

APPENDIX G  
LABORATORY REPORTS  
(CONTINUED)

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7 April 2009

Joy Dunay  
 Anchor Environmental, L.L.C.  
 1423 3<sup>rd</sup> Avenue, Suite 300  
 Seattle, WA 98101

Ph.: 206.287.9130 Email: [jdunay@anchorenv.com](mailto:jdunay@anchorenv.com)

Subject: Certificate of Results

Dear Joy;

Attached to this narrative are the analytical results you requested on the samples submitted for the determination of polychlorinated dibenzo-*p*-dioxins and dibenzofurans. The insert below summarizes the relevant information pertaining to your project. In particular, QC annotations bring to your attention specific analytical observations and assessments made during the sample handling and data interpretation phases. A brief description of the report's components is provided. Results are reported on a dry-weight basis and relate only to the items tested

Project Information Summary	When applicable, see QC Annotations for details
Client Project No.	080166-01
AP Project No.	P1193
Analytical Protocol	Method 1613B
No. Samples Submitted	11
No. Samples Analyzed	11
No. Laboratory Method Blanks	1
No. OPRs / Batch CS3	2
No. Outstanding Samples	0
Date Received	17-Mar-2009
Condition Received	Good
Temperature upon Receipt (C)	3
Extraction within Holding Time	yes
Analysis within Holding Time	yes
Data meet QA/QC Requirements	yes
Exceptions	see below
Analytical Difficulties	see below



**QC Annotations:**

1. A "J" data qualifier is used for analytes with a concentration below the reporting limit.
2. The new ratio – [Ra] -- for 2,3,7,8-TCDD following the  $^{37}\text{Cl}_4$ -2,3,7,8-TCDD correction is shown between squared brackets in the DL column.
3. An "\*" is assigned to target analytes with a concentration above the method's calibration curve. Results are considered estimates.

Analytical Perspectives remains committed to serving you in the most effective manner. Should you have any questions or need additional information and technical support, please do not hesitate to contact us. Thank you for choosing Analytical Perspectives as part of your analytical support team.

Sincerely,



Kimberly Mace Ph.D.  
Project Manager

The electronic version of this report contains 475 pages.  
(add one page in count for the NELAC compliance statement) (+1)

P1193

**ANALYTICAL PERSPECTIVES**

**Part 1**  
**Narrative**  
*24pgs*

- ✓ Letter
- ✓ QC Annotations
- ✓ Project Information

**ANALYTICAL PERSPECTIVES**

**Part 2**  
**Path**  
*13pgs*

- ✓ Overview
- ✓ Protocol
- ✓ Extraction
- ✓ Analysis
- ✓ Spike Profile
- ✓ SOPs
- ✓ QC
- ✓ Reporting
- ✓ Special Requirements

**Extraction**  
Tracking Sheets

**Fractionation**  
Tracking Sheets

**Injection**  
Tracking Sheets

**ANALYTICAL PERSPECTIVES**

**Part 3**  
**Results**  
*205pgs*

- ✓ Summary Topsheets
- ✓ Raw Data
- ✓ SICPs
- ✓ Areas
- ✓ Retention Times
- ✓ S/N
- ✓ Ion Abundance Ratios

**ANALYTICAL PERSPECTIVES**

**Part 4**  
**Performance**  
*52pgs*  
System Checks

- ✓ Mass Spectrometry
- ✓ Gas Chromatography
- ✓ Initial Calibration
- ✓ Continuing Calibration
- ✓ BCS<sub>3</sub>, OPR

**Part 4D**  
**ICAL**  
*115pgs*

**Part 4E**  
**OPR**  
*62pgs*

STATE CERTIFICATION ID #s	
ARIZONA	AZ0696
CALIFORNIA	01166CA
FLORIDA	E87608
LOUISIANA	4024
MICHIGAN	9951
NEW JERSEY	NC005
NEW YORK	11735
NORTH CAROLINA	37783
PENNSYLVANIA	37-1849
SOUTH CAROLINA	99054

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT FOR IN FULL  
WITHOUT THE ORIGINAL APPROVAL OF THE LABORATORY

Picture File *3pgs*

**P1193 - TEQ**  
Project ID: 080166-01

**Sample Summary**  
**Part 1 (dry weight)**



**Method 1613**

Analyte	0_6679 _MB001 pg/g	PO-BA- 24-SS-A 090313 pg/g	PO-BA- 25-SS-A 090316 pg/g	PO-BA- 26-SS-A 090316 pg/g	PO-BA- 27B-SS- A- 090313 pg/g	PO-UP- 20-SS-A 090313 pg/g	PO-UP- 21-SS-A 090313 pg/g	PO-UP- 22-SS-A 090313 pg/g	PO-UP- 23B-SS- A- 090313 pg/g	PO-AM- 28-SS-A 090313 pg/g	B1-C16- SS-A- 090313 pg/g	B1-S37- SS-A- 090313 pg/g
2,3,7,8-TCDD	(0.072)	(0.0901)	(0.0343)	(0.102)	(0.0939)	0.803	0.712	0.711	0.791	0.634	0.575	0.717
1,2,3,7,8-PeCDD	(0.128)	(0.142)	(0.168)	(0.1)	(0.0594)	4.39	3.51	4.44	4.91	3.28	3.18	3.28
1,2,3,4,7,8-HxCDD	(0.204)	(0.22)	(<0.245)	(0.127)	(0.214)	9.63	10.3	9.18	10.3	6.3	5.98	6.4
1,2,3,6,7,8-HxCDD	(0.212)	(<0.244)	0.776	(0.151)	(<0.241)	39.2	40.8	37.8	44.1	28.7	30.6	29.7
1,2,3,7,8,9-HxCDD	(0.214)	(0.259)	0.566	(0.149)	(0.23)	18.3	18	17.4	20.3	12.6	12.7	12.7
1,2,3,4,6,7,8-HpCDD	(0.0768)	4.57	26.1	1.99	2.77	1440	1990	944	1110	635	721	603
OCDD	(0.233)	43.1	209	19	26	15700	23100	8140	9630	5080	6590	4490
2,3,7,8-TCDF	(0.0562)	(0.0577)	(0.0377)	(0.0323)	(0.0479)	2.67	2.39	2.74	3.21	2.67	2.64	3.05
1,2,3,7,8-PeCDF	(0.0789)	(0.138)	(0.0607)	(0.0705)	(0.09)	2.81	2.36	3.03	3.33	2.44	2.57	2.61
2,3,4,7,8-PeCDF	(0.0692)	(0.124)	(<0.245)	(0.0653)	(0.0808)	5.48	5.25	6.21	7.97	5.01	5.05	5.15
1,2,3,4,7,8-HxCDF	(0.0885)	(0.0484)	(<0.245)	(0.122)	(<0.241)	14.5	14.1	16.6	20.6	12.1	12	11.9
1,2,3,6,7,8-HxCDF	(0.0859)	(0.0449)	(<0.245)	(0.113)	(0.0539)	6.93	6.24	7.26	8.17	5.49	5.59	5.77
2,3,4,6,7,8-HxCDF	(0.085)	(<0.244)	(<0.245)	(0.12)	(0.05)	10.1	9.46	10.4	12.7	7.96	8.06	8.6
1,2,3,7,8,9-HxCDF	(0.119)	(0.0658)	(0.051)	(0.165)	(0.0694)	2.71	2.62	[2.88]	3.8	2.25	2.45	2.46
1,2,3,4,6,7,8-HpCDF	(0.0448)	0.973	4.22	[0.325]	0.651	257	258	258	297	195	196	206
1,2,3,4,7,8,9-HpCDF	(0.0667)	(<0.244)	0.416	(0.104)	(0.104)	12	11.9	11.2	12.7	7.19	7.38	6.86
OCDF	(0.233)	1.8	16.6	[0.526]	2.23	842	869	669	787	410	363	346
ITEF TEQ (ND=0; EMPC=0)	0.00	0.10	0.667	0.0389	0.0625	49.9	62.1	37.3	44.3	26.6	29.0	26.1
ITEF TEQ (ND=0; EMPC=EMPC)	0.00	0.10	0.667	0.0427	0.0625	49.9	62.1	37.6	44.3	26.6	29.0	26.1
ITEF TEQ (ND=DL/2; EMPC=0)	0.142	0.276	0.842	0.183	0.205	49.9	62.1	37.3	44.3	26.6	29.0	26.1
ITEF TEQ (ND=DL/2; EMPC=EMPC)	0.142	0.276	0.842	0.186	0.205	49.9	62.1	37.6	44.3	26.6	29.0	26.1
ITEF TEQ (ND=DL; EMPC=EMPC)	0.283	0.451	1.02	0.33	0.347	49.9	62.1	37.6	44.3	26.6	29.0	26.1
Checkcode	1074 ✓	1408 ✓	1692 ✓	0702 ✓	2383 ✓	2775 ✓	1387 ✓	5119 ✓	5423 ✓	5672 ✓	5953 ✓	0245 ✓

( ) = DL  
[ ] = EMPC

*7 April 09*  
Reviewer *My*  
Date *02/04/09*



# P1193 - WFA 2005 TEF-TEQ

Project 080166-01

## Sample Summary Part 1 (dry weight)



Method 1613

Analyte	0_6679 _MB001 pg/g	PO-BA- 24-SS-A 090313 pg/g	PO-BA- 25-SS-A 090316 pg/g	PO-BA- 26-SS-A 090316 pg/g	PO-BA- 27B-SS- A- 090313 pg/g	PO-UP- 20-SS-A 090313 pg/g	PO-UP- 21-SS-A 090313 pg/g	PO-UP- 22-SS-A 090313 pg/g	PO-UP- 23B-SS- A- 090313 pg/g	PO-AM- 28-SS-A 090313 pg/g	B1-C16- SS-A- 090313 pg/g	B1-S37- SS-A- 090313 pg/g
2,3,7,8-TCDD	(0.072)	(0.0901)	(0.0343)	(0.102)	(0.0939)	0.803	0.712	0.711	0.791	0.634	0.575	0.717
1,2,3,7,8-PeCDD	(0.128)	(0.142)	(0.168)	(0.1)	(0.0594)	4.39	3.51	4.44	4.91	3.28	3.18	3.28
1,2,3,4,7,8-HxCDD	(0.204)	(0.22)	(<0.245)	(0.127)	(0.214)	9.63	10.3	9.18	10.3	6.3	5.98	6.4
1,2,3,6,7,8-HxCDD	(0.212)	(<0.244)	0.776	(0.151)	(<0.241)	39.2	40.8	37.8	44.1	28.7	30.6	29.7
1,2,3,7,8,9-HxCDD	(0.214)	(0.259)	0.566	(0.149)	(0.23)	18.3	18	17.4	20.3	12.6	12.7	12.7
1,2,3,4,6,7,8-HpCDD	(0.0768)	4.57	26.1	1.99	2.77	1440	1990	944	1110	635	721	603
OCDD	(0.233)	43.1	209	19	26	15700	23100	8140	9630	5080	6590	4490
2,3,7,8-TCDF	(0.0562)	(0.0577)	(0.0377)	(0.0323)	(0.0479)	2.67	2.39	2.74	3.21	2.67	2.64	3.05
1,2,3,7,8-PeCDF	(0.0789)	(0.138)	(0.0607)	(0.0705)	(0.09)	2.81	2.36	3.03	3.33	2.44	2.57	2.61
2,3,4,7,8-PeCDF	(0.0692)	(0.124)	(<0.245)	(0.0653)	(0.0808)	5.48	5.25	6.21	7.97	5.01	5.05	5.15
1,2,3,4,7,8-HxCDF	(0.0885)	(0.0484)	(<0.245)	(0.122)	(<0.241)	14.5	14.1	16.6	20.6	12.1	12	11.9
1,2,3,6,7,8-HxCDF	(0.0859)	(0.0449)	(<0.245)	(0.113)	(0.0539)	6.93	6.24	7.26	8.17	5.49	5.59	5.77
2,3,4,6,7,8-HxCDF	(0.085)	(<0.244)	(<0.245)	(0.12)	(0.05)	10.1	9.46	10.4	12.7	7.96	8.06	8.6
1,2,3,7,8,9-HxCDF	(0.119)	(0.0658)	(0.051)	(0.165)	(0.0694)	2.71	2.62	[2.88]	3.8	2.25	2.45	2.46
1,2,3,4,6,7,8-HpCDF	(0.0448)	0.973	4.22	[0.325]	0.651	257	258	258	297	195	196	206
1,2,3,4,7,8,9-HpCDF	(0.0667)	(<0.244)	0.416	(0.104)	(0.104)	12	11.9	11.2	12.7	7.19	7.38	6.86
OCDF	(0.233)	1.8	16.6	[0.526]	2.23	842	869	669	787	410	363	346
WHO 2005 TEF TEQ (ND=0; EMPC=0)	0.00	0.0689	0.509	0.0256	0.0427	39.3	46.0	32.0	37.8	23.3	24.7	23.3
WHO 2005 TEF TEQ (ND=0; EMPC=EMPC)	0.00	0.0689	0.509	0.029	0.0427	39.3	46.0	32.3	37.8	23.3	24.7	23.3
WHO 2005 TEF TEQ (ND=DL/2; EMPC=0)	0.166	0.266	0.702	0.187	0.191	39.3	46.0	32.0	37.8	23.3	24.7	23.3
WHO 2005 TEF TEQ (ND=DL/2; EMPC=EMPC)	0.166	0.266	0.702	0.190	0.191	39.3	46.0	32.3	37.8	23.3	24.7	23.3
WHO 2005 TEF TEQ (ND=DL; EMPC=EMPC)	0.332	0.463	0.894	0.352	0.339	39.3	46.0	32.3	37.8	23.3	24.7	23.3
Checkcode	1074	1408	1692	0702	2383	2775	1387	5119	5423	5672	5953	0245

( ) = DL  
[ ] = EMPC

7 April 09

Reviewer  
Date

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# P1193 - Totals

Project ID: 080166-01

## Sample Summary Part 2 (dry weight)



## Method 1613

Analyte	0_6679 MB001 pg/g	PO-BA- 24-SS-A 090313 pg/g	PO-BA- 25-SS-A 090316 pg/g	PO-BA- 26-SS-A 090316 pg/g	PO-BA- 27B-SS- A- 090313 pg/g	PO-UP- 20-SS-A 090313 pg/g	PO-UP- 21-SS-A 090313 pg/g	PO-UP- 22-SS-A 090313 pg/g	PO-UP- 23B-SS- A- 090313 pg/g	PO-AM- 28-SS-A 090313 pg/g	B1-C16- SS-A- 090313 pg/g	B1-S37- SS-A- 090313 pg/g
<b>Totals</b>												
TCDDs	0	0.161	0	0.104	0	26.8	18.7	27.6	27.2	26.5	25.1	29.2
PeCDDs	0	0	0	0	0	57.2	52.5	57.1	52.2	51.6	51.3	57.6
HxCDDs	0	2.01	1.59	0	0.324	564	860	380	428	282	322	284
HpCDDs	0	16.9	55	7.18	6.78	6420	11200	2710	3120	1600	2350	1420
OCDD	0	43.1	209	19	26	15700	23100	8140	9630	5080	6590	4490
TCDFs	0	0	0	0.0815	0	36.2	32.5	43.2	46.3	35.7	37.7	40.3
PeCDFs	0	0	0	0	0	69.6	63.9	76.9	90.1	62.9	63	64.2
HxCDFs	0	0.613	3.19	0	0.396	289	287	299	373	240	249	254
HpCDFs	0	2.79	13.9	0.598	2	835	879	756	904	535	547	555
OCDF	0	1.8	16.6	0	2.23	842	869	669	787	410	363	346
<b>Total PCDD/Fs (ND=0; EMPC=0)</b>	<b>0.00</b>	<b>67.4</b>	<b>299</b>	<b>26.9</b>	<b>37.8</b>	<b>24,800</b>	<b>37,400</b>	<b>13,200</b>	<b>15,500</b>	<b>8,330</b>	<b>10,600</b>	<b>7,540</b>
<b>Total PCDD/Fs (ND=0; EMPC=EMPC)</b>	<b>0.00</b>	<b>68.0</b>	<b>304</b>	<b>29.0</b>	<b>38.8</b>	<b>24,900</b>	<b>37,400</b>	<b>13,200</b>	<b>15,500</b>	<b>8,330</b>	<b>10,600</b>	<b>7,550</b>
<b>Total PCDD/Fs (2378-X ND=DL; EMPC=EMPC)</b>	<b>2.07</b>	<b>69.2</b>	<b>304</b>	<b>30.5</b>	<b>39.9</b>	<b>24,900</b>	<b>37,400</b>	<b>13,200</b>	<b>15,500</b>	<b>8,330</b>	<b>10,600</b>	<b>7,550</b>
<b>Total 2378s (ND=0; EMPC=0)</b>	<b>0.00</b>	<b>50.4</b>	<b>258</b>	<b>21.0</b>	<b>31.7</b>	<b>18,400</b>	<b>26,300</b>	<b>10,100</b>	<b>12,000</b>	<b>6,420</b>	<b>7,970</b>	<b>5,750</b>
<b>Total 2378s (ND=0.5; EMPC=0)</b>	<b>1.03</b>	<b>51.4</b>	<b>258</b>	<b>21.8</b>	<b>32.5</b>	<b>18,400</b>	<b>26,300</b>	<b>10,100</b>	<b>12,000</b>	<b>6,420</b>	<b>7,970</b>	<b>5,750</b>
<b>Total 2378s (ND=1; EMPC=0)</b>	<b>2.07</b>	<b>52.3</b>	<b>259</b>	<b>22.5</b>	<b>33.3</b>	<b>18,400</b>	<b>26,300</b>	<b>10,100</b>	<b>12,000</b>	<b>6,420</b>	<b>7,970</b>	<b>5,750</b>
<b>Total 2378s (ND=0; EMPC=1)</b>	<b>0.00</b>	<b>50.4</b>	<b>258</b>	<b>21.8</b>	<b>31.7</b>	<b>18,400</b>	<b>26,300</b>	<b>10,100</b>	<b>12,000</b>	<b>6,420</b>	<b>7,970</b>	<b>5,750</b>
<b>Total 2378s (ND=0.5; EMPC=1)</b>	<b>1.03</b>	<b>51.4</b>	<b>258</b>	<b>22.5</b>	<b>32.5</b>	<b>18,400</b>	<b>26,300</b>	<b>10,100</b>	<b>12,000</b>	<b>6,420</b>	<b>7,970</b>	<b>5,750</b>
<b>Total 2378s (ND=1; EMPC=1)</b>	<b>2.07</b>	<b>52.3</b>	<b>259</b>	<b>23.2</b>	<b>33.3</b>	<b>18,400</b>	<b>26,300</b>	<b>10,100</b>	<b>12,000</b>	<b>6,420</b>	<b>7,970</b>	<b>5,750</b>
Checkcode	1074 ✓	1408 ✓	1692 ✓	0702 ✓	2383 ✓	2775 ✓	1387 ✓	5119 ✓	5423 ✓	5672 ✓	5953 ✓	0245 ✓

Total 2378s = Sum of 17 2378-substituted PCDD/PCDF congeners (SARA 313)

( ) = DL  
[ ] = EMPC

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7 April 01

Reviewer  
Date

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**Sample Summary**  
**Part 3 (dry weight)**



**Method 1613**

Analyte	0_6679 _MB001 pg/g	PO-BA- 24-SS-A 090313 pg/g	PO-BA- 25-SS-A 090316 pg/g	PO-BA- 26-SS-A 090316 pg/g	PO-BA- 27B-SS- A- 090313 pg/g	PO-UP- 20-SS-A 090313 pg/g	PO-UP- 21-SS-A 090313 pg/g	PO-UP- 22-SS-A 090313 pg/g	PO-UP- 23B-SS- A- 090313 pg/g	PO-AM- 28-SS-A 090313 pg/g	B1-C16- SS-A- 090313 pg/g	B1-S37- SS-A- 090313 pg/g
<b>Other PCDD/Fs (ND=0, EMPC=0)</b>												
Other TCDD	0	0.161	0	0.104	0	26	18	26.8	26.4	25.8	24.5	28.5
Other PeCDD	0	0	0	0	0	52.8	49	52.7	47.3	48.3	48.1	54.3
Other HxCDD	0	1.81	0.247	0	0.324	497	791	316	354	235	272	236
Other HpCDD	0	12.4	28.9	5.19	4.01	4990	9240	1760	2010	962	1630	813
Other TCDF	0	0	0	0.0815	0	33.6	30.1	40.5	43.1	33	35.1	37.3
Other PeCDF	0	0	0	0	0	61.3	56.3	67.7	78.8	55.5	55.4	56.5
Other HxCDF	0	0.541	2.76	0	0.396	255	255	265	327	213	221	226
Other HpCDF	0	1.73	9.31	0.598	1.35	565	609	486	594	333	344	342
<b>Other PCDD/Fs (ND=0, EMPC=EMPC)</b>												
Other TCDD	0	0.256	0.228	0.26	0.11	28.1	20.1	28.2	27.5	28.2	25.4	29.5
Other PeCDD	0	0	0	0	0	53.7	49	52.7	52.8	48.3	48.1	55.4
Other HxCDD	0	1.81	3.16	0.663	0.718	497	791	316	354	235	272	239
Other HpCDD	0	12.4	28.9	5.19	4.01	4990	9240	1760	2010	962	1630	813
Other TCDF	0	0	0	0.176	0	35.4	32.1	40.6	43.2	36.3	35.1	38.8
Other PeCDF	0	0.119	0.333	0.0367	0.0627	62.2	56.3	68	79	55.8	55.6	56.5
Other HxCDF	0	0.976	3.13	0.311	0.723	256	256	269	329	214	222	227
Other HpCDF	0	1.73	9.44	0.598	1.35	565	609	486	594	333	344	342
Checkcode	✓ 1074	✓ 1408	✓ 1692	✓ 0702	✓ 2383	✓ 2775	✓ 1387	✓ 5119	✓ 5423	✓ 5672	✓ 5953	✓ 0245

( ) = DL  
 [ ] = EMPC

*7 April 09*

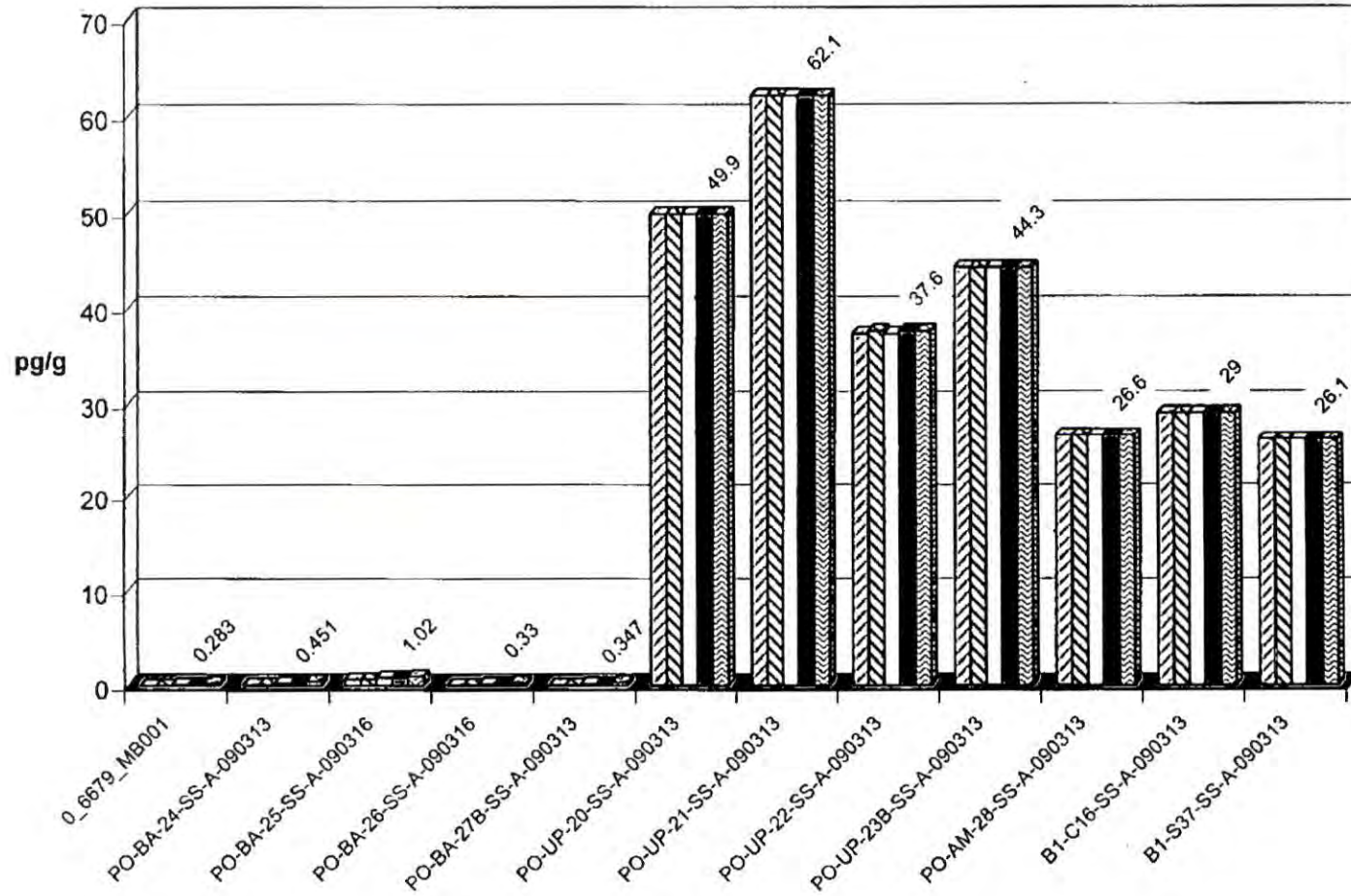
Reviewer  
 Date

*[Signature]*



**ITEF-TEQ**  
**Project ID: 080166-01**  
**P1193**

- ND=0; EMPC=0
- ▨ ND=0; EMPC=EMPC
- ND=DL/2; EMPC=0
- ND=DL/2; EMPC=EMPC
- ▩ ND=DL; EMPC=EMPC

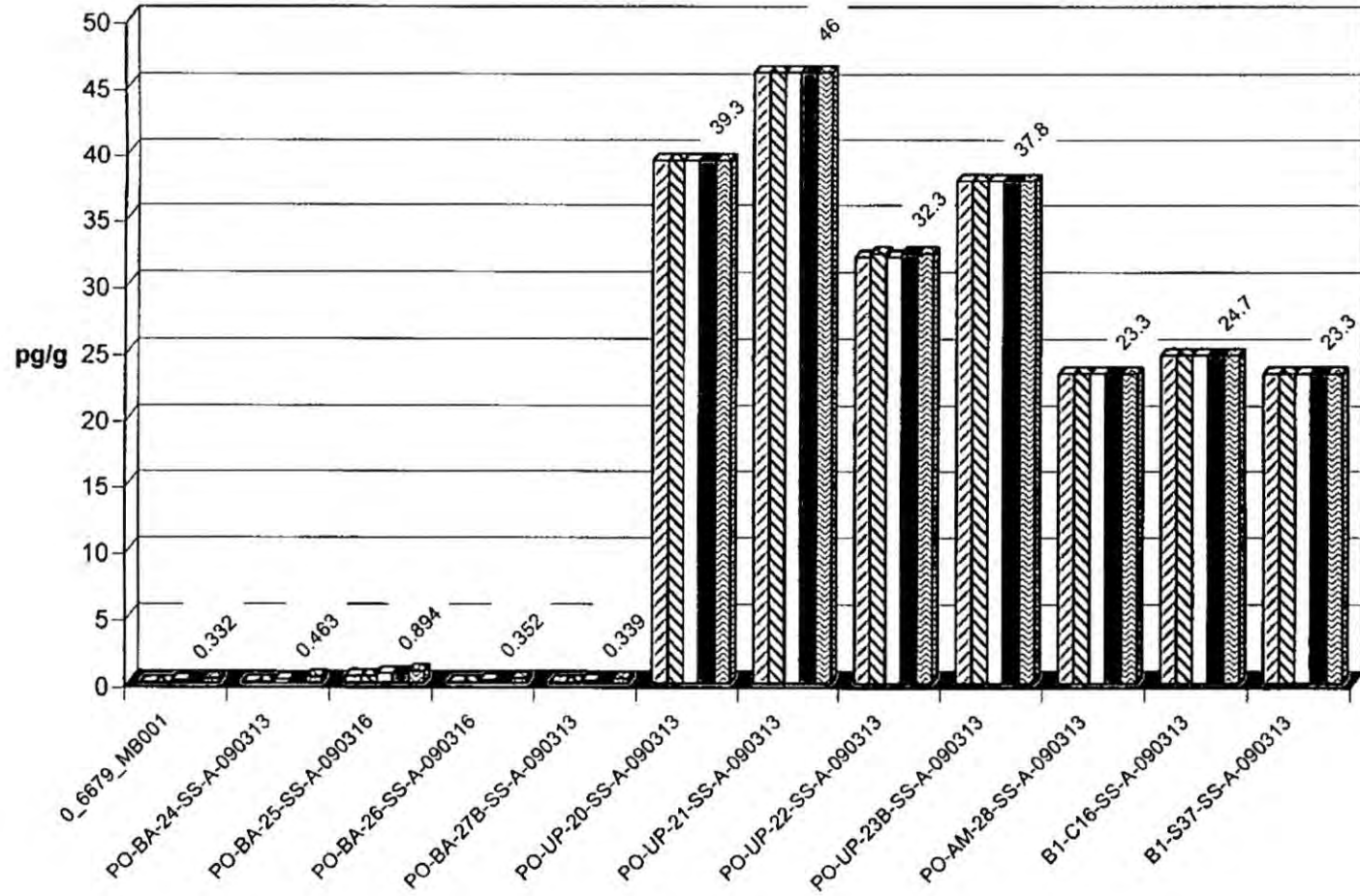


# WHO 2005 TEF-TEQ

Project ID: 080166-01

P1193

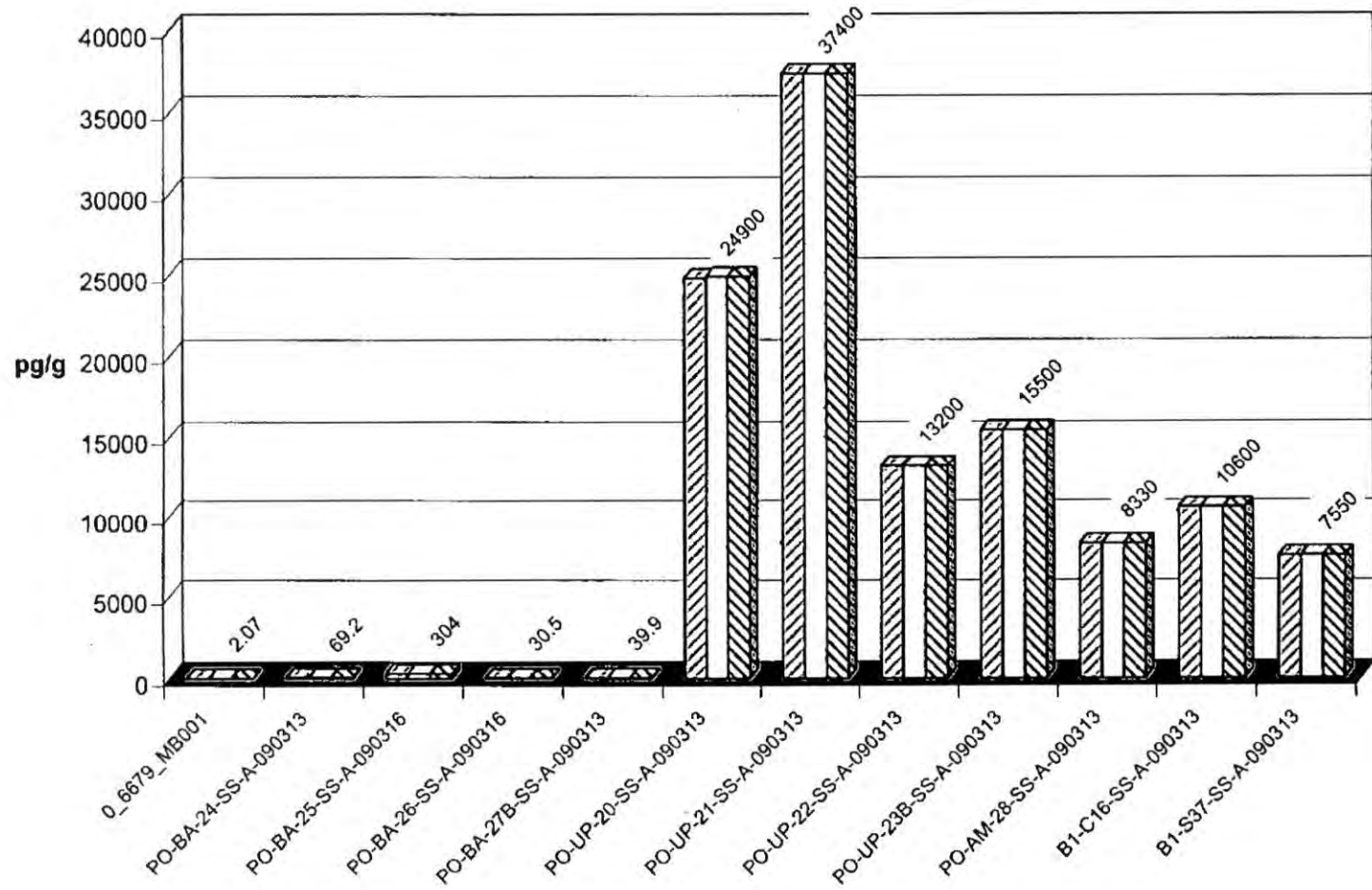
- ND=0; EMPC=0
- ▨ ND=0; EMPC=EMPC
- ND=DL/2; EMPC=0
- ND=DL/2; EMPC=EMPC
- ▩ ND=DL; EMPC=EMPC





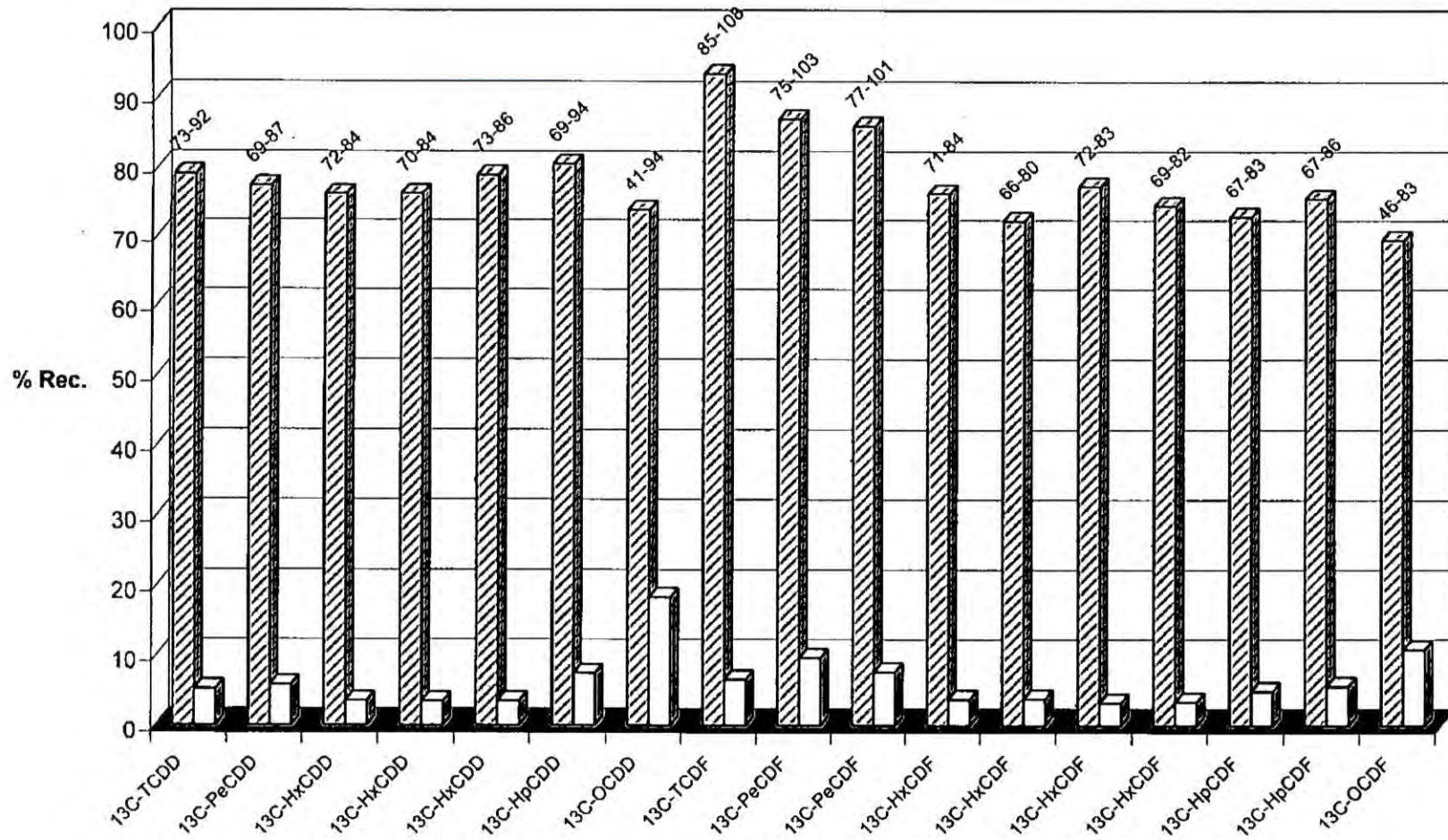
**Totals**  
**Project ID: 080166-01**  
**P1193**

- ▨ Total PCDD/Fs (ND=0; EMPC=0)
- Total PCDD/Fs (ND=0; EMPC=EMPC)
- ▩ Total PCDD/Fs (2378-X ND=DL; EMPC=EMPC)



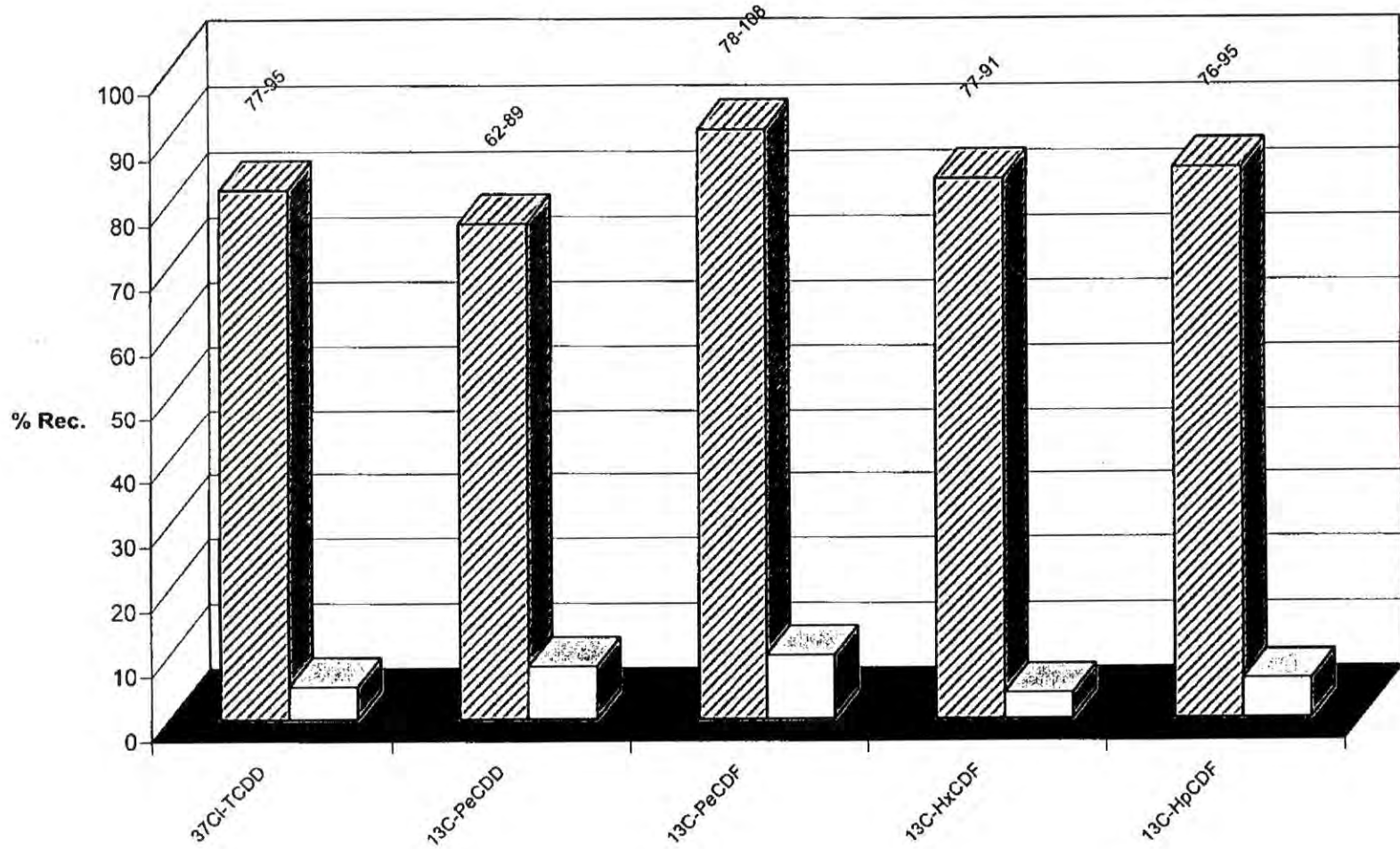
**Mean Recoveries of Extraction Standards (N=12)**  
**Project ID: 080166-01**  
**P1193**

Mean
  Std. Dev.



Mean Recoveries of Clean-Up Standards (N=12)  
Project ID: 080166-01  
P1193

▨ Mean    □ Std. Dev.





Client Data		Sample Data		Laboratory Data				
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1193 ✓	Date Received:	n/a	
Project ID:	080166-01	Weight/Volume:	10.12 g ✓	Sample ID:	MB1_6679_DF_SDS	Date Extracted:	19 Mar 09	
Date Collected:	n/a	% Solids:	n/a	QC Batch No.:	6679	Date Analyzed:	25 Mar 09	
		Split:	-	Dilution:	-	Time Analyzed:	16:50:24 ✓	
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers	
2,3,7,8-TCDD	ND	0.072			13C-2,3,7,8-TCDD	72.8	<i>ok 7 April 09</i>	
1,2,3,7,8-PeCDD	ND	0.128			13C-1,2,3,7,8-PeCDD	72.3		
1,2,3,4,7,8-HxCDD	ND	0.204			13C-1,2,3,4,7,8-HxCDD	78		
1,2,3,6,7,8-HxCDD	ND	0.212			13C-1,2,3,6,7,8-HxCDD	78.4		
1,2,3,7,8,9-HxCDD	ND	0.214			13C-1,2,3,7,8,9-HxCDD	79.9		
1,2,3,4,6,7,8-HpCDD	ND	0.0768			13C-1,2,3,4,6,7,8-HpCDD	76.6		
OCDD	ND	0.233			13C-OCDD	60.9		
2,3,7,8-TCDF	ND	0.0562			13C-2,3,7,8-TCDF	85.4		
1,2,3,7,8-PeCDF	ND	0.0789			13C-1,2,3,7,8-PeCDF	74.9		
2,3,4,7,8-PeCDF	ND	0.0692			13C-2,3,4,7,8-PeCDF	78.6		
1,2,3,4,7,8-HxCDF	ND	0.0885			13C-1,2,3,4,7,8-HxCDF	74.7		
1,2,3,6,7,8-HxCDF	ND	0.0859			13C-1,2,3,6,7,8-HxCDF	70.2		
2,3,4,6,7,8-HxCDF	ND	0.085			13C-2,3,4,6,7,8-HxCDF	80.1		
1,2,3,7,8,9-HxCDF	ND	0.119			13C-1,2,3,7,8,9-HxCDF	73.4		
1,2,3,4,6,7,8-HpCDF	ND	0.0448			13C-1,2,3,4,6,7,8-HpCDF	71.3		
1,2,3,4,7,8,9-HpCDF	ND	0.0667			13C-1,2,3,4,7,8,9-HpCDF	72.7		
OCDF	ND	0.233			13C-OCDF	63.6		
Totals						CS Recoveries		
TCDDs	ND	0.072			37Cl-2,3,7,8-TCDD	76.8		
PeCDDs	ND	0.128			13C-1,2,3,4,7-PeCDD	65		
HxCDDs	ND	0.21			13C-1,2,3,4,6-PeCDF	80.5		
HpCDDs	ND	0.0768			13C-1,2,3,4,6,9-HxCDF	82.9		
					13C-1,2,3,4,6,8,9-HpCDF	81.7		
TCDFs	ND	0.0562				<b>AS Recoveries</b>		
PeCDFs	ND	0.0738						
HxCDFs	ND	0.0934			13C-1,3,6,8-TCDD			64.6
HpCDFs	ND	0.0544			13C-1,3,6,8-TCDF			80.5
<b>Total PCDD/Fs</b>	<b>0</b>		<b>0</b>					
<b>ITEF TEQs</b>								
TEQ: ND=0	0		0					
TEQ: ND=DL/2	0.142		0.142					
TEQ: ND=DL	0.283		0.283					

**ANALYTICAL PERSPECTIVES**  
 Tel: +1 910 794-1613; Toll-Free 866 846-8290  
 Fax: +1 910 794-3919

2714 Exchange Drive  
 Wilmington, NC 28405  
 USA  
 info@ultratrace.com  
 www.ultratrace.com

Checkcode: 1074

AP 2008 Rev/H

*Handwritten:*  
 7 April 09

Reviewer: *[Signature]*  
 Date: *[Signature]*

# Sample ID: PO-BA-24-SS-A-090313

# Method 1613

Client Data		Sample Data		Laboratory Data			
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1193	Date Received:	17 Mar 09
Project ID:	080166-01	Weight/Volume:	10.26 g	Sample ID:	P1193_6679_001	Date Extracted:	19 Mar 09
Date Collected:	13 Mar 09	% Solids:	84.2 %	QC Batch No.:	6679	Date Analyzed:	25 Mar 09
		Split:	-	Dilution:	-	Time Analyzed:	17:40:33
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	ND	0.0901			13C-2,3,7,8-TCDD	73.3	ok 7 April 09
1,2,3,7,8-PeCDD	ND	0.142			13C-1,2,3,7,8-PeCDD	69.1	
1,2,3,4,7,8-HxCDD	ND	0.22			13C-1,2,3,4,7,8-HxCDD	74.9	
1,2,3,6,7,8-HxCDD	ND	<0.244			13C-1,2,3,6,7,8-HxCDD	72.5	
1,2,3,7,8,9-HxCDD	ND	0.259			13C-1,2,3,7,8,9-HxCDD	73.4	
1,2,3,4,6,7,8-HpCDD	4.57				13C-1,2,3,4,6,7,8-HpCDD	72	
OCDD	43.1				13C-OCDD	61.1	
2,3,7,8-TCDF	ND	0.0577			13C-2,3,7,8-TCDF	85.5	
1,2,3,7,8-PeCDF	ND	0.138			13C-1,2,3,7,8-PeCDF	78.2	
2,3,4,7,8-PeCDF	ND	0.124			13C-2,3,4,7,8-PeCDF	78.2	
1,2,3,4,7,8-HxCDF	ND	0.0484			13C-1,2,3,4,7,8-HxCDF	73.5	
1,2,3,6,7,8-HxCDF	ND	0.0449			13C-1,2,3,6,7,8-HxCDF	72.5	
2,3,4,6,7,8-HxCDF	ND	<0.244			13C-2,3,4,6,7,8-HxCDF	75.8	
1,2,3,7,8,9-HxCDF	ND	0.0658			13C-1,2,3,7,8,9-HxCDF	71.1	
1,2,3,4,6,7,8-HpCDF	0.973			J	13C-1,2,3,4,6,7,8-HpCDF	70.9	
1,2,3,4,7,8,9-HpCDF	ND	<0.244			13C-1,2,3,4,7,8,9-HpCDF	70.8	
OCDF	1.8			J	13C-OCDF	63.3	
Totals						CS Recoveries	
TCDDs	0.161		0.256		37Cl-2,3,7,8-TCDD	77.9	
PeCDDs	ND	0.142			13C-1,2,3,4,7-PeCDD	76.3	
HxCDDs	2.01				13C-1,2,3,4,6-PeCDF	85.9	
HpCDDs	16.9				13C-1,2,3,4,6,9-HxCDF	82.9	
					13C-1,2,3,4,6,8,9-HpCDF	81	
TCDFs	ND	0.0577					
PeCDFs	ND		0.119			<b>AS Recoveries</b>	
HxCDFs	0.613		1.05		13C-1,3,6,8-TCDD	74.5	
HpCDFs	2.79				13C-1,3,6,8-TCDF	95.1	
<b>Total PCDD/Fs</b>	<b>67.4</b>		<b>68</b>				
<b>ITEF TEQs</b>							
TEQ: ND=0	0.1		0.1				
TEQ: ND=DL/2	0.276		0.276				
TEQ: ND=DL	0.451		0.451				

Checkcode: 1408




Tel: +1 910 794-1613; Toll-Free 866 846-8290  
 Fax: +1 910 794-3919

2714 Exchange Drive  
 Wilmington, NC 28405  
 USA  
 info@ultratrace.com  
 www.ultratrace.com

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7 April 09  
 Reviewer: [Signature]  
 Date: [Signature]



Client Data		Sample Data		Laboratory Data			
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1193 ✓	Date Received:	17 Mar 09
Project ID:	080166-01	Weight/Volume:	10.21 g ✓	Sample ID:	P1193_6679_002	Date Extracted:	19 Mar 09
Date Collected:	16 Mar 09	% Solids:	86.6 %	QC Batch No.:	6679	Date Analyzed:	25 Mar 09
		Split:	-	Dilution:	-	Time Analyzed:	18:30:42 ✓
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	ND	0.0343			13C-2,3,7,8-TCDD	78.4	<i>ok</i> <i>7 April 09</i>
1,2,3,7,8-PeCDD	ND	0.168			13C-1,2,3,7,8-PeCDD	73.2	
1,2,3,4,7,8-HxCDD	ND	<0.245			13C-1,2,3,4,7,8-HxCDD	76.6	
1,2,3,6,7,8-HxCDD	0.776			J	13C-1,2,3,6,7,8-HxCDD	76.2	
1,2,3,7,8,9-HxCDD	0.566			J	13C-1,2,3,7,8,9-HxCDD	80	
1,2,3,4,6,7,8-HpCDD	26.1				13C-1,2,3,4,6,7,8-HpCDD	74.9	
OCDD	209				13C-OCDD	66.2	
2,3,7,8-TCDF	ND	0.0377			13C-2,3,7,8-TCDF	89.3	
1,2,3,7,8-PeCDF	ND	0.0607			13C-1,2,3,7,8-PeCDF	76.4	
2,3,4,7,8-PeCDF	ND	<0.245			13C-2,3,4,7,8-PeCDF	78.6	
1,2,3,4,7,8-HxCDF	ND	<0.245			13C-1,2,3,4,7,8-HxCDF	75.2	
1,2,3,6,7,8-HxCDF	ND	<0.245			13C-1,2,3,6,7,8-HxCDF	69	
2,3,4,6,7,8-HxCDF	ND	<0.245			13C-2,3,4,6,7,8-HxCDF	78.6	
1,2,3,7,8,9-HxCDF	ND	0.051			13C-1,2,3,7,8,9-HxCDF	74.4	
1,2,3,4,6,7,8-HpCDF	4.22				13C-1,2,3,4,6,7,8-HpCDF	71	
1,2,3,4,7,8,9-HpCDF	0.416			J	13C-1,2,3,4,7,8,9-HpCDF	72.4	
OCDF	16.6				13C-OCDF	68.1	
Totals						CS Recoveries	
TCDDs	ND		0.228		37Cl-2,3,7,8-TCDD	84	
PeCDDs	ND	0.168			13C-1,2,3,4,7-PeCDD	67.3	
HxCDDs	1.59		4.75		13C-1,2,3,4,6-PeCDF	83.1	
HpCDDs	55				13C-1,2,3,4,6,9-HxCDF	88.1	
					13C-1,2,3,4,6,8,9-HpCDF	83.6	
TCDFs	ND	0.0377					
PeCDFs	ND		0.366			<b>AS Recoveries</b>	
HxCDFs	3.19		3.69		13C-1,3,6,8-TCDD	71.1	
HpCDFs	13.9		14.1		13C-1,3,6,8-TCDF	89	
<b>Total PCDD/Fs</b>	<b>299</b>		<b>304</b>				
<b>ITEF TEQs</b>					 2714 Exchange Drive Wilmington, NC 28405 USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 info@ultratrace.com www.ultratrace.com		
TEQ: ND=0	0.667		0.667				
TEQ: ND=DL/2	0.842		0.842				
TEQ: ND=DL	1.02		1.02				

Checkcode: 1692

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 Date: *7 April 09*

# Sample ID: PO-BA-26-SS-A-090316

# Method 1613

Client Data		Sample Data		Laboratory Data			
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1193	Date Received:	17 Mar 09
Project ID:	080166-01	Weight/Volume:	10.48 g	Sample ID:	P1193_6679_003	Date Extracted:	19 Mar 09
Date Collected:	16 Mar 09	% Solids:	84.5 %	QC Batch No.:	6679	Date Analyzed:	25 Mar 09
		Split:	-	Dilution:	-	Time Analyzed:	19:20:51

Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	ND	0.102			13C-2,3,7,8-TCDD	75.1	<i>ok 7 April 09</i>
1,2,3,7,8-PeCDD	ND	0.1			13C-1,2,3,7,8-PeCDD	70.5	
1,2,3,4,7,8-HxCDD	ND	0.127			13C-1,2,3,4,7,8-HxCDD	71.6	
1,2,3,6,7,8-HxCDD	ND	0.151			13C-1,2,3,6,7,8-HxCDD	69.9	
1,2,3,7,8,9-HxCDD	ND	0.149			13C-1,2,3,7,8,9-HxCDD	72.9	
1,2,3,4,6,7,8-HpCDD	1.99			J	13C-1,2,3,4,6,7,8-HpCDD	69.4	
OCDD	19				13C-OCDD	56.2	
2,3,7,8-TCDF	ND	0.0323			13C-2,3,7,8-TCDF	85.9	
1,2,3,7,8-PeCDF	ND	0.0705			13C-1,2,3,7,8-PeCDF	79	
2,3,4,7,8-PeCDF	ND	0.0653			13C-2,3,4,7,8-PeCDF	77.4	
1,2,3,4,7,8-HxCDF	ND	0.122			13C-1,2,3,4,7,8-HxCDF	70.6	
1,2,3,6,7,8-HxCDF	ND	0.113			13C-1,2,3,6,7,8-HxCDF	69.9	
2,3,4,6,7,8-HxCDF	ND	0.12			13C-2,3,4,6,7,8-HxCDF	72.3	
1,2,3,7,8,9-HxCDF	ND	0.165			13C-1,2,3,7,8,9-HxCDF	68.8	
1,2,3,4,6,7,8-HpCDF	EMPC		0.325	J	13C-1,2,3,4,6,7,8-HpCDF	67.9	
1,2,3,4,7,8,9-HpCDF	ND	0.104			13C-1,2,3,4,7,8,9-HpCDF	67.4	
OCDF	EMPC		0.526	J	13C-OCDF	60.3	

Totals						CS Recoveries	
TCDDs	0.104		0.26		37Cl-2,3,7,8-TCDD	76.8	
PeCDDs	ND	0.1			13C-1,2,3,4,7-PeCDD	74.6	
HxCDDs	ND		0.663		13C-1,2,3,4,6-PeCDF	82.3	
HpCDDs	7.18				13C-1,2,3,4,6,9-HxCDF	76.6	
					13C-1,2,3,4,6,8,9-HpCDF	75.8	
TCDFs	0.0815		0.176				
PeCDFs	ND		0.0367			<b>AS Recoveries</b>	
HxCDFs	ND		0.311		13C-1,3,6,8-TCDD	69.1	
HpCDFs	0.598		0.924		13C-1,3,6,8-TCDF	87.5	
<b>Total PCDD/Fs</b>	<b>26.9</b>		<b>29</b>				

ITEF TEQs				ANALYTICAL PERSPECTIVES		2714 Exchange Drive
TEQ: ND=0	0.0389		0.0427	Wilmington, NC 28405		USA
TEQ: ND=DL/2	0.183		0.186	Tel: +1 910 794-1613; Toll-Free 866 846-8290		info@ultratrace.com
TEQ: ND=DL	0.327		0.33	Fax: +1 910 794-3919		www.ultratrace.com

Checkcode: 0702

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*ok  
7 April 09*  
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Date: *[Signature]*



Client Data		Sample Data		Laboratory Data			
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1193 ✓	Date Received:	17 Mar 09
Project ID:	080166-01	Weight/Volume:	10.37 g ✓	Sample ID:	P1193_6679_004	Date Extracted:	19 Mar 09
Date Collected:	13 Mar 09	% Solids:	83.6 %	QC Batch No.:	6679	Date Analyzed:	25 Mar 09
		Split:	-	Dilution:	-	Time Analyzed:	20:11:01 ✓

Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	ND	0.0939			13C-2,3,7,8-TCDD	79.3	ok 7 April 09
1,2,3,7,8-PeCDD	ND	0.0594			13C-1,2,3,7,8-PeCDD	76.1	
1,2,3,4,7,8-HxCDD	ND	0.214			13C-1,2,3,4,7,8-HxCDD	78.1	
1,2,3,6,7,8-HxCDD	ND	<0.241			13C-1,2,3,6,7,8-HxCDD	76.9	
1,2,3,7,8,9-HxCDD	ND	0.23			13C-1,2,3,7,8,9-HxCDD	80.2	
1,2,3,4,6,7,8-HpCDD	2.77				13C-1,2,3,4,6,7,8-HpCDD	74.4	
OCDD	26				13C-OCDD	58.7	
2,3,7,8-TCDF	ND	0.0479			13C-2,3,7,8-TCDF	92.8	
1,2,3,7,8-PeCDF	ND	0.09			13C-1,2,3,7,8-PeCDF	77.3	
2,3,4,7,8-PeCDF	ND	0.0808			13C-2,3,4,7,8-PeCDF	81	
1,2,3,4,7,8-HxCDF	ND	<0.241			13C-1,2,3,4,7,8-HxCDF	76.7	
1,2,3,6,7,8-HxCDF	ND	0.0539			13C-1,2,3,6,7,8-HxCDF	66	
2,3,4,6,7,8-HxCDF	ND	0.05			13C-2,3,4,6,7,8-HxCDF	78.3	
1,2,3,7,8,9-HxCDF	ND	0.0694			13C-1,2,3,7,8,9-HxCDF	75	
1,2,3,4,6,7,8-HpCDF	0.651			J	13C-1,2,3,4,6,7,8-HpCDF	72.3	
1,2,3,4,7,8,9-HpCDF	ND	0.104			13C-1,2,3,4,7,8,9-HpCDF	71.9	
OCDF	2.23			J	13C-OCDF	63.7	

Totals				CS Recoveries			
TCDDs	ND		0.11		37Cl-2,3,7,8-TCDD	83.3	
PeCDDs	ND	0.0594			13C-1,2,3,4,7-PeCDD	62.5	
HxCDDs	0.324		0.802		13C-1,2,3,4,6-PeCDF	78	
HpCDDs	6.78				13C-1,2,3,4,6,9-HxCDF	85.2	
					13C-1,2,3,4,6,8,9-HpCDF	80.5	
TCDFs	ND	0.0479					
PeCDFs	ND		0.0627				AS Recoveries
HxCDFs	0.396		0.758		13C-1,3,6,8-TCDD	75.1	
HpCDFs	2				13C-1,3,6,8-TCDF	94.3	

Total PCDD/Fs				ANALYTICAL PERSPECTIVES			
	37.8		38.8	 ANALYTICAL PERSPECTIVES 2714 Exchange Drive Wilmington, NC 28405 USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 info@ultratrace.com www.ultratrace.com			
ITEF TEQs							
TEQ: ND=0	0.0625		0.0625				
TEQ: ND=DL/2	0.205		0.205				
TEQ: ND=DL	0.347		0.347				

Checkcode: 2383

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7 April 09  
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 Date: *[Signature]*



# Sample ID: PO-UP-20-SS-A-090313

# Method 1613

Client Data		Sample Data		Laboratory Data		Date Received: 17 Mar 09	
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1193	Date Received:	17 Mar 09
Project ID:	080166-01	Weight/Volume:	10.07 g	Sample ID:	P1193_6679_005	Date Extracted:	19 Mar 09
Date Collected:	13 Mar 09	% Solids:	26.7 %	QC Batch No.:	6679	Date Analyzed:	25 Mar 09
		Split:	-	Dilution:	-	Time Analyzed:	21:01:10

Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	0.803	[Ra=0.749]			13C-2,3,7,8-TCDD	75.6	<i>ok</i> <i>7 April 09</i>
1,2,3,7,8-PeCDD	4.39				13C-1,2,3,7,8-PeCDD	74.6	
1,2,3,4,7,8-HxCDD	9.63				13C-1,2,3,4,7,8-HxCDD	75.2	
1,2,3,6,7,8-HxCDD	39.2				13C-1,2,3,6,7,8-HxCDD	75.6	
1,2,3,7,8,9-HxCDD	18.3				13C-1,2,3,7,8,9-HxCDD	79	
1,2,3,4,6,7,8-HpCDD	1,440			*	13C-1,2,3,4,6,7,8-HpCDD	84.9	
OCDD	15,700				13C-OCDD	93.1	
2,3,7,8-TCDF	2.67				13C-2,3,7,8-TCDF	93.6	
1,2,3,7,8-PeCDF	2.81				13C-1,2,3,7,8-PeCDF	89.3	
2,3,4,7,8-PeCDF	5.48				13C-2,3,4,7,8-PeCDF	85.2	
1,2,3,4,7,8-HxCDF	14.5				13C-1,2,3,4,7,8-HxCDF	77.7	
1,2,3,6,7,8-HxCDF	6.93				13C-1,2,3,6,7,8-HxCDF	73.8	
2,3,4,6,7,8-HxCDF	10.1				13C-2,3,4,6,7,8-HxCDF	76.7	
1,2,3,7,8,9-HxCDF	2.71				13C-1,2,3,7,8,9-HxCDF	74.4	
1,2,3,4,6,7,8-HpCDF	257				13C-1,2,3,4,6,7,8-HpCDF	72.1	
1,2,3,4,7,8,9-HpCDF	12				13C-1,2,3,4,7,8,9-HpCDF	77.2	
OCDF	842				13C-OCDF	77.9	

Totals						CS Recoveries	
TCDDs	26.8		28.9		37Cl-2,3,7,8-TCDD	81.8	<b>AS Recoveries</b> 65.9 89
PeCDDs	57.2		58.1		13C-1,2,3,4,7-PeCDD	79.1	
HxCDDs	564				13C-1,2,3,4,6-PeCDF	96.4	
HpCDDs	6,420				13C-1,2,3,4,6,9-HxCDF	85.7	
					13C-1,2,3,4,6,8,9-HpCDF	92.7	
TCDFs	36.2		38				
PeCDFs	69.6		70.5				
HxCDFs	289		290		13C-1,3,6,8-TCDD	65.9	
HpCDFs	835				13C-1,3,6,8-TCDF	89	
<b>Total PCDD/Fs</b>	<b>24,800</b>		<b>24,900</b>				

ITEF TEQs			
TEQ: ND=0	49.9		49.9
TEQ: ND=DL/2	49.9		49.9
TEQ: ND=DL	49.9		49.9

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Wilmington, NC 28405  
USA

**ANALYTICAL PERSPECTIVES**

Tel: +1 910 794-1613; Toll-Free 866 846-8290      info@ultratrace.com  
Fax: +1 910 794-3919      www.ultratrace.com

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*7 April 09*  
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 Date: *[Signature]*

Client Data		Sample Data		Laboratory Data			
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1193	Date Received:	17 Mar 09
Project ID:	080166-01	Weight/Volume:	10.16 g	Sample ID:	P1193_6679_006	Date Extracted:	19 Mar 09
Date Collected:	13 Mar 09	% Solids:	32.3 %	QC Batch No.:	6679	Date Analyzed:	25 Mar 09
		Split:	-	Dilution:	-	Time Analyzed:	21:51:19
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	0.712	[Ra=0.852]			13C-2,3,7,8-TCDD	84.8	ok 7 April 09
1,2,3,7,8-PeCDD	3.51				13C-1,2,3,7,8-PeCDD	81.6	
1,2,3,4,7,8-HxCDD	10.3				13C-1,2,3,4,7,8-HxCDD	73.7	
1,2,3,6,7,8-HxCDD	40.8				13C-1,2,3,6,7,8-HxCDD	76.2	
1,2,3,7,8,9-HxCDD	18				13C-1,2,3,7,8,9-HxCDD	77.5	
1,2,3,4,6,7,8-HpCDD	1,990				13C-1,2,3,4,6,7,8-HpCDD	86.1	
OCDD	23,100			*	13C-OCDD	93.2	
2,3,7,8-TCDF	2.39				13C-2,3,7,8-TCDF	96	
1,2,3,7,8-PeCDF	2.36			J	13C-1,2,3,7,8-PeCDF	91	
2,3,4,7,8-PeCDF	5.25				13C-2,3,4,7,8-PeCDF	89	
1,2,3,4,7,8-HxCDF	14.1				13C-1,2,3,4,7,8-HxCDF	74.8	
1,2,3,6,7,8-HxCDF	6.24				13C-1,2,3,6,7,8-HxCDF	71.3	
2,3,4,6,7,8-HxCDF	9.46				13C-2,3,4,6,7,8-HxCDF	75.1	
1,2,3,7,8,9-HxCDF	2.62				13C-1,2,3,7,8,9-HxCDF	73.1	
1,2,3,4,6,7,8-HpCDF	258				13C-1,2,3,4,6,7,8-HpCDF	70.2	
1,2,3,4,7,8,9-HpCDF	11.9				13C-1,2,3,4,7,8,9-HpCDF	76	
OCDF	869				13C-OCDF	81.7	
Totals						CS Recoveries	
TCDDs	18.7		20.8		37Cl-2,3,7,8-TCDD	86.3	
PeCDDs	52.5				13C-1,2,3,4,7-PeCDD	79	
HxCDDs	860				13C-1,2,3,4,6-PeCDF	93.8	
HpCDDs	11,200				13C-1,2,3,4,6,9-HxCDF	81.5	
					13C-1,2,3,4,6,8,9-HpCDF	87.7	
TCDFs	32.5		34.5				
PeCDFs	63.9						
HxCDFs	287		288		13C-1,3,6,8-TCDD	74.4	
HpCDFs	879				13C-1,3,6,8-TCDF	95.4	
						AS Recoveries	
<b>Total PCDD/Fs</b>	<b>37,400</b>		<b>37,400</b>				
<b>ITEF TEQs</b>							
TEQ: ND=0	62.1		62.1				
TEQ: ND=DL/2	62.1		62.1				
TEQ: ND=DL	62.1		62.1				

Checkcode: 1387



Tel: +1 910 794-1613; Toll-Free 866 846-8290  
Fax: +1 910 794-3919


2714 Exchange Drive  
Wilmington, NC 28405  
USA  
info@ultratrace.com  
www.ultratrace.com

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Reviewer: [Signature]  
Date: [Signature]





Client Data		Sample Data		Laboratory Data				
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1193	Date Received:	17 Mar 09	
Project ID:	080166-01	Weight/Volume:	10.02 g	Sample ID:	P1193_6679_008	Date Extracted:	19 Mar 09	
Date Collected:	13 Mar 09	% Solids:	25.8 %	QC Batch No.:	6679	Date Analyzed:	26 Mar 09	
		Split:	-	Dilution:	-	Time Analyzed:	2:13:51	
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers	
2,3,7,8-TCDD	0.791	[Ra=0.81]			13C-2,3,7,8-TCDD	80	<i>ok 7 April 09</i>	
1,2,3,7,8-PeCDD	4.91				13C-1,2,3,7,8-PeCDD	80.8		
1,2,3,4,7,8-HxCDD	10.3				13C-1,2,3,4,7,8-HxCDD	74.2		
1,2,3,6,7,8-HxCDD	44.1				13C-1,2,3,6,7,8-HxCDD	75.3		
1,2,3,7,8,9-HxCDD	20.3				13C-1,2,3,7,8,9-HxCDD	78.5		
1,2,3,4,6,7,8-HpCDD	1,110				13C-1,2,3,4,6,7,8-HpCDD	82.6		
OCDD	9,630				13C-OCDD	82.9		
2,3,7,8-TCDF	3.21				13C-2,3,7,8-TCDF	96.1		
1,2,3,7,8-PeCDF	3.33				13C-1,2,3,7,8-PeCDF	93.1		
2,3,4,7,8-PeCDF	7.97				13C-2,3,4,7,8-PeCDF	90.1		
1,2,3,4,7,8-HxCDF	20.6				13C-1,2,3,4,7,8-HxCDF	74.7		
1,2,3,6,7,8-HxCDF	8.17				13C-1,2,3,6,7,8-HxCDF	70.9		
2,3,4,6,7,8-HxCDF	12.7				13C-2,3,4,6,7,8-HxCDF	75		
1,2,3,7,8,9-HxCDF	3.8				13C-1,2,3,7,8,9-HxCDF	74		
1,2,3,4,6,7,8-HpCDF	297				13C-1,2,3,4,6,7,8-HpCDF	72		
1,2,3,4,7,8,9-HpCDF	12.7				13C-1,2,3,4,7,8,9-HpCDF	75.2		
OCDF	787				13C-OCDF	73.3		
<b>Totals</b>						<b>CS Recoveries</b>		
TCDDs	27.2		28.2		37Cl-2,3,7,8-TCDD	79.6		
PeCDDs	52.2		57.7		13C-1,2,3,4,7-PeCDD	80.3		
HxCDDs	428				13C-1,2,3,4,6-PeCDF	90.8		
HpCDDs	3,120				13C-1,2,3,4,6,9-HxCDF	79.1		
					13C-1,2,3,4,6,8,9-HpCDF	83.9		
TCDFs	46.3		46.4			<b>AS Recoveries</b>		
PeCDFs	90.1		90.3		13C-1,3,6,8-TCDD	68.2		
HxCDFs	373		374		13C-1,3,6,8-TCDF	88.9		
HpCDFs	904							
<b>Total PCDD/Fs</b>	<b>15,500</b>		<b>15,500</b>		 2714 Exchange Drive Wilmington, NC 28405 USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 info@ultratrace.com www.ultratrace.com			
<b>ITEF TEQs</b>								
TEQ: ND=0	44.3		44.3					
TEQ: ND=DL/2	44.3		44.3					
TEQ: ND=DL	44.3		44.3					

Checkcode: 5423

AP 2008 Rev H  
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# Sample ID: PO-AM-28-SS-A-090313

# Method 1613

Client Data		Sample Data		Laboratory Data		Date Received:	
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1193	Date Received:	17 Mar 09
Project ID:	080166-01	Weight/Volume:	10.02 g	Sample ID:	P1193_6679_009	Date Extracted:	19 Mar 09
Date Collected:	13 Mar 09	% Solids:	25.9 %	QC Batch No.:	6679	Date Analyzed:	26 Mar 09
		Split:	-	Dilution:	-	Time Analyzed:	3:03:54

Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	0.634	[Ra=0.711]			13C-2,3,7,8-TCDD	79.1	<i>ok of 7 April 09</i>
1,2,3,7,8-PeCDD	3.28				13C-1,2,3,7,8-PeCDD	84.6	
1,2,3,4,7,8-HxCDD	6.3				13C-1,2,3,4,7,8-HxCDD	72.9	
1,2,3,6,7,8-HxCDD	28.7				13C-1,2,3,6,7,8-HxCDD	75.3	
1,2,3,7,8,9-HxCDD	12.6				13C-1,2,3,7,8,9-HxCDD	79	
1,2,3,4,6,7,8-HpCDD	635				13C-1,2,3,4,6,7,8-HpCDD	81.6	
OCDD	5,080				13C-OCDD	82.3	
2,3,7,8-TCDF	2.67				13C-2,3,7,8-TCDF	97	
1,2,3,7,8-PeCDF	2.44			J	13C-1,2,3,7,8-PeCDF	94.3	
2,3,4,7,8-PeCDF	5.01				13C-2,3,4,7,8-PeCDF	92.9	
1,2,3,4,7,8-HxCDF	12.1				13C-1,2,3,4,7,8-HxCDF	75	
1,2,3,6,7,8-HxCDF	5.49				13C-1,2,3,6,7,8-HxCDF	71.5	
2,3,4,6,7,8-HxCDF	7.96				13C-2,3,4,6,7,8-HxCDF	76.1	
1,2,3,7,8,9-HxCDF	2.25			J	13C-1,2,3,7,8,9-HxCDF	74.2	
1,2,3,4,6,7,8-HpCDF	195				13C-1,2,3,4,6,7,8-HpCDF	73	
1,2,3,4,7,8,9-HpCDF	7.19				13C-1,2,3,4,7,8,9-HpCDF	77	
OCDF	410				13C-OCDF	71.2	

Totals						CS Recoveries	
TCDDs	26.5		28.8		37Cl-2,3,7,8-TCDD	82.7	
PeCDDs	51.6				13C-1,2,3,4,7-PeCDD	83.9	
HxCDDs	282				13C-1,2,3,4,6-PeCDF	98.4	
HpCDDs	1,600				13C-1,2,3,4,6,9-HxCDF	81.1	
					13C-1,2,3,4,6,8,9-HpCDF	84.9	
TCDFs	35.7		38.9				
PeCDFs	62.9		63.3				AS Recoveries
HxCDFs	240		242		13C-1,3,6,8-TCDD	70.3	
HpCDFs	535				13C-1,3,6,8-TCDF	93.4	

Total PCDD/Fs	8,330		8,330	 2714 Exchange Drive Wilmington, NC 28405 USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 Fax: +1 910 794-3919 info@ultratrace.com www.ultratrace.com			
ITEF TEQs							
TEQ: ND=0	26.6		26.6				
TEQ: ND=DL/2	26.6		26.6				
TEQ: ND=DL	26.6		26.6				

Checkcode: 5672

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*ok of 7 April 09*  
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Client Data		Sample Data		Laboratory Data			
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1193	Date Received:	17 Mar 09
Project ID:	080166-01	Weight/Volume:	10.04 g	Sample ID:	P1193_6679_010	Date Extracted:	19 Mar 09
Date Collected:	13 Mar 09	% Solids:	28.6 %	QC Batch No.:	6679	Date Analyzed:	26 Mar 09
		Split:	-	Dilution:	-	Time Analyzed:	3:54:17
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	0.575	[Ra=0.735]			13C-2,3,7,8-TCDD	91.8	<i>ok 7 April 09</i>
1,2,3,7,8-PeCDD	3.18				13C-1,2,3,7,8-PeCDD	87.4	
1,2,3,4,7,8-HxCDD	5.98				13C-1,2,3,4,7,8-HxCDD	84.3	
1,2,3,6,7,8-HxCDD	30.6				13C-1,2,3,6,7,8-HxCDD	84.1	
1,2,3,7,8,9-HxCDD	12.7				13C-1,2,3,7,8,9-HxCDD	86.5	
1,2,3,4,6,7,8-HpCDD	721				13C-1,2,3,4,6,7,8-HpCDD	93.6	
OCDD	6,590				13C-OCDD	94.1	
2,3,7,8-TCDF	2.64				13C-2,3,7,8-TCDF	108	
1,2,3,7,8-PeCDF	2.57				13C-1,2,3,7,8-PeCDF	103	
2,3,4,7,8-PeCDF	5.05				13C-2,3,4,7,8-PeCDF	101	
1,2,3,4,7,8-HxCDF	12				13C-1,2,3,4,7,8-HxCDF	83.9	
1,2,3,6,7,8-HxCDF	5.59				13C-1,2,3,6,7,8-HxCDF	79.9	
2,3,4,6,7,8-HxCDF	8.06				13C-2,3,4,6,7,8-HxCDF	83.4	
1,2,3,7,8,9-HxCDF	2.45			J	13C-1,2,3,7,8,9-HxCDF	81.6	
1,2,3,4,6,7,8-HpCDF	196				13C-1,2,3,4,6,7,8-HpCDF	81.9	
1,2,3,4,7,8,9-HpCDF	7.38				13C-1,2,3,4,7,8,9-HpCDF	85.3	
OCDF	363				13C-OCDF	82.6	
<b>Totals</b>						<b>CS Recoveries</b>	
TCDDs	25.1		26		37Cl-2,3,7,8-TCDD	95.3	<b>AS Recoveries</b>
PeCDDs	51.3				13C-1,2,3,4,7-PeCDD	89.3	
HxCDDs	322				13C-1,2,3,4,6-PeCDF	108	
HpCDDs	2,350				13C-1,2,3,4,6,9-HxCDF	90.7	
					13C-1,2,3,4,6,8,9-HpCDF	94.4	
TCDFs	37.7						
PeCDFs	63		63.2				
HxCDFs	249		250		13C-1,3,6,8-TCDD	84.4	
HpCDFs	547				13C-1,3,6,8-TCDF	106	
<b>Total PCDD/Fs</b>	<b>10,600</b>		<b>10,600</b>				
<b>ITEF TEQs</b>							
TEQ: ND=0	29		29				
TEQ: ND=DL/2	29		29				
TEQ: ND=DL	29		29				

Checkcode: 5953



Tel: +1 910 794-1613; Toll-Free 866 846-8290  
 Fax: +1 910 794-3919

2714 Exchange Drive  
 Wilmington, NC 28405  
 USA  
 info@ultratrace.com  
 www.ultratrace.com

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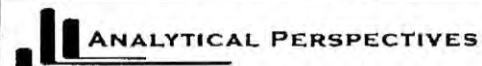
*7 April 09*  
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 Date: *[Signature]*

# Sample ID: B1-S37-SS-A-090313

# Method 1613

Client Data		Sample Data		Laboratory Data			
Name:	Anchor Environmental, LLC	Matrix:	Solids	Project No.:	P1193	Date Received:	17 Mar 09
Project ID:	080166-01	Weight/Volume:	10.15 g ✓	Sample ID:	P1193_6679_011	Date Extracted:	19 Mar 09
Date Collected:	13 Mar 09	% Solids:	28.4 %	QC Batch No.:	6679	Date Analyzed:	26 Mar 09
		Split:	-	Dilution:	-	Time Analyzed:	4:44:41 ✓
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	0.717	[Ra=0.837]			13C-2,3,7,8-TCDD	79.4	<i>ok</i> <i>7 April 09</i>
1,2,3,7,8-PeCDD	3.28				13C-1,2,3,7,8-PeCDD	81.2	
1,2,3,4,7,8-HxCDD	6.4				13C-1,2,3,4,7,8-HxCDD	80.1	
1,2,3,6,7,8-HxCDD	29.7				13C-1,2,3,6,7,8-HxCDD	78.3	
1,2,3,7,8,9-HxCDD	12.7				13C-1,2,3,7,8,9-HxCDD	80.9	
1,2,3,4,6,7,8-HpCDD	603				13C-1,2,3,4,6,7,8-HpCDD	90.4	
OCDD	4,490				13C-OCDD	94.3	
2,3,7,8-TCDF	3.05				13C-2,3,7,8-TCDF	99	
1,2,3,7,8-PeCDF	2.61				13C-1,2,3,7,8-PeCDF	99.5	
2,3,4,7,8-PeCDF	5.15				13C-2,3,4,7,8-PeCDF	94.5	
1,2,3,4,7,8-HxCDF	11.9				13C-1,2,3,4,7,8-HxCDF	82.8	
1,2,3,6,7,8-HxCDF	5.77				13C-1,2,3,6,7,8-HxCDF	78.2	
2,3,4,6,7,8-HxCDF	8.6				13C-2,3,4,6,7,8-HxCDF	81.9	
1,2,3,7,8,9-HxCDF	2.46			J	13C-1,2,3,7,8,9-HxCDF	79.4	
1,2,3,4,6,7,8-HpCDF	206				13C-1,2,3,4,6,7,8-HpCDF	83.3	
1,2,3,4,7,8,9-HpCDF	6.86				13C-1,2,3,4,7,8,9-HpCDF	86.5	
OCDF	346				13C-OCDF	81.7	
Totals						CS Recoveries	
TCDDs	29.2		30.2		37Cl-2,3,7,8-TCDD	81.2	<b>AS Recoveries</b> 70 96.7
PeCDDs	57.6		58.7		13C-1,2,3,4,7-PeCDD	84.4	
HxCDDs	284		288		13C-1,2,3,4,6-PeCDF	107	
HpCDDs	1,420				13C-1,2,3,4,6,9-HxCDF	87.2	
					13C-1,2,3,4,6,8,9-HpCDF	95.3	
TCDFs	40.3		41.8				
PeCDFs	64.2						
HxCDFs	254		255		13C-1,3,6,8-TCDD	70	
HpCDFs	555				13C-1,3,6,8-TCDF	96.7	
<b>Total PCDD/Fs</b>	<b>7,540</b>		<b>7,550</b>				
ITEF TEQs							
TEQ: ND=0	26.1		26.1				
TEQ: ND=DL/2	26.1		26.1				
TEQ: ND=DL	26.1		26.1				

Checkcode: 0245



Tel: +1 910 794-1613; Toll-Free 866 846-8290  
 Fax: +1 910 794-3919

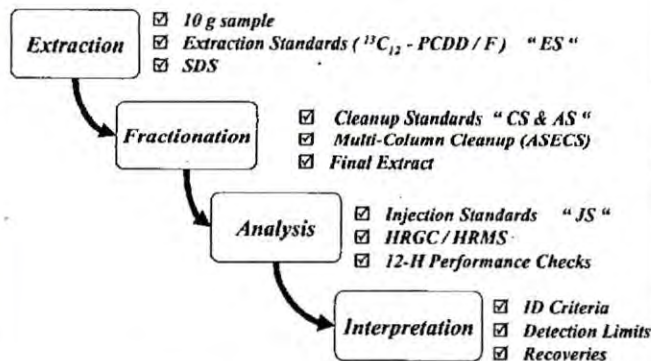
2714 Exchange Drive  
 Wilmington, NC 28405  
 USA  
 info@ultratrace.com  
 www.ultratrace.com

AP 2008 Rev. H

*ok*  
*7 April 09*  
 Reviewer: *[Signature]*  
 Date: *[Signature]*



## SAMPLE PROCESSING



DIF: A, B

## SPIKE PROFILE

**AX(8290B):** 0.2 NG (200 μL; 0.001 NG/μL)  
**ES (8290B):** 2 NG (200 μL; 0.01 NG/μL)  
**CS (8290B):** 0.8 NG (20 μL; 0.04 NG/μL)  
**JS (8290B):** 2 NG (200 μL; 0.01 NG/μL)

## SOPS

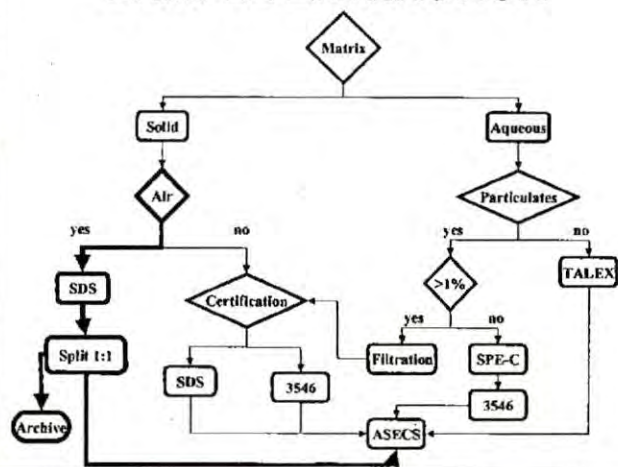
**EXTRACTION:** AP-CM-5  
**FRACTIONATION:** AP-SP-CU  
**ANALYSIS:** AP-SP-A  
**CONCENTRATION:** AP-SP-N  
**FORTIFICATION:** AP-SP-F  
**DATA VALIDATION:** AP-SP-R

## QC PROFILE

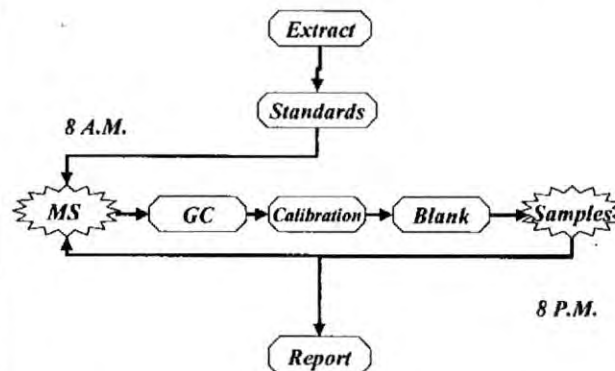
**LMB:** ALWAYS REQUIRED  
**OPR:** 1613 ONLY; NO BCS<sub>3</sub>  
**BATCH CS<sub>3</sub>:** 8290B ONLY

2,3,7,8-TCDD	YES	NO
2,3,7,8-TCDF	YES	NO
PCDD/Fs	<b>YES</b>	NO

## SAMPLE EXTRACTION



## SAMPLE ANALYSIS



## SPECIAL REQUIREMENTS

### SUPPLIES IDS

SAND	
TOLUENE	084025
ACID SILICA	034209+
BASE SILICA	034209C
SILICA	0224209
FLORISIL	0315209
HEXANE	CV1025
CH <sub>2</sub> CL <sub>2</sub>	CV1348
TETRADECANE	1189208
HYDROMATRIX	030209
H <sub>2</sub> SO <sub>4</sub>	
K SILICATE	



Project: P1193

Extraction Batch: 6679

Extraction Group: 1613SOL

SDS Number	AP Sample ID	Client Sample ID	Weight g	Observations	ES	AS	SDS	CS/AS	ASECS (Td)	Additional Cleanup	JS
6	0_6679_MB001	—————	10.12	Hydromatrix 03062009	3/19/09	3/19/09	TOL	3/20/09	3	-	HL
8	0_6679_OPR001	—————	10.17	Hydromatrix 03062009	3/19/09	3/19/09	JL	3/20/09	5	-	HL
9	P1193_6679_001	PO-BA-24-SS-A-090	12.18	moist block sand with rocks? shells	3/19/09	3/19/09	JL	3/20/09	4	-	HL
10	P1193_6679_002	PO-BA-25-SS-A-090	11.79	see 001	3/19/09	3/19/09	JL	3/20/09	7	-	HL
11	P1193_6679_003	PO-BA-26-SS-A-090	12.40	see 001	3/19/09	3/19/09	JL	3/20/09	8	-	HL
12	P1193_6679_004	PO-BA-27B-SS-A-09	12.41	see 001	3/19/09	3/19/09	JL	3/20/09	16	-	HL
13	P1193_6679_005	PO-UP-20-SS-A-090	37.77	wet black mud	3/19/09	3/19/09	JL	3/20/09	17	-	HL
14	P1193_6679_006	PO-UP-21-SS-A-090	31.50	see 005	3/19/09	3/19/09	JL	3/20/09	14	-	HL
16	P1193_6679_007	PO-UP-22-SS-A-090	38.17	see 005	3/19/09	3/19/09	JL	3/20/09	13	-	HL
17	P1193_6679_008	PO-UP-23B-SS-A-09	38.21	see 005	3/19/09	3/19/09	JL	3/20/09	12	-	HL
18	P1193_6679_009	PO-AM-28-SS-A-090	38.69	see 005	3/19/09	3/19/09	JL	3/20/09	11	-	HL
19	P1193_6679_010	BI-C16-SS-A-09031	35.06	see 005	3/19/09	3/19/09	JL	3/20/09	10	-	HL
20	P1193_6679_011	BI-S37-SS-A-09031	35.74	see 005	3/19/09	3/19/09	JL	3/20/09	9	-	HL

\*see A0 4/7/09 3-19-09 3/19/09 3-20-09 3/23/09 3-23-09

AX: A  
07012007F AX: A  
10pg/l  
1/2/10  
SLC 8-74.1

AS: 07012007B-AS  
10pg/l  
6/30/09  
SLC 8-9.2

ES ID: 07012007B-ES  
ES (conc.): 10pg/l  
ES (exp.): 6/30/09  
Vial #: SLC 7-29.2  
200 0.01  
ES: 20ul @ 0.1ng/ul

AS ID: 01262009-AX: B  
Ax (conc.): 10pg/l  
Ax (exp.): 1/26/11  
Vial #: SLC 9.2.2  
Ax: 20ul @ 0.1ng/ul

CS ID: 07012007A-CS/KS  
CS (conc.): 40pg/l  
CS (exp.): 6/30/09  
Vial #: SLC 7-23.3  
CS: 20ul @ 0.04ng/ul

JS ID: 07012007F JS  
JS (conc.): 10pg/l  
JS (exp.): 3/13/10  
Vial #: SLC 9-8-4  
200 0.01  
JS: 20ul @ 0.2ng/ul

Cycle Time:  
3/19/09  
Start: 3:20PM  
3/20/09  
Stop: 9:30AM

Check Out:  
Chemist: HL 3/19/09  
Check-In:  
Chemist: HL 3/19/09



ANALYTICAL PERSPECTIVES

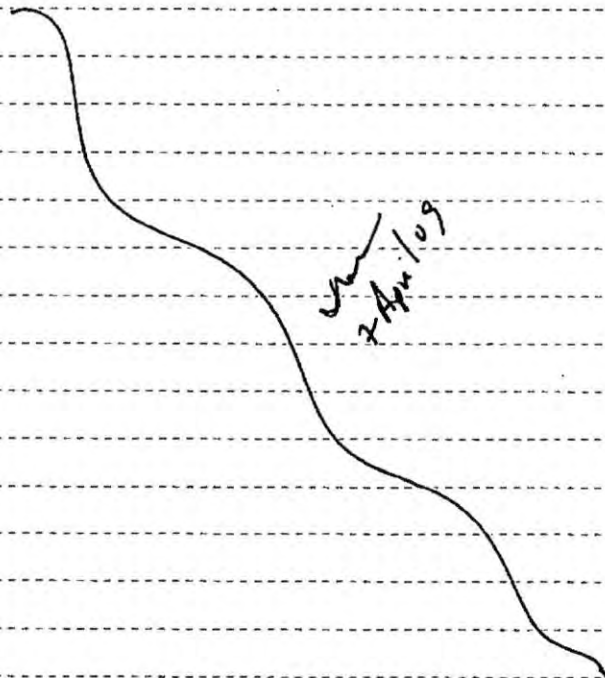
# SAMPLE PATH

AP PROJECT No.: P1193

## SPIKE PROFILE PCDD/F

Analyte	Spiked Compounds	Spiked Amount	Spiked Volume	Spiking Solution Conc.	Split Factor Factor	Final Volume	Final Solvent
PCDD/F <i>ee Ao 4/7/09</i>	ES	2 ng	200 µL	0.01 ng/µL	1	20 µL	Td
	CS / AS	0.8 / 2 ng	20 µL	0.04 ng/µL			
	JS	2 ng	200 µL	0.01 ng/µL			
	Ax BCS3 <i>A:B</i>	0.2 ng	200 µL	0.001 ng/µL	1	20 µL	Td

## SPECIAL INSTRUCTIONS





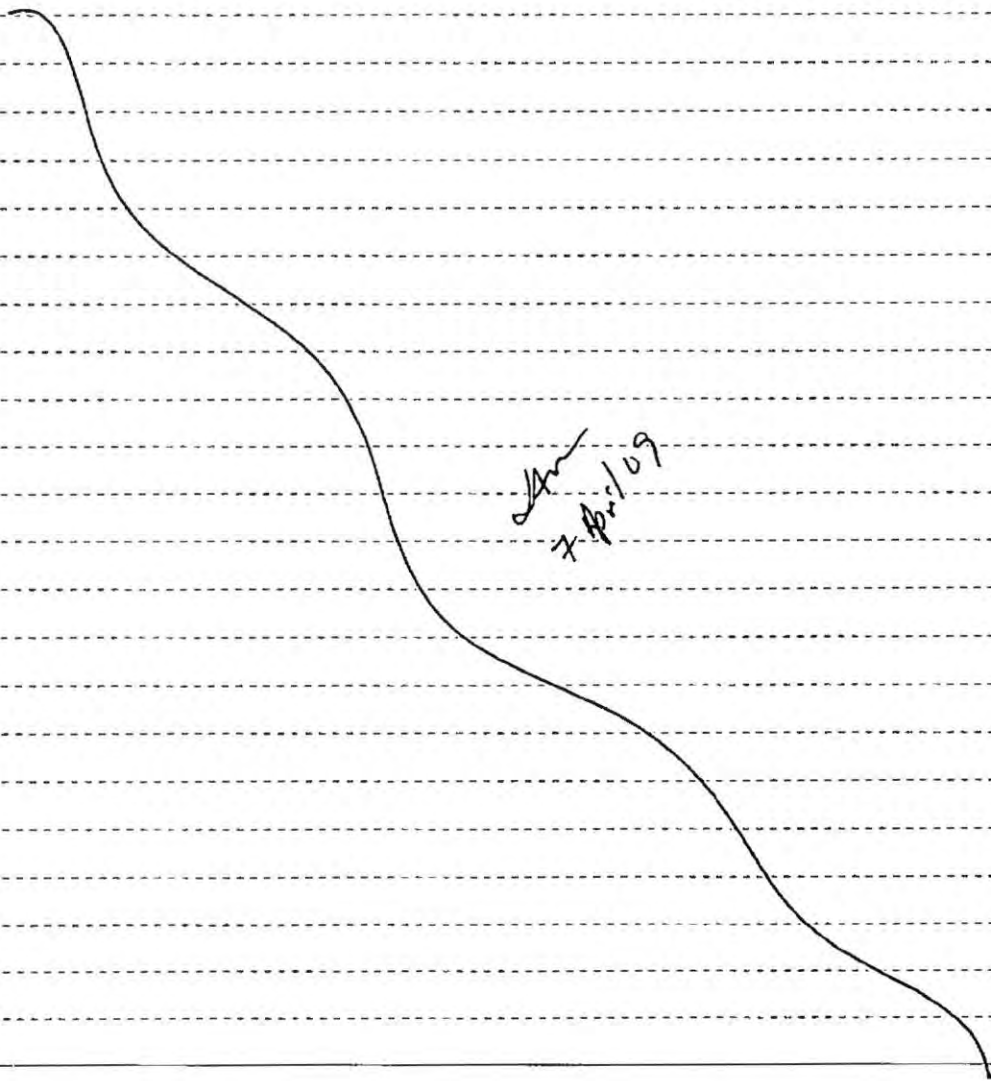


ANALYTICAL PERSPECTIVES

# SAMPLE PATH

AP PROJECT No.: P1193

## COMMUNICATIONS



*Handwritten signature*  
7 April 09



## M8290/1613 PCDD/F SPIKE PROFILE

ANALYTE	CLEANUP STANDARDS AMOUNT SPIKED (NG)
<sup>37</sup> Cl <sub>4</sub> -2,3,7,8-TCDD	0.8
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7-PeCDD	2
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6-PeCDF	2
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,9-HxCDF	2
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,8,9-HpCDF	2

COMPOUND	INJECTION STANDARDS AMOUNT SPIKED NG
<sup>13</sup> C <sub>12</sub> -1,2,3,4-TCDD	2
<sup>13</sup> C <sub>12</sub> -1,2,3,4-TCDF	2
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7-HxCDD	1

COMPOUND	ALTERNATE STANDARD AMOUNT SPIKED NG
<sup>13</sup> C <sub>12</sub> -1,3,6,8-TCDD	2
<sup>13</sup> C <sub>12</sub> -1,3,6,8-TCDF	2

COMPOUND	EXTRACTION STANDARDS AMOUNT SPIKED NG
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDD	2
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDD	2
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDD	2
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDD	2
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDD	2
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDD	2
<sup>13</sup> C <sub>12</sub> -OCDD	4
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDF	2
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDF	2
<sup>13</sup> C <sub>12</sub> -2,3,4,7,8-PeCDF	2
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDF	2
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDF	2
<sup>13</sup> C <sub>12</sub> -2,3,4,6,7,8-HxCDF	2
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDF	2
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8,9-HpCDF	2
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDF	2
<sup>13</sup> C <sub>12</sub> -OCDF	4



## % Solids

**Procedures:**

- Tare Balance.
- Add boat and weigh. Record "Boat Wt".
- Add the sample (2-10 g) to the boat and , record "Wet Wt. + Boat Wt." (total).
- Dry in oven overnight @ 107 C.
- Tare Balance.
- Return dish to toplayer, record "Residue + Boat Wt.".

Project: P1193  
 Extr Group: 6679

Chemist: DEM  
 Prep. Date: 18 March 09

AP Sample ID	Boat Wt.	Wet Wt. + Boat Wt.	CHEM/DATE	Residue + Boat Wt.	CHEM/DATE	COMMENTS
001	1.34	12.93	DEM	11.10	w	11.88
002	1.34	11.25	DEM	9.92	w	11.55
003	1.34	10.98	DEM	9.49	w	11.83
004	1.34	13.69	DEM 11.66	2.75	w	11.97
005	1.34	8.58	DEM	3.27	w	37.51
006	1.33	8.80	DEM	3.74	w	31.00
007	1.32	6.34	DEM	2.64	w	38.03
008	1.35	7.97	DEM	3.06	w	38.71
009	1.32	8.00	DEM	3.22	w	38.63
010	1.31	9.17	DEM	3.56	w	34.93
011	1.31	6.38	DEM 3/18/09	2.75	w	35.21
<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(45deg); position: absolute; top: 50%; left: 50%;"></div>						

eeAO  
4/7/09

NOTES:





**Sample Inventory Report - Extended**

Project Name: 080166-01 —

Project No.: P1193 —

<u>AP</u> <u>Sample ID</u>	<u>Client</u> <u>Sample ID</u>	<u>Client Sample</u> <u>Description</u>	<u>Date</u> <u>Sampled</u>	<u>Date</u> <u>Received</u>
P1193 001	PO-BA-24-SS-A-090313 ✓	Sediment —	13-Mar-09 ✓	17-Mar-09 ✓
P1193 002	PO-BA-25-SS-A-090316 ✓	Sediment ✓	16-Mar-09 ✓	17-Mar-09 ✓
P1193 003	PO-BA-26-SS-A-090316 ✓	Sediment ✓	16-Mar-09 ✓	17-Mar-09 ✓
P1193 004	PO-BA-27B-SS-A-090313 ✓	Sediment —	13-Mar-09 ✓	17-Mar-09 —
P1193 005	PO-UP-20-SS-A-090313 ✓	Sediment —	13-Mar-09 ✓	17-Mar-09 —
P1193 006	PO-UP-21-SS-A-090313 ✓	Sediment —	13-Mar-09 ✓	17-Mar-09 —
P1193 007	PO-UP-22-SS-A-090313 ✓	Sediment —	13-Mar-09 ✓	17-Mar-09 —
P1193 008	PO-UP-23B-SS-A-090313 ✓	Sediment —	13-Mar-09 ✓	17-Mar-09 —
P1193 009	PO-AM-28-SS-A-090313 ✓	Sediment ✓	13-Mar-09 ✓	17-Mar-09 —
P1193 010	B1-C16-SS-A-090313 ✓	Sediment —	13-Mar-09 ✓	17-Mar-09 ✓
P1193 011	B1-S37-SS-A-090313 ✓	Sediment ✓	13-Mar-09 ✓	17-Mar-09 ✓

*ok  
18 March 09*

17-Mar-09  
smpinex.



# CHAIN-OF-CUSTODY RECORD

PROJECT ID: 080166-01 P.O. No.: JD-021909B SAMPLER: LIZ VONCKX *Liz Vonckx*  
(PRINTED NAME) (SIGNATURE)

RELINQUISHED BY: (SIGNATURE & PRINTED NAME) DATE: TIME: RECEIVED BY: (SIGNATURE & PRINTED NAME) DATE: TIME:  
*Liz Vonckx* LIZ VONCKX 3/16/09 1630 *Shanne R Hudson* Shanne R Hudson 17-MAR-09 10:00AM  
RELINQUISHED BY: (SIGNATURE & PRINTED NAME) DATE: TIME: RECEIVED BY: (SIGNATURE & PRINTED NAME) DATE: TIME:

SHIP TO: ANALYTICAL PERSPECTIVES  
2714 EXCHANGE DRIVE  
WILMINGTON, NC 28405  
PH.: 910-794-1613

METHOD OF SHIPMENT:  
Fed Ex  
SHIPMENT ID:

ATTN: YVES TONDEUR

QAPP REFERENCE: \_\_\_\_\_  
SAMPLE ACCEPTANCE POLICY  
(ON BACK SIDE)

SAMPLE ID	DATE	TIME	SAMPLE DESCRIPTION	MS/MSD	DUP	EPA METHOD 8290	EPA METHOD 1613	EPA METHOD 1668A	PAHS BY HRMS	QUANTIC	USVOA	WHO2 / WHO2S	1668 X	TAT	CONTAINER(S)		MATRIX	
															QTY	TYPE		
PO-BA-24- SS-A-090313	3/13/09	1530	Sediment			✓								STD.	1	glass ROE	SED	
PO-BA-25- SS-A-090316	3/16/09	1320	↓			✓												
PO-BA-26- SS-A-090316	3/16/09	1205					✓											
PO-BA-27B- SS-A-090313	3/13/09	1616					✓											
PO-UP-20- SS-A-090313	3/13/09	1255					✓											
PO-UP-21- SS-A-090313	3/13/09	1235					✓											
PO-UP-22- SS-A-090313	3/13/09	1220					✓											

SPECIAL INSTRUCTIONS/COMMENTS: CIRCLE OPTION BELOW

"DIOXINS/FURANS ONLY" "D/F - PCB" "D/F - PCB - PAH"  
"OTHER"  
"TRI - OCTA" 2,3,7,8-TCDD/F 2,3,7,8-TCDD

STANDARD  
REQUESTED TAT:  
\_\_\_ DAYS

PLEASE SEE NOTES AT THE BACK OF THE COC.

- SAMPLE ACCEPTANCE POLICY
- METHOD 8290 MS/MSD & DUP

PLEASE SPECIFY TEFS  "ITEFS"  "WHO TEFS"

SEND DOCUMENTATION & RESULTS TO:

NAME: Joy Dunay or Dan Berlin  
COMPANY: Anchor GEA, LLC  
ADDRESS: 1423 3rd Ave, Suite 300  
CITY: Seattle STATE: WA ZIP: 98101  
PH.: (206) 287-9130 E-MAIL: dberlin@anchorgea.com  
jdunay@



# CHAIN-OF-CUSTODY RECORD

PROJECT ID: 080166-01 P.O. No.: JD-021909B SAMPLER: LIZ VONCKX *Liz Vonckx*  
 (PRINTED NAME) (SIGNATURE)

RELINQUISHED BY: (SIGNATURE & PRINTED NAME) DATE: TIME: RECEIVED BY: (SIGNATURE & PRINTED NAME) DATE: TIME:  
*Liz Vonckx* LIZ VONCKX 3/16/09 1630 *Shanee R Hudson* Shanee R Hudson 17-March-09 10:00am  
 RELINQUISHED BY: (SIGNATURE & PRINTED NAME) DATE: TIME: RECEIVED BY: (SIGNATURE & PRINTED NAME) DATE: TIME:

SHIP TO: ANALYTICAL PERSPECTIVES  
 2714 EXCHANGE DRIVE  
 WILMINGTON, NC 28405  
 PH.: 910-794-1613

METHOD OF SHIPMENT: FedEx  
 SHIPMENT ID:

ATTN: YVES TONDEUR

QAPP REFERENCE: \_\_\_\_\_  
 SAMPLE ACCEPTANCE POLICY  
 (ON BACK SIDE)

SAMPLE ID	DATE	TIME	SAMPLE DESCRIPTION	MS/MSD	DUP	EPA METHOD 8290	EPA METHOD 1613	EPA METHOD 1668A	PAHS BY HRMS	QUANTIC	U-SVOA	WHO2 / WHO25	1668X	TAT	CONTAINER(S)		
															QTY	TYPE	MATRIX
PO-UP-23B- SS-A-090313	3/13/09	1147	Sediment			✓								STD	1	glass 80z	sed
PO-AM-28- SS-A-090313	3/13/09	0840	↓			✓											
B1-C16- SS-A-090313	3/13/09	0955	↓			✓											
B1-837- SS-A-090313	3/13/09	0915	↓			✓											

SPECIAL INSTRUCTIONS/COMMENTS: CIRCLE OPTION BELOW

"DIOXINS/FURANS ONLY" "D/F - PCB" "D/F - PCB - PAH"  
 "OTHER"  
 "TRI - OCTA" 2,3,7,8-TCDD/F 2,3,7,8-TCDD

PLEASE SEE NOTES AT THE BACK OF THE COC.

- SAMPLE ACCEPTANCE POLICY
- METHOD 8290 MS/MSD & DUP

PLEASE SPECIFY TEFS  "ITEFS"  "WHO TEFS"

SEND DOCUMENTATION & RESULTS TO:

NAME: Joy Dunay op Dan Berlin  
 COMPANY: Anchor QEA LLC  
 ADDRESS: 1423 3rd Ave Suite 300  
 CITY: Seattle STATE: WA ZIP: 98101  
 PH.: (206) 287-9130 E-MAIL: dberlin@anchorqea.com  
jdunay@

standard.  
 REQUESTED TAT:  
 \_\_\_\_\_  
 DAYS





# SAMPLE LOG-IN FORM

Client Project / Job

080166-01

Date Samples Arrived: 17-march-09 Initials: SEH

PO #:

JD-021909B

Time / Date logged in: 10:00 AM 17-march-09 Refrigerator: F-2 Initials: SEH

Samples Arrived By: (circle one) FedEx UPS Airborne Express DHL Emery  
Freezer Truck Company Courier Other \_\_\_\_\_

AP Project ID: P1193

## CHAIN OF CUSTODY ANOMALY FORM

Shipping Preservation: (circle one) Ice Blue Ice / Dry Ice / None Temp °C 3° VAO *1 h of 18 March 09*

The following items were omitted from the COC

Shipping Documentation Present? (circle one) Shipping Label or Airbill

Project ID and/or PO#:

# of boxes: 1 # of coolers: 1 Tracking #s: 7964 2980 6083

Sampler:

Shipping Container(s) intact? Yes If no, describe condition:

Relinquished By:

Container Custody Seals Present & Intact? Yes If not intact, describe condition:

Date:

Sample Custody Seals Present & Intact? NO If not intact, describe condition:

Time:

# of Seals: 1 or Seal #: 1

Sample ID:

Sample Container Intact? Yes If no, indicate sample condition:

Sample Date:

Chain of Custody (COC) / Sample Documentation Present? Yes Exceptions? N/A

Sample Description:

\*If not, complete COC Anomaly Form\*

Analysis Requested:

Shipping Container: (circle one) Client or AP Return Retain Dispose

Turn-Around Time:

Container and/or Bottles Requested? No

Container Qty.:

Sample Control Log In/Out Completed? Yes

Container Type:

Drinking Water Sample? No If yes, Acceptable preservation? N/A

Other:

### FILL BELOW IF APPLICABLE

### COMMENTS

Have all the samples arrived? Yes If no, complete the following.

Shipment #: \_\_\_\_\_ Date of Arrival: \_\_\_\_\_ Condition: \_\_\_\_\_ Temp °C \_\_\_\_\_

Delivered by: \_\_\_\_\_ Tracking #s: \_\_\_\_\_

COC Present? \_\_\_\_\_ Acceptable? \_\_\_\_\_ If no, document on COC Anomaly Form additional shipment comments.

Container Intact? \_\_\_\_\_ Samples Intact? \_\_\_\_\_ If no, describe:

Do we expect another shipment? \_\_\_\_\_ If yes, start a new log-in sheet. 😊



Analytical Perspectives - Injection Log

Analyst: MC  
MS Method: DF\_CL4-8

GC Column: db-5  
GC Method: DB5MS\_60M

Data file S#	Vial#	Lab ID	Sample ID (Chrom. Text)	Wt/Vol	ES	Check	Acq date	Acq time
090325P1	1	8	CS3 ✓	CS3 SIL7-25-4 ✓	1.0000	100 ✓	25-MAR-09	14:19:58 ✓
090325P1	2	17	OPR1_6679_DF ✓	OPR1_6679_DF 0_6679_OPR001 ✓	1.0000	100 ✓	25-MAR-09	15:10:08 ✓
090325P1	3	15	SBS ✓	SBS SOLVENT BLANK ✓	10.120	2000 ✓	25-MAR-09	16:00:14 ✓
090325P1	4	16	MB1_6679_DF_SDS ✓	MB1_6679_DF_SDS 0_6679_MB001 ✓	10.120	2000 ✓	25-MAR-09	16:50:24 ✓
090325P1	5	18	P1193_6679_001 ✓	P1193_6679_001 PO-BA-24-SS-A-090313 10.26g ✓	10.260	2000 ✓	25-MAR-09	17:40:33 ✓
090325P1	6	19	P1193_6679_002 ✓	P1193_6679_002 PO-BA-25-SS-A-090316 10.21g ✓	10.210	2000 ✓	25-MAR-09	18:30:42 ✓
090325P1	7	20	P1193_6679_003 ✓	P1193_6679_003 PO-BA-26-SS-A-090316 10.5g ✓	10.480	2000 ✓	25-MAR-09	19:20:51 ✓
090325P1	8	21	P1193_6679_004 ✓	P1193_6679_004 PO-BA-27B-SS-A-090313 10.37g ✓	10.370	2000 ✓	25-MAR-09	20:11:01 ✓
090325P1	9	22	P1193_6679_005 ✓	P1193_6679_005 PO-UP-20-SS-A-090313 10.07g ✓	10.070	2000 ✓	25-MAR-09	21:01:10 ✓
090325P1	10	23	P1193_6679_006 ✓	P1193_6679_006 PO-UP-21-SS-A-090313 10.2g ✓	10.160	2000 ✓	25-MAR-09	21:51:19 ✓

ok  
7 April 09

ok no quantitative  
7 April 09

Analytical Perspectives - Injection Log

Analyst: MC  
MS Method: DF\_CL4-8

GC Column: db-5  
GC Method: DB5MS\_60M

Data file S#	Vial#	Lab ID	Sample ID (Chrom. Text)	Wt/Vol	ES	Check	Acq date	Acq time
090325P2	1	8 CS3 ✓	CS3 SIL7-25-4 ✓	1.0000	100	✓	25-MAR-09	22:53:18 ✓
090325P2	2	17 CPSP ✓	CPSP 0_6679_OPR001 ✓	1.0000	100	✓	25-MAR-09	23:43:27 ✓
090325P2	3	15 SBS ✓	SBS SOLVENT BLANK ✓	10.120 ✓	100	✓	26-MAR-09	00:33:33 ✓
090325P2	4	24 P1193_6679_007 ✓	P1193_6679_007 PO-UP-22-SS-A-090313 10.04g ✓	10.040 ✓	2000	✓ 5119 ✓	26-MAR-09	01:23:42 ✓
090325P2	5	25 P1193_6679_008 ✓	P1193_6679_008 PO-UP-23B-SS-A-090313 10.02g ✓	10.020 ✓	2000	✓ 5423 ✓	26-MAR-09	02:13:51 ✓
090325P2	6	26 P1193_6679_009 ✓	P1193_6679_009 PO-AM-28-SS-A-090313 10.02g ✓	10.020 ✓	2000	✓ 5672 ✓	26-MAR-09	03:03:54 ✓
090325P2	7	27 P1193_6679_010 ✓	P1193_6679_010 B1-C16-SS-A-090313 10.04g ✓	10.040 ✓	2000	✓ 5953 ✓	26-MAR-09	03:54:17 ✓
090325P2	8	28 P1193_6679_011 ✓	P1193_6679_011 B1-S37-SS-A-090313 10.15g ✓	10.150 ✓	2000	✓ 0245 ✓	26-MAR-09	04:44:41 ✓

ok  
✓  
7 April 09



1613/8290 Sample Summary

Analytical Perspectives

[Form: DF]

Client ID: 0\_6679\_MB001  
 Lab ID: MBL\_6679\_DF\_SDS  
 Sample text: MBL\_6679\_DF\_SDS 0\_6679\_MB001  
 Filename: 090325P1  
 GC column ID: db-5  
 S: 4 Vial: 16  
 Cal: MM1\_DF\_07012007A\_25DEC08wt/Vol: 10.12  
 Stds: JS (split adj.): 2000 CS/SS: 800 ES: 2000  
 Acq: 25-MAR-09 16:50:24

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	*	* n	NotF>	1.08	*	824	2.5	0.0720	-
Ax	1,2,3,7,8-PeCDD	*	* n	NotF>	1.00	*	882	2.5	0.128	-
Ax	1,2,3,4,7,8-HxCDD	*	* n	NotF>	1.08	*	1443	2.5	0.204	-
Ax	1,2,3,6,7,8-HxCDD	*	* n	NotF>	0.94	*	1443	2.5	0.212	-
Ax	1,2,3,7,8,9-HxCDD	*	* n	NotF>	0.99	*	1443	2.5	0.214	-
Ax	1,2,3,4,6,7,8-HpCDD	*	* n	NotF>	0.97	*	452	2.5	0.0768	-
Ax	OCDD	*	* n	NotF>	1.06	*	714	2.5	0.233	-
Ax2	OCDD-a	*	* n	NotF>	0.06	*	386	2.5	2.12	-
Ax	2,3,7,8-TCDF	*	* n	NotF>	1.05	*	999	2.5	0.0562	-
Ax	1,2,3,7,8-PeCDF	*	* n	NotF>	0.98	*	871	2.5	0.0789	-
Ax	2,3,4,7,8-PeCDF	*	* n	NotF>	1.01	*	871	2.5	0.0692	-
Ax	1,2,3,4,7,8-HxCDF	*	* n	NotF>	1.22	*	1475	2.5	0.0885	-
Ax	1,2,3,6,7,8-HxCDF	*	* n	NotF>	1.15	*	1475	2.5	0.0859	-
Ax	2,3,4,6,7,8-HxCDF	*	* n	NotF>	1.13	*	1475	2.5	0.0850	-
Ax	1,2,3,7,8,9-HxCDF	*	* n	NotF>	1.12	*	1475	2.5	0.119	-
Ax	1,2,3,4,6,7,8-HpCDF	*	* n	NotF>	1.37	*	646	2.5	0.0448	-
Ax	1,2,3,4,7,8,9-HpCDF	*	* n	NotF>	1.32	*	646	2.5	0.0667	-
Ax	OCDF	*	* n	NotF>	0.94	*	985	2.5	0.233	-
Ax2	OCDF-a	*	* n	NotF>	0.05	*	406	2.5	1.71	-
ES	13C-2,3,7,8-TCDD	4.10e+07	0.82 y	27:15	0.99	144	422	2.5	0.0293	72.8
ES	13C-1,2,3,7,8-PeCDD	3.42e+07	1.67 y	32:49	0.83	143	5730	2.5	0.473	72.3
ES	13C-1,2,3,4,7,8-HxCDD	2.74e+07	1.28 y	36:45	1.08	154	11286	2.5	1.31	78.0
ES	13C-1,2,3,6,7,8-HxCDD	3.11e+07	1.30 y	36:52	1.23	155	11286	2.5	1.16	78.4
ES	13C-1,2,3,7,8,9-HxCDD	3.14e+07	1.29 y	37:11	1.21	158	11286	2.5	1.17	79.9
ES	13C-1,2,3,4,6,7,8-HpCDD	2.44e+07	1.09 y	40:22	0.98	151	5965	2.5	0.761	76.6
ES	13C-OCDD	2.60e+07	0.86 y	43:59	0.66	241	5749	2.5	1.09	60.9
ES	13C-2,3,7,8-TCDF	6.54e+07	0.77 y	26:20	0.96	169	273	2.5	0.0151	85.4
ES	13C-1,2,3,7,8-PeCDF	5.11e+07	1.59 y	31:19	0.85	148	7167	2.5	0.445	74.9
ES	13C-2,3,4,7,8-PeCDF	5.56e+07	1.58 y	32:27	0.88	155	7167	2.5	0.430	78.6
ES	13C-1,2,3,4,7,8-HxCDF	3.57e+07	0.53 y	35:47	1.47	148	20399	2.5	1.74	74.7
ES	13C-1,2,3,6,7,8-HxCDF	4.04e+07	0.53 y	35:55	1.78	139	20399	2.5	1.44	70.2
ES	13C-2,3,4,6,7,8-HxCDF	4.18e+07	0.52 y	36:34	1.61	158	20399	2.5	1.59	80.1
ES	13C-1,2,3,7,8,9-HxCDF	3.33e+07	0.54 y	37:33	1.40	145	20399	2.5	1.83	73.4
ES	13C-1,2,3,4,6,7,8-HpCDF	2.68e+07	0.45 y	39:11	1.16	141	11625	2.5	1.26	71.3
ES	13C-1,2,3,4,7,8,9-HpCDF	2.17e+07	0.45 y	40:57	0.92	144	11625	2.5	1.58	72.7
ES	13C-OCDF	4.28e+07	0.89 y	44:13	1.04	251	7905	2.5	0.956	63.6
CS	37C1-2,3,7,8-TCDD	1.72e+07		27:17	0.99	60.7			0.184	76.8
CS	13C-1,2,3,4,7-PeCDD	2.84e+07	1.69 y	32:18	0.77	129	5730	2.5	0.513	65.0
CS	13C-1,2,3,4,6-PeCDF	5.11e+07	1.58 y	30:47	0.79	159	7167	2.5	0.479	80.5
CS	13C-1,2,3,4,6,9-HxCDF	3.79e+07	0.52 y	36:14	1.41	164	20399	2.5	1.81	82.9
CS	13C-1,2,3,4,6,8,9-HpCDF	2.41e+07	0.46 y	39:41	0.91	161	11625	2.5	1.60	81.7
NA	n/a	*	* n	NotF>	Div0	*	1955	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	5.67e+07	0.83 y	26:35	-	16.0	422	2.5	-	-
JS	13C-1,2,3,4-TCDF	8.00e+07	0.78 y	24:56	-	14.2	273	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	1.62e+07	1.28 y	37:04	-	7.36	1801	2.5	-	-

SC

Analyst: *[Signature]*

Date: *[Signature]*

*[Signature]*  
7 April 09

SS	37Cl-2,3,7,8-TCDD	1.72e+07		27:17	1.00	83.0		0.250	105
SS	13C-1,2,3,4,7-PeCDD	2.84e+07	1.69 y	32:18	0.93	177	5730 2.5	0.892	89.4
SS	13C-1,2,3,4,6-PeCDF	5.11e+07	1.58 y	30:47	0.94	211	7167 2.5	0.683	107
SS	13C-1,2,3,4,6,9-HxCDF	3.79e+07	0.52 y	36:14	0.80	232	20399 2.5	1.71	117
SS	13C-1,2,3,4,6,8,9-HpCDF	2.41e+07	0.46 y	39:41	0.79	224	11625 2.5	1.39	114
SBS	2,4,6,8-TCDF	*	* n	NotF»	1.05	*	999 2.5	0.0562	-
Ay	1,3,6,8-TCDD	*	* n	NotF»	1.08	*	824 2.5	0.0720	-
Ay	1,2,3,9-TCDD	*	* n	NotF»	1.08	*	824 2.5	0.0720	-
Ay	1,2,8,9-TCDD	*	* n	NotF»	1.08	*	824 2.5	0.0720	-
Ay	1,2,4,7,9-PeCDD	*	* n	NotF»	1.00	*	882 2.5	0.128	-
Ay	1,2,3,8,9-PeCDD	*	* n	NotF»	1.00	*	882 2.5	0.128	-
Ay	1,2,4,6,7,9-HxCDD	*	* n	NotF»	1.00	*	1443 2.5	0.210	-
Ay	1,2,3,4,6,7,9-HpCDD	*	* n	NotF»	0.97	*	452 2.5	0.0768	-
Ay	1,3,6,8-TCDF	*	* n	NotF»	1.05	*	999 2.5	0.0562	-
Ay	2,3,4,8-TCDF	*	* n	NotF»	1.05	*	999 2.5	0.0562	-
Ay	1,2,8,9-TCDF	*	* n	NotF»	1.05	*	999 2.5	0.0562	-
Ay	1,3,4,6,8-PeCDF	*	* n	NotF»	1.05	*	511 2.5	0.0287	-
Ay	1,2,3,8,9-PeCDF	*	* n	NotF»	1.00	*	871 2.5	0.0738	-
Ay	1,2,3,4,6,8-HxCDF	*	* n	NotF»	1.15	*	1475 2.5	0.0934	-
Tot	Total Tetra-Dioxins	*	* n	NotF»	1.08	*	824 2.5	0.0720	-
Tot	Total Penta-Dioxins	*	* n	NotF»	1.00	*	882 2.5	0.128	-
Tot	Total Hexa-Dioxins	*	* n	NotF»	1.00	*	1443 2.5	0.210	-
Tot	Total Hepta-Dioxins	*	* n	NotF»	0.97	*	452 2.5	0.0768	-
Tot	Total Tetra-Furans	*	* n	NotF»	1.05	*	999 2.5	0.0562	-
Tot	Total Penta-Furans	*	* n	NotF»	1.00	*	871 2.5	0.0738	-
Tot	Total Hexa-Furans	*	* n	NotF»	1.15	*	1475 2.5	0.0934	-
Tot	Total Hepta-Furans	*	* n	NotF»	1.35	*	646 2.5	0.0544	-
Tot	TCDD EMPC	*	* n	NotF»	1.08	*	824 2.5	0.0720	-
Tot	PeCDD EMPC	*	* n	NotF»	1.00	*	882 2.5	0.128	-
Tot	HxCDD EMPC	*	* n	NotF»	1.00	*	1443 2.5	0.210	-
Tot	HpCDD EMPC	*	* n	NotF»	0.97	*	452 2.5	0.0768	-
Tot	TCDF EMPC	*	* n	NotF»	1.05	*	999 2.5	0.0562	-
Tot	PeCDF EMPC	*	* n	NotF»	1.00	*	871 2.5	0.0738	-
Tot	HxCDF EMPC	*	* n	NotF»	1.15	*	1475 2.5	0.0934	-
Tot	HpCDF EMPC	*	* n	NotF»	1.35	*	646 2.5	0.0544	-
AS	13C-1,3,6,8-TCDD	3.98e+07	0.82 y	23:23	1.09	128	422 2.5	0.0268	64.6
AS	13C-1,3,6,8-TCDF	7.02e+07	0.79 y	21:13	1.09	159	273 2.5	0.0133	80.5
DPE	HxCdPE	*		NotF»	-	*		-	-
DPE	HpCdPE	*		NotF»	-	*		-	-
DPE	OCDPE	*		NotF»	-	*		-	-
DPE	NCDPE	*		NotF»	-	*		-	-
DPE	DCDPE	*		NotF»	-	*		-	-
LMC	Fn1 check mass	*		NotF»	-	*		-	-
LMC	Fn2 check mass	*		NotF»	-	*		-	-
LMC	Fn3 check mass	*		NotF»	-	*		-	-
LMC	Fn4 check mass	*		NotF»	-	*		-	-
LMC	Fn5 check mass	*		NotF»	-	*		-	-



Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDD EMPC Function: 1 Run #: 11 Checkcode: 1074  
 File Name: 090325P1 Sample #: 4 Sample text: MBI\_6679\_DF\_SDS 0\_6679\_MB001

Acquired: 25-MAR-09 16:50:24 Processed: 26-MAR-09 08:40:39

Total Conc.: \* Unnamed Conc.: \* Homolog count: 0

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
NotF*	*	n	*	n	*	*	*	n	*	

Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDD EMPC Function: 2 Run #: 11 Checkcode: 1074  
 File Name: 090325P1 Sample #: 4 Sample text: MBI\_6679\_DF\_SDS 0\_6679\_MB001

Acquired: 25-MAR-09 16:50:24 Processed: 26-MAR-09 08:40:39

Total Conc.: \* Unnamed Conc.: \* Homolog count: 0

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
NotF*	*	n	*	n	*	*	*	n	*	

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDD EMPC Function: 3 Run #: 11 Checkcode: 1074  
 File Name: 090325P1 Sample #: 4 Sample text: MBI\_6679\_DF\_SDS 0\_6679\_MB001

Acquired: 25-MAR-09 16:50:24 Processed: 26-MAR-09 08:40:39

Total Conc.: \* Unnamed Conc.: \* Homolog count: 0

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
NotF*	*	n	*	n	*	*	*	n	*	

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HpCDD EMPC Function: 4 Run #: 11 Checkcode: 1074  
 File Name: 090325P1 Sample #: 4 Sample text: MBI\_6679\_DF\_SDS 0\_6679\_MB001

Acquired: 25-MAR-09 16:50:24 Processed: 26-MAR-09 08:40:39

Total Conc.: \* Unnamed Conc.: \* Homolog count: 0

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
NotF*	*	n	*	n	*	*	*	n	*	

Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDF EMPC Function: 1 Run #: 11 Checkcode: 1074  
 File Name: 090325P1 Sample #: 4 Sample text: MBI\_6679\_DF\_SDS 0\_6679\_MB001

Acquired: 25-MAR-09 16:50:24 Processed: 26-MAR-09 08:40:39

Total Conc.: \* Unnamed Conc.: \* Homolog count: 0

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
NotF»		* n		* n	* n	*		* *	n	*
Totals Results		Analytical Perspectives				[Form: TOT]				
Totals class: PeCDF EMPC					Function: 2 Run #: 11			Checkcode: 1074		
File Name: 090325P1		Sample #: 4		Sample text: MB1_6679_DF_SDS 0_6679_MB001						
Acquired: 25-MAR-09 16:50:24				Processed: 26-MAR-09 08:40:39						
Total Conc.: *			Unnamed Conc.: *			Homolog count: 0				

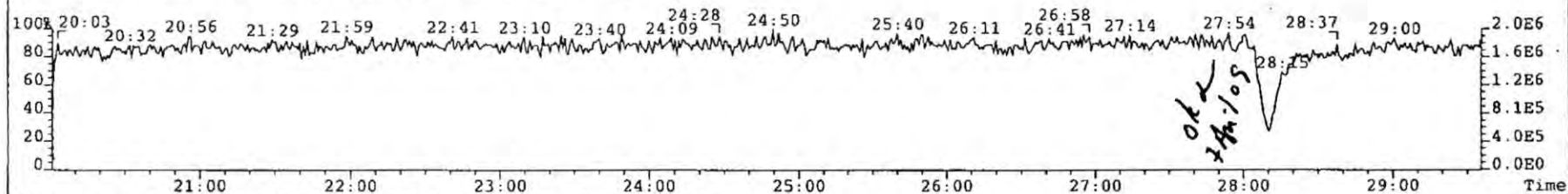
RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
NotF»		* n		* n	* n	*		* *	n	*
Totals Results		Analytical Perspectives				[Form: TOT]				
Totals class: HxCDF EMPC					Function: 3 Run #: 11			Checkcode: 1074		
File Name: 090325P1		Sample #: 4		Sample text: MB1_6679_DF_SDS 0_6679_MB001						
Acquired: 25-MAR-09 16:50:24				Processed: 26-MAR-09 08:40:39						
Total Conc.: *			Unnamed Conc.: *			Homolog count: 0				

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
NotF»		* n		* n	* n	*		* *	n	*
Totals Results		Analytical Perspectives				[Form: TOT]				
Totals class: HpCDF EMPC					Function: 4 Run #: 11			Checkcode: 1074		
File Name: 090325P1		Sample #: 4		Sample text: MB1_6679_DF_SDS 0_6679_MB001						
Acquired: 25-MAR-09 16:50:24				Processed: 26-MAR-09 08:40:39						
Total Conc.: *			Unnamed Conc.: *			Homolog count: 0				

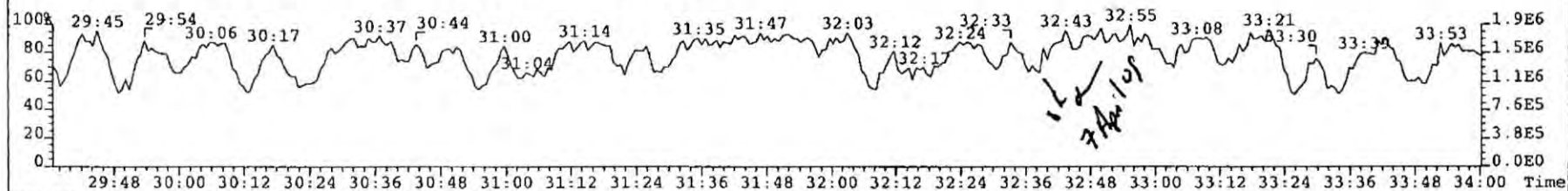
RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
NotF»		* n		* n	* n	*		* *	n	*



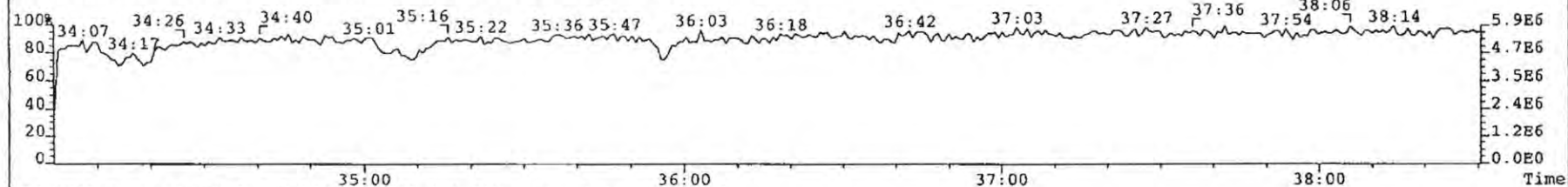
File: 090325P1 Acq: 25-MAR-2009 16:50:24 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: MB1\_6679\_DF\_SDS 0\_6679\_MB001 Vial# 16 File Text: AP DB5  
316.9824 S:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



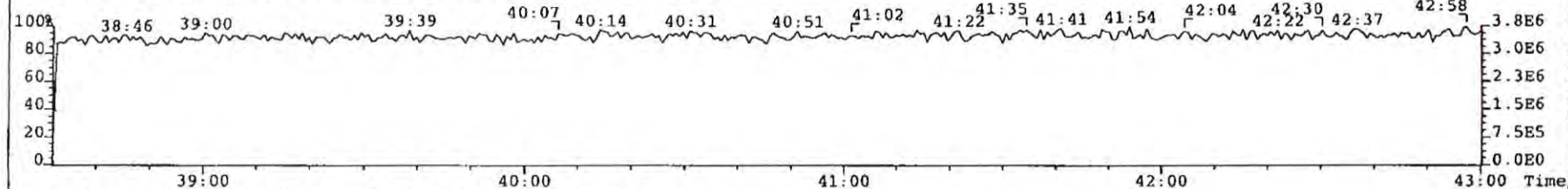
366.9792 S:4 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



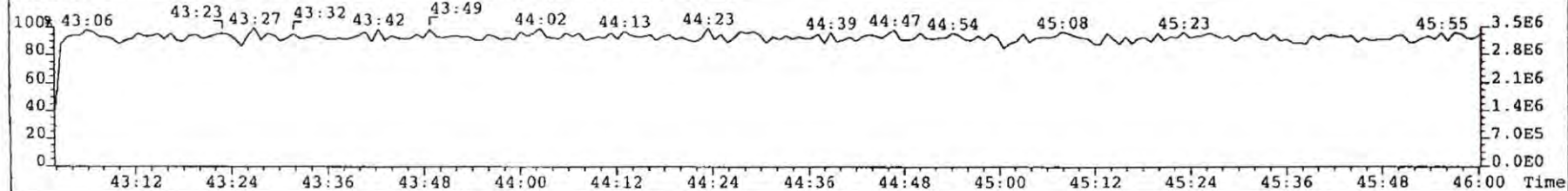
380.9760 S:4 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



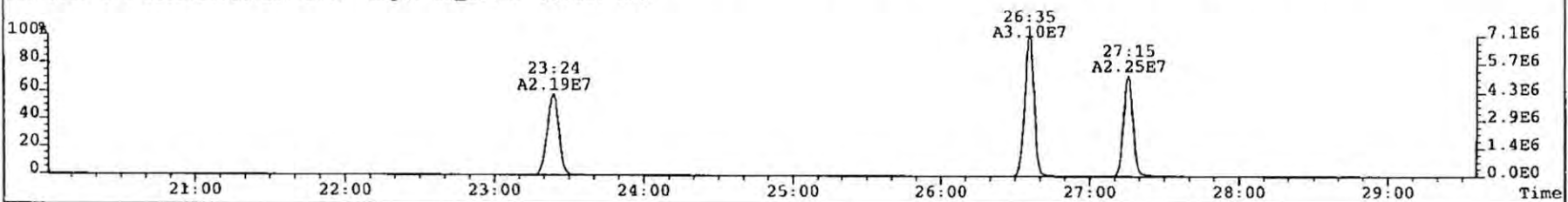
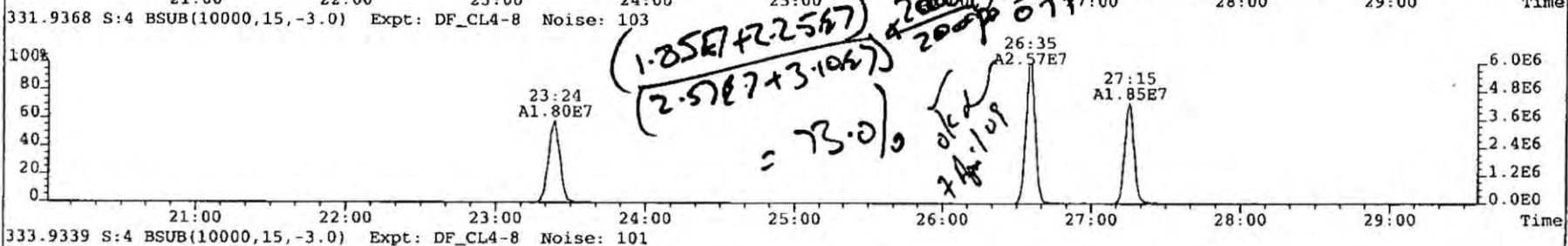
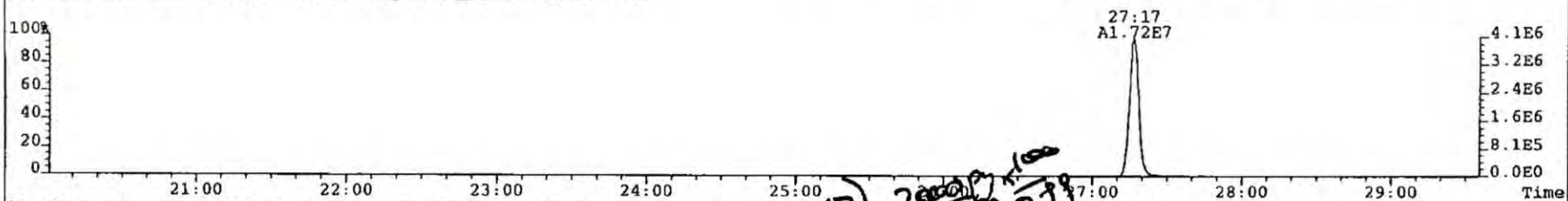
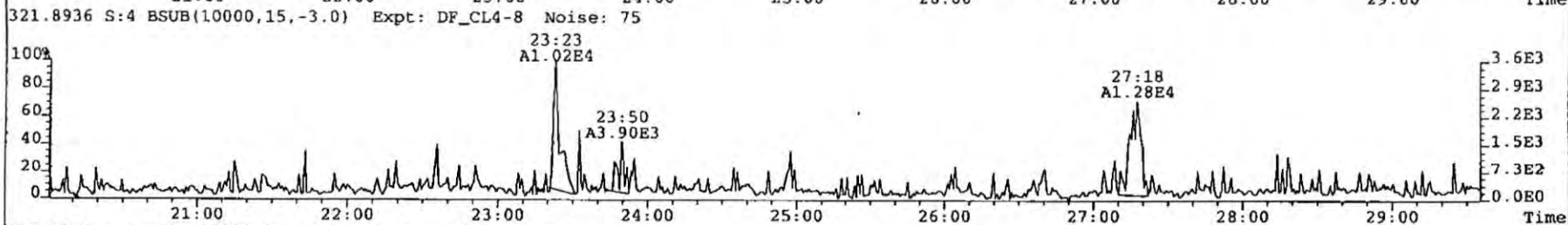
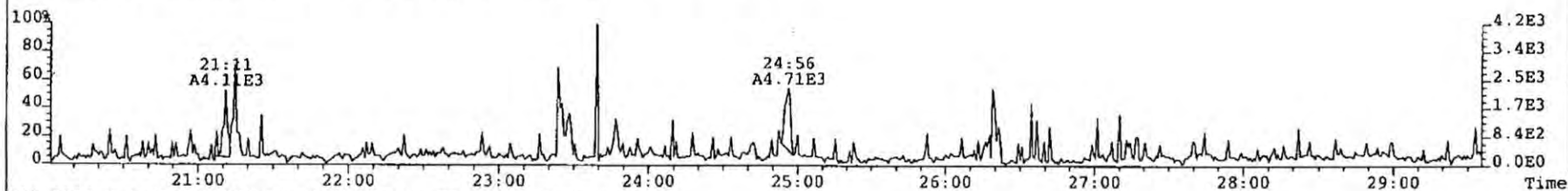
430.9728 S:4 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



454.9728 S:4 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

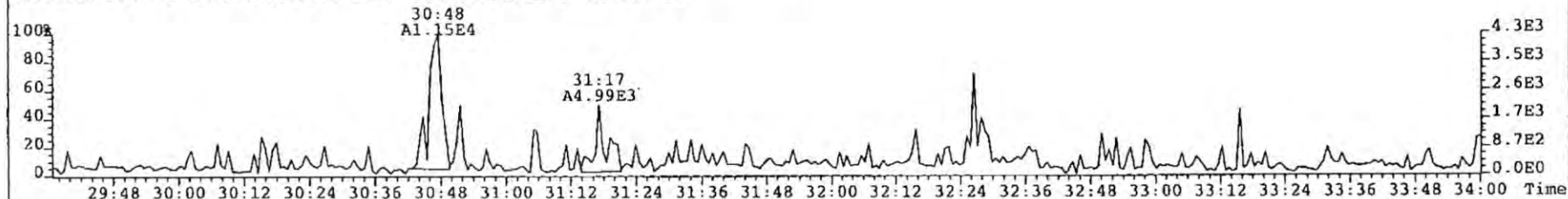


File: 090325P1 Acq: 25-MAR-2009 16:50:24 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: MB1\_6679\_DF\_SDS 0\_6679\_MB001 Vial# 16 File Text: AP DB5  
319.8965 S:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 76

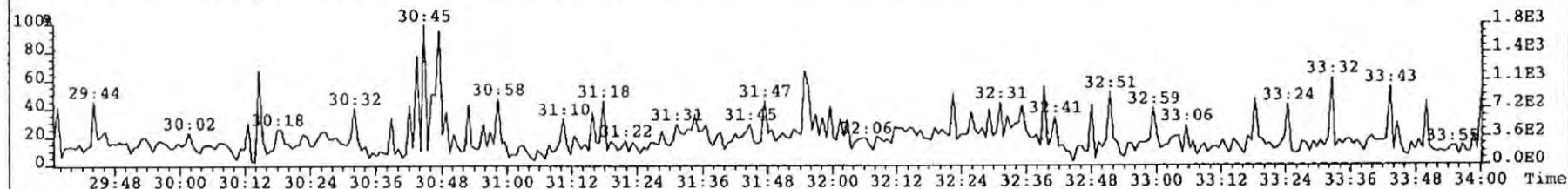




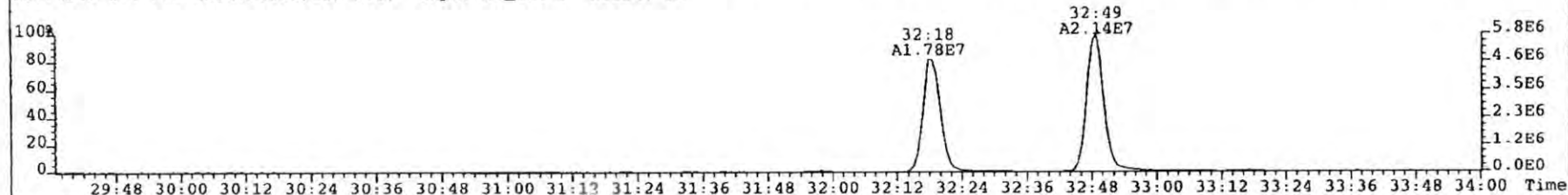
File: 090325PI Acq: 25-MAR-2009 16:50:24 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: MBL\_6679\_DF\_SDS 0\_6679\_MB001 Vial# 16 File Text: AP DB5  
355.8546 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 90



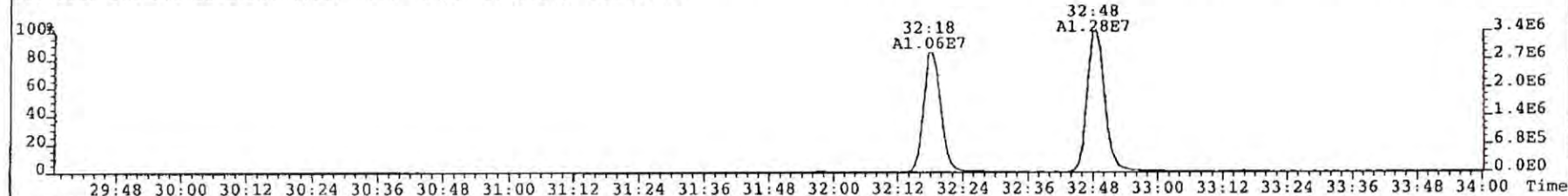
357.8517 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 90



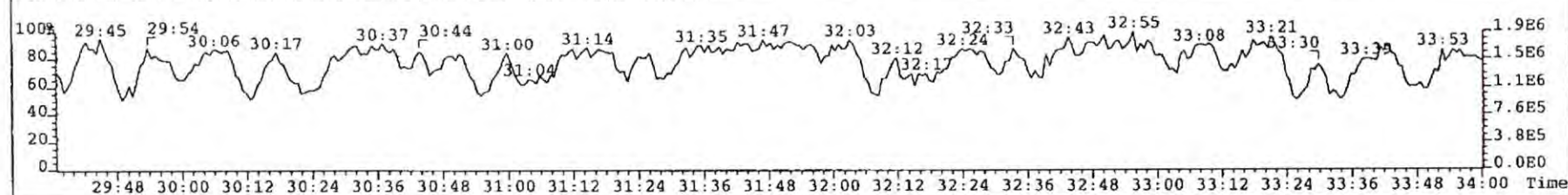
367.8949 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 95



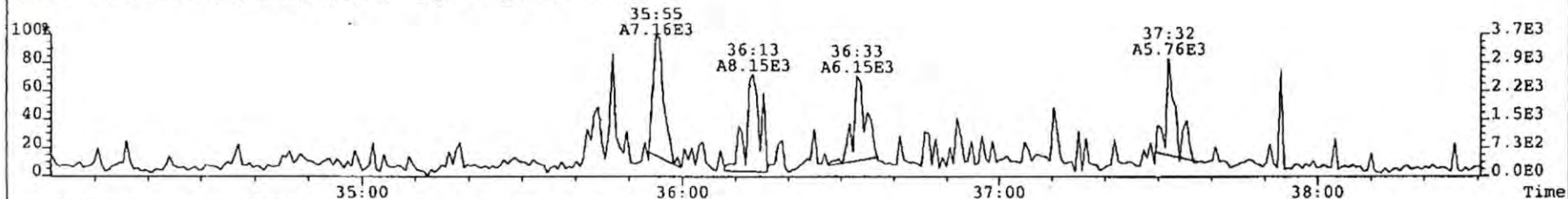
369.8919 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 84



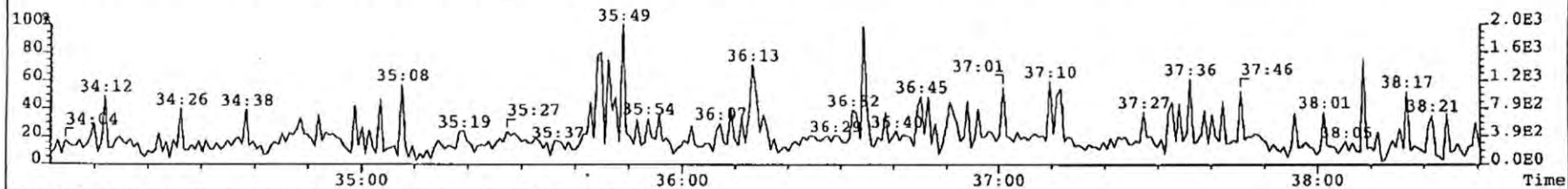
366.9792 S:4 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



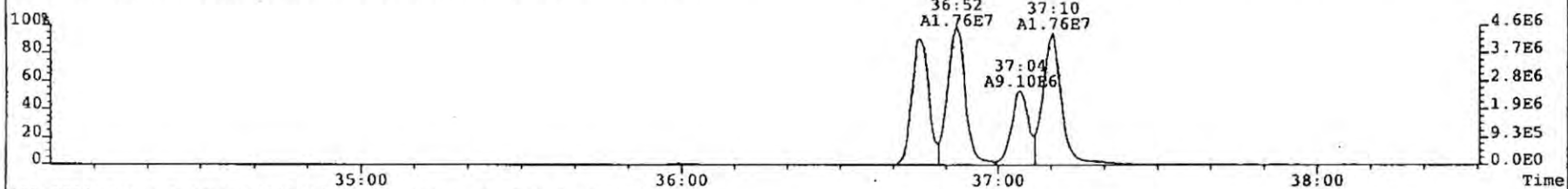
File: 090325PI Acq: 25-MAR-2009 16:50:24 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: MBI\_6679\_DF\_SDS 0\_6679\_MB001 Vial# 16 File Text: AP DB5  
389.8156 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 94



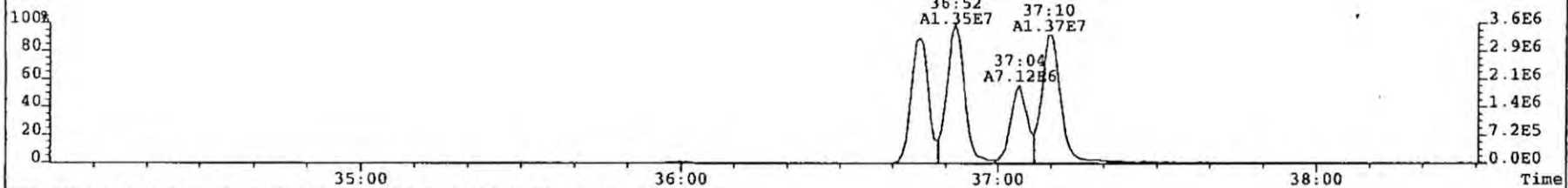
391.8127 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 94



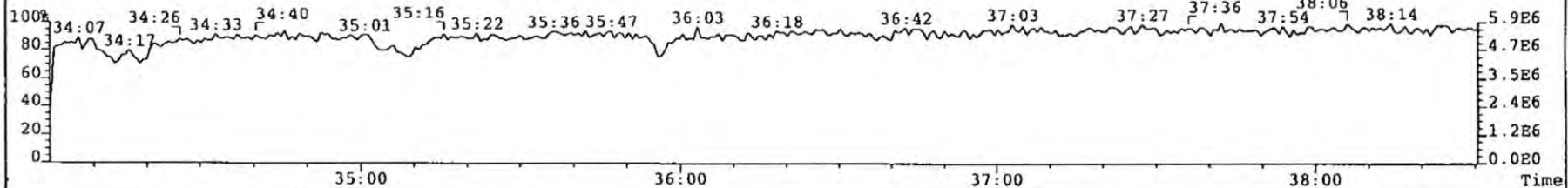
401.8559 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 97



403.8530 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 94

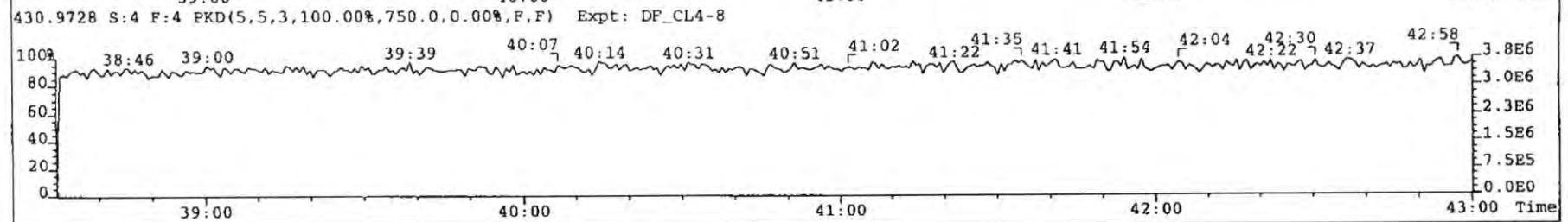
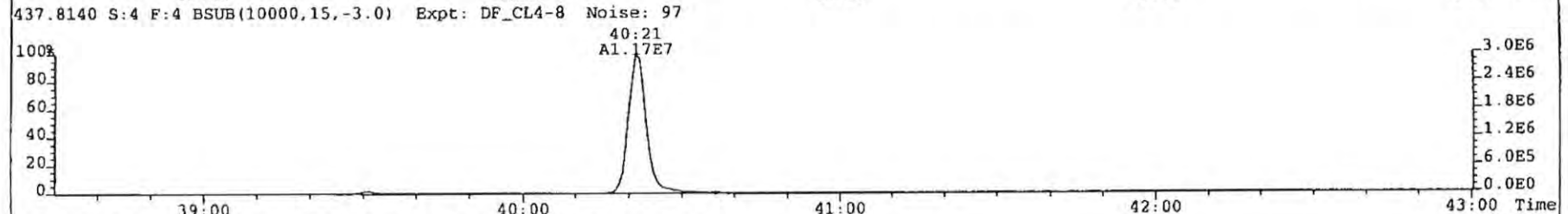
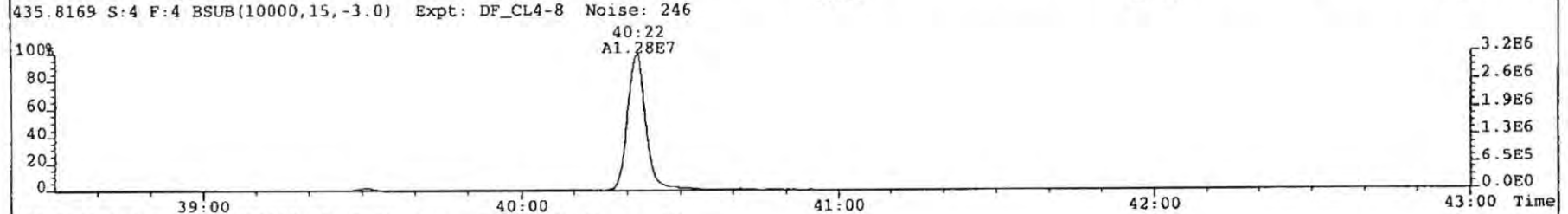
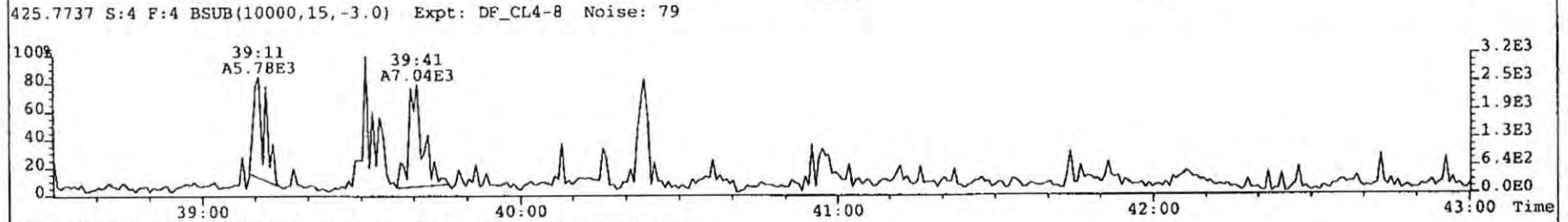
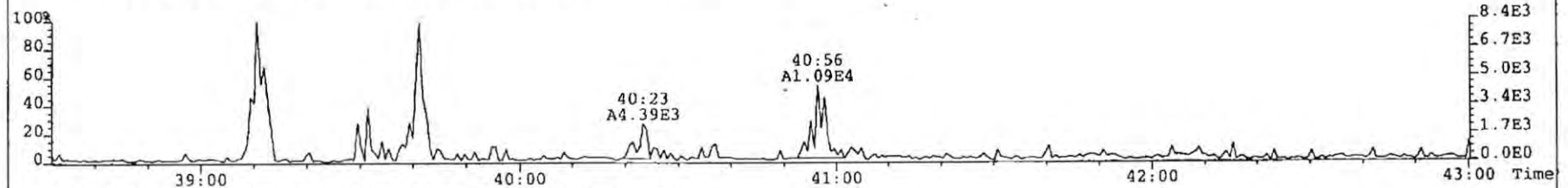


380.9760 S:4 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

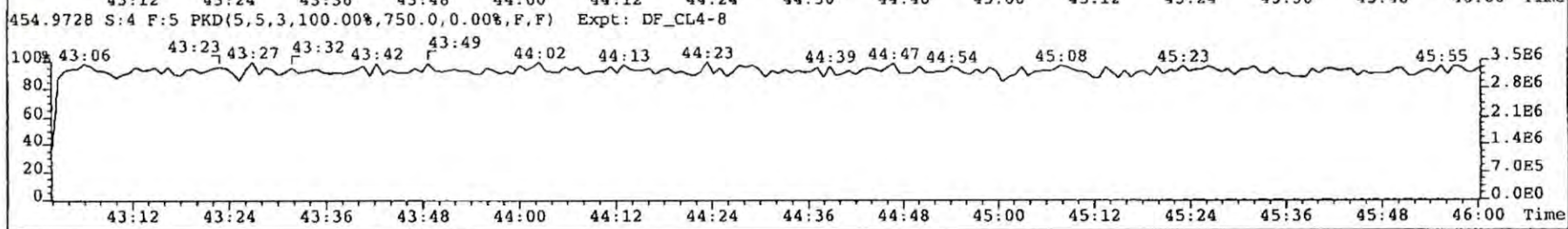
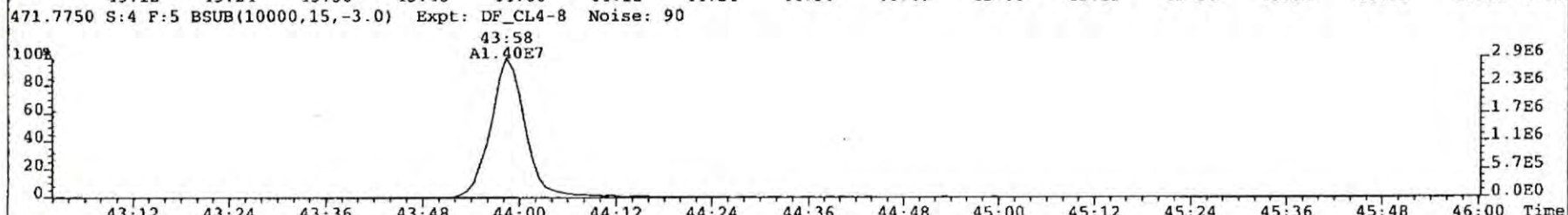
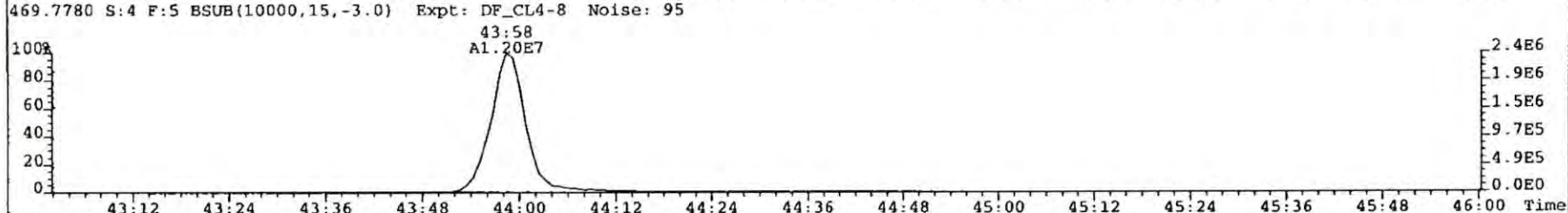
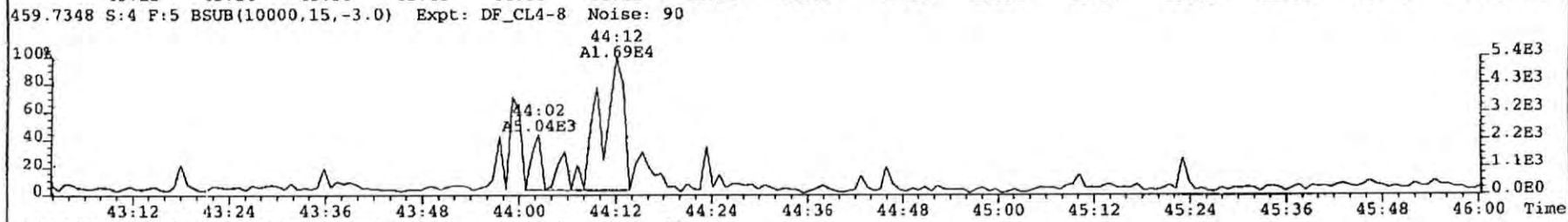
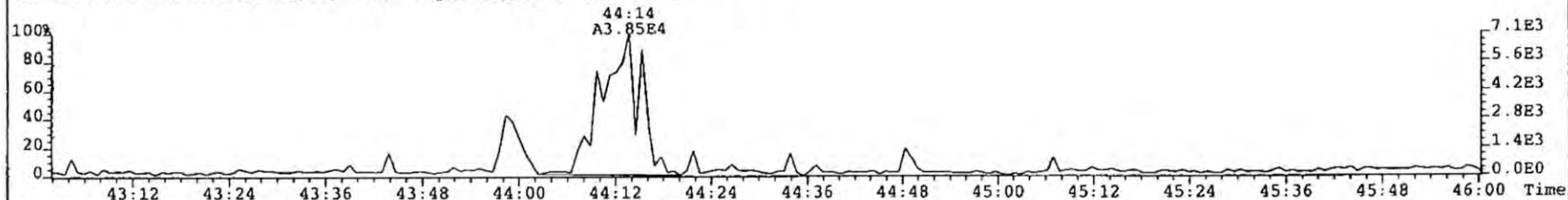




File: 090325P1 Acq: 25-MAR-2009 16:50:24 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: MB1\_6679\_DF\_SDS 0\_6679\_MB001 Vial# 16 File Text: AP DB5  
423.7767 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 66

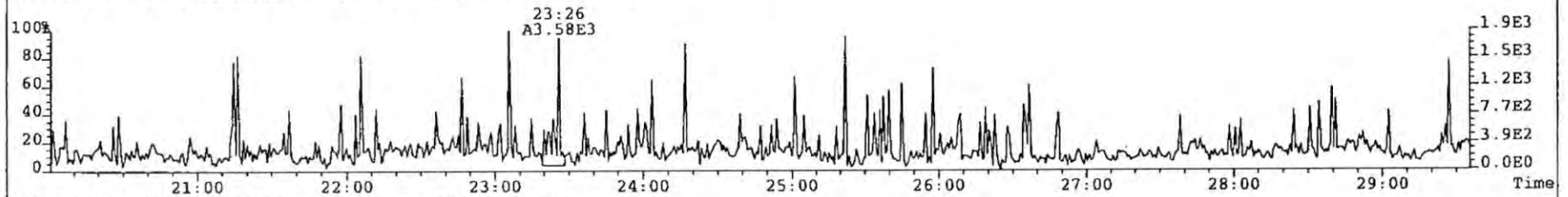


File: 090325P1 Acq: 25-MAR-2009 16:50:24 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: MB1\_6679\_DF\_SDS 0\_6679\_MB001 Vial# 16 File Text: AP DB5  
457.7377 S:4 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 75

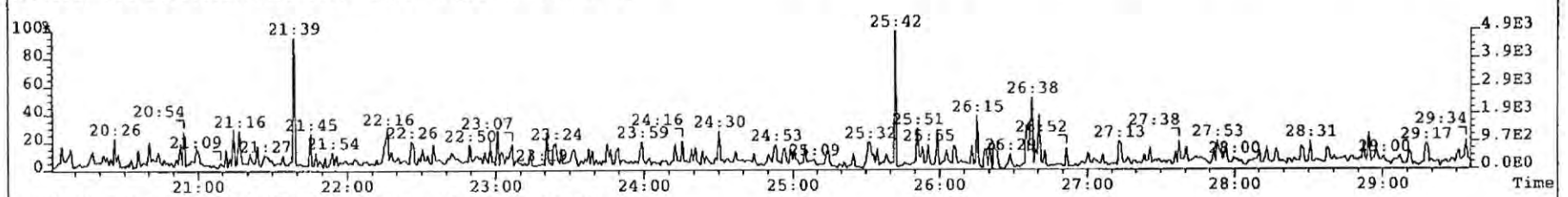




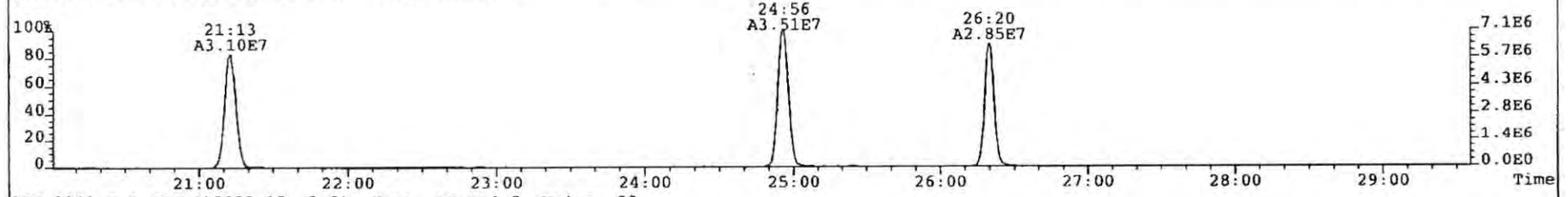
File: 090325P1 Acq: 25-MAR-2009 16:50:24 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: MBI\_6679\_DF\_SDS 0\_6679\_MB001 Vial# 16 File Text: AP DBS  
303.9016 S:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 71



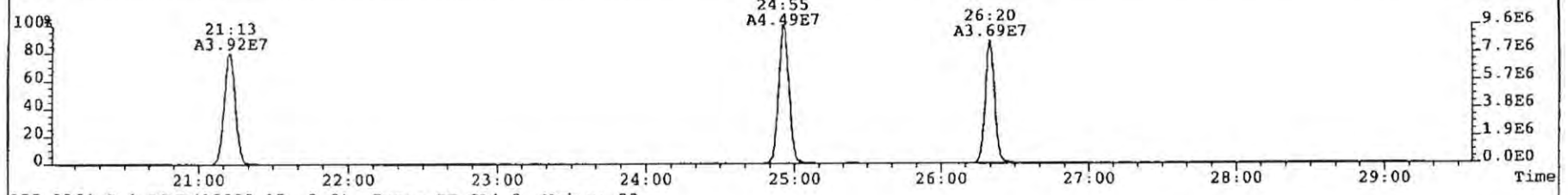
305.8987 S:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 82



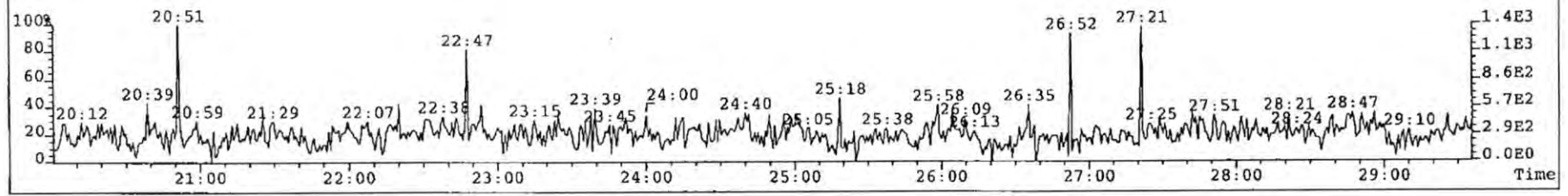
315.9419 S:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 119



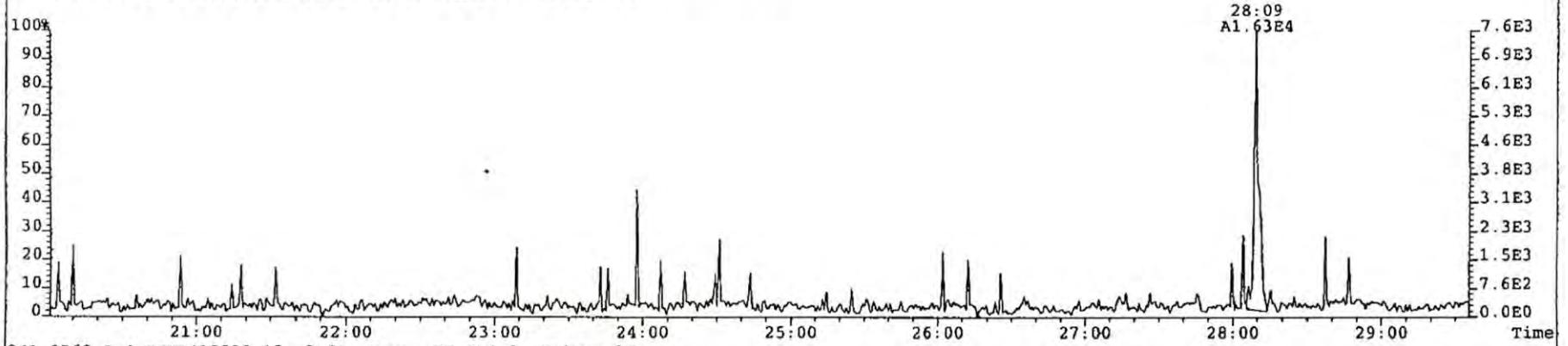
317.9389 S:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 93



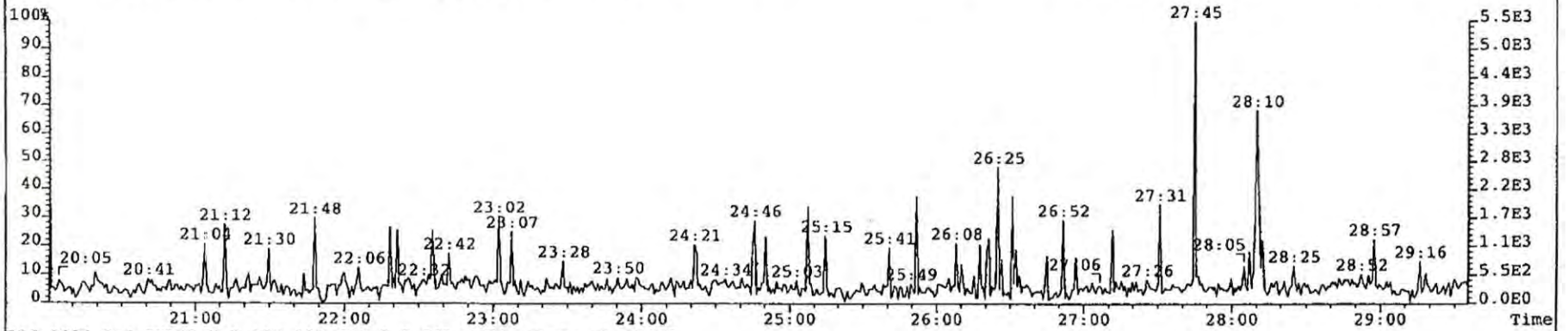
375.8364 S:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 90



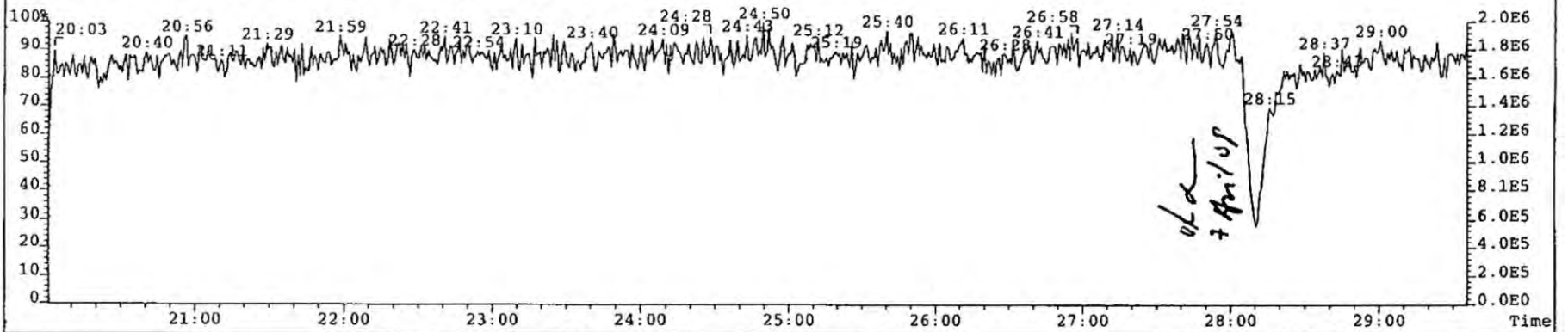
File: 090325P1 Acq: 25-MAR-2009 16:50:24 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: MBI\_6679\_DF\_SDS 0\_6679\_MB001 Vial# 16 File Text: AP DB5  
339.8597 S:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 92



341.8568 S:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 96

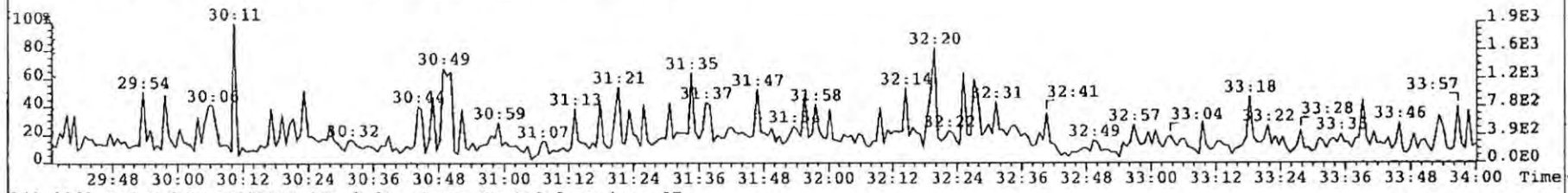


316.9824 S:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

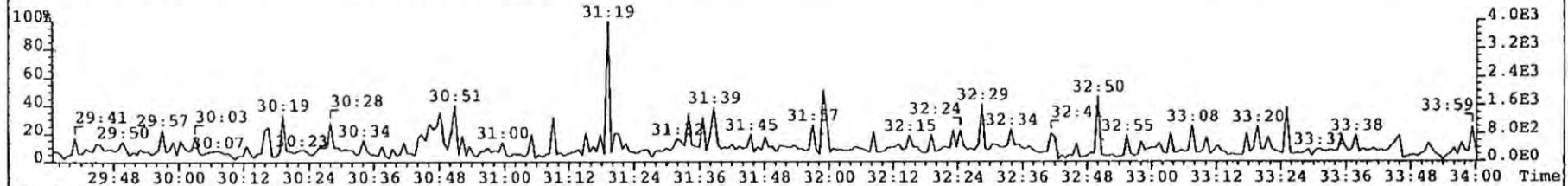




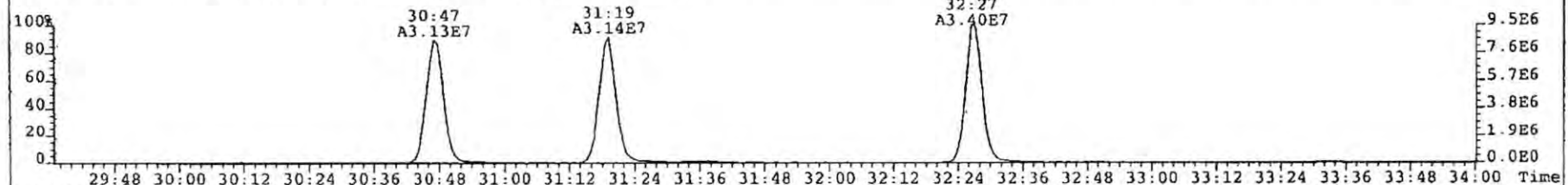
File: 090325P1 Acq: 25-MAR-2009 16:50:24 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: MBI\_6679\_DF\_SDS 0\_6679\_MB001 Vial# 16 File Text: AP DB5  
339.8597 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 92



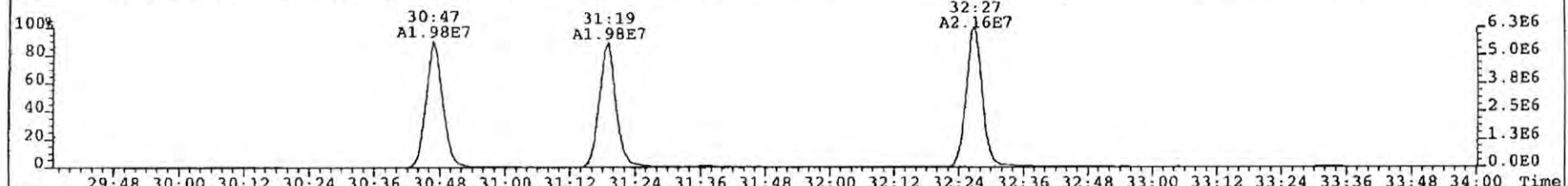
341.8568 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 97



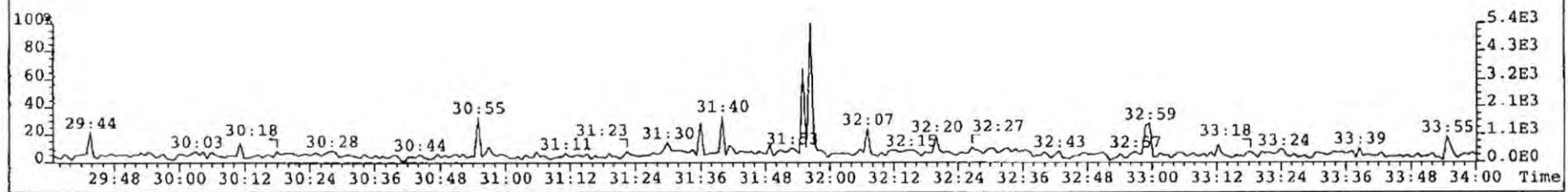
351.9000 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1838



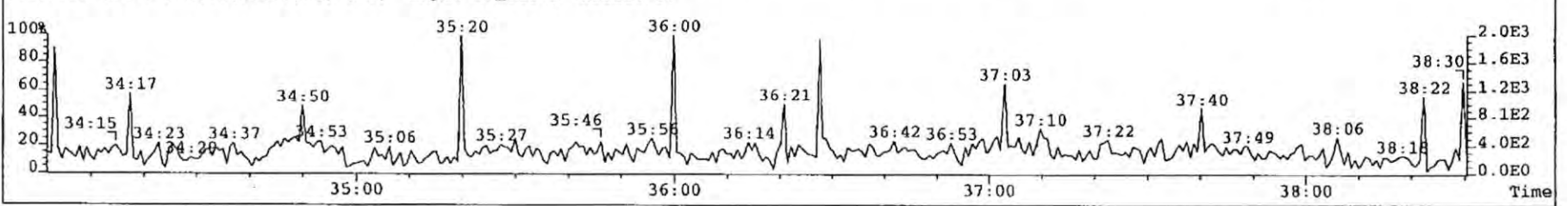
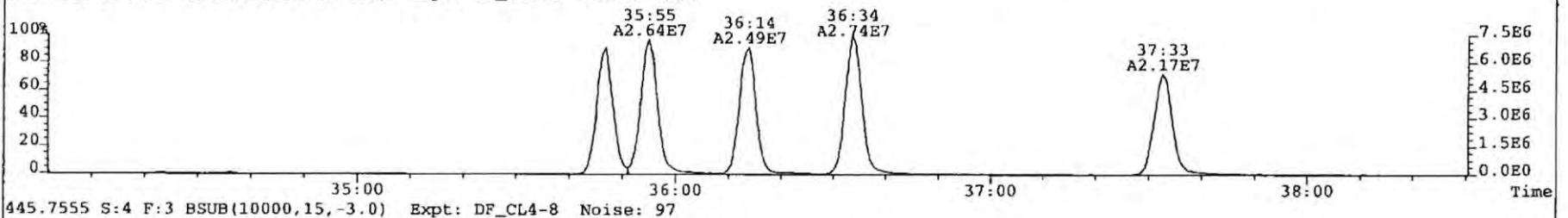
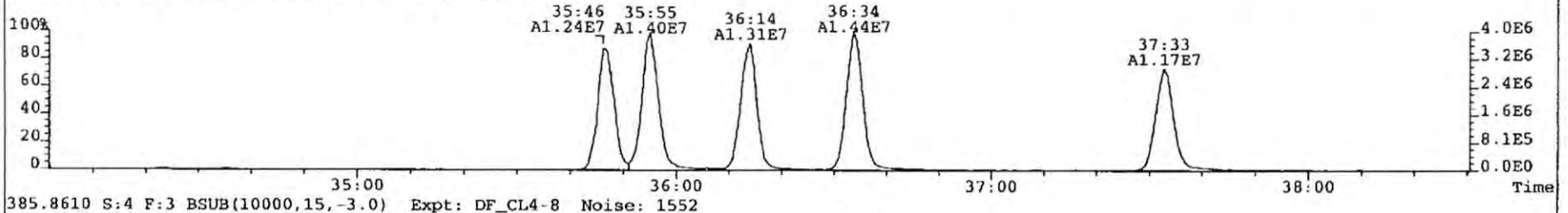
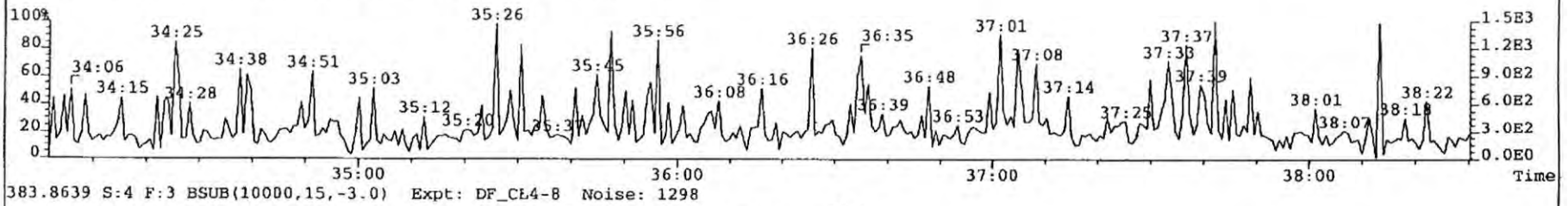
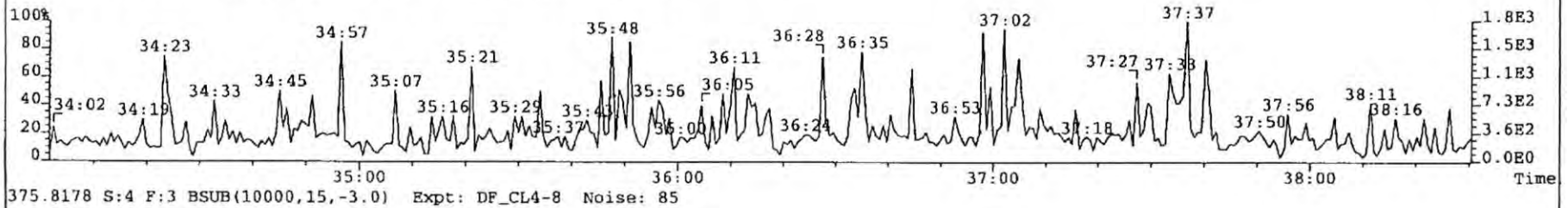
353.8970 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1922



409.7974 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 96

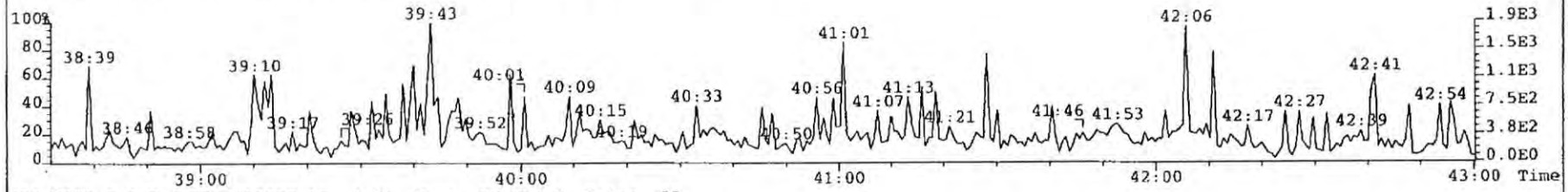


File: 090325P1 Acq: 25-MAR-2009 16:50:24 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: MBI\_6679\_DF\_SDS 0\_6679\_MB001 Vial# 16 File Text: AP DB5  
373.8207 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 91

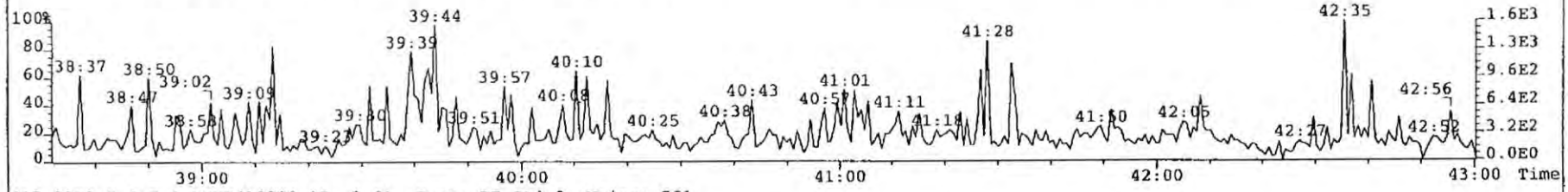




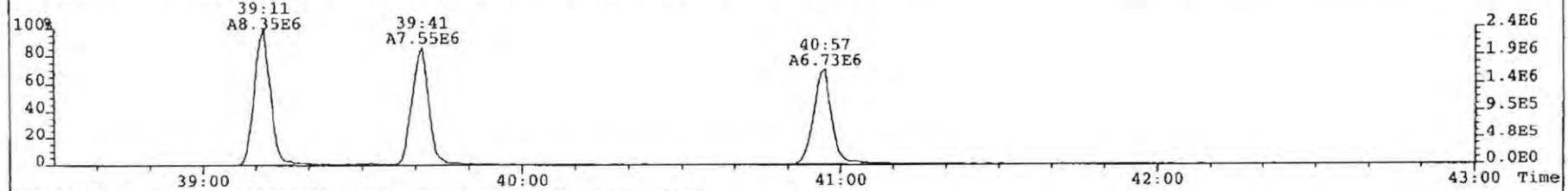
File: 090325P1 Acq: 25-MAR-2009 16:50:24 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: MBL\_6679\_DF\_SDS 0\_6679 MB001 Vial# 16 File Text: AP DB5  
407.7818 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 90



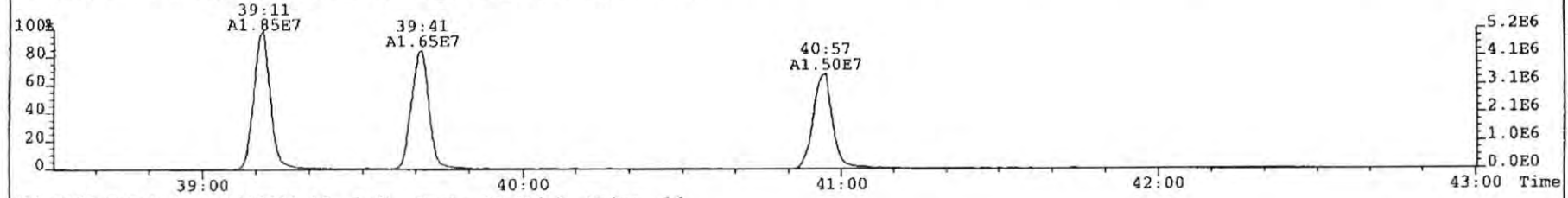
409.7788 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 77



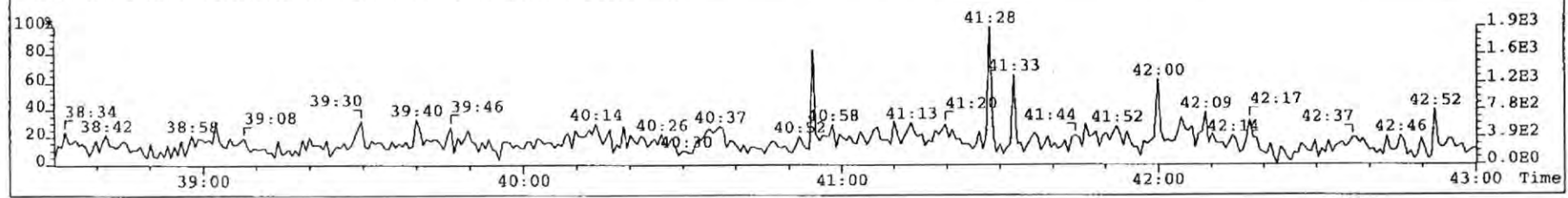
417.8253 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 501



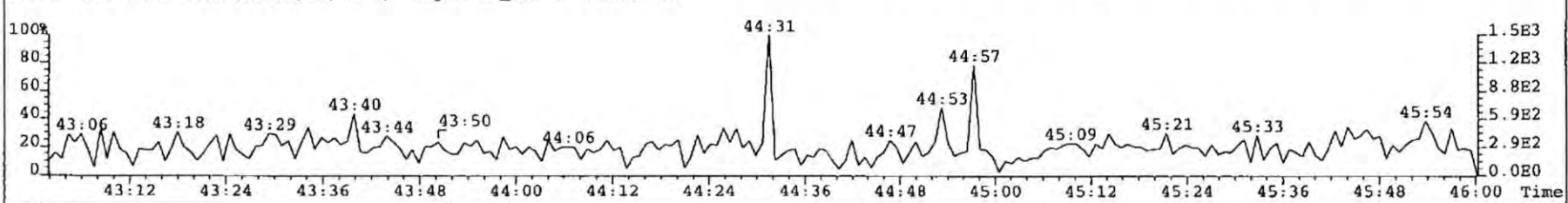
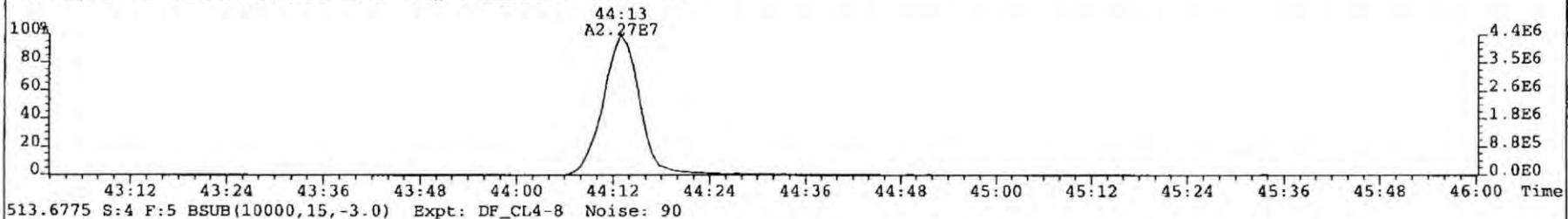
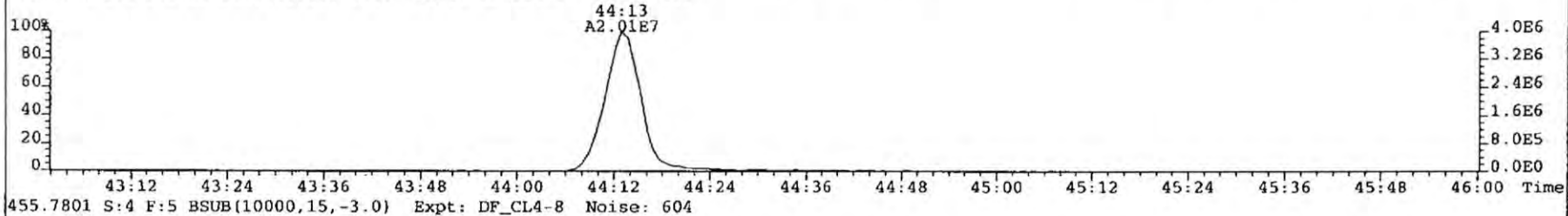
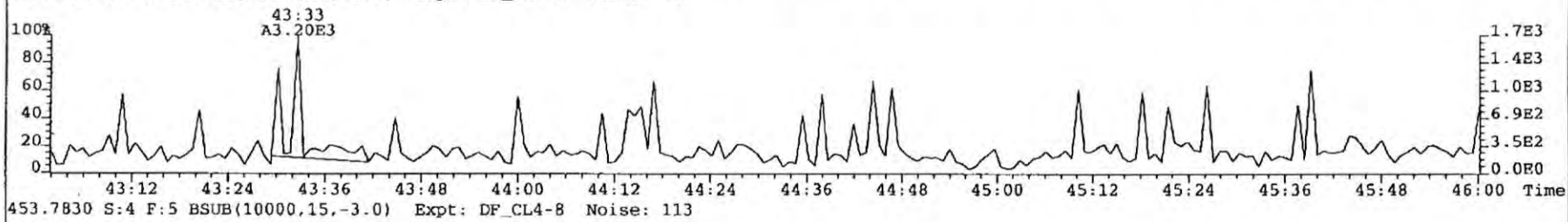
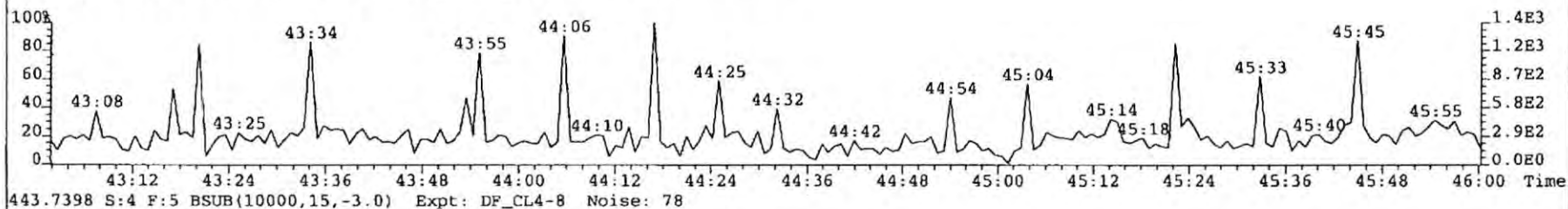
419.8220 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1512



479.7165 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 96



File: 090325P1 Acq: 25-MAR-2009 16:50:24 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: MBI\_6679\_DF\_SDS 0\_6679\_MB001 Vial# 16 File Text: AP DB5  
441.7428 S:4 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 80





1613/8290 Sample Summary

Analytical Perspectives

[Form: DF]

Client ID: PO-BA-24-SS-A-090313      Filename: 090325P1      S: 5      Vial: 18      Acq: 25-MAR-09 17:40:33  
 Lab ID: P1193\_6679\_001      GC column ID: db-5      Cal: MM1\_DF\_07012007A\_25DEC08Wt/Vol: 10.26  
 Sample text: P1193\_6679\_001 PO-BA-24-SS-A-090313 10.26g      Stds: JS (split adj.): 2000      CS/SS: 800      ES: 2000

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	*	* n	NotF>	1.08	*	873	2.5	0.0901	-
Ax	1,2,3,7,8-PeCDD	*	* n	NotF>	1.00	*	824	2.5	0.142	-
Ax	1,2,3,4,7,8-HxCDD	*	* n	NotF>	1.08	*	1368	2.5	0.220	-
Ax	1,2,3,6,7,8-HxCDD	2.04e+04	1.41 y	36:54	0.94	0.190	1368	2.5	0.245	-
Ax	1,2,3,7,8,9-HxCDD	*	* n	NotF>	0.99	*	1368	2.5	0.259	-
Ax	1,2,3,4,6,7,8-HpCDD	4.01e+05	1.02 y	40:24	0.97	4.57	661	2.5	0.130	-
Ax	OCDD	2.35e+06	0.84 y	44:00	1.06	43.1	1610	2.5	0.590	-
Ax2	OCDD-a	1.40e+05	2.68 y	44:00	0.06	43.2	529	2.5	3.25	-
Ax	2,3,7,8-TCDF	*	* n	NotF>	1.05	*	792	2.5	0.0577	-
Ax	1,2,3,7,8-PeCDF	*	* n	NotF>	0.98	*	1237	2.5	0.138	-
Ax	2,3,4,7,8-PeCDF	*	* n	NotF>	1.01	*	1237	2.5	0.124	-
Ax	1,2,3,4,7,8-HxCDF	*	* n	NotF>	1.22	*	642	2.5	0.0484	-
Ax	1,2,3,6,7,8-HxCDF	*	* n	NotF>	1.15	*	642	2.5	0.0449	-
Ax	2,3,4,6,7,8-HxCDF	1.26e+04	1.29 y	36:36	1.13	0.0716	642	2.5	0.0470	-
Ax	1,2,3,7,8,9-HxCDF	*	* n	NotF>	1.12	*	642	2.5	0.0658	-
Ax	1,2,3,4,6,7,8-HpCDF	1.39e+05	0.94 y	39:14	1.37	0.973	1074	2.5	0.0825	-
Ax	1,2,3,4,7,8,9-HpCDF	9.92e+03	1.04 y	40:59	1.32	0.0902	1074	2.5	0.130	-
Ax	OCDF	1.42e+05	0.92 y	44:15	0.94	1.80	1704	2.5	0.455	-
Ax2	OCDF-a	*	* n	NotF>	0.05	*	405	2.5	1.92	-
ES	13C-2,3,7,8-TCDD	3.20e+07	0.82 y	27:16	0.99	143	1808	2.5	0.156	73.3
ES	13C-1,2,3,7,8-PeCDD	2.54e+07	1.64 y	32:50	0.83	135	7895	2.5	0.809	69.1
ES	13C-1,2,3,4,7,8-HxCDD	2.02e+07	1.31 y	36:46	1.08	146	6830	2.5	0.947	74.9
ES	13C-1,2,3,6,7,8-HxCDD	2.21e+07	1.25 y	36:53	1.23	141	6830	2.5	0.837	72.5
ES	13C-1,2,3,7,8,9-HxCDD	2.21e+07	1.26 y	37:11	1.21	143	6830	2.5	0.848	73.4
ES	13C-1,2,3,4,6,7,8-HpCDD	1.76e+07	1.09 y	40:23	0.98	140	4898	2.5	0.748	72.0
ES	13C-OCDD	2.00e+07	0.84 y	44:00	0.66	238	4730	2.5	1.08	61.1
ES	13C-2,3,7,8-TCDF	5.19e+07	0.79 y	26:20	0.96	167	2935	2.5	0.201	85.5
ES	13C-1,2,3,7,8-PeCDF	4.23e+07	1.57 y	31:20	0.85	153	6675	2.5	0.514	78.2
ES	13C-2,3,4,7,8-PeCDF	4.38e+07	1.60 y	32:28	0.88	152	6675	2.5	0.496	78.2
ES	13C-1,2,3,4,7,8-HxCDF	2.70e+07	0.53 y	35:48	1.47	143	15558	2.5	1.58	73.5
ES	13C-1,2,3,6,7,8-HxCDF	3.20e+07	0.53 y	35:56	1.78	141	15558	2.5	1.32	72.5
ES	13C-2,3,4,6,7,8-HxCDF	3.03e+07	0.54 y	36:35	1.61	148	15558	2.5	1.45	75.8
ES	13C-1,2,3,7,8,9-HxCDF	2.48e+07	0.54 y	37:34	1.40	139	15558	2.5	1.67	71.1
ES	13C-1,2,3,4,6,7,8-HpCDF	2.05e+07	0.45 y	39:13	1.16	138	8640	2.5	1.12	70.9
ES	13C-1,2,3,4,7,8,9-HpCDF	1.62e+07	0.45 y	40:58	0.92	138	8640	2.5	1.41	70.8
ES	13C-OCDF	3.26e+07	0.90 y	44:14	1.04	247	6672	2.5	0.966	63.3
CS	37Cl-2,3,7,8-TCDD	1.35e+07	*	27:17	0.99	60.7			0.245	77.9
CS	13C-1,2,3,4,7-PeCDD	2.58e+07	1.69 y	32:20	0.77	149	7895	2.5	0.877	76.3
CS	13C-1,2,3,4,6-PeCDF	4.32e+07	1.57 y	30:49	0.79	167	6675	2.5	0.552	85.9
CS	13C-1,2,3,4,6,9-HxCDF	2.91e+07	0.53 y	36:15	1.41	162	15558	2.5	1.65	82.9
CS	13C-1,2,3,4,6,8,9-HpCDF	1.83e+07	0.46 y	39:42	0.91	158	8640	2.5	1.43	81.0
NA	n/a	*	* n	NotF>	Div0	*	1993	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	4.40e+07	0.83 y	26:36	-	12.2	1808	2.5	-	-
JS	13C-1,2,3,4-TCDF	6.34e+07	0.78 y	24:56	-	11.1	2935	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	1.24e+07	1.28 y	37:05	-	5.57	1921	2.5	-	-

Analyst: *[Signature]*  
 Date: *[Signature]*

*[Signature]*  
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SS	37Cl-2,3,7,8-TCDD	1.35e+07		27:17	1.00	82.3		0.316	106	) na
SS	13C-1,2,3,4,7-PeCDD	2.58e+07	1.69 y	32:20	0.93	214	7895 2.5	1.47	110	
SS	13C-1,2,3,4,6-PeCDF	4.32e+07	1.57 y	30:49	0.94	213	6675 2.5	0.785	109	
SS	13C-1,2,3,4,6,9-HxCDF	2.91e+07	0.53 y	36:15	0.80	221	15558 2.5	1.56	113	
SS	13C-1,2,3,4,6,8,9-HpCDF	1.83e+07	0.46 y	39:42	0.79	221	8640 2.5	1.15	113	
SBS	2,4,6,8-TCDF	*	* n	NotF»	1.05	*	792 2.5	0.0577	-	
Ay	1,3,6,8-TCDD	1.69e+04	0.62 n	23:24	1.08	0.0948	873 2.5	0.0901	-	
Ay	1,2,3,9-TCDD	*	* n	NotF»	1.08	*	873 2.5	0.0901	-	
Ay	1,2,8,9-TCDD	*	* n	NotF»	1.08	*	873 2.5	0.0901	-	
Ay	1,2,4,7,9-PeCDD	*	* n	NotF»	1.00	*	824 2.5	0.142	-	
Ay	1,2,3,8,9-PeCDD	*	* n	NotF»	1.00	*	824 2.5	0.142	-	
Ay	1,2,4,6,7,9-HxCDD	9.90e+04	1.31 y	35:05	1.00	0.897	1368 2.5	0.242	-	
Ay	1,2,3,4,6,7,9-HpCDD	1.09e+06	1.10 y	39:33	0.97	12.4	661 2.5	0.130	-	
Ay	1,3,6,8-TCDF	*	* n	NotF»	1.05	*	792 2.5	0.0577	-	
Ay	2,3,4,8-TCDF	*	* n	NotF»	1.05	*	792 2.5	0.0577	-	
Ay	1,2,8,9-TCDF	*	* n	NotF»	1.05	*	792 2.5	0.0577	-	
Ay	1,3,4,6,8-PeCDF	3.31e+04	0.93 n	28:29	1.05	0.119	2954 2.5	0.215	-	
Ay	1,2,3,8,9-PeCDF	*	* n	NotF»	1.00	*	1237 2.5	0.131	-	
Ay	1,2,3,4,6,8-HxCDF	1.71e+04	0.82 n	34:26	1.15	0.102	642 2.5	0.0507	-	
Tot	Total Tetra-Dioxins	2.87e+04	0.72 y	25:06	1.08	0.161	873 2.5	0.0901	-	
Tot	Total Penta-Dioxins	*	* n	NotF»	1.00	*	824 2.5	0.142	-	
Tot	Total Hexa-Dioxins	2.21e+05	1.31 y	35:05	1.00	2.01	1368 2.5	0.242	-	
Tot	Total Hepta-Dioxins	1.49e+06	1.10 y	39:33	0.97	16.9	661 2.5	0.130	-	
Tot	Total Tetra-Furans	*	* n	NotF»	1.05	*	792 2.5	0.0577	-	
Tot	Total Penta-Furans	*	* n	NotF»	1.00	*	1237 2.5	0.131	-	
Tot	Total Hexa-Furans	1.04e+05	1.40 y	35:16	1.15	0.613	642 2.5	0.0507	-	
Tot	Total Hepta-Furans	3.68e+05	0.94 y	39:14	1.35	2.79	1074 2.5	0.103	-	
Tot	TCDD EMPC	4.56e+04	0.62 n	23:24	1.08	0.256	873 2.5	0.0901	-	
Tot	PeCDD EMPC	*	* n	NotF»	1.00	*	824 2.5	0.142	-	
Tot	HxCDD EMPC	2.21e+05	1.31 y	35:05	1.00	2.01	1368 2.5	0.242	-	
Tot	HpCDD EMPC	1.49e+06	1.10 y	39:33	0.97	16.9	661 2.5	0.130	-	
Tot	TCDF EMPC	*	* n	NotF»	1.05	*	792 2.5	0.0577	-	
Tot	PeCDF EMPC	*	* n	NotF»	1.00	*	1237 2.5	0.131	-	
Tot	HxCDF EMPC	1.77e+05	0.82 n	34:26	1.15	1.05	642 2.5	0.0507	-	
Tot	HpCDF EMPC	3.68e+05	0.94 y	39:14	1.35	2.79	1074 2.5	0.103	-	
AS	13C-1,3,6,8-TCDD	3.56e+07	0.82 y	23:23	1.09	145	1808 2.5	0.142	74.5	
AS	13C-1,3,6,8-TCDF	6.57e+07	0.78 y	21:13	1.09	185	2935 2.5	0.177	95.1	
DPE	HxCdPE	*		NotF»	-	*	-	-	-	
DPE	HpCDPE	*		NotF»	-	*	-	-	-	
DPE	OCDPE	*		NotF»	-	*	-	-	-	
DPE	NCDPE	*		NotF»	-	*	-	-	-	
DPE	DCDPE	*		NotF»	-	*	-	-	-	
LMC	Fn1 check mass	*		NotF»	-	*	-	-	-	
LMC	Fn2 check mass	*		NotF»	-	*	-	-	-	
LMC	Fn3 check mass	*		NotF»	-	*	-	-	-	
LMC	Fn4 check mass	*		NotF»	-	*	-	-	-	
LMC	Fn5 check mass	*		NotF»	-	*	-	-	-	

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Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDD EMPC Function: 1 Run #: 12 Checkcode: 1408  
 File Name: 090325P1 Sample #: 5 Sample text: P1193\_6679\_001 PO-BA-24-SS-A-090313 10.»

Acquired: 25-MAR-09 17:40:33 Processed: 26-MAR-09 08:40:40

Total Conc.: 0.25616 Unnamed Conc.: 0.161 Homolog count: 2

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
23:24	7.347e+03	y	1.181e+04	n	0.62	n	1.915e+04	1.689e+04	3.20e+00	y	0.0948 1,3,6,8-TCDD
25:06	1.205e+04	y	1.667e+04	n	0.72	y	2.873e+04	2.873e+04	4.49e+00	y	0.161

Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDD EMPC Function: 2 Run #: 12 Checkcode: 1408  
 File Name: 090325P1 Sample #: 5 Sample text: P1193\_6679\_001 PO-BA-24-SS-A-090313 10.»

Acquired: 25-MAR-09 17:40:33 Processed: 26-MAR-09 08:40:40

Total Conc.: \* Unnamed Conc.: \* Homolog count: 0

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
NotF»	* n		* n		* n	*	*	*	n	*

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDD EMPC Function: 3 Run #: 12 Checkcode: 1408  
 File Name: 090325P1 Sample #: 5 Sample text: P1193\_6679\_001 PO-BA-24-SS-A-090313 10.»

Acquired: 25-MAR-09 17:40:33 Processed: 26-MAR-09 08:40:40

Total Conc.: 2.0053 Unnamed Conc.: 0.918 Homolog count: 4

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
35:06	5.617e+04	n	4.286e+04	n	1.31	y	9.903e+04	9.903e+04	1.15e+01	y	0.897 1,2,4,6,7,9-HxCDD
35:46	1.409e+04	n	1.152e+04	n	1.22	y	2.561e+04	2.561e+04	2.34e+00	n	0.232
36:02	4.140e+04	y	3.440e+04	y	1.20	y	7.580e+04	7.580e+04	6.53e+00	y	0.686
36:54	1.194e+04	y	8.438e+03	n	1.41	y	2.038e+04	2.038e+04	1.55e+00	n	0.190 1,2,3,6,7,8-HxCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HpCDD EMPC Function: 4 Run #: 12 Checkcode: 1408  
 File Name: 090325P1 Sample #: 5 Sample text: P1193\_6679\_001 PO-BA-24-SS-A-090313 10.»

Acquired: 25-MAR-09 17:40:33 Processed: 26-MAR-09 08:40:40

Total Conc.: 16.926 Unnamed Conc.: \* Homolog count: 2

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
39:37	5.687e+05	n	5.166e+05	n	1.10	y	1.085e+06	1.085e+06	2.30e+02	y	12.4 1,2,3,4,6,7,9-HpCDD
40:24	2.024e+05	n	1.991e+05	n	1.02	y	4.014e+05	4.014e+05	9.94e+01	y	4.57 1,2,3,4,6,7,8-HpCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDF EMPC Function: 1 Run #: 12 Checkcode: 1408

File Name: 090325P1 Sample #: 5 Sample text: P1193\_6679\_001 PO-BA-24-SS-A-090313 10.»

Acquired: 25-MAR-09 17:40:33 Processed: 26-MAR-09 08:40:40

Total Conc.: \* Unnamed Conc.: \* Homolog count: 0

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
NotF>	* n		* n		* n	*	*	*	n	*
Totals Results			Analytical		Perspectives				[Form: TOT]	

Totals class: PeCDF EMPC Function: 2 Run #: 12 Checkcode: 1408  
 File Name: 090325P1 Sample #: 5 Sample text: P1193\_6679\_001 PO-BA-24-SS-A-090313 10.»

Acquired: 25-MAR-09 17:40:33 Processed: 26-MAR-09 08:40:40

Total Conc.: \* Unnamed Conc.: \* Homolog count: 0

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
NotF>	* n		* n		* n	*	*	*	n	*
Totals Results			Analytical		Perspectives				[Form: TOT]	

Totals class: HxCDF EMPC Function: 3 Run #: 12 Checkcode: 1408  
 File Name: 090325P1 Sample #: 5 Sample text: P1193\_6679\_001 PO-BA-24-SS-A-090313 10.»

Acquired: 25-MAR-09 17:40:33 Processed: 26-MAR-09 08:40:40

Total Conc.: 1.0472 Unnamed Conc.: 0.874 Homolog count: 4

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
34:26	9.488e+03	n	1.164e+04	y	0.82 n	2.113e+04	1.714e+04	6.79e+00	y	0.102 1,2,3,4,6,8-HxCDF
34:37	4.652e+04	n	2.508e+04	n	1.85 n	7.161e+04	5.619e+04	1.62e+01	y	0.333
35:16	5.323e+04	n	3.813e+04	n	1.40 y	9.136e+04	9.136e+04	2.40e+01	y	0.541
36:36	7.107e+03	y	5.493e+03	y	1.29 y	1.260e+04	1.260e+04	3.15e+00	y	0.0716 2,3,4,6,7,8-HxCDF
Totals Results			Analytical		Perspectives				[Form: TOT]	

Totals class: HpCDF EMPC Function: 4 Run #: 12 Checkcode: 1408  
 File Name: 090325P1 Sample #: 5 Sample text: P1193\_6679\_001 PO-BA-24-SS-A-090313 10.»

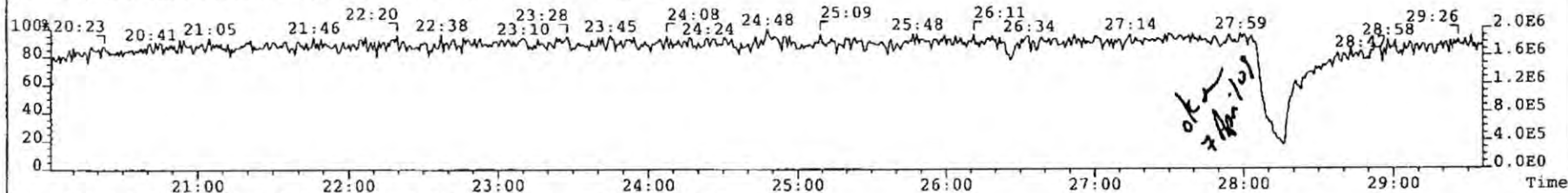
Acquired: 25-MAR-09 17:40:33 Processed: 26-MAR-09 08:40:40

Total Conc.: 2.7884 Unnamed Conc.: 1.725 Homolog count: 3

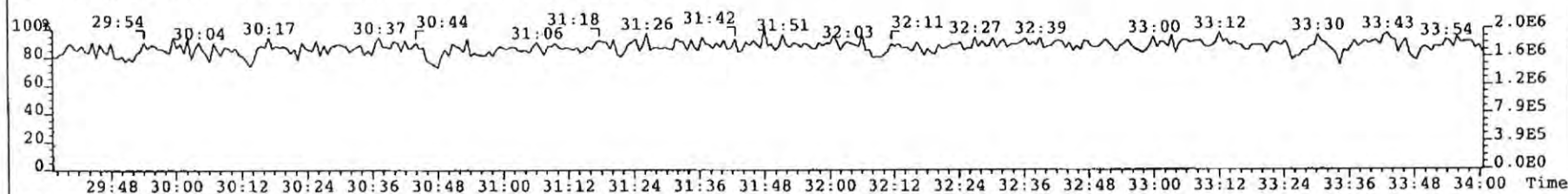
RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
39:14	6.741e+04	n	7.194e+04	n	0.94 y	1.393e+05	1.393e+05	2.20e+01	y	0.973 1,2,3,4,6,7,8-HpCDF
39:49	1.170e+05	n	1.014e+05	n	1.15 y	2.184e+05	2.184e+05	2.81e+01	y	1.73
40:52	5.058e+03	n	4.865e+03	n	1.04 y	9.923e+03	9.923e+03	1.57e+00	n	0.0902 1,2,3,4,7,8,9-HpCDF



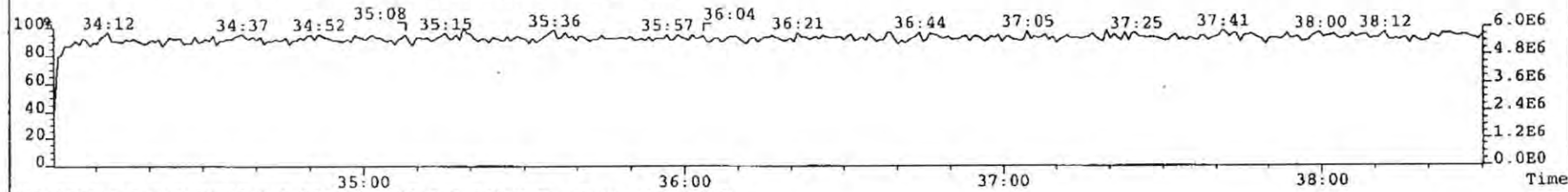
File: 090325P1 Acq: 25-MAR-2009 17:40:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: P1193\_6679\_001 PO-BA-24-SS-A-090313 10.26g Vial# 18 File Text: AP DB5  
316.9824 S:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



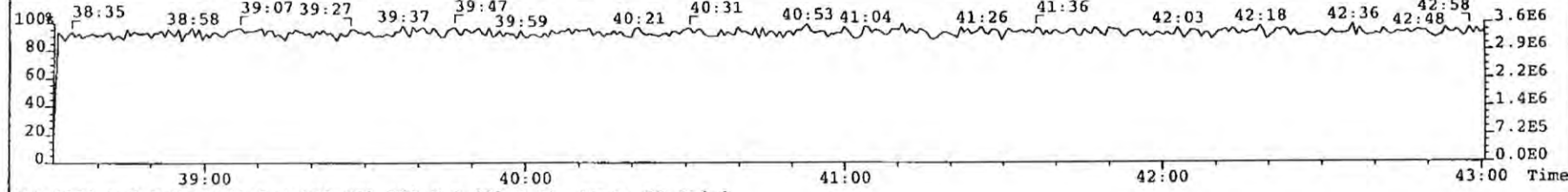
366.9792 S:5 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



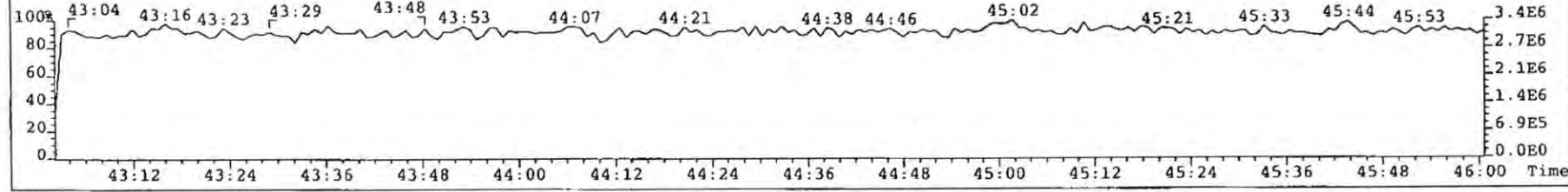
380.9760 S:5 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



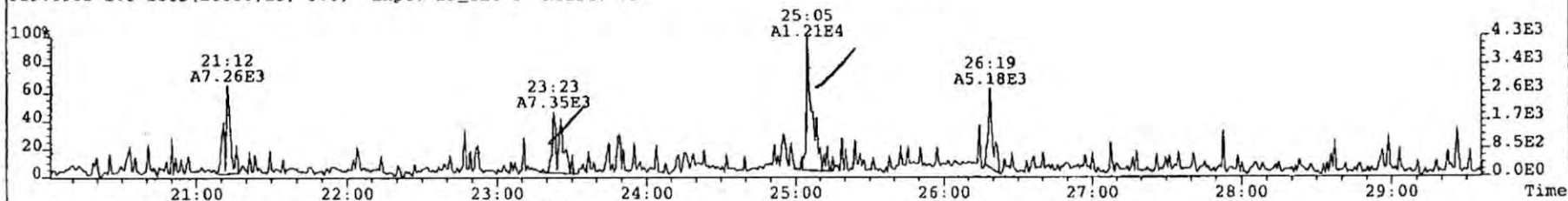
430.9728 S:5 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



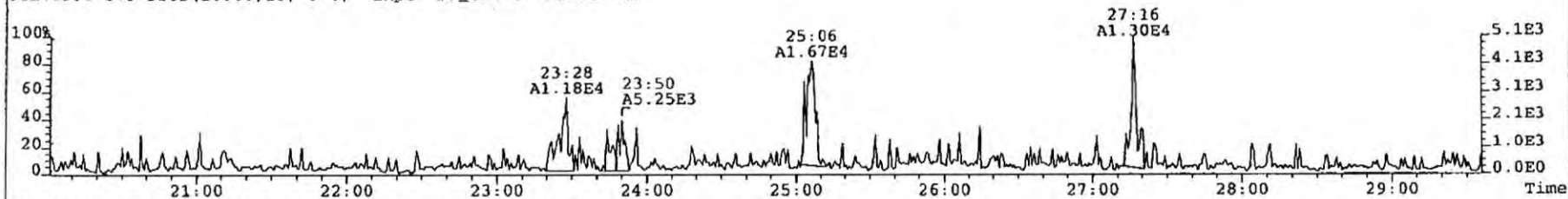
454.9728 S:5 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



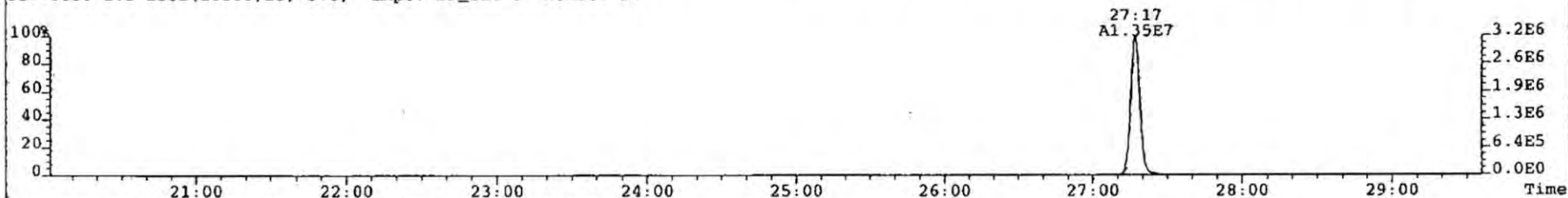
File: 090325P1 Acq: 25-MAR-2009 17:40:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: P1193\_6679\_001 PO-BA-24-SS-A-090313 10.26g Vial# 18 File Text: AP DBS  
319.8965 S:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 73



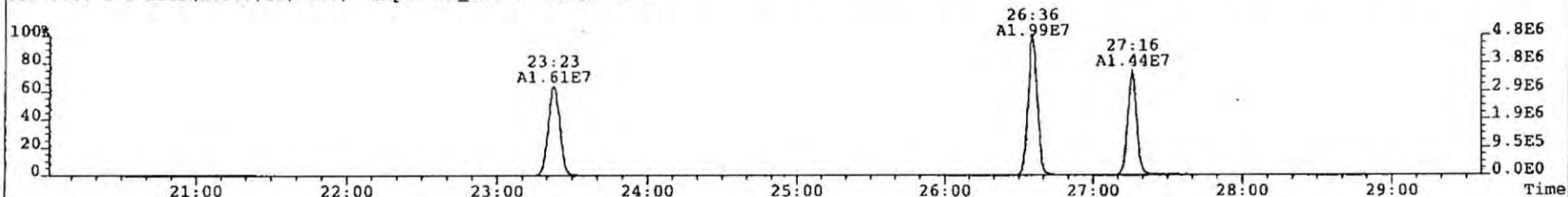
321.8936 S:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 86



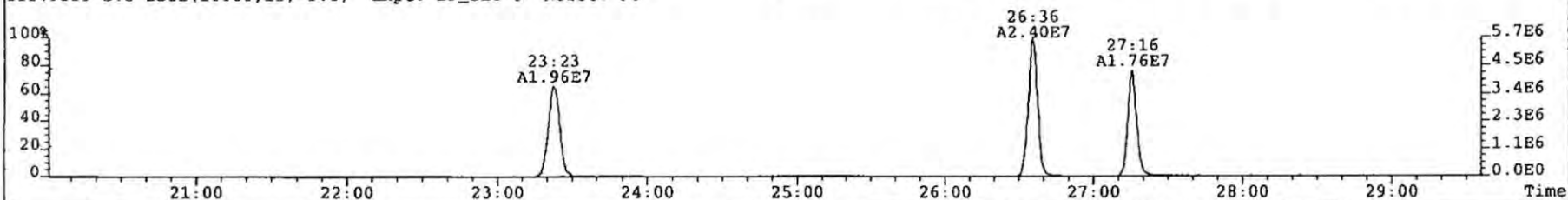
327.8850 S:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 92



331.9368 S:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 101

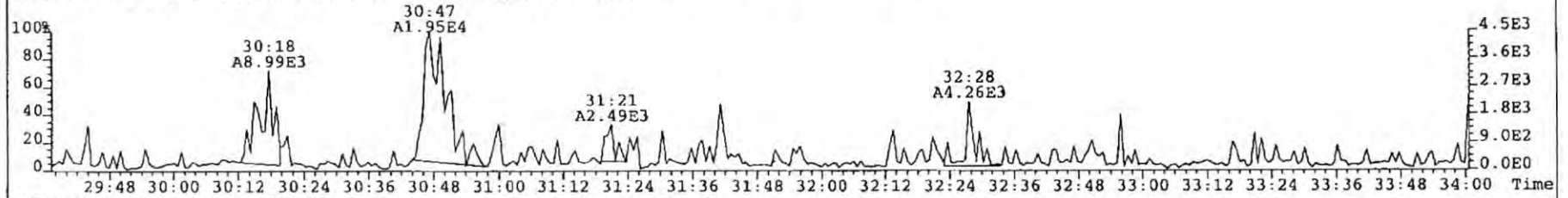


333.9339 S:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 98

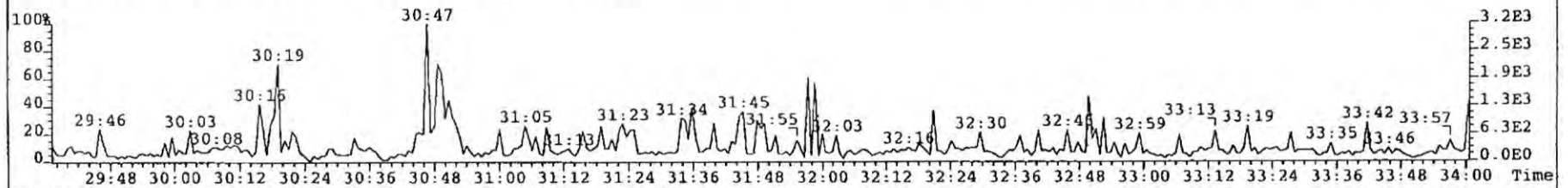




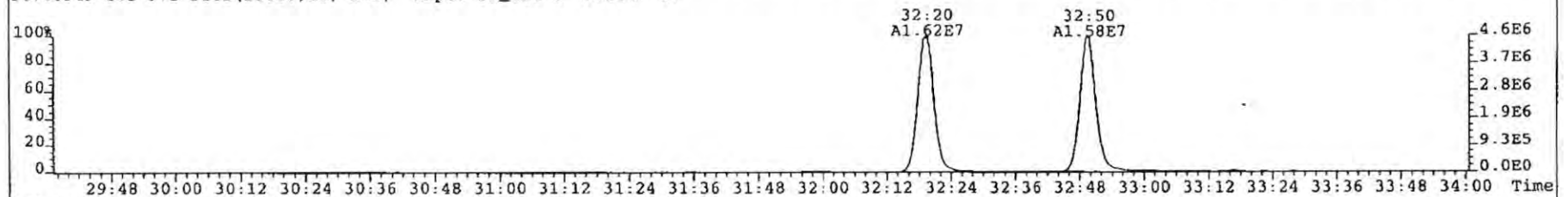
File: 090325P1 Acq: 25-MAR-2009 17:40:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: P1193\_6679\_001 PO-BA-24-SS-A-090313 10.26g Vial# 18 File Text: AP DB5  
355.8546 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 65



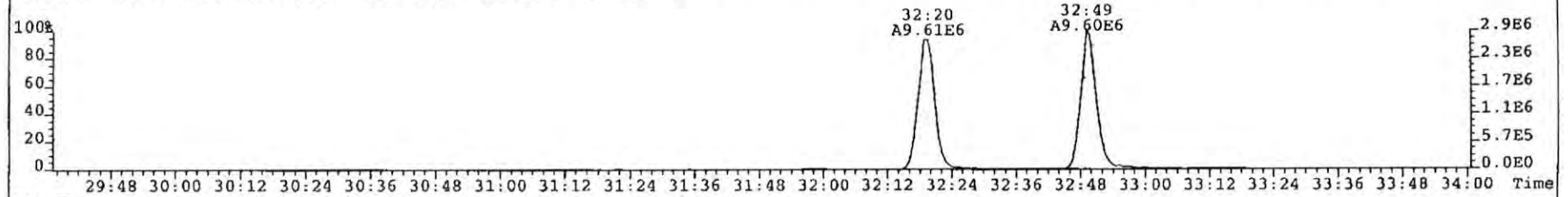
357.8517 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 68



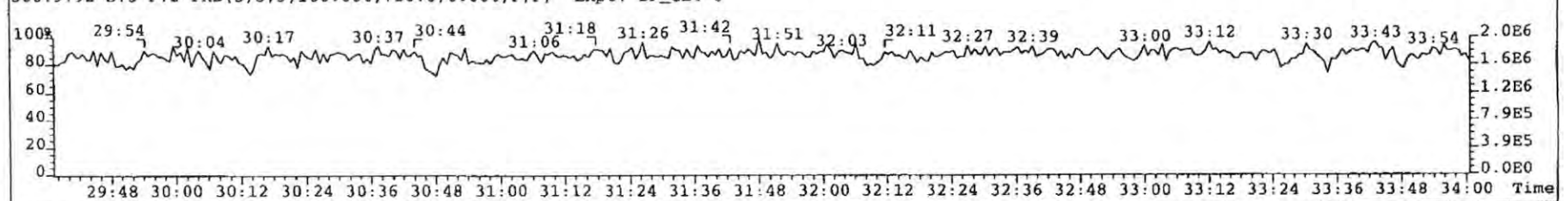
367.8949 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 87



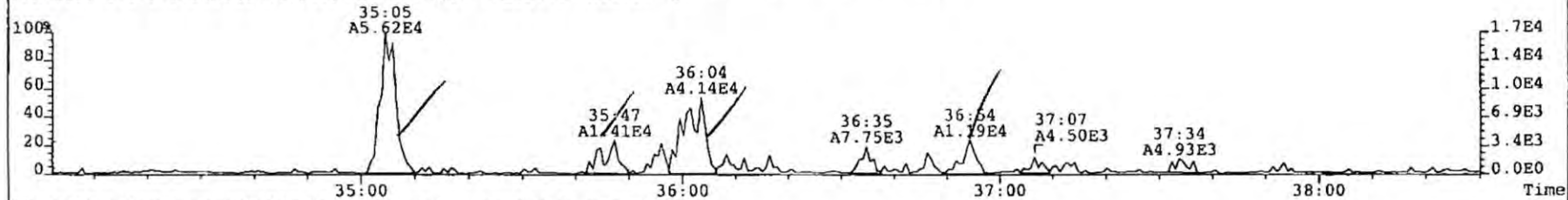
369.8919 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 70



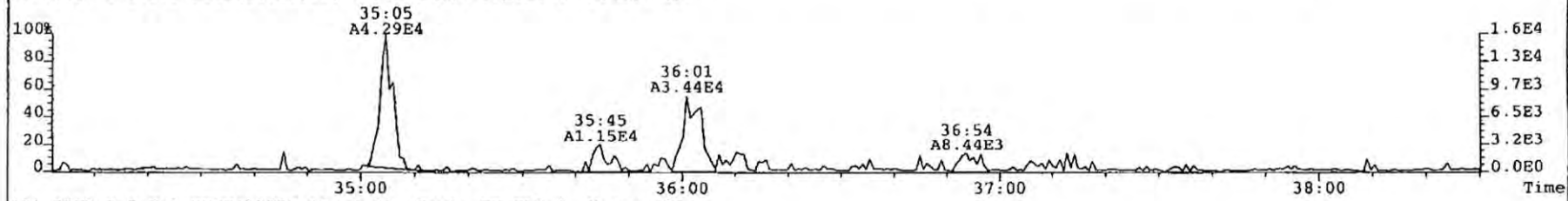
366.9792 S:5 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



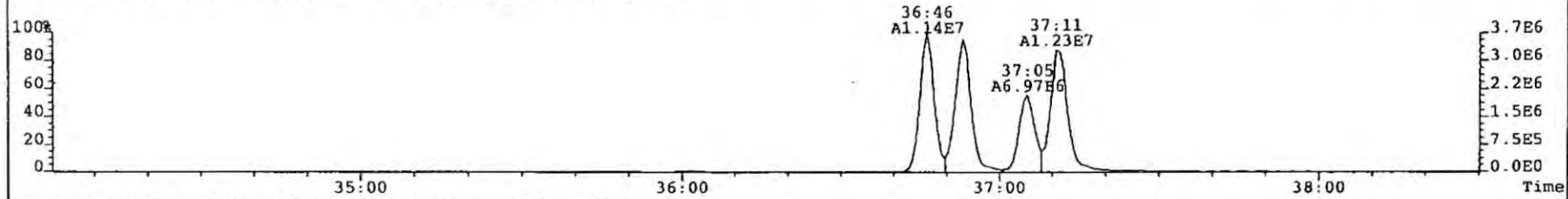
File: 090325P1 Acq: 25-MAR-2009 17:40:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: P1193\_6679\_001 PO-BA-24-SS-A-090313 10.26g Vial# 18 File Text: AP DB5  
389.8156 S:5 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 79



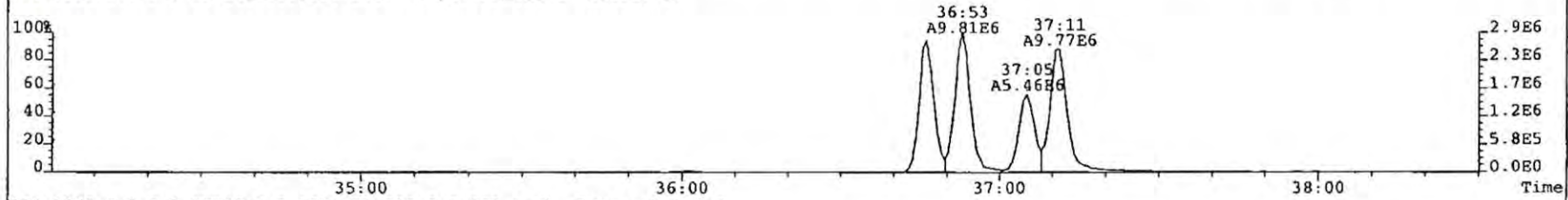
391.8127 S:5 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 89



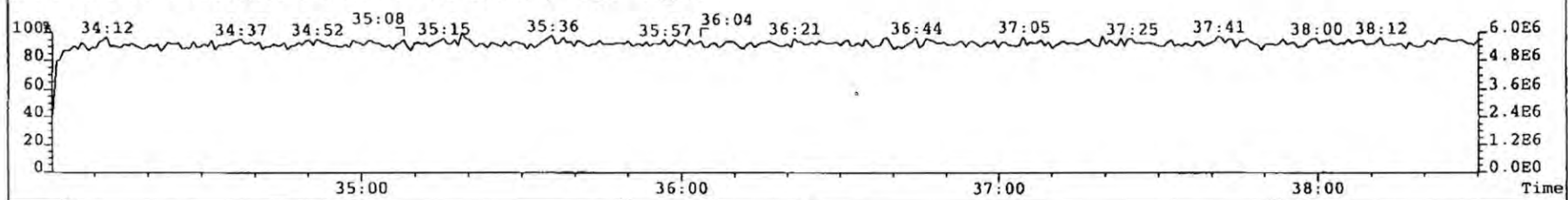
401.8559 S:5 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 90



403.8530 S:5 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 97



380.9760 S:5 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

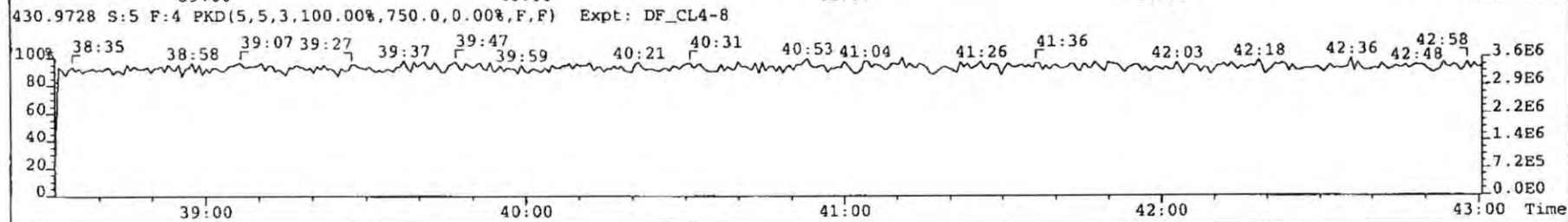
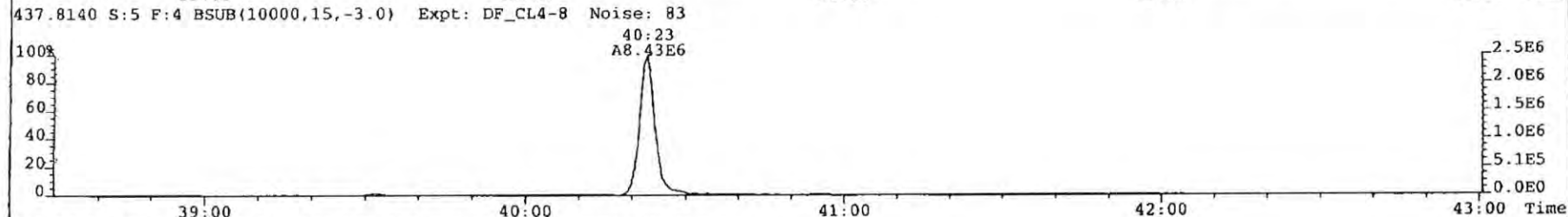
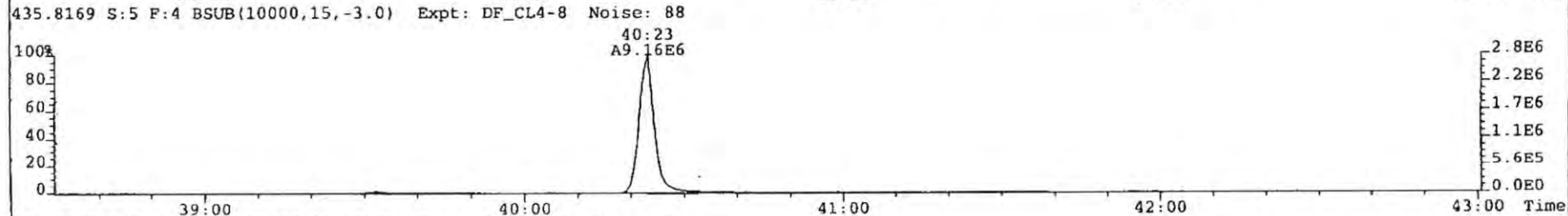
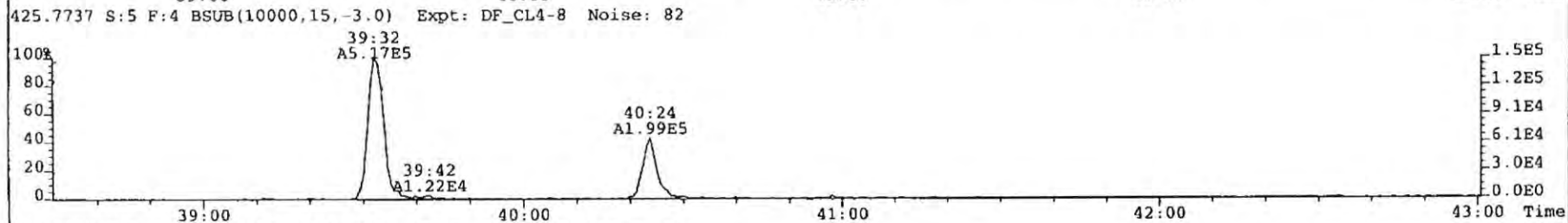
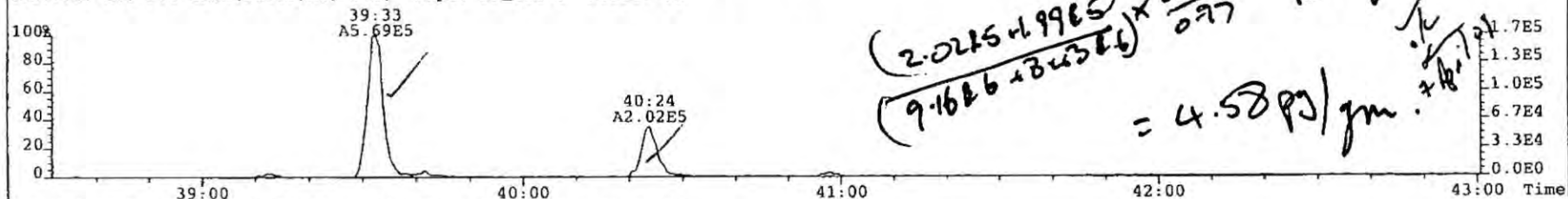




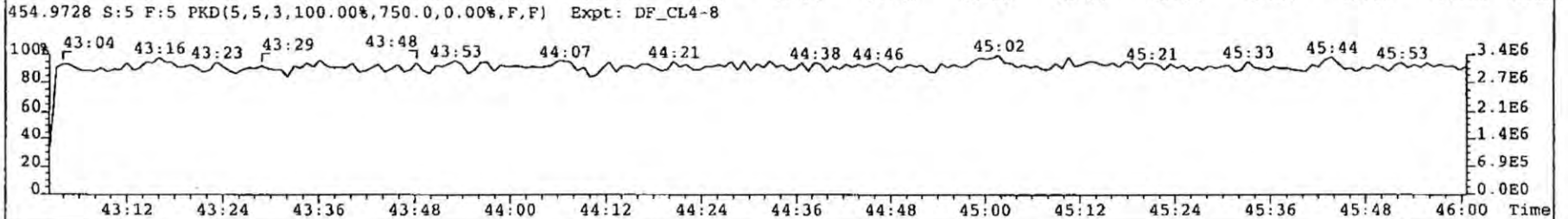
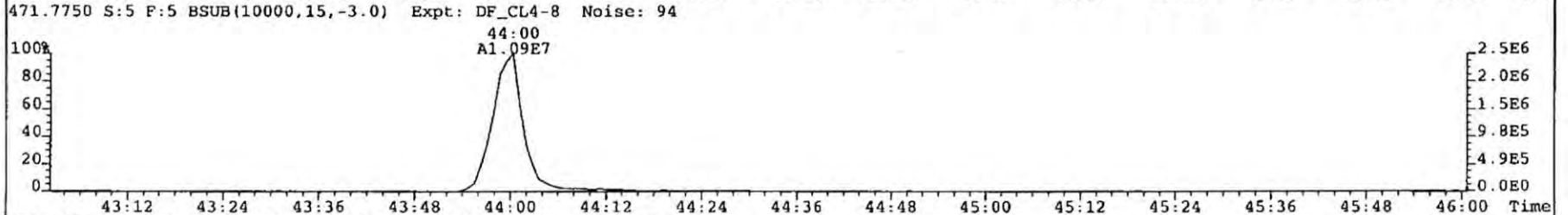
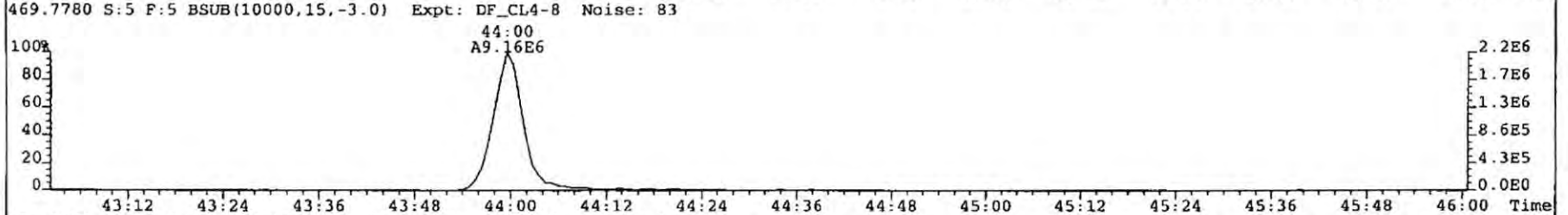
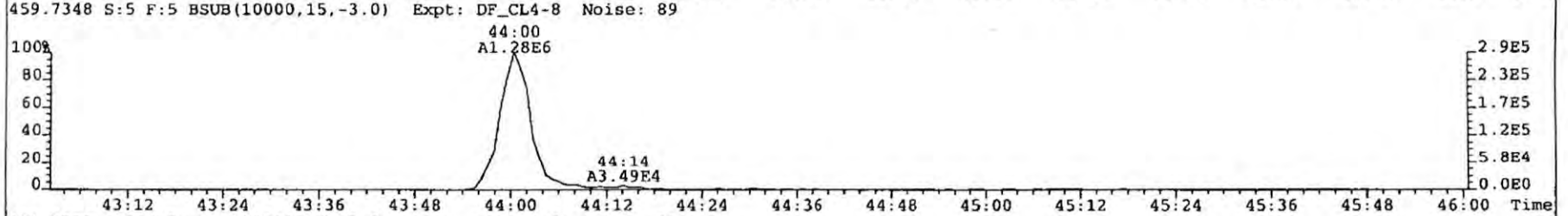
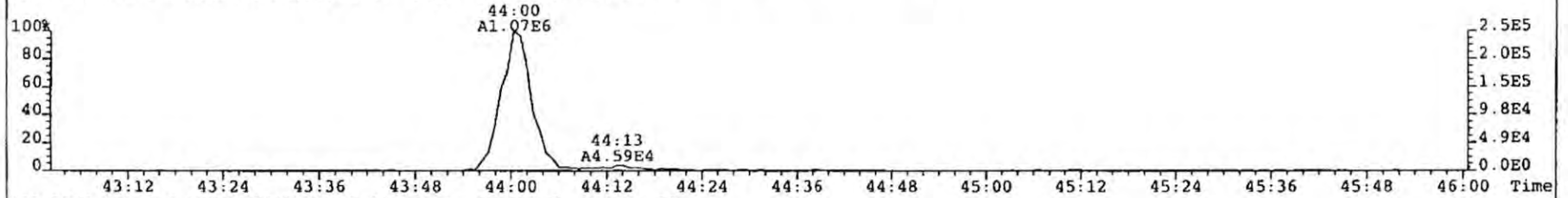
File: 090325P1 Acq: 25-MAR-2009 17:40:33 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample# 5 Text: P1193\_6679\_001 PO-BA-24-SS-A-090313 10.26g Vial# 18 File Text: AP DB5  
 423.7767 S:5 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 66

$$\frac{(2.0215 + 1.9965)}{(9.1626 + 8.4326)} \times \frac{20000 \mu\text{g}}{0.97} \times \frac{1}{10.26 \text{ gm}}$$

$$= 4.58 \mu\text{g/gm}$$

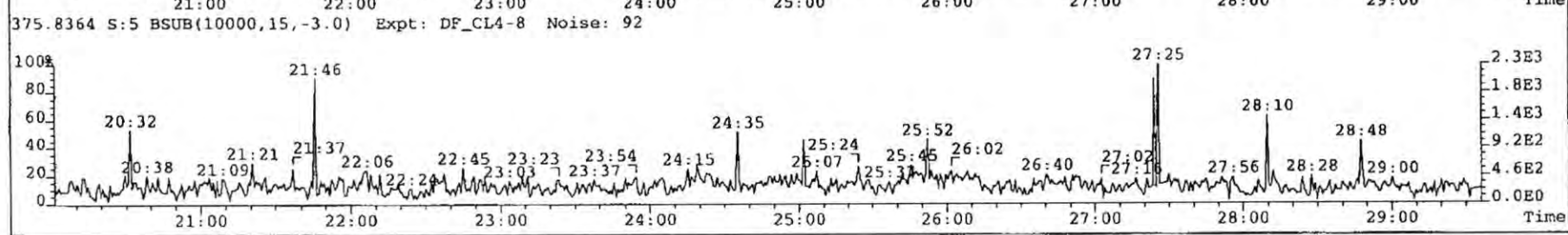
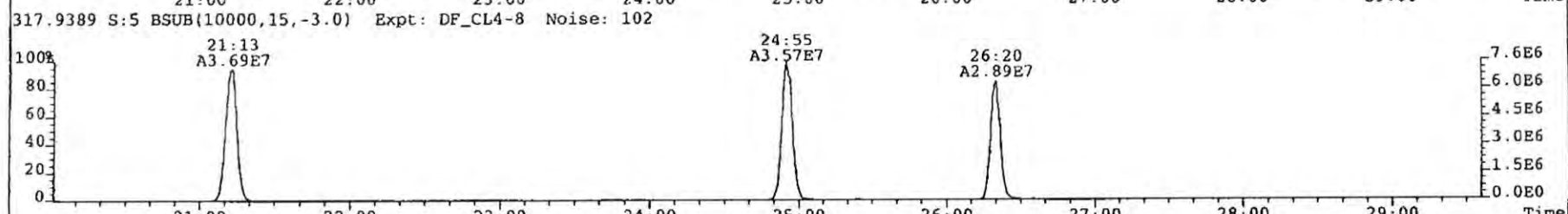
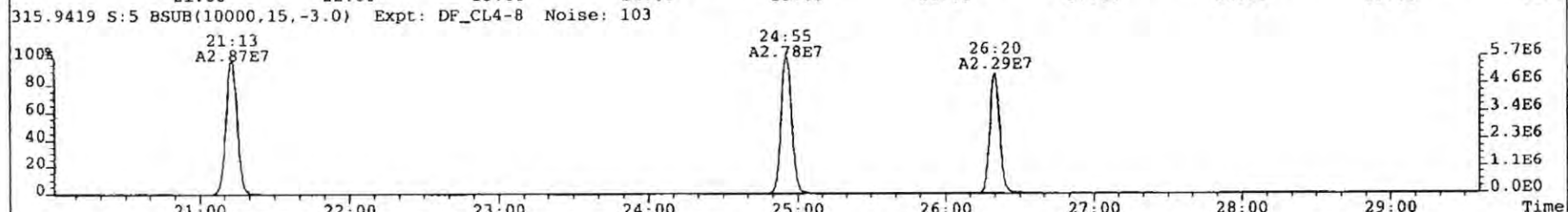
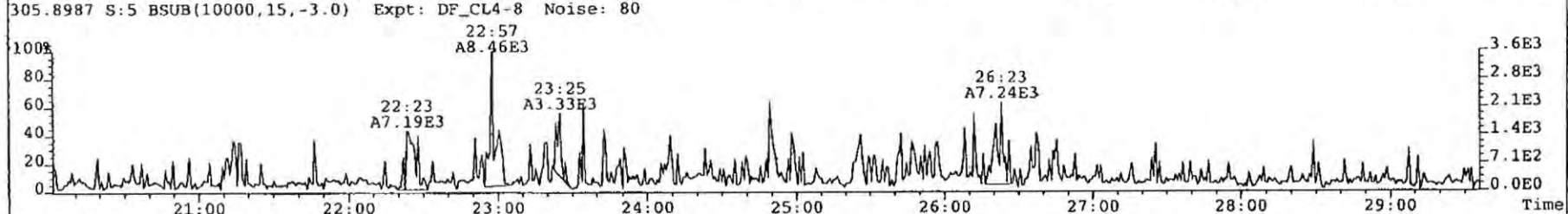
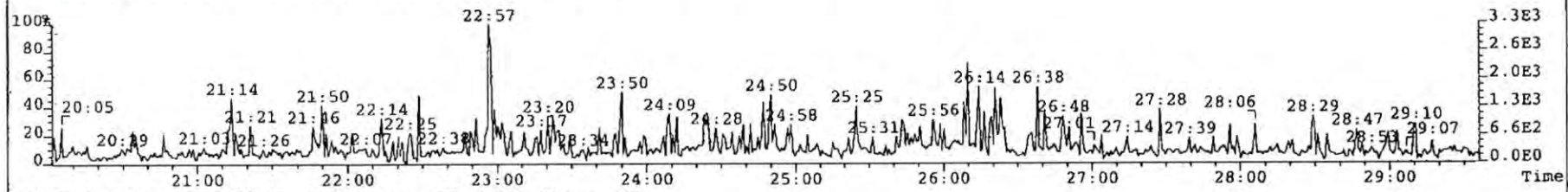


File: 090325P1 Acq: 25-MAR-2009 17:40:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: P1193\_6679\_001 PO-BA-24-SS-A-090313 10.26g Vial# 18 File Text: AP DB5  
457.7377 S:5 F:5 BSub(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 76

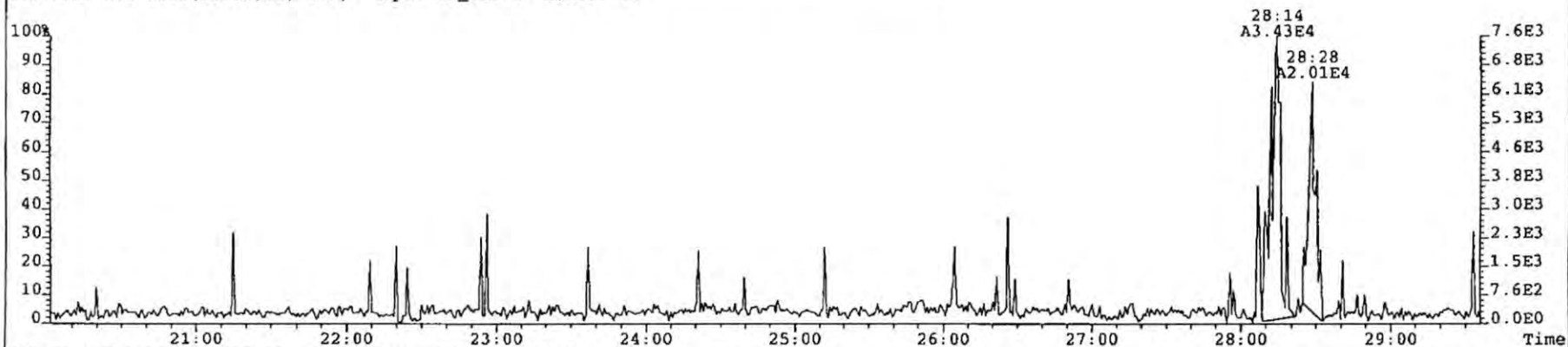




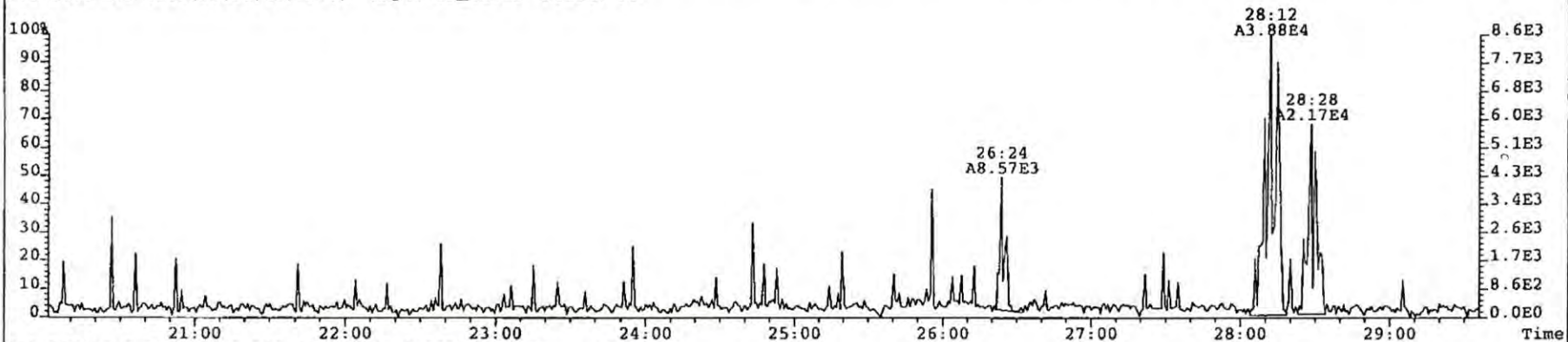
File: 090325PI Acq: 25-MAR-2009 17:40:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: P1193\_6679\_001 PO-BA-24-SS-A-090313 10.26g Vial# 18 File Text: AP DB5  
303.9016 S:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 85



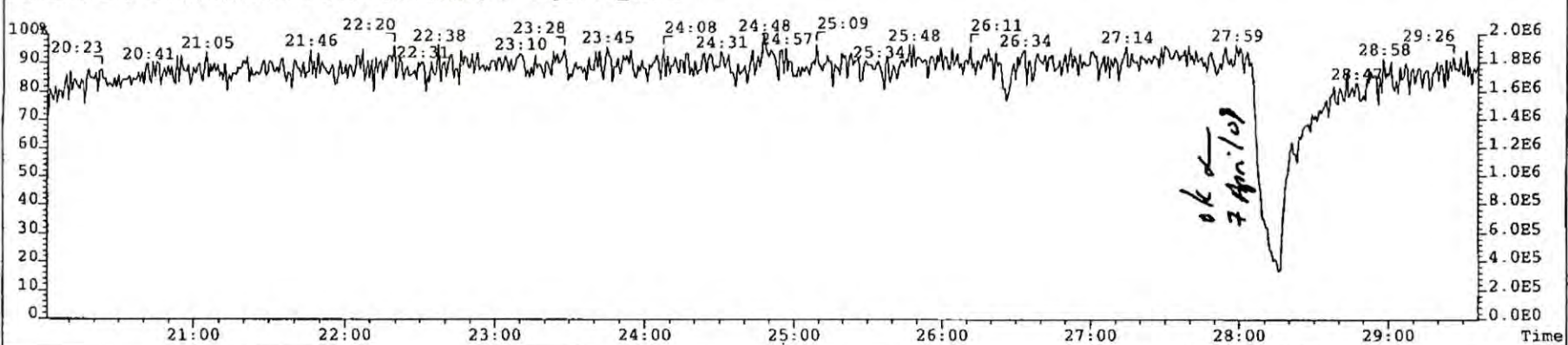
File: 090325P1 Acq: 25-MAR-2009 17:40:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: P1193\_6679\_001 PO-BA-24-SS-A-090313 10.26g Vial# 18 File Text: AP DB5  
339.8597 S:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 94



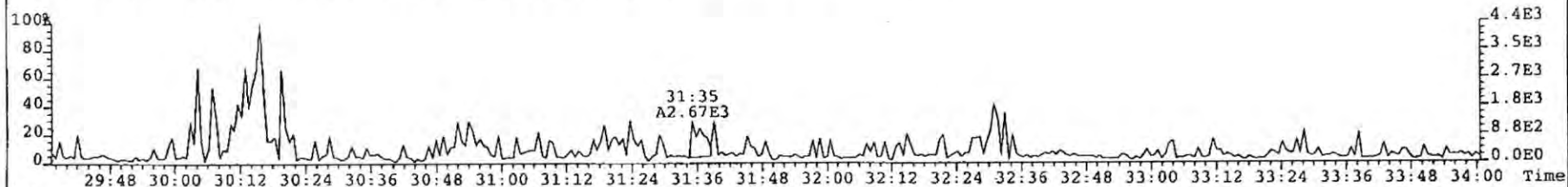
341.8568 S:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 95



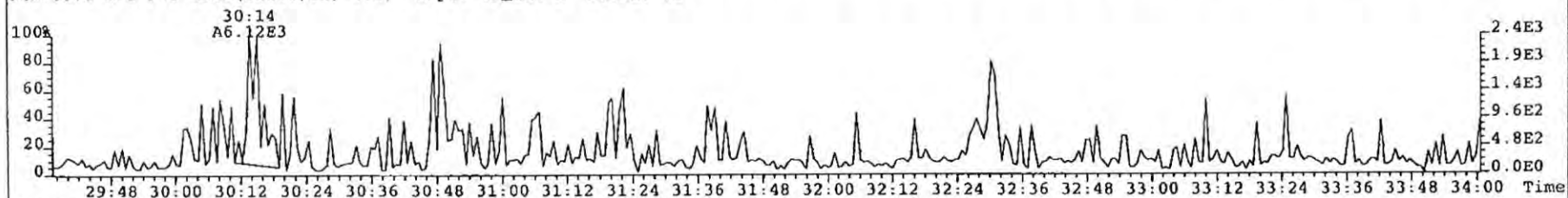
316.9824 S:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



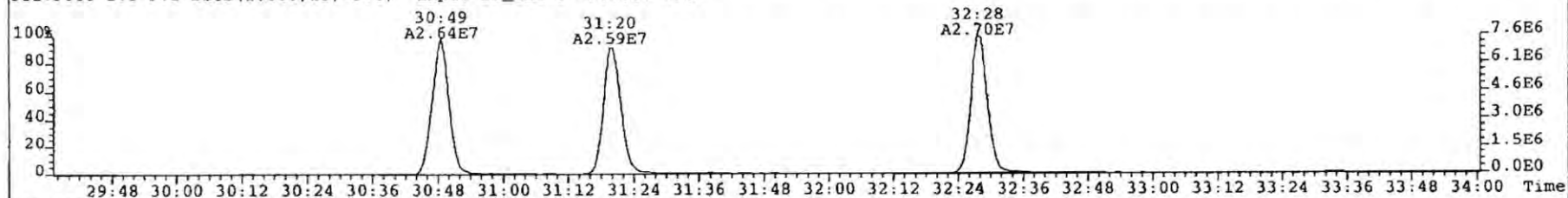
File: 090325P1 Acq: 25-MAR-2009 17:40:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: P1193\_6679\_001 PO-BA-24-SS-A-090313 10.26g Vial# 18 File Text: AP DB5  
339.8597 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 62



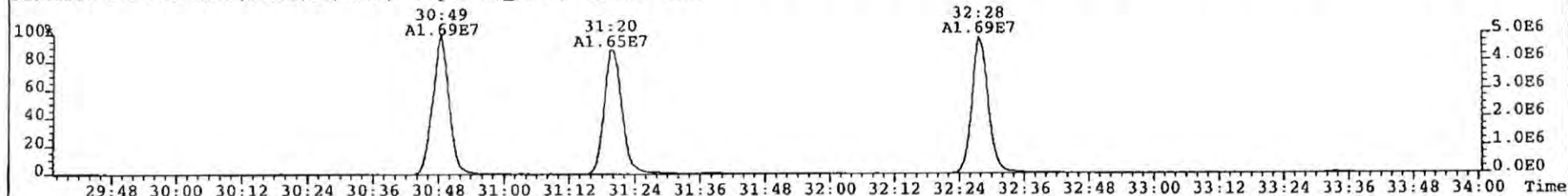
341.8568 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 65



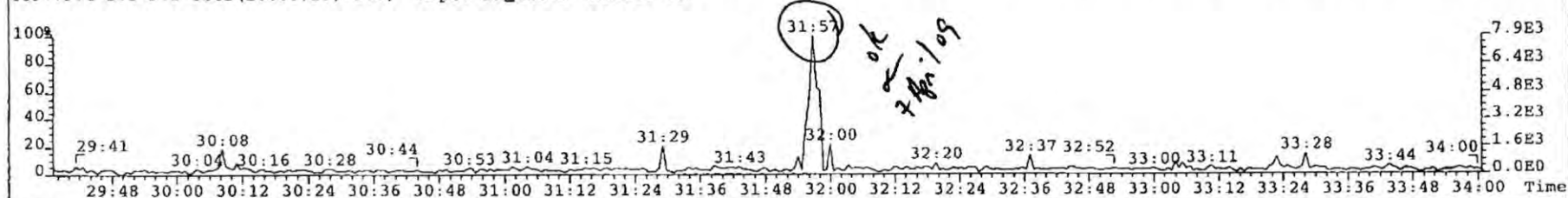
351.9000 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1967



353.8970 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1389

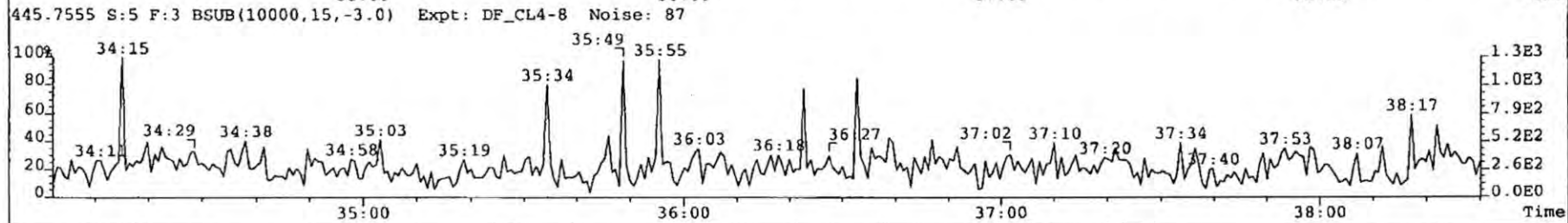
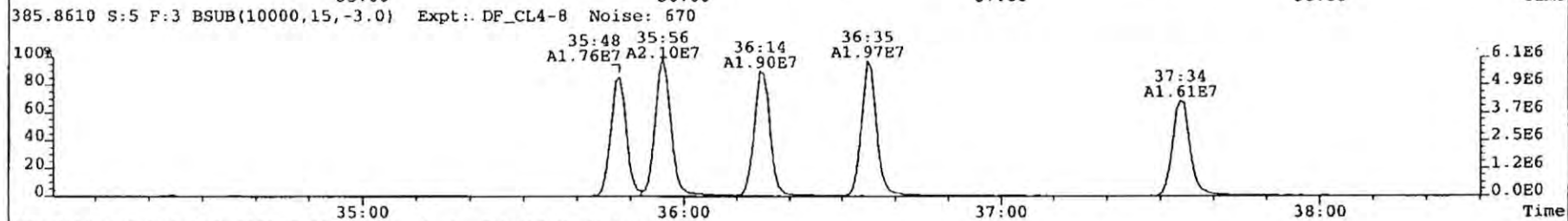
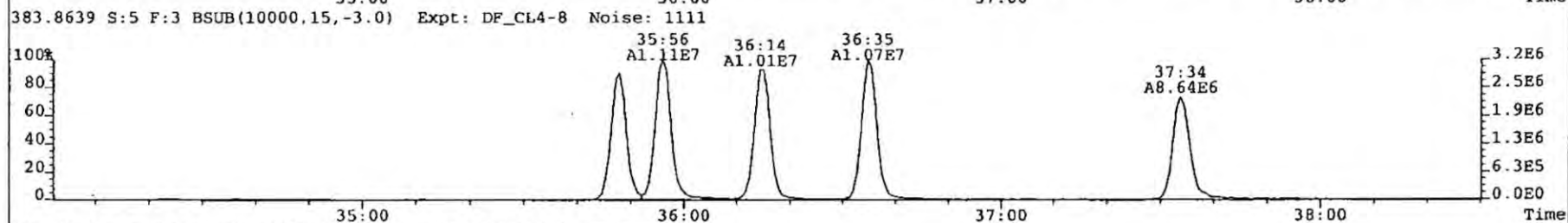
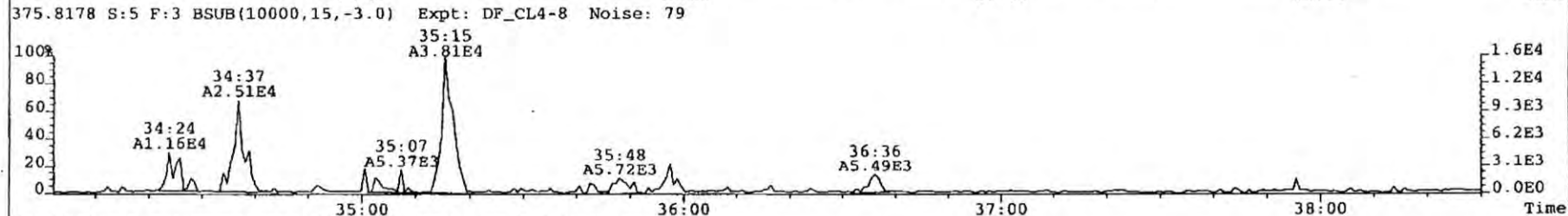
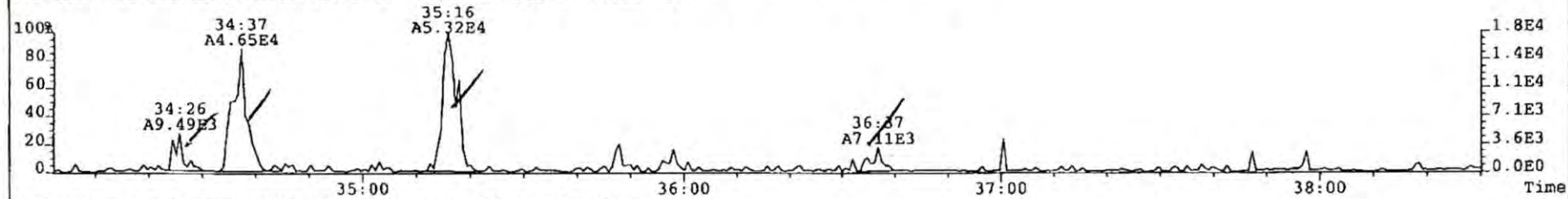


409.7974 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 78

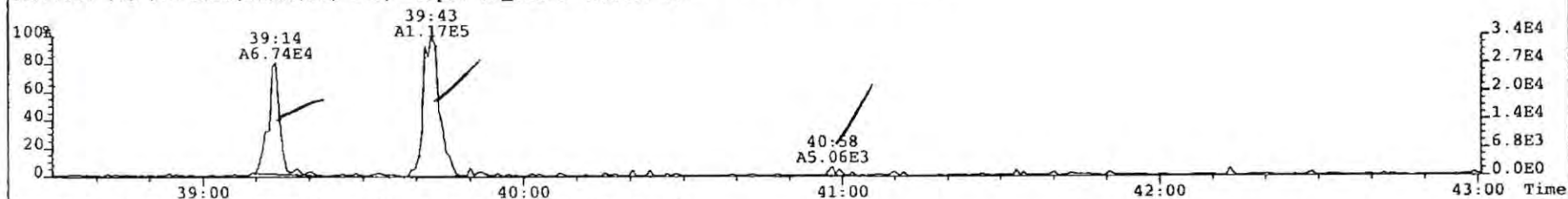




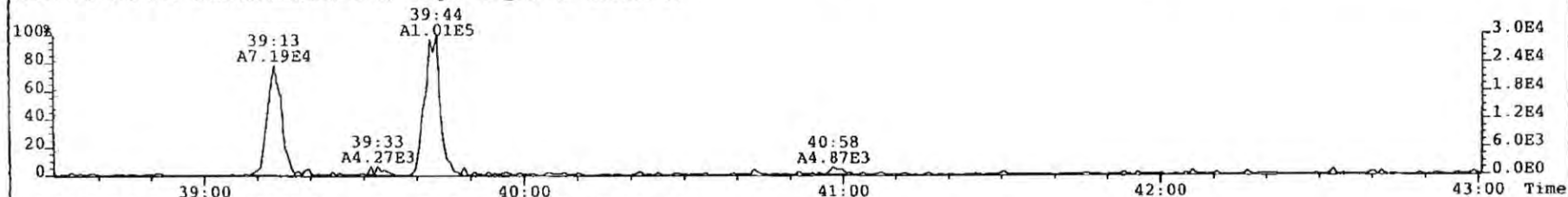
File: 090325PI Acq: 25-MAR-2009 17:40:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: P1193\_6679\_001 PO-BA-24-SS-A-090313 10.26g Vial# 18 File Text: AP DB5  
373.8207 S:5 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 85



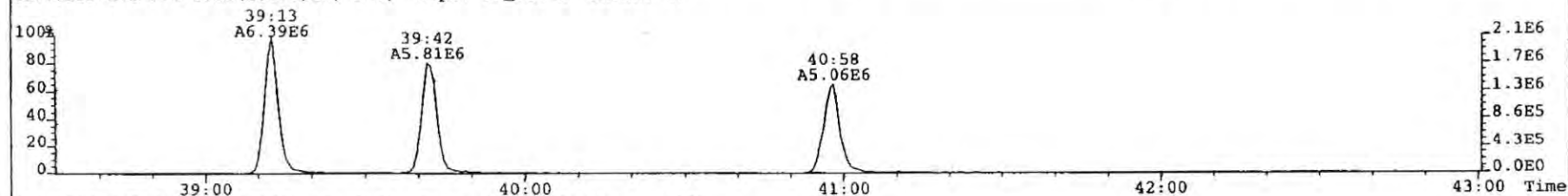
File: 090325P1 Acq: 25-MAR-2009 17:40:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: P1193\_6679\_001 PO-BA-24-SS-A-090313 10.26g Vial# 18 File Text: AP DB5  
407.7818 S:5 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 74



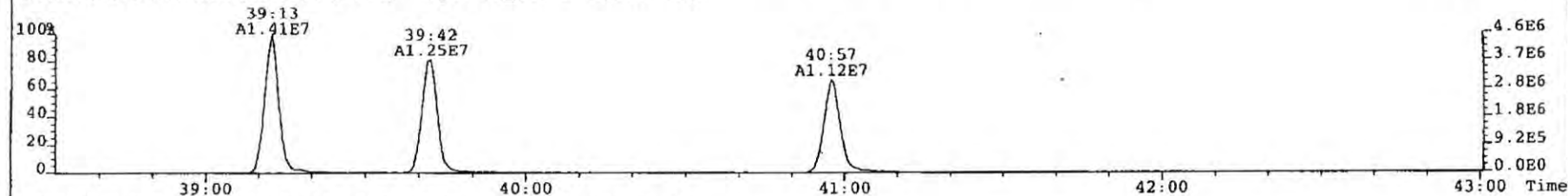
409.7788 S:5 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 69



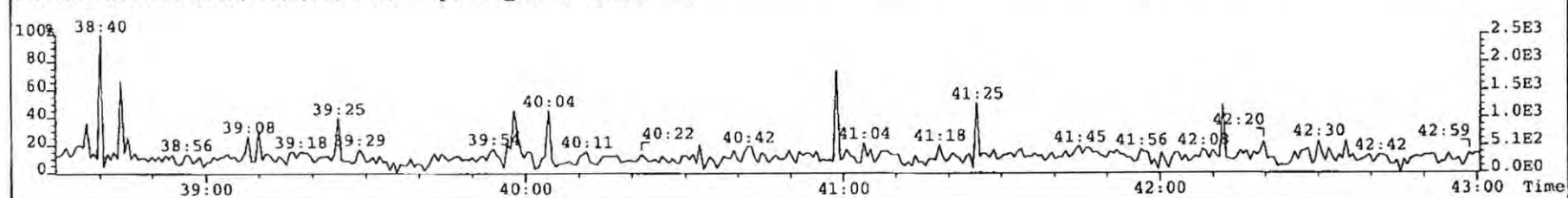
417.8253 S:5 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 97



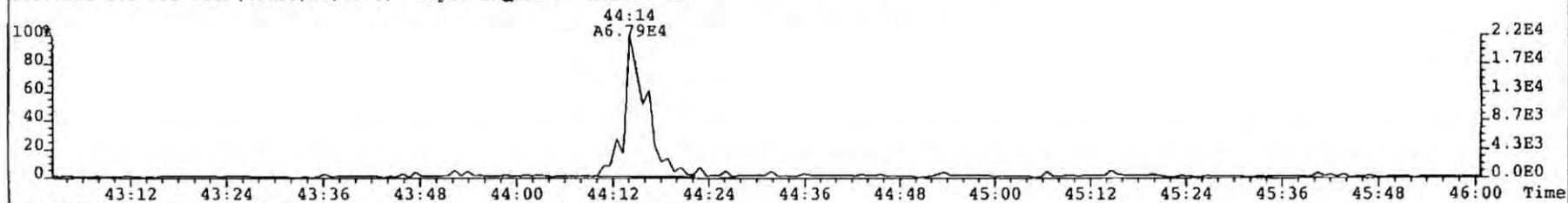
419.8220 S:5 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1102



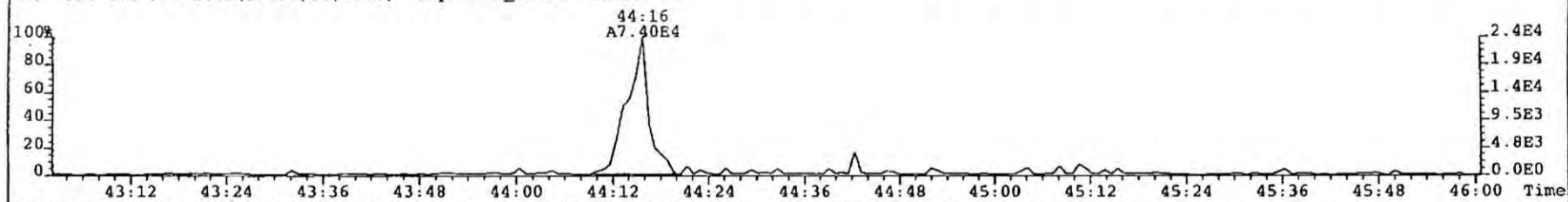
479.7165 S:5 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 93



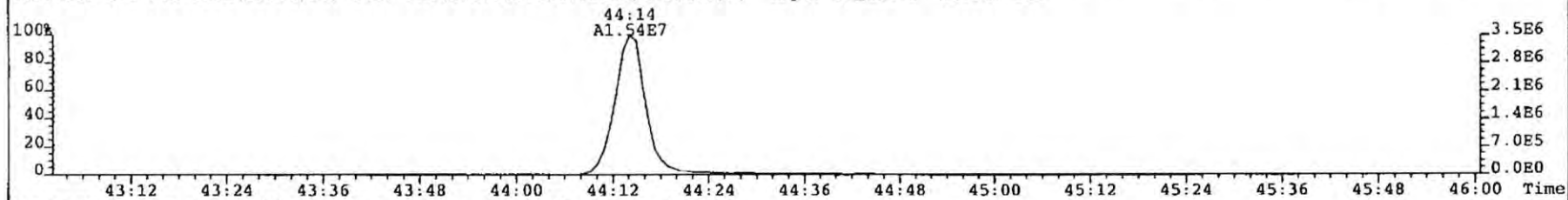
File: 090325P1 Acq: 25-MAR-2009 17:40:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: P1193\_6679\_001 PO-BA-24-SS-A-090313 10.26g Vial# 18 File Text: AP DB5  
441.7428 S:5 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 85



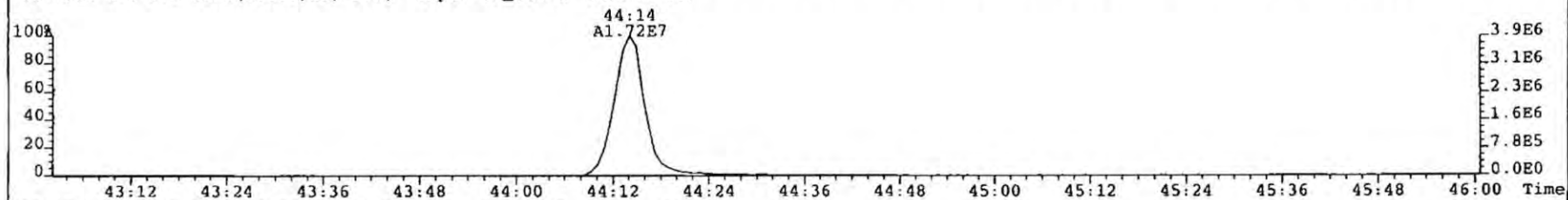
443.7398 S:5 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 87



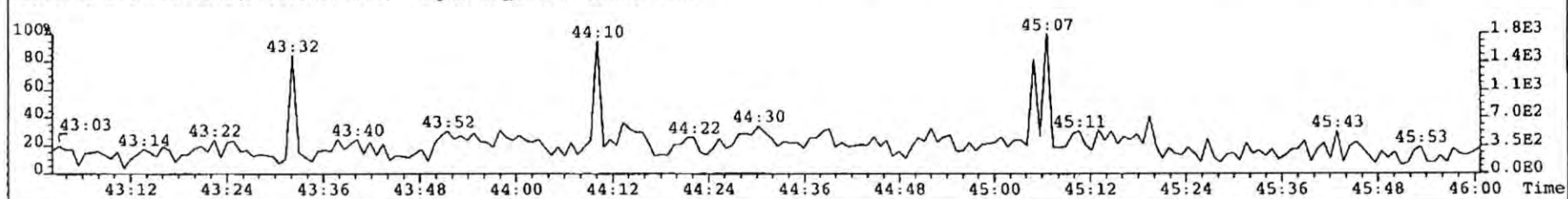
453.7830 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750,0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 102



455.7801 S:5 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 417



513.6775 S:5 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 108





1613/8290 Sample Summary

Analytical Perspectives

[Form: DF]

Client ID: PO-BA-25-SS-A-090316      Filename: 090325P1      S: 6      Vial: 19      Acq: 25-MAR-09 18:30:42  
 Lab ID: P1193\_6679\_002      GC column ID: db-5      Cal: MM1\_DF\_07012007A\_25DEC08wt/Vol: 10.21  
 Sample text: P1193\_6679\_002 PO-BA-25-SS-A-090316 10.21g      Stds: JS (split adj.): 2000      CS/SS: 800      ES: 2000

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	*	* n	NotF»	1.08	*	420	2.5	0.0343	-
Ax	1,2,3,7,8-PeCDD	*	* n	NotF»	1.00	*	1290	2.5	0.168	-
Ax	1,2,3,4,7,8-HxCDD	3.66e+04	1.88 n	36:46	1.08	0.243	857	2.5	0.114	-
Ax	1,2,3,6,7,8-HxCDD	1.15e+05	1.06 y	36:53	0.94	0.776	857	2.5	0.126	-
Ax	1,2,3,7,8,9-HxCDD	9.13e+04	1.17 y	37:11	0.99	0.566	857	2.5	0.120	-
Ax	1,2,3,4,6,7,8-HpCDD	3.13e+06	1.02 y	40:23	0.97	26.1	2074	2.5	0.362	-
Ax	OCDD	1.62e+07	0.90 y	44:00	1.06	209	5153	2.5	1.53	-
Ax2	OCDD-a	9.86e+05	2.27 y	44:00	0.06	213	2137	2.5	10.6	-
Ax	2,3,7,8-TCDF	*	* n	NotF»	1.05	*	692	2.5	0.0377	-
Ax	1,2,3,7,8-PeCDF	*	* n	NotF»	0.98	*	712	2.5	0.0607	-
Ax	2,3,4,7,8-PeCDF	9.54e+03	1.21 y	32:30	1.01	0.0325	712	2.5	0.0529	-
Ax	1,2,3,4,7,8-HxCDF	4.43e+04	1.06 y	35:48	1.22	0.196	640	2.5	0.0367	-
Ax	1,2,3,6,7,8-HxCDF	2.95e+04	0.89 y	35:57	1.15	0.125	640	2.5	0.0387	-
Ax	2,3,4,6,7,8-HxCDF	5.55e+04	1.22 y	36:36	1.13	0.232	640	2.5	0.0377	-
Ax	1,2,3,7,8,9-HxCDF	*	* n	NotF»	1.12	*	640	2.5	0.0510	-
Ax	1,2,3,4,6,7,8-HpCDF	7.95e+05	1.06 y	39:13	1.37	4.22	1109	2.5	0.0786	-
Ax	1,2,3,4,7,8,9-HpCDF	6.14e+04	0.93 y	40:58	1.32	0.416	1109	2.5	0.110	-
Ax	OCDF	1.84e+06	0.90 y	44:15	0.94	16.6	3192	2.5	0.696	-
Ax2	OCDF-a	8.98e+04	2.80 y	44:14	0.05	14.4	1192	2.5	4.62	-
ES	13C-2,3,7,8-TCDD	4.40e+07	0.81 y	27:16	0.99	154	3332	2.5	0.226	78.4
ES	13C-1,2,3,7,8-PeCDD	3.46e+07	1.60 y	32:49	0.83	143	7595	2.5	0.612	73.2
ES	13C-1,2,3,4,7,8-HxCDD	2.72e+07	1.29 y	36:46	1.08	150	11743	2.5	1.35	76.6
ES	13C-1,2,3,6,7,8-HxCDD	3.07e+07	1.27 y	36:53	1.23	149	11743	2.5	1.19	76.2
ES	13C-1,2,3,7,8,9-HxCDD	3.18e+07	1.26 y	37:11	1.21	157	11743	2.5	1.21	80.0
ES	13C-1,2,3,4,6,7,8-HpCDD	2.42e+07	1.09 y	40:23	0.98	147	6393	2.5	0.809	74.9
ES	13C-OCDD	2.86e+07	0.87 y	44:00	0.66	259	6548	2.5	1.24	66.2
ES	13C-2,3,7,8-TCDF	6.98e+07	0.80 y	26:21	0.96	175	2603	2.5	0.136	89.3
ES	13C-1,2,3,7,8-PeCDF	5.32e+07	1.57 y	31:20	0.85	150	4572	2.5	0.267	76.4
ES	13C-2,3,4,7,8-PeCDF	5.67e+07	1.59 y	32:28	0.88	154	4572	2.5	0.258	78.6
ES	13C-1,2,3,4,7,8-HxCDF	3.64e+07	0.53 y	35:47	1.47	147	18287	2.5	1.54	75.2
ES	13C-1,2,3,6,7,8-HxCDF	4.02e+07	0.53 y	35:56	1.78	135	18287	2.5	1.28	69.0
ES	13C-2,3,4,6,7,8-HxCDF	4.15e+07	0.53 y	36:35	1.61	154	18287	2.5	1.41	78.6
ES	13C-1,2,3,7,8,9-HxCDF	3.42e+07	0.52 y	37:34	1.40	146	18287	2.5	1.63	74.4
ES	13C-1,2,3,4,6,7,8-HpCDF	2.70e+07	0.46 y	39:12	1.16	139	10062	2.5	1.08	71.0
ES	13C-1,2,3,4,7,8,9-HpCDF	2.19e+07	0.45 y	40:58	0.92	142	10062	2.5	1.36	72.4
ES	13C-OCDF	4.64e+07	0.90 y	44:14	1.04	267	11634	2.5	1.40	68.1
CS	37Cl-2,3,7,8-TCDD	1.88e+07		27:17	0.99	65.8			0.235	84.0
CS	13C-1,2,3,4,7-PeCDD	2.93e+07	1.64 y	32:19	0.77	132	7595	2.5	0.663	67.3
CS	13C-1,2,3,4,6-PeCDF	5.39e+07	1.56 y	30:48	0.79	163	4572	2.5	0.287	83.1
CS	13C-1,2,3,4,6,9-HxCDF	4.08e+07	0.53 y	36:14	1.41	173	18287	2.5	1.61	88.1
CS	13C-1,2,3,4,6,8,9-HpCDF	2.49e+07	0.46 y	39:42	0.91	164	10062	2.5	1.38	83.6
NA	n/a	*	* n	NotF»	Div0	*	1222	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	5.66e+07	0.83 y	26:36	-	15.8	3332	2.5	-	-
JS	13C-1,2,3,4-TCDF	8.17e+07	0.78 y	24:57	-	14.4	2603	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	1.64e+07	1.28 y	37:05	-	7.39	411	2.5	-	-

7 April 09  
 OK

Analyst: [Signature]  
 Date: [Signature]  
 7 April 09

SS	37Cl-2,3,7,8-TCDD	1.88e+07		27:17	1.00	83.5		0.304	107
SS	13C-1,2,3,4,7-PeCDD	2.93e+07	1.64 y	32:19	0.93	179	7595 2.5	1.07	91.4
SS	13C-1,2,3,4,6-PeCDF	5.39e+07	1.56 y	30:48	0.94	212	4572 2.5	0.410	108
SS	13C-1,2,3,4,6,9-HxCDF	4.08e+07	0.53 y	36:14	0.80	248	18287 2.5	1.59	127
SS	13C-1,2,3,4,6,8,9-HpCDF	2.49e+07	0.46 y	39:42	0.79	228	10062 2.5	1.23	117
SBS	2,4,6,8-TCDF	*	* n	NotF»	1.05	*	692 2.5	0.0377	-
Ay	1,3,6,8-TCDD	2.87e+04	0.57 $\text{\textcircled{n}}$	23:26	1.08	0.118	420 2.5	0.0343	-
Ay	1,2,3,9-TCDD	*	* n	NotF»	1.08	*	420 2.5	0.0343	-
Ay	1,2,8,9-TCDD	*	* n	NotF»	1.08	*	420 2.5	0.0343	-
Ay	1,2,4,7,9-PeCDD	*	* n	NotF»	1.00	*	1290 2.5	0.168	-
Ay	1,2,3,8,9-PeCDD	*	* n	NotF»	1.00	*	1290 2.5	0.168	-
Ay	1,2,4,6,7,9-HxCDD	1.47e+05	1.53 $\text{\textcircled{n}}$	35:05	1.00	0.958	857 2.5	0.120	-
Ay	1,2,3,4,6,7,9-HpCDD	3.46e+06	1.04 y	39:32	0.97	28.9	2074 2.5	0.362	-
Ay	1,3,6,8-TCDF	*	* n	NotF»	1.05	*	692 2.5	0.0377	-
Ay	2,3,4,8-TCDF	*	* n	NotF»	1.05	*	692 2.5	0.0377	-
Ay	1,2,8,9-TCDF	*	* n	NotF»	1.05	*	692 2.5	0.0377	-
Ay	1,3,4,6,8-PeCDF	7.64e+04	1.83 $\text{\textcircled{n}}$	28:28	1.05	0.205	2003 2.5	0.109	-
Ay	1,2,3,8,9-PeCDF	*	* n	NotF»	1.00	*	712 2.5	0.0567	-
Ay	1,2,3,4,6,8-HxCDF	8.32e+04	1.03 $\text{\textcircled{n}}$	34:25	1.15	0.371	640 2.5	0.0406	-
Tot	Total Tetra-Dioxins	*	* n	NotF»	1.08	*	420 2.5	0.0343	-
Tot	Total Penta-Dioxins	*	* n	NotF»	1.00	*	1290 2.5	0.168	-
Tot	Total Hexa-Dioxins	2.44e+05	1.18 y	36:09	1.00	1.59	857 2.5	0.120	-
Tot	Total Hepta-Dioxins	6.60e+06	1.04 y	39:32	0.97	55.0	2074 2.5	0.362	-
Tot	Total Tetra-Furans	*	* n	NotF»	1.05	*	692 2.5	0.0377	-
Tot	Total Penta-Furans	*	* n	NotF»	1.00	*	712 2.5	0.0567	-
Tot	Total Hexa-Furans	7.20e+05	1.25 y	34:37	1.15	3.19	640 2.5	0.0406	-
Tot	Total Hepta-Furans	2.42e+06	1.06 y	39:13	1.35	13.9	1109 2.5	0.0922	-
Tot	TCDD EMPC	5.55e+04	0.57 $\text{\textcircled{n}}$	23:26	1.08	0.228	420 2.5	0.0343	-
Tot	PeCDD EMPC	*	* n	NotF»	1.00	*	1290 2.5	0.168	-
Tot	HxCDD EMPC	7.27e+05	1.53 $\text{\textcircled{n}}$	35:05	1.00	4.75	857 2.5	0.120	-
Tot	HpCDD EMPC	6.60e+06	1.04 y	39:32	0.97	55.0	2074 2.5	0.362	-
Tot	TCDF EMPC	*	* n	NotF»	1.05	*	692 2.5	0.0377	-
Tot	PeCDF EMPC	4.55e+04	2.16 $\text{\textcircled{n}}$	30:12	1.00	0.161	712 2.5	0.0567	-
Tot	HxCDF EMPC	8.32e+05	1.03 $\text{\textcircled{n}}$	34:25	1.15	3.69	640 2.5	0.0406	-
Tot	HpCDF EMPC	2.44e+06	1.06 y	39:13	1.35	14.1	1109 2.5	0.0922	-
AS	13C-1,3,6,8-TCDD	4.37e+07	0.81 y	23:24	1.09	139	3332 2.5	0.206	71.1
AS	13C-1,3,6,8-TCDF	7.92e+07	0.77 y	21:13	1.09	174	2603 2.5	0.119	89.0
DPE	HxCdPE	*		NotF»	-	*	-	-	-
DPE	HpCdPE	*		NotF»	-	*	-	-	-
DPE	OCDPE	*		NotF»	-	*	-	-	-
DPE	NCDPE	*		NotF»	-	*	-	-	-
DPE	DCDPE	*		NotF»	-	*	-	-	-
LMC	Fn1 check mass	*		NotF»	-	*	-	-	-
LMC	Fn2 check mass	*		NotF»	-	*	-	-	-
LMC	Fn3 check mass	*		NotF»	-	*	-	-	-
LMC	Fn4 check mass	*		NotF»	-	*	-	-	-
LMC	Fn5 check mass	*		NotF»	-	*	-	-	-

no

7 Apr 09



Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDD EMPC Function: 1 Run #: 13 Checkcode: 1692  
 File Name: 090325P1 Sample #: 6 Sample text: P1193\_6679\_002 PO-BA-25-SS-A-090316 10.»

Acquired: 25-MAR-09 18:30:42 Processed: 26-MAR-09 08:40:41

Total Conc.: 0.22805 Unnamed Conc.: 0.110 Homolog count: 2

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
23:26	1.249e+04	y	2.201e+04	n	0.57 n	3.449e+04	2.870e+04	1.21e+01	y	0.118 1,3,6,8-TCDD
25:06	1.506e+04	y	1.517e+04	n	0.99 n	3.022e+04	2.684e+04	1.61e+01	y	0.110

Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDD EMPC Function: 2 Run #: 13 Checkcode: 1692  
 File Name: 090325P1 Sample #: 6 Sample text: P1193\_6679\_002 PO-BA-25-SS-A-090316 10.»

Acquired: 25-MAR-09 18:30:42 Processed: 26-MAR-09 08:40:41

Total Conc.: \* Unnamed Conc.: \* Homolog count: 0

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
NotF»	* n		* n		* n	*	*	*	n	*

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDD EMPC Function: 3 Run #: 13 Checkcode: 1692  
 File Name: 090325P1 Sample #: 6 Sample text: P1193\_6679\_002 PO-BA-25-SS-A-090316 10.»

Acquired: 25-MAR-09 18:30:42 Processed: 26-MAR-09 08:40:41

Total Conc.: 4.7496 Unnamed Conc.: 2.206 Homolog count: 8

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
35:05	9.990e+04	n	6.548e+04	n	1.53 n	1.654e+05	1.467e+05	2.29e+01	y	0.958 1,2,4,6,7,9-HxCDD
35:45	2.858e+04	y	1.937e+04	n	1.48 n	4.795e+04	4.339e+04	7.13e+00	y	0.283
36:01	1.542e+05	y	1.071e+05	y	1.44 n	2.613e+05	2.399e+05	2.70e+01	y	1.57
36:02	2.043e+04	y	1.737e+04	y	1.18 y	3.780e+04	3.780e+04	5.93e+00	y	0.247
36:46	3.070e+04	y	1.636e+04	n	1.88 n	4.706e+04	3.665e+04	7.67e+00	y	0.243 1,2,3,4,7,8-HxCDD
36:53	5.908e+04	y	5.564e+04	n	1.06 y	1.147e+05	1.147e+05	1.64e+01	y	0.776 1,2,3,6,7,8-HxCDD
37:05	9.307e+03	y	9.334e+03	n	1.00 n	1.864e+04	1.681e+04	4.40e+00	y	0.110
37:11	4.929e+04	y	4.199e+04	n	1.17 y	9.128e+04	9.128e+04	1.53e+01	y	0.566 1,2,3,7,8,9-HxCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HpCDD EMPC Function: 4 Run #: 13 Checkcode: 1692  
 File Name: 090325P1 Sample #: 6 Sample text: P1193\_6679\_002 PO-BA-25-SS-A-090316 10.»

Acquired: 25-MAR-09 18:30:42 Processed: 26-MAR-09 08:40:41

Total Conc.: 54.964 Unnamed Conc.: \* Homolog count: 2

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
39:32	1.769e+06	n	1.695e+06	n	1.04 y	3.464e+06	3.464e+06	2.20e+02	y	28.9 1,2,3,4,6,7,9-HpCDD



4J:23 1.581e+06 n 1.552e+06 n 1.02 y 3.133e+06 3.133e+06 1.94e+02 y 26.1 1,2,3,4,6,7,8-HpCDD  
Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDF EMPC Function: 1 Run #: 13 Checkcode: 1692  
File Name: 090325P1 Sample #: 6 Sample text: P1193\_6679\_002 PO-BA-25-SS-A-090316 10.»

Acquired: 25-MAR-09 18:30:42 Processed: 26-MAR-09 08:40:41

Total Conc.: \* Unnamed Conc.: \* Homolog count: 0

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
NotF*	* n	* n	* n	*	*	*	*	n	*	
Totals Results Analytical Perspectives [Form: TOT]										

Totals class: PeCDF EMPC Function: 2 Run #: 13 Checkcode: 1692  
File Name: 090325P1 Sample #: 6 Sample text: P1193\_6679\_002 PO-BA-25-SS-A-090316 10.»

Acquired: 25-MAR-09 18:30:42 Processed: 26-MAR-09 08:40:41

Total Conc.: 0.16058 Unnamed Conc.: 0.128 Homolog count: 2 ✓

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
30:12	3.039e+04	n	1.409e+04	y	2.16 n	4.448e+04	3.592e+04	3.68e+00 y	0.128	
32:30	5.797e+03	n	4.800e+03	y	1.21 n	1.060e+04	9.538e+03	2.47e+00 n	0.0325	2,3,4,7,8-PeCDF
Totals Results Analytical Perspectives [Form: TOT]										

Totals class: HxCDF EMPC Function: 3 Run #: 13 Checkcode: 1692  
File Name: 090325P1 Sample #: 6 Sample text: P1193\_6679\_002 PO-BA-25-SS-A-090316 10.»

Acquired: 25-MAR-09 18:30:42 Processed: 26-MAR-09 08:40:41

Total Conc.: 3.6866 Unnamed Conc.: 2.764 Homolog count: 6 ✓

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
34:25	4.604e+04	n	4.479e+04	n	1.03 n	9.083e+04	8.317e+04	1.84e+01 y	0.371	1,2,3,4,6,8-HxCDF
34:37	1.779e+05	n	1.428e+05	n	1.25 y	3.207e+05	3.207e+05	6.79e+01 y	1.43	
35:16	1.732e+05	n	1.259e+05	n	1.38 y	2.992e+05	2.992e+05	6.32e+01 y	1.33	
35:48	2.281e+04	n	2.151e+04	n	1.06 y	4.432e+04	4.432e+04	1.24e+01 y	0.196	1,2,3,4,7,8-HxCDF
35:57	1.631e+04	n	1.825e+04	n	0.89 n	3.456e+04	2.946e+04	7.97e+00 y	0.125	1,2,3,6,7,8-HxCDF
36:36	3.057e+04	n	2.495e+04	n	1.22 y	5.552e+04	5.552e+04	9.44e+00 y	0.232	2,3,4,6,7,8-HxCDF
Totals Results Analytical Perspectives [Form: TOT]										

Totals class: HpCDF EMPC Function: 4 Run #: 13 Checkcode: 1692  
File Name: 090325P1 Sample #: 6 Sample text: P1193\_6679\_002 PO-BA-25-SS-A-090316 10.»

