

### Data Validation Checklist Semivolatile Organic Analyses

Project: 35<sup>TH</sup> Avenue Superfund Site  
 Laboratory: TestAmerica - Savannah, GA<sup>1</sup>  
 Method: SW-846 8270C Low-Level (PAH)  
 Matrix: Soil  
 Reviewer: Karen Marie Trujillo, URS Group, Inc.  
 Concurrence<sup>2</sup>: Martha Meyers-Lee, URS Group, Inc.

Project No: 15268508.20000  
 Job ID.: 680-89791-1  
 Associated Samples: Refer to **Attachment A** (Sample Summary)  
 Samples Collected: 04/24/2013 & 04/25/2013  
 Date: 05/22/2013  
 Date: 05/22/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.	✓				
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 042313-RB-Sieve (680-89695-35).	

<sup>1</sup> All analytical work subcontracted to TestAmerica of Tampa, FL

<sup>2</sup> Independent technical reviewer

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank, 042313-RB-Sieve (680-89695-35), was collected during the week of 4/22/13. The rinsate blank was analyzed for PAHs under Test America Job ID 680-89695-2.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?	✓			CV1336A-CSD (680-89791-11) is a field duplicate of CV1336A-CS (680-89791-10).	
15. Was precision deemed acceptable as defined by the project plans?	✓			Refer to <b>Attachment B</b> (Field Duplicate Evaluation)	
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? <ul style="list-style-type: none"> <li>Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative.</li> <li>An initial calibration is to be associated with each sample analysis.</li> <li>A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.</li> </ul>	✓			<ul style="list-style-type: none"> <li>Instrument ID: BSMA5973</li> <li>Initial Calibration: 04/26/2013</li> <li>ICV: 04/26/13 @ 11:49</li> <li>CCV: 04/30/13 @ 11:37</li> <li>CCV: 05/01/13 @ 14:15</li> <li>CCV: 05/02/13 @ 16:18</li> </ul> <ul style="list-style-type: none"> <li>Instrument ID: BSMA5973</li> <li>Initial Calibration: 05/06/2013</li> <li>ICV: 05/06/13 @ 12:11</li> </ul>	
19. Were calibration results within laboratory/project specifications? <ul style="list-style-type: none"> <li>ICAL (Criteria: <math>\leq 15</math> mean %RSD with individual CCC %RSD <math>\leq 30</math> (<math>\leq 50\%</math> for poor performers), OR <math>r \geq 0.995</math>, OR <math>r^2 \geq 0.99</math>, and RRF <math>\geq 0.050</math> (<math>\geq 0.010</math> for poor performers)): <ul style="list-style-type: none"> <li>If %RSD <math>&gt; 15</math> (<math>&gt; 50\%</math> for poor performers), or <math>r &lt; 0.995</math>, or <math>r^2 &lt; 0.995</math>, then J-flag positive results and UJ-flag non-detects</li> </ul> </li> </ul>	✓				

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> <li>○ If mean RRF &lt;0.050 (&lt;0.010 for poor performers), then J-flag positive results and R-flag non-detects</li> <li>• ICV and CCV (Criteria: <math>\leq 20\%D</math> (<math>\leq 50\%</math> for poor performers) and <math>RF \geq 0.050</math> (<math>\geq 0.010</math> for poor performers)): <ul style="list-style-type: none"> <li>○ If <math>\%D &gt; 20</math> (<math>&gt; 50\%</math> for poor performers), then J-flag positive results and UJ-flag non-detects</li> <li>○ If <math>RF &lt; 0.050</math> (<math>&lt; 0.010</math> for poor performers), then UJ-flag non-detected semivolatile target compounds</li> </ul> </li> </ul>					
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when $\%R > \text{Upper Control Limit (UCL)}$ and J/R-flag results when $\%R < \text{Lower Control Limit (LCL)}$ .	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects.			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			<ul style="list-style-type: none"> <li>• Prep Batch 136938: 680-89695-21 (Batch sample), MS/MSD. Lab sample 680-89695-21 is a project-specific sample (CV1158A-CS) that was selected by TestAmerica for the PAH MS/MSD analyses, and the results were reported under Job ID 680-89695-2.</li> <li>• Prep Batch 136958: 680-89791-2 (HP0200B-CS-SP), MS/MSD</li> <li>• Prep Batch 136975: 680-89791-22 (Batch sample), MS/MSD. Lab sample 680-89791-22 is a project-specific sample (CV0752C-GS-SP) that was selected by TestAmerica for the PAH MS/MSD analyses, and the results were reported under Job ID 680-89791-2.</li> <li>• Prep Batch 137132: 680-89985-3 (Batch sample), MS/MSD. Lab sample 680-89985-3 is a project-specific sample (CV1067B-CS) that was selected by TestAmerica for the PAH MS/MSD analyses, and the results were reported under Job ID 680-89985-1.</li> </ul>	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> <li>• If the native sample concentration &gt; 4x spiking level, then an</li> </ul>		✓		HP0200B-CS-SP (680-89791-2): <ul style="list-style-type: none"> <li>• Acenaphthene @ 0 and 0 %R (39-130). R-Flag ND sample result.</li> <li>• Acenaphthylene @ 21 and 11 %R (38-130). UJ Flag</li> </ul>	J/UJ/R

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<p>evaluation of interference is not possible.</p> <ul style="list-style-type: none"> <li>If either MS or MSD recovery meets control limits, qualification of data is not warranted.</li> <li>MS and MSD %R&lt;10: J and R Flag positive and ND results, respectively</li> <li>MS and MSD %R &gt;10 and &lt;LCL: J-Flag positive and UJ-flag non-detect results</li> <li>MS and MSD R% &gt;UCL (or 140): J-Flag positive results</li> </ul>				<p>ND sample result.</p> <ul style="list-style-type: none"> <li>Anthracene @ 21 and 12 %R (37-130). UJ Flag ND sample result.</li> <li>Benzo[a]anthracene @ 30 and 22 %R (40-130). UJ Flag ND sample result.</li> <li>Benzo[a]pyrene @ 19 and 13 %R (49-130). UJ ND Flag sample result.</li> <li>Benzo[b]fluoranthene @ 14 and 9 %R (37-130). J Flag positive result.</li> <li>Benzo[g,h,i]perylene @ 15 and 7 %R (32-130). J Flag positive result.</li> <li>Benzo[k]fluoranthene @ 25 and 12 %R (32-130). UJ Flag ND sample result.</li> <li>Chrysene @ 18 and 9 %R (41-130). J Flag positive result.</li> <li>Dibenz(a,h)anthracene @ 21 and 11 %R (27-130). UJ Flag ND sample result.</li> <li>Fluoranthene @ 21 and 13 %R (40-130). J Flag positive result.</li> <li>Fluorene @ 29 and 3 %R (40-130). J Flag positive result.</li> <li>Indeno[1,2,3-cd]pyrene @ 20 and 13 %R (30-130). UJ Flag ND sample result.</li> <li>1-Methylnaphthalene @ 21 and 14 %R (31-130). UJ Flag ND sample result.</li> <li>2-Methylnaphthalene @ 35 and 17 %R (33-130). Qualification of data not required<sup>3</sup>.</li> <li>Naphthalene @ 23 and -102 %R (36-130). J Flag positive result.</li> <li>Phenanthrene @ 25 and 3 %R (42-130). J Flag positive result.</li> <li>Pyrene @ 14 and 9 %R (44-130). J Flag positive result.</li> </ul>	
<p>26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i></p> <ul style="list-style-type: none"> <li>If the native sample concentration &gt; 4x spiking level, then an</li> </ul>		✓		<p>HP0200B-CS-SP (680-89791-2):</p> <ul style="list-style-type: none"> <li>Acenaphthylene @ 63 %RPD (≤40), UJ-Flag</li> <li>Anthracene @ 51 %RPD (≤40), UJ-Flag</li> <li>Benzo[a]pyrene @ 41%RPD (≤40), UJ-Flag</li> </ul>	J/UJ

<sup>3</sup> The recovery of either the MS or MSD met control limits.

**Data Validation Checklist (Continued)**

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
evaluation of interference is not possible. <ul style="list-style-type: none"> <li>• If %RPD &gt; UCL, J-flag positive result and UJ-flag non-detect result.</li> </ul>				<ul style="list-style-type: none"> <li>• Benzo[k]fluoranthene @ 68 %RPD (<math>\leq 40</math>), UJ-Flag</li> <li>• Dibenz(a,h)anthracene @ 61 %RPD (<math>\leq 40</math>), UJ-Flag</li> <li>• Flourene @ 87 %RPD (<math>&lt; 40</math>). J-Flag</li> <li>• 1-Methylnaphthalene @ 42 %RPD (<math>\leq 40</math>), UJ-Flag</li> <li>• 2-Methylnaphthalene @ 72 %RPD (<math>\leq 40</math>), UJ-Flag</li> <li>• Napthalene @ 90 %RPD (<math>\leq 40</math>). J-Flag</li> <li>• Phenanthrene @ 58 %RPD (<math>\leq 40</math>). J-Flag</li> </ul>	
27. Were surrogate recoveries within lab/project specifications? <ul style="list-style-type: none"> <li>• If %R for 1 Acid or BN surrogates <math>&lt; 10</math>, then J-flag positive and R-flag non-detect associated sample results</li> <li>• If 2 or more Acid or BN %R <math>&gt; UCL</math>, then J-flag positive results</li> <li>• If 2 or more Acid or BN %R <math>\geq 10\%</math>, but <math>&lt; LCL</math>, then J-flag positive results and UJ-flag non-detect results</li> <li>• If 2 or more Acid or BN , with 1 %R <math>&gt; UCL</math> and 1 %R <math>\geq 10\%</math>, but <math>&lt; LCL</math>, then J-flag positive results and UJ-flag non-detect results</li> </ul>		✓		HP0200B-CS-SP (680-89791-2): o-Terphenyl @28%R (30-130). J and UJ-Flag all positive and ND results, respectively.	J/UJ
28. Were internal standard (IS) results within lab/project specifications? <ul style="list-style-type: none"> <li>• If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results</li> <li>• If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results</li> <li>• If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results</li> <li>• If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data.</li> <li>• The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.</li> </ul>	✓				
29. Were lab comments included in report?	✓			Refer to <b>Attachment C</b> (Case Narrative)	

**Data Validation Checklist (Continued)**

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<p><b>Comments:</b> The data validation was conducted in accordance with the <i>Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1</i> (OTIE, October 2012). The data review process was modeled after the <i>USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review</i> (EPA, October 1999) and <i>USEPA CLP NFG for Low Concentration Organic Methods Data Review</i> (EPA, June 2001). Sample results have been qualified based on the results of the data review process (<b>Attachment D</b>). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.</p>					

**DV Flag Definitions:**

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- R The sample results are unusable. The analyte may or may not be present in the sample.
- U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
- UJ The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

**ATTACHMENT A**  
**SAMPLE SUMMARY**

# Sample Summary

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
SDG: 68089791-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89791-1	HP0200A-CS-SP	Solid	04/24/13 10:17	04/27/13 08:25
680-89791-2	HP0200B-CS-SP	Solid	04/24/13 10:30	04/27/13 08:25
680-89791-3	HP0232A-CS-SP	Solid	04/24/13 09:27	04/27/13 08:25
680-89791-4	HP0232B-CS-SP	Solid	04/24/13 09:41	04/27/13 08:25
680-89791-5	HP0288A-CS-SP	Solid	04/24/13 08:56	04/27/13 08:25
680-89791-6	CV1342A-CS-SP	Solid	04/24/13 11:20	04/27/13 08:25
680-89791-7	CV1342B-CS-SP	Solid	04/24/13 11:27	04/27/13 08:25
680-89791-8	CV1116A-CS	Solid	04/24/13 10:25	04/27/13 08:25
680-89791-9	CV1116B-CS	Solid	04/24/13 10:25	04/27/13 08:25
680-89791-10	CV1336A-CS	Solid	04/24/13 09:20	04/27/13 08:25
680-89791-11	CV1336A-CSD	Solid	04/24/13 09:20	04/27/13 08:25
680-89791-12	CV1336B-CS	Solid	04/24/13 09:30	04/27/13 08:25
680-89791-13	CV0790A-CS-SP	Solid	04/24/13 13:41	04/27/13 08:25
680-89791-14	CV0790B-CS-SP	Solid	04/24/13 13:52	04/27/13 08:25
680-89791-15	CV0790C-CS-SP	Solid	04/24/13 13:54	04/27/13 08:25
680-89791-18	CV0121A-CS-SP	Solid	04/25/13 10:58	04/27/13 08:25
680-89791-19	CV0121B-CS-SP	Solid	04/25/13 11:12	04/27/13 08:25
680-89791-20	CV0752A-CS-SP	Solid	04/25/13 09:00	04/27/13 08:25
680-89791-21	CV0752B-CS-SP	Solid	04/25/13 09:13	04/27/13 08:25
680-89791-23	CV1312A-CS-SP	Solid	04/25/13 09:50	04/27/13 08:25



**ATTACHMENT B**  
**FIELD DUPLICATE EVALUATION**

Evaluation of Field Duplicate Results

Analyte	CV1336A-CS 680-89791-10	RL	CV1336A-CSD 680-89791-11	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	14	J 48	18	J 48	µg/kg	240	NA	4	96	None, absolute difference ≤ 2x Avg RL
Anthracene	22	10	25	10	µg/kg	50	NA	3	20	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	82	9.6	97	9.6	µg/kg	48	17	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	83	12	110	13	µg/kg	62.5	28	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	140	15	190	15	µg/kg	75	30	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	59	24	76	24	µg/kg	120	NA	17	48	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	47	9.6	49	9.6	µg/kg	48	NA	2	19.2	None, absolute difference ≤ 2x Avg RL
Chrysene	110	11	140	11	µg/kg	55	24	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	17	J 24	17	J 24	µg/kg	120	NA	0	48	None, absolute difference ≤ 2x Avg RL
Fluoranthene	120	24	150	24	µg/kg	120	NA	30	48	None, absolute difference ≤ 2x Avg RL
Fluorene	5.1	J 24	5.5	J 24	µg/kg	120	NA	0.4	48	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	58	24	75	24	µg/kg	120	NA	17	48	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	35	J 48	41	J 48	µg/kg	240	NA	6	96	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	41	J 48	52	48	µg/kg	240	NA	11	96	None, absolute difference ≤ 2x Avg RL
Naphthalene	41	J 48	47	J 48	µg/kg	240	NA	6	96	None, absolute difference ≤ 2x Avg RL
Phenanthrene	79	9.6	95	9.6	µg/kg	48	18	NA	NA	None, RPD ≤ 50%
Pyrene	88	24	110	24	µg/kg	120	NA	22	48	None, absolute difference ≤ 2x Avg RL

Note: If the analyte was not detected, then the cell was left blank.

µg/kg - micrograms per kilogram

J - Estimated value

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

**ATTACHMENT C**  
**CASE NARRATIVE**

# Case Narrative

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
SDG: 68089791-1

**Job ID: 680-89791-1**

**Laboratory: TestAmerica Savannah**

Narrative

## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-89791-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

### RECEIPT

The samples were received on 04/27/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.4° C and 2.8° C.

### SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples HP0200A-CS-SP (680-89791-1), HP0200B-CS-SP (680-89791-2), HP0232A-CS-SP (680-89791-3), HP0232B-CS-SP (680-89791-4), HP0288A-CS-SP (680-89791-5), CV1342A-CS-SP (680-89791-6), CV1342B-CS-SP (680-89791-7), CV1116A-CS (680-89791-8), CV1116B-CS (680-89791-9), CV1336A-CS (680-89791-10), CV1336A-CSD (680-89791-11), CV1336B-CS (680-89791-12), CV0790A-CS-SP (680-89791-13), CV0790B-CS-SP (680-89791-14), CV0790C-CS-SP (680-89791-15), CV0121A-CS-SP (680-89791-18), CV0121B-CS-SP (680-89791-19), CV0752A-CS-SP (680-89791-20), CV0752B-CS-SP (680-89791-21) and CV1312A-CS-SP (680-89791-23) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/29/2013, 04/30/2013 and 05/06/2013 and analyzed on 04/30/2013, 05/01/2013, 05/02/2013 and 05/06/2013.

Samples CV1342B-CS-SP (680-89791-7)[4X], CV1116A-CS (680-89791-8)[4X], CV0790A-CS-SP (680-89791-13)[4X], CV0790B-CS-SP (680-89791-14)[4X], CV0121A-CS-SP (680-89791-18)[4X] and CV0752B-CS-SP (680-89791-21)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

o-Terphenyl recovered outside the surrogate recovery criteria for HP0200B-CS-SP (680-89791-2) and its associated MS/MSD.

Benzo[a]pyrene, Chrysene, Fluoranthene and Pyrene recovered outside the recovery criteria for the MSD of sample 680-89695-21 in batch 660-137001. Fluoranthene and Pyrene exceeded the rpd limit.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample HP0200B-CS-SP (680-89791-2) in batch 660-136977. Several analytes also exceeded the rpd limit.

Benzo[a]pyrene recovered outside the recovery criteria for the MSD of sample 680-89791-22 in batch 660-137070.

Several analytes recovered outside the recovery criteria for the MSD of sample 680-89985-3 in batch 660-137156. Several analytes also exceeded the rpd limit.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

**ATTACHMENT D**  
**QUALIFIED SAMPLE RESULTS**

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

**Client Sample ID: HP0200A-CS-SP**

**Lab Sample ID: 680-89791-1**

Date Collected: 04/24/13 10:17

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 86.0

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1100	U	1100	230	ug/Kg	*	05/06/13 08:14	05/06/13 21:43	1
Acenaphthylene	450	U	450	57	ug/Kg	*	05/06/13 08:14	05/06/13 21:43	1
Anthracene	95	U	95	48	ug/Kg	*	05/06/13 08:14	05/06/13 21:43	1
<b>Benzo[a]anthracene</b>	<b>94</b>		91	44	ug/Kg	*	05/06/13 08:14	05/06/13 21:43	1
Benzo[a]pyrene	120	U	120	59	ug/Kg	*	05/06/13 08:14	05/06/13 21:43	1
Benzo[b]fluoranthene	140	U	140	69	ug/Kg	*	05/06/13 08:14	05/06/13 21:43	1
<b>Benzo[g,h,i]perylene</b>	<b>84</b>	<b>J</b>	230	50	ug/Kg	*	05/06/13 08:14	05/06/13 21:43	1
Benzo[k]fluoranthene	91	U	91	41	ug/Kg	*	05/06/13 08:14	05/06/13 21:43	1
<b>Chrysene</b>	<b>130</b>		100	51	ug/Kg	*	05/06/13 08:14	05/06/13 21:43	1
Dibenz(a,h)anthracene	230	U	230	47	ug/Kg	*	05/06/13 08:14	05/06/13 21:43	1
<b>Fluoranthene</b>	<b>90</b>	<b>J</b>	230	45	ug/Kg	*	05/06/13 08:14	05/06/13 21:43	1
<b>Fluorene</b>	<b>260</b>		230	47	ug/Kg	*	05/06/13 08:14	05/06/13 21:43	1
Indeno[1,2,3-cd]pyrene	230	U	230	81	ug/Kg	*	05/06/13 08:14	05/06/13 21:43	1
1-Methylnaphthalene	450	U	450	50	ug/Kg	*	05/06/13 08:14	05/06/13 21:43	1
<b>2-Methylnaphthalene</b>	<b>110</b>	<b>J</b>	450	81	ug/Kg	*	05/06/13 08:14	05/06/13 21:43	1
<b>Naphthalene</b>	<b>1300</b>		450	50	ug/Kg	*	05/06/13 08:14	05/06/13 21:43	1
<b>Phenanthrene</b>	<b>230</b>		91	44	ug/Kg	*	05/06/13 08:14	05/06/13 21:43	1
<b>Pyrene</b>	<b>120</b>	<b>J</b>	230	42	ug/Kg	*	05/06/13 08:14	05/06/13 21:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	38		30 - 130	05/06/13 08:14	05/06/13 21:43	1

**Client Sample ID: HP0200B-CS-SP**

**Lab Sample ID: 680-89791-2**

Date Collected: 04/24/13 10:30

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 84.1

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<del>1200</del>	<del>UF</del> R	<del>1200</del>	<del>240</del>	ug/Kg	*	04/30/13 09:33	04/30/13 16:12	1
Acenaphthylene	470	UF UJ	470	59	ug/Kg	*	04/30/13 09:33	04/30/13 16:12	1
Anthracene	99	UF UJ	99	50	ug/Kg	*	04/30/13 09:33	04/30/13 16:12	1
Benzo[a]anthracene	95	UF UJ	95	46	ug/Kg	*	04/30/13 09:33	04/30/13 16:12	1
Benzo[a]pyrene	120	UF UJ	120	61	ug/Kg	*	04/30/13 09:33	04/30/13 16:12	1
<b>Benzo[b]fluoranthene</b>	<b>72</b>	<del>UF</del> J	140	72	ug/Kg	*	04/30/13 09:33	04/30/13 16:12	1
<b>Benzo[g,h,i]perylene</b>	<b>76</b>	<del>UF</del> J	240	52	ug/Kg	*	04/30/13 09:33	04/30/13 16:12	1
Benzo[k]fluoranthene	95	UF UJ	95	43	ug/Kg	*	04/30/13 09:33	04/30/13 16:12	1
<b>Chrysene</b>	<b>120</b>	<del>UF</del> J	110	53	ug/Kg	*	04/30/13 09:33	04/30/13 16:12	1
Dibenz(a,h)anthracene	240	UF UJ	240	48	ug/Kg	*	04/30/13 09:33	04/30/13 16:12	1
<b>Fluoranthene</b>	<b>76</b>	<del>UF</del> J	240	47	ug/Kg	*	04/30/13 09:33	04/30/13 16:12	1
<b>Fluorene</b>	<b>110</b>	<del>UF</del> J	240	48	ug/Kg	*	04/30/13 09:33	04/30/13 16:12	1
Indeno[1,2,3-cd]pyrene	240	UF UJ	240	84	ug/Kg	*	04/30/13 09:33	04/30/13 16:12	1
1-Methylnaphthalene	470	UF UJ	470	52	ug/Kg	*	04/30/13 09:33	04/30/13 16:12	1
2-Methylnaphthalene	470	UF UJ	470	84	ug/Kg	*	04/30/13 09:33	04/30/13 16:12	1
<b>Naphthalene</b>	<b>1400</b>	<del>UF</del> J	470	52	ug/Kg	*	04/30/13 09:33	04/30/13 16:12	1
<b>Phenanthrene</b>	<b>190</b>	<del>UF</del> J	95	46	ug/Kg	*	04/30/13 09:33	04/30/13 16:12	1
<b>Pyrene</b>	<b>78</b>	<del>UF</del> J	240	44	ug/Kg	*	04/30/13 09:33	04/30/13 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	28	X	30 - 130	04/30/13 09:33	04/30/13 16:12	1

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTTE, October 2012)

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

**Client Sample ID: HP0232A-CS-SP**

**Lab Sample ID: 680-89791-3**

Date Collected: 04/24/13 09:27

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 80.7

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Acenaphthylene	11	J	50	6.2	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Anthracene	17		10	5.2	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Benzo[a]anthracene	62		9.9	4.8	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Benzo[a]pyrene	54		13	6.4	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Benzo[b]fluoranthene	100		15	7.6	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Benzo[g,h,i]perylene	42		25	5.4	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Benzo[k]fluoranthene	30		9.9	4.5	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Chrysene	96		11	5.6	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Dibenz(a,h)anthracene	13	J	25	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Fluoranthene	92		25	5.0	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Fluorene	8.8	J	25	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Indeno[1,2,3-cd]pyrene	38		25	8.8	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
1-Methylnaphthalene	56		50	5.4	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
2-Methylnaphthalene	64		50	8.8	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Naphthalene	71		50	5.4	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Phenanthrene	110		9.9	4.8	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Pyrene	73		25	4.6	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	46		30 - 130				04/29/13 14:27	05/01/13 18:03	1

**Client Sample ID: HP0232B-CS-SP**

**Lab Sample ID: 680-89791-4**

Date Collected: 04/24/13 09:41

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 81.7

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Acenaphthylene	17	J	49	6.1	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Anthracene	81		10	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Benzo[a]anthracene	140		9.7	4.8	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Benzo[a]pyrene	120		13	6.3	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Benzo[b]fluoranthene	190		15	7.4	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Benzo[g,h,i]perylene	79		24	5.4	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Benzo[k]fluoranthene	67		9.7	4.4	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Chrysene	160		11	5.5	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Dibenz(a,h)anthracene	27		24	5.0	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Fluoranthene	310		24	4.9	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Fluorene	32		24	5.0	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Indeno[1,2,3-cd]pyrene	82		24	8.7	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
1-Methylnaphthalene	66		49	5.4	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
2-Methylnaphthalene	79		49	8.7	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Naphthalene	86		49	5.4	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Phenanthrene	300		9.7	4.8	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Pyrene	200		24	4.5	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	58		30 - 130				04/29/13 14:27	05/01/13 18:18	1

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTTE, October 2012)

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

**Client Sample ID: HP0288A-CS-SP**

**Lab Sample ID: 680-89791-5**

Date Collected: 04/24/13 08:56

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 80.2

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Acenaphthylene	26	J	50	6.3	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Anthracene	39		11	5.3	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Benzo[a]anthracene	97		10	4.9	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Benzo[a]pyrene	97		13	6.5	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Benzo[b]fluoranthene	170		15	7.6	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Benzo[g,h,i]perylene	70		25	5.5	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Benzo[k]fluoranthene	66		10	4.5	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Chrysene	140		11	5.6	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Dibenz(a,h)anthracene	19	J	25	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Fluoranthene	150		25	5.0	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Fluorene	13	J	25	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Indeno[1,2,3-cd]pyrene	75		25	8.9	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
1-Methylnaphthalene	50		50	5.5	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
2-Methylnaphthalene	64		50	8.9	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Naphthalene	90		50	5.5	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Phenanthrene	120		10	4.9	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Pyrene	110		25	4.6	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	51		30 - 130				04/29/13 14:27	05/01/13 18:33	1

**Client Sample ID: CV1342A-CS-SP**

**Lab Sample ID: 680-89791-6**

Date Collected: 04/24/13 11:20

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 86.4

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	58	J	120	23	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Acenaphthylene	37	J	46	5.8	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Anthracene	320		9.7	4.9	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Benzo[a]anthracene	1600		9.3	4.5	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Benzo[a]pyrene	1500		12	6.0	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Benzo[b]fluoranthene	2200		14	7.1	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Benzo[g,h,i]perylene	980		23	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Benzo[k]fluoranthene	660		9.3	4.2	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Chrysene	1400		10	5.2	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Dibenz(a,h)anthracene	380		23	4.7	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Fluoranthene	3300		23	4.6	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Fluorene	58		23	4.7	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Indeno[1,2,3-cd]pyrene	1000		23	8.2	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
1-Methylnaphthalene	140		46	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
2-Methylnaphthalene	190		46	8.2	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Naphthalene	140		46	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Phenanthrene	1700		9.3	4.5	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Pyrene	2400		23	4.3	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	55		30 - 130				04/29/13 14:27	05/01/13 18:48	1

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTTE, October 2012)

TestAmerica Savannah



# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

**Client Sample ID: CV1342B-CS-SP**

**Lab Sample ID: 680-89791-7**

Date Collected: 04/24/13 11:27

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 81.1

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
<b>Acenaphthylene</b>	<b>56</b>	<b>J</b>	200	25	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
<b>Anthracene</b>	<b>310</b>		41	21	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
<b>Benzo[a]anthracene</b>	<b>860</b>		39	19	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
<b>Benzo[a]pyrene</b>	<b>760</b>		51	26	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
<b>Benzo[b]fluoranthene</b>	<b>1200</b>		60	30	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
<b>Benzo[g,h,i]perylene</b>	<b>450</b>		98	22	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
<b>Benzo[k]fluoranthene</b>	<b>470</b>		39	18	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
<b>Chrysene</b>	<b>1000</b>		44	22	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
<b>Dibenz(a,h)anthracene</b>	<b>160</b>		98	20	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
<b>Fluoranthene</b>	<b>2100</b>		98	20	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
<b>Fluorene</b>	<b>100</b>		98	20	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>510</b>		98	35	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
<b>1-Methylnaphthalene</b>	<b>170</b>	<b>J</b>	200	22	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
<b>2-Methylnaphthalene</b>	<b>210</b>		200	35	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
<b>Naphthalene</b>	<b>170</b>	<b>J</b>	200	22	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
<b>Phenanthrene</b>	<b>1700</b>		39	19	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
<b>Pyrene</b>	<b>1300</b>		98	18	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	50		30 - 130				04/29/13 14:27	05/01/13 19:03	4

**Client Sample ID: CV1116A-CS**

**Lab Sample ID: 680-89791-8**

Date Collected: 04/24/13 10:25

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 79.6

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
<b>Acenaphthylene</b>	<b>30</b>	<b>J</b>	200	25	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
<b>Anthracene</b>	<b>40</b>	<b>J</b>	42	21	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
<b>Benzo[a]anthracene</b>	<b>130</b>		40	20	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
<b>Benzo[a]pyrene</b>	<b>88</b>		52	26	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
<b>Benzo[b]fluoranthene</b>	<b>170</b>		61	31	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
<b>Benzo[g,h,i]perylene</b>	<b>59</b>	<b>J</b>	100	22	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
<b>Benzo[k]fluoranthene</b>	<b>39</b>	<b>J</b>	40	18	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
<b>Chrysene</b>	<b>140</b>		45	23	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
Dibenz(a,h)anthracene	100	U	100	21	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
<b>Fluoranthene</b>	<b>150</b>		100	20	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
Fluorene	100	U	100	21	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>67</b>	<b>J</b>	100	36	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
<b>1-Methylnaphthalene</b>	<b>68</b>	<b>J</b>	200	22	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
<b>2-Methylnaphthalene</b>	<b>120</b>	<b>J</b>	200	36	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
<b>Naphthalene</b>	<b>86</b>	<b>J</b>	200	22	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
<b>Phenanthrene</b>	<b>150</b>		40	20	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
<b>Pyrene</b>	<b>110</b>		100	19	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	50		30 - 130				04/29/13 14:27	05/01/13 19:18	4

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTTE, October 2012)

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

**Client Sample ID: CV1116B-CS**

**Lab Sample ID: 680-89791-9**

Date Collected: 04/24/13 10:25

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 80.4

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Acenaphthylene</b>	<b>18</b>	<b>J</b>	50	6.2	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Anthracene</b>	<b>23</b>		10	5.2	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Benzo[a]anthracene</b>	<b>59</b>		10	4.9	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Benzo[a]pyrene</b>	<b>53</b>		13	6.5	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Benzo[b]fluoranthene</b>	<b>100</b>		15	7.6	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Benzo[g,h,i]perylene</b>	<b>42</b>		25	5.5	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Benzo[k]fluoranthene</b>	<b>29</b>		10	4.5	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Chrysene</b>	<b>69</b>		11	5.6	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Dibenz(a,h)anthracene</b>	<b>11</b>	<b>J</b>	25	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Fluoranthene</b>	<b>95</b>		25	5.0	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
Fluorene	25	U	25	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>41</b>		25	8.9	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>1-Methylnaphthalene</b>	<b>17</b>	<b>J</b>	50	5.5	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>2-Methylnaphthalene</b>	<b>24</b>	<b>J</b>	50	8.9	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Naphthalene</b>	<b>30</b>	<b>J</b>	50	5.5	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Phenanthrene</b>	<b>63</b>		10	4.9	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Pyrene</b>	<b>63</b>		25	4.6	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	36		30 - 130				04/29/13 14:27	05/01/13 19:33	1

**Client Sample ID: CV1336A-CS**

**Lab Sample ID: 680-89791-10**

Date Collected: 04/24/13 09:20

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 82.6

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Acenaphthylene</b>	<b>14</b>	<b>J</b>	48	6.0	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Anthracene</b>	<b>22</b>		10	5.0	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Benzo[a]anthracene</b>	<b>82</b>		9.6	4.7	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Benzo[a]pyrene</b>	<b>83</b>		12	6.2	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Benzo[b]fluoranthene</b>	<b>140</b>		15	7.3	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Benzo[g,h,i]perylene</b>	<b>59</b>		24	5.3	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Benzo[k]fluoranthene</b>	<b>47</b>		9.6	4.3	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Chrysene</b>	<b>110</b>		11	5.4	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Dibenz(a,h)anthracene</b>	<b>17</b>	<b>J</b>	24	4.9	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Fluoranthene</b>	<b>120</b>		24	4.8	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Fluorene</b>	<b>5.1</b>	<b>J</b>	24	4.9	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>58</b>		24	8.5	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>1-Methylnaphthalene</b>	<b>35</b>	<b>J</b>	48	5.3	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>2-Methylnaphthalene</b>	<b>41</b>	<b>J</b>	48	8.5	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Naphthalene</b>	<b>41</b>	<b>J</b>	48	5.3	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Phenanthrene</b>	<b>79</b>		9.6	4.7	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Pyrene</b>	<b>88</b>		24	4.4	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	56		30 - 130				04/29/13 14:27	05/01/13 19:48	1

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTTE, October 2012)

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

**Client Sample ID: CV1336A-CSD**

**Lab Sample ID: 680-89791-11**

Date Collected: 04/24/13 09:20

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 83.0

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
<b>Acenaphthylene</b>	<b>18</b>	<b>J</b>	48	6.0	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
<b>Anthracene</b>	<b>25</b>		10	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
<b>Benzo[a]anthracene</b>	<b>97</b>		9.6	4.7	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
<b>Benzo[a]pyrene</b>	<b>110</b>		13	6.3	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
<b>Benzo[b]fluoranthene</b>	<b>190</b>		15	7.4	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
<b>Benzo[g,h,i]perylene</b>	<b>76</b>		24	5.3	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
<b>Benzo[k]fluoranthene</b>	<b>49</b>		9.6	4.3	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
<b>Chrysene</b>	<b>140</b>		11	5.4	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
<b>Dibenz(a,h)anthracene</b>	<b>17</b>	<b>J</b>	24	4.9	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
<b>Fluoranthene</b>	<b>150</b>		24	4.8	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
<b>Fluorene</b>	<b>5.5</b>	<b>J</b>	24	4.9	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>75</b>		24	8.6	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
<b>1-Methylnaphthalene</b>	<b>41</b>	<b>J</b>	48	5.3	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
<b>2-Methylnaphthalene</b>	<b>52</b>		48	8.6	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
<b>Naphthalene</b>	<b>47</b>	<b>J</b>	48	5.3	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
<b>Phenanthrene</b>	<b>95</b>		9.6	4.7	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
<b>Pyrene</b>	<b>110</b>		24	4.5	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	58		30 - 130				04/29/13 14:27	05/01/13 20:03	1

**Client Sample ID: CV1336B-CS**

**Lab Sample ID: 680-89791-12**

Date Collected: 04/24/13 09:30

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 77.4

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
<b>Acenaphthylene</b>	<b>40</b>	<b>J</b>	51	6.4	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
<b>Anthracene</b>	<b>60</b>		11	5.4	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
<b>Benzo[a]anthracene</b>	<b>190</b>		10	5.0	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
<b>Benzo[a]pyrene</b>	<b>190</b>		13	6.7	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
<b>Benzo[b]fluoranthene</b>	<b>290</b>		16	7.8	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
<b>Benzo[g,h,i]perylene</b>	<b>120</b>		26	5.7	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
<b>Benzo[k]fluoranthene</b>	<b>140</b>		10	4.6	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
<b>Chrysene</b>	<b>240</b>		12	5.8	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
<b>Dibenz(a,h)anthracene</b>	<b>48</b>		26	5.3	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
<b>Fluoranthene</b>	<b>340</b>		26	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
<b>Fluorene</b>	<b>15</b>	<b>J</b>	26	5.3	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>130</b>		26	9.1	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
<b>1-Methylnaphthalene</b>	<b>77</b>		51	5.7	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
<b>2-Methylnaphthalene</b>	<b>94</b>		51	9.1	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
<b>Naphthalene</b>	<b>85</b>		51	5.7	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
<b>Phenanthrene</b>	<b>230</b>		10	5.0	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
<b>Pyrene</b>	<b>230</b>		26	4.8	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	61		30 - 130				04/29/13 14:27	05/01/13 20:18	1

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTTE, October 2012)

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

**Client Sample ID: CV0790A-CS-SP**

**Lab Sample ID: 680-89791-13**

Date Collected: 04/24/13 13:41

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 74.5

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Acenaphthylene</b>	<b>46</b>	<b>J</b>	210	27	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Anthracene</b>	<b>71</b>		45	23	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Benzo[a]anthracene</b>	<b>230</b>		43	21	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Benzo[a]pyrene</b>	<b>160</b>		56	28	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Benzo[b]fluoranthene</b>	<b>280</b>		66	33	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Benzo[g,h,i]perylene</b>	<b>110</b>		110	24	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Benzo[k]fluoranthene</b>	<b>82</b>		43	19	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Chrysene</b>	<b>270</b>		48	24	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Dibenz(a,h)anthracene</b>	<b>32</b>	<b>J</b>	110	22	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Fluoranthene</b>	<b>310</b>		110	21	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Fluorene</b>	<b>29</b>	<b>J</b>	110	22	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>95</b>	<b>J</b>	110	38	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>1-Methylnaphthalene</b>	<b>340</b>		210	24	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>2-Methylnaphthalene</b>	<b>370</b>		210	38	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Naphthalene</b>	<b>320</b>		210	24	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Phenanthrene</b>	<b>390</b>		43	21	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Pyrene</b>	<b>220</b>		110	20	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	51		30 - 130				04/29/13 14:27	05/01/13 20:33	4

**Client Sample ID: CV0790B-CS-SP**

**Lab Sample ID: 680-89791-14**

Date Collected: 04/24/13 13:52

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 73.1

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	550	U	550	110	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Acenaphthylene</b>	<b>62</b>	<b>J</b>	220	27	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Anthracene</b>	<b>95</b>		46	23	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Benzo[a]anthracene</b>	<b>210</b>		44	21	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Benzo[a]pyrene</b>	<b>160</b>		57	28	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Benzo[b]fluoranthene</b>	<b>260</b>		67	33	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Benzo[g,h,i]perylene</b>	<b>95</b>	<b>J</b>	110	24	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Benzo[k]fluoranthene</b>	<b>140</b>		44	20	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Chrysene</b>	<b>230</b>		49	25	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
Dibenz(a,h)anthracene	110	U	110	22	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Fluoranthene</b>	<b>250</b>		110	22	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Fluorene</b>	<b>24</b>	<b>J</b>	110	22	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>91</b>	<b>J</b>	110	39	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>1-Methylnaphthalene</b>	<b>180</b>	<b>J</b>	220	24	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>2-Methylnaphthalene</b>	<b>180</b>	<b>J</b>	220	39	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Naphthalene</b>	<b>130</b>	<b>J</b>	220	24	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Phenanthrene</b>	<b>220</b>		44	21	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Pyrene</b>	<b>180</b>		110	20	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	47		30 - 130				04/29/13 14:27	05/01/13 20:48	4

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTTE, October 2012)

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

**Client Sample ID: CV0790C-CS-SP**

**Lab Sample ID: 680-89791-15**

Date Collected: 04/24/13 13:54

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 74.2

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Acenaphthylene	54		54	6.7	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Anthracene	76		11	5.6	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Benzo[a]anthracene	170		11	5.2	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Benzo[a]pyrene	170		14	7.0	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Benzo[b]fluoranthene	300		16	8.2	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Benzo[g,h,i]perylene	160		27	5.9	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Benzo[k]fluoranthene	90		11	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Chrysene	260		12	6.0	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Dibenz(a,h)anthracene	48		27	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Fluoranthene	270		27	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Fluorene	26	J	27	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Indeno[1,2,3-cd]pyrene	140		27	9.5	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
1-Methylnaphthalene	180		54	5.9	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
2-Methylnaphthalene	220		54	9.5	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Naphthalene	170		54	5.9	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Phenanthrene	350		11	5.2	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Pyrene	280		27	5.0	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	50		30 - 130				04/30/13 14:42	05/02/13 17:57	1

**Client Sample ID: CV0121A-CS-SP**

**Lab Sample ID: 680-89791-18**

Date Collected: 04/25/13 10:58

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 73.9

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Acenaphthylene	220	U	220	27	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Anthracene	67		46	23	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Benzo[a]anthracene	270		43	21	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Benzo[a]pyrene	160		56	28	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Benzo[b]fluoranthene	290		66	33	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Benzo[g,h,i]perylene	160		110	24	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Benzo[k]fluoranthene	110		43	20	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Chrysene	300		49	24	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Dibenz(a,h)anthracene	46	J	110	22	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Fluoranthene	270		110	22	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Fluorene	27	J	110	22	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Indeno[1,2,3-cd]pyrene	130		110	39	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
1-Methylnaphthalene	240		220	24	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
2-Methylnaphthalene	300		220	39	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Naphthalene	220		220	24	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Phenanthrene	380		43	21	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Pyrene	310		110	20	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	45		30 - 130				04/30/13 14:42	05/02/13 18:12	4

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTPE, October 2012)

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

**Client Sample ID: CV0121B-CS-SP**

**Lab Sample ID: 680-89791-19**

Date Collected: 04/25/13 11:12

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 71.6

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Acenaphthylene</b>	<b>36</b>	<b>J</b>	56	7.0	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Anthracene</b>	<b>57</b>		12	5.9	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Benzo[a]anthracene</b>	<b>160</b>		11	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Benzo[a]pyrene</b>	<b>130</b>		15	7.3	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Benzo[b]fluoranthene</b>	<b>210</b>		17	8.6	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Benzo[g,h,i]perylene</b>	<b>99</b>		28	6.2	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Benzo[k]fluoranthene</b>	<b>85</b>		11	5.0	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Chrysene</b>	<b>210</b>		13	6.3	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Dibenz(a,h)anthracene</b>	<b>36</b>		28	5.7	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Fluoranthene</b>	<b>190</b>		28	5.6	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Fluorene</b>	<b>19</b>	<b>J</b>	28	5.7	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>86</b>		28	10	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>1-Methylnaphthalene</b>	<b>320</b>		56	6.2	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>2-Methylnaphthalene</b>	<b>340</b>		56	10	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Naphthalene</b>	<b>250</b>		56	6.2	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Phenanthrene</b>	<b>300</b>		11	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Pyrene</b>	<b>200</b>		28	5.2	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	43		30 - 130				04/30/13 14:42	05/02/13 18:27	1

**Client Sample ID: CV0752A-CS-SP**

**Lab Sample ID: 680-89791-20**

Date Collected: 04/25/13 09:00

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 90.7

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Acenaphthylene</b>	<b>6.3</b>	<b>J</b>	44	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Anthracene</b>	<b>11</b>		9.3	4.6	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Benzo[a]anthracene</b>	<b>40</b>		8.8	4.3	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Benzo[a]pyrene</b>	<b>31</b>		11	5.7	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Benzo[b]fluoranthene</b>	<b>54</b>		13	6.7	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Benzo[g,h,i]perylene</b>	<b>41</b>		22	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Benzo[k]fluoranthene</b>	<b>26</b>		8.8	4.0	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Chrysene</b>	<b>47</b>		9.9	5.0	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Dibenz(a,h)anthracene</b>	<b>7.1</b>	<b>J</b>	22	4.5	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Fluoranthene</b>	<b>42</b>		22	4.4	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
Fluorene	22	U	22	4.5	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>35</b>		22	7.8	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>1-Methylnaphthalene</b>	<b>15</b>	<b>J</b>	44	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>2-Methylnaphthalene</b>	<b>22</b>	<b>J</b>	44	7.8	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Naphthalene</b>	<b>20</b>	<b>J</b>	44	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Phenanthrene</b>	<b>37</b>		8.8	4.3	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Pyrene</b>	<b>48</b>		22	4.1	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	42		30 - 130				04/30/13 14:42	05/02/13 18:42	1

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTTE, October 2012)

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

**Client Sample ID: CV0752B-CS-SP**

**Lab Sample ID: 680-89791-21**

Date Collected: 04/25/13 09:13

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 80.8

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	99	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Acenaphthylene</b>	<b>110</b>	<b>J</b>	200	25	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Anthracene</b>	<b>160</b>		42	21	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Benzo[a]anthracene</b>	<b>430</b>		40	19	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Benzo[a]pyrene</b>	<b>410</b>		51	26	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Benzo[b]fluoranthene</b>	<b>710</b>		60	30	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Benzo[g,h,i]perylene</b>	<b>370</b>		99	22	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Benzo[k]fluoranthene</b>	<b>360</b>		40	18	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Chrysene</b>	<b>520</b>		45	22	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Dibenz(a,h)anthracene</b>	<b>140</b>		99	20	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Fluoranthene</b>	<b>450</b>		99	20	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Fluorene</b>	<b>43</b>	<b>J</b>	99	20	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>360</b>		99	35	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>1-Methylnaphthalene</b>	<b>240</b>		200	22	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>2-Methylnaphthalene</b>	<b>240</b>		200	35	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Naphthalene</b>	<b>260</b>		200	22	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Phenanthrene</b>	<b>510</b>		40	19	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Pyrene</b>	<b>480</b>		99	18	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	61		30 - 130				04/30/13 14:42	05/02/13 18:57	4

**Client Sample ID: CV1312A-CS-SP**

**Lab Sample ID: 680-89791-23**

Date Collected: 04/25/13 09:50

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 81.0

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Acenaphthylene</b>	<b>26</b>	<b>J</b>	49	6.2	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Anthracene</b>	<b>78</b>		10	5.2	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Benzo[a]anthracene</b>	<b>300</b>		9.9	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Benzo[a]pyrene</b>	<b>270</b>		13	6.4	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Benzo[b]fluoranthene</b>	<b>420</b>		15	7.5	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Benzo[g,h,i]perylene</b>	<b>210</b>		25	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Benzo[k]fluoranthene</b>	<b>190</b>		9.9	4.5	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Chrysene</b>	<b>400</b>		11	5.6	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Dibenz(a,h)anthracene</b>	<b>77</b>		25	5.1	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Fluoranthene</b>	<b>400</b>		25	4.9	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Fluorene</b>	<b>20</b>	<b>J</b>	25	5.1	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>200</b>		25	8.8	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>1-Methylnaphthalene</b>	<b>150</b>		49	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>2-Methylnaphthalene</b>	<b>180</b>		49	8.8	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Naphthalene</b>	<b>140</b>		49	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Phenanthrene</b>	<b>350</b>		9.9	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Pyrene</b>	<b>340</b>		25	4.6	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	58		30 - 130				04/30/13 14:42	05/02/13 19:57	1

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTTE, October 2012)

TestAmerica Savannah

## ANALYTICAL REPORT

Job Number: 680-89791-1

SDG Number: 68089791-1

Job Description: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC  
1220 Kennestone Circle  
Suite 106  
Marietta, GA 30060

Attention: Ms. Limari F Krebs



Approved for release.  
Bernard Kirkland  
Project Manager I  
5/8/2013 2:56 PM

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Designee for  
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Project Manager II  
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05/08/2013

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

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## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-89791-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

### RECEIPT

The samples were received on 04/27/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.4° C and 2.8° C.

### SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples HP0200A-CS-SP (680-89791-1), HP0200B-CS-SP (680-89791-2), HP0232A-CS-SP (680-89791-3), HP0232B-CS-SP (680-89791-4), HP0288A-CS-SP (680-89791-5), CV1342A-CS-SP (680-89791-6), CV1342B-CS-SP (680-89791-7), CV1116A-CS (680-89791-8), CV1116B-CS (680-89791-9), CV1336A-CS (680-89791-10), CV1336A-CSD (680-89791-11), CV1336B-CS (680-89791-12), CV0790A-CS-SP (680-89791-13), CV0790B-CS-SP (680-89791-14), CV0790C-CS-SP (680-89791-15), CV0121A-CS-SP (680-89791-18), CV0121B-CS-SP (680-89791-19), CV0752A-CS-SP (680-89791-20), CV0752B-CS-SP (680-89791-21) and CV1312A-CS-SP (680-89791-23) were analyzed for Semivolatile Organic Compounds by GCMS -Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/29/2013, 04/30/2013 and 05/06/2013 and analyzed on 04/30/2013, 05/01/2013, 05/02/2013 and 05/06/2013.

Samples CV1342B-CS-SP (680-89791-7)[4X], CV1116A-CS (680-89791-8)[4X], CV0790A-CS-SP (680-89791-13)[4X], CV0790B-CS-SP (680-89791-14)[4X], CV0121A-CS-SP (680-89791-18)[4X] and CV0752B-CS-SP (680-89791-21)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

o-Terphenyl recovered outside the surrogate recovery criteria for HP0200B-CS-SP (680-89791-2) and its associated MS/MSD.

Benzo[a]pyrene, Chrysene, Fluoranthene and Pyrene recovered outside the recovery criteria for the MSD of sample 680-89695-21 in batch 660-137001. Fluoranthene and Pyrene exceeded the rpd limit.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample HP0200B-CS-SP (680-89791-2) in batch 660-136977. Several analytes also exceeded the rpd limit.

Benzo[a]pyrene recovered outside the recovery criteria for the MSD of sample 680-89791-22 in batch 660-137070.

Several analytes recovered outside the recovery criteria for the MSD of sample 680-89985-3 in batch 660-137156. Several analytes also exceeded the rpd limit.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

## SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89791-1

Sdg Number: 68089791-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
680-89791-1	HP0200A-CS-SP	Solid	04/24/2013 1017	04/27/2013 0825
680-89791-2	HP0200B-CS-SP	Solid	04/24/2013 1030	04/27/2013 0825
680-89791-2MS	HP0200B-CS-SP	Solid	04/24/2013 1030	04/27/2013 0825
680-89791-2MSD	HP0200B-CS-SP	Solid	04/24/2013 1030	04/27/2013 0825
680-89791-3	HP0232A-CS-SP	Solid	04/24/2013 0927	04/27/2013 0825
680-89791-4	HP0232B-CS-SP	Solid	04/24/2013 0941	04/27/2013 0825
680-89791-5	HP0288A-CS-SP	Solid	04/24/2013 0856	04/27/2013 0825
680-89791-6	CV1342A-CS-SP	Solid	04/24/2013 1120	04/27/2013 0825
680-89791-7	CV1342B-CS-SP	Solid	04/24/2013 1127	04/27/2013 0825
680-89791-8	CV1116A-CS	Solid	04/24/2013 1025	04/27/2013 0825
680-89791-9	CV1116B-CS	Solid	04/24/2013 1025	04/27/2013 0825
680-89791-10	CV1336A-CS	Solid	04/24/2013 0920	04/27/2013 0825
680-89791-11	CV1336A-CSD	Solid	04/24/2013 0920	04/27/2013 0825
680-89791-12	CV1336B-CS	Solid	04/24/2013 0930	04/27/2013 0825
680-89791-13	CV0790A-CS-SP	Solid	04/24/2013 1341	04/27/2013 0825
680-89791-14	CV0790B-CS-SP	Solid	04/24/2013 1352	04/27/2013 0825
680-89791-15	CV0790C-CS-SP	Solid	04/24/2013 1354	04/27/2013 0825
680-89791-18	CV0121A-CS-SP	Solid	04/25/2013 1058	04/27/2013 0825
680-89791-19	CV0121B-CS-SP	Solid	04/25/2013 1112	04/27/2013 0825
680-89791-20	CV0752A-CS-SP	Solid	04/25/2013 0900	04/27/2013 0825
680-89791-21	CV0752B-CS-SP	Solid	04/25/2013 0913	04/27/2013 0825
680-89791-23	CV1312A-CS-SP	Solid	04/25/2013 0950	04/27/2013 0825

## METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89791-1  
Sdg Number: 68089791-1

<b>Description</b>	<b>Lab Location</b>	<b>Method</b>	<b>Preparation Method</b>
<b>Matrix: Solid</b>			
Semivolatile Organic Compounds by GCMS - Low Levels	TAL TAM	SW846 8270C LL	
Microwave Extraction	TAL TAM		SW846 3546
Percent Moisture	TAL TAM	EPA Moisture	

### Lab References:

TAL TAM = TestAmerica Tampa

### Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89791-1

Sdg Number: 68089791-1

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
SW846 8270C LL	Cantin, Stephen C	SCC
EPA Moisture	Galio, Andrew	AG

## DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89791-1

Sdg Number: 68089791-1

<b>Lab Section</b>	<b>Qualifier</b>	<b>Description</b>
GC/MS Semi VOA	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	F	RPD of the MS and MSD exceeds the control limits
	X	Surrogate is outside control limits

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89791-1

Sdg Number: 68089791-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>GC/MS Semi VOA</b>					
<b>Prep Batch: 660-136938</b>					
LCS 660-136938/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136938/1-A	Method Blank	T	Solid	3546	
680-89695-A-21-B MS	Matrix Spike	T	Solid	3546	
680-89695-A-21-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-89791-3	HP0232A-CS-SP	T	Solid	3546	
680-89791-4	HP0232B-CS-SP	T	Solid	3546	
680-89791-5	HP0288A-CS-SP	T	Solid	3546	
680-89791-6	CV1342A-CS-SP	T	Solid	3546	
680-89791-7	CV1342B-CS-SP	T	Solid	3546	
680-89791-8	CV1116A-CS	T	Solid	3546	
680-89791-9	CV1116B-CS	T	Solid	3546	
680-89791-10	CV1336A-CS	T	Solid	3546	
680-89791-11	CV1336A-CSD	T	Solid	3546	
680-89791-12	CV1336B-CS	T	Solid	3546	
680-89791-13	CV0790A-CS-SP	T	Solid	3546	
680-89791-14	CV0790B-CS-SP	T	Solid	3546	
<b>Prep Batch: 660-136958</b>					
LCS 660-136958/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136958/1-A	Method Blank	T	Solid	3546	
680-89791-2	HP0200B-CS-SP	T	Solid	3546	
680-89791-2MS	Matrix Spike	T	Solid	3546	
680-89791-2MSD	Matrix Spike Duplicate	T	Solid	3546	
<b>Prep Batch: 660-136975</b>					
LCS 660-136975/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136975/1-A	Method Blank	T	Solid	3546	
680-89791-15	CV0790C-CS-SP	T	Solid	3546	
680-89791-18	CV0121A-CS-SP	T	Solid	3546	
680-89791-19	CV0121B-CS-SP	T	Solid	3546	
680-89791-20	CV0752A-CS-SP	T	Solid	3546	
680-89791-21	CV0752B-CS-SP	T	Solid	3546	
680-89791-A-22-B MS	Matrix Spike	T	Solid	3546	
680-89791-A-22-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-89791-23	CV1312A-CS-SP	T	Solid	3546	
<b>Analysis Batch:660-136977</b>					
LCS 660-136958/2-A	Lab Control Sample	T	Solid	8270C LL	660-136958
MB 660-136958/1-A	Method Blank	T	Solid	8270C LL	660-136958
680-89791-2	HP0200B-CS-SP	T	Solid	8270C LL	660-136958
680-89791-2MS	Matrix Spike	T	Solid	8270C LL	660-136958
680-89791-2MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136958



## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89791-1

Sdg Number: 68089791-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>GC/MS Semi VOA</b>					
<b>Analysis Batch:660-137001</b>					
LCS 660-136938/2-A	Lab Control Sample	T	Solid	8270C LL	660-136938
MB 660-136938/1-A	Method Blank	T	Solid	8270C LL	660-136938
680-89695-A-21-B MS	Matrix Spike	T	Solid	8270C LL	660-136938
680-89695-A-21-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136938
680-89791-3	HP0232A-CS-SP	T	Solid	8270C LL	660-136938
680-89791-4	HP0232B-CS-SP	T	Solid	8270C LL	660-136938
680-89791-5	HP0288A-CS-SP	T	Solid	8270C LL	660-136938
680-89791-6	CV1342A-CS-SP	T	Solid	8270C LL	660-136938
680-89791-7	CV1342B-CS-SP	T	Solid	8270C LL	660-136938
680-89791-8	CV1116A-CS	T	Solid	8270C LL	660-136938
680-89791-9	CV1116B-CS	T	Solid	8270C LL	660-136938
680-89791-10	CV1336A-CS	T	Solid	8270C LL	660-136938
680-89791-11	CV1336A-CSD	T	Solid	8270C LL	660-136938
680-89791-12	CV1336B-CS	T	Solid	8270C LL	660-136938
680-89791-13	CV0790A-CS-SP	T	Solid	8270C LL	660-136938
680-89791-14	CV0790B-CS-SP	T	Solid	8270C LL	660-136938
<b>Analysis Batch:660-137070</b>					
LCS 660-136975/2-A	Lab Control Sample	T	Solid	8270C LL	660-136975
MB 660-136975/1-A	Method Blank	T	Solid	8270C LL	660-136975
680-89791-15	CV0790C-CS-SP	T	Solid	8270C LL	660-136975
680-89791-18	CV0121A-CS-SP	T	Solid	8270C LL	660-136975
680-89791-19	CV0121B-CS-SP	T	Solid	8270C LL	660-136975
680-89791-20	CV0752A-CS-SP	T	Solid	8270C LL	660-136975
680-89791-21	CV0752B-CS-SP	T	Solid	8270C LL	660-136975
680-89791-A-22-B MS	Matrix Spike	T	Solid	8270C LL	660-136975
680-89791-A-22-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136975
680-89791-23	CV1312A-CS-SP	T	Solid	8270C LL	660-136975
<b>Prep Batch: 660-137132</b>					
LCS 660-137132/2-A	Lab Control Sample	T	Solid	3546	
MB 660-137132/1-A	Method Blank	T	Solid	3546	
680-89791-1	HP0200A-CS-SP	T	Solid	3546	
680-89985-A-3-B MS	Matrix Spike	T	Solid	3546	
680-89985-A-3-C MSD	Matrix Spike Duplicate	T	Solid	3546	
<b>Analysis Batch:660-137156</b>					
LCS 660-137132/2-A	Lab Control Sample	T	Solid	8270C LL	660-137132
MB 660-137132/1-A	Method Blank	T	Solid	8270C LL	660-137132
680-89791-1	HP0200A-CS-SP	T	Solid	8270C LL	660-137132
680-89985-A-3-B MS	Matrix Spike	T	Solid	8270C LL	660-137132
680-89985-A-3-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-137132

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89791-1

Sdg Number: 68089791-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Report Basis</b>					
T = Total					
<b>General Chemistry</b>					
<b>Analysis Batch:660-136953</b>					
680-89791-1	HP0200A-CS-SP	T	Solid	Moisture	
680-89791-2	HP0200B-CS-SP	T	Solid	Moisture	
680-89791-3	HP0232A-CS-SP	T	Solid	Moisture	
680-89791-4	HP0232B-CS-SP	T	Solid	Moisture	
680-89791-5	HP0288A-CS-SP	T	Solid	Moisture	
680-89791-6	CV1342A-CS-SP	T	Solid	Moisture	
680-89791-7	CV1342B-CS-SP	T	Solid	Moisture	
680-89791-8	CV1116A-CS	T	Solid	Moisture	
680-89791-9	CV1116B-CS	T	Solid	Moisture	
680-89791-10	CV1336A-CS	T	Solid	Moisture	
680-89791-11	CV1336A-CSD	T	Solid	Moisture	
680-89791-12	CV1336B-CS	T	Solid	Moisture	
680-89791-13	CV0790A-CS-SP	T	Solid	Moisture	
680-89791-14	CV0790B-CS-SP	T	Solid	Moisture	
680-89791-15	CV0790C-CS-SP	T	Solid	Moisture	
680-89791-18	CV0121A-CS-SP	T	Solid	Moisture	
680-89791-19	CV0121B-CS-SP	T	Solid	Moisture	
680-89791-20	CV0752A-CS-SP	T	Solid	Moisture	
680-89791-21	CV0752B-CS-SP	T	Solid	Moisture	
680-89791-A-22 MS	Matrix Spike	T	Solid	Moisture	
680-89791-A-22 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-89791-23	CV1312A-CS-SP	T	Solid	Moisture	
680-89791-A-41 MS	Matrix Spike	T	Solid	Moisture	
680-89791-A-41 MSD	Matrix Spike Duplicate	T	Solid	Moisture	

**Report Basis**

T = Total

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1SDG No.: 68089791-1Instrument ID: BSMA5973 Analysis Batch Number: 136892Lab Sample ID: IC 660-136892/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/26/13 10:03 Lab File ID: 1AD26003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	04/26/13 12:57
Indeno[1,2,3-cd]pyrene	8.42	Split Peak	cantins	04/26/13 12:51
Benzo[g,h,i]perylene	8.63	Baseline Event	cantins	04/26/13 12:51

Lab Sample ID: IC 660-136892/4 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/26/13 10:18 Lab File ID: 1AD26004.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	04/26/13 12:51
Indeno[1,2,3-cd]pyrene	8.41	Split Peak	cantins	04/26/13 12:52
Dibenz(a,h)anthracene	8.44	Baseline Event	cantins	04/26/13 12:52
Benzo[g,h,i]perylene	8.62	Baseline Event	cantins	04/26/13 12:52

Lab Sample ID: IC 660-136892/5 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/26/13 10:33 Lab File ID: 1AD26005.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	8.45	Baseline Event	cantins	04/26/13 12:53
Benzo[g,h,i]perylene	8.63	Baseline Event	cantins	04/26/13 12:53

Lab Sample ID: IC 660-136892/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/26/13 10:48 Lab File ID: 1AD26006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	8.45	Baseline Event	cantins	04/26/13 12:54
Benzo[g,h,i]perylene	8.64	Baseline Event	cantins	04/26/13 12:54

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1SDG No.: 68089791-1Instrument ID: BSMA5973 Analysis Batch Number: 136892Lab Sample ID: ICIS 660-136892/7 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/26/13 11:03 Lab File ID: 1AD26007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chrysene	6.60	Baseline Event	cantins	04/26/13 12:58

Lab Sample ID: IC 660-136892/8 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/26/13 11:19 Lab File ID: 1AD26008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chrysene	6.60	Baseline Event	cantins	04/26/13 12:56

Lab Sample ID: IC 660-136892/9 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/26/13 11:34 Lab File ID: 1AD26009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chrysene	6.61	Baseline Event	cantins	04/26/13 12:55
Benzo[k]fluoranthene	7.42	Baseline Event	cantins	04/26/13 12:55

Lab Sample ID: ICV 660-136892/10 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/26/13 11:49 Lab File ID: 1AD26010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	4.73	Baseline Event	cantins	04/26/13 13:06

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1SDG No.: 68089791-1Instrument ID: BSMA5973 Analysis Batch Number: 136977Lab Sample ID: 680-89791-2 Client Sample ID: HP0200B-CS-SPDate Analyzed: 04/30/13 16:12 Lab File ID: 1AD30020.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	2.61	Baseline Event	cantins	04/30/13 16:36
Chrysene	6.60	Baseline Event	cantins	04/30/13 16:35
Benzo[b]fluoranthene	7.40	Split Peak	cantins	04/30/13 16:34

Lab Sample ID: 680-89791-2 MS Client Sample ID: HP0200B-CS-SP MSDate Analyzed: 04/30/13 16:27 Lab File ID: 1AD30021.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	2.60	Baseline Event	cantins	04/30/13 16:39
Indeno[1,2,3-cd]pyrene	8.44	Split Peak	cantins	04/30/13 16:39

Lab Sample ID: 680-89791-2 MSD Client Sample ID: HP0200B-CS-SP MSDDate Analyzed: 04/30/13 16:42 Lab File ID: 1AD30022.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	2.62	Baseline Event	cantins	04/30/13 16:57
Acenaphthylene	3.51	Analyte not Identified by the Data System	cantins	04/30/13 16:57
Chrysene	6.59	Baseline Event	cantins	04/30/13 16:57
Indeno[1,2,3-cd]pyrene	8.43	Split Peak	cantins	04/30/13 16:58

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1SDG No.: 68089791-1Instrument ID: BSMA5973 Analysis Batch Number: 137001Lab Sample ID: LCS 660-136938/2-A Client Sample ID: \_\_\_\_\_Date Analyzed: 05/01/13 15:02 Lab File ID: 1AE01009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.41	Split Peak	cantins	05/01/13 15:33

Lab Sample ID: 680-89695-A-21-B MS Client Sample ID: \_\_\_\_\_Date Analyzed: 05/01/13 15:47 Lab File ID: 1AE01012.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.43	Split Peak	cantins	05/01/13 16:00

Lab Sample ID: 680-89695-A-21-C MSD Client Sample ID: \_\_\_\_\_Date Analyzed: 05/01/13 16:02 Lab File ID: 1AE01013.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.44	Split Peak	cantins	05/01/13 16:21

Lab Sample ID: 680-89791-3 Client Sample ID: HP0232A-CS-SPDate Analyzed: 05/01/13 18:03 Lab File ID: 1AE01021.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.40	Split Peak	cantins	05/05/13 17:06
Benzo[k]fluoranthene	7.41	Baseline Event	cantins	05/05/13 17:06
Indeno[1,2,3-cd]pyrene	8.46	Split Peak	cantins	05/05/13 17:07

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1SDG No.: 68089791-1Instrument ID: BSMA5973 Analysis Batch Number: 137001Lab Sample ID: 680-89791-4 Client Sample ID: HP0232B-CS-SPDate Analyzed: 05/01/13 18:18 Lab File ID: 1AE01022.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.40	Split Peak	cantins	05/05/13 17:08
Benzo[k]fluoranthene	7.41	Baseline Event	cantins	05/05/13 17:08
Indeno[1,2,3-cd]pyrene	8.47	Split Peak	cantins	05/05/13 17:08

Lab Sample ID: 680-89791-5 Client Sample ID: HP0288A-CS-SPDate Analyzed: 05/01/13 18:33 Lab File ID: 1AE01023.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.40	Split Peak	cantins	05/05/13 17:09
Benzo[k]fluoranthene	7.41	Baseline Event	cantins	05/05/13 17:09
Indeno[1,2,3-cd]pyrene	8.46	Split Peak	cantins	05/05/13 17:10

Lab Sample ID: 680-89791-6 Client Sample ID: CV1342A-CS-SPDate Analyzed: 05/01/13 18:48 Lab File ID: 1AE01024.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.42	Split Peak	cantins	05/05/13 17:10
Benzo[k]fluoranthene	7.43	Baseline Event	cantins	05/05/13 17:10
Indeno[1,2,3-cd]pyrene	8.50	Split Peak	cantins	05/05/13 17:11

Lab Sample ID: 680-89791-7 Client Sample ID: CV1342B-CS-SPDate Analyzed: 05/01/13 19:03 Lab File ID: 1AE01025.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.41	Split Peak	cantins	05/05/13 17:11
Benzo[k]fluoranthene	7.42	Baseline Event	cantins	05/05/13 17:12
Indeno[1,2,3-cd]pyrene	8.46	Split Peak	cantins	05/05/13 17:12

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1SDG No.: 68089791-1Instrument ID: BSMA5973 Analysis Batch Number: 137001Lab Sample ID: 680-89791-8 Client Sample ID: CV1116A-CSDate Analyzed: 05/01/13 19:18 Lab File ID: 1AE01026.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthylene	3.51	Analyte not Identified by the Data System	cantins	05/05/13 17:13
Benzo[b]fluoranthene	7.40	Split Peak	cantins	05/05/13 17:13
Benzo[k]fluoranthene	7.42	Baseline Event	cantins	05/05/13 17:13
Indeno[1,2,3-cd]pyrene	8.46	Split Peak	cantins	05/05/13 17:14

Lab Sample ID: 680-89791-9 Client Sample ID: CV1116B-CSDate Analyzed: 05/01/13 19:33 Lab File ID: 1AE01027.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.41	Split Peak	cantins	05/05/13 18:36
Benzo[k]fluoranthene	7.42	Baseline Event	cantins	05/05/13 18:37
Indeno[1,2,3-cd]pyrene	8.47	Split Peak	cantins	05/05/13 18:37

Lab Sample ID: 680-89791-10 Client Sample ID: CV1336A-CSDate Analyzed: 05/01/13 19:48 Lab File ID: 1AE01028.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.41	Split Peak	cantins	05/05/13 18:38
Benzo[k]fluoranthene	7.42	Baseline Event	cantins	05/05/13 18:38
Indeno[1,2,3-cd]pyrene	8.48	Split Peak	cantins	05/05/13 18:38



## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1SDG No.: 68089791-1Instrument ID: BSMA5973 Analysis Batch Number: 137001Lab Sample ID: 680-89791-11 Client Sample ID: CV1336A-CSDDate Analyzed: 05/01/13 20:03 Lab File ID: 1AE01029.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.41	Split Peak	cantins	05/05/13 18:39
Benzo[k]fluoranthene	7.43	Baseline Event	cantins	05/05/13 18:39
Indeno[1,2,3-cd]pyrene	8.48	Split Peak	cantins	05/05/13 18:40

Lab Sample ID: 680-89791-12 Client Sample ID: CV1336B-CSDate Analyzed: 05/01/13 20:18 Lab File ID: 1AE01030.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.42	Split Peak	cantins	05/05/13 18:41
Benzo[k]fluoranthene	7.43	Baseline Event	cantins	05/05/13 18:41
Indeno[1,2,3-cd]pyrene	8.49	Split Peak	cantins	05/05/13 18:41

Lab Sample ID: 680-89791-13 Client Sample ID: CV0790A-CS-SPDate Analyzed: 05/01/13 20:33 Lab File ID: 1AE01031.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.42	Split Peak	cantins	05/05/13 18:42
Benzo[k]fluoranthene	7.43	Baseline Event	cantins	05/05/13 18:42
Indeno[1,2,3-cd]pyrene	8.50	Split Peak	cantins	05/05/13 18:43
Benzo[g,h,i]perylene	8.73	Baseline Event	cantins	05/05/13 18:43

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1SDG No.: 68089791-1Instrument ID: BSMA5973 Analysis Batch Number: 137001Lab Sample ID: 680-89791-14 Client Sample ID: CV0790B-CS-SPDate Analyzed: 05/01/13 20:48 Lab File ID: 1AE01032.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluorene	3.94	Analyte Misidentified by the Data System	cantins	05/05/13 18:43
Benzo[b]fluoranthene	7.42	Split Peak	cantins	05/05/13 18:44
Benzo[k]fluoranthene	7.42	Baseline Event	cantins	05/05/13 18:44

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1SDG No.: 68089791-1Instrument ID: BSMA5973 Analysis Batch Number: 137070Lab Sample ID: CCVIS 660-137070/7 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/02/13 16:18 Lab File ID: 1AE02006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[g,h,i]perylene	8.62	Baseline Event	cantins	05/02/13 16:37

Lab Sample ID: LCS 660-136975/2-A Client Sample ID: \_\_\_\_\_Date Analyzed: 05/02/13 17:26 Lab File ID: 1AE02010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.39	Split Peak	cantins	05/03/13 10:25

Lab Sample ID: 680-89791-15 Client Sample ID: CV0790C-CS-SPDate Analyzed: 05/02/13 17:57 Lab File ID: 1AE02012.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.36	Split Peak	cantins	05/03/13 10:28
Benzo[k]fluoranthene	7.38	Baseline Event	cantins	05/03/13 10:29
Indeno[1,2,3-cd]pyrene	8.40	Split Peak	cantins	05/03/13 10:29

Lab Sample ID: 680-89791-18 Client Sample ID: CV0121A-CS-SPDate Analyzed: 05/02/13 18:12 Lab File ID: 1AE02013.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.36	Split Peak	cantins	05/03/13 10:29
Benzo[k]fluoranthene	7.37	Baseline Event	cantins	05/03/13 10:30
Benzo[g,h,i]perylene	8.61	Baseline Event	cantins	05/03/13 10:30

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1SDG No.: 68089791-1Instrument ID: BSMA5973 Analysis Batch Number: 137070Lab Sample ID: 680-89791-19 Client Sample ID: CV0121B-CS-SPDate Analyzed: 05/02/13 18:27 Lab File ID: 1AE02014.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.37	Split Peak	cantins	05/03/13 10:31
Benzo[k]fluoranthene	7.38	Baseline Event	cantins	05/03/13 10:33
Indeno[1,2,3-cd]pyrene	8.40	Split Peak	cantins	05/03/13 10:34

Lab Sample ID: 680-89791-20 Client Sample ID: CV0752A-CS-SPDate Analyzed: 05/02/13 18:42 Lab File ID: 1AE02015.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthylene	3.50	Analyte not Identified by the Data System	cantins	05/03/13 10:34
Benzo[b]fluoranthene	7.37	Split Peak	cantins	05/03/13 10:34
Benzo[k]fluoranthene	7.38	Baseline Event	cantins	05/03/13 10:35
Indeno[1,2,3-cd]pyrene	8.40	Split Peak	cantins	05/03/13 10:35

Lab Sample ID: 680-89791-21 Client Sample ID: CV0752B-CS-SPDate Analyzed: 05/02/13 18:57 Lab File ID: 1AE02016.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.37	Split Peak	cantins	05/03/13 10:35
Benzo[k]fluoranthene	7.38	Baseline Event	cantins	05/03/13 10:36
Indeno[1,2,3-cd]pyrene	8.41	Split Peak	cantins	05/03/13 10:42

Lab Sample ID: 680-89791-A-22-B MS Client Sample ID: \_\_\_\_\_Date Analyzed: 05/02/13 19:27 Lab File ID: 1AE02018.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.40	Split Peak	cantins	05/03/13 10:47

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1

SDG No.: 68089791-1

Instrument ID: BSMA5973 Analysis Batch Number: 137070

Lab Sample ID: 680-89791-A-22-C MSD Client Sample ID: \_\_\_\_\_

Date Analyzed: 05/02/13 19:42 Lab File ID: 1AE02019.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.40	Split Peak	cantins	05/03/13 10:48

Lab Sample ID: 680-89791-23 Client Sample ID: CV1312A-CS-SP

Date Analyzed: 05/02/13 19:57 Lab File ID: 1AE02020.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.38	Split Peak	cantins	05/03/13 10:49
Benzo[k]fluoranthene	7.39	Baseline Event	cantins	05/03/13 10:49
Indeno[1,2,3-cd]pyrene	8.43	Split Peak	cantins	05/03/13 10:49

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1SDG No.: 68089791-1Instrument ID: BSMA5973 Analysis Batch Number: 137156Lab Sample ID: IC 660-137156/4 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/06/13 10:40 Lab File ID: 1AE06004.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Phenanthrene	4.53	Baseline Event	cantins	05/06/13 12:53
Fluoranthene	5.39	Baseline Event	cantins	05/06/13 12:53
Benzo[k]fluoranthene	7.35	Baseline Event	cantins	05/06/13 12:54
Benzo[g,h,i]perylene	8.58	Baseline Event	cantins	05/06/13 12:54

Lab Sample ID: IC 660-137156/5 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/06/13 10:56 Lab File ID: 1AE06005.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	4.70	Baseline Event	cantins	05/06/13 12:55
Chrysene	6.54	Baseline Event	cantins	05/06/13 12:55
Benzo[k]fluoranthene	7.36	Baseline Event	cantins	05/06/13 12:55
Indeno[1,2,3-cd]pyrene	8.36	Split Peak	cantins	05/06/13 12:56
Dibenz(a,h)anthracene	8.38	Baseline Event	cantins	05/06/13 12:55
Benzo[g,h,i]perylene	8.56	Baseline Event	cantins	05/06/13 12:55

Lab Sample ID: IC 660-137156/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/06/13 11:11 Lab File ID: 1AE06006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	4.70	Baseline Event	cantins	05/06/13 12:56
Indeno[1,2,3-cd]pyrene	8.36	Split Peak	cantins	05/06/13 12:57
Dibenz(a,h)anthracene	8.39	Baseline Event	cantins	05/06/13 12:57
Benzo[g,h,i]perylene	8.57	Baseline Event	cantins	05/06/13 12:57

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1SDG No.: 68089791-1Instrument ID: BSMA5973 Analysis Batch Number: 137156Lab Sample ID: IC 660-137156/7 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/06/13 11:26 Lab File ID: 1AE06007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.36	Split Peak	cantins	05/06/13 12:58
Benzo[g,h,i]perylene	8.58	Baseline Event	cantins	05/06/13 12:58

Lab Sample ID: IC 660-137156/9 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/06/13 11:56 Lab File ID: 1AE06009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Anthracene	4.57	Baseline Event	cantins	05/06/13 12:59

Lab Sample ID: LCS 660-137132/2-A Client Sample ID: \_\_\_\_\_Date Analyzed: 05/06/13 15:24 Lab File ID: 1AE06019.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.38	Split Peak	cantins	05/06/13 15:52

Lab Sample ID: 680-89985-A-3-B MS Client Sample ID: \_\_\_\_\_Date Analyzed: 05/06/13 16:56 Lab File ID: 1AE06025.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.40	Split Peak	cantins	05/07/13 13:56

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1SDG No.: 68089791-1Instrument ID: BSMA5973 Analysis Batch Number: 137156Lab Sample ID: 680-89985-A-3-C MSD Client Sample ID: \_\_\_\_\_Date Analyzed: 05/06/13 17:11 Lab File ID: 1AE06026.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.37	Split Peak	cantins	05/07/13 13:57
Benzo[k]fluoranthene	7.38	Baseline Event	cantins	05/07/13 13:57
Indeno[1,2,3-cd]pyrene	8.40	Split Peak	cantins	05/07/13 13:57

Lab Sample ID: 680-89791-1 Client Sample ID: HP0200A-CS-SPDate Analyzed: 05/06/13 21:43 Lab File ID: 1AE06044.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	2.59	Baseline Event	cantins	05/07/13 13:58
Benzo[a]anthracene	6.56	Split Peak	cantins	05/07/13 13:59
Chrysene	6.57	Baseline Event	cantins	05/07/13 13:59
Benzo[g,h,i]perylene	8.63	Baseline Event	cantins	05/07/13 14:00



# Method 8270C Low Level

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Semivolatile Organic Compounds  
(GC/MS) Low Level by Method 8270C

FORM II  
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa

Job No.: 680-89791-1

SDG No.: 68089791-1

Matrix: Solid

Level: Low

GC Column (1): DB-5MS ID: 250 (um)

Client Sample ID	Lab Sample ID	OTPH #
HP0200A-CS-SP	680-89791-1	38
HP0200B-CS-SP	680-89791-2	28 X
HP0232A-CS-SP	680-89791-3	46
HP0232B-CS-SP	680-89791-4	58
HP0288A-CS-SP	680-89791-5	51
CV1342A-CS-SP	680-89791-6	55
CV1342B-CS-SP	680-89791-7	50
CV1116A-CS	680-89791-8	50
CV1116B-CS	680-89791-9	36
CV1336A-CS	680-89791-10	56
CV1336A-CSD	680-89791-11	58
CV1336B-CS	680-89791-12	61
CV0790A-CS-SP	680-89791-13	51
CV0790B-CS-SP	680-89791-14	47
CV0790C-CS-SP	680-89791-15	50
CV0121A-CS-SP	680-89791-18	45
CV0121B-CS-SP	680-89791-19	43
CV0752A-CS-SP	680-89791-20	42
CV0752B-CS-SP	680-89791-21	61
CV1312A-CS-SP	680-89791-23	58
	MB 660-136938/1-A	84
	MB 660-136958/1-A	64
	MB 660-136975/1-A	57
	MB 660-137132/1-A	61
	LCS 660-136938/2-A	71
	LCS 660-136958/2-A	66
	LCS 660-136975/2-A	58
	LCS 660-137132/2-A	62
	680-89695-A-21-B MS	64
	680-89791-A-22-B MS	55

OTPH = o-Terphenyl

QC LIMITS  
30-130

# Column to be used to flag recovery values

FORM II 8270C LL

FORM II  
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa

Job No.: 680-89791-1

SDG No.: 68089791-1

Matrix: Solid

Level: Low

GC Column (1): DB-5MS ID: 250 (um)

Client Sample ID	Lab Sample ID	OTPH #
	680-89985-A-3-B MS	49
HP0200B-CS-SP MS	680-89791-2 MS	20 X
	680-89695-A-21-C MSD	62
	680-89791-A-22-C MSD	53
	680-89985-A-3-C MSD	37
HP0200B-CS-SP MSD	680-89791-2 MSD	14 X

OTPH = o-Terphenyl

QC LIMITS  
30-130

# Column to be used to flag recovery values

FORM II 8270C LL

FORM III  
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Matrix: Solid Level: Low Lab File ID: 1AE01009.D  
 Lab ID: LCS 660-136938/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	667	453	68	39-130	
Acenaphthylene	667	466	70	38-130	
Anthracene	667	487	73	37-130	
Benzo[a]anthracene	667	509	76	40-130	
Benzo[a]pyrene	667	496	74	49-130	
Benzo[b]fluoranthene	667	523	78	37-130	
Benzo[g,h,i]perylene	667	525	79	32-130	
Benzo[k]fluoranthene	667	516	77	32-130	
Chrysene	667	484	73	41-130	
Dibenz(a,h)anthracene	667	593	89	27-130	
Fluoranthene	667	524	79	40-130	
Fluorene	667	485	73	40-130	
Indeno[1,2,3-cd]pyrene	667	560	84	30-130	
1-Methylnaphthalene	667	530	79	31-130	
2-Methylnaphthalene	667	505	76	33-130	
Naphthalene	667	497	75	36-130	
Phenanthrene	667	471	71	42-130	
Pyrene	667	484	73	44-130	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1

SDG No.: 68089791-1

Matrix: Solid Level: Low Lab File ID: 1AD30009.D

Lab ID: LCS 660-136958/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	653	417	64	39-130	
Acenaphthylene	653	428	66	38-130	
Anthracene	653	414	63	37-130	
Benzo[a]anthracene	653	450	69	40-130	
Benzo[a]pyrene	653	427	65	49-130	
Benzo[b]fluoranthene	653	484	74	37-130	
Benzo[g,h,i]perylene	653	489	75	32-130	
Benzo[k]fluoranthene	653	420	64	32-130	
Chrysene	653	421	64	41-130	
Dibenz(a,h)anthracene	653	550	84	27-130	
Fluoranthene	653	443	68	40-130	
Fluorene	653	432	66	40-130	
Indeno[1,2,3-cd]pyrene	653	534	82	30-130	
1-Methylnaphthalene	653	472	72	31-130	
2-Methylnaphthalene	653	457	70	33-130	
Naphthalene	653	453	69	36-130	
Phenanthrene	653	415	64	42-130	
Pyrene	653	442	68	44-130	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Matrix: Solid Level: Low Lab File ID: 1AE02010.D  
 Lab ID: LCS 660-136975/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	667	324	49	39-130	
Acenaphthylene	667	331	50	38-130	
Anthracene	667	412	62	37-130	
Benzo[a]anthracene	667	393	59	40-130	
Benzo[a]pyrene	667	341	51	49-130	
Benzo[b]fluoranthene	667	352	53	37-130	
Benzo[g,h,i]perylene	667	343	51	32-130	
Benzo[k]fluoranthene	667	382	57	32-130	
Chrysene	667	356	53	41-130	
Dibenz(a,h)anthracene	667	413	62	27-130	
Fluoranthene	667	393	59	40-130	
Fluorene	667	371	56	40-130	
Indeno[1,2,3-cd]pyrene	667	353	53	30-130	
1-Methylnaphthalene	667	413	62	31-130	
2-Methylnaphthalene	667	396	59	33-130	
Naphthalene	667	391	59	36-130	
Phenanthrene	667	412	62	42-130	
Pyrene	667	372	56	44-130	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Matrix: Solid Level: Low Lab File ID: 1AE06019.D  
 Lab ID: LCS 660-137132/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	670	373	56	39-130	
Acenaphthylene	670	430	64	38-130	
Anthracene	670	428	64	37-130	
Benzo[a]anthracene	670	444	66	40-130	
Benzo[a]pyrene	670	356	53	49-130	
Benzo[b]fluoranthene	670	380	57	37-130	
Benzo[g,h,i]perylene	670	508	76	32-130	
Benzo[k]fluoranthene	670	357	53	32-130	
Chrysene	670	380	57	41-130	
Dibenz(a,h)anthracene	670	502	75	27-130	
Fluoranthene	670	432	64	40-130	
Fluorene	670	445	66	40-130	
Indeno[1,2,3-cd]pyrene	670	467	70	30-130	
1-Methylnaphthalene	670	439	66	31-130	
2-Methylnaphthalene	670	435	65	33-130	
Naphthalene	670	396	59	36-130	
Phenanthrene	670	409	61	42-130	
Pyrene	670	447	67	44-130	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Matrix: Solid Level: Low Lab File ID: 1AE01012.D  
 Lab ID: 680-89695-A-21-B MS Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	814	490 U	550	68	39-130	
Acenaphthylene	814	190 U	556	68	38-130	
Anthracene	814	56	646	72	37-130	
Benzo[a]anthracene	814	240	945	87	40-130	
Benzo[a]pyrene	814	210	799	72	49-130	
Benzo[b]fluoranthene	814	310	930	76	37-130	
Benzo[g,h,i]perylene	814	200	889	85	32-130	
Benzo[k]fluoranthene	814	140	709	70	32-130	
Chrysene	814	270	842	70	41-130	
Dibenz(a,h)anthracene	814	43 J	810	94	27-130	
Fluoranthene	814	410	1110	86	40-130	
Fluorene	814	23 J	599	71	40-130	
Indeno[1,2,3-cd]pyrene	814	190	949	94	30-130	
1-Methylnaphthalene	814	56 J	665	75	31-130	
2-Methylnaphthalene	814	69 J	671	74	33-130	
Naphthalene	814	58 J	677	76	36-130	
Phenanthrene	814	270	916	80	42-130	
Pyrene	814	380	1020	79	44-130	

# Column to be used to flag recovery and RPD values



FORM III  
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Matrix: Solid Level: Low Lab File ID: 1AE02018.D  
 Lab ID: 680-89791-A-22-B MS Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	784	470 U	358 J	46	39-130	
Acenaphthylene	784	190 U	342	44	38-130	
Anthracene	784	39 U	418	53	37-130	
Benzo[a]anthracene	784	61	509	57	40-130	
Benzo[a]pyrene	784	49 U	382	49	49-130	
Benzo[b]fluoranthene	784	50 J	447	51	37-130	
Benzo[g,h,i]perylene	784	35 J	398	46	32-130	
Benzo[k]fluoranthene	784	17 J	409	50	32-130	
Chrysene	784	51	437	49	41-130	
Dibenz(a,h)anthracene	784	94 U	488	62	27-130	
Fluoranthene	784	64 J	404	43	40-130	
Fluorene	784	94 U	404	52	40-130	
Indeno[1,2,3-cd]pyrene	784	94 U	443	57	30-130	
1-Methylnaphthalene	784	190 U	393	50	31-130	
2-Methylnaphthalene	784	190 U	382	49	33-130	
Naphthalene	784	22 J	356	43	36-130	
Phenanthrene	784	61	424	46	42-130	
Pyrene	784	59 J	427	47	44-130	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Matrix: Solid Level: Low Lab File ID: 1AE06025.D  
 Lab ID: 680-89985-A-3-B MS Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	896	130 U	477	53	39-130	
Acenaphthylene	896	50 J	544	55	38-130	
Anthracene	896	97	595	56	37-130	
Benzo[a]anthracene	896	220	795	64	40-130	
Benzo[a]pyrene	896	230	661	49	49-130	
Benzo[b]fluoranthene	896	450	963	57	37-130	
Benzo[g,h,i]perylene	896	200	743	60	32-130	
Benzo[k]fluoranthene	896	170	626	51	32-130	
Chrysene	896	410	913	56	41-130	
Dibenz(a,h)anthracene	896	54	628	64	27-130	
Fluoranthene	896	670	1250	64	40-130	
Fluorene	896	19 J	531	57	40-130	
Indeno[1,2,3-cd]pyrene	896	180	751	63	30-130	
1-Methylnaphthalene	896	140	722	65	31-130	
2-Methylnaphthalene	896	140	739	66	33-130	
Naphthalene	896	100	879	87	36-130	
Phenanthrene	896	580	1460	98	42-130	
Pyrene	896	420	1170	84	44-130	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Matrix: Solid Level: Low Lab File ID: 1AD30021.D  
 Lab ID: 680-89791-2 MS Client ID: HP0200B-CS-SP MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	793	1200 U	1200 U	0	39-130	F
Acenaphthylene	793	470 U	163 J	21	38-130	F
Anthracene	793	99 U	164	21	37-130	F
Benzo[a]anthracene	793	95 U	238	30	40-130	F
Benzo[a]pyrene	793	120 U	148	19	49-130	F
Benzo[b]fluoranthene	793	72 J	182	14	37-130	F
Benzo[g,h,i]perylene	793	76 J	197 J	15	32-130	F
Benzo[k]fluoranthene	793	95 U	198	25	32-130	F
Chrysene	793	120	259	18	41-130	F
Dibenz(a,h)anthracene	793	240 U	166 J	21	27-130	F
Fluoranthene	793	76 J	240	21	40-130	F
Fluorene	793	110 J	341	29	40-130	F
Indeno[1,2,3-cd]pyrene	793	240 U	155 J	20	30-130	F
1-Methylnaphthalene	793	470 U	169 J	21	31-130	F
2-Methylnaphthalene	793	470 U	281 J	35	33-130	
Naphthalene	793	1400	1580	23	36-130	F
Phenanthrene	793	190	389	25	42-130	F
Pyrene	793	78 J	186 J	14	44-130	F

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Matrix: Solid Level: Low Lab File ID: 1AE01013.D  
 Lab ID: 680-89695-A-21-C MSD Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	803	423 J	53	26	40	39-130	
Acenaphthylene	803	419	52	28	40	38-130	
Anthracene	803	472	52	31	40	37-130	
Benzo[a]anthracene	803	673	54	34	40	40-130	
Benzo[a]pyrene	803	591	47	30	40	49-130	F
Benzo[b]fluoranthene	803	672	44	32	40	37-130	
Benzo[g,h,i]perylene	803	649	56	31	40	32-130	
Benzo[k]fluoranthene	803	518	47	31	40	32-130	
Chrysene	803	574	38	38	40	41-130	F
Dibenz(a,h)anthracene	803	635	74	24	40	27-130	
Fluoranthene	803	723	39	42	40	40-130	F
Fluorene	803	431	51	33	40	40-130	
Indeno[1,2,3-cd]pyrene	803	650	58	37	40	30-130	
1-Methylnaphthalene	803	502	55	28	40	31-130	
2-Methylnaphthalene	803	503	54	29	40	33-130	
Naphthalene	803	476	52	35	40	36-130	
Phenanthrene	803	616	43	39	40	42-130	
Pyrene	803	651	34	44	40	44-130	F

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Matrix: Solid Level: Low Lab File ID: 1AE02019.D  
 Lab ID: 680-89791-A-22-C MSD Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	784	370 J	47	3	40	39-130	
Acenaphthylene	784	353	45	3	40	38-130	
Anthracene	784	397	51	5	40	37-130	
Benzo[a]anthracene	784	489	55	4	40	40-130	
Benzo[a]pyrene	784	377	48	1	40	49-130	F
Benzo[b]fluoranthene	784	431	49	4	40	37-130	
Benzo[g,h,i]perylene	784	411	48	3	40	32-130	
Benzo[k]fluoranthene	784	405	49	1	40	32-130	
Chrysene	784	447	50	2	40	41-130	
Dibenz(a,h)anthracene	784	465	59	5	40	27-130	
Fluoranthene	784	391	42	3	40	40-130	
Fluorene	784	372	47	8	40	40-130	
Indeno[1,2,3-cd]pyrene	784	410	52	8	40	30-130	
1-Methylnaphthalene	784	432	55	10	40	31-130	
2-Methylnaphthalene	784	430	55	12	40	33-130	
Naphthalene	784	403	49	12	40	36-130	
Phenanthrene	784	442	49	4	40	42-130	
Pyrene	784	438	48	2	40	44-130	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Matrix: Solid Level: Low Lab File ID: 1AE06026.D  
 Lab ID: 680-89985-A-3-C MSD Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	896	364	41	27	40	39-130	
Acenaphthylene	896	520	52	5	40	38-130	
Anthracene	896	680	65	13	40	37-130	
Benzo[a]anthracene	896	1910	188	82	40	40-130	F
Benzo[a]pyrene	896	1180	107	57	40	49-130	F
Benzo[b]fluoranthene	896	2560	235	91	40	37-130	F
Benzo[g,h,i]perylene	896	940	82	23	40	32-130	
Benzo[k]fluoranthene	896	1390	137	76	40	32-130	F
Chrysene	896	2560	239	95	40	41-130	F
Dibenz(a,h)anthracene	896	664	68	6	40	27-130	
Fluoranthene	896	4900	471	119	40	40-130	E F
Fluorene	896	415	44	25	40	40-130	
Indeno[1,2,3-cd]pyrene	896	1030	94	31	40	30-130	
1-Methylnaphthalene	896	545	45	28	40	31-130	
2-Methylnaphthalene	896	584	49	23	40	33-130	
Naphthalene	896	476	42	60	40	36-130	F
Phenanthrene	896	1010	48	36	40	42-130	
Pyrene	896	3930	392	108	40	44-130	F

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Matrix: Solid Level: Low Lab File ID: 1AD30022.D  
 Lab ID: 680-89791-2 MSD Client ID: HP0200B-CS-SP MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	784	1200 U	0	NC	40	39-130	F
Acenaphthylene	784	85.2 J	11	63	40	38-130	F
Anthracene	784	96.7 J	12	51	40	37-130	F
Benzo[a]anthracene	784	176	22	30	40	40-130	F
Benzo[a]pyrene	784	98.0 J	13	41	40	49-130	F
Benzo[b]fluoranthene	784	145	9	22	40	37-130	F
Benzo[g,h,i]perylene	784	134 J	7	38	40	32-130	F
Benzo[k]fluoranthene	784	97.6	12	68	40	32-130	F
Chrysene	784	188	9	32	40	41-130	F
Dibenz(a,h)anthracene	784	88.6 J	11	61	40	27-130	F
Fluoranthene	784	177 J	13	31	40	40-130	F
Fluorene	784	135 J	3	87	40	40-130	F
Indeno[1,2,3-cd]pyrene	784	105 J	13	39	40	30-130	F
1-Methylnaphthalene	784	110 J	14	42	40	31-130	F
2-Methylnaphthalene	784	132 J	17	72	40	33-130	F
Naphthalene	784	595	-102	90	40	36-130	F
Phenanthrene	784	214	3	58	40	42-130	F
Pyrene	784	151 J	9	21	40	44-130	F

# Column to be used to flag recovery and RPD values

FORM IV  
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Lab File ID: 1AE01008.D Lab Sample ID: MB 660-136938/1-A  
 Matrix: Solid Date Extracted: 04/29/2013 14:27  
 Instrument ID: BSMA5973 Date Analyzed: 05/01/2013 14:46  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136938/2-A	1AE01009.D	05/01/2013 15:02
	680-89695-A-21-B MS	1AE01012.D	05/01/2013 15:47
	680-89695-A-21-C MSD	1AE01013.D	05/01/2013 16:02
HP0232A-CS-SP	680-89791-3	1AE01021.D	05/01/2013 18:03
HP0232B-CS-SP	680-89791-4	1AE01022.D	05/01/2013 18:18
HP0288A-CS-SP	680-89791-5	1AE01023.D	05/01/2013 18:33
CV1342A-CS-SP	680-89791-6	1AE01024.D	05/01/2013 18:48
CV1342B-CS-SP	680-89791-7	1AE01025.D	05/01/2013 19:03
CV1116A-CS	680-89791-8	1AE01026.D	05/01/2013 19:18
CV1116B-CS	680-89791-9	1AE01027.D	05/01/2013 19:33
CV1336A-CS	680-89791-10	1AE01028.D	05/01/2013 19:48
CV1336A-CSD	680-89791-11	1AE01029.D	05/01/2013 20:03
CV1336B-CS	680-89791-12	1AE01030.D	05/01/2013 20:18
CV0790A-CS-SP	680-89791-13	1AE01031.D	05/01/2013 20:33
CV0790B-CS-SP	680-89791-14	1AE01032.D	05/01/2013 20:48



FORM IV  
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Lab File ID: 1AD30008.D Lab Sample ID: MB 660-136958/1-A  
 Matrix: Solid Date Extracted: 04/30/2013 09:33  
 Instrument ID: BSMA5973 Date Analyzed: 04/30/2013 13:13  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136958/2-A	1AD30009.D	04/30/2013 13:28
HP0200B-CS-SP	680-89791-2	1AD30020.D	04/30/2013 16:12
HP0200B-CS-SP MS	680-89791-2 MS	1AD30021.D	04/30/2013 16:27
HP0200B-CS-SP MSD	680-89791-2 MSD	1AD30022.D	04/30/2013 16:42

FORM IV  
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Lab File ID: 1AE02008.D Lab Sample ID: MB 660-136975/1-A  
 Matrix: Solid Date Extracted: 04/30/2013 14:42  
 Instrument ID: BSMA5973 Date Analyzed: 05/02/2013 16:56  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136975/2-A	1AE02010.D	05/02/2013 17:26
CV0790C-CS-SP	680-89791-15	1AE02012.D	05/02/2013 17:57
CV0121A-CS-SP	680-89791-18	1AE02013.D	05/02/2013 18:12
CV0121B-CS-SP	680-89791-19	1AE02014.D	05/02/2013 18:27
CV0752A-CS-SP	680-89791-20	1AE02015.D	05/02/2013 18:42
CV0752B-CS-SP	680-89791-21	1AE02016.D	05/02/2013 18:57
	680-89791-A-22-B MS	1AE02018.D	05/02/2013 19:27
	680-89791-A-22-C MSD	1AE02019.D	05/02/2013 19:42
CV1312A-CS-SP	680-89791-23	1AE02020.D	05/02/2013 19:57

FORM IV  
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
SDG No.: 68089791-1  
Lab File ID: 1AE06018.D Lab Sample ID: MB 660-137132/1-A  
Matrix: Solid Date Extracted: 05/06/2013 08:14  
Instrument ID: BSMA5973 Date Analyzed: 05/06/2013 15:08  
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-137132/2-A	1AE06019.D	05/06/2013 15:24
	680-89985-A-3-B MS	1AE06025.D	05/06/2013 16:56
	680-89985-A-3-C MSD	1AE06026.D	05/06/2013 17:11
HP0200A-CS-SP	680-89791-1	1AE06044.D	05/06/2013 21:43

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Lab File ID: 1AD26002.D DFTPP Injection Date: 04/26/2013  
 Instrument ID: BSMA5973 DFTPP Injection Time: 09:50  
 Analysis Batch No.: 136892

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	31.9
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	29.9
70	Less than 2.0 % of mass 69	0.3 (0.9)1
127	10.0 - 80.0 % of mass 198	38.3
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	5.5
275	10.0 - 60.0 % of mass 198	25.5
365	Greater than 1.0 % of mass 198	3.3
441	Present but less than mass 443	11.6
442	Greater than 50.0 % of mass 198	84.2
443	15.0 - 24.0 % of mass 442	15.5 (18.4)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-136892/3	1AD26003.D	04/26/2013	10:03
	IC 660-136892/4	1AD26004.D	04/26/2013	10:18
	IC 660-136892/5	1AD26005.D	04/26/2013	10:33
	IC 660-136892/6	1AD26006.D	04/26/2013	10:48
	ICIS 660-136892/7	1AD26007.D	04/26/2013	11:03
	IC 660-136892/8	1AD26008.D	04/26/2013	11:19
	IC 660-136892/9	1AD26009.D	04/26/2013	11:34
	ICV 660-136892/10	1AD26010.D	04/26/2013	11:49

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Lab File ID: 1AD30002.D DFTPP Injection Date: 04/30/2013  
 Instrument ID: BSMA5973 DFTPP Injection Time: 11:23  
 Analysis Batch No.: 136977

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	39.7
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	36.9
70	Less than 2.0 % of mass 69	0.5 (1.3)1
127	10.0 - 80.0 % of mass 198	47.2
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.2
275	10.0 - 60.0 % of mass 198	21.7
365	Greater than 1.0 % of mass 198	2.6
441	Present but less than mass 443	7.8
442	Greater than 50.0 % of mass 198	59.6
443	15.0 - 24.0 % of mass 442	11.4 (19.2)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136977/3	1AD30003.D	04/30/2013	11:37
	MB 660-136958/1-A	1AD30008.D	04/30/2013	13:13
	LCS 660-136958/2-A	1AD30009.D	04/30/2013	13:28
HP0200B-CS-SP	680-89791-2	1AD30020.D	04/30/2013	16:12
HP0200B-CS-SP MS	680-89791-2 MS	1AD30021.D	04/30/2013	16:27
HP0200B-CS-SP MSD	680-89791-2 MSD	1AD30022.D	04/30/2013	16:42

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Lab File ID: 1AE01005.D DFTPP Injection Date: 05/01/2013  
 Instrument ID: BSMA5973 DFTPP Injection Time: 14:01  
 Analysis Batch No.: 137001

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	31.9
68	Less than 2.0 % of mass 69	0.5 (1.7)1
69	Mass 69 relative abundance	31.0
70	Less than 2.0 % of mass 69	0.3 (0.9)1
127	10.0 - 80.0 % of mass 198	40.6
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.7
275	10.0 - 60.0 % of mass 198	25.8
365	Greater than 1.0 % of mass 198	2.6
441	Present but less than mass 443	11.9
442	Greater than 50.0 % of mass 198	92.8
443	15.0 - 24.0 % of mass 442	17.9 (19.3)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-137001/7	1AE01006.D	05/01/2013	14:15
	MB 660-136938/1-A	1AE01008.D	05/01/2013	14:46
	LCS 660-136938/2-A	1AE01009.D	05/01/2013	15:02
	680-89695-A-21-B MS	1AE01012.D	05/01/2013	15:47
	680-89695-A-21-C MSD	1AE01013.D	05/01/2013	16:02
HP0232A-CS-SP	680-89791-3	1AE01021.D	05/01/2013	18:03
HP0232B-CS-SP	680-89791-4	1AE01022.D	05/01/2013	18:18
HP0288A-CS-SP	680-89791-5	1AE01023.D	05/01/2013	18:33
CV1342A-CS-SP	680-89791-6	1AE01024.D	05/01/2013	18:48
CV1342B-CS-SP	680-89791-7	1AE01025.D	05/01/2013	19:03
CV1116A-CS	680-89791-8	1AE01026.D	05/01/2013	19:18
CV1116B-CS	680-89791-9	1AE01027.D	05/01/2013	19:33
CV1336A-CS	680-89791-10	1AE01028.D	05/01/2013	19:48
CV1336A-CSD	680-89791-11	1AE01029.D	05/01/2013	20:03
CV1336B-CS	680-89791-12	1AE01030.D	05/01/2013	20:18
CV0790A-CS-SP	680-89791-13	1AE01031.D	05/01/2013	20:33
CV0790B-CS-SP	680-89791-14	1AE01032.D	05/01/2013	20:48

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Lab File ID: 1AE02005.D DFTPP Injection Date: 05/02/2013  
 Instrument ID: BSMA5973 DFTPP Injection Time: 16:01  
 Analysis Batch No.: 137070

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	47.7
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	42.2
70	Less than 2.0 % of mass 69	0.4 (1.0)1
127	10.0 - 80.0 % of mass 198	46.1
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.0
275	10.0 - 60.0 % of mass 198	21.7
365	Greater than 1.0 % of mass 198	2.2
441	Present but less than mass 443	7.7
442	Greater than 50.0 % of mass 198	50.1
443	15.0 - 24.0 % of mass 442	9.7 (19.4)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-137070/7	1AE02006.D	05/02/2013	16:18
	MB 660-136975/1-A	1AE02008.D	05/02/2013	16:56
	LCS 660-136975/2-A	1AE02010.D	05/02/2013	17:26
CV0790C-CS-SP	680-89791-15	1AE02012.D	05/02/2013	17:57
CV0121A-CS-SP	680-89791-18	1AE02013.D	05/02/2013	18:12
CV0121B-CS-SP	680-89791-19	1AE02014.D	05/02/2013	18:27
CV0752A-CS-SP	680-89791-20	1AE02015.D	05/02/2013	18:42
CV0752B-CS-SP	680-89791-21	1AE02016.D	05/02/2013	18:57
	680-89791-A-22-B MS	1AE02018.D	05/02/2013	19:27
	680-89791-A-22-C MSD	1AE02019.D	05/02/2013	19:42
CV1312A-CS-SP	680-89791-23	1AE02020.D	05/02/2013	19:57

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Lab File ID: 1AE06002.D DFTPP Injection Date: 05/06/2013  
 Instrument ID: BSMA5973 DFTPP Injection Time: 10:11  
 Analysis Batch No.: 137156

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	37.9
68	Less than 2.0 % of mass 69	0.3 (0.8)1
69	Mass 69 relative abundance	33.6
70	Less than 2.0 % of mass 69	0.6 (1.7)1
127	10.0 - 80.0 % of mass 198	46.4
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.3
275	10.0 - 60.0 % of mass 198	24.9
365	Greater than 1.0 % of mass 198	2.9
441	Present but less than mass 443	12.3
442	Greater than 50.0 % of mass 198	88.6
443	15.0 - 24.0 % of mass 442	16.3 (18.4)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 660-137156/3	1AE06003.D	05/06/2013	10:24
	IC 660-137156/4	1AE06004.D	05/06/2013	10:40
	IC 660-137156/5	1AE06005.D	05/06/2013	10:56
	IC 660-137156/6	1AE06006.D	05/06/2013	11:11
	IC 660-137156/7	1AE06007.D	05/06/2013	11:26
	IC 660-137156/8	1AE06008.D	05/06/2013	11:41
	IC 660-137156/9	1AE06009.D	05/06/2013	11:56
	ICV 660-137156/10	1AE06010.D	05/06/2013	12:11
	MB 660-137132/1-A	1AE06018.D	05/06/2013	15:08
	LCS 660-137132/2-A	1AE06019.D	05/06/2013	15:24
	680-89985-A-3-B MS	1AE06025.D	05/06/2013	16:56
	680-89985-A-3-C MSD	1AE06026.D	05/06/2013	17:11
HP0200A-CS-SP	680-89791-1	1AE06044.D	05/06/2013	21:43



FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Sample No.: ICIS 660-136892/7 Date Analyzed: 04/26/2013 11:03  
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1AD26007.D Heated Purge: (Y/N) N  
 Calibration ID: 2919

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	2358748	2.58	1131055	3.61	1941405	4.56
UPPER LIMIT	4717496	3.08	2262110	4.11	3882810	5.06
LOWER LIMIT	1179374	2.08	565528	3.11	970703	4.06
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-136892/10	2252499	2.58	1126401	3.61	2015970	4.56

NPT = Naphthalene-d8  
 ANT = Acenaphthene-d10  
 PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Sample No.: ICIS 660-136892/7 Date Analyzed: 04/26/2013 11:03  
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1AD26007.D Heated Purge: (Y/N) N  
 Calibration ID: 2919

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	1806882	6.58	1862358	7.67		
UPPER LIMIT	3613764	7.08	3724716	8.17		
LOWER LIMIT	903441	6.08	931179	7.17		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-136892/10	1842442	6.58	2029776	7.67		

CRY = Chrysene-d12  
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Sample No.: CCVIS 660-136977/3 Date Analyzed: 04/30/2013 11:37  
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1AD30003.D Heated Purge: (Y/N) N  
 Calibration ID: 2919

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	1567398	2.57	781979	3.60	1319676	4.55	
UPPER LIMIT	3134796	3.07	1563958	4.10	2639352	5.05	
LOWER LIMIT	783699	2.07	390990	3.10	659838	4.05	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136958/1-A		2067614	2.57	1070671	3.60	1643618	4.55
LCS 660-136958/2-A		1897367	2.57	968647	3.60	1607458	4.55
680-89791-2	HP0200B-CS-SP	1508774	2.58	828756	3.61	1393953	4.56
680-89791-2 MS	HP0200B-CS-SP MS	1374212	2.58	787595	3.60	1350068	4.56
680-89791-2 MSD	HP0200B-CS-SP MSD	1184311	2.57	609567	3.60	1006516	4.56

NPT = Naphthalene-d8  
 ANT = Acenaphthene-d10  
 PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Sample No.: CCVIS 660-136977/3 Date Analyzed: 04/30/2013 11:37  
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1AD30003.D Heated Purge: (Y/N) N  
 Calibration ID: 2919

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	1172315	6.57	1161541	7.66		
UPPER LIMIT	2344630	7.07	2323082	8.16		
LOWER LIMIT	586158	6.07	580771	7.16		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-136958/1-A		1474300	6.57	1471036	7.66	
LCS 660-136958/2-A		1397185	6.57	1410784	7.65	
680-89791-2	HP0200B-CS-SP	1498700	6.59	1697971	7.69	
680-89791-2 MS	HP0200B-CS-SP MS	1627912	6.59	1608005	7.68	
680-89791-2 MSD	HP0200B-CS-SP MSD	1058093	6.58	1118051	7.67	

CRY = Chrysene-d12  
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Sample No.: CCVIS 660-137001/7 Date Analyzed: 05/01/2013 14:15  
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1AE01006.D Heated Purge: (Y/N) N  
 Calibration ID: 2919

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	1809348	2.56	901124	3.59	1564940	4.54	
UPPER LIMIT	3618696	3.06	1802248	4.09	3129880	5.04	
LOWER LIMIT	904674	2.06	450562	3.09	782470	4.04	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136938/1-A		1636438	2.56	863141	3.59	1397479	4.54
LCS 660-136938/2-A		1571668	2.56	823778	3.59	1440816	4.54
680-89695-A-21-B MS		1455383	2.56	751774	3.59	1217471	4.55
680-89695-A-21-C MSD		1519033	2.56	797282	3.60	1302080	4.55
680-89791-3	HP0232A-CS-SP	1368700	2.57	675741	3.60	1118963	4.56
680-89791-4	HP0232B-CS-SP	1357041	2.57	706095	3.60	1086532	4.56
680-89791-5	HP0288A-CS-SP	1417292	2.57	726409	3.60	1182534	4.56
680-89791-6	CV1342A-CS-SP	1375789	2.57	708635	3.60	1148014	4.56
680-89791-7	CV1342B-CS-SP	1331622	2.57	700926	3.60	1117887	4.56
680-89791-8	CV1116A-CS	1404425	2.57	737678	3.60	1169155	4.56
680-89791-9	CV1116B-CS	1331667	2.57	717156	3.60	1097878	4.56
680-89791-10	CV1336A-CS	1377223	2.57	738177	3.60	1133543	4.56
680-89791-11	CV1336A-CSD	1318779	2.57	691258	3.60	1061707	4.56
680-89791-12	CV1336B-CS	1252687	2.58	650823	3.60	1022262	4.56
680-89791-13	CV0790A-CS-SP	1304812	2.58	695708	3.60	1100078	4.56
680-89791-14	CV0790B-CS-SP	1295623	2.57	684765	3.60	1055982	4.56

NPT = Naphthalene-d8  
 ANT = Acenaphthene-d10  
 PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Sample No.: CCVIS 660-137001/7 Date Analyzed: 05/01/2013 14:15  
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1AE01006.D Heated Purge: (Y/N) N  
 Calibration ID: 2919

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	1466966	6.57	1426011	7.66		
UPPER LIMIT	2933932	7.07	2852022	8.16		
LOWER LIMIT	733483	6.07	713006	7.16		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-136938/1-A		1389979	6.57	1362725	7.65	
LCS 660-136938/2-A		1384316	6.57	1342428	7.66	
680-89695-A-21-B MS		1045215	6.58	1361545	7.67	
680-89695-A-21-C MSD		1160479	6.58	1432756	7.67	
680-89791-3	HP0232A-CS-SP	1186017	6.59	1475514	7.69	
680-89791-4	HP0232B-CS-SP	1175792	6.59	1500079	7.69	
680-89791-5	HP0288A-CS-SP	1278788	6.59	1526210	7.69	
680-89791-6	CV1342A-CS-SP	1262677	6.60	1550920	7.70	
680-89791-7	CV1342B-CS-SP	1241026	6.59	1506014	7.69	
680-89791-8	CV1116A-CS	1317791	6.60	1574668	7.69	
680-89791-9	CV1116B-CS	1253519	6.59	1494724	7.69	
680-89791-10	CV1336A-CS	1268579	6.60	1529286	7.70	
680-89791-11	CV1336A-CSD	1220777	6.60	1433010	7.70	
680-89791-12	CV1336B-CS	1216940	6.60	1421994	7.70	
680-89791-13	CV0790A-CS-SP	1315039	6.60	1477858	7.71	
680-89791-14	CV0790B-CS-SP	1298759	6.60	1448714	7.71	

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Sample No.: CCVIS 660-137070/7 Date Analyzed: 05/02/2013 16:18  
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1AE02006.D Heated Purge: (Y/N) N  
 Calibration ID: 2919

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	1450767	2.55	762472	3.58	1434463	4.53	
UPPER LIMIT	2901534	3.05	1524944	4.08	2868926	5.03	
LOWER LIMIT	725384	2.05	381236	3.08	717232	4.03	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136975/1-A		1328871	2.55	712860	3.58	1189239	4.53
LCS 660-136975/2-A		1623370	2.55	940356	3.58	1443047	4.53
680-89791-15	CV0790C-CS-SP	1354622	2.55	675880	3.58	977084	4.53
680-89791-18	CV0121A-CS-SP	1329845	2.55	699306	3.58	1101748	4.53
680-89791-19	CV0121B-CS-SP	1507953	2.55	788272	3.59	1177449	4.54
680-89791-20	CV0752A-CS-SP	1233628	2.55	685214	3.59	1002976	4.54
680-89791-21	CV0752B-CS-SP	1206332	2.56	634110	3.58	913300	4.53
680-89791-A-22-B MS		1232986	2.55	663075	3.58	966784	4.54
680-89791-A-22-C MSD		1135452	2.55	609121	3.59	872011	4.54
680-89791-23	CV1312A-CS-SP	1177175	2.56	600563	3.59	837609	4.54

NPT = Naphthalene-d8  
 ANT = Acenaphthene-d10  
 PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Sample No.: CCVIS 660-137070/7 Date Analyzed: 05/02/2013 16:18  
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1AE02006.D Heated Purge: (Y/N) N  
 Calibration ID: 2919

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	1367246	6.55	1233398	7.64		
UPPER LIMIT	2734492	7.05	2466796	8.14		
LOWER LIMIT	683623	6.05	616699	7.14		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-136975/1-A		1170549	6.55	1144344	7.63	
LCS 660-136975/2-A		1358032	6.55	1341044	7.64	
680-89791-15	CV0790C-CS-SP	766463	6.55	852360	7.64	
680-89791-18	CV0121A-CS-SP	784362	6.55	846009	7.64	
680-89791-19	CV0121B-CS-SP	951530	6.56	1107431	7.65	
680-89791-20	CV0752A-CS-SP	733826	6.56	853288	7.65	
680-89791-21	CV0752B-CS-SP	744933	6.56	886251	7.65	
680-89791-A-22-B MS		761987	6.56	887669	7.65	
680-89791-A-22-C MSD		739170	6.56	879378	7.65	
680-89791-23	CV1312A-CS-SP	766361	6.56	961455	7.66	

CRY = Chrysene-d12  
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits



FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Sample No.: ICIS 660-137156/3 Date Analyzed: 05/06/2013 10:24  
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1AE06003.D Heated Purge: (Y/N) N  
 Calibration ID: 2919

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	1347501	2.54	663107	3.58	1152475	4.52	
UPPER LIMIT	2695002	3.04	1326214	4.08	2304950	5.02	
LOWER LIMIT	673751	2.04	331554	3.08	576238	4.02	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-137156/10		1358957	2.55	723354	3.58	1301827	4.52
MB 660-137132/1-A		1640003	2.54	834813	3.57	1379503	4.53
LCS 660-137132/2-A		1543432	2.54	808163	3.58	1393811	4.53
680-89985-A-3-B MS		1074078	2.55	539450	3.57	802754	4.52
680-89985-A-3-C MSD		1083422	2.55	548460	3.57	839987	4.52
680-89791-1	HP0200A-CS-SP	1038146	2.55	564231	3.58	950649	4.53

NPT = Naphthalene-d8  
 ANT = Acenaphthene-d10  
 PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Sample No.: ICIS 660-137156/3 Date Analyzed: 05/06/2013 10:24  
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1AE06003.D Heated Purge: (Y/N) N  
 Calibration ID: 2919

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	1092561	6.53	1003019	7.63		
UPPER LIMIT	2185122	7.03	2006038	8.13		
LOWER LIMIT	546281	6.03	501510	7.13		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-137156/10		1182962	6.54	1130799	7.62	
MB 660-137132/1-A		1030752	6.54	1093945	7.63	
LCS 660-137132/2-A		1181721	6.54	1095540	7.63	
680-89985-A-3-B MS		668390	6.54	856623	7.63	
680-89985-A-3-C MSD		759310	6.55	953129	7.64	
680-89791-1	HP0200A-CS-SP	941966	6.56	1085163	7.66	

CRY = Chrysene-d12  
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: HP0200A-CS-SP Lab Sample ID: 680-89791-1  
 Matrix: Solid Lab File ID: 1AE06044.D  
 Analysis Method: 8270C LL Date Collected: 04/24/2013 10:17  
 Extract. Method: 3546 Date Extracted: 05/06/2013 08:14  
 Sample wt/vol: 15.37(g) Date Analyzed: 05/06/2013 21:43  
 Con. Extract Vol.: 10(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 14.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137156 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	1100	U	1100	230
208-96-8	Acenaphthylene	450	U	450	57
120-12-7	Anthracene	95	U	95	48
56-55-3	Benzo[a]anthracene	94		91	44
50-32-8	Benzo[a]pyrene	120	U	120	59
205-99-2	Benzo[b]fluoranthene	140	U	140	69
191-24-2	Benzo[g,h,i]perylene	84	J	230	50
207-08-9	Benzo[k]fluoranthene	91	U	91	41
218-01-9	Chrysene	130		100	51
53-70-3	Dibenz(a,h)anthracene	230	U	230	47
206-44-0	Fluoranthene	90	J	230	45
86-73-7	Fluorene	260		230	47
193-39-5	Indeno[1,2,3-cd]pyrene	230	U	230	81
90-12-0	1-Methylnaphthalene	450	U	450	50
91-57-6	2-Methylnaphthalene	110	J	450	81
91-20-3	Naphthalene	1300		450	50
85-01-8	Phenanthrene	230		91	44
129-00-0	Pyrene	120	J	230	42

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	38		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06044.D  
 Lab Smp Id: 680-89791-B-1-B Client Smp ID: HP0200A-CS-SP  
 Inj Date : 06-MAY-2013 21:43  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-89791-B-1-B  
 Misc Info : 680-89791-B-1-B  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06044.D  
 Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD  
 Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D  
 Als bottle: 44  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	10.000	Final Volume
Ws	15.370	Weight Extracted
M	14.013	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.554	2.544	(1.000)	1038146	40.0000	
* 6 Acenaphthene-d10	164		3.580	3.575	(1.000)	564231	40.0000	
* 10 Phenanthrene-d10	188		4.531	4.521	(1.000)	950649	40.0000	
\$ 14 o-Terphenyl	230		4.825	4.820	(1.065)	5205	0.38256	289.4588
* 18 Chrysene-d12	240		6.561	6.535	(1.000)	941966	40.0000	
* 23 Perylene-d12	264		7.662	7.630	(1.000)	1085163	40.0000	
2 Naphthalene	128		2.592	2.555	(1.015)	41082	1.68042	1271.4803(M)
3 2-Methylnaphthalene	141		2.971	2.961	(1.163)	1790	0.14407	109.0094
9 Fluorene	166		3.911	3.901	(1.093)	6039	0.34804	263.3437
11 Phenanthrene	178		4.547	4.537	(1.004)	7083	0.30074	227.5566
15 Fluoranthene	202		5.412	5.397	(1.195)	3232	0.11929	90.2589(Q)
16 Pyrene	202		5.583	5.562	(0.851)	4650	0.15357	116.2016
17 Benzo(a)anthracene	228		6.556	6.524	(0.999)	3276	0.12375	93.6327(QM)
19 Chrysene	228		6.572	6.551	(1.002)	5076	0.17041	128.9427(QM)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	====	====	=====	=====	=====	=====	
26 Benzo(g,h,i)perylene	276	8.634	8.602	(1.127)	2942	0.11087	83.8854(M)

QC Flag Legend

Q - Qualifier signal failed the ratio test.  
M - Compound response manually integrated.