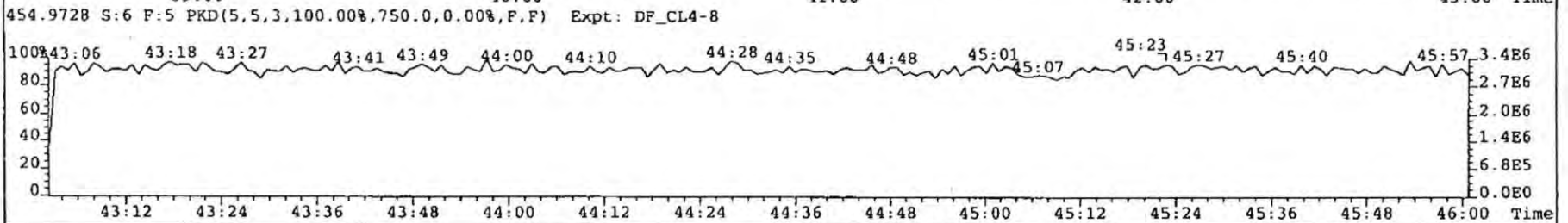
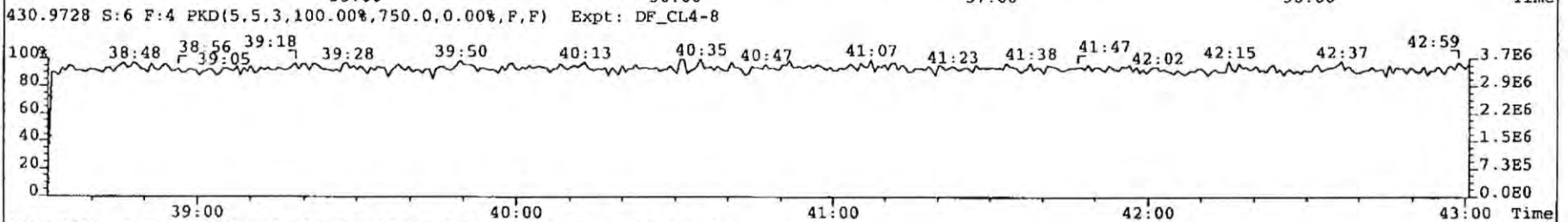
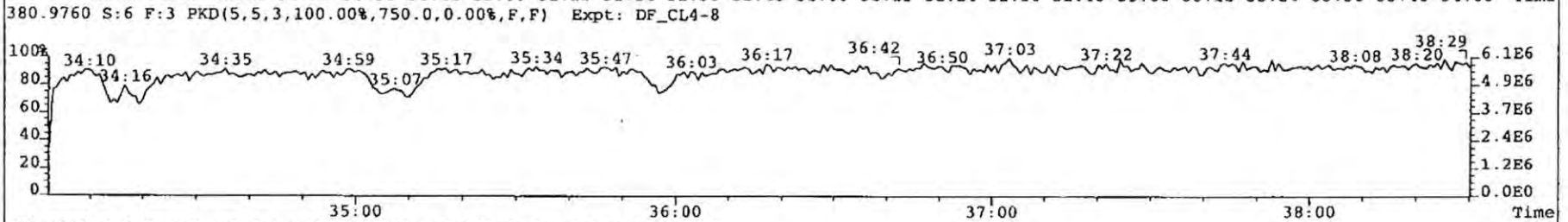
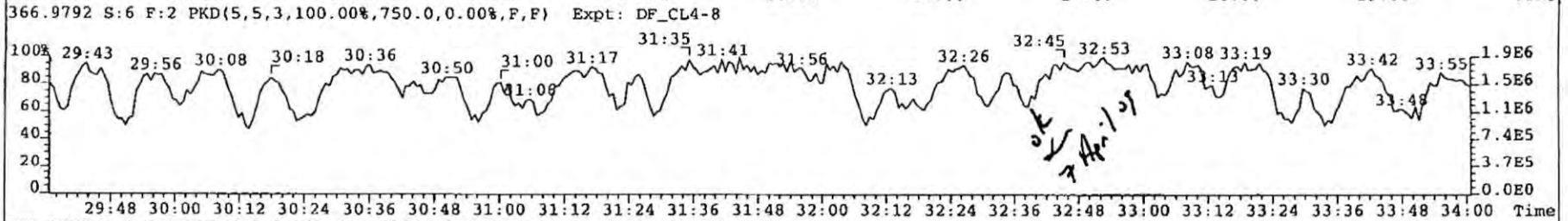
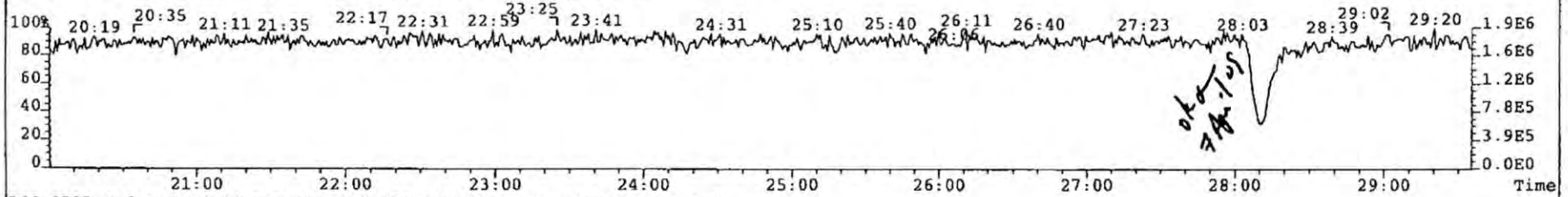
Acquired: 25-MAR-09 18:30:42 Processed: 26-MAR-09 08:40:41

Total Conc.: 14.073 Unnamed Conc.: 9.439 Homolog count: 4 ✓

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
39:13	4.087e+05	n	3.860e+05	n	1.06 y	7.948e+05	7.948e+05	1.06e+02 y	4.22	1,2,3,4,6,7,8-HpCDF
39:32	1.062e+04	n	1.536e+04	n	0.69 n	2.598e+04	2.083e+04	5.29e+00 y	0.124	

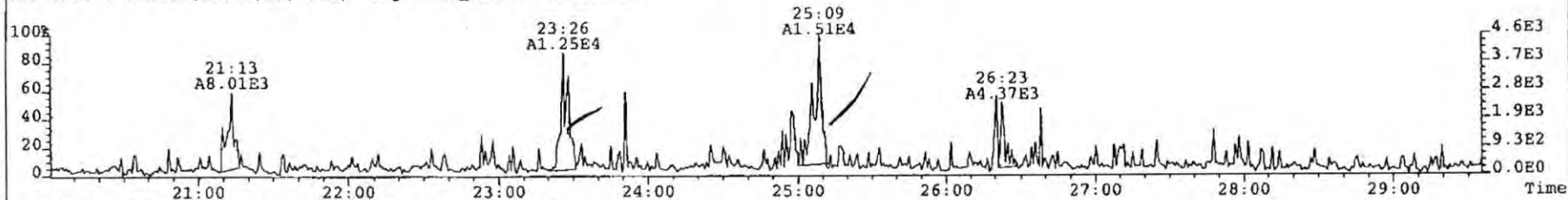
39:42 8.034e+05 n 7.620e+05 n 1.05 y 1.565e+06 1.565e+06 2.13e+02 y 9.31  
40:58 2.955e+04 n 3.183e+04 n 0.93 y 6.138e+04 6.138e+04 7.21e+00 y 0.416 1,2,3,4,7,8,9-HpCDF

File: 090325P1 Acq: 25-MAR-2009 18:30:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: P1193\_6679\_002 PD-BA-25-SS-A-090316 10.21g Vial# 19 File Text: AP DB5  
316.9824 S:6 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

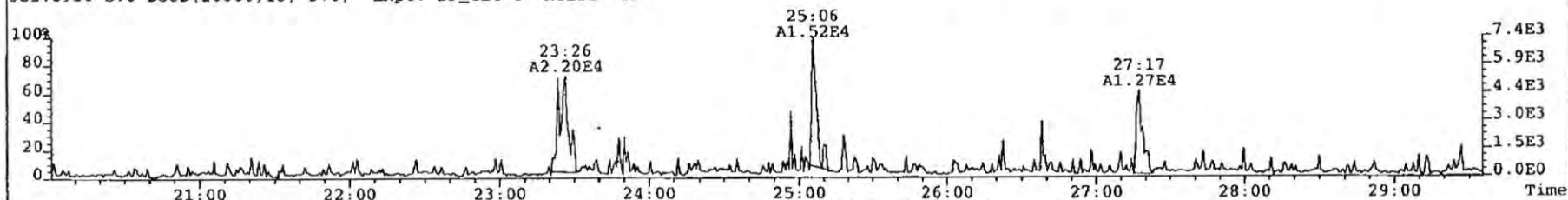




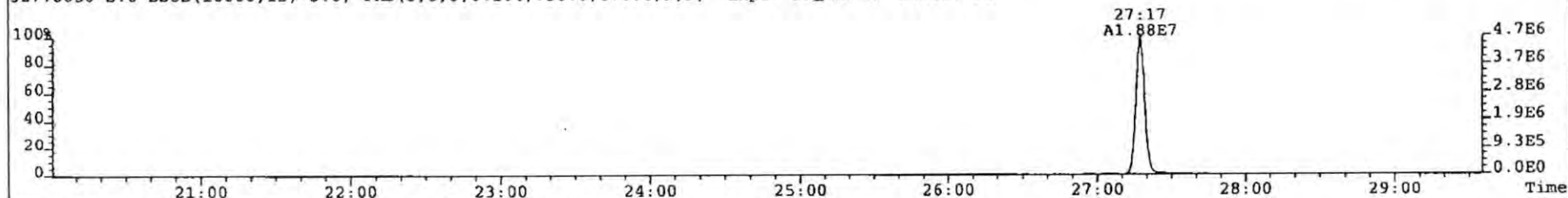
File: 090325P1 Acq: 25-MAR-2009 18:30:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: P1193\_6679\_002 PO-BA-25-SS-A-090316 10.21g Vial# 19 File Text: AP DB5  
319.8965 S:6 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 83



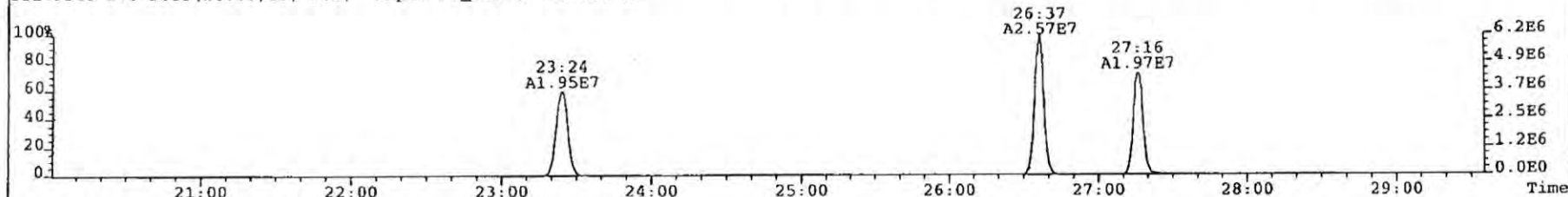
321.8936 S:6 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 83



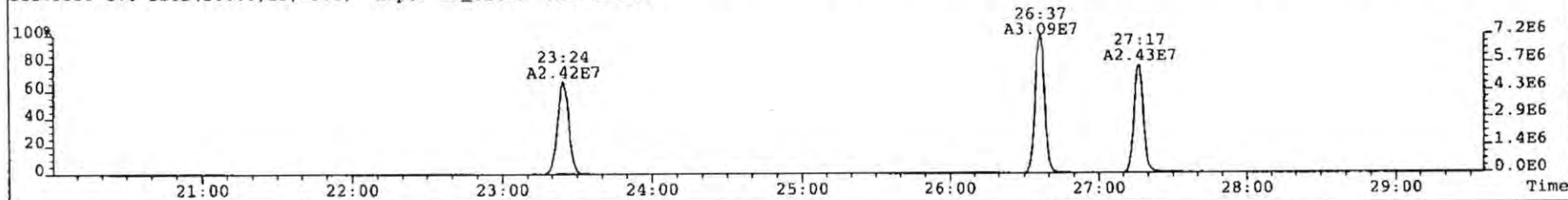
327.8850 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 95



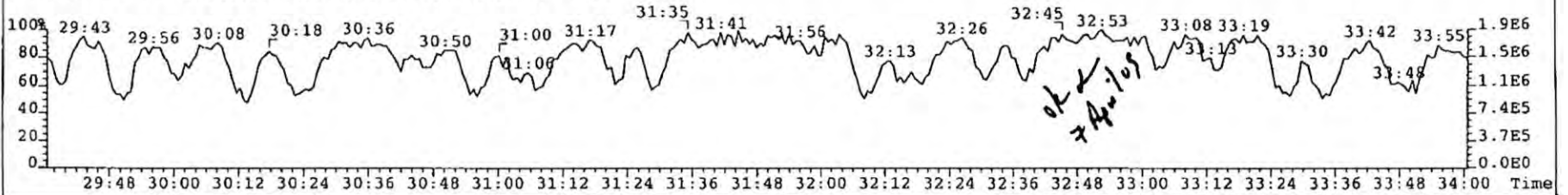
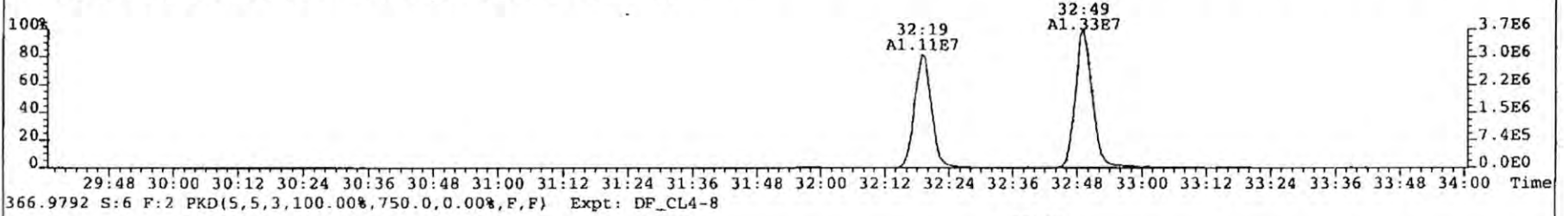
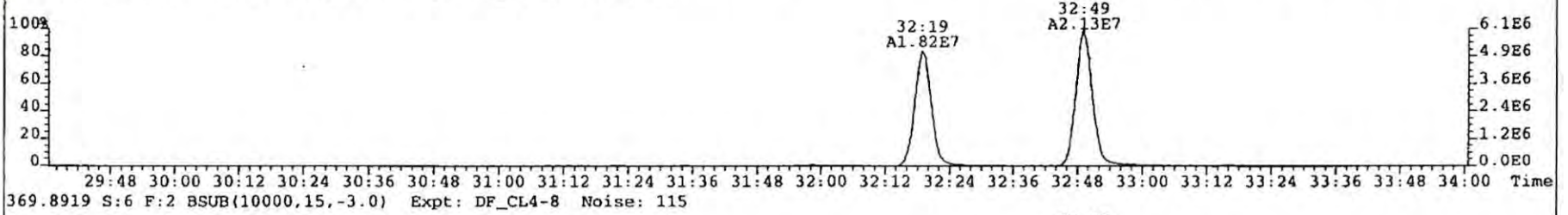
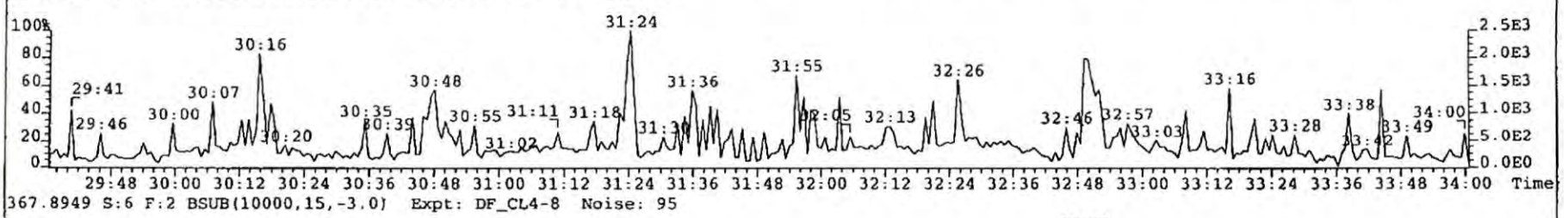
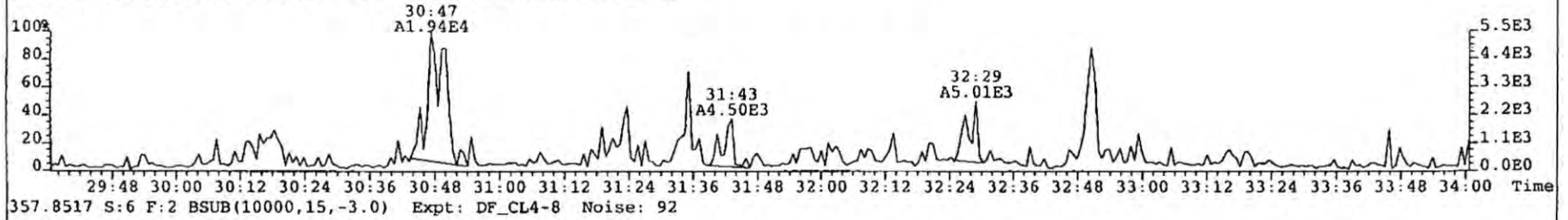
331.9368 S:6 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 85



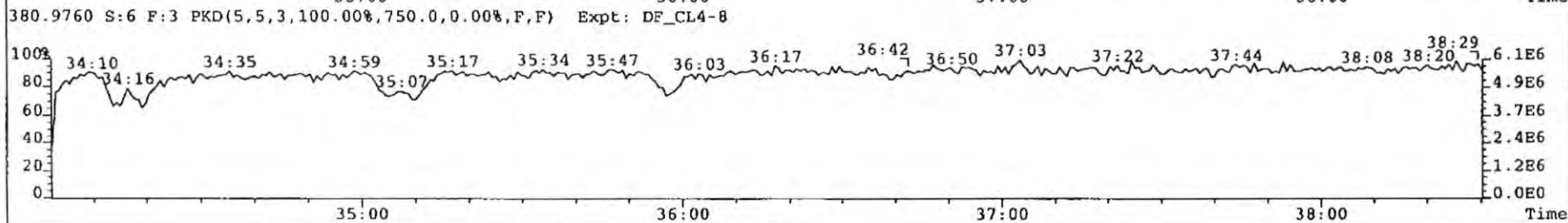
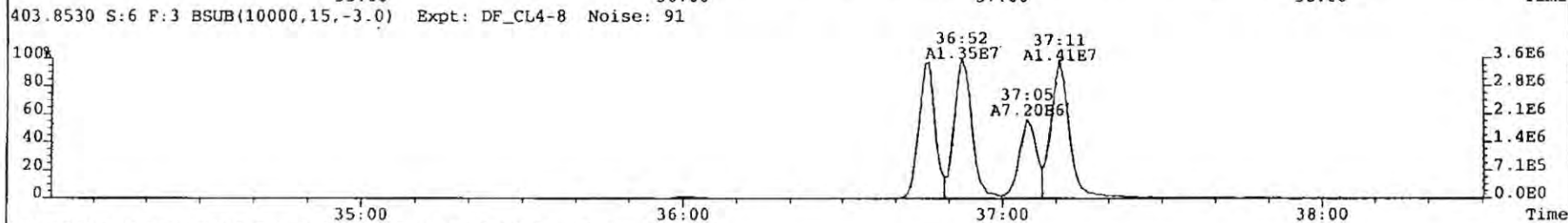
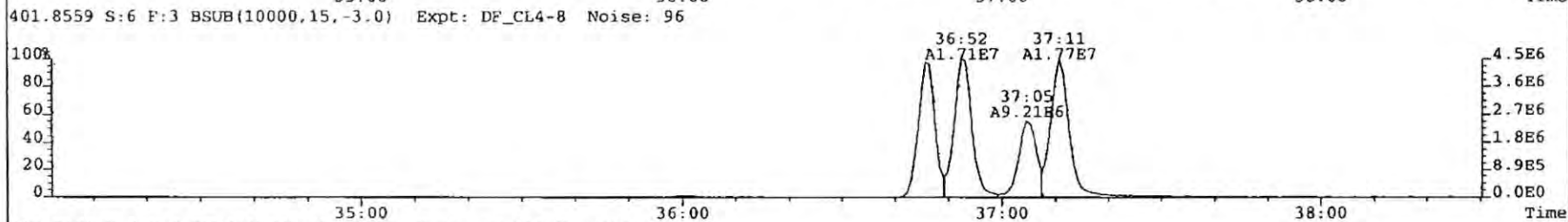
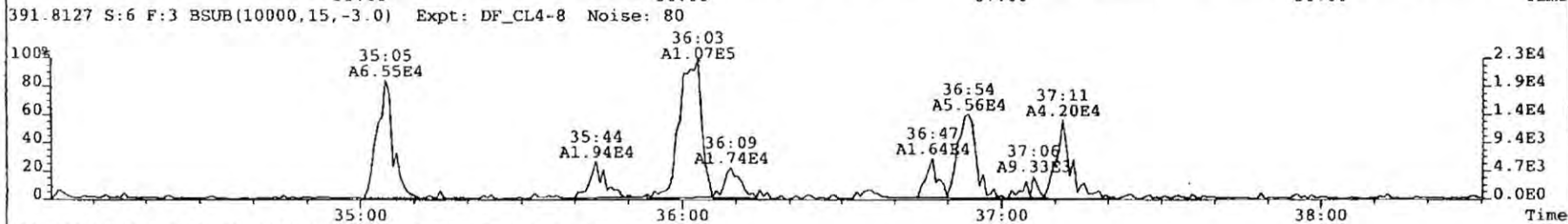
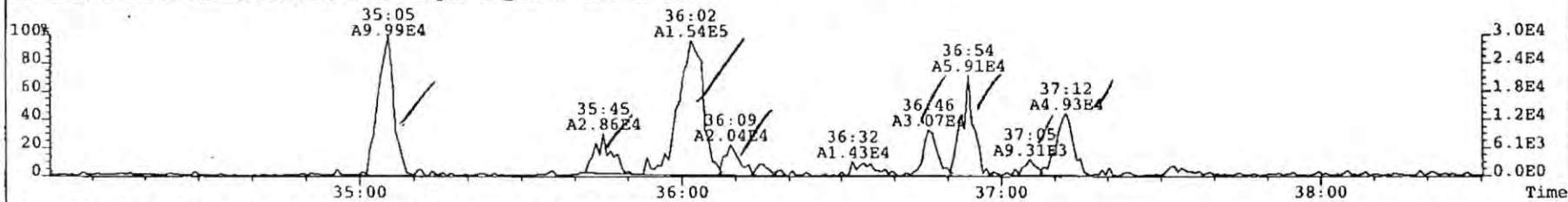
333.9339 S:6 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 103



File: 090325P1 Acq: 25-MAR-2009 18:30:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: P1193\_6679\_002 PO-BA-25-SS-A-090316 10.21g Vial# 19 File Text: AP DB5  
355.8546 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 81

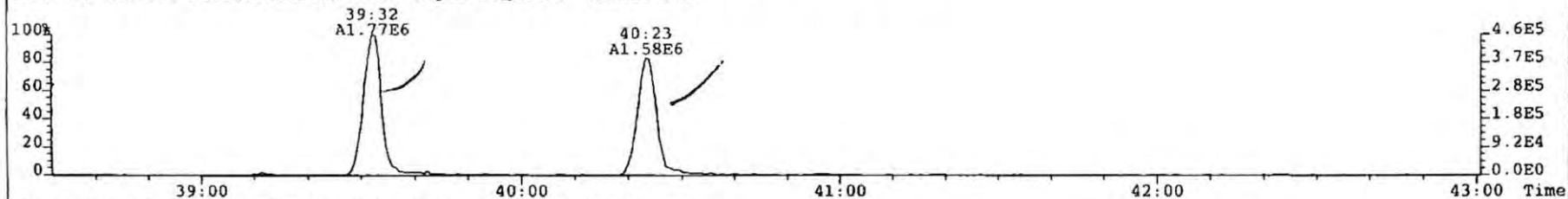


File: 090325P1 Acq: 25-MAR-2009 18:30:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: P1193\_6679\_002 PO-BA-25-SS-A-090316 10.21g Vial# 19 File Text: AP DB5  
389.8156 S:6 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 82

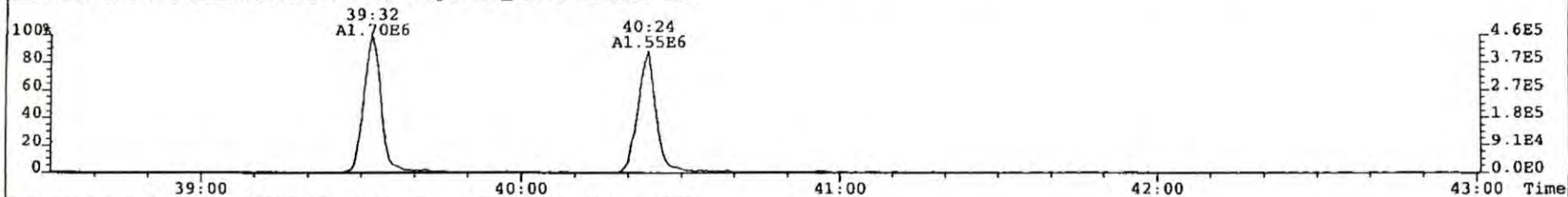




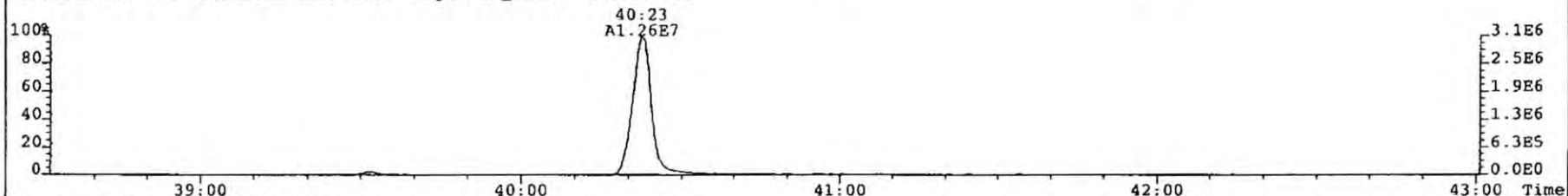
File: 090325PI Acq: 25-MAR-2009 18:30:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: P1193\_6679\_002 PO-BA-25-SS-A-090316 10.21g Vial# 19 File Text: AP DB5  
423.7767 S:6 F:4 BSub(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 266



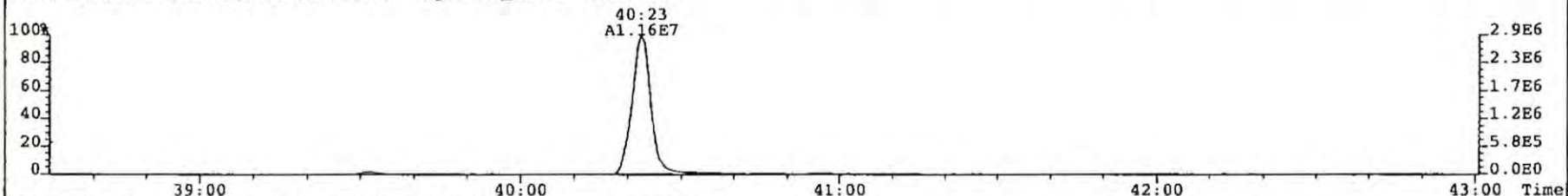
425.7737 S:6 F:4 BSub(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 426



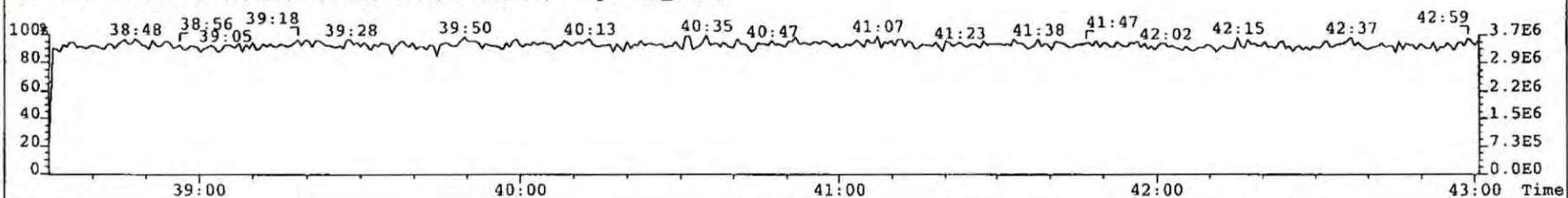
435.8169 S:6 F:4 BSub(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 538



437.8140 S:6 F:4 BSub(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 94

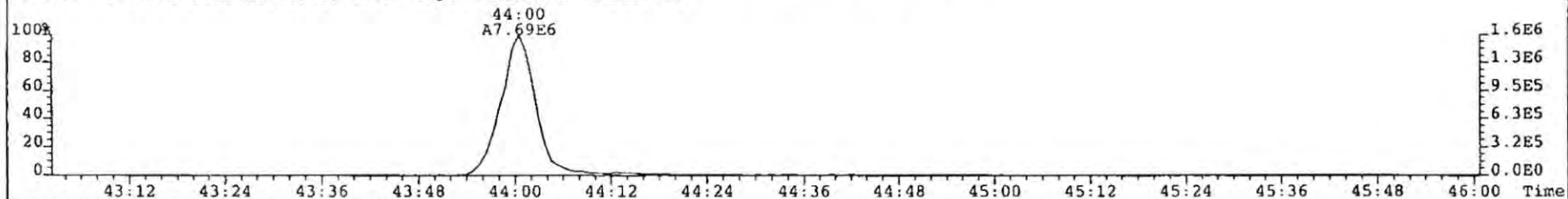


430.9728 S:6 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

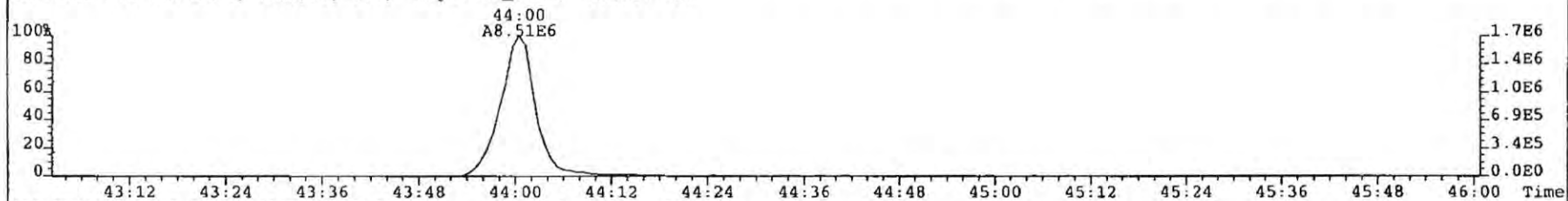




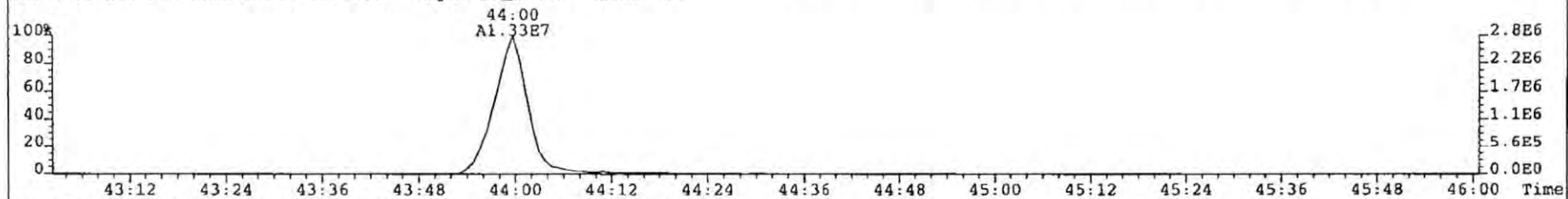
File: 090325P1 Acq: 25-MAR-2009 18:30:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: P1193\_6679\_002 PO-BA-25-SS-A-090316 10.21g Vial# 19 File Text: AP DB5  
457.7377 S:6 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 80



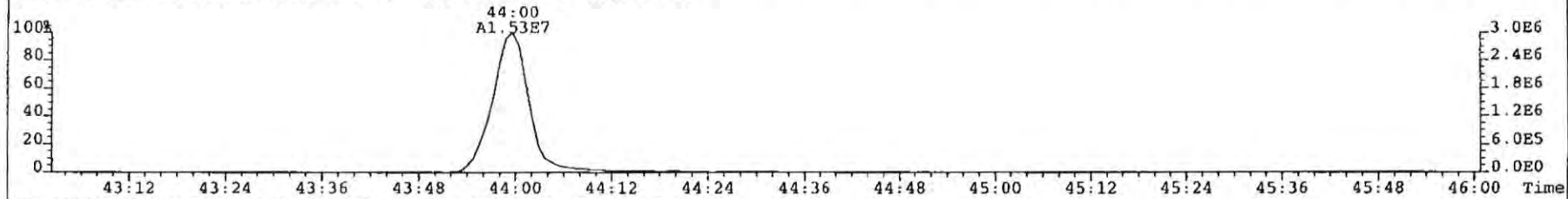
459.7348 S:6 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 232



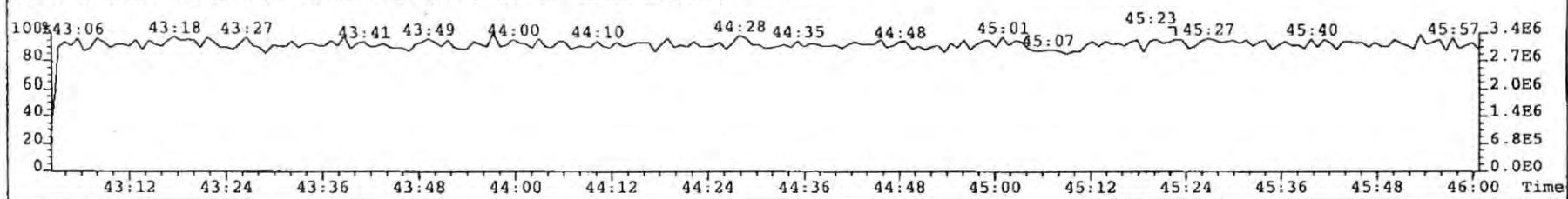
469.7780 S:6 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 85



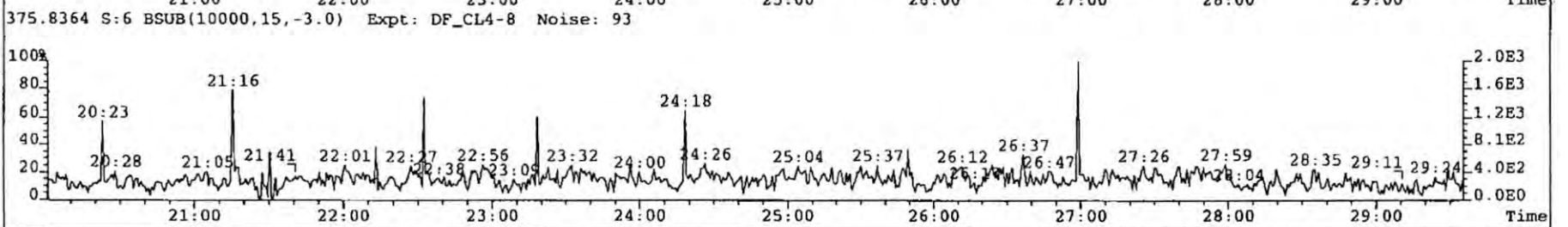
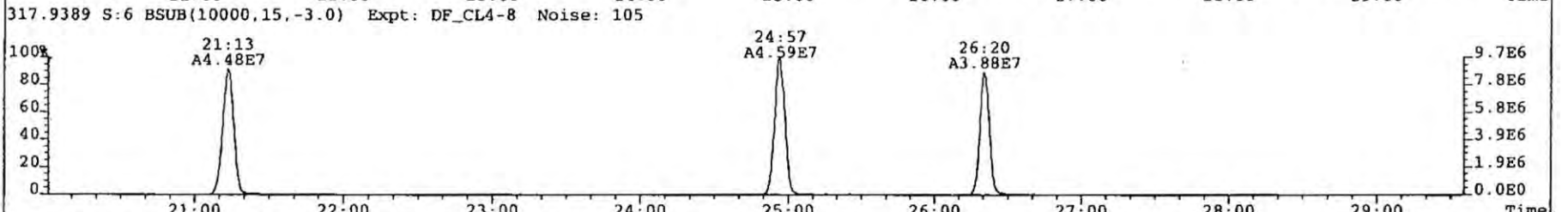
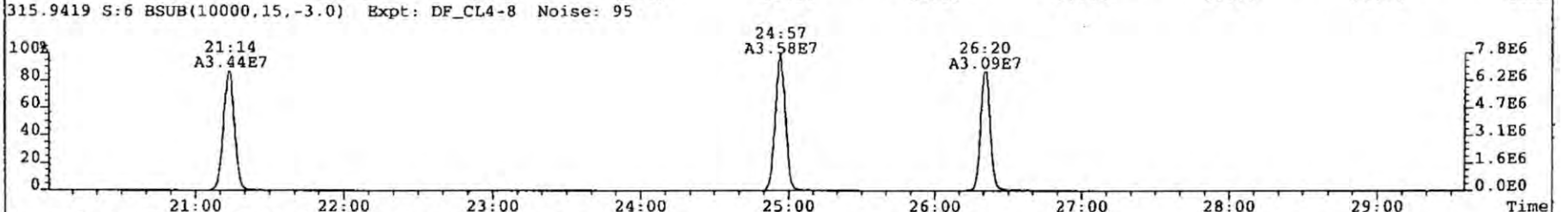
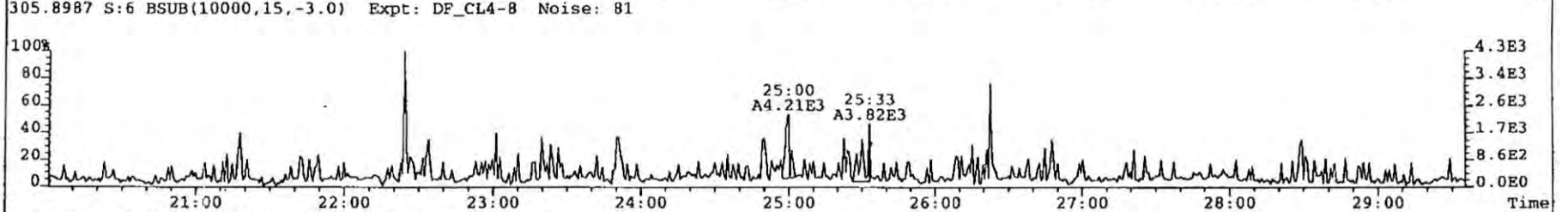
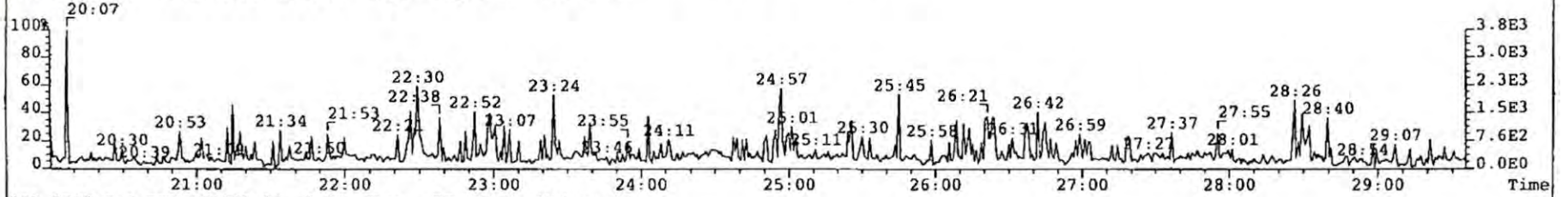
471.7750 S:6 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 395



454.9728 S:6 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

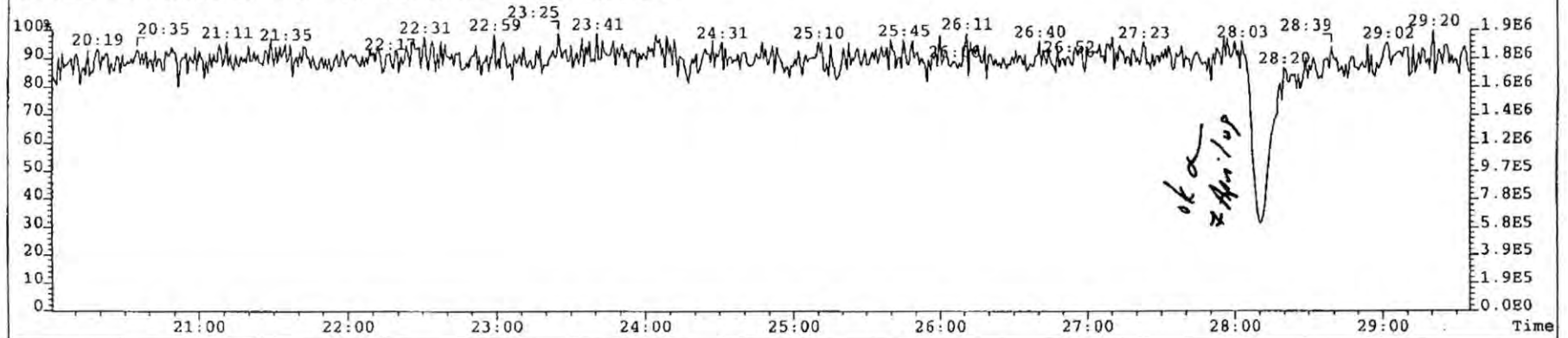
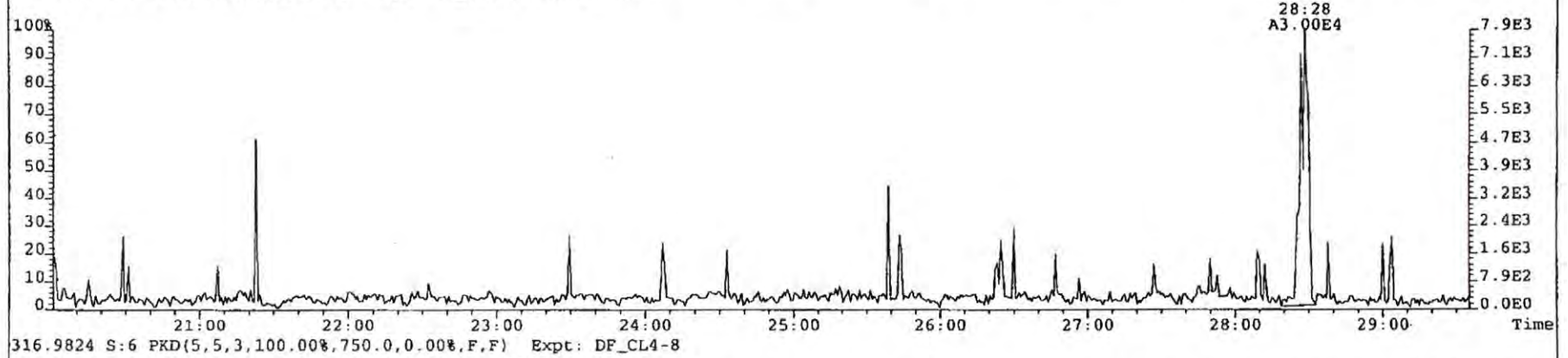
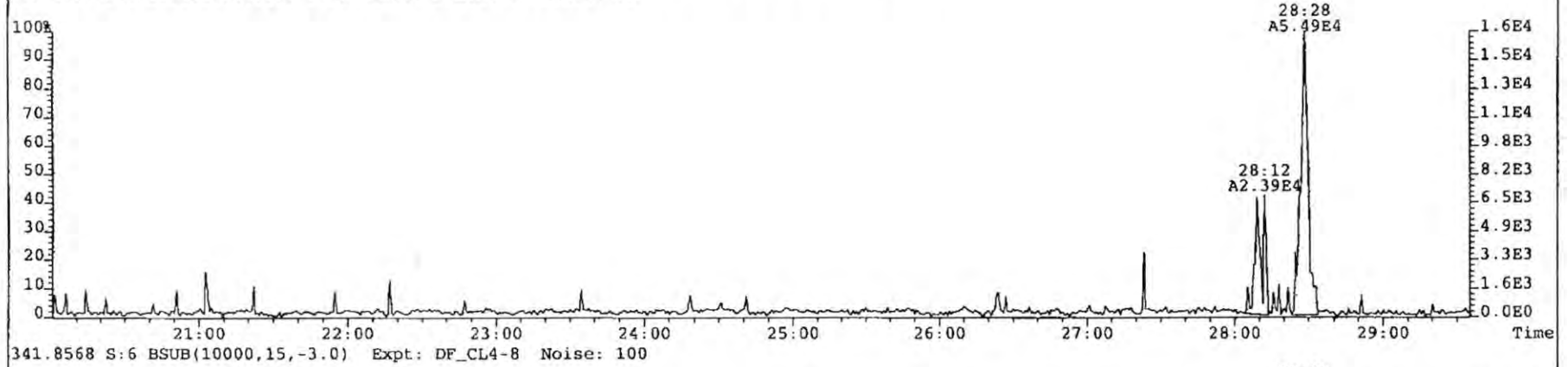


File: 090325P1 Acq: 25-MAR-2009 18:30:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: P1193\_6679\_002 PO-BA-25-SS-A-090316 10.21g Vial# 19 File Text: AP DBS  
303.9016 S:6 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 90

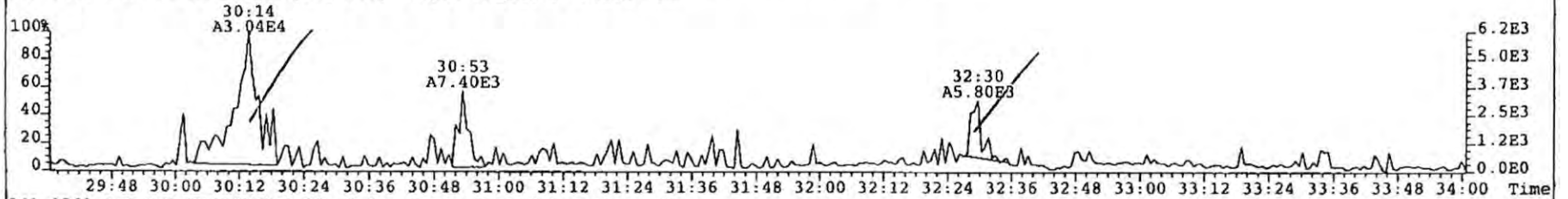




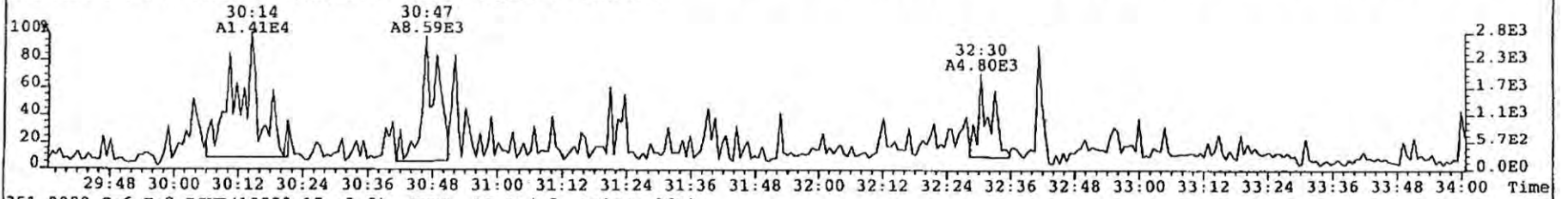
File: 090325P1 Acq: 25-MAR-2009 18:30:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: P1193\_6679\_002 PO-BA-25-SS-A-090316 10.21g Vial# 19 File Text: AP DB5  
339.8597 S:6 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 99



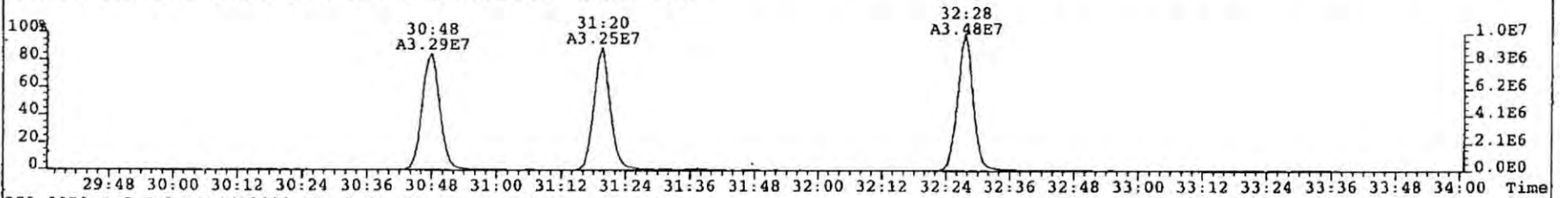
File: 090325P1 Acq: 25-MAR-2009 18:30:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: P1193\_6679\_002 PO-BA-25-SS-A-090316 10.21g Vial# 19 File Text: AP DB5  
339.8597 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 95



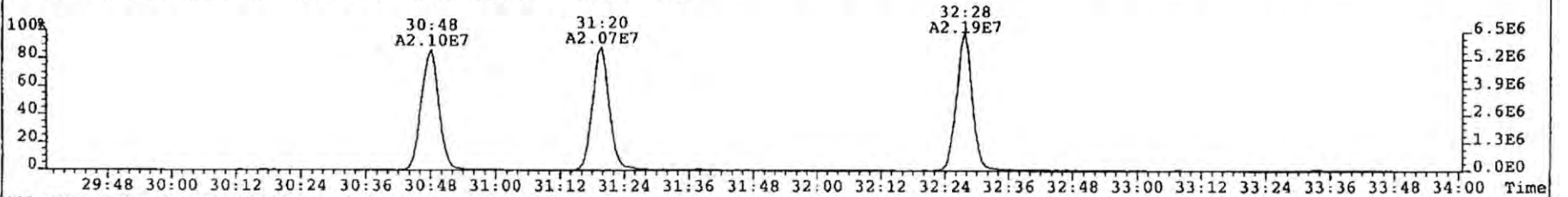
341.8568 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 97



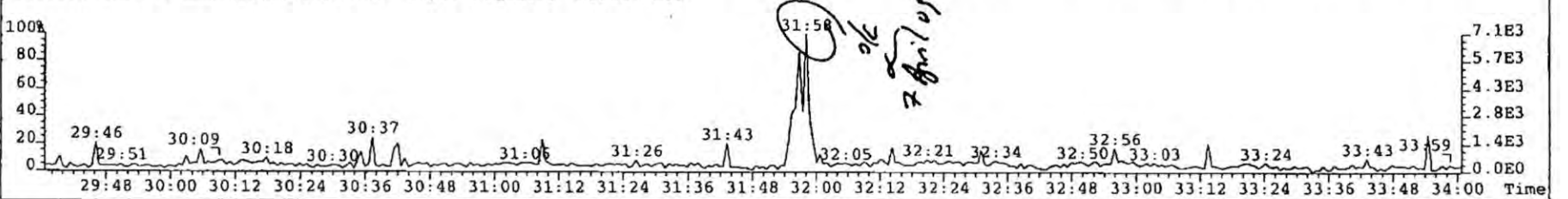
351.9000 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 2659



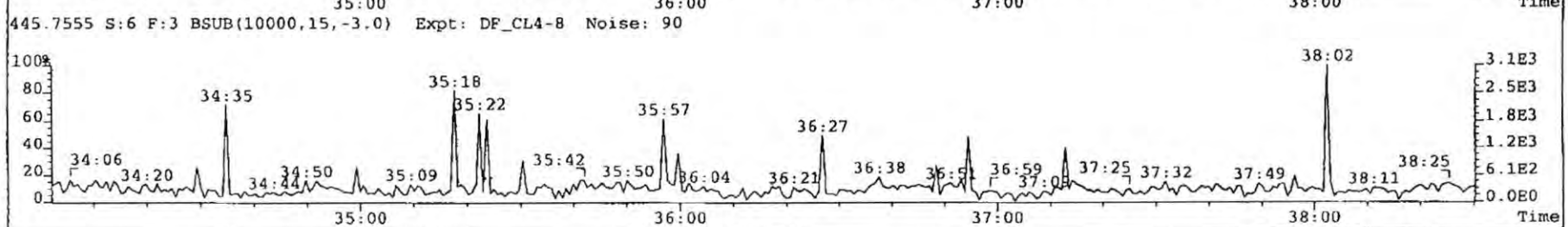
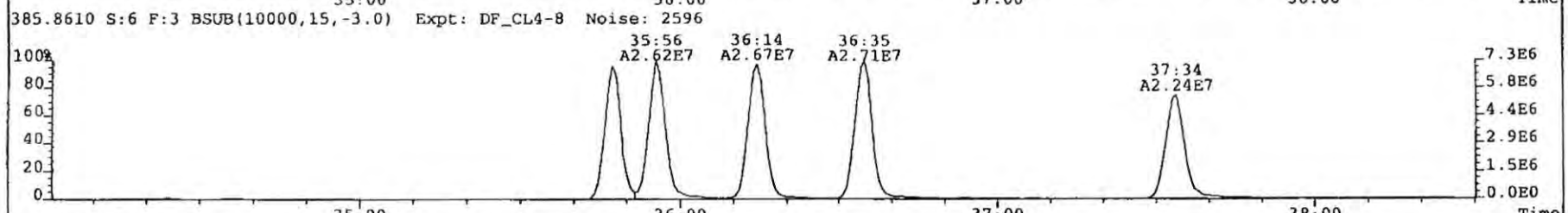
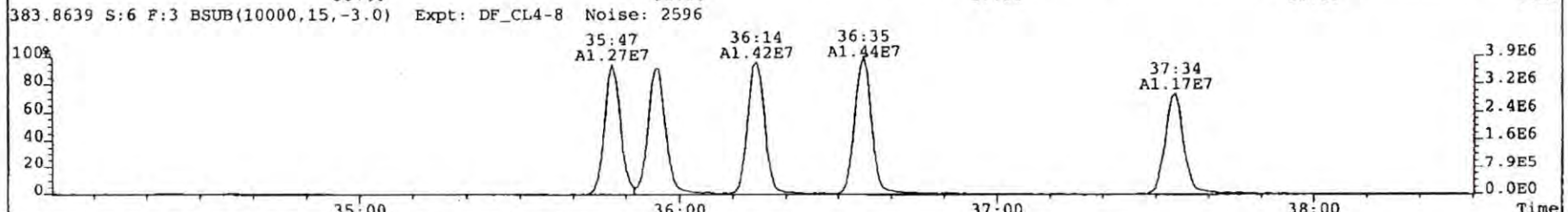
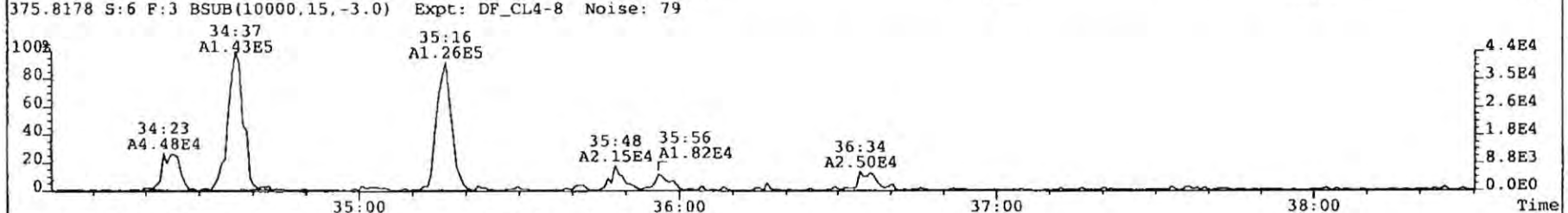
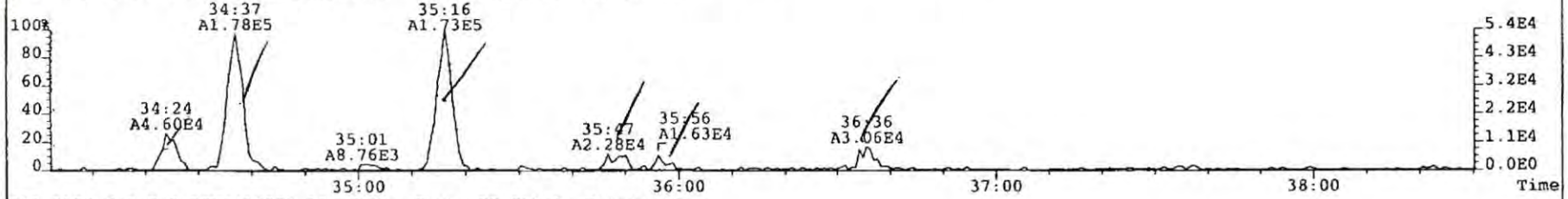
353.8970 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1452



409.7974 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 109

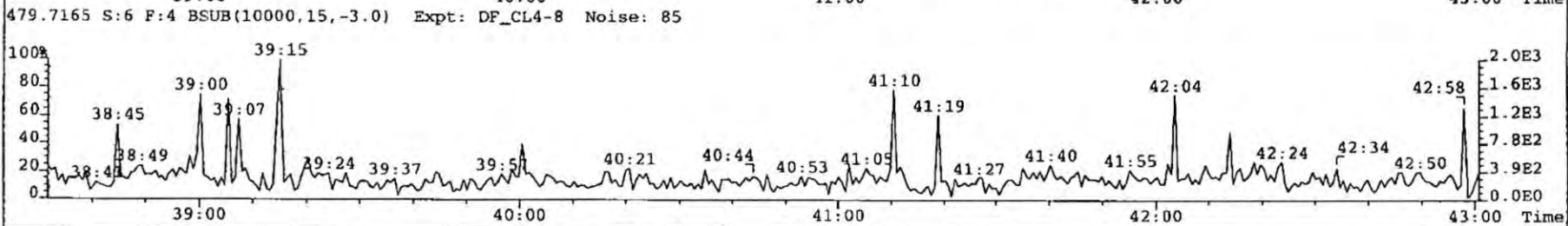
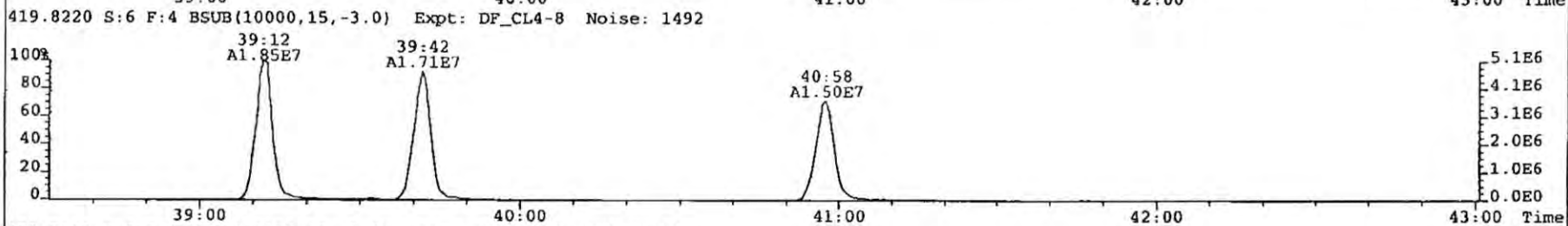
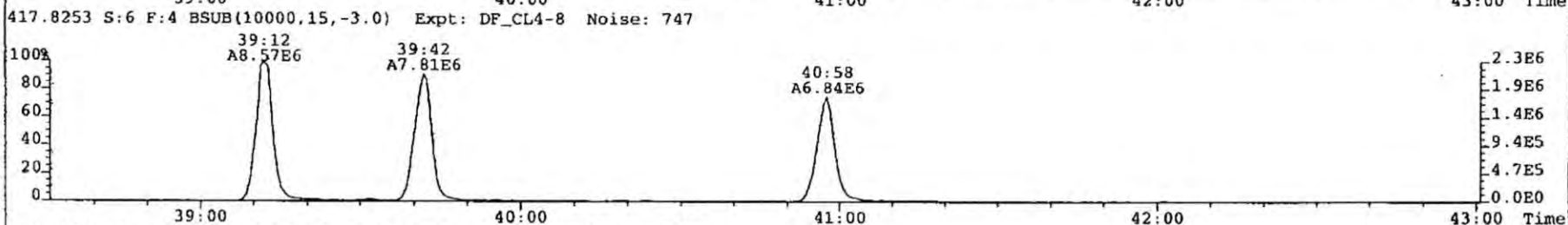
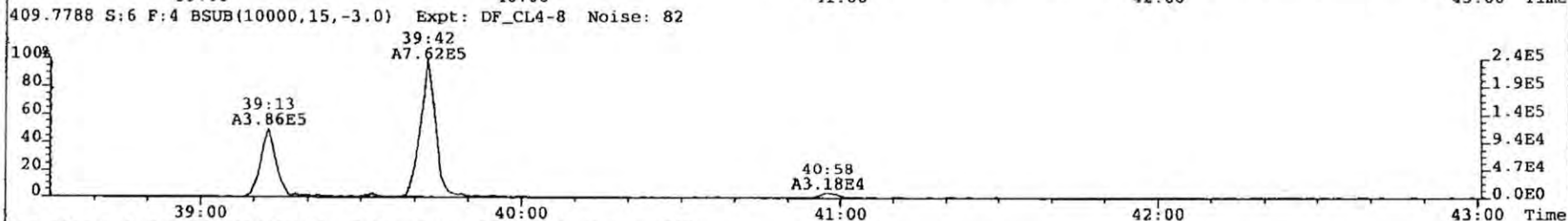
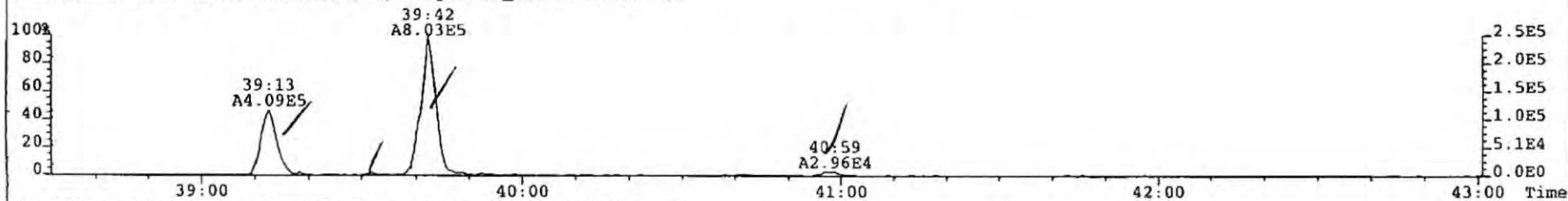


File: 090325P1 Acq: 25-MAR-2009 18:30:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: P1193\_6679\_002 PO-BA-25-SS-A-090316 10.21g Vial# 19 File Text: AP DB5  
373.8207 S:6 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 80

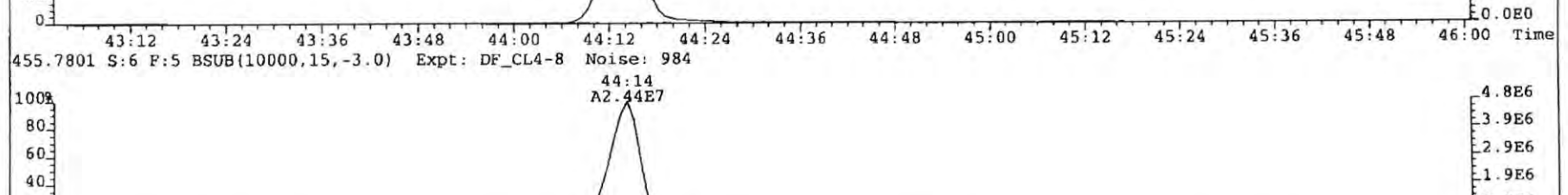
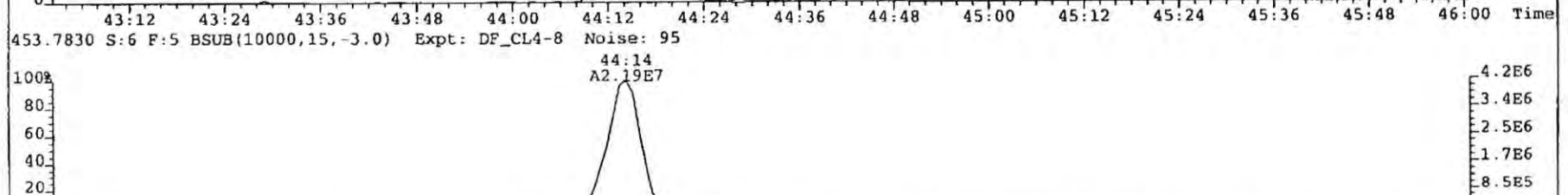
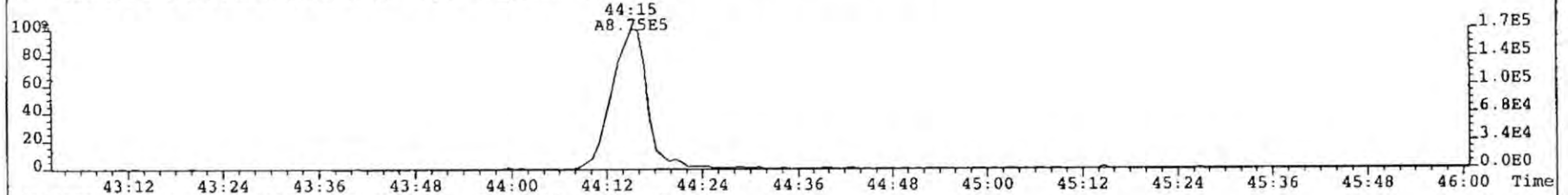




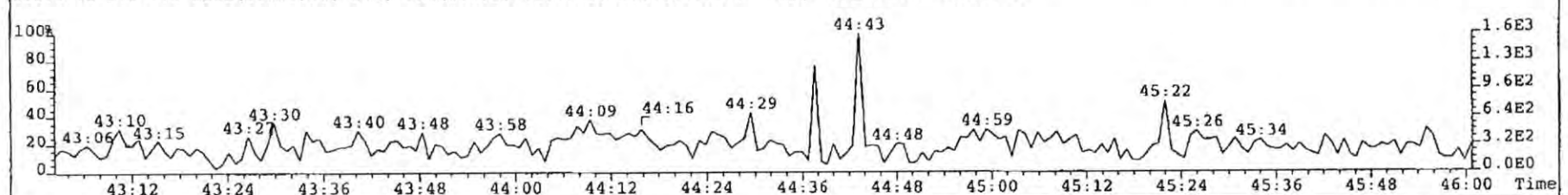
File: 090325P1 Acq: 25-MAR-2009 18:30:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: P1193\_6679\_002 PO-BA-25-SS-A-090316 10.21g Vial# 19 File Text: AP DBS  
407.7818 S:6 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 81



File: 090325P1 Acq: 25-MAR-2009 18:30:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: P1193\_6679\_002 PO-BA-25-SS-A-090316 10.21g Vial# 19 File Text: AP DB5  
441.7428 S:6 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 71



443.7398 S:6 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 85  
453.7830 S:6 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 95  
455.7801 S:6 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 984  
513.6775 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 94





1613/8290 Sample Summary

Analytical Perspectives

[Form: DF]

Client ID: PO-BA-26-SS-A-090316
Lab ID: P1193\_6679\_003
Sample text: P1193\_6679\_003 PO-BA-26-SS-A-090316 10.5g

Filename: 090325P1
GC column ID: db-5

S: 7 Vial: 20 Acq: 25-MAR-09 19:20:51
Cal: MM1\_DF\_07012007A\_25DEC08Wt/Vol: 10.48
Stds: JS (split adj.): 2000 CS/SS: 800 ES: 2000

Table with columns: Typ, Name, Resp, RA, RT, RRF, Conc., Noise, Fac, DL, Rec. Rows include various chemical compounds like TCDD, PeCDD, HxCDD, HxCDF, HpCDD, OCDD, OCDF, and their respective analytical results.

Analyst: [Signature]

Date: [Signature]

7 April 09



SS	37C1-2,3,7,8-TCDD	1.55e+07		27:17	1.00	77.7		0.220	102
SS	13C-1,2,3,4,7-PeCDD	2.94e+07	1.66 y	32:19	0.93	201	7062 2.5	1.15	105
SS	13C-1,2,3,4,6-PeCDF	4.92e+07	1.55 y	30:48	0.94	198	8979 2.5	0.849	104
SS	13C-1,2,3,4,6,9-HxCDF	3.35e+07	0.54 y	36:14	0.80	208	15070 2.5	1.27	109
SS	13C-1,2,3,4,6,8,9-HpCDF	2.13e+07	0.45 y	39:42	0.79	211	8601 2.5	1.04	111
SBS	2,4,6,8-TCDF	3.21e+04	0.63 n	22:26	1.05	0.0947	556 2.5	0.0323	-
Ay	1,3,6,8-TCDD	2.24e+04	0.85 y	23:25	1.08	0.104	1199 2.5	0.102	-
Ay	1,2,3,9-TCDD	*	* n	NotF*	1.08	*	1199 2.5	0.102	-
Ay	1,2,8,9-TCDD	*	* n	NotF*	1.08	*	1199 2.5	0.102	-
Ay	1,2,4,7,9-PeCDD	*	* n	NotF*	1.00	*	659 2.5	0.1000	-
Ay	1,2,3,8,9-PeCDD	*	* n	NotF*	1.00	*	659 2.5	0.1000	-
Ay	1,2,4,6,7,9-HxCDD	4.28e+04	1.67 n	35:04	1.00	0.314	937 2.5	0.143	-
Ay	1,2,3,4,6,7,9-HpCDD	5.58e+05	1.10 y	39:32	0.97	5.19	1580 2.5	0.280	-
Ay	1,3,6,8-TCDF	*	* n	NotF*	1.05	*	556 2.5	0.0323	-
Ay	2,3,4,8-TCDF	2.76e+04	0.76 y	26:14	1.05	0.0815	556 2.5	0.0323	-
Ay	1,2,8,9-TCDF	*	* n	NotF*	1.05	*	556 2.5	0.0323	-
Ay	1,3,4,6,8-PeCDF	1.24e+04	1.04 n	28:29	1.05	0.0367	2085 2.5	0.121	-
Ay	1,2,3,8,9-PeCDF	*	* n	NotF*	1.00	*	784 2.5	0.0678	-
Ay	1,2,3,4,6,8-HxCDF	7.30e+03	1.62 n	34:24	1.15	0.0354	1925 2.5	0.128	-
Tot	Total Tetra-Dioxins	2.24e+04	0.85 y	23:25	1.08	0.104	1199 2.5	0.102	-
Tot	Total Penta-Dioxins	*	* n	NotF*	1.00	*	659 2.5	0.1000	-
Tot	Total Hexa-Dioxins	*	* n	NotF*	1.00	*	937 2.5	0.143	-
Tot	Total Hepta-Dioxins	7.73e+05	1.10 y	39:32	0.97	7.18	1580 2.5	0.280	-
Tot	Total Tetra-Furans	2.76e+04	0.76 y	26:14	1.05	0.0815	556 2.5	0.0323	-
Tot	Total Penta-Furans	*	* n	NotF*	1.00	*	784 2.5	0.0678	-
Tot	Total Hexa-Furans	*	* n	NotF*	1.15	*	1925 2.5	0.128	-
Tot	Total Hepta-Furans	9.19e+04	0.92 y	39:42	1.35	0.598	949 2.5	0.0825	-
Tot	TCDD EMPC	5.62e+04	0.85 y	23:25	1.08	0.260	1199 2.5	0.102	-
Tot	PeCDD EMPC	*	* n	NotF*	1.00	*	659 2.5	0.1000	-
Tot	HxCDD EMPC	9.04e+04	1.67 n	35:04	1.00	0.663	937 2.5	0.143	-
Tot	HpCDD EMPC	7.73e+05	1.10 y	39:32	0.97	7.18	1580 2.5	0.280	-
Tot	TCDF EMPC	5.98e+04	0.63 n	22:26	1.05	0.176	556 2.5	0.0323	-
Tot	PeCDF EMPC	*	* n	NotF*	1.00	*	784 2.5	0.0678	-
Tot	HxCDF EMPC	6.41e+04	1.62 n	34:24	1.15	0.311	1925 2.5	0.128	-
Tot	HpCDF EMPC	1.49e+05	0.81 n	39:13	1.35	0.924	949 2.5	0.0825	-
AS	13C-1,3,6,8-TCDD	3.84e+07	0.82 y	23:23	1.09	132	1445 2.5	0.0925	69.1
AS	13C-1,3,6,8-TCDF	7.18e+07	0.80 y	21:13	1.09	167	2453 2.5	0.125	87.5
DPE	HxCdPE	*		NotF*	-	*	-	-	-
DPE	HpCdPE	*		NotF*	-	*	-	-	-
DPE	OCdPE	*		NotF*	-	*	-	-	-
DPE	NCdPE	*		NotF*	-	*	-	-	-
DPE	DCdPE	*		NotF*	-	*	-	-	-
LMC	Fn1 check mass	*		NotF*	-	*	-	-	-
LMC	Fn2 check mass	*		NotF*	-	*	-	-	-
LMC	Fn3 check mass	*		NotF*	-	*	-	-	-
LMC	Fn4 check mass	*		NotF*	-	*	-	-	-
LMC	Fn5 check mass	*		NotF*	-	*	-	-	-

na

Handwritten notes:   
 7 4h/10p   
 OK

Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDD EMPC Function: 1 Run #: 14 Checkcode: 0702  
 File Name: 090325P1 Sample #: 7 Sample text: P1193\_6679\_003 PO-BA-26-SS-A-090316 10.>\*  
 Acquired: 25-MAR-09 19:20:51 Processed: 26-MAR-09 08:40:41  
 Total Conc.: 0.25954 Unnamed Conc.: 0.156 Homolog count: 2

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
23:25	1.032e+04	y	1.212e+04	n	0.85 y	2.244e+04	2.244e+04	1.81e+00	n	0.104 1,3,6,8-TCDD
25:06	1.468e+04	n	2.348e+04	n	0.63 n	3.816e+04	3.374e+04	5.95e+00	y	0.156

Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDD EMPC Function: 2 Run #: 14 Checkcode: 0702  
 File Name: 090325P1 Sample #: 7 Sample text: P1193\_6679\_003 PO-BA-26-SS-A-090316 10.>\*  
 Acquired: 25-MAR-09 19:20:51 Processed: 26-MAR-09 08:40:41  
 Total Conc.: \* Unnamed Conc.: \* Homolog count: 0

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
NotF*	* n	* n	* n	* n	* n	* *	* *	n	*	

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDD EMPC Function: 3 Run #: 14 Checkcode: 0702  
 File Name: 090325P1 Sample #: 7 Sample text: P1193\_6679\_003 PO-BA-26-SS-A-090316 10.>\*  
 Acquired: 25-MAR-09 19:20:51 Processed: 26-MAR-09 08:40:41  
 Total Conc.: 0.66258 Unnamed Conc.: 0.348 Homolog count: 3

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
35:04	3.192e+04	n	1.912e+04	y	1.67 n	5.105e+04	4.283e+04	7.20e+00	y	0.314 1,2,4,6,7,9-HxCDD
35:45	9.285e+03	y	5.495e+03	y	1.69 n	1.478e+04	1.231e+04	1.97e+00	n	0.0903
36:01	2.298e+04	y	1.572e+04	y	1.46 n	3.870e+04	3.521e+04	4.65e+00	y	0.258

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HpCDD EMPC Function: 4 Run #: 14 Checkcode: 0702  
 File Name: 090325P1 Sample #: 7 Sample text: P1193\_6679\_003 PO-BA-26-SS-A-090316 10.>\*  
 Acquired: 25-MAR-09 19:20:51 Processed: 26-MAR-09 08:40:41  
 Total Conc.: 7.1824 Unnamed Conc.: \* Homolog count: 2

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
39:32	2.927e+05	n	2.655e+05	n	1.10 y	5.582e+05	5.582e+05	5.19e+01	y	5.19 1,2,3,4,6,7,9-HpCDD
40:23	1.125e+05	n	1.020e+05	n	1.10 y	2.144e+05	2.144e+05	1.91e+01	y	1.99 1,2,3,4,6,7,8-HpCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDF EMPC Function: 1 Run #: 14 Checkcode: 0702  
 File Name: 090325P1 Sample #: 7 Sample text: P1193\_6679\_003 PO-BA-26-SS-A-090316 10.>\*  
 Acquired: 25-MAR-09 19:20:51 Processed: 26-MAR-09 08:40:41



Acquired: 25-MAR-09 19:20:51 Processed: 26-MAR-09 08:40:41

Total Conc.: 0.17619 Unnamed Conc.: \* Homolog count: 2

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name		
22:26	1.397e+04	n	2.207e+04	n	0.63	n	3.604e+04	3.211e+04	1.18e+01	y	0.0947	2,4,6,8-TCDF
26:14	1.192e+04	y	1.573e+04	n	0.76	y	2.764e+04	2.764e+04	9.59e+00	y	0.0815	2,3,4,8-TCDF
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: PeCDF EMPC Function: 2 Run #: 14 Checkcode: 0702  
 File Name: 090325P1 Sample #: 7 Sample text: P1193\_6679\_003 PO-BA-26-SS-A-090316 10.»

Acquired: 25-MAR-09 19:20:51 Processed: 26-MAR-09 08:40:41

Total Conc.: \* Unnamed Conc.: \* Homolog count: 0

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
NotF» * n * n * n * * * n *										
Totals Results Analytical Perspectives [Form: TOT]										

Totals class: HxCDF EMPC Function: 3 Run #: 14 Checkcode: 0702  
 File Name: 090325P1 Sample #: 7 Sample text: P1193\_6679\_003 PO-BA-26-SS-A-090316 10.»

Acquired: 25-MAR-09 19:20:51 Processed: 26-MAR-09 08:40:41

Total Conc.: 0.31091 Unnamed Conc.: 0.276 Homolog count: 3

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name		
34:24	5.270e+03	n	3.258e+03	y	1.62	n	8.527e+03	7.297e+03	5.40e-01	n	0.0354	1,2,3,4,6,8-HxCDF
34:36	1.904e+04	n	1.110e+04	n	1.71	n	3.014e+04	2.487e+04	2.57e+00	y	0.121	
35:15	2.309e+04	n	1.425e+04	n	1.62	n	3.734e+04	3.193e+04	2.61e+00	y	0.155	
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: HpCDF EMPC Function: 4 Run #: 14 Checkcode: 0702  
 File Name: 090325P1 Sample #: 7 Sample text: P1193\_6679\_003 PO-BA-26-SS-A-090316 10.»

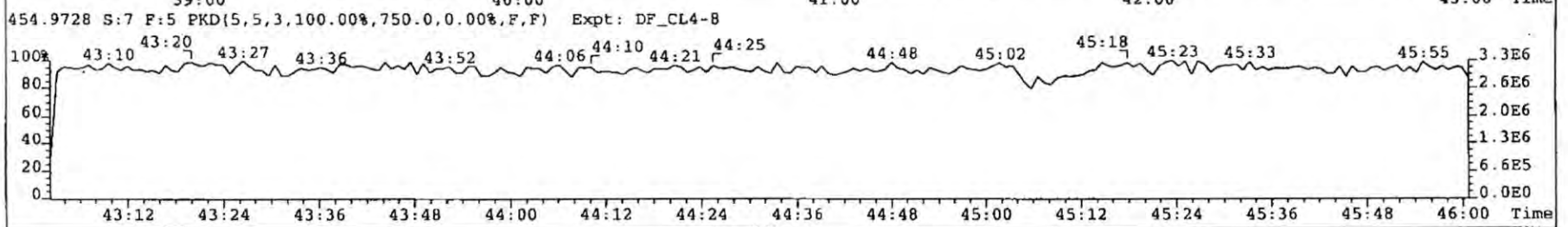
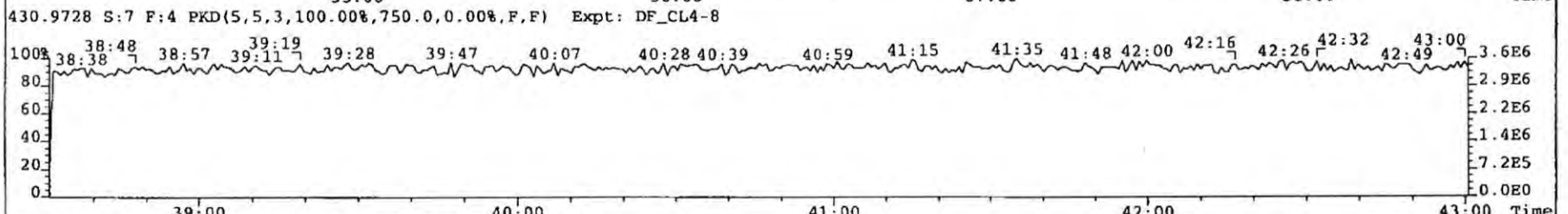
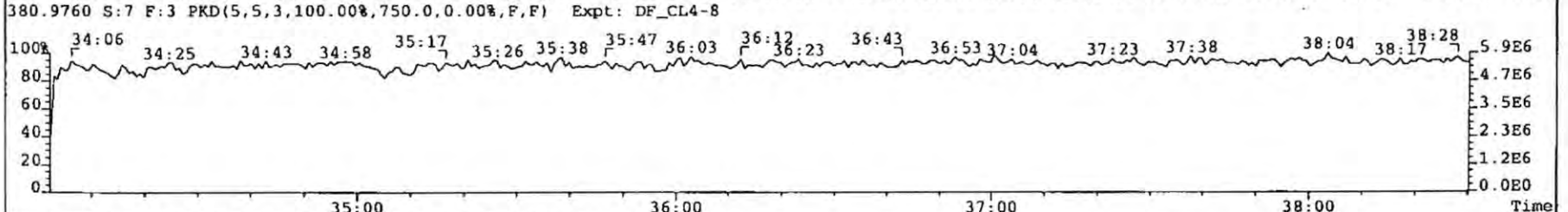
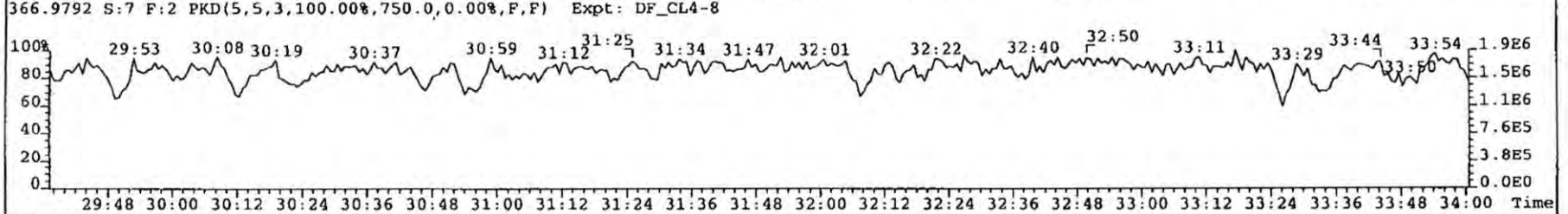
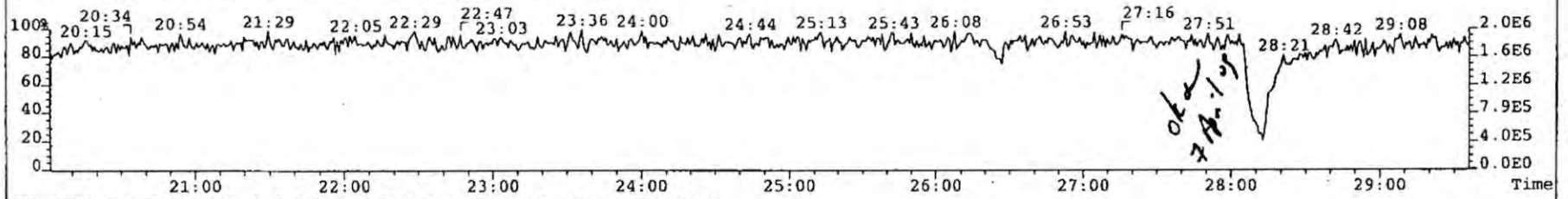
Acquired: 25-MAR-09 19:20:51 Processed: 26-MAR-09 08:40:41

Total Conc.: 0.92368 Unnamed Conc.: 0.598 Homolog count: 2

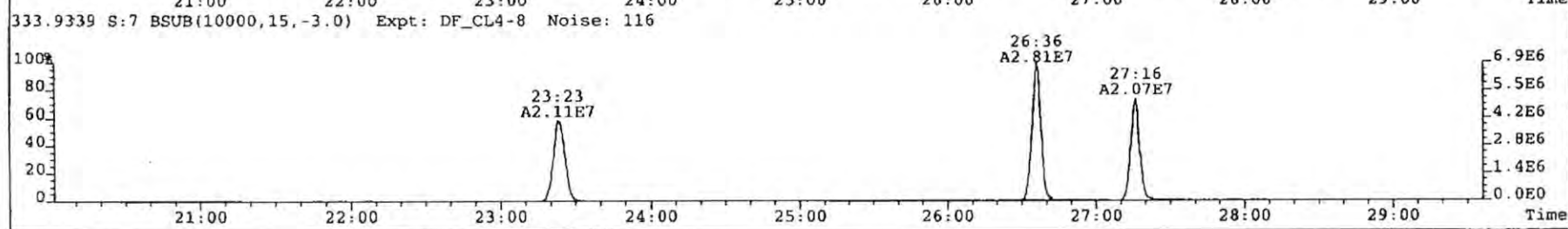
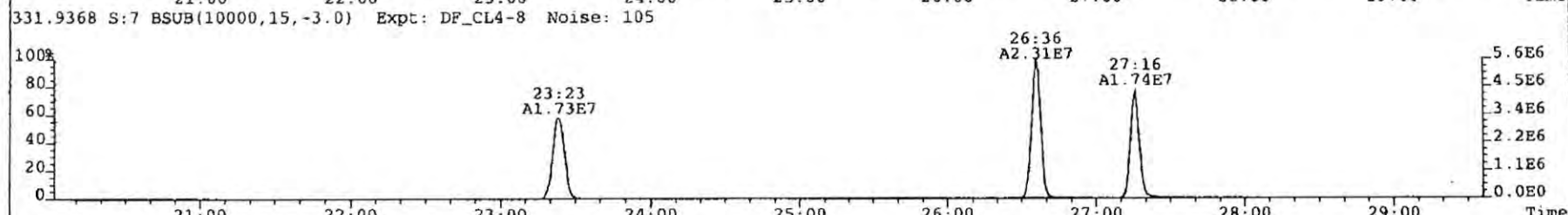
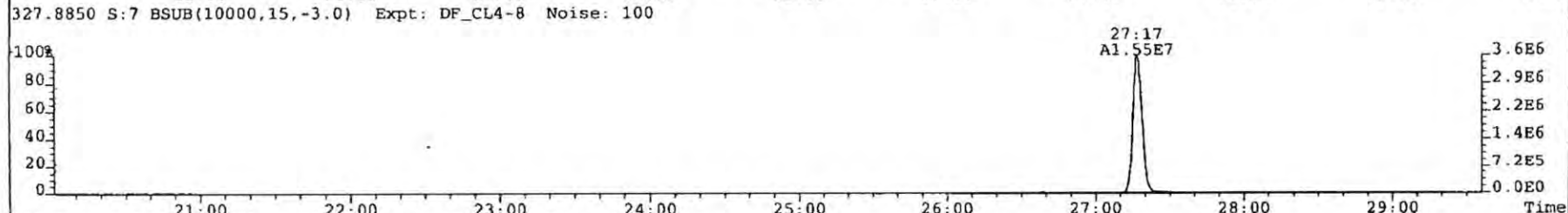
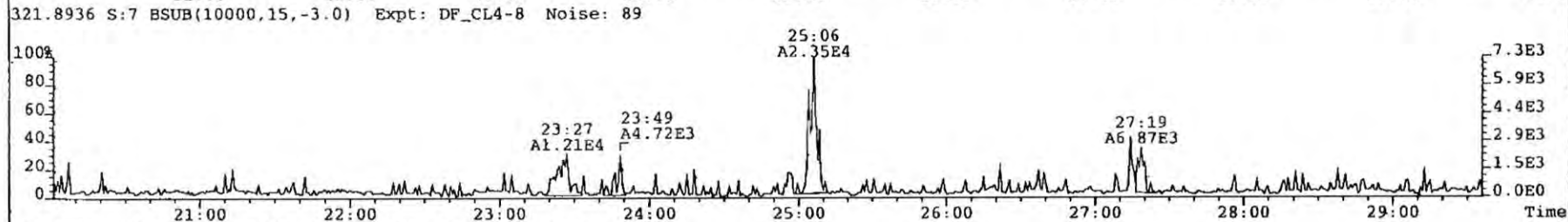
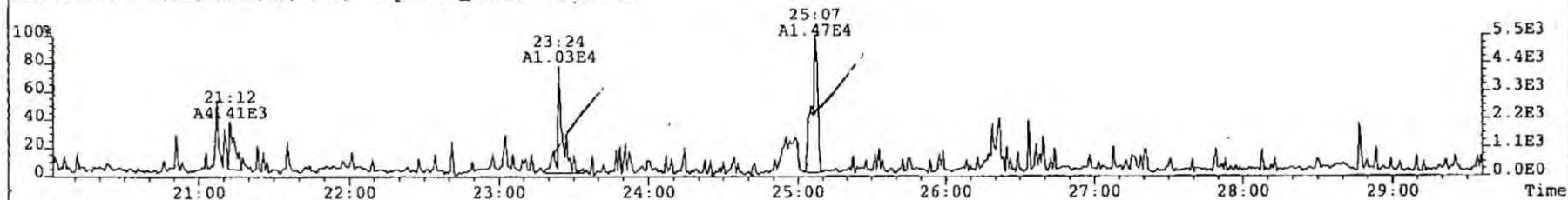
RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name		
39:13	2.891e+04	y	3.579e+04	n	0.81	n	6.470e+04	5.670e+04	1.14e+01	y	0.325	1,2,3,4,6,7,8-HpCDF
39:42	4.405e+04	n	4.783e+04	n	0.92	y	9.188e+04	9.188e+04	1.84e+01	y	0.598	



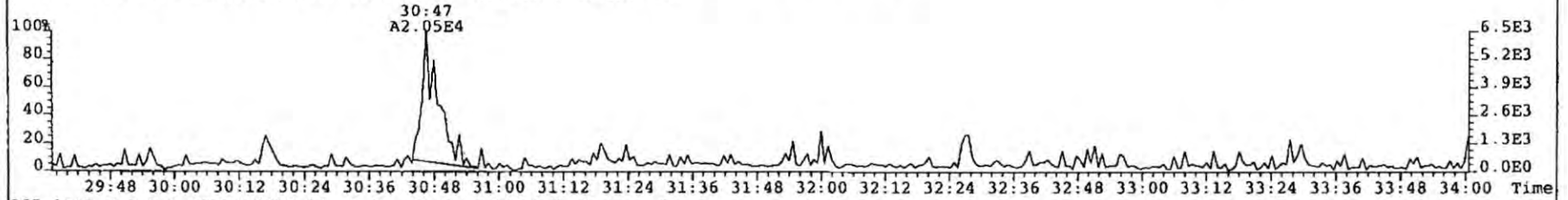
File: 090325P1 Acq: 25-MAR-2009 18:20:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: P1193\_6679\_003 PC-BA-26-SS-A-090316 10.5g Vial# 20 File Text: AP DB5  
316.9824 S:7 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



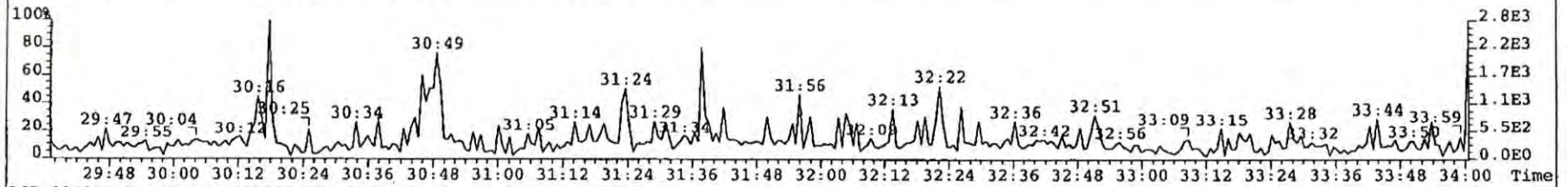
File: 090325P1 Acq: 25-MAR-2009 19:20:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: P1193\_6679\_003 PO-BA-26-SS-A-090316 10.5g Vial# 20 File Text: AP DB5  
319.8965 S:7 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 80



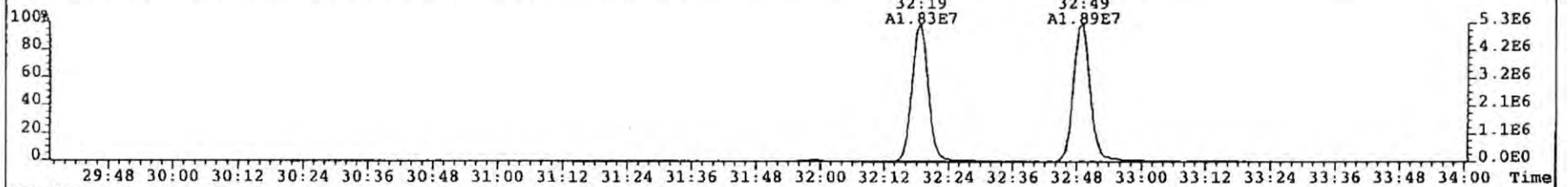
File: 090325P1 Acq: 25-MAR-2009 19:20:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: P1193\_6679\_003 PO-BA-26-SS-A-090316 10.5g Vial# 20 File Text: AP DB5  
355.8546 S:7 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 86



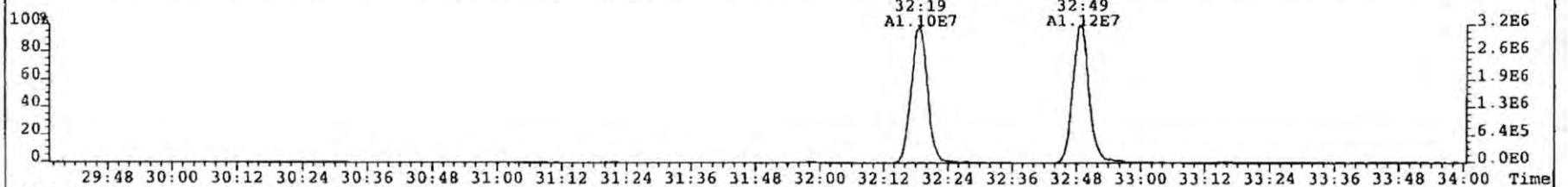
357.8517 S:7 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 85



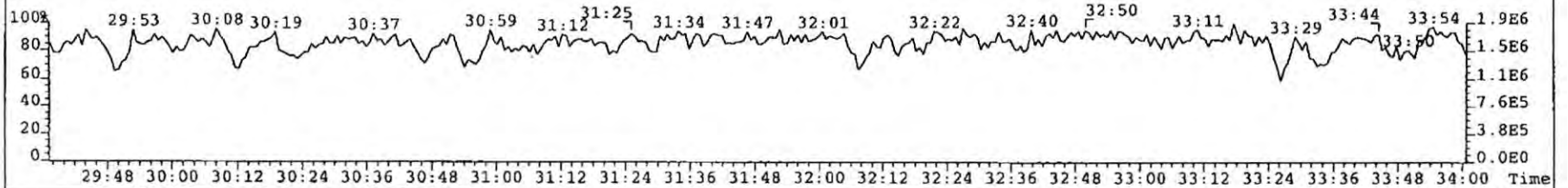
367.8949 S:7 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 98



369.8919 S:7 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 96

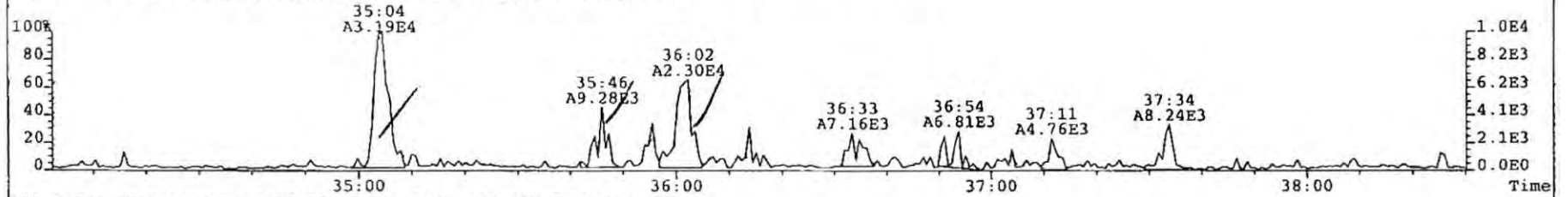


366.9792 S:7 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

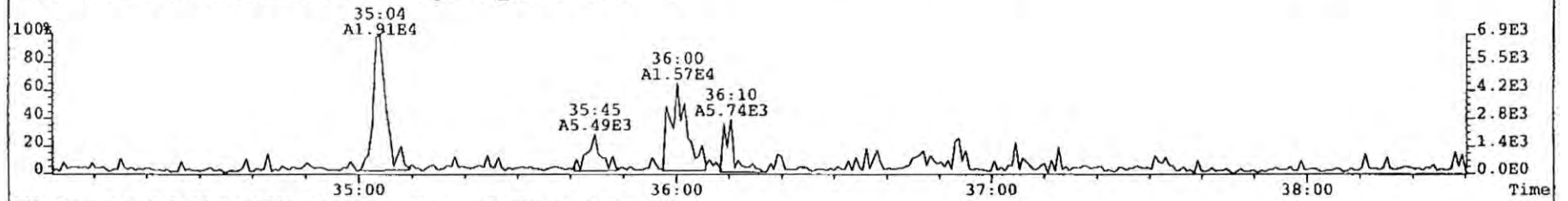




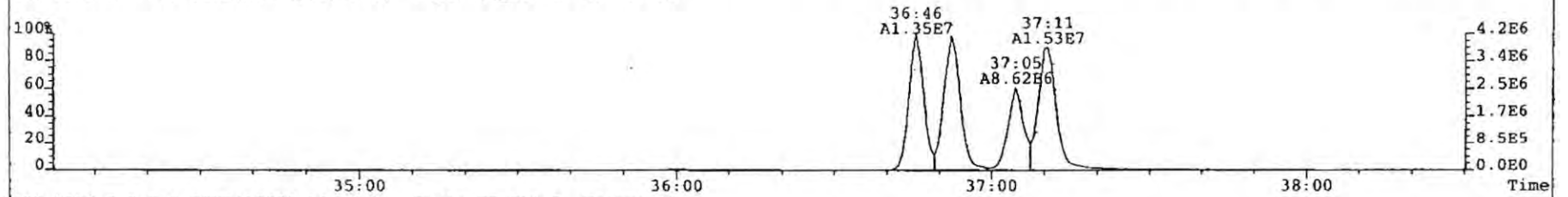
File: 090325P1 Acq: 25-MAR-2009 19:20:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: P1193\_6679\_003 PO-BA-26-SS-A-090316 10.5g Vial# 20 File Text: AP DB5  
389.8156 S:7 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 90



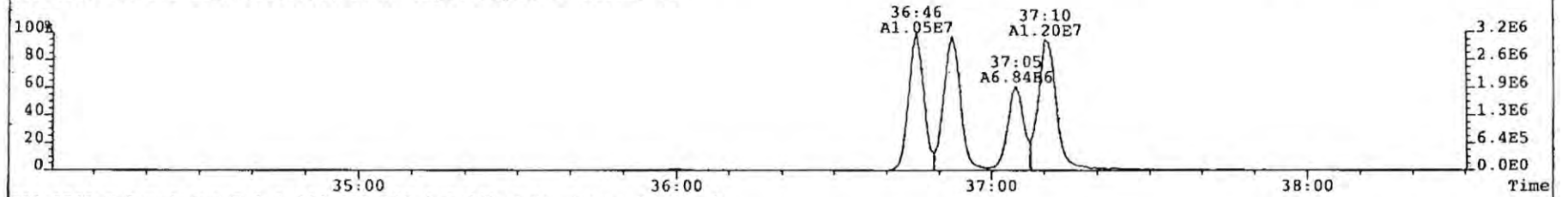
391.8127 S:7 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 82



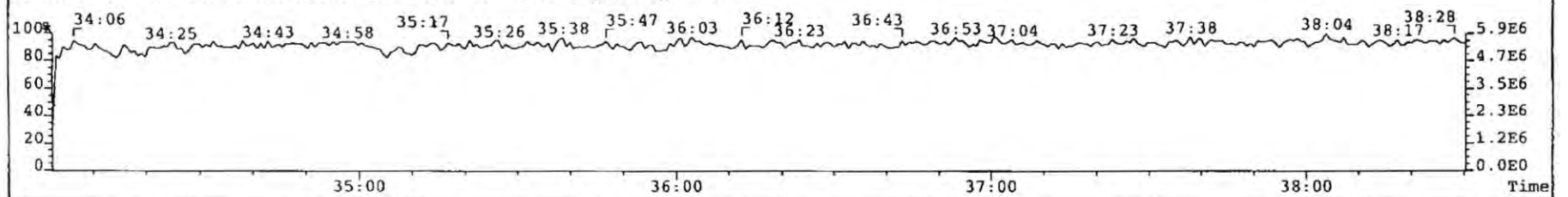
401.8559 S:7 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 93



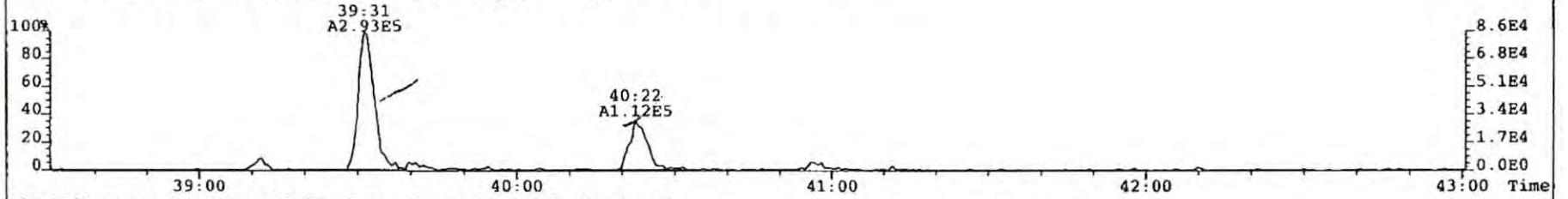
403.8530 S:7 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 95



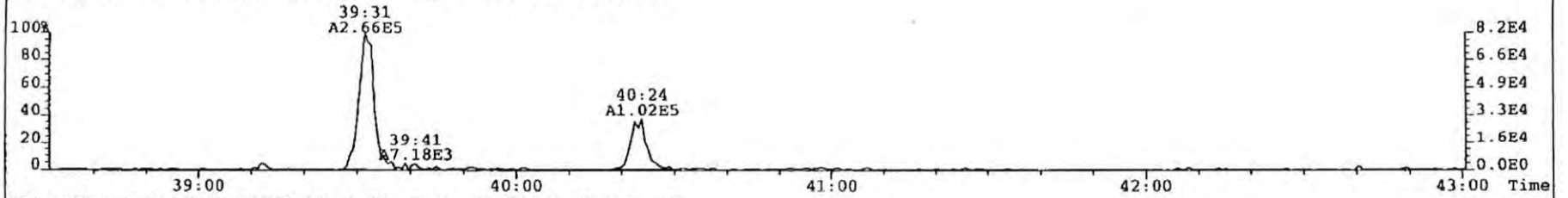
380.9760 S:7 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



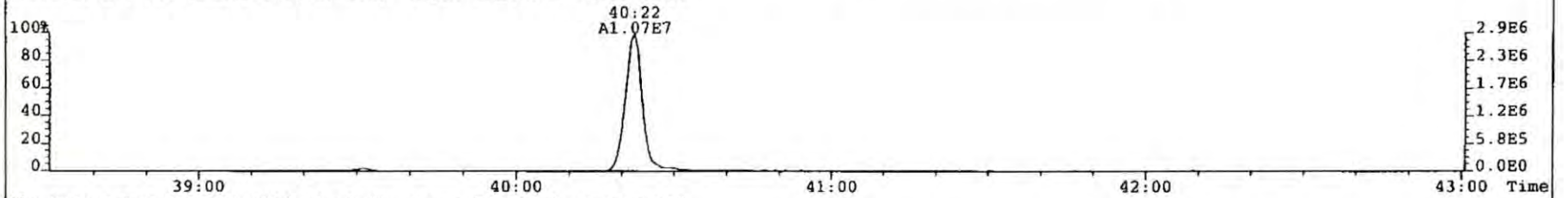
File: 090325P1 Acq: 25-MAR-2009 19:20:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: P1193\_6679\_003 PO-BA-26-SS-A-090316 10.5g Vial# 20 File Text: AP DB5  
423.7767 S:7 F:4 BSub(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 84



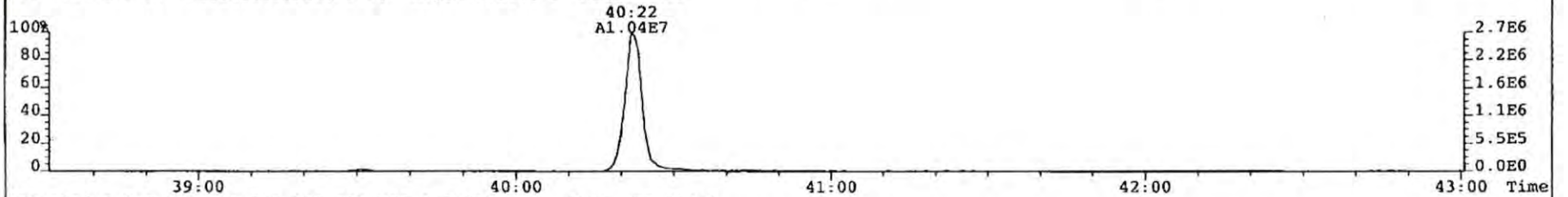
425.7737 S:7 F:4 BSub(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 81



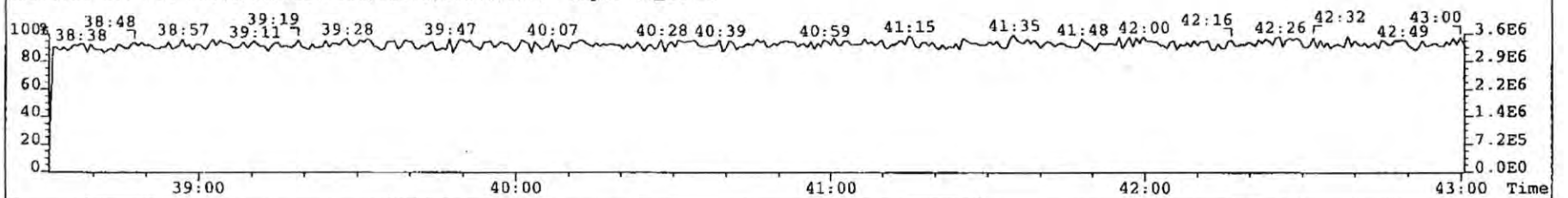
435.8169 S:7 F:4 BSub(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 105



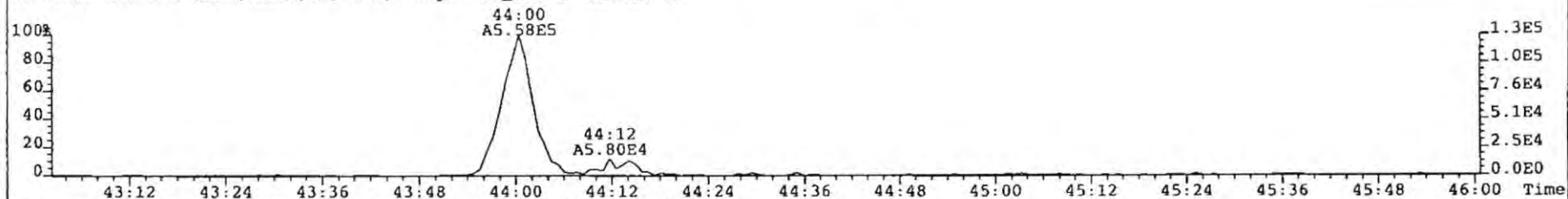
437.8140 S:7 F:4 BSub(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 109



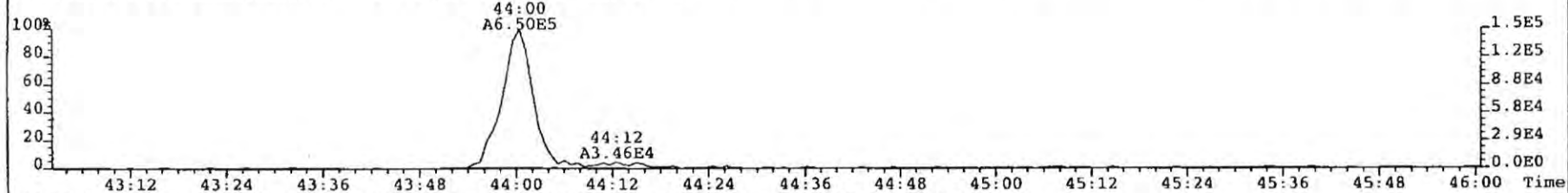
430.9728 S:7 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



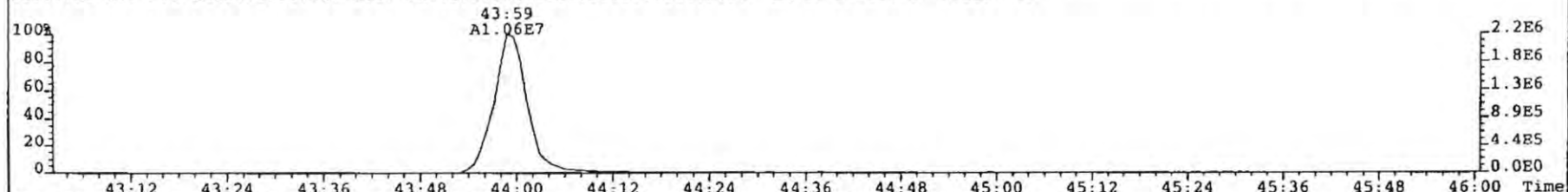
File: 090325P1 Acq: 25-MAR-2009 19:20:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: P1193\_6679\_003 PO-BA-26-SS-A-090316 10.5g Vial# 20 File Text: AP DB5  
457.7377 S:7 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 77



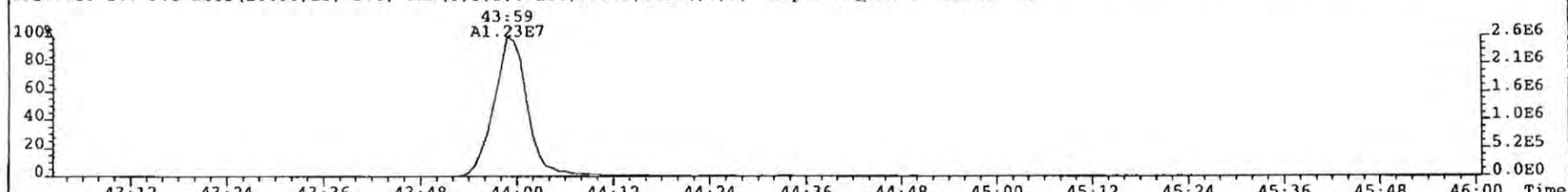
459.7348 S:7 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 73



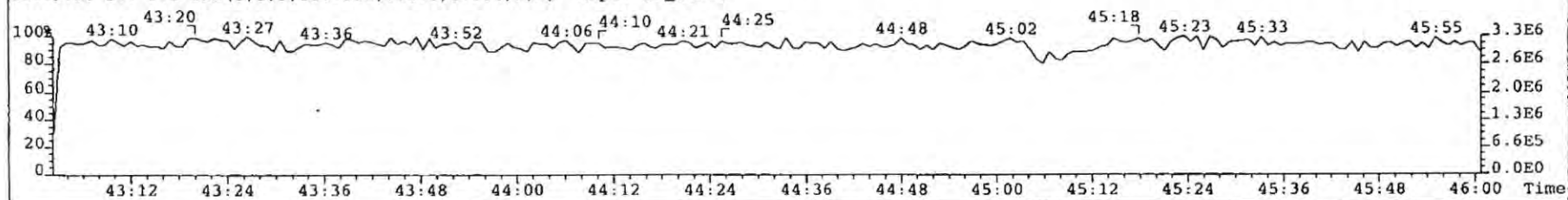
469.7780 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 69



471.7750 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 78

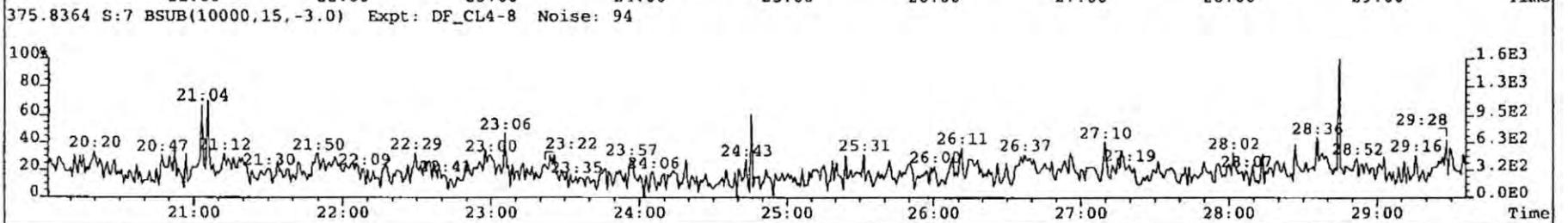
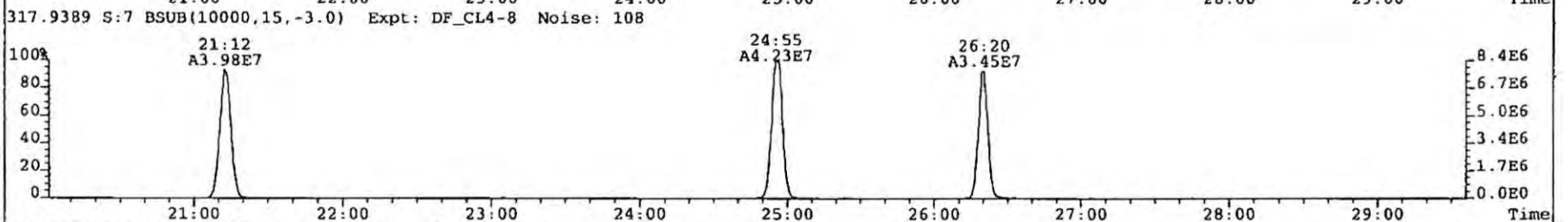
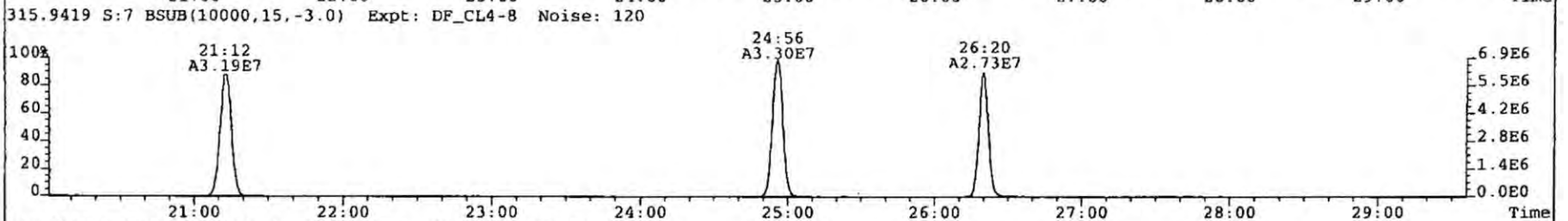
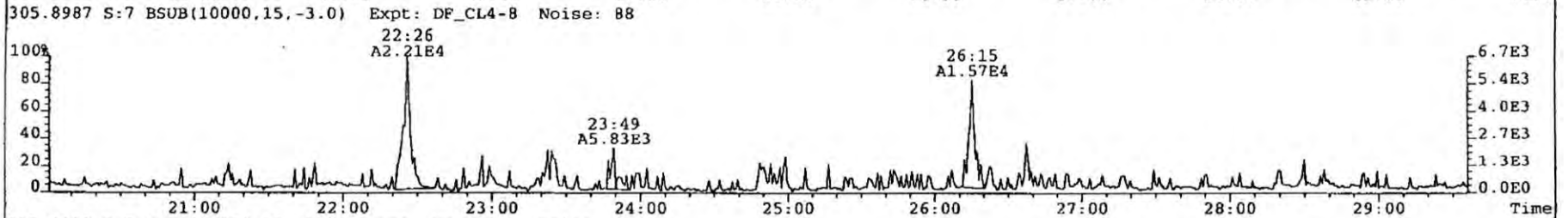
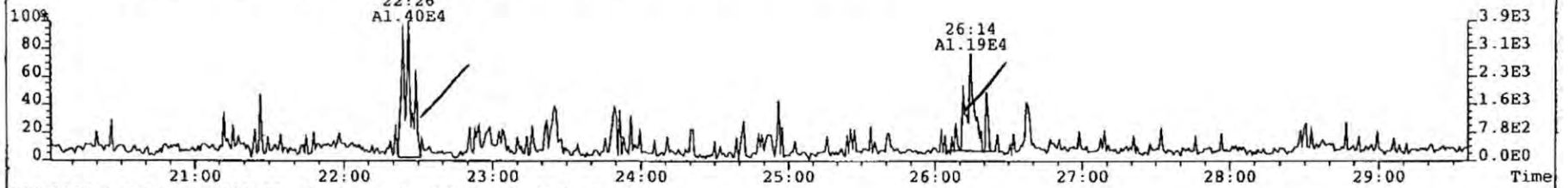


454.9728 S:7 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

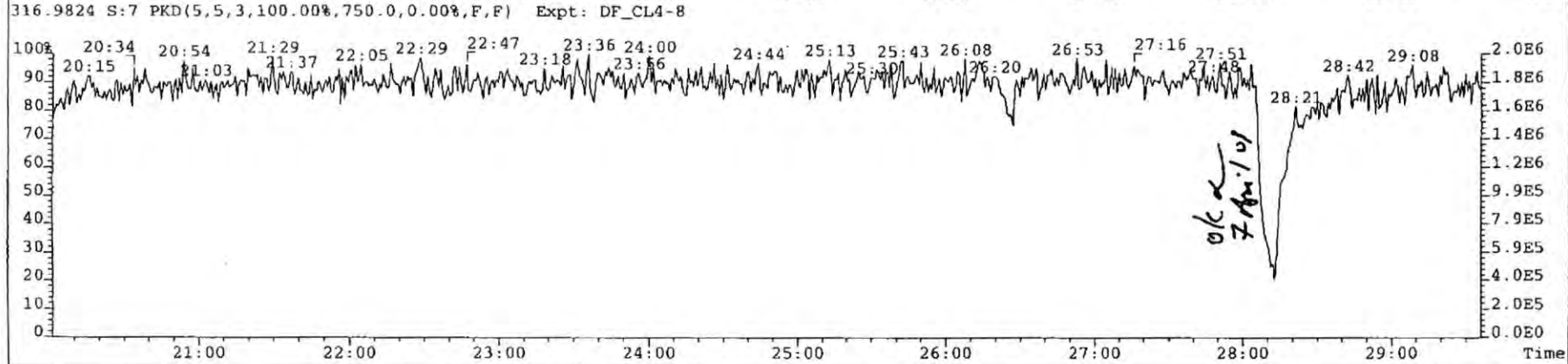
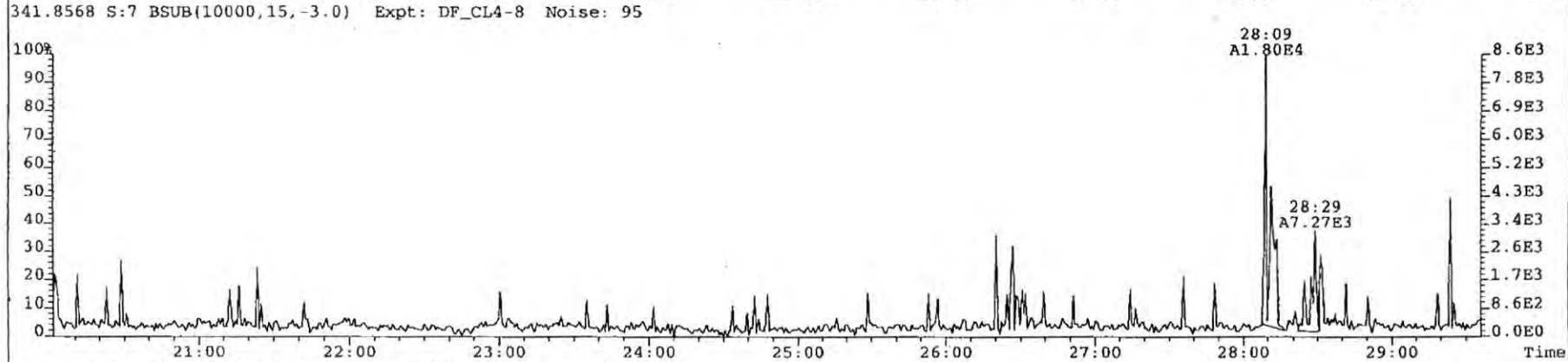
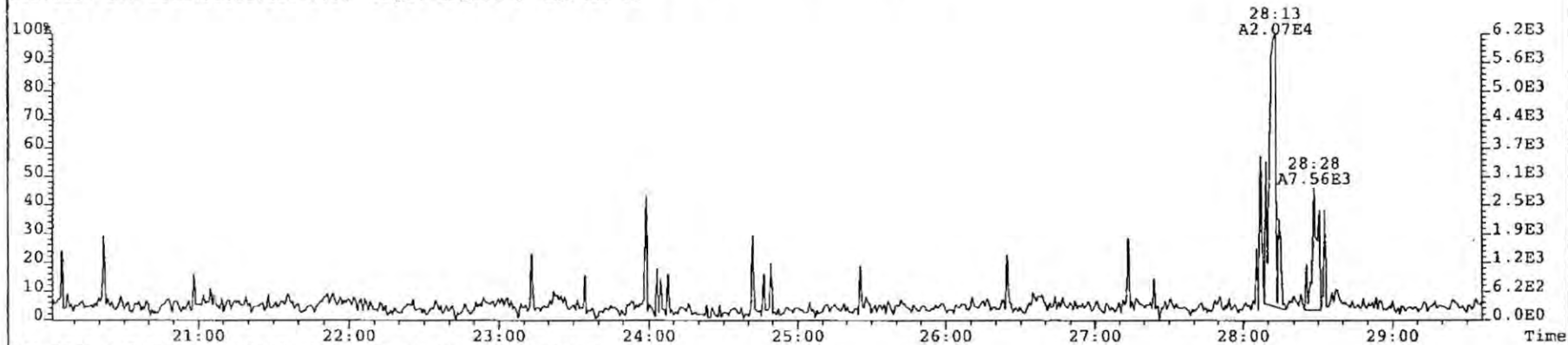




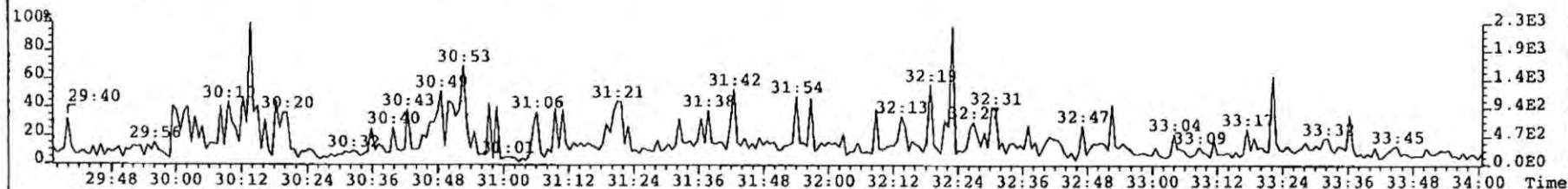
File: 090325P1 Acq: 25-MAR-2009 19:20:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: P1193\_6679\_003 PO-BA-26-SS-A-090316 10.5g Vial# 20 File Text: AP DB5  
303.9016 S:7 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 94



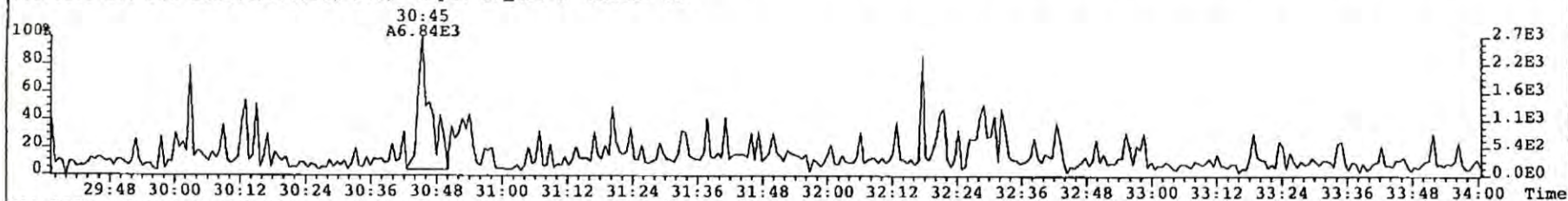
File: 090325P1 Acq: 25-MAR-2009 19:20:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: P1193\_6679\_003 PO-BA-26-SS-A-090316 10.5g Vial# 20 File Text: AP DB5  
339.8597 S:7 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 93



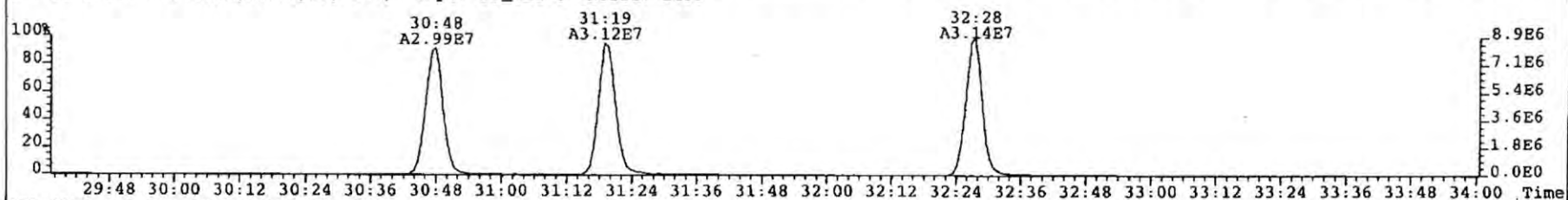
File: 090325P1 Acq: 25-MAR-2009 19:20:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: P1193\_6679\_003 PO-BA-26-SS-A-090316 10.5g Vial# 20 File Text: AP DBS  
339.8597 S:7 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 81



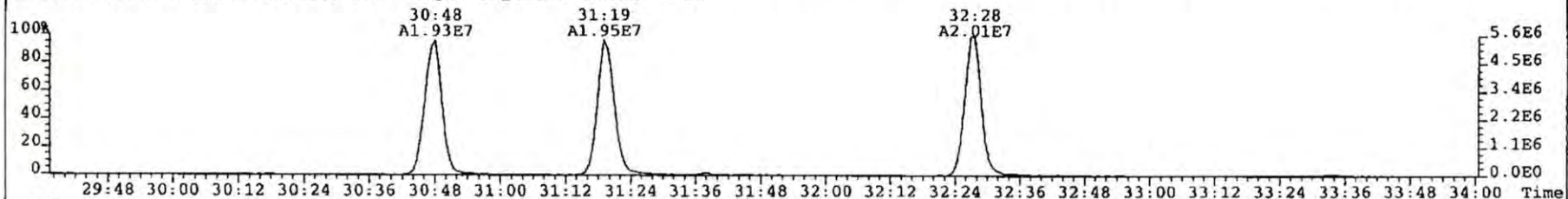
341.8568 S:7 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 83



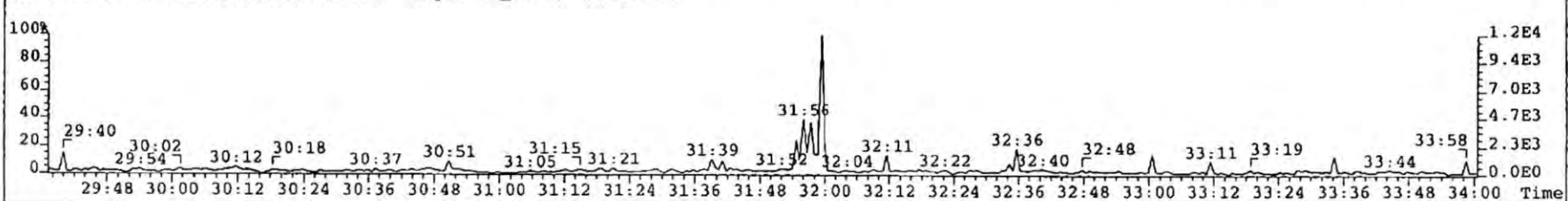
351.9000 S:7 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 2499



353.8970 S:7 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1487

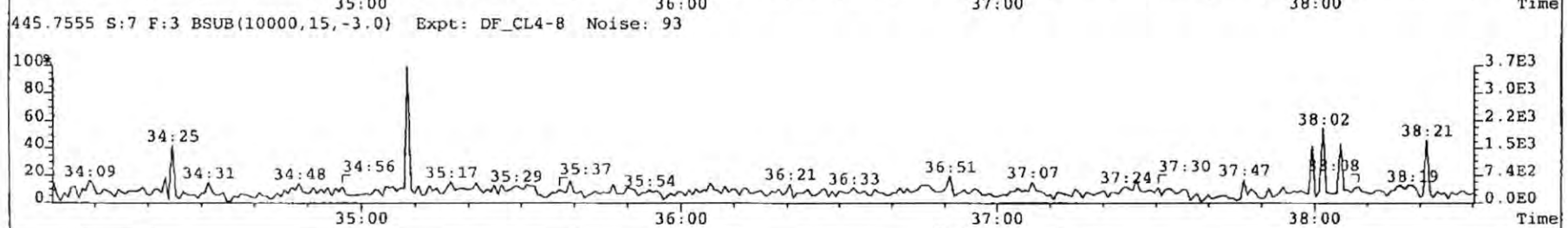
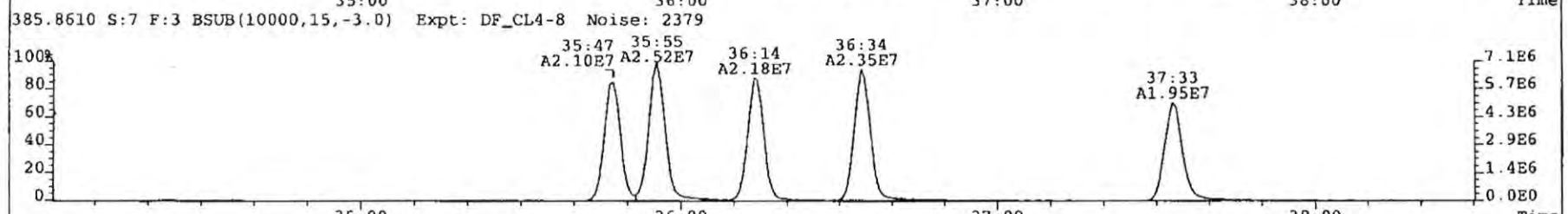
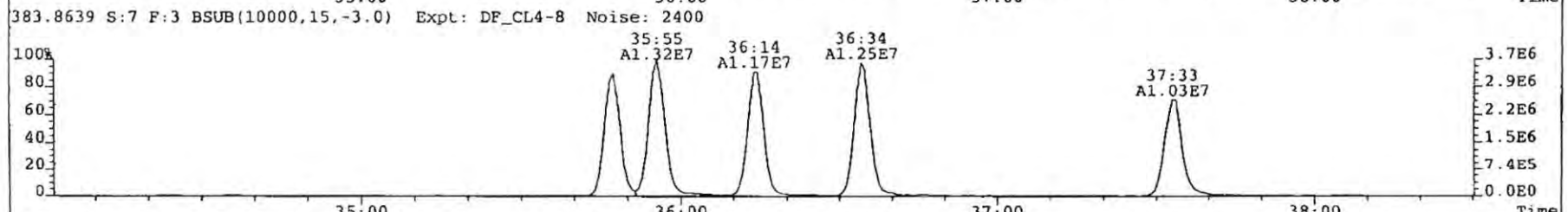
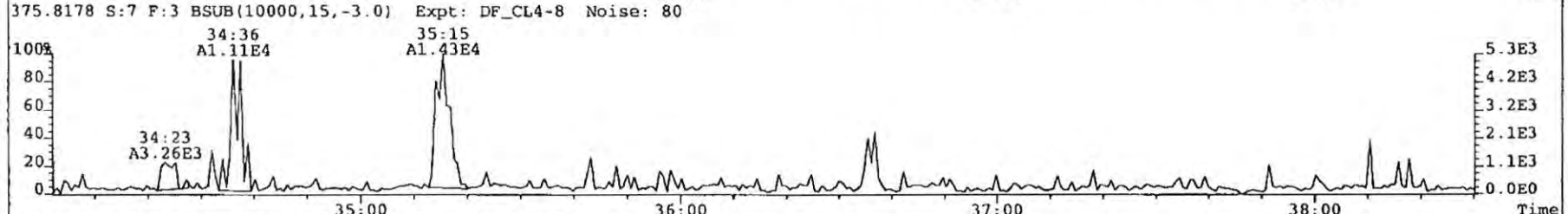
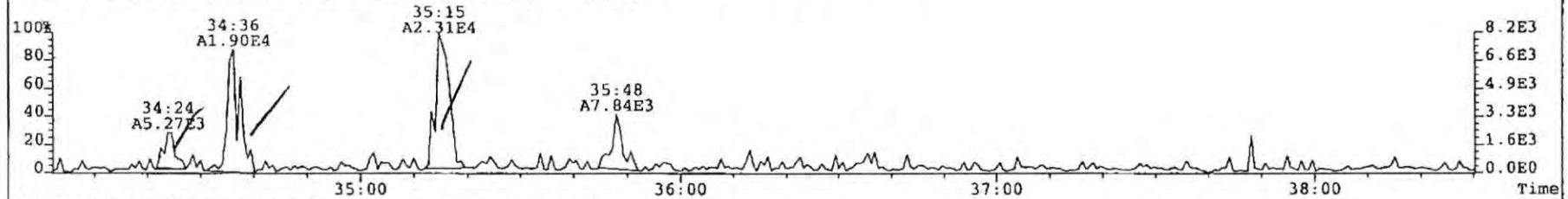


409.7974 S:7 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 93

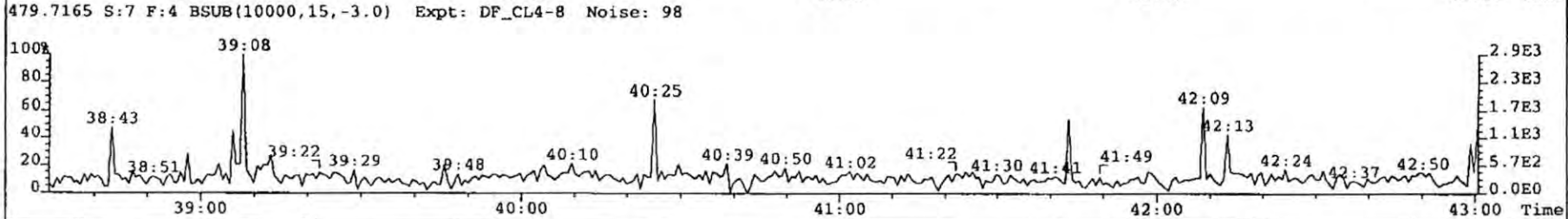
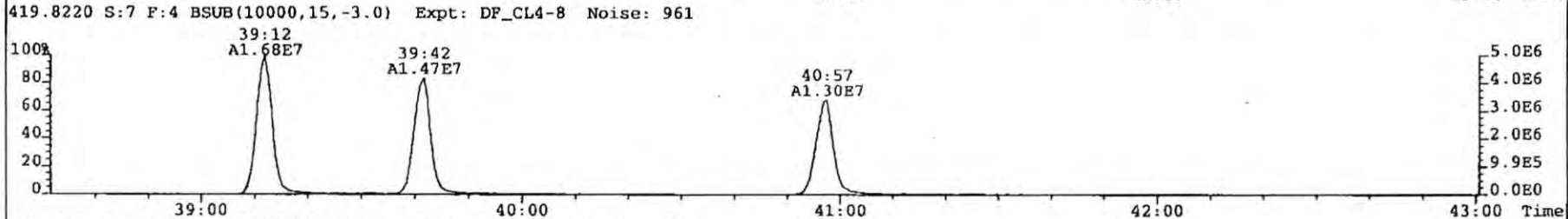
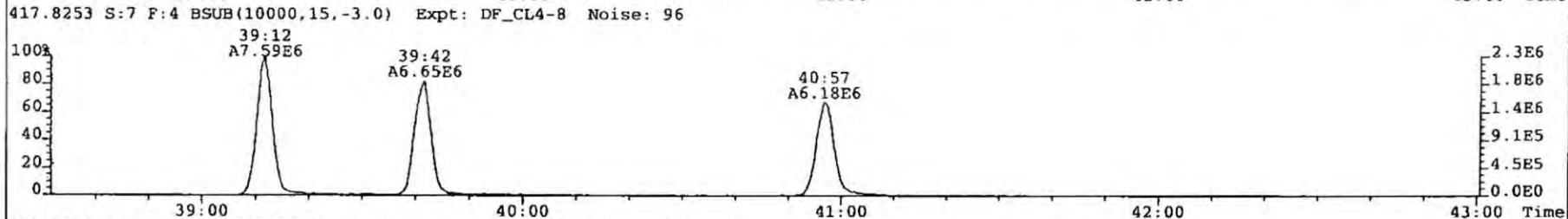
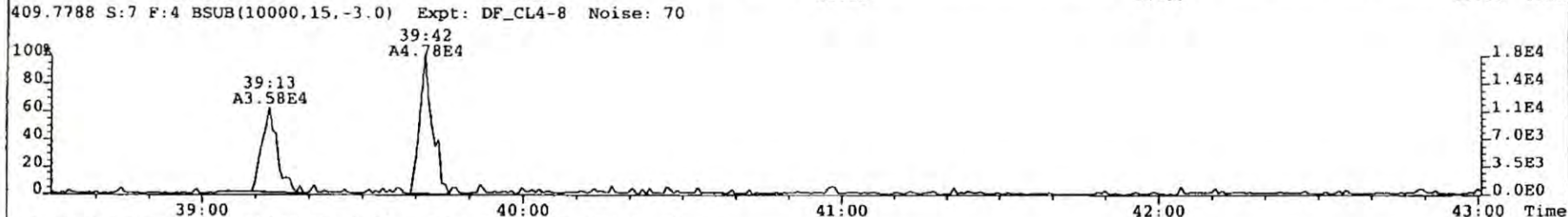
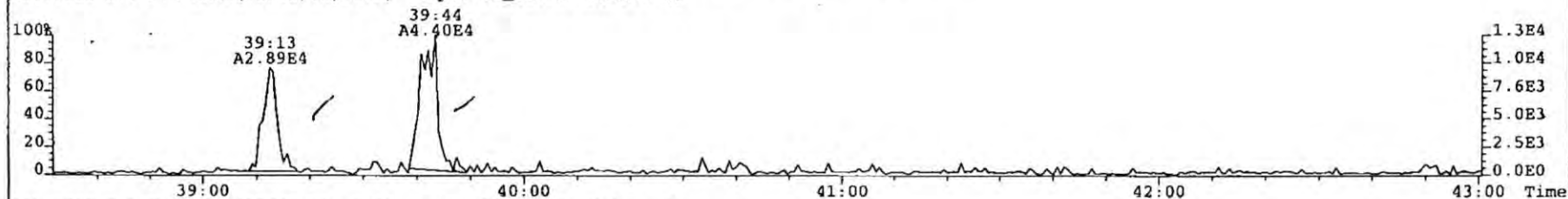




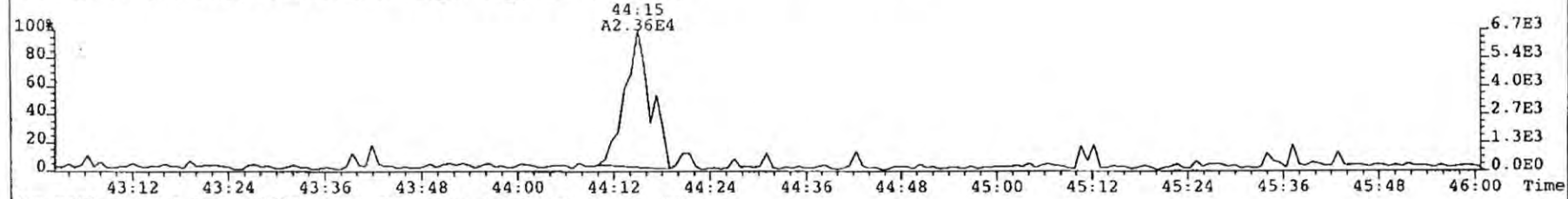
File: 090325P1 Acq: 25-MAR-2009 19:20:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: P1193\_6679\_003 PO-BA-26-SS-A-090316 10.5g Vial# 20 File Text: AP DB5  
373.8207 S:7 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 83



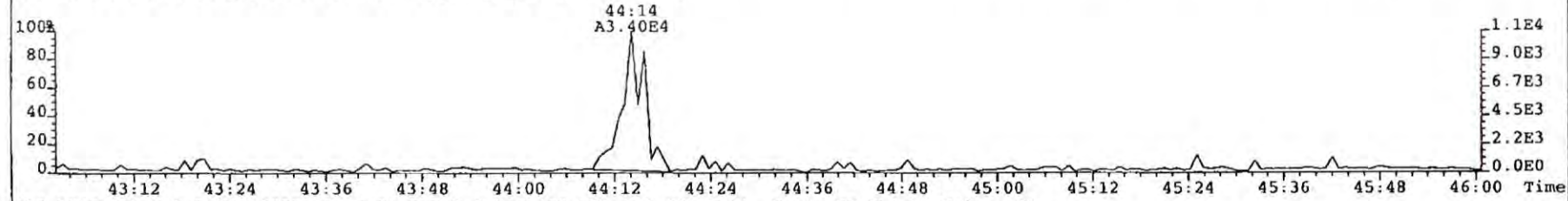
File: 090325P1 Acq: 25-MAR-2009 19:20:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: P1193\_6679\_003 PO-BA-26-SS-A-090316 10.5g Vial# 20 File Text: AP DB5  
407.7818 S:7 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 89



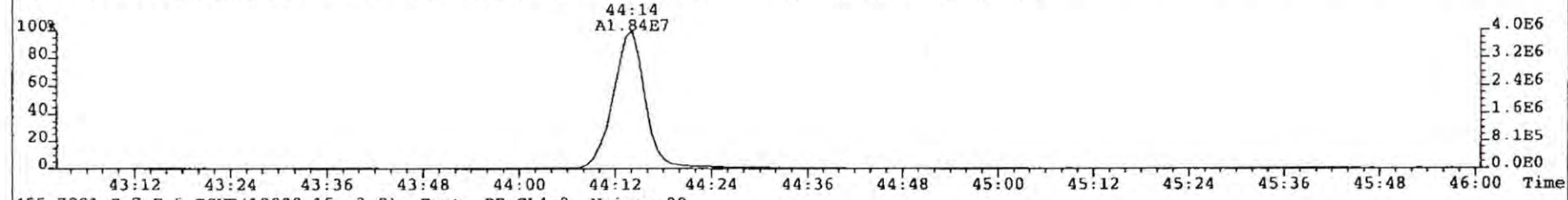
File: 090325P1 Acq: 25-MAR-2009 19:20:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: P1193\_6679\_003 PO-BA-26-SS-A-090316 10.5g Vial# 20 File Text: AP DB5  
441.7428 S:7 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 69



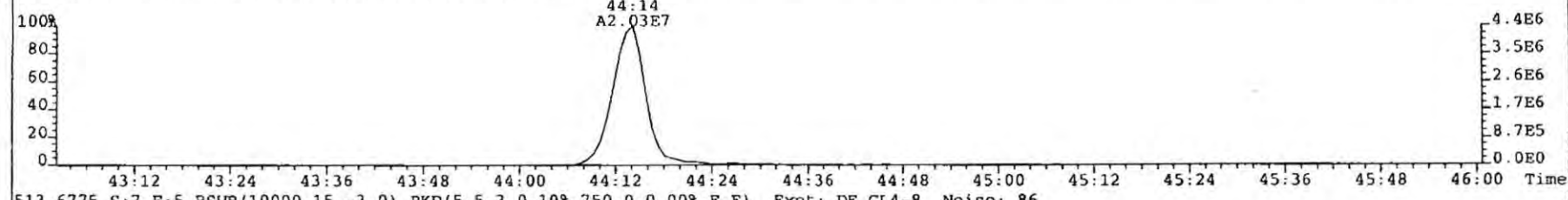
443.7398 S:7 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 78



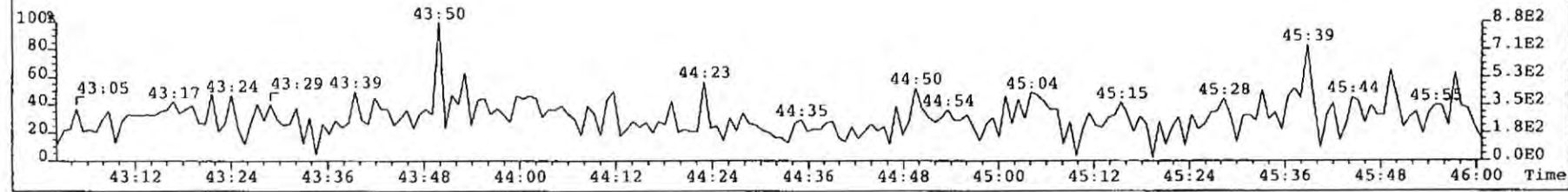
453.7830 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 84



455.7801 S:7 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 99



513.6775 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 86





1613/8290 Sample Summary

Analytical Perspectives

[Form: DF]

Client ID: PO-BA-27B-SS-A-090313
Lab ID: P1193\_6679\_004
Sample text: P1193\_6679\_004 PO-BA-27B-SS-A-090313 10.37g

Filename: 090325P1
S: 8 Vial: 21 Acq: 25-MAR-08 20:11:01
Cal: MM1\_DF\_07012007A\_25DEC08wt/Vol: 10.37
Stds: JS (split adj.): 2000 CS/SS: 800 ES: 2000

Table with columns: Typ, Name, Resp, RA, RT, RRF, Conc., Noise, Fac, DL, Rec. Rows include various chemical compounds like TCDD, PeCDD, HxCDD, HxCDF, HpCDD, OCDD, OCDF, and their respective measurements.

Handwritten signatures and dates: Analyst: [Signature], Date: [Signature], 7 April 09

SS	37C1-2,3,7,8-TCDD	1.70e+07		27:17	1.00	80.5		0.0912	104
SS	13C-1,2,3,4,7-PeCDD	2.48e+07	1.66 y	32:19	0.93	157	4282 2.5	0.613	81.6
SS	13C-1,2,3,4,6-PeCDF	4.57e+07	1.55 y	30:48	0.94	193	12293 2.5	1.17	100
SS	13C-1,2,3,4,6,9-HxCDF	3.73e+07	0.53 y	36:14	0.80	247	15778 2.5	1.45	128
SS	13C-1,2,3,4,6,8,9-HpCDF	2.27e+07	0.46 y	39:42	0.79	213	9094 2.5	0.997	110
SBS	2,4,6,8-TCDF	*	* n	NotF»	1.05	*	889 2.5	0.0479	-
Ay	1,3,6,8-TCDD	1.72e+04	0.63 n	23:25	1.08	0.0752	1105 2.5	0.0939	-
Ay	1,2,3,9-TCDD	*	* n	NotF»	1.08	*	1105 2.5	0.0939	-
Ay	1,2,8,9-TCDD	*	* n	NotF»	1.08	*	1105 2.5	0.0939	-
Ay	1,2,4,7,9-PeCDD	*	* n	NotF»	1.00	*	446 2.5	0.0594	-
Ay	1,2,3,8,9-PeCDD	*	* n	NotF»	1.00	*	446 2.5	0.0594	-
Ay	1,2,4,6,7,9-HxCDD	4.80e+04	1.07 y	35:05	1.00	0.324	1593 2.5	0.225	-
Ay	1,2,3,4,6,7,9-HpCDD	4.59e+05	1.07 y	39:31	0.97	4.01	5040 2.5	0.821	-
Ay	1,3,6,8-TCDF	*	* n	NotF»	1.05	*	889 2.5	0.0479	-
Ay	2,3,4,8-TCDF	*	* n	NotF»	1.05	*	889 2.5	0.0479	-
Ay	1,2,8,9-TCDF	*	* n	NotF»	1.05	*	889 2.5	0.0479	-
Ay	1,3,4,6,8-PeCDF	2.23e+04	2.00 n	28:28	1.05	0.0627	875 2.5	0.0471	-
Ay	1,2,3,8,9-PeCDF	*	* n	NotF»	1.00	*	992 2.5	0.0852	-
Ay	1,2,3,4,6,8-HxCDF	1.56e+04	0.92 n	34:24	1.15	0.0732	839 2.5	0.0554	-
Tot	Total Tetra-Dioxins	*	* n	NotF»	1.08	*	1105 2.5	0.0939	-
Tot	Total Penta-Dioxins	*	* n	NotF»	1.00	*	446 2.5	0.0594	-
Tot	Total Hexa-Dioxins	4.80e+04	1.07 y	35:05	1.00	0.324	1593 2.5	0.225	-
Tot	Total Hepta-Dioxins	7.75e+05	1.07 y	39:31	0.97	6.78	5040 2.5	0.821	-
Tot	Total Tetra-Furans	*	* n	NotF»	1.05	*	889 2.5	0.0479	-
Tot	Total Penta-Furans	*	* n	NotF»	1.00	*	992 2.5	0.0852	-
Tot	Total Hexa-Furans	8.46e+04	1.19 y	35:16	1.15	0.396	839 2.5	0.0554	-
Tot	Total Hepta-Furans	3.39e+05	1.08 y	39:12	1.35	2.00	1011 2.5	0.0815	-
Tot	TCDD EMPC	2.51e+04	0.63 n	23:25	1.08	0.110	1105 2.5	0.0939	-
Tot	PeCDD EMPC	*	* n	NotF»	1.00	*	446 2.5	0.0594	-
Tot	HxCDD EMPC	1.18e+05	1.07 y	35:05	1.00	0.802	1593 2.5	0.225	-
Tot	HpCDD EMPC	7.75e+05	1.07 y	39:31	0.97	6.78	5040 2.5	0.821	-
Tot	TCDF EMPC	*	* n	NotF»	1.05	*	889 2.5	0.0479	-
Tot	PeCDF EMPC	*	* n	NotF»	1.00	*	992 2.5	0.0852	-
Tot	HxCDF EMPC	1.62e+05	0.92 n	34:24	1.15	0.758	839 2.5	0.0554	-
Tot	HpCDF EMPC	3.39e+05	1.08 y	39:12	1.35	2.00	1011 2.5	0.0815	-
AS	13C-1,3,6,8-TCDD	4.21e+07	0.83 y	23:24	1.09	145	1777 2.5	0.118	75.1
AS	13C-1,3,6,8-TCDF	7.58e+07	0.77 y	21:14	1.09	182	2919 2.5	0.151	94.3
DPE	HxCDFE	*		NotF»	-	*	-	-	-
DPE	HpCDFE	*		NotF»	-	*	-	-	-
DPE	OCDFE	*		NotF»	-	*	-	-	-
DPE	NCDPE	*		NotF»	-	*	-	-	-
DPE	DCDFE	*		NotF»	-	*	-	-	-
LMC	Fn1 check mass	*		NotF»	-	*	-	-	-
LMC	Fn2 check mass	*		NotF»	-	*	-	-	-
LMC	Fn3 check mass	*		NotF»	-	*	-	-	-
LMC	Fn4 check mass	*		NotF»	-	*	-	-	-
LMC	Fn5 check mass	*		NotF»	-	*	-	-	-

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Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDD EMPC Function: 1 Run #: 15 Checkcode: 2383  
 File Name: 090325P1 Sample #: 8 Sample text: P1193\_6679\_004 PO-BA-27B-SS-A-090313 10»  
 Acquired: 25-MAR-09 20:11:01 Processed: 26-MAR-09 08:40:42  
 Total Conc.: 0.10987 Unnamed Conc.: 0.035 Homolog count: 2

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
23:25	7.470e+03	n	1.181e+04	n	0.63	n	1.928e+04	1.717e+04	4.77e+00	y	0.0752 1,3,6,8-TCDD
25:07	9.468e+03	n	4.475e+03	n	2.12	n	1.394e+04	7.920e+03	1.96e+00	n	0.0347

Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDD EMPC Function: 2 Run #: 15 Checkcode: 2383  
 File Name: 090325P1 Sample #: 8 Sample text: P1193\_6679\_004 PO-BA-27B-SS-A-090313 10»  
 Acquired: 25-MAR-09 20:11:01 Processed: 26-MAR-09 08:40:42  
 Total Conc.: \* Unnamed Conc.: \* Homolog count: 0

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
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NotF> \* n \* y \* n \* \* \* n \*  
 Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDD EMPC Function: 3 Run #: 15 Checkcode: 2383  
 File Name: 090325P1 Sample #: 8 Sample text: P1193\_6679\_004 PO-BA-27B-SS-A-090313 10»  
 Acquired: 25-MAR-09 20:11:01 Processed: 26-MAR-09 08:40:42  
 Total Conc.: 0.80190 Unnamed Conc.: 0.394 Homolog count: 4

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
35:05	2.479e+04	n	2.317e+04	n	1.07	y	4.796e+04	4.796e+04	4.72e+00	y	0.324 1,2,4,6,7,9-HxCDD
35:46	1.290e+04	y	8.917e+03	y	1.45	n	2.181e+04	1.997e+04	2.20e+00	n	0.135
36:01	2.905e+04	y	1.714e+04	y	1.69	n	4.619e+04	3.840e+04	3.60e+00	y	0.259
36:53	6.658e+03	y	1.152e+04	n	0.58	n	1.818e+04	1.203e+04	2.02e+00	n	0.0842 1,2,3,6,7,8-HxCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HpCDD EMPC Function: 4 Run #: 15 Checkcode: 2383  
 File Name: 090325P1 Sample #: 8 Sample text: P1193\_6679\_004 PO-BA-27B-SS-A-090313 10»  
 Acquired: 25-MAR-09 20:11:01 Processed: 26-MAR-09 08:40:42  
 Total Conc.: 6.7834 Unnamed Conc.: \* Homolog count: 2

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
39:31	2.372e+05	n	2.216e+05	n	1.07	y	4.588e+05	4.588e+05	1.24e+01	y	4.01 1,2,3,4,6,7,9-HpCDD
40:23	1.573e+05	n	1.590e+05	n	0.99	y	3.164e+05	3.164e+05	8.16e+00	y	2.77 1,2,3,4,6,7,8-HpCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDF EMPC Function: 1 Run #: 15 Checkcode: 2383



File Name: 090325P1 Sample #: 8 Sample text: P1193\_6679\_004 PO-BA-27B-SS-A-090313 10»

Acquired: 25-MAR-09 20:11:01 Processed: 26-MAR-09 08:40:42

Total Conc.: \* Unnamed Conc.: \* Homolog count: 0

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
NotF»	* n		* n		* n	*	*	*	n	*
Totals Results					Analytical Perspectives					[Form: TOT]

Totals class: PeCDF EMPC Function: 2 Run #: 15 Checkcode: 2383  
 File Name: 090325P1 Sample #: 8 Sample text: P1193\_6679\_004 PO-BA-27B-SS-A-090313 10»

Acquired: 25-MAR-09 20:11:01 Processed: 26-MAR-09 08:40:42

Total Conc.: \* Unnamed Conc.: \* Homolog count: 0

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
NotF»	* n		* n		* n	*	*	*	n	*
Totals Results					Analytical Perspectives					[Form: TOT]

Totals class: HxCDF EMPC Function: 3 Run #: 15 Checkcode: 2383  
 File Name: 090325P1 Sample #: 8 Sample text: P1193\_6679\_004 PO-BA-27B-SS-A-090313 10»

Acquired: 25-MAR-09 20:11:01 Processed: 26-MAR-09 08:40:42

Total Conc.: 0.75773 Unnamed Conc.: 0.650 Homolog count: 4 /

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
34:24	8.661e+03	y	9.413e+03	y	0.92 n	1.807e+04	1.565e+04	3.53e+00	y	0.0732 1,2,3,4,6,8-HxCDF
34:37	3.004e+04	n	3.007e+04	n	1.00 n	6.011e+04	5.426e+04	1.27e+01	y	0.254
35:16	4.594e+04	n	3.865e+04	y	1.19 y	8.460e+04	8.460e+04	1.33e+01	y	0.396
35:49	8.052e+03	y	3.410e+03	y	2.36 n	1.146e+04	7.639e+03	1.59e+00	n	0.0345 1,2,3,4,7,8-HxCDF
Totals Results					Analytical Perspectives					[Form: TOT]

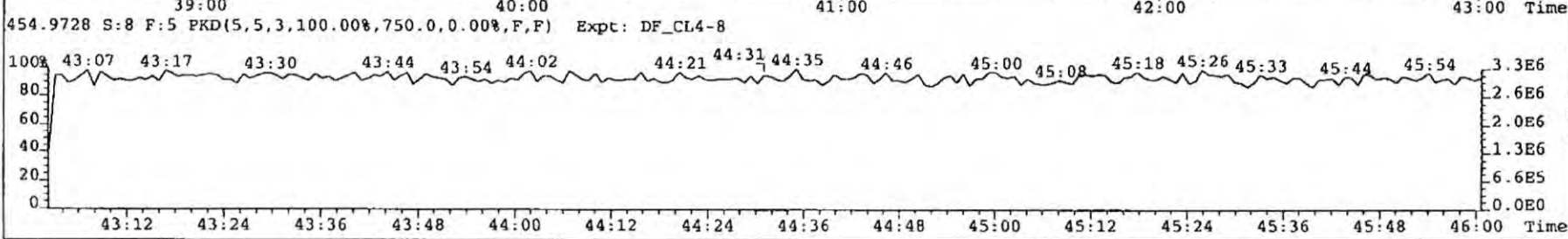
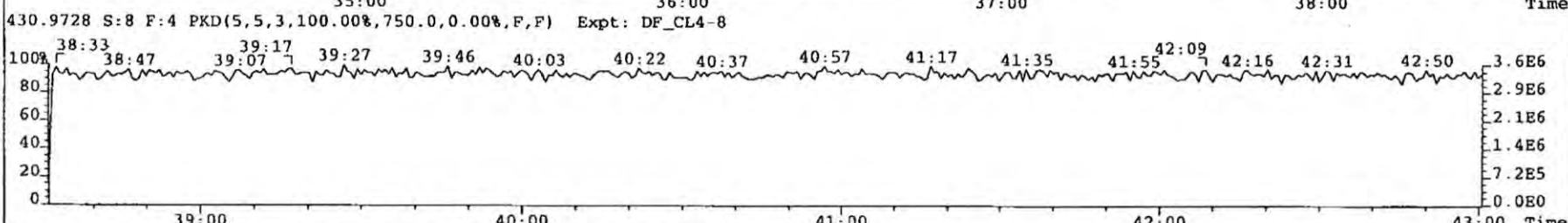
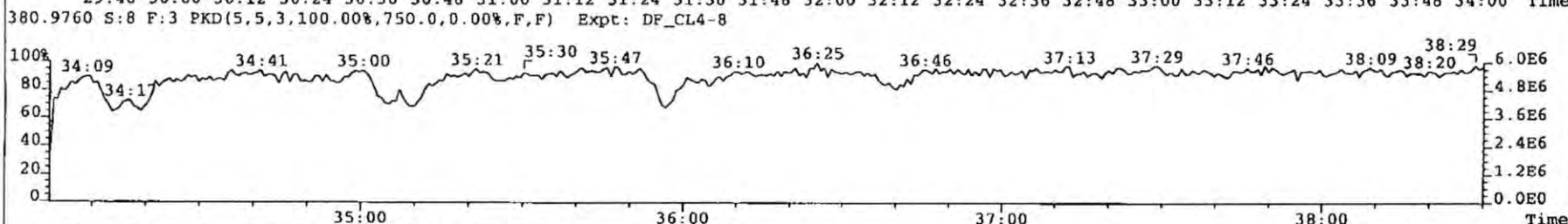
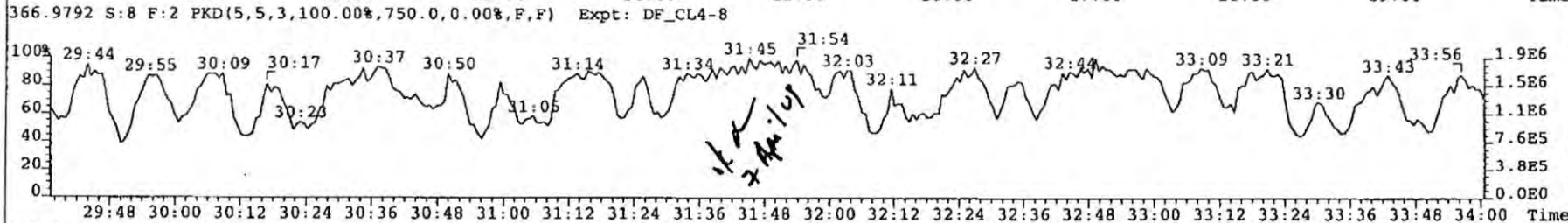
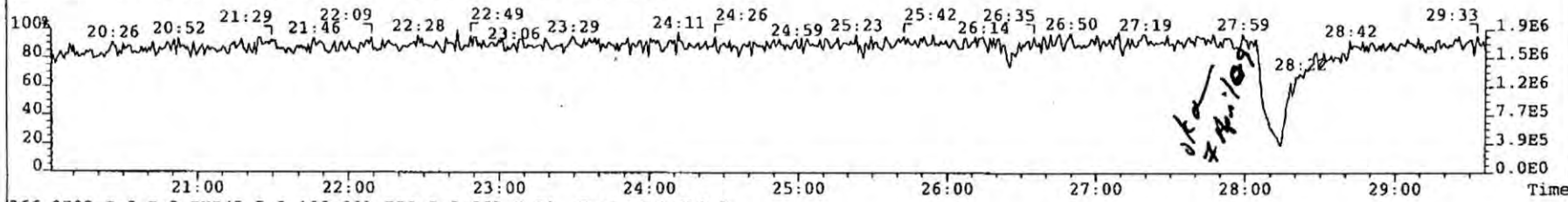
Totals class: HpCDF EMPC Function: 4 Run #: 15 Checkcode: 2383  
 File Name: 090325P1 Sample #: 8 Sample text: P1193\_6679\_004 PO-BA-27B-SS-A-090313 10»

Acquired: 25-MAR-09 20:11:01 Processed: 26-MAR-09 08:40:42

Total Conc.: 2.0043 Unnamed Conc.: 1.354 Homolog count: 2 /

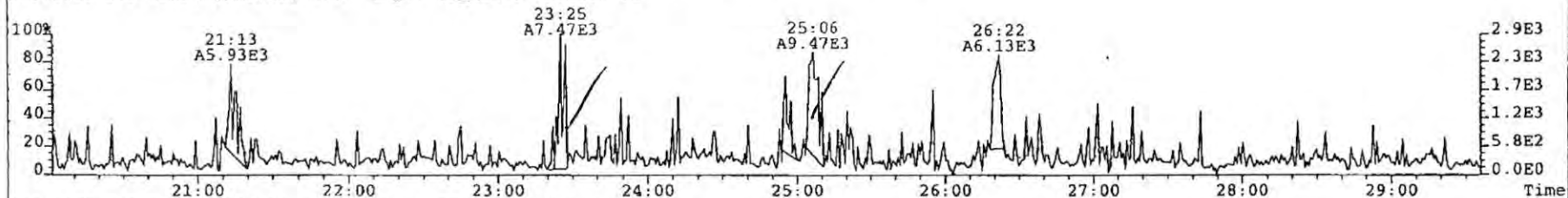
RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
39:12	6.227e+04	n	5.741e+04	n	1.08 y	1.197e+05	1.197e+05	1.79e+01	y	0.651 1,2,3,4,6,7,8-HpCDF
39:42	1.044e+05	n	1.152e+05	n	0.91 y	2.195e+05	2.195e+05	3.11e+01	y	1.35

File: 090325P1 Acq: 25-MAR-2009 20:11:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 8 Text: P1193\_6679\_004 PO-BA-2008-SS-A-090313 10.37g Vial# 21 File Text: AP DB5  
316.9824 S:8 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

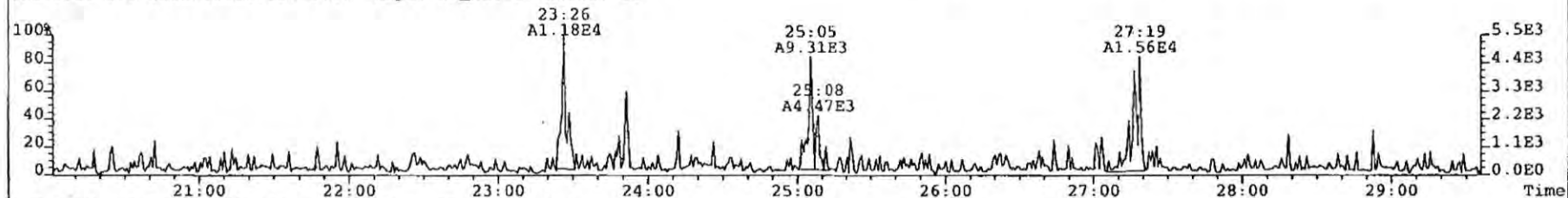




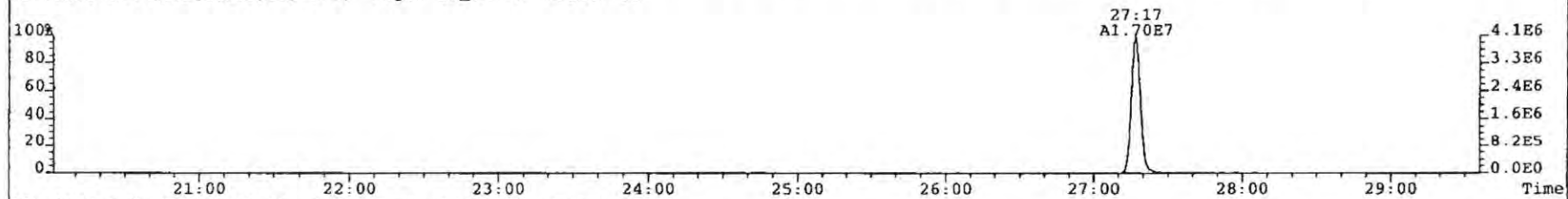
File: 090325P1 Acq: 25-MAR-2009 20:11:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 8 Text: P1193\_6679\_004 PO-BA-27B-SS-A-090313 10.37g Vial# 21 File Text: AP DB5  
319.8965 S:8 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 85



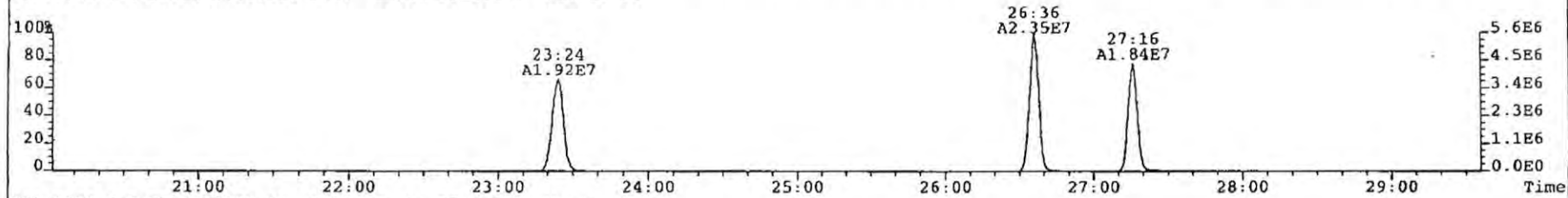
321.8936 S:8 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 80



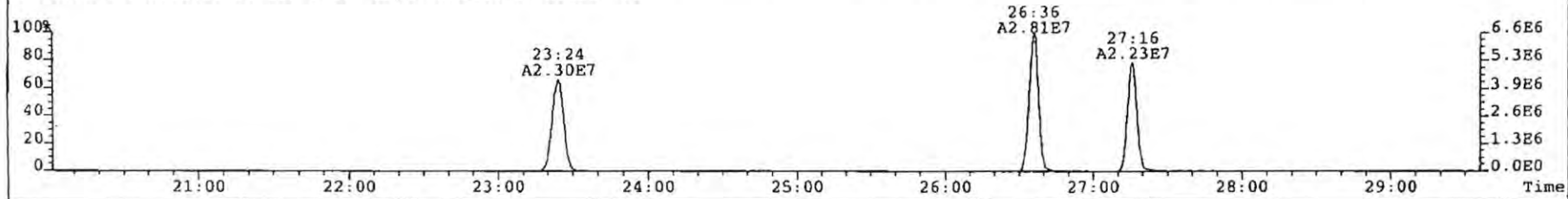
327.8850 S:8 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 93



331.9368 S:8 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 93

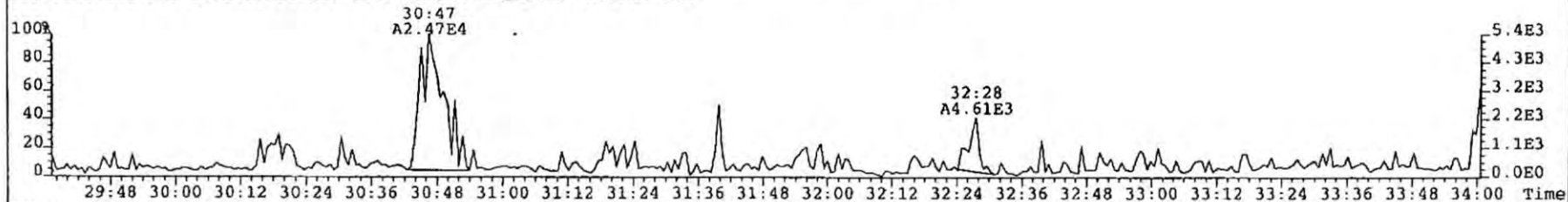


333.9339 S:8 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 98

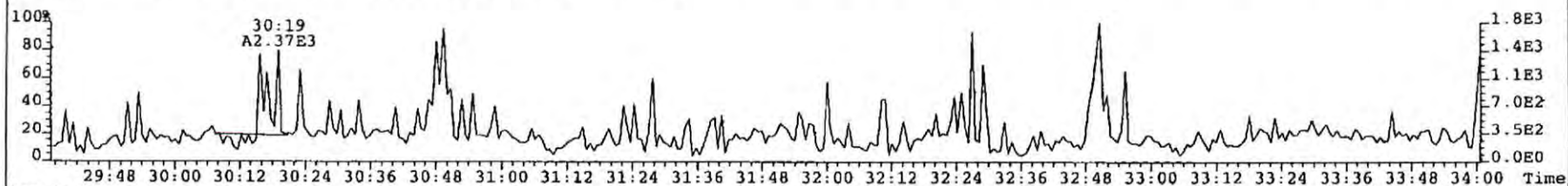




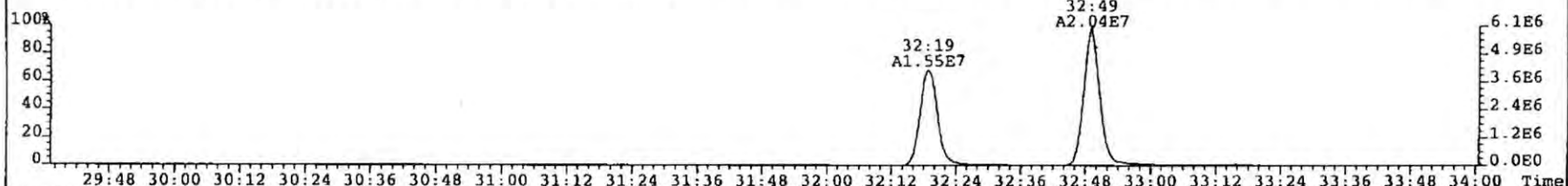
File: 090325PI Acq: 25-MAR-2009 20:11:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 8 Text: P1193\_6679\_004 PO-BA-27B-SS-A-090313 10.37g Vial# 21 File Text: AP DB5  
355.8546 S:8 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 104



357.8517 S:8 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 94



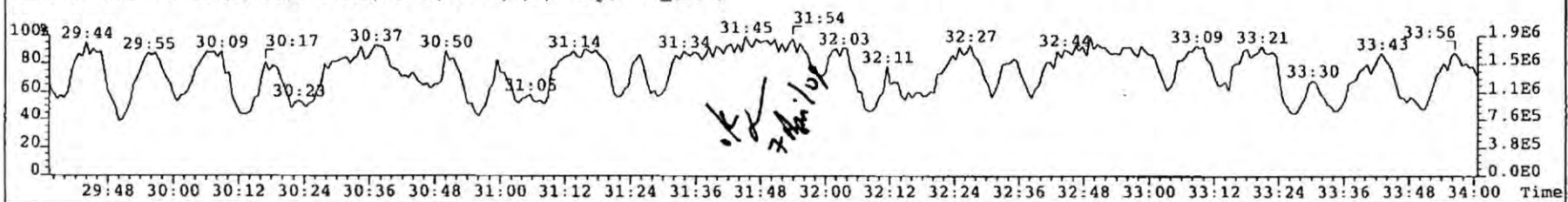
367.8949 S:8 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 115



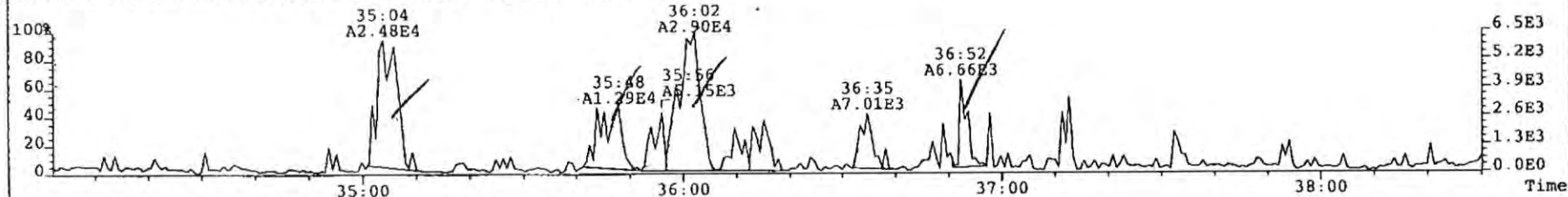
369.8919 S:8 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 102



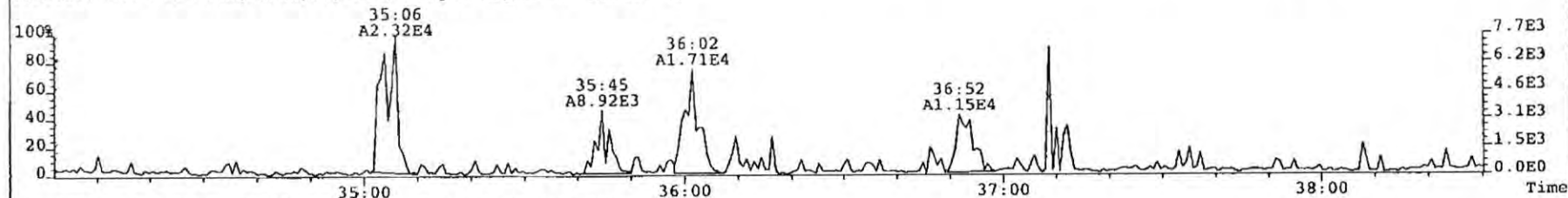
366.9792 S:8 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



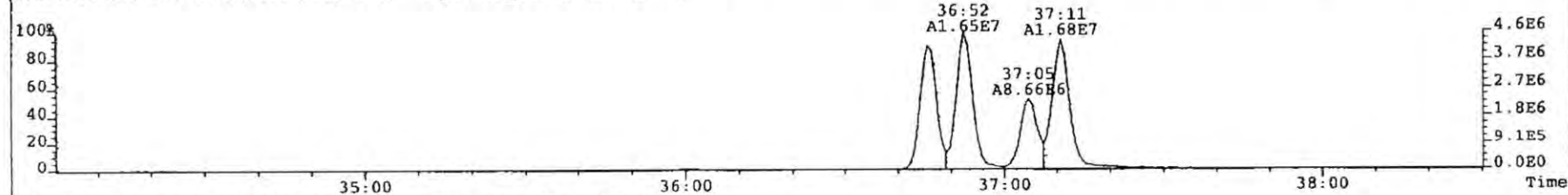
File: 090325P1 Acq: 25-MAR-2009 20:11:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 8 Text: P1193\_6679\_004 PO-BA-27B-SS-A-090313 10.37g Vial# 21 File Text: AP DB5  
389.8156 S:8 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 75



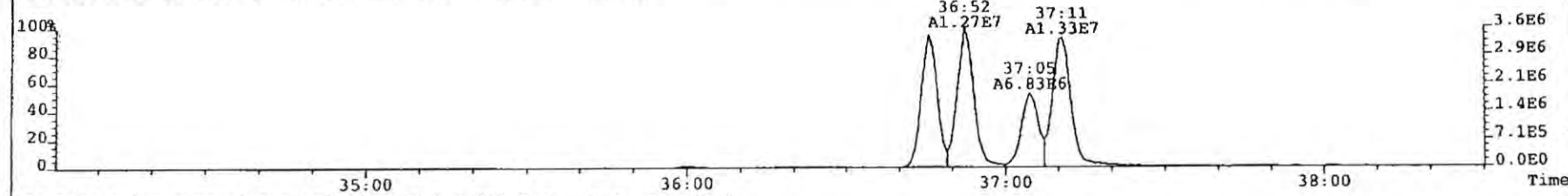
391.8127 S:8 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 73



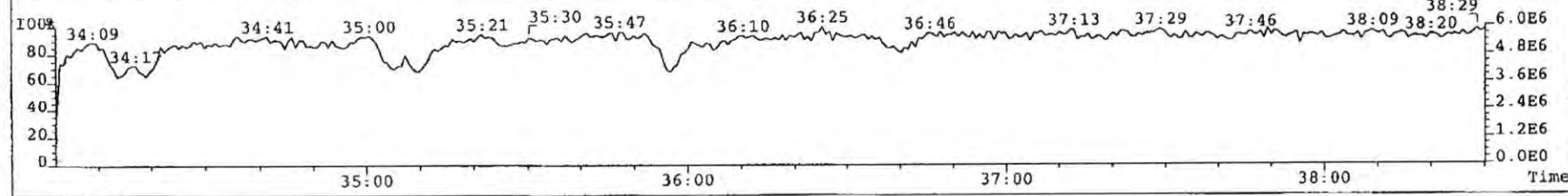
401.8559 S:8 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 77



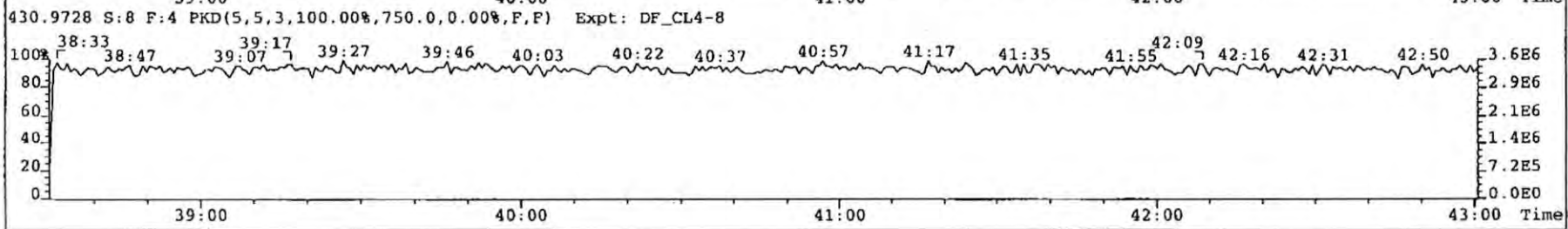
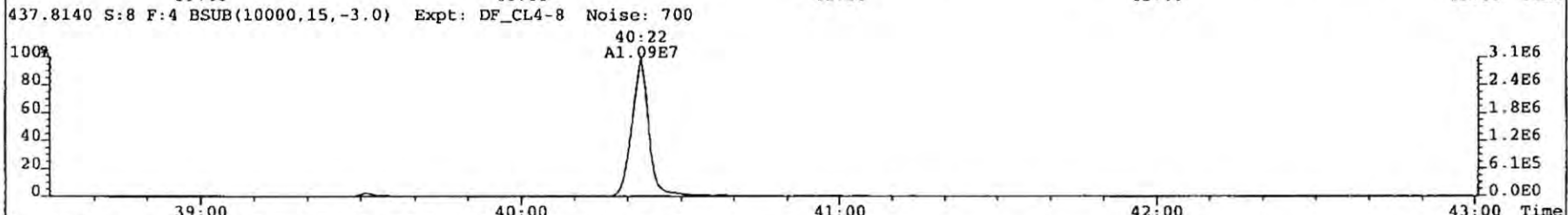
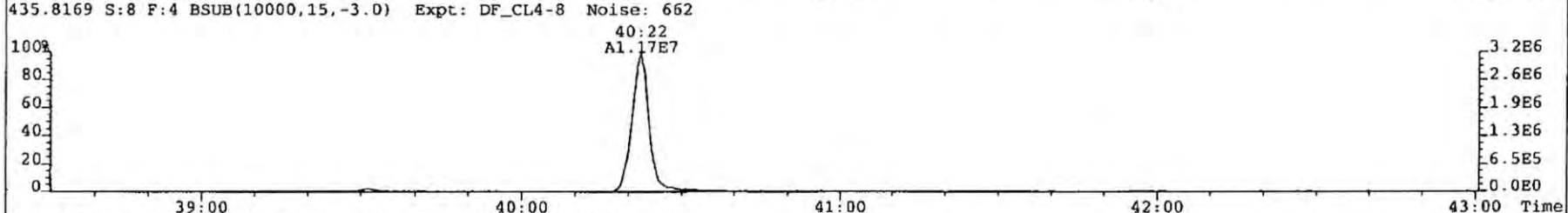
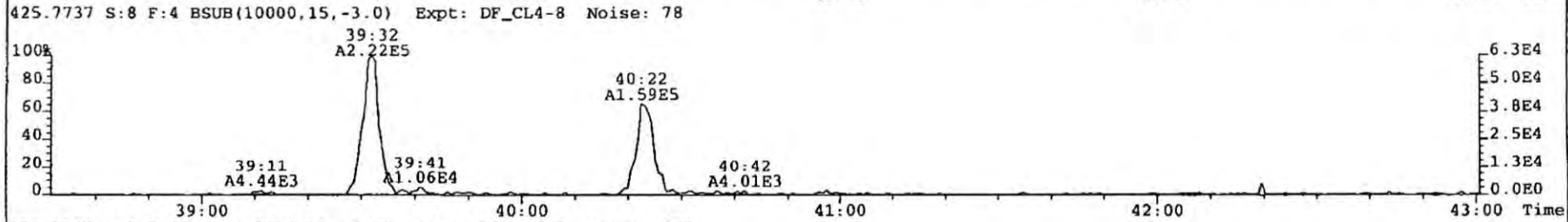
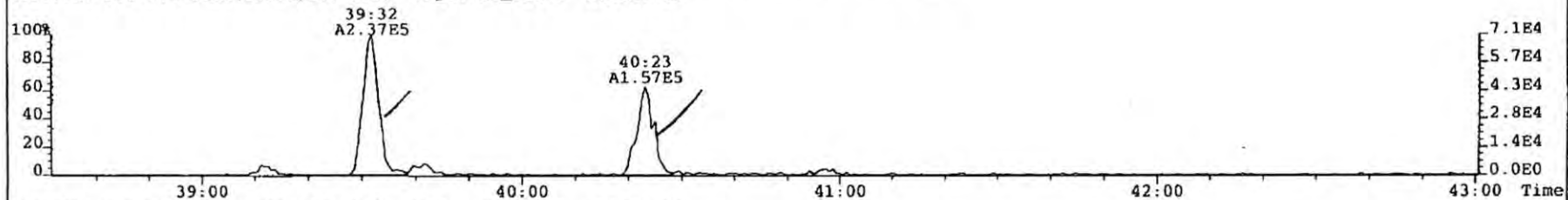
403.8530 S:8 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 85



380.9760 S:8 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



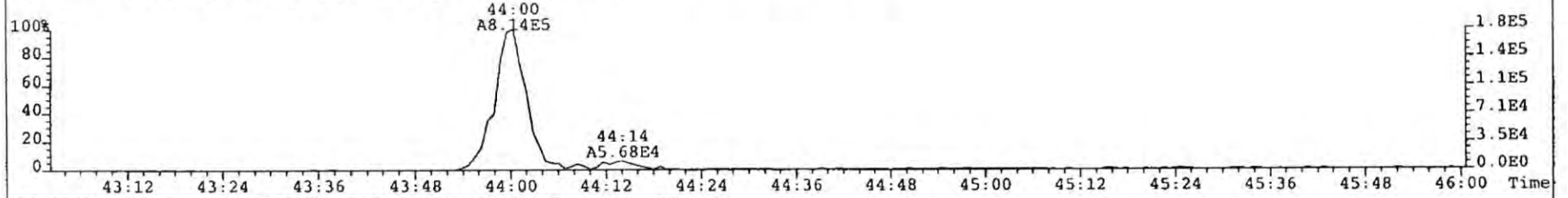
File: 090325P1 Acq: 25-MAR-2009 20:11:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 8 Text: P1193\_6679\_004 PO-BA-27B-SS-A-090313 10.37g Vial# 21 File Text: AP DBS  
423.7767 S:8 F:4 BSub(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 90



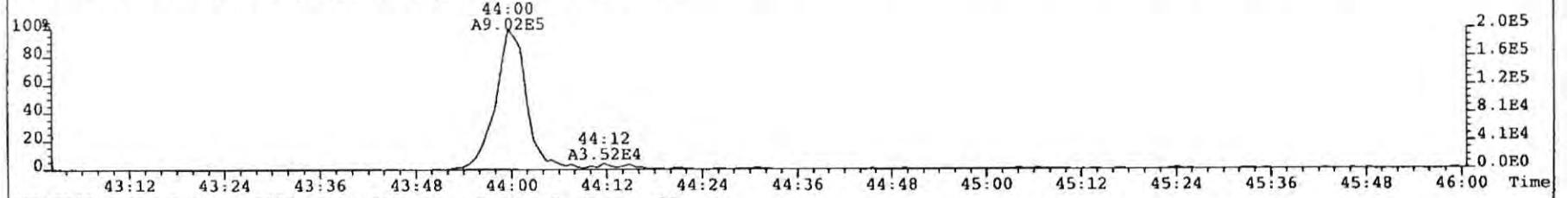




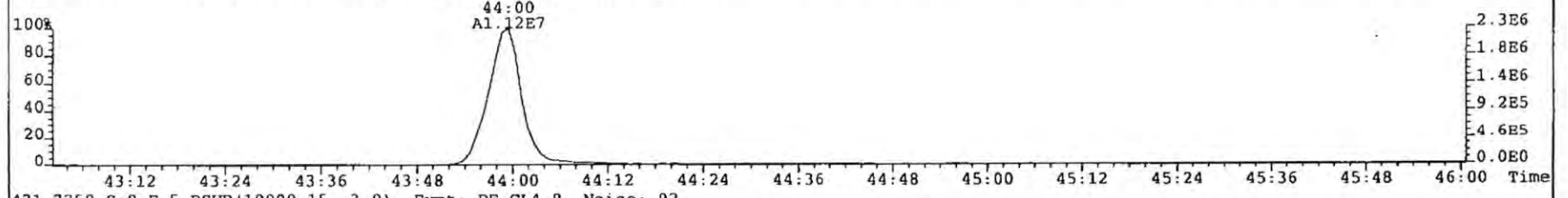
File: 090325P1 Acq: 25-MAR-2009 20:11:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 8 Text: P1193\_6679\_004 PO-BA-27B-SS-A-090313 10.37g Vial# 21 File Text: AP DB5  
457.7377 S:8 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 88



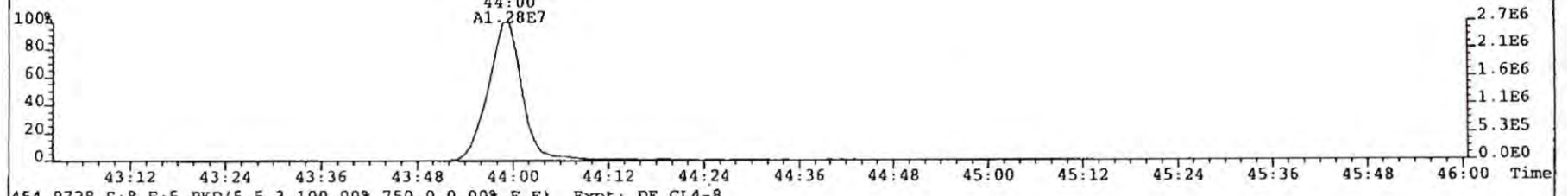
459.7348 S:8 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 92



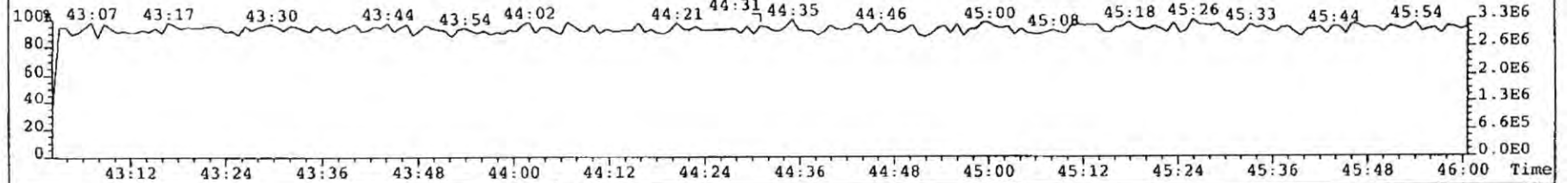
469.7780 S:8 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 92



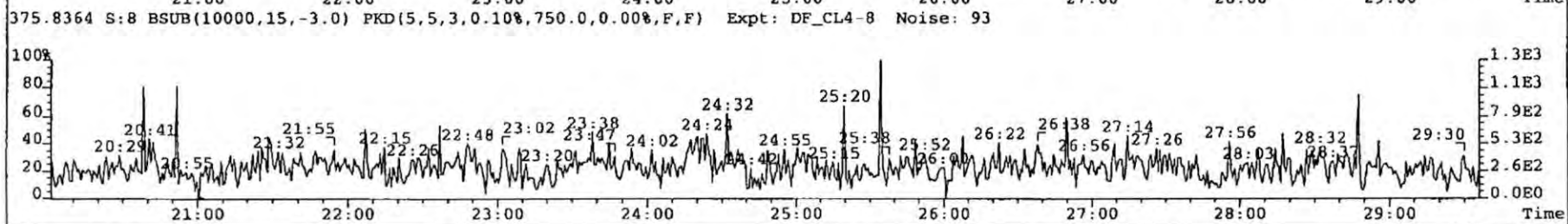
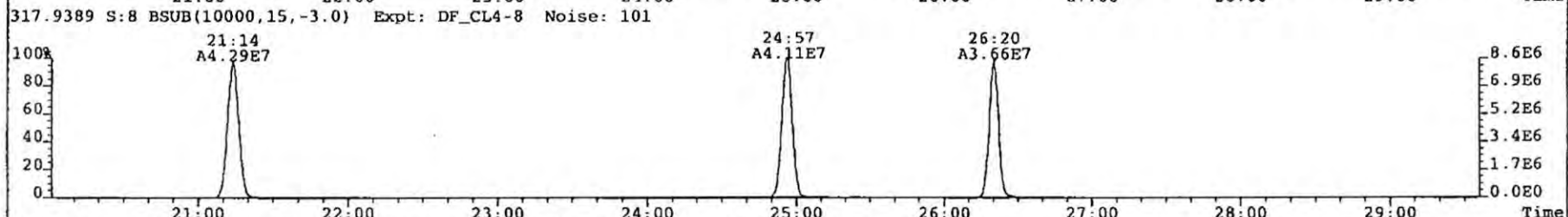
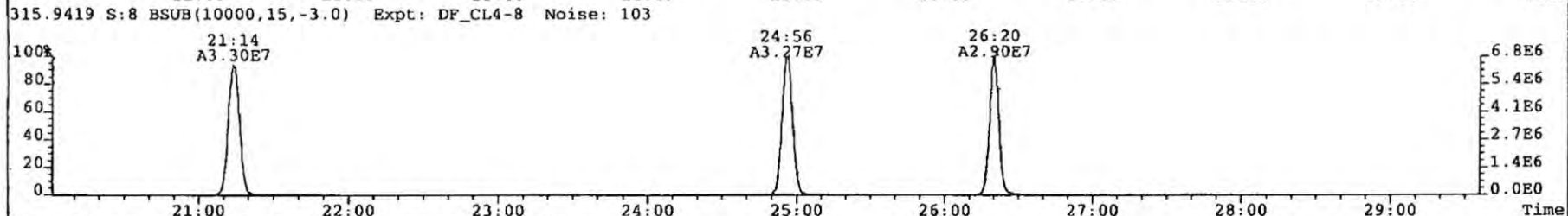
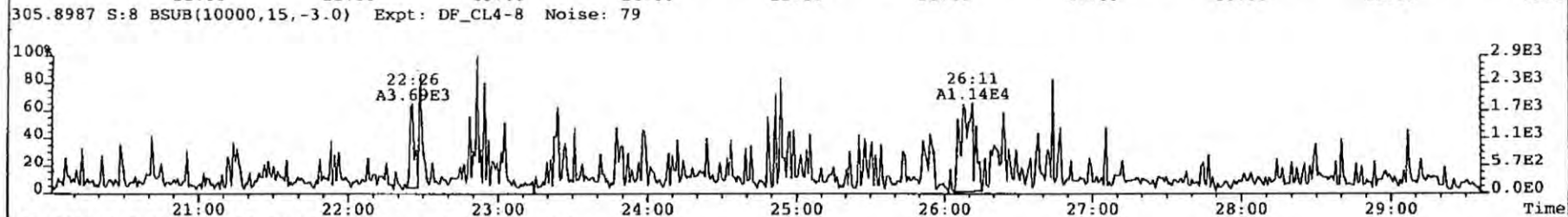
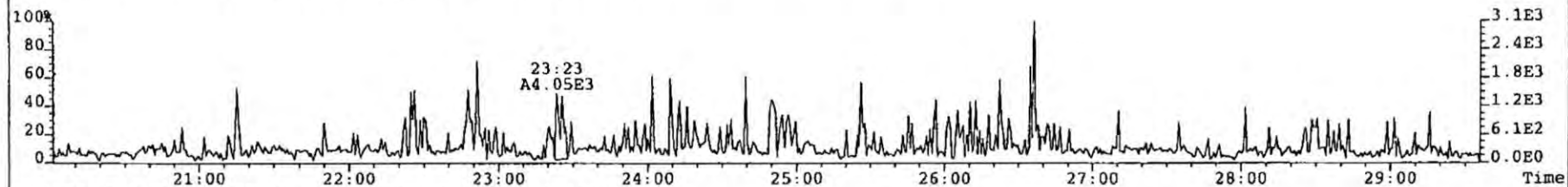
471.7750 S:8 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 92



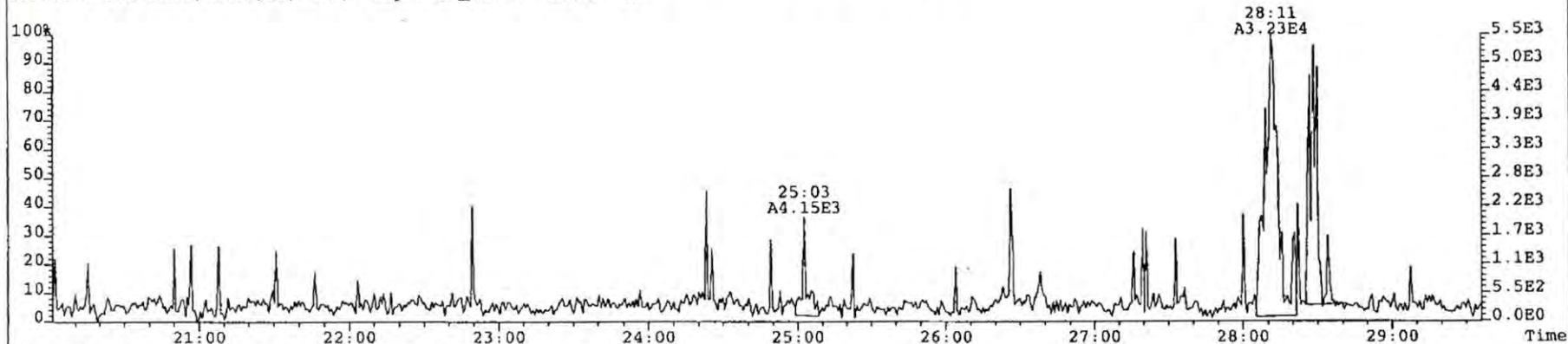
454.9728 S:8 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



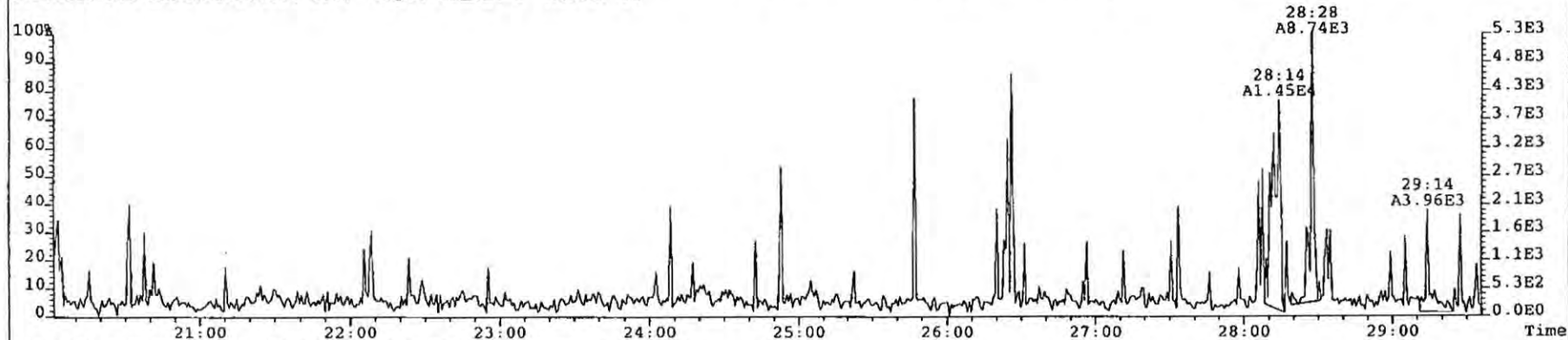
File: 090325P1 Acq: 25-MAR-2009 20:11:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 8 Text: P1193\_6679\_004 PO-BA-27B-SS-A-090313 10.37g Vial# 21 File Text: AP DB5  
303.9016 S:8 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 75



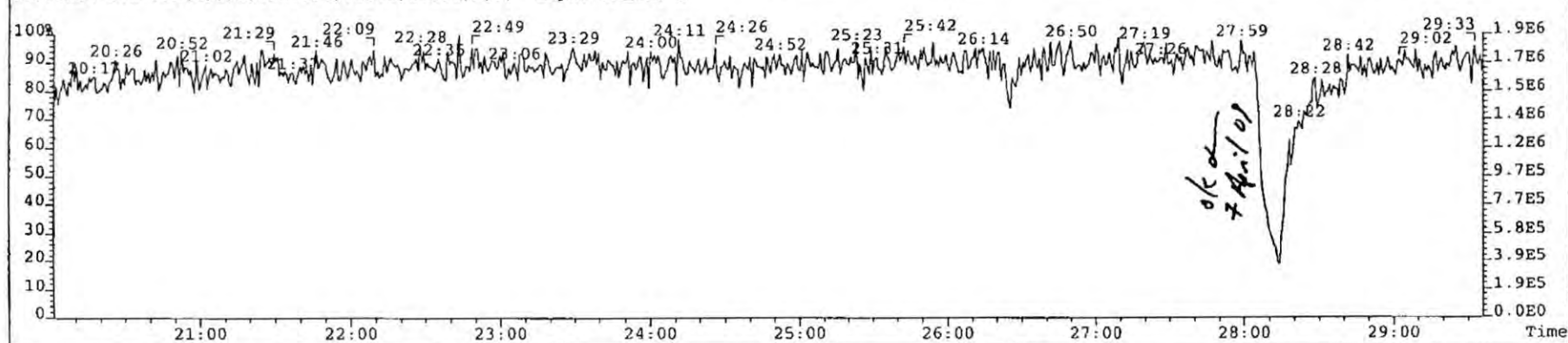
File: 090325P1 Acq: 25-MAR-2009 20:11:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 8 Text: P1193\_6679\_004 PO-BA-27B-SS-A-090313 10.37g Vial# 21 File Text: AP DB5  
339.8597 S:8 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 97



341.8568 S:8 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 92

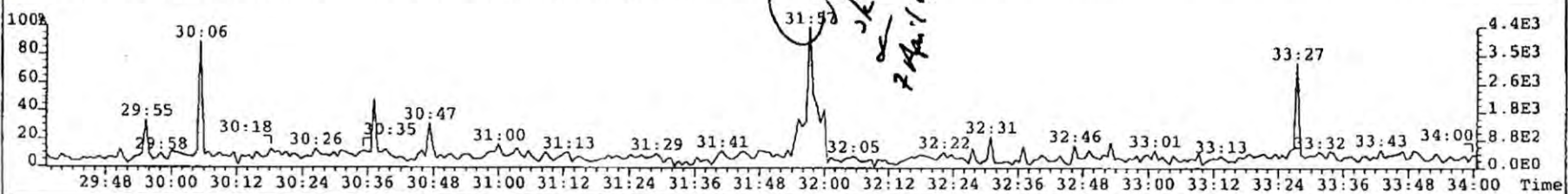
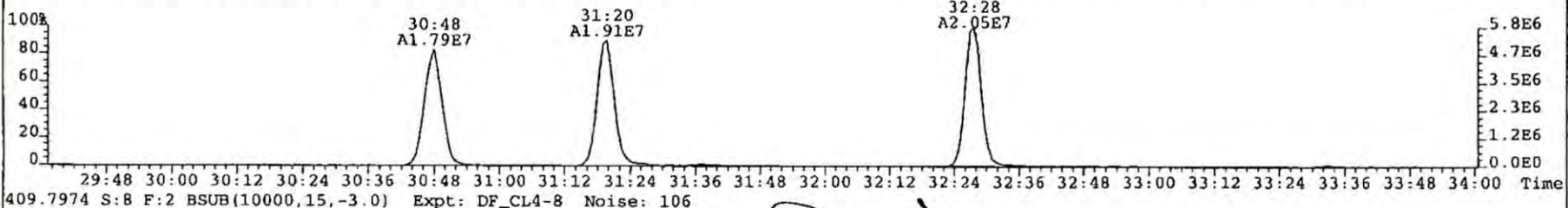
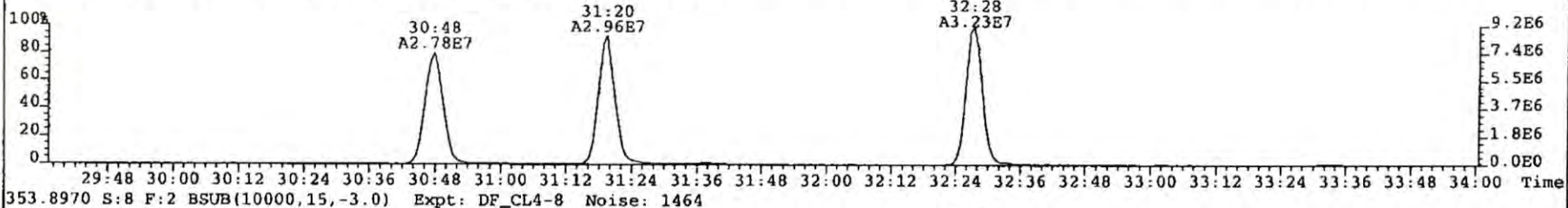
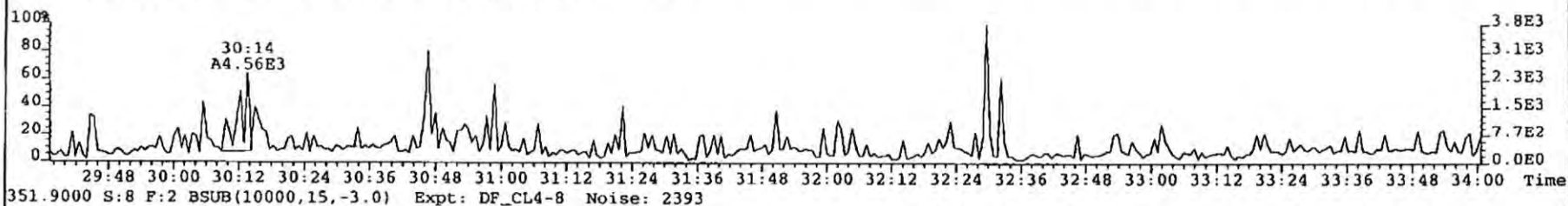
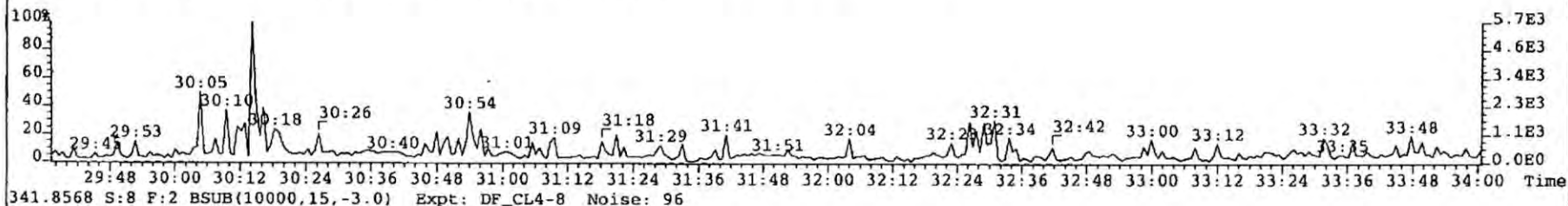


316.9824 S:8 PKD(S,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

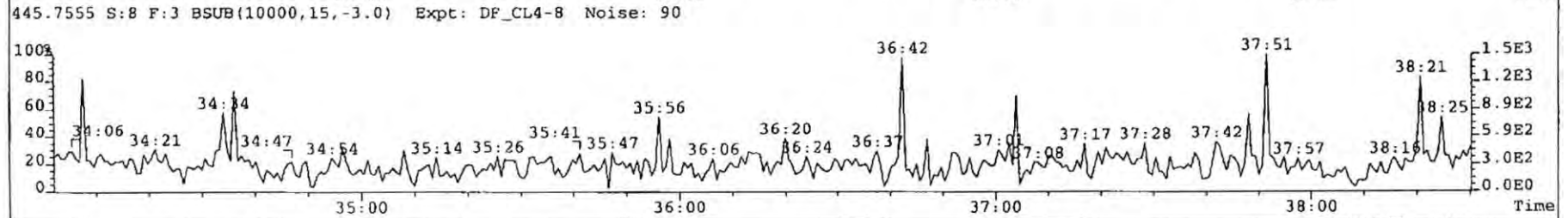
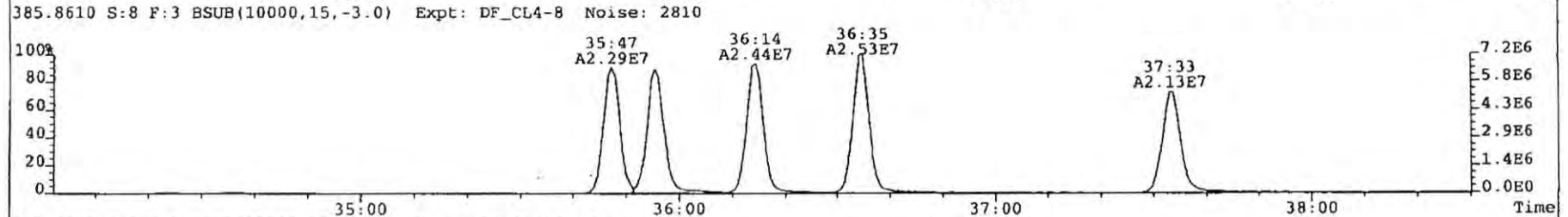
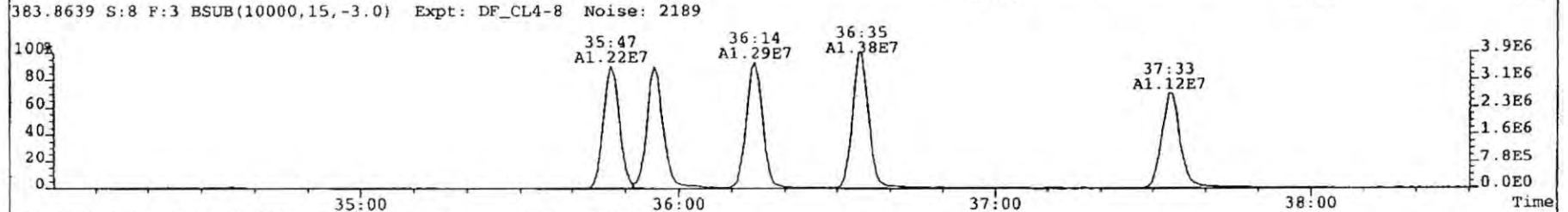
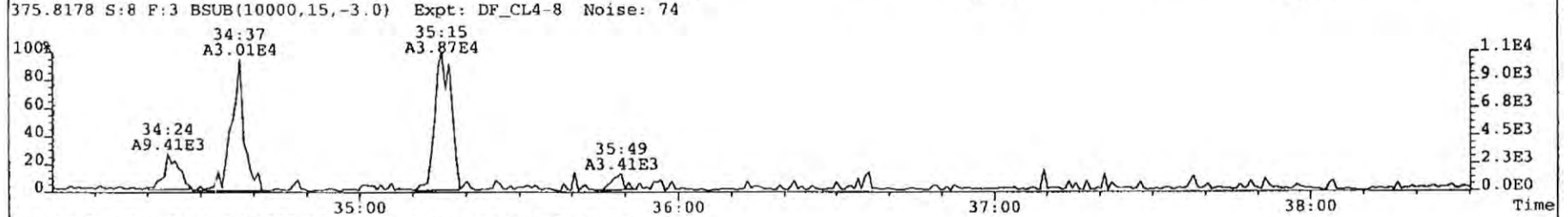
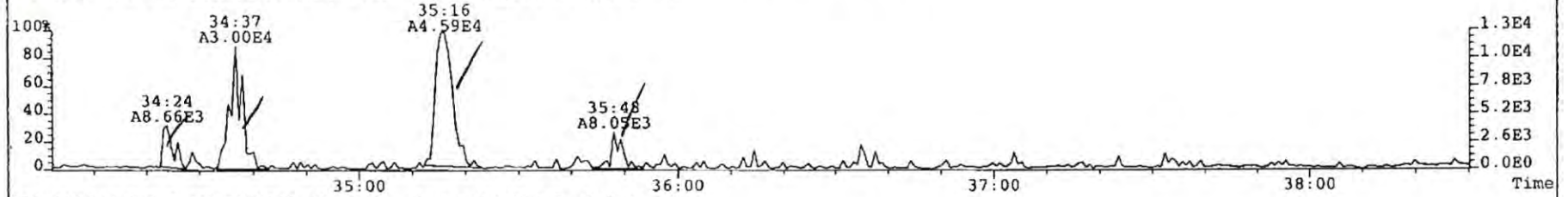




File: 090325F1 Acq: 25-MAR-2009 20:11:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 8 Text: P1193\_6679\_004 PO-BA-27B-SS-A-090313 10.37g Vial# 21 File Text: AP DB5  
339.8597 S:8 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 96

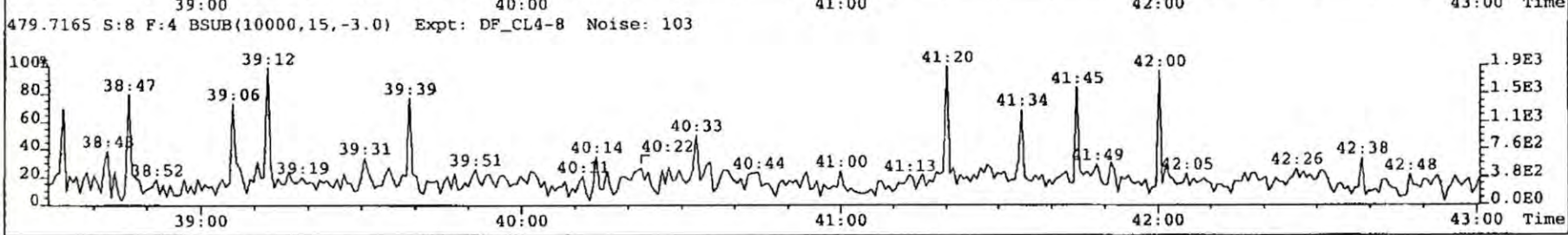
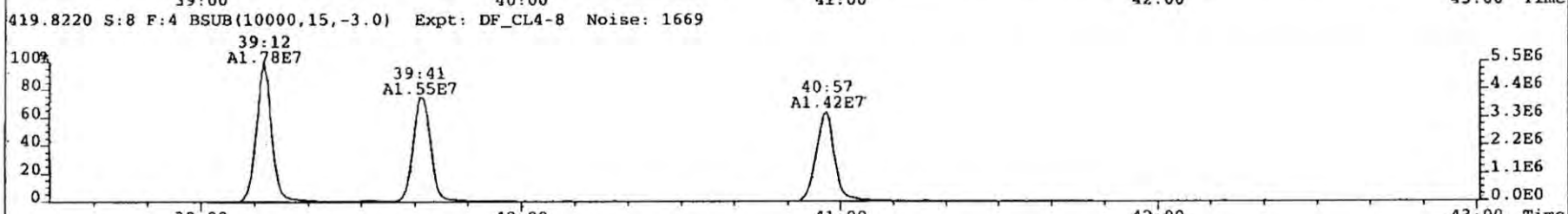
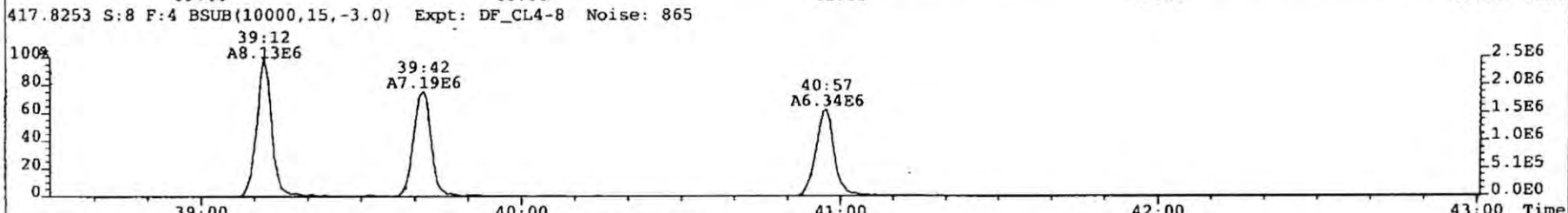
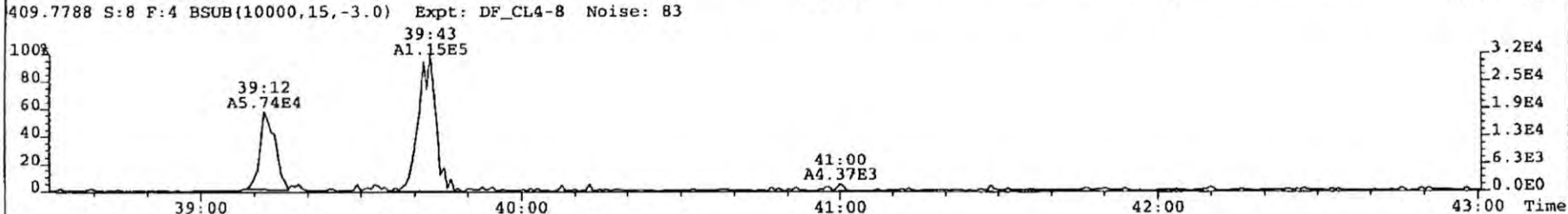
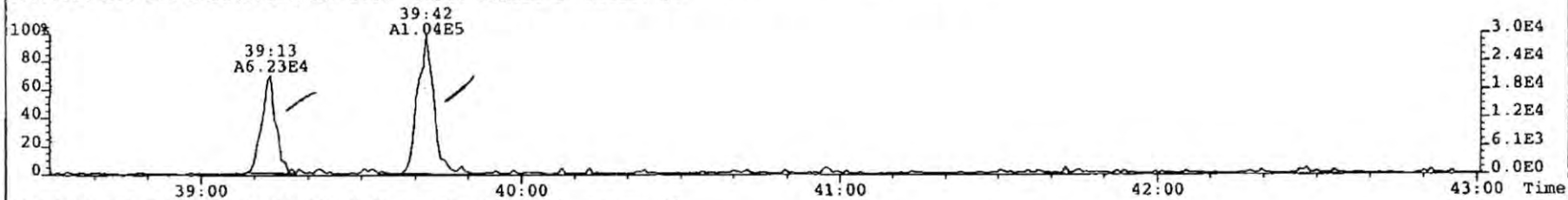


File: 090325P1 Acq: 25-MAR-2009 20:11:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 8 Text: P1193\_6679\_004 PO-BA-27B-SS-A-090313 10.37g Vial# 21 File Text: AP DB5  
373.8207 S:8 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 79



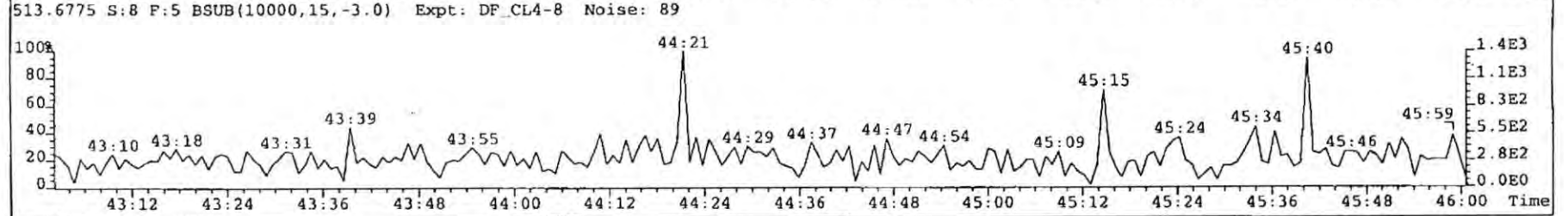
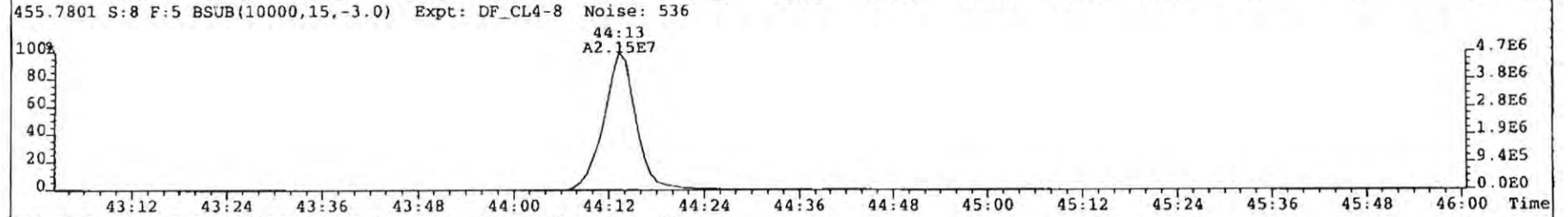
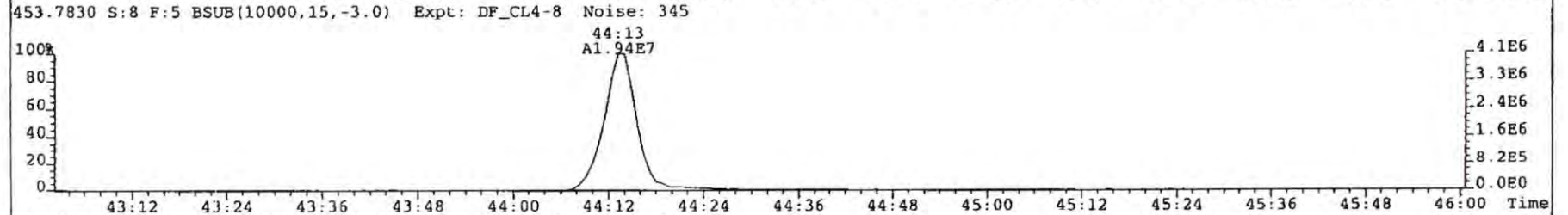
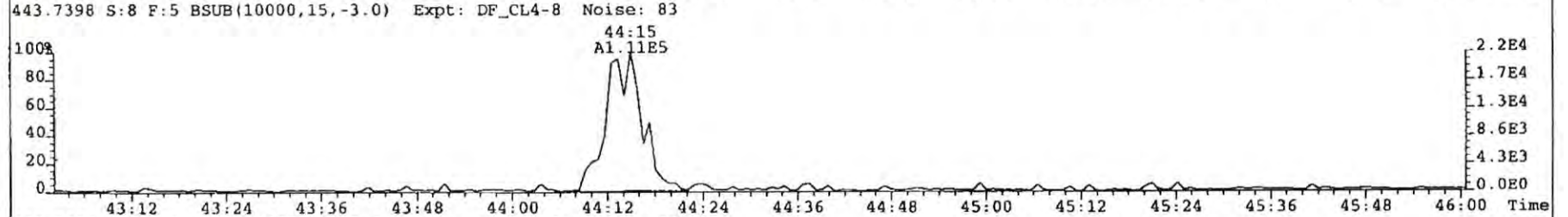
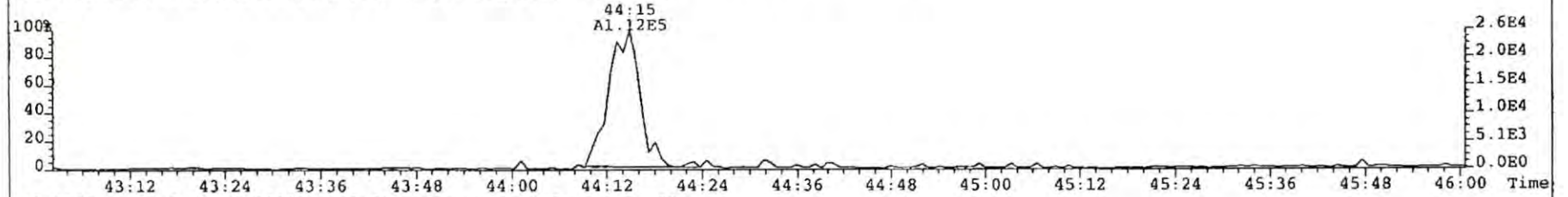


File: 090325P1 Acq: 25-MAR-2009 20:11:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 8 Text: P1193\_6679\_004 PO-BA-27B-SS-A-090313 10.37g Vial# 21 File Text: AP DB5  
407.7818 S:8 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 84





File: 090325P1 Acq: 25-MAR-2009 20:11:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 8 Text: P1193\_6679\_004 PO-BA-27B-SS-A-090313 10.37g Vial# 21 File Text: AP DB5  
441.7428 S:8 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 91



1013/8290 Sample Summary

Analytical Perspectives

[Form: DF]

Client ID: PO-UP-20-SS-A-090313      Filename: 090325P1      S: 9      Vial: 22      Acq: 25-MAR-09 21:01:10  
 Lab ID: P1193\_6679\_005      GC column ID: db-5      Cal: MM1\_DF\_07012007A\_25DEC08Wt/Vol: 10.07  
 Sample text: P1193\_6679\_005 PO-UP-20-SS-A-090313 10.07g      Stds: JS (split adj.): 2000      CS/SS: 800      ES: 2000

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	2.37e+05	0.68 y	27:17	1.08	0.850	784	2.5	0.0542	-
Ax	1,2,3,7,8-PeCDD	9.36e+05	1.55 y	32:50	1.00	4.39	1110	2.5	0.123	-
Ax	1,2,3,4,7,8-HxCDD	1.71e+06	1.20 y	36:46	1.08	9.63	9933	2.5	1.12	-
Ax	1,2,3,6,7,8-HxCDD	6.92e+06	1.22 y	36:53	0.94	39.2	9933	2.5	1.26	-
Ax	1,2,3,7,8,9-HxCDD	3.51e+06	1.19 y	37:11	0.99	18.3	9933	2.5	1.25	-
Ax	1,2,3,4,6,7,8-HpCDD	2.36e+08	1.04 y	40:23	0.97	1440	25630	2.5	3.31	-
Ax	OCDD	2.06e+09	0.91 y	44:01	1.06	15700	109798	2.5	19.6	-
Ax2	OCDD-a	1.25e+08	2.53 y	44:01	0.06	16000	9988	2.5	29.9	-
Ax	2,3,7,8-TCDF	1.15e+06	0.80 y	26:21	1.05	2.67	918	2.5	0.0427	-
Ax	1,2,3,7,8-PeCDF	9.70e+05	1.68 y	31:20	0.98	2.81	1604	2.5	0.108	-
Ax	2,3,4,7,8-PeCDF	1.93e+06	1.67 y	32:29	1.01	5.48	1604	2.5	0.102	-
Ax	1,2,3,4,7,8-HxCDF	4.09e+06	1.30 y	35:47	1.22	14.5	4339	2.5	0.201	-
Ax	1,2,3,6,7,8-HxCDF	2.12e+06	1.19 y	35:56	1.15	6.93	4339	2.5	0.198	-
Ax	2,3,4,6,7,8-HxCDF	2.86e+06	1.23 y	36:35	1.13	10.1	4339	2.5	0.218	-
Ax	1,2,3,7,8,9-HxCDF	6.36e+05	1.20 y	37:36	1.12	2.71	4339	2.5	0.304	-
Ax	1,2,3,4,6,7,8-HpCDF	5.94e+07	1.05 y	39:13	1.37	257	6720	2.5	0.398	-
Ax	1,2,3,4,7,8,9-HpCDF	2.27e+06	1.14 y	40:58	1.32	12.0	6720	2.5	0.562	-
Ax	OCDF	1.29e+08	0.89 y	44:15	0.94	842	14036	2.5	2.26	-
Ax2	OCDF-a	7.55e+06	2.68 y	44:15	0.05	875	4819	2.5	13.8	-
ES	13C-2,3,7,8-TCDD	5.12e+07	0.81 y	27:16	0.99	150	2275	2.5	0.129	75.6
ES	13C-1,2,3,7,8-PeCDD	4.25e+07	1.66 y	32:49	0.83	148	10188	2.5	0.685	74.6
ES	13C-1,2,3,4,7,8-HxCDD	3.27e+07	1.28 y	36:45	1.08	149	15128	2.5	1.41	75.2
ES	13C-1,2,3,6,7,8-HxCDD	3.72e+07	1.24 y	36:52	1.23	150	15128	2.5	1.25	75.6
ES	13C-1,2,3,7,8,9-HxCDD	3.84e+07	1.30 y	37:11	1.21	157	15128	2.5	1.26	79.0
ES	13C-1,2,3,4,6,7,8-HpCDD	3.35e+07	1.05 y	40:23	0.98	169	7988	2.5	0.819	84.9
ES	13C-OCDD	4.93e+07	0.85 y	44:00	0.66	370	8631	2.5	1.32	93.1
ES	13C-2,3,7,8-TCDF	8.19e+07	0.79 y	26:20	0.96	186	3035	2.5	0.150	93.6
ES	13C-1,2,3,7,8-PeCDF	6.97e+07	1.58 y	31:19	0.85	177	8163	2.5	0.452	89.3
ES	13C-2,3,4,7,8-PeCDF	6.89e+07	1.58 y	32:27	0.88	169	8163	2.5	0.437	85.2
ES	13C-1,2,3,4,7,8-HxCDF	4.60e+07	0.52 y	35:47	1.47	154	24566	2.5	1.68	77.7
ES	13C-1,2,3,6,7,8-HxCDF	5.26e+07	0.54 y	35:56	1.78	147	24566	2.5	1.40	73.8
ES	13C-2,3,4,6,7,8-HxCDF	4.96e+07	0.53 y	36:34	1.61	152	24566	2.5	1.54	76.7
ES	13C-1,2,3,7,8,9-HxCDF	4.18e+07	0.54 y	37:34	1.40	148	24566	2.5	1.77	74.4
ES	13C-1,2,3,4,6,7,8-HpCDF	3.36e+07	0.46 y	39:12	1.16	143	10416	2.5	0.905	72.1
ES	13C-1,2,3,4,7,8,9-HpCDF	2.86e+07	0.45 y	40:57	0.92	153	10416	2.5	1.14	77.2
ES	13C-OCDF	6.49e+07	0.90 y	44:14	1.04	309	19703	2.5	1.91	77.9
CS	37Cl-2,3,7,8-TCDD	2.21e+07		27:17	0.99	65.0			1.46	81.8
CS	13C-1,2,3,4,7-PeCDD	4.15e+07	1.67 y	32:18	0.77	157	10188	2.5	0.743	79.1
CS	13C-1,2,3,4,6-PeCDF	7.01e+07	1.55 y	30:47	0.79	192	8163	2.5	0.486	96.4
CS	13C-1,2,3,4,6,9-HxCDF	4.86e+07	0.53 y	36:14	1.41	170	24566	2.5	1.75	85.7
CS	13C-1,2,3,4,6,8,9-HpCDF	3.38e+07	0.44 y	39:41	0.91	184	10416	2.5	1.15	92.7
NA	n/a	*	* n	NotF*	Div0	*	2031	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	6.82e+07	0.83 y	26:36	-	19.3	2275	2.5	-	-
JS	13C-1,2,3,4-TCDF	9.15e+07	0.80 y	24:56	-	16.4	3035	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	2.01e+07	1.26 y	37:04	-	9.16	2760	2.5	-	-

ok  
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 1/2

Analyst: *[Signature]*  
 Date: *[Signature]*

7 April 09



SS	37C1-2,3,7,8-TCDD	2.21e+07		27:17	1.00	85.5			1.92	108
SS	13C-1,2,3,4,7-PeCDD	4.15e+07	1.67 y	32:18	0.93	209	10188	2.5	1.22	105
SS	13C-1,2,3,4,6-PeCDD	7.01e+07	1.55 y	30:47	0.94	213	8163	2.5	0.575	107
SS	13C-1,2,3,4,6,9-HxCDF	4.86e+07	0.53 y	36:14	0.80	229	24566	2.5	1.61	115
SS	13C-1,2,3,4,6,8,9-HpCDF	3.38e+07	0.44 y	39:41	0.79	253	10416	2.5	1.06	127
SBS	2,4,6,8-TCDF	1.89e+06	0.82 y	22:26	1.05	4.38	918	2.5	0.0427	-
Ay	1,3,6,8-TCDD	2.55e+06	0.78 y	23:26	1.08	9.12	784	2.5	0.0542	-
Ay	1,2,3,9-TCDD	5.83e+04	0.67 y	27:08	1.08	0.209	784	2.5	0.0542	-
Ay	1,2,8,9-TCDD	3.58e+04	0.93 y	28:18	1.08	0.128	784	2.5	0.0542	-
Ay	1,2,4,7,9-PeCDD	3.53e+06	1.66 y	30:16	1.00	16.5	1110	2.5	0.123	-
Ay	1,2,3,8,9-PeCDD	2.29e+05	1.70 y	33:17	1.00	1.07	1110	2.5	0.123	-
Ay	1,2,4,6,7,9-HxCDD	4.16e+07	1.20 y	35:04	1.00	228	9933	2.5	1.21	-
Ay	1,2,3,4,6,7,9-HpCDD	8.18e+08	1.05 y	39:32	0.97	4990	25630	2.5	3.31	-
Ay	1,3,6,8-TCDF	5.25e+05	0.80 y	21:15	1.05	1.22	918	2.5	0.0427	-
Ay	2,3,4,8-TCDF	2.69e+05	0.90 y	26:14	1.05	0.622	918	2.5	0.0427	-
Ay	1,2,8,9-TCDF	*	* n	NotF>	1.05	*	918	2.5	0.0427	-
Ay	1,3,4,6,8-PeCDF	1.21e+07	1.75 y	28:28	1.05	28.0	1491	2.5	0.0693	-
Ay	1,2,3,8,9-PeCDF	1.06e+05	1.65 y	33:34	1.00	0.304	1604	2.5	0.105	-
Ay	1,2,3,4,5,8-HxCDF	8.04e+06	1.25 y	34:24	1.15	29.1	4339	2.5	0.227	-
Tot	Total Tetra-Dioxins	7.49e+06	0.78 y	23:26	1.08	26.8	784	2.5	0.0542	-
Tot	Total Penta-Dioxins	1.22e+07	1.66 y	30:16	1.00	57.2	1110	2.5	0.123	-
Tot	Total Hexa-Dioxins	1.03e+08	1.20 y	35:04	1.00	564	9933	2.5	1.21	-
Tot	Total Hepta-Dioxins	1.05e+09	1.05 y	39:32	0.97	6420	25630	2.5	3.31	-
Tot	Total Tetra-Furans	1.56e+07	0.80 y	21:15	1.05	36.2	918	2.5	0.0427	-
Tot	Total Penta-Furans	1.45e+07	1.53 y	30:03	1.00	41.5	1604	2.5	0.105	-
Tot	Total Hexa-Furans	7.99e+07	1.25 y	34:24	1.15	289	4339	2.5	0.227	-
Tot	Total Hepta-Furans	1.81e+08	1.05 y	39:13	1.35	835	6720	2.5	0.472	-
Tot	TCDD EMPC	8.08e+06	0.78 y	23:26	1.08	28.9	784	2.5	0.0542	-
Tot	PeCDD EMPC	1.24e+07	1.66 y	30:16	1.00	58.1	1110	2.5	0.123	-
Tot	HxCDD EMPC	1.03e+08	1.20 y	35:04	1.00	564	9933	2.5	1.21	-
Tot	HpCDD EMPC	1.05e+09	1.05 y	39:32	0.97	6420	25630	2.5	3.31	-
Tot	TCDF EMPC	1.64e+07	0.80 y	21:15	1.05	38.0	918	2.5	0.0427	-
Tot	PeCDF EMPC	1.48e+07	1.53 y	30:03	1.00	42.5	1604	2.5	0.105	-
Tot	HxCDF EMPC	8.03e+07	1.25 y	34:24	1.15	290	4339	2.5	0.227	-
Tot	HpCDF EMPC	1.81e+08	1.05 y	39:13	1.35	835	6720	2.5	0.472	-
AS	13C-1,3,6,8-TCDD	4.89e+07	0.81 y	23:24	1.09	131	2275	2.5	0.117	65.9
AS	13C-1,3,6,8-TCDF	8.87e+07	0.78 y	21:13	1.09	177	3035	2.5	0.132	89.0
DPE	HxCDFE	*		NotF>	-	*	-	-	-	-
DPE	HpCDFE	*		NotF>	-	*	-	-	-	-
DPE	OCDPE	*		NotF>	-	*	-	-	-	-
DPE	NCDPE	*		NotF>	-	*	-	-	-	-
DPE	DCDFE	*		NotF>	-	*	-	-	-	-
LMC	Fn1 check mass	*		NotF>	-	*	-	-	-	-
LMC	Fn2 check mass	*		NotF>	-	*	-	-	-	-
LMC	Fn3 check mass	*		NotF>	-	*	-	-	-	-
LMC	Fn4 check mass	*		NotF>	-	*	-	-	-	-
LMC	Fn5 check mass	*		NotF>	-	*	-	-	-	-

no

ok 7 April 09



Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDD EMPC Function: 1 Run #: 16 Checkcode: 2775  
 File Name: 090325P1 Sample #: 9 Sample text: P1193\_6679\_005 PO-UP-20-SS-A-090313 10.»

Acquired: 25-MAR-09 21:01:10 Processed: 26-MAR-09 08:40:42

Total Conc.: 28.947 Unnamed Conc.: 18.638 Homolog count: 16 ✓

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
23:26	1.114e+06	n	1.433e+06	n	0.78 y	2.546e+06	2.546e+06	3.48e+02	y	9.12 1,3,6,8-TCDD
23:49	7.386e+05	n	9.839e+05	n	0.75 y	1.722e+06	1.722e+06	2.51e+02	y	6.17
24:15	7.779e+04	n	1.067e+05	n	0.73 y	1.845e+05	1.845e+05	2.70e+01	y	0.661
25:08	1.038e+05	n	1.264e+05	n	0.82 y	2.302e+05	2.302e+05	4.09e+01	y	0.825
25:23	1.796e+05	n	2.376e+05	n	0.76 y	4.172e+05	4.172e+05	6.13e+01	y	1.49
25:33	2.244e+05	n	2.851e+05	n	0.79 y	5.095e+05	5.095e+05	7.64e+01	y	1.82
25:46	7.091e+04	n	8.583e+04	n	0.83 y	1.567e+05	1.567e+05	2.11e+01	y	0.561
26:02	3.261e+04	n	3.543e+04	n	0.92 n	6.805e+04	6.271e+04	1.09e+01	y	0.225
26:13	7.576e+04	n	9.654e+04	n	0.78 y	1.723e+05	1.723e+05	2.31e+01	y	0.617
26:37	2.257e+05	n	2.537e+05	n	0.89 n	4.794e+05	4.491e+05	6.84e+01	y	1.61
27:00	4.829e+05	n	6.346e+05	n	0.76 y	1.118e+06	1.118e+06	1.73e+02	y	4.00
27:08	2.332e+04	n	3.493e+04	n	0.67 y	5.825e+04	5.825e+04	1.39e+01	y	0.209 1,2,3,9-TCDD
27:17	9.603e+04	n	1.414e+05	n	0.68 y	2.374e+05	2.374e+05	4.15e+01	y	0.850 2,3,7,8-TCDD
27:38	5.853e+04	n	8.210e+04	n	0.71 y	1.406e+05	1.406e+05	2.74e+01	y	0.504
27:47	2.650e+04	n	2.273e+04	n	1.17 n	4.924e+04	4.024e+04	7.88e+00	y	0.144
28:18	1.886e+04	n	2.020e+04	n	0.93 n	3.906e+04	3.575e+04	9.95e+00	y	0.128 1,2,8,9-TCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDD EMPC Function: 2 Run #: 16 Checkcode: 2775  
 File Name: 090325P1 Sample #: 9 Sample text: P1193\_6679\_005 PO-UP-20-SS-A-090313 10.»

Acquired: 25-MAR-09 21:01:10 Processed: 26-MAR-09 08:40:42

Total Conc.: 58.101 Unnamed Conc.: 36.097 Homolog count: 10 ✓

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
30:16	2.202e+06	n	1.329e+06	n	1.66 y	3.531e+06	3.531e+06	2.34e+02	y	16.5 1,2,4,7,9-PeCDD
30:49	8.905e+05	n	5.532e+05	n	1.61 y	1.444e+06	1.444e+06	1.37e+02	y	6.76
31:23	1.081e+06	n	6.780e+05	n	1.59 y	1.758e+06	1.758e+06	1.67e+02	y	8.24
31:34	6.548e+05	n	4.035e+05	n	1.62 y	1.058e+06	1.058e+06	1.02e+02	y	4.96
31:41	8.692e+05	n	5.487e+05	n	1.58 y	1.418e+06	1.418e+06	1.26e+02	y	6.64
31:57	7.302e+05	n	4.662e+05	n	1.57 y	1.196e+06	1.196e+06	9.06e+01	y	5.61
32:20	3.930e+05	n	2.455e+05	n	1.60 y	6.385e+05	6.385e+05	6.34e+01	y	2.99
32:50	5.691e+05	n	3.670e+05	n	1.55 y	9.361e+05	9.361e+05	9.35e+01	y	4.39 1,2,3,7,8-PeCDD
32:56	1.611e+05	n	7.510e+04	n	2.14 n	2.362e+05	1.915e+05	2.25e+01	y	0.897
33:17	1.440e+05	n	8.487e+04	n	1.70 y	2.289e+05	2.289e+05	2.15e+01	y	1.07 1,2,3,8,9-PeCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDD EMPC Function: 3 Run #: 16 Checkcode: 2775  
 File Name: 090325P1 Sample #: 9 Sample text: P1193\_6679\_005 PO-UP-20-SS-A-090313 10.»

Acquired: 25-MAR-09 21:01:10 Processed: 26-MAR-09 08:40:42

Total Conc.: 564.05 Unnamed Conc.: 268.841 Homolog count: 8 ✓

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
35:04	2.269e+07	n	1.890e+07	n	1.20	y	4.160e+07	4.160e+07	5.52e+02	y	228 1,2,4,6,7,9-HxCDD
35:43	4.866e+06	n	3.888e+06	n	1.25	y	8.755e+06	8.755e+06	1.10e+02	y	48.0
36:01	1.560e+07	n	1.277e+07	n	1.22	y	2.837e+07	2.837e+07	2.86e+02	y	156
36:09	5.560e+06	n	4.422e+06	n	1.26	y	9.982e+06	9.982e+06	1.18e+02	y	54.7
36:46	9.342e+05	n	7.804e+05	n	1.20	y	1.715e+06	1.715e+06	2.15e+01	y	9.63 1,2,3,4,7,8-HxCDD
36:53	3.807e+06	n	3.116e+06	n	1.22	y	6.923e+06	6.923e+06	8.25e+01	y	39.2 1,2,3,6,7,8-HxCDD
37:05	1.076e+06	n	8.352e+05	n	1.29	y	1.912e+06	1.912e+06	2.30e+01	y	10.5
37:11	1.906e+06	n	1.601e+06	n	1.19	y	3.507e+06	3.507e+06	3.95e+01	y	18.3 1,2,3,7,8,9-HxCDD
Totals Results Analytical Perspectives [Form: TOT]											

Totals class: HpCDD EMPC Function: 4 Run #: 16 Checkcode: 2775  
 File Name: 090325P1 Sample #: 9 Sample text: P1193\_6679\_005 PO-UP-20-SS-A-090313 10.»

Acquired: 25-MAR-09 21:01:10 Processed: 26-MAR-09 08:40:42

Total Conc.: 6422.5 Unnamed Conc.: \* Homolog count: 2 ✓

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
39:32	4.195e+08	n	3.987e+08	n	1.05	y	8.182e+08	8.182e+08	4.11e+03	y	4990 1,2,3,4,6,7,9-HpCDD
40:23	1.199e+08	n	1.157e+08	n	1.04	y	2.356e+08	2.356e+08	1.12e+03	y	1440 1,2,3,4,6,7,8-HpCDD
Totals Results Analytical Perspectives [Form: TOT]											

Totals class: TCDF EMPC Function: 1 Run #: 16 Checkcode: 2775  
 File Name: 090325P1 Sample #: 9 Sample text: P1193\_6679\_005 PO-UP-20-SS-A-090313 10.»

Acquired: 25-MAR-09 21:01:10 Processed: 26-MAR-09 08:40:42

Total Conc.: 38.034 Unnamed Conc.: 29.146 Homolog count: 23 ✓

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
21:15	2.333e+05	n	2.914e+05	n	0.80	y	5.247e+05	5.247e+05	6.23e+01	y	1.22 1,3,6,8-TCDF
21:48	2.841e+05	n	3.971e+05	n	0.72	y	6.812e+05	6.812e+05	8.70e+01	y	1.58
22:26	8.529e+05	n	1.038e+06	n	0.82	y	1.890e+06	1.890e+06	1.91e+02	y	4.38 2,4,6,8-TCDF
22:58	7.833e+05	n	1.016e+06	n	0.77	y	1.800e+06	1.800e+06	1.47e+02	y	4.17
23:23	7.865e+05	n	9.744e+05	n	0.81	y	1.761e+06	1.761e+06	1.50e+02	y	4.08
23:50	4.848e+05	n	6.891e+05	n	0.70	y	1.174e+06	1.174e+06	1.39e+02	y	2.72
23:59	1.757e+05	n	1.859e+05	n	0.95	n	3.616e+05	3.291e+05	4.67e+01	y	0.762
24:09	2.775e+05	n	3.992e+05	n	0.70	y	6.767e+05	6.767e+05	8.86e+01	y	1.57
24:33	1.300e+05	n	1.549e+05	n	0.84	y	2.849e+05	2.849e+05	3.65e+01	y	0.660
24:41	2.142e+05	n	2.728e+05	n	0.79	y	4.870e+05	4.870e+05	5.94e+01	y	1.13
24:50	5.602e+05	n	7.033e+05	n	0.80	y	1.263e+06	1.263e+06	1.47e+02	y	2.93
24:58	3.439e+05	n	4.227e+05	n	0.81	y	7.666e+05	7.666e+05	8.89e+01	y	1.78
25:26	4.332e+05	n	5.799e+05	n	0.75	y	1.013e+06	1.013e+06	1.20e+02	y	2.35
25:43	1.658e+05	n	2.326e+05	n	0.71	y	1.153e+05	3.983e+05	5.84e+01	y	0.923
25:55	1.095e+05	n	1.348e+05	n	0.81	y	2.443e+05	2.443e+05	3.36e+01	y	0.566
26:08	1.364e+05	n	1.695e+05	n	0.80	y	3.059e+05	3.059e+05	4.98e+01	y	0.709
26:14	1.359e+05	n	1.517e+05	n	0.90	n	2.876e+05	2.685e+05	4.28e+01	y	0.622 2,3,4,8-TCDF
26:21	5.114e+05	n	6.413e+05	n	0.80	y	1.153e+06	1.153e+06	1.59e+02	y	2.67 2,3,7,8-TCDF
26:36	7.556e+03	n	9.327e+03	n	0.81	y	1.688e+04	1.688e+04	4.23e+00	y	0.0391
26:45	5.306e+05	n	6.729e+05	n	0.79	y	1.204e+06	1.204e+06	1.53e+02	y	2.79
27:00	5.250e+04	n	8.466e+04	n	0.62	n	1.372e+05	1.207e+05	2.33e+01	y	0.280
27:08	5.712e+03	n	6.176e+03	n	0.92	n	1.189e+04	1.093e+04	2.65e+00	y	0.0253
27:17	1.825e+04	n	3.108e+04	n	0.59	n	4.933e+04	4.195e+04	1.02e+01	y	0.0972
Totals Results Analytical Perspectives [Form: TOT]											



Totals class: PeCDF EMPC Function: 2 Run #: 16 Checkcode: 2775  
 File Name: 090325P1 Sample #: 9 Sample text: P1193\_6679\_005 PO-UP-20-SS-A-090313 10.»

Acquired: 25-MAR-09 21:01:10 Processed: 26-MAR-09 08:40:42

Total Conc.: 42.466 Unnamed Conc.: 33.876 Homolog count: 12 ✓

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
30:03	7.067e+05	n	4.623e+05	n	1.53	y	1.169e+06	1.169e+06	6.68e+01	y	3.35	
30:13	3.796e+06	n	2.414e+06	n	1.57	y	6.210e+06	6.210e+06	2.94e+02	y	17.8	
30:39	1.595e+05	n	8.556e+04	n	1.86	n	2.451e+05	2.182e+05	1.29e+01	y	0.626	
30:53	1.283e+06	n	8.014e+05	n	1.60	y	2.084e+06	2.084e+06	1.02e+02	y	5.98	
31:08	2.959e+05	n	1.899e+05	n	1.56	y	4.858e+05	4.858e+05	3.10e+01	y	1.39	
31:20	6.072e+05	n	3.625e+05	n	1.68	y	9.696e+05	9.696e+05	5.94e+01	y	2.81	1,2,3,7,8-PeCDF
31:38	7.167e+05	n	4.253e+05	n	1.68	y	1.142e+06	1.142e+06	5.91e+01	y	3.27	
31:49	4.439e+04	n	1.381e+04	n	3.21	n	5.820e+04	3.522e+04	3.48e+00	y	0.101	
32:12	4.537e+04	n	3.680e+04	n	1.23	n	8.218e+04	7.465e+04	6.07e+00	y	0.214	
32:21	2.288e+05	n	1.651e+05	n	1.39	y	3.938e+05	3.938e+05	2.46e+01	y	1.13	
32:29	1.205e+06	n	7.220e+05	n	1.67	y	1.927e+06	1.927e+06	8.77e+01	y	5.48	2,3,4,7,8-PeCDF
33:34	6.597e+04	n	4.007e+04	n	1.65	y	1.060e+05	1.060e+05	7.78e+00	y	0.304	1,2,3,8,9-PeCDF
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: HxCDF EMPC Function: 3 Run #: 16 Checkcode: 2775  
 File Name: 090325P1 Sample #: 9 Sample text: P1193\_6679\_005 PO-UP-20-SS-A-090313 10.»

Acquired: 25-MAR-09 21:01:10 Processed: 26-MAR-09 08:40:42

Total Conc.: 289.98 Unnamed Conc.: 226.558 Homolog count: 11 ✓

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
34:24	4.465e+06	n	3.575e+06	n	1.25	y	8.040e+06	8.040e+06	2.35e+02	y	29.1	1,2,3,4,6,8-HxCDF
34:36	1.479e+07	n	1.180e+07	n	1.25	y	2.659e+07	2.659e+07	8.06e+02	y	96.4	
34:50	2.156e+05	y	1.397e+05	y	1.54	n	3.553e+05	3.129e+05	8.27e+00	y	1.13	
35:01	5.623e+05	n	4.505e+05	y	1.25	y	1.013e+06	1.013e+06	2.71e+01	y	3.67	
35:15	1.857e+07	n	1.488e+07	n	1.25	y	3.344e+07	3.344e+07	9.76e+02	y	121	
35:40	3.857e+05	y	3.430e+05	y	1.12	y	7.287e+05	7.287e+05	2.01e+01	y	2.64	
35:47	2.317e+06	y	1.776e+06	y	1.30	y	4.093e+06	4.093e+06	1.15e+02	y	14.5	1,2,3,4,7,8-HxCDF
35:56	1.149e+06	y	9.673e+05	y	1.19	y	2.116e+06	2.116e+06	5.34e+01	y	6.93	1,2,3,6,7,8-HxCDF
36:15	2.362e+05	n	1.887e+05	y	1.25	y	4.249e+05	4.249e+05	1.14e+01	y	1.54	
36:35	1.579e+06	n	1.281e+06	n	1.23	y	2.860e+06	2.860e+06	8.37e+01	y	10.1	2,3,4,6,7,8-HxCDF
37:36	3.471e+05	n	2.892e+05	n	1.20	y	6.363e+05	6.363e+05	1.42e+01	y	2.71	1,2,3,7,8,9-HxCDF
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: HpCDF EMPC Function: 4 Run #: 16 Checkcode: 2775  
 File Name: 090325P1 Sample #: 9 Sample text: P1193\_6679\_005 PO-UP-20-SS-A-090313 10.»

Acquired: 25-MAR-09 21:01:10 Processed: 26-MAR-09 08:40:42

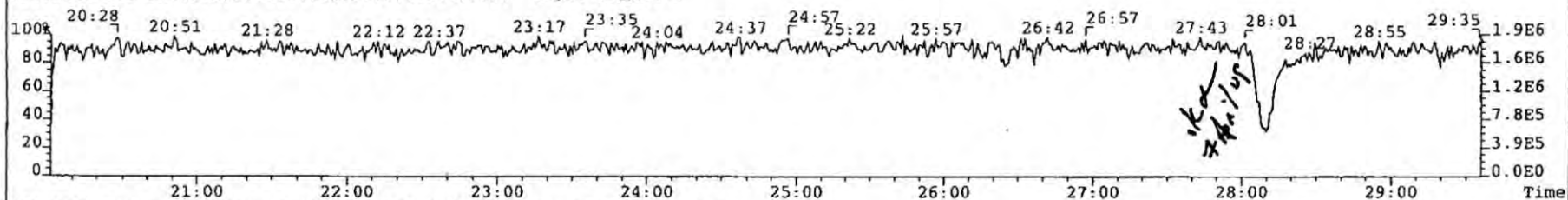
Total Conc.: 834.75 Unnamed Conc.: 565.493 Homolog count: 4 ✓

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
39:13	3.043e+07	n	2.896e+07	n	1.05	y	5.939e+07	5.939e+07	1.16e+03	y	257	1,2,3,4,6,7,8-HpCDF
39:31	9.888e+05	y	9.828e+05	y	1.01	y	1.972e+06	1.972e+06	3.20e+01	y	9.37	

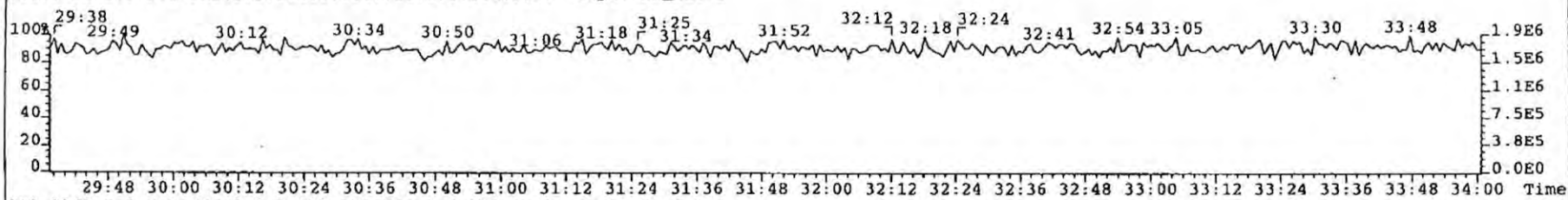


39:42	5.965e+07	n	5.743e+07	n	1.04	y	1.171e+08	1.171e+08	2.32e+03	y	556
40:59	1.212e+06	n	1.061e+06	n	1.14	y	2.273e+06	2.273e+06	3.83e+01	y	12.0 1,2,3,4,7,8,9-HpCDF

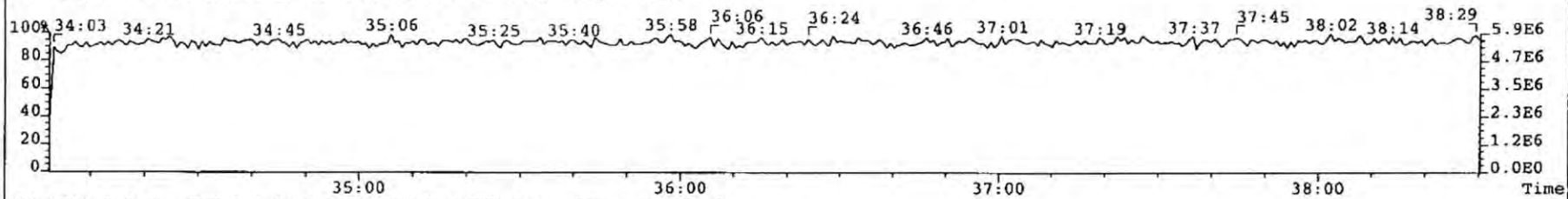
File: 090325P1 Acq: 25-MAR-2009 21:01:10 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 9 Text: P1193\_6679\_005 PO-UP-20-SS-A-090313 10.07g Vial# 22 File Text: AP DB5  
316.9824 S:9 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



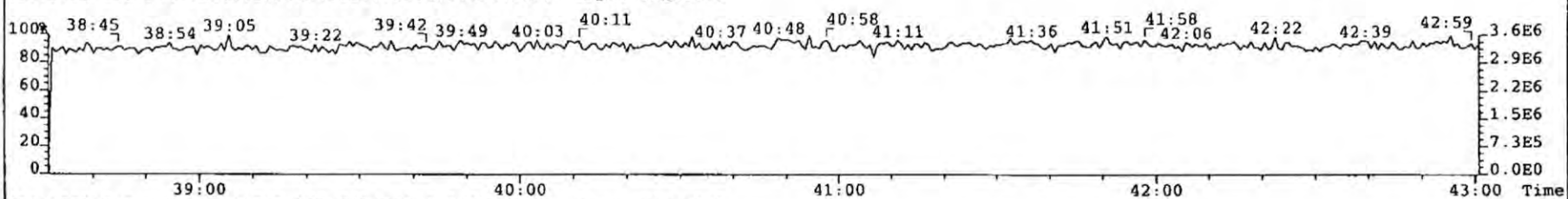
366.9792 S:9 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



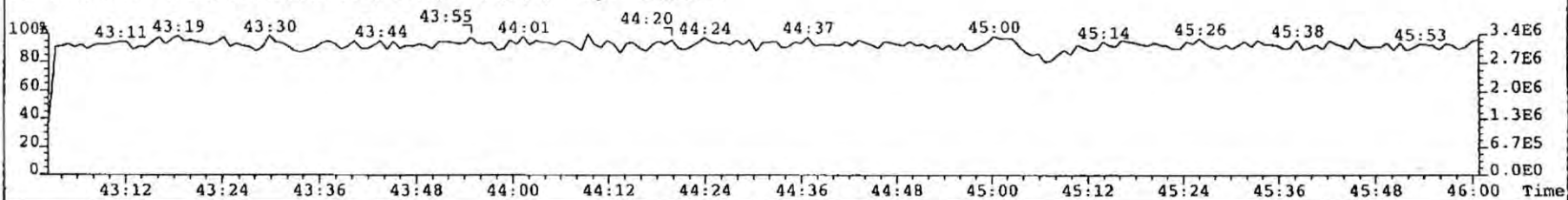
380.9760 S:9 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



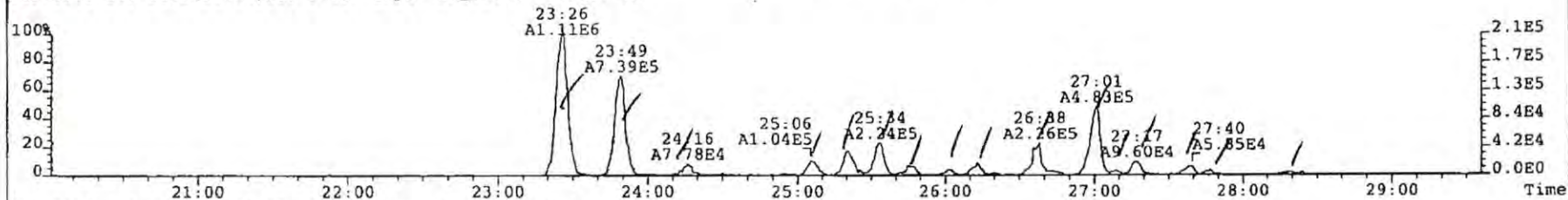
430.9728 S:9 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



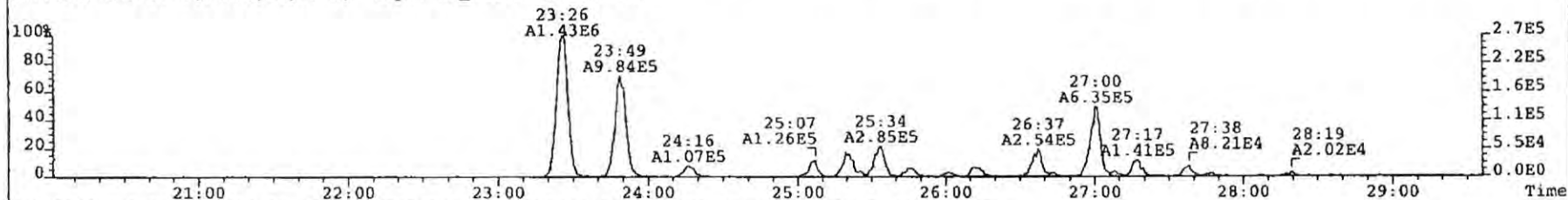
454.9728 S:9 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



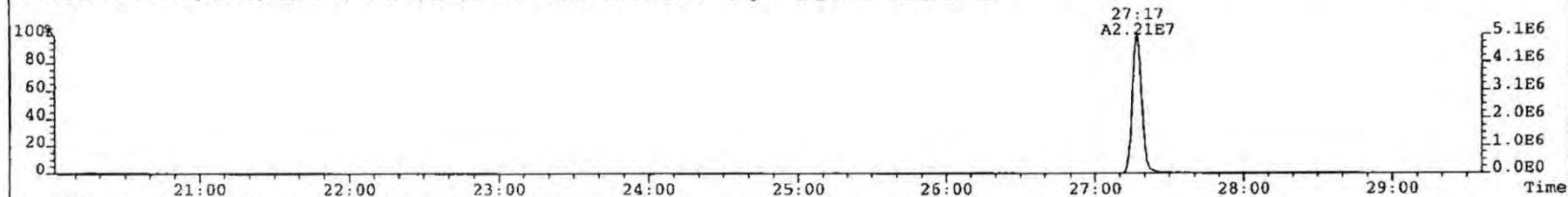
File: 090325P1 Acq: 25-MAR-2009 21:01:10 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 9 Text: P1193\_6679\_005 PO-UP-20-SS-A-090313 10.07g Vial# 22 File Text: AP DB5  
319.8965 S:9 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 93



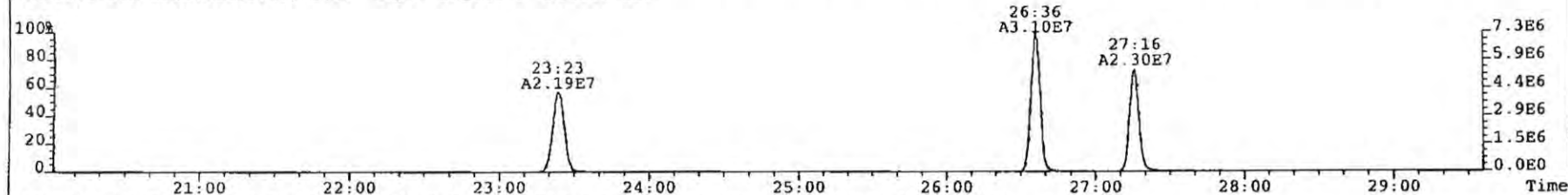
321.8936 S:9 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 96



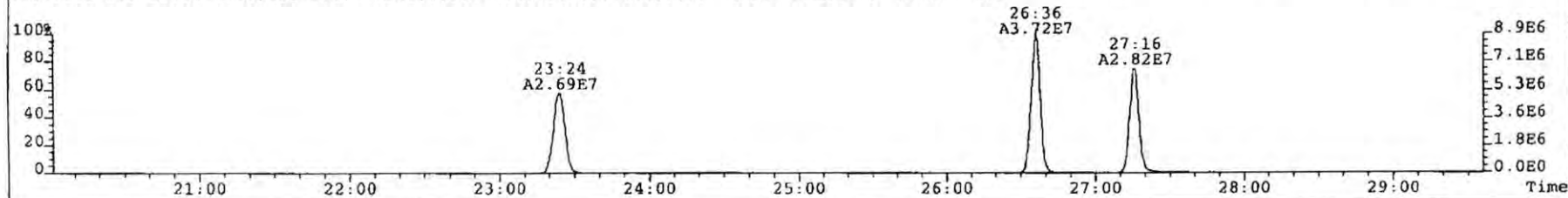
327.8850 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 99



331.9368 S:9 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 115

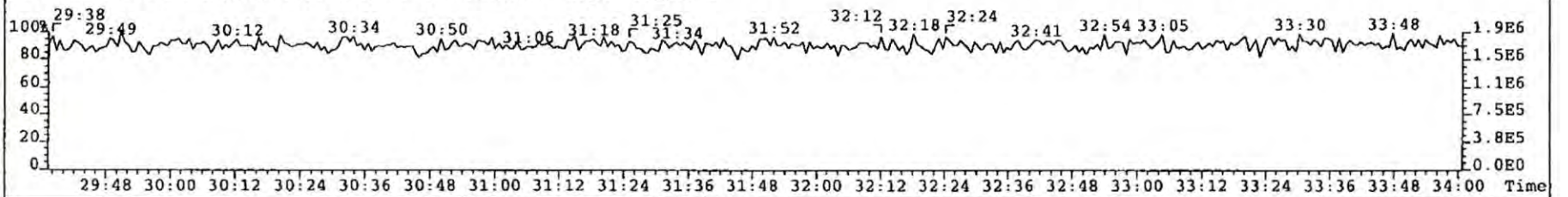
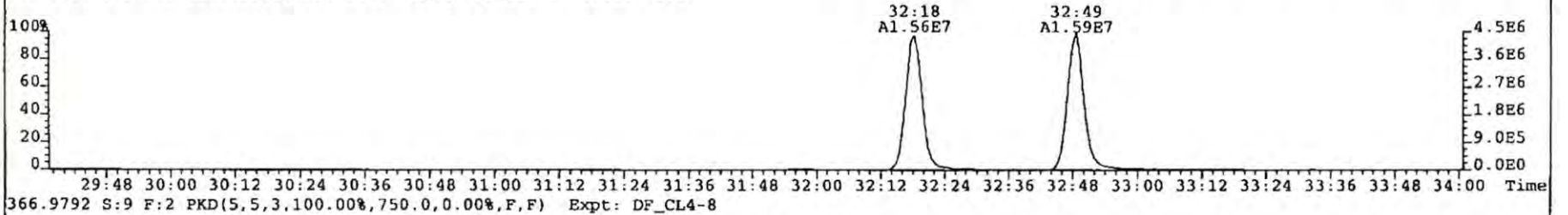
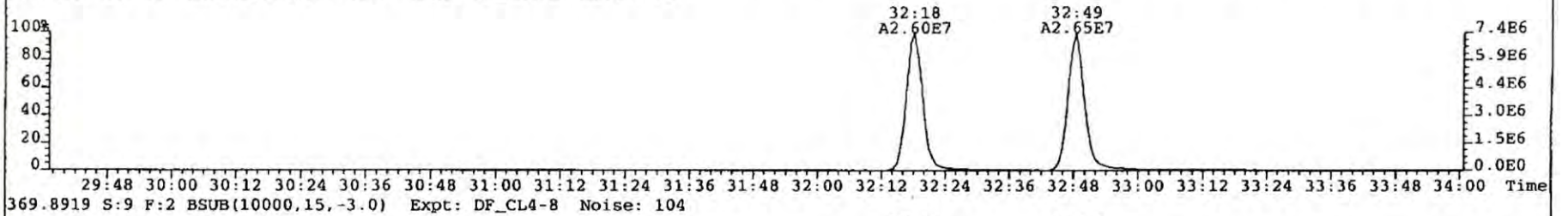
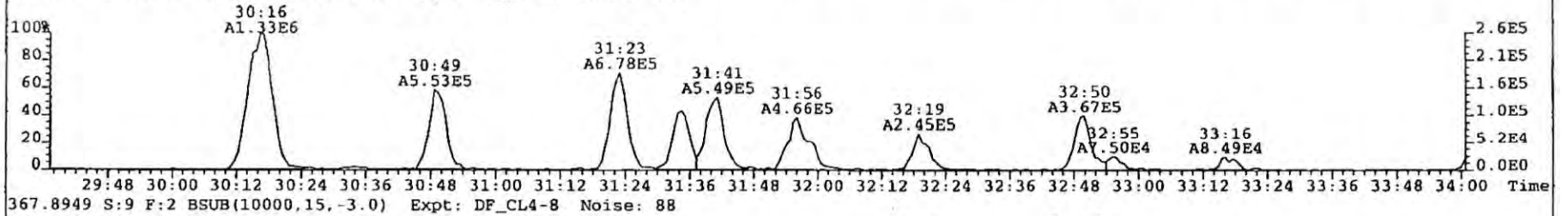
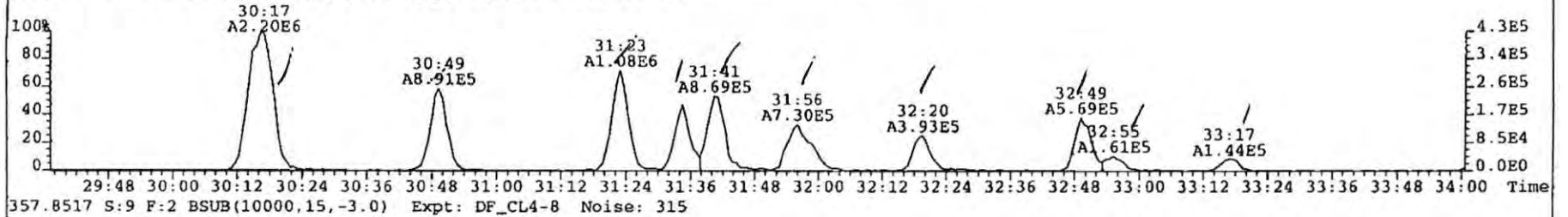


333.9339 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 105



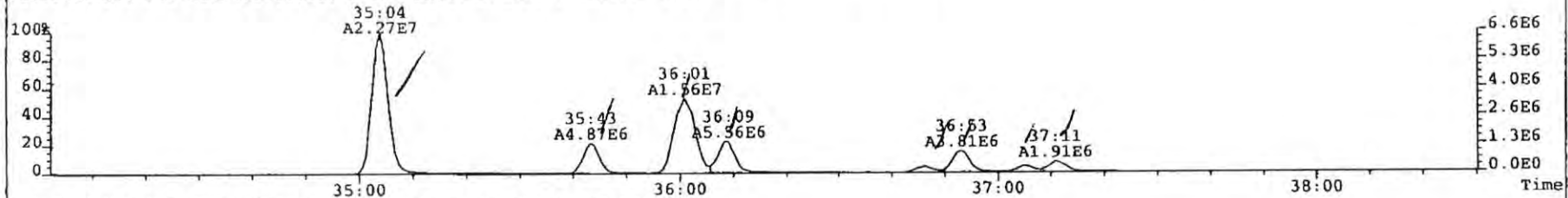


File: 090325P1 Acq: 25-MAR-2009 21:01:10 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 9 Text: P1193\_6679\_005 PO-UP-20-SS-A-090313 10.07g Vial# 22 File Text: AP DB5  
355.8546 S:9 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 497

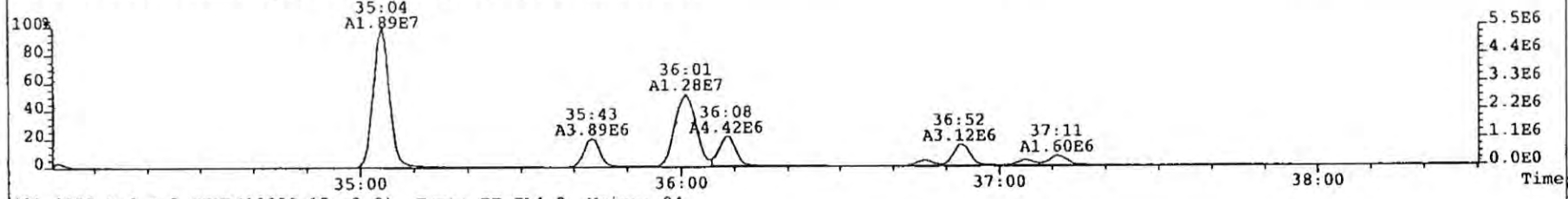




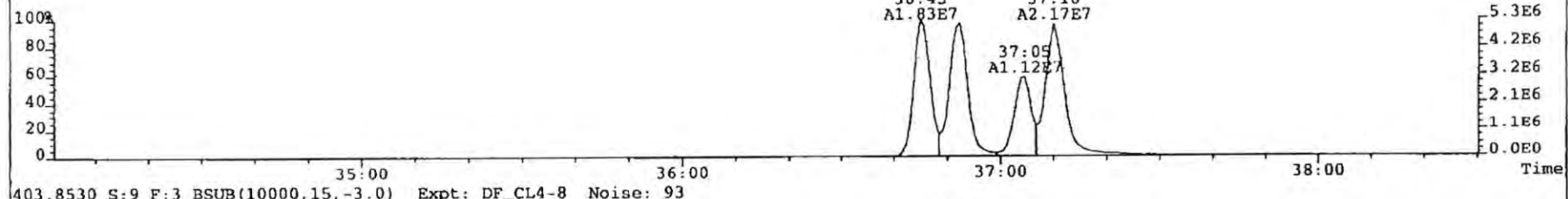
File: 090325P1 Acq: 25-MAR-2009 21:01:10 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 9 Text: P1193\_6679\_005 PO-UP-20-SS-A-090313 10.07g Vial# 22 File Text: AP DB5  
389.8156 S:9 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1986



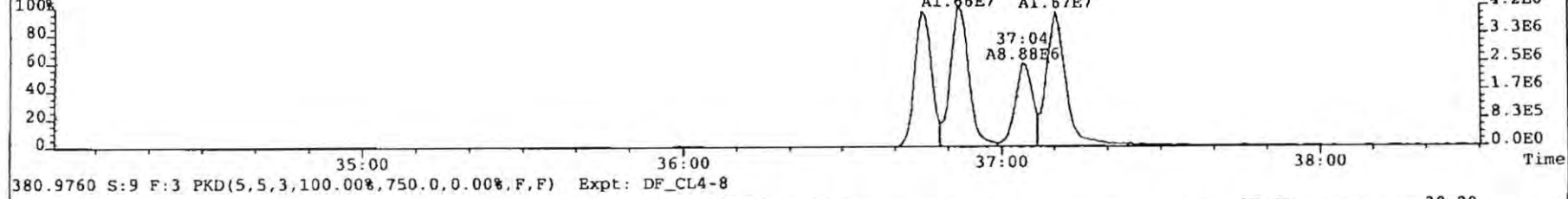
391.8127 S:9 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1709



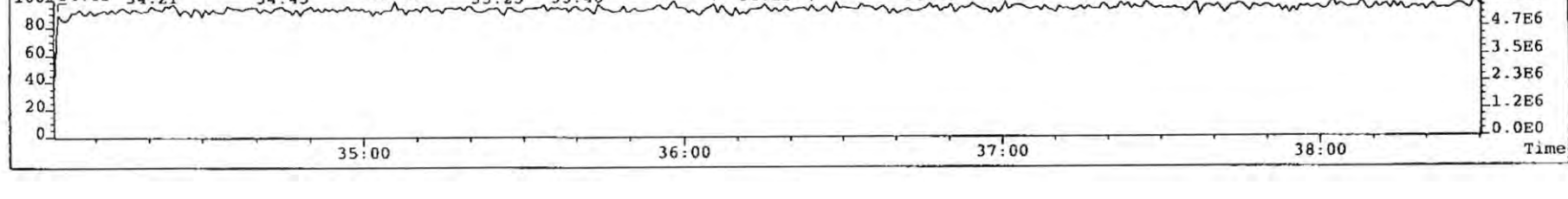
401.8559 S:9 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 94



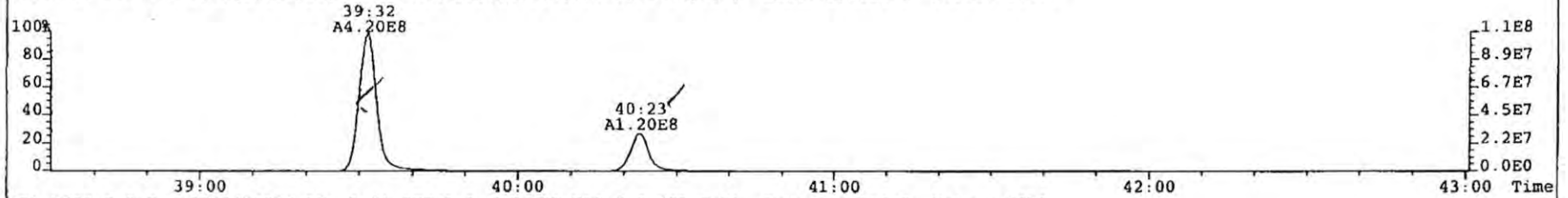
403.8530 S:9 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 93



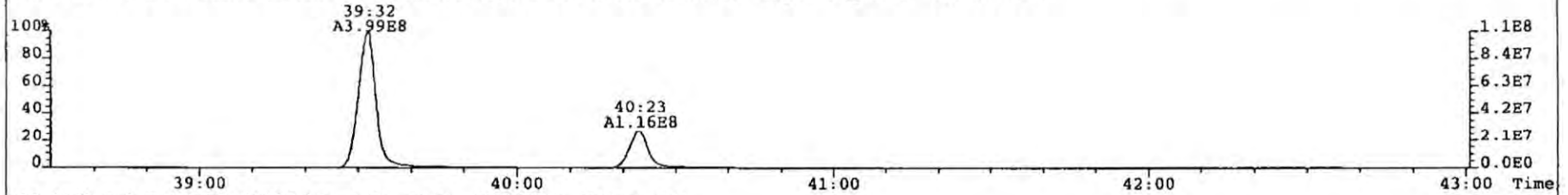
380.9760 S:9 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



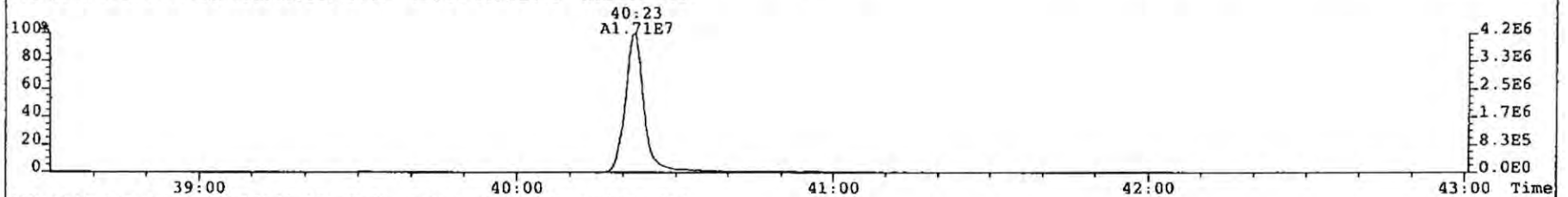
File: 090325P1 Acq: 25-MAR-2009 21:01:10 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 9 Text: P1193\_6679\_005 PO-UP-20-SS-A-090313 10.07g Vial# 22 File Text: AP DB5  
423.7767 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 10485



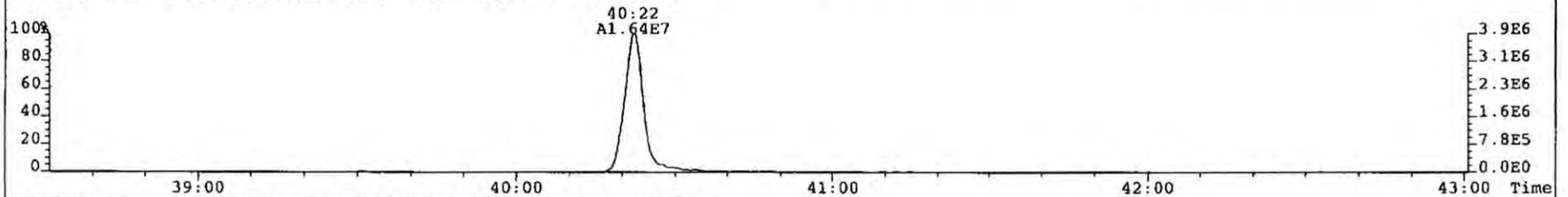
425.7737 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 8676



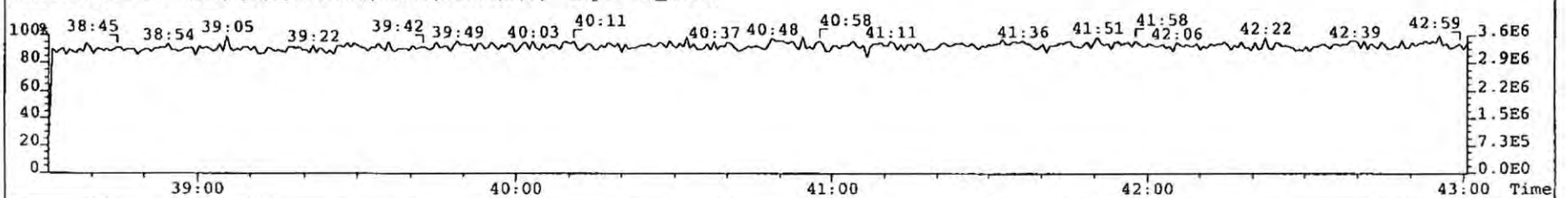
435.8169 S:9 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 665



437.8140 S:9 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 917

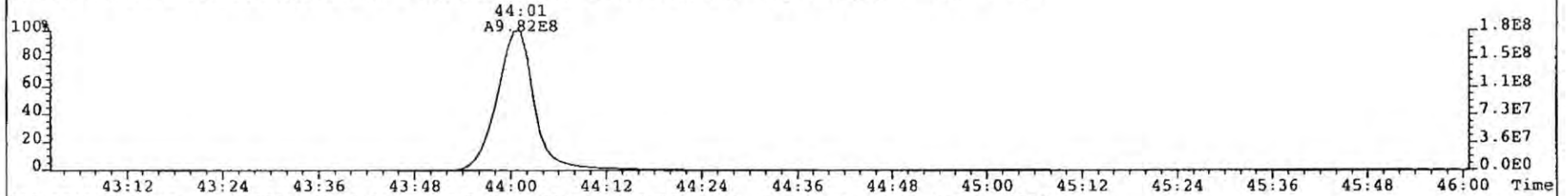


430.9728 S:9 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

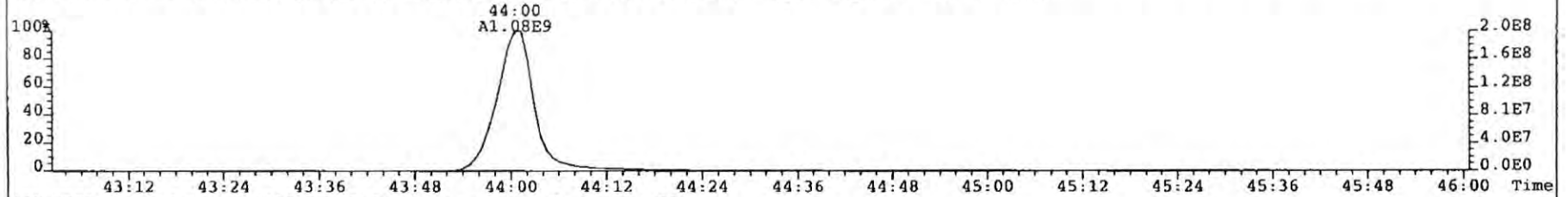




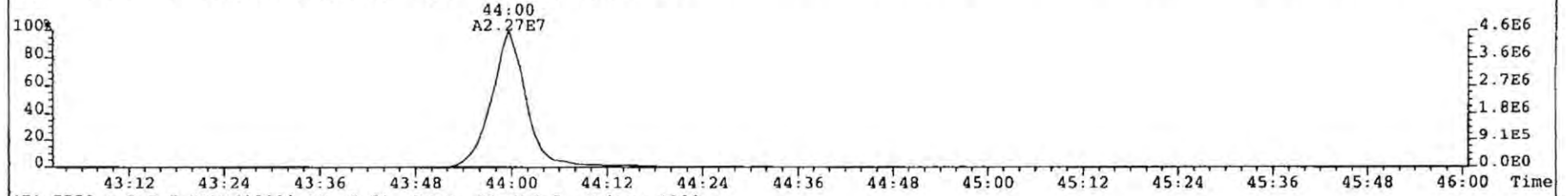
File: 090325PI Acq: 25-MAR-2009 21:01:10 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 9 Text: P1193\_6679\_005 PO-UP-20-SS-A-090313 10.07g Vial# 22 File Text: AP DB5  
457.7377 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 7746



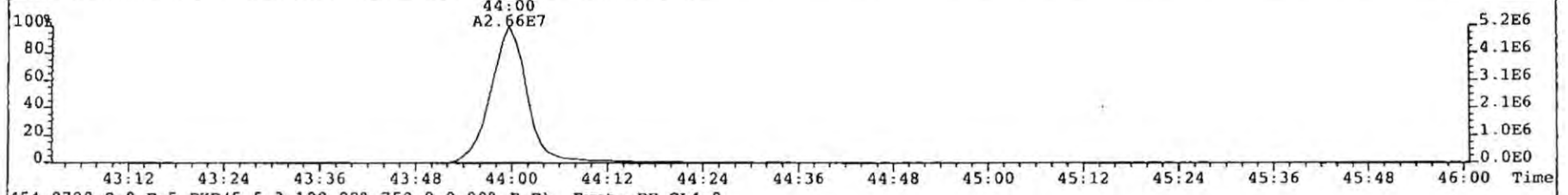
459.7348 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 8706



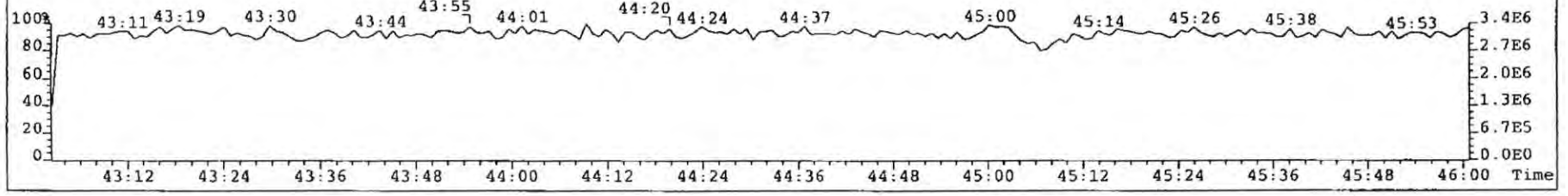
469.7780 S:9 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 721



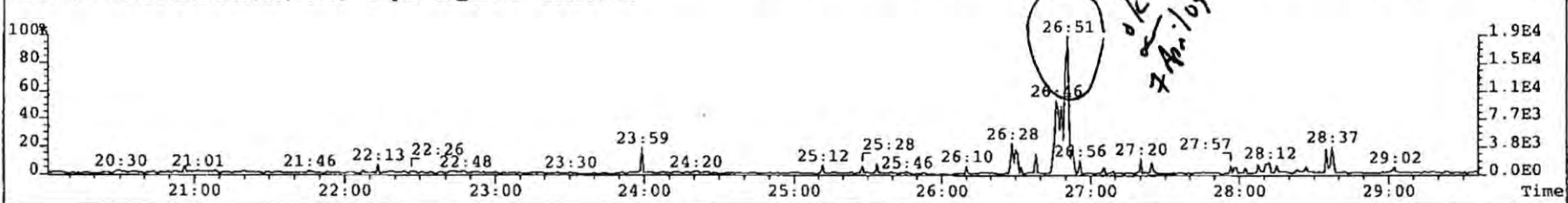
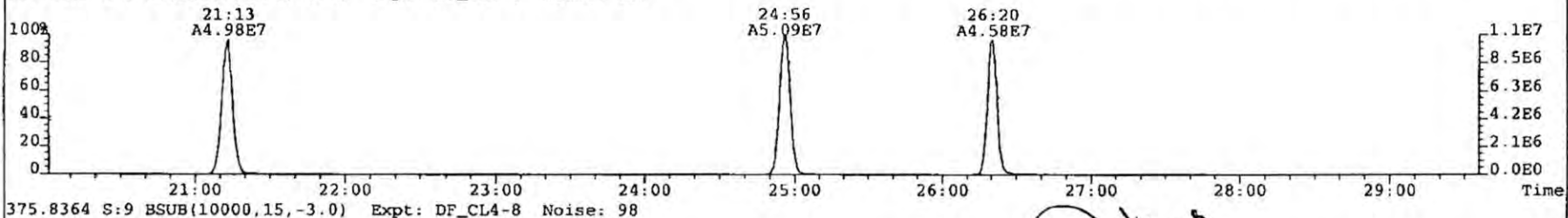
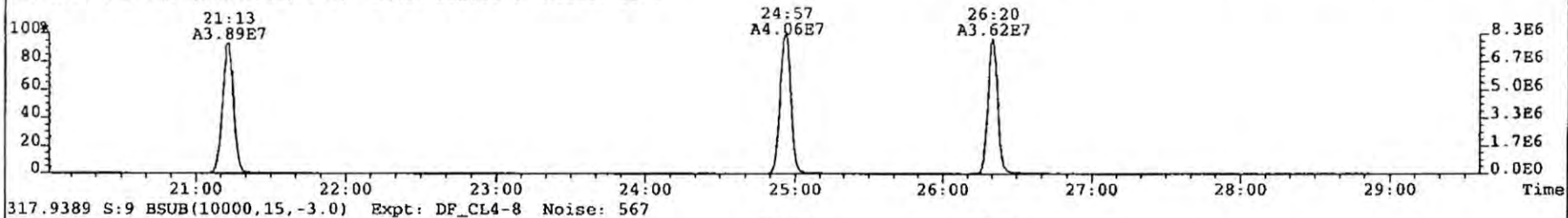
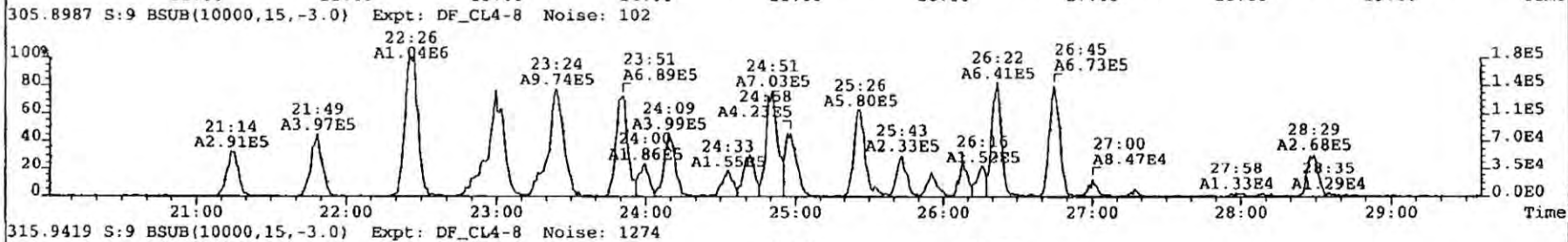
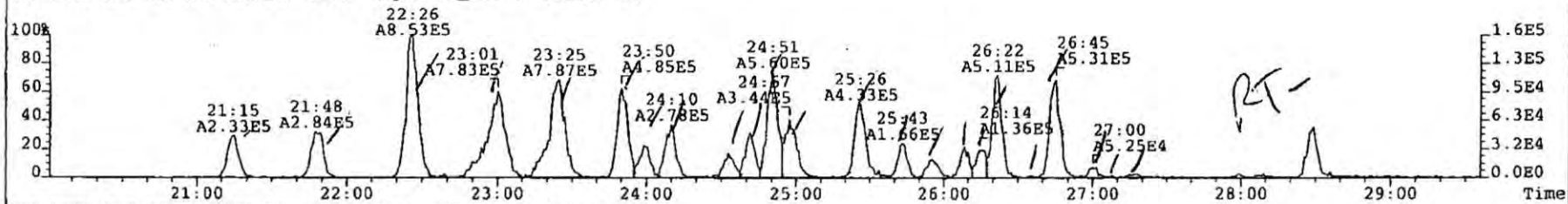
471.7750 S:9 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1308



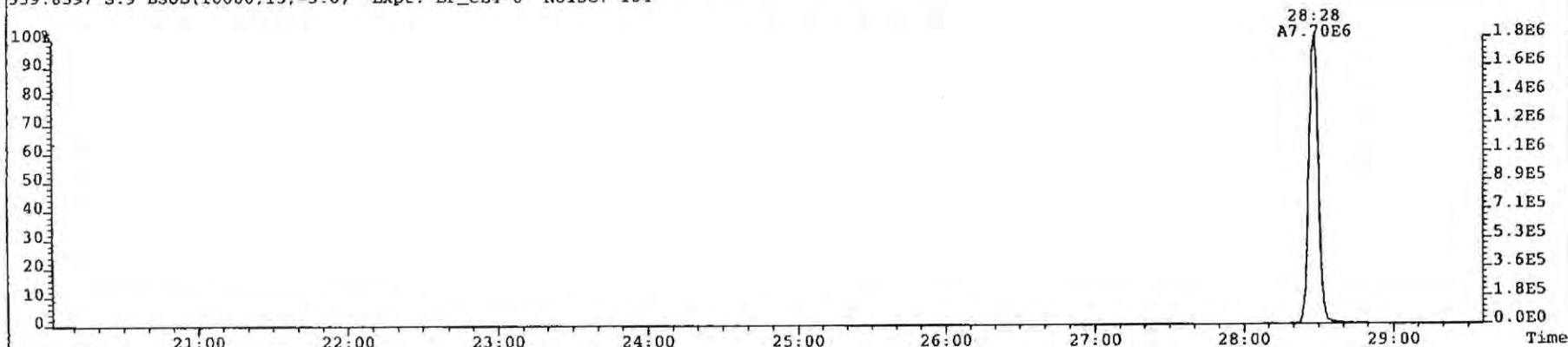
454.9728 S:9 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



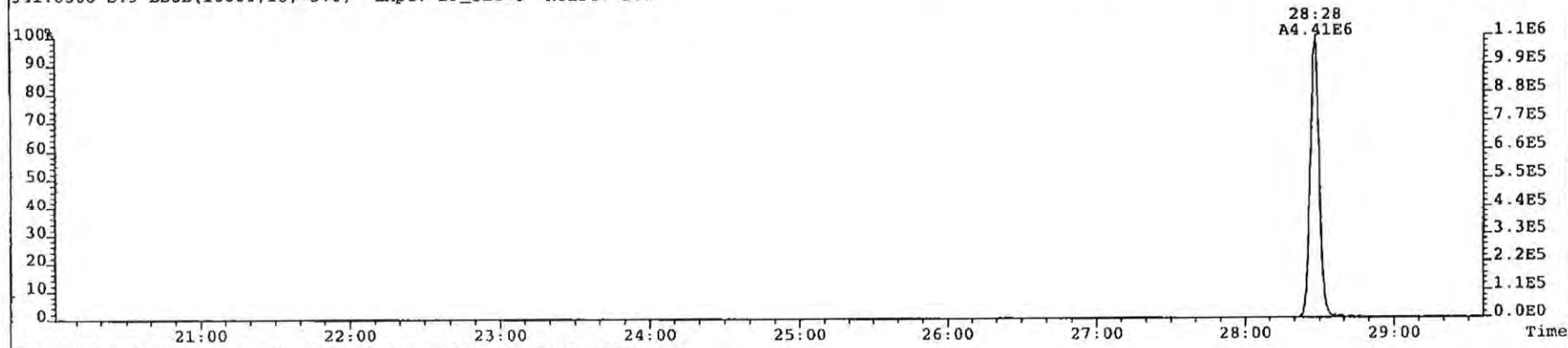
File: 090325P1 Acq: 25-MAR-2009 21:01:10 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 9 Text: P1193\_6679\_005 PO-UP-20-SS-A-090313 10.07g Vial# 22 File Text: AP DB5  
303.9016 S:9 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 92



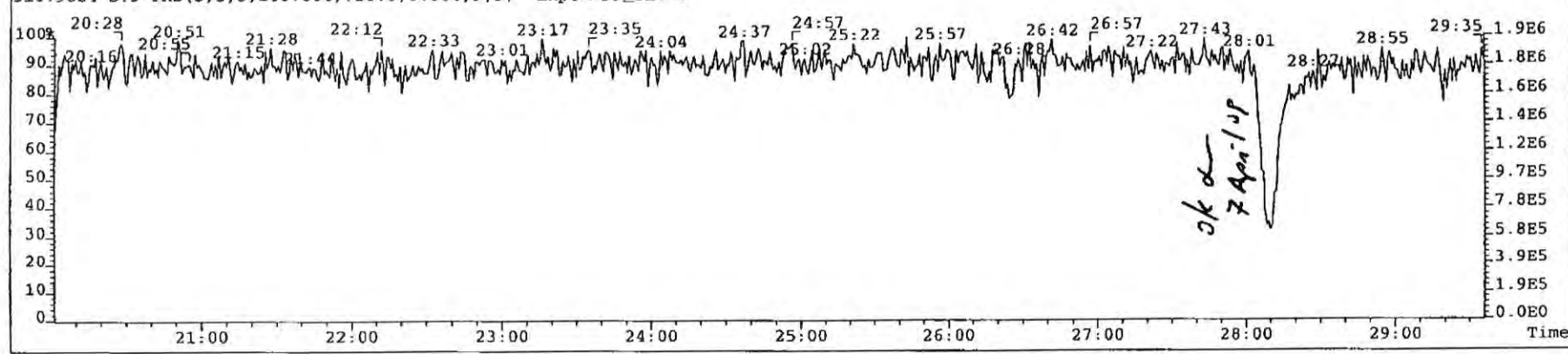
File: 090325P1 Acq: 25-MAR-2009 21:01:10 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 9 Text: P1193\_6679\_005 PO-UP-20-SS-A-090313 10.07g Vial# 22 File Text: AP DBS  
339.8597 S:9 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 104



341.8568 S:9 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 104

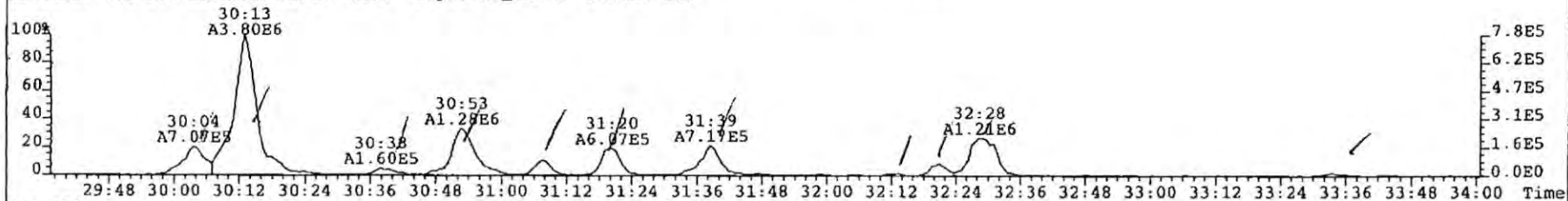


316.9824 S:9 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

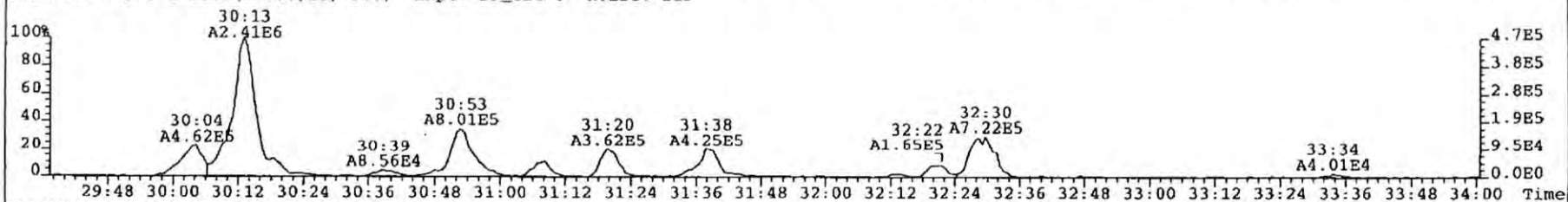




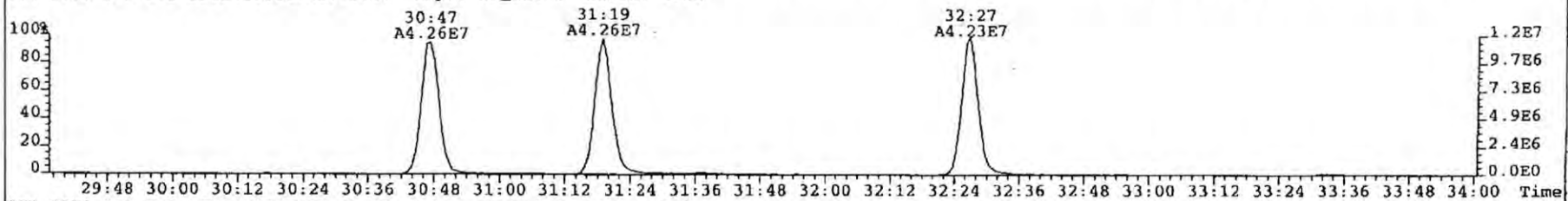
File: 090325P1 Acq: 25-MAR-2009 21:01:10 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 9 Text: P1193\_6679\_005 PO-UP-20-SS-A-090313 10.07g Vial# 22 File Text: AP DB5  
339.8597 S:9 F:2 BSub(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 500



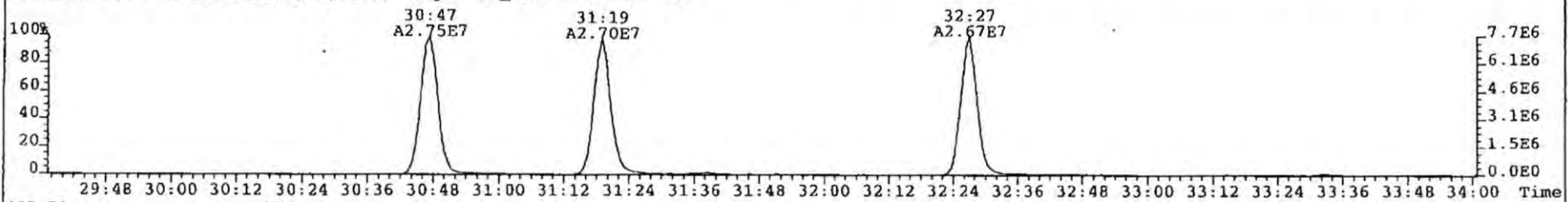
341.8568 S:9 F:2 BSub(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 219



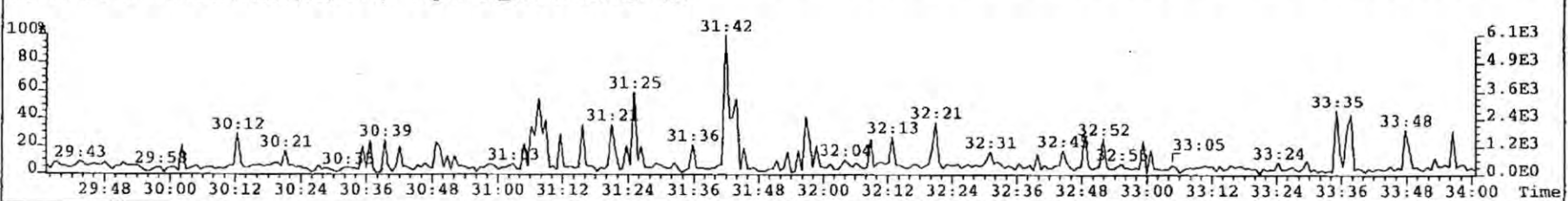
351.9000 S:9 F:2 BSub(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 5285



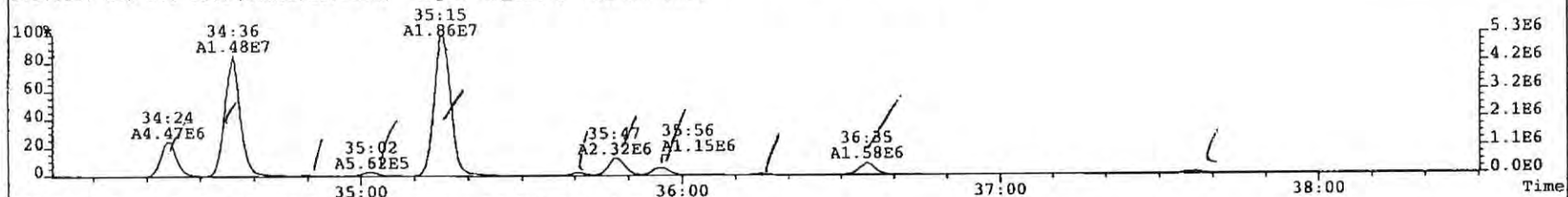
353.8970 S:9 F:2 BSub(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 740



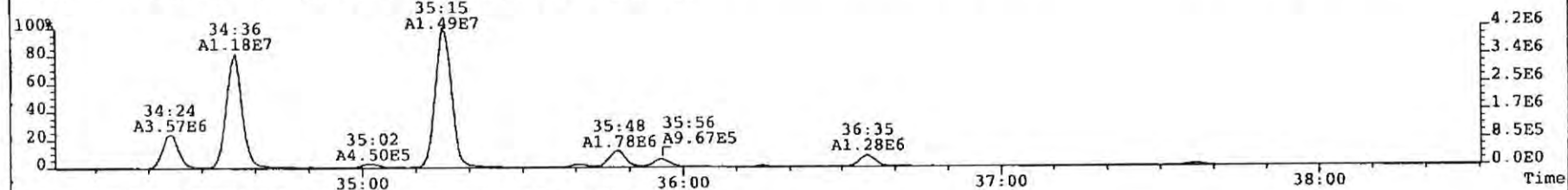
409.7974 S:9 F:2 BSub(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 100



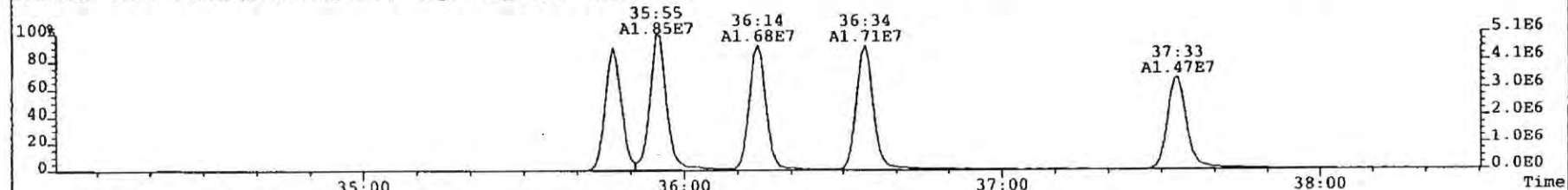
File: 090325P1 Acq: 25-MAR-2009 21:01:10 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 9 Text: P1193\_6679\_005 PO-UP-20-SS-A-090313 10.07g Vial# 22 File Text: AP DB5  
373.8207 S:9 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1145



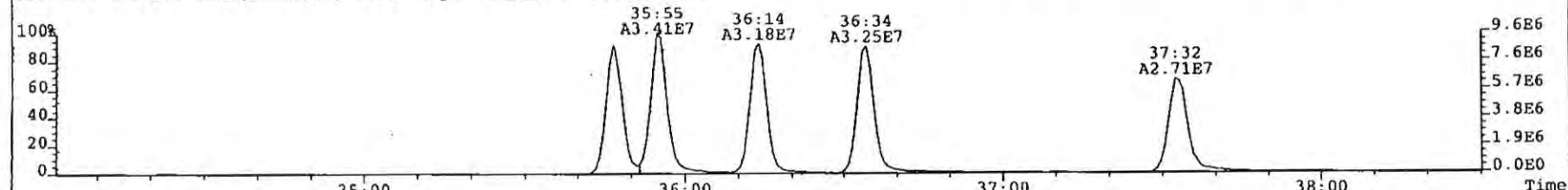
375.8178 S:9 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 890



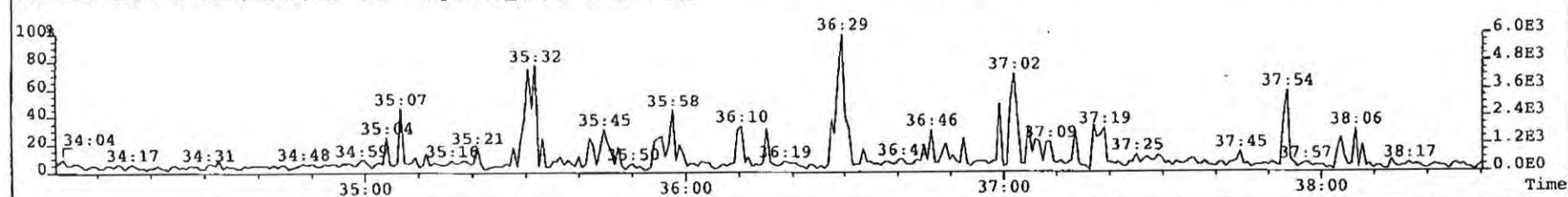
383.8639 S:9 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 553



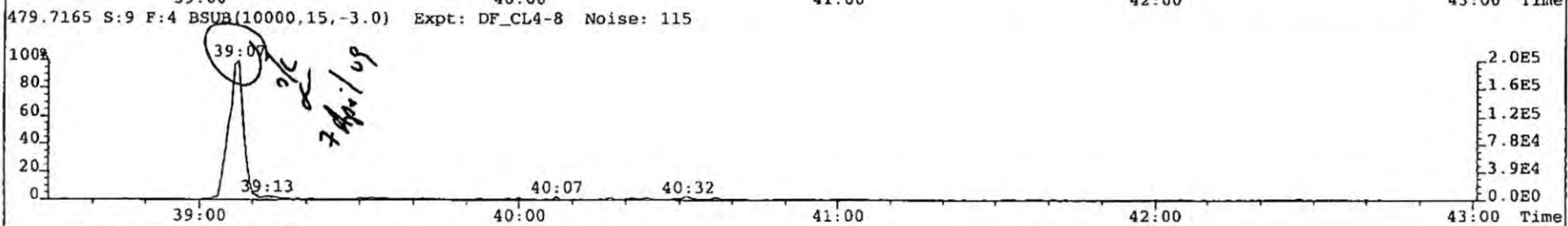
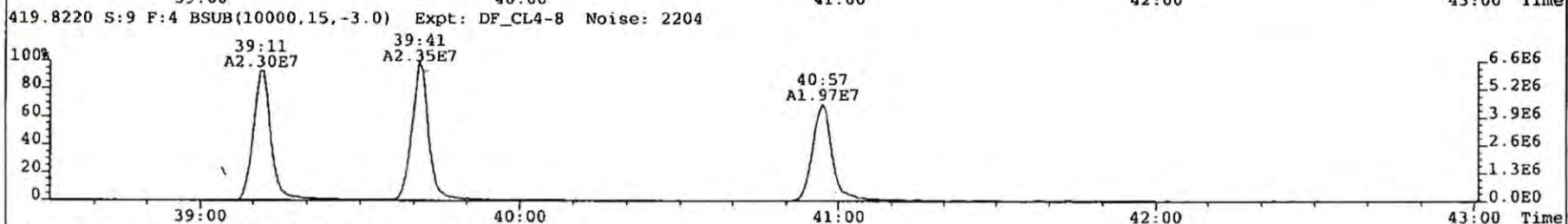
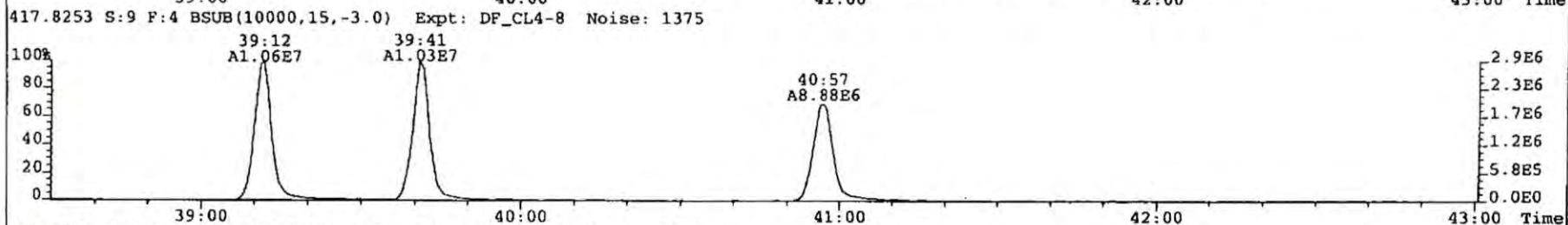
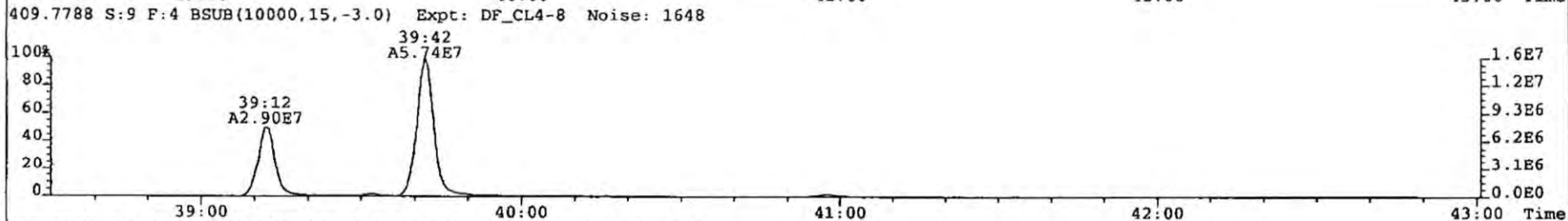
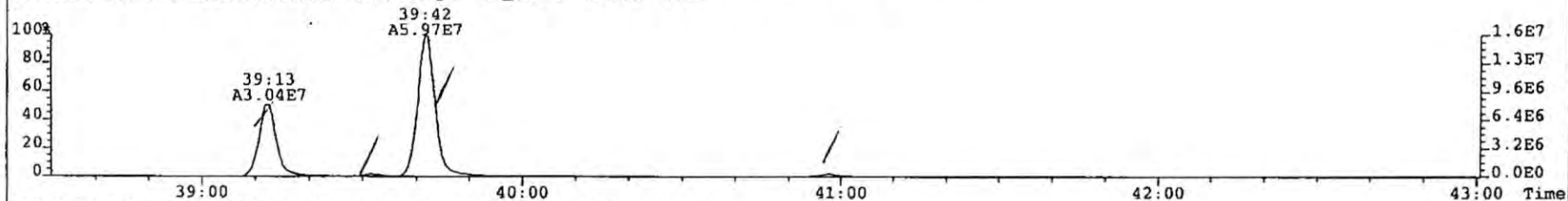
385.8610 S:9 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 2844



445.7555 S:9 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 102

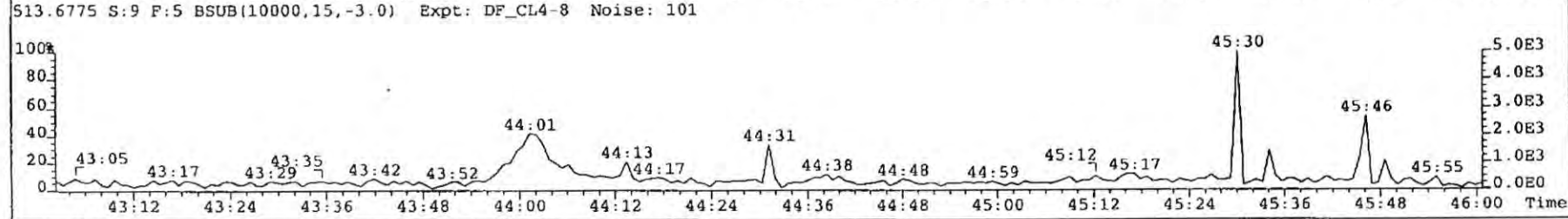
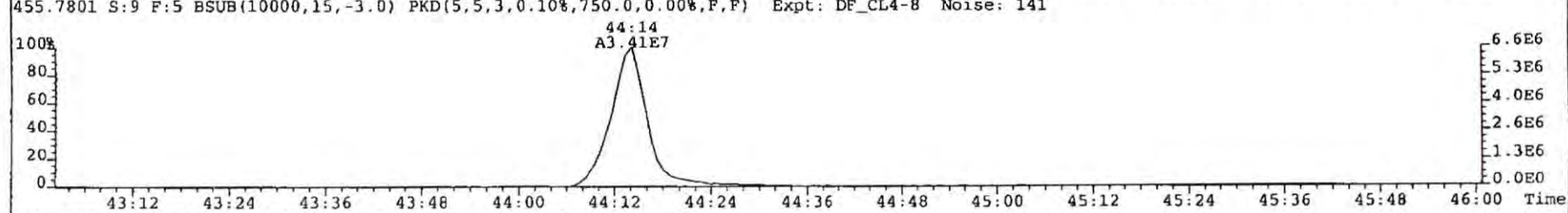
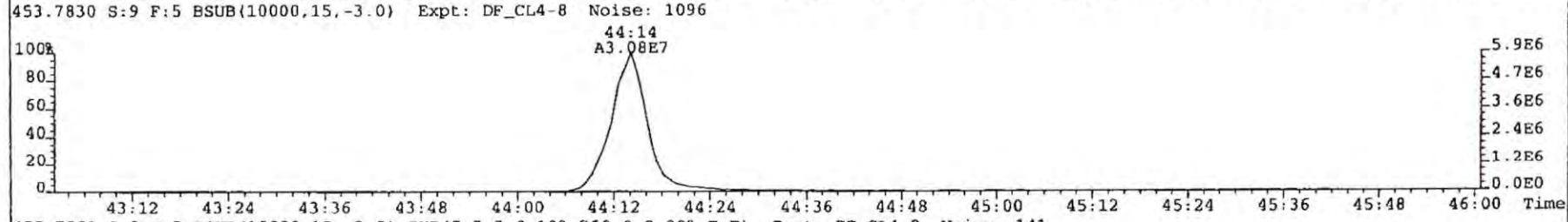
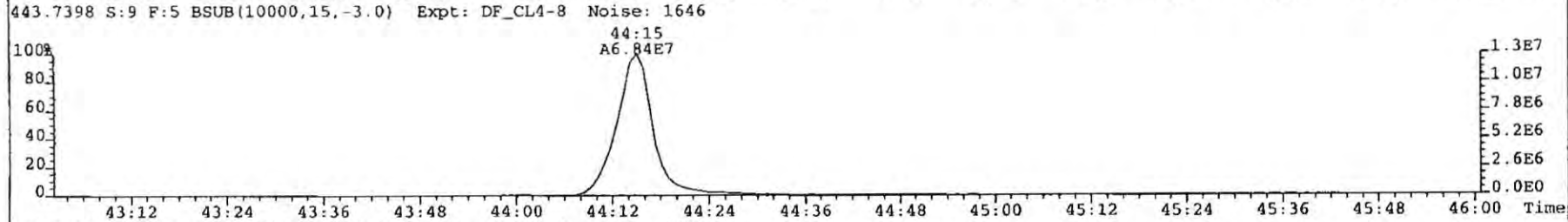
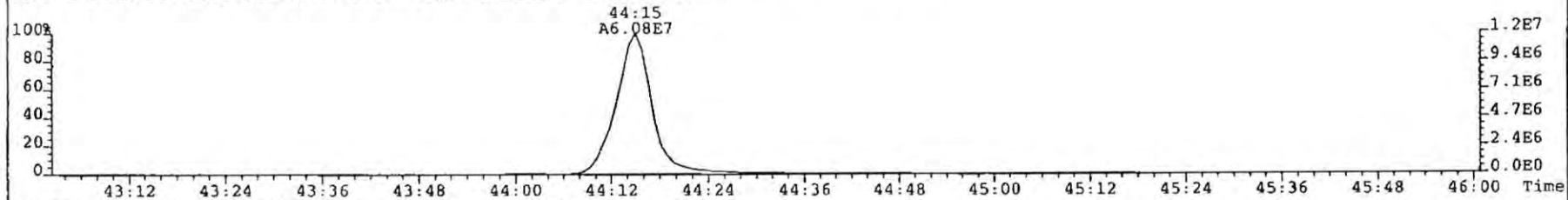


File: 090325P1 Acq: 25-MAR-2009 21:01:10 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 9 Text: P1193\_6679\_005 PO-UP-20-SS-A-090313 10.07g Vial# 22 File Text: AP DB5  
407.7818 S:9 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1474





File: 090325P1 Acq: 25-MAR-2009 21:01:10 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 9 Text: P1193\_6679\_005 PO-UP-20-SS-A-090313 10.07g Vial# 22 File Text: AP DB5  
441.7428 S:9 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 545



1613/8290 Sample Summary

Analytical Perspectives

[Form: DF]

Client ID: PO-UP-21-SS-A-090313  
Lab ID: P1193\_6679\_006  
Sample text: P1193\_6679\_006 PO-UP-21-SS-A-090313 10.2g

Filename: 090325P1  
GC column ID: db-5

S: 10 Vial: 23 Acq: 25-MAR-09 21:51:19  
Cal: MMI\_DF\_07012007A\_25DEC08WT/Vol: 10.16  
Stds: JS (split adj.): 2000 CS/SS: 800 PS: 2000

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	2.52e+05	0.76 y	27:17	1.08	0.756	2386	2.5	0.132	-
Ax	1,2,3,7,8-PeCDD	8.70e+05	1.55 y	32:50	1.00	3.51	3633	2.5	0.352	-
Ax	1,2,3,4,7,8-HxCDD	2.09e+06	1.15 y	36:46	1.08	10.3	12181	2.5	1.21	-
Ax	1,2,3,6,7,8-HxCDD	8.45e+06	1.23 y	36:53	0.94	40.8	12181	2.5	1.26	-
Ax	1,2,3,7,8,9-HxCDD	3.93e+06	1.30 y	37:12	0.99	18.0	12181	2.5	1.33	-
Ax	1,2,3,4,6,7,8-HpCDD	3.84e+08	1.04 y	40:24	0.97	1990	38389	2.5	4.21	-
Ax	OCDD	3.53e+09	0.88 y	44:02	1.06	23100	172159	2.5	25.9	-
Ax2	OCDD-a	2.14e+08	2.53 y	44:01	0.06	23400	22362	2.5	56.3	-
Ax	2,3,7,8-TCDF	1.15e+06	0.76 y	26:21	1.05	2.39	1064	2.5	0.0444	-
Ax	1,2,3,7,8-PeCDF	9.01e+05	1.49 y	31:20	0.98	2.36	2062	2.5	0.127	-
Ax	2,3,4,7,8-PeCDF	2.09e+06	1.55 y	32:29	1.01	5.25	2062	2.5	0.116	-
Ax	1,2,3,4,7,8-HxCDF	4.45e+06	1.22 y	35:48	1.22	14.1	3853	2.5	0.163	-
Ax	1,2,3,6,7,8-HxCDF	2.13e+06	1.25 y	35:56	1.15	6.24	3853	2.5	0.165	-
Ax	2,3,4,6,7,8-HxCDF	3.03e+06	1.22 y	36:35	1.13	9.46	3853	2.5	0.177	-
Ax	1,2,3,7,8,9-HxCDF	7.02e+05	1.30 y	37:36	1.12	2.62	3853	2.5	0.230	-
Ax	1,2,3,4,6,7,8-HpCDF	6.75e+07	1.05 y	39:13	1.37	258	9610	2.5	0.469	-
Ax	1,2,3,4,7,8,9-HpCDF	2.58e+06	1.07 y	40:58	1.32	11.9	9610	2.5	0.667	-
Ax	OCDF	1.62e+08	0.90 y	44:16	0.94	869	18938	2.5	2.47	-
Ax2	OCDF-a	9.35e+06	2.57 y	44:15	0.05	889	4129	2.5	9.57	-
ES	13C-2,3,7,8-TCDD	6.05e+07	0.82 y	27:16	0.99	167	2657	2.5	0.144	84.8
ES	13C-1,2,3,7,8-PeCDD	4.89e+07	1.64 y	32:49	0.83	161	6542	2.5	0.420	81.6
ES	13C-1,2,3,4,7,8-HxCDD	3.69e+07	1.28 y	36:45	1.08	145	12859	2.5	1.11	73.7
ES	13C-1,2,3,6,7,8-HxCDD	4.32e+07	1.25 y	36:52	1.23	150	12859	2.5	0.981	76.2
ES	13C-1,2,3,7,8,9-HxCDD	4.34e+07	1.25 y	37:11	1.21	153	12859	2.5	0.993	77.5
ES	13C-1,2,3,4,6,7,8-HpCDD	3.91e+07	1.03 y	40:23	0.98	170	7107	2.5	0.675	86.1
ES	13C-OCDD	5.68e+07	0.86 y	44:00	0.66	367	9041	2.5	1.28	93.2
ES	13C-2,3,7,8-TCDF	9.02e+07	0.80 y	26:20	0.96	189	2602	2.5	0.116	96.0
ES	13C-1,2,3,7,8-PeCDF	7.63e+07	1.54 y	31:20	0.85	179	14962	2.5	0.746	91.0
ES	13C-2,3,4,7,8-PeCDF	7.73e+07	1.56 y	32:27	0.88	175	14962	2.5	0.720	89.0
ES	13C-1,2,3,4,7,8-HxCDF	5.10e+07	0.53 y	35:47	1.47	147	27440	2.5	1.74	74.8
ES	13C-1,2,3,6,7,8-HxCDF	5.85e+07	0.54 y	35:55	1.78	140	27440	2.5	1.44	71.3
ES	13C-2,3,4,6,7,8-HxCDF	5.58e+07	0.53 y	36:35	1.61	148	27440	2.5	1.59	75.1
ES	13C-1,2,3,7,8,9-HxCDF	4.73e+07	0.53 y	37:33	1.40	144	27440	2.5	1.83	73.1
ES	13C-1,2,3,4,6,7,8-HpCDF	3.76e+07	0.45 y	39:12	1.16	138	12859	2.5	1.04	70.2
ES	13C-1,2,3,4,7,8,9-HpCDF	3.24e+07	0.45 y	40:57	0.92	150	12859	2.5	1.30	76.0
ES	13C-OCDF	7.84e+07	0.91 y	44:15	1.04	322	21408	2.5	1.93	81.7
CS	37Cl-2,3,7,8-TCDD	2.45e+07	*	27:17	0.99	67.9			1.19	86.3
CS	13C-1,2,3,4,7-PeCDD	4.37e+07	1.67 y	32:19	0.77	156	6542	2.5	0.456	79.0
CS	13C-1,2,3,4,6-PeCDF	7.31e+07	1.55 y	30:48	0.79	185	14962	2.5	0.802	93.8
CS	13C-1,2,3,4,6,9-HxCDF	5.32e+07	0.53 y	36:14	1.41	160	27440	2.5	1.82	81.5
CS	13C-1,2,3,4,6,8,9-HpCDF	3.69e+07	0.45 y	39:42	0.91	173	12859	2.5	1.32	87.7
NA	n/a	*	* n	NotF	Div0	*	156	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	7.18e+07	0.82 y	26:36	-	20.2	2657	2.5	-	-
JS	13C-1,2,3,4-TCDF	9.82e+07	0.78 y	24:57	-	17.4	2602	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	2.31e+07	1.36 y	37:04	-	10.4	1890	2.5	-	-

ok

7 April 09

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Analyst: *[Signature]*  
Date: *[Signature]*

7 April 09

SS	37Cl-2,3,7,8-TCDD	2.45e+07		27:17	1.00	79.6			1.30	101
SS	13C-1,2,3,4,7-PeCDD	4.37e+07	1.67 y	32:19	0.93	189	6542	2.5	0.682	96.3
SS	13C-1,2,3,4,6-PeCDF	7.31e+07	1.55 y	30:48	0.94	201	14962	2.5	0.967	102
SS	13C-1,2,3,4,6,9-HxCDF	5.32e+07	0.53 y	36:14	0.80	223	27440	2.5	1.69	113
SS	13C-1,2,3,4,6,8,9-HpCDF	3.69e+07	0.45 y	39:42	0.79	244	12859	2.5	1.08	124
SBS	2,4,6,8-TCDF	1.92e+06	0.80 y	22:26	1.05	4.01	1064	2.5	0.0444	-
Ay	1,3,6,8-TCDD	2.16e+06	0.80 y	23:26	1.08	6.47	2386	2.5	0.132	-
Ay	1,2,3,9-TCDD	6.73e+04	0.90 m	27:08	1.08	0.202	2386	2.5	0.132	-
Ay	1,2,8,9-TCDD	*	n	NotF*	1.08	*	2386	2.5	0.132	-
Ay	1,2,4,7,9-PeCDD	3.53e+06	1.61 y	30:17	1.00	14.2	3633	2.5	0.352	-
Ay	1,2,3,8,9-PeCDD	2.42e+05	1.52 y	33:17	1.00	0.977	3633	2.5	0.352	-
Ay	1,2,4,6,7,9-HxCDD	7.96e+07	1.22 y	35:04	1.00	380	12181	2.5	1.27	-
Ay	1,2,3,4,6,7,9-HpCDD	1.79e+09	1.05 y	39:32	0.97	9240	38389	2.5	4.21	-
Ay	1,3,6,8-TCDF	5.42e+05	0.83 y	21:17	1.05	1.13	1064	2.5	0.0444	-
Ay	2,3,4,8-TCDF	2.33e+05	0.99 m	26:14	1.05	0.487	1064	2.5	0.0444	-
Ay	1,2,8,9-TCDF	*	n	NotF*	1.05	*	1064	2.5	0.0444	-
Ay	1,3,4,6,8-PeCDF	1.23e+07	1.72 y	28:29	1.05	25.6	1929	2.5	0.0805	-
Ay	1,2,3,8,9-PeCDF	1.15e+05	1.48 y	33:34	1.00	0.295	2062	2.5	0.121	-
Ay	1,2,3,4,6,8-HxCDF	8.64e+06	1.27 y	34:24	1.15	27.7	3853	2.5	0.181	-
Tot	Total Tetra-Dioxins	6.26e+06	0.80 y	23:26	1.08	18.8	2386	2.5	0.132	-
Tot	Total Penta-Dioxins	1.30e+07	1.61 y	30:17	1.00	52.5	3633	2.5	0.352	-
Tot	Total Hexa-Dioxins	1.80e+08	1.22 y	35:04	1.00	860	12181	2.5	1.27	-
Tot	Total Hepta-Dioxins	2.17e+09	1.05 y	39:32	0.97	11200	38389	2.5	4.21	-
Tot	Total Tetra-Furans	1.56e+07	0.83 y	21:17	1.05	32.5	1064	2.5	0.0444	-
Tot	Total Penta-Furans	1.50e+07	1.73 y	30:05	1.00	38.4	2062	2.5	0.121	-
Tot	Total Hexa-Furans	8.96e+07	1.27 y	34:24	1.15	287	3853	2.5	0.181	-
Tot	Total Hepta-Furans	2.16e+08	1.05 y	39:13	1.35	879	9610	2.5	0.558	-
Tot	TCDD EMPC	6.93e+06	0.80 y	23:26	1.08	20.8	2386	2.5	0.132	-
Tot	PeCDD EMPC	1.30e+07	1.61 y	30:17	1.00	52.5	3633	2.5	0.352	-
Tot	HxCDD EMPC	1.80e+08	1.22 y	35:04	1.00	860	12181	2.5	1.27	-
Tot	HpCDD EMPC	2.17e+09	1.05 y	39:32	0.97	11200	38389	2.5	4.21	-
Tot	TCDF EMPC	1.65e+07	0.83 y	21:17	1.05	34.5	1064	2.5	0.0444	-
Tot	PeCDF EMPC	1.50e+07	1.73 y	30:05	1.00	38.4	2062	2.5	0.121	-
Tot	HxCDF EMPC	9.00e+07	1.27 y	34:24	1.15	288	3853	2.5	0.181	-
Tot	HpCDF EMPC	2.16e+08	1.05 y	39:13	1.35	879	9610	2.5	0.558	-
AS	13C-1,3,6,8-TCDD	5.81e+07	0.83 y	23:24	1.09	146	2657	2.5	0.131	74.4
AS	13C-1,3,6,8-TCDF	1.02e+08	0.78 y	21:15	1.09	188	2602	2.5	0.102	95.4
DPE	HxCdPE	*		NotF*	-	*	-	-	-	-
DPE	HpCdPE	*		NotF*	-	*	-	-	-	-
DPE	OCdPE	*		NotF*	-	*	-	-	-	-
DPE	NCdPE	*		NotF*	-	*	-	-	-	-
DPE	DCdPE	*		NotF*	-	*	-	-	-	-
LMC	Fn1 check mass	*		NotF*	-	*	-	-	-	-
LMC	Fn2 check mass	*		NotF*	-	*	-	-	-	-
LMC	Fn3 check mass	*		NotF*	-	*	-	-	-	-
LMC	Fn4 check mass	*		NotF*	-	*	-	-	-	-
LMC	Fn5 check mass	*		NotF*	-	*	-	-	-	-



Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDD EMPC Function: 1 Run #: 17 Checkcode: 1387  
 File Name: 090325P1 Sample #: 10 Sample text: P1193\_6679\_006 PO-UP-21-SS-A-090313 10.»