Data File: 1AE06044.D

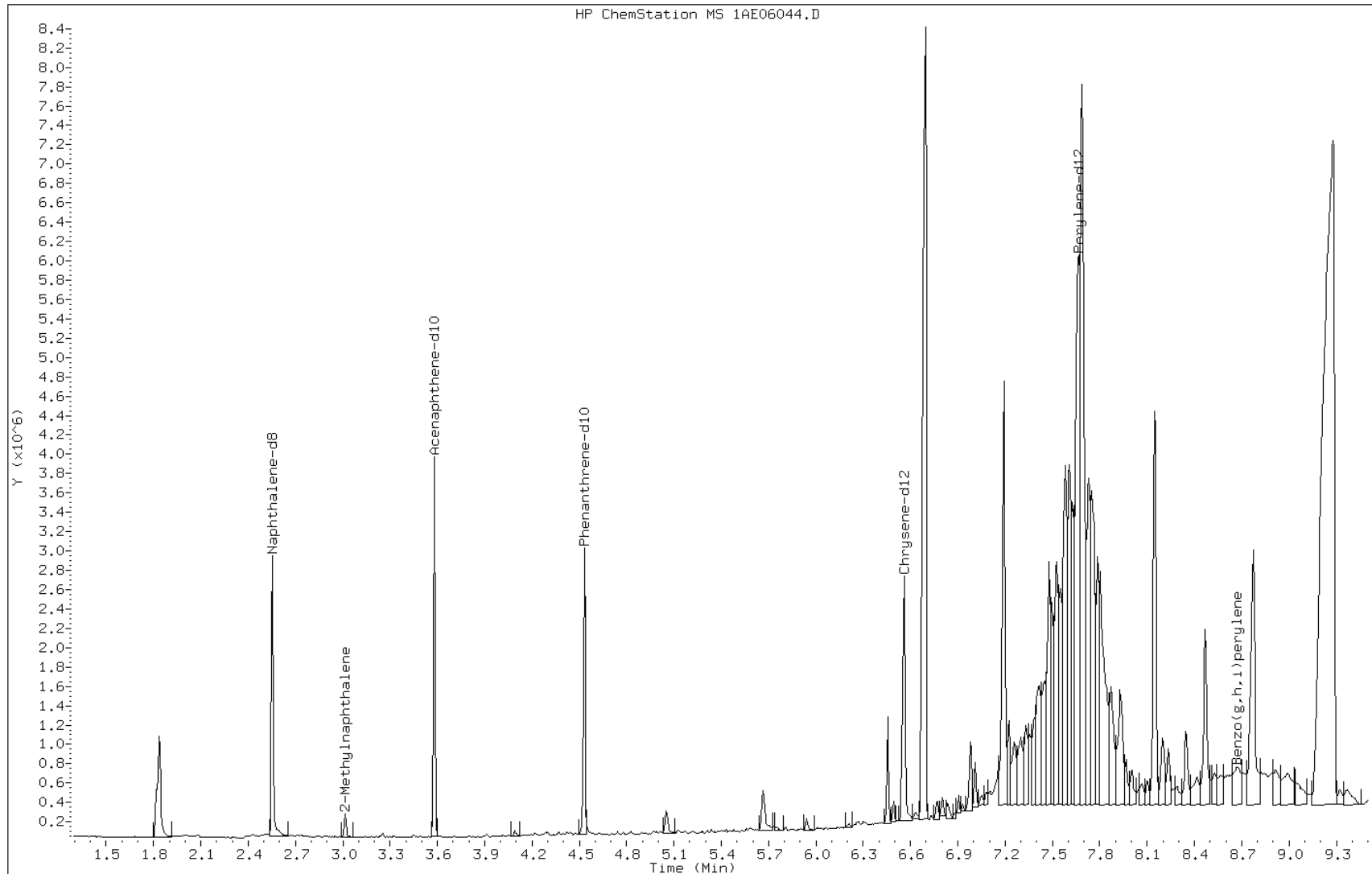
Date: 06-MAY-2013 21:43

Client ID: HP0200A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-B-1-B

Operator: SCC



Data File: 1AE06044.D

Date: 06-MAY-2013 21:43

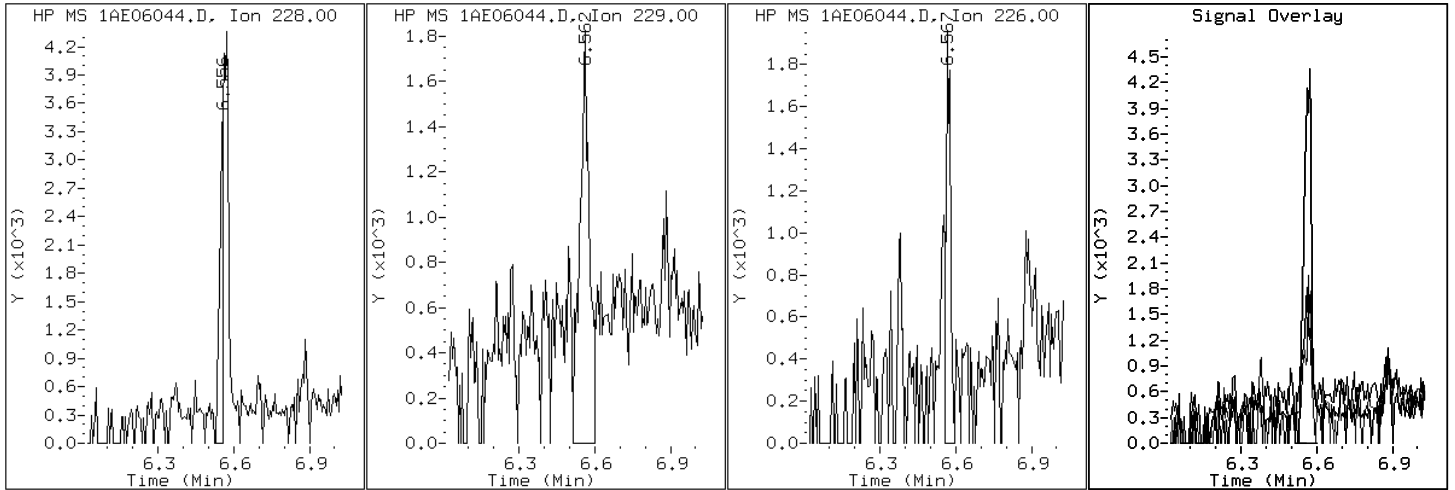
Client ID: HP0200A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-B-1-B

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AE06044.D

Date: 06-MAY-2013 21:43

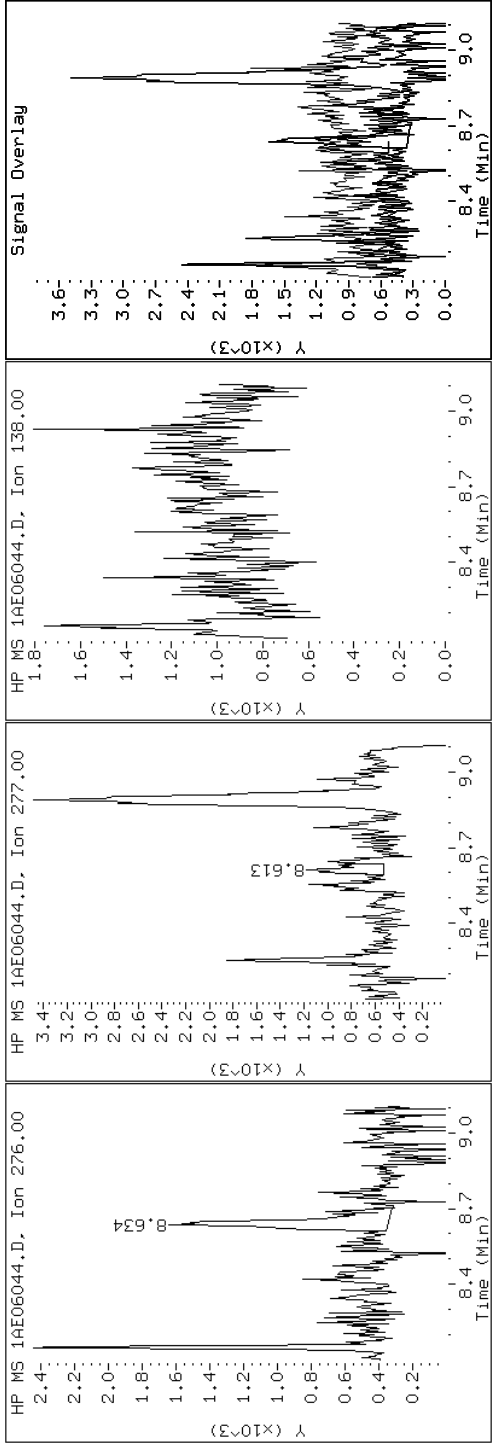
Client ID: HP0200A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-B-1-B

Operator: SCC

26 Benzo(g,h,i)perylene





Data File: 1AE06044.D

Date: 06-MAY-2013 21:43

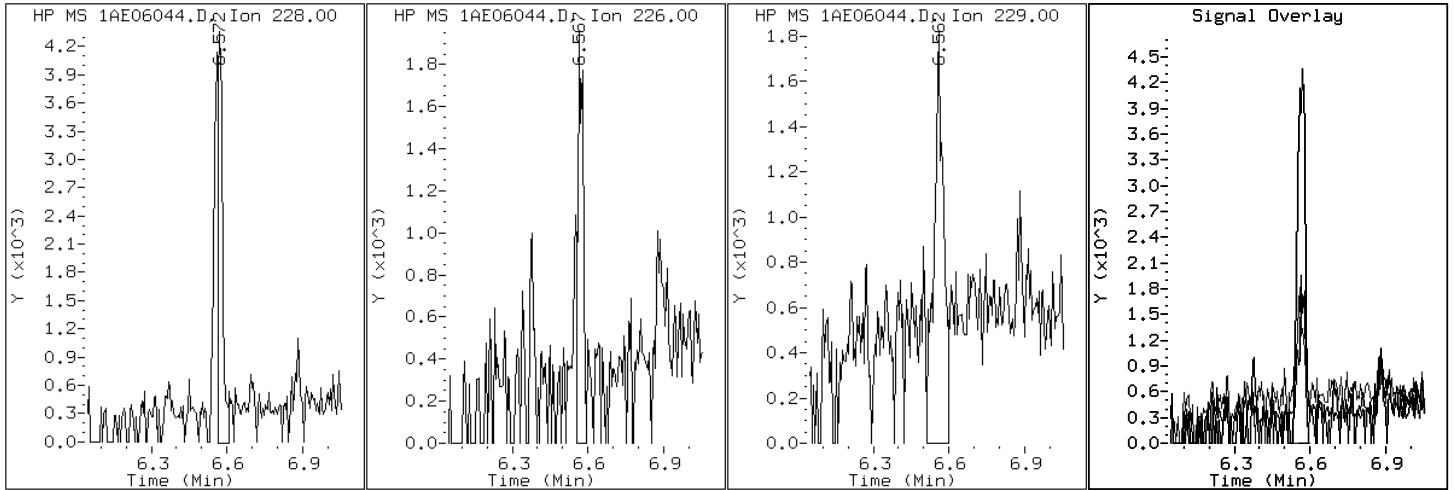
Client ID: HP0200A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-B-1-B

Operator: SCC

19 Chrysene



Data File: 1AE06044.D

Date: 06-MAY-2013 21:43

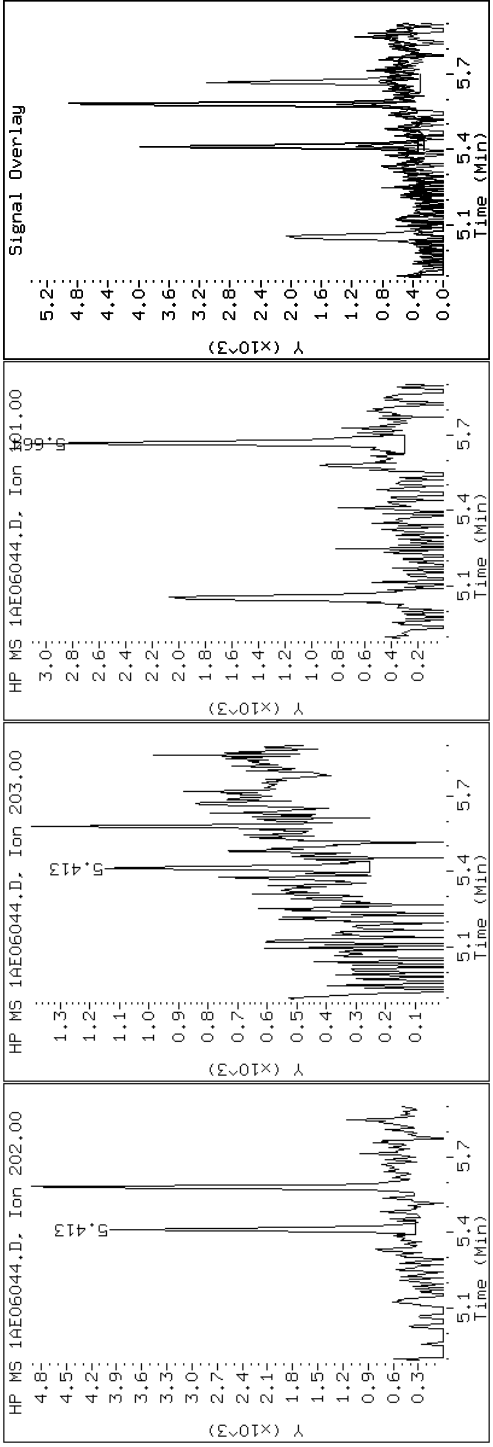
Client ID: HP0200A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-B-1-B

Operator: SCC

15 Fluoranthene



Data File: 1AE06044.D

Date: 06-MAY-2013 21:43

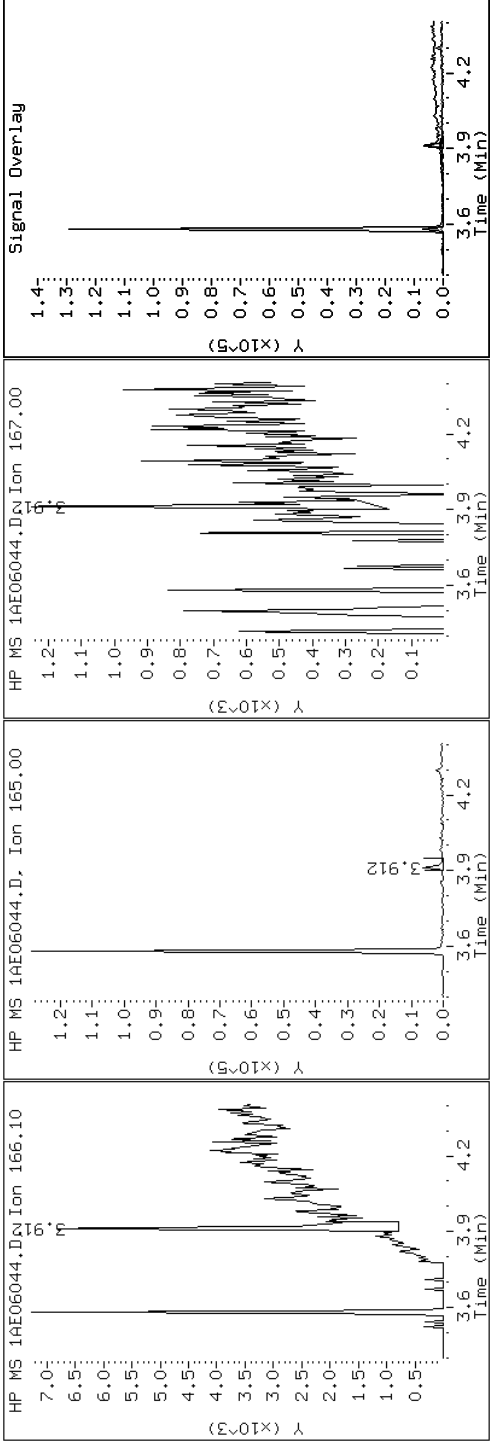
Client ID: HP0200A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-B-1-B

Operator: SCC

9 Fluorene



Data File: 1AE06044.D

Date: 06-MAY-2013 21:43

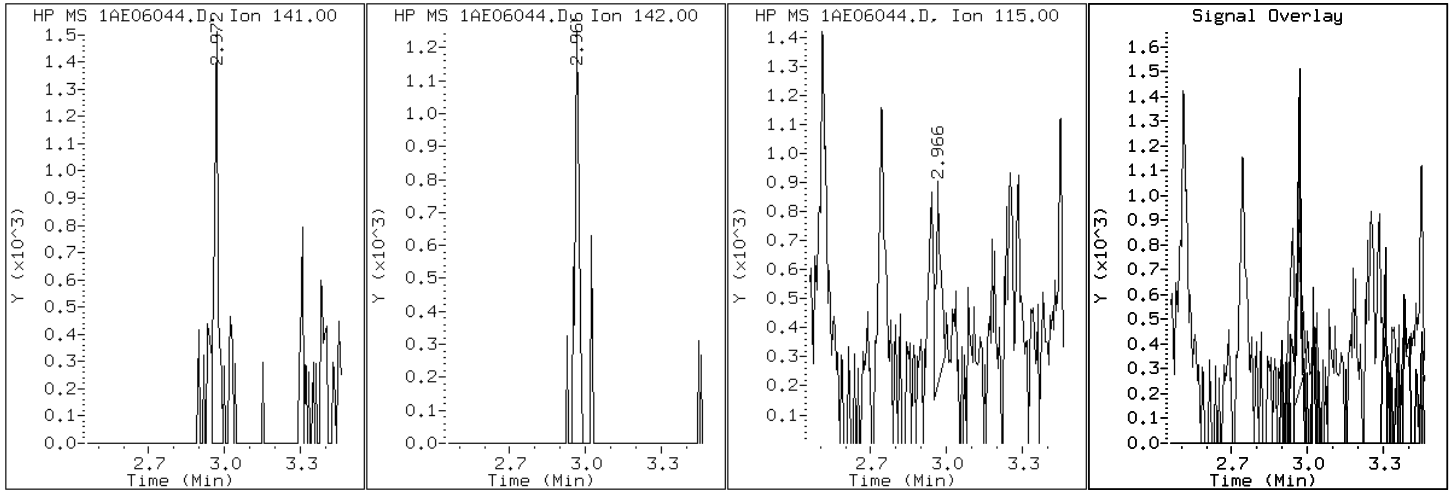
Client ID: HP0200A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-B-1-B

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AE06044.D

Date: 06-MAY-2013 21:43

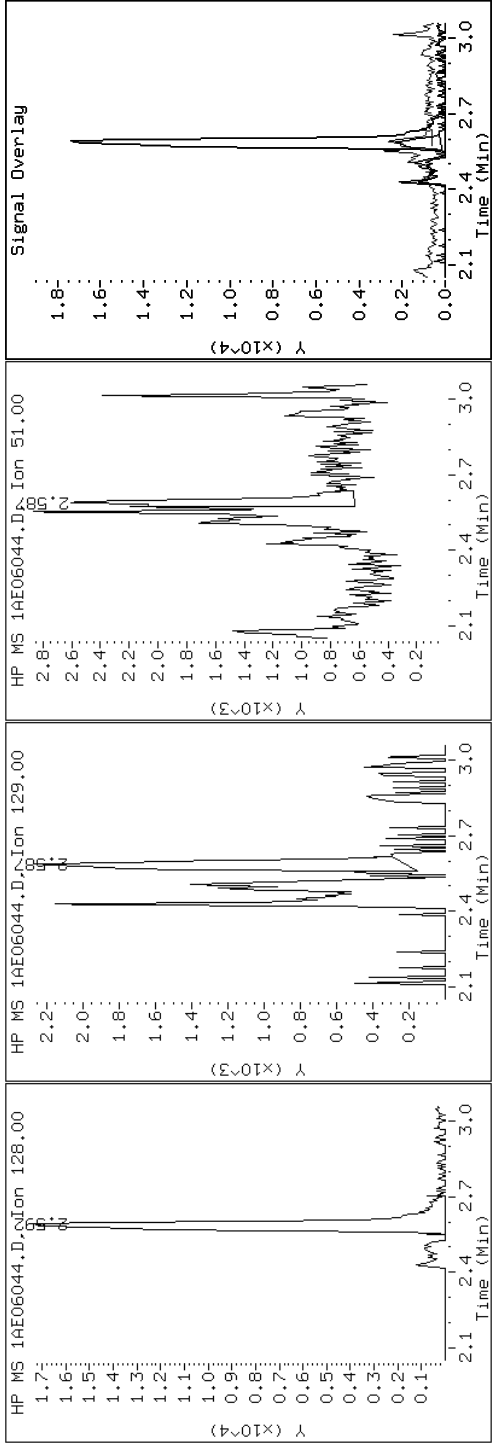
Client ID: HP0200A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-B-1-B

Operator: SCC

### 2 Naphthalene



Data File: 1AE06044.D

Date: 06-MAY-2013 21:43

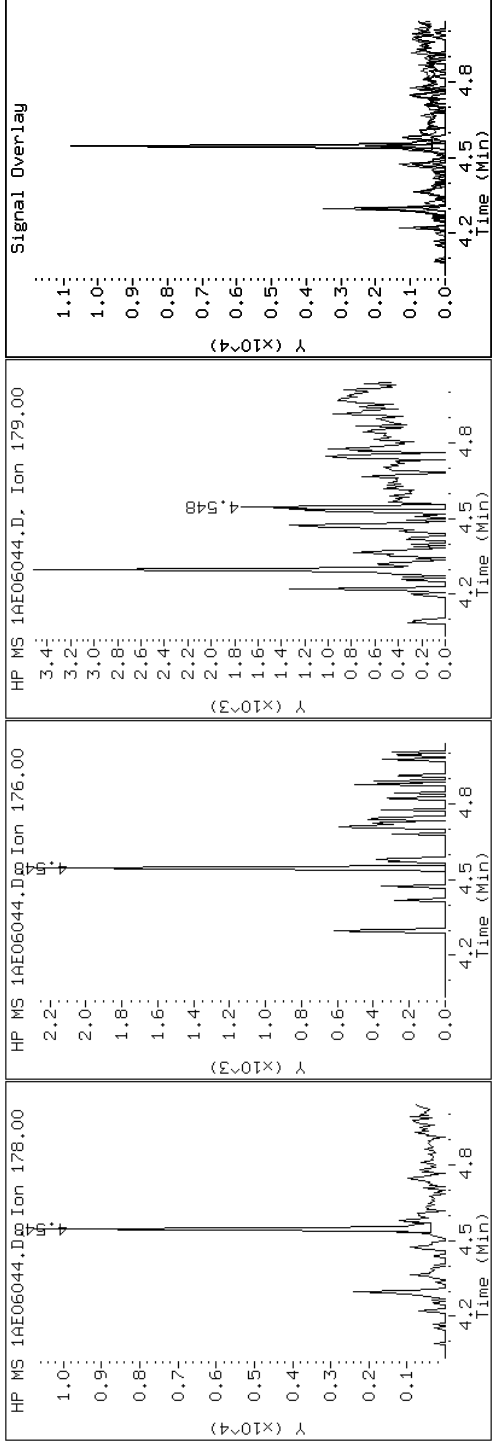
Client ID: HP0200A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-B-1-B

Operator: SCC

11 Phenanthrene



Data File: 1AE06044.D

Date: 06-MAY-2013 21:43

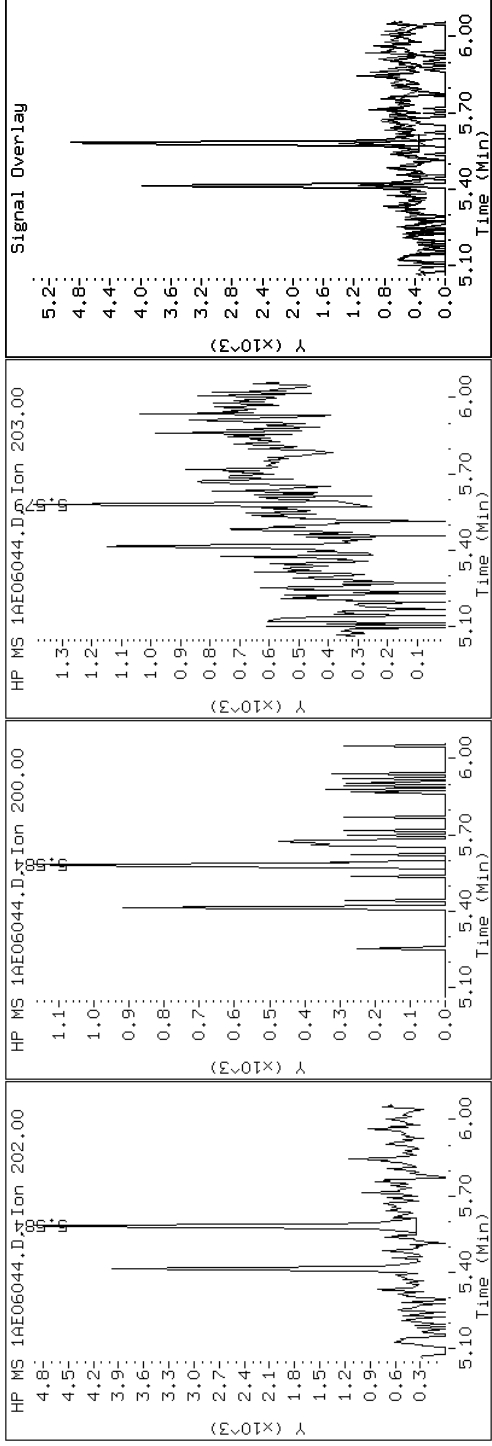
Client ID: HP0200A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-B-1-B

Operator: SCC

16 Pyrene

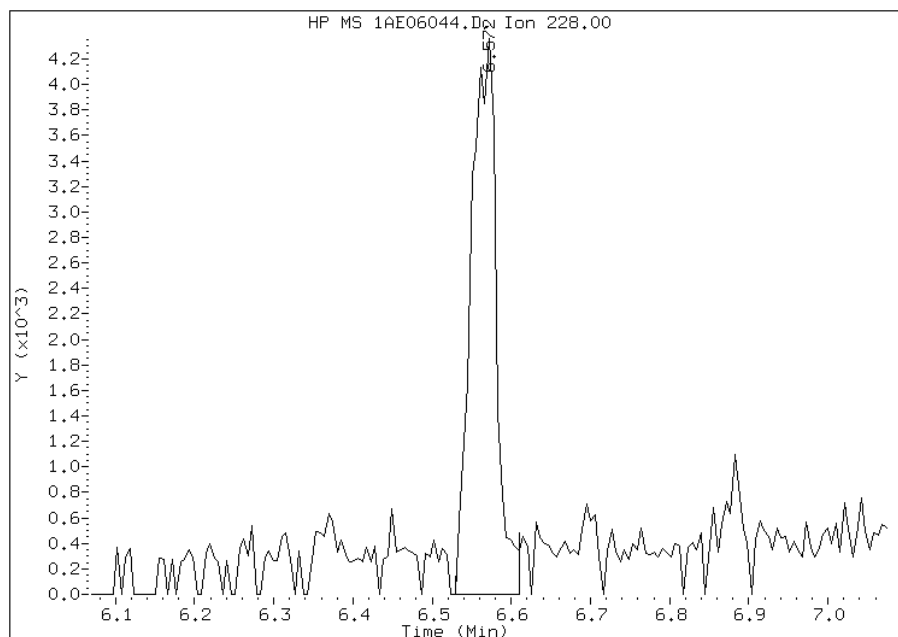


# Manual Integration Report

Data File: 1AE06044.D  
Inj. Date and Time: 06-MAY-2013 21:43  
Instrument ID: BSMA5973.i  
Client ID: HP0200A-CS-SP  
Compound: 17 Benzo(a)anthracene  
CAS #: 56-55-3  
Report Date: 05/07/2013

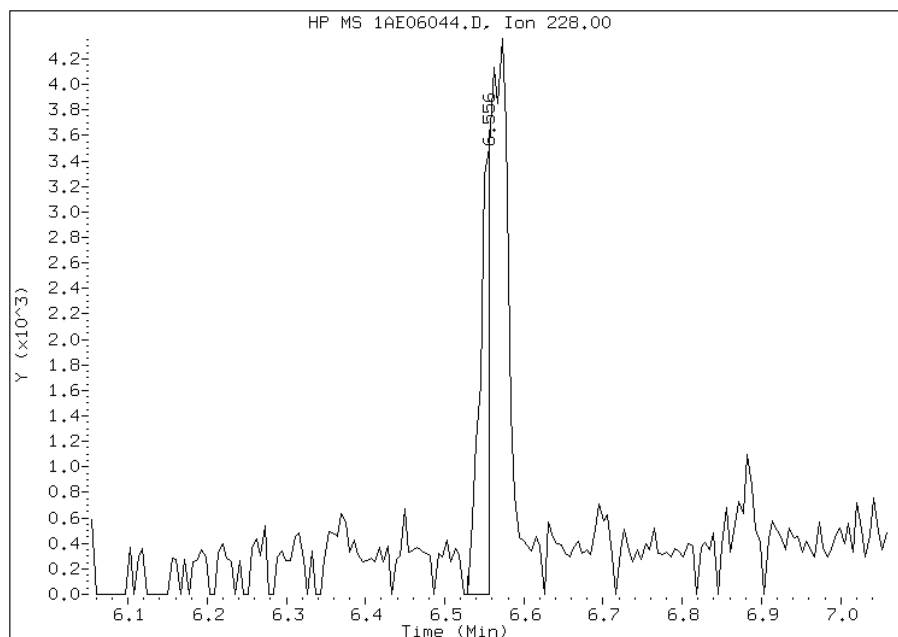
## Processing Integration Results

RT: 6.57  
Response: 9626  
Amount: 0  
Conc: 275



## Manual Integration Results

RT: 6.56  
Response: 3276  
Amount: 0  
Conc: 94



Manually Integrated By: cantins  
Modification Date: 07-May-2013 13:59  
Manual Integration Reason: Split Peak

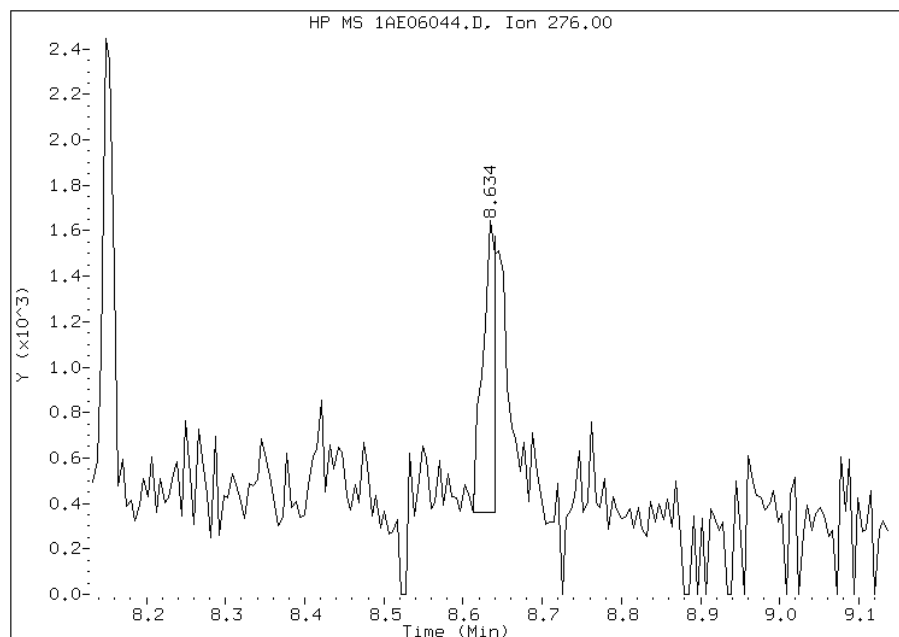


# Manual Integration Report

Data File: 1AE06044.D  
Inj. Date and Time: 06-MAY-2013 21:43  
Instrument ID: BSMA5973.i  
Client ID: HP0200A-CS-SP  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 05/07/2013

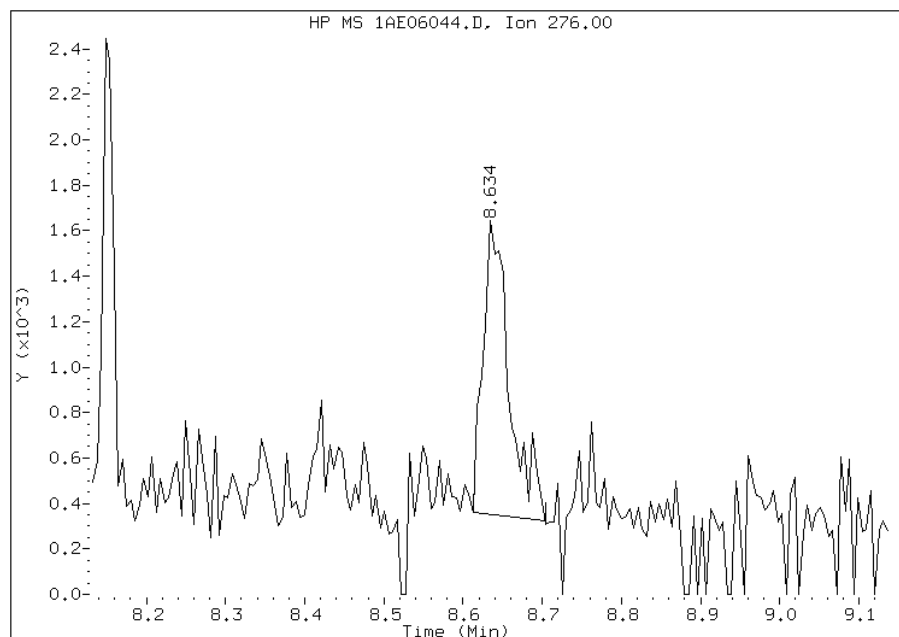
## Processing Integration Results

RT: 8.63  
Response: 1374  
Amount: 0  
Conc: 39



## Manual Integration Results

RT: 8.63  
Response: 2942  
Amount: 0  
Conc: 84



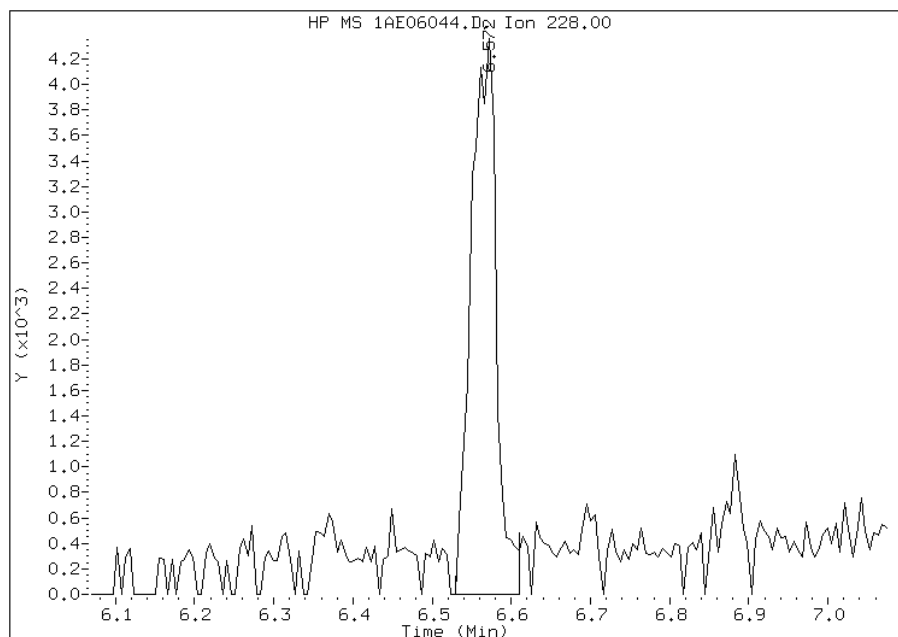
Manually Integrated By: cantins  
Modification Date: 07-May-2013 14:00  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE06044.D  
Inj. Date and Time: 06-MAY-2013 21:43  
Instrument ID: BSMA5973.i  
Client ID: HP0200A-CS-SP  
Compound: 19 Chrysene  
CAS #: 218-01-9  
Report Date: 05/07/2013

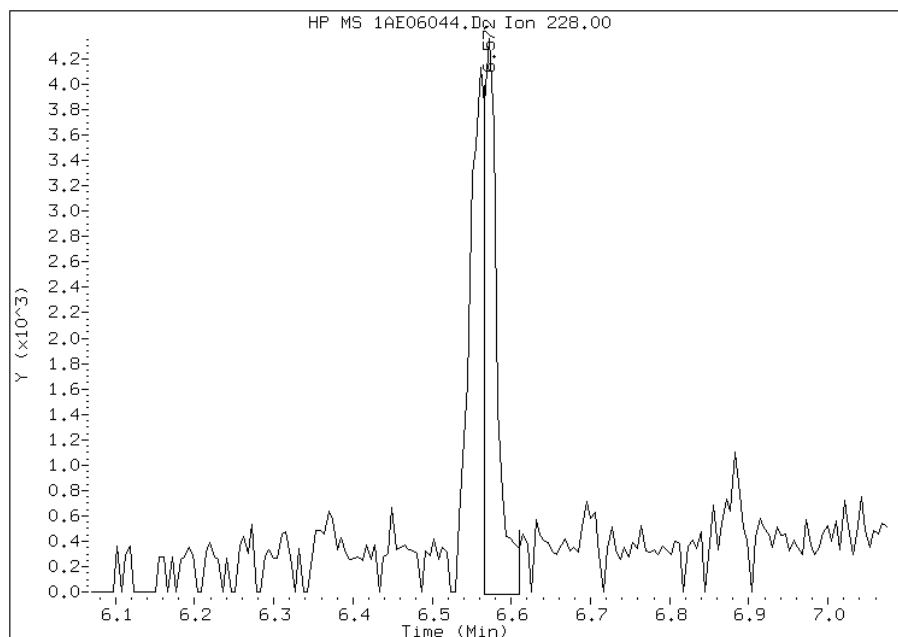
## Processing Integration Results

RT: 6.57  
Response: 9626  
Amount: 0  
Conc: 245



## Manual Integration Results

RT: 6.57  
Response: 5076  
Amount: 0  
Conc: 129



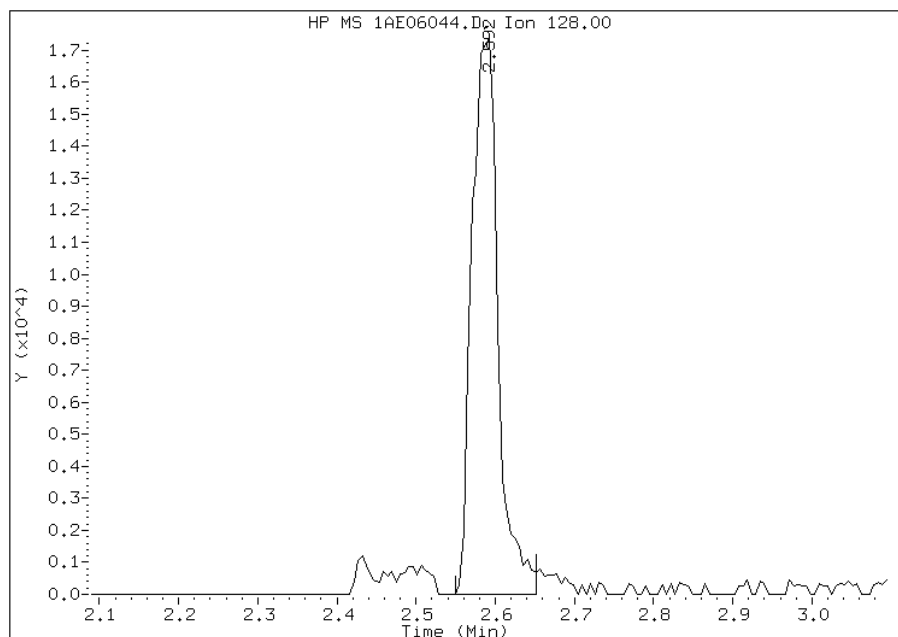
Manually Integrated By: cantins  
Modification Date: 07-May-2013 13:59  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE06044.D  
Inj. Date and Time: 06-MAY-2013 21:43  
Instrument ID: BSMA5973.i  
Client ID: HP0200A-CS-SP  
Compound: 2 Naphthalene  
CAS #: 91-20-3  
Report Date: 05/07/2013

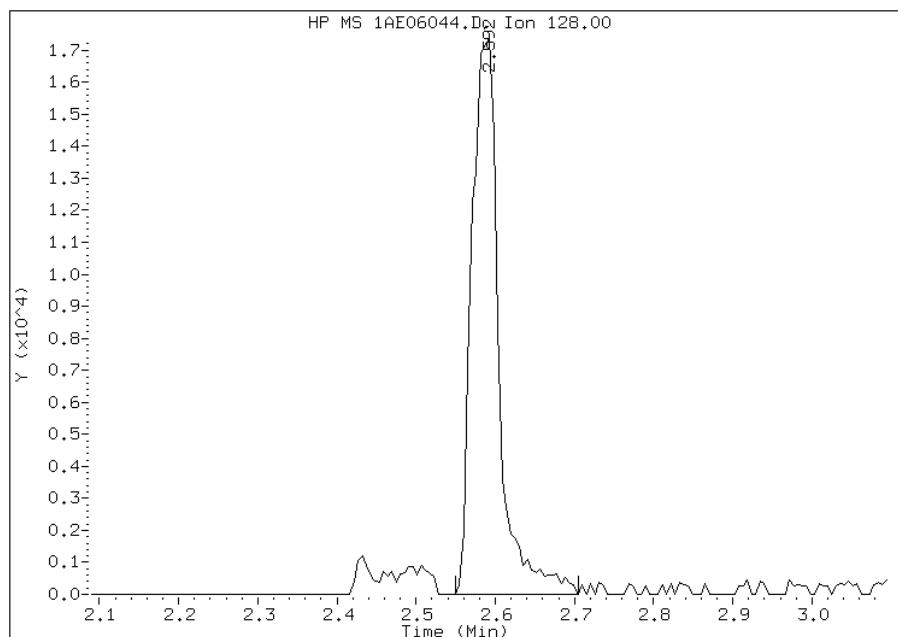
## Processing Integration Results

RT: 2.59  
Response: 39685  
Amount: 2  
Conc: 1228



## Manual Integration Results

RT: 2.59  
Response: 41082  
Amount: 2  
Conc: 1271



Manually Integrated By: cantins  
Modification Date: 07-May-2013 13:58  
Manual Integration Reason: Baseline Event

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: HP0200B-CS-SP Lab Sample ID: 680-89791-2  
 Matrix: Solid Lab File ID: 1AD30020.D  
 Analysis Method: 8270C LL Date Collected: 04/24/2013 10:30  
 Extract. Method: 3546 Date Extracted: 04/30/2013 09:33  
 Sample wt/vol: 15.09(g) Date Analyzed: 04/30/2013 16:12  
 Con. Extract Vol.: 10(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 15.9 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136977 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	1200	U F	1200	240
208-96-8	Acenaphthylene	470	U F	470	59
120-12-7	Anthracene	99	U F	99	50
56-55-3	Benzo[a]anthracene	95	U F	95	46
50-32-8	Benzo[a]pyrene	120	U F	120	61
205-99-2	Benzo[b]fluoranthene	72	J F	140	72
191-24-2	Benzo[g,h,i]perylene	76	J F	240	52
207-08-9	Benzo[k]fluoranthene	95	U F	95	43
218-01-9	Chrysene	120	F	110	53
53-70-3	Dibenz(a,h)anthracene	240	U F	240	48
206-44-0	Fluoranthene	76	J F	240	47
86-73-7	Fluorene	110	J F	240	48
193-39-5	Indeno[1,2,3-cd]pyrene	240	U F	240	84
90-12-0	1-Methylnaphthalene	470	U F	470	52
91-57-6	2-Methylnaphthalene	470	U F	470	84
91-20-3	Naphthalene	1400	F	470	52
85-01-8	Phenanthrene	190	F	95	46
129-00-0	Pyrene	78	J F	240	44

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	28	X	30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A043013.b\1AD30020.D  
 Lab Smp Id: 680-89791-C-2-A Client Smp ID: HP0200B-CS-SP  
 Inj Date : 30-APR-2013 16:12  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-89791-c-2-a  
 Misc Info : 680-89791-C-2-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A043013.b\A-BFASTPAHi-m.m  
 Meth Date : 30-Apr-2013 11:48 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 19  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	10.000	Final Volume
Ws	15.090	Weight Extracted
M	15.904	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL	ON-COLUMN	FINAL	
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136	2.575	2.568	(1.000)	1508774	40.0000	
* 6 Acenaphthene-d10	164	3.606	3.599	(1.000)	828756	40.0000	
* 10 Phenanthrene-d10	188	4.557	4.550	(1.000)	1393953	40.0000	
\$ 14 o-Terphenyl	230	4.856	4.854	(1.066)	6303	0.27645	217.8446(R)
* 18 Chrysene-d12	240	6.587	6.574	(1.000)	1498700	40.0000	
* 23 Perylene-d12	264	7.687	7.659	(1.000)	1697971	40.0000	
2 Naphthalene	128	2.607	2.578	(1.012)	66872	1.77303	1397.1784(M)
9 Fluorene	166	3.937	3.930	(1.092)	4267	0.13963	110.0279
11 Phenanthrene	178	4.573	4.566	(1.004)	9786	0.24235	190.9742
15 Fluoranthene	202	5.438	5.431	(1.193)	4511	0.09672	76.2170
16 Pyrene	202	5.604	5.597	(0.851)	5662	0.09903	78.0348
19 Chrysene	228	6.597	6.590	(1.002)	7266	0.14633	115.3131(M)
20 Benzo(b)fluoranthene	252	7.399	7.381	(0.962)	4724	0.09164	72.2141(M)
26 Benzo(g,h,i)perylene	276	8.665	8.647	(1.127)	5246	0.09680	76.2827

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: 1AD30020.D

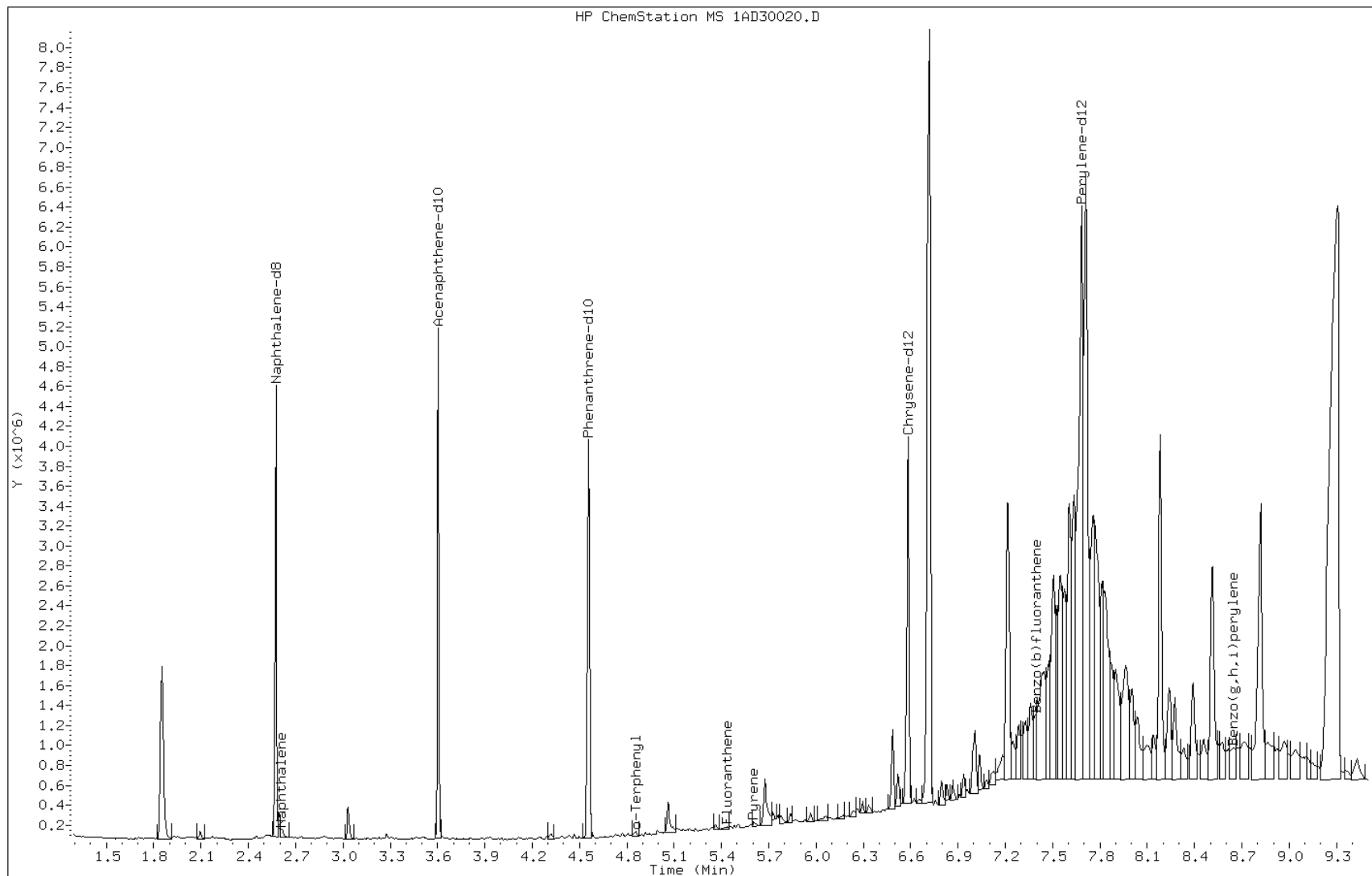
Date: 30-APR-2013 16:12

Client ID: HP0200B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-c-2-a

Operator: SCC



Data File: 1AD30020.D

Date: 30-APR-2013 16:12

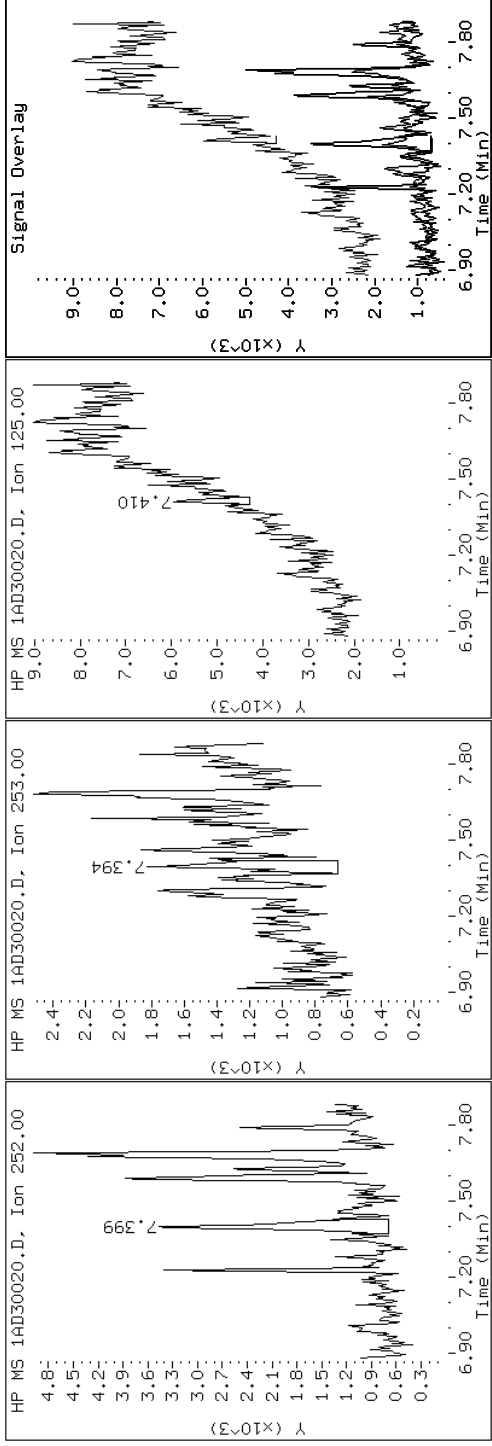
Client ID: HP0200B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-c-2-a

Operator: SCC

20 Benzo(b)fluoranthene





Data File: 1AD30020.D

Date: 30-APR-2013 16:12

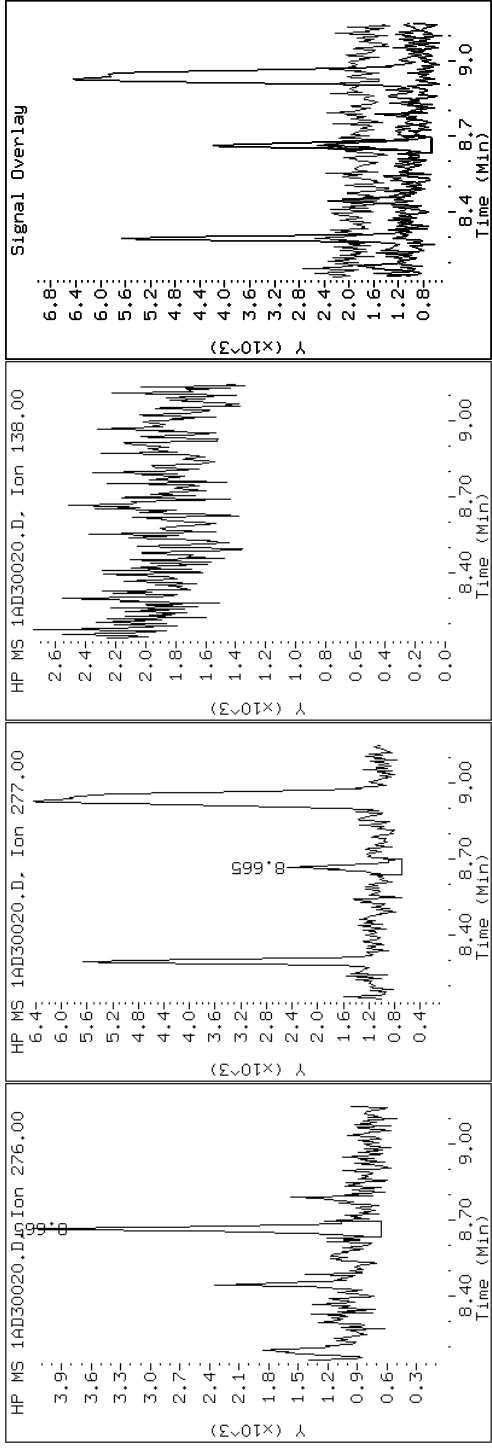
Client ID: HP0200B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-c-2-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AD30020.D

Date: 30-APR-2013 16:12

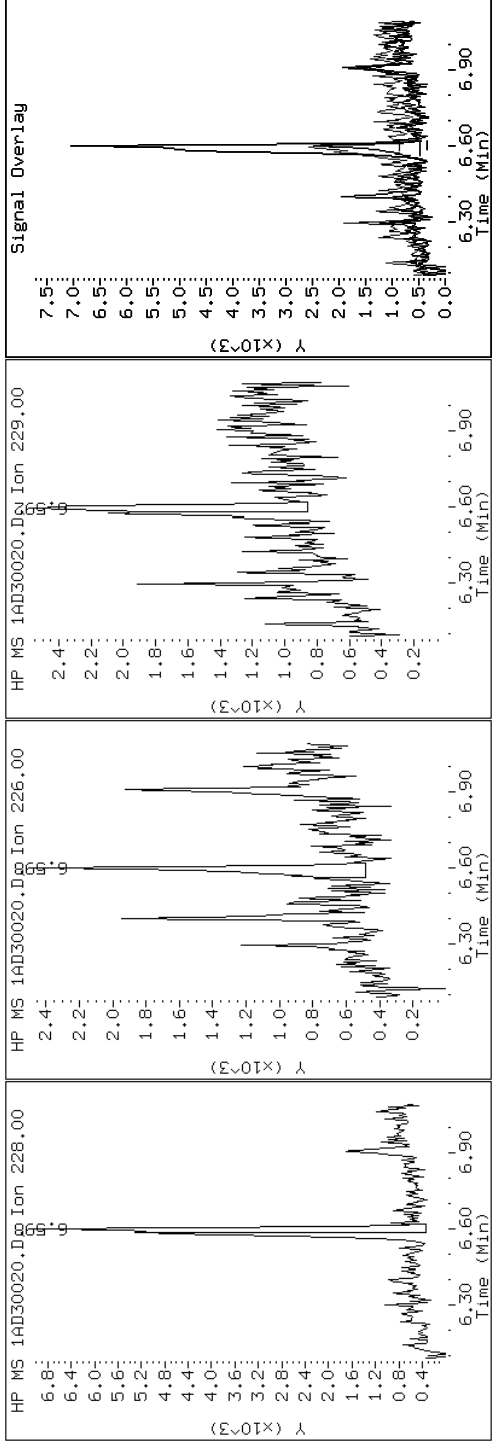
Client ID: HP0200B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-c-2-a

Operator: SCC

19 Chrysene



Data File: 1AD30020.D

Date: 30-APR-2013 16:12

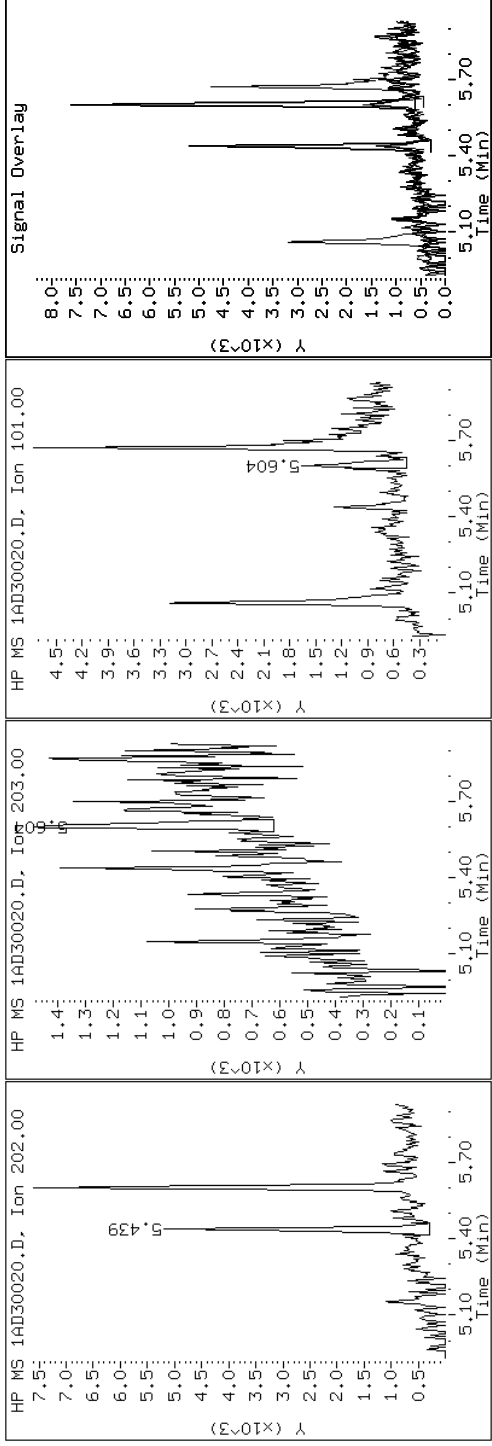
Client ID: HP0200B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-c-2-a

Operator: SCC

15 Fluoranthene



Data File: 1AD30020.D

Date: 30-APR-2013 16:12

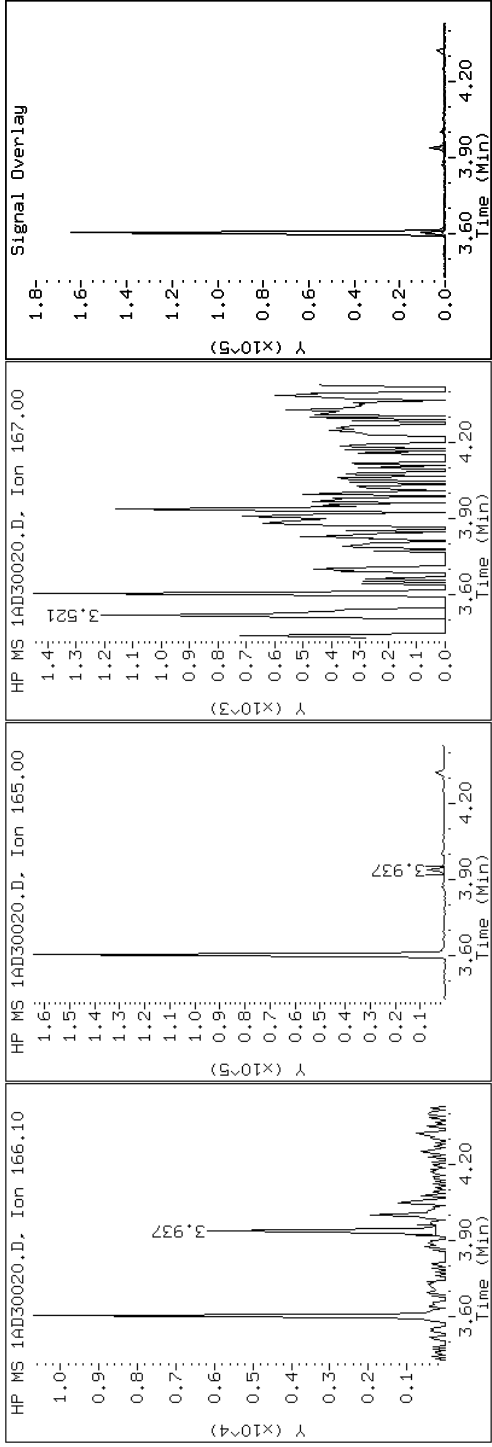
Client ID: HP0200B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-c-2-a

Operator: SCC

9 Fluorene



Data File: 1AD30020.D

Date: 30-APR-2013 16:12

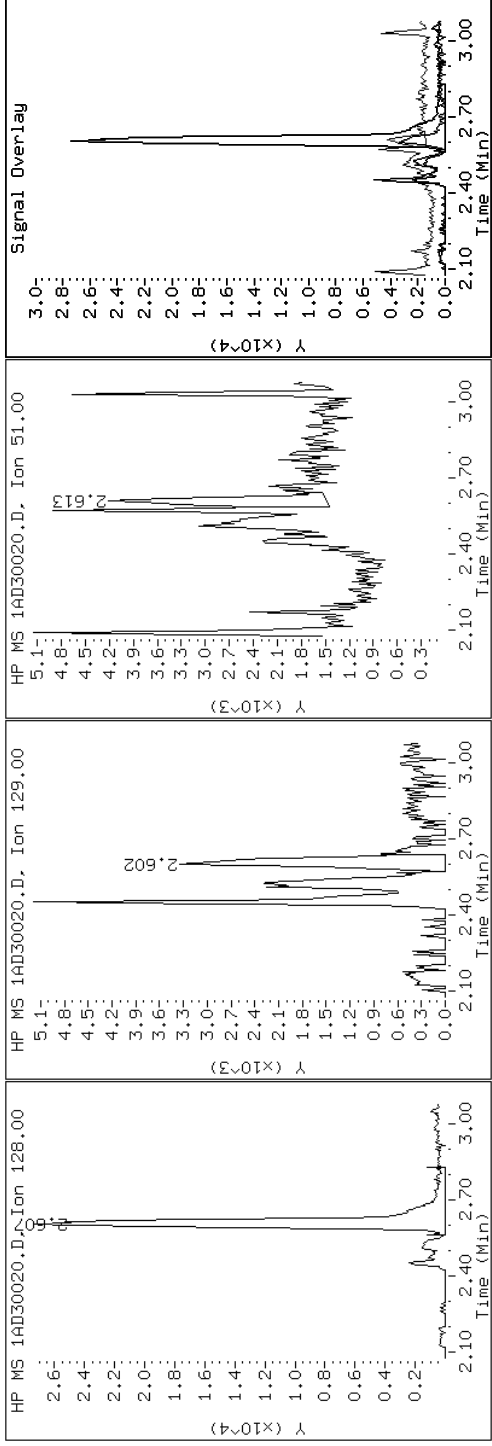
Client ID: HP0200B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-c-2-a

Operator: SCC

2 Naphthalene



Data File: 1AD30020.D

Date: 30-APR-2013 16:12

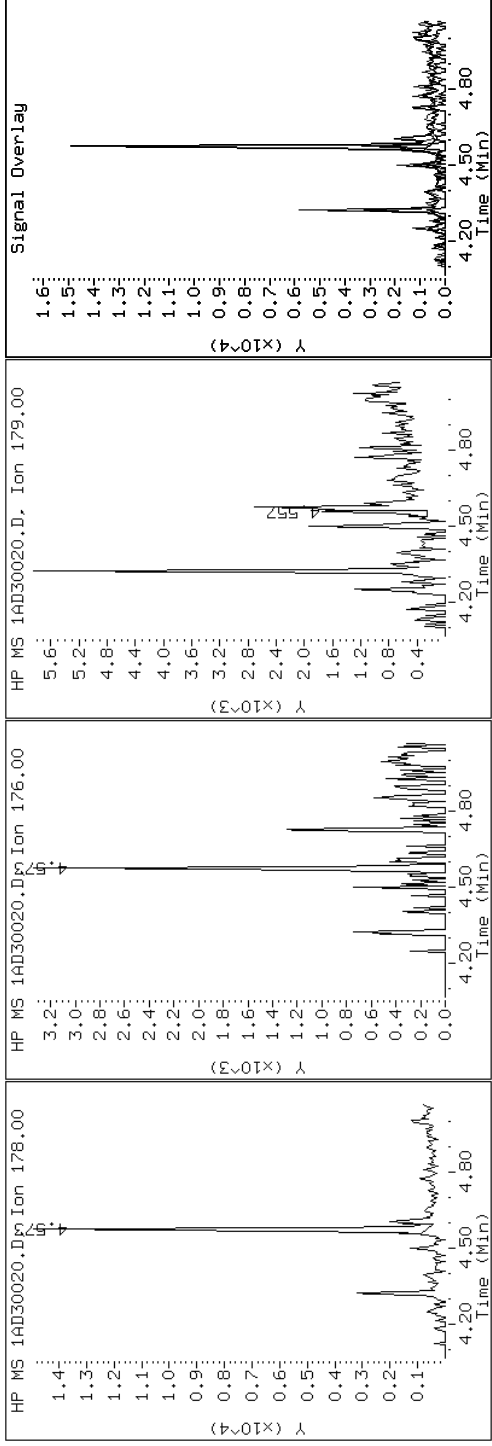
Client ID: HP0200B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-c-2-a

Operator: SCC

11 Phenanthrene



Data File: 1AD30020.D

Date: 30-APR-2013 16:12

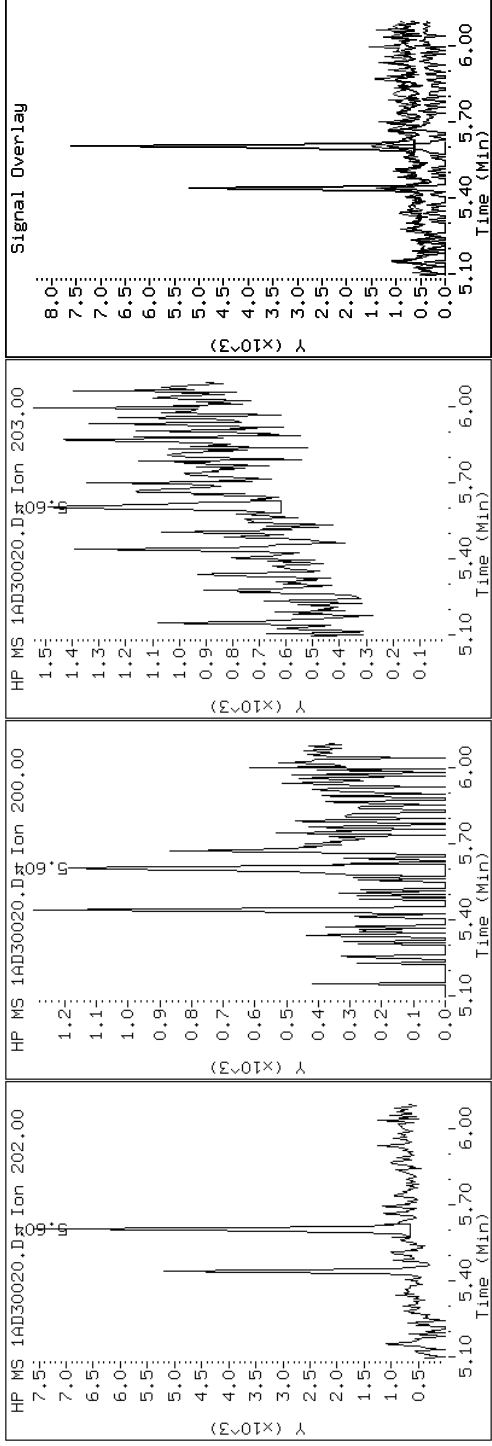
Client ID: HP0200B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-c-2-a

Operator: SCC

16 Pyrene

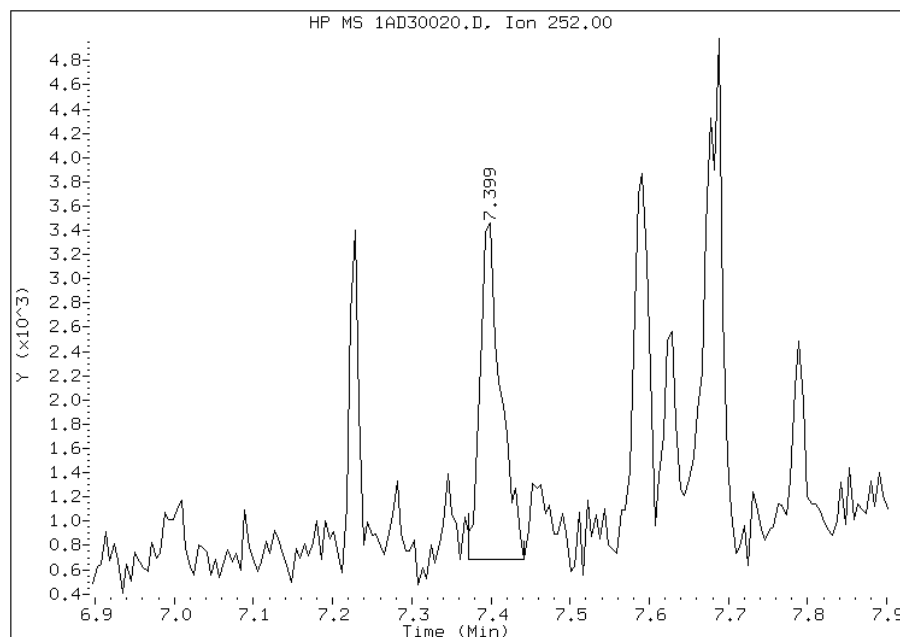


# Manual Integration Report

Data File: 1AD30020.D  
Inj. Date and Time: 30-APR-2013 16:12  
Instrument ID: BSMA5973.i  
Client ID: HP0200B-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/30/2013

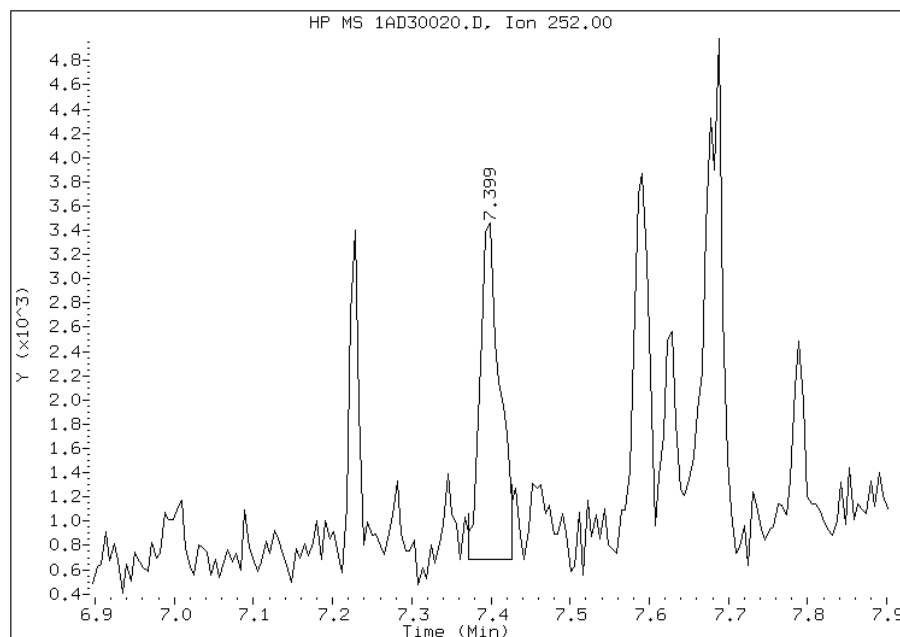
## Processing Integration Results

RT: 7.40  
Response: 4977  
Amount: 0  
Conc: 76



## Manual Integration Results

RT: 7.40  
Response: 4724  
Amount: 0  
Conc: 72



Manually Integrated By: cantins  
Modification Date: 30-Apr-2013 16:34  
Manual Integration Reason: Split Peak

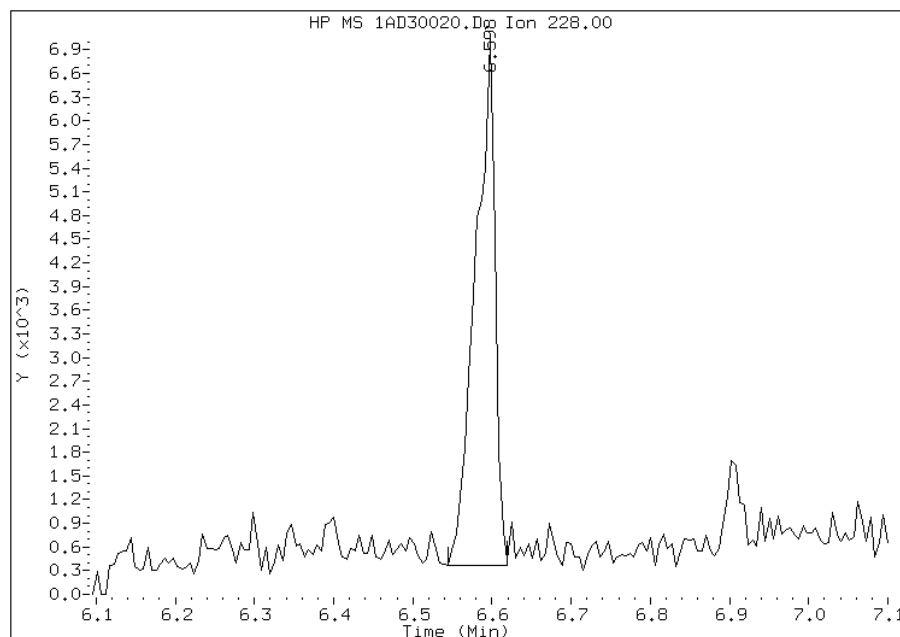


# Manual Integration Report

Data File: 1AD30020.D  
Inj. Date and Time: 30-APR-2013 16:12  
Instrument ID: BSMA5973.i  
Client ID: HP0200B-CS-SP  
Compound: 19 Chrysene  
CAS #: 218-01-9  
Report Date: 04/30/2013

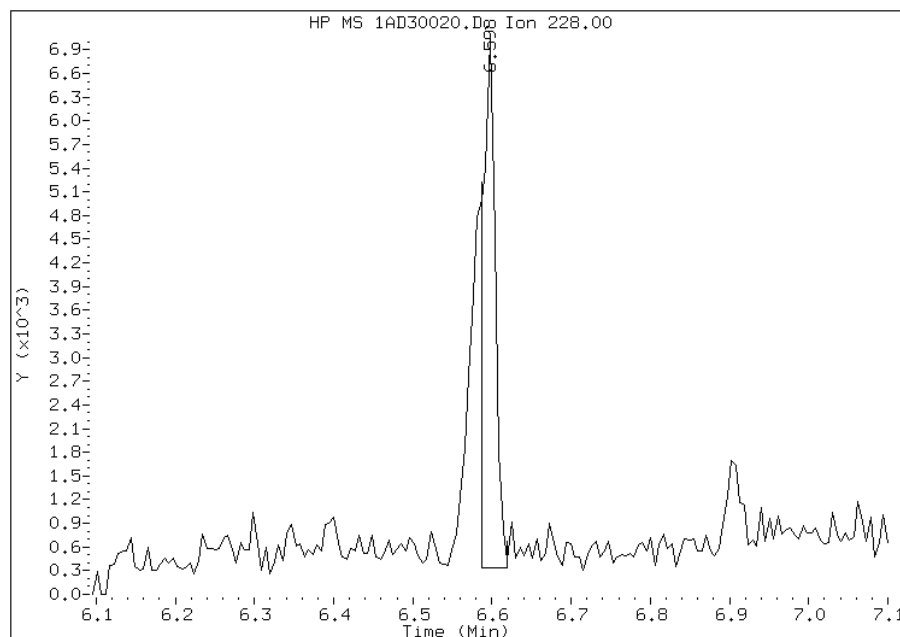
## Processing Integration Results

RT: 6.60  
Response: 11468  
Amount: 0  
Conc: 182



## Manual Integration Results

RT: 6.60  
Response: 7266  
Amount: 0  
Conc: 115



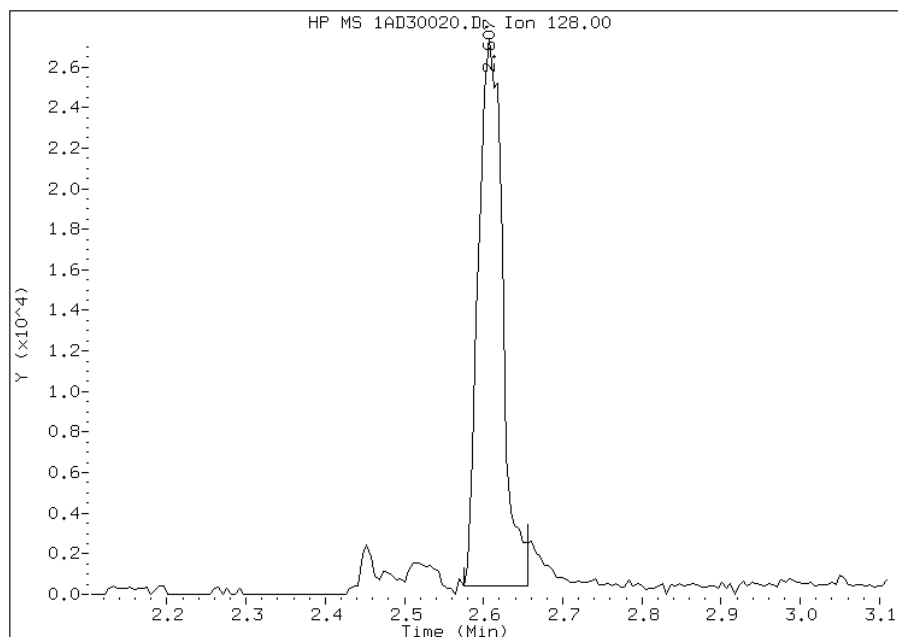
Manually Integrated By: cantins  
Modification Date: 30-Apr-2013 16:35  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AD30020.D  
Inj. Date and Time: 30-APR-2013 16:12  
Instrument ID: BSMA5973.i  
Client ID: HP0200B-CS-SP  
Compound: 2 Naphthalene  
CAS #: 91-20-3  
Report Date: 04/30/2013

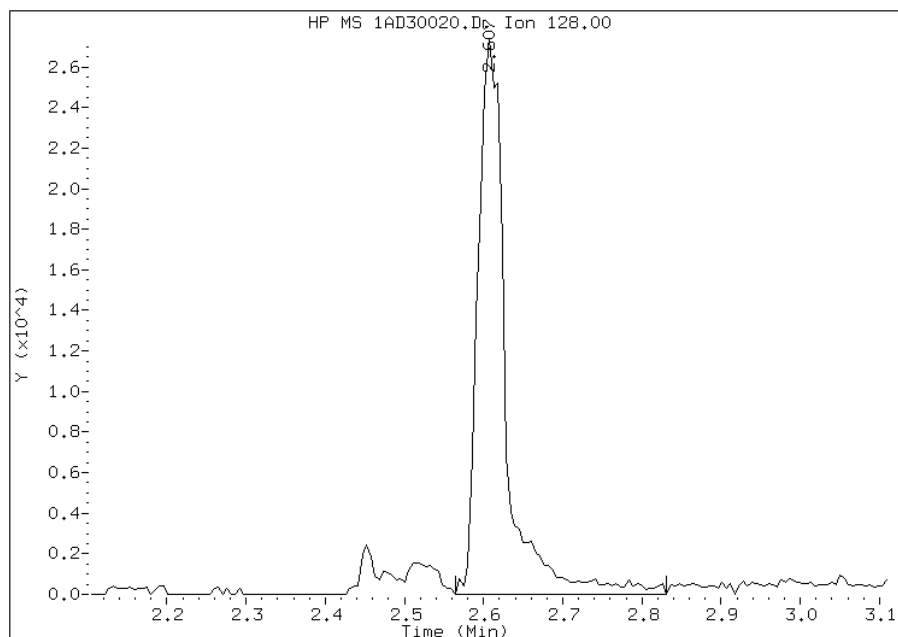
## Processing Integration Results

RT: 2.61  
Response: 56985  
Amount: 2  
Conc: 1191



## Manual Integration Results

RT: 2.61  
Response: 66872  
Amount: 2  
Conc: 1397



Manually Integrated By: cantins  
Modification Date: 30-Apr-2013 16:36  
Manual Integration Reason: Baseline Event

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: HP0232A-CS-SP Lab Sample ID: 680-89791-3  
 Matrix: Solid Lab File ID: 1AE01021.D  
 Analysis Method: 8270C LL Date Collected: 04/24/2013 09:27  
 Extract. Method: 3546 Date Extracted: 04/29/2013 14:27  
 Sample wt/vol: 15.02(g) Date Analyzed: 05/01/2013 18:03  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 19.3 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137001 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	11	J	50	6.2
120-12-7	Anthracene	17		10	5.2
56-55-3	Benzo[a]anthracene	62		9.9	4.8
50-32-8	Benzo[a]pyrene	54		13	6.4
205-99-2	Benzo[b]fluoranthene	100		15	7.6
191-24-2	Benzo[g,h,i]perylene	42		25	5.4
207-08-9	Benzo[k]fluoranthene	30		9.9	4.5
218-01-9	Chrysene	96		11	5.6
53-70-3	Dibenz(a,h)anthracene	13	J	25	5.1
206-44-0	Fluoranthene	92		25	5.0
86-73-7	Fluorene	8.8	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	38		25	8.8
90-12-0	1-Methylnaphthalene	56		50	5.4
91-57-6	2-Methylnaphthalene	64		50	8.8
91-20-3	Naphthalene	71		50	5.4
85-01-8	Phenanthrene	110		9.9	4.8
129-00-0	Pyrene	73		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	46		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01021.D  
 Lab Smp Id: 680-89791-A-3-A Client Smp ID: HP0232A-CS-SP  
 Inj Date : 01-MAY-2013 18:03  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-89791-a-3-a  
 Misc Info : 680-89791-A-3-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\a-bFASTPAHi-m.m  
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 18  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	Weight Extracted
M	19.313	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.568	2.563	(1.000)	1368700	40.0000		
* 6 Acenaphthene-d10	164		3.599	3.594	(1.000)	675741	40.0000		
* 10 Phenanthrene-d10	188		4.555	4.544	(1.000)	1118963	40.0000		
\$ 14 o-Terphenyl	230		4.849	4.844	(1.064)	84463	4.61490	380.7943	
* 18 Chrysene-d12	240		6.591	6.574	(1.000)	1186017	40.0000		
* 23 Perylene-d12	264		7.686	7.659	(1.000)	1475514	40.0000		
2 Naphthalene	128		2.579	2.573	(1.004)	29592	0.86489	71.3657	
3 2-Methylnaphthalene	141		2.985	2.979	(1.162)	15267	0.77829	64.2200	
4 1-Methylnaphthalene	142		3.038	3.033	(1.183)	14725	0.67754	55.9067	
5 Acenaphthylene	152		3.508	3.503	(0.975)	5278	0.13365	11.0277(Q)	
9 Fluorene	166		3.930	3.925	(1.092)	2647	0.10623	8.7654(Q)	
11 Phenanthrene	178		4.566	4.560	(1.002)	43210	1.33306	109.9963	
12 Anthracene	178		4.598	4.593	(1.009)	6998	0.20763	17.1326	
13 Carbazole	167		4.737	4.726	(1.040)	6877	0.21151	17.4525	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.437	5.426	(1.193)	41677	1.11320	91.8543
16 Pyrene	202	5.602	5.592	(0.850)	40184	0.88810	73.2803
17 Benzo(a)anthracene	228	6.580	6.558	(0.998)	29102	0.75137	61.9987
19 Chrysene	228	6.601	6.590	(1.002)	45880	1.16760	96.3435
20 Benzo(b)fluoranthene	252	7.397	7.381	(0.962)	55668	1.24271	102.5409(M)
21 Benzo(k)fluoranthene	252	7.413	7.402	(0.965)	18658	0.36226	29.8919(QM)
22 Benzo(a)pyrene	252	7.627	7.605	(0.992)	29034	0.65152	53.7595
24 Indeno(1,2,3-cd)pyrene	276	8.455	8.423	(1.100)	19407	0.46122	38.0574(M)
25 Dibenzo(a,h)anthracene	278	8.476	8.450	(1.103)	6137	0.15675	12.9343
26 Benzo(g,h,i)perylene	276	8.685	8.642	(1.130)	23937	0.50830	41.9417

QC Flag Legend

Q - Qualifier signal failed the ratio test.  
 M - Compound response manually integrated.

Data File: 1AE01021.D

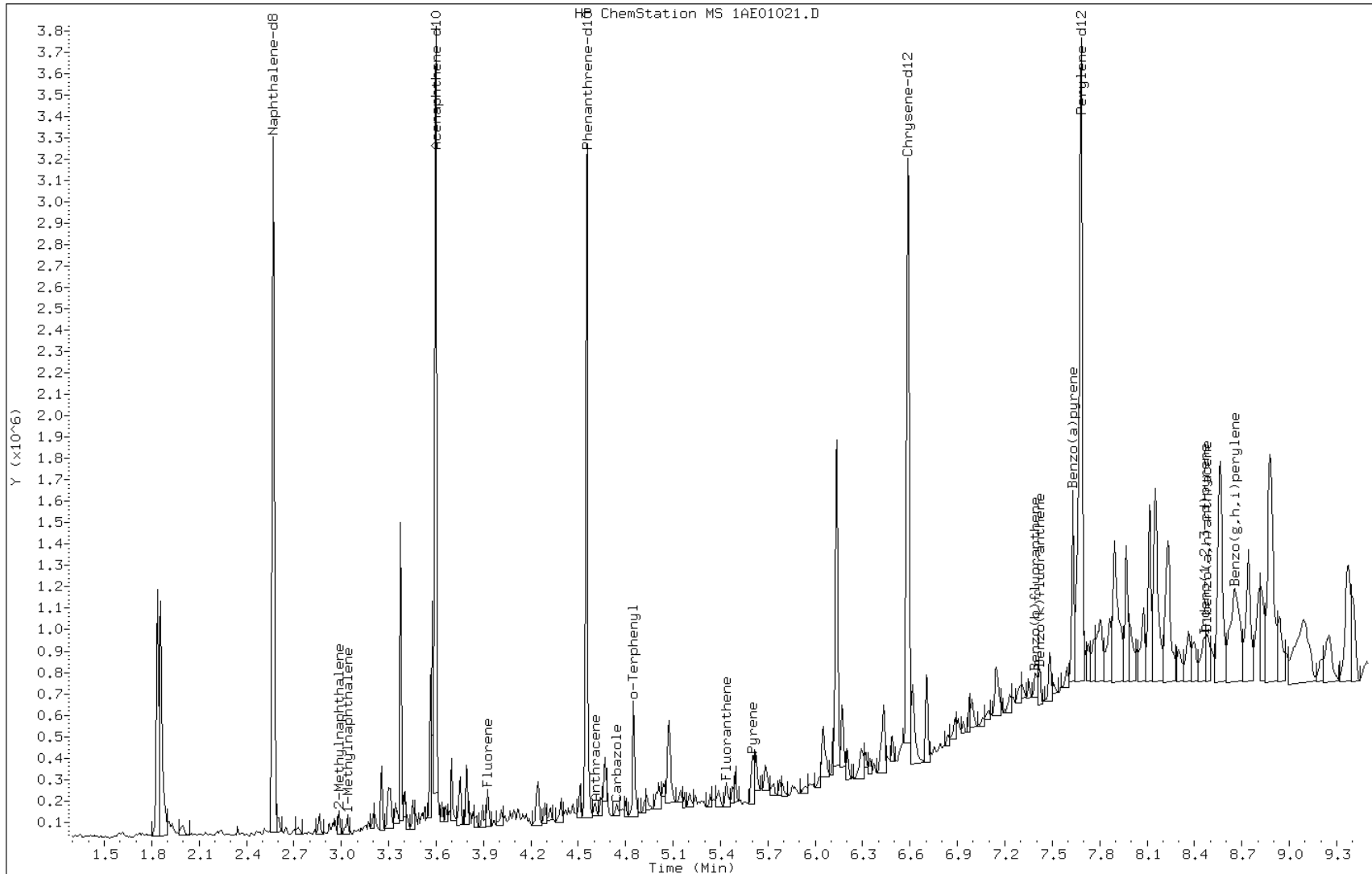
Date: 01-MAY-2013 18:03

Client ID: HP0232A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-3-a

Operator: SCC



Data File: 1AE01021.D

Date: 01-MAY-2013 18:03

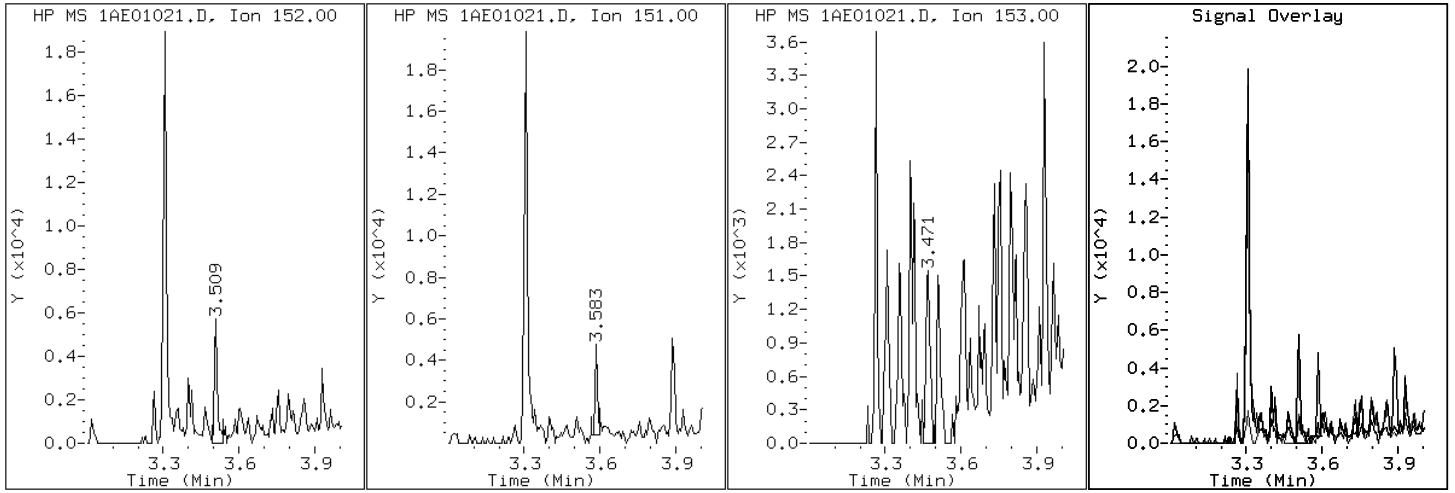
Client ID: HP0232A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-3-a

Operator: SCC

5 Acenaphthylene



Data File: 1AE01021.D

Date: 01-MAY-2013 18:03

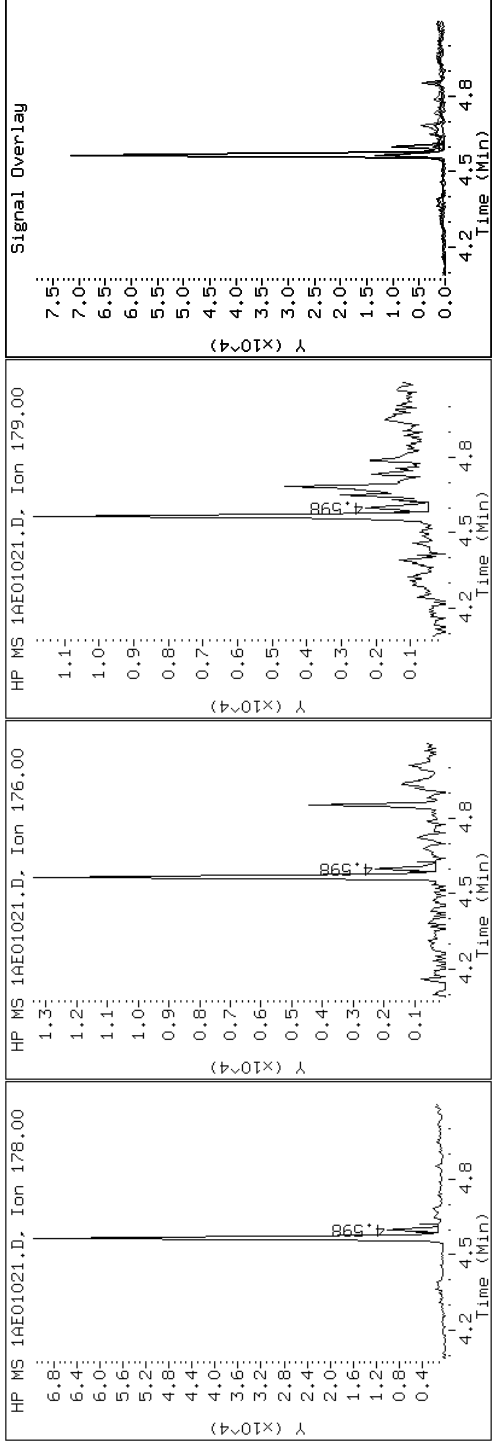
Client ID: HP0232A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-3-a

Operator: SCC

12 Anthracene





Data File: 1AE01021.D

Date: 01-MAY-2013 18:03

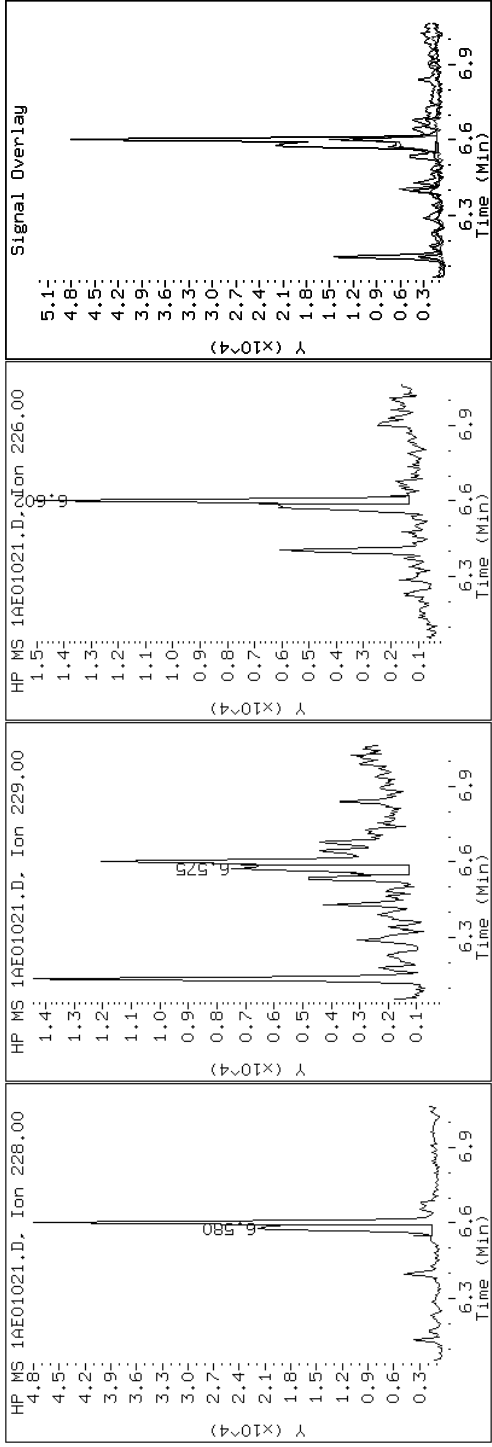
Client ID: HP0232A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-3-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AE01021.D

Date: 01-MAY-2013 18:03

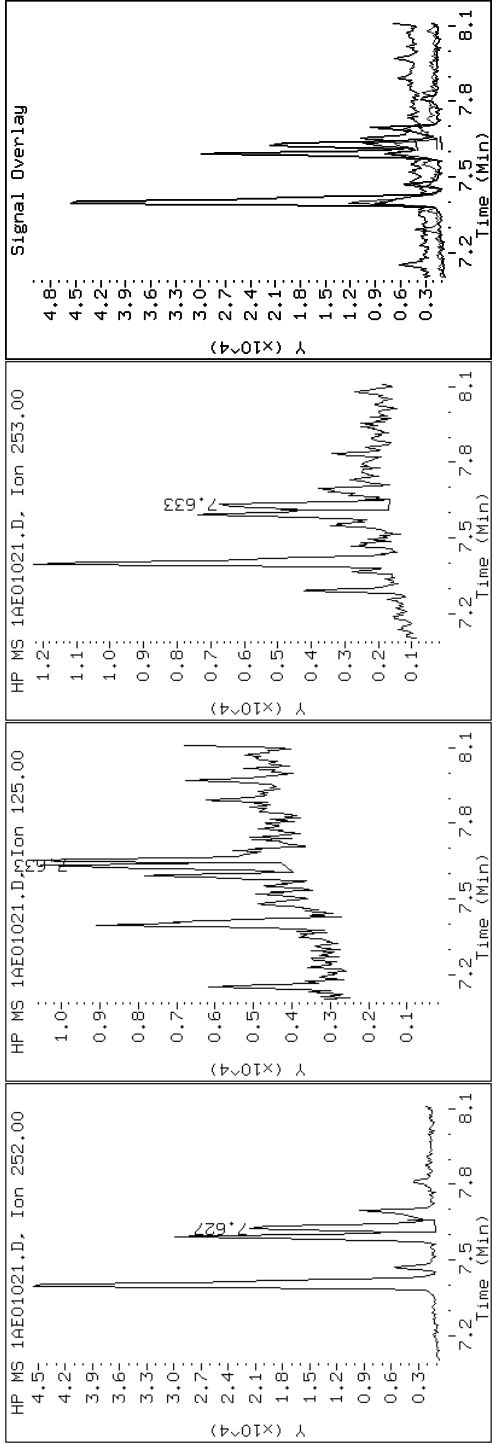
Client ID: HP0232A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-3-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AE01021.D

Date: 01-MAY-2013 18:03

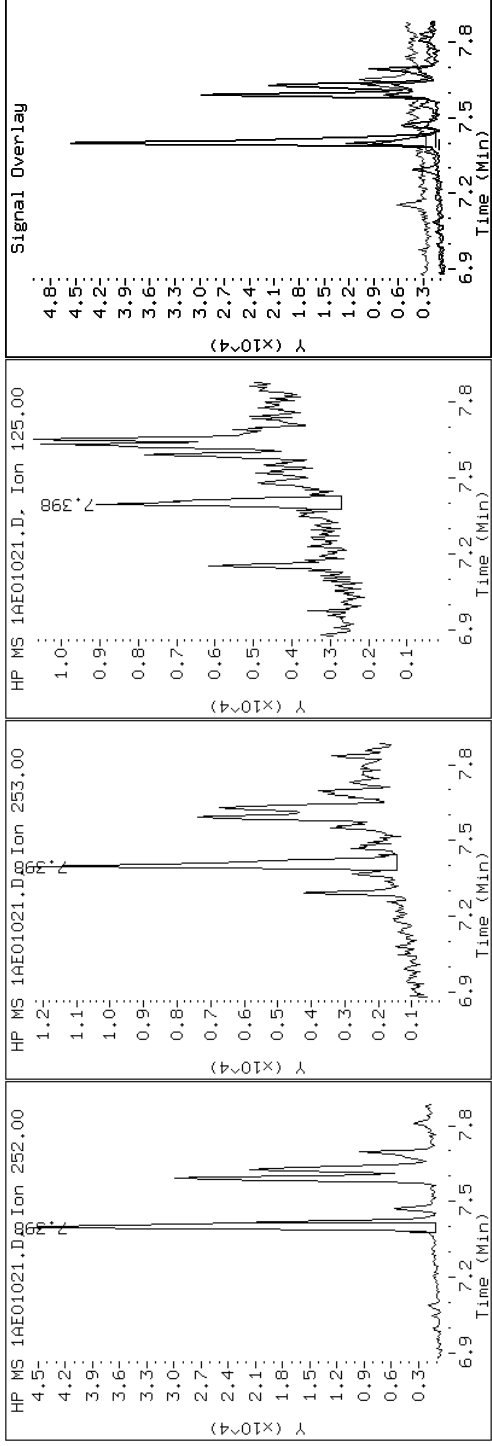
Client ID: HP0232A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-3-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AE01021.D

Date: 01-MAY-2013 18:03

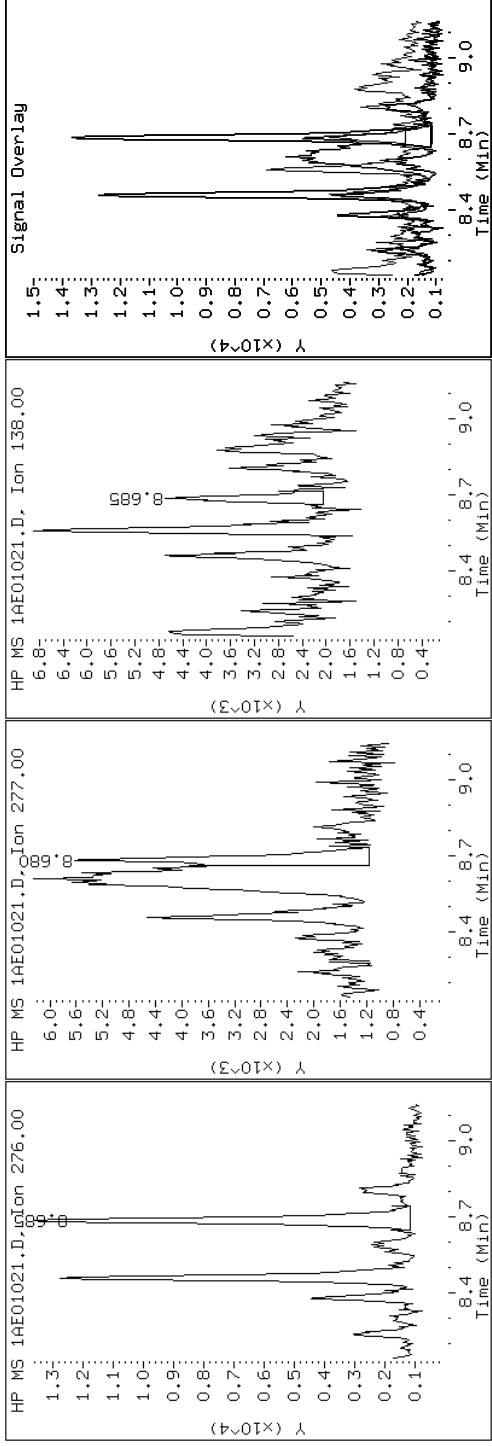
Client ID: HP0232A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-3-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AE01021.D

Date: 01-MAY-2013 18:03

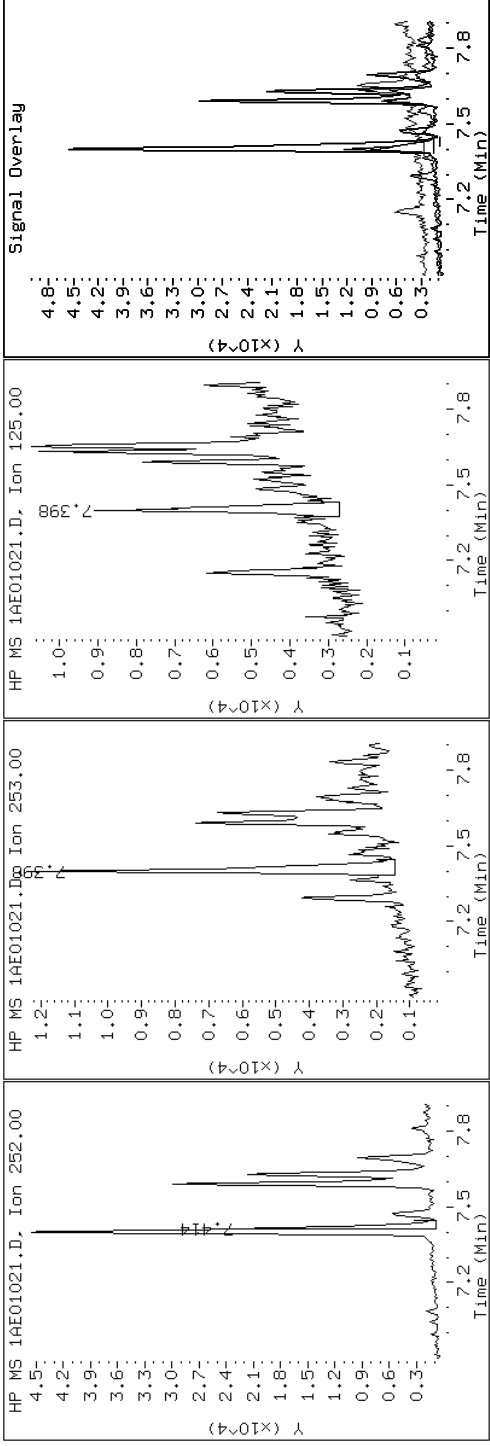
Client ID: HP0232A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-3-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AE01021.D

Date: 01-MAY-2013 18:03

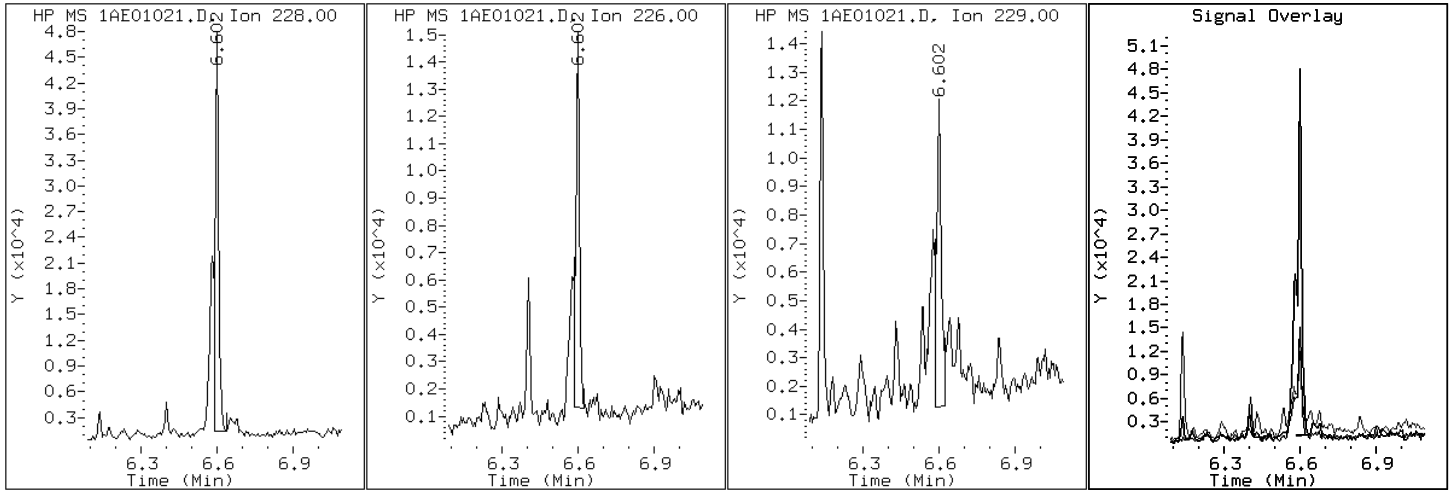
Client ID: HP0232A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-3-a

Operator: SCC

19 Chrysene



Data File: 1AE01021.D

Date: 01-MAY-2013 18:03

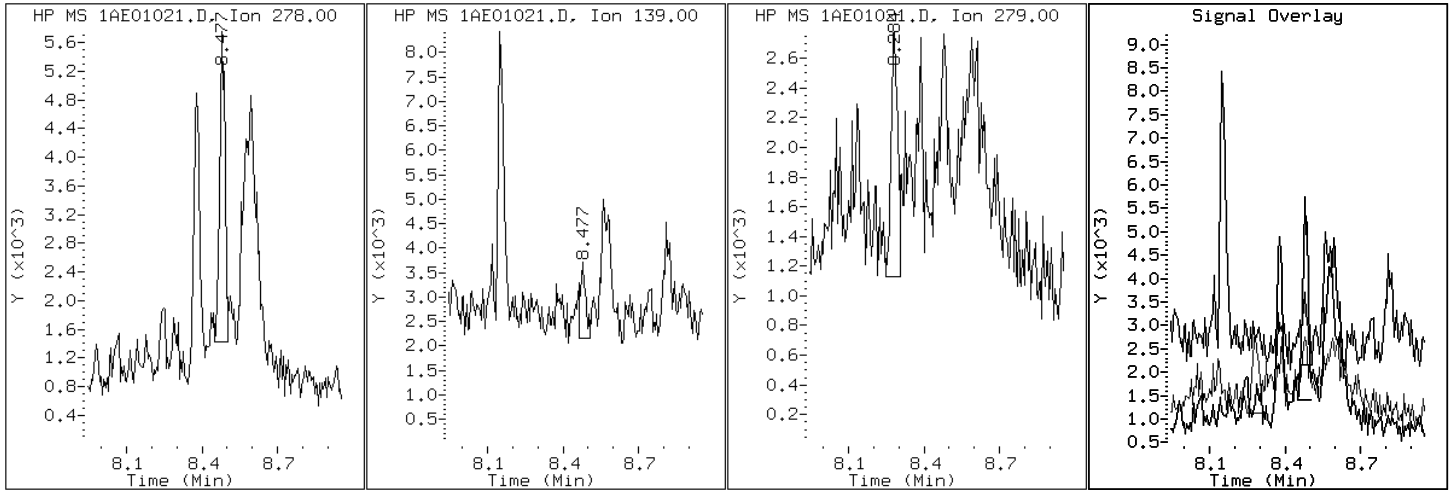
Client ID: HP0232A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-3-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AE01021.D

Date: 01-MAY-2013 18:03

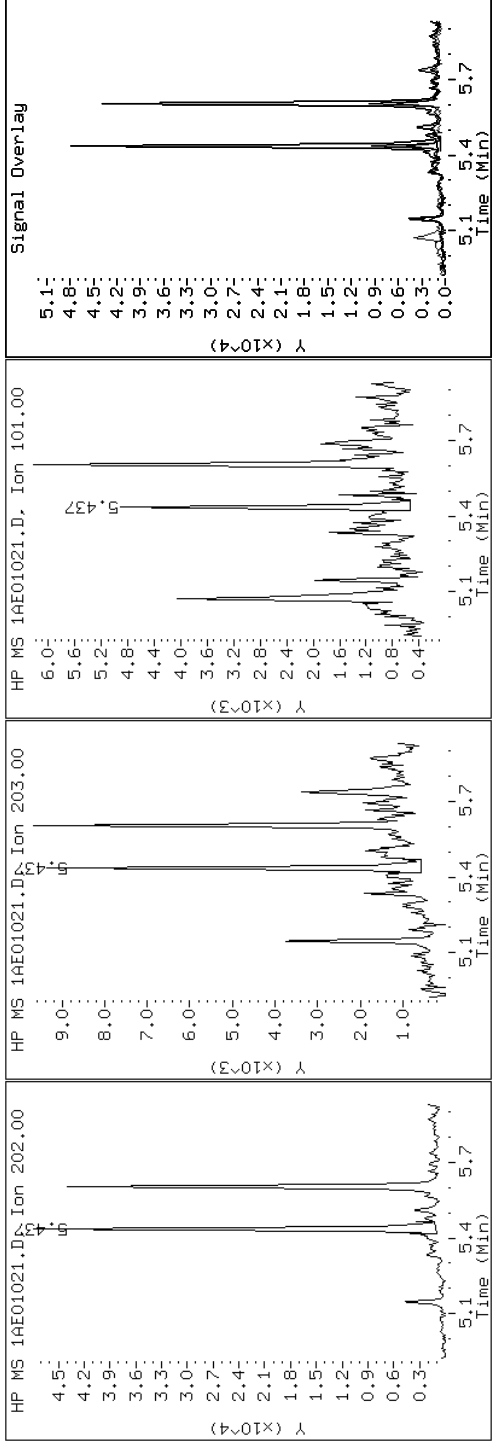
Client ID: HP0232A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-3-a

Operator: SCC

15 Fluoranthene





Data File: 1AE01021.D

Date: 01-MAY-2013 18:03

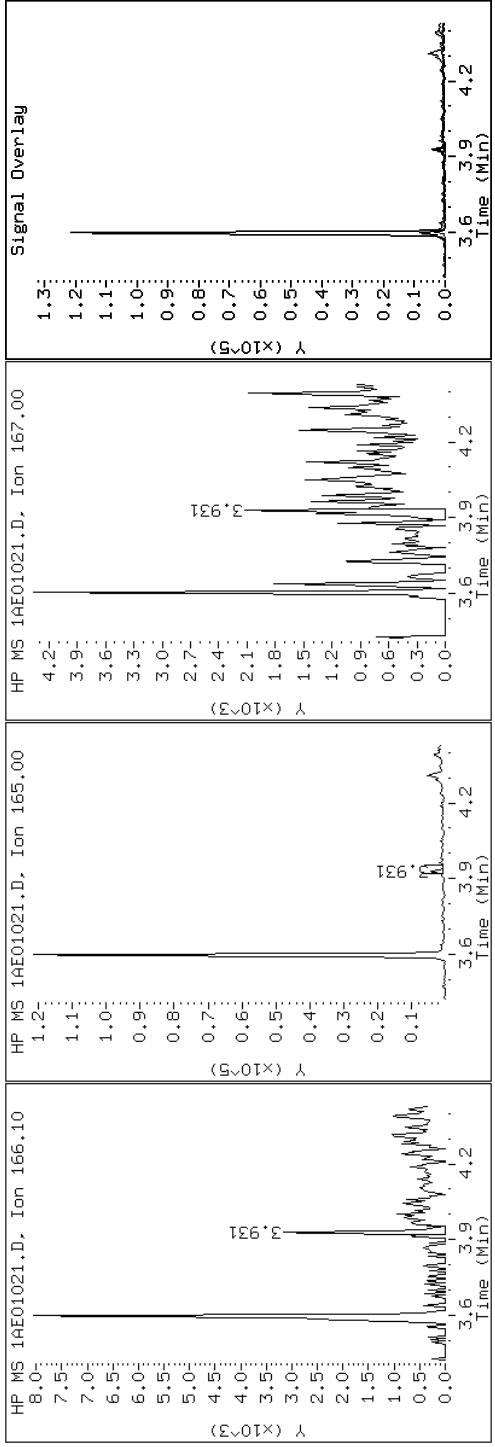
Client ID: HP0232A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-3-a

Operator: SCC

9 Fluorene



Data File: 1AE01021.D

Date: 01-MAY-2013 18:03

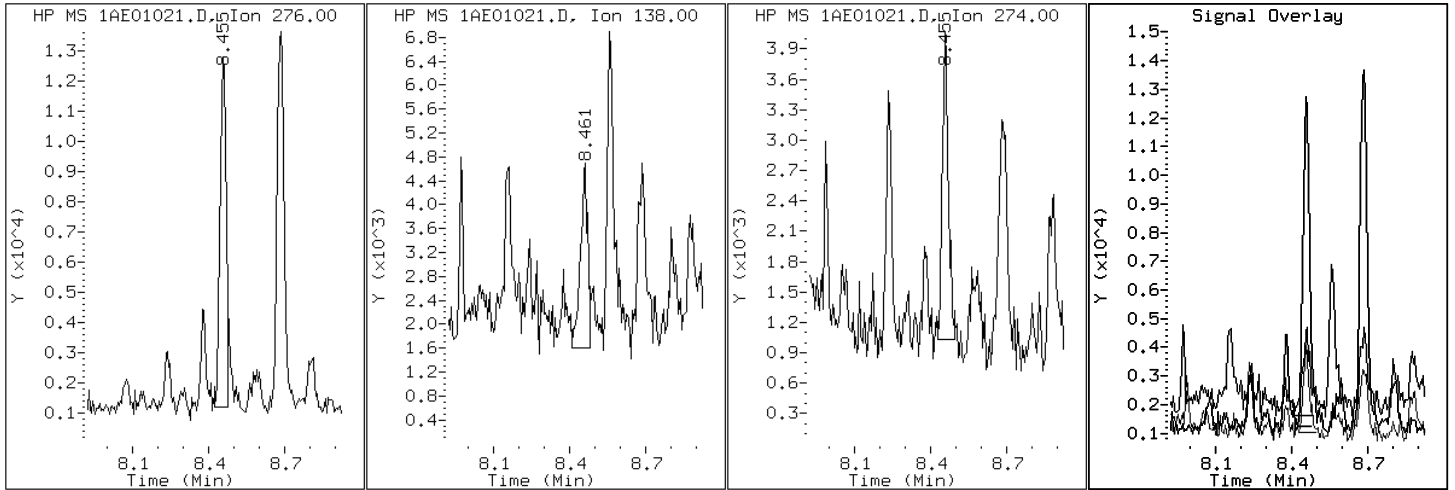
Client ID: HP0232A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-3-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



Data File: 1AE01021.D

Date: 01-MAY-2013 18:03

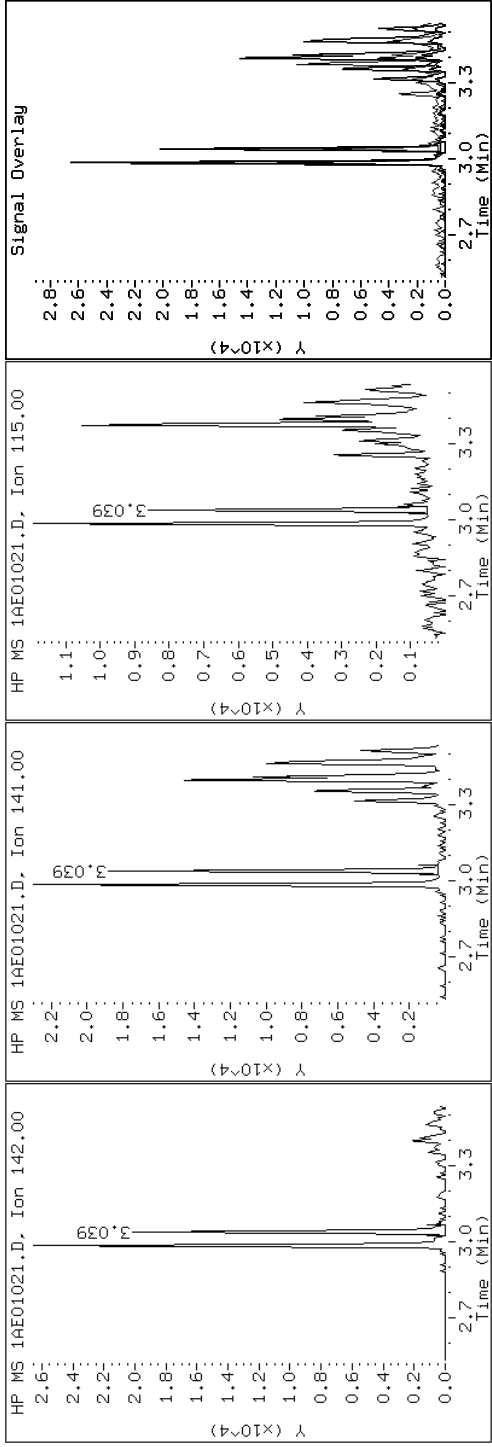
Client ID: HP0232A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-3-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE01021.D

Date: 01-MAY-2013 18:03

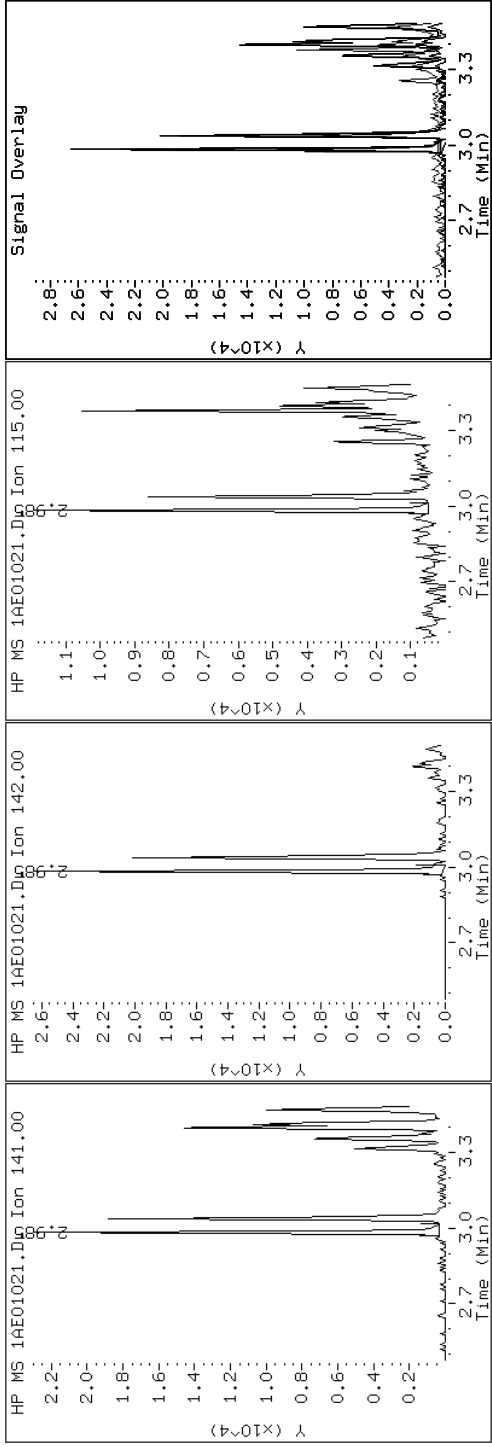
Client ID: HP0232A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-3-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1AE01021.D

Date: 01-MAY-2013 18:03

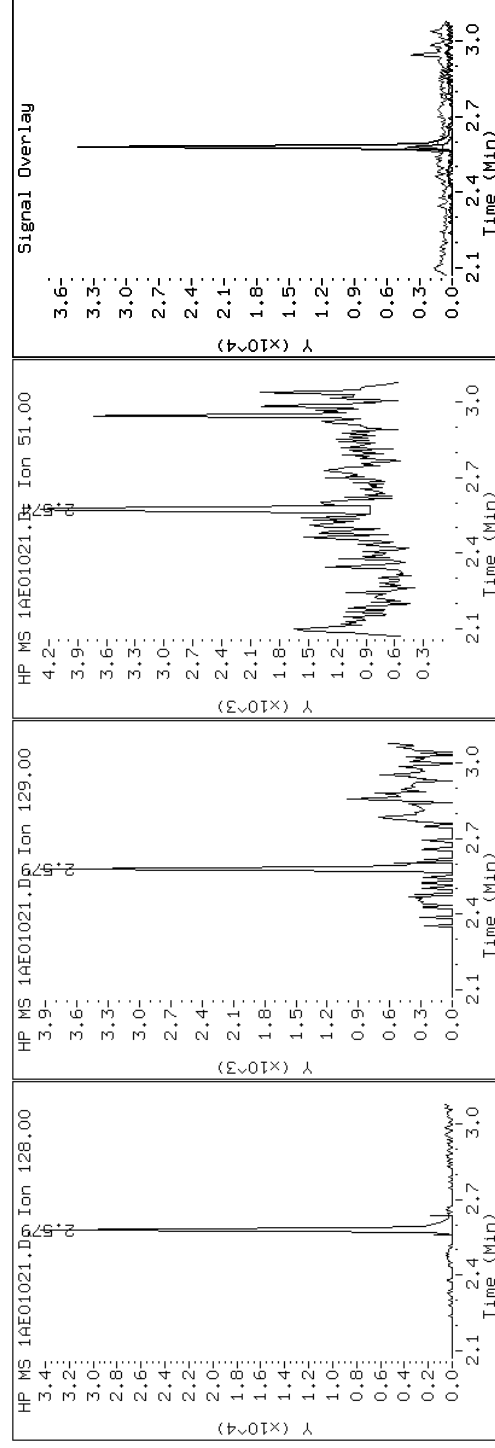
Client ID: HP0232A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-3-a

Operator: SCC

### 2 Naphthalene



Data File: 1AE01021.D

Date: 01-MAY-2013 18:03

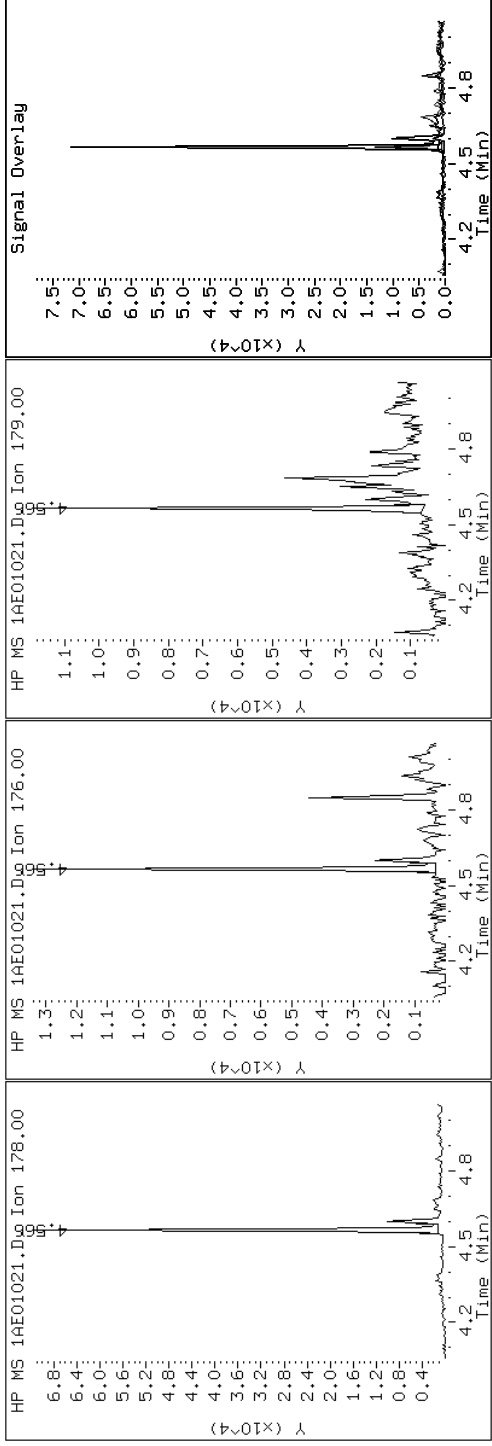
Client ID: HP0232A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-3-a

Operator: SCC

11 Phenanthrene



Data File: 1AE01021.D

Date: 01-MAY-2013 18:03

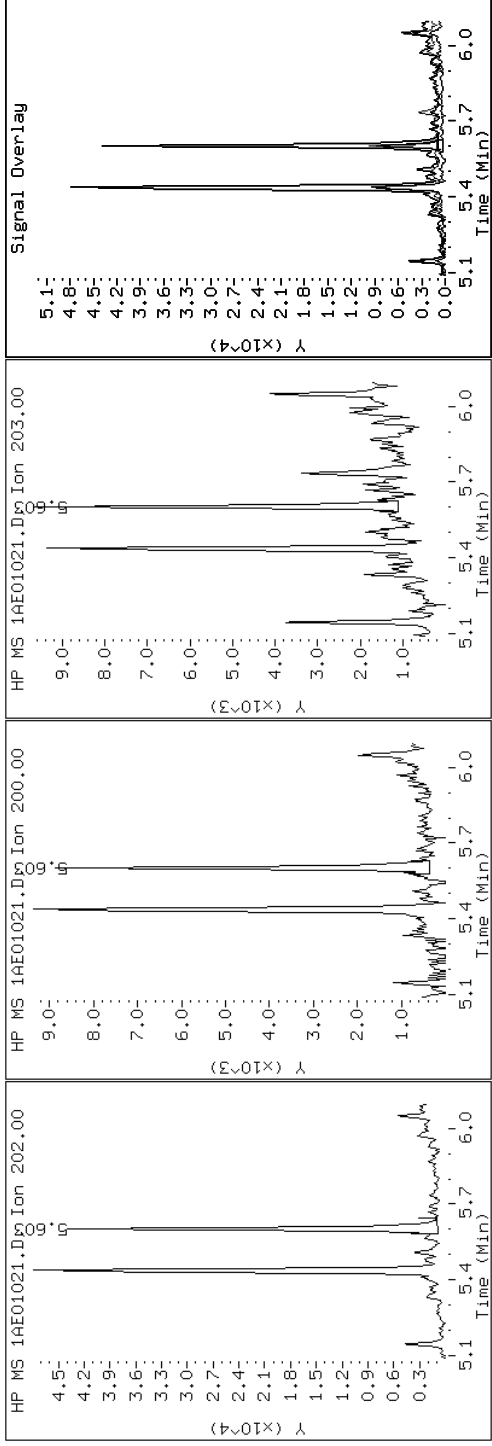
Client ID: HP0232A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-3-a

Operator: SCC

16 Pyrene

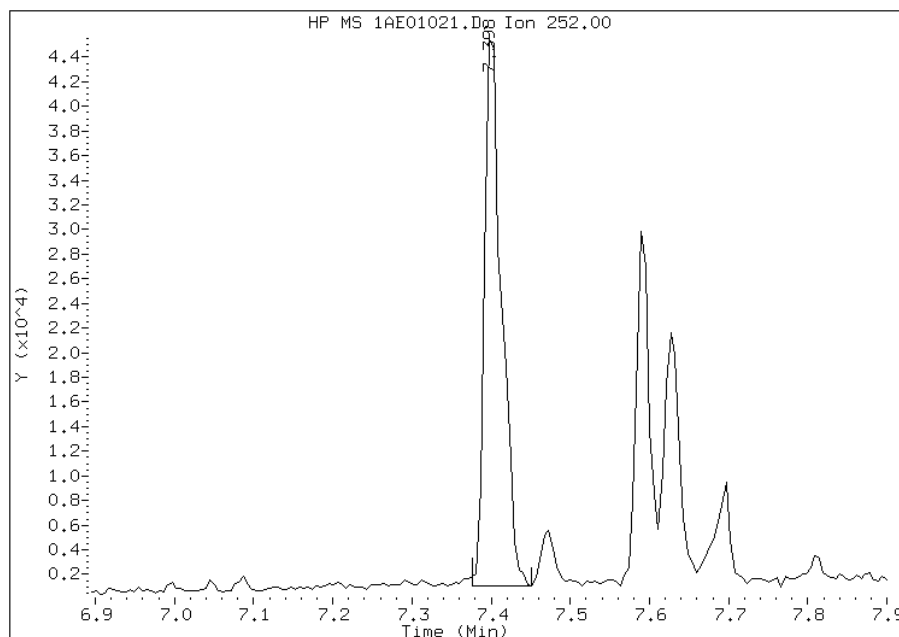


# Manual Integration Report

Data File: 1AE01021.D  
Inj. Date and Time: 01-MAY-2013 18:03  
Instrument ID: BSMA5973.i  
Client ID: HP0232A-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 05/05/2013

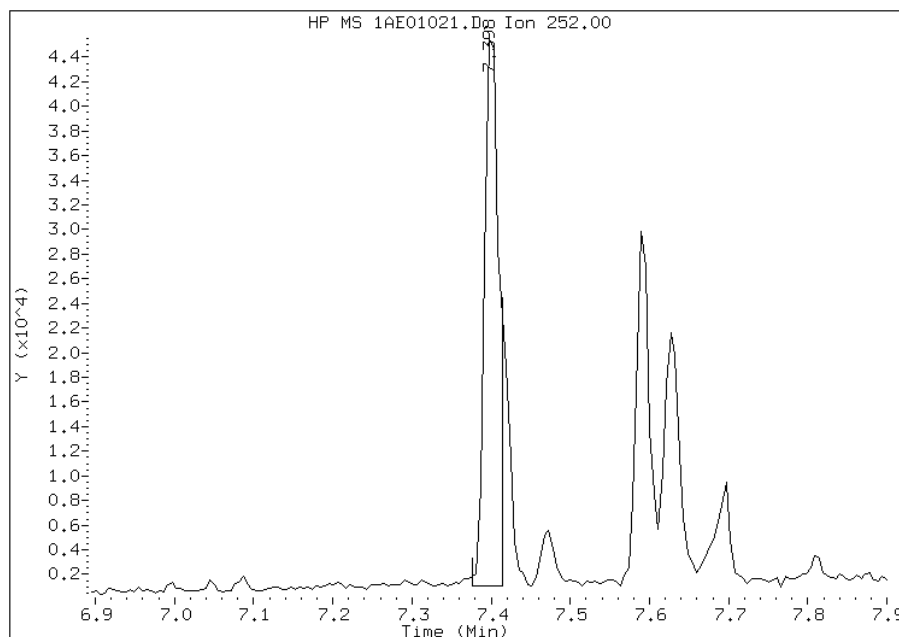
## Processing Integration Results

RT: 7.40  
Response: 66670  
Amount: 1  
Conc: 123



## Manual Integration Results

RT: 7.40  
Response: 55668  
Amount: 1  
Conc: 103



Manually Integrated By: cantins  
Modification Date: 05-May-2013 17:06  
Manual Integration Reason: Split Peak

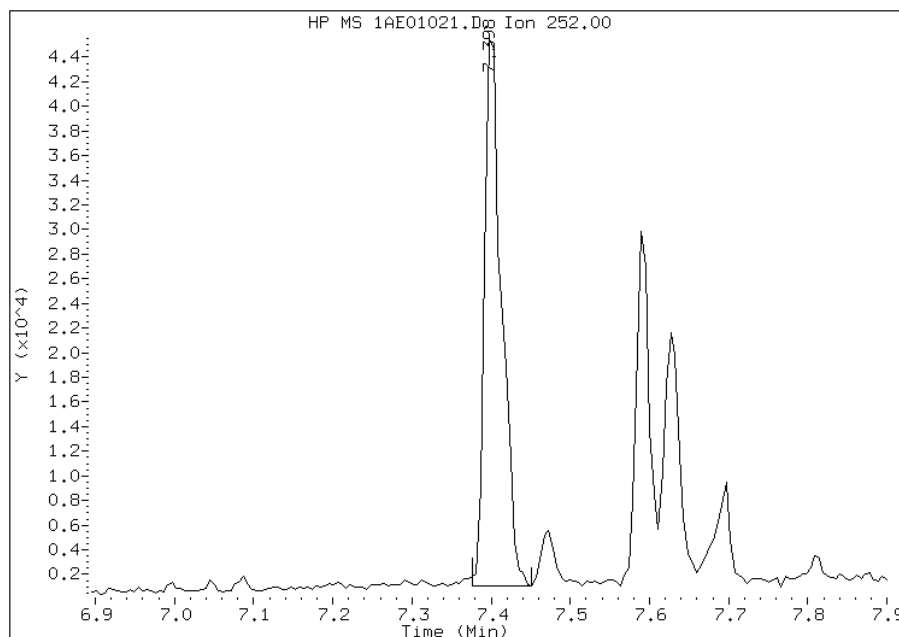


# Manual Integration Report

Data File: 1AE01021.D  
Inj. Date and Time: 01-MAY-2013 18:03  
Instrument ID: BSMA5973.i  
Client ID: HP0232A-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 05/05/2013

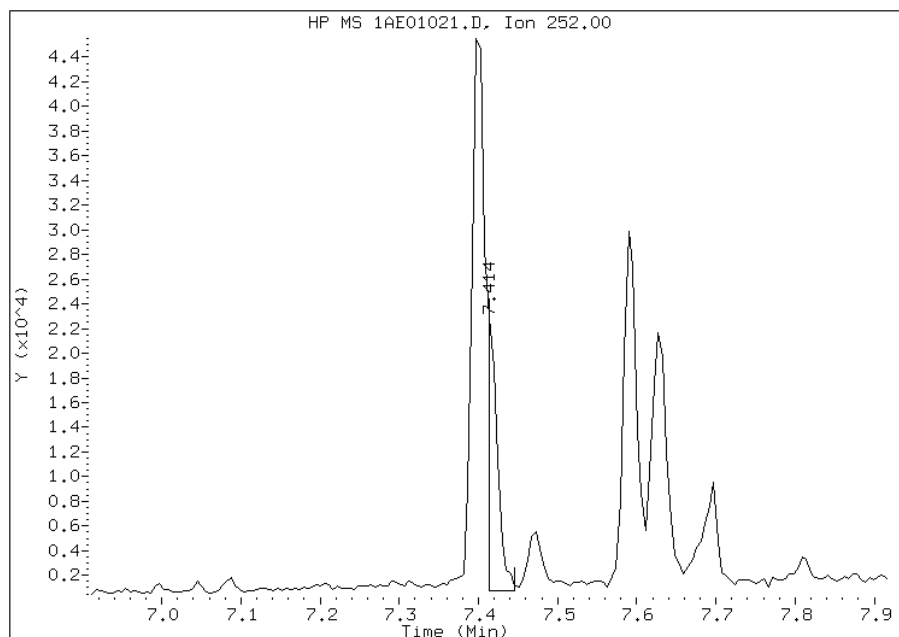
## Processing Integration Results

RT: 7.40  
Response: 66670  
Amount: 1  
Conc: 107



## Manual Integration Results

RT: 7.41  
Response: 18658  
Amount: 0  
Conc: 30



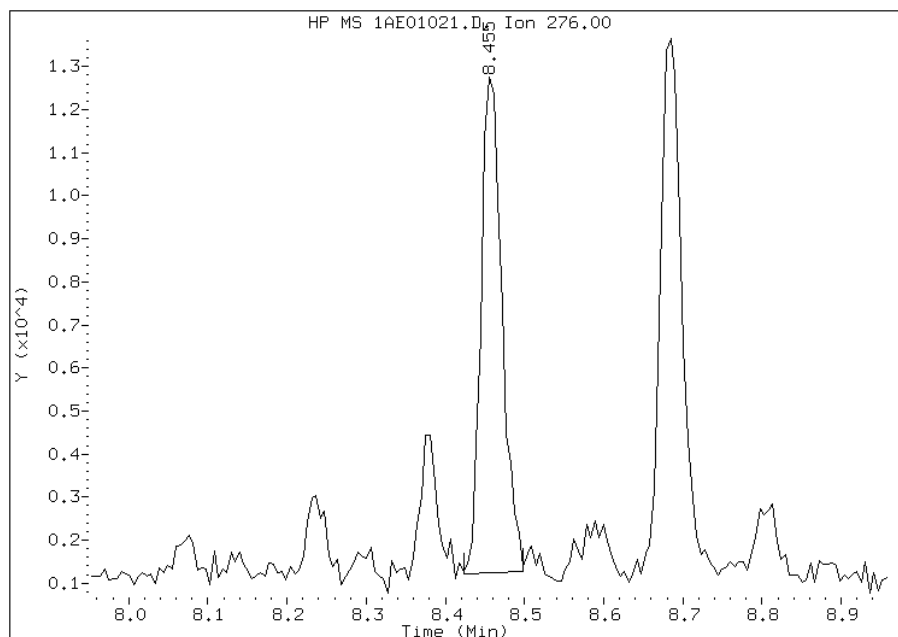
Manually Integrated By: cantins  
Modification Date: 05-May-2013 17:06  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE01021.D  
Inj. Date and Time: 01-MAY-2013 18:03  
Instrument ID: BSMA5973.i  
Client ID: HP0232A-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/05/2013

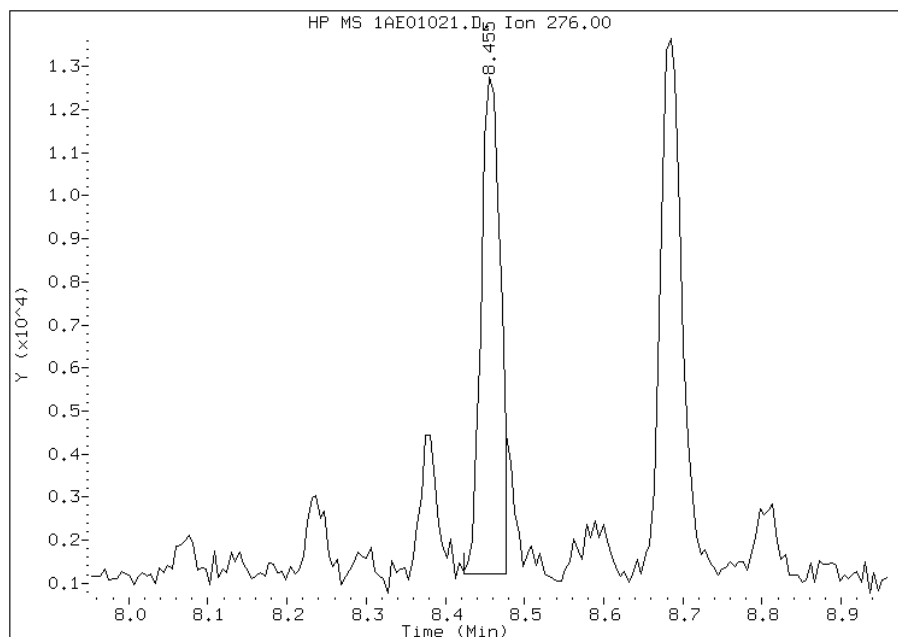
## Processing Integration Results

RT: 8.46  
Response: 20925  
Amount: 0  
Conc: 41



## Manual Integration Results

RT: 8.46  
Response: 19407  
Amount: 0  
Conc: 38



Manually Integrated By: cantins  
Modification Date: 05-May-2013 17:07  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: HP0232B-CS-SP Lab Sample ID: 680-89791-4  
 Matrix: Solid Lab File ID: 1AE01022.D  
 Analysis Method: 8270C LL Date Collected: 04/24/2013 09:41  
 Extract. Method: 3546 Date Extracted: 04/29/2013 14:27  
 Sample wt/vol: 15.07(g) Date Analyzed: 05/01/2013 18:18  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 18.3 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137001 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	17	J	49	6.1
120-12-7	Anthracene	81		10	5.1
56-55-3	Benzo[a]anthracene	140		9.7	4.8
50-32-8	Benzo[a]pyrene	120		13	6.3
205-99-2	Benzo[b]fluoranthene	190		15	7.4
191-24-2	Benzo[g,h,i]perylene	79		24	5.4
207-08-9	Benzo[k]fluoranthene	67		9.7	4.4
218-01-9	Chrysene	160		11	5.5
53-70-3	Dibenz(a,h)anthracene	27		24	5.0
206-44-0	Fluoranthene	310		24	4.9
86-73-7	Fluorene	32		24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	82		24	8.7
90-12-0	1-Methylnaphthalene	66		49	5.4
91-57-6	2-Methylnaphthalene	79		49	8.7
91-20-3	Naphthalene	86		49	5.4
85-01-8	Phenanthrene	300		9.7	4.8
129-00-0	Pyrene	200		24	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	58		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01022.D  
 Lab Smp Id: 680-89791-A-4-A Client Smp ID: HP0232B-CS-SP  
 Inj Date : 01-MAY-2013 18:18  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-89791-a-4-a  
 Misc Info : 680-89791-A-4-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\A-bFASTPAHi-m.m  
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 19  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.070	Weight Extracted
M	18.326	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.568	2.563	(1.000)	1357041	40.0000		
* 6 Acenaphthene-d10	164		3.599	3.594	(1.000)	706095	40.0000		
* 10 Phenanthrene-d10	188		4.555	4.544	(1.000)	1086532	40.0000		
\$ 14 o-Terphenyl	230		4.849	4.844	(1.064)	103924	5.84770	475.1019	
* 18 Chrysene-d12	240		6.591	6.574	(1.000)	1175792	40.0000		
* 23 Perylene-d12	264		7.686	7.659	(1.000)	1500079	40.0000		
2 Naphthalene	128		2.579	2.573	(1.004)	35954	1.05986	86.1096	
3 2-Methylnaphthalene	141		2.985	2.979	(1.162)	19008	0.97733	79.4039	
4 1-Methylnaphthalene	142		3.038	3.033	(1.183)	17551	0.81451	66.1759	
5 Acenaphthylene	152		3.508	3.503	(0.975)	8484	0.20559	16.7035	
9 Fluorene	166		3.930	3.925	(1.092)	10362	0.39797	32.3335	
11 Phenanthrene	178		4.566	4.560	(1.002)	117881	3.74527	304.2878	
12 Anthracene	178		4.598	4.593	(1.009)	32736	1.00028	81.2686	
13 Carbazole	167		4.737	4.726	(1.040)	17225	0.54559	44.3268	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	5.437	5.426 (1.193)		138873	3.82003	310.3617
16 Pyrene	202	5.602	5.592 (0.850)		111532	2.48637	202.0078
17 Benzo(a)anthracene	228	6.580	6.558 (0.998)		66280	1.72614	140.2415
19 Chrysene	228	6.601	6.590 (1.002)		78083	2.00442	162.8508
20 Benzo(b)fluoranthene	252	7.403	7.381 (0.963)		104586	2.29650	186.5812(M)
21 Benzo(k)fluoranthene	252	7.413	7.402 (0.965)		43475	0.83029	67.4576(QM)
22 Benzo(a)pyrene	252	7.632	7.605 (0.993)		68491	1.51176	122.8244
24 Indeno(1,2,3-cd)pyrene	276	8.466	8.423 (1.101)		43362	1.01366	82.3555(M)
25 Dibenzo(a,h)anthracene	278	8.487	8.450 (1.104)		13205	0.33176	26.9543
26 Benzo(g,h,i)perylene	276	8.695	8.642 (1.131)		46400	0.96916	78.7404

QC Flag Legend

Q - Qualifier signal failed the ratio test.  
M - Compound response manually integrated.

Data File: 1AE01022.D

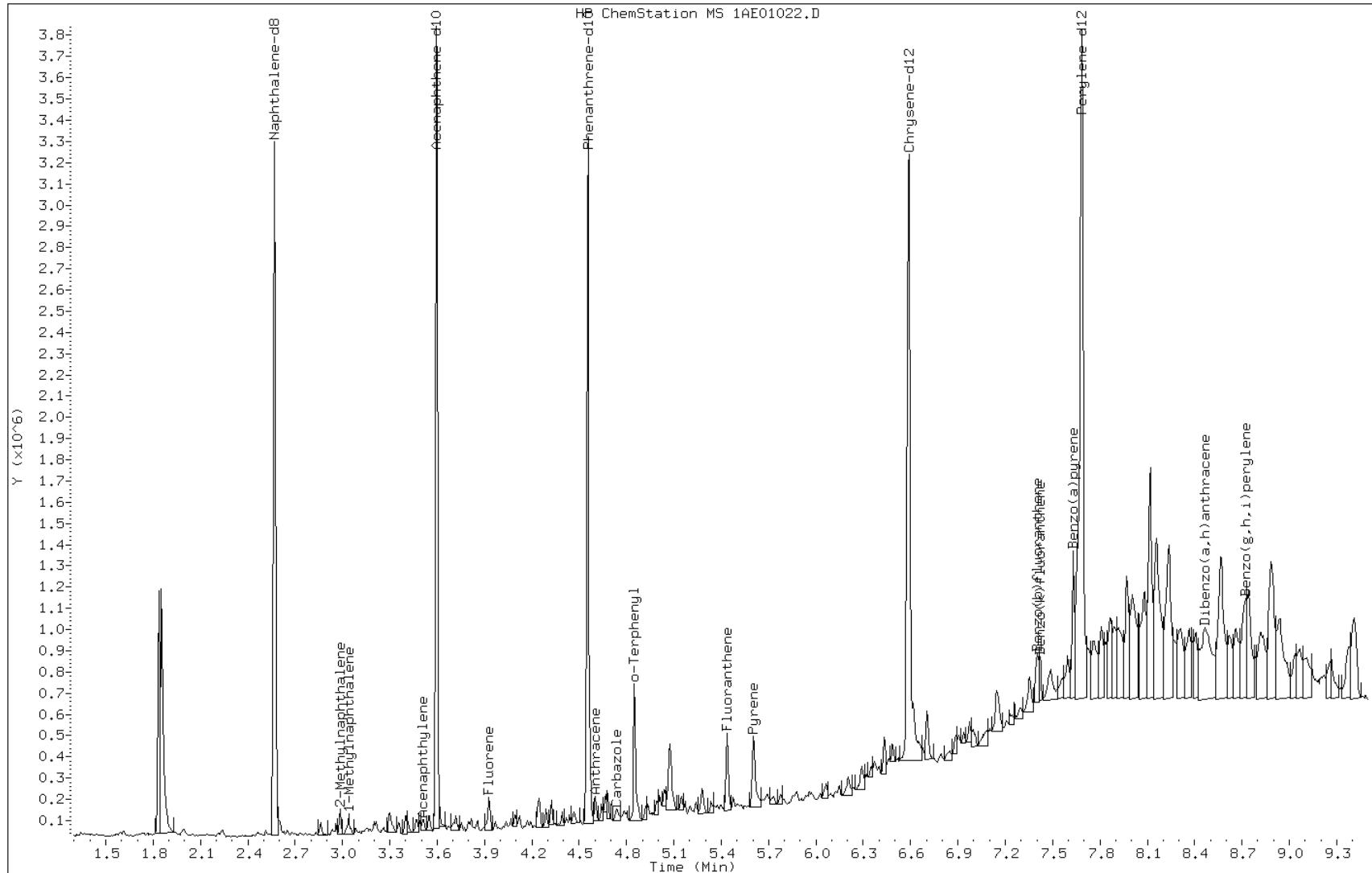
Date: 01-MAY-2013 18:18

Client ID: HP0232B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-4-a

Operator: SCC



Data File: 1AE01022.D

Date: 01-MAY-2013 18:18

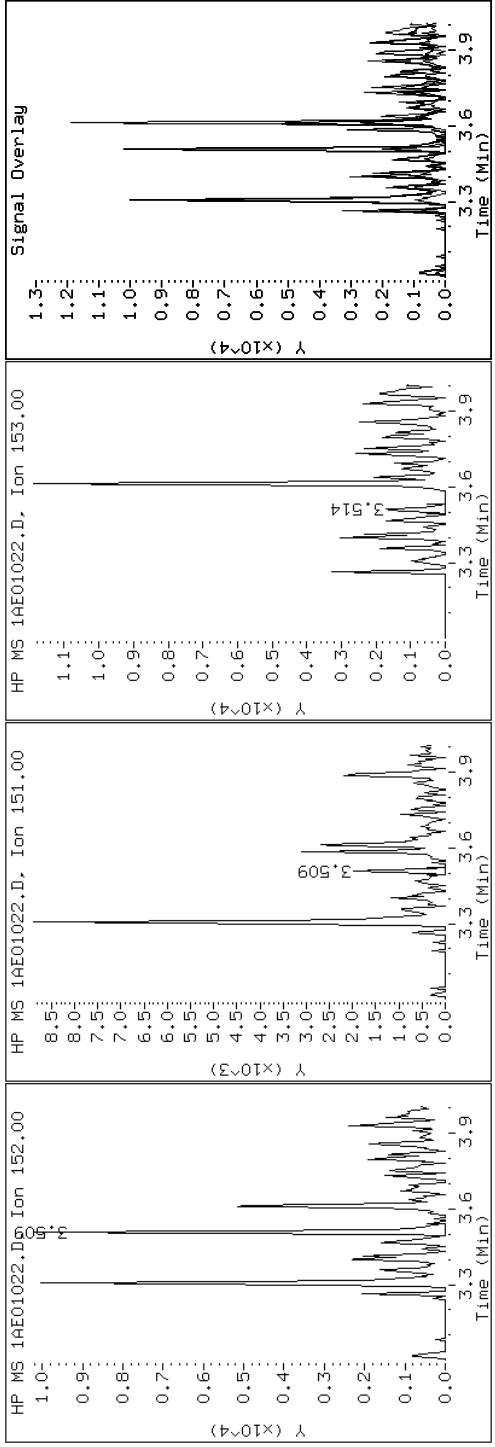
Client ID: HP0232B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-4-a

Operator: SCC

5 Acenaphthylene



Data File: 1AE01022.D

Date: 01-MAY-2013 18:18

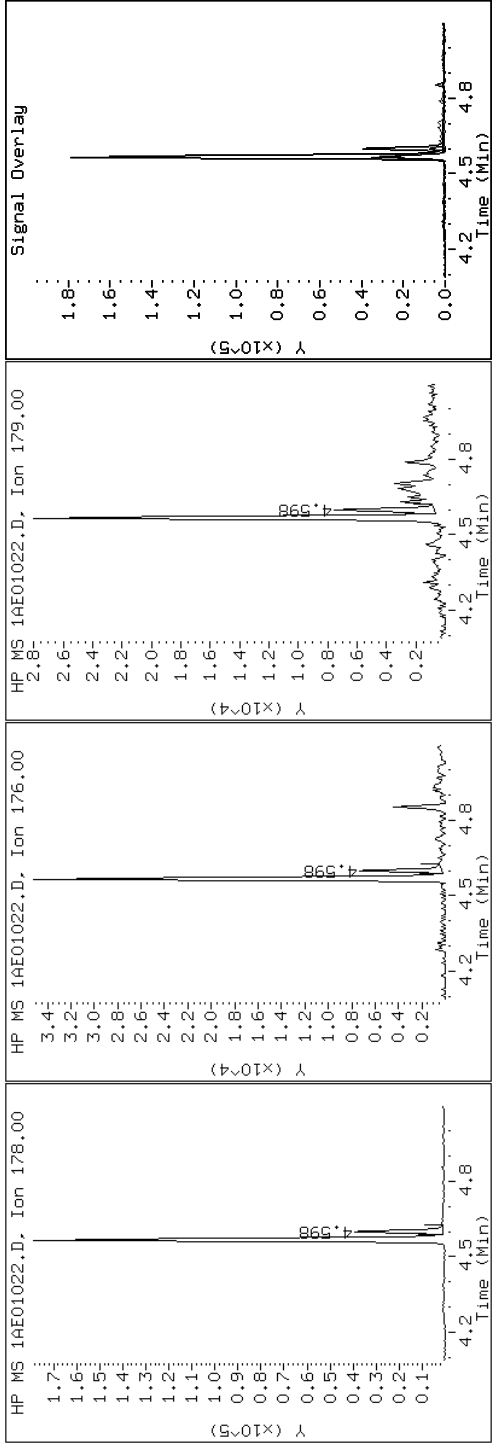
Client ID: HP0232B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-4-a

Operator: SCC

12 Anthracene





Data File: 1AE01022.D

Date: 01-MAY-2013 18:18

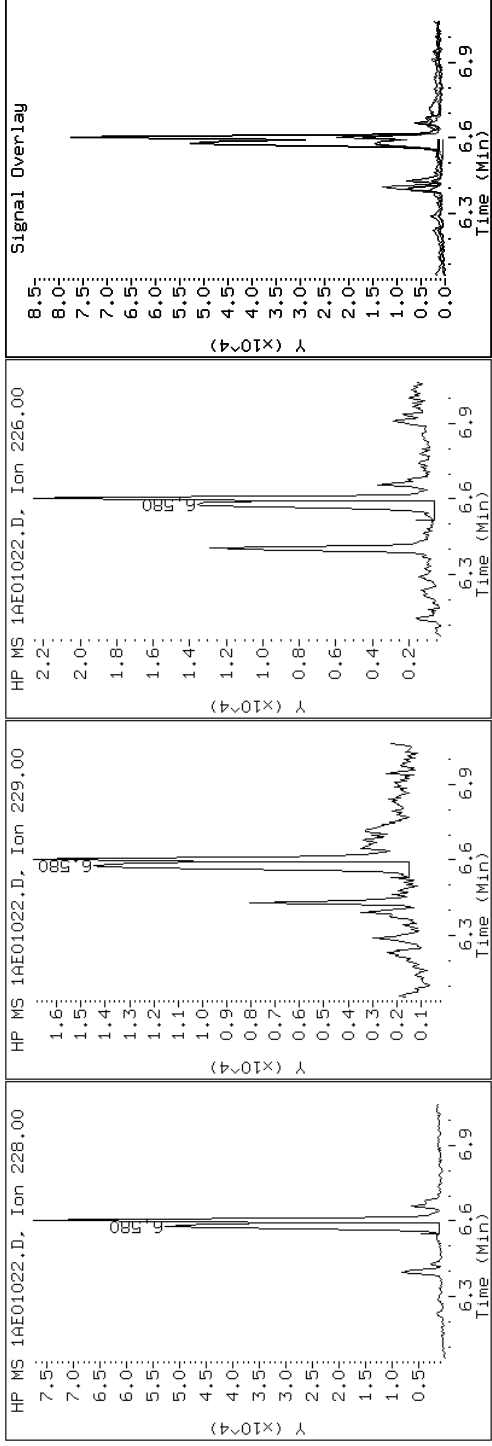
Client ID: HP0232B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-4-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AE01022.D

Date: 01-MAY-2013 18:18

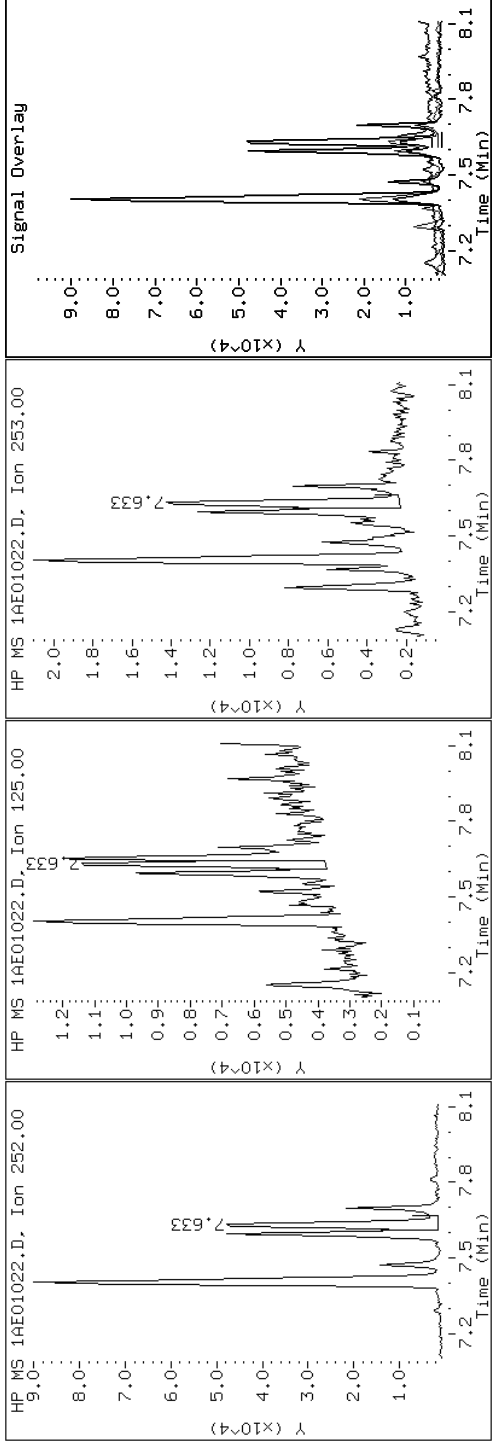
Client ID: HP0232B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-4-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AE01022.D

Date: 01-MAY-2013 18:18

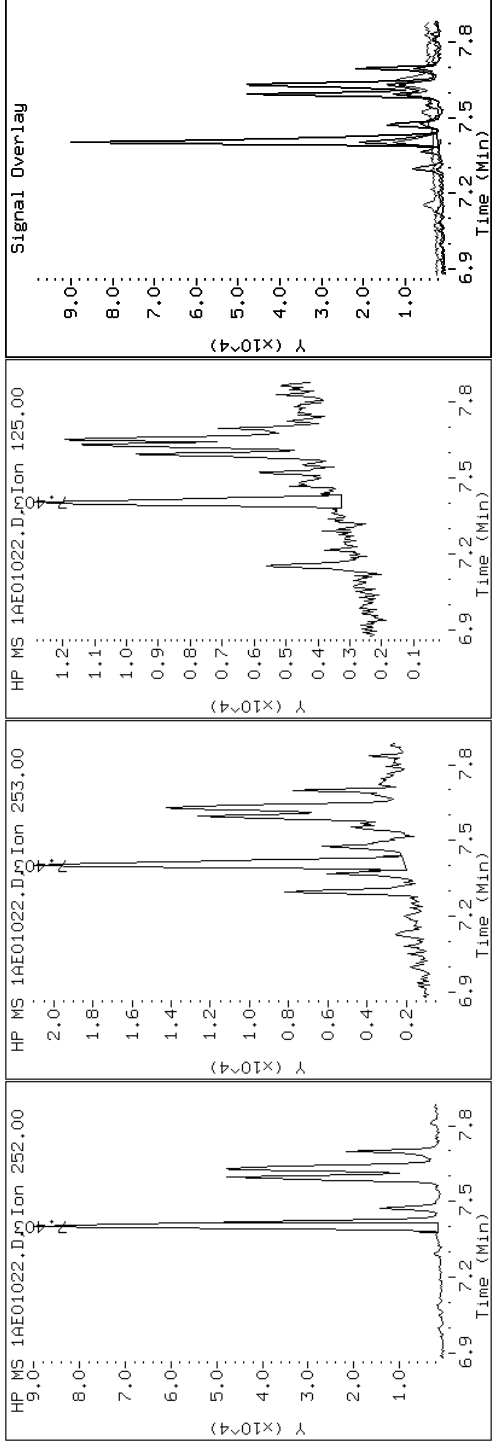
Client ID: HP0232B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-4-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AE01022.D

Date: 01-MAY-2013 18:18

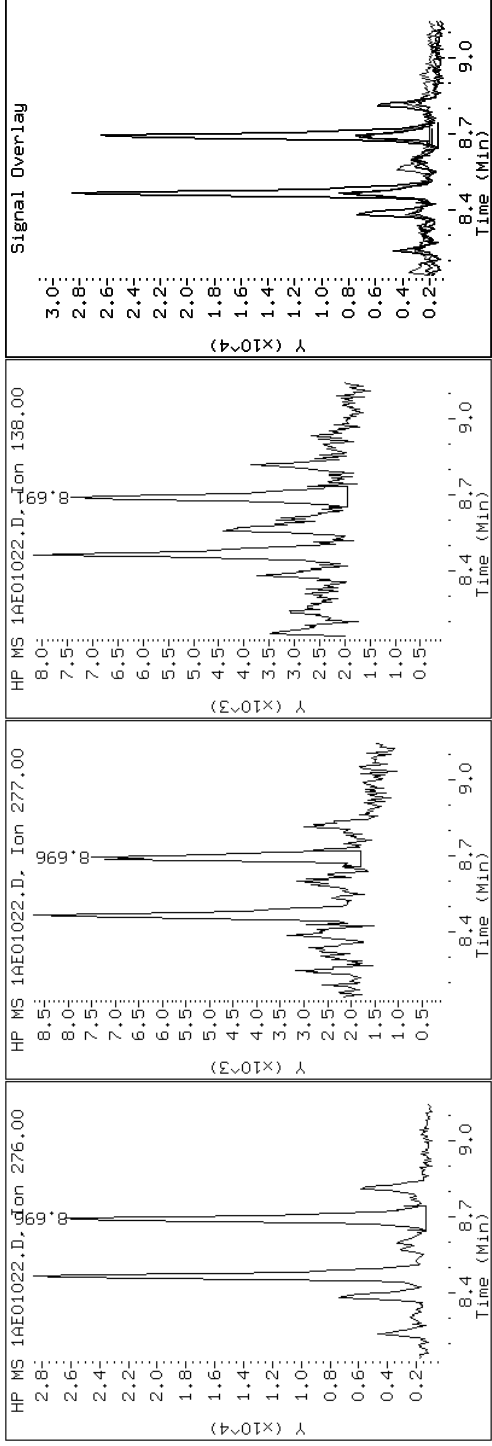
Client ID: HP0232B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-4-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AE01022.D

Date: 01-MAY-2013 18:18

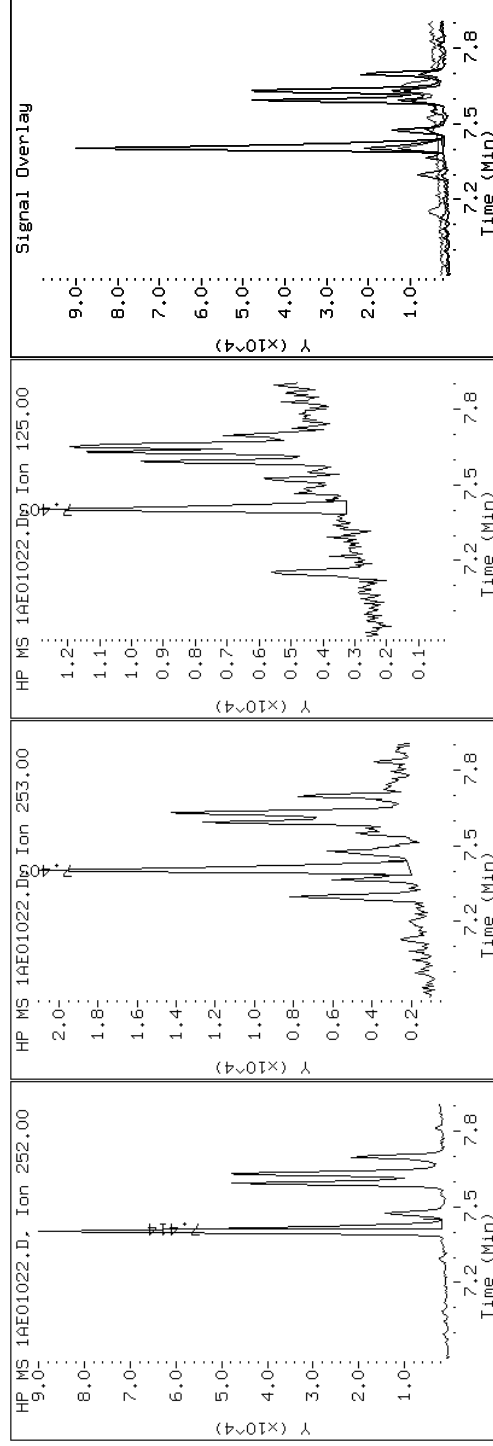
Client ID: HP0232B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-4-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AE01022.D

Date: 01-MAY-2013 18:18

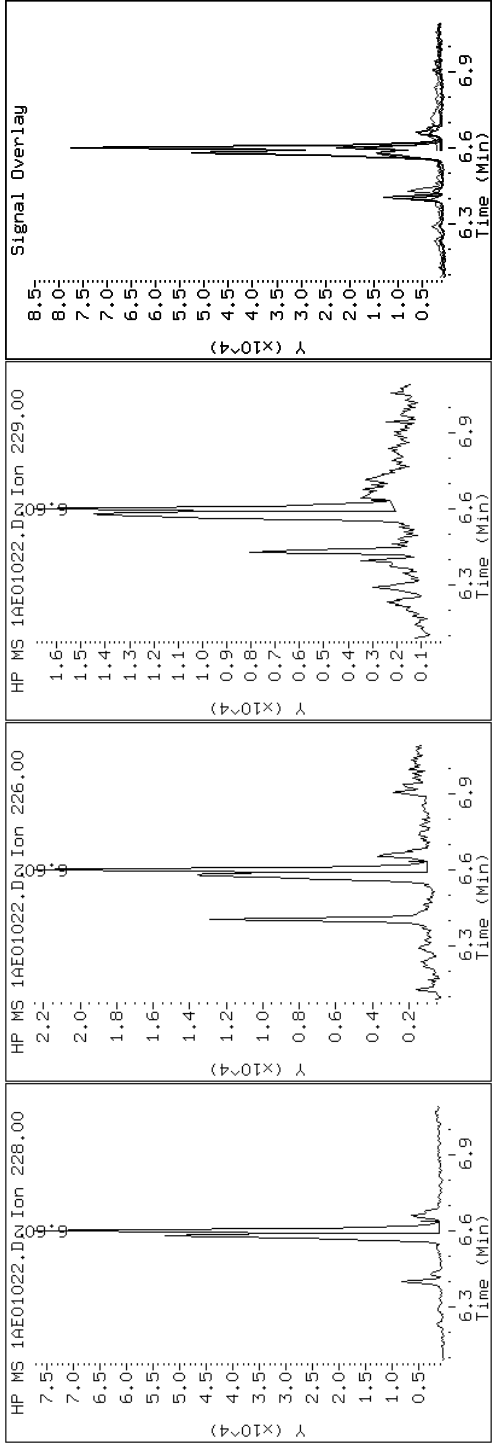
Client ID: HP0232B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-4-a

Operator: SCC

19 Chrysene



Data File: 1AE01022.D

Date: 01-MAY-2013 18:18

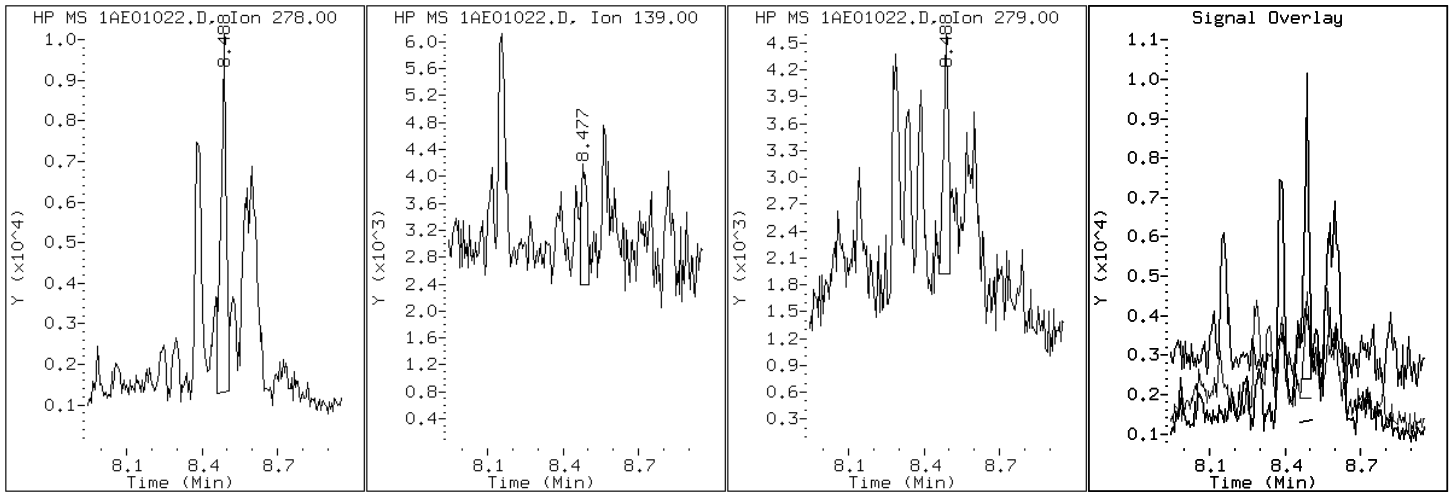
Client ID: HP0232B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-4-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AE01022.D

Date: 01-MAY-2013 18:18

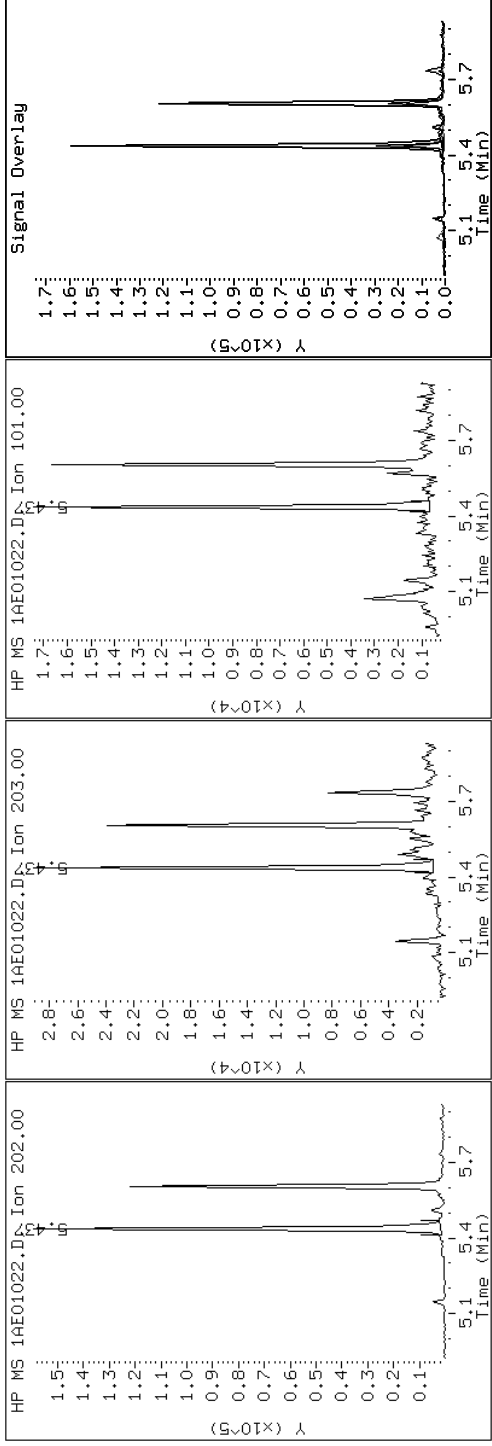
Client ID: HP0232B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-4-a

Operator: SCC

15 Fluoranthene





Data File: 1AE01022.D

Date: 01-MAY-2013 18:18

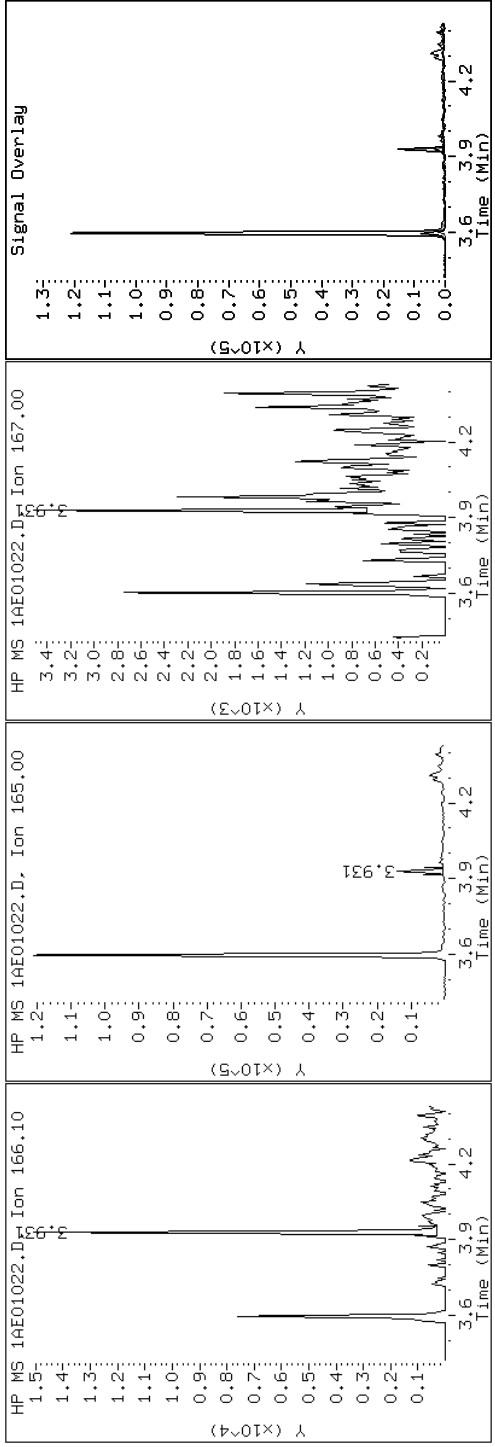
Client ID: HP0232B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-4-a

Operator: SCC

9 Fluorene



Data File: 1AE01022.D

Date: 01-MAY-2013 18:18

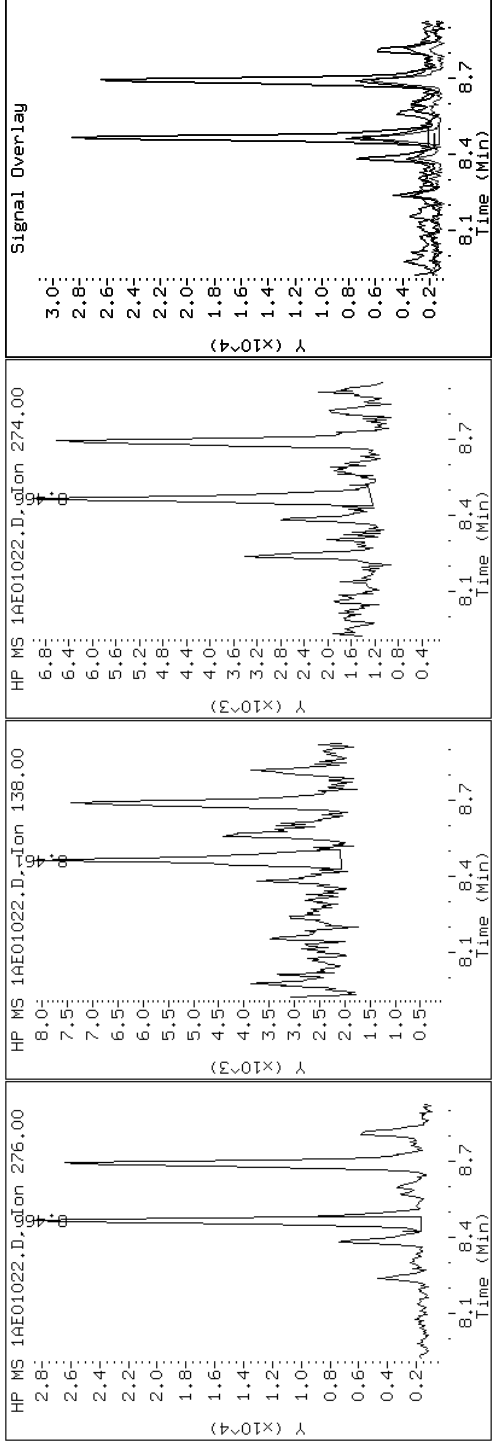
Client ID: HP0232B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-4-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



Data File: 1AE01022.D

Date: 01-MAY-2013 18:18

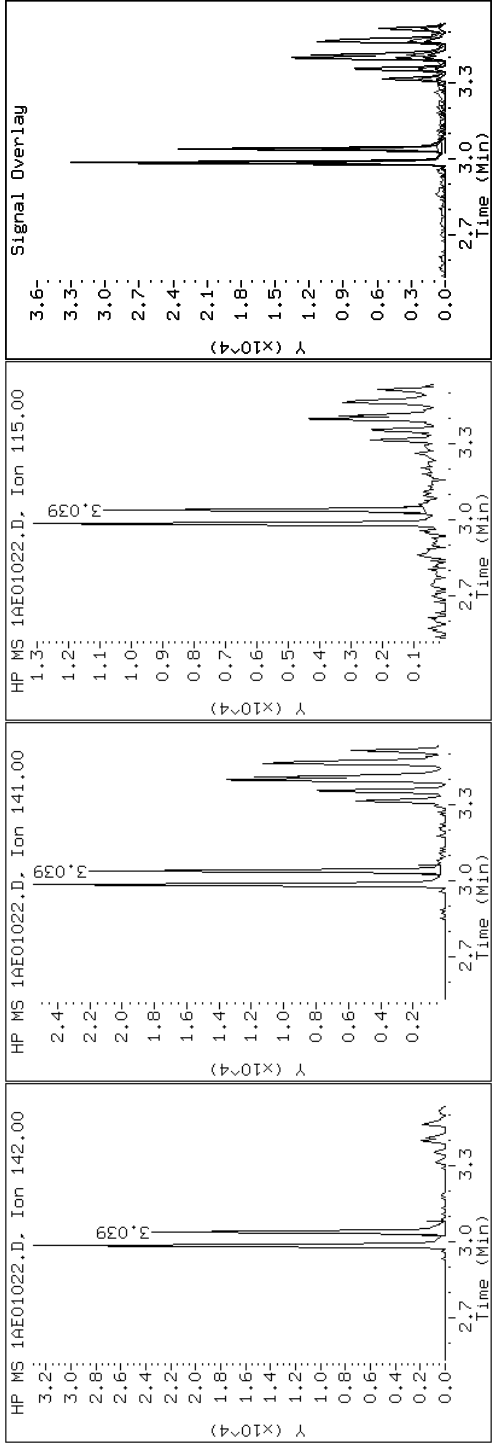
Client ID: HP0232B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-4-a

Operator: SCC

### 4 1-Methylnaphthalene



Data File: 1AE01022.D

Date: 01-MAY-2013 18:18

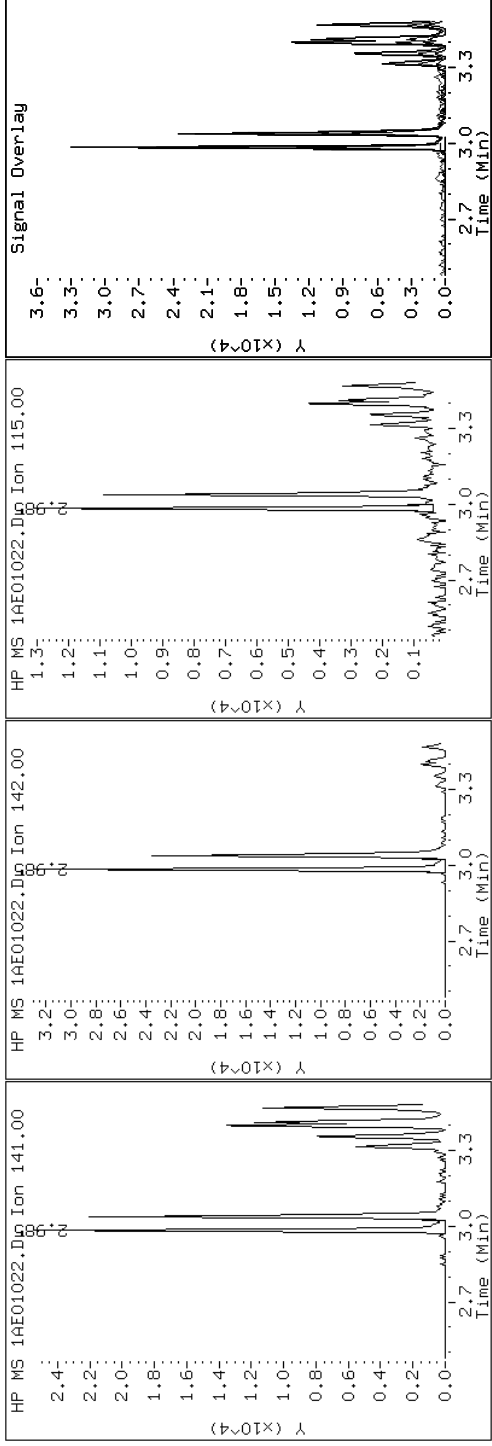
Client ID: HP0232B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-4-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1AE01022.D

Date: 01-MAY-2013 18:18

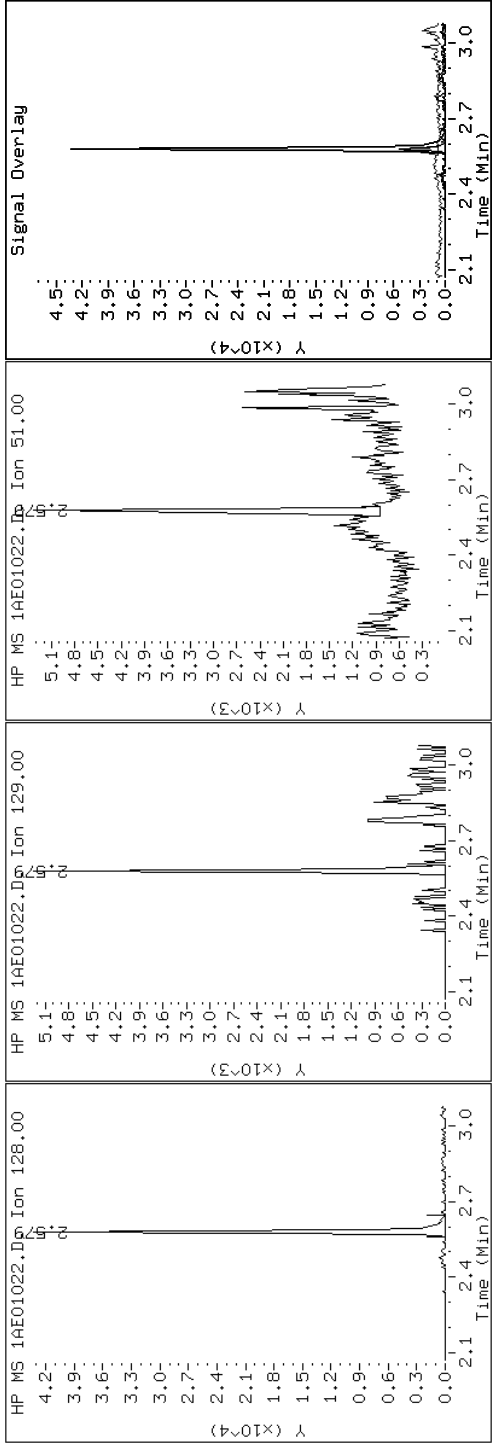
Client ID: HP0232B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-4-a

Operator: SCC

### 2 Naphthalene



Data File: 1AE01022.D

Date: 01-MAY-2013 18:18

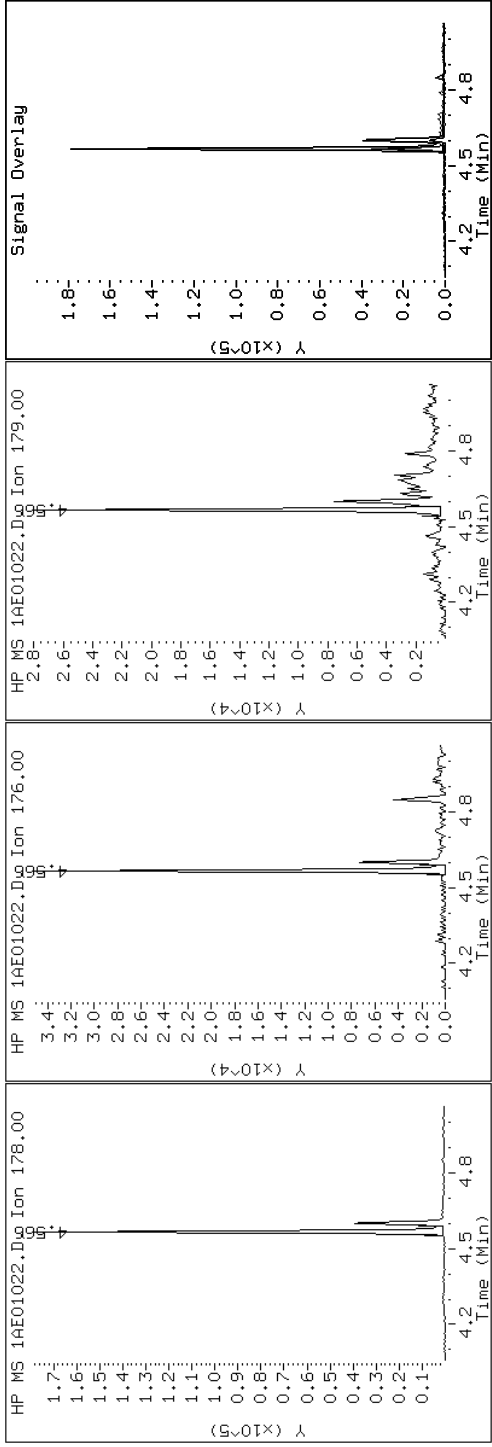
Client ID: HP0232B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-4-a

Operator: SCC

11 Phenanthrene



Data File: 1AE01022.D

Date: 01-MAY-2013 18:18

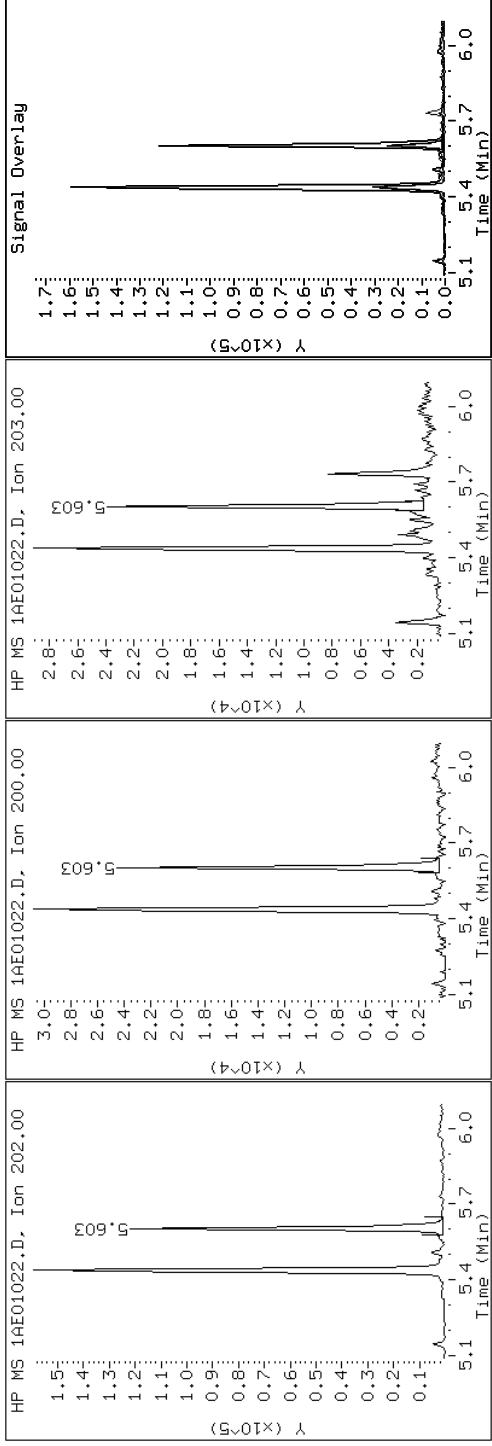
Client ID: HP0232B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-4-a

Operator: SCC

16 Pyrene

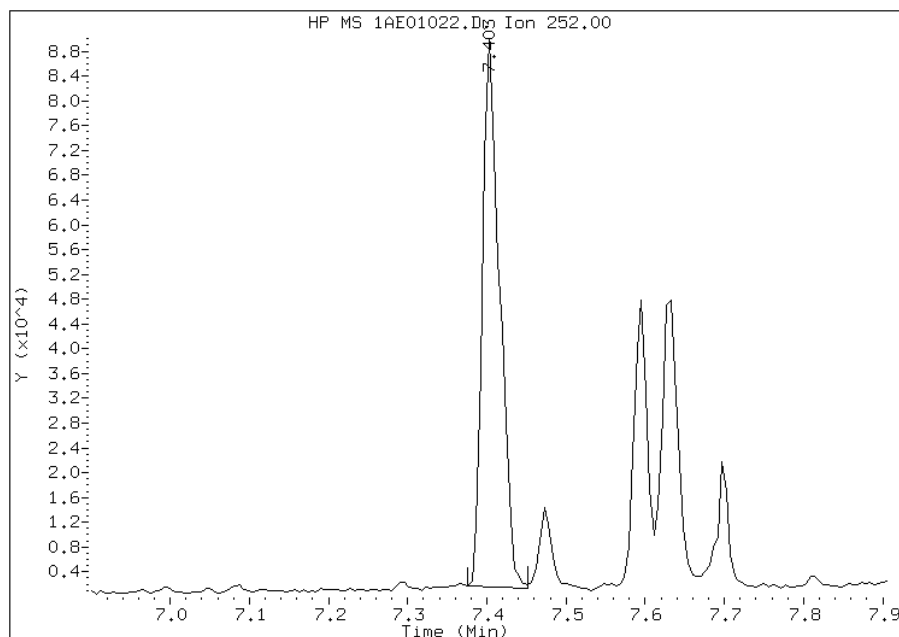


# Manual Integration Report

Data File: 1AE01022.D  
Inj. Date and Time: 01-MAY-2013 18:18  
Instrument ID: BSMA5973.i  
Client ID: HP0232B-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 05/05/2013

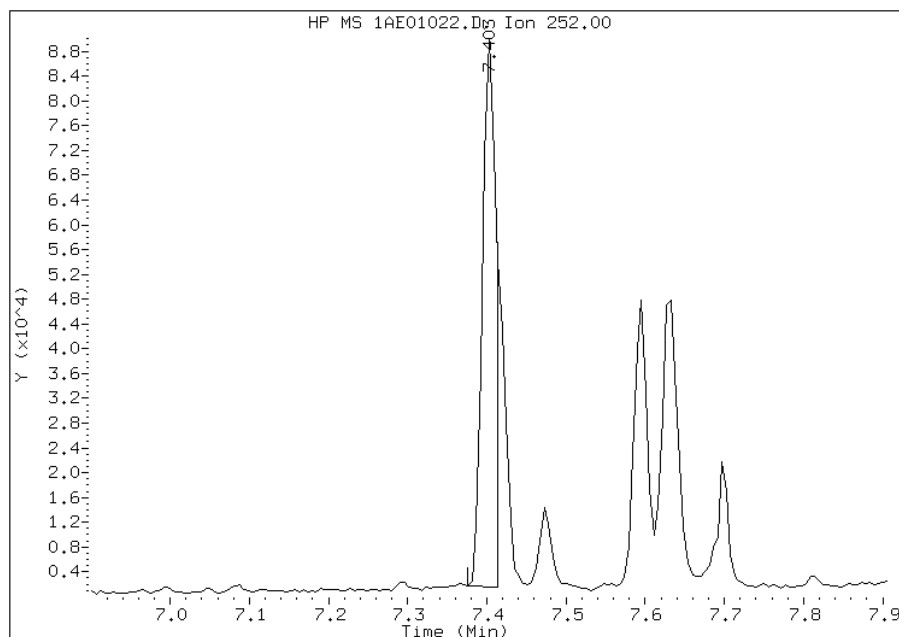
## Processing Integration Results

RT: 7.40  
Response: 132010  
Amount: 3  
Conc: 236



## Manual Integration Results

RT: 7.40  
Response: 104586  
Amount: 2  
Conc: 187



Manually Integrated By: cantins  
Modification Date: 05-May-2013 17:08  
Manual Integration Reason: Split Peak

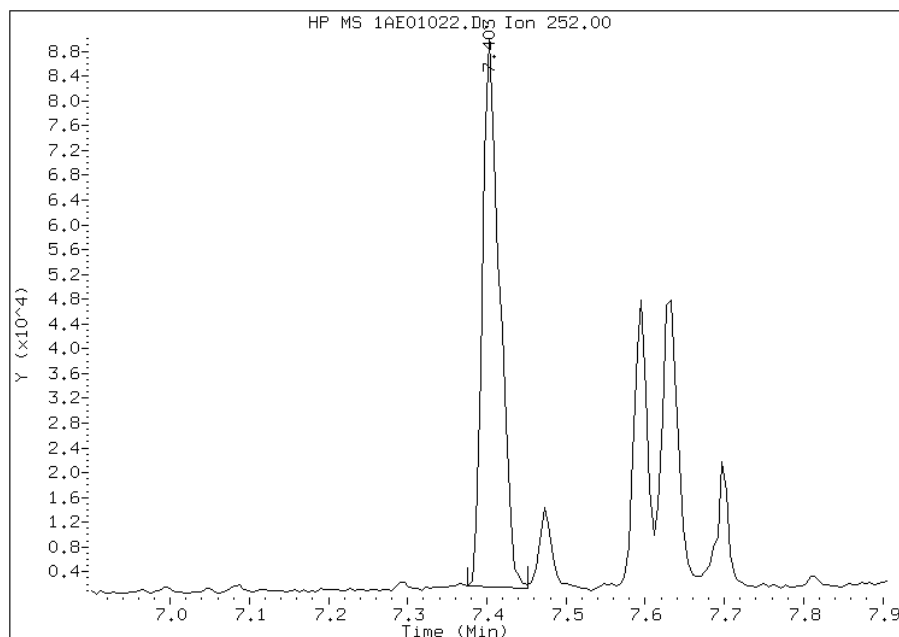


# Manual Integration Report

Data File: 1AE01022.D  
Inj. Date and Time: 01-MAY-2013 18:18  
Instrument ID: BSMA5973.i  
Client ID: HP0232B-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 05/05/2013

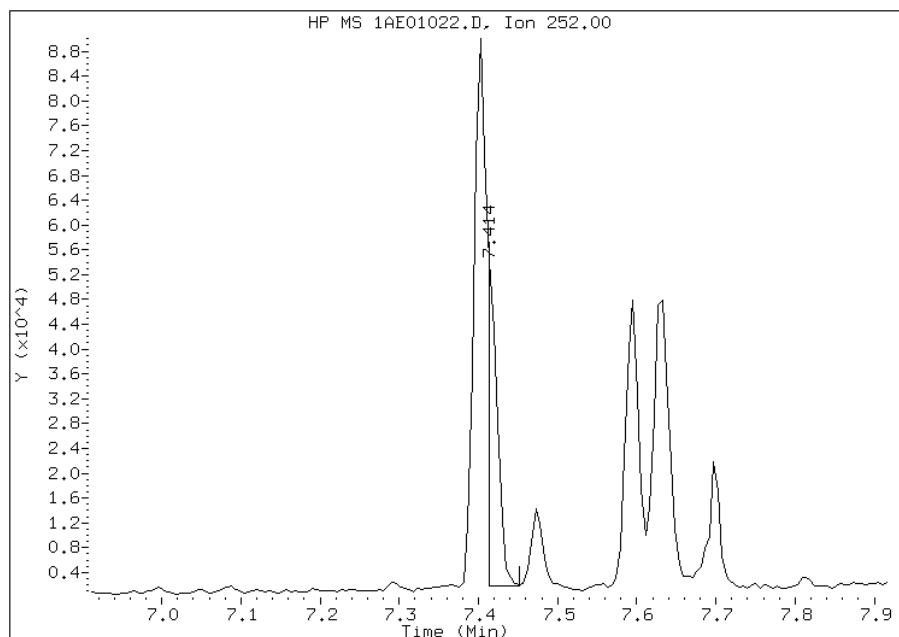
## Processing Integration Results

RT: 7.40  
Response: 132007  
Amount: 3  
Conc: 205



## Manual Integration Results

RT: 7.41  
Response: 43475  
Amount: 1  
Conc: 67



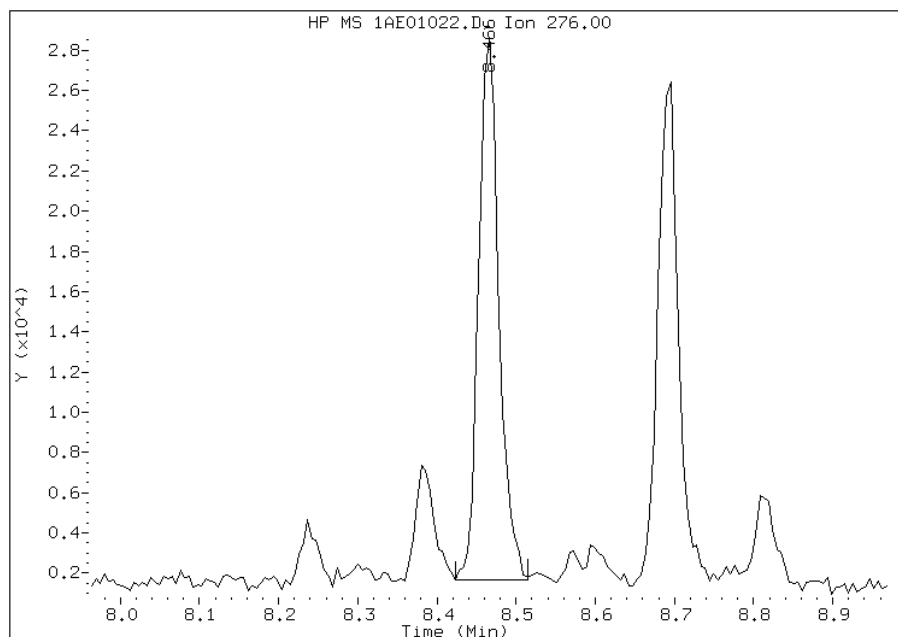
Manually Integrated By: cantins  
Modification Date: 05-May-2013 17:08  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE01022.D  
Inj. Date and Time: 01-MAY-2013 18:18  
Instrument ID: BSMA5973.i  
Client ID: HP0232B-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/05/2013

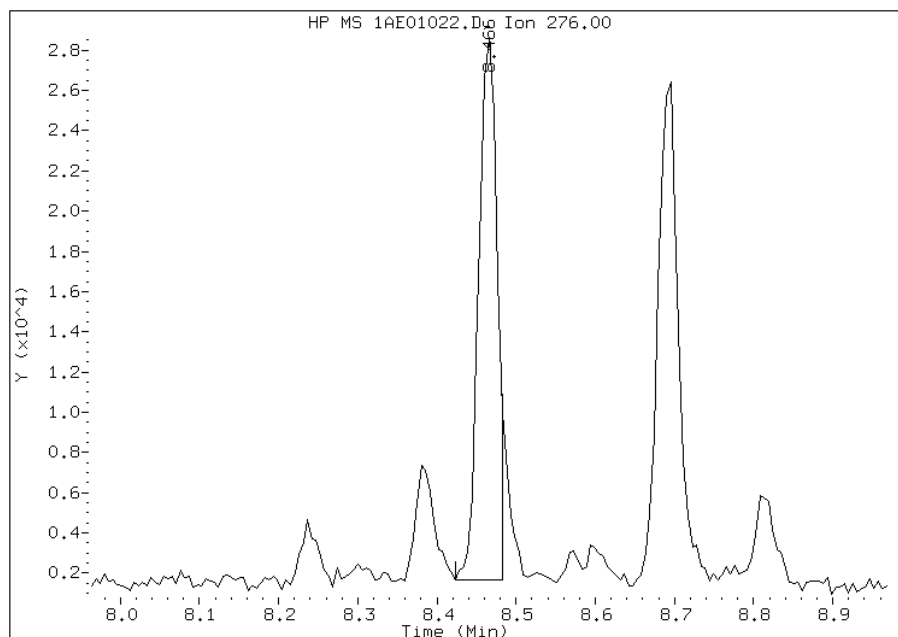
## Processing Integration Results

RT: 8.47  
Response: 47641  
Amount: 1  
Conc: 90



## Manual Integration Results

RT: 8.47  
Response: 43362  
Amount: 1  
Conc: 82



Manually Integrated By: cantins  
Modification Date: 05-May-2013 17:08  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: HP0288A-CS-SP Lab Sample ID: 680-89791-5  
 Matrix: Solid Lab File ID: 1AE01023.D  
 Analysis Method: 8270C LL Date Collected: 04/24/2013 08:56  
 Extract. Method: 3546 Date Extracted: 04/29/2013 14:27  
 Sample wt/vol: 14.95(g) Date Analyzed: 05/01/2013 18:33  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 19.8 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137001 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	26	J	50	6.3
120-12-7	Anthracene	39		11	5.3
56-55-3	Benzo[a]anthracene	97		10	4.9
50-32-8	Benzo[a]pyrene	97		13	6.5
205-99-2	Benzo[b]fluoranthene	170		15	7.6
191-24-2	Benzo[g,h,i]perylene	70		25	5.5
207-08-9	Benzo[k]fluoranthene	66		10	4.5
218-01-9	Chrysene	140		11	5.6
53-70-3	Dibenz(a,h)anthracene	19	J	25	5.1
206-44-0	Fluoranthene	150		25	5.0
86-73-7	Fluorene	13	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	75		25	8.9
90-12-0	1-Methylnaphthalene	50		50	5.5
91-57-6	2-Methylnaphthalene	64		50	8.9
91-20-3	Naphthalene	90		50	5.5
85-01-8	Phenanthrene	120		10	4.9
129-00-0	Pyrene	110		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	51		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01023.D  
 Lab Smp Id: 680-89791-A-5-A Client Smp ID: HP0288A-CS-SP  
 Inj Date : 01-MAY-2013 18:33  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-89791-a-5-a  
 Misc Info : 680-89791-A-5-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\a-bFASTPAHi-m.m  
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 20  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	19.820	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.569	2.563	(1.000)	1417292	40.0000	
* 6 Acenaphthene-d10	164		3.595	3.594	(1.000)	726409	40.0000	
* 10 Phenanthrene-d10	188		4.556	4.544	(1.000)	1182534	40.0000	
\$ 14 o-Terphenyl	230		4.850	4.844	(1.064)	97930	5.06307	422.3821
* 18 Chrysene-d12	240		6.592	6.574	(1.000)	1278788	40.0000	
* 23 Perylene-d12	264		7.687	7.659	(1.000)	1526210	40.0000	
2 Naphthalene	128		2.580	2.573	(1.004)	38273	1.08026	90.1198
3 2-Methylnaphthalene	141		2.986	2.979	(1.162)	15590	0.76751	64.0288
4 1-Methylnaphthalene	142		3.039	3.033	(1.183)	13482	0.59908	49.9776
5 Acenaphthylene	152		3.509	3.503	(0.976)	13201	0.31095	25.9409
9 Fluorene	166		3.931	3.925	(1.094)	4116	0.15366	12.8190
11 Phenanthrene	178		4.567	4.560	(1.002)	48557	1.41749	118.2528
12 Anthracene	178		4.604	4.593	(1.011)	16624	0.46672	38.9360
13 Carbazole	167		4.738	4.726	(1.040)	8155	0.23733	19.7993

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	5.438	5.426	(1.193)	73238	1.85103	154.4207
16 Pyrene	202	5.603	5.592	(0.850)	65310	1.33869	111.6786
17 Benzo(a)anthracene	228	6.586	6.558	(0.999)	48566	1.16294	97.0171
19 Chrysene	228	6.602	6.590	(1.002)	73556	1.73613	144.8349
20 Benzo(b)fluoranthene	252	7.404	7.381	(0.963)	96307	2.07850	173.3972(M)
21 Benzo(k)fluoranthene	252	7.414	7.402	(0.965)	42379	0.79550	66.3639(QM)
22 Benzo(a)pyrene	252	7.633	7.605	(0.993)	53603	1.16289	97.0130
24 Indeno(1,2,3-cd)pyrene	276	8.461	8.423	(1.101)	39285	0.90263	75.3009(M)
25 Dibenzo(a,h)anthracene	278	8.488	8.450	(1.104)	9126	0.22536	18.8001
26 Benzo(g,h,i)perylene	276	8.691	8.642	(1.131)	41097	0.84370	70.3849

QC Flag Legend

Q - Qualifier signal failed the ratio test.  
M - Compound response manually integrated.

Data File: 1AE01023.D

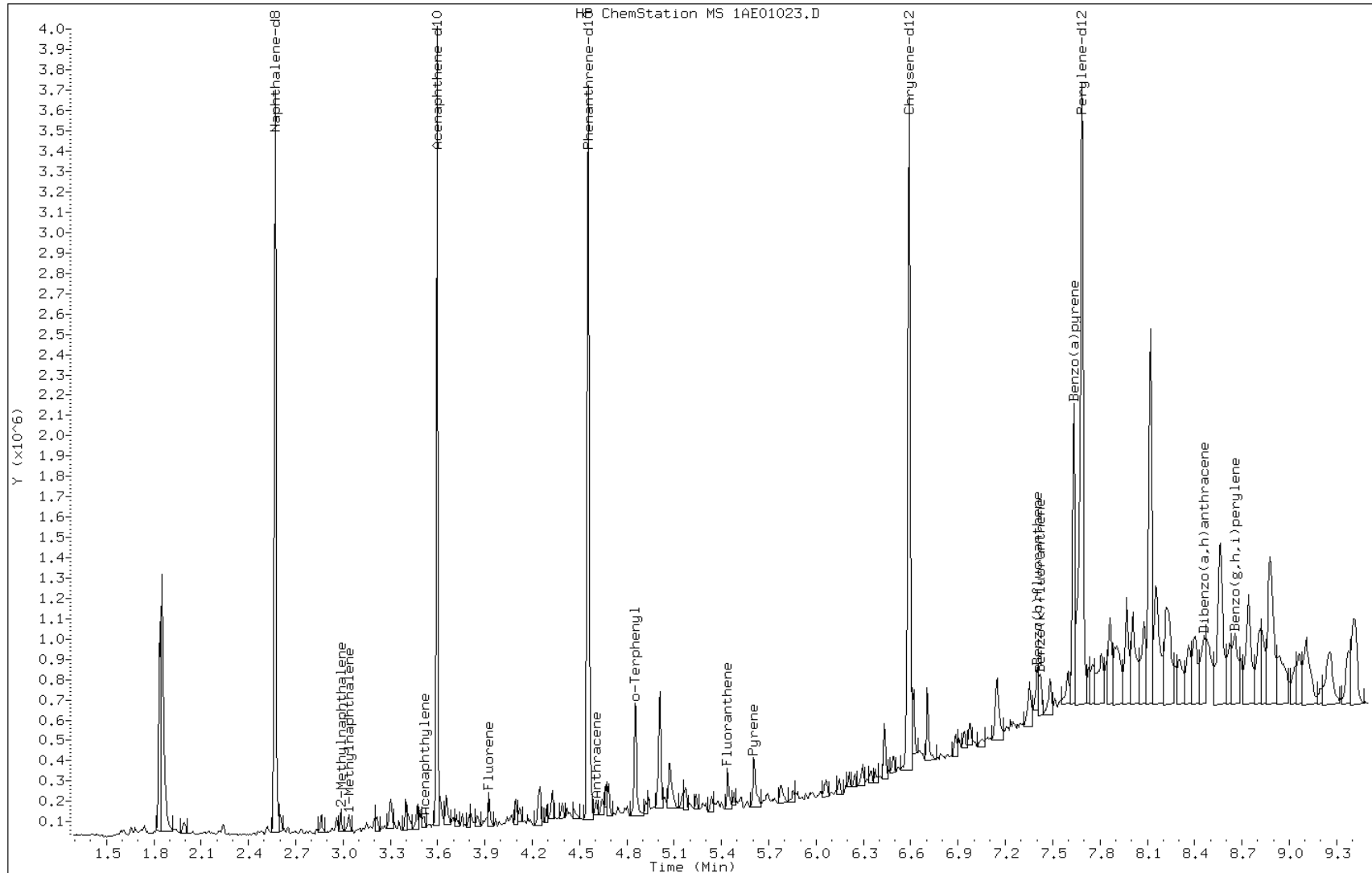
Date: 01-MAY-2013 18:33

Client ID: HP0288A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-5-a

Operator: SCC



Data File: 1AE01023.D

Date: 01-MAY-2013 18:33

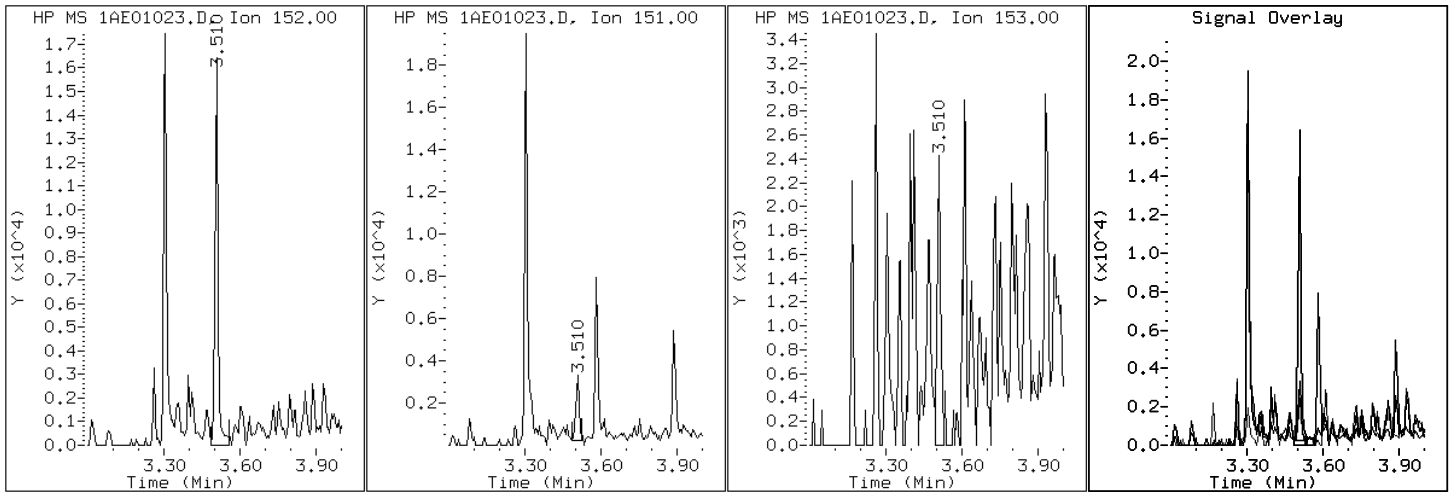
Client ID: HP0288A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-5-a

Operator: SCC

5 Acenaphthylene



Data File: 1AE01023.D

Date: 01-MAY-2013 18:33

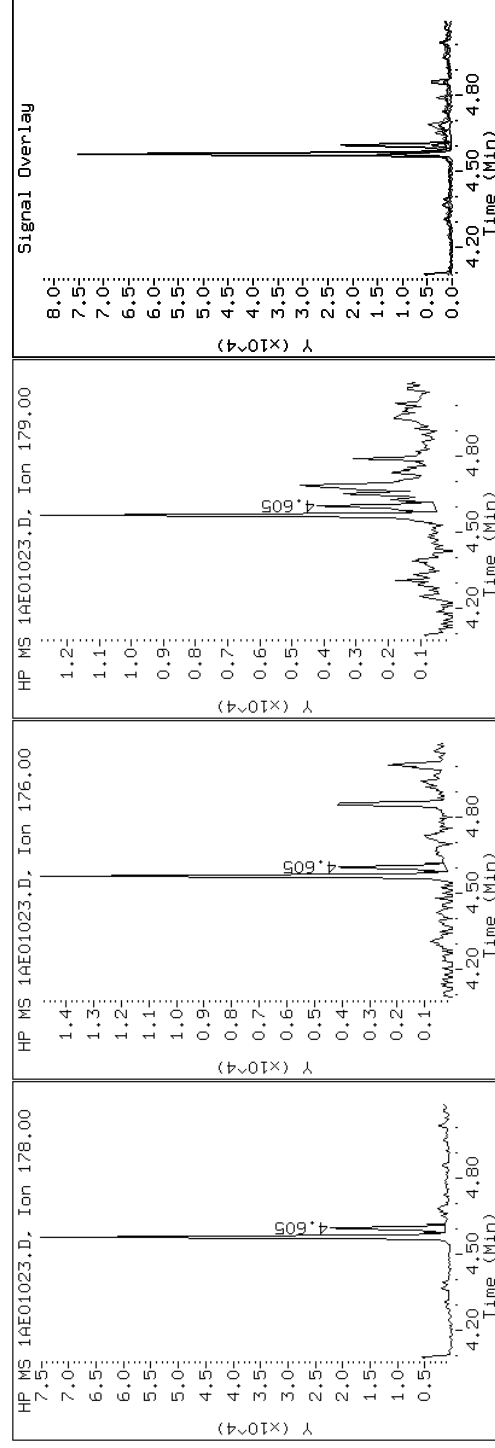
Client ID: HP0288A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-5-a

Operator: SCC

### 12 Anthracene





Data File: 1AE01023.D

Date: 01-MAY-2013 18:33

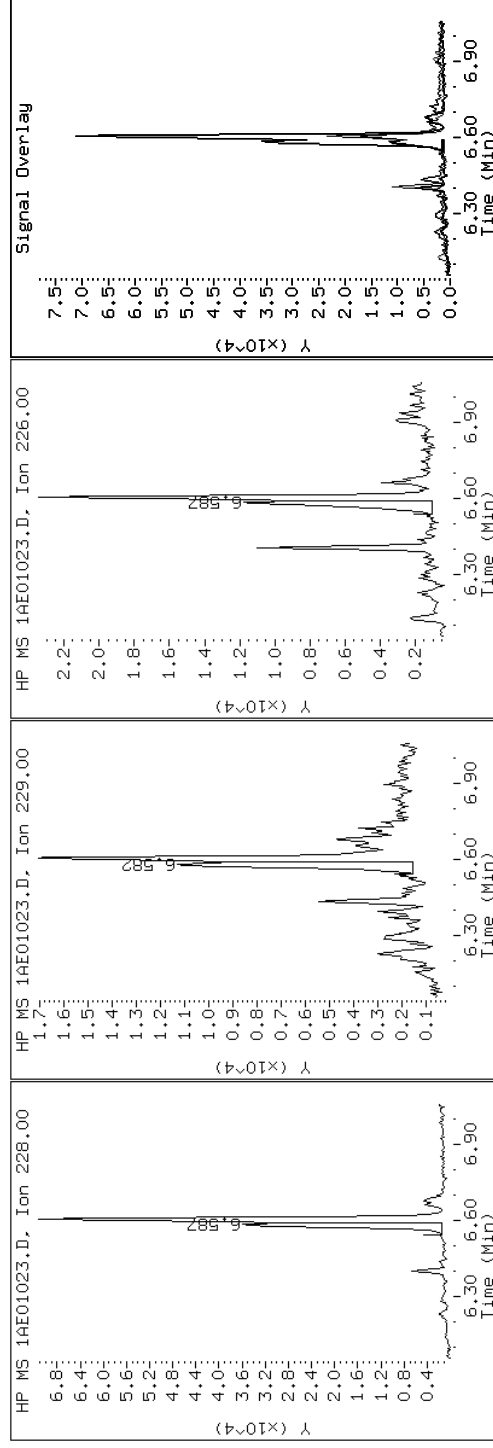
Client ID: HP0288A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-5-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AE01023.D

Date: 01-MAY-2013 18:33

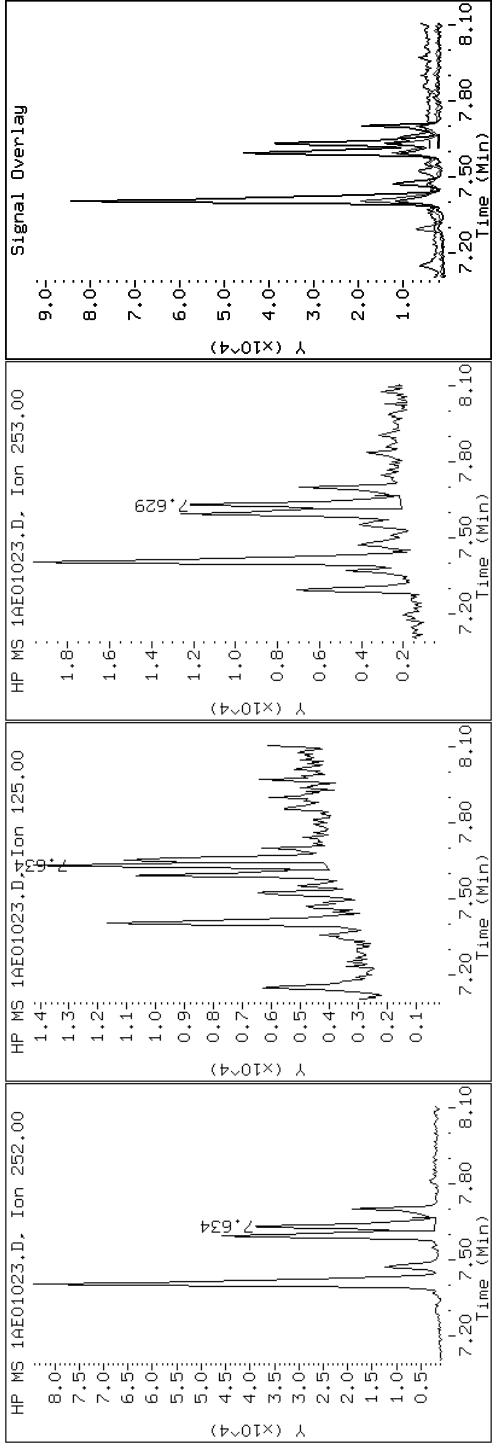
Client ID: HP0288A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-5-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AE01023.D

Date: 01-MAY-2013 18:33

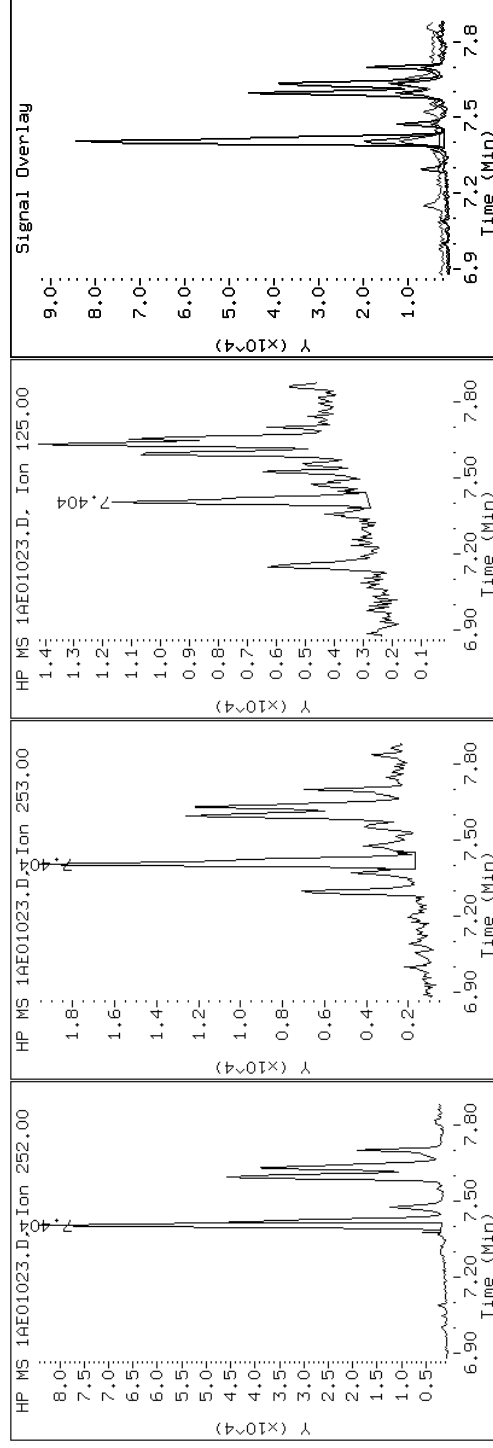
Client ID: HP0288A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-5-a

Operator: SCC

### 20 Benzo(b)fluoranthene



Data File: 1AE01023.D

Date: 01-MAY-2013 18:33

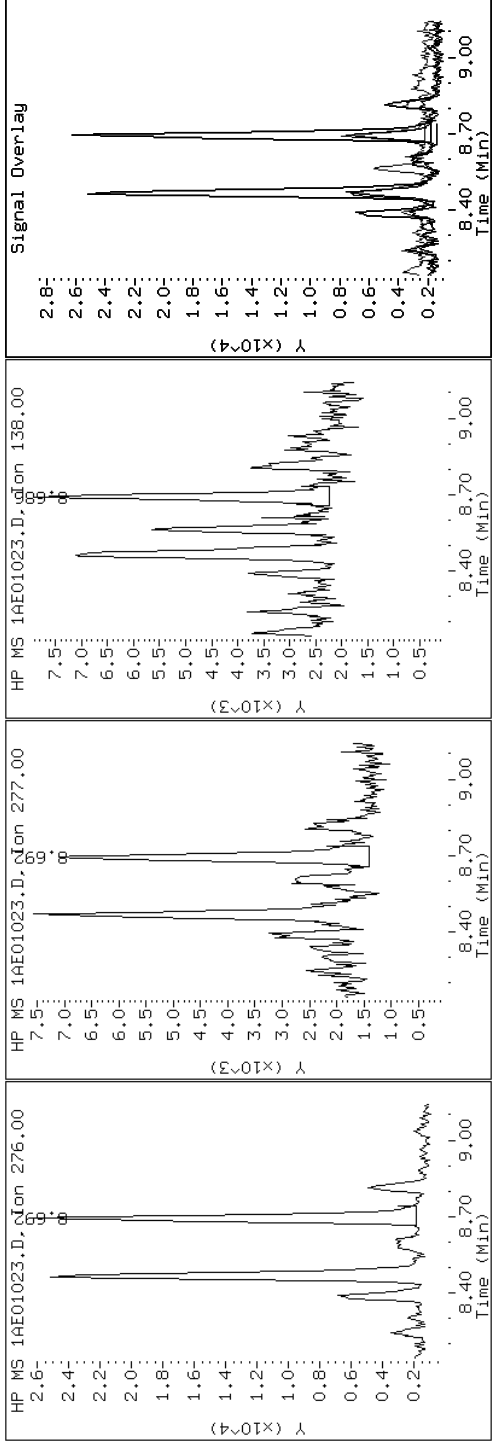
Client ID: HP0288A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-5-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AE01023.D

Date: 01-MAY-2013 18:33

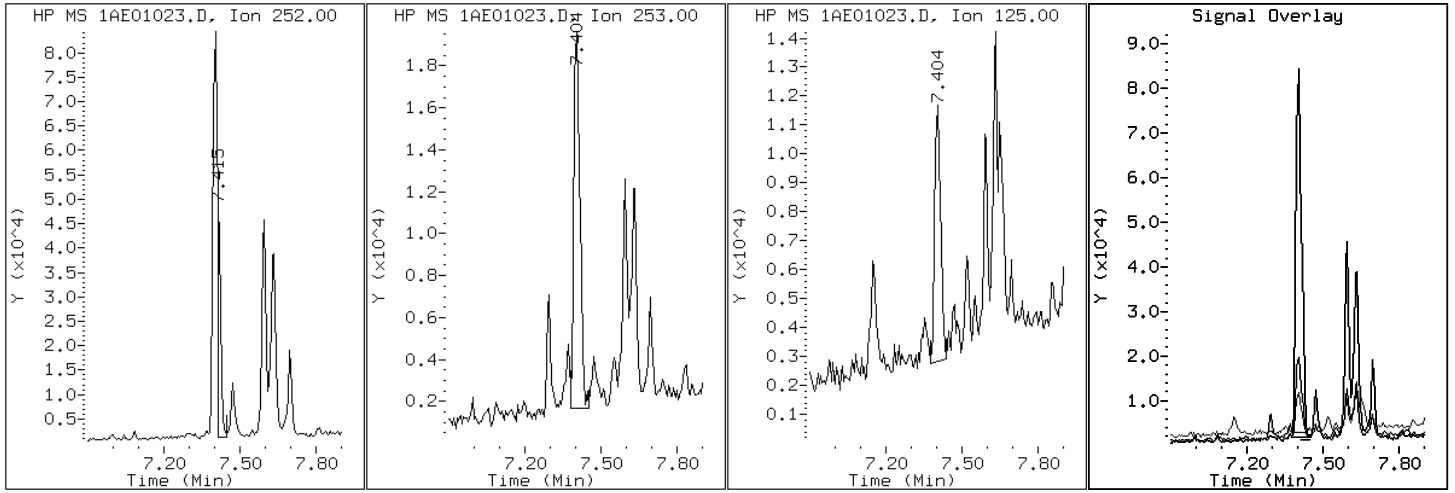
Client ID: HP0288A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-5-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AE01023.D

Date: 01-MAY-2013 18:33

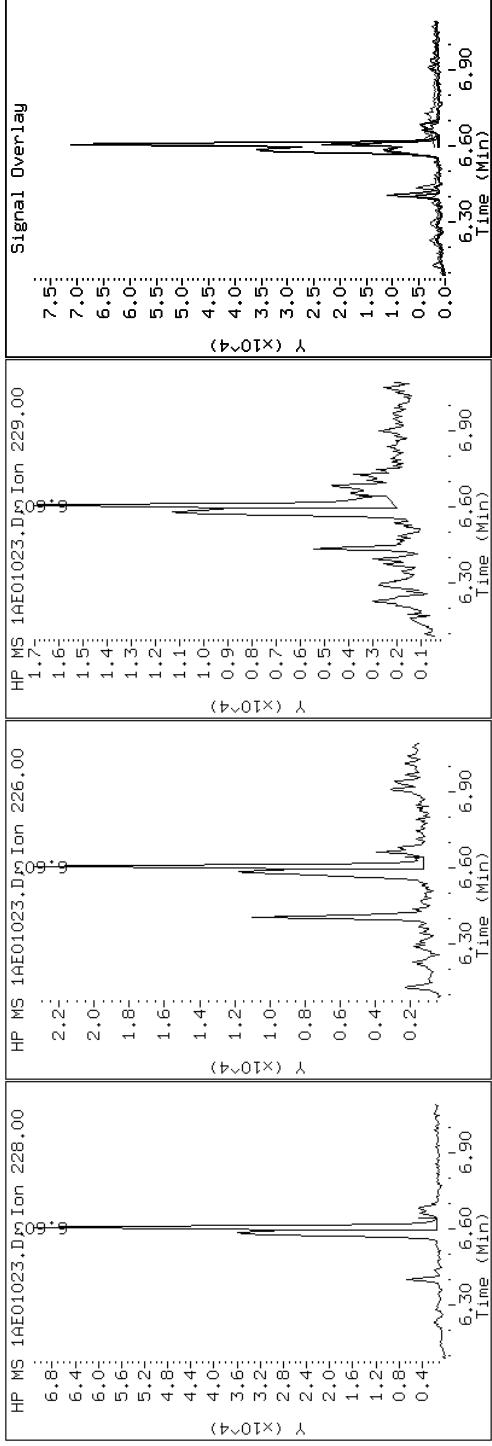
Client ID: HP0288A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-5-a

Operator: SCC

19 Chrysene



Data File: 1AE01023.D

Date: 01-MAY-2013 18:33

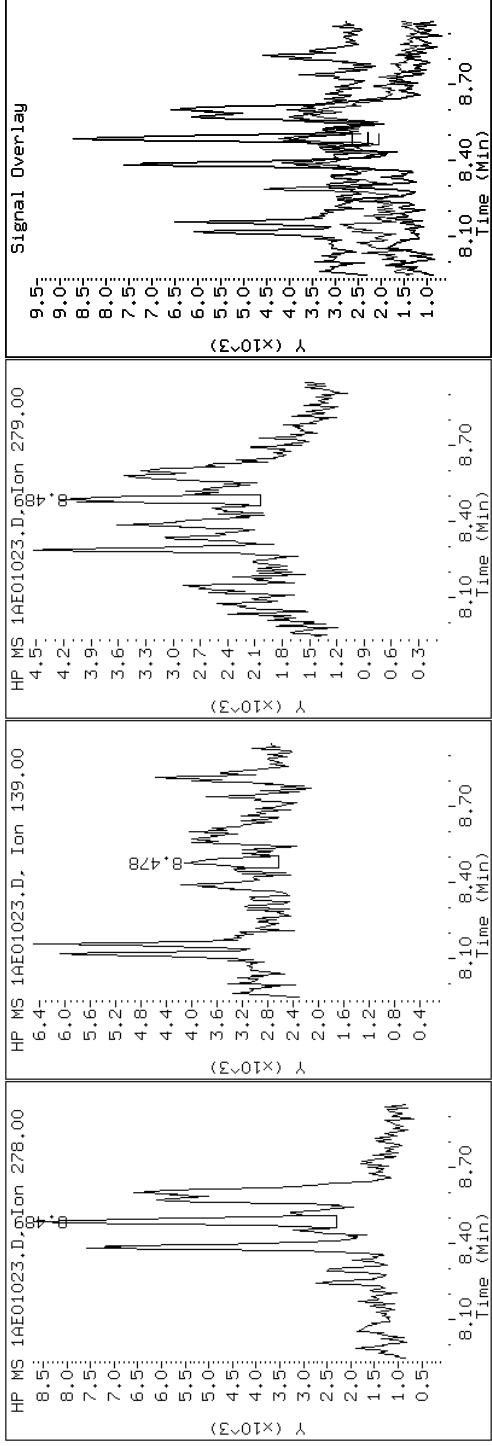
Client ID: HP0288A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-5-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AE01023.D

Date: 01-MAY-2013 18:33

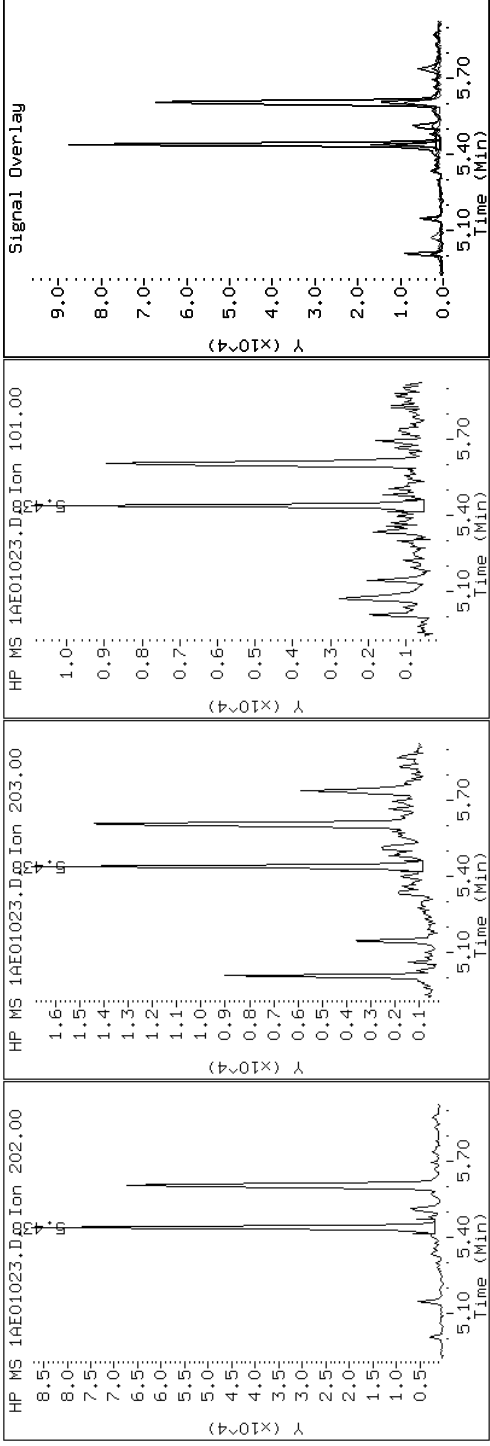
Client ID: HP0288A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-5-a

Operator: SCC

15 Fluoranthene





Data File: 1AE01023.D

Date: 01-MAY-2013 18:33

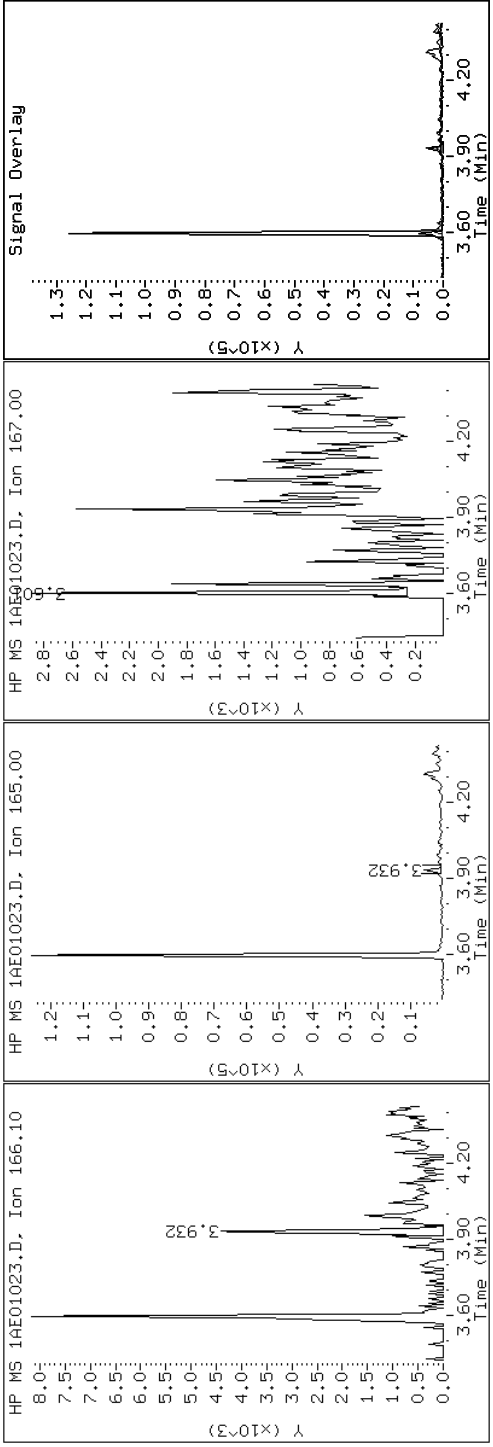
Client ID: HP0288A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-5-a

Operator: SCC

9 Fluorene



Data File: 1AE01023.D

Date: 01-MAY-2013 18:33

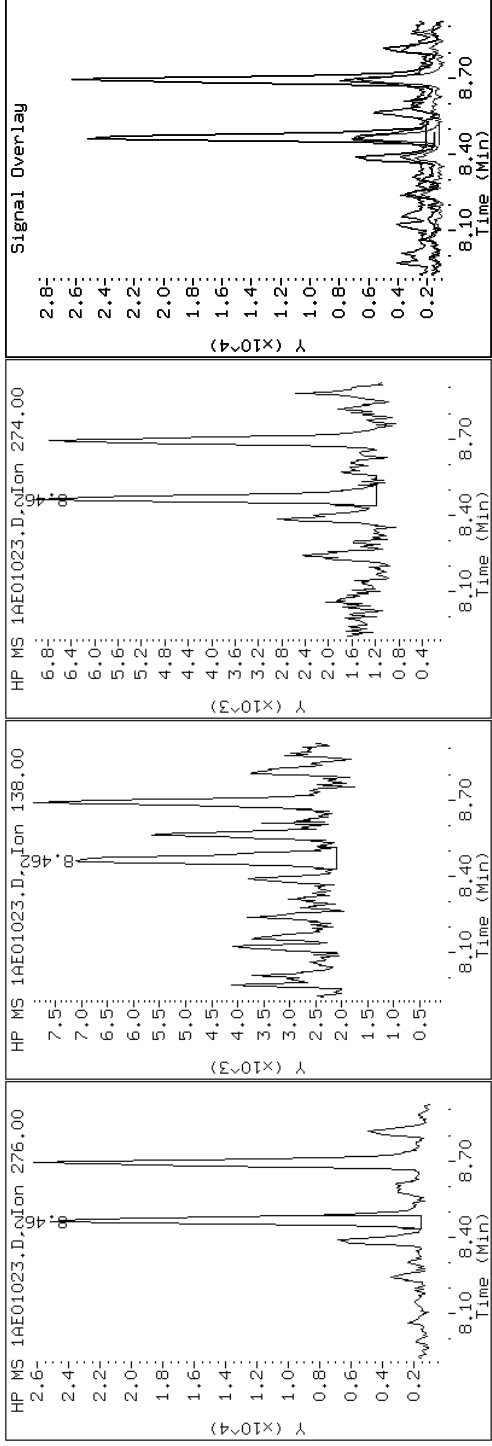
Client ID: HP0288A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-5-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



Data File: 1AE01023.D

Date: 01-MAY-2013 18:33

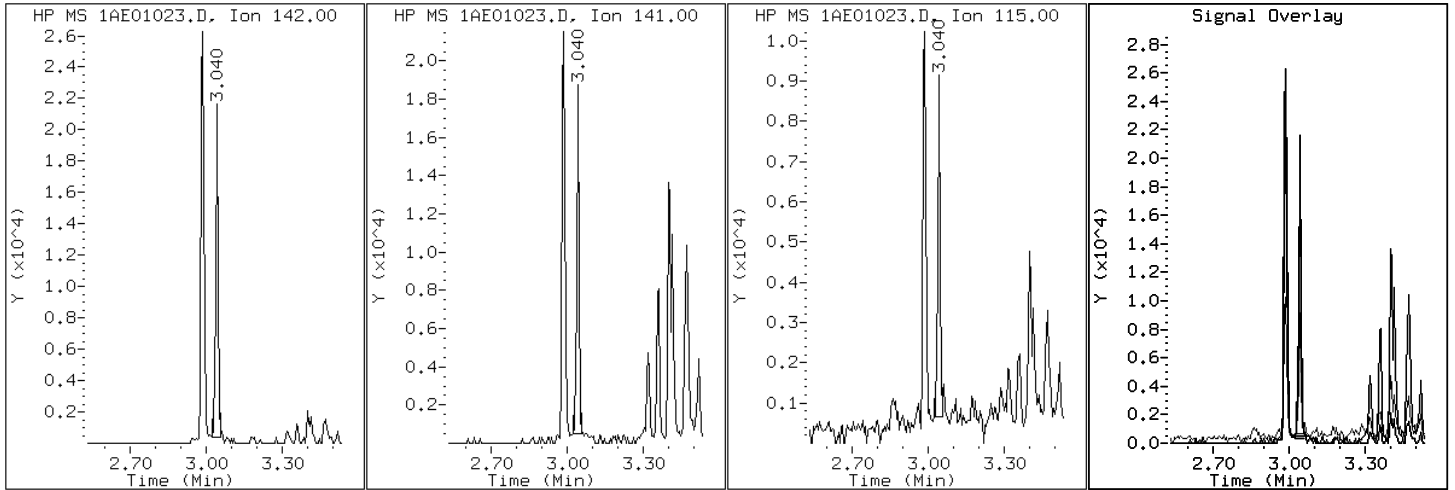
Client ID: HP0288A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-5-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE01023.D

Date: 01-MAY-2013 18:33

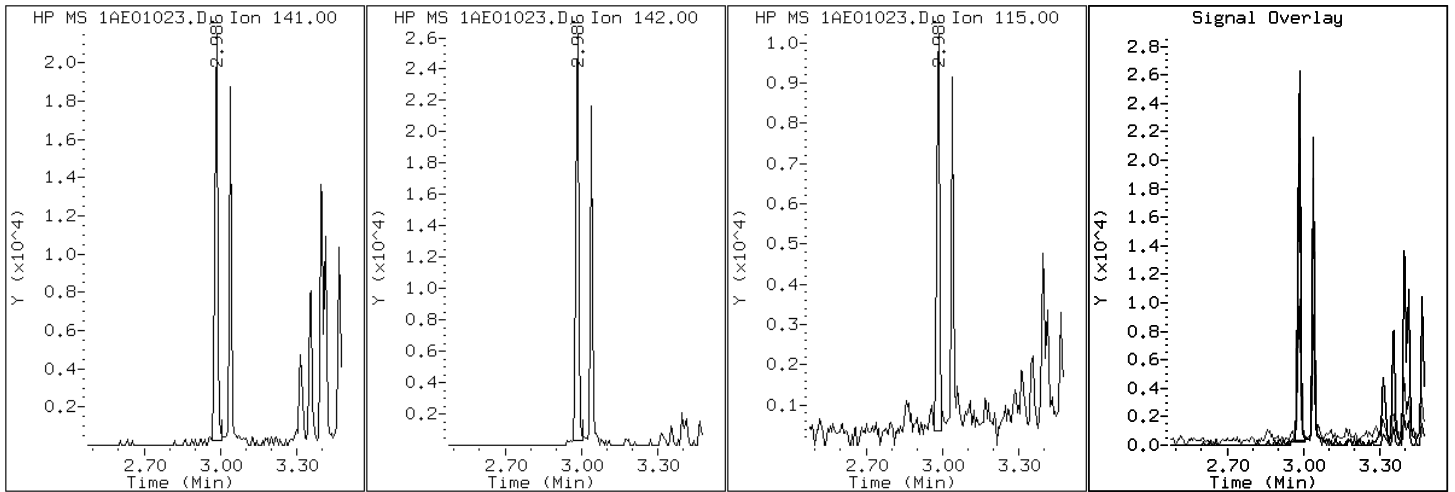
Client ID: HP0288A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-5-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AE01023.D

Date: 01-MAY-2013 18:33

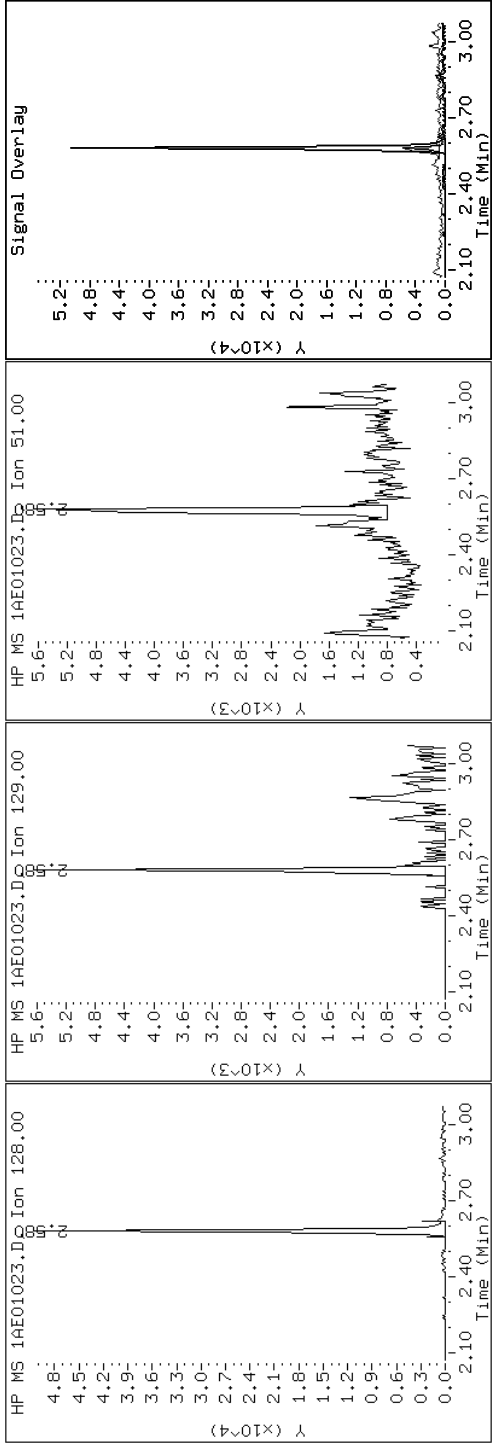
Client ID: HP0288A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-5-a