Acquired: 25-MAR-09 21:51:19 Processed: 26-MAR-09 08:40:43

Total Conc.: 20.813 Unnamed Conc.: 13.384 Homolog count: 16

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
23:26	9.567e+05	n	1.199e+06	n	0.80	y	2.155e+06	2.155e+06	9.36e+01	y	6.47	1,3,6,8-TCDD
23:49	5.569e+05	n	7.571e+05	n	0.74	y	1.314e+06	1.314e+06	6.42e+01	y	3.94	
24:17	9.099e+04	n	1.200e+05	n	0.76	y	2.110e+05	2.110e+05	1.00e+01	y	0.633	
25:06	9.847e+04	n	1.373e+05	n	0.72	y	2.357e+05	2.357e+05	1.10e+01	y	0.708	
25:21	1.618e+05	y	2.312e+05	y	0.70	y	3.931e+05	3.931e+05	1.92e+01	y	1.18	
25:33	2.323e+05	y	2.543e+05	n	0.91	n	4.866e+05	4.501e+05	2.36e+01	y	1.35	
25:46	7.304e+04	n	8.550e+04	y	0.85	y	1.585e+05	1.585e+05	6.61e+00	y	0.476	
26:01	3.622e+04	n	4.244e+04	y	0.85	y	7.866e+04	7.866e+04	5.83e+00	y	0.236	
26:12	7.455e+04	y	9.379e+04	n	0.79	y	1.683e+05	1.683e+05	9.73e+00	y	0.505	
26:37	1.586e+05	y	1.984e+05	y	0.80	y	3.570e+05	3.570e+05	1.59e+01	y	1.07	
26:44	1.785e+04	y	2.000e+04	y	0.89	n	3.785e+04	3.540e+04	2.40e+00	n	0.106	
27:00	3.920e+05	y	5.045e+05	y	0.78	y	8.965e+05	8.965e+05	4.35e+01	y	2.69	
27:08	3.417e+04	y	3.800e+04	y	0.90	n	7.217e+04	6.726e+04	4.51e+00	y	0.202	1,2,3,9-TCDD
27:17	1.092e+05	y	1.428e+05	y	0.76	y	2.520e+05	2.520e+05	1.37e+01	y	0.756	2,3,7,8-TCDD
27:38	6.811e+04	y	6.950e+04	y	0.98	n	1.376e+05	1.230e+05	7.66e+00	y	0.369	
27:46	1.673e+04	y	2.035e+04	y	0.82	y	3.708e+04	3.708e+04	2.68e+00	y	0.111	

Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDD EMPC Function: 2 Run #: 17 Checkcode: 1387  
 File Name: 090325P1 Sample #: 10 Sample text: P1193\_6679\_006 PO-UP-21-SS-A-090313 10.»

Acquired: 25-MAR-09 21:51:19 Processed: 26-MAR-09 08:40:43

Total Conc.: 52.536 Unnamed Conc.: 33.847 Homolog count: 10

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
30:17	2.173e+06	n	1.353e+06	n	1.61	y	3.526e+06	3.526e+06	7.35e+01	y	14.2	1,2,4,7,9-PeCDD
30:50	1.325e+06	n	7.875e+05	n	1.68	y	2.113e+06	2.113e+06	6.28e+01	y	8.51	
31:23	9.992e+05	n	6.327e+05	n	1.58	y	1.632e+06	1.632e+06	4.75e+01	y	6.58	
31:34	6.505e+05	n	3.901e+05	n	1.67	y	1.041e+06	1.041e+06	3.14e+01	y	4.19	
31:41	7.702e+05	n	4.792e+05	n	1.61	y	1.249e+06	1.249e+06	3.78e+01	y	5.03	
31:57	8.838e+05	n	5.840e+05	n	1.51	y	1.468e+06	1.468e+06	3.21e+01	y	5.91	
32:20	3.955e+05	n	2.550e+05	n	1.55	y	6.506e+05	6.506e+05	1.99e+01	y	2.62	
32:50	5.283e+05	n	3.416e+05	n	1.55	y	8.699e+05	8.699e+05	2.71e+01	y	3.51	1,2,3,7,8-PeCDD
32:56	1.467e+05	n	9.984e+04	n	1.47	y	2.465e+05	2.465e+05	7.70e+00	y	0.993	
33:17	1.460e+05	n	9.633e+04	n	1.52	y	2.423e+05	2.423e+05	6.69e+00	y	0.977	1,2,3,8,9-PeCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDD EMPC Function: 3 Run #: 17 Checkcode: 1387  
 File Name: 090325P1 Sample #: 10 Sample text: P1193\_6679\_006 PO-UP-21-SS-A-090313 10.»

Acquired: 25-MAR-09 21:51:19 Processed: 26-MAR-09 08:40:43

Total Conc.: 859.70 Unnamed Conc.: 410.806 Homolog count: 8

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
35:04	4.382e+07	n	3.583e+07	n	1.22	y	7.965e+07	7.965e+07	8.60e+02	y	380	1,2,4,6,7,9-HxCDD
35:44	8.228e+06	n	6.642e+06	n	1.24	y	1.487e+07	1.487e+07	1.55e+02	y	70.9	
36:01	2.427e+07	n	1.965e+07	n	1.24	y	4.392e+07	4.392e+07	3.64e+02	y	209	
36:09	1.266e+07	n	1.066e+07	n	1.19	y	2.332e+07	2.332e+07	2.25e+02	y	111	
36:46	1.115e+06	n	9.724e+05	n	1.15	y	2.087e+06	2.087e+06	2.09e+01	y	10.3	1,2,3,4,7,8-HxCDD
36:53	4.663e+06	n	3.788e+06	n	1.23	y	8.451e+06	8.451e+06	8.21e+01	y	40.8	1,2,3,6,7,8-HxCDD
37:05	2.136e+06	n	1.907e+06	n	1.12	y	4.042e+06	4.042e+06	4.12e+01	y	19.3	
37:12	2.222e+06	n	1.709e+06	n	1.30	y	3.932e+06	3.932e+06	3.37e+01	y	18.0	1,2,3,7,8,9-HxCDD
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: HpCDD EMPC Function: 4 Run #: 17 Checkcode: 1387  
 File Name: 090325P1 Sample #: 10 Sample text: P1193\_6679\_006 PO-UP-21-SS-A-090313 10.»

Acquired: 25-MAR-09 21:51:19 Processed: 26-MAR-09 08:40:43

Total Conc.: 11224 Unnamed Conc.: \* Homolog count: 2 ✓

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
39:32	9.156e+08	n	8.720e+08	n	1.05	y	1.788e+09	1.788e+09	6.08e+03	y	9240	1,2,3,4,6,7,9-HpCDD
40:24	1.962e+08	n	1.881e+08	n	1.04	y	3.843e+08	3.843e+08	1.20e+03	y	1990	1,2,3,4,6,7,8-HpCDD
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: TCDF EMPC Function: 1 Run #: 17 Checkcode: 1387  
 File Name: 090325P1 Sample #: 10 Sample text: P1193\_6679\_006 PO-UP-21-SS-A-090313 10.»

Acquired: 25-MAR-09 21:51:19 Processed: 26-MAR-09 08:40:43

Total Conc.: 34.495 Unnamed Conc.: 26.483 Homolog count: 21 ✓

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
21:17	2.452e+05	n	2.971e+05	n	0.83	y	5.423e+05	5.423e+05	6.23e+01	y	1.13	1,3,6,8-TCDF
21:49	3.147e+05	n	3.945e+05	n	0.80	y	7.092e+05	7.092e+05	6.88e+01	y	1.48	
22:26	8.518e+05	n	1.068e+06	n	0.80	y	1.920e+06	1.920e+06	1.76e+02	y	4.01	2,4,6,8-TCDF
22:59	7.692e+05	n	1.043e+06	n	0.74	y	1.812e+06	1.812e+06	1.22e+02	y	3.78	
23:23	8.241e+05	n	1.018e+06	n	0.81	y	1.842e+06	1.842e+06	1.33e+02	y	3.84	
23:51	5.280e+05	y	7.002e+05	y	0.75	y	1.228e+06	1.228e+06	1.27e+02	y	2.56	
23:59	1.679e+05	y	2.267e+05	y	0.74	y	3.947e+05	3.947e+05	4.40e+01	y	0.823	
24:09	2.840e+05	y	3.964e+05	y	0.72	y	6.803e+05	6.803e+05	8.26e+01	y	1.42	
24:33	1.352e+05	y	1.617e+05	y	0.84	y	2.969e+05	2.969e+05	2.82e+01	y	0.619	
24:41	2.233e+05	y	2.952e+05	y	0.76	y	5.185e+05	5.185e+05	5.27e+01	y	1.08	
24:50	5.274e+05	y	7.105e+05	y	0.74	y	1.238e+06	1.238e+06	1.35e+02	y	2.58	
24:58	3.661e+05	y	4.094e+05	y	0.89	n	7.755e+05	7.247e+05	7.47e+01	y	1.51	
25:26	4.414e+05	y	5.664e+05	n	0.78	y	1.008e+06	1.008e+06	1.06e+02	y	2.10	
25:43	1.719e+05	y	2.322e+05	n	0.74	y	4.041e+05	4.041e+05	4.99e+01	y	0.843	
25:56	1.098e+05	y	1.271e+05	n	0.86	y	2.369e+05	2.369e+05	2.19e+01	y	0.494	
26:08	1.270e+05	y	1.544e+05	y	0.82	y	2.814e+05	2.814e+05	3.50e+01	y	0.587	
26:14	1.299e+05	y	1.319e+05	y	0.99	n	2.618e+05	2.334e+05	3.62e+01	y	0.487	2,3,4,8-TCDF
26:21	4.929e+05	y	6.521e+05	y	0.76	y	1.145e+06	1.145e+06	1.28e+02	y	2.39	2,3,7,8-TCDF
26:45	5.070e+05	n	6.373e+05	n	0.80	y	1.144e+06	1.144e+06	1.21e+02	y	2.39	
27:00	5.551e+04	y	6.859e+04	n	0.81	y	1.241e+05	1.241e+05	1.57e+01	y	0.259	
27:17	2.304e+04	y	2.881e+04	n	0.80	y	5.185e+04	5.185e+04	6.99e+00	y	0.108	
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: PeCDF EMPC Function: 2 Run #: 17 Checkcode: 1387



File Name: 090325P1 Sample #: 10 Sample text: P1193\_6679\_006 PO-UP-21-SS-A-090313 10.\*

Acquired: 25-MAR-09 21:51:19 Processed: 26-MAR-09 08:40:43

Total Conc.: 38.355 Unnamed Conc.: 30.449 Homolog count: 11 ✓

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
30:05	7.012e+05	n	4.044e+05	n	1.73	y	1.106e+06	1.106e+06	4.56e+01	y	2.84	
30:14	3.842e+06	n	2.420e+06	n	1.59	y	6.262e+06	6.262e+06	2.26e+02	y	16.1	
30:39	1.539e+05	n	9.379e+04	n	1.64	y	2.477e+05	2.477e+05	1.23e+01	y	0.636	
30:54	1.285e+06	n	8.219e+05	n	1.56	y	2.107e+06	2.107e+06	7.81e+01	y	5.41	
31:08	3.225e+05	n	1.904e+05	n	1.69	y	5.129e+05	5.129e+05	2.40e+01	y	1.32	
31:20	5.392e+05	n	3.618e+05	n	1.49	y	9.010e+05	9.010e+05	5.05e+01	y	2.36	1,2,3,7,8-PeCDF
31:39	7.618e+05	n	4.520e+05	n	1.69	y	1.214e+06	1.214e+06	4.20e+01	y	3.11	
32:13	4.783e+04	n	3.052e+04	n	1.57	y	7.835e+04	7.835e+04	7.04e+00	y	0.201	
32:21	2.173e+05	n	1.249e+05	n	1.74	y	3.423e+05	3.423e+05	1.99e+01	y	0.878	
32:29	1.270e+06	n	8.188e+05	n	1.55	y	2.089e+06	2.089e+06	7.07e+01	y	5.25	2,3,4,7,8-PeCDF
33:34	6.864e+04	n	4.648e+04	n	1.48	y	1.151e+05	1.151e+05	8.13e+00	y	0.295	1,2,3,8,9-PeCDF

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDF EMPC Function: 3 Run #: 17 Checkcode: 1387  
 File Name: 090325P1 Sample #: 10 Sample text: P1193\_6679\_006 PO-UP-21-SS-A-090313 10.\*

Acquired: 25-MAR-09 21:51:19 Processed: 26-MAR-09 08:40:43

Total Conc.: 288.13 Unnamed Conc.: 227.957 Homolog count: 11 ✓

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
34:24	4.838e+06	n	3.803e+06	n	1.27	y	8.641e+06	8.641e+06	2.82e+02	y	27.7	1,2,3,4,6,8-HxCDF
34:36	1.587e+07	n	1.269e+07	n	1.25	y	2.856e+07	2.856e+07	9.28e+02	y	91.7	
34:51	1.945e+05	n	1.895e+05	n	1.03	n	3.839e+05	3.513e+05	7.57e+00	y	1.13	
35:02	6.040e+05	n	4.876e+05	n	1.24	y	1.092e+06	1.092e+06	3.16e+01	y	3.50	
35:15	2.212e+07	n	1.770e+07	n	1.25	y	3.982e+07	3.982e+07	1.29e+03	y	128	
35:41	4.311e+05	n	3.655e+05	n	1.18	y	7.966e+05	7.966e+05	2.22e+01	y	2.56	
35:48	2.451e+06	n	2.003e+06	n	1.22	y	4.454e+06	4.454e+06	1.50e+02	y	14.1	1,2,3,4,7,8-HxCDF
35:56	1.185e+06	n	9.496e+05	n	1.25	y	2.135e+06	2.135e+06	6.12e+01	y	6.24	1,2,3,6,7,8-HxCDF
36:14	2.168e+05	n	1.770e+05	n	1.23	y	3.937e+05	3.937e+05	1.25e+01	y	1.26	
36:35	1.670e+06	n	1.363e+06	n	1.22	y	3.033e+06	3.033e+06	9.22e+01	y	9.46	2,3,4,6,7,8-HxCDF
37:36	3.973e+05	n	3.049e+05	n	1.30	y	7.022e+05	7.022e+05	1.79e+01	y	2.62	1,2,3,7,8,9-HxCDF

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HpCDF EMPC Function: 4 Run #: 17 Checkcode: 1387  
 File Name: 090325P1 Sample #: 10 Sample text: P1193\_6679\_006 PO-UP-21-SS-A-090313 10.\*

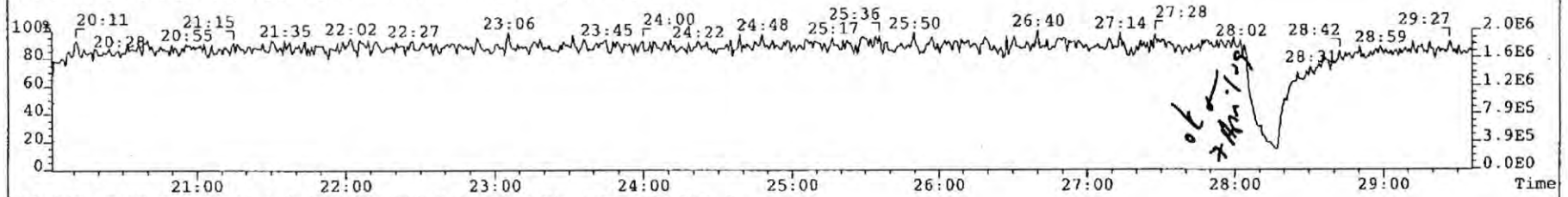
Acquired: 25-MAR-09 21:51:19 Processed: 26-MAR-09 08:40:43

Total Conc.: 878.95 Unnamed Conc.: 608.616 Homolog count: 4 ✓

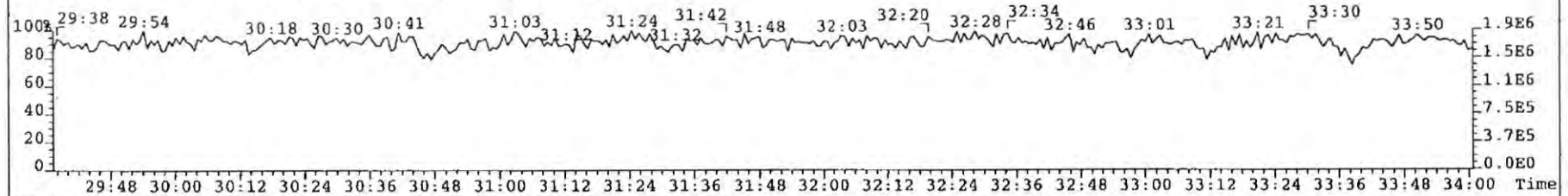
RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
39:13	3.451e+07	n	3.294e+07	n	1.05	y	6.746e+07	6.746e+07	9.73e+02	y	258	1,2,3,4,6,7,8-HpCDF
39:32	1.238e+06	n	1.122e+06	n	1.10	y	2.360e+06	2.360e+06	2.94e+01	y	9.86	
39:43	7.336e+07	n	6.990e+07	n	1.05	y	1.433e+08	1.433e+08	1.96e+03	y	599	
40:58	1.333e+06	n	1.242e+06	n	1.07	y	2.575e+06	2.575e+06	3.23e+01	y	11.9	1,2,3,4,7,8,9-HpCDF



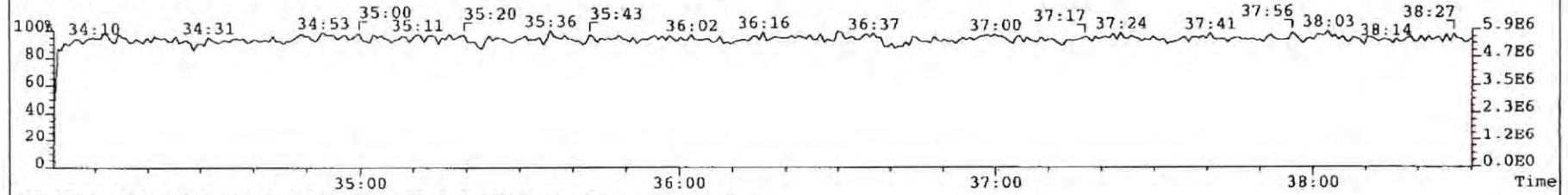
File: 090325Pl Acq: 25-MAR-2009 21:51:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 10 Text: P1193\_6679\_006 PO-0P-21-SS-A-090313 10.2g Vial# 23 File Text: AP DB5  
316.9824 S:10 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



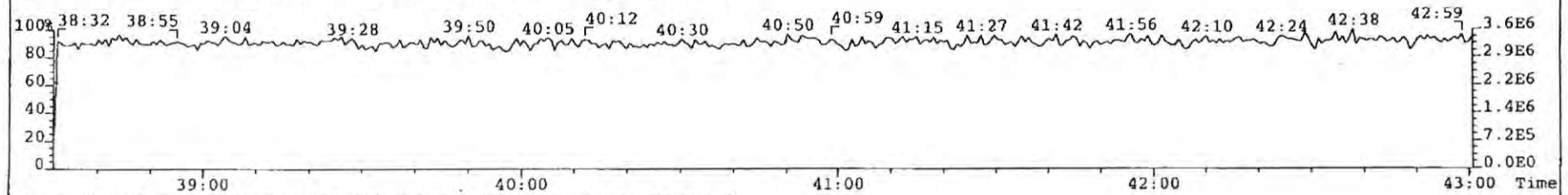
366.9792 S:10 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



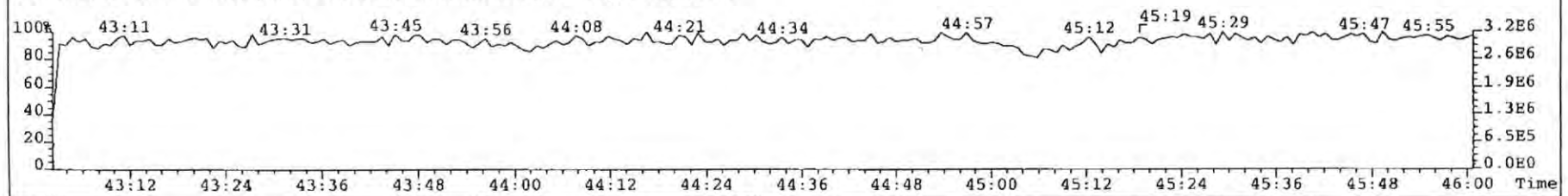
380.9760 S:10 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



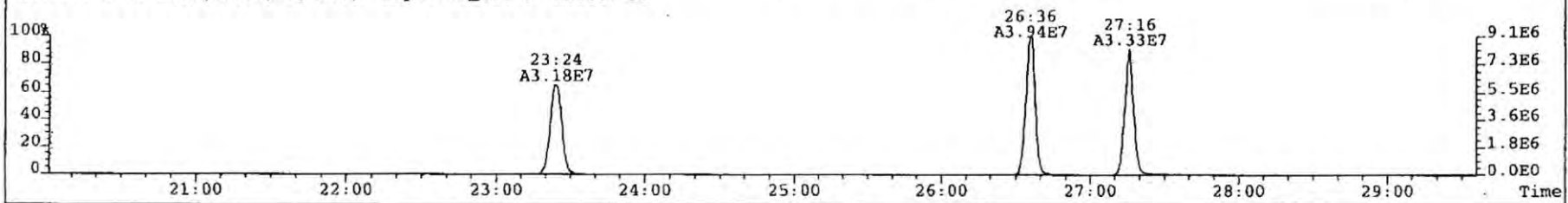
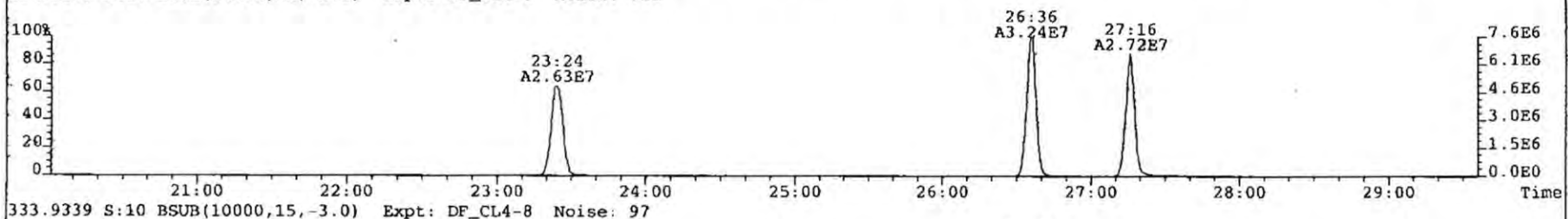
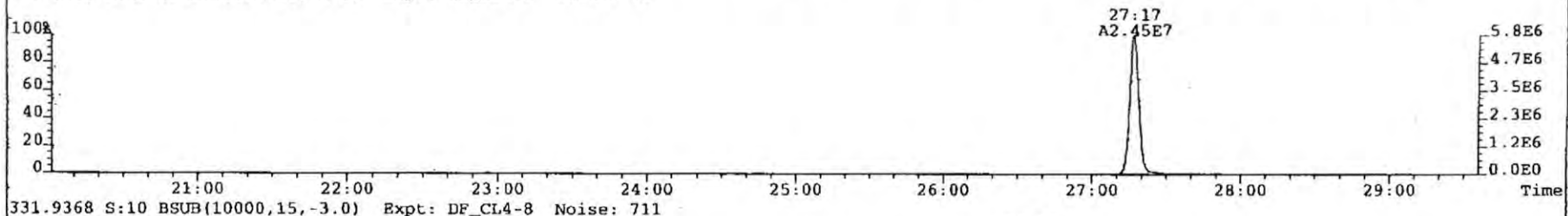
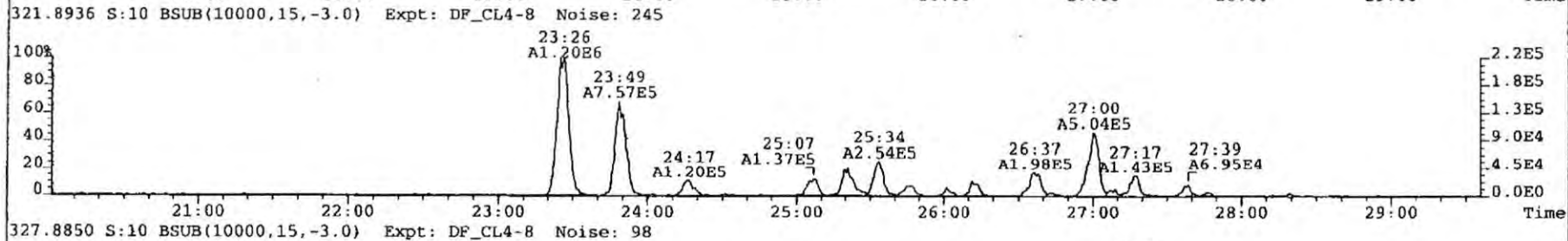
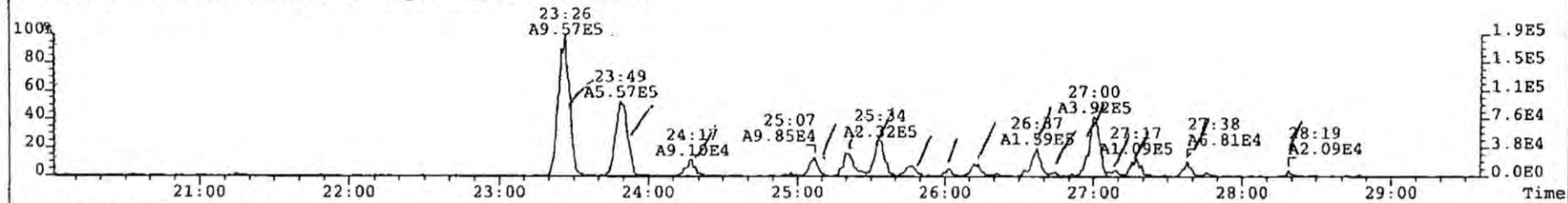
430.9728 S:10 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



454.9728 S:10 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

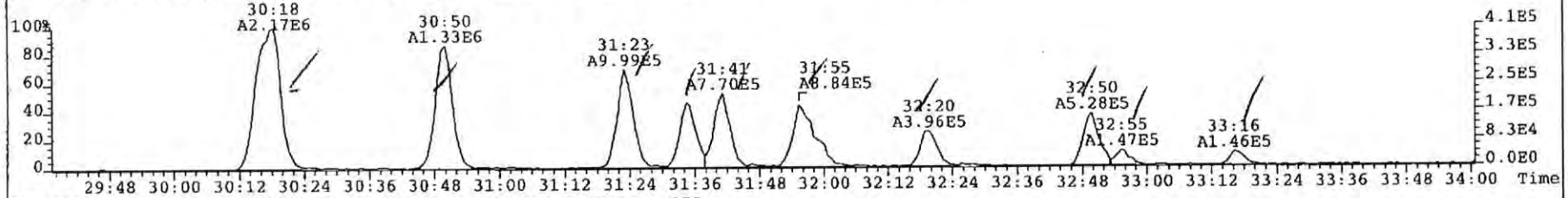


File: 090325P1 Acq: 25-MAR-2009 21:51:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 10 Text: P1193\_6679\_006 PO-UP-21-SS-A-090313 10.2g Vial# 23 File Text: AP DB5  
319.8965 S:10 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 78

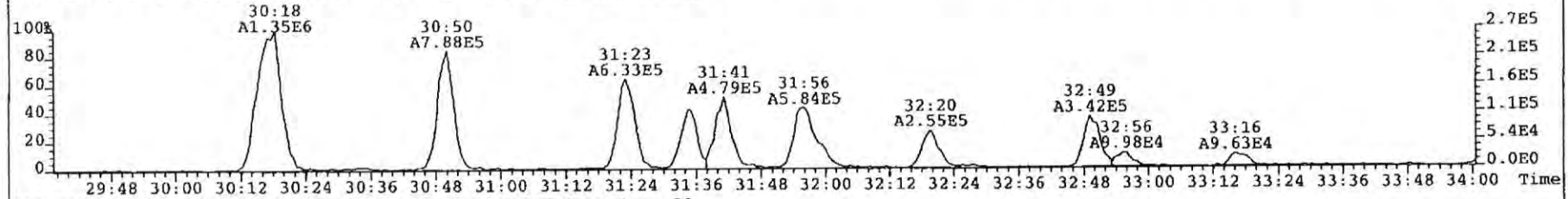




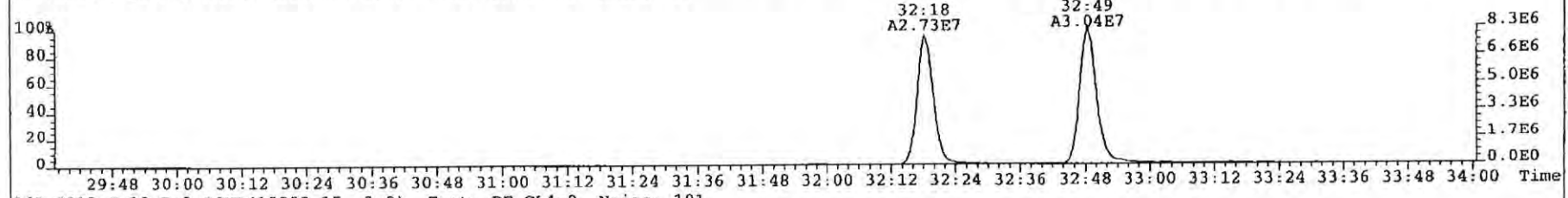
File: 090325P1 Acq: 25-MAR-2009 21:51:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 10 Text: P1193\_6679\_006 PO-UP-21-SS-A-090313 10.2g Vial# 23 File Text: AP DB5  
355.8546 S:10 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 733



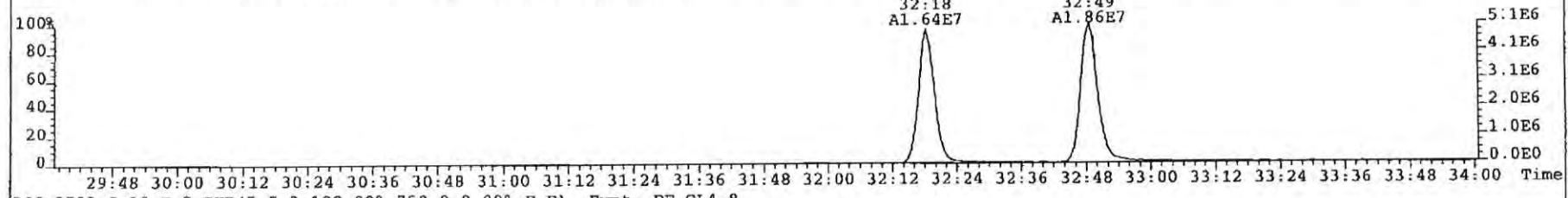
357.8517 S:10 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 352



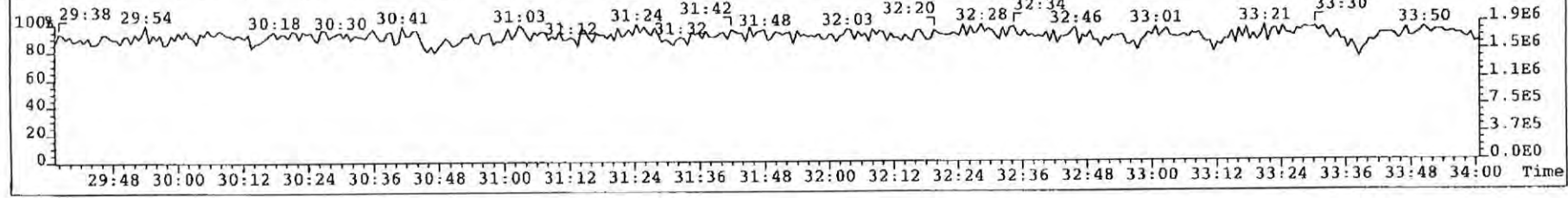
367.8949 S:10 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 99



369.8919 S:10 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 101

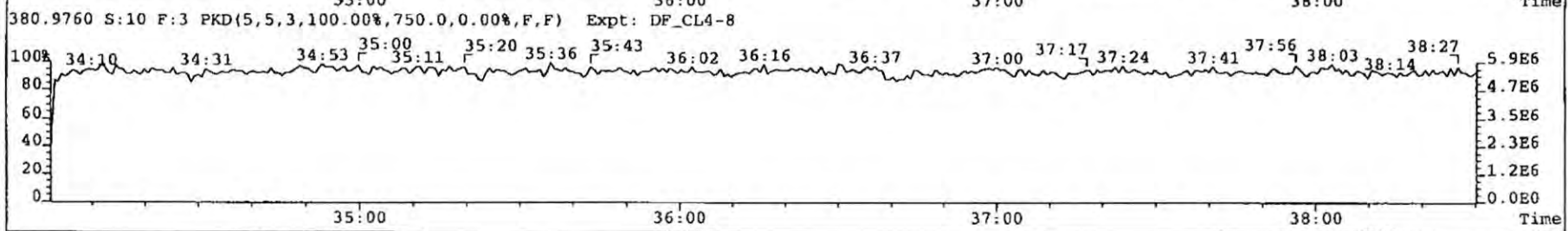
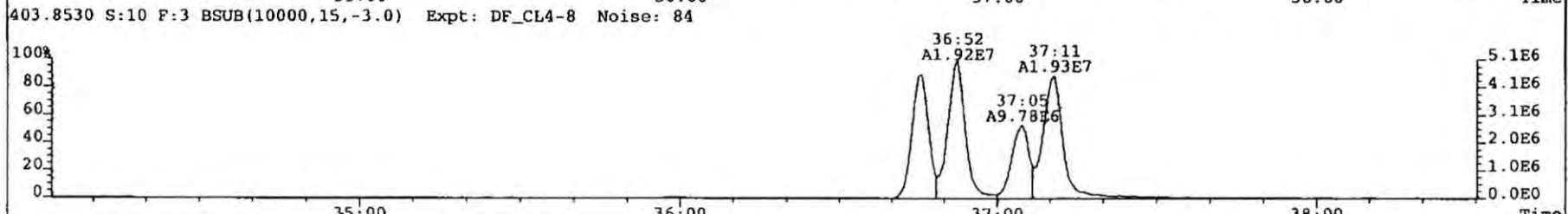
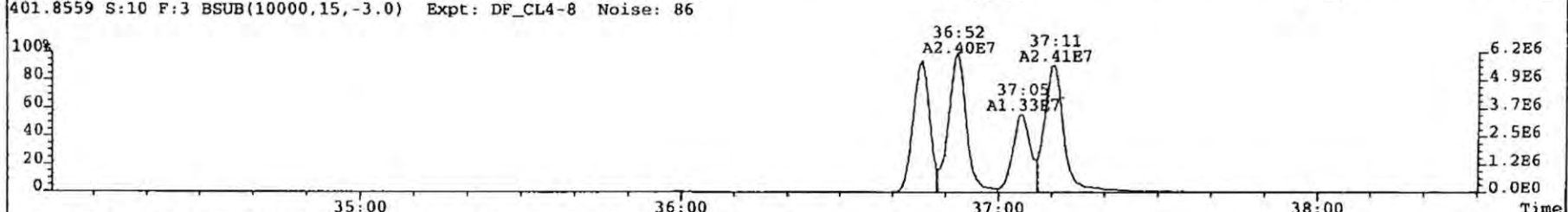
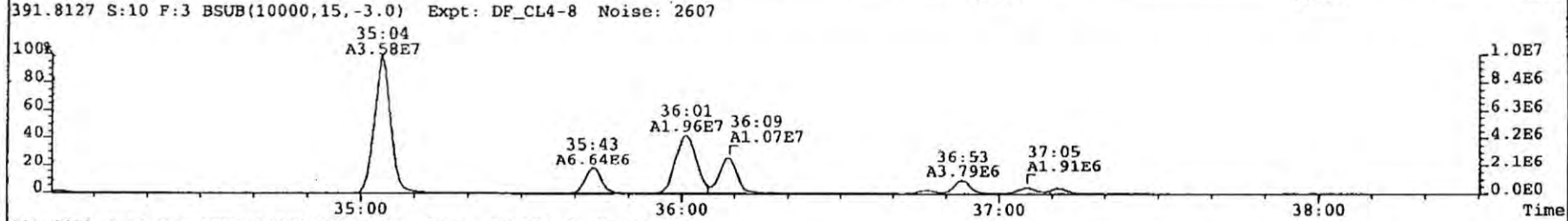
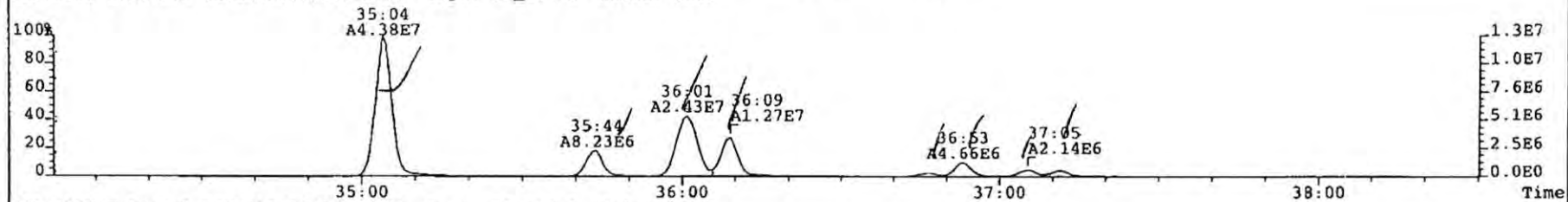


366.9792 S:10 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

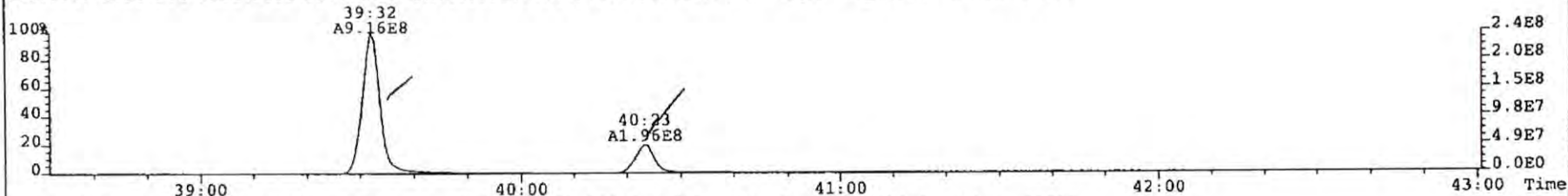




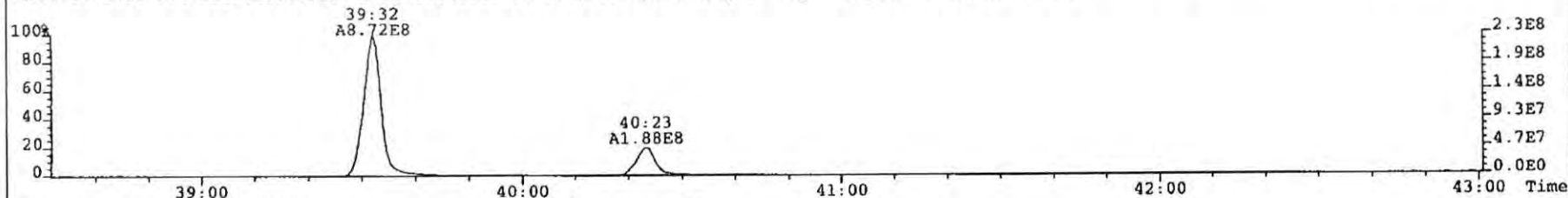
File: 090325P1 Acq: 25-MAR-2009 21:51:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 10 Text: P1193\_6679\_006 PO-UP-21-SS-A-090313 10.2g Vial# 23 File Text: AP DB5  
389.8156 S:10 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 2601



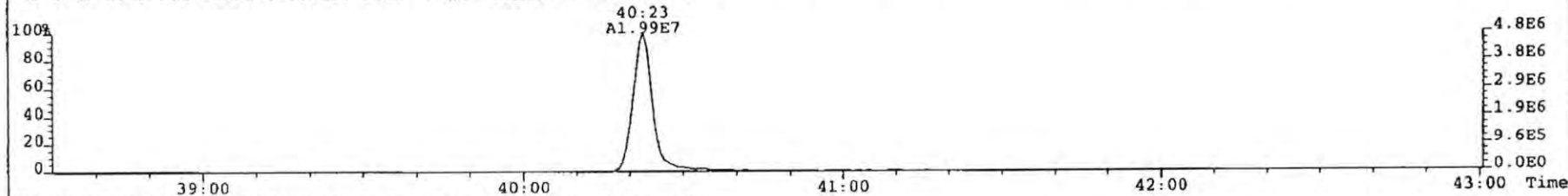
File: 090325P1 Acq: 25-MAR-2009 21:51:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 10 Text: P1193\_6679\_006 PO-UP-21-SS-A-090313 10.2g Vial# 23 File Text: AP DB5  
423.7767 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 11785



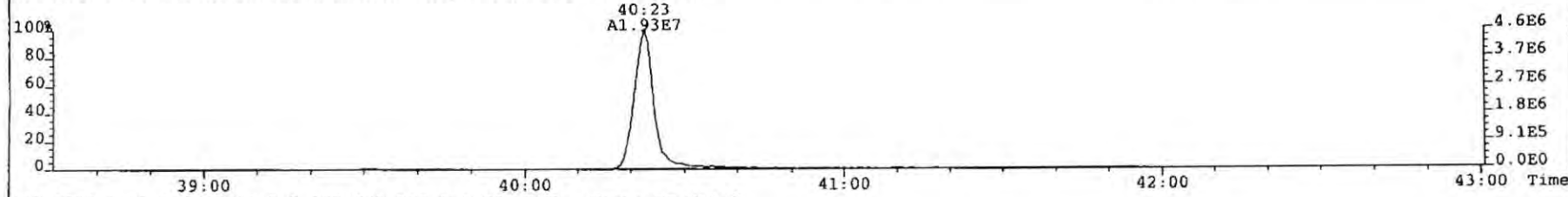
425.7737 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 11063



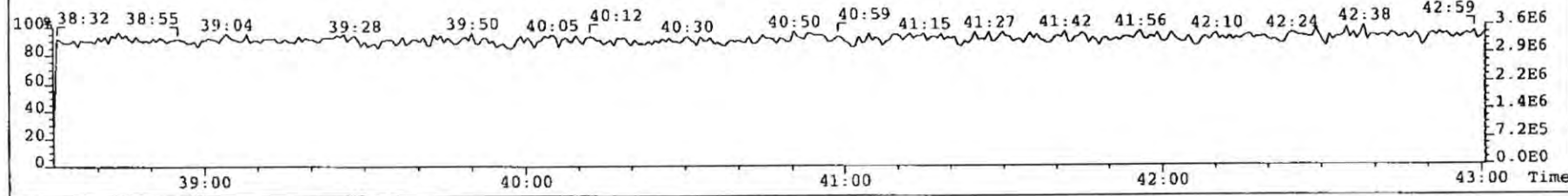
435.8169 S:10 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 392



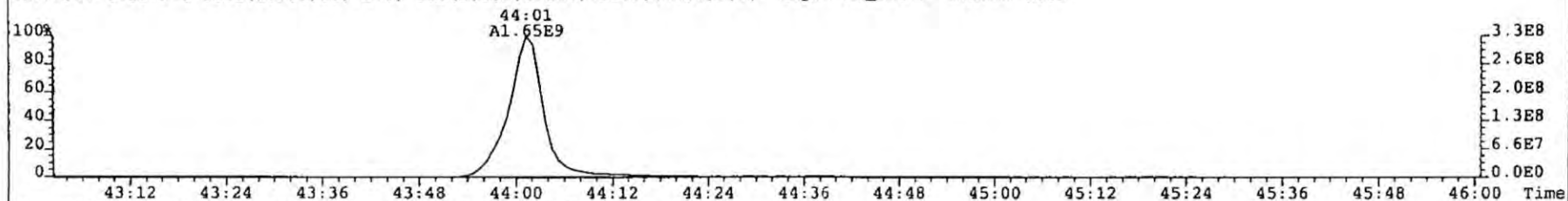
437.8140 S:10 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 697



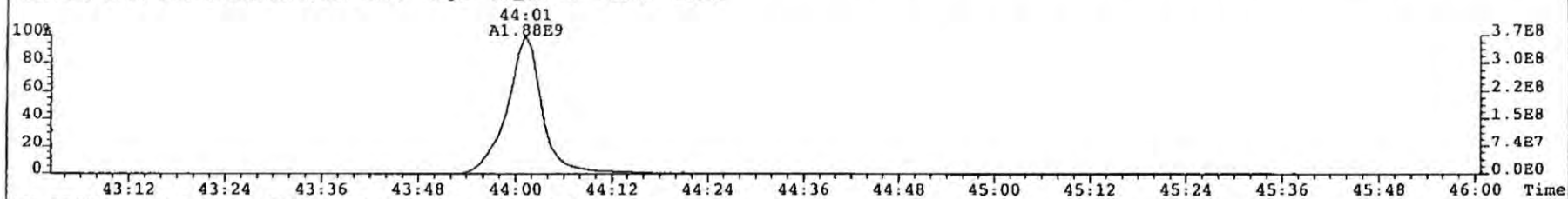
430.9728 S:10 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



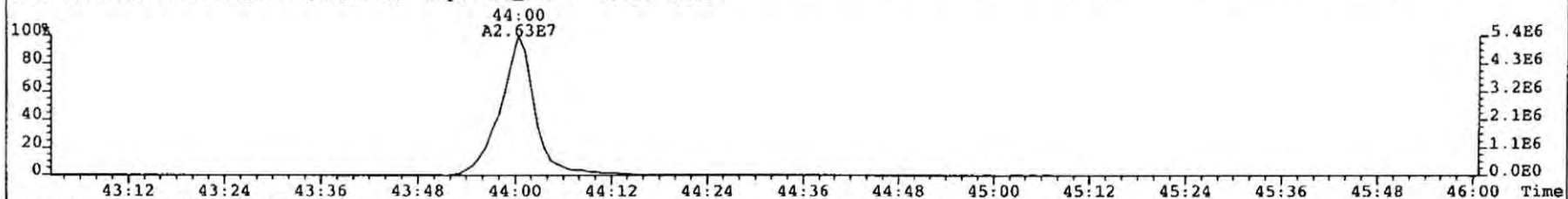
File: 090325P1 Acq: 25-MAR-2009 21:51:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 10 Text: P1193\_6679\_006 PO-UP-21-SS-A-090313 10.2g Vial# 23 File Text: AP DB5  
457.7377 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 9059



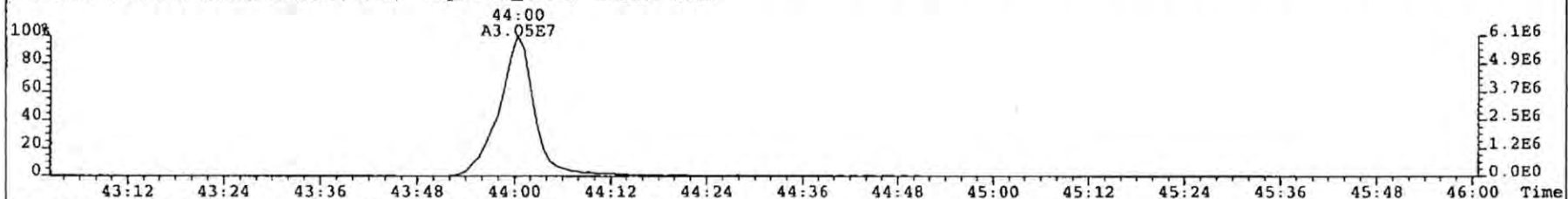
459.7348 S:10 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 15226



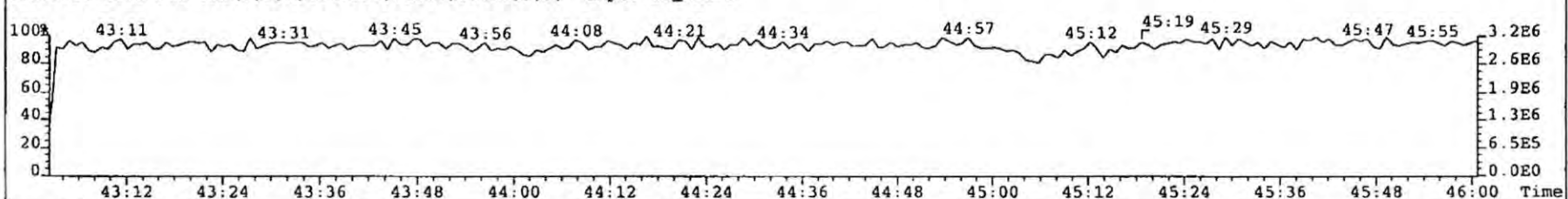
469.7780 S:10 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1225



471.7750 S:10 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1019

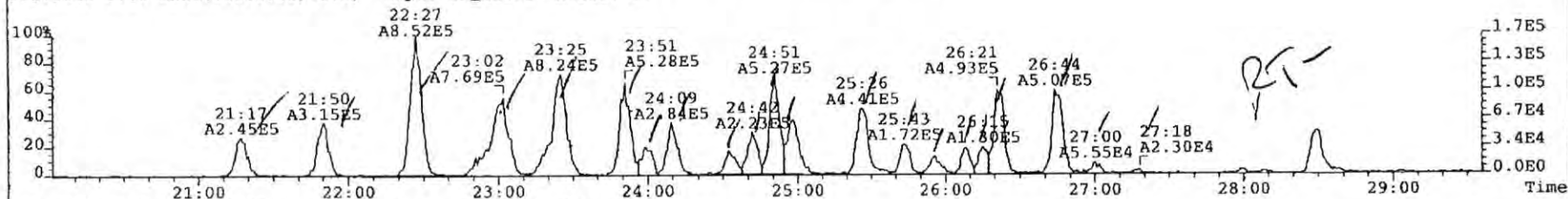


454.9728 S:10 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

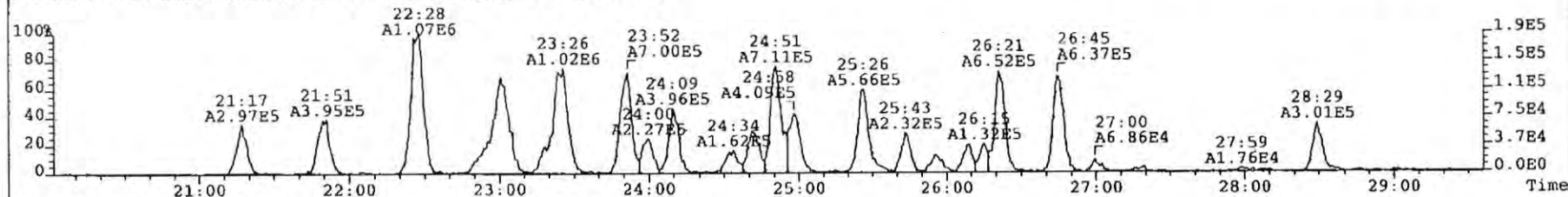




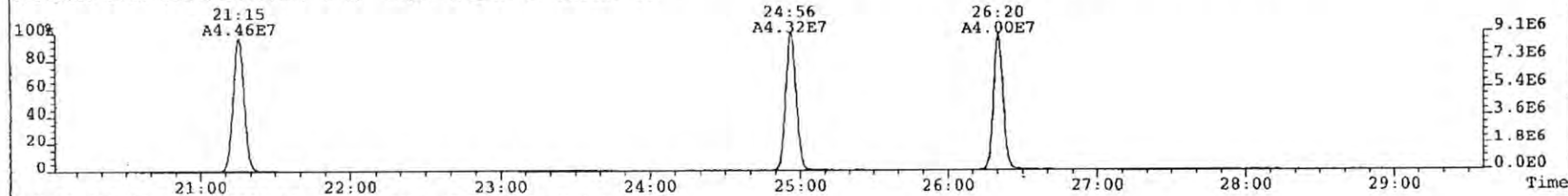
File: 090325P1 Acq: 25-MAR-2009 21:51:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 10 Text: P1193\_6679\_006 PO-UP-21-SS-A-090313 10.2g Vial# 23 File Text: AP DB5  
303.9016 S:10 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 87



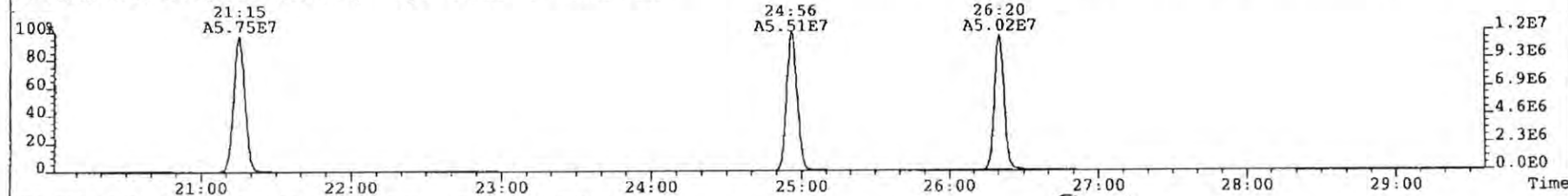
305.8987 S:10 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 126



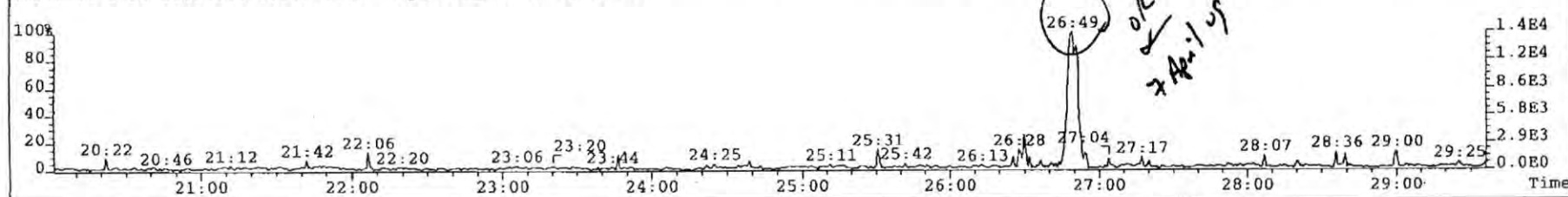
315.9419 S:10 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 95



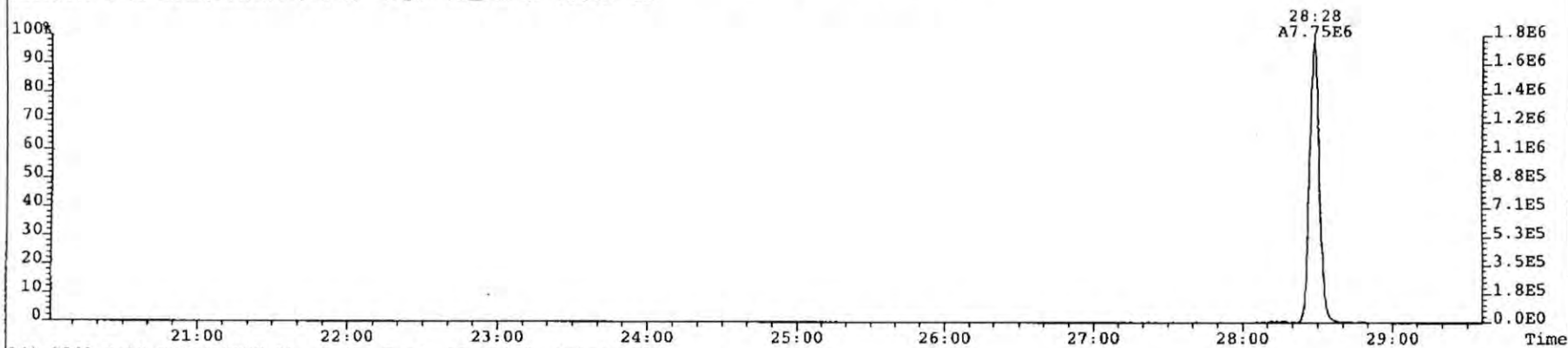
317.9389 S:10 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 583



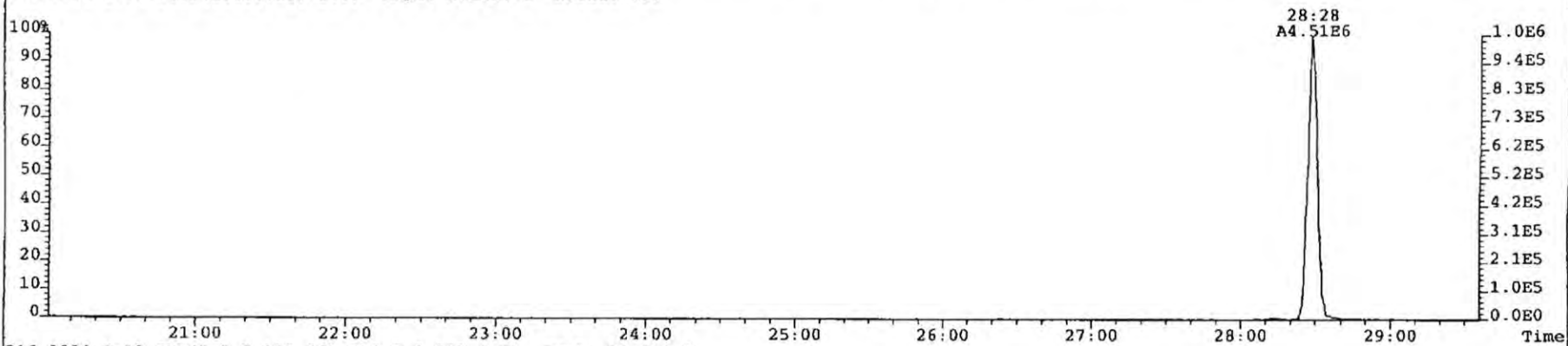
375.8364 S:10 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 97



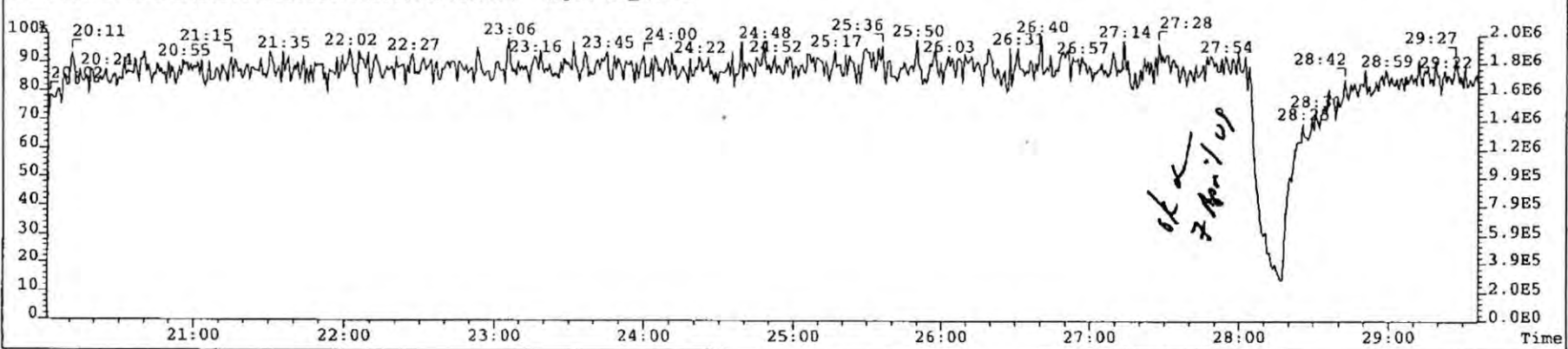
File: 090325P1 Acq: 25-MAR-2009 21:51:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 10 Text: P1193\_6679\_006 PO-UP-21-SS-A-090313 10.2g Vial# 23 File Text: AP DB5  
339.8597 S:10 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 93



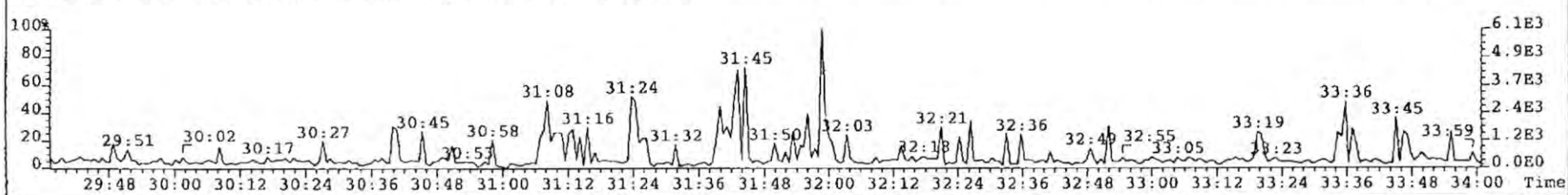
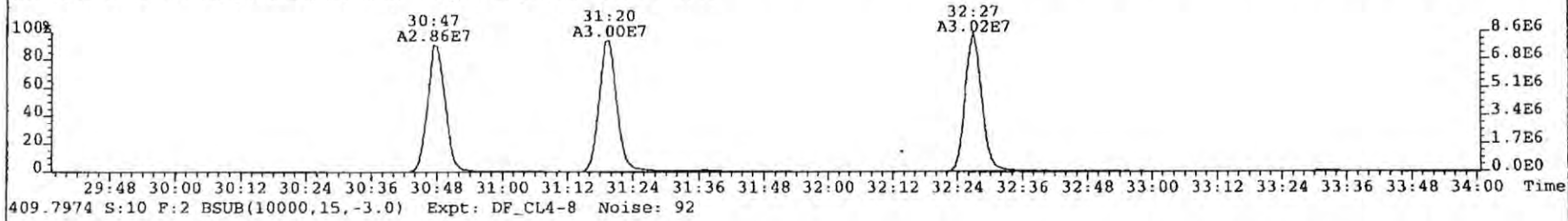
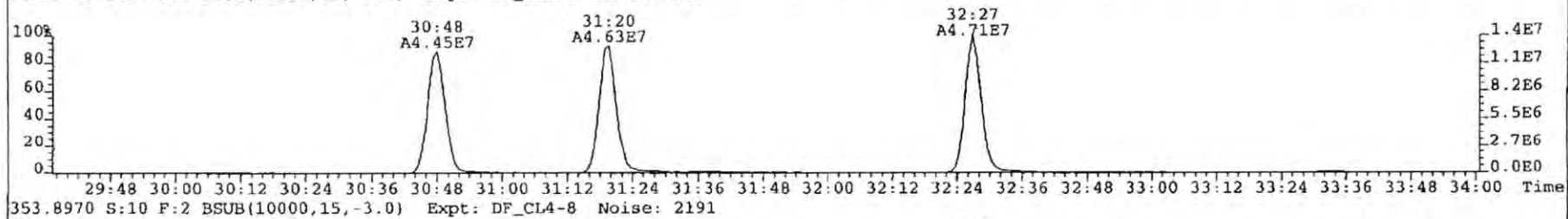
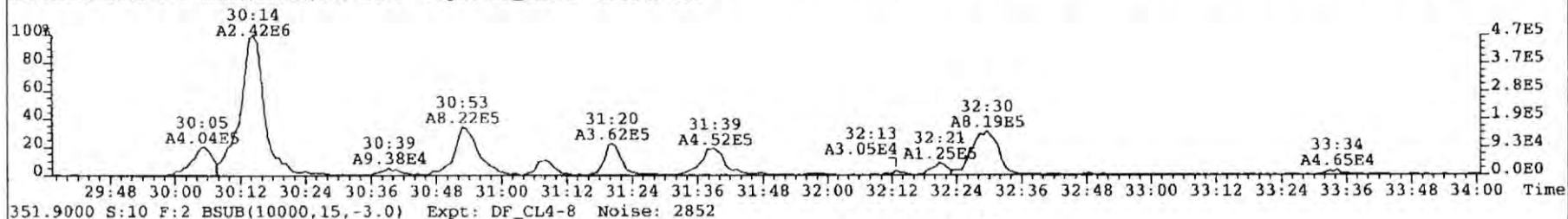
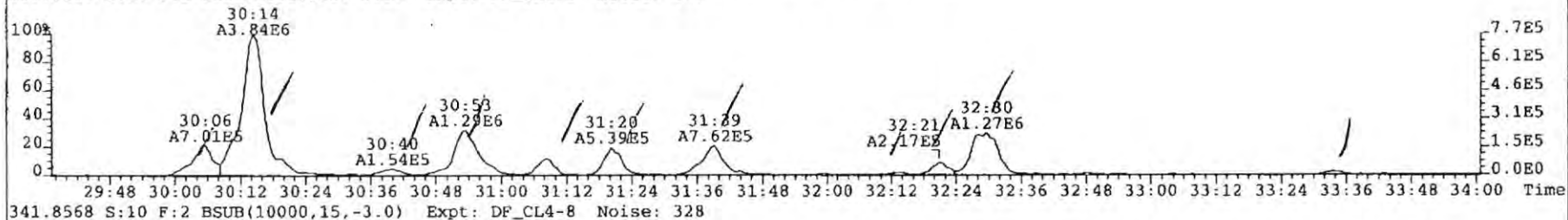
341.8568 S:10 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 100



316.9824 S:10 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

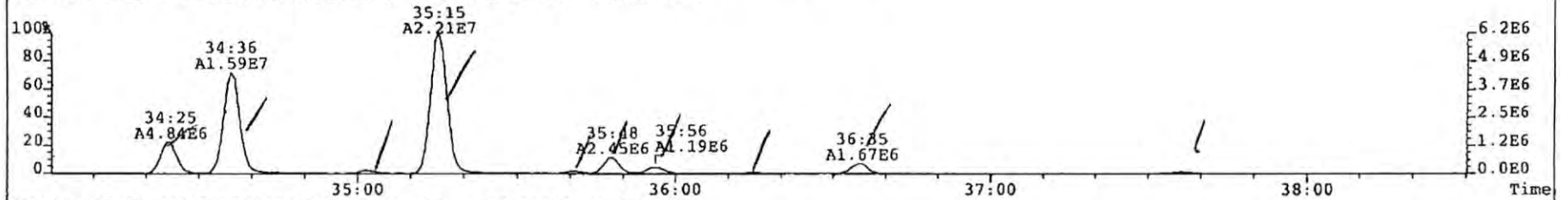


File: 090325P1 Acq: 25-MAR-2009 21:51:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 10 Text: P1193\_6679\_006 PO-UP-21-SS-A-090313 10.2g Vial# 23 File Text: AP DB5  
339.8597 S:10 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 477

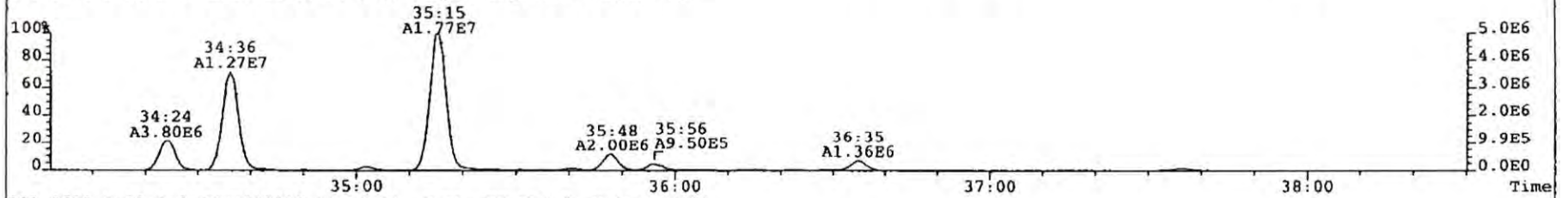




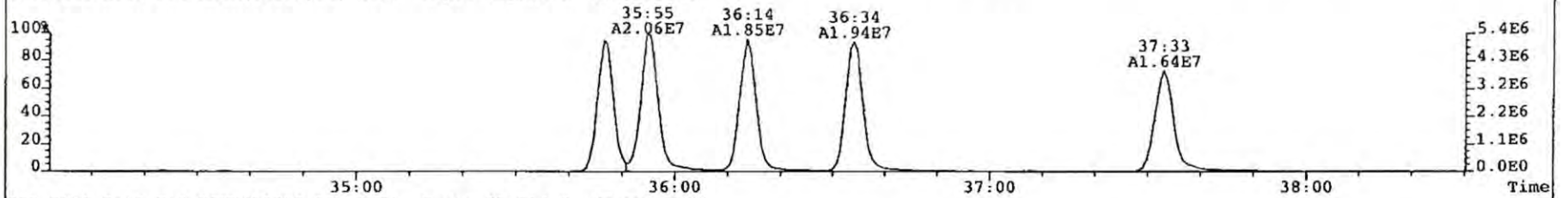
File: 090325P1 Acq: 25-MAR-2009 21:51:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 10 Text: P1193\_6679\_006 PO-UP-21-SS-A-090313 10.2g Vial# 23 File Text: AP DB5  
373.8207 S:10 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 943



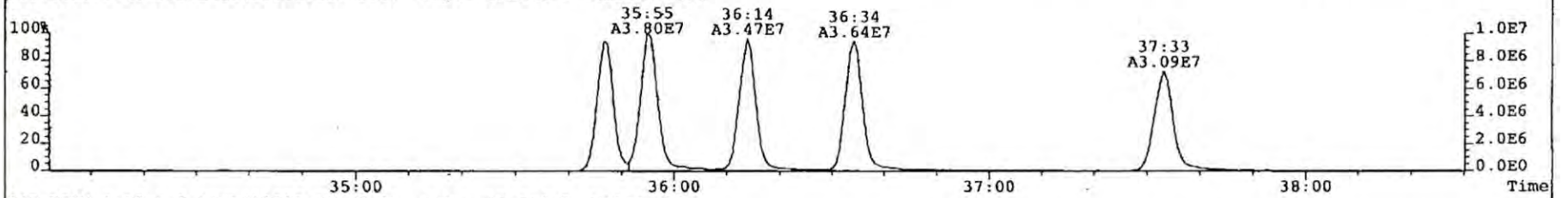
375.8178 S:10 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 921



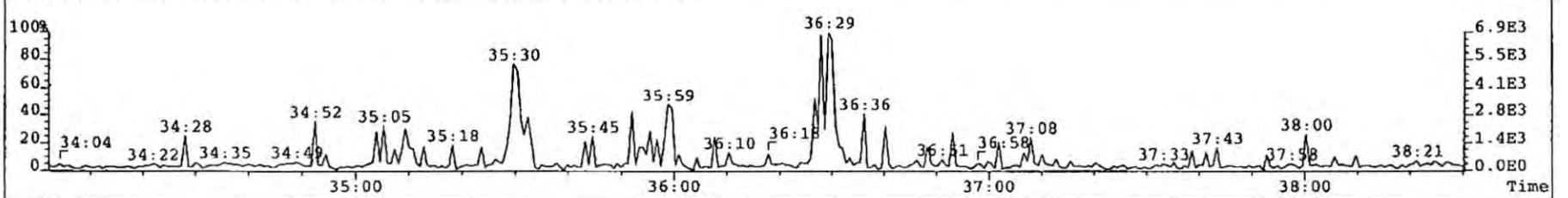
383.8639 S:10 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1279



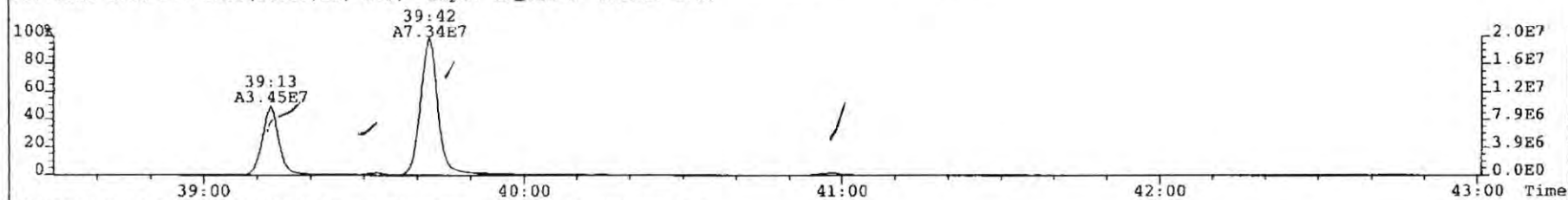
385.8610 S:10 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 3838



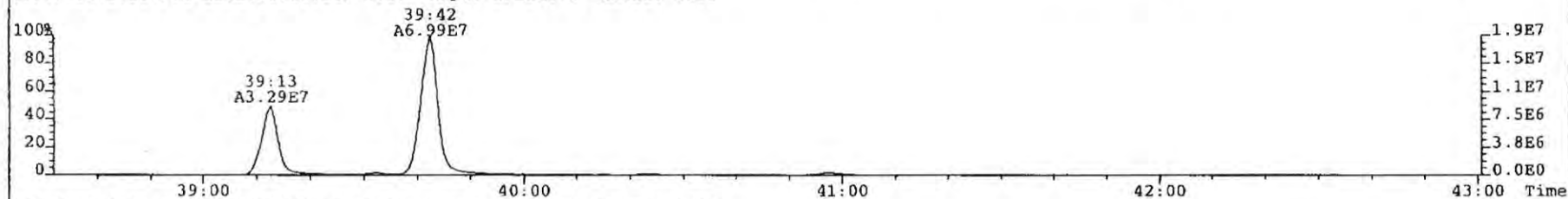
445.7555 S:10 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 79



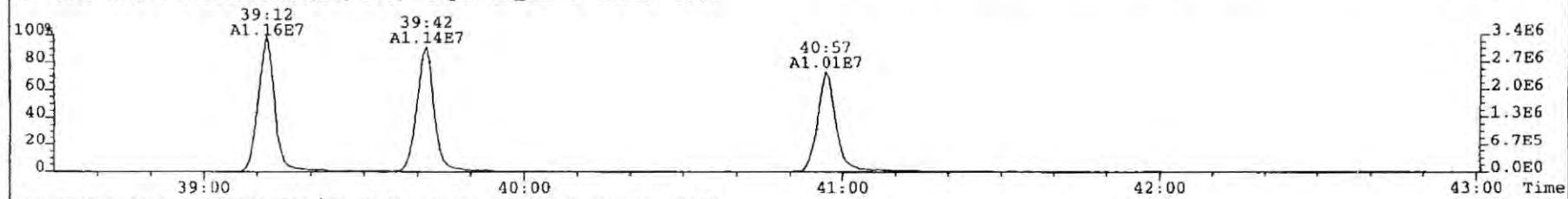
File: 090325PI Acq: 25-MAR-2009 21:51:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 10 Text: P1193\_6679\_006 PO-UP-21-SS-A-090313 10.2g Vial# 23 File Text: AP DB5  
407.7818 S:10 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1703



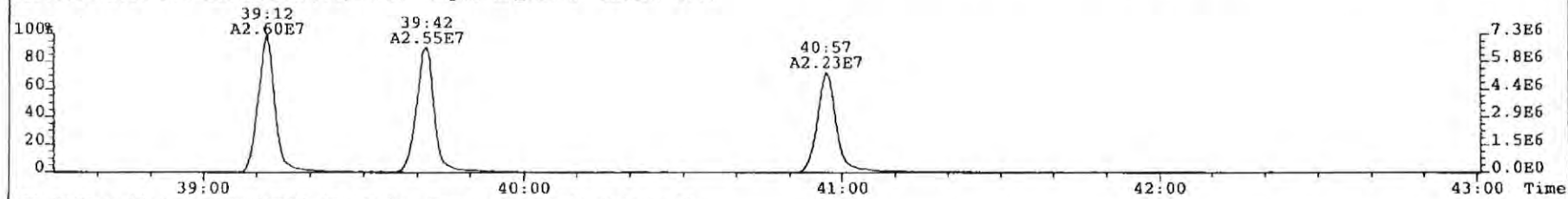
409.7788 S:10 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1598



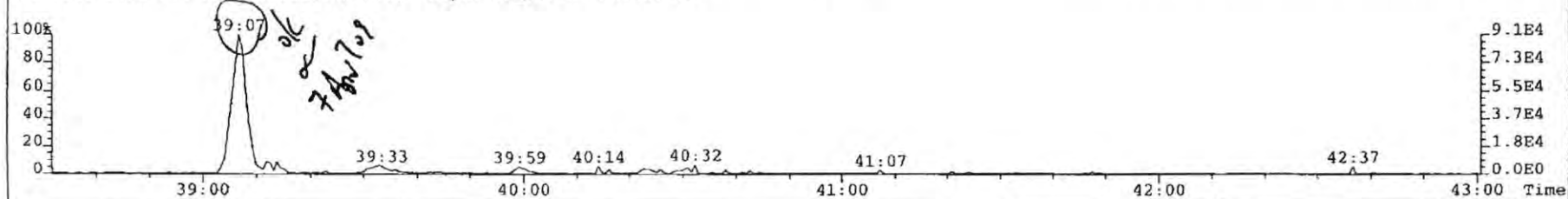
417.8253 S:10 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1609



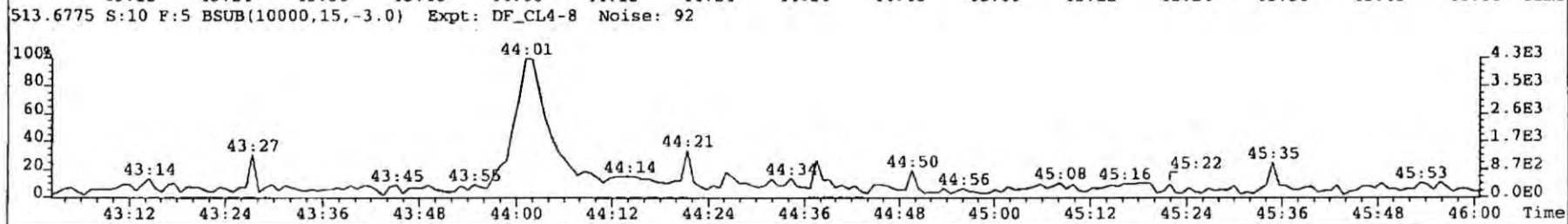
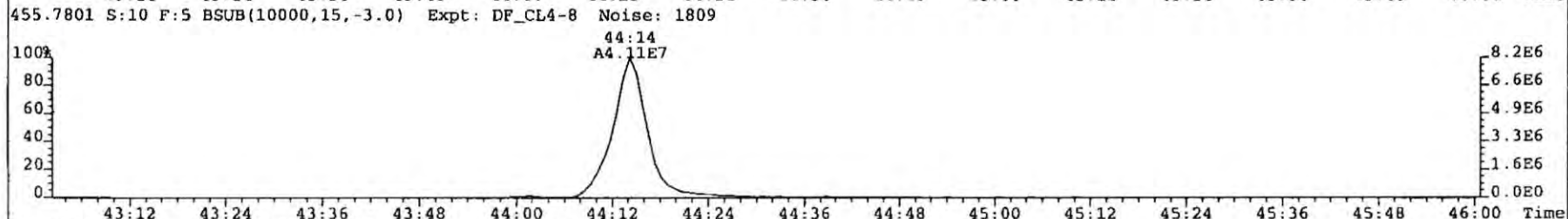
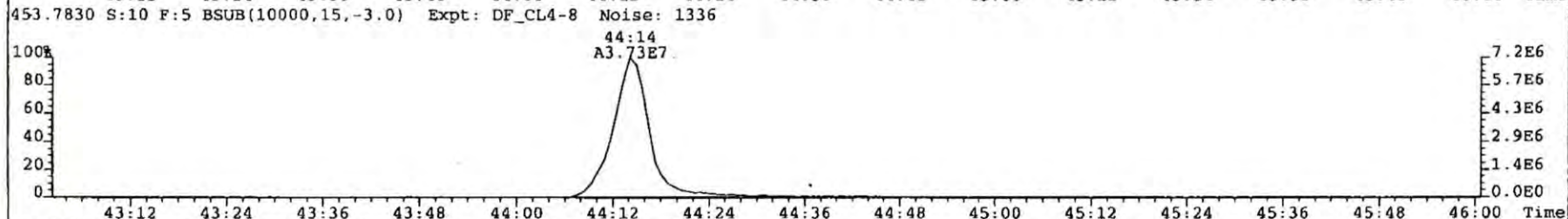
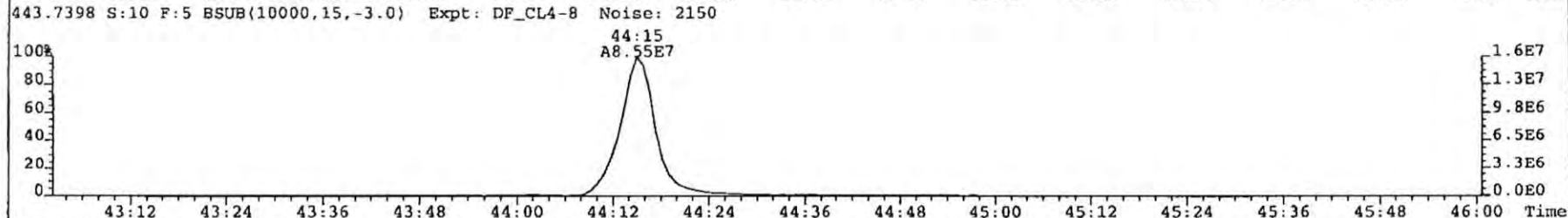
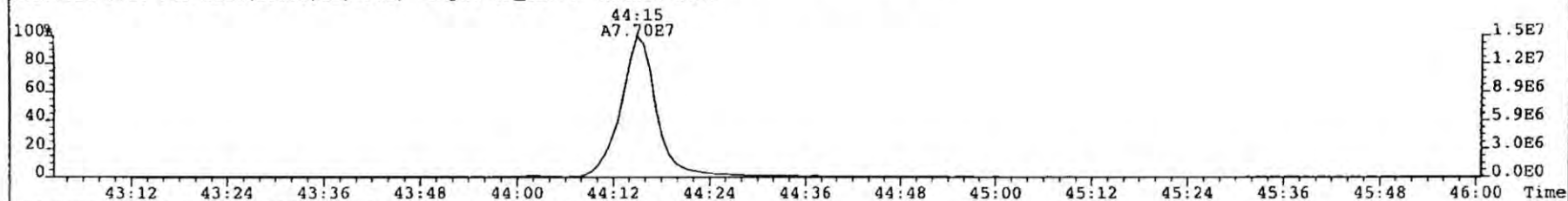
419.8220 S:10 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 3778



479.7165 S:10 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 99



File: 090325P1 Acq: 25-MAR-2009 21:51:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 10 Text: P1193\_6679\_006 PO-UP-21-SS-A-090313 10.2g Vial# 23 File Text: AP DB5  
441.7428 S:10 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1045





1613/8290 Sample Summary

Analytical Perspectives

[Form: DF]

Client ID: PO-UP-22-SS-A-090313      Filename: 090325P2      S: 4      Vial: 24      Acq: 26-MAR-09 01:23:42  
 Lab ID: P1193\_6679\_007      GC column ID: db-5      Cal: MM1\_DF\_07012007A\_25DEC08wt/Vol: 10.04  
 Sample text: P1193\_6679\_007 PO-UP-22-SS-A-090313 10.04g      Stds: JS (split adj.): 2000      CS/SS: 800      ES: 2000

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	2.78e+05	0.73 y	27:18	1.08	0.755	1666	2.5	0.0881	-
Ax	1,2,3,7,8-PeCDD	1.24e+06	1.47 y	32:50	1.00	4.44	3622	2.5	0.323	-
Ax	1,2,3,4,7,8-HxCDD	2.17e+06	1.18 y	36:46	1.08	9.18	7297	2.5	0.623	-
Ax	1,2,3,6,7,8-HxCDD	8.94e+06	1.23 y	36:53	0.94	37.8	7297	2.5	0.665	-
Ax	1,2,3,7,8,9-HxCDD	4.45e+06	1.24 y	37:11	0.99	17.4	7297	2.5	0.715	-
Ax	1,2,3,4,6,7,8-HpCDD	1.94e+08	1.05 y	40:24	0.97	944	21529	2.5	2.39	-
Ax	OCDD	6.38e+08	0.90 y	44:02	1.06	8140	45363	2.5	14.4	-
Ax2	OCDD-a	3.90e+07	2.53 y	44:01	0.06	8330	7122	2.5	37.7	-
Ax	2,3,7,8-TCDF	1.49e+06	0.77 y	26:22	1.05	2.74	1713	2.5	0.0640	-
Ax	1,2,3,7,8-PeCDF	1.31e+06	1.67 y	31:21	0.98	3.03	2696	2.5	0.147	-
Ax	2,3,4,7,8-PeCDF	2.79e+06	1.65 y	32:30	1.01	6.21	2696	2.5	0.139	-
Ax	1,2,3,4,7,8-HxCDF	6.07e+06	1.20 y	35:48	1.22	16.6	4043	2.5	0.146	-
Ax	1,2,3,6,7,8-HxCDF	2.93e+06	1.15 y	35:56	1.15	7.26	4043	2.5	0.138	-
Ax	2,3,4,6,7,8-HxCDF	3.85e+06	1.20 y	36:35	1.13	10.4	4043	2.5	0.160	-
Ax	1,2,3,7,8,9-HxCDF	8.88e+05	0.98 n	37:37	1.12	2.88	4043	2.5	0.214	-
Ax	1,2,3,4,6,7,8-HpCDF	7.47e+07	1.04 y	39:13	1.37	258	6327	2.5	0.295	-
Ax	1,2,3,4,7,8,9-HpCDF	2.70e+06	1.00 y	40:59	1.32	11.2	6327	2.5	0.404	-
Ax	OCDF	8.15e+07	0.88 y	44:16	0.94	669	12618	2.5	2.47	-
Ax2	OCDF-a	4.77e+06	2.65 y	44:15	0.05	697	3911	2.5	13.6	-
ES	13C-2,3,7,8-TCDD	6.78e+07	0.82 y	27:17	0.99	159	2362	2.5	0.106	79.6
ES	13C-1,2,3,7,8-PeCDD	5.57e+07	1.63 y	32:49	0.83	155	9930	2.5	0.530	77.7
ES	13C-1,2,3,4,7,8-HxCDD	4.34e+07	1.27 y	36:46	1.08	148	23594	2.5	1.72	74.4
ES	13C-1,2,3,6,7,8-HxCDD	4.99e+07	1.25 y	36:53	1.23	150	23594	2.5	1.52	75.5
ES	13C-1,2,3,7,8,9-HxCDD	5.13e+07	1.26 y	37:11	1.21	157	23594	2.5	1.54	78.6
ES	13C-1,2,3,4,6,7,8-HpCDD	4.21e+07	1.06 y	40:23	0.98	158	7697	2.5	0.619	79.4
ES	13C-OCDD	2.94e+07	0.86 y	44:00	0.66	165	7918	2.5	0.949	41.4
ES	13C-2,3,7,8-TCDF	1.03e+08	0.79 y	26:21	0.96	183	5901	2.5	0.217	91.7
ES	13C-1,2,3,7,8-PeCDF	8.76e+07	1.55 y	31:20	0.85	174	16241	2.5	0.670	87.3
ES	13C-2,3,4,7,8-PeCDF	8.82e+07	1.57 y	32:28	0.88	169	16241	2.5	0.647	84.9
ES	13C-1,2,3,4,7,8-HxCDF	5.98e+07	0.54 y	35:47	1.47	150	34901	2.5	1.87	75.3
ES	13C-1,2,3,6,7,8-HxCDF	6.98e+07	0.53 y	35:56	1.78	145	34901	2.5	1.55	72.9
ES	13C-2,3,4,6,7,8-HxCDF	6.49e+07	0.54 y	36:35	1.61	149	34901	2.5	1.71	74.8
ES	13C-1,2,3,7,8,9-HxCDF	5.51e+07	0.53 y	37:34	1.40	145	34901	2.5	1.97	73.0
ES	13C-1,2,3,4,6,7,8-HpCDF	4.22e+07	0.47 y	39:13	1.16	134	15779	2.5	1.08	67.4
ES	13C-1,2,3,4,7,8,9-HpCDF	3.63e+07	0.46 y	40:58	0.92	146	15779	2.5	1.35	73.1
ES	13C-OCDF	5.17e+07	0.90 y	44:15	1.04	184	12919	2.5	0.984	46.2
CS	37C1-2,3,7,8-TCDD	2.70e+07		27:18	0.99	63.5			12.6	79.6
CS	13C-1,2,3,4,7-PeCDD	5.35e+07	1.66 y	32:19	0.77	161	9930	2.5	0.575	81.0
CS	13C-1,2,3,4,6-PeCDF	8.44e+07	1.57 y	30:48	0.79	180	16241	2.5	0.720	90.3
CS	13C-1,2,3,4,6,9-HxCDF	6.32e+07	0.53 y	36:14	1.41	165	34901	2.5	1.95	83.0
CS	13C-1,2,3,4,6,8,9-HpCDF	4.01e+07	0.47 y	39:42	0.91	163	15779	2.5	1.37	81.9
NA	n/a	*	* n	NotF>	Div0	*	3173	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	8.58e+07	0.83 y	26:37	-	24.4	2362	2.5	-	-
JS	13C-1,2,3,4-TCDF	1.18e+08	0.79 y	24:57	-	21.1	5901	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	2.70e+07	1.31 y	37:05	-	12.3	6830	2.5	-	-

*ok*  
*ok + Apr 1/09*  
*ok*

Analyst: *Me*  
 Date: *2/2/09*  
*ok*  
 7 April 09

SS	37Cl-2,3,7,8-TCDD	2.70e+07		27:18	1.00	79.3			16.0	99.5
SS	13C-1,2,3,4,7-PeCDD	5.35e+07	1.66 y	32:19	0.93	206	9930	2.5	0.953	104
SS	13C-1,2,3,4,6-PeCDF	8.44e+07	1.57 y	30:48	0.94	205	16241	2.5	0.933	103
SS	13C-1,2,3,4,6,9-HxCDF	6.32e+07	0.53 y	36:14	0.80	225	34901	2.5	1.72	113
SS	13C-1,2,3,4,6,8,9-HpCDF	4.01e+07	0.47 y	39:42	0.79	240	15779	2.5	1.27	120
SBS	2,4,6,8-TCDF	2.59e+06	0.76 y	22:27	1.05	4.78	1713	2.5	0.0640	-
Ay	1,3,6,8-TCDD	3.03e+06	0.77 y	23:26	1.08	8.22	1666	2.5	0.0881	-
Ay	1,2,3,9-TCDD	*	* n	NotF>	1.08	*	1666	2.5	0.0881	-
Ay	1,2,8,9-TCDD	4.04e+04	1.17 y	28:20	1.08	0.109	1666	2.5	0.0881	-
Ay	1,2,4,7,9-PeCDD	4.68e+06	1.58 y	30:18	1.00	16.8	3622	2.5	0.323	-
Ay	1,2,3,8,9-PeCDD	3.01e+05	1.35 y	33:17	1.00	1.08	3622	2.5	0.323	-
Ay	1,2,4,6,7,9-HxCDD	3.41e+07	1.23 y	35:04	1.00	140	7297	2.5	0.669	-
Ay	1,2,3,4,6,7,9-HpCDD	3.62e+08	1.04 y	39:32	0.97	1760	21529	2.5	2.39	-
Ay	1,3,6,8-TCDF	7.48e+05	0.74 y	21:17	1.05	1.38	1713	2.5	0.0640	-
Ay	2,3,4,8-TCDF	4.25e+05	0.77 y	26:15	1.05	0.784	1713	2.5	0.0640	-
Ay	1,2,8,9-TCDF	*	* n	NotF>	1.05	*	1713	2.5	0.0640	-
Ay	1,3,4,6,8-PeCDF	1.61e+07	1.71 y	28:30	1.05	29.7	1301	2.5	0.0486	-
Ay	1,2,3,8,9-PeCDF	1.45e+05	1.30 y	33:35	1.00	0.328	2696	2.5	0.143	-
Ay	1,2,3,4,6,8-HxCDF	1.13e+07	1.23 y	34:24	1.15	31.3	4043	2.5	0.162	-
Tot	Total Tetra-Dioxins	1.02e+07	0.77 y	23:26	1.08	27.6	1666	2.5	0.0881	-
Tot	Total Penta-Dioxins	1.59e+07	1.58 y	30:18	1.00	57.1	3622	2.5	0.323	-
Tot	Total Hexa-Dioxins	9.22e+07	1.23 y	35:04	1.00	380	7297	2.5	0.669	-
Tot	Total Hepta-Dioxins	5.57e+08	1.04 y	39:32	0.97	2710	21529	2.5	2.39	-
Tot	Total Tetra-Furans	2.34e+07	0.74 y	21:17	1.05	43.2	1713	2.5	0.0640	-
Tot	Total Penta-Furans	2.08e+07	1.73 y	30:05	1.00	47.2	2696	2.5	0.143	-
Tot	Total Hexa-Furans	1.08e+08	1.23 y	34:24	1.15	299	4043	2.5	0.162	-
Tot	Total Hepta-Furans	2.06e+08	1.04 y	39:13	1.35	756	6327	2.5	0.345	-
Tot	TCDD EMPC	1.07e+07	0.77 y	23:26	1.08	28.9	1666	2.5	0.0881	-
Tot	PeCDD EMPC	1.59e+07	1.58 y	30:18	1.00	57.1	3622	2.5	0.323	-
Tot	HxCDD EMPC	9.22e+07	1.23 y	35:04	1.00	380	7297	2.5	0.669	-
Tot	HpCDD EMPC	5.57e+08	1.04 y	39:32	0.97	2710	21529	2.5	2.39	-
Tot	TCDF EMPC	2.35e+07	0.74 y	21:17	1.05	43.4	1713	2.5	0.0640	-
Tot	PeCDF EMPC	2.10e+07	1.73 y	30:05	1.00	47.5	2696	2.5	0.143	-
Tot	HxCDF EMPC	1.11e+08	1.23 y	34:24	1.15	307	4043	2.5	0.162	-
Tot	HpCDF EMPC	2.06e+08	1.04 y	39:13	1.35	756	6327	2.5	0.345	-
AS	13C-1,3,6,8-TCDD	6.51e+07	0.82 y	23:25	1.09	139	2362	2.5	0.0968	69.8
AS	13C-1,3,6,8-TCDF	1.15e+08	0.78 y	21:15	1.09	180	5901	2.5	0.191	90.1
DPE	HxCDFE	*		NotF>	-	*			-	-
DPE	HpCDFE	*		NotF>	-	*			-	-
DPE	OCDFE	*		NotF>	-	*			-	-
DPE	NCDPE	*		NotF>	-	*			-	-
DPE	DCDFE	*		NotF>	-	*			-	-
LMC	Fn1 check mass	*		NotF>	-	*			-	-
LMC	Fn2 check mass	*		NotF>	-	*			-	-
LMC	Fn3 check mass	*		NotF>	-	*			-	-
LMC	Fn4 check mass	*		NotF>	-	*			-	-
LMC	Fn5 check mass	*		NotF>	-	*			-	-

no





Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDD EMPC Function: 1 Run #: 11 Checkcode: 5119  
 File Name: 090325P2 Sample #: 4 Sample text: P1193\_6679\_007 PO-UP-22-SS-A-090313 10.\*

Acquired: 26-MAR-09 01:23:42 Processed: 26-MAR-09 08:42:18

Total Conc.: 28.912 Unnamed Conc.: 19.823 Homolog count: 17 ✓

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
23:26	1.322e+06	n	1.712e+06	n	0.77 y	3.034e+06	3.034e+06	2.04e+02	y	8.22 1,3,6,8-TCDD
23:49	8.962e+05	n	1.146e+06	n	0.78 y	2.042e+06	2.042e+06	1.26e+02	y	5.54
24:17	1.369e+05	n	1.650e+05	n	0.83 y	3.019e+05	3.019e+05	1.91e+01	y	0.818
24:56	1.269e+04	n	1.014e+04	n	1.25 n	2.282e+04	1.795e+04	2.21e+00	n	0.0487
25:07	1.301e+05	n	1.811e+05	n	0.72 y	3.112e+05	3.112e+05	2.27e+01	y	0.844
25:22	2.757e+05	n	3.411e+05	n	0.81 y	6.168e+05	6.168e+05	3.73e+01	y	1.67
25:34	3.241e+05	n	4.056e+05	n	0.80 y	7.297e+05	7.297e+05	5.18e+01	y	1.98
25:46	1.106e+05	n	1.214e+05	n	0.91 n	2.320e+05	2.149e+05	1.67e+01	y	0.583
26:02	4.735e+04	n	6.184e+04	n	0.77 y	1.092e+05	1.092e+05	8.91e+00	y	0.296
26:13	1.063e+05	n	1.446e+05	n	0.74 y	2.509e+05	2.509e+05	2.11e+01	y	0.680
26:37	2.431e+05	n	3.307e+05	n	0.74 y	5.738e+05	5.738e+05	3.98e+01	y	1.56
26:46	2.432e+04	n	2.406e+04	n	1.01 n	4.838e+04	4.259e+04	6.44e+00	y	0.115
27:01	8.564e+05	n	1.019e+06	n	0.84 y	1.876e+06	1.876e+06	1.20e+02	y	5.09
27:18	1.177e+05	n	1.608e+05	n	0.73 y	2.785e+05	2.785e+05	2.33e+01	y	0.755 2,3,7,8-TCDD
27:38	8.510e+04	n	9.561e+04	n	0.89 n	1.807e+05	1.692e+05	1.34e+01	y	0.459
27:47	2.351e+04	n	3.205e+04	n	0.73 y	5.555e+04	5.555e+04	4.17e+00	y	0.151
28:20	2.668e+04	n	2.282e+04	n	1.17 n	4.950e+04	4.039e+04	4.73e+00	y	0.109 1,2,8,9-TCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDD EMPC Function: 2 Run #: 11 Checkcode: 5119  
 File Name: 090325P2 Sample #: 4 Sample text: P1193\_6679\_007 PO-UP-22-SS-A-090313 10.\*

Acquired: 26-MAR-09 01:23:42 Processed: 26-MAR-09 08:42:18

Total Conc.: 57.143 Unnamed Conc.: 34.869 Homolog count: 10 ✓

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
30:18	2.861e+06	n	1.815e+06	n	1.58 y	4.676e+06	4.676e+06	9.41e+01	y	16.8 1,2,4,7,9-PeCDD
30:50	9.280e+05	n	6.164e+05	n	1.51 y	1.544e+06	1.544e+06	4.83e+01	y	5.53
31:24	1.398e+06	n	8.753e+05	n	1.60 y	2.274e+06	2.274e+06	6.91e+01	y	8.15
31:35	8.963e+05	n	5.805e+05	n	1.54 y	1.477e+06	1.477e+06	4.57e+01	y	5.29
31:41	1.074e+06	n	6.904e+05	n	1.56 y	1.765e+06	1.765e+06	4.87e+01	y	6.32
31:57	9.303e+05	n	6.516e+05	n	1.43 y	1.582e+06	1.582e+06	3.45e+01	y	5.67
32:20	4.515e+05	n	2.927e+05	n	1.54 y	7.442e+05	7.442e+05	2.35e+01	y	2.67
32:50	7.380e+05	n	5.017e+05	n	1.47 y	1.240e+06	1.240e+06	3.66e+01	y	4.44 1,2,3,7,8-PeCDD
32:56	2.123e+05	n	1.330e+05	n	1.60 y	3.453e+05	3.453e+05	9.76e+00	y	1.24
33:17	1.726e+05	n	1.282e+05	n	1.35 y	3.007e+05	3.007e+05	9.45e+00	y	1.08 1,2,3,8,9-PeCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDD EMPC Function: 3 Run #: 11 Checkcode: 5119  
 File Name: 090325P2 Sample #: 4 Sample text: P1193\_6679\_007 PO-UP-22-SS-A-090313 10.\*

Acquired: 26-MAR-09 01:23:42 Processed: 26-MAR-09 08:42:18

Total Conc.: 380.03 Unnamed Conc.: 175.338 Homolog count: 9 ✓



RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
35:04	1.876e+07	n	1.531e+07	n	1.23	y	3.406e+07	3.406e+07	5.89e+02	y	140 1,2,4,6,7,9-HxCDD
35:43	3.380e+06	y	2.874e+06	n	1.18	y	6.254e+06	6.254e+06	1.08e+02	y	25.8
35:52	4.305e+05	y	3.800e+05	y	1.13	y	8.105e+05	8.105e+05	1.38e+01	y	3.34
36:01	1.596e+07	y	1.326e+07	y	1.20	y	2.922e+07	2.922e+07	3.98e+02	y	120
36:09	2.717e+06	y	2.263e+06	y	1.20	y	4.980e+06	4.980e+06	6.19e+01	y	20.5
36:46	1.172e+06	y	9.959e+05	y	1.18	y	2.168e+06	2.168e+06	3.88e+01	y	9.18 1,2,3,4,7,8-HxCDD
36:53	4.935e+06	y	4.009e+06	y	1.23	y	8.944e+06	8.944e+06	1.41e+02	y	37.8 1,2,3,6,7,8-HxCDD
37:05	7.233e+05	y	5.965e+05	y	1.21	y	1.320e+06	1.320e+06	2.02e+01	y	5.43
37:11	2.467e+06	n	1.988e+06	y	1.24	y	4.455e+06	4.455e+06	6.56e+01	y	17.4 1,2,3,7,8,9-HxCDD
Totals Results Analytical Perspectives [Form: TOT]											

Totals class: HpCDD EMPC Function: 4 Run #: 11 Checkcode: 5119  
 File Name: 090325P2 Sample #: 4 Sample text: P1193\_6679\_007 PO-UP-22-SS-A-090313 10.»

Acquired: 26-MAR-09 01:23:42 Processed: 26-MAR-09 08:42:18

Total Conc.: 2706.2 Unnamed Conc.: \* Homolog count: 2 ✓

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
39:32	1.846e+08	n	1.778e+08	n	1.04	y	3.624e+08	3.624e+08	2.13e+03	y	1760 1,2,3,4,6,7,9-HpCDD
40:24	9.953e+07	n	9.451e+07	n	1.05	y	1.941e+08	1.941e+08	1.01e+03	y	944 1,2,3,4,6,7,8-HpCDD
Totals Results Analytical Perspectives [Form: TOT]											

Totals class: TCDF EMPC Function: 1 Run #: 11 Checkcode: 5119  
 File Name: 090325P2 Sample #: 4 Sample text: P1193\_6679\_007 PO-UP-22-SS-A-090313 10.»

Acquired: 26-MAR-09 01:23:42 Processed: 26-MAR-09 08:42:18

Total Conc.: 43.350 Unnamed Conc.: 33.658 Homolog count: 21 ✓

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
21:12	3.168e+05	n	4.309e+05	n	0.74	y	7.477e+05	7.477e+05	4.84e+01	y	1.38 1,3,6,8-TCDF
21:50	4.340e+05	n	5.316e+05	n	0.82	y	9.656e+05	9.656e+05	5.97e+01	y	1.78
22:27	1.122e+06	n	1.469e+06	n	0.76	y	2.591e+06	2.591e+06	1.54e+02	y	4.78 2,4,6,8-TCDF
23:00	1.149e+06	n	1.415e+06	n	0.81	y	2.565e+06	2.565e+06	1.04e+02	y	4.74
23:24	1.157e+06	n	1.417e+06	n	0.82	y	2.574e+06	2.574e+06	1.18e+02	y	4.75
23:51	7.631e+05	y	9.845e+05	y	0.78	y	1.748e+06	1.748e+06	1.12e+02	y	3.23
24:00	2.041e+05	y	2.886e+05	y	0.71	y	4.927e+05	4.927e+05	3.88e+01	y	0.910
24:10	4.464e+05	y	5.355e+05	y	0.83	y	9.819e+05	9.819e+05	7.23e+01	y	1.81
24:33	1.796e+05	y	2.646e+05	y	0.68	y	4.441e+05	4.441e+05	3.07e+01	y	0.820
24:42	3.202e+05	y	4.067e+05	y	0.79	y	7.269e+05	7.269e+05	4.88e+01	y	1.34
24:51	7.352e+05	y	9.659e+05	y	0.76	y	1.701e+06	1.701e+06	1.18e+02	y	3.14
24:58	4.938e+05	y	6.142e+05	y	0.80	y	1.108e+06	1.108e+06	6.29e+01	y	2.05
25:27	7.035e+05	n	9.337e+05	n	0.75	y	1.637e+06	1.637e+06	9.36e+01	y	3.02
25:43	2.803e+05	y	3.373e+05	y	0.83	y	6.176e+05	6.176e+05	4.46e+01	y	1.14
25:56	1.642e+05	y	1.969e+05	n	0.83	y	3.611e+05	3.611e+05	2.18e+01	y	0.667
26:09	1.861e+05	y	2.656e+05	y	0.70	y	4.517e+05	4.517e+05	3.99e+01	y	0.834
26:15	1.851e+05	y	2.395e+05	y	0.77	y	4.246e+05	4.246e+05	3.27e+01	y	0.784 2,3,4,8-TCDF
26:22	6.463e+05	y	8.399e+05	y	0.77	y	1.486e+06	1.486e+06	1.12e+02	y	2.74 2,3,7,8-TCDF
26:46	7.131e+05	n	8.940e+05	n	0.80	y	1.607e+06	1.607e+06	9.66e+01	y	2.97
27:00	7.804e+04	y	1.140e+05	n	0.68	y	1.920e+05	1.920e+05	1.71e+01	y	0.355
27:17	2.401e+04	y	3.989e+04	y	0.60	n	6.390e+04	5.520e+04	4.71e+00	y	0.102
Totals Results Analytical Perspectives [Form: TOT]											

Totals class: PeCDF EMPC Function: 2 Run #: 11 Checkcode: 5119  
 File Name: 090325P2 Sample #: 4 Sample text: P1193\_6679\_007 PO-UP-22-SS-A-090313 10.»

Acquired: 26-MAR-09 01:23:42 Processed: 26-MAR-09 08:42:18

Total Conc.: 47.522 Unnamed Conc.: 37.956 Homolog count: 12 ✓

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
30:05	9.647e+05	n	5.569e+05	n	1.73	y	1.522e+06	1.522e+06	4.63e+01	y	3.45
30:15	5.301e+06	n	3.279e+06	n	1.62	y	8.580e+06	8.580e+06	2.55e+02	y	19.5
30:39	2.737e+05	n	1.676e+05	n	1.63	y	4.413e+05	4.413e+05	1.33e+01	y	1.00
30:54	1.776e+06	n	1.142e+06	n	1.56	y	2.918e+06	2.918e+06	8.12e+01	y	6.62
31:08	4.302e+05	n	2.583e+05	n	1.67	y	6.885e+05	6.885e+05	2.69e+01	y	1.56
31:21	8.210e+05	n	4.903e+05	n	1.67	y	1.311e+06	1.311e+06	4.52e+01	y	3.03 1,2,3,7,8-PeCDF
31:40	1.155e+06	n	6.960e+05	n	1.66	y	1.851e+06	1.851e+06	4.62e+01	y	4.20
32:00	8.737e+04	n	5.423e+04	n	1.61	y	1.416e+05	1.416e+05	5.79e+00	y	0.321
32:13	5.466e+04	n	3.219e+04	n	1.70	y	8.685e+04	8.685e+04	3.18e+00	y	0.197
32:21	3.240e+05	n	1.868e+05	n	1.73	y	5.109e+05	5.109e+05	1.73e+01	y	1.16
32:30	1.736e+06	n	1.051e+06	n	1.65	y	2.787e+06	2.787e+06	7.08e+01	y	6.21 2,3,4,7,8-PeCDF
33:35	8.797e+04	n	6.769e+04	n	1.30	n	1.557e+05	1.447e+05	5.47e+00	y	0.328 1,2,3,8,9-PeCDF
Totals Results Analytical Perspectives [Form: TOT]											

Totals class: HxCDF EMPC Function: 3 Run #: 11 Checkcode: 5119  
 File Name: 090325P2 Sample #: 4 Sample text: P1193\_6679\_007 PO-UP-22-SS-A-090313 10.»

Acquired: 26-MAR-09 01:23:42 Processed: 26-MAR-09 08:42:18

Total Conc.: 306.63 Unnamed Conc.: 238.130 Homolog count: 11 ✓

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
34:24	6.245e+06	n	5.074e+06	n	1.23	y	1.132e+07	1.132e+07	3.62e+02	y	31.3 1,2,3,4,6,8-HxCDF
34:36	2.051e+07	n	1.655e+07	n	1.24	y	3.706e+07	3.706e+07	1.16e+03	y	103
35:02	7.427e+05	y	7.621e+05	y	0.97	n	1.505e+06	1.342e+06	4.41e+01	y	3.71
35:16	2.533e+07	n	2.048e+07	n	1.24	y	4.580e+07	4.580e+07	1.46e+03	y	127
35:32	2.221e+05	y	2.183e+05	y	1.02	n	4.403e+05	4.011e+05	1.55e+01	y	1.11
35:41	4.957e+05	y	4.450e+05	y	1.11	y	9.406e+05	9.406e+05	3.06e+01	y	2.60
35:48	3.308e+06	y	2.766e+06	y	1.20	y	6.073e+06	6.073e+06	1.85e+02	y	16.6 1,2,3,4,7,8-HxCDF
35:56	1.565e+06	y	1.363e+06	y	1.15	y	2.928e+06	2.928e+06	8.16e+01	y	7.26 1,2,3,6,7,8-HxCDF
36:15	2.689e+05	y	2.453e+05	y	1.10	y	5.142e+05	5.142e+05	1.43e+01	y	1.42
36:39	2.097e+06	y	1.750e+06	y	1.20	y	3.847e+06	3.847e+06	1.18e+02	y	10.4 2,3,4,6,7,8-HxCDF
37:32	4.915e+05	y	5.016e+05	y	0.98	n	9.931e+05	8.879e+05	2.87e+01	y	2.88 1,2,3,7,8,9-HxCDF
Totals Results Analytical Perspectives [Form: TOT]											

Totals class: HpCDF EMPC Function: 4 Run #: 11 Checkcode: 5119  
 File Name: 090325P2 Sample #: 4 Sample text: P1193\_6679\_007 PO-UP-22-SS-A-090313 10.»

Acquired: 26-MAR-09 01:23:42 Processed: 26-MAR-09 08:42:18

Total Conc.: 755.87 Unnamed Conc.: 486.325 Homolog count: 4 ✓

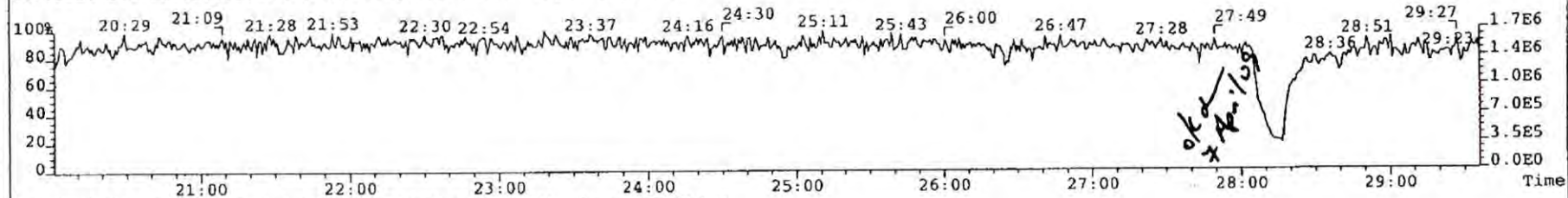
RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
39:13	3.815e+07	n	3.651e+07	n	1.04	y	7.466e+07	7.466e+07	1.57e+03	y	258 1,2,3,4,6,7,8-HpCDF
39:32	1.212e+06	n	1.091e+06	n	1.11	y	2.303e+06	2.303e+06	3.76e+01	y	8.69



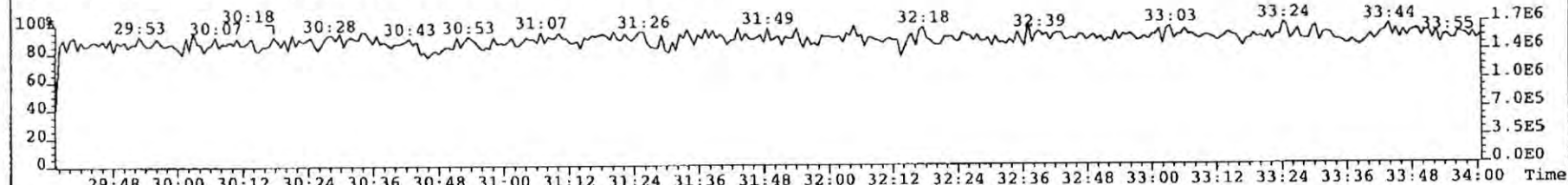
39:45	6.555e+07	n	6.105e+07	n	1.07	y	1.266e+08	1.266e+08	2.54e+03	y	478
40:59	1.350e+06	n	1.347e+06	n	1.00	y	2.698e+06	2.698e+06	4.86e+01	y	11.2 1,2,3,4,7,8,9-HpCDF



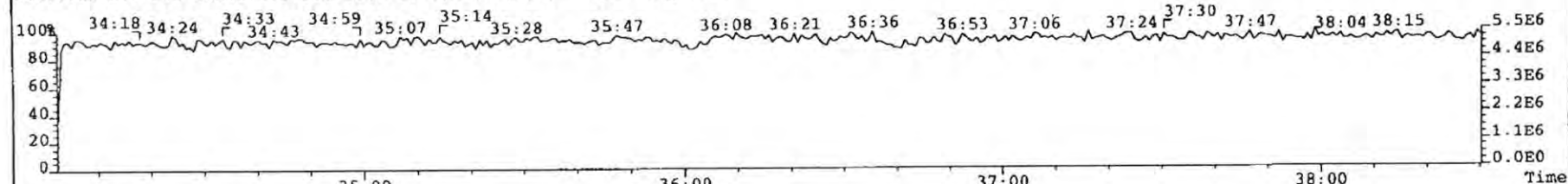
File: 090325P2 Acq: 26-MAR-2009 01:23:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: P1193\_6679\_007 PO: WP-22-SS-A-090313 10.04g Vial# 24 File Text: AP DB5  
316.9824 S:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



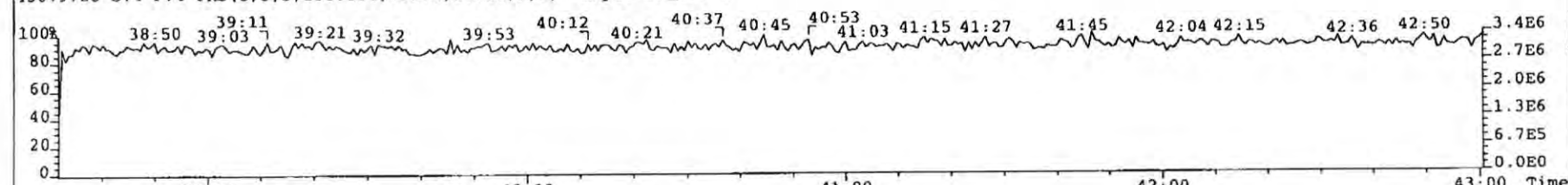
366.9792 S:4 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



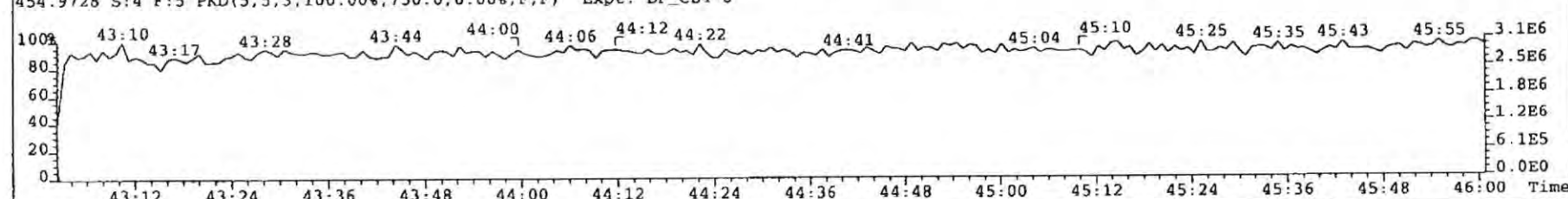
380.9760 S:4 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



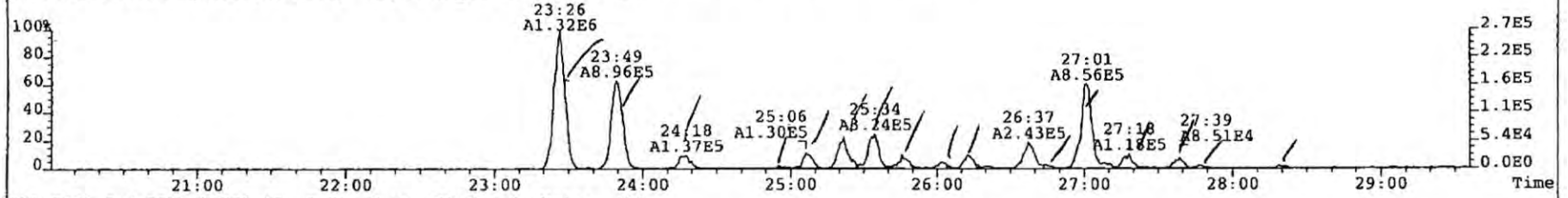
430.9728 S:4 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



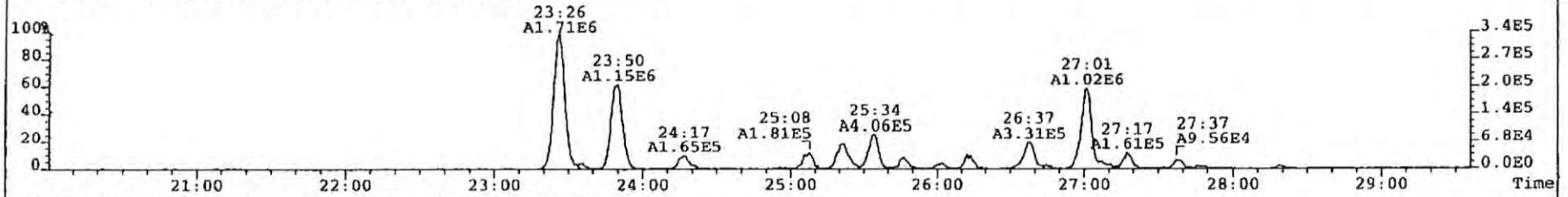
454.9728 S:4 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



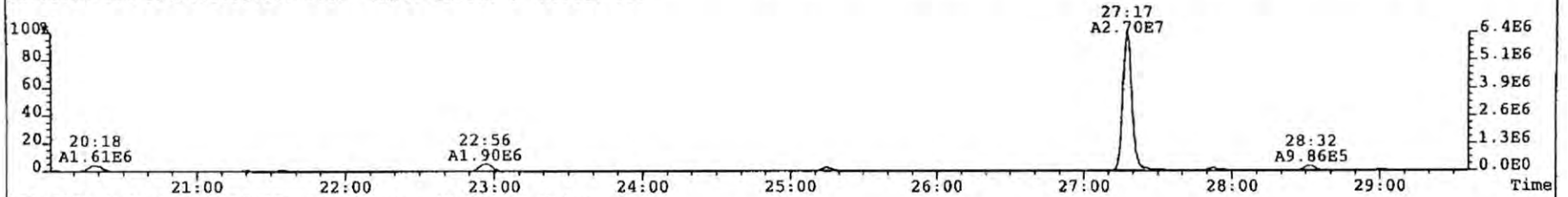
File: 090325P2 Acq: 26-MAR-2009 01:23:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: P1193\_6679\_007 PO-UP-22-SS-A-090313 10.04g Vial# 24 File Text: AP DB5  
319.8965 S:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 209



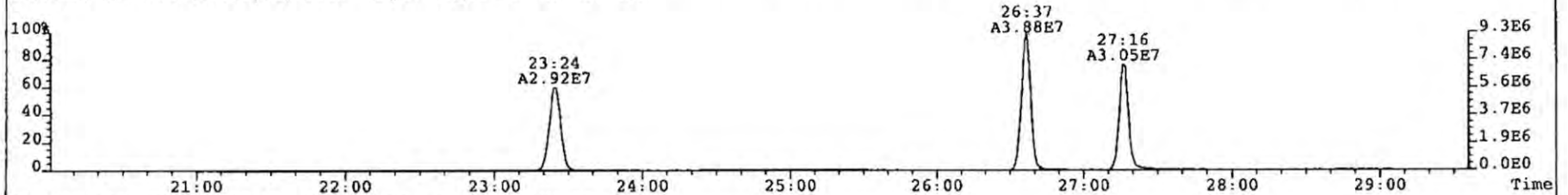
321.8936 S:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 124



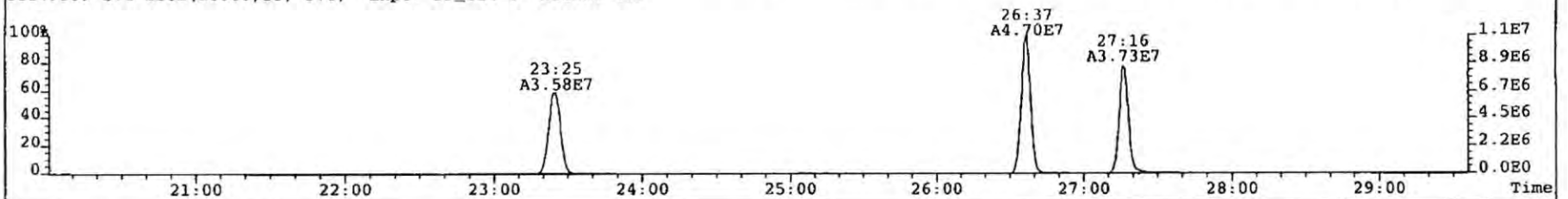
327.8850 S:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 108



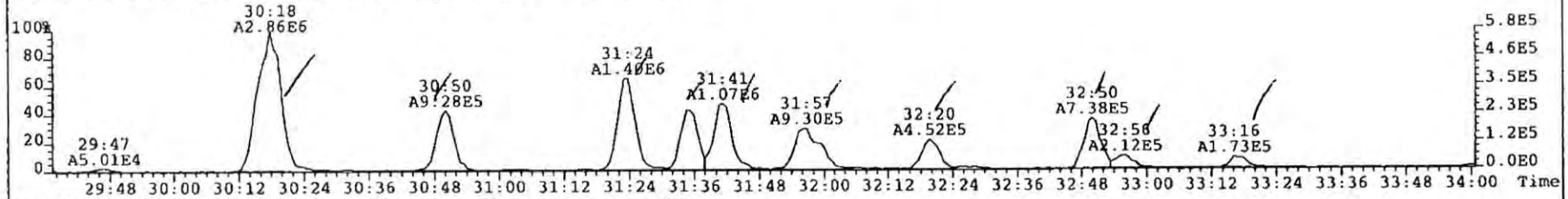
331.9368 S:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 818



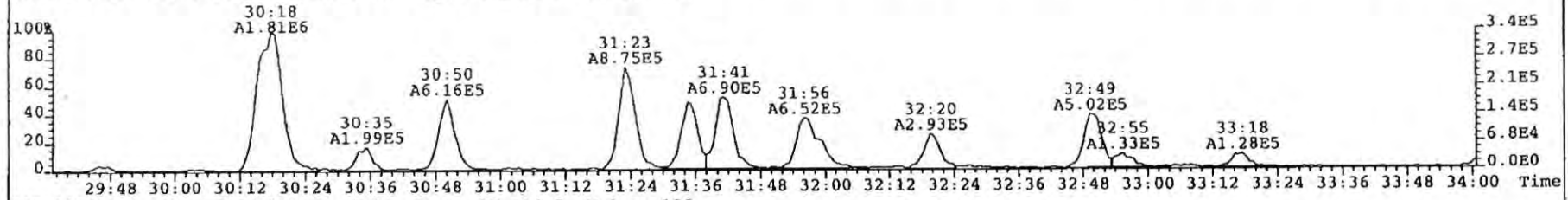
333.9339 S:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 112



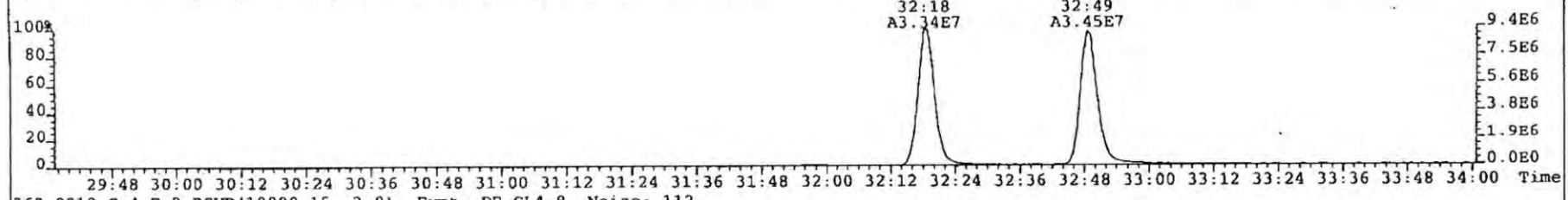
File: 090325P2 Acq: 26-MAR-2009 01:23:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: P1193\_6679\_007 PO-UP-22-SS-A-090313 10.04g Vial# 24 File Text: AP DB5  
355.8546 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 634



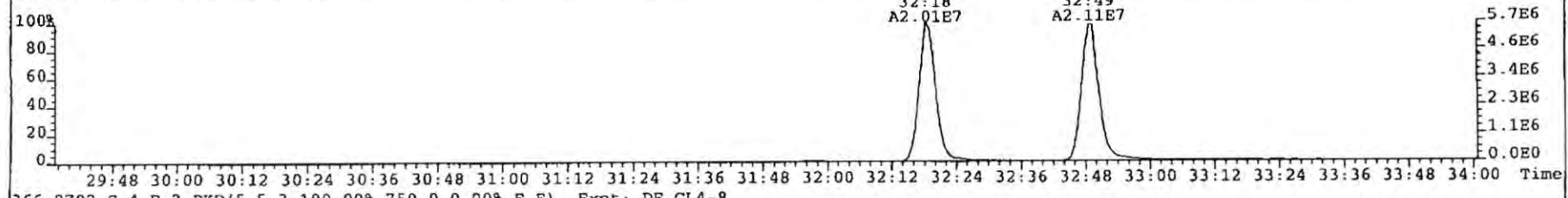
357.8517 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 966



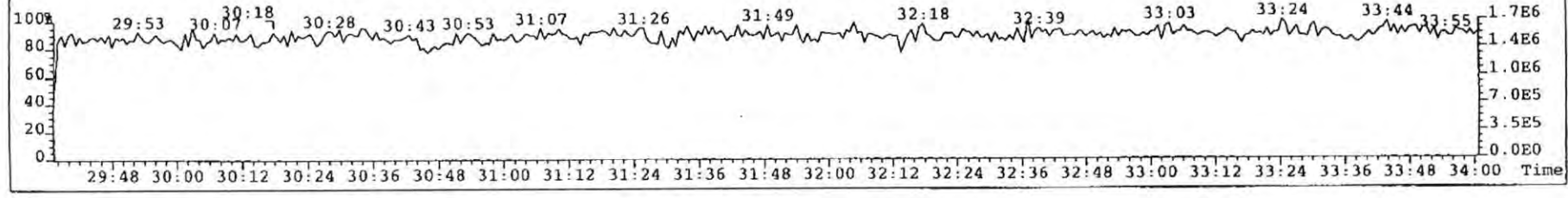
367.8949 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 106



369.8919 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 112

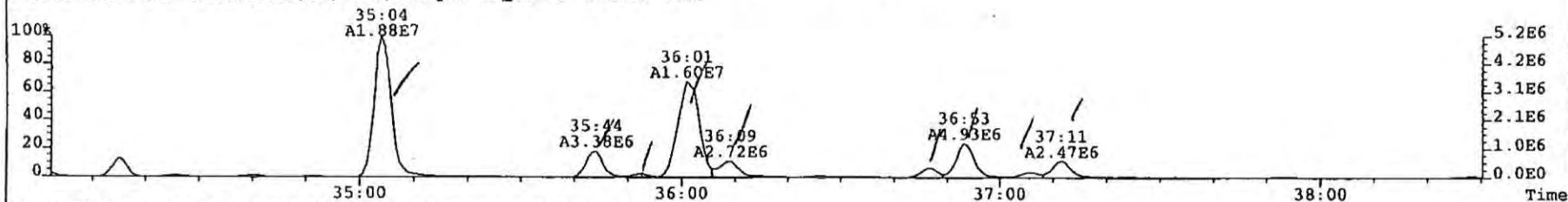


366.9792 S:4 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

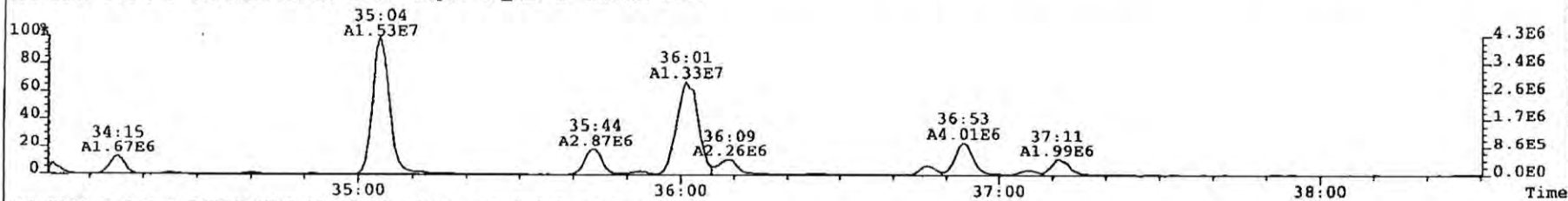




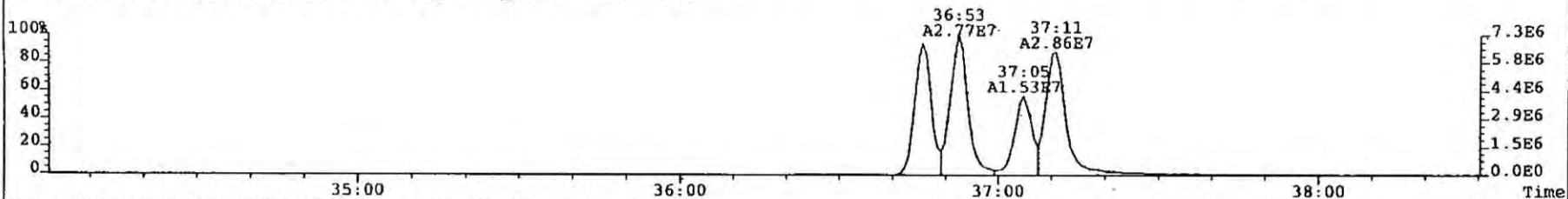
File: 090325P2 Acq: 26-MAR-2009 01:23:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: P1193\_6679\_007 PO-UP-22-SS-A-090313 10.04g Vial# 24 File Text: AP DB5  
389.8156 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 2358



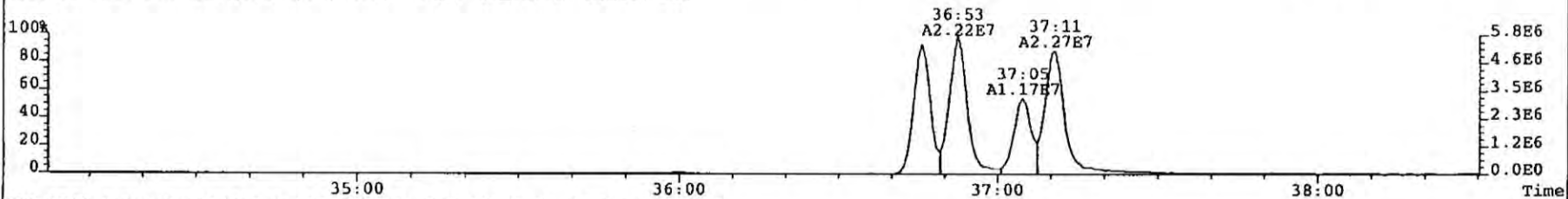
391.8127 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 2747



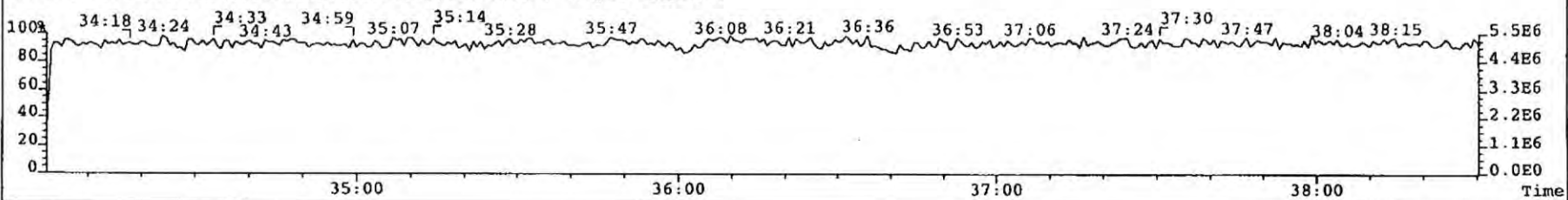
401.8559 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 116



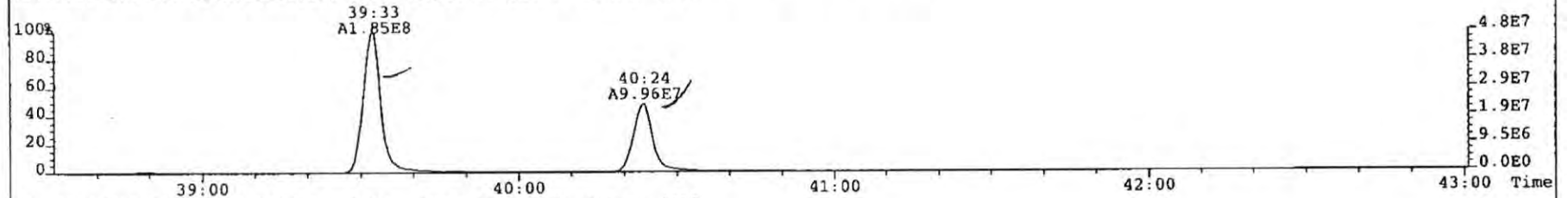
403.8530 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 110



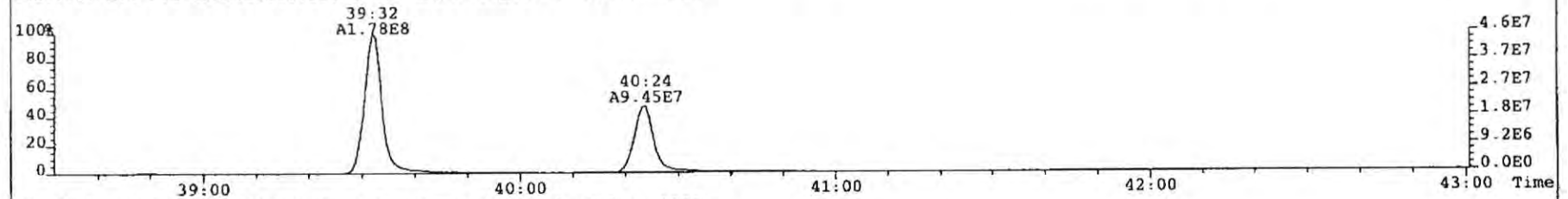
380.9760 S:4 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



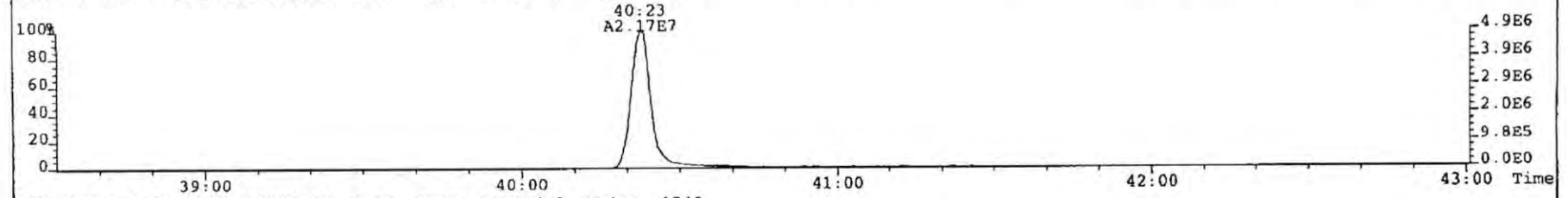
File: 090325P2 Acq: 26-MAR-2009 01:23:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: P1193\_6679\_007 PO-UP-22-SS-A-090313 10.04g Vial# 24 File Text: AP DB5  
423.7767 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 5457



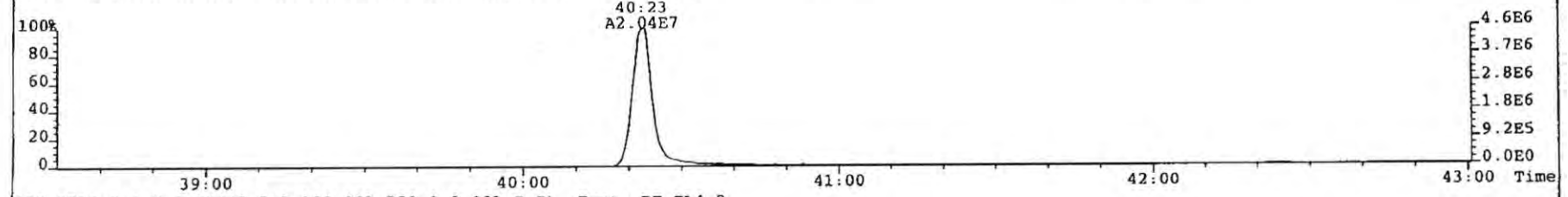
425.7737 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 4639



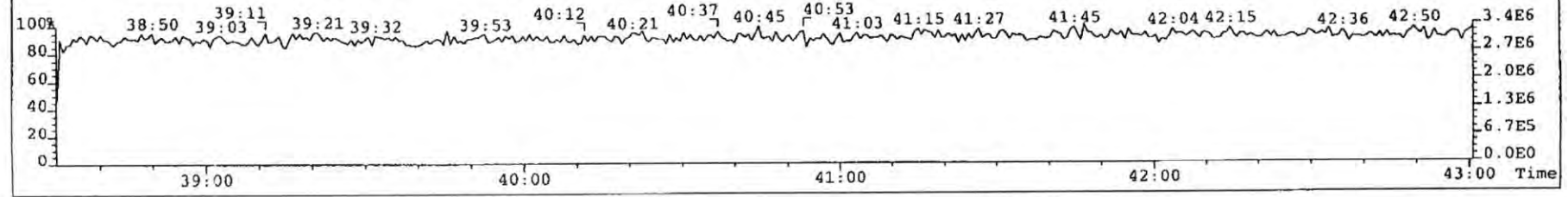
435.8169 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1188



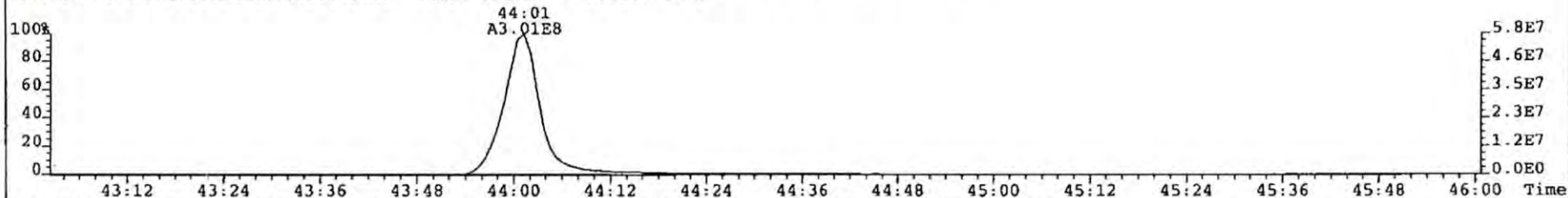
437.8140 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1340



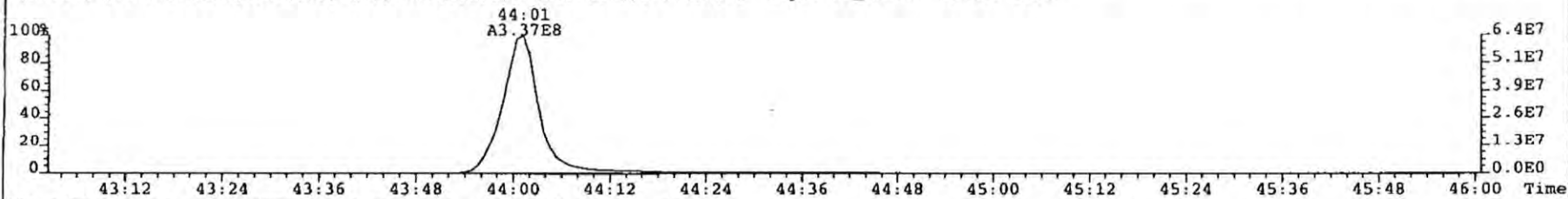
430.9728 S:4 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



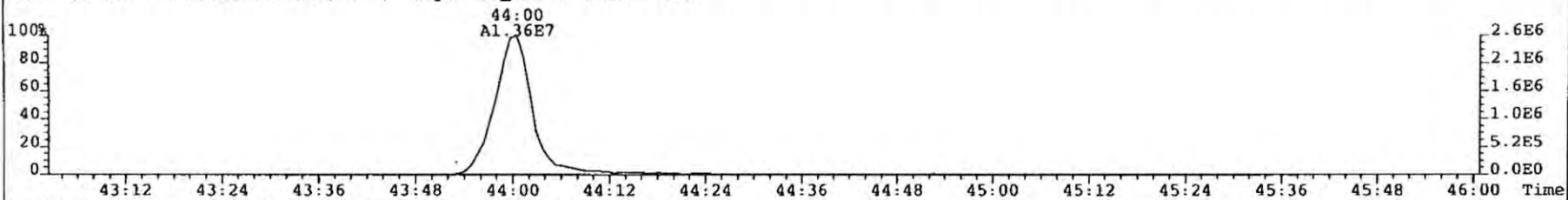
File: 090325P2 Acq: 26-MAR-2009 01:23:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: P1193\_6679\_007 PO-UP-22-SS-A-090313 10.04g Vial# 24 File Text: AP DB5  
457.7377 S:4 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 2671



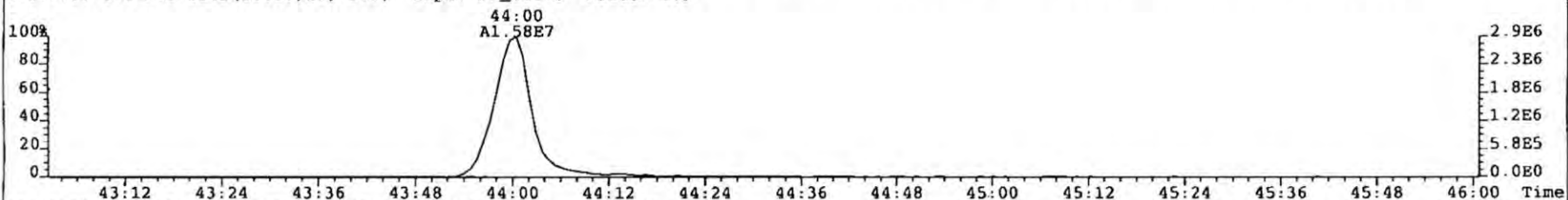
459.7348 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 5205



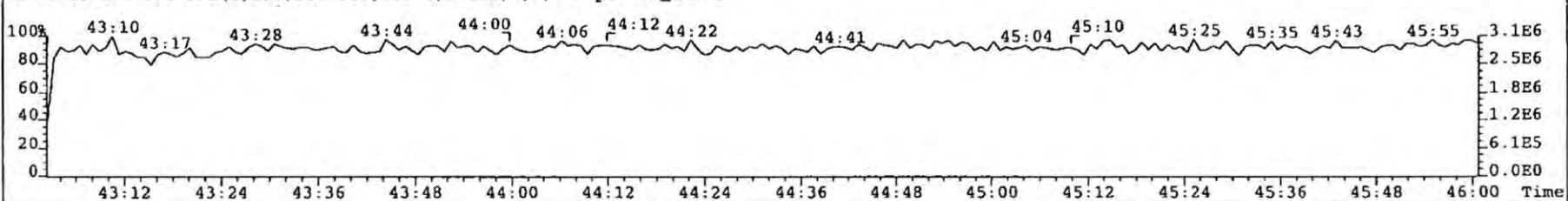
469.7780 S:4 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 688



471.7750 S:4 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 469

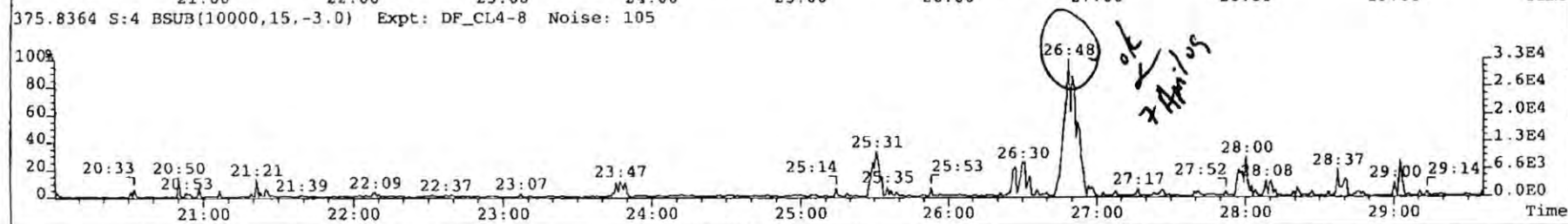
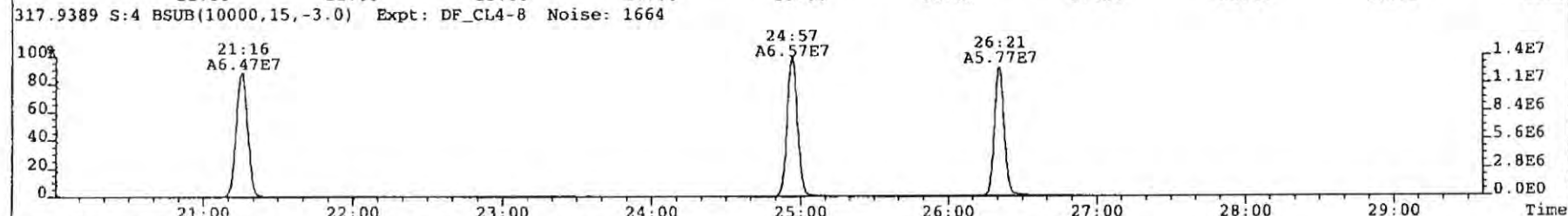
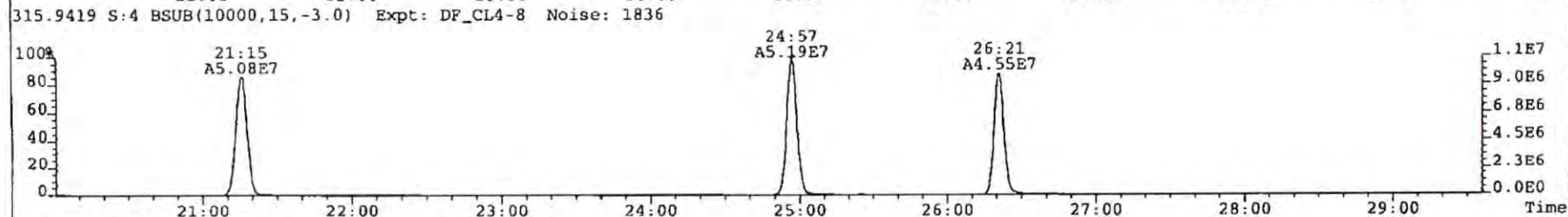
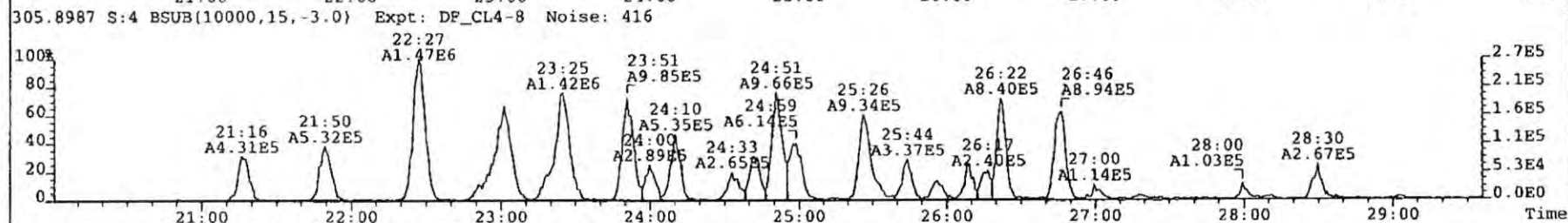
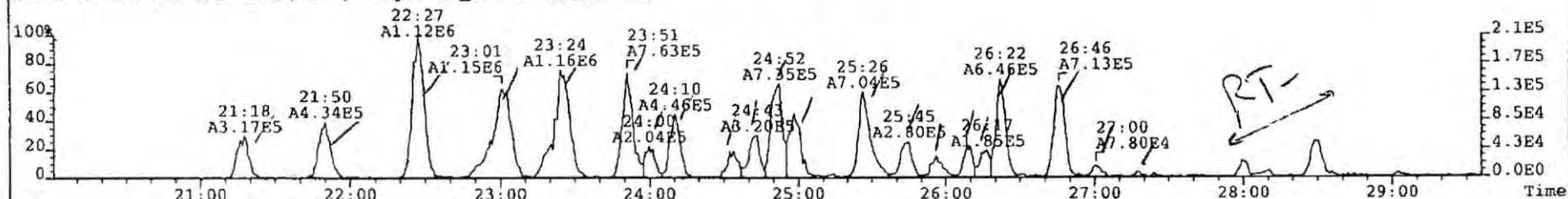


454.9728 S:4 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

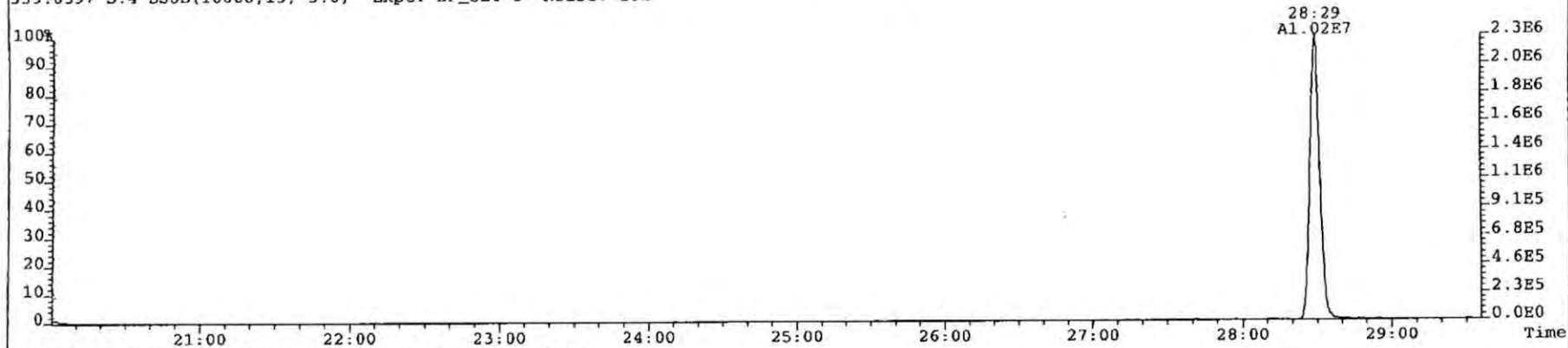




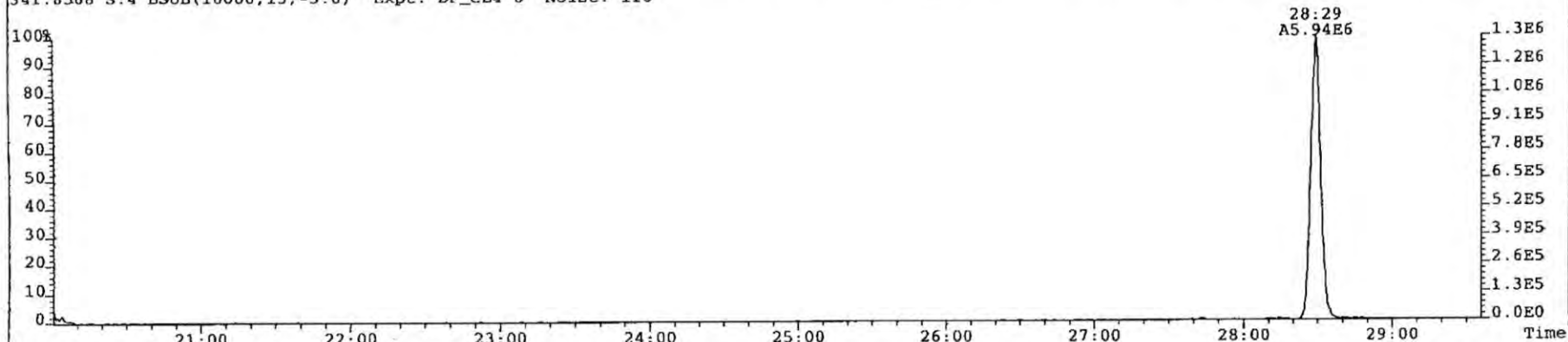
File: 090325P2 Acq: 26-MAR-2009 01:23:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: P1193\_6679\_007 PO-UP-22-SS-A-090313 10.04g Vial# 24 File Text: AP DB5  
303.9016 S:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 310



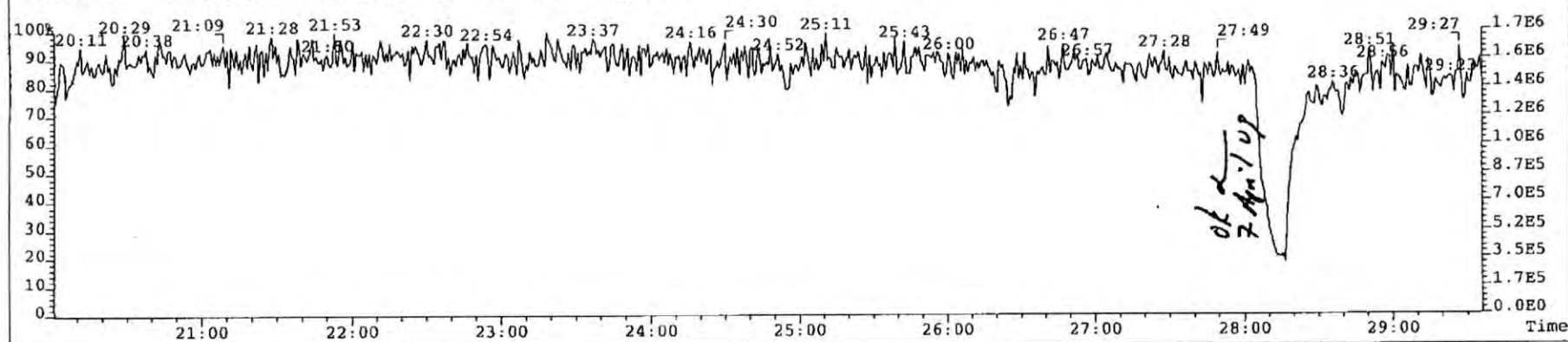
File: 090325P2 Acq: 26-MAR-2009 01:23:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: P1193\_6679\_007 PO-UP-22-SS-A-090313 10.04g Vial# 24 File Text: AP DB5  
339.8597 S:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 101



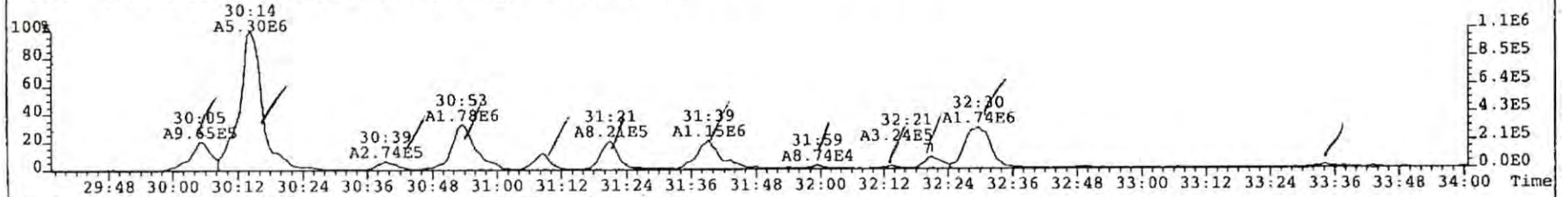
341.8568 S:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 116



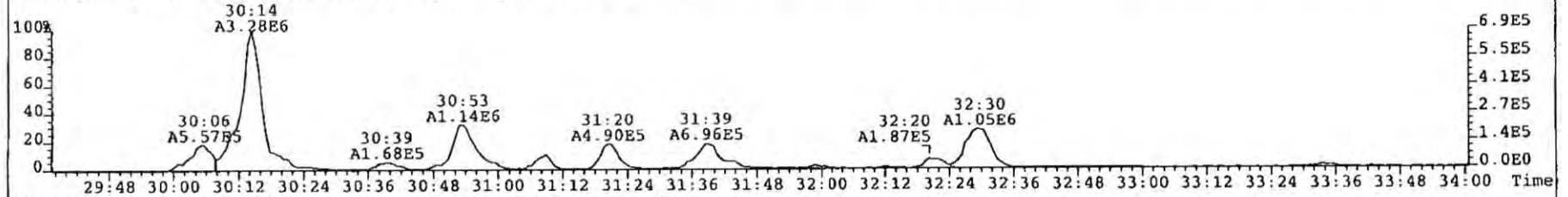
316.9824 S:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



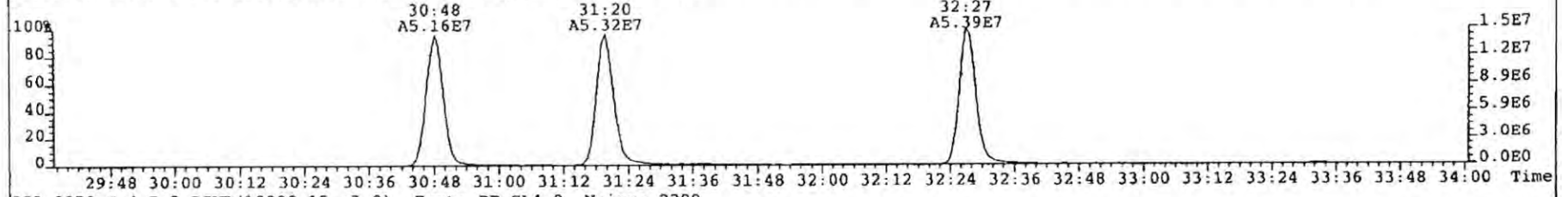
File: 090325P2 Acq: 26-MAR-2009 01:23:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: P1193\_6679\_007 PO-UP-22-SS-A-090313 10.04g Vial# 24 File Text: AP DB5  
339.8597 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 622



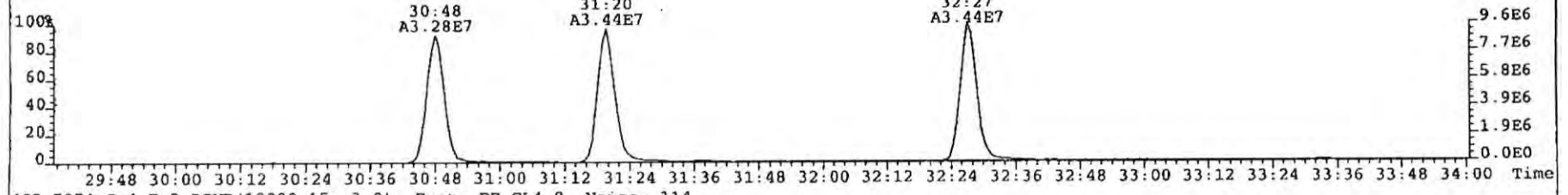
341.8568 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 447



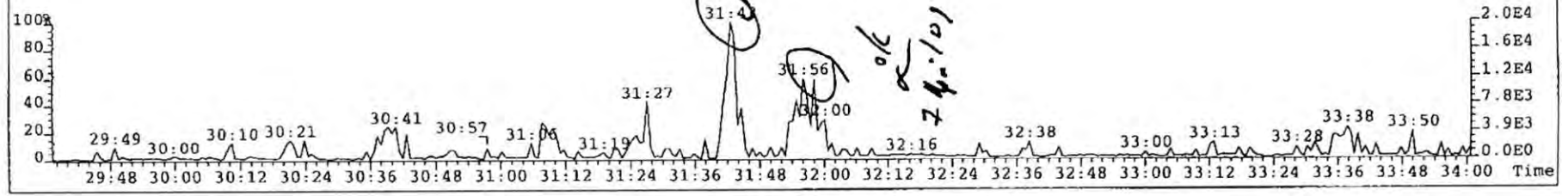
351.9000 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 6415



353.8970 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 2299

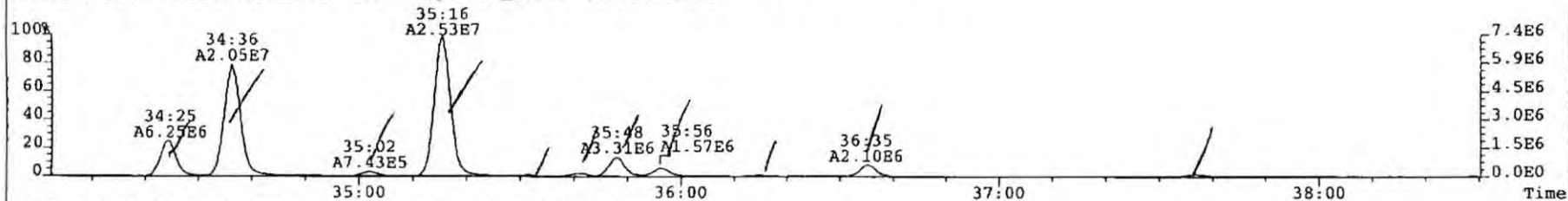


409.7974 S:4 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 114

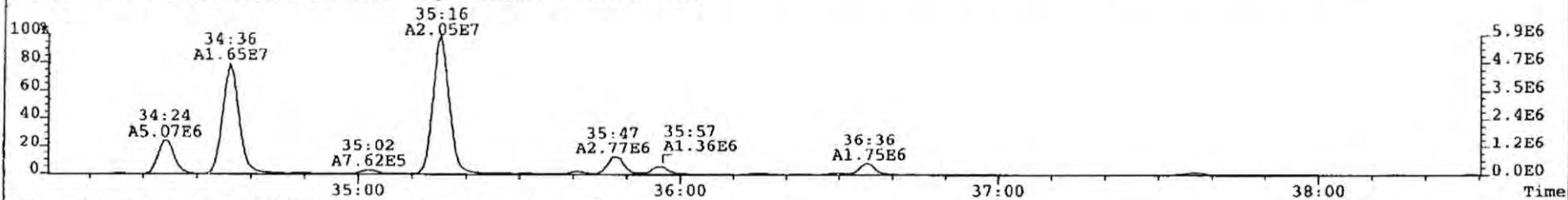




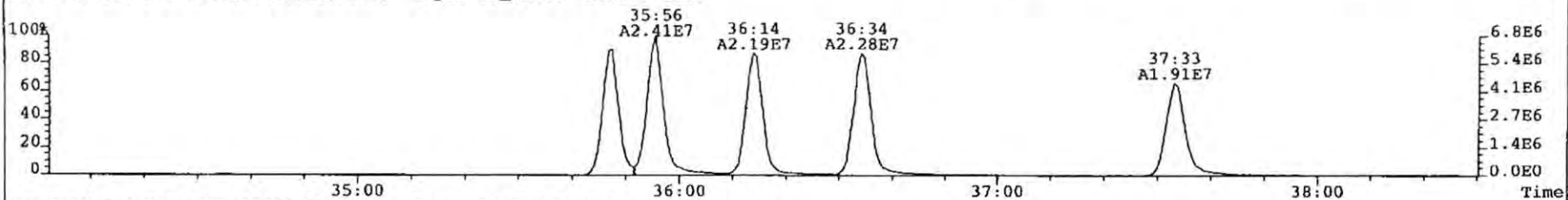
File: 090325P2 Acq: 26-MAR-2009 01:23:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: P1193\_6679\_007 PO-UP-22-SS-A-090313 10.04g Vial# 24 File Text: AP DB5  
373.8207 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 12435



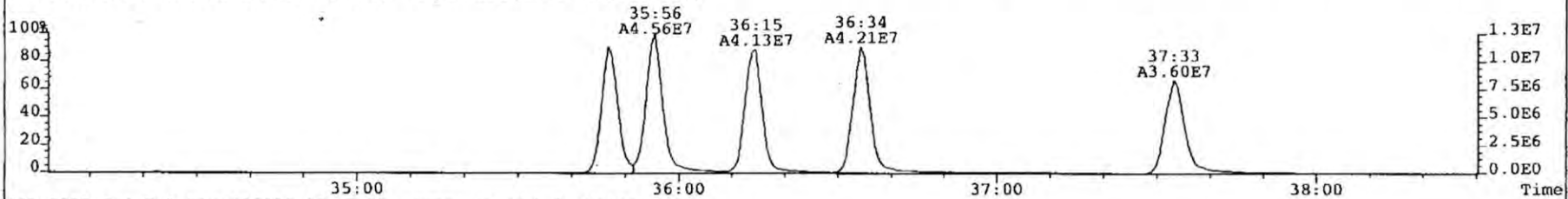
375.8178 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 8602



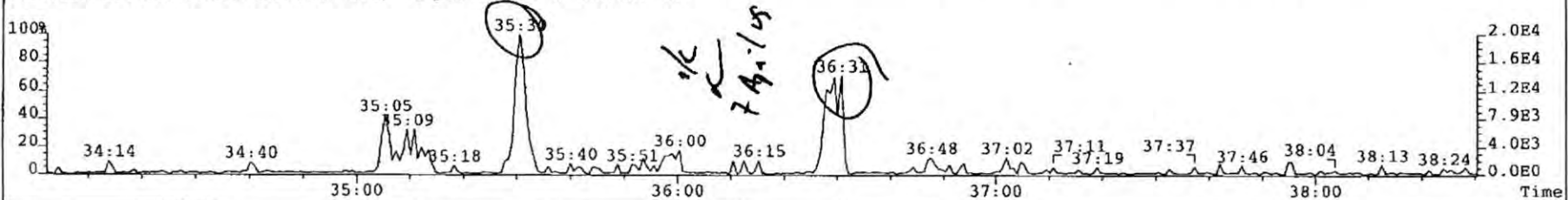
383.8639 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1804



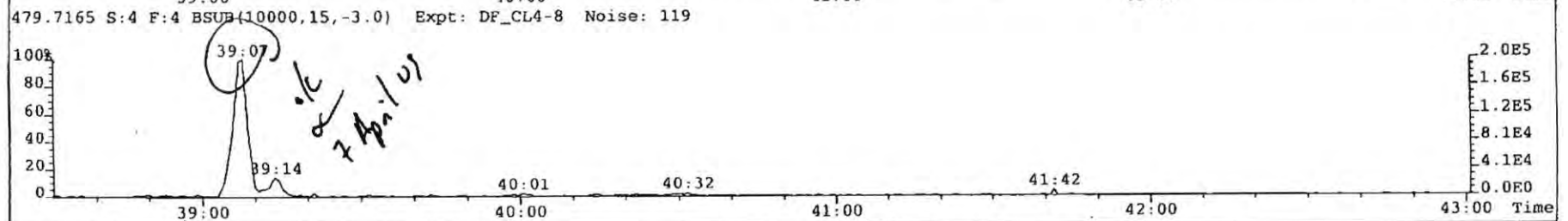
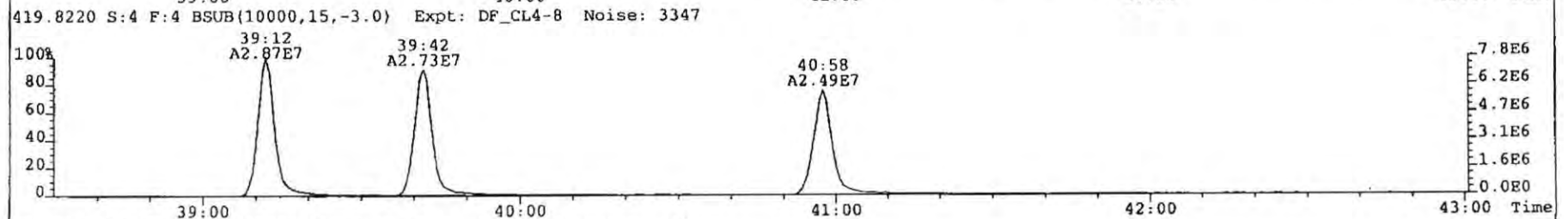
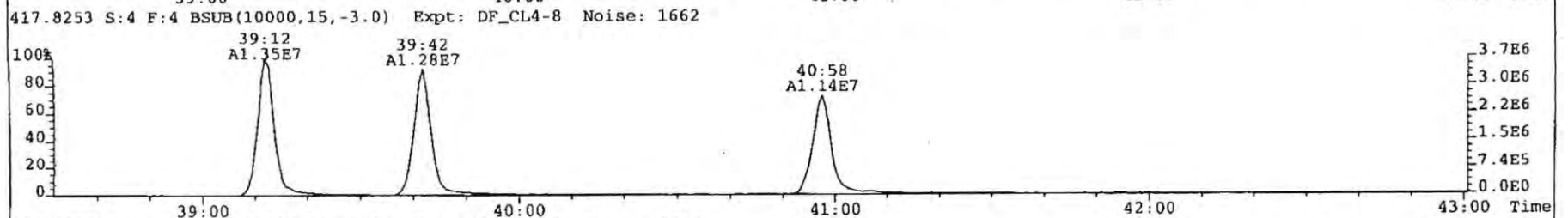
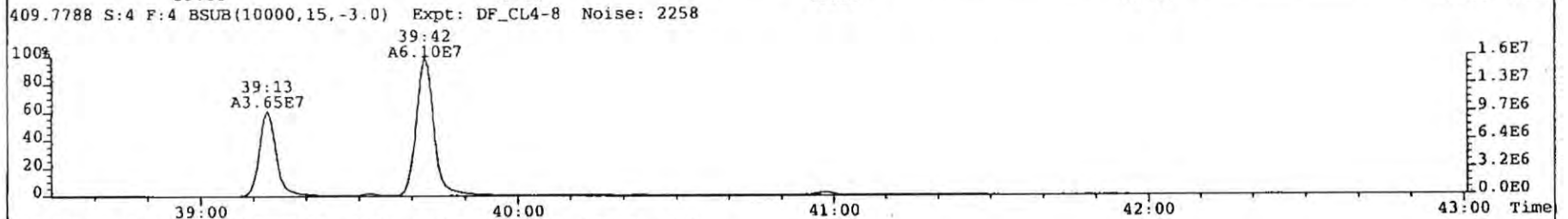
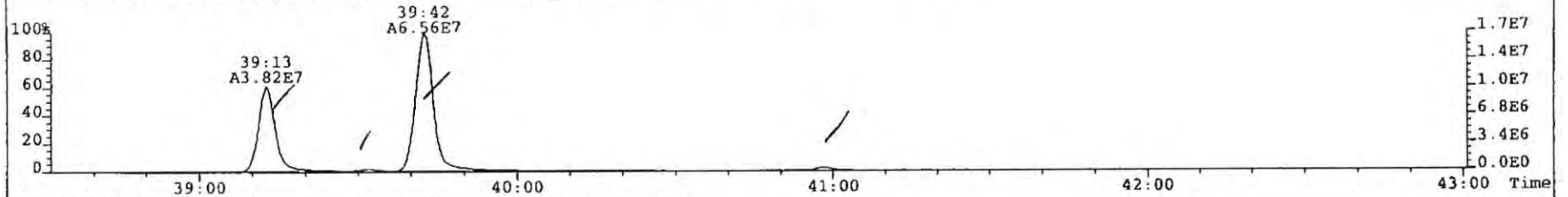
385.8610 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 3909



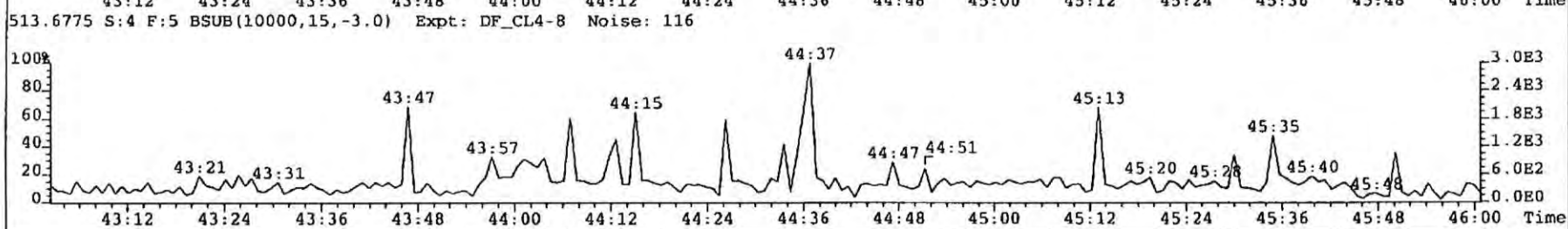
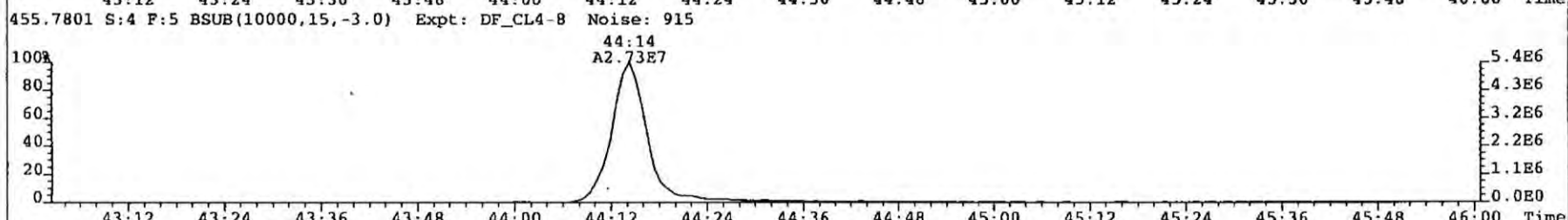
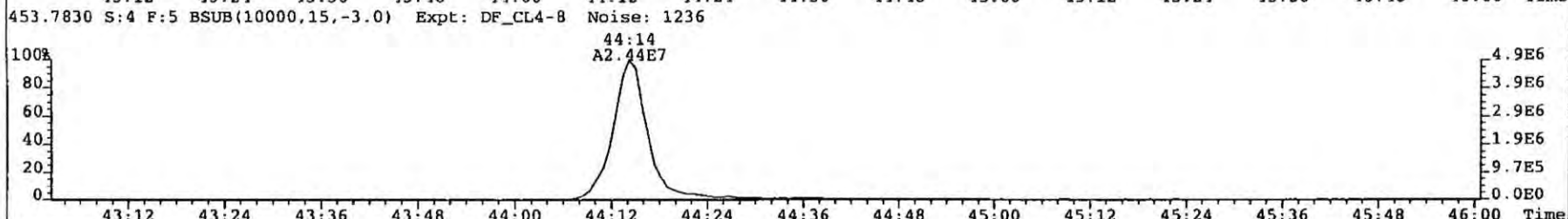
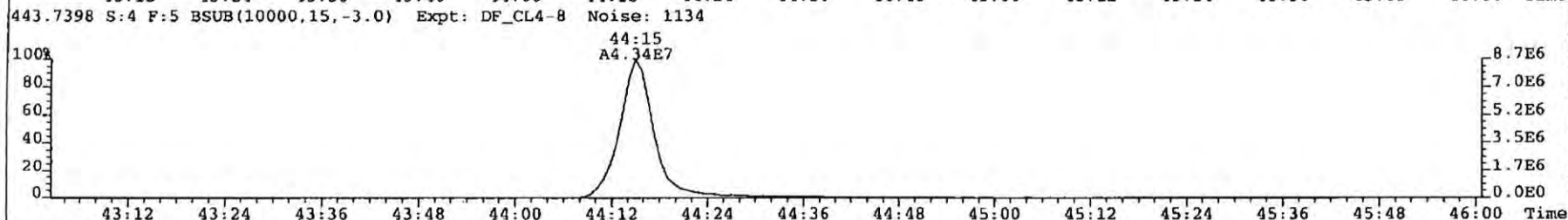
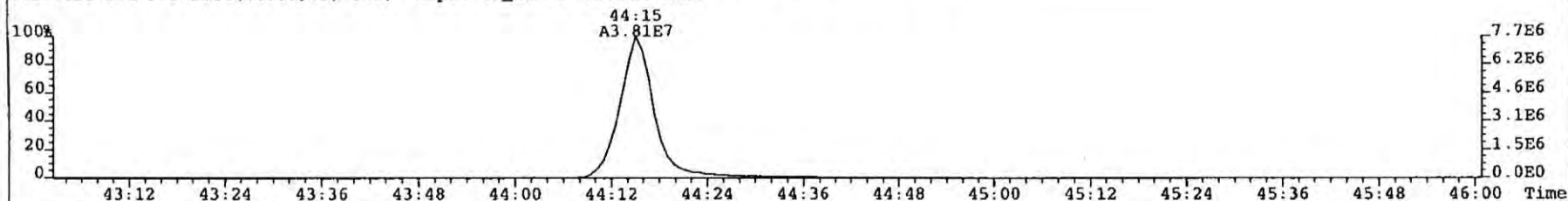
445.7555 S:4 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 95



File: 090325P2 Acq: 26-MAR-2009 01:23:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: P1193\_6679\_007 PO-UP-22-SS-A-090313 10.04g Vial# 24 File Text: AP DB5  
407.7818 S:4 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 2341



File: 090325P2 Acq: 26-MAR-2009 01:23:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: P1193\_6679\_007 PO-UP-22-SS-A-090313 10.04g Vial# 24 File Text: AP DB5  
441.7428 S:4 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1197





1613/8290 Sample Summary

Analytical Perspectives

[Form: DF]

Client ID: PO-UP-23B-SS-A-090313      Filename: 090325P2      S: 5      Vial: 25      Acq: 26-MAR-09 02:13:51 ✓  
 Lab ID: P1193\_6679\_008 ✓      GC column ID: db-5      Cal: MM1\_DF\_07012007A\_25DEC08wt/Vol: 10.00 ✓  
 Sample text: P1193\_6679\_008 PO-UP-23B-SS-A-090313 10.02g ✓      Stds: JS (split adj.): 2000      CS/SS: 800      ES: 2000 ✓

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	2.49e+05	0.74 y	27:17	1.08	0.835	846	2.5	0.0551	-
Ax	1,2,3,7,8-PeCDD	1.15e+06	1.61 y	32:50	1.00	4.91	1936	2.5	0.196	-
Ax	1,2,3,4,7,8-HxCDD	2.05e+06	1.09 y	36:46	1.08	10.3	6621	2.5	0.690	-
Ax	1,2,3,6,7,8-HxCDD	8.81e+06	1.22 y	36:53	0.94	44.1	6621	2.5	0.766	-
Ax	1,2,3,7,8,9-HxCDD	4.39e+06	1.23 y	37:11	0.99	20.3	6621	2.5	0.743	-
Ax	1,2,3,4,6,7,8-HpCDD	2.01e+08	1.06 y	40:24	0.97	1110	22408	2.5	2.67	-
Ax	OCDD	1.28e+09	0.90 y	44:01	1.06	9630	76134	2.5	13.3	-
Ax2	OCDD-a	7.75e+07	2.52 y	44:00	0.06	9780	6652	2.5	19.4 -ok	-
Ax	2,3,7,8-TCDF	1.47e+06	0.81 y	26:21	1.05	3.21	1146	2.5	0.0510	-
Ax	1,2,3,7,8-PeCDF	1.24e+06	1.62 y	31:20	0.98	3.33	2194	2.5	0.145	-
Ax	2,3,4,7,8-PeCDF	3.05e+06	1.61 y	32:29	1.01	7.97	2194	2.5	0.135	-
Ax	1,2,3,4,7,8-HxCDF	6.35e+06	1.25 y	35:48	1.22	20.6	7958	2.5	0.346	-
Ax	1,2,3,6,7,8-HxCDF	2.71e+06	1.10 y	35:56	1.15	8.17	7958	2.5	0.347	-
Ax	2,3,4,6,7,8-HxCDF	3.98e+06	1.26 y	36:35	1.13	12.7	7958	2.5	0.371	-
Ax	1,2,3,7,8,9-HxCDF	1.01e+06	1.19 y	37:36	1.12	3.80	7958	2.5	0.481	-
Ax	1,2,3,4,6,7,8-HpCDF	7.77e+07	1.03 y	39:13	1.37	297	7863	2.5	0.414	-
Ax	1,2,3,4,7,8,9-HpCDF	2.66e+06	1.06 y	40:58	1.32	12.7	7863	2.5	0.593	-
Ax	OCDF	1.29e+08	0.89 y	44:15	0.94	787	15771	2.5	2.45	-
Ax2	OCDF-a	7.58e+06	2.52 y	44:15	0.05	823	3796	2.5	10.5 -ok	-
ES	13C-2,3,7,8-TCDD	5.51e+07	0.81 y	27:16	0.99	160	2016	2.5	0.114	80.0
ES	13C-1,2,3,7,8-PeCDD	4.67e+07	1.63 y	32:49	0.83	161	10306	2.5	0.696	80.8
ES	13C-1,2,3,4,7,8-HxCDD	3.67e+07	1.28 y	36:45	1.08	148	12238	2.5	1.04	74.2
ES	13C-1,2,3,6,7,8-HxCDD	4.22e+07	1.28 y	36:52	1.23	150	12238	2.5	0.918	75.3
ES	13C-1,2,3,7,8,9-HxCDD	4.35e+07	1.24 y	37:11	1.21	157	12238	2.5	0.929	78.5
ES	13C-1,2,3,4,6,7,8-HpCDD	3.71e+07	1.06 y	40:23	0.98	165	10102	2.5	0.944	82.6
ES	13C-OCDD	5.00e+07	0.85 y	44:00	0.66	331	8401	2.5	1.17	82.9
ES	13C-2,3,7,8-TCDF	8.70e+07	0.80 y	26:20	0.96	192	5376	2.5	0.241	96.1
ES	13C-1,2,3,7,8-PeCDF	7.52e+07	1.58 y	31:19	0.85	186	13466	2.5	0.676	93.1
ES	13C-2,3,4,7,8-PeCDF	7.54e+07	1.56 y	32:27	0.88	180	13466	2.5	0.653	90.1
ES	13C-1,2,3,4,7,8-HxCDF	5.04e+07	0.54 y	35:47	1.47	149	30617	2.5	1.91	74.7
ES	13C-1,2,3,6,7,8-HxCDF	5.76e+07	0.53 y	35:55	1.78	142	30617	2.5	1.58	70.9
ES	13C-2,3,4,6,7,8-HxCDF	5.52e+07	0.53 y	36:34	1.61	150	30617	2.5	1.75	75.0
ES	13C-1,2,3,7,8,9-HxCDF	4.74e+07	0.52 y	37:33	1.40	148	30617	2.5	2.01	74.0
ES	13C-1,2,3,4,6,7,8-HpCDF	3.82e+07	0.45 y	39:12	1.16	144	13152	2.5	1.04	72.0
ES	13C-1,2,3,4,7,8,9-HpCDF	3.17e+07	0.45 y	40:57	0.92	150	13152	2.5	1.31	75.2
ES	13C-OCDF	6.96e+07	0.91 y	44:14	1.04	293	18464	2.5	1.63	73.3
CS	37Cl-2,3,7,8-TCDD	2.18e+07		27:17	0.99	63.6			1.44	79.6
CS	13C-1,2,3,4,7-PeCDD	4.28e+07	1.68 y	32:18	0.77	160	10306	2.5	0.755	80.3
CS	13C-1,2,3,4,6-PeCDF	6.83e+07	1.55 y	30:47	0.79	181	13466	2.5	0.727	90.8
CS	13C-1,2,3,4,6,9-HxCDF	5.11e+07	0.53 y	36:14	1.41	158	30617	2.5	1.99	79.1
CS	13C-1,2,3,4,6,8,9-HpCDF	3.49e+07	0.45 y	39:41	0.91	167	13152	2.5	1.33	83.9
NA	n/a	*	* n	NotF>	Div0	*	264	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	6.93e+07	0.82 y	26:36	-	19.7	2016	2.5	-	-
JS	13C-1,2,3,4-TCDF	9.47e+07	0.78 y	24:56	-	17.0	5376	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	2.29e+07	1.30 y	37:04	-	10.5	1451	2.5	-	-

7 April 09

Analyst: [Signature]  
Date: [Signature]

7 April 09

SS	37Cl-2,3,7,8-TCDD	2.18e+07		27:17	1.00	79.0			1.77	98.9
SS	13C-1,2,3,4,7-PeCDD	4.28e+07	1.68 y	32:18	0.93	197	10306	2.5	1.12	98.7
SS	13C-1,2,3,4,6-PeCDF	6.83e+07	1.55 y	30:47	0.94	194	13466	2.5	0.936	97.0
SS	13C-1,2,3,4,6,9-HxCDF	5.11e+07	0.53 y	36:14	0.80	221	30617	2.5	1.92	111
SS	13C-1,2,3,4,6,8,9-HpCDF	3.49e+07	0.45 y	39:41	0.79	230	13152	2.5	1.19	115
SBS	2,4,6,8-TCDF	2.39e+06	0.75 y	22:26	1.05	5.23	1146	2.5	0.0510	-
Ay	1,3,6,8-TCDD	2.36e+06	0.81 y	23:25	1.08	7.90	846	2.5	0.0551	-
Ay	1,2,3,9-TCDD	6.54e+04	1.12 y	27:08	1.08	0.219	846	2.5	0.0551	-
Ay	1,2,8,9-TCDD	7.24e+04	0.79 y	28:19	1.08	0.242	846	2.5	0.0551	-
Ay	1,2,4,7,9-PeCDD	3.96e+06	1.68 y	30:16	1.00	17.0	1936	2.5	0.196	-
Ay	1,2,3,8,9-PeCDD	3.10e+05	1.59 y	33:17	1.00	1.33	1936	2.5	0.196	-
Ay	1,2,4,6,7,9-HxCDD	3.29e+07	1.23 y	35:04	1.00	160	6621	2.5	0.733	-
Ay	1,2,3,4,6,7,9-HpCDD	3.64e+08	1.07 y	39:32	0.97	2010	22408	2.5	2.67	-
Ay	1,3,6,8-TCDF	6.29e+05	0.75 y	21:15	1.05	1.38	1146	2.5	0.0510	-
Ay	2,3,4,8-TCDF	3.39e+05	0.73 y	26:14	1.05	0.743	1146	2.5	0.0510	-
Ay	1,2,8,9-TCDF	*	n	NotF>	1.05	*	1146	2.5	0.0510	-
Ay	1,3,4,6,8-PeCDF	1.59e+07	1.74 y	28:28	1.05	34.9	2292	2.5	0.102	-
Ay	1,2,3,8,9-PeCDF	1.38e+05	1.75 y	33:34	1.00	0.365	2194	2.5	0.140	-
Ay	1,2,3,4,6,8-HxCDF	1.09e+07	1.27 y	34:24	1.15	35.9	7958	2.5	0.382	-
Tot	Total Tetra-Dioxins	8.13e+06	0.81 y	23:25	1.08	27.2	846	2.5	0.0551	-
Tot	Total Penta-Dioxins	1.22e+07	1.68 y	30:16	1.00	52.2	1936	2.5	0.196	-
Tot	Total Hexa-Dioxins	8.78e+07	1.23 y	35:04	1.00	428	6621	2.5	0.733	-
Tot	Total Hepta-Dioxins	5.65e+08	1.07 y	39:32	0.97	3120	22408	2.5	2.67	-
Tot	Total Tetra-Furans	2.11e+07	0.75 y	21:15	1.05	46.3	1146	2.5	0.0510	-
Tot	Total Penta-Furans	2.08e+07	1.67 y	30:03	1.00	55.2	2194	2.5	0.140	-
Tot	Total Hexa-Furans	1.14e+08	1.27 y	34:24	1.15	373	7958	2.5	0.382	-
Tot	Total Hepta-Furans	2.20e+08	1.03 y	39:13	1.35	904	7863	2.5	0.493	-
Tot	TCDD EMPC	8.45e+06	0.81 y	23:25	1.08	28.3	846	2.5	0.0551	-
Tot	PeCDD EMPC	1.35e+07	1.68 y	30:16	1.00	57.7	1936	2.5	0.196	-
Tot	HxCDD EMPC	8.78e+07	1.23 y	35:04	1.00	428	6621	2.5	0.733	-
Tot	HpCDD EMPC	5.65e+08	1.07 y	39:32	0.97	3120	22408	2.5	2.67	-
Tot	TCDF EMPC	2.12e+07	0.75 y	21:15	1.05	46.4	1146	2.5	0.0510	-
Tot	PeCDF EMPC	2.09e+07	1.67 y	30:03	1.00	55.4	2194	2.5	0.140	-
Tot	HxCDF EMPC	1.14e+08	1.27 y	34:24	1.15	374	7958	2.5	0.382	-
Tot	HpCDF EMPC	2.20e+08	1.03 y	39:13	1.35	904	7863	2.5	0.493	-
AS	13C-1,3,6,8-TCDD	5.14e+07	0.82 y	23:23	1.09	136	2016	2.5	0.105	68.2
AS	13C-1,3,6,8-TCDF	9.17e+07	0.79 y	21:13	1.09	177	5376	2.5	0.212	88.9
DPE	HxCDPE	*		NotF>	-	*			-	-
DPE	HpCDPE	*		NotF>	-	*			-	-
DPE	OCDEPE	*		NotF>	-	*			-	-
DPE	NCDPE	*		NotF>	-	*			-	-
DPE	DCDPE	*		NotF>	-	*			-	-
LMC	Fn1 check mass	*		NotF>	-	*			-	-
LMC	Fn2 check mass	*		NotF>	-	*			-	-
LMC	Fn3 check mass	*		NotF>	-	*			-	-
LMC	Fn4 check mass	*		NotF>	-	*			-	-
LMC	Fn5 check mass	*		NotF>	-	*			-	-

Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDD EMPC Function: 1 Run #: 12 Checkcode: 5423  
 File Name: 090325P2 Sample #: 5 Sample text: P1193\_6679\_008 PO-UP-23B-SS-A-090313 10»

Acquired: 26-MAR-09 02:13:51 Processed: 26-MAR-09 08:42:19

Total Conc.: 28.291 Unnamed Conc.: 19.098 Homolog count: 17 ✓

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
23:25	1.056e+06	n	1.304e+06	n	0.81	y	2.360e+06	2.360e+06	3.12e+02	y	7.90	1,3,6,8-TCDD
23:49	6.859e+05	n	8.514e+05	n	0.81	y	1.537e+06	1.537e+06	1.94e+02	y	5.14	
24:16	1.120e+05	n	1.353e+05	n	0.83	y	2.473e+05	2.473e+05	3.56e+01	y	0.828	
25:05	1.124e+05	y	1.423e+05	n	0.79	y	2.547e+05	2.547e+05	4.11e+01	y	0.852	
25:20	2.156e+05	y	2.946e+05	y	0.73	y	5.102e+05	5.102e+05	6.74e+01	y	1.71	
25:33	2.472e+05	y	3.226e+05	y	0.77	y	5.697e+05	5.697e+05	9.15e+01	y	1.91	
25:45	9.350e+04	y	1.153e+05	y	0.81	y	2.088e+05	2.088e+05	2.93e+01	y	0.699	
26:01	3.792e+04	y	5.204e+04	n	0.73	y	8.996e+04	8.996e+04	1.24e+01	y	0.301	
26:12	1.052e+05	y	1.123e+05	n	0.94	n	2.175e+05	1.988e+05	2.87e+01	y	0.665	
26:37	1.925e+05	y	2.293e+05	y	0.84	y	4.218e+05	4.218e+05	5.05e+01	y	1.41	
26:45	1.403e+04	y	2.368e+04	y	0.59	n	3.771e+04	3.225e+04	1.03e+01	y	0.108	
27:00	6.330e+05	n	7.882e+05	y	0.80	y	1.421e+06	1.421e+06	1.92e+02	y	4.76	
27:06	4.135e+04	y	3.695e+04	y	1.12	n	7.829e+04	6.539e+04	1.21e+01	y	0.219	1,2,3,9-TCDD
27:17	1.058e+05	y	1.436e+05	n	0.74	y	2.494e+05	2.494e+05	4.39e+01	y	0.835	2,3,7,8-TCDD
27:30	7.491e+04	y	1.087e+05	n	0.69	y	1.836e+05	1.836e+05	3.00e+01	y	0.614	
27:45	1.363e+04	y	2.439e+04	y	0.56	n	3.801e+04	3.132e+04	7.25e+00	y	0.105	
28:19	3.203e+04	n	4.036e+04	n	0.79	y	7.239e+04	7.239e+04	1.02e+01	y	0.242	1,2,8,9-TCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDD EMPC Function: 2 Run #: 12 Checkcode: 5423  
 File Name: 090325P2 Sample #: 5 Sample text: P1193\_6679\_008 PO-UP-23B-SS-A-090313 10»

Acquired: 26-MAR-09 02:13:51 Processed: 26-MAR-09 08:42:19

Total Conc.: 57.696 Unnamed Conc.: 34.507 Homolog count: 10 ✓

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
30:16	2.482e+06	n	1.481e+06	n	1.68	y	3.963e+06	3.963e+06	1.45e+02	y	17.0	1,2,4,7,9-PeCDD
30:49	9.049e+05	n	4.996e+05	n	1.81	n	1.405e+06	1.274e+06	7.45e+01	y	5.45	
31:23	1.120e+06	n	7.288e+05	n	1.54	y	1.849e+06	1.849e+06	1.03e+02	y	7.91	
31:34	8.199e+05	n	4.730e+05	n	1.73	y	1.293e+06	1.293e+06	7.36e+01	y	5.53	
31:41	8.661e+05	n	5.392e+05	n	1.61	y	1.405e+06	1.405e+06	7.21e+01	y	6.01	
31:57	8.199e+05	n	5.464e+05	n	1.50	y	1.366e+06	1.366e+06	5.01e+01	y	5.85	
32:12	3.472e+05	n	2.318e+05	n	1.50	y	5.790e+05	5.790e+05	3.05e+01	y	2.48	
32:50	7.076e+05	n	4.394e+05	n	1.61	y	1.147e+06	1.147e+06	6.06e+01	y	4.91	1,2,3,7,8-PeCDD
32:56	1.772e+05	n	1.225e+05	n	1.45	y	2.997e+05	2.997e+05	1.93e+01	y	1.28	
33:17	1.905e+05	n	1.197e+05	n	1.59	y	3.102e+05	3.102e+05	1.41e+01	y	1.33	1,2,3,8,9-PeCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDD EMPC Function: 3 Run #: 12 Checkcode: 5423  
 File Name: 090325P2 Sample #: 5 Sample text: P1193\_6679\_008 PO-UP-23B-SS-A-090313 10»

Acquired: 26-MAR-09 02:13:51 Processed: 26-MAR-09 08:42:19

Total Conc.: 428.46 Unnamed Conc.: 193.435 Homolog count: 8 ✓



RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name		
35:04	1.816e+07	n	1.473e+07	n	1.23	y	3.289e+07	3.289e+07	6.17e+02	y	160	1,2,4,6,7,9-HxCDD
35:44	3.028e+06	n	2.449e+06	n	1.24	y	5.478e+06	5.478e+06	9.91e+01	y	26.7	
36:01	1.593e+07	n	1.282e+07	n	1.24	y	2.875e+07	2.875e+07	4.11e+02	y	140	
36:10	2.223e+06	n	1.964e+06	n	1.13	y	4.187e+06	4.187e+06	6.76e+01	y	20.4	
36:40	1.071e+06	n	9.829e+05	n	1.09	y	2.054e+06	2.054e+06	4.00e+01	y	10.3	1,2,3,4,7,8-HxCDD
36:53	4.851e+06	n	3.961e+06	n	1.22	y	8.812e+06	8.812e+06	1.52e+02	y	44.1	1,2,3,6,7,8-HxCDD
37:05	6.641e+05	n	6.160e+05	n	1.08	y	1.280e+06	1.280e+06	2.68e+01	y	6.24	
37:11	2.417e+06	n	1.969e+06	n	1.23	y	4.386e+06	4.386e+06	7.18e+01	y	20.3	1,2,3,7,8,9-HxCDD
Totals Results									Analytical Perspectives		[Form: TOT]	

Totals class: HpCDD EMPC Function: 4 Run #: 12 Checkcode: 5423  
 File Name: 090325P2 Sample #: 5 Sample text: P1193\_6679\_008 PO-UP-23B-SS-A-090313 10»

Acquired: 26-MAR-09 02:13:51 Processed: 26-MAR-09 08:42:19

Total Conc.: 3119.8 Unnamed Conc.: \* Homolog count: 2

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name		
39:32	1.883e+08	n	1.759e+08	n	1.07	y	3.641e+08	3.641e+08	2.09e+03	y	2010	1,2,3,4,6,7,9-HpCDD
40:24	1.035e+08	n	9.720e+07	n	1.06	y	2.007e+08	2.007e+08	1.05e+03	y	1110	1,2,3,4,6,7,8-HpCDD
Totals Results									Analytical Perspectives		[Form: TOT]	

Totals class: TCDF EMPC Function: 1 Run #: 12 Checkcode: 5423  
 File Name: 090325P2 Sample #: 5 Sample text: P1193\_6679\_008 PO-UP-23B-SS-A-090313 10»

Acquired: 26-MAR-09 02:13:51 Processed: 26-MAR-09 08:42:19

Total Conc.: 46.413 Unnamed Conc.: 35.849 Homolog count: 21

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name		
21:15	2.688e+05	n	3.605e+05	n	0.75	y	6.293e+05	6.293e+05	6.09e+01	y	1.38	1,3,6,8-TCDF
21:48	3.635e+05	n	4.837e+05	n	0.75	y	8.472e+05	8.472e+05	8.14e+01	y	1.86	
22:26	1.023e+06	n	1.363e+06	n	0.75	y	2.386e+06	2.386e+06	2.10e+02	y	5.23	2,4,6,8-TCDF
22:59	1.039e+06	n	1.241e+06	n	0.84	y	2.280e+06	2.280e+06	1.37e+02	y	5.00	
23:23	1.036e+06	n	1.363e+06	n	0.76	y	2.399e+06	2.399e+06	1.63e+02	y	5.26	
23:50	7.550e+05	y	9.181e+05	y	0.82	y	1.673e+06	1.673e+06	1.59e+02	y	3.67	
23:59	1.931e+05	y	2.497e+05	y	0.77	y	4.428e+05	4.428e+05	4.69e+01	y	0.971	
24:09	3.819e+05	n	4.708e+05	y	0.81	y	8.528e+05	8.528e+05	9.32e+01	y	1.87	
24:32	1.705e+05	y	2.408e+05	y	0.71	y	4.113e+05	4.113e+05	4.04e+01	y	0.902	
24:41	2.455e+05	y	3.439e+05	y	0.71	y	5.894e+05	5.894e+05	6.79e+01	y	1.29	
24:50	7.236e+05	y	9.411e+05	y	0.77	y	1.665e+06	1.665e+06	1.75e+02	y	3.65	
24:58	4.185e+05	y	5.550e+05	y	0.75	y	9.735e+05	9.735e+05	8.32e+01	y	2.13	
25:26	5.748e+05	n	7.401e+05	n	0.78	y	1.315e+06	1.315e+06	1.18e+02	y	2.88	
25:43	2.492e+05	y	3.020e+05	n	0.83	y	5.512e+05	5.512e+05	5.73e+01	y	1.21	
25:55	1.371e+05	n	1.590e+05	y	0.86	y	2.961e+05	2.961e+05	2.94e+01	y	0.649	
26:08	1.887e+05	y	2.214e+05	y	0.85	y	4.101e+05	4.101e+05	4.17e+01	y	0.899	
26:14	1.429e+05	y	1.960e+05	y	0.73	y	3.389e+05	3.389e+05	4.74e+01	y	0.743	2,3,4,8-TCDF
26:21	6.573e+05	y	8.077e+05	y	0.81	y	1.465e+06	1.465e+06	1.54e+02	y	3.21	2,3,7,8-TCDF
26:45	6.208e+05	n	8.119e+05	n	0.76	y	1.433e+06	1.433e+06	1.46e+02	y	3.14	
27:00	7.706e+04	y	9.309e+04	n	0.83	y	1.702e+05	1.702e+05	1.87e+01	y	0.373	
27:17	2.538e+04	y	2.495e+04	n	1.02	n	5.033e+04	4.416e+04	6.31e+00	y	0.0968	
Totals Results									Analytical Perspectives		[Form: TOT]	

Totals class: PeCDF EMPC Function: 2 Run #: 12 Checkcode: 5423  
 File Name: 090325P2 Sample #: 5 Sample text: P1193\_6679\_008 PO-UP-23B-SS-A-090313 10»

Acquired: 26-MAR-09 02:13:51 Processed: 26-MAR-09 08:42:19

Total Conc.: 55.371 Unnamed Conc.: 43.701 Homolog count: 12 ✓

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
30:83	9.367e+05	n	5.594e+05	n	1.67	y	1.496e+06	1.496e+06	5.85e+01	y	3.97	
30:19	5.500e+06	n	3.473e+06	n	1.58	y	8.973e+06	8.973e+06	3.40e+02	y	23.8	
30:39	2.139e+05	n	1.202e+05	n	1.78	y	3.340e+05	3.340e+05	1.07e+01	y	0.886	
30:53	1.680e+06	n	1.095e+06	n	1.53	y	2.775e+06	2.775e+06	9.72e+01	y	7.36	
31:08	3.819e+05	n	2.587e+05	n	1.48	y	6.406e+05	6.406e+05	3.23e+01	y	1.70	
31:20	7.656e+05	n	4.715e+05	n	1.62	y	1.237e+06	1.237e+06	5.51e+01	y	3.33	1,2,3,7,8-PeCDF
31:38	1.003e+06	n	6.603e+05	n	1.52	y	1.664e+06	1.664e+06	6.67e+01	y	4.41	
31:49	3.895e+04	n	3.482e+04	n	1.12	n	7.377e+04	6.408e+04	4.29e+00	y	0.170	
32:17	5.595e+04	n	3.894e+04	n	1.44	y	9.489e+04	9.489e+04	6.12e+00	y	0.252	
32:21	2.654e+05	n	1.654e+05	n	1.60	y	4.308e+05	4.308e+05	2.44e+01	y	1.14	
32:29	1.881e+06	n	1.169e+06	n	1.61	y	3.050e+06	3.050e+06	9.51e+01	y	7.97	2,3,4,7,8-PeCDF
33:34	8.757e+04	n	4.993e+04	n	1.75	y	1.375e+05	1.375e+05	6.54e+00	y	0.365	1,2,3,8,9-PeCDF

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDF EMPC Function: 3 Run #: 12 Checkcode: 5423  
 File Name: 090325P2 Sample #: 5 Sample text: P1193\_6679\_008 PO-UP-23B-SS-A-090313 10»

Acquired: 26-MAR-09 02:13:51 Processed: 26-MAR-09 08:42:19

Total Conc.: 374.02 Unnamed Conc.: 292.805 Homolog count: 11 ✓

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
34:24	6.104e+06	n	4.820e+06	y	1.27	y	1.092e+07	1.092e+07	1.81e+02	y	35.9	1,2,3,4,6,8-HxCDF
34:36	2.039e+07	n	1.638e+07	n	1.24	y	3.678e+07	3.678e+07	5.62e+02	y	121	
34:51	2.413e+05	n	2.244e+05	n	1.08	y	4.656e+05	4.656e+05	5.69e+00	y	1.53	
35:02	7.455e+05	n	6.014e+05	n	1.24	y	1.347e+06	1.347e+06	1.91e+01	y	4.43	
35:15	2.714e+07	n	2.210e+07	n	1.23	y	4.924e+07	4.924e+07	7.77e+02	y	162	
35:41	4.897e+05	n	4.054e+05	n	1.21	y	8.952e+05	8.952e+05	1.45e+01	y	2.94	
35:48	3.526e+06	n	2.822e+06	y	1.25	y	6.348e+06	6.348e+06	1.01e+02	y	20.6	1,2,3,4,7,8-HxCDF
35:56	1.420e+06	n	1.294e+06	y	1.10	y	2.714e+06	2.714e+06	4.06e+01	y	8.17	1,2,3,6,7,8-HxCDF
36:14	2.124e+05	n	2.287e+05	n	0.93	n	4.411e+05	3.837e+05	7.70e+00	y	1.26	
36:35	2.214e+06	n	1.764e+06	y	1.26	y	3.978e+06	3.978e+06	5.64e+01	y	12.7	2,3,4,6,7,8-HxCDF
37:36	5.470e+05	n	4.594e+05	y	1.19	y	1.006e+06	1.006e+06	1.28e+01	y	3.80	1,2,3,7,8,9-HxCDF

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HpCDF EMPC Function: 4 Run #: 12 Checkcode: 5423  
 File Name: 090325P2 Sample #: 5 Sample text: P1193\_6679\_008 PO-UP-23B-SS-A-090313 10»

Acquired: 26-MAR-09 02:13:51 Processed: 26-MAR-09 08:42:19

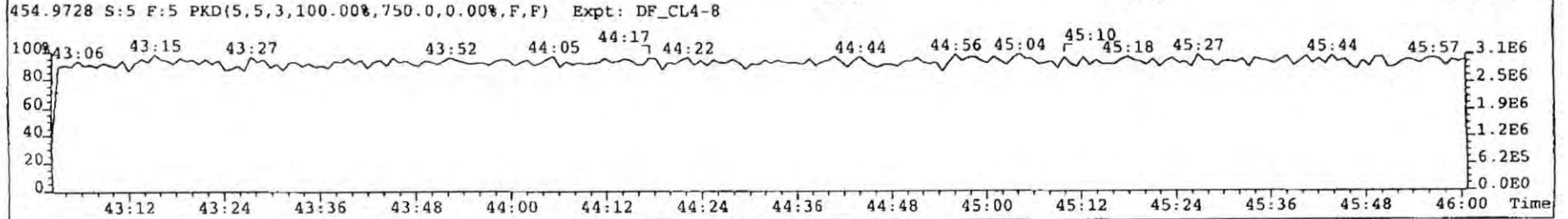
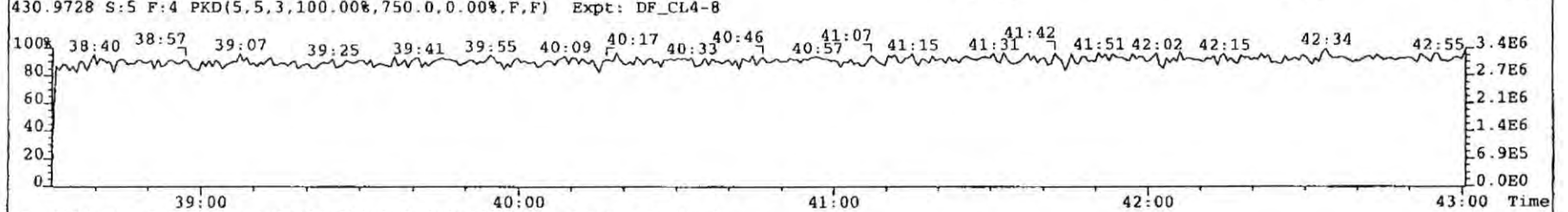
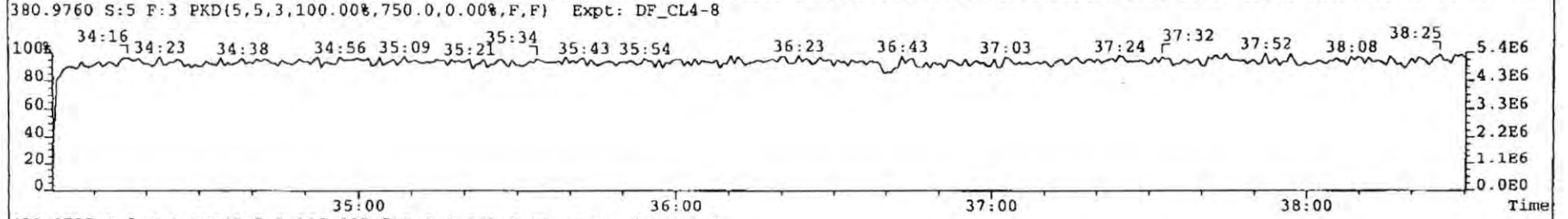
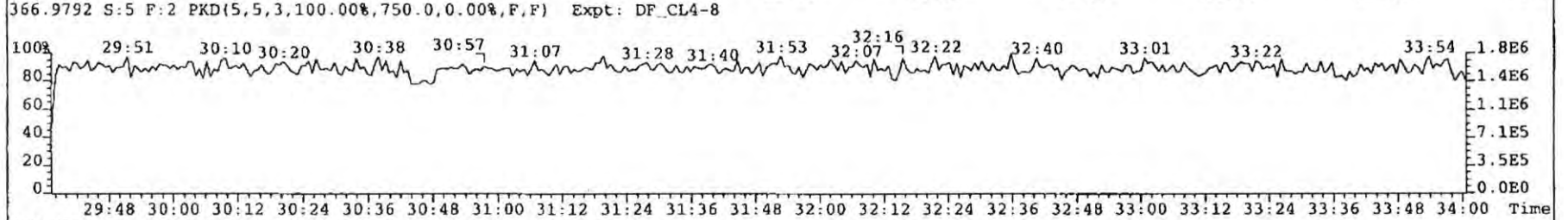
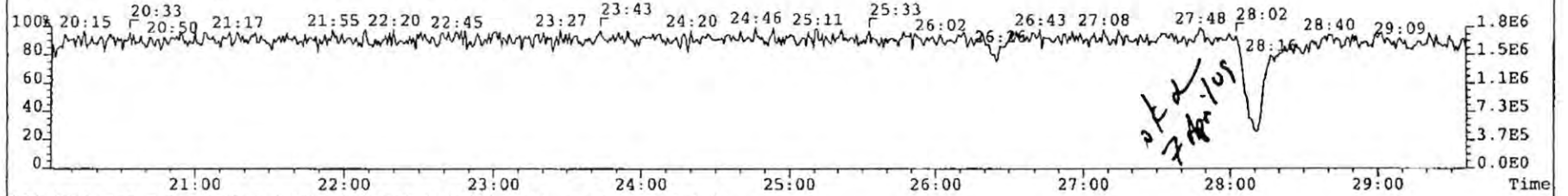
Total Conc.: 903.63 Unnamed Conc.: 593.766 Homolog count: 4 ✓

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
39:13	3.946e+07	n	3.824e+07	n	1.03	y	7.770e+07	7.770e+07	1.29e+03	y	297	1,2,3,4,6,7,8-HpCDF
39:31	1.066e+06	y	1.042e+06	y	1.02	y	2.108e+06	2.108e+06	2.97e+01	y	8.95	
39:42	7.031e+07	n	6.750e+07	n	1.04	y	1.378e+08	1.378e+08	2.22e+03	y	585	

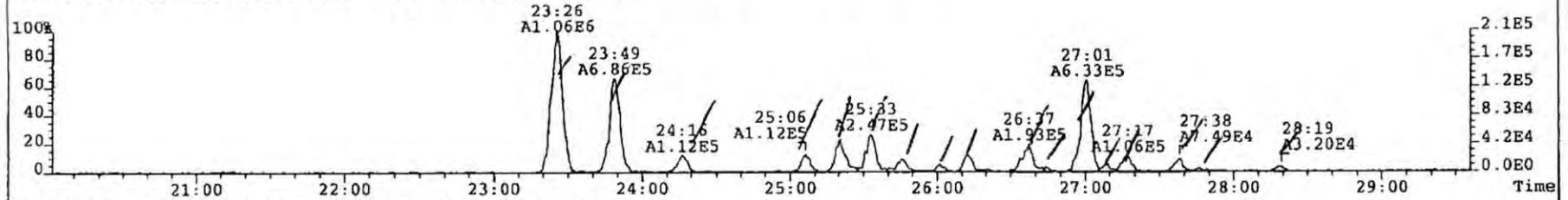
40:58 1.368e+06 n 1.292e+06 n 1.06 y 2.660e+06 2.660e+06 3.86e+01 y 12.7 1,2,3,4,7,8,9-HpCDF



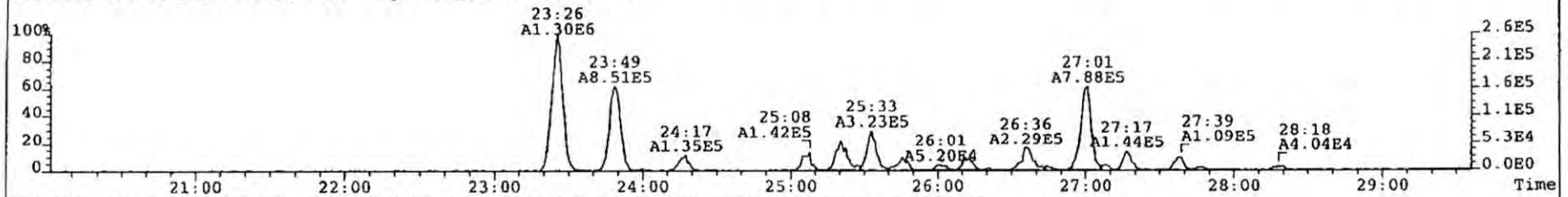
File: 090325P2 Acq: 26-MAR-2009 02:13 51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: P1193\_6679\_008 PO-UP-3B-SS-A-090313 10.02g Vial# 25 File Text: AP DB5  
316.9824 S:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



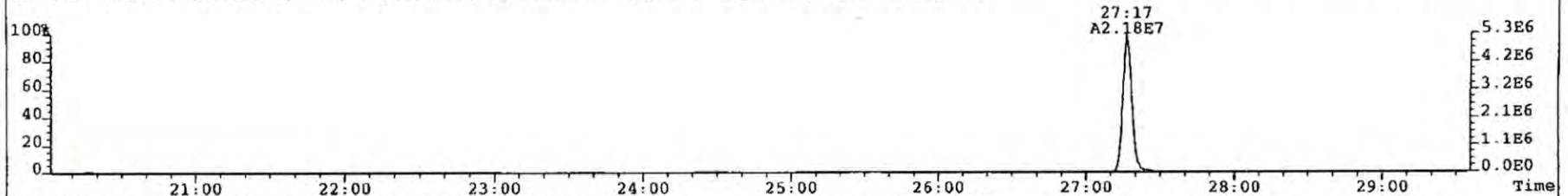
File: 090325P2 Acq: 26-MAR-2009 02:13:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: P1193\_6679\_008 PO-UP-23B-SS-A-090313 10.02g Vial# 25 File Text: AP DB5  
319.8965 S:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 82



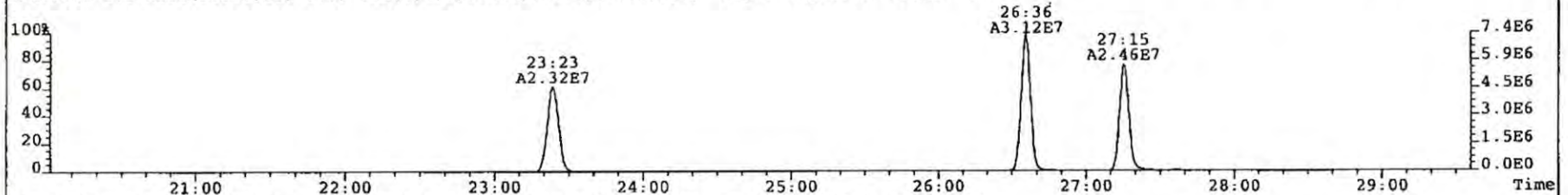
321.8936 S:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 70



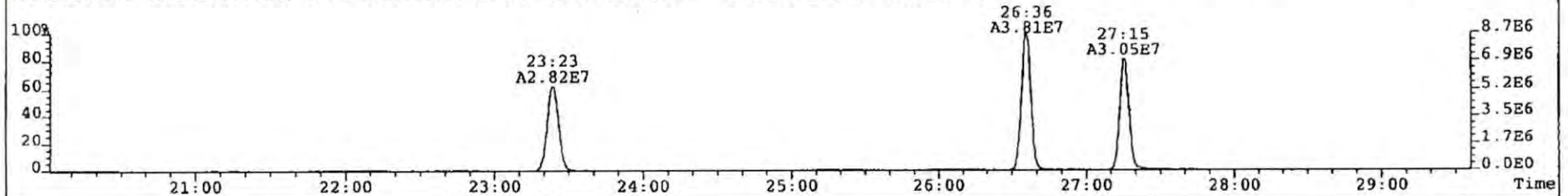
327.8850 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 93



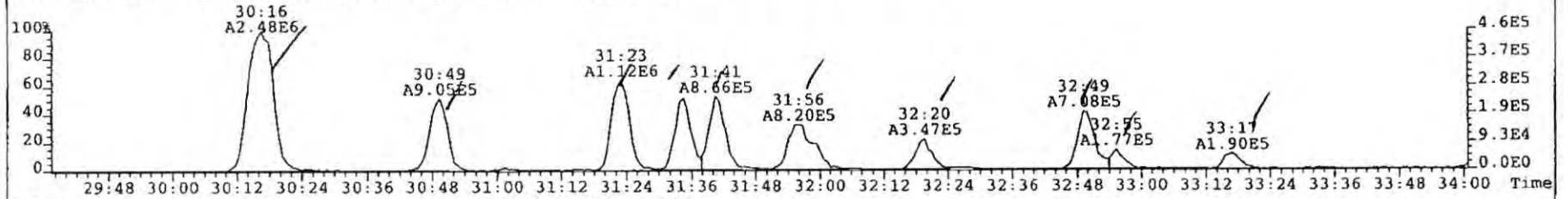
331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 278



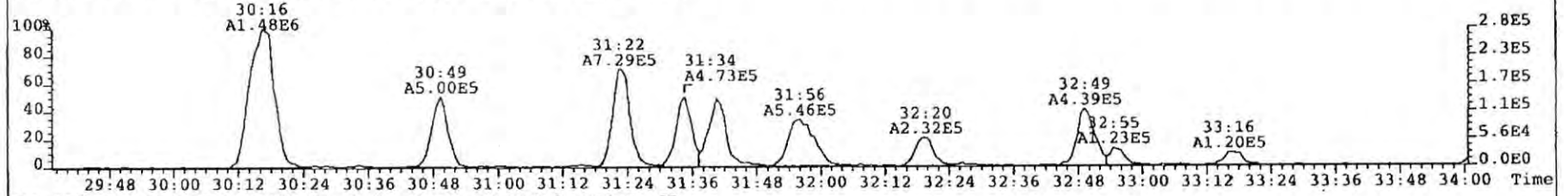
333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 90



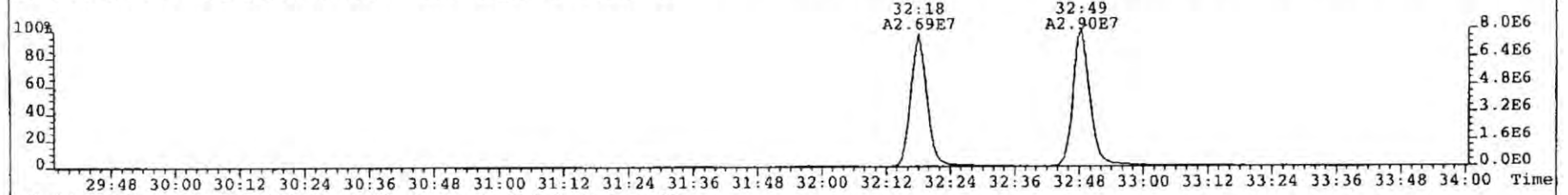
File: 090325P2 Acq: 26-MAR-2009 02:13:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: P1193\_6679\_008 PO-UP-23B-SS-A-090313 10.02g Vial# 25 File Text: AP DB5  
355.8546 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 677



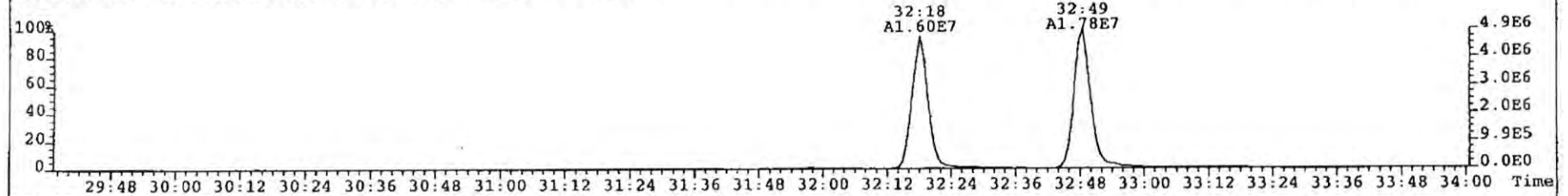
357.8517 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 559



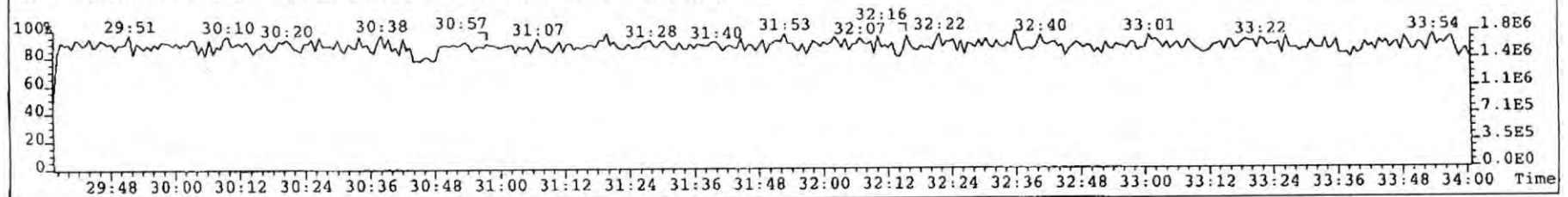
367.8949 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 87



369.8919 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 92

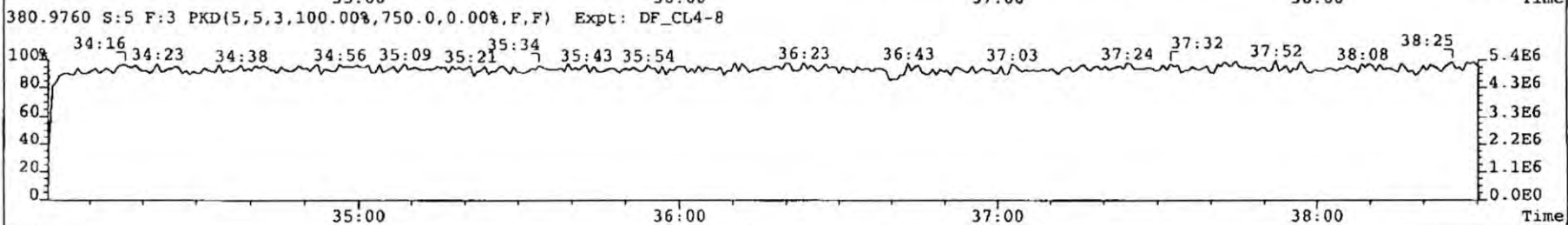
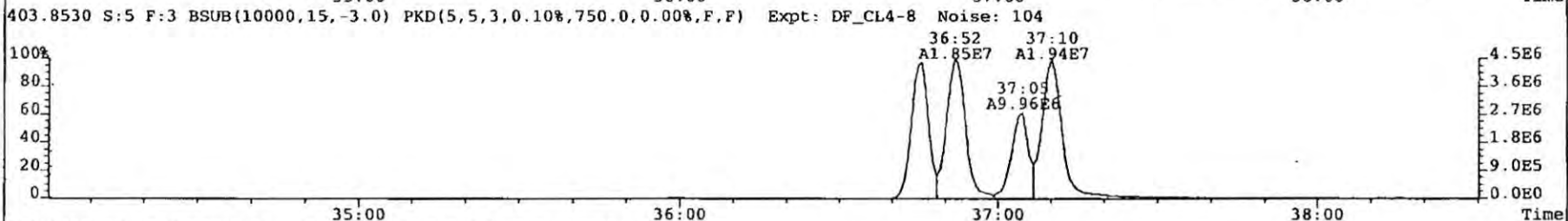
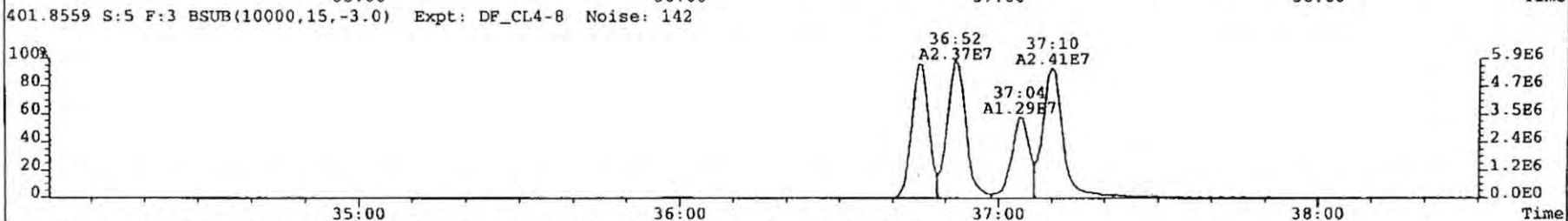
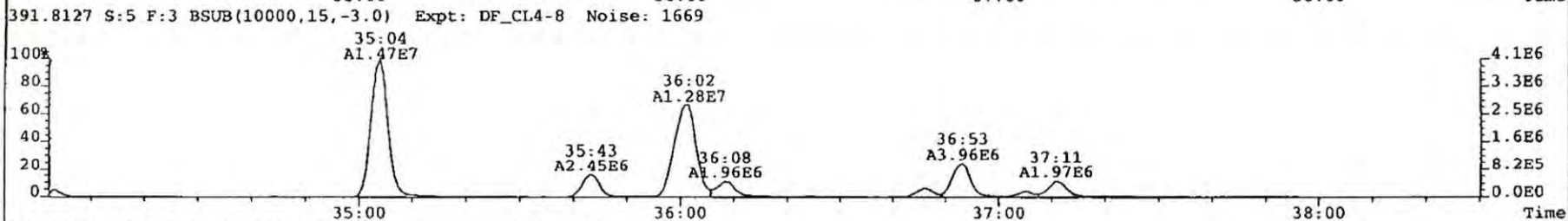
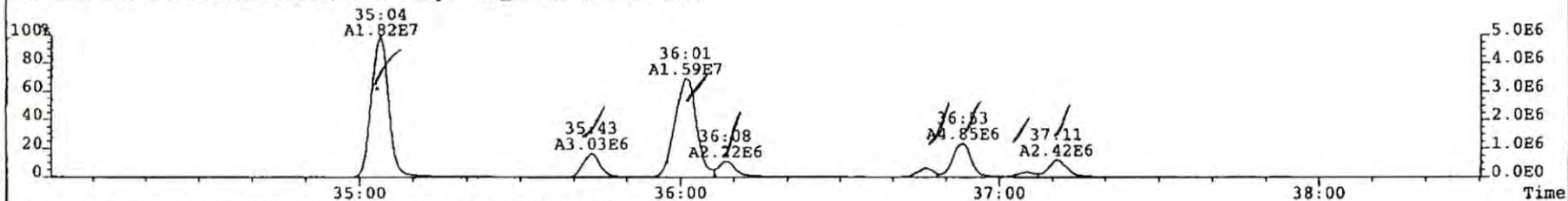


366.9792 S:5 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

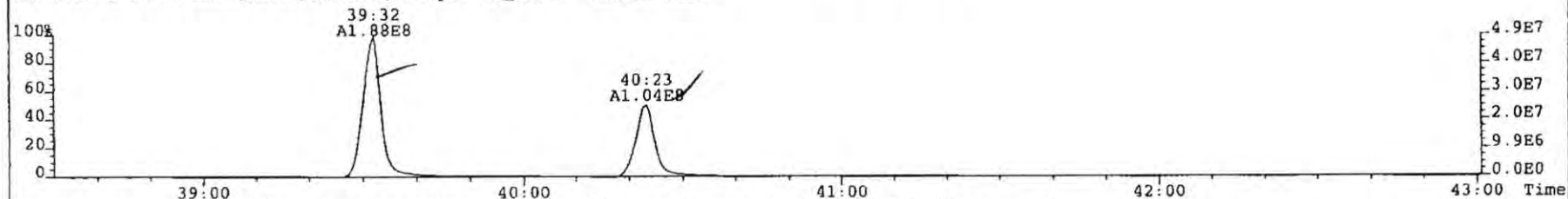




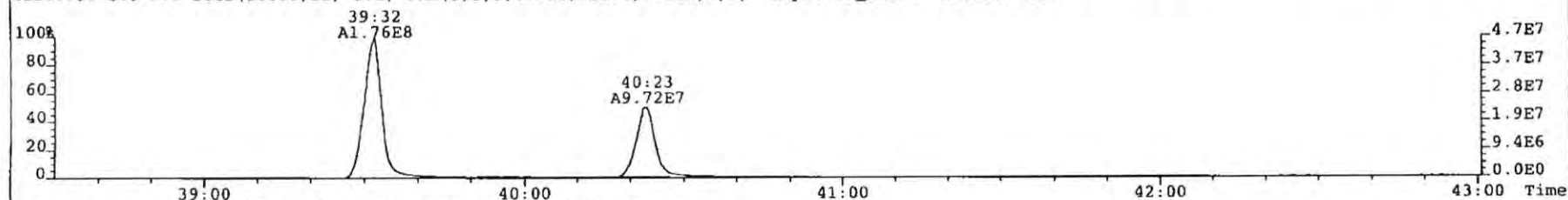
File: 090325P2 Acq: 26-MAR-2009 02:13:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: P1193\_6679\_008 PO-UP-23B-SS-A-090313 10.02g Vial# 25 File Text: AP DB5  
389.8156 S:5 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1466



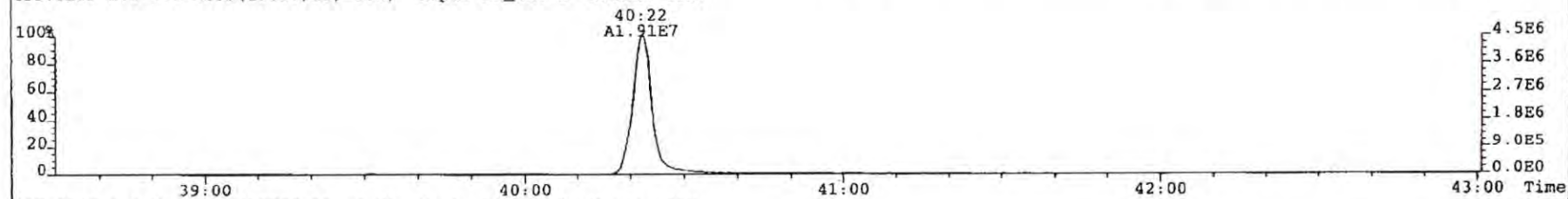
File: 090325P2 Acq: 26-MAR-2009 02:13:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: P1193\_6679\_008 PO-UP-23B-SS-A-090313 10.02g Vial# 25 File Text: AP DB5  
423.7767 S:5 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 5803



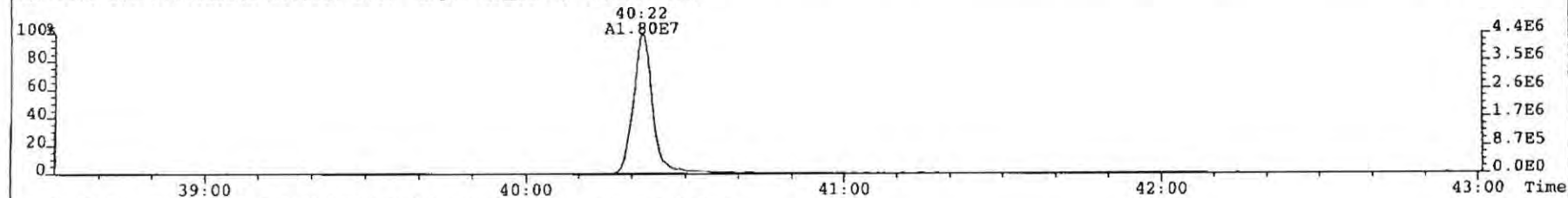
425.7737 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 5486



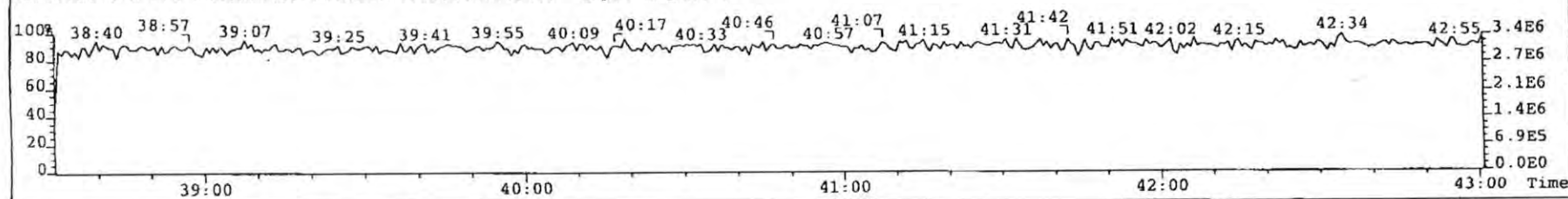
435.8169 S:5 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1020



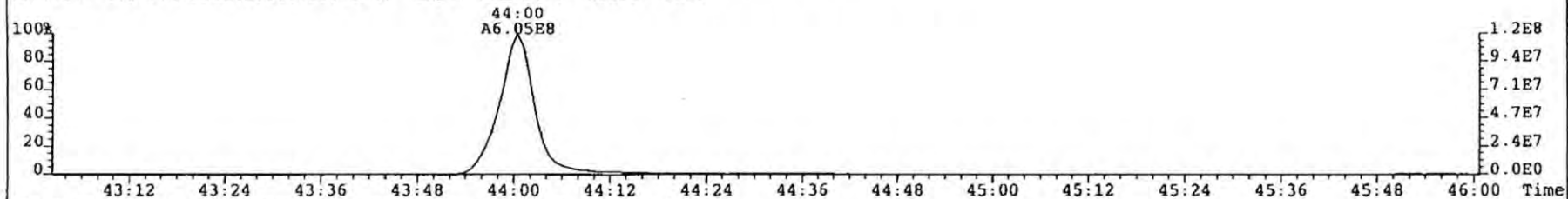
437.8140 S:5 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 310



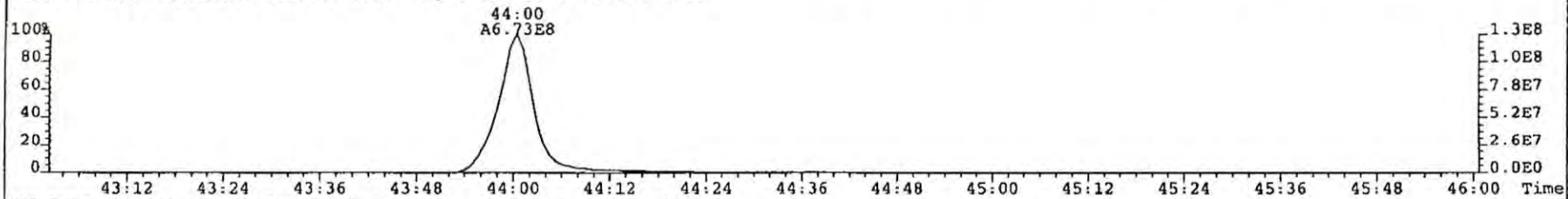
430.9728 S:5 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



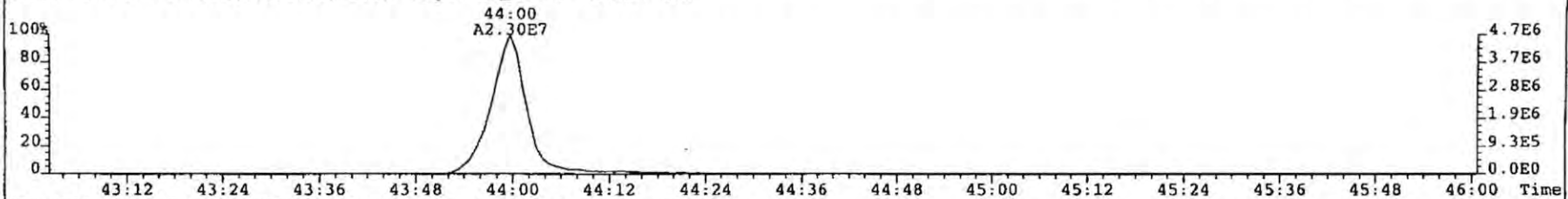
File: 090325P2 Acq: 26-MAR-2009 02:13:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: P1193\_6679\_008 PO-UP-23B-SS-A-090313 10.02g Vial# 25 File Text: AP DB5  
457.7377 S:5 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 7374



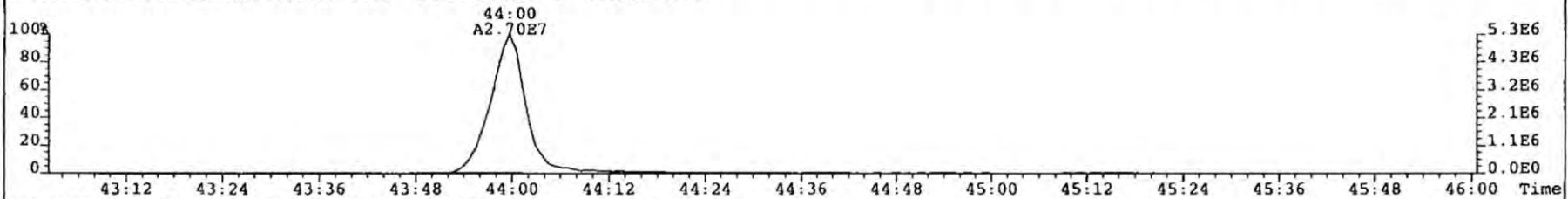
459.7348 S:5 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 4905



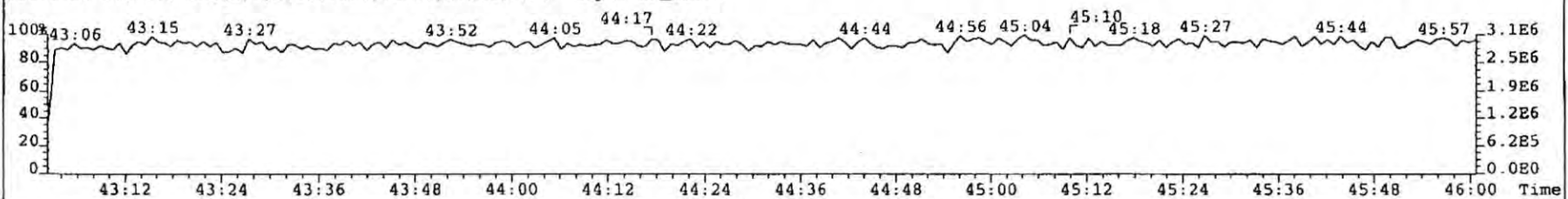
469.7780 S:5 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 862



471.7750 S:5 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1352

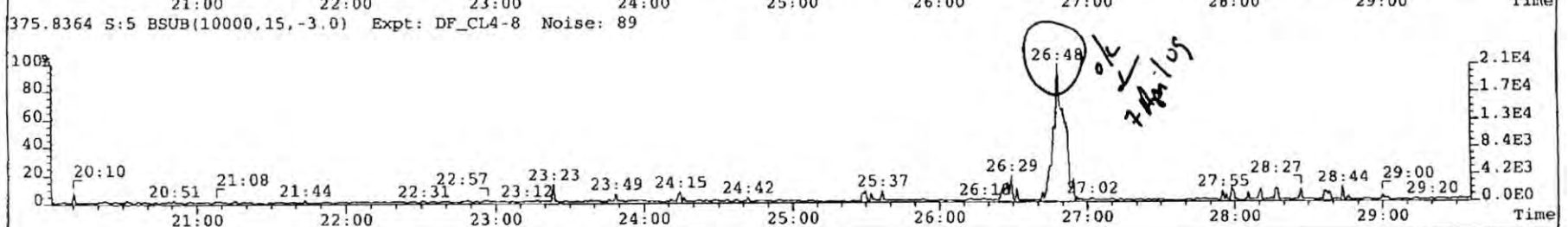
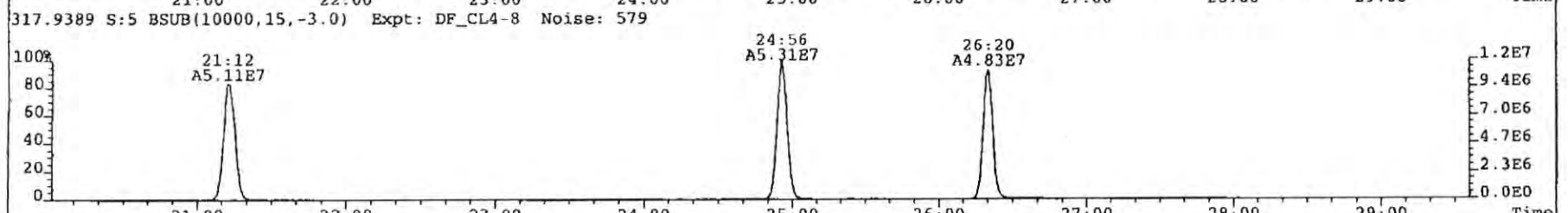
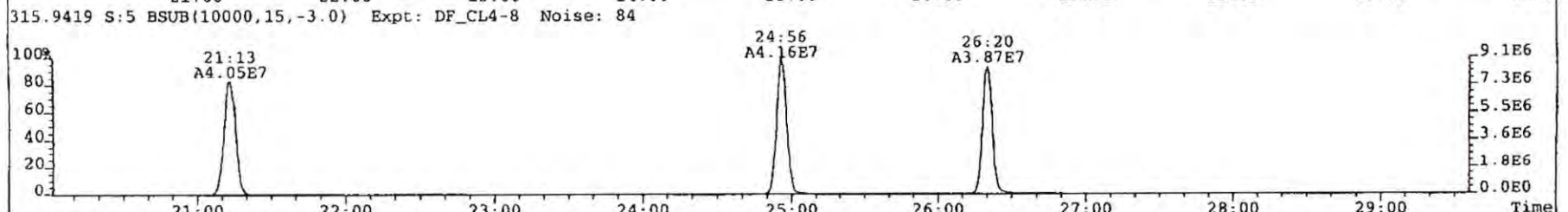
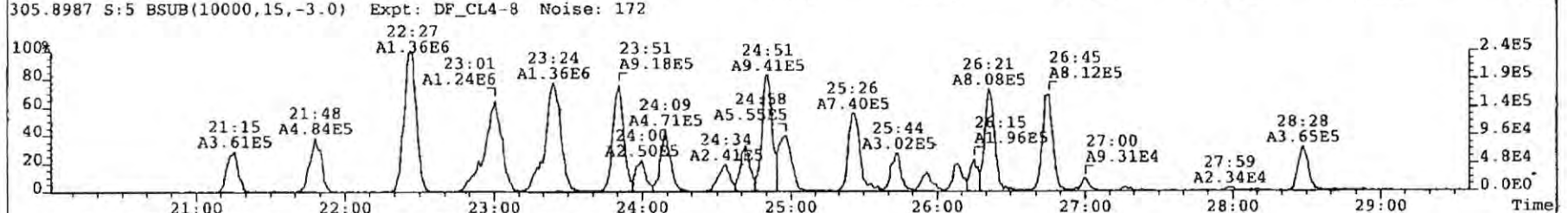
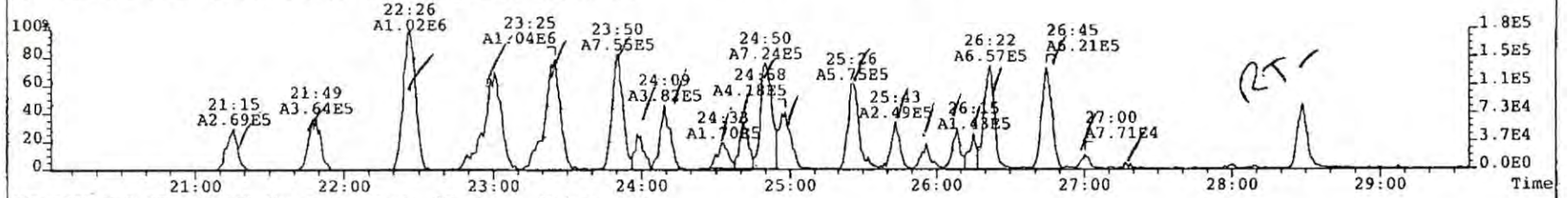


454.9728 S:5 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

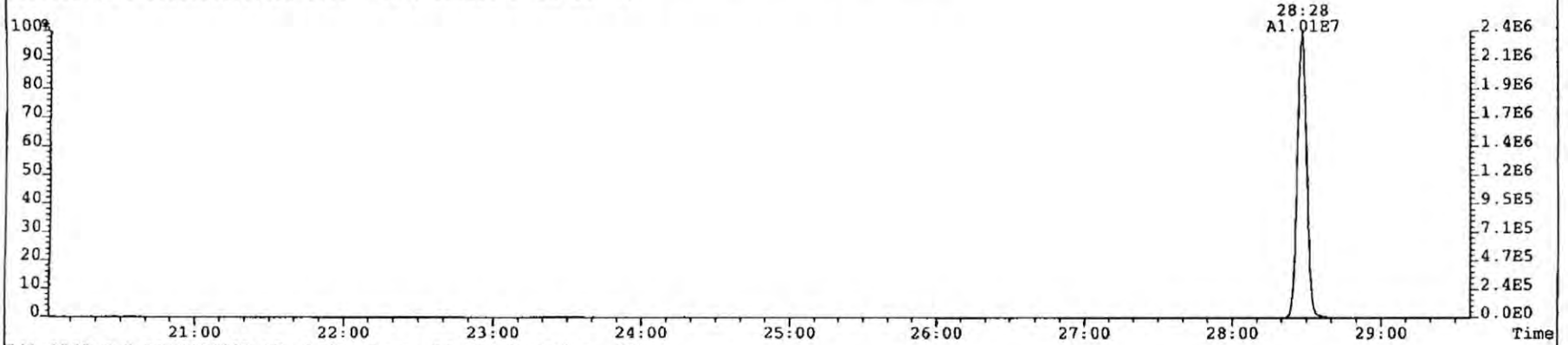




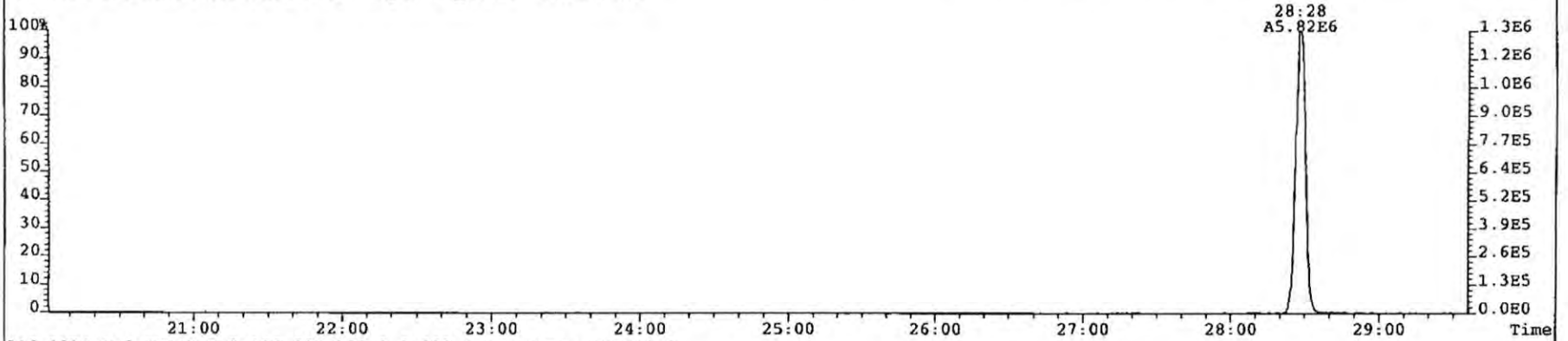
File: 090325P2 Acq: 26-MAR-2009 02:13:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: P1193\_6679\_008 PO-UP-23B-SS-A-090313 10.02g Vial# 25 File Text: AP DB5  
303.9016 S:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 217



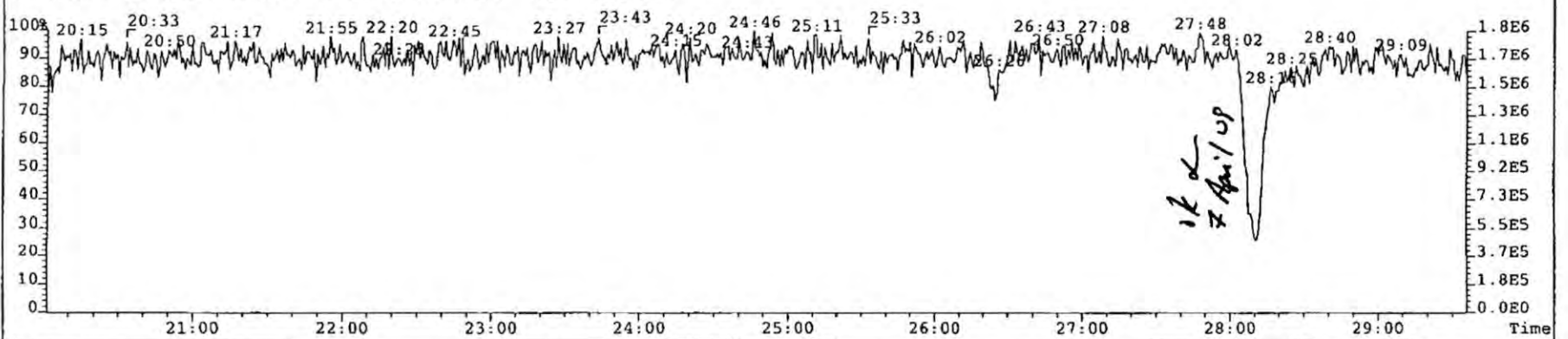
File: 090325P2 Acq: 26-MAR-2009 02:13:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: P1193\_6679\_008 PO-UP-23B-SS-A-090313 10.02g Vial# 25 File Text: AP DB5  
339.8597 S:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 96



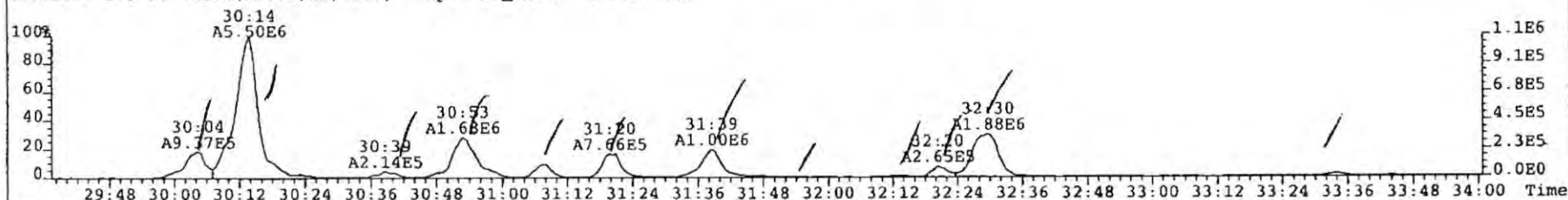
341.8568 S:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 101



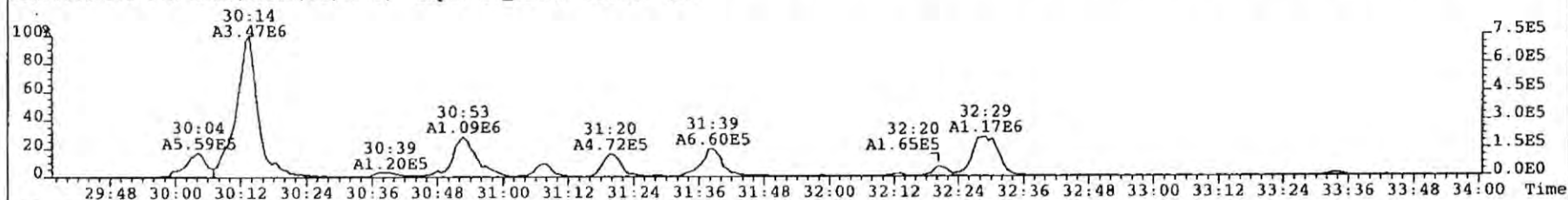
316.9824 S:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



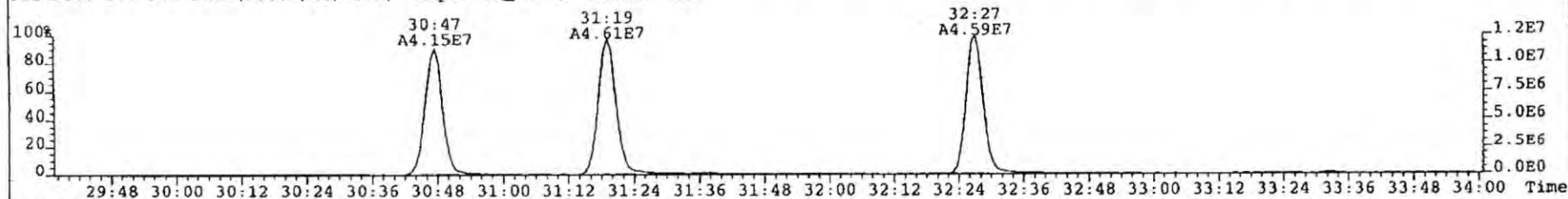
File: 090325P2 Acq: 26-MAR-2009 02:13:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: P1193\_6679\_008 PO-UP-23B-SS-A-090313 10.02g Vial# 25 File Text: AP DB5  
339.8597 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 686



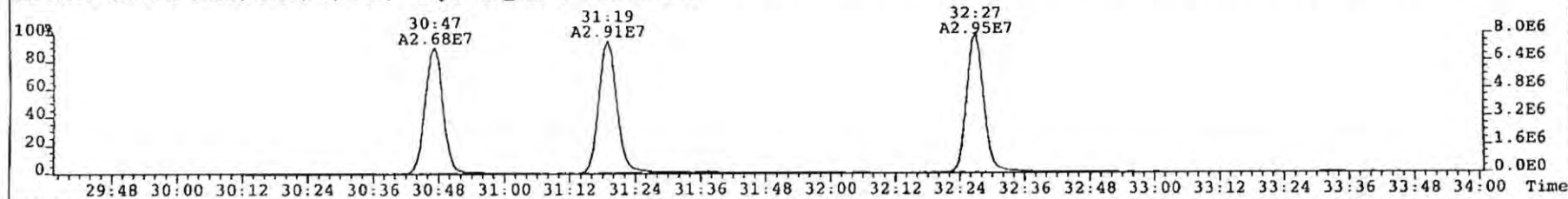
341.8568 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 423



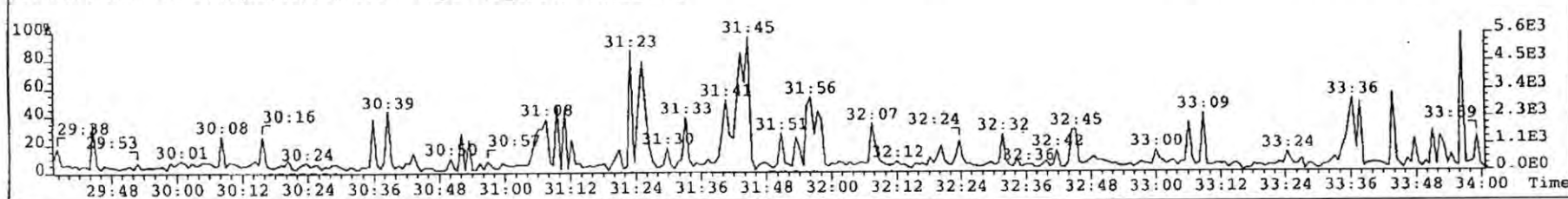
351.9000 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 2899



353.8970 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 2584

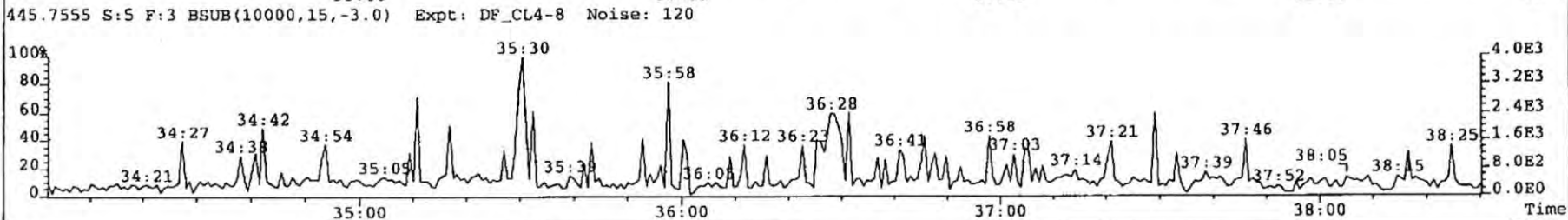
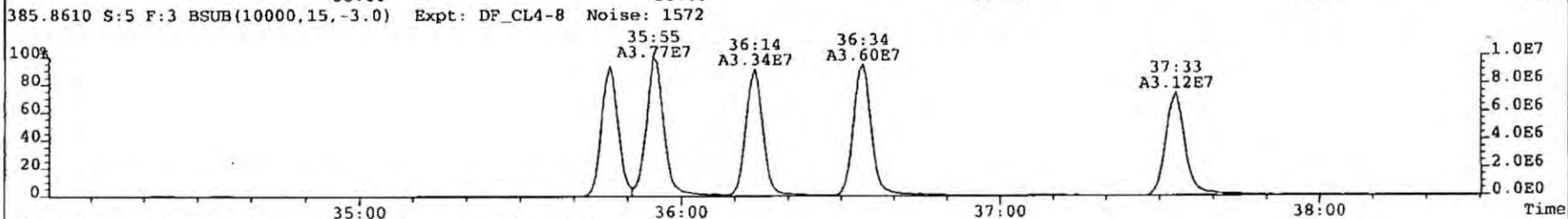
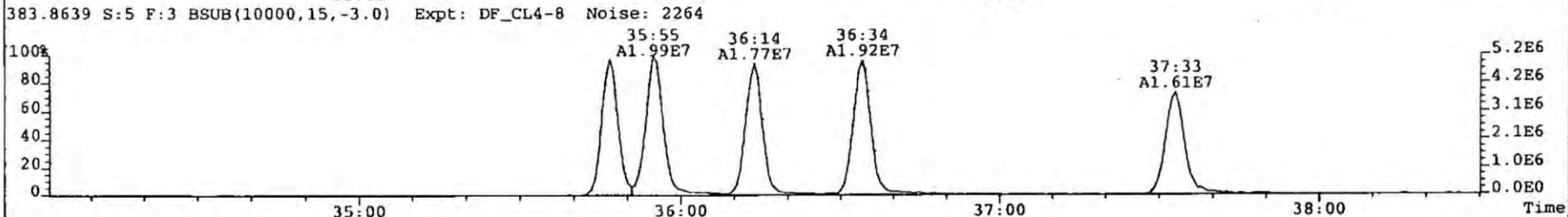
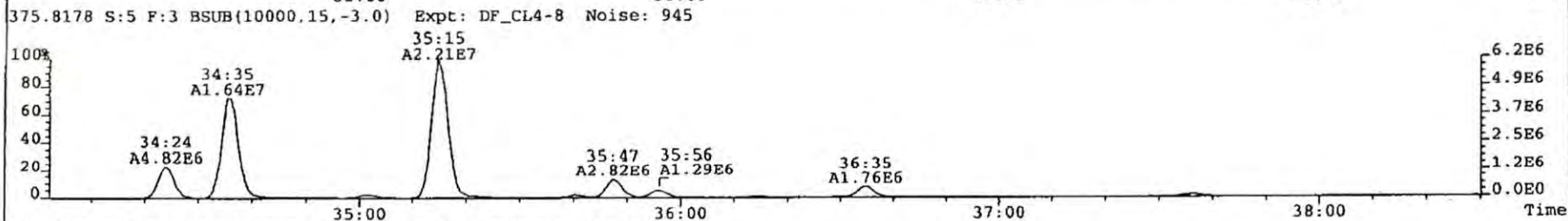
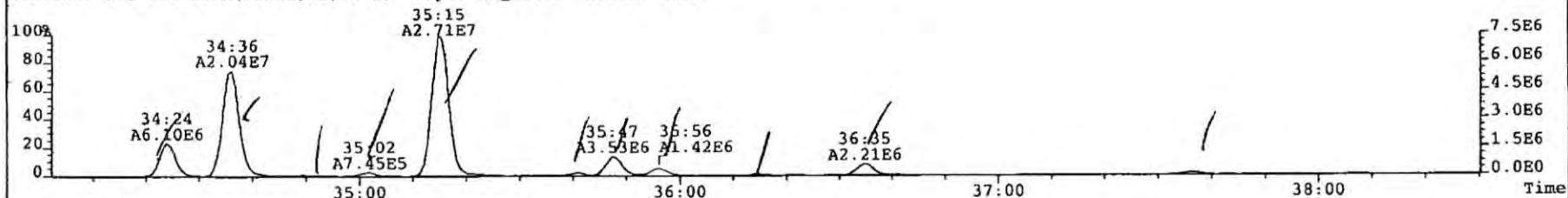


409.7974 S:5 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 92

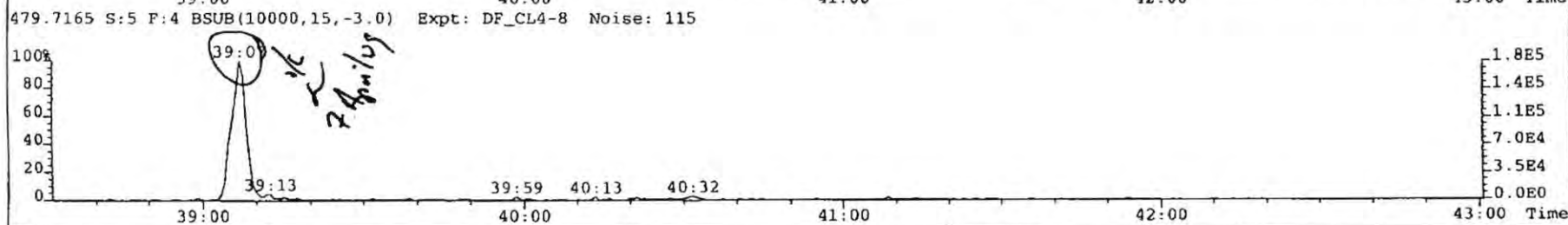
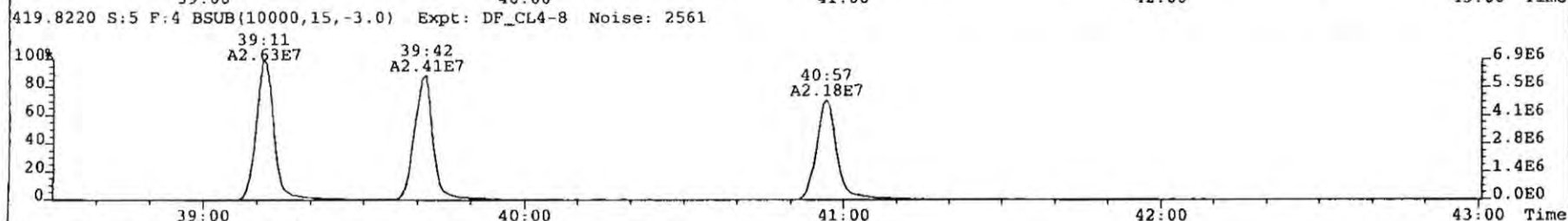
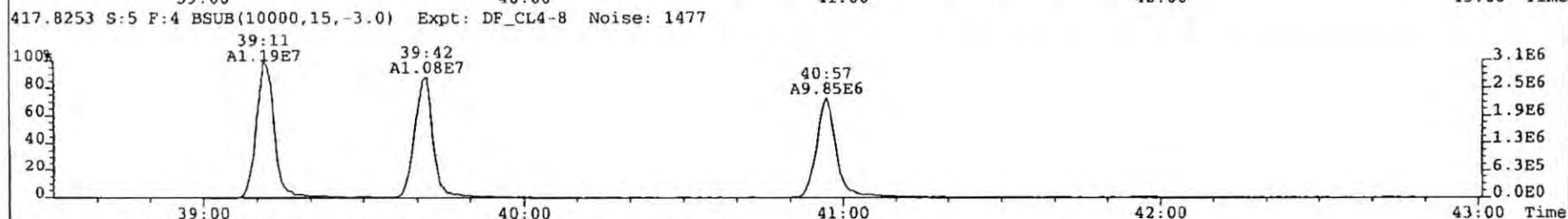
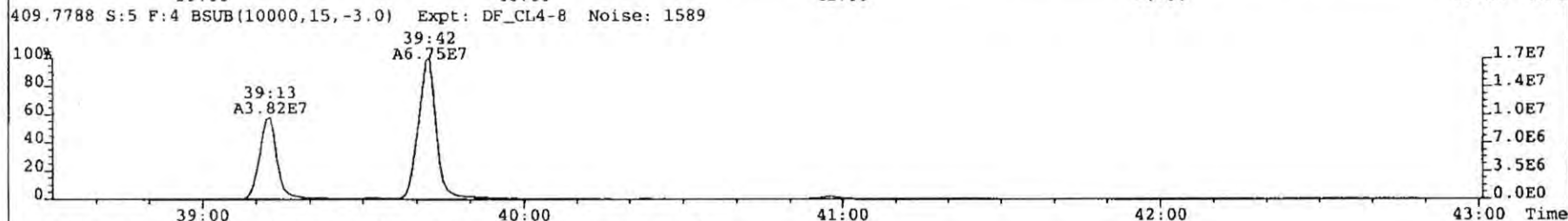
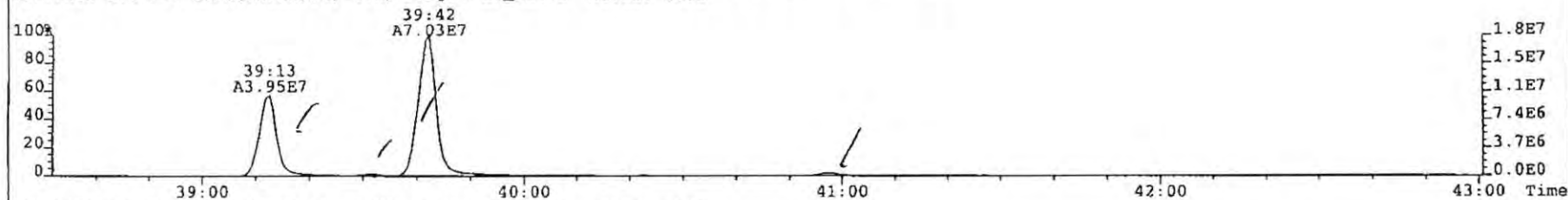




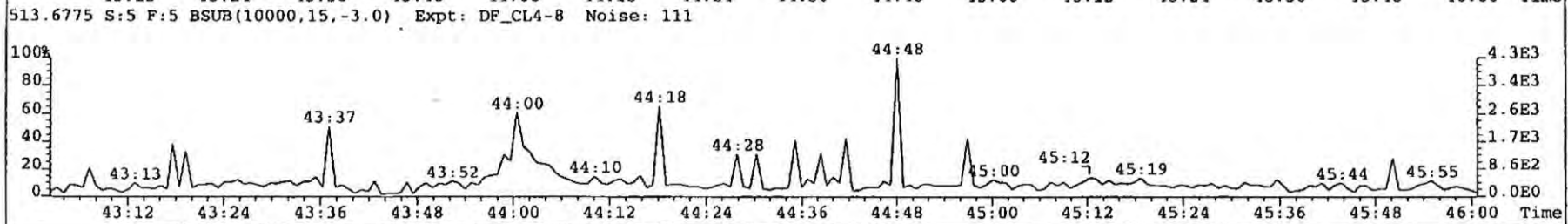
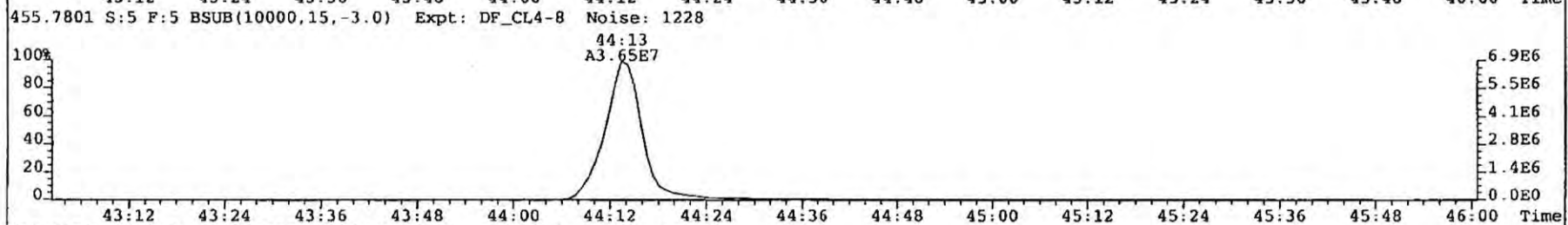
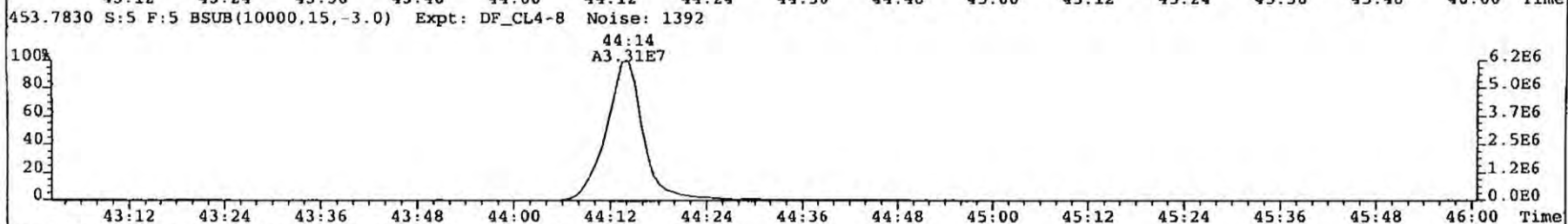
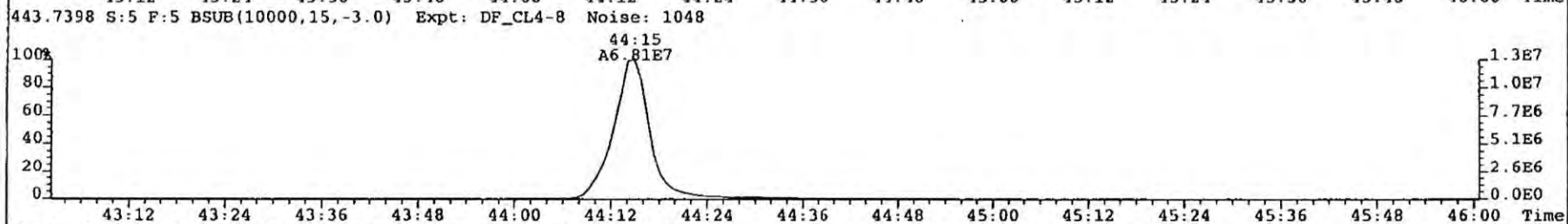
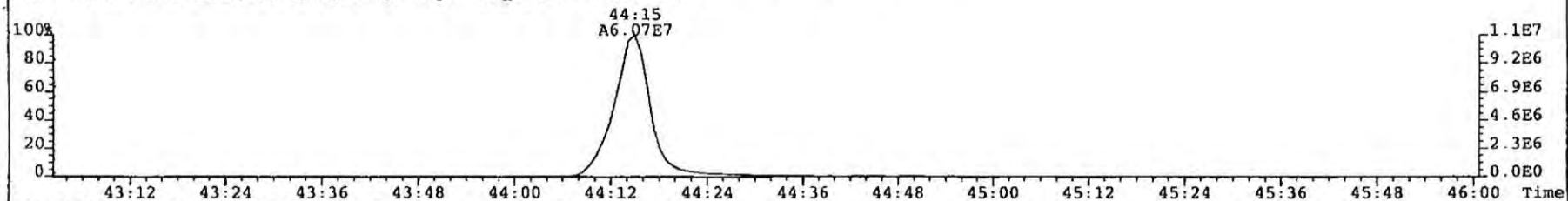
File: 090325P2 Acq: 26-MAR-2009 02:13:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: P1193\_6679\_008 PO-UP-23B-SS-A-090313 10.02g Vial# 25 File Text: AP DB5  
373.8207 S:5 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1246



File: 090325P2 Acq: 26-MAR-2009 02:13:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: P1193\_6679\_008 PO-UP-23B-SS-A-090313 10.02g Vial# 25 File Text: AP DB5  
407.7818 S:5 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1618



File: 090325P2 Acq: 26-MAR-2009 02:13:51 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: P1193\_6679\_008 PO-UP-23B-SS-A-090313 10.02g Vial# 25 File Text: AP DB5  
441.7428 S:5 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 947







1613/8290 Sample Summary

Analytical Perspectives

[Form: DF]

Client ID: PO-AM-28-SS-A-090313      Filename: 090325P2      S: 6      Vial: 26      Acq: 26-MAR-09 03:03:54  
 Lab ID: P1193\_6679\_009      GC column ID: db-5      Cal: MM1\_DF\_07012007A\_25DEC08wt/Vol: 10.02  
 Sample text: P1193\_6679\_009 PO-AM-28-SS-A-090313 10.02g      Stds: JS (split adj.): 2000      CS/SS: 800      ES: 2000

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	2.25e+05	0.64 <sup>n</sup>	27:19	1.08	0.634	1730	2.5	0.0952	-
Ax	1,2,3,7,8-PeCDD	9.66e+05	1.49 y	32:51	1.00	3.28	2398	2.5	0.199	-
Ax	1,2,3,4,7,8-HxCDD	1.53e+06	1.16 y	36:47	1.08	6.30	8302	2.5	0.690	-
Ax	1,2,3,6,7,8-HxCDD	7.13e+06	1.20 y	36:54	0.94	28.7	8302	2.5	0.758	-
Ax	1,2,3,7,8,9-HxCDD	3.41e+06	1.21 y	37:13	0.99	12.6	8302	2.5	0.789	-
Ax	1,2,3,4,6,7,8-HpCDD	1.41e+08	1.05 y	40:25	0.97	635	20166	2.5	1.83	-
Ax	OCDD	8.34e+08	0.90 y	44:03	1.06	5080	57469	2.5	7.95	-
Ax2	OCDD-a	4.97e+07	2.56 y	44:02	0.06	5080	8817	2.5	20.4	-
Ax	2,3,7,8-TCDF	1.49e+06	0.74 y	26:23	1.05	2.67	1364	2.5	0.0487	-
Ax	1,2,3,7,8-PeCDF	1.11e+06	1.41 y	31:22	0.98	2.44	2402	2.5	0.123	-
Ax	2,3,4,7,8-PeCDF	2.40e+06	1.59 y	32:31	1.01	5.01	2402	2.5	0.115	-
Ax	1,2,3,4,7,8-HxCDF	4.63e+06	1.21 y	35:49	1.22	12.1	4791	2.5	0.167	-
Ax	1,2,3,6,7,8-HxCDF	2.29e+06	1.20 y	35:57	1.15	5.49	4791	2.5	0.167	-
Ax	2,3,4,6,7,8-HxCDF	3.14e+06	1.17 y	36:36	1.13	7.96	4791	2.5	0.179	-
Ax	1,2,3,7,8,9-HxCDF	7.44e+05	1.16 y	37:38	1.12	2.25	4791	2.5	0.237	-
Ax	1,2,3,4,6,7,8-HpCDF	6.44e+07	1.04 y	39:14	1.37	195	6700	2.5	0.270	-
Ax	1,2,3,4,7,8,9-HpCDF	1.92e+06	1.08 y	40:59	1.32	7.19	6700	2.5	0.394	-
Ax	OCDF	8.11e+07	0.89 y	44:16	0.94	410	16960	2.5	2.03	-
Ax2	OCDF-a	4.71e+06	2.77 y	44:16	0.05	424	1974	2.5	4.20	-
ES	13C-2,3,7,8-TCDD	6.55e+07	0.81 y	27:17	0.99	158	1723	2.5	0.0768	79.1
ES	13C-1,2,3,7,8-PeCDD	5.89e+07	1.63 y	32:50	0.83	169	16071	2.5	0.852	84.6
ES	13C-1,2,3,4,7,8-HxCDD	4.49e+07	1.29 y	36:46	1.08	145	17210	2.5	1.13	72.9
ES	13C-1,2,3,6,7,8-HxCDD	5.25e+07	1.30 y	36:54	1.23	150	17210	2.5	0.998	75.3
ES	13C-1,2,3,7,8,9-HxCDD	5.44e+07	1.36 y	37:12	1.21	158	17210	2.5	1.01	79.0
ES	13C-1,2,3,4,6,7,8-HpCDD	4.56e+07	1.08 y	40:24	0.98	163	7083	2.5	0.512	81.6
ES	13C-OCDD	6.17e+07	0.86 y	44:01	0.66	329	10023	2.5	1.08	82.3
ES	13C-2,3,7,8-TCDF	1.06e+08	0.79 y	26:22	0.96	194	2289	2.5	0.0867	97.0
ES	13C-1,2,3,7,8-PeCDF	9.22e+07	1.56 y	31:21	0.85	188	10970	2.5	0.466	94.3
ES	13C-2,3,4,7,8-PeCDF	9.41e+07	1.59 y	32:29	0.88	185	10970	2.5	0.449	92.9
ES	13C-1,2,3,4,7,8-HxCDF	6.29e+07	0.53 y	35:48	1.47	150	27174	2.5	1.31	75.0
ES	13C-1,2,3,6,7,8-HxCDF	7.22e+07	0.55 y	35:57	1.78	143	27174	2.5	1.09	71.5
ES	13C-2,3,4,6,7,8-HxCDF	6.97e+07	0.53 y	36:35	1.61	152	27174	2.5	1.20	76.1
ES	13C-1,2,3,7,8,9-HxCDF	5.91e+07	0.53 y	37:35	1.40	148	27174	2.5	1.38	74.2
ES	13C-1,2,3,4,6,7,8-HpCDF	4.82e+07	0.45 y	39:13	1.16	146	13944	2.5	0.854	73.0
ES	13C-1,2,3,4,7,8,9-HpCDF	4.03e+07	0.46 y	40:59	0.92	154	13944	2.5	1.08	77.0
ES	13C-OCDF	8.41e+07	0.91 y	44:16	1.04	284	15624	2.5	1.07	71.2
CS	37Cl-2,3,7,8-TCDD	2.73e+07		27:19	0.99	66.0			0.385	82.7
CS	13C-1,2,3,4,7-PeCDD	5.39e+07	1.64 y	32:20	0.77	168	16071	2.5	0.924	83.9
CS	13C-1,2,3,4,6-PeCDF	8.96e+07	1.55 y	30:49	0.79	196	10970	2.5	0.500	98.4
CS	13C-1,2,3,4,6,9-HxCDF	6.51e+07	0.54 y	36:15	1.41	162	27174	2.5	1.37	81.1
CS	13C-1,2,3,4,6,8,9-HpCDF	4.39e+07	0.46 y	39:43	0.91	169	13944	2.5	1.09	84.9
NA	n/a	*	* n	NotF»	Div0	*	406	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	8.34e+07	0.82 y	26:37	-	23.7	1723	2.5	-	-
JS	13C-1,2,3,4-TCDF	1.15e+08	0.78 y	24:58	-	20.6	2289	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	2.84e+07	1.16 y	37:05	-	13.0	1630	2.5	-	-

Analyst:   
 Date: 

7 April 09

SS	37Cl-2,3,7,8-TCDD	2.73e+07		27:19	1.00	83.0			0.513	104
SS	13C-1,2,3,4,7-PeCDD	5.39e+07	1.64 y	32:20	0.93	197	16071	2.5	1.44	98.6
SS	13C-1,2,3,4,6-PeCDF	8.96e+07	1.55 y	30:49	0.94	207	10970	2.5	0.590	104
SS	13C-1,2,3,4,6,9-HxCDF	6.51e+07	0.54 y	36:15	0.80	225	27174	2.5	1.36	113
SS	13C-1,2,3,4,6,8,9-HpCDF	4.39e+07	0.46 y	39:43	0.79	230	13944	2.5	0.969	115
SBS	2,4,6,8-TCDF	2.25e+06	0.76 y	22:29	1.05	4.04	1364	2.5	0.0487	-
Ay	1,3,6,8-TCDD	3.23e+06	0.80 y	23:27	1.08	9.09	1730	2.5	0.0952	-
Ay	1,2,3,9-TCDD	7.31e+04	0.83 y	27:10	1.08	0.206	1730	2.5	0.0952	-
Ay	1,2,8,9-TCDD	3.41e+04	0.80 y	28:20	1.08	0.0959	1730	2.5	0.0952	-
Ay	1,2,4,7,9-PeCDD	4.60e+06	1.61 y	30:19	1.00	15.6	2398	2.5	0.199	-
Ay	1,2,3,8,9-PeCDD	3.12e+05	1.47 y	33:18	1.00	1.06	2398	2.5	0.199	-
Ay	1,2,4,6,7,9-HxCDD	2.56e+07	1.23 y	35:05	1.00	101	8302	2.5	0.746	-
Ay	1,2,3,4,6,7,9-HpCDD	2.14e+08	1.05 y	39:33	0.97	962	20166	2.5	1.83	-
Ay	1,3,6,8-TCDF	6.41e+05	0.78 y	21:19	1.05	1.15	1364	2.5	0.0487	-
Ay	2,3,4,8-TCDF	4.10e+05	0.77 y	26:16	1.05	0.735	1364	2.5	0.0487	-
Ay	1,2,8,9-TCDF	*	* n	NotF»	1.05	*	1364	2.5	0.0487	-
Ay	1,3,4,6,8-PeCDF	1.40e+07	1.70 y	28:30	1.05	25.1	1691	2.5	0.0604	-
Ay	1,2,3,8,9-PeCDF	1.48e+05	1.67 y	33:35	1.00	0.318	2402	2.5	0.119	-
Ay	1,2,3,4,6,8-HxCDF	9.30e+06	1.27 y	34:26	1.15	24.4	4791	2.5	0.185	-
Tot	Total Tetra-Dioxins	9.18e+06	0.80 y	23:27	1.08	25.8	1730	2.5	0.0952	-
Tot	Total Penta-Dioxins	1.52e+07	1.61 y	30:19	1.00	51.6	2398	2.5	0.199	-
Tot	Total Hexa-Dioxins	7.18e+07	1.23 y	35:05	1.00	282	8302	2.5	0.746	-
Tot	Total Hepta-Dioxins	3.55e+08	1.05 y	39:33	0.97	1600	20166	2.5	1.83	-
Tot	Total Tetra-Furans	1.99e+07	0.78 y	21:19	1.05	35.7	1364	2.5	0.0487	-
Tot	Total Penta-Furans	1.77e+07	1.57 y	30:06	1.00	37.8	2402	2.5	0.119	-
Tot	Total Hexa-Furans	9.19e+07	1.27 y	34:26	1.15	240	4791	2.5	0.185	-
Tot	Total Hepta-Furans	1.66e+08	1.04 y	39:14	1.35	535	6700	2.5	0.325	-
Tot	TCDD EMPC	1.02e+07	0.80 y	23:27	1.08	28.8	1730	2.5	0.0952	-
Tot	PeCDD EMPC	1.52e+07	1.61 y	30:19	1.00	51.6	2398	2.5	0.199	-
Tot	HxCDD EMPC	7.18e+07	1.23 y	35:05	1.00	282	8302	2.5	0.746	-
Tot	HpCDD EMPC	3.55e+08	1.05 y	39:33	0.97	1600	20166	2.5	1.83	-
Tot	TCDF EMPC	2.17e+07	0.78 y	21:19	1.05	38.9	1364	2.5	0.0487	-
Tot	PeCDF EMPC	1.78e+07	1.57 y	30:06	1.00	38.1	2402	2.5	0.119	-
Tot	HxCDF EMPC	9.24e+07	1.27 y	34:26	1.15	242	4791	2.5	0.185	-
Tot	HpCDF EMPC	1.66e+08	1.04 y	39:14	1.35	535	6700	2.5	0.325	-
AS	13C-1,3,6,8-TCDD	6.37e+07	0.82 y	23:25	1.09	140	1723	2.5	0.0702	70.3
AS	13C-1,3,6,8-TCDF	1.17e+08	0.78 y	21:17	1.09	186	2289	2.5	0.0761	93.4
DPE	HxCdPE	*		NotF»	-	*	-	-	-	-
DPE	HpCdPE	*		NotF»	-	*	-	-	-	-
DPE	OCdPE	*		NotF»	-	*	-	-	-	-
DPE	NCDPE	*		NotF»	-	*	-	-	-	-
DPE	DCdPE	*		NotF»	-	*	-	-	-	-
LMC	Fn1 check mass	*		NotF»	-	*	-	-	-	-
LMC	Fn2 check mass	*		NotF»	-	*	-	-	-	-
LMC	Fn3 check mass	*		NotF»	-	*	-	-	-	-
LMC	Fn4 check mass	*		NotF»	-	*	-	-	-	-
LMC	Fn5 check mass	*		NotF»	-	*	-	-	-	-

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Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDD EMPC Function: 1 Run #: 13 Checkcode: 5672  
 File Name: 090325P2 Sample #: 6 Sample text: P1193\_6679\_009 PO-AM-28-SS-A-090313 10.»