Operator: SCC

2 Naphthalene



Data File: 1AE01023.D

Date: 01-MAY-2013 18:33

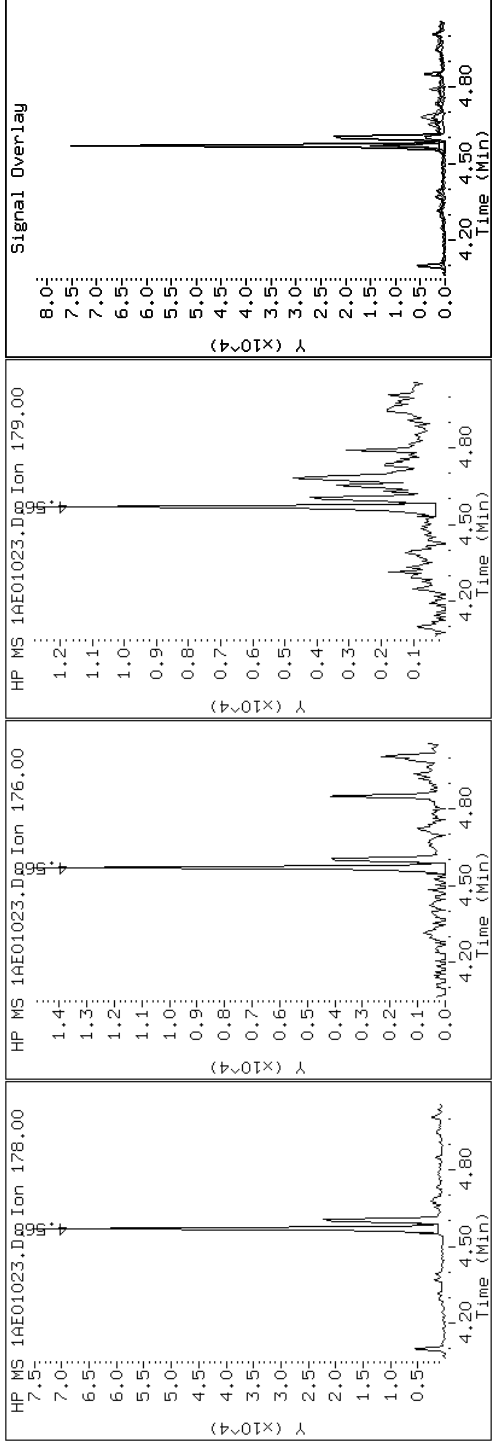
Client ID: HP0288A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-5-a

Operator: SCC

11 Phenanthrene



Data File: 1AE01023.D

Date: 01-MAY-2013 18:33

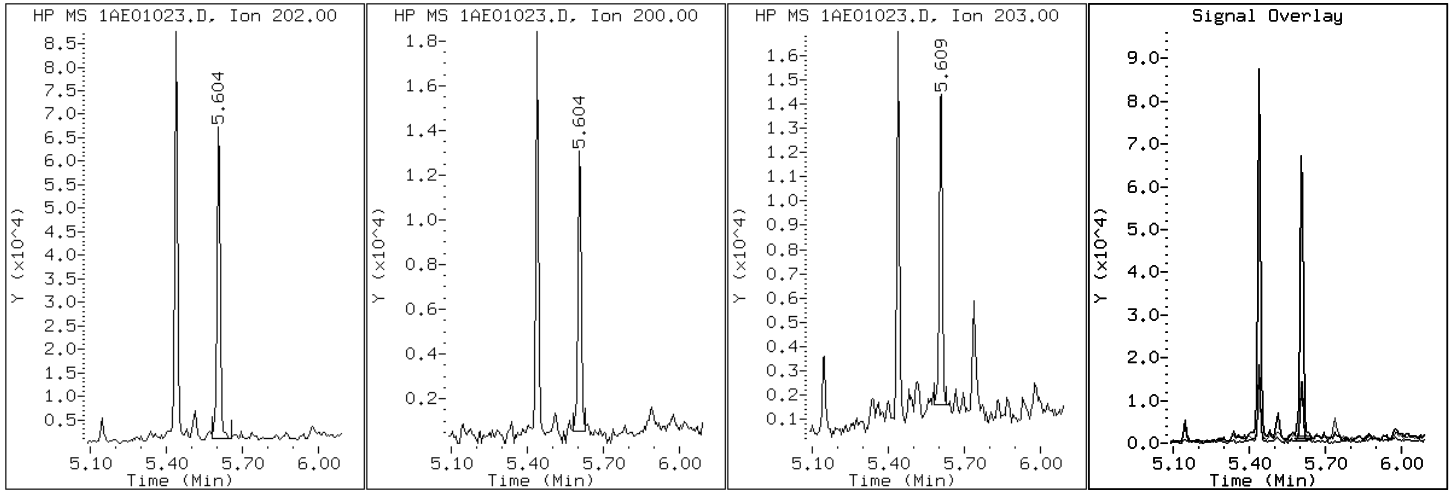
Client ID: HP0288A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-5-a

Operator: SCC

16 Pyrene

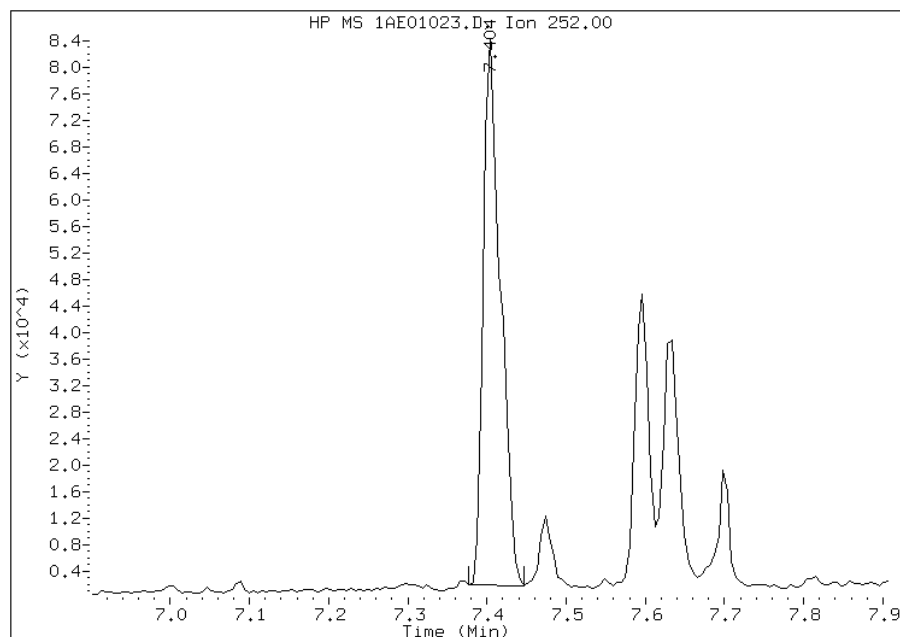


# Manual Integration Report

Data File: 1AE01023.D  
Inj. Date and Time: 01-MAY-2013 18:33  
Instrument ID: BSMA5973.i  
Client ID: HP0288A-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 05/05/2013

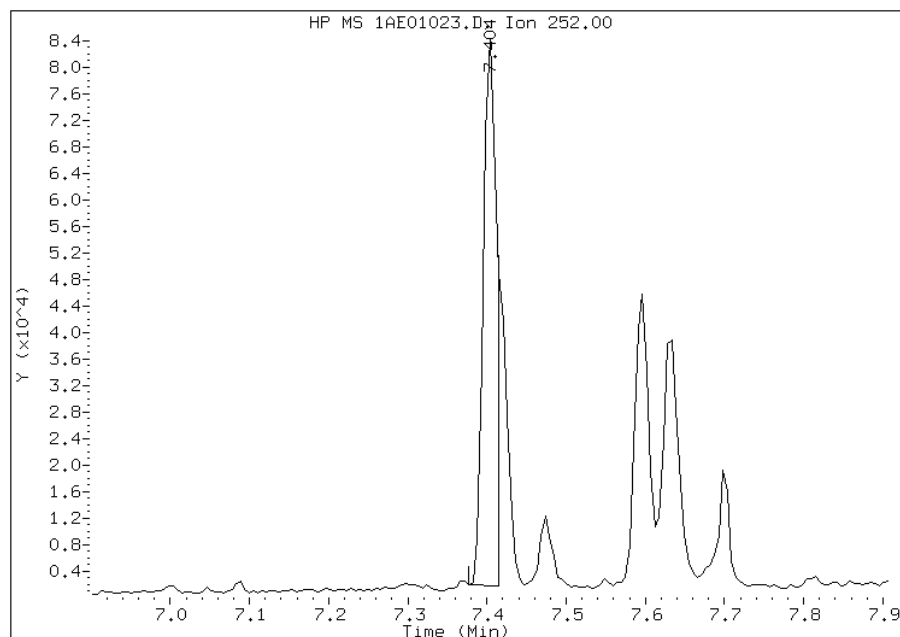
## Processing Integration Results

RT: 7.40  
Response: 122397  
Amount: 3  
Conc: 220



## Manual Integration Results

RT: 7.40  
Response: 96307  
Amount: 2  
Conc: 173



Manually Integrated By: cantins  
Modification Date: 05-May-2013 17:09  
Manual Integration Reason: Split Peak

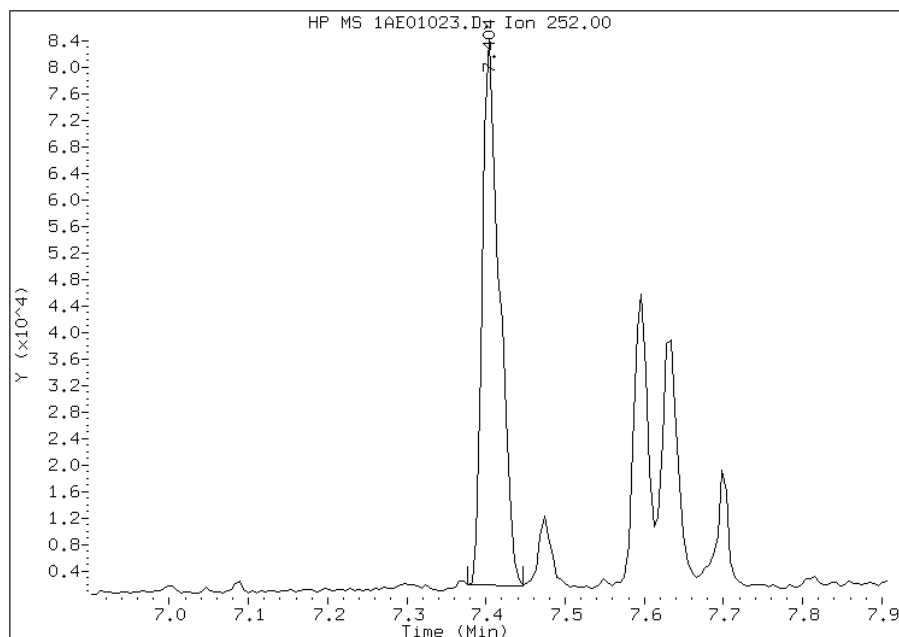


# Manual Integration Report

Data File: 1AE01023.D  
Inj. Date and Time: 01-MAY-2013 18:33  
Instrument ID: BSMA5973.i  
Client ID: HP0288A-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 05/05/2013

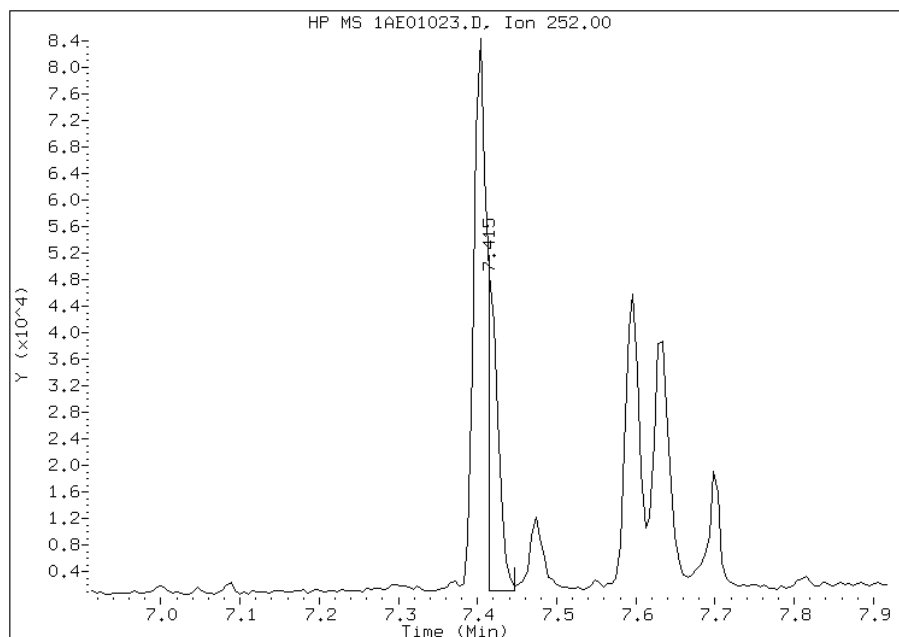
## Processing Integration Results

RT: 7.40  
Response: 122397  
Amount: 2  
Conc: 192



## Manual Integration Results

RT: 7.41  
Response: 42379  
Amount: 1  
Conc: 66



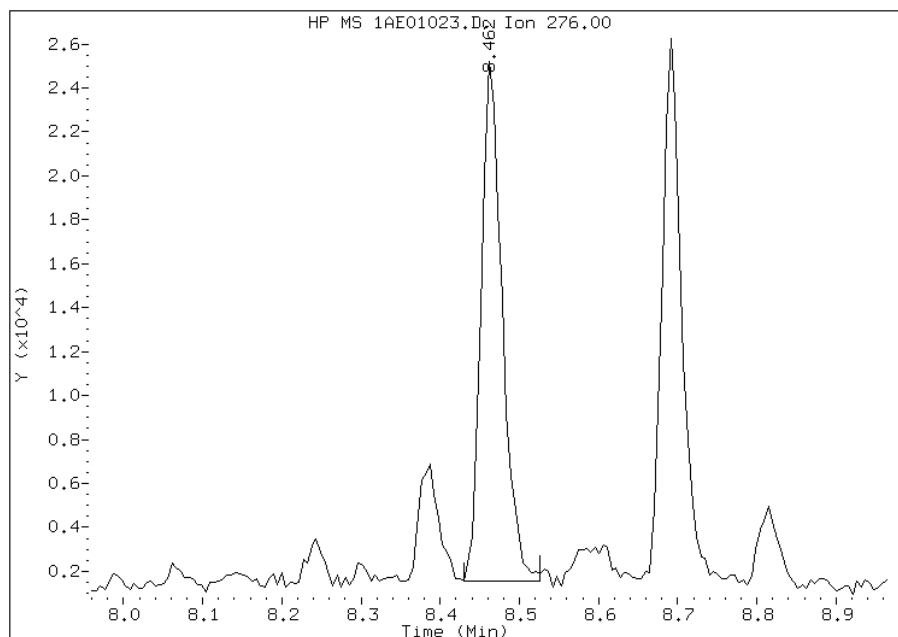
Manually Integrated By: cantins  
Modification Date: 05-May-2013 17:09  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE01023.D  
Inj. Date and Time: 01-MAY-2013 18:33  
Instrument ID: BSMA5973.i  
Client ID: HP0288A-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/05/2013

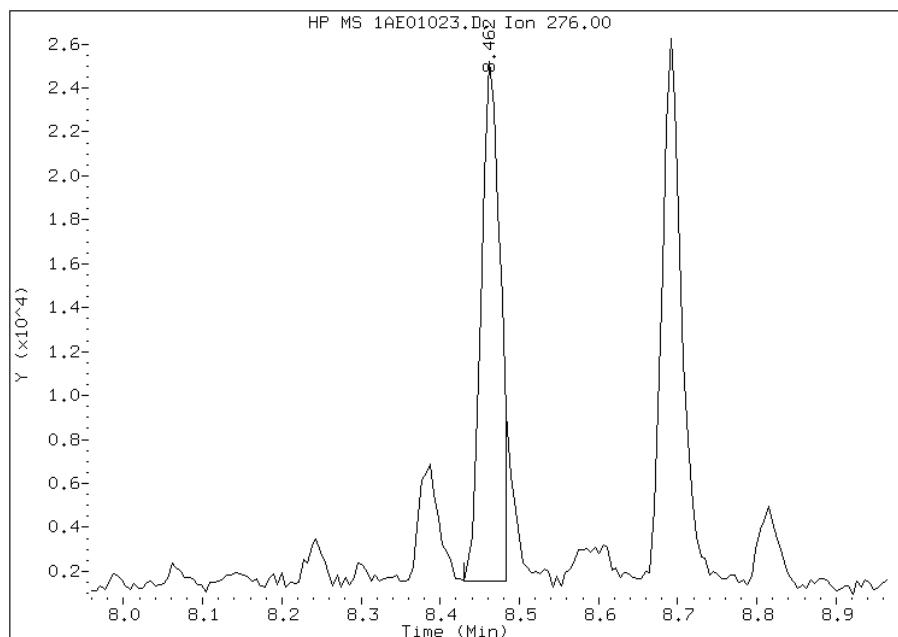
## Processing Integration Results

RT: 8.46  
Response: 43478  
Amount: 1  
Conc: 83



## Manual Integration Results

RT: 8.46  
Response: 39285  
Amount: 1  
Conc: 75



Manually Integrated By: cantins  
Modification Date: 05-May-2013 17:10  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: CV1342A-CS-SP Lab Sample ID: 680-89791-6  
 Matrix: Solid Lab File ID: 1AE01024.D  
 Analysis Method: 8270C LL Date Collected: 04/24/2013 11:20  
 Extract. Method: 3546 Date Extracted: 04/29/2013 14:27  
 Sample wt/vol: 14.99(g) Date Analyzed: 05/01/2013 18:48  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 13.6 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137001 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	58	J	120	23
208-96-8	Acenaphthylene	37	J	46	5.8
120-12-7	Anthracene	320		9.7	4.9
56-55-3	Benzo[a]anthracene	1600		9.3	4.5
50-32-8	Benzo[a]pyrene	1500		12	6.0
205-99-2	Benzo[b]fluoranthene	2200		14	7.1
191-24-2	Benzo[g,h,i]perylene	980		23	5.1
207-08-9	Benzo[k]fluoranthene	660		9.3	4.2
218-01-9	Chrysene	1400		10	5.2
53-70-3	Dibenz(a,h)anthracene	380		23	4.7
206-44-0	Fluoranthene	3300		23	4.6
86-73-7	Fluorene	58		23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	1000		23	8.2
90-12-0	1-Methylnaphthalene	140		46	5.1
91-57-6	2-Methylnaphthalene	190		46	8.2
91-20-3	Naphthalene	140		46	5.1
85-01-8	Phenanthrene	1700		9.3	4.5
129-00-0	Pyrene	2400		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	55		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01024.D  
 Lab Smp Id: 680-89791-A-6-A Client Smp ID: CV1342A-CS-SP  
 Inj Date : 01-MAY-2013 18:48  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-89791-a-6-a  
 Misc Info : 680-89791-A-6-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\a-bFASTPAHi-m.m  
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 21  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	13.559	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.567	2.563	(1.000)	1375789	40.0000	
* 6 Acenaphthene-d10	164		3.598	3.594	(1.000)	708635	40.0000	
* 10 Phenanthrene-d10	188		4.555	4.544	(1.000)	1148014	40.0000	
\$ 14 o-Terphenyl	230		4.854	4.844	(1.066)	102968	5.48361	423.2012
* 18 Chrysene-d12	240		6.601	6.574	(1.000)	1262677	40.0000	
* 23 Perylene-d12	264		7.701	7.659	(1.000)	1550920	40.0000	
2 Naphthalene	128		2.578	2.573	(1.004)	61642	1.79234	138.3250
3 2-Methylnaphthalene	141		2.984	2.979	(1.162)	48868	2.47839	191.2713
4 1-Methylnaphthalene	142		3.037	3.033	(1.183)	40310	1.84523	142.4067
5 Acenaphthylene	152		3.507	3.503	(0.975)	19914	0.48085	37.1095
7 Acenaphthene	154		3.614	3.610	(1.004)	16303	0.75064	57.9309
9 Fluorene	166		3.929	3.925	(1.092)	19480	0.74548	57.5330
11 Phenanthrene	178		4.571	4.560	(1.004)	730317	21.9607	1694.8290
12 Anthracene	178		4.603	4.593	(1.011)	143961	4.16328	321.3037

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.741	4.726	(1.041)	151519	4.54222	350.5490
15 Fluoranthene	202	5.452	5.426	(1.197)	1644586	42.8154	3304.3091
16 Pyrene	202	5.618	5.592	(0.851)	1474970	30.6188	2363.0258
17 Benzo(a)anthracene	228	6.590	6.558	(0.998)	837224	20.3036	1566.9400
19 Chrysene	228	6.617	6.590	(1.002)	757099	18.0977	1396.6987
20 Benzo(b)fluoranthene	252	7.423	7.381	(0.964)	1318544	28.0035	2161.1862(M)
21 Benzo(k)fluoranthene	252	7.434	7.402	(0.965)	461858	8.53146	658.4206(QM)
22 Benzo(a)pyrene	252	7.653	7.605	(0.994)	882308	18.8362	1453.6994
24 Indeno(1,2,3-cd)pyrene	276	8.497	8.423	(1.103)	574581	12.9915	1002.6242(M)
25 Dibenzo(a,h)anthracene	278	8.508	8.450	(1.105)	202506	4.92098	379.7796
26 Benzo(g,h,i)perylene	276	8.732	8.642	(1.134)	627004	12.6670	977.5818

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: 1AE01024.D

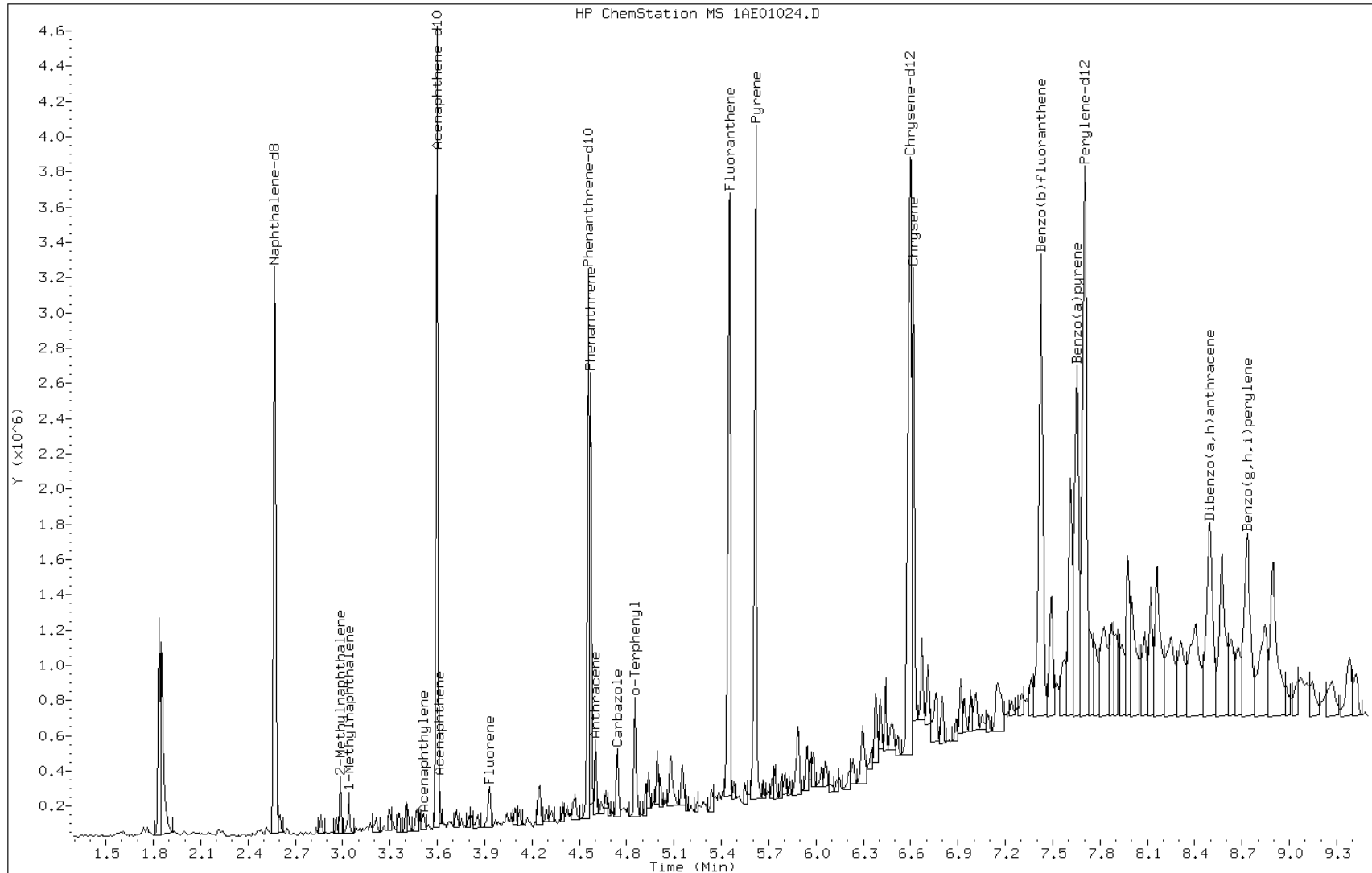
Date: 01-MAY-2013 18:48

Client ID: CV1342A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-6-a

Operator: SCC



Data File: 1AE01024.D

Date: 01-MAY-2013 18:48

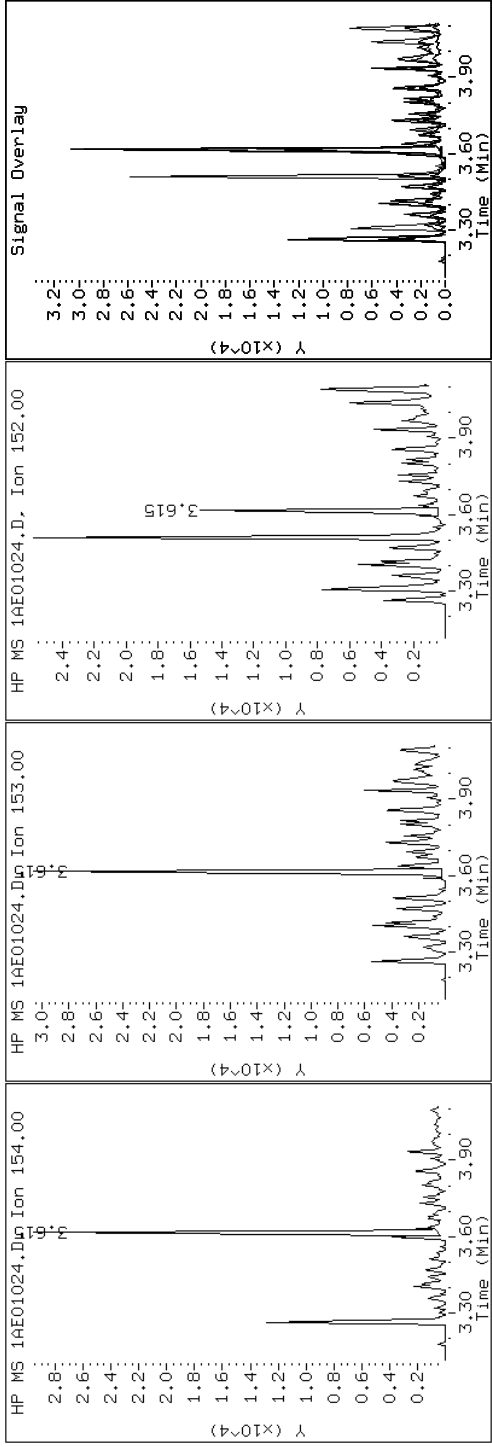
Client ID: CV1342A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-6-a

Operator: SCC

7 Acenaphthene



Data File: 1AE01024.D

Date: 01-MAY-2013 18:48

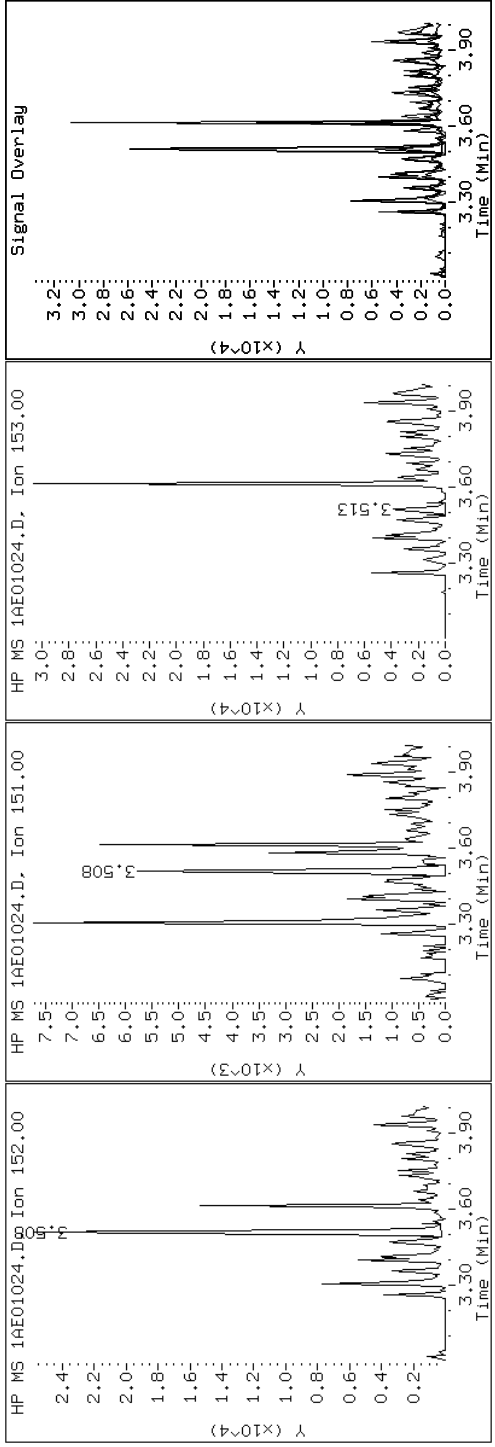
Client ID: CVI342A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-6-a

Operator: SCC

5 Acenaphthylene





Data File: 1AE01024.D

Date: 01-MAY-2013 18:48

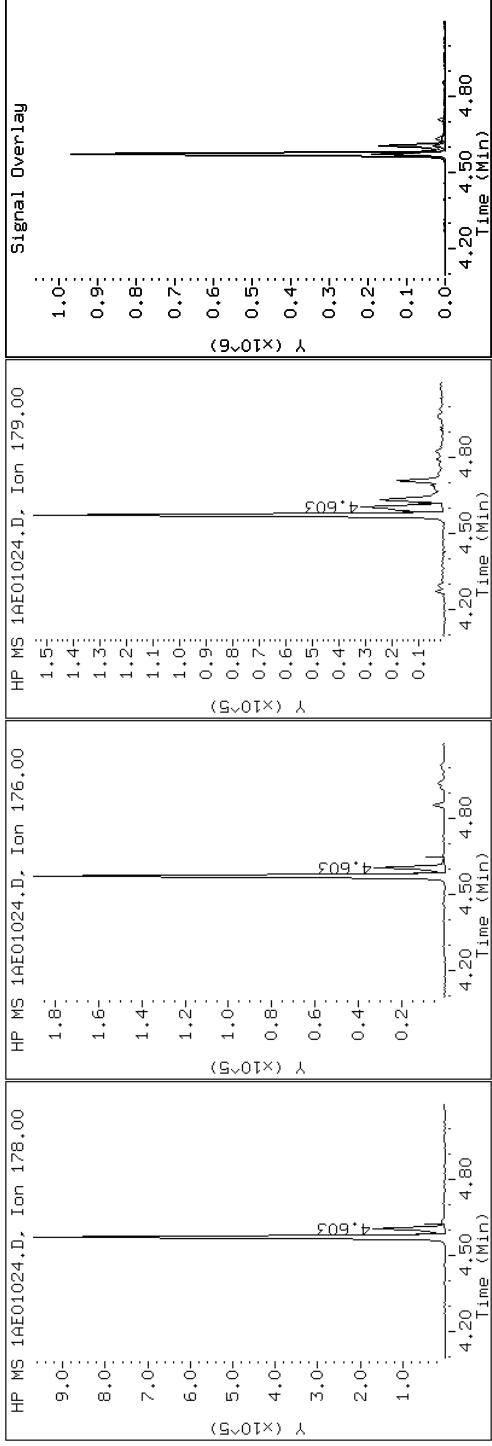
Client ID: CVI342A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-6-a

Operator: SCC

12 Anthracene



Data File: 1AE01024.D

Date: 01-MAY-2013 18:48

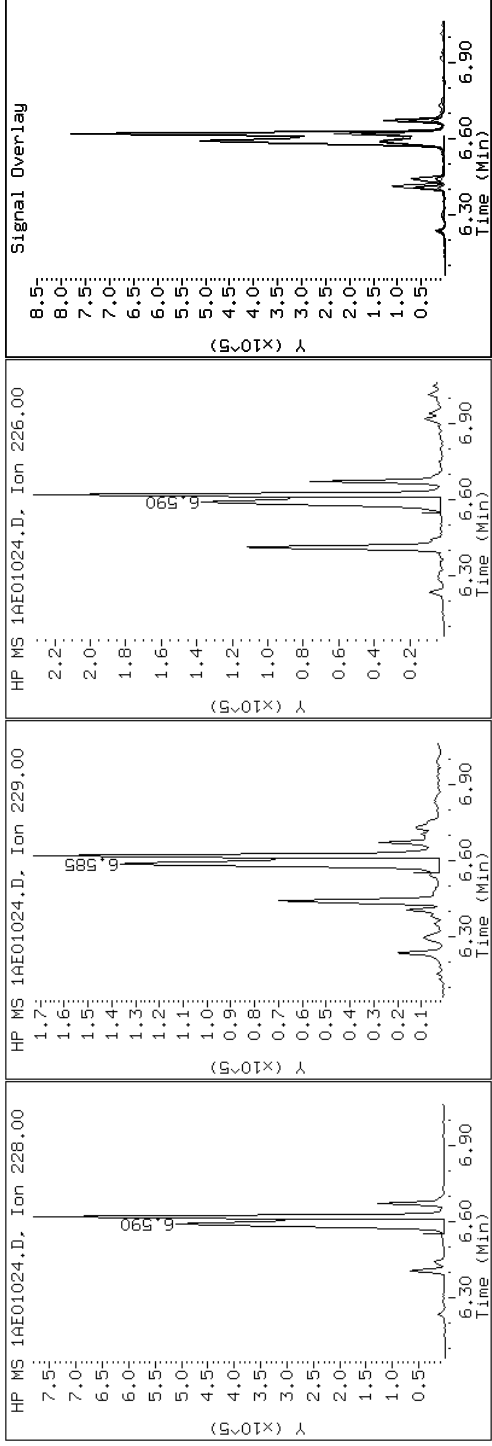
Client ID: CV1342A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-6-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AE01024.D

Date: 01-MAY-2013 18:48

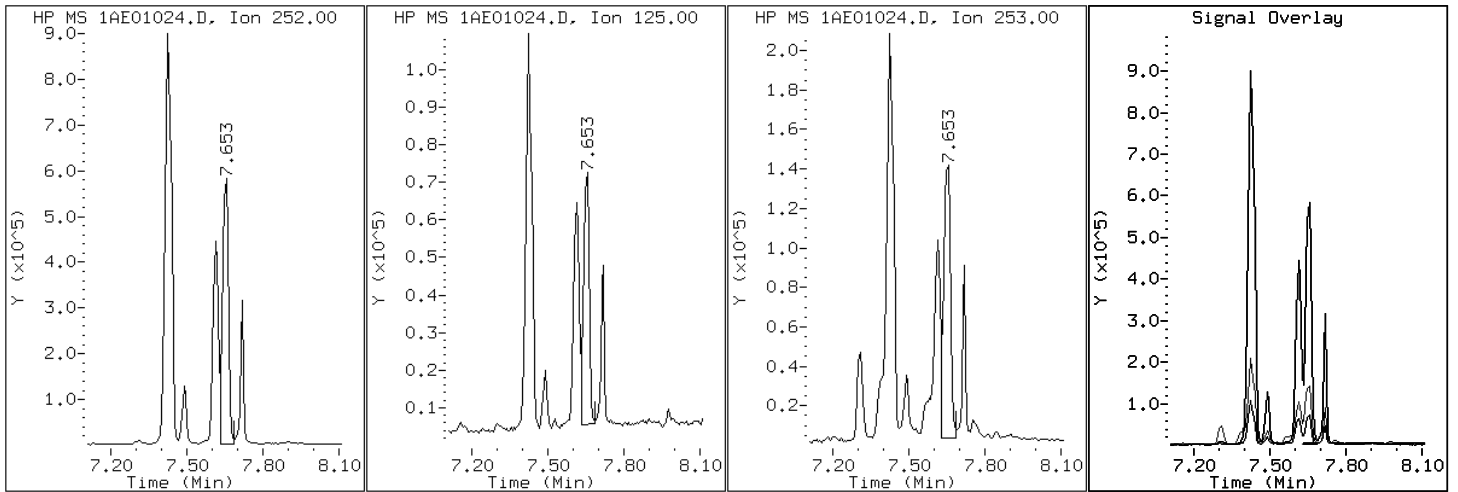
Client ID: CV1342A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-6-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AE01024.D

Date: 01-MAY-2013 18:48

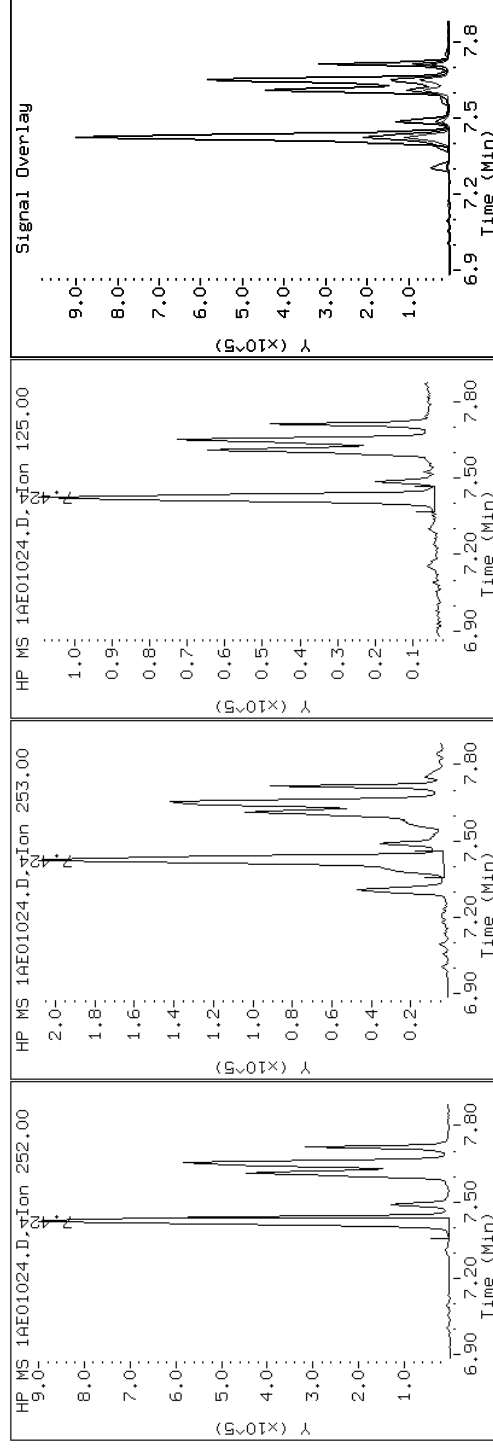
Client ID: CV1342A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-6-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AE01024.D

Date: 01-MAY-2013 18:48

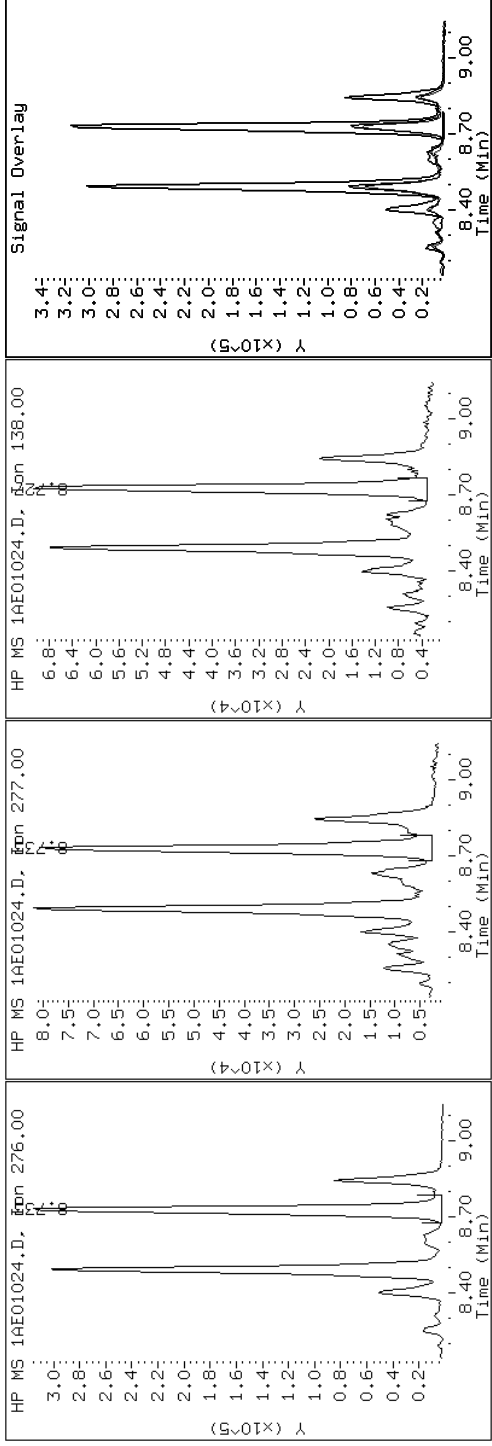
Client ID: CV1342A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-6-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AE01024.D

Date: 01-MAY-2013 18:48

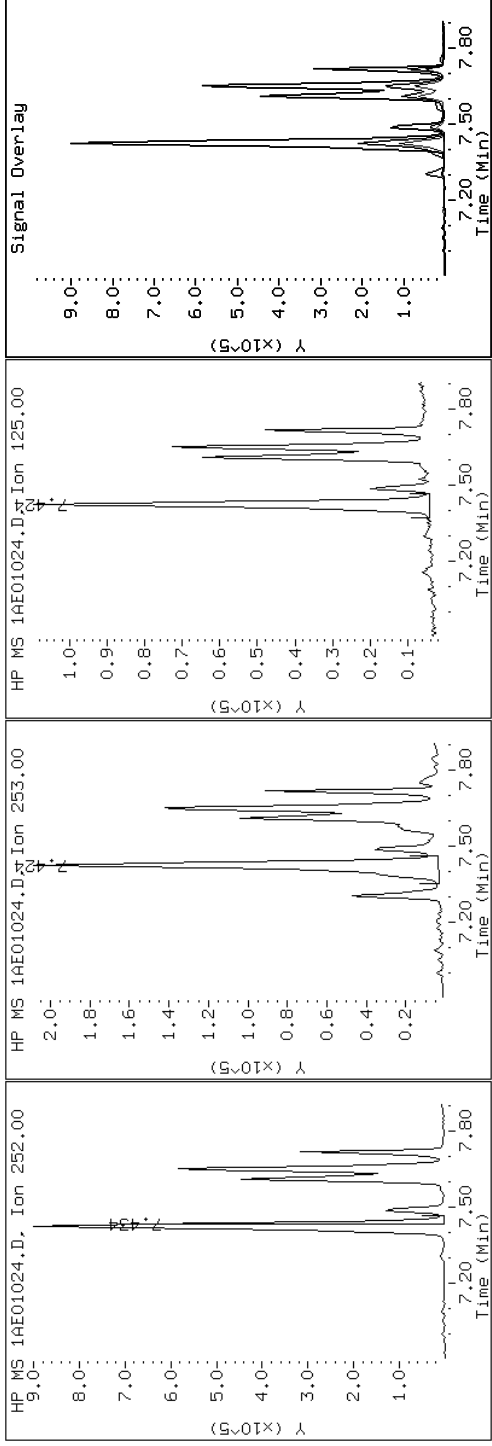
Client ID: CV1342A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-6-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AE01024.D

Date: 01-MAY-2013 18:48

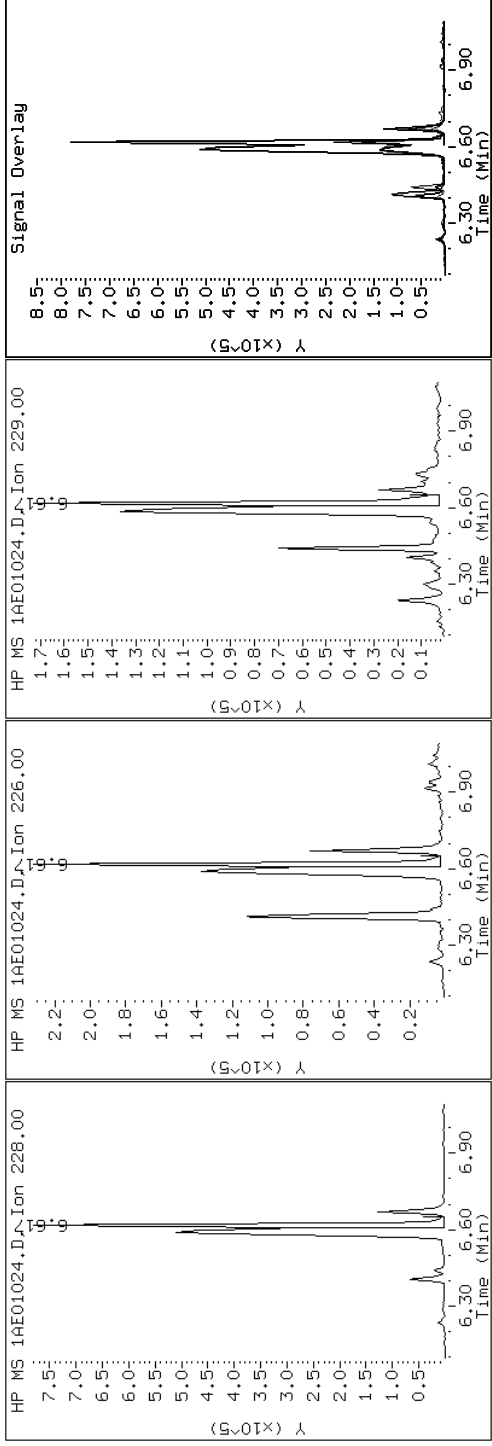
Client ID: CV1342A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-6-a

Operator: SCC

19 Chrysene



Data File: 1AE01024.D

Date: 01-MAY-2013 18:48

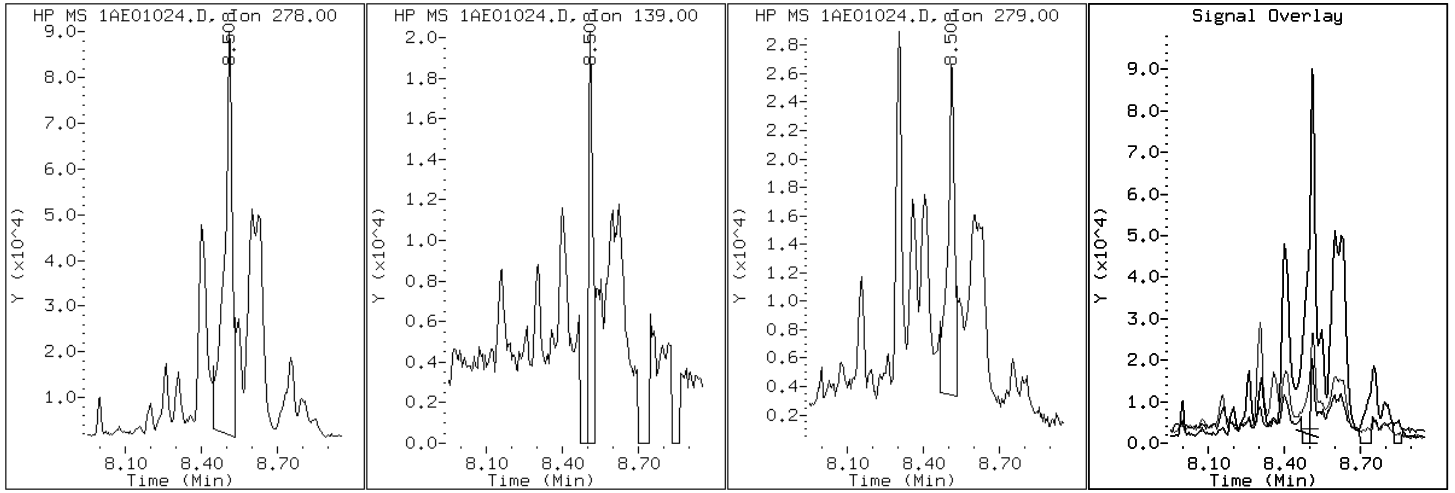
Client ID: CV1342A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-6-a

Operator: SCC

25 Dibenzo(a,h)anthracene





Data File: 1AE01024.D

Date: 01-MAY-2013 18:48

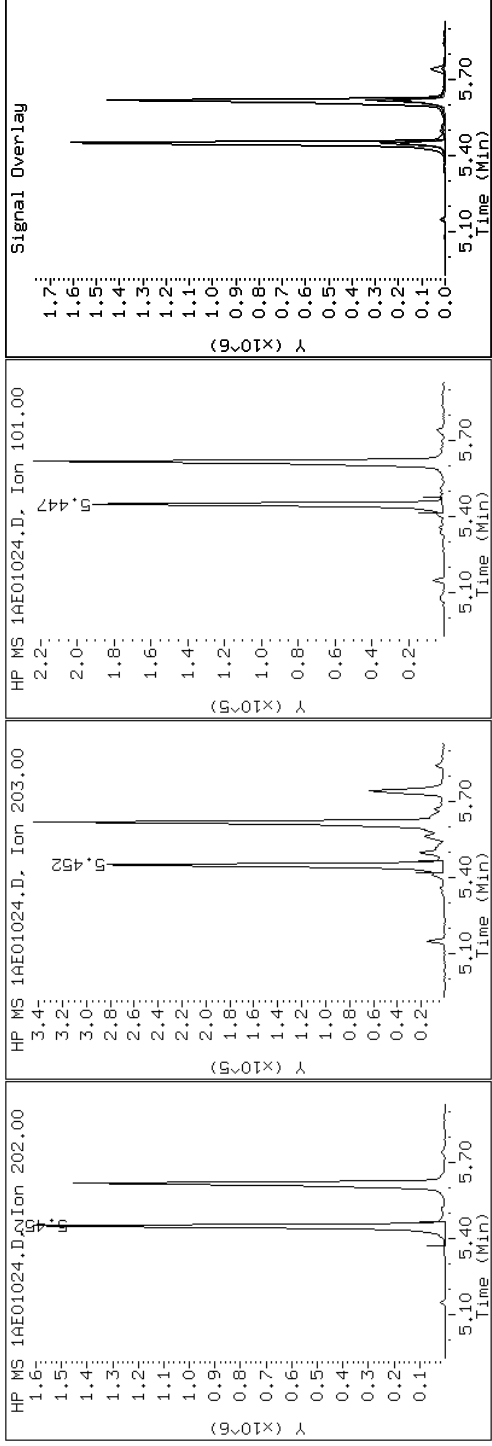
Client ID: CV1342A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-6-a

Operator: SCC

15 Fluoranthene



Data File: 1AE01024.D

Date: 01-MAY-2013 18:48

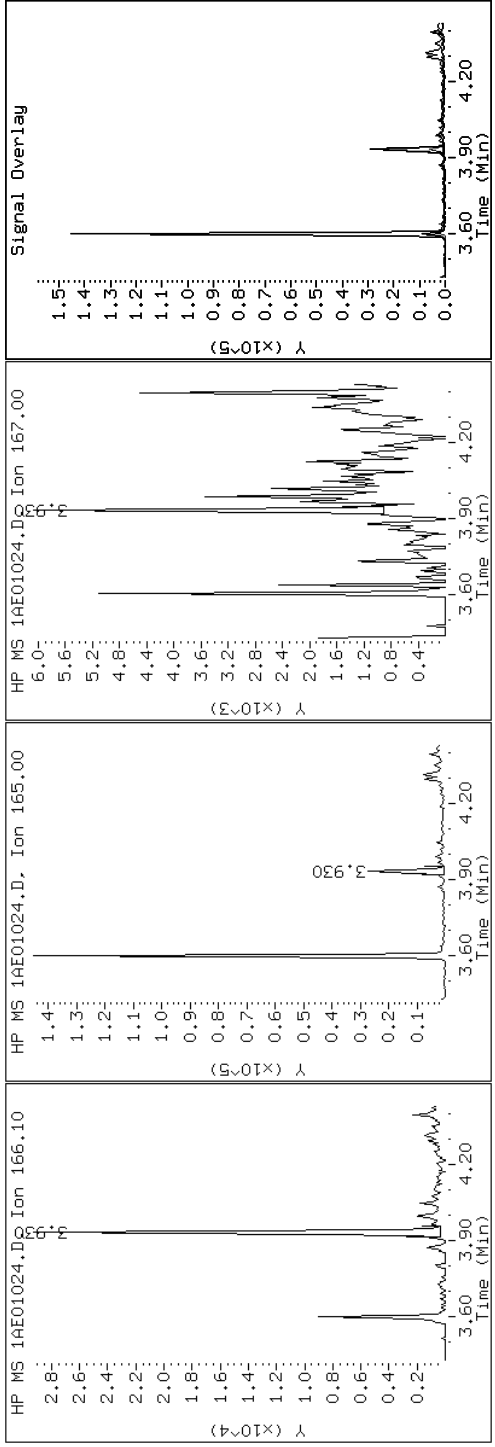
Client ID: CVI342A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-6-a

Operator: SCC

9 Fluorene



Data File: 1AE01024.D

Date: 01-MAY-2013 18:48

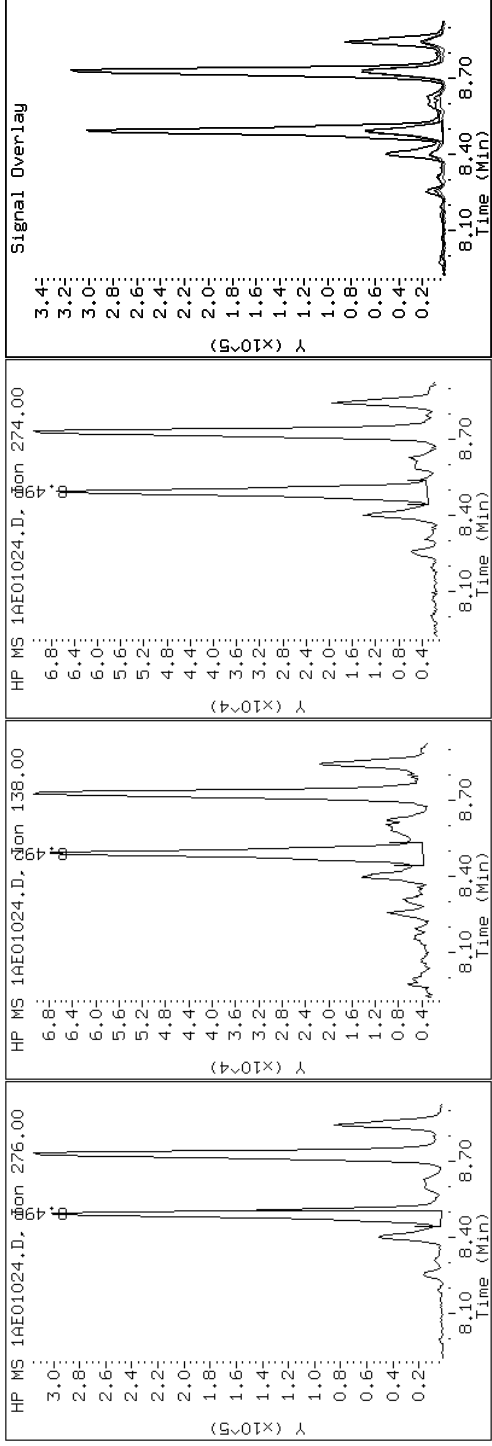
Client ID: CV1342A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-6-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



Data File: 1AE01024.D

Date: 01-MAY-2013 18:48

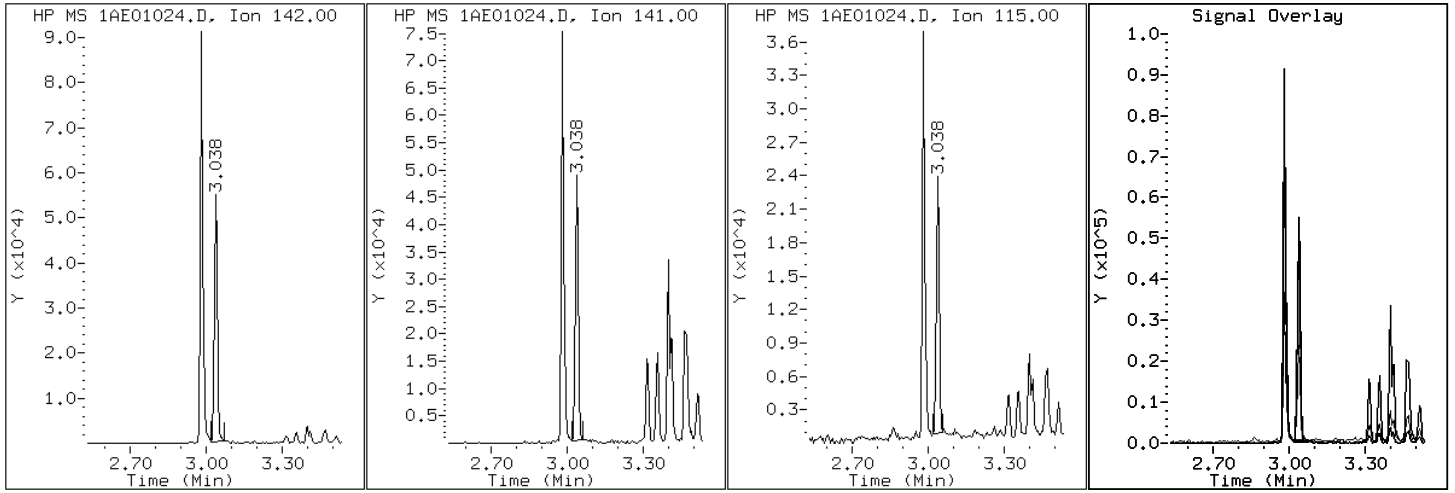
Client ID: CV1342A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-6-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE01024.D

Date: 01-MAY-2013 18:48

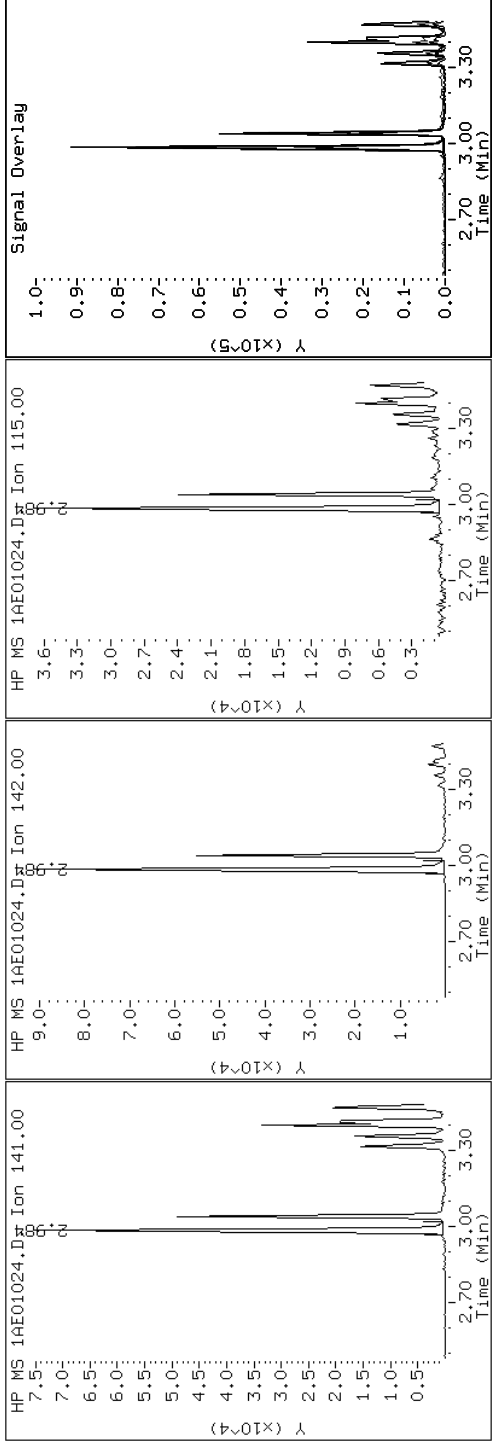
Client ID: CV1342A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-6-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1AE01024.D

Date: 01-MAY-2013 18:48

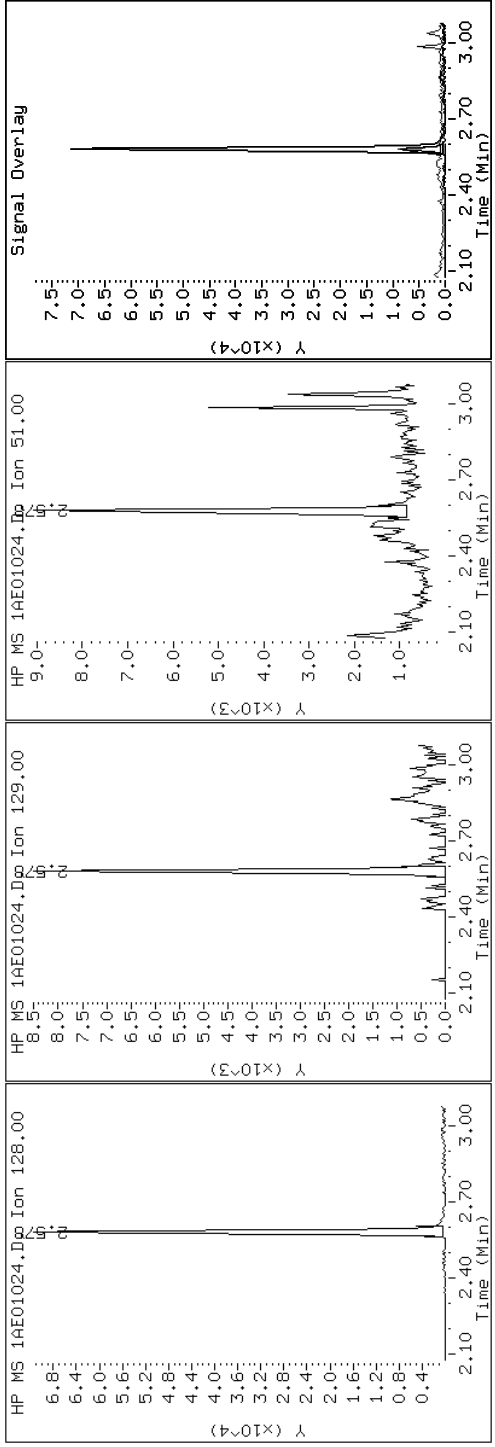
Client ID: CV1342A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-6-a

Operator: SCC

2 Naphthalene



Data File: 1AE01024.D

Date: 01-MAY-2013 18:48

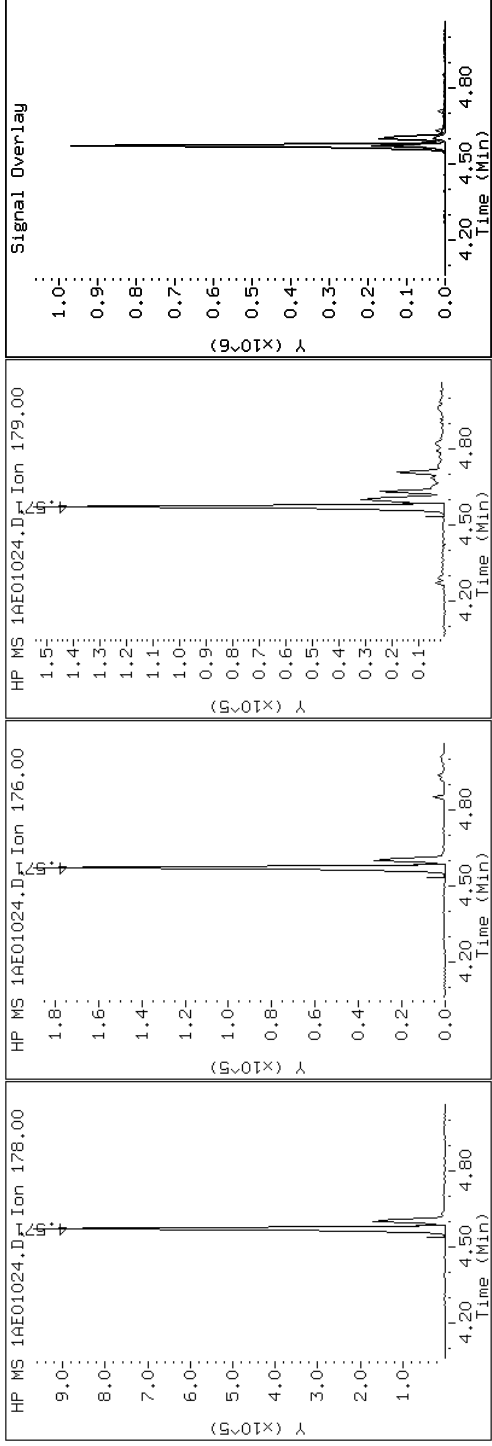
Client ID: CV1342A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-6-a

Operator: SCC

11 Phenanthrene



Data File: 1AE01024.D

Date: 01-MAY-2013 18:48

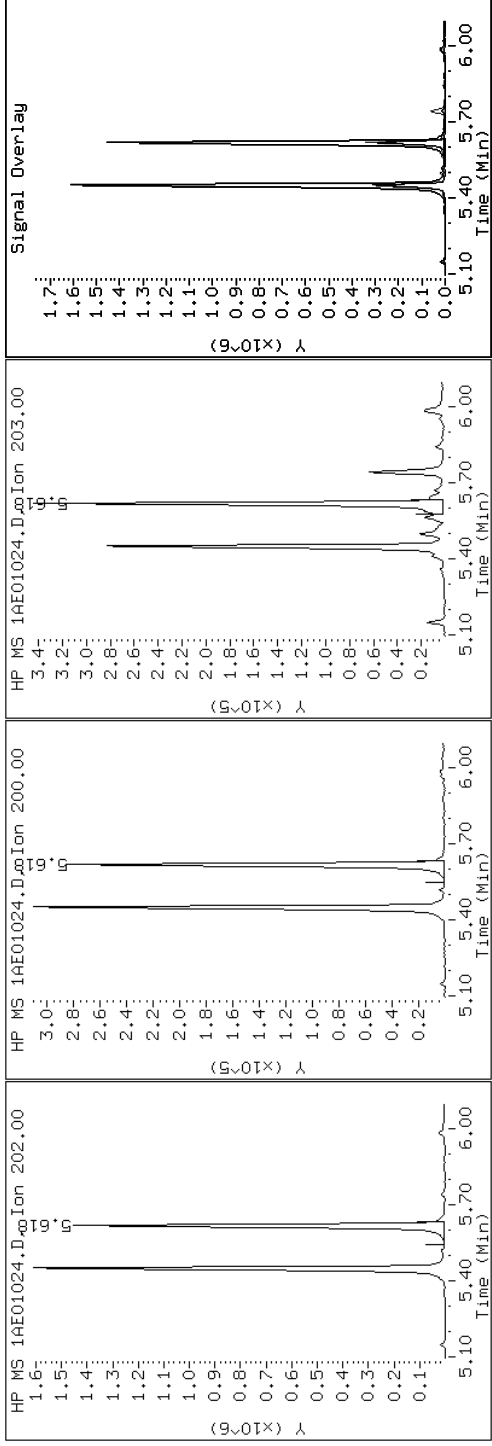
Client ID: CV1342A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-6-a

Operator: SCC

16 Pyrene



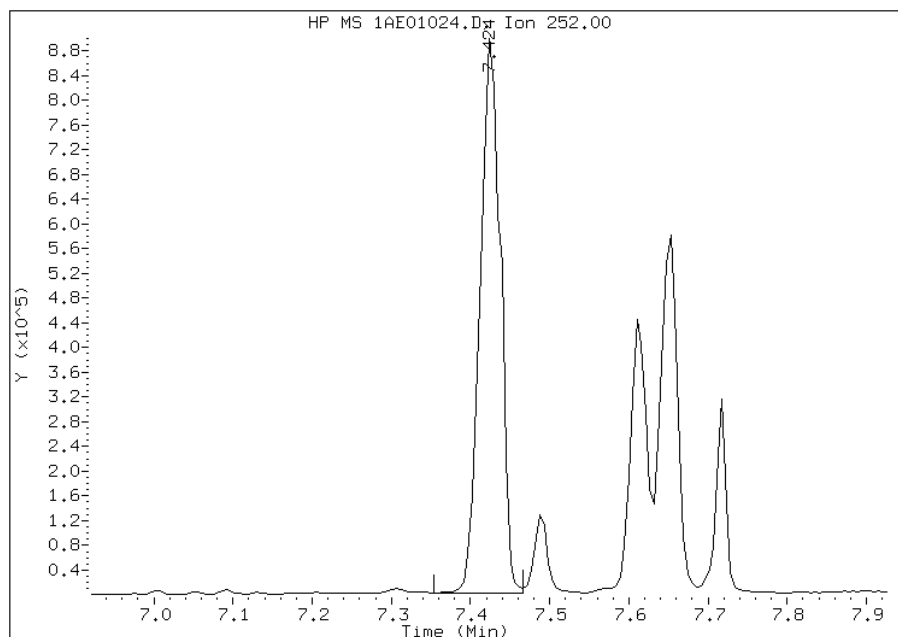


# Manual Integration Report

Data File: 1AE01024.D  
Inj. Date and Time: 01-MAY-2013 18:48  
Instrument ID: BSMA5973.i  
Client ID: CV1342A-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 05/05/2013

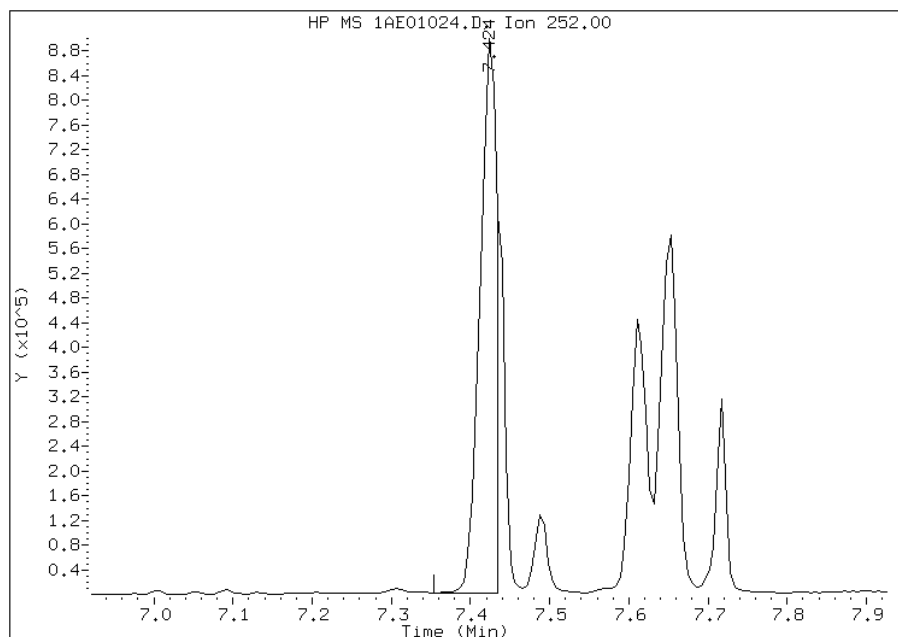
## Processing Integration Results

RT: 7.42  
Response: 1583874  
Amount: 34  
Conc: 2596



## Manual Integration Results

RT: 7.42  
Response: 1318544  
Amount: 28  
Conc: 2161



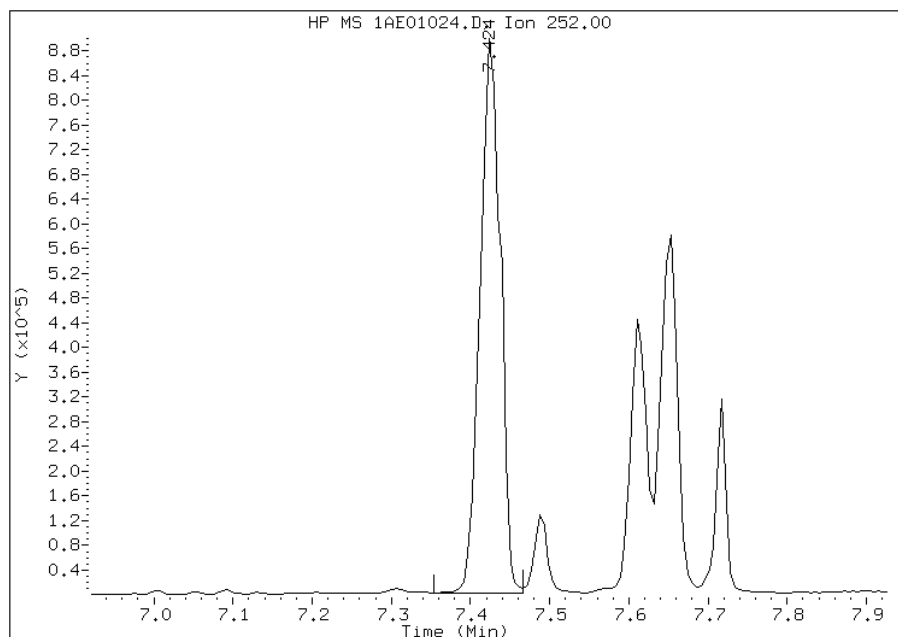
Manually Integrated By: cantins  
Modification Date: 05-May-2013 17:10  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AE01024.D  
Inj. Date and Time: 01-MAY-2013 18:48  
Instrument ID: BSMA5973.i  
Client ID: CV1342A-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 05/05/2013

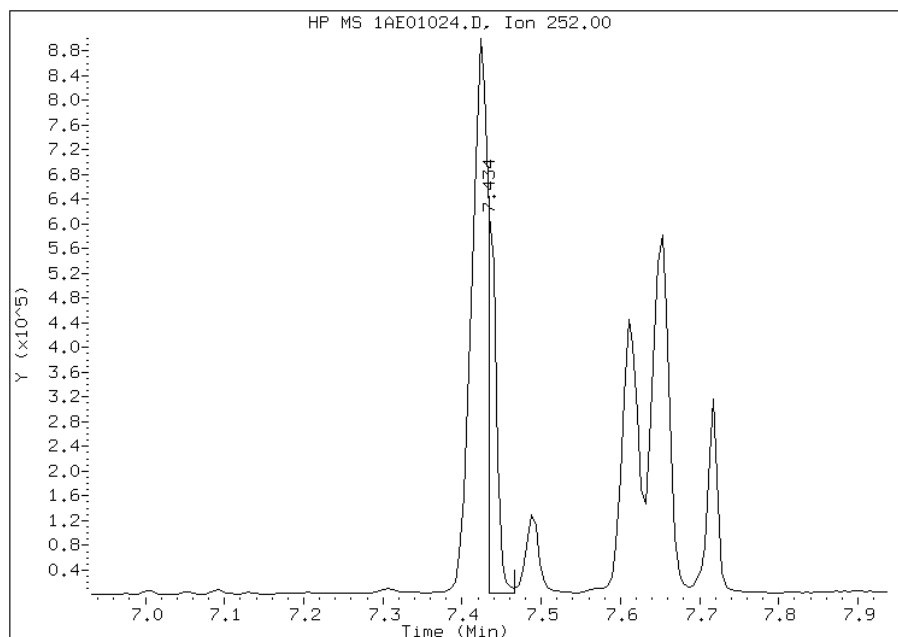
## Processing Integration Results

RT: 7.42  
Response: 1583874  
Amount: 29  
Conc: 2258



## Manual Integration Results

RT: 7.43  
Response: 461858  
Amount: 9  
Conc: 658



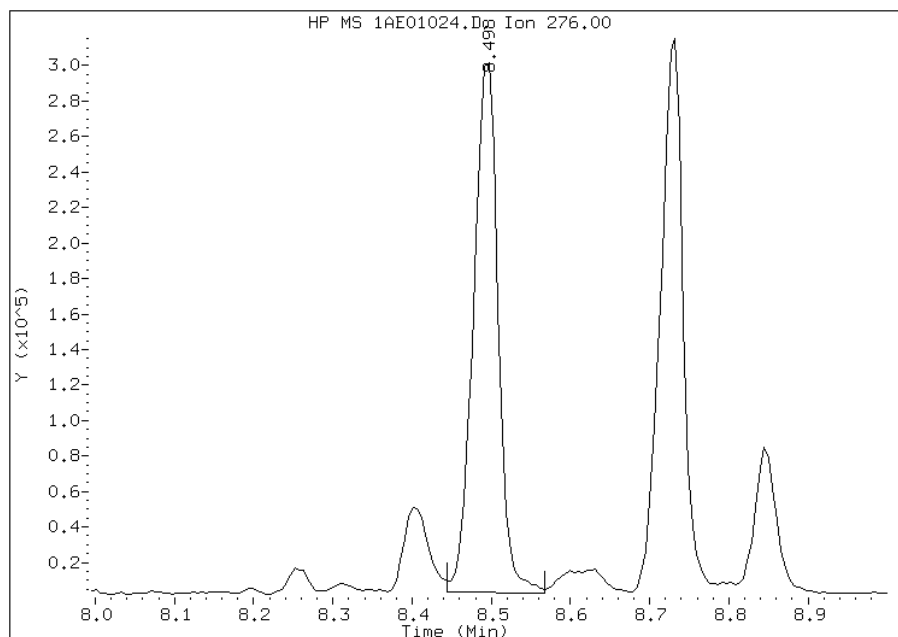
Manually Integrated By: cantins  
Modification Date: 05-May-2013 17:10  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE01024.D  
Inj. Date and Time: 01-MAY-2013 18:48  
Instrument ID: BSMA5973.i  
Client ID: CV1342A-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/05/2013

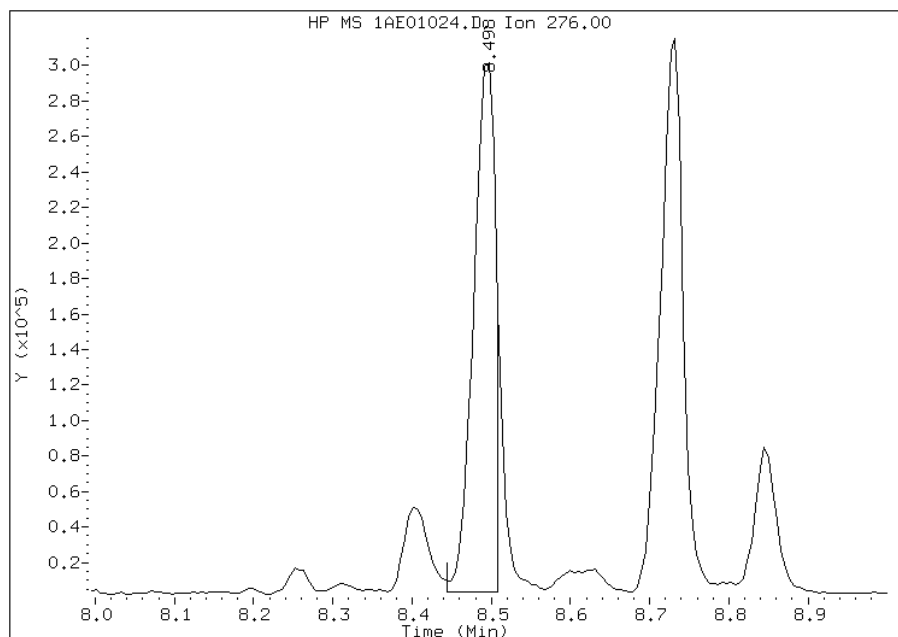
## Processing Integration Results

RT: 8.50  
Response: 640735  
Amount: 14  
Conc: 1118



## Manual Integration Results

RT: 8.50  
Response: 574581  
Amount: 13  
Conc: 1003



Manually Integrated By: cantins  
Modification Date: 05-May-2013 17:11  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: CV1342B-CS-SP Lab Sample ID: 680-89791-7  
 Matrix: Solid Lab File ID: 1AE01025.D  
 Analysis Method: 8270C LL Date Collected: 04/24/2013 11:27  
 Extract. Method: 3546 Date Extracted: 04/29/2013 14:27  
 Sample wt/vol: 15.09(g) Date Analyzed: 05/01/2013 19:03  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 18.9 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137001 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	98
208-96-8	Acenaphthylene	56	J	200	25
120-12-7	Anthracene	310		41	21
56-55-3	Benzo[a]anthracene	860		39	19
50-32-8	Benzo[a]pyrene	760		51	26
205-99-2	Benzo[b]fluoranthene	1200		60	30
191-24-2	Benzo[g,h,i]perylene	450		98	22
207-08-9	Benzo[k]fluoranthene	470		39	18
218-01-9	Chrysene	1000		44	22
53-70-3	Dibenz(a,h)anthracene	160		98	20
206-44-0	Fluoranthene	2100		98	20
86-73-7	Fluorene	100		98	20
193-39-5	Indeno[1,2,3-cd]pyrene	510		98	35
90-12-0	1-Methylnaphthalene	170	J	200	22
91-57-6	2-Methylnaphthalene	210		200	35
91-20-3	Naphthalene	170	J	200	22
85-01-8	Phenanthrene	1700		39	19
129-00-0	Pyrene	1300		98	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	50		30-130

TestAmerica Laboratories

Semivolatle 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01025.D  
 Lab Smp Id: 680-89791-A-7-A Client Smp ID: CV1342B-CS-SP  
 Inj Date : 01-MAY-2013 19:03  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-89791-a-7-a  
 Misc Info : 680-89791-A-7-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\a-bFASTPAHi-m.m  
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 22  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.090	Weight Extracted
M	18.925	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.572	2.563	(1.000)	1331622	40.0000	
* 6 Acenaphthene-d10	164		3.598	3.594	(1.000)	700926	40.0000	
* 10 Phenanthrene-d10	188		4.559	4.544	(1.000)	1117887	40.0000	
\$ 14 o-Terphenyl	230		4.853	4.844	(1.064)	23003	1.25805	411.3207
* 18 Chrysene-d12	240		6.594	6.574	(1.000)	1241026	40.0000	
* 23 Perylene-d12	264		7.690	7.659	(1.000)	1506014	40.0000	
2 Naphthalene	128		2.583	2.573	(1.004)	17415	0.52316	171.0489
3 2-Methylnaphthalene	141		2.983	2.979	(1.160)	12419	0.65073	212.7575
4 1-Methylnaphthalene	142		3.042	3.033	(1.183)	11269	0.53296	174.2513
5 Acenaphthylene	152		3.512	3.503	(0.976)	6986	0.17054	55.7581
9 Fluorene	166		3.929	3.925	(1.092)	8128	0.31447	102.8169
11 Phenanthrene	178		4.570	4.560	(1.002)	167138	5.16130	1687.4896
12 Anthracene	178		4.602	4.593	(1.009)	32110	0.95363	311.7903
13 Carbazole	167		4.741	4.726	(1.040)	31554	0.97142	317.6051

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	5.441	5.426	(1.193)	242615	6.48651	2120.7680
16 Pyrene	202	5.606	5.592	(0.850)	194383	4.10558	1342.3232
17 Benzo(a)anthracene	228	6.584	6.558	(0.998)	106596	2.63016	859.9340
19 Chrysene	228	6.605	6.590	(1.002)	128411	3.12308	1021.0943
20 Benzo(b)fluoranthene	252	7.406	7.381	(0.963)	165006	3.60892	1179.9397(M)
21 Benzo(k)fluoranthene	252	7.417	7.402	(0.965)	74946	1.42569	466.1288(QM)
22 Benzo(a)pyrene	252	7.636	7.605	(0.993)	105438	2.31810	757.9038
24 Indeno(1,2,3-cd)pyrene	276	8.464	8.423	(1.101)	66700	1.55308	507.7796(M)
25 Dibenzo(a,h)anthracene	278	8.486	8.450	(1.104)	19678	0.49244	161.0042
26 Benzo(g,h,i)perylene	276	8.689	8.642	(1.130)	66199	1.37726	450.2946

QC Flag Legend

Q - Qualifier signal failed the ratio test.  
M - Compound response manually integrated.

Data File: 1AE01025.D

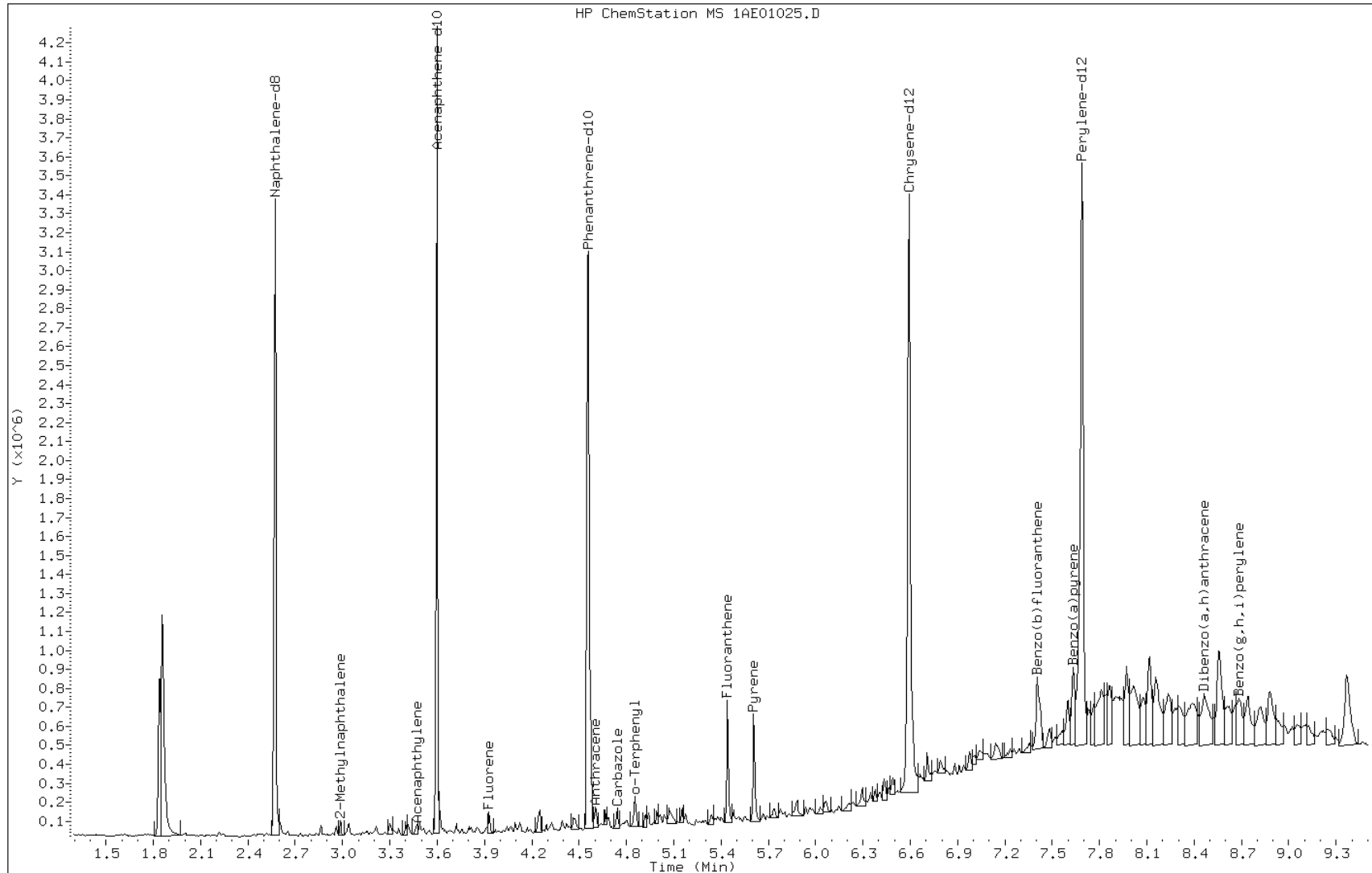
Date: 01-MAY-2013 19:03

Client ID: CV1342B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-7-a

Operator: SCC



Data File: 1AE01025.D

Date: 01-MAY-2013 19:03

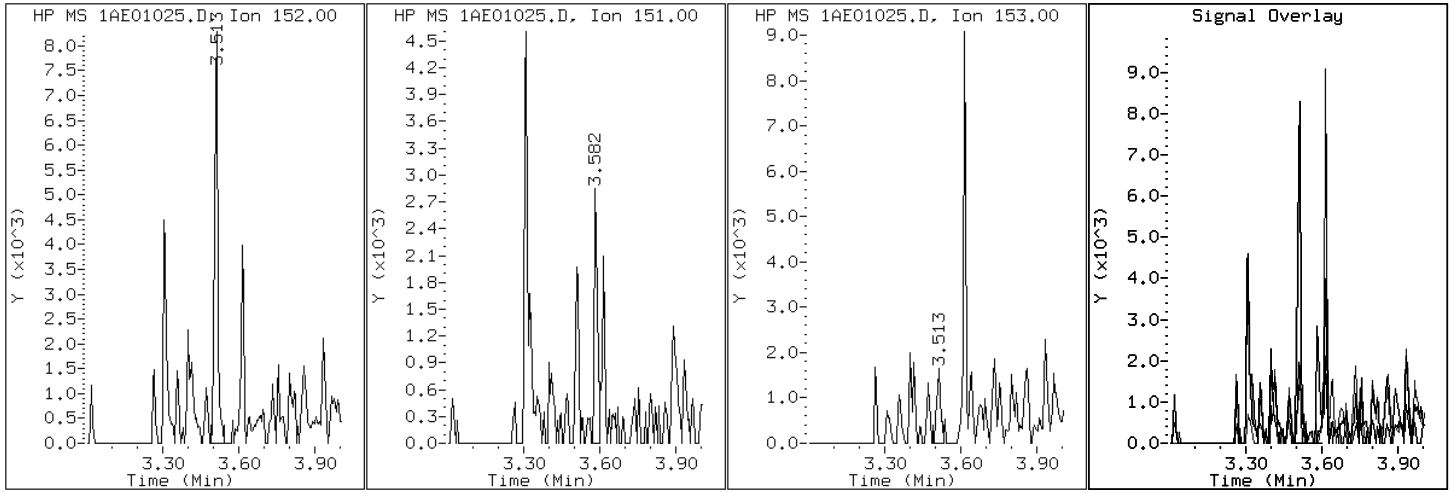
Client ID: CV1342B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-7-a

Operator: SCC

5 Acenaphthylene





Data File: 1AE01025.D

Date: 01-MAY-2013 19:03

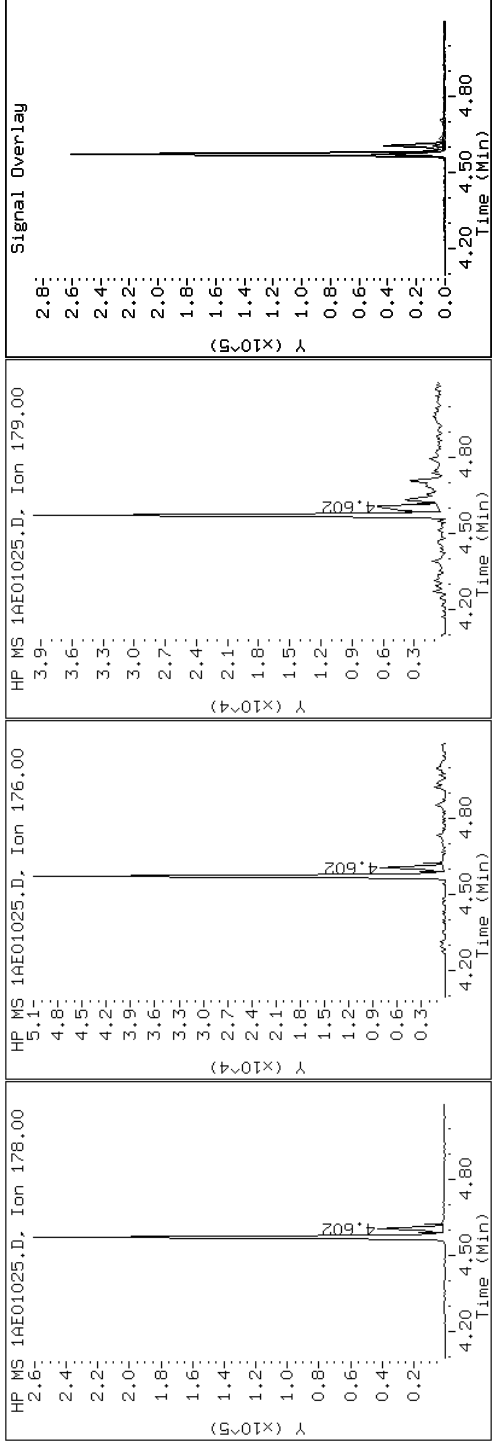
Client ID: CVI342B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-7-a

Operator: SCC

12 Anthracene



Data File: 1AE01025.D

Date: 01-MAY-2013 19:03

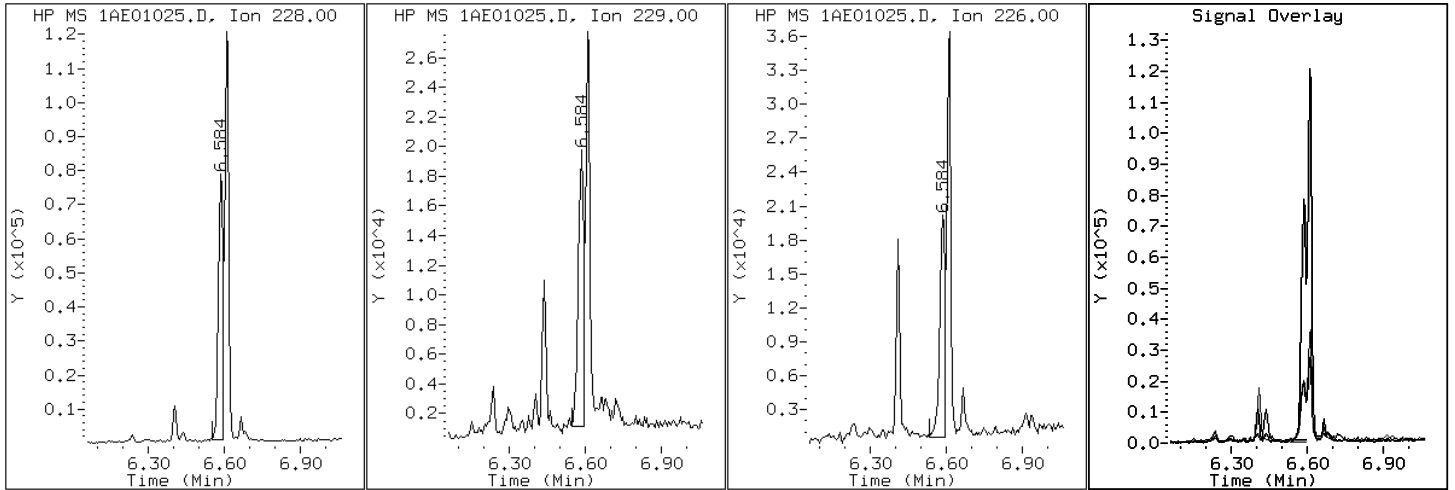
Client ID: CV1342B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-7-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AE01025.D

Date: 01-MAY-2013 19:03

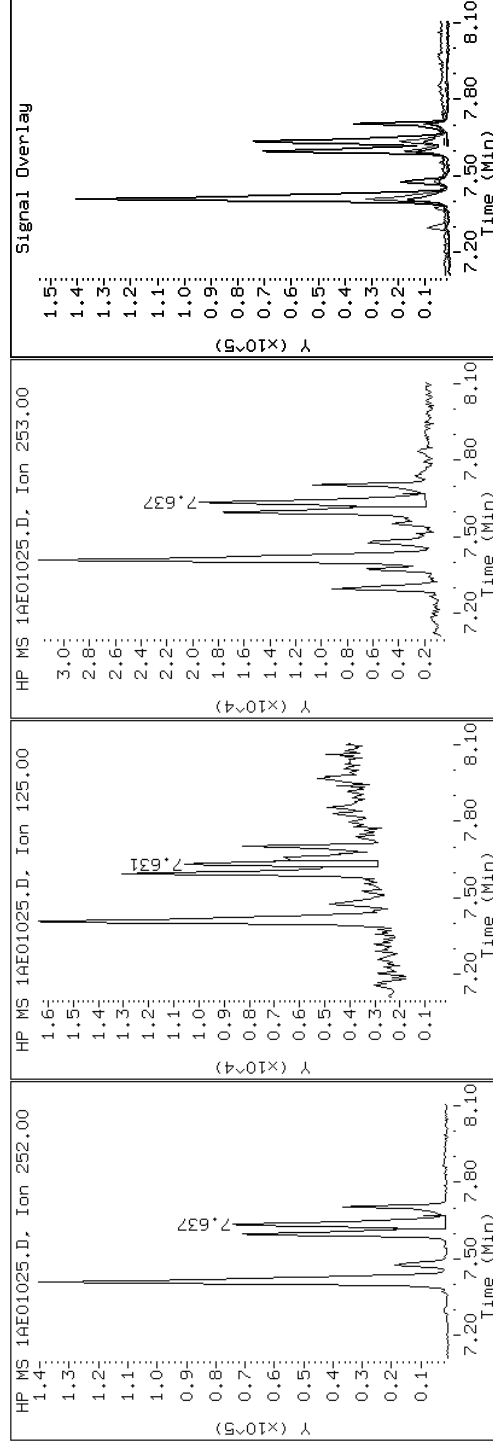
Client ID: CV1342B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-7-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AE01025.D

Date: 01-MAY-2013 19:03

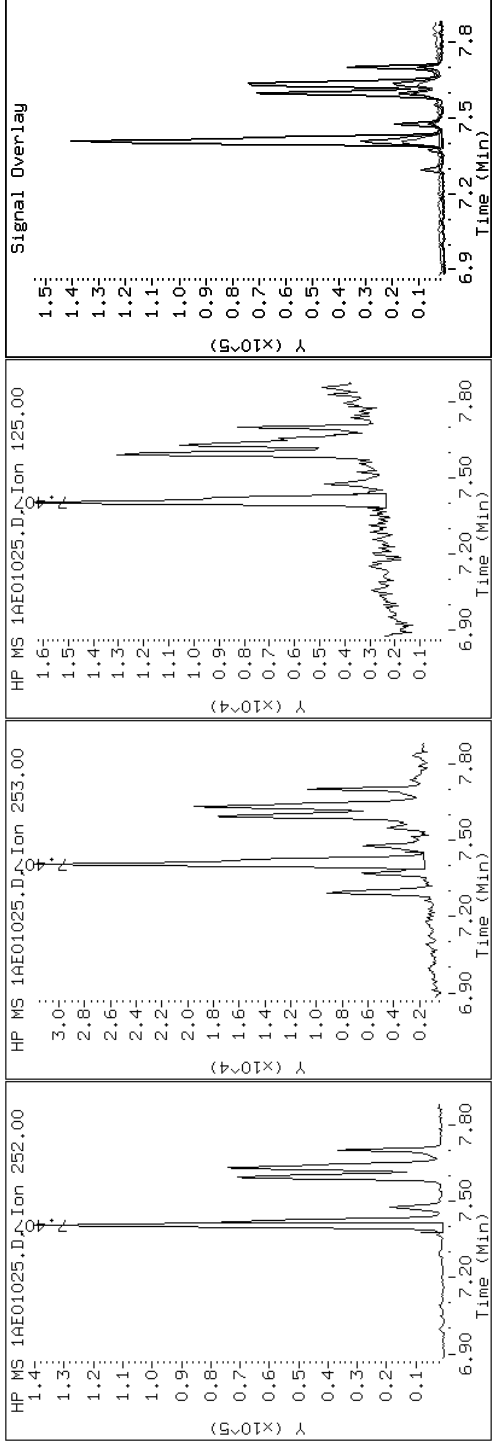
Client ID: CV1342B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-7-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AE01025.D

Date: 01-MAY-2013 19:03

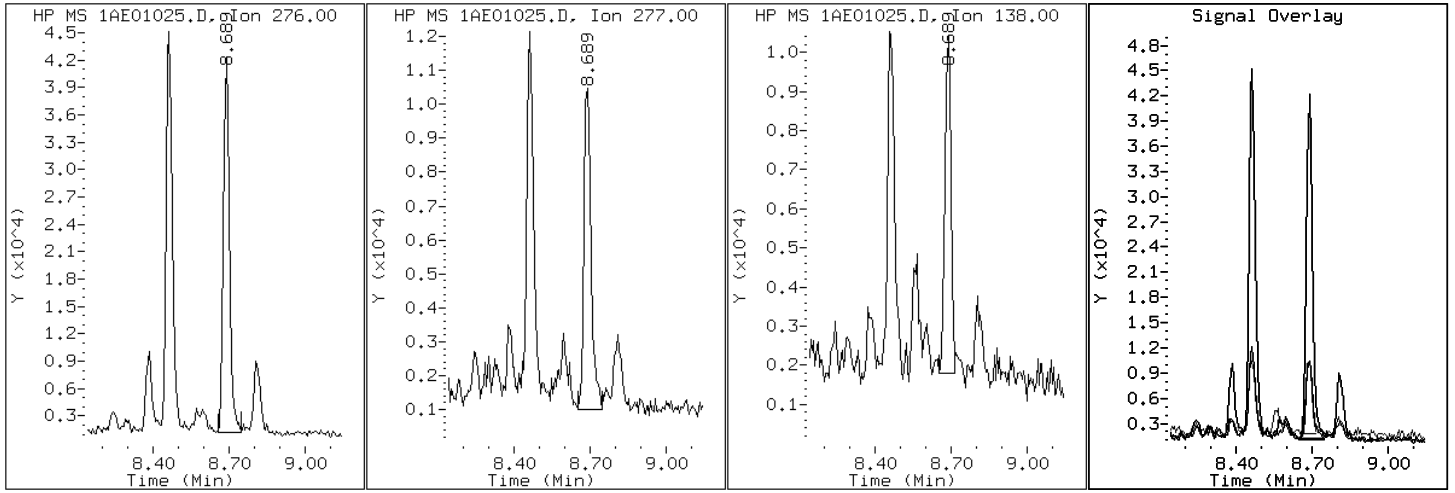
Client ID: CV1342B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-7-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AE01025.D

Date: 01-MAY-2013 19:03

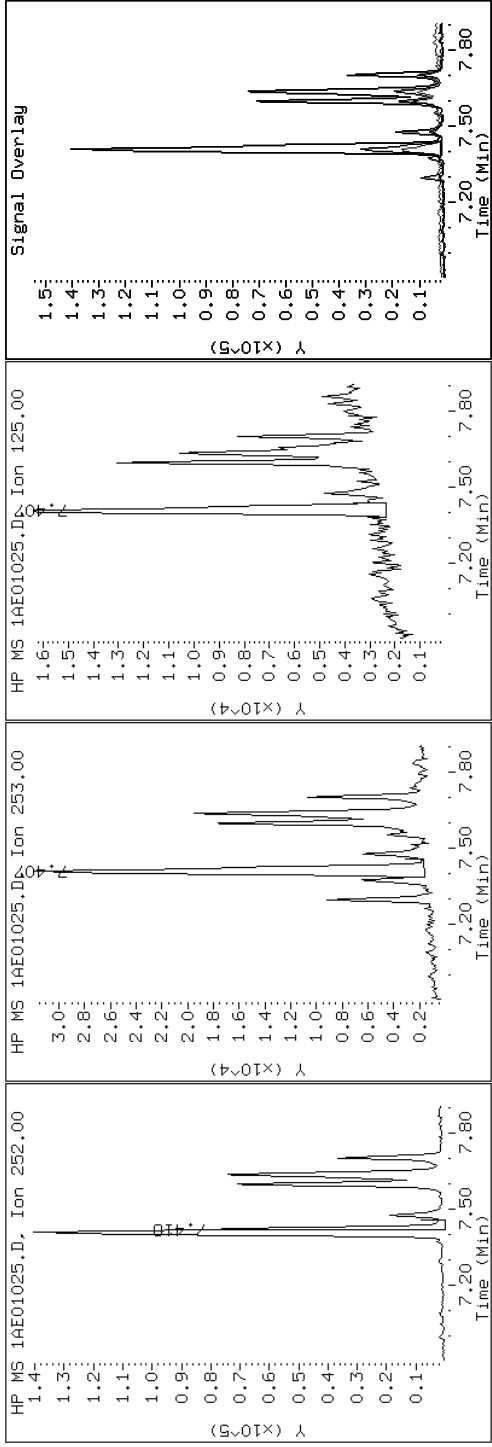
Client ID: CV1342B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-7-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AE01025.D

Date: 01-MAY-2013 19:03

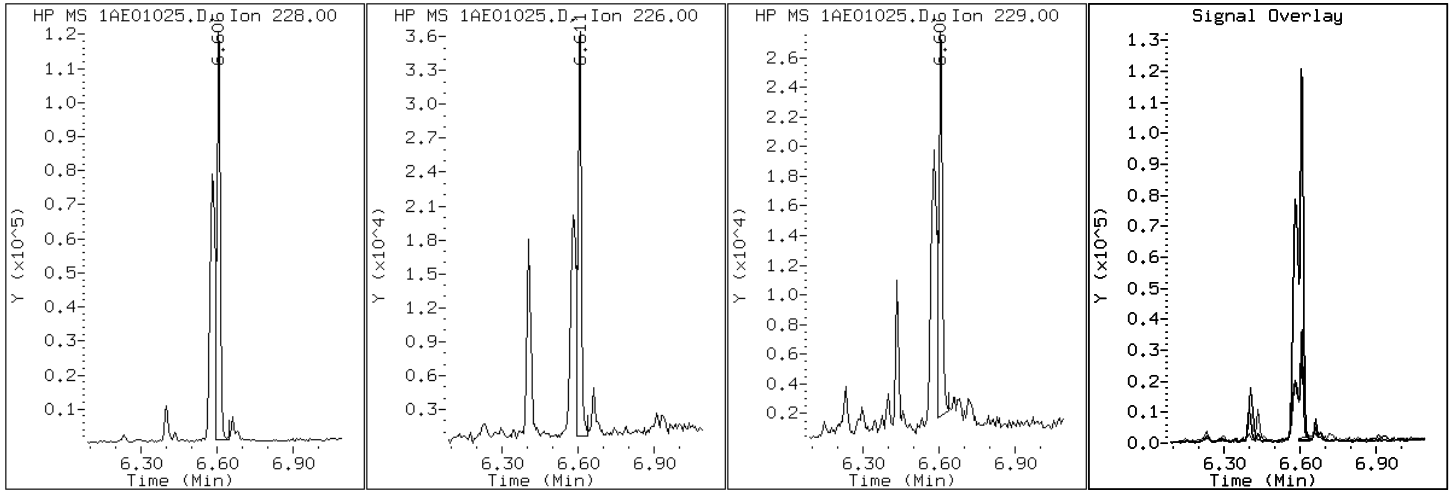
Client ID: CV1342B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-7-a

Operator: SCC

19 Chrysene



Data File: 1AE01025.D

Date: 01-MAY-2013 19:03

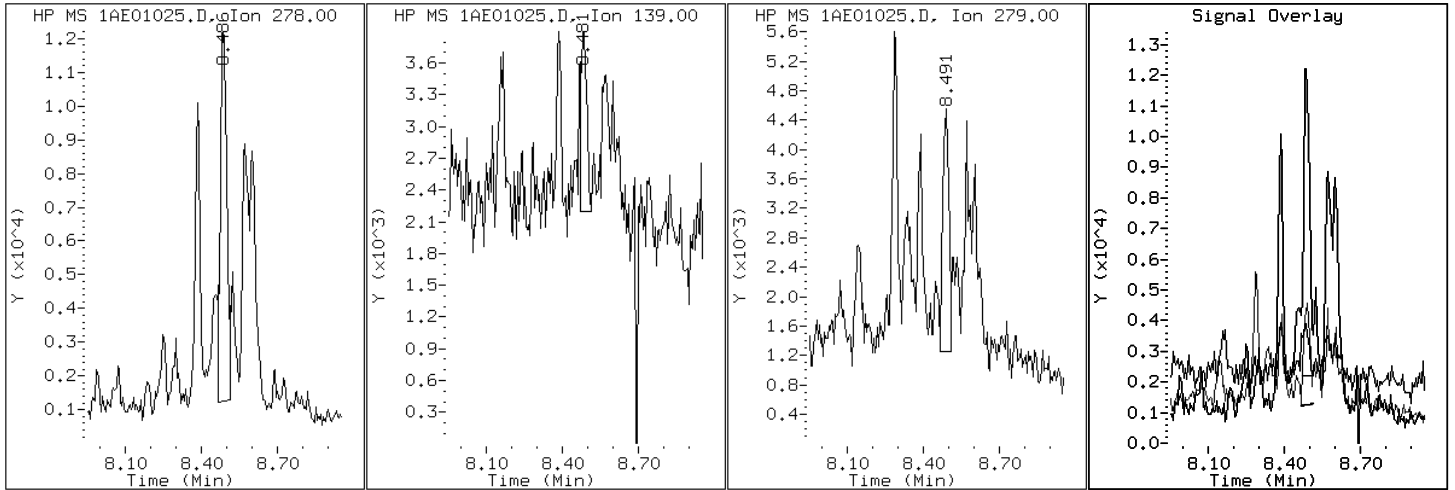
Client ID: CV1342B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-7-a

Operator: SCC

25 Dibenzo(a,h)anthracene





Data File: 1AE01025.D

Date: 01-MAY-2013 19:03

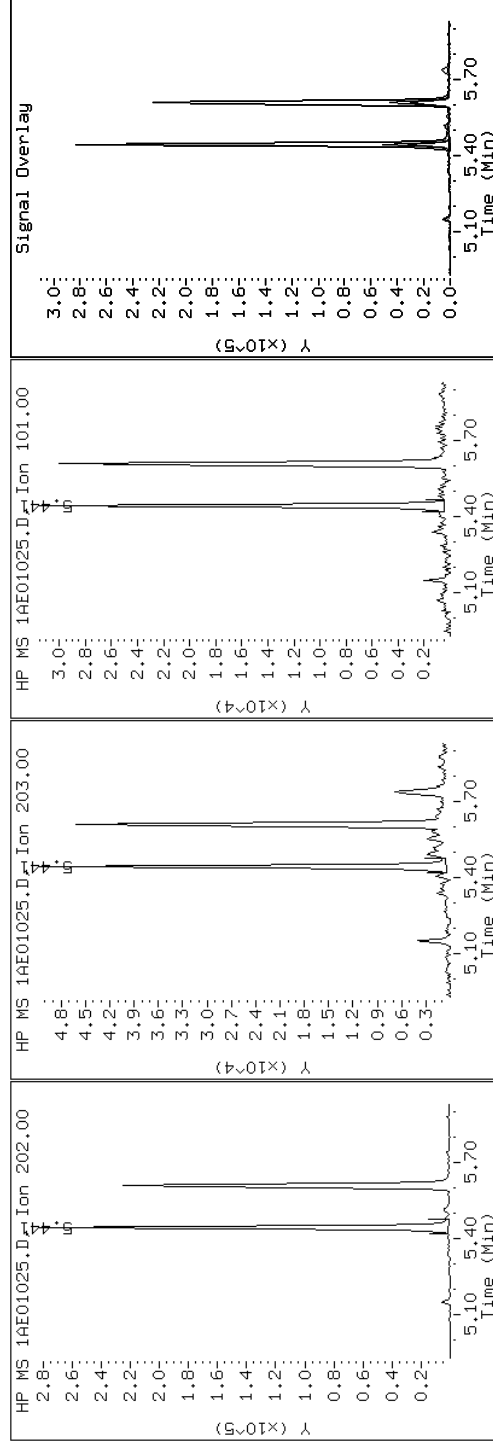
Client ID: CV1342B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-7-a

Operator: SCC

15 Fluoranthene



Data File: 1AE01025.D

Date: 01-MAY-2013 19:03

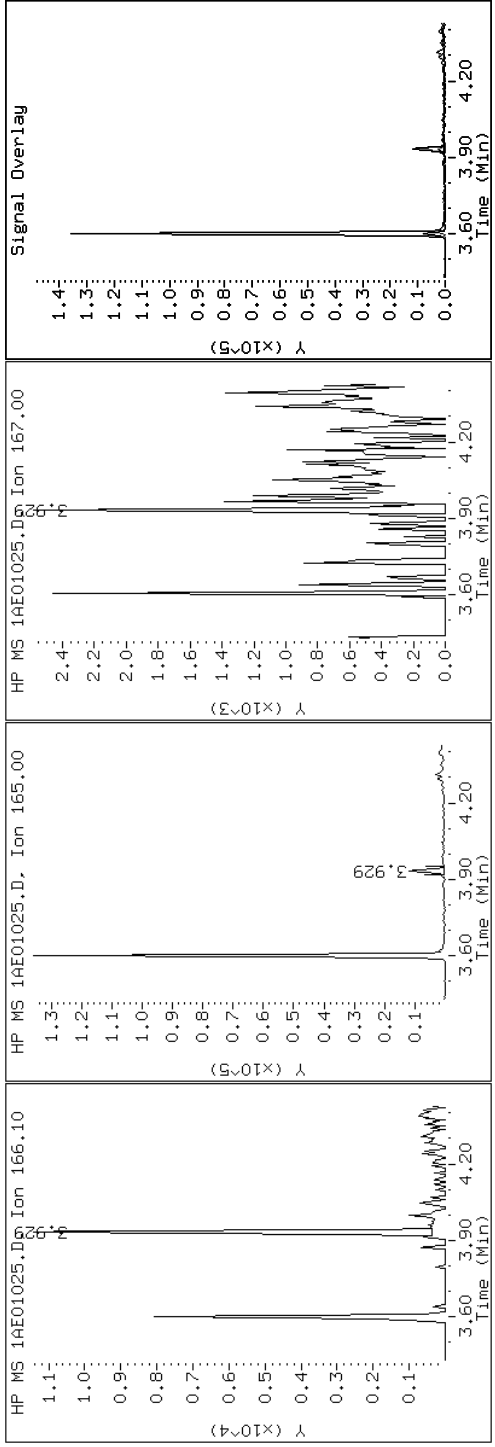
Client ID: CV1342B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-7-a

Operator: SCC

9 Fluorene



Data File: 1AE01025.D

Date: 01-MAY-2013 19:03

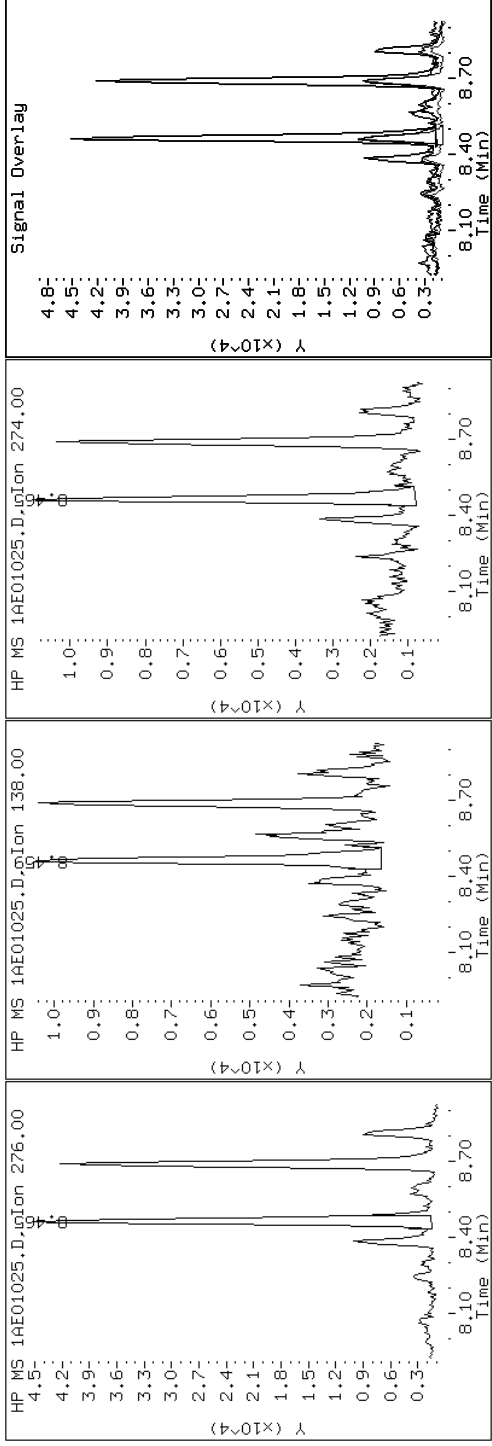
Client ID: CV1342B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-7-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



Data File: 1AE01025.D

Date: 01-MAY-2013 19:03

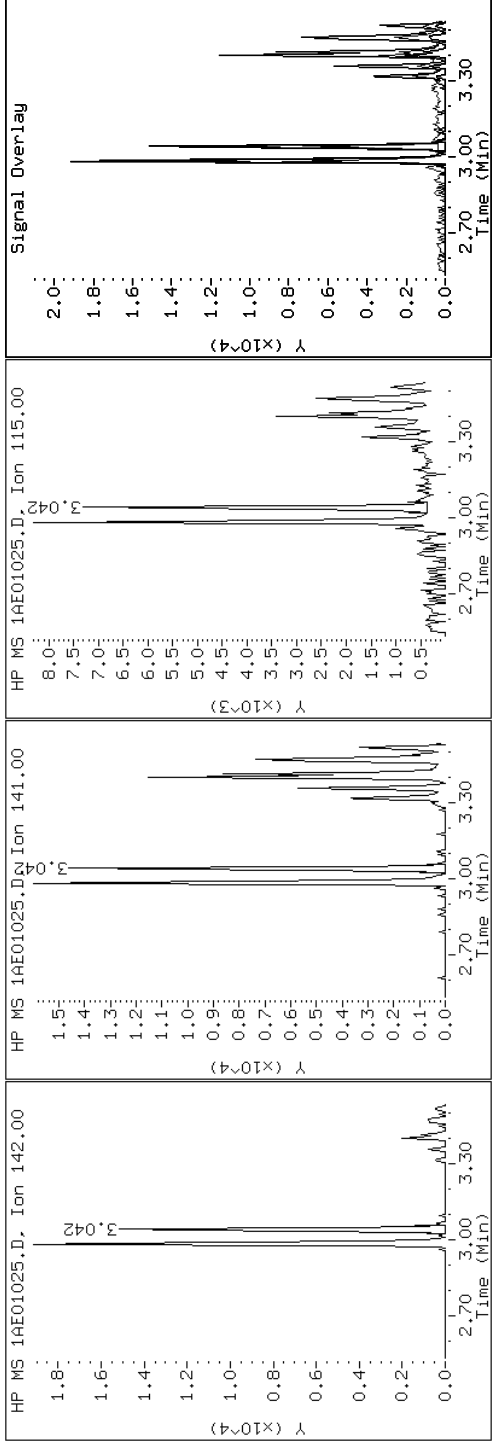
Client ID: CV1342B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-7-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE01025.D

Date: 01-MAY-2013 19:03

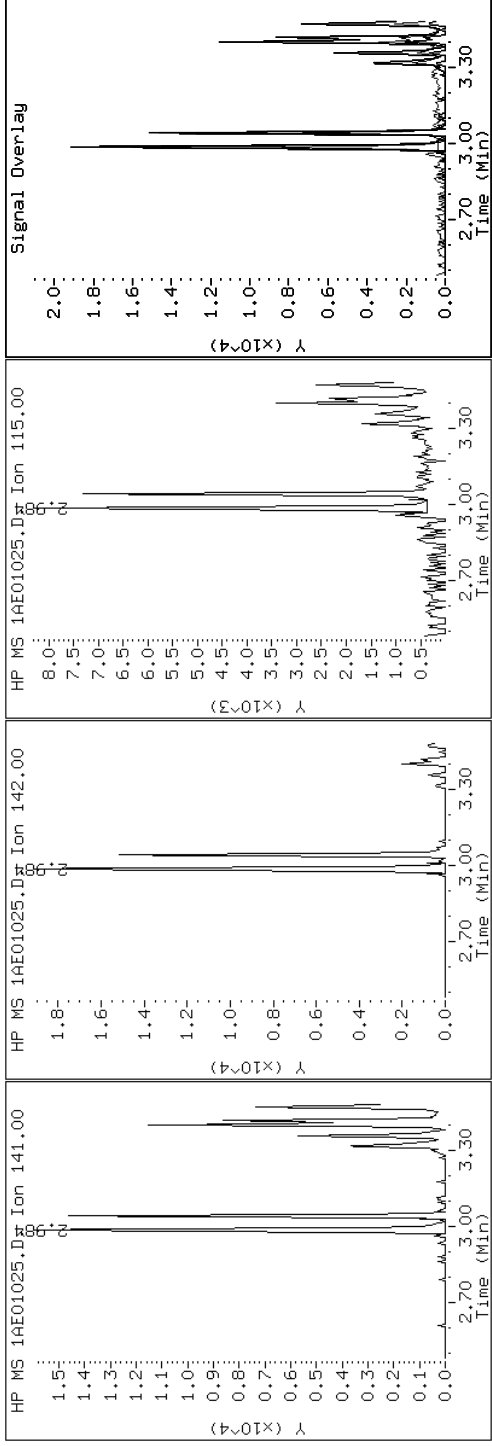
Client ID: CV1342B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-7-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1AE01025.D