Acquired: 26-MAR-09 03:03:54 Processed: 26-MAR-09 08:42:20

Total Conc.: 28.841 Unnamed Conc.: 18.814 Homolog count: 17

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name		
23:27	1.432e+06	n	1.799e+06	n	0.80	y	3.231e+06	3.231e+06	2.10e+02	y	9.09	1,3,6,8-TCDD
23:51	9.539e+05	n	1.206e+06	n	0.79	y	2.160e+06	2.160e+06	1.31e+02	y	6.08	
24:18	1.343e+05	n	1.546e+05	n	0.87	y	2.888e+05	2.888e+05	1.69e+01	y	0.813	
25:08	1.561e+05	n	1.603e+05	n	0.97	n	3.164e+05	2.837e+05	2.07e+01	y	0.798	
25:22	2.614e+05	y	2.917e+05	y	0.90	n	5.532e+05	5.164e+05	3.94e+01	y	1.45	
25:35	2.663e+05	n	3.473e+05	y	0.77	y	6.136e+05	6.136e+05	4.41e+01	y	1.73	
25:47	9.318e+04	y	1.063e+05	y	0.88	y	1.995e+05	1.995e+05	1.16e+01	y	0.561	
26:03	3.518e+04	y	4.595e+04	n	0.77	y	8.113e+04	8.113e+04	5.63e+00	y	0.228	
26:13	1.046e+05	n	1.305e+05	n	0.80	y	2.350e+05	2.350e+05	1.61e+01	y	0.661	
26:38	2.186e+05	y	3.095e+05	y	0.71	y	5.281e+05	5.281e+05	3.60e+01	y	1.49	
26:46	2.413e+04	y	3.045e+04	y	0.79	y	5.459e+04	5.459e+04	6.92e+00	y	0.154	
27:02	6.488e+05	y	8.333e+05	n	0.78	y	1.482e+06	1.482e+06	9.78e+01	y	4.17	
27:10	3.316e+04	y	3.998e+04	y	0.83	y	7.314e+04	7.314e+04	8.22e+00	y	0.206	1,2,3,9-TCDD
27:19	9.800e+04	n	1.542e+05	n	0.64	n	2.522e+05	2.253e+05	2.48e+01	y	0.634	2,3,7,8-TCDD
27:39	8.977e+04	n	1.077e+05	n	0.83	y	1.975e+05	1.975e+05	1.70e+01	y	0.556	
27:48	2.475e+04	y	2.575e+04	y	0.96	n	5.050e+04	4.557e+04	2.96e+00	y	0.128	
28:20	1.511e+04	n	1.899e+04	n	0.80	y	3.409e+04	3.409e+04	4.01e+00	y	0.0959	1,2,8,9-TCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDD EMPC Function: 2 Run #: 13 Checkcode: 5672  
 File Name: 090325P2 Sample #: 6 Sample text: P1193\_6679\_009 PO-AM-28-SS-A-090313 10.»

Acquired: 26-MAR-09 03:03:54 Processed: 26-MAR-09 08:42:20

Total Conc.: 51.602 Unnamed Conc.: 31.631 Homolog count: 10

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name		
30:19	2.840e+06	n	1.761e+06	n	1.61	y	4.601e+06	4.601e+06	1.43e+02	y	15.6	1,2,4,7,9-PeCDD
30:51	8.512e+05	n	4.991e+05	n	1.71	y	1.350e+06	1.350e+06	5.85e+01	y	4.59	
31:24	1.501e+06	n	9.236e+05	n	1.62	y	2.424e+06	2.424e+06	1.08e+02	y	8.24	
31:36	7.301e+05	n	4.520e+05	n	1.62	y	1.182e+06	1.182e+06	5.69e+01	y	4.02	
31:42	1.191e+06	n	7.454e+05	n	1.60	y	1.937e+06	1.937e+06	8.64e+01	y	6.58	
31:58	8.172e+05	n	5.145e+05	n	1.59	y	1.332e+06	1.332e+06	4.16e+01	y	4.52	
32:21	4.886e+05	n	2.910e+05	n	1.68	y	7.795e+05	7.795e+05	3.17e+01	y	2.65	
32:51	5.775e+05	n	3.888e+05	n	1.49	y	9.663e+05	9.663e+05	4.54e+01	y	3.28	1,2,3,7,8-PeCDD
32:57	1.926e+05	n	1.143e+05	n	1.68	y	3.069e+05	3.069e+05	1.20e+01	y	1.04	
33:18	1.859e+05	n	1.263e+05	n	1.47	y	3.121e+05	3.121e+05	1.39e+01	y	1.06	1,2,3,8,9-PeCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDD EMPC Function: 3 Run #: 13 Checkcode: 5672  
 File Name: 090325P2 Sample #: 6 Sample text: P1193\_6679\_009 PO-AM-28-SS-A-090313 10.»

Acquired: 26-MAR-09 03:03:54 Processed: 26-MAR-09 08:42:20

Total Conc.: 282.36 Unnamed Conc.: 133.942 Homolog count: 8



RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
35:05	1.412e+07	n	1.152e+07	n	1.23 y	2.564e+07	2.564e+07	3.91e+02	y	101 1,2,4,6,7,9-HxCDD	
35:45	3.543e+06	n	2.869e+06	n	1.23 y	6.412e+06	6.412e+06	9.42e+01	y	25.2	
36:02	1.335e+07	n	1.093e+07	n	1.22 y	2.427e+07	2.427e+07	2.91e+02	y	95.4	
36:10	1.275e+06	n	1.206e+06	n	1.06 y	2.481e+06	2.481e+06	3.23e+01	y	9.76	
36:47	8.228e+05	n	7.105e+05	n	1.16 y	1.533e+06	1.533e+06	2.50e+01	y	6.30 1,2,3,4,7,8-HxCDD	
36:54	3.887e+06	n	3.242e+06	n	1.20 y	7.129e+06	7.129e+06	1.00e+02	y	28.7 1,2,3,6,7,8-HxCDD	
37:06	4.975e+05	n	4.050e+05	n	1.23 y	9.025e+05	9.025e+05	1.23e+01	y	3.55	
37:13	1.868e+06	n	1.538e+06	n	1.21 y	3.405e+06	3.405e+06	4.55e+01	y	12.6 1,2,3,7,8,9-HxCDD	
Totals Results						Analytical Perspectives			[Form: TOT]		

Totals class: HpCDD EMPC Function: 4 Run #: 13 Checkcode: 5672  
 File Name: 090325P2 Sample #: 6 Sample text: P1193\_6679\_009 PO-AM-28-SS-A-090313 10.»

Acquired: 26-MAR-09 03:03:54 Processed: 26-MAR-09 08:42:20

Total Conc.: 1596.5 Unnamed Conc.: \* Homolog count: 2

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
39:33	1.097e+08	n	1.042e+08	n	1.05 y	2.140e+08	2.140e+08	1.36e+03	y	962 1,2,3,4,6,7,9-HpCDD	
40:25	7.237e+07	n	6.884e+07	n	1.05 y	1.412e+08	1.412e+08	8.92e+02	y	635 1,2,3,4,6,7,8-HpCDD	
Totals Results						Analytical Perspectives			[Form: TOT]		

Totals class: TCDF EMPC Function: 1 Run #: 13 Checkcode: 5672  
 File Name: 090325P2 Sample #: 6 Sample text: P1193\_6679\_009 PO-AM-28-SS-A-090313 10.»

Acquired: 26-MAR-09 03:03:54 Processed: 26-MAR-09 08:42:20

Total Conc.: 38.929 Unnamed Conc.: 30.339 Homolog count: 21

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
21:19	2.803e+05	n	3.611e+05	n	0.78 y	6.415e+05	6.415e+05	5.26e+01	y	1.15 1,3,6,8-TCDF	
21:52	4.098e+05	n	5.240e+05	n	0.78 y	9.338e+05	9.338e+05	8.21e+01	y	1.68	
22:29	9.714e+05	n	1.279e+06	n	0.76 y	2.251e+06	2.251e+06	1.67e+02	y	4.04 2,4,6,8-TCDF	
23:01	1.070e+06	n	1.386e+06	n	0.77 y	2.456e+06	2.456e+06	1.33e+02	y	4.41	
23:25	1.050e+06	n	1.326e+06	n	0.79 y	2.376e+06	2.376e+06	1.32e+02	y	4.26	
23:52	6.450e+05	y	7.847e+05	y	0.82 y	1.430e+06	1.430e+06	1.14e+02	y	2.56	
24:01	2.098e+05	y	2.479e+05	y	0.85 y	4.577e+05	4.577e+05	4.10e+01	y	0.821	
24:17	3.957e+05	y	5.090e+05	y	0.78 y	9.047e+05	9.047e+05	7.30e+01	y	1.62	
24:34	2.069e+05	y	2.613e+05	y	0.79 y	4.682e+05	4.682e+05	4.00e+01	y	0.840	
24:43	3.354e+05	y	4.122e+05	y	0.81 y	7.476e+05	7.476e+05	6.45e+01	y	1.34	
24:52	7.050e+05	y	7.718e+05	y	0.91 n	1.477e+06	1.366e+06	1.26e+02	y	2.45	
24:59	4.612e+05	y	6.645e+05	y	0.69 y	1.126e+06	1.126e+06	8.29e+01	y	2.02	
25:28	5.855e+05	y	7.849e+05	n	0.75 y	1.370e+06	1.370e+06	1.10e+02	y	2.46	
25:45	2.498e+05	y	3.074e+05	n	0.81 y	5.572e+05	5.572e+05	4.39e+01	y	1.000	
25:57	1.603e+05	y	1.965e+05	n	0.82 y	3.568e+05	3.568e+05	2.87e+01	y	0.640	
26:10	2.411e+05	y	2.571e+05	y	0.94 n	4.982e+05	4.550e+05	4.38e+01	y	0.816	
26:18	1.786e+05	y	2.313e+05	y	0.77 y	4.099e+05	4.099e+05	4.16e+01	y	0.735 2,3,4,8-TCDF	
26:23	6.304e+05	y	8.556e+05	y	0.74 y	1.486e+06	1.486e+06	1.49e+02	y	2.67 2,3,7,8-TCDF	
26:46	7.306e+05	n	9.297e+05	n	0.79 y	1.660e+06	1.660e+06	1.45e+02	y	2.98	
27:01	7.399e+04	n	9.697e+04	n	0.76 y	1.710e+05	1.710e+05	1.87e+01	y	0.307	
27:18	3.191e+04	n	4.316e+04	n	0.74 y	7.507e+04	7.507e+04	8.81e+00	y	0.135	
Totals Results						Analytical Perspectives			[Form: TOT]		

Totals class: PeCDF EMPC Function: 2 Run #: 13 Checkcode: 5672  
 File Name: 090325P2 Sample #: 6 Sample text: P1193\_6679\_009 PO-AM-28-SS-A-090313 10.»

Acquired: 26-MAR-09 03:03:54 Processed: 26-MAR-09 08:42:20

Total Conc.: 38.147 Unnamed Conc.: 30.378 Homolog count: 12 ✓

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
30:06	8.785e+05	n	5.579e+05	n	1.57	y	1.436e+06	1.436e+06	5.48e+01	y	3.08	
30:16	4.415e+06	n	2.738e+06	n	1.61	y	7.153e+06	7.153e+06	2.39e+02	y	15.3	
30:41	2.082e+05	n	1.406e+05	n	1.48	y	3.488e+05	3.488e+05	1.33e+01	y	0.748	
30:55	1.561e+06	n	1.016e+06	n	1.54	y	2.577e+06	2.577e+06	7.94e+01	y	5.52	
31:09	3.757e+05	n	2.448e+05	n	1.53	y	6.205e+05	6.205e+05	3.09e+01	y	1.33	
31:22	6.489e+05	n	4.600e+05	n	1.41	y	1.109e+06	1.109e+06	5.71e+01	y	2.44	1,2,3,7,8-PeCDF
31:40	8.167e+05	n	4.993e+05	n	1.64	y	1.316e+06	1.316e+06	4.74e+01	y	2.82	
31:50	6.254e+04	n	3.335e+04	n	1.88	n	9.588e+04	8.503e+04	3.58e+00	y	0.182	
32:17	6.429e+04	n	3.281e+04	n	1.96	n	9.710e+04	8.367e+04	3.48e+00	y	0.179	
32:28	3.374e+05	n	2.129e+05	n	1.59	y	5.503e+05	5.503e+05	2.41e+01	y	1.18	
32:31	1.469e+06	n	9.263e+05	n	1.59	y	2.396e+06	2.396e+06	7.38e+01	y	5.01	2,3,4,7,8-PeCDF
33:35	9.258e+04	n	5.554e+04	n	1.67	y	1.481e+05	1.481e+05	6.65e+00	y	0.318	1,2,3,8,9-PeCDF
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: HxCDF EMPC Function: 3 Run #: 13 Checkcode: 5672  
 File Name: 090325P2 Sample #: 6 Sample text: P1193\_6679\_009 PO-AM-28-SS-A-090313 10.»

Acquired: 26-MAR-09 03:03:54 Processed: 26-MAR-09 08:42:20

Total Conc.: 241.70 Unnamed Conc.: 189.535 Homolog count: 13 ✓

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
34:26	5.211e+06	n	4.092e+06	n	1.27	y	9.303e+06	9.303e+06	2.44e+02	y	24.4	1,2,3,4,6,8-HxCDF
34:37	1.708e+07	n	1.374e+07	n	1.24	y	3.082e+07	3.082e+07	8.20e+02	y	80.8	
34:53	2.214e+05	n	2.114e+05	n	1.05	n	4.328e+05	3.999e+05	9.03e+00	y	1.05	
35:03	8.174e+05	n	6.744e+05	n	1.21	y	1.492e+06	1.492e+06	3.86e+01	y	3.91	
35:17	2.101e+07	n	1.675e+07	n	1.25	y	3.776e+07	3.776e+07	9.83e+02	y	99.0	
35:32	1.359e+05	n	9.783e+04	n	1.39	y	2.337e+05	2.337e+05	4.58e+00	y	0.613	
35:42	4.985e+05	n	4.111e+05	n	1.21	y	9.096e+05	9.096e+05	2.59e+01	y	2.39	
35:49	2.532e+06	n	2.100e+06	n	1.21	y	4.632e+06	4.632e+06	1.21e+02	y	12.1	1,2,3,4,7,8-HxCDF
35:57	1.249e+06	n	1.039e+06	n	1.20	y	2.288e+06	2.288e+06	5.56e+01	y	5.49	1,2,3,6,7,8-HxCDF
36:07	6.133e+04	n	8.668e+04	n	0.71	n	1.480e+05	1.108e+05	4.16e+00	y	0.291	
36:16	2.827e+05	n	2.660e+05	n	1.06	y	5.487e+05	5.487e+05	1.43e+01	y	1.44	
36:36	1.694e+06	n	1.448e+06	n	1.17	y	3.142e+06	3.142e+06	7.98e+01	y	7.96	2,3,4,6,7,8-HxCDF
37:38	3.988e+05	n	3.448e+05	n	1.16	y	7.436e+05	7.436e+05	1.82e+01	y	2.25	1,2,3,7,8,9-HxCDF
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: HpCDF EMPC Function: 4 Run #: 13 Checkcode: 5672  
 File Name: 090325P2 Sample #: 6 Sample text: P1193\_6679\_009 PO-AM-28-SS-A-090313 10.»

Acquired: 26-MAR-09 03:03:54 Processed: 26-MAR-09 08:42:20

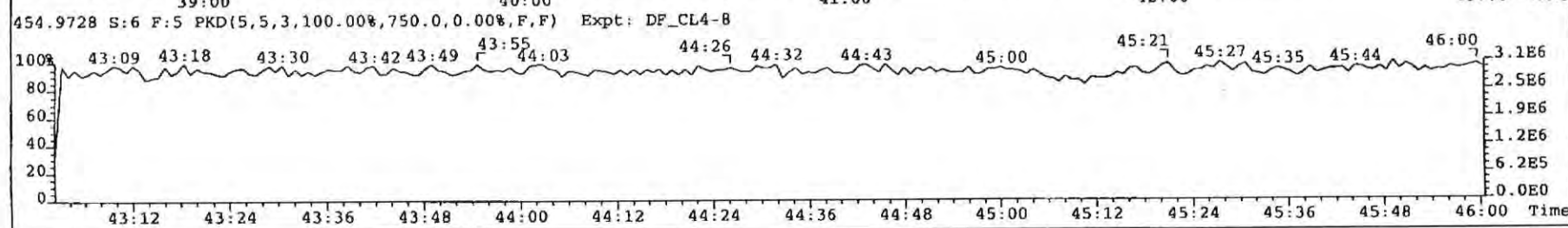
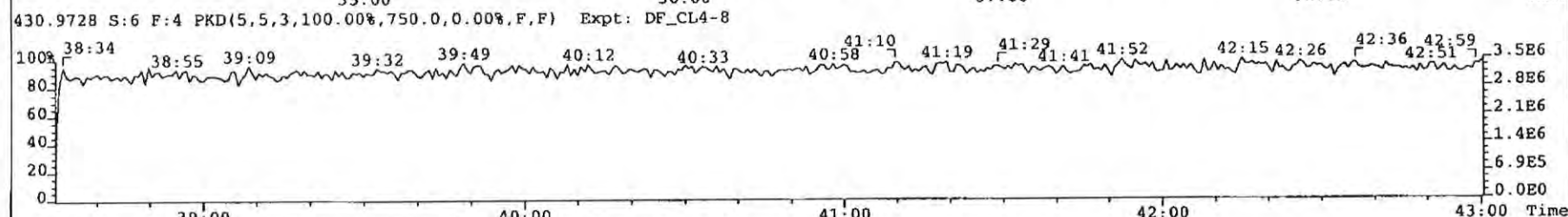
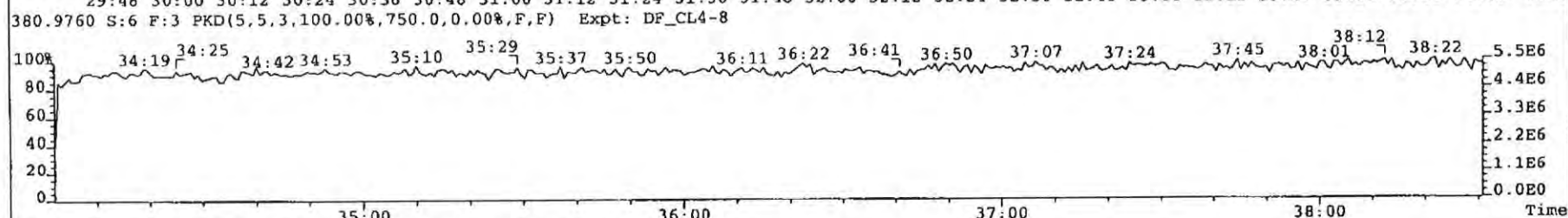
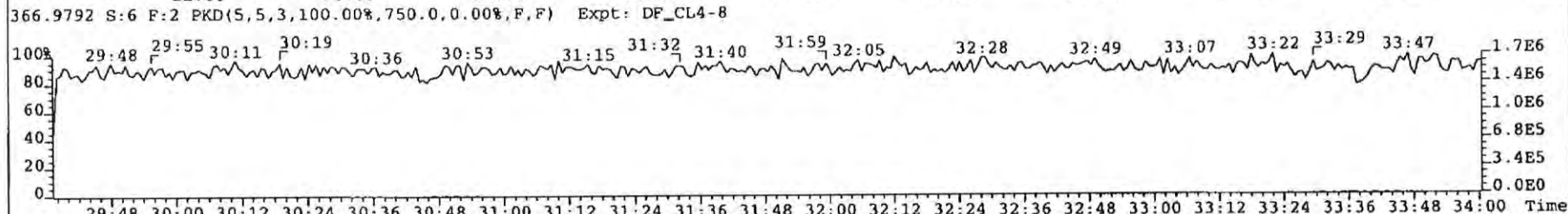
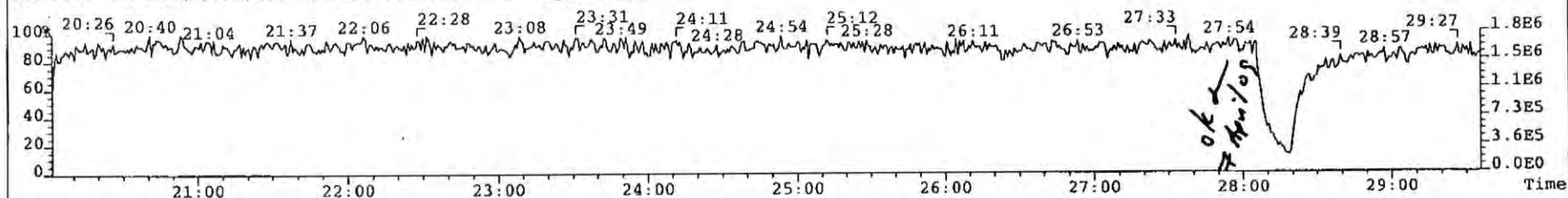
Total Conc.: 535.37 Unnamed Conc.: 332.813 Homolog count: 4 ✓

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
39:14	3.276e+07	n	3.165e+07	n	1.04	y	6.442e+07	6.442e+07	1.28e+03	y	195	1,2,3,4,6,7,8-HpCDF

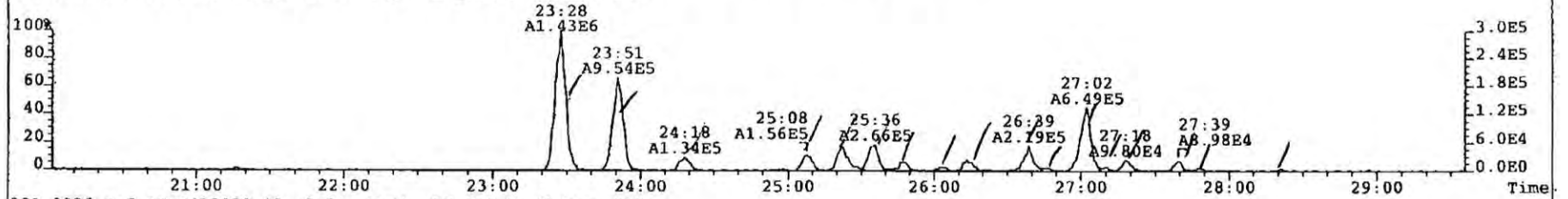
39:32	9.693e+05	n	8.515e+05	n	1.14	y	1.821e+06	1.821e+06	3.12e+01	y	6.10
39:44	5.008e+07	n	4.744e+07	n	1.06	y	9.752e+07	9.752e+07	1.86e+03	y	327
40:59	9.953e+05	n	9.238e+05	n	1.08	y	1.919e+06	1.919e+06	3.64e+01	y	7.19 1,2,3,4,7,8,9-HpCDF



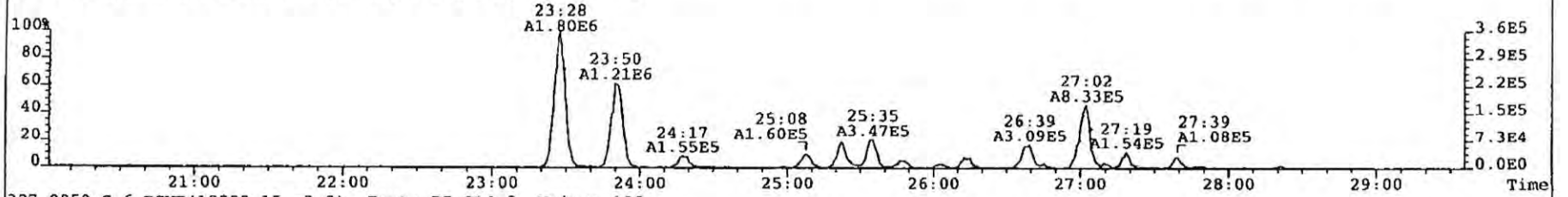
File: 090325P2 Acq: 26-MAR-2009 03:03:54 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: P1193\_6679\_009 PO-AM-28-SS-A-090313 10.02g Vial# 26 File Text: AP DB5  
316.9824 S:6 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



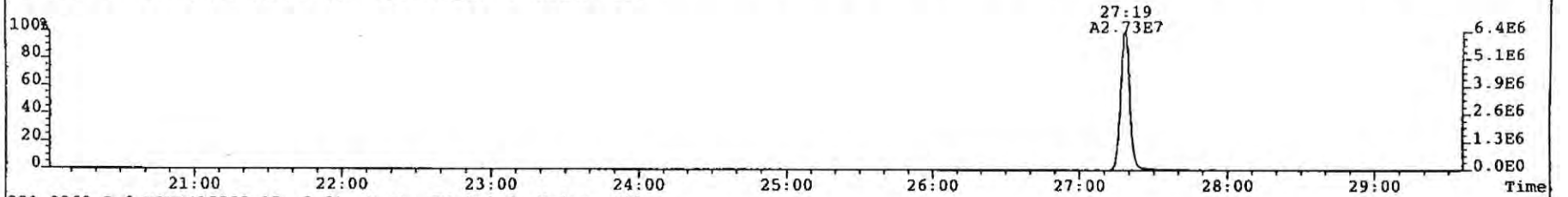
File: 090325P2 Acq: 26-MAR-2009 03:03:54 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: P1193\_6679\_009 PO-AM-28-SS-A-090313 10.02g Vial# 26 File Text: AP DB5  
319.8965 S:6 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 100



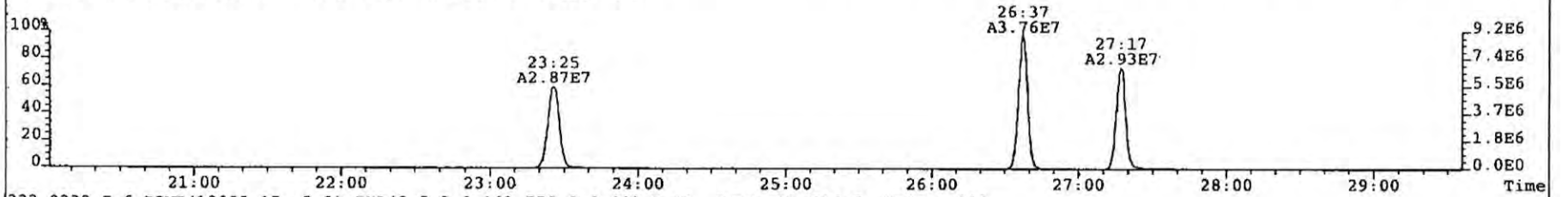
321.8936 S:6 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 219



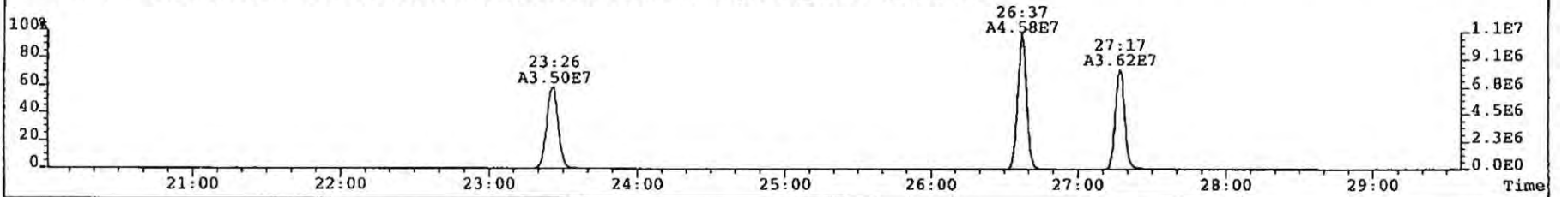
327.8850 S:6 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 106



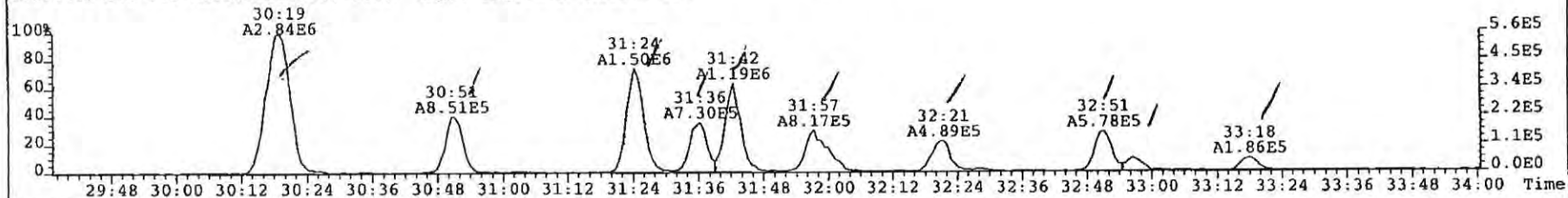
331.9368 S:6 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 619



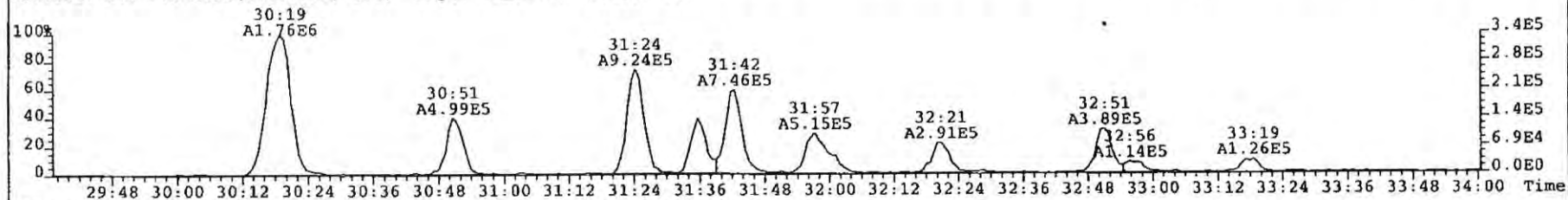
333.9339 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 113



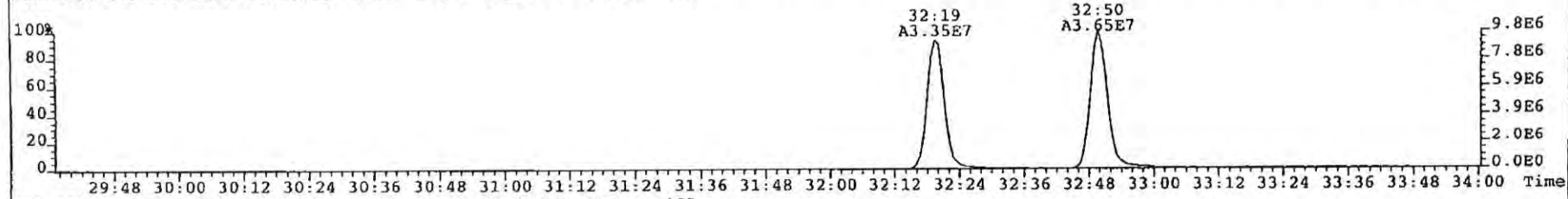
File: 090325P2 Acq: 26-MAR-2009 03:03:54 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: P1193\_6679\_009 PO-AM-28-SS-A-090313 10.02g Vial# 26 File Text: AP DB5  
355.8546 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 554



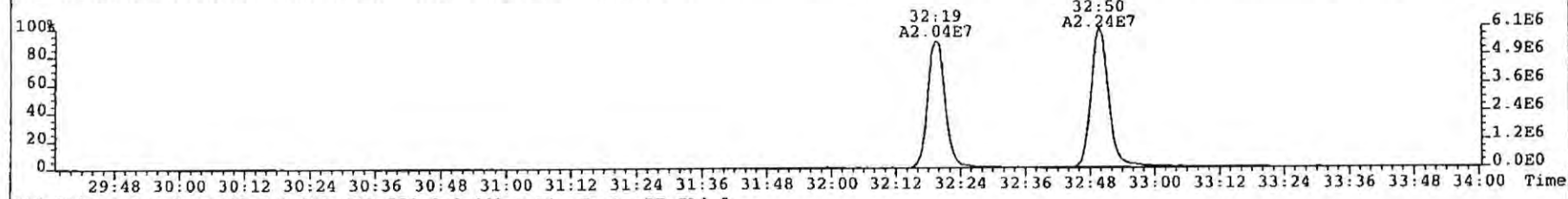
357.8517 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 552



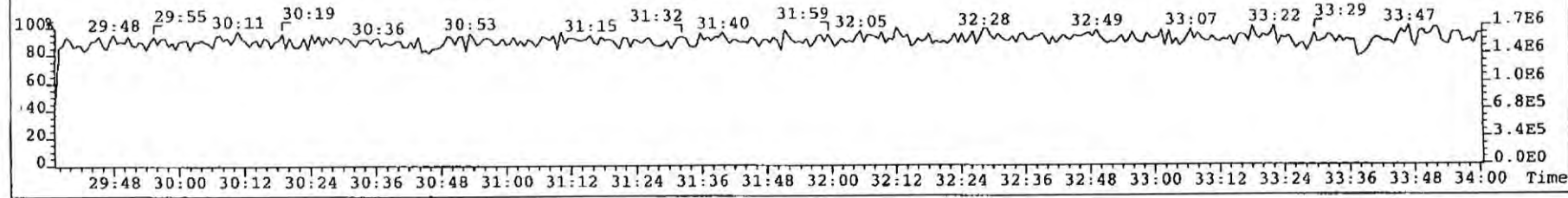
367.8949 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 101



369.8919 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 103

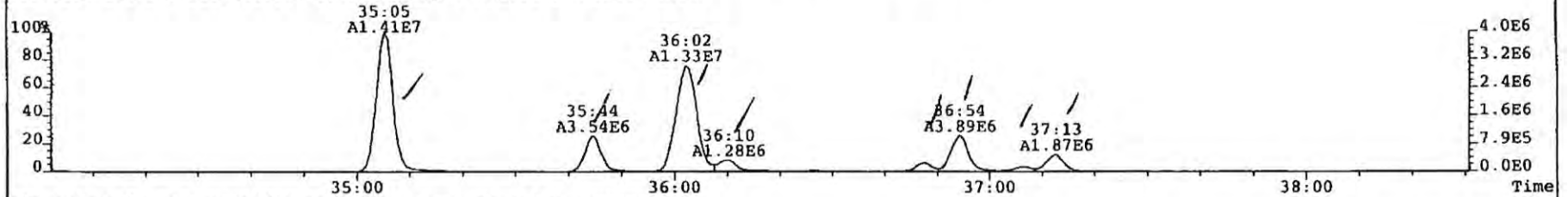


366.9792 S:6 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

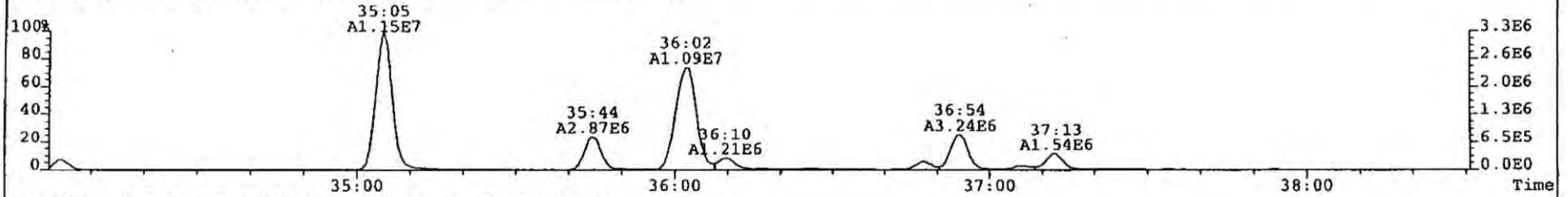




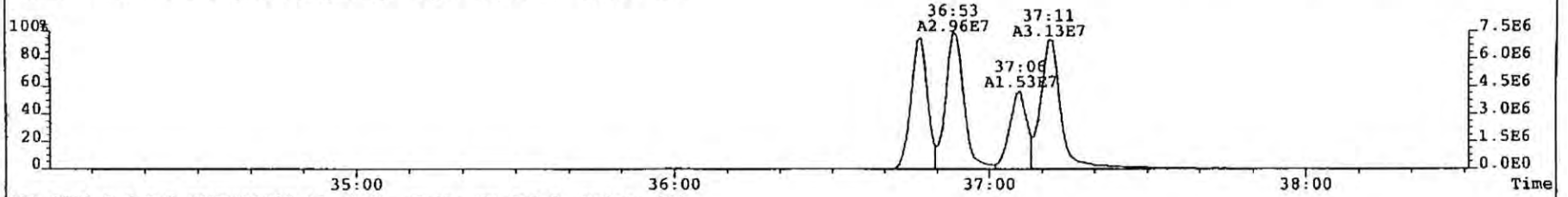
File: 090325P2 Acq: 26-MAR-2009 03:03:54 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: P1193\_6679\_009 PO-AM-28-SS-A-090313 10.02g Vial# 26 File Text: AP DB5  
389.8156 S:6 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1166



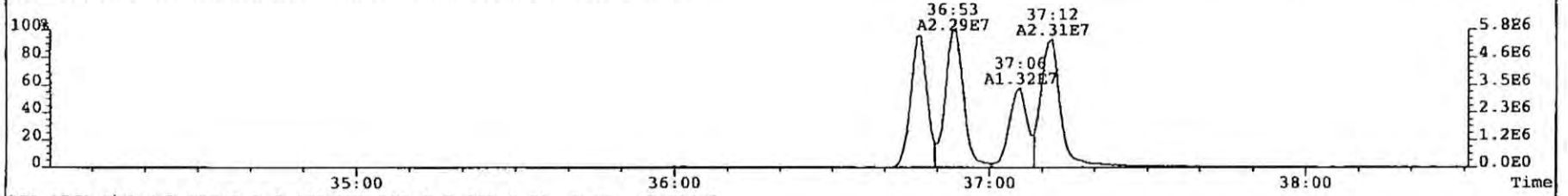
391.8127 S:6 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1327



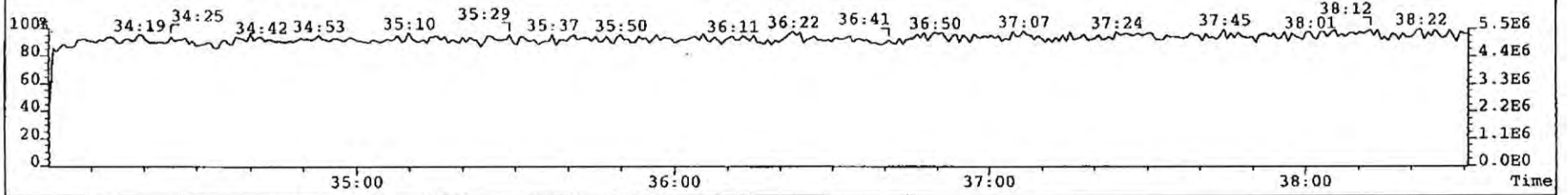
401.8559 S:6 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 114



403.8530 S:6 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 116

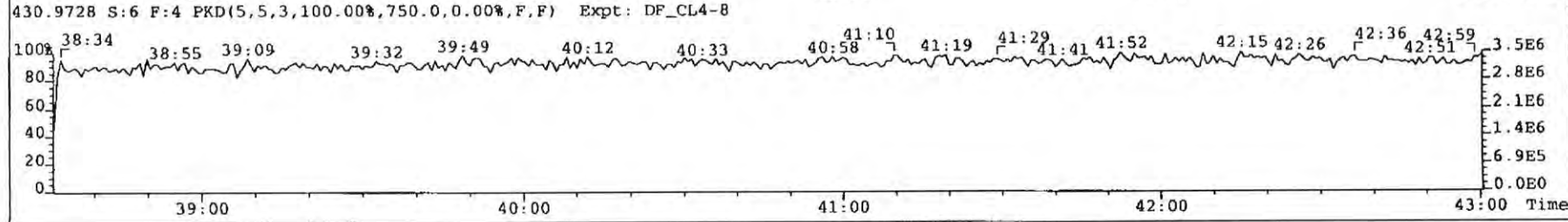
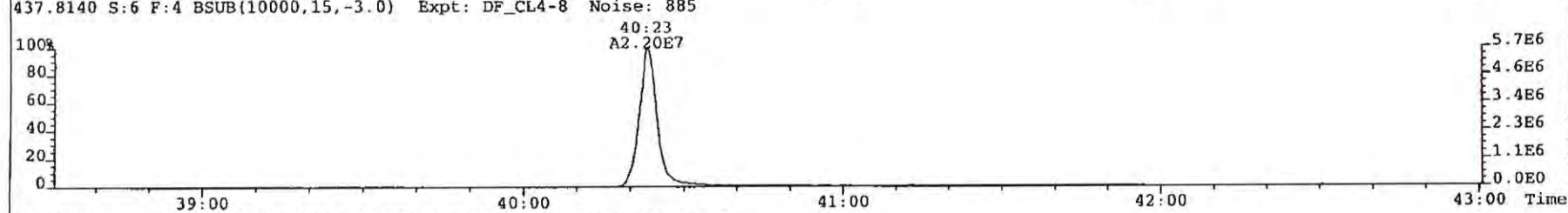
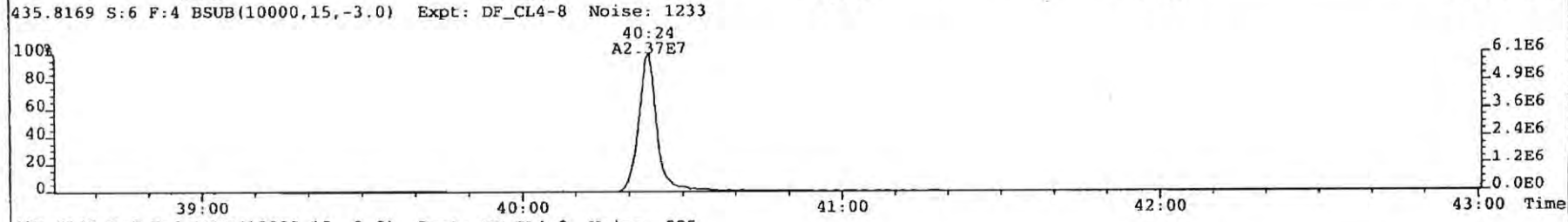
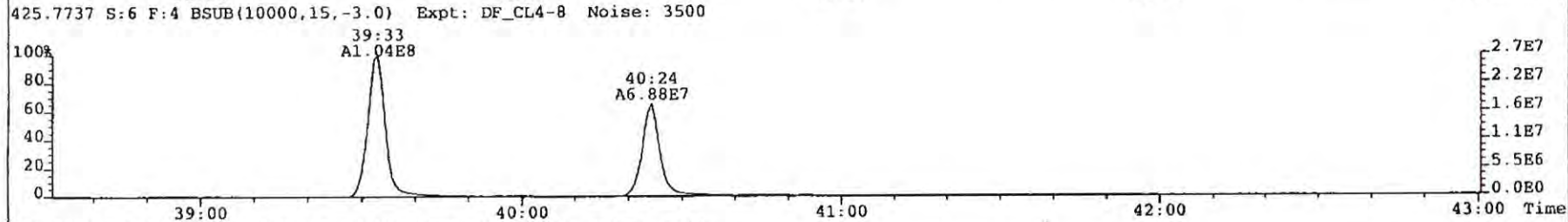
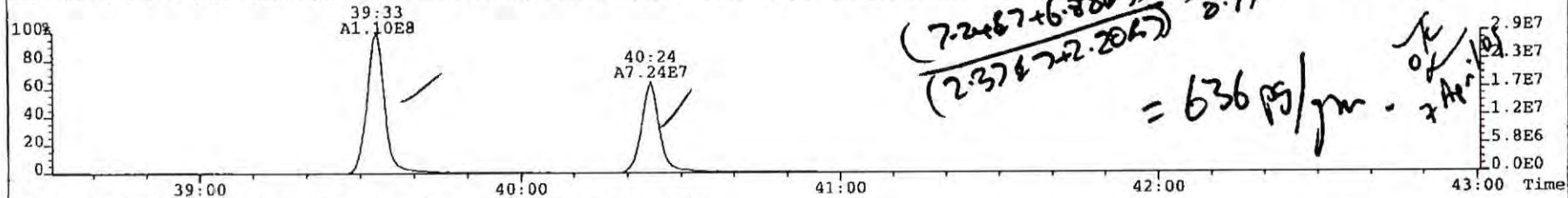


380.9760 S:6 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

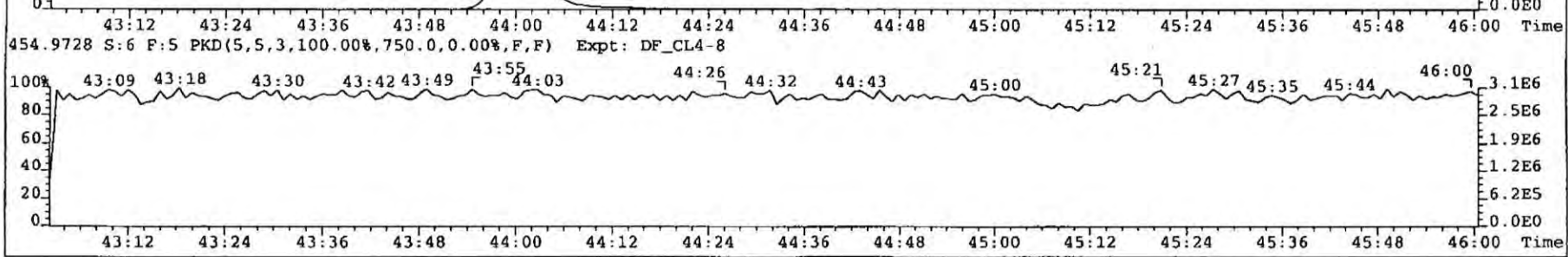
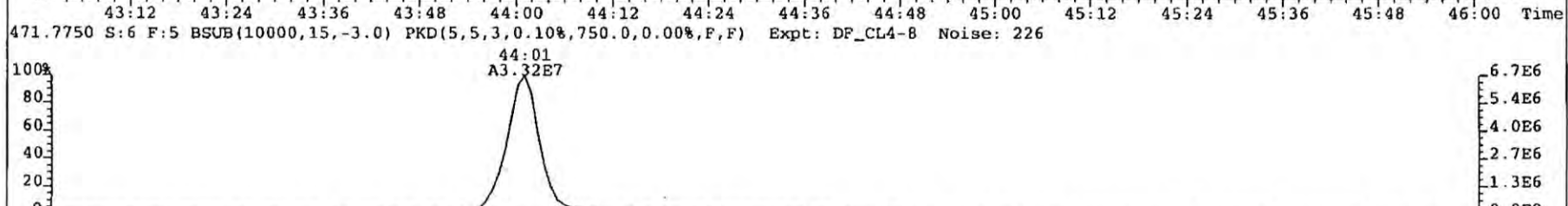
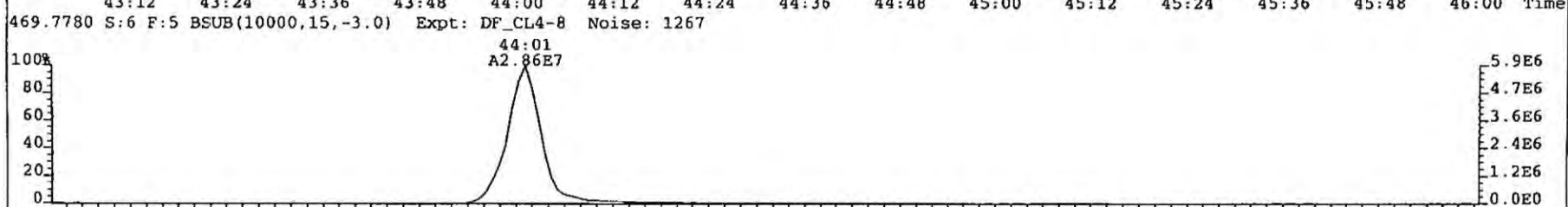
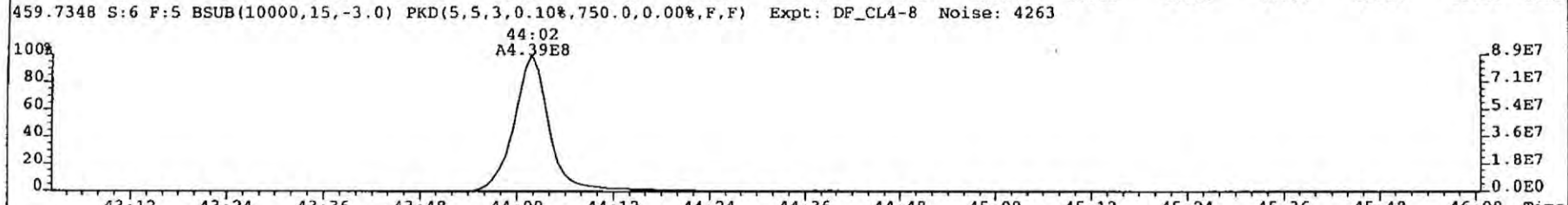
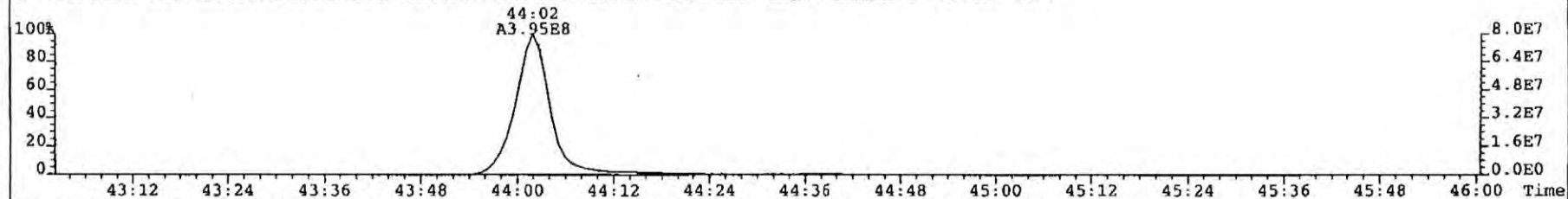


File: 090325P2 Acq: 26-MAR-2009 03:03:54 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample# 6 Text: P1193\_6679\_009 PO-AM-28-SS-A-090313 10.02g Vial# 26 File Text: AP DB5  
 423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 4231

$$\frac{(7.2467 + 6.8867) \times 2000 \mu\text{g} \times \frac{1}{100 \mu\text{g}}}{(2.376 + 2.2067)} = 636 \mu\text{g}/\mu\text{m} \cdot \frac{\mu\text{g}}{\mu\text{m}^2}$$

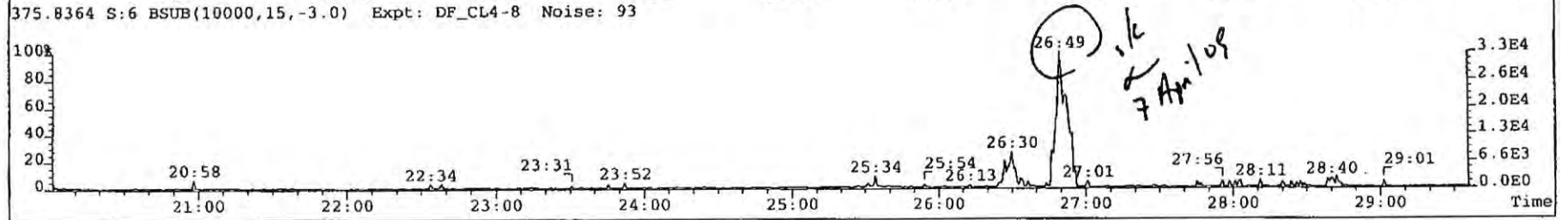
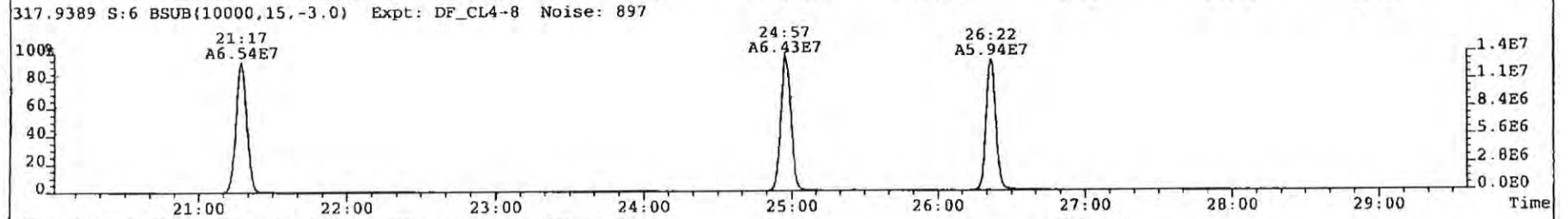
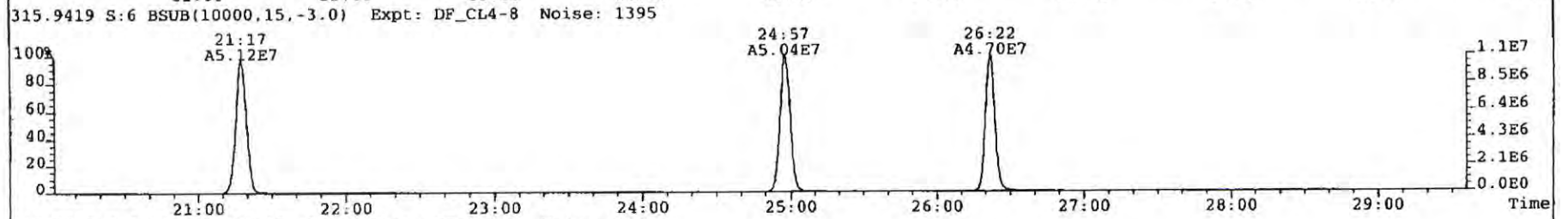
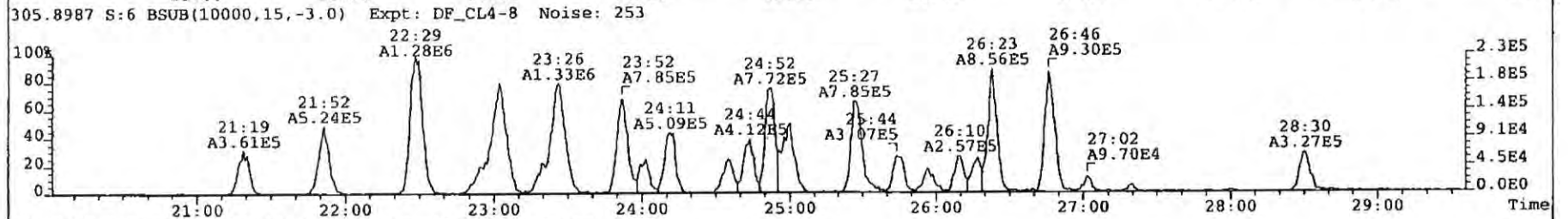
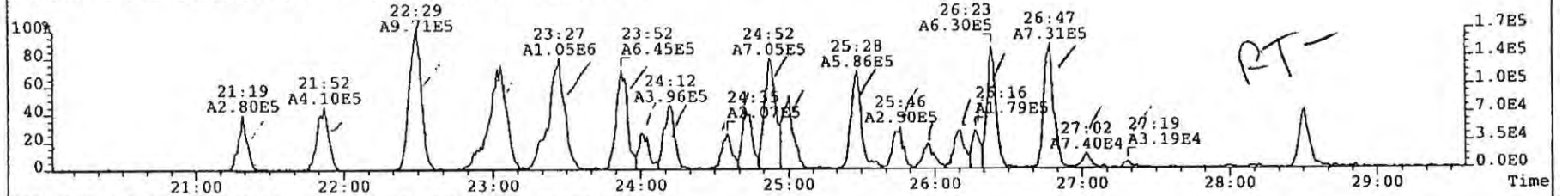


File: 090325P2 Acq: 26-MAR-2009 03:03:54 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: P1193\_6679\_009 PO-AM-28-SS-A-090313 10.02g Vial# 26 File Text: AP DB5  
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 3884

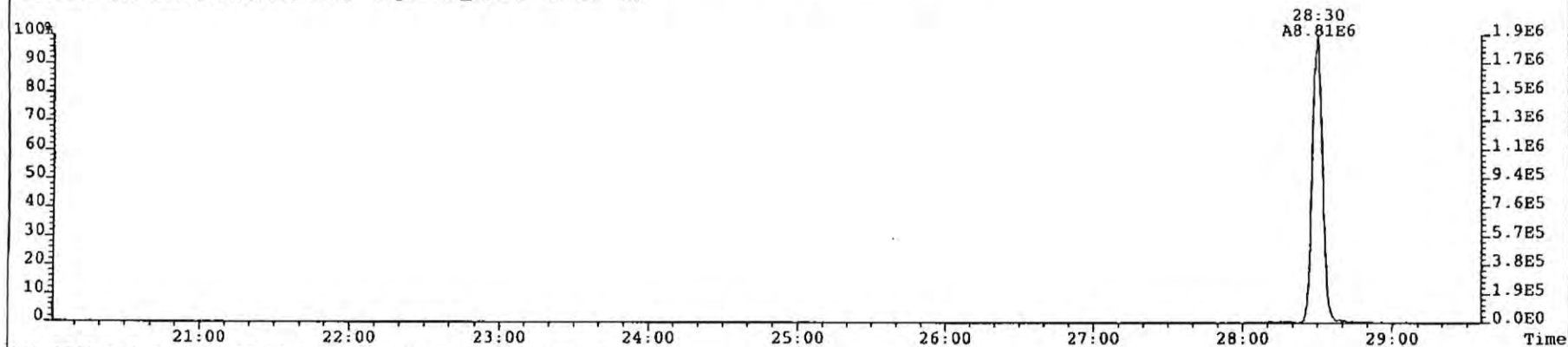




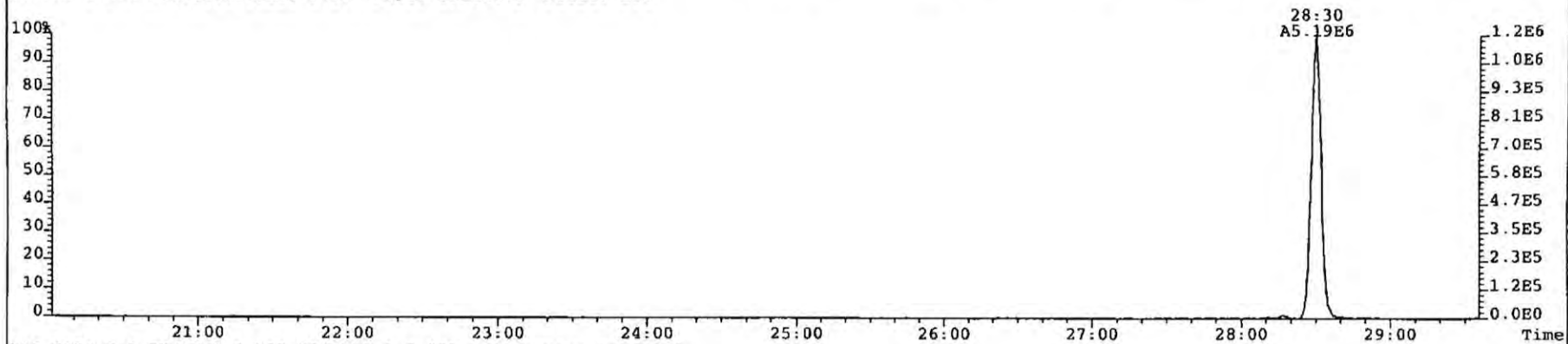
File: 090325P2 Acq: 26-MAR-2009 03:03:54 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: P1193\_6679\_009 PO-AM-28-SS-A-090313 10.02g Vial# 26 File Text: AP DB5  
303.9016 S:6 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 203



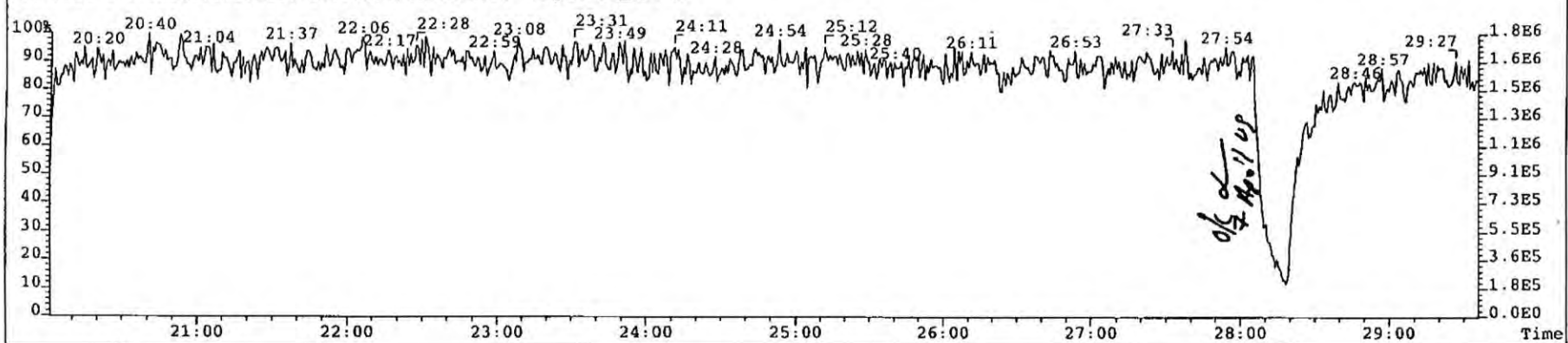
File: 090325P2 Acq: 26-MAR-2009 03:03:54 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: P1193\_6679\_009 PO-AM-28-SS-A-090313 10.02g Vial# 26 File Text: AP DB5  
339.8597 S:6 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 98



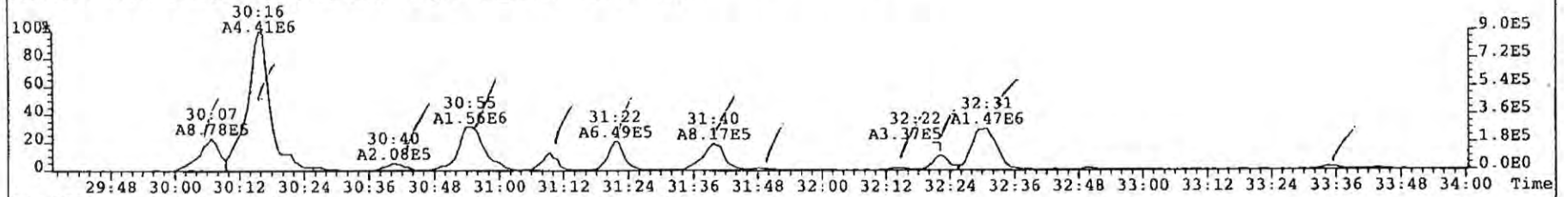
341.8568 S:6 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 103



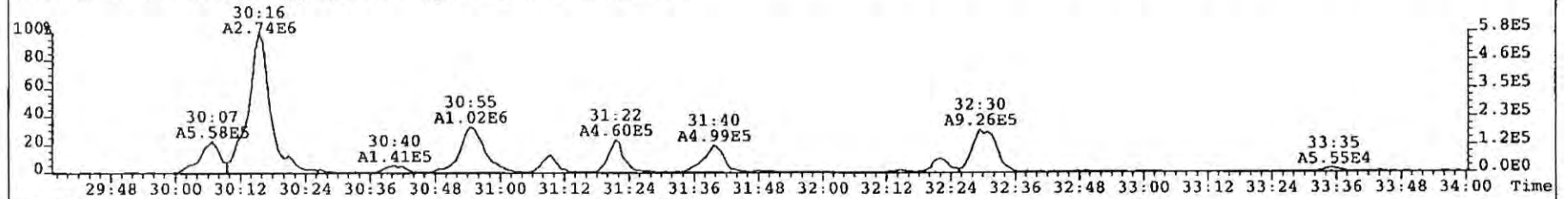
316.9824 S:6 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



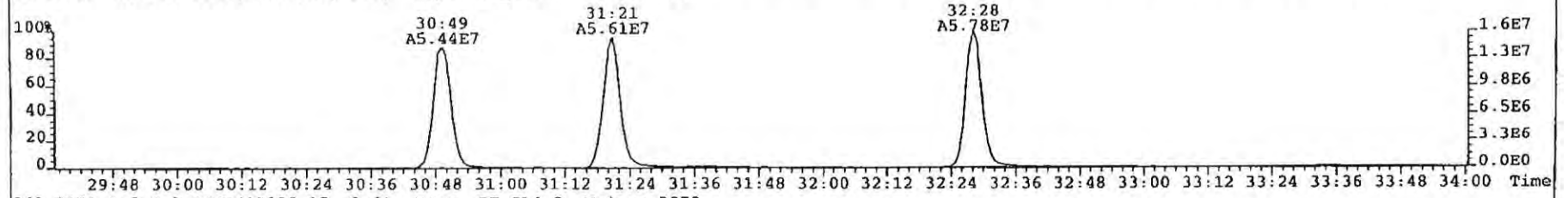
File: 090325P2 Acq: 26-MAR-2009 03:03:54 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: P1193\_6679\_009 PO-AM-28-SS-A-090313 10.02g Vial# 26 File Text: AP DB5  
339.8597 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 601



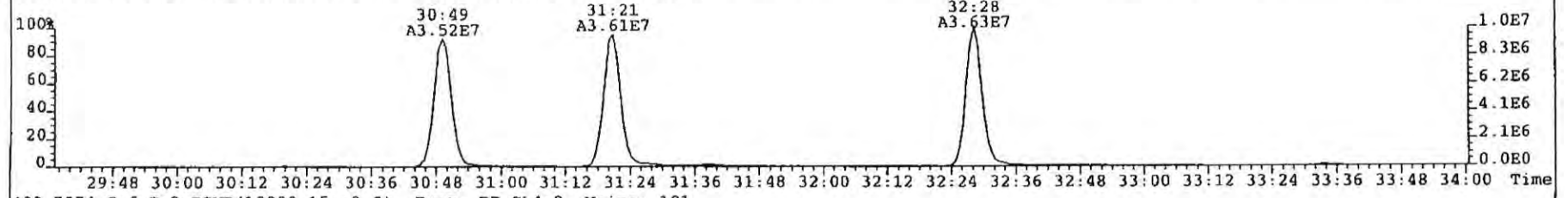
341.8568 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 448



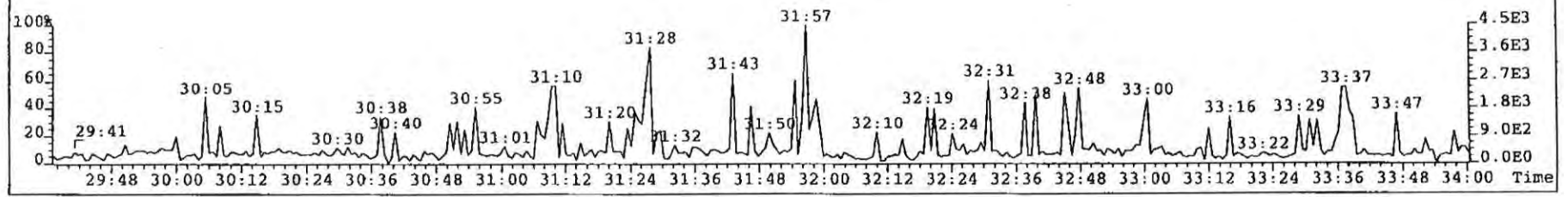
351.9000 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 4232



353.8970 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 3972

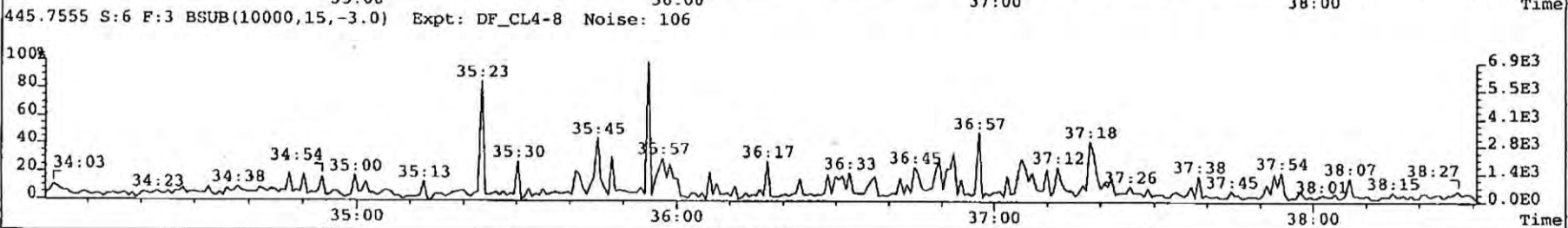
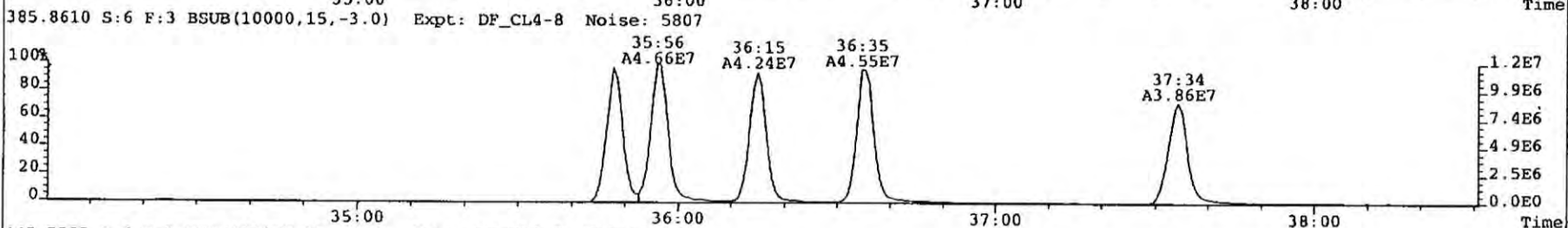
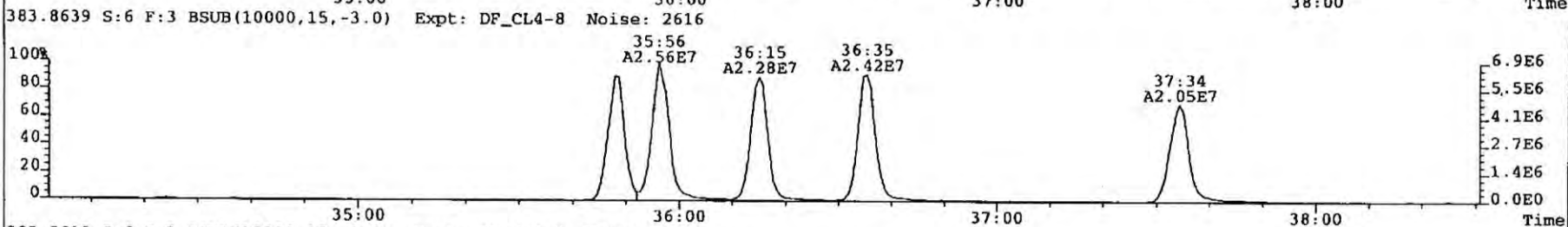
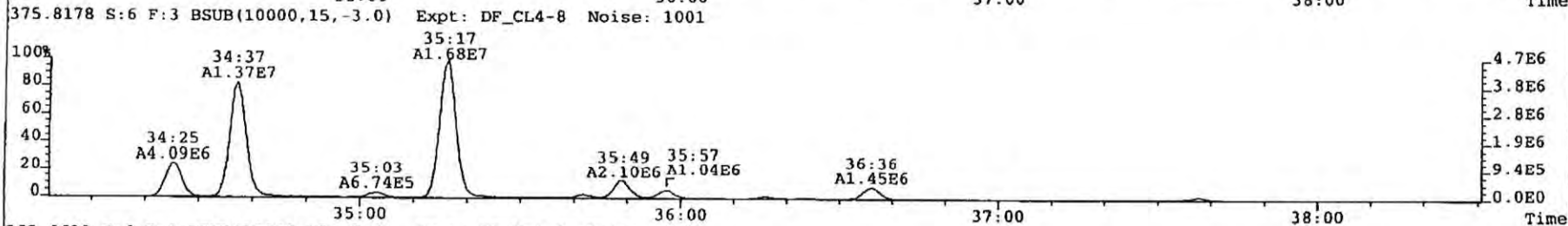
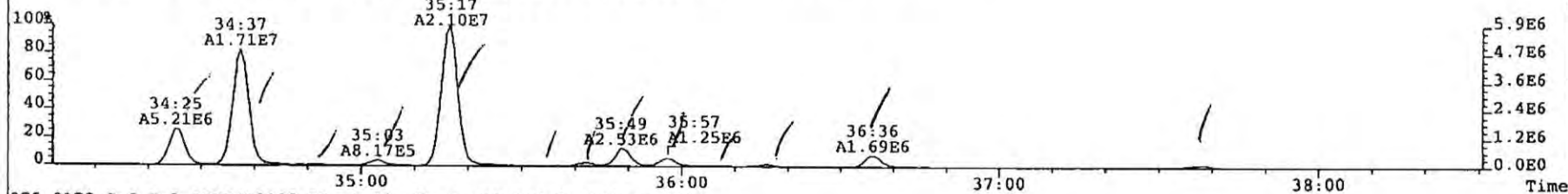


409.7974 S:6 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 101

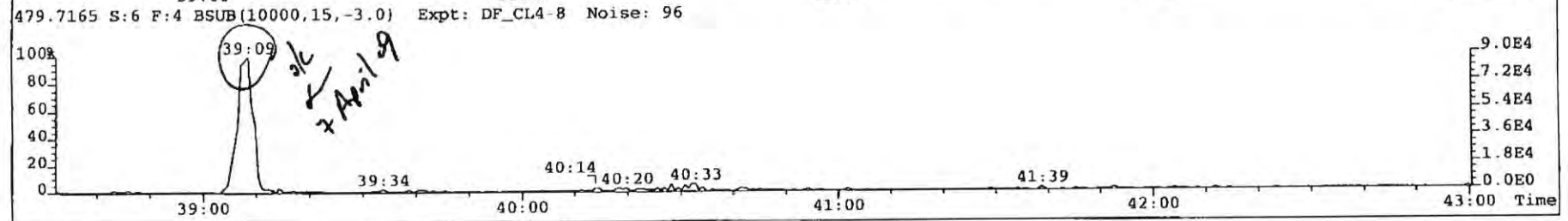
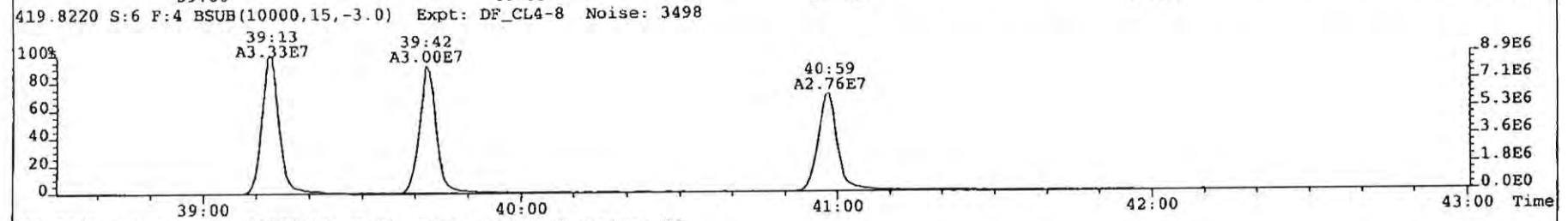
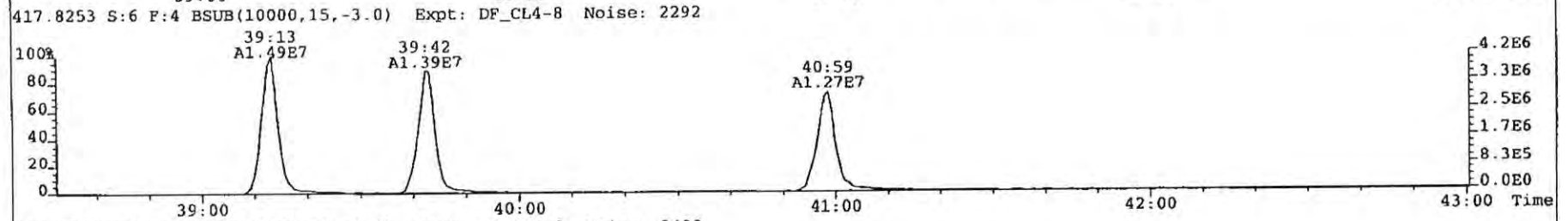
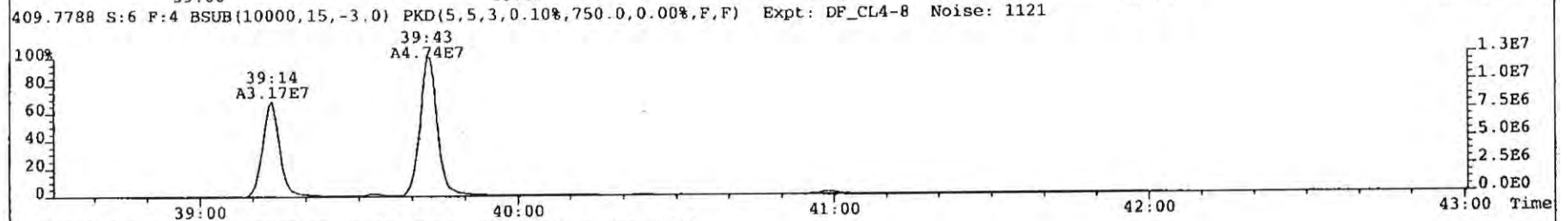
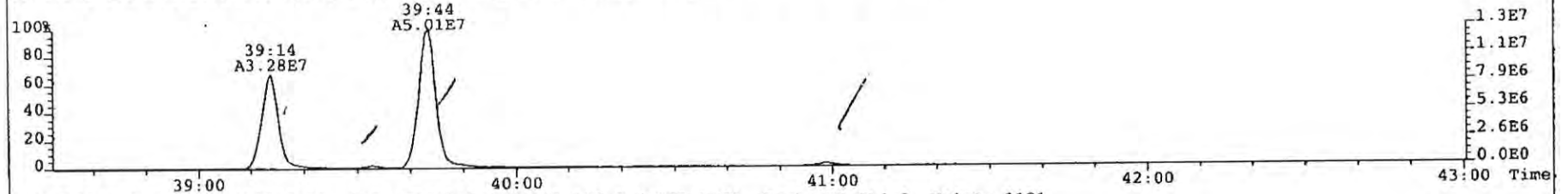




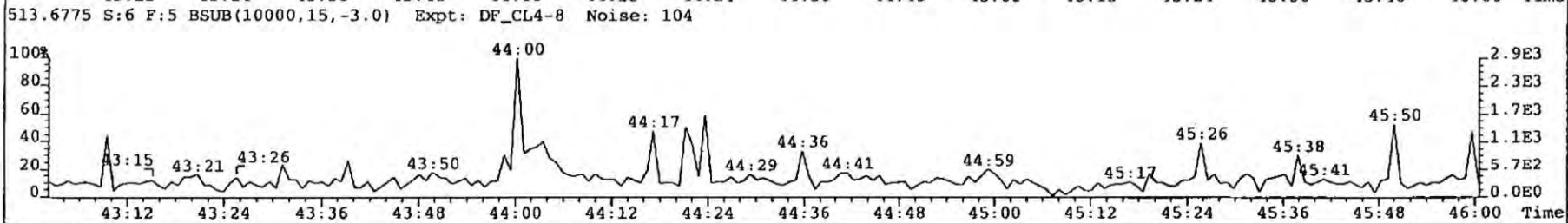
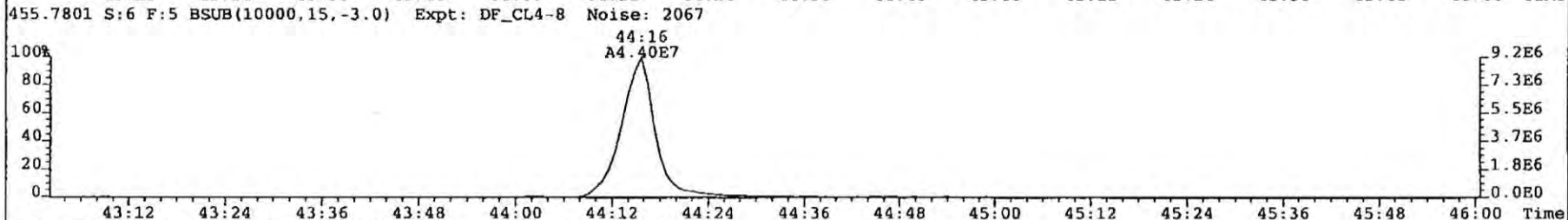
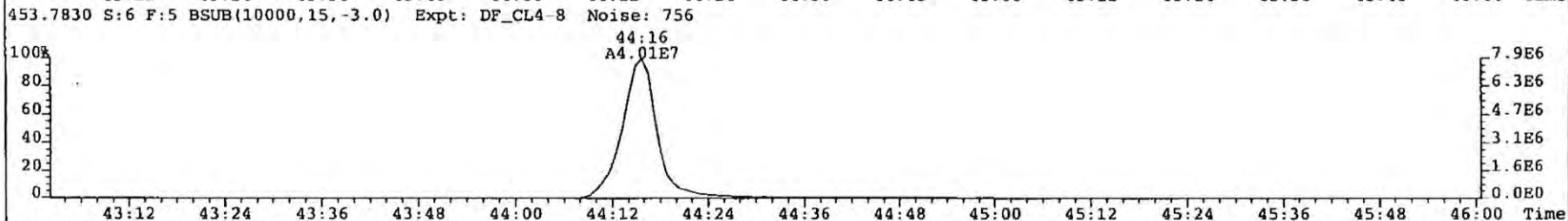
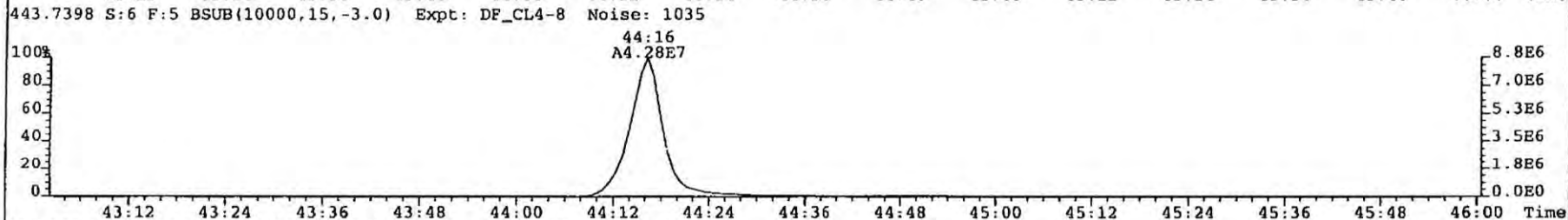
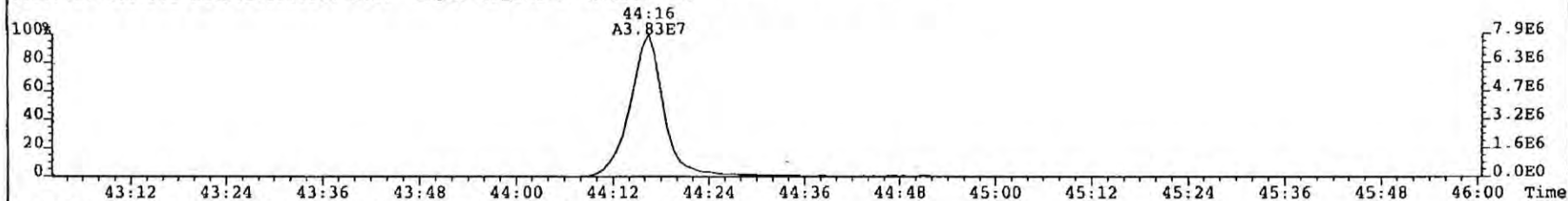
File: 090325P2 Acq: 26-MAR-2009 03:03:54 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: P1193\_6679\_009 PO-AM-28-SS-A-090313 10.02g Vial# 26 File Text: AP DB5  
373.8207 S:6 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 998



File: 090325P2 Acq: 26-MAR-2009 03:03:54 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: P1193\_6679\_009 PO-AM-28-SS-A-090313 10.02g Vial# 26 File Text: AP DB5  
407.7818 S:6 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1132



File: 090325P2 Acq: 26-MAR-2009 03:03:54 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: P1193\_6679\_009 PO-AM-28-SS-A-090313 10.02g Vial# 26 File Text: AP DB5  
441.7428 S:6 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 730






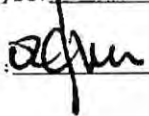
1613/8290 Sample Summary

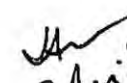
Analytical Perspectives

[Form: DF]

Client ID: B1-C16-SS-A-090313      Filename: 090325P2      S: 7      Vial: 27      Acq: 26-MAR-09 03:54:17  
 Lab ID: P1193\_6679\_010      GC column ID: db-5      Cal: MMI\_DF\_07012007A\_25DEC08wt/Vol: 10.04  
 Sample text: P1193\_6679\_010 B1-C16-SS-A-090313 10.04g      Stds: JS (split adj.): 2000      CS/SS: 800      ES: 2000

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	1.96e+05	0.65 n	27:18	1.08	0.575	942	2.5	0.0545	-
Ax	1,2,3,7,8-PeCDD	8.00e+05	1.65 y	32:51	1.00	3.18	2010	2.5	0.196	-
Ax	1,2,3,4,7,8-HxCDD	1.37e+06	1.20 y	36:47	1.08	5.98	4853	2.5	0.436	-
Ax	1,2,3,6,7,8-HxCDD	6.92e+06	1.27 y	36:54	0.94	30.6	4853	2.5	0.463	-
Ax	1,2,3,7,8,9-HxCDD	3.08e+06	1.34 y	37:14	0.99	12.7	4853	2.5	0.489	-
Ax	1,2,3,4,6,7,8-HpCDD	1.50e+08	1.08 y	40:25	0.97	721	15386	2.5	1.54	-
Ax	OCDD	1.01e+09	0.90 y	44:03	1.06	6590	58539	2.5	8.83	-
Ax2	OCDD-a	6.12e+07	2.54 y	44:02	0.06	6710	4911	2.5	12.4	-
Ax	2,3,7,8-TCDF	1.31e+06	0.80 y	26:22	1.05	2.64	1200	2.5	0.0477	-
Ax	1,2,3,7,8-PeCDF	1.02e+06	1.57 y	31:21	0.98	2.57	2117	2.5	0.125	-
Ax	2,3,4,7,8-PeCDF	2.09e+06	1.57 y	32:30	1.01	5.05	2117	2.5	0.112	-
Ax	1,2,3,4,7,8-HxCDF	4.20e+06	1.26 y	35:49	1.22	12.0	2892	2.5	0.110	-
Ax	1,2,3,6,7,8-HxCDF	2.12e+06	1.33 y	35:57	1.15	5.59	2892	2.5	0.110	-
Ax	2,3,4,6,7,8-HxCDF	2.84e+06	1.20 y	36:36	1.13	8.06	2892	2.5	0.124	-
Ax	1,2,3,7,8,9-HxCDF	7.27e+05	1.35 y	37:38	1.12	2.45	2892	2.5	0.162	-
Ax	1,2,3,4,6,7,8-HpCDF	5.90e+07	1.04 y	39:14	1.37	196	5050	2.5	0.227	-
Ax	1,2,3,4,7,8,9-HpCDF	1.78e+06	1.12 y	40:59	1.32	7.38	5050	2.5	0.319	-
Ax	OCDF	6.80e+07	0.90 y	44:17	0.94	363	13857	2.5	1.90	-
Ax2	OCDF-a	3.92e+06	2.73 y	44:16	0.05	373	1994	2.5	4.87	-
ES	13C-2,3,7,8-TCDD	6.29e+07	0.82 y	27:17	0.99	183	1914	2.5	0.106	91.8
ES	13C-1,2,3,7,8-PeCDD	5.03e+07	1.64 y	32:50	0.83	174	8066	2.5	0.529	87.4
ES	13C-1,2,3,4,7,8-HxCDD	4.22e+07	1.31 y	36:47	1.08	168	14327	2.5	1.21	84.3
ES	13C-1,2,3,6,7,8-HxCDD	4.77e+07	1.22 y	36:53	1.23	168	14327	2.5	1.07	84.1
ES	13C-1,2,3,7,8,9-HxCDD	4.85e+07	1.34 y	37:12	1.21	172	14327	2.5	1.08	86.5
ES	13C-1,2,3,4,6,7,8-HpCDD	4.26e+07	1.06 y	40:24	0.98	187	9183	2.5	0.856	93.6
ES	13C-OCDD	5.74e+07	0.86 y	44:02	0.66	375	10186	2.5	1.42	94.1
ES	13C-2,3,7,8-TCDF	9.41e+07	0.81 y	26:21	0.96	215	3127	2.5	0.152	108
ES	13C-1,2,3,7,8-PeCDF	8.06e+07	1.56 y	31:21	0.85	206	10747	2.5	0.587	103
ES	13C-2,3,4,7,8-PeCDF	8.14e+07	1.57 y	32:28	0.88	201	10747	2.5	0.567	101
ES	13C-1,2,3,4,7,8-HxCDF	5.73e+07	0.53 y	35:48	1.47	167	30782	2.5	1.91	83.9
ES	13C-1,2,3,6,7,8-HxCDF	6.57e+07	0.53 y	35:57	1.78	159	30782	2.5	1.59	79.9
ES	13C-2,3,4,6,7,8-HxCDF	6.21e+07	0.53 y	36:36	1.61	166	30782	2.5	1.75	83.4
ES	13C-1,2,3,7,8,9-HxCDF	5.29e+07	0.53 y	37:35	1.40	163	30782	2.5	2.01	81.6
ES	13C-1,2,3,4,6,7,8-HpCDF	4.40e+07	0.47 y	39:13	1.16	163	14751	2.5	1.17	81.9
ES	13C-1,2,3,4,7,8,9-HpCDF	3.64e+07	0.45 y	40:58	0.92	170	14751	2.5	1.47	85.3
ES	13C-OCDF	7.94e+07	0.89 y	44:15	1.04	329	16161	2.5	1.43	82.6
CS	37Cl-2,3,7,8-TCDD	2.60e+07		27:18	0.99	76.0			0.699	95.3
CS	13C-1,2,3,4,7-PeCDD	4.74e+07	1.65 y	32:20	0.77	178	8066	2.5	0.574	89.3
CS	13C-1,2,3,4,6-PeCDF	7.84e+07	1.54 y	30:48	0.79	215	10747	2.5	0.631	108
CS	13C-1,2,3,4,6,9-HxCDF	5.93e+07	0.54 y	36:15	1.41	181	30782	2.5	2.00	90.7
CS	13C-1,2,3,4,6,8,9-HpCDF	3.97e+07	0.46 y	39:43	0.91	188	14751	2.5	1.49	94.4
NA	n/a	*	* n	NotF*	Div0	*	1783	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	6.89e+07	0.82 y	26:37	-	19.6	1914	2.5	-	-
JS	13C-1,2,3,4-TCDF	9.14e+07	0.80 y	24:57	-	16.4	3127	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	2.31e+07	1.19 y	37:05	-	10.6	2118	2.5	-	-

Analyst:   
 Date: 

  
 7 April 09

quan on MM1 2-APR-2009 10:38 checkcode:

SS	37Cl-2,3,7,8-TCDD	2.60e+07		27:18	1.00	82.3		0.789	103
SS	13C-1,2,3,4,7-PeCDD	4.74e+07	1.65 y	32:20	0.93	202	8066 2.5	0.847	102
SS	13C-1,2,3,4,6-PeCDF	7.84e+07	1.54 y	30:48	0.94	207	10747 2.5	0.668	104
SS	13C-1,2,3,4,6,9-HxCDF	5.93e+07	0.54 y	36:15	0.80	224	30782 2.5	1.69	113
SS	13C-1,2,3,4,6,8,9-HpCDF	3.97e+07	0.46 y	39:43	0.79	228	14751 2.5	1.15	114
SBS	2,4,6,8-TCDF	2.00e+06	0.80 y	22:27	1.05	4.04	1200 2.5	0.0477	-
Ay	1,3,6,8-TCDD	3.00e+06	0.80 y	23:27	1.08	8.78	942 2.5	0.0545	-
Ay	1,2,3,9-TCDD	5.78e+04	0.55 y	27:09	1.08	0.169	942 2.5	0.0545	-
Ay	1,2,8,9-TCDD	4.67e+04	0.83 y	28:19	1.08	0.137	942 2.5	0.0545	-
Ay	1,2,4,7,9-PeCDD	3.88e+06	1.64 y	30:17	1.00	15.4	2010 2.5	0.196	-
Ay	1,2,3,8,9-PeCDD	2.56e+05	1.42 y	33:18	1.00	1.02	2010 2.5	0.196	-
Ay	1,2,4,6,7,9-HxCDD	2.76e+07	1.20 y	35:05	1.00	119	4853 2.5	0.462	-
Ay	1,2,3,4,6,7,9-HpCDD	3.39e+08	1.07 y	39:34	0.97	1630	15386 2.5	1.54	-
Ay	1,3,6,8-TCDF	5.43e+05	0.74 y	21:15	1.05	1.10	1200 2.5	0.0477	-
Ay	2,3,4,8-TCDF	3.12e+05	0.66 y	26:16	1.05	0.632	1200 2.5	0.0477	-
Ay	1,2,8,9-TCDF	*	* n	NotF*	1.05	*	1200 2.5	0.0477	-
Ay	1,3,4,6,8-PeCDF	1.24e+07	1.78 y	28:29	1.05	25.0	345 2.5	0.0137	-
Ay	1,2,3,8,9-PeCDF	1.25e+05	1.75 y	33:35	1.00	0.309	2117 2.5	0.118	-
Ay	1,2,3,4,6,8-HxCDF	8.39e+06	1.25 y	34:26	1.15	24.4	2892 2.5	0.125	-
Tot	Total Tetra-Dioxins	8.38e+06	0.80 y	23:27	1.08	24.5	942 2.5	0.0545	-
Tot	Total Penta-Dioxins	1.29e+07	1.64 y	30:17	1.00	51.3	2010 2.5	0.196	-
Tot	Total Hexa-Dioxins	7.47e+07	1.20 y	35:05	1.00	322	4853 2.5	0.462	-
Tot	Total Hepta-Dioxins	4.89e+08	1.07 y	39:34	0.97	2350	15386 2.5	1.54	-
Tot	Total Tetra-Furans	1.87e+07	0.74 y	21:15	1.05	37.7	1200 2.5	0.0477	-
Tot	Total Penta-Furans	1.55e+07	1.68 y	30:04	1.00	38.0	2117 2.5	0.118	-
Tot	Total Hexa-Furans	8.59e+07	1.25 y	34:26	1.15	249	2892 2.5	0.125	-
Tot	Total Hepta-Furans	1.54e+08	1.04 y	39:14	1.35	547	5050 2.5	0.268	-
Tot	TCDD EMPC	8.89e+06	0.80 y	23:27	1.08	26.0	942 2.5	0.0545	-
Tot	PeCDD EMPC	1.29e+07	1.64 y	30:17	1.00	51.3	2010 2.5	0.196	-
Tot	HxCDD EMPC	7.47e+07	1.20 y	35:05	1.00	322	4853 2.5	0.462	-
Tot	HpCDD EMPC	4.89e+08	1.07 y	39:34	0.97	2350	15386 2.5	1.54	-
Tot	TCDF EMPC	1.87e+07	0.74 y	21:15	1.05	37.7	1200 2.5	0.0477	-
Tot	PeCDF EMPC	1.55e+07	1.68 y	30:04	1.00	38.2	2117 2.5	0.118	-
Tot	HxCDF EMPC	8.63e+07	1.25 y	34:26	1.15	250	2892 2.5	0.125	-
Tot	HpCDF EMPC	1.54e+08	1.04 y	39:14	1.35	547	5050 2.5	0.268	-
AS	13C-1,3,6,8-TCDD	6.33e+07	0.82 y	23:25	1.09	168	1914 2.5	0.0964	84.4
AS	13C-1,3,6,8-TCDF	1.05e+08	0.79 y	21:14	1.09	211	3127 2.5	0.134	106
DPE	HxCDF	*		NotF*	-	*	-	-	-
DPE	HpCDF	*		NotF*	-	*	-	-	-
DPE	OCDF	*		NotF*	-	*	-	-	-
DPE	NCDF	*		NotF*	-	*	-	-	-
DPE	DCDF	*		NotF*	-	*	-	-	-
LMC	Fn1 check mass	*		NotF*	-	*	-	-	-
LMC	Fn2 check mass	*		NotF*	-	*	-	-	-
LMC	Fn3 check mass	*		NotF*	-	*	-	-	-
LMC	Fn4 check mass	*		NotF*	-	*	-	-	-
LMC	Fn5 check mass	*		NotF*	-	*	-	-	-

me

ok 2 Apr 09

Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDD EMPC Function: 1 Run #: 14 Checkcode: 5953  
 File Name: 090325P2 Sample #: 7 Sample text: P1193\_6679\_010 B1-C16-SS-A-090313 10.04g

Acquired: 26-MAR-09 03:54:17 Processed: 26-MAR-09 08:42:21

Total Conc.: 26.011 Unnamed Conc.: 16.351 Homolog count: 17

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name		
23:22	1.332e+06	n	1.669e+06	n	0.80	y	3.001e+06	3.001e+06	3.56e+02	y	8.78	1,3,6,8-TCDD
23:50	8.290e+05	n	1.026e+06	n	0.81	y	1.855e+06	1.855e+06	2.10e+02	y	5.43	
24:17	9.715e+04	n	1.088e+05	n	0.89	n	2.059e+05	1.925e+05	2.17e+01	y	0.563	
25:07	1.217e+05	n	1.491e+05	n	0.82	y	2.708e+05	2.708e+05	3.41e+01	y	0.792	
25:22	1.970e+05	y	2.526e+05	y	0.78	y	4.496e+05	4.496e+05	6.06e+01	y	1.32	
25:34	2.377e+05	n	3.032e+05	y	0.78	y	5.409e+05	5.409e+05	6.97e+01	y	1.58	
25:46	8.579e+04	y	1.038e+05	y	0.83	y	1.896e+05	1.896e+05	2.22e+01	y	0.555	
26:02	2.851e+04	n	4.411e+04	y	0.65	n	7.263e+04	6.554e+04	1.17e+01	y	0.192	
26:13	9.396e+04	n	1.092e+05	n	0.86	y	2.032e+05	2.032e+05	2.95e+01	y	0.594	
26:38	2.211e+05	y	2.575e+05	y	0.86	y	4.786e+05	4.786e+05	6.03e+01	y	1.40	
26:45	2.171e+04	y	3.267e+04	y	0.66	y	5.439e+04	5.439e+04	9.53e+00	y	0.159	
27:01	4.777e+05	y	5.983e+05	n	0.80	y	1.076e+06	1.076e+06	1.29e+02	y	3.15	
27:09	2.514e+04	y	4.565e+04	y	0.55	n	7.079e+04	5.778e+04	1.05e+01	y	0.169	1,2,3,9-TCDD
27:18	8.546e+04	n	1.319e+05	n	0.65	n	2.173e+05	1.965e+05	3.50e+01	y	0.575	2,3,7,8-TCDD
27:38	6.871e+04	n	8.774e+04	n	0.78	y	1.565e+05	1.565e+05	2.40e+01	y	0.458	
27:48	2.505e+04	n	3.197e+04	n	0.78	y	5.702e+04	5.702e+04	9.48e+00	y	0.167	
28:19	2.119e+04	n	2.549e+04	n	0.83	y	4.667e+04	4.667e+04	6.79e+00	y	0.137	1,2,8,9-TCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDD EMPC Function: 2 Run #: 14 Checkcode: 5953  
 File Name: 090325P2 Sample #: 7 Sample text: P1193\_6679\_010 B1-C16-SS-A-090313 10.04g

Acquired: 26-MAR-09 03:54:17 Processed: 26-MAR-09 08:42:21

Total Conc.: 51.313 Unnamed Conc.: 31.742 Homolog count: 10

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name		
30:17	2.410e+06	n	1.466e+06	n	1.64	y	3.875e+06	3.875e+06	1.44e+02	y	15.4	1,2,4,7,9-PeCDD
30:50	7.236e+05	n	4.638e+05	n	1.56	y	1.187e+06	1.187e+06	6.33e+01	y	4.71	
31:24	1.294e+06	n	8.245e+05	n	1.57	y	2.119e+06	2.119e+06	1.11e+02	y	8.41	
31:35	6.469e+05	n	3.656e+05	n	1.77	y	1.013e+06	1.013e+06	5.63e+01	y	4.02	
31:42	1.043e+06	n	6.188e+05	n	1.68	y	1.661e+06	1.661e+06	8.17e+01	y	6.59	
31:58	6.875e+05	n	4.238e+05	n	1.62	y	1.111e+06	1.111e+06	4.27e+01	y	4.41	
32:21	4.107e+05	n	2.630e+05	n	1.56	y	6.738e+05	6.738e+05	4.09e+01	y	2.67	
32:51	4.987e+05	n	3.017e+05	n	1.65	y	8.003e+05	8.003e+05	4.15e+01	y	3.18	1,2,3,7,8-PeCDD
32:57	1.345e+05	n	9.922e+04	n	1.36	y	2.338e+05	2.338e+05	1.33e+01	y	0.928	
33:18	1.504e+05	n	1.059e+05	n	1.42	y	2.564e+05	2.564e+05	1.43e+01	y	1.02	1,2,3,8,9-PeCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDD EMPC Function: 3 Run #: 14 Checkcode: 5953  
 File Name: 090325P2 Sample #: 7 Sample text: P1193\_6679\_010 B1-C16-SS-A-090313 10.04g

Acquired: 26-MAR-09 03:54:17 Processed: 26-MAR-09 08:42:21

Total Conc.: 321.66 Unnamed Conc.: 153.795 Homolog count: 8



RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
35:05	1.506e+07	n		1.250e+07	n		1.20 y	2.756e+07	2.756e+07	7.21e+02	y	119 1,2,4,6,7,9-HxCDD
35:45	3.574e+06	n		2.875e+06	n		1.24 y	6.449e+06	6.449e+06	1.67e+02	y	27.7
36:02	1.341e+07	n		1.091e+07	n		1.23 y	2.432e+07	2.432e+07	4.95e+02	y	105
36:10	2.132e+06	n		1.720e+06	n		1.24 y	3.852e+06	3.852e+06	8.66e+01	y	16.6
36:47	7.482e+05	n		6.236e+05	n		1.20 y	1.372e+06	1.372e+06	3.86e+01	y	5.98 1,2,3,4,7,8-HxCDD
36:54	3.867e+06	n		3.056e+06	n		1.27 y	6.922e+06	6.922e+06	1.65e+02	y	30.6 1,2,3,6,7,8-HxCDD
37:06	6.263e+05	n		5.093e+05	n		1.23 y	1.136e+06	1.136e+06	2.47e+01	y	4.88
37:14	1.763e+06	n		1.313e+06	n		1.34 y	3.075e+06	3.075e+06	6.49e+01	y	12.7 1,2,3,7,8,9-HxCDD
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: HpCDD EMPC Function: 4 Run #: 14 Checkcode: 5953  
 File Name: 090325P2 Sample #: 7 Sample text: P1193\_6679\_010 B1-C16-SS-A-090313 10.04g

Acquired: 26-MAR-09 03:54:17 Processed: 26-MAR-09 08:42:21

Total Conc.: 2349.8 Unnamed Conc.: \* Homolog count: 2 ✓

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
39:34	1.749e+08	n		1.642e+08	n		1.07 y	3.390e+08	3.390e+08	2.91e+03	y	1630 1,2,3,4,6,7,9-HpCDD
40:25	7.806e+07	n		7.206e+07	n		1.08 y	1.501e+08	1.501e+08	1.17e+03	y	721 1,2,3,4,6,7,8-HpCDD
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: TCDF EMPC Function: 1 Run #: 14 Checkcode: 5953  
 File Name: 090325P2 Sample #: 7 Sample text: P1193\_6679\_010 B1-C16-SS-A-090313 10.04g

Acquired: 26-MAR-09 03:54:17 Processed: 26-MAR-09 08:42:21

Total Conc.: 37.745 Unnamed Conc.: 29.336 Homolog count: 21 ✓

RT	m1	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
21:15	2.299e+05	n		3.127e+05	n		0.74 y	5.426e+05	5.426e+05	4.93e+01	y	1.10 1,3,6,8-TCDF
21:49	3.457e+05	n		4.771e+05	n		0.72 y	8.229e+05	8.229e+05	7.67e+01	y	1.66
22:27	8.851e+05	n		1.110e+06	n		0.80 y	1.995e+06	1.995e+06	1.65e+02	y	4.04 2,4,6,8-TCDF
23:00	8.601e+05	n		1.171e+06	n		0.73 y	2.031e+06	2.031e+06	1.18e+02	y	4.11
23:25	9.117e+05	n		1.190e+06	n		0.77 y	2.102e+06	2.102e+06	1.35e+02	y	4.25
23:53	5.676e+05	y		6.786e+05	y		0.84 y	1.246e+06	1.246e+06	1.14e+02	y	2.52
24:00	2.061e+05	y		2.424e+05	y		0.85 y	4.485e+05	4.485e+05	4.20e+01	y	0.907
24:10	3.036e+05	y		4.359e+05	y		0.70 y	7.395e+05	7.395e+05	7.36e+01	y	1.50
24:33	1.571e+05	y		2.020e+05	y		0.78 y	3.591e+05	3.591e+05	2.96e+01	y	0.726
24:42	2.578e+05	y		3.551e+05	y		0.73 y	6.129e+05	6.129e+05	6.85e+01	y	1.24
24:51	5.669e+05	y		7.292e+05	y		0.78 y	1.296e+06	1.296e+06	1.17e+02	y	2.62
24:59	4.063e+05	y		5.125e+05	y		0.79 y	9.188e+05	9.188e+05	7.96e+01	y	1.86
25:27	5.474e+05	y		6.823e+05	n		0.80 y	1.230e+06	1.230e+06	1.18e+02	y	2.49
25:44	2.128e+05	n		2.897e+05	n		0.73 y	5.025e+05	5.025e+05	5.01e+01	y	1.02
25:57	1.279e+05	y		1.669e+05	n		0.77 y	2.948e+05	2.948e+05	2.61e+01	y	0.596
26:09	1.716e+05	y		2.054e+05	y		0.84 y	3.770e+05	3.770e+05	4.29e+01	y	0.763
26:16	1.241e+05	y		1.882e+05	y		0.66 y	3.123e+05	3.123e+05	4.29e+01	y	0.632 2,3,4,8-TCDF
26:22	5.813e+05	y		7.253e+05	y		0.80 y	1.307e+06	1.307e+06	1.40e+02	y	2.64 2,3,7,8-TCDF
26:46	5.837e+05	n		7.234e+05	n		0.81 y	1.307e+06	1.307e+06	1.22e+02	y	2.64
27:01	6.219e+04	y		9.444e+04	y		0.66 y	1.566e+05	1.566e+05	1.75e+01	y	0.317
27:18	2.253e+04	n		3.328e+04	y		0.68 y	5.581e+04	5.581e+04	7.58e+00	y	0.113
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: PeCDF EMPC Function: 2 Run #: 14 Checkcode: 5953  
 File Name: 090325P2 Sample #: 7 Sample text: P1193\_6679\_010 B1-C16-SS-A-090313 10.04g

Acquired: 26-MAR-09 03:54:17 Processed: 26-MAR-09 08:42:21

Total Conc.: 38.184 Unnamed Conc.: 30.253 Homolog count: 12 ✓

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
30:04	7.631e+05	y	4.534e+05	y	1.68	y	1.217e+06	1.217e+06	4.65e+01	y	2.99
30:14	3.884e+06	y	2.511e+06	y	1.55	y	6.396e+06	6.396e+06	2.31e+02	y	15.7
30:40	1.638e+05	n	1.020e+05	y	1.61	y	2.658e+05	2.658e+05	1.02e+01	y	0.654
30:54	1.357e+06	n	8.369e+05	n	1.62	y	2.194e+06	2.194e+06	8.05e+01	y	5.40
31:09	3.061e+05	n	2.006e+05	y	1.53	y	5.067e+05	5.067e+05	2.29e+01	y	1.25
31:21	6.247e+05	n	3.988e+05	y	1.57	y	1.024e+06	1.024e+06	5.11e+01	y	2.57 1,2,3,7,8-PeCDF
31:40	7.368e+05	n	4.466e+05	y	1.65	y	1.183e+06	1.183e+06	5.08e+01	y	2.91
31:49	3.643e+04	y	2.871e+04	y	1.27	n	6.514e+04	5.993e+04	4.17e+00	y	0.147
32:13	3.870e+04	y	2.855e+04	y	1.36	y	6.725e+04	6.725e+04	4.80e+00	y	0.165
32:21	2.434e+05	n	1.643e+05	y	1.48	y	4.076e+05	4.076e+05	2.05e+01	y	1.00
32:30	1.280e+06	n	8.141e+05	y	1.57	y	2.094e+06	2.094e+06	7.36e+01	y	5.05 2,3,4,7,8-PeCDF
33:35	7.984e+04	y	4.561e+04	y	1.75	y	1.254e+05	1.254e+05	6.59e+00	y	0.309 1,2,3,8,9-PeCDF

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDF EMPC Function: 3 Run #: 14 Checkcode: 5953  
 File Name: 090325P2 Sample #: 7 Sample text: P1193\_6679\_010 B1-C16-SS-A-090313 10.04g

Acquired: 26-MAR-09 03:54:17 Processed: 26-MAR-09 08:42:21

Total Conc.: 249.92 Unnamed Conc.: 197.449 Homolog count: 13 ✓

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
34:26	4.663e+06	n	3.731e+06	n	1.25	y	8.394e+06	8.394e+06	3.68e+02	y	24.4 1,2,3,4,6,8-HxCDF
34:38	1.563e+07	n	1.257e+07	n	1.24	y	2.820e+07	2.820e+07	1.26e+03	y	81.9
34:52	2.102e+05	n	9.509e+04	n	2.21	n	3.052e+05	2.130e+05	9.40e+00	y	0.618
35:03	7.163e+05	n	5.577e+05	n	1.28	y	1.274e+06	1.274e+06	4.58e+01	y	3.70
35:17	2.046e+07	n	1.626e+07	n	1.26	y	3.672e+07	3.672e+07	1.60e+03	y	107
35:33	1.282e+05	n	7.873e+04	n	1.63	n	2.070e+05	1.763e+05	5.88e+00	y	0.512
35:42	4.450e+05	n	3.666e+05	n	1.21	y	8.115e+05	8.115e+05	3.63e+01	y	2.36
35:49	2.341e+06	n	1.861e+06	n	1.26	y	4.202e+06	4.202e+06	1.80e+02	y	12.0 1,2,3,4,7,8-HxCDF
35:57	1.211e+06	n	9.119e+05	n	1.33	y	2.123e+06	2.123e+06	8.19e+01	y	5.59 1,2,3,6,7,8-HxCDF
36:07	7.634e+04	n	6.868e+04	n	1.11	y	1.450e+05	1.450e+05	5.58e+00	y	0.421
36:16	2.468e+05	n	2.276e+05	n	1.08	y	4.744e+05	4.744e+05	1.91e+01	y	1.38
36:36	1.550e+06	n	1.290e+06	n	1.20	y	2.840e+06	2.840e+06	1.26e+02	y	8.06 2,3,4,6,7,8-HxCDF
37:38	4.177e+05	n	3.089e+05	n	1.35	y	7.267e+05	7.267e+05	2.61e+01	y	2.45 1,2,3,7,8,9-HxCDF

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HpCDF EMPC Function: 4 Run #: 14 Checkcode: 5953  
 File Name: 090325P2 Sample #: 7 Sample text: P1193\_6679\_010 B1-C16-SS-A-090313 10.04g

Acquired: 26-MAR-09 03:54:17 Processed: 26-MAR-09 08:42:21

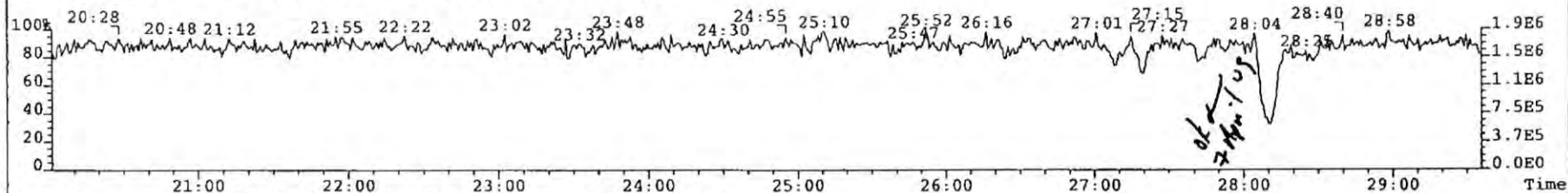
Total Conc.: 547.04 Unnamed Conc.: 343.794 Homolog count: 4 ✓

RT	ml	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name	
39:14	3.013e+07	n	2.888e+07	n	1.04	y	5.901e+07	5.901e+07	1.60e+03	y	196 1,2,3,4,6,7,8-HpCDF

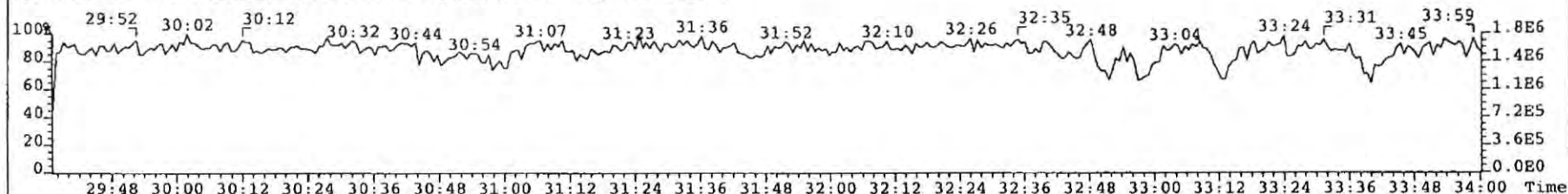
39:32	9.545e+05	y	8.324e+05	n	1.15	y	1.787e+06	1.787e+06	3.27e+01	y	6.59
39:43	4.713e+07	n	4.436e+07	n	1.06	y	9.150e+07	9.150e+07	2.36e+03	y	337
40:58	9.409e+05	n	8.381e+05	y	1.12	y	1.779e+06	1.779e+06	4.33e+01	y	7.38 1,2,3,4,7,8,9-HpCDF



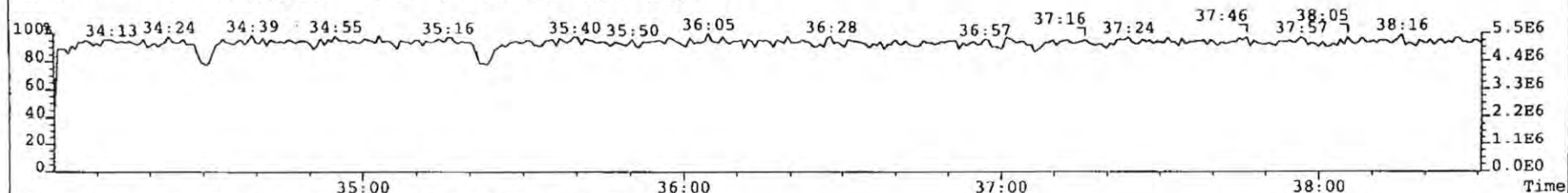
File: 090325P2 Acq: 26-MAR-2009 03:54:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: P1193\_6679\_010 B1-CL6-SS-A-090313 10.04g Vial# 27 File Text: AP DB5  
316.9824 S:7 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



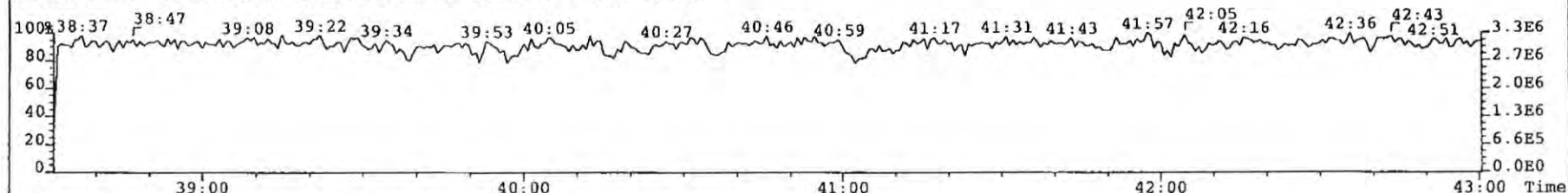
366.9792 S:7 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



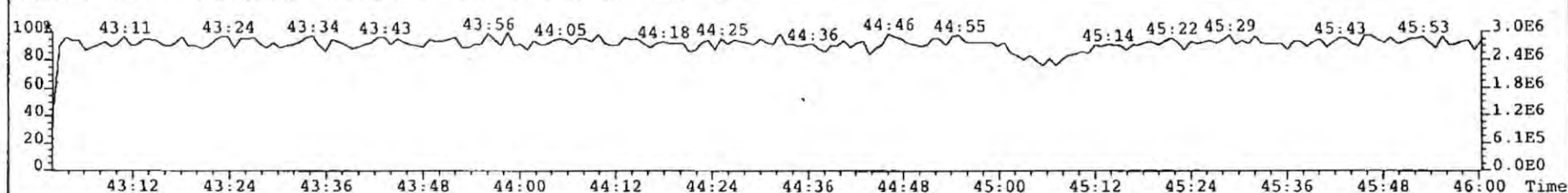
380.9760 S:7 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



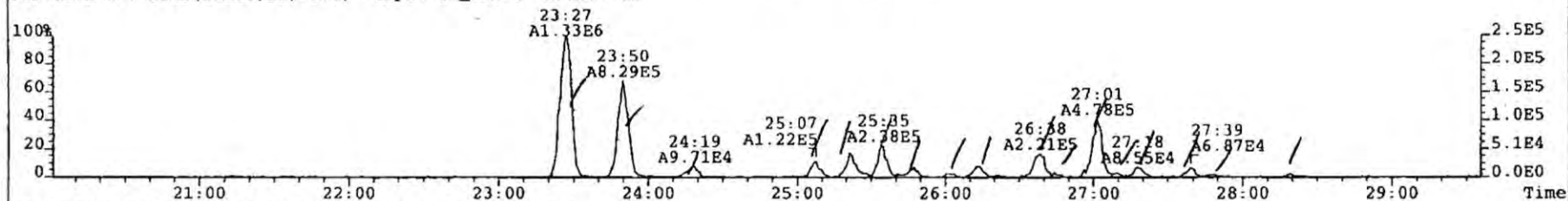
430.9728 S:7 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



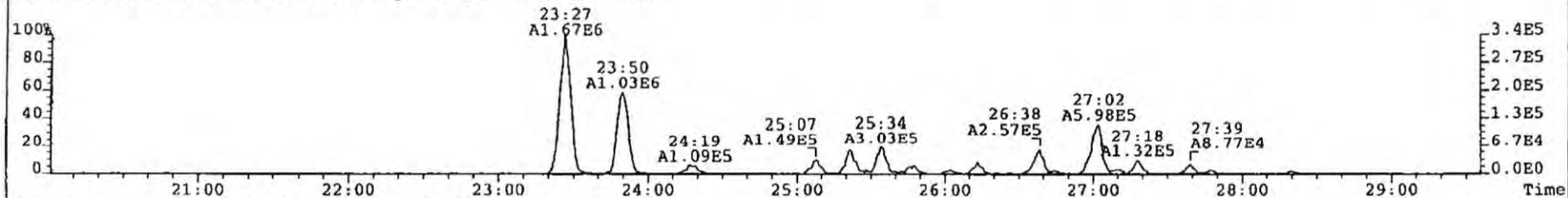
454.9728 S:7 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



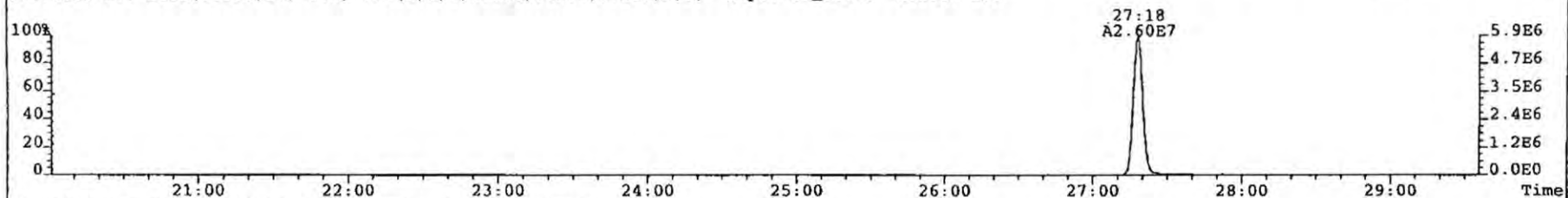
File: 090325P2 Acq: 26-MAR-2009 03:54:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: P1193\_6679\_010 B1-C16-SS-A-090313 10.04g Vial# 27 File Text: AP DB5  
319.8965 S:7 BSub(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 95



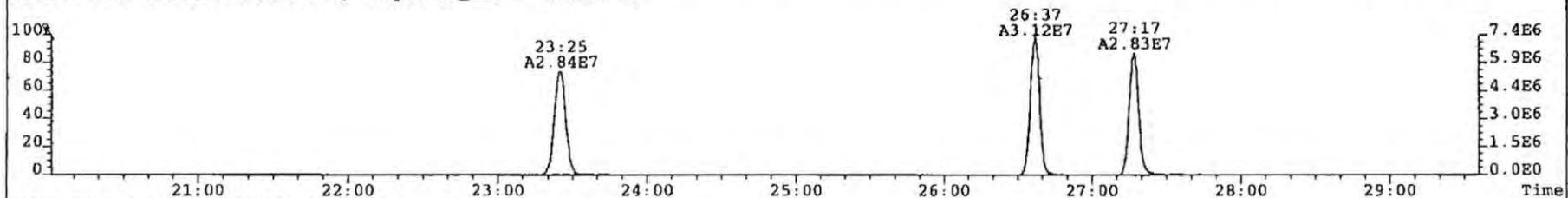
321.8936 S:7 BSub(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 106



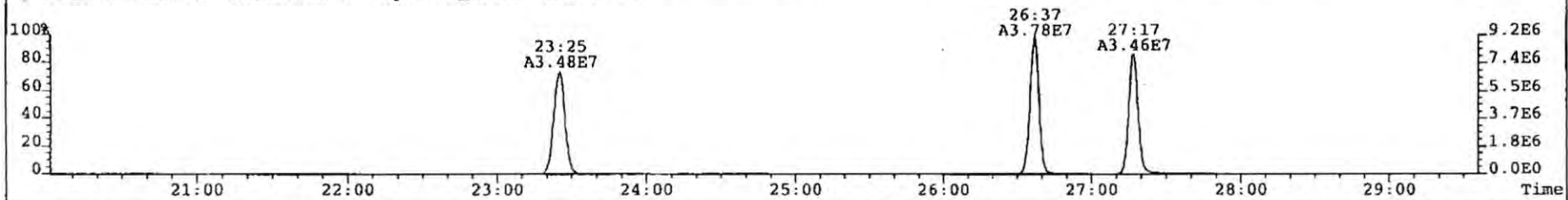
327.8850 S:7 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 108



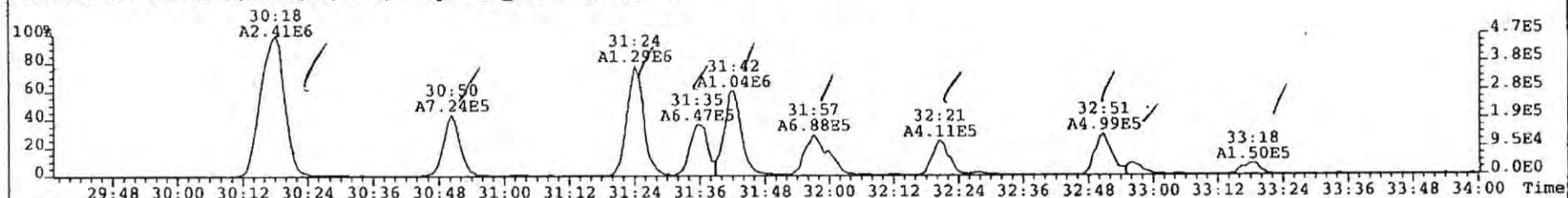
331.9368 S:7 BSub(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 461



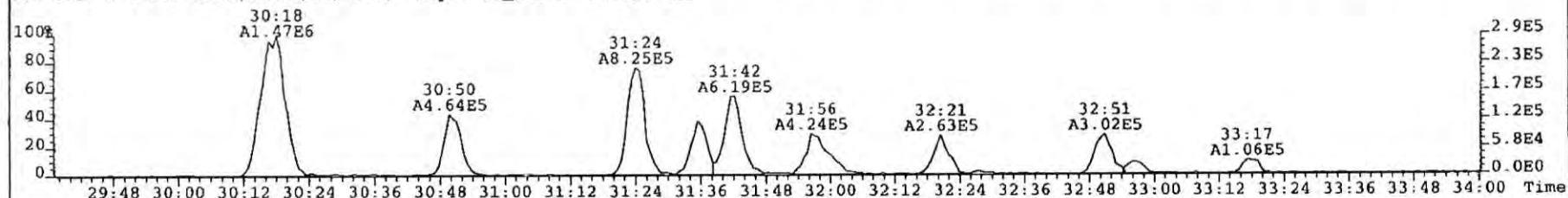
333.9339 S:7 BSub(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 102



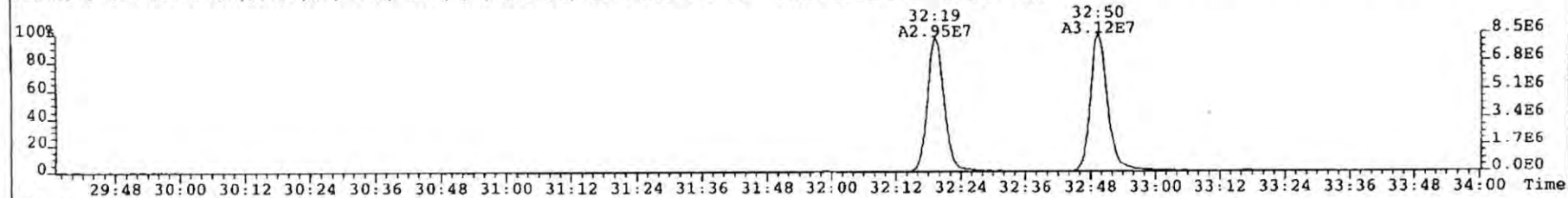
File: 090325P2 Acq: 26-MAR-2009 03:54:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: P1193\_6679\_010 B1-C16-SS-A-090313 10.04g Vial# 27 File Text: AP DBS  
355.8546 S:7 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 467



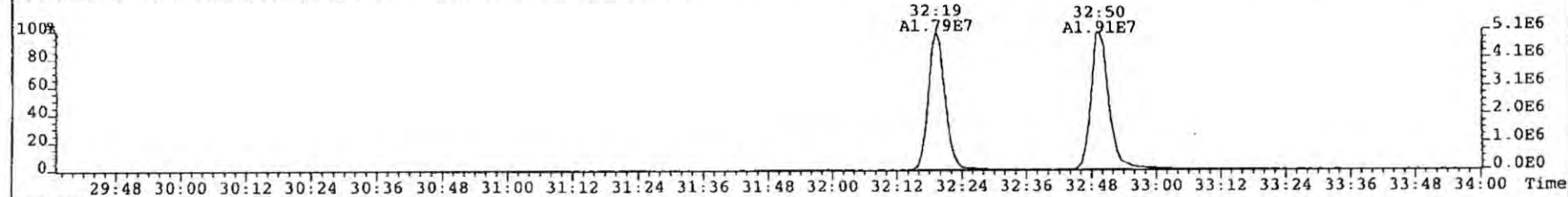
357.8517 S:7 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 512



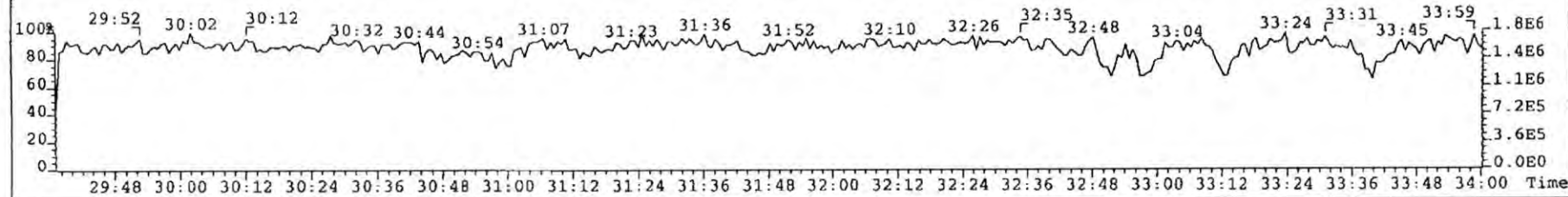
367.8949 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 100



369.8919 S:7 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 97

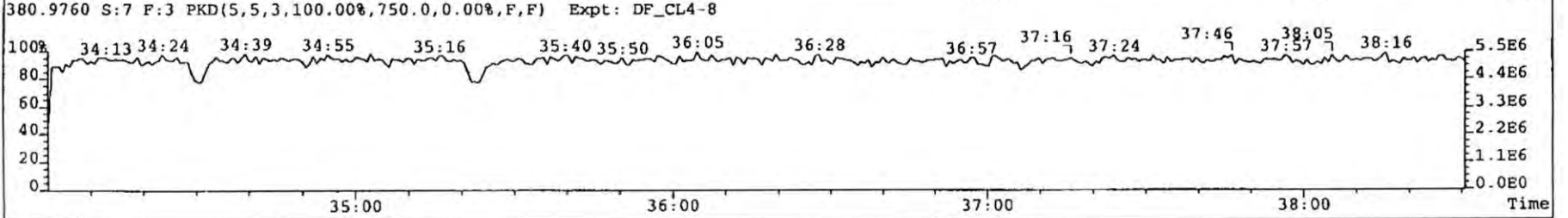
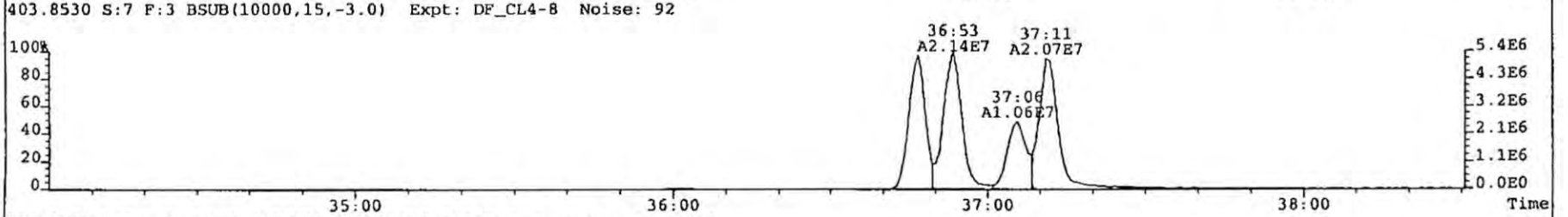
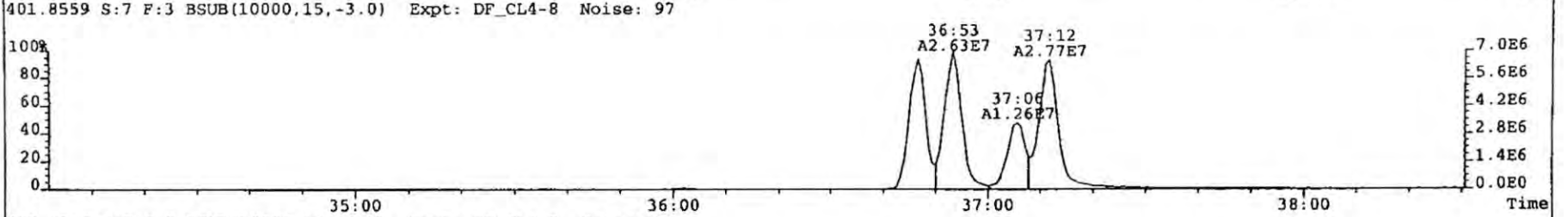
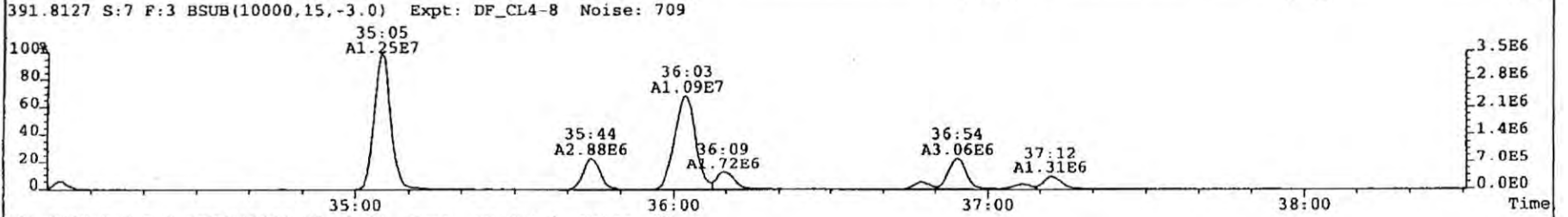
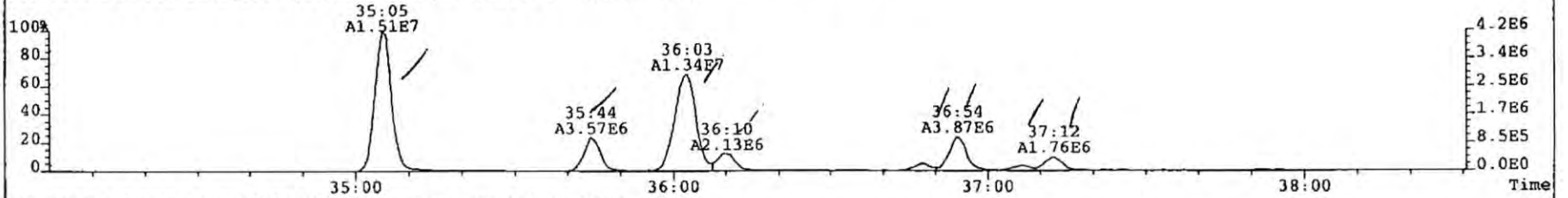


366.9792 S:7 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

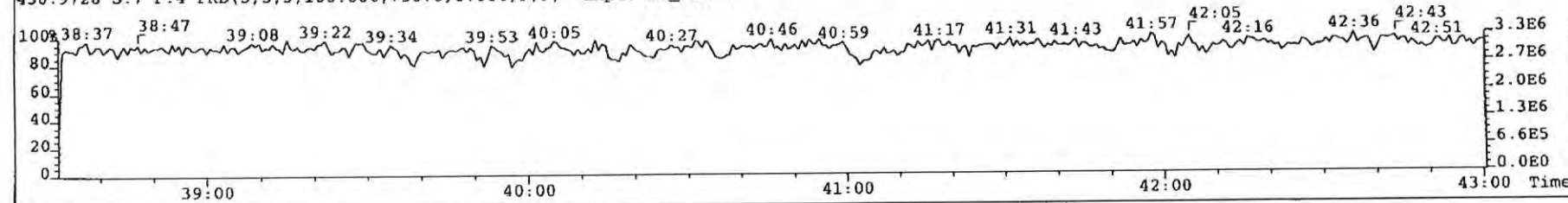
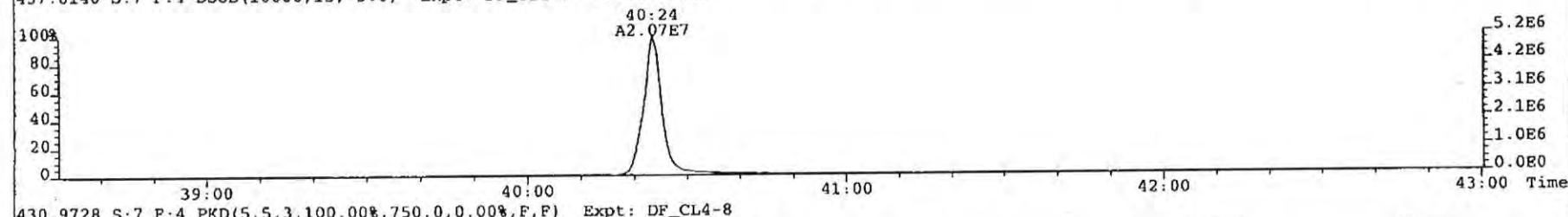
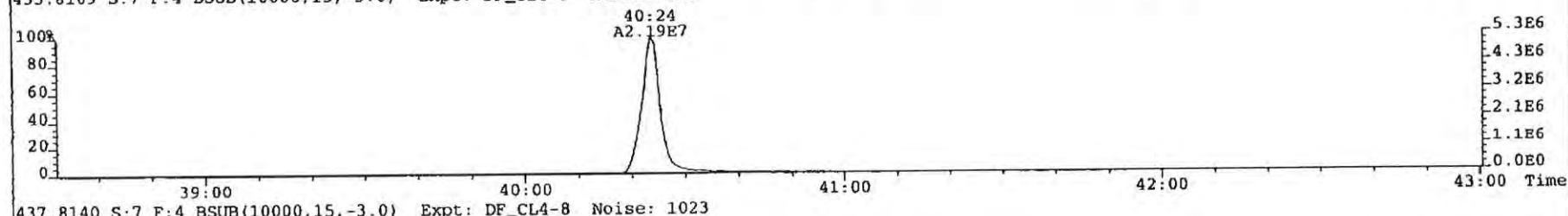
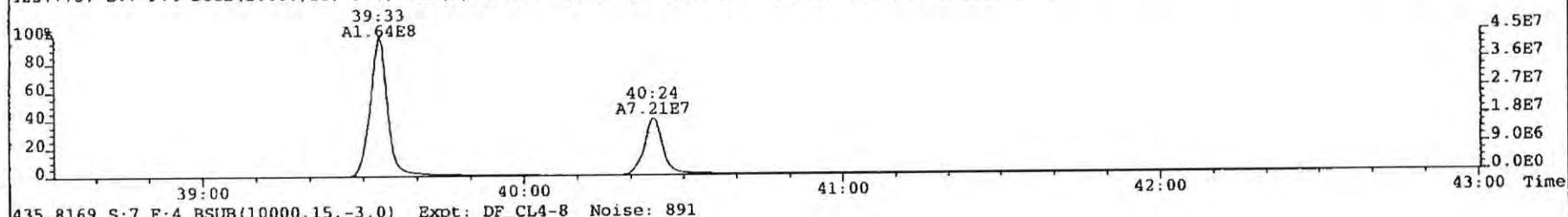
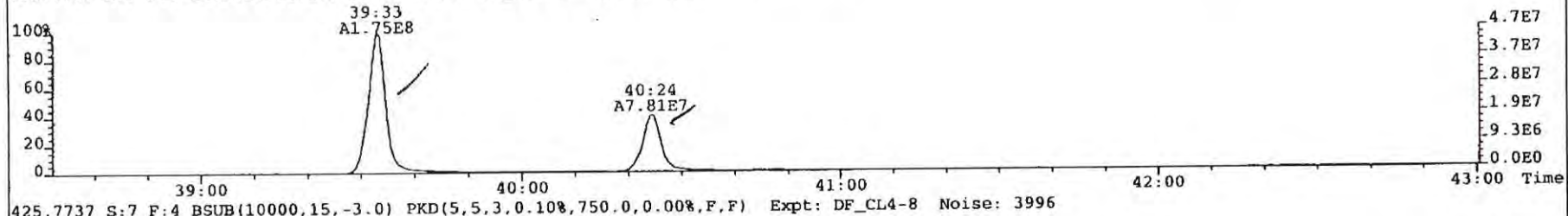




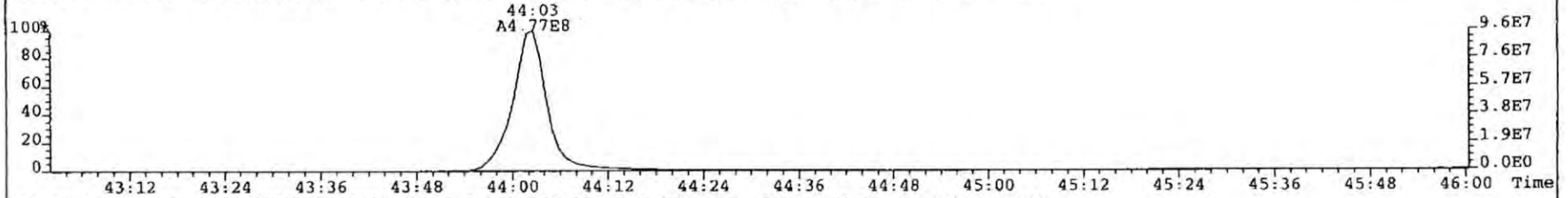
File: 090325P2 Acq: 26-MAR-2009 03:54:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: P1193\_6679\_010 B1-C16-SS-A-090313 10.04g Vial# 27 File Text: AP DB5  
389.8156 S:7 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1840



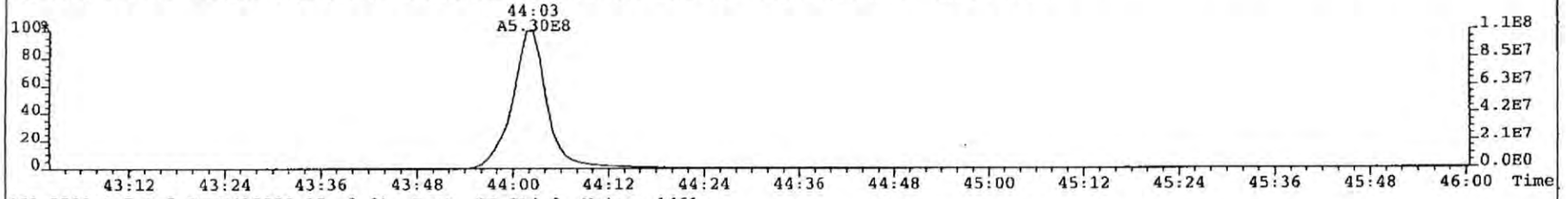
File: 090325P2 Acq: 26-MAR-2009 03:54:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: P1193\_6679\_010 B1-CL6-SS-A-090313 10.04g Vial# 27 File Text: AP DB5  
423.7767 S:7 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 4117



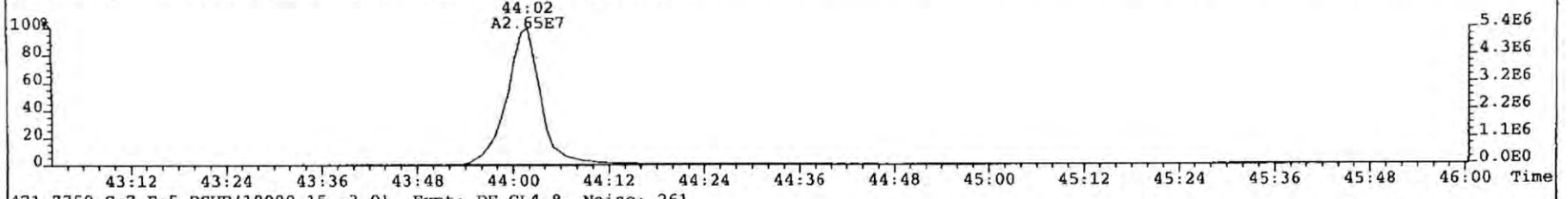
File: 090325P2 Acq: 26-MAR-2009 03:54:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: P1193\_6679\_010 B1-C16-SS-A-090313 10.04g Vial# 27 File Text: AP DB5  
457.7377 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 3890



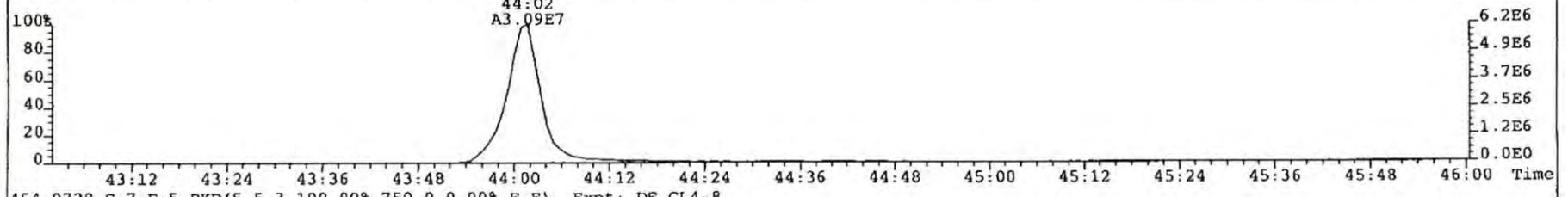
459.7348 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 4785



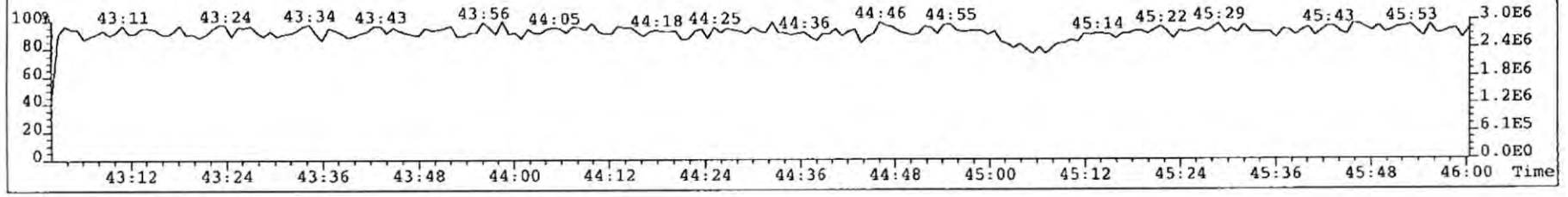
469.7780 S:7 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1461



471.7750 S:7 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 261

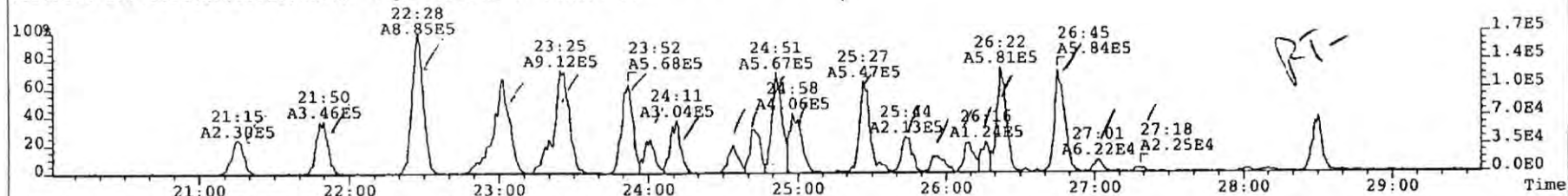


454.9728 S:7 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

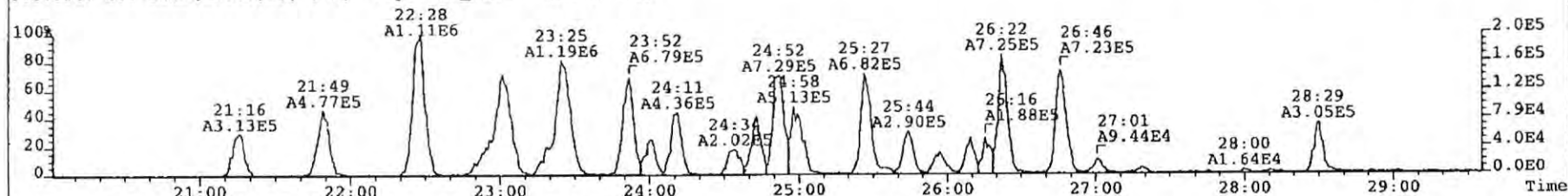




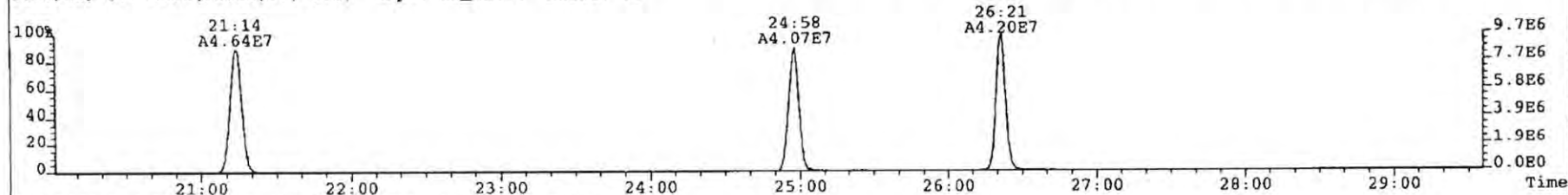
File: 090325P2 Acq: 26-MAR-2009 03:54:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: P1193\_6679\_010 B1-CL6-SS-A-090313 10.04g Vial# 27 File Text: AP DB5  
303.9016 S:7 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 86



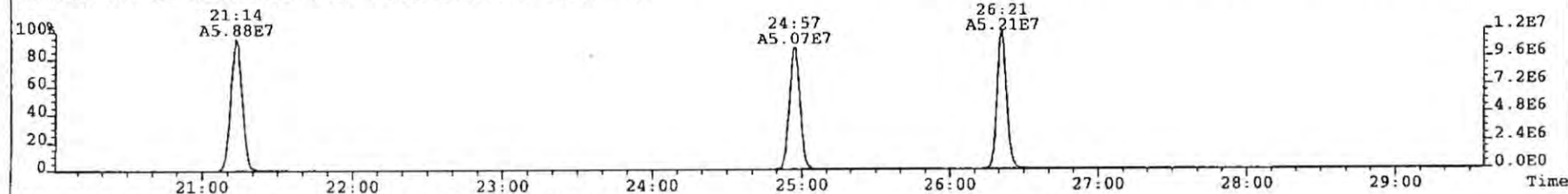
305.8987 S:7 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 145



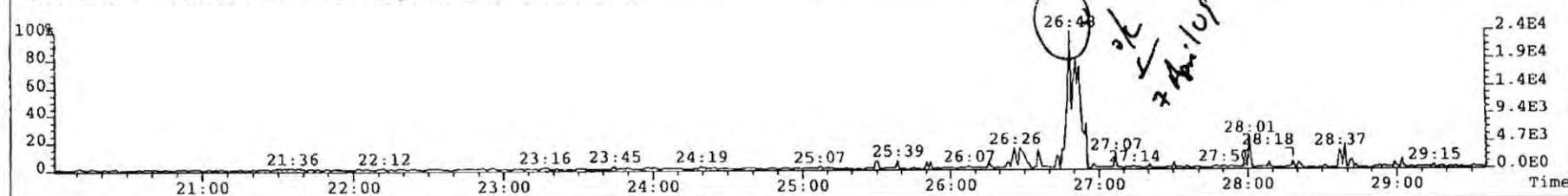
315.9419 S:7 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 90



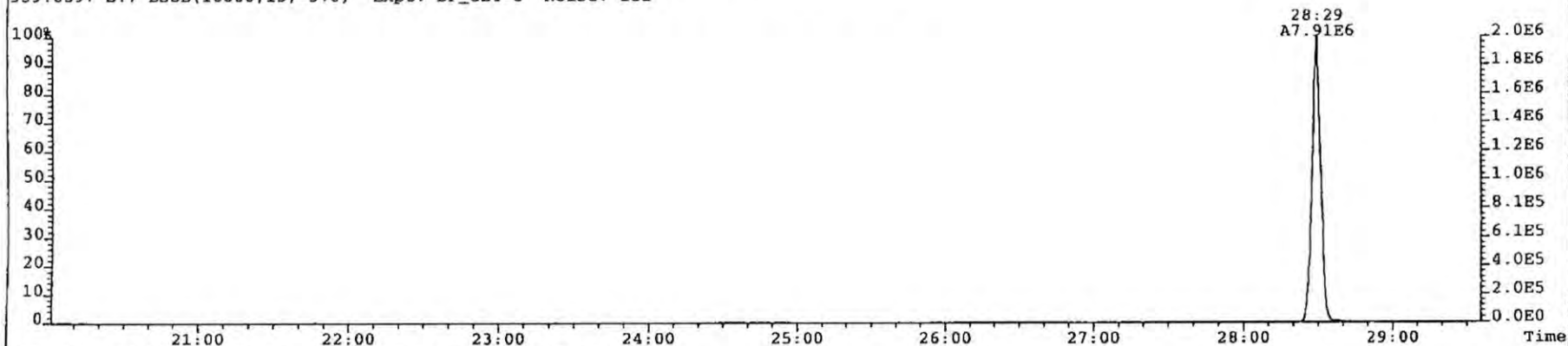
317.9389 S:7 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 108



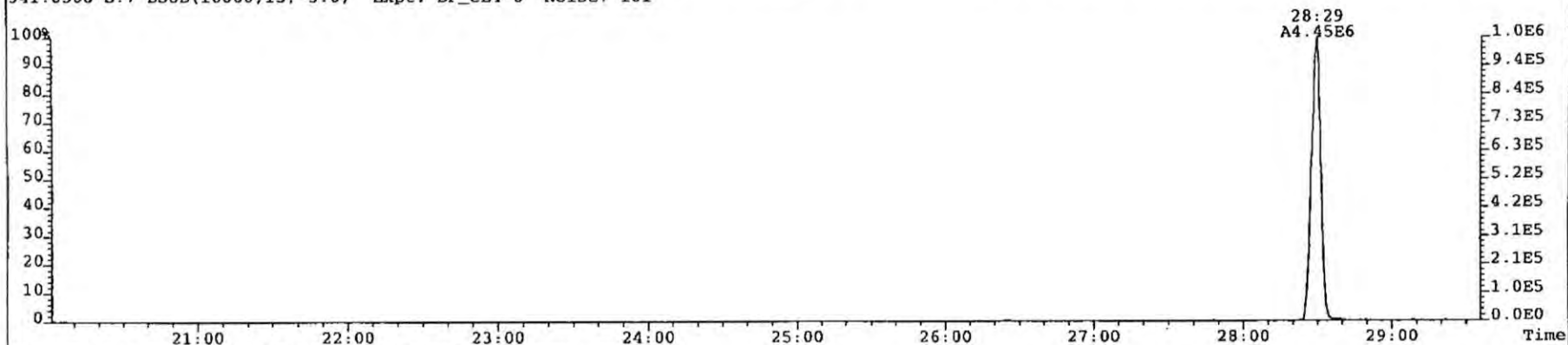
375.8364 S:7 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 96



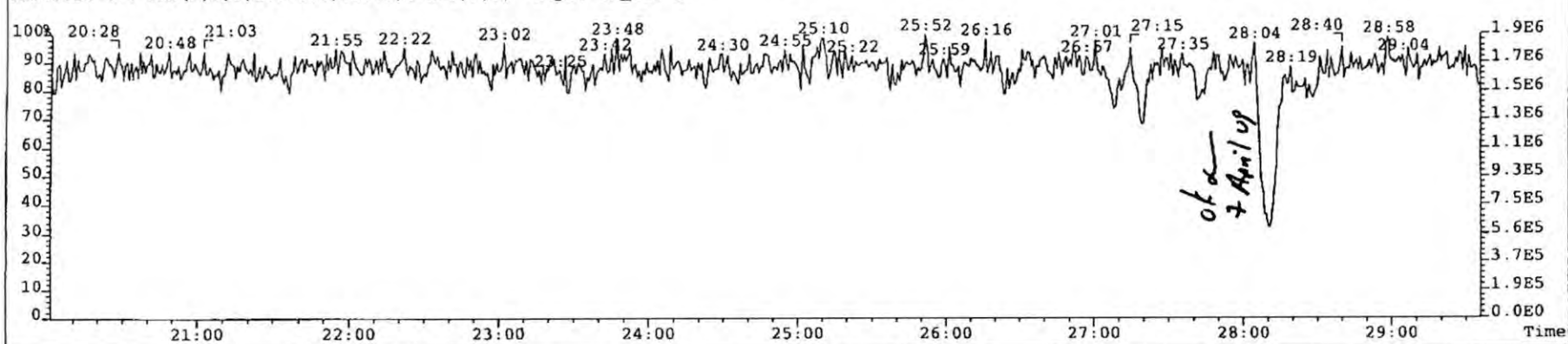
File: 090325P2 Acq: 26-MAR-2009 03:54:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: P1193\_6679\_010 B1-C16-SS-A-090313 10.04g Vial# 27 File Text: AP DB5  
339.8597 S:7 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 111



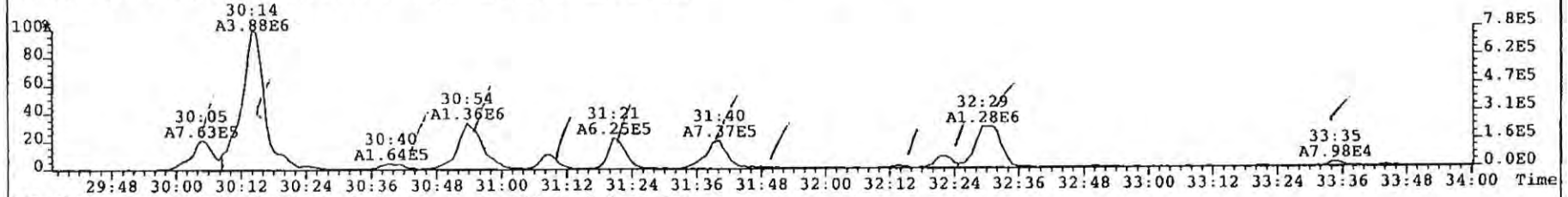
341.8568 S:7 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 101



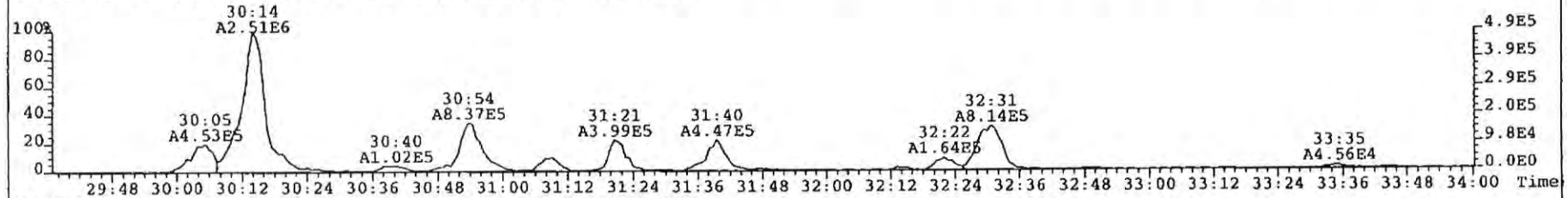
316.9824 S:7 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



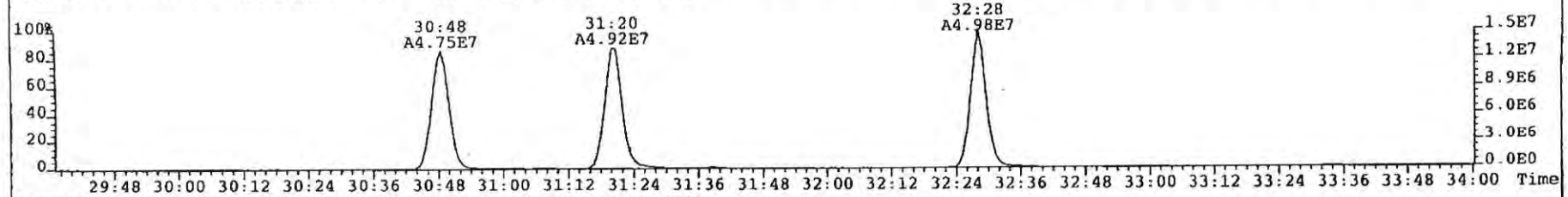
File: 090325P2 Acq: 26-MAR-2009 03:54:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: P1193\_6679\_010 B1-C16-SS-A-090313 10.04g Vial# 27 File Text: AP DB5  
339.8597 S:7 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 469



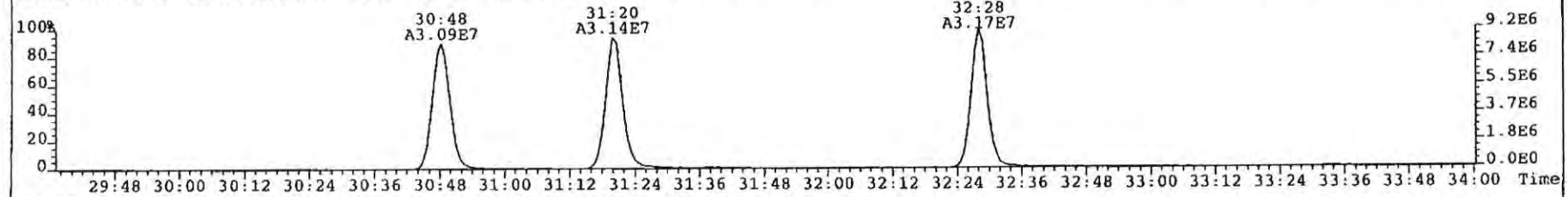
341.8568 S:7 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 374



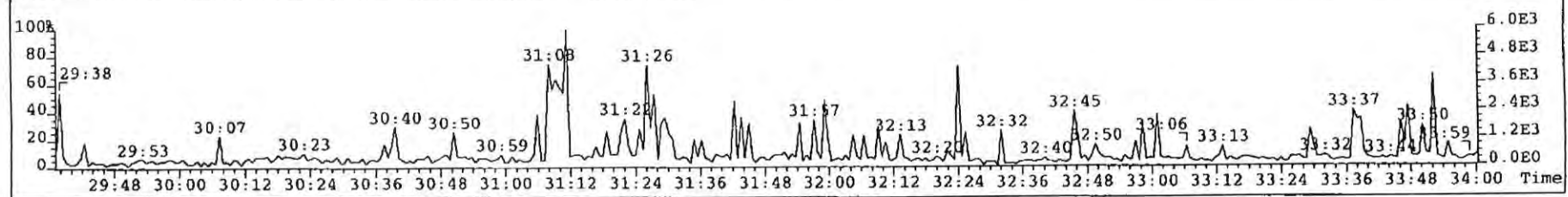
351.9000 S:7 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 3007



353.8970 S:7 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 2893

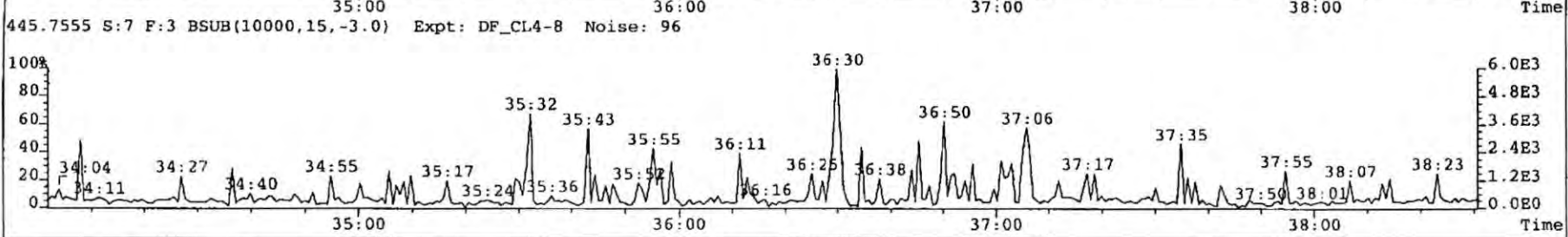
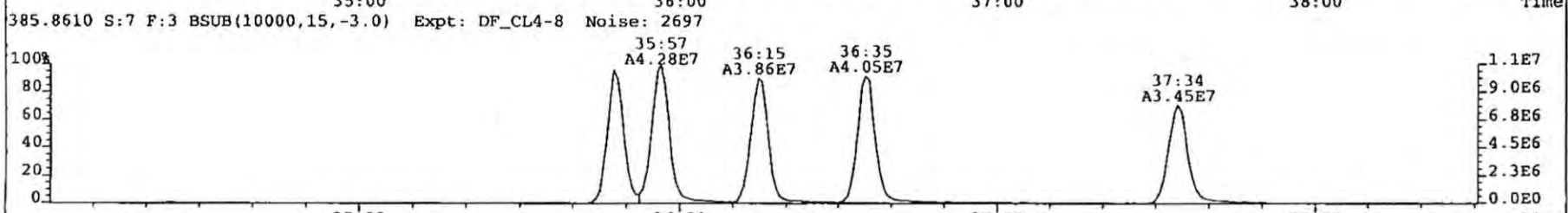
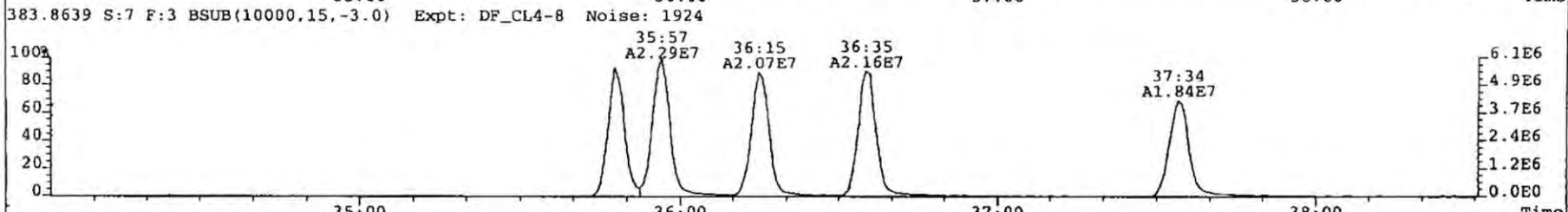
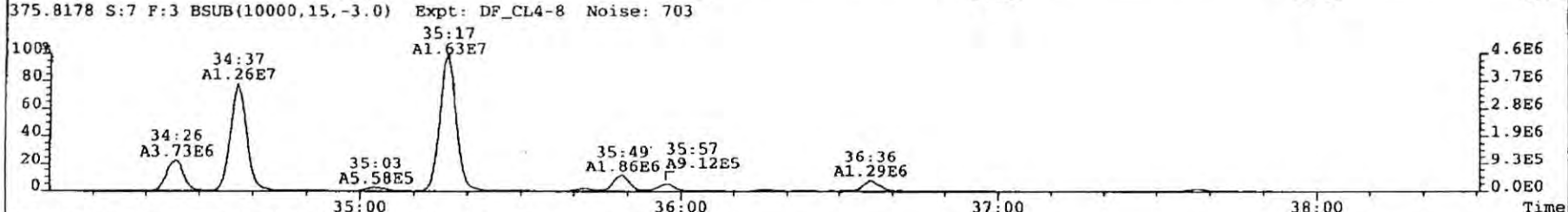
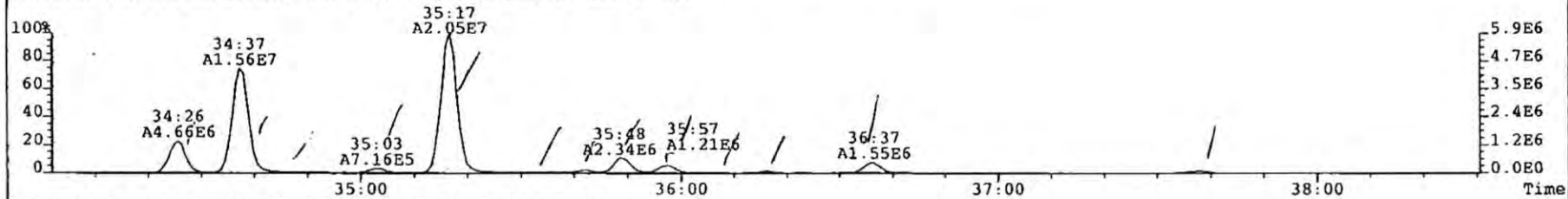


409.7974 S:7 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 101

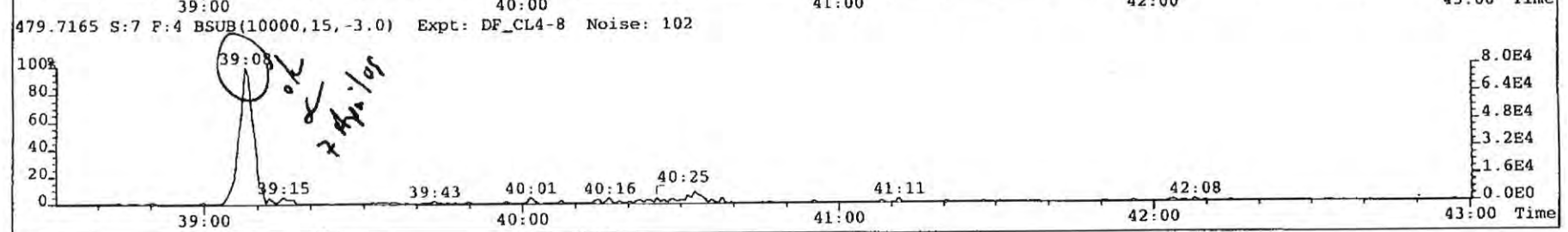
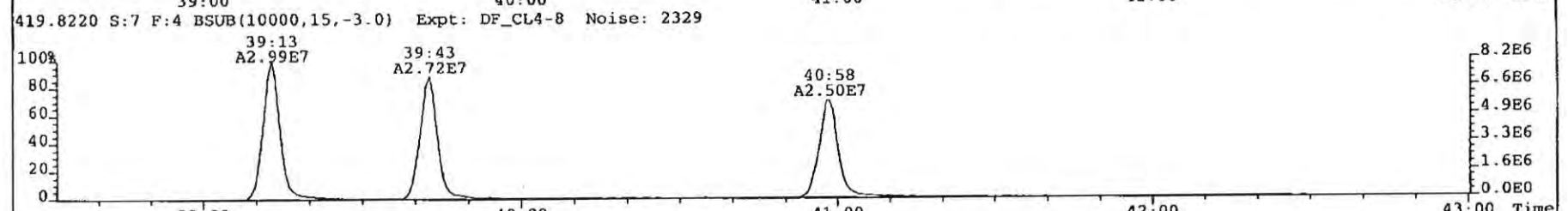
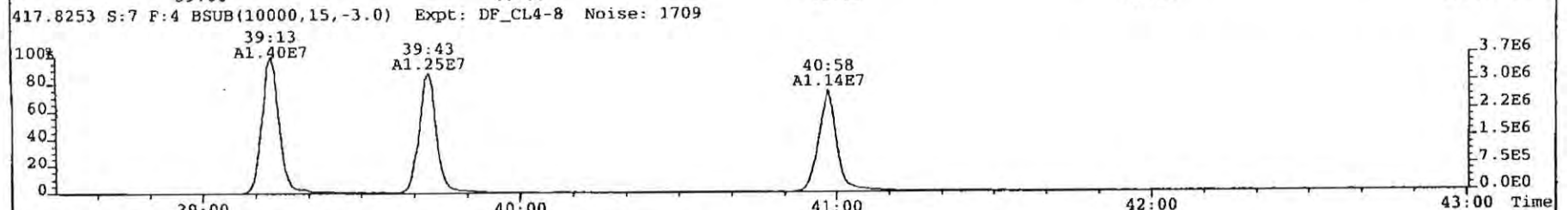
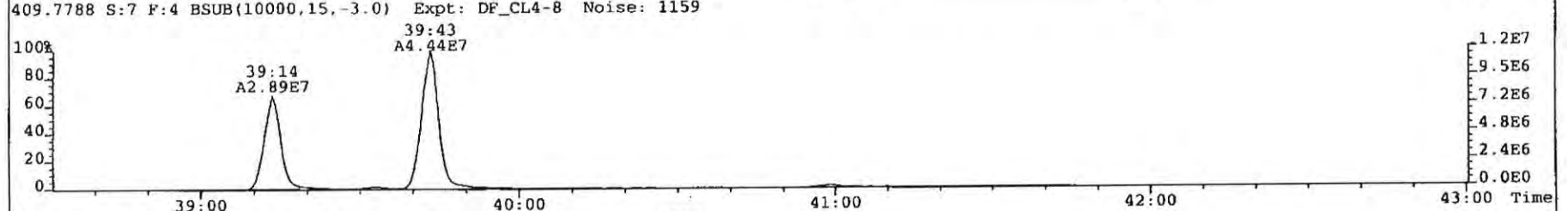
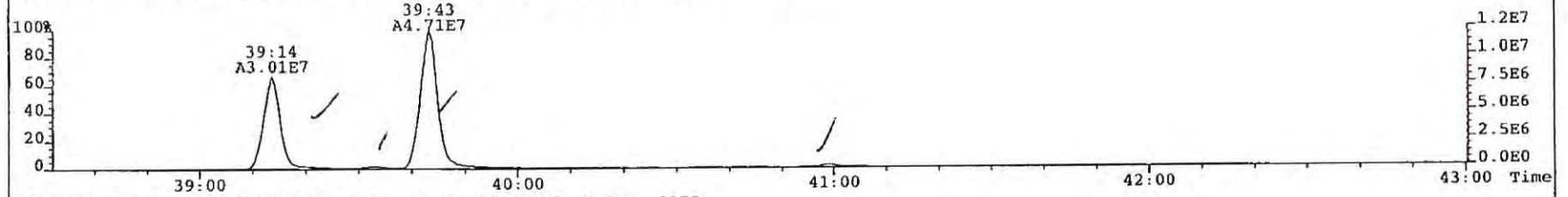




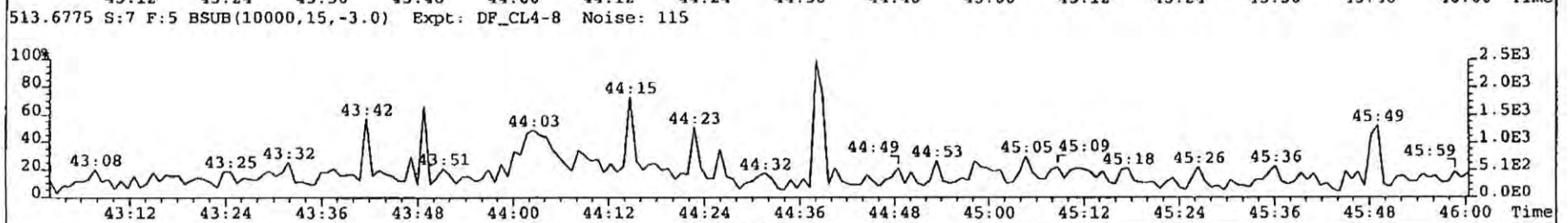
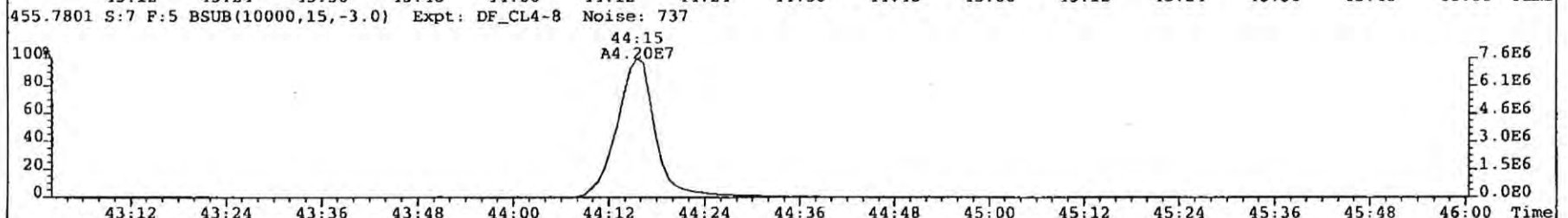
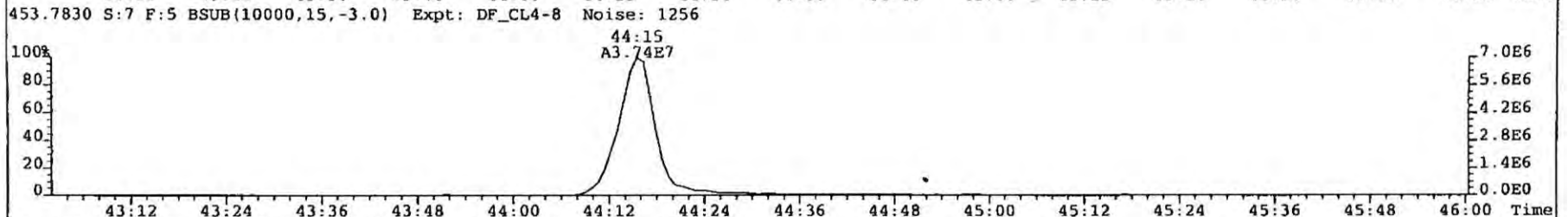
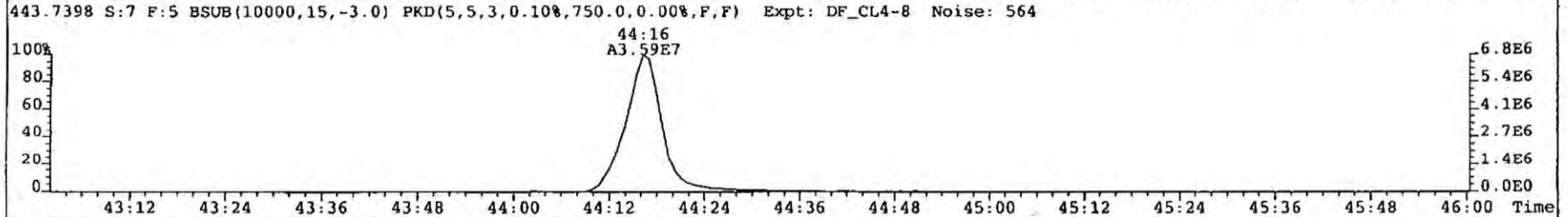
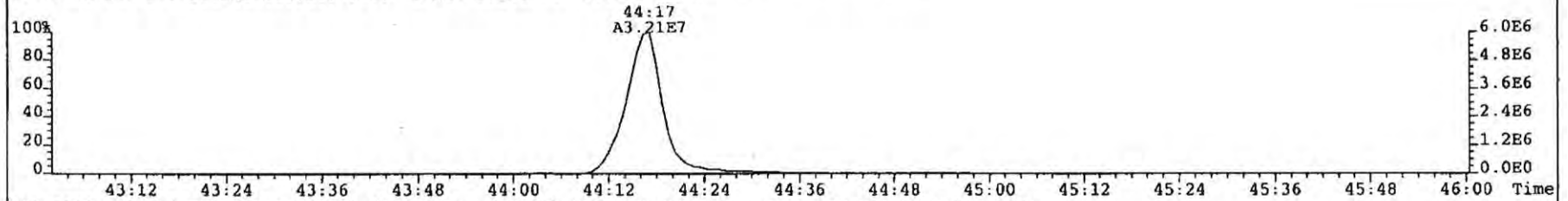
File: 090325P2 Acq: 26-MAR-2009 03:54:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: P1193\_6679\_010 B1-C16-SS-A-090313 10.04g Vial# 27 File Text: AP DB5  
373.8207 S:7 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 877



File: 090325P2 Acq: 26-MAR-2009 03:54:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: P1193\_6679\_010 B1-C16-SS-A-090313 10.04g Vial# 27 File Text: AP DB5  
407.7818 S:7 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1183



File: 090325P2 Acq: 26-MAR-2009 03:54:17 GC EI+ Voltage STR Autospec-UltimaE  
Sample# 7 Text: P1193\_6679\_010 B1-C16-SS-A-090313 10.04g Vial# 27 File Text: AP DB5  
441.7428 S:7 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1232





1613/8290 Sample Summary

Analytical Perspectives

[Form: DF]


Client ID: B1-S37-SS-A-090313      Filename: 090325P2      S: 8      Vial: 28      Acq: 26-MAR-09 04:44:41  
 Lab ID: P1193\_6679\_011      GC column ID: db-5      Cal: MM1\_DF\_07012007A\_25DEC08WT/Vol: 10.15  
 Sample text: P1193\_6679\_011 B1-S37-SS-A-090313 10.15g      Stds: JS (split adj.): 2000      CS/SS: 800      ES: 2000

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	2.25e+05	0.75 y	27:18	1.08	0.761	1499	2.5	0.0976	-
Ax	1,2,3,7,8-PeCDD	7.67e+05	1.59 y	32:51	1.00	3.28	1440	2.5	0.138	-
Ax	1,2,3,4,7,8-HxCDD	1.34e+06	1.24 y	36:47	1.08	6.40	5860	2.5	0.556	-
Ax	1,2,3,6,7,8-HxCDD	6.01e+06	1.23 y	36:54	0.94	29.7	5860	2.5	0.573	-
Ax	1,2,3,7,8,9-HxCDD	2.77e+06	1.25 y	37:12	0.99	12.7	5860	2.5	0.643	-
Ax	1,2,3,4,6,7,8-HpCDD	1.17e+08	1.05 y	40:24	0.97	603	13498	2.5	1.39	-
Ax	OCDD	6.62e+08	0.91 y	44:02	1.06	4490	57722	2.5	8.86	-
Ax2	OCDD-a	4.04e+07	2.61 y	44:02	0.06	4590	8229	2.5	21.1	-
Ax	2,3,7,8-TCDF	1.47e+06	0.77 y	26:23	1.05	3.05	1118	2.5	0.0465	-
Ax	1,2,3,7,8-PeCDF	1.06e+06	1.54 y	31:22	0.98	2.61	2328	2.5	0.136	-
Ax	2,3,4,7,8-PeCDF	2.12e+06	1.58 y	32:30	1.01	5.15	2328	2.5	0.128	-
Ax	1,2,3,4,7,8-HxCDF	3.95e+06	1.27 y	35:48	1.22	11.9	3676	2.5	0.141	-
Ax	1,2,3,6,7,8-HxCDF	2.06e+06	1.24 y	35:57	1.15	5.77	3676	2.5	0.142	-
Ax	2,3,4,6,7,8-HxCDF	2.86e+06	1.26 y	36:36	1.13	8.60	3676	2.5	0.155	-
Ax	1,2,3,7,8,9-HxCDF	6.82e+05	1.18 y	37:37	1.12	2.46	3676	2.5	0.211	-
Ax	1,2,3,4,6,7,8-HpCDF	6.07e+07	1.05 y	39:13	1.37	206	5813	2.5	0.257	-
Ax	1,2,3,4,7,8,9-HpCDF	1.61e+06	1.14 y	40:58	1.32	6.86	5813	2.5	0.375	-
Ax	OCDF	6.16e+07	0.87 y	44:15	0.94	346	14364	2.5	1.94	-
Ax2	OCDF-a	3.63e+06	2.69 y	44:15	0.05	363	2991	2.5	7.18	-
ES	13C-2,3,7,8-TCDD	5.37e+07	0.82 y	27:17	0.99	156	2354	2.5	0.139	79.4
ES	13C-1,2,3,7,8-PeCDD	4.62e+07	1.64 y	32:50	0.83	160	6478	2.5	0.455	81.2
ES	13C-1,2,3,4,7,8-HxCDD	3.82e+07	1.29 y	36:46	1.08	158	12980	2.5	1.09	80.1
ES	13C-1,2,3,6,7,8-HxCDD	4.22e+07	1.27 y	36:53	1.23	154	12980	2.5	0.966	78.3
ES	13C-1,2,3,7,8,9-HxCDD	4.31e+07	1.28 y	37:12	1.21	159	12980	2.5	0.978	80.9
ES	13C-1,2,3,4,6,7,8-HpCDD	3.91e+07	1.07 y	40:23	0.98	178	11025	2.5	1.02	90.4
ES	13C-OCDD	5.47e+07	0.86 y	44:00	0.66	372	13465	2.5	1.86	94.3
ES	13C-2,3,7,8-TCDF	9.08e+07	0.79 y	26:21	0.96	195	1555	2.5	0.0722	99.0
ES	13C-1,2,3,7,8-PeCDF	8.14e+07	1.61 y	31:21	0.85	196	10219	2.5	0.532	99.5
ES	13C-2,3,4,7,8-PeCDF	8.01e+07	1.57 y	32:28	0.88	186	10219	2.5	0.513	94.5
ES	13C-1,2,3,4,7,8-HxCDF	5.37e+07	0.52 y	35:48	1.47	163	24665	2.5	1.52	82.8
ES	13C-1,2,3,6,7,8-HxCDF	6.11e+07	0.54 y	35:56	1.78	154	24665	2.5	1.27	78.2
ES	13C-2,3,4,6,7,8-HxCDF	5.80e+07	0.53 y	36:35	1.61	161	24665	2.5	1.40	81.9
ES	13C-1,2,3,7,8,9-HxCDF	4.90e+07	0.53 y	37:34	1.40	156	24665	2.5	1.61	79.4
ES	13C-1,2,3,4,6,7,8-HpCDF	4.26e+07	0.47 y	39:13	1.16	164	15242	2.5	1.20	83.3
ES	13C-1,2,3,4,7,8,9-HpCDF	3.51e+07	0.46 y	40:58	0.92	170	15242	2.5	1.51	86.5
ES	13C-OCDF	7.47e+07	0.90 y	44:15	1.04	322	13235	2.5	1.16	81.7
CS	37C1-2,3,7,8-TCDD	2.19e+07		27:18	0.99	64.0			0.571	81.2
CS	13C-1,2,3,4,7-PeCDD	4.43e+07	1.67 y	32:19	0.77	166	6478	2.5	0.494	84.4
CS	13C-1,2,3,4,6-PeCDF	8.17e+07	1.57 y	30:50	0.79	211	10219	2.5	0.571	107
CS	13C-1,2,3,4,6,9-HxCDF	5.42e+07	0.53 y	36:15	1.41	172	24665	2.5	1.59	87.2
CS	13C-1,2,3,4,6,8,9-HpCDF	3.82e+07	0.46 y	39:42	0.91	188	15242	2.5	1.53	95.3
NA	n/a	*	* n	NotF*	Div0	*	2237	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	6.81e+07	0.83 y	26:37	-	19.1	2354	2.5	-	-
JS	13C-1,2,3,4-TCDF	9.59e+07	0.80 y	24:58	-	17.0	1555	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	2.20e+07	1.28 y	37:05	-	9.97	1239	2.5	-	-

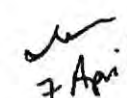
ok

ok  
7 April 09

ok

Analyst 

Date: 02 Apr 09

  
7 April 09

SS	37C1-2,3,7,8-TCDD	2.19e+07		27:18	1.00	80.1			0.677	102
SS	13C-1,2,3,4,7-PeCDD	4.43e+07	1.67 y	32:19	0.93	204	6478	2.5	0.668	103
SS	13C-1,2,3,4,6-PeCDF	8.17e+07	1.57 y	30:50	0.94	211	10219	2.5	0.629	107
SS	13C-1,2,3,4,6,9-HxCDF	5.42e+07	0.53 y	36:15	0.80	218	24665	2.5	1.37	111
SS	13C-1,2,3,4,6,8,9-HpCDF	3.82e+07	0.46 y	39:42	0.79	223	15242	2.5	1.16	113
SBS	2,4,6,8-TCDF	1.98e+06	0.78 y	22:30	1.05	4.11	1118	2.5	0.0465	-
Ay	1,3,6,8-TCDD	2.79e+06	0.77 y	23:28	1.08	9.46	1499	2.5	0.0976	-
Ay	1,2,3,9-TCDD	6.57e+04	0.95 n	27:09	1.08	0.222	1499	2.5	0.0976	-
Ay	1,2,8,9-TCDD	*	* n	NotF>>	1.08	*	1499	2.5	0.0976	-
Ay	1,2,4,7,9-PeCDD	4.31e+06	1.61 y	30:19	1.00	18.4	1440	2.5	0.138	-
Ay	1,2,3,8,9-PeCDD	2.85e+05	1.58 y	33:18	1.00	1.22	1440	2.5	0.138	-
Ay	1,2,4,6,7,9-HxCDD	2.09e+07	1.22 y	35:05	1.00	99.4	5860	2.5	0.592	-
Ay	1,2,3,4,6,7,9-HpCDD	1.57e+08	1.05 y	39:33	0.97	813	13498	2.5	1.39	-
Ay	1,3,6,8-TCDF	6.19e+05	0.82 y	21:21	1.05	1.28	1118	2.5	0.0465	-
Ay	2,3,4,8-TCDF	3.75e+05	0.85 y	26:16	1.05	0.777	1118	2.5	0.0465	-
Ay	1,2,8,9-TCDF	*	* n	NotF>>	1.05	*	1118	2.5	0.0465	-
Ay	1,3,4,6,8-PeCDF	1.14e+07	1.72 y	28:30	1.05	23.6	3196	2.5	0.133	-
Ay	1,2,3,8,9-PeCDF	1.27e+05	1.65 y	33:35	1.00	0.311	2328	2.5	0.132	-
Ay	1,2,3,4,6,8-HxCDF	8.24e+06	1.28 y	34:25	1.15	25.4	3676	2.5	0.160	-
Tot	Total Tetra-Dioxins	8.64e+06	0.77 y	23:28	1.08	29.3	1499	2.5	0.0976	-
Tot	Total Penta-Dioxins	1.35e+07	1.61 y	30:19	1.00	57.6	1440	2.5	0.138	-
Tot	Total Hexa-Dioxins	5.96e+07	1.22 y	35:05	1.00	284	5860	2.5	0.592	-
Tot	Total Hepta-Dioxins	2.74e+08	1.05 y	39:33	0.97	1420	13498	2.5	1.39	-
Tot	Total Tetra-Furans	1.94e+07	0.82 y	21:21	1.05	40.3	1118	2.5	0.0465	-
Tot	Total Penta-Furans	1.67e+07	1.57 y	30:07	1.00	40.6	2328	2.5	0.132	-
Tot	Total Hexa-Furans	8.29e+07	1.28 y	34:25	1.15	254	3676	2.5	0.160	-
Tot	Total Hepta-Furans	1.53e+08	1.05 y	39:13	1.35	555	5813	2.5	0.309	-
Tot	TCDD EMPC	8.93e+06	0.77 y	23:28	1.08	30.2	1499	2.5	0.0976	-
Tot	PeCDD EMPC	1.37e+07	1.61 y	30:19	1.00	58.7	1440	2.5	0.138	-
Tot	HxCDD EMPC	6.02e+07	1.22 y	35:05	1.00	288	5860	2.5	0.592	-
Tot	HpCDD EMPC	2.74e+08	1.05 y	39:33	0.97	1420	13498	2.5	1.39	-
Tot	TCDF EMPC	2.02e+07	0.82 y	21:21	1.05	41.8	1118	2.5	0.0465	-
Tot	PeCDF EMPC	1.67e+07	1.57 y	30:07	1.00	40.6	2328	2.5	0.132	-
Tot	HxCDF EMPC	8.32e+07	1.28 y	34:25	1.15	255	3676	2.5	0.160	-
Tot	HpCDF EMPC	1.53e+08	1.05 y	39:13	1.35	555	5813	2.5	0.309	-
AS	13C-1,3,6,8-TCDD	5.18e+07	0.83 y	23:26	1.09	138	2354	2.5	0.127	70.0
AS	13C-1,3,6,8-TCDF	1.01e+08	0.80 y	21:20	1.09	190	1555	2.5	0.0634	96.7
DPE	HxCDFE	*		NotF>>	-	*	-	-	-	-
DPE	HpCDFE	*		NotF>>	-	*	-	-	-	-
DPE	OCDFE	*		NotF>>	-	*	-	-	-	-
DPE	NCDPE	*		NotF>>	-	*	-	-	-	-
DPE	DCDFE	*		NotF>>	-	*	-	-	-	-
LMC	Fn1 check mass	*		NotF>>	-	*	-	-	-	-
LMC	Fn2 check mass	*		NotF>>	-	*	-	-	-	-
LMC	Fn3 check mass	*		NotF>>	-	*	-	-	-	-
LMC	Fn4 check mass	*		NotF>>	-	*	-	-	-	-
LMC	Fn5 check mass	*		NotF>>	-	*	-	-	-	-

no

ok of + Apr 10

Totals Results Analytical Perspectives [Form: TOT]

Totals class: TCDD EMPC Function: 1 Run #: 15 Checkcode: 0245  
 File Name: 090325P2 Sample #: 8 Sample text: P1193\_6679\_011 B1-S37-SS-A-090313 10.15g

Acquired: 26-MAR-09 04:44:41 Processed: 26-MAR-09 08:42:21

Total Conc.: 30.232 Unnamed Conc.: 19.787 Homolog count: 16

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
23:28	1.214e+06	n	1.581e+06	n	0.77	y	2.795e+06	2.795e+06	2.07e+02	y	9.46	1,3,6,8-TCDD
23:50	8.345e+05	n	1.006e+06	n	0.83	y	1.841e+06	1.841e+06	1.43e+02	y	6.23	
24:18	1.212e+05	y	1.545e+05	n	0.78	y	2.757e+05	2.757e+05	2.26e+01	y	0.934	
25:07	1.277e+05	n	1.511e+05	n	0.85	y	2.788e+05	2.788e+05	2.22e+01	y	0.944	
25:22	2.296e+05	y	2.785e+05	y	0.82	y	5.081e+05	5.081e+05	3.59e+01	y	1.72	
25:34	2.224e+05	y	2.957e+05	y	0.75	y	5.181e+05	5.181e+05	4.58e+01	y	1.75	
25:47	8.548e+04	n	1.088e+05	y	0.79	y	1.943e+05	1.943e+05	1.69e+01	y	0.658	
26:02	3.618e+04	n	4.345e+04	y	0.83	y	7.963e+04	7.963e+04	7.08e+00	y	0.270	
26:13	9.330e+04	n	1.018e+05	n	0.92	n	1.951e+05	1.803e+05	1.51e+01	y	0.610	
26:38	2.041e+05	y	2.616e+05	y	0.78	y	4.657e+05	4.657e+05	3.62e+01	y	1.58	
26:45	2.618e+04	y	3.711e+04	y	0.71	y	6.329e+04	6.329e+04	7.25e+00	y	0.214	
27:01	5.634e+05	n	6.820e+05	n	0.83	y	1.245e+06	1.245e+06	9.36e+01	y	4.22	
27:09	3.539e+04	y	3.711e+04	y	0.95	n	7.250e+04	6.569e+04	7.55e+00	y	0.222	1,2,3,9-TCDD
27:18	9.641e+04	y	1.284e+05	y	0.75	y	2.248e+05	2.248e+05	1.99e+01	y	0.761	2,3,7,8-TCDD
27:38	7.098e+04	n	8.361e+04	n	0.85	y	1.546e+05	1.546e+05	1.27e+01	y	0.523	
27:47	1.721e+04	y	2.744e+04	y	0.63	n	4.465e+04	3.956e+04	4.83e+00	y	0.134	

Totals Results Analytical Perspectives [Form: TOT]

Totals class: PeCDD EMPC Function: 2 Run #: 15 Checkcode: 0245  
 File Name: 090325P2 Sample #: 8 Sample text: P1193\_6679\_011 B1-S37-SS-A-090313 10.15g

Acquired: 26-MAR-09 04:44:41 Processed: 26-MAR-09 08:42:21

Total Conc.: 58.675 Unnamed Conc.: 35.748 Homolog count: 10

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
30:19	2.661e+06	n	1.648e+06	n	1.61	y	4.309e+06	4.309e+06	2.34e+02	y	18.4	1,2,4,7,9-PeCDD
30:52	7.351e+05	n	4.388e+05	n	1.68	y	1.174e+06	1.174e+06	8.47e+01	y	5.02	
31:25	1.411e+06	n	8.623e+05	n	1.64	y	2.274e+06	2.274e+06	1.65e+02	y	9.72	
31:36	6.463e+05	n	4.190e+05	n	1.54	y	1.065e+06	1.065e+06	8.70e+01	y	4.56	
31:42	1.080e+06	n	6.393e+05	n	1.69	y	1.720e+06	1.720e+06	1.29e+02	y	7.35	
31:58	7.174e+05	n	4.615e+05	n	1.55	y	1.179e+06	1.179e+06	6.54e+01	y	5.04	
32:21	4.287e+05	n	2.619e+05	n	1.64	y	6.906e+05	6.906e+05	5.09e+01	y	2.95	
32:51	4.702e+05	n	2.966e+05	n	1.59	y	7.668e+05	7.668e+05	5.95e+01	y	3.28	1,2,3,7,8-PeCDD
32:57	1.562e+05	n	1.220e+05	n	1.28	n	2.782e+05	2.570e+05	2.41e+01	y	1.10	
33:18	1.748e+05	n	1.104e+05	n	1.58	y	2.852e+05	2.852e+05	2.16e+01	y	1.22	1,2,3,8,9-PeCDD

Totals Results Analytical Perspectives [Form: TOT]

Totals class: HxCDD EMPC Function: 3 Run #: 15 Checkcode: 0245  
 File Name: 090325P2 Sample #: 8 Sample text: P1193\_6679\_011 B1-S37-SS-A-090313 10.15g

Acquired: 26-MAR-09 04:44:41 Processed: 26-MAR-09 08:42:21

Total Conc.: 287.60 Unnamed Conc.: 139.347 Homolog count: 9



RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
35:06	1.146e+07	n	9.406e+06	n	1.22	y	2.086e+07	2.086e+07	4.61e+02	y	99.4	1,2,4,6,7,9-HxCDD
35:44	3.060e+06	n	2.557e+06	n	1.20	y	5.617e+06	5.617e+06	1.28e+02	y	26.8	
36:02	1.159e+07	n	9.436e+06	n	1.23	y	2.103e+07	2.103e+07	3.76e+02	y	100	
36:10	9.235e+05	n	7.564e+05	n	1.22	y	1.680e+06	1.680e+06	3.34e+01	y	8.01	
36:26	1.473e+05	n	1.110e+05	n	1.33	y	2.583e+05	2.583e+05	4.30e+00	y	1.23	
36:47	7.454e+05	n	5.987e+05	n	1.24	y	1.344e+06	1.344e+06	2.84e+01	y	6.40	1,2,3,4,7,8-HxCDD
36:54	3.309e+06	n	2.696e+06	n	1.23	y	6.005e+06	6.005e+06	1.32e+02	y	29.7	1,2,3,6,7,8-HxCDD
37:06	4.184e+05	n	2.903e+05	n	1.44	n	7.087e+05	6.503e+05	1.47e+01	y	3.10	
37:12	1.536e+06	n	1.231e+06	n	1.25	y	2.767e+06	2.767e+06	5.22e+01	y	12.7	1,2,3,7,8,9-HxCDD
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: HpCDD EMPC Function: 4 Run #: 15 Checkcode: 0245  
 File Name: 090325P2 Sample #: 8 Sample text: P1193\_6679\_011 B1-S37-SS-A-090313 10.15g

Acquired: 26-MAR-09 04:44:41 Processed: 26-MAR-09 08:42:21

Total Conc.: 1416.2 Unnamed Conc.: \* Homolog count: 2 ✓

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
39:33	8.059e+07	n	7.661e+07	n	1.05	y	1.572e+08	1.572e+08	1.54e+03	y	813	1,2,3,4,6,7,9-HpCDD
40:24	5.968e+07	n	5.684e+07	n	1.05	y	1.165e+08	1.165e+08	1.03e+03	y	603	1,2,3,4,6,7,8-HpCDD
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: TCDF EMPC Function: 1 Run #: 15 Checkcode: 0245  
 File Name: 090325P2 Sample #: 8 Sample text: P1193\_6679\_011 B1-S37-SS-A-090313 10.15g

Acquired: 26-MAR-09 04:44:41 Processed: 26-MAR-09 08:42:21

Total Conc.: 41.845 Unnamed Conc.: 32.621 Homolog count: 21 ✓

RT	ml	Resp	mod.	m2	Resp	mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
21:21	2.785e+05	n	3.402e+05	n	0.82	y	6.187e+05	6.187e+05	6.40e+01	y	1.28	1,3,6,8-TCDF
21:54	3.952e+05	n	4.806e+05	n	0.82	y	8.758e+05	8.758e+05	7.83e+01	y	1.82	
22:30	8.699e+05	n	1.112e+06	n	0.78	y	1.982e+06	1.982e+06	1.85e+02	y	4.11	2,4,6,8-TCDF
23:02	9.825e+05	n	1.225e+06	n	0.80	y	2.208e+06	2.208e+06	1.43e+02	y	4.58	
23:26	9.684e+05	n	1.169e+06	n	0.83	y	2.137e+06	2.137e+06	1.55e+02	y	4.43	
23:53	5.861e+05	y	7.666e+05	y	0.76	y	1.353e+06	1.353e+06	1.29e+02	y	2.81	
24:01	1.988e+05	y	2.375e+05	y	0.84	y	4.363e+05	4.363e+05	5.11e+01	y	0.905	
24:11	3.699e+05	y	4.812e+05	y	0.77	y	8.510e+05	8.510e+05	8.96e+01	y	1.77	
24:34	1.793e+05	y	2.431e+05	y	0.74	y	4.224e+05	4.224e+05	3.98e+01	y	0.876	
24:43	2.924e+05	y	4.036e+05	y	0.72	y	6.960e+05	6.960e+05	7.96e+01	y	1.44	
24:52	5.960e+05	y	8.038e+05	y	0.74	y	1.400e+06	1.400e+06	1.46e+02	y	2.90	
24:59	4.656e+05	y	5.635e+05	y	0.83	y	1.029e+06	1.029e+06	9.22e+01	y	2.14	
25:27	6.177e+05	n	7.229e+05	n	0.85	y	1.341e+06	1.341e+06	1.31e+02	y	2.78	
25:44	2.299e+05	n	3.040e+05	n	0.76	y	5.339e+05	5.339e+05	6.43e+01	y	1.11	
25:57	1.675e+05	y	1.755e+05	n	0.95	n	3.430e+05	3.107e+05	2.79e+01	y	0.645	
26:10	2.211e+05	y	2.371e+05	y	0.93	n	4.582e+05	4.196e+05	5.45e+01	y	0.871	
26:16	1.718e+05	y	2.028e+05	y	0.85	y	3.746e+05	3.746e+05	4.65e+01	y	0.777	2,3,4,8-TCDF
26:23	6.372e+05	y	8.327e+05	y	0.77	y	1.470e+06	1.470e+06	1.76e+02	y	3.05	2,3,7,8-TCDF
26:46	6.501e+05	n	8.280e+05	n	0.79	y	1.478e+06	1.478e+06	1.45e+02	y	3.07	
27:01	7.311e+04	n	9.879e+04	n	0.74	y	1.719e+05	1.719e+05	1.83e+01	y	0.357	
27:18	2.406e+04	y	3.604e+04	y	0.67	y	6.010e+04	6.010e+04	9.22e+00	y	0.125	
Totals Results Analytical Perspectives [Form: TOT]												

Totals class: PeCDF EMPC Function: 2 Run #: 15 Checkcode: 0245  
 File Name: 090325P2 Sample #: 8 Sample text: P1193\_6679\_011 B1-S37-SS-A-090313 10.15g

Acquired: 26-MAR-09 04:44:41 Processed: 26-MAR-09 08:42:21

Total Conc.: 40.634 Unnamed Conc.: 32.566 Homolog count: 11 ✓

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
30:09	8.264e+05	n	5.275e+05	n	1.57 y	1.354e+06	1.354e+06	5.68e+01	y	3.31
30:17	4.202e+06	n	2.636e+06	n	1.59 y	6.838e+06	6.838e+06	2.35e+02	y	16.7
30:41	1.986e+05	n	1.210e+05	n	1.64 y	3.195e+05	3.195e+05	1.13e+01	y	0.780
30:55	1.546e+06	n	9.488e+05	n	1.63 y	2.495e+06	2.495e+06	8.51e+01	y	6.09
31:10	3.332e+05	n	2.171e+05	n	1.54 y	5.503e+05	5.503e+05	2.72e+01	y	1.34
31:22	6.432e+05	n	4.176e+05	n	1.54 y	1.061e+06	1.061e+06	5.03e+01	y	2.61 1,2,3,7,8-PeCDF
31:40	7.562e+05	n	4.608e+05	n	1.64 y	1.217e+06	1.217e+06	4.36e+01	y	2.97
32:14	5.720e+04	n	3.224e+04	n	1.77 y	8.943e+04	8.943e+04	5.50e+00	y	0.218
32:22	2.779e+05	n	1.985e+05	n	1.40 y	4.765e+05	4.765e+05	2.21e+01	y	1.16
32:30	1.299e+06	n	8.239e+05	n	1.58 y	2.123e+06	2.123e+06	6.74e+01	y	5.15 2,3,4,7,8-PeCDF
33:35	7.918e+04	n	4.801e+04	n	1.65 y	1.272e+05	1.272e+05	7.84e+00	y	0.311 1,2,3,8,9-PeCDF
Totals Results Analytical Perspectives [Form: TOT]										

Totals class: HxCDF EMPC Function: 3 Run #: 15 Checkcode: 0245  
 File Name: 090325P2 Sample #: 8 Sample text: P1193\_6679\_011 B1-S37-SS-A-090313 10.15g

Acquired: 26-MAR-09 04:44:41 Processed: 26-MAR-09 08:42:21

Total Conc.: 255.48 Unnamed Conc.: 201.396 Homolog count: 11 ✓

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
34:25	4.617e+06	n	3.621e+06	n	1.28 y	8.238e+06	8.238e+06	2.85e+02	y	25.4 1,2,3,4,6,8-HxCDF
34:37	1.547e+07	n	1.206e+07	n	1.28 y	2.753e+07	2.753e+07	9.55e+02	y	84.8
34:51	2.499e+05	n	1.485e+05	n	1.68 n	3.983e+05	3.326e+05	1.04e+01	y	1.02
35:03	7.438e+05	n	6.095e+05	n	1.22 y	1.353e+06	1.353e+06	4.41e+01	y	4.17
35:16	1.937e+07	n	1.537e+07	n	1.26 y	3.474e+07	3.474e+07	1.21e+03	y	107
35:41	5.057e+05	n	3.682e+05	n	1.37 y	8.739e+05	8.739e+05	2.78e+01	y	2.69
35:48	2.213e+06	n	1.738e+06	n	1.27 y	3.950e+06	3.950e+06	1.36e+02	y	11.9 1,2,3,4,7,8-HxCDF
35:57	1.141e+06	n	9.183e+05	n	1.24 y	2.060e+06	2.060e+06	6.50e+01	y	5.77 1,2,3,6,7,8-HxCDF
36:15	3.313e+05	n	2.379e+05	n	1.39 y	5.693e+05	5.693e+05	1.77e+01	y	1.75
36:36	1.594e+06	n	1.269e+06	n	1.26 y	2.863e+06	2.863e+06	9.31e+01	y	8.60 2,3,4,6,7,8-HxCDF
37:37	3.688e+05	n	3.135e+05	n	1.18 y	6.822e+05	6.822e+05	1.94e+01	y	2.46 1,2,3,7,8,9-HxCDF
Totals Results Analytical Perspectives [Form: TOT]										

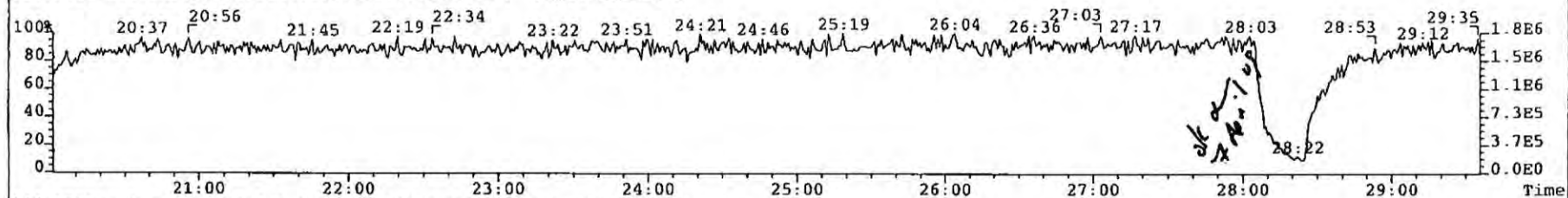
Totals class: HpCDF EMPC Function: 4 Run #: 15 Checkcode: 0245  
 File Name: 090325P2 Sample #: 8 Sample text: P1193\_6679\_011 B1-S37-SS-A-090313 10.15g

Acquired: 26-MAR-09 04:44:41 Processed: 26-MAR-09 08:42:21

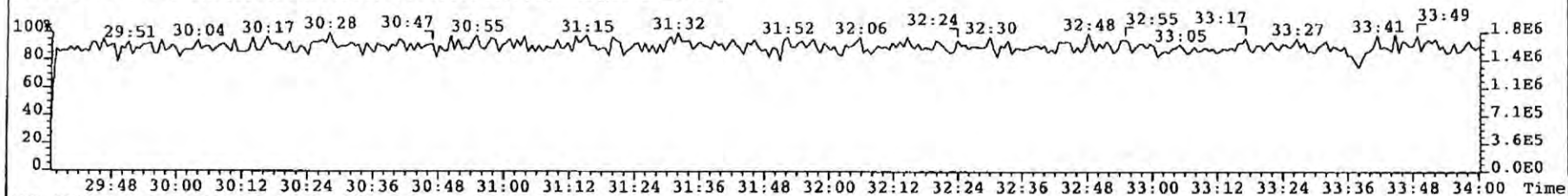
Total Conc.: 554.78 Unnamed Conc.: 342.229 Homolog count: 4 ✓

RT	m1	Resp mod.	m2	Resp mod.	RA	Resp	Adj_Resp	S/N	Conc.	Name
39:13	3.102e+07	n	2.965e+07	n	1.05 y	6.067e+07	6.067e+07	1.38e+03	y	206 1,2,3,4,6,7,8-HpCDF
39:32	9.042e+05	n	7.810e+05	n	1.16 y	1.685e+06	1.685e+06	3.34e+01	y	6.36
39:43	4.569e+07	n	4.338e+07	n	1.05 y	8.906e+07	8.906e+07	1.99e+03	y	336
40:58	8.594e+05	n	7.532e+05	n	1.14 y	1.613e+06	1.613e+06	3.36e+01	y	6.86 1,2,3,4,7,8,9-HpCDF

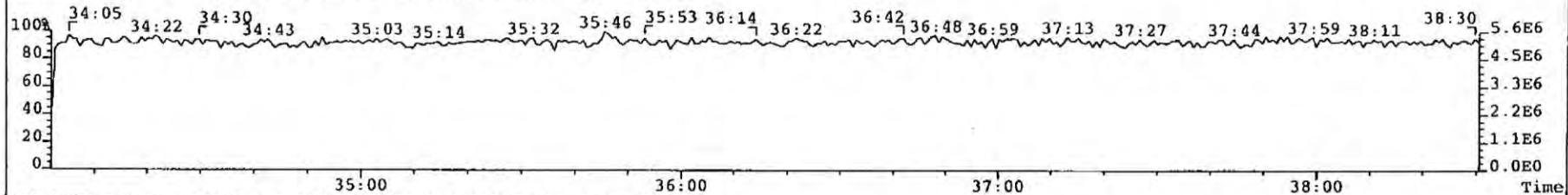
File: 090325P2 Acq: 26-MAR-2009 04:44:41 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 8 Text: P1193\_6679\_011 B1-S37-SS-A-090313 10.15g Vial# 28 File Text: AP DB5  
316.9824 S:8 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



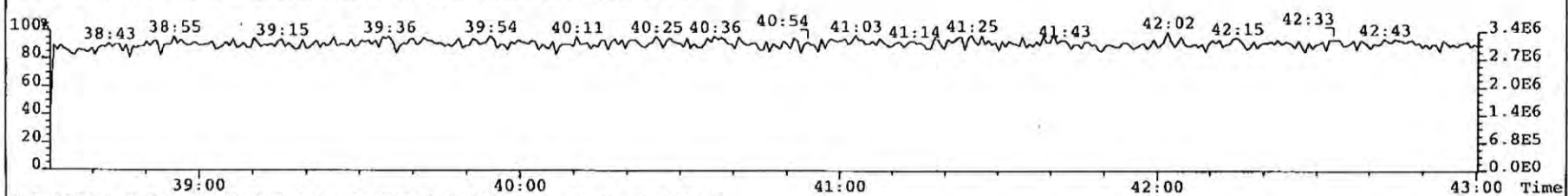
366.9792 S:8 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



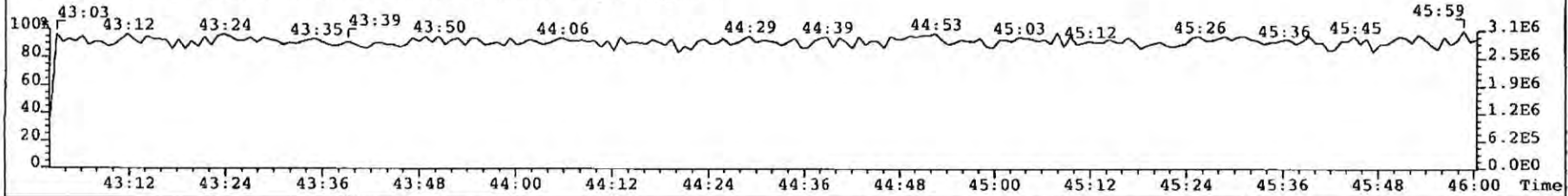
380.9760 S:8 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



430.9728 S:8 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

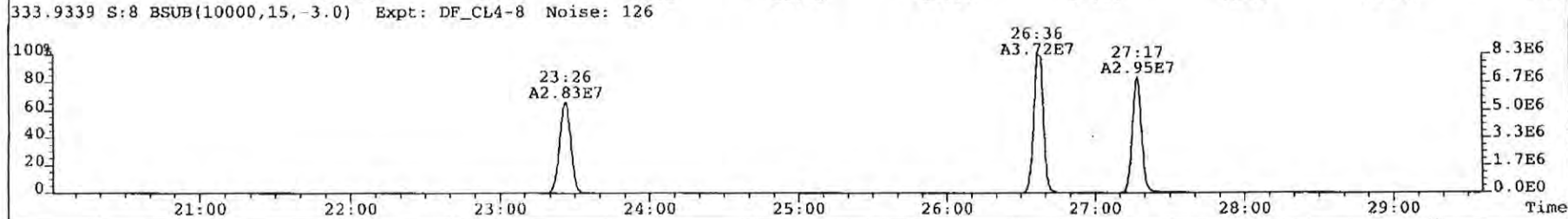
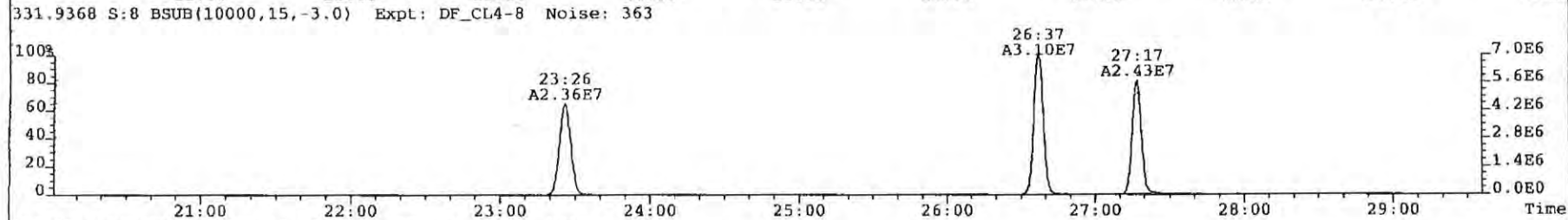
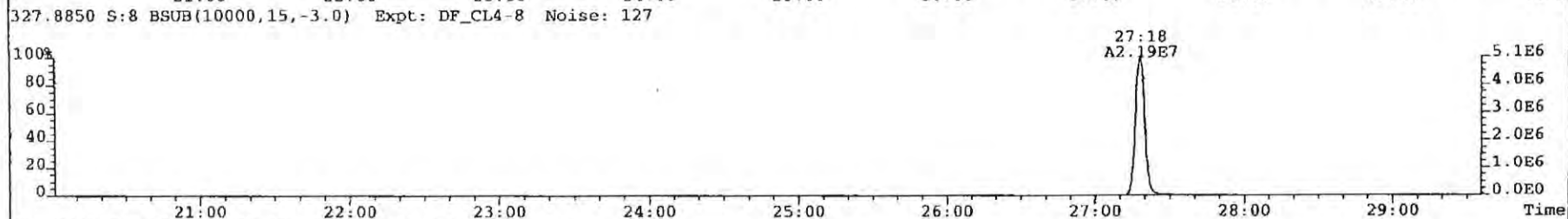
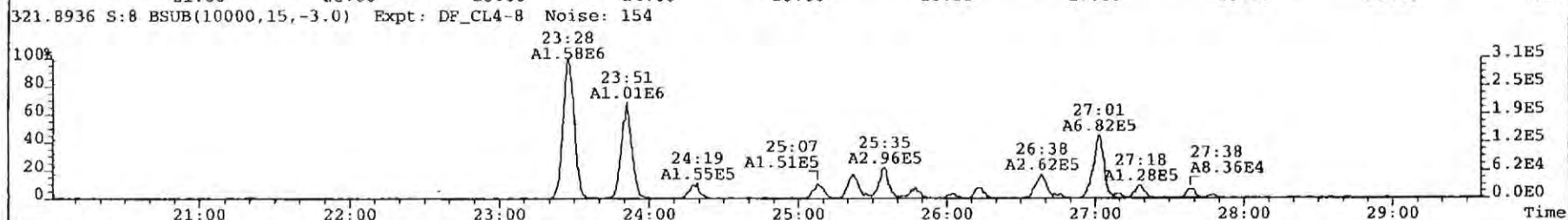
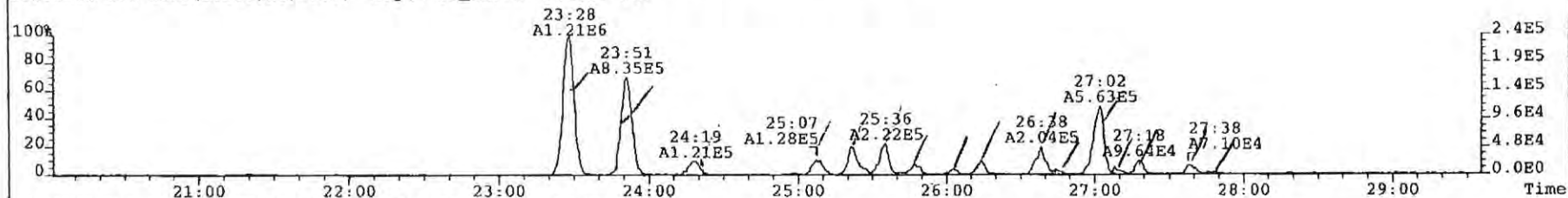


454.9728 S:8 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

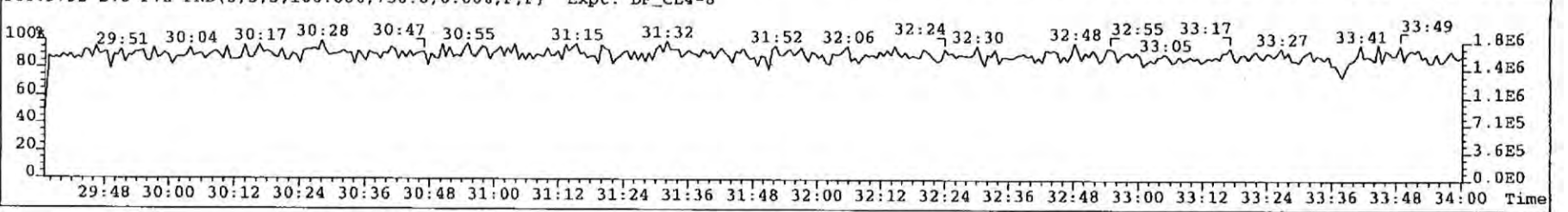
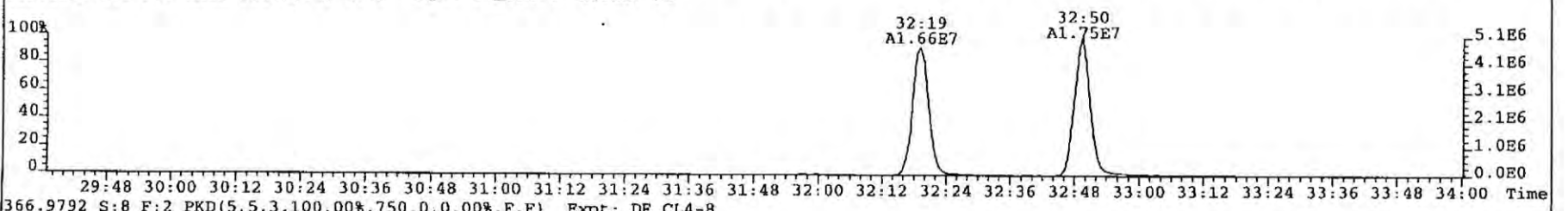
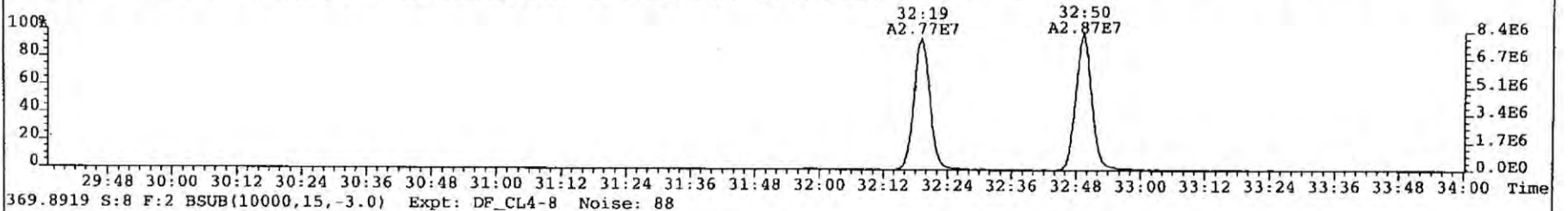
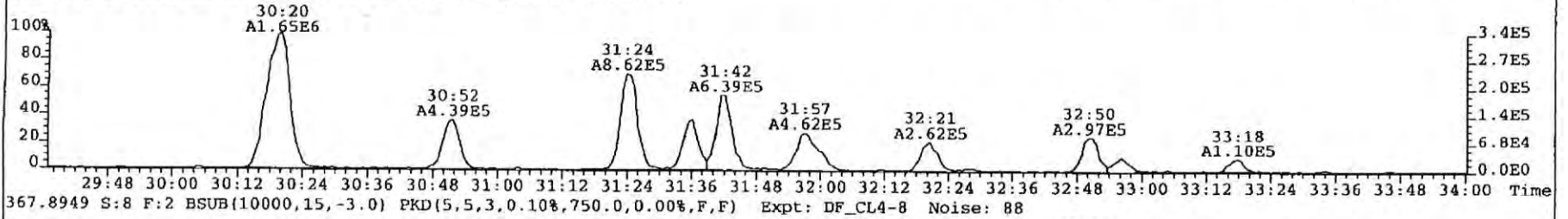
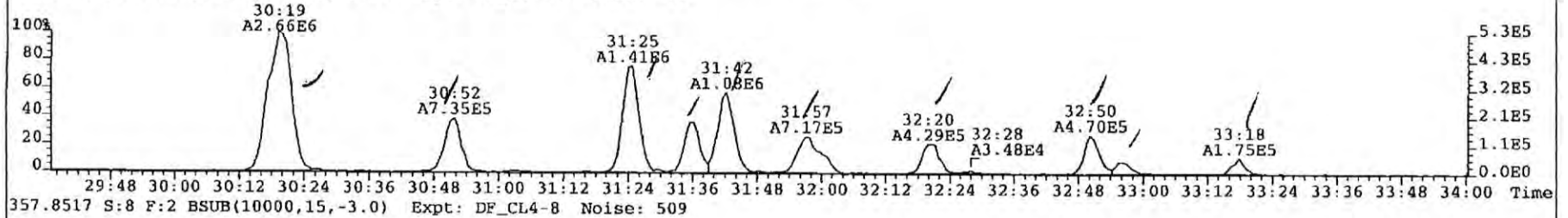




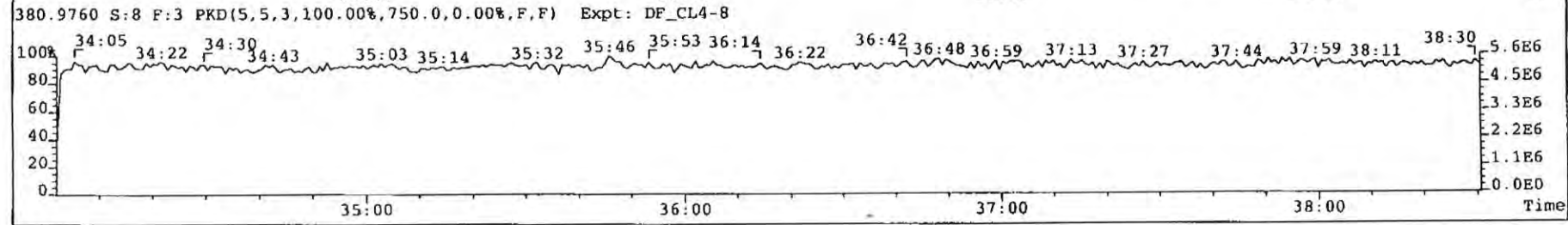
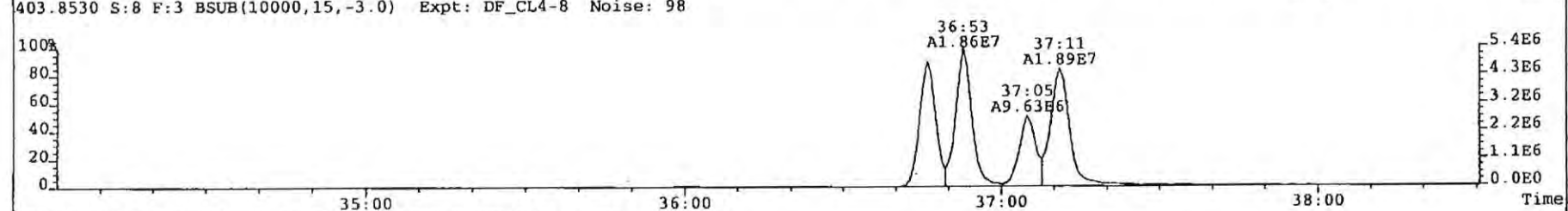
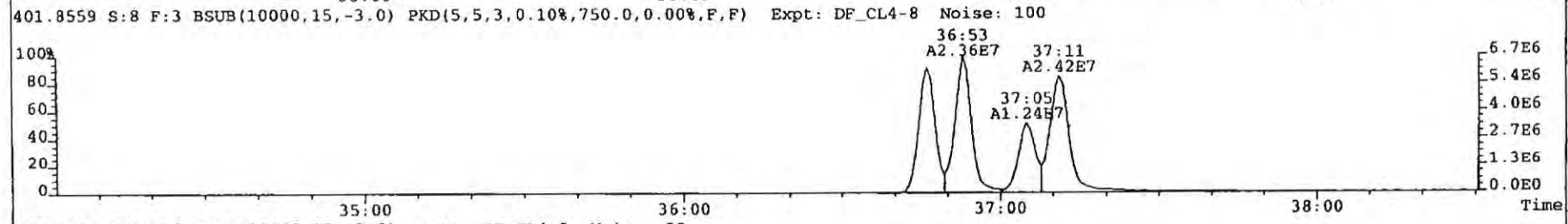
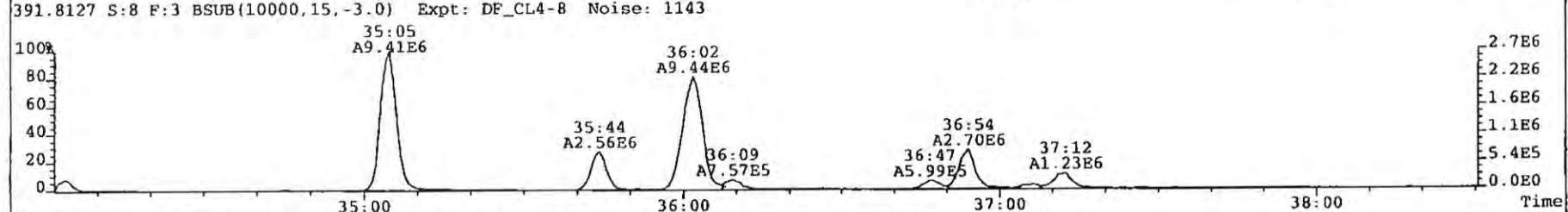
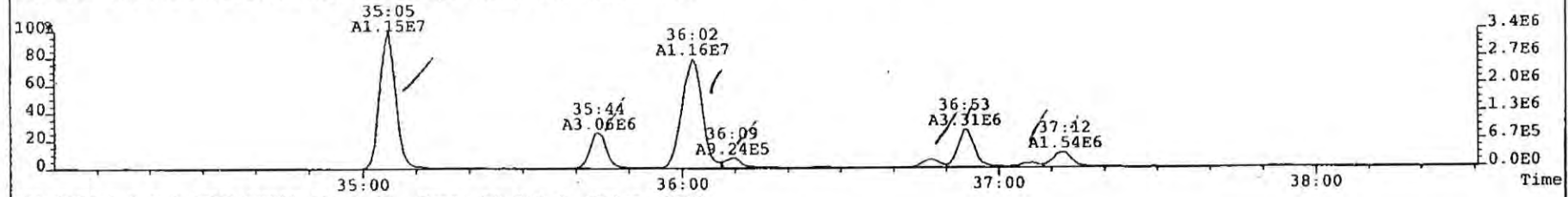
File: 090325P2 Acq: 26-MAR-2009 04:44:41 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 8 Text: P1193\_6679\_011 B1-S37-SS-A-090313 10.15g Vial# 28 File Text: AP DB5  
319.8965 S:8 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 147



File: 090325P2 Acq: 26-MAR-2009 04:44:41 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 8 Text: P1193\_6679\_011 B1-S37-SS-A-090313 10.15g Vial# 28 File Text: AP DB5  
355.8546 S:8 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 700

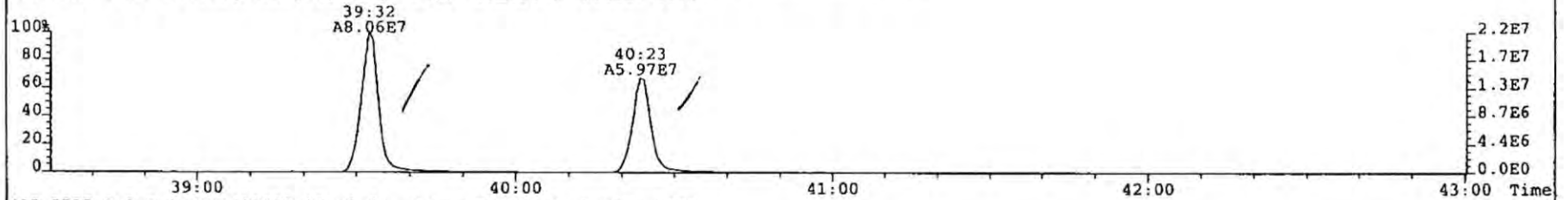


File: 090325P2 Acq: 26-MAR-2009 04:44:41 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 8 Text: P1193\_6679\_011 B1-S37-SS-A-090313 10.15g Vial# 28 File Text: AP DB5  
389.8156 S:8 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 983

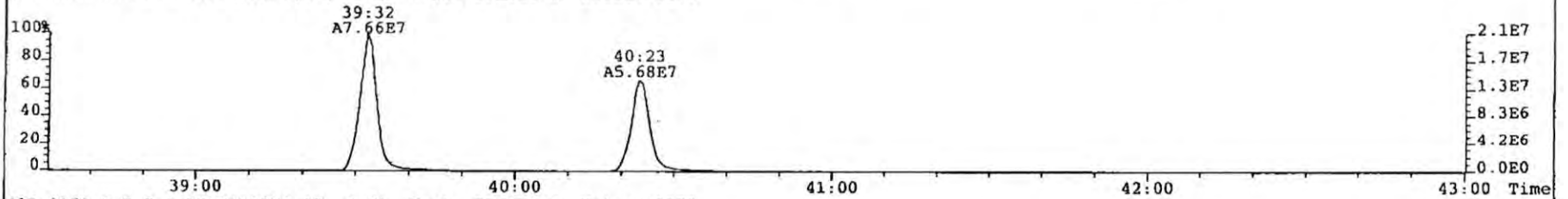




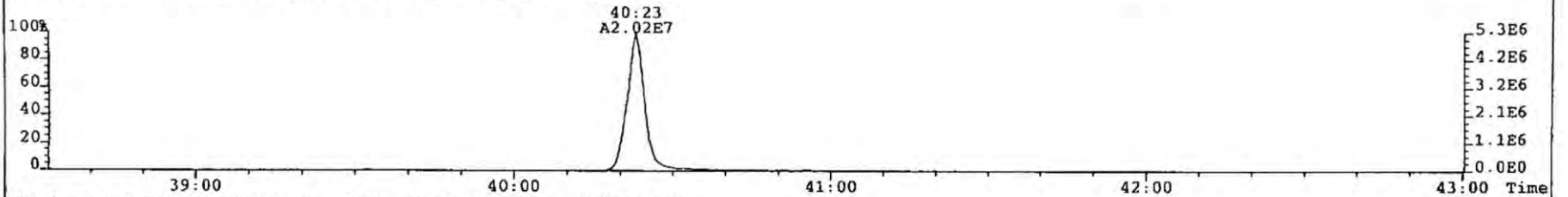
File: 090325P2 Acq: 26-MAR-2009 04:44:41 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 8 Text: P1193\_6679\_011 B1-S37-SS-A-090313 10.15g Vial# 28 File Text: AP DB5  
423.7767 S:8 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 3576



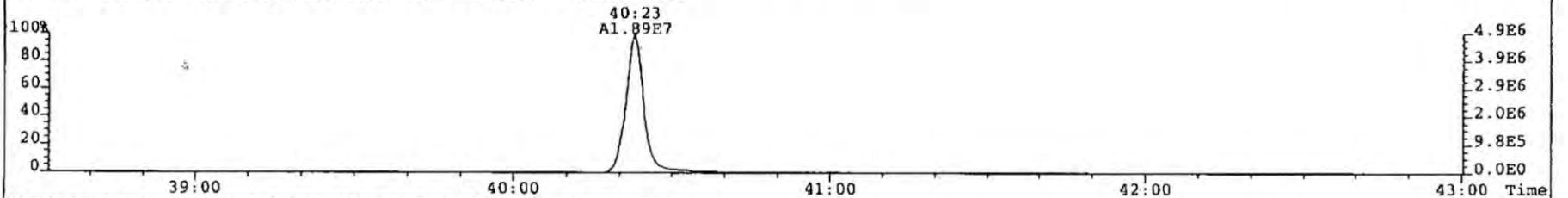
425.7737 S:8 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 2877



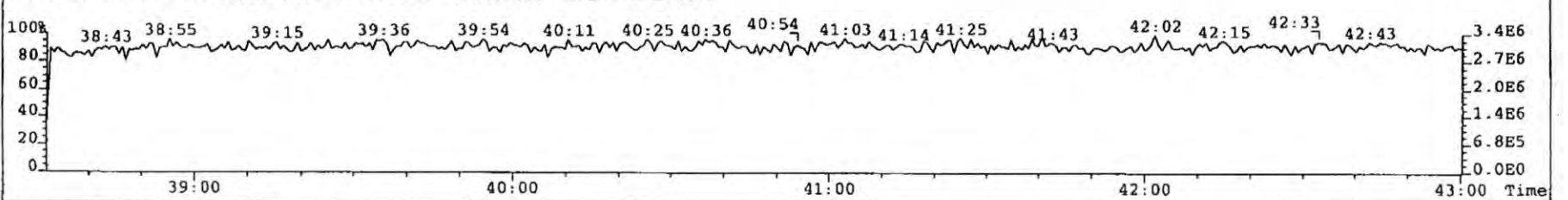
435.8169 S:8 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1572



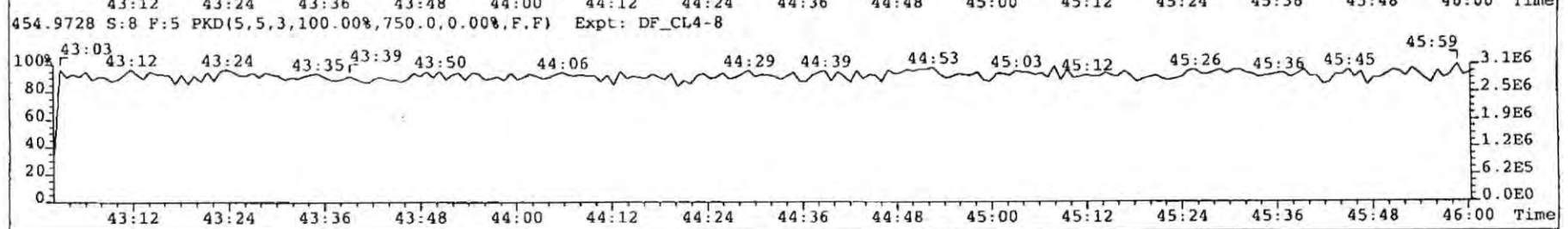
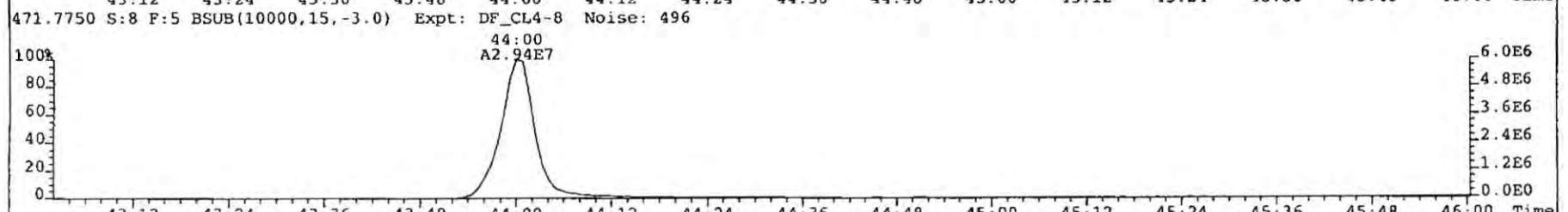
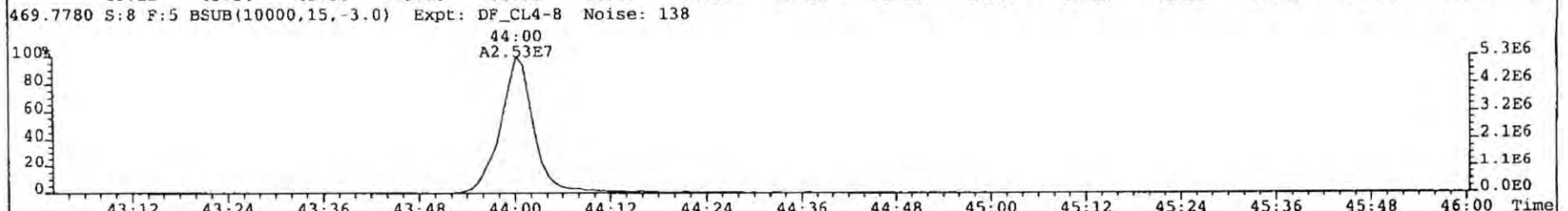
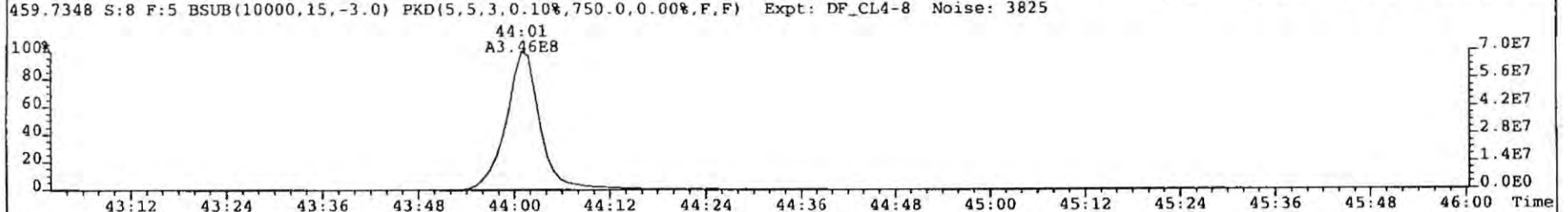
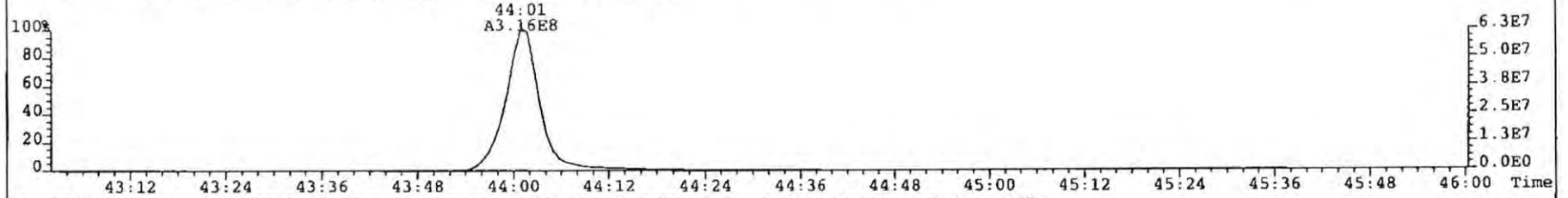
437.8140 S:8 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 536



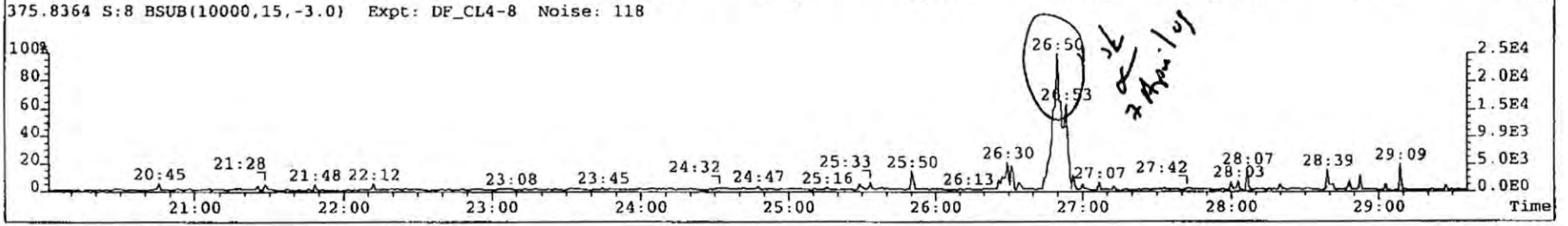
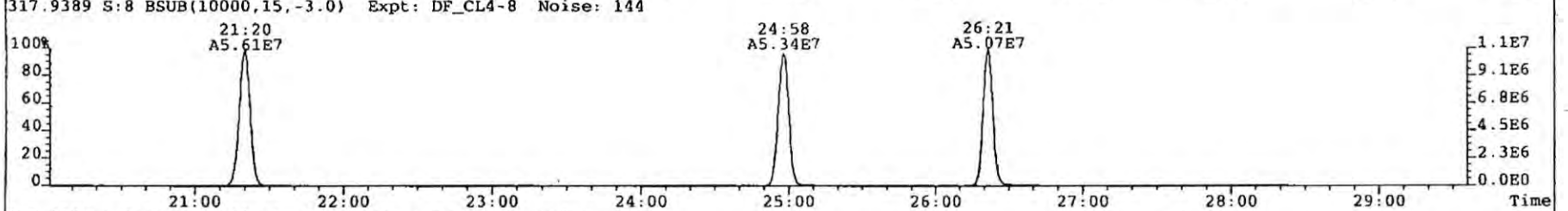
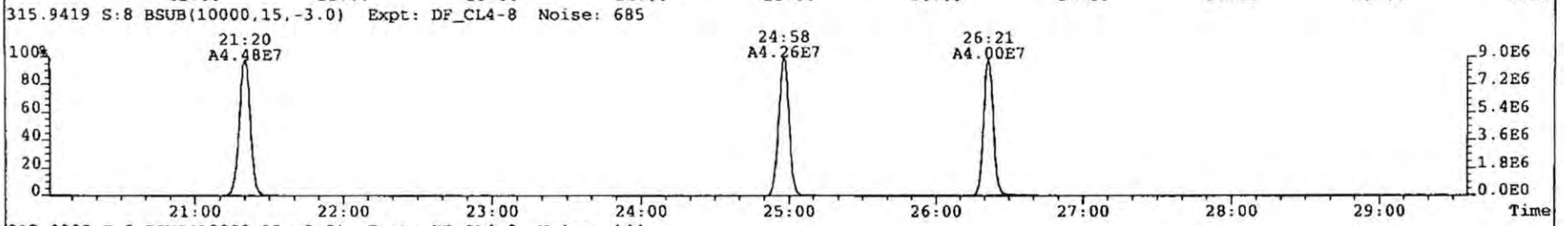
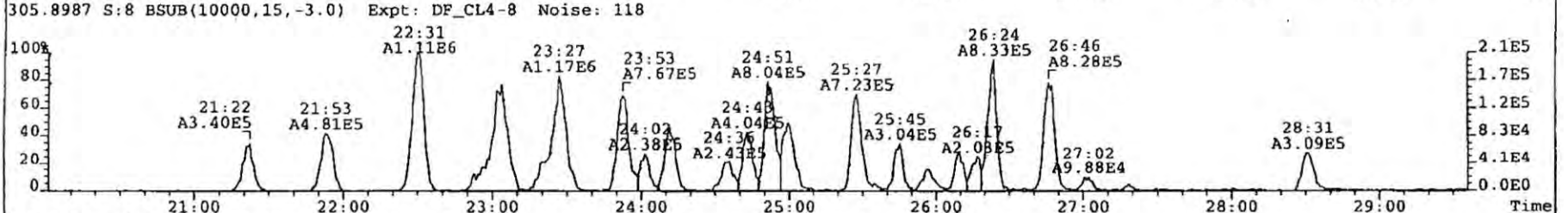
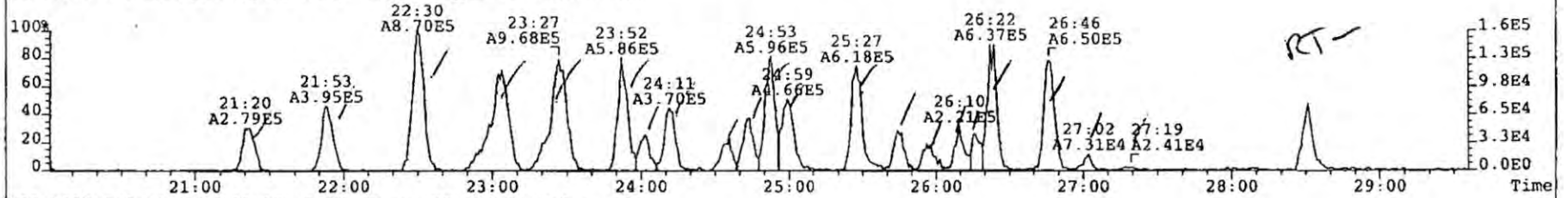
430.9728 S:8 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



File: 090325P2 Acq: 26-MAR-2009 04:44:41 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 8 Text: P1193\_6679\_011 B1-S37-SS-A-090313 10.15g Vial# 28 File Text: AP DB5  
457.7377 S:8 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 2421

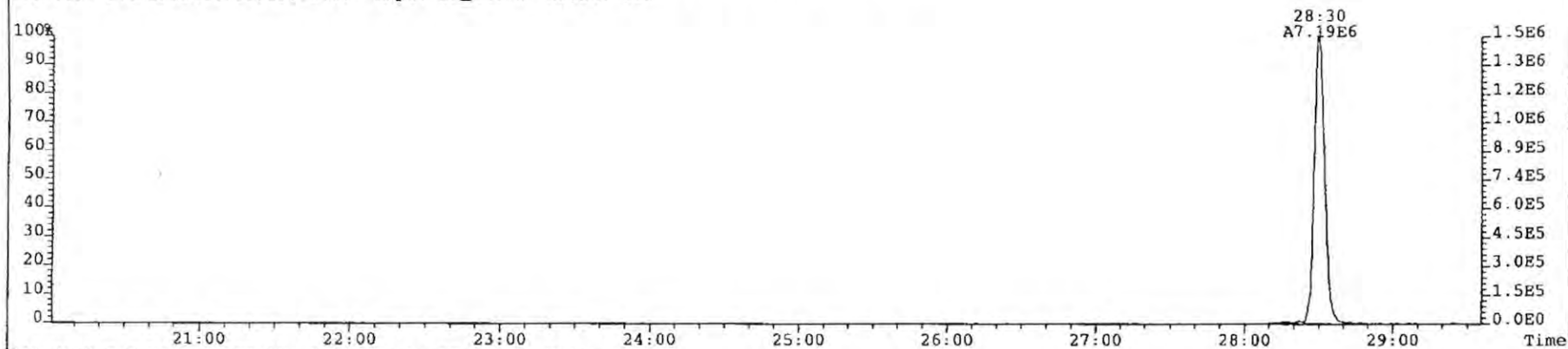


File: 090325P2 Acq: 26-MAR-2009 04:44:41 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 8 Text: P1193\_6679\_011 B1-S37-SS-A-090313 10.15g Vial# 28 File Text: AP DB5  
303.9016 S:8 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 102

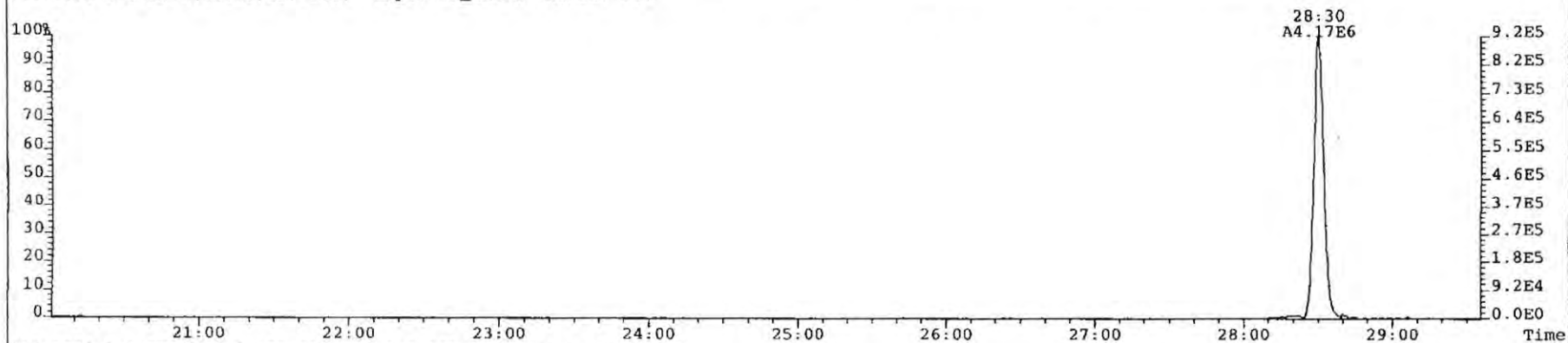




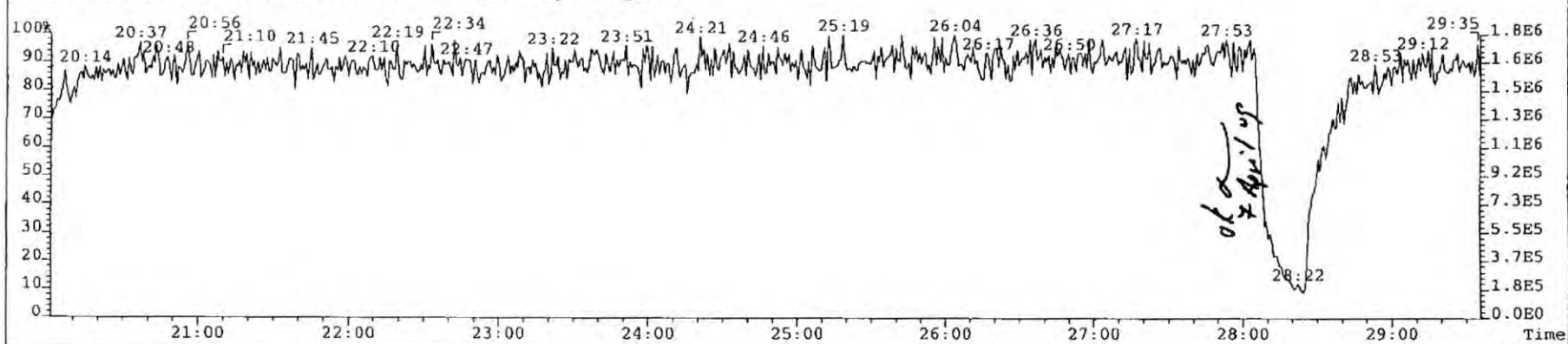
File: 090325P2 Acq: 26-MAR-2009 04:44:41 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 8 Text: P1193\_6679\_011 B1-S37-SS-A-090313 10.15g Vial# 28 File Text: AP DB5  
339.8597 S:8 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 116



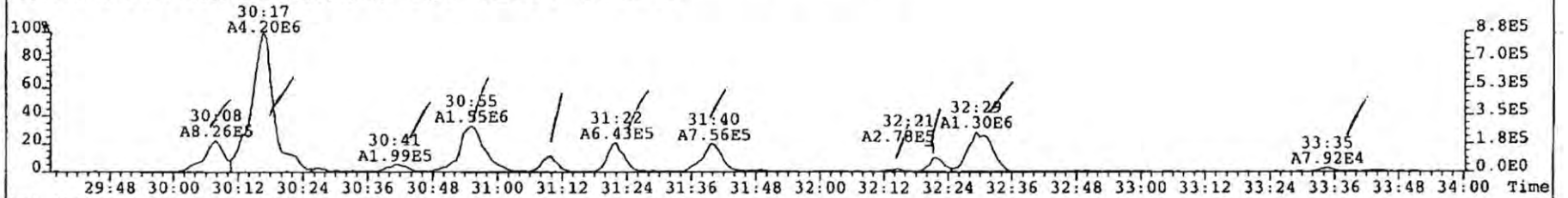
341.8568 S:8 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 116



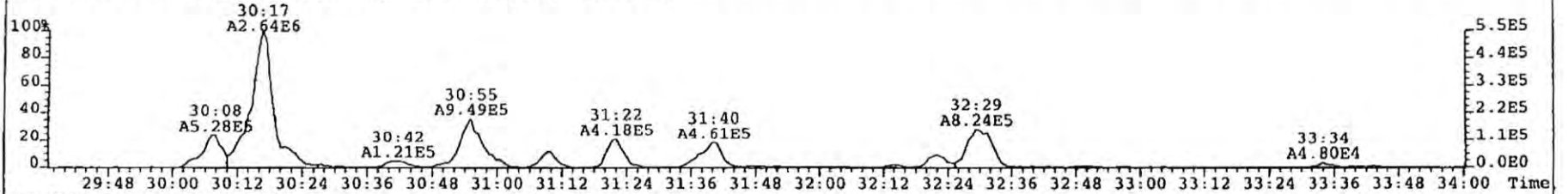
316.9824 S:8 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



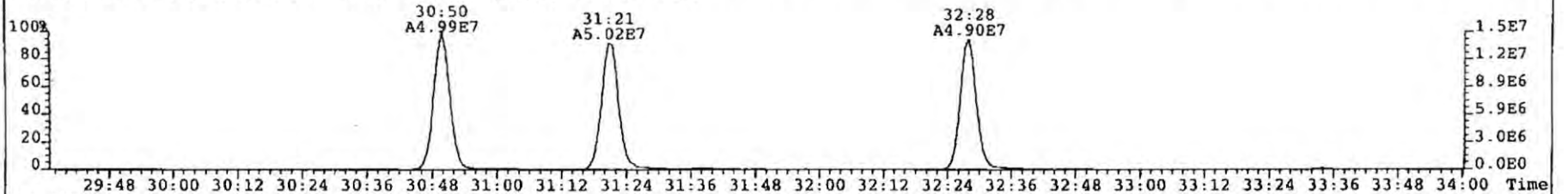
File: 090325P2 Acq: 26-MAR-2009 04:44:41 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 8 Text: P1193\_6679\_011 B1-S37-SS-A-090313 10.15g Vial# 28 File Text: AP DB5  
339.8597 S:8 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 504



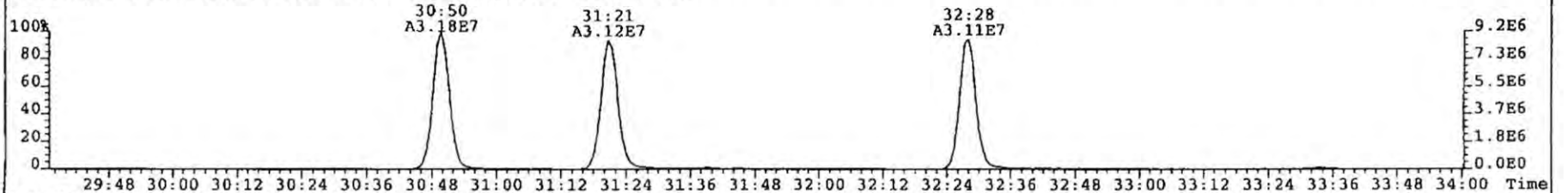
341.8568 S:8 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 381



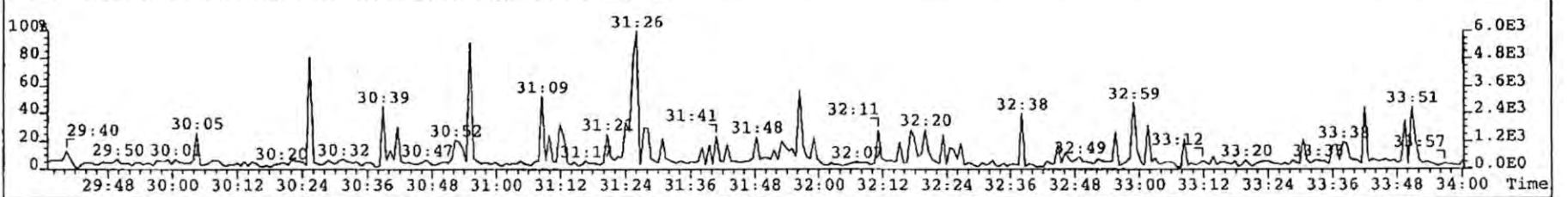
351.9000 S:8 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 2801



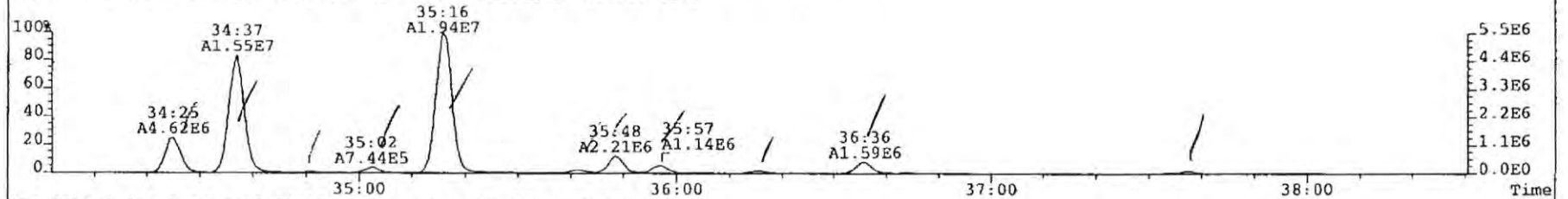
353.8970 S:8 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 2417



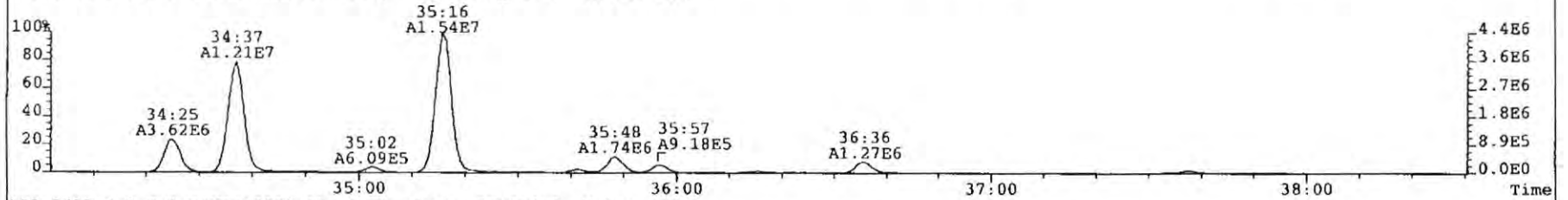
409.7974 S:8 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 91



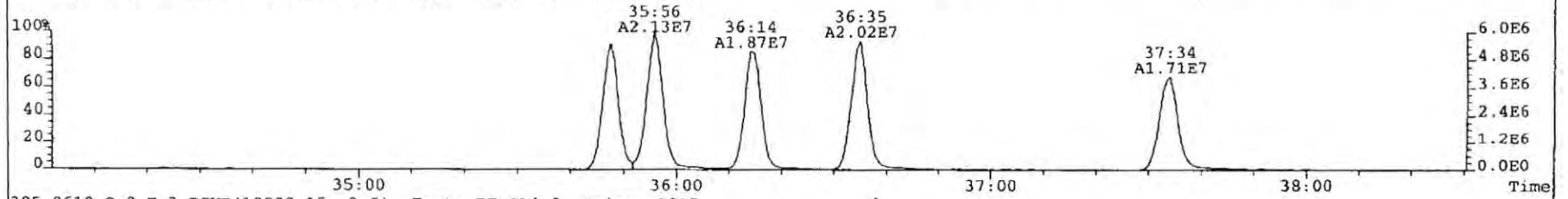
File: 090325P2 Acq: 26-MAR-2009 04:44:41 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 8 Text: P1193\_6679\_011 B1-S37-SS-A-090313 10.15g Vial# 28 File Text: AP DB5  
373.8207 S:8 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1048



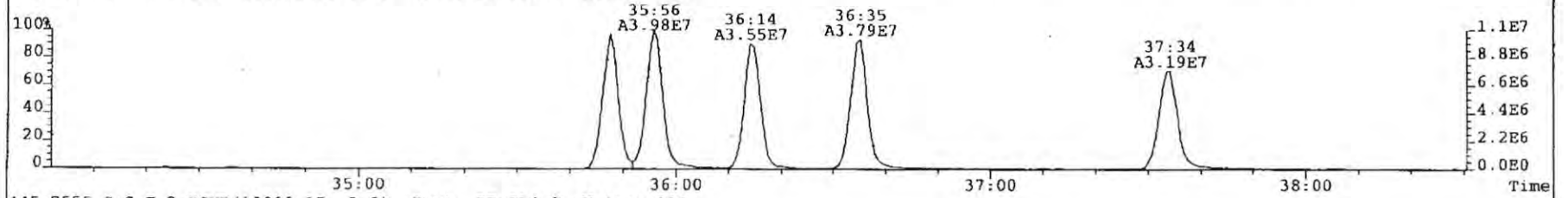
375.8178 S:8 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 938



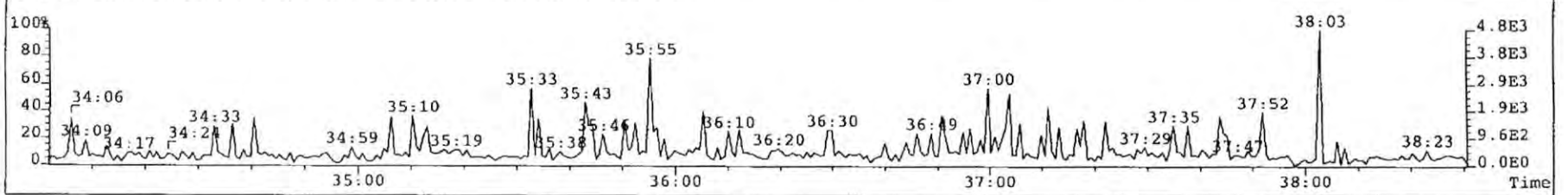
383.8639 S:8 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1895



385.8610 S:8 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1015

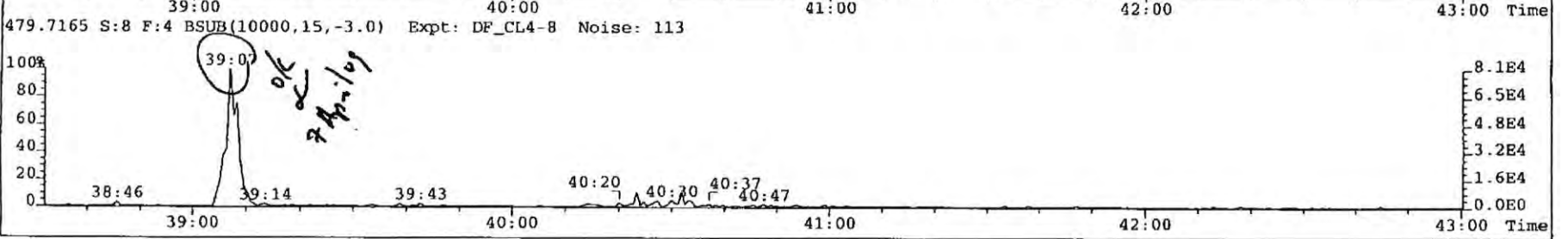
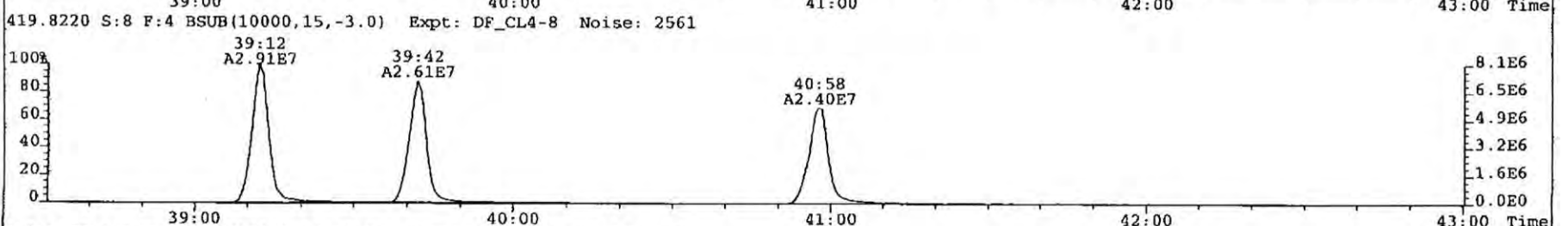
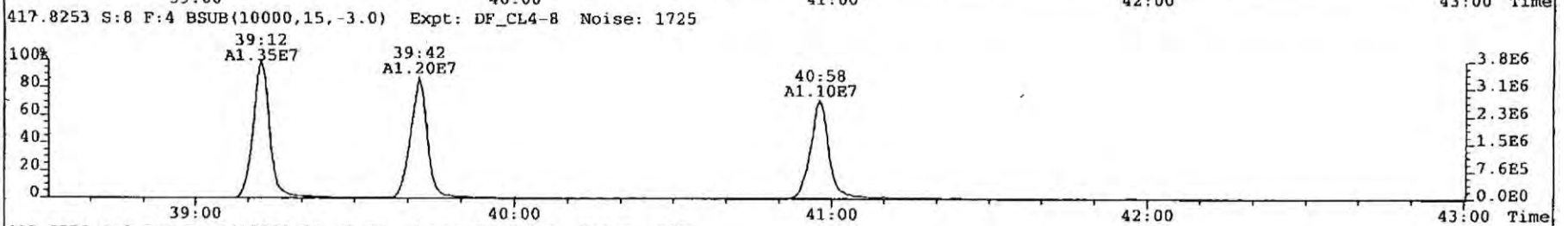
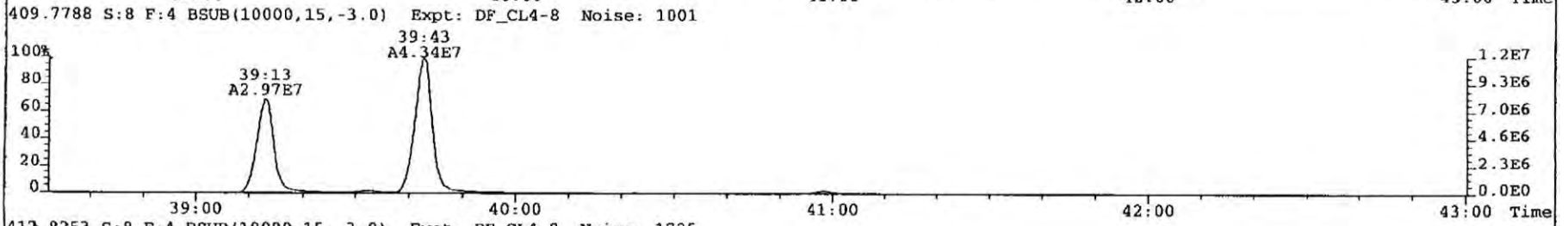
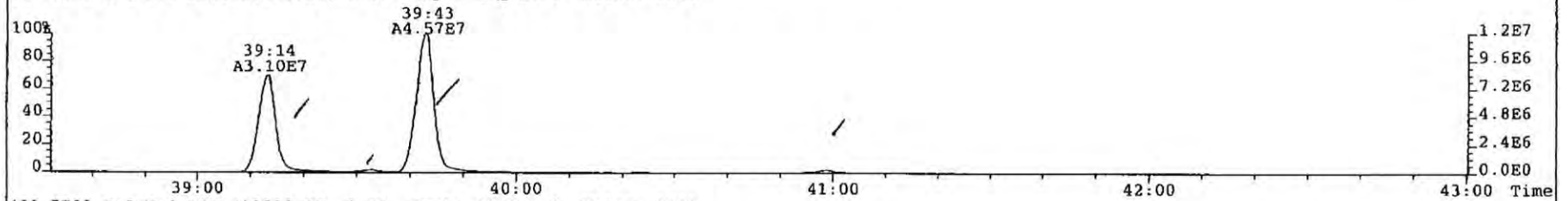


445.7555 S:8 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 114

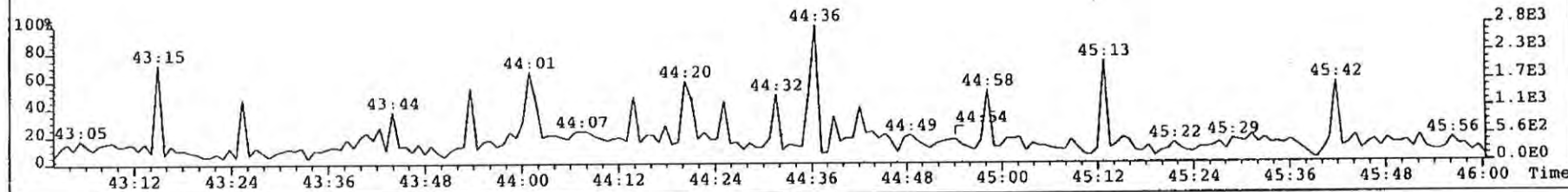
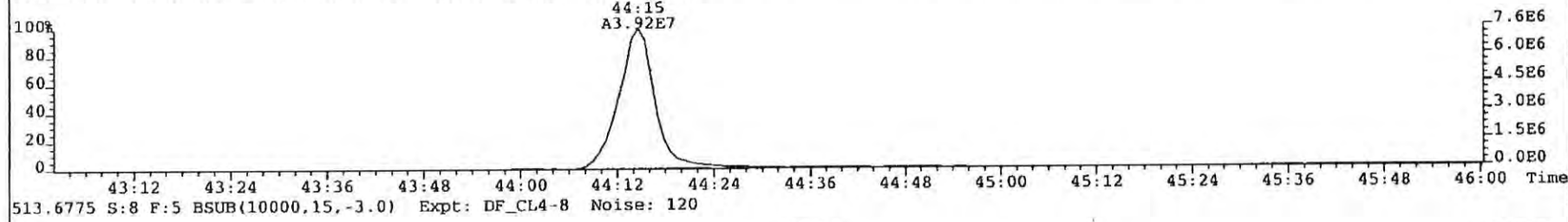
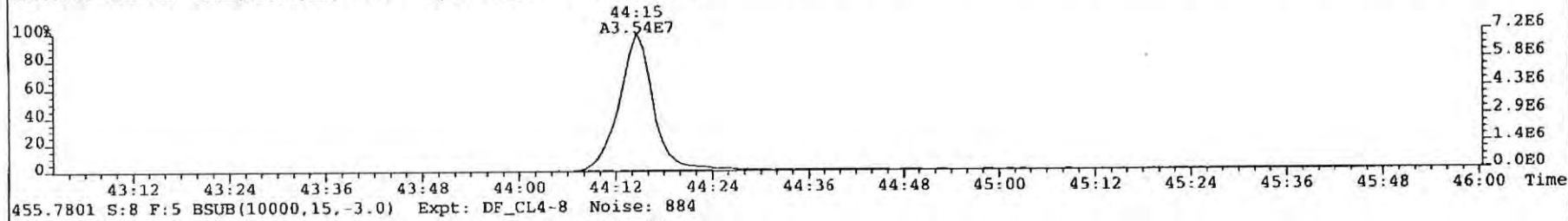
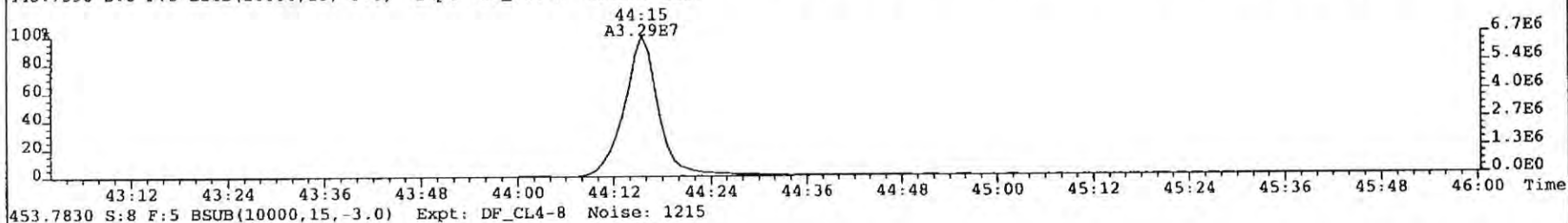
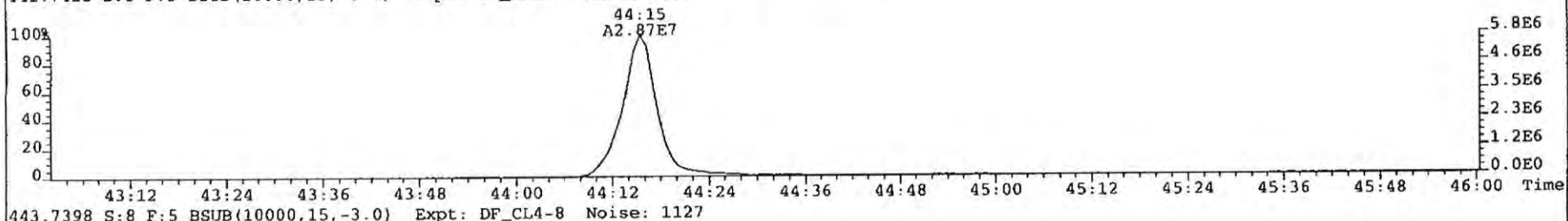




File: 090325P2 Acq: 26-MAR-2009 04:44:41 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 8 Text: P1193\_6679\_011 B1-S37-SS-A-090313 10.15g Vial# 28 File Text: AP DB5  
407.7818 S:8 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1248



File: 090325P2 Acq: 26-MAR-2009 04:44:41 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 8 Text: P1193\_6679\_011 B1-S37-SS-A-090313 10.15g Vial# 28 File Text: AP DB5  
441.7428 S:8 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 887



FORM 4A  
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Analytical Perspectives Episode No.:

Contract No.: SAS No.:

Initial Calibration: MM1\_DF\_07012007A\_25DE\*

GC Column ID: DB-5

VER Data Filename: 090325P1 S#1 Analysis Date: 25-MAR-09 Time: 14:19:58 ✓

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)
2,3,7,8-TCDD	M/M+2	0.78	0.65-0.89	y	10.2	7.8 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	1.64	1.32-1.78	y	52.0	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	52.4	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	51.0	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.21	1.05-1.43	y	50.3	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	0.88	0.76-1.02	y	101.5	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.78	0.65-0.89	y	10.2	8.4 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	49.7	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.61	1.32-1.78	y	49.9	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	y	51.6	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.23	1.05-1.43	y	51.1	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	49.7	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.27	1.05-1.43	y	51.9	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.04	0.88-1.20	y	51.8	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.05	0.88-1.20	y	52.3	43.0 - 58.0
OCDF	M+2/M+4	0.93	0.76-1.02	y	102.0	63.0 - 159.0

Analyst: MM

Date: 02 April 09

- (1) See Table 9, 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.

MM  
7 April 09



FORM 4B  
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Analytical Perspectives Episode No.:

Contract No.: SAS No.:

Initial Calibration: MM1\_DF\_07012007A\_25DE» ✓

GC Column ID: DB-5

VER Data Filename: 090325P1 S#1 Analysis Date: 25-MAR-09 Time: 14:19:58 ✓

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	0.82	0.65-0.89	y	102.5	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.64	1.32-1.78	y	94.8	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	93.8	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	103.8	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.29	1.05-1.43	y	106.1	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88-1.20	y	99.3	72.0 - 138.0
13C-OCDD	M+2/M+4	0.84	0.76-1.02	y	177.5	96.0 - 415.0
13C-2,3,7,8-TCDF	M/M+2	0.80	0.65-0.89	y	98.9	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	y	93.3	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.57	1.32-1.78	y	94.0	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M+2/M+4	0.53	0.43-0.59	y	92.8	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M+2/M+4	0.53	0.43-0.59	y	98.5	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M+2/M+4	0.54	0.43-0.59	y	100.2	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M+2/M+4	0.54	0.43-0.59	y	97.3	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.46	0.37-0.51	y	95.6	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.46	0.37-0.51	y	93.7	77.0 - 129.0
13C-OCDF	M+2/M+4	0.91	0.76-1.02	y	181.8	96.0 - 415.0
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					10.2	7.9 - 12.7
13C-1,2,3,4,7-PeCDD	M+2/M+4	1.62	1.32-1.78	y	89.5	70.0 - 130.0
13C-1,2,3,4,6-PeCDF	M+2/M+4	1.57	1.32-1.78	y	93.2	70.0 - 130.0
13C-1,2,3,4,6,9-HxCDF	M+2/M+4	0.53	0.43-0.59	y	97.4	70.0 - 130.0
13C-1,2,3,4,6,8,9-HpCDF	M+2/M+4	0.46	0.37-0.51	y	96.3	70.0 - 130.0

Analyst: MI

Date: 02/04/09

- (1) See Table 8, Method 1613, for m/z specifications.
- (2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.
- (3) Contract-required concentration range, as specified in Table 6, Method 1613
- (4) No ion abundance ratio; report concentration found.

13/8290 Sample Summary

Analytical Perspectives

[Form: DF]

Client ID: SIL7-25-4  
 Lab ID: CS3  
 Sample text: CS3 SIL7-25-4

Filename: 090325P1  
 GC column ID: db-5

S: 1 Vial: 8 Acq: 25-MAR-09 14:19:58  
 Cal: MM1\_DF\_07012007A\_25DEC08Wt/Vol: 1.000  
 Stds: JS (split adj.): 100 CS/SS: 10.0 ES: 100

*37 Cl-2,3,7,8-TCDD concentration 7 Apr 09*

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	7.52e+06	0.78 y	27:19	1.08	10.2	522	2.5	0.0145	-
Ax	1,2,3,7,8-PeCDD	2.76e+07	1.64 y	32:51	1.00	52.0	3057	2.5	0.142	-
Ax	1,2,3,4,7,8-HxCDD	2.35e+07	1.23 y	36:47	1.08	52.4	8125	2.5	0.378	-
Ax	1,2,3,6,7,8-HxCDD	2.50e+07	1.23 y	36:54	0.94	51.0	8125	2.5	0.398	-
Ax	1,2,3,7,8,9-HxCDD	2.62e+07	1.21 y	37:13	0.99	50.3	8125	2.5	0.429	-
Ax	1,2,3,4,6,7,8-HpCDD	1.90e+07	1.05 y	40:24	0.97	49.1	3530	2.5	0.208	-
Ax	OCDD	2.57e+07	0.88 y	44:01	1.06	101	4741	2.5	0.468	-
Ax2	OCDD-a	1.48e+06	2.70 y	44:00	0.06	98.2	1688	2.5	2.79	-
Ax	2,3,7,8-TCDF	1.09e+07	0.78 y	26:23	1.05	10.2	2086	2.5	0.0392	-
Ax	1,2,3,7,8-PeCDF	4.22e+07	1.58 y	31:21	0.98	49.7	6694	2.5	0.201	-
Ax	2,3,4,7,8-PeCDF	4.54e+07	1.61 y	32:29	1.01	49.9	6694	2.5	0.169	-
Ax	1,2,3,4,7,8-HxCDF	3.51e+07	1.26 y	35:49	1.22	51.6	16037	2.5	0.329	-
Ax	1,2,3,6,7,8-HxCDF	4.19e+07	1.23 y	35:57	1.15	51.1	16037	2.5	0.292	-
Ax	2,3,4,6,7,8-HxCDF	3.70e+07	1.24 y	36:36	1.13	49.7	16037	2.5	0.341	-
Ax	1,2,3,7,8,9-HxCDF	3.22e+07	1.27 y	37:35	1.12	51.9	16037	2.5	0.447	-
Ax	1,2,3,4,6,7,8-HpCDF	3.20e+07	1.04 y	39:13	1.37	51.8	5681	2.5	0.131	-
Ax	1,2,3,4,7,8,9-HpCDF	2.43e+07	1.05 y	40:59	1.32	52.3	5681	2.5	0.207	-
Ax	OCDF	3.69e+07	0.93 y	44:16	0.94	102	9437	2.5	0.689	-
Ax2	OCDF-a	2.02e+06	2.73 y	44:16	0.05	99.4	1882	2.5	2.44	-
ES	13C-2,3,7,8-TCDD	6.83e+07	0.82 y	27:17	0.99	102	1533	2.5	0.0437	102
ES	13C-1,2,3,7,8-PeCDD	5.31e+07	1.64 y	32:50	0.83	94.8	9547	2.5	0.324	94.8
ES	13C-1,2,3,4,7,8-HxCDD	4.14e+07	1.28 y	36:46	1.08	93.8	18693	2.5	0.900	93.8
ES	13C-1,2,3,6,7,8-HxCDD	5.19e+07	1.27 y	36:53	1.23	104	18693	2.5	0.796	104
ES	13C-1,2,3,7,8,9-HxCDD	5.25e+07	1.29 y	37:12	1.21	106	18693	2.5	0.806	106
ES	13C-1,2,3,4,6,7,8-HpCDD	3.98e+07	1.05 y	40:24	0.98	99.3	6580	2.5	0.349	99.3
ES	13C-OCDD	4.78e+07	0.84 y	44:00	0.66	177	10043	2.5	0.794	88.7
ES	13C-2,3,7,8-TCDF	1.02e+08	0.80 y	26:22	0.96	98.9	551	2.5	0.0114	98.9
ES	13C-1,2,3,7,8-PeCDF	8.61e+07	1.59 y	31:20	0.85	93.3	7735	2.5	0.179	93.3
ES	13C-2,3,4,7,8-PeCDF	8.99e+07	1.57 y	32:28	0.88	94.0	7735	2.5	0.173	94.0
ES	13C-1,2,3,4,7,8-HxCDF	5.58e+07	0.53 y	35:47	1.47	92.8	40035	2.5	1.42	92.8
ES	13C-1,2,3,6,7,8-HxCDF	7.13e+07	0.53 y	35:56	1.78	98.5	40035	2.5	1.18	98.5
ES	13C-2,3,4,6,7,8-HxCDF	6.58e+07	0.54 y	36:35	1.61	100	40035	2.5	1.30	100
ES	13C-1,2,3,7,8,9-HxCDF	5.57e+07	0.54 y	37:35	1.40	97.5	40035	2.5	1.49	97.5
ES	13C-1,2,3,4,6,7,8-HpCDF	4.52e+07	0.46 y	39:13	1.16	95.6	14845	2.5	0.667	95.6
ES	13C-1,2,3,4,7,8,9-HpCDF	3.52e+07	0.46 y	40:58	0.92	93.7	14845	2.5	0.841	93.7
ES	13C-OCDF	7.69e+07	0.91 y	44:15	1.04	182	14488	2.5	0.728	90.9
CS	37Cl-2,3,7,8-TCDD	6.86e+06		27:19	0.99	10.3			0.837	103
CS	13C-1,2,3,4,7-PeCDD	4.62e+07	1.62 y	32:20	0.77	89.5	9547	2.5	0.351	89.5
CS	13C-1,2,3,4,6-PeCDF	8.00e+07	1.57 y	30:48	0.79	93.2	7735	2.5	0.192	93.2
CS	13C-1,2,3,4,6,9-HxCDF	5.62e+07	0.53 y	36:15	1.41	97.4	40035	2.5	1.48	97.4
CS	13C-1,2,3,4,6,8,9-HpCDF	3.57e+07	0.46 y	39:42	0.91	96.3	14845	2.5	0.851	96.3
NA	n/a	*	* n	NotF>	Div0	*	290	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	6.71e+07	0.81 y	26:37	-	191	1533	2.5	-	-
JS	13C-1,2,3,4-TCDF	1.08e+08	0.77 y	24:58	-	195	551	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	2.04e+07	1.29 y	37:05	-	93.7	1225	2.5	-	-

Analyst: *[Signature]*  
 Date: *[Signature]*

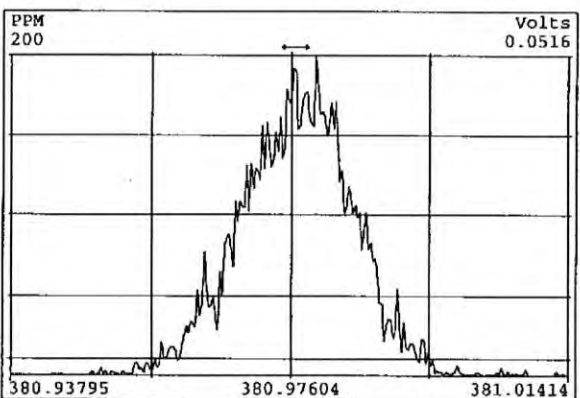
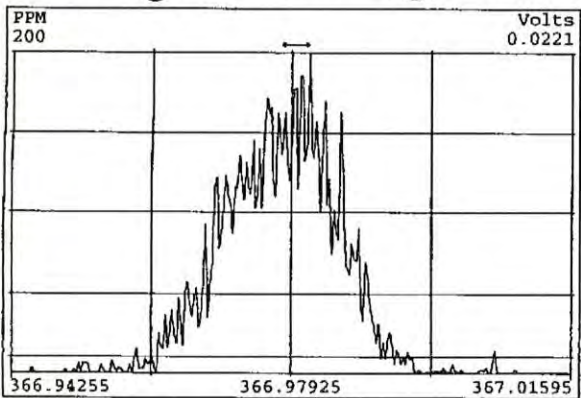
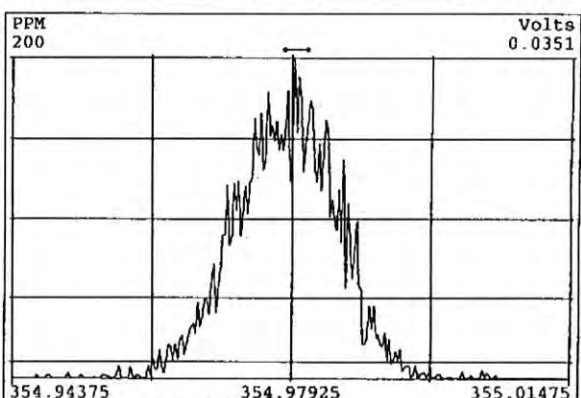
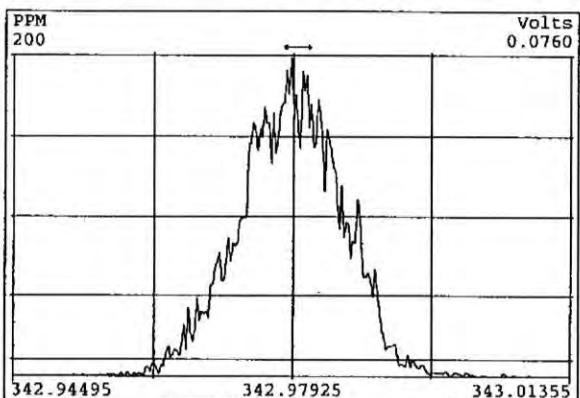
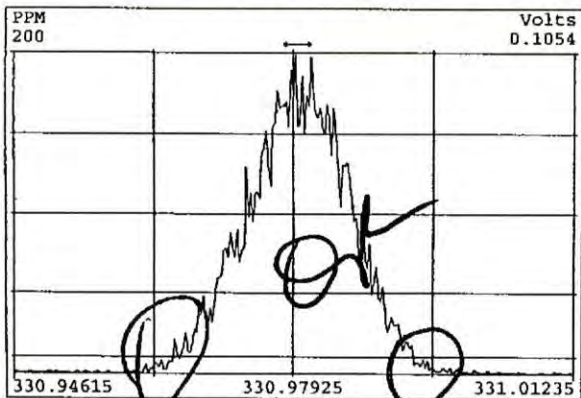
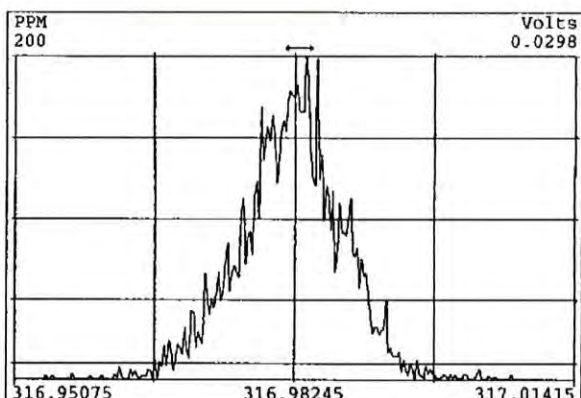
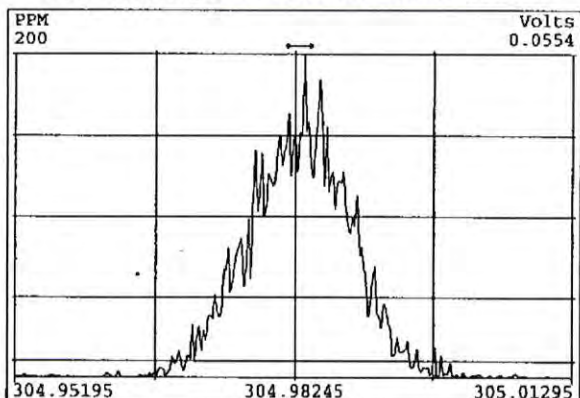
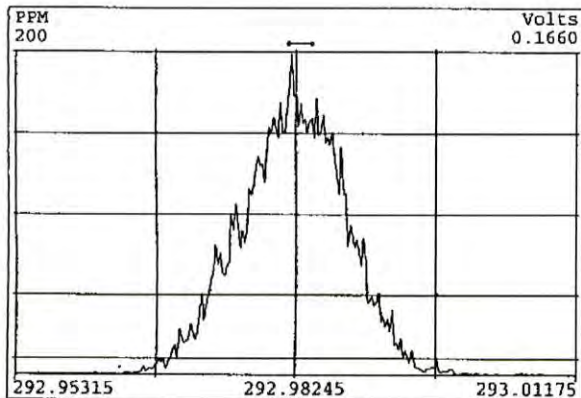


SS	37C1-2,3,7,8-TCDD	6.86e+06		27:19	1.00	10.0			0.876	100
SS	13C-1,2,3,4,7-PeCDD	4.62e+07	1.62 y	32:20	0.93	93.9	9547	2.5	0.476	93.9
SS	13C-1,2,3,4,6-PeCDF	8.00e+07	1.57 y	30:48	0.94	99.2	7735	2.5	0.245	99.2
SS	13C-1,2,3,4,6,9-HxCDF	5.62e+07	0.53 y	36:15	0.80	98.2	40035	2.5	1.05	98.2
SS	13C-1,2,3,4,6,8,9-HpCDF	3.57e+07	0.46 y	39:42	0.79	99.9	14845	2.5	0.590	99.9
SBS	2,4,6,8-TCDF	*	* n	NotF*	1.05	*	2086	2.5	0.0392	-
Ay	1,3,6,8-TCDD	1.91e+04	0.81 y	23:28	1.08	0.0259	522	2.5	0.0145	-
Ay	1,2,3,9-TCDD	*	* n	NotF*	1.08	*	522	2.5	0.0145	-
Ay	1,2,8,9-TCDD	*	* n	NotF*	1.08	*	522	2.5	0.0145	-
Ay	1,2,4,7,9-PeCDD	*	* n	NotF*	1.00	*	3057	2.5	0.142	-
Ay	1,2,3,8,9-PeCDD	*	* n	NotF*	1.00	*	3057	2.5	0.142	-
Ay	1,2,4,6,7,9-HxCDD	*	* n	NotF*	1.00	*	8125	2.5	0.402	-
Ay	1,2,3,4,6,7,9-HpCDD	3.11e+05	1.03 y	39:33	0.97	0.802	3530	2.5	0.208	-
Ay	1,3,6,8-TCDF	*	* n	NotF*	1.05	*	2086	2.5	0.0392	-
Ay	2,3,4,8-TCDF	1.09e+07	0.78 y	26:23	1.05	10.2	2086	2.5	0.0392	-
Ay	1,2,8,9-TCDF	*	* n	NotF*	1.05	*	2086	2.5	0.0392	-
Ay	1,3,4,6,8-PeCDF	*	* n	NotF*	1.05	*	302	2.5	0.00568	-
Ay	1,2,3,8,9-PeCDF	4.32e+05	1.65 y	33:35	1.00	0.491	6694	2.5	0.185	-
Ay	1,2,3,4,6,8-HxCDF	*	* n	NotF*	1.15	*	16037	2.5	0.347	-
Tot	Total Tetra-Dioxins	7.54e+06	0.81 y	23:28	1.08	10.2	522	2.5	0.0145	-
Tot	Total Penta-Dioxins	2.77e+07	1.48 y	31:36	1.00	52.3	3057	2.5	0.142	-
Tot	Total Hexa-Dioxins	7.50e+07	1.23 y	36:47	1.00	154	8125	2.5	0.402	-
Tot	Total Hepta-Dioxins	1.96e+07	1.03 y	39:33	0.97	50.4	3530	2.5	0.208	-
Tot	Total Tetra-Furans	1.14e+07	0.74 y	23:03	1.05	10.6	2086	2.5	0.0392	-
Tot	Total Penta-Furans	8.92e+07	1.49 y	30:13	1.00	101	6694	2.5	0.185	-
Tot	Total Hexa-Furans	1.47e+08	1.12 y	34:37	1.15	205	16037	2.5	0.347	-
Tot	Total Hepta-Furans	5.69e+07	1.04 y	39:13	1.35	105	5681	2.5	0.164	-
Tot	TCDD EMPC	7.62e+06	0.81 y	23:28	1.08	10.3	522	2.5	0.0145	-
Tot	PeCDD EMPC	2.79e+07	1.25 y	31:24	1.00	52.7	3057	2.5	0.142	-
Tot	HxCDD EMPC	7.53e+07	1.60 y	36:02	1.00	155	8125	2.5	0.402	-
Tot	HpCDD EMPC	1.96e+07	1.03 y	39:33	0.97	50.4	3530	2.5	0.208	-
Tot	TCDF EMPC	1.15e+07	0.74 y	23:03	1.05	10.8	2086	2.5	0.0392	-
Tot	PeCDF EMPC	8.92e+07	1.49 y	30:13	1.00	101	6694	2.5	0.185	-
Tot	HxCDF EMPC	1.47e+08	1.12 y	34:37	1.15	205	16037	2.5	0.347	-
Tot	HpCDF EMPC	5.74e+07	1.04 y	39:13	1.35	106	5681	2.5	0.164	-
AS	13C-1,3,6,8-TCDD	7.45e+07	0.81 y	23:26	1.09	102	1533	2.5	0.0399	102
AS	13C-1,3,6,8-TCDF	1.19e+08	0.78 y	21:14	1.09	101	551	2.5	0.00997	101
DPE	HxCDFE	*		NotF*	-	*	-	-	-	-
DPE	HpCDFE	*		NotF*	-	*	-	-	-	-
DPE	OCDFE	*		NotF*	-	*	-	-	-	-
DPE	NCDFE	*		NotF*	-	*	-	-	-	-
DPE	DCDFE	*		NotF*	-	*	-	-	-	-
LMC	Fn1 check mass	*		NotF*	-	*	-	-	-	-
LMC	Fn2 check mass	*		NotF*	-	*	-	-	-	-
LMC	Fn3 check mass	*		NotF*	-	*	-	-	-	-
LMC	Fn4 check mass	*		NotF*	-	*	-	-	-	-
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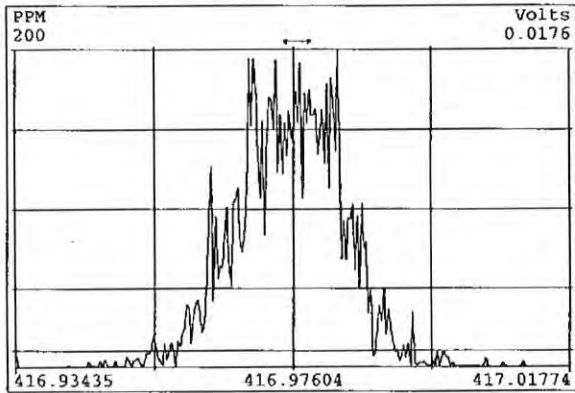
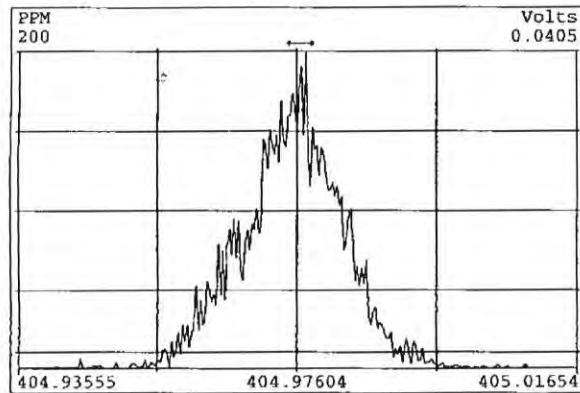
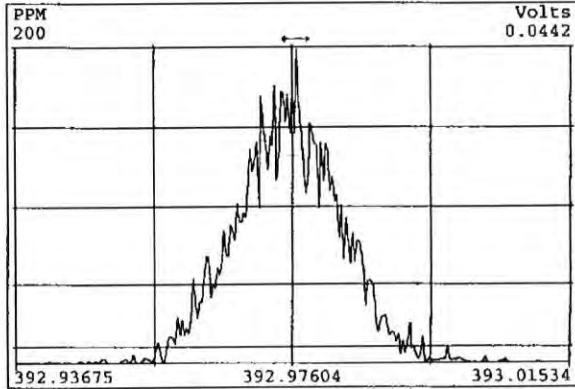
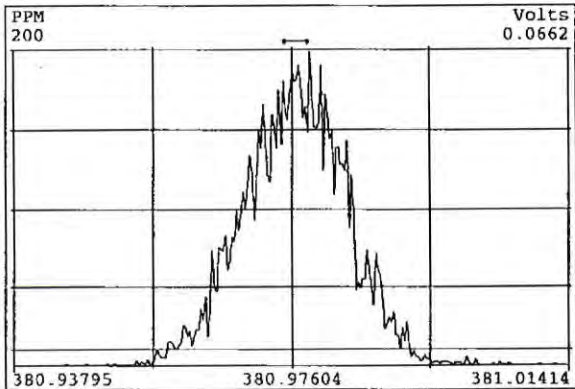
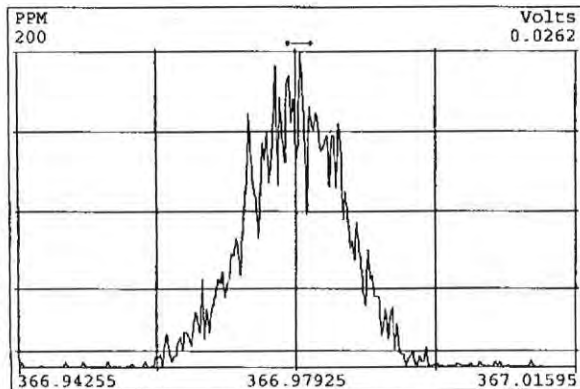
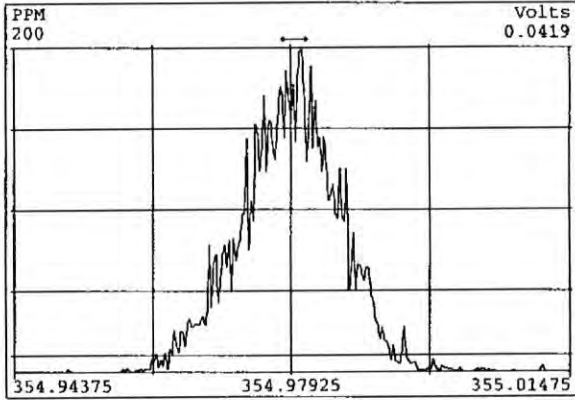
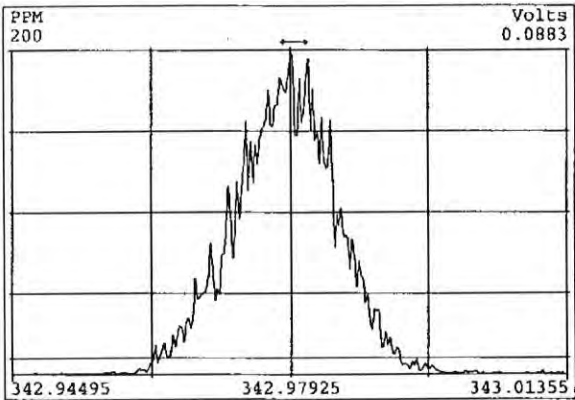
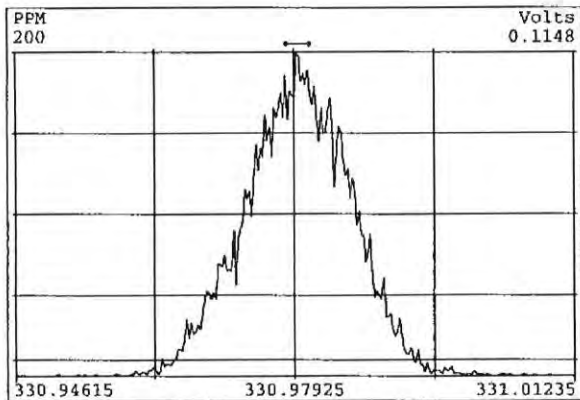
ok 7 Apr 09



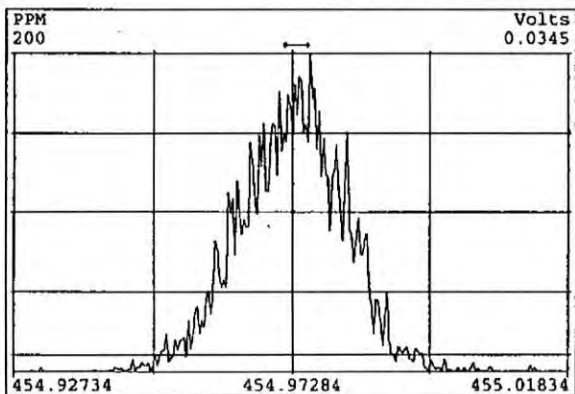
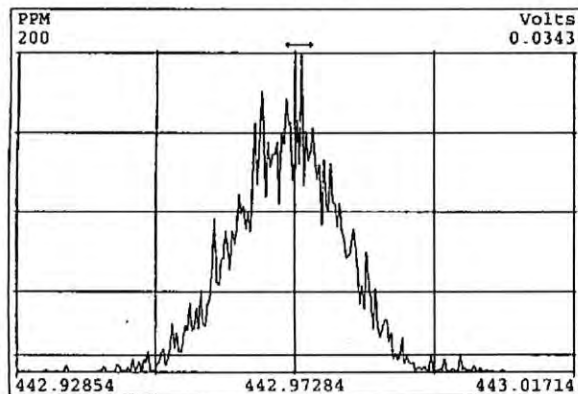
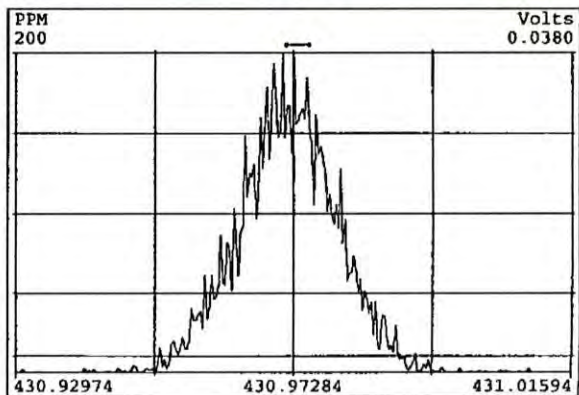
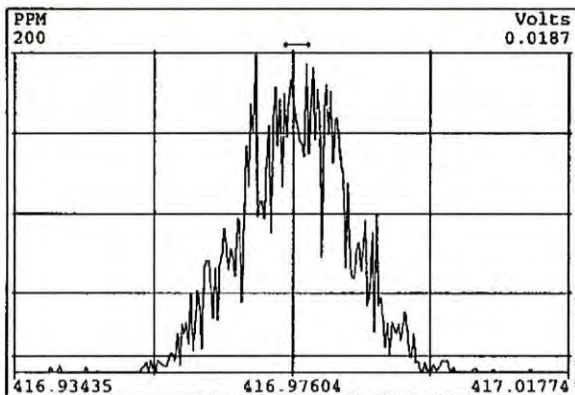
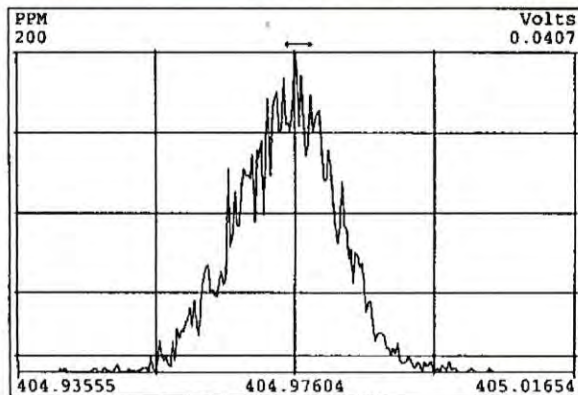
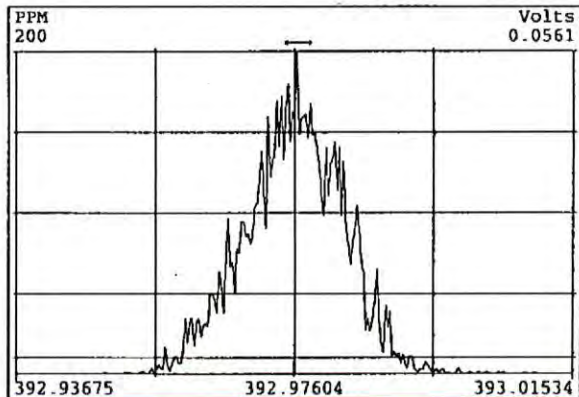
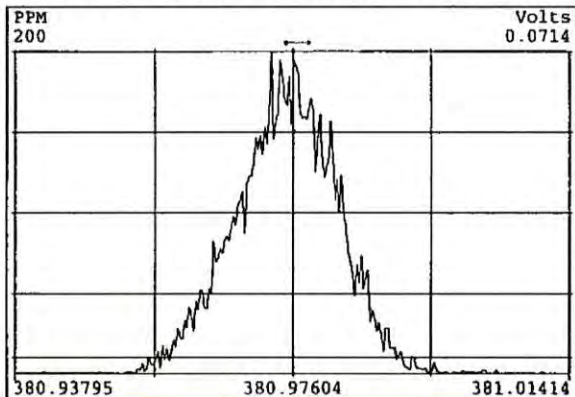
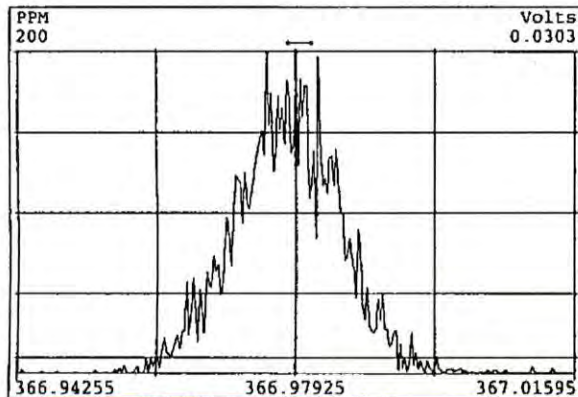
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Experiment:DF\_CL4-8 Function:2 Reference:PFK2

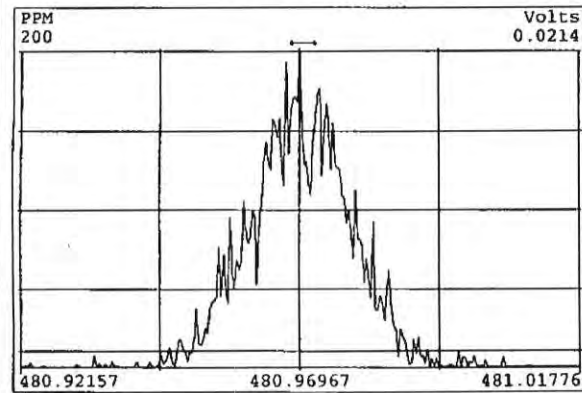
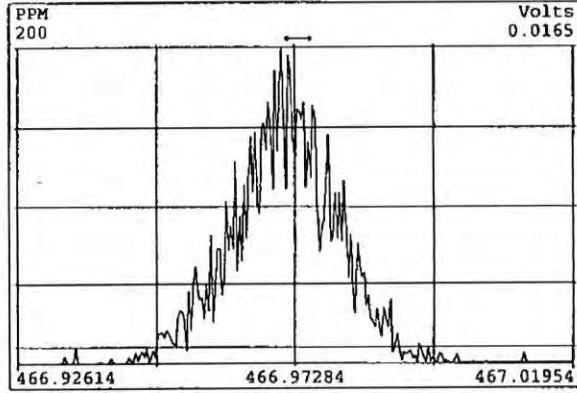
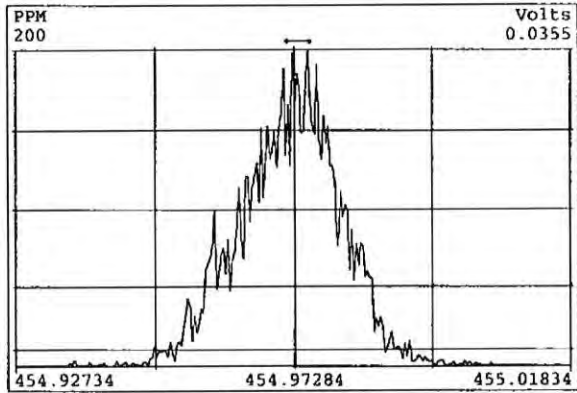
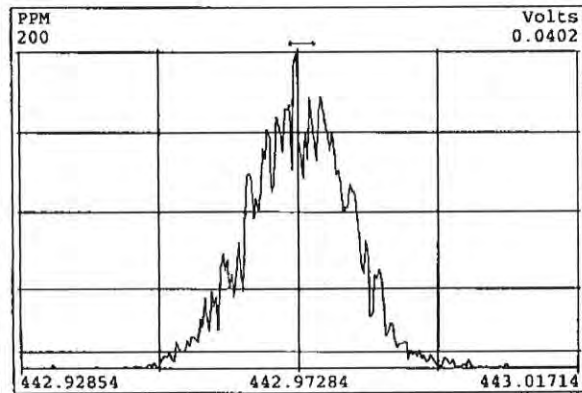
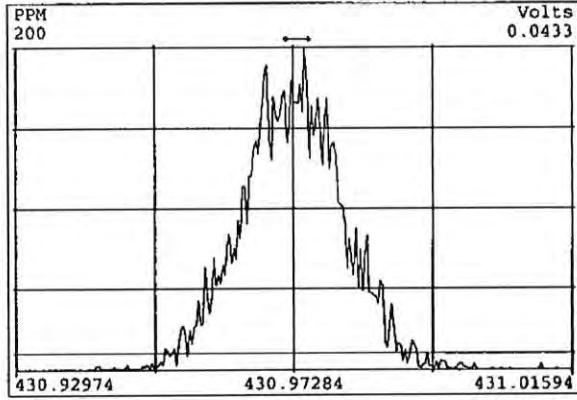
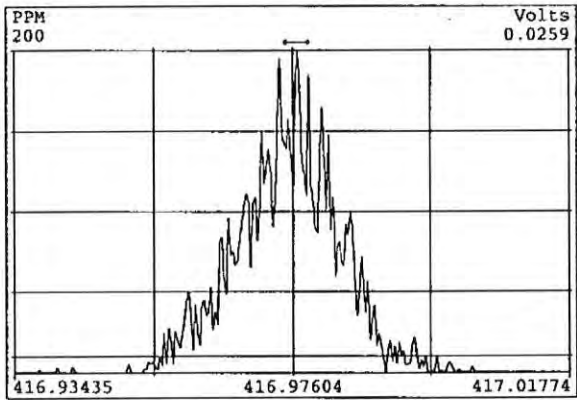
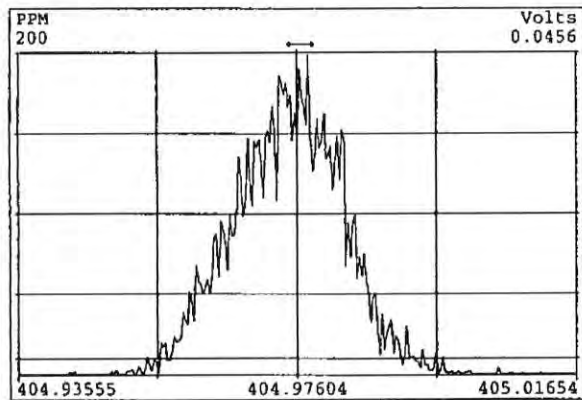


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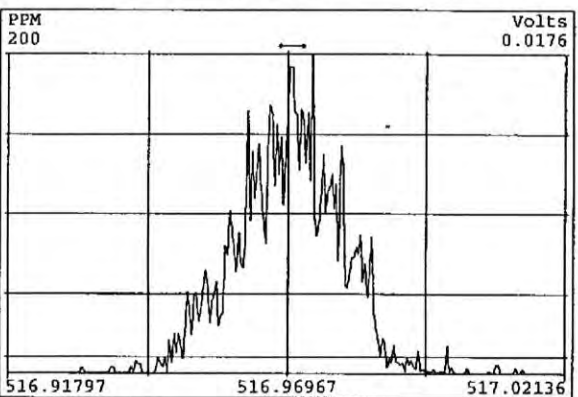
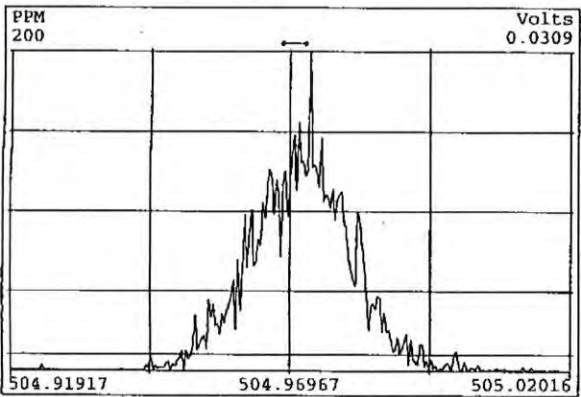
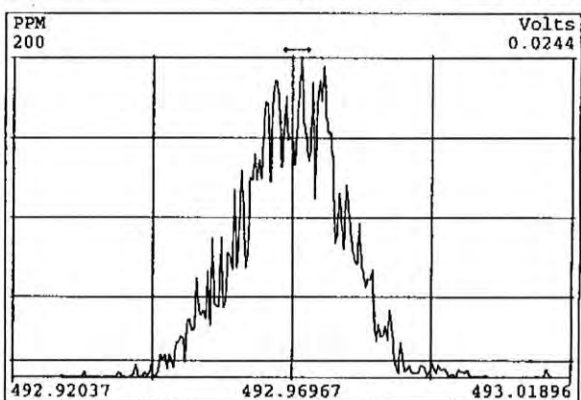
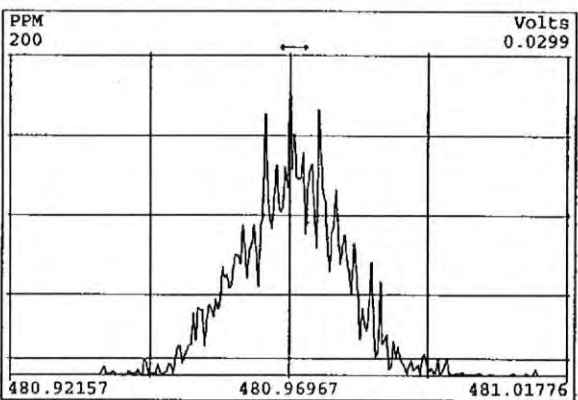
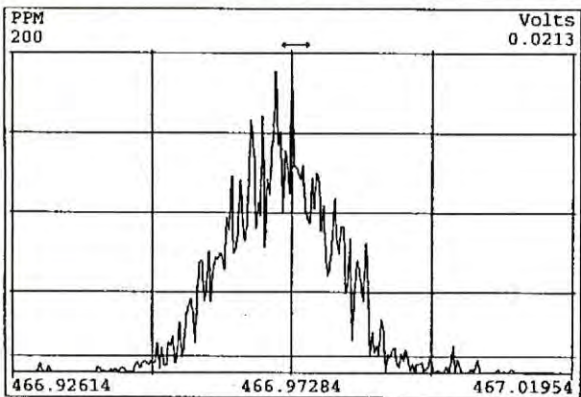
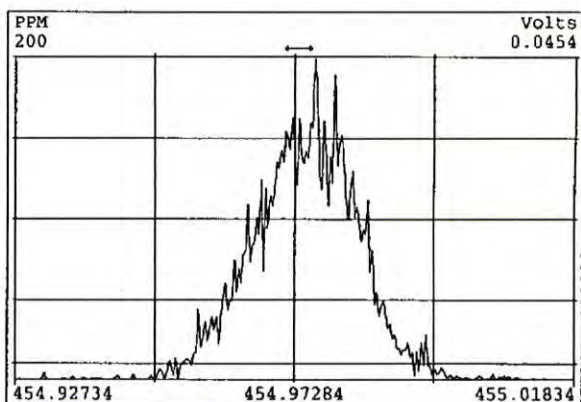
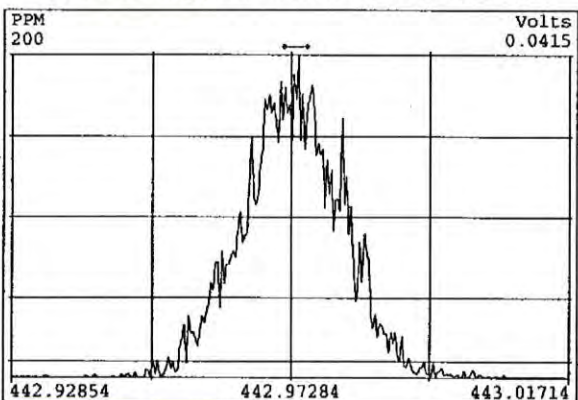
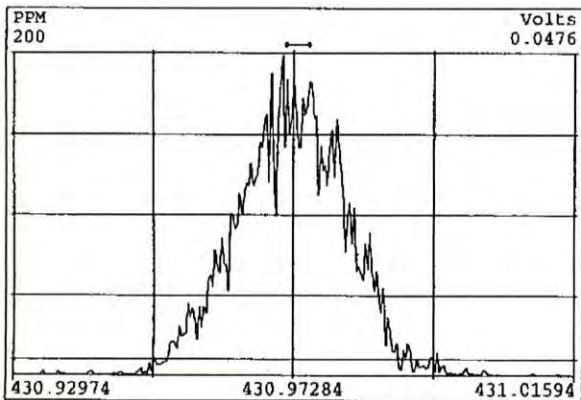




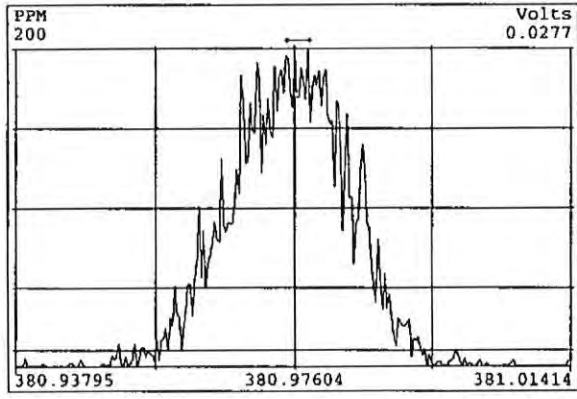
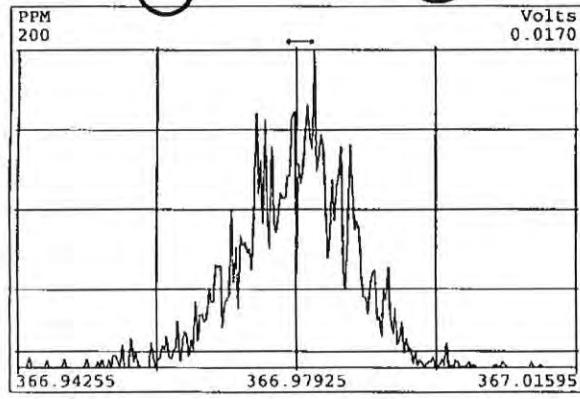
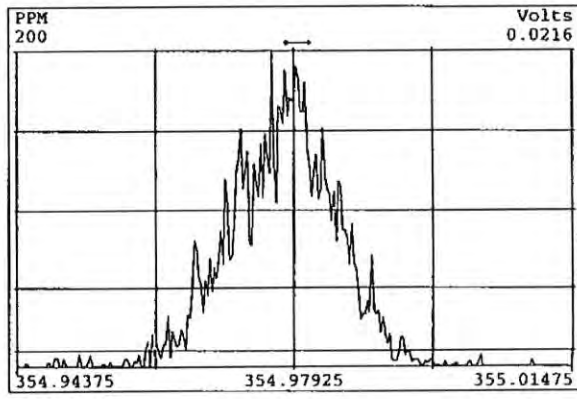
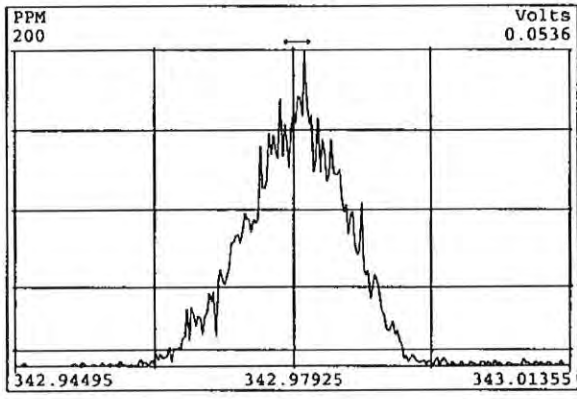
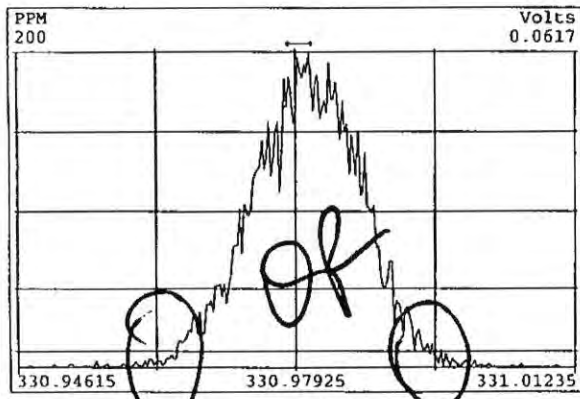
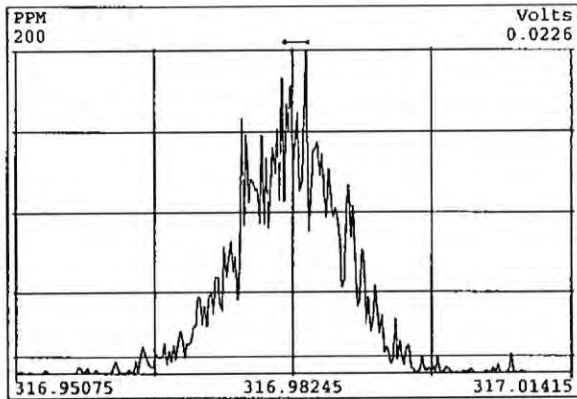
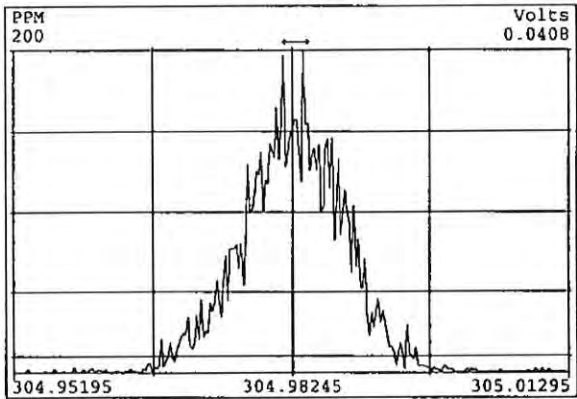
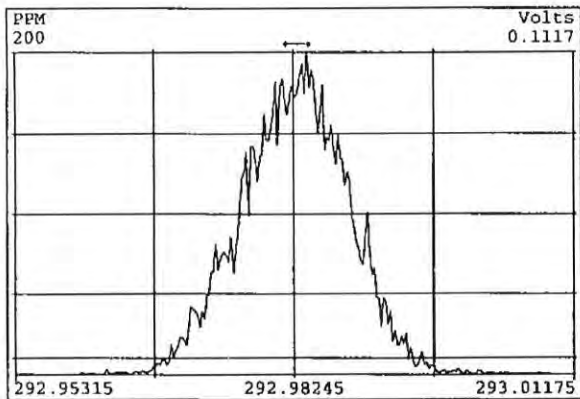
Peak Locate Examination: 25-MAR-2009:14:19 File: 090325P1  
Experiment: DF\_CL4-8 Function: 4 Reference: PFK2



Peak Locate Examination: 25-MAR-2009:14:19 File: 090325P1  
Experiment: DF\_CL4-8 Function: 5 Reference: PFK2

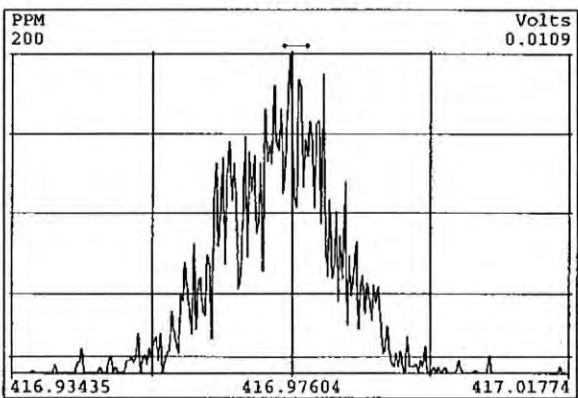
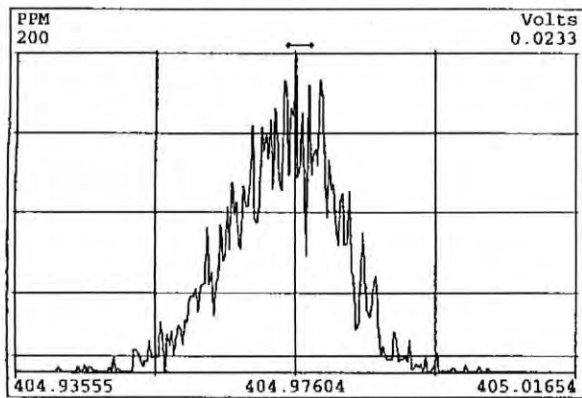
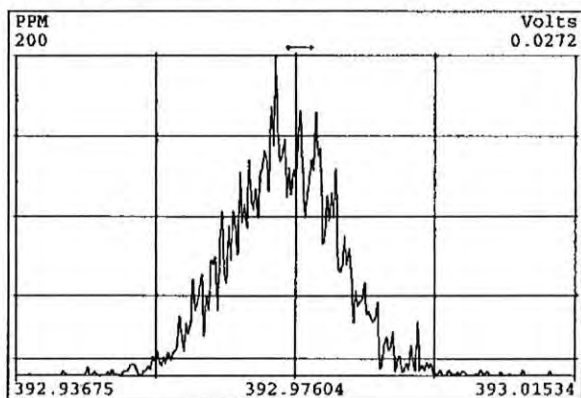
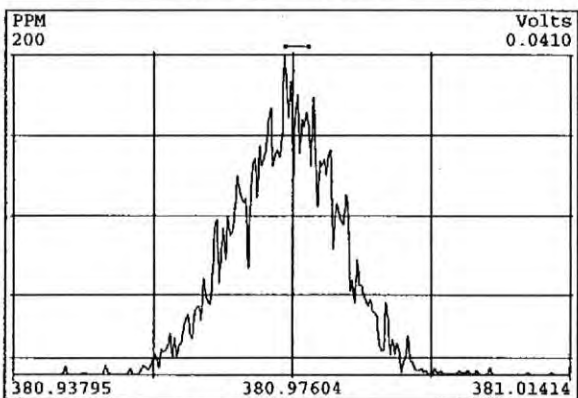
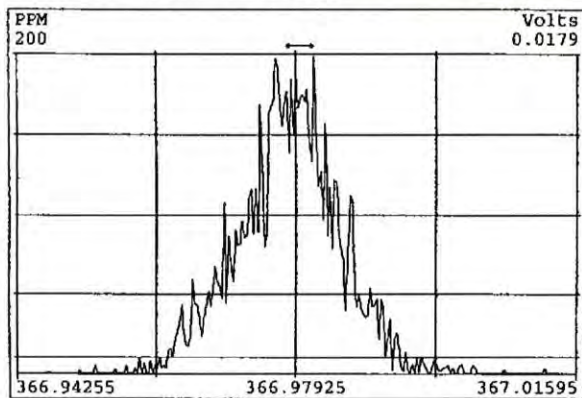
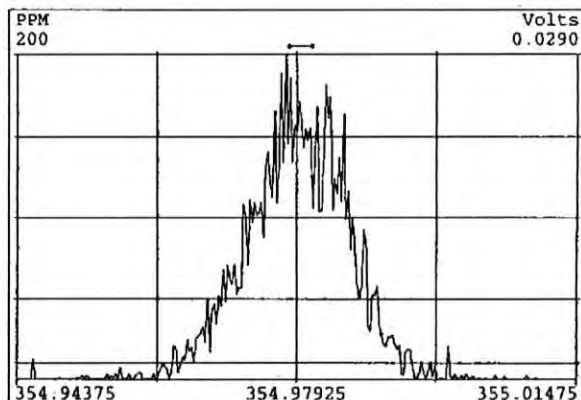
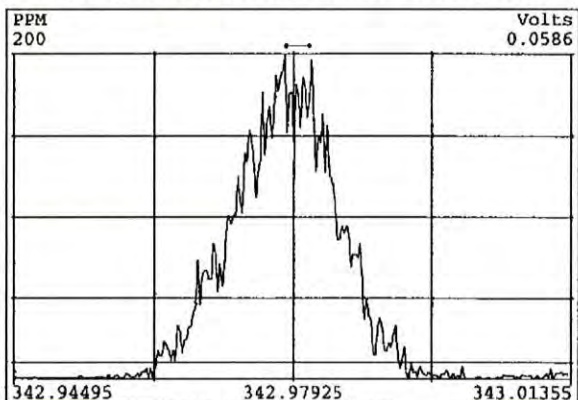
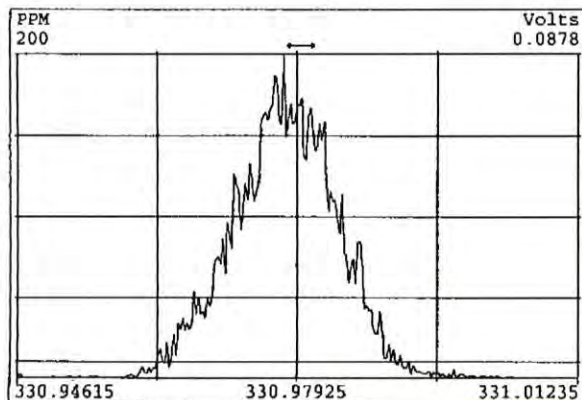


Peak Locate Examination: 25-MAR-2009:22:48 File:MM1\_RES\_CHECK  
Experiment:DF\_CL4-8 Function:1 Reference:PFK2

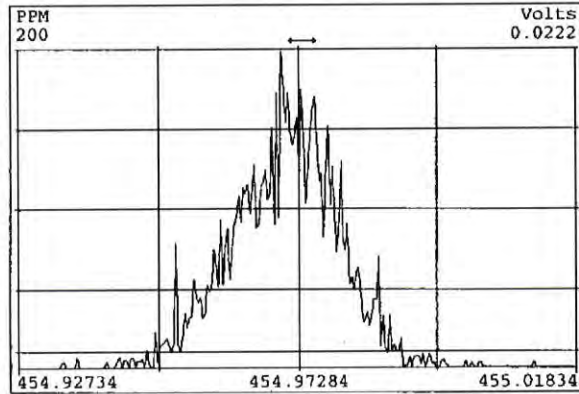
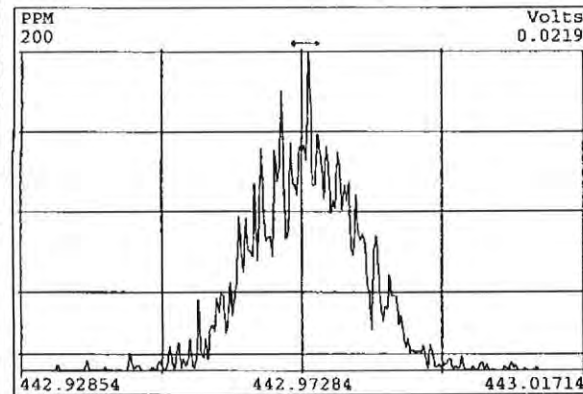
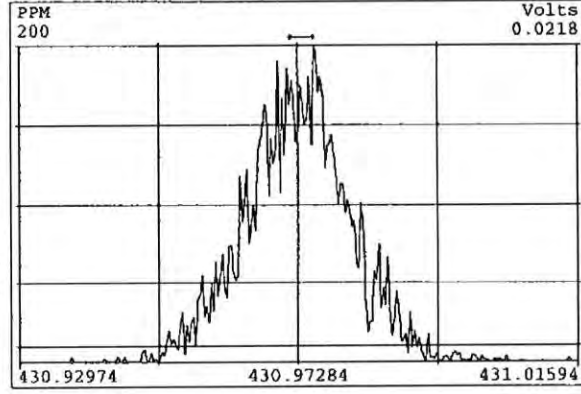
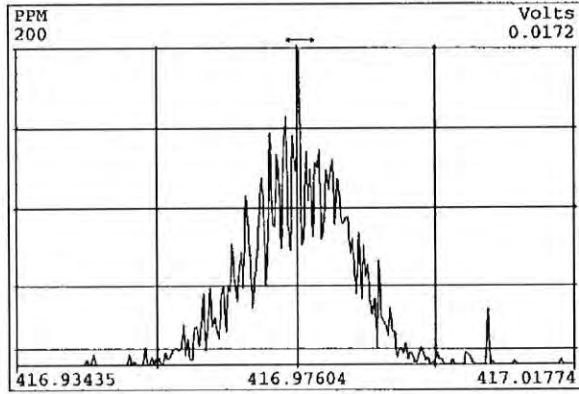
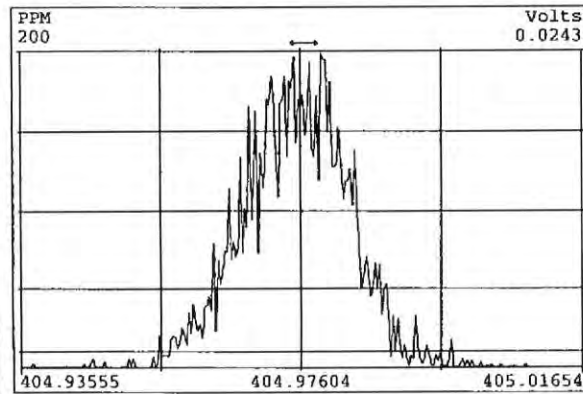
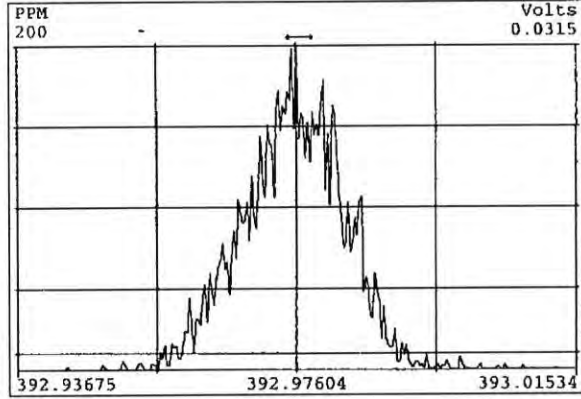
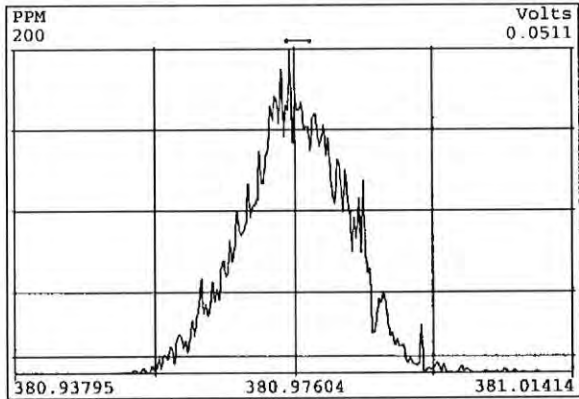
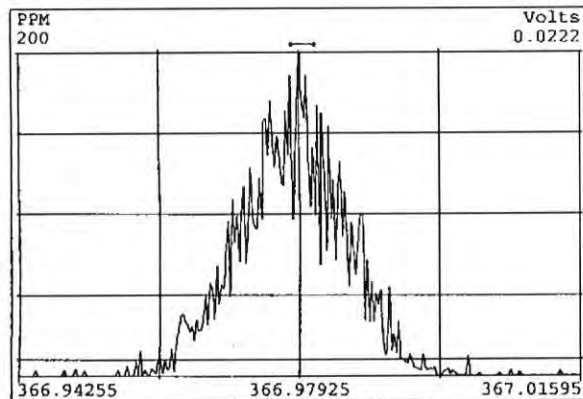




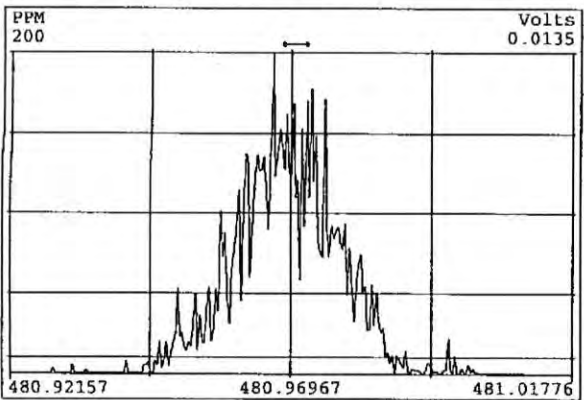
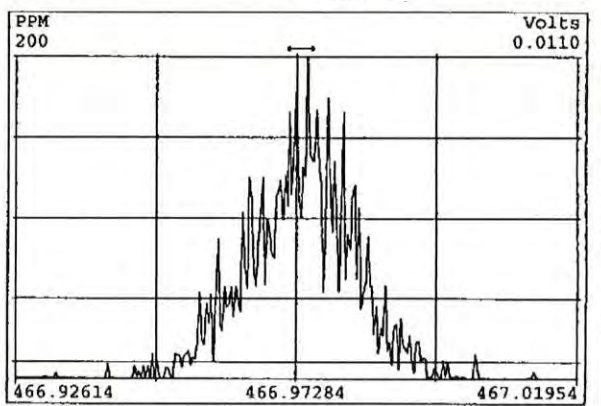
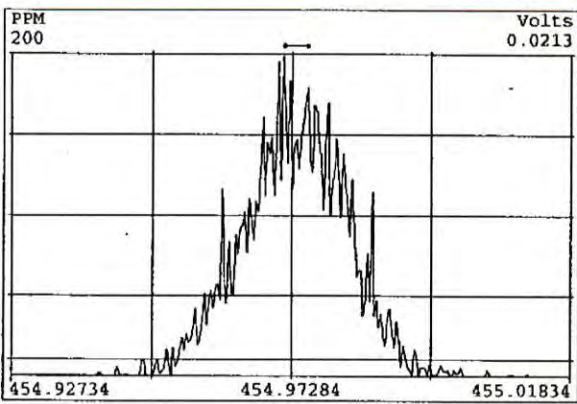
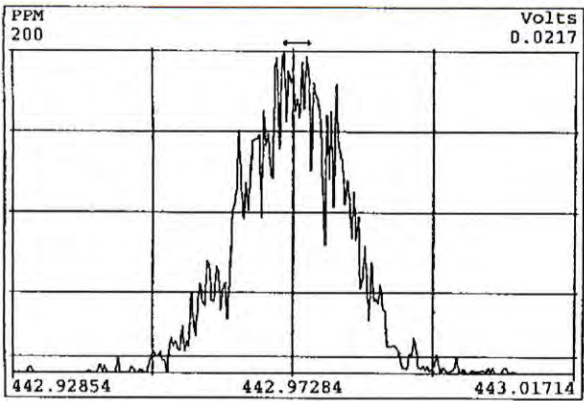
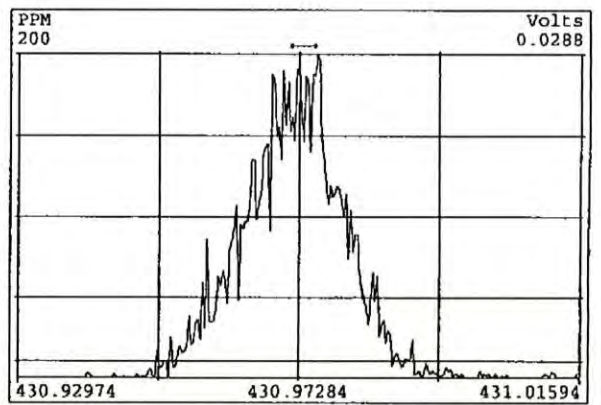
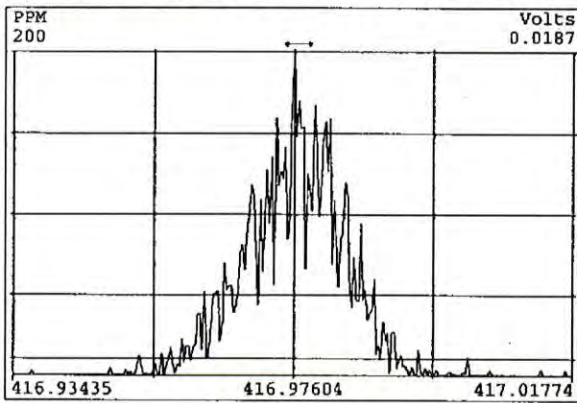
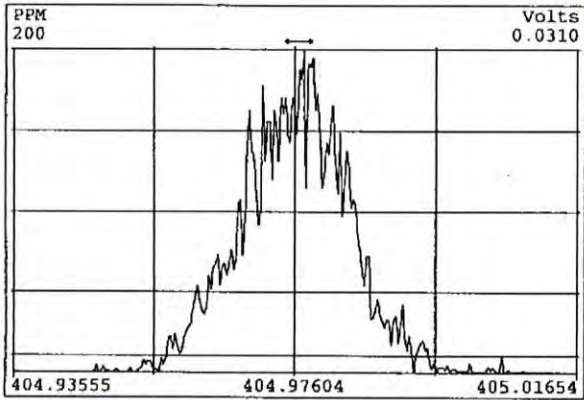
Peak Locate Examination:25-MAR-2009:22:49 File:MM1\_RES\_CHECK  
Experiment:DF\_CL4-8 Function:2 Reference:PK2



Peak Locate Examination: 25-MAR-2009:22:50 File:MM1\_RES\_CHECK  
Experiment:DF\_CL4-8 Function:3 Reference:PFK2

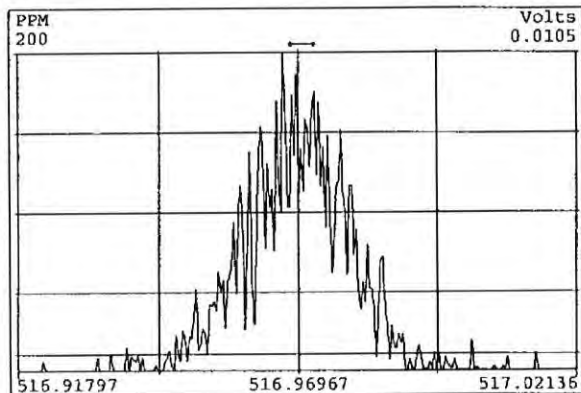
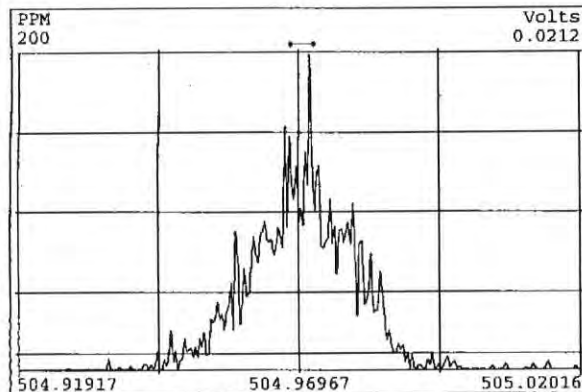
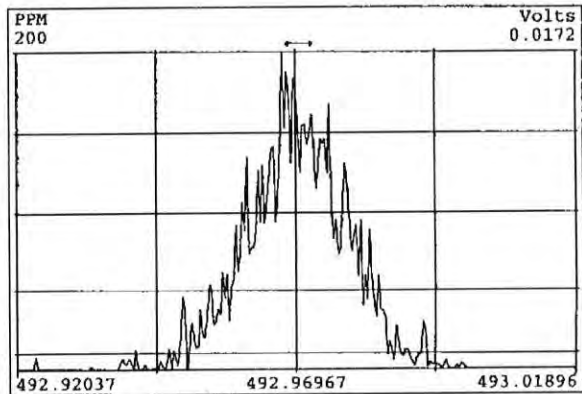
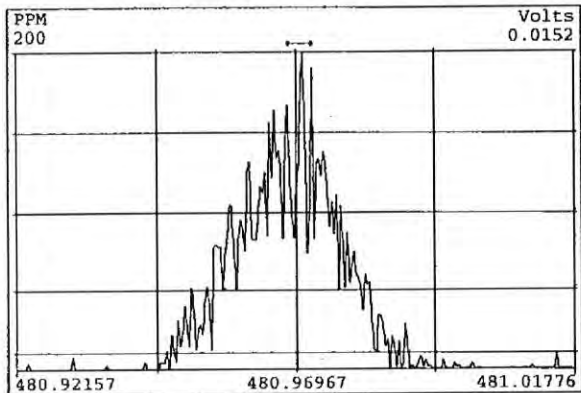
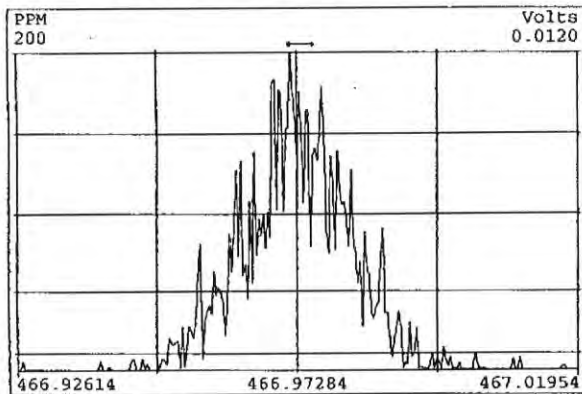
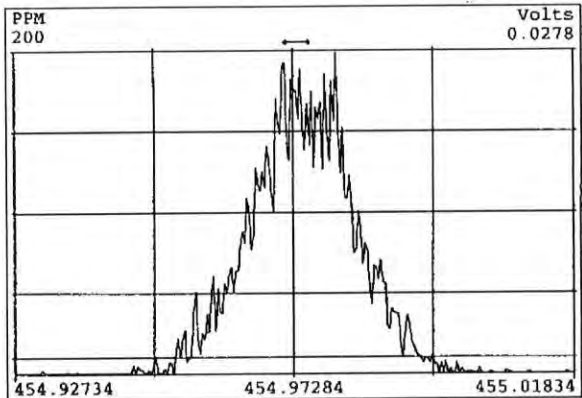
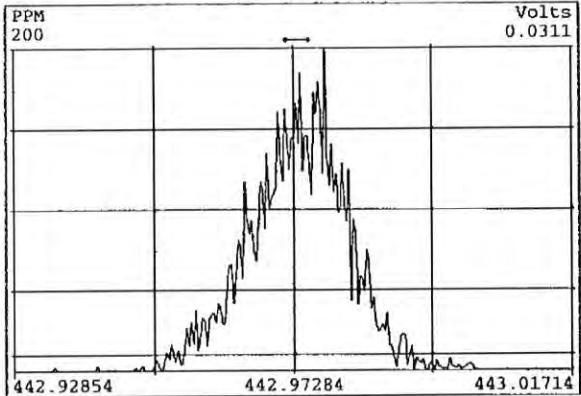
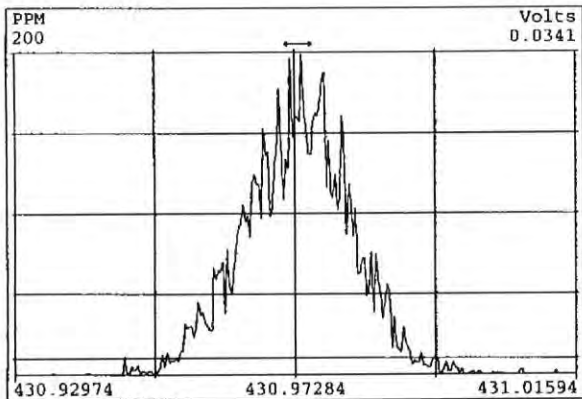


Peak Locate Examination:25-MAR-2009:22:51 File:MML\_RES\_CHECK  
Experiment:DF\_CL4-8 Function:4 Reference:PFK2





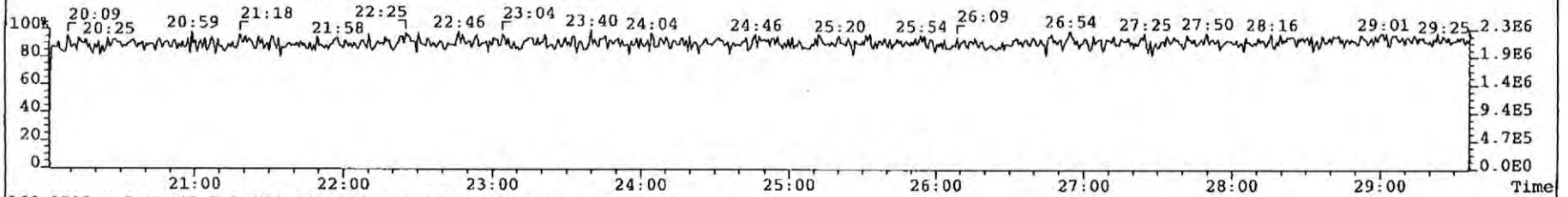
Peak Locate Examination:25-MAR-2009:22:52 File:MM1\_RES\_CHECK  
Experiment:DF\_CL4-8 Function:5 Reference:PFK2



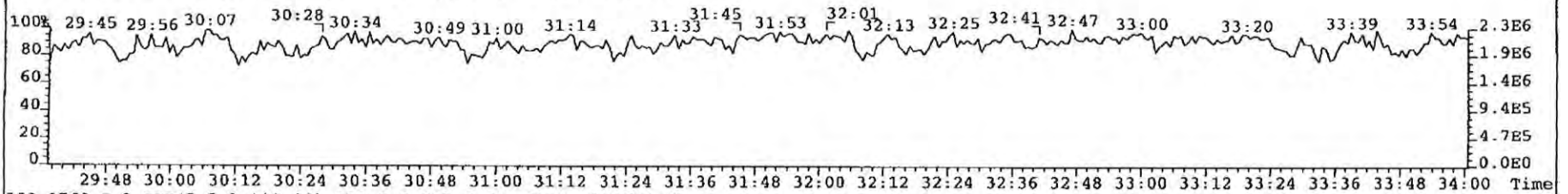
File: 090325P1 Acq: 25-MAR-2009 14:19:58 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5

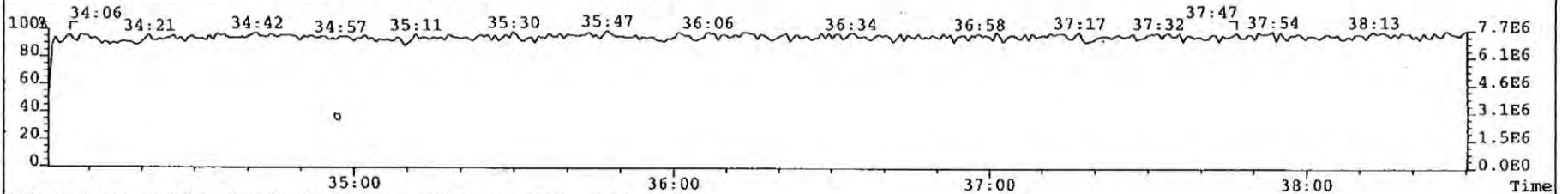
316.9824 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



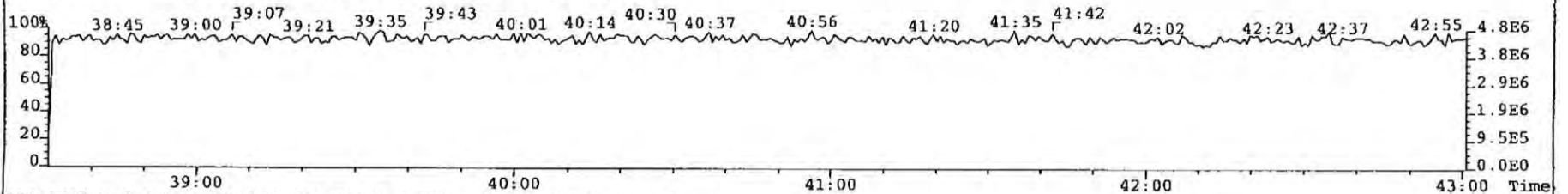
366.9792 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



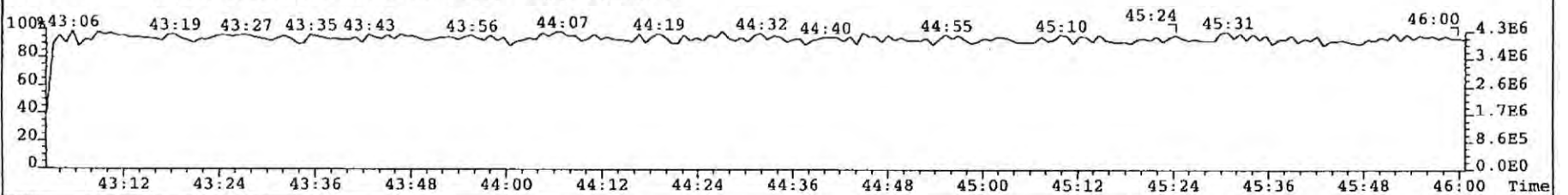
380.9760 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



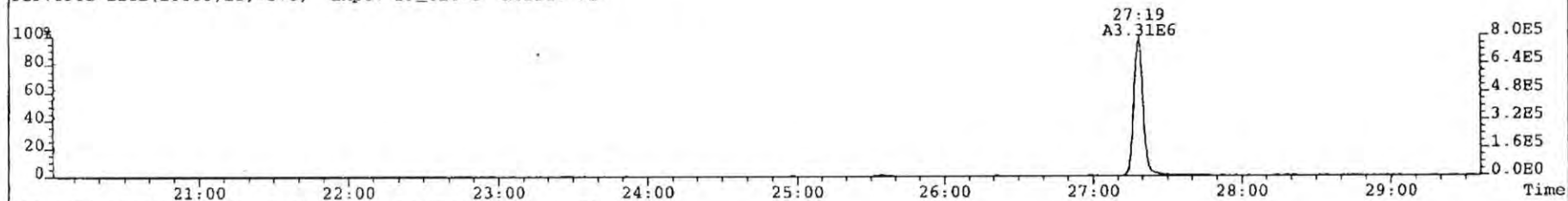
430.9728 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



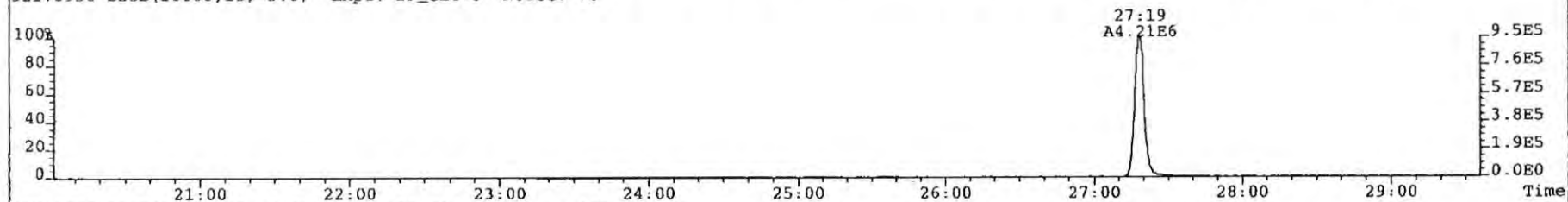
454.9728 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



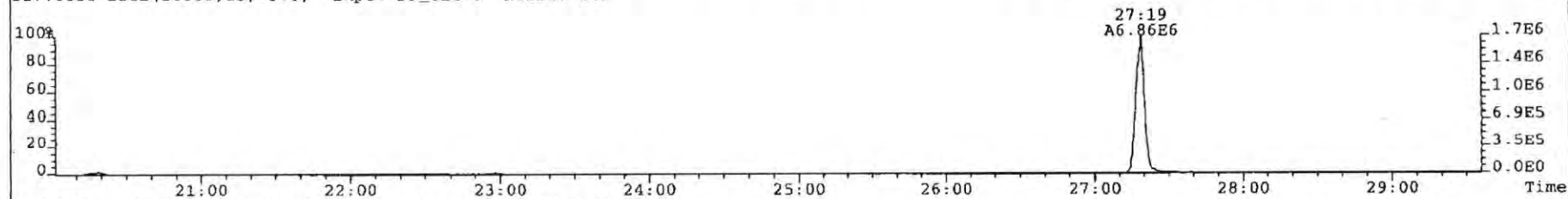
File: 090325PI Acq: 25-MAR-2009 14:19:58 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5  
319.8965 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 72



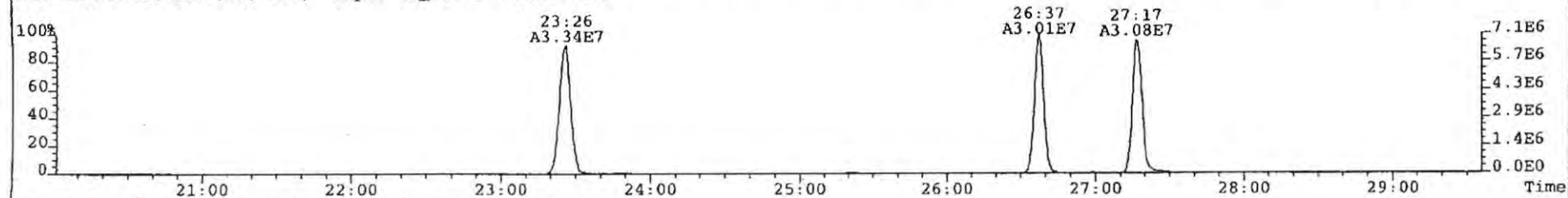
321.8936 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 76



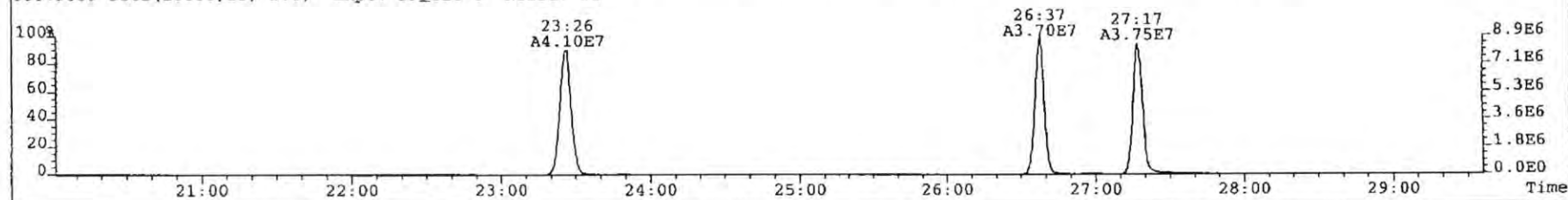
327.8850 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 102



331.9368 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 102

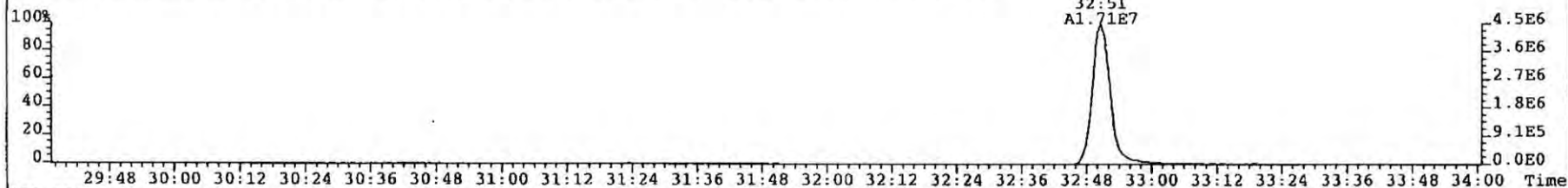


333.9339 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 91

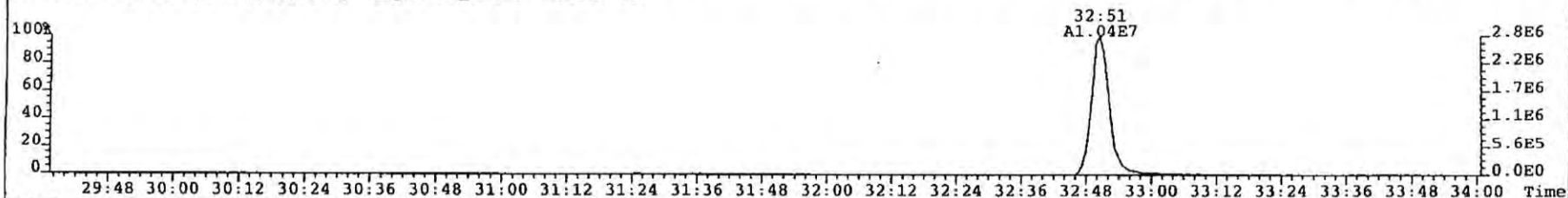




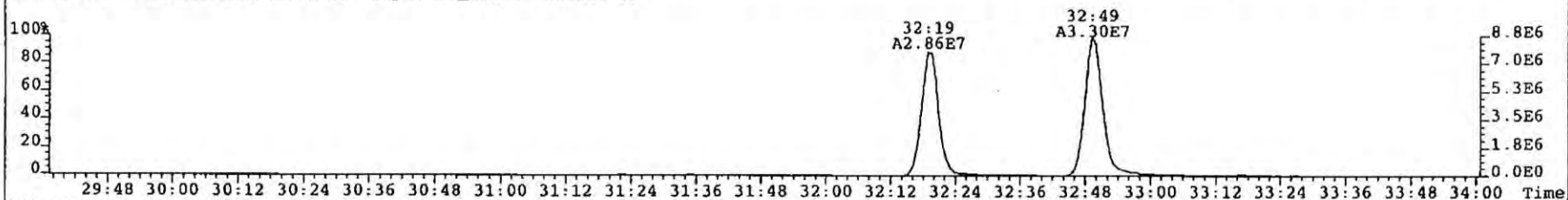
File: 090325P1 Acq: 25-MAR-2009 14:19:58 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5  
355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 68



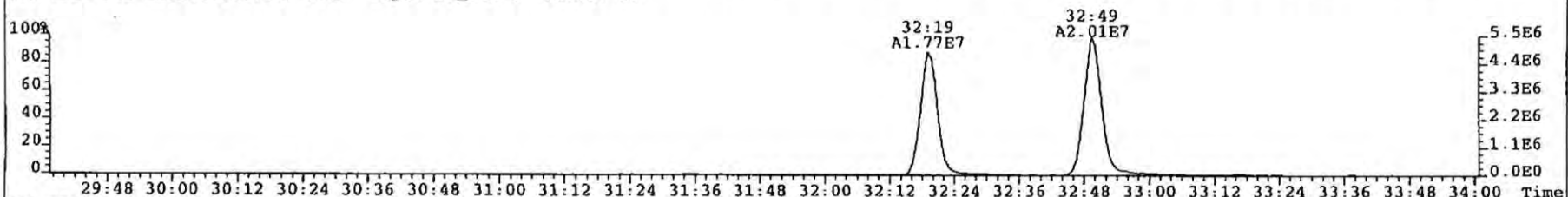
357.8517 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 79



367.8949 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 93



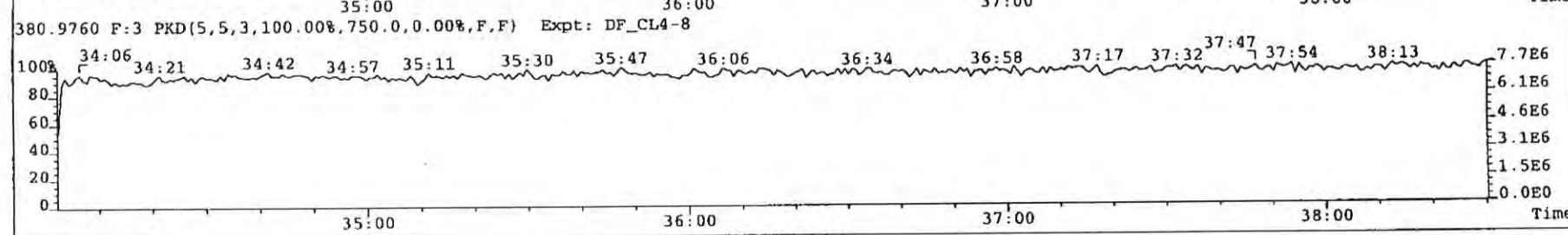
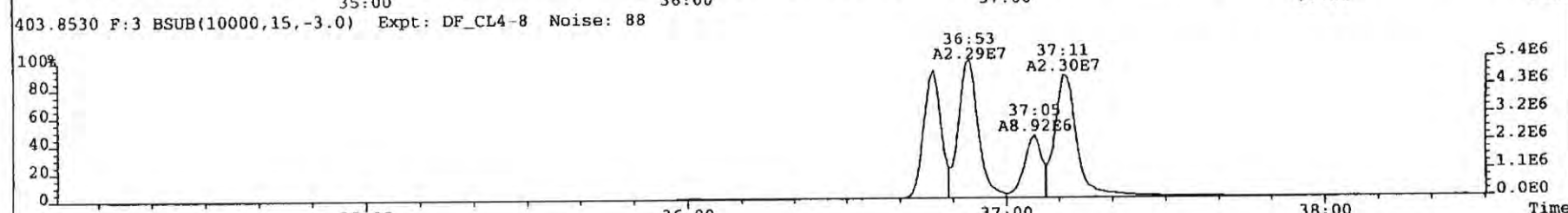
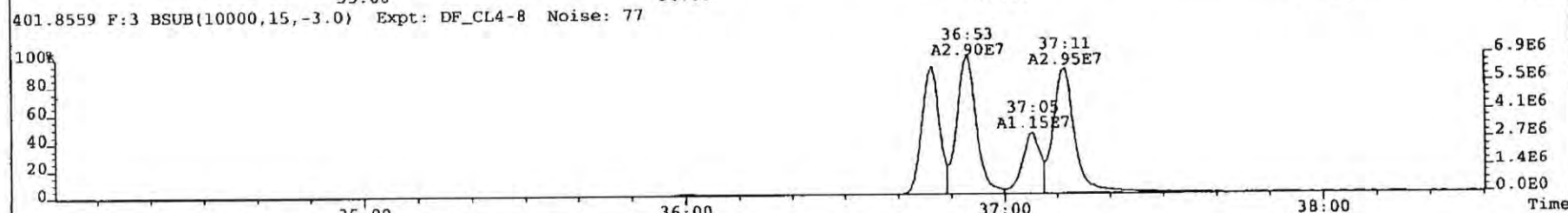
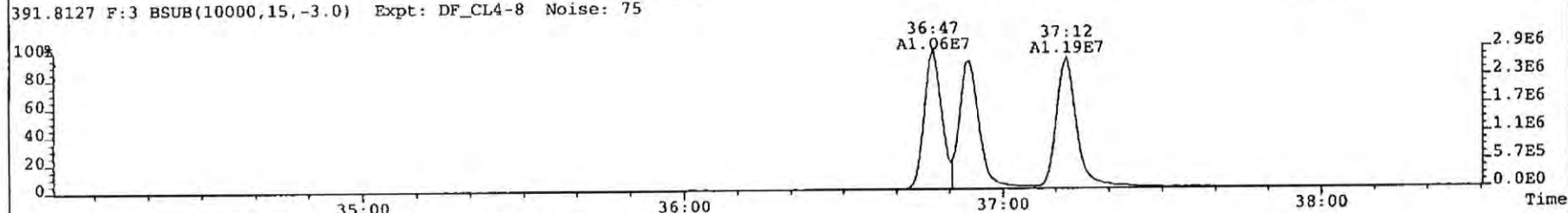
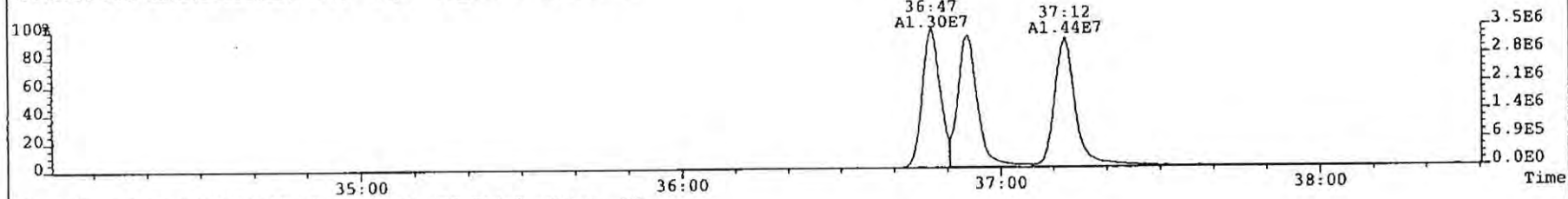
369.8919 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 93



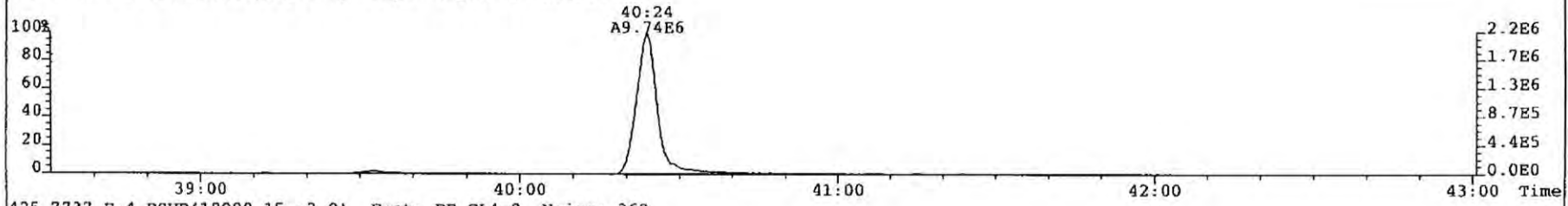
366.9792 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



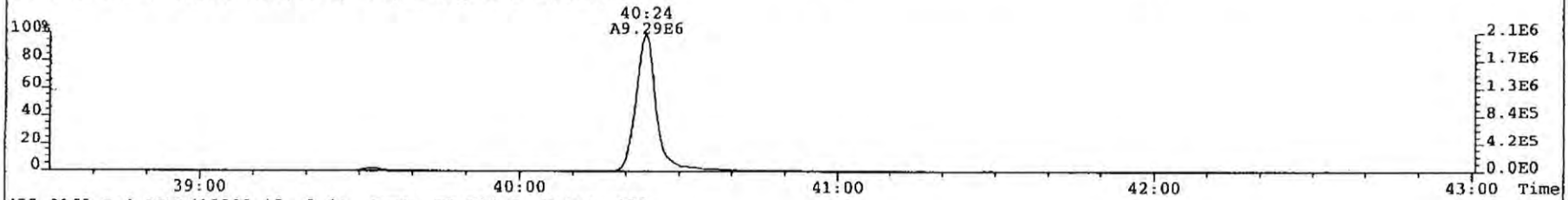
File: 090325P1 Acq: 25-MAR-2009 14:19:58 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5  
389.8156 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 81



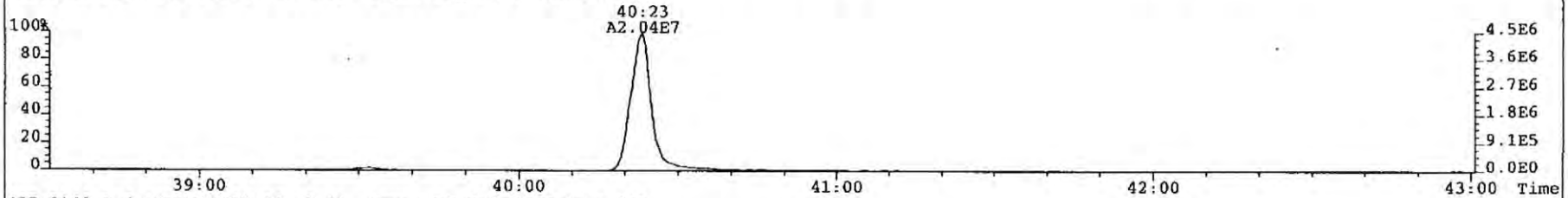
File: 090325F1 Acq: 25-MAR-2009 14:19:58 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5  
423.7767 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 386



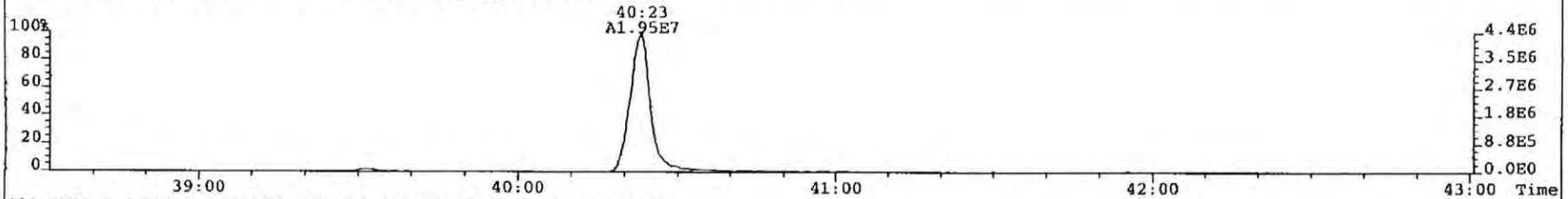
425.7737 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 362



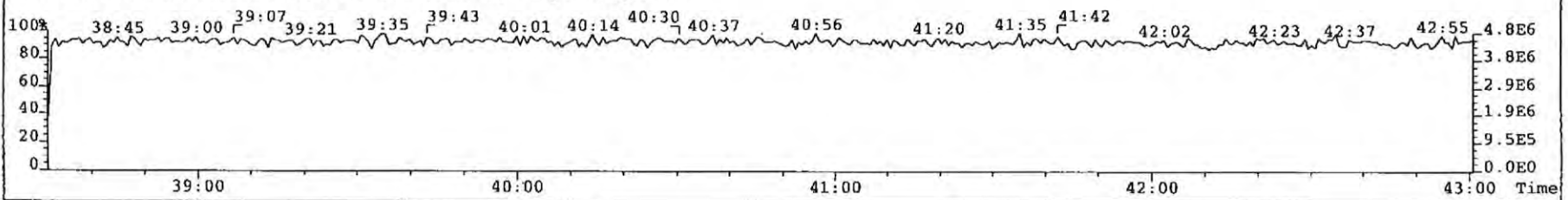
435.8169 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 939



437.8140 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 892



430.9728 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

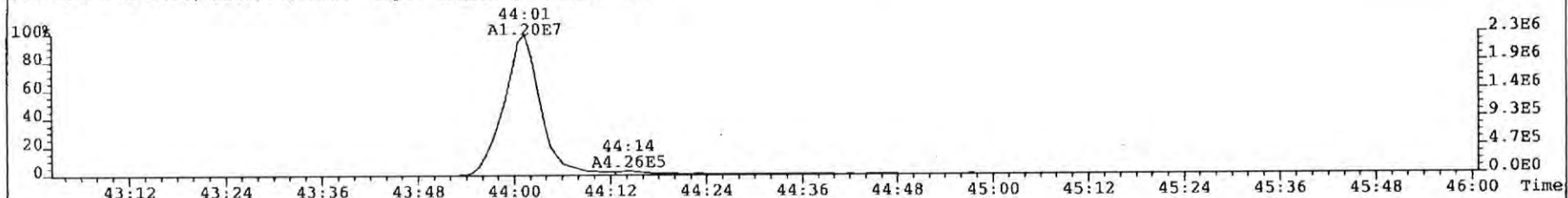




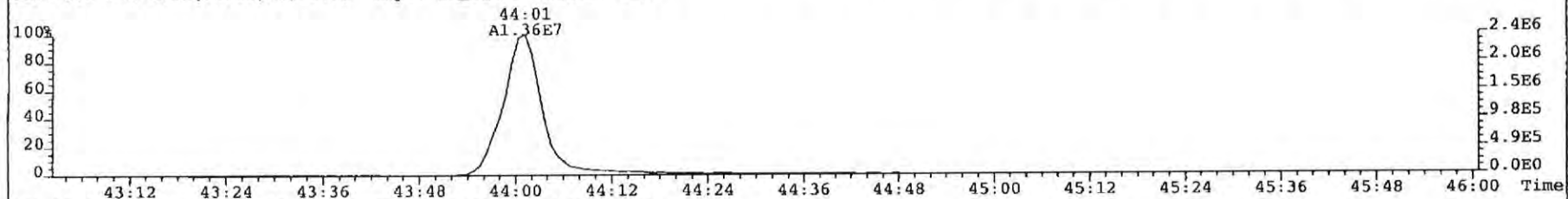
File: 090325P1 Acq: 25-MAR-2009 14:19:58 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5

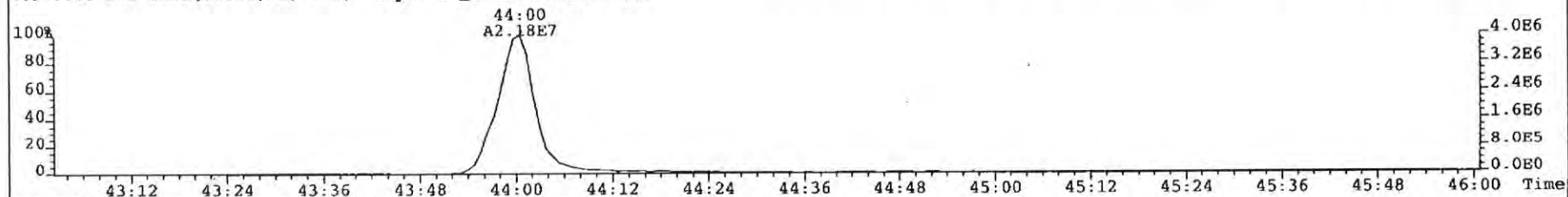
457.7377 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 358



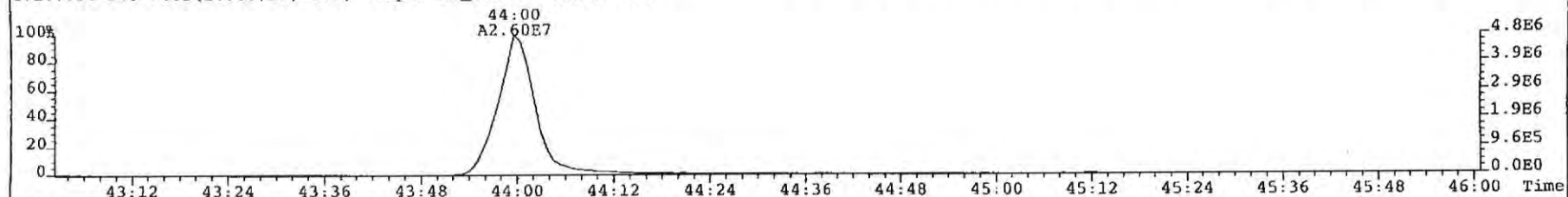
459.7348 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 204



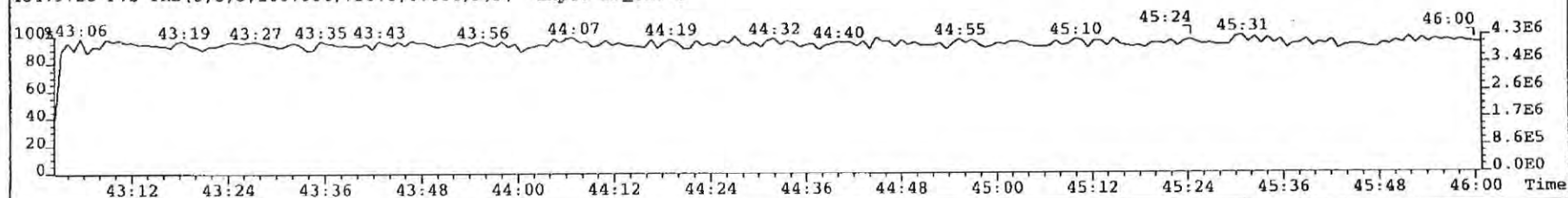
469.7780 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 654



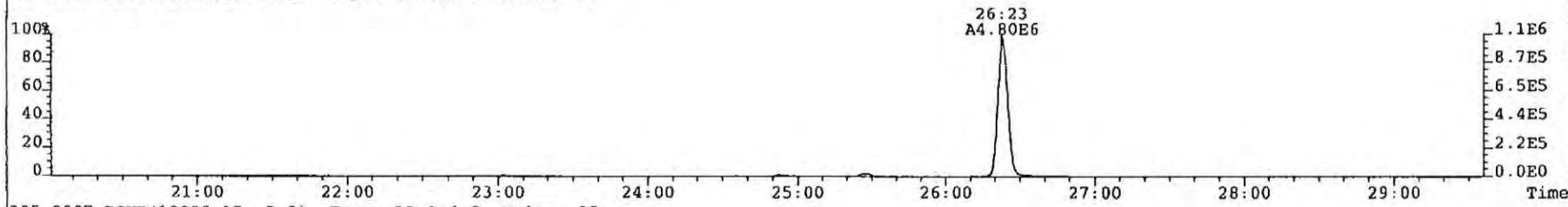
471.7750 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 709



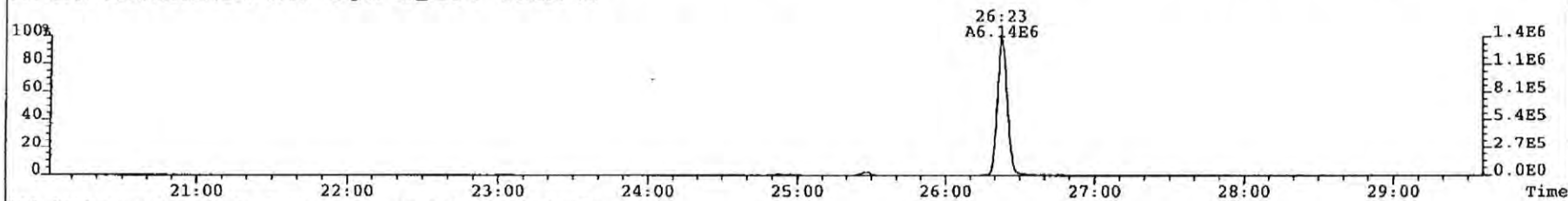
454.9728 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



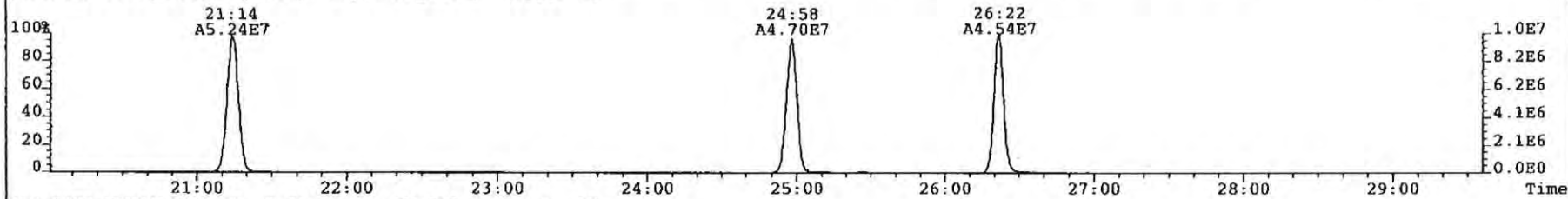
File: 090325P1 Acq: 25-MAR-2009 14:19:58 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5  
303.9016 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 78



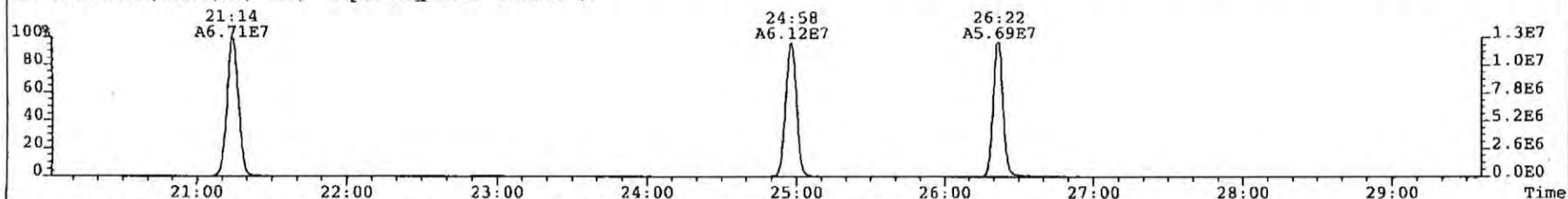
305.8987 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 85



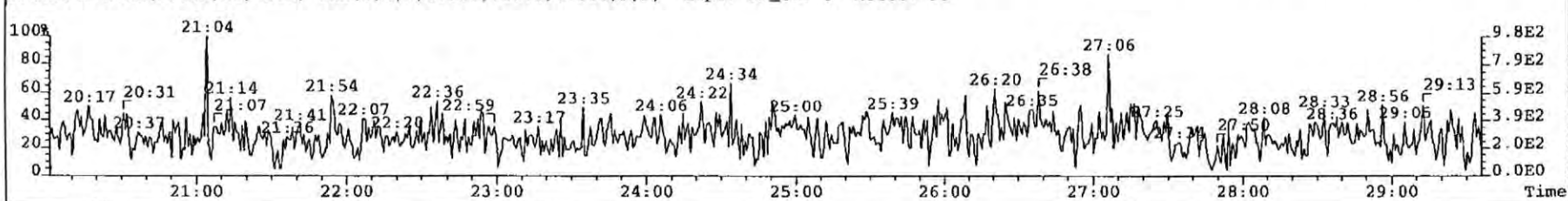
315.9419 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 74



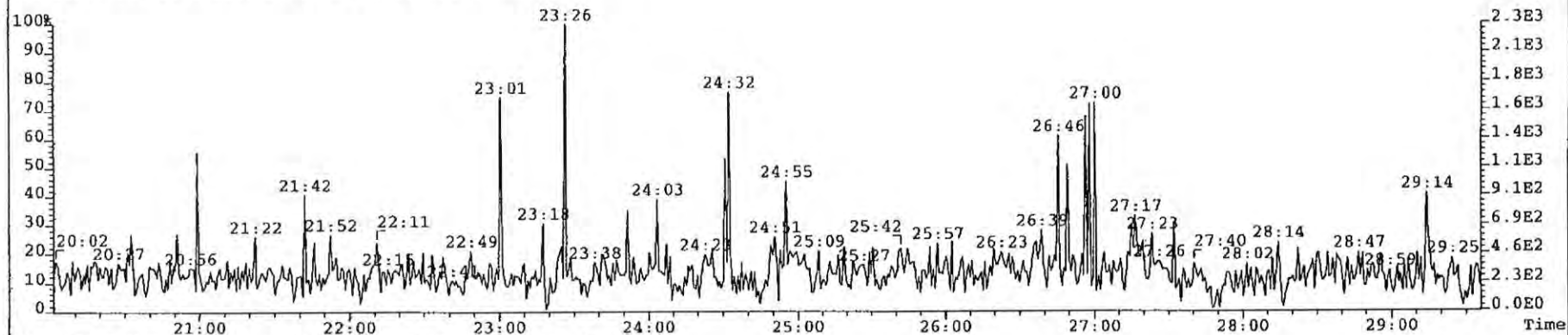
317.9389 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 87



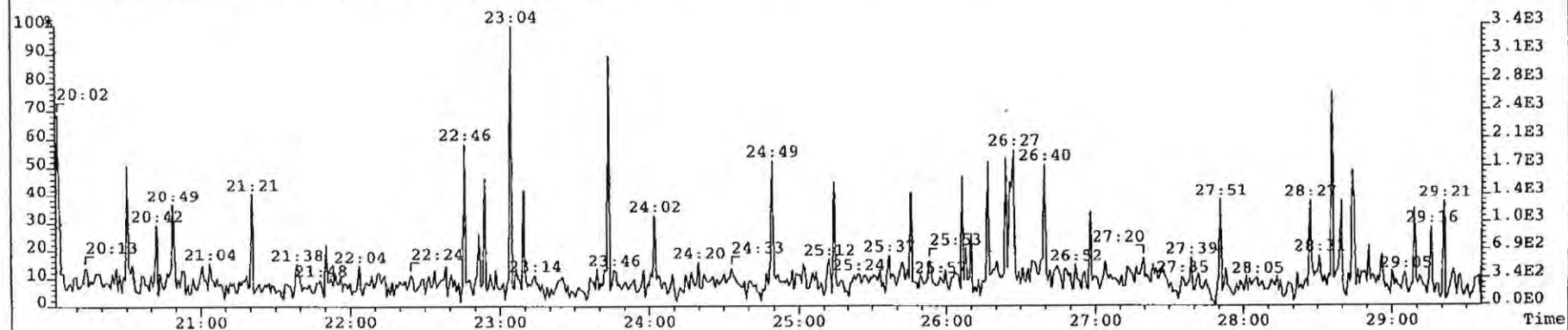
375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 93



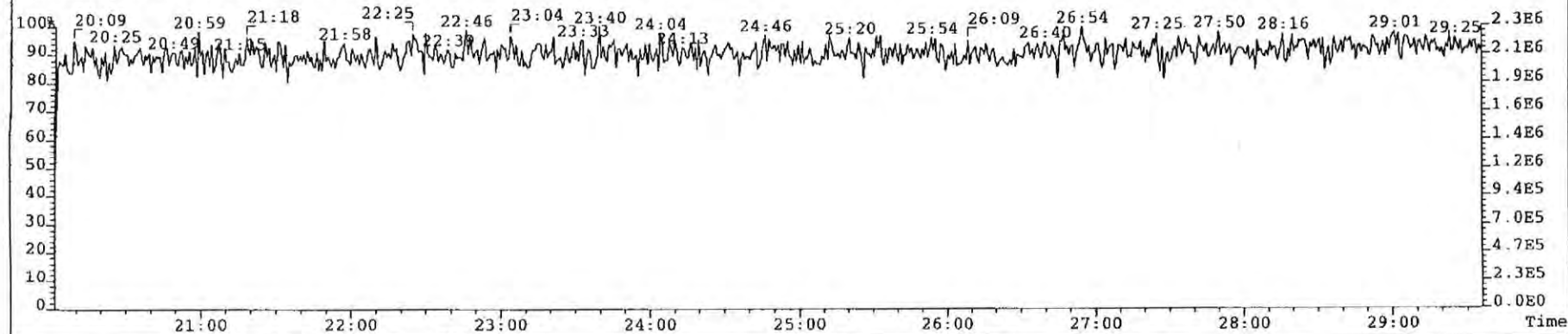
File: 090325P1 Acq: 25-MAR-2009 14:19:58 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5  
339.8597 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 94



341.8568 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 95



316.9824 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

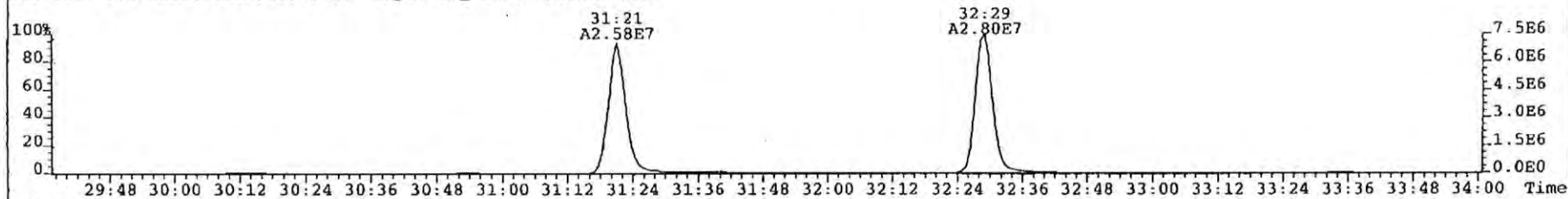




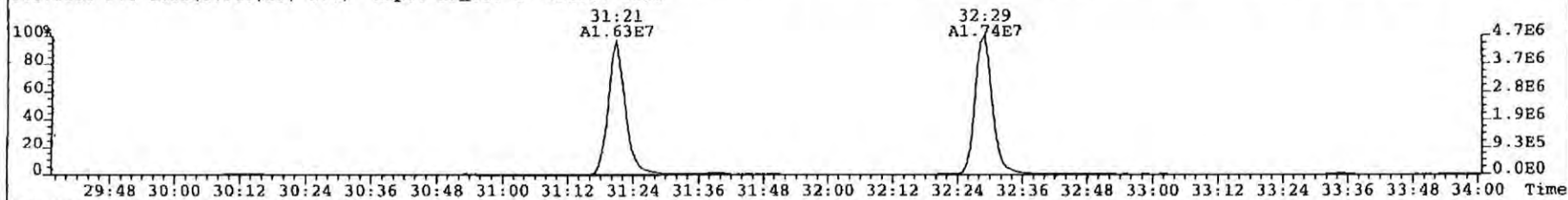
File: 090325P1 Acq: 25-MAR-2009 14:19:58 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5

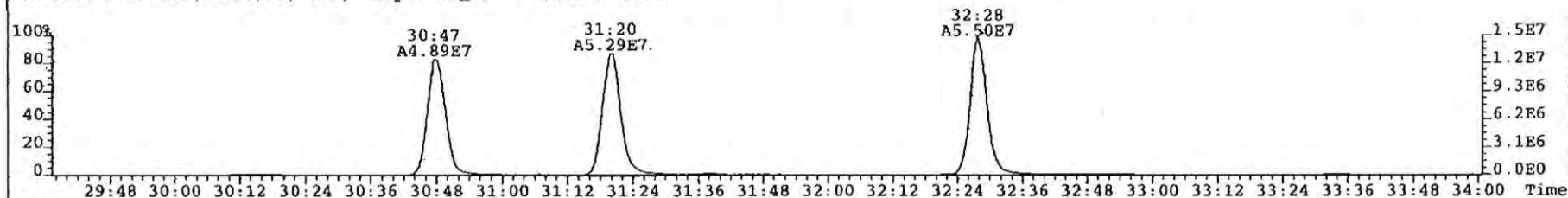
339.8597 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1327



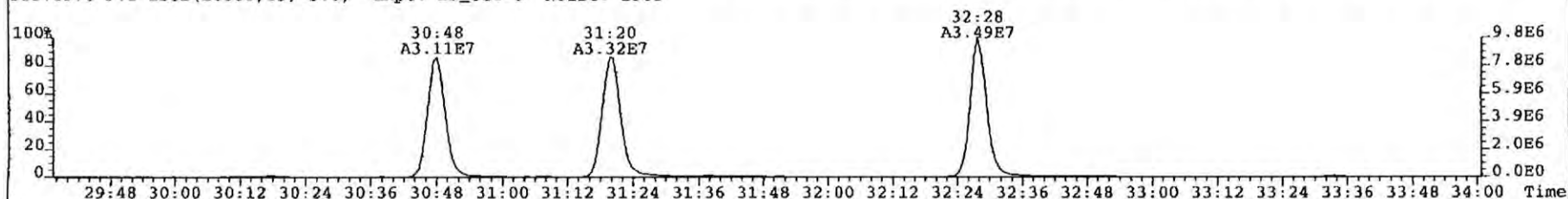
341.8568 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1253



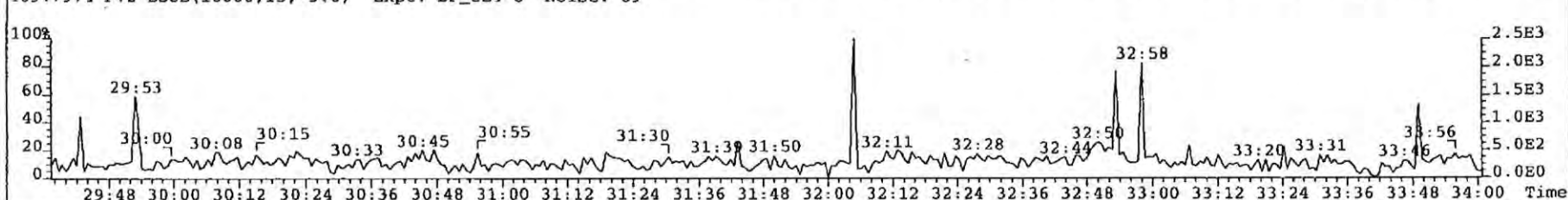
351.9000 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 4640



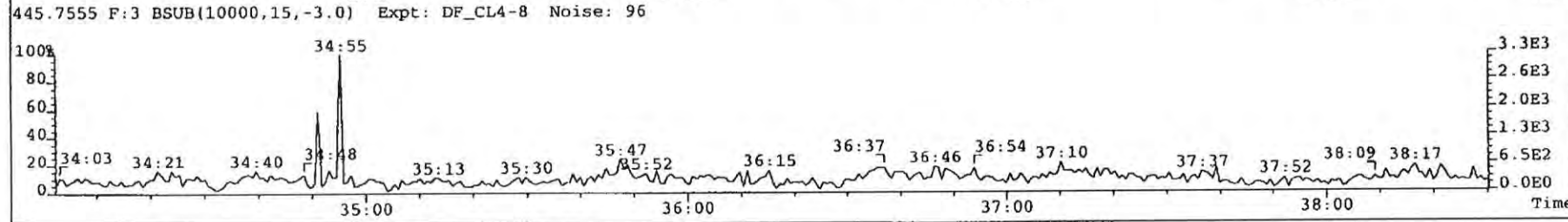
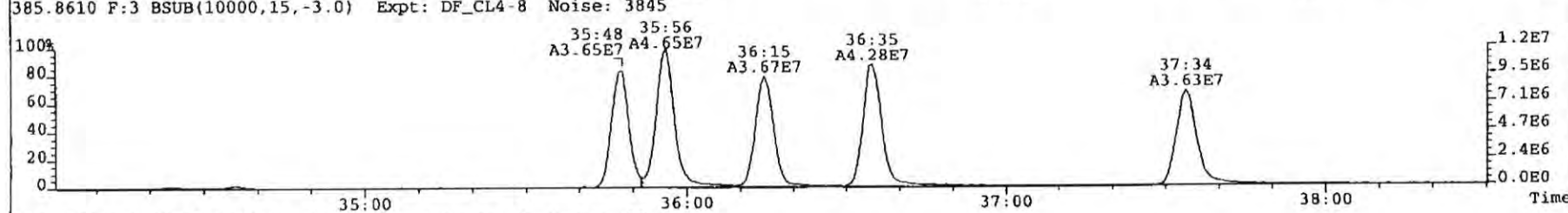
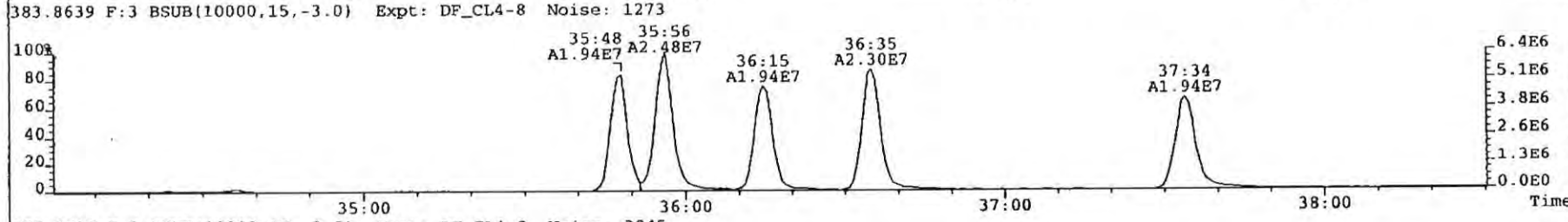
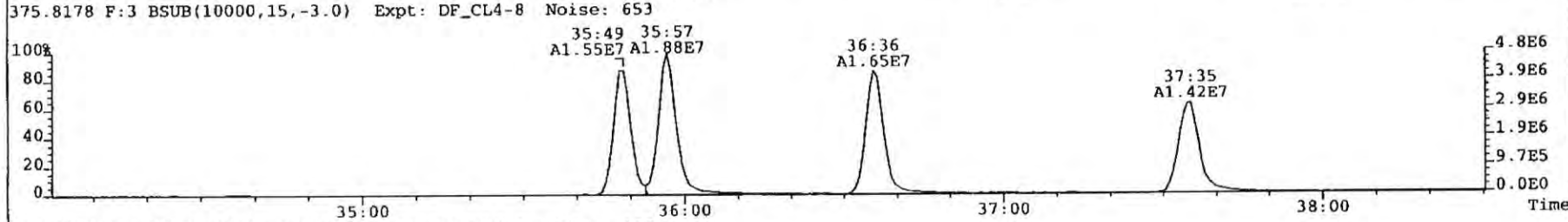
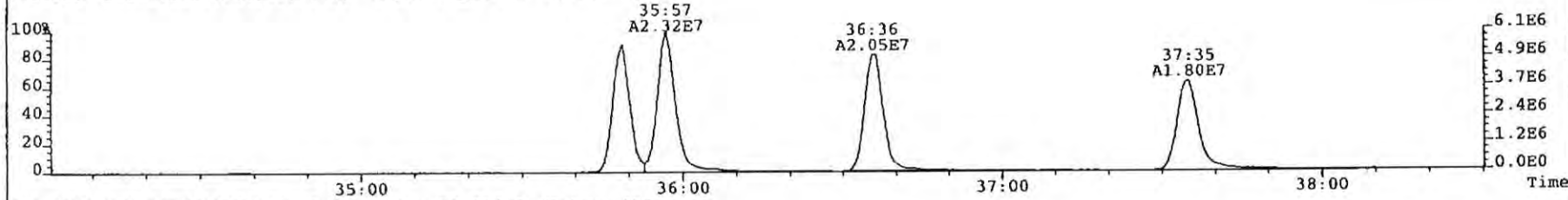
353.8970 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1382



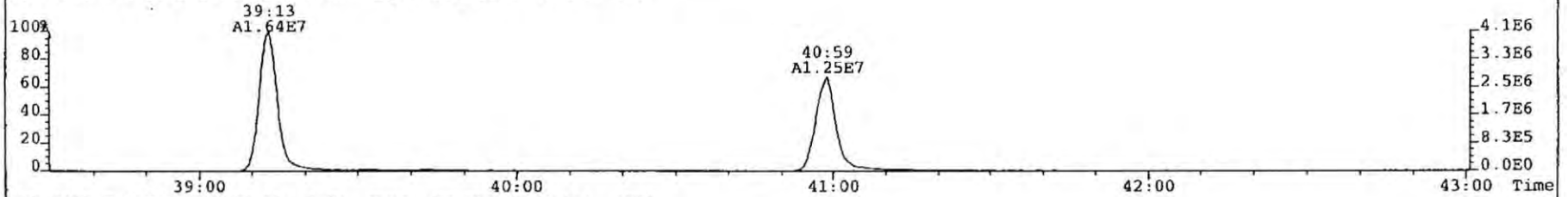
409.7974 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 89



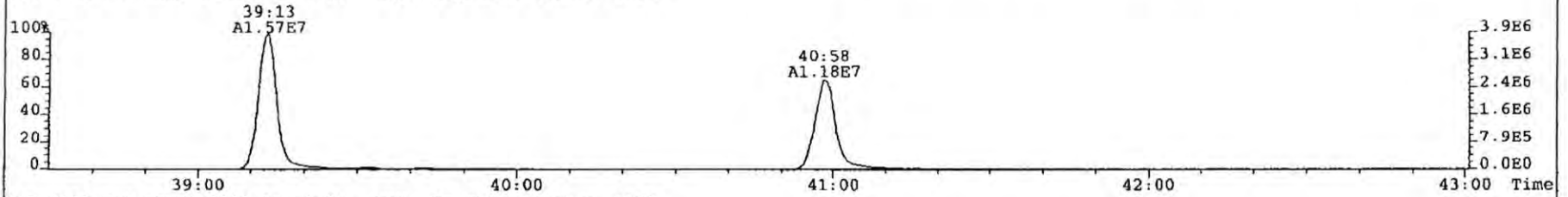
File: 090325P1 Acq: 25-MAR-2009 14:19:58 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5  
373.8207 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 783



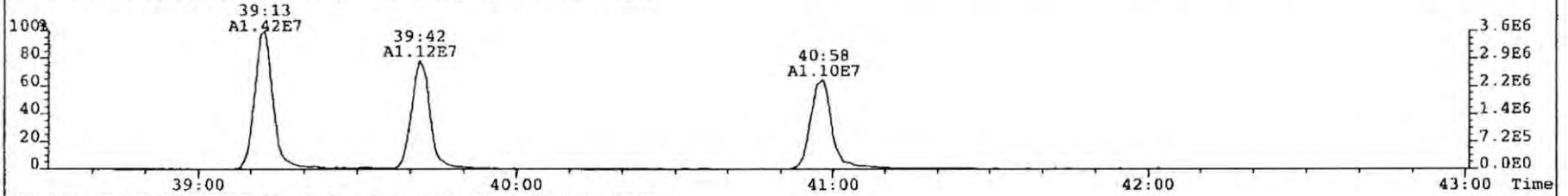
File: 090325P1 Acq: 25-MAR-2009 14:19:58 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5  
407.7818 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 868



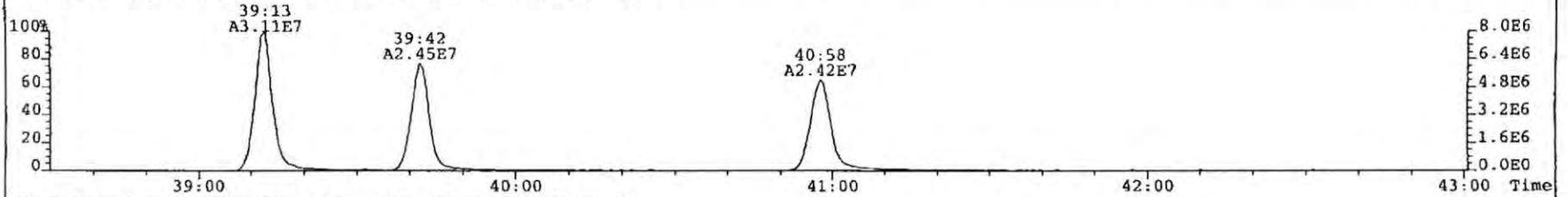
409.7788 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1024



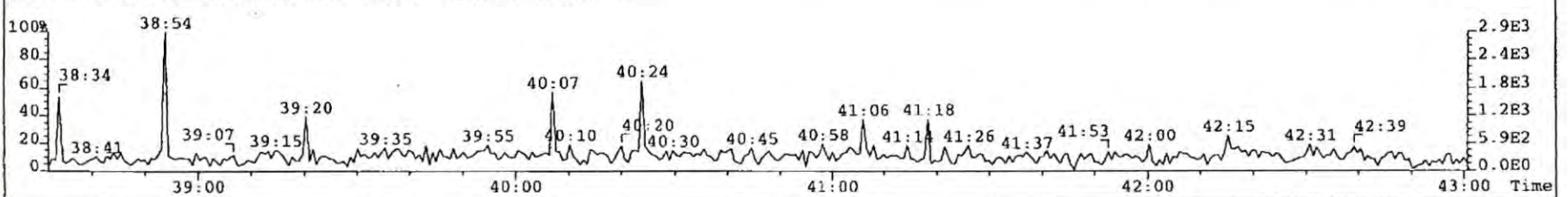
417.8253 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1189



419.8220 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 2437



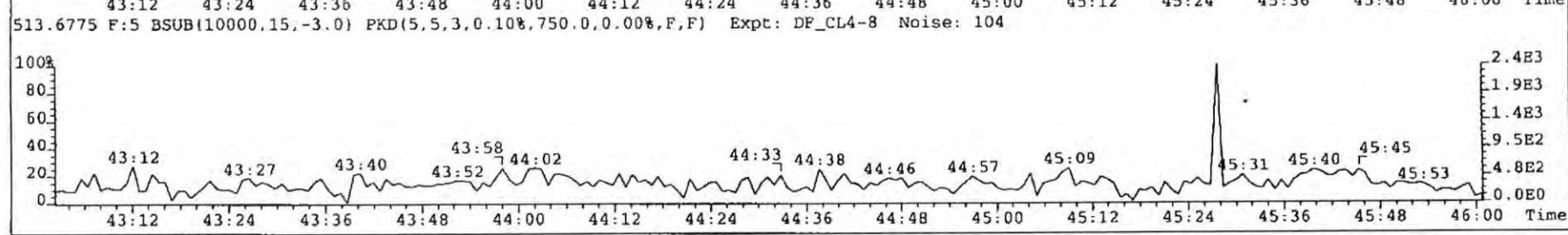
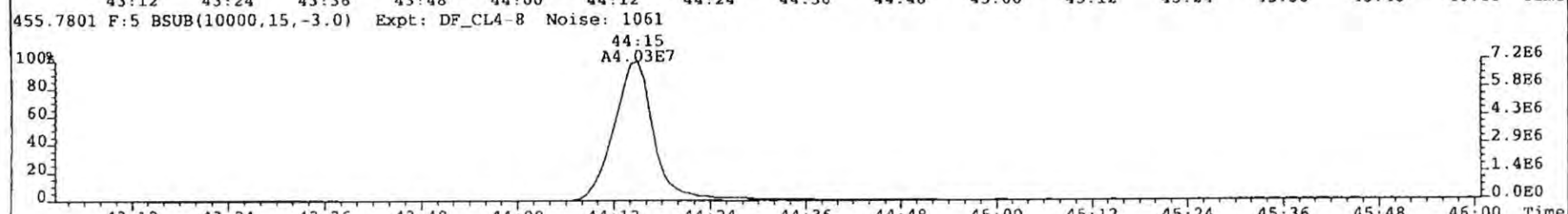
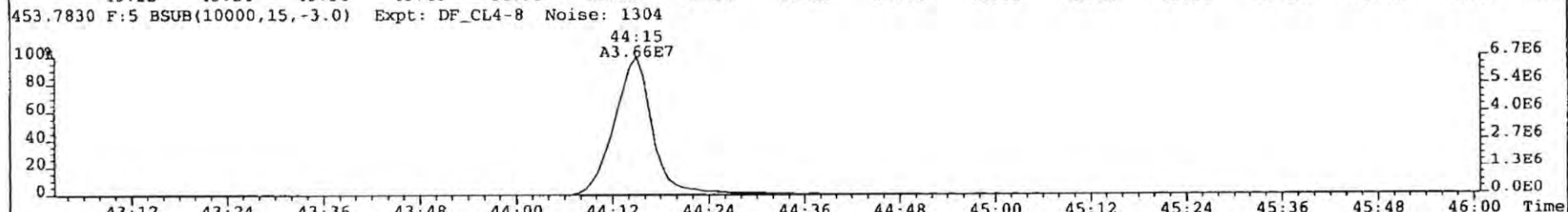
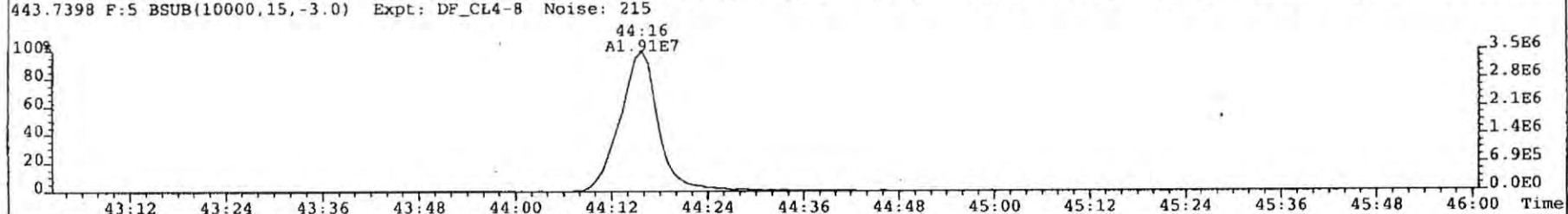
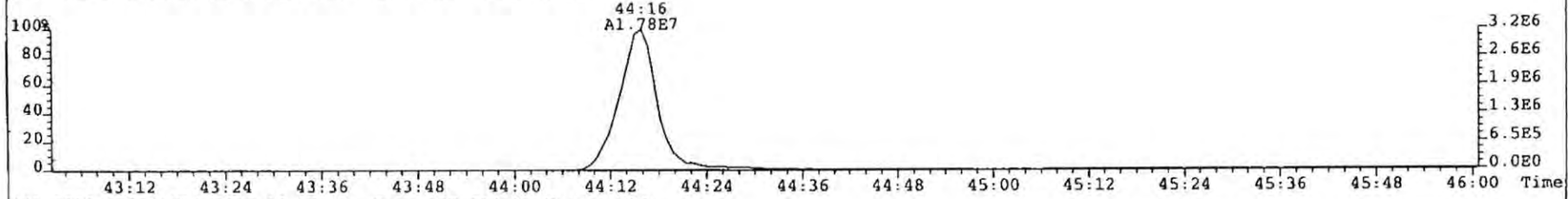
479.7165 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 96







File: 090325P1 Acq: 25-MAR-2009 14:19:58 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5  
441.7428 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 718



FORM 4A  
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Analytical Perspectives Episode No.:

Contract No.: SAS No.:

Initial Calibration: MM1\_DF\_07012007A\_25DE» ✓

GC Column ID: DB-5

VER Data Filename: 090325P2 S#1 Analysis Date: 25-MAR-09 Time: 22:53:18 ✓

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)
2,3,7,8-TCDD	M/M+2	0.82	0.65-0.89	y	10.5	7.8 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	1.61	1.32-1.78	y	52.0	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	51.3	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	52.3	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.25	1.05-1.43	y	51.5	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	51.2	43.0 - 58.0
OCDD	M+2/M+4	0.87	0.76-1.02	y	103.2	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.79	0.65-0.89	y	10.6	8.4 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	51.2	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.61	1.32-1.78	y	52.2	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	y	51.5	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	52.0	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.23	1.05-1.43	y	51.0	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.28	1.05-1.43	y	52.3	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.03	0.88-1.20	y	51.7	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.05	0.88-1.20	y	52.2	43.0 - 58.0
OCDF	M+2/M+4	0.91	0.76-1.02	y	102.8	63.0 - 159.0

Analyst: M

Date: 02 Apr

- (1) See Table 9, 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.

Jan  
7 April 09

FORM 4B  
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Analytical Perspectives Episode No.:

Contract No.: SAS No.:

Initial Calibration: MM1\_DF\_07012007A\_25DE\* /

GC Column ID: DB-5

VER Data Filename: 090325P2 S#1 Analysis Date: 25-MAR-09 Time: 22:53:18 /

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	0.82	0.65-0.89	y	101.8	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.62	1.32-1.78	y	108.9	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	101.4	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	100.3	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.29	1.05-1.43	y	104.5	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.07	0.88-1.20	y	107.1	72.0 - 138.0
13C-OCDD	M+2/M+4	0.86	0.76-1.02	y	195.8	96.0 - 415.0
13C-2,3,7,8-TCDF	M/M+2	0.79	0.65-0.89	y	103.1	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.56	1.32-1.78	y	109.5	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	105.7	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M+2/M+4	0.54	0.43-0.59	y	103.2	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M+2/M+4	0.53	0.43-0.59	y	107.5	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M+2/M+4	0.53	0.43-0.59	y	106.8	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M+2/M+4	0.53	0.43-0.59	y	100.2	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.46	0.37-0.51	y	107.9	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.46	0.37-0.51	y	107.2	77.0 - 129.0
13C-OCDF	M+2/M+4	0.89	0.76-1.02	y	188.4	96.0 - 415.0
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					10.2	7.9 - 12.7
13C-1,2,3,4,7-PeCDD	M+2/M+4	1.68	1.32-1.78	y	121.1	70.0 - 130.0
13C-1,2,3,4,6-PeCDF	M+2/M+4	1.56	1.32-1.78	y	114.3	70.0 - 130.0
13C-1,2,3,4,6,9-HxCDF	M+2/M+4	0.53	0.43-0.59	y	104.7	70.0 - 130.0
13C-1,2,3,4,6,8,9-HpCDF	M+2/M+4	0.47	0.37-0.51	y	108.0	70.0 - 130.0

Analyst: MM  
Date: 02/09/09

(1) See Table 8, Method 1613, for m/z specifications.  
 (2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.  
 (3) Contract-required concentration range, as specified in Table 6, Method 1613  
 (4) No ion abundance ratio; report concentration found.



1013/8290 Sample Summary

Analytical Perspectives

[Form: DF]

Client ID: SIL7-25-4 ✓      Filename: 090325P2      S: 1      Vial: 8      Acq: 25-MAR-09 22:53:18 ✓  
 Lab ID: CS3 ✓      GC column ID: db-5      Cal: MM1\_DF\_07012007A\_25DEC08Wt/Vol: 1.000  
 Sample text: CS3 SIL7-25-4 ✓      Stds: JS (split adj.): 100      CS/SS: 10.0      ES: 100 ✓

Typ	Name	Resp	RA ✓	RT	RRF ✓	Conc.	Noise	Fac	DL ✓	Rec ✓
Ax	2,3,7,8-TCDD	6.77e+06	0.82 y	27:17	1.08	10.5	1464	2.5	0.0417	-
Ax	1,2,3,7,8-PeCDD	2.77e+07	1.61 y	32:49	1.00	52.0	4232	2.5	0.191	-
Ax	1,2,3,4,7,8-HxCDD	2.59e+07	1.25 y	36:46	1.08	51.3	6652	2.5	0.267	-
Ax	1,2,3,6,7,8-HxCDD	2.58e+07	1.23 y	36:53	0.94	52.3	6652	2.5	0.293	-
Ax	1,2,3,7,8,9-HxCDD	2.75e+07	1.25 y	37:11	0.99	51.5	6652	2.5	0.313	-
Ax	1,2,3,4,6,7,8-HpCDD	2.26e+07	1.06 y	40:23	0.97	51.9	6420	2.5	0.326	-
Ax	OCDD	3.01e+07	0.87 y	44:00	1.06	104	7643	2.5	0.631	-
Ax2	OCDD-a	1.77e+06	2.50 y	44:00	0.06	102	1954	2.5	2.70	-
Ax	2,3,7,8-TCDF	1.11e+07	0.79 y	26:22	1.05	10.6	751	2.5	0.0140	-
Ax	1,2,3,7,8-PeCDF	4.78e+07	1.60 y	31:20	0.98	51.2	5489	2.5	0.144	-
Ax	2,3,4,7,8-PeCDF	5.02e+07	1.61 y	32:28	1.01	52.2	5489	2.5	0.137	-
Ax	1,2,3,4,7,8-HxCDF	4.06e+07	1.26 y	35:47	1.22	51.5	10209	2.5	0.179	-
Ax	1,2,3,6,7,8-HxCDF	4.84e+07	1.25 y	35:56	1.15	52.0	10209	2.5	0.160	-
Ax	2,3,4,6,7,8-HxCDF	4.18e+07	1.23 y	36:35	1.13	51.0	10209	2.5	0.185	-
Ax	1,2,3,7,8,9-HxCDF	3.48e+07	1.28 y	37:34	1.12	52.3	10209	2.5	0.244	-
Ax	1,2,3,4,6,7,8-HpCDF	3.76e+07	1.03 y	39:12	1.37	51.7	4187	2.5	0.0777	-
Ax	1,2,3,4,7,8,9-HpCDF	2.93e+07	1.05 y	40:58	1.32	52.7	4187	2.5	0.119	-
Ax	OCDF	4.02e+07	0.91 y	44:14	0.94	103	8777	2.5	0.559	-
Ax2	OCDF-a	2.27e+06	2.79 y	44:14	0.05	103	3135	2.5	3.55	-
ES	13C-2,3,7,8-TCDD	5.93e+07	0.82 y	27:15	0.99	102	2851	2.5	0.0918	102
ES	13C-1,2,3,7,8-PeCDD	5.34e+07	1.62 y	32:48	0.83	109	8008	2.5	0.307	109
ES	13C-1,2,3,4,7,8-HxCDD	4.67e+07	1.28 y	36:45	1.08	101	13094	2.5	0.567	101
ES	13C-1,2,3,6,7,8-HxCDD	5.23e+07	1.27 y	36:52	1.23	100	13094	2.5	0.501	100
ES	13C-1,2,3,7,8,9-HxCDD	5.38e+07	1.29 y	37:10	1.21	105	13094	2.5	0.507	105
ES	13C-1,2,3,4,6,7,8-HpCDD	4.48e+07	1.07 y	40:22	0.98	107	8617	2.5	0.411	107
ES	13C-OCDD	5.47e+07	0.86 y	43:59	0.66	195	15568	2.5	1.11	97.5
ES	13C-2,3,7,8-TCDF	1.00e+08	0.79 y	26:20	0.96	103	804	2.5	0.0178	103
ES	13C-1,2,3,7,8-PeCDF	9.48e+07	1.56 y	31:19	0.85	109	10775	2.5	0.268	109
ES	13C-2,3,4,7,8-PeCDF	9.48e+07	1.58 y	32:27	0.88	106	10775	2.5	0.259	106
ES	13C-1,2,3,4,7,8-HxCDF	6.47e+07	0.54 y	35:46	1.47	103	33850	2.5	1.08	103
ES	13C-1,2,3,6,7,8-HxCDF	8.09e+07	0.53 y	35:55	1.78	107	33850	2.5	0.894	107
ES	13C-2,3,4,6,7,8-HxCDF	7.25e+07	0.53 y	36:34	1.61	106	33850	2.5	0.986	106
ES	13C-1,2,3,7,8,9-HxCDF	5.97e+07	0.53 y	37:33	1.40	100	33850	2.5	1.13	100
ES	13C-1,2,3,4,6,7,8-HpCDF	5.33e+07	0.46 y	39:11	1.16	108	24071	2.5	0.972	108
ES	13C-1,2,3,4,7,8,9-HpCDF	4.20e+07	0.46 y	40:57	0.92	107	24071	2.5	1.22	107
ES	13C-OCDF	8.31e+07	0.89 y	44:13	1.04	188	17784	2.5	0.803	94.2
CS	37C1-2,3,7,8-TCDD	5.98e+06		27:17	0.99	10.3			0.885	103
CS	13C-1,2,3,4,7-PeCDD	5.47e+07	1.68 y	32:18	0.77	121	8008	2.5	0.333	121
CS	13C-1,2,3,4,6-PeCDF	9.20e+07	1.56 y	30:47	0.79	114	10775	2.5	0.288	114
CS	13C-1,2,3,4,6,9-HxCDF	6.29e+07	0.53 y	36:14	1.41	105	33850	2.5	1.12	105
CS	13C-1,2,3,4,6,8,9-HpCDF	4.18e+07	0.47 y	39:41	0.91	108	24071	2.5	1.24	108
NA	n/a	*	* n	NotF*	Div0	*	973	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	5.87e+07	0.82 y	26:36	-	167	2851	2.5	-	-
JS	13C-1,2,3,4-TCDF	1.02e+08	0.79 y	24:56	-	183	804	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	2.13e+07	1.29 y	37:03	-	97.7	1181	2.5	-	-

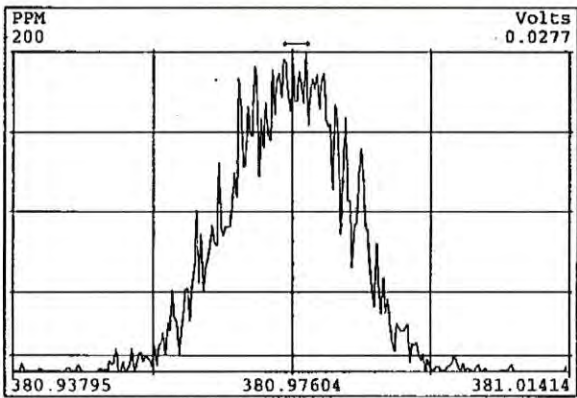
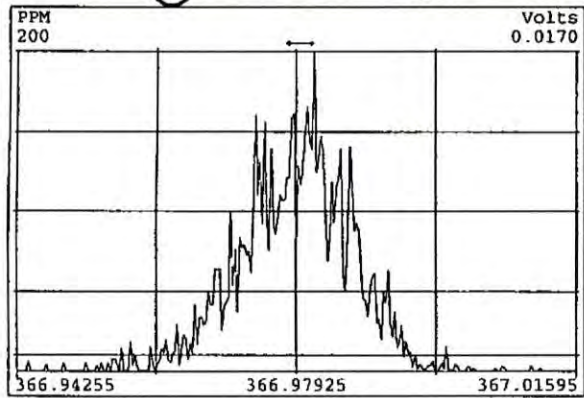
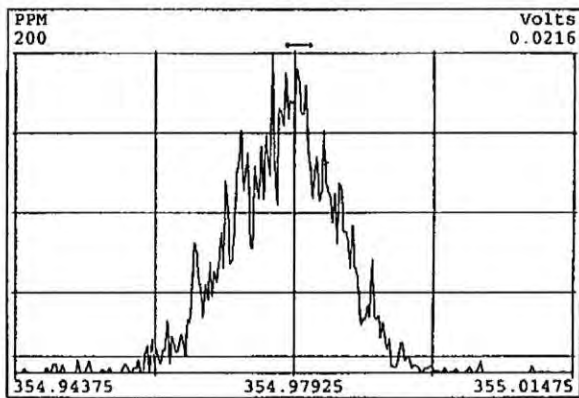
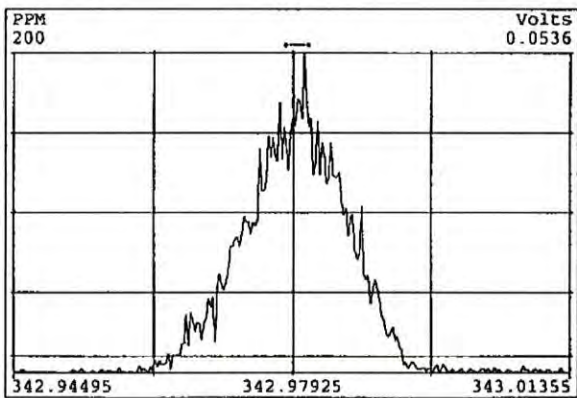
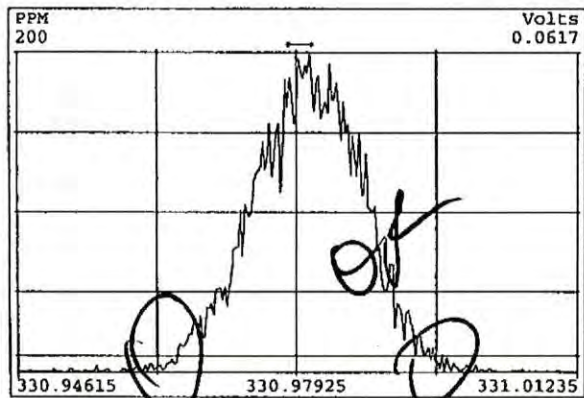
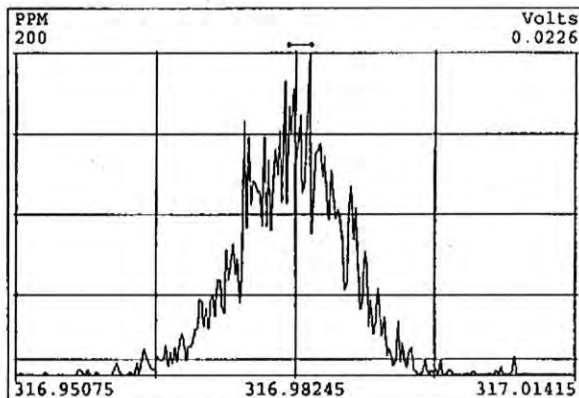
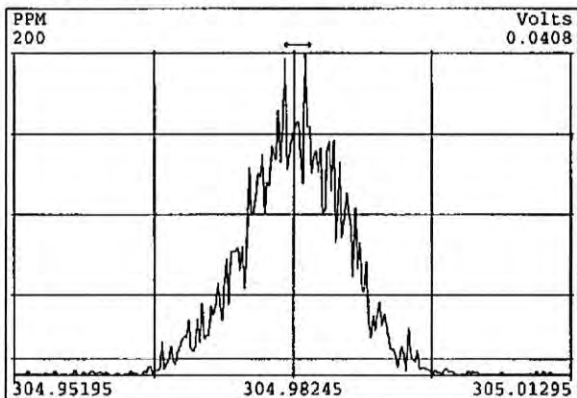
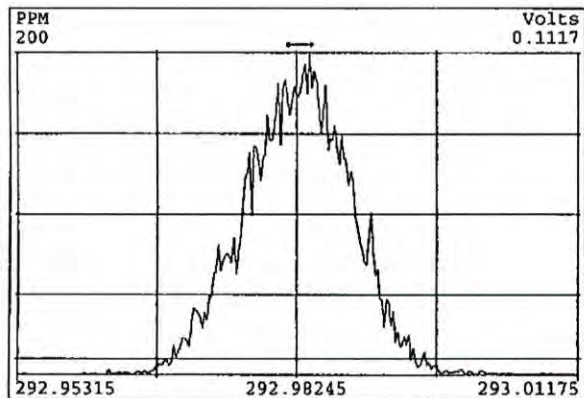
Analysis  
 Date: *[Signature]*

SS	37Cl-2,3,7,8-TCDD	5.98e+06		27:17	1.00	10.1		0.844	101
SS	13C-1,2,3,4,7-PeCDD	5.47e+07	1.68 y	32:18	0.93	110	8008 2.5	0.388	110
SS	13C-1,2,3,4,6-PeCDF	9.20e+07	1.56 y	30:47	0.94	104	10775 2.5	0.296	104
SS	13C-1,2,3,4,6,9-HxCDF	6.29e+07	0.53 y	36:14	0.80	97.0	33850 2.5	0.763	97.0
SS	13C-1,2,3,4,6,8,9-HpCDF	4.18e+07	0.47 y	39:41	0.79	99.2	24071 2.5	0.771	99.2
SBS	2,4,6,8-TCDF	*	* n	NotF>	1.05	*	751 2.5	0.0140	-
Ay	1,3,6,8-TCDD	*	* n	NotF>	1.08	*	1464 2.5	0.0417	-
Ay	1,2,3,9-TCDD	*	* n	NotF>	1.08	*	1464 2.5	0.0417	-
Ay	1,2,8,9-TCDD	*	* n	NotF>	1.08	*	1464 2.5	0.0417	-
Ay	1,2,4,7,9-PeCDD	*	* n	NotF>	1.00	*	4232 2.5	0.191	-
Ay	1,2,3,8,9-PeCDD	*	* n	NotF>	1.00	*	4232 2.5	0.191	-
Ay	1,2,4,6,7,9-HxCDD	*	* n	NotF>	1.00	*	6652 2.5	0.291	-
Ay	1,2,3,4,6,7,9-HpCDD	4.53e+05	0.99 y	39:31	0.97	1.04	6420 2.5	0.326	-
Ay	1,3,6,8-TCDF	*	* n	NotF>	1.05	*	751 2.5	0.0140	-
Ay	2,3,4,8-TCDF	1.11e+07	0.79 y	26:22	1.05	10.6	751 2.5	0.0140	-
Ay	1,2,8,9-TCDF	*	* n	NotF>	1.05	*	751 2.5	0.0140	-
Ay	1,3,4,6,8-PeCDF	*	* n	NotF>	1.05	*	1180 2.5	0.0221	-
Ay	1,2,3,8,9-PeCDF	4.34e+05	1.74 y	33:34	1.00	0.458	5489 2.5	0.140	-
Ay	1,2,3,4,6,8-HxCDF	*	* n	NotF>	1.15	*	10209 2.5	0.189	-
Tot	Total Tetra-Dioxins	6.80e+06	0.82 y	27:17	1.08	10.6	1464 2.5	0.0417	-
Tot	Total Penta-Dioxins	2.78e+07	1.66 y	31:35	1.00	52.1	4232 2.5	0.191	-
Tot	Total Hexa-Dioxins	7.93e+07	1.25 y	36:46	1.00	155	6652 2.5	0.291	-
Tot	Total Hepta-Dioxins	2.31e+07	0.99 y	39:31	0.97	52.9	6420 2.5	0.326	-
Tot	Total Tetra-Furans	1.13e+07	0.67 y	25:26	1.05	10.8	751 2.5	0.0140	-
Tot	Total Penta-Furans	9.99e+07	1.44 y	30:53	1.00	105	5489 2.5	0.140	-
Tot	Total Hexa-Furans	1.66e+08	1.26 y	35:47	1.15	207	10209 2.5	0.189	-
Tot	Total Hepta-Furans	6.69e+07	1.03 y	39:12	1.35	104	4187 2.5	0.0954	-
Tot	TCDD EMPC	6.82e+06	2.51 y	24:56	1.08	10.6	1464 2.5	0.0417	-
Tot	PeCDD EMPC	2.79e+07	1.66 y	31:35	1.00	52.4	4232 2.5	0.191	-
Tot	HxCDD EMPC	7.94e+07	1.25 y	36:46	1.00	155	6652 2.5	0.291	-
Tot	HpCDD EMPC	2.31e+07	0.99 y	39:31	0.97	52.9	6420 2.5	0.326	-
Tot	TCDF EMPC	1.15e+07	1.09 y	23:00	1.05	11.0	751 2.5	0.0140	-
Tot	PeCDF EMPC	1.00e+08	1.44 y	30:53	1.00	106	5489 2.5	0.140	-
Tot	HxCDF EMPC	1.66e+08	1.26 y	35:47	1.15	207	10209 2.5	0.189	-
Tot	HpCDF EMPC	6.71e+07	1.03 y	39:12	1.35	105	4187 2.5	0.0954	-
AS	13C-1,3,6,8-TCDD	6.48e+07	0.81 y	23:24	1.09	101	2851 2.5	0.0838	101
AS	13C-1,3,6,8-TCDF	1.14e+08	0.77 y	21:12	1.09	104	804 2.5	0.0157	104
DPE	HxCdPE	*		NotF>	-	*	-	-	-
DPE	HpCdPE	*		NotF>	-	*	-	-	-
DPE	OCdPE	*		NotF>	-	*	-	-	-
DPE	NCdPE	*		NotF>	-	*	-	-	-
DPE	DCdPE	*		NotF>	-	*	-	-	-
LMC	Fn1 check mass	*		NotF>	-	*	-	-	-
LMC	Fn2 check mass	*		NotF>	-	*	-	-	-
LMC	Fn3 check mass	*		NotF>	-	*	-	-	-
LMC	Fn4 check mass	*		NotF>	-	*	-	-	-
LMC	Fn5 check mass	*		NotF>	-	*	-	-	-

*nr*

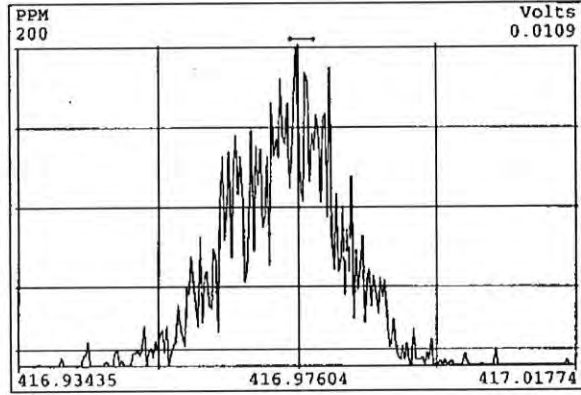
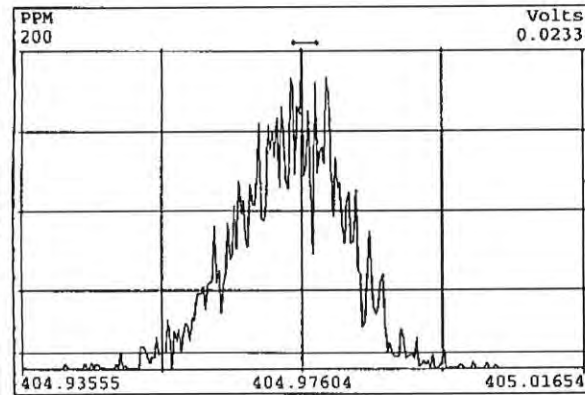
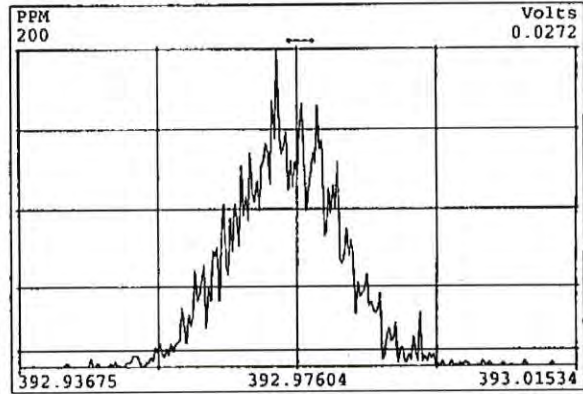
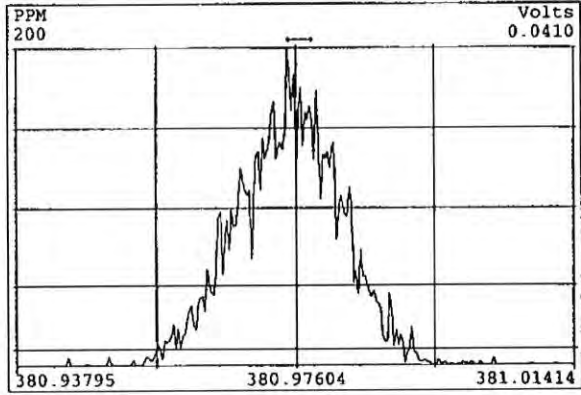
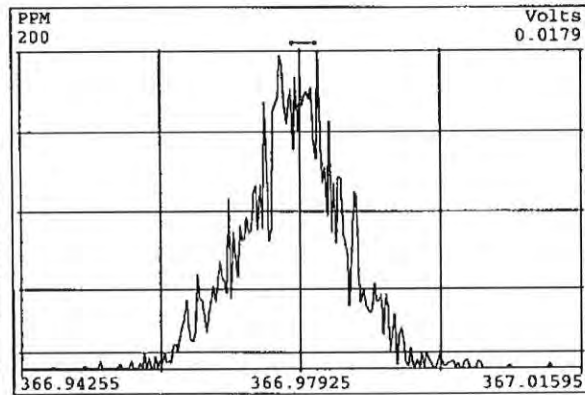
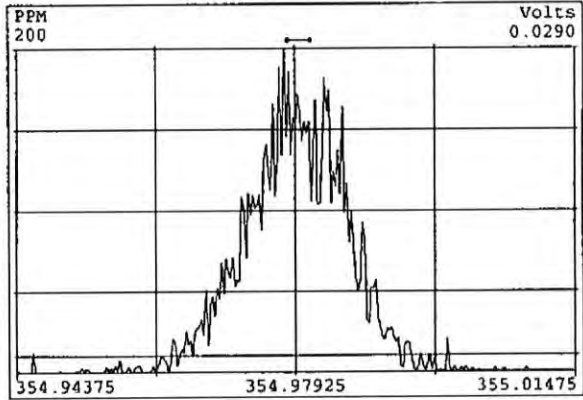
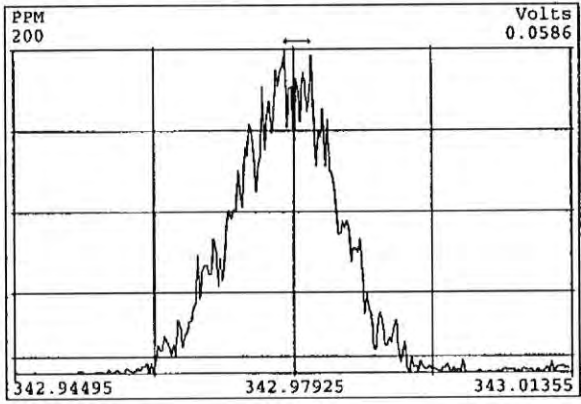
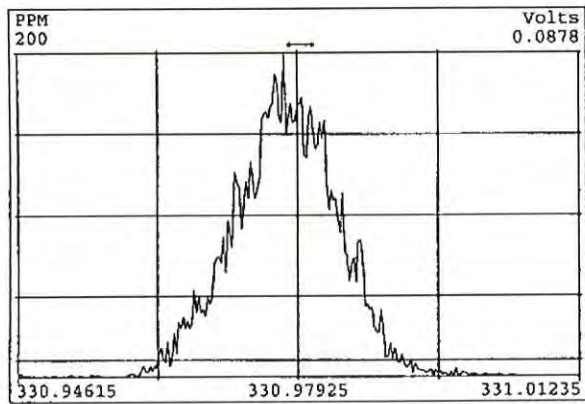
*ok 2 Apr 09*

Peak Locate Examination: 25-MAR-2009:22:48 File: MML\_RES\_CHECK  
Experiment: DF\_CL4-8 Function: 1 Reference: PFK2

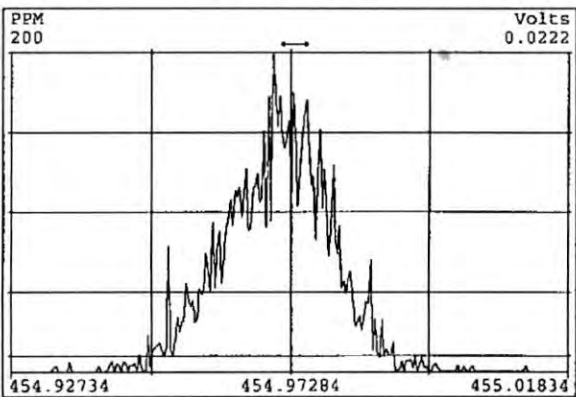
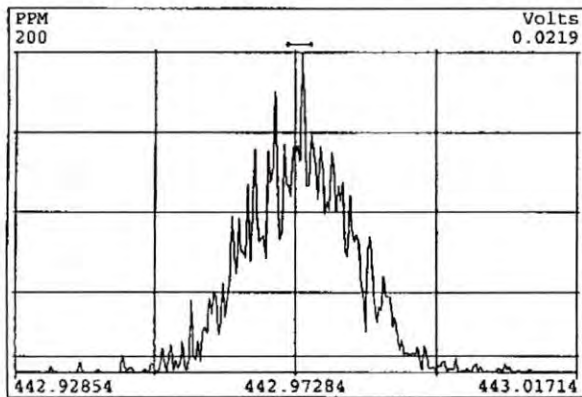
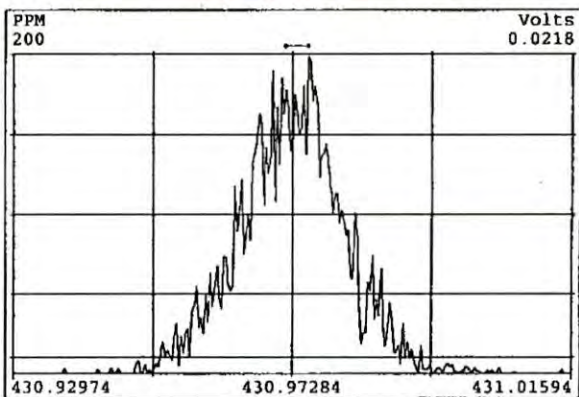
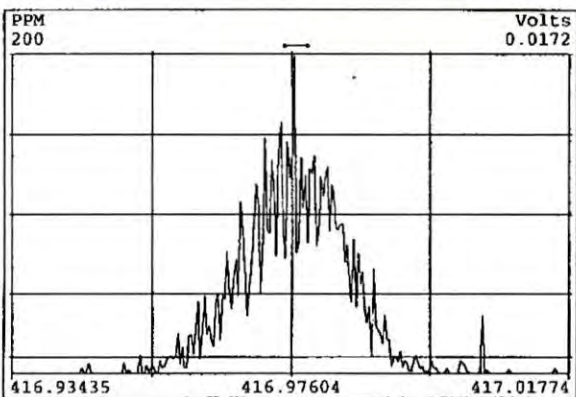
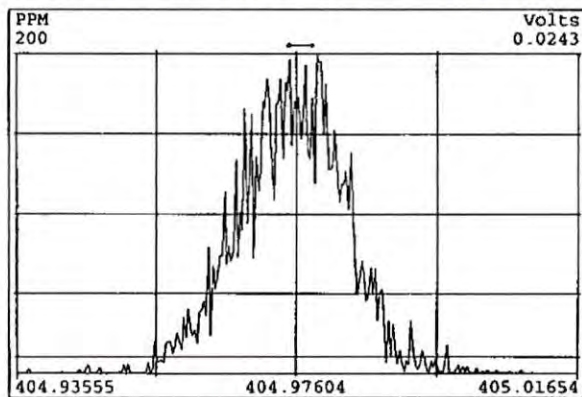
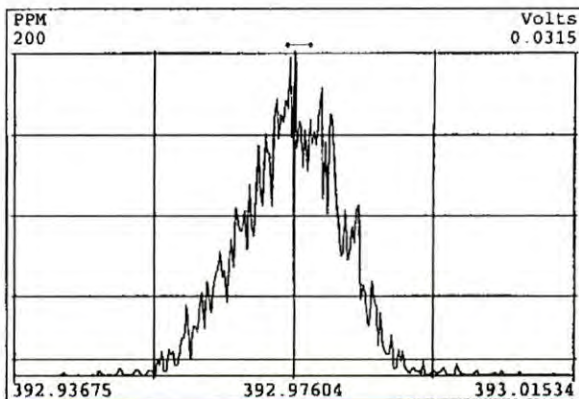
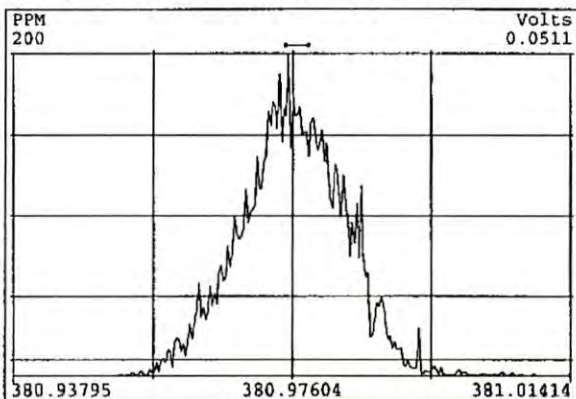
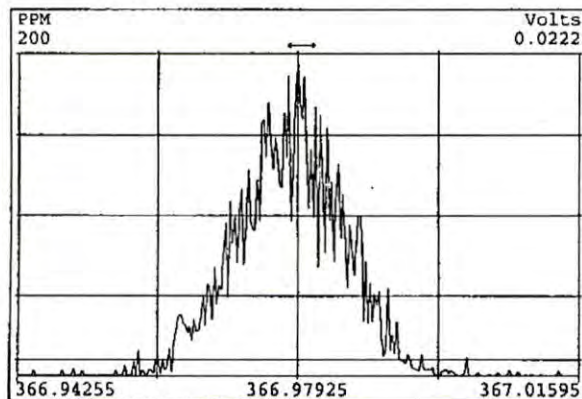




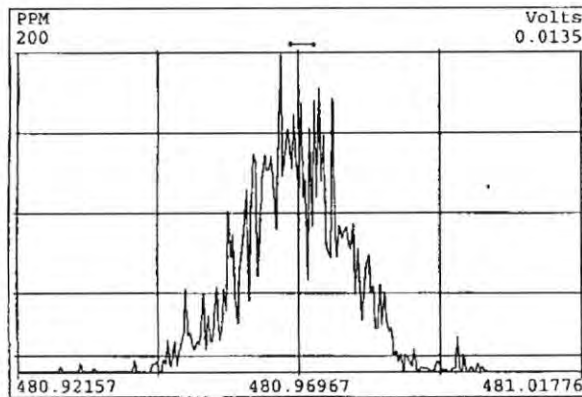
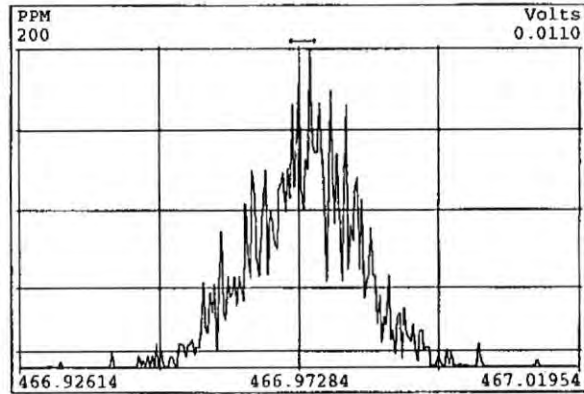
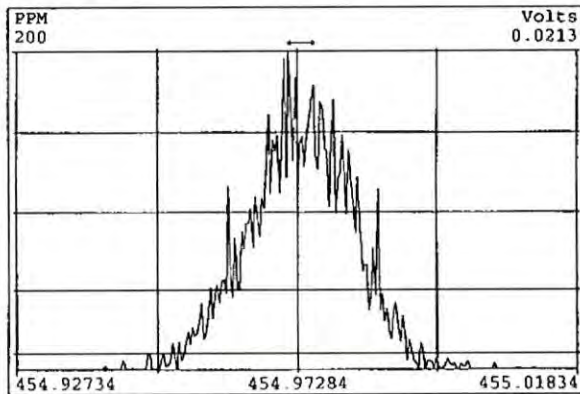
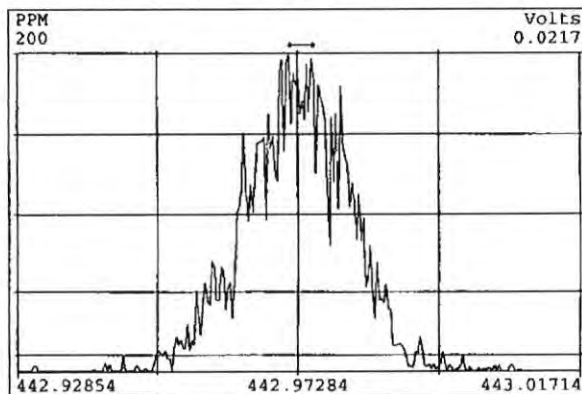
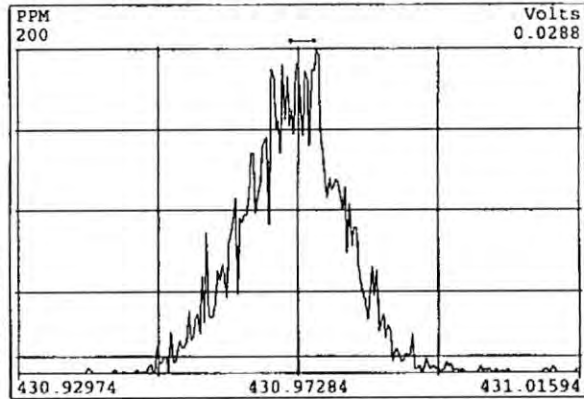
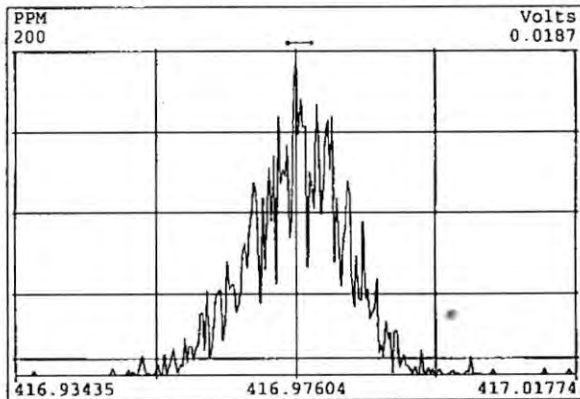
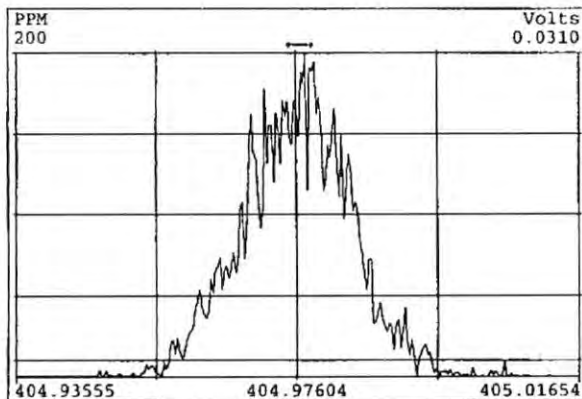
Peak Locate Examination:25-MAR-2009:22:49 File:MM1\_RES\_CHECK  
Experiment:DF\_CL4-8 Function:2 Reference:PFK2



Peak Locate Examination: 25-MAR-2009:22:50. File: MML\_RES\_CHECK  
Experiment: DF\_CL4-8 Function: 3 Reference: PFK2

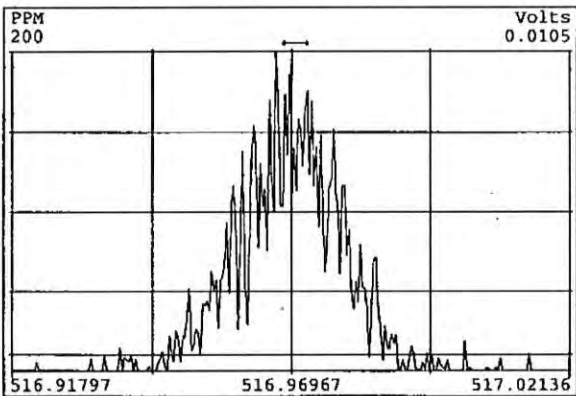
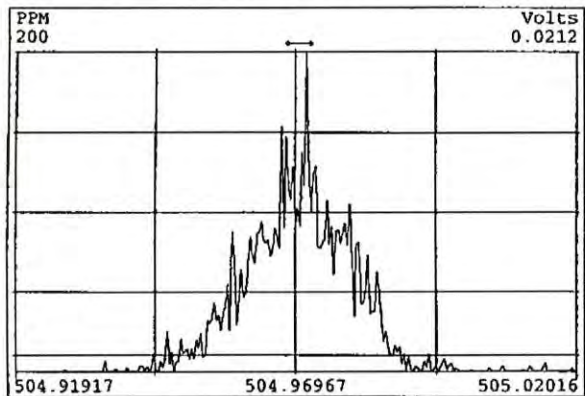
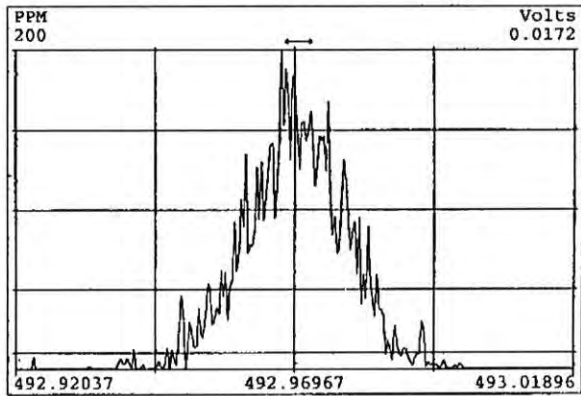
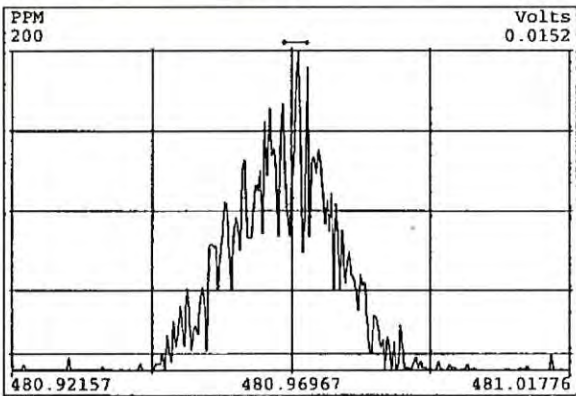
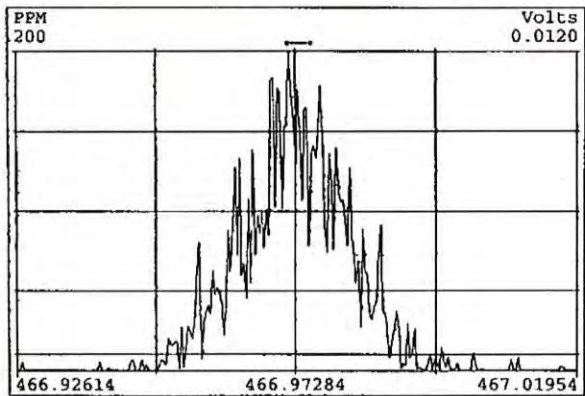
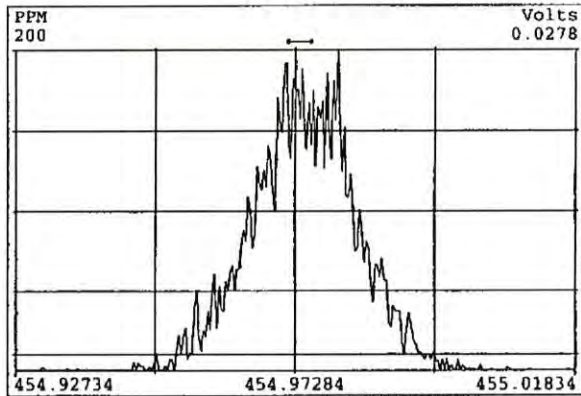
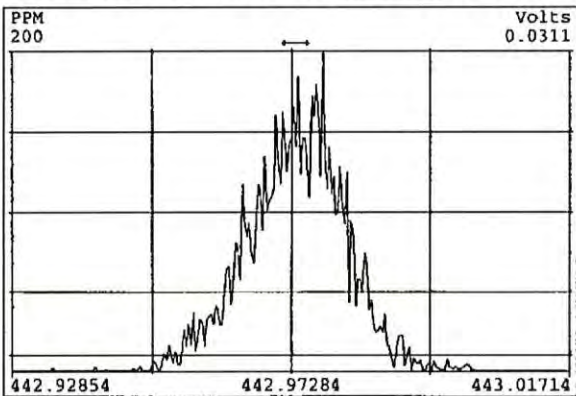
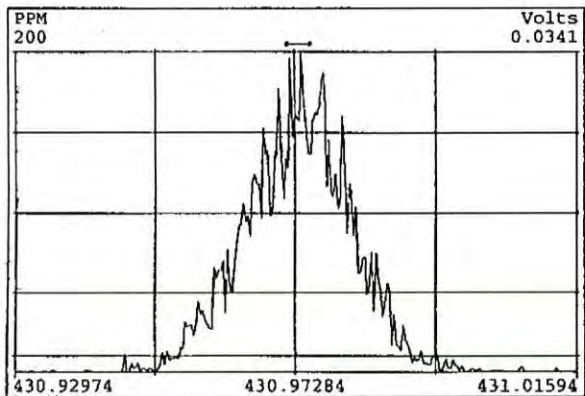


Peak Locate Examination:25-MAR-2009:22:51 File:MM1\_RES\_CHECK  
Experiment:DF\_CL4-8 Function:4 Reference:PFK2

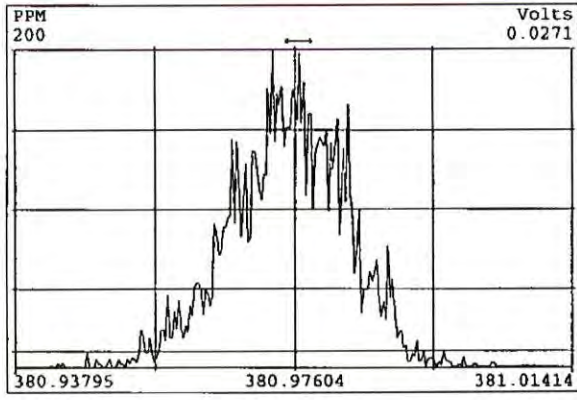
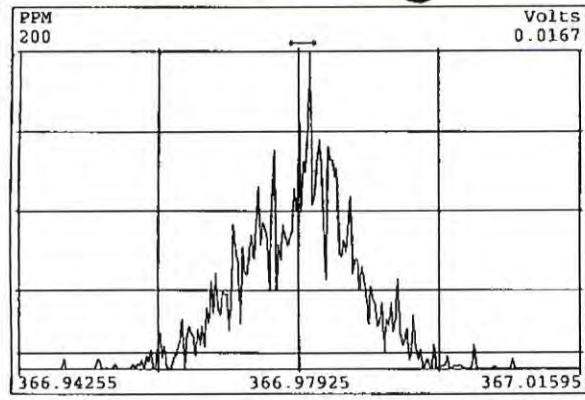
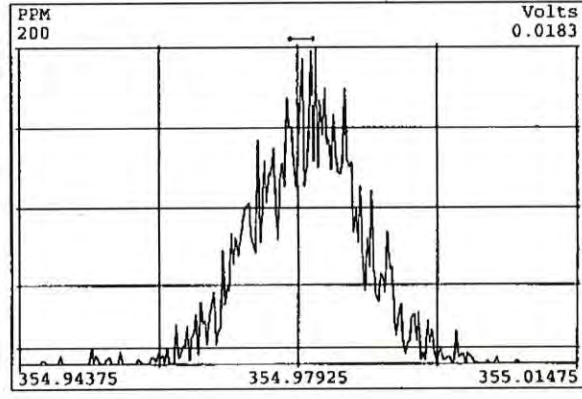
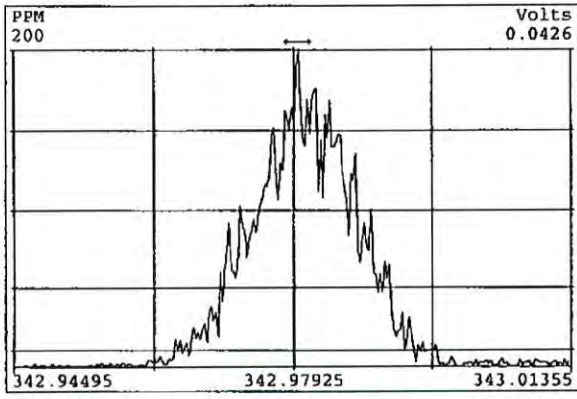
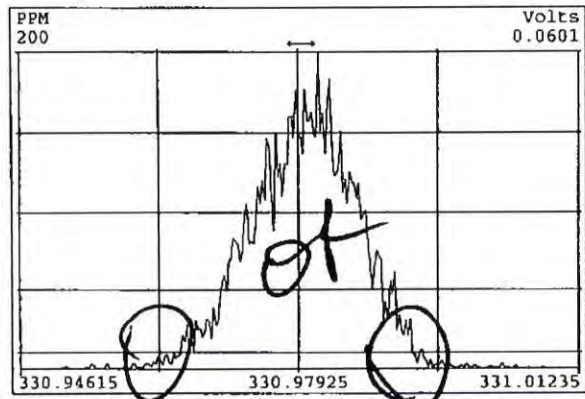
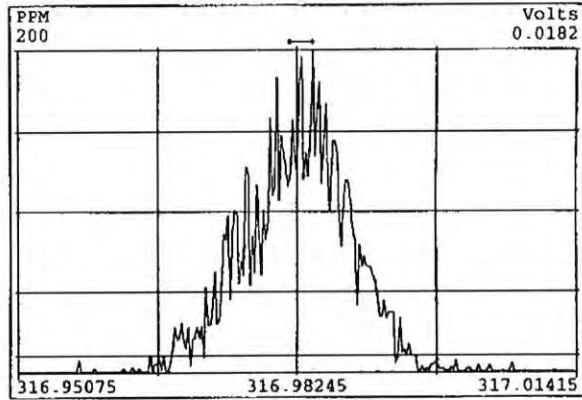
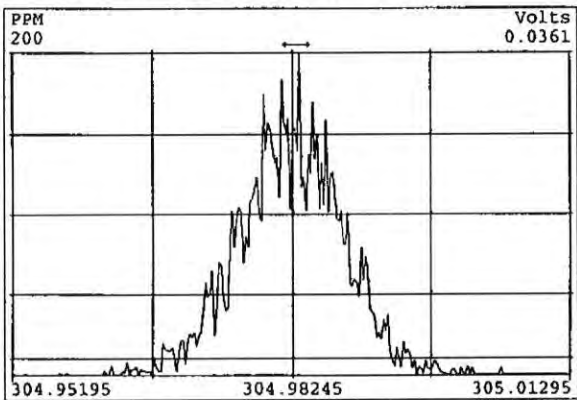
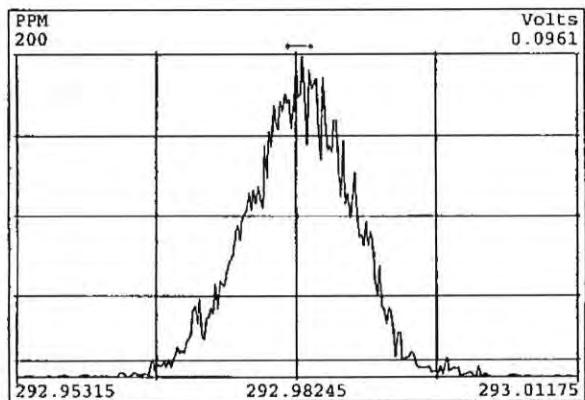




Peak Locate Examination: 25-MAR-2009:22:52 File:MMI\_RES\_CHECK  
Experiment:DF\_CL4-8 Function:5 Reference:PFK2

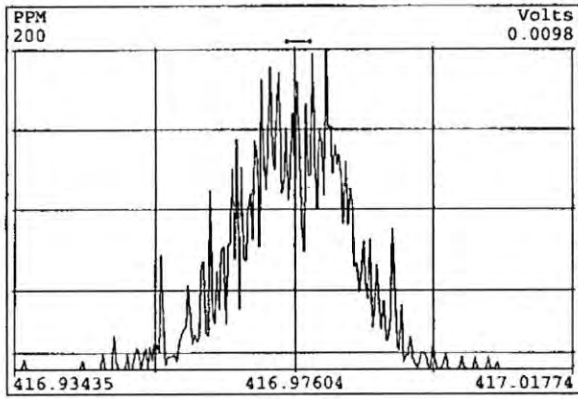
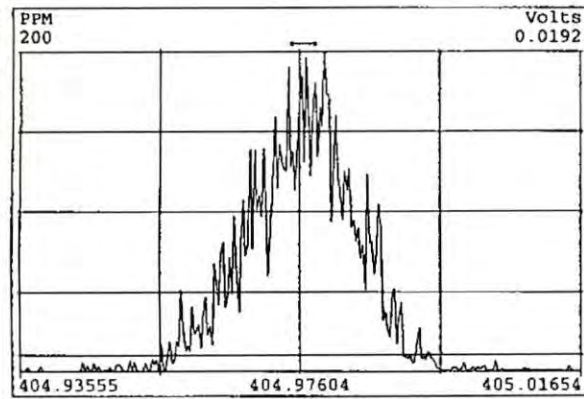
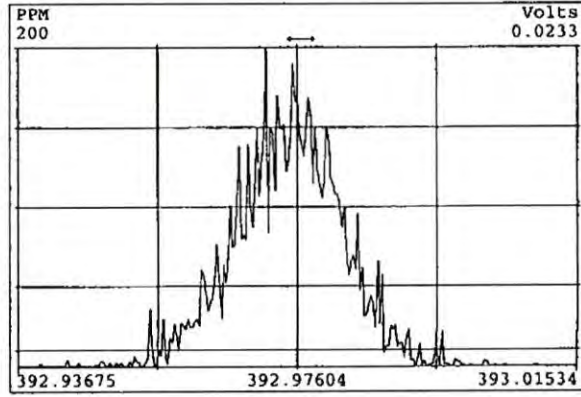
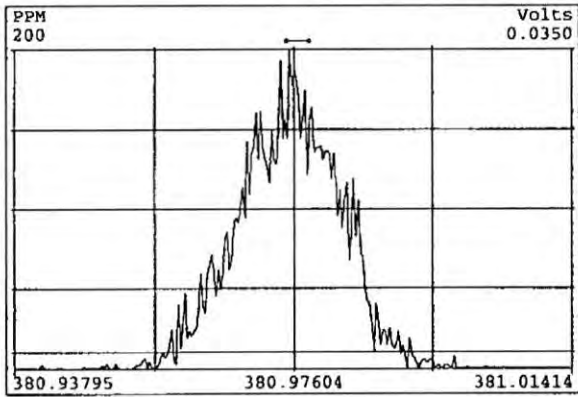
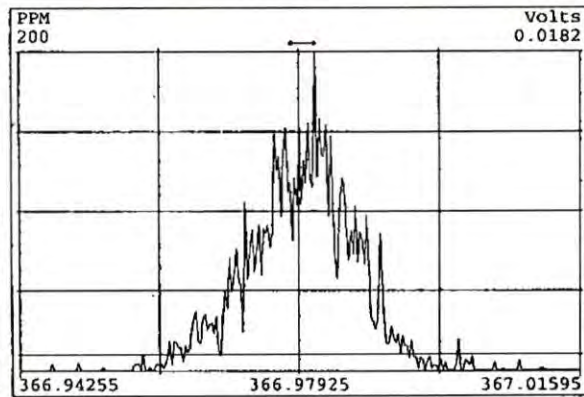
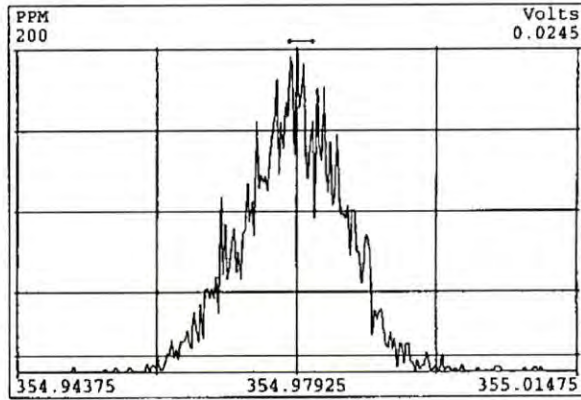
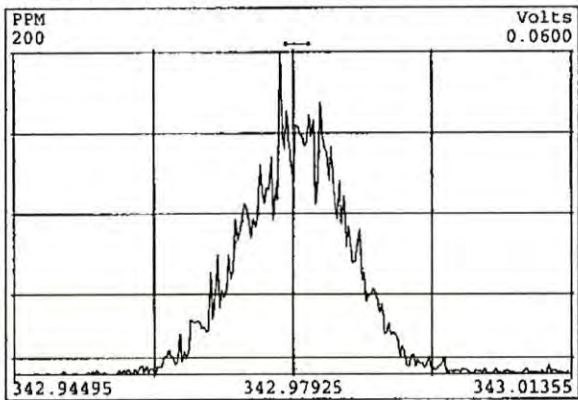
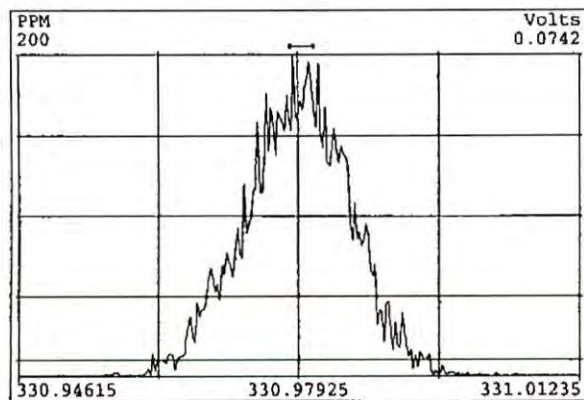


Peak Locate Examination:26-MAR-2009:05:38 File:MM1\_RES\_CHECK  
Experiment:DF\_CL4-8 Function:1 Reference:PFK2



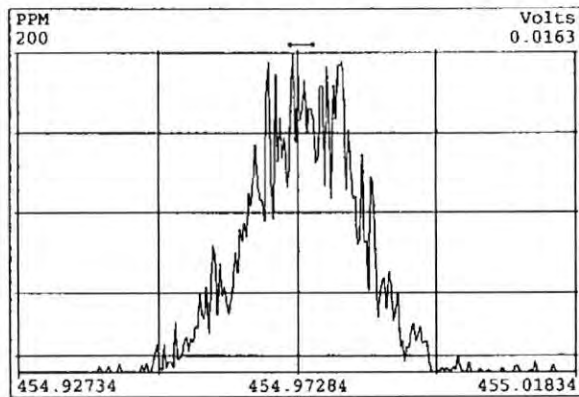
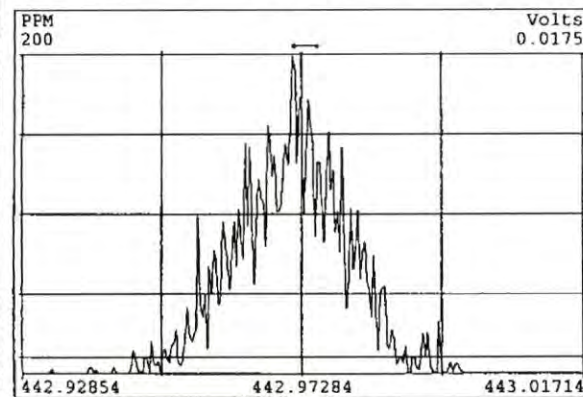
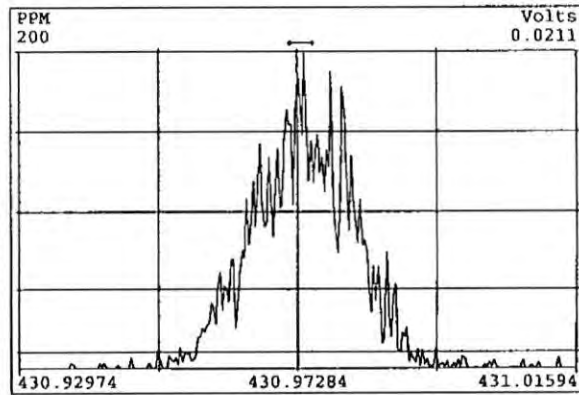
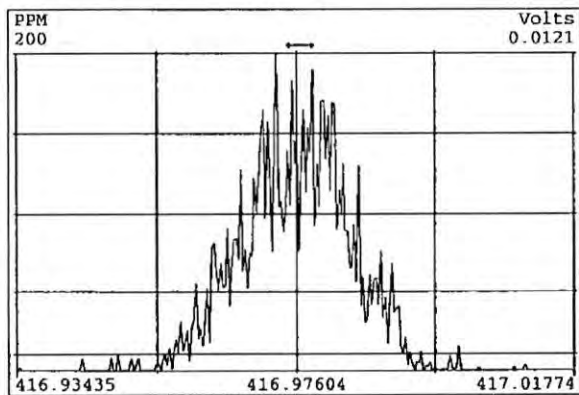
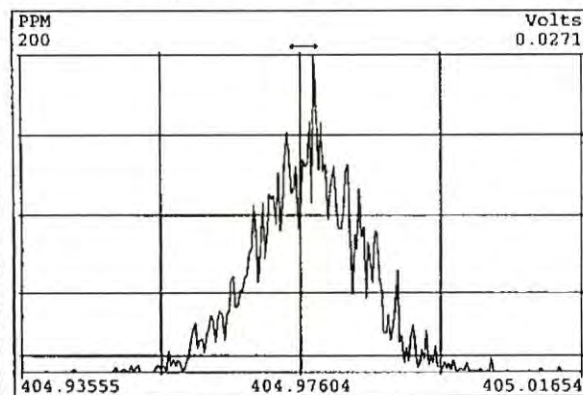
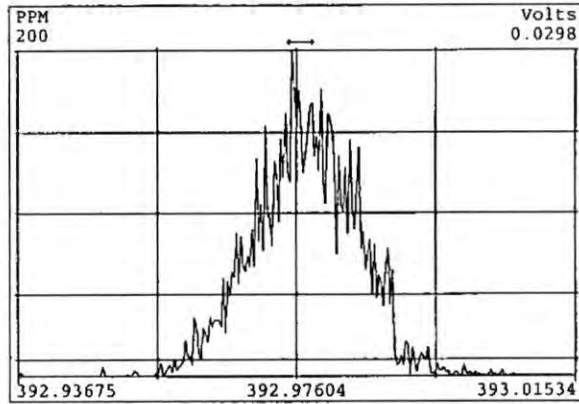
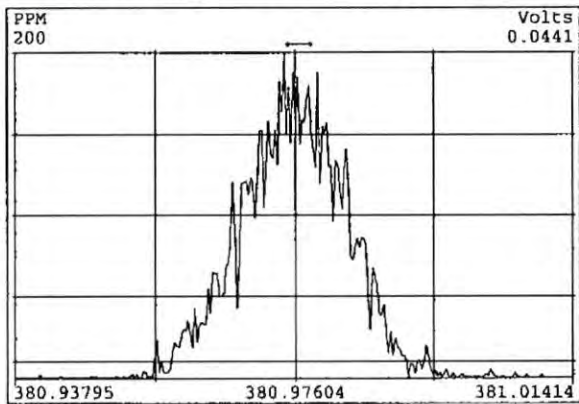
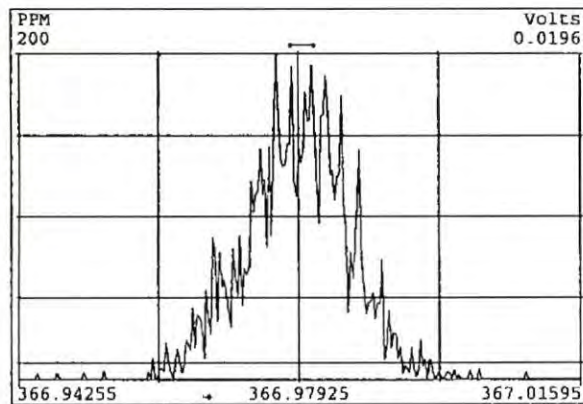


Peak Locate Examination: 26-MAR-2009:05:39 File: MM1\_RES\_CHECK  
Experiment: DF\_CL4-8 Function: 2 Reference: PFK2

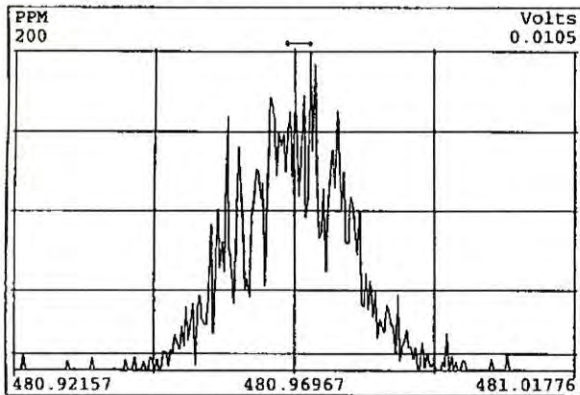
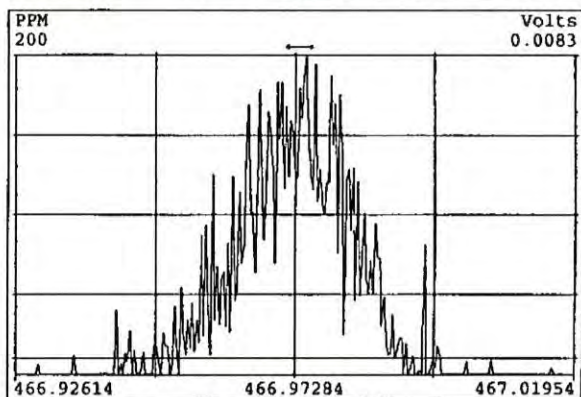
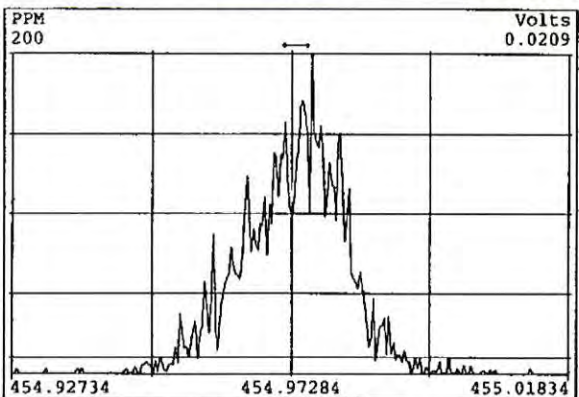
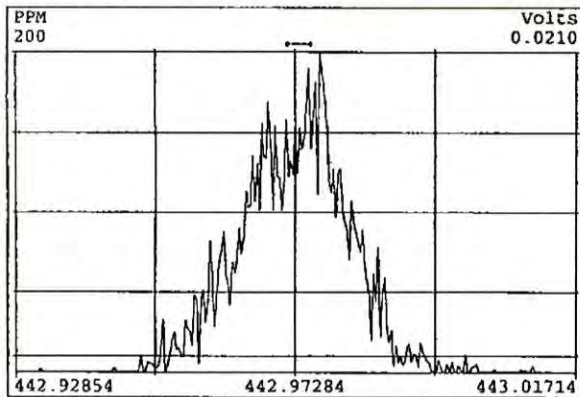
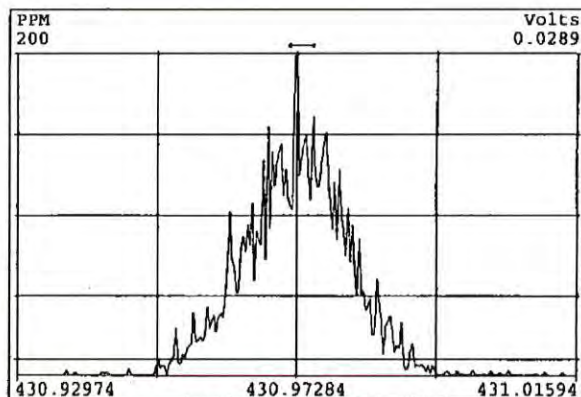
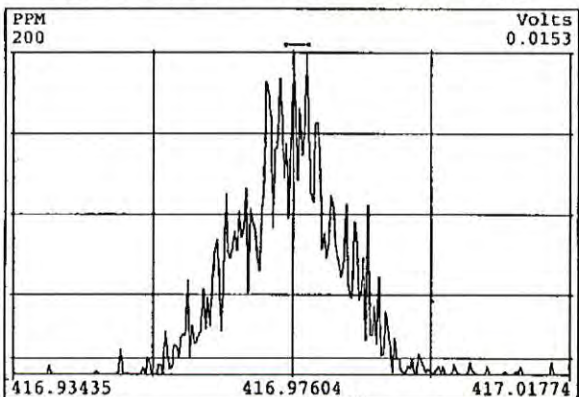
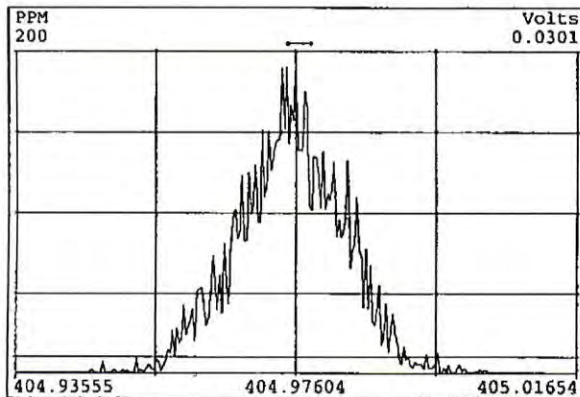




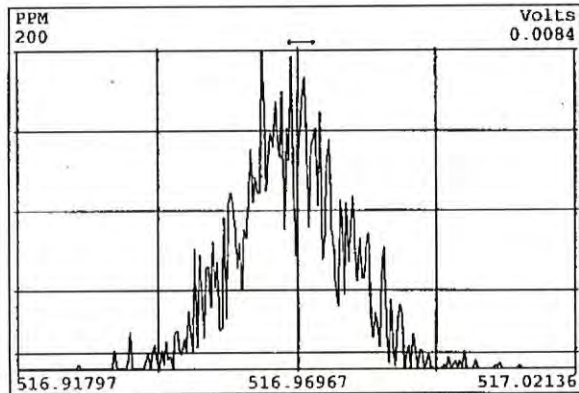
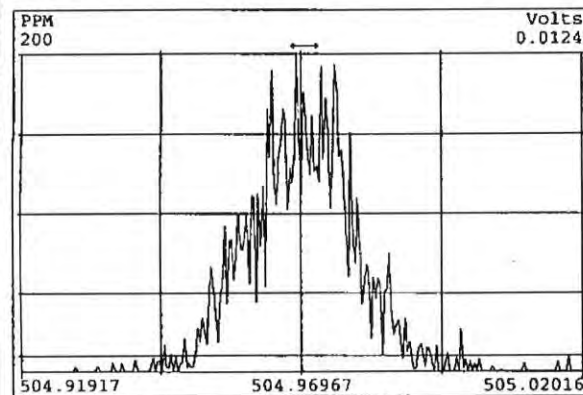
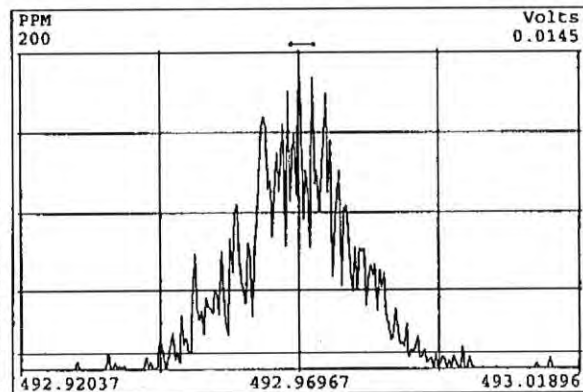
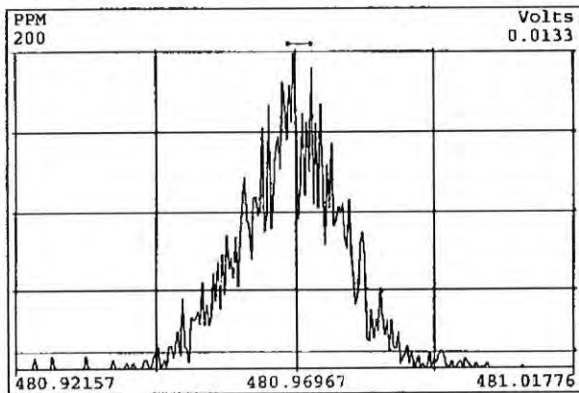
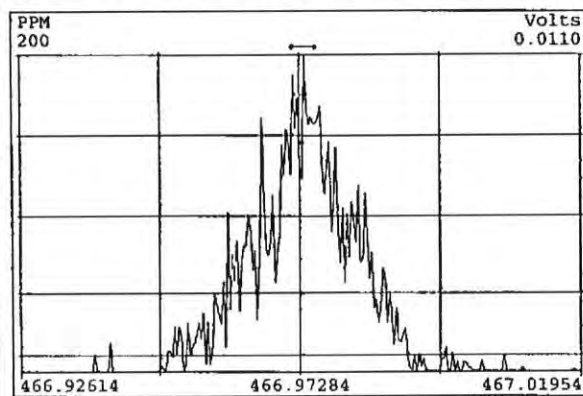
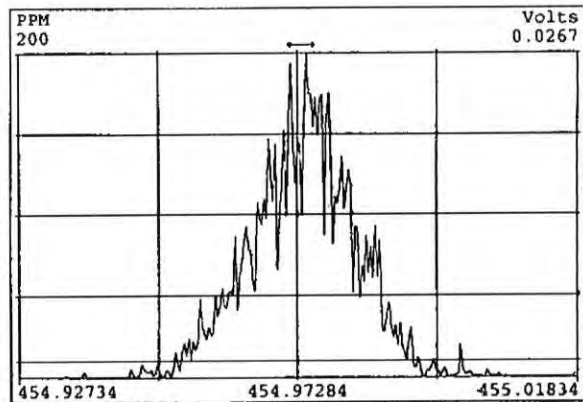
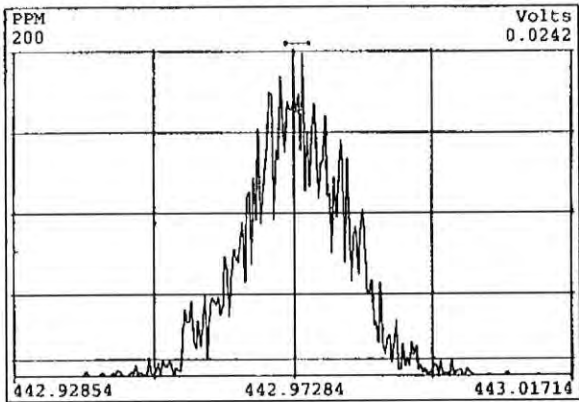
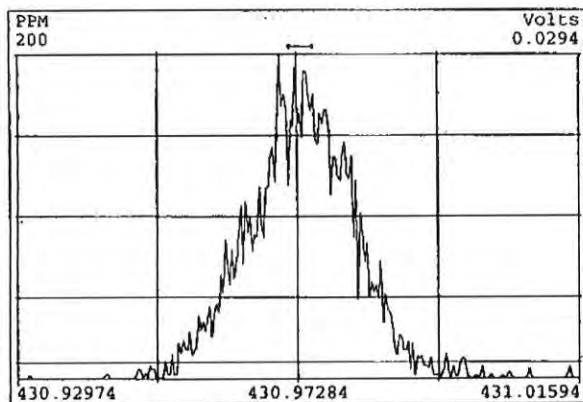
Peak Locate Examination:26-MAR-2009:05:40 File:MM1\_RES\_CHECK  
Experiment:DF\_CL4-8 Function:3 Reference:PFK2



Peak Locate Examination: 26-MAR-2009:05:41 File: MM1\_RES\_CHECK  
Experiment: DF\_CL4-8 Function: 4 Reference: PFK2



Peak Locate Examination:26-MAR-2009:05:42 File:MM1\_RES\_CHECK  
Experiment:DF\_CL4-8 Function:5 Reference:PFK2

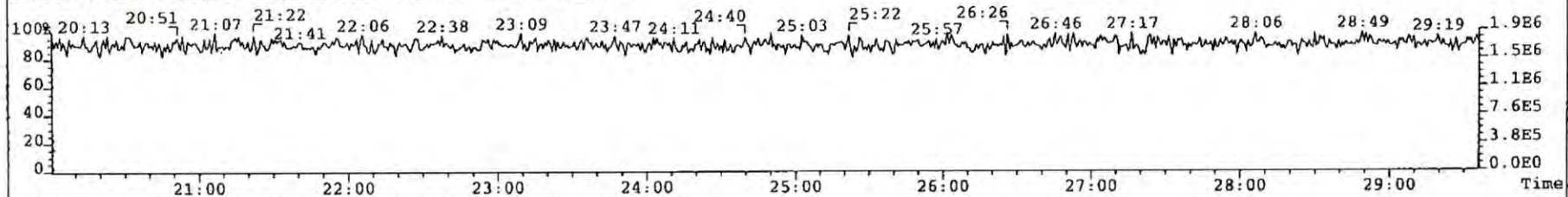




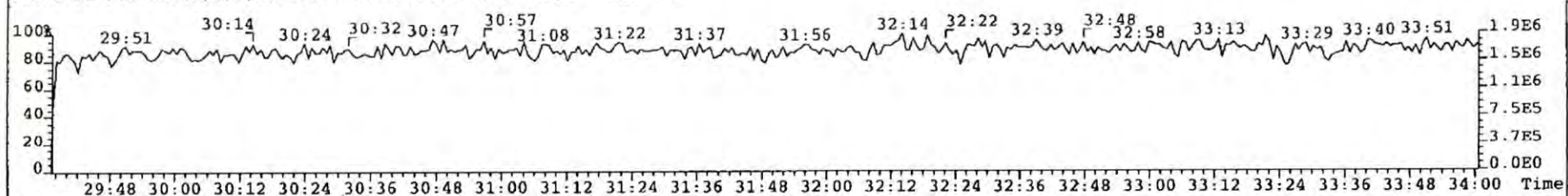
File: 090325P2 Acq: 25-MAR-2009 22:53:18 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5

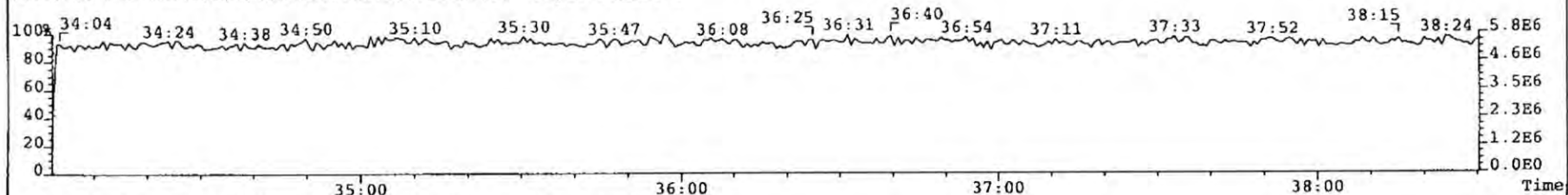
316.9824 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



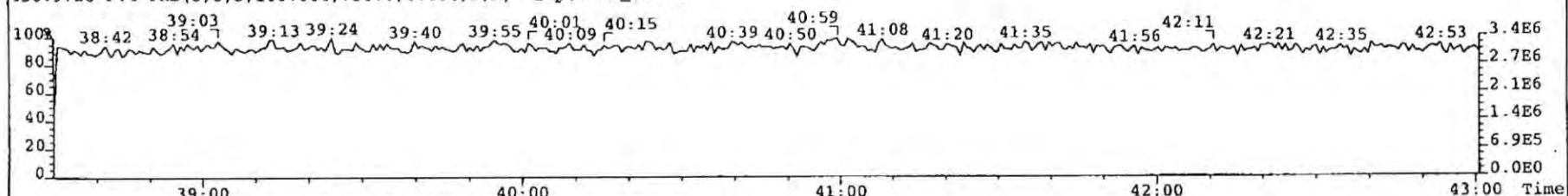
366.9792 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



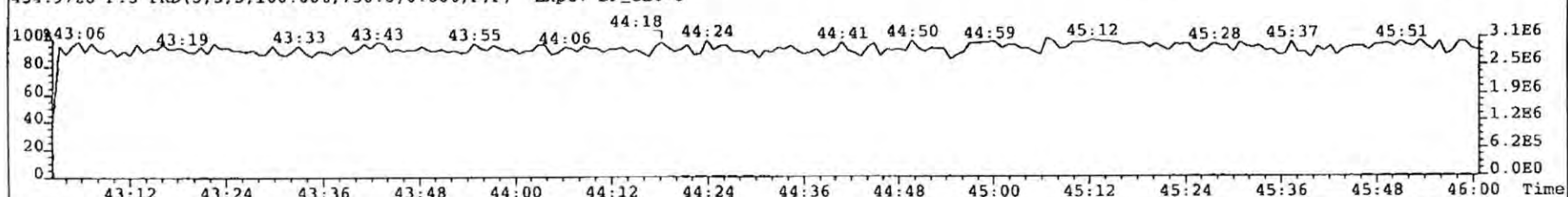
380.9760 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



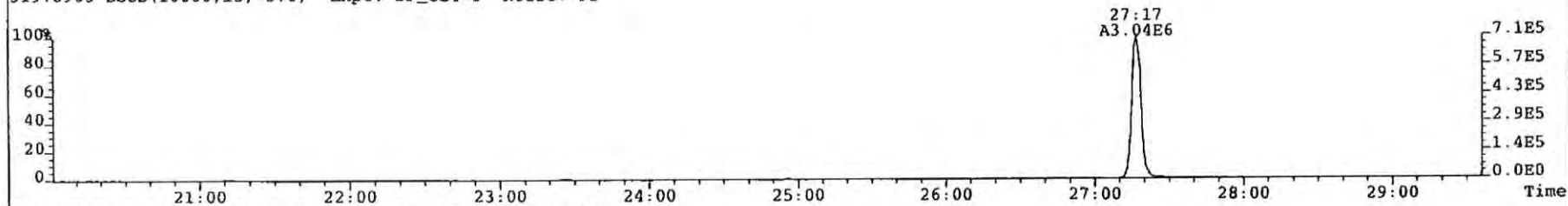
430.9728 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



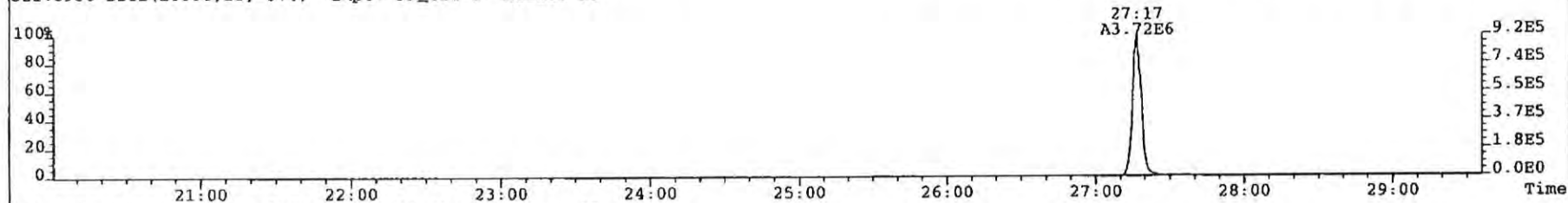
454.9728 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



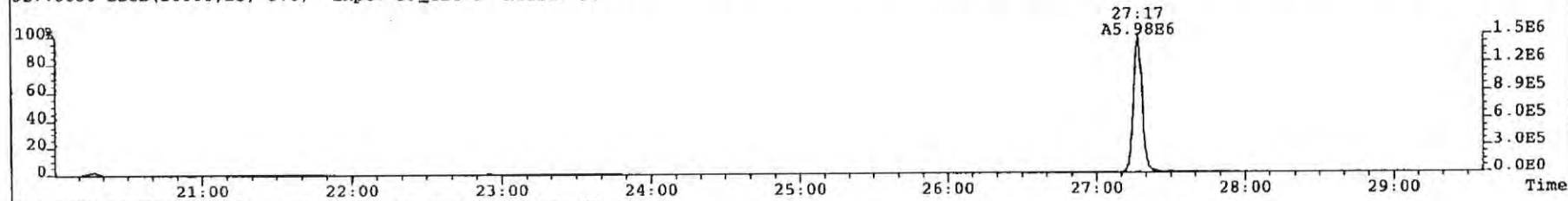
File: 090325P2 Acq: 25-MAR-2009 22:53:18 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5  
319.8965 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 92



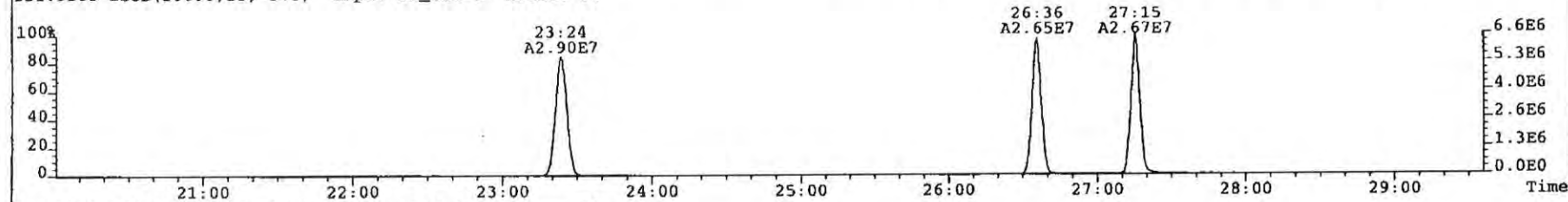
321.8936 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 93



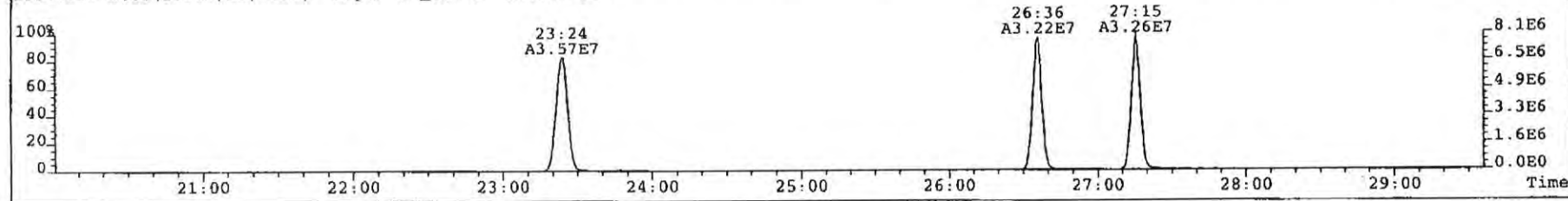
327.8850 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 92



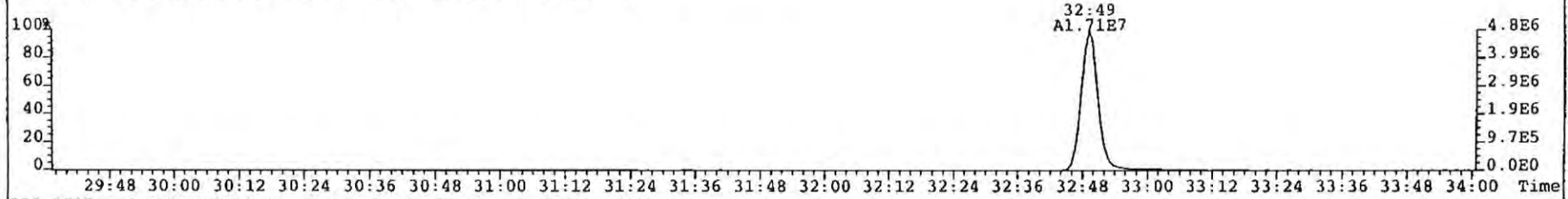
331.9368 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 90



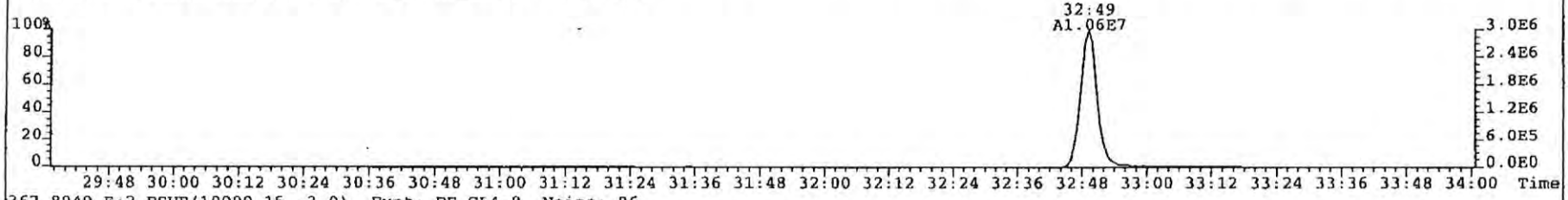
333.9339 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 93



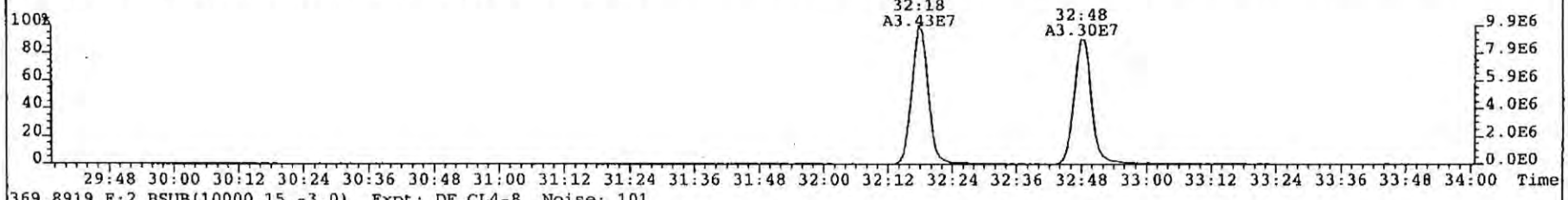
File: 090325P2 Acq: 25-MAR-2009 22:53:18 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5  
355.8546 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 411



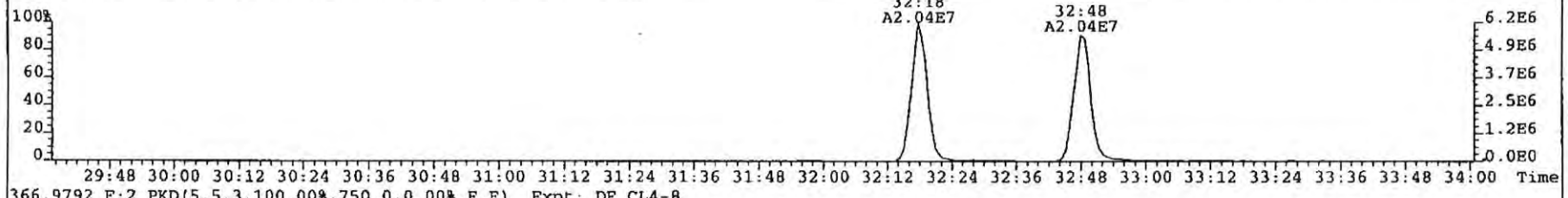
357.8517 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 108



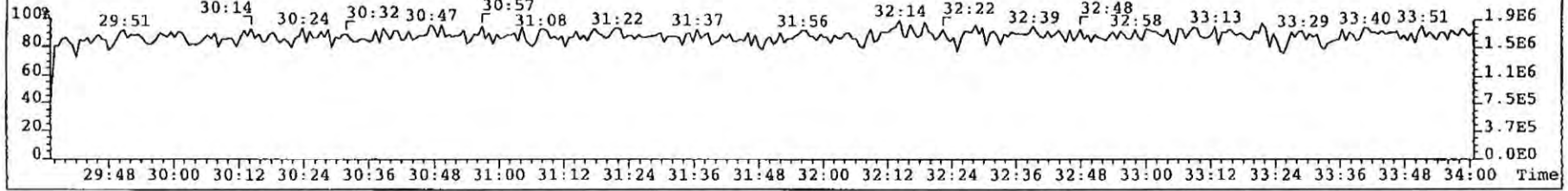
367.8949 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 96



369.8919 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 101

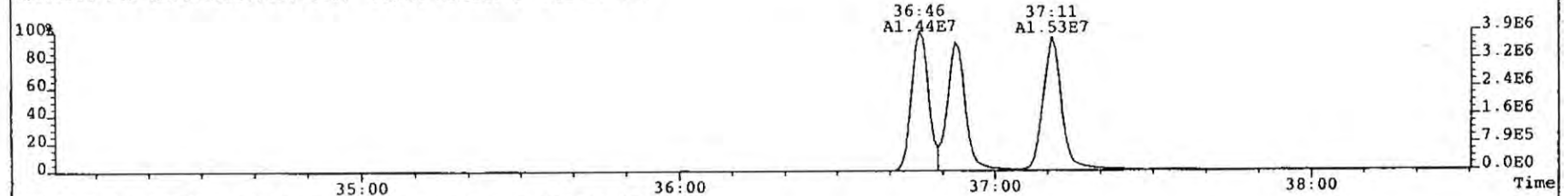


366.9792 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

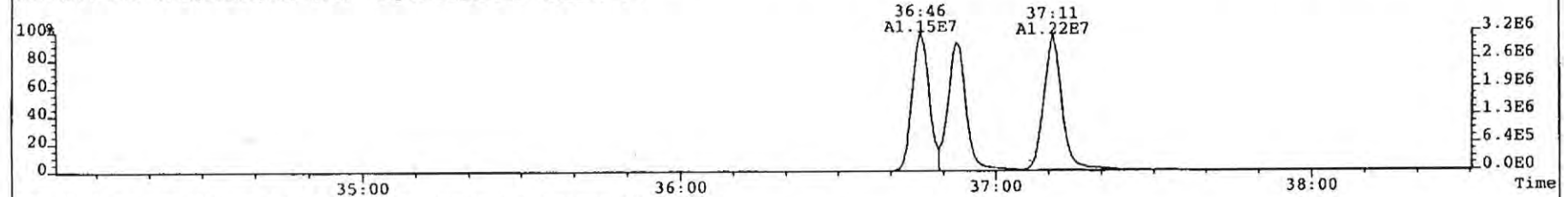




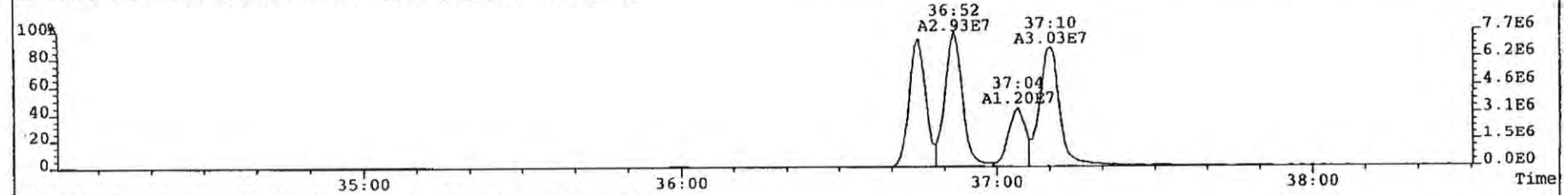
File: 090325P2 Acq: 25-MAR-2009 22:53:18 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5  
389.8156 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 766



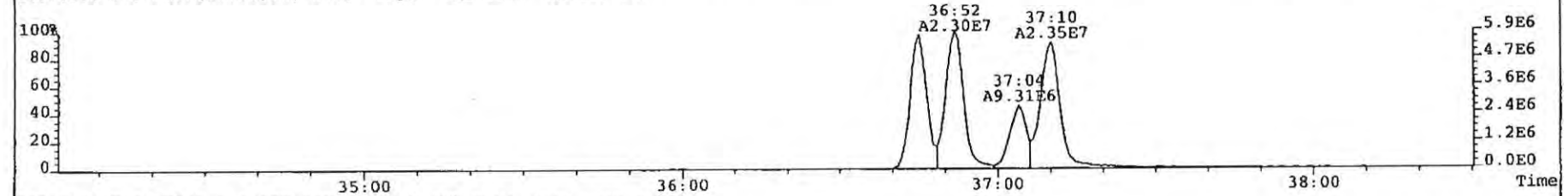
391.8127 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 477



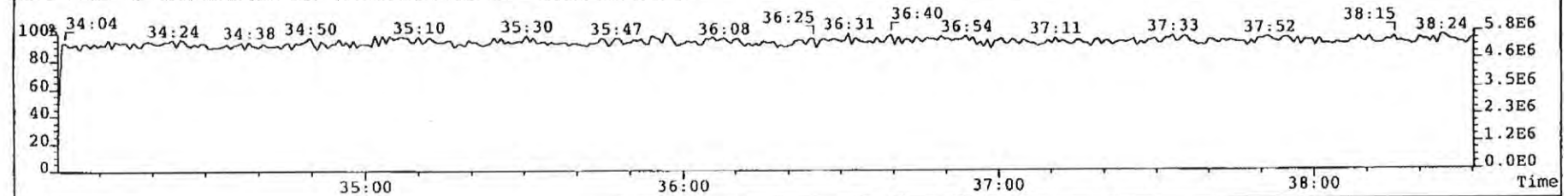
401.8559 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 99



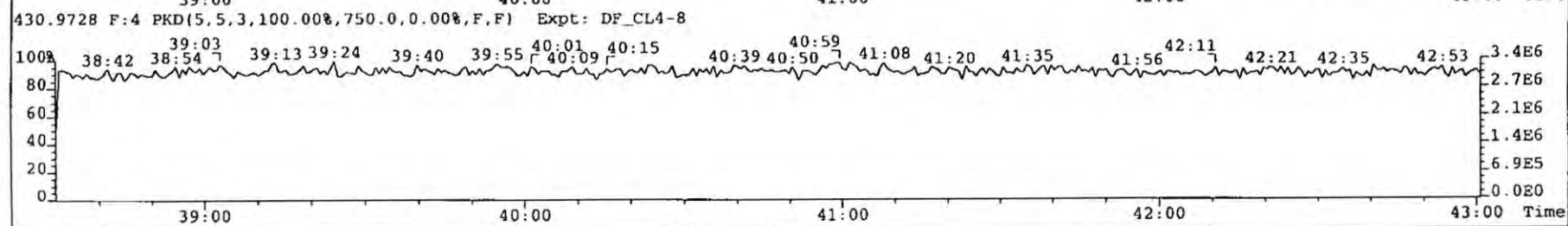
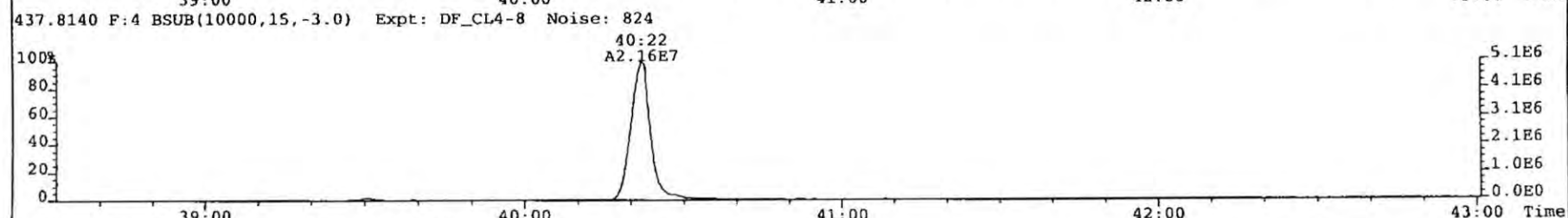
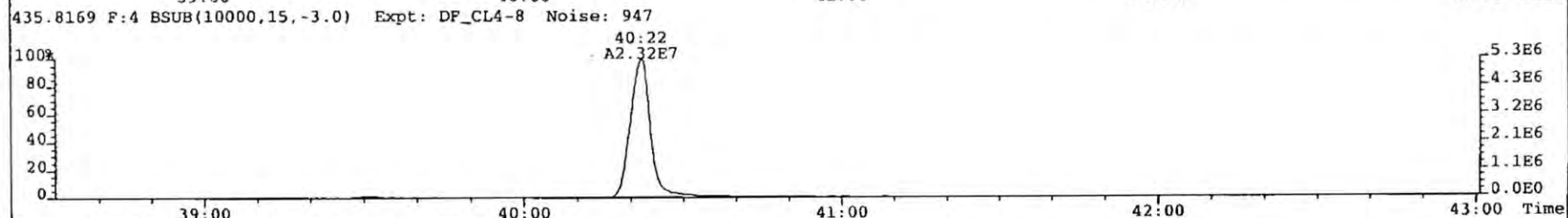
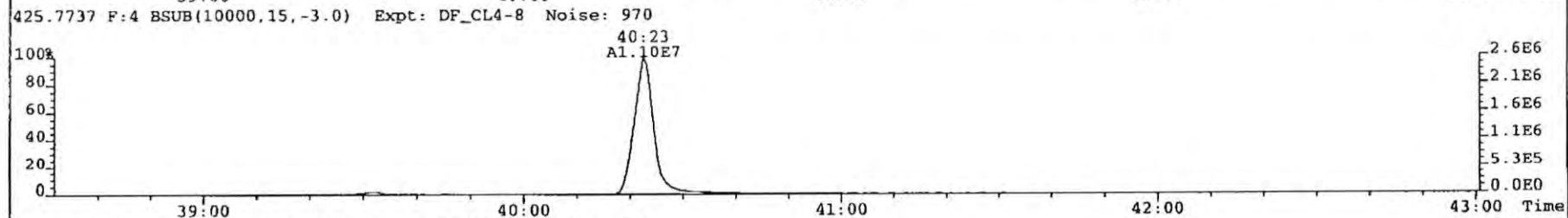
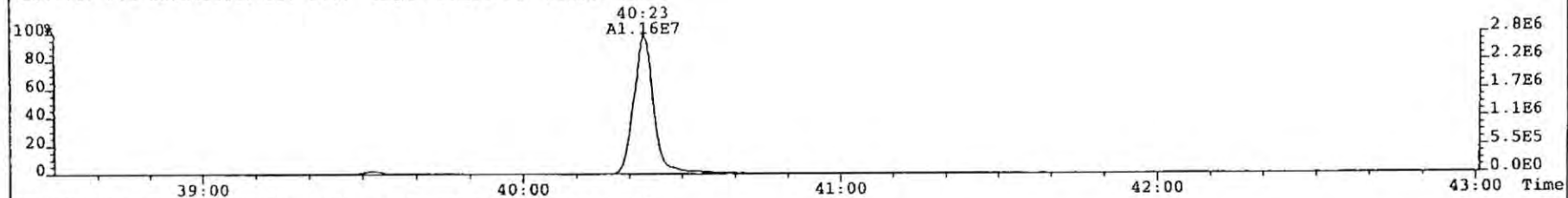
403.8530 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 94



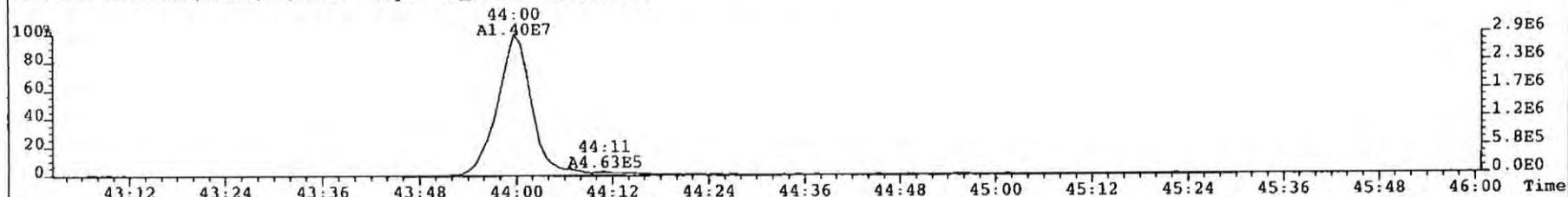
380.9760 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



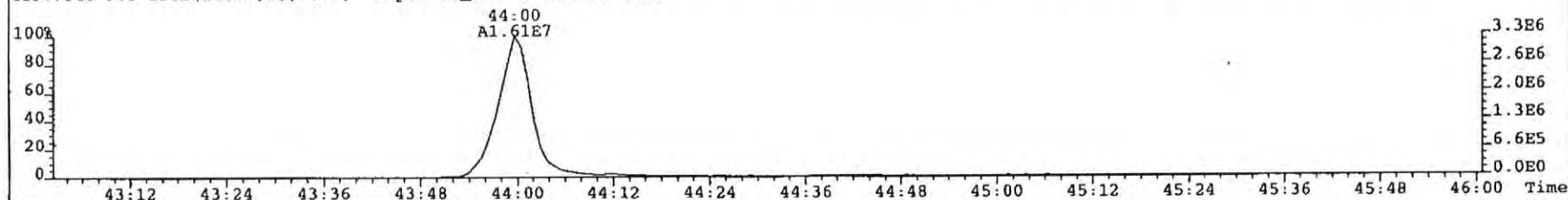
File: 090325P2 Acq: 25-MAR-2009 22:53:18 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5  
423.7767 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 954



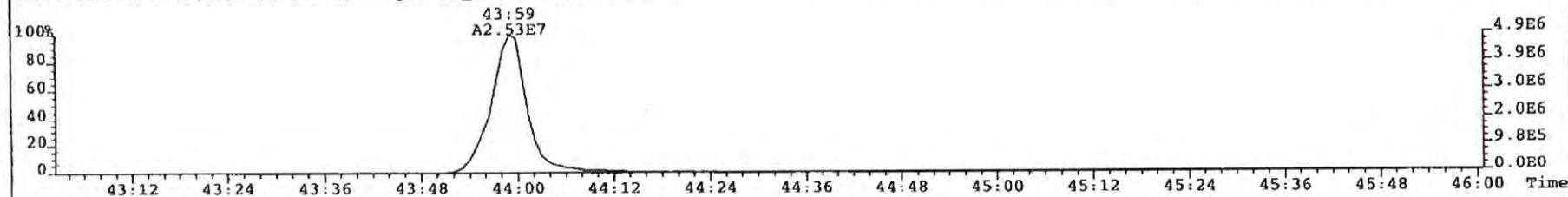
File: 090325P2 Acq: 25-MAR-2009 22:53:18 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5  
457.7377 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 886



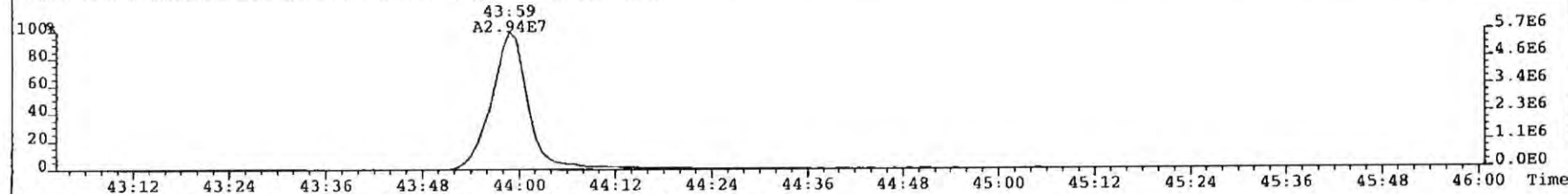
459.7348 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1026



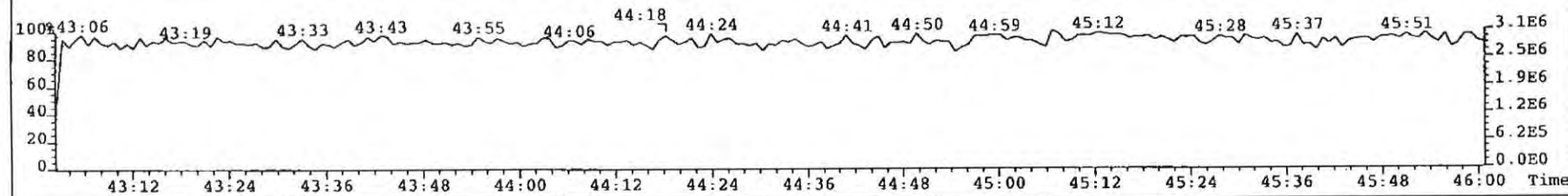
469.7780 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 786



471.7750 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1292

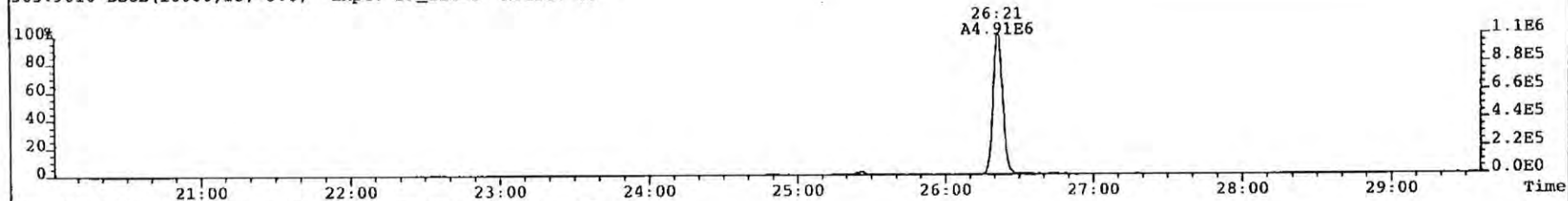


454.9728 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

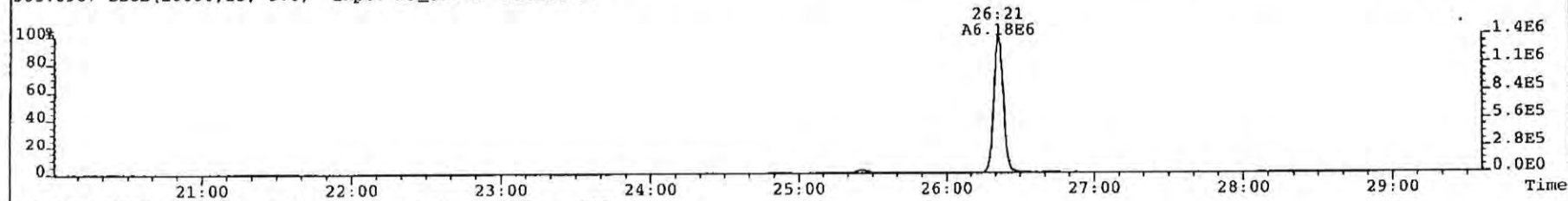




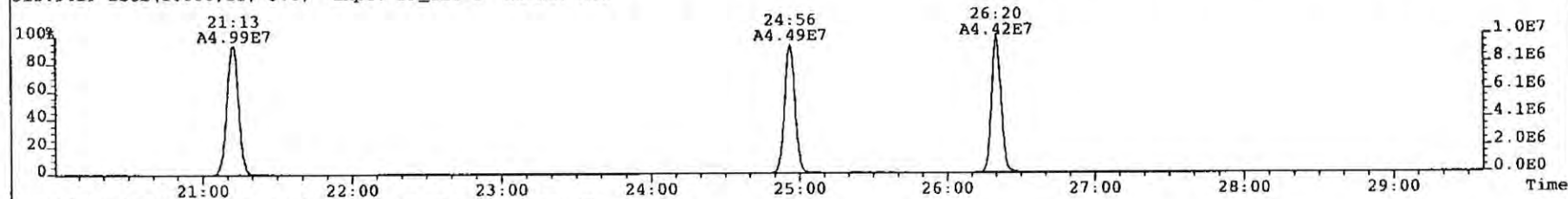
File: 090325P2 Acq: 25-MAR-2009 22:53:18 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5  
303.9016 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 83



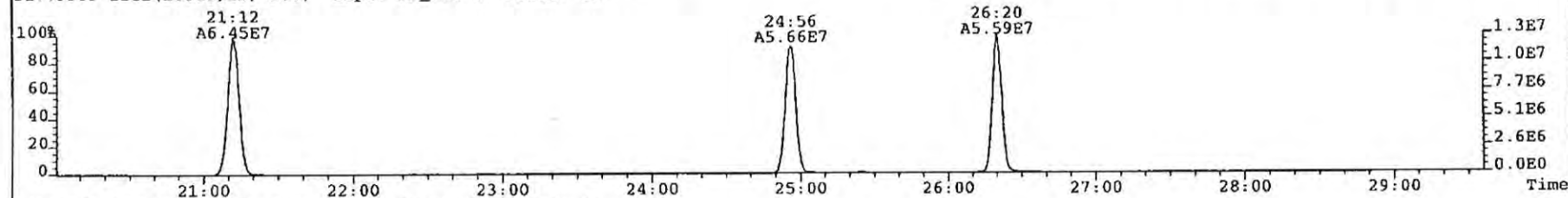
305.8987 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 87



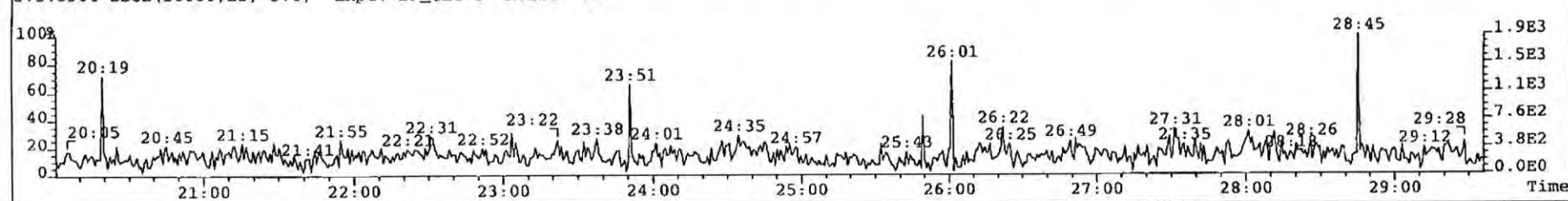
315.9419 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 112



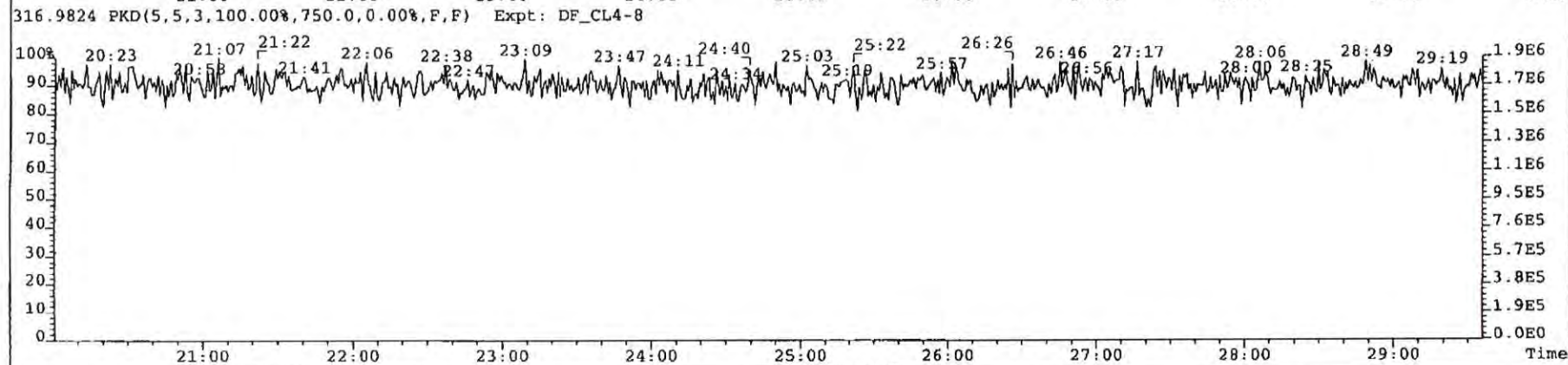
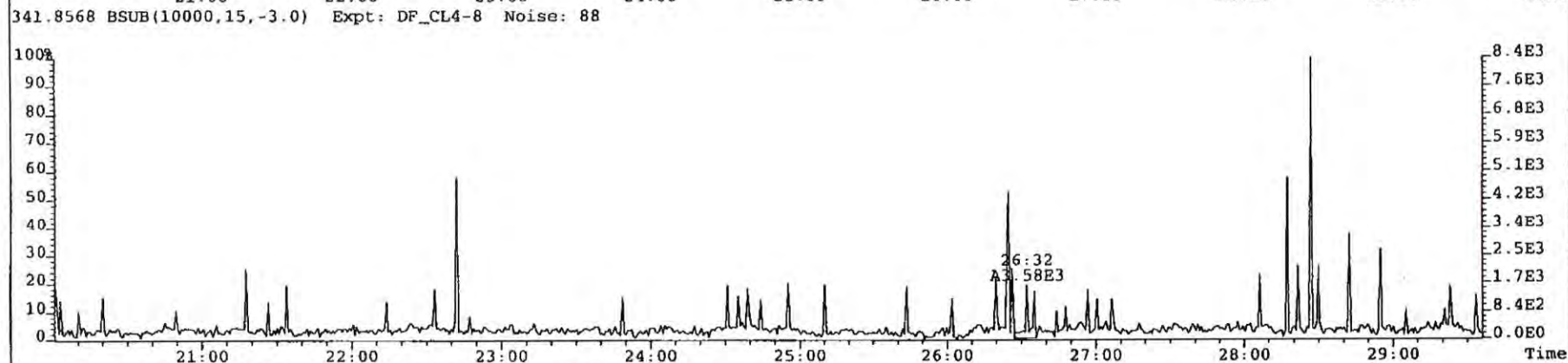
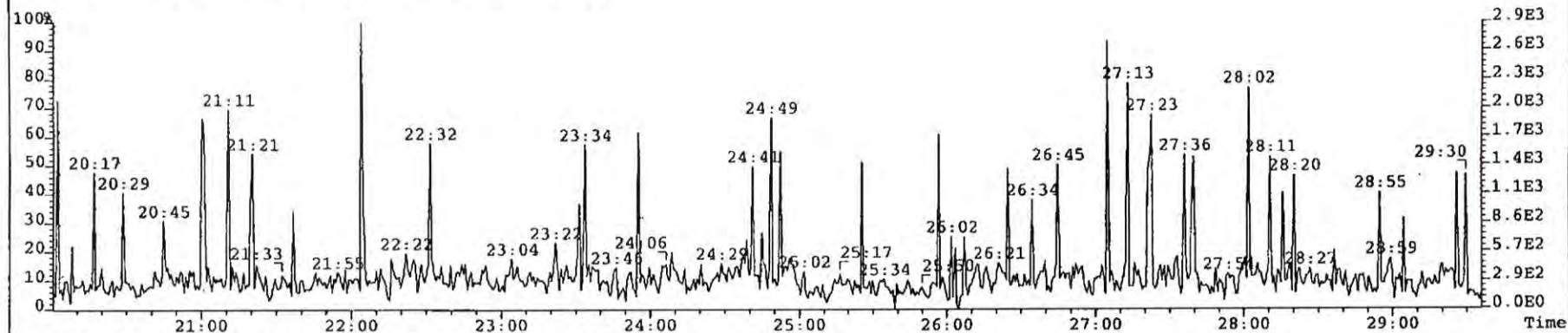
317.9389 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 86



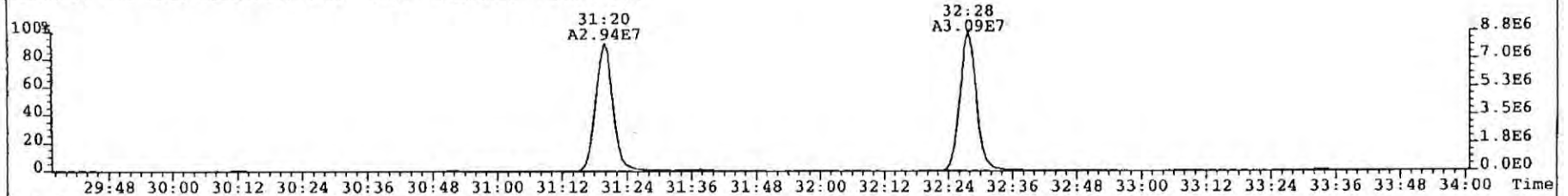
375.8364 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 81



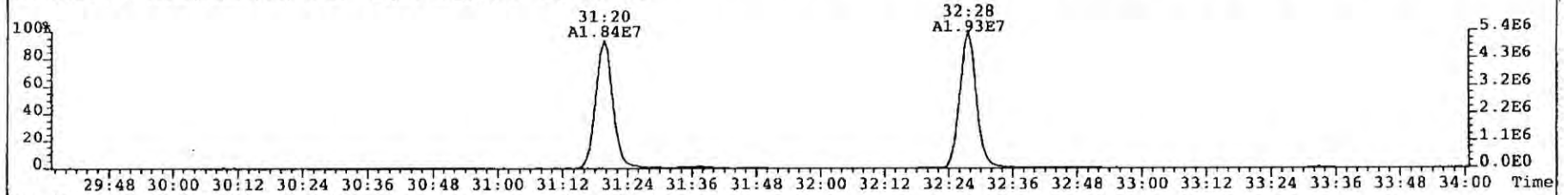
File: 090325P2 Acq: 25-MAR-2009 22:53:18 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5  
339.8597 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 91



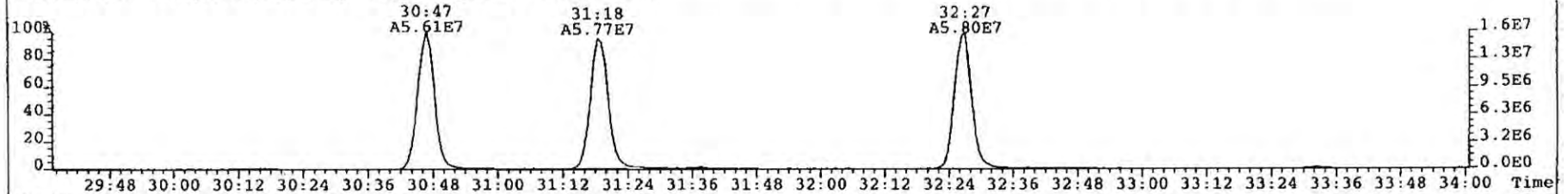
File: 090325P2 Acq: 25-MAR-2009 22:53:18 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5  
339.8597 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 786



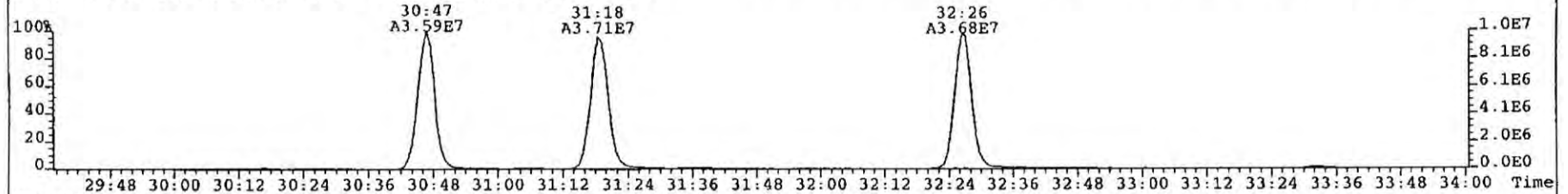
341.8568 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 934



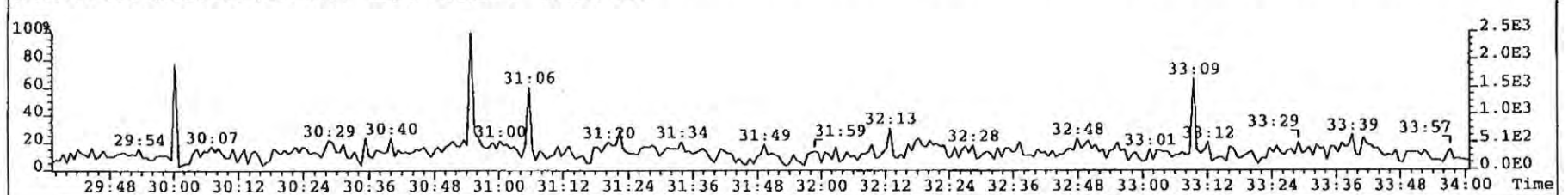
351.9000 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 4330



353.8970 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 2692

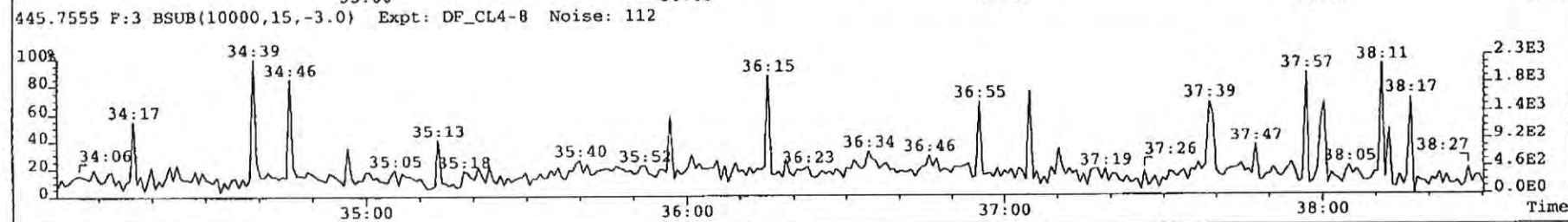
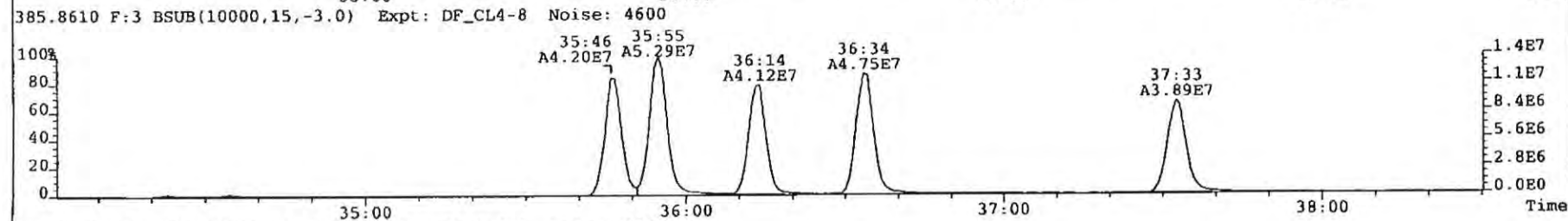
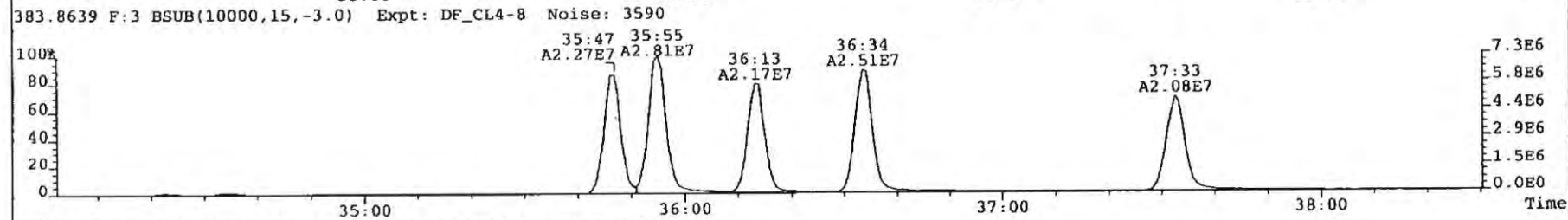
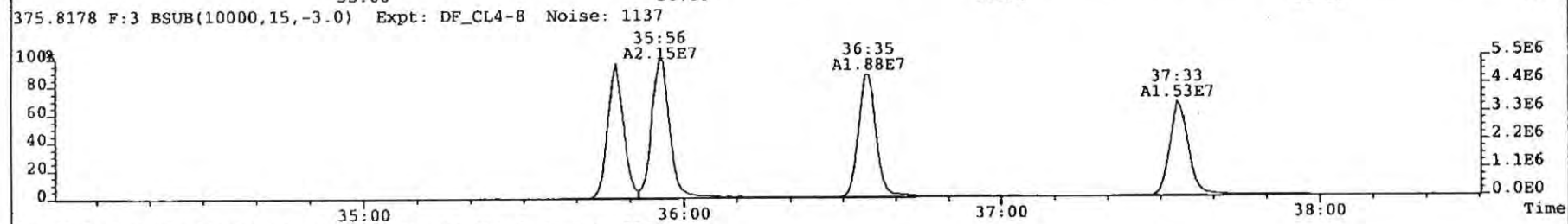
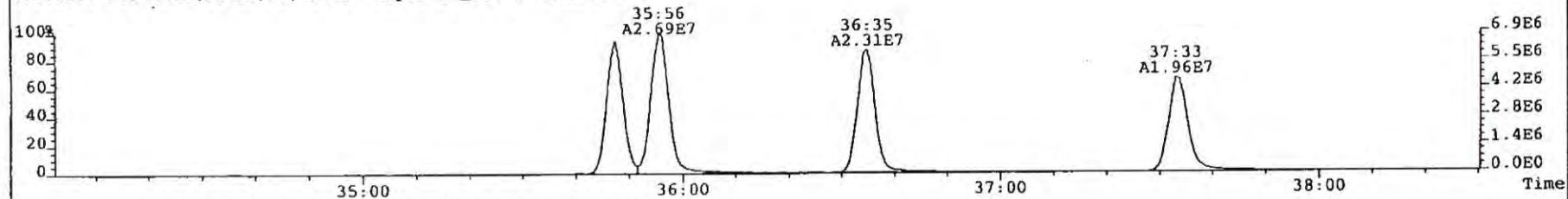


409.7974 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 103

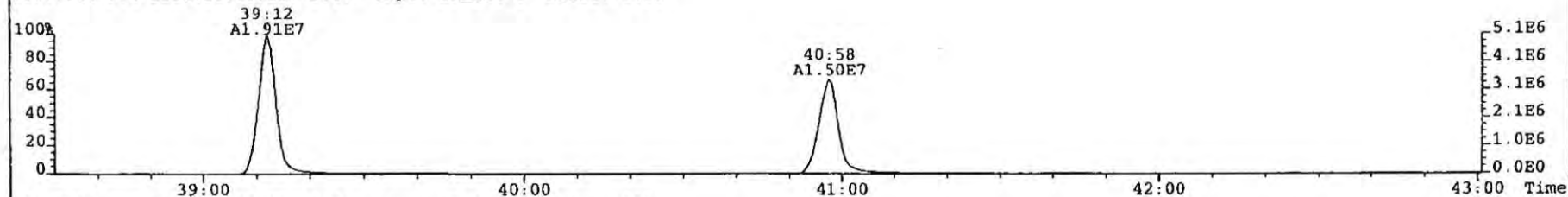




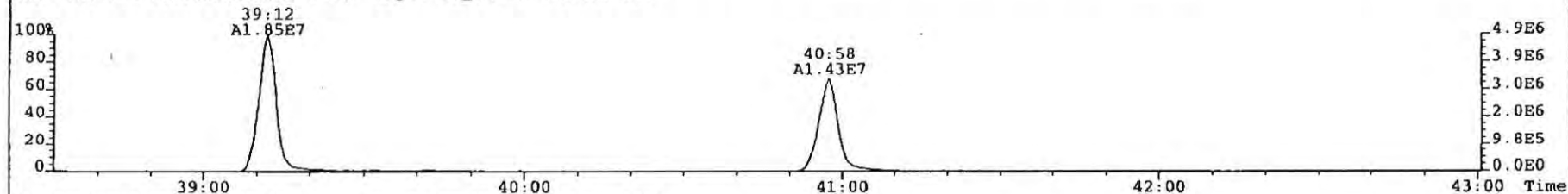
File: 090325P2 Acq: 25-MAR-2009 22:53:18 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5  
373.8207 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1722



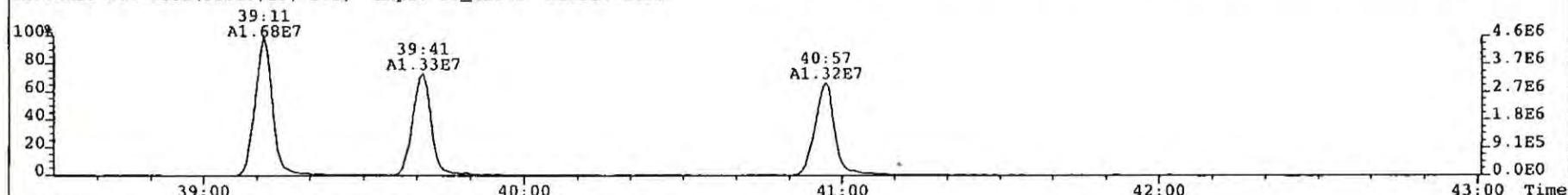
File: 090325P2 Acq: 25-MAR-2009 22:53:18 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5  
407.7818 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1088



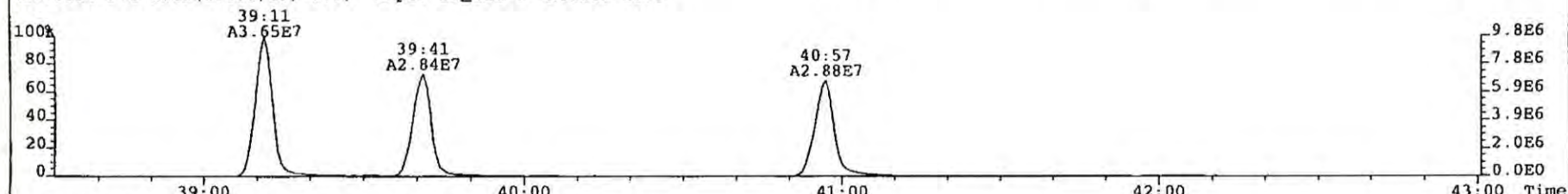
409.7788 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 993



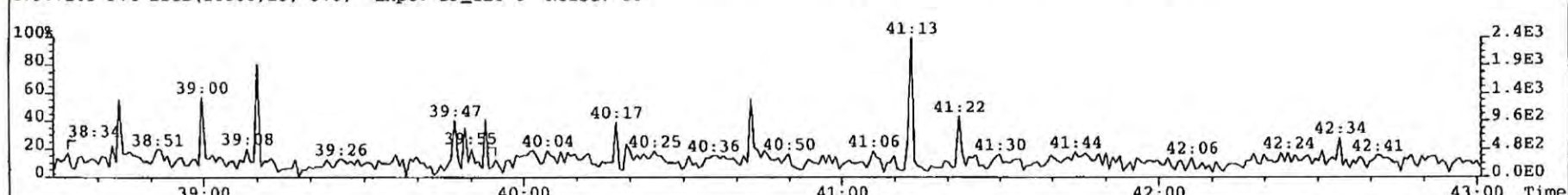
417.8253 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1408



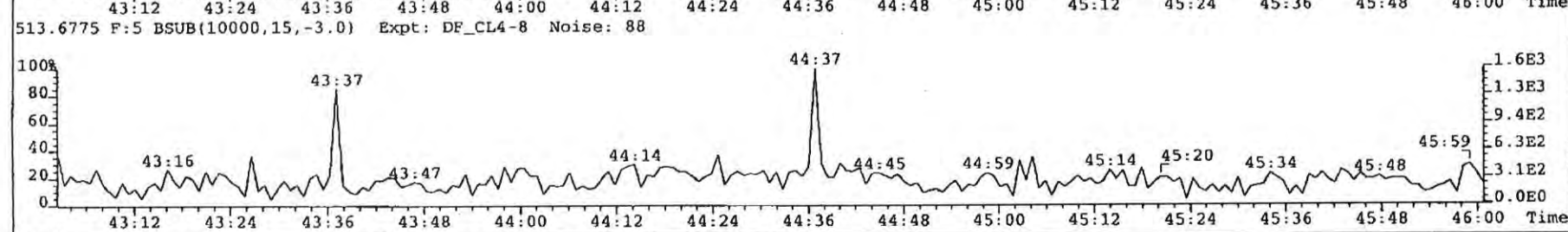
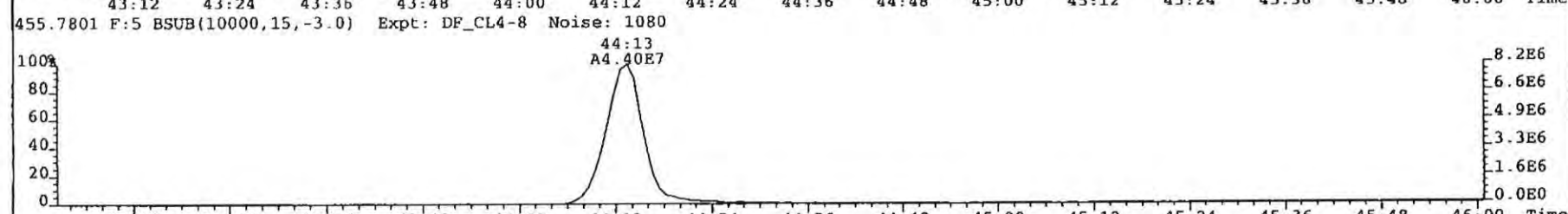
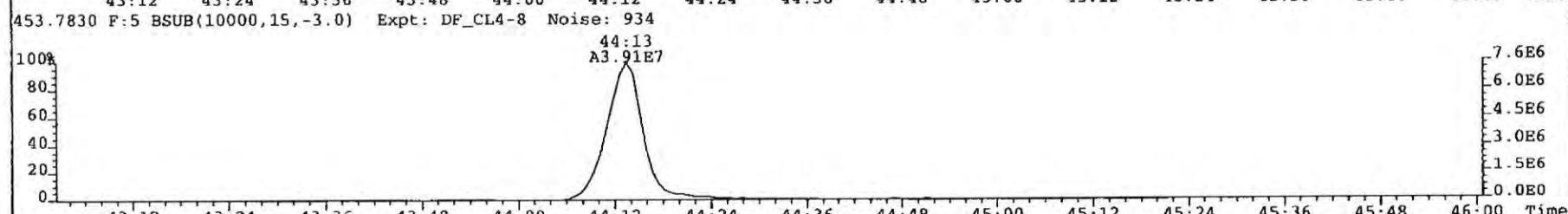
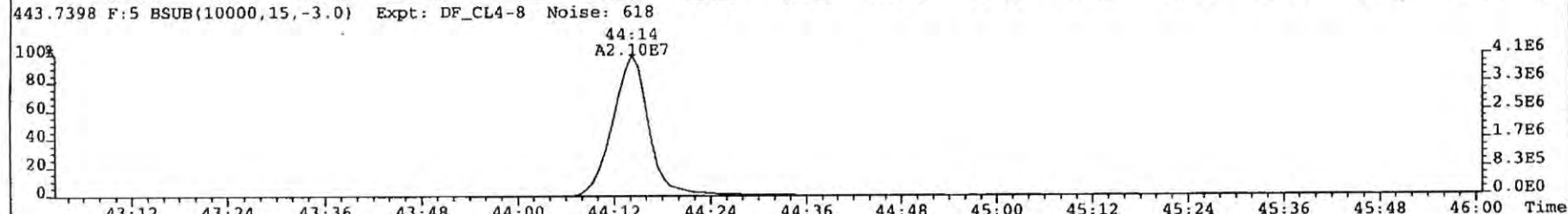
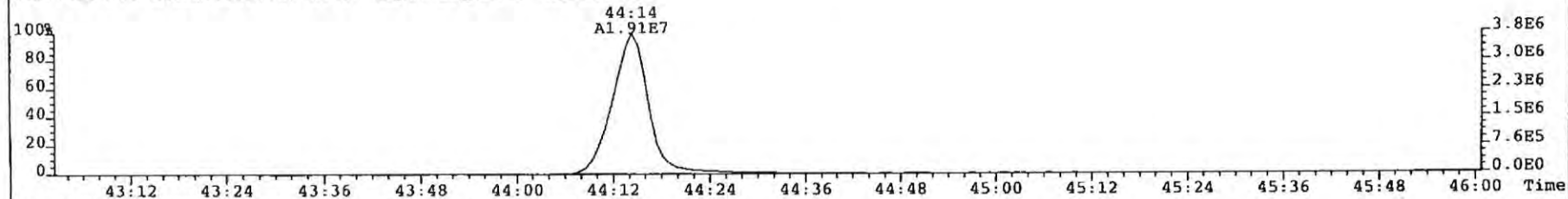
419.8220 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 2670



479.7165 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 86



File: 090325P2 Acq: 25-MAR-2009 22:53:18 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: CS3 SIL7-25-4 Vial# 8 File Text: AP DB5  
441.7428 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 294





OK - 1M 30 Dec 08

Initial Calibration RRF Summary (ICAL)

Analytical Perspectives

[Form: RRF7]

Cal filename: MM1\_DF\_07012007A\_25DEC08


Cal date: 25-DEC-08

Data filename: 081225P1

Samp# 1 0.25 Samp# 2 0.50 Samp# 3 2.0 Samp# 4 10 Samp# 5 40 Samp# 6 200 Samp# 7 500

pg/ml

Type	Name	Mean	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
Ax	2,3,7,8-TCDD	1.08	5.04 %	1.08	1.00	1.03	1.08	1.11	1.12	1.16
Ax	1,2,3,7,8-PeCDD	1.00	4.03 %	0.99	0.94	0.96	1.01	1.01	1.03	1.05
Ax	1,2,3,4,7,8-HxCDD	1.08	3.93 %	1.01	1.06	1.04	1.11	1.11	1.12	1.12
Ax	1,2,3,6,7,8-HxCDD	0.94	5.69 %	0.92	0.84	0.93	0.96	0.99	0.97	0.99
Ax	1,2,3,7,8,9-HxCDD	0.99	5.96 %	0.96	0.89	0.96	1.02	1.06	1.02	1.04
Ax	1,2,3,4,6,7,8-HpCDD	0.97	4.58 %	0.93	0.94	0.92	0.96	1.02	1.01	1.03
Ax	OCDD	1.06	4.85 %	1.02	1.00	1.03	1.04	1.10	1.09	1.14
Ax2	OCDD-a	0.06	7.60 %	*	*	*	0.06	0.06	0.06	0.07
Ax	2,3,7,8-TCDF	1.05	2.80 %	1.03	1.03	1.01	1.03	1.06	1.06	1.10
Ax	1,2,3,7,8-PeCDF	0.98	3.53 %	0.95	0.96	0.94	0.98	1.01	1.01	1.03
Ax	2,3,4,7,8-PeCDF	1.01	2.72 %	0.99	0.97	0.99	1.03	1.04	1.02	1.05
Ax	1,2,3,4,7,8-HxCDF	1.22	4.11 %	1.19	1.14	1.18	1.23	1.26	1.24	1.28
Ax	1,2,3,6,7,8-HxCDF	1.15	5.04 %	1.07	1.09	1.12	1.17	1.21	1.18	1.22
Ax	2,3,4,6,7,8-HxCDF	1.13	3.90 %	1.08	1.09	1.10	1.13	1.14	1.18	1.19
Ax	1,2,3,7,8,9-HxCDF	1.12	4.77 %	1.04	1.06	1.08	1.13	1.15	1.16	1.18
Ax	1,2,3,4,6,7,8-HpCDF	1.37	3.84 %	1.27	1.36	1.34	1.37	1.40	1.40	1.42
Ax	1,2,3,4,7,8,9-HpCDF	1.32	6.19 %	1.22	1.22	1.28	1.37	1.36	1.39	1.41
Ax	OCDF	0.94	3.04 %	0.96	0.91	0.89	0.94	0.96	0.95	0.97
Ax2	OCDF-a	0.05	7.57 %	*	*	*	0.05	0.05	0.05	0.06
ES	13C-2,3,7,8-TCDD	0.99	3.51 %	0.98	0.96	0.98	0.98	0.98	1.05	1.04
ES	13C-1,2,3,7,8-PeCDD	0.83	10.15 %	0.78	0.77	0.80	0.77	0.81	0.93	0.98
ES	13C-1,2,3,4,7,8-HxCDD	1.08	9.62 %	1.01	1.02	1.06	1.01	1.01	1.20	1.26
ES	13C-1,2,3,6,7,8-HxCDD	1.23	10.29 %	1.15	1.15	1.13	1.15	1.18	1.38	1.43
ES	13C-1,2,3,7,8,9-HxCDD	1.21	9.75 %	1.14	1.14	1.16	1.13	1.13	1.36	1.40
ES	13C-1,2,3,4,6,7,8-HpCDD	0.98	10.32 %	0.93	0.90	0.94	0.93	0.92	1.12	1.14
ES	13C-OCDD	0.66	16.97 %	0.59	0.55	0.62	0.60	0.61	0.80	0.84
ES	13C-2,3,7,8-TCDF	0.96	2.90 %	0.94	0.93	0.94	0.95	0.95	0.99	1.00
ES	13C-1,2,3,7,8-PeCDF	0.85	9.93 %	0.79	0.77	0.83	0.81	0.83	0.97	0.98
ES	13C-2,3,4,7,8-PeCDF	0.88	10.13 %	0.81	0.81	0.85	0.83	0.86	1.01	1.02
ES	13C-1,2,3,4,7,8-HxCDF	1.47	8.67 %	1.40	1.40	1.42	1.39	1.38	1.65	1.67
ES	13C-1,2,3,6,7,8-HxCDF	1.78	10.82 %	1.68	1.65	1.65	1.65	1.68	2.04	2.07
ES	13C-2,3,4,6,7,8-HxCDF	1.61	7.86 %	1.52	1.49	1.56	1.55	1.57	1.76	1.81
ES	13C-1,2,3,7,8,9-HxCDF	1.40	10.16 %	1.31	1.25	1.37	1.33	1.35	1.58	1.62
ES	13C-1,2,3,4,6,7,8-HpCDF	1.16	11.44 %	1.08	1.04	1.11	1.09	1.09	1.34	1.36
ES	13C-1,2,3,4,7,8,9-HpCDF	0.92	13.25 %	0.84	0.82	0.87	0.84	0.88	1.06	1.13
ES	13C-OCDF	1.04	19.54 %	0.90	0.84	0.95	0.94	0.98	1.28	1.37
CS	37Cl-2,3,7,8-TCDD	0.99	4.92 %	*	0.98	0.93	0.97	0.99	1.07	*
CS	13C-1,2,3,4,7-PeCDD	0.77	2.89 %	0.75	0.76	0.78	0.74	0.78	0.79	0.80
CS	13C-1,2,3,4,6-PeCDF	0.79	2.99 %	0.77	0.77	0.80	0.77	0.81	0.83	0.80
CS	13C-1,2,3,4,6,9-HxCDF	1.41	2.94 %	1.40	1.42	1.43	1.35	1.38	1.48	1.43
CS	13C-1,2,3,4,6,8,9-HpCDF	0.91	3.79 %	0.91	0.89	0.95	0.85	0.91	0.95	0.91
NA	n/a	Div0	* %	*	*	*	*	*	*	*
JS/RT	13C-1,2,3,4-TCDD	-	- %	-	-	-	-	-	-	-
JS	13C-1,2,3,4-TCDF	-	- %	-	-	-	-	-	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	-	- %	-	-	-	-	-	-	-

Analyst:   
Date: 26 Dec 08

SS	37Cl-2,3,7,8-TCDD	1.00	2.73 %	*	1.02	0.96	1.00	1.01	1.02	*
SS	13C-1,2,3,4,7-PeCDD	0.93	7.28 %	0.96	0.99	0.97	0.95	0.95	0.85	0.81
SS	13C-1,2,3,4,6-PeCDF	0.94	7.33 %	0.98	1.00	0.97	0.95	0.97	0.86	0.82
SS	13C-1,2,3,4,6,9-HxCDF	0.80	8.36 %	0.83	0.86	0.86	0.82	0.82	0.73	0.69
SS	13C-1,2,3,4,6,8,9-HpCDF	0.79	9.76 %	0.85	0.85	0.86	0.77	0.83	0.71	0.67
SBS	2,4,6,8-TCDF	1.05	2.80 %	1.03	1.03	1.01	1.03	1.06	1.06	1.10
Ay	1,3,6,8-TCDD	1.08	5.04 %	1.08	1.00	1.03	1.08	1.11	1.12	1.16
Ay	1,2,3,9-TCDD	1.08	5.04 %	1.08	1.00	1.03	1.08	1.11	1.12	1.16
Ay	1,2,8,9-TCDD	1.08	5.04 %	1.08	1.00	1.03	1.08	1.11	1.12	1.16
Ay	1,2,4,7,9-PeCDD	1.00	4.03 %	0.99	0.94	0.96	1.01	1.01	1.03	1.05
Ay	1,2,3,8,9-PeCDD	1.00	4.03 %	0.99	0.94	0.96	1.01	1.01	1.03	1.05
Ay	1,2,4,6,7,9-HxCDD	1.00	4.85 %	0.96	0.93	0.98	1.03	1.05	1.03	1.05
Ay	1,2,3,4,6,7,9-HpCDD	0.97	4.58 %	0.93	0.94	0.92	0.96	1.02	1.01	1.03
Ay	1,3,6,8-TCDF	1.05	2.80 %	1.03	1.03	1.01	1.03	1.06	1.06	1.10
Ay	2,3,4,8-TCDF	1.05	2.80 %	1.03	1.03	1.01	1.03	1.06	1.06	1.10
Ay	1,2,8,9-TCDF	1.05	2.80 %	1.03	1.03	1.01	1.03	1.06	1.06	1.10
Ay	1,3,4,6,8-PeCDF	1.05	2.80 %	1.03	1.03	1.01	1.03	1.06	1.06	1.10
Ay	1,2,3,8,9-PeCDF	1.00	3.02 %	0.97	0.97	0.97	1.00	1.03	1.02	1.04
Ay	1,2,3,4,6,8-HxCDF	1.15	4.31 %	1.10	1.09	1.12	1.17	1.19	1.19	1.22
AS	13C-1,3,6,8-TCDD	1.09	2.09 %	1.09	1.10	1.04	1.10	1.08	1.08	1.11
AS	13C-1,3,6,8-TCDF	1.09	1.59 %	1.10	1.10	1.06	1.10	1.08	1.08	1.11

Initial Calibration RRF Summary (ICAL)

Analytical Perspectives

Run: 081225P1 Analyte: M23CMM1A Cal: MM1\_DF\_0701200\*

Data filename: 081225P1

Samp# 1 Samp# 2 Samp# 3 Samp# 4 Samp# 5 Samp# 6 Samp# 7  
 0.25 0.50 2.0 10 40 200 500

*ps/nd*

Name	Mean RRF	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
Total Tetra-Dioxins	1.08	5.04 %	1.08	1.00	1.03	1.08	1.11	1.12	1.16
Total Penta-Dioxins	1.00	4.03 %	0.99	0.94	0.96	1.01	1.01	1.03	1.05
Total Hexa-Dioxins	1.00	4.85 %	0.96	0.93	0.98	1.03	1.05	1.03	1.05
Total Hepta-Dioxins	0.97	4.58 %	0.93	0.94	0.92	0.96	1.02	1.01	1.03
Total Tetra-Furans	1.05	2.80 %	1.03	1.03	1.01	1.03	1.06	1.06	1.10
Total Penta-Furans	1.00	3.02 %	0.97	0.97	0.97	1.00	1.03	1.02	1.04
Total Hexa-Furans	1.15	4.31 %	1.10	1.09	1.12	1.17	1.19	1.19	1.22
Total Hepta-Furans	1.35	4.65 %	1.25	1.30	1.31	1.37	1.38	1.39	1.42
TCDD EMPC	1.08	5.04 %	1.08	1.00	1.03	1.08	1.11	1.12	1.16
PeCDD EMPC	1.00	4.03 %	0.99	0.94	0.96	1.01	1.01	1.03	1.05
HxCDD EMPC	1.00	4.85 %	0.96	0.93	0.98	1.03	1.05	1.03	1.05
HpCDD EMPC	0.97	4.58 %	0.93	0.94	0.92	0.96	1.02	1.01	1.03
TCDF EMPC	1.05	2.80 %	1.03	1.03	1.01	1.03	1.06	1.06	1.10
PeCDF EMPC	1.00	3.02 %	0.97	0.97	0.97	1.00	1.03	1.02	1.04
HxCDF EMPC	1.15	4.31 %	1.10	1.09	1.12	1.17	1.19	1.19	1.22
HpCDF EMPC	1.35	4.65 %	1.25	1.30	1.31	1.37	1.38	1.39	1.42



8290B ICALs

Ax	MM1_DF-010606-26JAN06	MM1_DF-010606-16MAR06	MM1_SIL4181_20OCT06	MM1_DF_091806B_06NO V06	MM1_DF_091806B_14MA R07	MM1_DF_091806B_16AP R07	MM1_DF_07012007A_06A ug07	MM1_DF_07012007A_28D EC07	MM1_DF_07012007A_28D EC07	RSD	Mean	sd	PD from Mean	
2,3,7,8-TCDD	1	1.06	1.12	1.13	1.03	1.18	1.1	1.13	1.14	1.08	5.0	1.12	0.06	-3%
1,2,3,7,8-PeCDD	0.88	0.93	1.1	0.94	0.9	0.93	0.97	0.99	1.03	1	5.8	0.99	0.06	1%
1,2,3,4,7,8-HxCDD	0.92	1	1.2	1.1	0.98	1.1	1.13	1.12	1.16	1.08	6.3	1.09	0.07	-1%
1,2,3,6,7,8-HxCDD	0.93	1.03	1.06	1.03	0.94	1.03	1.04	1	1.04	0.94	6.4	1.05	0.07	-11%
1,2,3,7,8,9-HxCDD	0.91	0.99	1.07	1	0.9	1.03	1	1.08	1.1	0.99	5.5	1.01	0.06	-2%
1,2,3,4,6,7,8-HpCDD	0.83	0.9	1.08	0.87	0.75	0.94	0.91	0.98	1	0.97	7.7	0.95	0.07	2%
OCDD	0.98	1.04	1.1	0.9	0.81	0.93	0.94	1.1	1.11	1.06	7.6	1.00	0.08	6%
2,3,7,8-TCDF	0.86	0.99	1.09	1.05	0.97	1.07	1.03	1.04	1.15	1.05	6.9	1.02	0.07	3%
1,2,3,7,8-PeCDF	0.79	0.89	1.18	0.9	0.83	0.97	0.96	0.96	1.05	0.98	9.3	0.98	0.09	0%
2,3,4,7,8-PeCDF	0.94	1.08	1.15	0.94	0.87	1	0.99	1	1.09	1.01	6.8	1.01	0.07	0%
1,2,3,4,7,8-HxCDF	1.02	1.17	1.30	1.03	0.96	1.11	1.13	1.22	1.28	1.22	8.0	1.15	0.09	7%
1,2,3,6,7,8-HxCDF	0.99	1.12	1.27	1.02	0.94	1.12	1.12	1.17	1.2	1.15	7.2	1.14	0.08	1%
2,3,4,6,7,8-HxCDF	0.95	1.1	1.24	0.99	0.9	1.07	1.06	1.14	1.18	1.13	8.2	1.09	0.09	4%
1,2,3,7,8,9-HxCDF	1.03	1.19	1.24	1.03	0.94	1.12	1.12	1.14	1.19	1.12	6.4	1.12	0.07	0%
1,2,3,4,6,7,8-HpCDF	1.17	1.32	1.46	1.15	0.99	1.18	1.2	1.39	1.42	1.37	9.2	1.32	0.12	4%
1,2,3,4,7,8,9-HpCDF	1.22	1.37	1.51	1.16	1	1.21	1.2	1.37	1.4	1.32	8.8	1.32	0.12	0%
OCDF	0.86	0.99	1.07	0.78	0.72	0.86	0.83	0.95	0.97	0.94	9.1	0.94	0.09	0%
<b>ES</b>														
2,3,7,8-TCDD	1.03	1.03	1.05	1.11	1.1	1.12	1.09	1.05	1.02	0.99	4.8	1.10	0.05	-10%
1,2,3,7,8-PeCDD	0.77	0.83	0.95	1.05	1.02	1	1.02	0.92	0.96	0.83	8.1	0.95	0.08	-13%
1,2,3,4,7,8-HxCDD	1.06	1.09	1.19	1.06	1.04	1.1	1.06	1.09	1.12	1.08	4.1	1.06	0.04	2%
1,2,3,6,7,8-HxCDD	1.22	1.2	1.3	1.16	1.19	1.16	1.2	1.13	1.23	1.23	5.8	1.15	0.07	7%
1,2,3,7,8,9-HxCDD	1.26	1.22	1.35	1.24	1.25	1.23	1.25	1.17	1.23	1.21	4.1	1.22	0.05	-1%
1,2,3,4,6,7,8-HpCDD	0.92	0.94	1.11	1.17	1.04	1.01	1.09	1.03	1.14	0.98	10.2	0.98	0.10	0%
OCDD	0.7	0.68	0.86	0.98	0.6	0.72	0.83	0.68	0.72	0.66	12.7	0.77	0.10	-14%
2,3,7,8-TCDF	0.94	0.96	1.02	1.04	0.97	1.04	1	0.99	0.94	0.96	3.5	1.00	0.04	-4%
1,2,3,7,8-PeCDF	0.73	0.8	0.96	1.05	1.01	0.91	0.9	0.91	0.97	0.85	10.0	0.86	0.09	-1%
2,3,4,7,8-PeCDF	0.67	0.73	0.96	1.05	1.04	0.94	1	0.89	0.97	0.88	10.6	0.89	0.10	-2%
1,2,3,4,7,8-HxCDF	1.24	1.4	1.58	1.65	1.39	1.73	1.64	1.57	1.66	1.47	9.1	1.52	0.14	-3%
1,2,3,6,7,8-HxCDF	1.43	1.55	1.79	1.89	1.65	1.86	1.88	1.71	1.99	1.78	10.0	1.68	0.17	6%
2,3,4,6,7,8-HxCDF	1.32	1.44	1.66	1.71	1.5	1.75	1.74	1.61	1.77	1.61	8.6	1.57	0.13	2%
1,2,3,7,8,9-HxCDF	1.16	1.29	1.5	1.52	1.26	1.58	1.53	1.45	1.57	1.4	10.4	1.35	0.14	4%
1,2,3,4,6,7,8-HpCDF	0.86	1.06	1.28	1.3	1.03	1.28	1.32	1.23	1.35	1.16	12.9	1.13	0.15	3%
1,2,3,4,7,8,9-HpCDF	0.7	0.83	1.04	1.12	0.85	1.04	1.11	1.01	1.09	0.92	15.0	0.92	0.14	1%
OCDF	0.85	0.95	1.2	1.39	1.05	1.08	1.26	1.06	1.16	1.04	14.6	1.08	0.16	-4%