Date: 01-MAY-2013 19:03

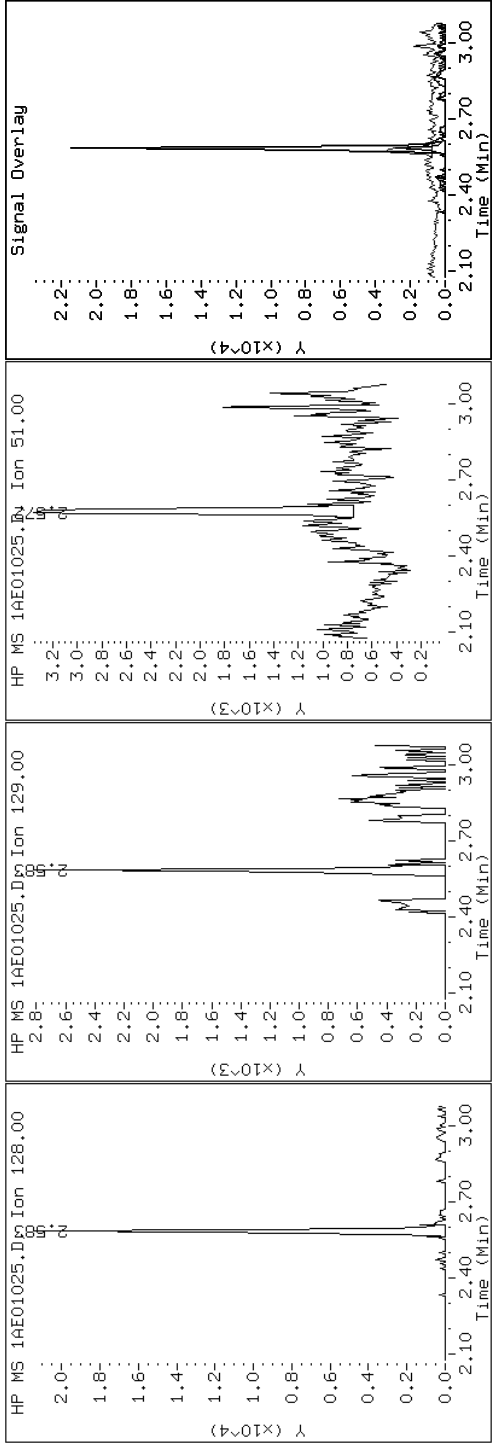
Client ID: CV1342B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-7-a

Operator: SCC

2 Naphthalene



Data File: 1AE01025.D

Date: 01-MAY-2013 19:03

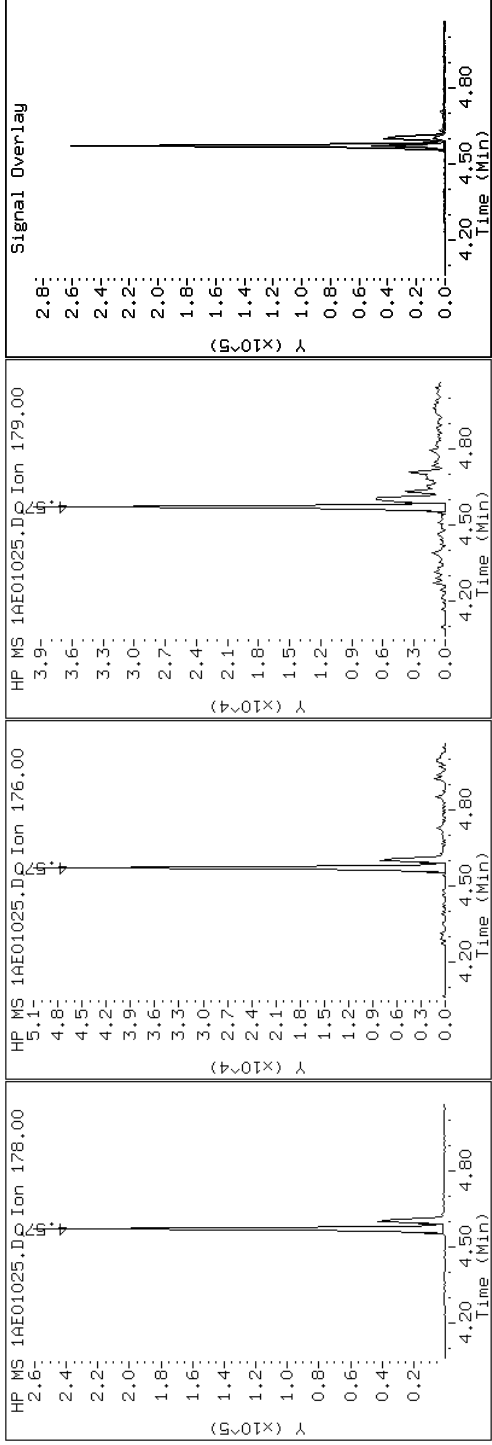
Client ID: CV1342B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-7-a

Operator: SCC

11 Phenanthrene



Data File: 1AE01025.D

Date: 01-MAY-2013 19:03

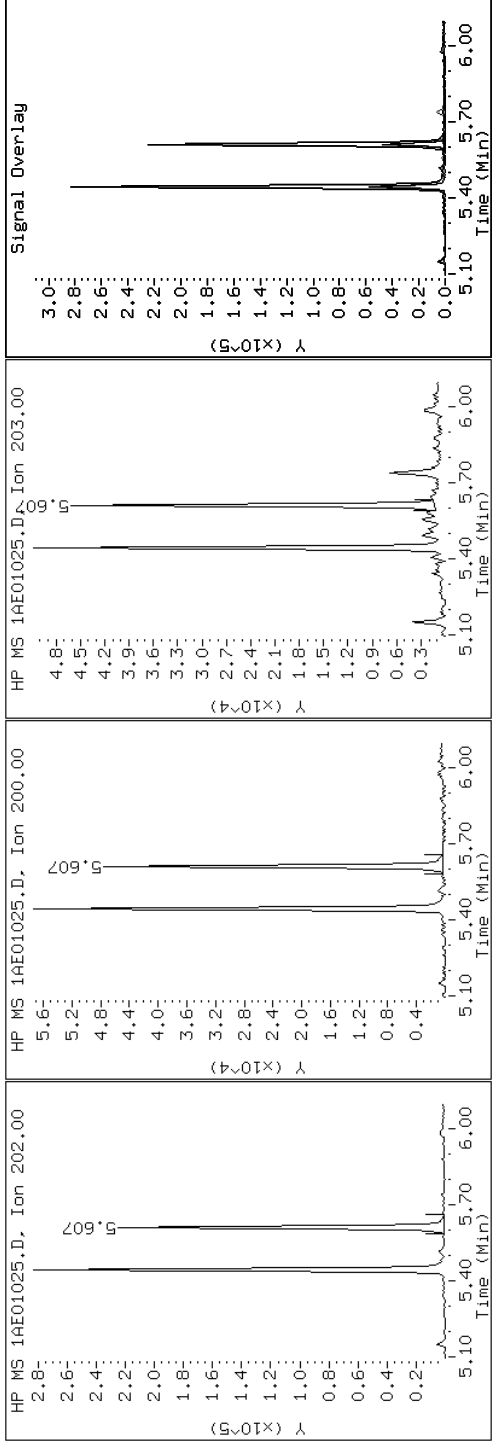
Client ID: CV1342B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-7-a

Operator: SCC

16 Pyrene



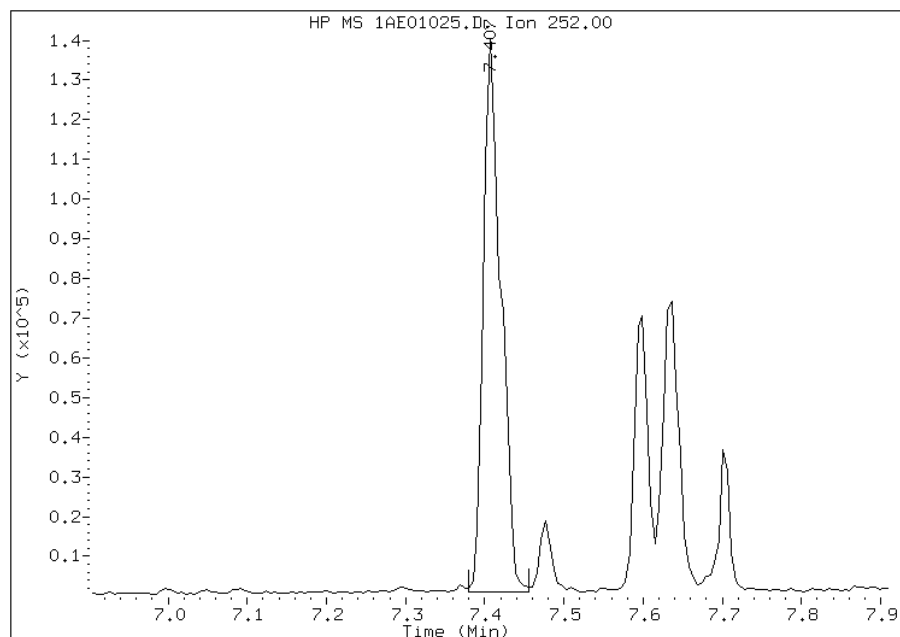


# Manual Integration Report

Data File: 1AE01025.D  
Inj. Date and Time: 01-MAY-2013 19:03  
Instrument ID: BSMA5973.i  
Client ID: CV1342B-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 05/05/2013

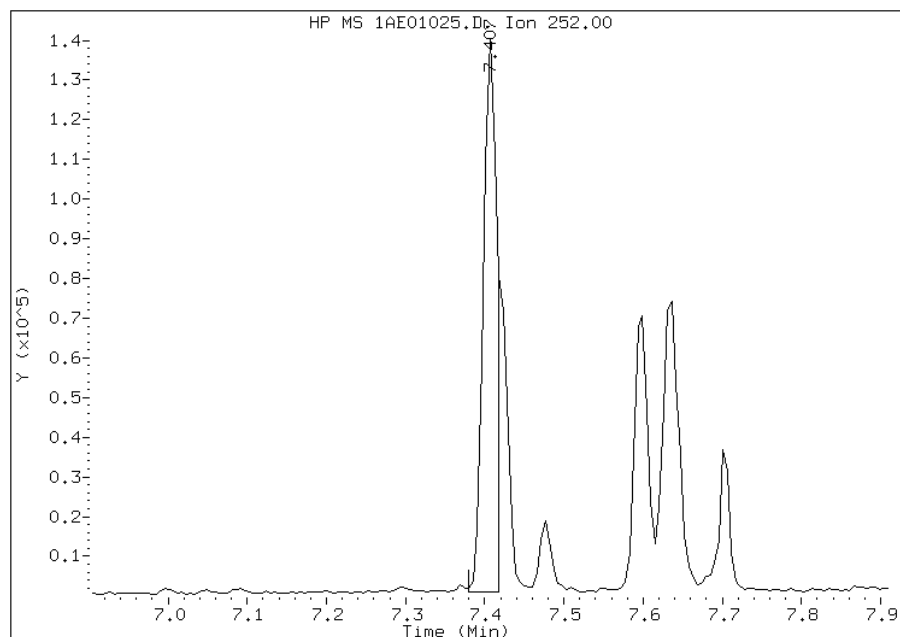
## Processing Integration Results

RT: 7.41  
Response: 212037  
Amount: 5  
Conc: 1516



## Manual Integration Results

RT: 7.41  
Response: 165006  
Amount: 4  
Conc: 1180



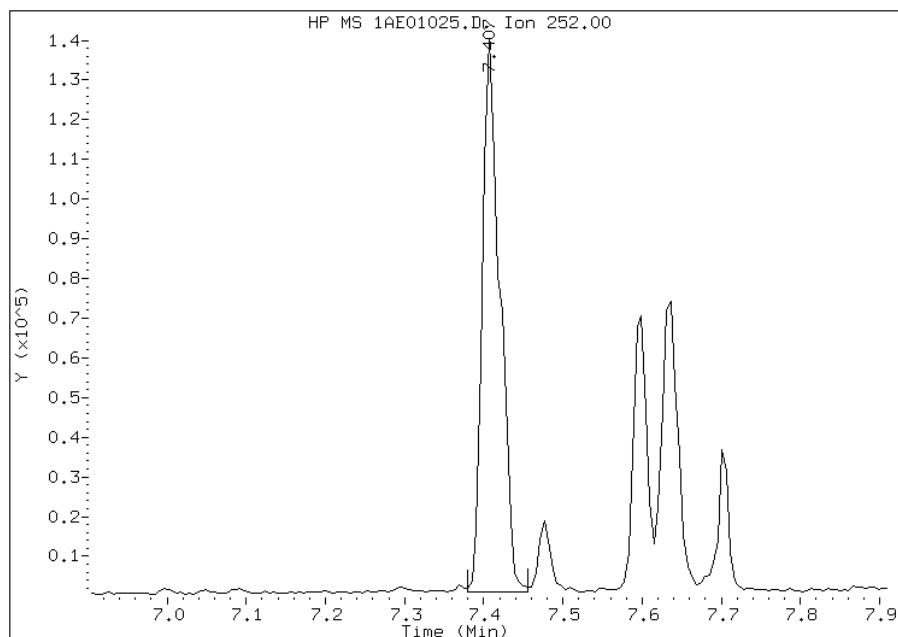
Manually Integrated By: cantins  
Modification Date: 05-May-2013 17:11  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AE01025.D  
Inj. Date and Time: 01-MAY-2013 19:03  
Instrument ID: BSMA5973.i  
Client ID: CV1342B-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 05/05/2013

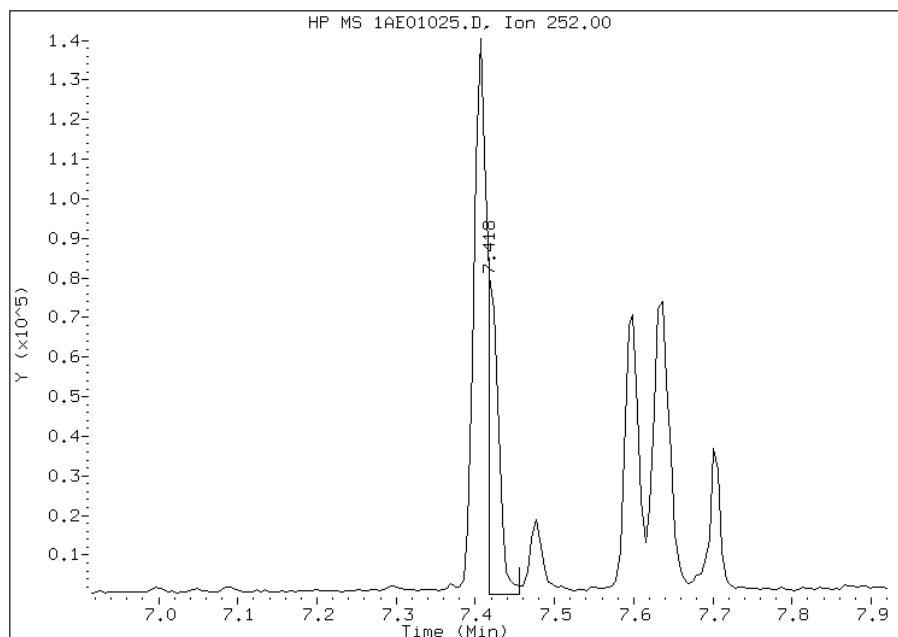
## Processing Integration Results

RT: 7.41  
Response: 212037  
Amount: 4  
Conc: 1319



## Manual Integration Results

RT: 7.42  
Response: 74946  
Amount: 1  
Conc: 466



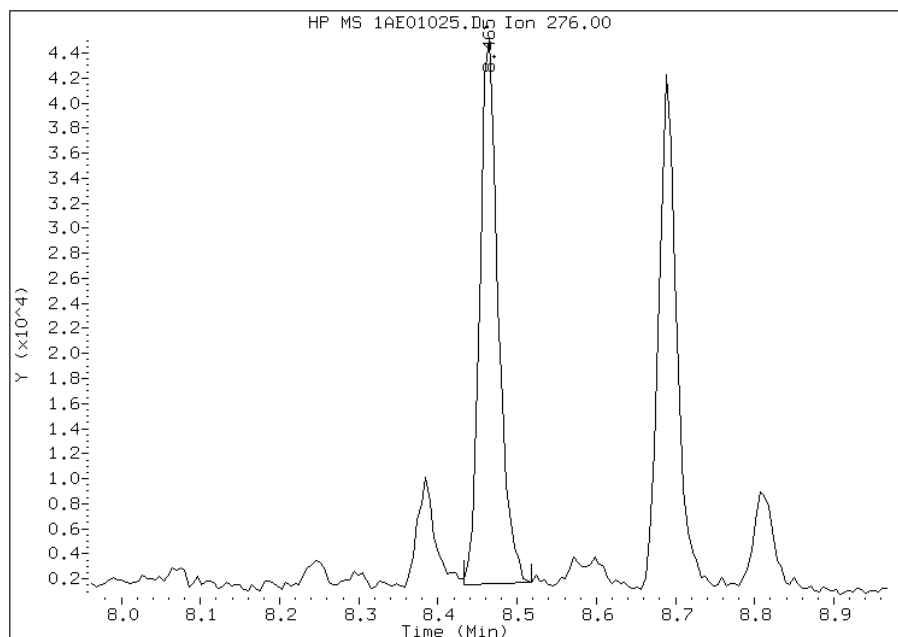
Manually Integrated By: cantins  
Modification Date: 05-May-2013 17:12  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE01025.D  
Inj. Date and Time: 01-MAY-2013 19:03  
Instrument ID: BSMA5973.i  
Client ID: CV1342B-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/05/2013

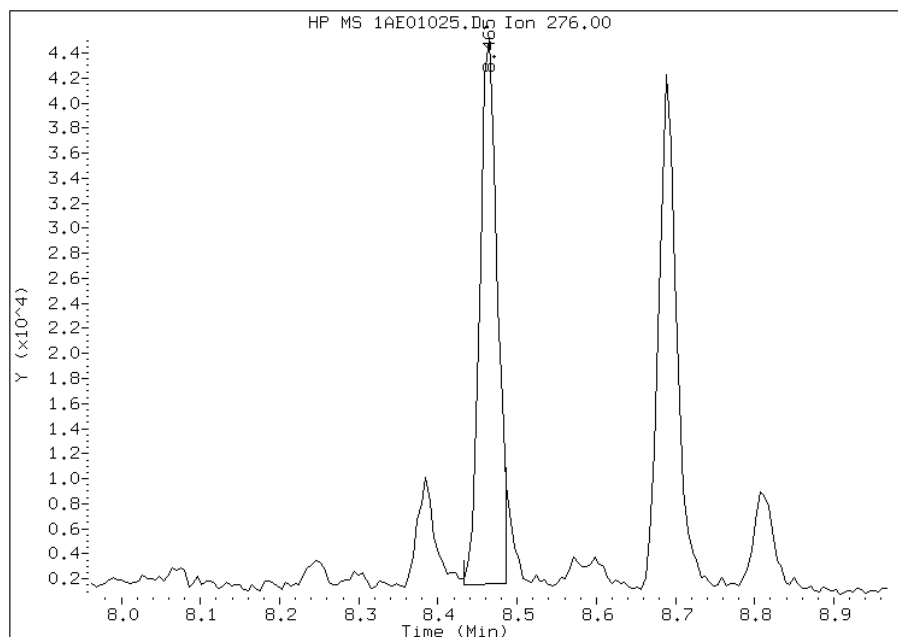
## Processing Integration Results

RT: 8.46  
Response: 69877  
Amount: 2  
Conc: 532



## Manual Integration Results

RT: 8.46  
Response: 66700  
Amount: 2  
Conc: 508



Manually Integrated By: cantins  
Modification Date: 05-May-2013 17:12  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: CV1116A-CS Lab Sample ID: 680-89791-8  
 Matrix: Solid Lab File ID: 1AE01026.D  
 Analysis Method: 8270C LL Date Collected: 04/24/2013 10:25  
 Extract. Method: 3546 Date Extracted: 04/29/2013 14:27  
 Sample wt/vol: 15.02(g) Date Analyzed: 05/01/2013 19:18  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 20.4 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137001 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	100
208-96-8	Acenaphthylene	30	J	200	25
120-12-7	Anthracene	40	J	42	21
56-55-3	Benzo[a]anthracene	130		40	20
50-32-8	Benzo[a]pyrene	88		52	26
205-99-2	Benzo[b]fluoranthene	170		61	31
191-24-2	Benzo[g,h,i]perylene	59	J	100	22
207-08-9	Benzo[k]fluoranthene	39	J	40	18
218-01-9	Chrysene	140		45	23
53-70-3	Dibenz(a,h)anthracene	100	U	100	21
206-44-0	Fluoranthene	150		100	20
86-73-7	Fluorene	100	U	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	67	J	100	36
90-12-0	1-Methylnaphthalene	68	J	200	22
91-57-6	2-Methylnaphthalene	120	J	200	36
91-20-3	Naphthalene	86	J	200	22
85-01-8	Phenanthrene	150		40	20
129-00-0	Pyrene	110		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	50		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01026.D  
 Lab Smp Id: 680-89791-A-8-A Client Smp ID: CV1116A-CS  
 Inj Date : 01-MAY-2013 19:18  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-89791-a-8-a  
 Misc Info : 680-89791-A-8-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\a-bFASTPAHi-m.m  
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 23  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	Weight Extracted
M	20.354	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.573	2.563	(1.000)	1404425	40.0000	
* 6 Acenaphthene-d10	164		3.599	3.594	(1.000)	737678	40.0000	
* 10 Phenanthrene-d10	188		4.555	4.544	(1.000)	1169155	40.0000	
\$ 14 o-Terphenyl	230		4.854	4.844	(1.066)	23900	1.24979	417.8914
* 18 Chrysene-d12	240		6.596	6.574	(1.000)	1317791	40.0000	
* 23 Perylene-d12	264		7.691	7.659	(1.000)	1574668	40.0000	
2 Naphthalene	128		2.584	2.573	(1.004)	8988	0.25601	85.6024
3 2-Methylnaphthalene	141		2.985	2.979	(1.160)	6981	0.34683	115.9690
4 1-Methylnaphthalene	142		3.038	3.033	(1.181)	4550	0.20403	68.2226
5 Acenaphthylene	152		3.508	3.503	(0.975)	3882	0.09004	30.1081(M)
11 Phenanthrene	178		4.571	4.560	(1.004)	14738	0.43516	145.5036
12 Anthracene	178		4.603	4.593	(1.011)	4262	0.12103	40.4673(Q)
15 Fluoranthene	202		5.442	5.426	(1.195)	18015	0.46053	153.9852
16 Pyrene	202		5.607	5.592	(0.850)	17042	0.33898	113.3436

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Benzo(a)anthracene	228	6.590	6.558 (0.999)		16367	0.38032	127.1660
19 Chrysene	228	6.606	6.590 (1.002)		18859	0.43195	144.4309
20 Benzo(b)fluoranthene	252	7.402	7.381 (0.962)		23784	0.49751	166.3522(M)
21 Benzo(k)fluoranthene	252	7.418	7.402 (0.965)		6483	0.11795	39.4382(QM)
22 Benzo(a)pyrene	252	7.632	7.605 (0.992)		12573	0.26437	88.3974
24 Indeno(1,2,3-cd)pyrene	276	8.460	8.423 (1.100)		8998	0.20038	67.0006(M)
26 Benzo(g,h,i)perylene	276	8.690	8.642 (1.130)		8916	0.17741	59.3197

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: 1AE01026.D

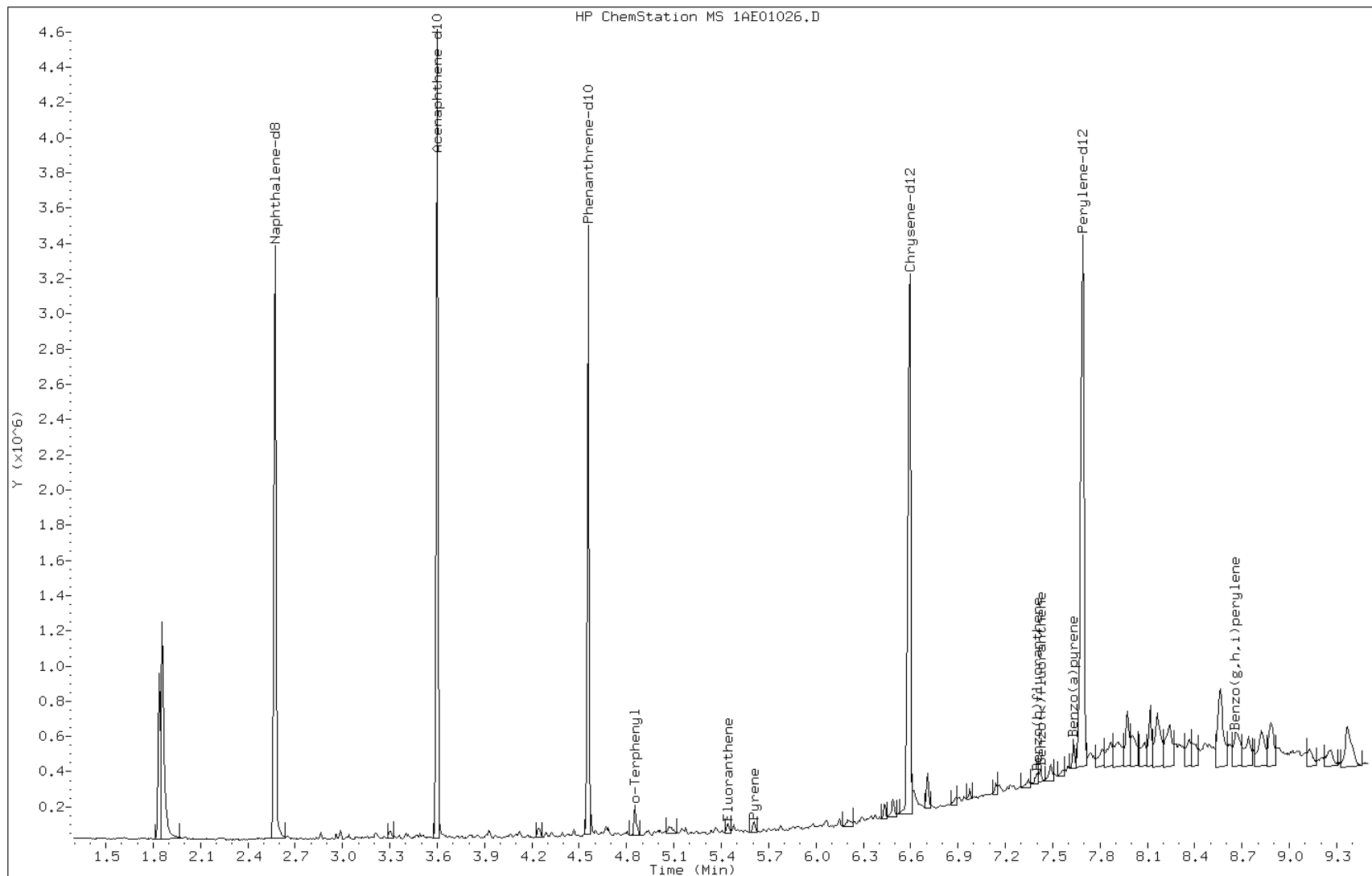
Date: 01-MAY-2013 19:18

Client ID: CV1116A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-8-a

Operator: SCC



Data File: 1AE01026.D

Date: 01-MAY-2013 19:18

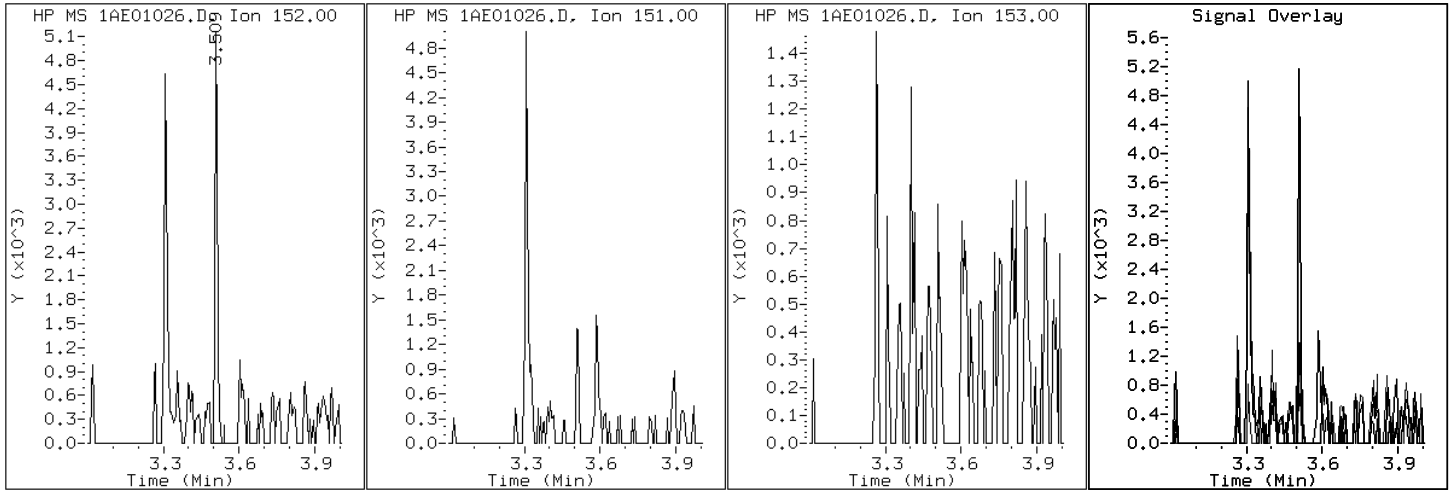
Client ID: CV1116A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-8-a

Operator: SCC

5 Acenaphthylene





Data File: 1AE01026.D

Date: 01-MAY-2013 19:18

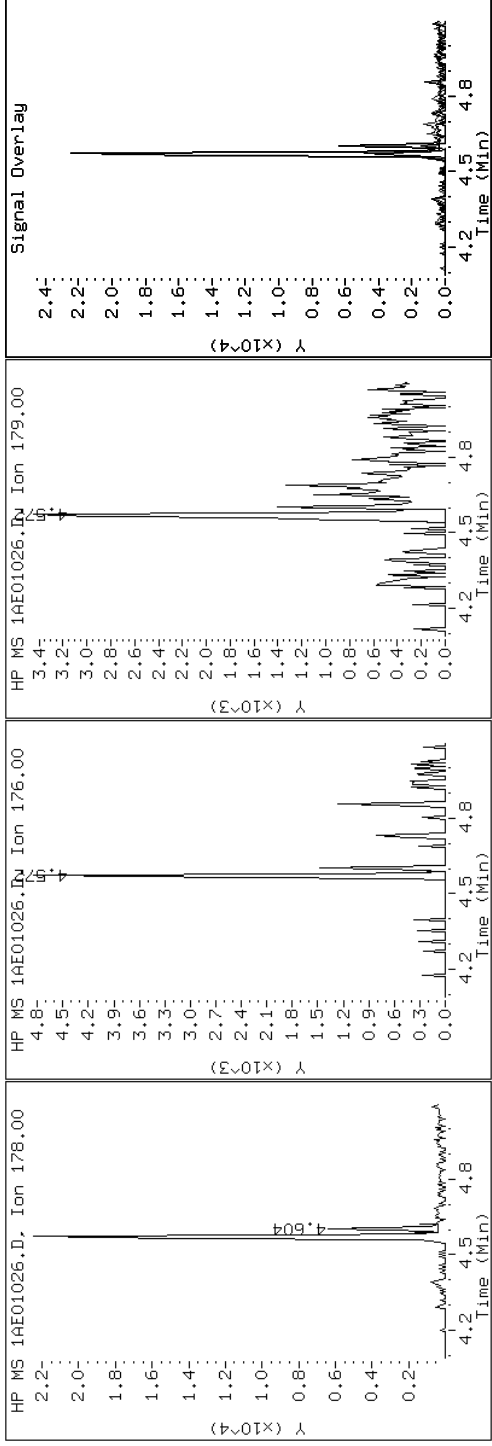
Client ID: CV1116A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-8-a

Operator: SCC

12 Anthracene



Data File: 1AE01026.D

Date: 01-MAY-2013 19:18

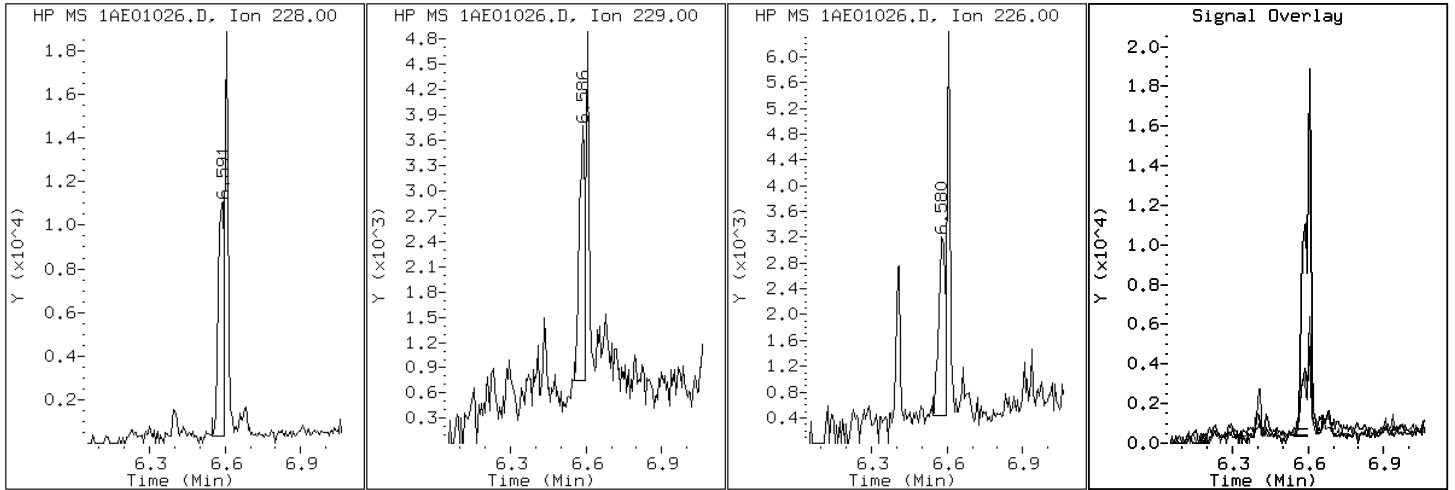
Client ID: CV1116A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-8-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AE01026.D

Date: 01-MAY-2013 19:18

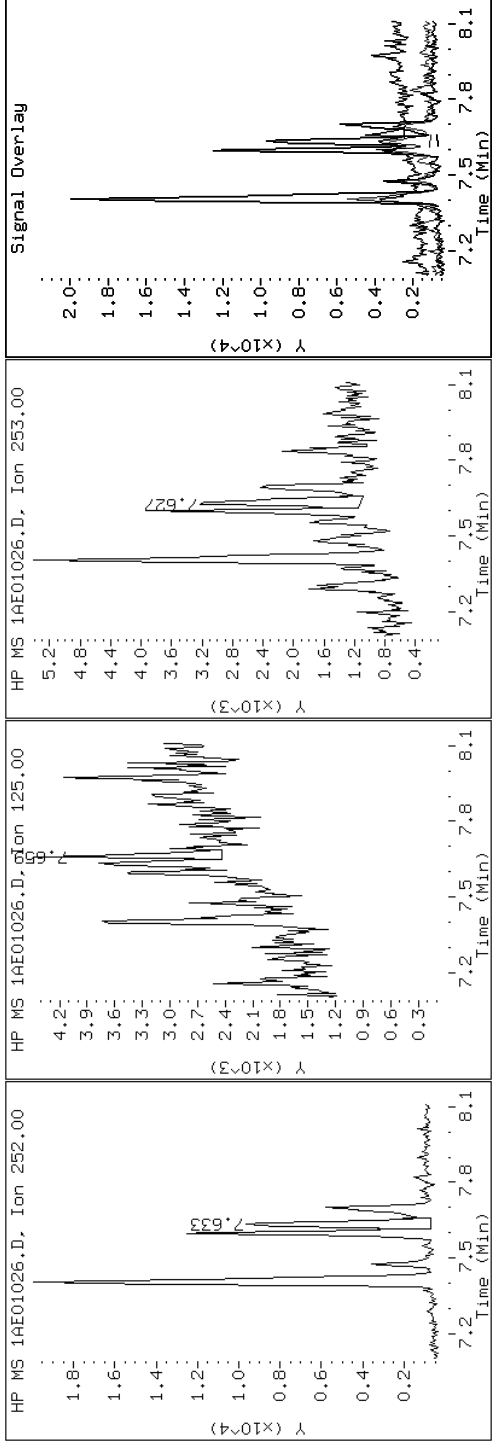
Client ID: CV1116A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-8-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AE01026.D

Date: 01-MAY-2013 19:18

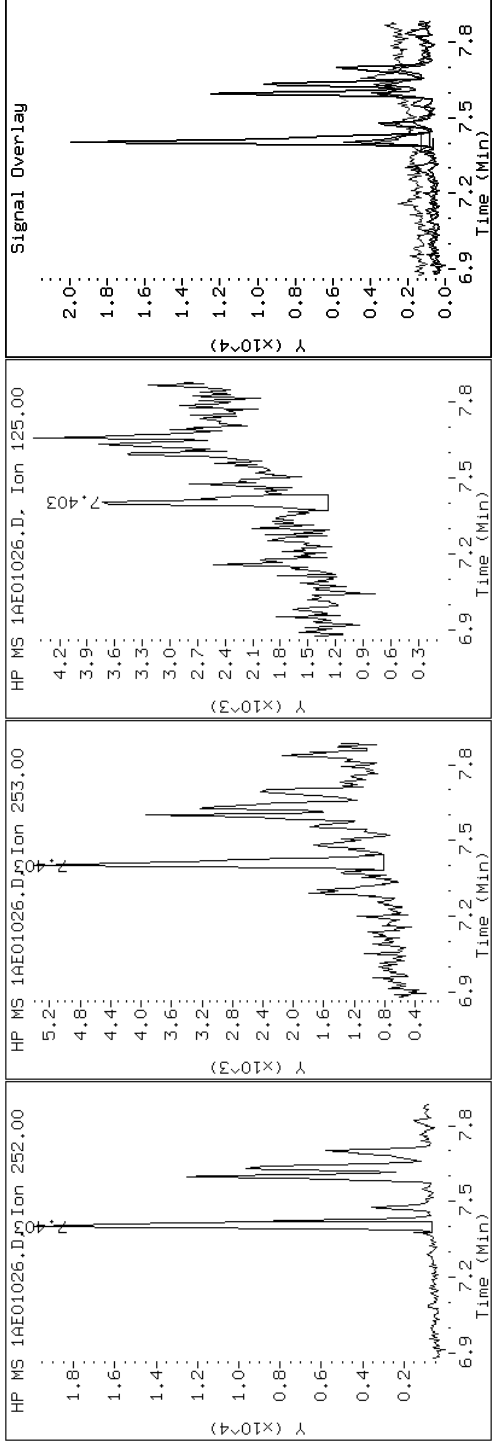
Client ID: CV1116A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-8-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AE01026.D

Date: 01-MAY-2013 19:18

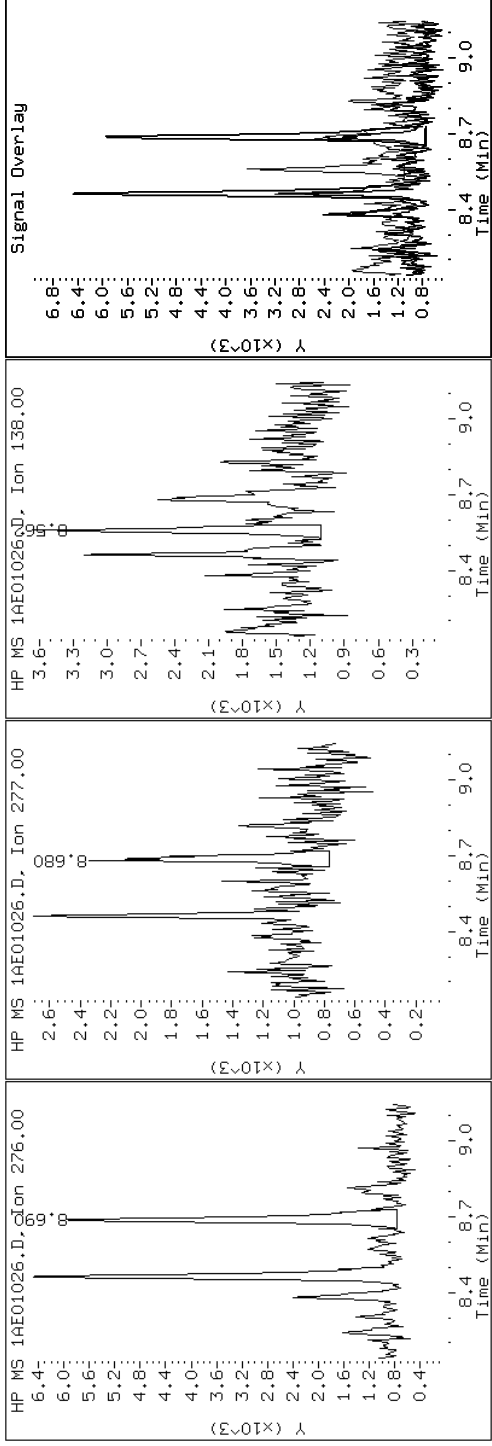
Client ID: CV1116A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-8-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AE01026.D

Date: 01-MAY-2013 19:18

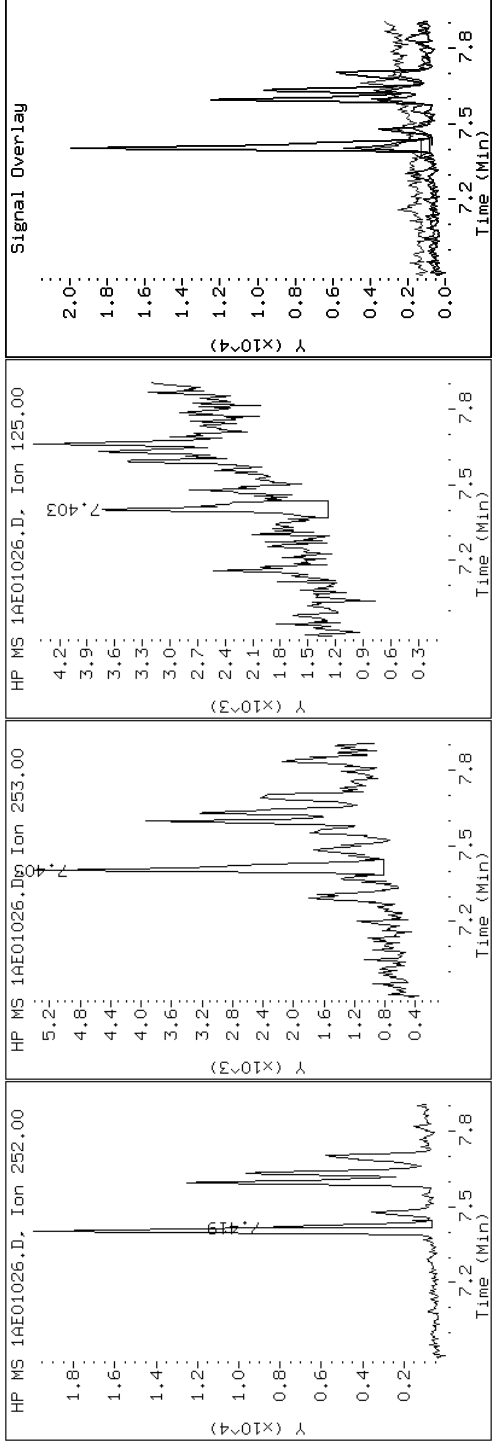
Client ID: CV1116A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-8-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AE01026.D

Date: 01-MAY-2013 19:18

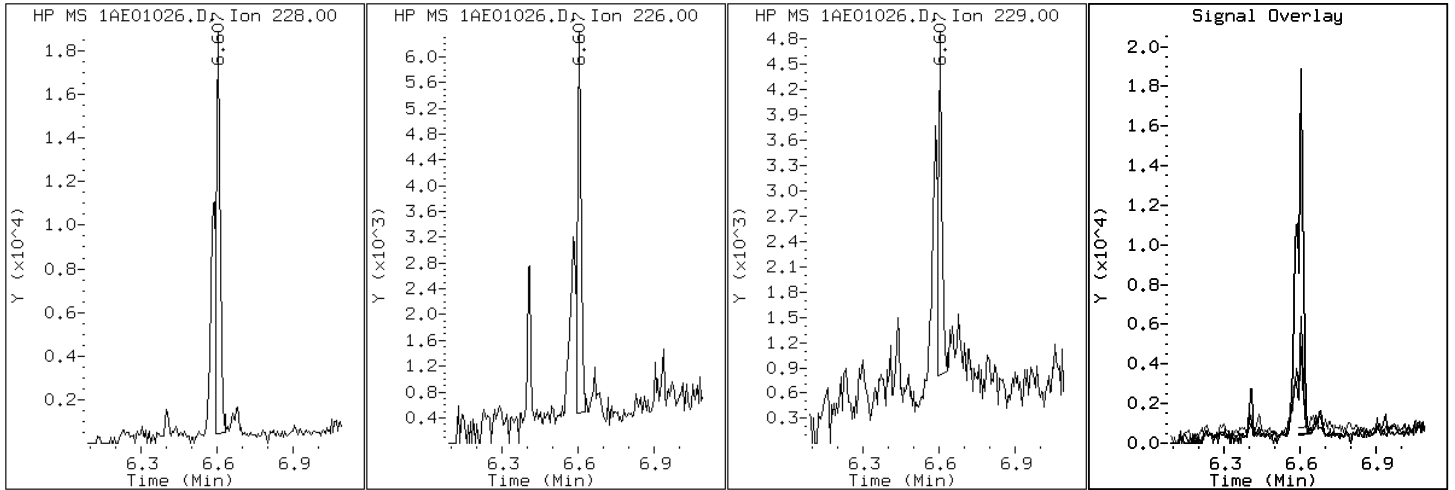
Client ID: CV1116A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-8-a

Operator: SCC

19 Chrysene



Data File: 1AE01026.D

Date: 01-MAY-2013 19:18

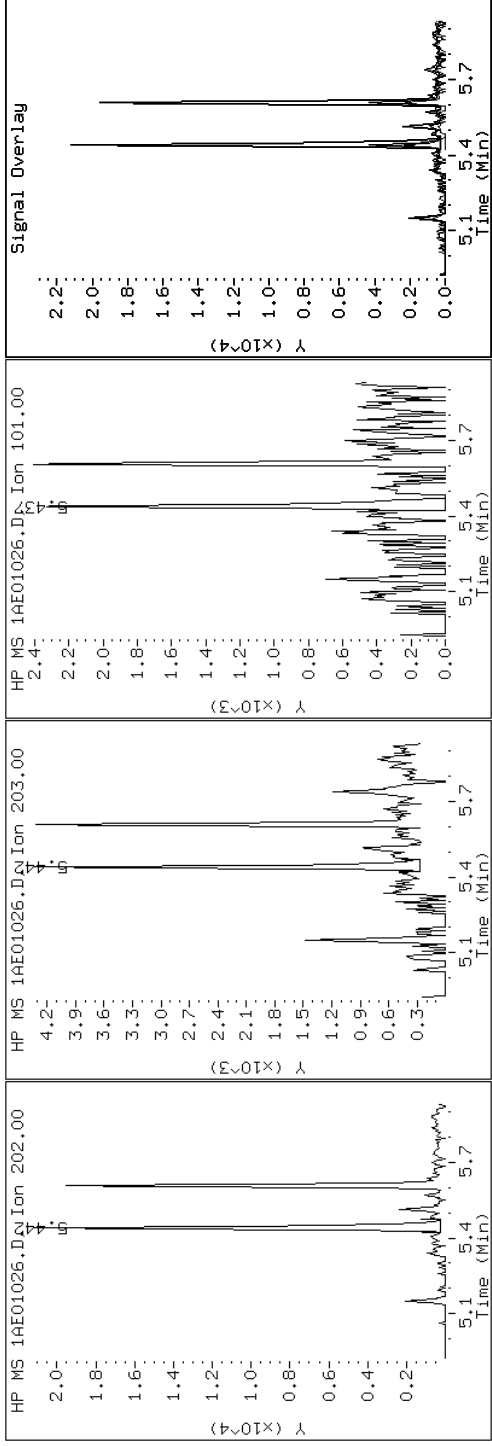
Client ID: CV1116A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-8-a

Operator: SCC

15 Fluoranthene





Data File: 1AE01026.D

Date: 01-MAY-2013 19:18

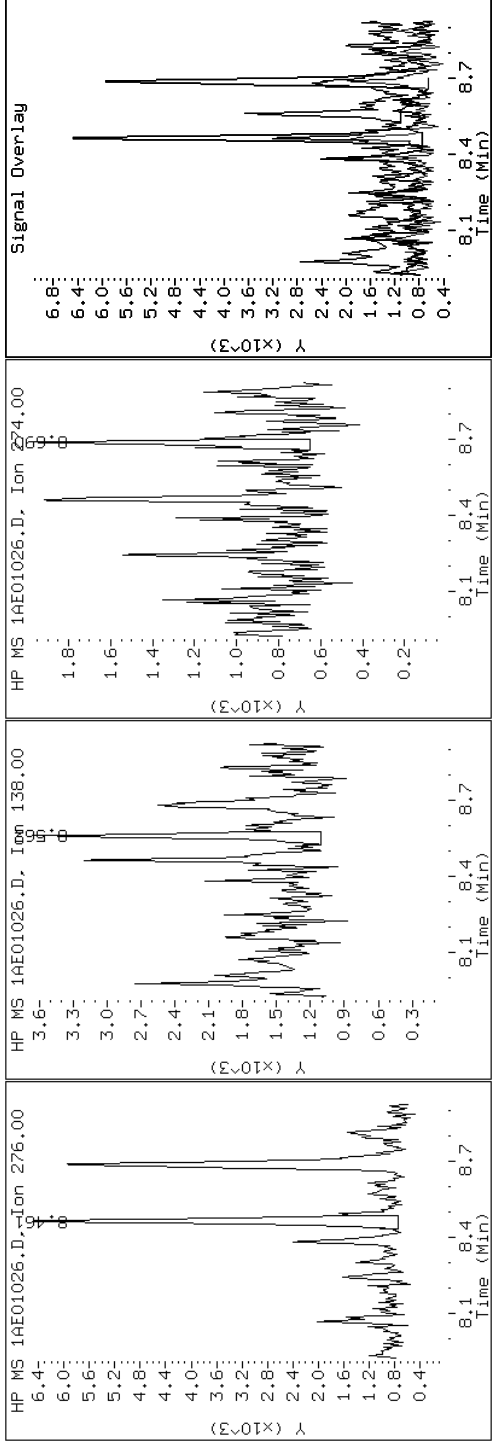
Client ID: CV1116A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-8-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



Data File: 1AE01026.D

Date: 01-MAY-2013 19:18

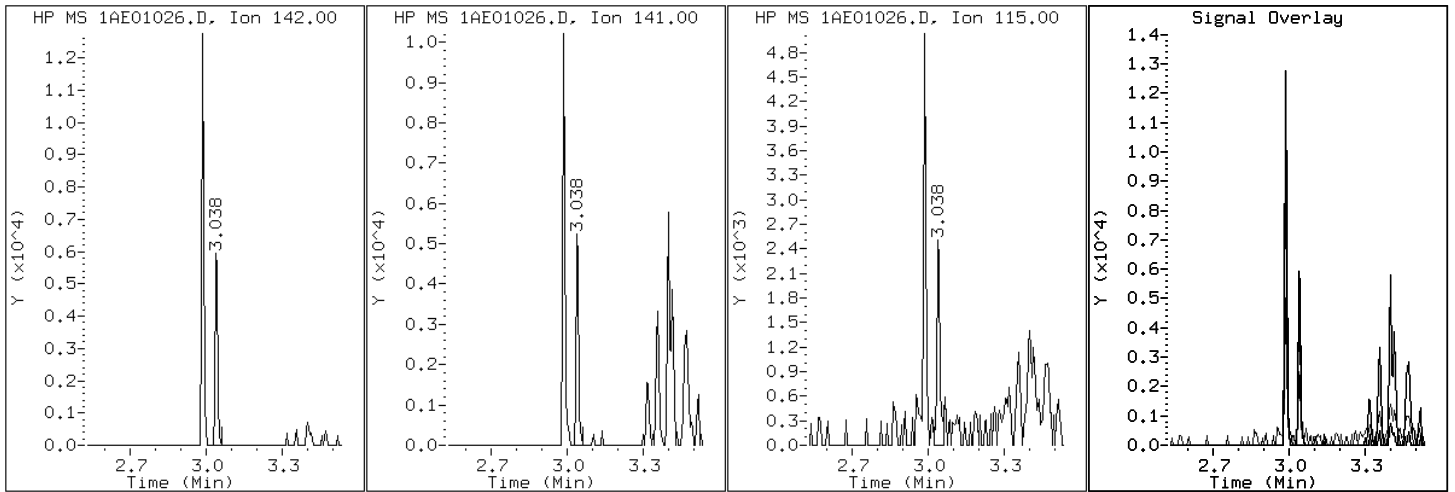
Client ID: CV1116A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-8-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE01026.D

Date: 01-MAY-2013 19:18

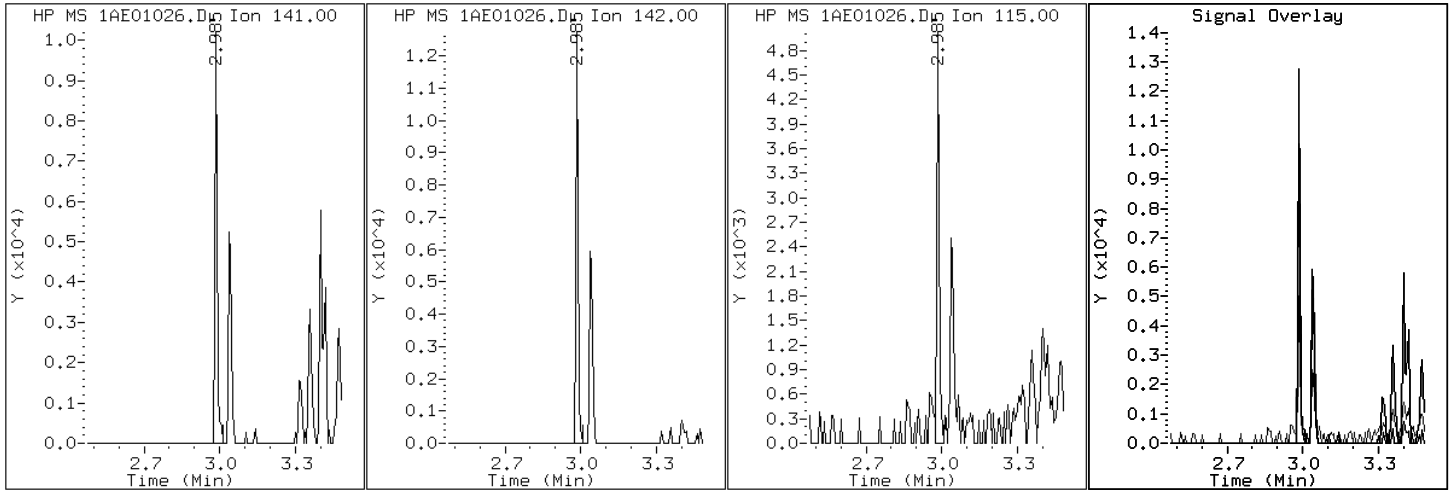
Client ID: CV1116A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-8-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AE01026.D

Date: 01-MAY-2013 19:18

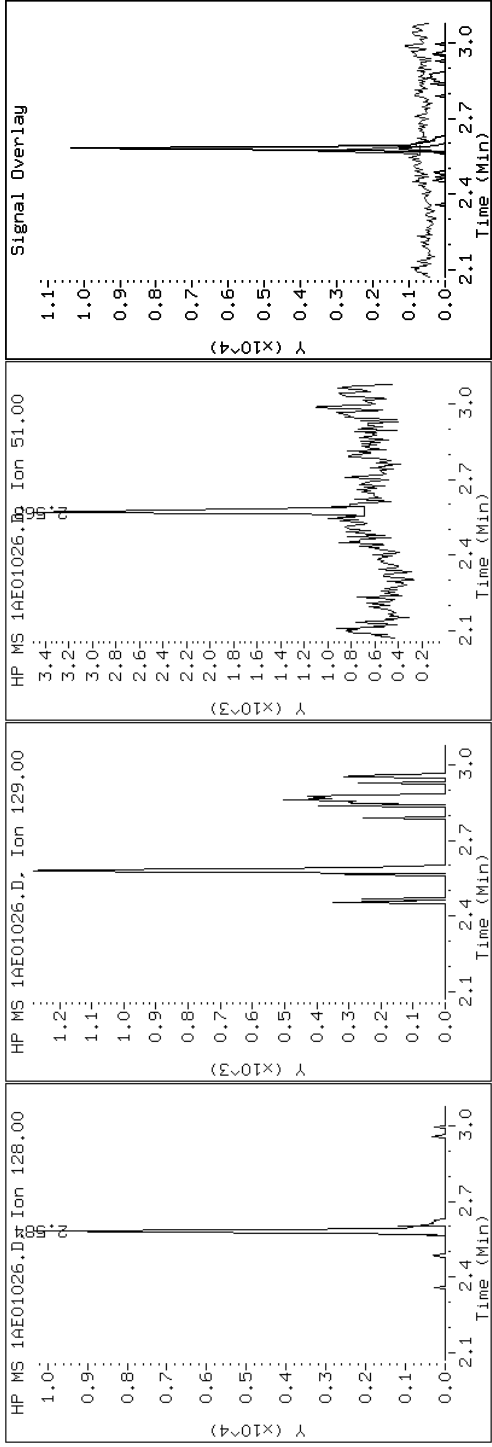
Client ID: CV1116A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-8-a

Operator: SCC

### 2 Naphthalene



Data File: 1AE01026.D

Date: 01-MAY-2013 19:18

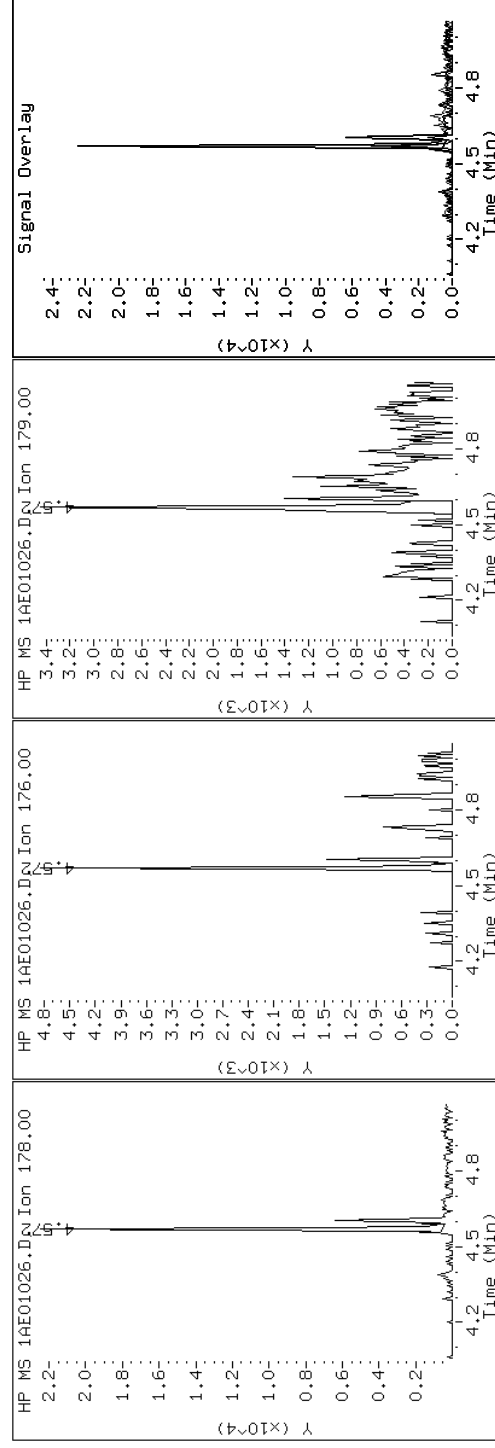
Client ID: CV1116A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-8-a

Operator: SCC

### 11 Phenanthrene



Data File: 1AE01026.D

Date: 01-MAY-2013 19:18

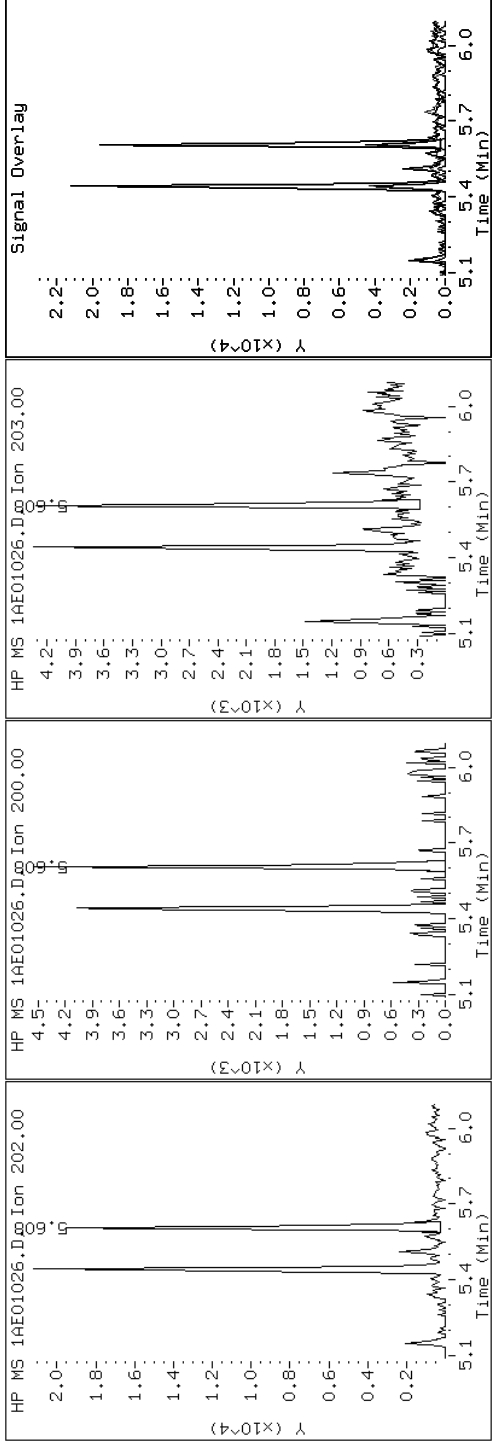
Client ID: CV1116A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-8-a

Operator: SCC

16 Pyrene



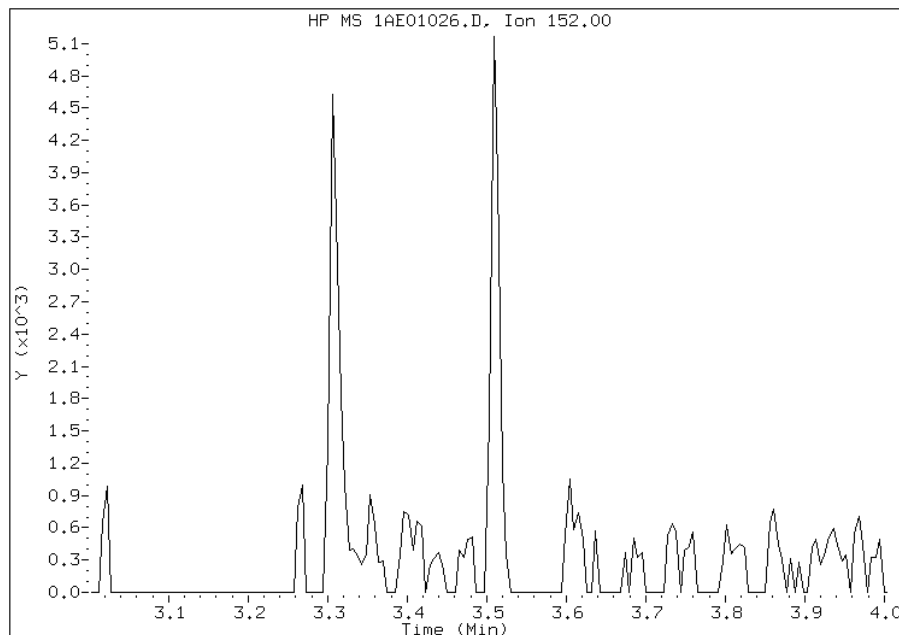
# Manual Integration Report

Data File: 1AE01026.D  
Inj. Date and Time: 01-MAY-2013 19:18  
Instrument ID: BSMA5973.i  
Client ID: CV1116A-CS  
Compound: 5 Acenaphthylene  
CAS #: 208-96-8  
Report Date: 05/05/2013

## Processing Integration Results

Not Detected

Expected RT: 3.50



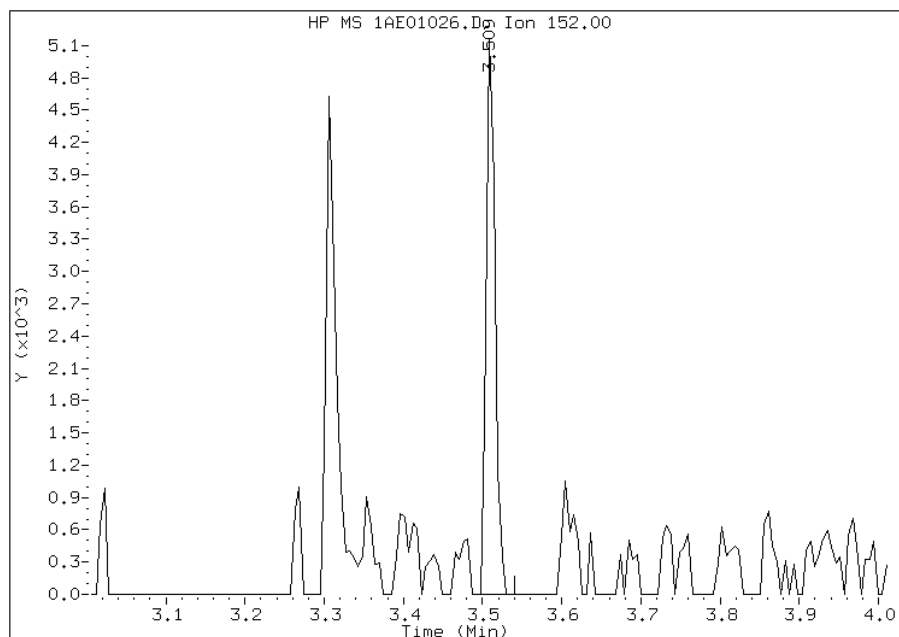
## Manual Integration Results

RT: 3.51

Response: 3882

Amount: 0

Conc: 30



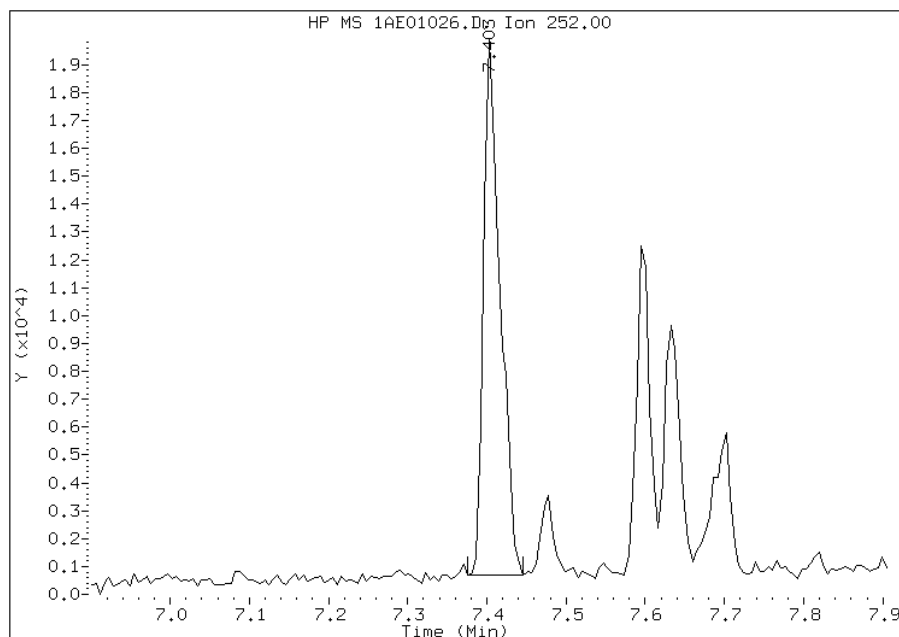
Manually Integrated By: cantins  
Modification Date: 05-May-2013 17:13  
Manual Integration Reason: Analyte not Identified by the Data System

# Manual Integration Report

Data File: 1AE01026.D  
Inj. Date and Time: 01-MAY-2013 19:18  
Instrument ID: BSMA5973.i  
Client ID: CV1116A-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 05/05/2013

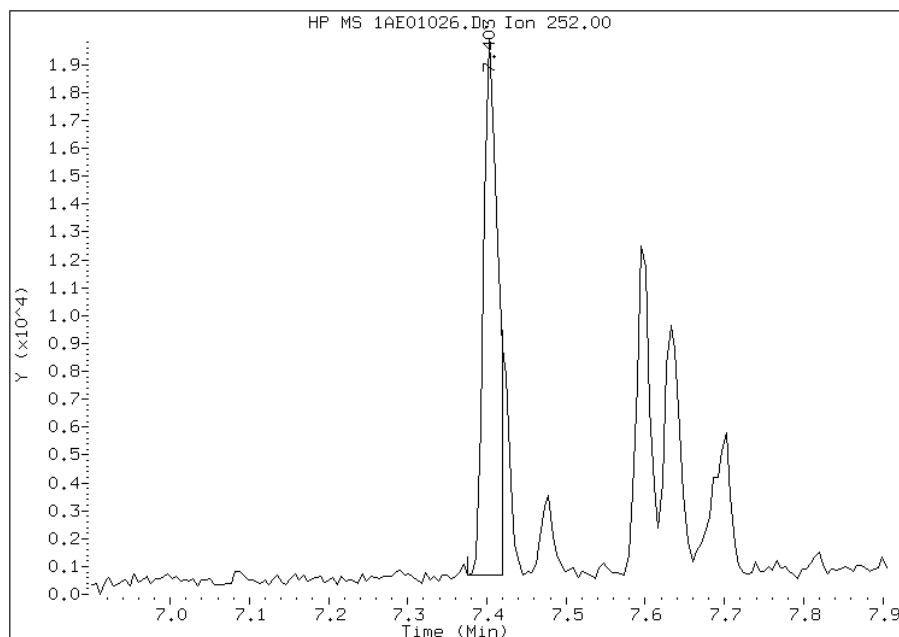
## Processing Integration Results

RT: 7.40  
Response: 27666  
Amount: 1  
Conc: 194



## Manual Integration Results

RT: 7.40  
Response: 23784  
Amount: 0  
Conc: 166



Manually Integrated By: cantins  
Modification Date: 05-May-2013 17:13  
Manual Integration Reason: Split Peak

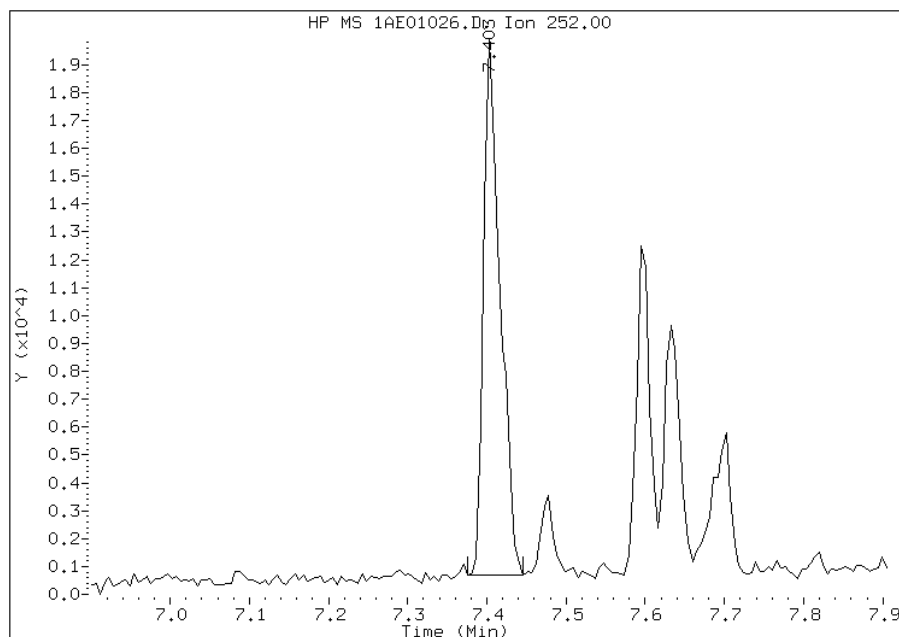


# Manual Integration Report

Data File: 1AE01026.D  
Inj. Date and Time: 01-MAY-2013 19:18  
Instrument ID: BSMA5973.i  
Client ID: CV1116A-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 05/05/2013

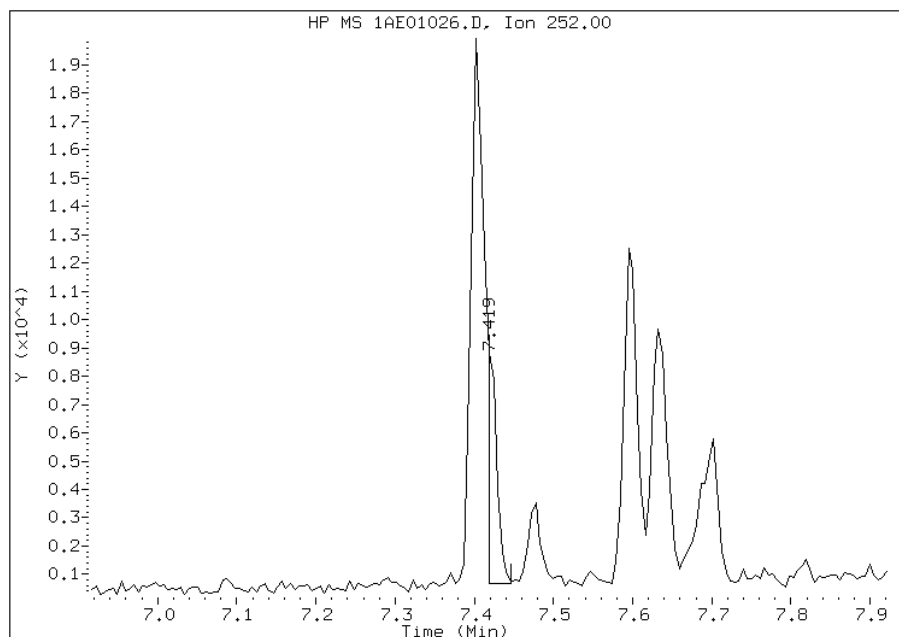
## Processing Integration Results

RT: 7.40  
Response: 27666  
Amount: 1  
Conc: 168



## Manual Integration Results

RT: 7.42  
Response: 6483  
Amount: 0  
Conc: 39



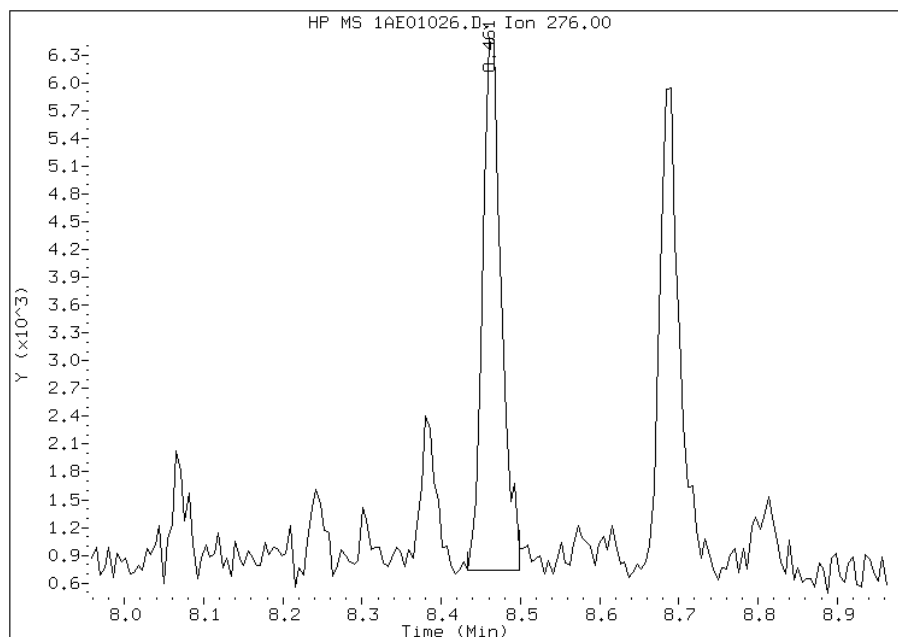
Manually Integrated By: cantins  
Modification Date: 05-May-2013 17:13  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE01026.D  
Inj. Date and Time: 01-MAY-2013 19:18  
Instrument ID: BSMA5973.i  
Client ID: CV1116A-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/05/2013

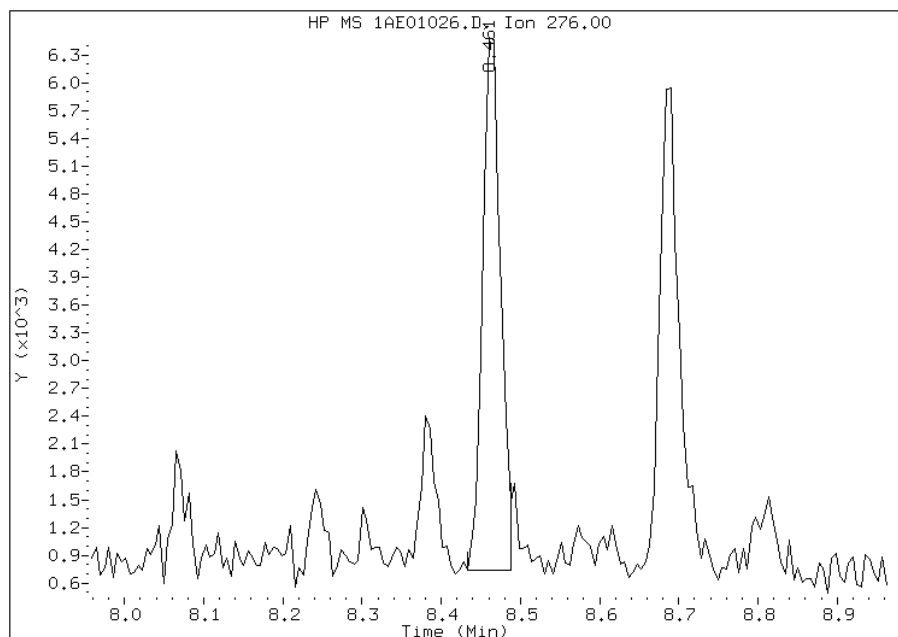
## Processing Integration Results

RT: 8.46  
Response: 9370  
Amount: 0  
Conc: 70



## Manual Integration Results

RT: 8.46  
Response: 8998  
Amount: 0  
Conc: 67



Manually Integrated By: cantins  
Modification Date: 05-May-2013 17:14  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: CV1116B-CS Lab Sample ID: 680-89791-9  
 Matrix: Solid Lab File ID: 1AE01027.D  
 Analysis Method: 8270C LL Date Collected: 04/24/2013 10:25  
 Extract. Method: 3546 Date Extracted: 04/29/2013 14:27  
 Sample wt/vol: 14.95(g) Date Analyzed: 05/01/2013 19:33  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 19.6 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137001 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	18	J	50	6.2
120-12-7	Anthracene	23		10	5.2
56-55-3	Benzo[a]anthracene	59		10	4.9
50-32-8	Benzo[a]pyrene	53		13	6.5
205-99-2	Benzo[b]fluoranthene	100		15	7.6
191-24-2	Benzo[g,h,i]perylene	42		25	5.5
207-08-9	Benzo[k]fluoranthene	29		10	4.5
218-01-9	Chrysene	69		11	5.6
53-70-3	Dibenz(a,h)anthracene	11	J	25	5.1
206-44-0	Fluoranthene	95		25	5.0
86-73-7	Fluorene	25	U	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	41		25	8.9
90-12-0	1-Methyl-naphthalene	17	J	50	5.5
91-57-6	2-Methyl-naphthalene	24	J	50	8.9
91-20-3	Naphthalene	30	J	50	5.5
85-01-8	Phenanthrene	63		10	4.9
129-00-0	Pyrene	63		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	36		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01027.D  
 Lab Smp Id: 680-89791-A-9-A Client Smp ID: CV1116B-CS  
 Inj Date : 01-MAY-2013 19:33  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-89791-a-9-a  
 Misc Info : 680-89791-A-9-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\a-bFASTPAHi-m.m  
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 24  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	19.608	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.570	2.563 (1.000)	1331667	40.0000				
* 6 Acenaphthene-d10	164	3.596	3.594 (1.000)	717156	40.0000				
* 10 Phenanthrene-d10	188	4.557	4.544 (1.000)	1097878	40.0000				
\$ 14 o-Terphenyl	230	4.851	4.844 (1.064)	64740	3.60521	299.9683			
* 18 Chrysene-d12	240	6.593	6.574 (1.000)	1253519	40.0000				
* 23 Perylene-d12	264	7.693	7.659 (1.000)	1494724	40.0000				
2 Naphthalene	128	2.581	2.573 (1.004)	12062	0.36234	30.1484			
3 2-Methylnaphthalene	141	2.987	2.979 (1.162)	5467	0.28645	23.8339			
4 1-Methylnaphthalene	142	3.040	3.033 (1.183)	4272	0.20203	16.8100			
5 Acenaphthylene	152	3.510	3.503 (0.976)	9229	0.22020	18.3212			
11 Phenanthrene	178	4.568	4.560 (1.002)	24090	0.75747	63.0244			
12 Anthracene	178	4.605	4.593 (1.011)	9083	0.27467	22.8537			
13 Carbazole	167	4.739	4.726 (1.040)	5761	0.18059	15.0257(Q)			
15 Fluoranthene	202	5.439	5.426 (1.193)	41770	1.13711	94.6120			

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
16 Pyrene	202	5.610	5.592	(0.851)	36413	0.76142	63.3531
17 Benzo(a)anthracene	228	6.587	6.558	(0.999)	29081	0.71040	59.1080
19 Chrysene	228	6.609	6.590	(1.002)	34610	0.83336	69.3390
20 Benzo(b)fluoranthene	252	7.405	7.381	(0.963)	56443	1.24382	103.4906(M)
21 Benzo(k)fluoranthene	252	7.421	7.402	(0.965)	18173	0.34831	28.9811(QM)
22 Benzo(a)pyrene	252	7.634	7.605	(0.992)	28776	0.63743	53.0369
24 Indeno(1,2,3-cd)pyrene	276	8.473	8.423	(1.101)	21073	0.49438	41.1345(M)
25 Dibenzo(a,h)anthracene	278	8.495	8.450	(1.104)	5115	0.12897	10.7308
26 Benzo(g,h,i)perylene	276	8.703	8.642	(1.131)	23918	0.50137	41.7158

QC Flag Legend

Q - Qualifier signal failed the ratio test.  
M - Compound response manually integrated.

Data File: 1AE01027.D

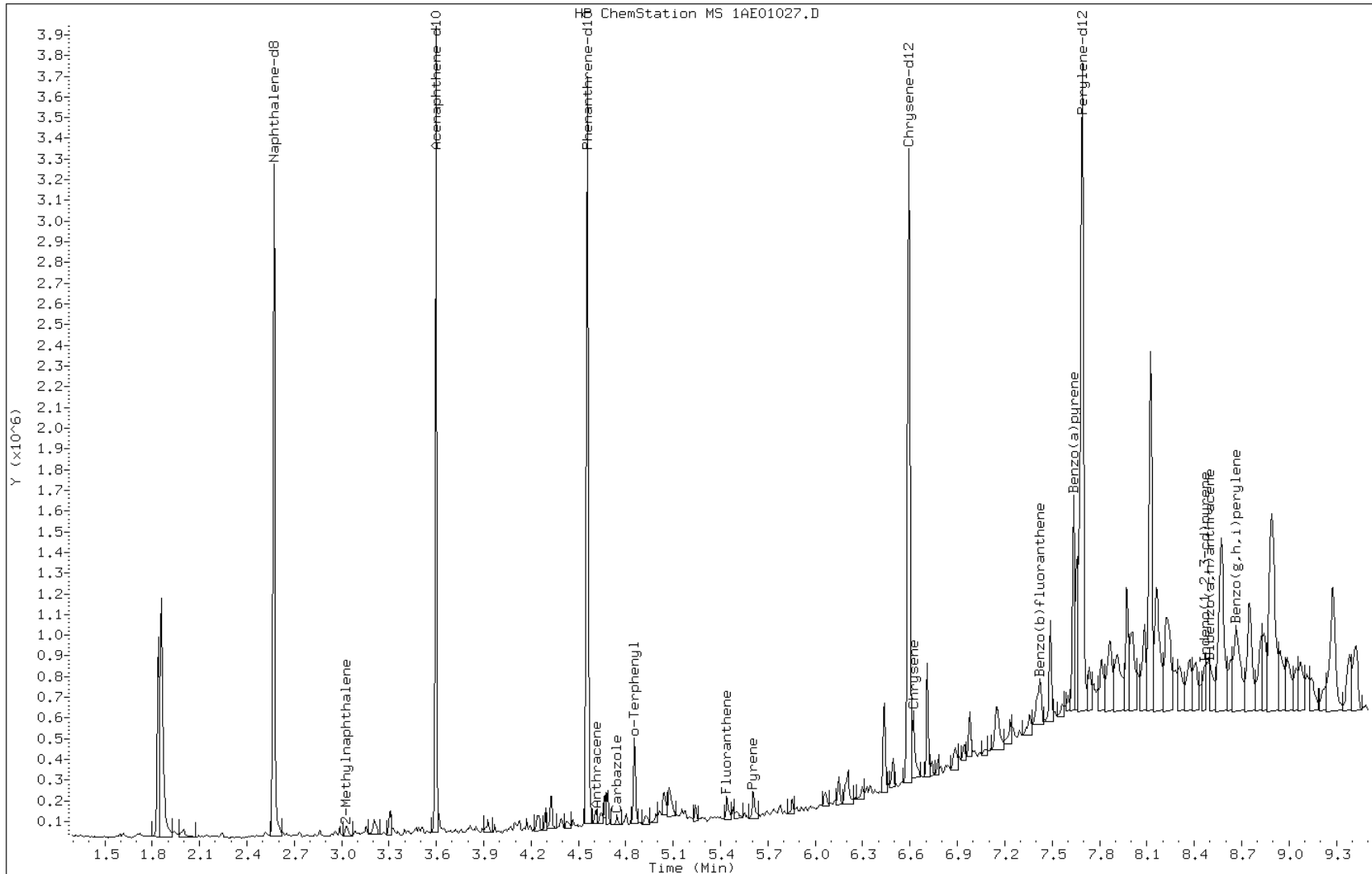
Date: 01-MAY-2013 19:33

Client ID: CV1116B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-9-a

Operator: SCC



Data File: 1AE01027.D

Date: 01-MAY-2013 19:33

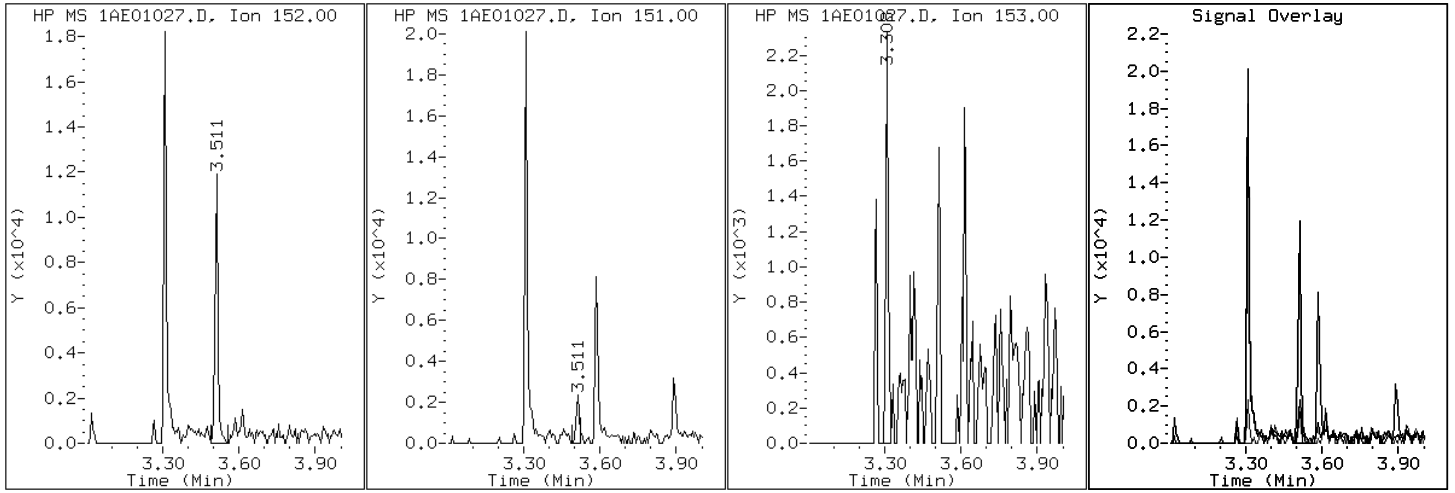
Client ID: CV1116B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-9-a

Operator: SCC

5 Acenaphthylene



Data File: 1AE01027.D

Date: 01-MAY-2013 19:33

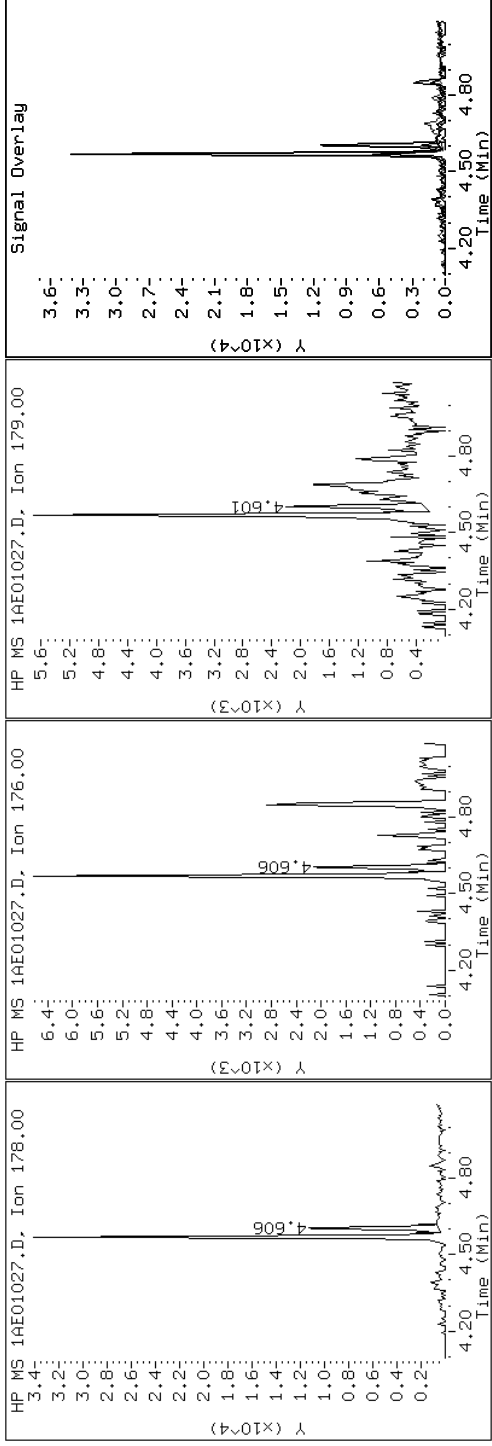
Client ID: CV11116B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-9-a

Operator: SCC

12 Anthracene





Data File: 1AE01027.D

Date: 01-MAY-2013 19:33

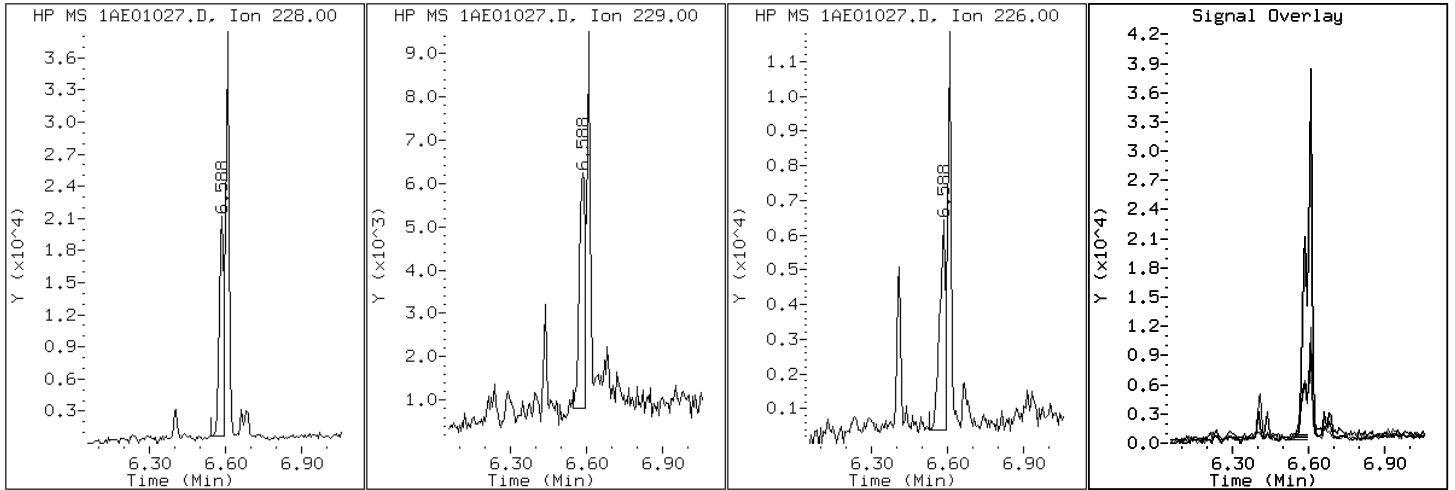
Client ID: CV1116B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-9-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AE01027.D

Date: 01-MAY-2013 19:33

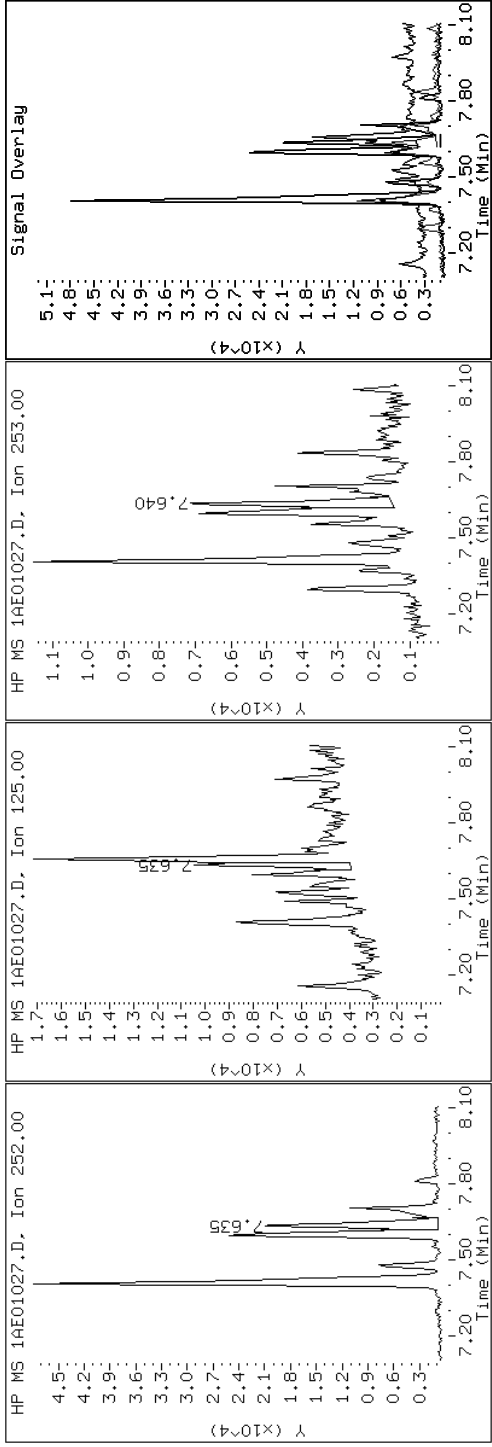
Client ID: CV11116B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-9-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AE01027.D

Date: 01-MAY-2013 19:33

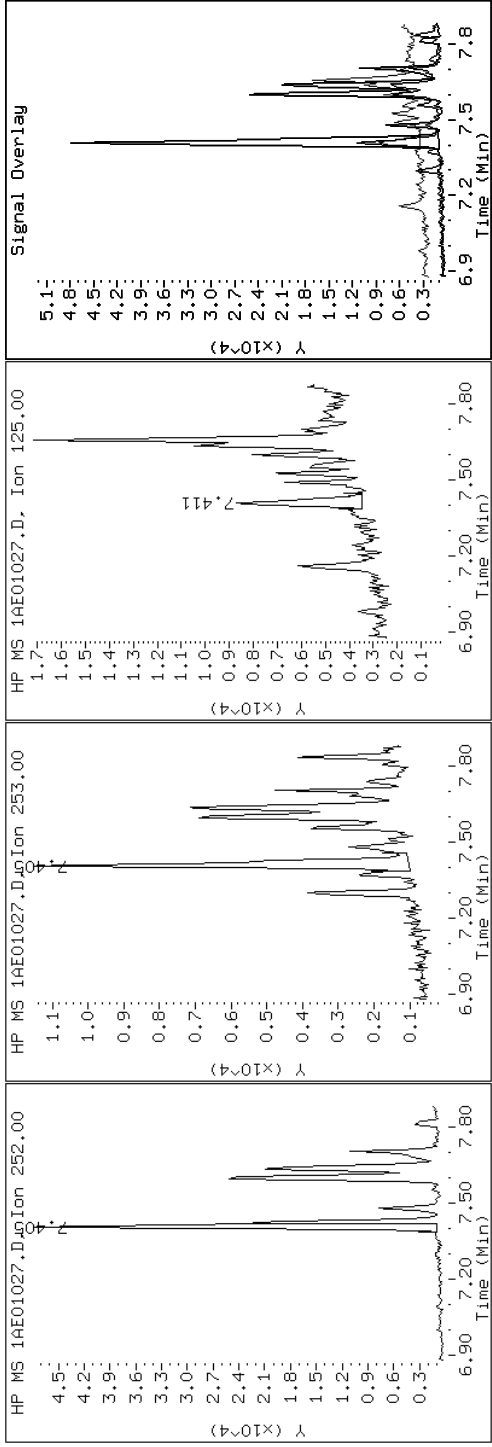
Client ID: CV1116B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-9-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AE01027.D

Date: 01-MAY-2013 19:33

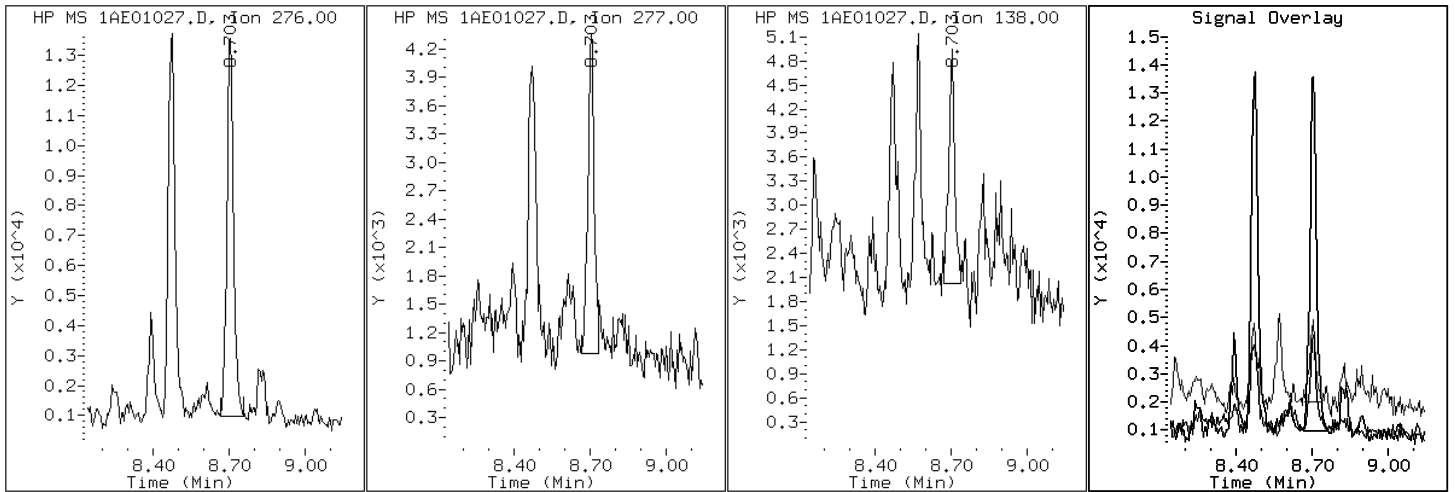
Client ID: CV1116B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-9-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AE01027.D

Date: 01-MAY-2013 19:33

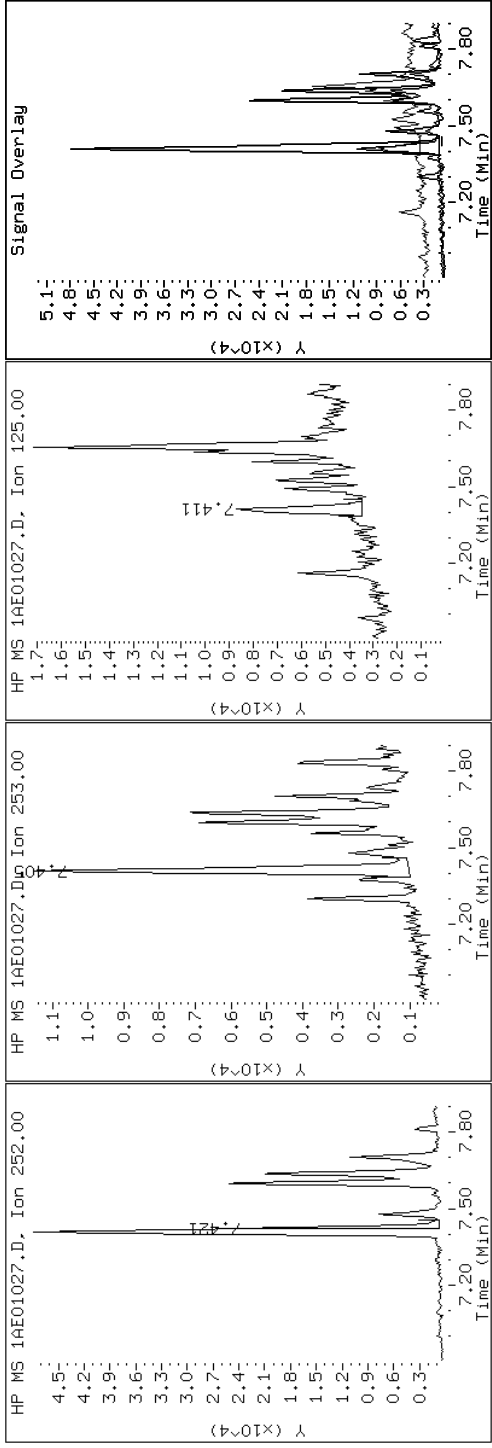
Client ID: CV1116B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-9-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AE01027.D

Date: 01-MAY-2013 19:33

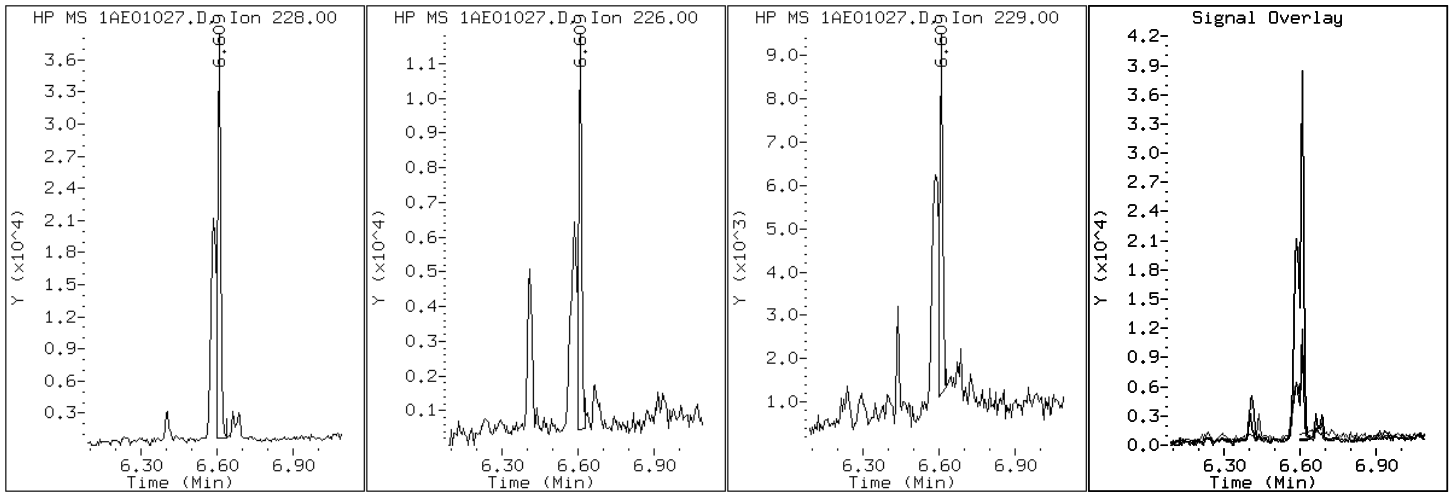
Client ID: CV1116B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-9-a

Operator: SCC

19 Chrysene



Data File: 1AE01027.D

Date: 01-MAY-2013 19:33

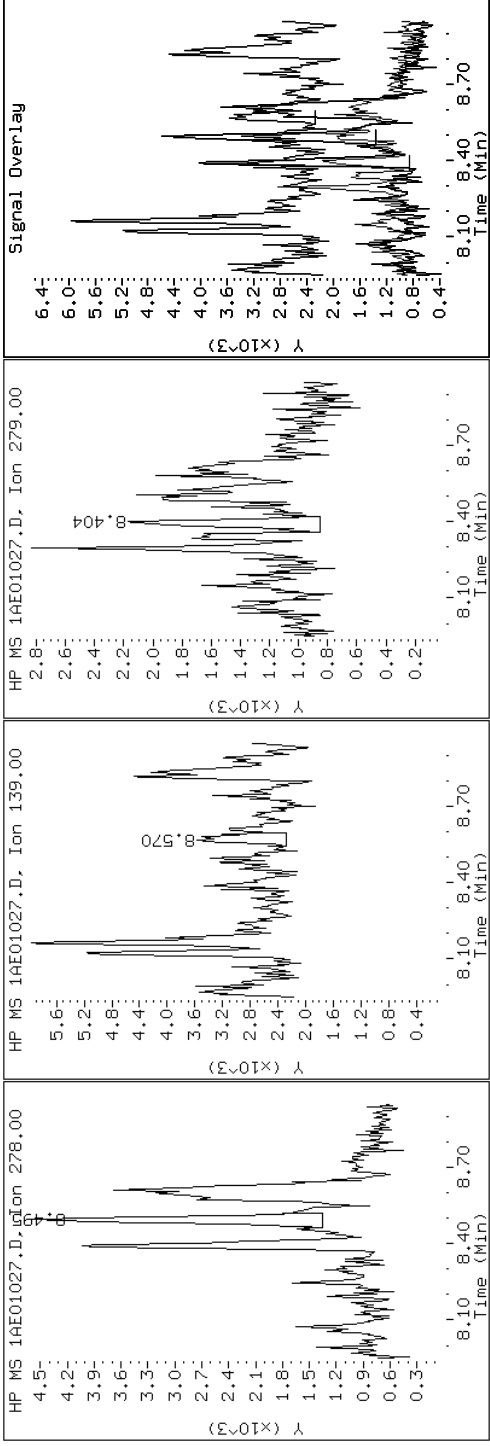
Client ID: CV1116B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-9-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AE01027.D

Date: 01-MAY-2013 19:33

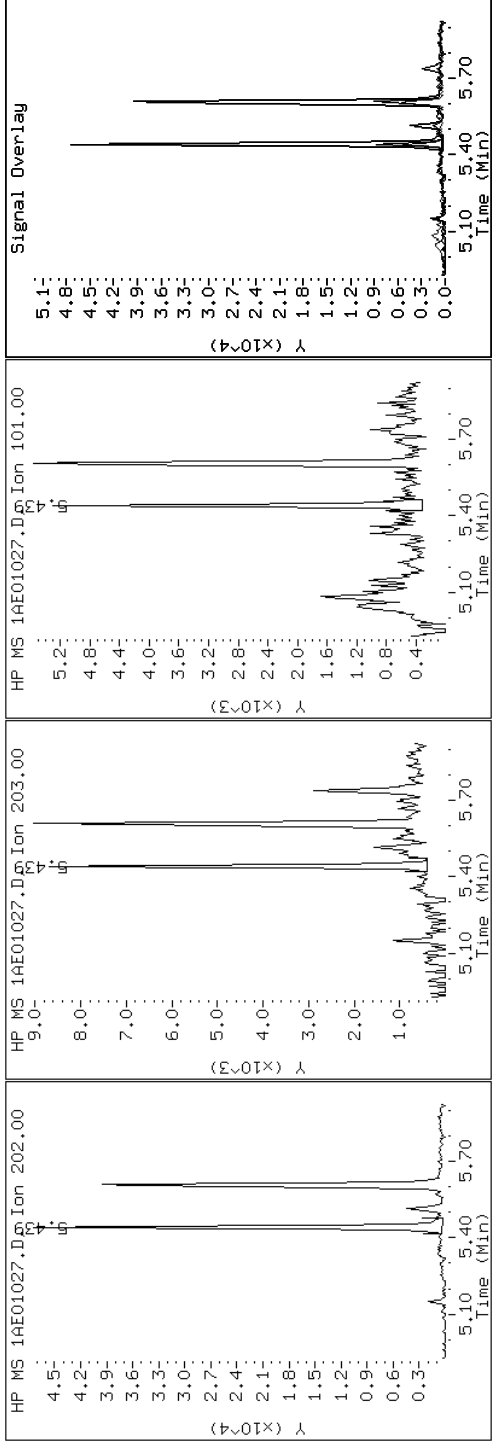
Client ID: CV1116B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-9-a

Operator: SCC

15 Fluoranthene





Data File: 1AE01027.D

Date: 01-MAY-2013 19:33

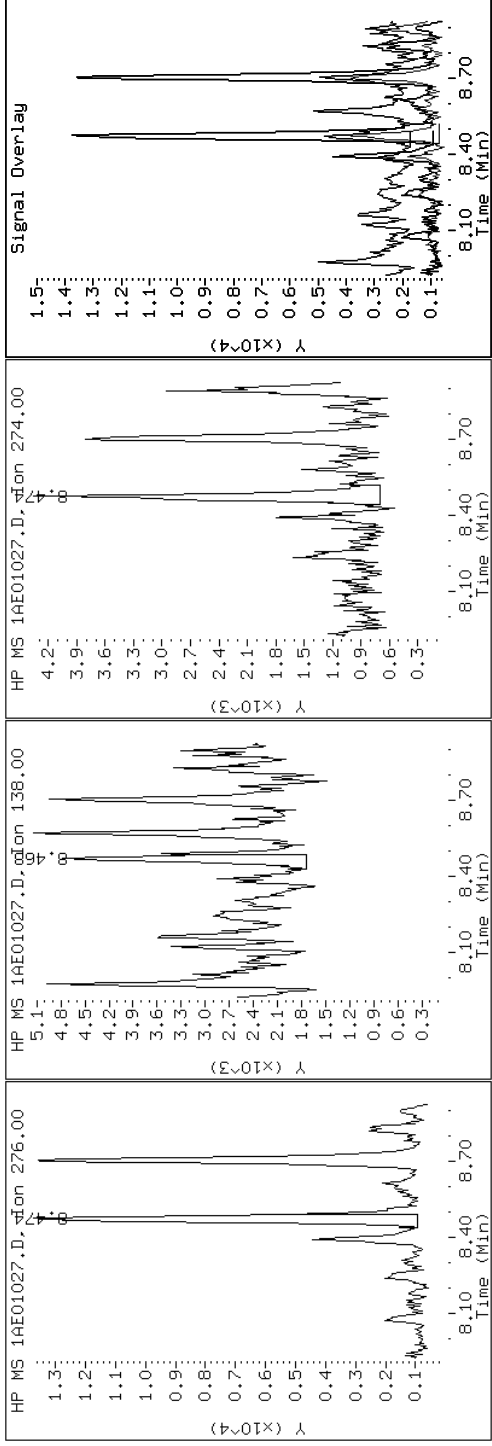
Client ID: CV1116B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-9-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



Data File: 1AE01027.D

Date: 01-MAY-2013 19:33

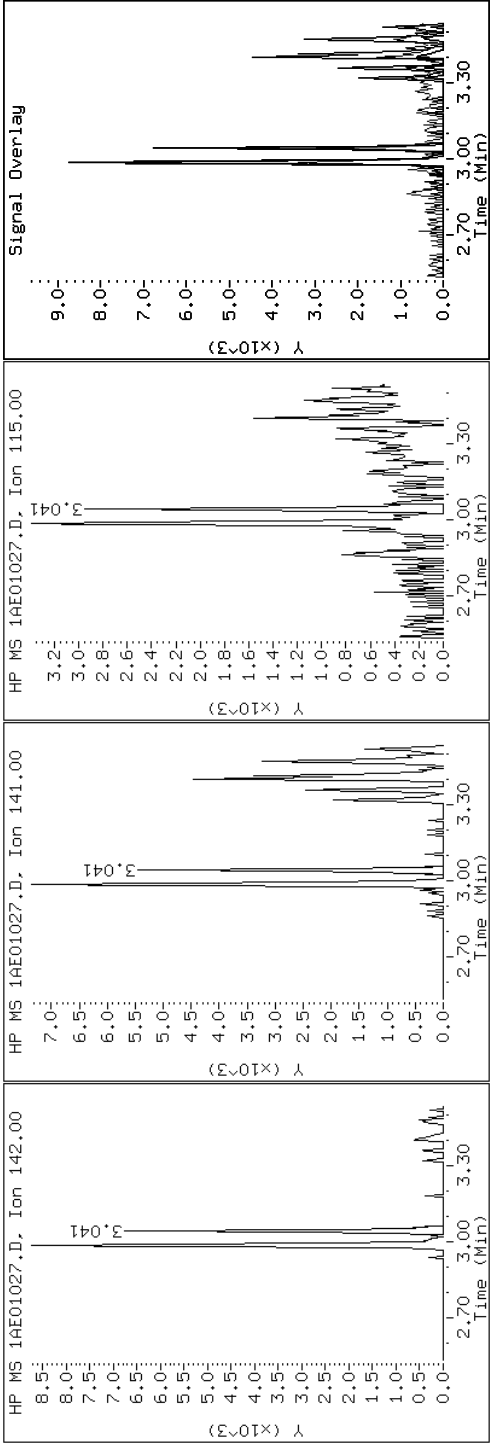
Client ID: CV1116B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-9-a

Operator: SCC

### 4 1-Methylnaphthalene



Data File: 1AE01027.D

Date: 01-MAY-2013 19:33

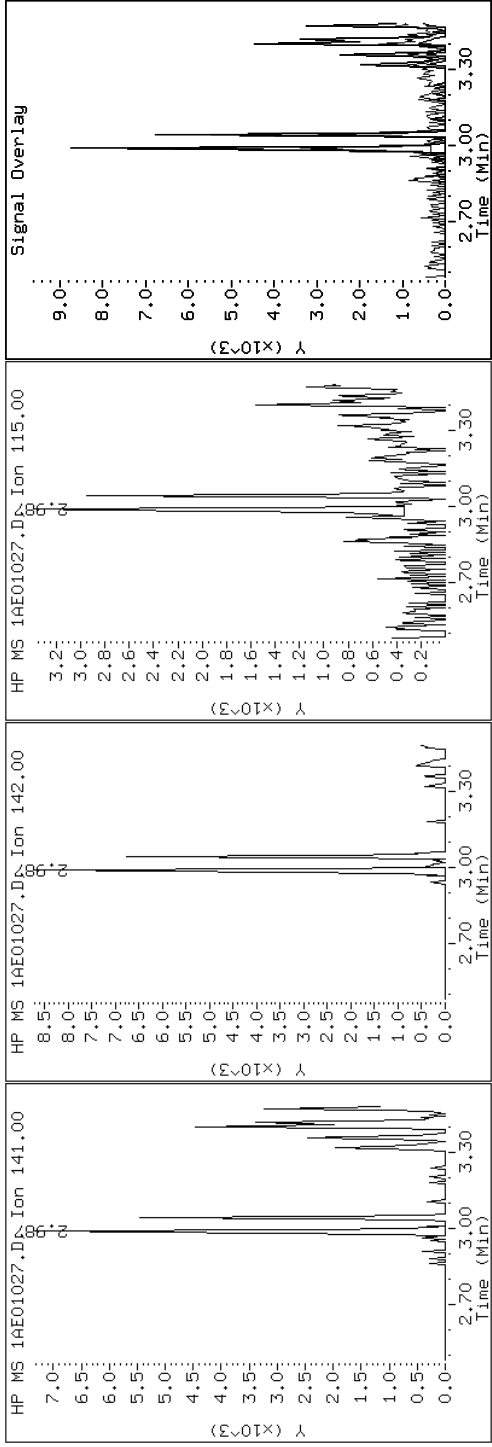
Client ID: CV1116B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-9-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1AE01027.D

Date: 01-MAY-2013 19:33

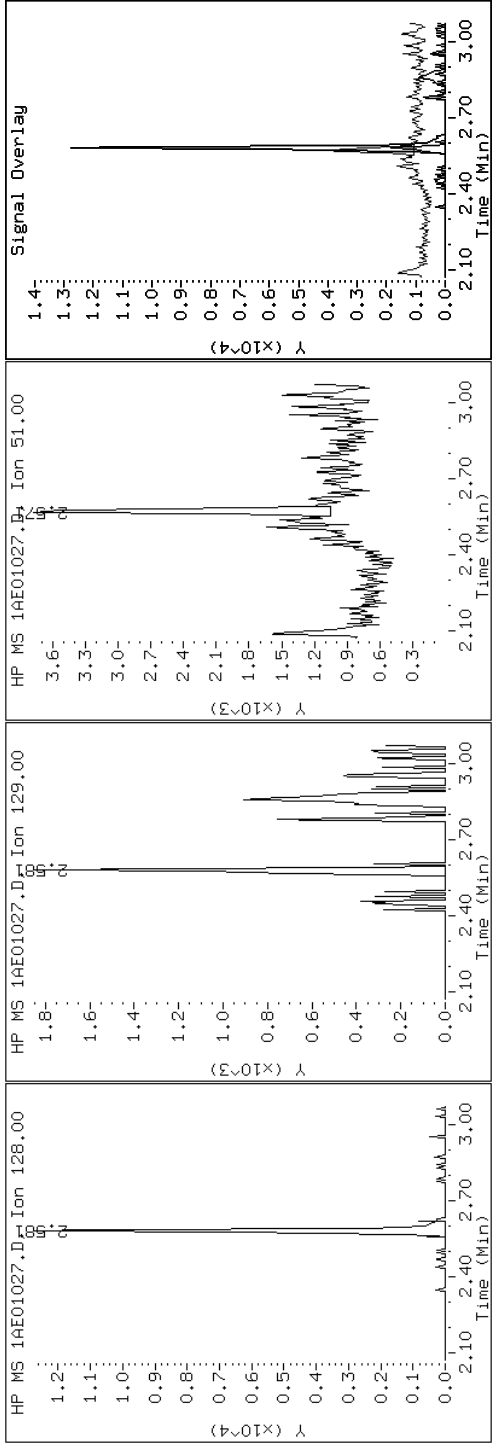
Client ID: CV1116B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-9-a