ANALYTICAL PERSPECTIVES	CS0	CS2	CS3	CS4	CS5	CS6	
<b>Unlabeled Analytes</b>							
2,3,7,8-TCDD	0.25	0.5	2	10	40	200	500
2,3,7,8-TCDF	0.25	0.5	2	10	40	200	500
1,2,3,7,8-PeCDD	1.25	2.5	10	50	200	1000	2500
1,2,3,7,8-PeCDF	1.25	2.5	10	50	200	1000	2500
2,3,4,7,8-PeCDF	1.25	2.5	10	50	200	1000	2500
1,2,3,4,7,8-HxCDD	1.25	2.5	10	50	200	1000	2500
1,2,3,6,7,8-HxCDD	1.25	2.5	10	50	200	1000	2500
1,2,3,7,8,9-HxCDD	1.25	2.5	10	50	200	1000	2500
1,2,3,4,7,8-HxCDF	1.25	2.5	10	50	200	1000	2500
1,2,3,6,7,8-HxCDF	1.25	2.5	10	50	200	1000	2500
1,2,3,7,8,9-HxCDF	1.25	2.5	10	50	200	1000	2500
2,3,4,6,7,8-HxCDF	1.25	2.5	10	50	200	1000	2500
1,2,3,4,6,7,8-HpCDD	1.25	2.5	10	50	200	1000	2500
1,2,3,4,6,7,8-HpCDF	1.25	2.5	10	50	200	1000	2500
1,2,3,4,7,8,9-HpCDF	1.25	2.5	10	50	200	1000	2500
OCDD	2.5	5	20	100	400	2000	5000
OCDF	2.5	5	20	100	400	2000	5000
<b>Extraction Standards</b>							
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -OCDD	200	200	200	200	200	200	200
<sup>13</sup> C <sub>12</sub> -OCDF	200	200	200	200	200	200	200
<b>Cleanup Standards</b>							
<sup>37</sup> Cl <sub>4</sub> -2,3,7,8-TCDD	-	0.5	2	10	40	200	-
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7-PeCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6-PeCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,9-HxCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,8,9-HpCDF	100	100	100	100	100	100	100
<b>Alternate Standards</b>							
<sup>13</sup> C <sub>12</sub> -1,3,6,8-TCDD				100			
<sup>13</sup> C <sub>12</sub> -1,3,6,8-TCDF				100			
<b>Injection Standards</b>							
<sup>13</sup> C <sub>12</sub> -1,2,3,4-TCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4-TCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7-HxCDD	50	50	50	50	50	50	50

Analytical Perspectives - Injection Log

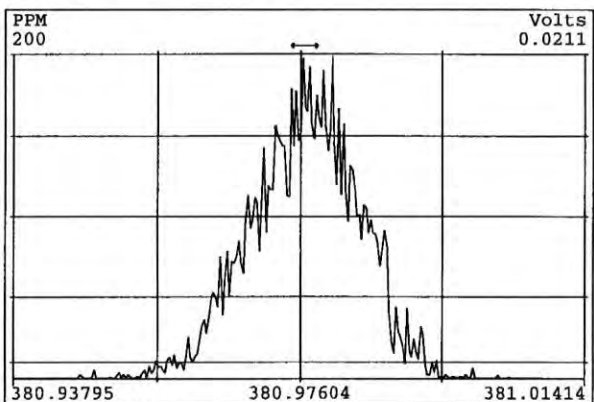
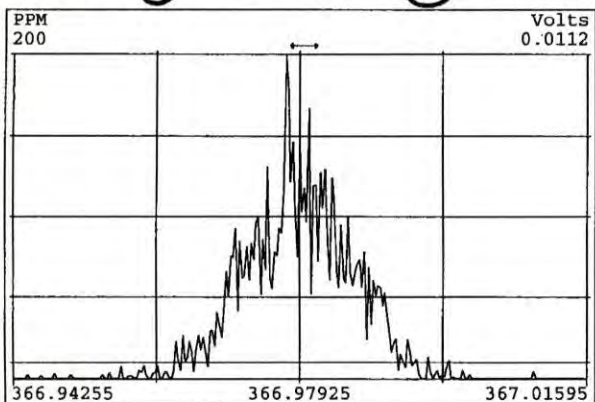
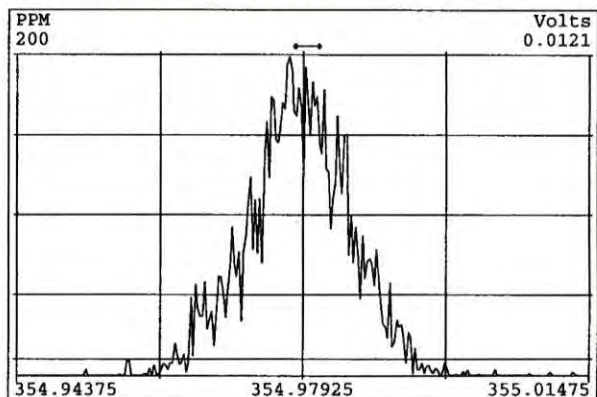
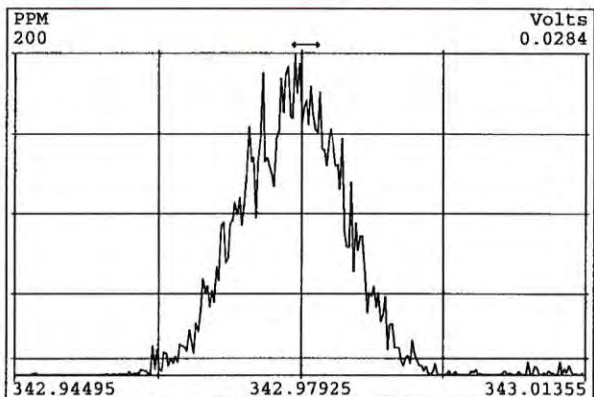
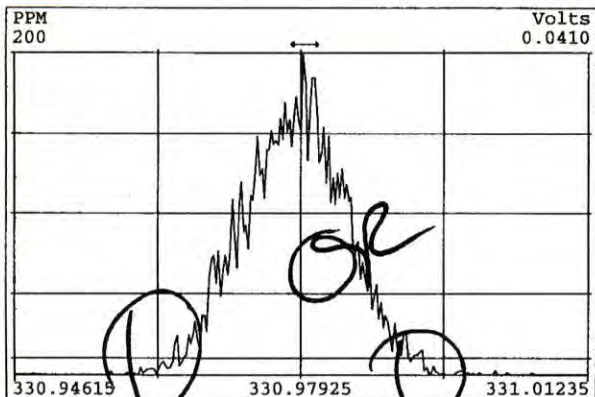
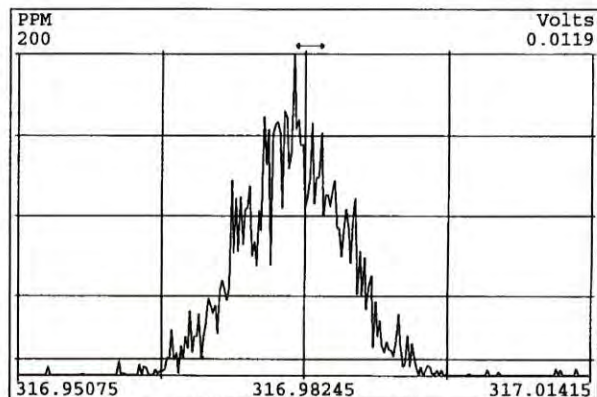
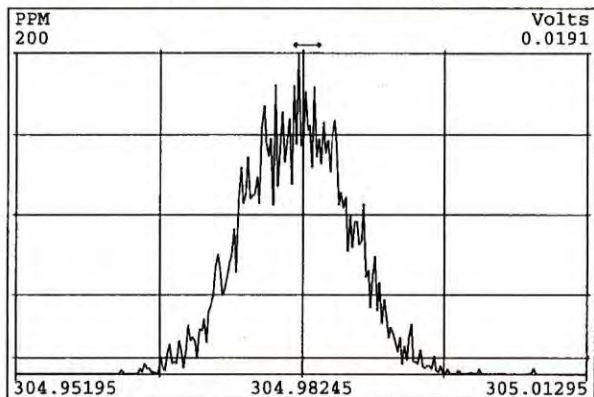
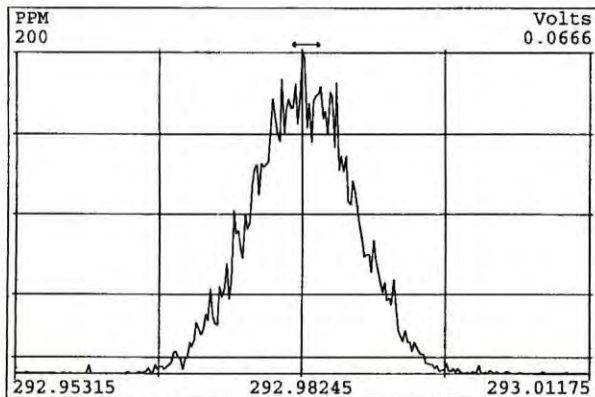
Analyst: MC  
MS Method: DF\_CL4-8

GC Column: db-5  
GC Method: DB5MS\_60M

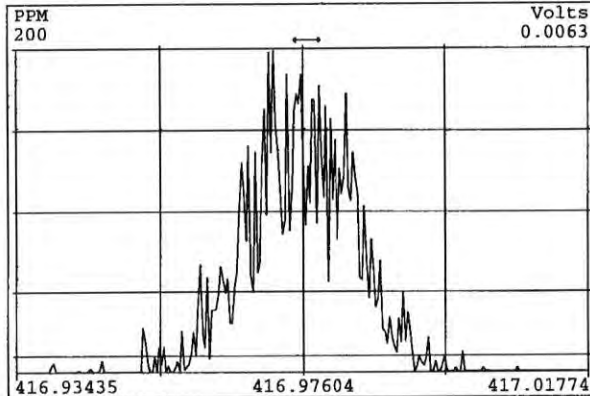
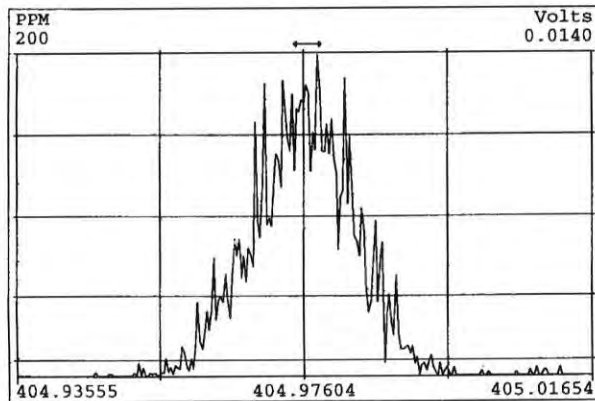
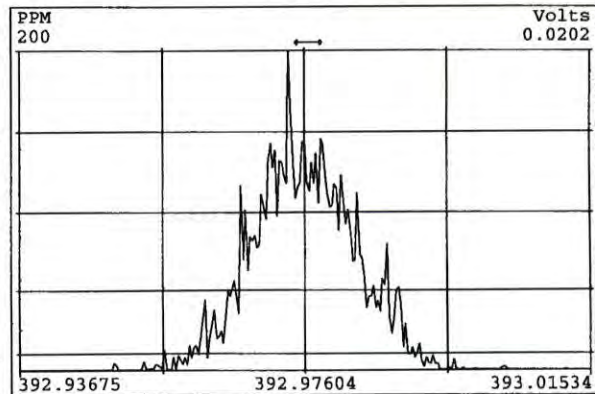
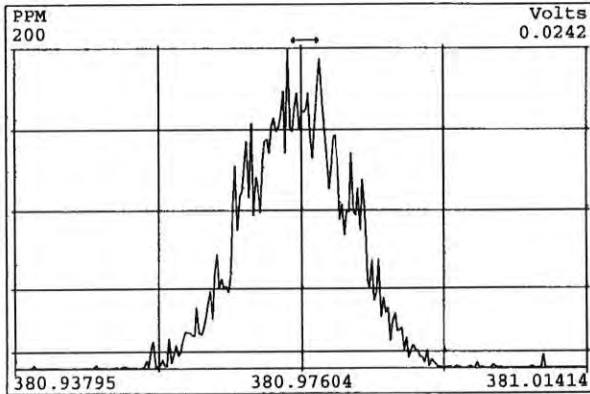
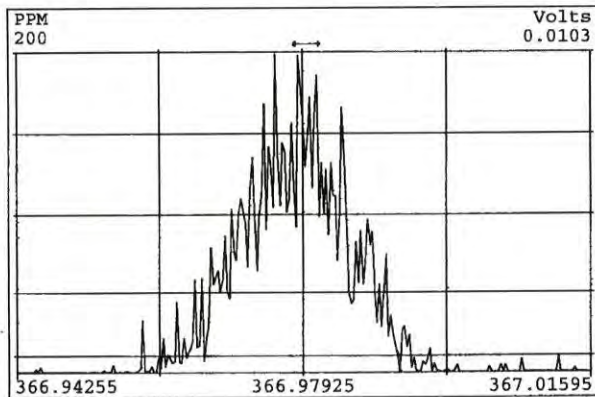
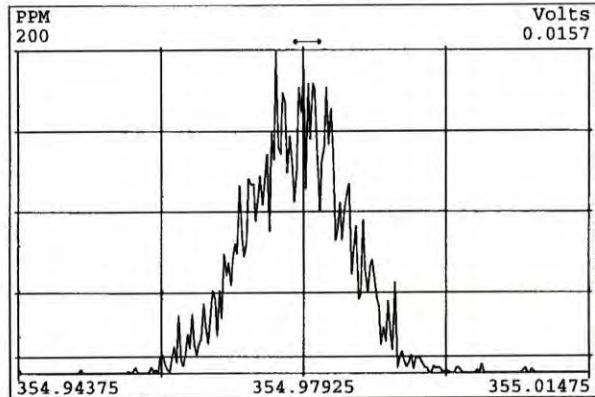
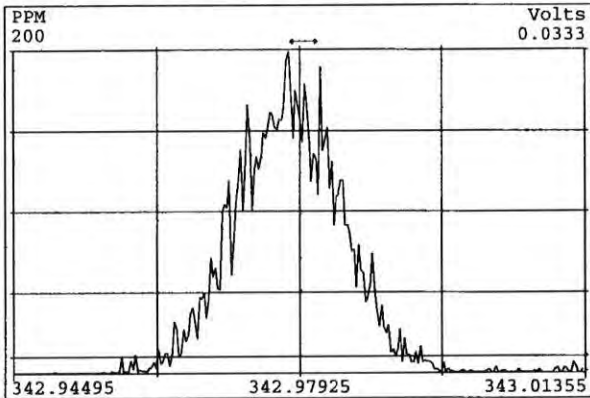
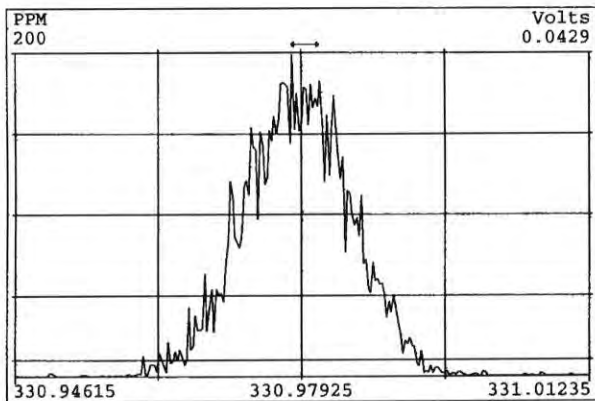
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081225P1	2	17	SIL7-26-2	SIL7-26-2 NEW ICAL CS1	1.0000	100		25-DEC-08	11:02:27
081225P1	3	18	SIL7-26-1	SIL7-26-1 NEW ICAL CS2	1.0000	100		25-DEC-08	11:52:35
081225P1	4	19	SIL7-25-4	SIL7-25-4 NEW ICAL CS3	1.0000	100		25-DEC-08	12:42:45
081225P1	5	20	SIL7-25-3	SIL7-25-3 NEW ICAL CS4	1.0000	100		25-DEC-08	13:32:54
081225P1	6	21	SIL7-25-2	SIL7-25-2 NEW ICAL CS5	1.0000	100		25-DEC-08	14:23:03
081225P1	7	22	SIL7-25-1	SIL7-25-1 NEW STDS CS6	1.0000	100		25-DEC-08	15:13:12



Peak Locate Examination:25-DEC-2008:10:10 File:081225P1  
Experiment:DF\_CL4-8 Function:1 Reference:PFK2

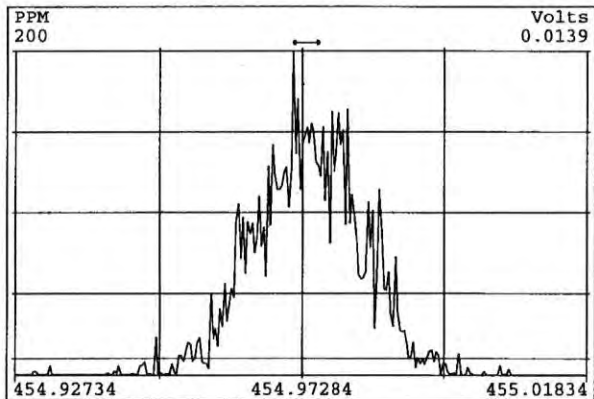
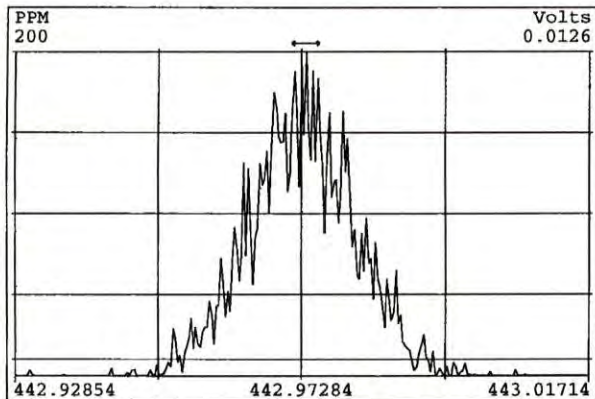
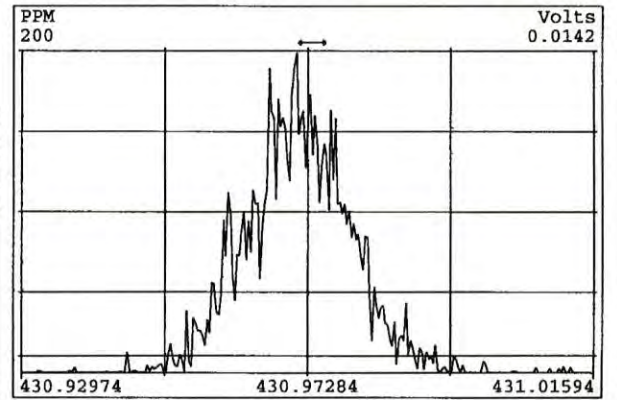
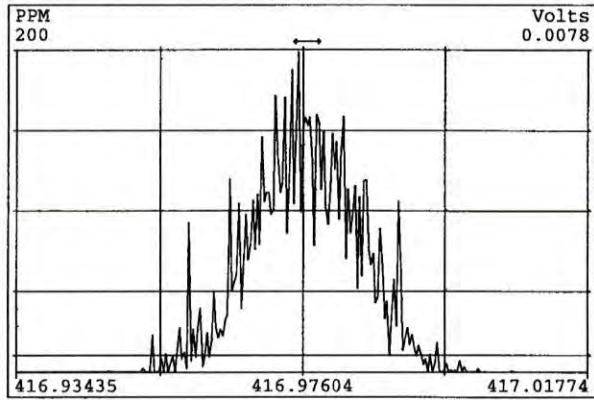
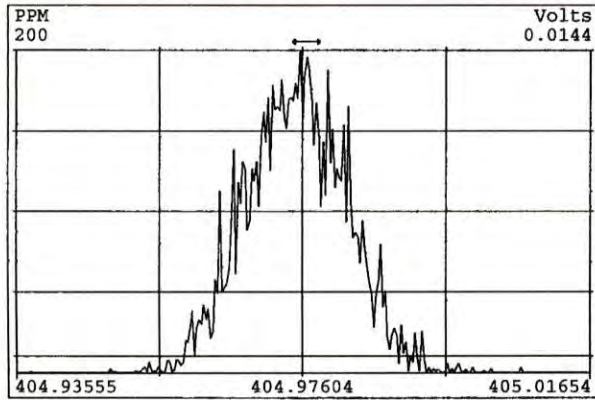
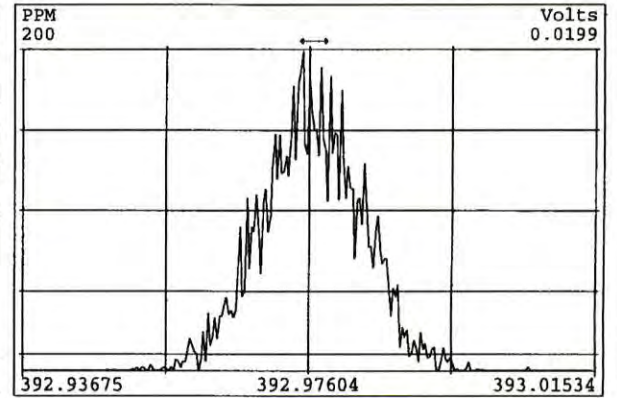
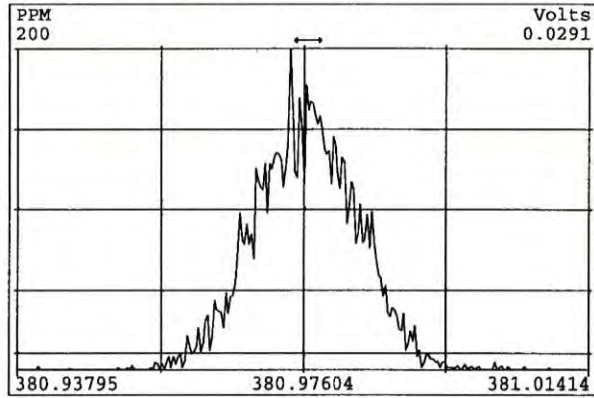
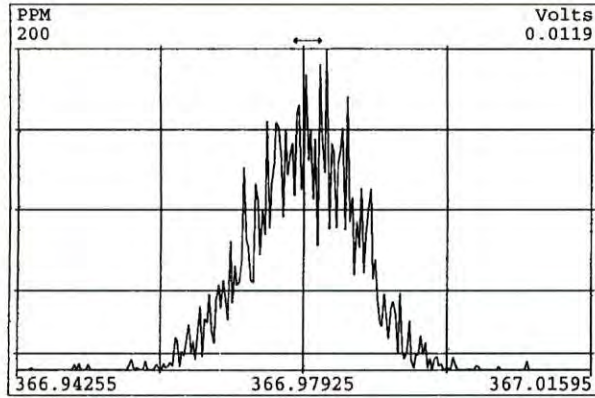


Peak Locate Examination:25-DEC-2008:10:10 File:081225P1  
Experiment:DF\_CL4-8 Function:2 Reference:PFK2



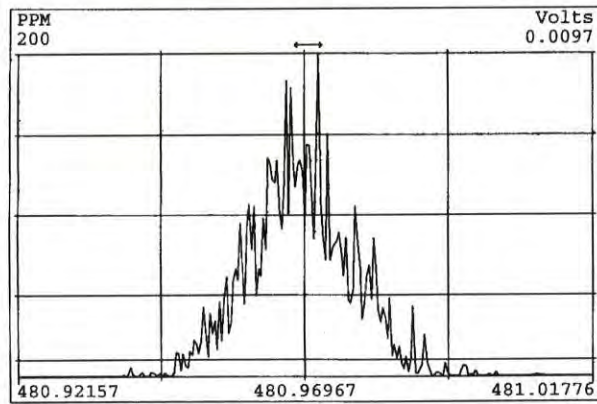
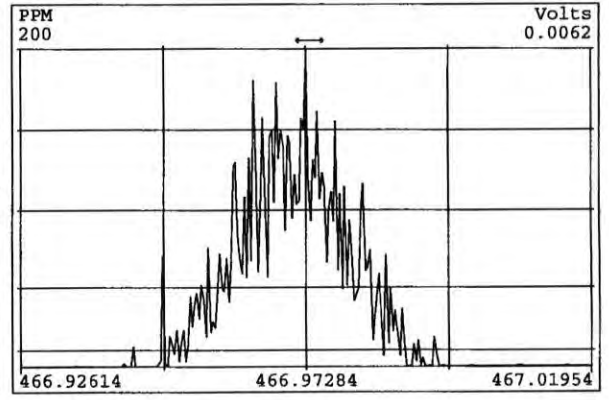
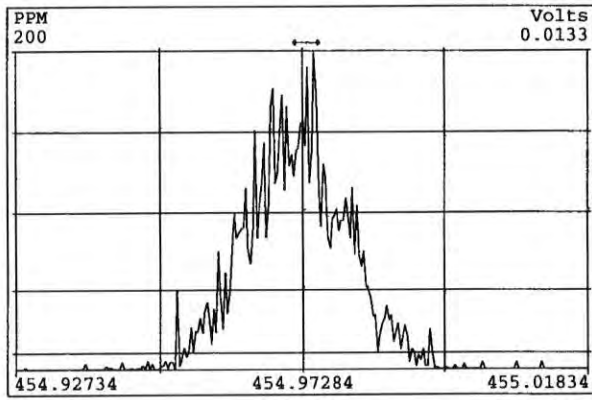
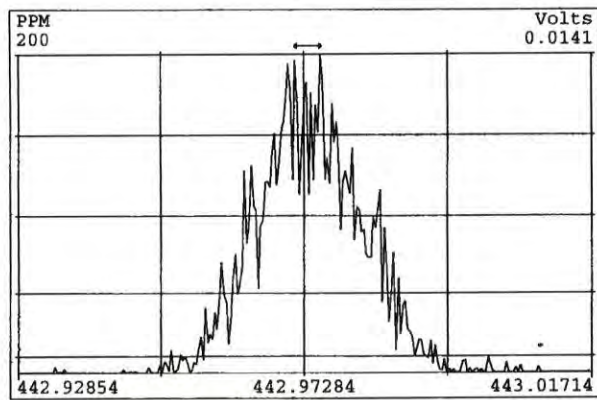
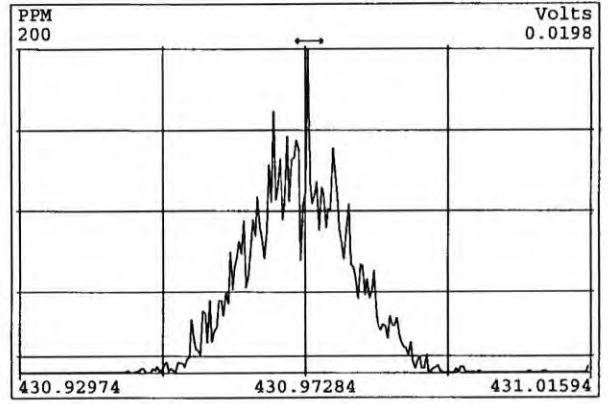
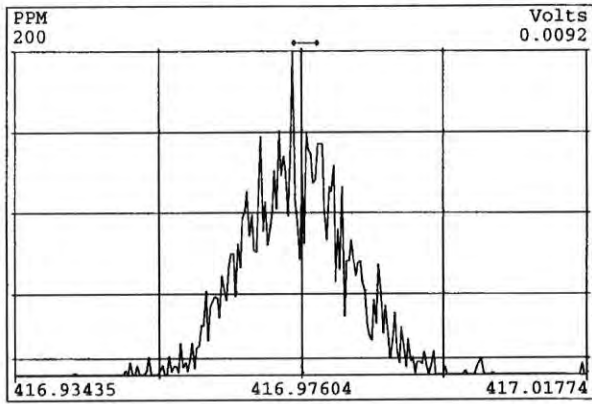
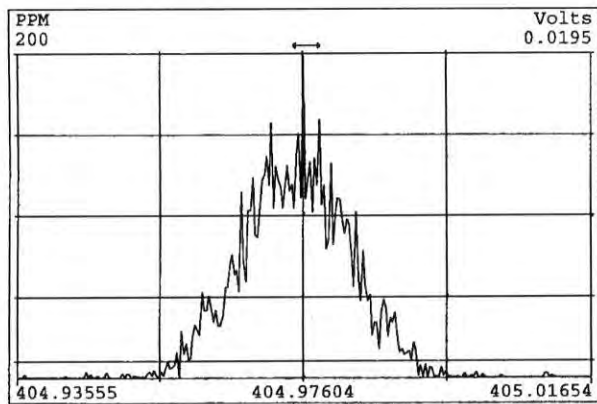


Peak Locate Examination:25-DEC-2008:10:11 File:081225P1  
Experiment:DF\_CL4-8 Function:3 Reference:PFK2

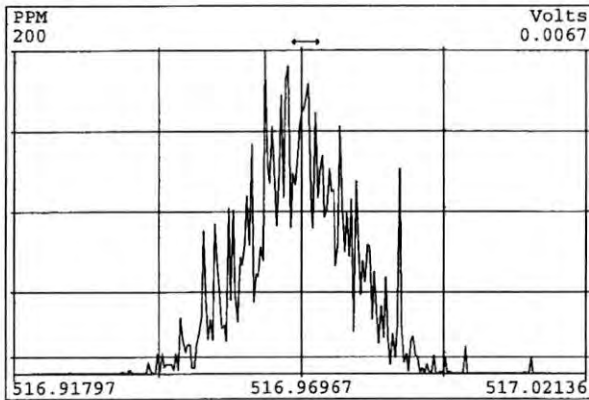
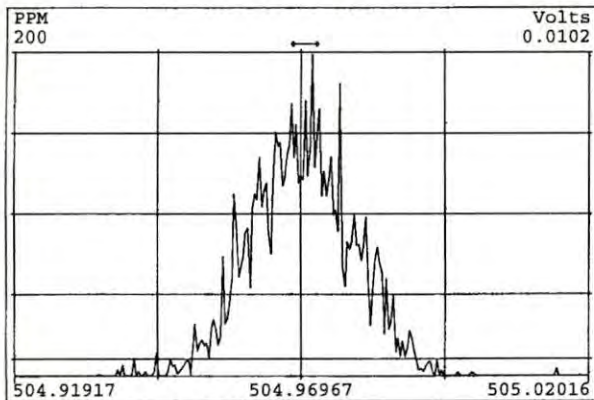
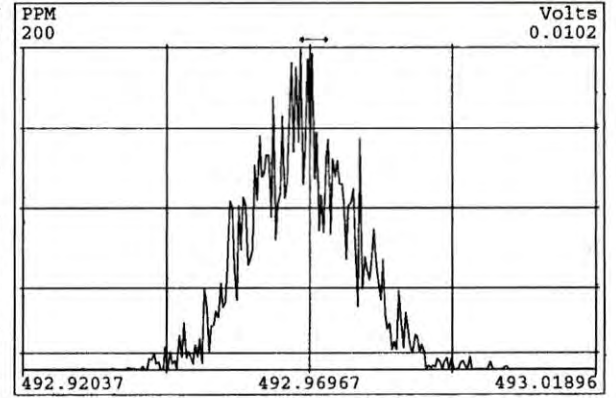
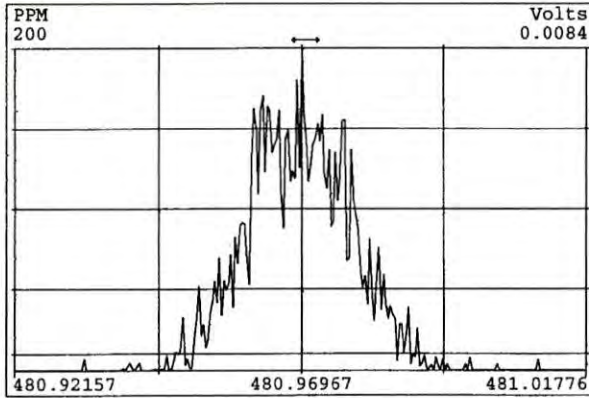
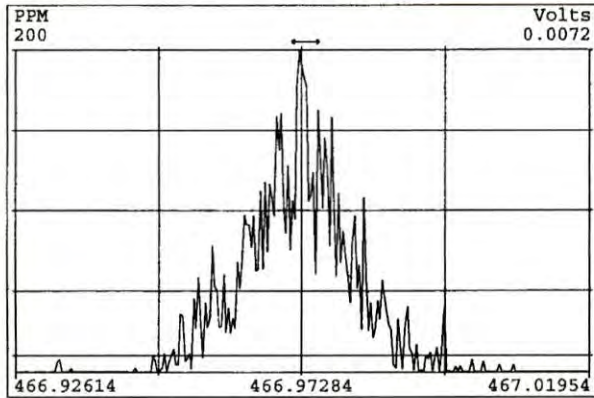
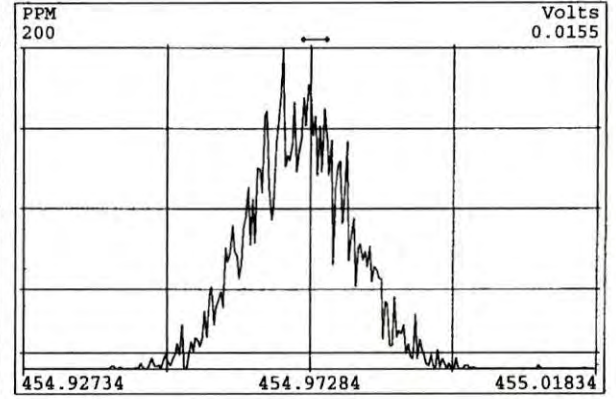
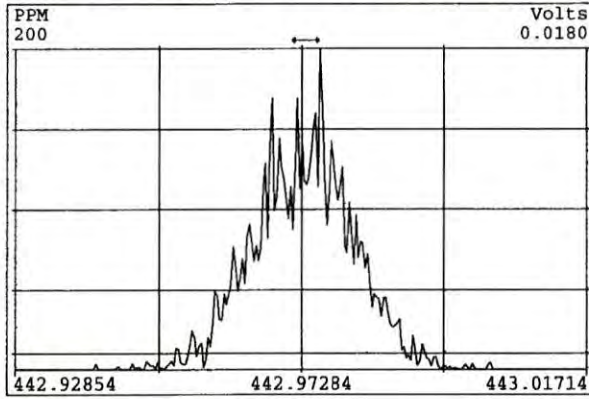
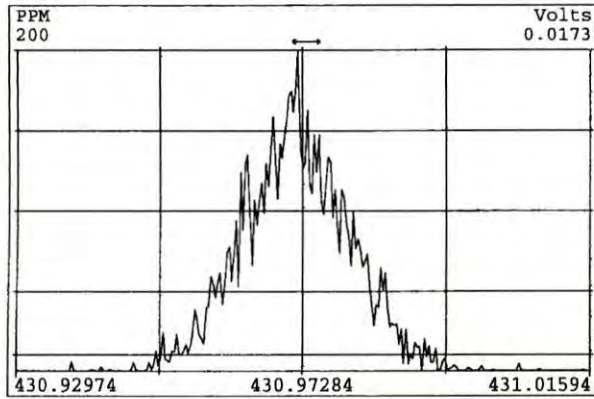




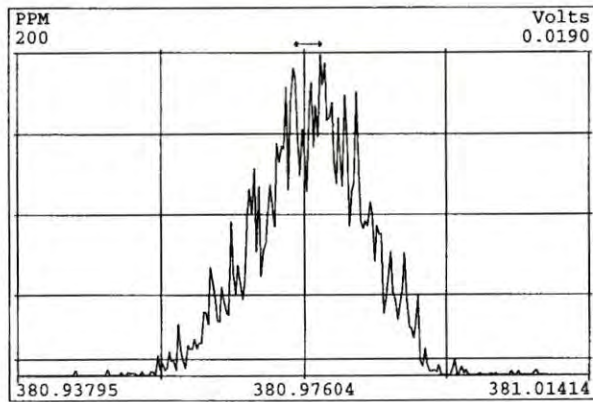
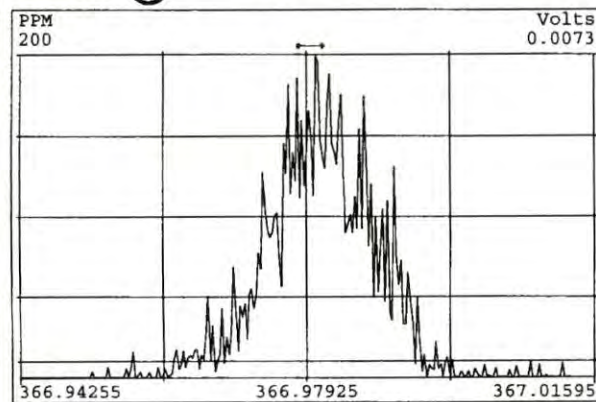
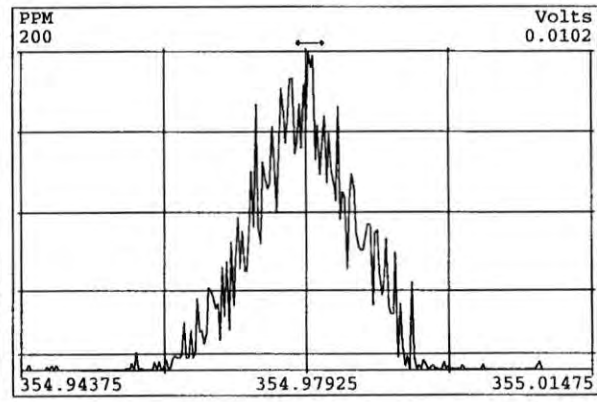
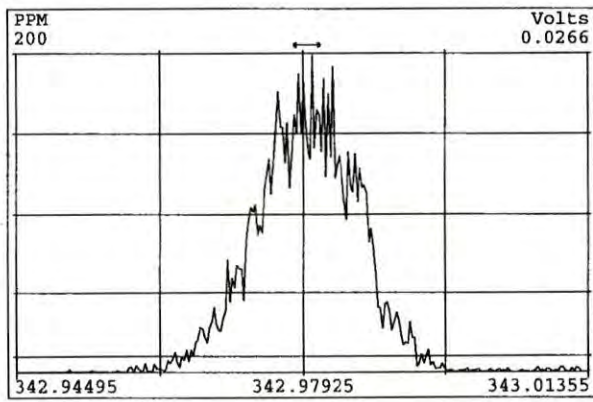
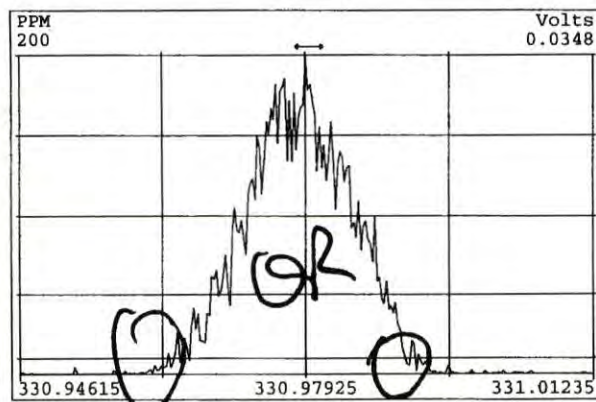
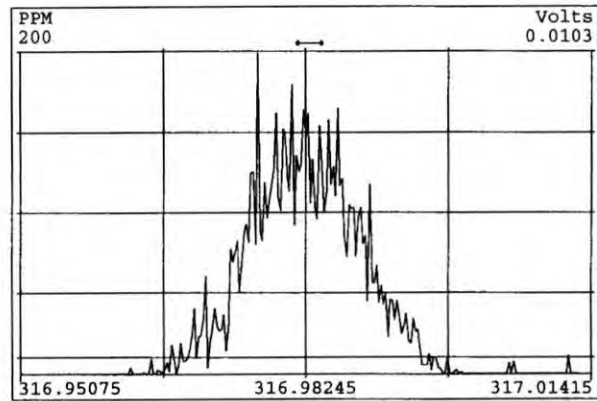
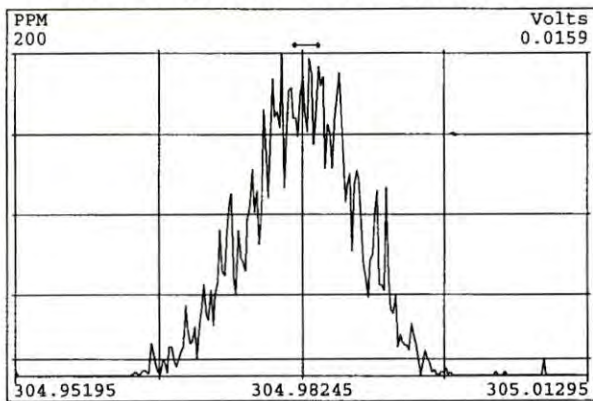
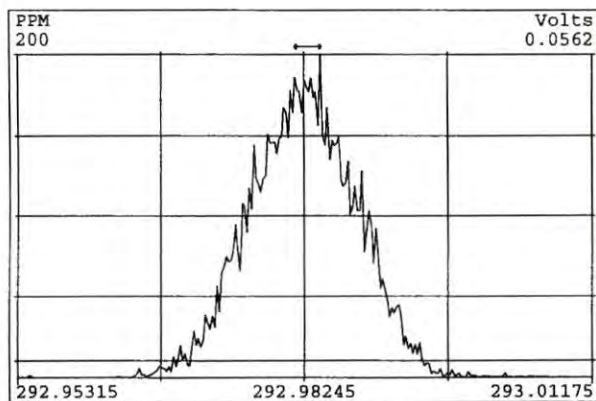
Peak Locate Examination:25-DEC-2008:10:11 File:081225P1  
Experiment:DF\_CL4-8 Function:4 Reference:PFK2



Peak Locate Examination:25-DEC-2008:10:11 File:081225P1  
Experiment:DF\_CL4-8 Function:5 Reference:PFK2

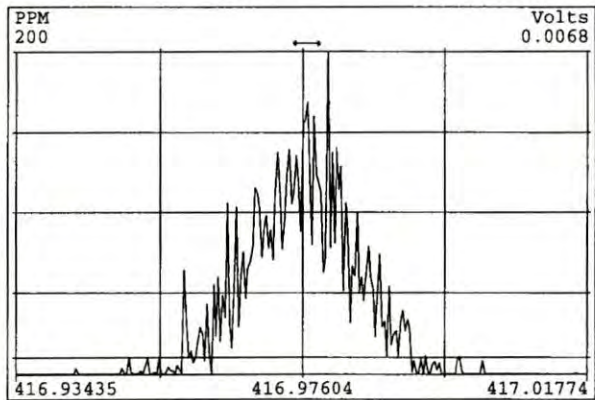
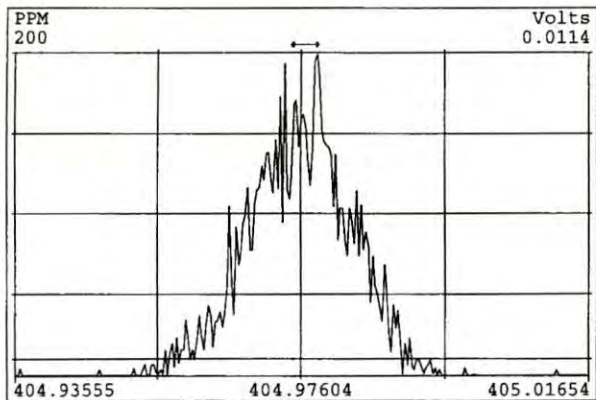
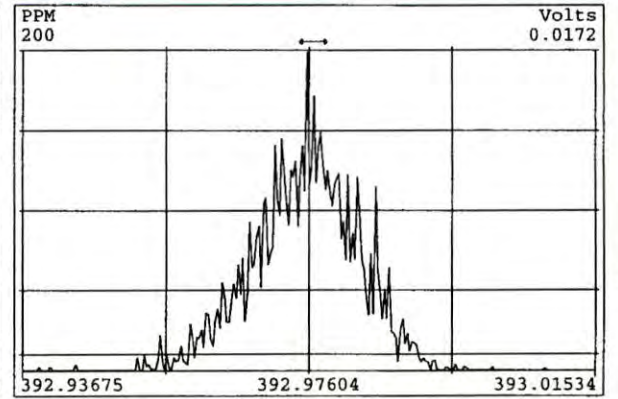
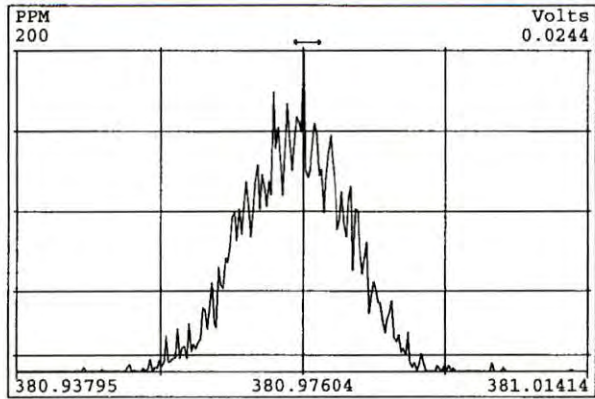
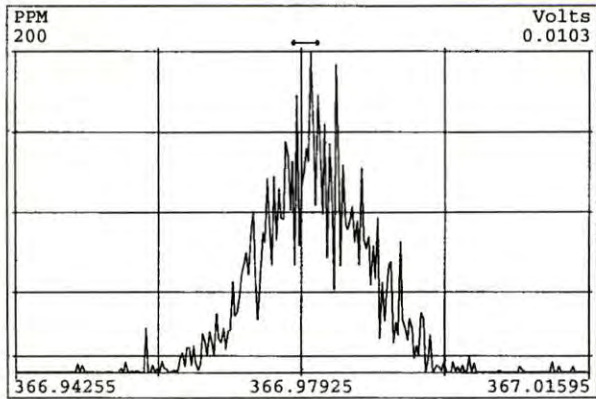
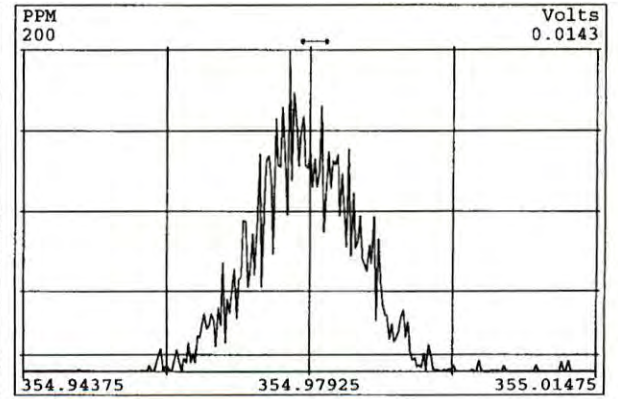
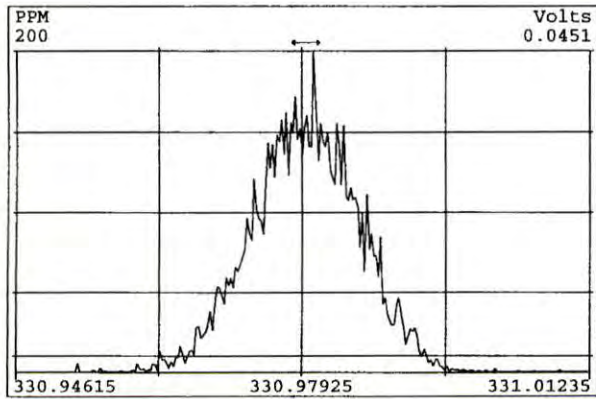


Peak Locate Examination:25-DEC-2008:16:06 File:MM1\_RES\_CHECK  
Experiment:DF\_CL4-8 Function:1 Reference:PFK2

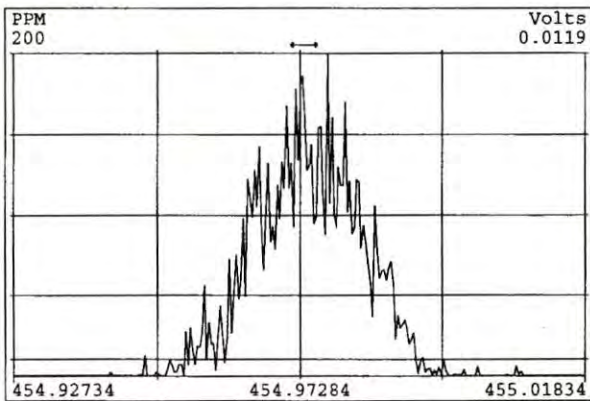
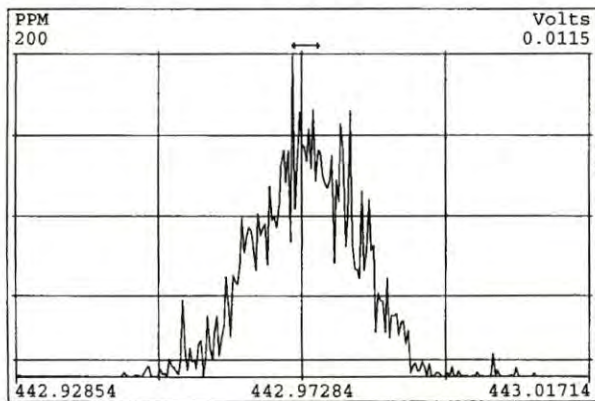
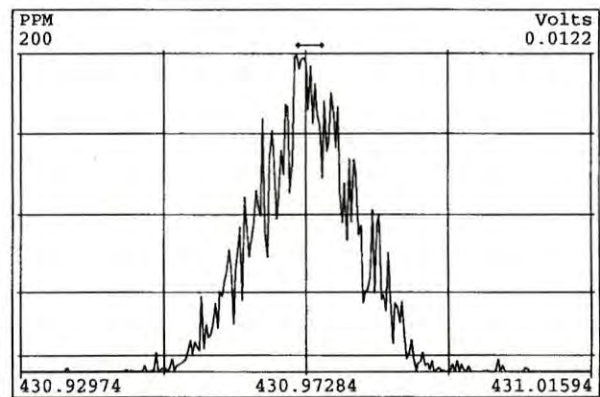
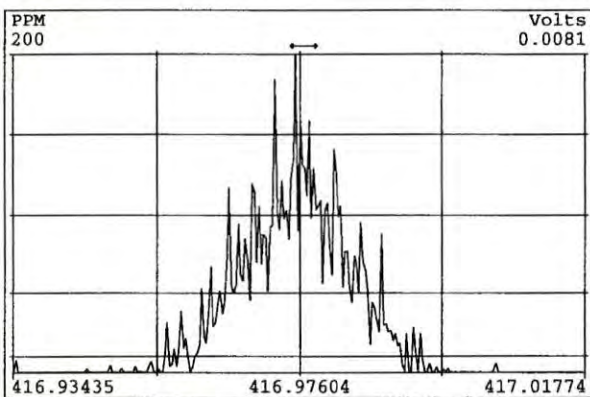
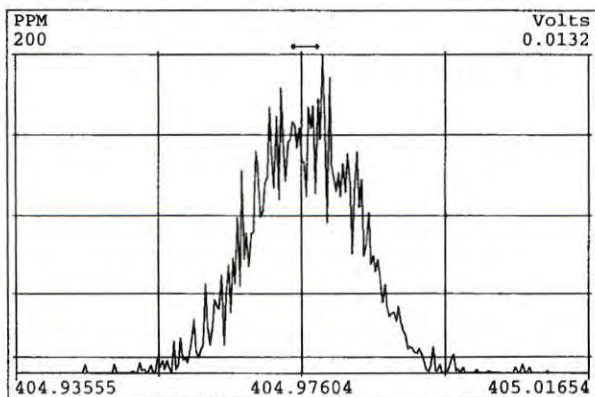
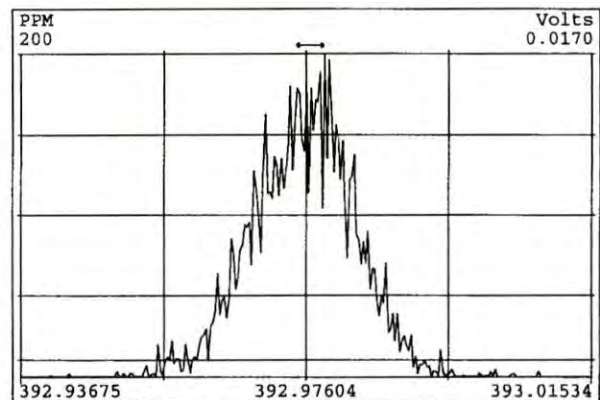
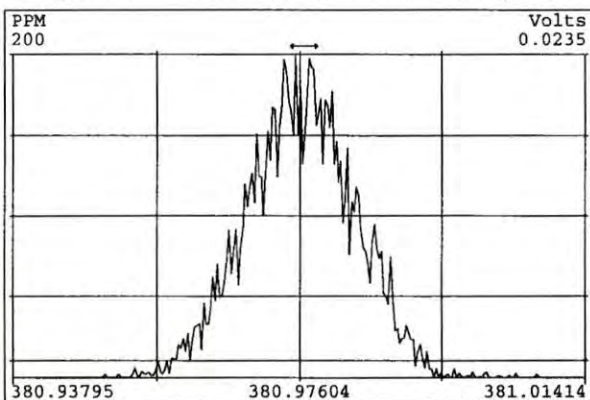
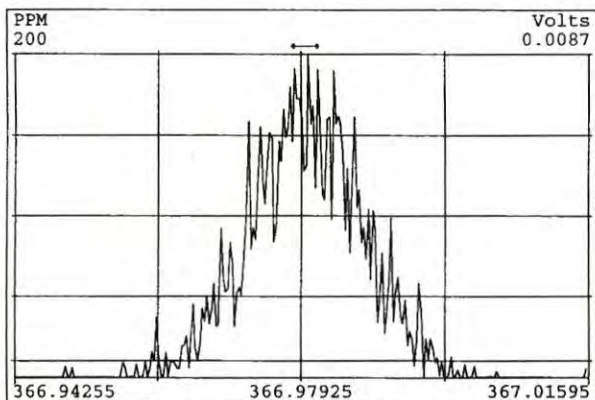




Peak Locate Examination: 25-DEC-2008:16:07 File:MM1\_RES\_CHECK  
Experiment:DF\_CL4-8 Function:2 Reference:PFK2

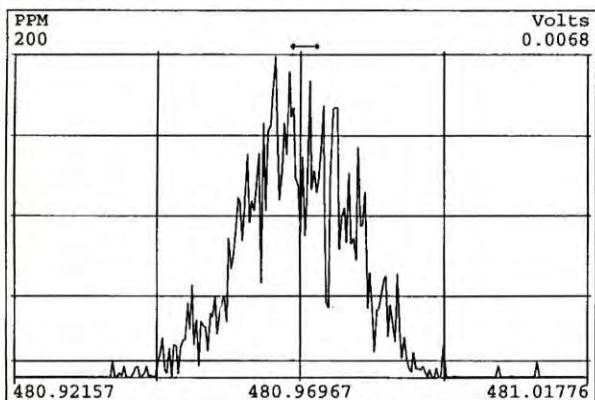
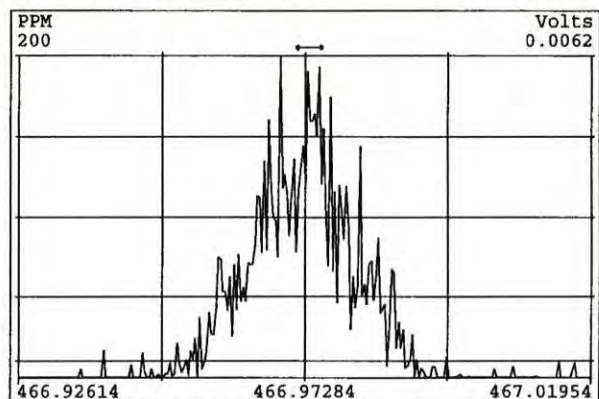
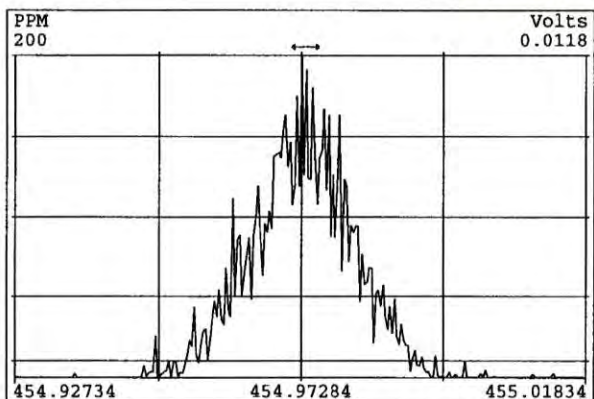
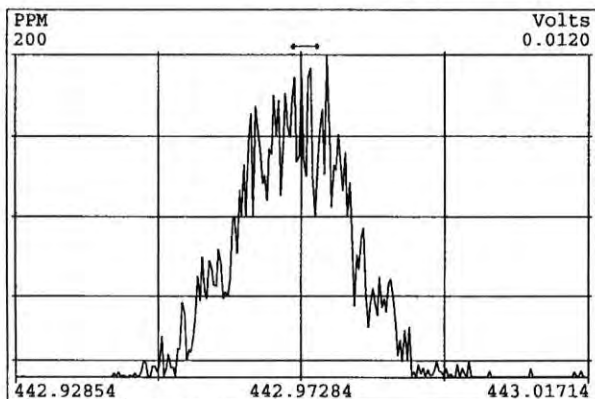
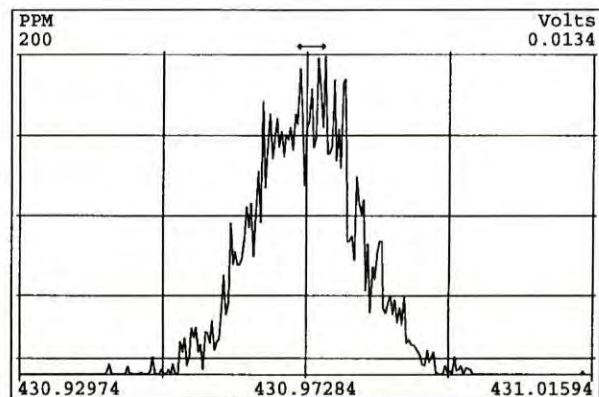
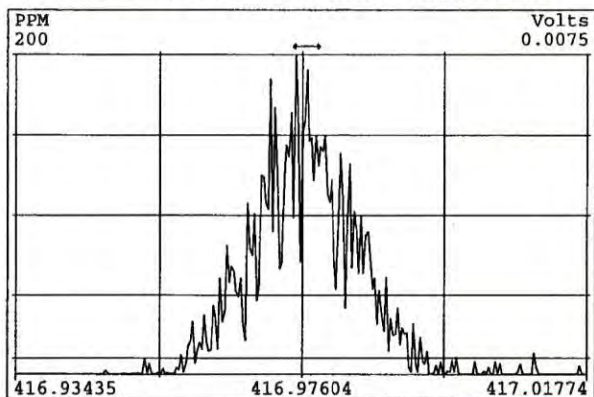
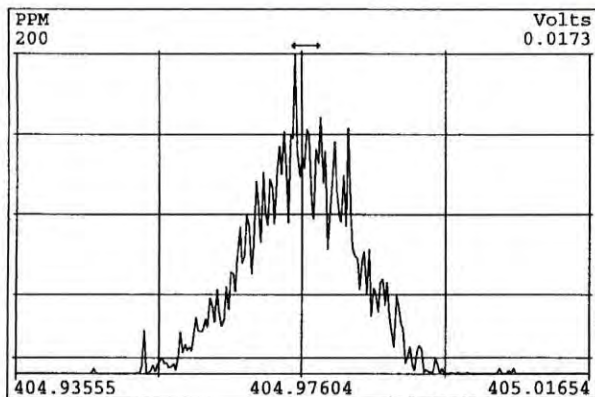


Peak Locate Examination:25-DEC-2008:16:08 File:MM1\_RES\_CHECK  
Experiment:DF\_CL4-8 Function:3 Reference:PFK2



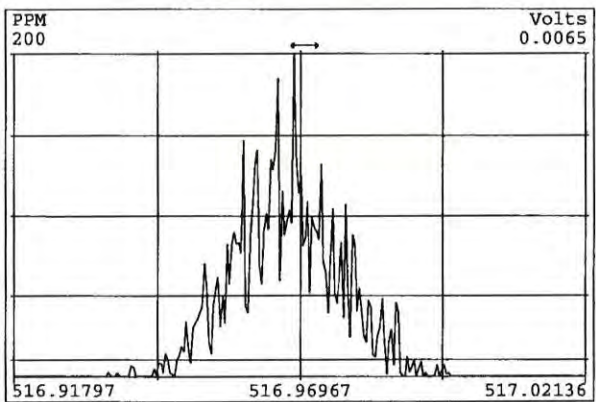
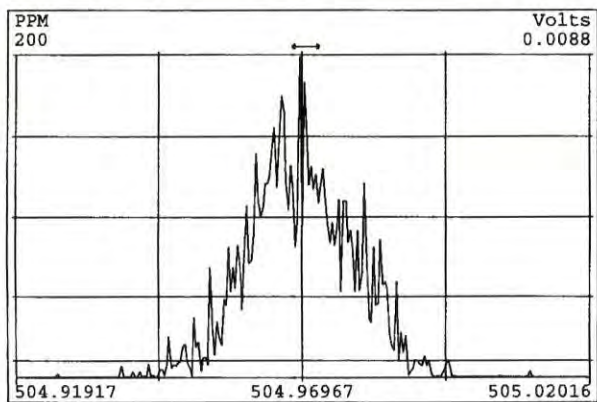
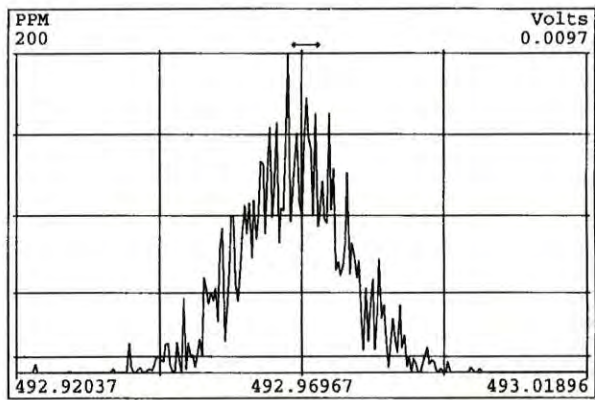
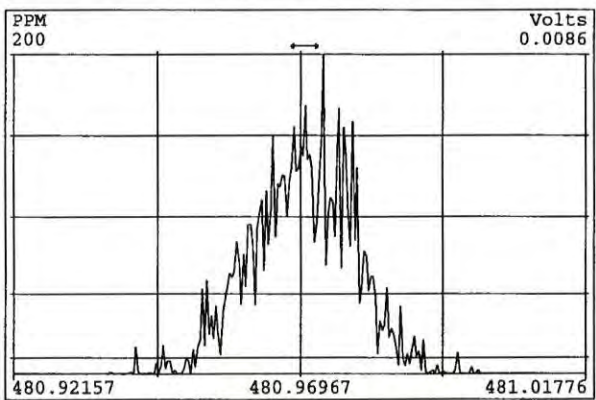
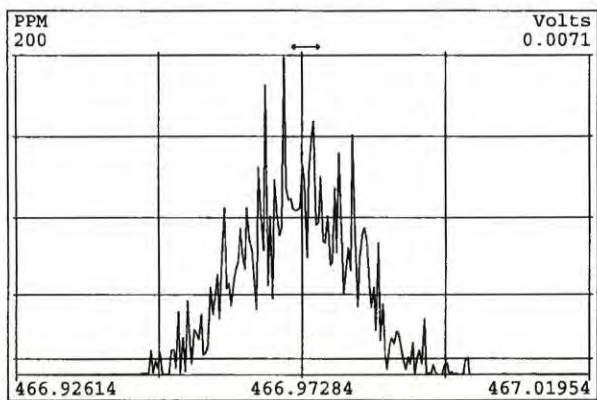
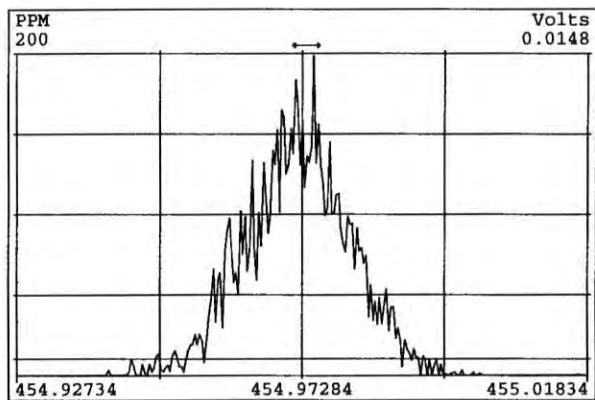
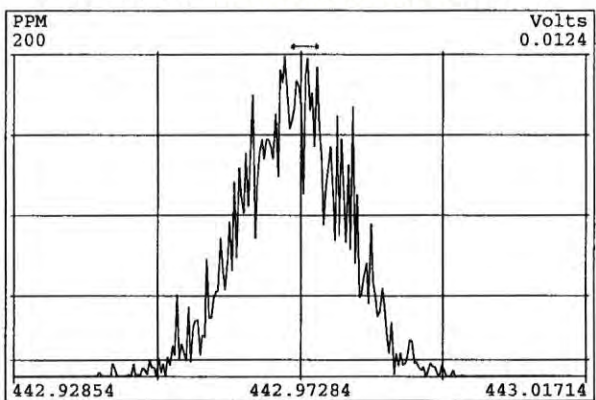
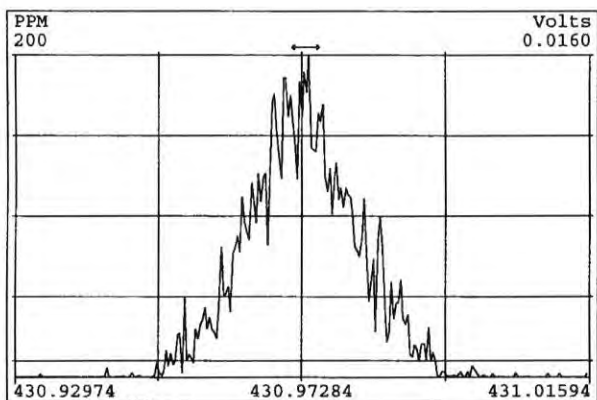


Peak Locate Examination:25-DEC-2008:16:09 File:MM1\_RES\_CHECK  
Experiment:DF\_CL4-8 Function:4 Reference:PFK2





Peak Locate Examination: 25-DEC-2008:16:10 File:MM1\_RES\_CHECK  
Experiment:DF\_CL4-8 Function:5 Reference:PFK2



TM 30 Dec

Calibration Summary

Analytical Perspectives

[Form: CAL]


Client ID: NEW ICAL CS0  
 Lab ID: SIL7-26-3  
 Sample text: SIL7-26-3 NEW ICAL CS0

Filename: 081225P1  
 GC Column ID: db-5

S: 1 Acq: 25-DEC-08 10:12:17  
 ICal: MM1\_DF\_07012007A\_25DEC08 Wt/Vol: 1.000  
 Vial: 16

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Ax 2,3,7,8-TCDD	0.25	1.01e+05	0.70 y	27:06	-	1.08
2	Ax 1,2,3,7,8-PeCDD	1.25	3.69e+05	1.50 y	32:41	-	0.99
3	Ax 1,2,3,4,7,8-HxCDD	1.25	2.90e+05	1.28 y	36:38	-	1.01
4	Ax 1,2,3,6,7,8-HxCDD	1.25	3.01e+05	1.24 y	36:45	-	0.92
5	Ax 1,2,3,7,8,9-HxCDD	1.25	3.08e+05	1.06 y	37:03	-	0.96
6	Ax 1,2,3,4,6,7,8-HpCDD	1.25	2.45e+05	1.14 y	40:15	-	0.93
7	Ax OCDD	2.50	3.39e+05	0.93 y	43:49	-	1.02
8	Ax2 OCDD-a	2.50	*	* n	NotF>	-	*
9	Ax 2,3,7,8-TCDF	0.25	1.47e+05	0.75 y	26:10	-	1.03
10	Ax 1,2,3,7,8-PeCDF	1.25	5.70e+05	1.66 y	31:11	-	0.95
11	Ax 2,3,4,7,8-PeCDF	1.25	6.13e+05	1.59 y	32:19	-	0.99
12	Ax 1,2,3,4,7,8-HxCDF	1.25	4.71e+05	1.34 y	35:39	-	1.19
13	Ax 1,2,3,6,7,8-HxCDF	1.25	5.08e+05	1.25 y	35:48	-	1.07
14	Ax 2,3,4,6,7,8-HxCDF	1.25	4.61e+05	1.14 y	36:27	-	1.08
15	Ax 1,2,3,7,8,9-HxCDF	1.25	3.85e+05	1.21 y	37:25	-	1.04
16	Ax 1,2,3,4,6,7,8-HpCDF	1.25	3.86e+05	1.10 y	39:05	-	1.27
17	Ax 1,2,3,4,7,8,9-HpCDF	1.25	2.90e+05	1.11 y	40:49	-	1.22
18	Ax OCDF	2.50	4.83e+05	0.90 y	44:03	-	0.96
19	Ax2 OCDF-a	2.50	*	* n	NotF>	-	*
20	ES 13C-2,3,7,8-TCDD	100.00	3.76e+07	0.81 y	27:04	-	0.98
21	ES 13C-1,2,3,7,8-PeCDD	100.00	2.99e+07	1.66 y	32:40	-	0.78
22	ES 13C-1,2,3,4,7,8-HxCDD	100.00	2.29e+07	1.28 y	36:37	-	1.01
23	ES 13C-1,2,3,6,7,8-HxCDD	100.00	2.60e+07	1.27 y	36:44	-	1.15
24	ES 13C-1,2,3,7,8,9-HxCDD	100.00	2.57e+07	1.27 y	37:02	-	1.14
25	ES 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.11e+07	1.05 y	40:14	-	0.93
26	ES 13C-OCDD	200.00	2.67e+07	0.87 y	43:49	-	0.59
27	ES 13C-2,3,7,8-TCDF	100.00	5.72e+07	0.80 y	26:08	-	0.94
28	ES 13C-1,2,3,7,8-PeCDF	100.00	4.79e+07	1.54 y	31:10	-	0.79
29	ES 13C-2,3,4,7,8-PeCDF	100.00	4.94e+07	1.58 y	32:18	-	0.81
30	ES 13C-1,2,3,4,7,8-HxCDF	100.00	3.16e+07	0.53 y	35:38	-	1.40
31	ES 13C-1,2,3,6,7,8-HxCDF	100.00	3.79e+07	0.54 y	35:47	-	1.68
32	ES 13C-2,3,4,6,7,8-HxCDF	100.00	3.42e+07	0.53 y	36:26	-	1.52
33	ES 13C-1,2,3,7,8,9-HxCDF	100.00	2.95e+07	0.53 y	37:25	-	1.31
34	ES 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.44e+07	0.46 y	39:04	-	1.08
35	ES 13C-1,2,3,4,7,8,9-HpCDF	100.00	1.90e+07	0.45 y	40:49	-	0.84
36	ES 13C-OCDF	200.00	4.04e+07	0.90 y	44:03	-	0.90
37	CS 37C1-2,3,7,8-TCDD	0.25	*		NotF>	-	*
38	CS 13C-1,2,3,4,7-PeCDD	100.00	2.88e+07	1.65 y	32:09	-	0.75
39	CS 13C-1,2,3,4,6-PeCDF	100.00	4.70e+07	1.59 y	30:38	-	0.77
40	CS 13C-1,2,3,4,6,9-HxCDF	100.00	3.17e+07	0.52 y	36:06	-	1.40
41	CS 13C-1,2,3,4,6,8,9-HpCDF	100.00	2.06e+07	0.44 y	39:34	-	0.91
42	NA n/a	100.00	*	* n	NotF>	-	*
43	JS/RT 13C-1,2,3,4-TCDD	100.00	3.85e+07	0.83 y	26:24	3.85e+05	-
44	JS 13C-1,2,3,4-TCDF	100.00	6.08e+07	0.78 y	24:43	6.08e+05	-
45	JS/RT 13C-1,2,3,4,6,7-HxCDD	50.00	1.13e+07	1.26 y	36:56	2.26e+05	-

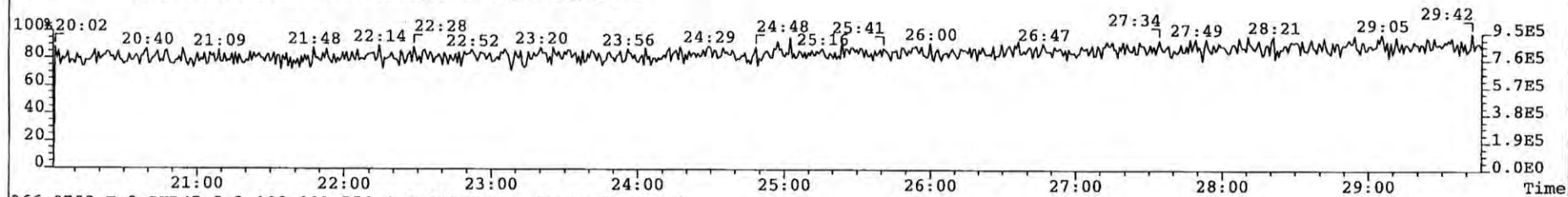
Cal 0.25 pg/ml

Analyst:   
 Date: 25 Dec 2008

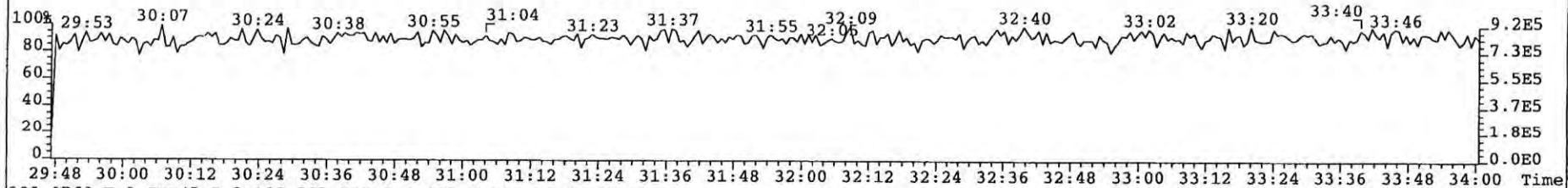
46	SS	37C1-2,3,7,8-TCDD	0.25	*		NotF>>	-	*
47	SS	13C-1,2,3,4,7-PeCDD	100.00	2.88e+07	1.65 y	32:09	-	0.96
48	SS	13C-1,2,3,4,6-PeCDF	100.00	4.70e+07	1.59 y	30:38	-	0.98
49	SS	13C-1,2,3,4,6,9-HxCDF	100.00	3.17e+07	0.52 y	36:06	-	0.83
50	SS	13C-1,2,3,4,6,8,9-HpCDF	100.00	2.06e+07	0.44 y	39:34	-	0.85 ✓
51	SBS	2,4,6,8-TCDF	-	-	- n	-	-	1.03
52	Ay	1,3,6,8-TCDD	-	-	- n	-	-	1.08 ✓
53	Ay	1,2,3,9-TCDD	-	-	- n	-	-	1.08
54	Ay	1,2,8,9-TCDD	-	-	- n	-	-	1.08
55	Ay	1,2,4,7,9-PeCDD	-	-	- n	-	-	0.99 ✓
56	Ay	1,2,3,8,9-PeCDD	-	-	- n	-	-	0.99
57	Ay	1,2,4,6,7,9-HxCDD	-	-	- n	-	-	0.96
58	Ay	1,2,3,4,6,7,9-HpCDD	-	-	- n	-	-	0.93
59	Ay	1,3,6,8-TCDF	-	-	- n	-	-	1.03
60	Ay	2,3,4,8-TCDF	-	-	- n	-	-	1.03
61	Ay	1,2,8,9-TCDF	-	-	- n	-	-	1.03
62	Ay	1,3,4,6,8-PeCDF	-	-	- n	-	-	1.03 ✓
63	Ay	1,2,3,8,9-PeCDF	-	-	- n	-	-	0.97
64	Ay	1,2,3,4,6,8-HxCDF	-	-	- n	-	-	1.10
65	Tot	Total Tetra-Dioxins	-	-	- n	-	-	1.08 ✓
66	Tot	Total Penta-Dioxins	-	-	- n	-	-	0.99
67	Tot	Total Hexa-Dioxins	-	-	- n	-	-	0.96
68	Tot	Total Hepta-Dioxins	-	-	- n	-	-	0.93 ✓
69	Tot	Total Tetra-Furans	-	-	- n	-	-	1.03
70	Tot	Total Penta-Furans	-	-	- n	-	-	0.97
71	Tot	Total Hexa-Furans	-	-	- n	-	-	1.10
72	Tot	Total Hepta-Furans	-	-	- n	-	-	1.25 ✓
73	Tot	TCDD EMPC	-	-	- n	-	-	1.08 ✓
74	Tot	PeCDD EMPC	-	-	- n	-	-	0.99
75	Tot	HxCDD EMPC	-	-	- n	-	-	0.96
76	Tot	HpCDD EMPC	-	-	- n	-	-	0.93 ✓
77	Tot	TCDF EMPC	-	-	- n	-	-	1.03
78	Tot	PeCDF EMPC	-	-	- n	-	-	0.97
79	Tot	HxCDF EMPC	-	-	- n	-	-	1.10
80	Tot	HpCDF EMPC	-	-	- n	-	-	1.25 ✓
81	AS	13C-1,3,6,8-TCDD	100.00	4.21e+07	0.82 y	23:09	-	1.09 ✓
82	AS	13C-1,3,6,8-TCDF	100.00	6.69e+07	0.78 y	20:57	-	1.10 ✓
83	DPE	HxCDPPE	-	1.87e+04		26:22	-	-
84	DPE	HpCDPE	-	7.50e+03		31:07	-	-
85	DPE	OCDPPE	-	1.72e+04		34:48	-	-
86	DPE	NCDPE	-	6.93e+03		40:03	-	-
87	DPE	DCDPE	-	*		NotF>>	-	-
88	LMC	Fn1 check mass	-	*		NotF>>	-	-
89	LMC	Fn2 check mass	-	*		NotF>>	-	-
90	LMC	Fn3 check mass	-	*		NotF>>	-	-
91	LMC	Fn4 check mass	-	*		NotF>>	-	-
92	LMC	Fn5 check mass	-	*		NotF>>	-	-



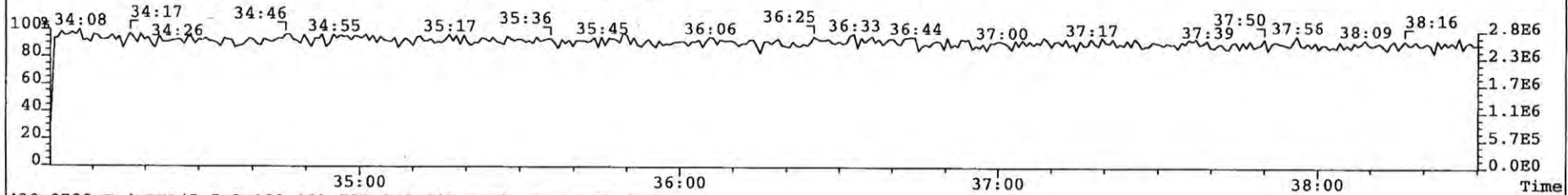
File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5  
316.9824 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



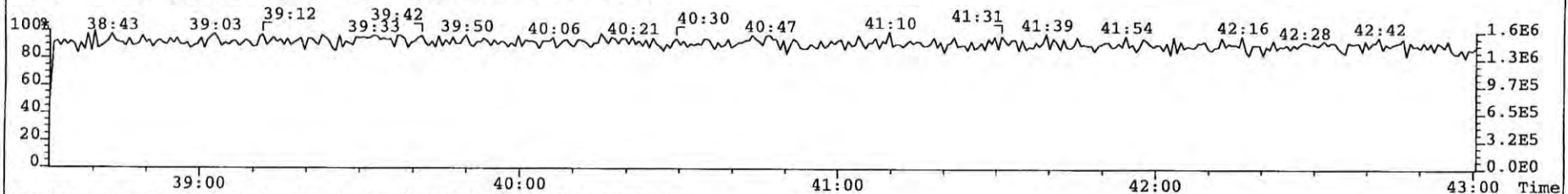
366.9792 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



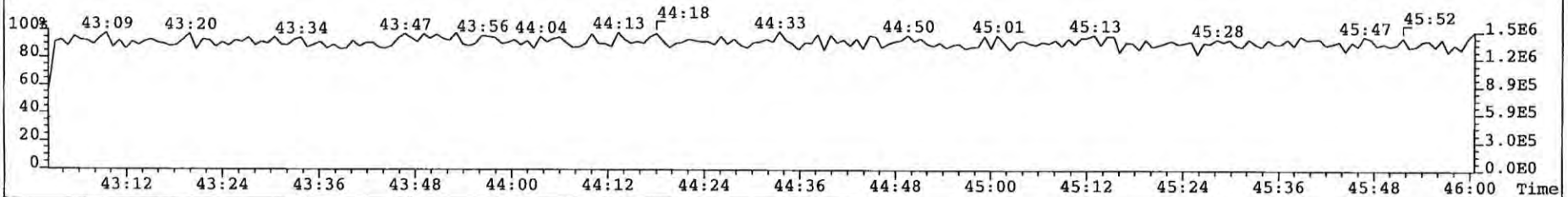
380.9760 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



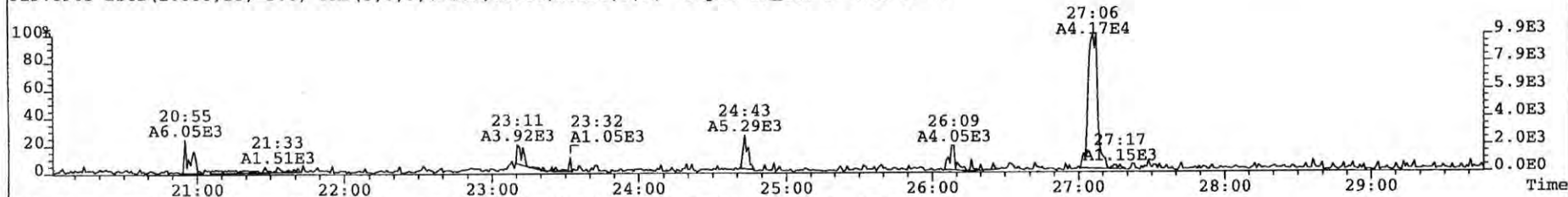
430.9728 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



454.9728 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



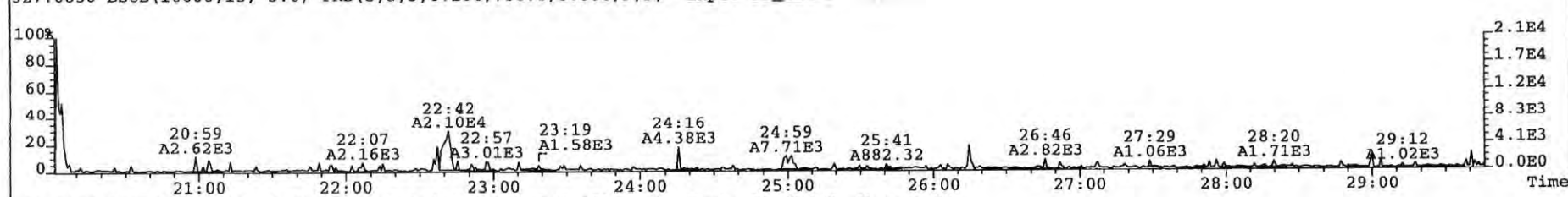
File: 081225F1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5  
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 73



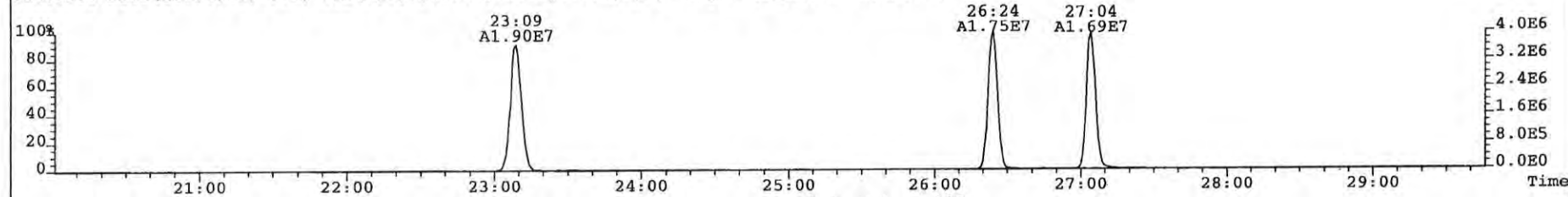
321.8936 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 72



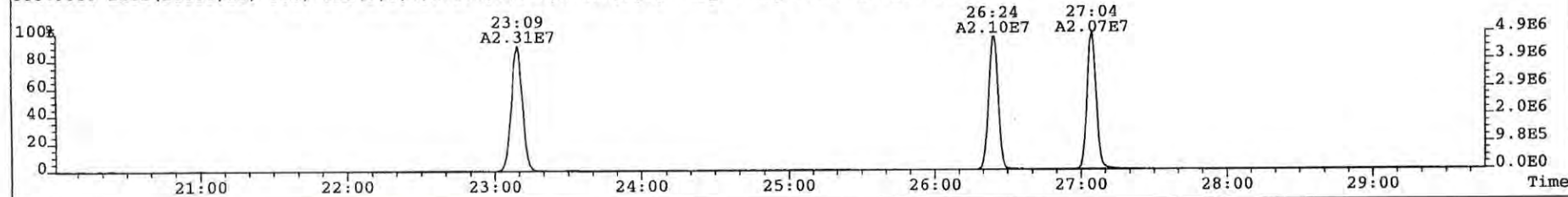
327.8850 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 88



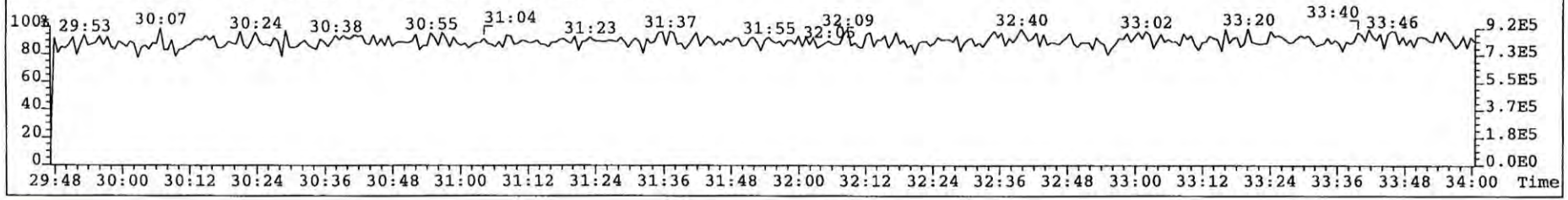
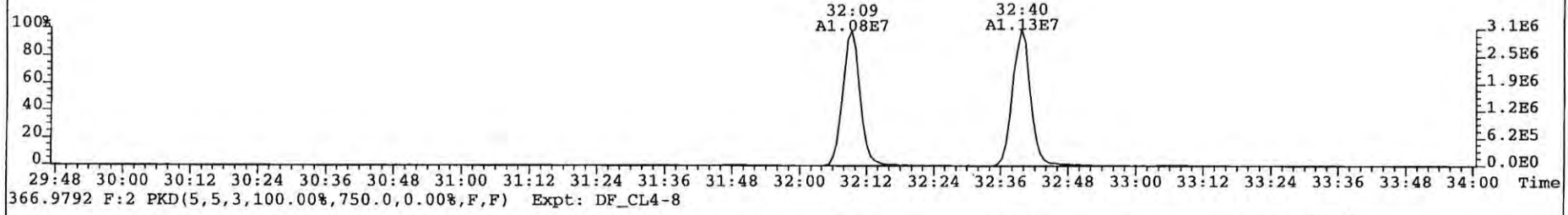
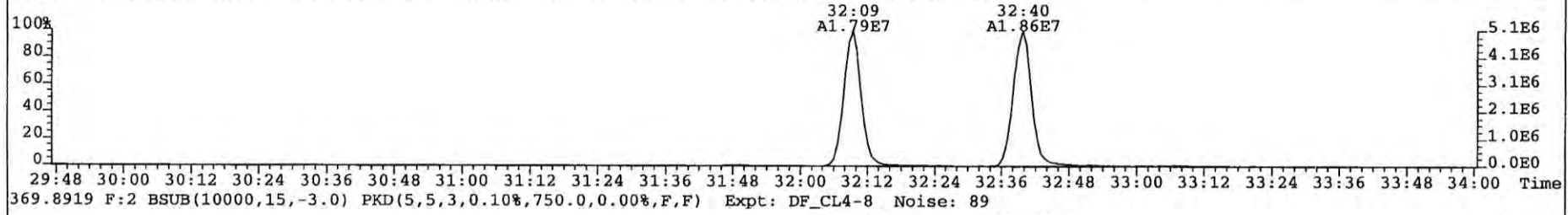
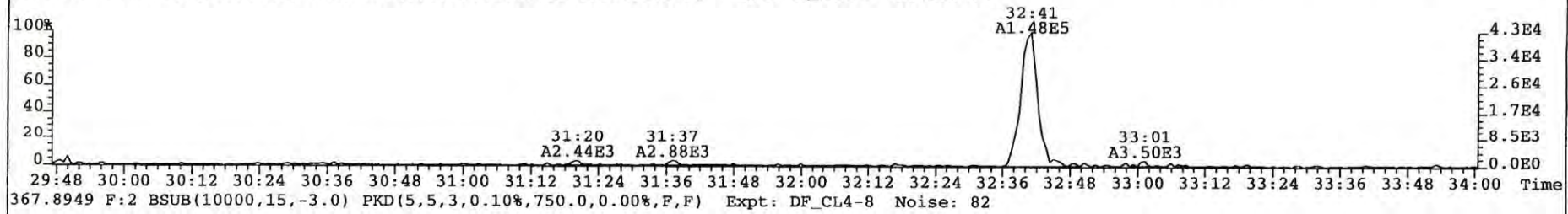
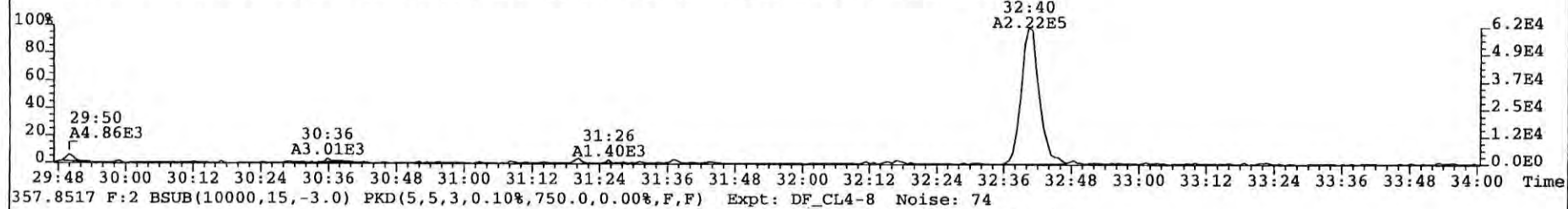
331.9368 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 89



333.9339 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 105



File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5  
355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 73

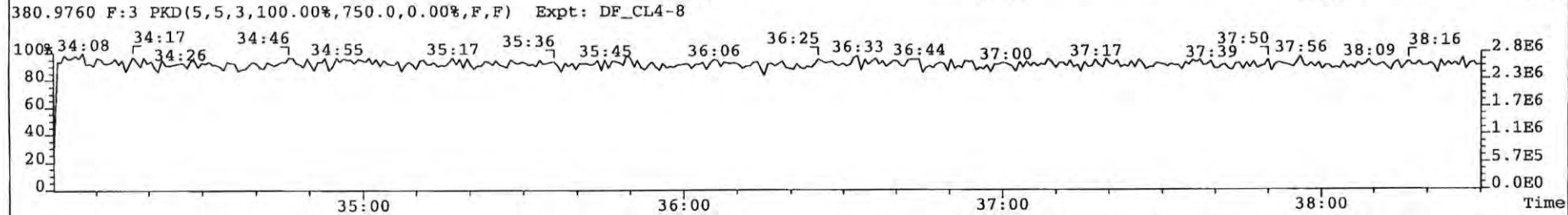
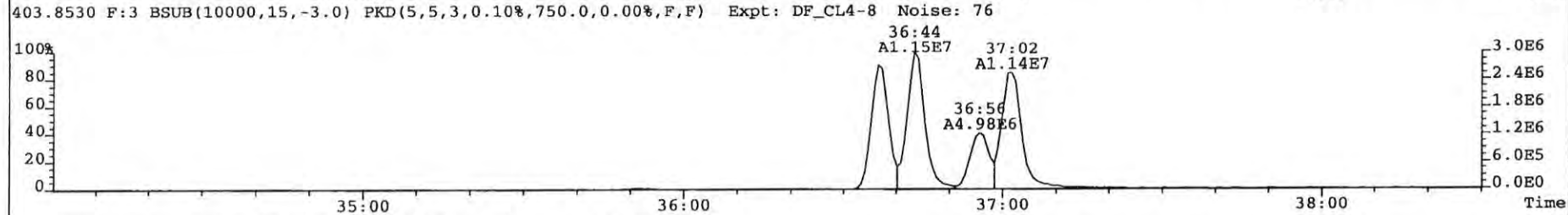
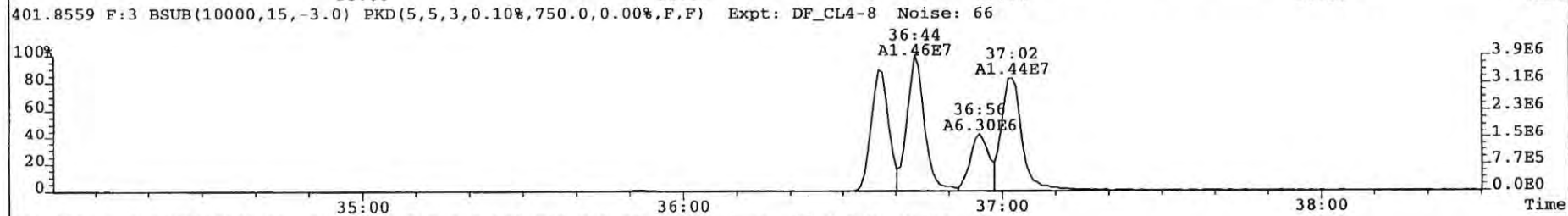
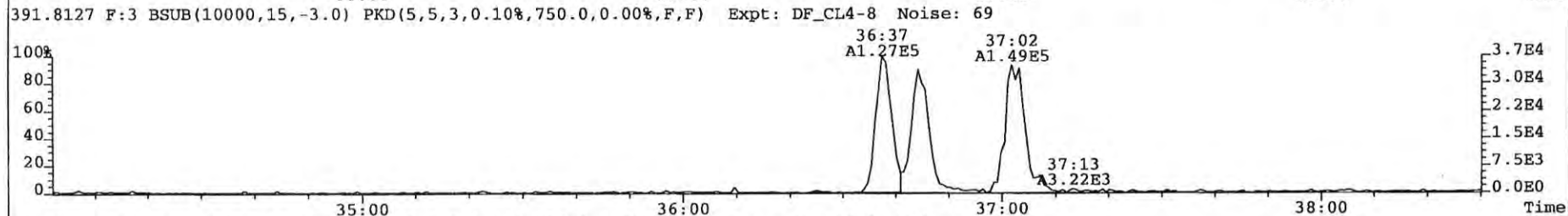
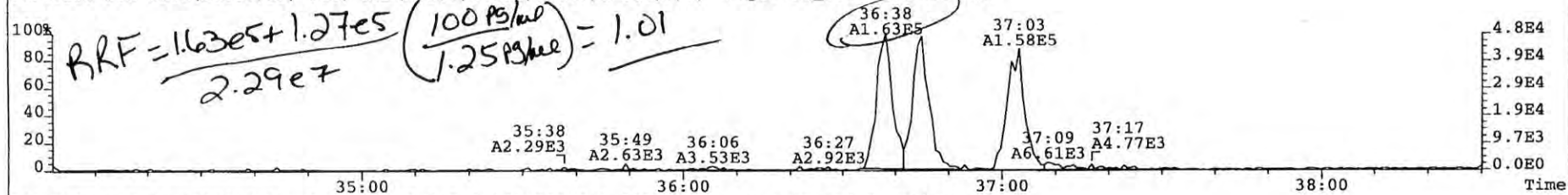




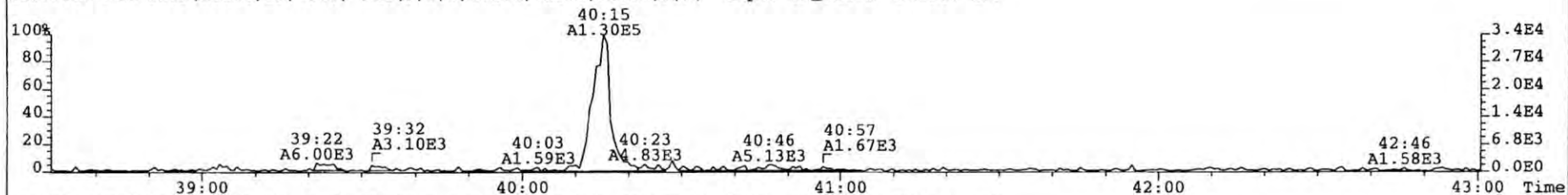
File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5

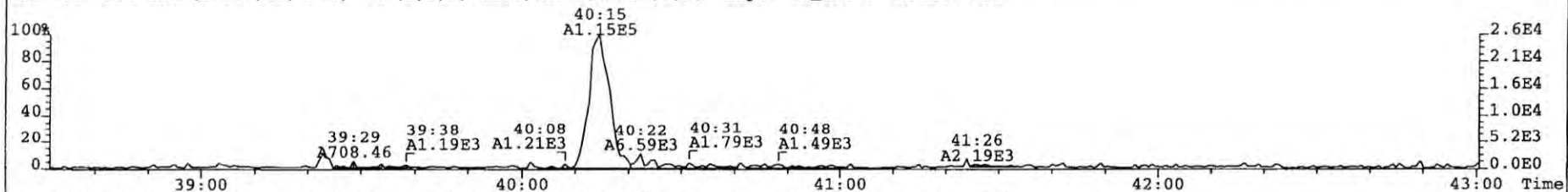
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 81



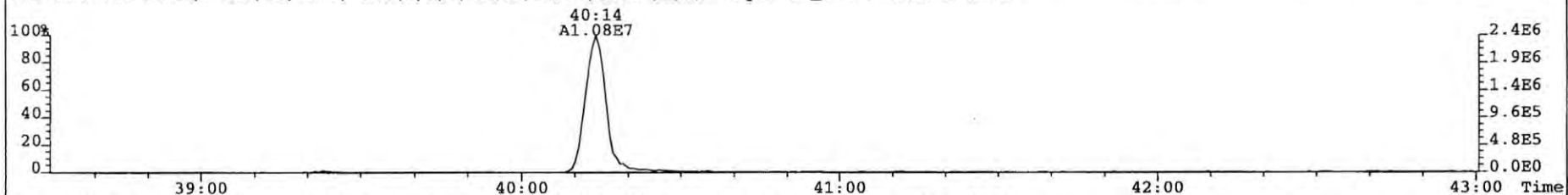
File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5  
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 137



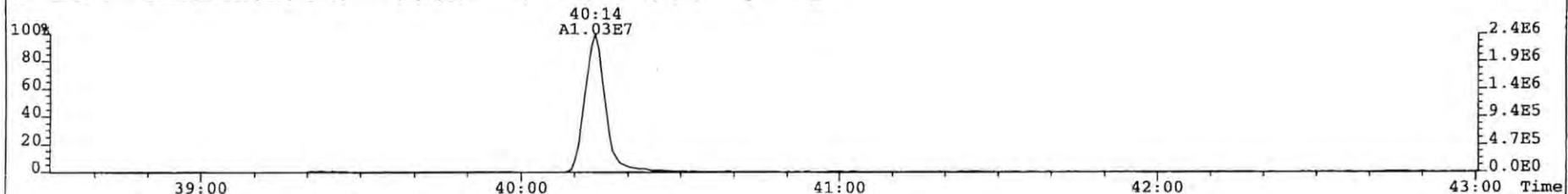
425.7737 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 112



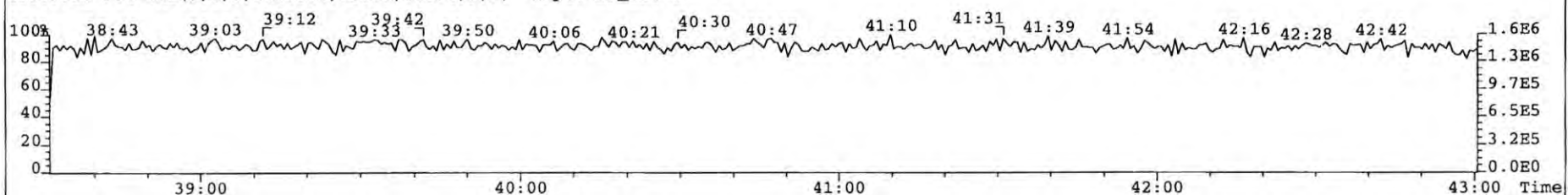
435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 1083



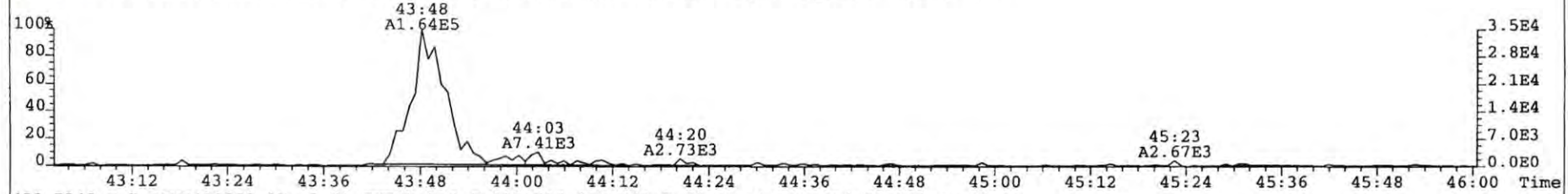
437.8140 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 1154



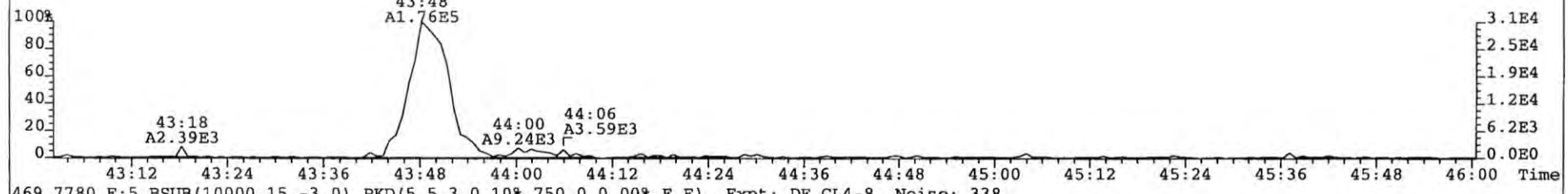
430.9728 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



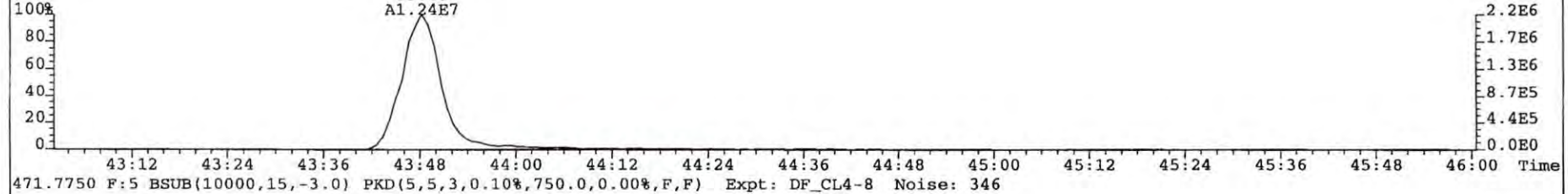
File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5  
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 75



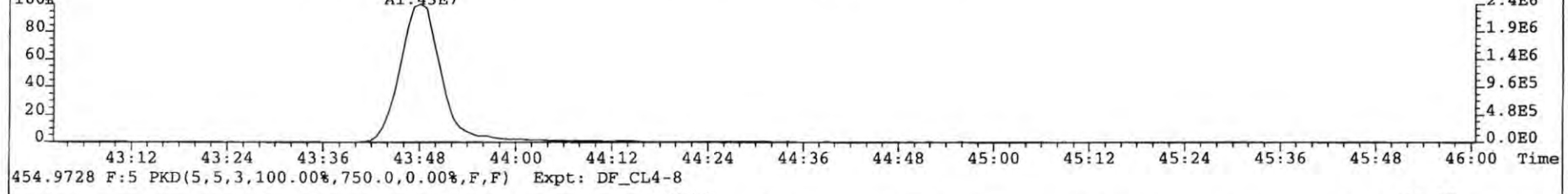
459.7348 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 63



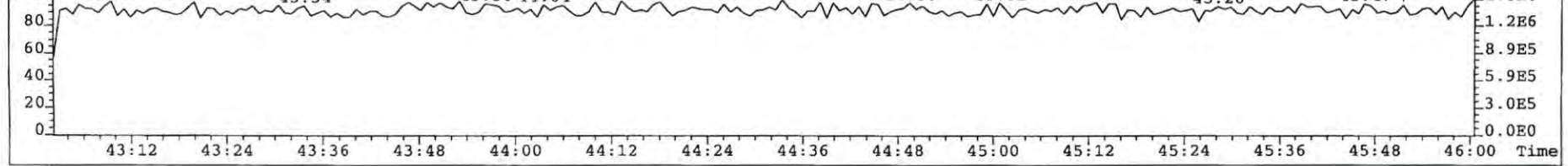
469.7780 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 338



471.7750 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 346



454.9728 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

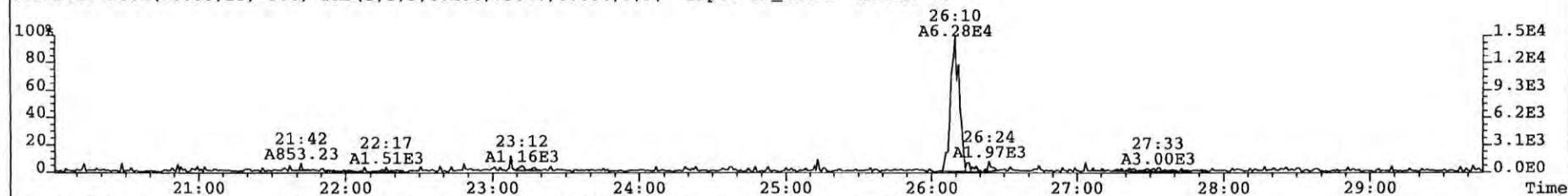




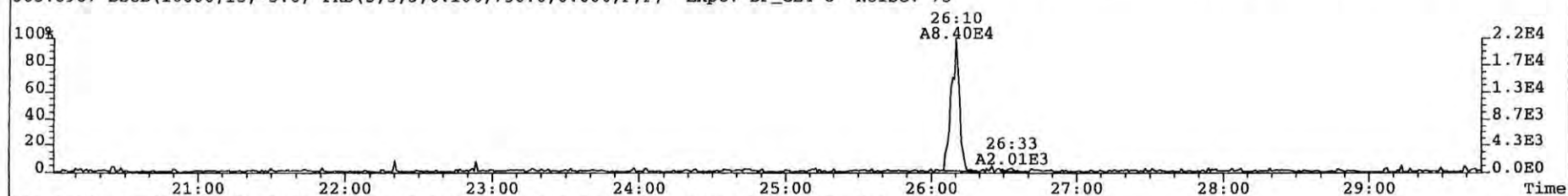
File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5

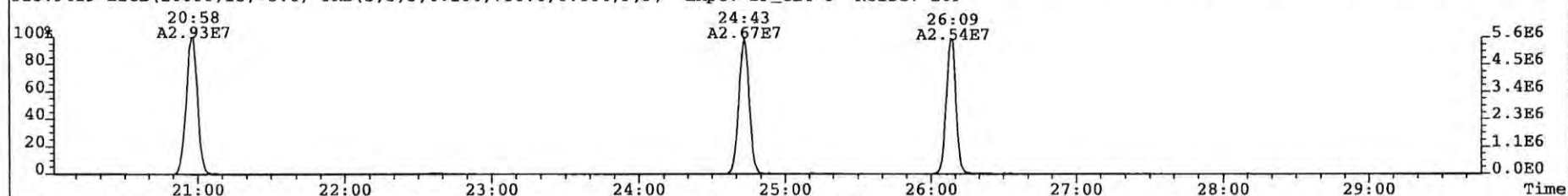
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 77



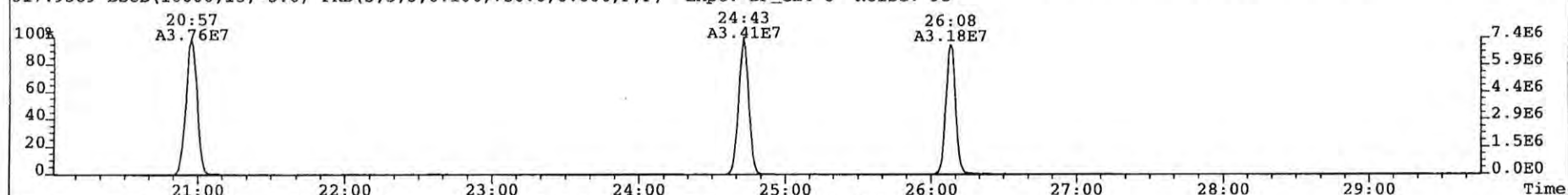
305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 75



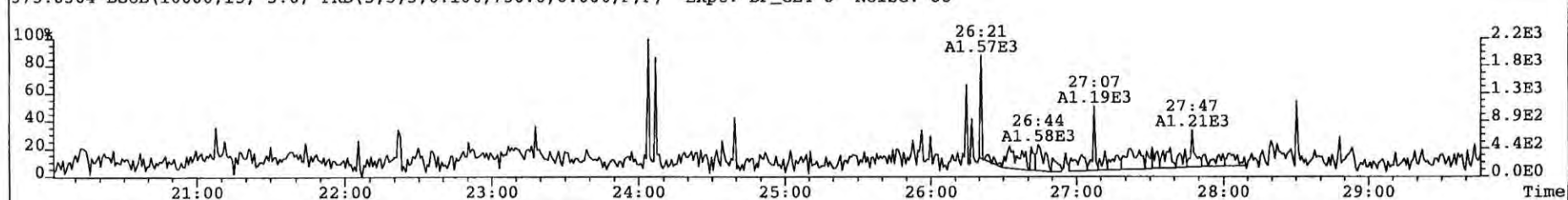
315.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 109



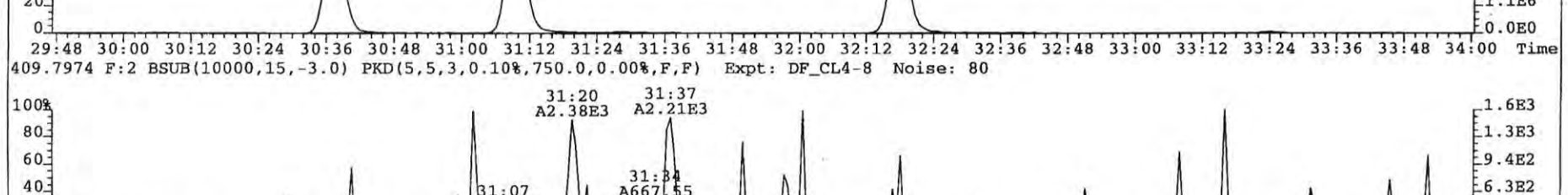
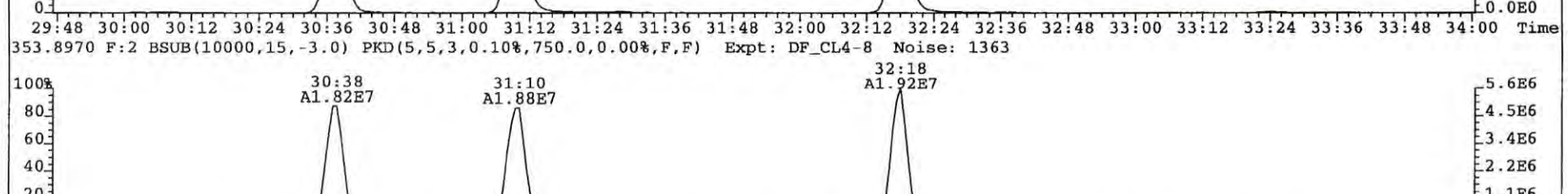
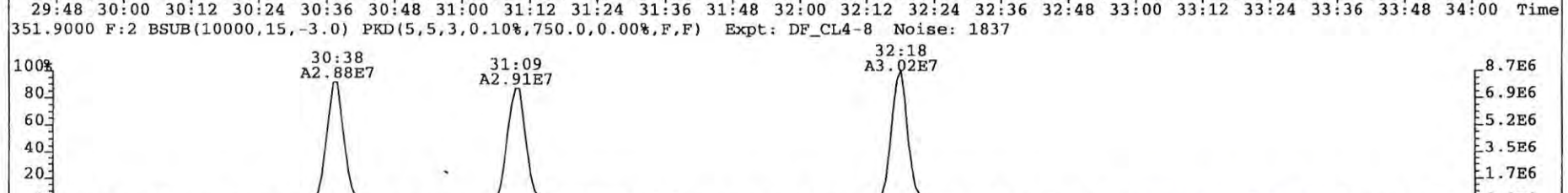
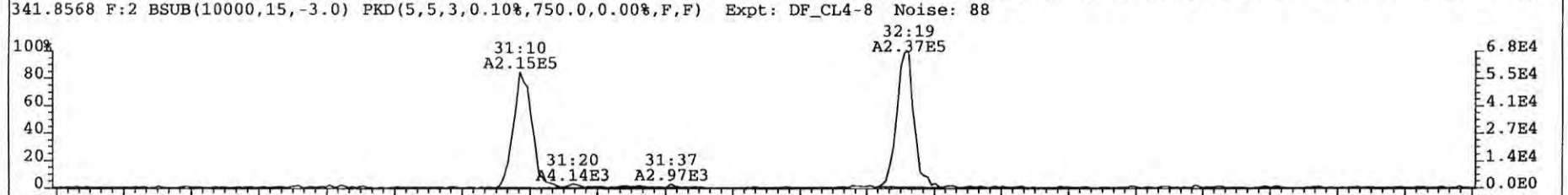
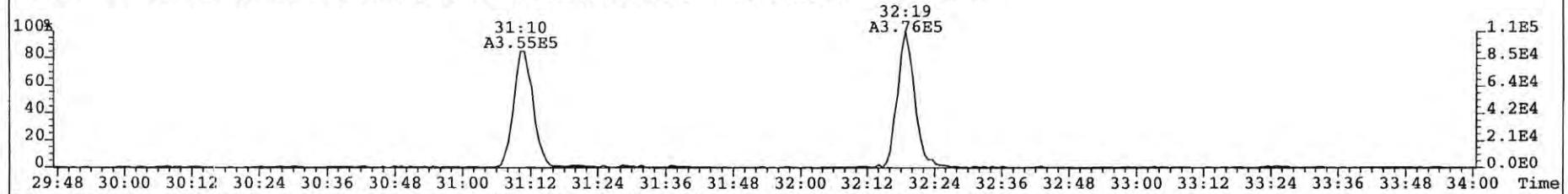
317.9389 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 95



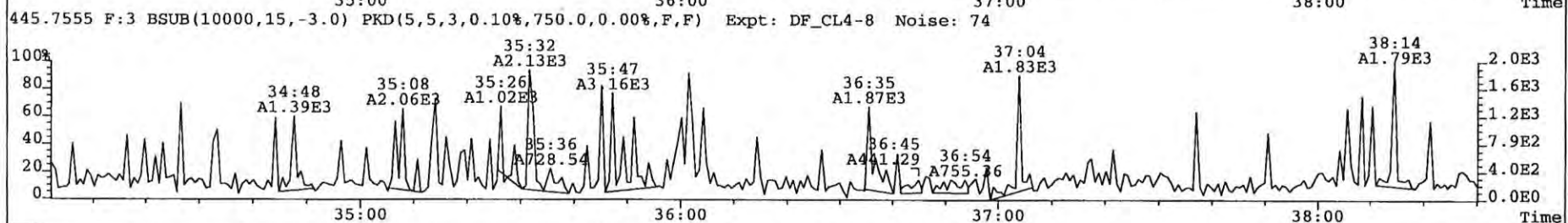
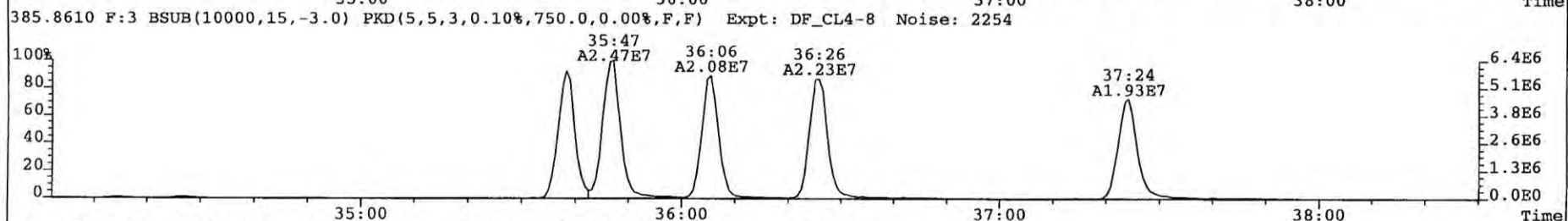
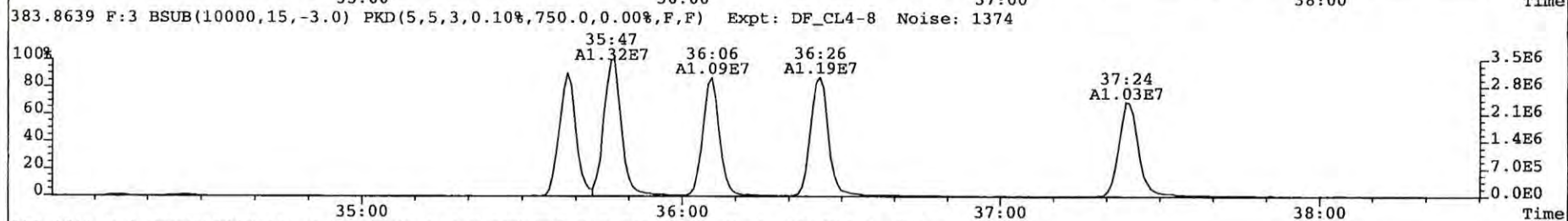
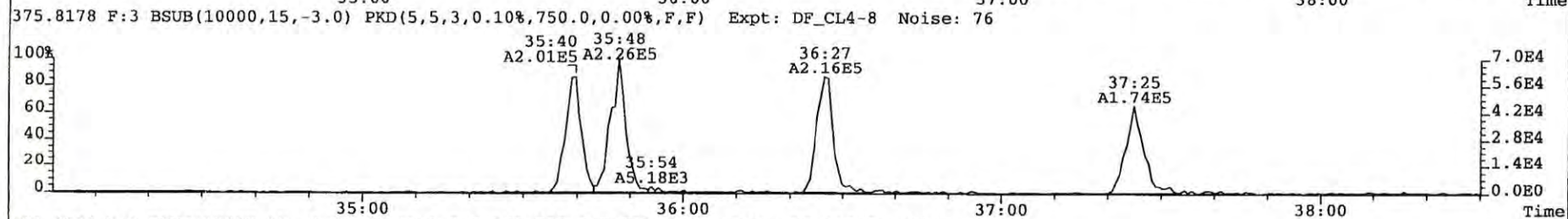
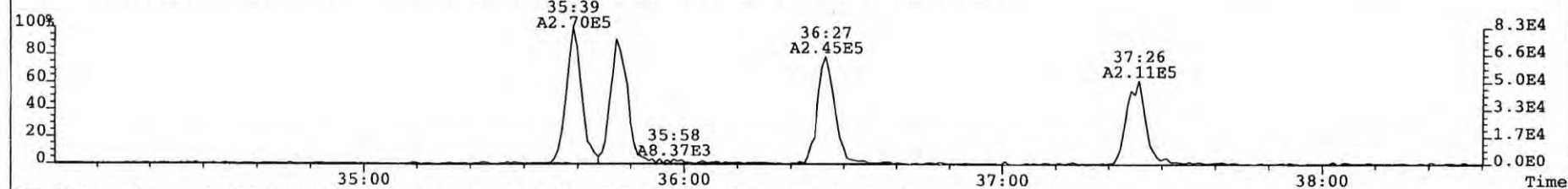
375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 88



File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5  
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 78

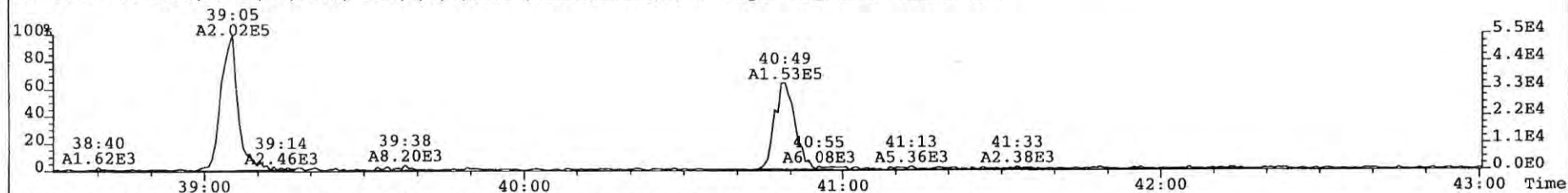


File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5  
373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 88

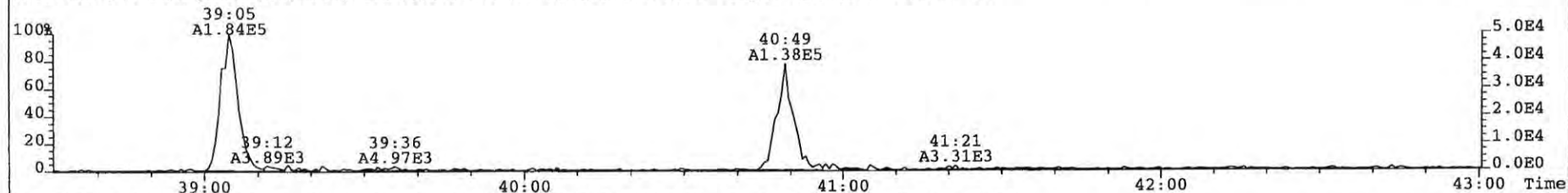




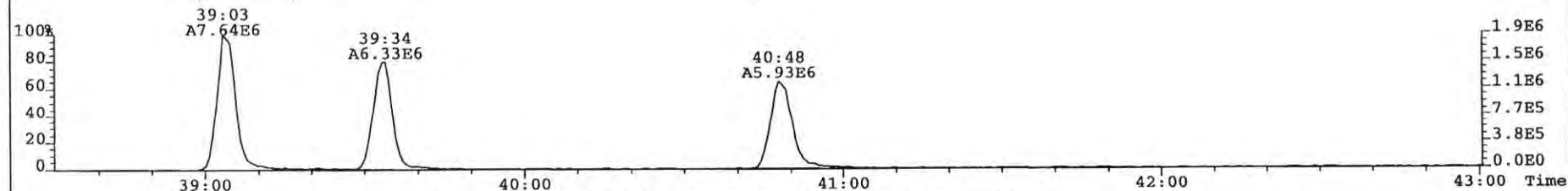
File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5  
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 161



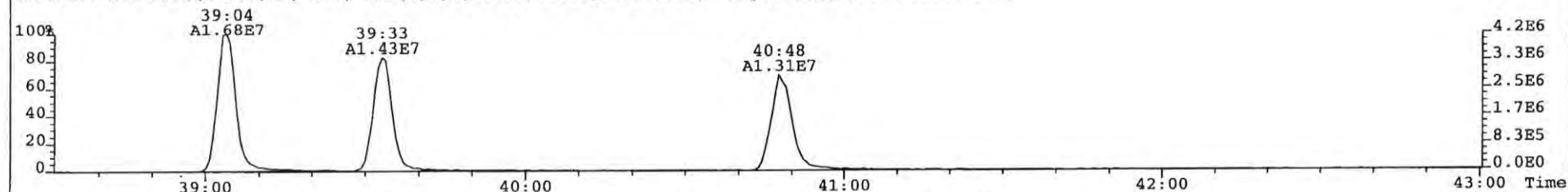
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 95



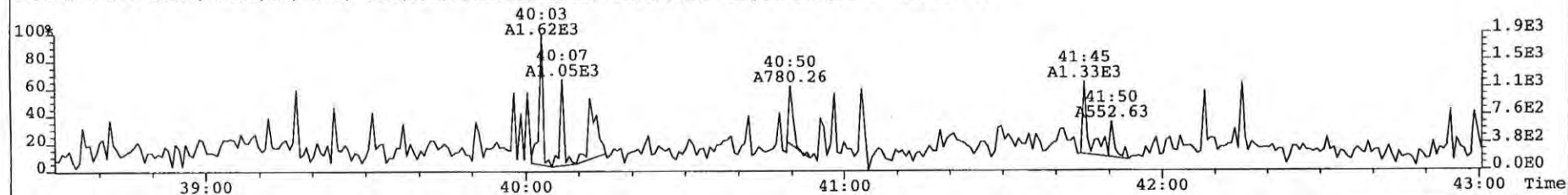
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 1304



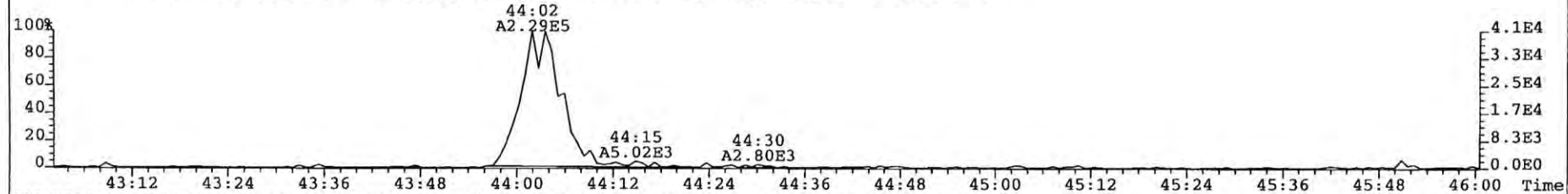
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 1876



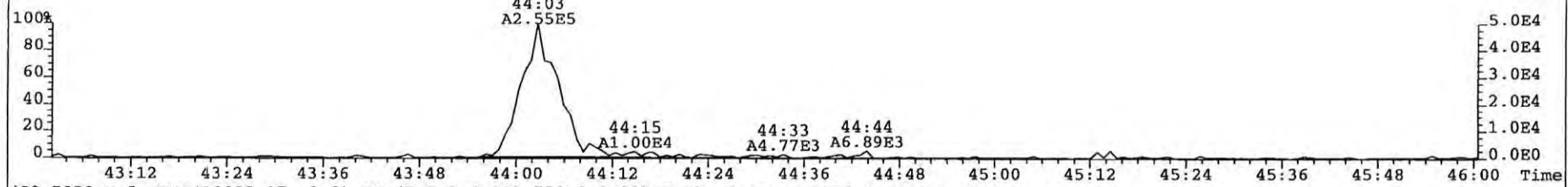
479.7165 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 93



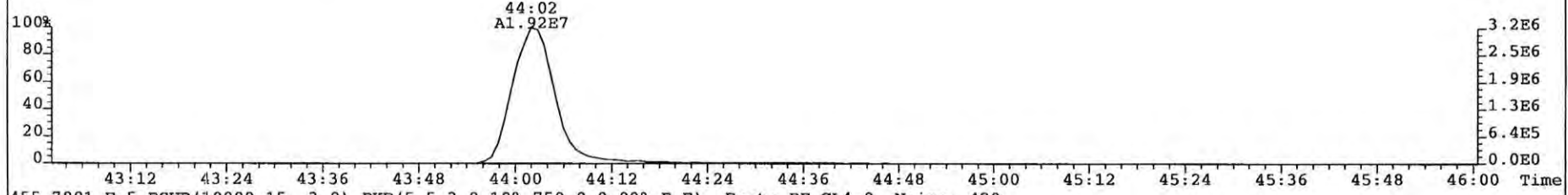
File: 081225P1 Acq: 25-DEC-2008 10:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 1 Text: SIL7-26-3 NEW ICAL CS0 Vial# 16 File Text: AP DB5  
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 75



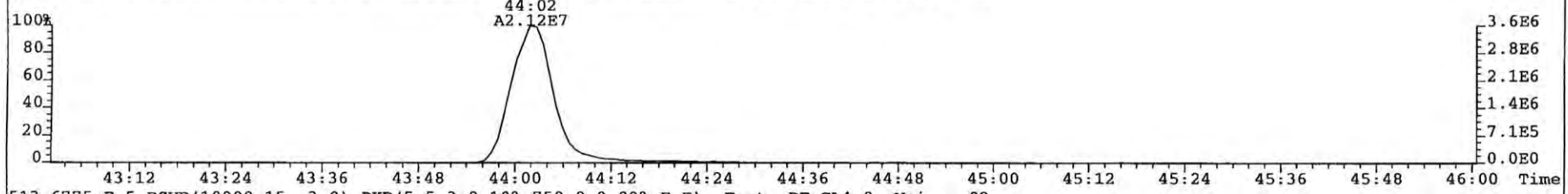
443.7398 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 67



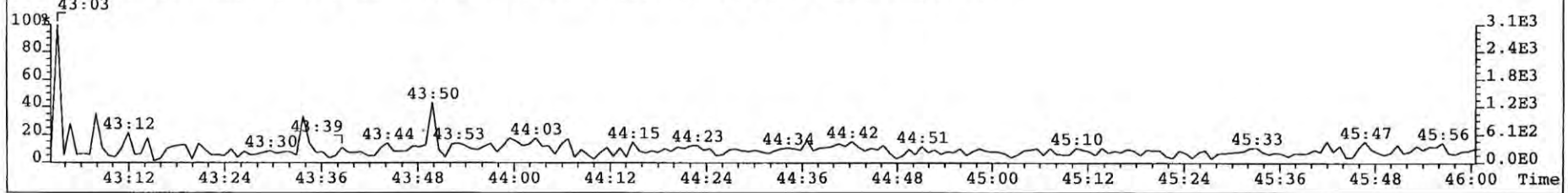
453.7830 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 246



455.7801 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 420



513.6775 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 82



TM 30 Dec 08

Calibration Summary

Analytical Perspectives

[Form: CAL]

Client ID: NEW ICAL CS1 ✓  
 Lab ID: SIL7-26-2  
 Sample text: SIL7-26-2 NEW ICAL CS1

Filename: 081225P1 S: 2 Acq: 25-DEC-08 11:02:27  
 GC Column ID: db-5 ICal: MM1\_DF\_07012007A\_25DEC08 Wt/Vol: 1.000  
 Vial: 17

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Ax 2,3,7,8-TCDD	0.50	1.83e+05	0.88 y	27:06	-	1.00
2	Ax 1,2,3,7,8-PeCDD	2.50	6.90e+05	1.55 y	32:41	-	0.94
3	Ax 1,2,3,4,7,8-HxCDD	2.50	6.09e+05	1.22 y	36:38	-	1.06
4	Ax 1,2,3,6,7,8-HxCDD	2.50	5.43e+05	1.32 y	36:45	-	0.84
5	Ax 1,2,3,7,8,9-HxCDD	2.50	5.73e+05	1.26 y	37:03	-	0.89
6	Ax 1,2,3,4,6,7,8-HpCDD	2.50	4.74e+05	1.06 y	40:15	-	0.94
7	Ax OCDD	5.00	6.22e+05	0.82 y	43:49	-	1.00
8	Ax2 OCDD-a	5.00	*	* n	NotF>	-	*
9	Ax 2,3,7,8-TCDF	0.50	2.95e+05	0.78 y	26:09	-	1.03
10	Ax 1,2,3,7,8-PeCDF	2.50	1.13e+06	1.57 y	31:11	-	0.96
11	Ax 2,3,4,7,8-PeCDF	2.50	1.21e+06	1.57 y	32:19	-	0.97
12	Ax 1,2,3,4,7,8-HxCDF	2.50	8.96e+05	1.22 y	35:40	-	1.14
13	Ax 1,2,3,6,7,8-HxCDF	2.50	1.01e+06	1.36 y	35:48	-	1.09
14	Ax 2,3,4,6,7,8-HxCDF	2.50	9.19e+05	1.29 y	36:27	-	1.09
15	Ax 1,2,3,7,8,9-HxCDF	2.50	7.42e+05	1.35 y	37:25	-	1.06
16	Ax 1,2,3,4,6,7,8-HpCDF	2.50	7.99e+05	1.05 y	39:05	-	1.36
17	Ax 1,2,3,4,7,8,9-HpCDF	2.50	5.60e+05	0.99 y	40:49	-	1.22
18	Ax OCDF	5.00	8.65e+05	0.84 y	44:03	-	0.91
19	Ax2 OCDF-a	5.00	*	* n	NotF>	-	*
20	ES 13C-2,3,7,8-TCDD	100.00	3.65e+07	0.82 y	27:04	-	0.96
21	ES 13C-1,2,3,7,8-PeCDD	100.00	2.95e+07	1.66 y	32:40	-	0.77
22	ES 13C-1,2,3,4,7,8-HxCDD	100.00	2.29e+07	1.26 y	36:37	-	1.02
23	ES 13C-1,2,3,6,7,8-HxCDD	100.00	2.58e+07	1.29 y	36:44	-	1.15
24	ES 13C-1,2,3,7,8,9-HxCDD	100.00	2.57e+07	1.32 y	37:02	-	1.14
25	ES 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.02e+07	1.05 y	40:14	-	0.90
26	ES 13C-OCDD	200.00	2.49e+07	0.86 y	43:49	-	0.55
27	ES 13C-2,3,7,8-TCDF	100.00	5.71e+07	0.78 y	26:08	-	0.93
28	ES 13C-1,2,3,7,8-PeCDF	100.00	4.70e+07	1.58 y	31:10	-	0.77
29	ES 13C-2,3,4,7,8-PeCDF	100.00	4.95e+07	1.60 y	32:18	-	0.81
30	ES 13C-1,2,3,4,7,8-HxCDF	100.00	3.15e+07	0.53 y	35:39	-	1.40
31	ES 13C-1,2,3,6,7,8-HxCDF	100.00	3.72e+07	0.53 y	35:47	-	1.65
32	ES 13C-2,3,4,6,7,8-HxCDF	100.00	3.36e+07	0.53 y	36:26	-	1.49
33	ES 13C-1,2,3,7,8,9-HxCDF	100.00	2.81e+07	0.52 y	37:25	-	1.25
34	ES 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.35e+07	0.46 y	39:04	-	1.04
35	ES 13C-1,2,3,4,7,8,9-HpCDF	100.00	1.84e+07	0.45 y	40:49	-	0.82
36	ES 13C-OCDF	200.00	3.80e+07	0.90 y	44:03	-	0.84
37	CS 37Cl-2,3,7,8-TCDD	0.50	1.87e+05		27:06	-	0.98
38	CS 13C-1,2,3,4,7-PeCDD	100.00	2.91e+07	1.68 y	32:10	-	0.76
39	CS 13C-1,2,3,4,6-PeCDF	100.00	4.72e+07	1.59 y	30:38	-	0.77
40	CS 13C-1,2,3,4,6,9-HxCDF	100.00	3.19e+07	0.53 y	36:06	-	1.42
41	CS 13C-1,2,3,4,6,8,9-HpCDF	100.00	2.00e+07	0.46 y	39:34	-	0.89
42	NA n/a	100.00	*	* n	NotF>	-	*
43	JS/RT 13C-1,2,3,4-TCDD	100.00	3.81e+07	0.83 y	26:24	3.81e+05	-
44	JS 13C-1,2,3,4-TCDF	100.00	6.14e+07	0.78 y	24:43	6.14e+05	-
45	JS/RT 13C-1,2,3,4,6,7-HxCDD	50.00	1.13e+07	1.18 y	36:56	2.25e+05	-

0.50 pg/ml

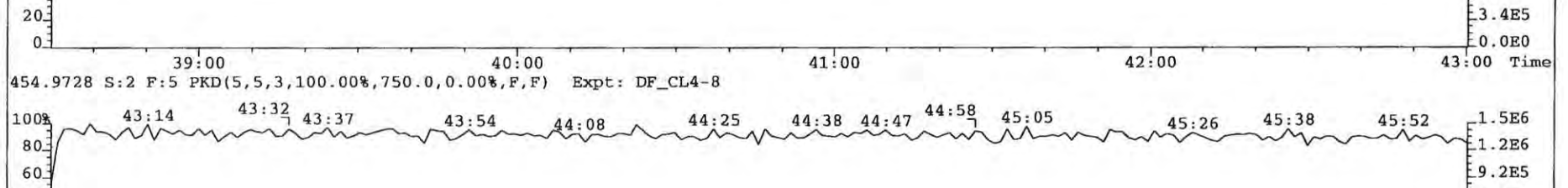
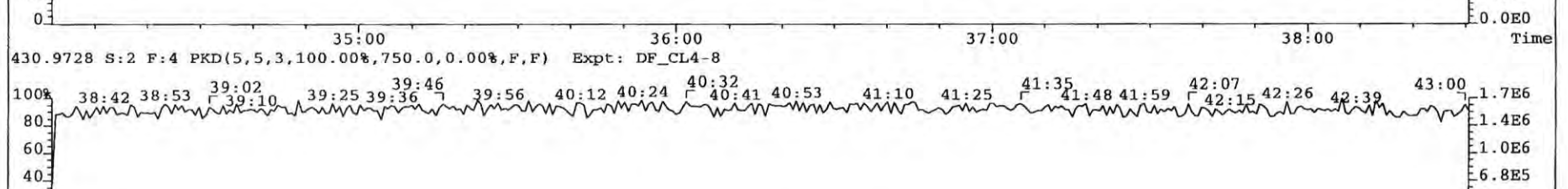
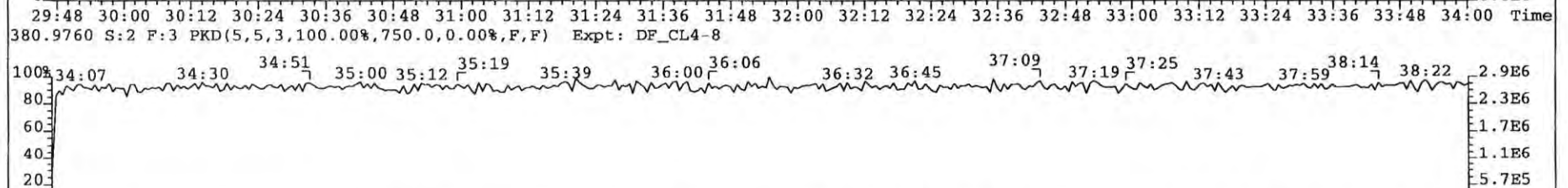
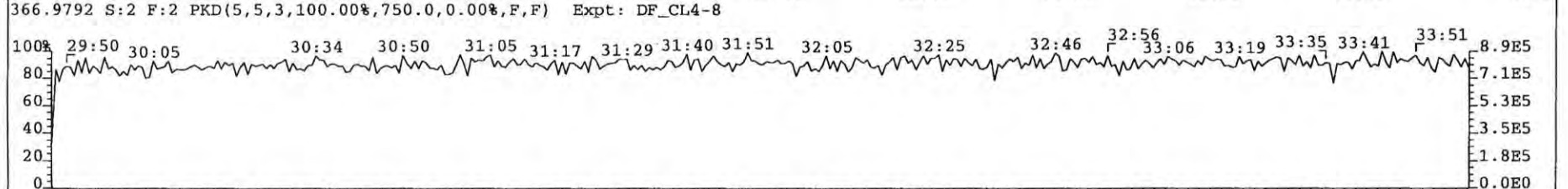
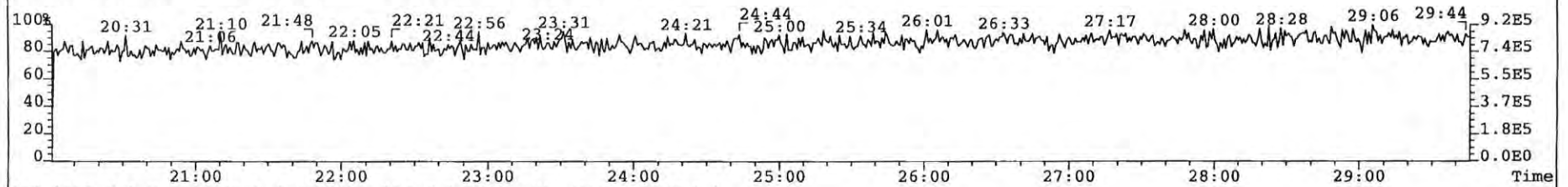
calc.

Analyst: *[Signature]*  
 Date: 25/12/08

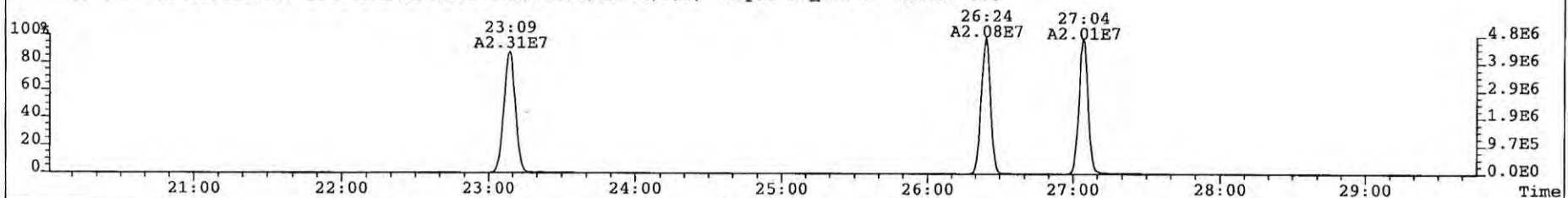
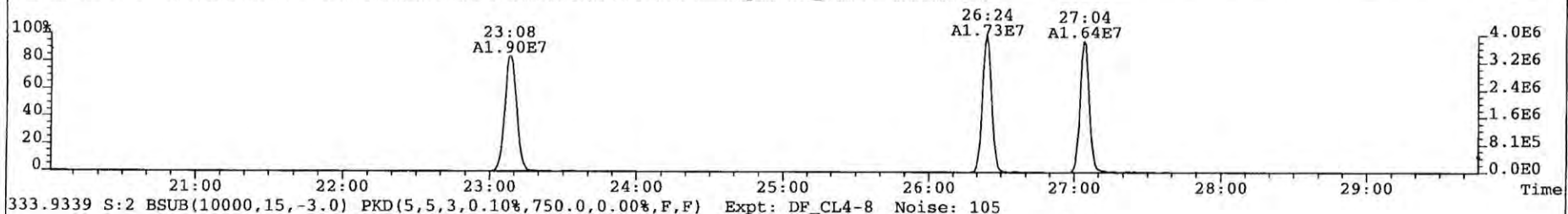
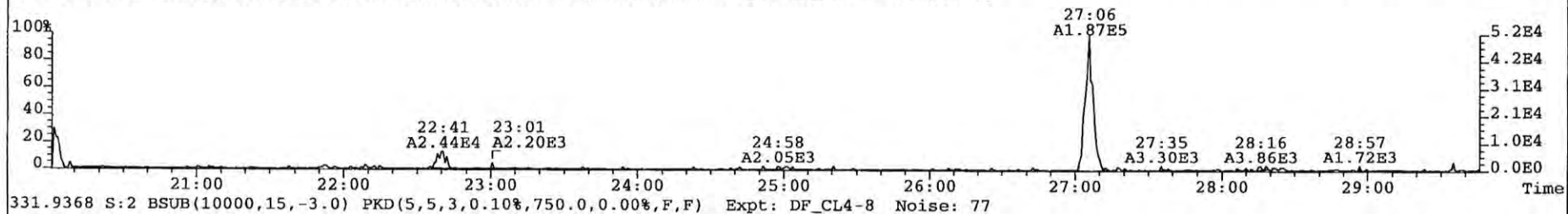
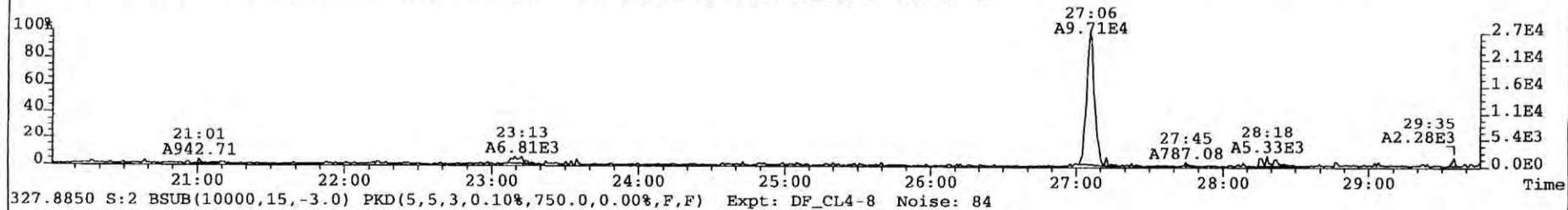
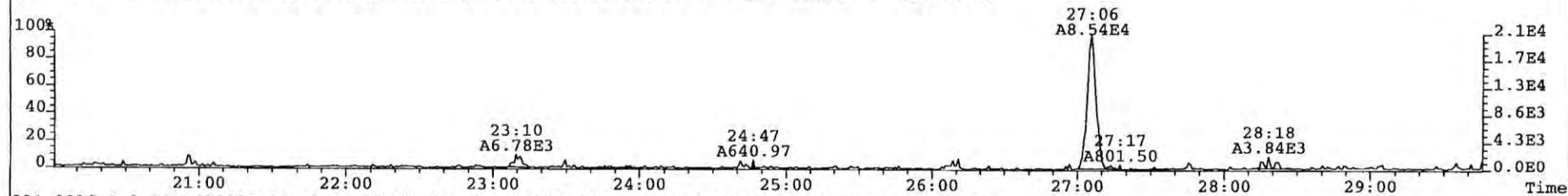


46	SS	37Cl-2,3,7,8-TCDD	0.50	1.87e+05		27:06	-	1.02 ✓
47	SS	13C-1,2,3,4,7-PeCDD	100.00	2.91e+07	1.68 y	32:10	-	0.99
48	SS	13C-1,2,3,4,6-PeCDF	100.00	4.72e+07	1.59 y	30:38	-	1.00
49	SS	13C-1,2,3,4,6,9-HxCDF	100.00	3.19e+07	0.53 y	36:06	-	0.86
50	SS	13C-1,2,3,4,6,8,9-HpCDF	100.00	2.00e+07	0.46 y	39:34	-	0.85 ✓
51	SBS	2,4,6,8-TCDF	-	-	- n	-	-	1.03 •
52	Ay	1,3,6,8-TCDD	-	-	- n	-	-	1.00 ✓
53	Ay	1,2,3,9-TCDD	-	-	- n	-	-	1.00
54	Ay	1,2,8,9-TCDD	-	-	- n	-	-	1.00
55	Ay	1,2,4,7,9-PeCDD	-	-	- n	-	-	0.94
56	Ay	1,2,3,8,9-PeCDD	-	-	- n	-	-	0.94
57	Ay	1,2,4,6,7,9-HxCDD	-	-	- n	-	-	0.93
58	Ay	1,2,3,4,6,7,9-HpCDD	-	-	- n	-	-	0.94 ✓
59	Ay	1,3,6,8-TCDF	-	-	- n	-	-	1.03
60	Ay	2,3,4,8-TCDF	-	-	- n	-	-	1.03
61	Ay	1,2,8,9-TCDF	-	-	- n	-	-	1.03
62	Ay	1,3,4,6,8-PeCDF	-	-	- n	-	-	1.03
63	Ay	1,2,3,8,9-PeCDF	-	-	- n	-	-	0.97
64	Ay	1,2,3,4,6,8-HxCDF	-	-	- n	-	-	1.09 ✓
65	Tot	Total Tetra-Dioxins	-	-	- n	-	-	1.00
66	Tot	Total Penta-Dioxins	-	-	- n	-	-	0.94
67	Tot	Total Hexa-Dioxins	-	-	- n	-	-	0.93
68	Tot	Total Hepta-Dioxins	-	-	- n	-	-	0.94
69	Tot	Total Tetra-Furans	-	-	- n	-	-	1.03
70	Tot	Total Penta-Furans	-	-	- n	-	-	0.97
71	Tot	Total Hexa-Furans	-	-	- n	-	-	1.09
72	Tot	Total Hepta-Furans	-	-	- n	-	-	1.30
73	Tot	TCDD EMPC	-	-	- n	-	-	1.00
74	Tot	PeCDD EMPC	-	-	- n	-	-	0.94
75	Tot	HxCDD EMPC	-	-	- n	-	-	0.93
76	Tot	HpCDD EMPC	-	-	- n	-	-	0.94
77	Tot	TCDF EMPC	-	-	- n	-	-	1.03
78	Tot	PeCDF EMPC	-	-	- n	-	-	0.97
79	Tot	HxCDF EMPC	-	-	- n	-	-	1.09
80	Tot	HpCDF EMPC	-	-	- n	-	-	1.30
81	AS	13C-1,3,6,8-TCDD	100.00	4.21e+07	0.82 y	23:09	-	1.10 ✓
82	AS	13C-1,3,6,8-TCDF	100.00	6.72e+07	0.78 y	20:57	-	1.10 ✓
83	DPE	HxCDPE	-	1.47e+04		24:40	-	-
84	DPE	HpCDPE	-	1.68e+04		31:36	-	-
85	DPE	OCDPE	-	1.68e+04		34:37	-	-
86	DPE	NCDPE	-	*		NotF>	-	-
87	DPE	DCDPE	-	*		NotF>	-	-
88	LMC	Fn1 check mass	-	*		NotF>	-	-
89	LMC	Fn2 check mass	-	*		NotF>	-	-
90	LMC	Fn3 check mass	-	*		NotF>	-	-
91	LMC	Fn4 check mass	-	*		NotF>	-	-
92	LMC	Fn5 check mass	-	*		NotF>	-	-

File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5  
316.9824 S:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5  
319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 81

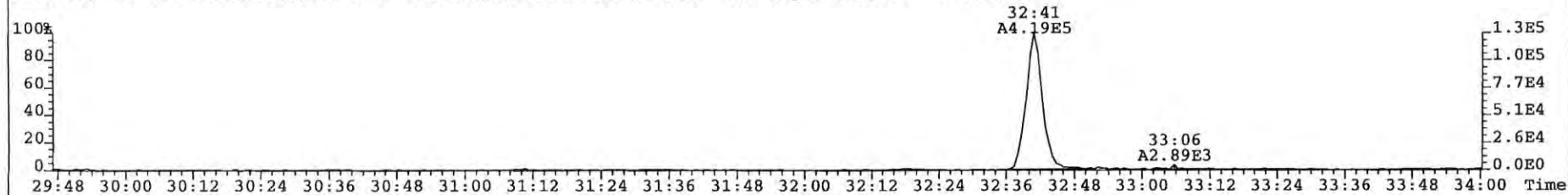




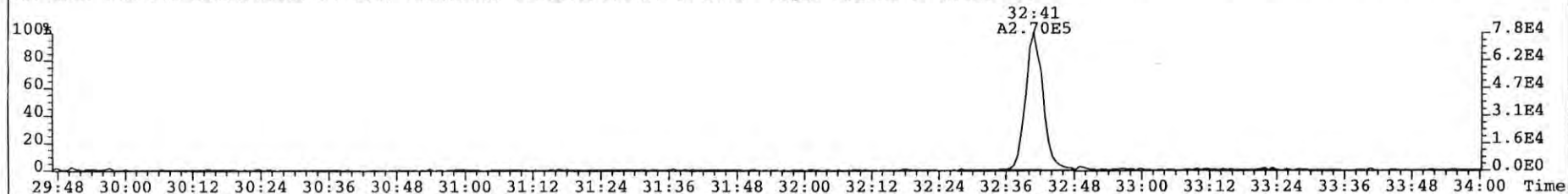
File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5

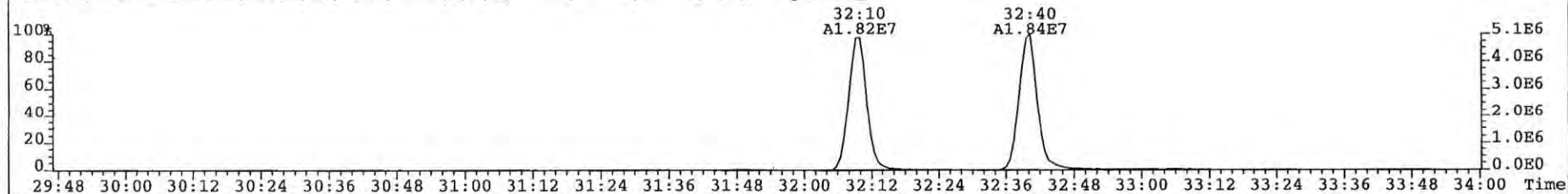
355.8546 S:2 F:2 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 87



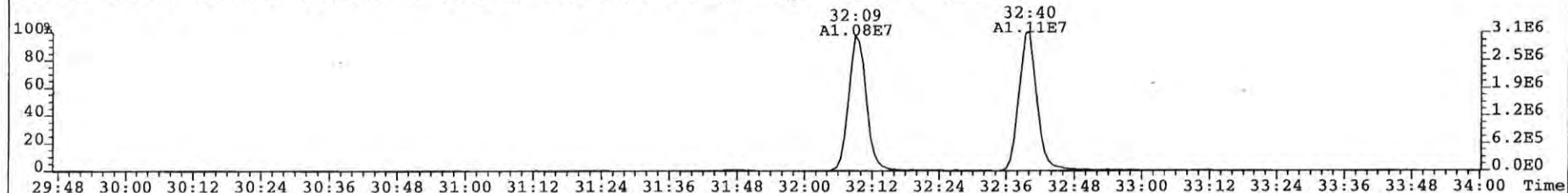
357.8517 S:2 F:2 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 83



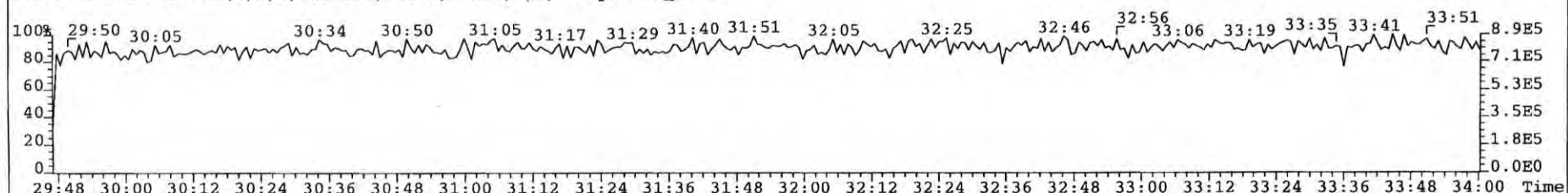
367.8949 S:2 F:2 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 107



369.8919 S:2 F:2 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 357



366.9792 S:2 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

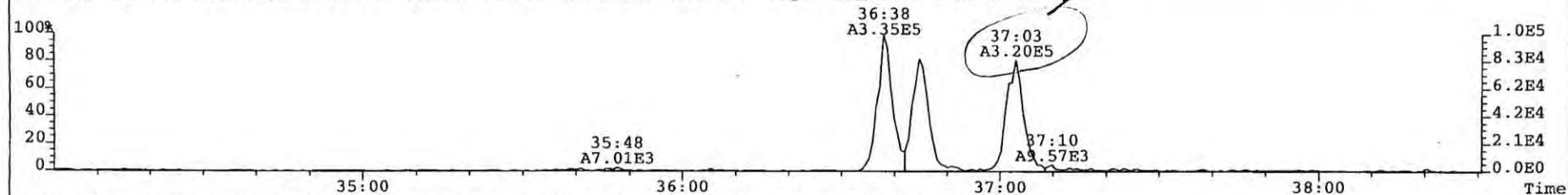


EE 7m 30 Dec 08  
RRF

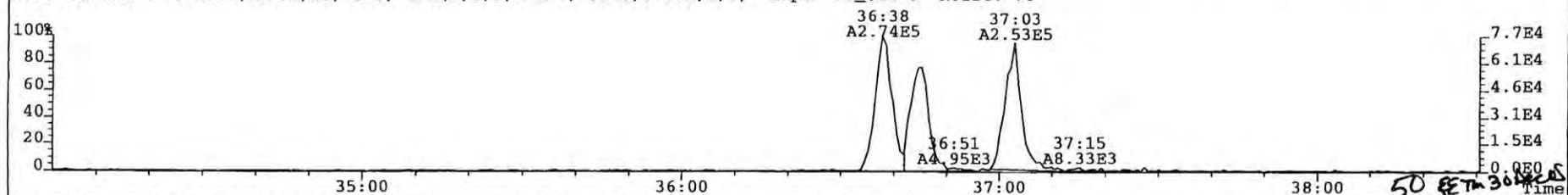
File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5

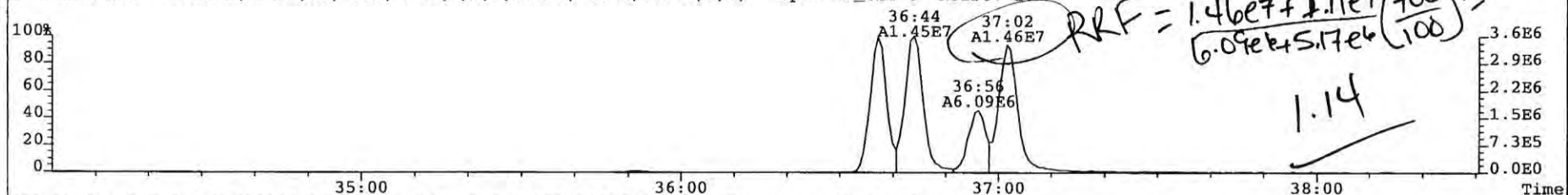
389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 72



391.8127 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 78

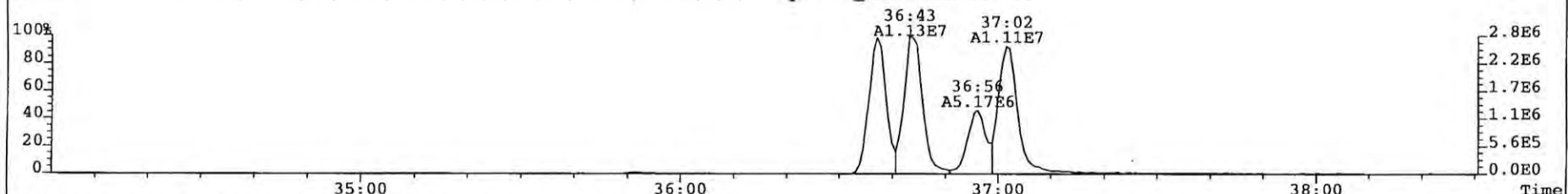


401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 104

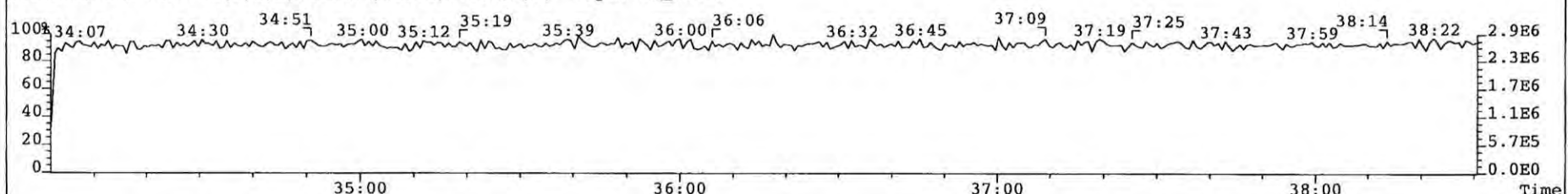


RRF =  $\frac{1.46e7 + 1.11e7}{6.09e6 + 5.17e6} \times \frac{100}{100} = 1.14$

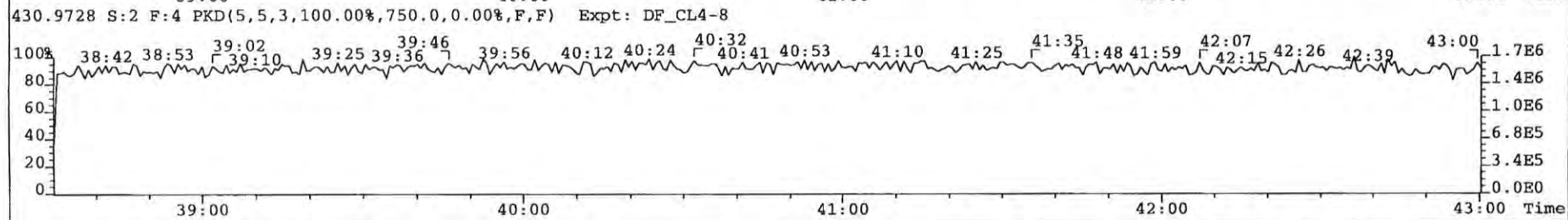
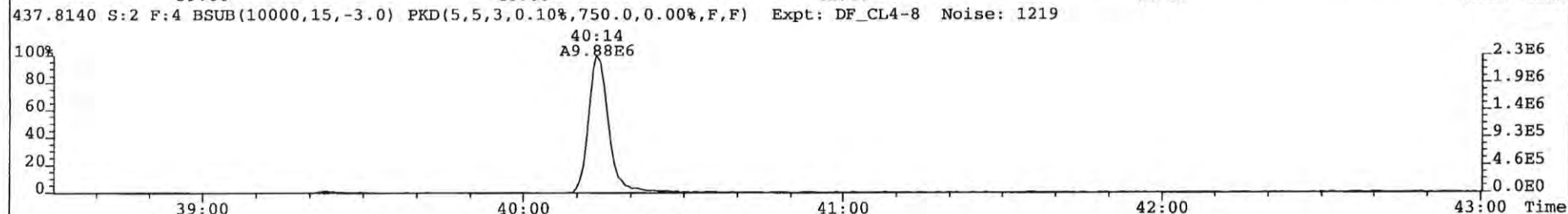
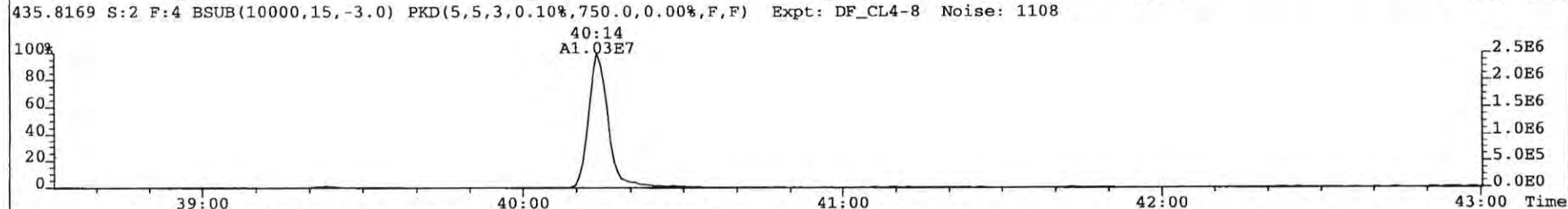
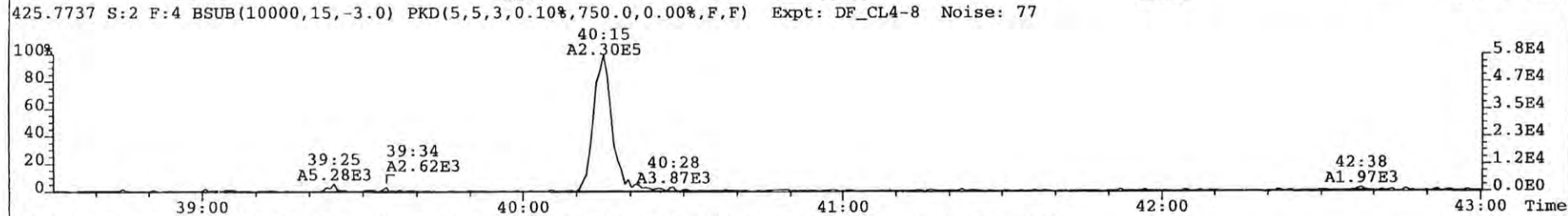
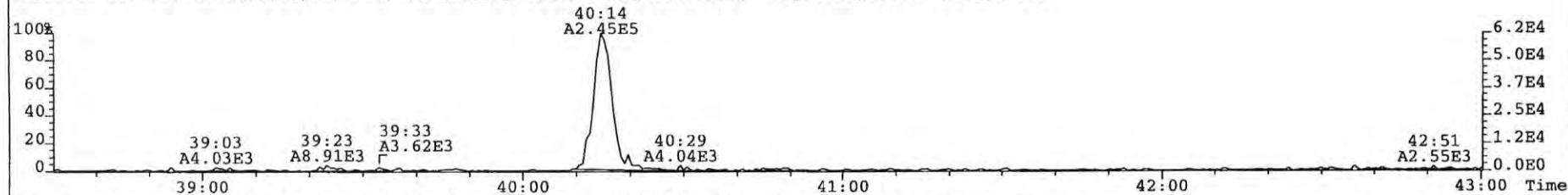
403.8530 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 85



380.9760 S:2 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

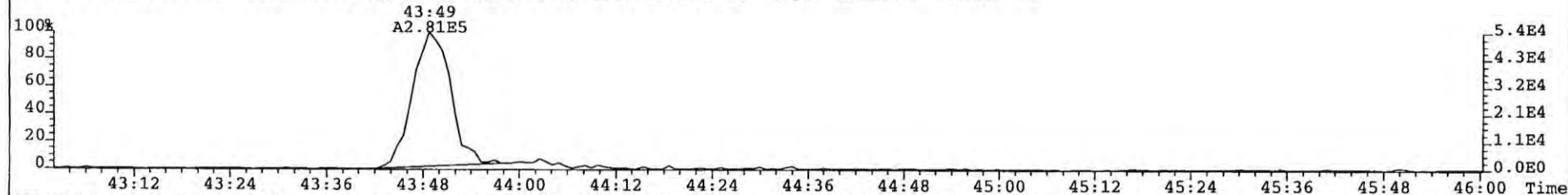


File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5  
423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 108

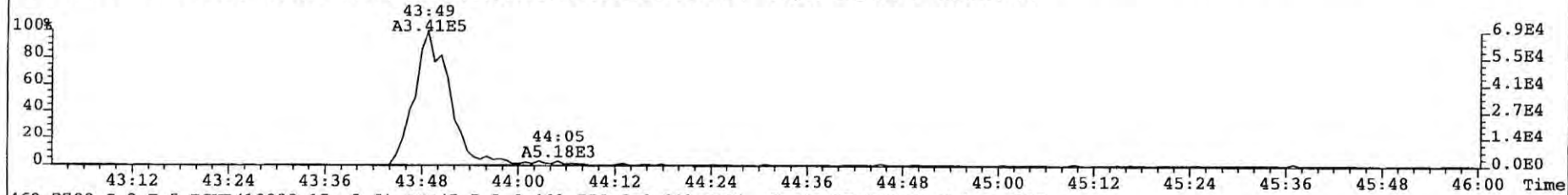




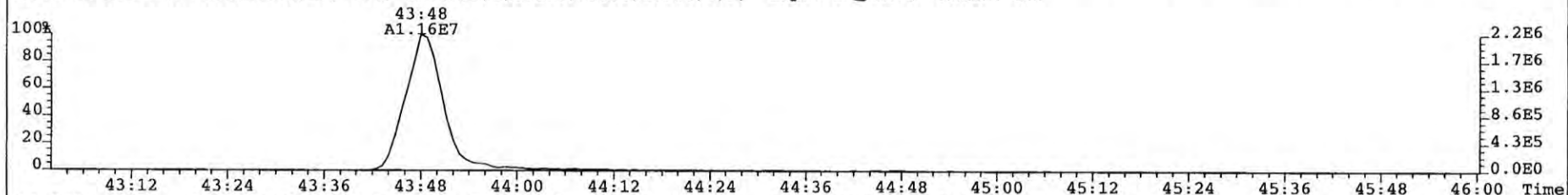
File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5  
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 72



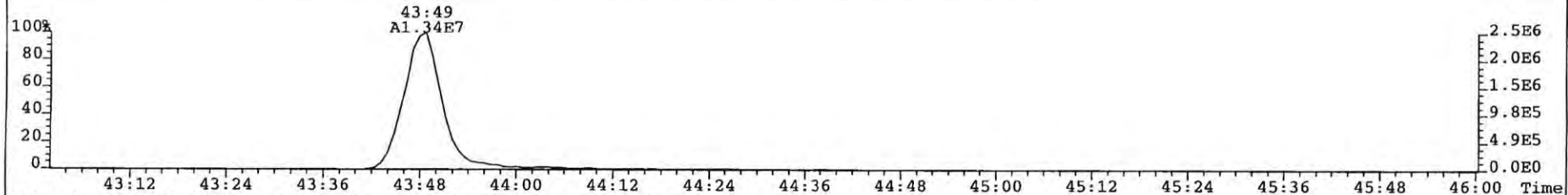
459.7348 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 73



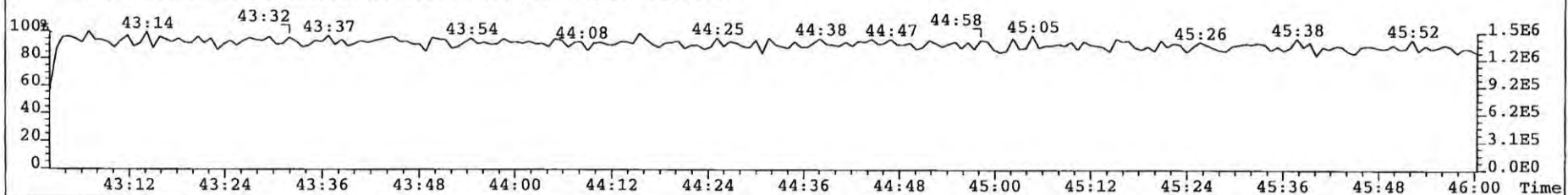
469.7780 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 217



471.7750 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 309



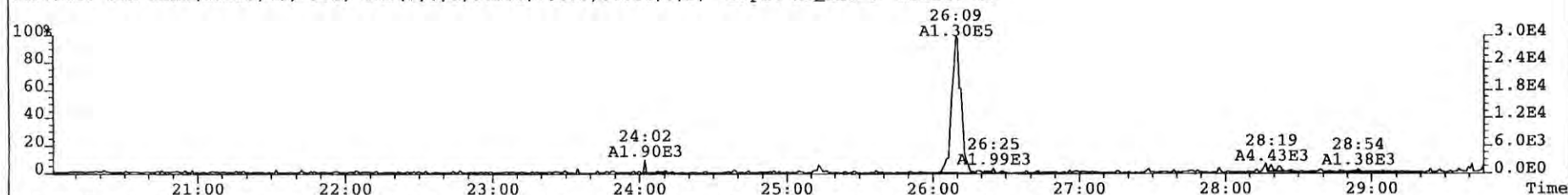
454.9728 S:2 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



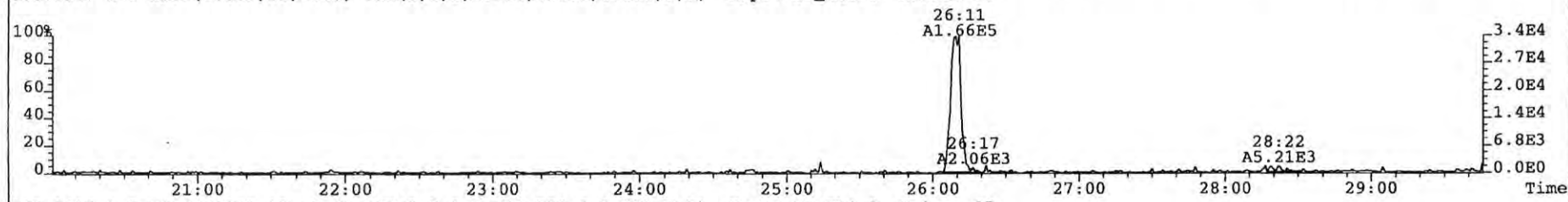
File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5

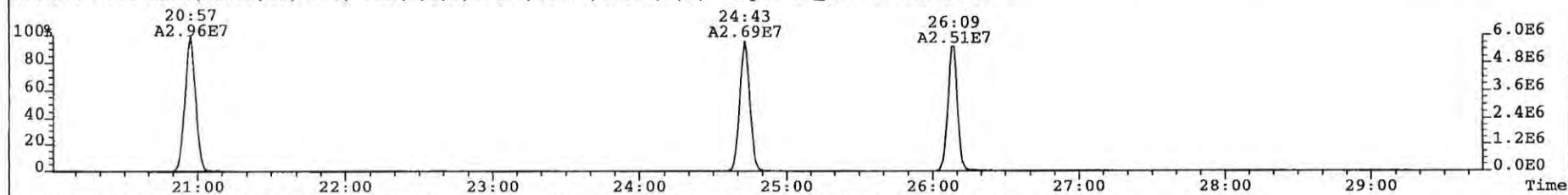
303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 82



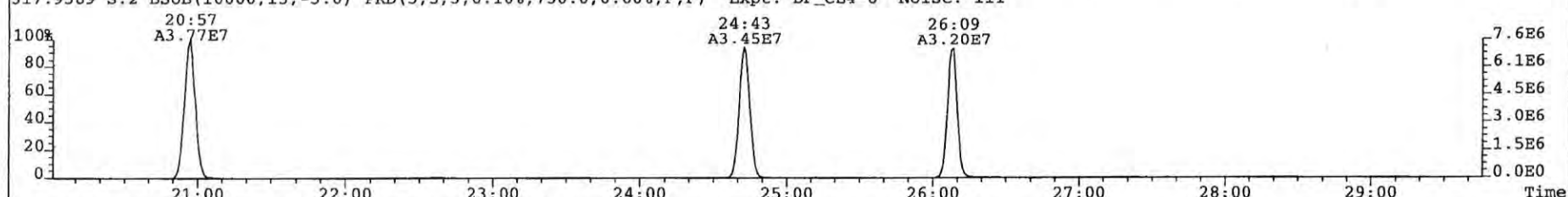
305.8987 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 86



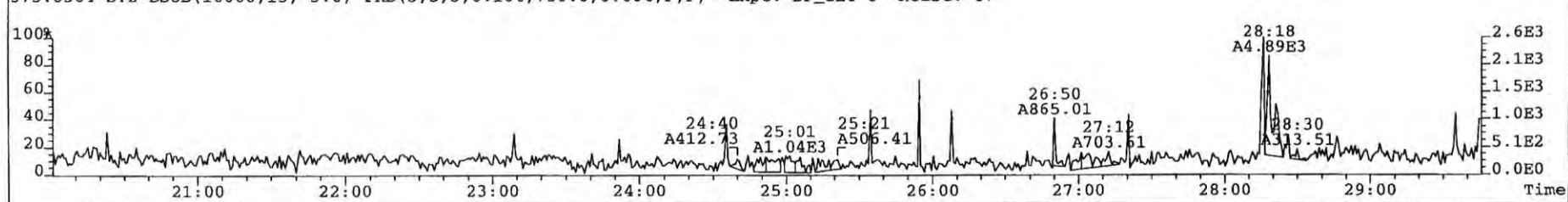
315.9419 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 97



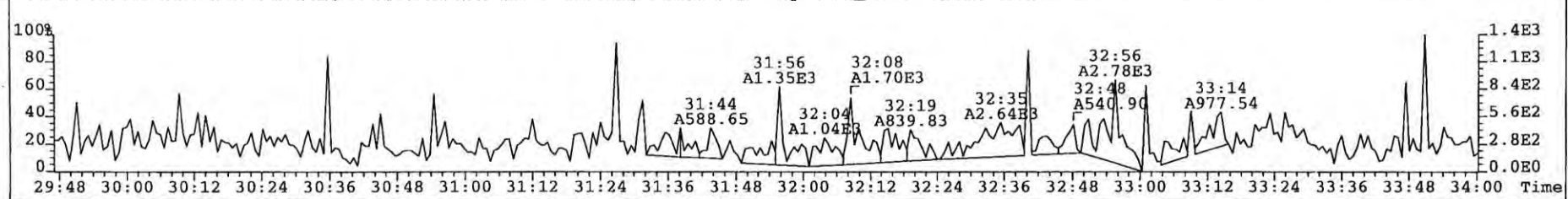
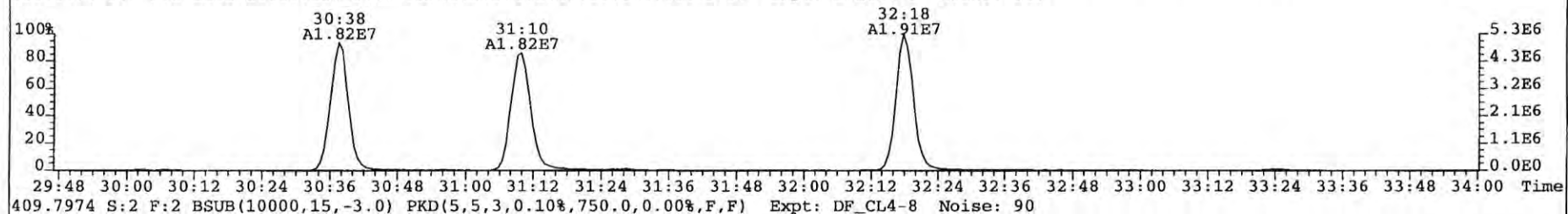
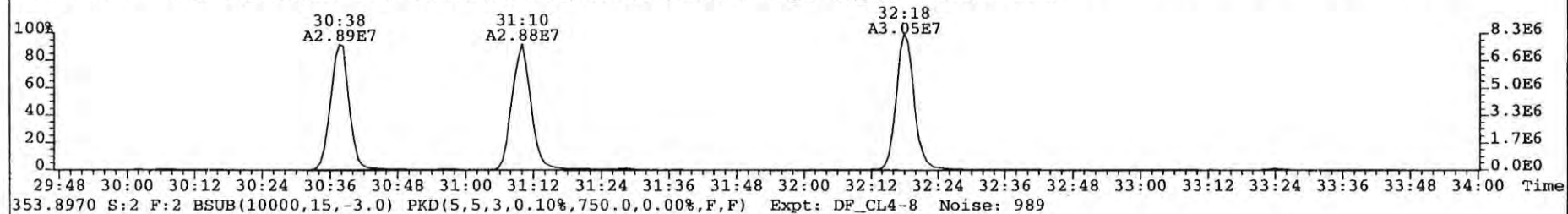
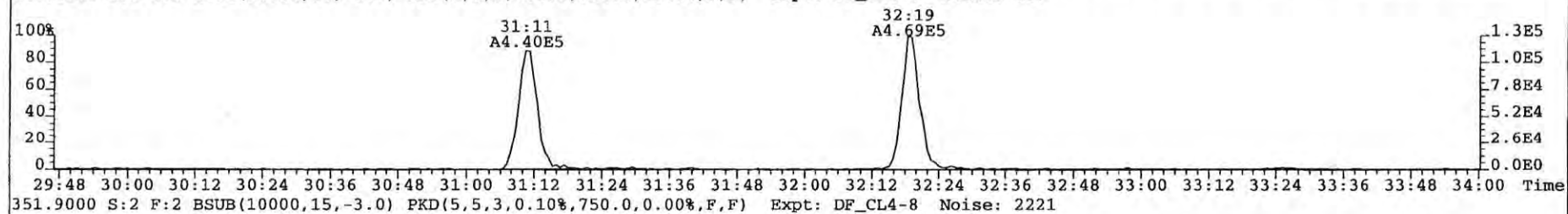
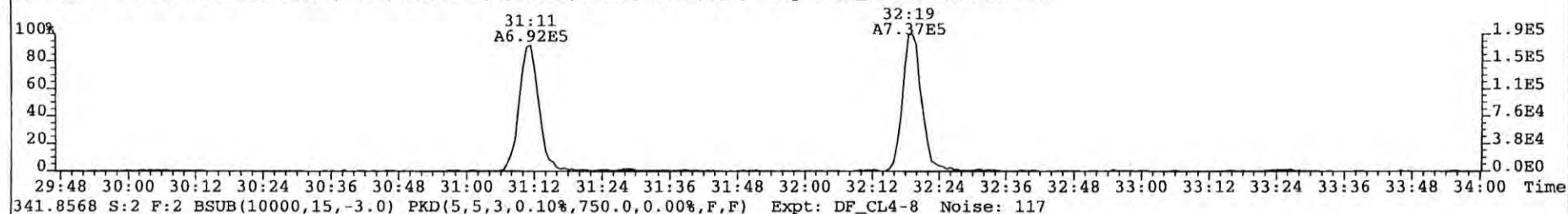
317.9389 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 111



375.8364 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 87

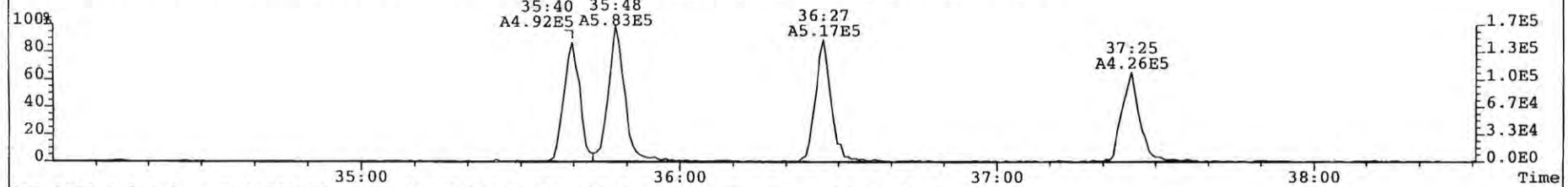


File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5  
339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 101

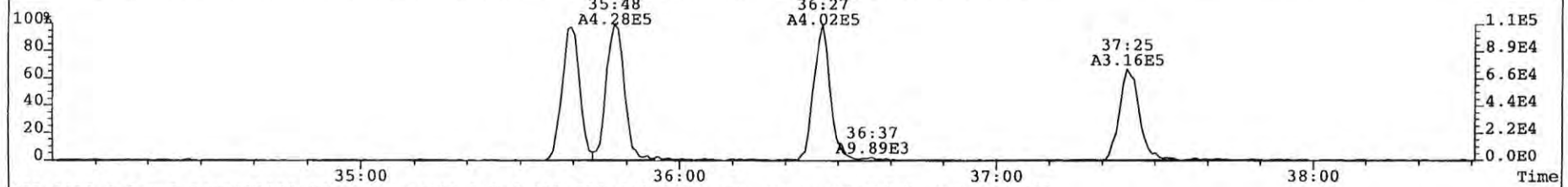




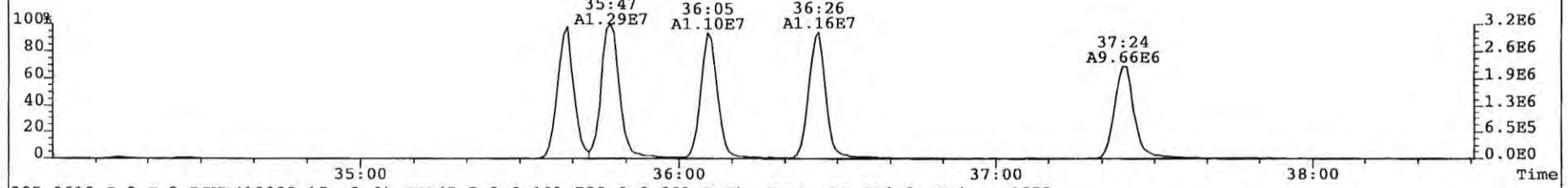
File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5  
373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 187



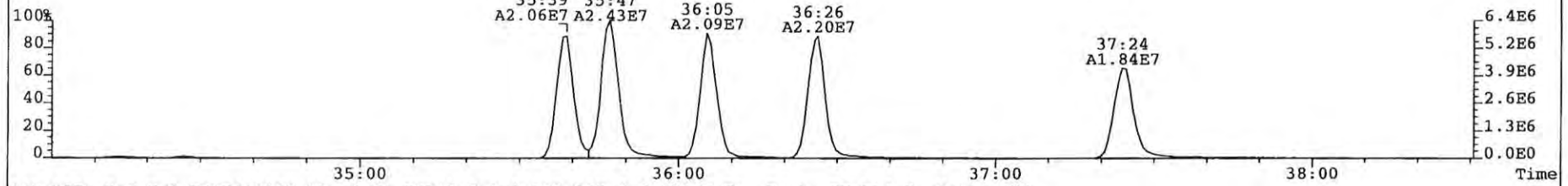
375.8178 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 95



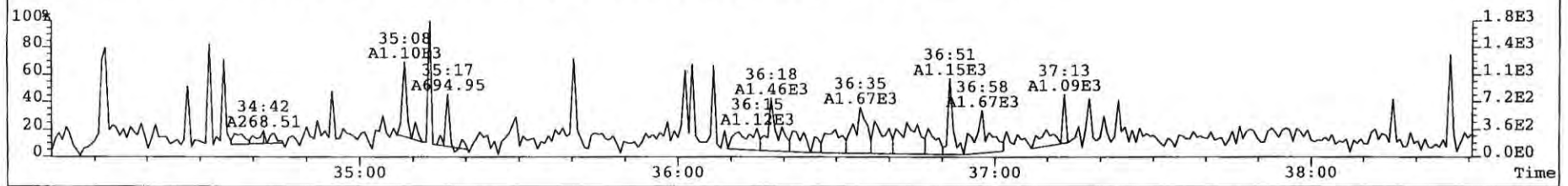
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 1263



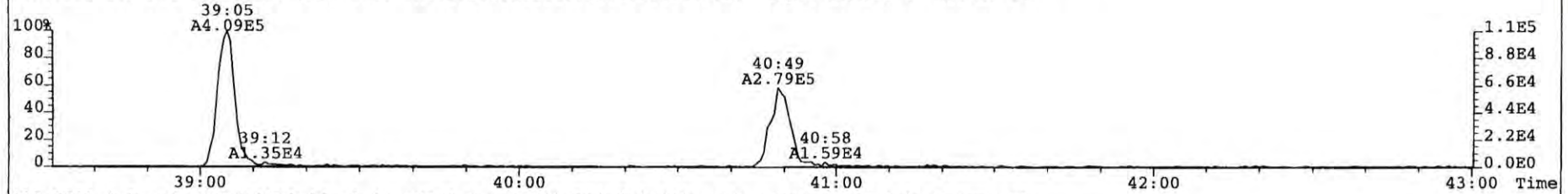
385.8610 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 1873



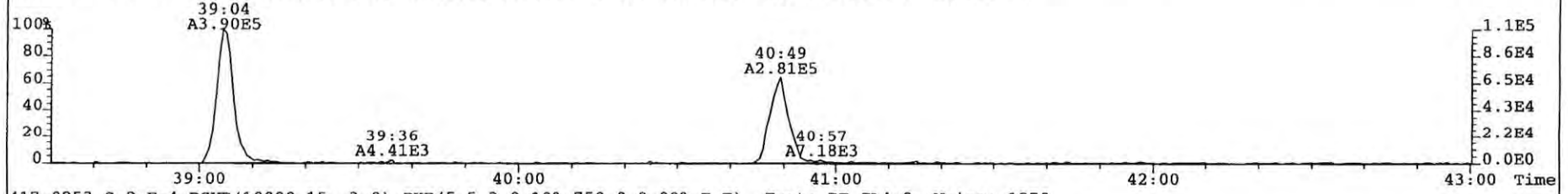
445.7555 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 82



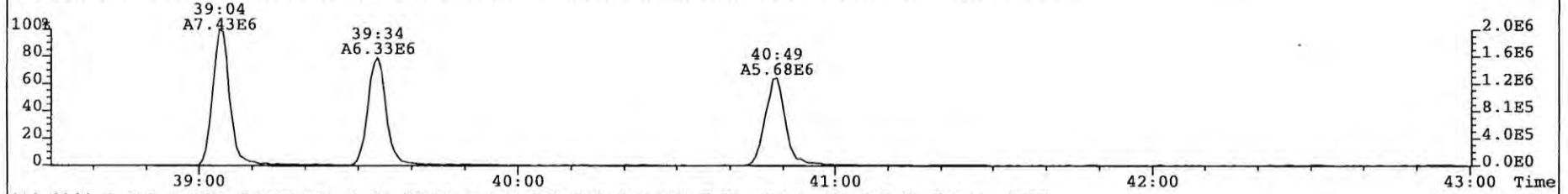
File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5  
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 127



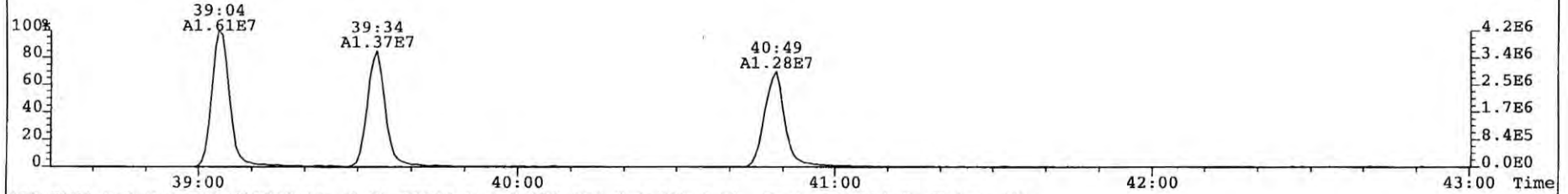
409.7788 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 73



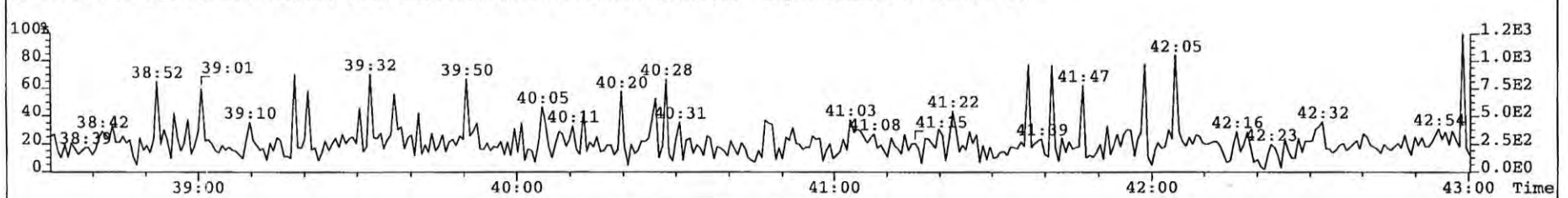
417.8253 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 1270



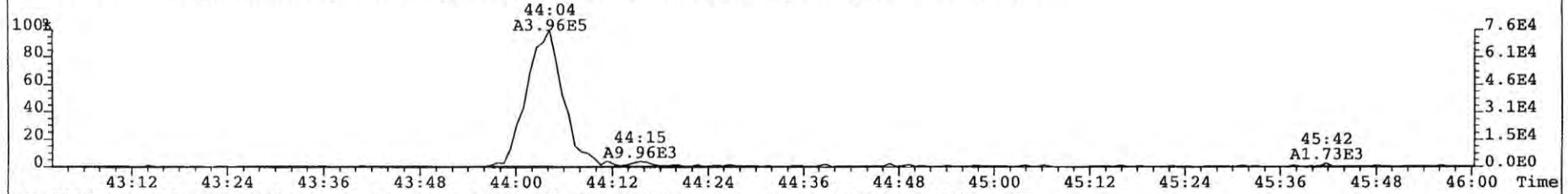
419.8220 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 1762



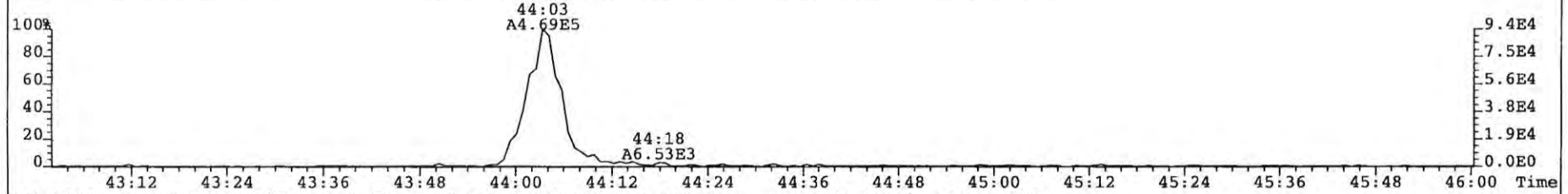
479.7165 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 76



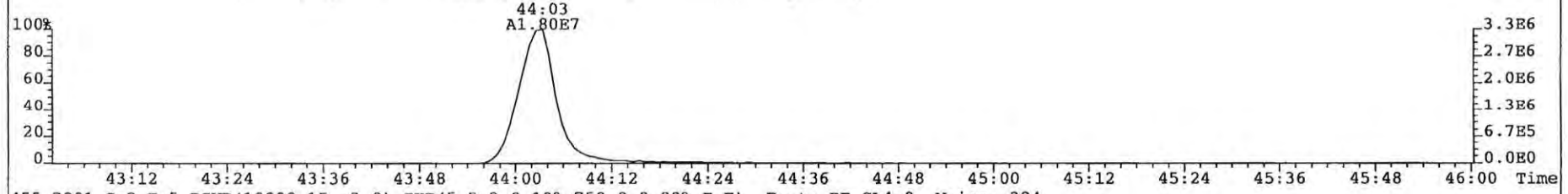
File: 081225P1 Acq: 25-DEC-2008 11:02:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: SIL7-26-2 NEW ICAL CS1 Vial# 17 File Text: AP DB5  
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 88



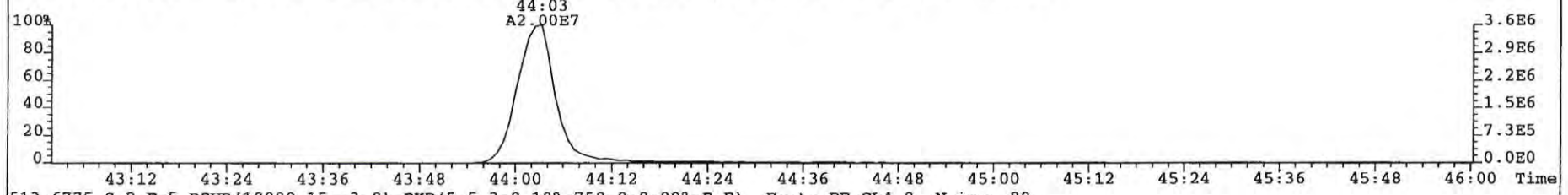
443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 77



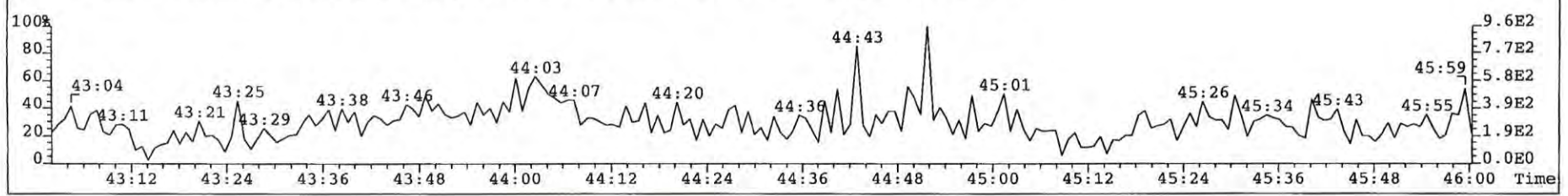
453.7830 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 450



455.7801 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 324



513.6775 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 89





*TM 30 Dec 08*

Calibration Summary

Analytical Perspectives

[Form: CAL]

Client ID: NEW ICAL CS2 ✓  
 Lab ID: SIL7-26-1  
 Sample text: SIL7-26-1 NEW ICAL CS2

Filename: 081225P1 S: 3 ✓ Acq: 25-DEC-08 11:52:35  
 GC Column ID: db-5 ICal: MM1\_DF\_07012007A\_25DEC08 Wt/Vol: 1.000  
 Vial: 18

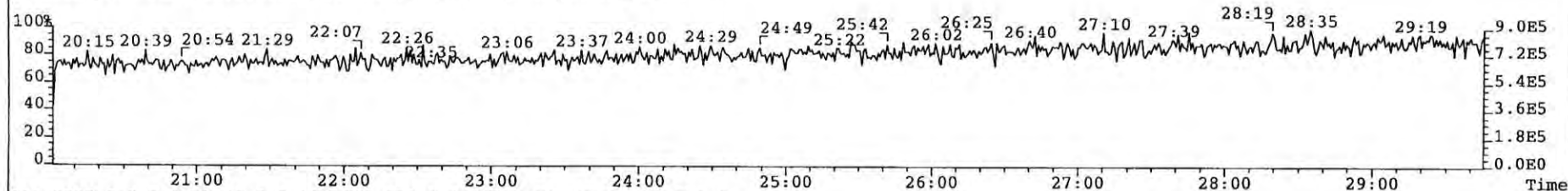
Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Ax	2,3,7,8-TCDD	2.00	6.34e+05	0.79 y	27:06	- 1.03 ✓
2	Ax	1,2,3,7,8-PeCDD	10.00	2.42e+06	1.62 y	32:41	- 0.96
3	Ax	1,2,3,4,7,8-HxCDD	10.00	2.18e+06	1.32 y	36:38	- 1.04
4	Ax	1,2,3,6,7,8-HxCDD	10.00	2.05e+06	1.25 y	36:45	- 0.93 ✓
5	Ax	1,2,3,7,8,9-HxCDD	10.00	2.19e+06	1.21 y	37:03	- 0.96
6	Ax	1,2,3,4,6,7,8-HpCDD	10.00	1.71e+06	1.07 y	40:15	- 0.92
7	Ax	OCDD	20.00	2.48e+06	0.91 y	43:50	- 1.03 ✓
8	Ax2	OCDD-a	20.00	*	* n	NotF>	- *
9	Ax	2,3,7,8-TCDF	2.00	9.40e+05	0.80 y	26:10	- 1.01 ✓
10	Ax	1,2,3,7,8-PeCDF	10.00	3.87e+06	1.57 y	31:11	- 0.94
11	Ax	2,3,4,7,8-PeCDF	10.00	4.19e+06	1.64 y	32:19	- 0.99 ✓ calc
12	Ax	1,2,3,4,7,8-HxCDF	10.00	3.30e+06	1.26 y	35:40	- 1.18
13	Ax	1,2,3,6,7,8-HxCDF	10.00	3.64e+06	1.24 y	35:48	- 1.12
14	Ax	2,3,4,6,7,8-HxCDF	10.00	3.36e+06	1.21 y	36:27	- 1.10 ✓
15	Ax	1,2,3,7,8,9-HxCDF	10.00	2.91e+06	1.30 y	37:26	- 1.08
16	Ax	1,2,3,4,6,7,8-HpCDF	10.00	2.89e+06	1.03 y	39:05	- 1.34
17	Ax	1,2,3,4,7,8,9-HpCDF	10.00	2.18e+06	1.08 y	40:50	- 1.28
18	Ax	OCDF	20.00	3.32e+06	0.92 y	44:04	- 0.89 ✓
19	Ax2	OCDF-a	20.00	*	* n	NotF>	- *
20	ES	13C-2,3,7,8-TCDD	100.00	3.07e+07	0.81 y	27:04	- 0.98 ✓
21	ES	13C-1,2,3,7,8-PeCDD	100.00	2.52e+07	1.64 y	32:40	- 0.80
22	ES	13C-1,2,3,4,7,8-HxCDD	100.00	2.08e+07	1.30 y	36:37	- 1.06
23	ES	13C-1,2,3,6,7,8-HxCDD	100.00	2.21e+07	1.27 y	36:44	- 1.13 ✓
24	ES	13C-1,2,3,7,8,9-HxCDD	100.00	2.28e+07	1.27 y	37:02	- 1.16
25	ES	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.85e+07	1.06 y	40:15	- 0.94
26	ES	13C-OCDD	200.00	2.41e+07	0.85 y	43:49	- 0.62 ✓
27	ES	13C-2,3,7,8-TCDF	100.00	4.65e+07	0.81 y	26:08	- 0.94 ✓
28	ES	13C-1,2,3,7,8-PeCDF	100.00	4.11e+07	1.59 y	31:10	- 0.83
29	ES	13C-2,3,4,7,8-PeCDF	100.00	4.22e+07	1.56 y	32:18	- 0.85
30	ES	13C-1,2,3,4,7,8-HxCDF	100.00	2.79e+07	0.54 y	35:38	- 1.42 ✓
31	ES	13C-1,2,3,6,7,8-HxCDF	100.00	3.24e+07	0.53 y	35:47	- 1.65
32	ES	13C-2,3,4,6,7,8-HxCDF	100.00	3.06e+07	0.54 y	36:26	- 1.56
33	ES	13C-1,2,3,7,8,9-HxCDF	100.00	2.68e+07	0.55 y	37:25	- 1.37 ✓
34	ES	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.17e+07	0.45 y	39:05	- 1.11
35	ES	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.70e+07	0.44 y	40:49	- 0.87
36	ES	13C-OCDF	200.00	3.72e+07	0.91 y	44:03	- 0.95 ✓
37	CS	37Cl-2,3,7,8-TCDD	2.00	5.88e+05		27:06	- 0.93 ✓
38	CS	13C-1,2,3,4,7-PeCDD	100.00	2.45e+07	1.68 y	32:09	- 0.78
39	CS	13C-1,2,3,4,6-PeCDF	100.00	3.99e+07	1.58 y	30:38	- 0.80 ✓
40	CS	13C-1,2,3,4,6,9-HxCDF	100.00	2.79e+07	0.54 y	36:06	- 1.43 ✓
41	CS	13C-1,2,3,4,6,8,9-HpCDF	100.00	1.86e+07	0.46 y	39:34	- 0.95 ✓
42	NA	n/a	100.00	*	* n	NotF>	- *
43	JS/RT	13C-1,2,3,4-TCDD	100.00	3.15e+07	0.81 y	26:24	3.15e+05 -
44	JS	13C-1,2,3,4-TCDF	100.00	4.96e+07	0.79 y	24:42	4.96e+05 -
45	JS/RT	13C-1,2,3,4,6,7-HxCDD	50.00	9.80e+06	1.31 y	36:56	1.96e+05 -

*2.0 pg/ml*

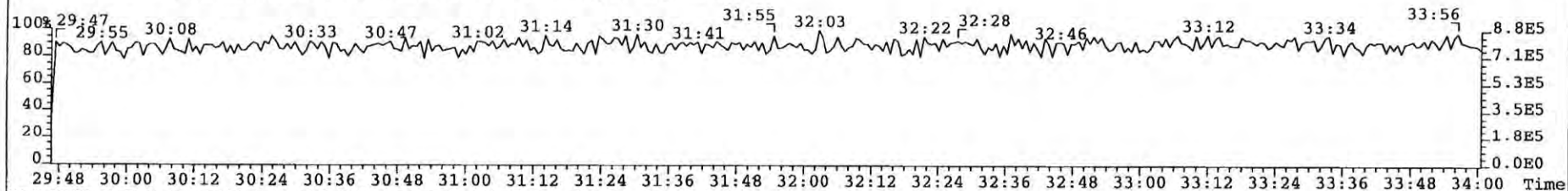
Analyst: *[Signature]*  
 Date: *25 Dec 08*

46	SS	37Cl-2,3,7,8-TCDD	2.00	5.88e+05		27:06	-	0.96 ✓
47	SS	13C-1,2,3,4,7-PeCDD	100.00	2.45e+07	1.68 y	32:09	-	0.97
48	SS	13C-1,2,3,4,6-PeCDF	100.00	3.99e+07	1.58 y	30:38	-	0.97 ✓
49	SS	13C-1,2,3,4,6,9-HxCDF	100.00	2.79e+07	0.54 y	36:06	-	0.86
50	SS	13C-1,2,3,4,6,8,9-HpCDF	100.00	1.86e+07	0.46 y	39:34	-	0.86 ✓
51	SBS	2,4,6,8-TCDF	-	-	- n	-	-	1.01 ✓
52	Ay	1,3,6,8-TCDD	-	-	- n	-	-	1.03 ✓
53	Ay	1,2,3,9-TCDD	-	-	- n	-	-	1.03
54	Ay	1,2,8,9-TCDD	-	-	- n	-	-	1.03
55	Ay	1,2,4,7,9-PeCDD	-	-	- n	-	-	0.96
56	Ay	1,2,3,8,9-PeCDD	-	-	- n	-	-	0.96
57	Ay	1,2,4,6,7,9-HxCDD	-	-	- n	-	-	0.98 ✓
58	Ay	1,2,3,4,6,7,9-HpCDD	-	-	- n	-	-	0.92
59	Ay	1,3,6,8-TCDF	-	-	- n	-	-	1.01
60	Ay	2,3,4,8-TCDF	-	-	- n	-	-	1.01
61	Ay	1,2,8,9-TCDF	-	-	- n	-	-	1.01
62	Ay	1,3,4,6,8-PeCDF	-	-	- n	-	-	1.01
63	Ay	1,2,3,8,9-PeCDF	-	-	- n	-	-	0.97 ✓
64	Ay	1,2,3,4,6,8-HxCDF	-	-	- n	-	-	1.12 ✓
65	Tot	Total Tetra-Dioxins	-	-	- n	-	-	1.03
66	Tot	Total Penta-Dioxins	-	-	- n	-	-	0.96
67	Tot	Total Hexa-Dioxins	-	-	- n	-	-	0.98
68	Tot	Total Hepta-Dioxins	-	-	- n	-	-	0.92
69	Tot	Total Tetra-Furans	-	-	- n	-	-	1.01
70	Tot	Total Penta-Furans	-	-	- n	-	-	0.97
71	Tot	Total Hexa-Furans	-	-	- n	-	-	1.12
72	Tot	Total Hepta-Furans	-	-	- n	-	-	1.31
73	Tot	TCDD EMPC	-	-	- n	-	-	1.03
74	Tot	PeCDD EMPC	-	-	- n	-	-	0.96
75	Tot	HxCDD EMPC	-	-	- n	-	-	0.98
76	Tot	HpCDD EMPC	-	-	- n	-	-	0.92
77	Tot	TCDF EMPC	-	-	- n	-	-	1.01
78	Tot	PeCDF EMPC	-	-	- n	-	-	0.97
79	Tot	HxCDF EMPC	-	-	- n	-	-	1.12
80	Tot	HpCDF EMPC	-	-	- n	-	-	1.31
81	AS	13C-1,3,6,8-TCDD	100.00	3.29e+07	0.81 y	23:08	-	1.04 ✓
82	AS	13C-1,3,6,8-TCDF	100.00	5.25e+07	0.79 y	20:57	-	1.06 ✓
83	DPE	HxCDPE	-	3.70e+03		23:42	-	-
84	DPE	HpCDPE	-	1.56e+03		30:47	-	-
85	DPE	OCDFE	-	9.51e+03		35:09	-	-
86	DPE	NCDPE	-	1.34e+04		40:20	-	-
87	DPE	DCDFE	-	*		NotF>	-	-
88	LMC	Fn1 check mass	-	*		NotF>	-	-
89	LMC	Fn2 check mass	-	*		NotF>	-	-
90	LMC	Fn3 check mass	-	*		NotF>	-	-
91	LMC	Fn4 check mass	-	*		NotF>	-	-
92	LMC	Fn5 check mass	-	*		NotF>	-	-

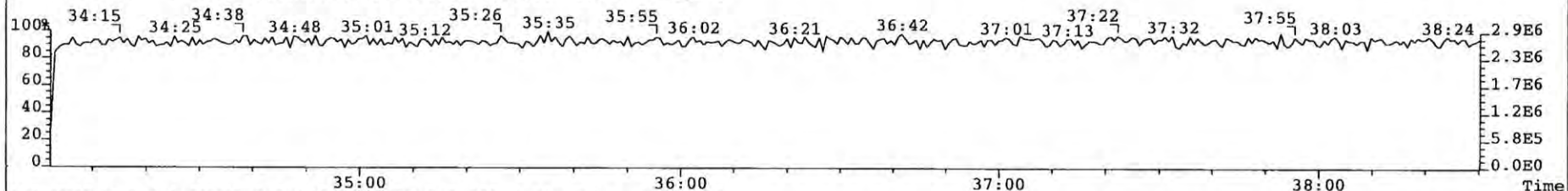
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5  
316.9824 S:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



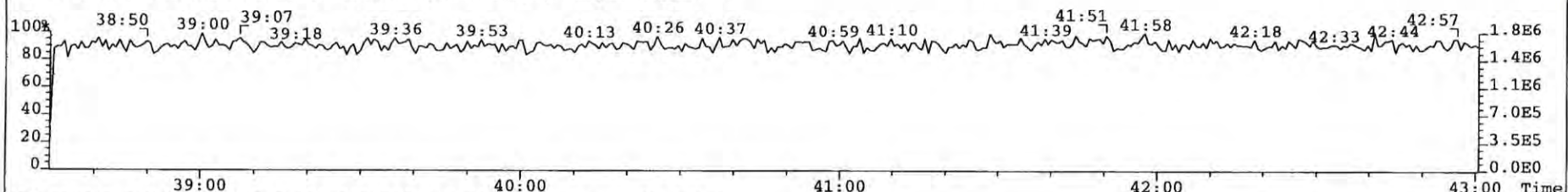
366.9792 S:3 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



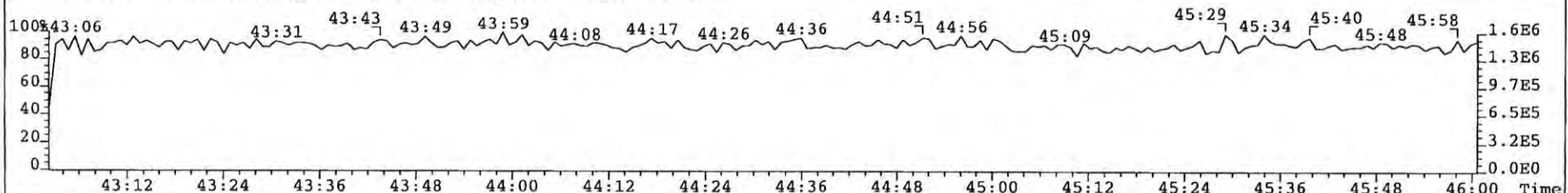
380.9760 S:3 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



430.9728 S:3 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

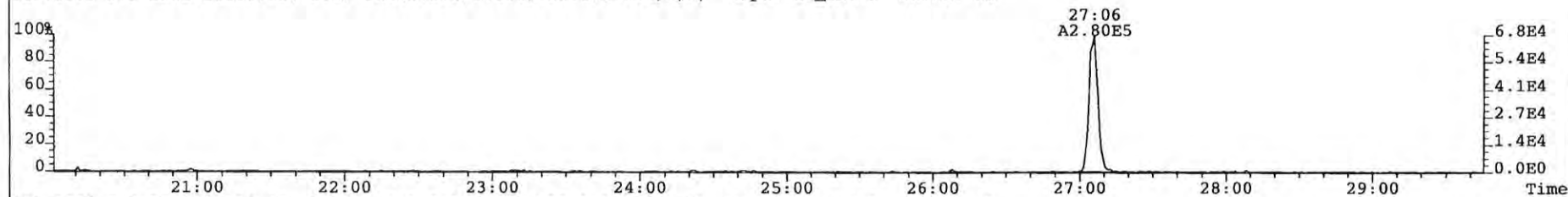


454.9728 S:3 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

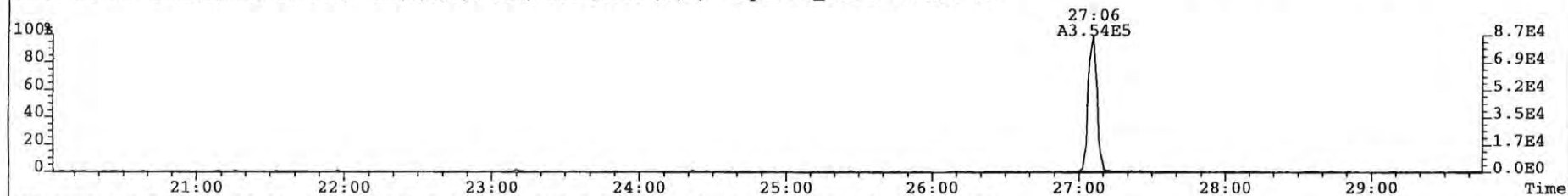




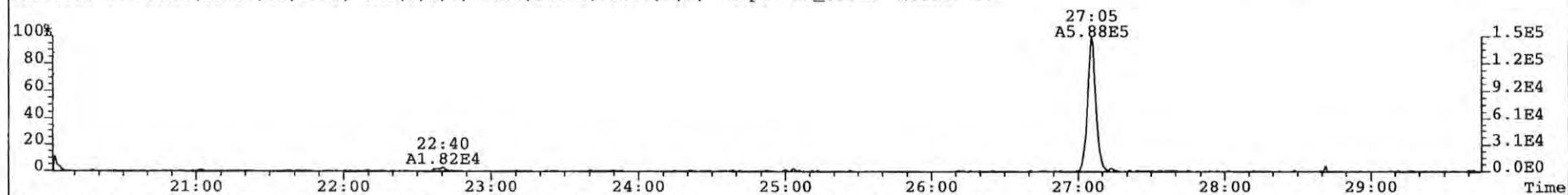
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5  
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 66



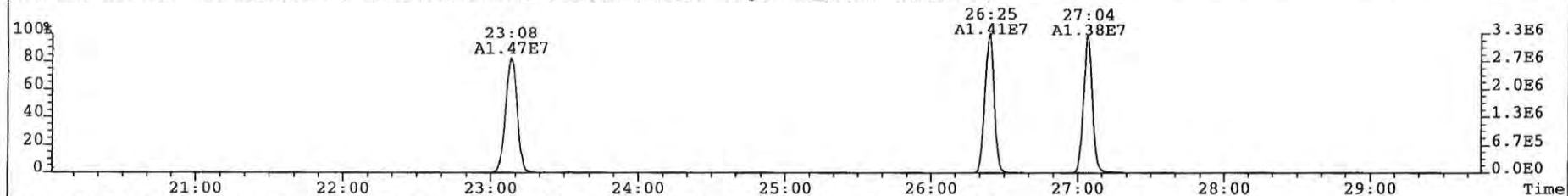
321.8936 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 65



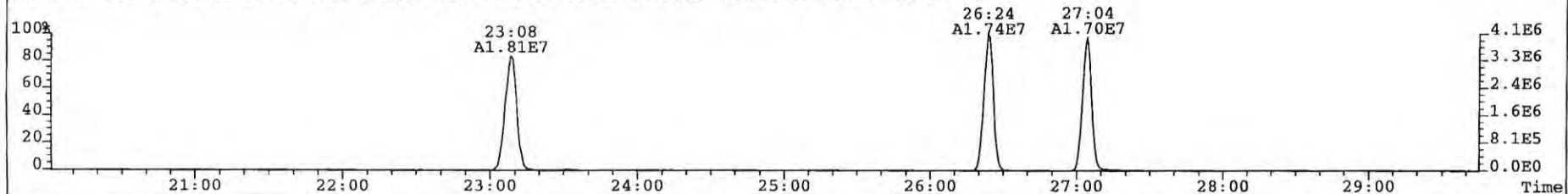
327.8850 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 80



331.9368 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 78



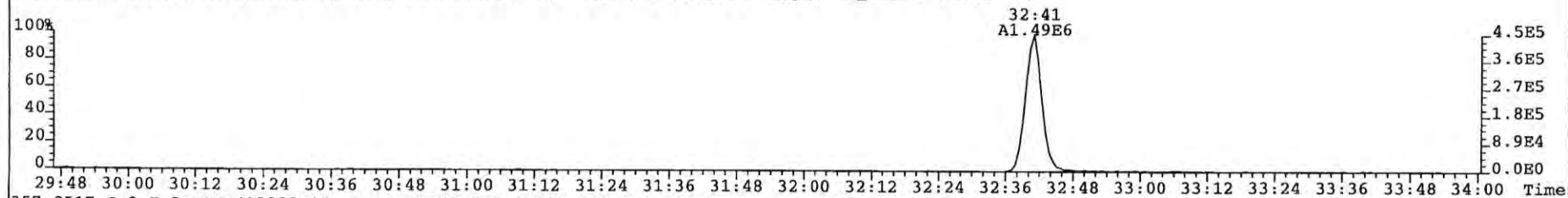
333.9339 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 88



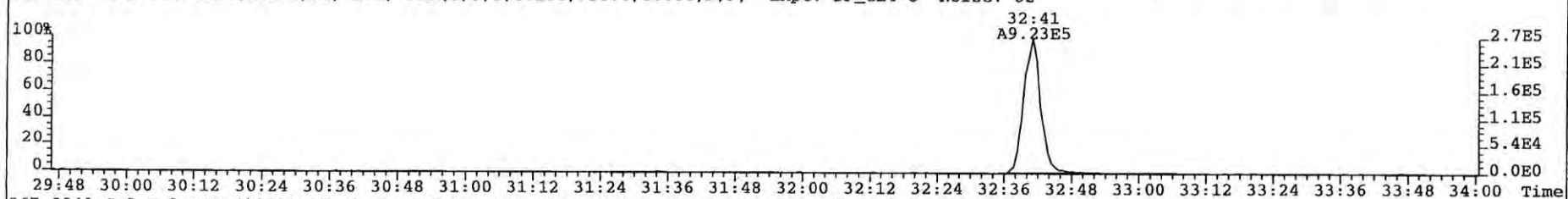
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5

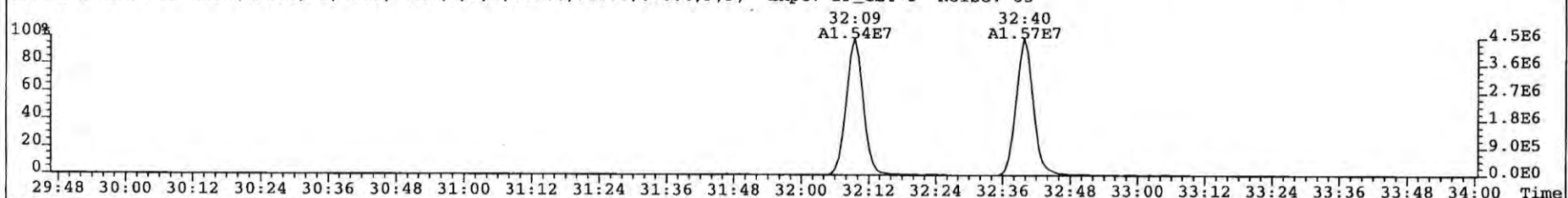
355.8546 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 76



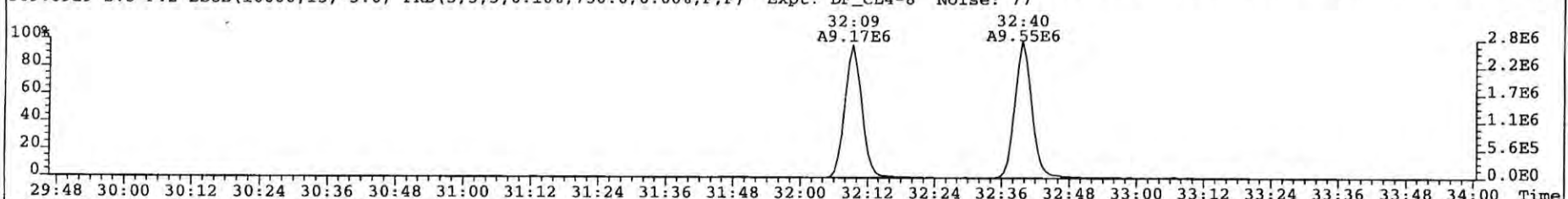
357.8517 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 82



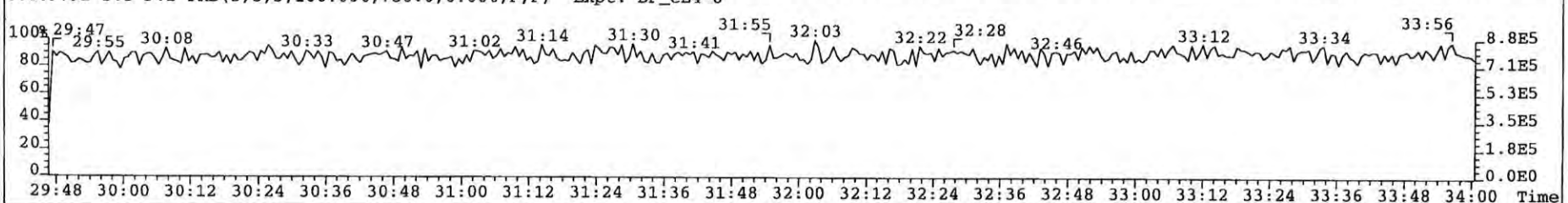
367.8949 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 85



369.8919 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 77



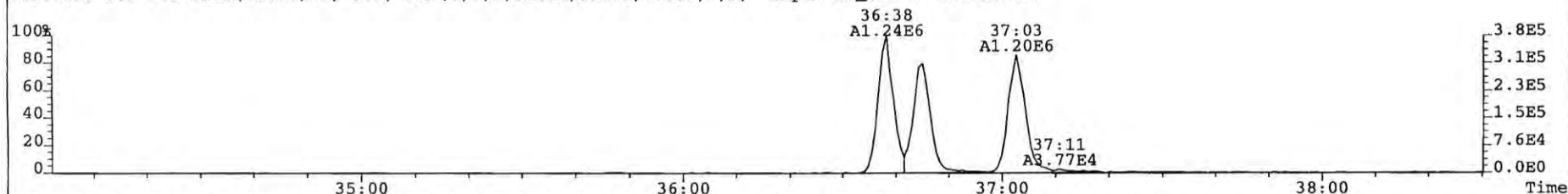
366.9792 S:3 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



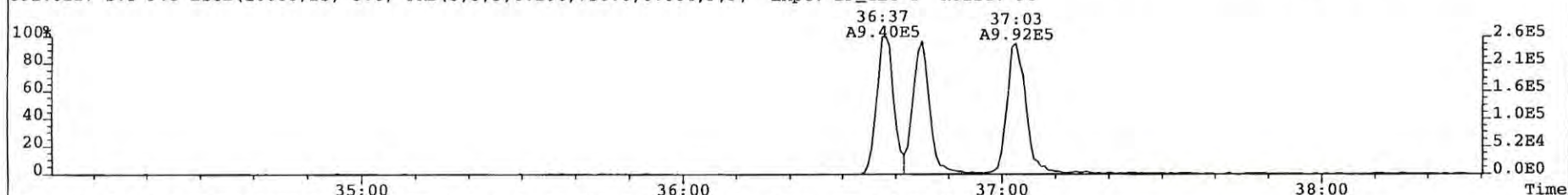
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5

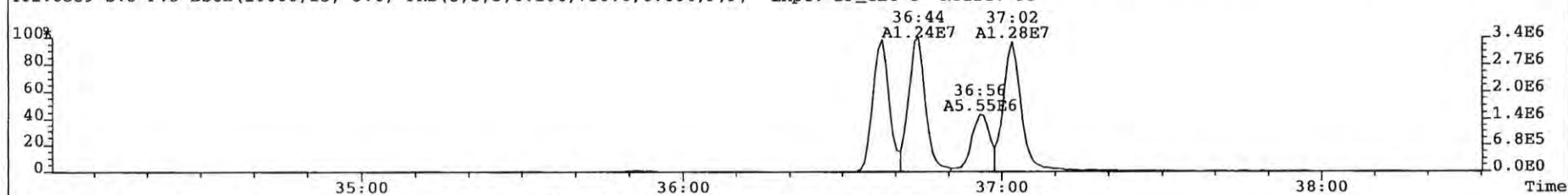
389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 95



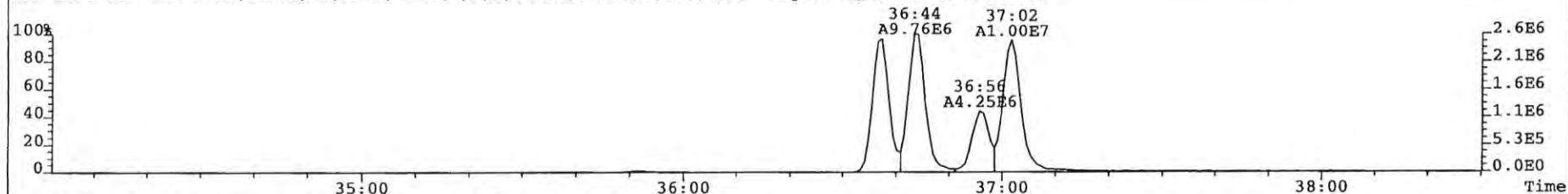
391.8127 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 90



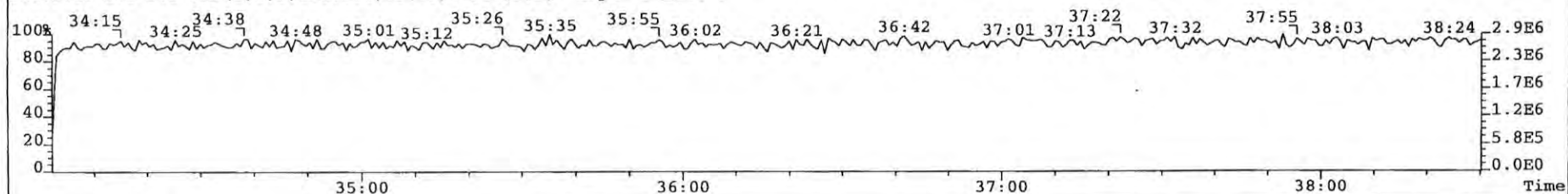
401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 93



403.8530 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 101

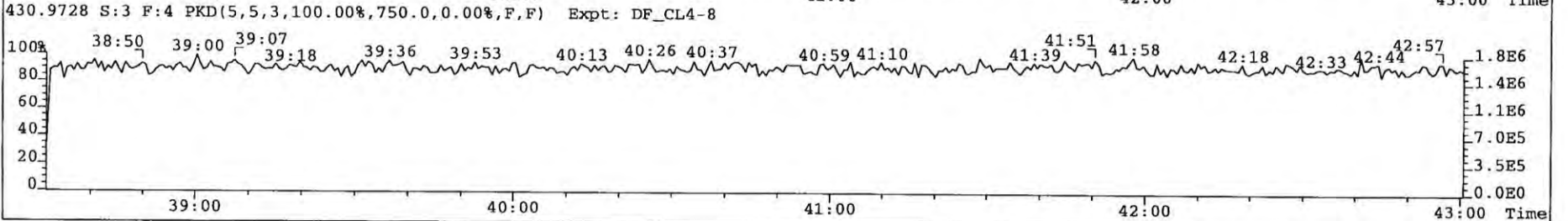
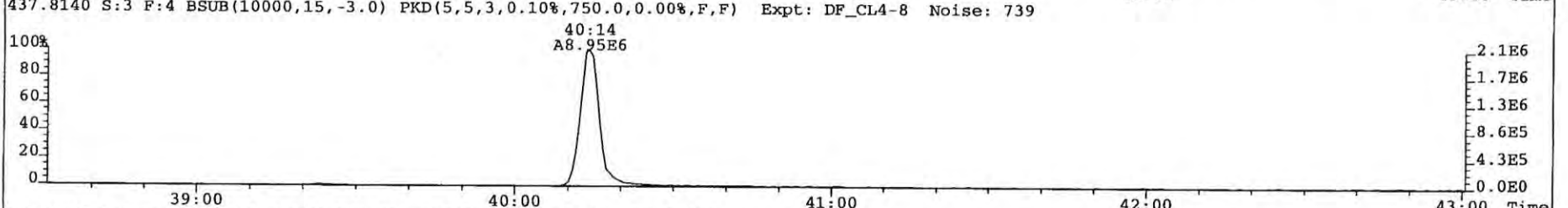
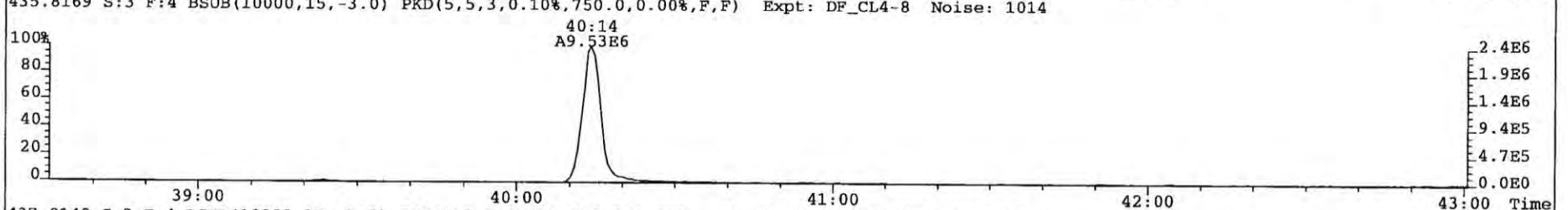
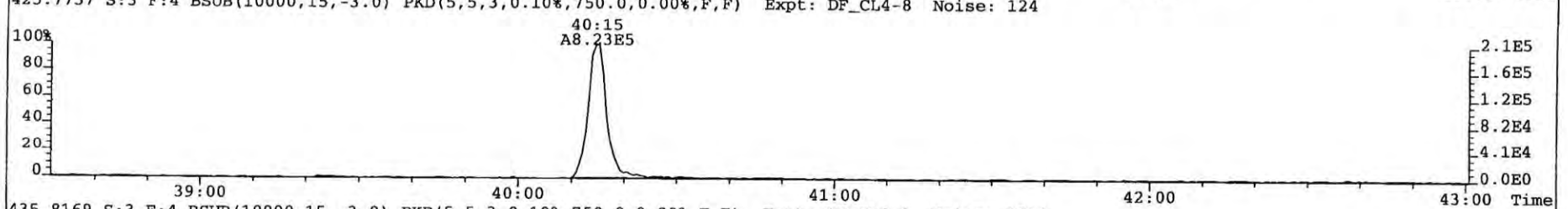
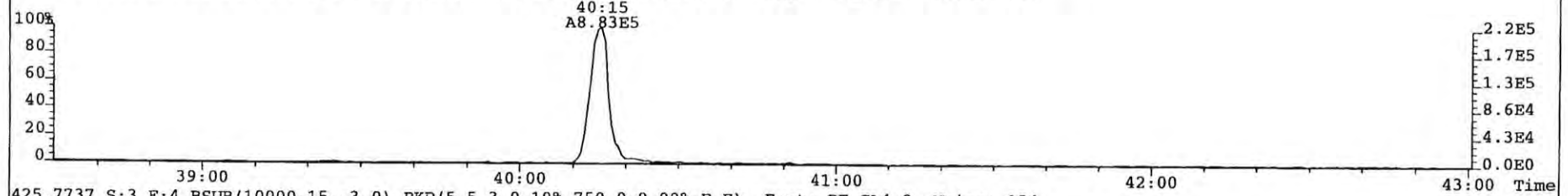


380.9760 S:3 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

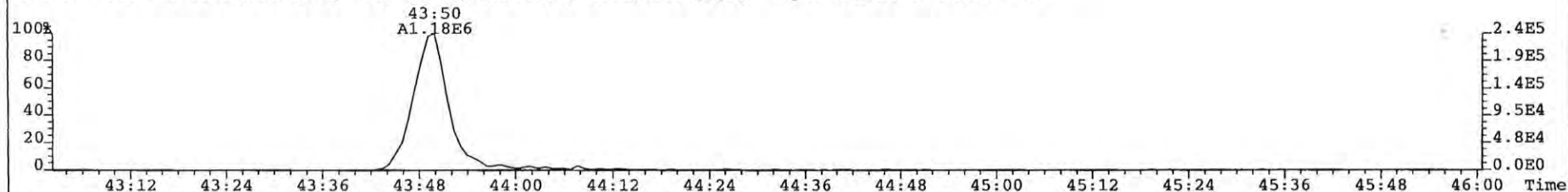




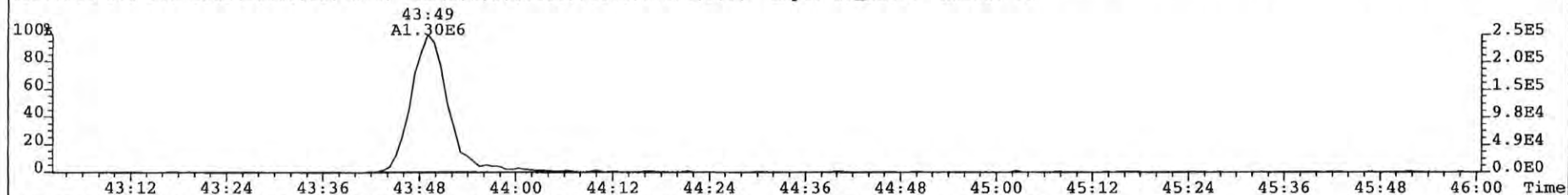
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5  
423.7767 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 207



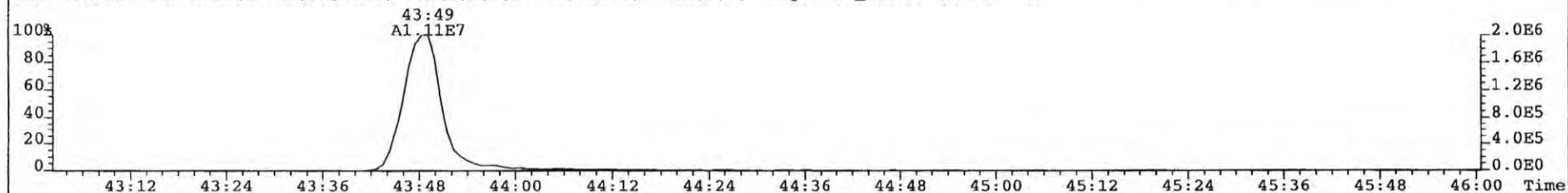
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5  
457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 68



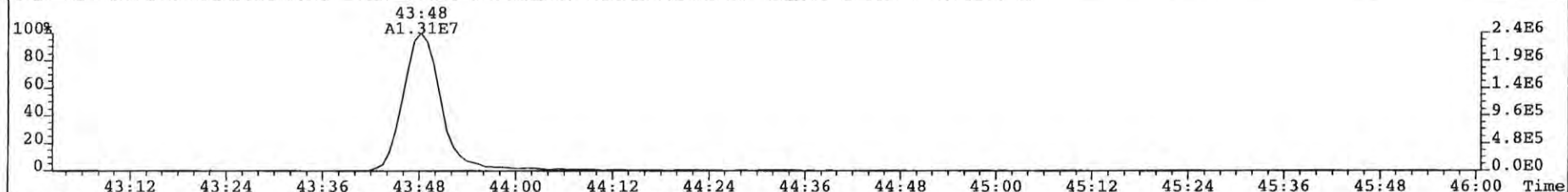
459.7348 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 81



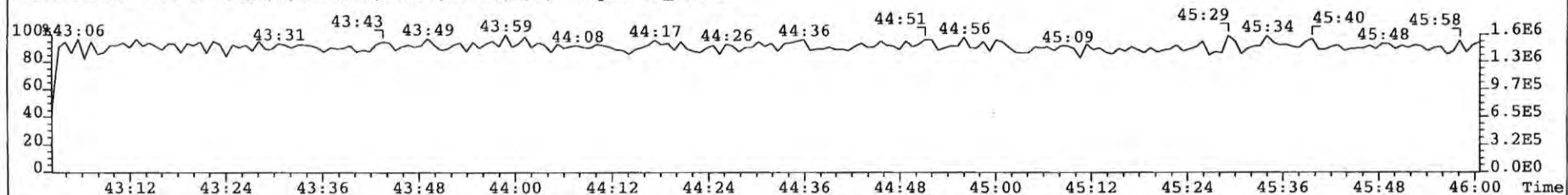
469.7780 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 282



471.7750 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 76



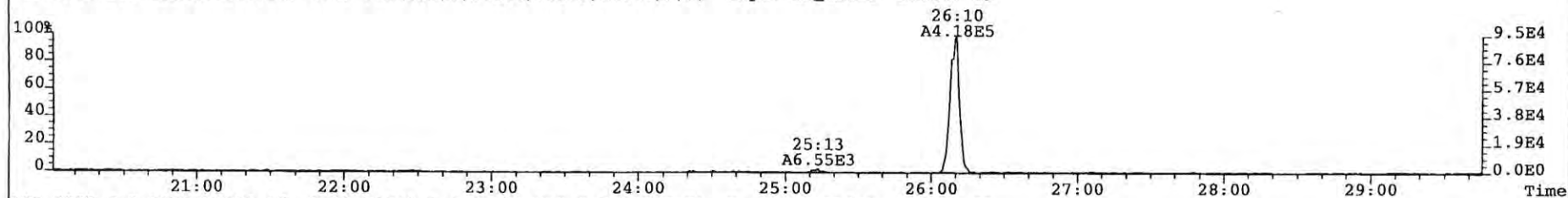
454.9728 S:3 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



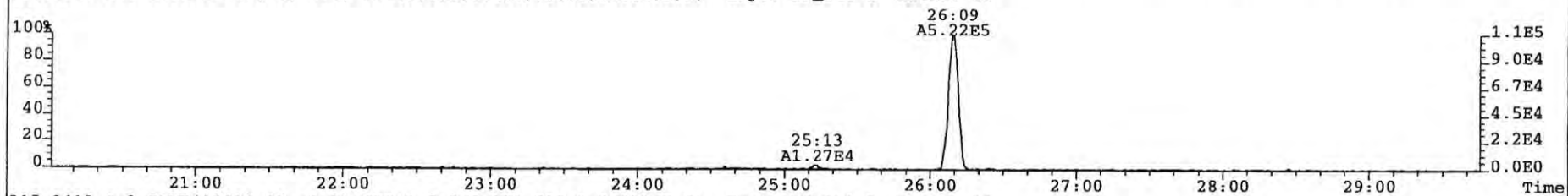
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5

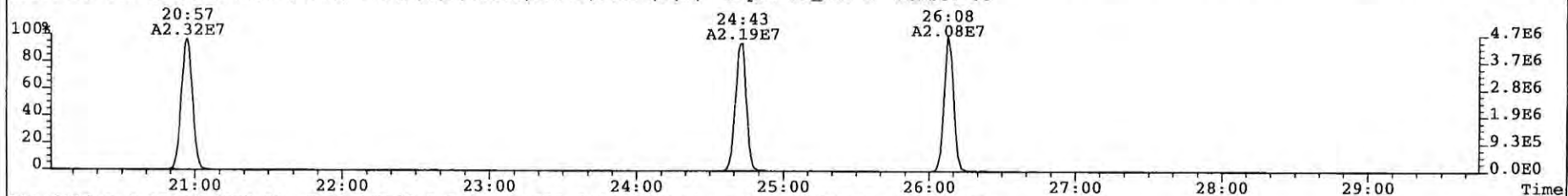
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 69



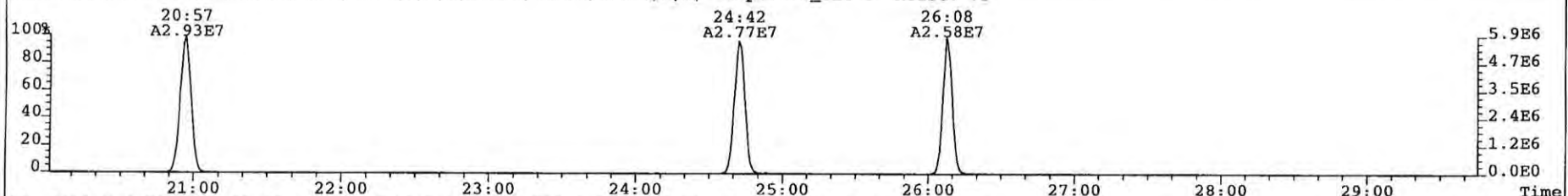
305.8987 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 68



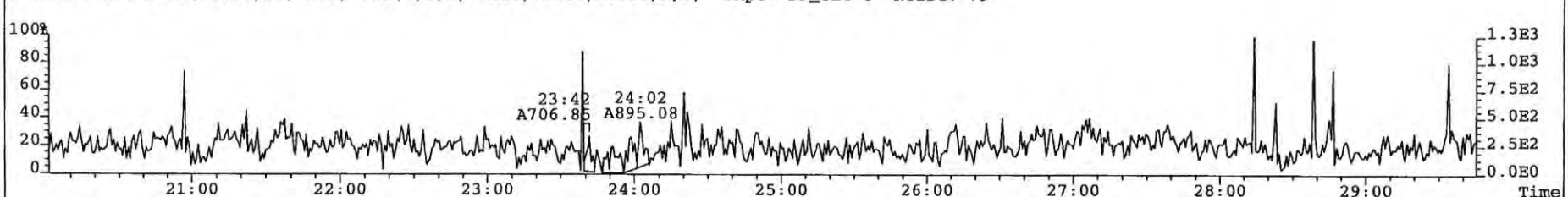
315.9419 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 86



317.9389 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 73

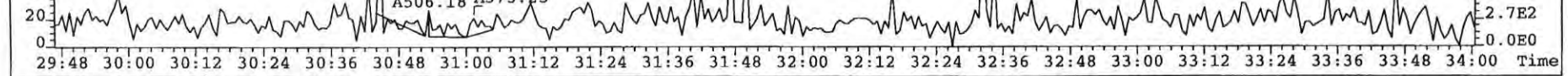
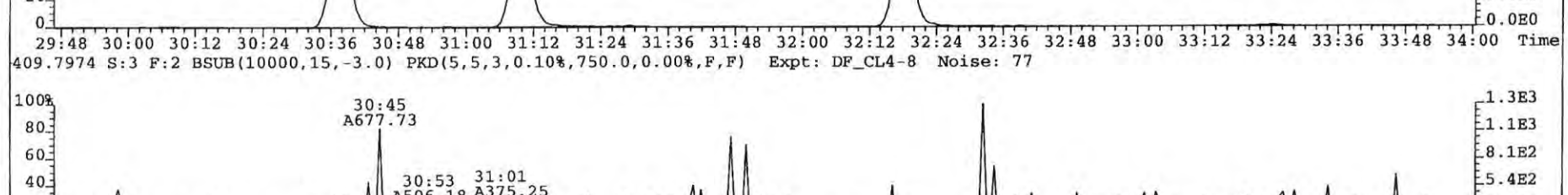
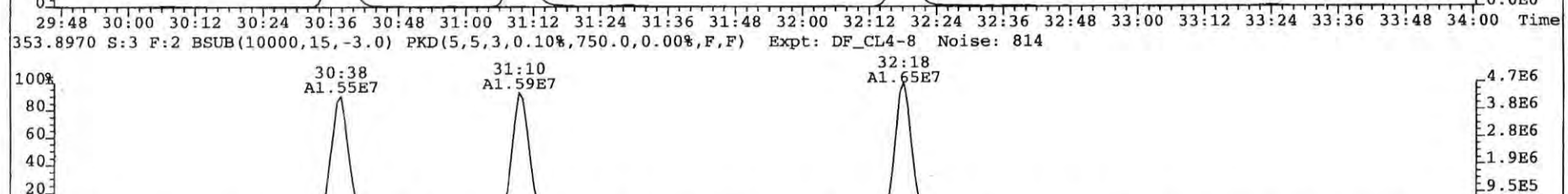
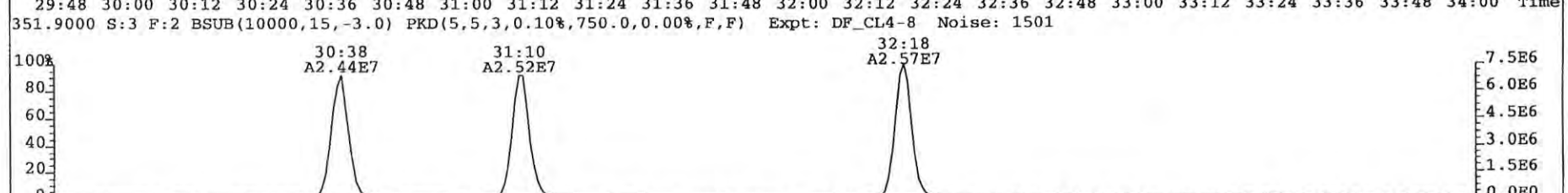
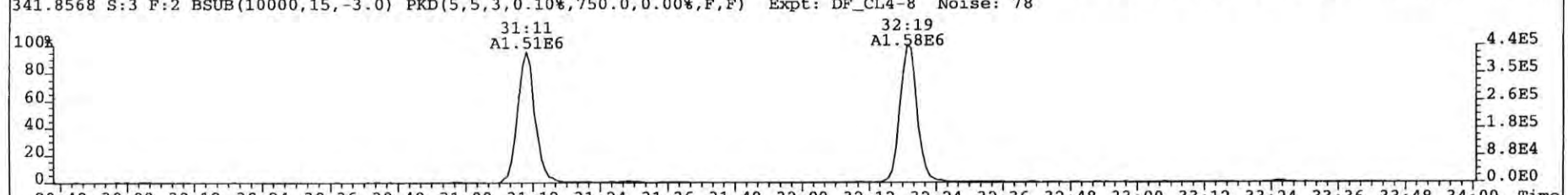
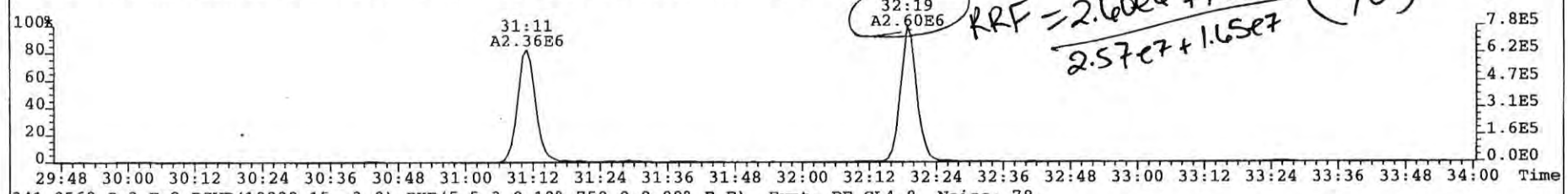


375.8364 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 79

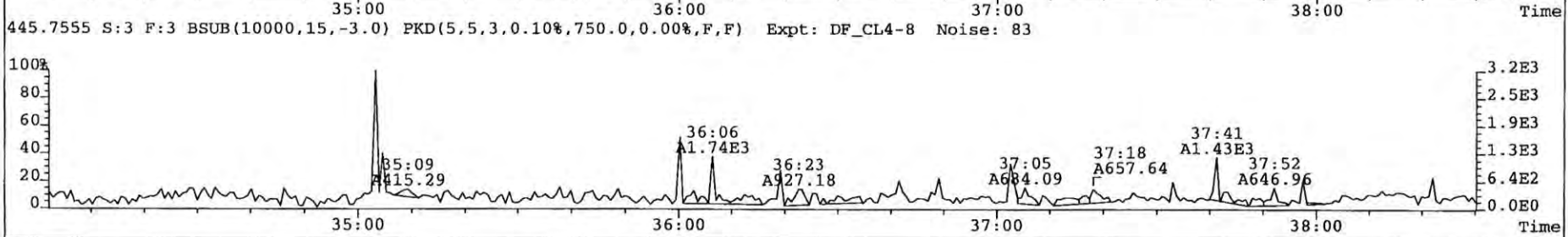
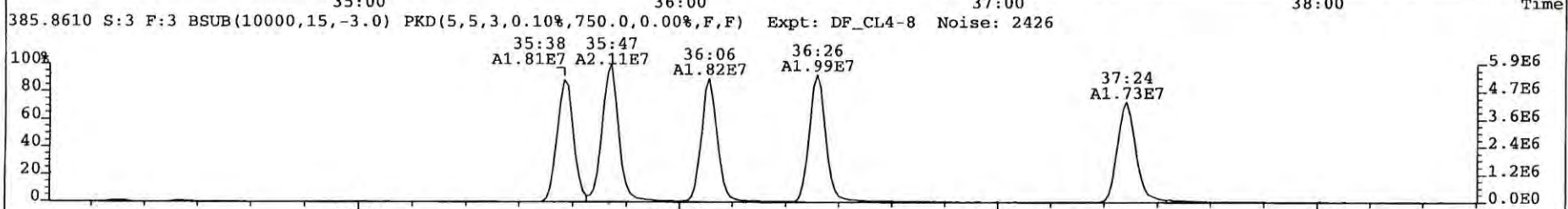
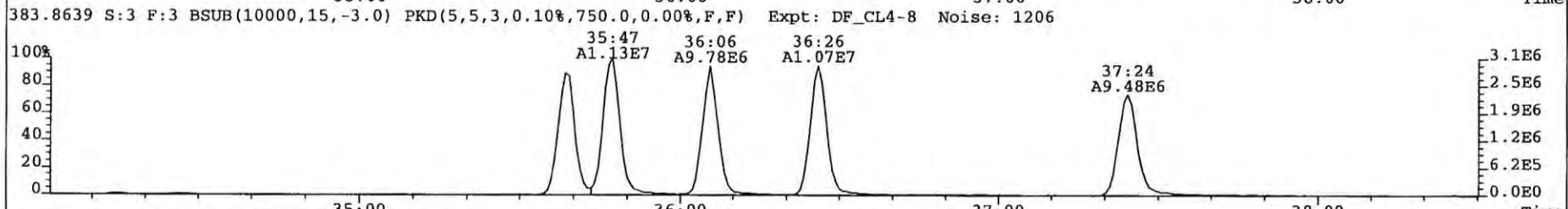
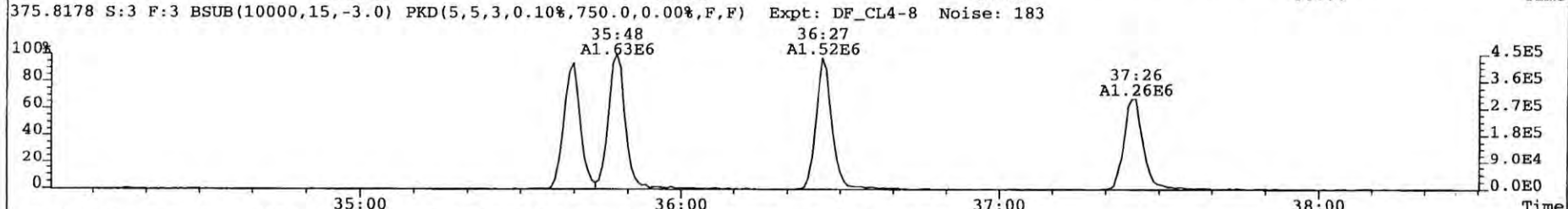
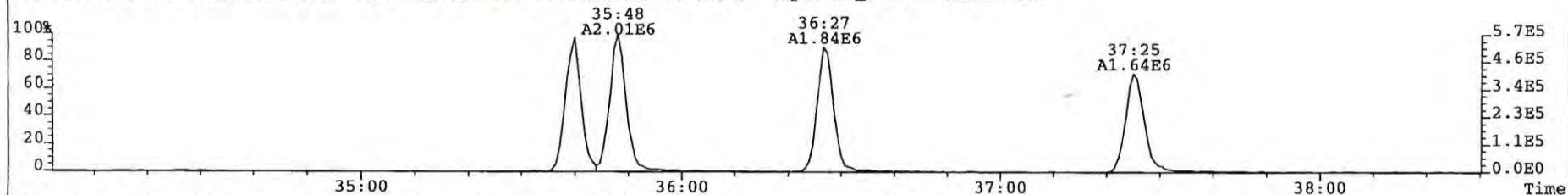




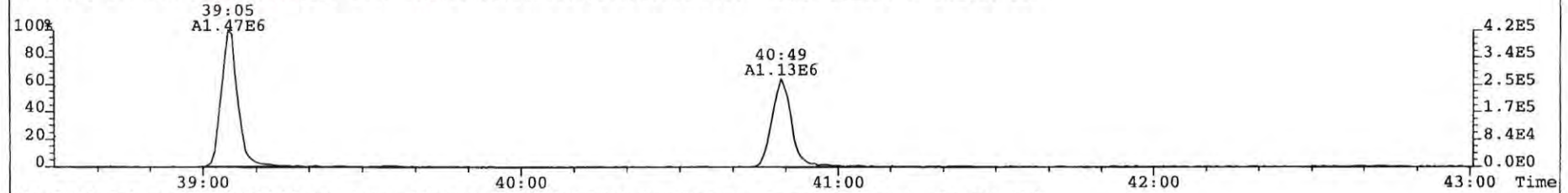
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5  
 339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 217



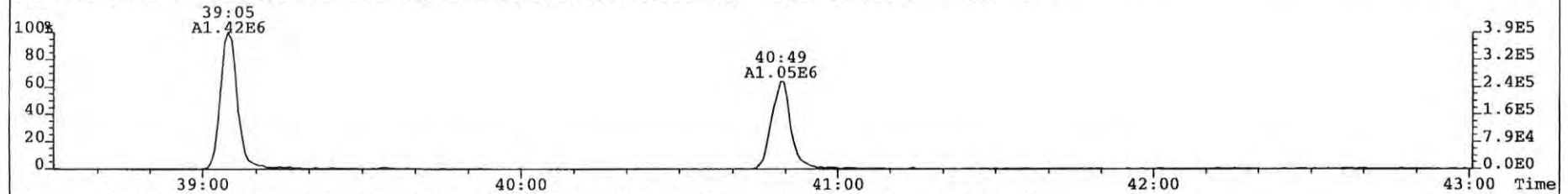
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5  
373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 280



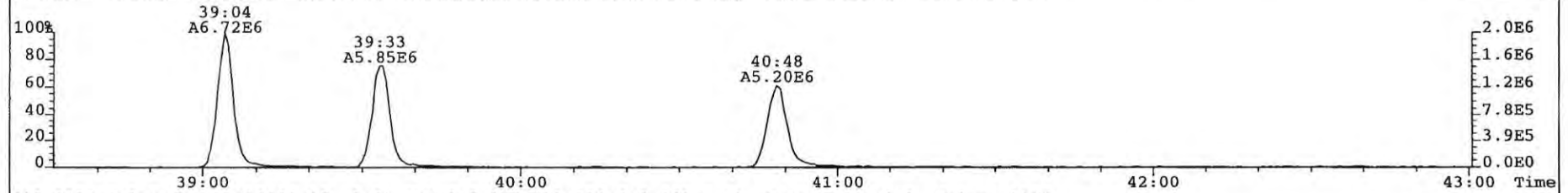
File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5  
407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 232



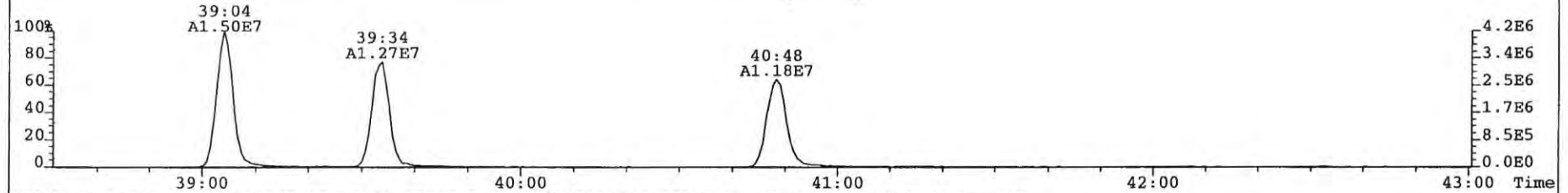
409.7788 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 176



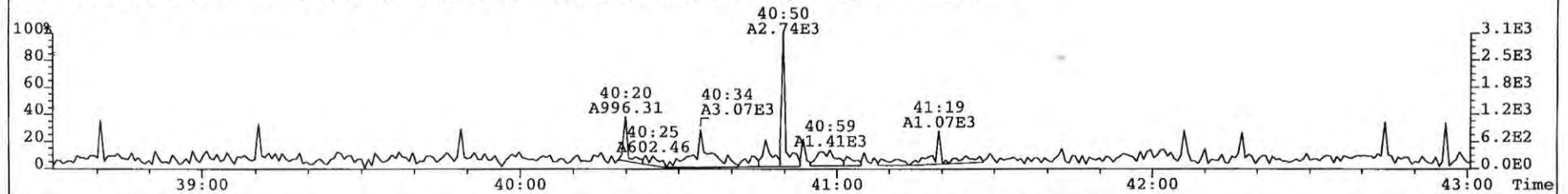
417.8253 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 1021



419.8220 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 1812

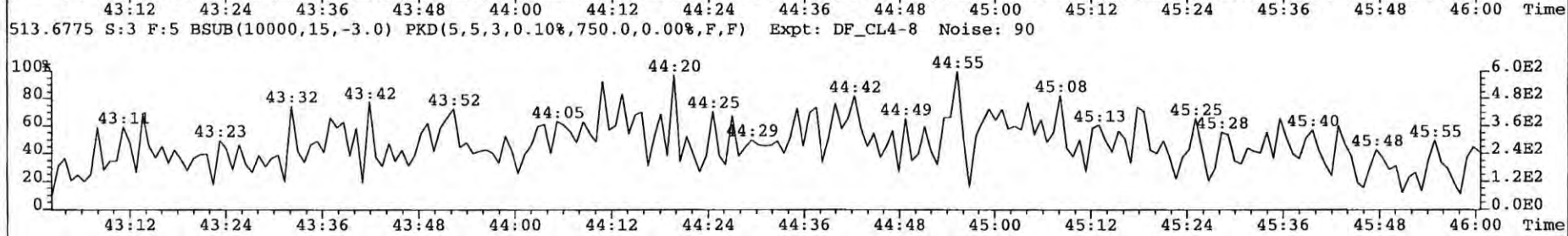
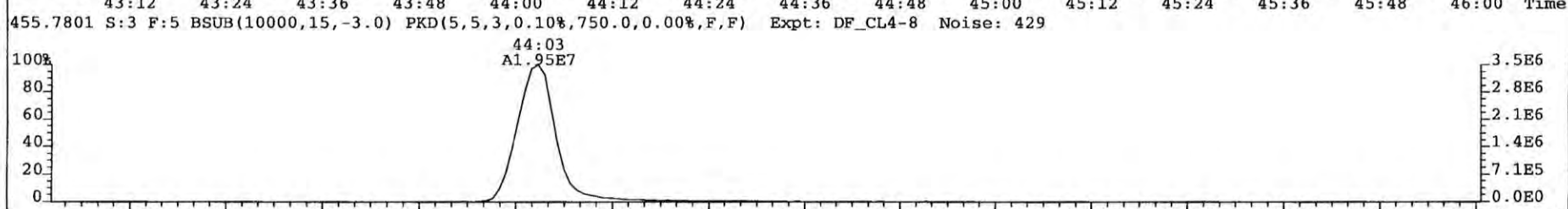
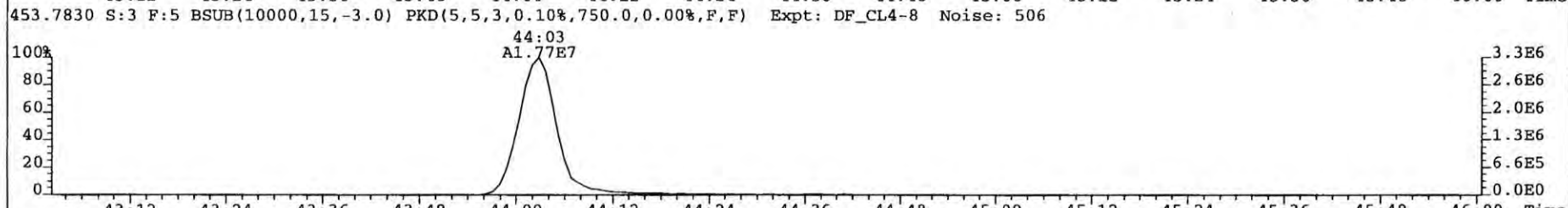
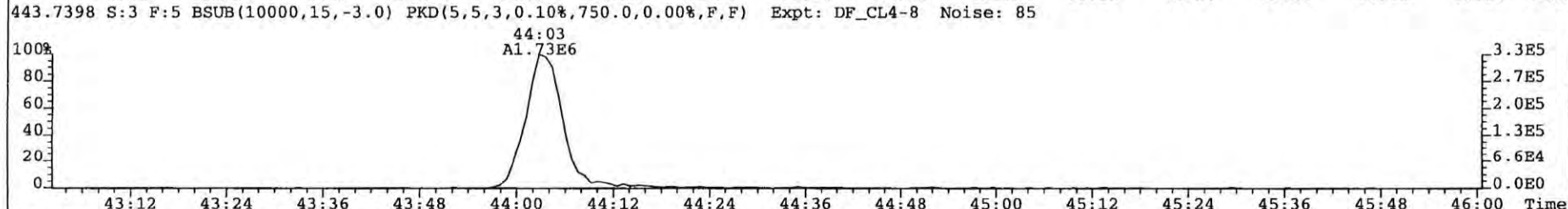
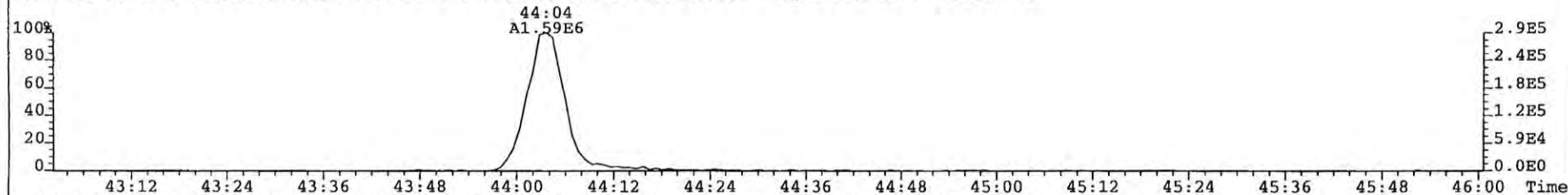


479.7165 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 75





File: 081225P1 Acq: 25-DEC-2008 11:52:35 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 3 Text: SIL7-26-1 NEW ICAL CS2 Vial# 18 File Text: AP DB5  
441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 71



TM 30 Dec 08

Calibration Summary

Analytical Perspectives

[Form: CAL]

Client ID: NEW ICAL CS3 ✓  
 Lab ID: SIL7-25-4  
 Sample text: SIL7-25-4 NEW ICAL CS3

Filename: 081225P1 S: 4 ✓ Acq: 25-DEC-08 12:42:45  
 GC Column ID: db-5 ICAL: MM1\_DF\_07012007A 25DEC08 Wt/Vol: 1.000  
 Vial: 19

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Ax	2,3,7,8-TCDD	10.00	3.70e+06	0.77 y	27:06	1.08✓
2	Ax	1,2,3,7,8-PeCDD	50.00	1.36e+07	1.63 y	32:41	1.01
3	Ax	1,2,3,4,7,8-HxCDD	50.00	1.20e+07	1.26 y	36:38	1.11
4	Ax	1,2,3,6,7,8-HxCDD	50.00	1.19e+07	1.26 y	36:45	0.96✓
5	Ax	1,2,3,7,8,9-HxCDD	50.00	1.25e+07	1.26 y	37:03	1.02
6	Ax	1,2,3,4,6,7,8-HpCDD	50.00	9.64e+06	1.06 y	40:15	0.96
7	Ax	OCDD	100.00	1.36e+07	0.87 y	43:49	1.04 ✓ calc.
8	Ax2	OCDD-a	100.00	7.50e+05	2.85 y	43:49	0.06✓
9	Ax	2,3,7,8-TCDF	10.00	5.40e+06	0.78 y	26:09	1.03✓
10	Ax	1,2,3,7,8-PeCDF	50.00	2.20e+07	1.59 y	31:11	0.98
11	Ax	2,3,4,7,8-PeCDF	50.00	2.35e+07	1.57 y	32:19	1.03
12	Ax	1,2,3,4,7,8-HxCDF	50.00	1.85e+07	1.26 y	35:40	1.23✓
13	Ax	1,2,3,6,7,8-HxCDF	50.00	2.09e+07	1.25 y	35:48	1.17
14	Ax	2,3,4,6,7,8-HxCDF	50.00	1.89e+07	1.27 y	36:27	1.13
15	Ax	1,2,3,7,8,9-HxCDF	50.00	1.63e+07	1.25 y	37:26	1.13✓
16	Ax	1,2,3,4,6,7,8-HpCDF	50.00	1.62e+07	1.04 y	39:05	1.37
17	Ax	1,2,3,4,7,8,9-HpCDF	50.00	1.24e+07	1.04 y	40:50	1.37
18	Ax	OCDF	100.00	1.91e+07	0.93 y	44:04	0.94✓
19	Ax2	OCDF-a	100.00	9.58e+05	2.92 n	44:04	0.05
20	ES	13C-2,3,7,8-TCDD	100.00	3.42e+07	0.81 y	27:04	0.98✓
21	ES	13C-1,2,3,7,8-PeCDD	100.00	2.70e+07	1.61 y	32:40	0.77
22	ES	13C-1,2,3,4,7,8-HxCDD	100.00	2.18e+07	1.29 y	36:37	1.01
23	ES	13C-1,2,3,6,7,8-HxCDD	100.00	2.49e+07	1.28 y	36:44	1.15✓
24	ES	13C-1,2,3,7,8,9-HxCDD	100.00	2.44e+07	1.28 y	37:02	1.13
25	ES	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.00e+07	1.10 y	40:15	0.93 ✓ calc.
26	ES	13C-OCDD	200.00	2.61e+07	0.86 y	43:49	0.60 ✓ calc.
27	ES	13C-2,3,7,8-TCDF	100.00	5.24e+07	0.80 y	26:08	0.95✓
28	ES	13C-1,2,3,7,8-PeCDF	100.00	4.49e+07	1.58 y	31:10	0.81
29	ES	13C-2,3,4,7,8-PeCDF	100.00	4.59e+07	1.58 y	32:18	0.83
30	ES	13C-1,2,3,4,7,8-HxCDF	100.00	3.01e+07	0.54 y	35:39	1.39✓
31	ES	13C-1,2,3,6,7,8-HxCDF	100.00	3.56e+07	0.54 y	35:47	1.65
32	ES	13C-2,3,4,6,7,8-HxCDF	100.00	3.34e+07	0.54 y	36:26	1.55
33	ES	13C-1,2,3,7,8,9-HxCDF	100.00	2.87e+07	0.55 y	37:25	1.33
34	ES	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.36e+07	0.45 y	39:04	1.09
35	ES	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.82e+07	0.47 y	40:49	0.84
36	ES	13C-OCDF	200.00	4.06e+07	0.92 y	44:03	0.94✓
37	CS	37C1-2,3,7,8-TCDD	10.00	3.40e+06		27:06	0.97✓
38	CS	13C-1,2,3,4,7-PeCDD	100.00	2.57e+07	1.65 y	32:09	0.74
39	CS	13C-1,2,3,4,6-PeCDF	100.00	4.27e+07	1.56 y	30:37	0.77
40	CS	13C-1,2,3,4,6,9-HxCDF	100.00	2.92e+07	0.54 y	36:06	1.35
41	CS	13C-1,2,3,4,6,8,9-HpCDF	100.00	1.83e+07	0.45 y	39:34	0.85✓
42	NA	n/a	100.00	*	* n	NotF>	*
43	JS/RT	13C-1,2,3,4-TCDD	100.00	3.50e+07	0.83 y	26:24	3.50e+05 -
44	JS	13C-1,2,3,4-TCDF	100.00	5.53e+07	0.78 y	24:42	5.53e+05 -
45	JS/RT	13C-1,2,3,4,6,7-HxCDD	50.00	1.08e+07	1.27 y	36:56	2.16e+05 -

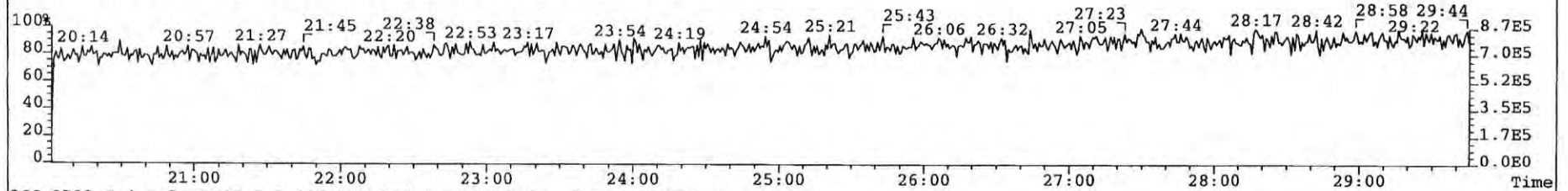
10pg/ml

Analyst: [Signature]  
 Date: 25 Dec 08

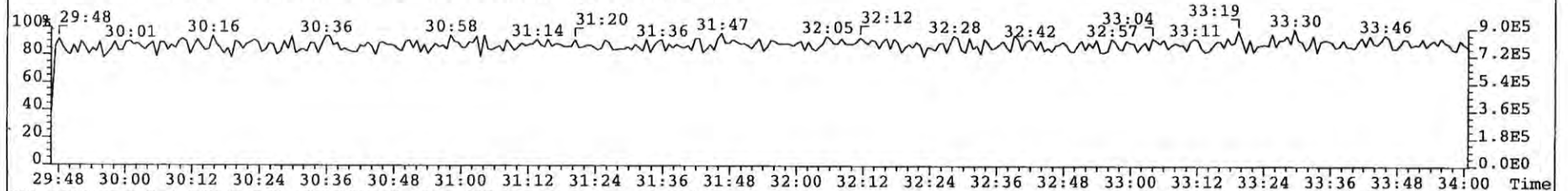
46	SS	37Cl-2,3,7,8-TCDD	10.00	3.40e+06		27:06	-	1.00 ✓
47	SS	13C-1,2,3,4,7-PeCDD	100.00	2.57e+07	1.65 y	32:09	-	0.95
48	SS	13C-1,2,3,4,6-PeCDF	100.00	4.27e+07	1.56 y	30:37	-	0.95 ✓
49	SS	13C-1,2,3,4,6,9-HxCDF	100.00	2.92e+07	0.54 y	36:06	-	0.82
50	SS	13C-1,2,3,4,6,8,9-HpCDF	100.00	1.83e+07	0.45 y	39:34	-	0.77 ✓
51	SBS	2,4,6,8-TCDF	-	-	- n	-	-	1.03 ✓
52	Ay	1,3,6,8-TCDD	-	-	- n	-	-	1.08 ✓
53	Ay	1,2,3,9-TCDD	-	-	- n	-	-	1.08
54	Ay	1,2,8,9-TCDD	-	-	- n	-	-	1.08
55	Ay	1,2,4,7,9-PeCDD	-	-	- n	-	-	1.01
56	Ay	1,2,3,8,9-PeCDD	-	-	- n	-	-	1.01
57	Ay	1,2,4,6,7,9-HxCDD	-	-	- n	-	-	1.03 ✓
58	Ay	1,2,3,4,6,7,9-HpCDD	-	-	- n	-	-	0.96
59	Ay	1,3,6,8-TCDF	-	-	- n	-	-	1.03
60	Ay	2,3,4,8-TCDF	-	-	- n	-	-	1.03
61	Ay	1,2,8,9-TCDF	-	-	- n	-	-	1.03
62	Ay	1,3,4,6,8-PeCDF	-	-	- n	-	-	1.03 ✓
63	Ay	1,2,3,8,9-PeCDF	-	-	- n	-	-	1.00
64	Ay	1,2,3,4,6,8-HxCDF	-	-	- n	-	-	1.17 ✓
65	Tot	Total Tetra-Dioxins	-	-	- n	-	-	1.08
66	Tot	Total Penta-Dioxins	-	-	- n	-	-	1.01
67	Tot	Total Hexa-Dioxins	-	-	- n	-	-	1.03
68	Tot	Total Hepta-Dioxins	-	-	- n	-	-	0.96
69	Tot	Total Tetra-Furans	-	-	- n	-	-	1.03
70	Tot	Total Penta-Furans	-	-	- n	-	-	1.00
71	Tot	Total Hexa-Furans	-	-	- n	-	-	1.17
72	Tot	Total Hepta-Furans	-	-	- n	-	-	1.37
73	Tot	TCDD EMPC	-	-	- n	-	-	1.08
74	Tot	PeCDD EMPC	-	-	- n	-	-	1.01
75	Tot	HxCDD EMPC	-	-	- n	-	-	1.03
76	Tot	HpCDD EMPC	-	-	- n	-	-	0.96
77	Tot	TCDF EMPC	-	-	- n	-	-	1.03
78	Tot	PeCDF EMPC	-	-	- n	-	-	1.00
79	Tot	HxCDF EMPC	-	-	- n	-	-	1.17
80	Tot	HpCDF EMPC	-	-	- n	-	-	1.37
81	AS	13C-1,3,6,8-TCDD	100.00	3.85e+07	0.81 y	23:08	-	1.10 ✓
82	AS	13C-1,3,6,8-TCDF	100.00	6.10e+07	0.79 y	20:56	-	1.10 ✓
83	DPE	HxCdPE	-	3.97e+04		20:57	-	-
84	DPE	HpCdPE	-	3.73e+03		30:59	-	-
85	DPE	OCDPE	-	1.15e+04		34:34	-	-
86	DPE	NCDPE	-	*		NotF>>	-	-
87	DPE	DCDPE	-	*		NotF>>	-	-
88	LMC	Fn1 check mass	-	*		NotF>>	-	-
89	LMC	Fn2 check mass	-	*		NotF>>	-	-
90	LMC	Fn3 check mass	-	*		NotF>>	-	-
91	LMC	Fn4 check mass	-	*		NotF>>	-	-
92	LMC	Fn5 check mass	-	*		NotF>>	-	-



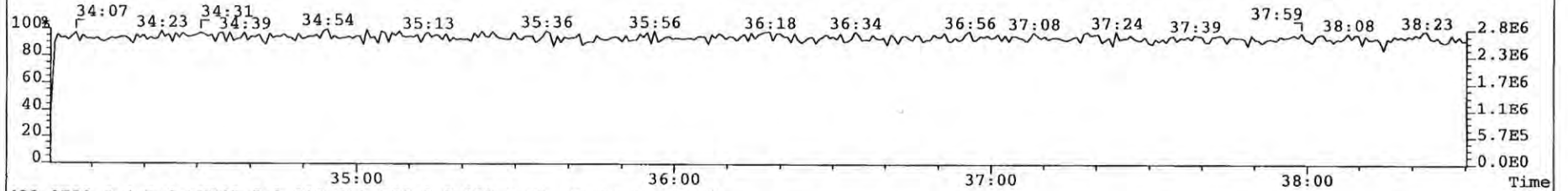
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5  
316.9824 S:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



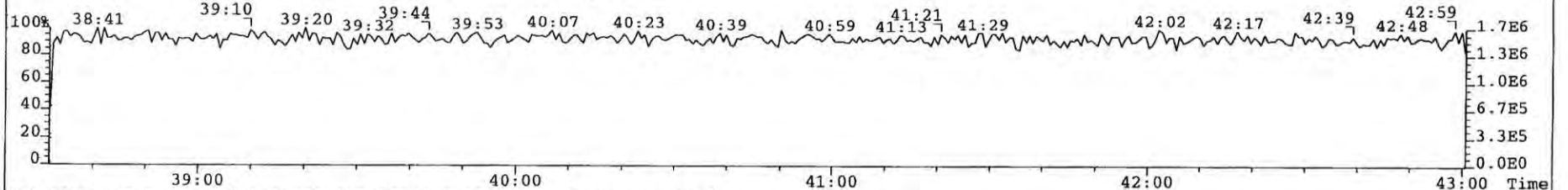
366.9792 S:4 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



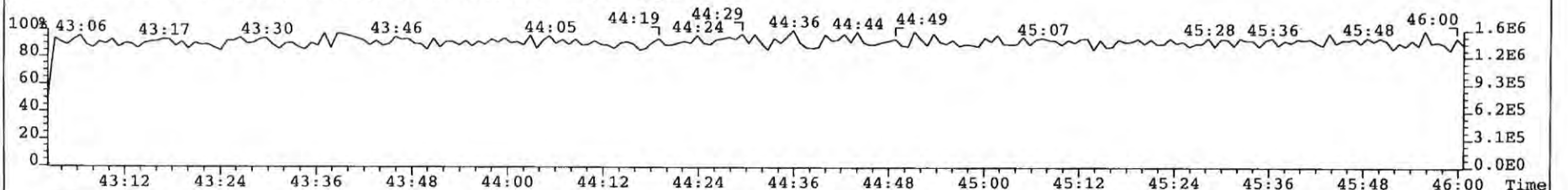
380.9760 S:4 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



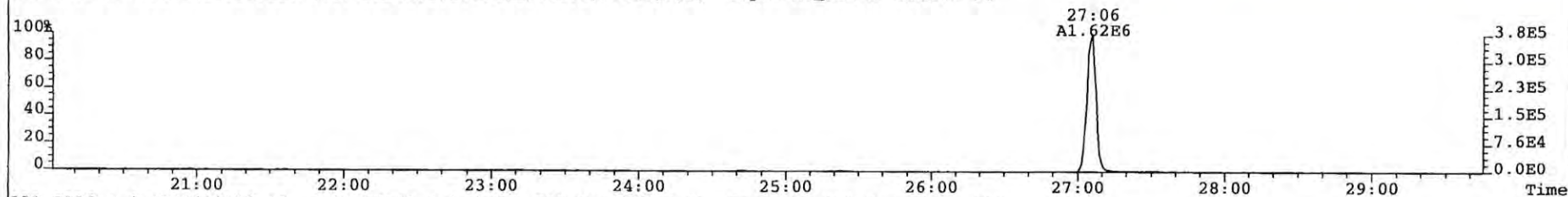
430.9728 S:4 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



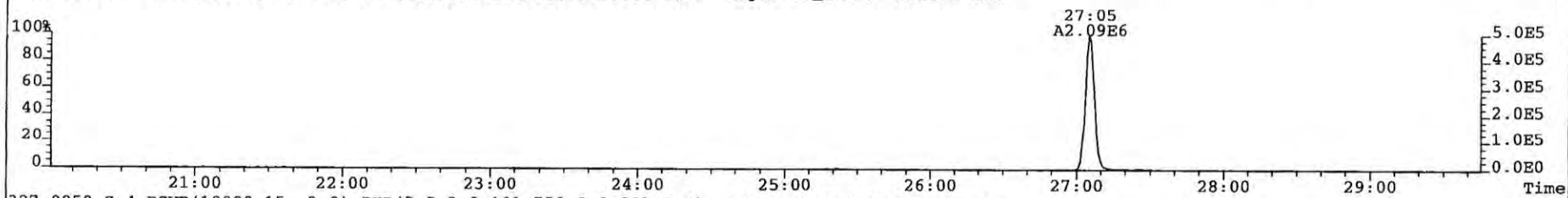
454.9728 S:4 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



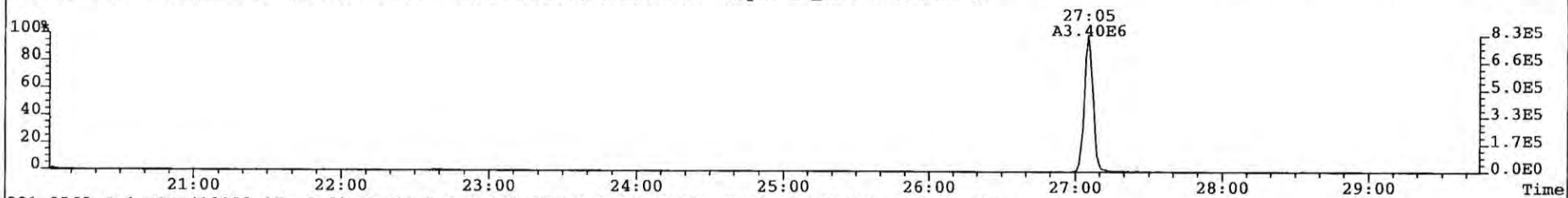
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5  
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 94



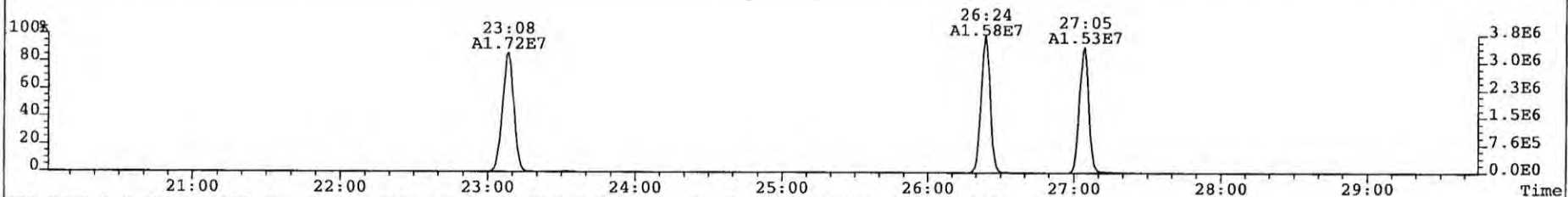
321.8936 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 100



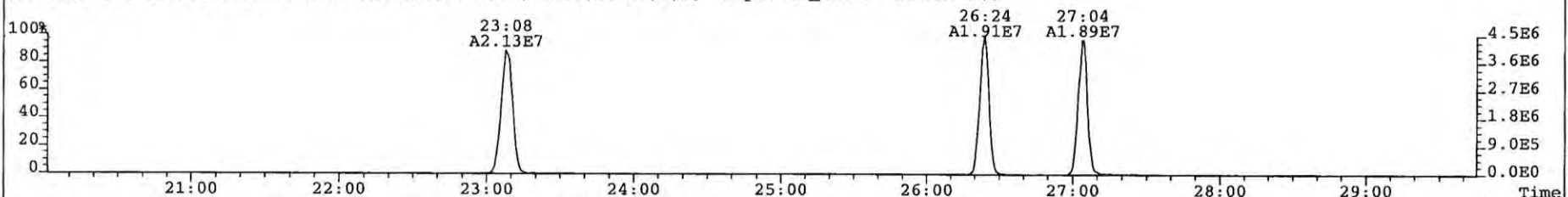
327.8850 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 98



331.9368 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 110



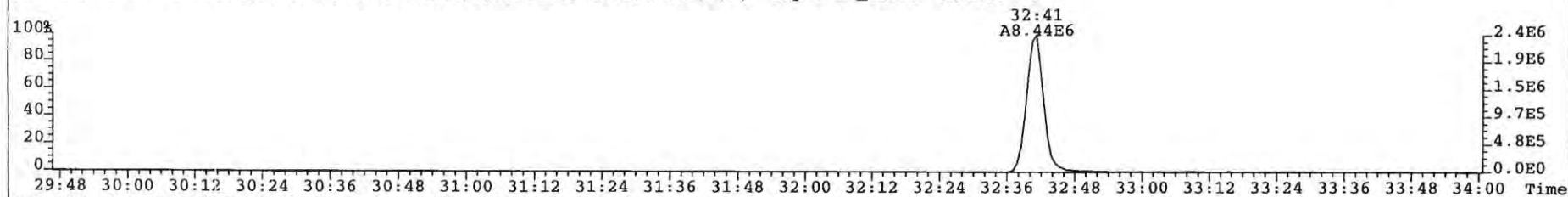
333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 108



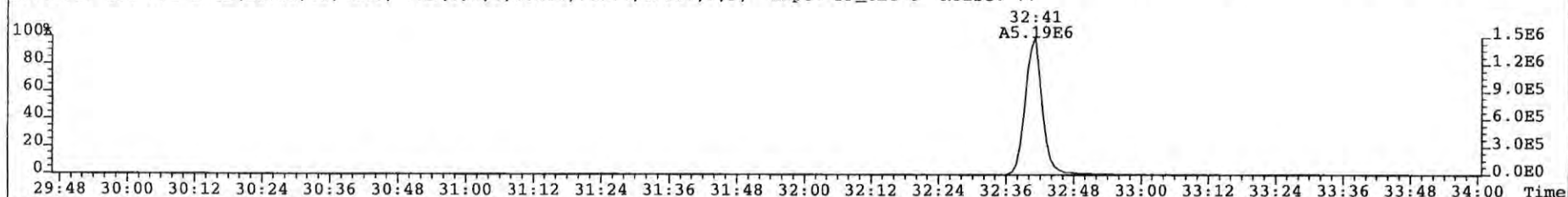
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5

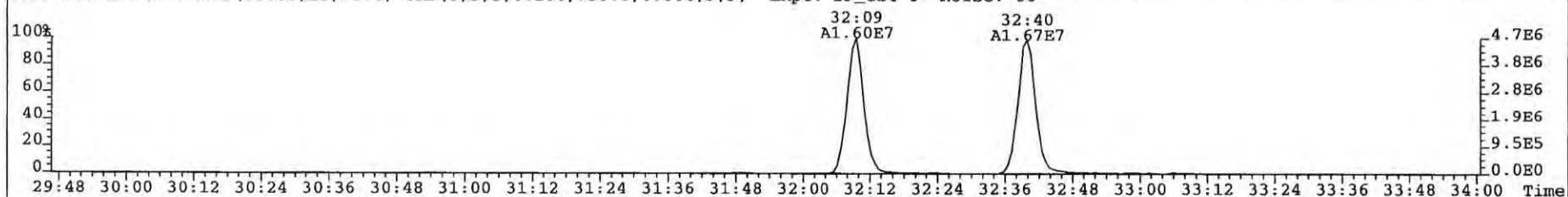
355.8546 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 76



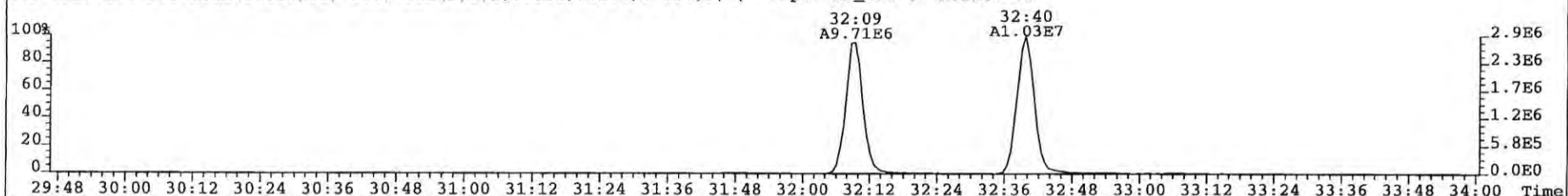
357.8517 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 77



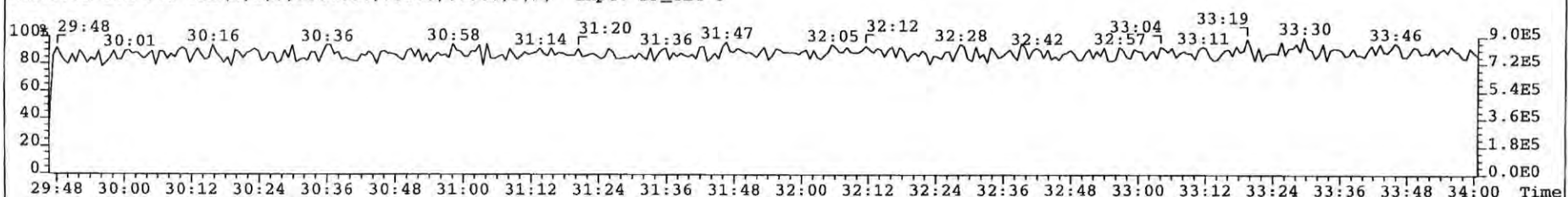
367.8949 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 86



369.8919 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 72



366.9792 S:4 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

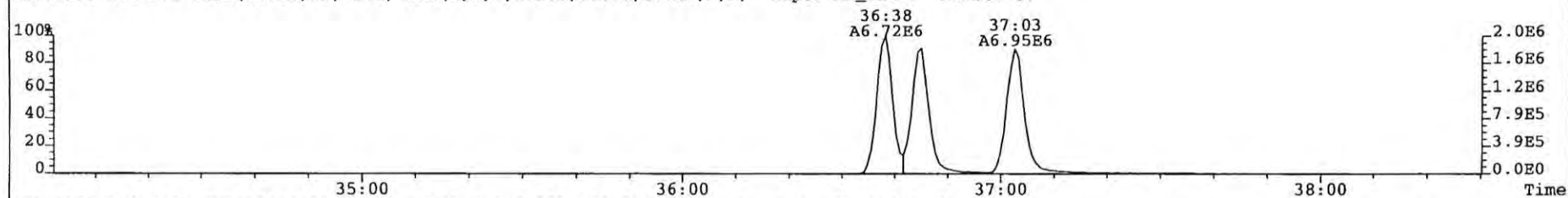




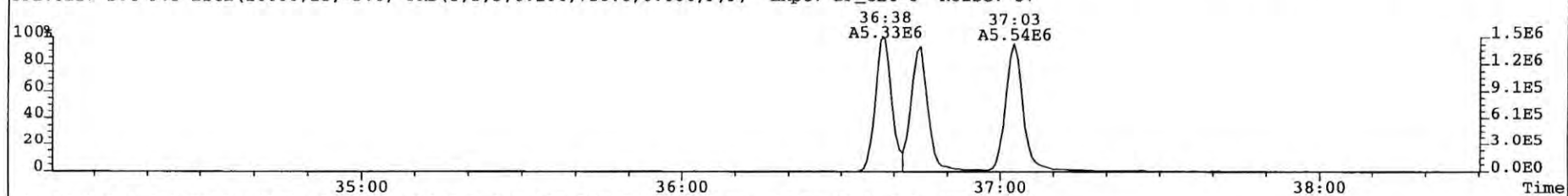
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5

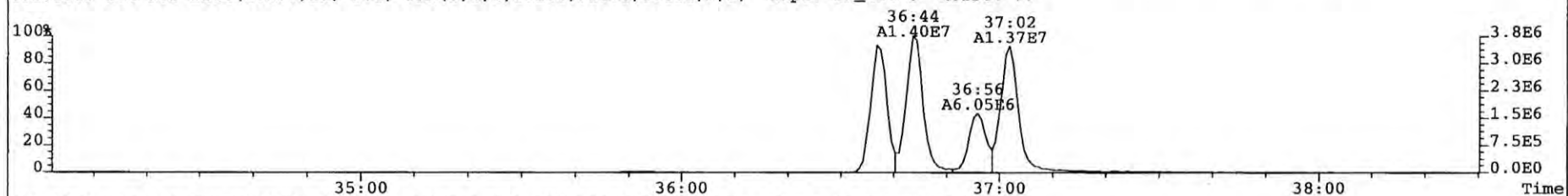
389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 57



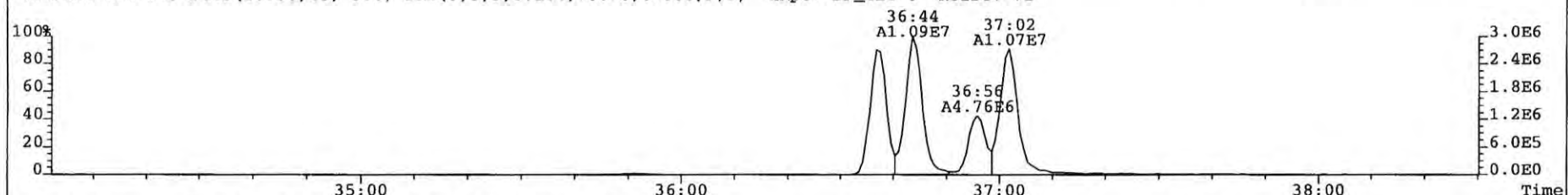
391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 57



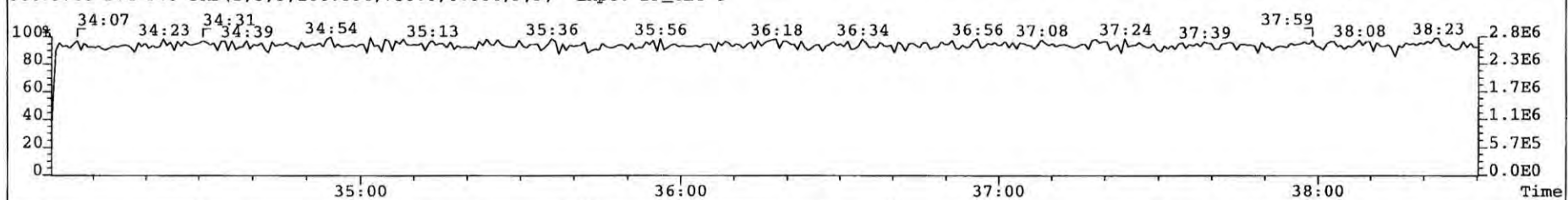
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 77



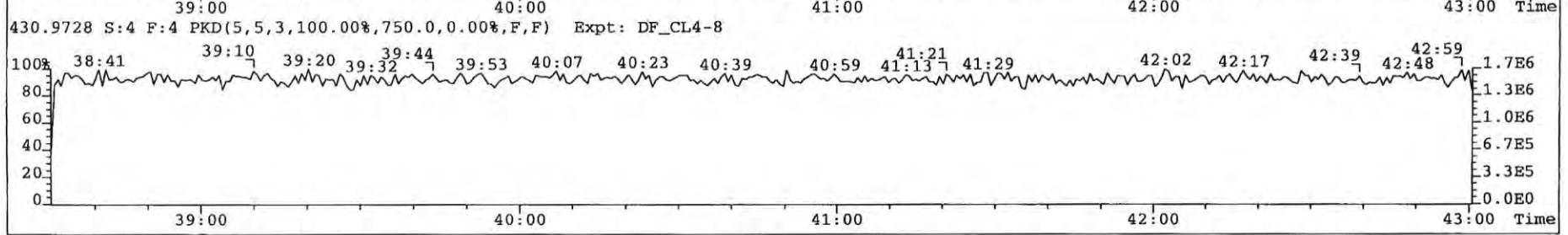
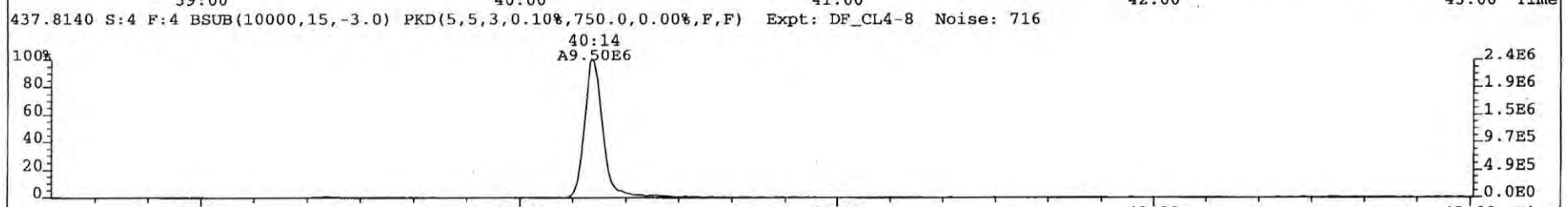
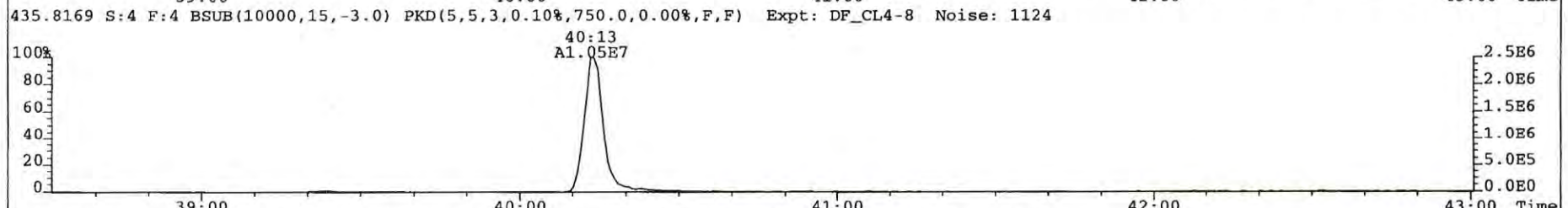
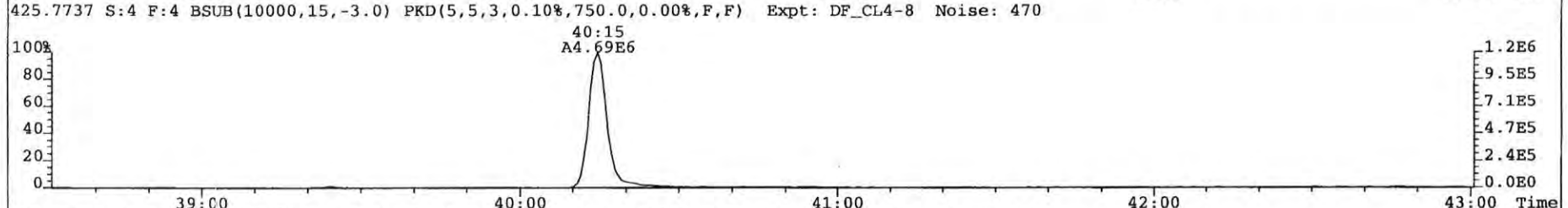
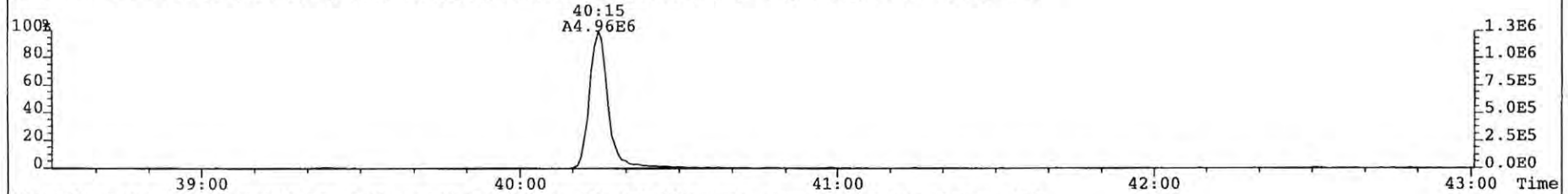
403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 71