Operator: SCC

2 Naphthalene



Data File: 1AE01027.D

Date: 01-MAY-2013 19:33

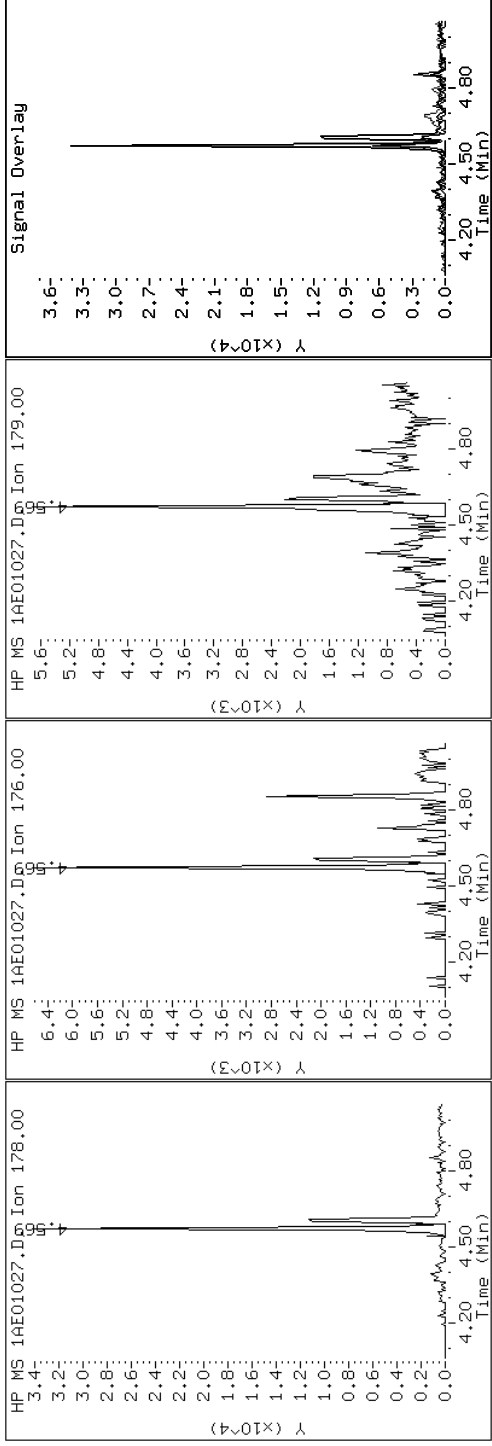
Client ID: CV1116B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-9-a

Operator: SCC

11 Phenanthrene



Data File: 1AE01027.D

Date: 01-MAY-2013 19:33

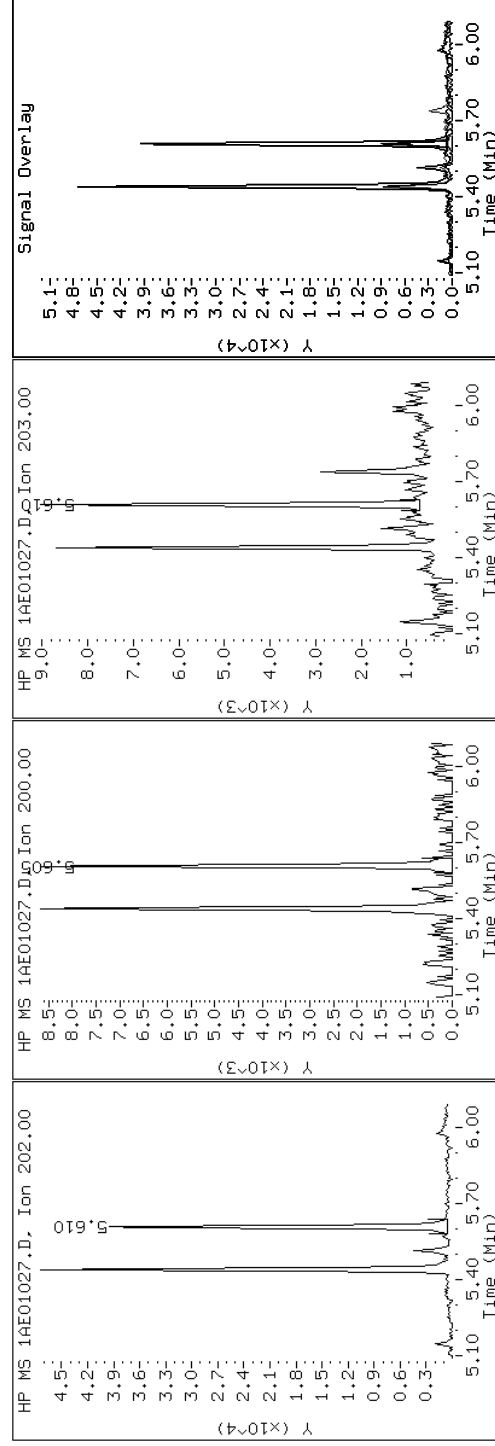
Client ID: CV1116B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-9-a

Operator: SCC

16 Pyrene

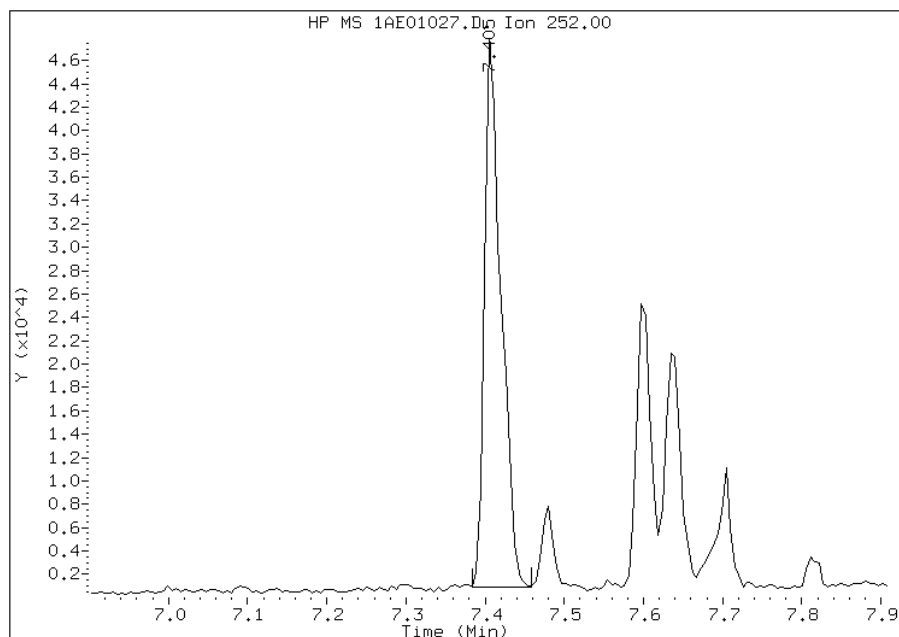


# Manual Integration Report

Data File: 1AE01027.D  
Inj. Date and Time: 01-MAY-2013 19:33  
Instrument ID: BSMA5973.i  
Client ID: CV1116B-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 05/05/2013

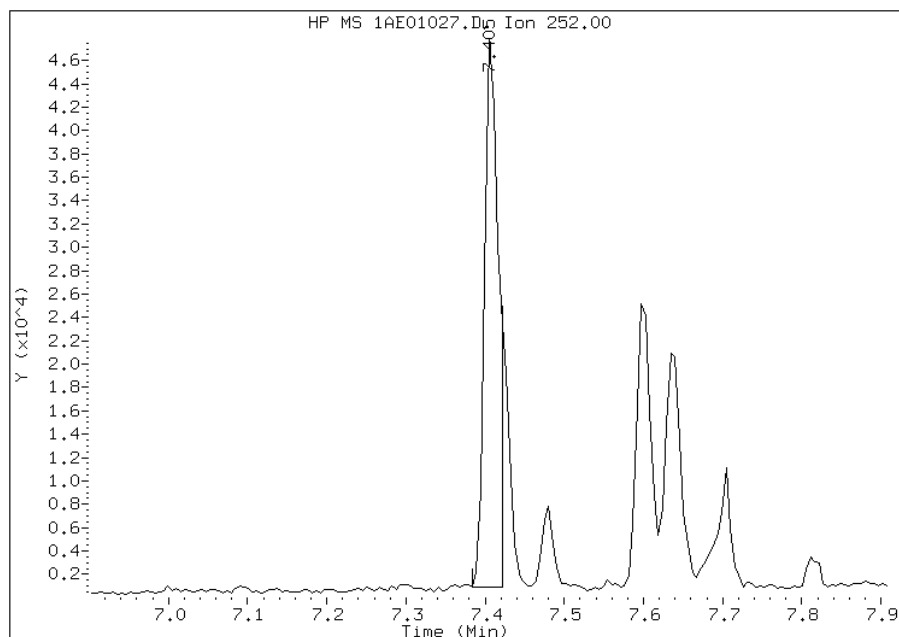
## Processing Integration Results

RT: 7.41  
Response: 67059  
Amount: 1  
Conc: 123



## Manual Integration Results

RT: 7.41  
Response: 56443  
Amount: 1  
Conc: 103



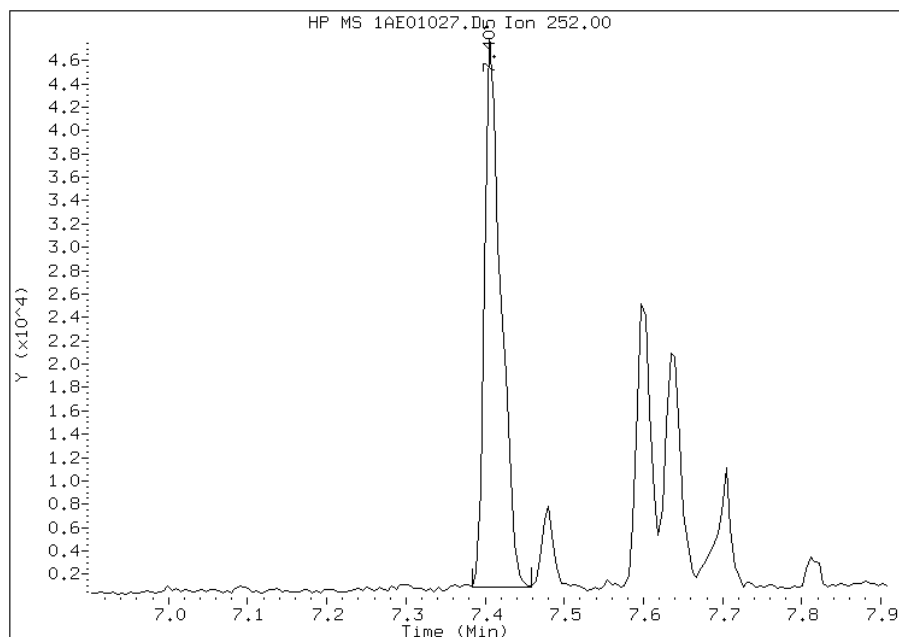
Manually Integrated By: cantins  
Modification Date: 05-May-2013 18:36  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AE01027.D  
Inj. Date and Time: 01-MAY-2013 19:33  
Instrument ID: BSMA5973.i  
Client ID: CV1116B-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 05/05/2013

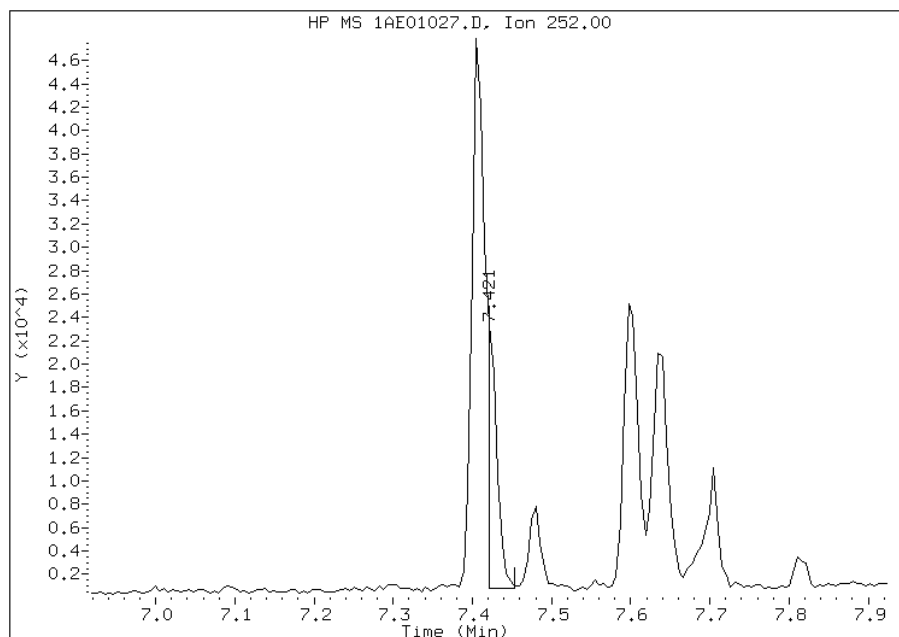
## Processing Integration Results

RT: 7.41  
Response: 67059  
Amount: 1  
Conc: 107



## Manual Integration Results

RT: 7.42  
Response: 18173  
Amount: 0  
Conc: 29



Manually Integrated By: cantins  
Modification Date: 05-May-2013 18:37  
Manual Integration Reason: Baseline Event

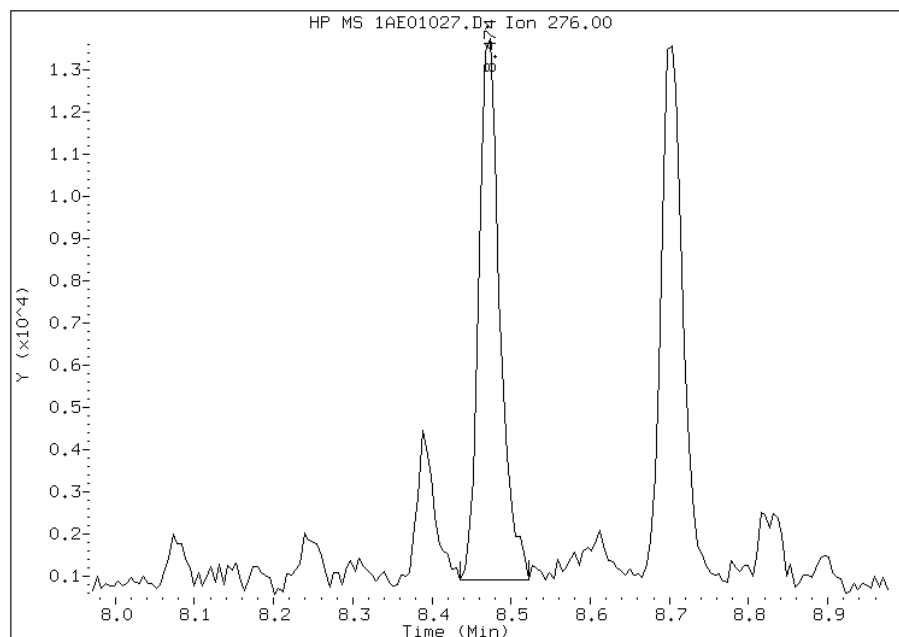


# Manual Integration Report

Data File: 1AE01027.D  
Inj. Date and Time: 01-MAY-2013 19:33  
Instrument ID: BSMA5973.i  
Client ID: CV1116B-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/05/2013

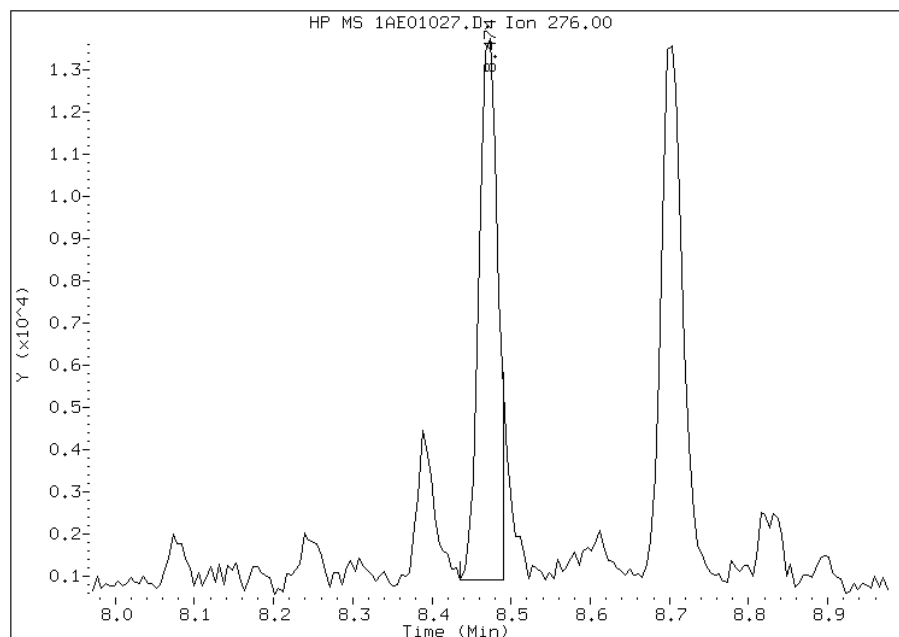
## Processing Integration Results

RT: 8.47  
Response: 23445  
Amount: 1  
Conc: 46



## Manual Integration Results

RT: 8.47  
Response: 21073  
Amount: 0  
Conc: 41



Manually Integrated By: cantins  
Modification Date: 05-May-2013 18:37  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: CV1336A-CS Lab Sample ID: 680-89791-10  
 Matrix: Solid Lab File ID: 1AE01028.D  
 Analysis Method: 8270C LL Date Collected: 04/24/2013 09:20  
 Extract. Method: 3546 Date Extracted: 04/29/2013 14:27  
 Sample wt/vol: 15.15(g) Date Analyzed: 05/01/2013 19:48  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 17.4 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137001 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	14	J	48	6.0
120-12-7	Anthracene	22		10	5.0
56-55-3	Benzo[a]anthracene	82		9.6	4.7
50-32-8	Benzo[a]pyrene	83		12	6.2
205-99-2	Benzo[b]fluoranthene	140		15	7.3
191-24-2	Benzo[g,h,i]perylene	59		24	5.3
207-08-9	Benzo[k]fluoranthene	47		9.6	4.3
218-01-9	Chrysene	110		11	5.4
53-70-3	Dibenz(a,h)anthracene	17	J	24	4.9
206-44-0	Fluoranthene	120		24	4.8
86-73-7	Fluorene	5.1	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	58		24	8.5
90-12-0	1-Methyl-naphthalene	35	J	48	5.3
91-57-6	2-Methyl-naphthalene	41	J	48	8.5
91-20-3	Naphthalene	41	J	48	5.3
85-01-8	Phenanthrene	79		9.6	4.7
129-00-0	Pyrene	88		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	56		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01028.D  
 Lab Smp Id: 680-89791-A-10-A Client Smp ID: CV1336A-CS  
 Inj Date : 01-MAY-2013 19:48  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-89791-a-10-a  
 Misc Info : 680-89791-A-10-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\a-bFASTPAHi-m.m  
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 25  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.150	Weight Extracted
M	17.401	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.570	2.563	(1.000)	1377223	40.0000		
* 6 Acenaphthene-d10	164		3.601	3.594	(1.000)	738177	40.0000		
* 10 Phenanthrene-d10	188		4.557	4.544	(1.000)	1133543	40.0000		
\$ 14 o-Terphenyl	230		4.857	4.844	(1.066)	104595	5.64137	450.8158	
* 18 Chrysene-d12	240		6.598	6.574	(1.000)	1268579	40.0000		
* 23 Perylene-d12	264		7.699	7.659	(1.000)	1529286	40.0000		
2 Naphthalene	128		2.581	2.573	(1.004)	17648	0.51261	40.9639	
3 2-Methylnaphthalene	141		2.987	2.979	(1.162)	10076	0.51048	40.7939	
4 1-Methylnaphthalene	142		3.040	3.033	(1.183)	9683	0.44279	35.3842	
5 Acenaphthylene	152		3.510	3.503	(0.975)	7306	0.16935	13.5332	
9 Fluorene	166		3.932	3.925	(1.092)	1727	0.06345	5.0701(Q)	
11 Phenanthrene	178		4.568	4.560	(1.002)	32650	0.99432	79.4586	
12 Anthracene	178		4.605	4.593	(1.011)	9333	0.27335	21.8441(Q)	
13 Carbazole	167		4.744	4.726	(1.041)	5247	0.15930	12.7302	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	5.444	5.426	(1.195)	54787	1.44454	115.4370
16 Pyrene	202	5.610	5.592	(0.850)	53065	1.09645	87.6198
17 Benzo(a)anthracene	228	6.593	6.558	(0.999)	42727	1.03135	82.4180
19 Chrysene	228	6.609	6.590	(1.002)	56902	1.35386	108.1899
20 Benzo(b)fluoranthene	252	7.410	7.381	(0.963)	81045	1.74560	139.4950(M)
21 Benzo(k)fluoranthene	252	7.421	7.402	(0.964)	31216	0.58478	46.7312(QM)
22 Benzo(a)pyrene	252	7.640	7.605	(0.992)	47909	1.03727	82.8908
24 Indeno(1,2,3-cd)pyrene	276	8.479	8.423	(1.101)	31747	0.72796	58.1734(M)
25 Dibenzo(a,h)anthracene	278	8.495	8.450	(1.103)	8503	0.20955	16.7456
26 Benzo(g,h,i)perylene	276	8.708	8.642	(1.131)	35737	0.73219	58.5108

QC Flag Legend

Q - Qualifier signal failed the ratio test.  
M - Compound response manually integrated.

Data File: 1AE01028.D

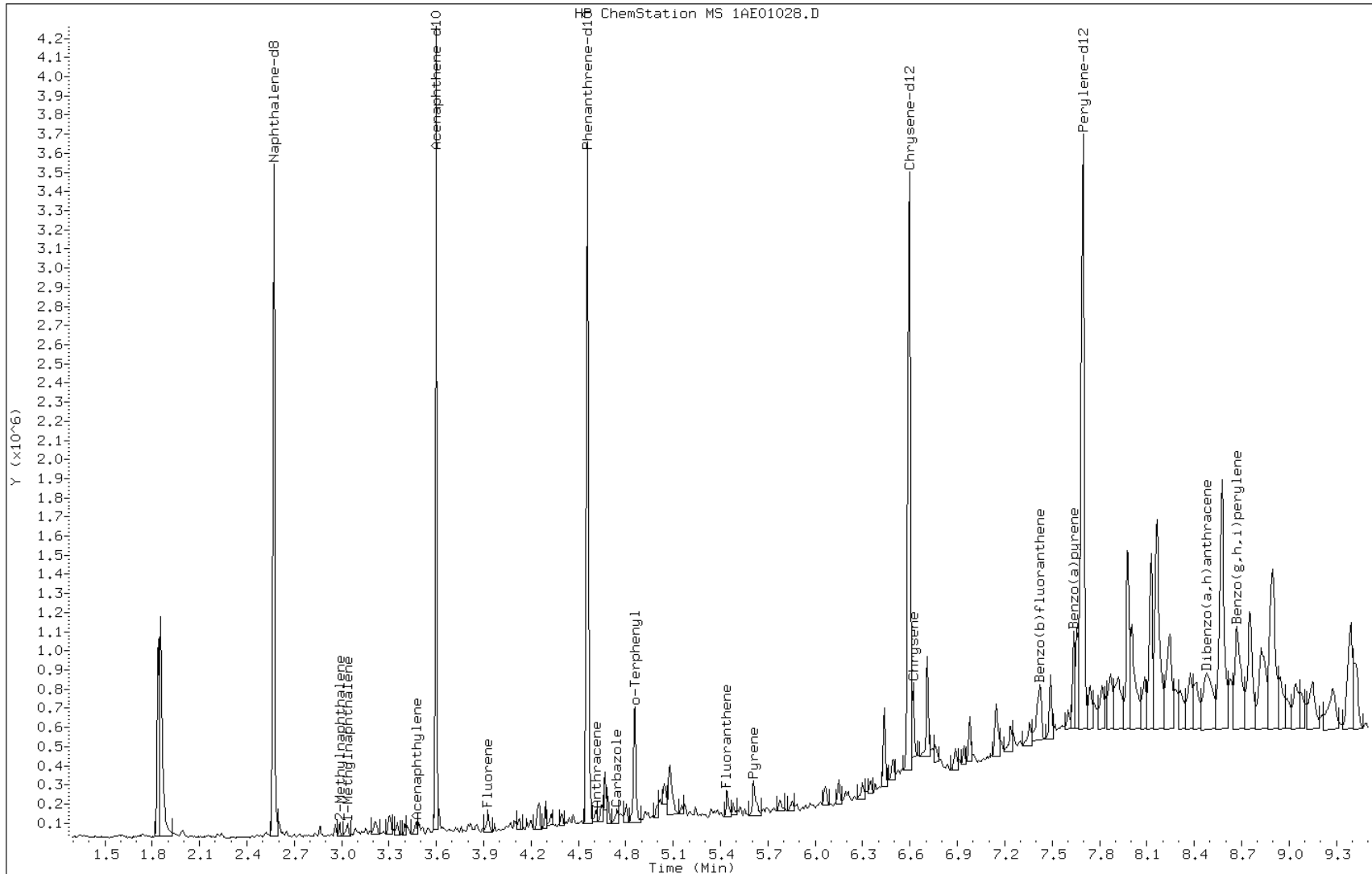
Date: 01-MAY-2013 19:48

Client ID: CV1336A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-10-a

Operator: SCC



Data File: 1AE01028.D

Date: 01-MAY-2013 19:48

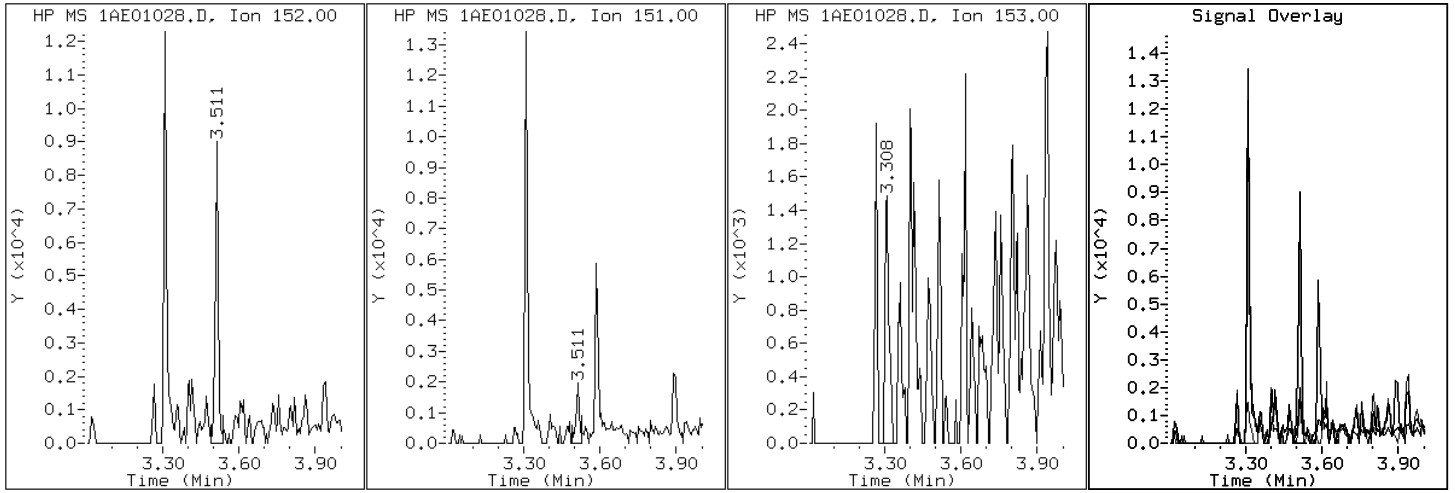
Client ID: CV1336A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-10-a

Operator: SCC

5 Acenaphthylene



Data File: 1AE01028.D

Date: 01-MAY-2013 19:48

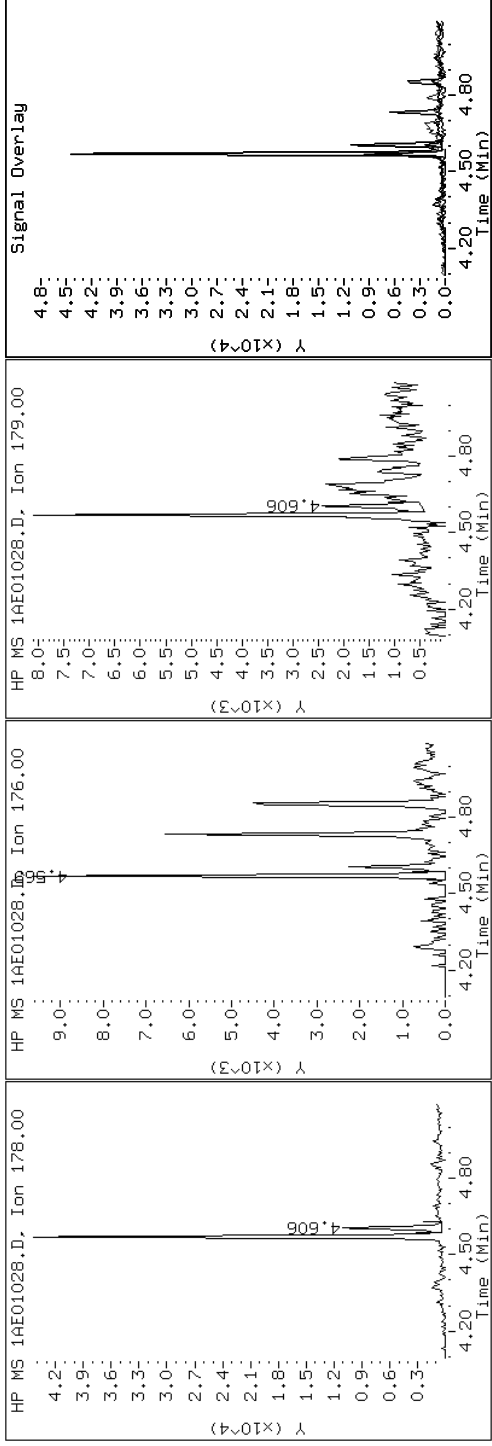
Client ID: CVI336A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-10-a

Operator: SCC

12 Anthracene



Data File: 1AE01028.D

Date: 01-MAY-2013 19:48

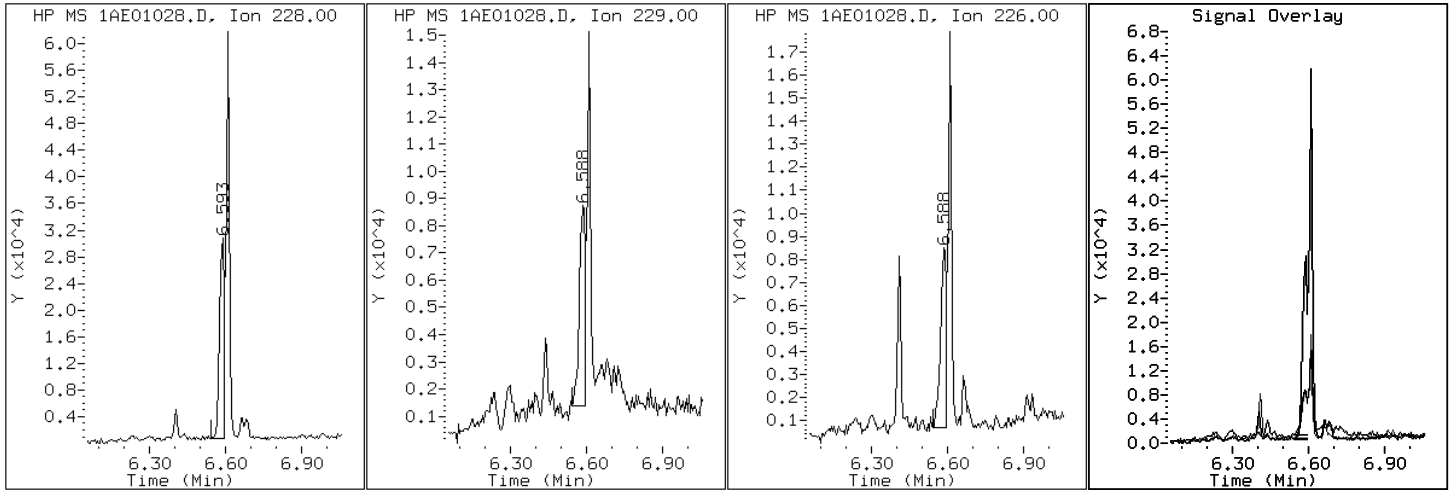
Client ID: CV1336A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-10-a

Operator: SCC

17 Benzo(a)anthracene





Data File: 1AE01028.D

Date: 01-MAY-2013 19:48

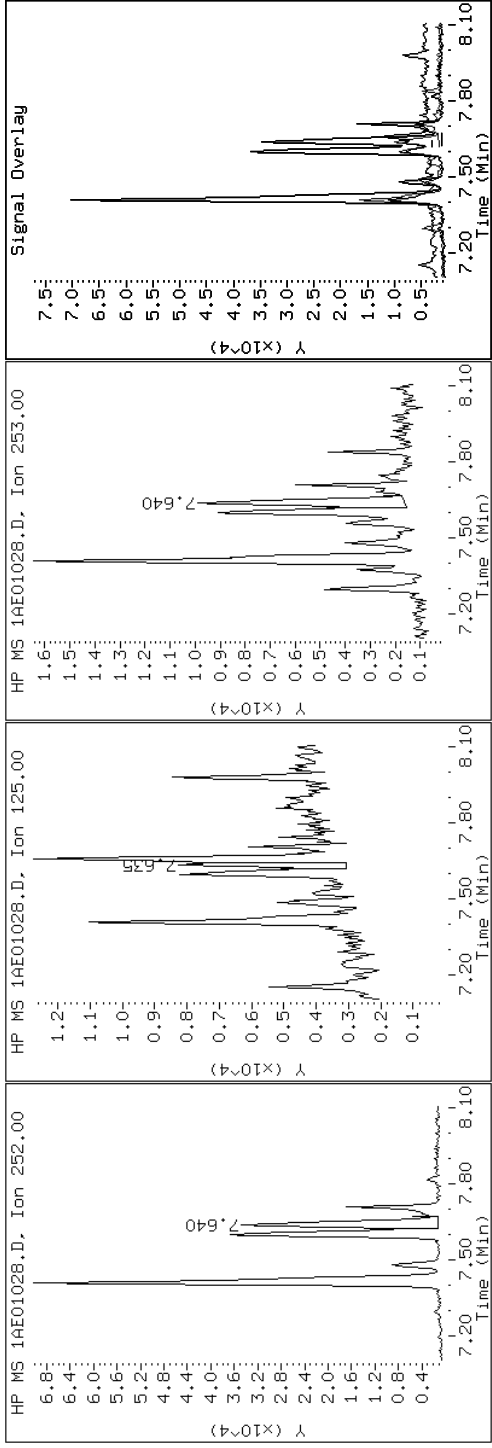
Client ID: CVI336A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-10-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AE01028.D

Date: 01-MAY-2013 19:48

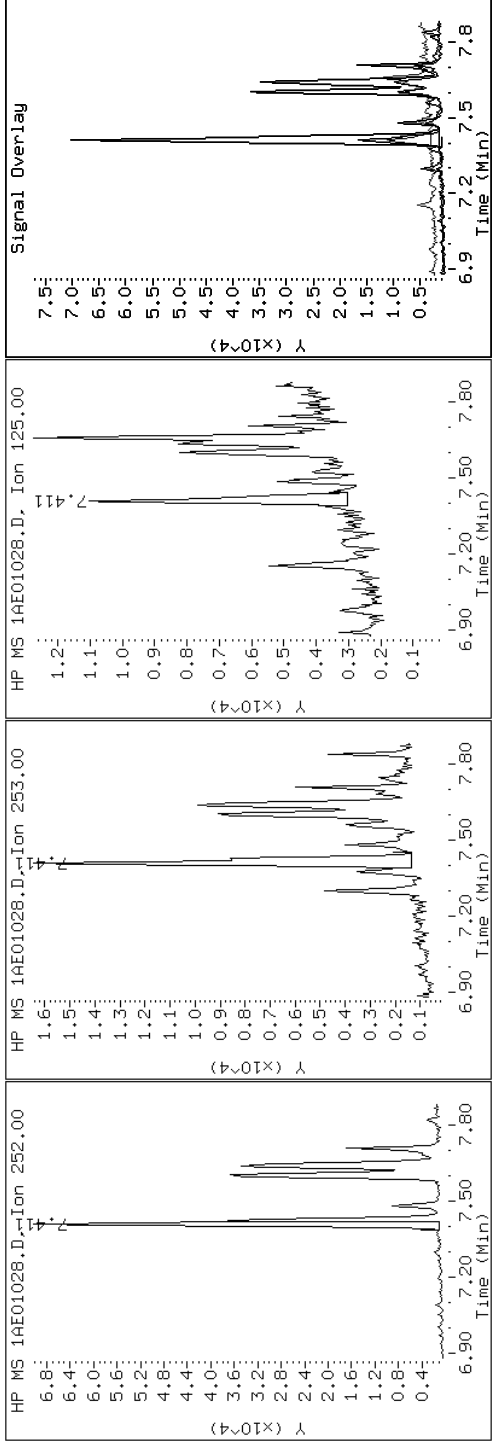
Client ID: CV1336A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-10-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AE01028.D

Date: 01-MAY-2013 19:48

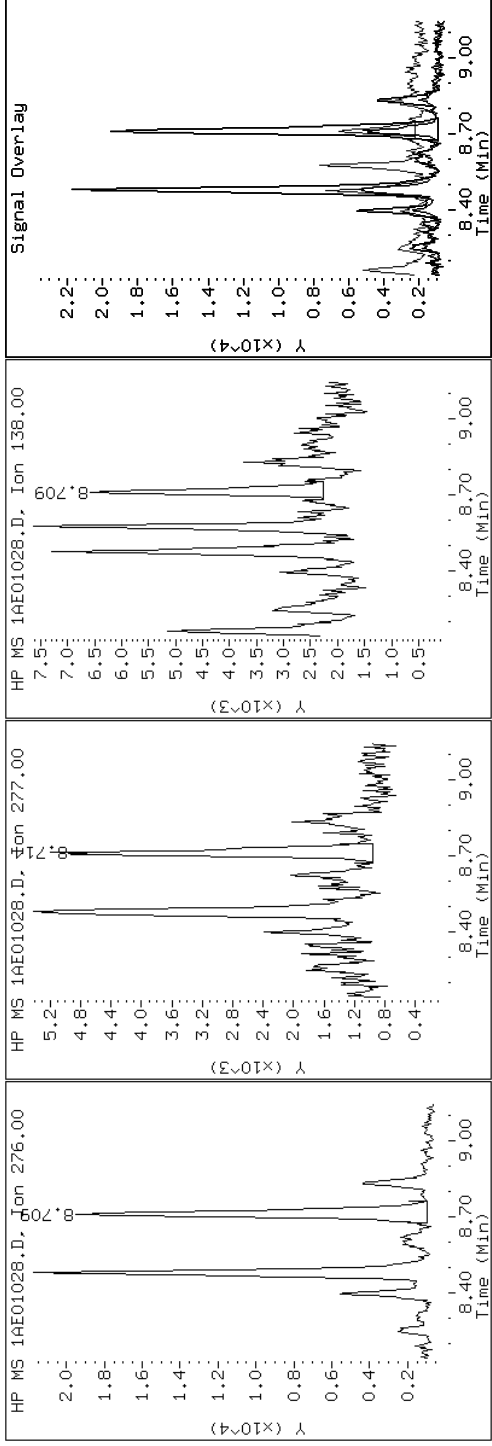
Client ID: CVI336A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-10-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AE01028.D

Date: 01-MAY-2013 19:48

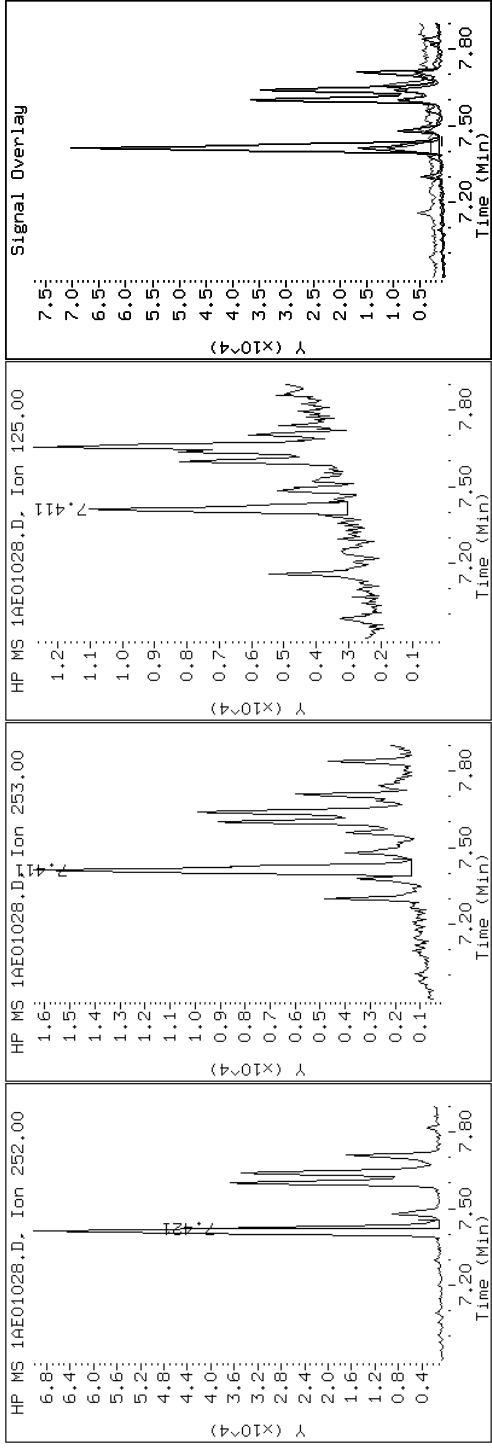
Client ID: CV1336A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-10-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AE01028.D

Date: 01-MAY-2013 19:48

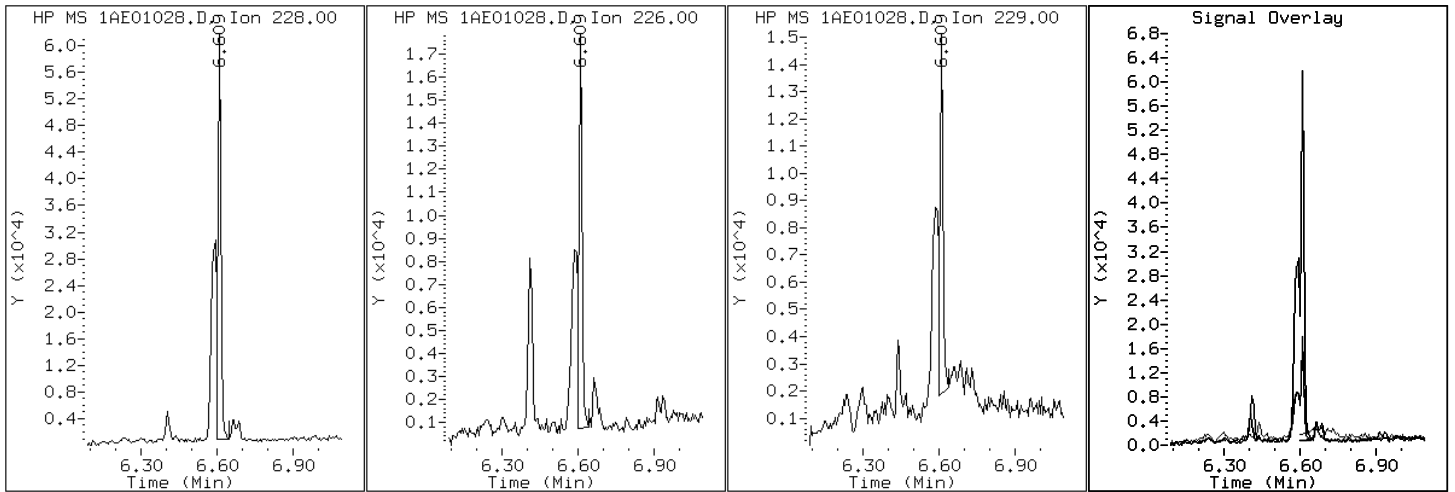
Client ID: CV1336A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-10-a

Operator: SCC

19 Chrysene



Data File: 1AE01028.D

Date: 01-MAY-2013 19:48

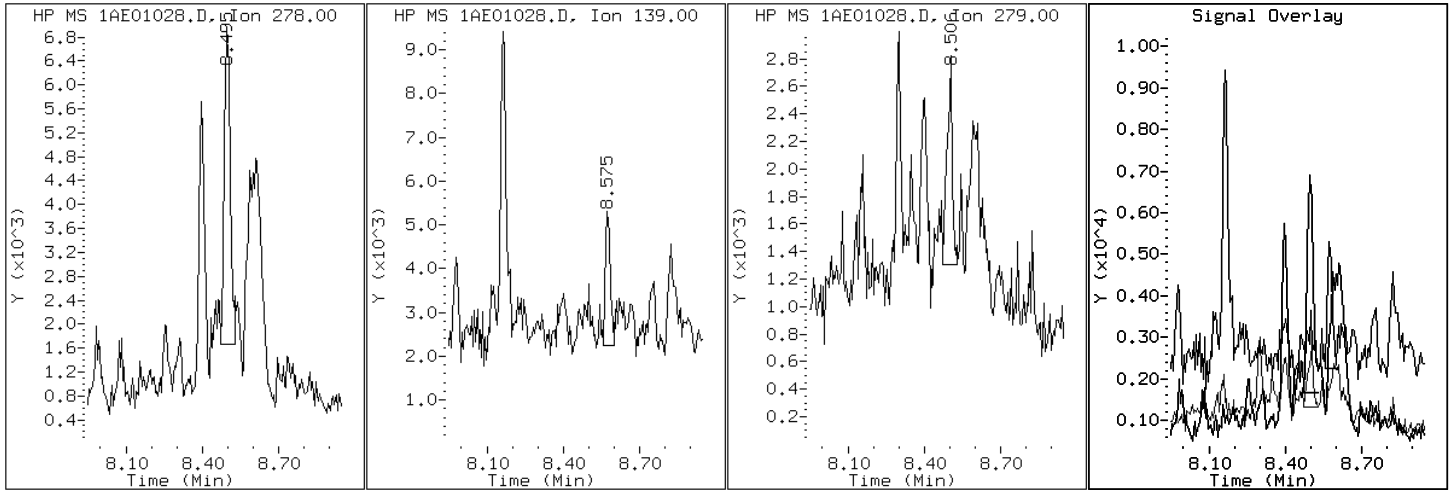
Client ID: CV1336A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-10-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AE01028.D

Date: 01-MAY-2013 19:48

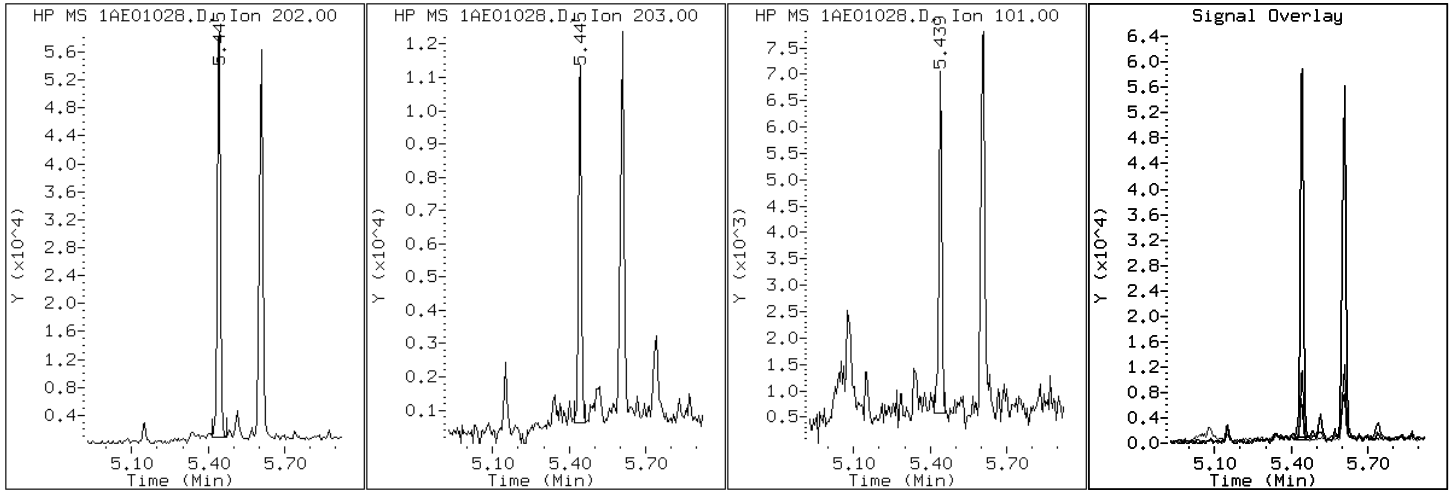
Client ID: CV1336A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-10-a

Operator: SCC

15 Fluoranthene



Data File: 1AE01028.D

Date: 01-MAY-2013 19:48

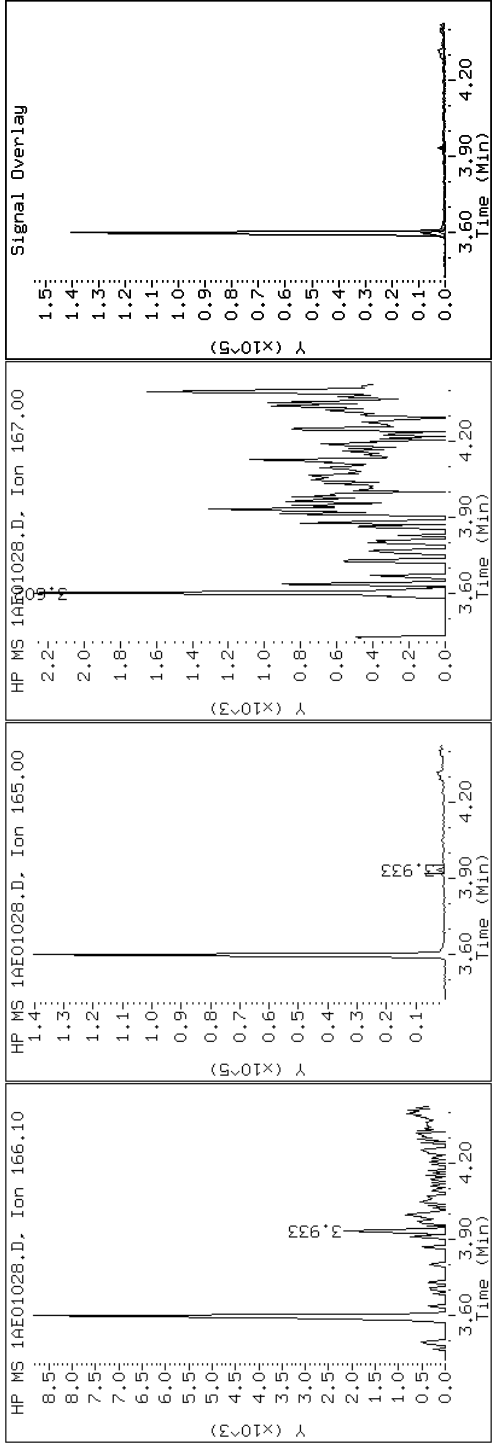
Client ID: CVI336A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-10-a

Operator: SCC

9 Fluorene





Data File: 1AE01028.D

Date: 01-MAY-2013 19:48

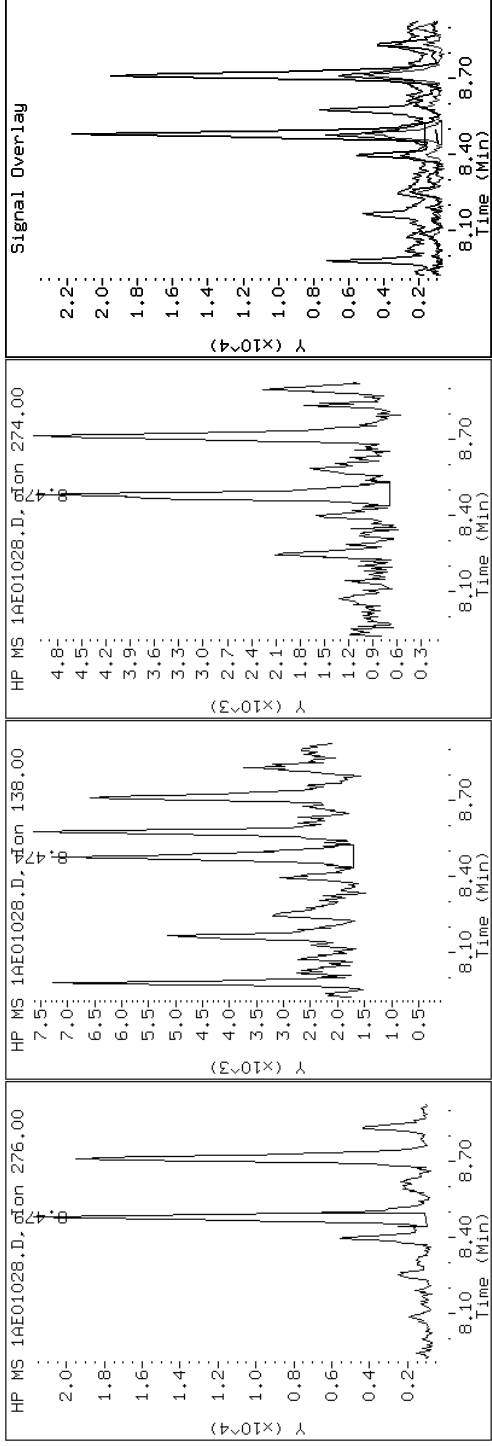
Client ID: CVI336A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-10-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



Data File: 1AE01028.D

Date: 01-MAY-2013 19:48

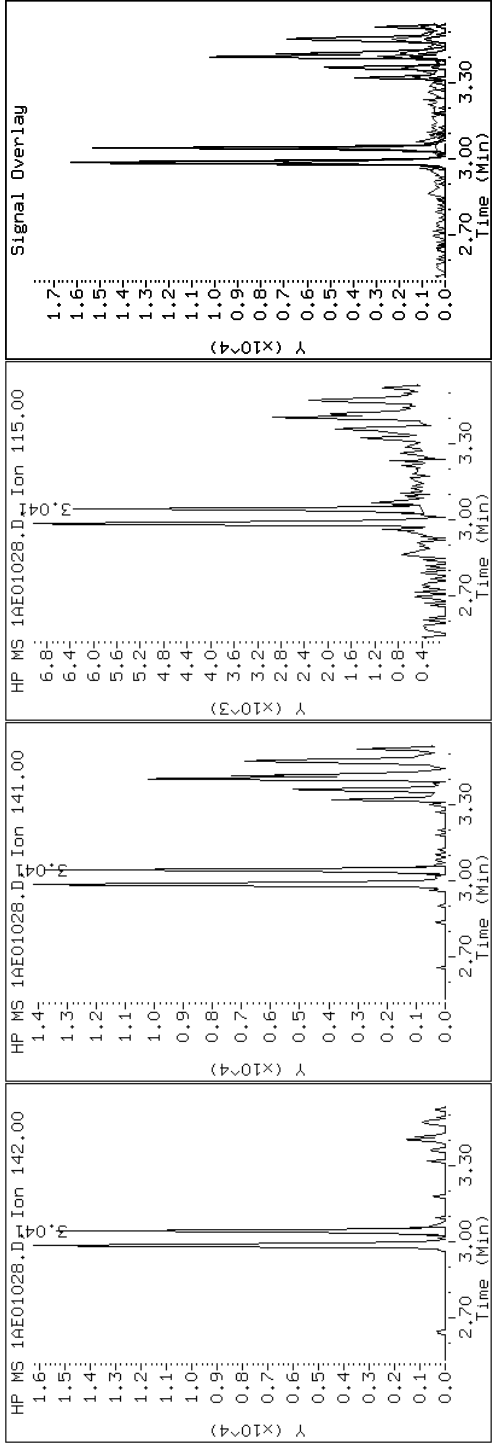
Client ID: CV1336A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-10-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE01028.D

Date: 01-MAY-2013 19:48

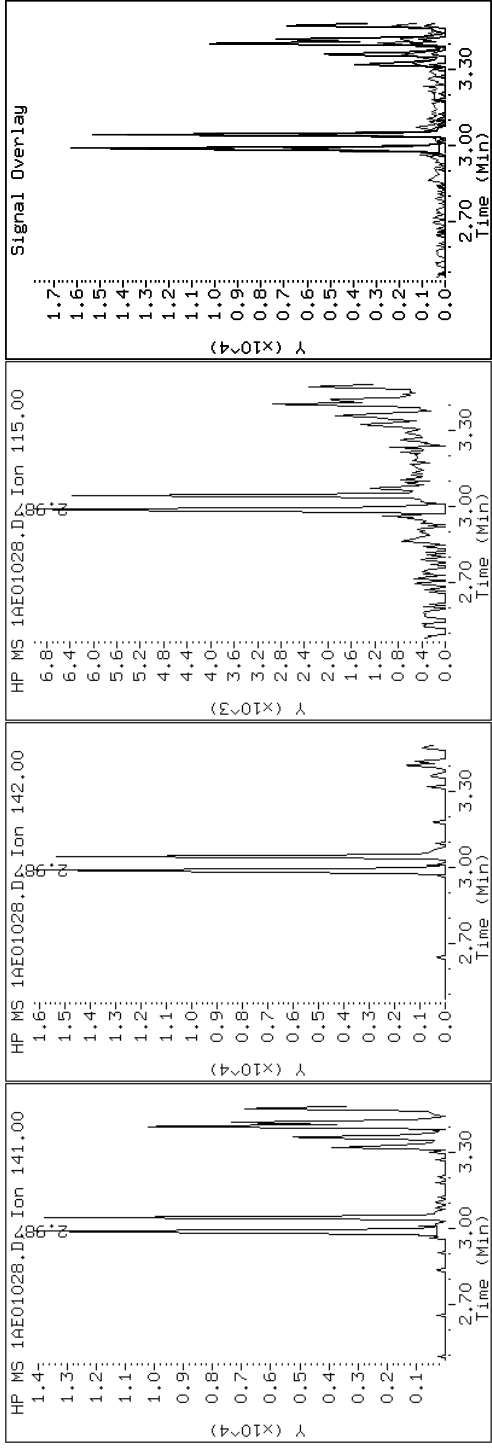
Client ID: CVI336A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-10-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AE01028.D

Date: 01-MAY-2013 19:48

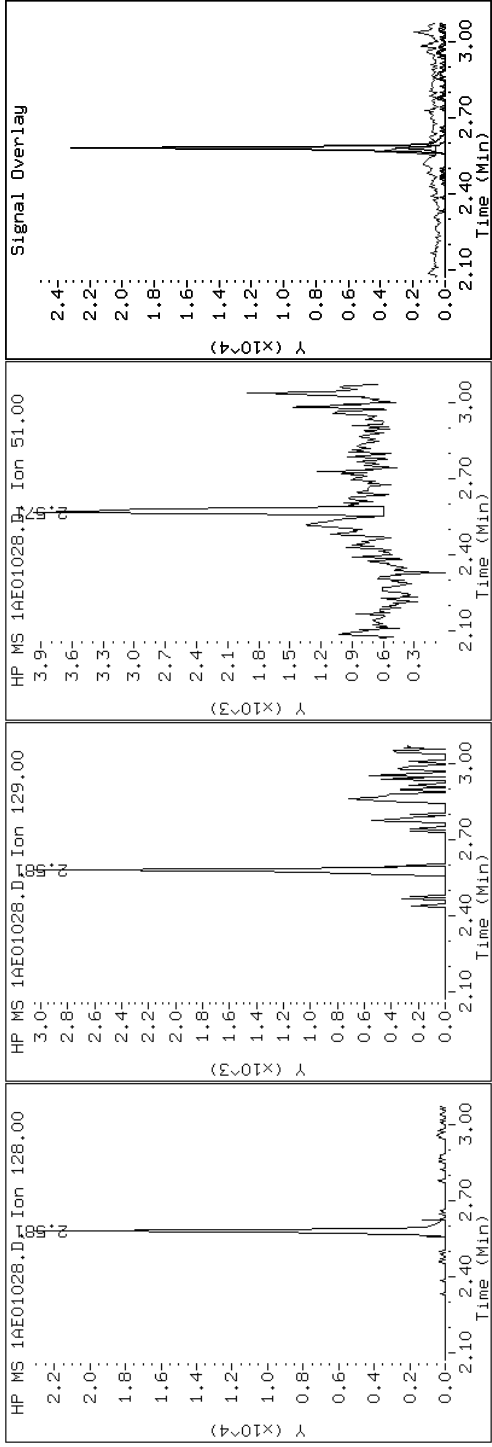
Client ID: CV1336A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-10-a

Operator: SCC

2 Naphthalene



Data File: 1AE01028.D

Date: 01-MAY-2013 19:48

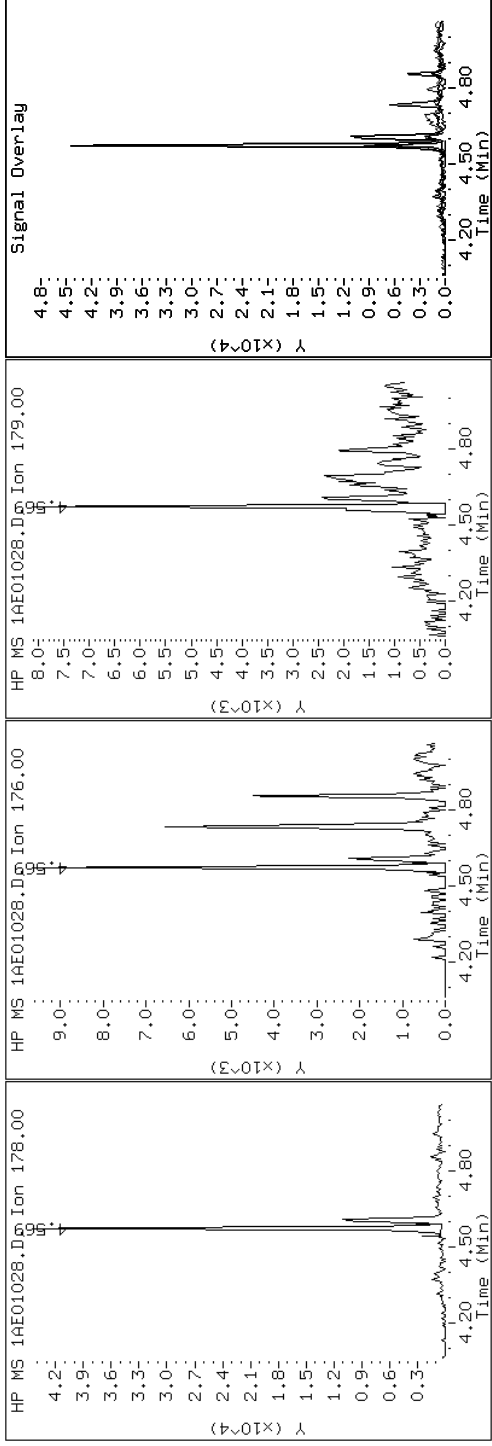
Client ID: CVI336A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-10-a

Operator: SCC

11 Phenanthrene



Data File: 1AE01028.D

Date: 01-MAY-2013 19:48

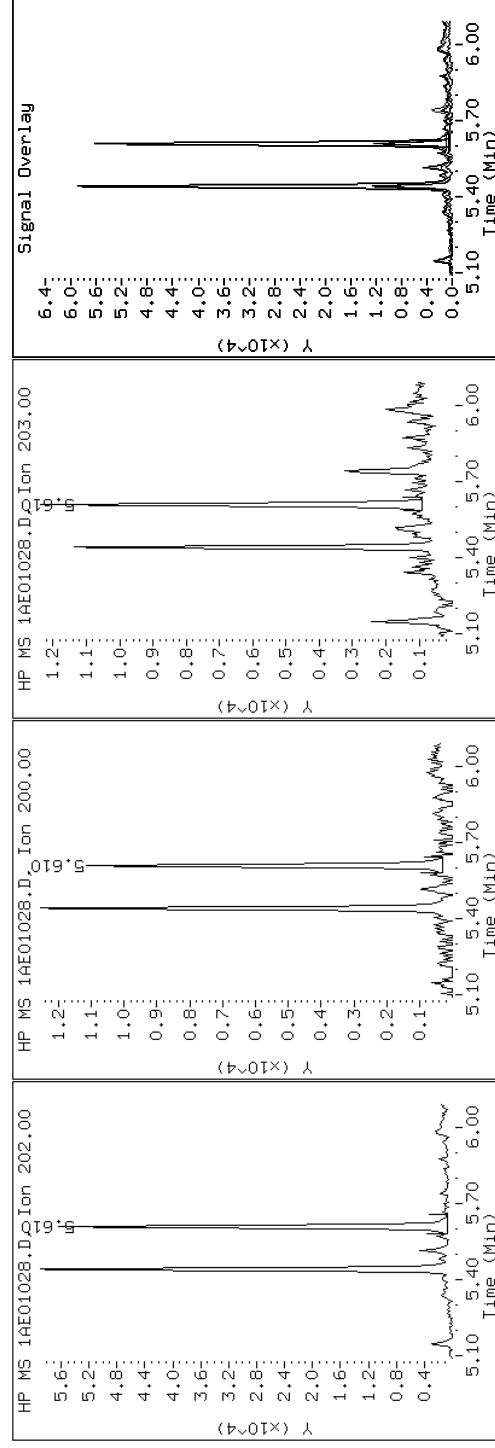
Client ID: CV1336A-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-10-a

Operator: SCC

16 Pyrene

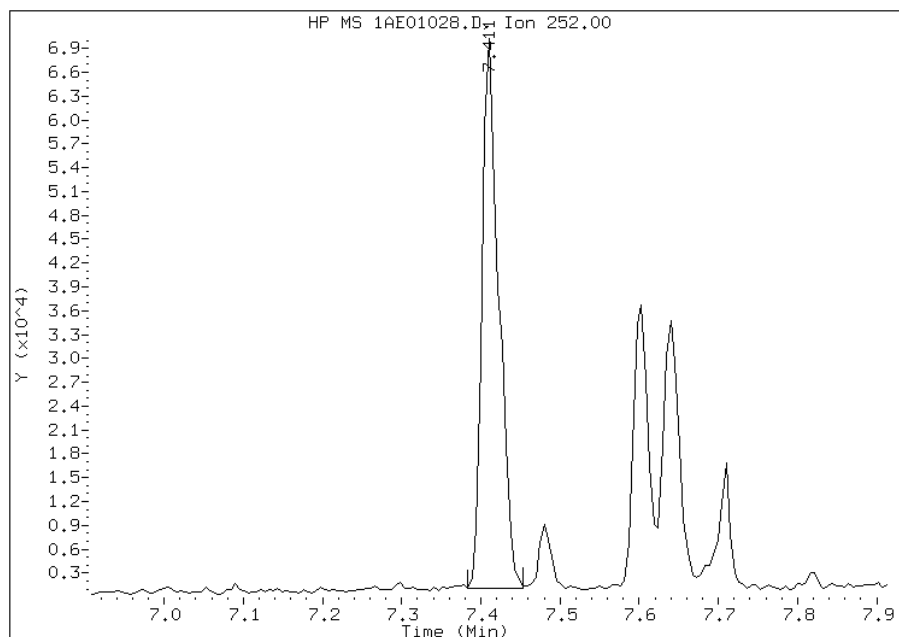


# Manual Integration Report

Data File: 1AE01028.D  
Inj. Date and Time: 01-MAY-2013 19:48  
Instrument ID: BSMA5973.i  
Client ID: CV1336A-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 05/05/2013

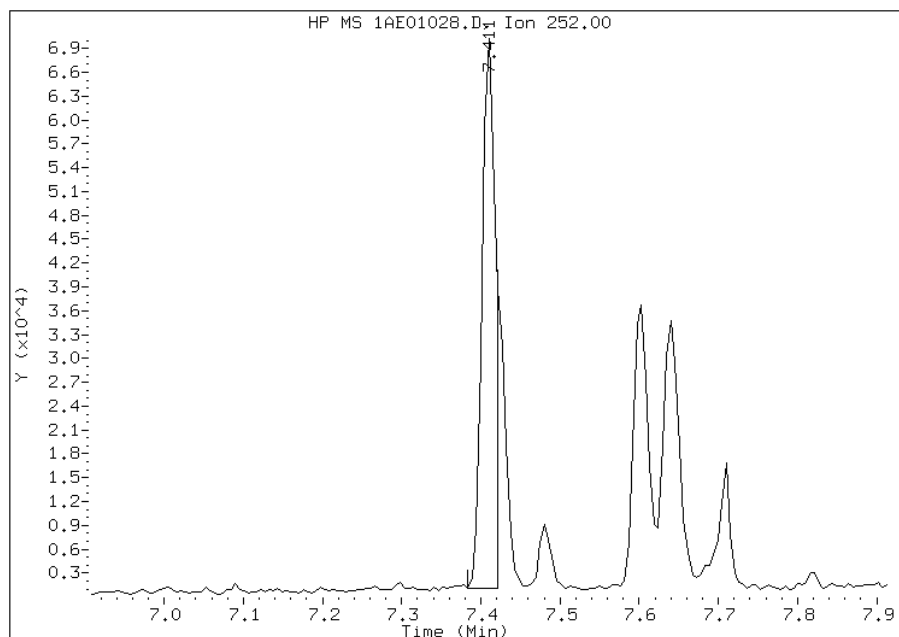
## Processing Integration Results

RT: 7.41  
Response: 100201  
Amount: 2  
Conc: 172



## Manual Integration Results

RT: 7.41  
Response: 81045  
Amount: 2  
Conc: 139



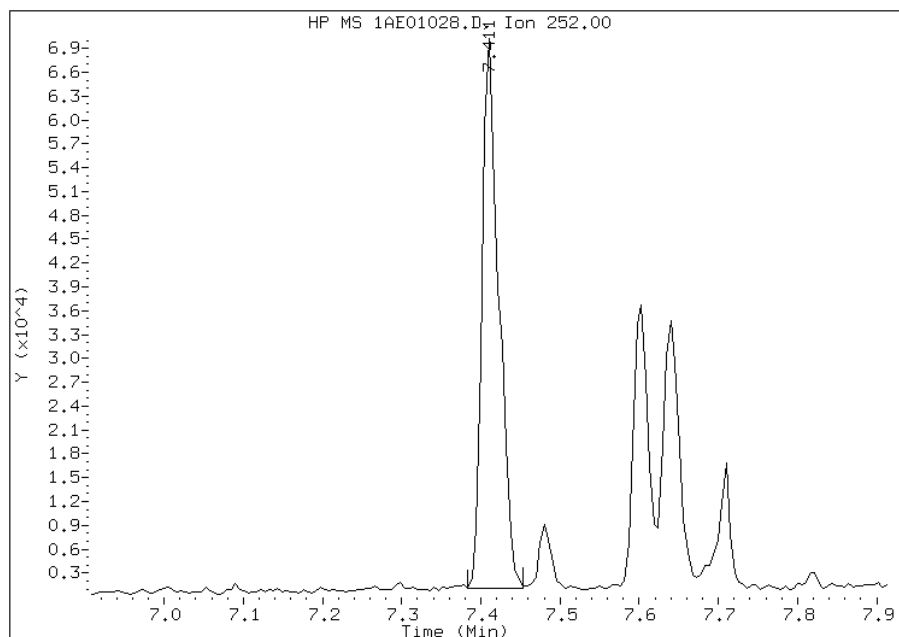
Manually Integrated By: cantins  
Modification Date: 05-May-2013 18:38  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AE01028.D  
Inj. Date and Time: 01-MAY-2013 19:48  
Instrument ID: BSMA5973.i  
Client ID: CV1336A-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 05/05/2013

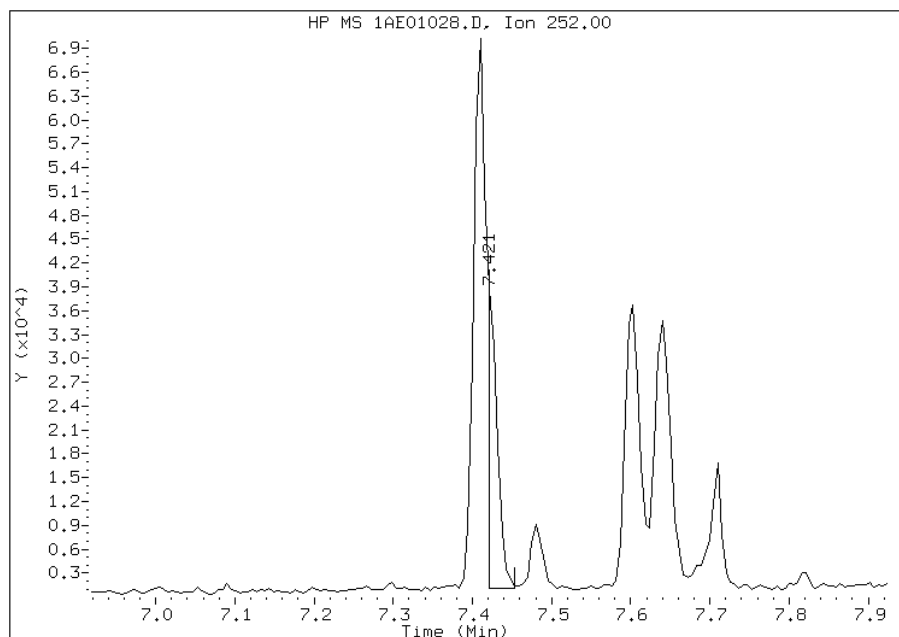
## Processing Integration Results

RT: 7.41  
Response: 100201  
Amount: 2  
Conc: 150



## Manual Integration Results

RT: 7.42  
Response: 31216  
Amount: 1  
Conc: 47



Manually Integrated By: cantins  
Modification Date: 05-May-2013 18:38  
Manual Integration Reason: Baseline Event

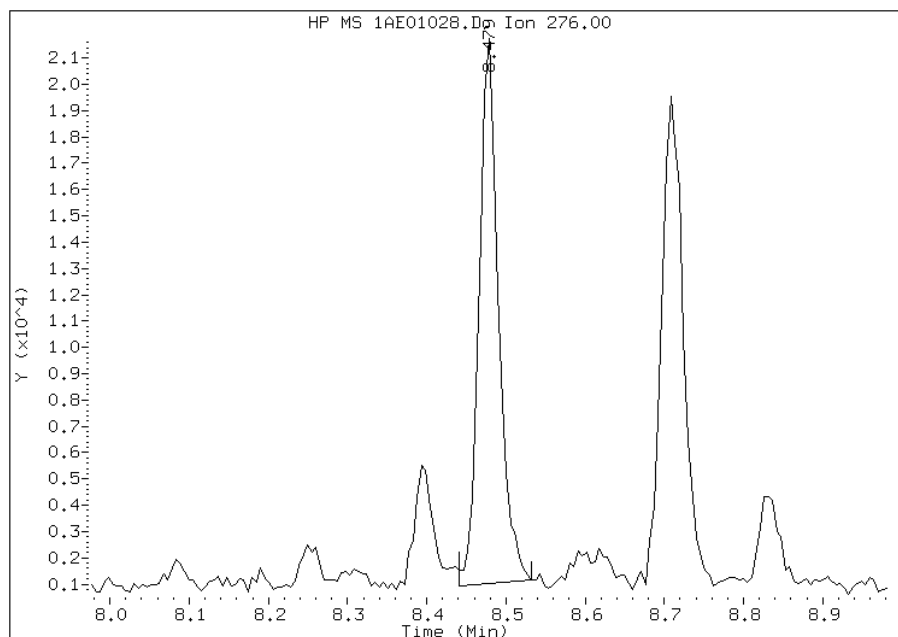


# Manual Integration Report

Data File: 1AE01028.D  
Inj. Date and Time: 01-MAY-2013 19:48  
Instrument ID: BSMA5973.i  
Client ID: CV1336A-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/05/2013

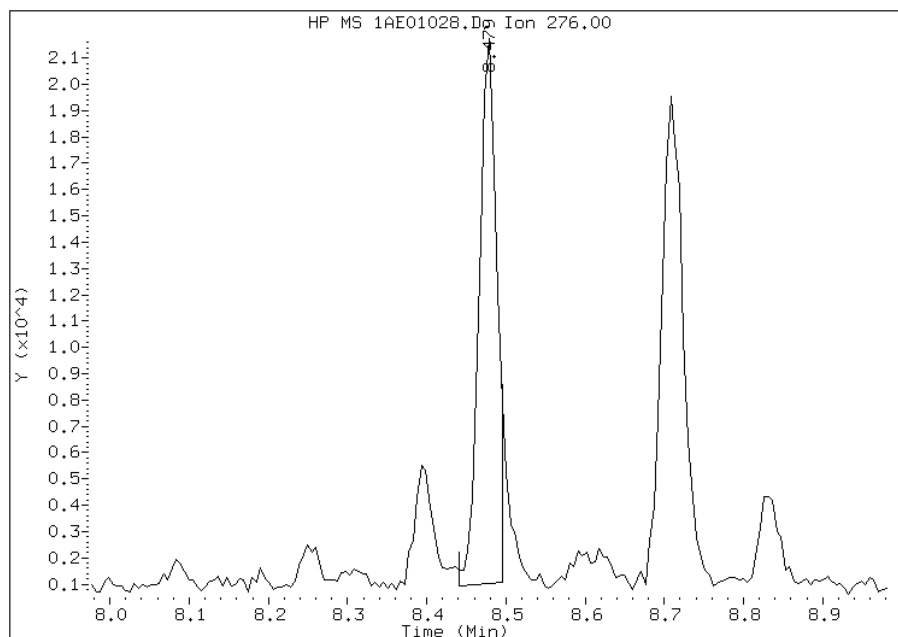
## Processing Integration Results

RT: 8.48  
Response: 34932  
Amount: 1  
Conc: 64



## Manual Integration Results

RT: 8.48  
Response: 31747  
Amount: 1  
Conc: 58



Manually Integrated By: cantins  
Modification Date: 05-May-2013 18:38  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: CV1336A-CSD Lab Sample ID: 680-89791-11  
 Matrix: Solid Lab File ID: 1AE01029.D  
 Analysis Method: 8270C LL Date Collected: 04/24/2013 09:20  
 Extract. Method: 3546 Date Extracted: 04/29/2013 14:27  
 Sample wt/vol: 15.00(g) Date Analyzed: 05/01/2013 20:03  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 17.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137001 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	18	J	48	6.0
120-12-7	Anthracene	25		10	5.1
56-55-3	Benzo[a]anthracene	97		9.6	4.7
50-32-8	Benzo[a]pyrene	110		13	6.3
205-99-2	Benzo[b]fluoranthene	190		15	7.4
191-24-2	Benzo[g,h,i]perylene	76		24	5.3
207-08-9	Benzo[k]fluoranthene	49		9.6	4.3
218-01-9	Chrysene	140		11	5.4
53-70-3	Dibenz(a,h)anthracene	17	J	24	4.9
206-44-0	Fluoranthene	150		24	4.8
86-73-7	Fluorene	5.5	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	75		24	8.6
90-12-0	1-Methylnaphthalene	41	J	48	5.3
91-57-6	2-Methylnaphthalene	52		48	8.6
91-20-3	Naphthalene	47	J	48	5.3
85-01-8	Phenanthrene	95		9.6	4.7
129-00-0	Pyrene	110		24	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	58		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01029.D  
 Lab Smp Id: 680-89791-A-11-A Client Smp ID: CV1336A-CSD  
 Inj Date : 01-MAY-2013 20:03  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-89791-a-11-a  
 Misc Info : 680-89791-A-11-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01029.D  
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 26  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	17.007	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.570	2.563	(1.000)	1318779	40.0000	
* 6 Acenaphthene-d10	164		3.601	3.594	(1.000)	691258	40.0000	
* 10 Phenanthrene-d10	188		4.557	4.544	(1.000)	1061707	40.0000	
\$ 14 o-Terphenyl	230		4.856	4.844	(1.066)	100647	5.79573	465.5582
* 18 Chrysene-d12	240		6.598	6.574	(1.000)	1220777	40.0000	
* 23 Perylene-d12	264		7.698	7.659	(1.000)	1433010	40.0000	
2 Naphthalene	128		2.580	2.573	(1.004)	19194	0.58222	46.7687
3 2-Methylnaphthalene	141		2.986	2.979	(1.162)	12320	0.65183	52.3602
4 1-Methylnaphthalene	142		3.040	3.033	(1.183)	10583	0.50539	40.5968
5 Acenaphthylene	152		3.510	3.503	(0.975)	8857	0.21924	17.6109
9 Fluorene	166		3.932	3.925	(1.092)	1733	0.06799	5.4612(Q)
11 Phenanthrene	178		4.573	4.560	(1.004)	36388	1.18314	95.0388
12 Anthracene	178		4.605	4.593	(1.011)	10138	0.31702	25.4654
13 Carbazole	167		4.744	4.726	(1.041)	6923	0.22441	18.0262

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	5.444	5.426	(1.195)	64230	1.80811	145.2414
16 Pyrene	202	5.609	5.592	(0.850)	62719	1.34667	108.1748
17 Benzo(a)anthracene	228	6.587	6.558	(0.998)	47916	1.20190	96.5457
19 Chrysene	228	6.614	6.590	(1.002)	68596	1.69600	136.2356
20 Benzo(b)fluoranthene	252	7.410	7.381	(0.963)	103032	2.36826	190.2374(M)
21 Benzo(k)fluoranthene	252	7.426	7.402	(0.965)	30233	0.60442	48.5514(QM)
22 Benzo(a)pyrene	252	7.639	7.605	(0.992)	57866	1.33702	107.3999
24 Indeno(1,2,3-cd)pyrene	276	8.478	8.423	(1.101)	38191	0.93456	75.0713(M)
25 Dibenzo(a,h)anthracene	278	8.505	8.450	(1.105)	8161	0.21463	17.2410
26 Benzo(g,h,i)perylene	276	8.718	8.642	(1.133)	43192	0.94438	75.8599

QC Flag Legend

Q - Qualifier signal failed the ratio test.  
M - Compound response manually integrated.

Data File: 1AE01029.D

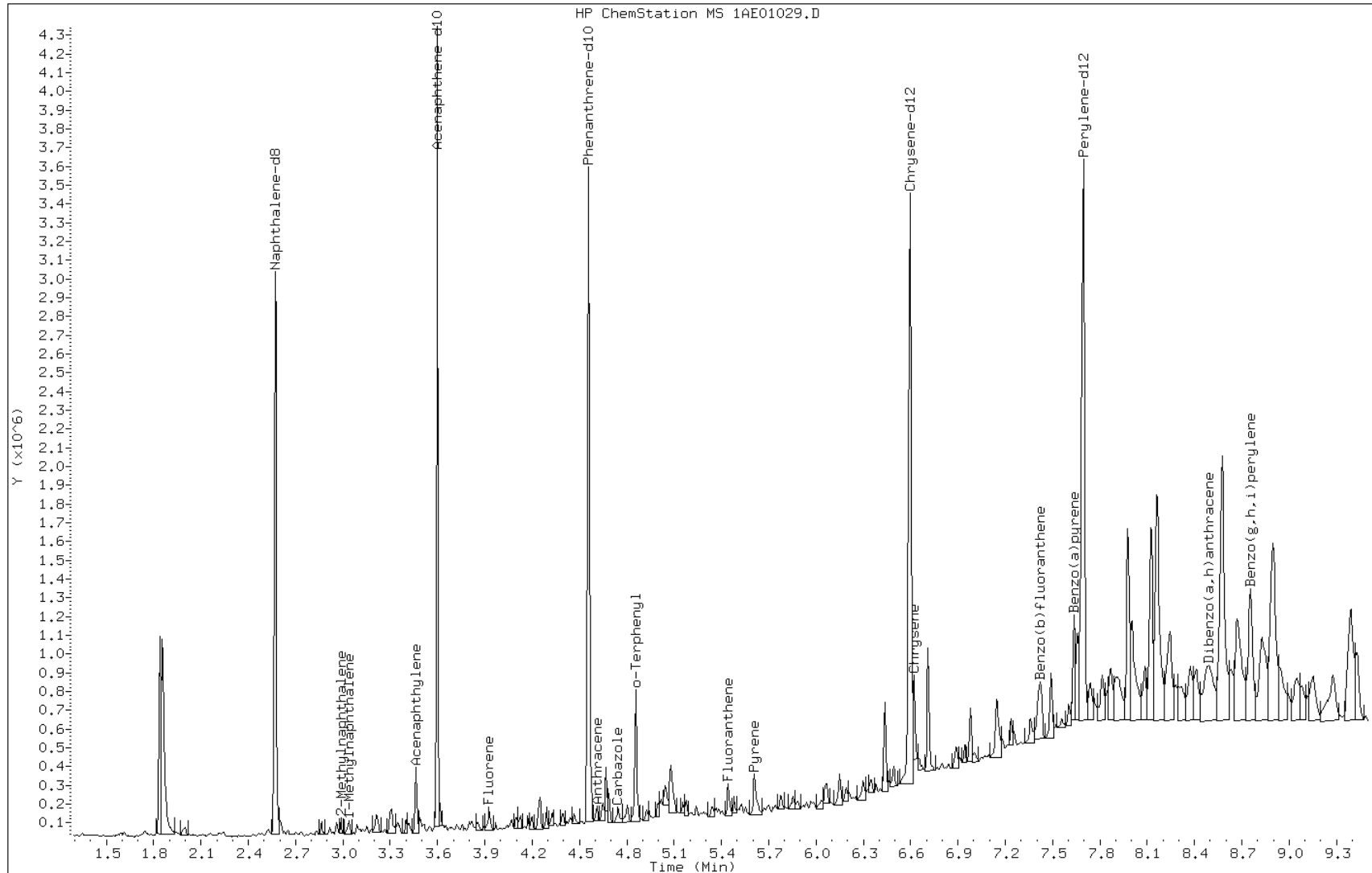
Date: 01-MAY-2013 20:03

Client ID: CV1336A-CSD

Instrument: BSMA5973.i

Sample Info: 680-89791-a-11-a

Operator: SCC



Data File: 1AE01029.D

Date: 01-MAY-2013 20:03

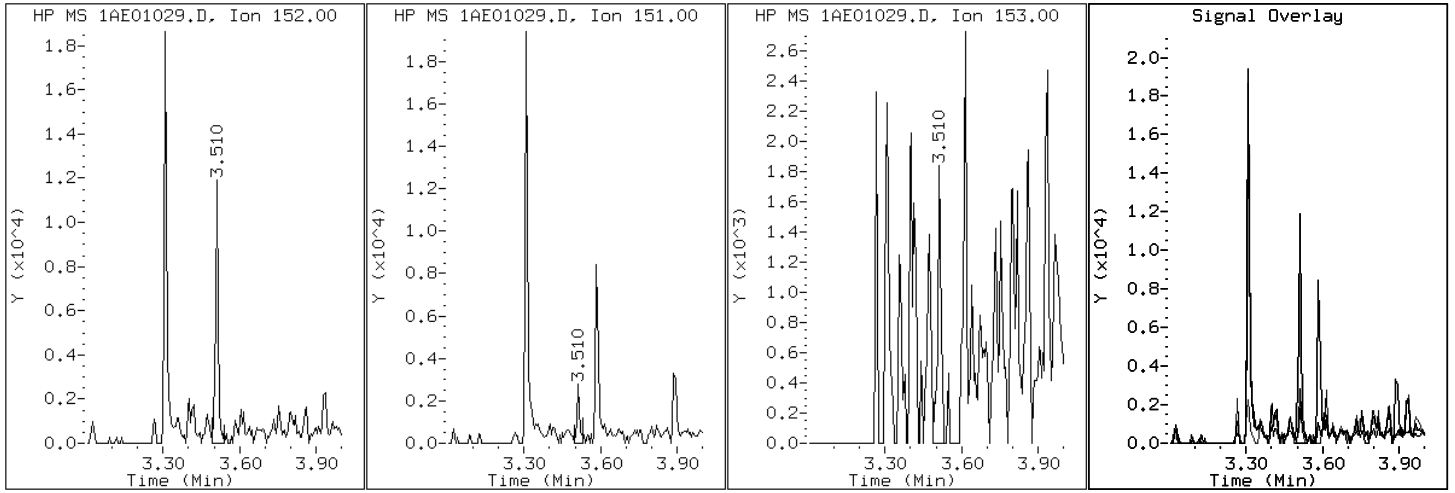
Client ID: CV1336A-CSD

Instrument: BSMA5973.i

Sample Info: 680-89791-a-11-a

Operator: SCC

5 Acenaphthylene



Data File: 1AE01029.D

Date: 01-MAY-2013 20:03

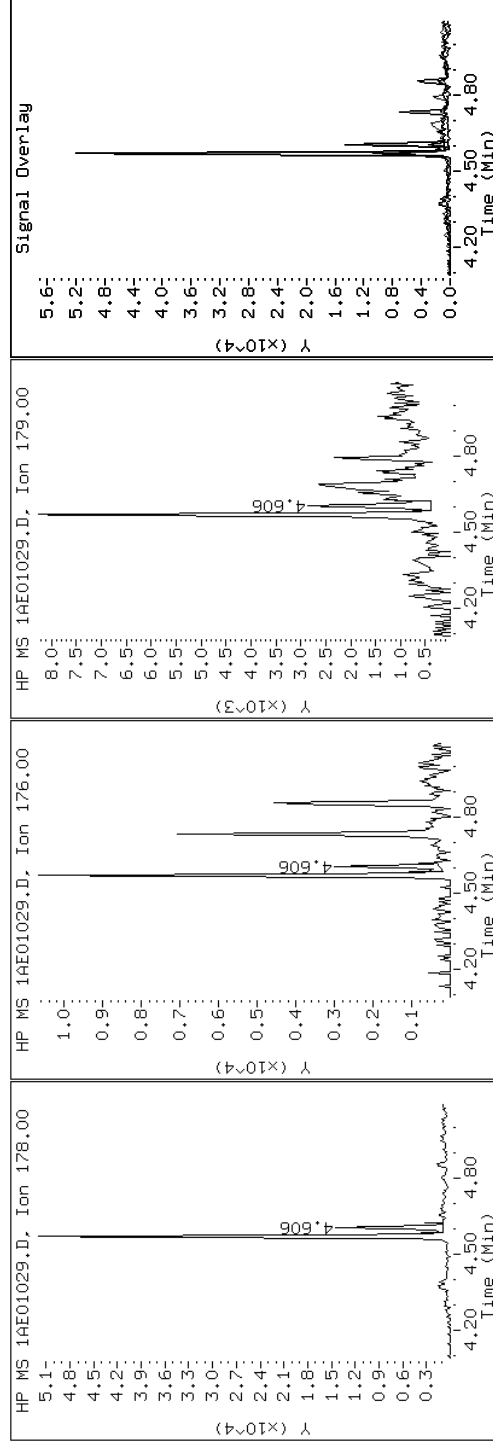
Client ID: CVI336A-CSD

Instrument: BSMA5973.i

Sample Info: 680-89791-a-11-a

Operator: SCC

### 12 Anthracene



Data File: 1AE01029.D

Date: 01-MAY-2013 20:03

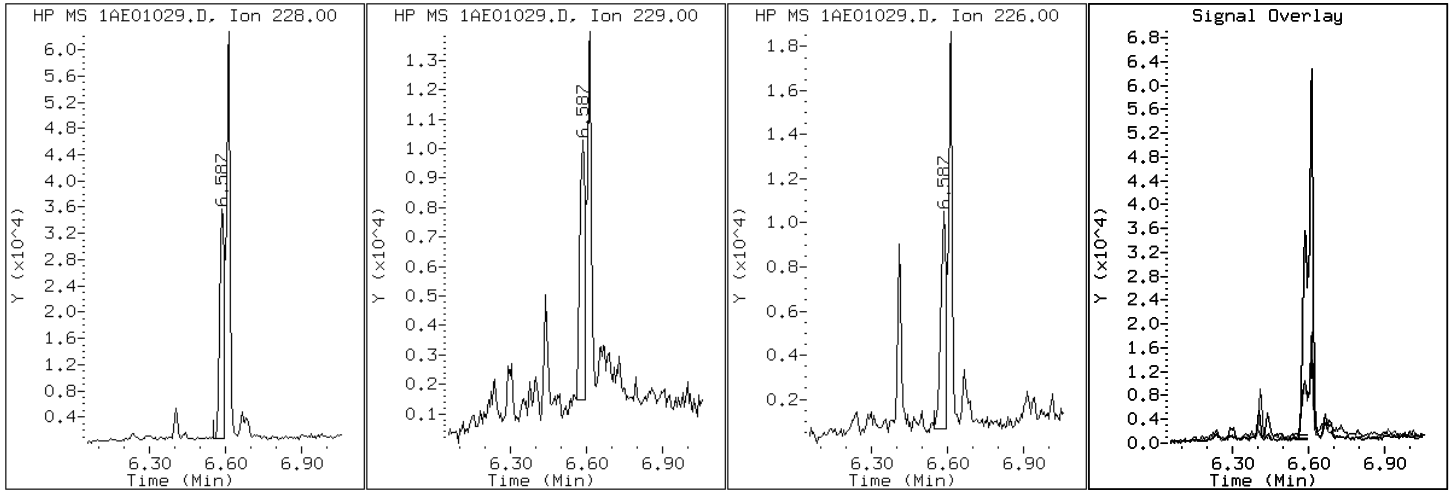
Client ID: CV1336A-CSD

Instrument: BSMA5973.i

Sample Info: 680-89791-a-11-a

Operator: SCC

17 Benzo(a)anthracene





Data File: 1AE01029.D

Date: 01-MAY-2013 20:03

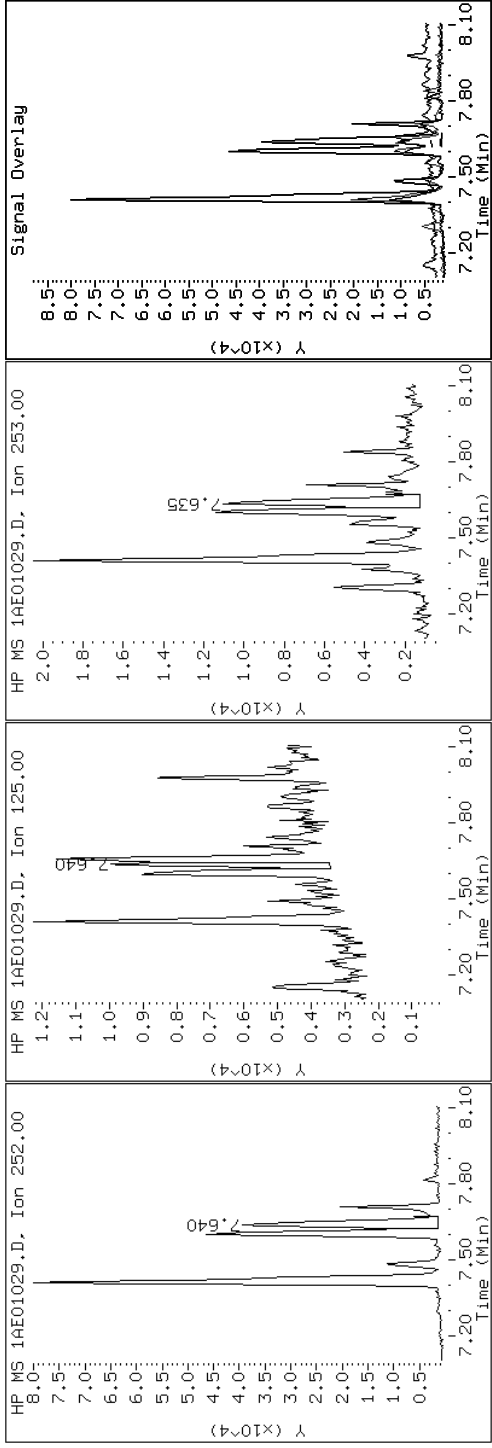
Client ID: CVI336A-CSD

Instrument: BSMA5973.i

Sample Info: 680-89791-a-11-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AE01029.D

Date: 01-MAY-2013 20:03

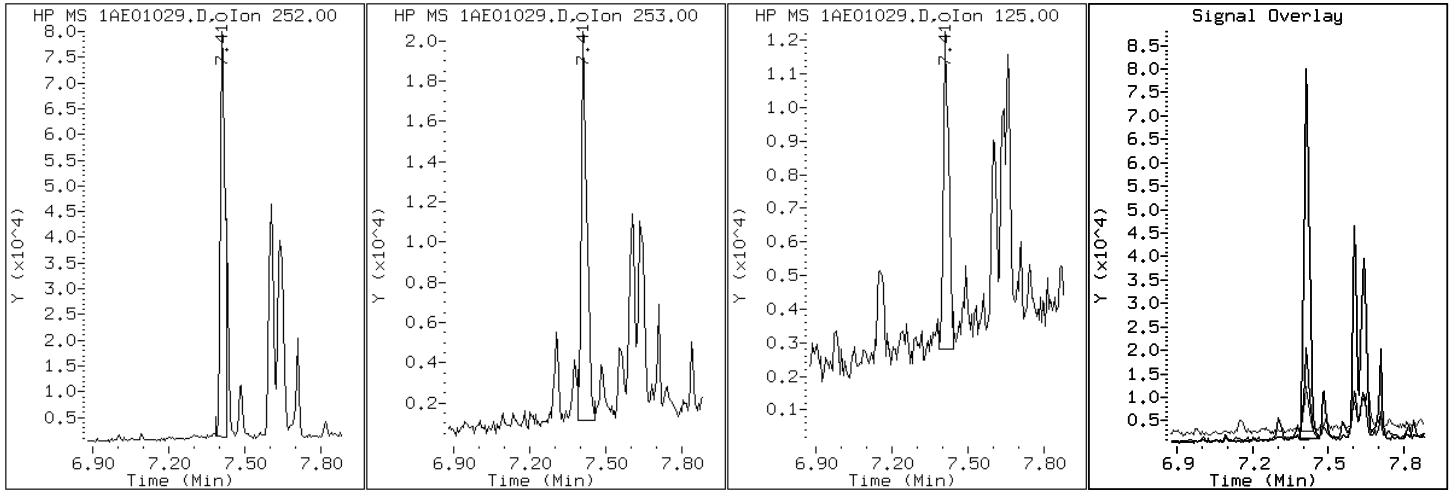
Client ID: CV1336A-CSD

Instrument: BSMA5973.i

Sample Info: 680-89791-a-11-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AE01029.D

Date: 01-MAY-2013 20:03

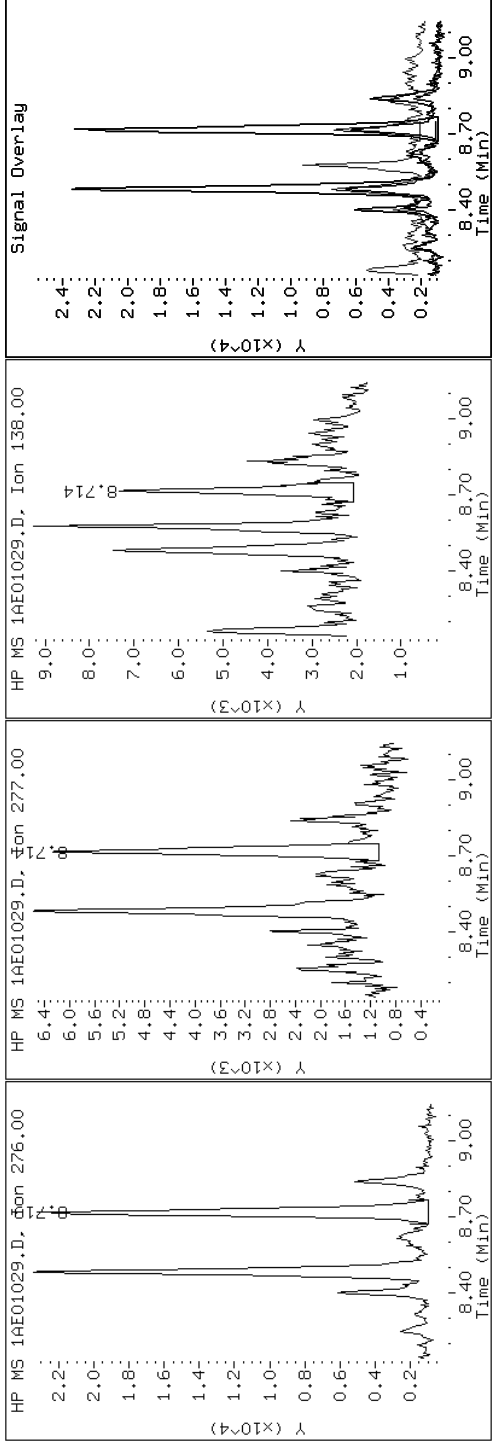
Client ID: CV1336A-CSD

Instrument: BSMA5973.i

Sample Info: 680-89791-a-11-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AE01029.D

Date: 01-MAY-2013 20:03

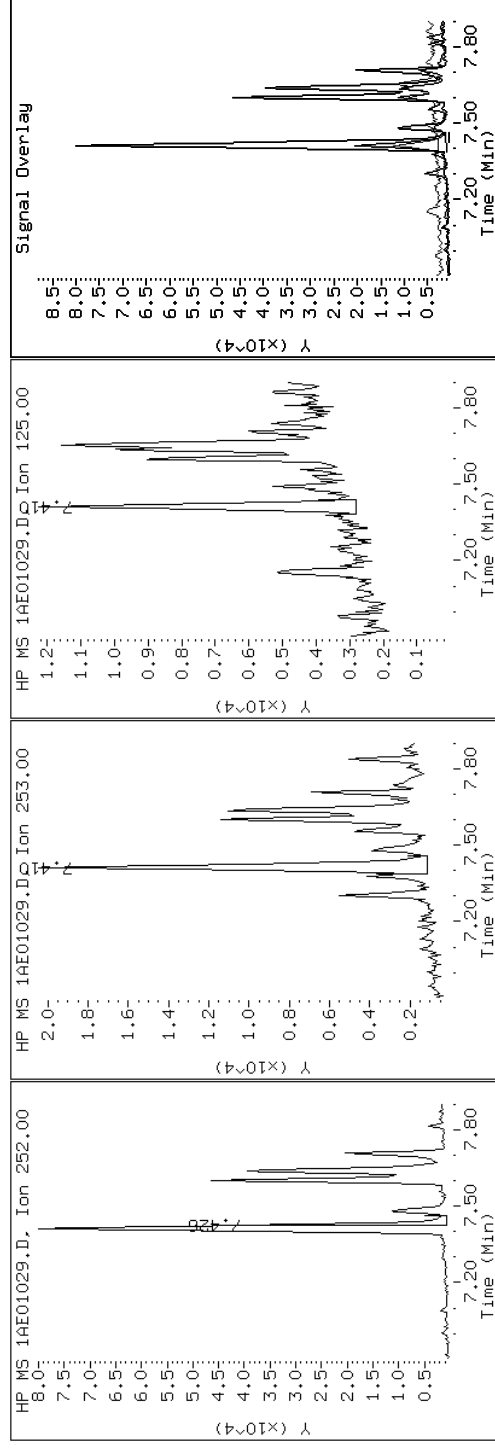
Client ID: CVI336A-CSD

Instrument: BSMA5973.i

Sample Info: 680-89791-a-11-a

Operator: SCC

### 21 Benzo(k)fluoranthene



Data File: 1AE01029.D

Date: 01-MAY-2013 20:03

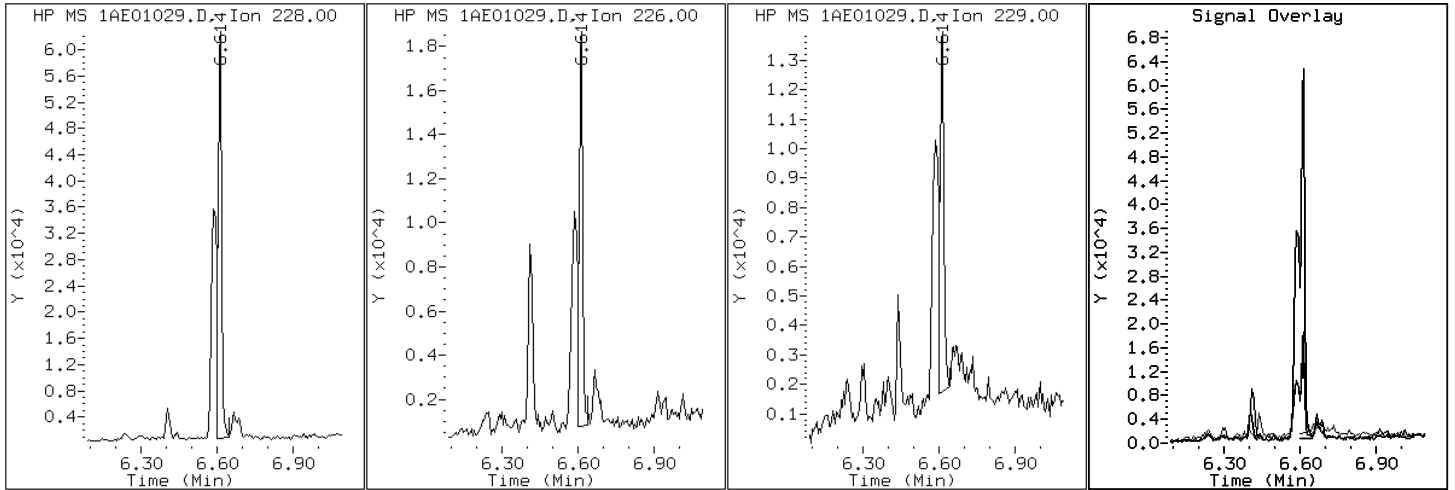
Client ID: CV1336A-CSD

Instrument: BSMA5973.i

Sample Info: 680-89791-a-11-a

Operator: SCC

19 Chrysene



Data File: 1AE01029.D

Date: 01-MAY-2013 20:03

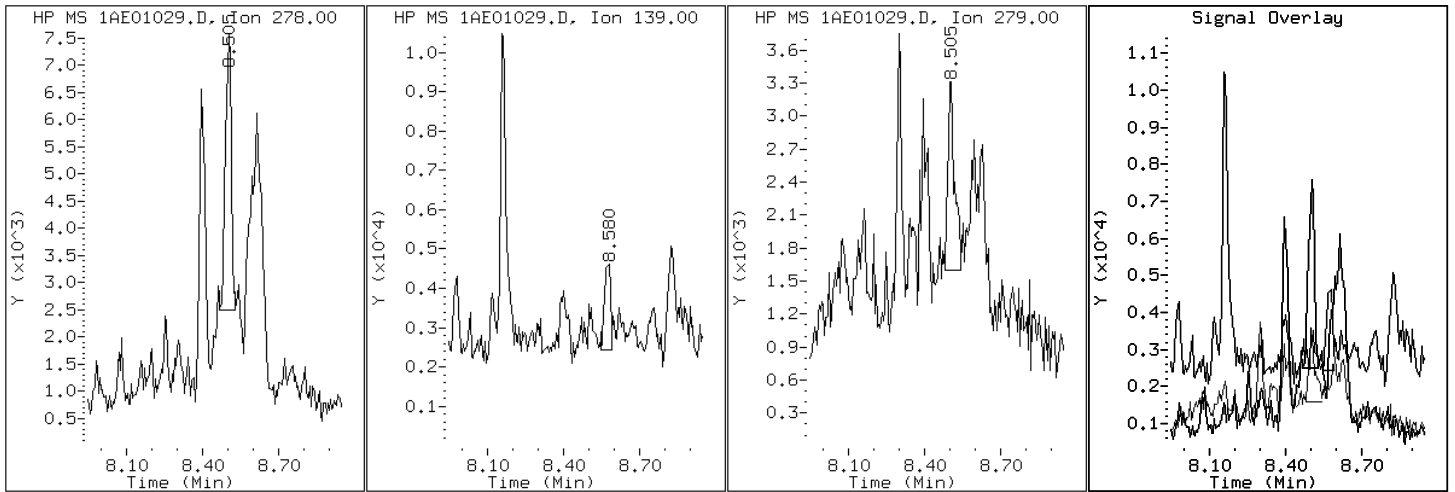
Client ID: CV1336A-CSD

Instrument: BSMA5973.i

Sample Info: 680-89791-a-11-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AE01029.D

Date: 01-MAY-2013 20:03

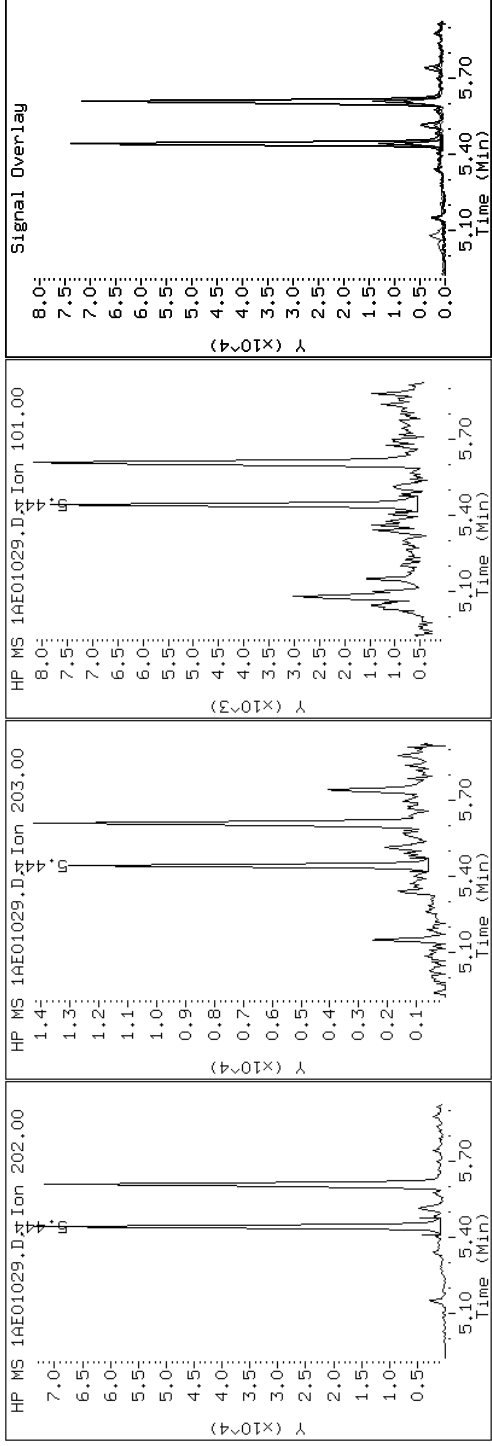
Client ID: CV1336A-CSD

Instrument: BSMA5973.i

Sample Info: 680-89791-a-11-a

Operator: SCC

15 Fluoranthene



Data File: 1AE01029.D

Date: 01-MAY-2013 20:03

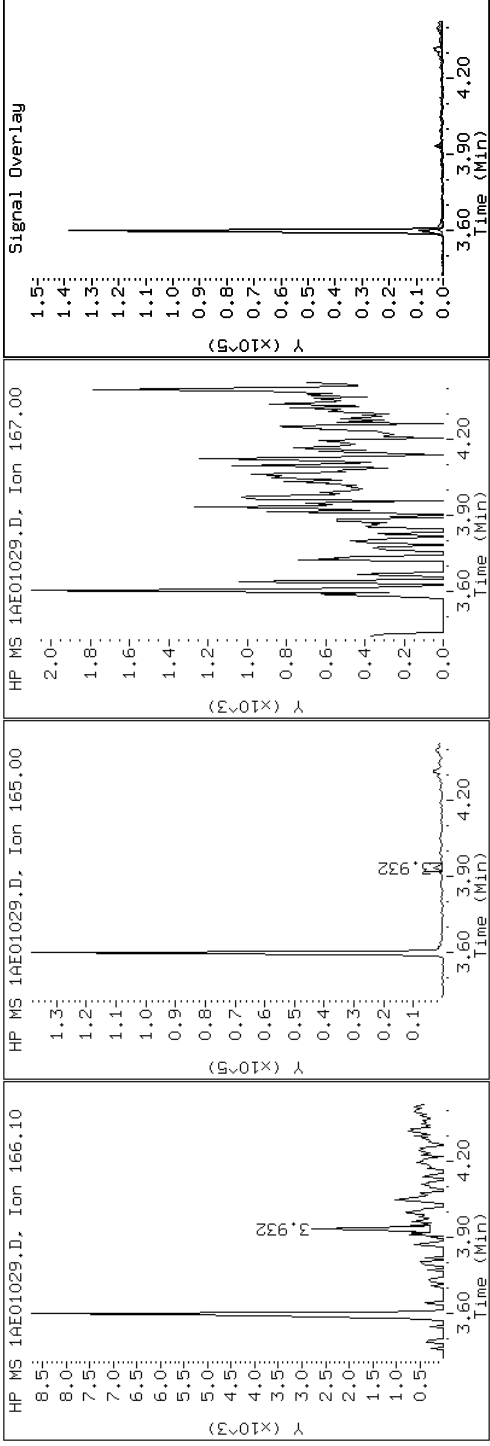
Client ID: CVI336A-CSD

Instrument: BSMA5973.i

Sample Info: 680-89791-a-11-a

Operator: SCC

9 Fluorene





Data File: 1AE01029.D

Date: 01-MAY-2013 20:03

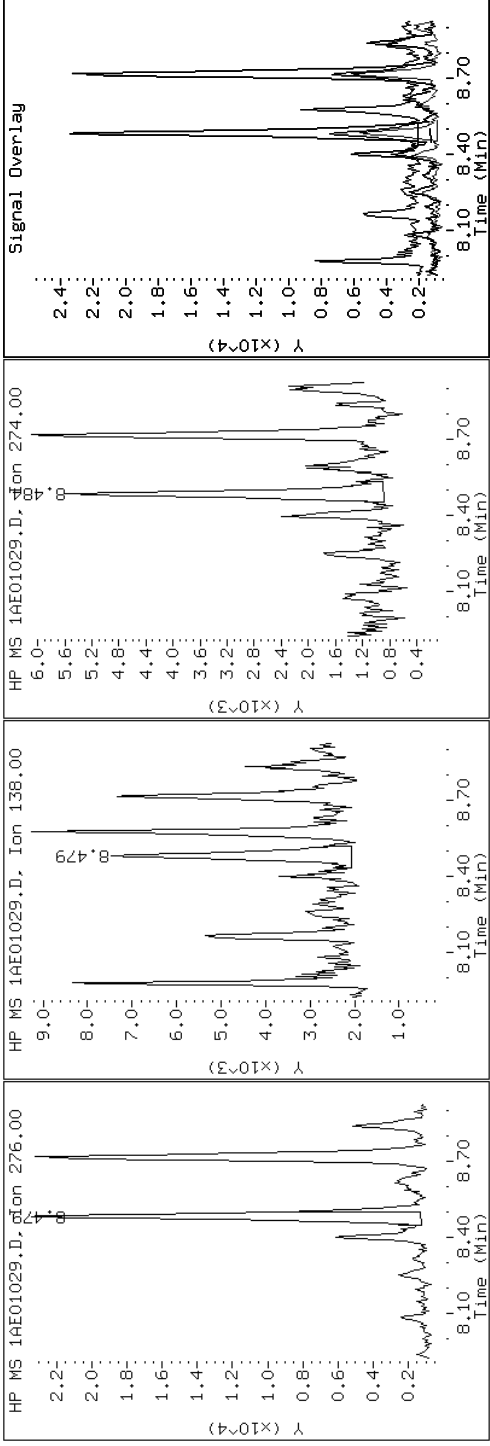
Client ID: CV1336A-CSD

Instrument: BSMA5973.i

Sample Info: 680-89791-a-11-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



Data File: 1AE01029.D

Date: 01-MAY-2013 20:03

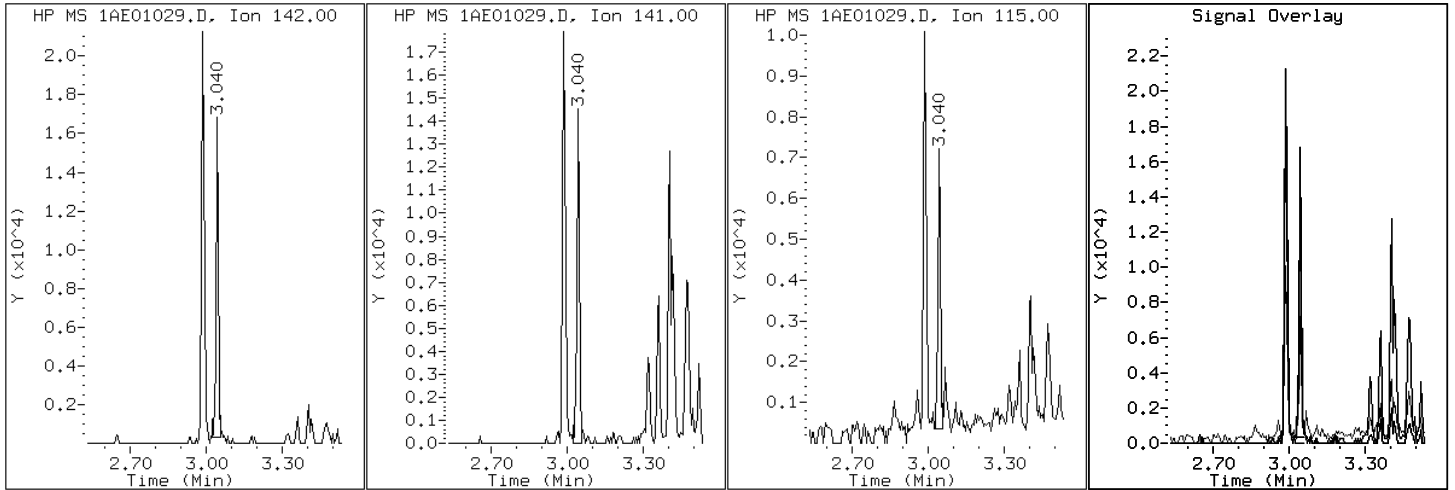
Client ID: CV1336A-CSD

Instrument: BSMA5973.i

Sample Info: 680-89791-a-11-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE01029.D

Date: 01-MAY-2013 20:03

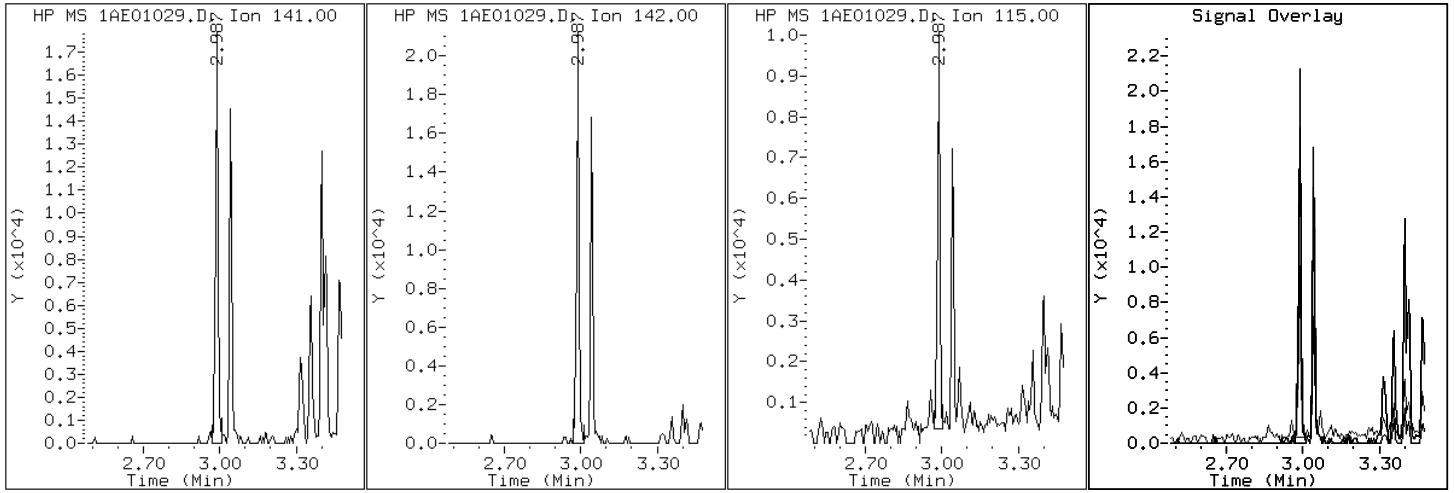
Client ID: CV1336A-CSD

Instrument: BSMA5973.i

Sample Info: 680-89791-a-11-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AE01029.D