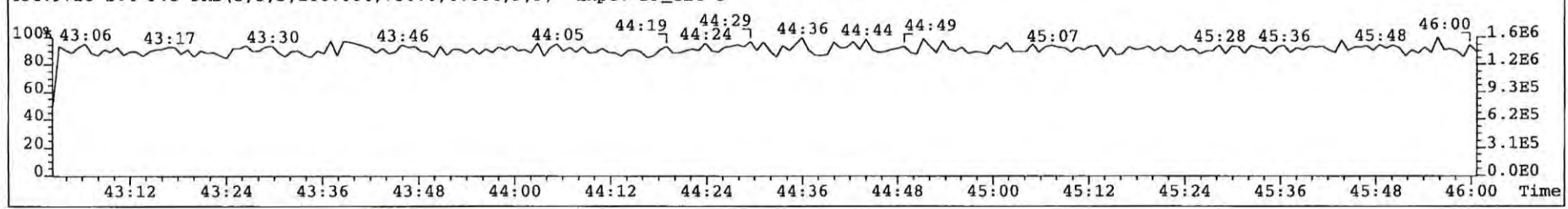
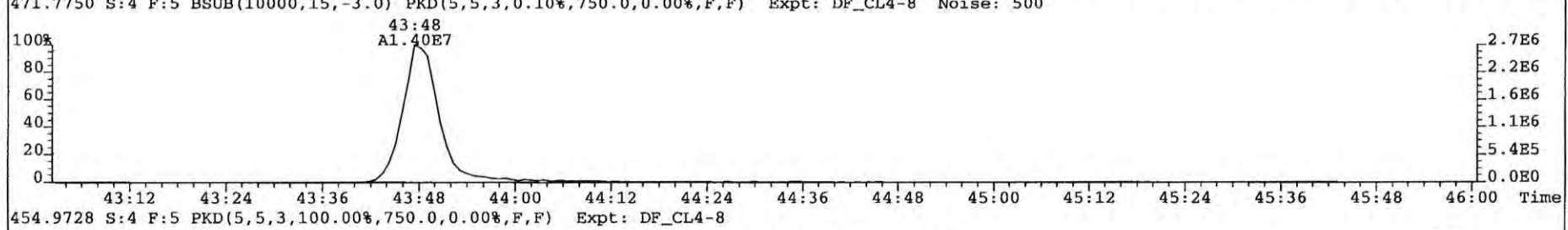
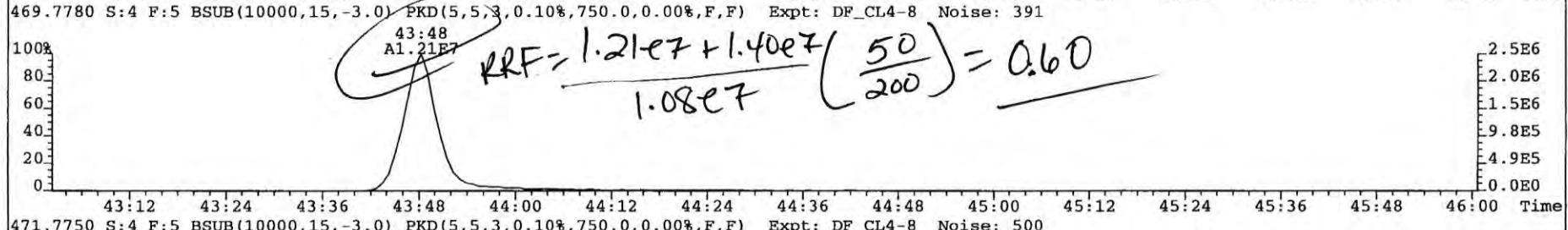
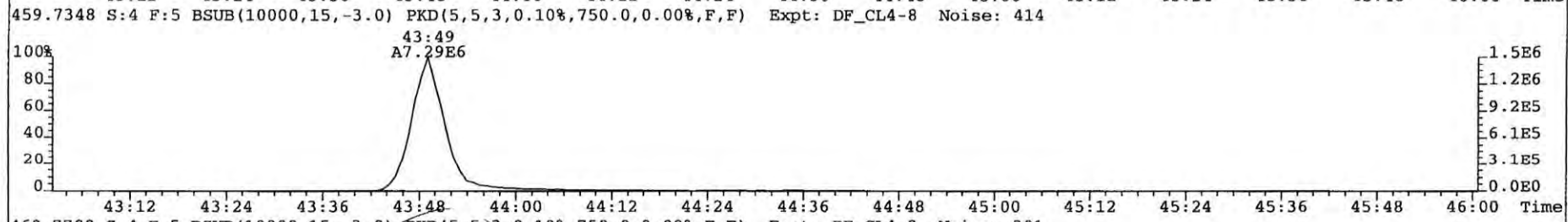
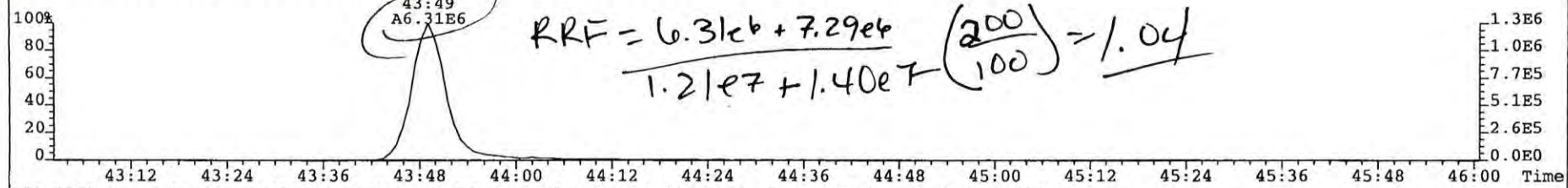
380.9760 S:4 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5  
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 543

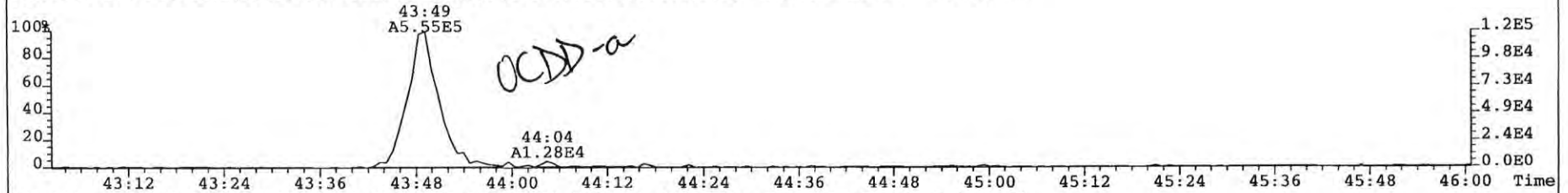


File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5  
 457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 151

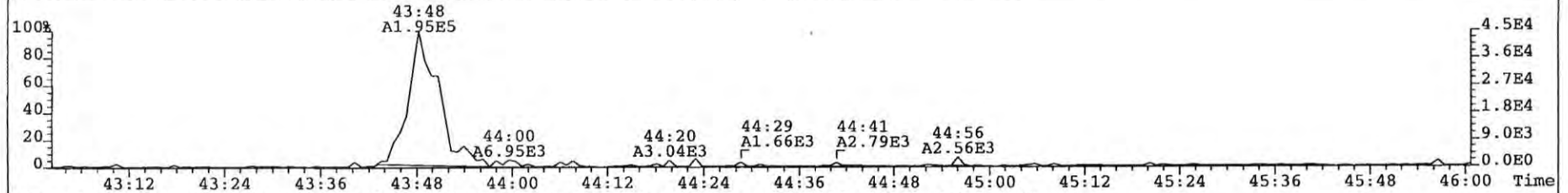




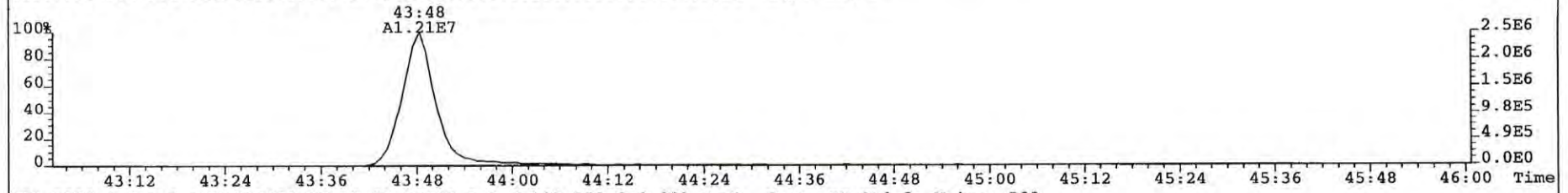
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5  
462.7352 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 87



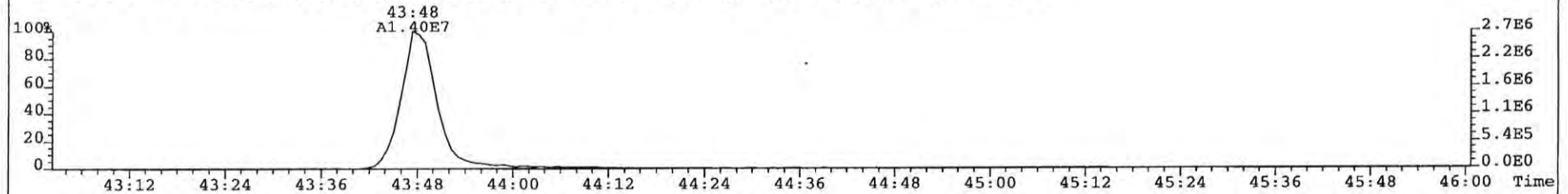
464.7322 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 58



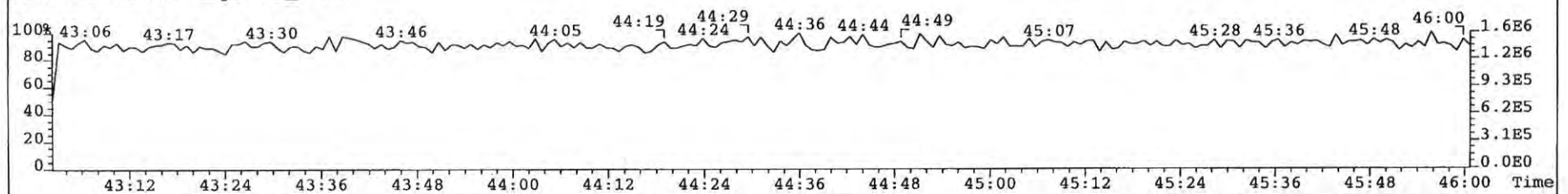
469.7780 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 391



471.7750 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 500



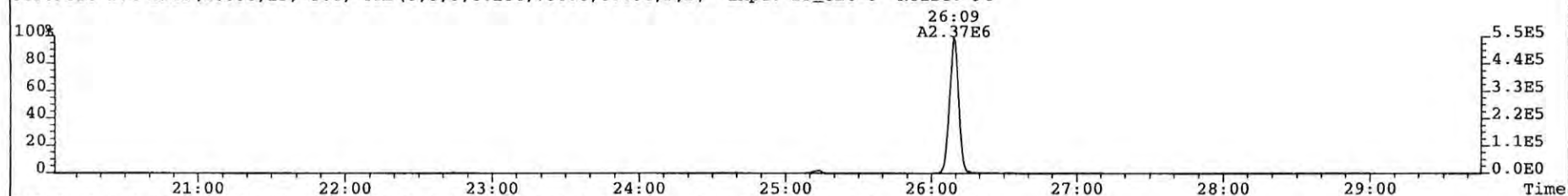
454.9728 S:4 F:5 Expt: DF\_CL4-8



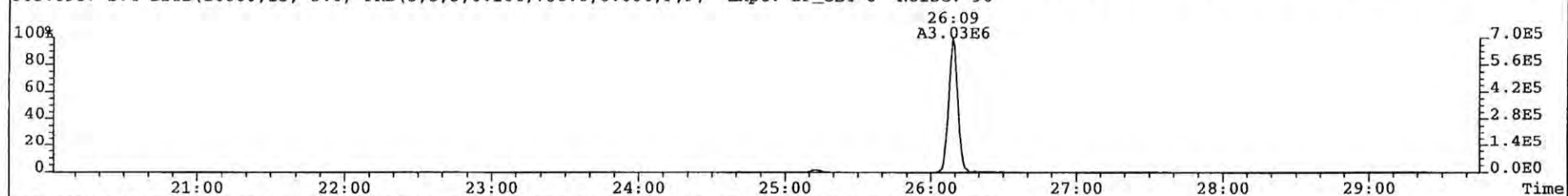
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5

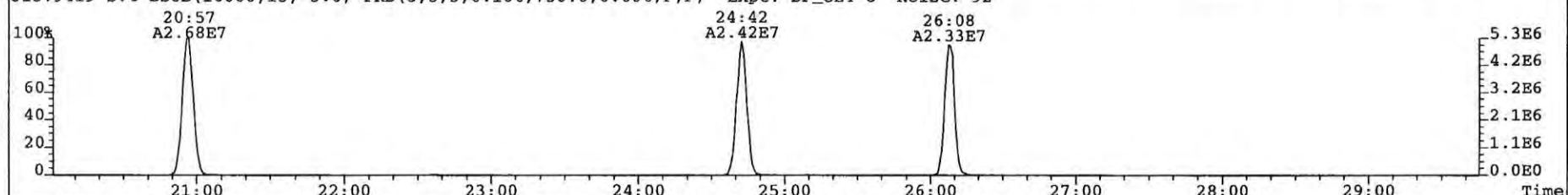
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 94



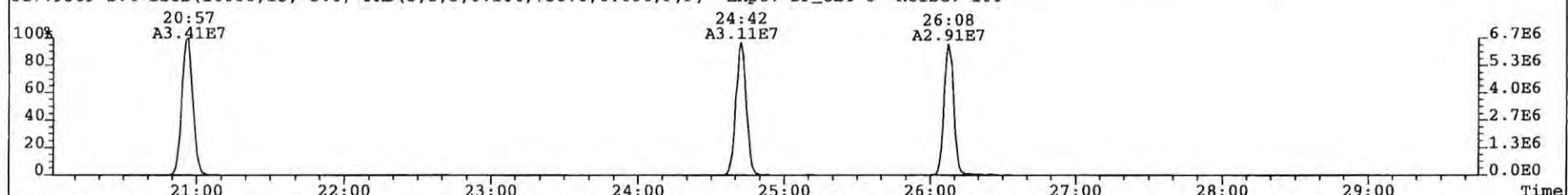
305.8987 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 96



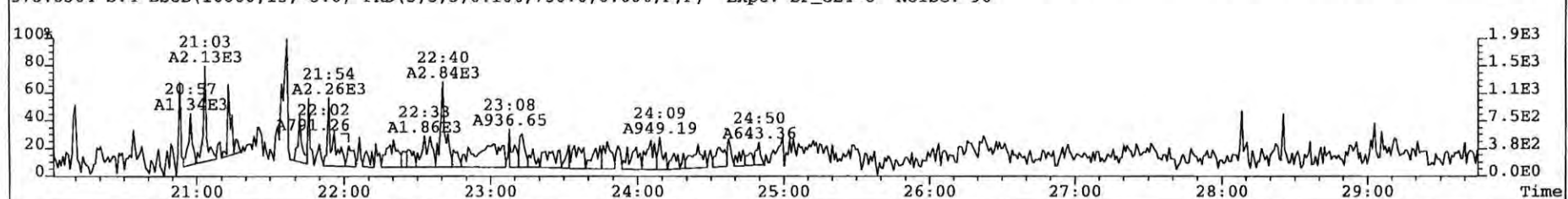
315.9419 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 92



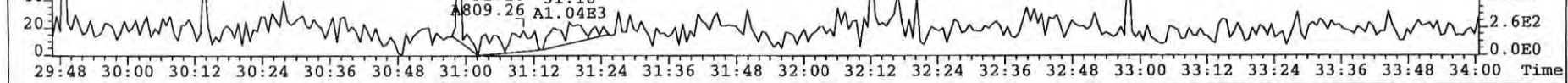
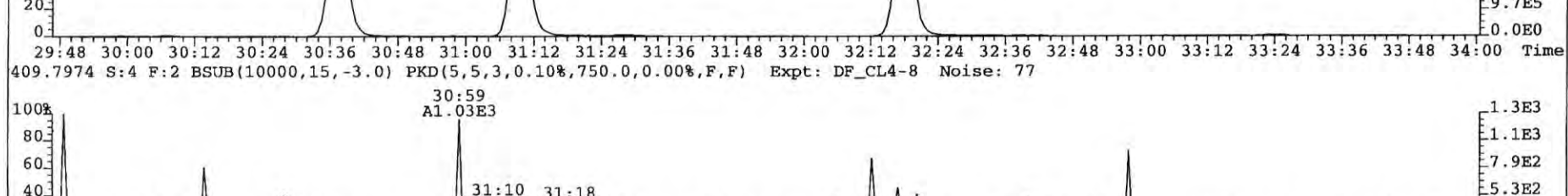
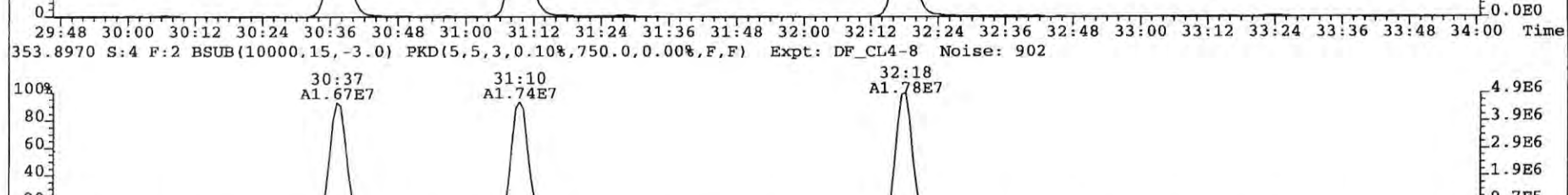
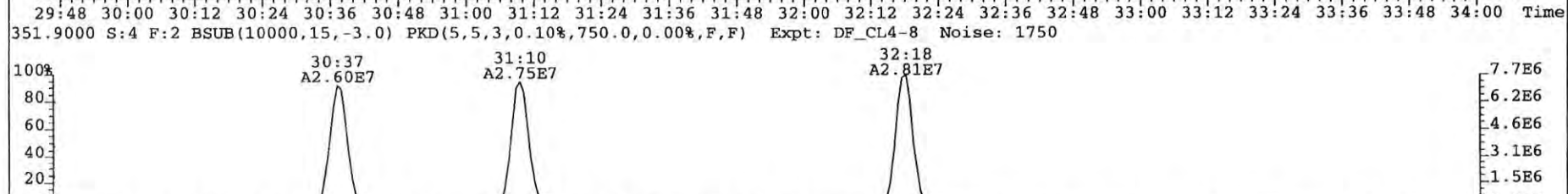
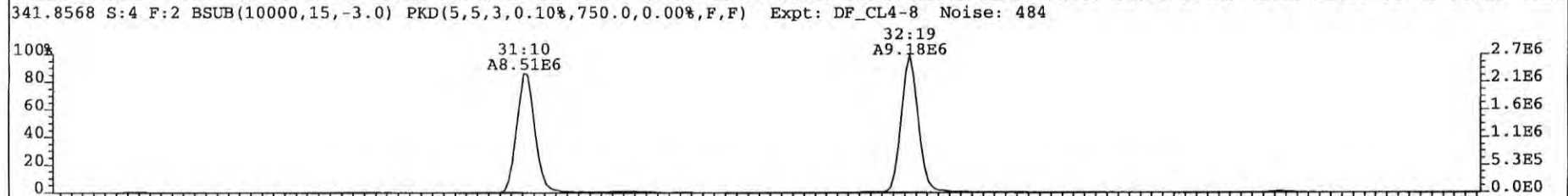
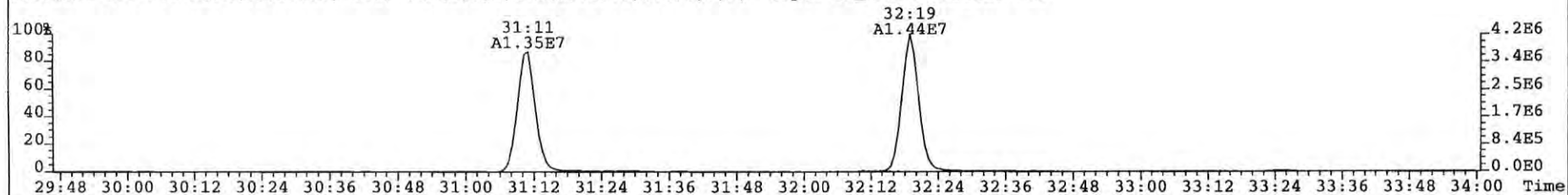
317.9389 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 100



375.8364 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 96

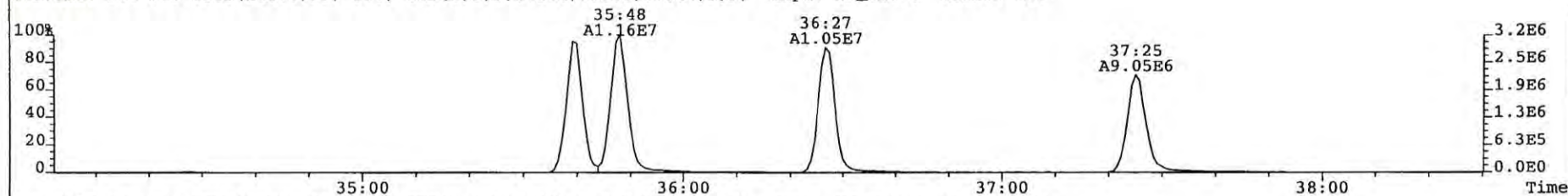


File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5  
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 718

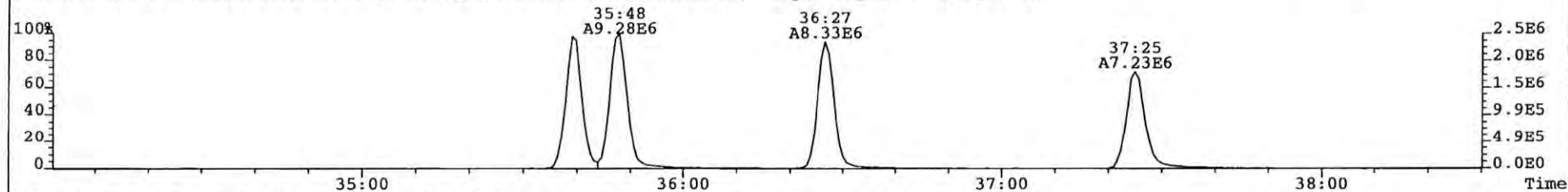




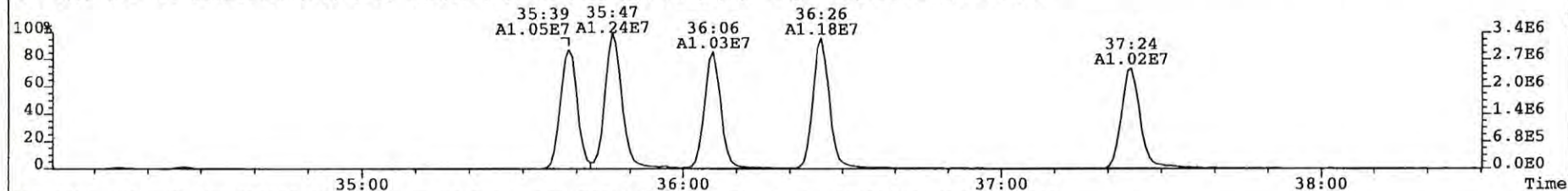
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5  
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 490



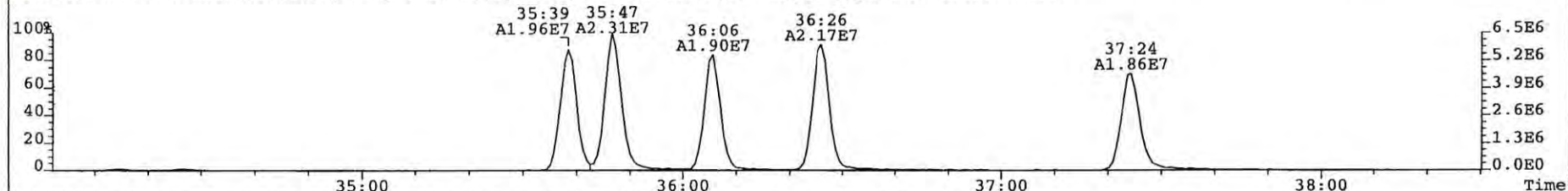
375.8178 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 390



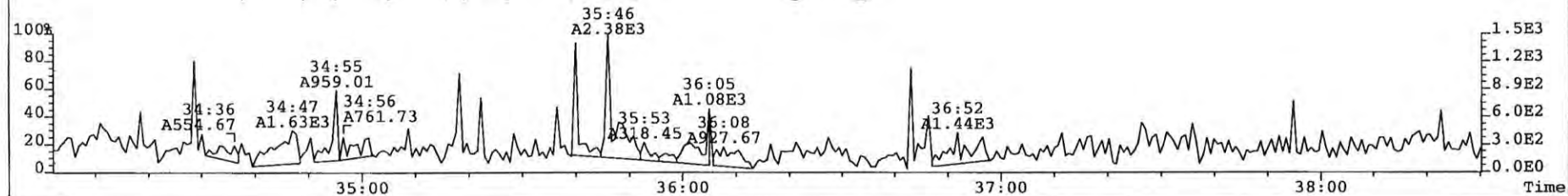
383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 935



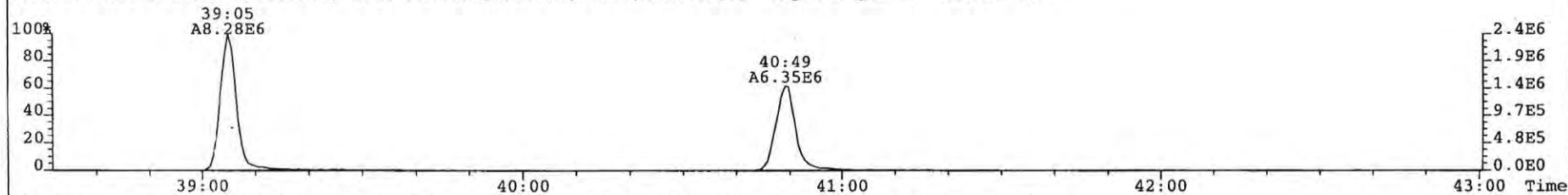
385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 1262



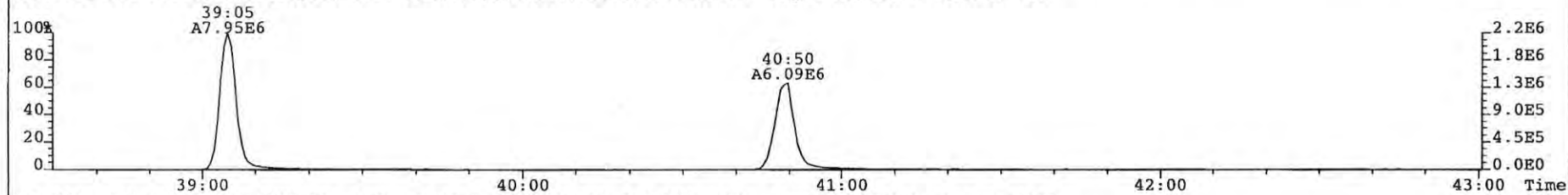
445.7555 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 80



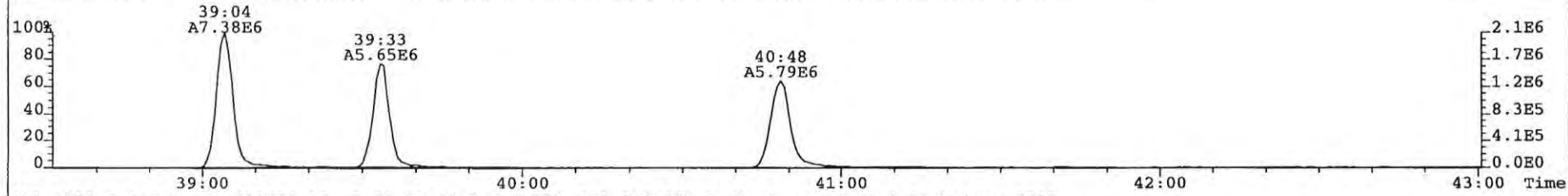
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5  
407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 787



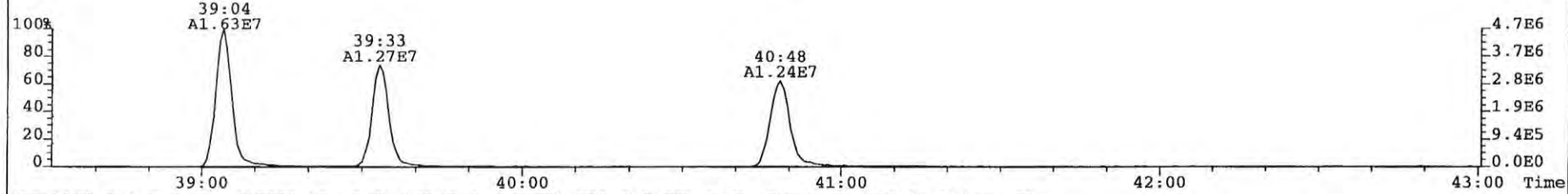
409.7788 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 628



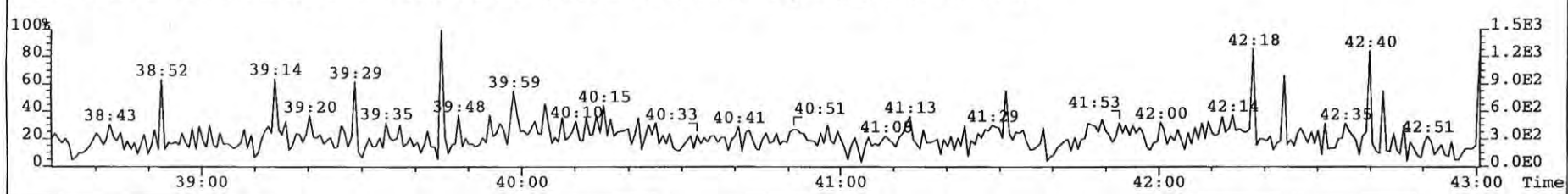
417.8253 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 1081



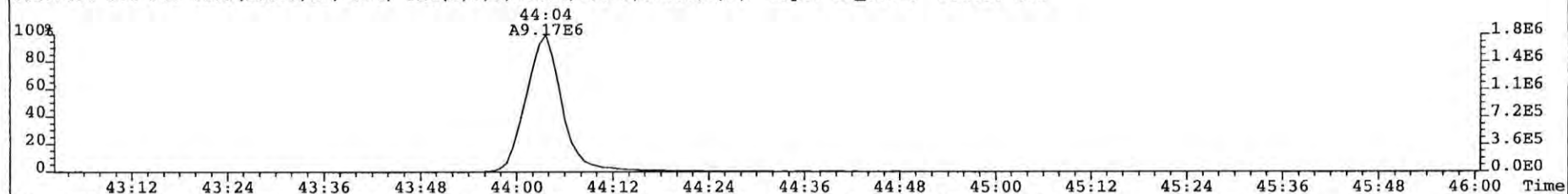
419.8220 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 2005



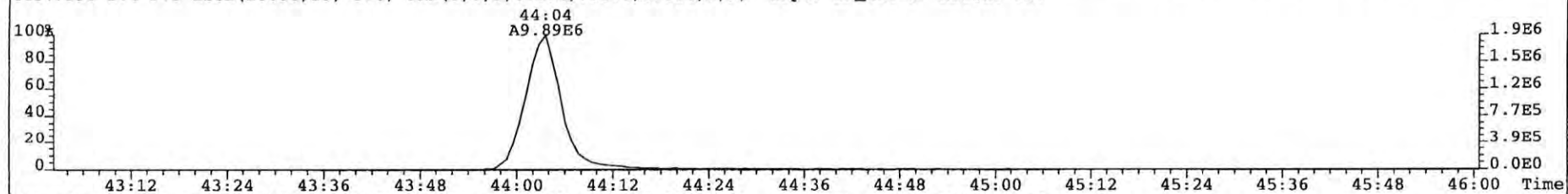
479.7165 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 95



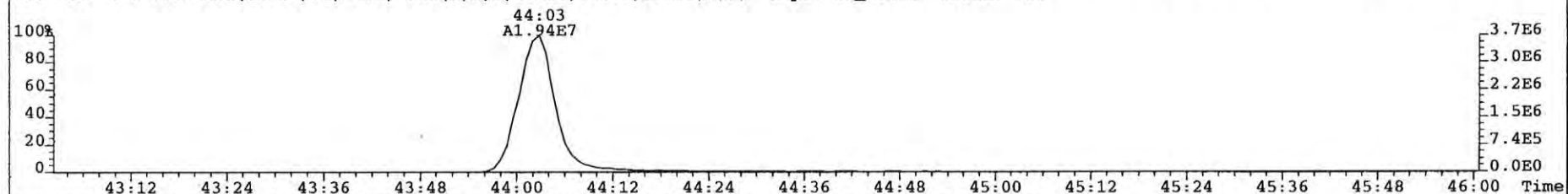
File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5  
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 133



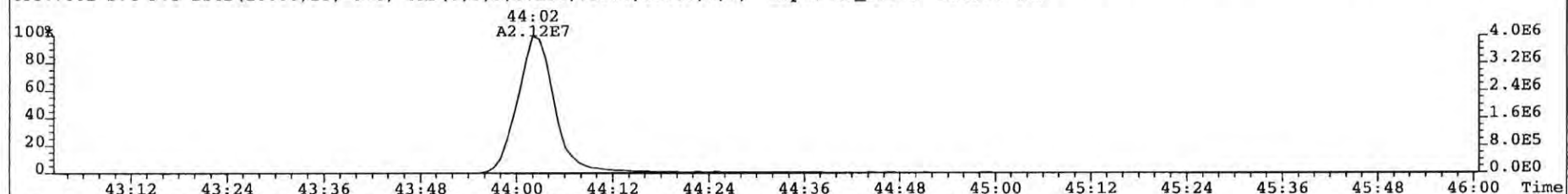
443.7398 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 367



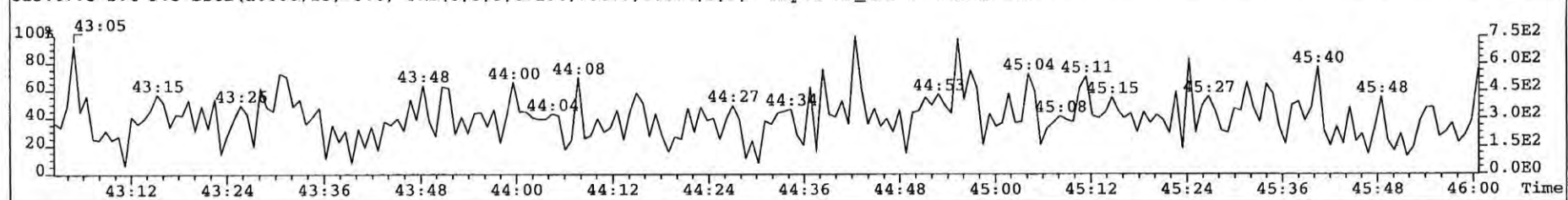
453.7830 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 766



455.7801 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 449

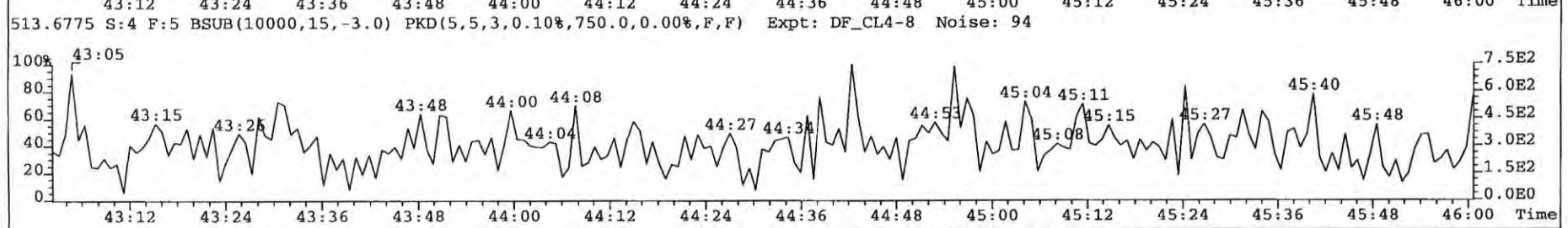
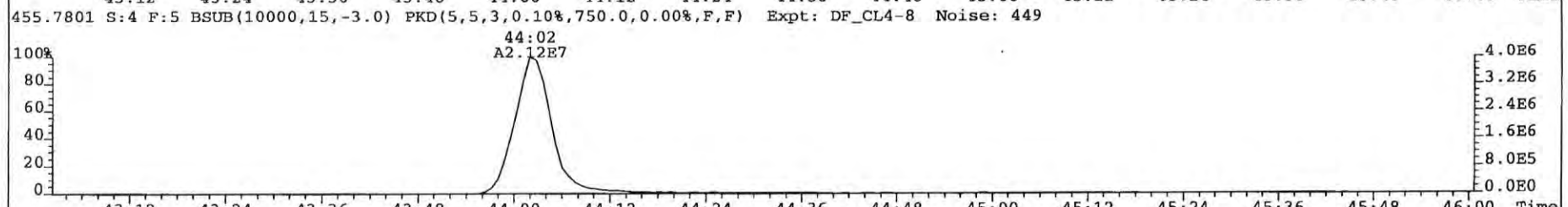
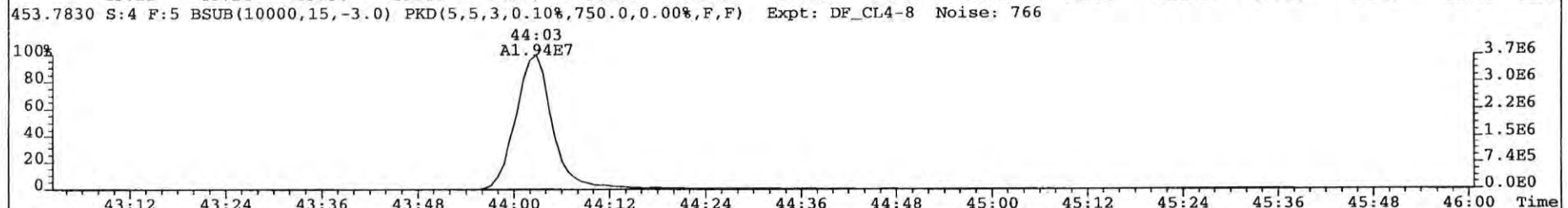
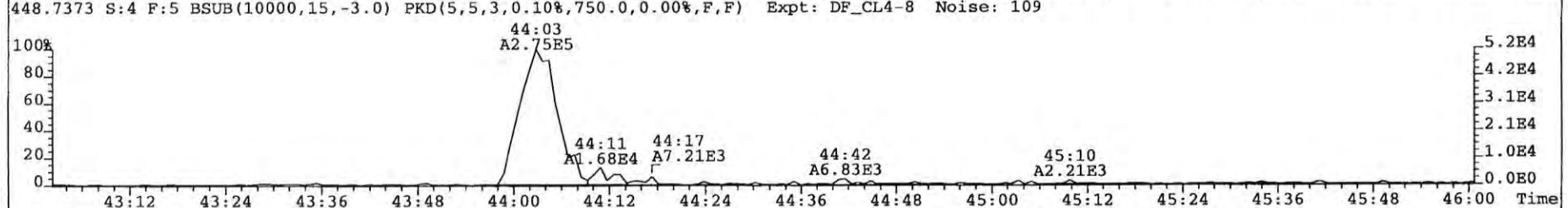
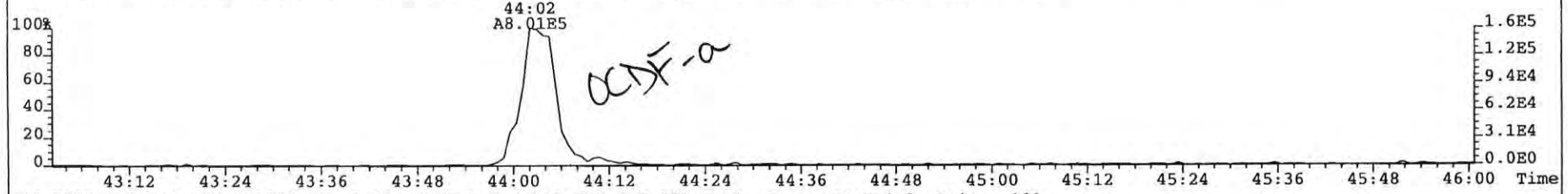


513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 94





File: 081225P1 Acq: 25-DEC-2008 12:42:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 4 Text: SIL7-25-4 NEW ICAL CS3 Vial# 19 File Text: AP DB5  
446.7402 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 102



TM 30 Dec 08

Calibration Summary

Analytical Perspectives

[Form: CAL]

Client ID: NEW ICAL CS4 ✓

Filename: 081225P1

S: 5 ✓

Acq: 25-DEC-08 13:32:54

Lab ID: SIL7-25-3

GC Column ID: db-5

ICal: MM1\_DF\_07012007A\_25DEC08 Wt/Vol: 1.000

Sample text: SIL7-25-3 NEW ICAL CS4

Vial: 20

40pg/ml

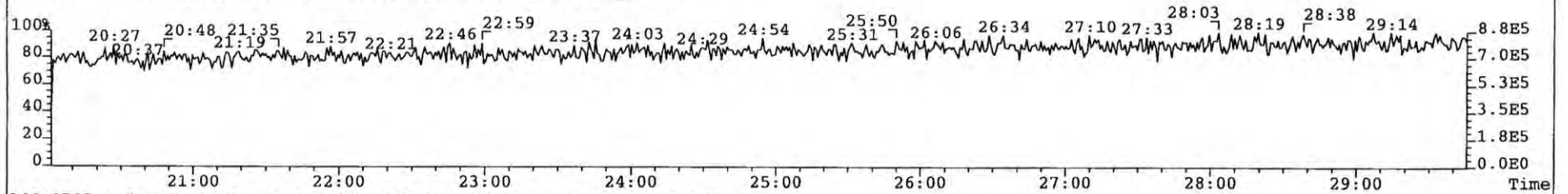
Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Ax 2,3,7,8-TCDD	40.00	1.55e+07	0.79 y	27:05	-	1.11✓
2	Ax 1,2,3,7,8-PeCDD	200.00	5.87e+07	1.63 y	32:41	-	1.01
3	Ax 1,2,3,4,7,8-HxCDD	200.00	5.10e+07	1.26 y	36:38	-	1.11
4	Ax 1,2,3,6,7,8-HxCDD	200.00	5.31e+07	1.26 y	36:45	-	0.99✓
5	Ax 1,2,3,7,8,9-HxCDD	200.00	5.42e+07	1.26 y	37:03	-	1.06
6	Ax 1,2,3,4,6,7,8-HpCDD	200.00	4.24e+07	1.06 y	40:15	-	1.02
7	Ax OCDD	400.00	6.10e+07	0.89 y	43:50	-	1.10✓
8	Ax2 OCDD-a	400.00	3.43e+06	2.60 y	43:49	-	0.06
9	Ax 2,3,7,8-TCDF	40.00	2.25e+07	0.79 y	26:09	-	1.06✓
10	Ax 1,2,3,7,8-PeCDF	200.00	9.44e+07	1.59 y	31:11	-	1.01
11	Ax 2,3,4,7,8-PeCDF	200.00	1.00e+08	1.58 y	32:19	-	1.04
12	Ax 1,2,3,4,7,8-HxCDF	200.00	7.89e+07	1.26 y	35:39	-	1.26✓
13	Ax 1,2,3,6,7,8-HxCDF	200.00	9.16e+07	1.23 y	35:48	-	1.21
14	Ax 2,3,4,6,7,8-HxCDF	200.00	8.09e+07	1.24 y	36:27	-	1.14
15	Ax 1,2,3,7,8,9-HxCDF	200.00	7.02e+07	1.26 y	37:26	-	1.15✓
16	Ax 1,2,3,4,6,7,8-HpCDF	200.00	6.89e+07	1.04 y	39:05	-	1.40
17	Ax 1,2,3,4,7,8,9-HpCDF	200.00	5.43e+07	1.06 y	40:50	-	1.36
18	Ax OCDF	400.00	8.51e+07	0.91 y	44:04	-	0.96✓
19	Ax2 OCDF-a	400.00	4.71e+06	2.64 y	44:04	-	0.05
20	ES 13C-2,3,7,8-TCDD	100.00	3.48e+07	0.83 y	27:04	-	0.98✓
21	ES 13C-1,2,3,7,8-PeCDD	100.00	2.89e+07	1.66 y	32:40	-	0.81
22	ES 13C-1,2,3,4,7,8-HxCDD	100.00	2.29e+07	1.25 y	36:37	-	1.01
23	ES 13C-1,2,3,6,7,8-HxCDD	100.00	2.67e+07	1.26 y	36:44	-	1.18✓
24	ES 13C-1,2,3,7,8,9-HxCDD	100.00	2.56e+07	1.28 y	37:02	-	1.13
25	ES 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.08e+07	1.06 y	40:14	-	0.92
26	ES 13C-OCDD	200.00	2.77e+07	0.88 y	43:49	-	0.61✓
27	ES 13C-2,3,7,8-TCDF	100.00	5.31e+07	0.80 y	26:08	-	0.95✓
28	ES 13C-1,2,3,7,8-PeCDF	100.00	4.66e+07	1.59 y	31:10	-	0.83
29	ES 13C-2,3,4,7,8-PeCDF	100.00	4.83e+07	1.56 y	32:18	-	0.86
30	ES 13C-1,2,3,4,7,8-HxCDF	100.00	3.13e+07	0.53 y	35:39	-	1.38✓
31	ES 13C-1,2,3,6,7,8-HxCDF	100.00	3.80e+07	0.55 y	35:47	-	1.68
32	ES 13C-2,3,4,6,7,8-HxCDF	100.00	3.54e+07	0.54 y	36:26	-	1.57
33	ES 13C-1,2,3,7,8,9-HxCDF	100.00	3.05e+07	0.53 y	37:24	-	1.35✓
34	ES 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.46e+07	0.45 y	39:04	-	1.09 ✓ calc.
35	ES 13C-1,2,3,4,7,8,9-HpCDF	100.00	1.99e+07	0.44 y	40:49	-	0.88
36	ES 13C-OCDF	200.00	4.44e+07	0.89 y	44:03	-	0.98✓
37	CS 37C1-2,3,7,8-TCDD	40.00	1.41e+07		27:05	-	0.99✓
38	CS 13C-1,2,3,4,7-PeCDD	100.00	2.76e+07	1.68 y	32:10	-	0.78
39	CS 13C-1,2,3,4,6-PeCDF	100.00	4.52e+07	1.57 y	30:37	-	0.81
40	CS 13C-1,2,3,4,6,9-HxCDF	100.00	3.11e+07	0.53 y	36:06	-	1.38✓
41	CS 13C-1,2,3,4,6,8,9-HpCDF	100.00	2.05e+07	0.46 y	39:33	-	0.91
42	NA n/a	100.00	*	* n	NotF»	-	*
43	JS/RT 13C-1,2,3,4-TCDD	100.00	3.56e+07	0.84 y	26:24	3.56e+05	-
44	JS 13C-1,2,3,4-TCDF	100.00	5.61e+07	0.77 y	24:42	5.61e+05	-
45	JS/RT 13C-1,2,3,4,6,7-HxCDD	50.00	1.13e+07	1.30 y	36:56	2.26e+05	-

Analyst: WJ  
Date: 23 Dec 08

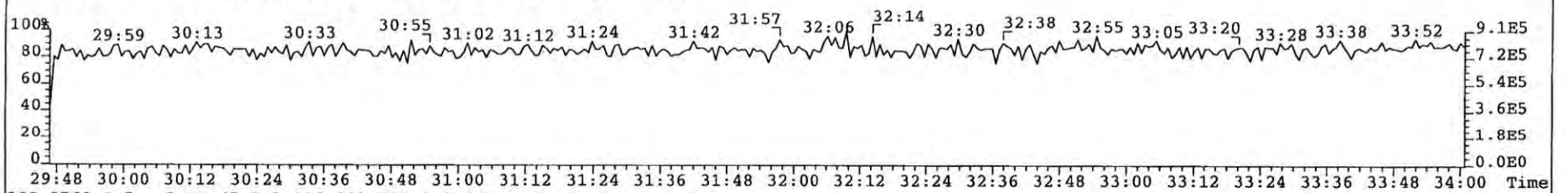
46	SS	37Cl-2,3,7,8-TCDD	40.00	1.41e+07		27:05	-	1.01 ✓
47	SS	13C-1,2,3,4,7-PeCDD	100.00	2.76e+07	1.68 y	32:10	-	0.95
48	SS	13C-1,2,3,4,6-PeCDF	100.00	4.52e+07	1.57 y	30:37	-	0.97 ✓
49	SS	13C-1,2,3,4,6,9-HxCDF	100.00	3.11e+07	0.53 y	36:06	-	0.82
50	SS	13C-1,2,3,4,6,8,9-HpCDF	100.00	2.05e+07	0.46 y	39:33	-	0.83 ✓
51	SBS	2,4,6,8-TCDF	-	-	- n	-	-	1.06 ✓
52	Ay	1,3,6,8-TCDD	-	-	- n	-	-	1.11 ✓
53	Ay	1,2,3,9-TCDD	-	-	- n	-	-	1.11
54	Ay	1,2,8,9-TCDD	-	-	- n	-	-	1.11
55	Ay	1,2,4,7,9-PeCDD	-	-	- n	-	-	1.01
56	Ay	1,2,3,8,9-PeCDD	-	-	- n	-	-	1.01
57	Ay	1,2,4,6,7,9-HxCDD	-	-	- n	-	-	1.05 ✓
58	Ay	1,2,3,4,6,7,9-HpCDD	-	-	- n	-	-	1.02
59	Ay	1,3,6,8-TCDF	-	-	- n	-	-	1.06
60	Ay	2,3,4,8-TCDF	-	-	- n	-	-	1.06
61	Ay	1,2,8,9-TCDF	-	-	- n	-	-	1.06
62	Ay	1,3,4,6,8-PeCDF	-	-	- n	-	-	1.06 ✓
63	Ay	1,2,3,8,9-PeCDF	-	-	- n	-	-	1.03
64	Ay	1,2,3,4,6,8-HxCDF	-	-	- n	-	-	1.19 ✓
65	Tot	Total Tetra-Dioxins	-	-	- n	-	-	1.11
66	Tot	Total Penta-Dioxins	-	-	- n	-	-	1.01
67	Tot	Total Hexa-Dioxins	-	-	- n	-	-	1.05
68	Tot	Total Hepta-Dioxins	-	-	- n	-	-	1.02
69	Tot	Total Tetra-Furans	-	-	- n	-	-	1.06
70	Tot	Total Penta-Furans	-	-	- n	-	-	1.03
71	Tot	Total Hexa-Furans	-	-	- n	-	-	1.19
72	Tot	Total Hepta-Furans	-	-	- n	-	-	1.38
73	Tot	TCDD EMPC	-	-	- n	-	-	1.11
74	Tot	PeCDD EMPC	-	-	- n	-	-	1.01
75	Tot	HxCDD EMPC	-	-	- n	-	-	1.05
76	Tot	HpCDD EMPC	-	-	- n	-	-	1.02
77	Tot	TCDF EMPC	-	-	- n	-	-	1.06
78	Tot	PeCDF EMPC	-	-	- n	-	-	1.03
79	Tot	HxCDF EMPC	-	-	- n	-	-	1.19
80	Tot	HpCDF EMPC	-	-	- n	-	-	1.38
81	AS	13C-1,3,6,8-TCDD	100.00	3.84e+07	0.81 y	23:08	-	1.08 ✓
82	AS	13C-1,3,6,8-TCDF	100.00	6.06e+07	0.79 y	20:56	-	1.08
83	DPE	HxCDPE	-	4.81e+03		27:39	-	-
84	DPE	HpCDPE	-	1.99e+04		29:56	-	-
85	DPE	OCDF	-	6.14e+03		37:57	-	-
86	DPE	NCDPE	-	4.79e+03		38:52	-	-
87	DPE	DCDF	-	1.55e+03		44:56	-	-
88	LMC	Fn1 check mass	-	*		NotF>	-	-
89	LMC	Fn2 check mass	-	*		NotF>	-	-
90	LMC	Fn3 check mass	-	*		NotF>	-	-
91	LMC	Fn4 check mass	-	*		NotF>	-	-
92	LMC	Fn5 check mass	-	*		NotF>	-	-



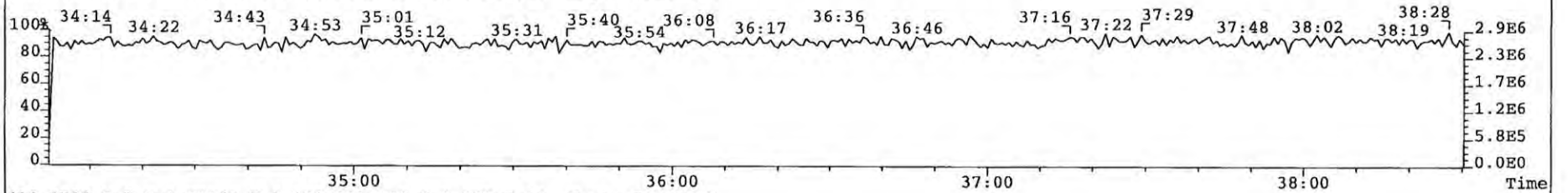
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5  
316.9824 S:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



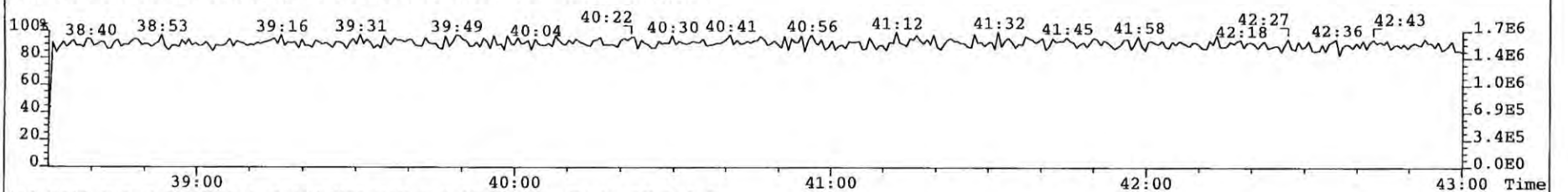
366.9792 S:5 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



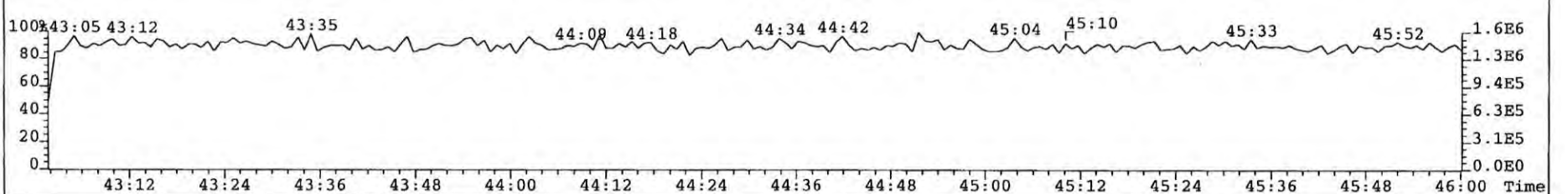
380.9760 S:5 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



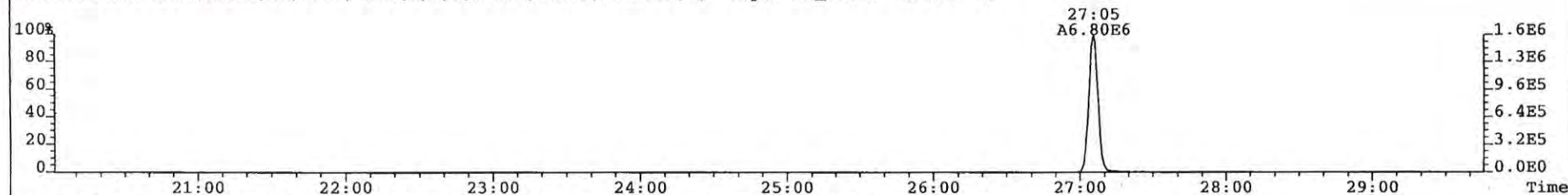
430.9728 S:5 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



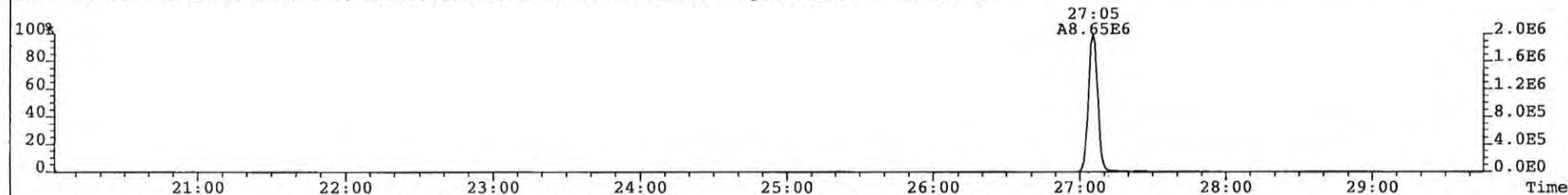
454.9728 S:5 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



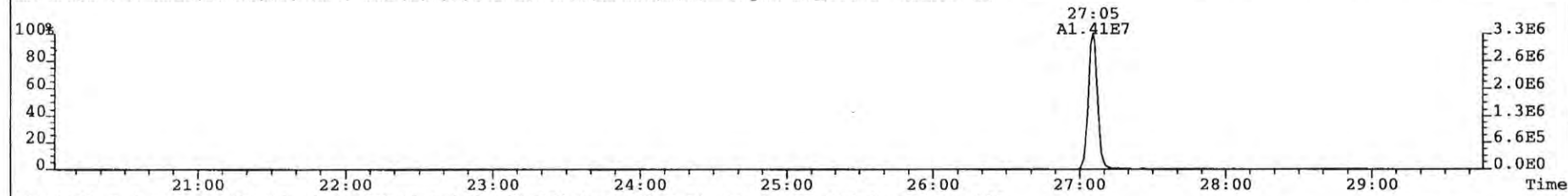
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5  
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 93



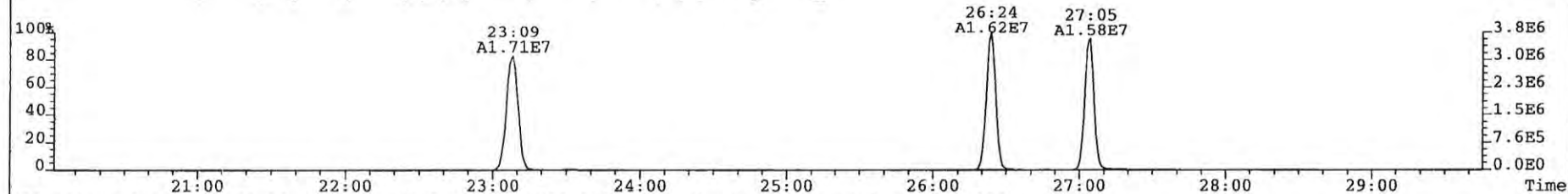
321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 84



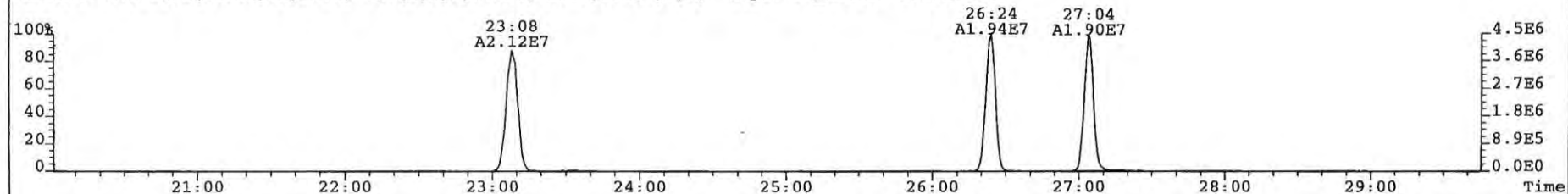
327.8850 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 88



331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 102



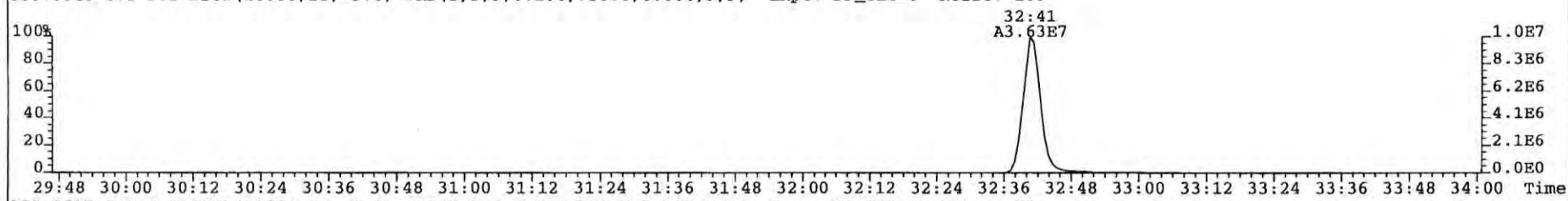
333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 104



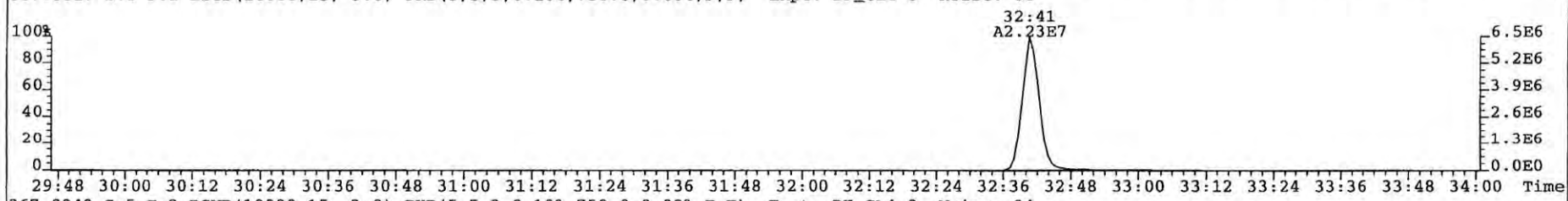
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5

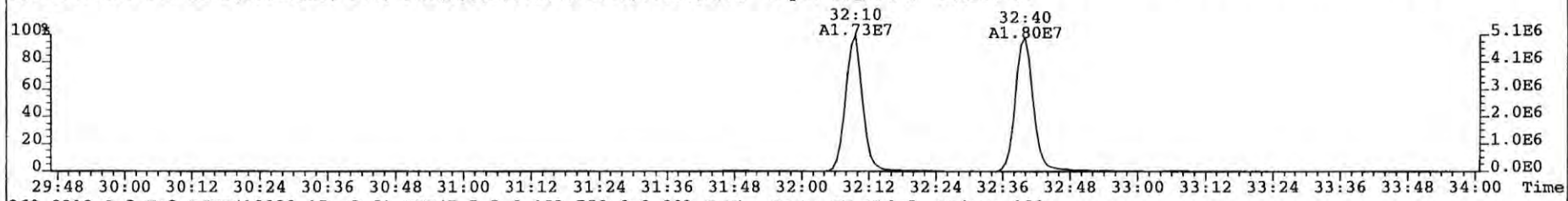
355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 108



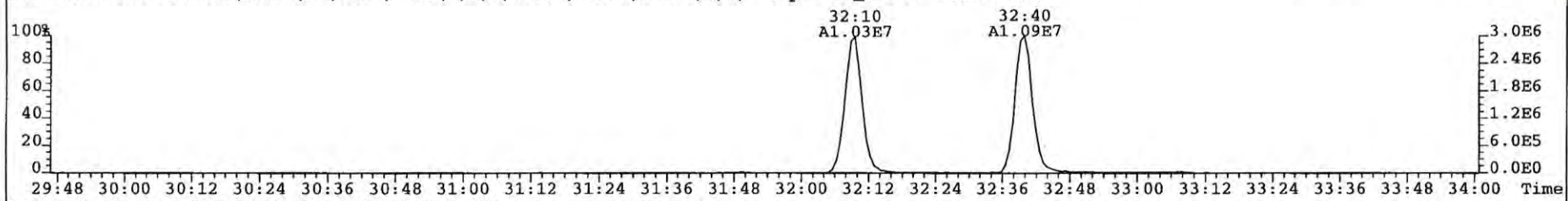
357.8517 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 80



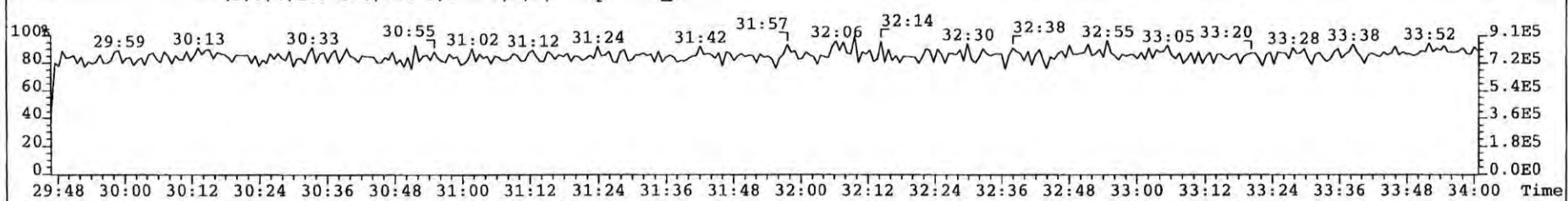
367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 94



369.8919 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 100



366.9792 S:5 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

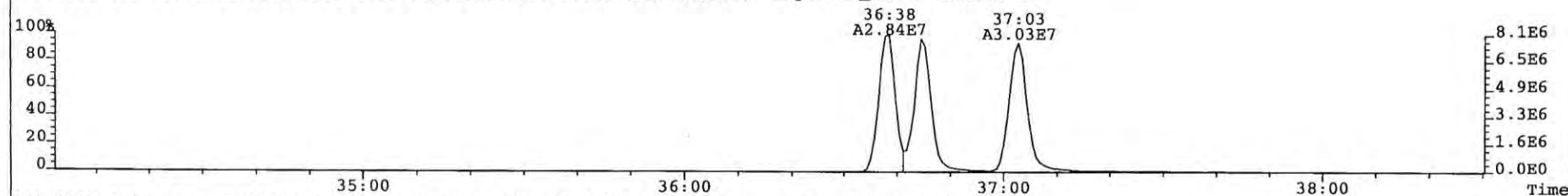




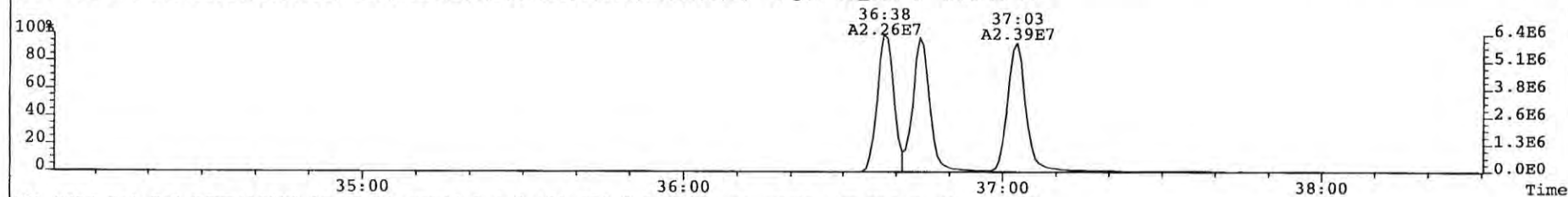
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5

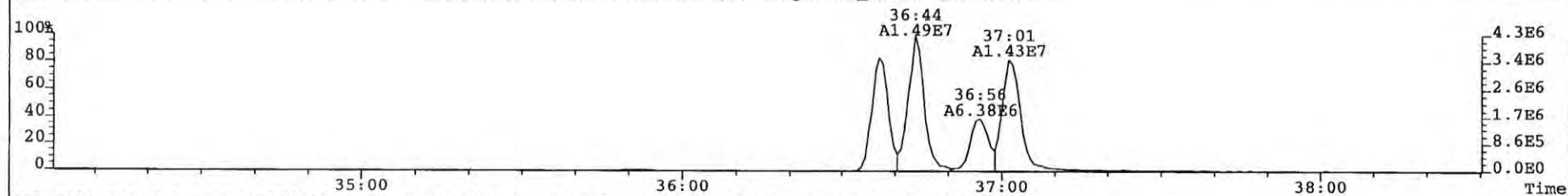
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 80



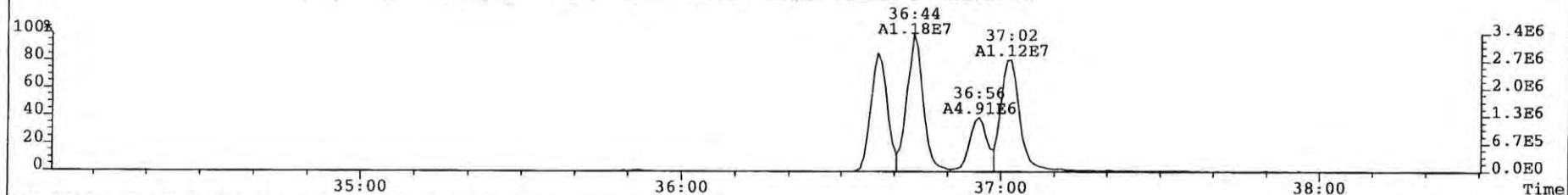
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 77



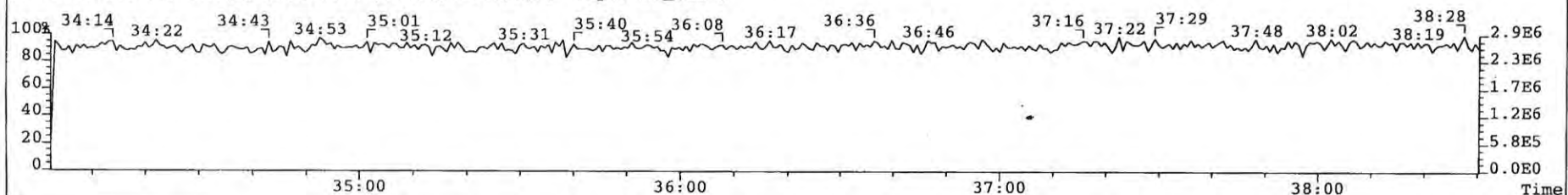
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 76



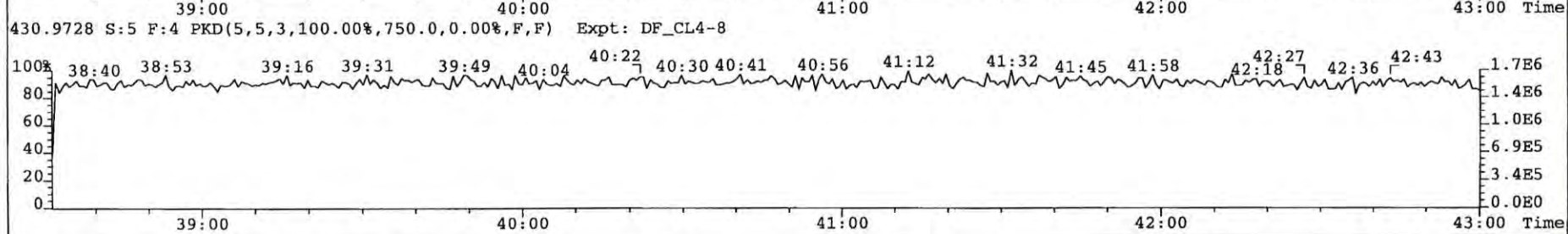
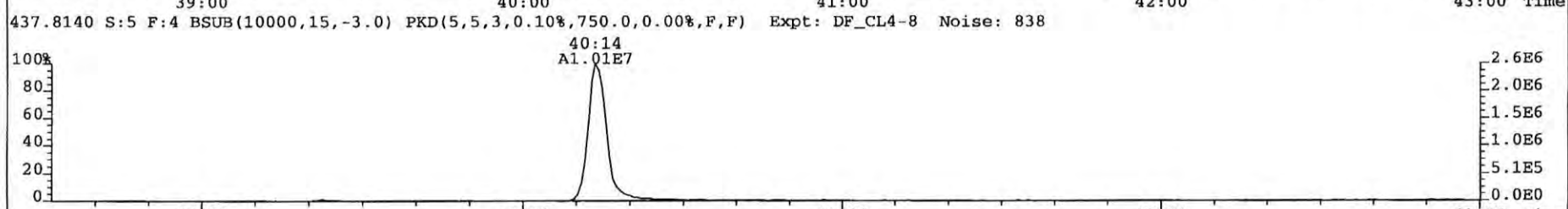
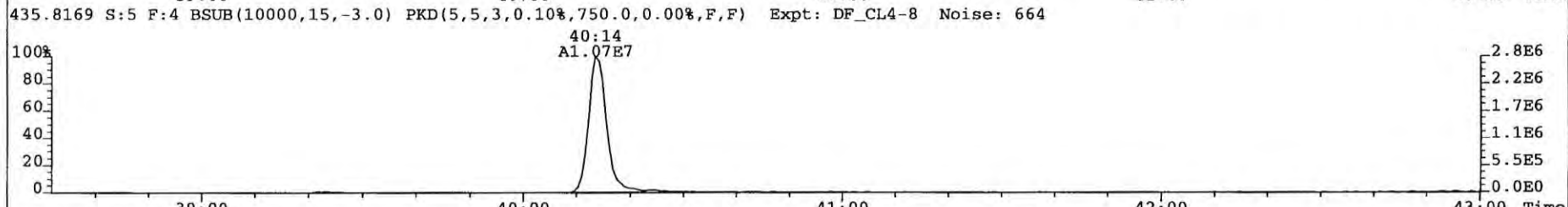
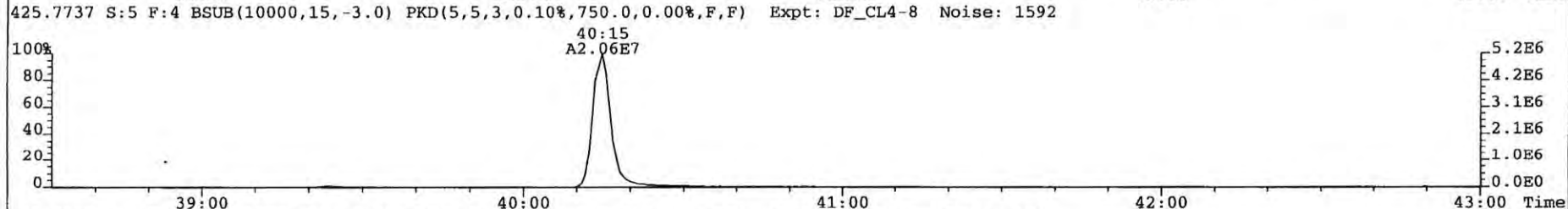
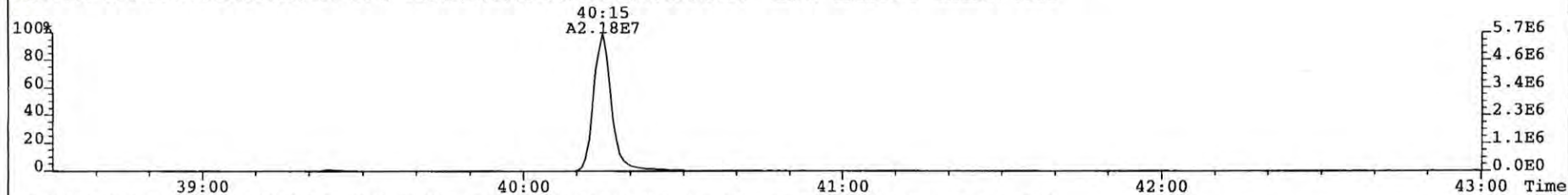
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 82



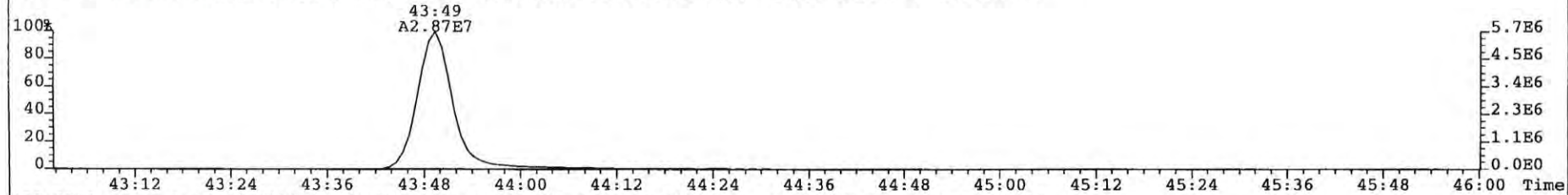
380.9760 S:5 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



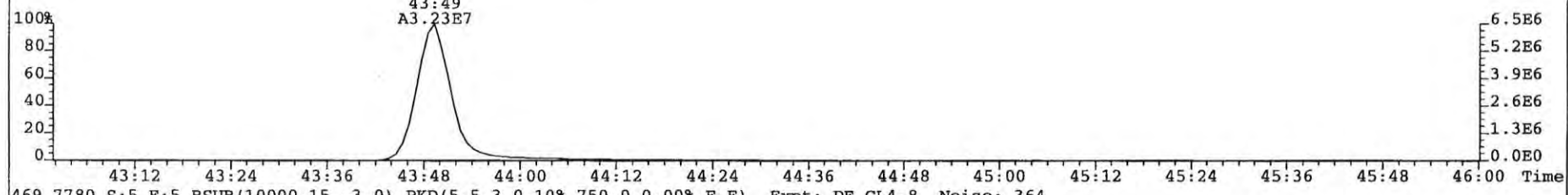
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5  
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 1152



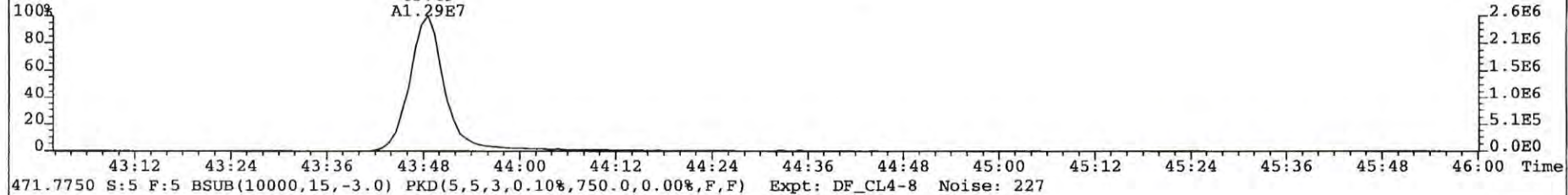
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5  
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 517



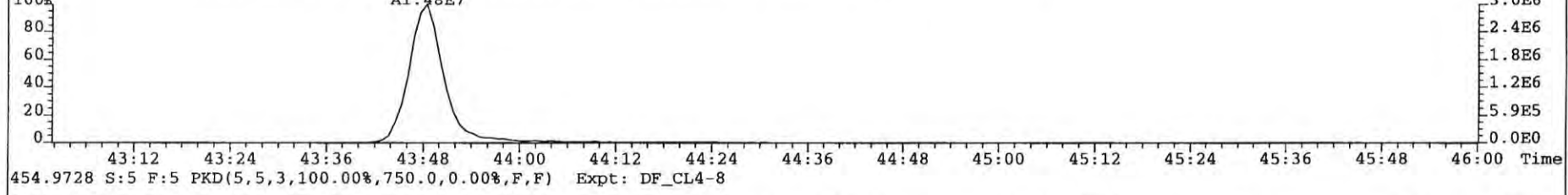
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 621



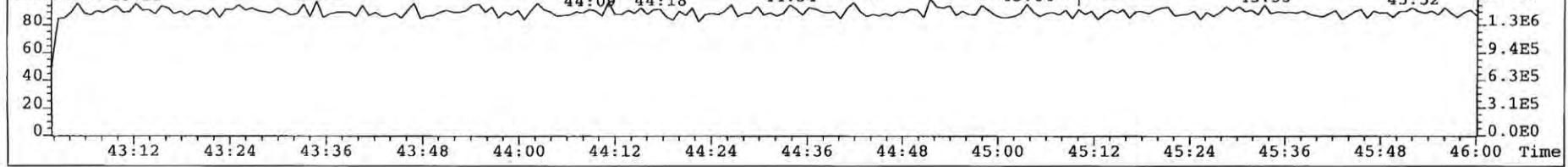
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 364



471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 227

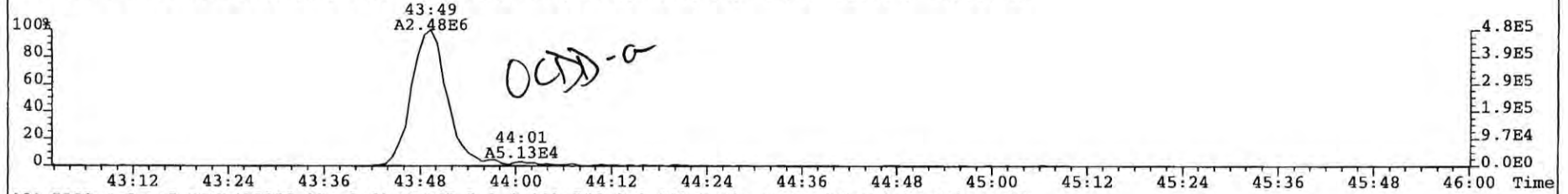


454.9728 S:5 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

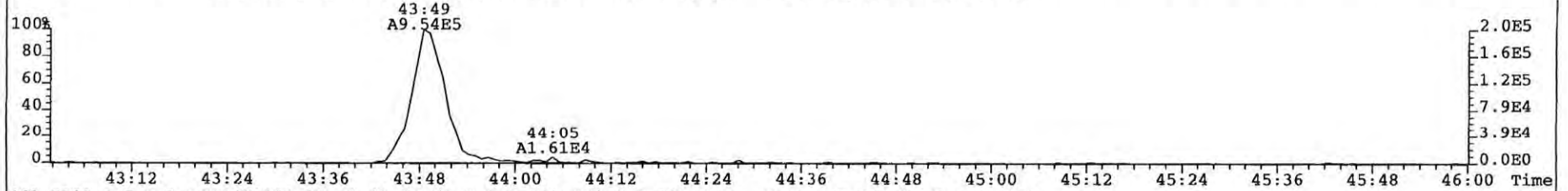




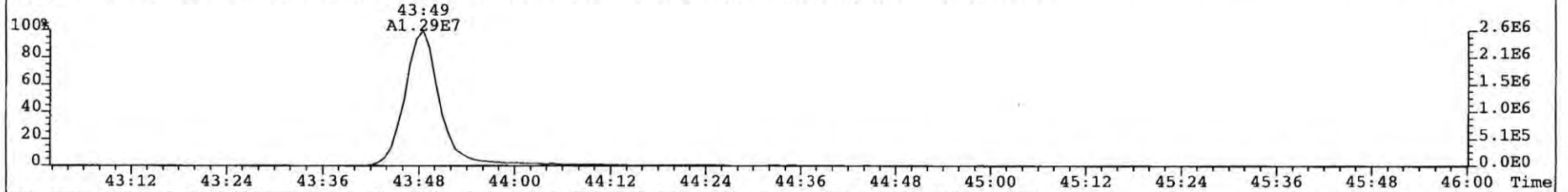
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5  
462.7352 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 63



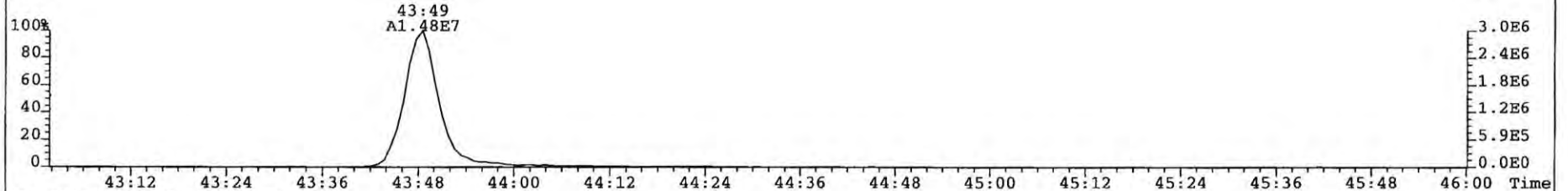
464.7322 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 82



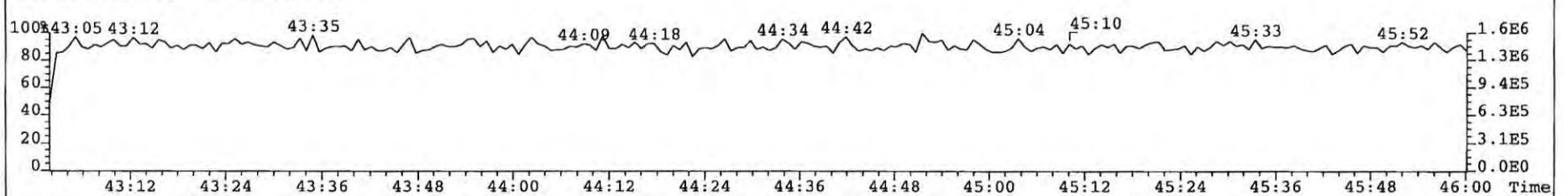
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 364



471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 227



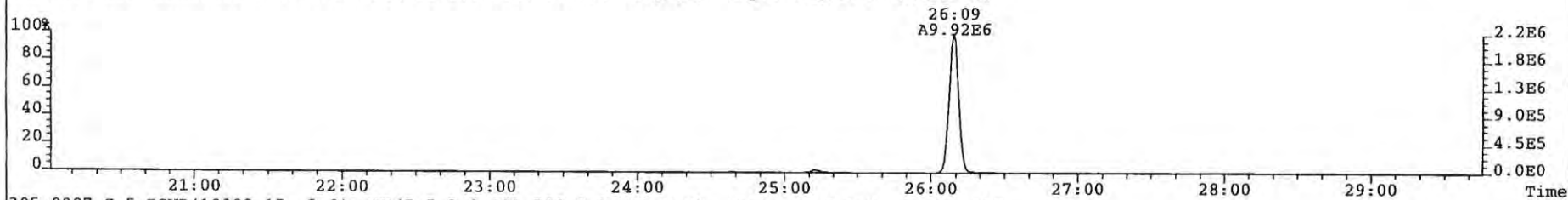
454.9728 S:5 F:5 Expt: DF\_CL4-8



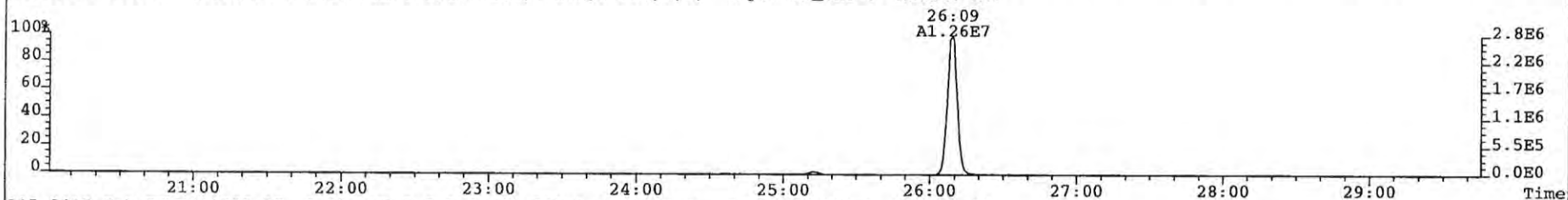
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5

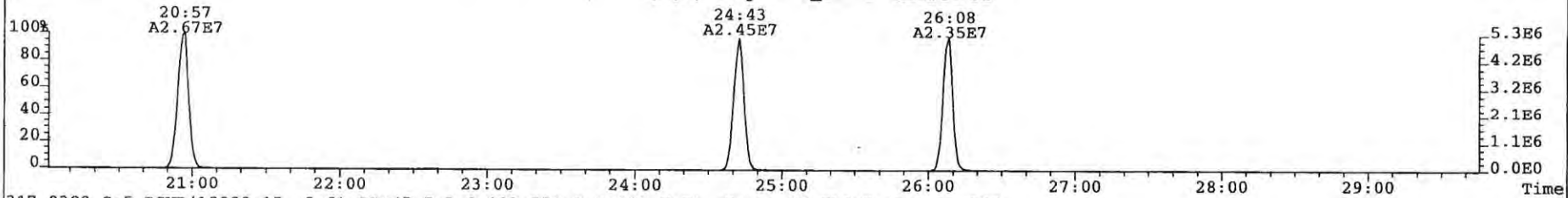
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 99



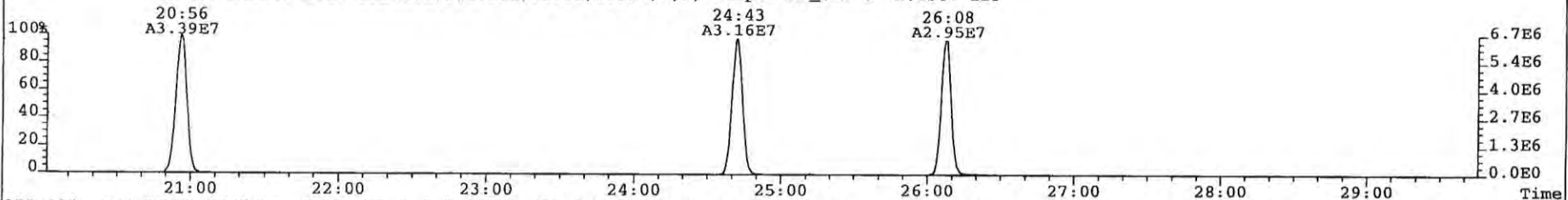
305.8987 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 107



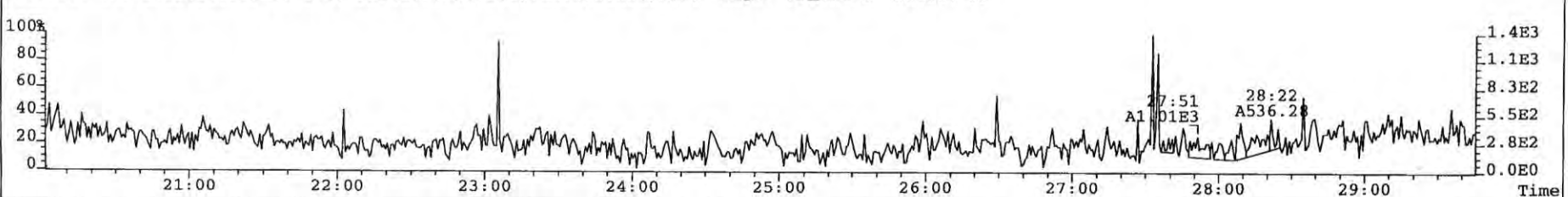
315.9419 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 92



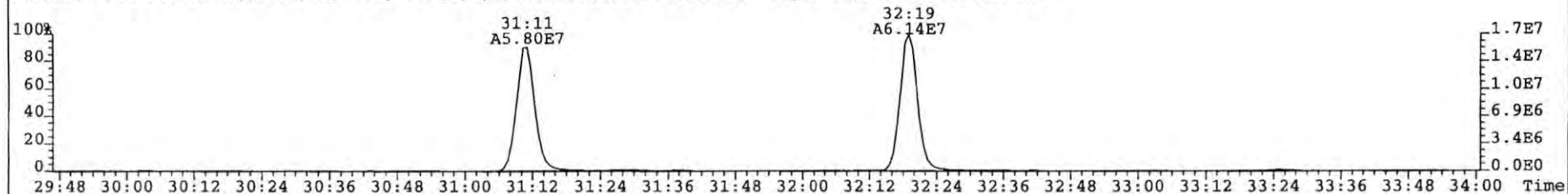
317.9389 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 123



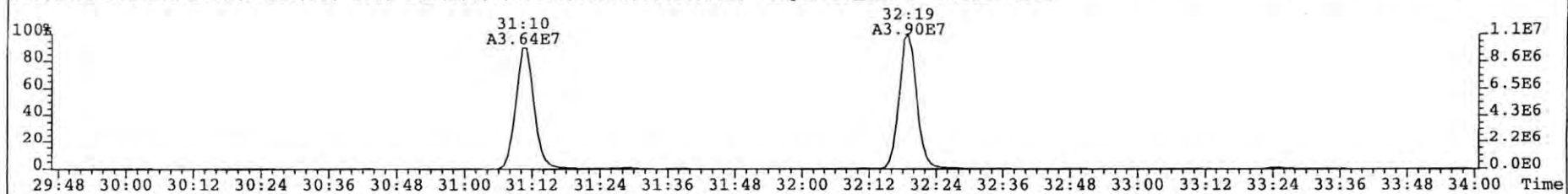
375.8364 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 92



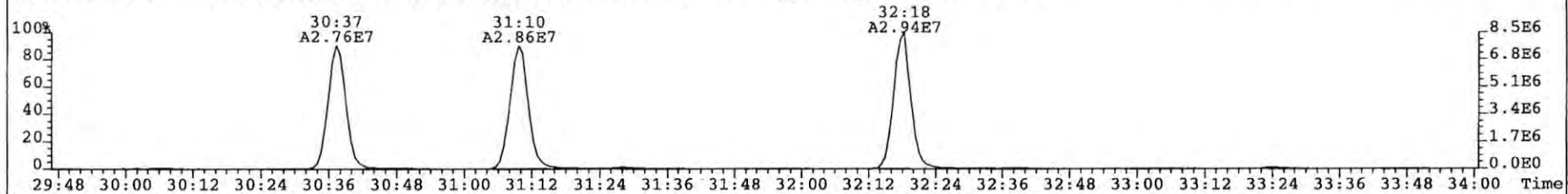
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5  
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 1370



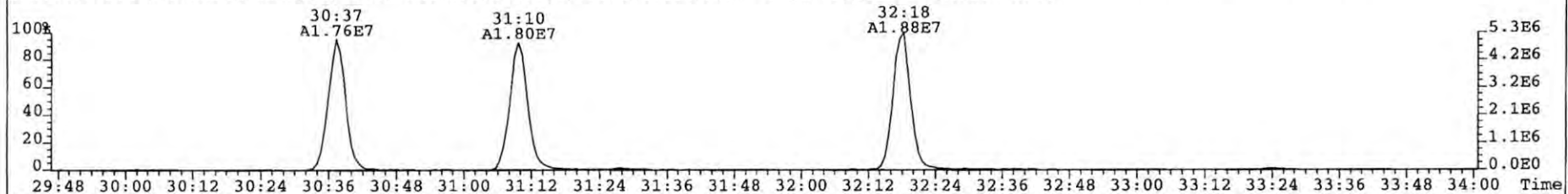
341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 1333



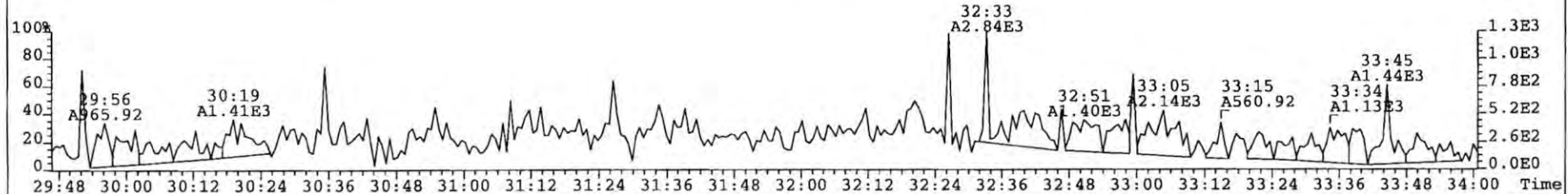
351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 1588



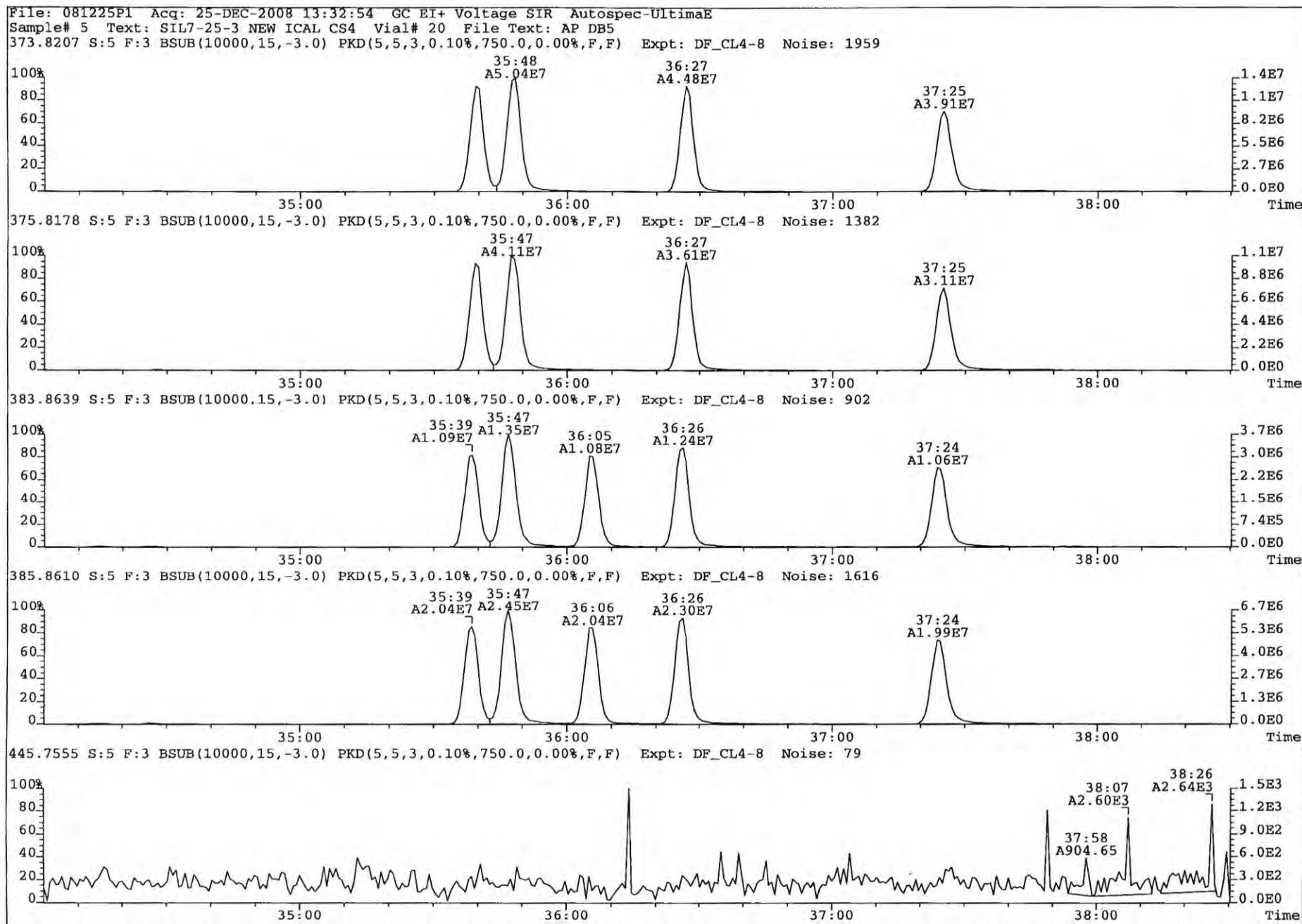
353.8970 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 1364



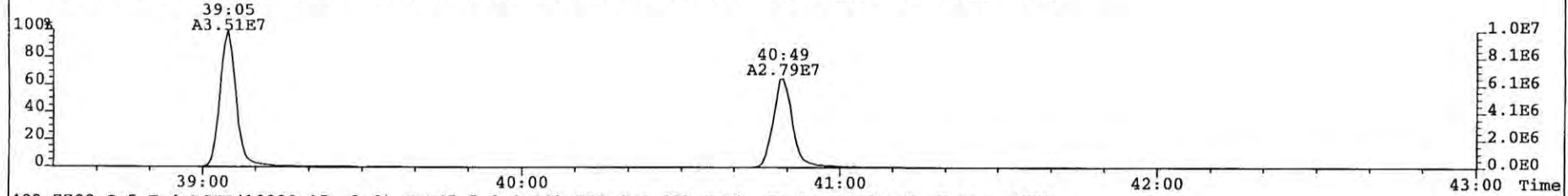
409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 95



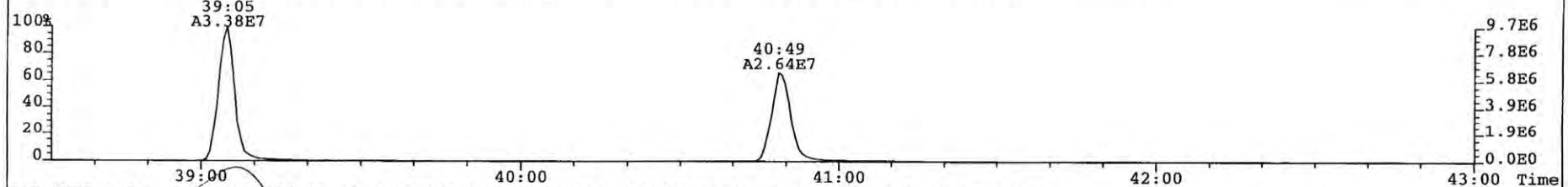




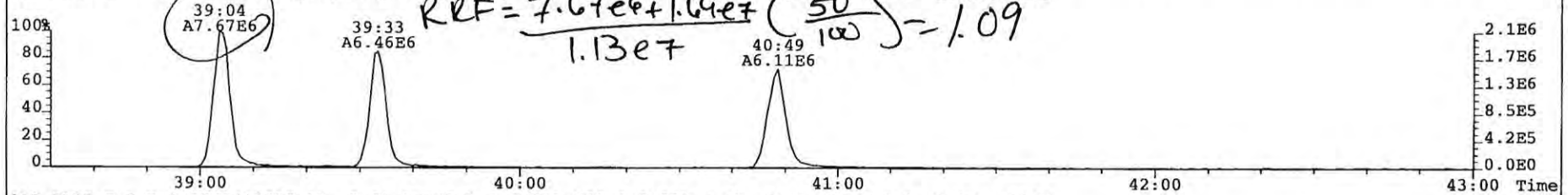
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5  
 407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 1776



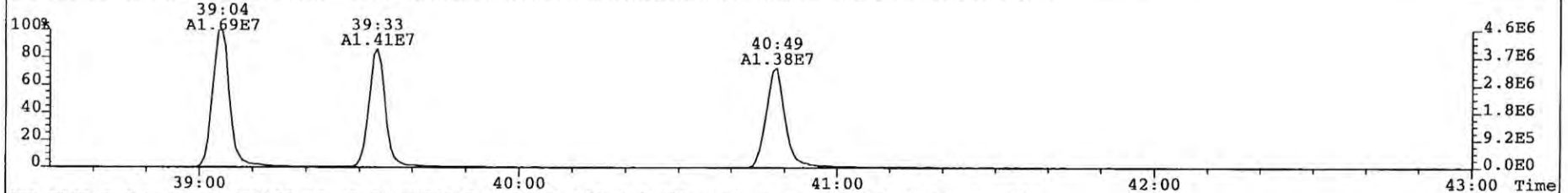
409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 1985



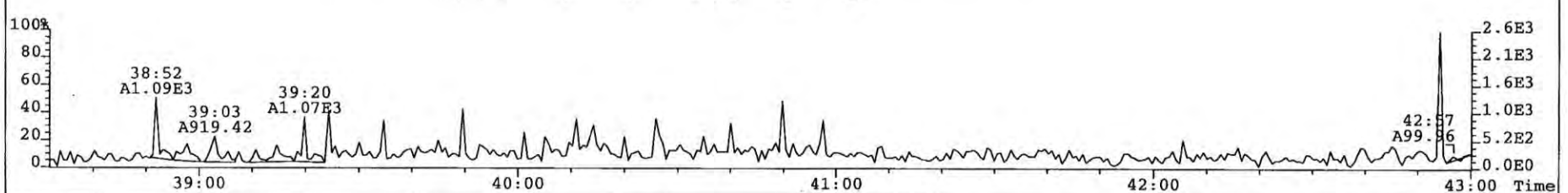
417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 1131



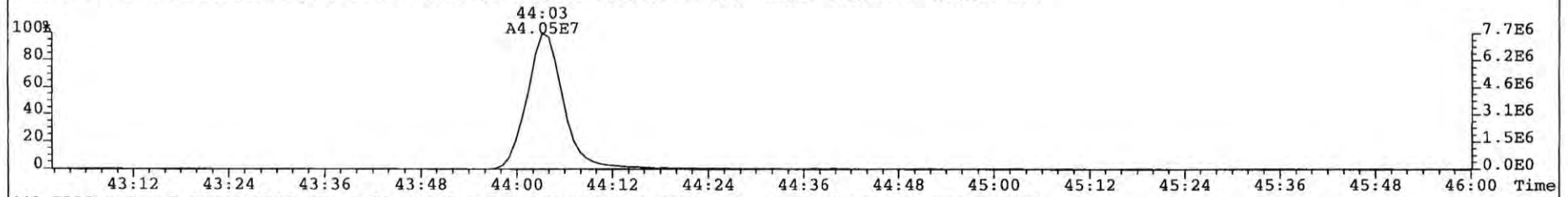
419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 2046



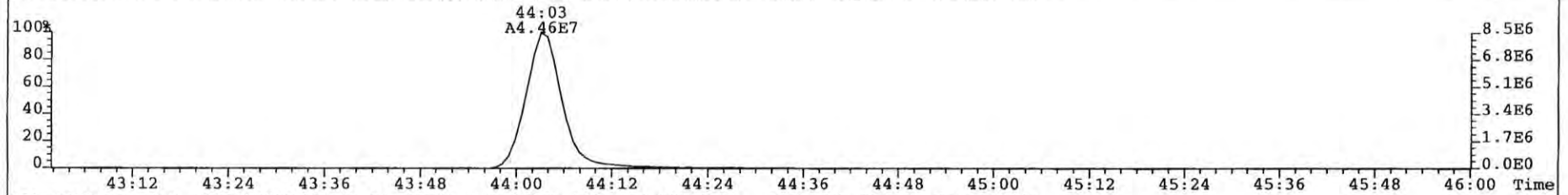
479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 76



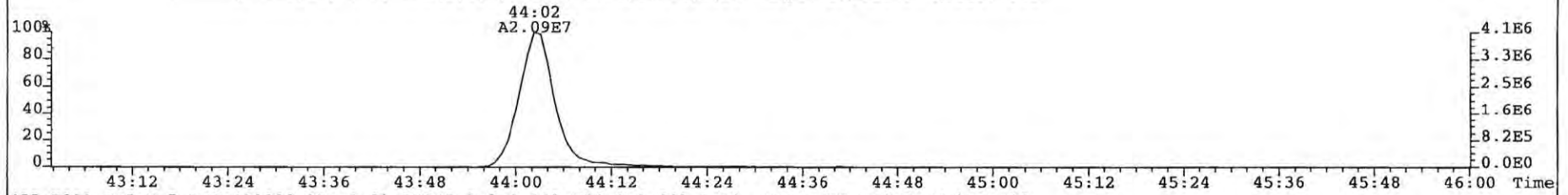
File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5  
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 358



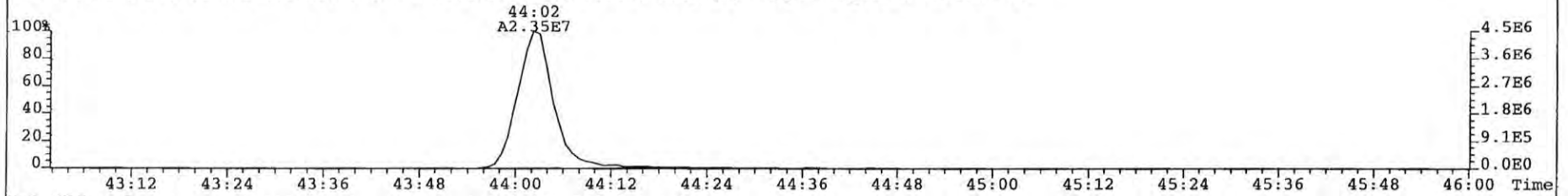
443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 635



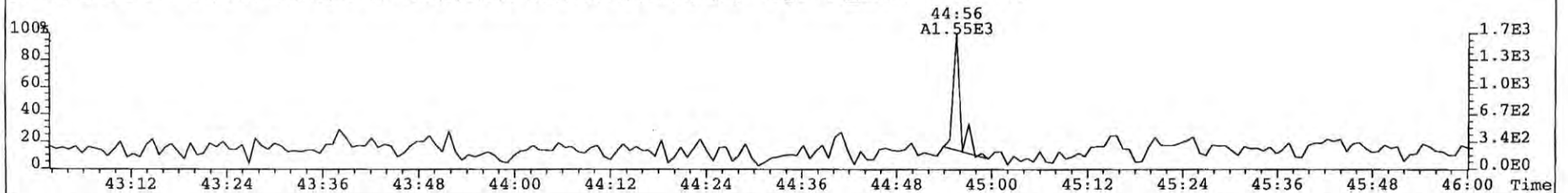
453.7830 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 345



455.7801 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 88

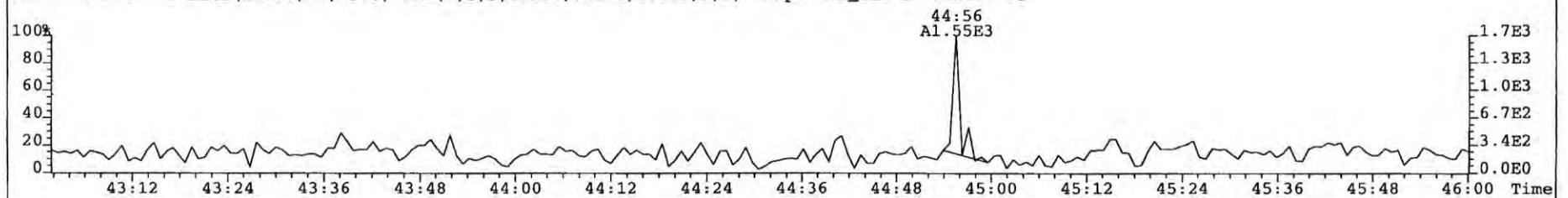
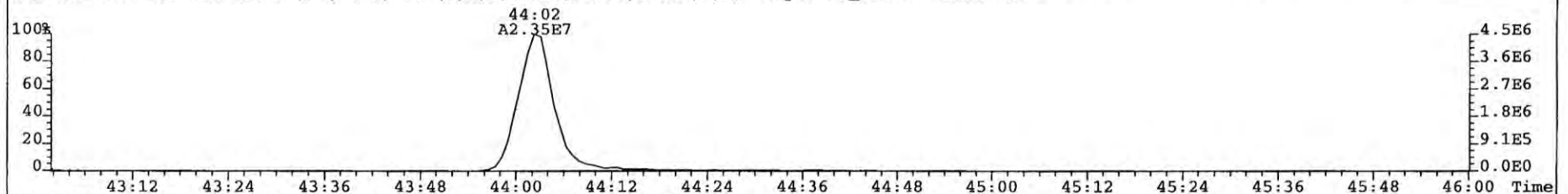
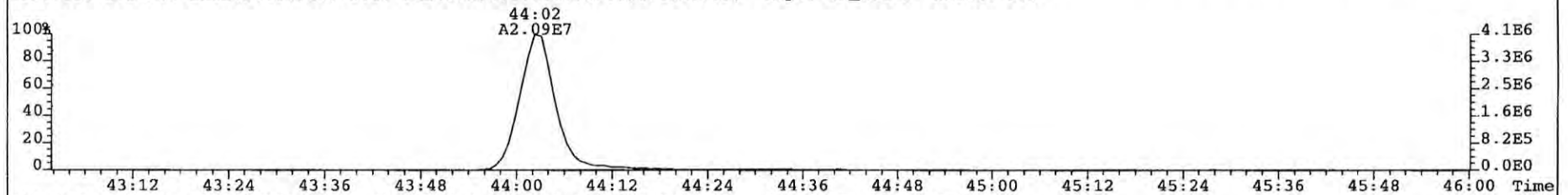
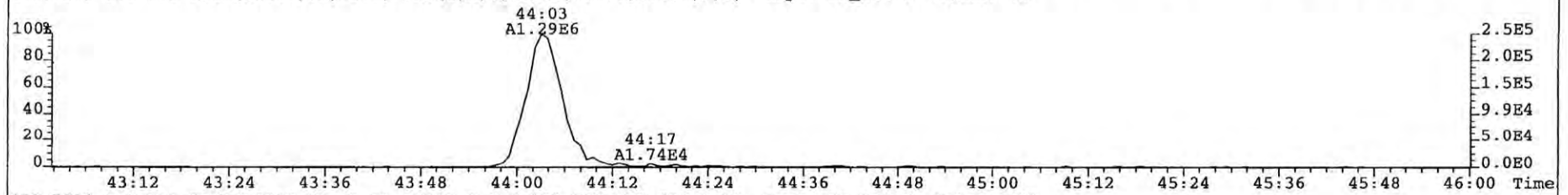
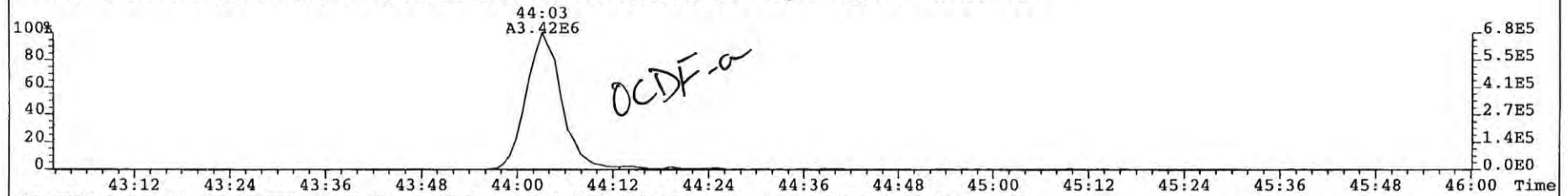


513.6775 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 73





File: 081225P1 Acq: 25-DEC-2008 13:32:54 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 5 Text: SIL7-25-3 NEW ICAL CS4 Vial# 20 File Text: AP DB5  
446.7402 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 71



*M 30 Dec 08*

Calibration Summary

Analytical Perspectives

[Form: CAL]

Client ID: NEW ICAL CS5 ✓  
 Lab ID: SIL7-25-2 ✓  
 Sample text: SIL7-25-2 NEW ICAL CS5

Filename: 081225P1 S: 6 ✓  
 GC Column ID: db-5  
 Acq: 25-DEC-08 14:23:03  
 ICal: MM1\_DF\_07012007A\_25DEC08 Wt/Vol: 1.000  
 Vial: 21

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Ax	2,3,7,8-TCDD	200.00	7.43e+07	0.79 y	27:05	-
2	Ax	1,2,3,7,8-PeCDD	1000.00	3.02e+08	1.60 y	32:41	-
3	Ax	1,2,3,4,7,8-HxCDD	1000.00	2.68e+08	1.26 y	36:38	-
4	Ax	1,2,3,6,7,8-HxCDD	1000.00	2.68e+08	1.26 y	36:45	-
5	Ax	1,2,3,7,8,9-HxCDD	1000.00	2.75e+08	1.26 y	37:03	-
6	Ax	1,2,3,4,6,7,8-HpCDD	1000.00	2.26e+08	1.06 y	40:15	-
7	Ax	OCDD	2000.00	3.48e+08	0.89 y	43:50	-
8	Ax2	OCDD-a	2000.00	2.06e+07	2.54 y	43:49	-
9	Ax	2,3,7,8-TCDF	200.00	1.03e+08	0.78 y	26:09	-
10	Ax	1,2,3,7,8-PeCDF	1000.00	4.77e+08	1.58 y	31:11	-
11	Ax	2,3,4,7,8-PeCDF	1000.00	5.01e+08	1.57 y	32:19	-
12	Ax	1,2,3,4,7,8-HxCDF	1000.00	4.09e+08	1.26 y	35:39	-
13	Ax	1,2,3,6,7,8-HxCDF	1000.00	4.80e+08	1.25 y	35:48	-
14	Ax	2,3,4,6,7,8-HxCDF	1000.00	4.15e+08	1.25 y	36:27	-
15	Ax	1,2,3,7,8,9-HxCDF	1000.00	3.66e+08	1.28 y	37:26	-
16	Ax	1,2,3,4,6,7,8-HpCDF	1000.00	3.75e+08	1.04 y	39:05	-
17	Ax	1,2,3,4,7,8,9-HpCDF	1000.00	2.94e+08	1.04 y	40:50	-
18	Ax	OCDF	2000.00	4.84e+08	0.91 y	44:04	-
19	Ax2	OCDF-a	2000.00	2.79e+07	2.68 y	44:04	-
20	ES	13C-2,3,7,8-TCDD	100.00	3.31e+07	0.82 y	27:04	-
21	ES	13C-1,2,3,7,8-PeCDD	100.00	2.94e+07	1.65 y	32:40	-
22	ES	13C-1,2,3,4,7,8-HxCDD	100.00	2.39e+07	1.29 y	36:37	-
23	ES	13C-1,2,3,6,7,8-HxCDD	100.00	2.75e+07	1.28 y	36:44	-
24	ES	13C-1,2,3,7,8,9-HxCDD	100.00	2.71e+07	1.28 y	37:02	-
25	ES	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.24e+07	1.09 y	40:14	-
26	ES	13C-OCDD	200.00	3.18e+07	0.86 y	43:49	-
27	ES	13C-2,3,7,8-TCDF	100.00	4.83e+07	0.80 y	26:08	-
28	ES	13C-1,2,3,7,8-PeCDF	100.00	4.72e+07	1.59 y	31:10	-
29	ES	13C-2,3,4,7,8-PeCDF	100.00	4.90e+07	1.55 y	32:18	-
30	ES	13C-1,2,3,4,7,8-HxCDF	100.00	3.29e+07	0.54 y	35:38	-
31	ES	13C-1,2,3,6,7,8-HxCDF	100.00	4.07e+07	0.54 y	35:47	-
32	ES	13C-2,3,4,6,7,8-HxCDF	100.00	3.52e+07	0.54 y	36:26	-
33	ES	13C-1,2,3,7,8,9-HxCDF	100.00	3.15e+07	0.53 y	37:24	-
34	ES	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.68e+07	0.45 y	39:04	-
35	ES	13C-1,2,3,4,7,8,9-HpCDF	100.00	2.12e+07	0.46 y	40:48	-
36	ES	13C-OCDF	200.00	5.11e+07	0.90 y	44:03	-
37	CS	37Cl-2,3,7,8-TCDD	200.00	6.73e+07		27:05	-
38	CS	13C-1,2,3,4,7-PeCDD	100.00	2.50e+07	1.69 y	32:09	-
39	CS	13C-1,2,3,4,6-PeCDF	100.00	4.06e+07	1.57 y	30:37	-
40	CS	13C-1,2,3,4,6,9-HxCDF	100.00	2.96e+07	0.53 y	36:05	-
41	CS	13C-1,2,3,4,6,8,9-HpCDF	100.00	1.89e+07	0.46 y	39:33	-
42	NA	n/a	100.00	*	* n	NotF>	-
43	JS/RT	13C-1,2,3,4-TCDD	100.00	3.16e+07	0.82 y	26:23	3.16e+05
44	JS	13C-1,2,3,4-TCDF	100.00	4.87e+07	0.79 y	24:42	4.87e+05
45	JS/RT	13C-1,2,3,4,6,7-HxCDD	50.00	9.98e+06	1.29 y	36:55	2.00e+05

*✓ 1.12 - calc.*

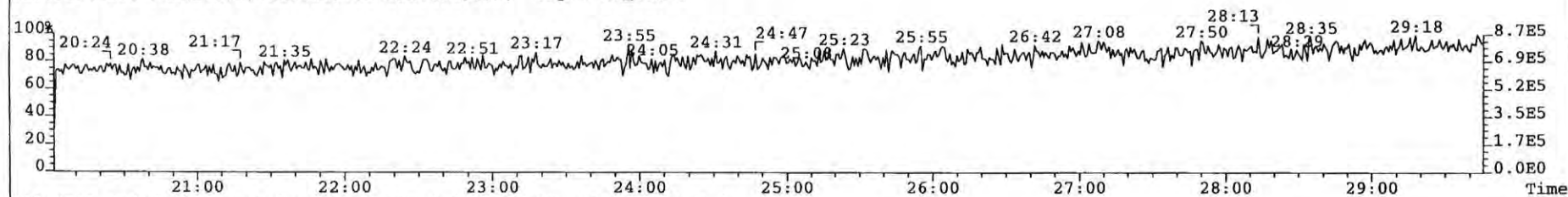
*200pg/ml*

Analyst: *[Signature]*  
 Date: *25 Dec 08*

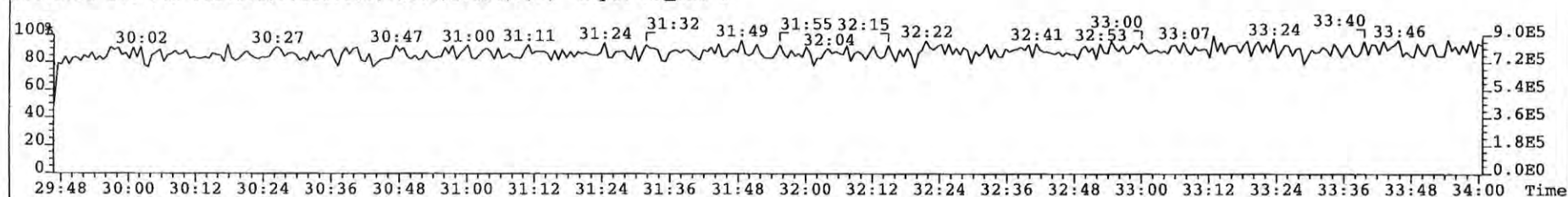
46	SS	37C1-2,3,7,8-TCDD	200.00	6.73e+07		27:05	-	1.02 ✓
47	SS	13C-1,2,3,4,7-PeCDD	100.00	2.50e+07	1.69 y	32:09	-	0.85
48	SS	13C-1,2,3,4,6-PeCDF	100.00	4.06e+07	1.57 y	30:37	-	0.86 ✓
49	SS	13C-1,2,3,4,6,9-HxCDF	100.00	2.96e+07	0.53 y	36:05	-	0.73
50	SS	13C-1,2,3,4,6,8,9-HpCDF	100.00	1.89e+07	0.46 y	39:33	-	0.71 ✓
51	SBS	2,4,6,8-TCDF	-	-	- n	-	-	1.06 ✓
52	Ay	1,3,6,8-TCDD	-	-	- n	-	-	1.12 ✓
53	Ay	1,2,3,9-TCDD	-	-	- n	-	-	1.12
54	Ay	1,2,8,9-TCDD	-	-	- n	-	-	1.12
55	Ay	1,2,4,7,9-PeCDD	-	-	- n	-	-	1.03
56	Ay	1,2,3,8,9-PeCDD	-	-	- n	-	-	1.03 ✓
57	Ay	1,2,4,6,7,9-HxCDD	-	-	- n	-	-	1.03
58	Ay	1,2,3,4,6,7,9-HpCDD	-	-	- n	-	-	1.01
59	Ay	1,3,6,8-TCDF	-	-	- n	-	-	1.06
60	Ay	2,3,4,8-TCDF	-	-	- n	-	-	1.06
61	Ay	1,2,8,9-TCDF	-	-	- n	-	-	1.06
62	Ay	1,3,4,6,8-PeCDF	-	-	- n	-	-	1.06 ✓
63	Ay	1,2,3,8,9-PeCDF	-	-	- n	-	-	1.02
64	Ay	1,2,3,4,6,8-HxCDF	-	-	- n	-	-	1.19
65	Tot	Total Tetra-Dioxins	-	-	- n	-	-	1.12
66	Tot	Total Penta-Dioxins	-	-	- n	-	-	1.03
67	Tot	Total Hexa-Dioxins	-	-	- n	-	-	1.03
68	Tot	Total Hepta-Dioxins	-	-	- n	-	-	1.01
69	Tot	Total Tetra-Furans	-	-	- n	-	-	1.06
70	Tot	Total Penta-Furans	-	-	- n	-	-	1.02
71	Tot	Total Hexa-Furans	-	-	- n	-	-	1.19
72	Tot	Total Hepta-Furans	-	-	- n	-	-	1.39
73	Tot	TCDD EMPC	-	-	- n	-	-	1.12
74	Tot	PeCDD EMPC	-	-	- n	-	-	1.03
75	Tot	HxCDD EMPC	-	-	- n	-	-	1.03
76	Tot	HpCDD EMPC	-	-	- n	-	-	1.01
77	Tot	TCDF EMPC	-	-	- n	-	-	1.06
78	Tot	PeCDF EMPC	-	-	- n	-	-	1.02
79	Tot	HxCDF EMPC	-	-	- n	-	-	1.19
80	Tot	HpCDF EMPC	-	-	- n	-	-	1.39
81	AS	13C-1,3,6,8-TCDD	100.00	3.41e+07	0.83 y	23:08	-	1.08 ✓
82	AS	13C-1,3,6,8-TCDF	100.00	5.25e+07	0.79 y	20:56	-	1.08
83	DPE	HxCDPE	-	1.15e+04		22:41	-	-
84	DPE	HpCDPE	-	*		NotF>>	-	-
85	DPE	OCDF	-	*		NotF>>	-	-
86	DPE	NCDPE	-	2.09e+04		39:22	-	-
87	DPE	DCDF	-	*		NotF>>	-	-
88	LMC	Fn1 check mass	-	*		NotF>>	-	-
89	LMC	Fn2 check mass	-	*		NotF>>	-	-
90	LMC	Fn3 check mass	-	*		NotF>>	-	-
91	LMC	Fn4 check mass	-	*		NotF>>	-	-
92	LMC	Fn5 check mass	-	*		NotF>>	-	-



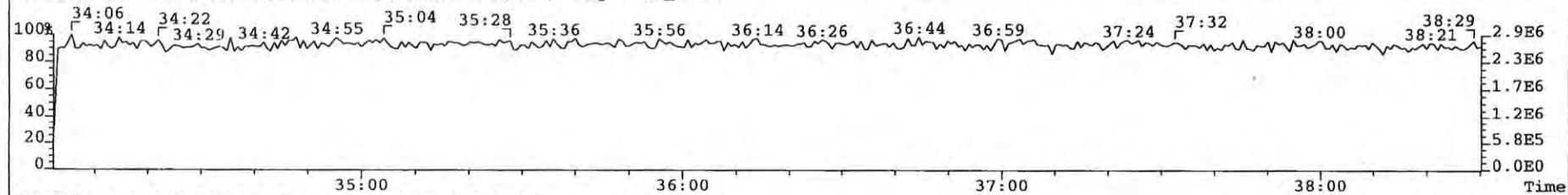
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5  
316.9824 S:6 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



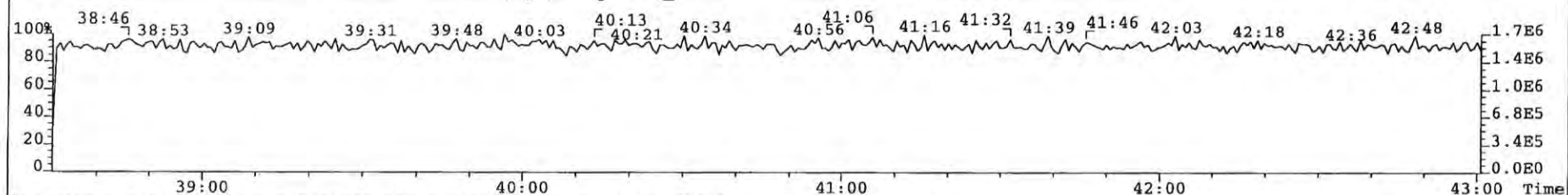
366.9792 S:6 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



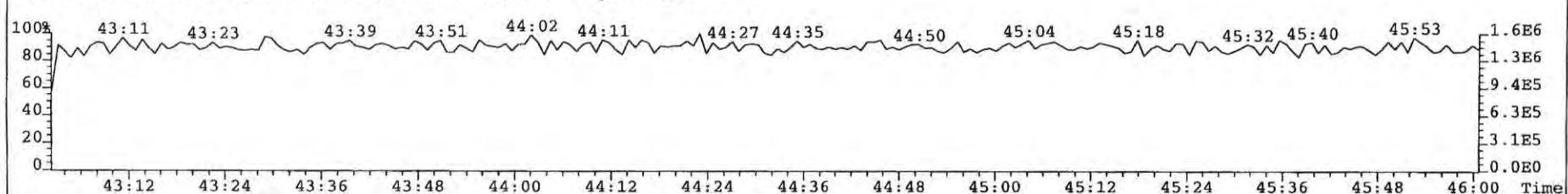
380.9760 S:6 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



430.9728 S:6 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

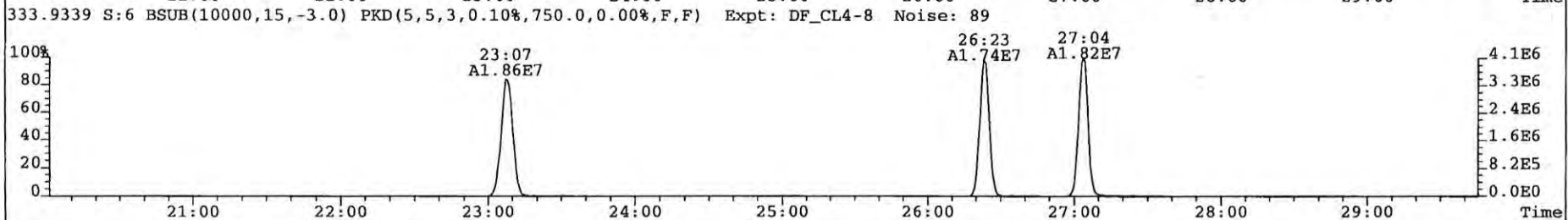
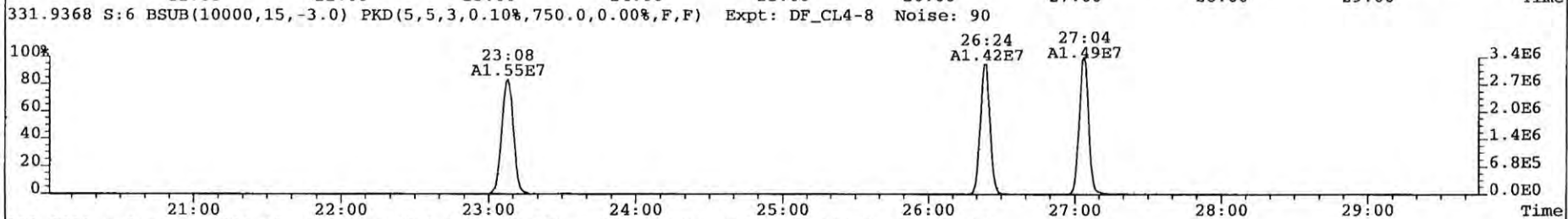
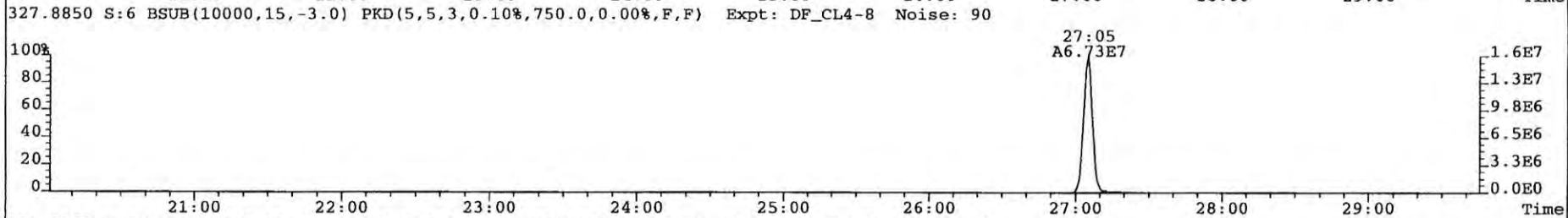
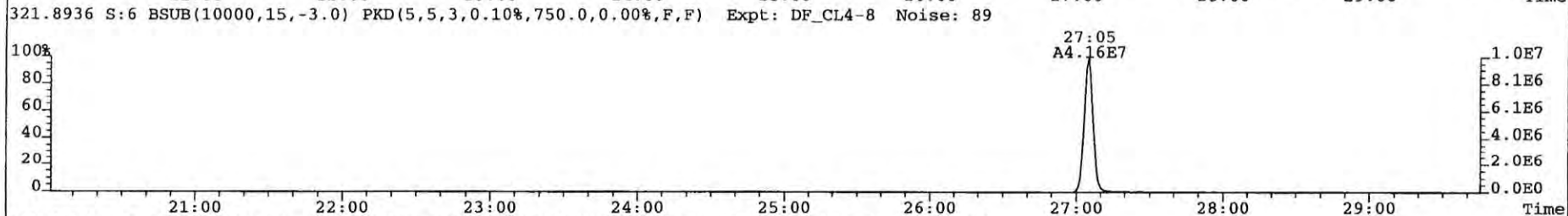
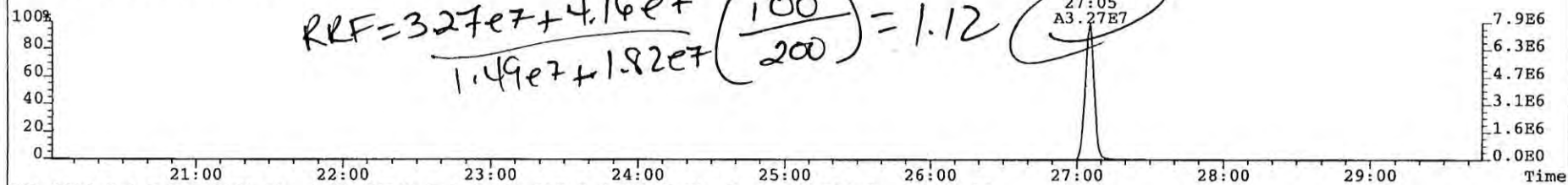


454.9728 S:6 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5  
319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 78

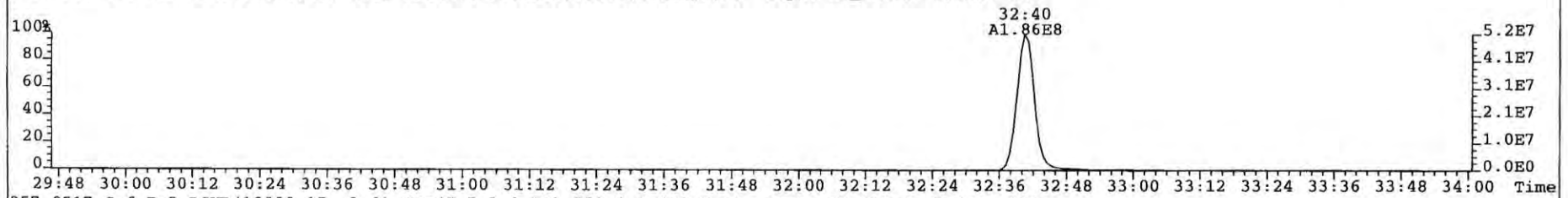
$$RRF = \frac{3.27e7 + 4.16e7}{1.49e7 + 1.82e7} \left( \frac{100}{200} \right) = 1.12$$



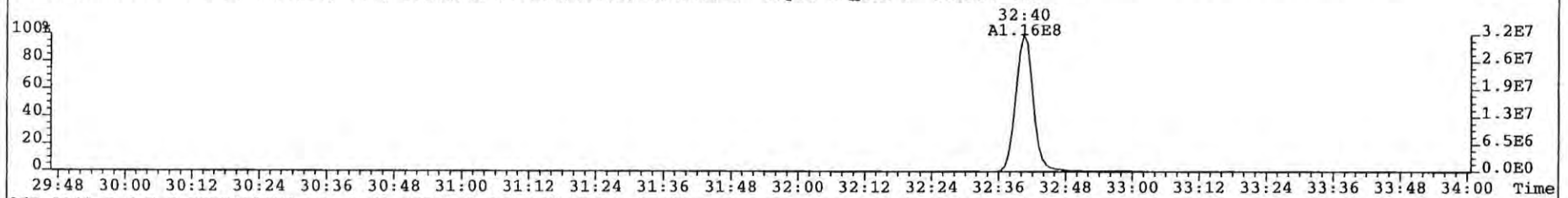
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5

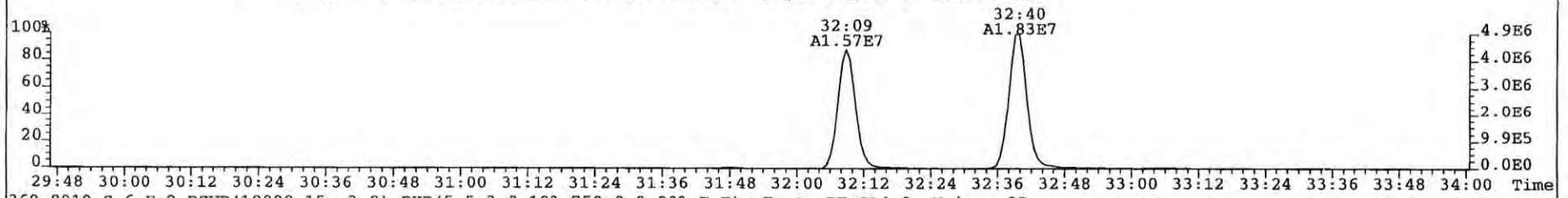
355.8546 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 131



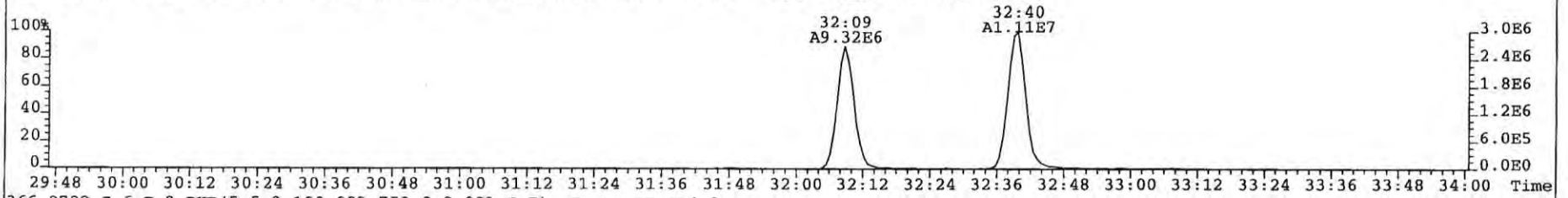
357.8517 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 148



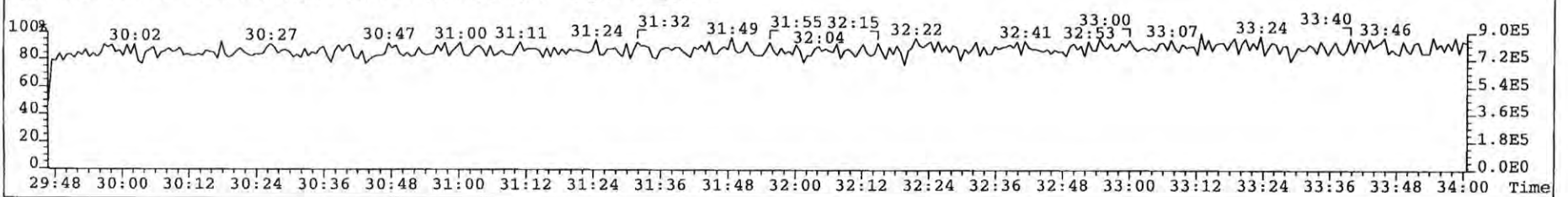
367.8949 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 92



369.8919 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 85



366.9792 S:6 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

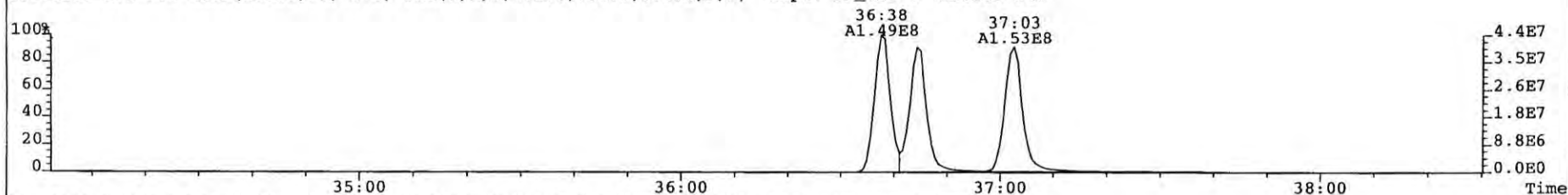




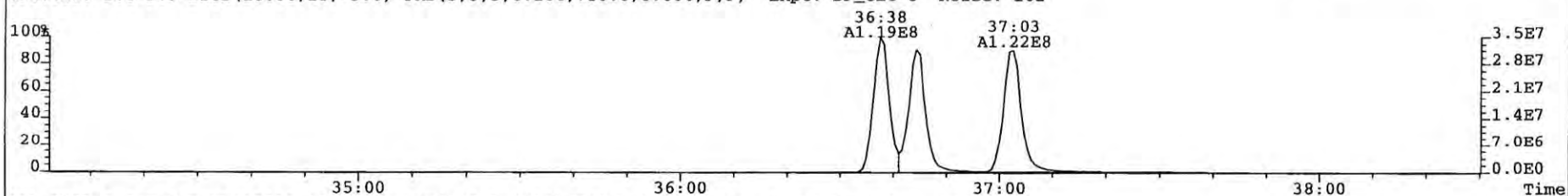
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5

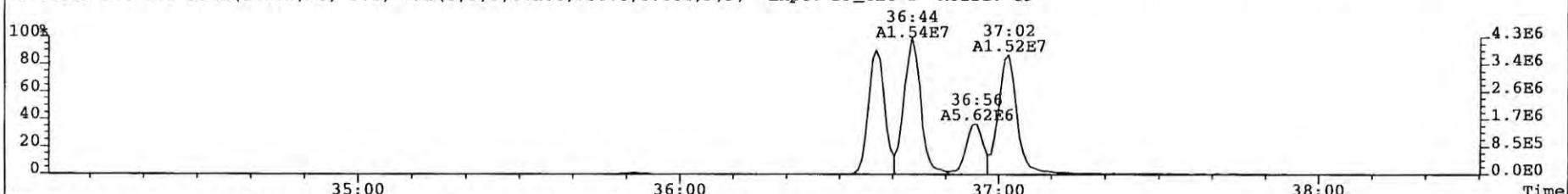
389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 340



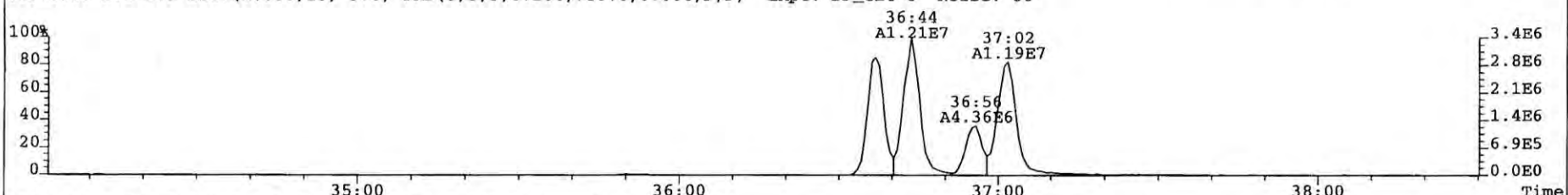
391.8127 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 102



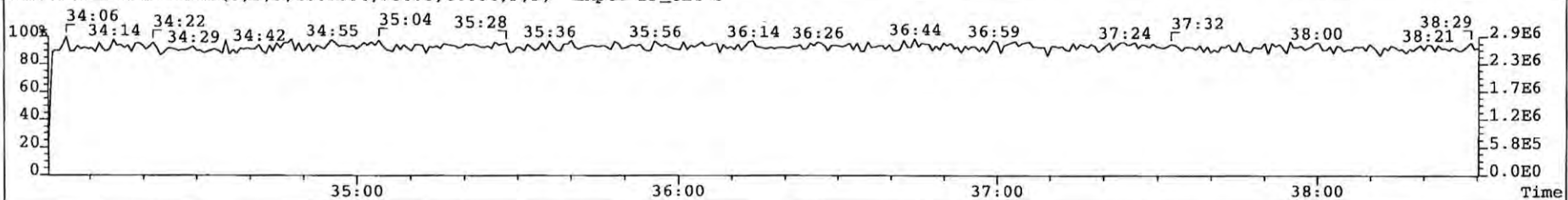
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 89



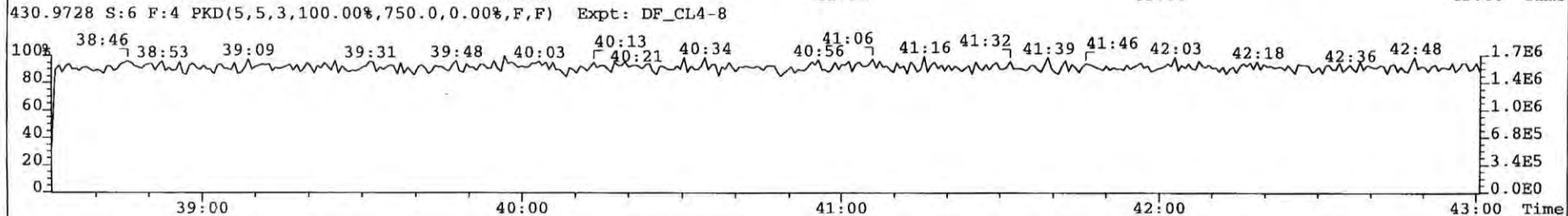
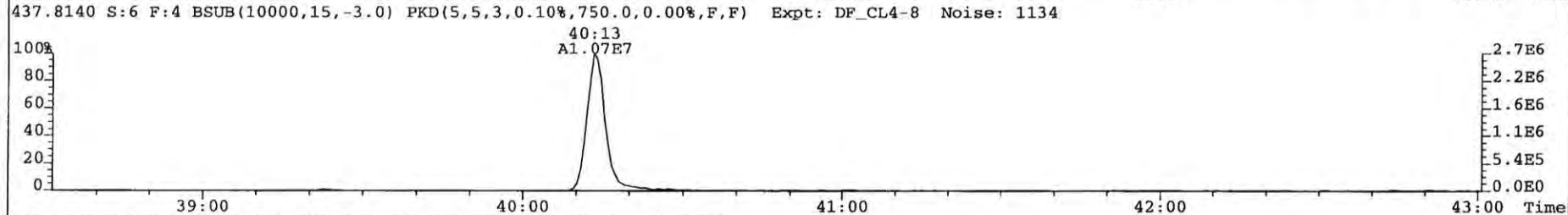
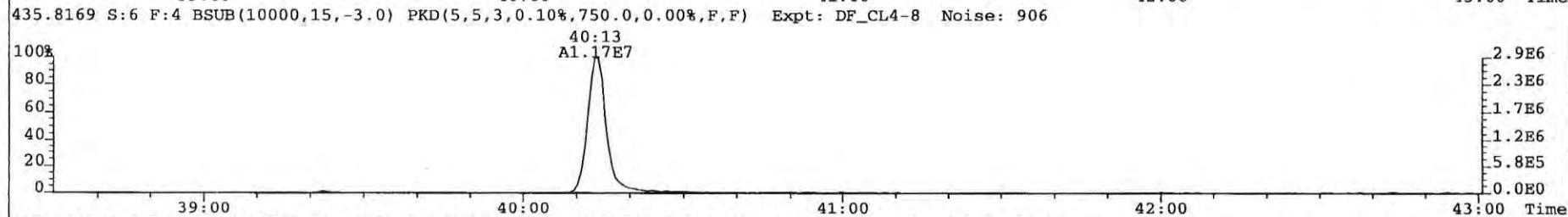
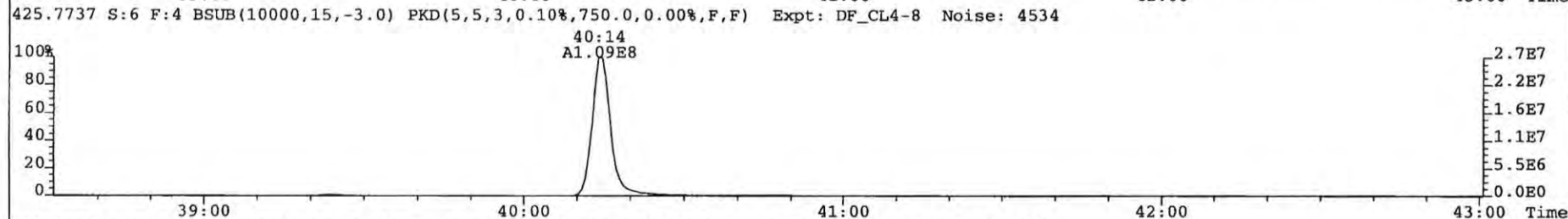
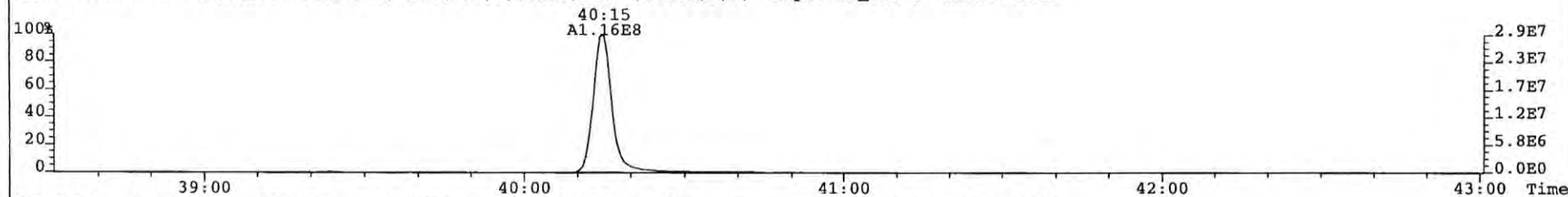
403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 80



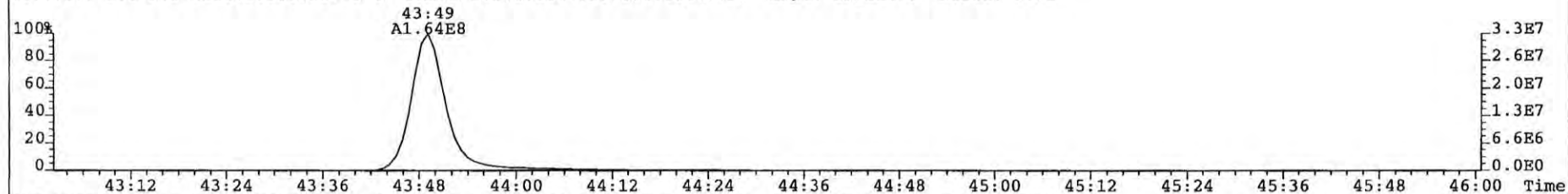
380.9760 S:6 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



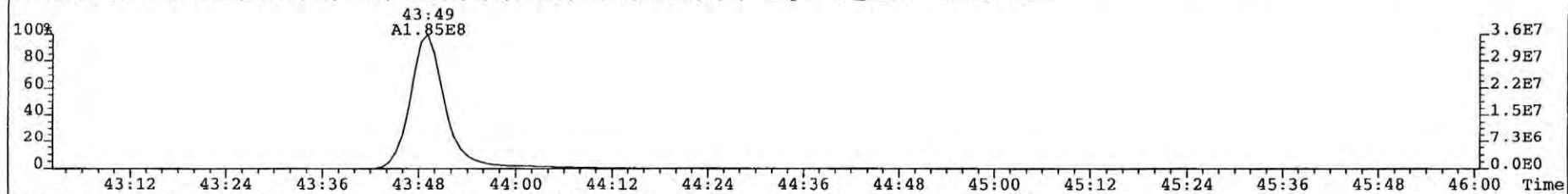
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5  
423.7767 S:6 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 4249



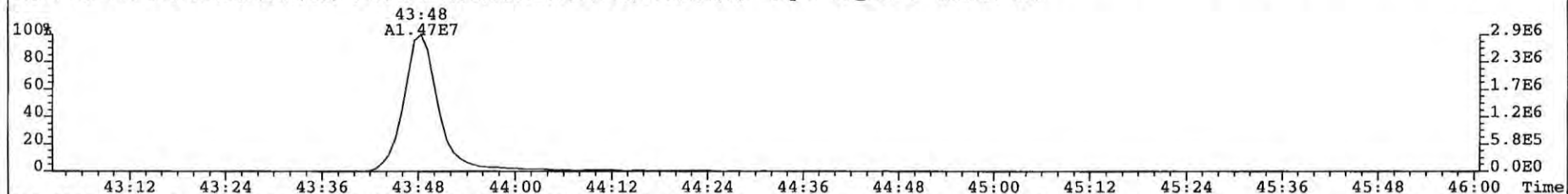
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5  
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 1711



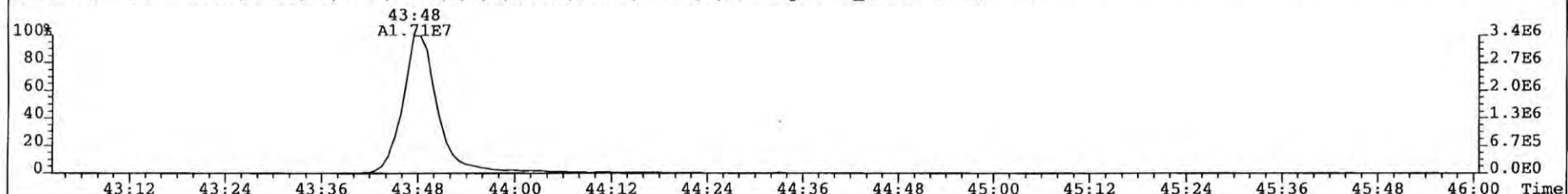
459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 2019



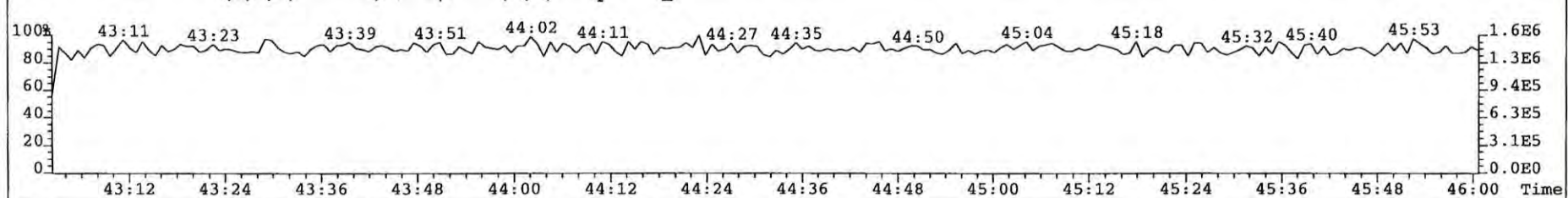
469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 241



471.7750 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 258

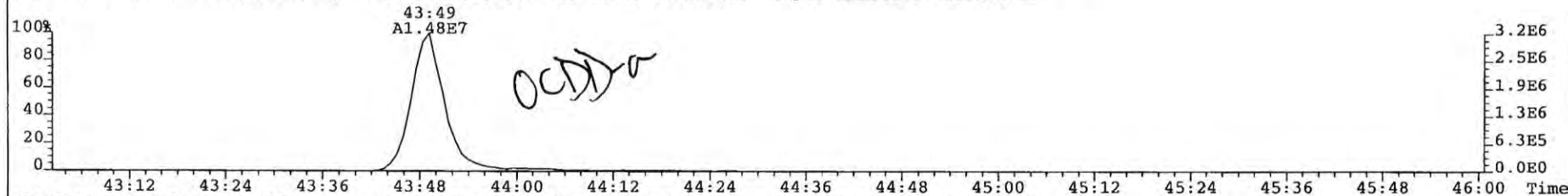


454.9728 S:6 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

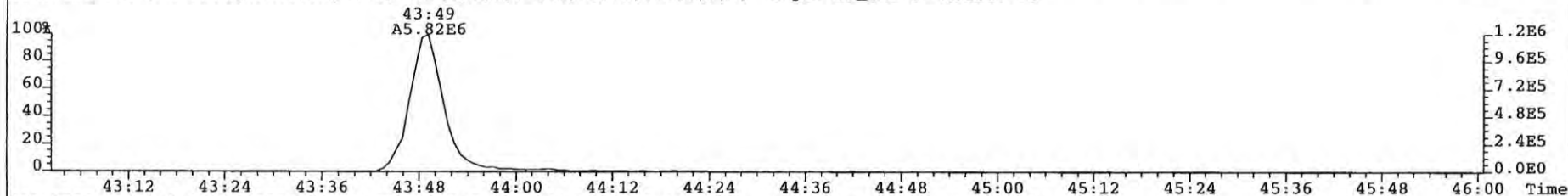




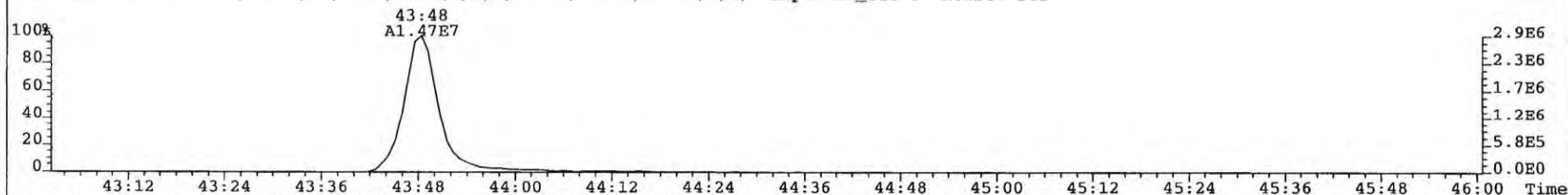
File: 081225F1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5  
462.7352 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 88



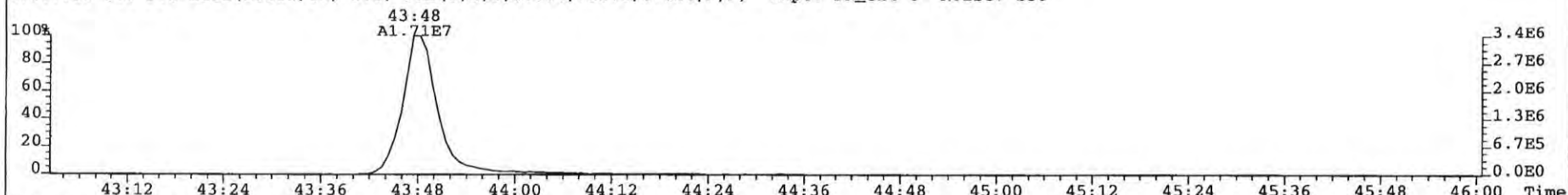
464.7322 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 78



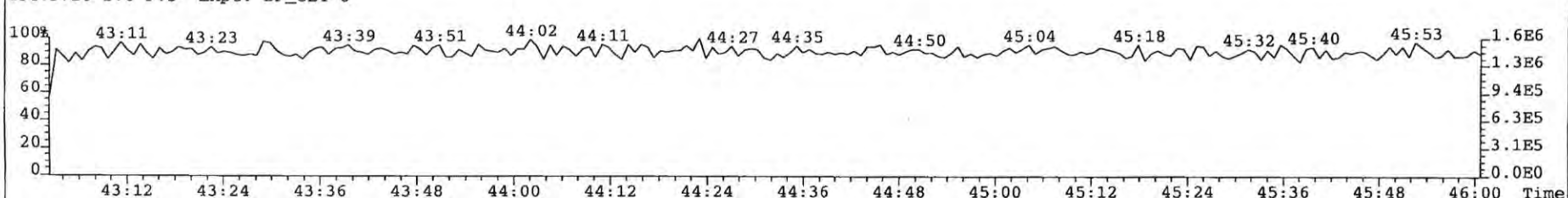
469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 241



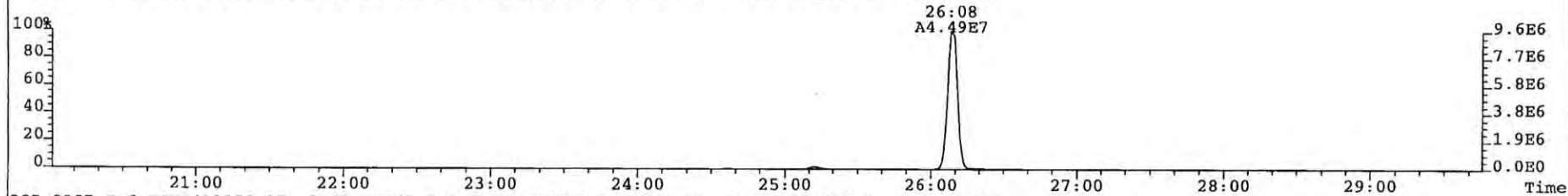
471.7750 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 258



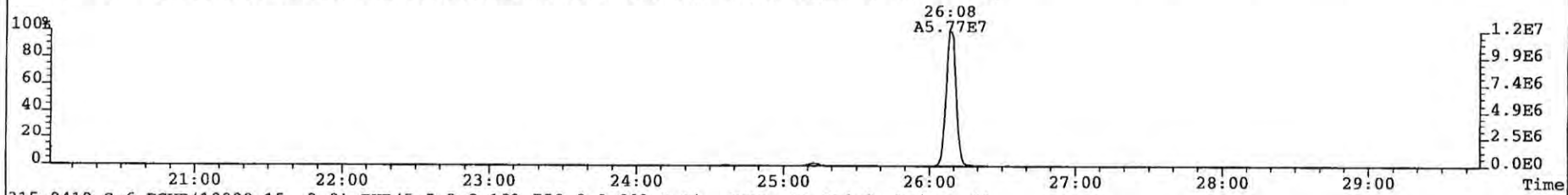
454.9728 S:6 F:5 Expt: DF\_CL4-8



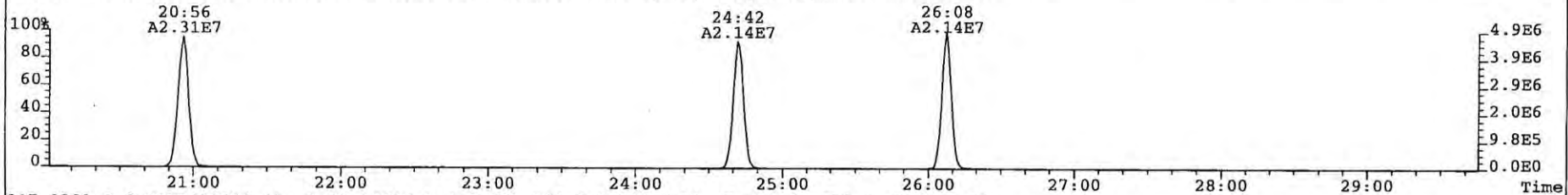
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5  
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 216



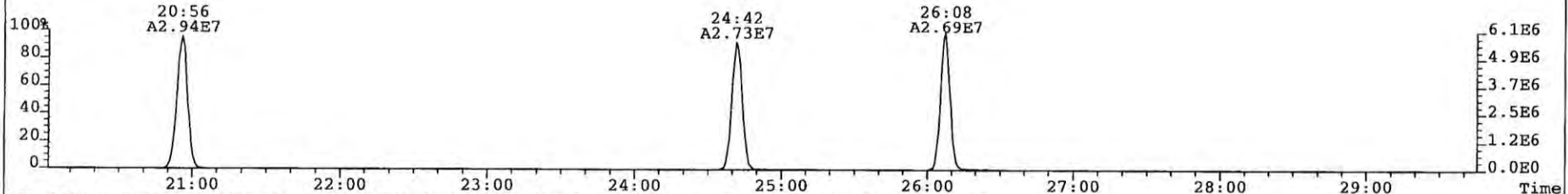
305.8987 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 243



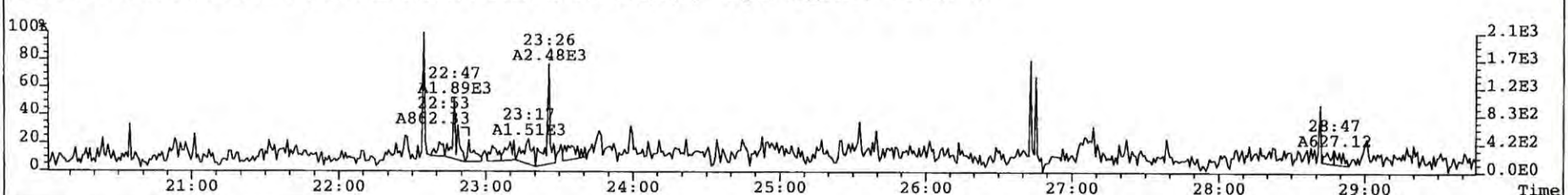
315.9419 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 94



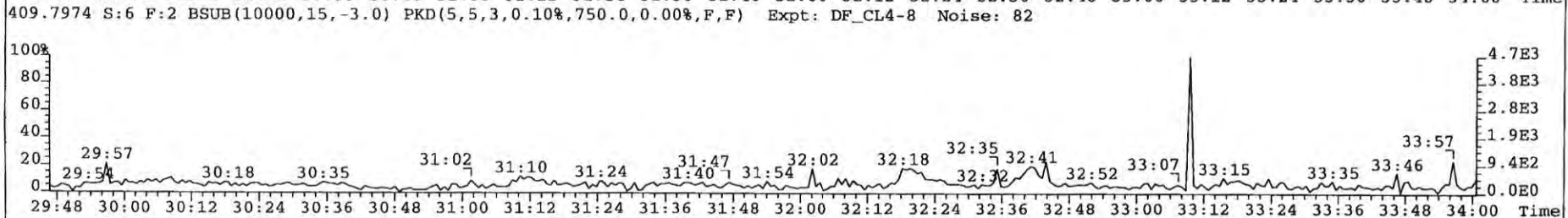
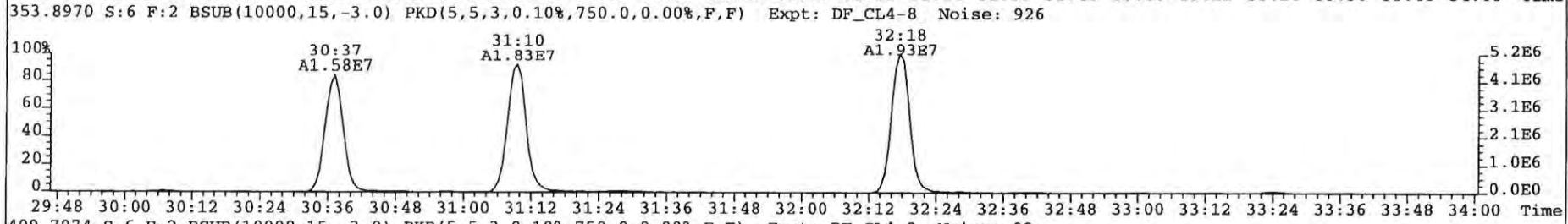
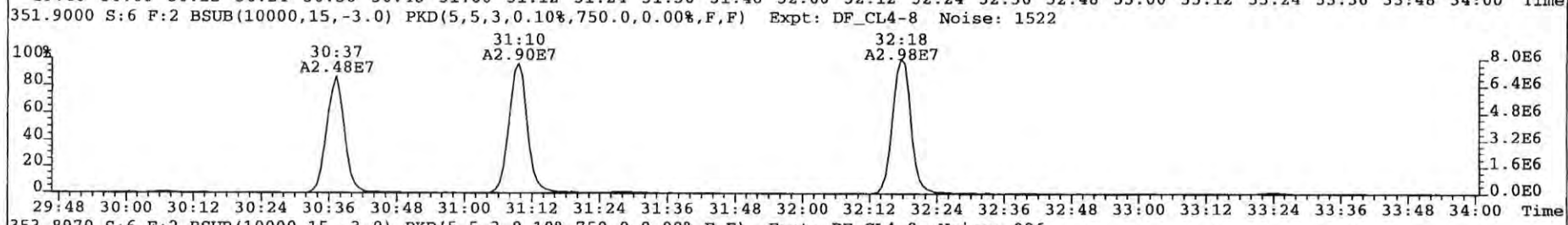
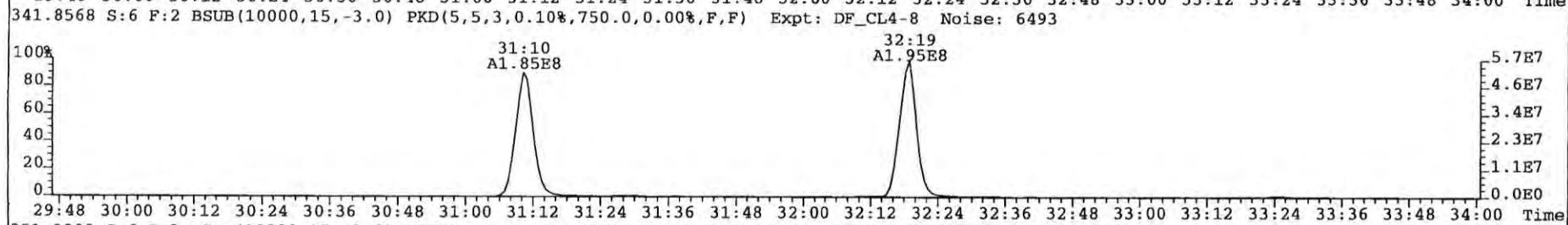
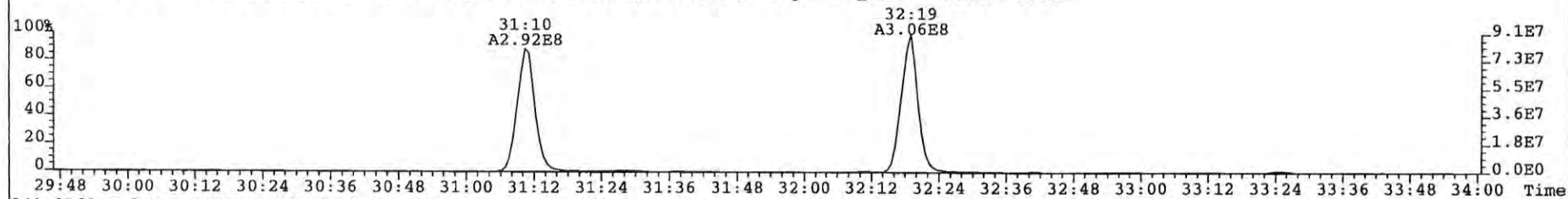
317.9389 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 93



375.8364 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 79

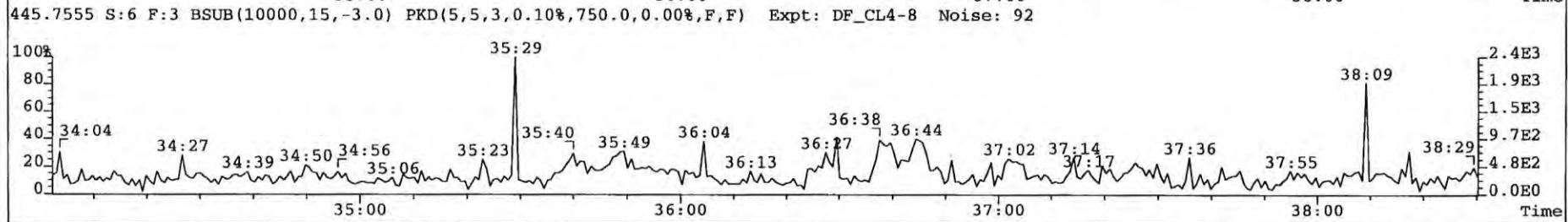
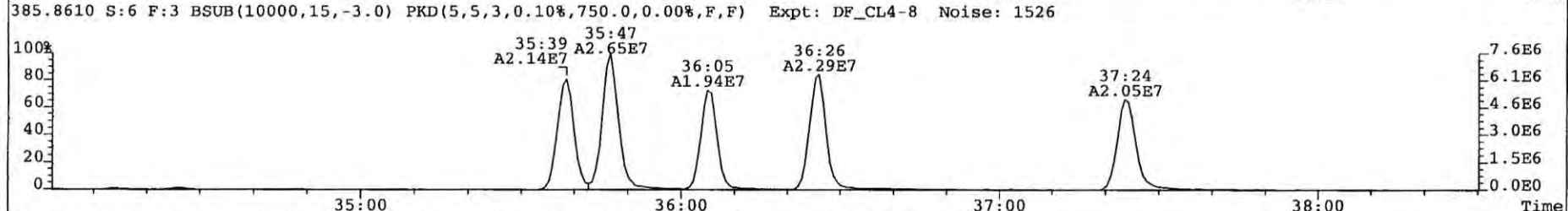
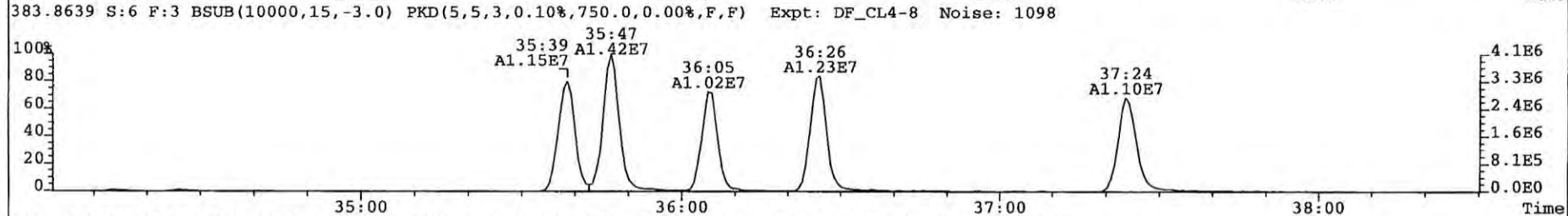
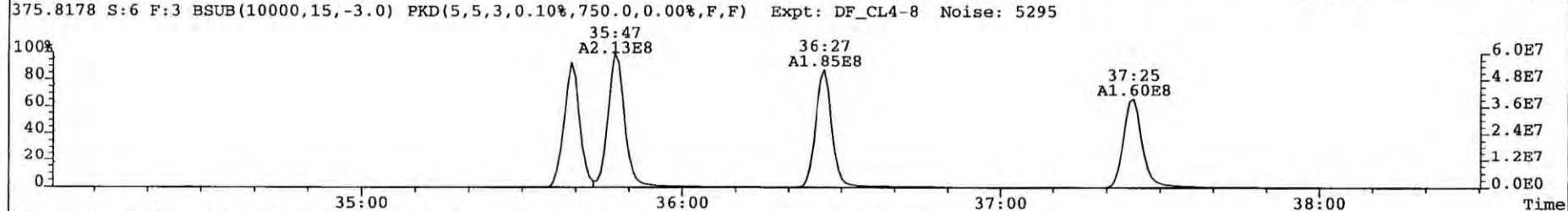
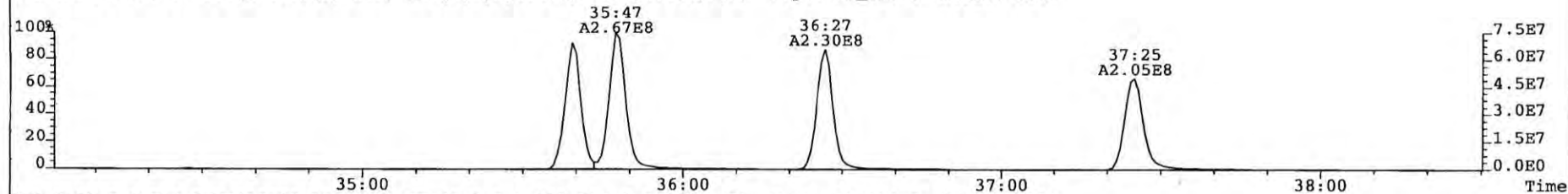


File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5  
339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 10465

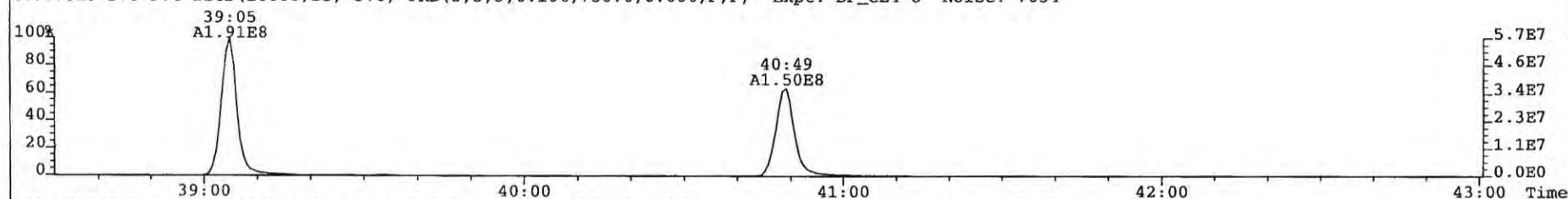




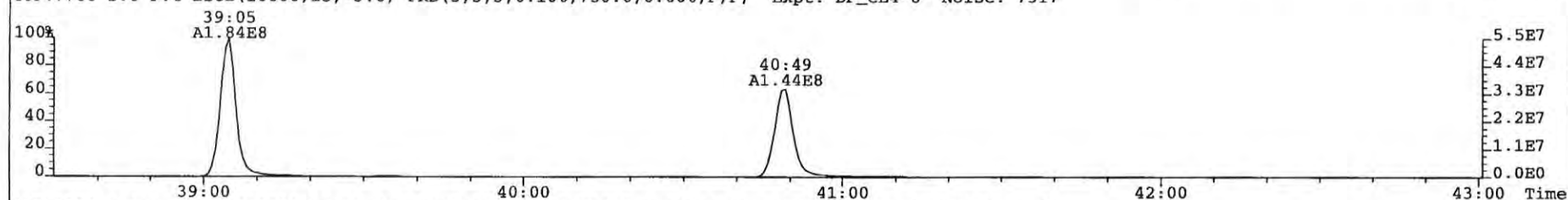
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5  
373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 6804



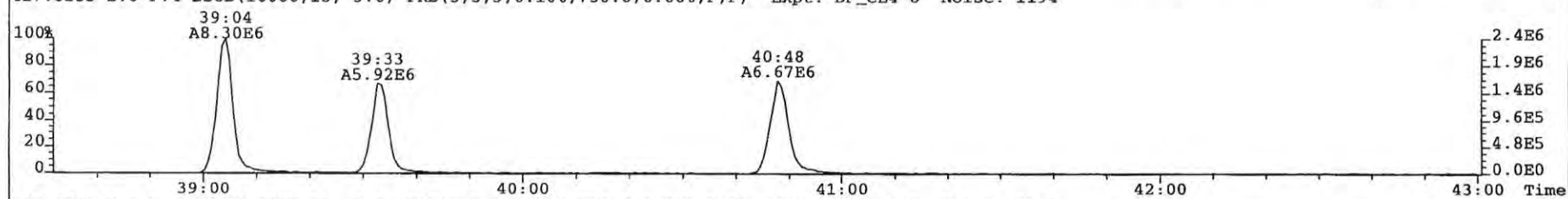
File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5  
407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 7054



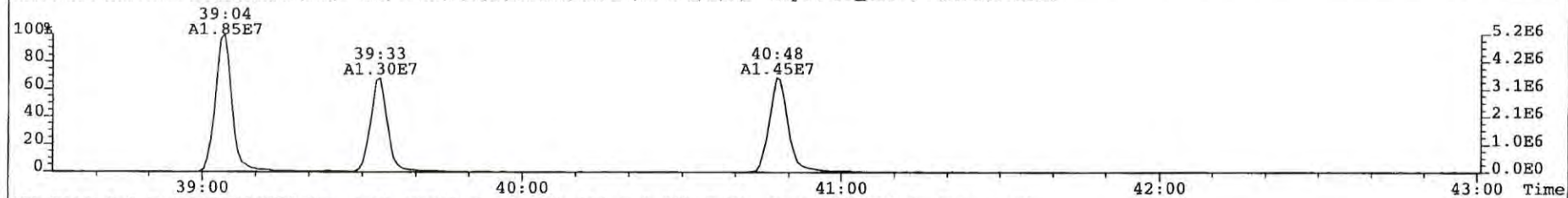
409.7788 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 7317



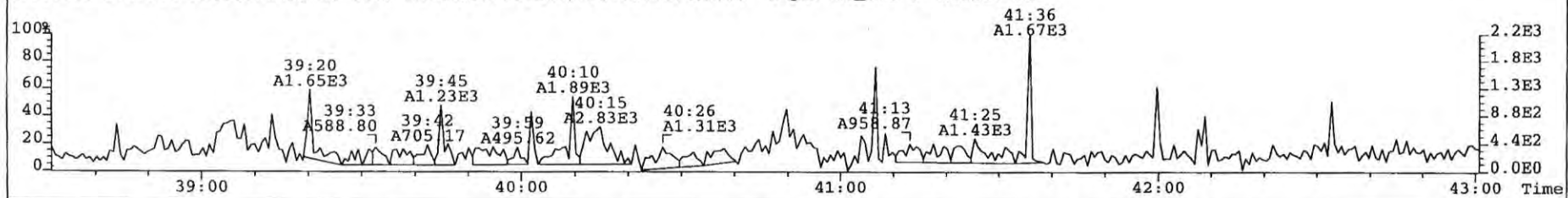
417.8253 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 1194



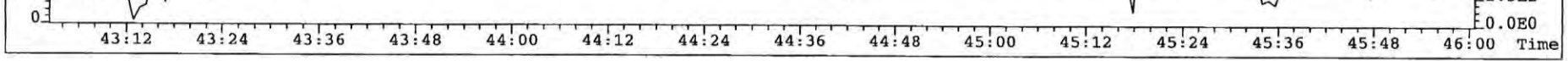
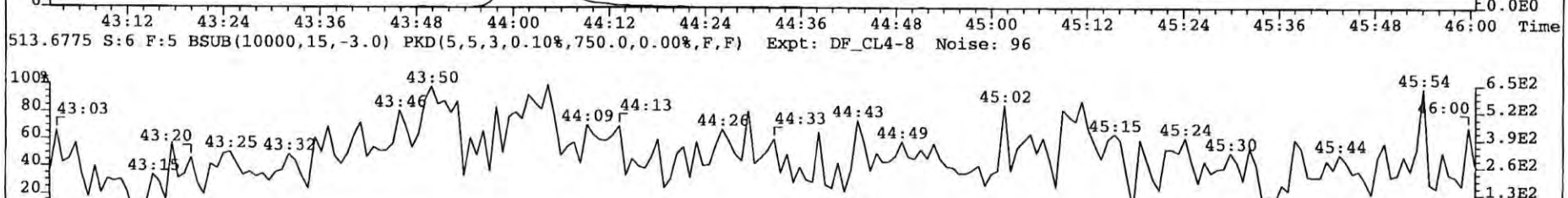
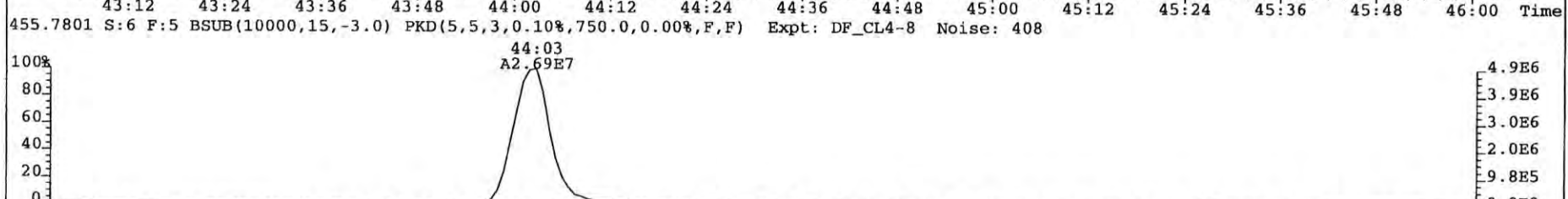
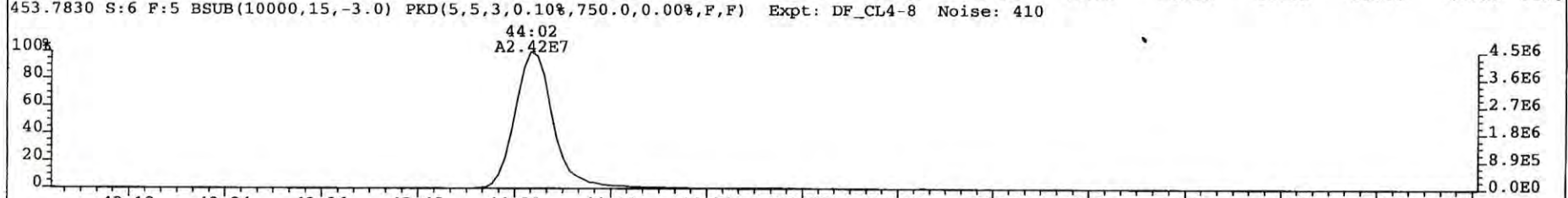
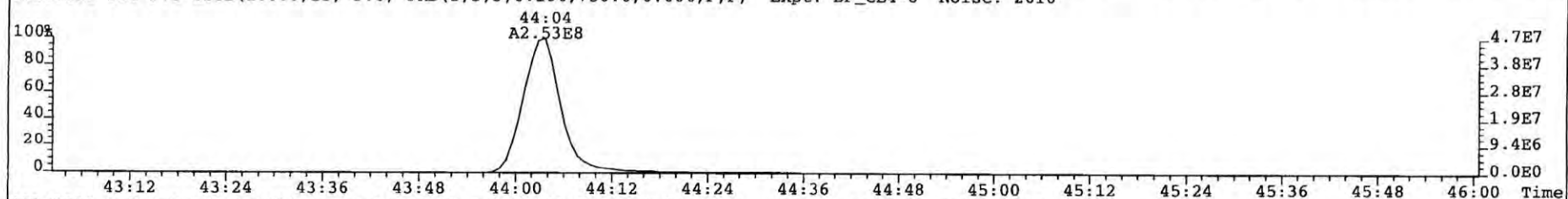
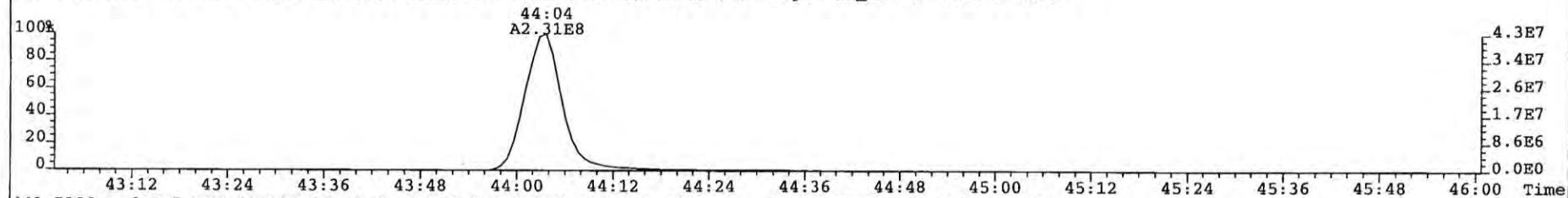
419.8220 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 2104



479.7165 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 91

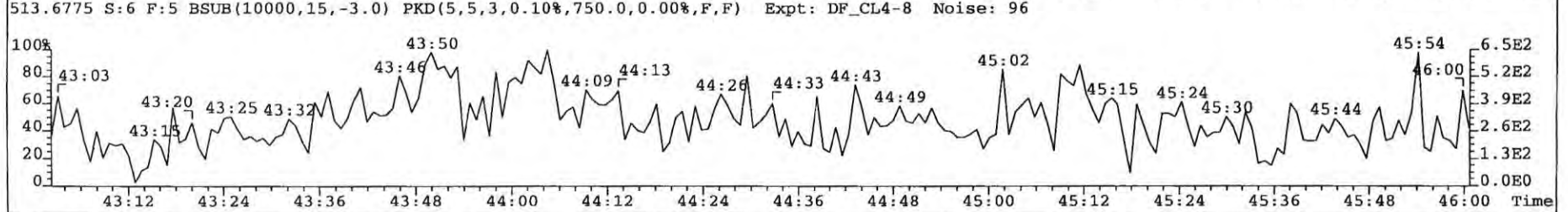
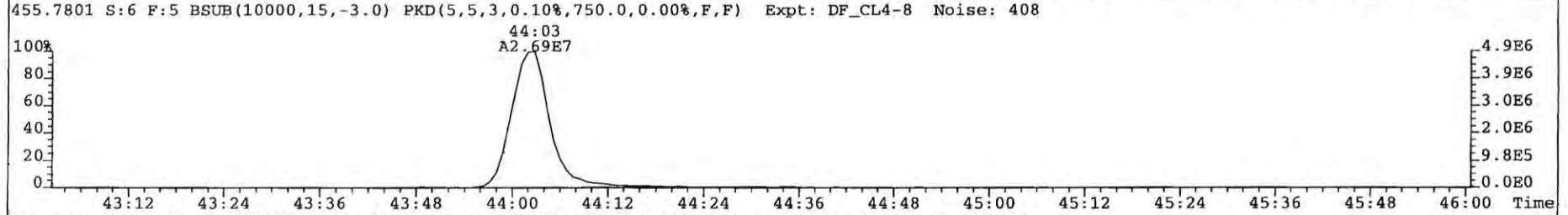
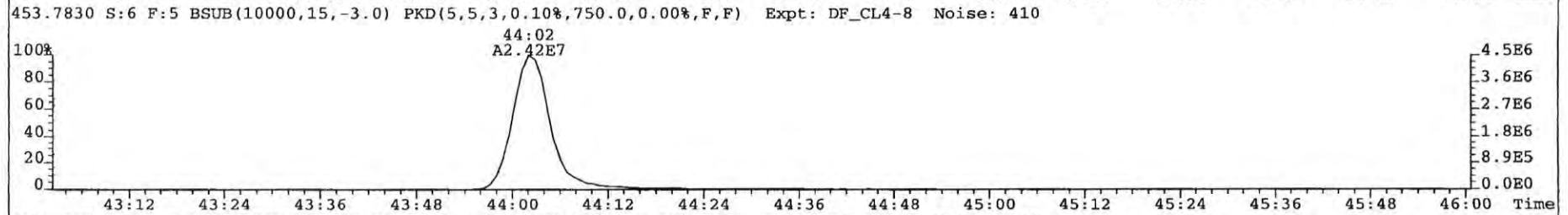
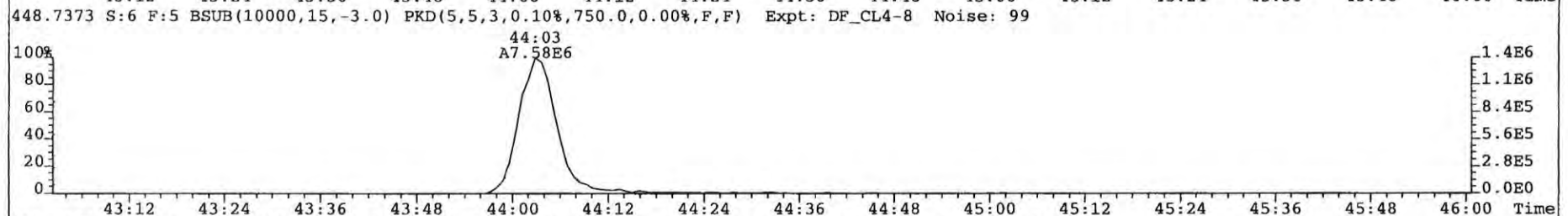
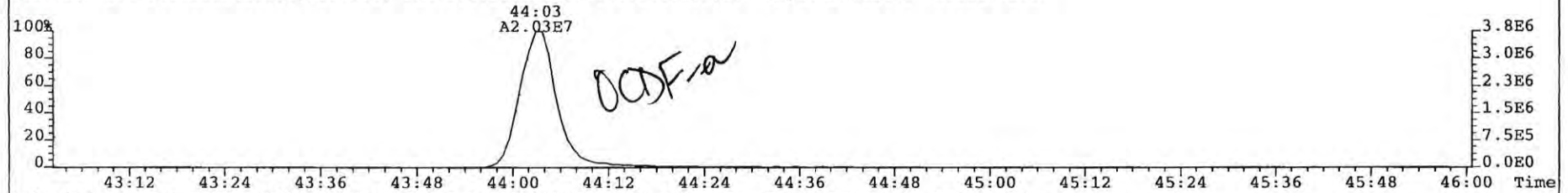


File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5  
441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 2530





File: 081225P1 Acq: 25-DEC-2008 14:23:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 6 Text: SIL7-25-2 NEW ICAL CS5 Vial# 21 File Text: AP DB5  
446.7402 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 270



*pm 30 Dec 08*

Calibration Summary

Analytical Perspectives

[Form: CAL]

Client ID: NEW STDS CS6 ✓  
 Lab ID: SIL7-25-1  
 Sample text: SIL7-25-1 NEW STDS CS6

Filename: 081225P1  
 GC Column ID: db-5

S: 7 ✓ Acq: 25-DEC-08 15:13:12  
 ICal: MM1\_DF\_07012007A\_25DEC08 Wt/Vol: 1.000  
 Vial: 22

*500pg/ml*

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Ax	2,3,7,8-TCDD	500.00	2.11e+08	0.79 y	27:05 ✓	1.16 ✓
2	Ax	1,2,3,7,8-PeCDD	2500.00	9.06e+08	1.62 y	32:41 ✓	1.05
3	Ax	1,2,3,4,7,8-HxCDD	2500.00	8.31e+08	1.25 y	36:38 ✓	1.12
4	Ax	1,2,3,6,7,8-HxCDD	2500.00	8.39e+08	1.26 y	36:45 ✓	0.99 ✓
5	Ax	1,2,3,7,8,9-HxCDD	2500.00	8.61e+08	1.25 y	37:03 ✓	1.04
6	Ax	1,2,3,4,6,7,8-HpCDD	2500.00	6.89e+08	1.07 y	40:15 ✓	1.03
7	Ax	OCDD	5000.00	1.13e+09	0.89 y	43:51 ✓	1.14 ✓
8	Ax2	OCDD-a	5000.00	6.83e+07	2.55 y	43:50	0.07
9	Ax	2,3,7,8-TCDF	500.00	3.13e+08	0.79 y	26:09 ✓	1.10 ✓
10	Ax	1,2,3,7,8-PeCDF	2500.00	1.44e+09	1.59 y	31:11 ✓	1.03
11	Ax	2,3,4,7,8-PeCDF	2500.00	1.52e+09	1.58 y	32:19 ✓	1.05
12	Ax	1,2,3,4,7,8-HxCDF	2500.00	1.26e+09	1.27 y	35:39 ✓	1.28 ✓
13	Ax	1,2,3,6,7,8-HxCDF	2500.00	1.49e+09	1.28 y	35:48 ✓	1.22
14	Ax	2,3,4,6,7,8-HxCDF	2500.00	1.27e+09	1.26 y	36:27 ✓	1.19
15	Ax	1,2,3,7,8,9-HxCDF	2500.00	1.12e+09	1.26 y	37:25 ✓	1.18 ✓
16	Ax	1,2,3,4,6,7,8-HpCDF	2500.00	1.14e+09	1.04 y	39:05 ✓	1.42
17	Ax	1,2,3,4,7,8,9-HpCDF	2500.00	9.39e+08	1.04 y	40:50 ✓	1.41
18	Ax	OCDF	5000.00	1.57e+09	0.92 y	44:04 ✓	0.97 ✓
19	Ax2	OCDF-a	5000.00	9.09e+07	2.67 y	44:04	0.06
20	ES	13C-2,3,7,8-TCDD	100.00	3.65e+07	0.81 y	27:04	1.04 ✓
21	ES	13C-1,2,3,7,8-PeCDD	100.00	3.44e+07	1.65 y	32:40	0.98
22	ES	13C-1,2,3,4,7,8-HxCDD	100.00	2.97e+07	1.29 y	36:37	1.26
23	ES	13C-1,2,3,6,7,8-HxCDD	100.00	3.38e+07	1.27 y	36:44	1.43 ✓
24	ES	13C-1,2,3,7,8,9-HxCDD	100.00	3.30e+07	1.27 y	37:02	1.40
25	ES	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.68e+07	1.07 y	40:14	1.14
26	ES	13C-OCDD	200.00	3.96e+07	0.89 y	43:49	0.84 ✓
27	ES	13C-2,3,7,8-TCDF	100.00	5.70e+07	0.80 y	26:08	1.00 ✓
28	ES	13C-1,2,3,7,8-PeCDF	100.00	5.56e+07	1.59 y	31:10	0.98
29	ES	13C-2,3,4,7,8-PeCDF	100.00	5.80e+07	1.60 y	32:18	1.02
30	ES	13C-1,2,3,4,7,8-HxCDF	100.00	3.94e+07	0.53 y	35:38	1.67 ✓
31	ES	13C-1,2,3,6,7,8-HxCDF	100.00	4.87e+07	0.54 y	35:47	2.07
32	ES	13C-2,3,4,6,7,8-HxCDF	100.00	4.27e+07	0.54 y	36:26	1.81
33	ES	13C-1,2,3,7,8,9-HxCDF	100.00	3.82e+07	0.54 y	37:24	1.62 ✓
34	ES	13C-1,2,3,4,6,7,8-HpCDF	100.00	3.21e+07	0.47 y	39:04	1.36
35	ES	13C-1,2,3,4,7,8,9-HpCDF	100.00	2.66e+07	0.46 y	40:48	1.13
36	ES	13C-OCDF	200.00	6.45e+07	0.91 y	44:03	1.37 ✓
37	CS	37C1-2,3,7,8-TCDD	500.00	*		NotF>	*
38	CS	13C-1,2,3,4,7-PeCDD	100.00	2.79e+07	1.72 y	32:09	0.80 ✓
39	CS	13C-1,2,3,4,6-PeCDF	100.00	4.56e+07	1.58 y	30:37	0.80
40	CS	13C-1,2,3,4,6,9-HxCDF	100.00	3.36e+07	0.54 y	36:05	1.43 ✓
41	CS	13C-1,2,3,4,6,8,9-HpCDF	100.00	2.14e+07	0.46 y	39:33	0.91 ✓
42	NA	n/a	100.00	*	* n	NotF>	*
43	JS/RT	13C-1,2,3,4-TCDD	100.00	3.51e+07	0.83 y	26:23	3.51e+05
44	JS	13C-1,2,3,4-TCDF	100.00	5.70e+07	0.78 y	24:42	5.70e+05
45	JS/RT	13C-1,2,3,4,6,7-HxCDD	50.00	1.18e+07	1.29 y	36:55	2.36e+05

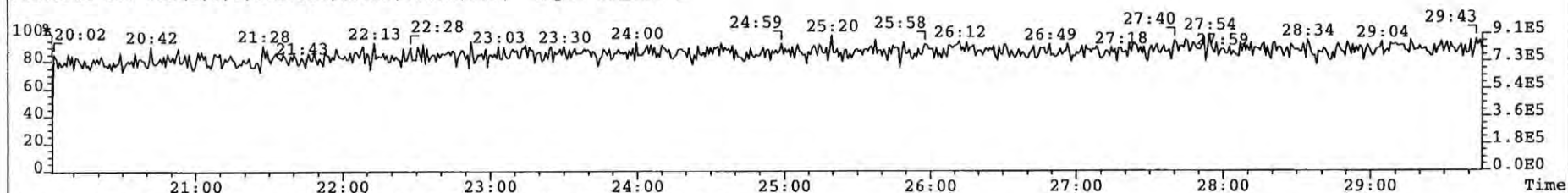
*✓ calc.*

Analyst: *[Signature]*  
 Date: *25 Dec 08*

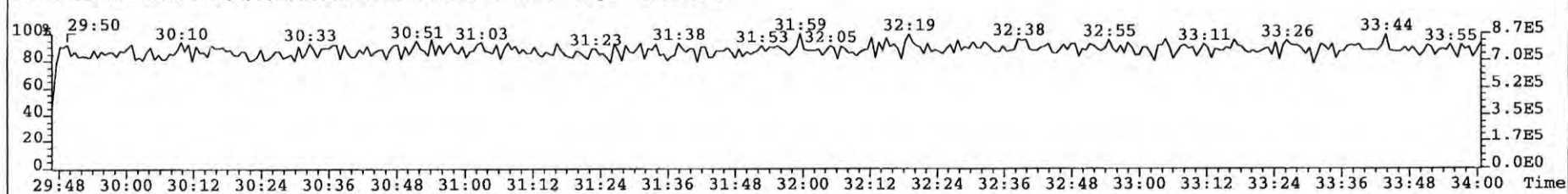
46	SS	37Cl-2,3,7,8-TCDD	500.00	*		NotF>>	-	*
47	SS	13C-1,2,3,4,7-PeCDD	100.00	2.79e+07	1.72 y	32:09	-	0.81
48	SS	13C-1,2,3,4,6-PeCDF	100.00	4.56e+07	1.58 y	30:37	-	0.82 ✓
49	SS	13C-1,2,3,4,6,9-HxCDF	100.00	3.36e+07	0.54 y	36:05	-	0.69
50	SS	13C-1,2,3,4,6,8,9-HpCDF	100.00	2.14e+07	0.46 y	39:33	-	0.67 ✓
51	SBS	2,4,6,8-TCDF	-	-	- n	-	-	1.10 ✓
52	Ay	1,3,6,8-TCDD	-	-	- n	-	-	1.16 ✓
53	Ay	1,2,3,9-TCDD	-	-	- n	-	-	1.16
54	Ay	1,2,8,9-TCDD	-	-	- n	-	-	1.16
55	Ay	1,2,4,7,9-PeCDD	-	-	- n	-	-	1.05
56	Ay	1,2,3,8,9-PeCDD	-	-	- n	-	-	1.05
57	Ay	1,2,4,6,7,9-HxCDD	-	-	- n	-	-	1.05 ✓
58	Ay	1,2,3,4,6,7,9-HpCDD	-	-	- n	-	-	1.03
59	Ay	1,3,6,8-TCDF	-	-	- n	-	-	1.10 -
60	Ay	2,3,4,8-TCDF	-	-	- n	-	-	1.10
61	Ay	1,2,8,9-TCDF	-	-	- n	-	-	1.10
62	Ay	1,3,4,6,8-PeCDF	-	-	- n	-	-	1.10
63	Ay	1,2,3,8,9-PeCDF	-	-	- n	-	-	1.04 ✓
64	Ay	1,2,3,4,6,8-HxCDF	-	-	- n	-	-	1.22 ✓
65	Tot	Total Tetra-Dioxins	-	-	- n	-	-	1.16
66	Tot	Total Penta-Dioxins	-	-	- n	-	-	1.05
67	Tot	Total Hexa-Dioxins	-	-	- n	-	-	1.05
68	Tot	Total Hepta-Dioxins	-	-	- n	-	-	1.03
69	Tot	Total Tetra-Furans	-	-	- n	-	-	1.10
70	Tot	Total Penta-Furans	-	-	- n	-	-	1.04
71	Tot	Total Hexa-Furans	-	-	- n	-	-	1.22
72	Tot	Total Hepta-Furans	-	-	- n	-	-	1.42
73	Tot	TCDD EMPC	-	-	- n	-	-	1.16
74	Tot	PeCDD EMPC	-	-	- n	-	-	1.05
75	Tot	HxCDD EMPC	-	-	- n	-	-	1.05
76	Tot	HpCDD EMPC	-	-	- n	-	-	1.03
77	Tot	TCDF EMPC	-	-	- n	-	-	1.10
78	Tot	PeCDF EMPC	-	-	- n	-	-	1.04
79	Tot	HxCDF EMPC	-	-	- n	-	-	1.22
80	Tot	HpCDF EMPC	-	-	- n	-	-	1.42
81	AS	13C-1,3,6,8-TCDD	100.00	3.90e+07	0.83 y	23:08	-	1.11 ✓
82	AS	13C-1,3,6,8-TCDF	100.00	6.30e+07	0.78 y	20:56	-	1.11 ✓
83	DPE	HxCDPE	-	3.79e+04		21:06	-	-
84	DPE	HpCDPE	-	5.22e+04		30:10	-	-
85	DPE	OCdPE	-	5.00e+04		35:41	-	-
86	DPE	NCDPE	-	2.59e+04		38:42	-	-
87	DPE	DCDPE	-	*		NotF>>	-	-
88	LMC	Fn1 check mass	-	*		NotF>>	-	-
89	LMC	Fn2 check mass	-	*		NotF>>	-	-
90	LMC	Fn3 check mass	-	*		NotF>>	-	-
91	LMC	Fn4 check mass	-	*		NotF>>	-	-
92	LMC	Fn5 check mass	-	*		NotF>>	-	-



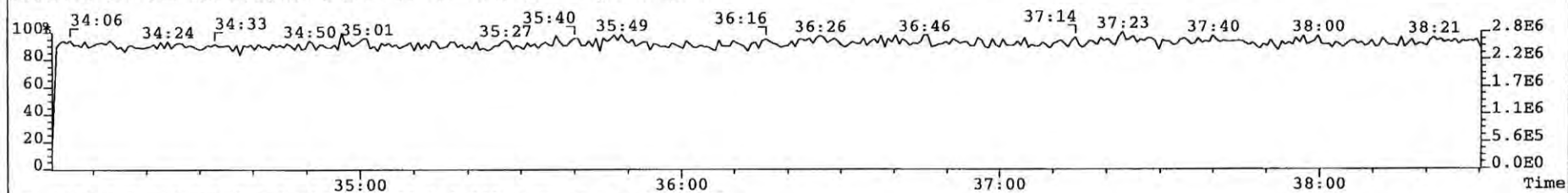
File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5  
316.9824 S:7 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



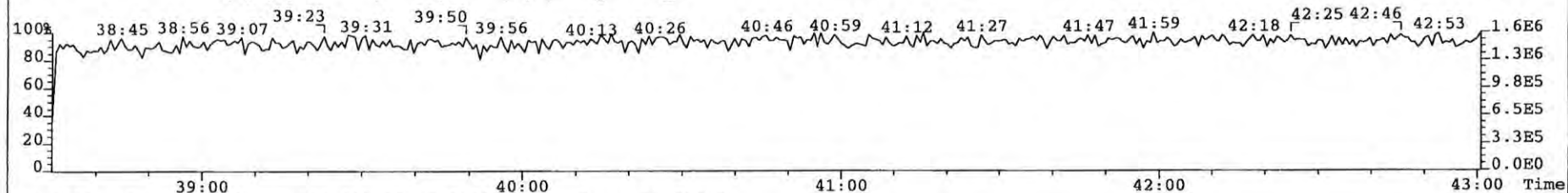
366.9792 S:7 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



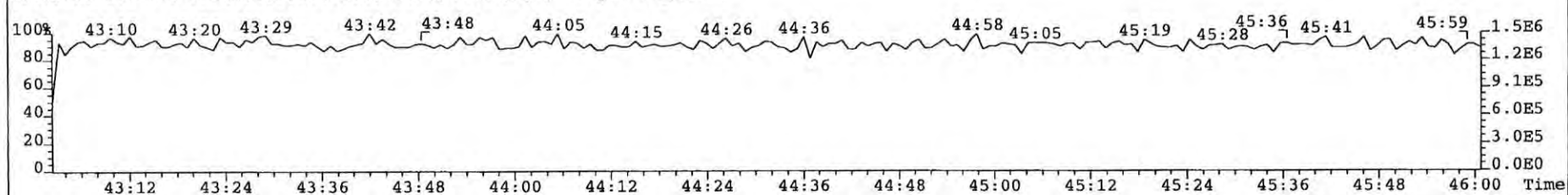
380.9760 S:7 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



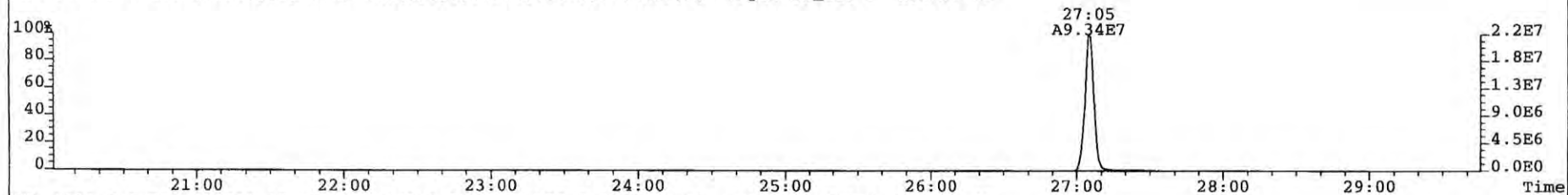
430.9728 S:7 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



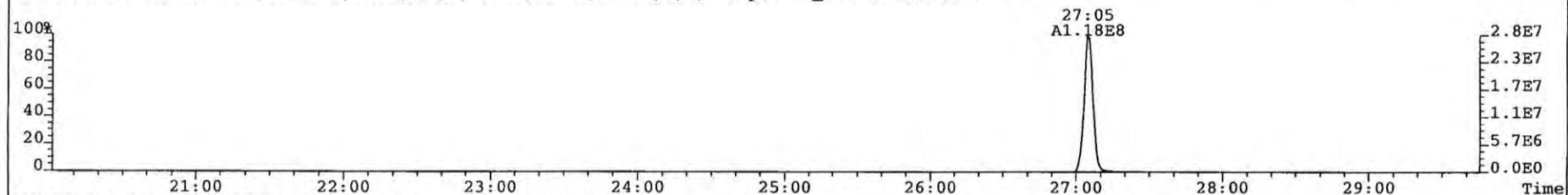
454.9728 S:7 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



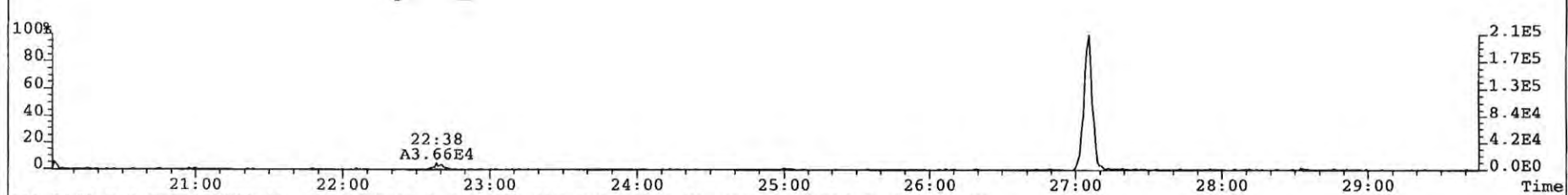
File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5  
319.8965 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 83



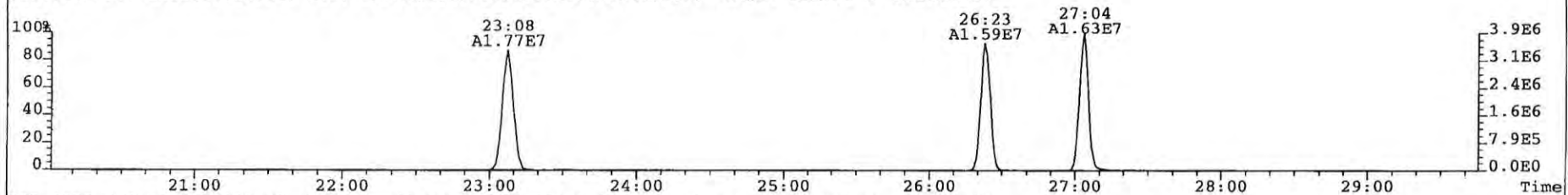
321.8936 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 67



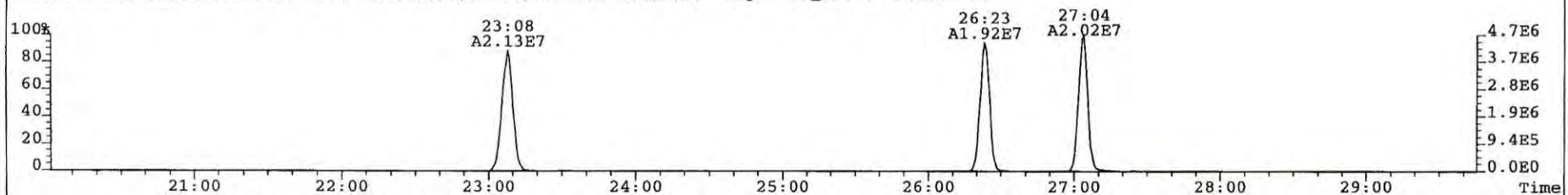
327.8850 S:7 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 89



331.9368 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 95



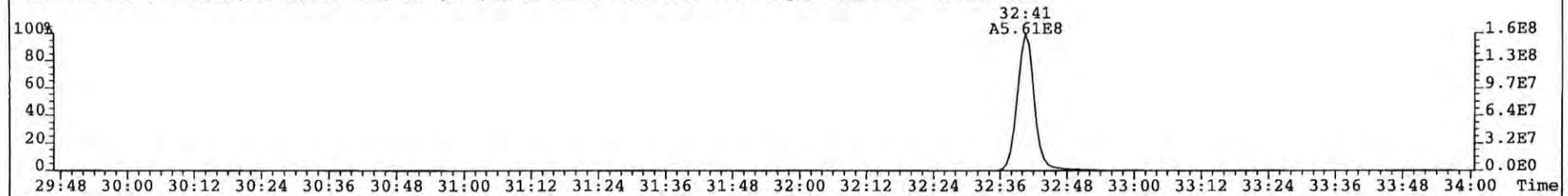
333.9339 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 96



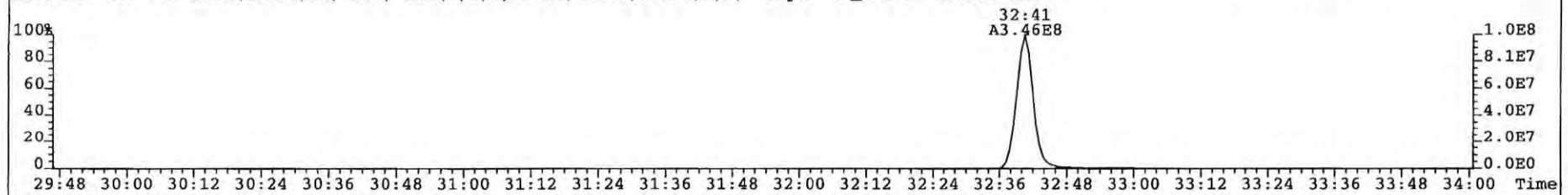
File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5

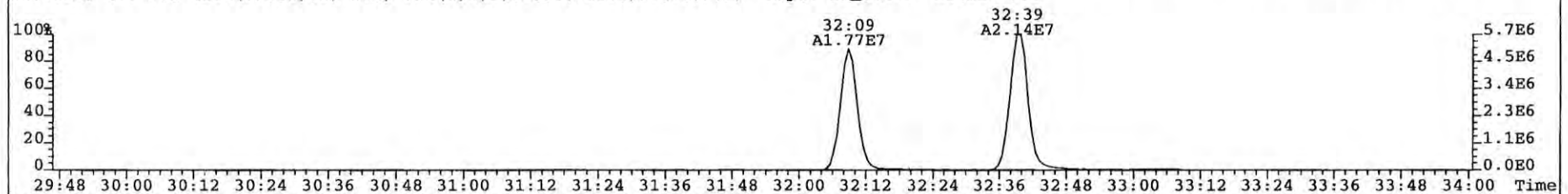
355.8546 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 558



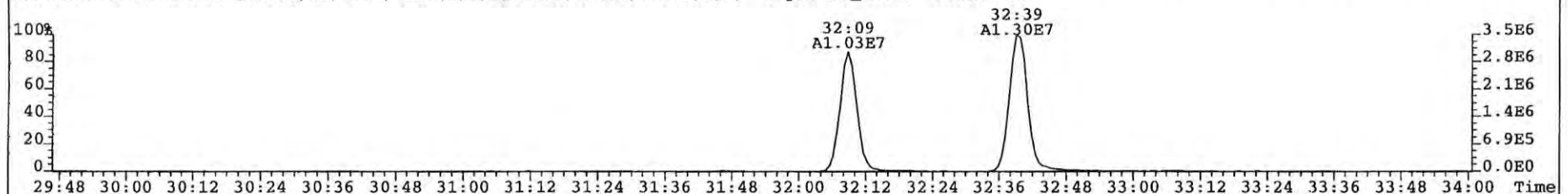
357.8517 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 235



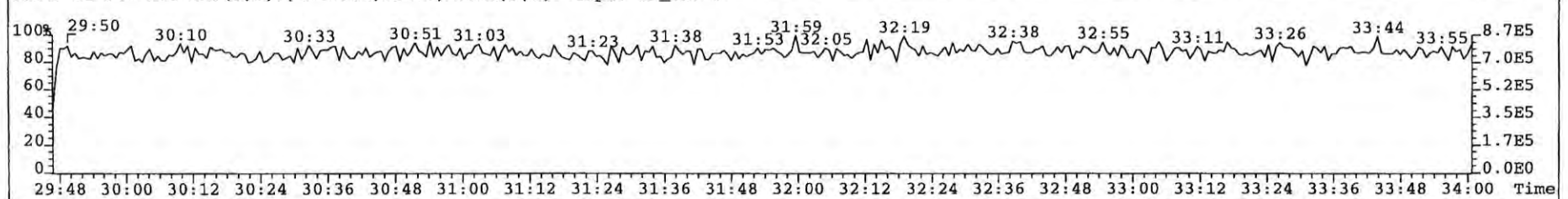
367.8949 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 111



369.8919 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 95



366.9792 S:7 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

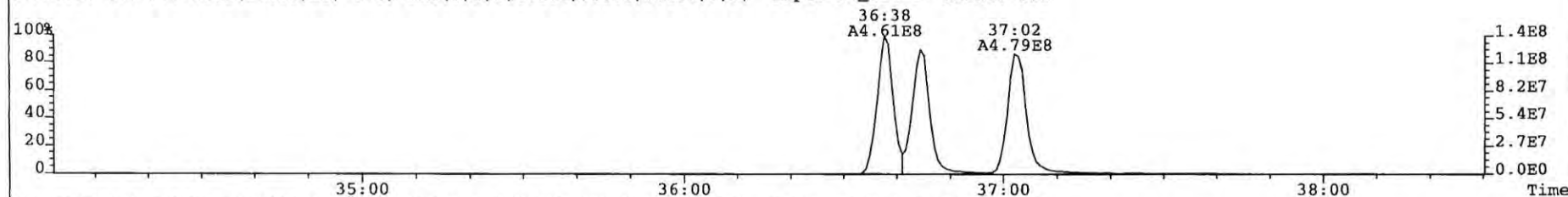




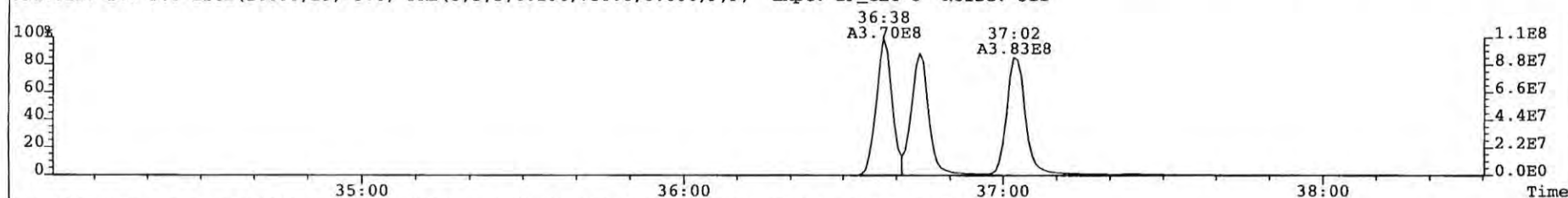
File: 081225F1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5

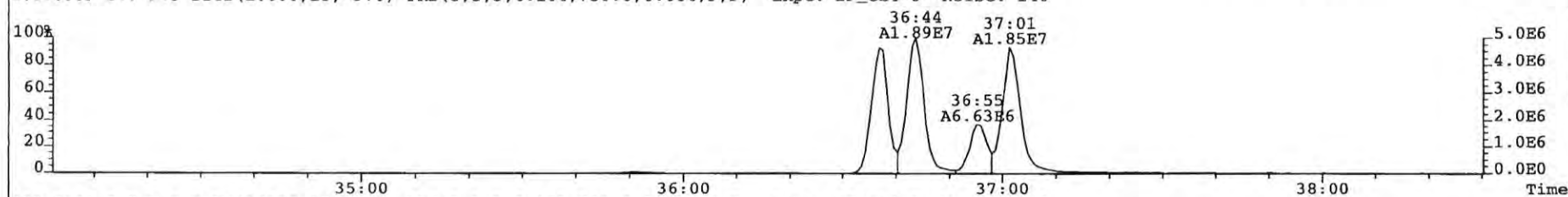
389.8156 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 252



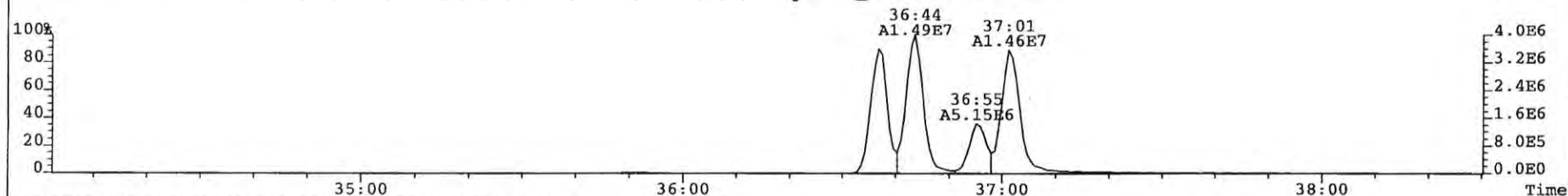
391.8127 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 311



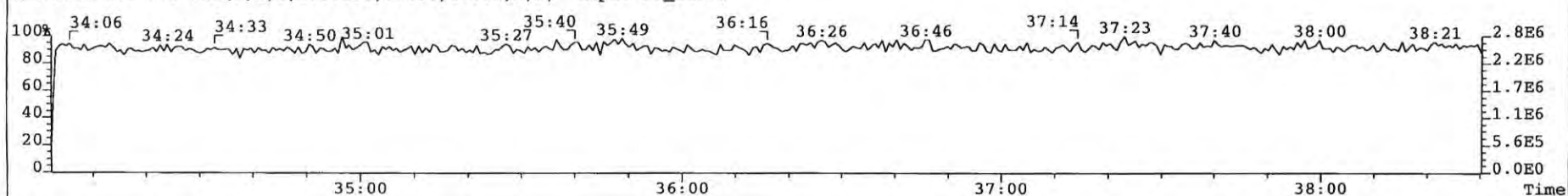
401.8559 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 140



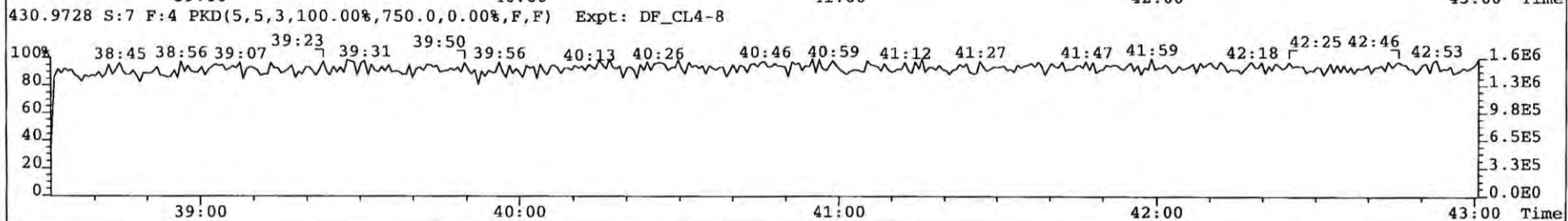
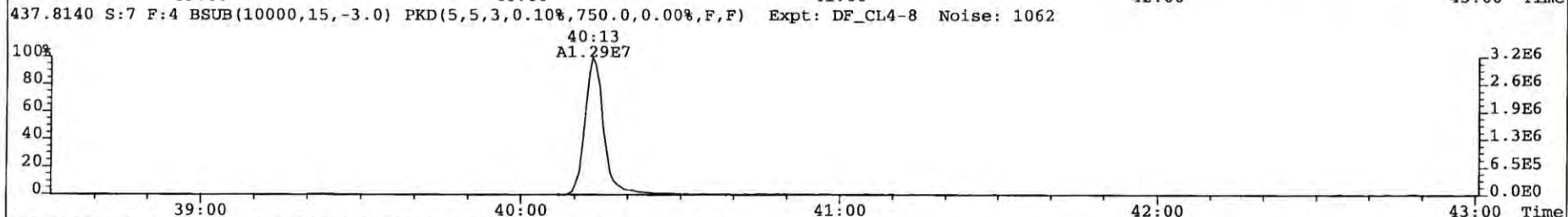
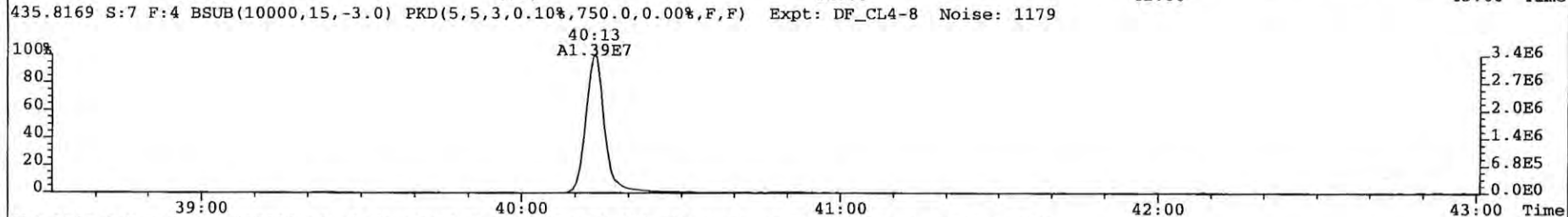
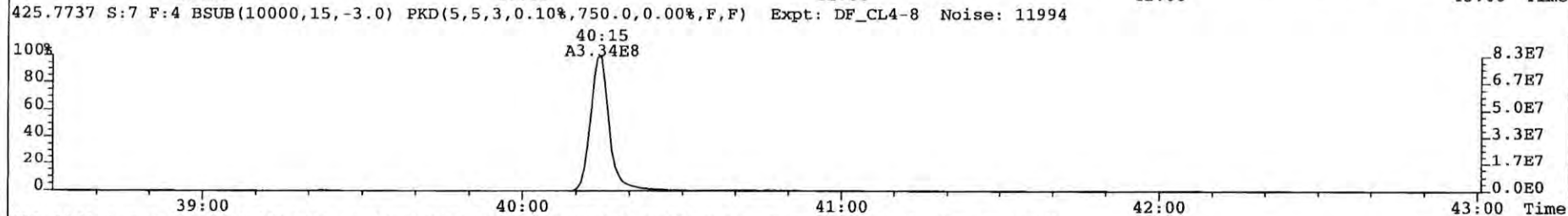
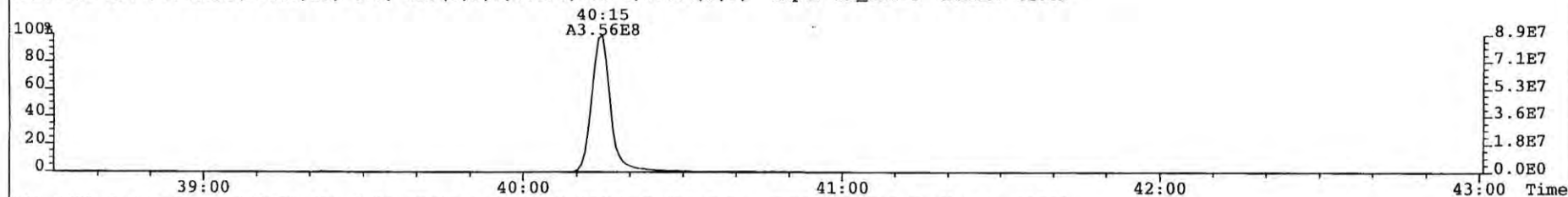
403.8530 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 119



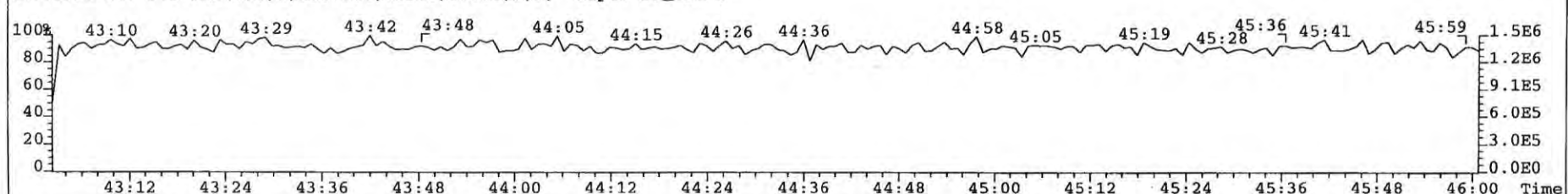
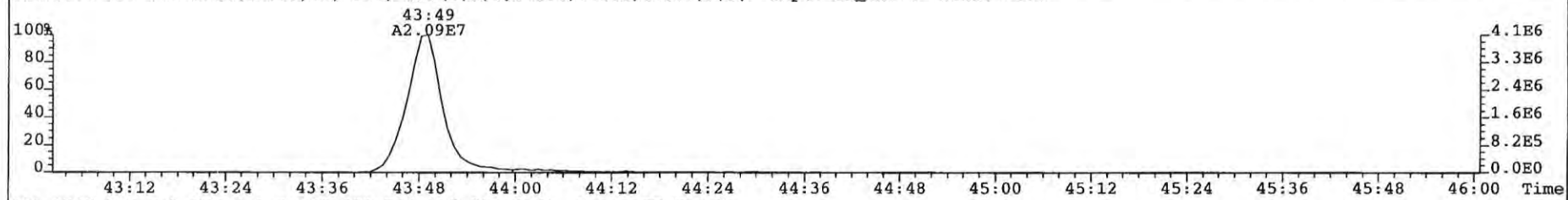
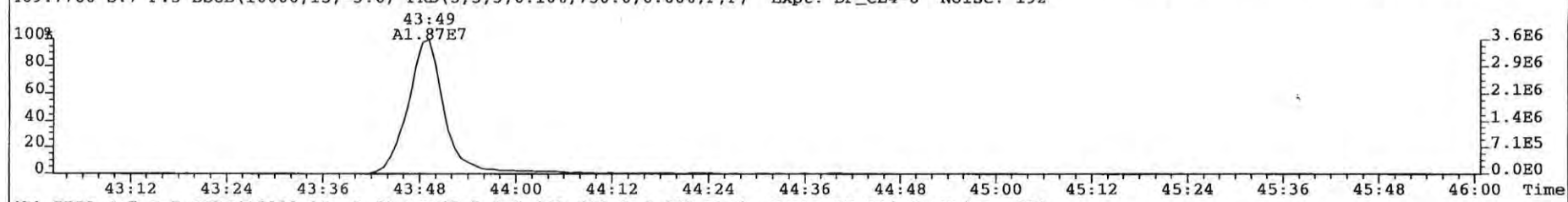
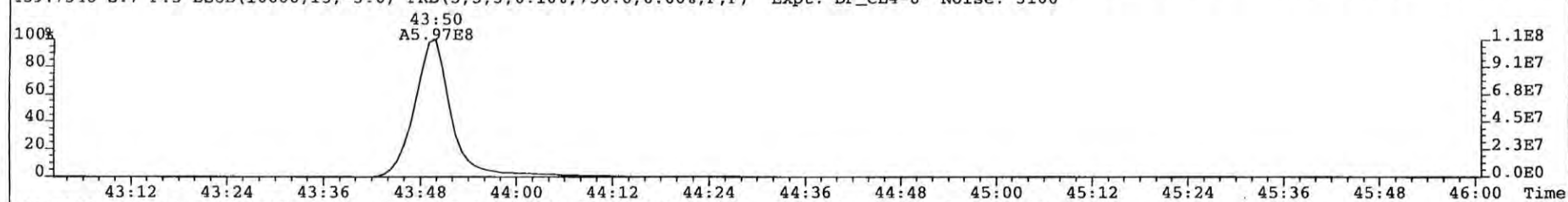
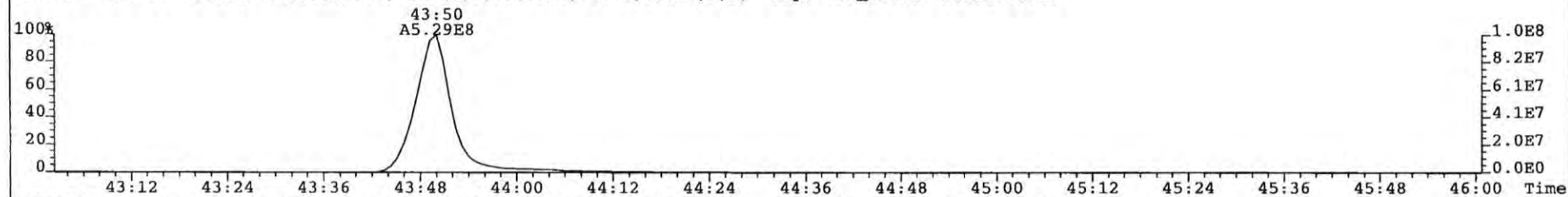
380.9760 S:7 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



File: 081225F1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5  
423.7767 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 11889

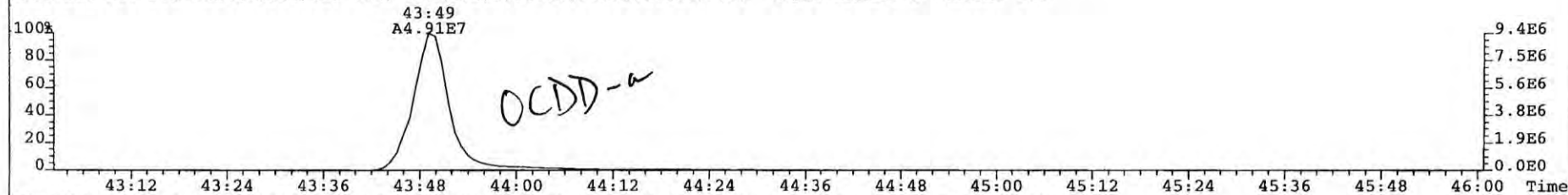


File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5  
457.7377 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 3948

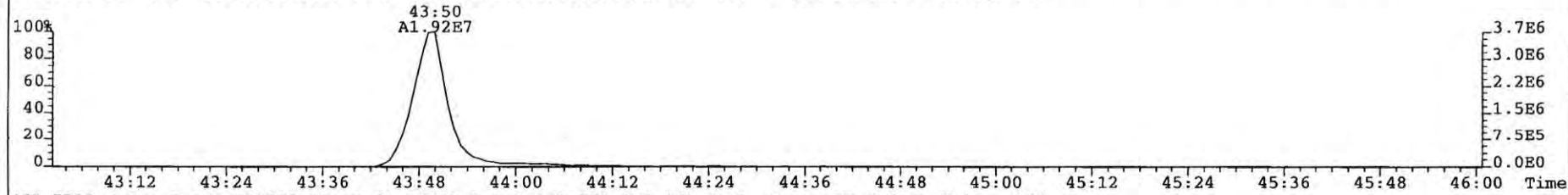




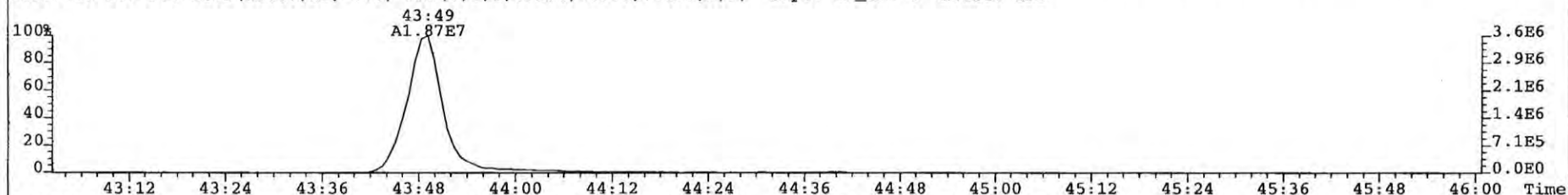
File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5  
462.7352 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 962



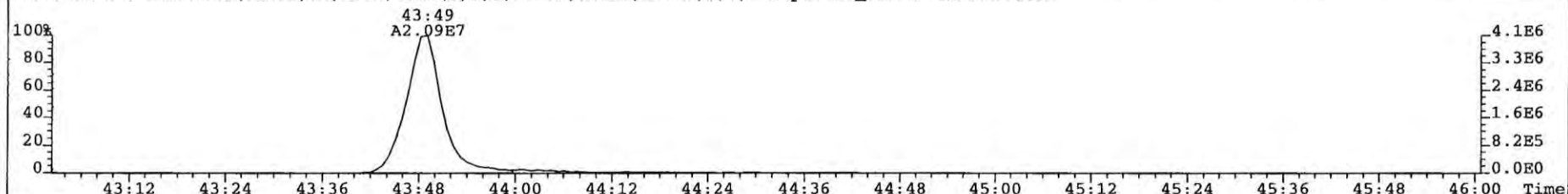
464.7322 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 340



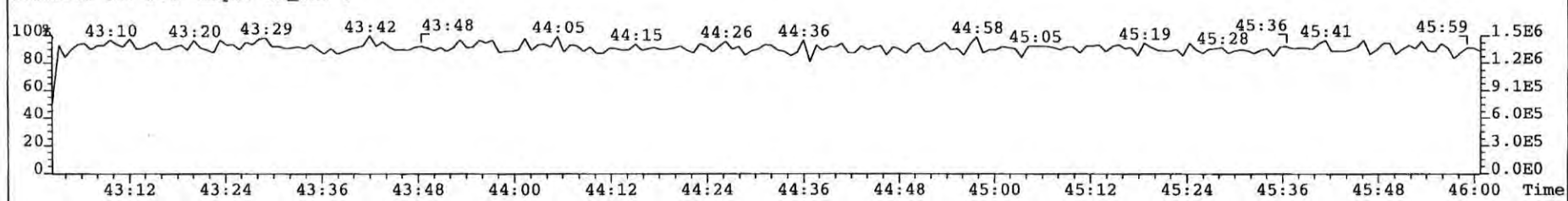
469.7780 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 192



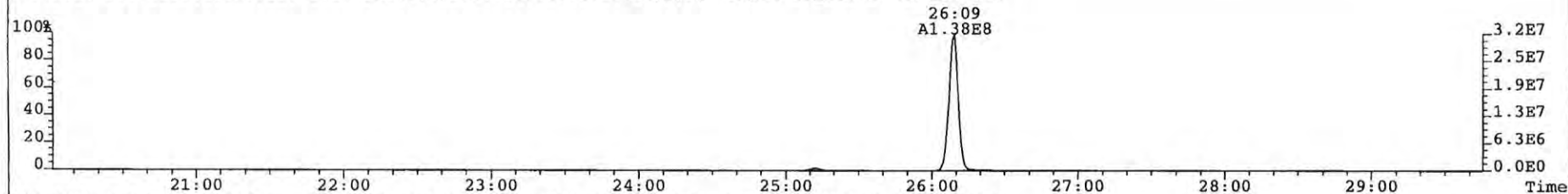
471.7750 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 566



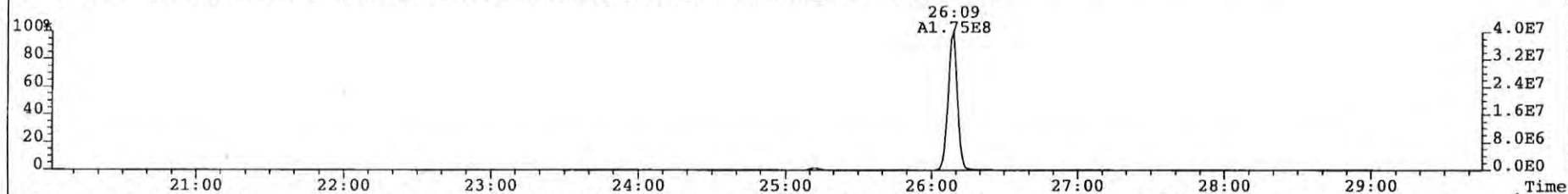
454.9728 S:7 F:5 Expt: DF\_CL4-8



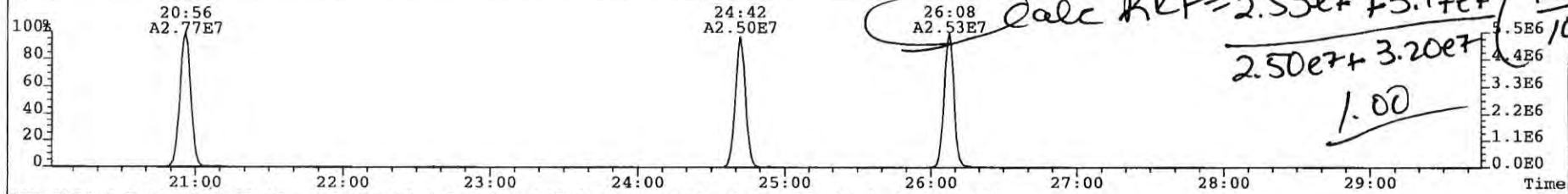
File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5  
303.9016 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 611



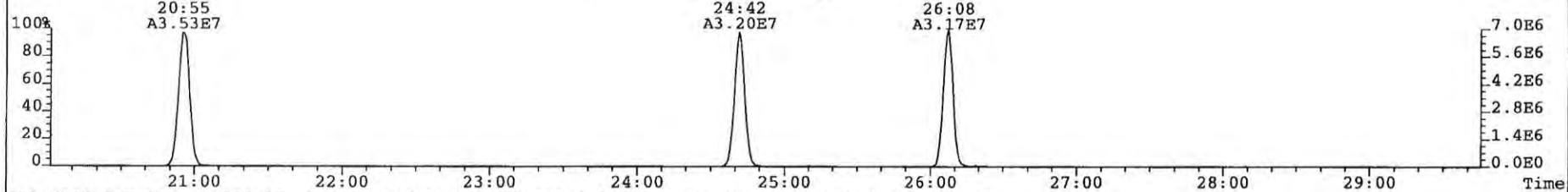
305.8987 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 567



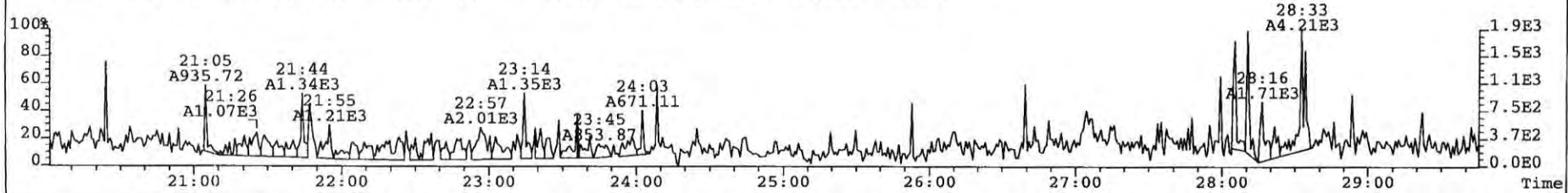
315.9419 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 89



317.9389 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 118

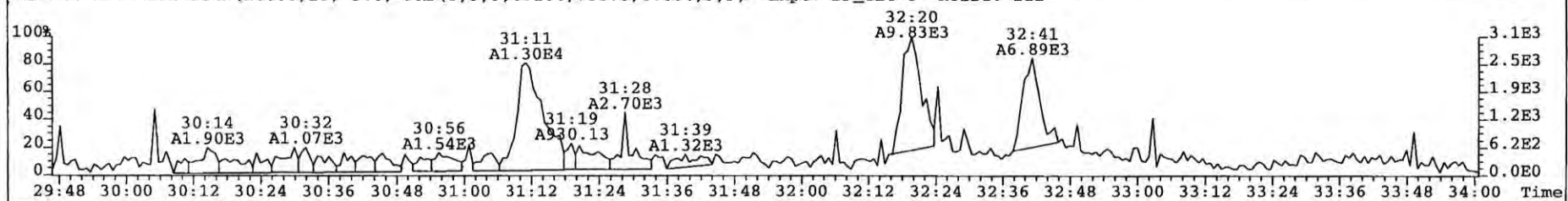
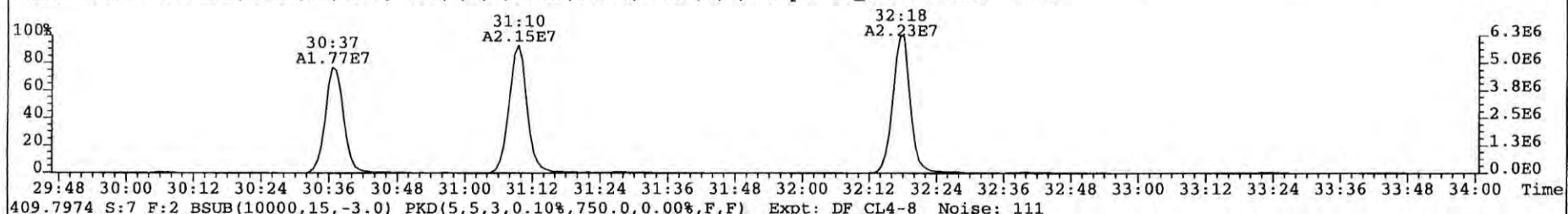
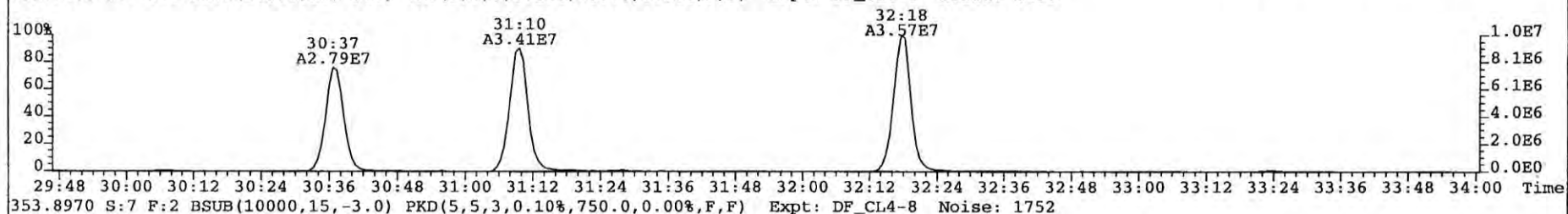
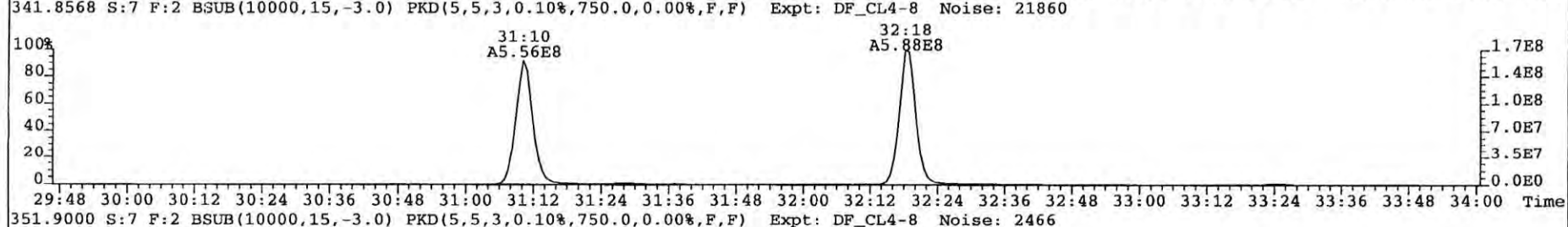
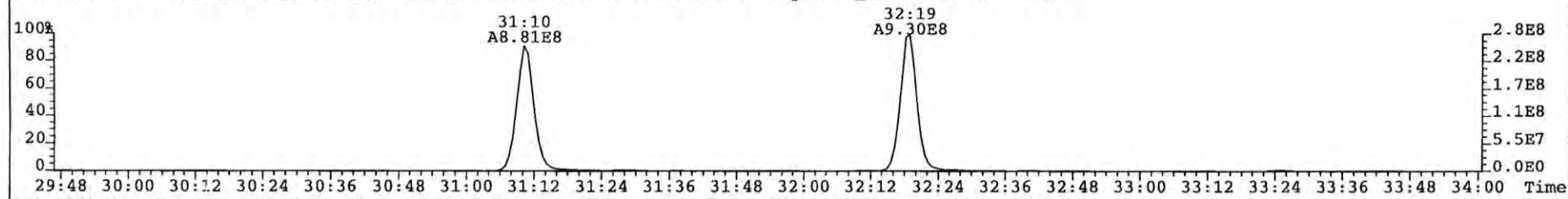


375.8364 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 86



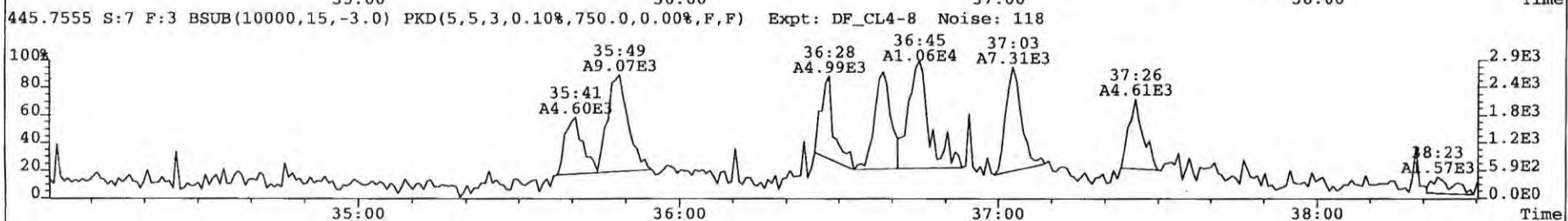
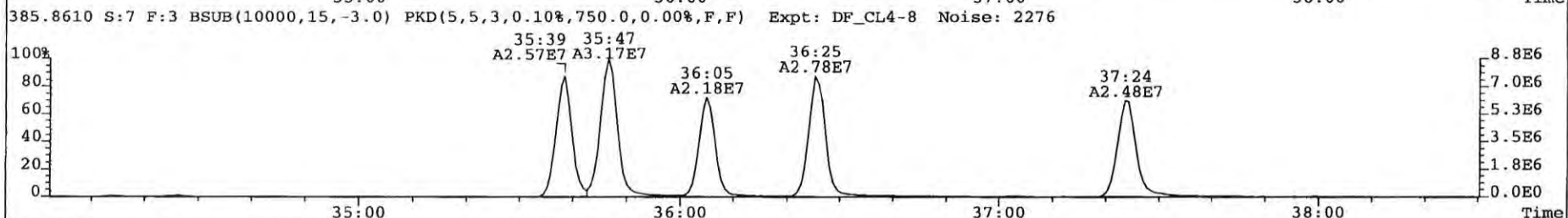
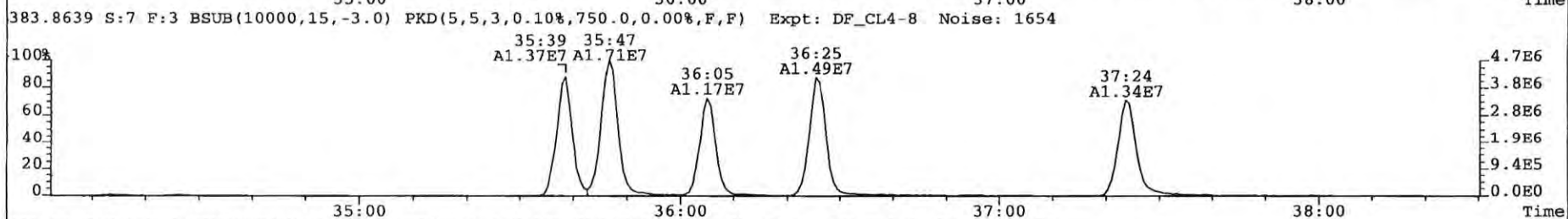
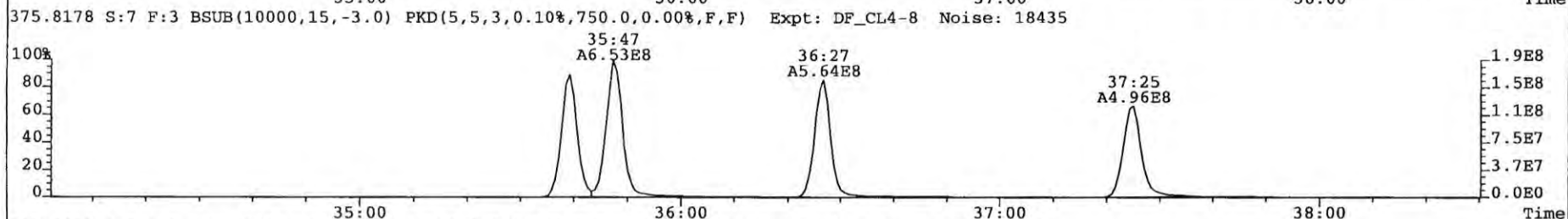
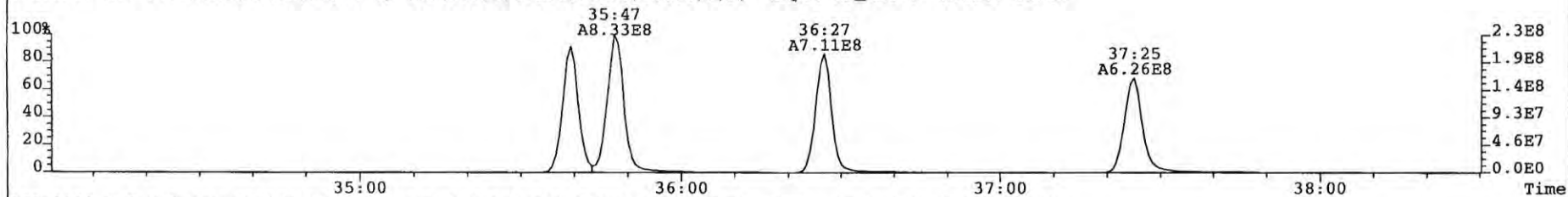


File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5  
339.8597 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 3480

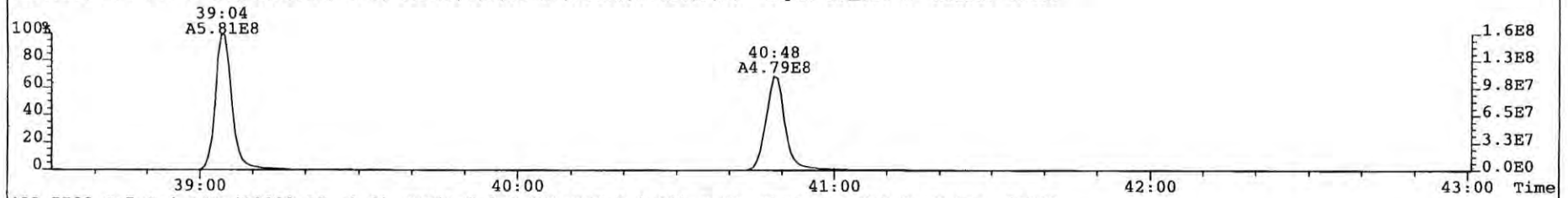




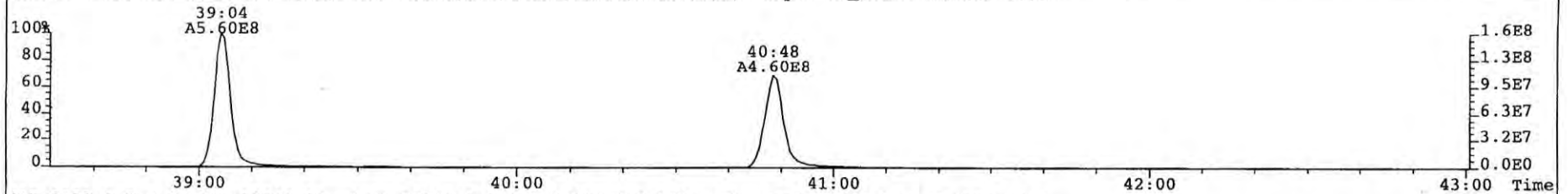
File: 081225P1 Acq: 25-DEC-2008 15:18:12 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5  
373.8207 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 12923



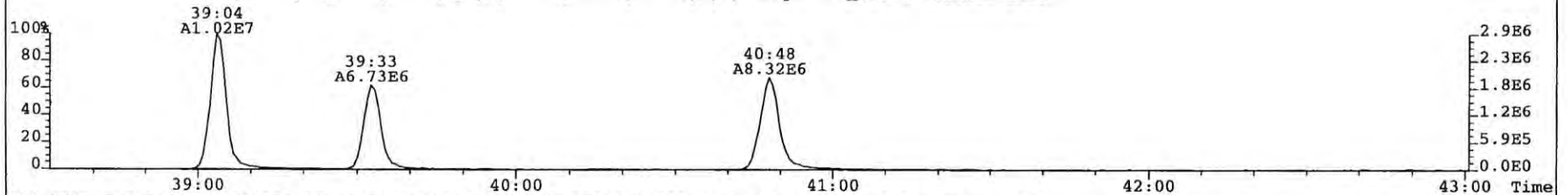
File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5  
407.7818 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 17438



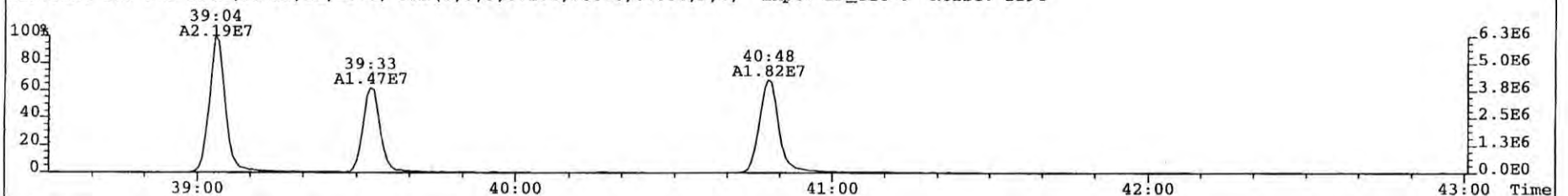
409.7788 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 15337



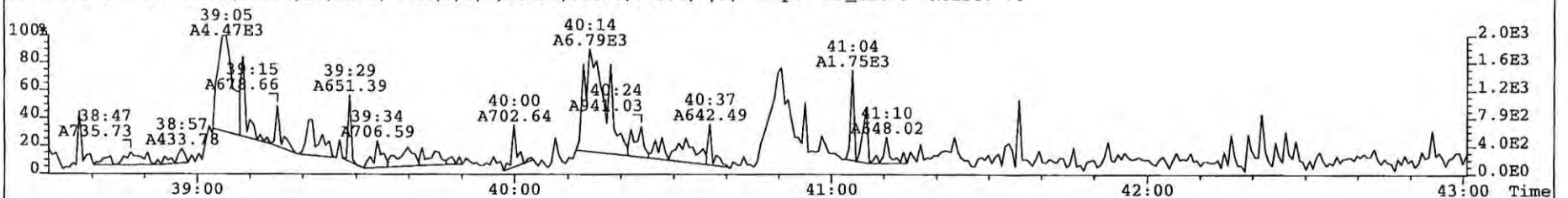
417.8253 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 1525



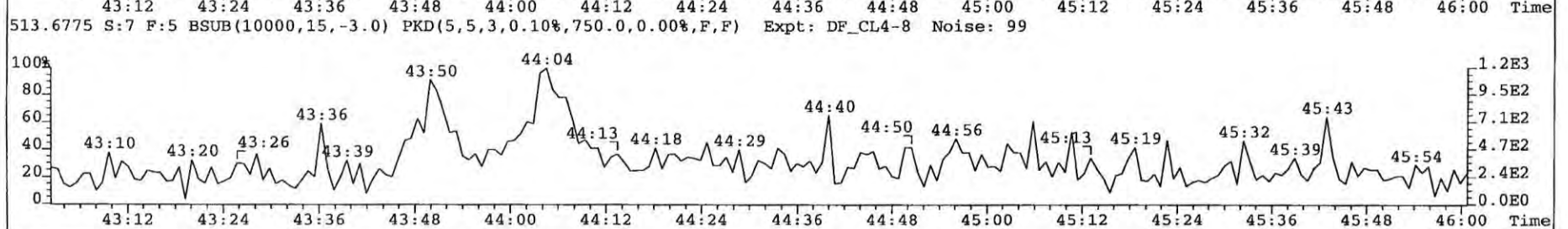
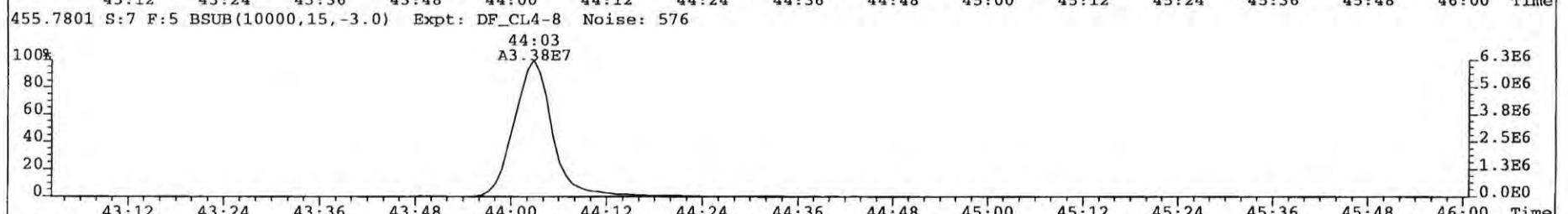
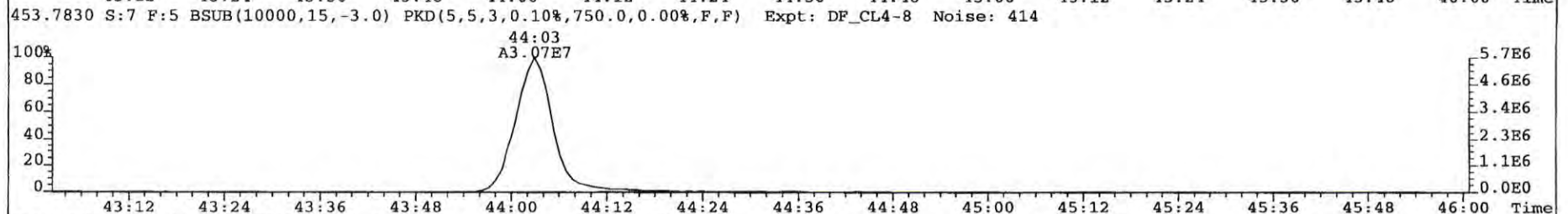
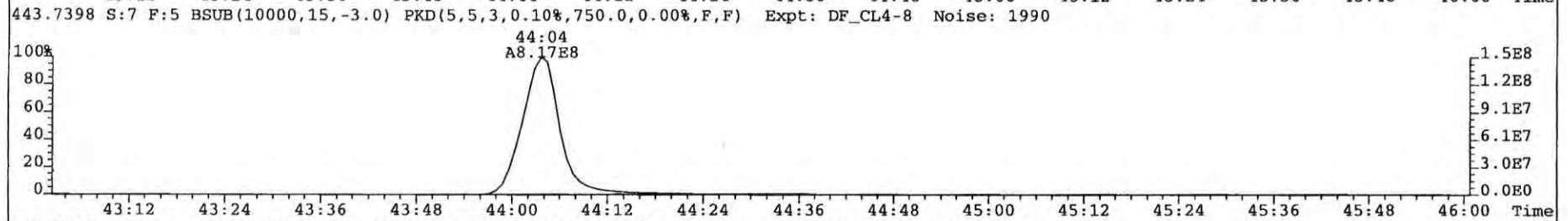
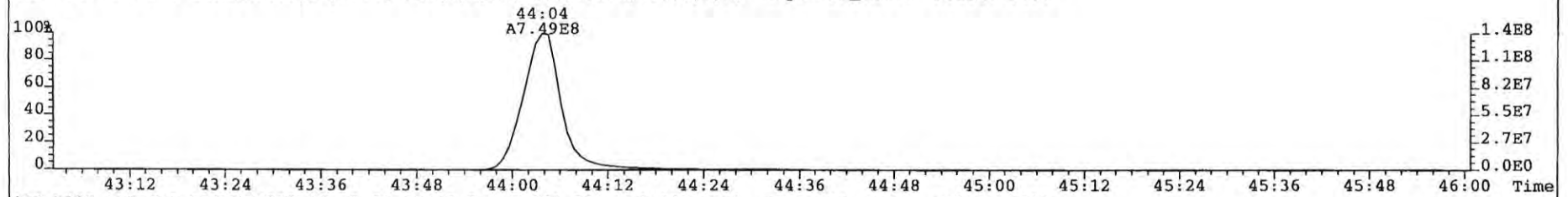
419.8220 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 2294



479.7165 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 70

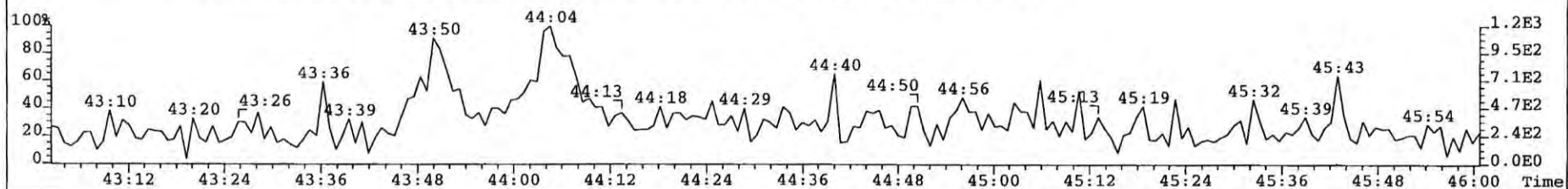
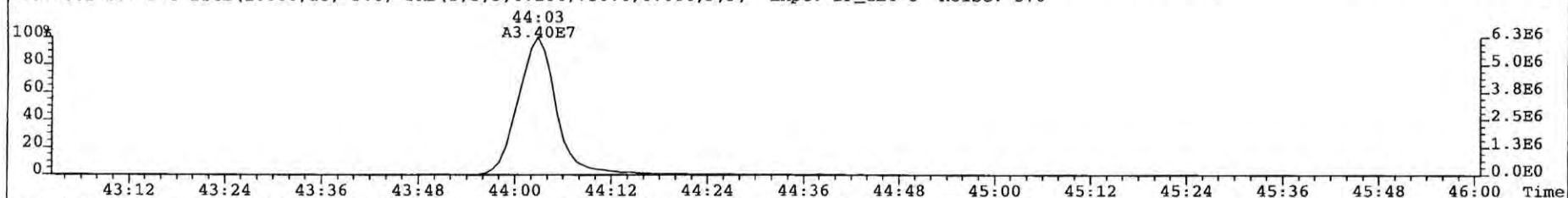
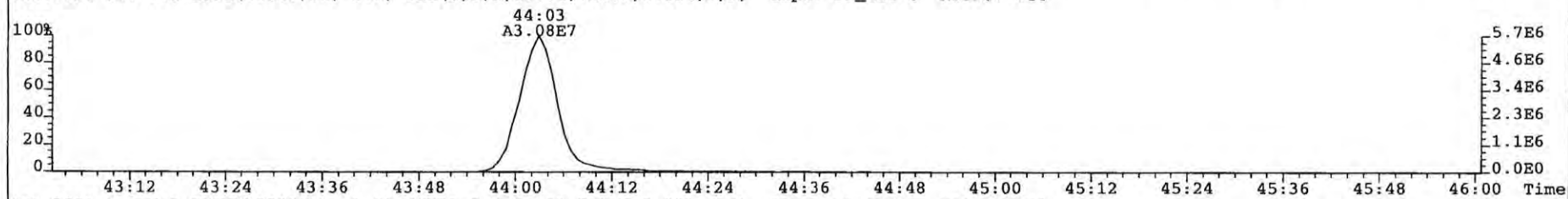
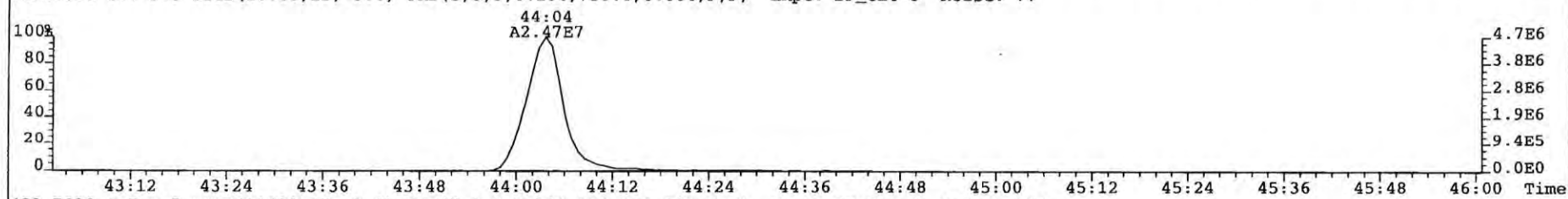
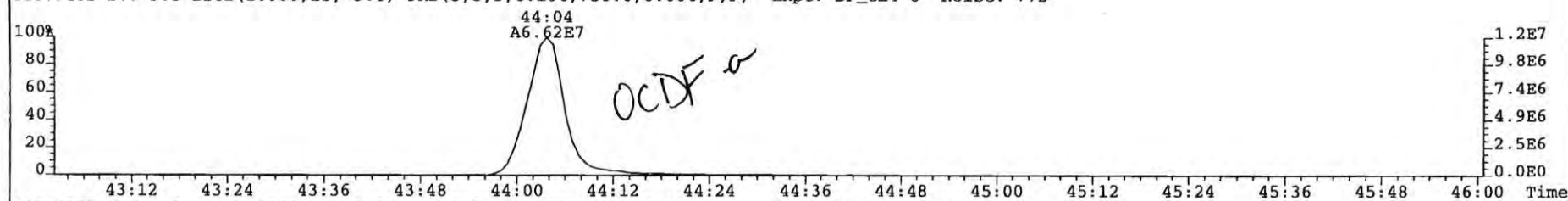


File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5  
441.7428 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 5486





File: 081225P1 Acq: 25-DEC-2008 15:13:12 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 7 Text: SIL7-25-1 NEW STDS CS6 Vial# 22 File Text: AP DB5  
446.7402 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 772





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

Lab Name: Analytical Perspectives Episode No.:  
 Contract No.: SAS No.:  
 Matrix (aqueous/solid/leachate): OPR Data Filename:  
 Ext. Date: Shift: Analysis Date: 25-MAR-09 Time: 15:10:08 ✓

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

LABELED COMPOUNDS	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL) ✓
13C-2,3,7,8-TCDD	100	70.0	20.0 - 175.0
13C-1,2,3,7,8-PeCDD	100	68.7	21.0 - 227.0
13C-1,2,3,4,7,8-HxCDD	100	75.8	21.0 - 193.0
13C-1,2,3,6,7,8-HxCDD	100	80.2	25.0 - 163.0
13C-1,2,3,7,8,9-HxCDD	100	81.2	26.0 - 166.0
13C-1,2,3,4,6,7,8-HpCDD	100	75.3	26.0 - 166.0
13C-OCDD	200	125.6	26.0 - 397.0
13C-2,3,7,8-TCDF	100	77.7	22.0 - 152.0
13C-1,2,3,7,8-PeCDF	100	70.4	21.0 - 192.0
13C-2,3,4,7,8-PeCDF	100	73.2	13.0 - 328.0
13C-1,2,3,4,7,8-HxCDF	100	72.0	19.0 - 202.0
13C-1,2,3,6,7,8-HxCDF	100	69.9	21.0 - 159.0
13C-2,3,4,6,7,8-HxCDF	100	76.8	22.0 - 176.0
13C-1,2,3,7,8,9-HxCDF	100	72.3	17.0 - 205.0
13C-1,2,3,4,6,7,8-HpCDF	100	69.8	21.0 - 158.0
13C-1,2,3,4,7,8,9-HpCDF	100	69.6	20.0 - 186.0
13C-OCDF	200	129.7	26.0 - 397.0
CLEANUP STANDARD			
37Cl-2,3,7,8-TCDD	40	29.3	12.4 - 76.4

Analyst: M

Date: 02/04/09

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




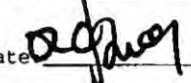
1613/8290 Sample Summary

Analytical Perspectives

[Form: DF]

Client ID: 0\_6679\_OPR001      Filename: 090325P1      S: 2      Vial: 17      Acq: 25-MAR-09 15:10:08  
 Lab ID: OPR1\_6679\_DF      GC column ID: db-5      Cal: MM1\_DF\_07012007A\_25DEC08Wt/Vol: 1.000  
 Sample text: OPR1\_6679\_DF 0\_6679\_OPR001      Stds: JS (split adj.): 100      CS/SS: 40.0      ES: 100

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	4.50e+06	0.81 y	27:18	1.08	9.12	1234	2.5	0.0476	-
Ax	1,2,3,7,8-PeCDD	1.75e+07	1.60 y	32:51	1.00	46.5	4295	2.5	0.264	-
Ax	1,2,3,4,7,8-HxCDD	1.52e+07	1.26 y	36:47	1.08	47.2	5977	2.5	0.390	-
Ax	1,2,3,6,7,8-HxCDD	1.69e+07	1.16 y	36:54	0.94	50.3	5977	2.5	0.384	-
Ax	1,2,3,7,8,9-HxCDD	1.60e+07	1.22 y	37:13	0.99	45.3	5977	2.5	0.394	-
Ax	1,2,3,4,6,7,8-HpCDD	1.21e+07	1.05 y	40:24	0.97	46.6	2916	2.5	0.236	-
Ax	OCDD	1.55e+07	0.89 y	44:01	1.06	97.8	3586	2.5	0.540	-
Ax2	OCDD-a	9.63e+05	2.78 y	44:00	0.06	102	421	2.5	1.06	-
Ax	2,3,7,8-TCDF	7.04e+06	0.76 y	26:23	1.05	9.91	2688	2.5	0.0736	-
Ax	1,2,3,7,8-PeCDF	2.59e+07	1.64 y	31:21	0.98	47.8	6398	2.5	0.275	-
Ax	2,3,4,7,8-PeCDF	2.82e+07	1.60 y	32:29	1.01	47.0	6398	2.5	0.243	-
Ax	1,2,3,4,7,8-HxCDF	2.15e+07	1.27 y	35:49	1.22	46.1	9172	2.5	0.255	-
Ax	1,2,3,6,7,8-HxCDF	2.40e+07	1.26 y	35:57	1.15	46.5	9172	2.5	0.258	-
Ax	2,3,4,6,7,8-HxCDF	2.45e+07	1.23 y	36:36	1.13	48.5	9172	2.5	0.249	-
Ax	1,2,3,7,8,9-HxCDF	1.94e+07	1.28 y	37:35	1.12	47.5	9172	2.5	0.367	-
Ax	1,2,3,4,6,7,8-HpCDF	2.04e+07	1.06 y	39:13	1.37	50.9	3188	2.5	0.109	-
Ax	1,2,3,4,7,8,9-HpCDF	1.51e+07	1.03 y	40:59	1.32	49.2	3188	2.5	0.159	-
Ax	OCDF	2.19e+07	0.90 y	44:15	0.94	95.6	4549	2.5	0.501	-
Ax2	OCDF-a	1.18e+06	2.34 y	44:15	0.05	91.7	347	2.5	0.679	-
ES	13C-2,3,7,8-TCDD	4.55e+07	0.82 y	27:17	0.99	70.0	1335	2.5	0.0412	70.0
ES	13C-1,2,3,7,8-PeCDD	3.76e+07	1.60 y	32:50	0.83	68.7	9030	2.5	0.332	68.7
ES	13C-1,2,3,4,7,8-HxCDD	2.97e+07	1.28 y	36:46	1.08	75.8	14677	2.5	0.785	75.8
ES	13C-1,2,3,6,7,8-HxCDD	3.55e+07	1.26 y	36:53	1.23	80.2	14677	2.5	0.694	80.2
ES	13C-1,2,3,7,8,9-HxCDD	3.55e+07	1.24 y	37:11	1.21	81.2	14677	2.5	0.703	81.2
ES	13C-1,2,3,4,6,7,8-HpCDD	2.68e+07	1.08 y	40:23	0.98	75.3	5766	2.5	0.340	75.3
ES	13C-OCDD	2.99e+07	0.89 y	44:00	0.66	126	5893	2.5	0.518	62.8
ES	13C-2,3,7,8-TCDF	6.79e+07	0.78 y	26:21	0.96	77.7	1849	2.5	0.0452	77.7
ES	13C-1,2,3,7,8-PeCDF	5.49e+07	1.57 y	31:20	0.85	70.4	9689	2.5	0.266	70.4
ES	13C-2,3,4,7,8-PeCDF	5.92e+07	1.55 y	32:28	0.88	73.2	9689	2.5	0.256	73.2
ES	13C-1,2,3,4,7,8-HxCDF	3.84e+07	0.53 y	35:48	1.47	72.0	22045	2.5	0.866	72.0
ES	13C-1,2,3,6,7,8-HxCDF	4.49e+07	0.52 y	35:56	1.78	69.9	22045	2.5	0.719	69.9
ES	13C-2,3,4,6,7,8-HxCDF	4.47e+07	0.54 y	36:35	1.61	76.8	22045	2.5	0.794	76.8
ES	13C-1,2,3,7,8,9-HxCDF	3.66e+07	0.53 y	37:34	1.40	72.3	22045	2.5	0.912	72.3
ES	13C-1,2,3,4,6,7,8-HpCDF	2.93e+07	0.46 y	39:13	1.16	69.9	9389	2.5	0.469	69.9
ES	13C-1,2,3,4,7,8,9-HpCDF	2.32e+07	0.45 y	40:58	0.92	69.6	9389	2.5	0.591	69.6
ES	13C-OCDF	4.87e+07	0.91 y	44:15	1.04	130	6995	2.5	0.391	64.9
CS	37Cl-2,3,7,8-TCDD	1.90e+07		27:18	0.99	29.3			0.0866	73.3
CS	13C-1,2,3,4,7-PeCDD	3.09e+07	1.63 y	32:20	0.77	61.3	9030	2.5	0.360	61.3
CS	13C-1,2,3,4,6-PeCDF	5.57e+07	1.55 y	30:49	0.79	76.7	9689	2.5	0.285	76.7
CS	13C-1,2,3,4,6,9-HxCDF	4.23e+07	0.52 y	36:15	1.41	82.9	22045	2.5	0.904	82.9
CS	13C-1,2,3,4,6,8,9-HpCDF	2.64e+07	0.45 y	39:42	0.91	80.4	9389	2.5	0.598	80.4
NA	n/a	*	* n	NotF*	Div0	*	1765	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	6.56e+07	0.82 y	26:37	-	187	1335	2.5	-	-
JS	13C-1,2,3,4-TCDF	9.15e+07	0.78 y	24:57	-	165	1849	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	1.81e+07	1.29 y	37:05	-	83.1	1256	2.5	-	-

ok  
 Analyst   
 Date 

SS	37Cl-2,3,7,8-TCDD	1.90e+07		27:18	1.00	41.7		0.117	104
SS	13C-1,2,3,4,7-PeCDD	3.09e+07	1.63 y	32:20	0.93	88.7		0.597	88.7
SS	13C-1,2,3,4,6-PeCDF	5.57e+07	1.55 y	30:49	0.94	108	9030	2.5	0.437
SS	13C-1,2,3,4,6,9-HxCDF	4.23e+07	0.52 y	36:15	0.80	118	22045	2.5	0.890
SS	13C-1,2,3,4,6,8,9-HpCDF	2.64e+07	0.45 y	39:42	0.79	114	9389	2.5	0.555
SBS	2,4,6,8-TCDF	2.11e+06	0.78 y	22:28	1.05	2.97	2688	2.5	0.0736
Ay	1,3,6,8-TCDD	4.85e+06	0.81 y	23:27	1.08	9.82	1234	2.5	0.0476
Ay	1,2,3,9-TCDD	6.29e+06	0.81 y	27:09	1.08	12.7	1234	2.5	0.0476
Ay	1,2,8,9-TCDD	4.89e+06	0.79 y	28:20	1.08	9.92	1234	2.5	0.0476
Ay	1,2,4,7,9-PeCDD	4.25e+06	1.67 y	30:18	1.00	11.3	4295	2.5	0.264
Ay	1,2,3,8,9-PeCDD	3.98e+06	1.65 y	33:18	1.00	10.6	4295	2.5	0.264
Ay	1,2,4,6,7,9-HxCDD	3.63e+06	1.20 y	35:05	1.00	10.8	5977	2.5	0.389
Ay	1,2,3,4,6,7,9-HpCDD	3.08e+06	1.06 y	39:32	0.97	11.8	2916	2.5	0.236
Ay	1,3,6,8-TCDF	8.45e+06	0.78 y	21:17	1.05	11.9	2688	2.5	0.0736
Ay	2,3,4,8-TCDF	6.60e+06	0.79 y	26:16	1.05	9.29	2688	2.5	0.0736
Ay	1,2,8,9-TCDF	7.99e+06	0.78 y	28:29	1.05	11.2	2688	2.5	0.0736
Ay	1,3,4,6,8-PeCDF	6.19e+06	1.73 y	28:27	1.05	8.71	2064	2.5	0.0565
Ay	1,2,3,8,9-PeCDF	4.15e+06	1.59 y	33:35	1.00	7.27	6398	2.5	0.258
Ay	1,2,3,4,6,8-HxCDF	4.95e+07	1.25 y	34:25	1.15	104	9172	2.5	0.278
Tot	Total Tetra-Dioxins	2.07e+07	0.81 y	23:27	1.08	41.9	1234	2.5	0.0476
Tot	Total Penta-Dioxins	2.57e+07	1.67 y	30:18	1.00	68.6	4295	2.5	0.264
Tot	Total Hexa-Dioxins	5.17e+07	1.20 y	35:05	1.00	154	5977	2.5	0.389
Tot	Total Hepta-Dioxins	1.52e+07	1.06 y	39:32	0.97	58.4	2916	2.5	0.236
Tot	Total Tetra-Furans	3.25e+07	0.78 y	21:17	1.05	45.7	2688	2.5	0.0736
Tot	Total Penta-Furans	6.01e+07	1.57 y	30:12	1.00	105	6398	2.5	0.258
Tot	Total Hexa-Furans	1.40e+08	1.25 y	34:25	1.15	294	9172	2.5	0.278
Tot	Total Hepta-Furans	3.56e+07	1.06 y	39:13	1.35	101	3188	2.5	0.131
Tot	TCDD EMPC	2.08e+07	0.81 y	23:27	1.08	42.2	1234	2.5	0.0476
Tot	PeCDD EMPC	2.59e+07	1.67 y	30:18	1.00	69.0	4295	2.5	0.264
Tot	HxCDD EMPC	5.18e+07	1.20 y	35:05	1.00	154	5977	2.5	0.389
Tot	HpCDD EMPC	1.52e+07	1.06 y	39:32	0.97	58.4	2916	2.5	0.236
Tot	TCDF EMPC	3.27e+07	0.78 y	21:17	1.05	46.0	2688	2.5	0.0736
Tot	PeCDF EMPC	6.03e+07	1.57 y	30:12	1.00	106	6398	2.5	0.258
Tot	HxCDF EMPC	1.40e+08	1.25 y	34:25	1.15	294	9172	2.5	0.278
Tot	HpCDF EMPC	3.59e+07	1.06 y	39:13	1.35	101	3188	2.5	0.131
AS	13C-1,3,6,8-TCDD	4.59e+07	0.82 y	23:25	1.09	64.4	1335	2.5	0.0377
AS	13C-1,3,6,8-TCDF	7.72e+07	0.77 y	21:15	1.09	77.5	1849	2.5	0.0397
DPE	HxCDFPE *			NotF>>	-	*			-
DPE	HpCDFPE *			NotF>>	-	*			-
DPE	OCDFPE *			NotF>>	-	*			-
DPE	NCDPE *			NotF>>	-	*			-
DPE	DCDFPE *			NotF>>	-	*			-
LMC	Fn1 check mass *			NotF>>	-	*			-
LMC	Fn2 check mass *			NotF>>	-	*			-
LMC	Fn3 check mass *			NotF>>	-	*			-
LMC	Fn4 check mass *			NotF>>	-	*			-
LMC	Fn5 check mass *			NotF>>	-	*			-

PCDD/PCDF RT Window & Isomer Specificity Standards

Analytical Perspectives

[Form: CPSM]

Client ID: 0\_6679\_OPR001 ✓

Filename: 090325P1 S: 2 Vial: 17 ✓

Acq: 25-MAR-09 15:10:08 ✓

Lab ID: OPR1\_6679\_DF ✓

GC Column ID: db-5 ICal: MM1\_DF\_07012007A\_25» Wt/Vol: 1.000

Sample text: OPR1\_6679\_DF 0\_6679\_OPR001 ✓

Window Defining Standards Results

First Eluting Isomer	RT	Last Eluting Isomer	RT
1,3,6,8-TCDD	23:27	1,2,8,9-TCDD	28:20
1,2,4,7,9-PeCDD	30:18	1,2,3,8,9-PeCDD	33:18
1,2,4,6,7,9-HxCDD	35:05	1,2,3,7,8,9-HxCDD	37:13
1,2,3,4,6,7,9-HpCDD	39:32	1,2,3,4,6,7,8-HpCDD	40:24
1,3,6,8-TCDF	21:17	1,2,8,9-TCDF	28:29
1,3,4,6,8-PeCDF	28:27	1,2,3,8,9-PeCDF	33:35
1,2,3,4,6,8-HxCDF	34:25	1,2,3,7,8,9-HxCDF	37:35
1,2,3,4,6,7,8-HpCDF	39:11	1,2,3,4,7,8,9-HpCDF	40:55

Isomer Specificity Test Standard Results

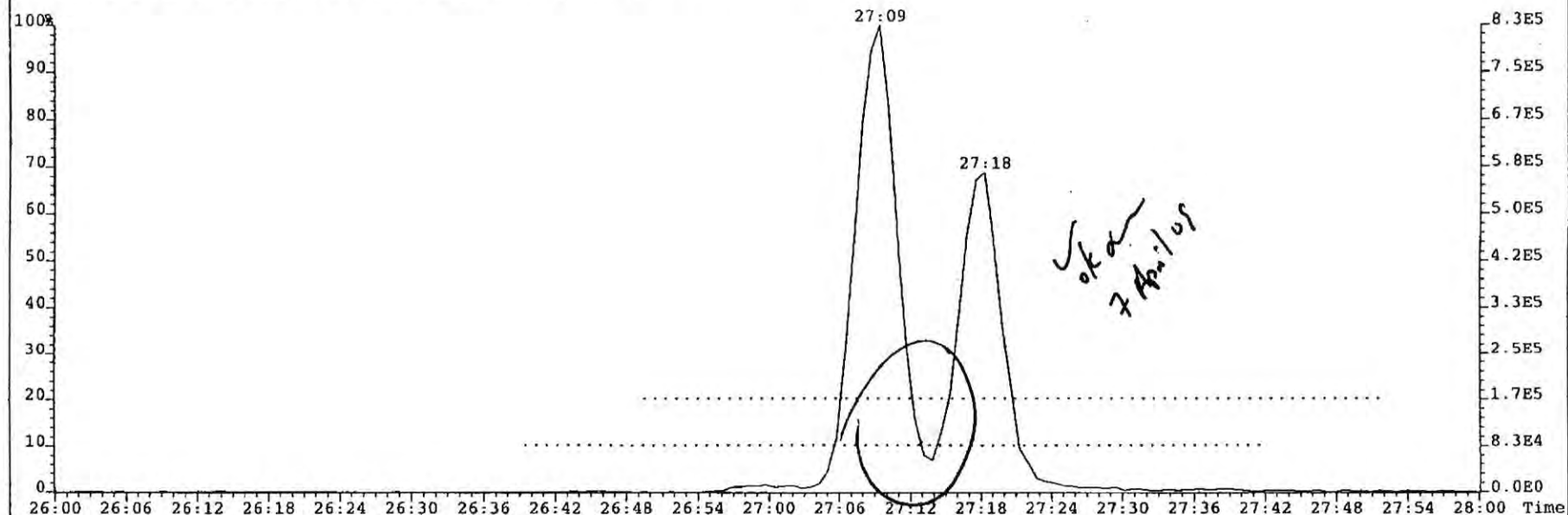
2,3,7,8 Isomer	RT	Closest Isomer	RT	% Valley
2,3,7,8-TCDD	27:18	1,2,3,9-TCDD	27:09	<= 10%
2,3,7,8-TCDF	26:23	2,3,4,8-TCDF	26:16	<= 40%

Analyst: 

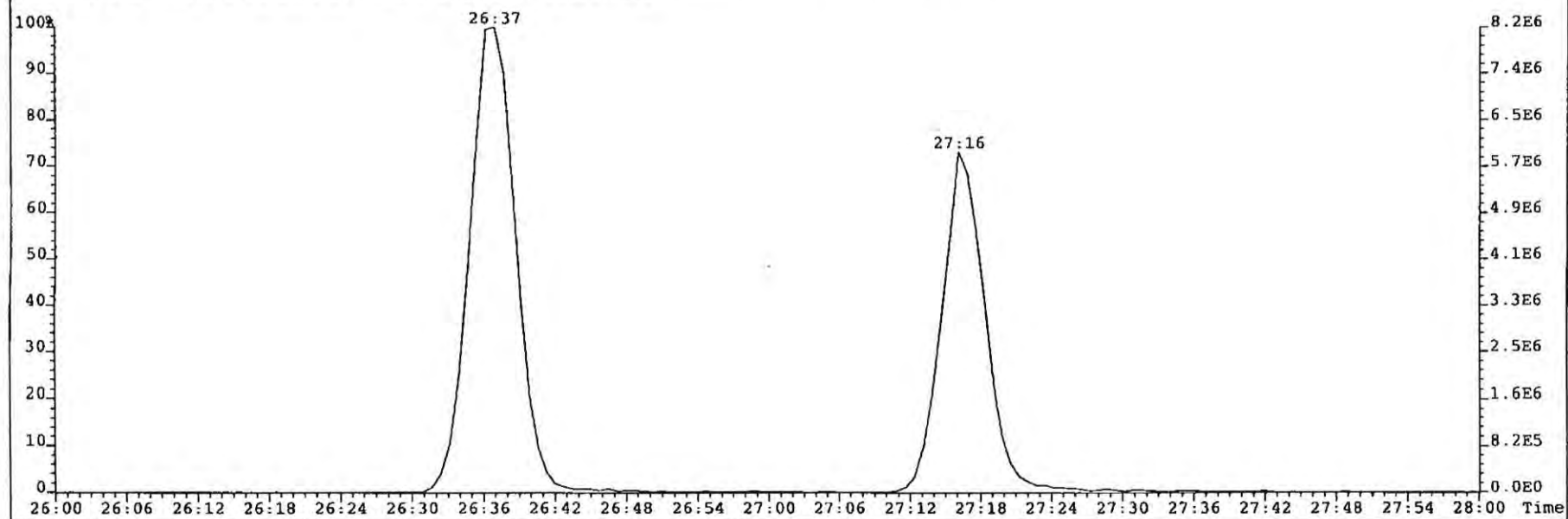
Date: 



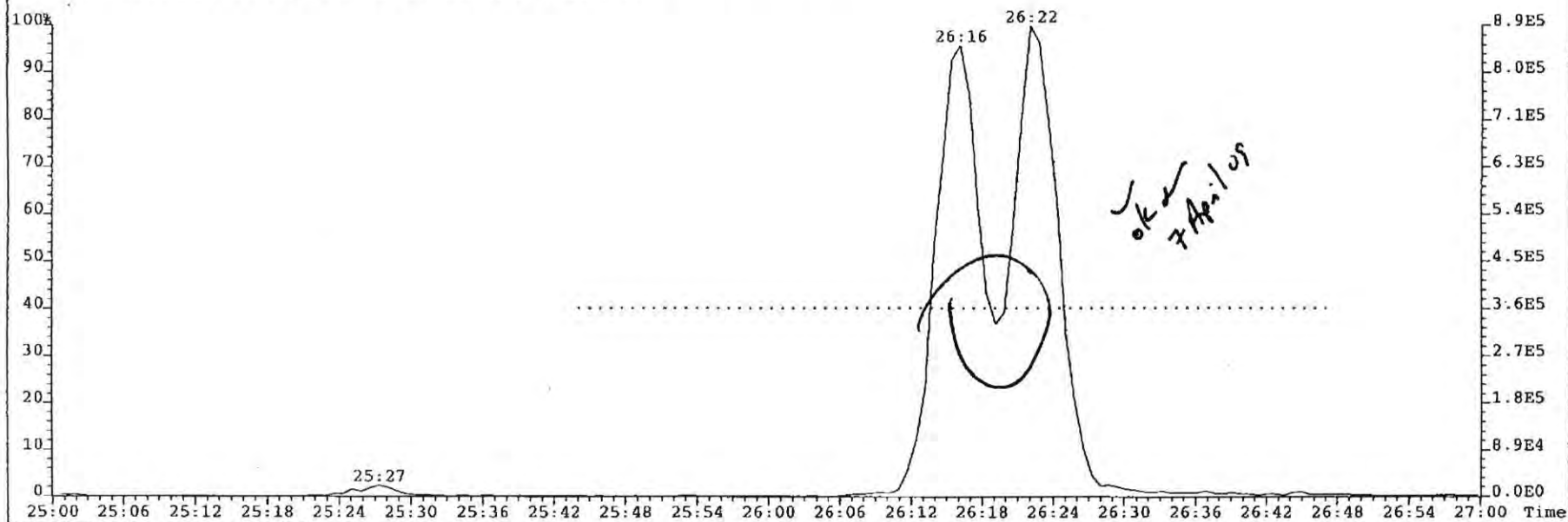
File: 090325P1 Acq: 25-MAR-2009 15:10:08 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: OPR1\_6679\_DF 0\_6679\_OPR001 Vial# 17 File Text: AP DB5  
321.8936 S:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 78



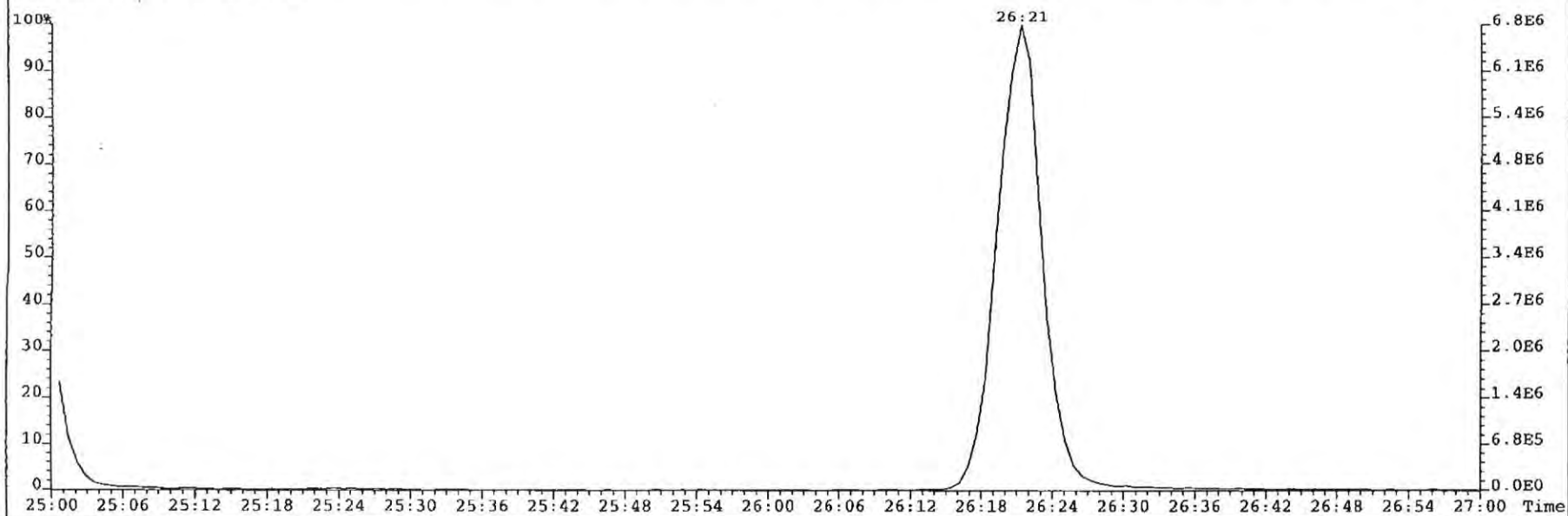
333.9339 S:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 102



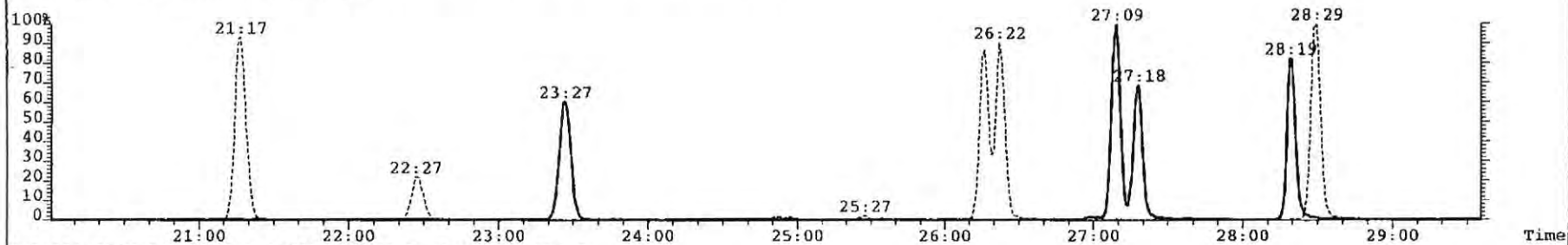
File: 090325P1 Acq: 25-MAR-2009 15:10:08 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: OPR1\_6679\_DF 0\_6679\_OPR001 Vial# 17 File Text: AP DB5  
305.8987 S:2 BSub(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 99



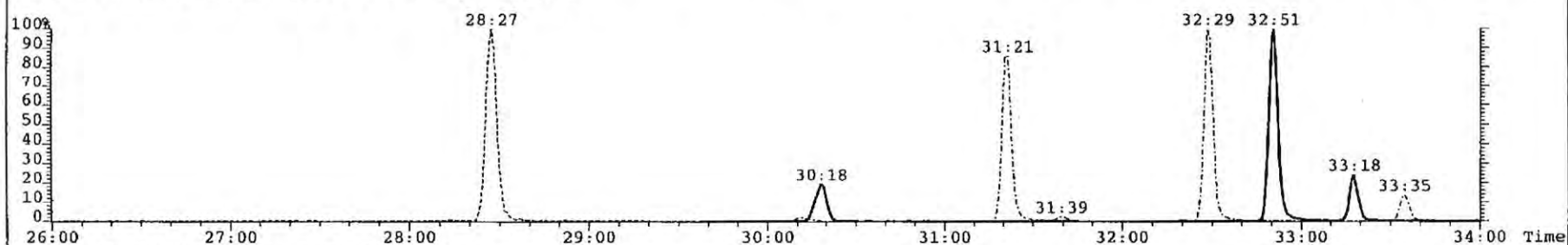
315.9419 S:2 Expt: DF\_CL4-8



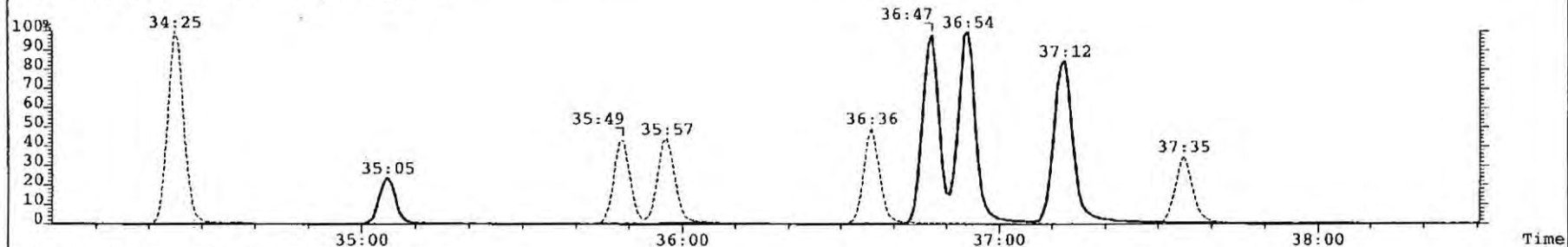
File: 090325P1 Acq: 25-MAR-2009 15:10:08 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: OPR1\_6679\_DF 0\_6679\_OPR001 Vial# 17 File Text: AP DB5  
S:2 305.8987,321.8936 Expt: DF\_CL4-8



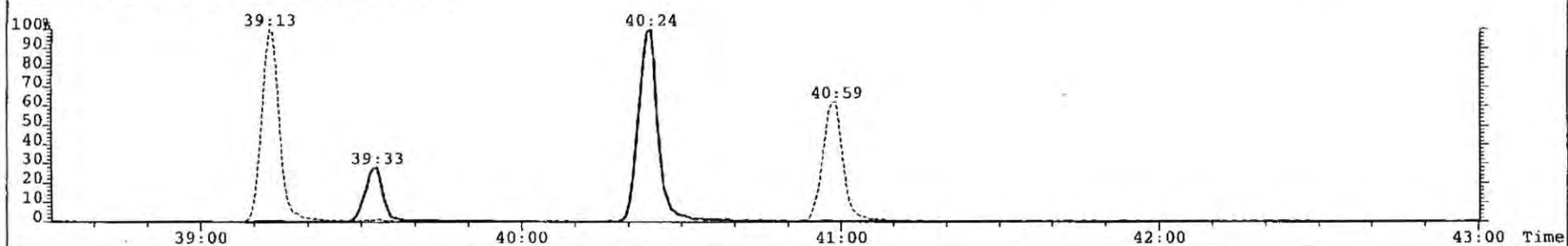
S:2 339.8597,355.8546 F:2,339.8597 F:2 Expt: DF\_CL4-8



S:2 F:3 373.8207,389.8156 Expt: DF\_CL4-8

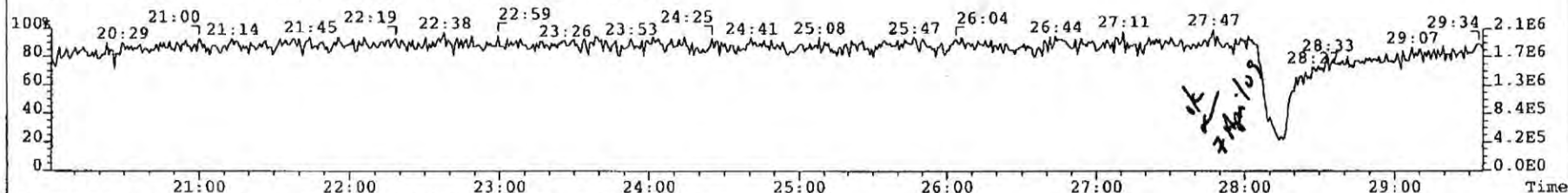


S:2 F:4 407.7818,423.7767 Expt: DF\_CL4-8

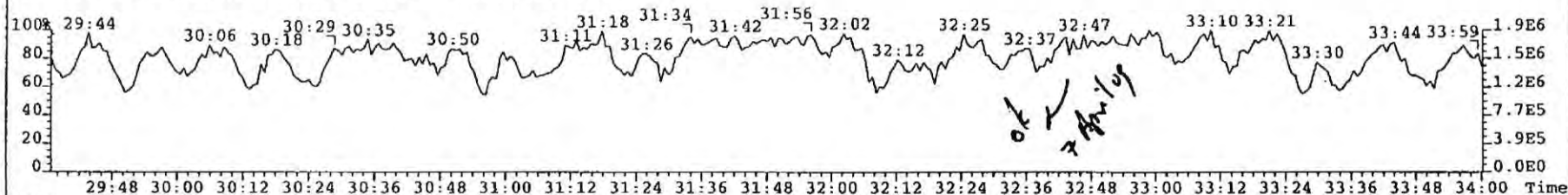




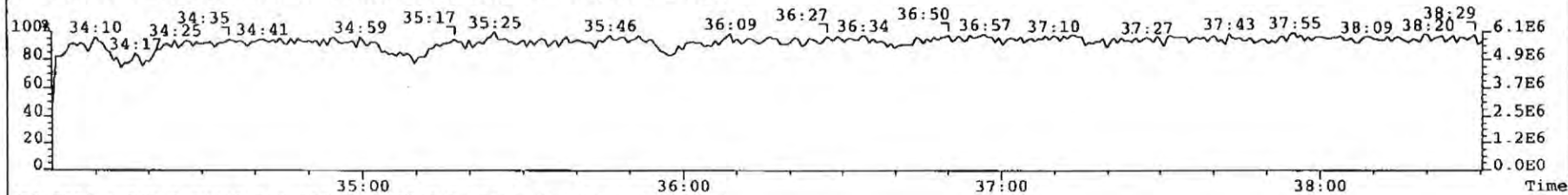
File: 090325P1 Acq: 25-MAR-2009 15:10:08 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: OPR1\_6679\_DF 0.6679\_OPR001 Vial# 17 File Text: AP DB5  
316.9824 S:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



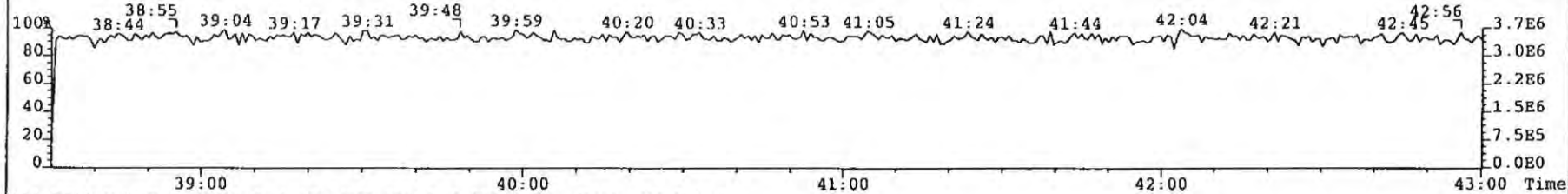
366.9792 S:2 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



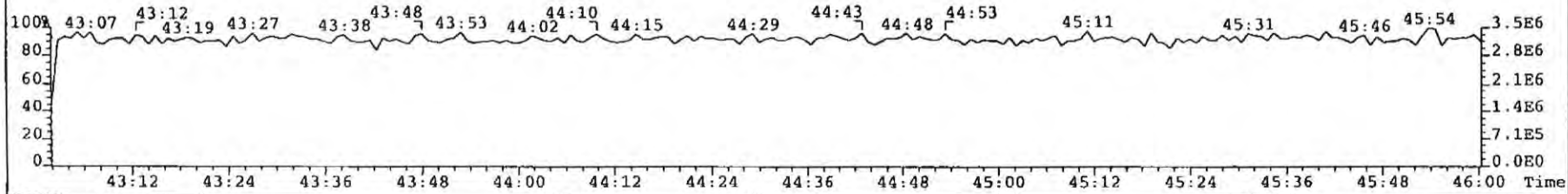
380.9760 S:2 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



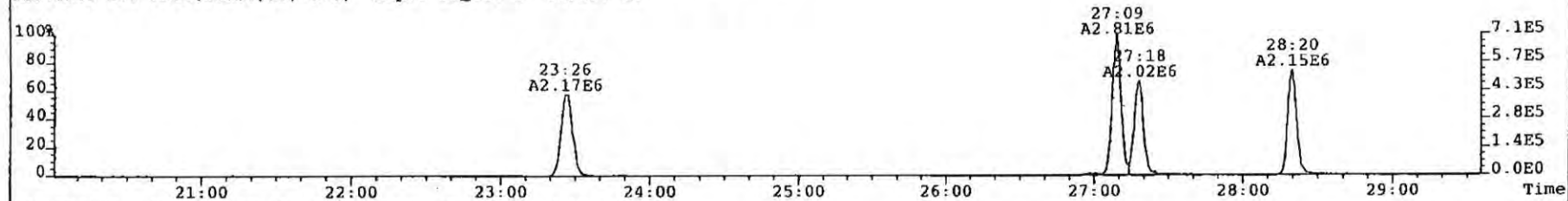
430.9728 S:2 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



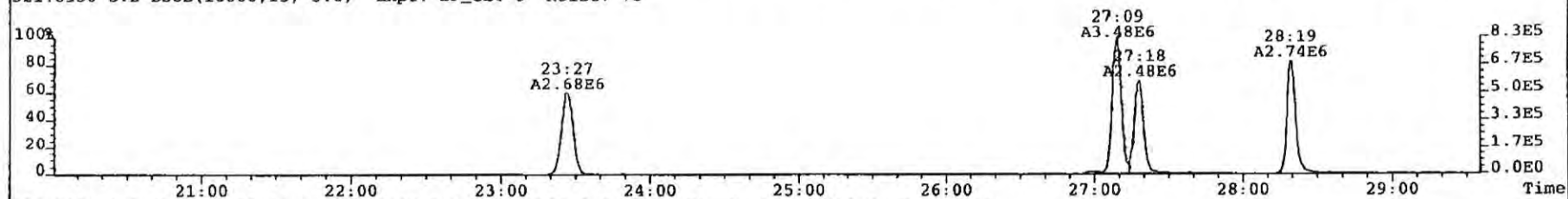
454.9728 S:2 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



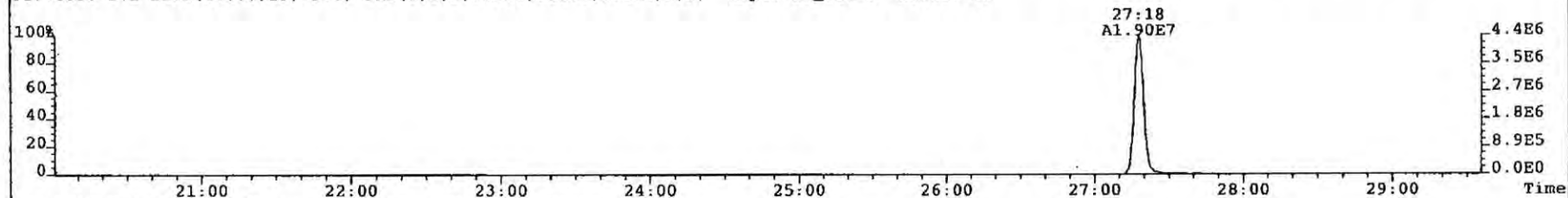
File: 090325P1 Acq: 25-MAR-2009 15:10:08 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: OPR1\_6679\_DF 0\_6679\_OPR001 Vial# 17 File Text: AP DB5  
319.8965 S:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 85



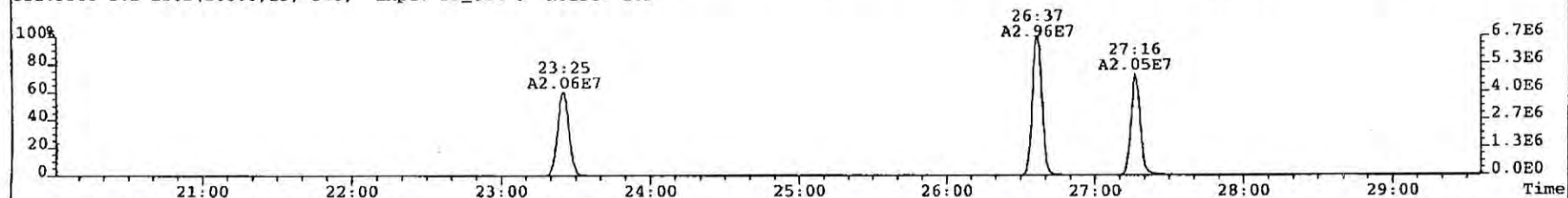
321.8936 S:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 78



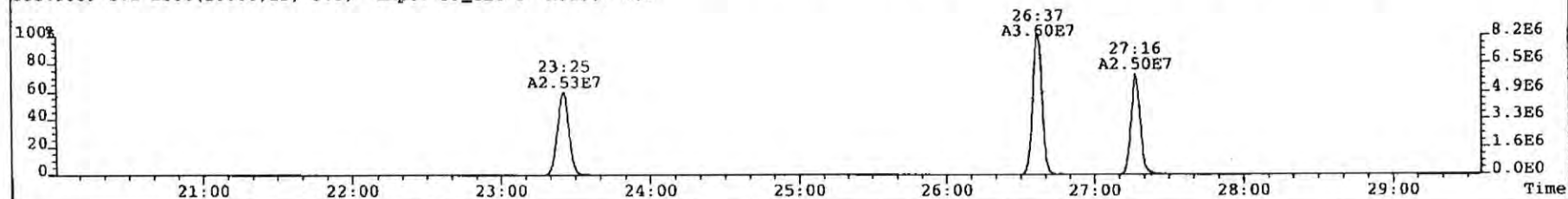
327.8850 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 89



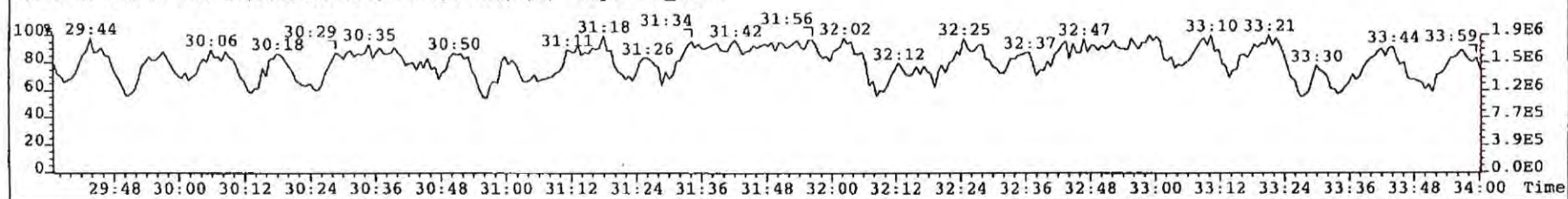
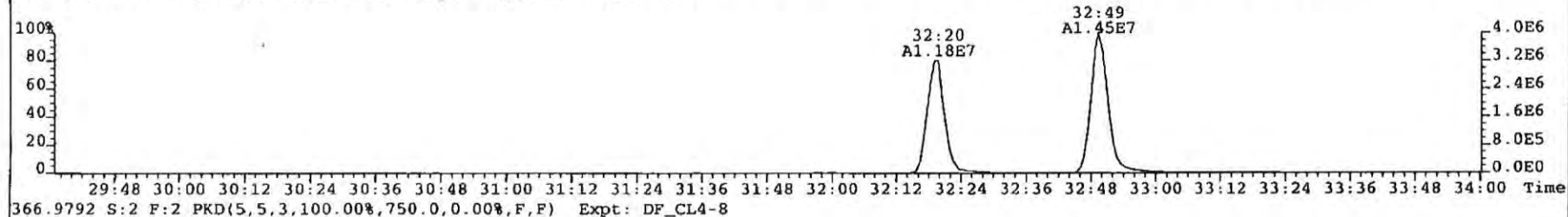
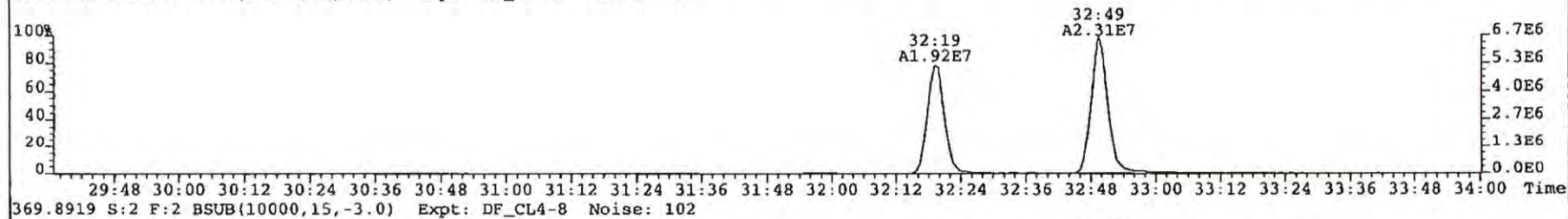
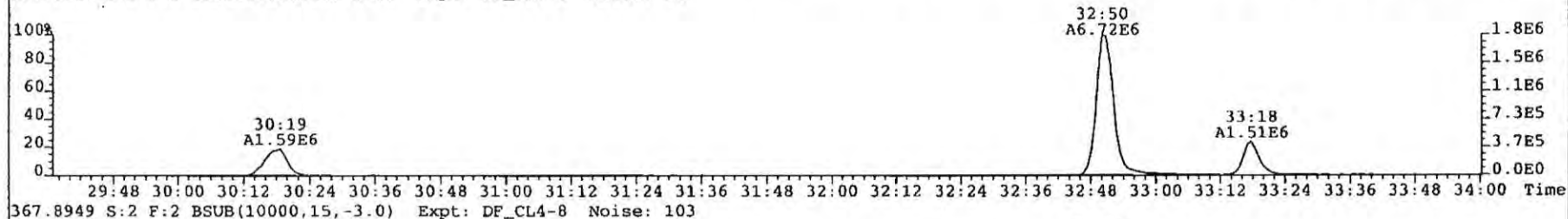
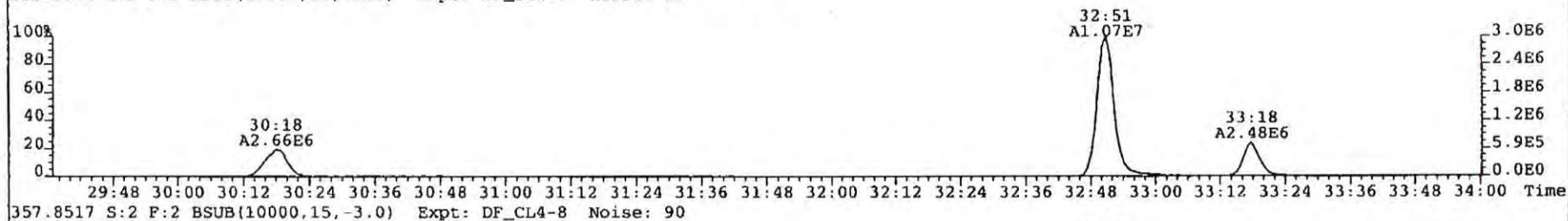
331.9368 S:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 109



333.9339 S:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 102

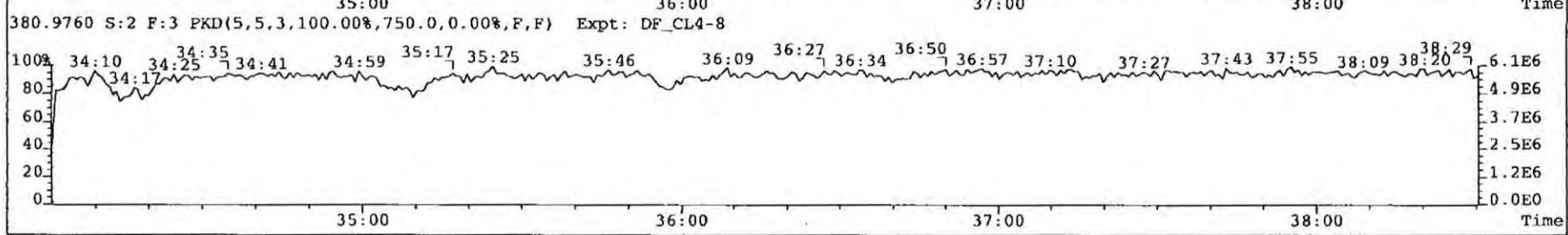
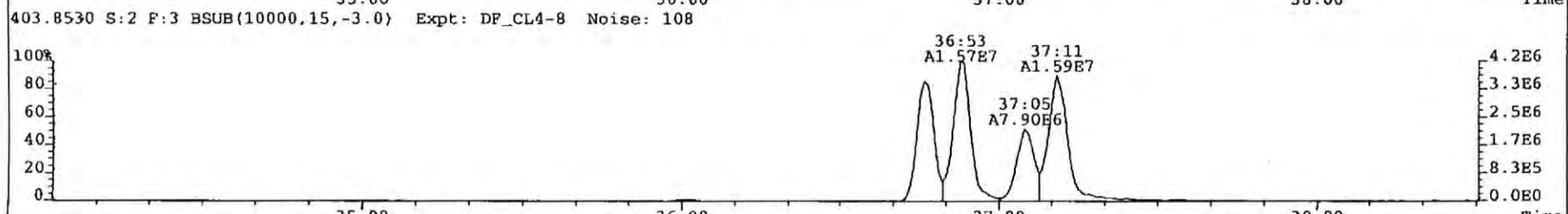
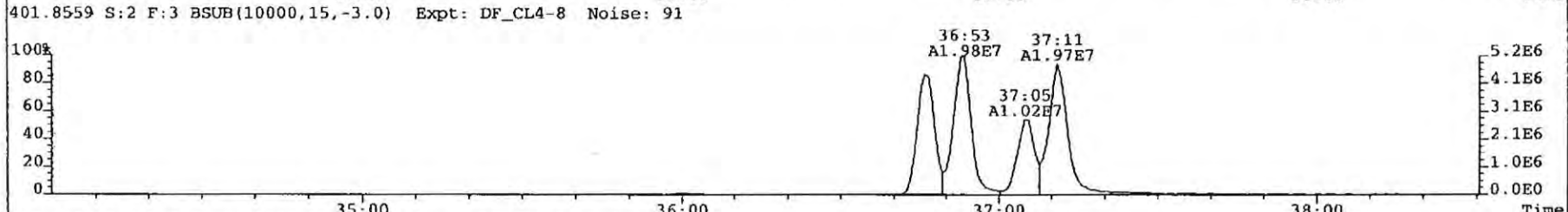
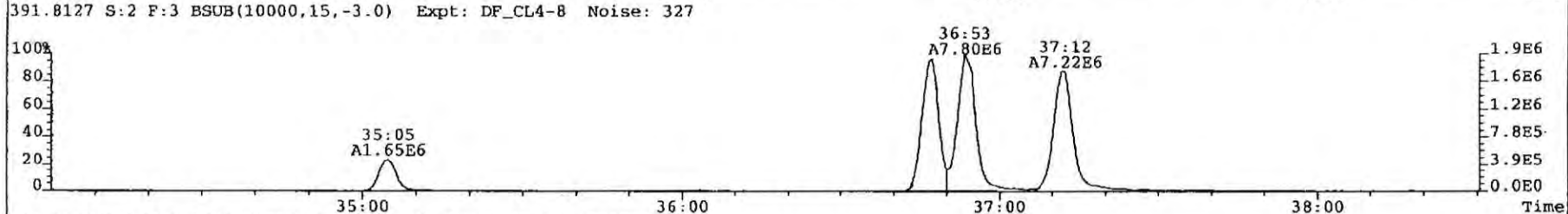
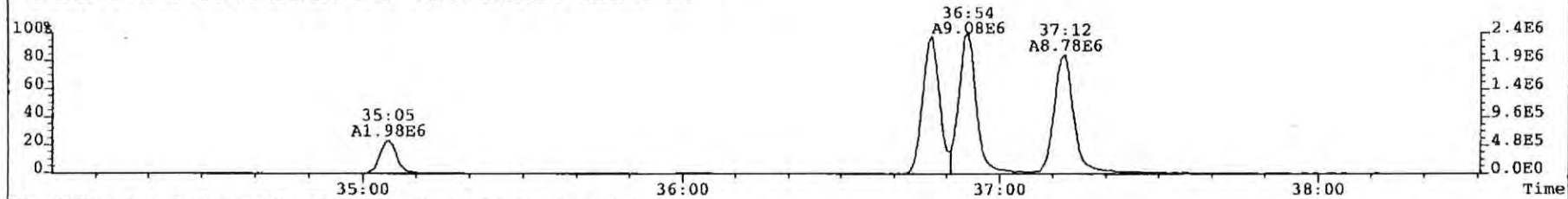


File: 090325P1 Acq: 25-MAR-2009 15:10:08 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: OPR1\_6679\_DF\_0\_6679\_OPR001 Vial# 17 File Text: AP DB5  
355.8546 S:2 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 53

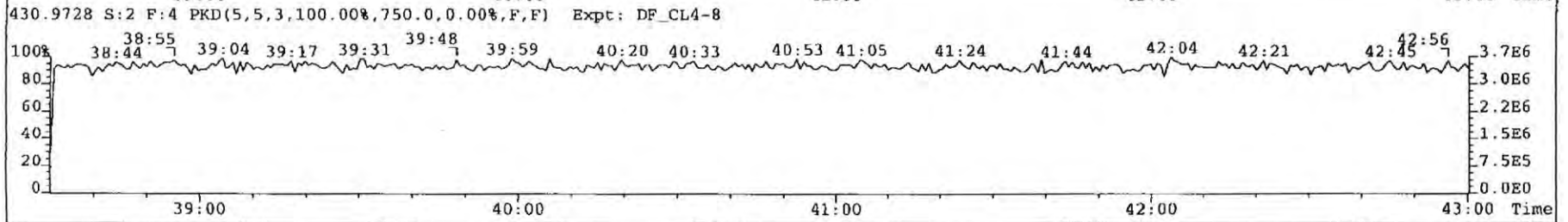
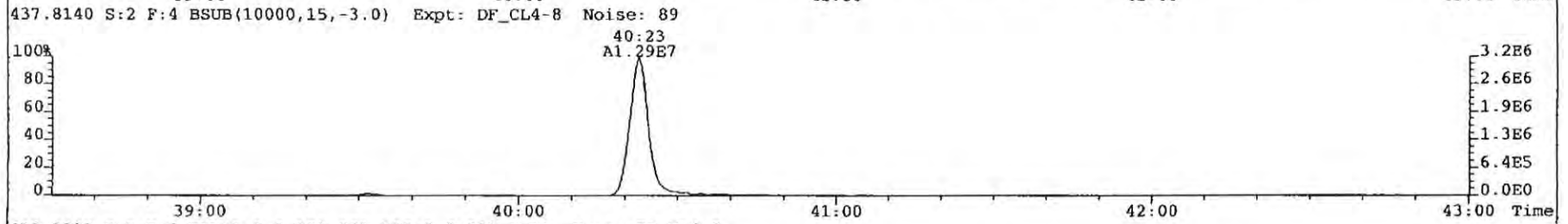
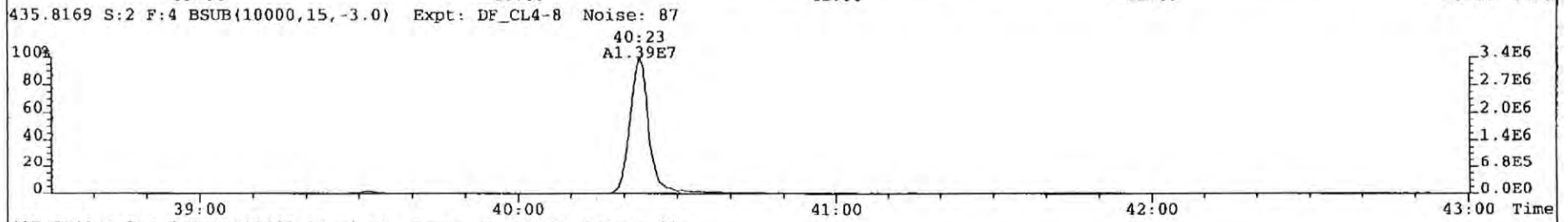
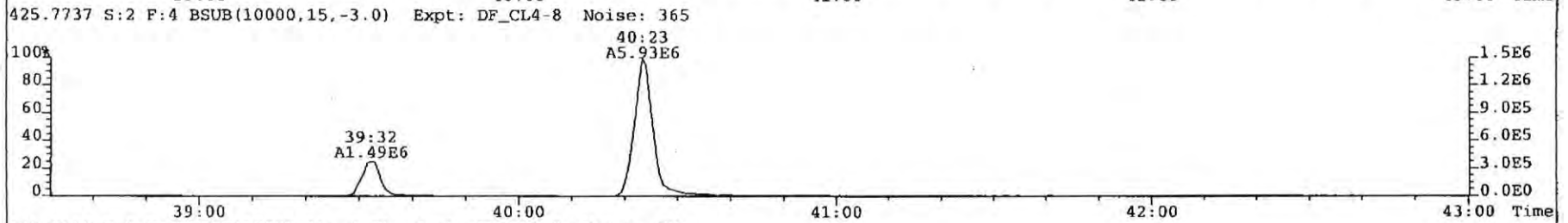
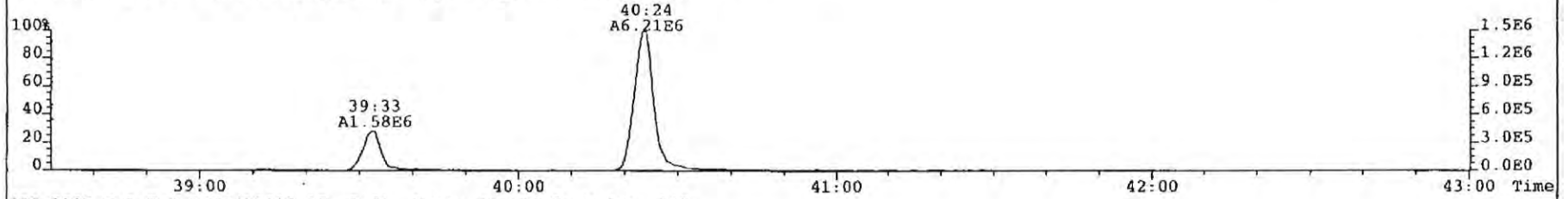




File: 090325F1 Acq: 25-MAR-2009 15:10:08 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: OPR1\_6679\_DF 0\_6679\_OPR001 Vial# 17 File Text: AP DB5  
389.8156 S:2 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 490



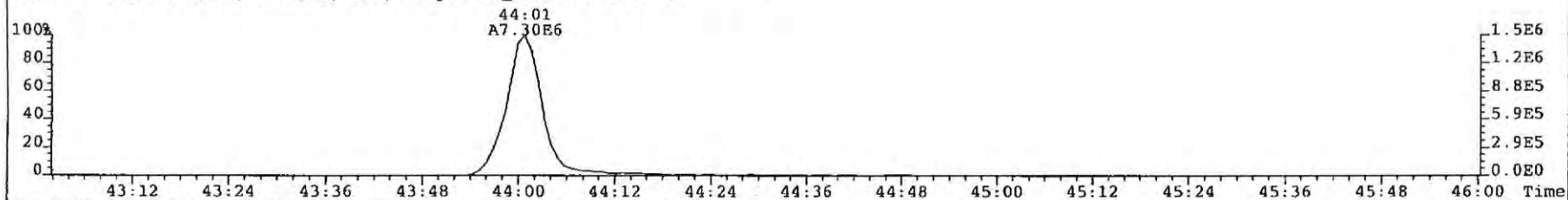
File: 090325P1 Acq: 25-MAR-2009 15:10:08 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: OPR1\_6679\_DF 0\_6679\_OPR001 Vial# 17 File Text: AP DB5  
423.7767 S:2 F:4 BSub(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 464



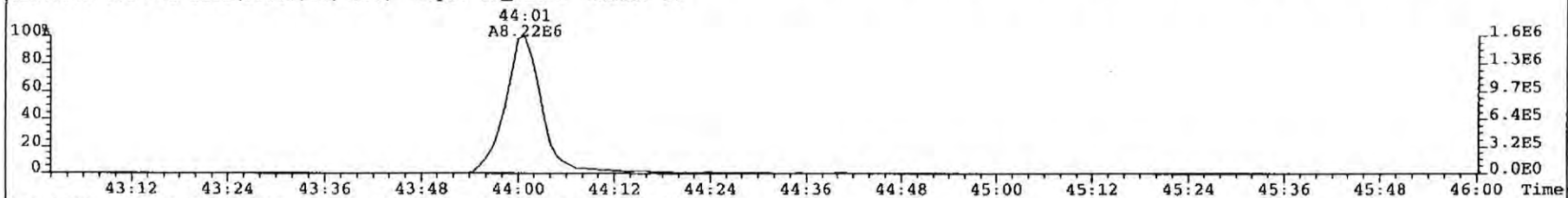
File: 090325P1 Acq: 25-MAR-2009 15:10:08 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 2 Text: OPR1\_6679\_DF 0\_6679\_OPR001 Vial# 17 File Text: AP DB5

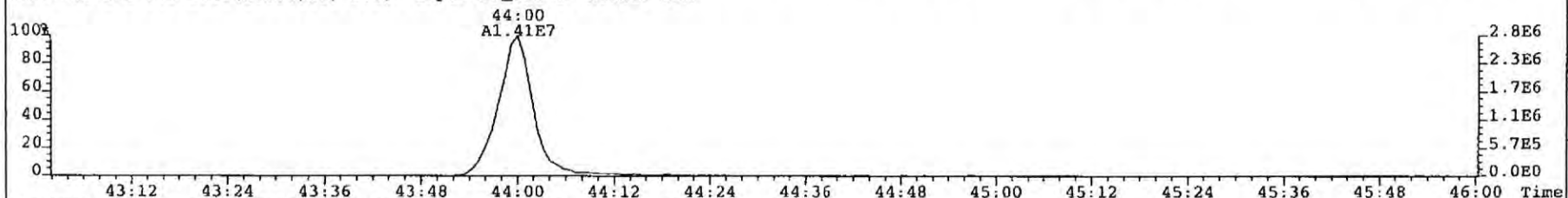
457.7377 S:2 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 87



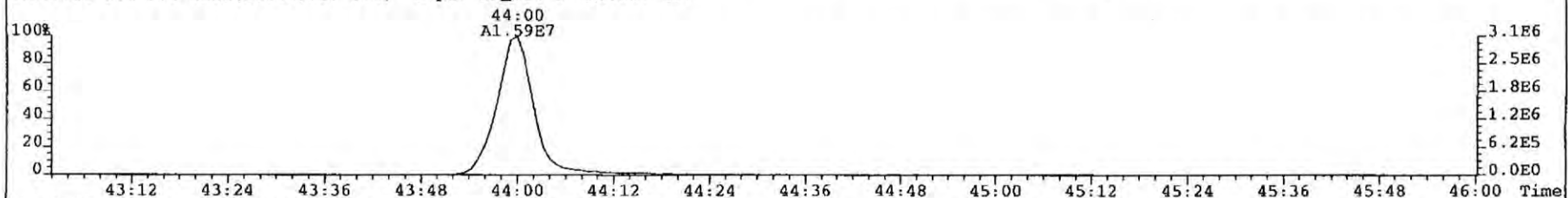
459.7348 S:2 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 97



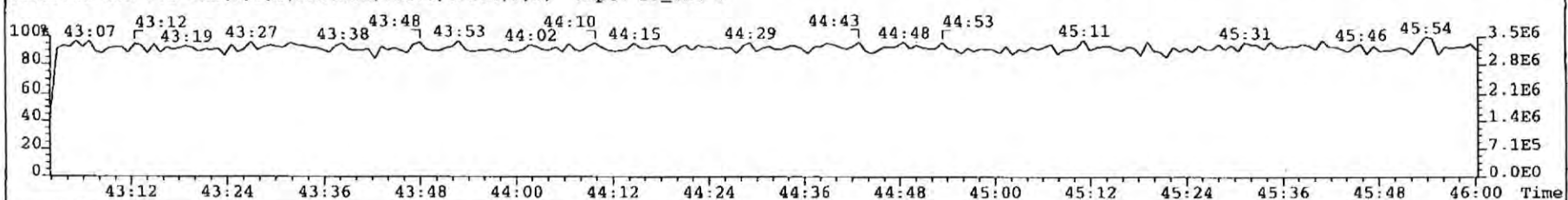
469.7780 S:2 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 201



471.7750 S:2 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 427

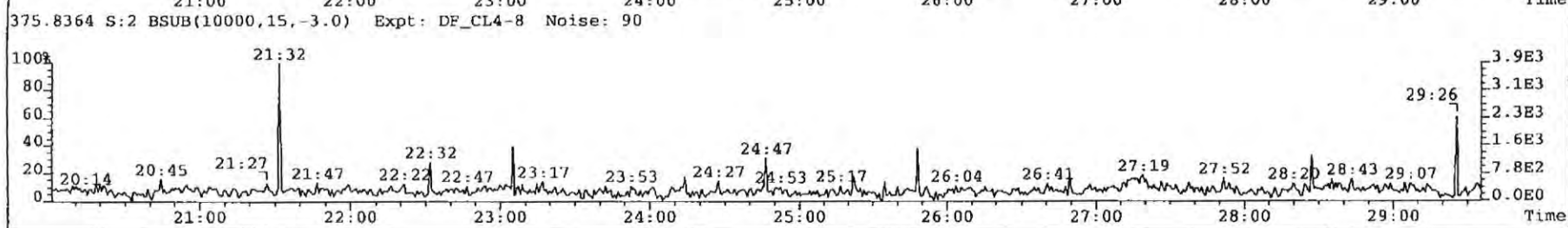
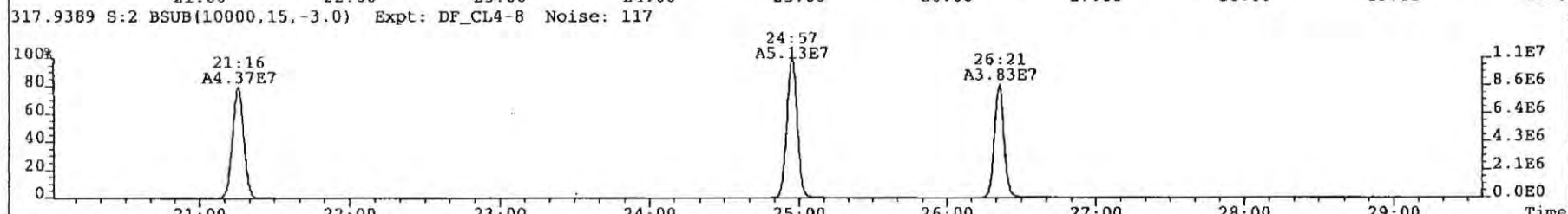
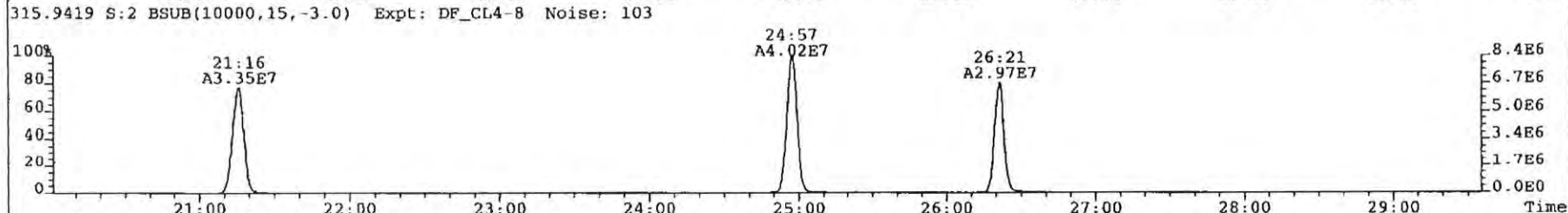
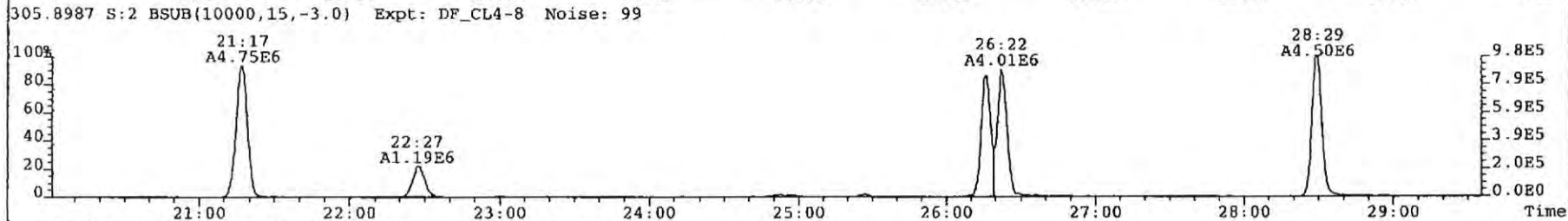
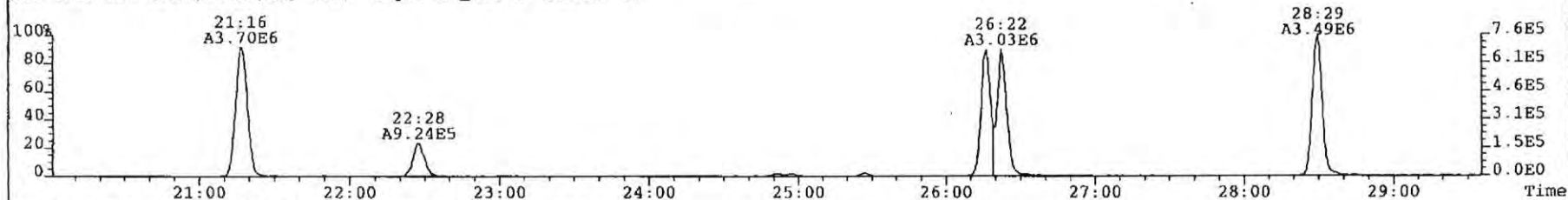


454.9728 S:2 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

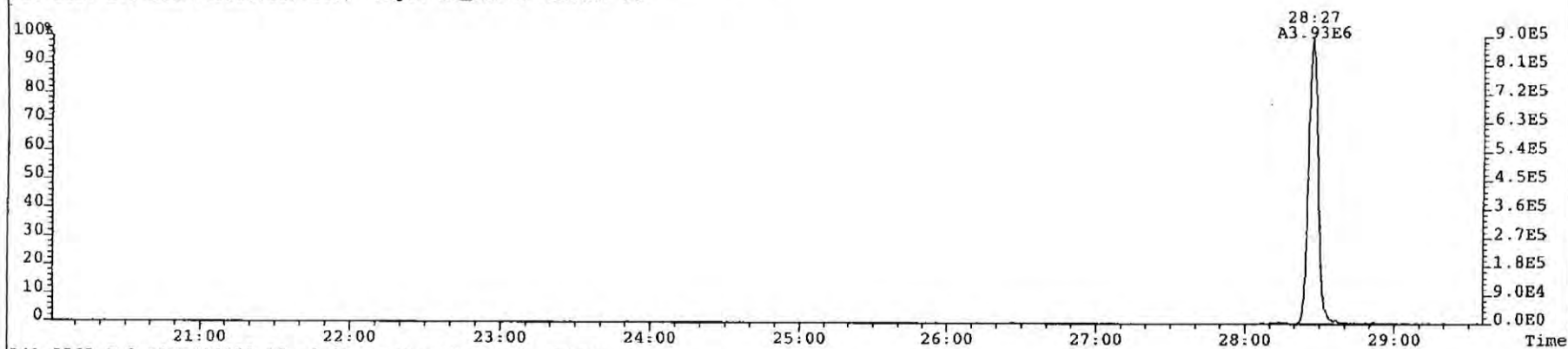




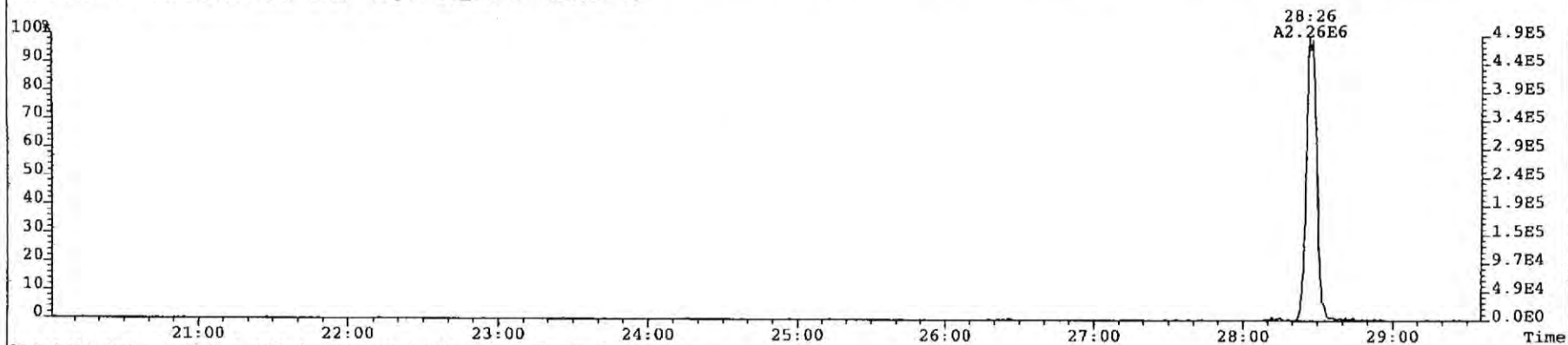
File: 090325P1 Acq: 25-MAR-2009 15:10:08 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: OPR1\_6679\_DF 0\_6679\_OPR001 Vial# 17 File Text: AP DB5  
303.9016 S:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 77



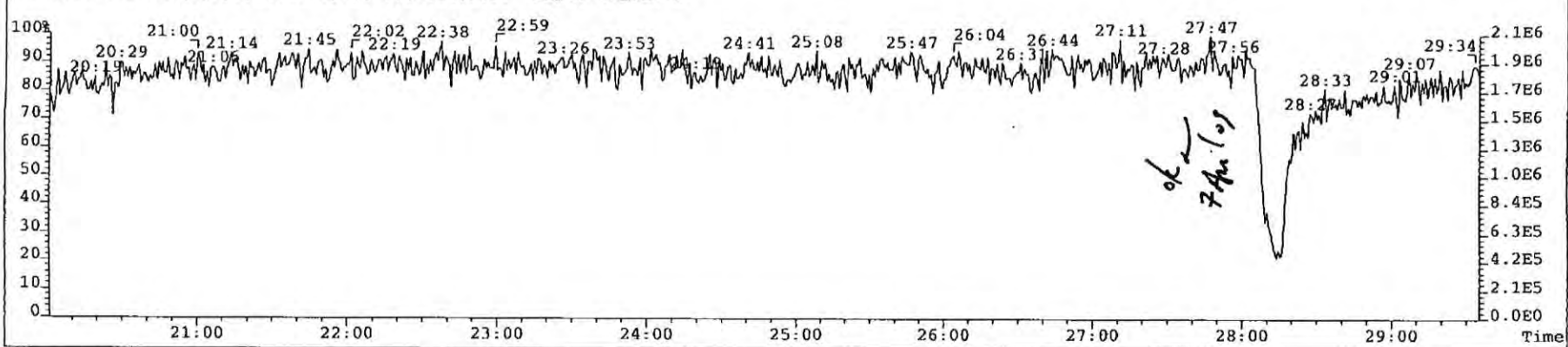
File: 090325P1 Acq: 25-MAR-2009 15:10:08 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: OPR1\_6679\_DF 0\_6679\_OPR001 Vial# 17 File Text: AP DB5  
339.8597 S:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 95



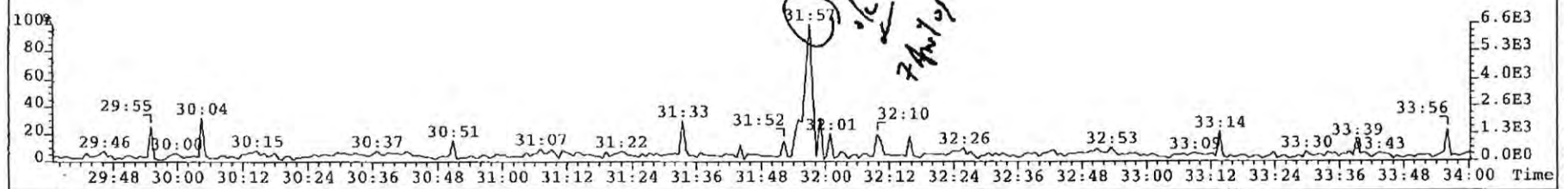
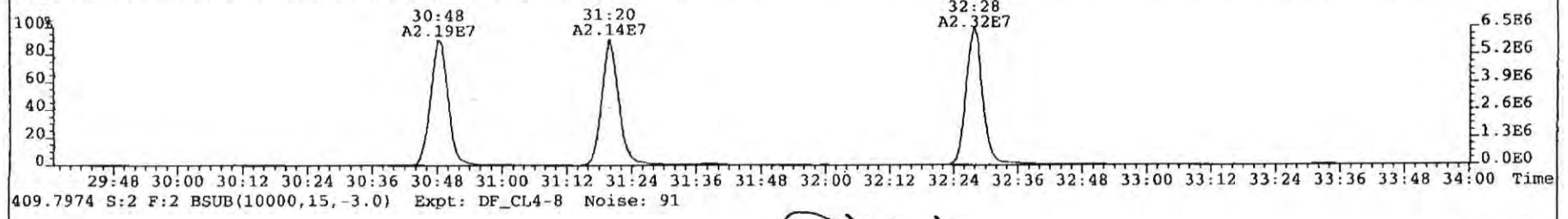
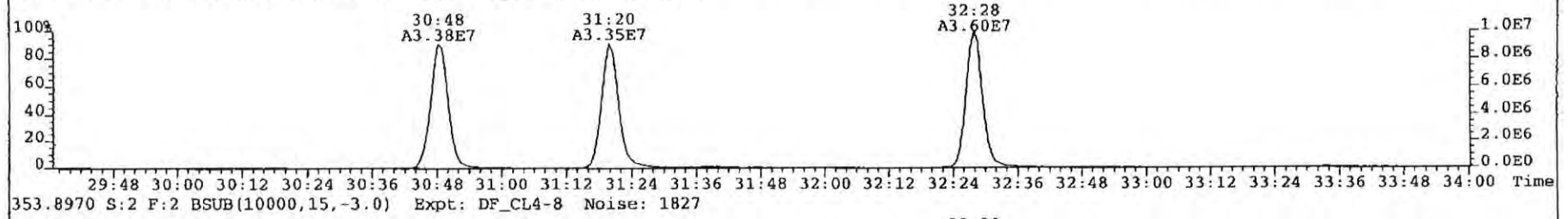
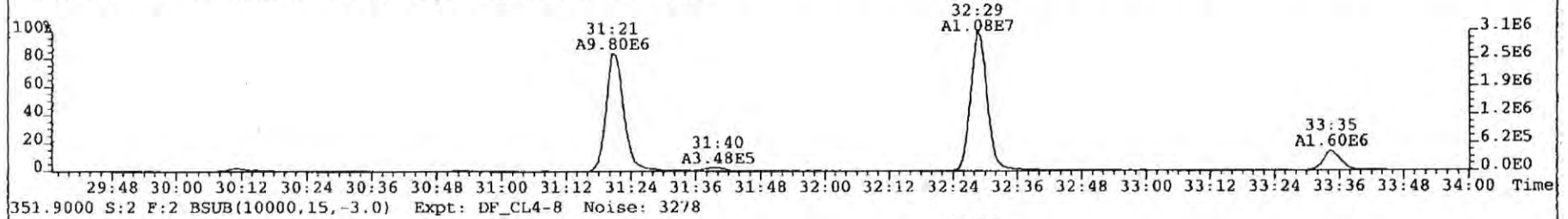
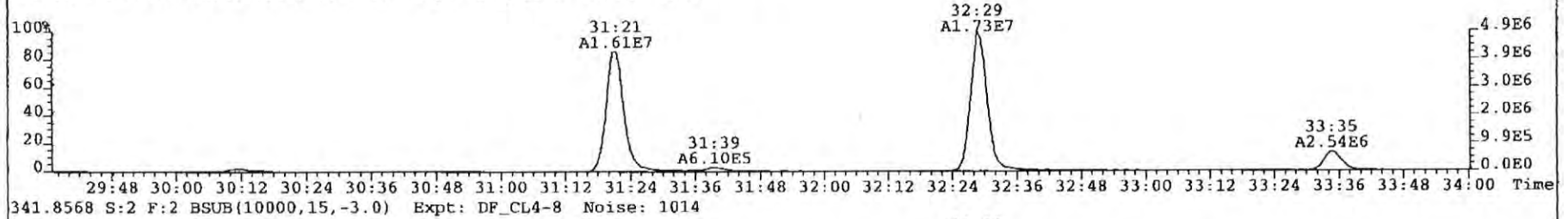
341.8568 S:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 93



316.9824 S:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

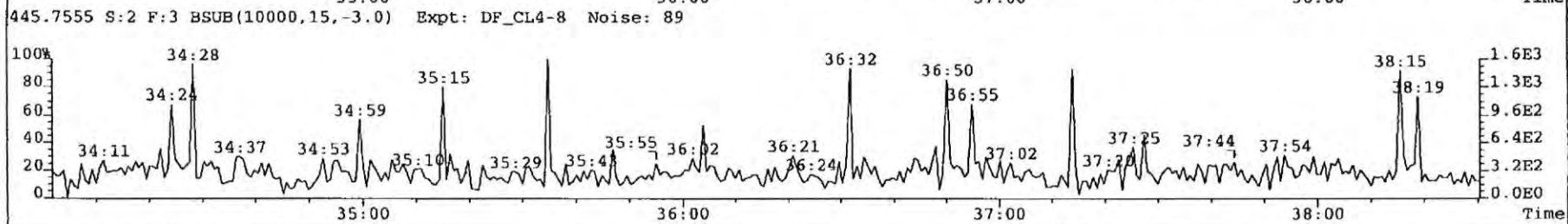
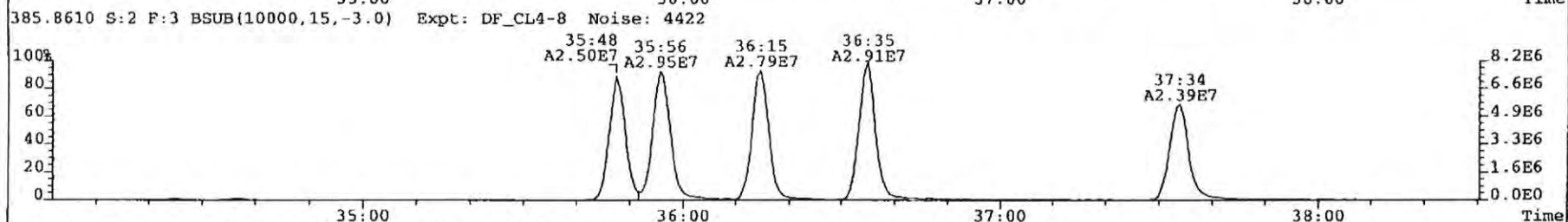
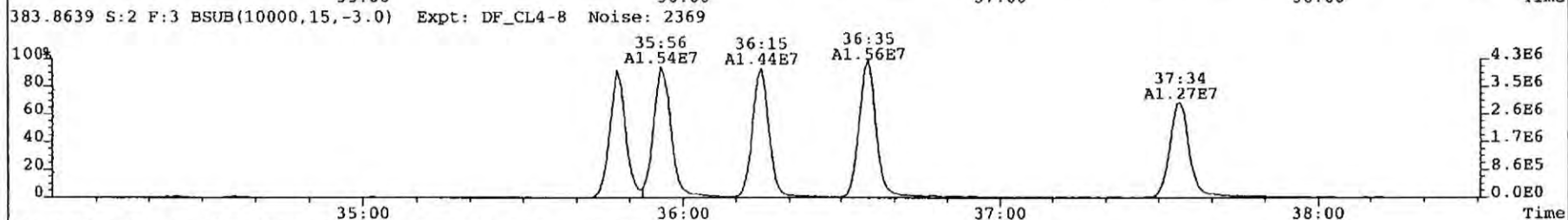
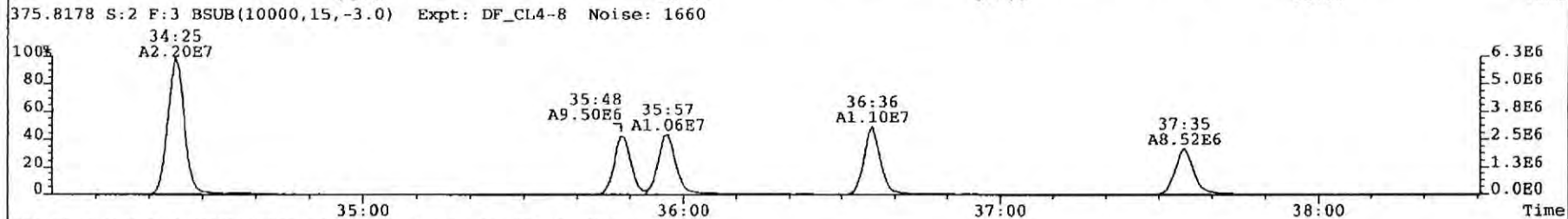
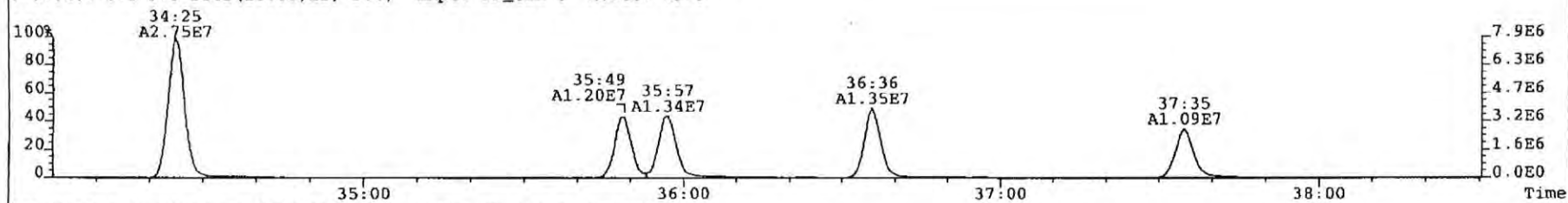


File: 090325P1 Acq: 25-MAR-2009 15:10:08 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: OPR1\_6679\_DF 0\_6679\_OPR001 Vial# 17 File Text: AP DB5  
339.8597 S:2 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1111

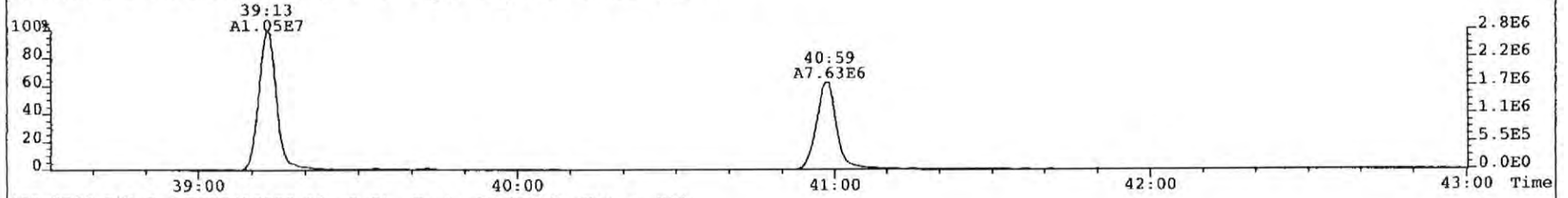




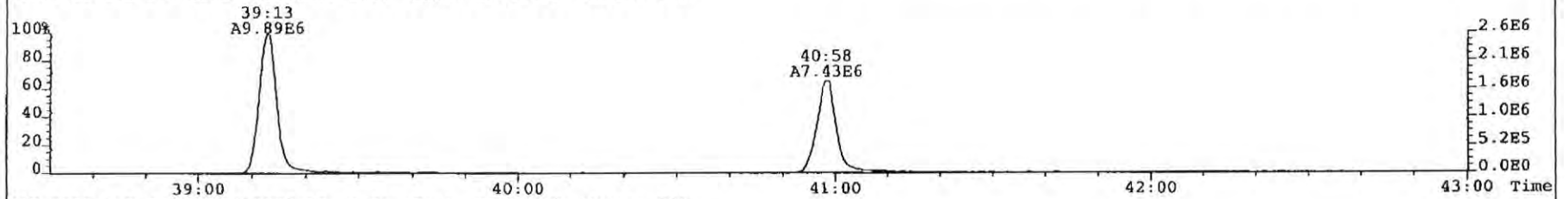
File: 090325P1 Acq: 25-MAR-2009 15:10:08 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: OPR1\_6679\_DF 0\_6679\_OPR001 Vial# 17 File Text: AP DB5  
373.8207 S:2 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1949



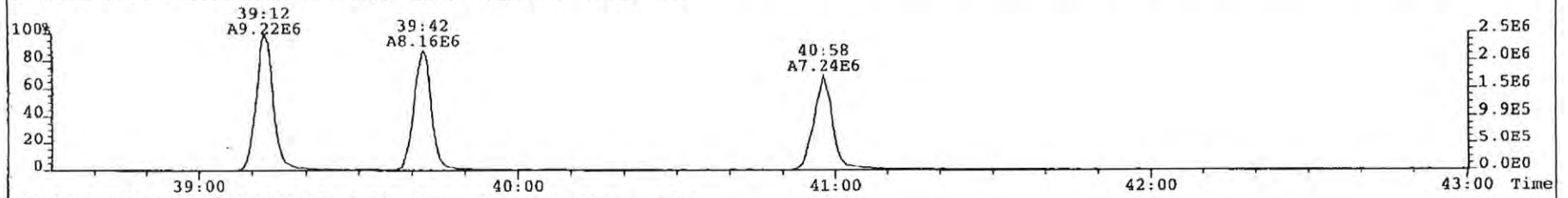
File: 090325P1 Acq: 25-MAR-2009 15:10:08 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: OPR1\_6679\_DF 0\_6679\_OPR001 Vial# 17 File Text: AP DB5  
407.7818 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 744



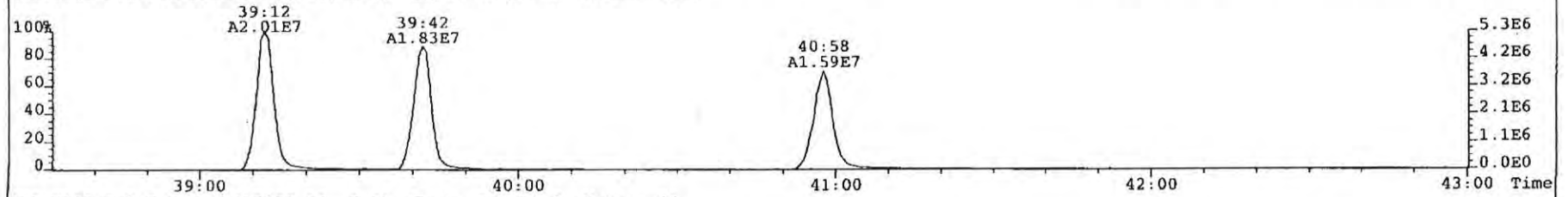
409.7788 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 730



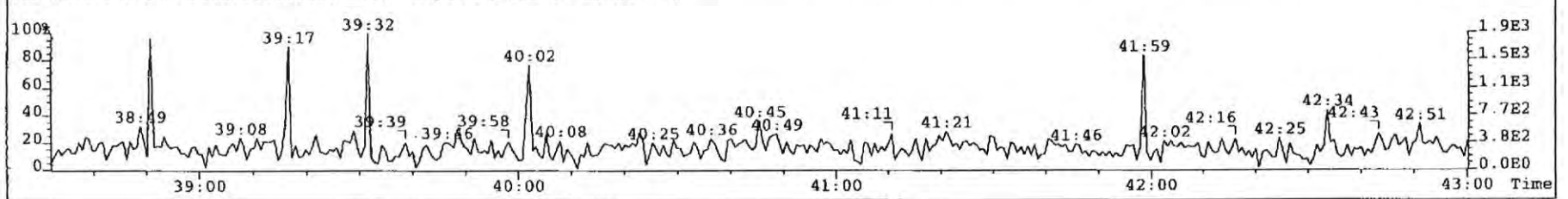
417.8253 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 996



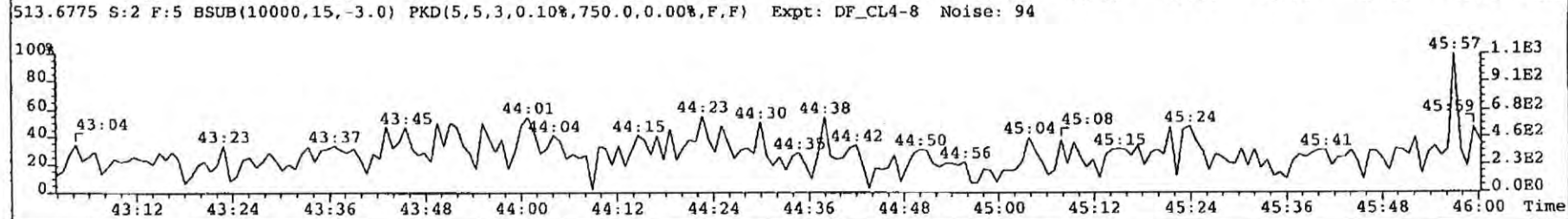
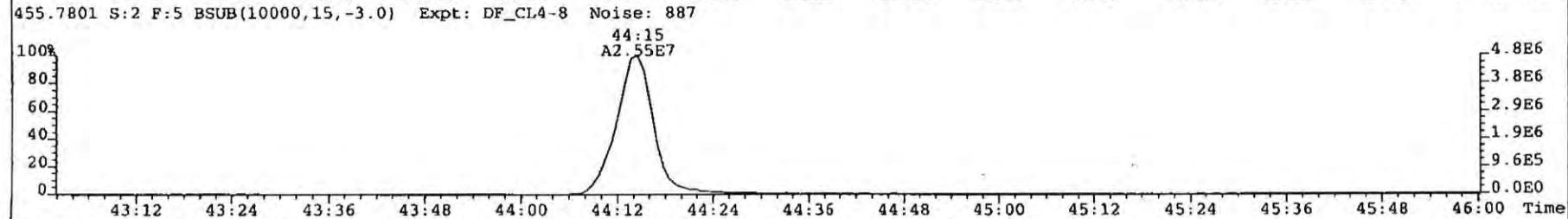
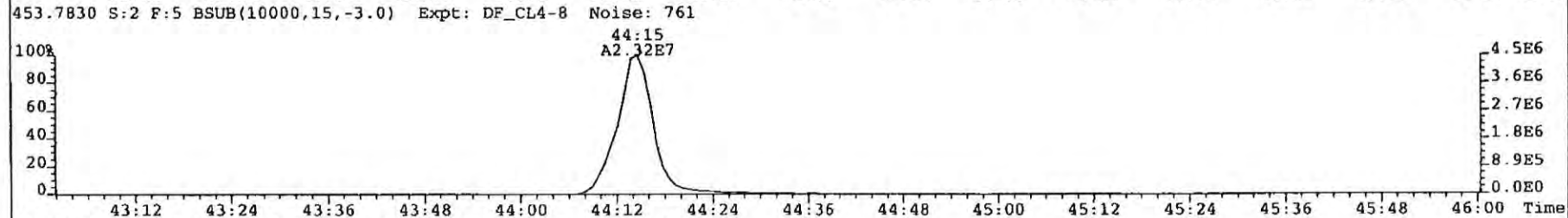
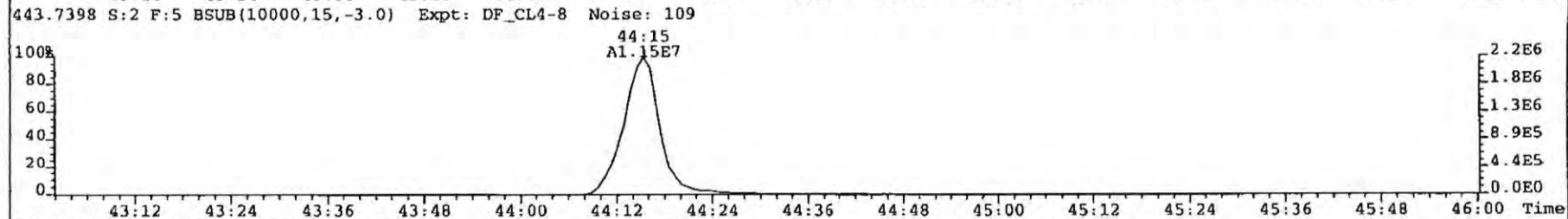
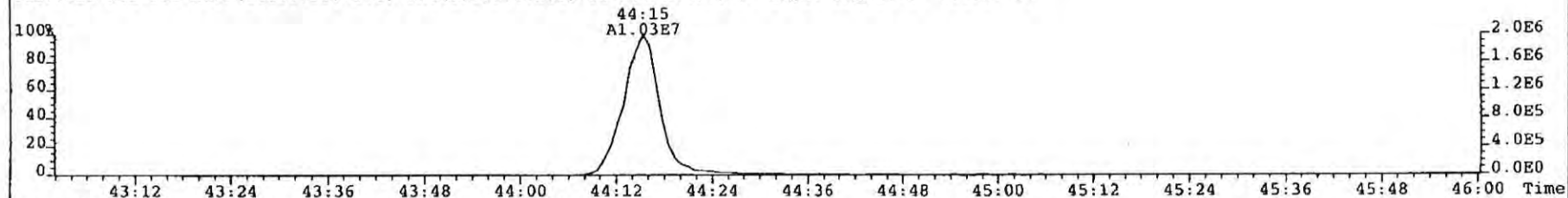
419.8220 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1895



479.7165 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 96

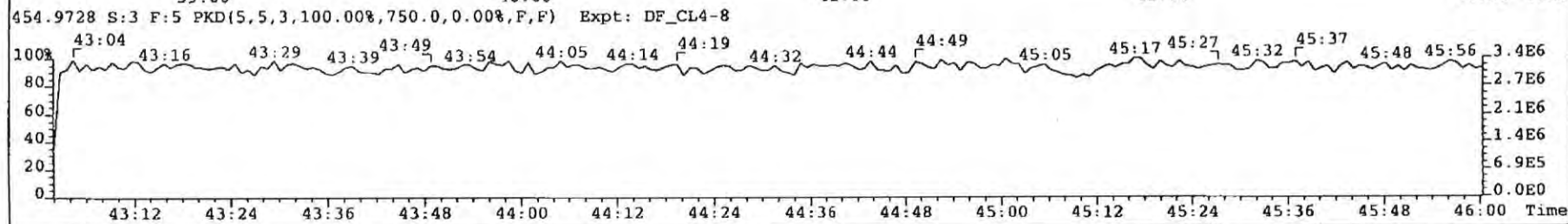
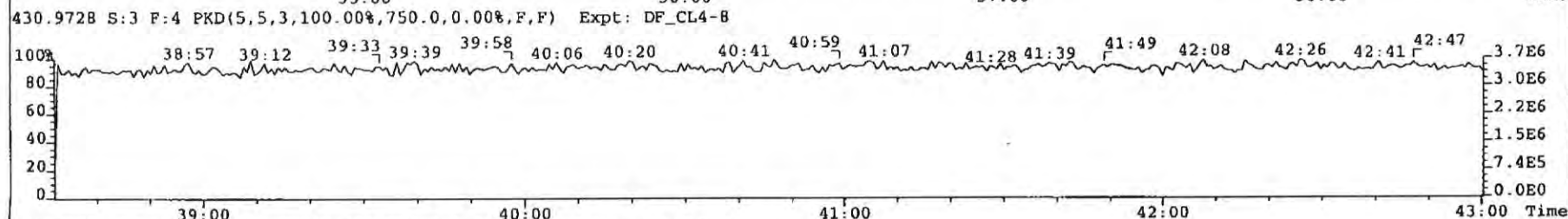
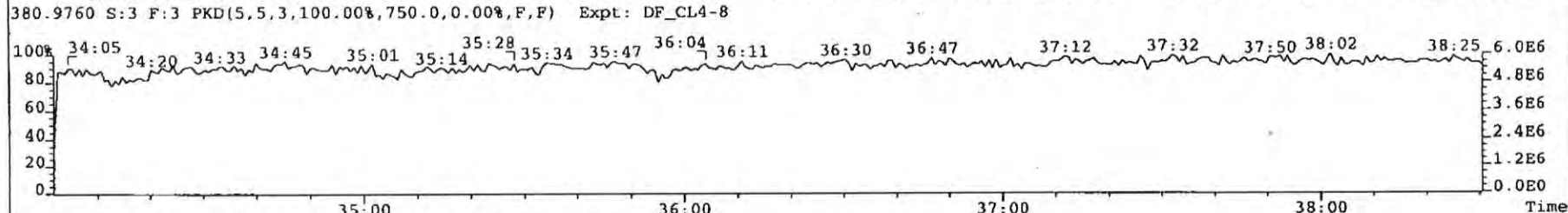
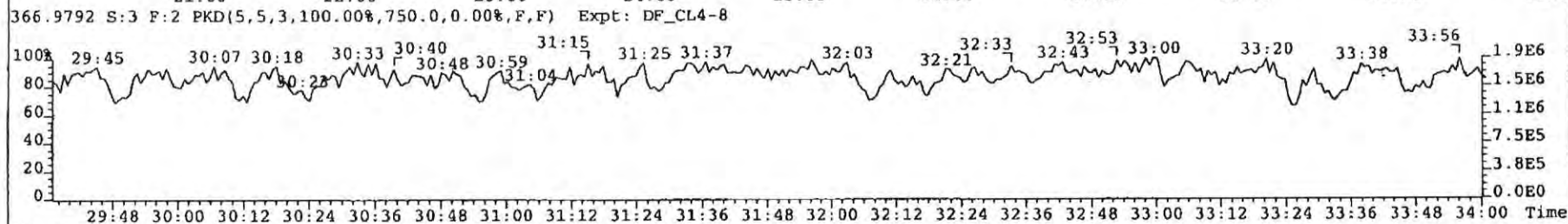
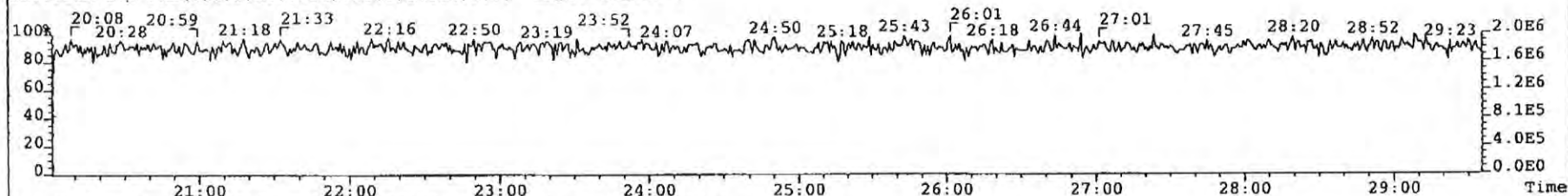


File: 090325P1 Acq: 25-MAR-2009 15:10:08 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: OPR1\_6679\_DF 0.6679\_OPR001 Vial# 17 File Text: AP DB5  
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 82

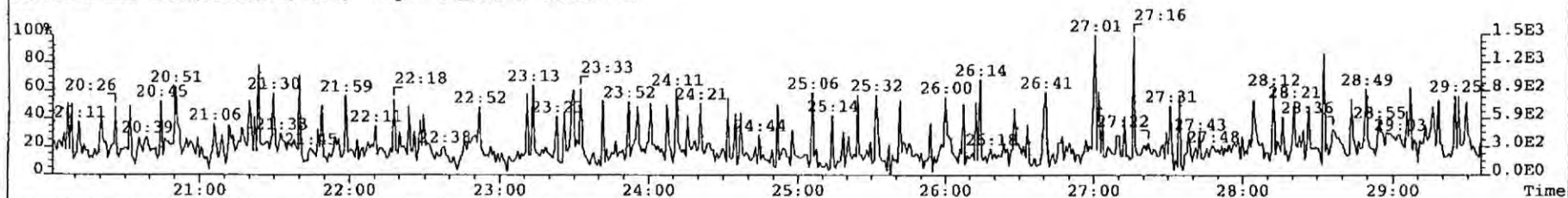




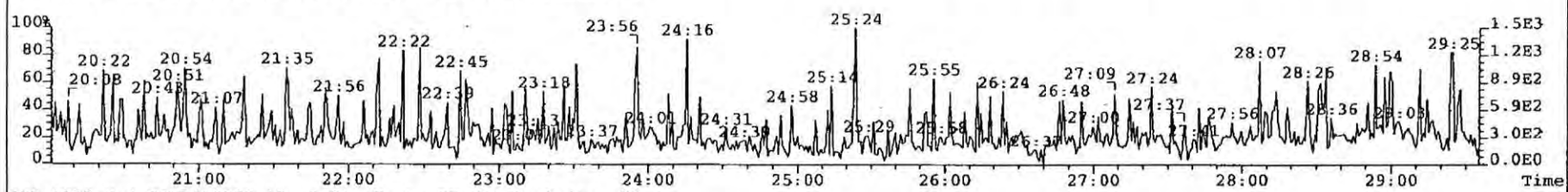
File: 090325P1 Acq: 25-MAR-2009 16:00:14 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5  
316.9824 S:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



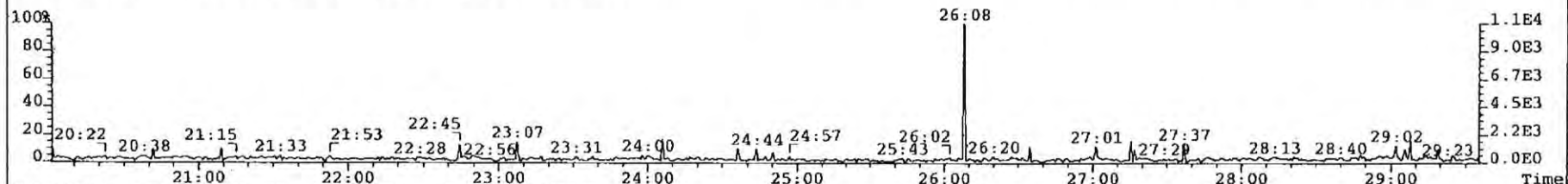
File: 090325P1 Acq: 25-MAR-2009 16:00:14 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5  
319.8965 S:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 79



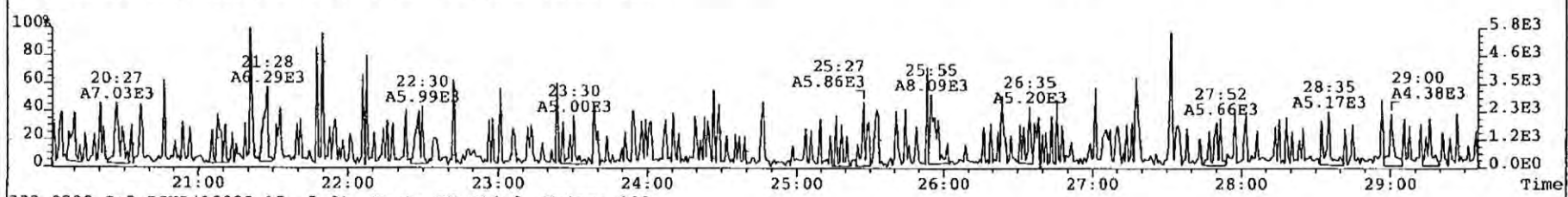
321.8936 S:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 80



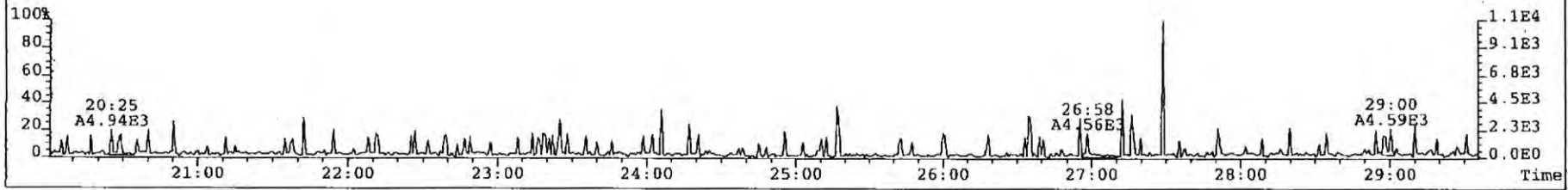
327.8850 S:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 90



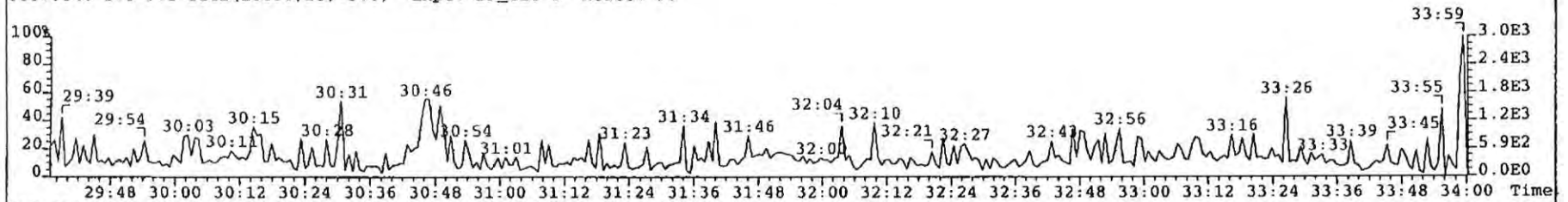
331.9368 S:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 105



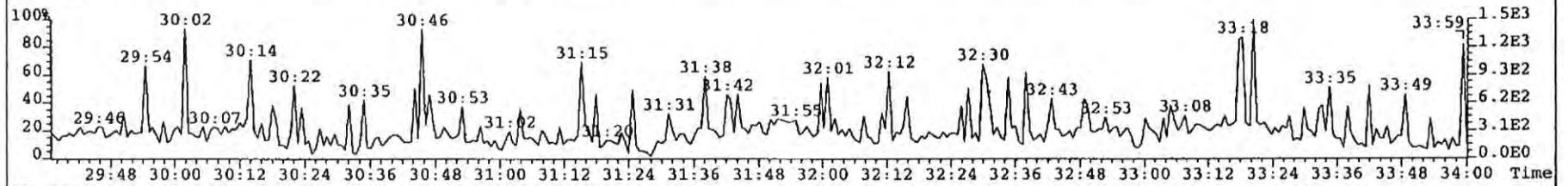
333.9339 S:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 100



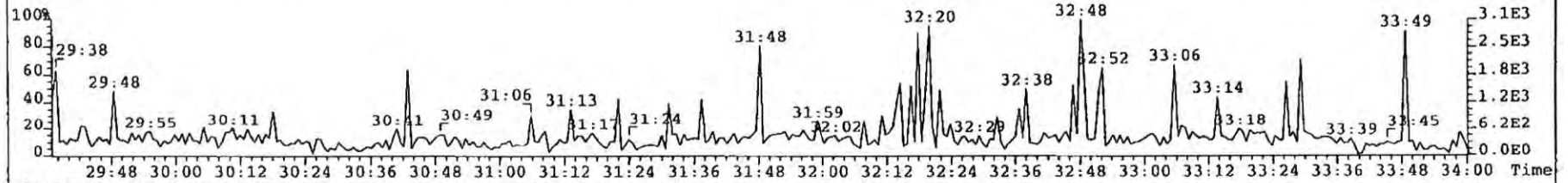
File: 090325P1 Acq: 25-MAR-2009 16:00:14 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5  
355.8546 S:3 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 98



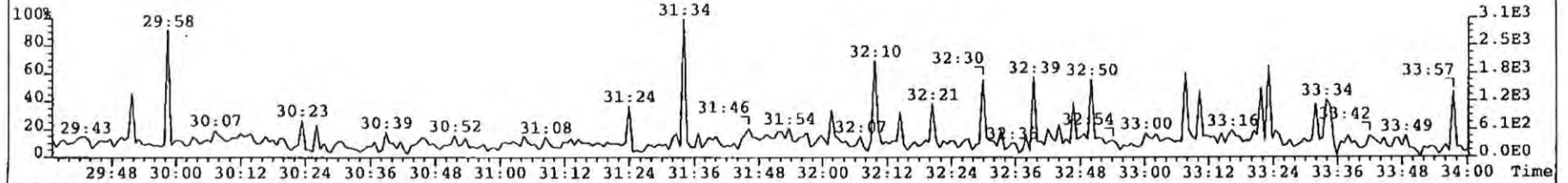
357.8517 S:3 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 84



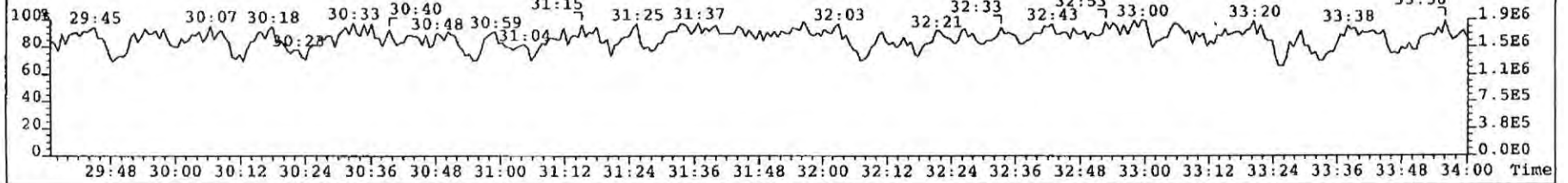
367.8949 S:3 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 116



369.8919 S:3 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 104



366.9792 S:3 F:2 PKD(5.5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

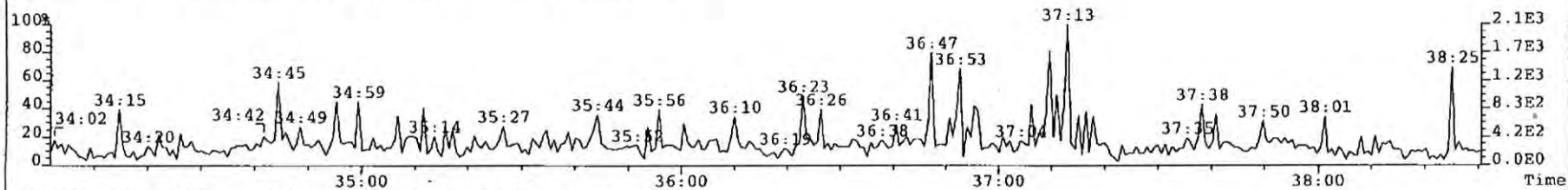




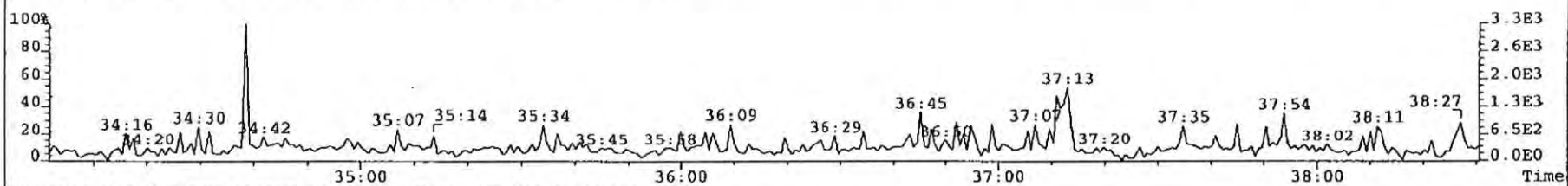
File: 090325P1 Acq: 25-MAR-2009 16:00:14 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5

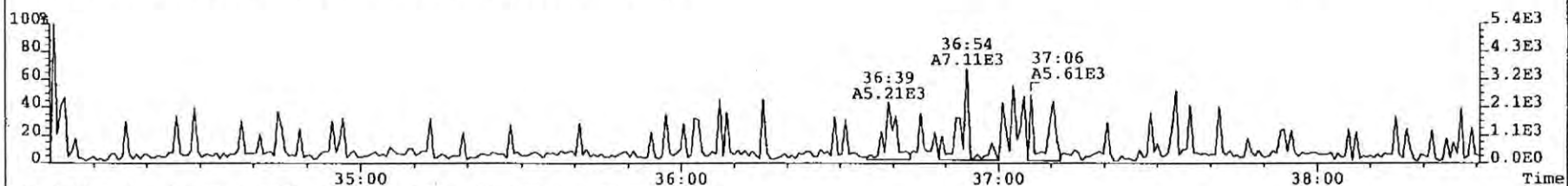
389.8156 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 86



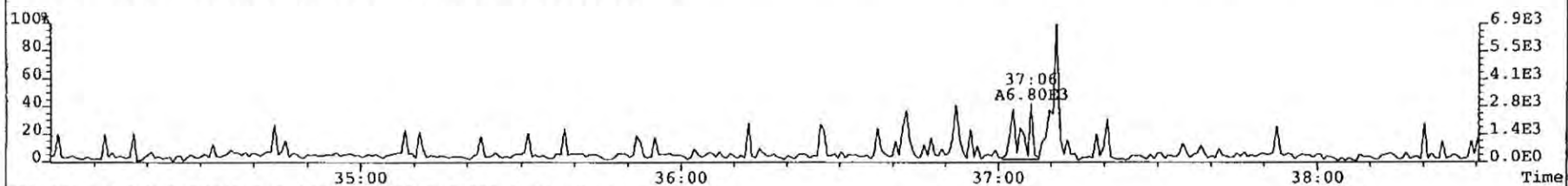
391.8127 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 86



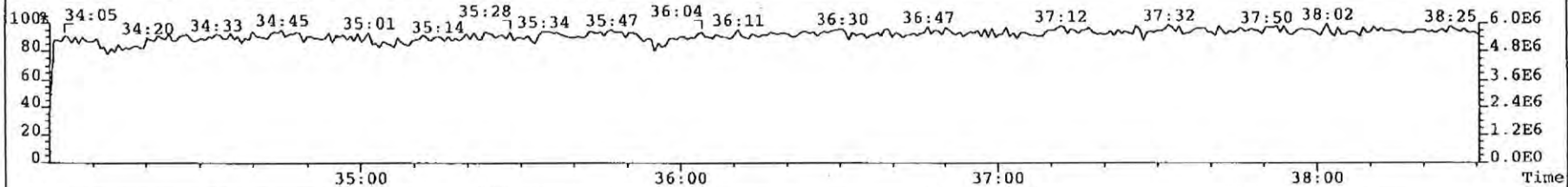
401.8559 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 100



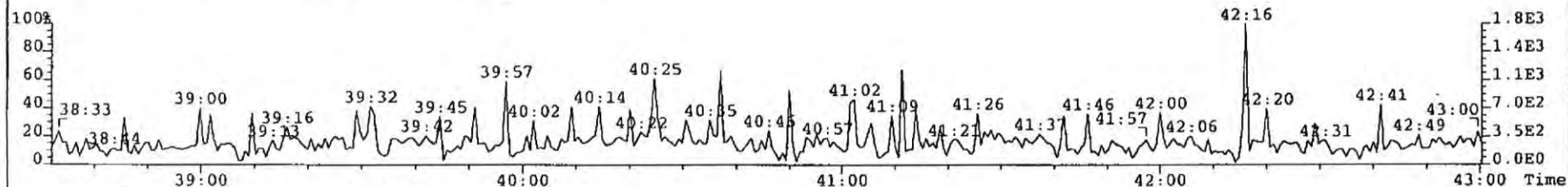
403.8530 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 96



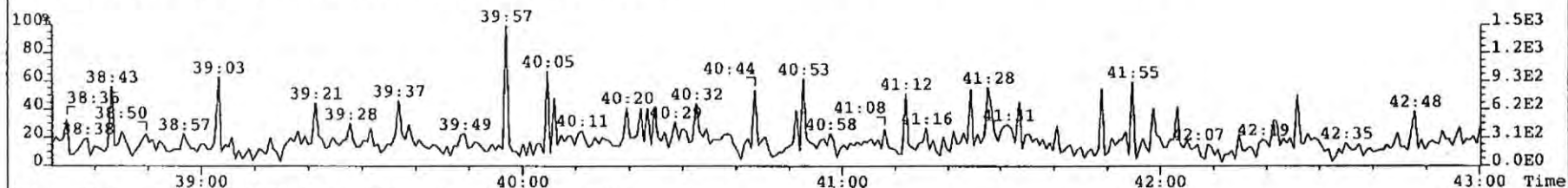
380.9760 S:3 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



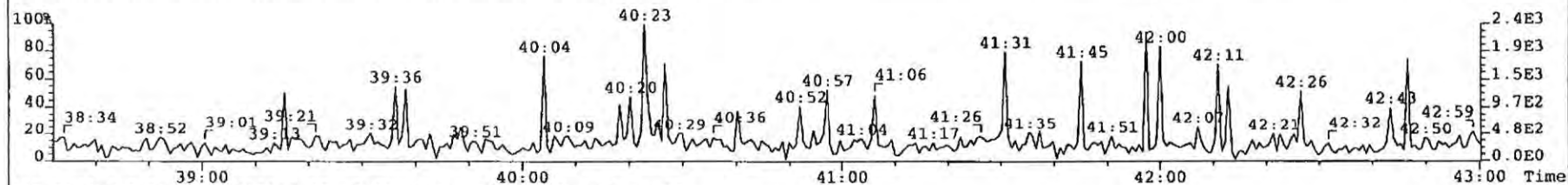
File: 090325P1 Acq: 25-MAR-2009 16:00:14 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5  
423.7767 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 79



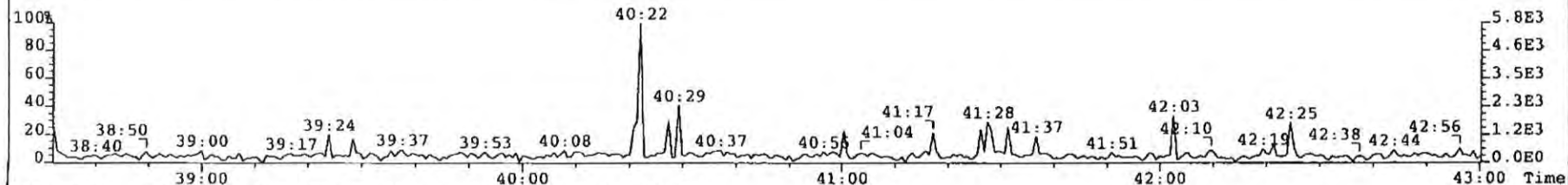
425.7737 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 77



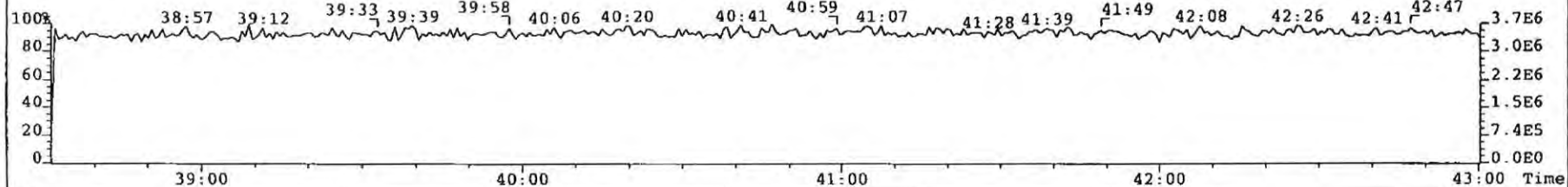
435.8169 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 92



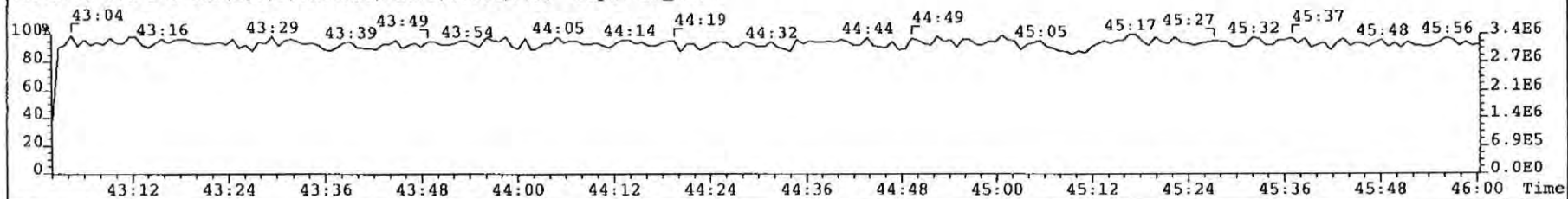
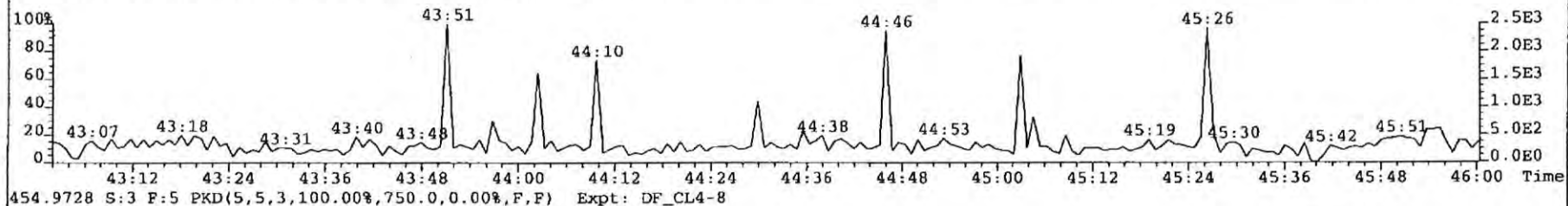
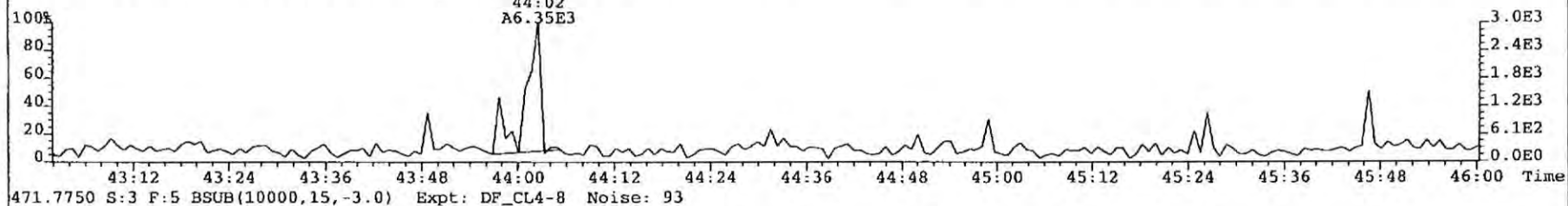
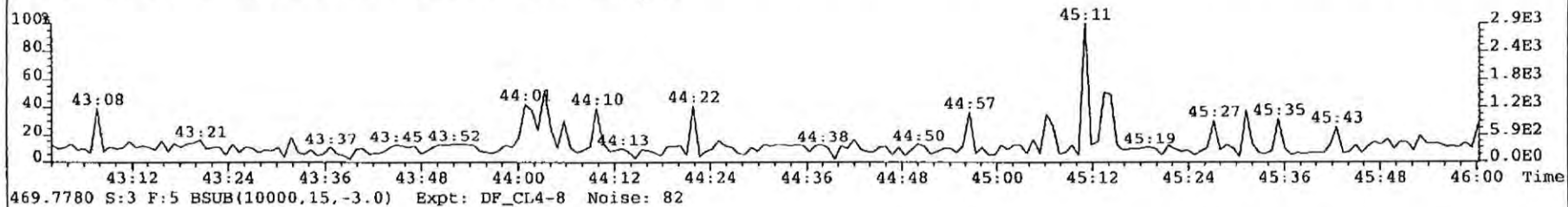
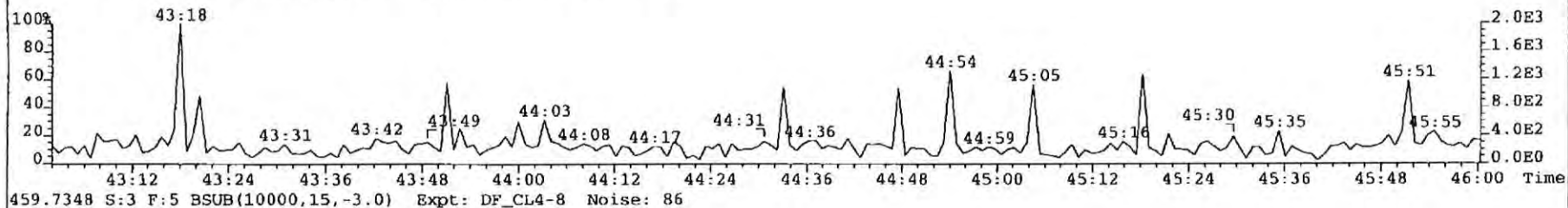
437.8140 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 93



430.9728 S:3 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

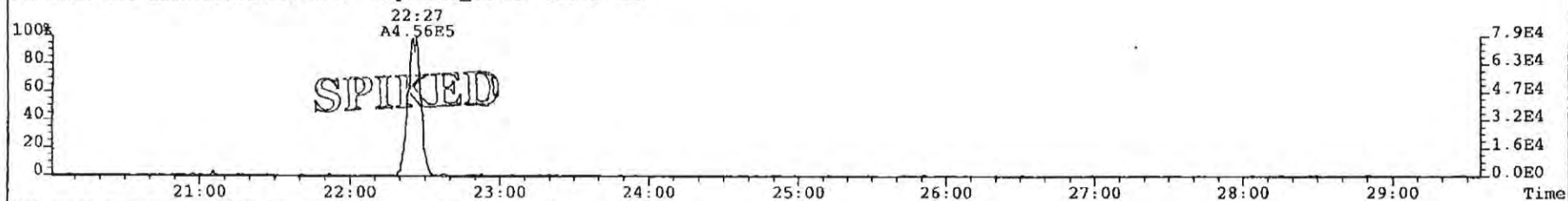


File: 090325P1 Acq: 25-MAR-2009 16:00:14 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5  
457.7377 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 69

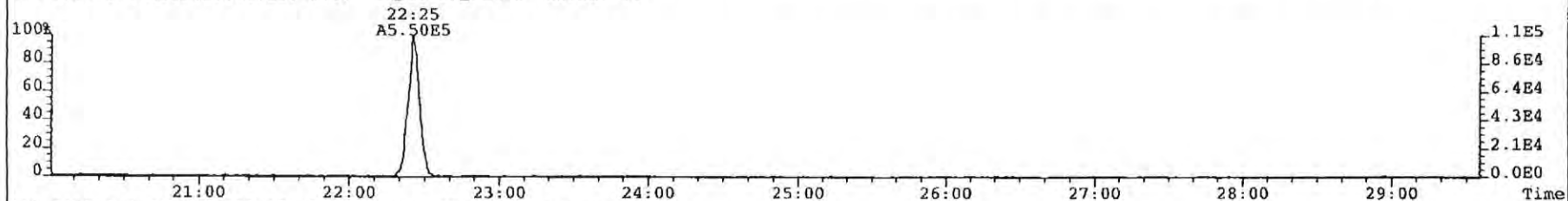




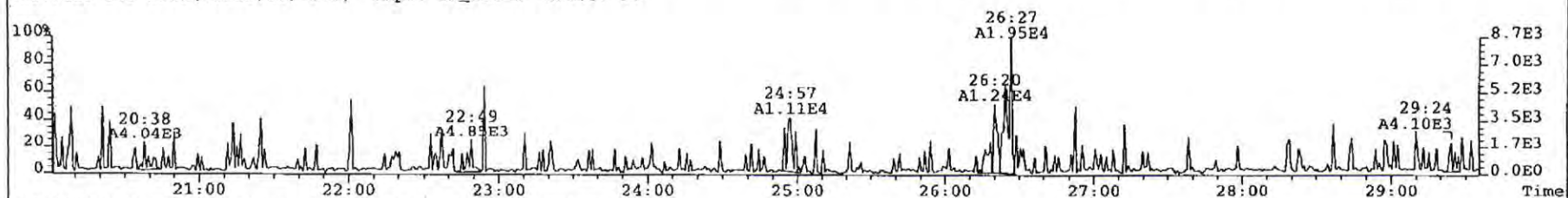
File: 090325P1 Acq: 25-MAR-2009 16:00:14 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5  
303.9016 S:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 85



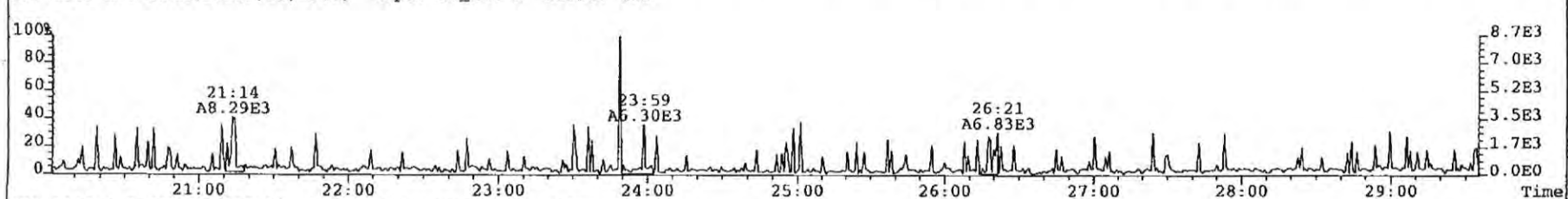
305.8987 S:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 91



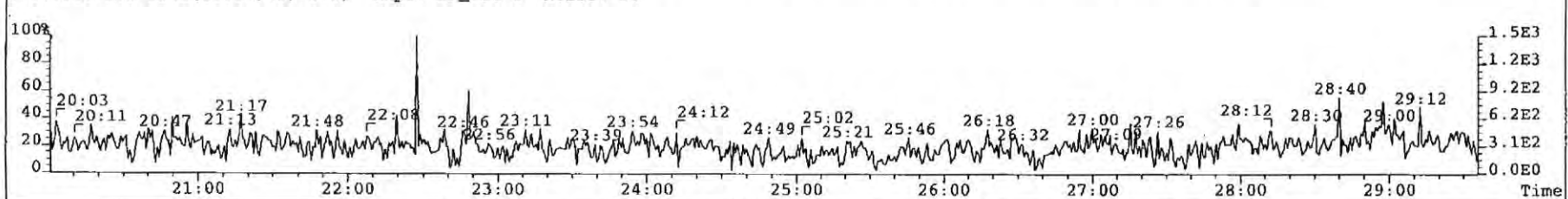
315.9419 S:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 96



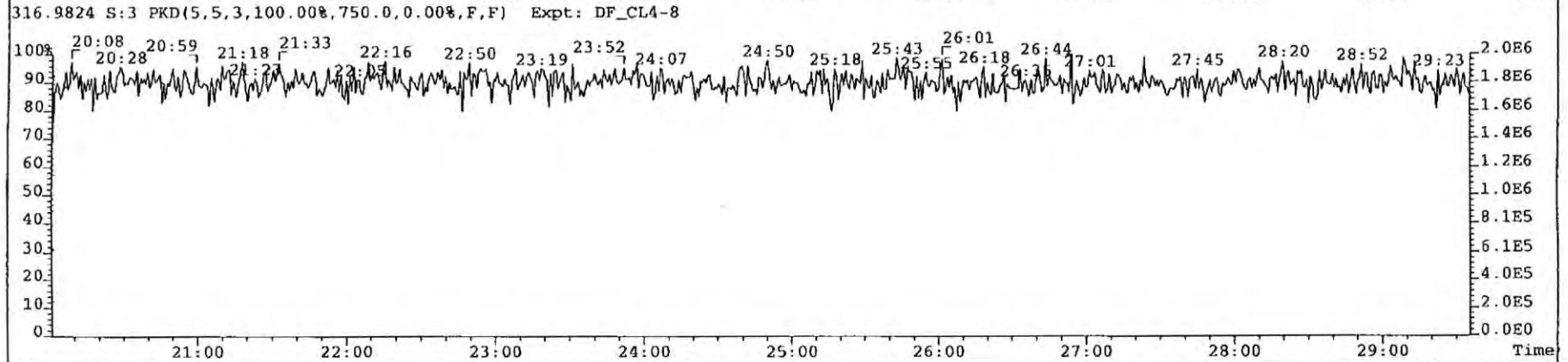
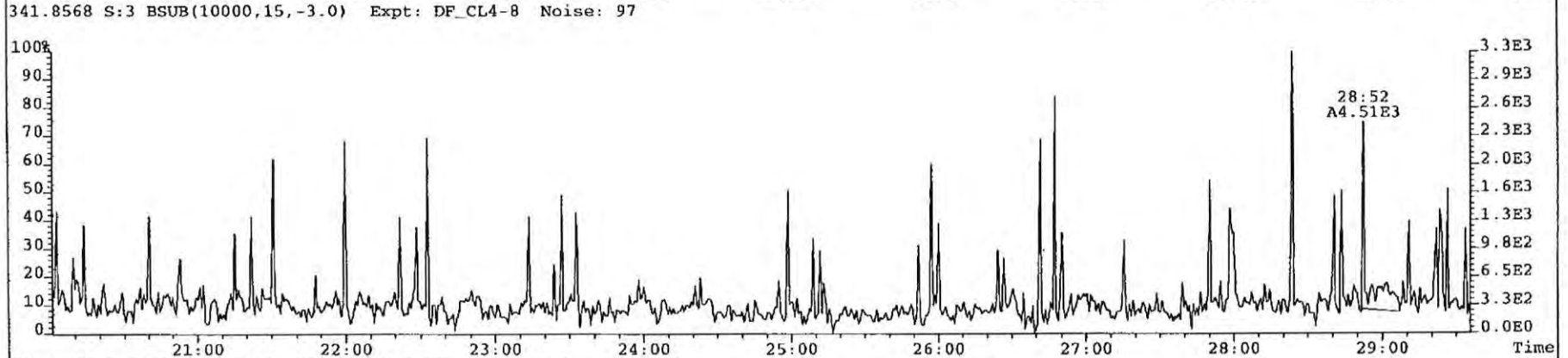
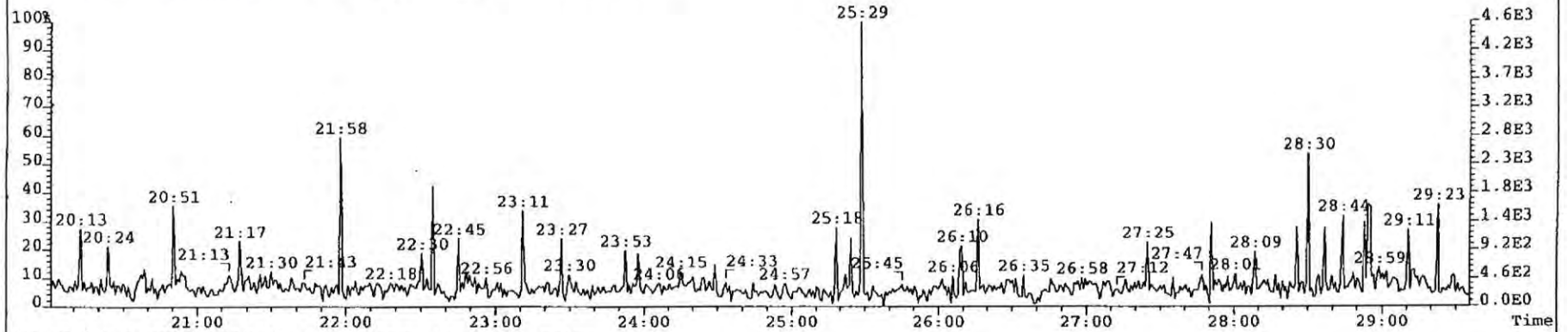
317.9389 S:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 103



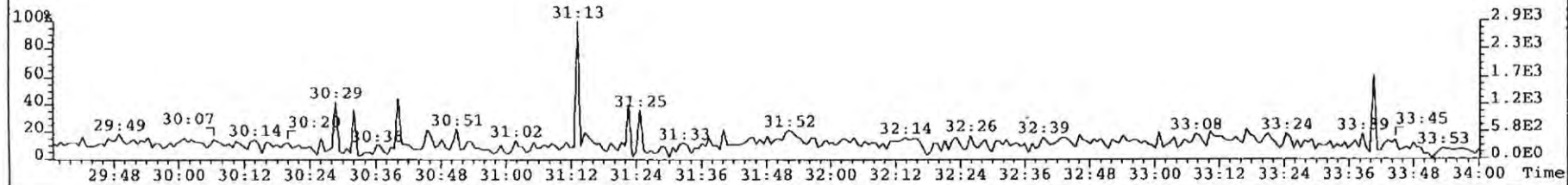
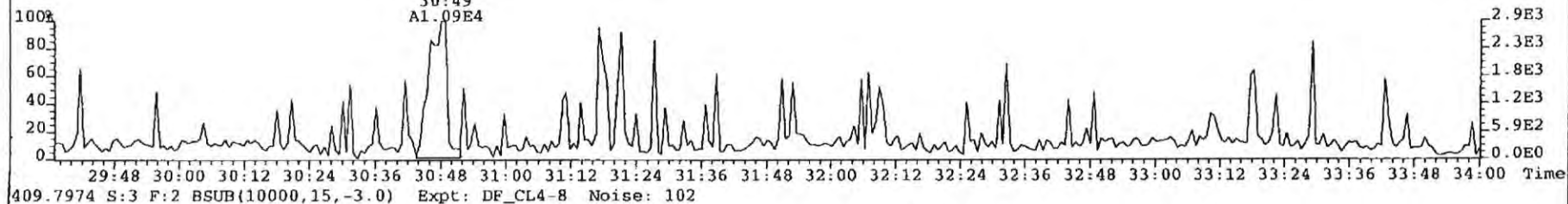
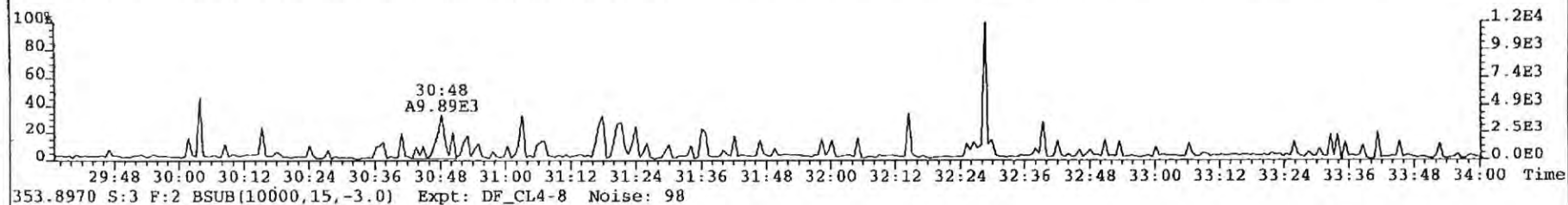
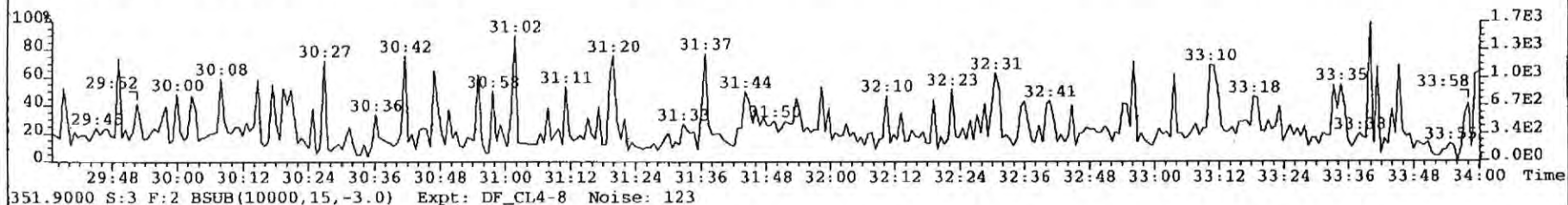
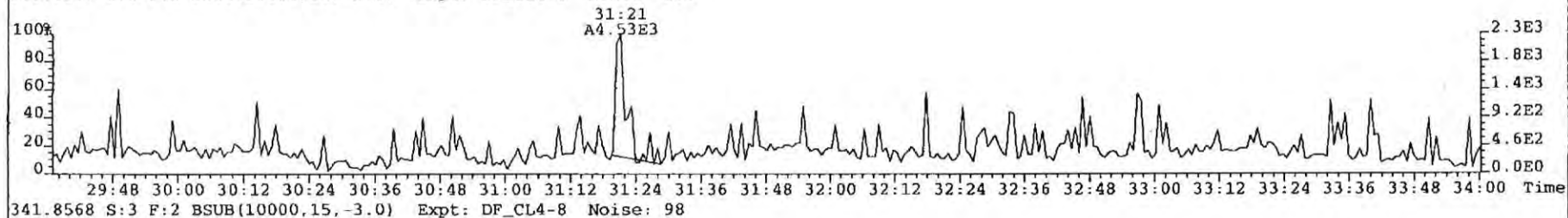
375.8364 S:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 99



File: 090325P1 Acq: 25-MAR-2009 16:00:14 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5  
339.8597 S:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 95

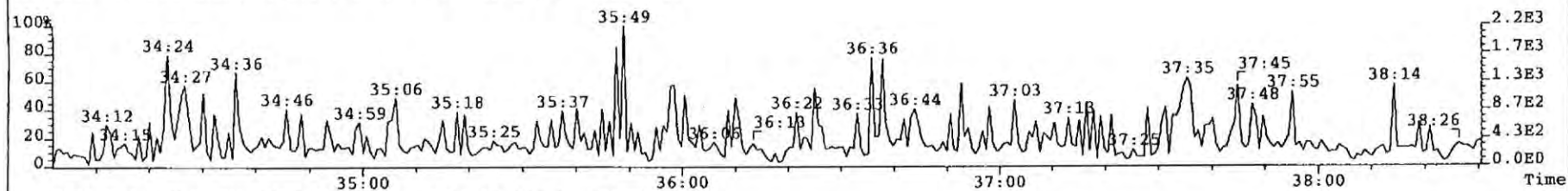


File: 090325P1 Acq: 25-MAR-2009 16:00:14 GC EI+ Voilage SIR Autospec-UltimaE  
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5  
339.8597 S:3 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 106

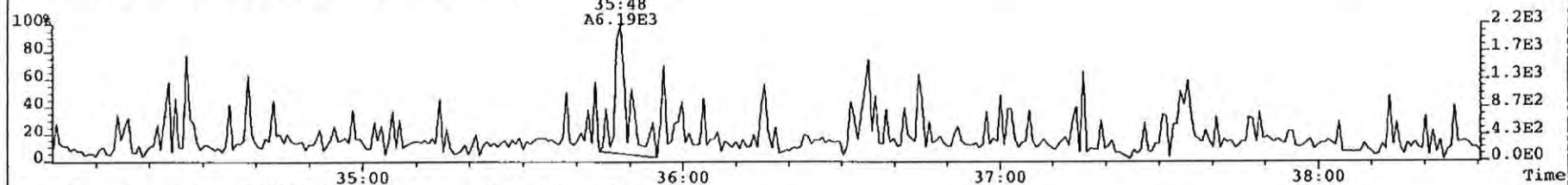




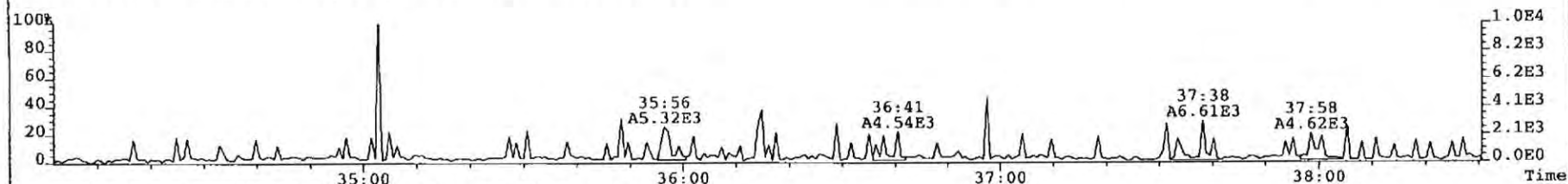
File: 090325P1 Acq: 25-MAR-2009 16:00:14 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5  
373.8207 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 89



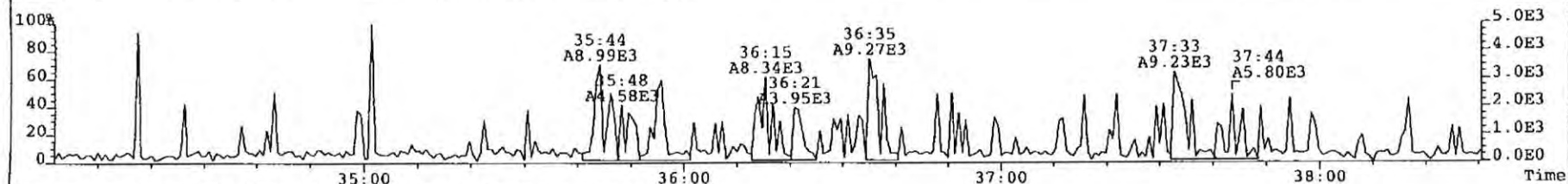
375.8178 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 83



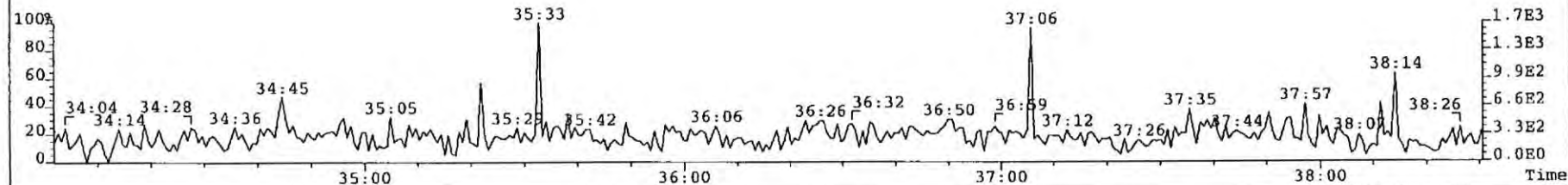
383.8639 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 107



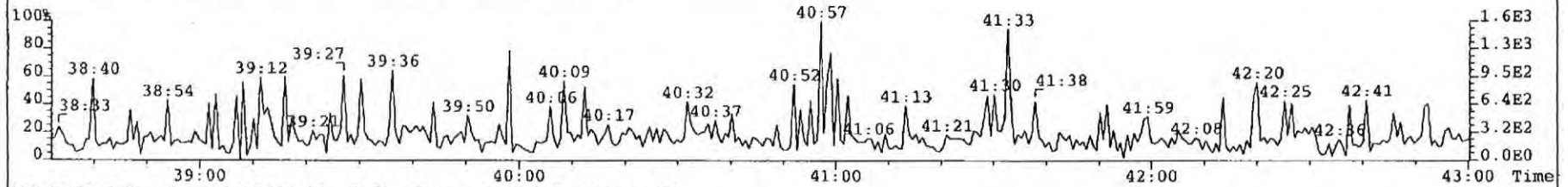
385.8610 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 100



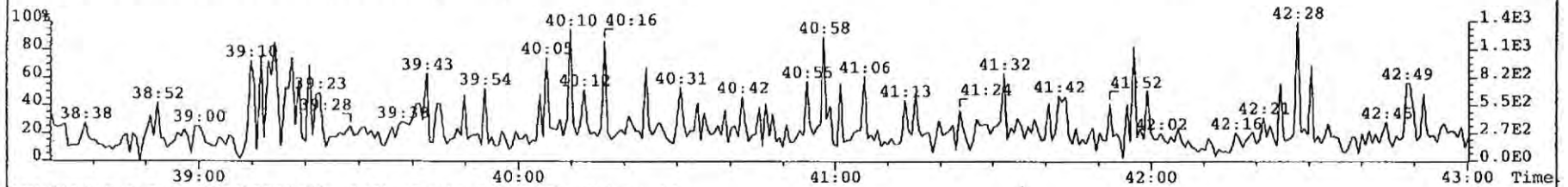
445.7555 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 94



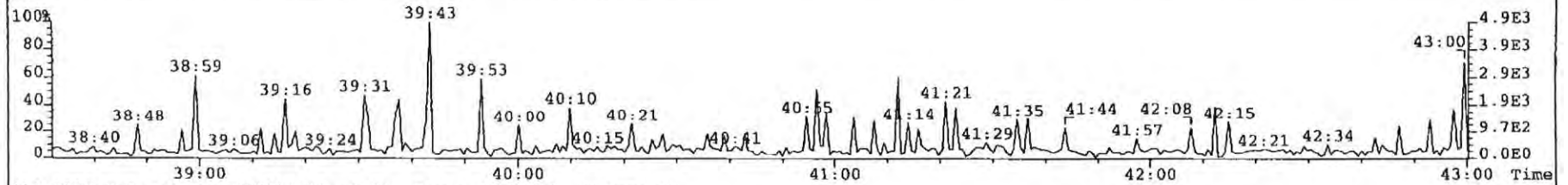
File: 090325P1 Acq: 25-MAR-2009 16:00:14 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5  
407.7818 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 70



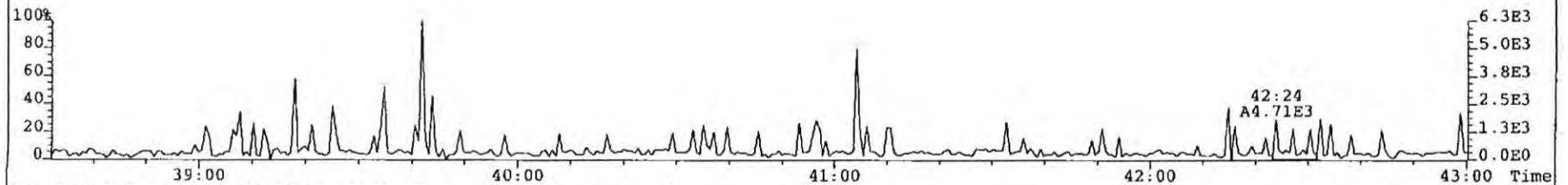
409.7788 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 80



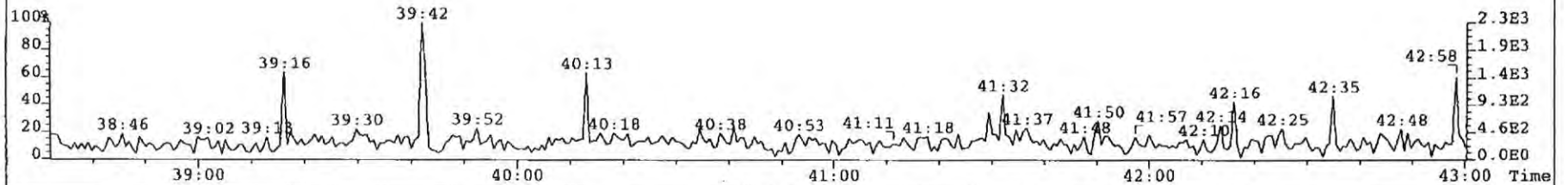
417.8253 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 82



419.8220 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 98



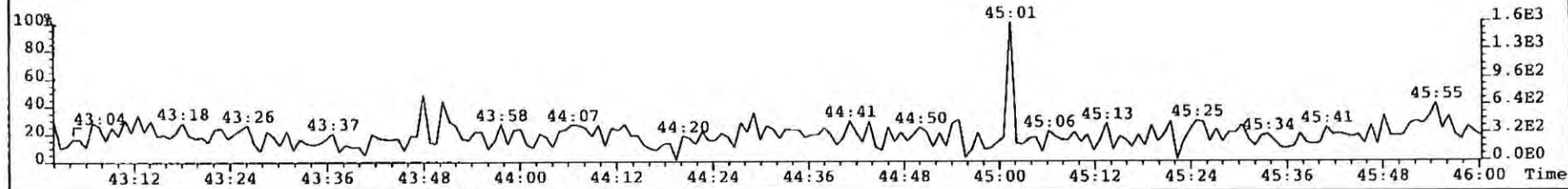
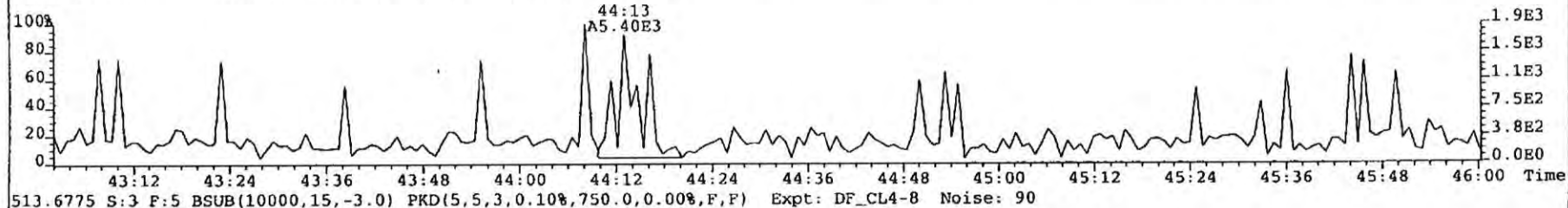
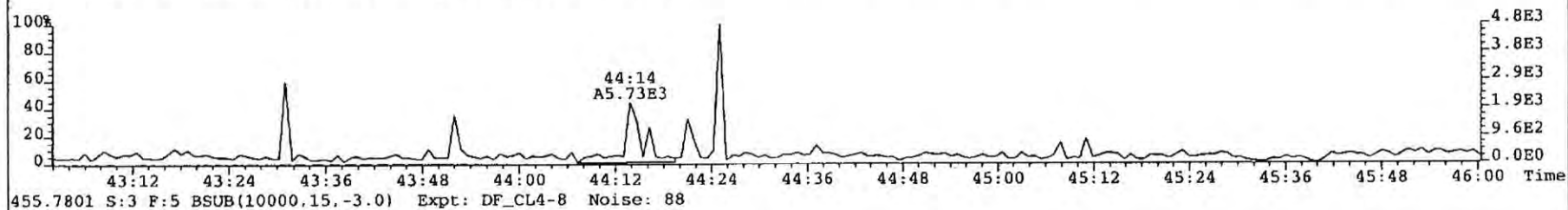
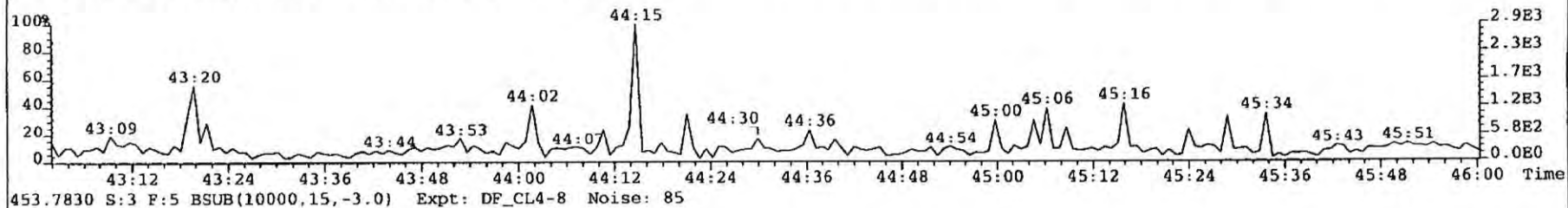
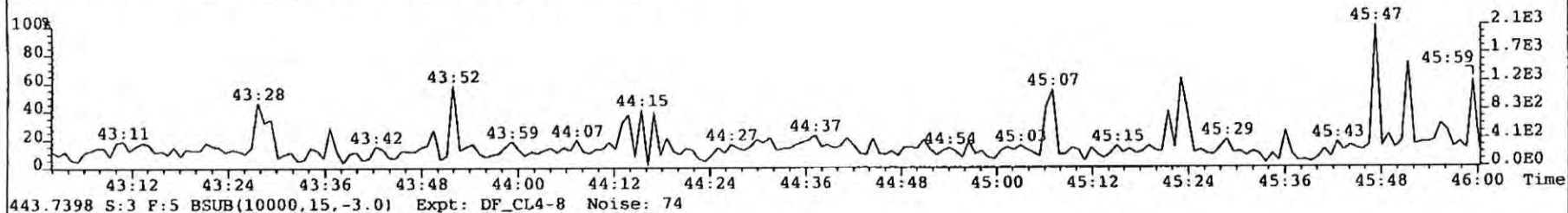
479.7165 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 91



File: 090325P1 Acq: 25-MAR-2009 16:00:14 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5

441.7428 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 80





1613/8290 Sample Summary

Analytical Perspectives

[Form: DF]

Client ID: 0\_6679\_OPR001

Filename: 090325P2

S: 2 Vial: 17

Acq: 25-MAR-09 23:43:27

Lab ID: CPSM

GC column ID: db-5

Cal: MM1\_DF\_07012007A\_25DEC08wt/Vol: 1.000

Sample text: CPSM 0\_6679\_OPR001

Stds: JS (split adj.): 100 CS/SS: 40.0 ES: 100

37C1-2,3,7,8-TCDD  
7 April 09

Typ	Name	Resp	RA	RT	RRF	Conc.	Noise	Fac	DL	Rec
Ax	2,3,7,8-TCDD	4.14e+06	0.80 y	27:18	1.08	9.47	1299	2.5	0.0576	-
Ax	1,2,3,7,8-PeCDD	1.88e+07	1.64 y	32:51	1.00	49.3	6427	2.5	0.393	-
Ax	1,2,3,4,7,8-HxCDD	1.68e+07	1.22 y	36:47	1.08	47.7	5760	2.5	0.331	-
Ax	1,2,3,6,7,8-HxCDD	1.74e+07	1.23 y	36:54	0.94	50.8	5760	2.5	0.370	-
Ax	1,2,3,7,8,9-HxCDD	1.72e+07	1.22 y	37:13	0.99	47.9	5760	2.5	0.378	-
Ax	1,2,3,4,6,7,8-HpCDD	1.36e+07	1.09 y	40:24	0.97	47.9	2872	2.5	0.217	-
Ax	OCDD	1.73e+07	0.88 y	44:00	1.06	101	4839	2.5	0.669	-
Ax2	OCDD-a	1.04e+06	2.50 y	44:00	0.06	101	453	2.5	1.05	-
Ax	2,3,7,8-TCDF	7.37e+06	0.79 y	26:22	1.05	10.2	1818	2.5	0.0492	-
Ax	1,2,3,7,8-PeCDF	3.12e+07	1.58 y	31:21	0.98	48.0	6535	2.5	0.234	-
Ax	2,3,4,7,8-PeCDF	3.30e+07	1.61 y	32:29	1.01	47.3	6535	2.5	0.209	-
Ax	1,2,3,4,7,8-HxCDF	2.51e+07	1.26 y	35:49	1.22	47.3	7620	2.5	0.194	-
Ax	1,2,3,6,7,8-HxCDF	2.90e+07	1.27 y	35:58	1.15	47.5	7620	2.5	0.185	-
Ax	2,3,4,6,7,8-HxCDF	2.80e+07	1.26 y	36:36	1.13	49.1	7620	2.5	0.193	-
Ax	1,2,3,7,8,9-HxCDF	2.11e+07	1.28 y	37:35	1.12	48.8	7620	2.5	0.269	-
Ax	1,2,3,4,6,7,8-HpCDF	2.40e+07	1.03 y	39:13	1.37	50.9	4233	2.5	0.119	-
Ax	1,2,3,4,7,8,9-HpCDF	1.73e+07	1.08 y	40:59	1.32	49.2	4233	2.5	0.188	-
Ax	OCDF	2.33e+07	0.92 y	44:15	0.94	98.3	4643	2.5	0.454	-
Ax2	OCDF-a	1.25e+06	2.66 y	44:15	0.05	93.7	1079	2.5	1.88	-
ES	13C-2,3,7,8-TCDD	4.04e+07	0.83 y	27:17	0.99	68.1	2096	2.5	0.0688	68.1
ES	13C-1,2,3,7,8-PeCDD	3.83e+07	1.67 y	32:50	0.83	76.8	9481	2.5	0.370	76.8
ES	13C-1,2,3,4,7,8-HxCDD	3.24e+07	1.26 y	36:46	1.08	77.9	13469	2.5	0.695	77.9
ES	13C-1,2,3,6,7,8-HxCDD	3.63e+07	1.34 y	36:53	1.23	77.0	13469	2.5	0.614	77.0
ES	13C-1,2,3,7,8,9-HxCDD	3.62e+07	1.23 y	37:11	1.21	77.8	13469	2.5	0.622	77.8
ES	13C-1,2,3,4,6,7,8-HpCDD	2.92e+07	1.08 y	40:23	0.98	77.3	7937	2.5	0.451	77.3
ES	13C-OCDD	3.24e+07	0.84 y	44:00	0.66	128	7433	2.5	0.629	64.0
ES	13C-2,3,7,8-TCDF	6.88e+07	0.81 y	26:21	0.96	78.5	4224	2.5	0.104	78.5
ES	13C-1,2,3,7,8-PeCDF	6.59e+07	1.58 y	31:20	0.85	84.2	9719	2.5	0.269	84.2
ES	13C-2,3,4,7,8-PeCDF	6.89e+07	1.60 y	32:28	0.88	85.0	9719	2.5	0.260	85.0
ES	13C-1,2,3,4,7,8-HxCDF	4.35e+07	0.54 y	35:48	1.47	76.7	28638	2.5	1.08	76.7
ES	13C-1,2,3,6,7,8-HxCDF	5.31e+07	0.53 y	35:56	1.78	77.7	28638	2.5	0.901	77.7
ES	13C-2,3,4,6,7,8-HxCDF	5.04e+07	0.53 y	36:35	1.61	81.4	28638	2.5	0.994	81.4
ES	13C-1,2,3,7,8,9-HxCDF	3.88e+07	0.52 y	37:34	1.40	72.1	28638	2.5	1.14	72.1
ES	13C-1,2,3,4,6,7,8-HpCDF	3.45e+07	0.47 y	39:13	1.16	77.4	12559	2.5	0.604	77.4
ES	13C-1,2,3,4,7,8,9-HpCDF	2.66e+07	0.46 y	40:58	0.92	75.1	12559	2.5	0.761	75.1
ES	13C-OCDF	5.05e+07	0.90 y	44:14	1.04	127	11735	2.5	0.632	63.3
CS	37C1-2,3,7,8-TCDD	1.69e+07		27:18	0.99	28.6			0.111	71.5
CS	13C-1,2,3,4,7-PeCDD	3.89e+07	1.66 y	32:20	0.77	84.7	9481	2.5	0.401	84.7
CS	13C-1,2,3,4,6-PeCDF	6.46e+07	1.55 y	30:49	0.79	88.7	9719	2.5	0.289	88.7
CS	13C-1,2,3,4,6,9-HxCDF	4.72e+07	0.53 y	36:15	1.41	86.9	28638	2.5	1.13	86.9
CS	13C-1,2,3,4,6,8,9-HpCDF	3.00e+07	0.46 y	39:42	0.91	85.7	12559	2.5	0.771	85.7
NA	n/a	*	* n	NotF>	Div0	*	4416	2.5	*	*
JS/RT	13C-1,2,3,4-TCDD	5.97e+07	0.83 y	26:37	-	170	2096	2.5	-	-
JS	13C-1,2,3,4-TCDF	9.17e+07	0.82 y	24:57	-	165	4224	2.5	-	-
JS/RT	13C-1,2,3,4,6,7-HxCDD	1.92e+07	1.37 y	37:05	-	88.3	1394	2.5	-	-

Analyst:

Date:

*[Signature]*  
*[Signature]*

7 April 09

quan on MM1 2-APR-2009 10:38 checkcode:

SS	37Cl-2,3,7,8-TCDD	1.69e+07		27:18	1.00	41.8			0.162	104
SS	13C-1,2,3,4,7-PeCDD	3.89e+07	1.66 y	32:20	0.93	110	9481	2.5	0.624	110
SS	13C-1,2,3,4,6-PeCDF	6.46e+07	1.55 y	30:49	0.94	105	9719	2.5	0.367	105
SS	13C-1,2,3,4,6,9-HxCDF	4.72e+07	0.53 y	36:15	0.80	111	28638	2.5	0.999	111
SS	13C-1,2,3,4,6,8,9-HpCDF	3.00e+07	0.46 y	39:42	0.79	110	12559	2.5	0.609	110
SBS	2,4,6,8-TCDF	2.08e+06	0.80 y	22:27	1.05	2.89	1818	2.5	0.0492	-
Ay	1,3,6,8-TCDD	4.44e+06	0.78 y	23:26	1.08	10.1	1299	2.5	0.0576	-
Ay	1,2,3,9-TCDD	5.76e+06	0.80 y	27:09	1.08	13.2	1299	2.5	0.0576	-
Ay	1,2,8,9-TCDD	5.40e+06	0.77 y	28:20	1.08	12.4	1299	2.5	0.0576	-
Ay	1,2,4,7,9-PeCDD	5.08e+06	1.66 y	30:18	1.00	13.3	6427	2.5	0.393	-
Ay	1,2,3,8,9-PeCDD	4.49e+06	1.61 y	33:18	1.00	11.8	6427	2.5	0.393	-
Ay	1,2,4,6,7,9-HxCDD	4.40e+06	1.22 y	35:05	1.00	12.5	5760	2.5	0.360	-
Ay	1,2,3,4,6,7,9-HpCDD	3.56e+06	1.10 y	39:33	0.97	12.5	2872	2.5	0.217	-
Ay	1,3,6,8-TCDF	8.90e+06	0.80 y	21:17	1.05	12.4	1818	2.5	0.0492	-
Ay	2,3,4,8-TCDF	6.80e+06	0.77 y	26:16	1.05	9.45	1818	2.5	0.0492	-
Ay	1,2,8,9-TCDF	8.95e+06	0.78 y	28:29	1.05	12.4	1818	2.5	0.0492	-
Ay	1,3,4,6,8-PeCDF	*	* n	NotF>	1.05	*	2392	2.5	0.0648	-
Ay	1,2,3,8,9-PeCDF	5.03e+06	1.54 y	33:35	1.00	7.47	6535	2.5	0.221	-
Ay	1,2,3,4,6,8-HxCDF	6.04e+07	1.25 y	34:25	1.15	113	7620	2.5	0.207	-
Tot	Total Tetra-Dioxins	1.98e+07	0.78 y	23:26	1.08	45.3	1299	2.5	0.0576	-
Tot	Total Penta-Dioxins	2.85e+07	1.66 y	30:18	1.00	74.5	6427	2.5	0.393	-
Tot	Total Hexa-Dioxins	5.58e+07	1.22 y	35:05	1.00	159	5760	2.5	0.360	-
Tot	Total Hepta-Dioxins	1.72e+07	1.10 y	39:33	0.97	60.4	2872	2.5	0.217	-
Tot	Total Tetra-Furans	3.42e+07	0.80 y	21:17	1.05	47.6	1818	2.5	0.0492	-
Tot	Total Penta-Furans	7.12e+07	1.55 y	30:12	1.00	106	6535	2.5	0.221	-
Tot	Total Hexa-Furans	1.64e+08	1.25 y	34:25	1.15	305	7620	2.5	0.207	-
Tot	Total Hepta-Furans	4.16e+07	1.03 y	39:13	1.35	101	4233	2.5	0.149	-
Tot	TCDD EMPC	2.00e+07	0.78 y	23:26	1.08	45.7	1299	2.5	0.0576	-
Tot	PeCDD EMPC	2.87e+07	1.66 y	30:18	1.00	75.0	6427	2.5	0.393	-
Tot	HxCDD EMPC	5.58e+07	1.22 y	35:05	1.00	159	5760	2.5	0.360	-
Tot	HpCDD EMPC	1.72e+07	1.10 y	39:33	0.97	60.4	2872	2.5	0.217	-
Tot	TCDF EMPC	3.45e+07	0.80 y	21:17	1.05	48.0	1818	2.5	0.0492	-
Tot	PeCDF EMPC	7.14e+07	1.55 y	30:12	1.00	106	6535	2.5	0.221	-
Tot	HxCDF EMPC	1.64e+08	1.25 y	34:25	1.15	306	7620	2.5	0.207	-
Tot	HpCDF EMPC	4.18e+07	1.03 y	39:13	1.35	101	4233	2.5	0.149	-
AS	13C-1,3,6,8-TCDD	4.04e+07	0.82 y	23:25	1.09	62.2	2096	2.5	0.0628	62.2
AS	13C-1,3,6,8-TCDF	7.65e+07	0.78 y	21:15	1.09	76.6	4224	2.5	0.0916	76.6
DPE	HxCDFPE	*		NotF>	-	*	-	-	-	-
DPE	HpCDFPE	*		NotF>	-	*	-	-	-	-
DPE	OCDFPE	*		NotF>	-	*	-	-	-	-
DPE	NCDFPE	*		NotF>	-	*	-	-	-	-
DPE	DCDFPE	*		NotF>	-	*	-	-	-	-
LMC	Fn1 check mass	*		NotF>	-	*	-	-	-	-
LMC	Fn2 check mass	*		NotF>	-	*	-	-	-	-
LMC	Fn3 check mass	*		NotF>	-	*	-	-	-	-
LMC	Fn4 check mass	*		NotF>	-	*	-	-	-	-
LMC	Fn5 check mass	*		NotF>	-	*	-	-	-	-

PCDD/PCDF RT Window & Isomer Specificity Standards

Analytical Perspectives

[Form: CPSM]

Client ID: 0\_6679\_OPR001

Filename: 090325P2 S: 2 Vial: 17

Acq: 25-MAR-09 23:43:27

Lab ID: CPSM

GC Column ID: db-5 ICal: MM1\_DF\_07012007A\_25 Wt/Vol: 1.000

Sample text: CPSM 0\_6679\_OPR001

Window Defining Standards Results

First Eluting Isomer	RT	Last Eluting Isomer	RT
1,3,6,8-TCDD	23:26	1,2,8,9-TCDD	28:28
1,2,4,7,9-PeCDD	30:18	1,2,3,8,9-PeCDD	33:18
1,2,4,6,7,9-HxCDD	35:05	1,2,3,7,8,9-HxCDD	37:13
1,2,3,4,6,7,9-HpCDD	39:33	1,2,3,4,6,7,8-HpCDD	40:24
1,3,6,8-TCDF	21:17	1,2,8,9-TCDF	28:29
1,3,4,6,8-PeCDF	28:27	1,2,3,8,9-PeCDF	33:35
1,2,3,4,6,8-HxCDF	34:25	1,2,3,7,8,9-HxCDF	37:35
1,2,3,4,6,7,8-HpCDF	39:15	1,2,3,4,7,8,9-HpCDF	40:59

Isomer Specificity Test Standard Results

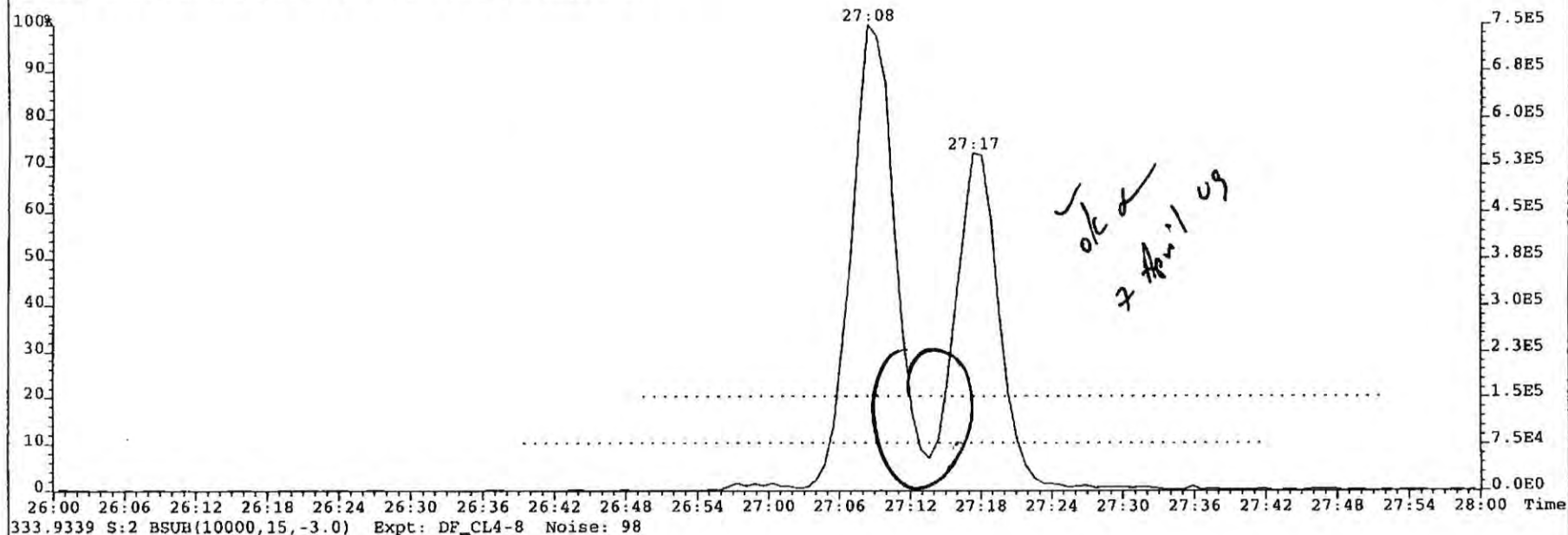
2,3,7,8 Isomer	RT	Closest Isomer	RT	
2,3,7,8-TCDD	27:18	1,2,3,9-TCDD	27:09	% Valley <= 10%
2,3,7,8-TCDF	26:22	2,3,4,8-TCDF	26:14	% Valley <= 40%

Analyst: *[Signature]*

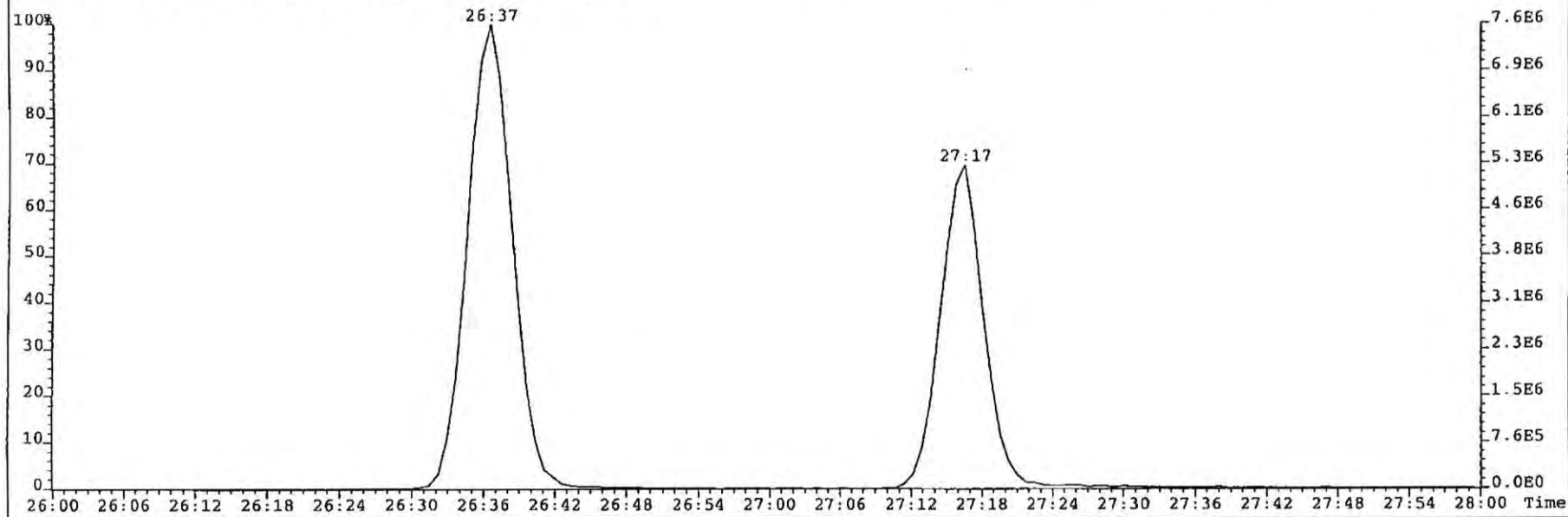
Date: *[Signature]*



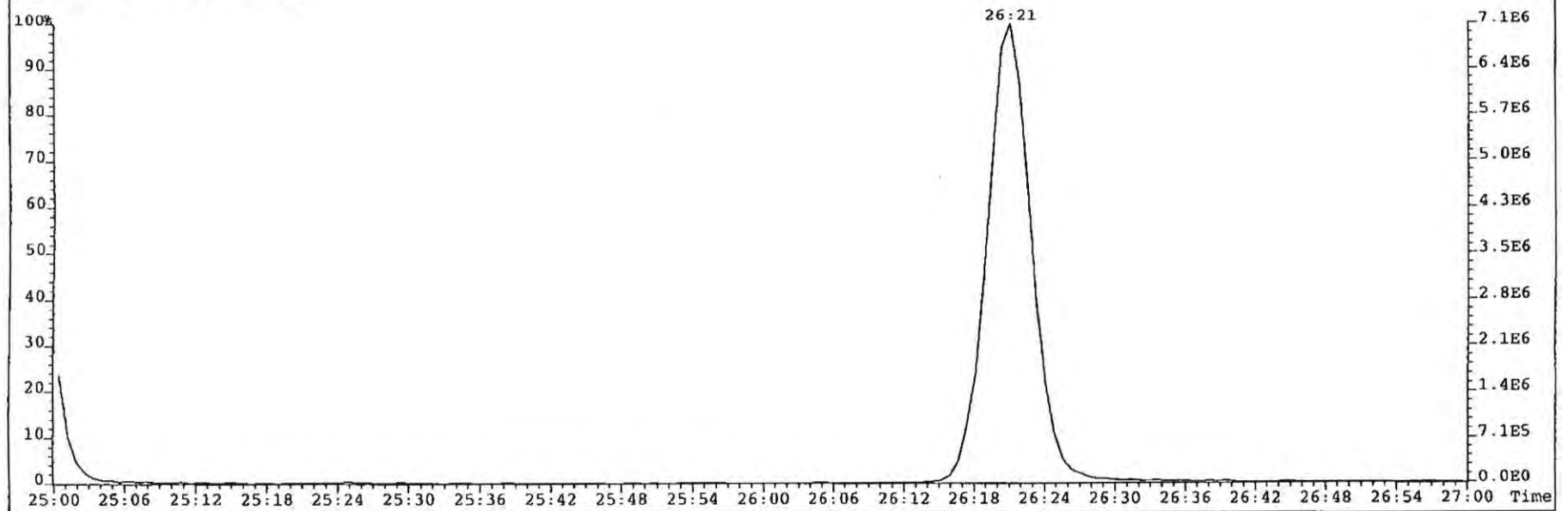
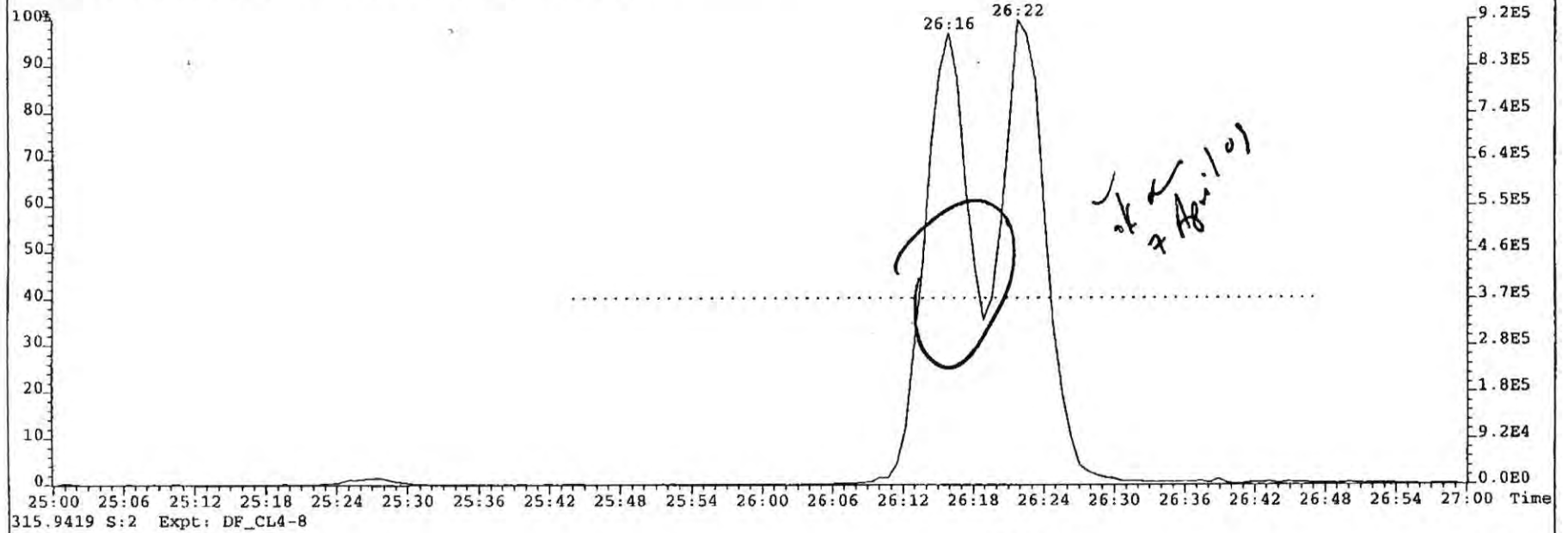
File: 090325P2 Acq: 25-MAR-2009 23:43:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: CPSM 0\_6679\_OPR001 Vial# 17 File Text: AP DB5  
321.8936 S:2 BSub(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 127



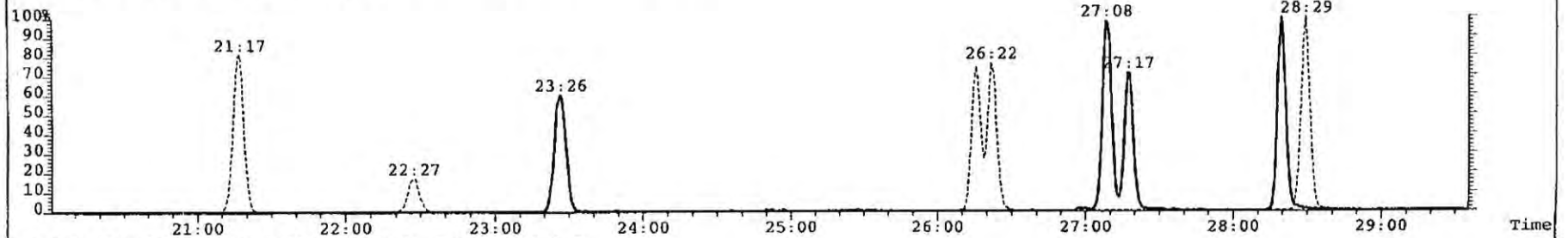
333.9339 S:2 BSub(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 98



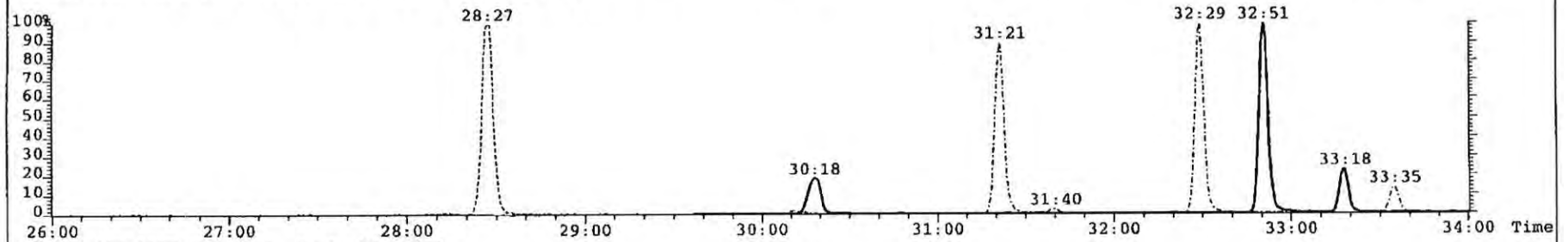
File: 090325P2 Acq: 25-MAR-2009 23:43:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: CPSM 0\_6679\_OPR001 Vial# 17 File Text: AP DB5  
305.8987 S:2 BSub(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 84



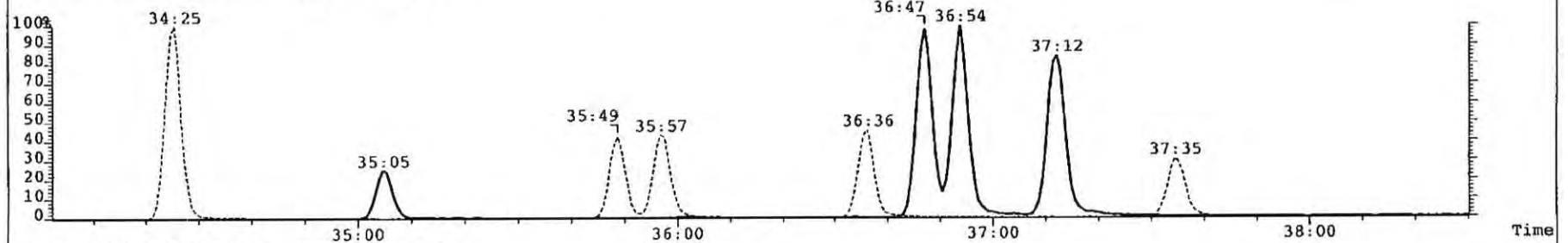
File: 090325P2 Acq: 25-MAR-2009 23:43:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: CP5M\_0\_6679\_OPR001 Vial# 17 File Text: AP DB5  
S:2 305.8987,321.8936 Expt: DF\_CL4-8



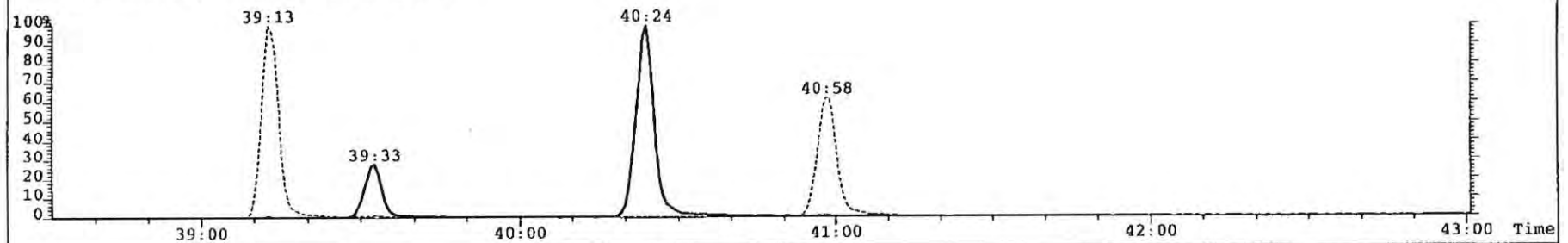
S:2 339.8597,355.8546 F:2,339.8597 F:2 Expt: DF\_CL4-8



S:2 F:3 373.8207,389.8156 Expt: DF\_CL4-8

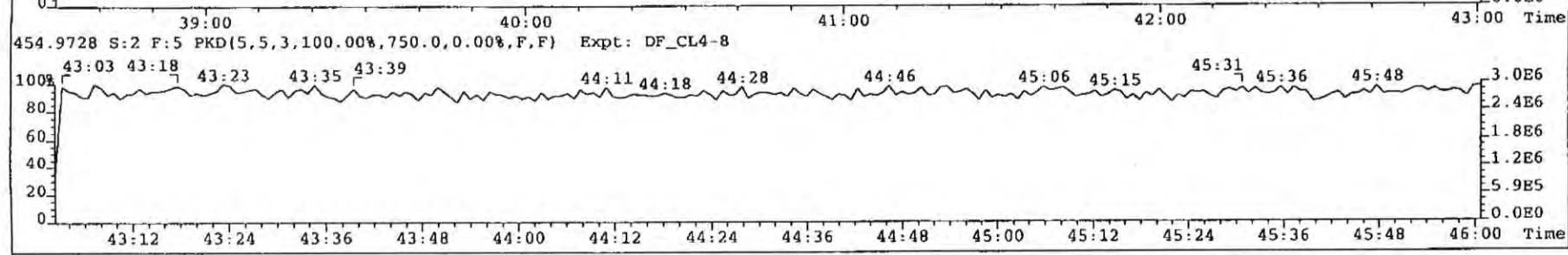
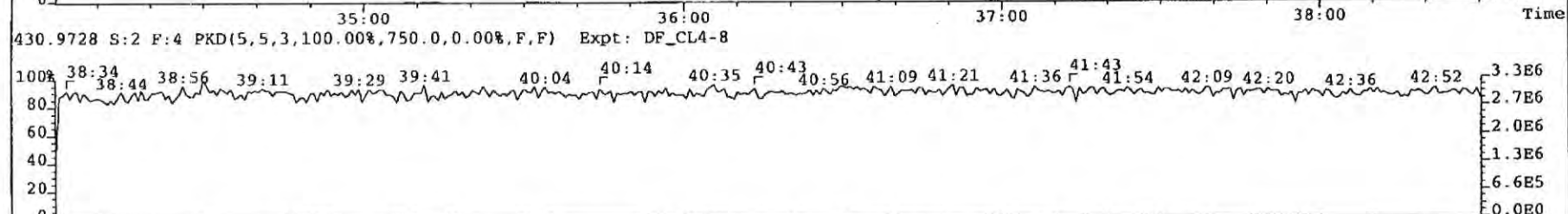
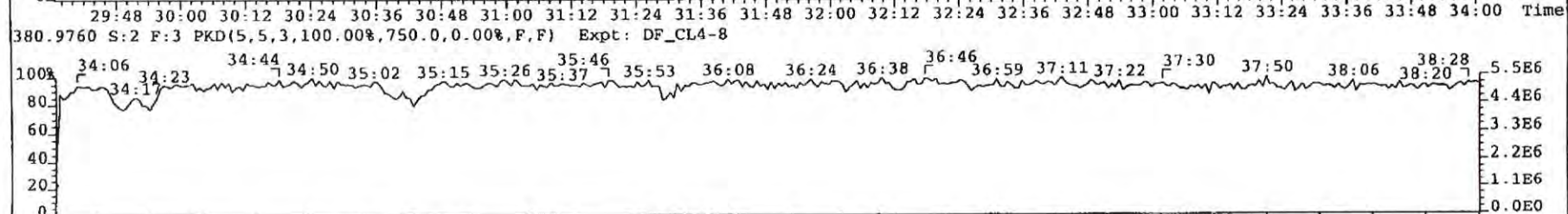
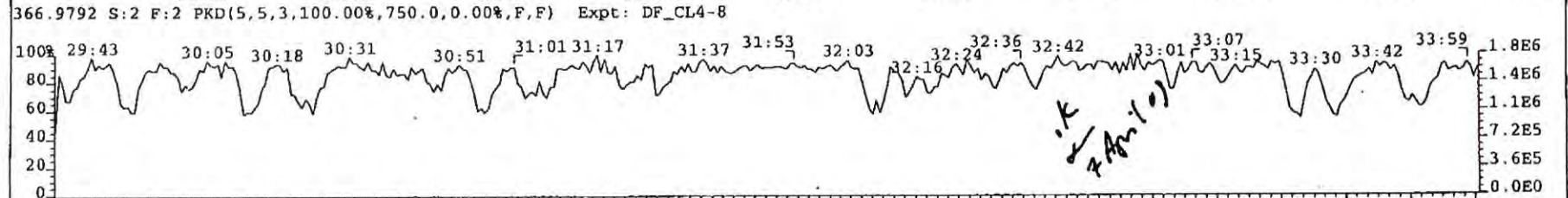
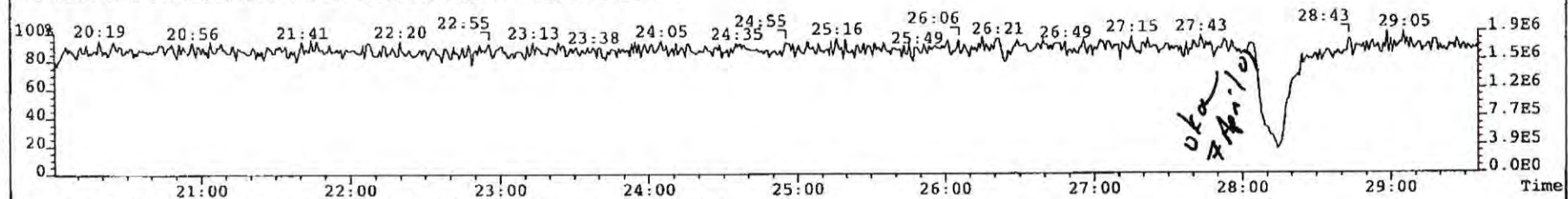


S:2 F:4 407.7818,423.7767 Expt: DF\_CL4-8

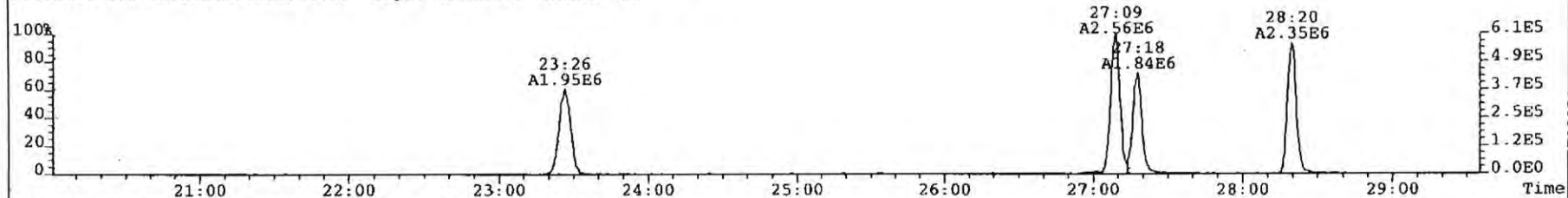




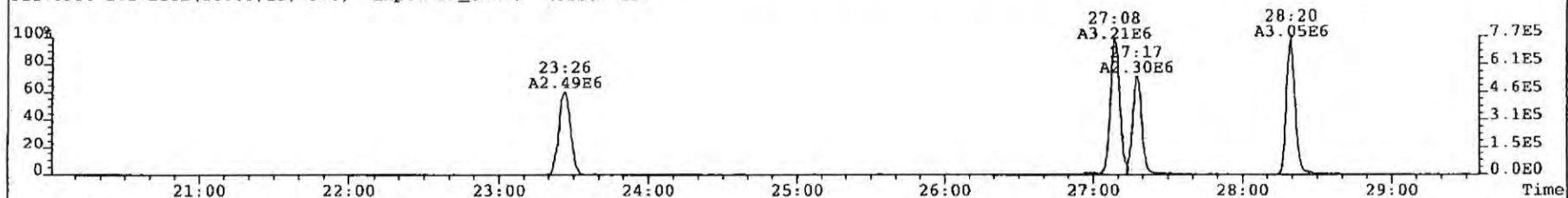
File: 090325P2 Acq: 25-MAR-2009 23:43:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: CPSM 0.6679\_OPR001 Vial# 17 File Text: AP DB5  
316.9824 S:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



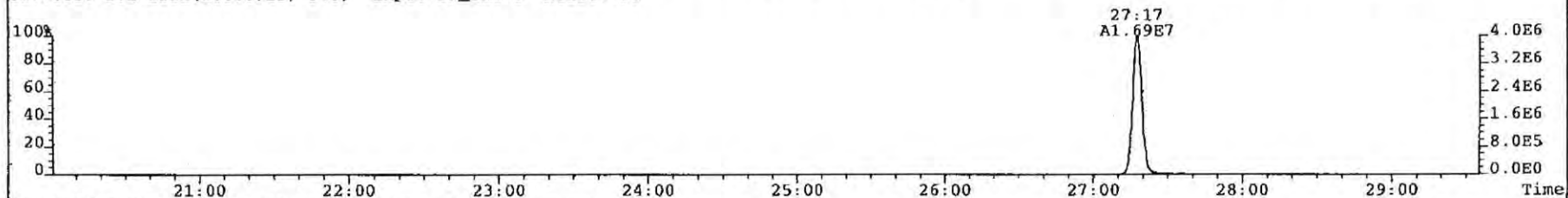
File: 090325P2 Acq: 25-MAR-2009 23:43:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: CPMS 0\_6679\_OPR001 Vial# 17 File Text: AP DB5  
319.8965 S:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 93



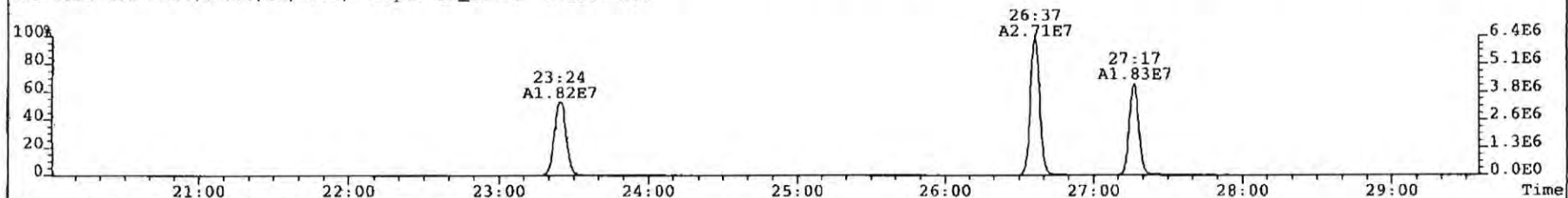
321.8936 S:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 127



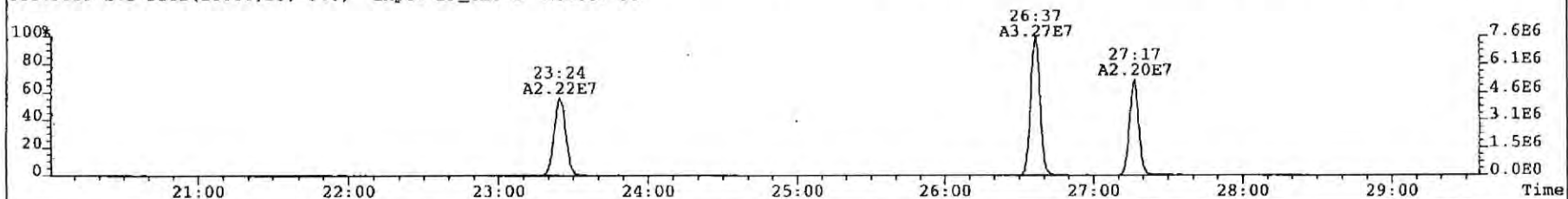
327.8850 S:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 90



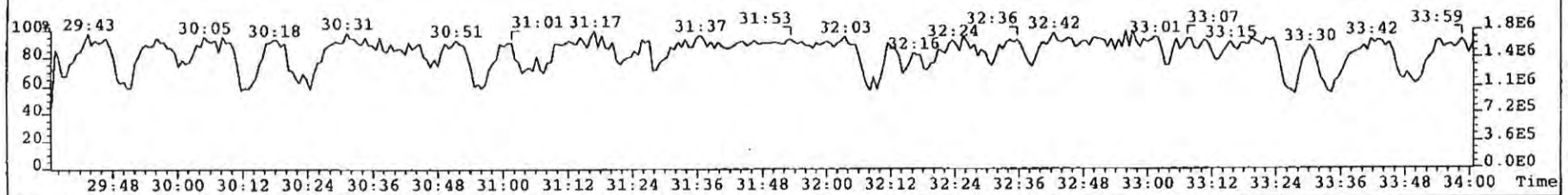
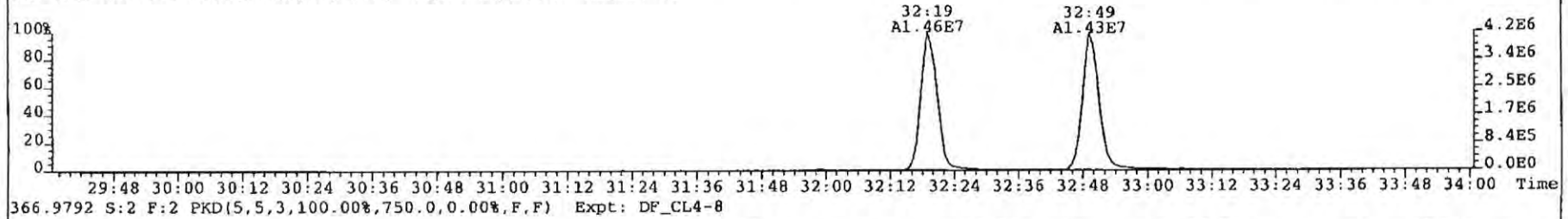
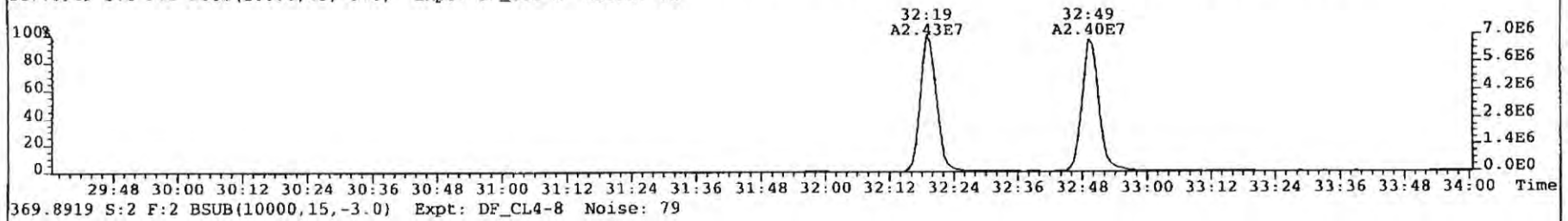
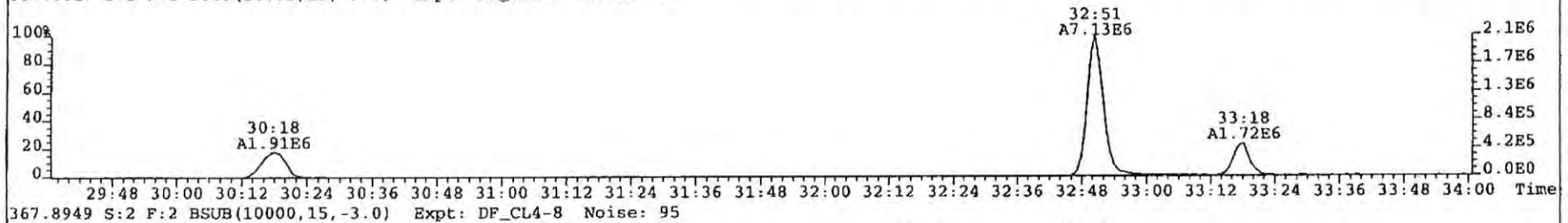
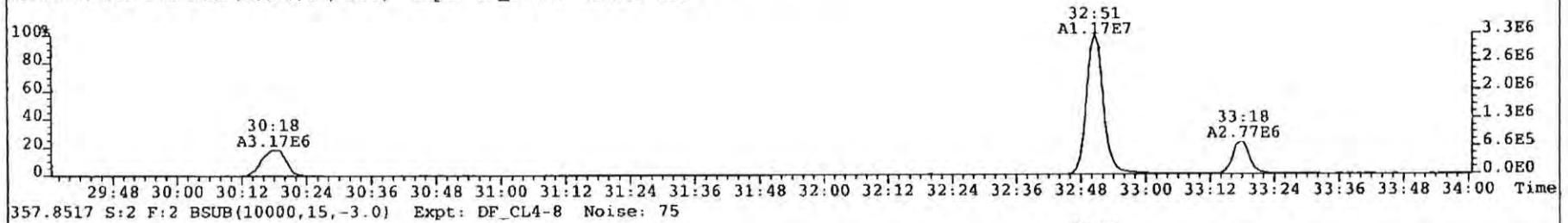
331.9368 S:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 108



333.9339 S:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 98

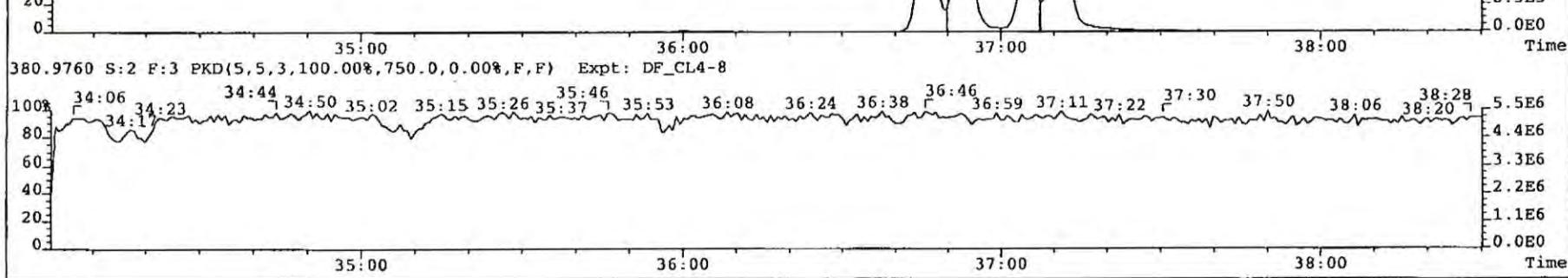
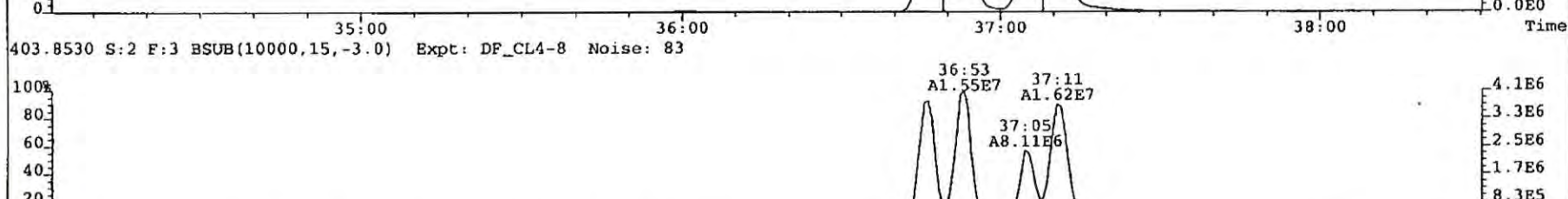
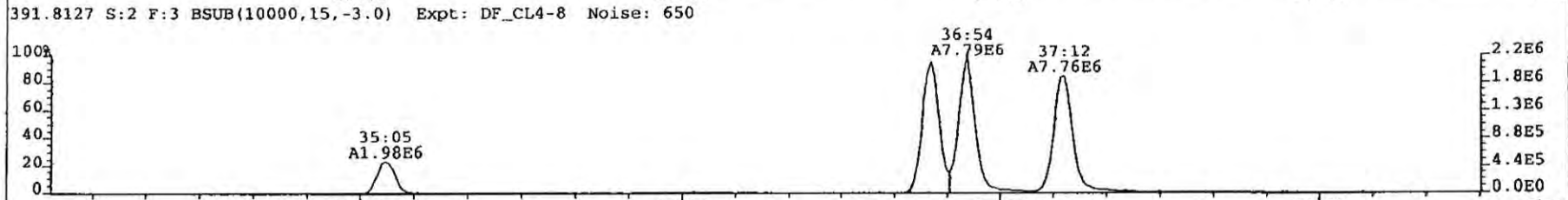
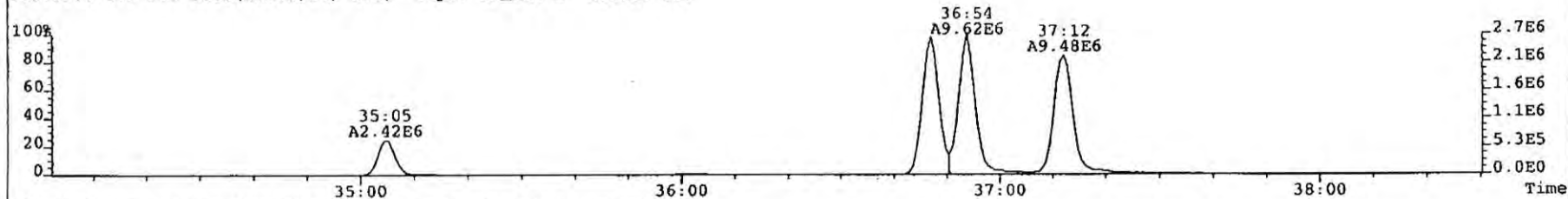


File: 090325P2 Acq: 25-MAR-2009 23:43:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: CPSM 0\_6679\_OPR001 Vial# 17 File Text: AP DB5  
355.8546 S:2 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 300

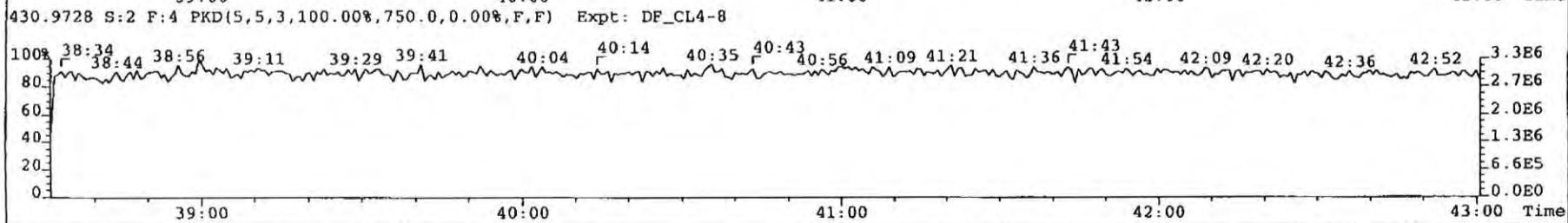
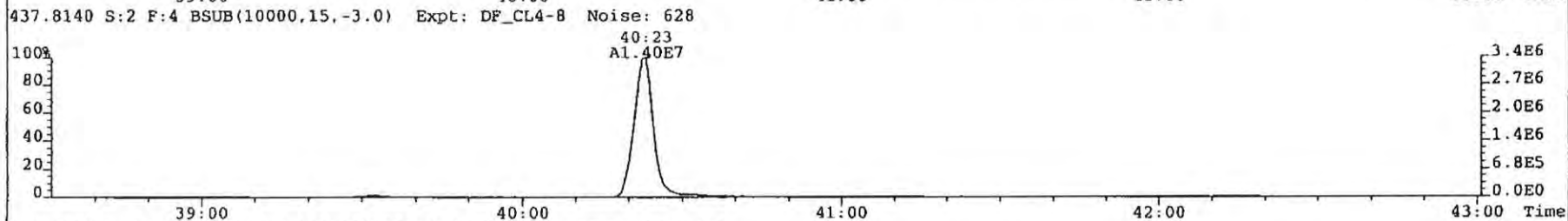
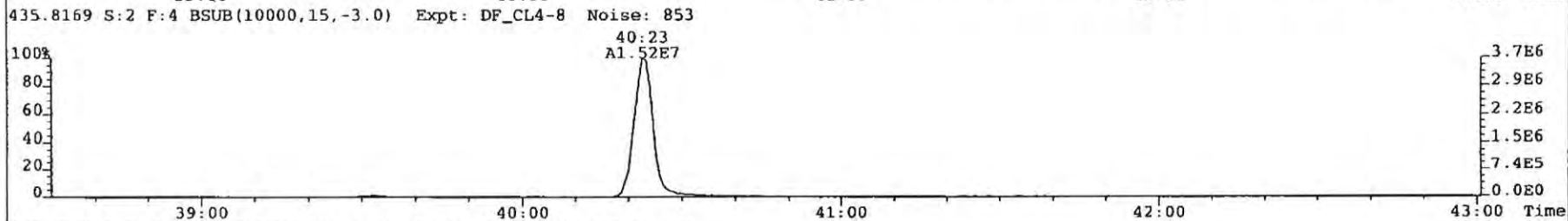
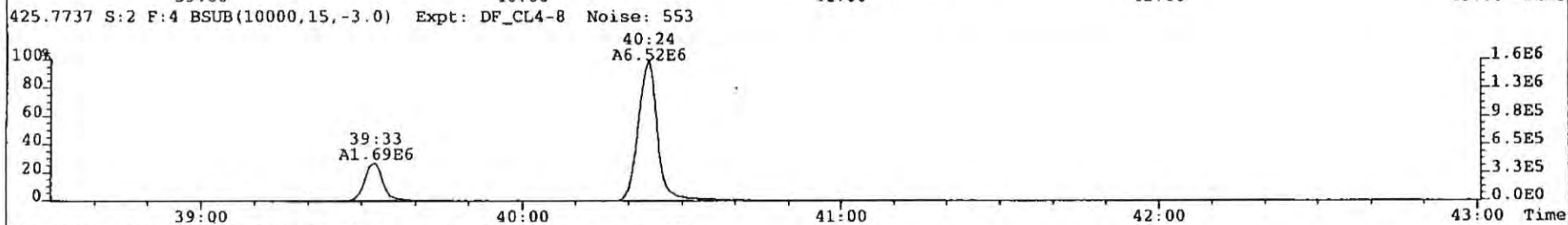
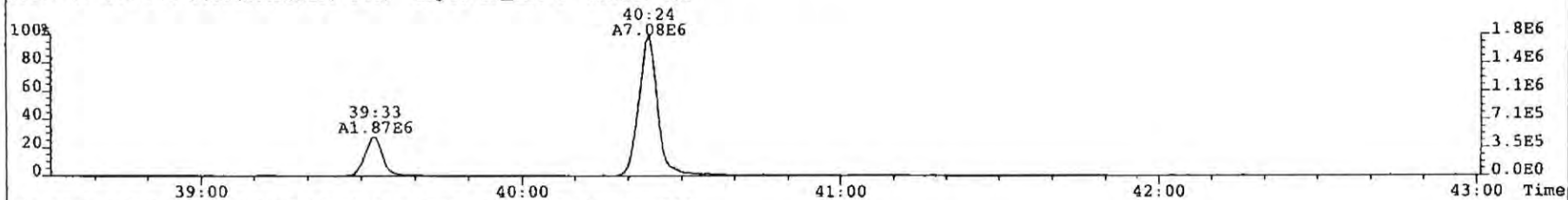




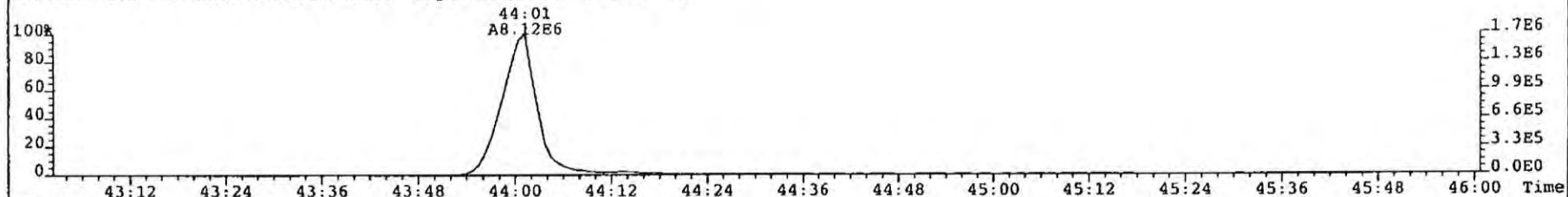
File: 090325P2 Acq: 25-MAR-2009 23:43:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: CPSM\_0\_6679\_OPR001 Vial# 17 File Text: AP DB5  
389.8156 S:2 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 827



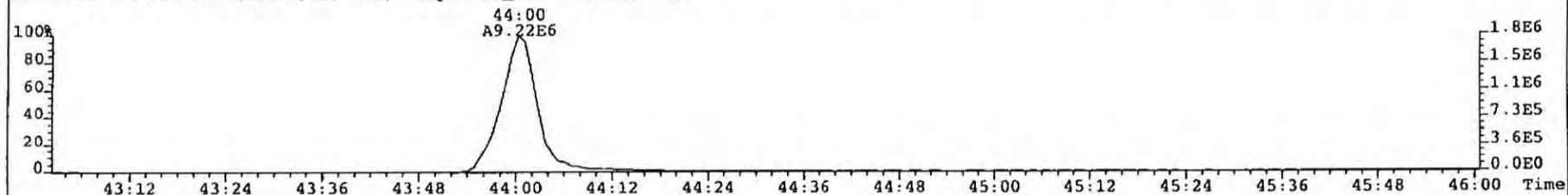
File: 090325P2 Acq: 25-MAR-2009 23:43:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: CPSM 0\_6679\_OPR001 Vial# 17 File Text: AP DB5  
423.7767 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 696



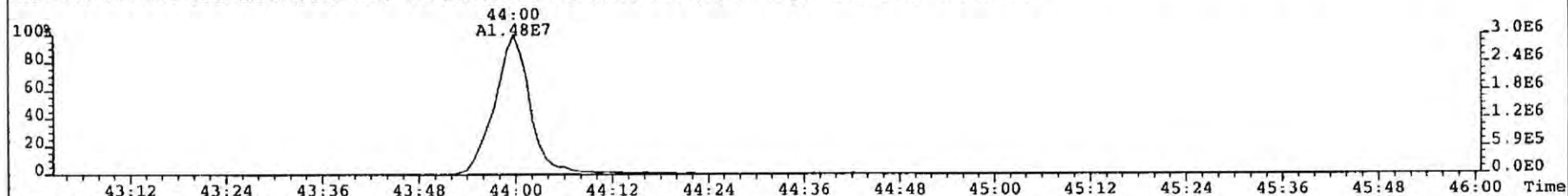
File: 090325P2 Acq: 25-MAR-2009 23:43:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: CPSM 0\_6679\_OPR001 Vial# 17 File Text: AP DB5  
457.7377 S:2 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 583



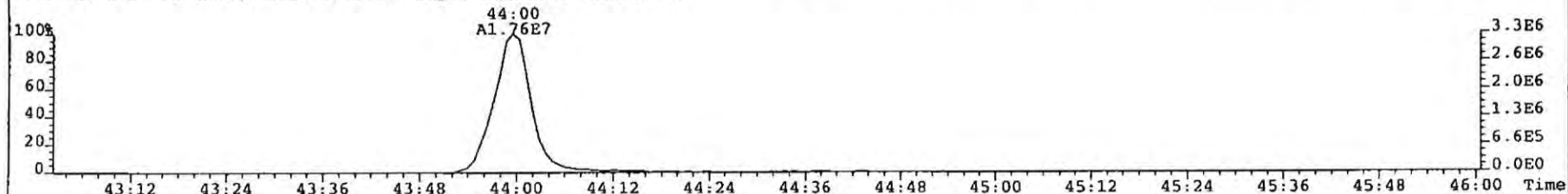
459.7348 S:2 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 586



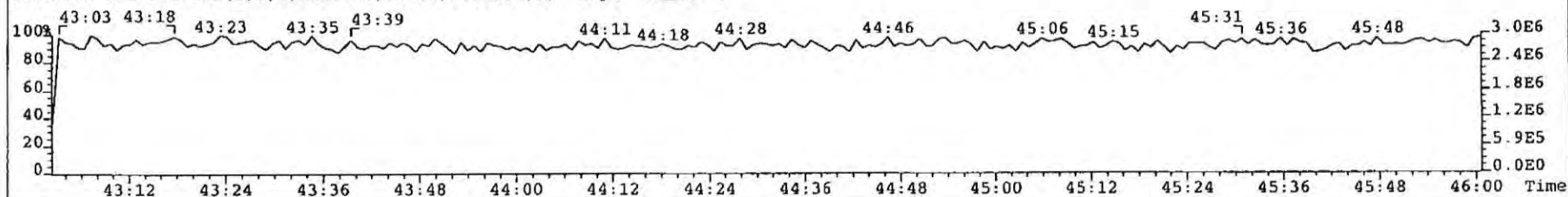
469.7780 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 89



471.7750 S:2 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 87

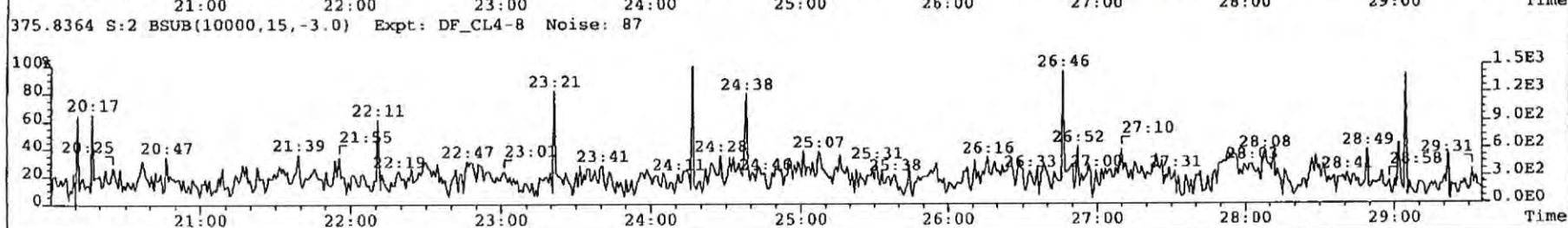
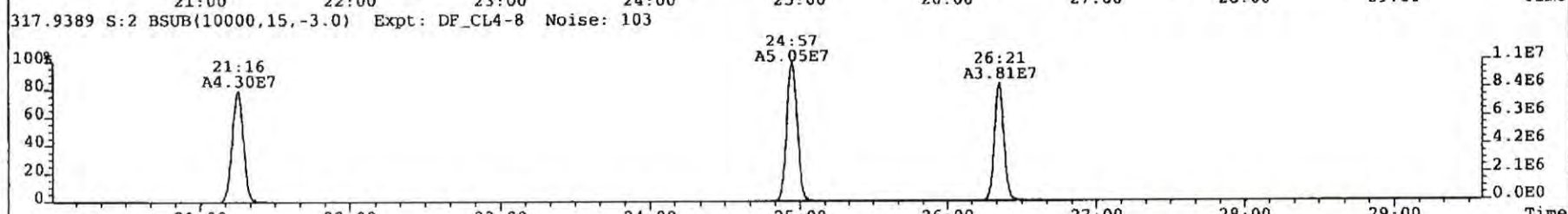
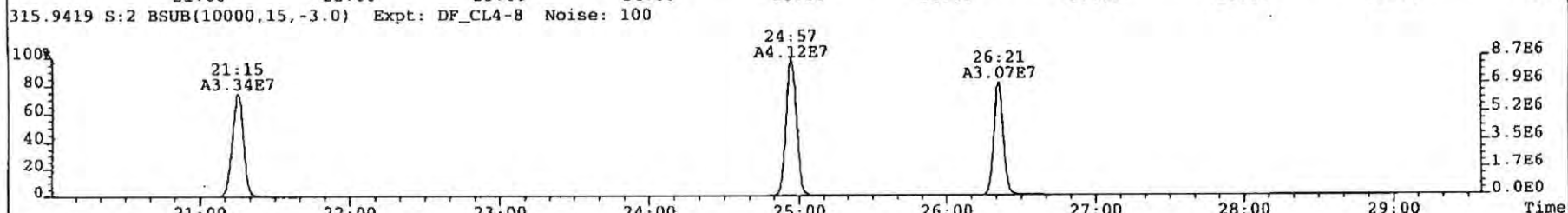
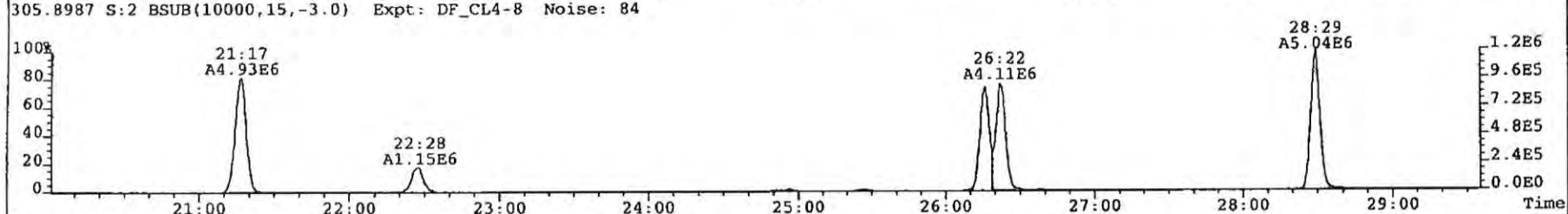
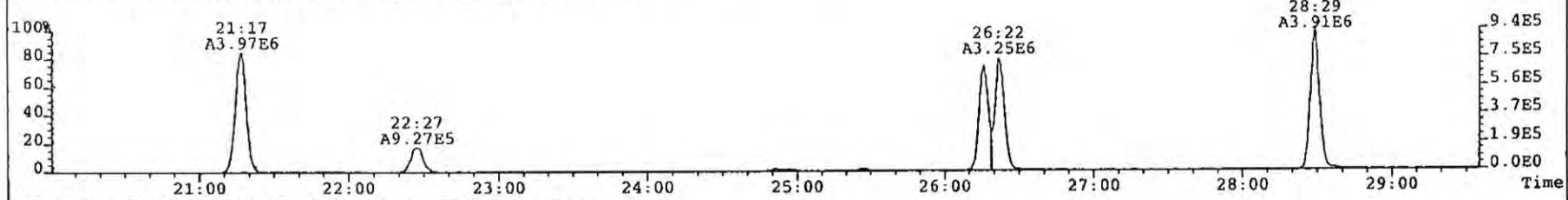


454.9728 S:2 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

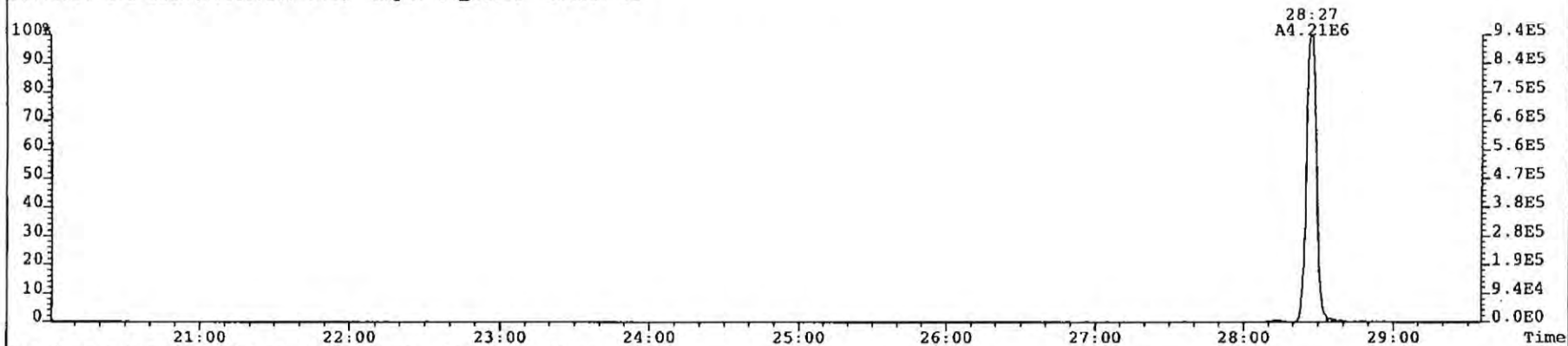




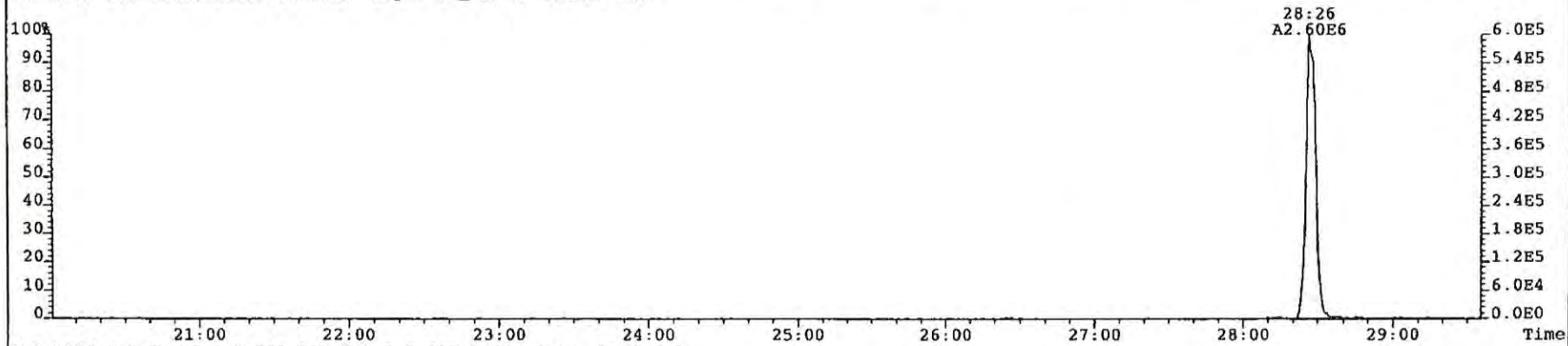
File: 090325P2 Acq: 25-MAR-2009 23:43:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: CPSM 0\_6679\_OPR001 Vial# 17 File Text: AP DB5  
303.9016 S:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 94



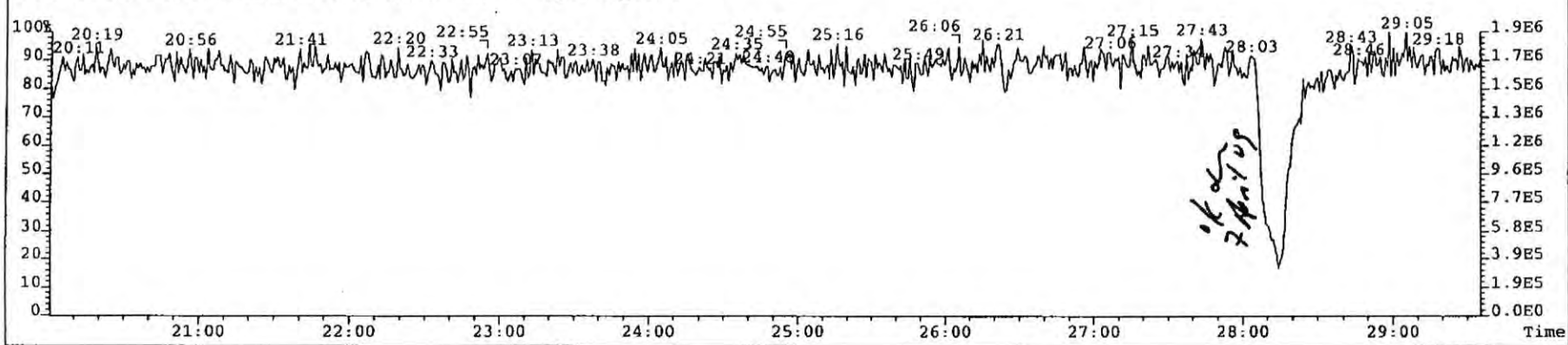
File: 090325P2 Acq: 25-MAR-2009 23:43:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: CP5M 0\_6679\_OPR001 Vial# 17 File Text: AP DB5  
339.8597 S:2 BSub(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 91



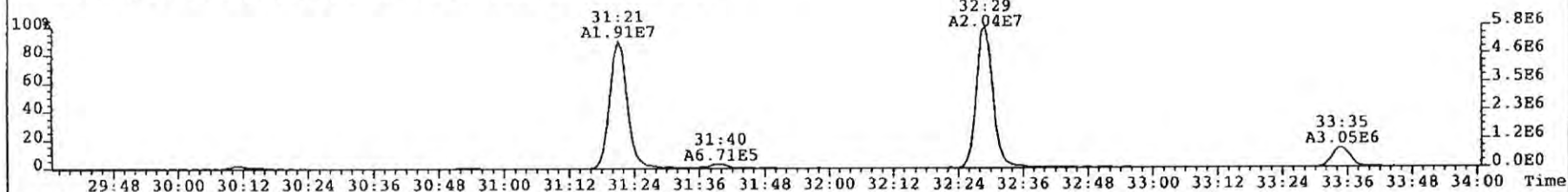
341.8568 S:2 BSub(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 102



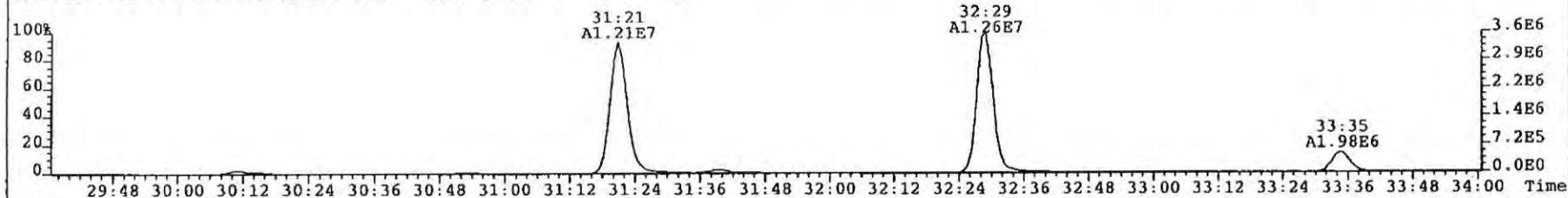
316.9824 S:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



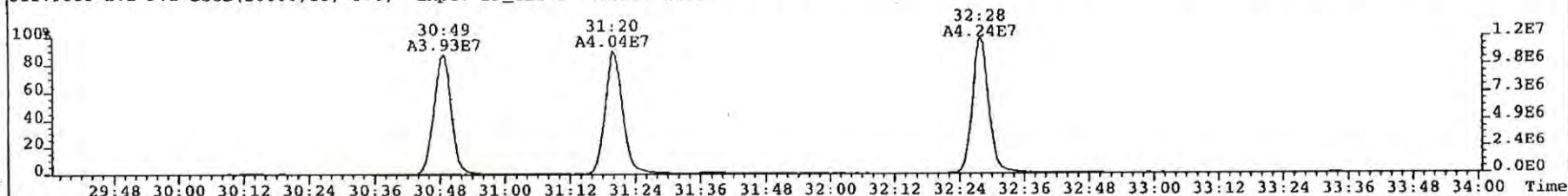
File: 090325P2 Acq: 25-MAR-2009 23:43:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: CPSM 0\_6679\_OPR001 Vial# 17 File Text: AP DB5  
339.8597 S:2 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1401



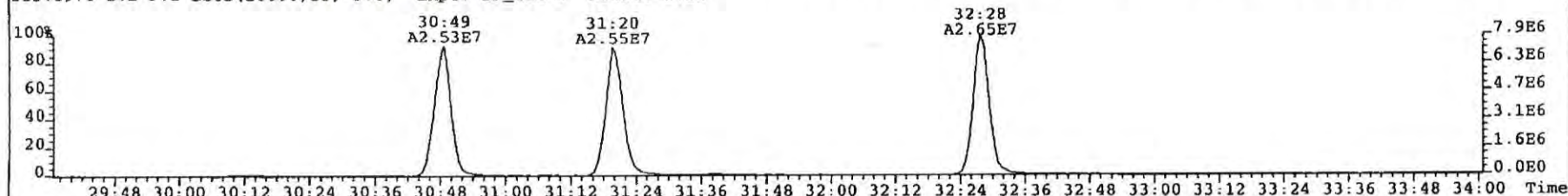
341.8568 S:2 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 835



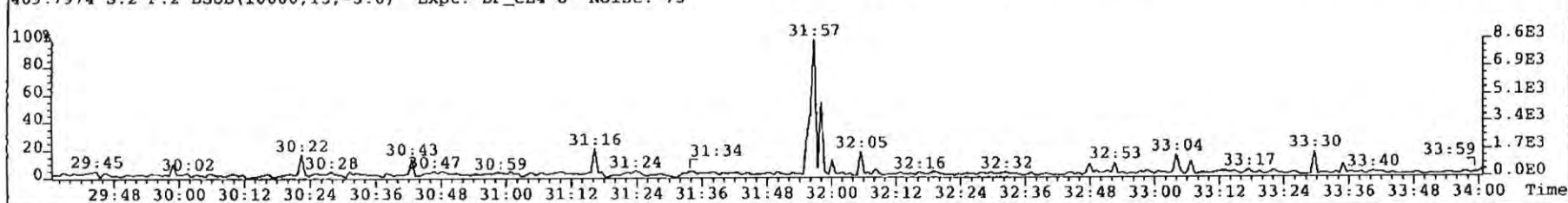
351.9000 S:2 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 2643



353.8970 S:2 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1722



409.7974 S:2 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 73

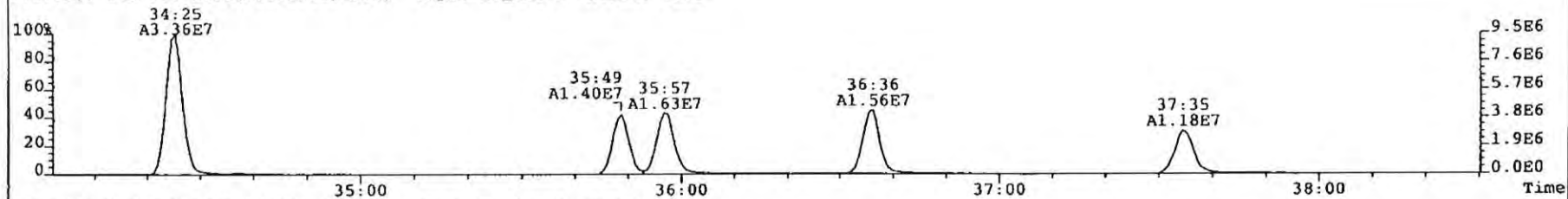




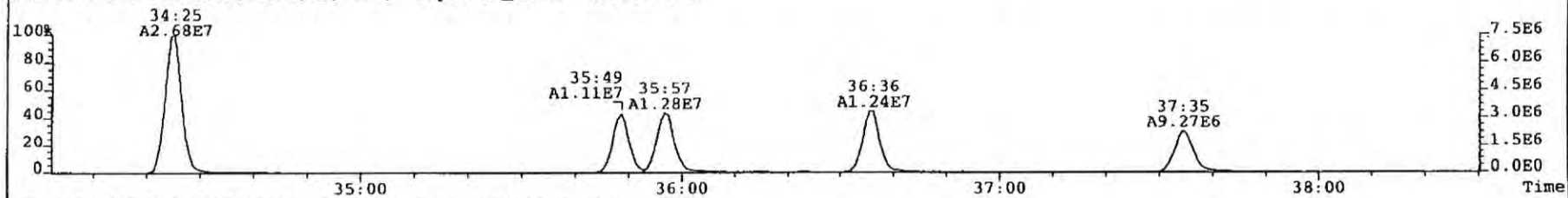
File: 090325P2 Acq: 25-MAR-2009 23:43:27 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 2 Text: CPSM 0\_6679\_OPR001 Vial# 17 File Text: AP DB5

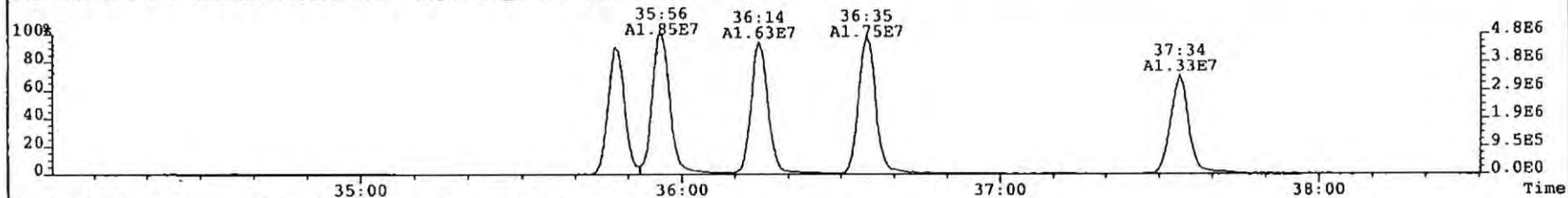
373.8207 S:2 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 2251



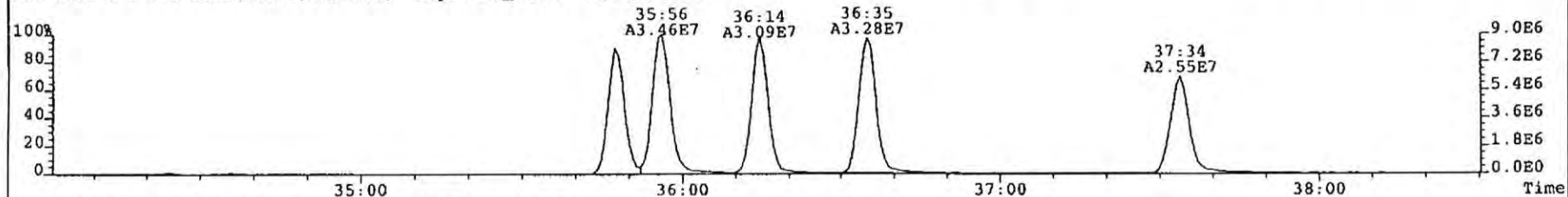
375.8178 S:2 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1786



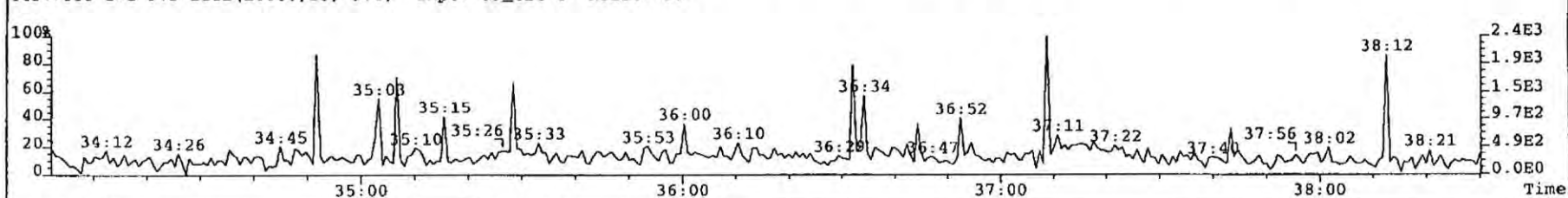
383.8639 S:2 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 754



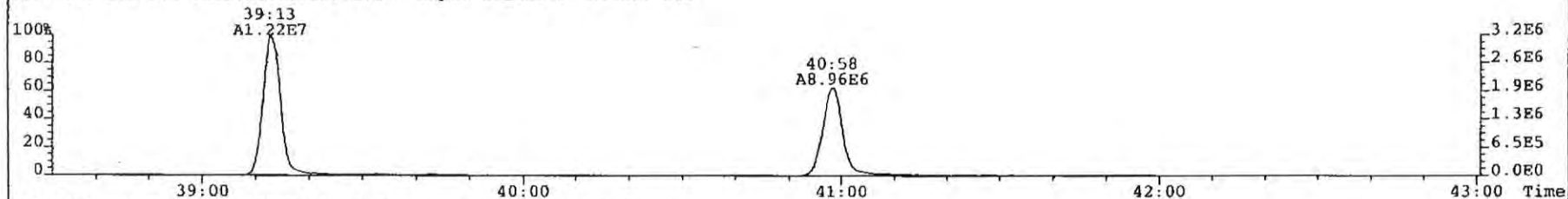
385.8610 S:2 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 2723



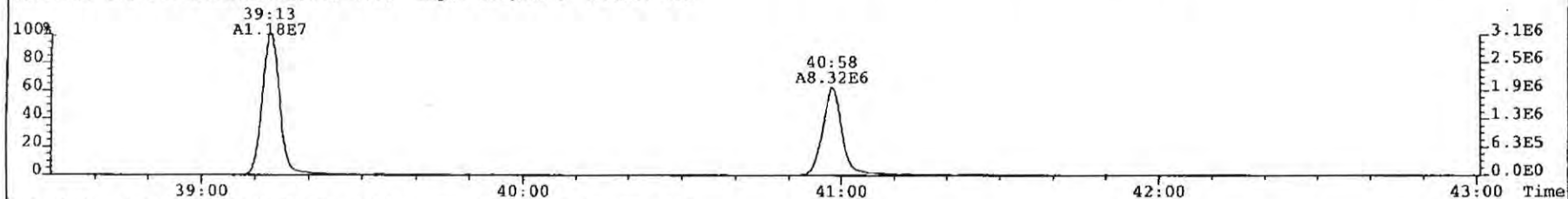
445.7555 S:2 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 95



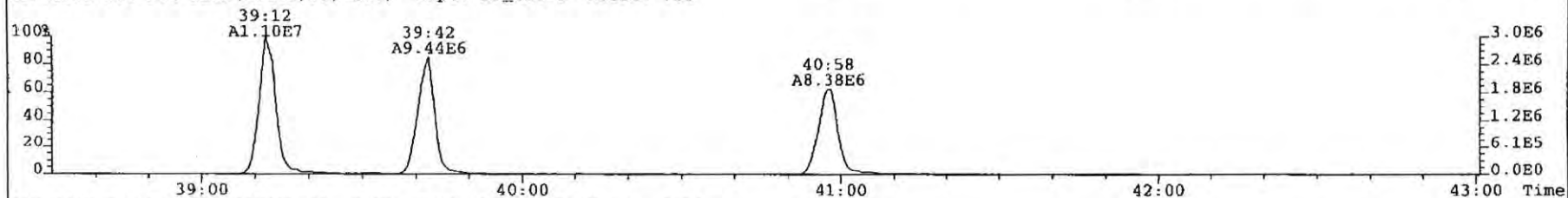
File: 090325P2 Acq: 25-MAR-2009 23:43:27 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 2 Text: CPSM 0\_6679\_OPR001 Vial# 17 File Text: AP DB5  
407.7818 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 568



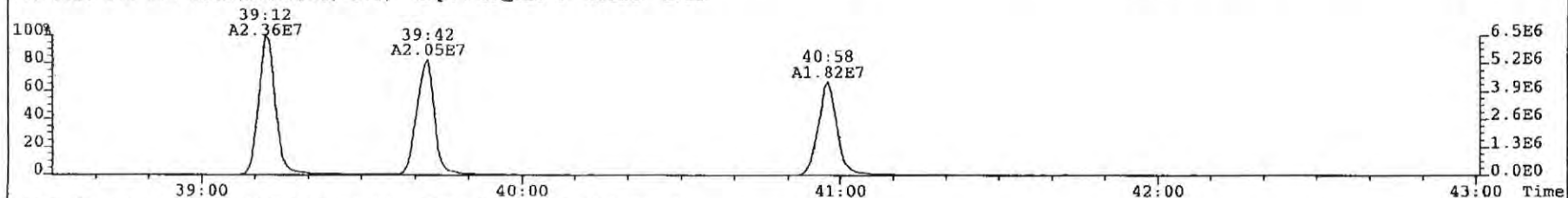
409.7788 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 792



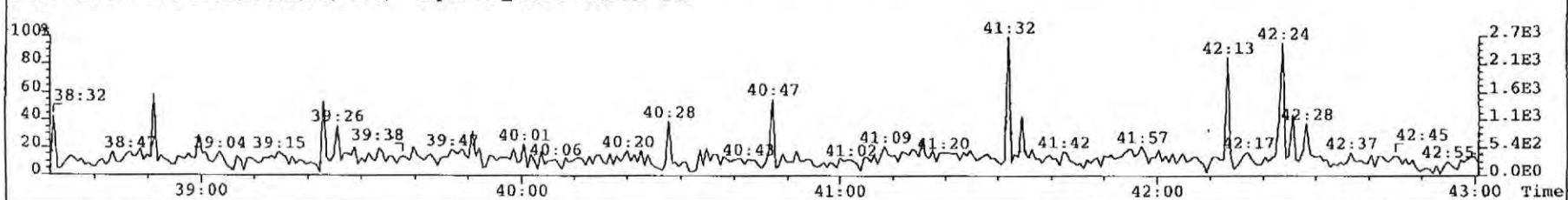
417.8253 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 735



419.8220 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 1751



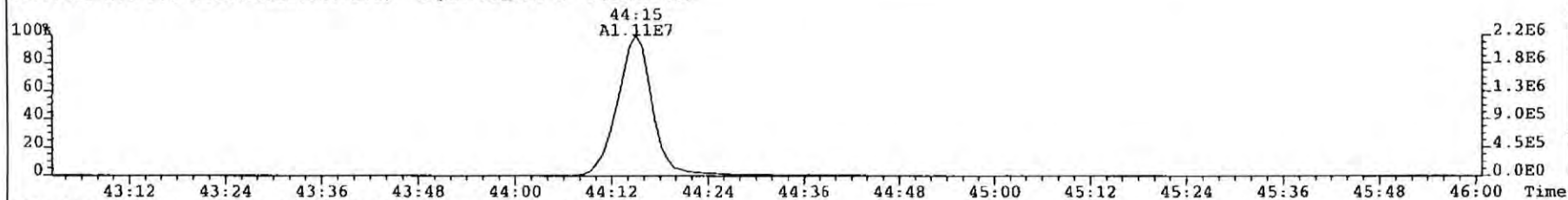
479.7165 S:2 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 103



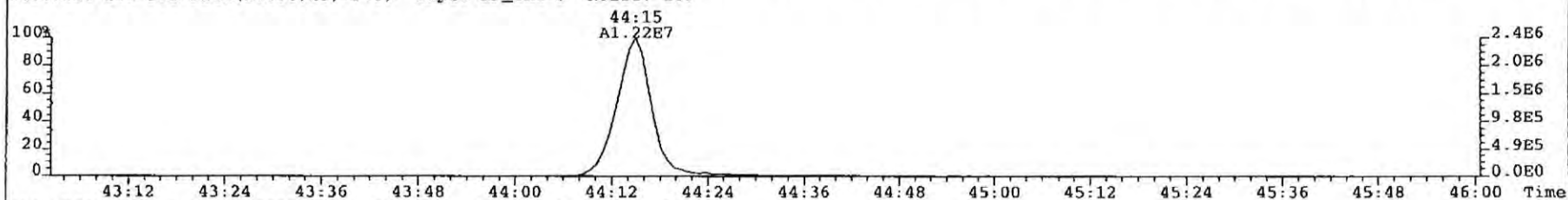
File: 090325P2 Acq: 25-MAR-2009 23:43:27 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 2 Text: CPSM 0\_6679\_OPR001 Vial# 17 File Text: AP DB5

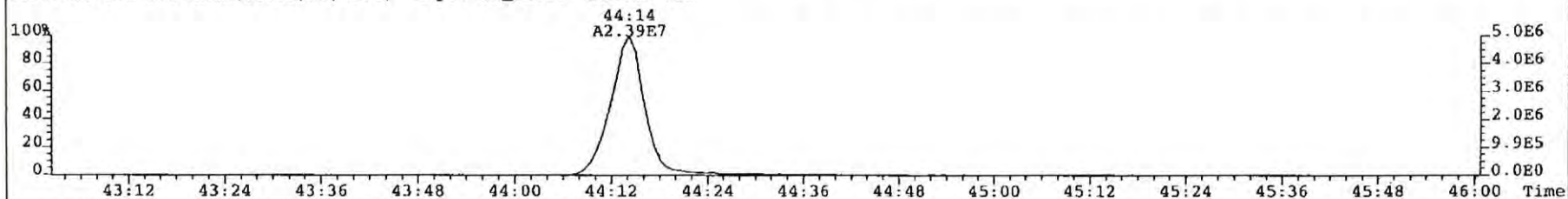
441.7428 S:2 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 189



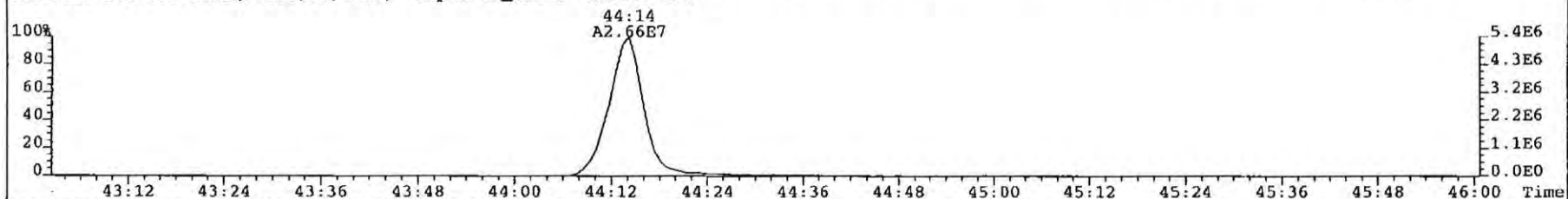
443.7398 S:2 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 169



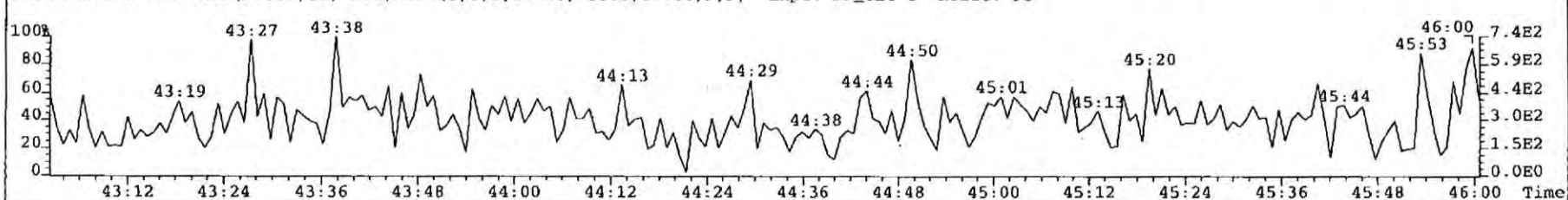
453.7830 S:2 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 782



455.7801 S:2 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 395

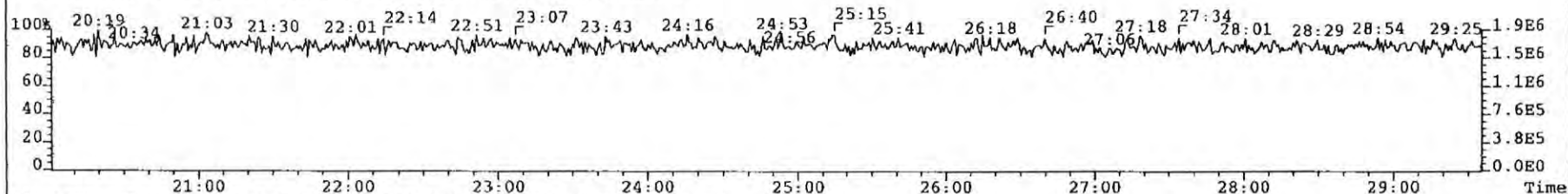


513.6775 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 95

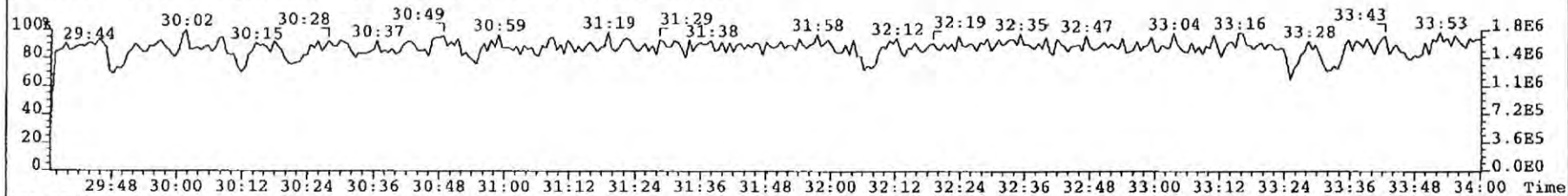




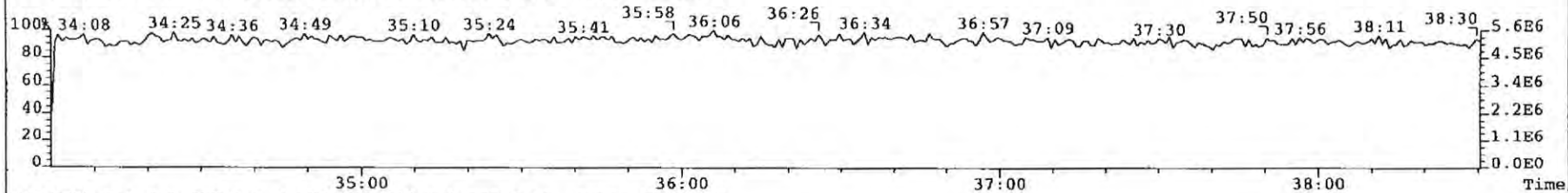
File: 090325P2 Acq: 26-MAR-2009 00:33:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5  
316.9824 S:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



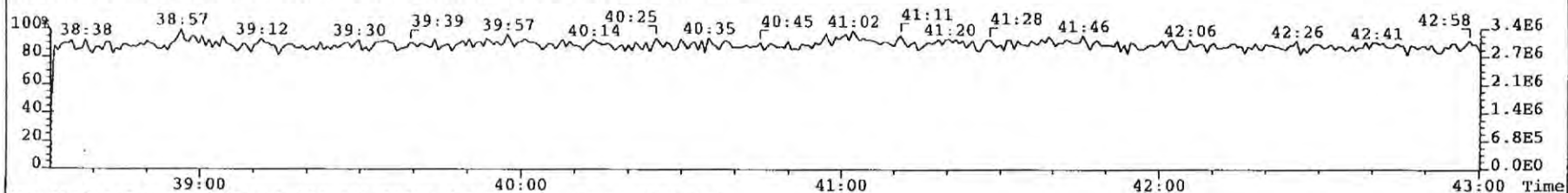
366.9792 S:3 F:2 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



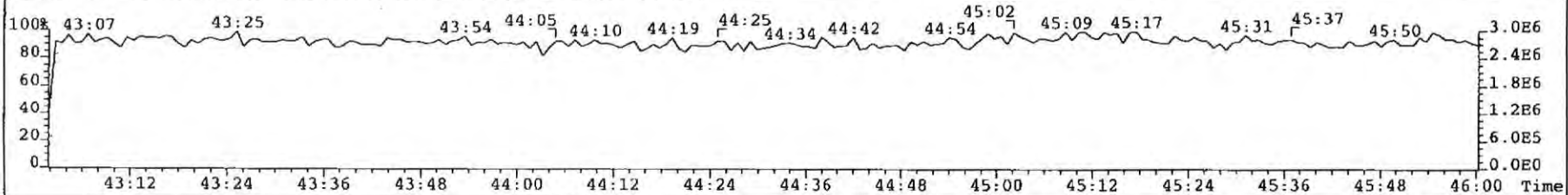
380.9760 S:3 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



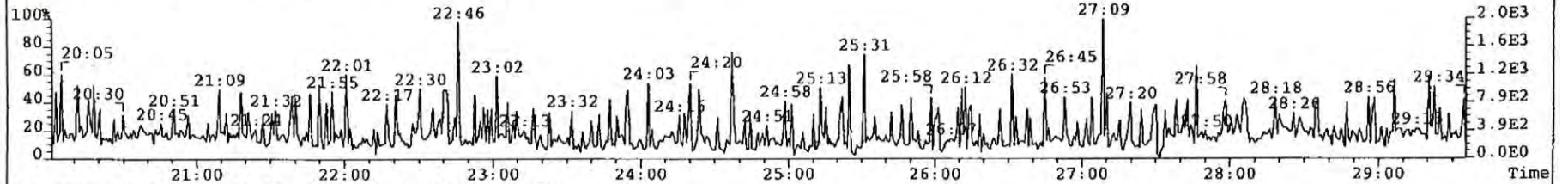
430.9728 S:3 F:4 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



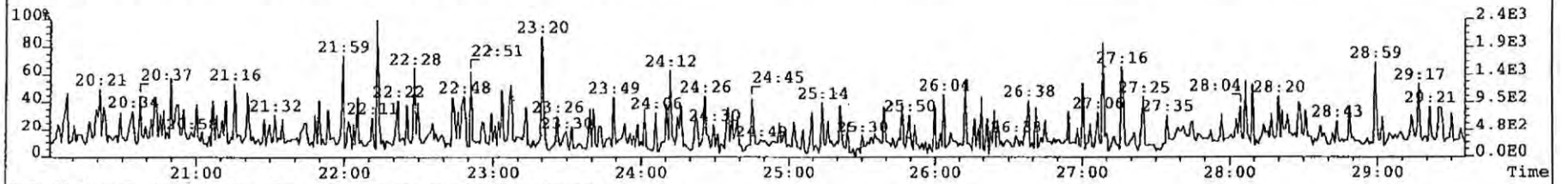
454.9728 S:3 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



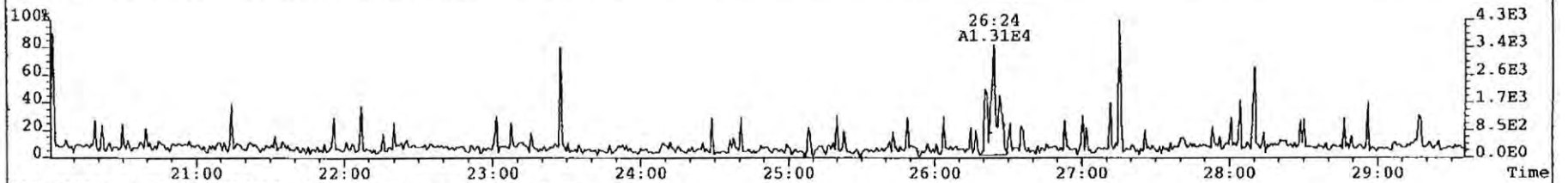
File: 090325P2 Acq: 26-MAR-2009 00:33:33 GC EI+ Voltage STR Autospec-UltimaE  
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5  
319.8965 S:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 88



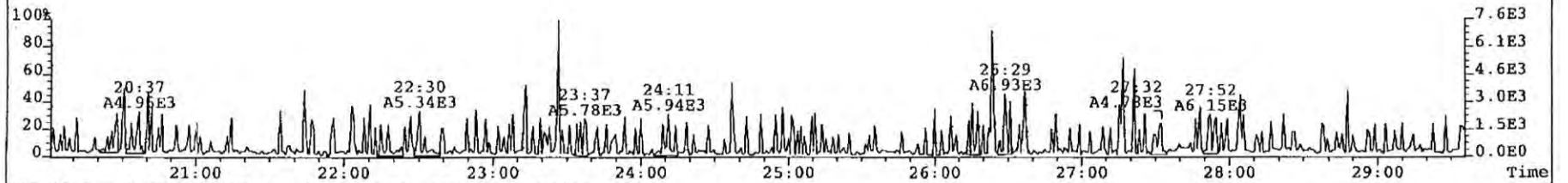
321.8936 S:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 83



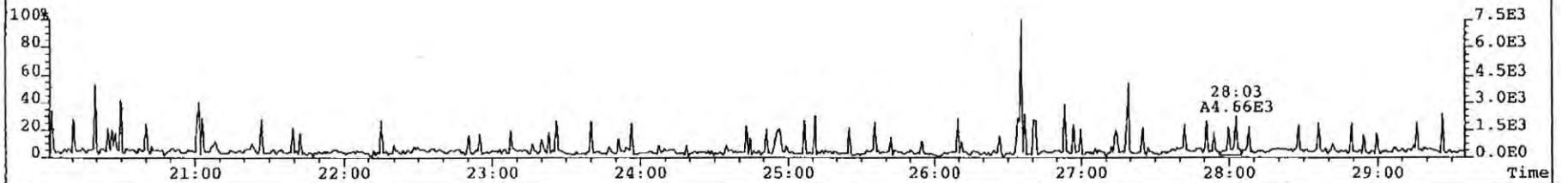
327.8850 S:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 96



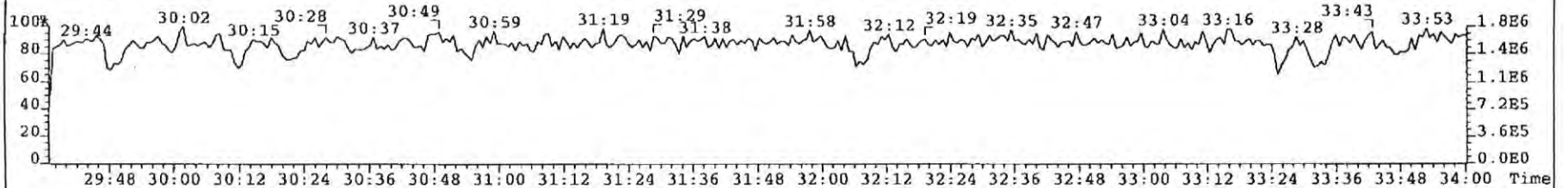
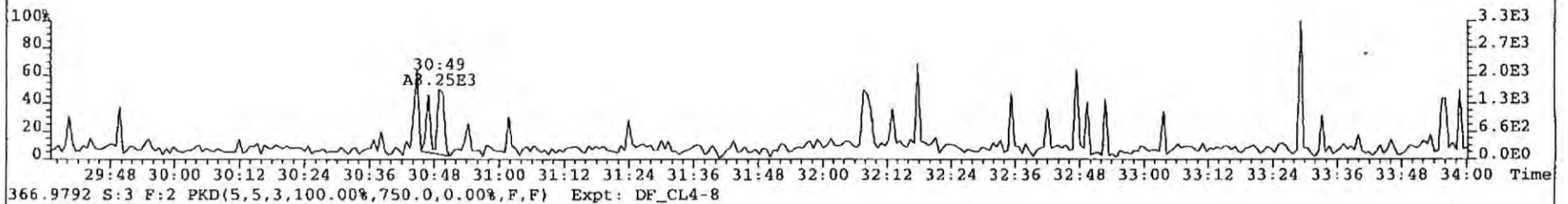
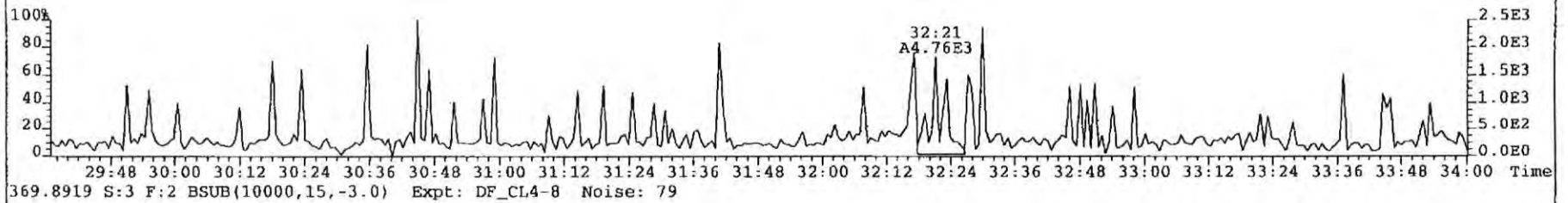
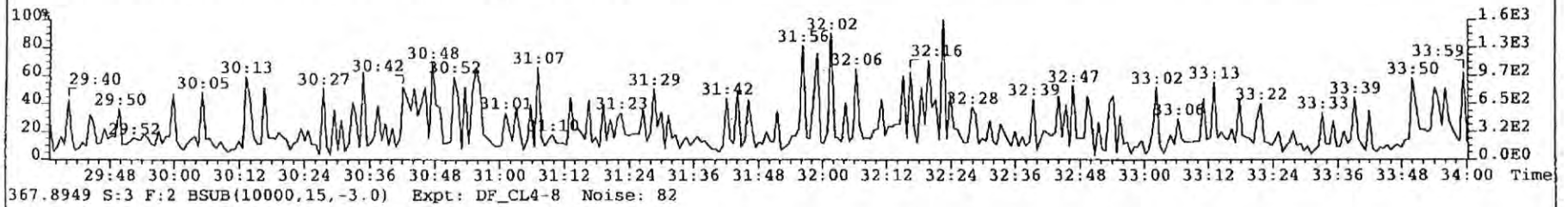
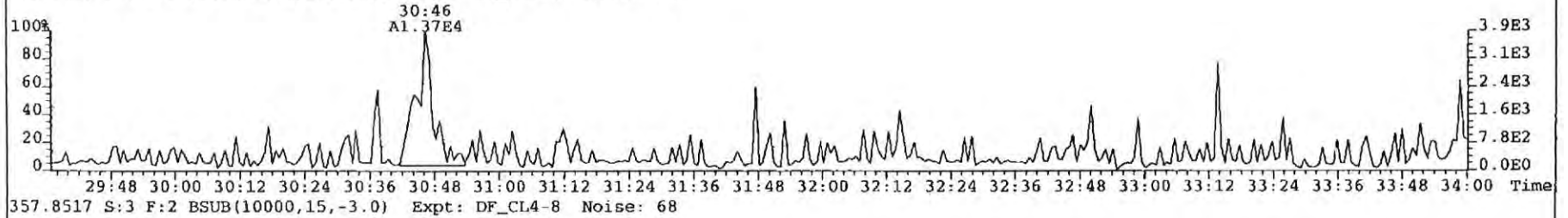
331.9368 S:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 94



333.9339 S:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 100

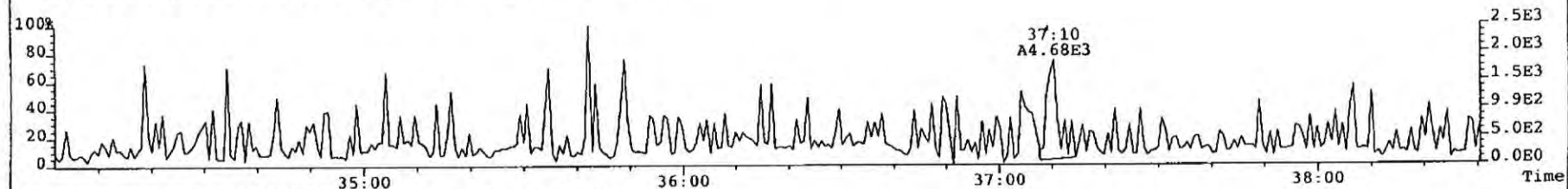


File: 090325P2 Acq: 26-MAR-2009 00:33:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5  
355.8546 S:3 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 72

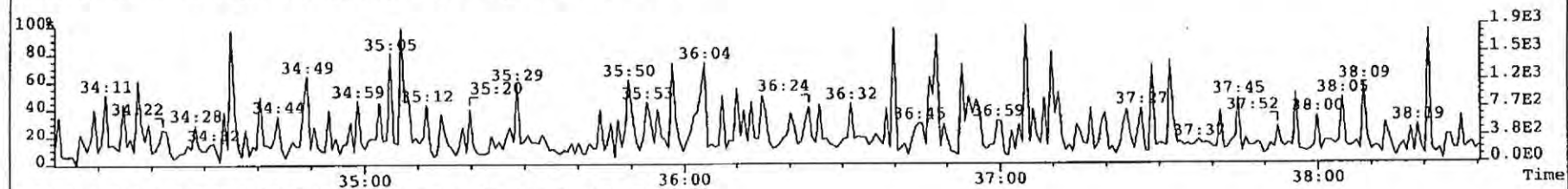




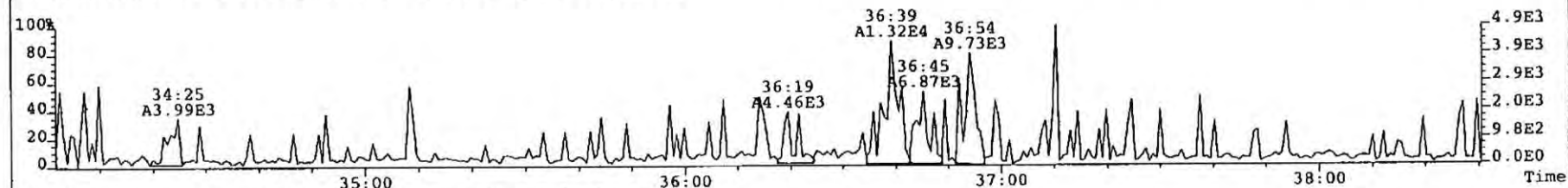
File: 090325P2 Acq: 26-MAR-2009 00:33:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5  
389.8156 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 88



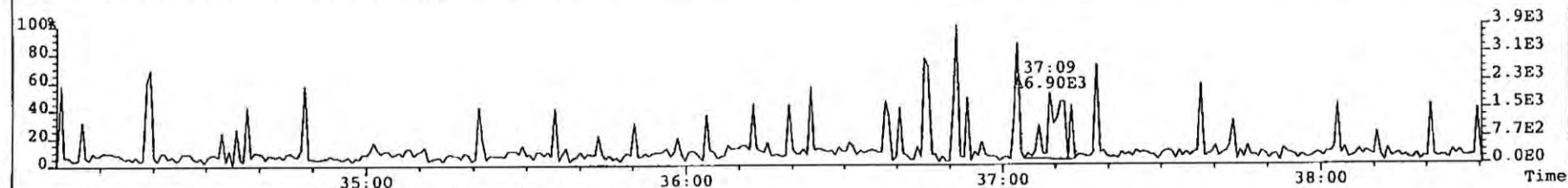
391.8127 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 79



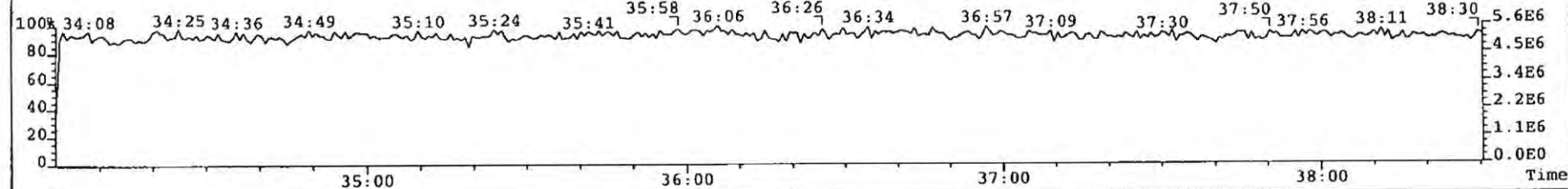
401.8559 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 83



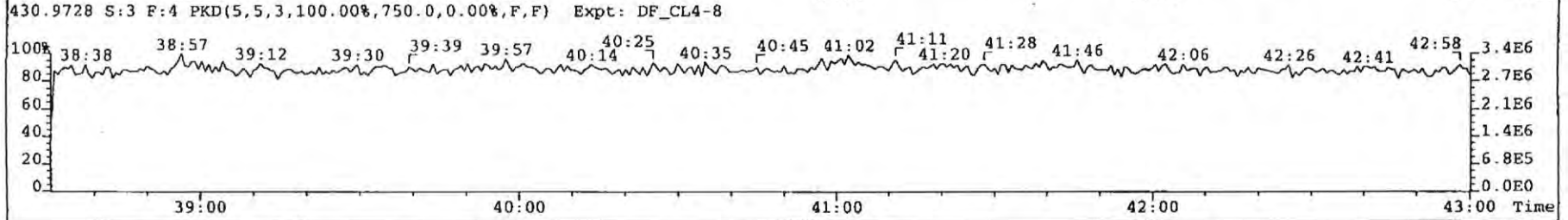
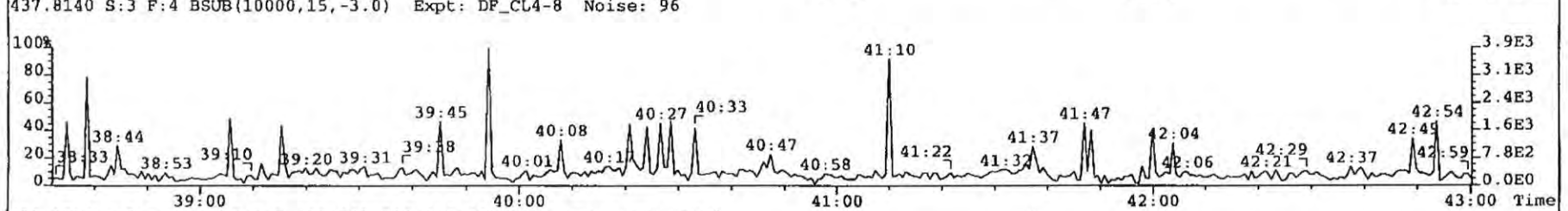
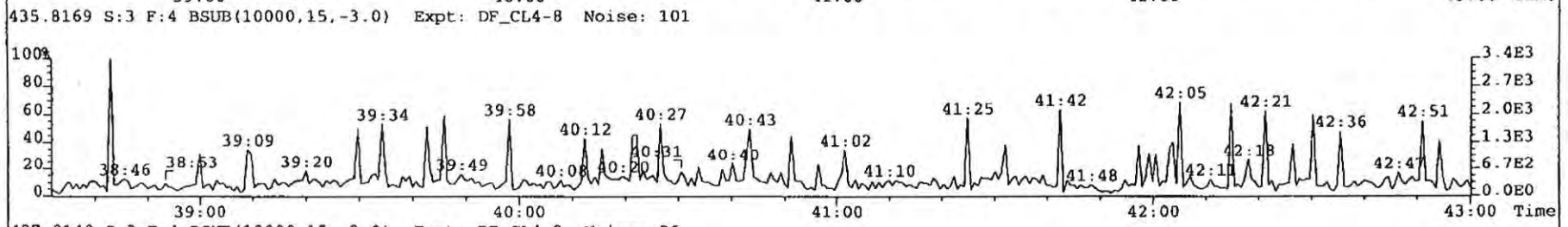
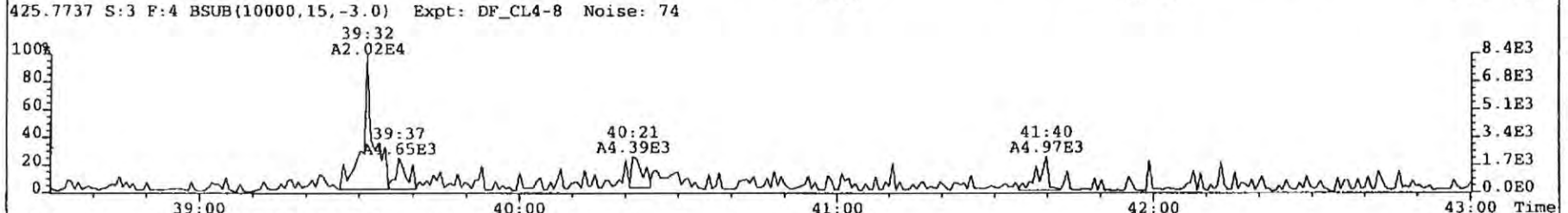
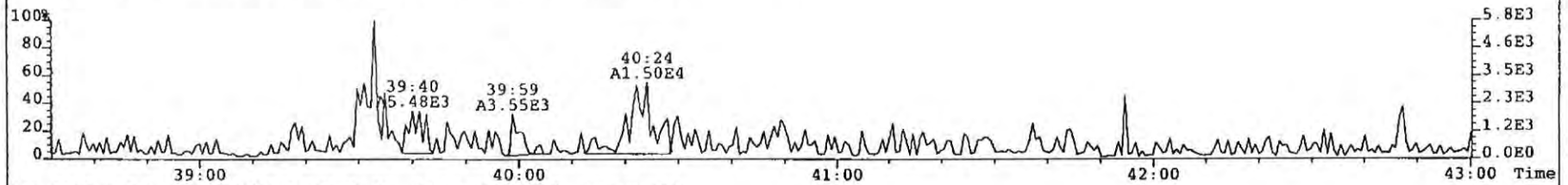
403.8530 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 88



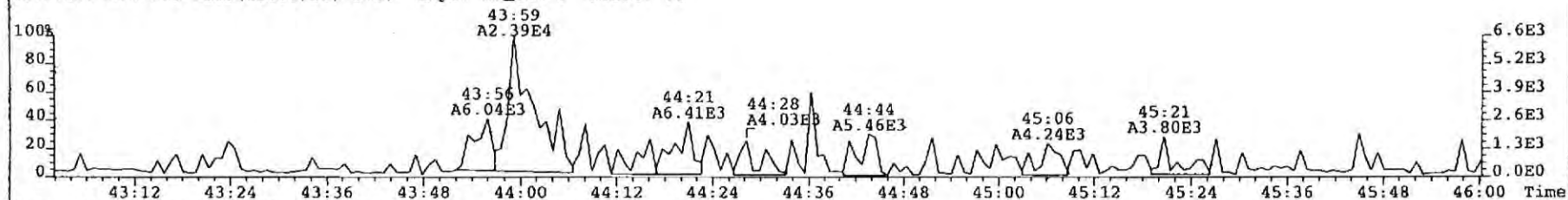
380.9760 S:3 F:3 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8



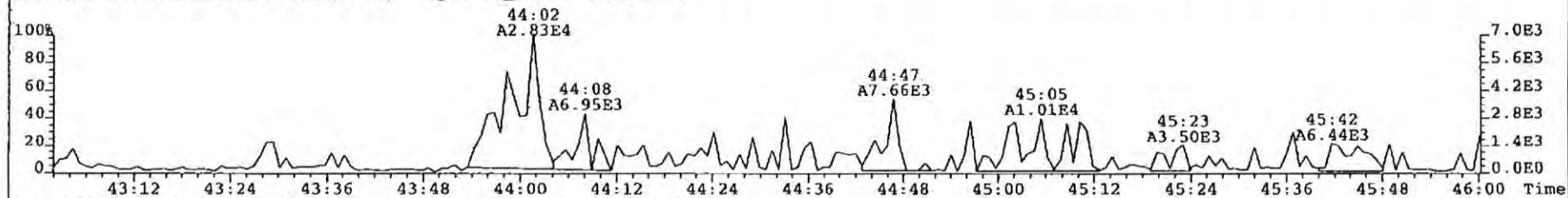
File: 090325P2 Acq: 26-MAR-2009 00:33:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5  
423.7767 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 83



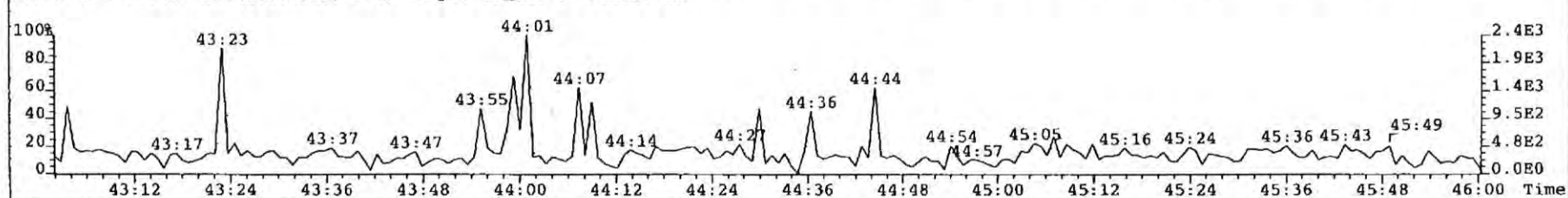
File: 090325P2 Acq: 26-MAR-2009 00:33:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5  
457.7377 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 83



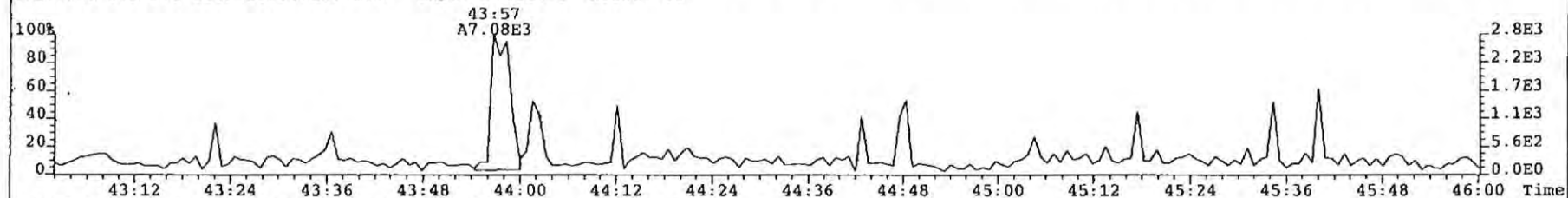
459.7348 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 73



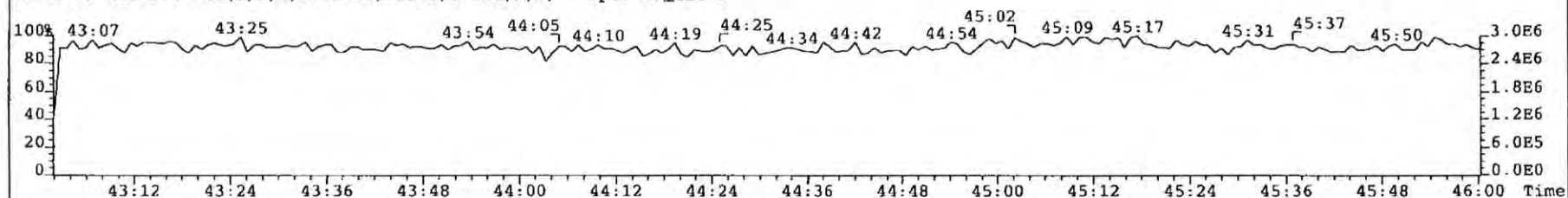
469.7780 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 102



471.7750 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 85

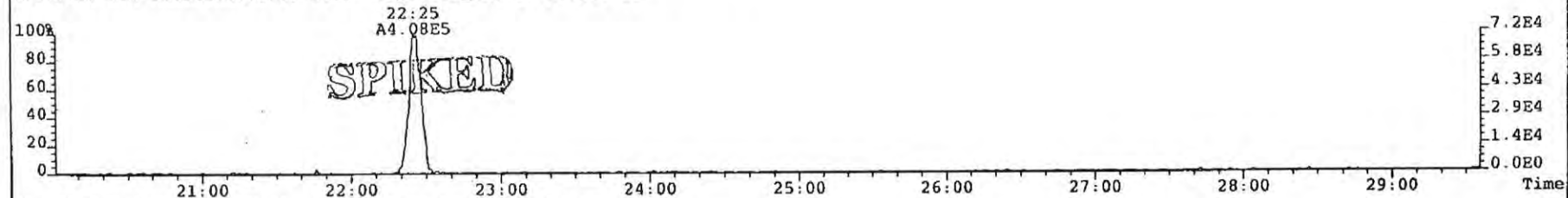


454.9728 S:3 F:5 PKD(5,5,3,100.00%,750.0,0.00%,F,F) Expt: DF\_CL4-8

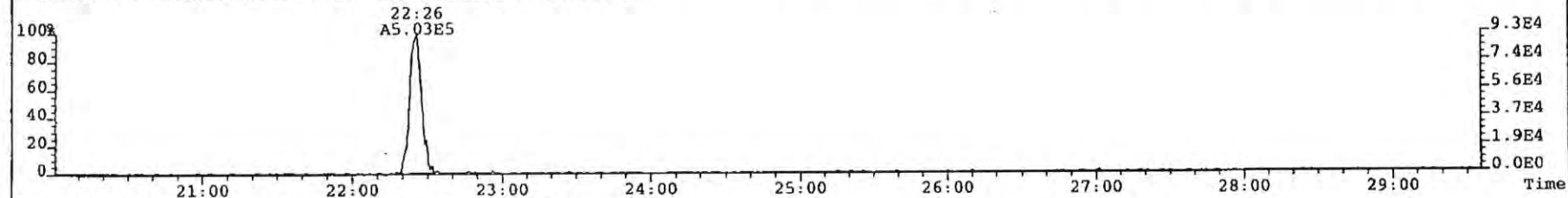




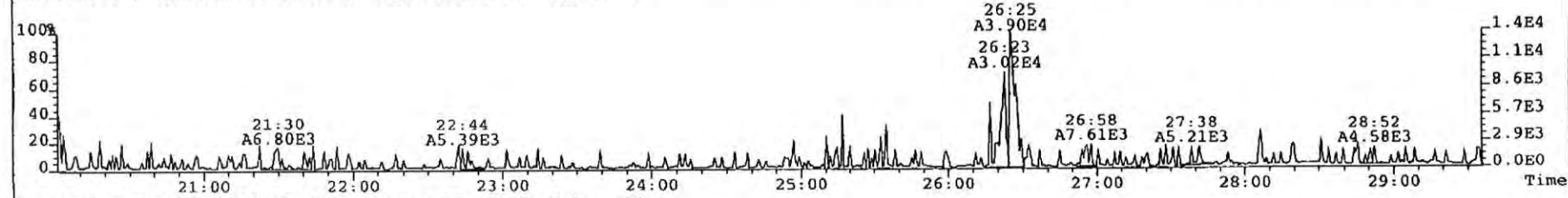
File: 090325P2 Acq: 26-MAR-2009 00:33:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5  
303.9016 S:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 85



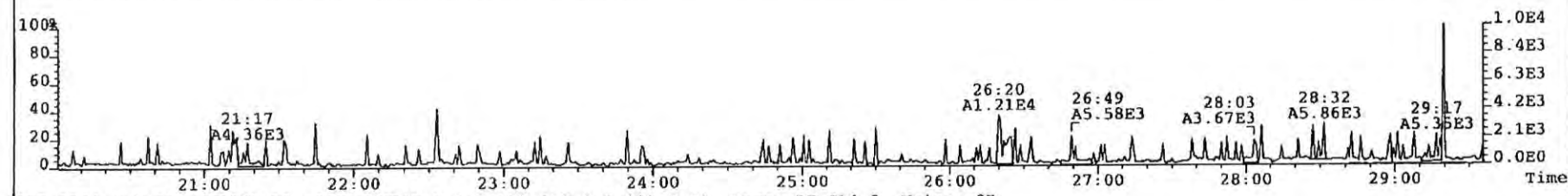
305.8987 S:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 84



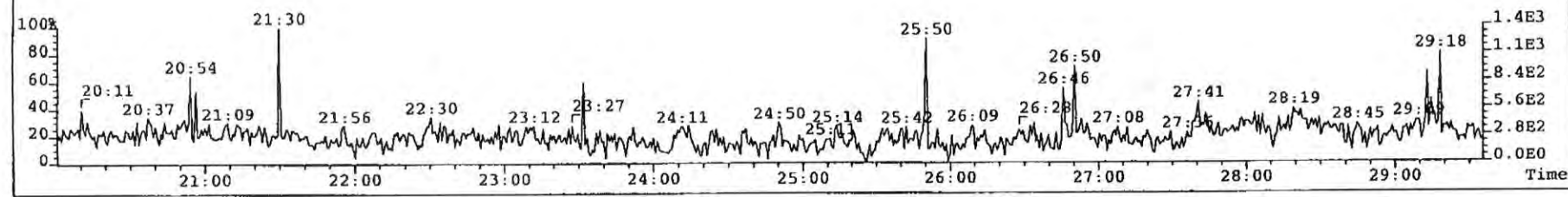
315.9419 S:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 94



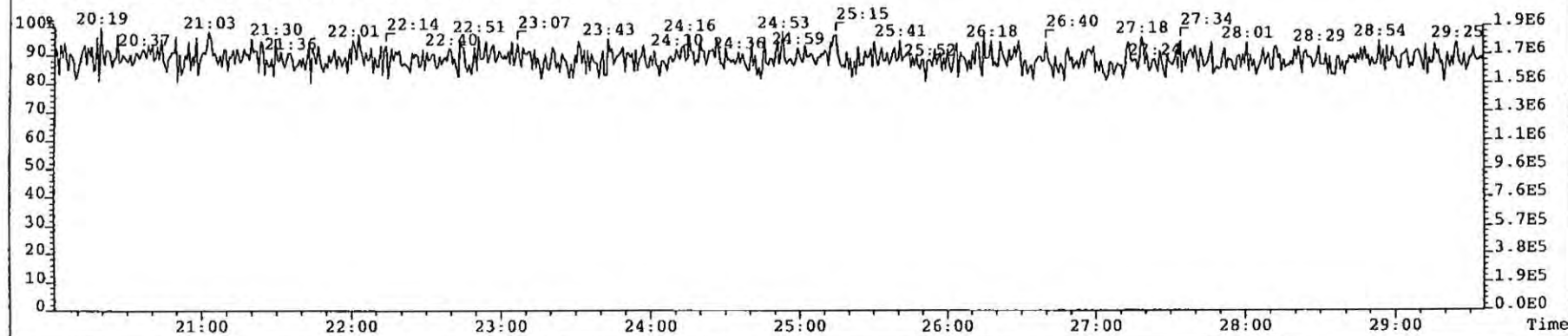
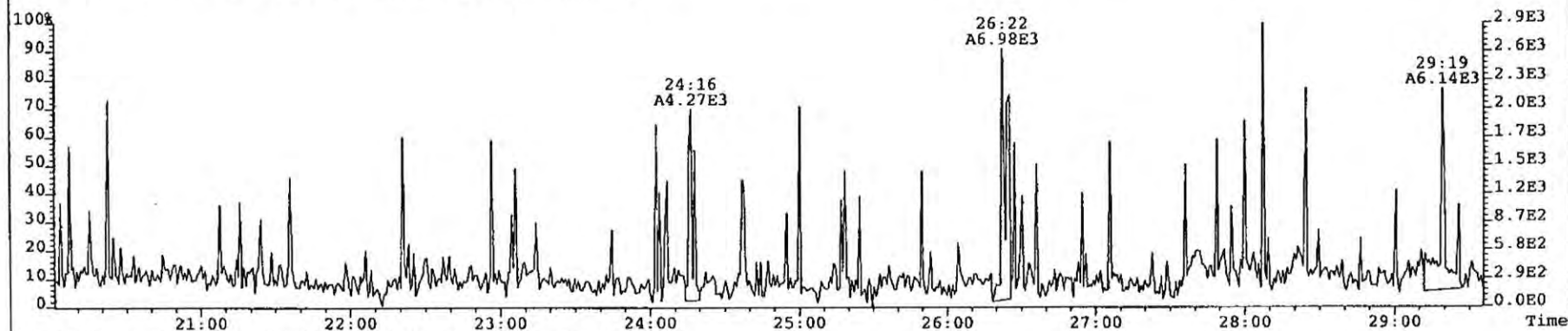
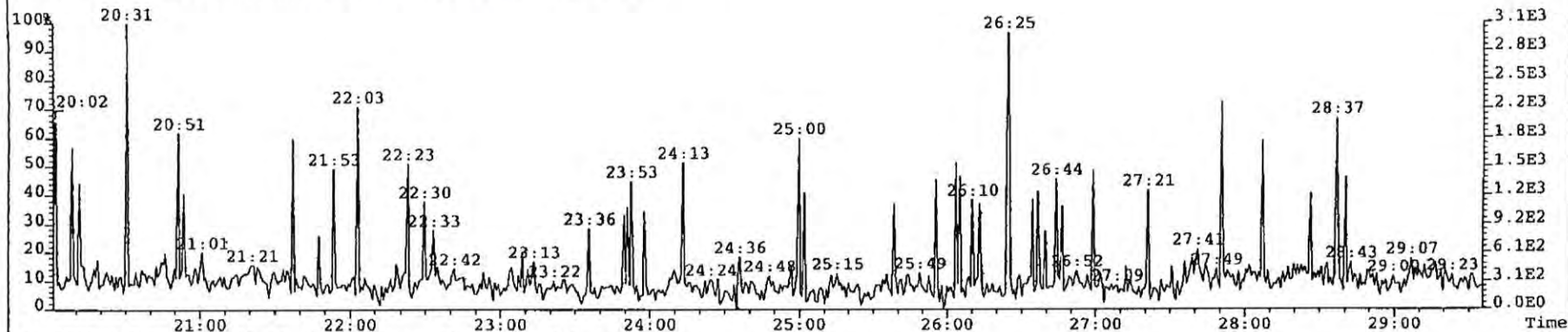
317.9389 S:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 94



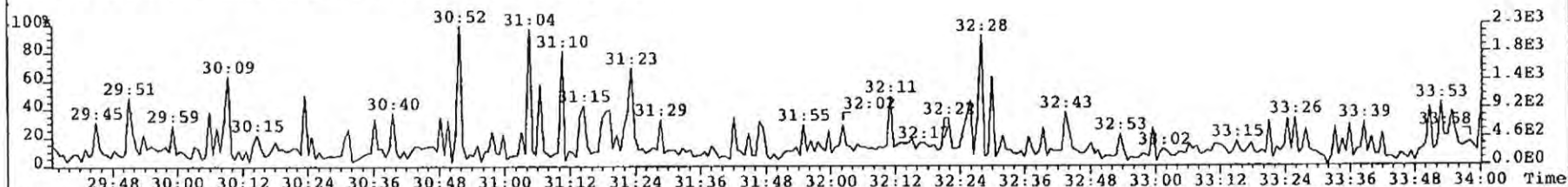
375.8364 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 87



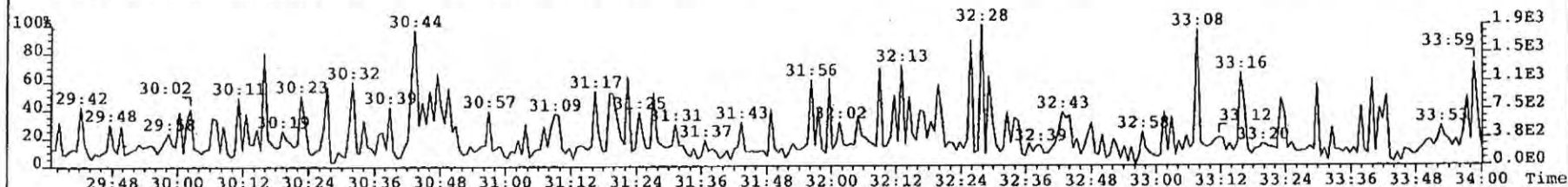
File: 090325P2 Acq: 26-MAR-2009 00:33:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5  
339.8597 S:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 88



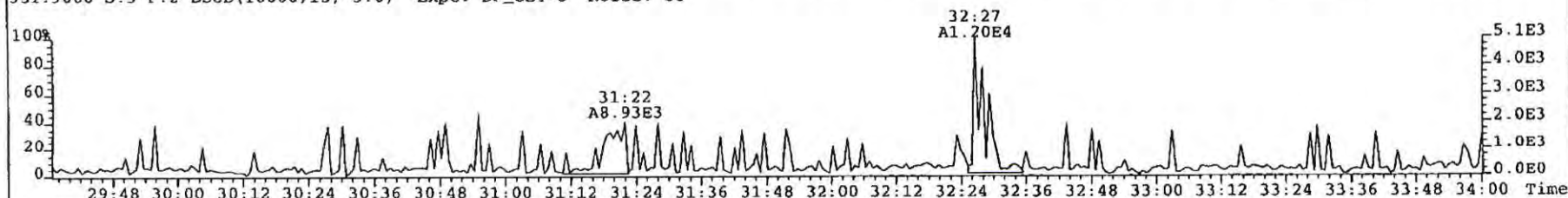
File: 090325P2 Acq: 26-MAR-2009 00:33:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5  
339.8597 S:3 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 74



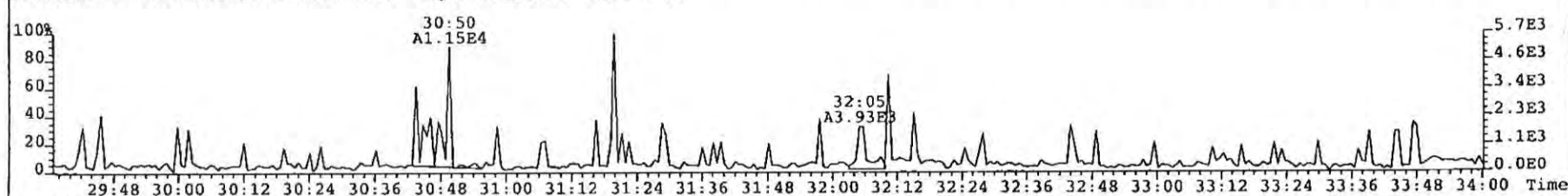
341.8568 S:3 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 74



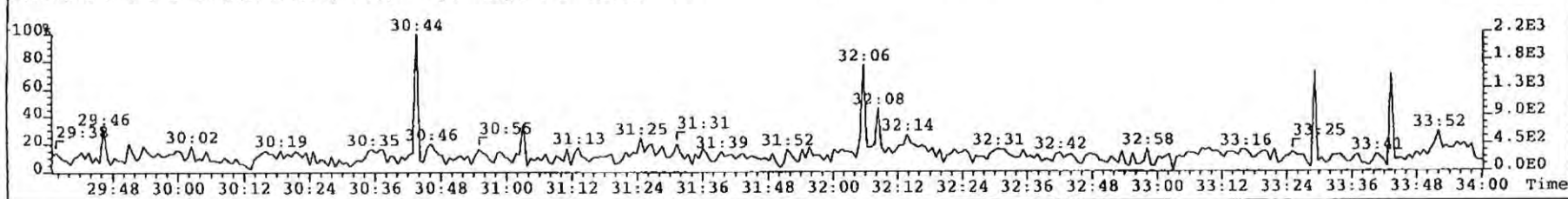
351.9000 S:3 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 88



353.8970 S:3 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 90

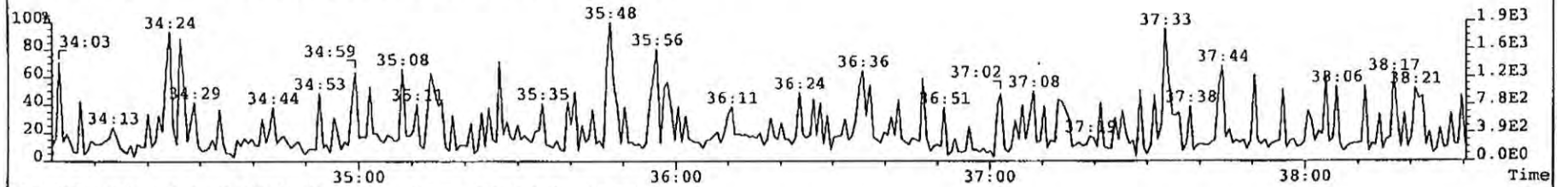


409.7974 S:3 F:2 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 80

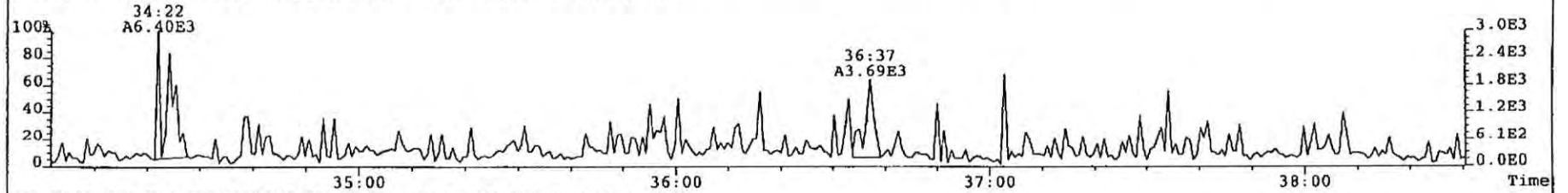




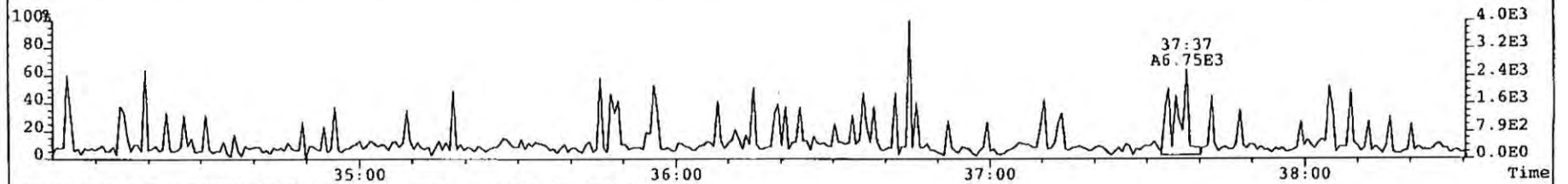
File: 090325P2 Acq: 26-MAR-2009 00:33:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5  
373.8207 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 80



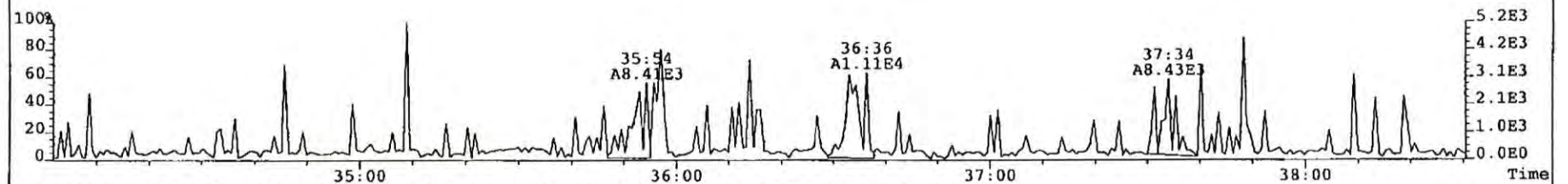
375.8178 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 83



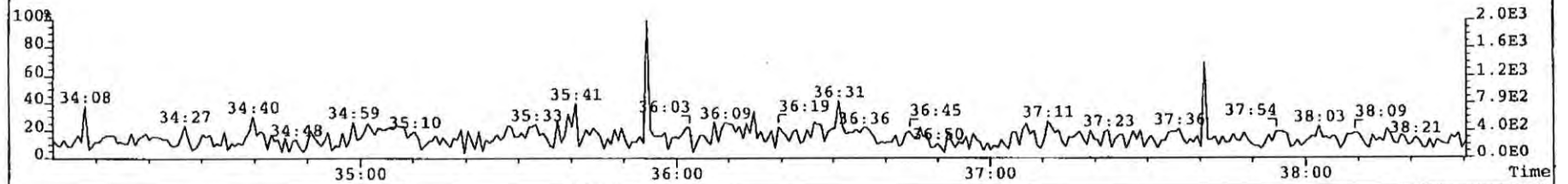
383.8639 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 100



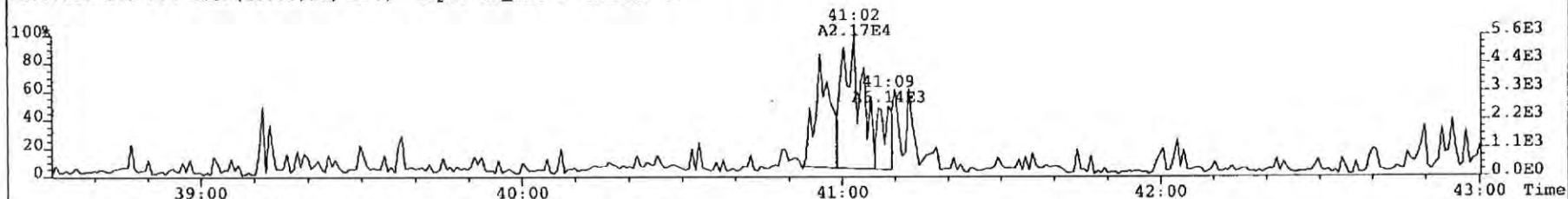
385.8610 S:3 F:3 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 91



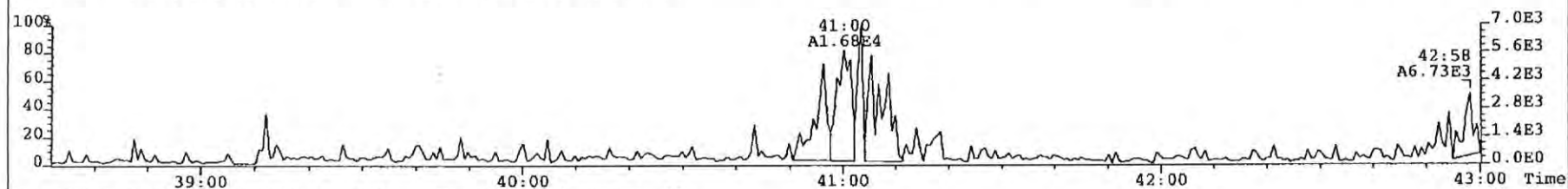
445.7555 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,750.0,0.00%,F,F) Expt: DF\_CL4-8 Noise: 92



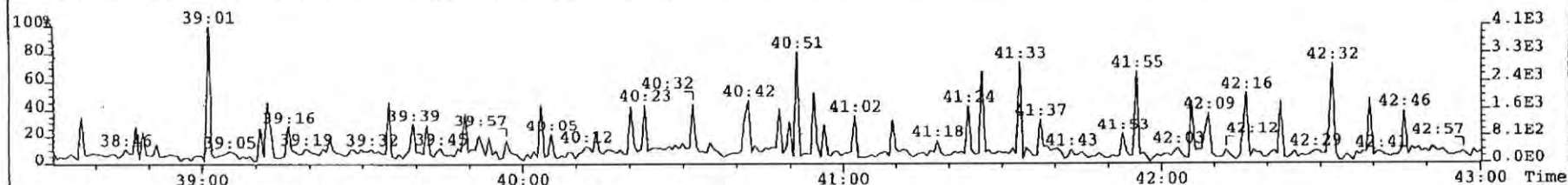
File: 090325P2 Acq: 26-MAR-2009 00:33:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5  
407.7818 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 86



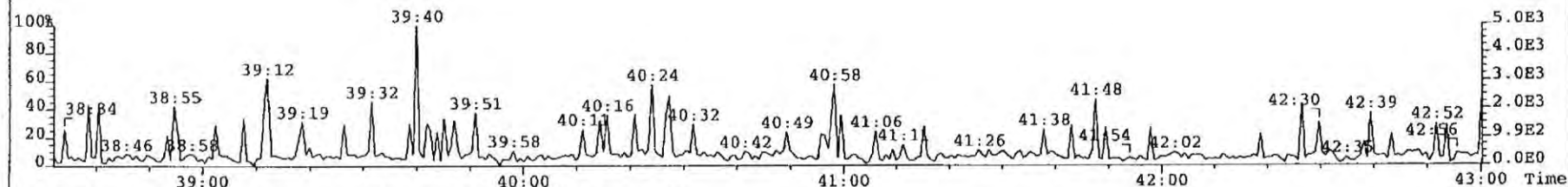
409.7788 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 97



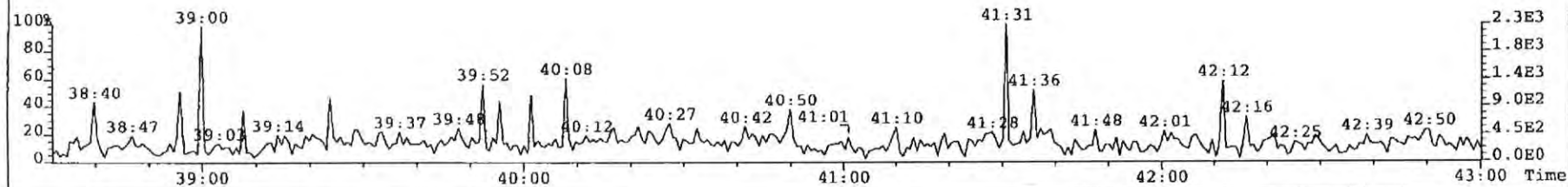
417.8253 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 99



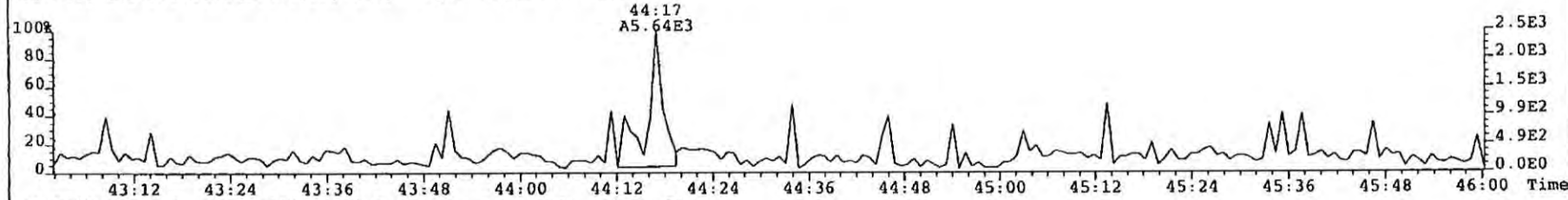
419.8220 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 99



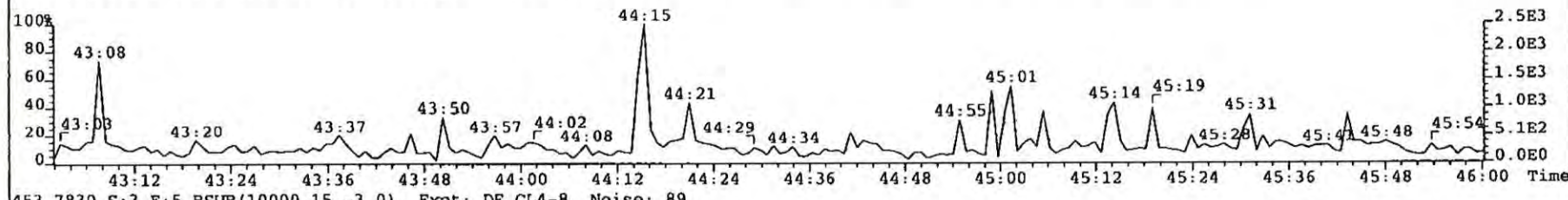
479.7165 S:3 F:4 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 92



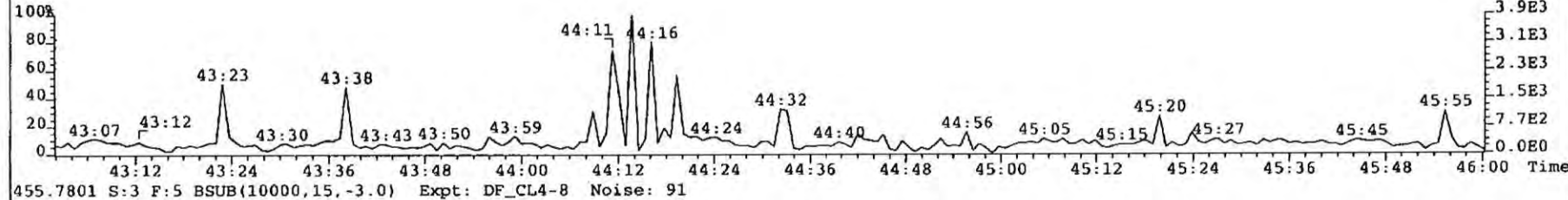
File: 090325P2 Acq: 26-MAR-2009 00:33:33 GC EI+ Voltage SIR Autospec-UltimaE  
Sample# 3 Text: SBS SOLVENT BLANK Vial# 15 File Text: AP DB5  
441.7428 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 70



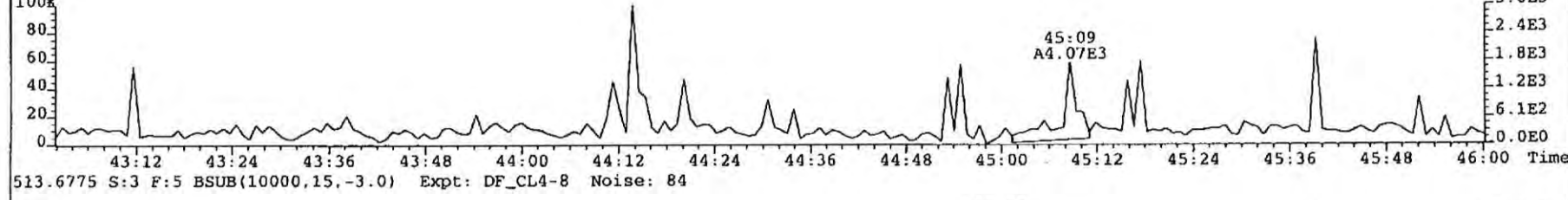
443.7398 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 81



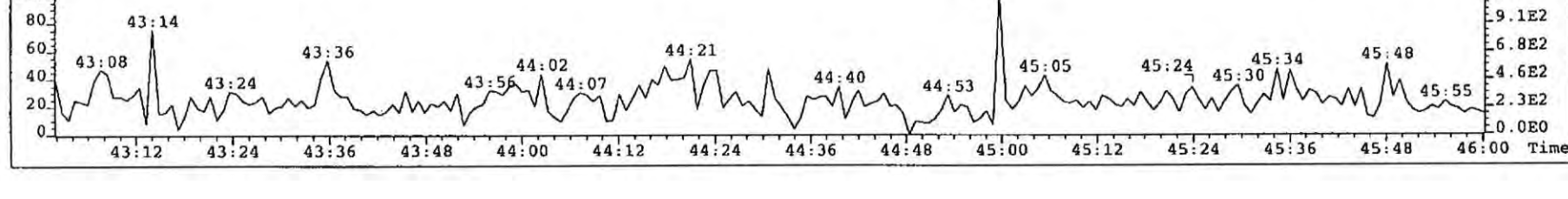
453.7830 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 89



455.7801 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 91



513.6775 S:3 F:5 BSUB(10000,15,-3.0) Expt: DF\_CL4-8 Noise: 84





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