Date: 01-MAY-2013 20:03

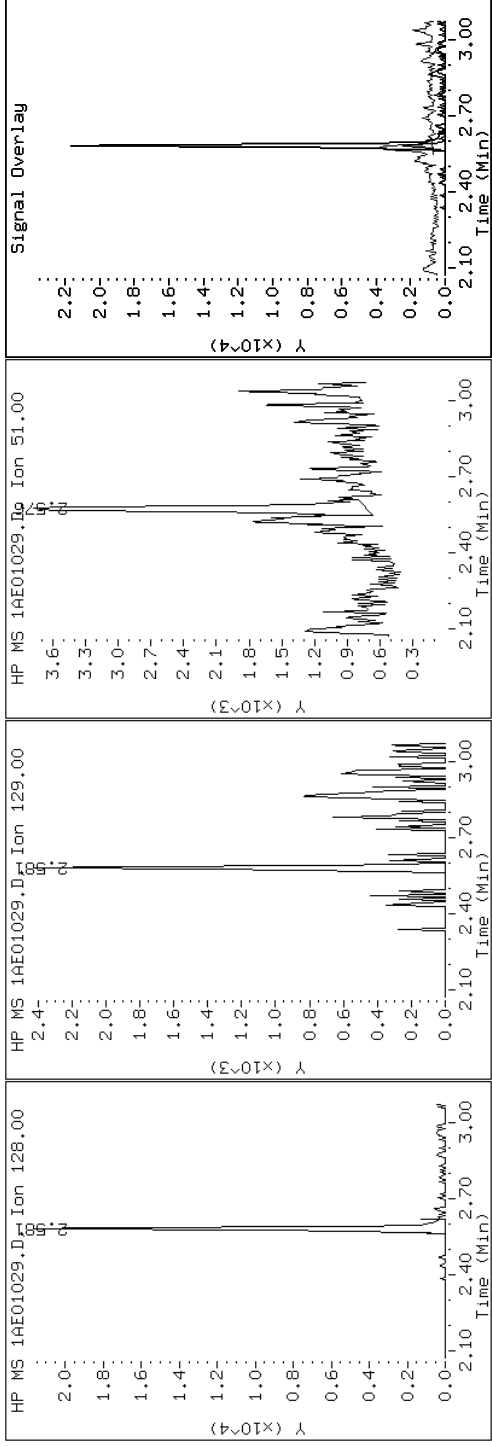
Client ID: CV1336A-CSD

Instrument: BSMA5973.i

Sample Info: 680-89791-a-11-a

Operator: SCC

2 Naphthalene



Data File: 1AE01029.D

Date: 01-MAY-2013 20:03

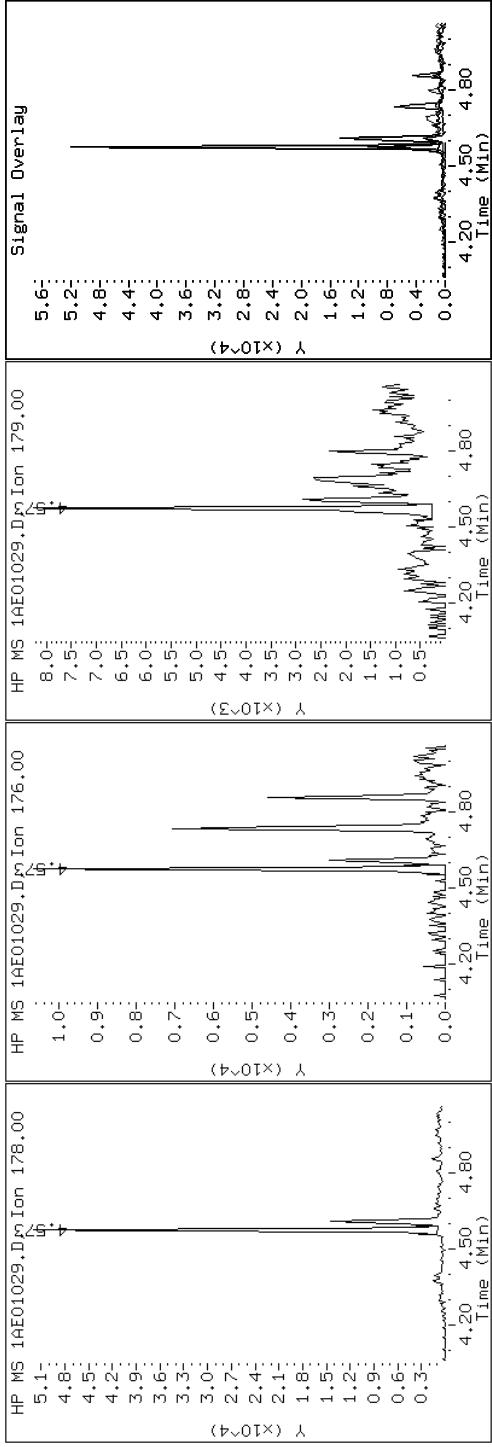
Client ID: CVI336A-CSD

Instrument: BSMA5973.i

Sample Info: 680-89791-a-11-a

Operator: SCC

11 Phenanthrene



Data File: 1AE01029.D

Date: 01-MAY-2013 20:03

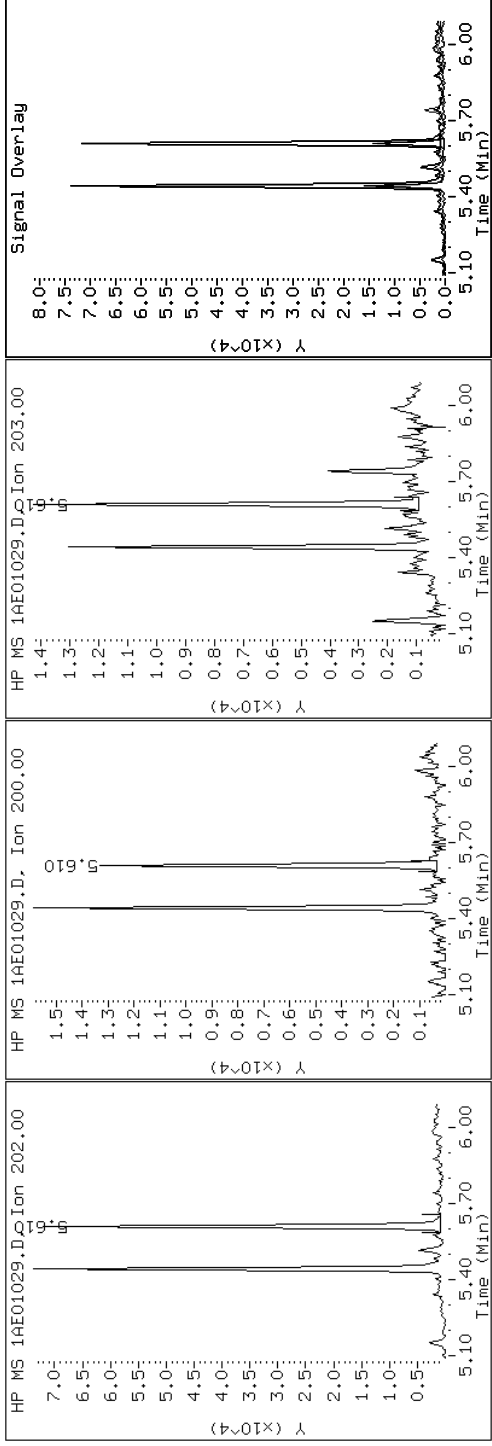
Client ID: CVI336A-CSD

Instrument: BSMA5973.i

Sample Info: 680-89791-a-11-a

Operator: SCC

16 Pyrene

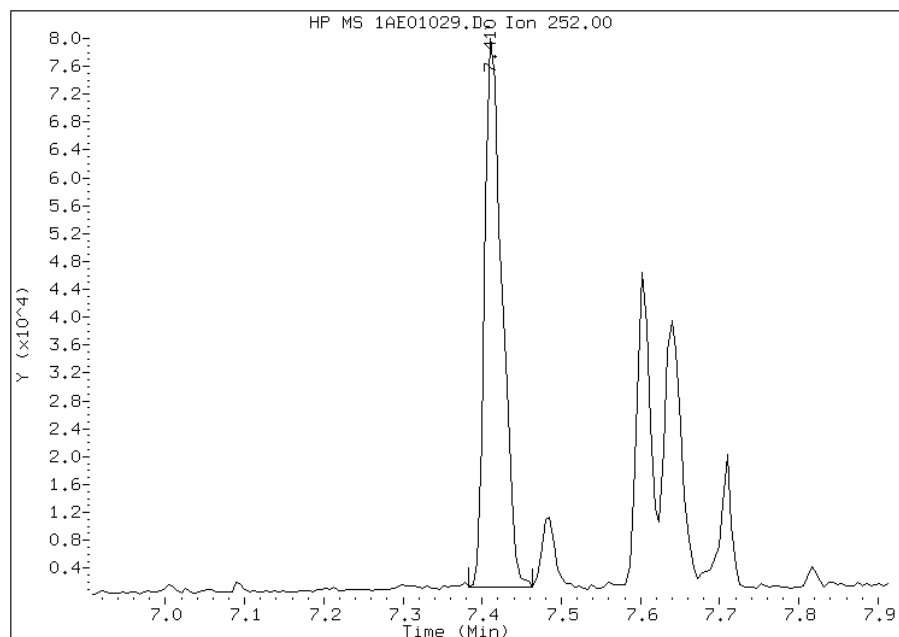


# Manual Integration Report

Data File: 1AE01029.D  
Inj. Date and Time: 01-MAY-2013 20:03  
Instrument ID: BSMA5973.i  
Client ID: CV1336A-CSD  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 05/05/2013

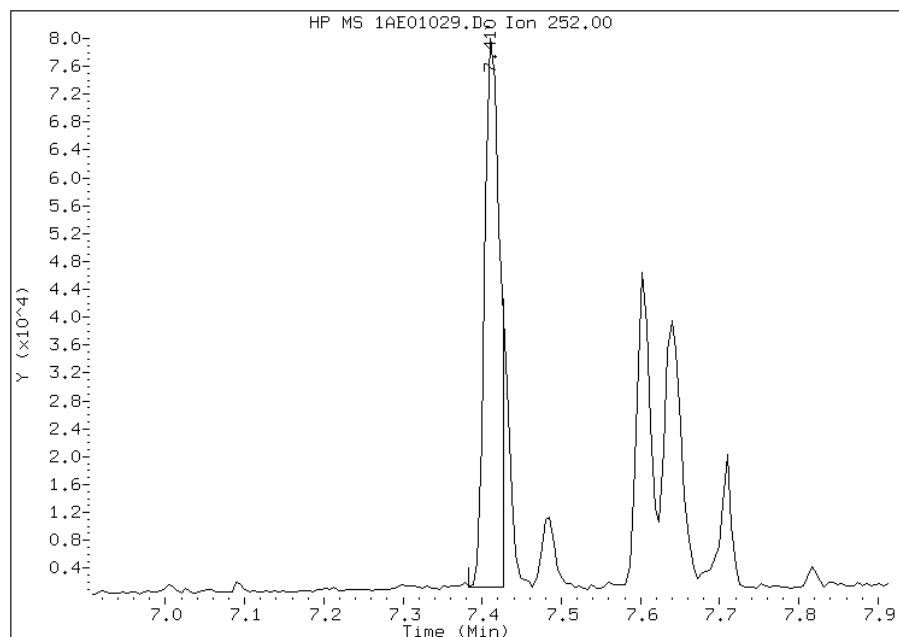
## Processing Integration Results

RT: 7.41  
Response: 119146  
Amount: 3  
Conc: 220



## Manual Integration Results

RT: 7.41  
Response: 103032  
Amount: 2  
Conc: 190



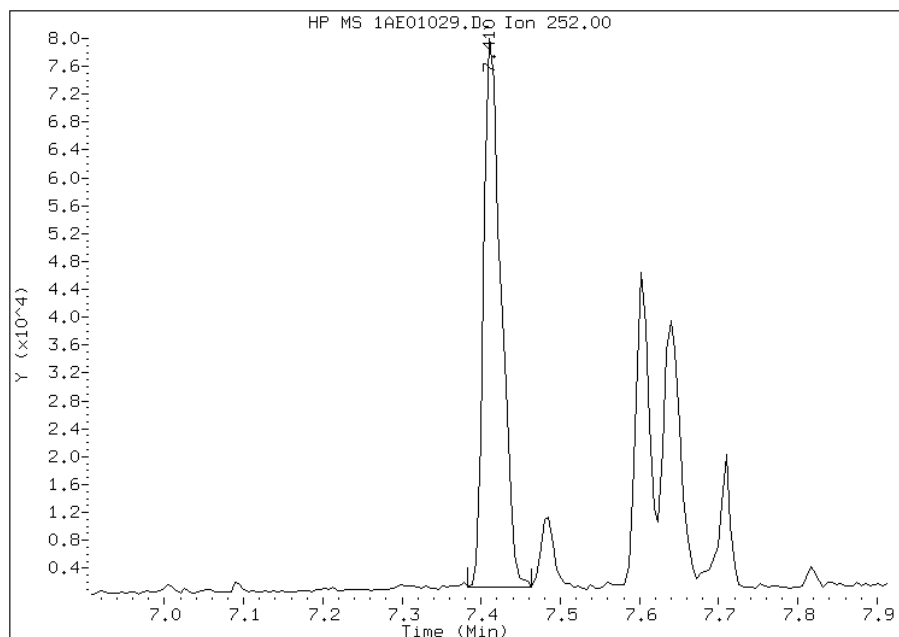
Manually Integrated By: cantins  
Modification Date: 05-May-2013 18:39  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AE01029.D  
Inj. Date and Time: 01-MAY-2013 20:03  
Instrument ID: BSMA5973.i  
Client ID: CV1336A-CSD  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 05/05/2013

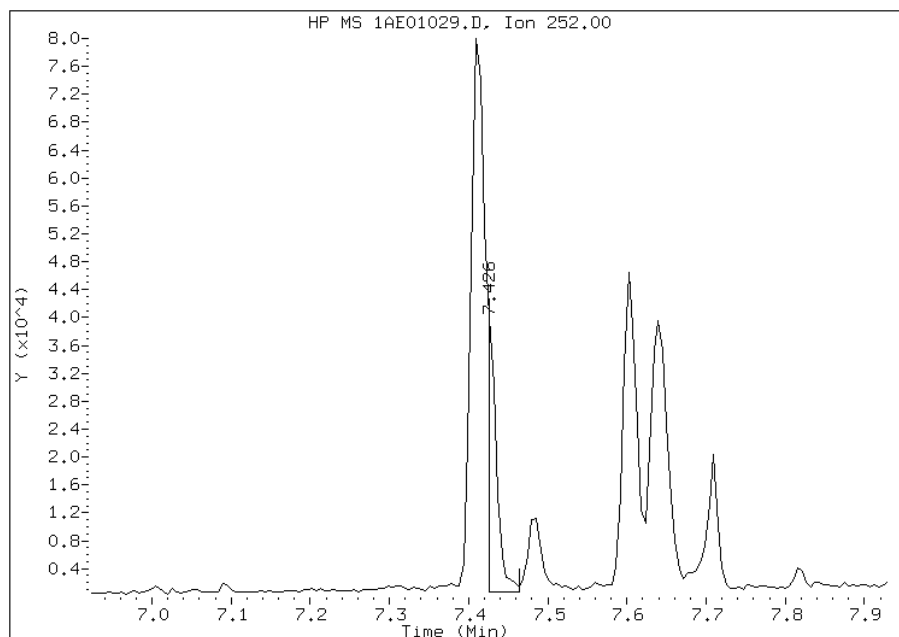
## Processing Integration Results

RT: 7.41  
Response: 119146  
Amount: 2  
Conc: 191



## Manual Integration Results

RT: 7.43  
Response: 30233  
Amount: 1  
Conc: 49



Manually Integrated By: cantins  
Modification Date: 05-May-2013 18:39  
Manual Integration Reason: Baseline Event

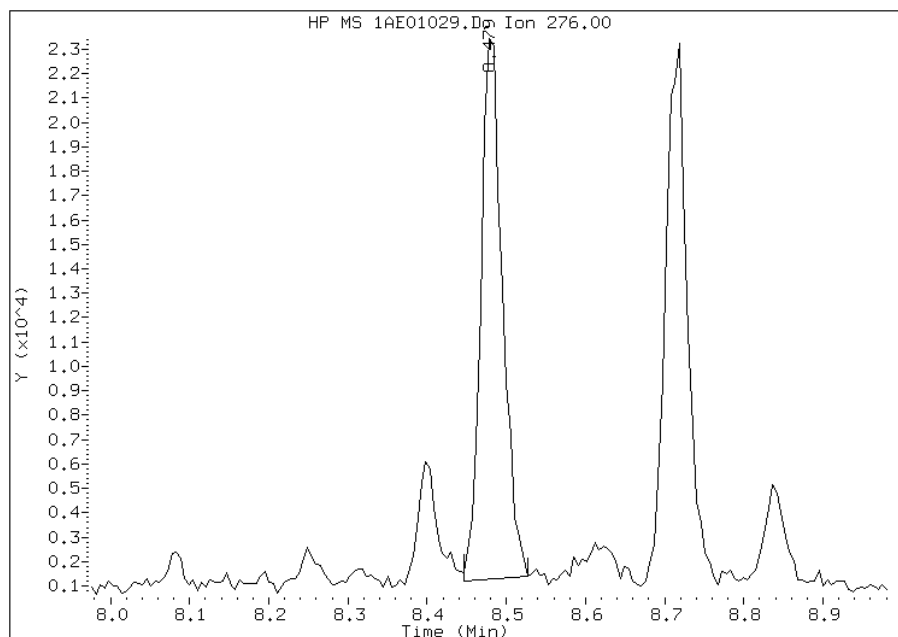


# Manual Integration Report

Data File: 1AE01029.D  
Inj. Date and Time: 01-MAY-2013 20:03  
Instrument ID: BSMA5973.i  
Client ID: CV1336A-CSD  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/05/2013

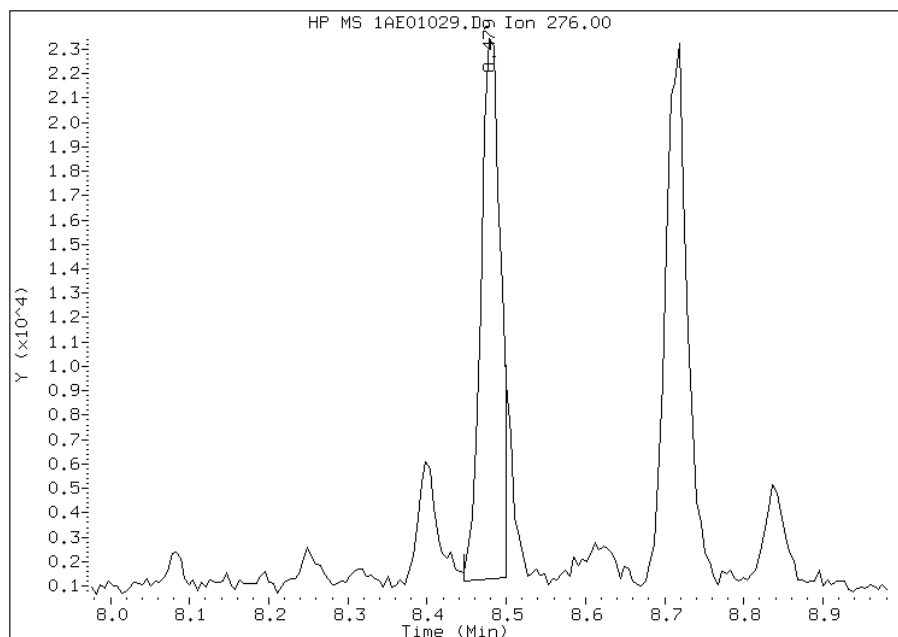
## Processing Integration Results

RT: 8.48  
Response: 41652  
Amount: 1  
Conc: 82



## Manual Integration Results

RT: 8.48  
Response: 38191  
Amount: 1  
Conc: 75



Manually Integrated By: cantins  
Modification Date: 05-May-2013 18:40  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: CV1336B-CS Lab Sample ID: 680-89791-12  
 Matrix: Solid Lab File ID: 1AE01030.D  
 Analysis Method: 8270C LL Date Collected: 04/24/2013 09:30  
 Extract. Method: 3546 Date Extracted: 04/29/2013 14:27  
 Sample wt/vol: 15.09(g) Date Analyzed: 05/01/2013 20:18  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 22.6 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137001 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	40	J	51	6.4
120-12-7	Anthracene	60		11	5.4
56-55-3	Benzo[a]anthracene	190		10	5.0
50-32-8	Benzo[a]pyrene	190		13	6.7
205-99-2	Benzo[b]fluoranthene	290		16	7.8
191-24-2	Benzo[g,h,i]perylene	120		26	5.7
207-08-9	Benzo[k]fluoranthene	140		10	4.6
218-01-9	Chrysene	240		12	5.8
53-70-3	Dibenz(a,h)anthracene	48		26	5.3
206-44-0	Fluoranthene	340		26	5.1
86-73-7	Fluorene	15	J	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	130		26	9.1
90-12-0	1-Methylnaphthalene	77		51	5.7
91-57-6	2-Methylnaphthalene	94		51	9.1
91-20-3	Naphthalene	85		51	5.7
85-01-8	Phenanthrene	230		10	5.0
129-00-0	Pyrene	230		26	4.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	61		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01030.D  
 Lab Smp Id: 680-89791-A-12-A Client Smp ID: CV1336B-CS  
 Inj Date : 01-MAY-2013 20:18  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-89791-a-12-a  
 Misc Info : 680-89791-A-12-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\a-bFASTPAHi-m.m  
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 27  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.090	Weight Extracted
M	22.624	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.575	2.563	(1.000)	1252687	40.0000		
* 6 Acenaphthene-d10	164		3.601	3.594	(1.000)	650823	40.0000		
* 10 Phenanthrene-d10	188		4.562	4.544	(1.000)	1022262	40.0000		
\$ 14 o-Terphenyl	230		4.856	4.844	(1.064)	102553	6.13335	525.2967	
* 18 Chrysene-d12	240		6.603	6.574	(1.000)	1216940	40.0000		
* 23 Perylene-d12	264		7.703	7.659	(1.000)	1421994	40.0000		
2 Naphthalene	128		2.580	2.573	(1.002)	30972	0.98906	84.7089	
3 2-Methylnaphthalene	141		2.986	2.979	(1.160)	19647	1.09434	93.7254	
4 1-Methylnaphthalene	142		3.040	3.033	(1.180)	17849	0.89735	76.8542	
5 Acenaphthylene	152		3.510	3.503	(0.975)	17681	0.46485	39.8125	
9 Fluorene	166		3.937	3.925	(1.093)	4216	0.17567	15.0458(Q)	
11 Phenanthrene	178		4.573	4.560	(1.002)	78959	2.66637	228.3640	
12 Anthracene	178		4.610	4.593	(1.011)	21612	0.70189	60.1142	
13 Carbazole	167		4.744	4.726	(1.040)	11687	0.39345	33.6973	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	5.444	5.426	(1.193)	134371	3.92857	336.4660
16 Pyrene	202	5.615	5.592	(0.850)	126506	2.72483	233.3706
17 Benzo(a)anthracene	228	6.592	6.558	(0.998)	88852	2.23574	191.4819
19 Chrysene	228	6.614	6.590	(1.002)	115248	2.85842	244.8123
20 Benzo(b)fluoranthene	252	7.420	7.381	(0.963)	145822	3.37779	289.2936(M)
21 Benzo(k)fluoranthene	252	7.426	7.402	(0.964)	78666	1.58487	135.7376(M)
22 Benzo(a)pyrene	252	7.645	7.605	(0.992)	94514	2.20071	188.4815
24 Indeno(1,2,3-cd)pyrene	276	8.489	8.423	(1.102)	59241	1.46090	125.1202(M)
25 Dibenzo(a,h)anthracene	278	8.510	8.450	(1.105)	21354	0.56596	48.4720
26 Benzo(g,h,i)perylene	276	8.724	8.642	(1.132)	64538	1.42203	121.7914

QC Flag Legend

Q - Qualifier signal failed the ratio test.  
M - Compound response manually integrated.

Data File: 1AE01030.D

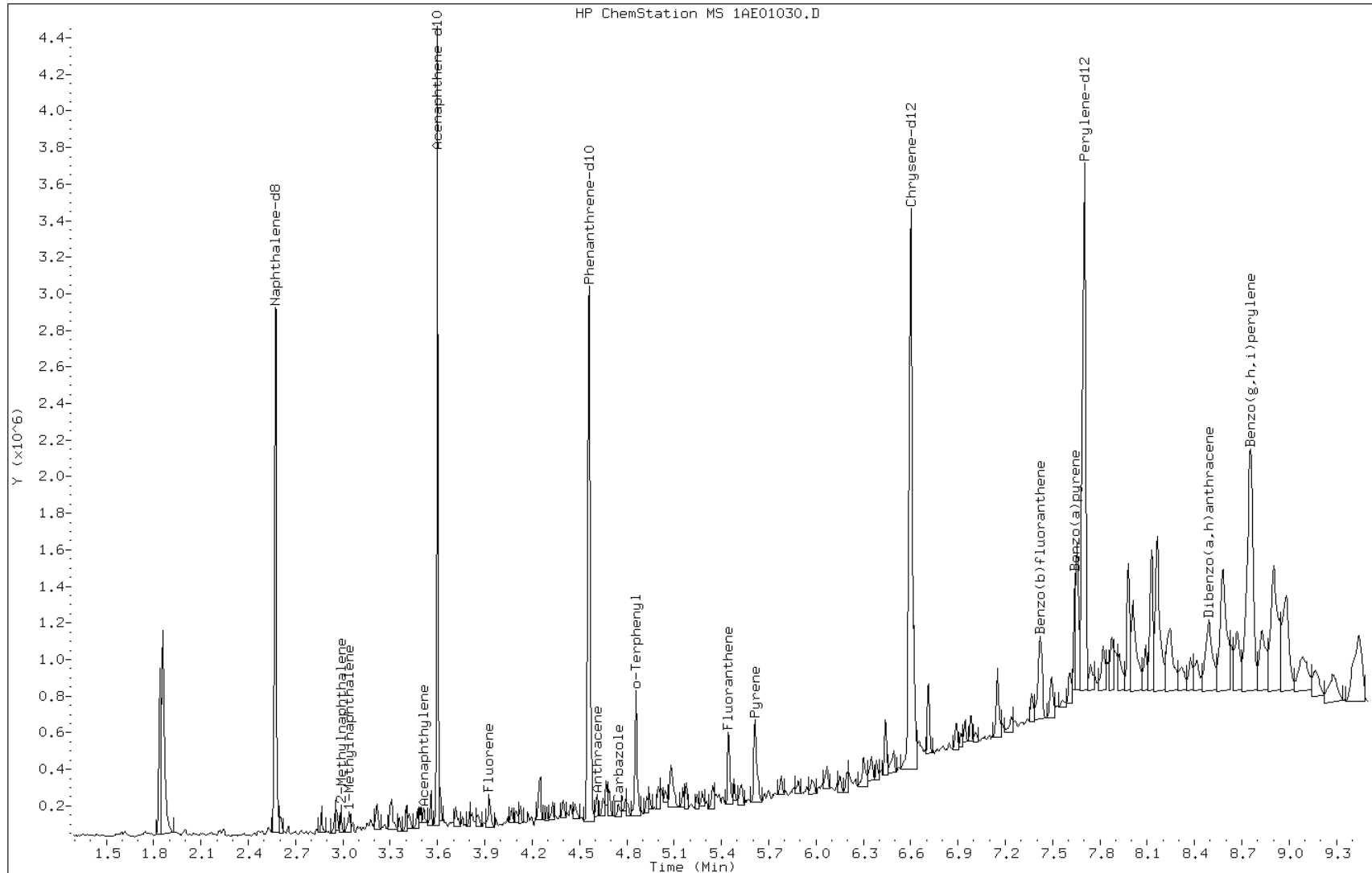
Date: 01-MAY-2013 20:18

Client ID: CV1336B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-12-a

Operator: SCC



Data File: 1AE01030.D

Date: 01-MAY-2013 20:18

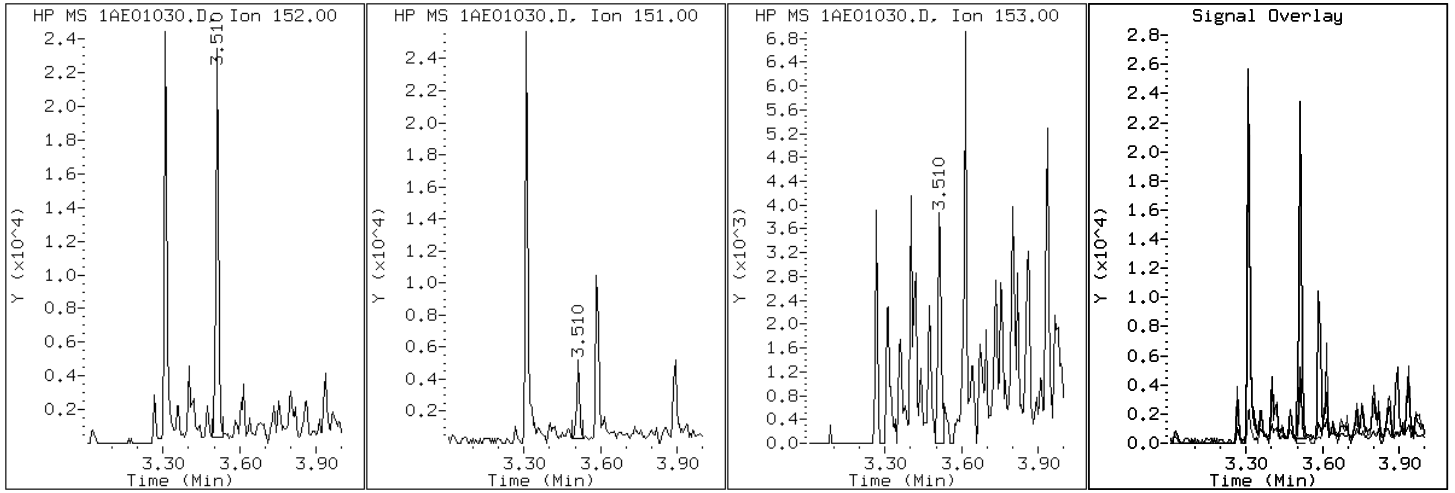
Client ID: CV1336B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-12-a

Operator: SCC

5 Acenaphthylene



Data File: 1AE01030.D

Date: 01-MAY-2013 20:18

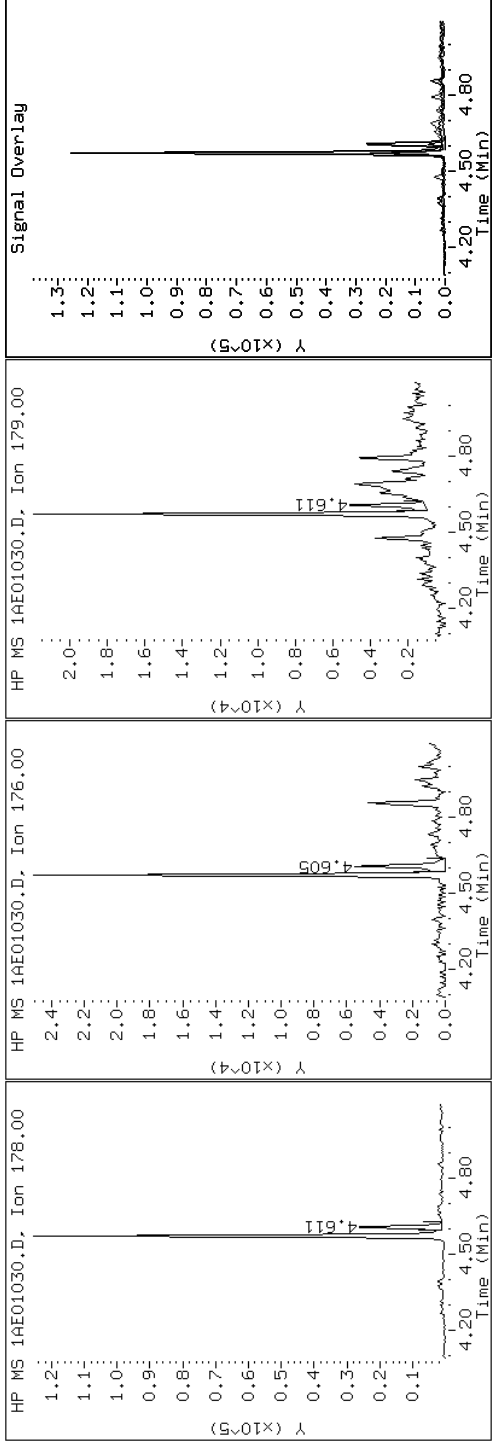
Client ID: CVI336B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-12-a

Operator: SCC

12 Anthracene



Data File: 1AE01030.D

Date: 01-MAY-2013 20:18

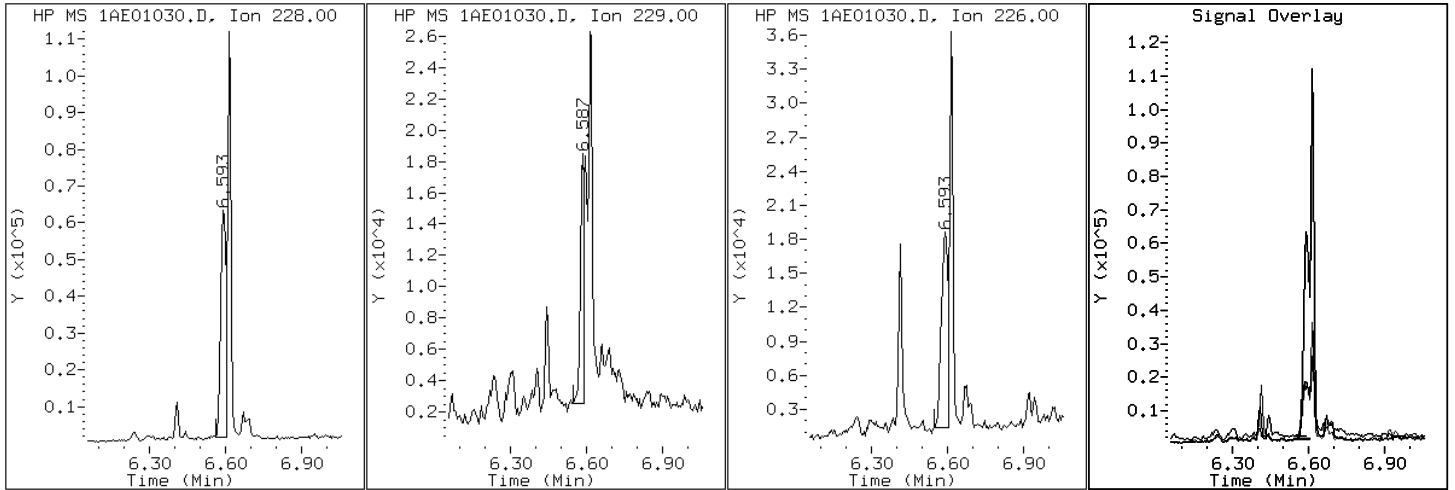
Client ID: CV1336B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-12-a

Operator: SCC

17 Benzo(a)anthracene





Data File: 1AE01030.D

Date: 01-MAY-2013 20:18

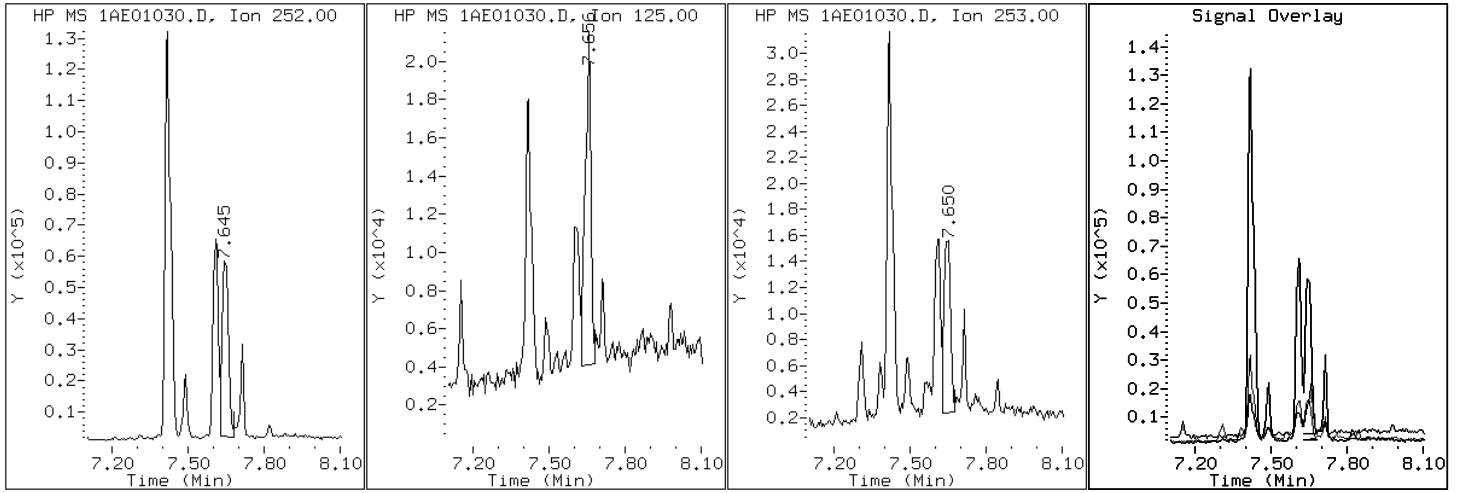
Client ID: CV1336B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-12-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AE01030.D

Date: 01-MAY-2013 20:18

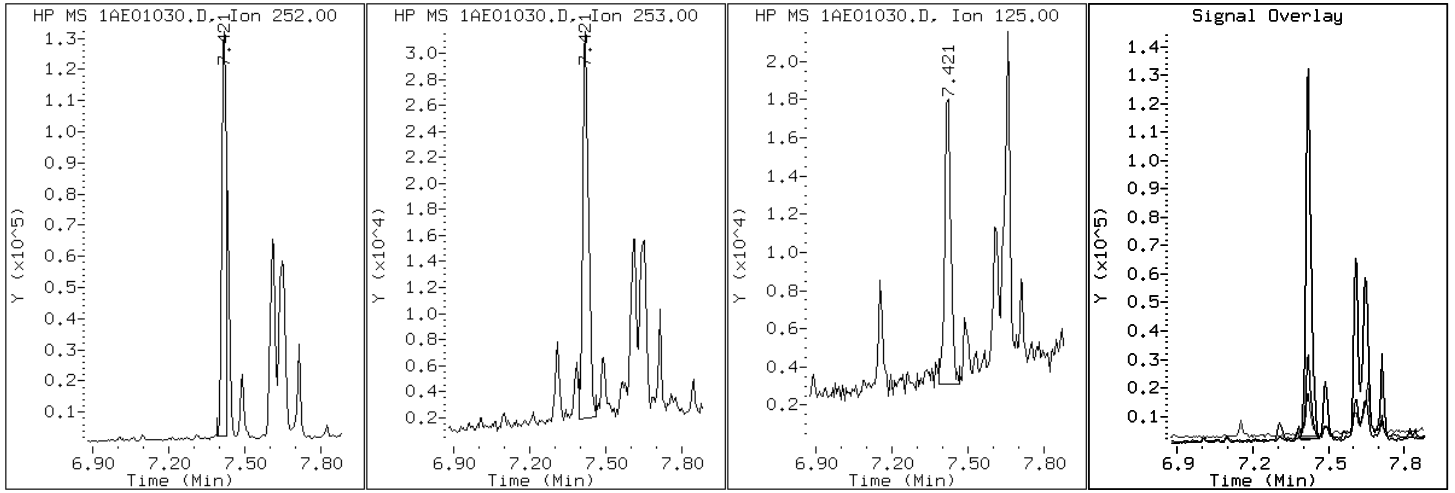
Client ID: CV1336B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-12-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AE01030.D

Date: 01-MAY-2013 20:18

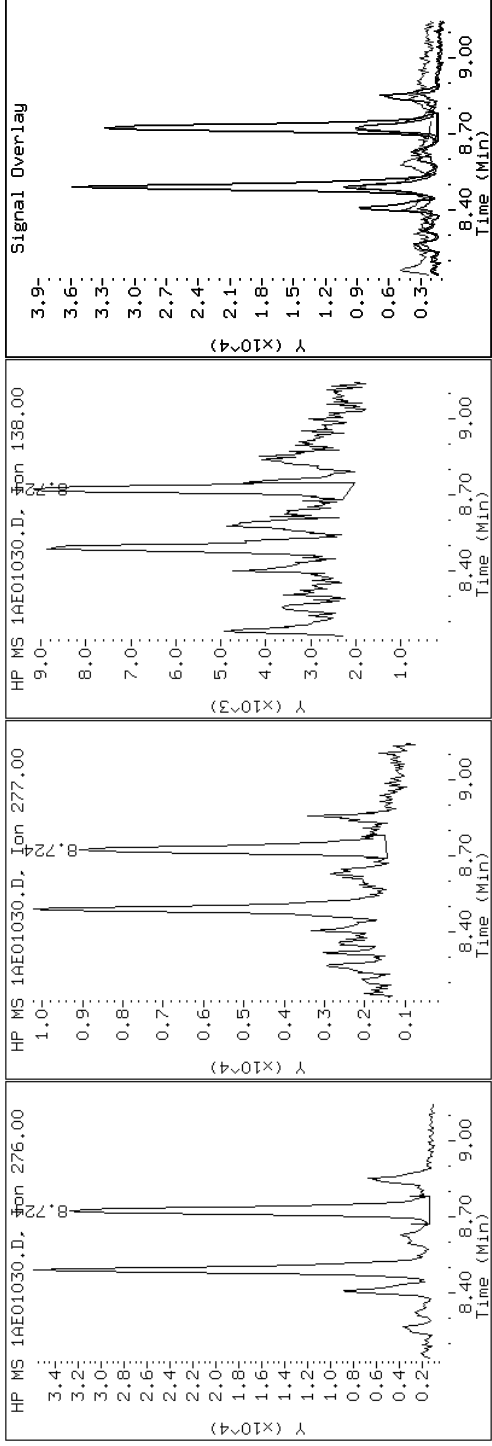
Client ID: CVI336B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-12-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AE01030.D

Date: 01-MAY-2013 20:18

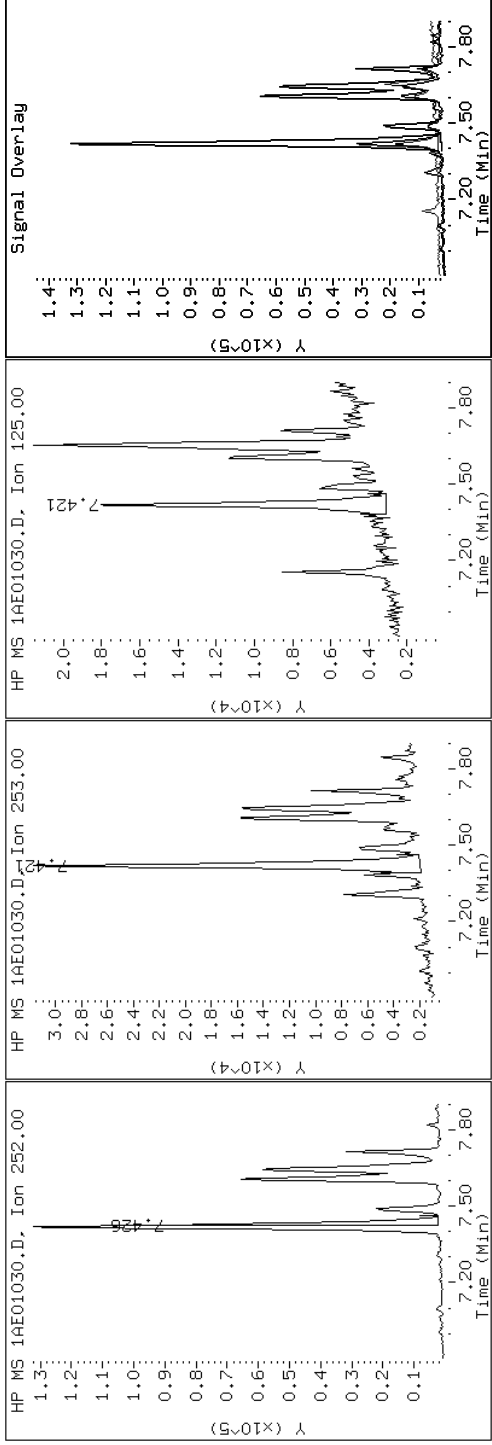
Client ID: CVI336B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-12-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AE01030.D

Date: 01-MAY-2013 20:18

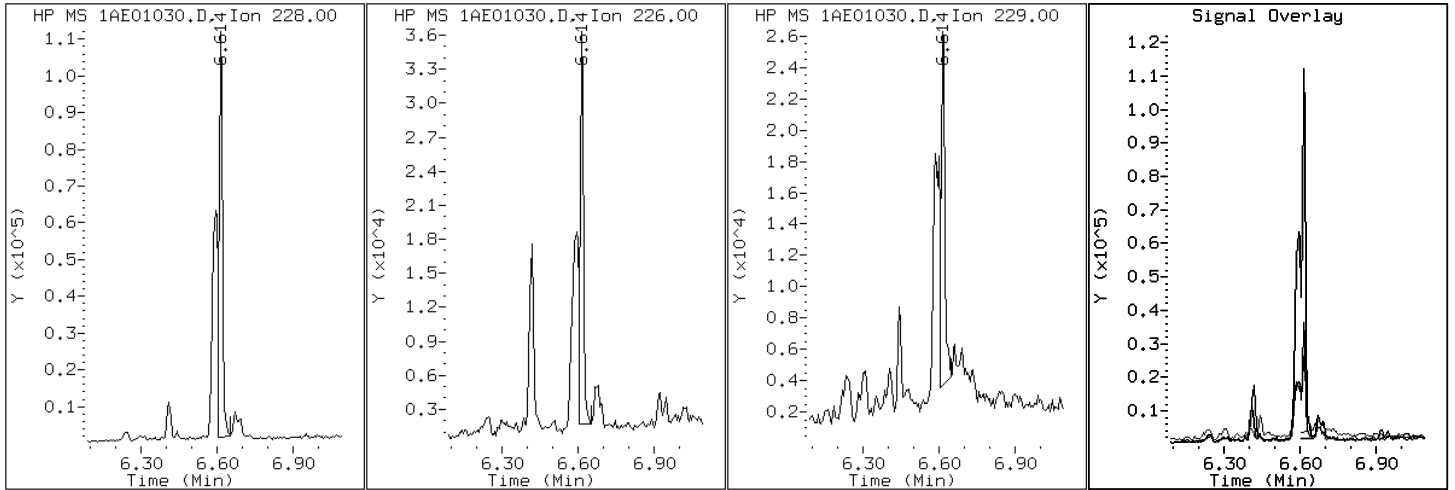
Client ID: CV1336B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-12-a

Operator: SCC

19 Chrysene



Data File: 1AE01030.D

Date: 01-MAY-2013 20:18

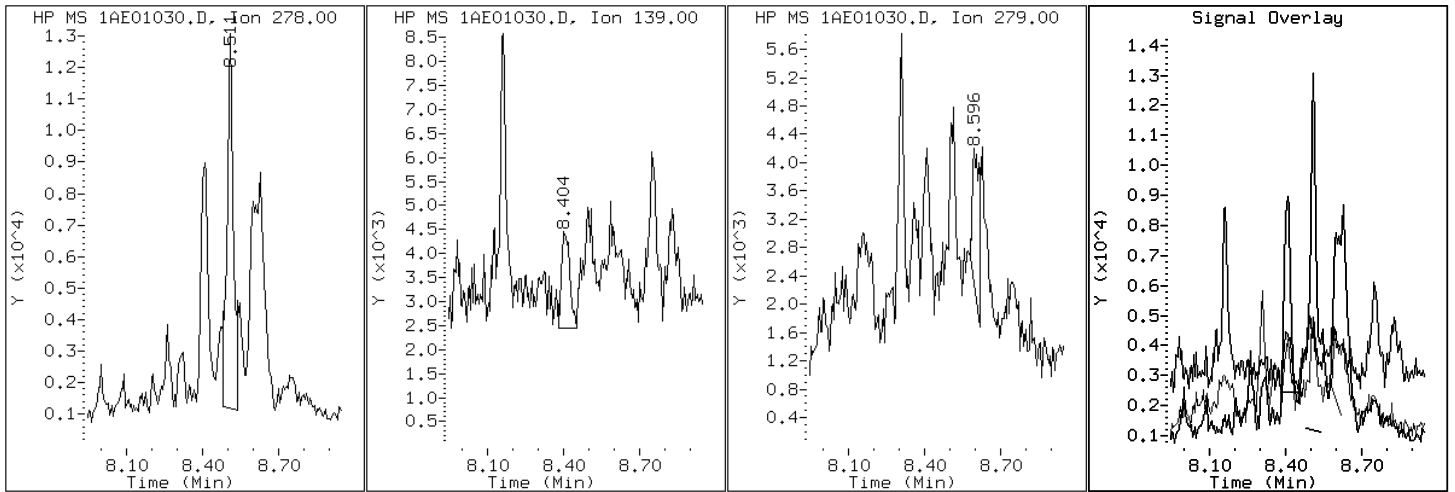
Client ID: CV1336B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-12-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AE01030.D

Date: 01-MAY-2013 20:18

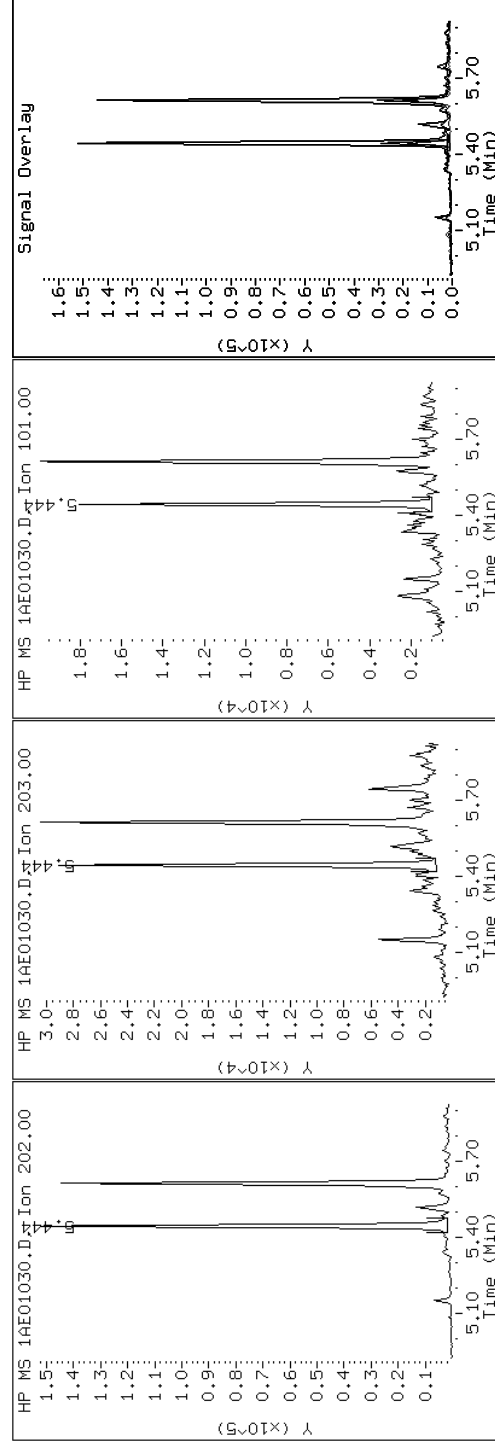
Client ID: CVI336B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-12-a

Operator: SCC

15 Fluoranthene



Data File: 1AE01030.D

Date: 01-MAY-2013 20:18

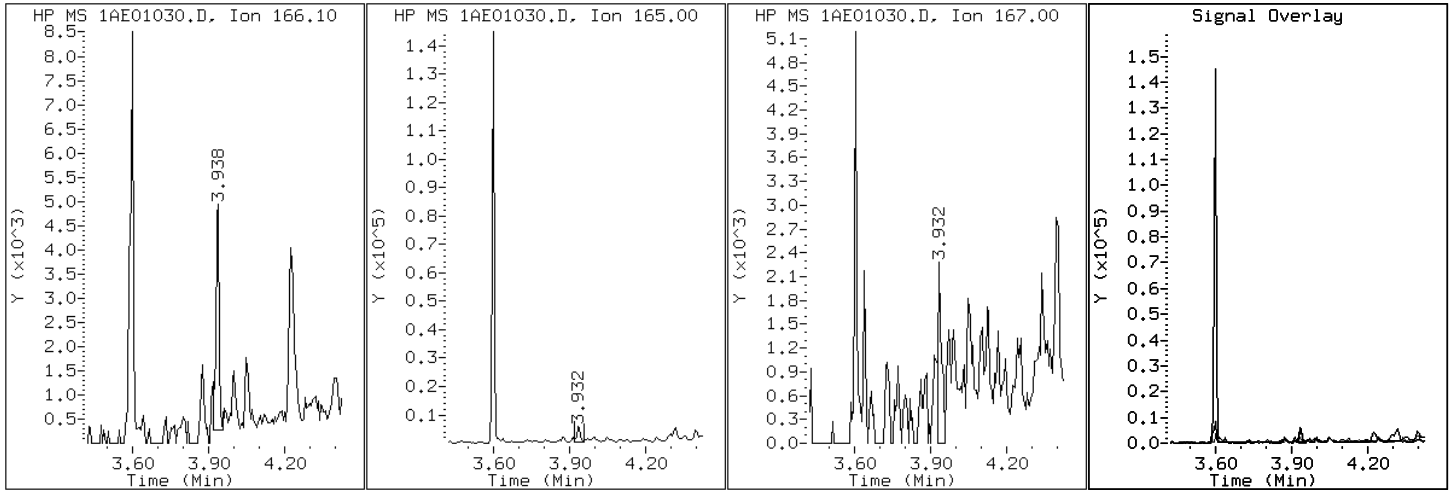
Client ID: CV1336B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-12-a

Operator: SCC

9 Fluorene





Data File: 1AE01030.D

Date: 01-MAY-2013 20:18

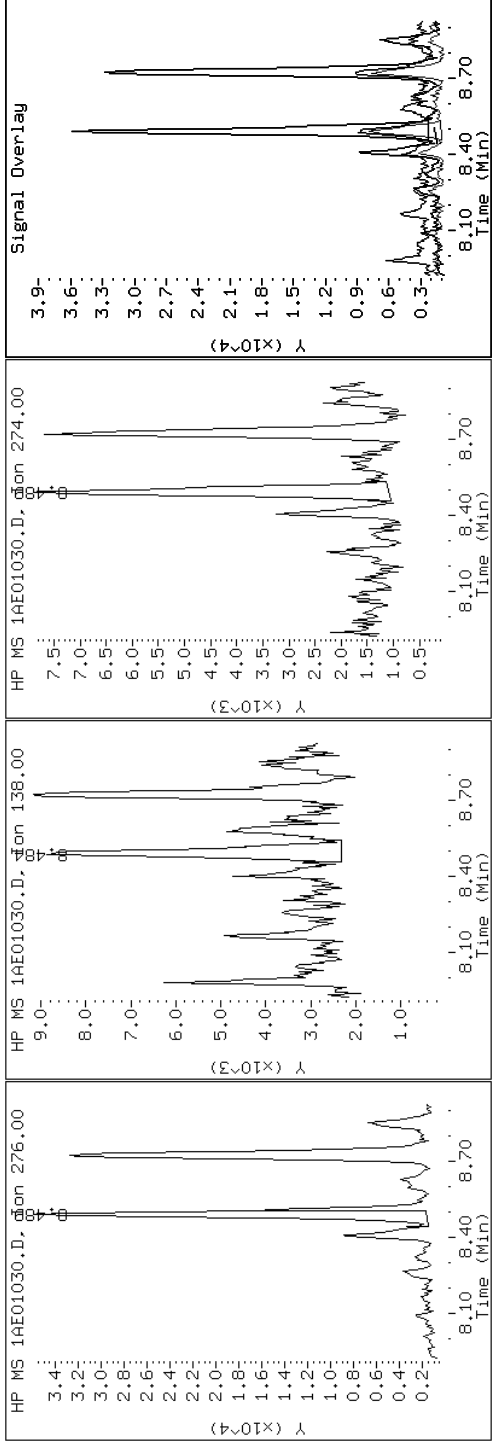
Client ID: CVI336B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-12-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



Data File: 1AE01030.D

Date: 01-MAY-2013 20:18

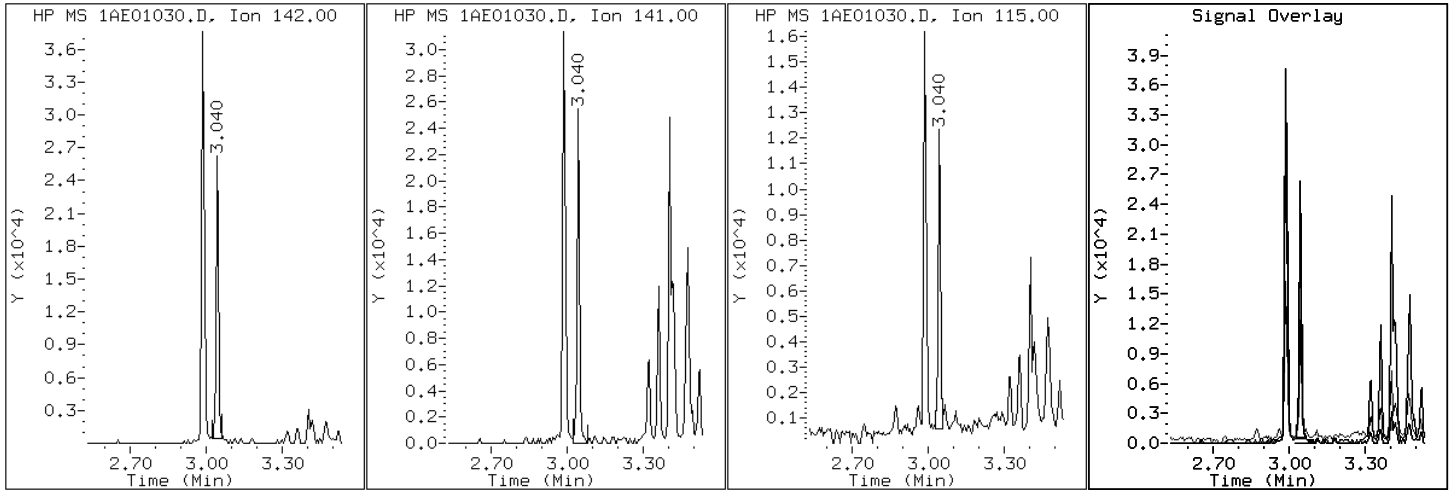
Client ID: CV1336B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-12-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE01030.D

Date: 01-MAY-2013 20:18

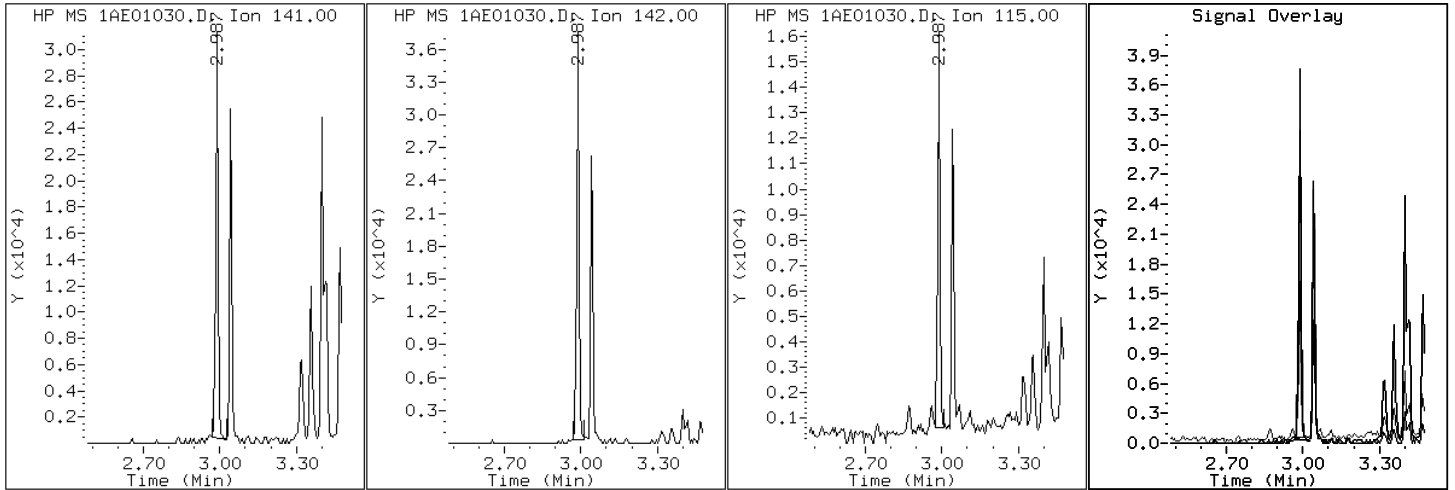
Client ID: CV1336B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-12-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AE01030.D

Date: 01-MAY-2013 20:18

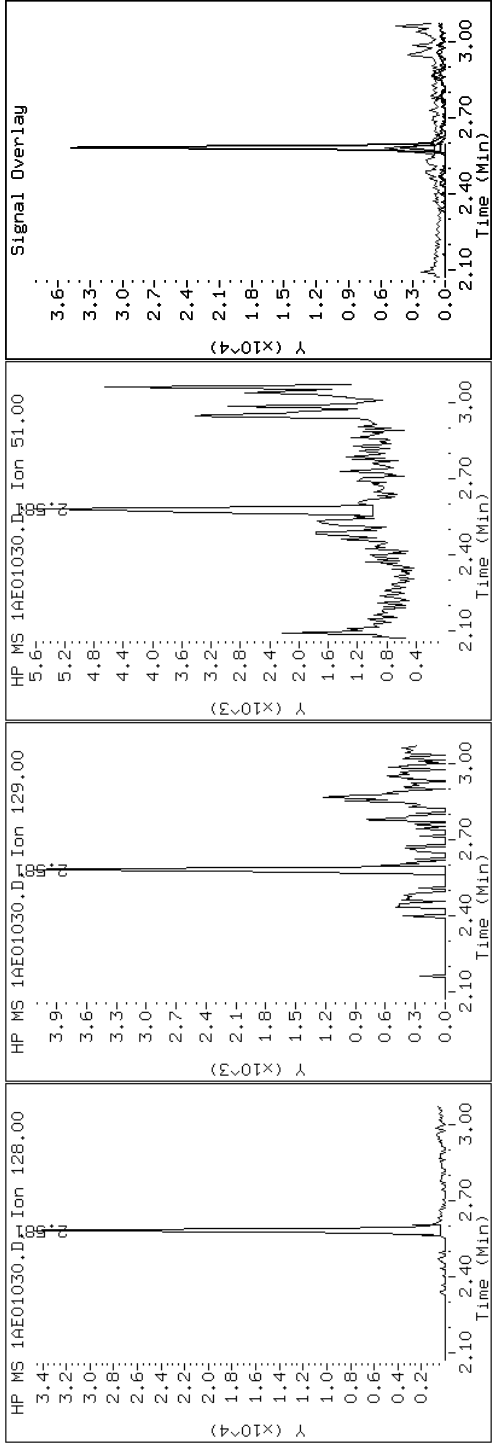
Client ID: CVI336B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-12-a

Operator: SCC

2 Naphthalene



Data File: 1AE01030.D

Date: 01-MAY-2013 20:18

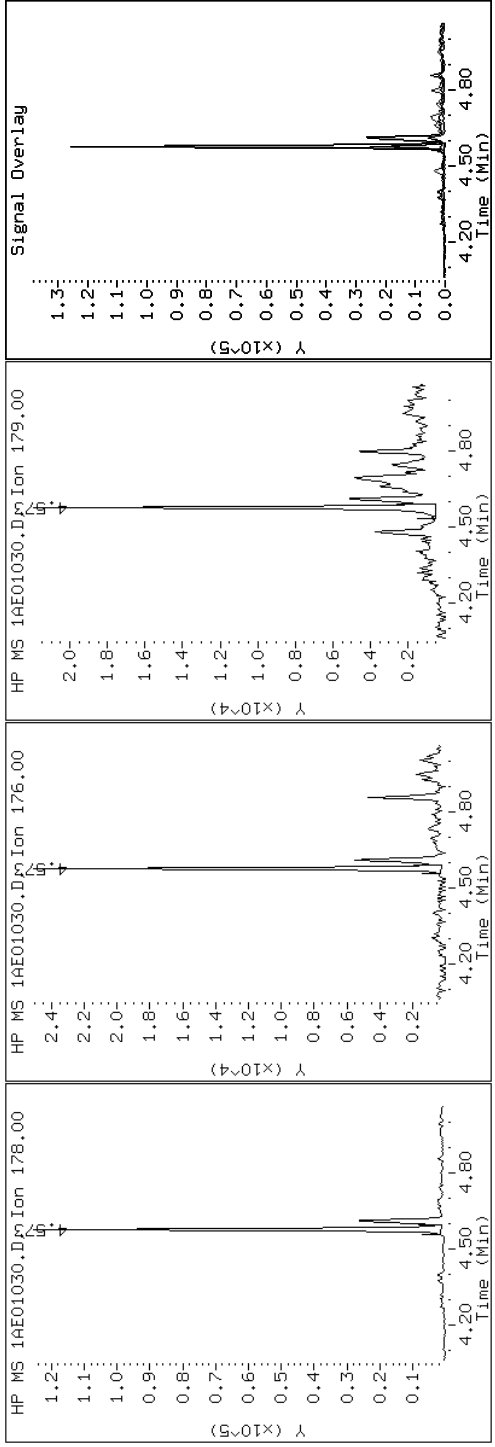
Client ID: CVI336B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-12-a

Operator: SCC

11 Phenanthrene



Data File: 1AE01030.D

Date: 01-MAY-2013 20:18

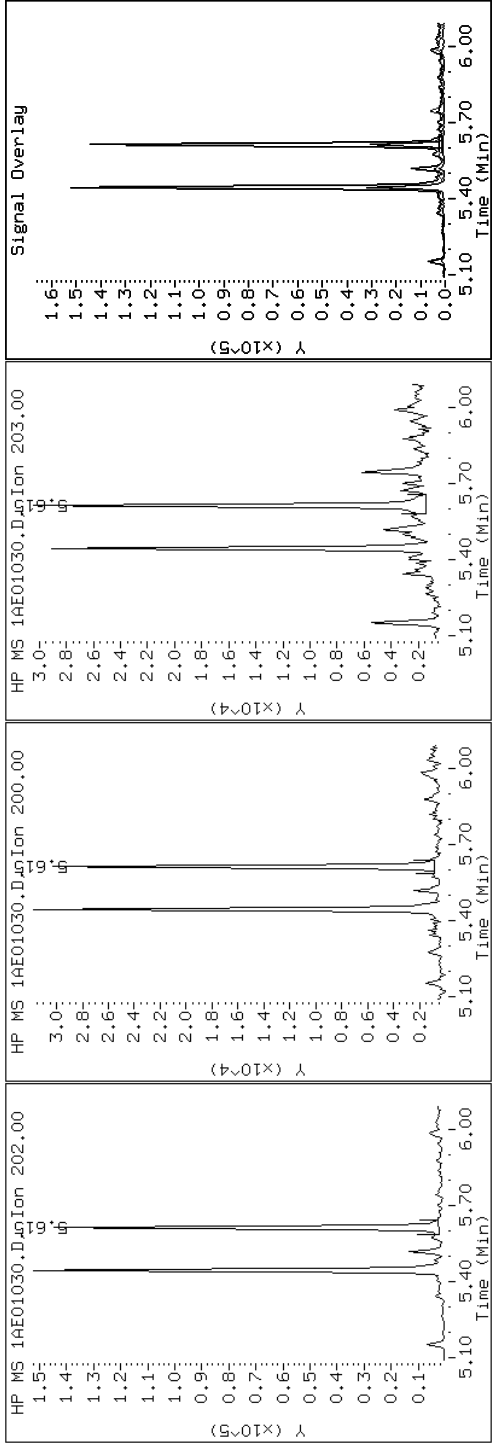
Client ID: CVI336B-CS

Instrument: BSMA5973.i

Sample Info: 680-89791-a-12-a

Operator: SCC

16 Pyrene

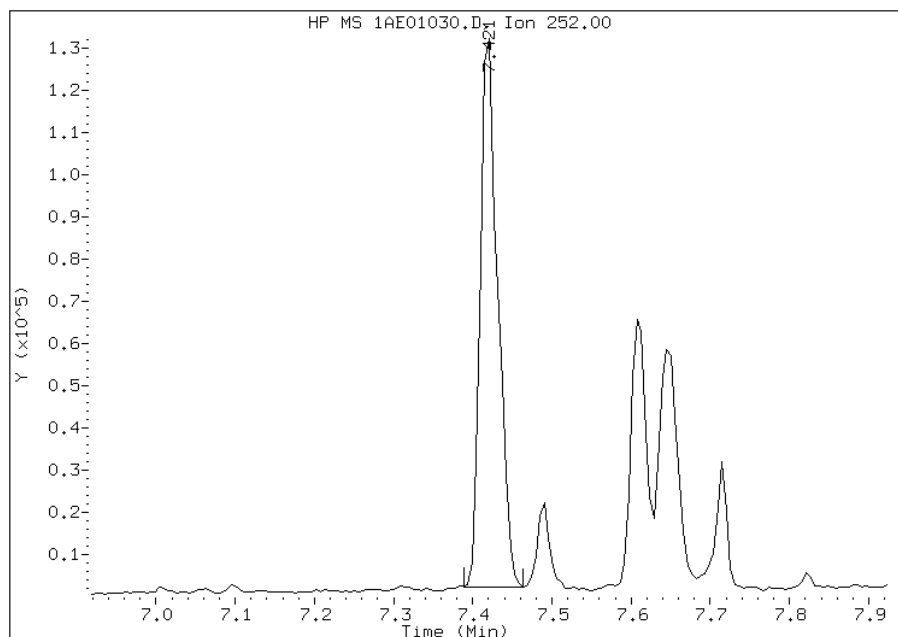


# Manual Integration Report

Data File: 1AE01030.D  
Inj. Date and Time: 01-MAY-2013 20:18  
Instrument ID: BSMA5973.i  
Client ID: CV1336B-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 05/05/2013

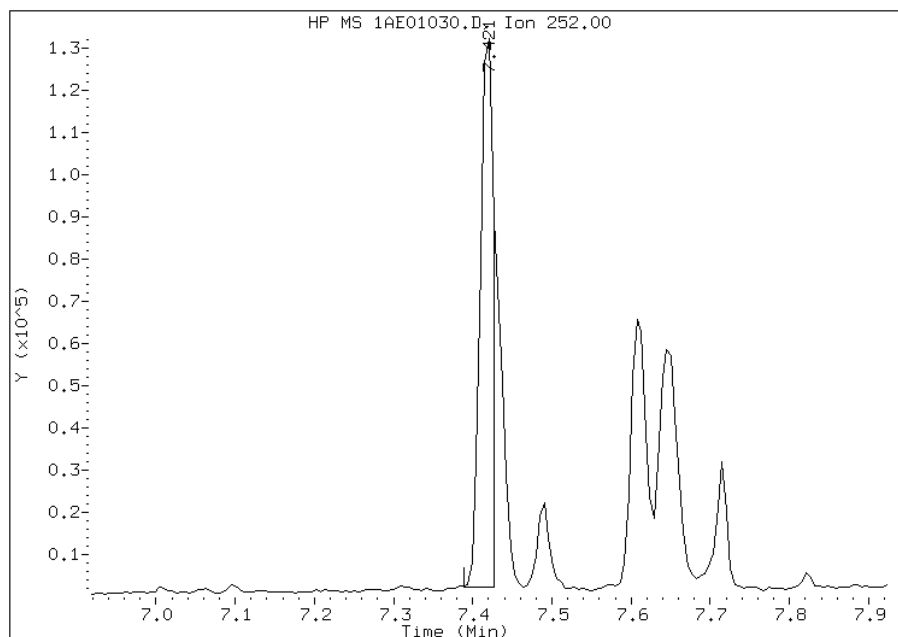
## Processing Integration Results

RT: 7.42  
Response: 197074  
Amount: 5  
Conc: 391



## Manual Integration Results

RT: 7.42  
Response: 145822  
Amount: 3  
Conc: 289



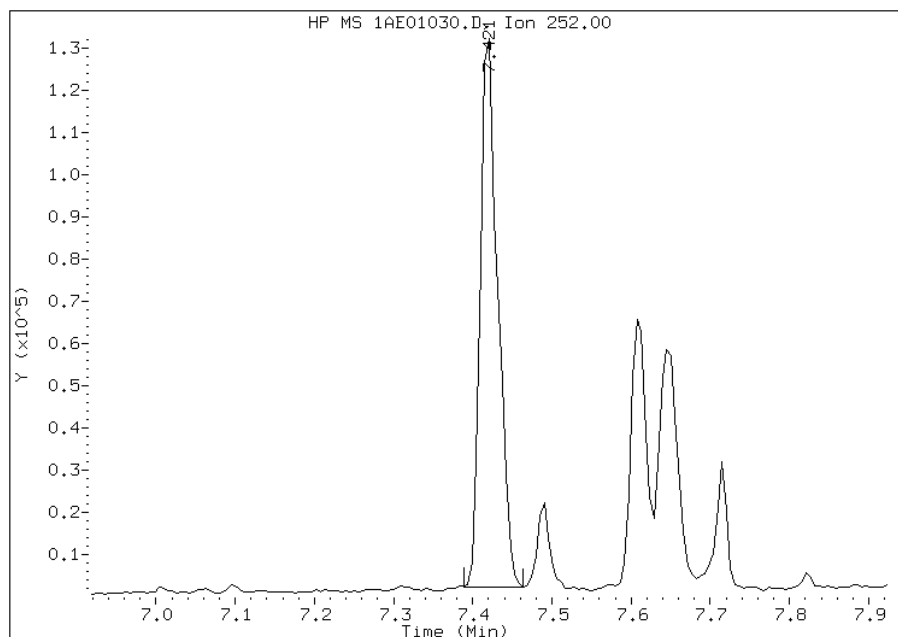
Manually Integrated By: cantins  
Modification Date: 05-May-2013 18:41  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AE01030.D  
Inj. Date and Time: 01-MAY-2013 20:18  
Instrument ID: BSMA5973.i  
Client ID: CV1336B-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 05/05/2013

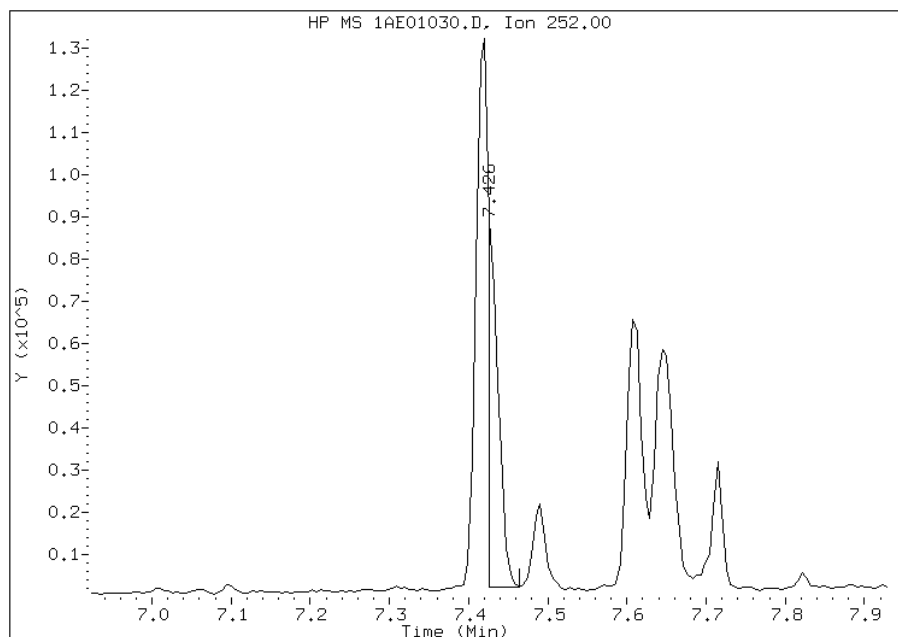
## Processing Integration Results

RT: 7.42  
Response: 197074  
Amount: 4  
Conc: 340



## Manual Integration Results

RT: 7.43  
Response: 78666  
Amount: 2  
Conc: 136



Manually Integrated By: cantins  
Modification Date: 05-May-2013 18:41  
Manual Integration Reason: Baseline Event

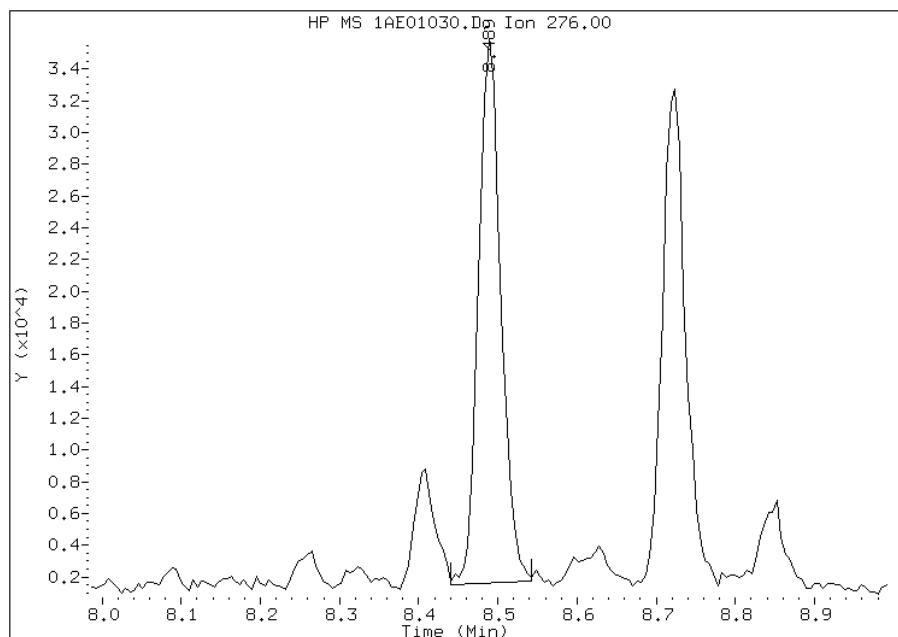


# Manual Integration Report

Data File: 1AE01030.D  
Inj. Date and Time: 01-MAY-2013 20:18  
Instrument ID: BSMA5973.i  
Client ID: CV1336B-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/05/2013

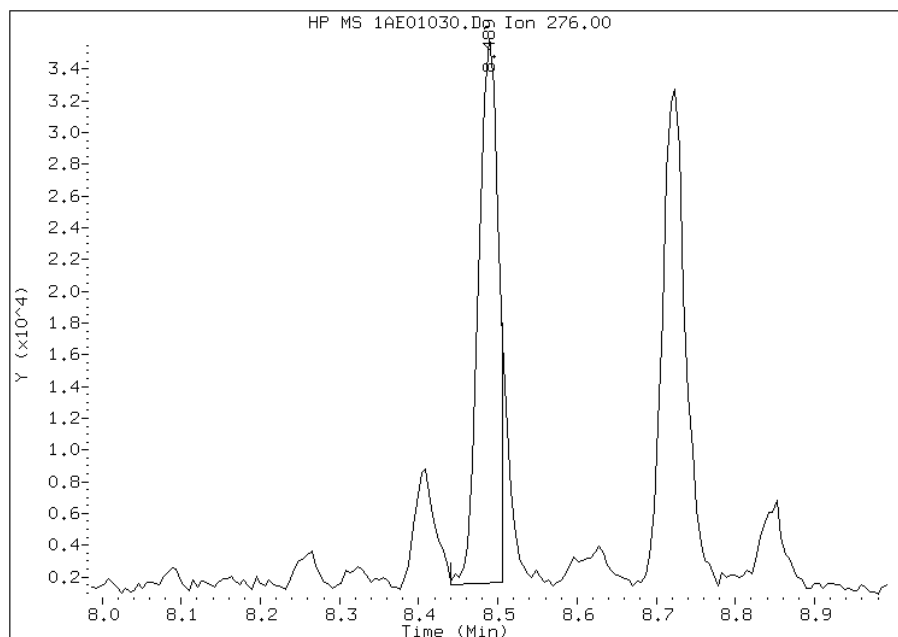
## Processing Integration Results

RT: 8.49  
Response: 66738  
Amount: 2  
Conc: 141



## Manual Integration Results

RT: 8.49  
Response: 59241  
Amount: 1  
Conc: 125



Manually Integrated By: cantins  
Modification Date: 05-May-2013 18:41  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: CV0790A-CS-SP Lab Sample ID: 680-89791-13  
 Matrix: Solid Lab File ID: 1AE01031.D  
 Analysis Method: 8270C LL Date Collected: 04/24/2013 13:41  
 Extract. Method: 3546 Date Extracted: 04/29/2013 14:27  
 Sample wt/vol: 14.98(g) Date Analyzed: 05/01/2013 20:33  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 25.5 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137001 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	540	U	540	110
208-96-8	Acenaphthylene	46	J	210	27
120-12-7	Anthracene	71		45	23
56-55-3	Benzo[a]anthracene	230		43	21
50-32-8	Benzo[a]pyrene	160		56	28
205-99-2	Benzo[b]fluoranthene	280		66	33
191-24-2	Benzo[g,h,i]perylene	110		110	24
207-08-9	Benzo[k]fluoranthene	82		43	19
218-01-9	Chrysene	270		48	24
53-70-3	Dibenz(a,h)anthracene	32	J	110	22
206-44-0	Fluoranthene	310		110	21
86-73-7	Fluorene	29	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	95	J	110	38
90-12-0	1-Methylnaphthalene	340		210	24
91-57-6	2-Methylnaphthalene	370		210	38
91-20-3	Naphthalene	320		210	24
85-01-8	Phenanthrene	390		43	21
129-00-0	Pyrene	220		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	51		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01031.D  
 Lab Smp Id: 680-89791-A-13-A Client Smp ID: CV0790A-CS-SP  
 Inj Date : 01-MAY-2013 20:33  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-89791-a-13-a  
 Misc Info : 680-89791-A-13-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\a-bFASTPAHi-m.m  
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 28  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	25.467	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.576	2.563	(1.000)	1304812	40.0000		
* 6 Acenaphthene-d10	164		3.602	3.594	(1.000)	695708	40.0000		
* 10 Phenanthrene-d10	188		4.558	4.544	(1.000)	1100078	40.0000		
\$ 14 o-Terphenyl	230		4.857	4.844	(1.066)	23120	1.28492	460.3384	
* 18 Chrysene-d12	240		6.604	6.574	(1.000)	1315039	40.0000		
* 23 Perylene-d12	264		7.705	7.659	(1.000)	1477858	40.0000		
2 Naphthalene	128		2.582	2.573	(1.002)	29144	0.89350	320.1091	
3 2-Methylnaphthalene	141		2.988	2.979	(1.160)	19491	1.04228	373.4086	
4 1-Methylnaphthalene	142		3.041	3.033	(1.180)	19381	0.93544	335.1343	
5 Acenaphthylene	152		3.511	3.503	(0.975)	5226	0.12853	46.0482(Q)	
9 Fluorene	166		3.933	3.925	(1.092)	2067	0.08057	28.8659(Q)	
11 Phenanthrene	178		4.574	4.560	(1.004)	34405	1.07964	386.7949	
12 Anthracene	178		4.606	4.593	(1.011)	6603	0.19928	71.3932(Q)	
13 Carbazole	167		4.745	4.726	(1.041)	4687	0.14663	52.5316	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	5.445	5.426	(1.195)	31866	0.86576	310.1675
16 Pyrene	202	5.611	5.592	(0.850)	30236	0.60267	215.9157
17 Benzo(a)anthracene	228	6.594	6.558	(0.998)	27598	0.64263	230.2305
19 Chrysene	228	6.615	6.590	(1.002)	32737	0.75138	269.1929
20 Benzo(b)fluoranthene	252	7.422	7.381	(0.963)	34832	0.77634	278.1337(M)
21 Benzo(k)fluoranthene	252	7.432	7.402	(0.965)	11776	0.22828	81.7844(QM)
22 Benzo(a)pyrene	252	7.646	7.605	(0.992)	19804	0.44369	158.9589
24 Indeno(1,2,3-cd)pyrene	276	8.501	8.423	(1.103)	11204	0.26585	95.2440(M)
25 Dibenzo(a,h)anthracene	278	8.517	8.450	(1.105)	3516	0.08966	32.1233
26 Benzo(g,h,i)perylene	276	8.730	8.642	(1.133)	14961	0.31719	113.6373(M)

QC Flag Legend

Q - Qualifier signal failed the ratio test.  
M - Compound response manually integrated.

Data File: 1AE01031.D

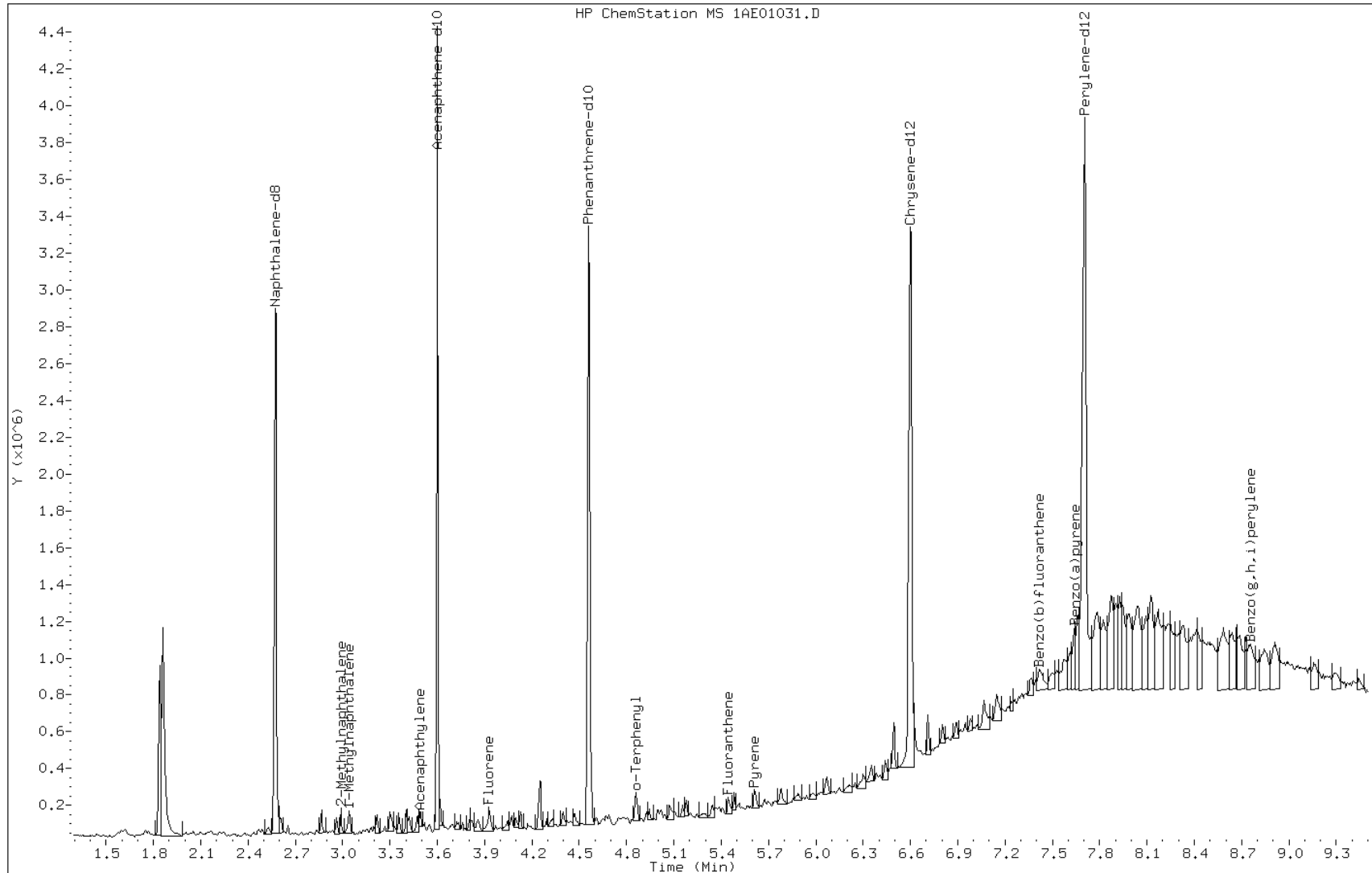
Date: 01-MAY-2013 20:33

Client ID: CV0790A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-13-a

Operator: SCC



Data File: 1AE01031.D

Date: 01-MAY-2013 20:33

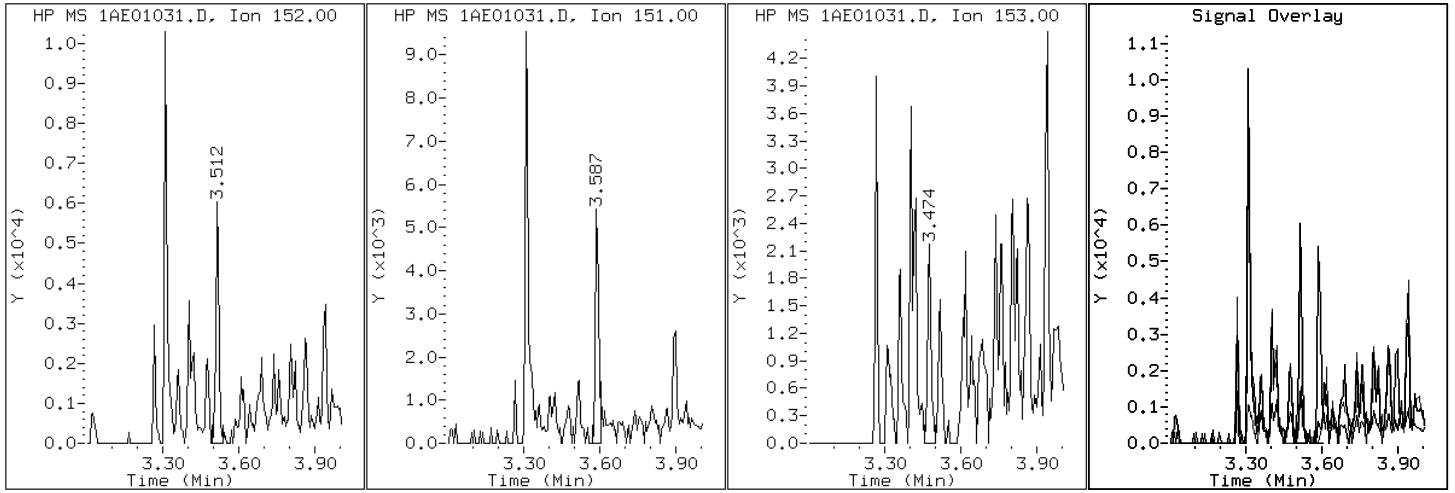
Client ID: CV0790A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-13-a

Operator: SCC

5 Acenaphthylene



Data File: 1AE01031.D

Date: 01-MAY-2013 20:33

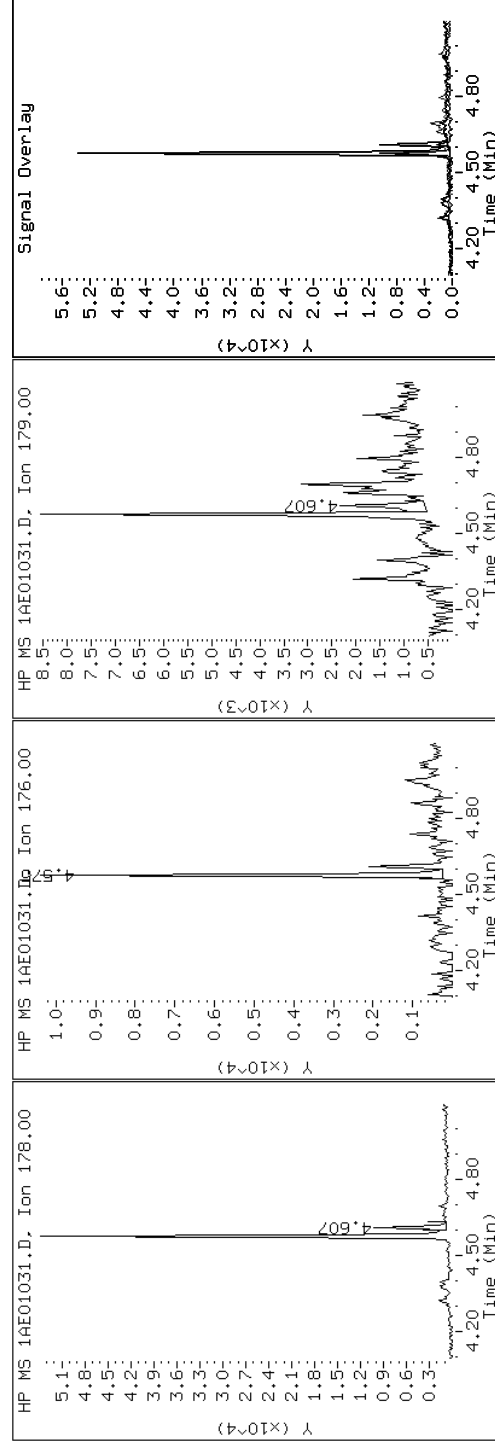
Client ID: CV0790A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-13-a

Operator: SCC

### 12 Anthracene



Data File: 1AE01031.D

Date: 01-MAY-2013 20:33

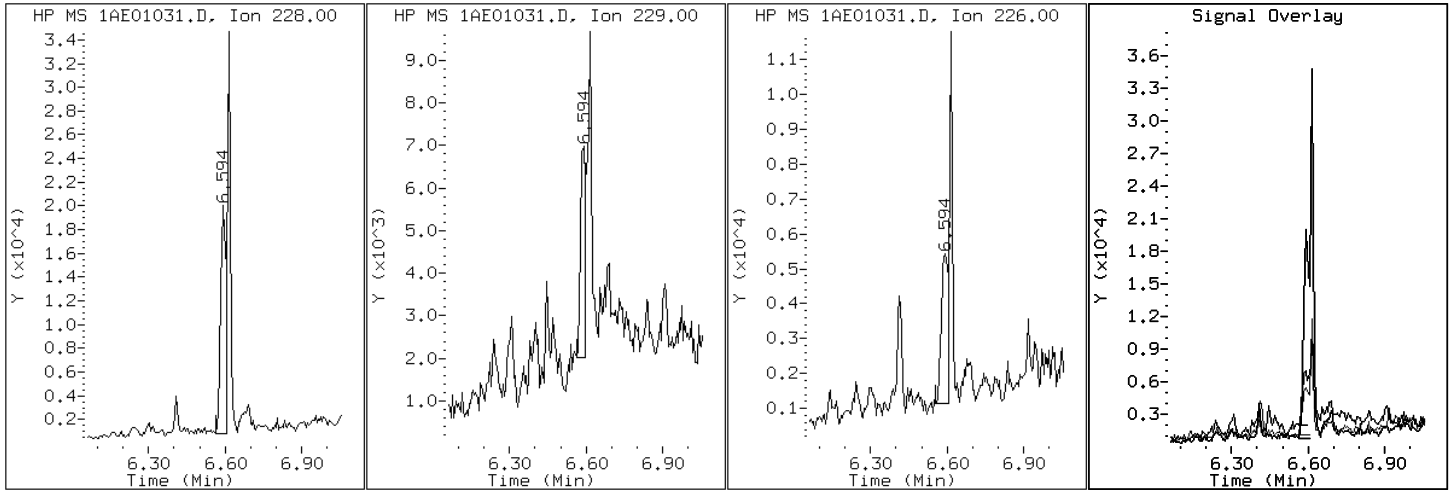
Client ID: CV0790A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-13-a

Operator: SCC

17 Benzo(a)anthracene





Data File: 1AE01031.D

Date: 01-MAY-2013 20:33

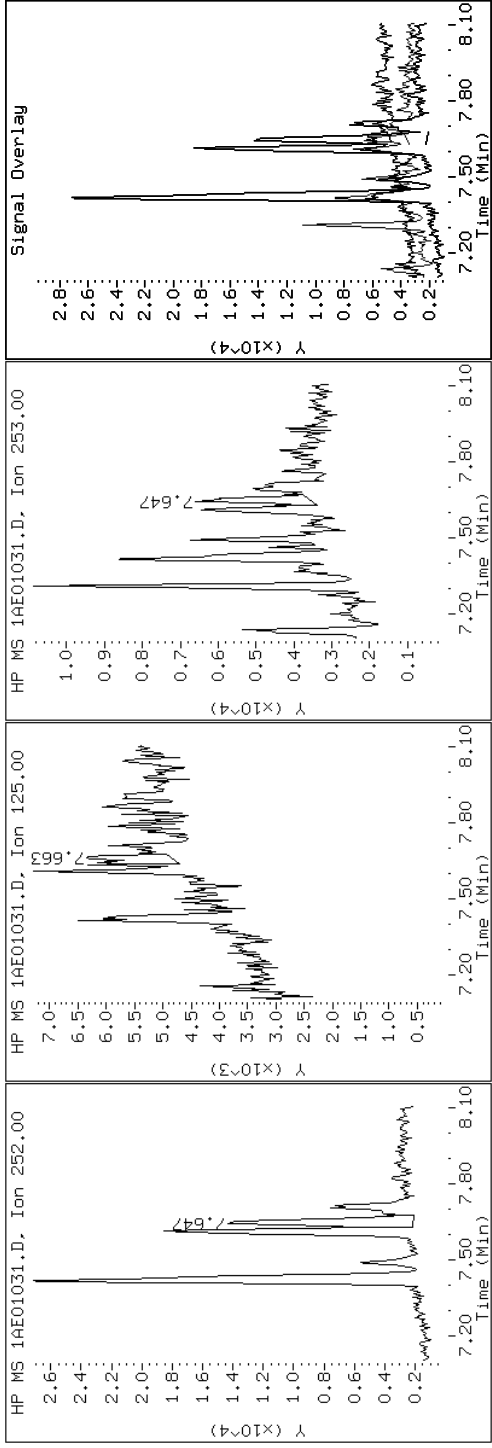
Client ID: CV0790A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-13-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AE01031.D

Date: 01-MAY-2013 20:33

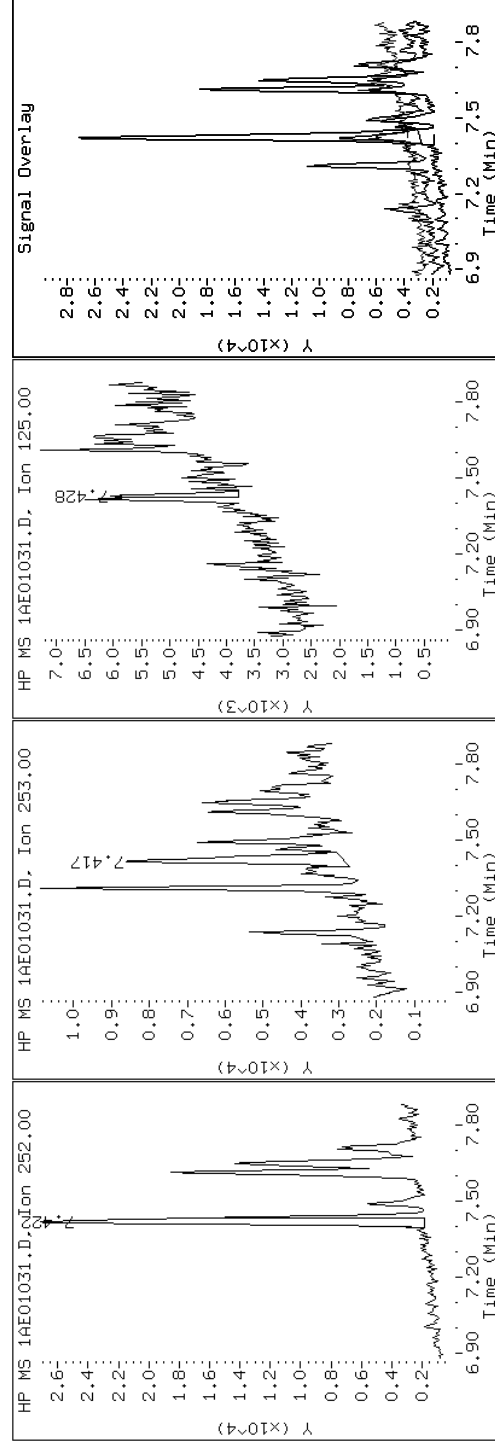
Client ID: CV0790A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-13-a

Operator: SCC

### 20 Benzo(b)fluoranthene



Data File: 1AE01031.D

Date: 01-MAY-2013 20:33

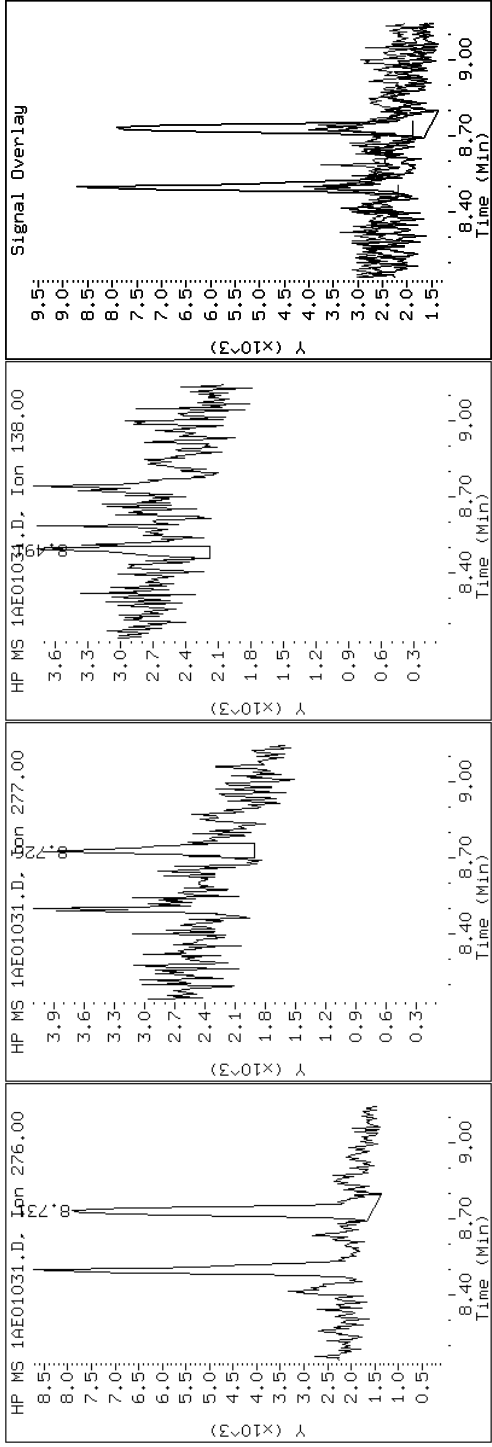
Client ID: CV0790A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-13-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AE01031.D

Date: 01-MAY-2013 20:33

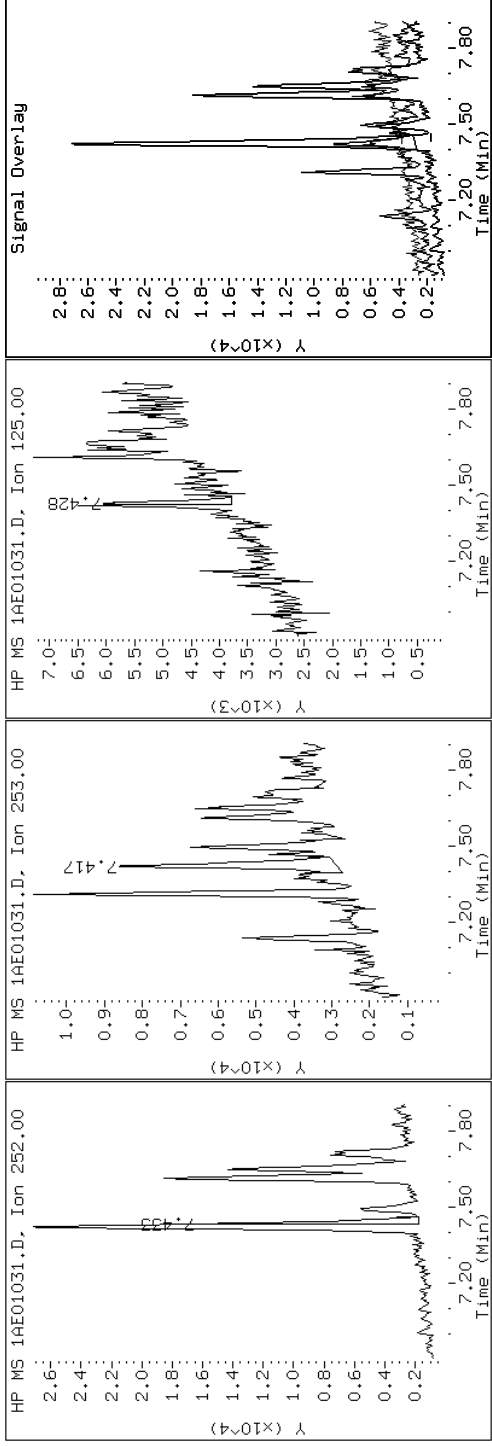
Client ID: CV0790A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-13-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AE01031.D

Date: 01-MAY-2013 20:33

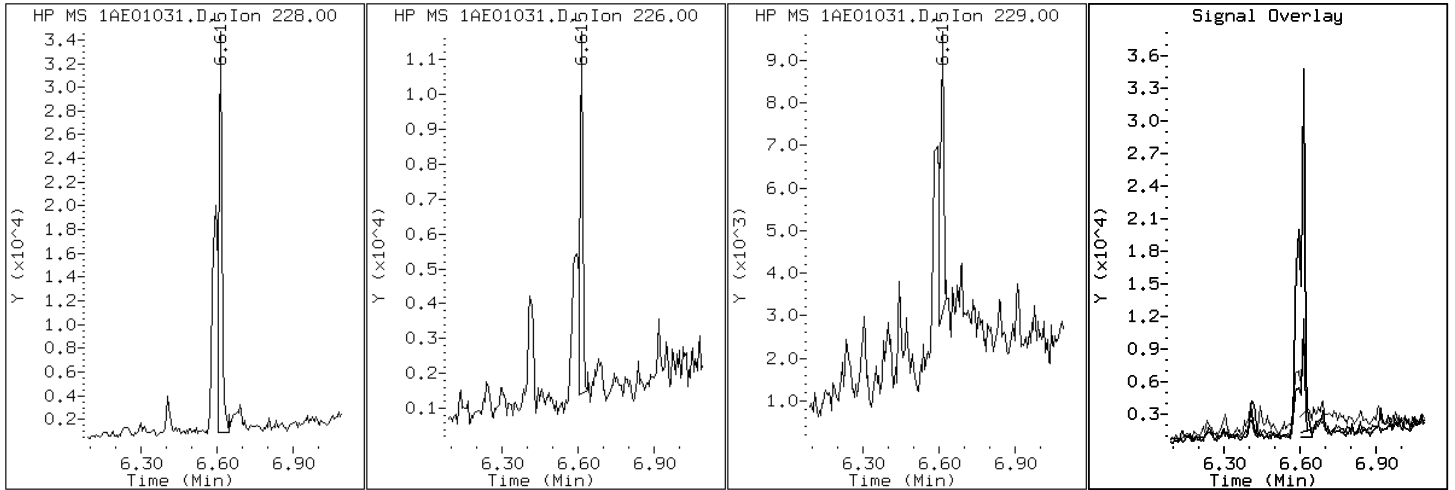
Client ID: CV0790A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-13-a

Operator: SCC

19 Chrysene



Data File: 1AE01031.D

Date: 01-MAY-2013 20:33

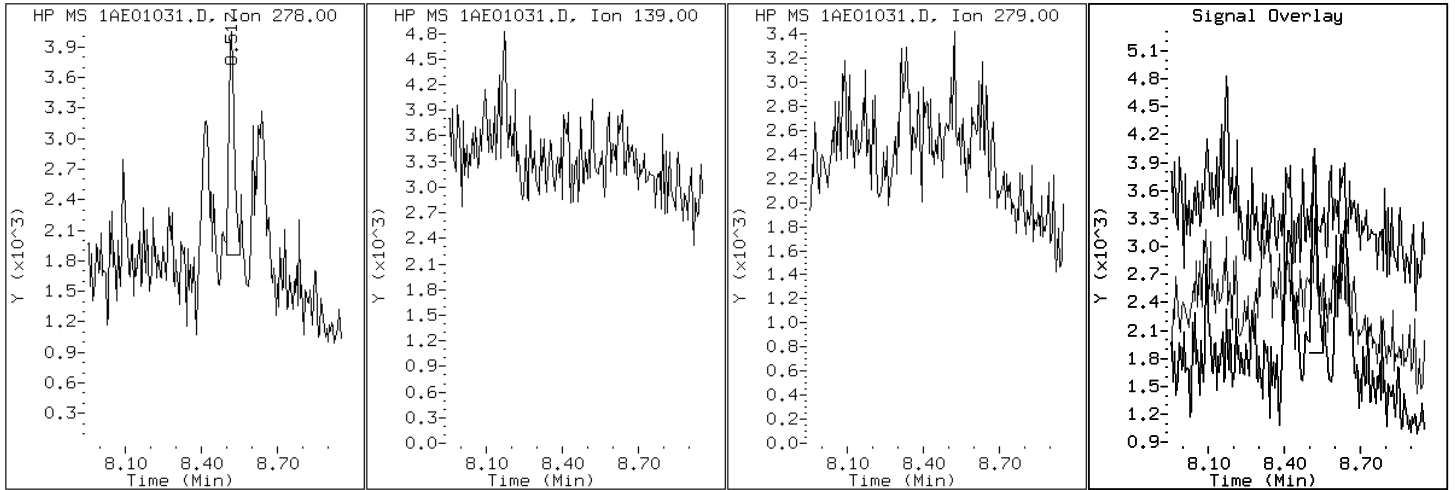
Client ID: CV0790A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-13-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AE01031.D

Date: 01-MAY-2013 20:33

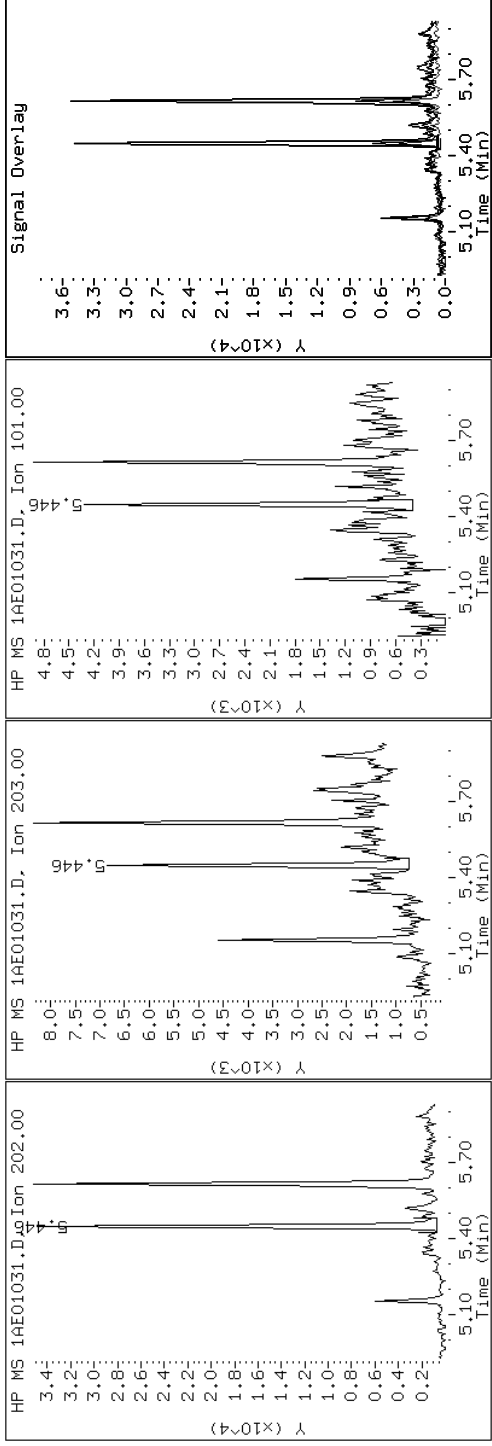
Client ID: CV0790A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-13-a

Operator: SCC

15 Fluoranthene



Data File: 1AE01031.D

Date: 01-MAY-2013 20:33

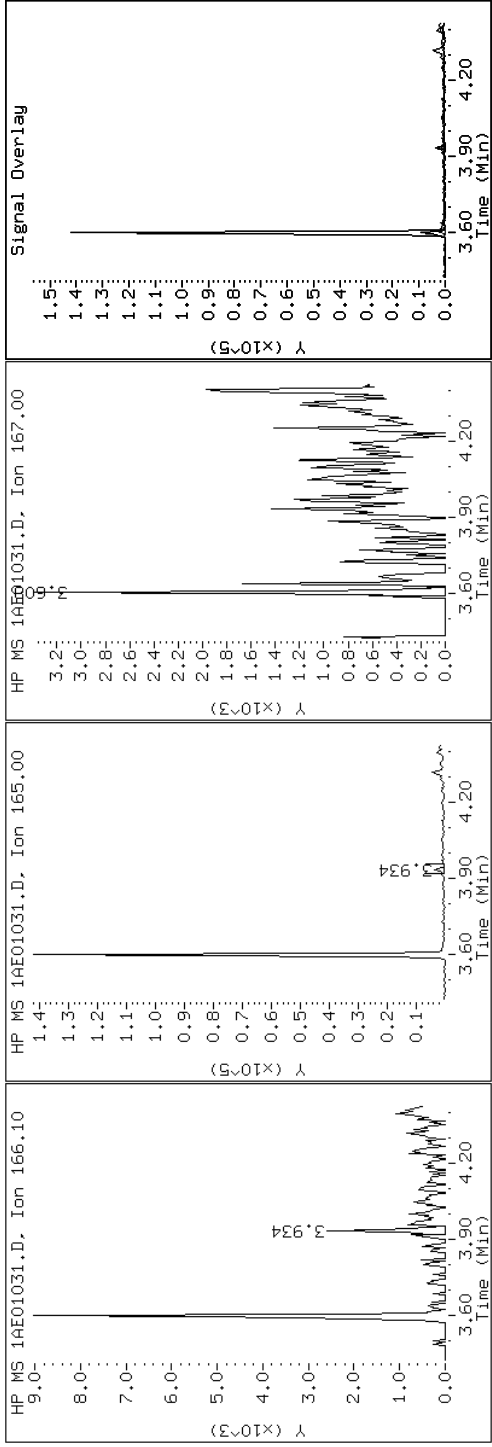
Client ID: CV0790A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-13-a

Operator: SCC

9 Fluorene





Data File: 1AE01031.D

Date: 01-MAY-2013 20:33

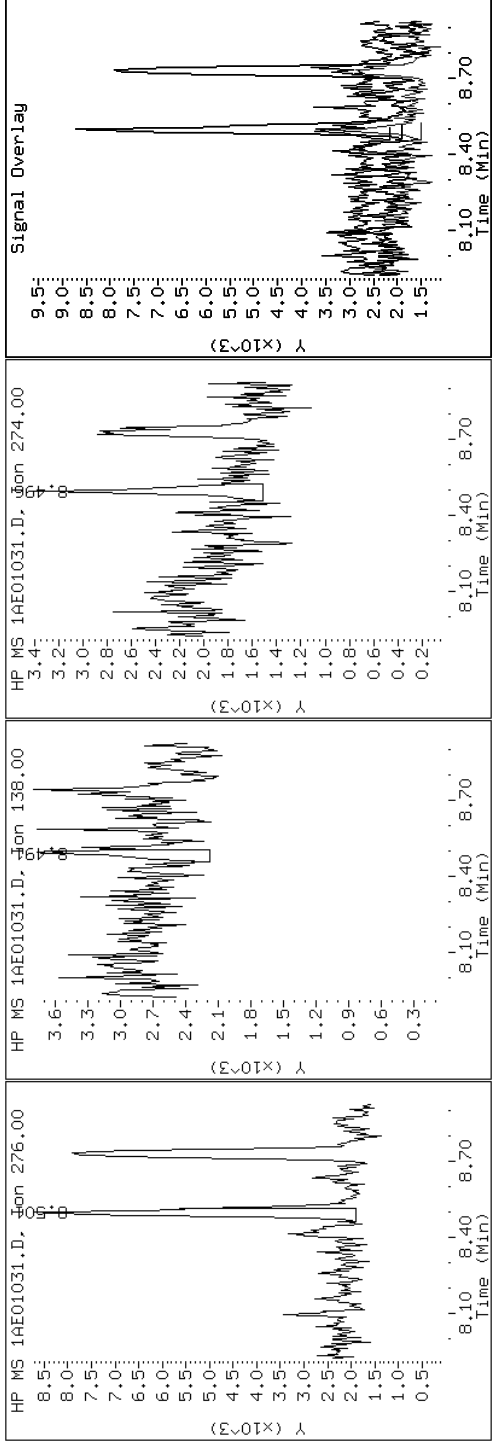
Client ID: CV0790A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-13-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



Data File: 1AE01031.D

Date: 01-MAY-2013 20:33

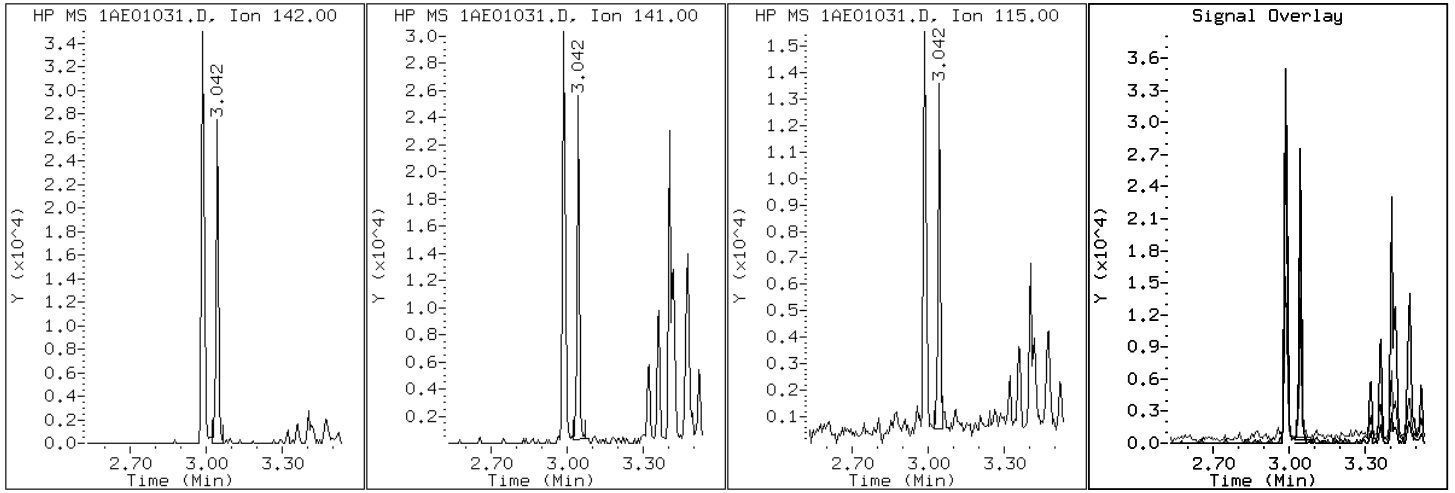
Client ID: CV0790A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-13-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE01031.D

Date: 01-MAY-2013 20:33

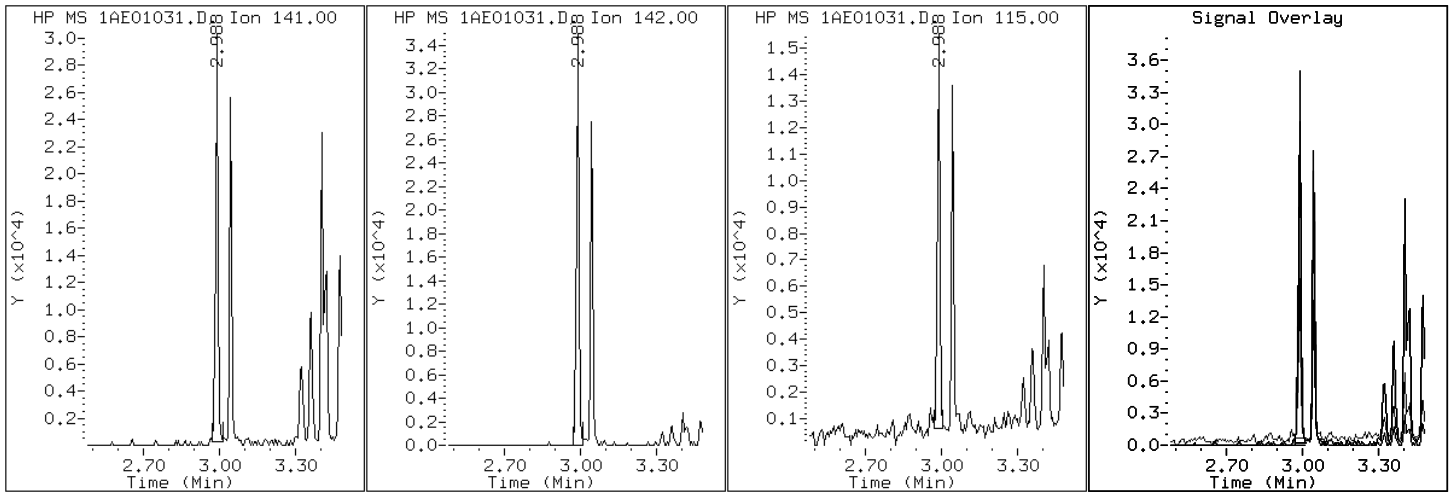
Client ID: CV0790A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-13-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AE01031.D

Date: 01-MAY-2013 20:33

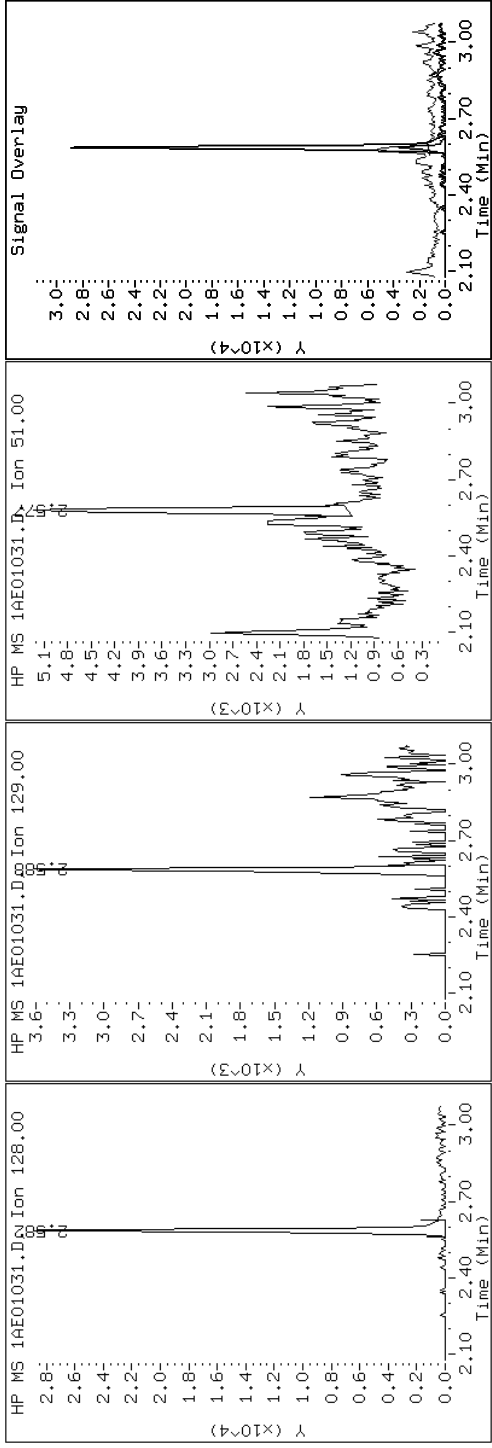
Client ID: CV0790A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-13-a

Operator: SCC

2 Naphthalene



Data File: 1AE01031.D

Date: 01-MAY-2013 20:33

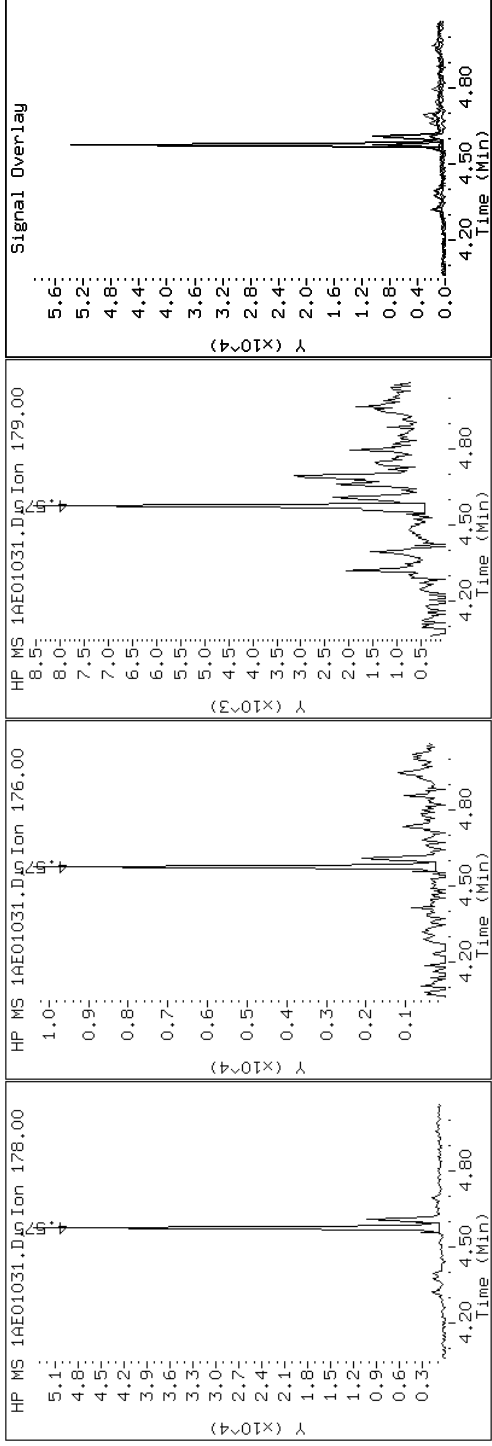
Client ID: CV0790A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-13-a

Operator: SCC

11 Phenanthrene



Data File: 1AE01031.D

Date: 01-MAY-2013 20:33

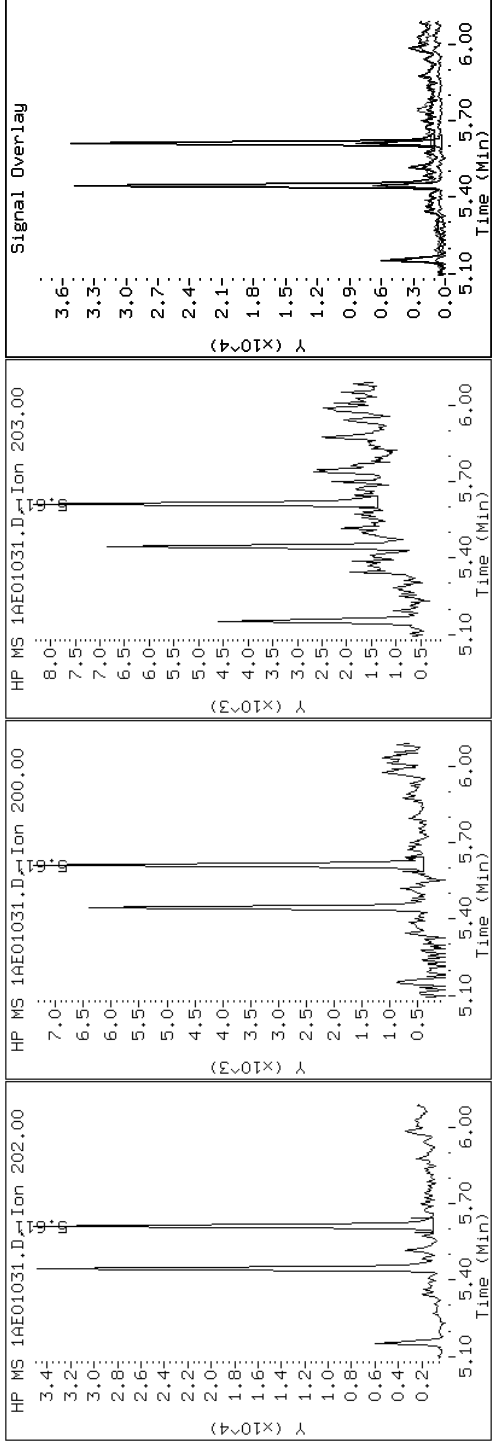
Client ID: CV0790A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-13-a

Operator: SCC

16 Pyrene

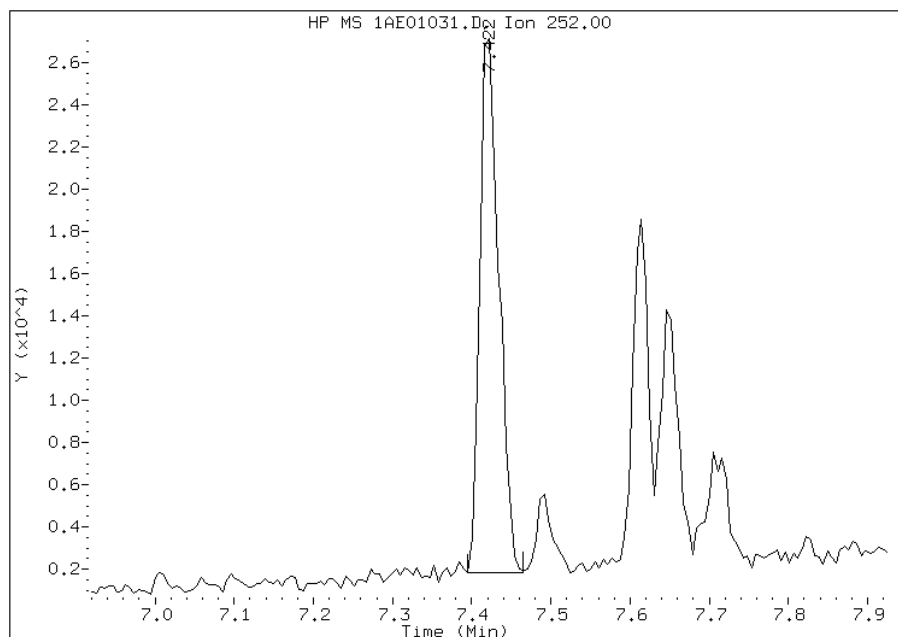


# Manual Integration Report

Data File: 1AE01031.D  
Inj. Date and Time: 01-MAY-2013 20:33  
Instrument ID: BSMA5973.i  
Client ID: CV0790A-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 05/05/2013

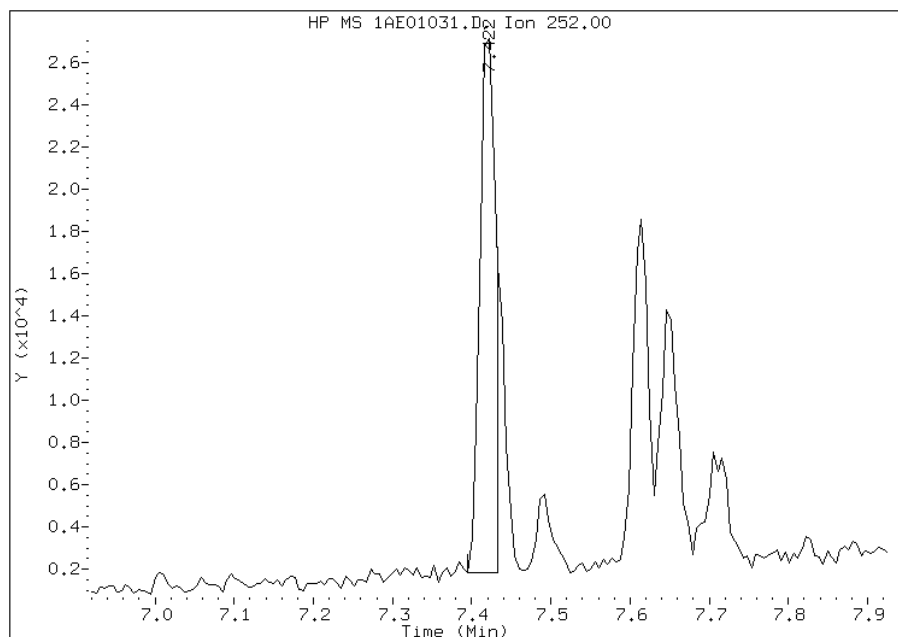
## Processing Integration Results

RT: 7.42  
Response: 41778  
Amount: 1  
Conc: 334



## Manual Integration Results

RT: 7.42  
Response: 34832  
Amount: 1  
Conc: 278



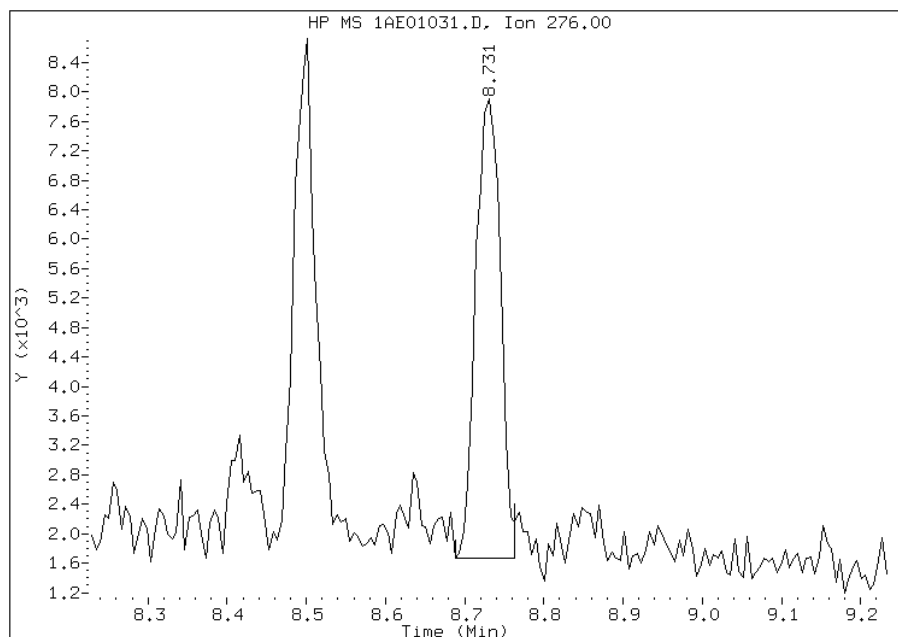
Manually Integrated By: cantins  
Modification Date: 05-May-2013 18:42  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AE01031.D  
Inj. Date and Time: 01-MAY-2013 20:33  
Instrument ID: BSMA5973.i  
Client ID: CV0790A-CS-SP  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 05/05/2013

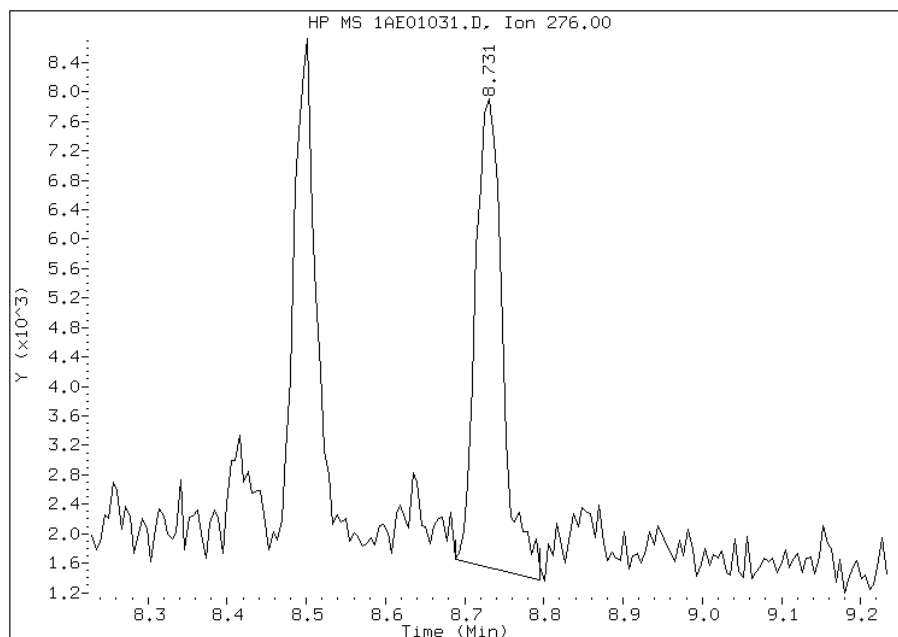
## Processing Integration Results

RT: 8.73  
Response: 13454  
Amount: 0  
Conc: 102



## Manual Integration Results

RT: 8.73  
Response: 14961  
Amount: 0  
Conc: 114



Manually Integrated By: cantins  
Modification Date: 05-May-2013 18:43  
Manual Integration Reason: Baseline Event

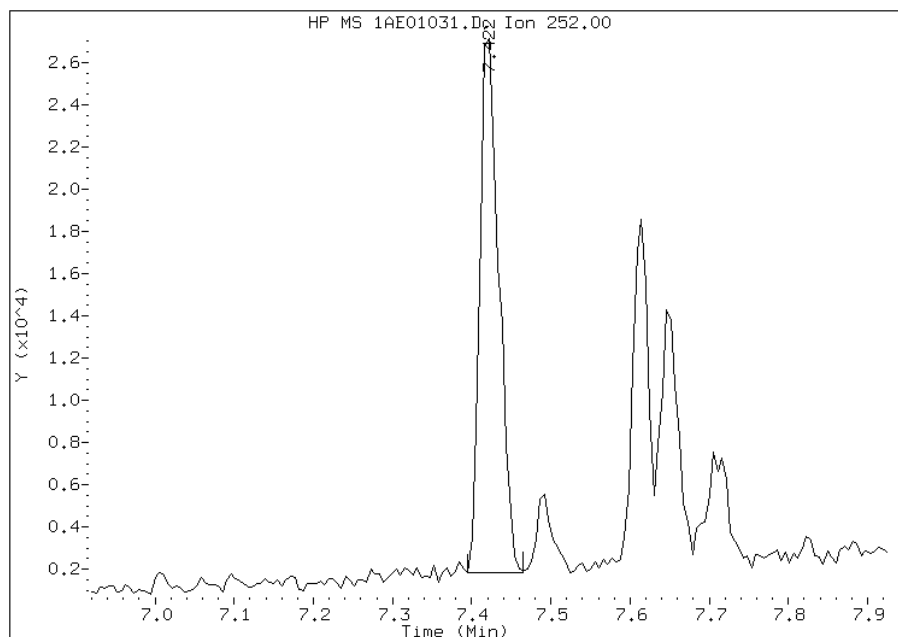


# Manual Integration Report

Data File: 1AE01031.D  
Inj. Date and Time: 01-MAY-2013 20:33  
Instrument ID: BSMA5973.i  
Client ID: CV0790A-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 05/05/2013

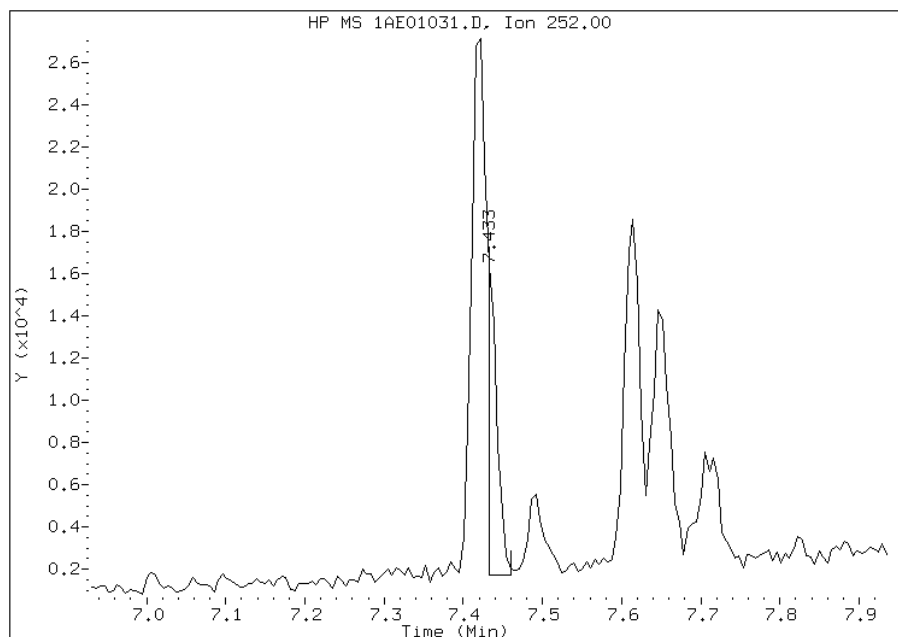
## Processing Integration Results

RT: 7.42  
Response: 41778  
Amount: 1  
Conc: 290



## Manual Integration Results

RT: 7.43  
Response: 11776  
Amount: 0  
Conc: 82



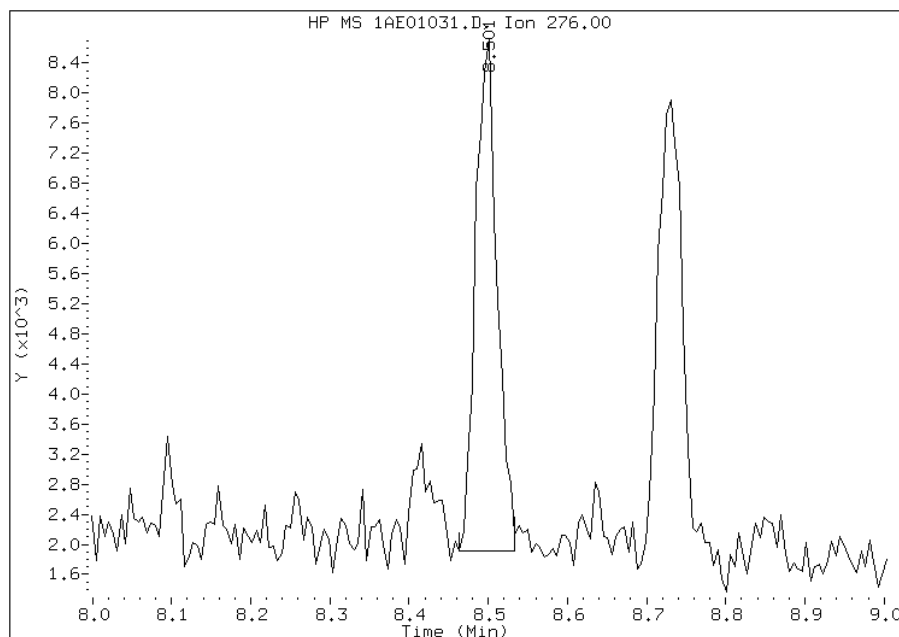
Manually Integrated By: cantins  
Modification Date: 05-May-2013 18:42  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE01031.D  
Inj. Date and Time: 01-MAY-2013 20:33  
Instrument ID: BSMA5973.i  
Client ID: CV0790A-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/05/2013

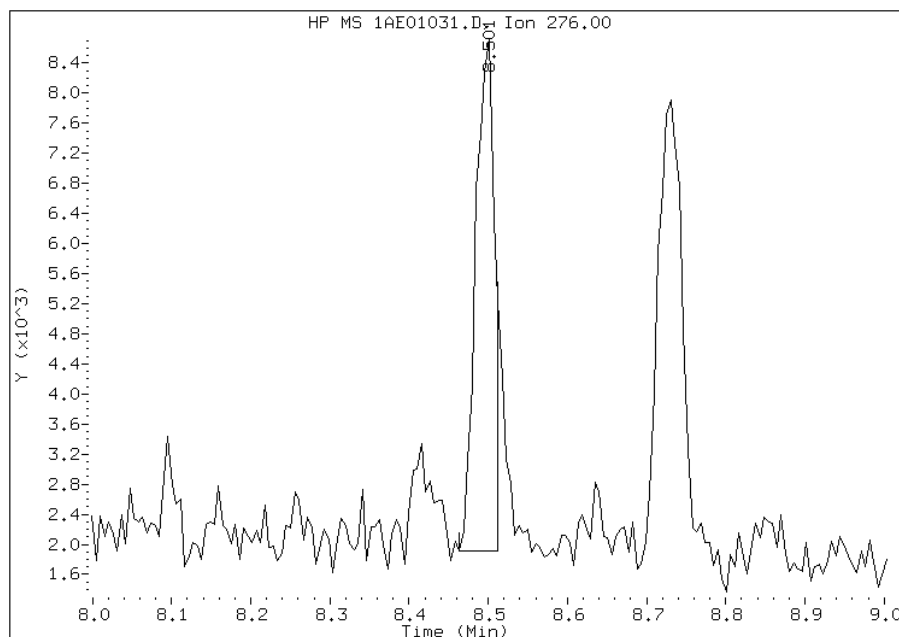
## Processing Integration Results

RT: 8.50  
Response: 12690  
Amount: 0  
Conc: 108



## Manual Integration Results

RT: 8.50  
Response: 11204  
Amount: 0  
Conc: 95



Manually Integrated By: cantins  
Modification Date: 05-May-2013 18:43  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: CV0790B-CS-SP Lab Sample ID: 680-89791-14  
 Matrix: Solid Lab File ID: 1AE01032.D  
 Analysis Method: 8270C LL Date Collected: 04/24/2013 13:52  
 Extract. Method: 3546 Date Extracted: 04/29/2013 14:27  
 Sample wt/vol: 15.05(g) Date Analyzed: 05/01/2013 20:48  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 26.9 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137001 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	550	U	550	110
208-96-8	Acenaphthylene	62	J	220	27
120-12-7	Anthracene	95		46	23
56-55-3	Benzo[a]anthracene	210		44	21
50-32-8	Benzo[a]pyrene	160		57	28
205-99-2	Benzo[b]fluoranthene	260		67	33
191-24-2	Benzo[g,h,i]perylene	95	J	110	24
207-08-9	Benzo[k]fluoranthene	140		44	20
218-01-9	Chrysene	230		49	25
53-70-3	Dibenz(a,h)anthracene	110	U	110	22
206-44-0	Fluoranthene	250		110	22
86-73-7	Fluorene	24	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	91	J	110	39
90-12-0	1-Methylnaphthalene	180	J	220	24
91-57-6	2-Methylnaphthalene	180	J	220	39
91-20-3	Naphthalene	130	J	220	24
85-01-8	Phenanthrene	220		44	21
129-00-0	Pyrene	180		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	47		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01032.D  
 Lab Smp Id: 680-89791-A-14-A Client Smp ID: CV0790B-CS-SP  
 Inj Date : 01-MAY-2013 20:48  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-89791-a-14-a  
 Misc Info : 680-89791-A-14-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\A-BFASTPAHi-m.m  
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 29  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	26.940	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.573	2.563	(1.000)	1295623	40.0000	
* 6 Acenaphthene-d10	164		3.604	3.594	(1.000)	684765	40.0000	
* 10 Phenanthrene-d10	188		4.560	4.544	(1.000)	1055982	40.0000	
\$ 14 o-Terphenyl	230		4.859	4.844	(1.066)	20188	1.16882	425.1970
* 18 Chrysene-d12	240		6.601	6.574	(1.000)	1298759	40.0000	
* 23 Perylene-d12	264		7.706	7.659	(1.000)	1448714	40.0000	
2 Naphthalene	128		2.583	2.573	(1.004)	11729	0.36214	131.7406
3 2-Methylnaphthalene	141		2.989	2.979	(1.162)	9007	0.48506	176.4575
4 1-Methylnaphthalene	142		3.043	3.033	(1.183)	9903	0.48137	175.1134
5 Acenaphthylene	152		3.513	3.503	(0.975)	6859	0.17139	62.3491
9 Fluorene	166		3.935	3.925	(1.092)	1647	0.06523	23.7282(M)
11 Phenanthrene	178		4.576	4.560	(1.004)	18301	0.59827	217.6414
12 Anthracene	178		4.608	4.593	(1.011)	8285	0.26048	94.7579
13 Carbazole	167		4.747	4.726	(1.041)	2558	0.08337	30.3273(Q)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.447	5.426 (1.194)		24379	0.69000	251.0107
16 Pyrene	202	5.612	5.592 (0.850)		25142	0.50742	184.5909
17 Benzo(a)anthracene	228	6.595	6.558 (0.999)		24466	0.57684	209.8451
19 Chrysene	228	6.617	6.590 (1.002)		27326	0.63505	231.0209
20 Benzo(b)fluoranthene	252	7.418	7.381 (0.963)		31943	0.72627	264.2053(M)
21 Benzo(k)fluoranthene	252	7.423	7.402 (0.963)		19269	0.38105	138.6189(M)
22 Benzo(a)pyrene	252	7.642	7.605 (0.992)		19177	0.43829	159.4422
24 Indeno(1,2,3-cd)pyrene	276	8.481	8.423 (1.101)		10288	0.24903	90.5912
25 Dibenzo(a,h)anthracene	278	8.497	8.450 (1.103)		2236	0.05817	21.1608(aQ)
26 Benzo(g,h,i)perylene	276	8.705	8.642 (1.130)		12086	0.26139	95.0897

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: 1AE01032.D

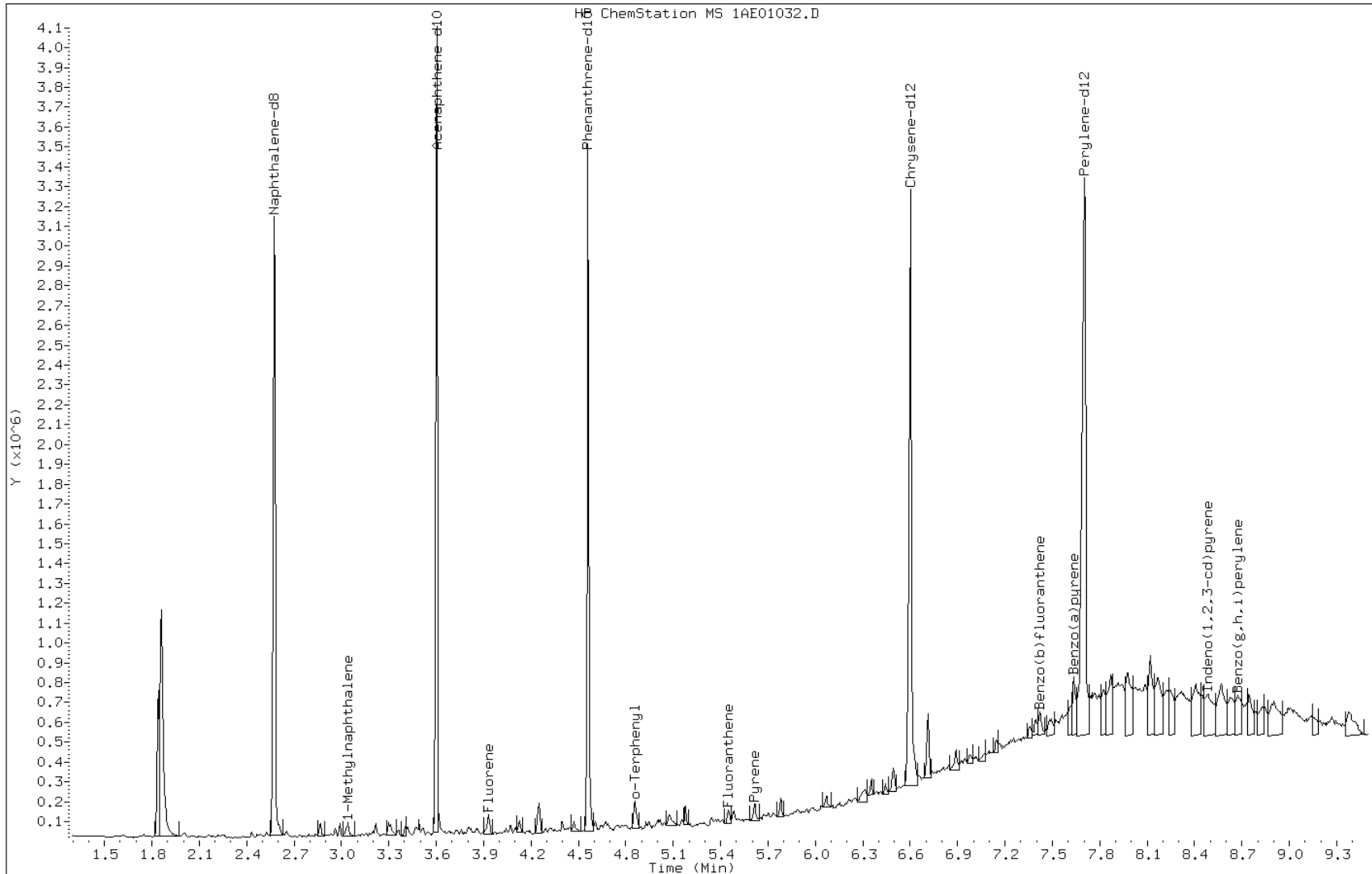
Date: 01-MAY-2013 20:48

Client ID: CV0790B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-14-a

Operator: SCC



Data File: 1AE01032.D

Date: 01-MAY-2013 20:48

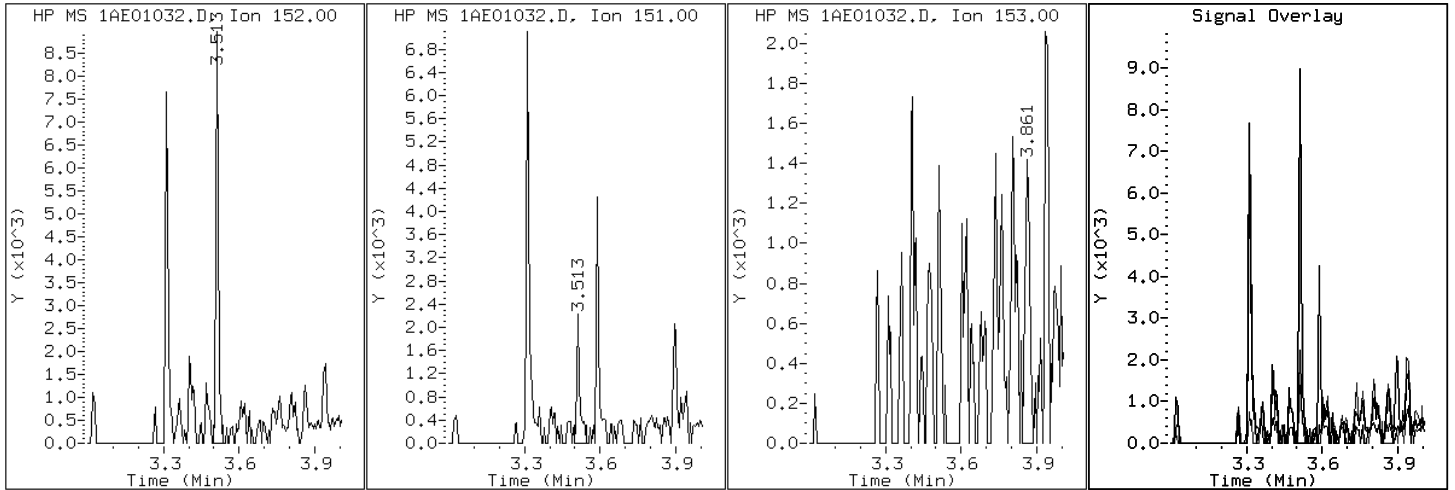
Client ID: CV0790B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-14-a

Operator: SCC

5 Acenaphthylene



Data File: 1AE01032.D

Date: 01-MAY-2013 20:48

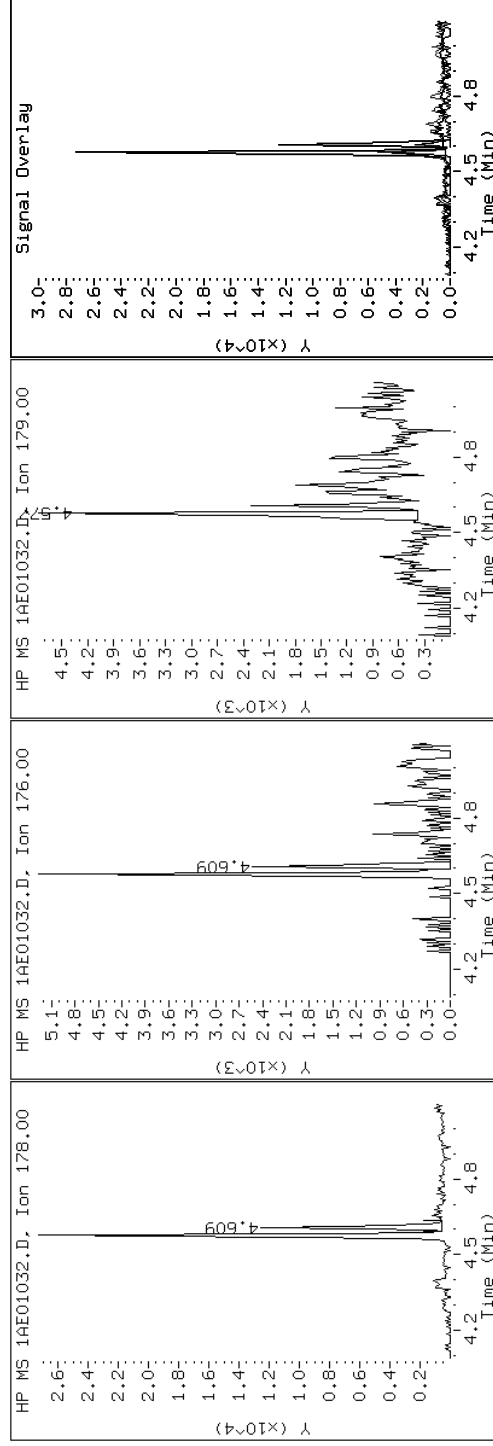
Client ID: CV0790B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-14-a

Operator: SCC

12 Anthracene





Data File: 1AE01032.D

Date: 01-MAY-2013 20:48

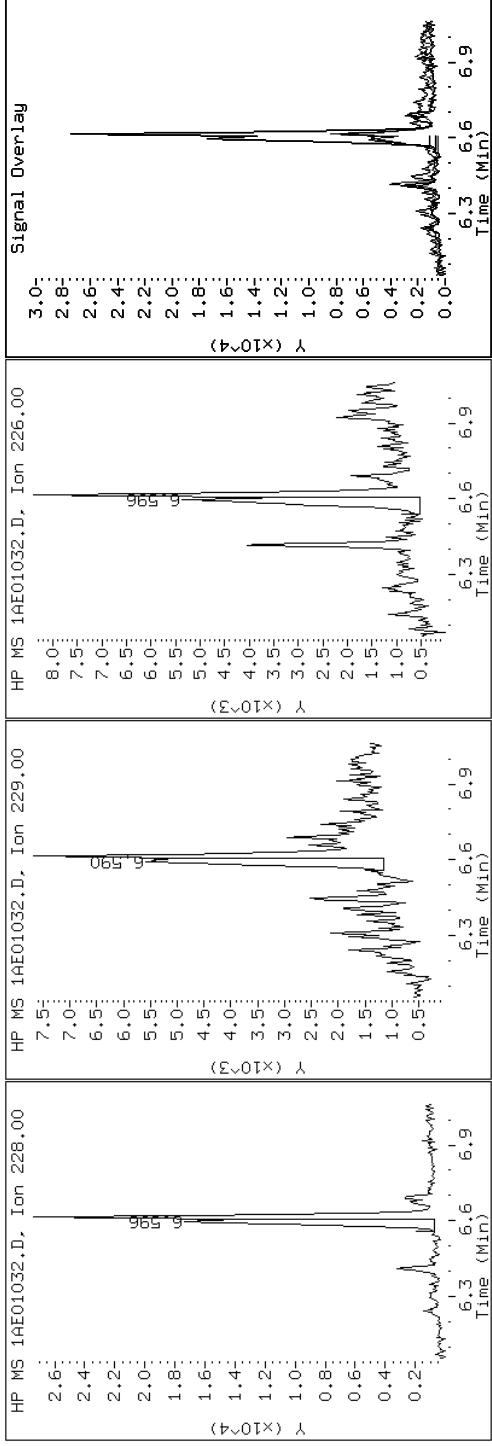
Client ID: CV0790B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-14-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AE01032.D

Date: 01-MAY-2013 20:48

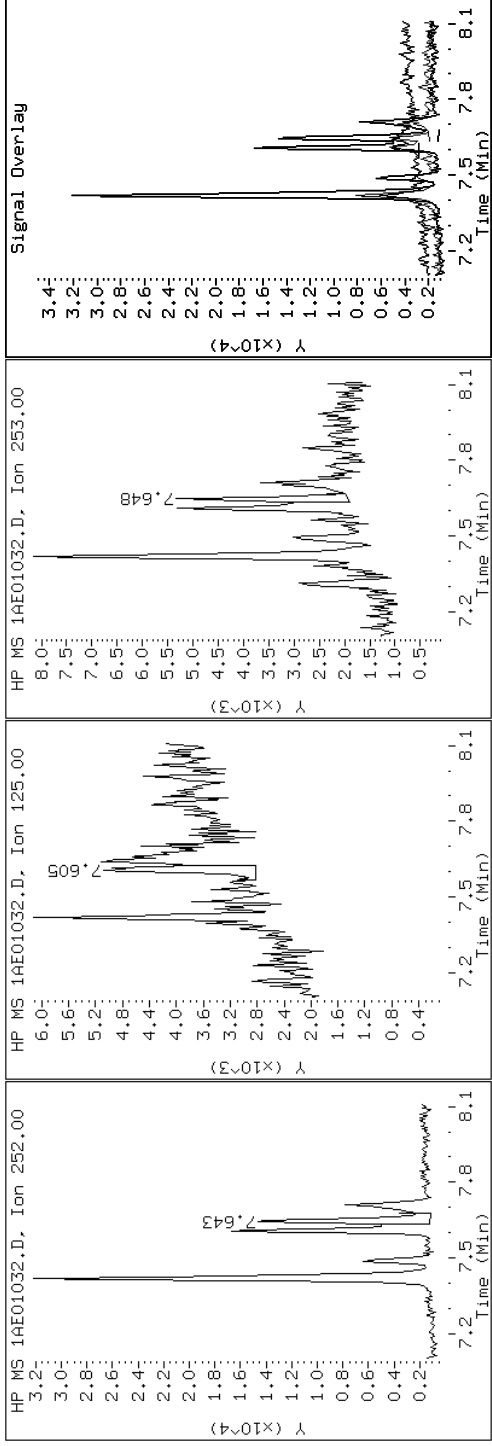
Client ID: CV0790B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-14-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AE01032.D

Date: 01-MAY-2013 20:48

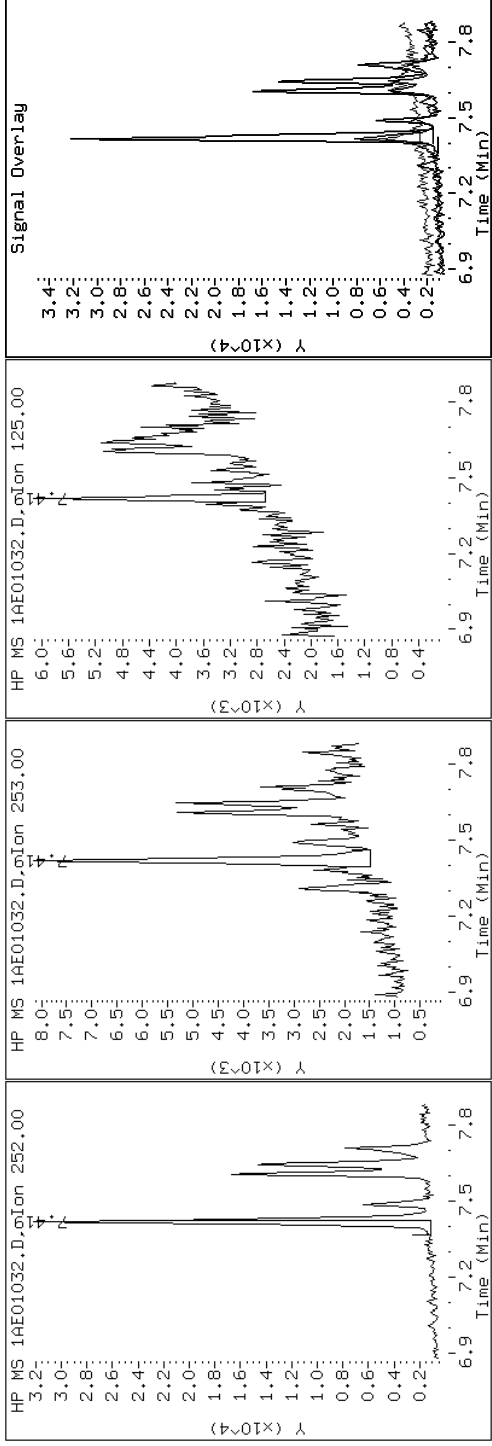
Client ID: CV0790B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-14-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AE01032.D

Date: 01-MAY-2013 20:48

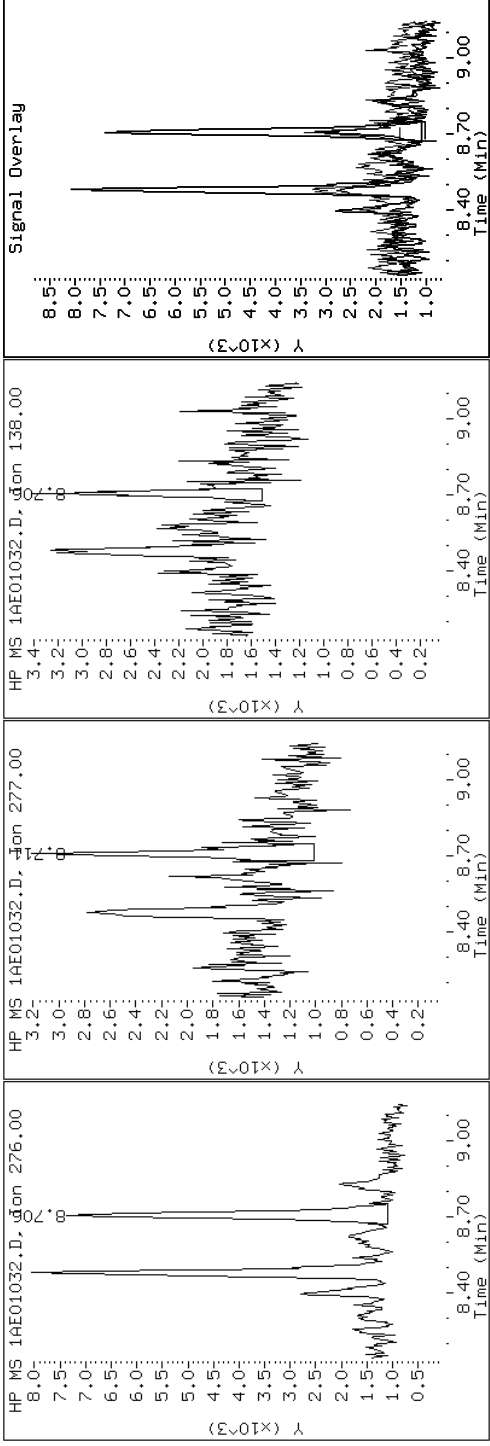
Client ID: CV0790B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-14-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AE01032.D

Date: 01-MAY-2013 20:48

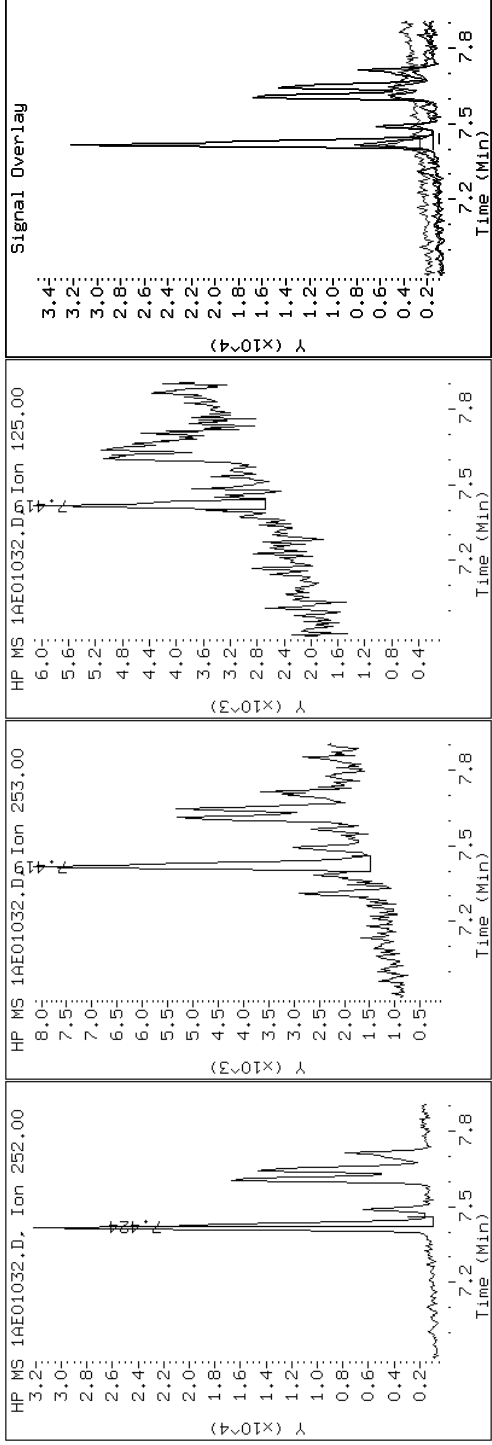
Client ID: CV0790B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-14-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AE01032.D

Date: 01-MAY-2013 20:48

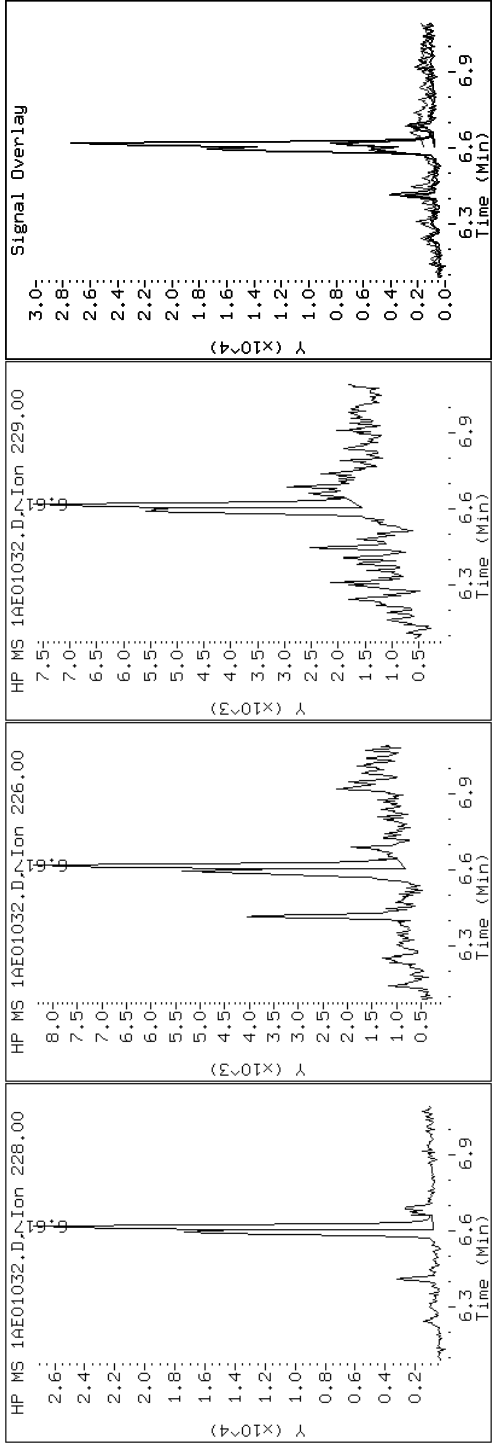
Client ID: CV0790B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-14-a

Operator: SCC

19 Chrysene



Data File: 1AE01032.D

Date: 01-MAY-2013 20:48

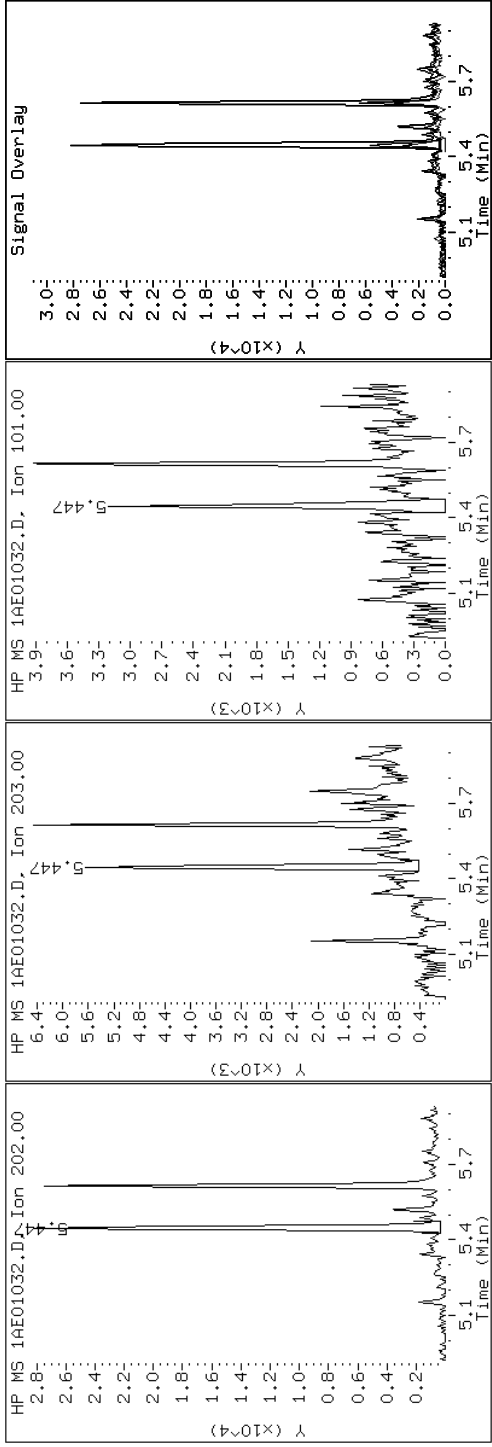
Client ID: CV0790B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-14-a

Operator: SCC

15 Fluoranthene



Data File: 1AE01032.D

Date: 01-MAY-2013 20:48

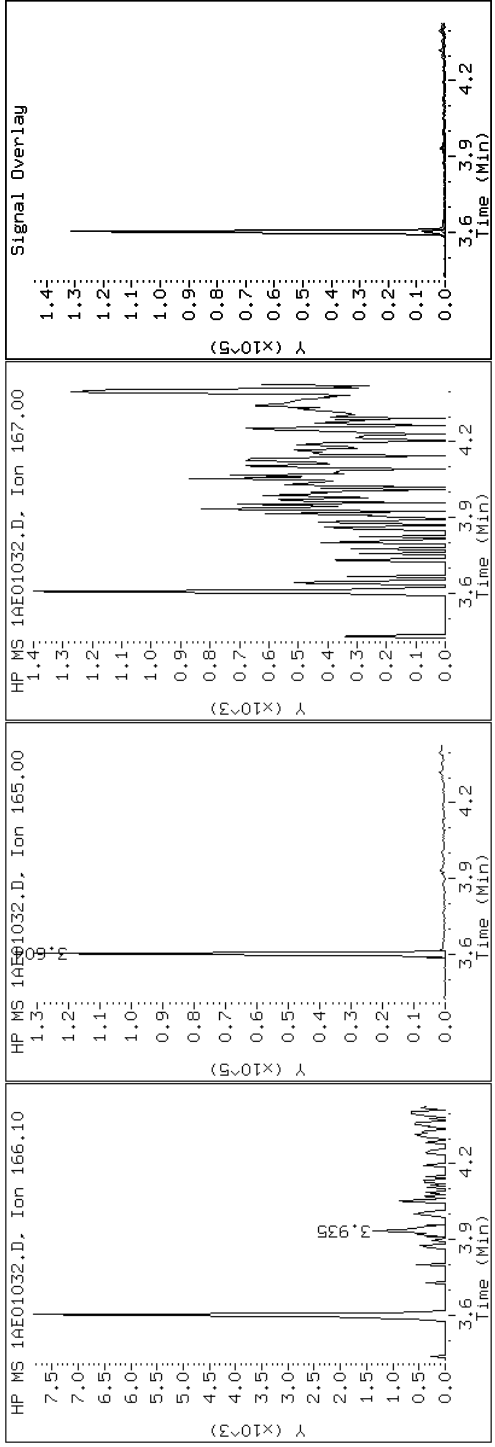
Client ID: CV0790B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-14-a

Operator: SCC

9 Fluorene





Data File: 1AE01032.D

Date: 01-MAY-2013 20:48

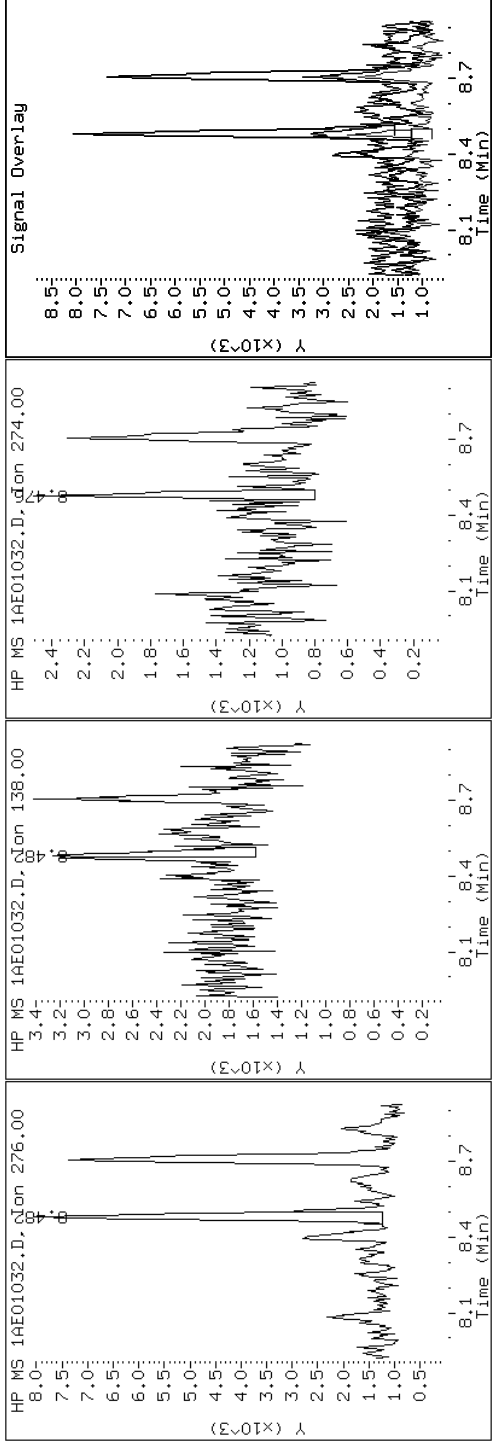
Client ID: CV0790B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-14-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



Data File: 1AE01032.D

Date: 01-MAY-2013 20:48

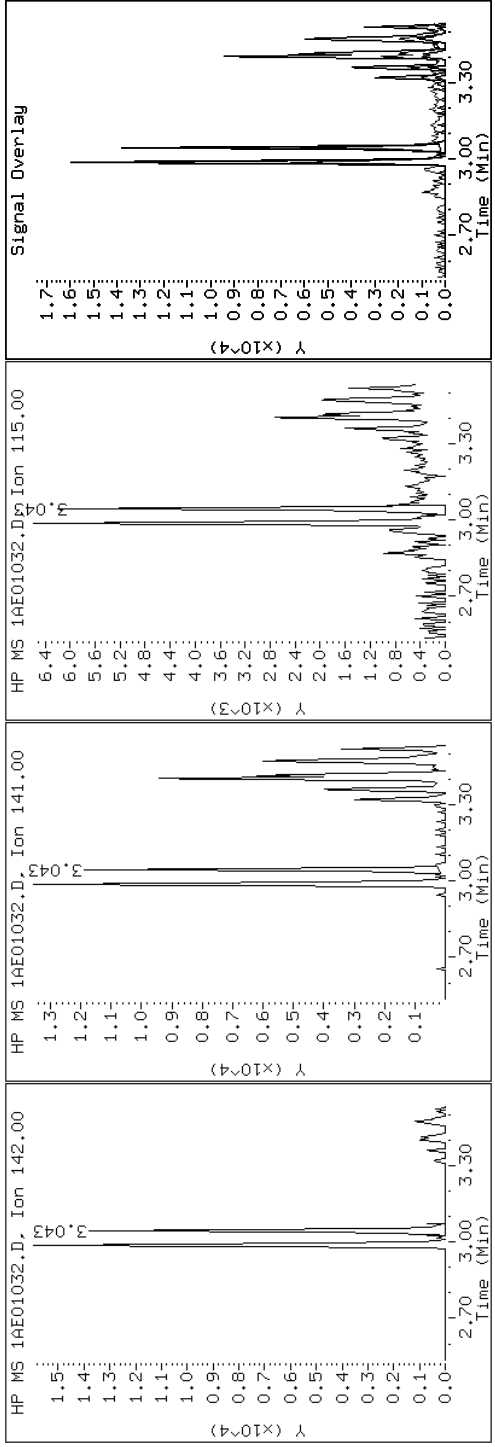
Client ID: CV0790B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-14-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE01032.D

Date: 01-MAY-2013 20:48

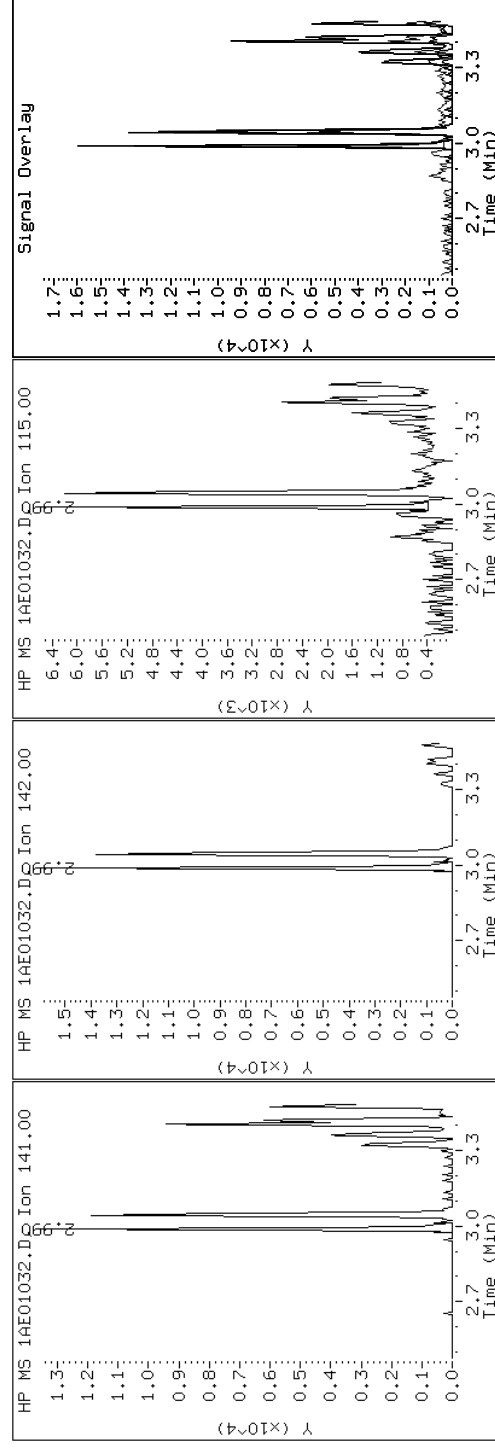
Client ID: CV0790B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-14-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1AE01032.D

Date: 01-MAY-2013 20:48

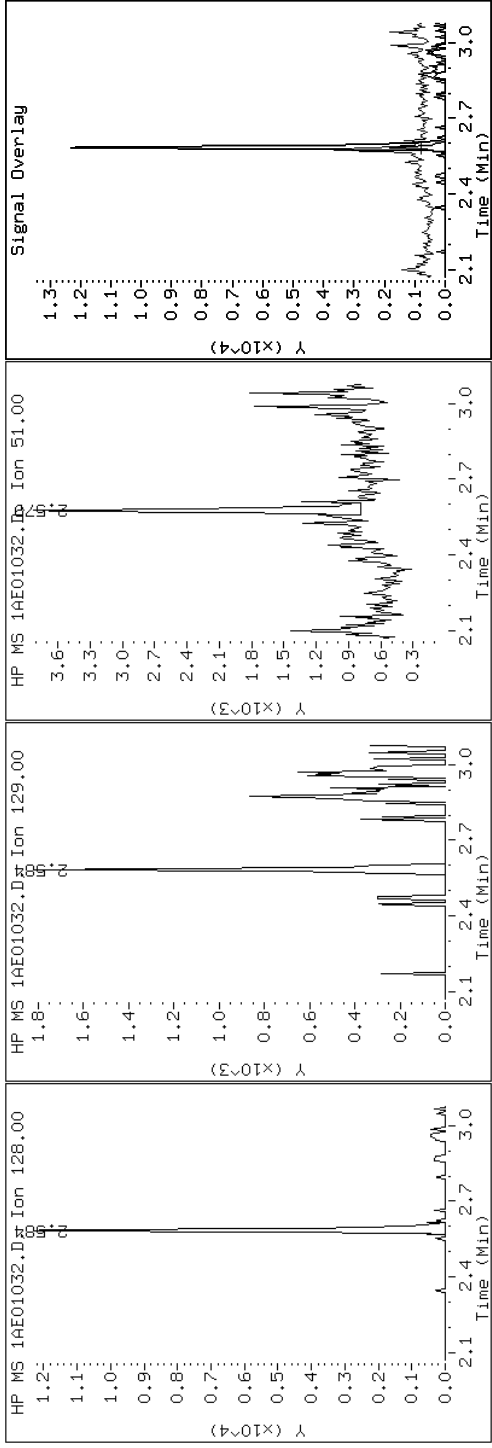
Client ID: CV0790B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-14-a

Operator: SCC

2 Naphthalene



Data File: 1AE01032.D

Date: 01-MAY-2013 20:48

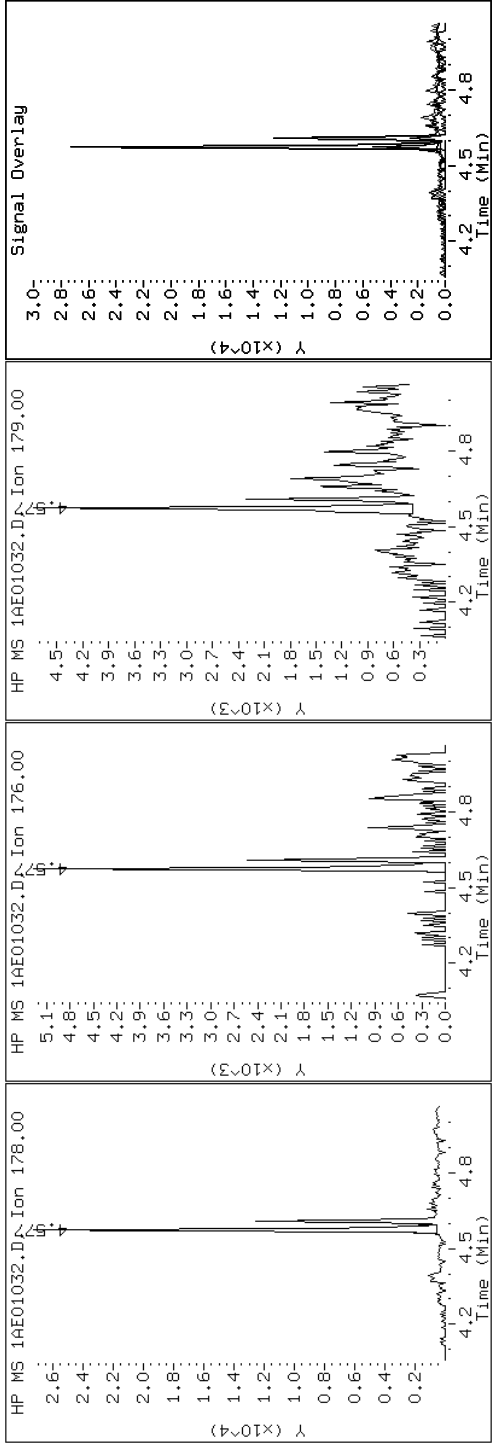
Client ID: CV0790B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-14-a

Operator: SCC

11 Phenanthrene



Data File: 1AE01032.D

Date: 01-MAY-2013 20:48

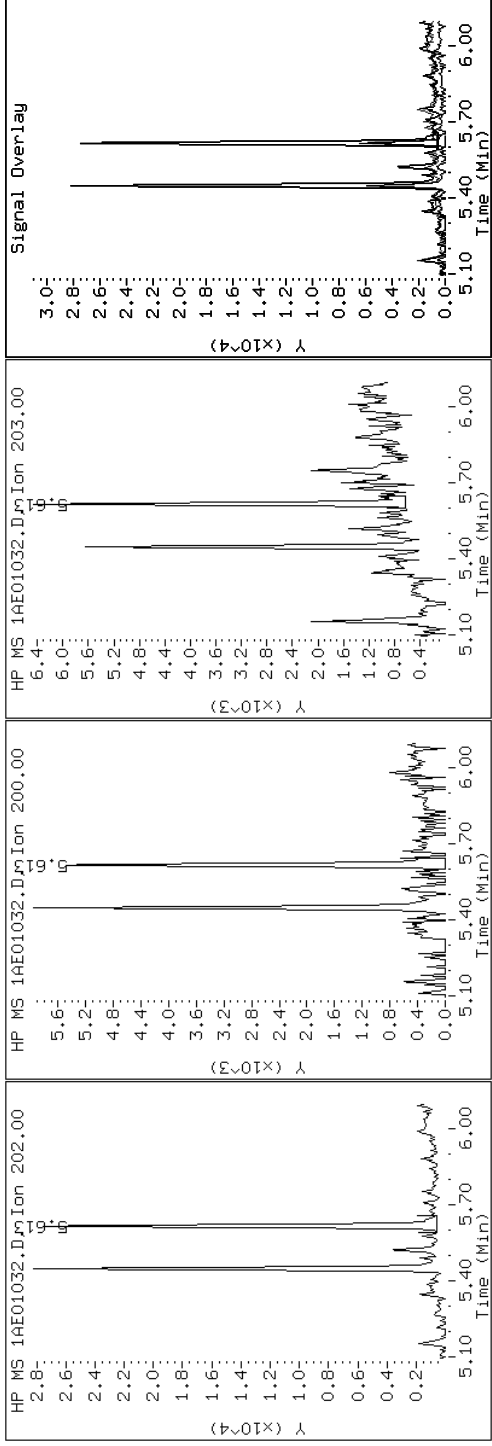
Client ID: CV0790B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-14-a

Operator: SCC

16 Pyrene

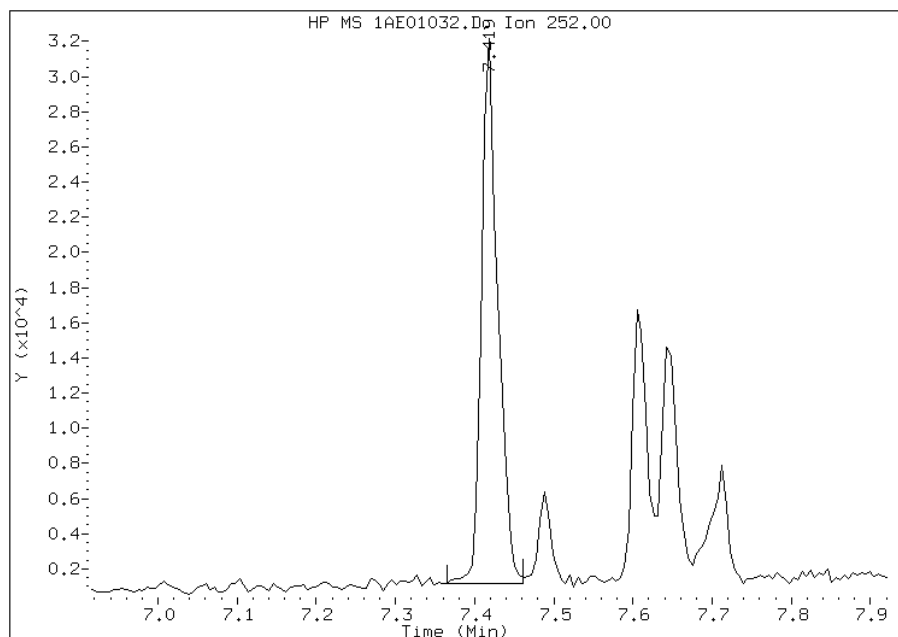


# Manual Integration Report

Data File: 1AE01032.D  
Inj. Date and Time: 01-MAY-2013 20:48  
Instrument ID: BSMA5973.i  
Client ID: CV0790B-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 05/05/2013

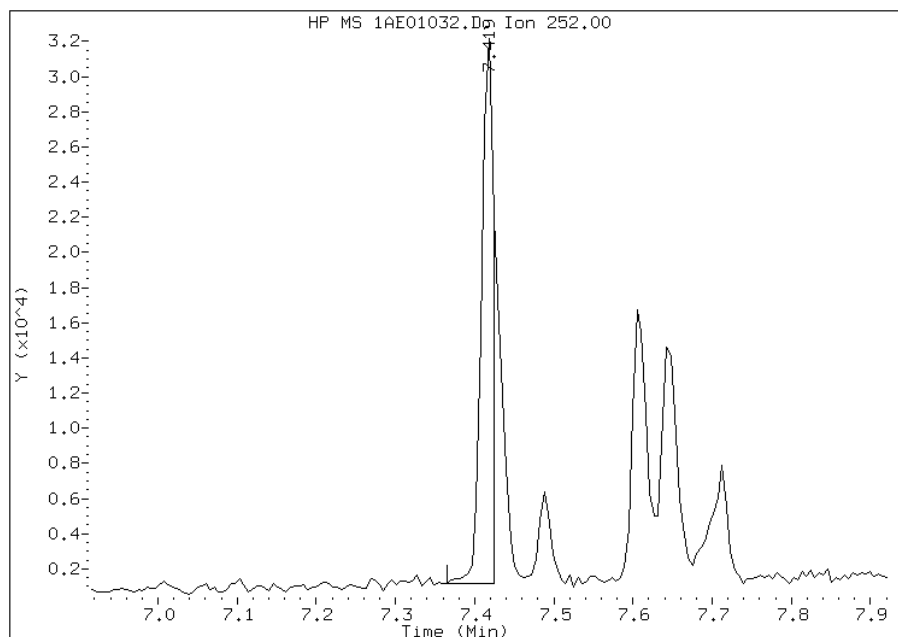
## Processing Integration Results

RT: 7.42  
Response: 44134  
Amount: 1  
Conc: 365



## Manual Integration Results

RT: 7.42  
Response: 31943  
Amount: 1  
Conc: 264



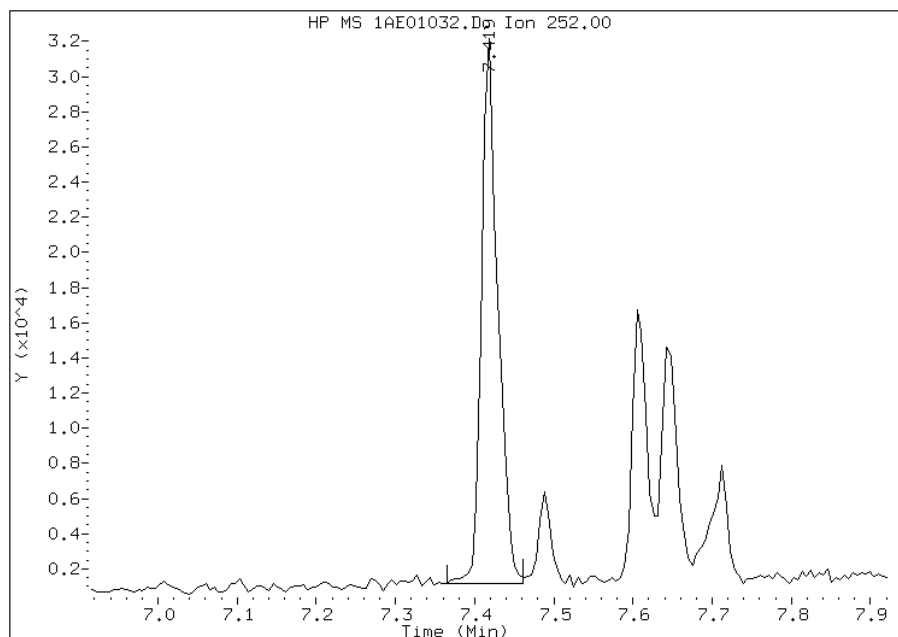
Manually Integrated By: cantins  
Modification Date: 05-May-2013 18:44  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AE01032.D  
Inj. Date and Time: 01-MAY-2013 20:48  
Instrument ID: BSMA5973.i  
Client ID: CV0790B-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 05/05/2013

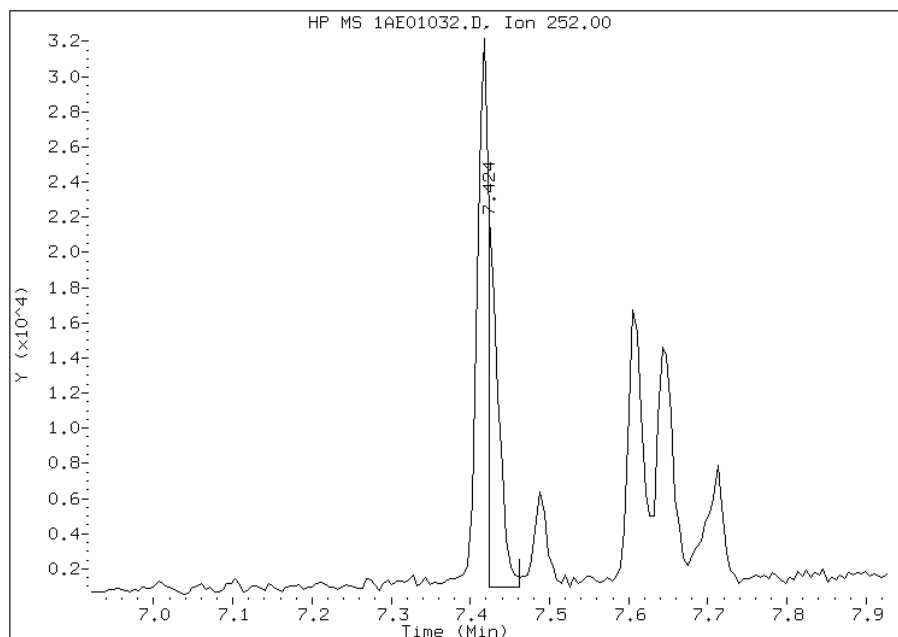
## Processing Integration Results

RT: 7.42  
Response: 44134  
Amount: 1  
Conc: 317



## Manual Integration Results

RT: 7.42  
Response: 19269  
Amount: 0  
Conc: 139



Manually Integrated By: cantins  
Modification Date: 05-May-2013 18:44  
Manual Integration Reason: Baseline Event

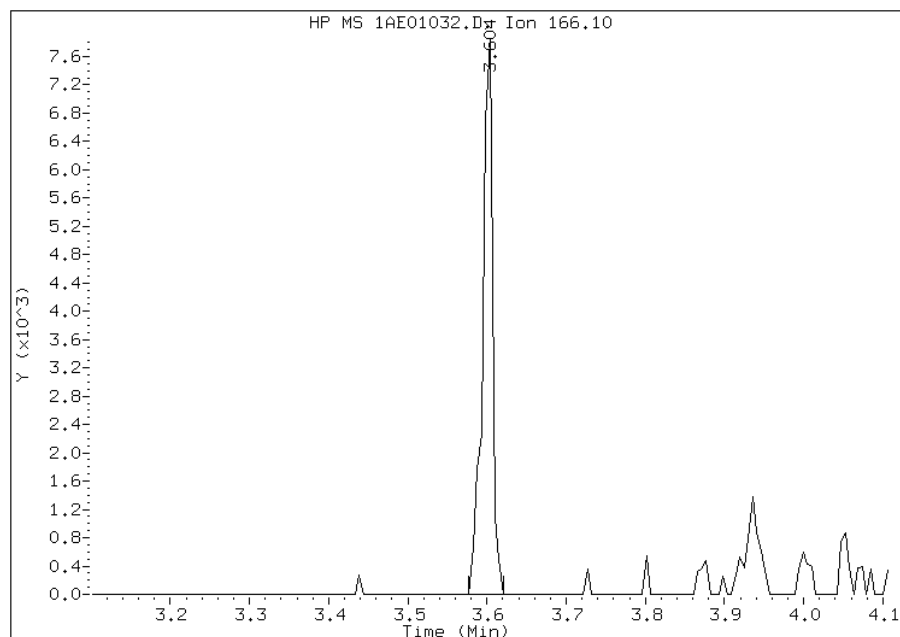


# Manual Integration Report

Data File: 1AE01032.D  
Inj. Date and Time: 01-MAY-2013 20:48  
Instrument ID: BSMA5973.i  
Client ID: CV0790B-CS-SP  
Compound: 9 Fluorene  
CAS #: 86-73-7  
Report Date: 05/05/2013

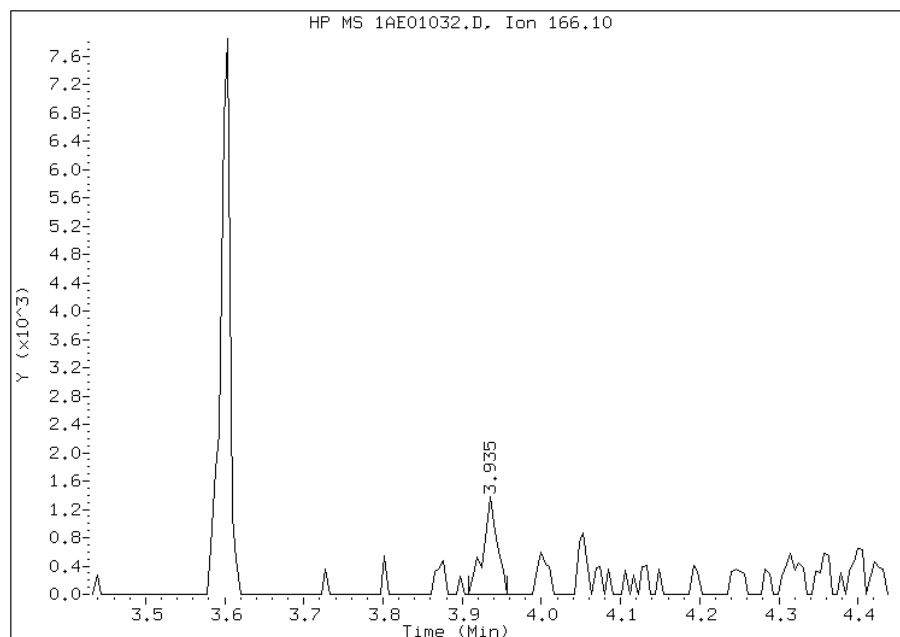
## Processing Integration Results

RT: 3.60  
Response: 6687  
Amount: 0  
Conc: 96



## Manual Integration Results

RT: 3.94  
Response: 1647  
Amount: 0  
Conc: 24



Manually Integrated By: cantins  
Modification Date: 05-May-2013 18:43  
Manual Integration Reason: Analyte Misidentified by the Data System

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: CV0790C-CS-SP Lab Sample ID: 680-89791-15  
 Matrix: Solid Lab File ID: 1AE02012.D  
 Analysis Method: 8270C LL Date Collected: 04/24/2013 13:54  
 Extract. Method: 3546 Date Extracted: 04/30/2013 14:42  
 Sample wt/vol: 15.10 (g) Date Analyzed: 05/02/2013 17:57  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: 25.8 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137070 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	54		54	6.7
120-12-7	Anthracene	76		11	5.6
56-55-3	Benzo[a]anthracene	170		11	5.2
50-32-8	Benzo[a]pyrene	170		14	7.0
205-99-2	Benzo[b]fluoranthene	300		16	8.2
191-24-2	Benzo[g,h,i]perylene	160		27	5.9
207-08-9	Benzo[k]fluoranthene	90		11	4.8
218-01-9	Chrysene	260		12	6.0
53-70-3	Dibenz(a,h)anthracene	48		27	5.5
206-44-0	Fluoranthene	270		27	5.4
86-73-7	Fluorene	26	J	27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	140		27	9.5
90-12-0	1-Methylnaphthalene	180		54	5.9
91-57-6	2-Methylnaphthalene	220		54	9.5
91-20-3	Naphthalene	170		54	5.9
85-01-8	Phenanthrene	350		11	5.2
129-00-0	Pyrene	280		27	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	50		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02012.D  
 Lab Smp Id: 680-89791-A-15-A Client Smp ID: CV0790C-CS-SP  
 Inj Date : 02-MAY-2013 17:57  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-89791-a-15-a  
 Misc Info : 680-89791-A-15-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\a-bFASTPAHi-m.m  
 Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 9  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.100	Weight Extracted
M	25.799	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.551	2.550	(1.000)	1354622	40.0000		
* 6 Acenaphthene-d10	164		3.582	3.581	(1.000)	675880	40.0000		
* 10 Phenanthrene-d10	188		4.533	4.532	(1.000)	977084	40.0000		
\$ 14 o-Terphenyl	230		4.832	4.831	(1.066)	80208	5.01877	447.9311	
* 18 Chrysene-d12	240		6.552	6.551	(1.000)	766463	40.0000		
* 23 Perylene-d12	264		7.642	7.641	(1.000)	852360	40.0000		
2 Naphthalene	128		2.561	2.560	(1.004)	63743	1.88239	168.0056	
3 2-Methylnaphthalene	141		2.967	2.972	(1.163)	47082	2.42512	216.4449	
4 1-Methylnaphthalene	142		3.026	3.025	(1.186)	43943	2.04297	182.3370	
5 Acenaphthylene	152		3.491	3.490	(0.975)	24066	0.60926	54.3772	
9 Fluorene	166		3.913	3.912	(1.092)	7152	0.28696	25.6119(Q)	
11 Phenanthrene	178		4.543	4.548	(1.002)	110110	3.89024	347.2083	
12 Anthracene	178		4.575	4.580	(1.009)	24911	0.84644	75.5459	
13 Carbazole	167		4.714	4.713	(1.040)	11856	0.41759	37.2708	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.409	5.413	(1.193)	97367	2.97832	265.8182
16 Pyrene	202	5.574	5.579	(0.851)	92565	3.16558	282.5314
17 Benzo(a)anthracene	228	6.547	6.540	(0.999)	46799	1.86968	166.8714
19 Chrysene	228	6.568	6.572	(1.002)	73631	2.89956	258.7887
20 Benzo(b)fluoranthene	252	7.364	7.363	(0.964)	87905	3.39701	303.1873(M)
21 Benzo(k)fluoranthene	252	7.375	7.384	(0.965)	30094	1.01149	90.2765(QM)
22 Benzo(a)pyrene	252	7.583	7.593	(0.992)	48306	1.87647	167.4770
24 Indeno(1,2,3-cd)pyrene	276	8.395	8.405	(1.099)	37834	1.55652	138.9213(M)
25 Dibenzo(a,h)anthracene	278	8.422	8.431	(1.102)	12165	0.53789	48.0071
26 Benzo(g,h,i)perylene	276	8.614	8.624	(1.127)	49376	1.81503	161.9939

QC Flag Legend

Q - Qualifier signal failed the ratio test.  
 M - Compound response manually integrated.

Data File: 1AE02012.D

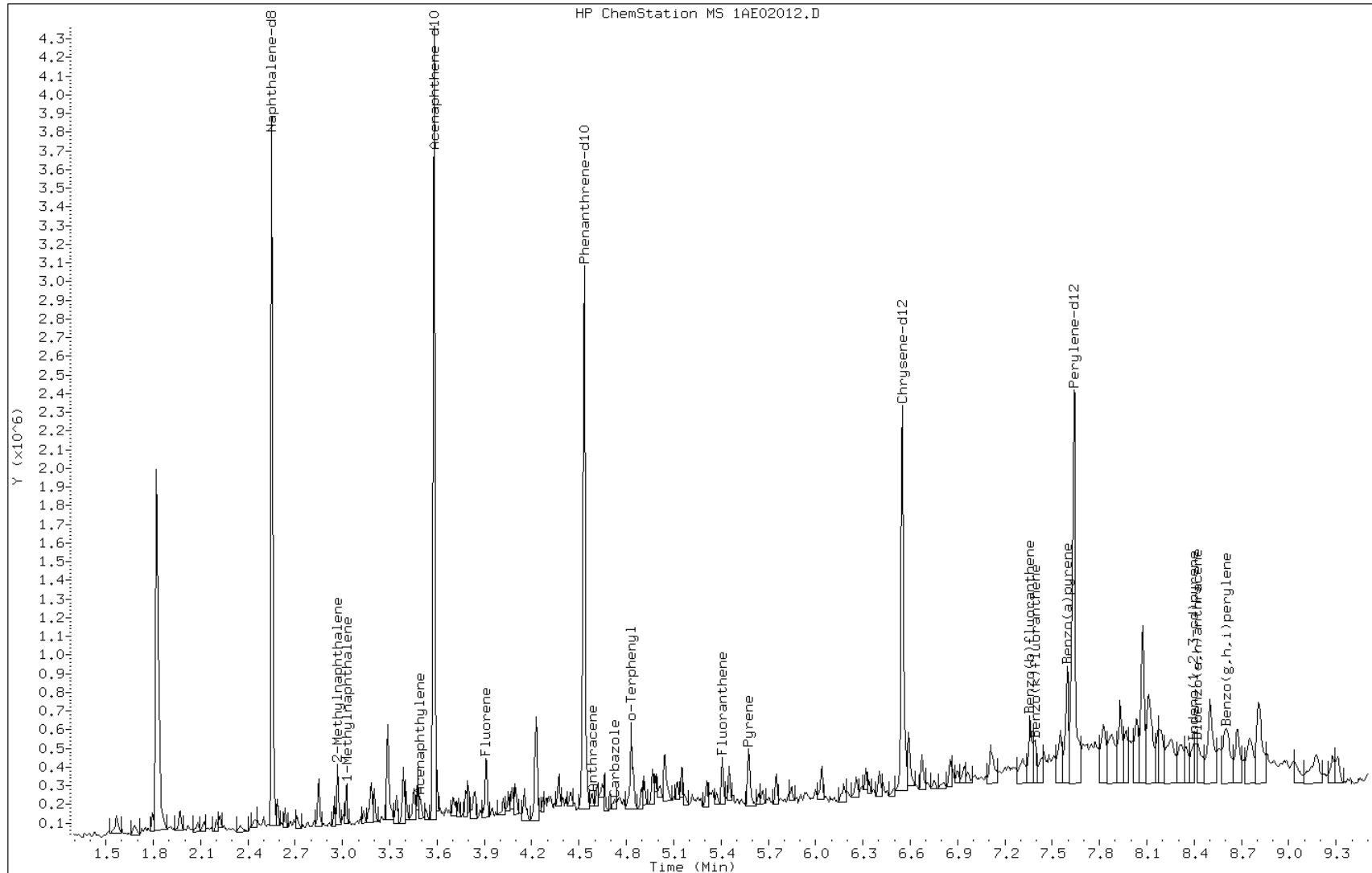
Date: 02-MAY-2013 17:57

Client ID: CV0790C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-15-a

Operator: SCC



Data File: 1AE02012.D

Date: 02-MAY-2013 17:57

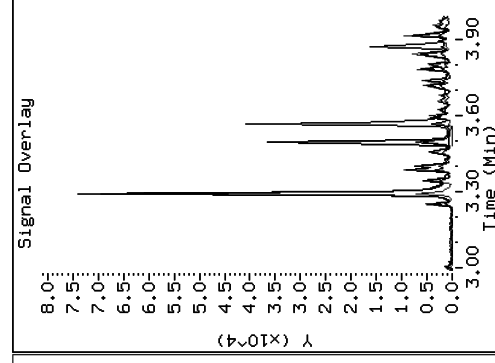
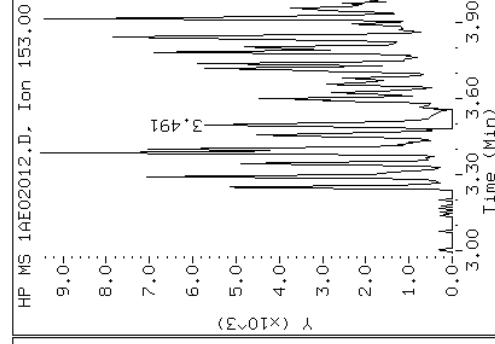
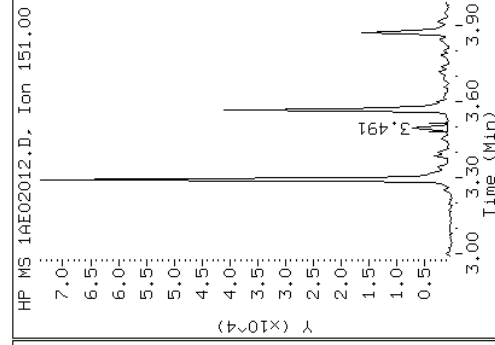
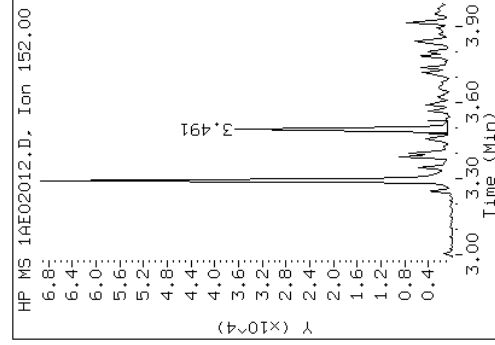
Client ID: CV0790C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-15-a

Operator: SCC

### 5 Acenaphthylene



Data File: 1AE02012.D

Date: 02-MAY-2013 17:57

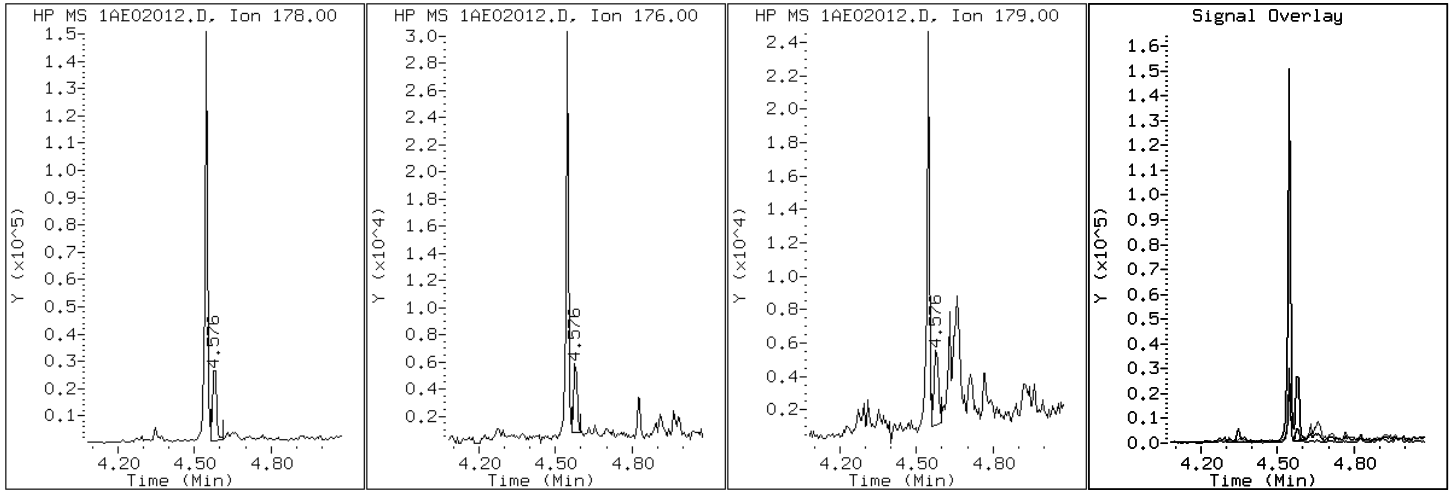
Client ID: CV0790C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-15-a

Operator: SCC

12 Anthracene



Data File: 1AE02012.D

Date: 02-MAY-2013 17:57

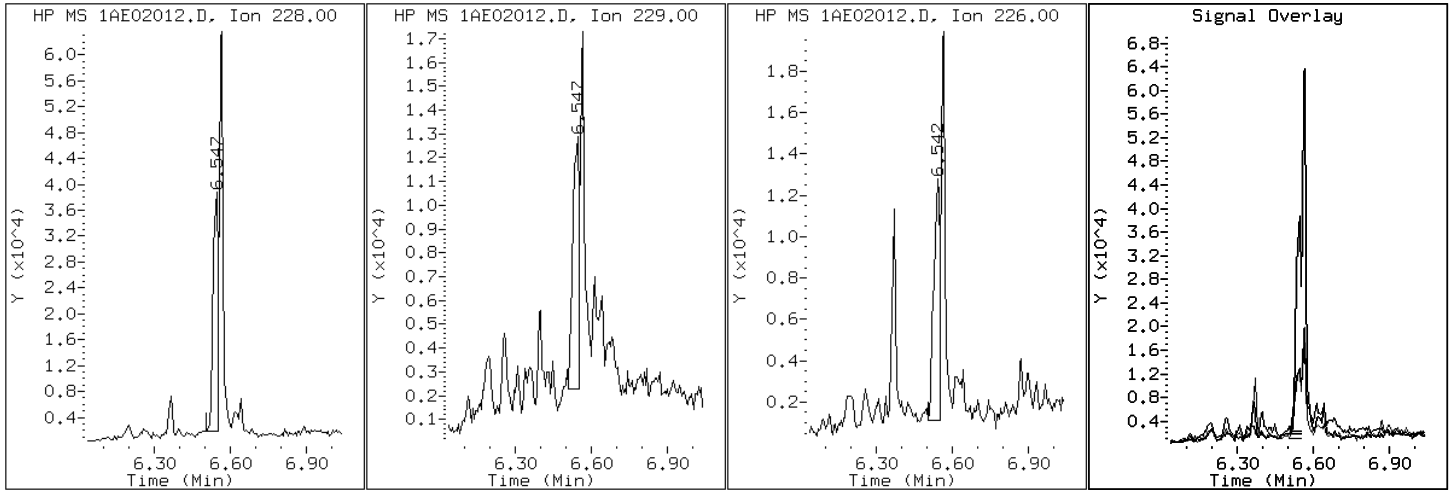
Client ID: CV0790C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-15-a

Operator: SCC

17 Benzo(a)anthracene





Data File: 1AE02012.D

Date: 02-MAY-2013 17:57

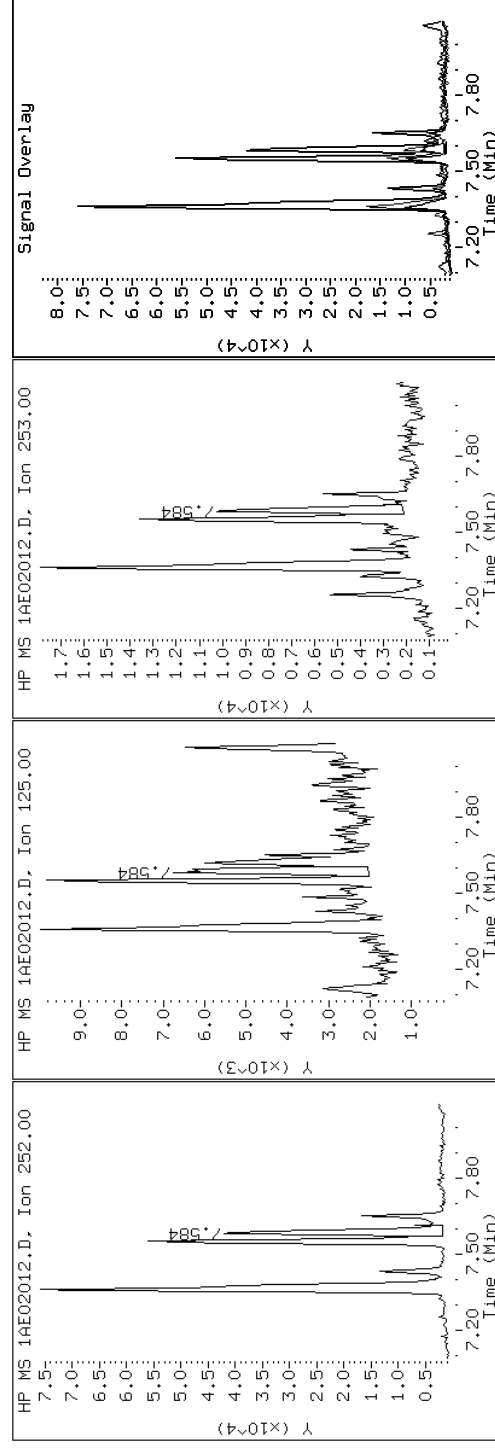
Client ID: CV0790C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-15-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AE02012.D

Date: 02-MAY-2013 17:57

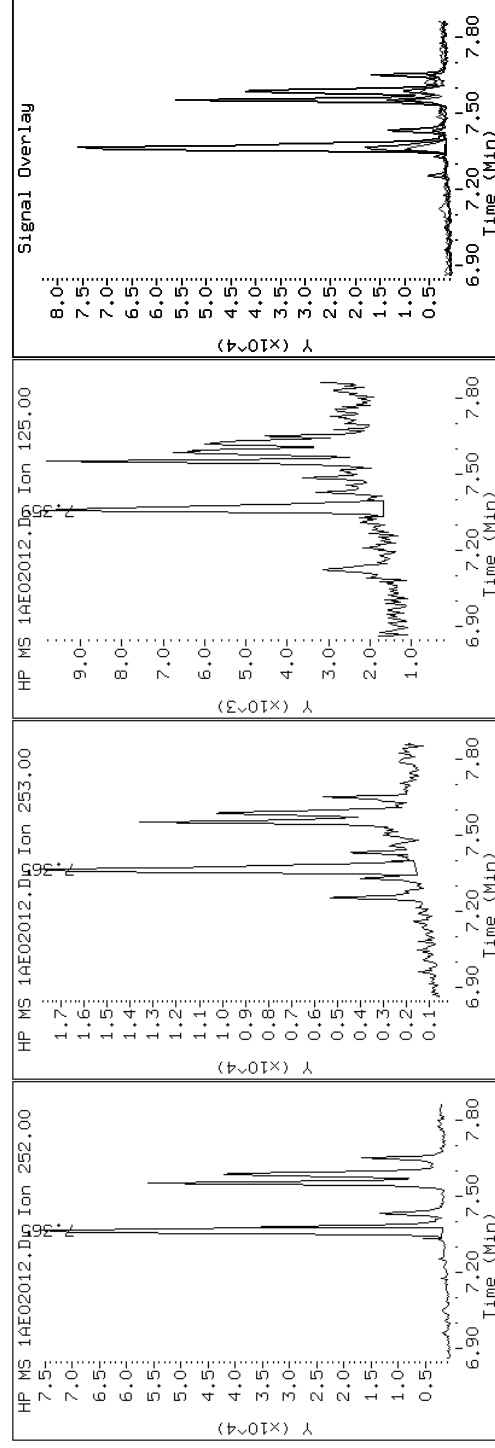
Client ID: CV0790C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-15-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AE02012.D

Date: 02-MAY-2013 17:57

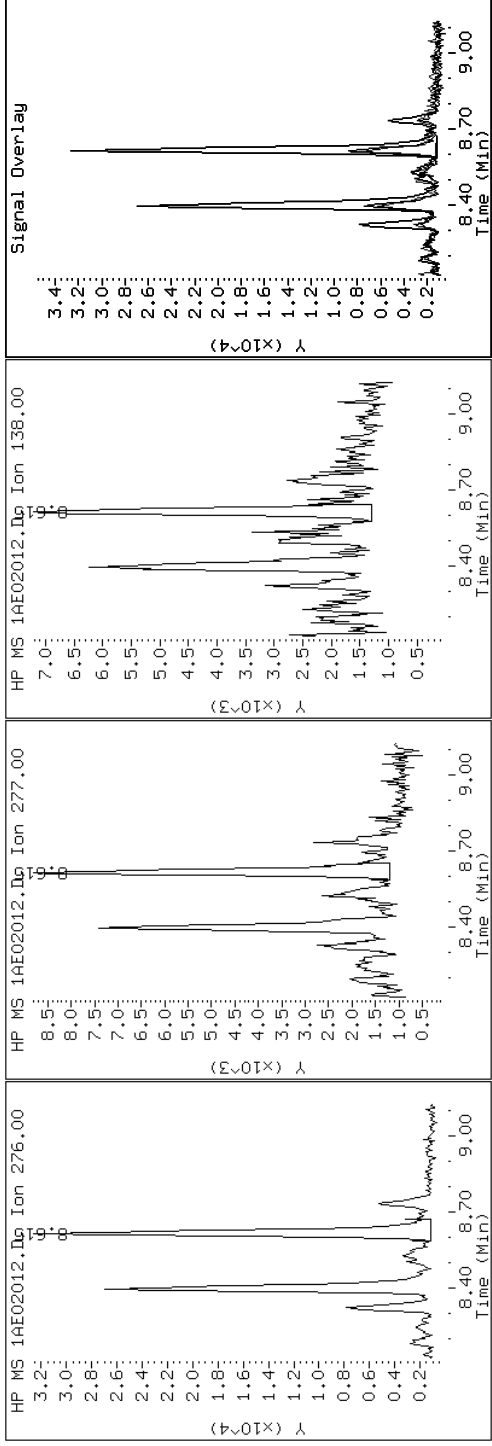
Client ID: CV0790C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-15-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AE02012.D

Date: 02-MAY-2013 17:57

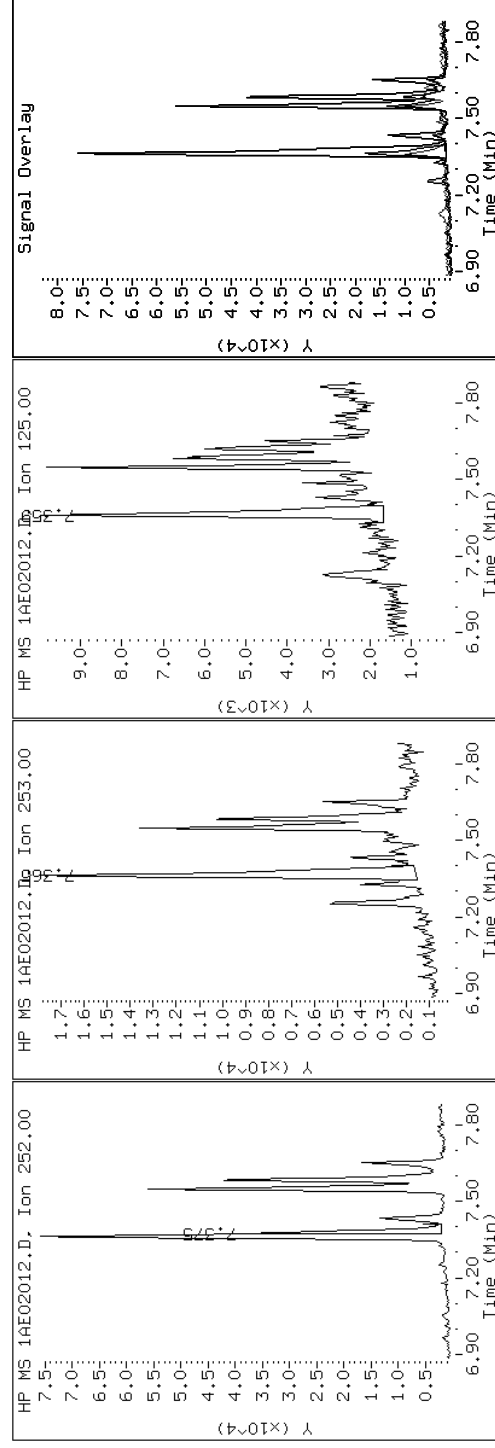
Client ID: CV0790C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-15-a

Operator: SCC

### 21 Benzo(k)fluoranthene



Data File: 1AE02012.D

Date: 02-MAY-2013 17:57

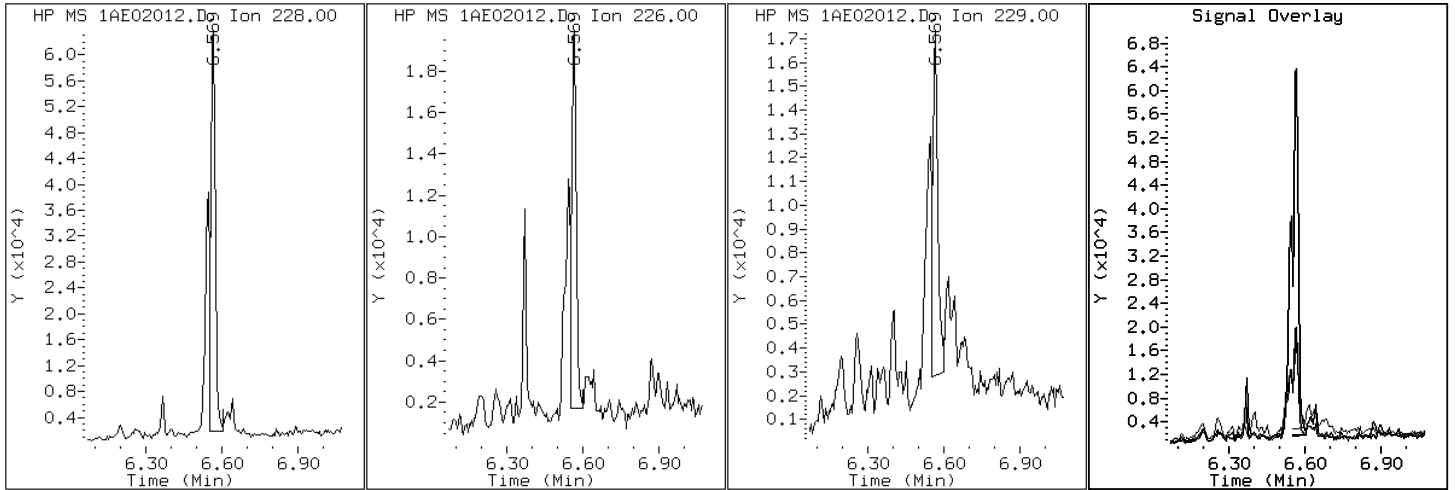
Client ID: CV0790C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-15-a

Operator: SCC

19 Chrysene



Data File: 1AE02012.D

Date: 02-MAY-2013 17:57

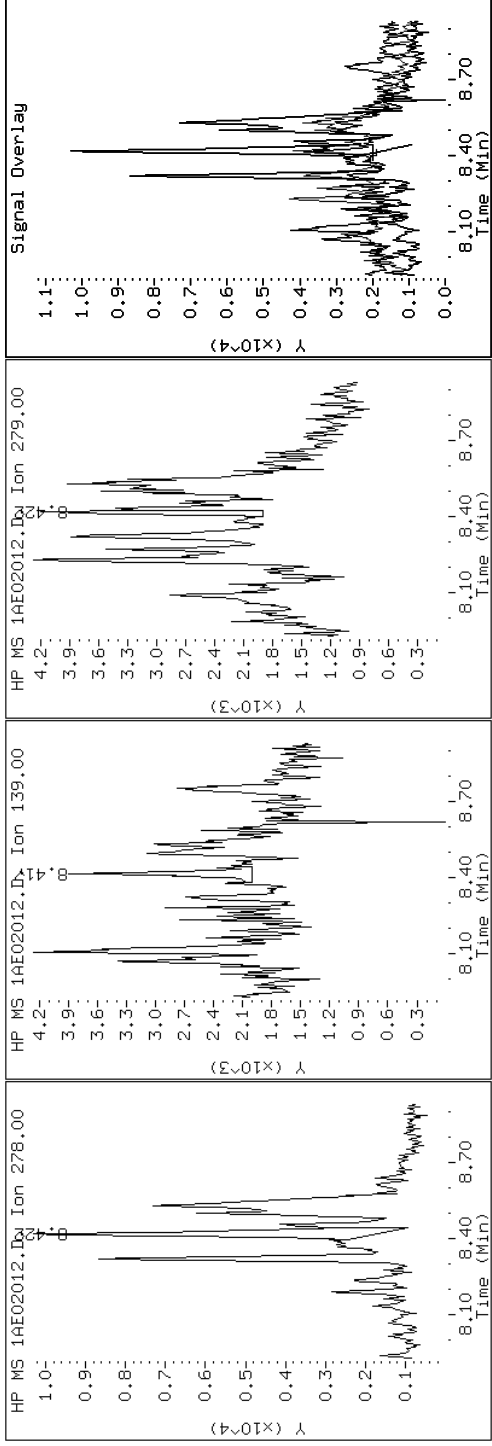
Client ID: CV0790C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-15-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AE02012.D

Date: 02-MAY-2013 17:57

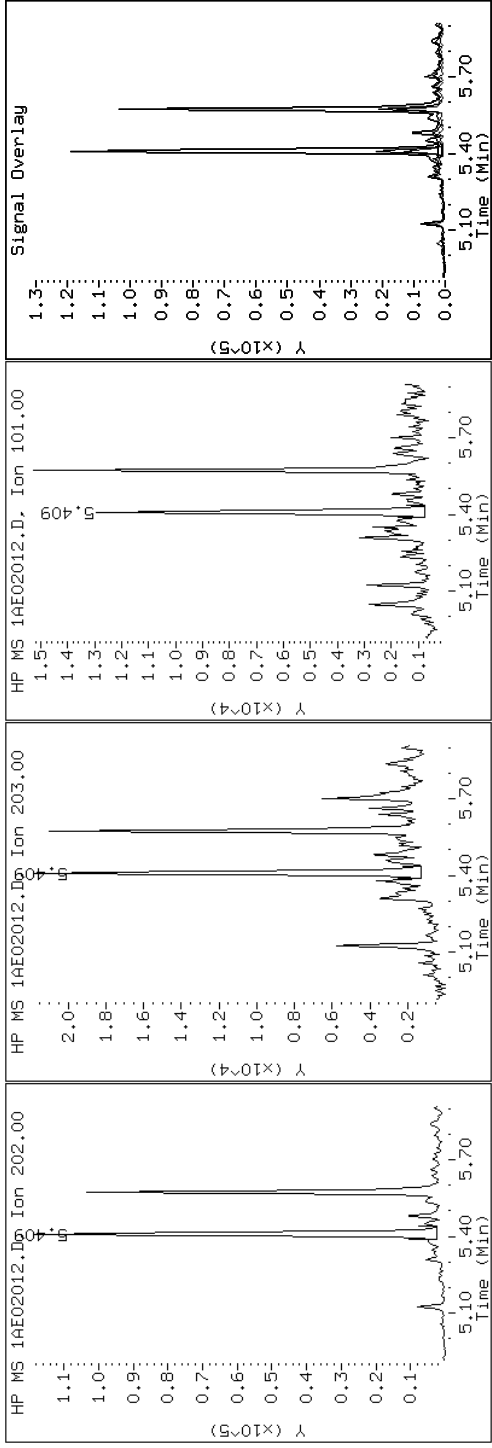
Client ID: CV0790C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-15-a

Operator: SCC

15 Fluoranthene



Data File: 1AE02012.D

Date: 02-MAY-2013 17:57

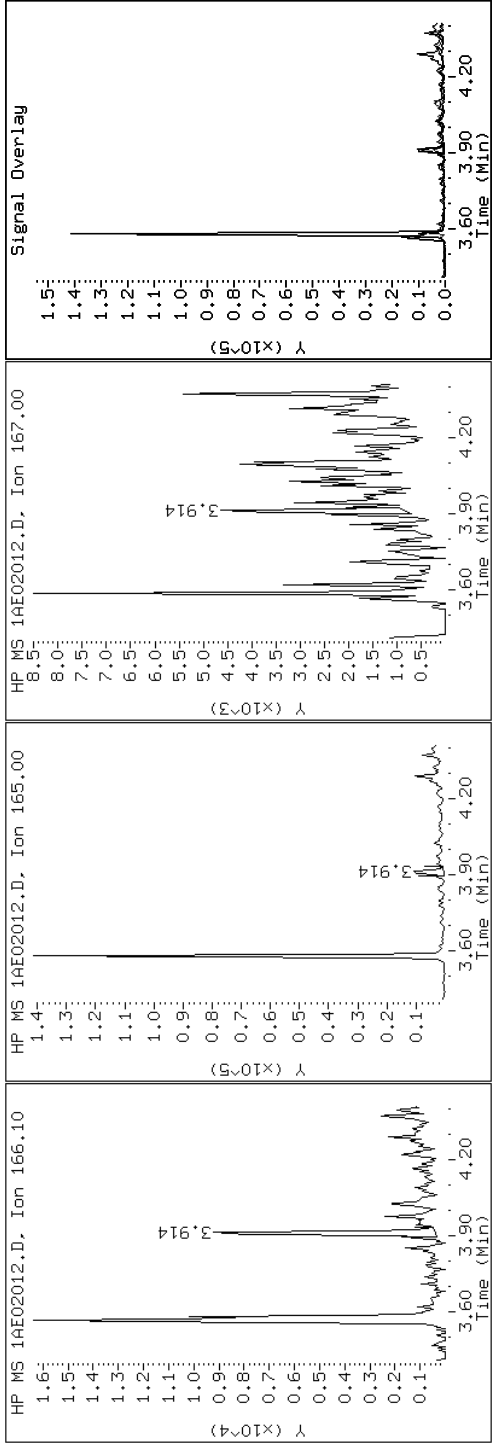
Client ID: CV0790C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-15-a

Operator: SCC

9 Fluorene





Data File: 1AE02012.D

Date: 02-MAY-2013 17:57

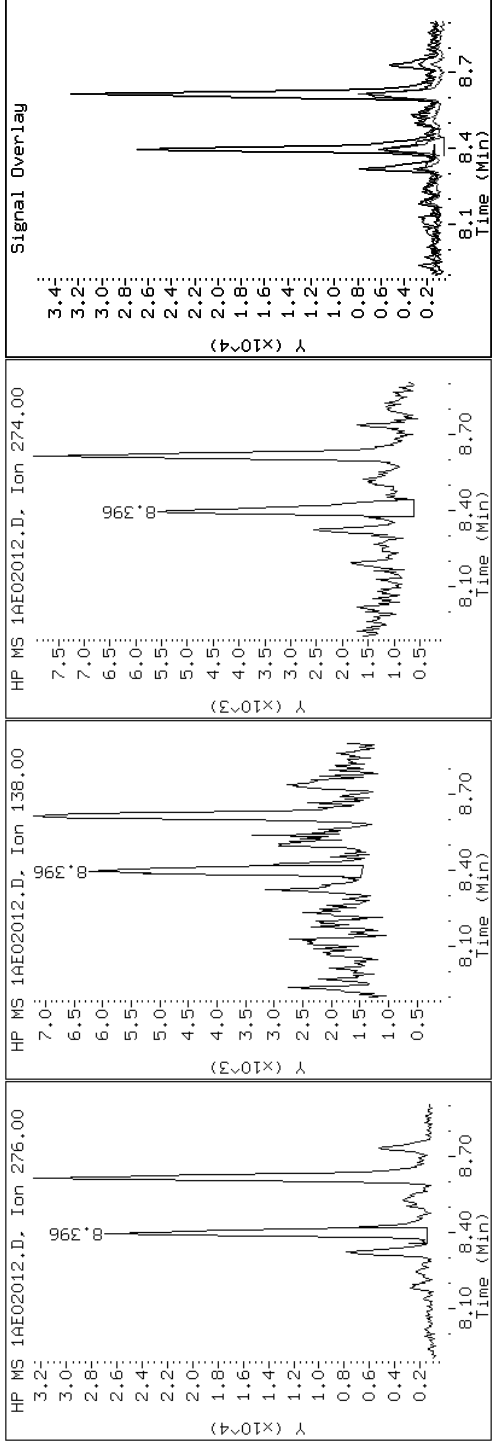
Client ID: CV0790C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-15-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



Data File: 1AE02012.D

Date: 02-MAY-2013 17:57

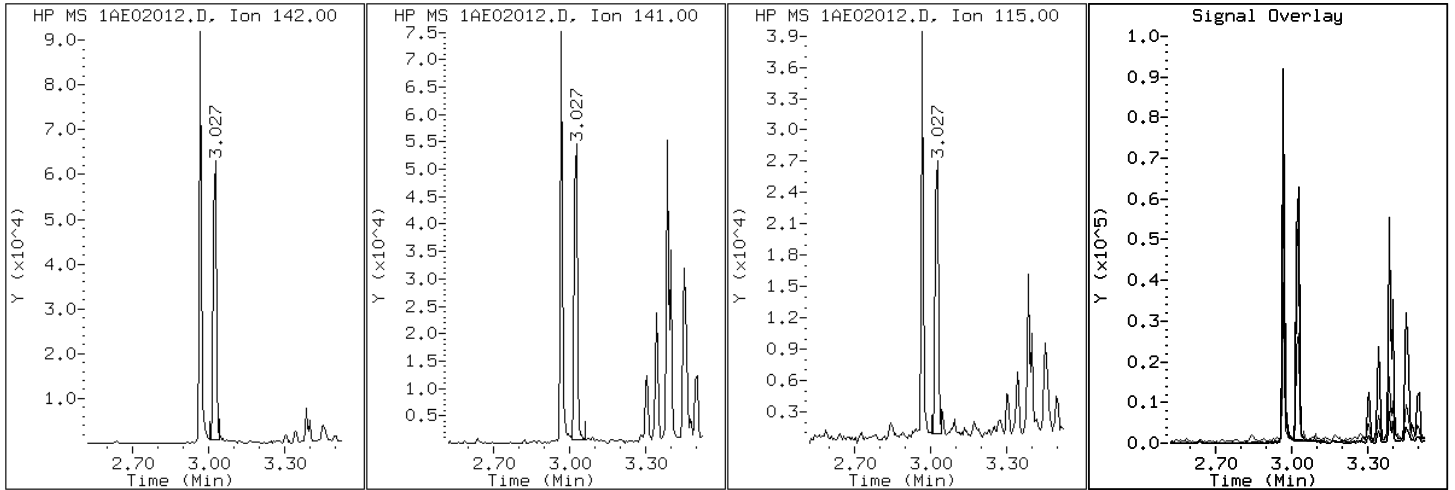
Client ID: CV0790C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-15-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE02012.D

Date: 02-MAY-2013 17:57

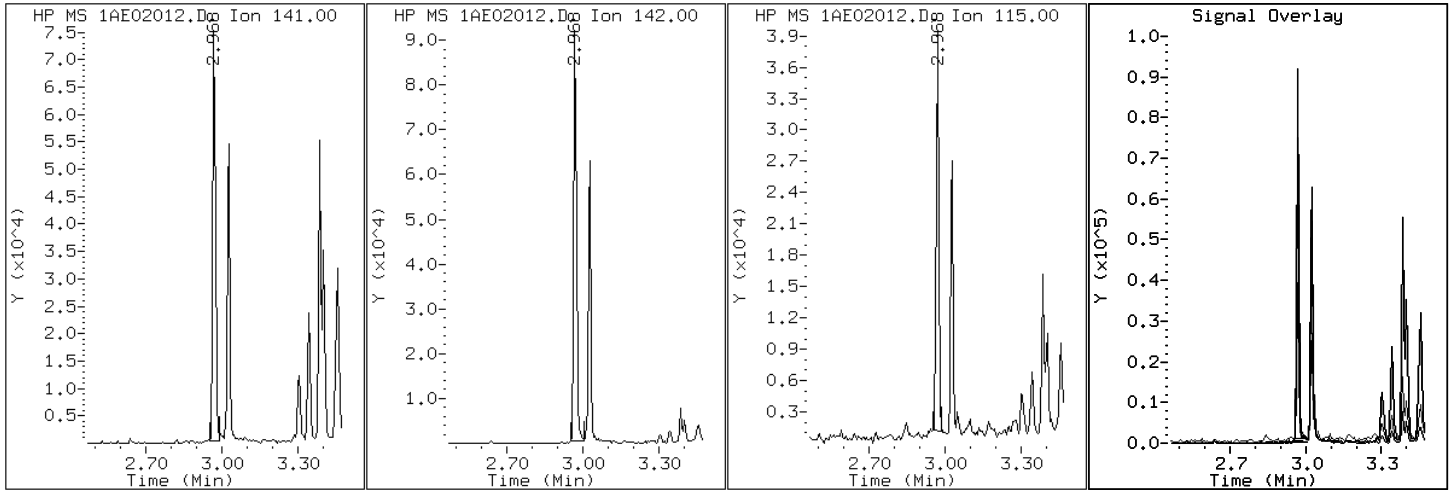
Client ID: CV0790C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-15-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AE02012.D

Date: 02-MAY-2013 17:57

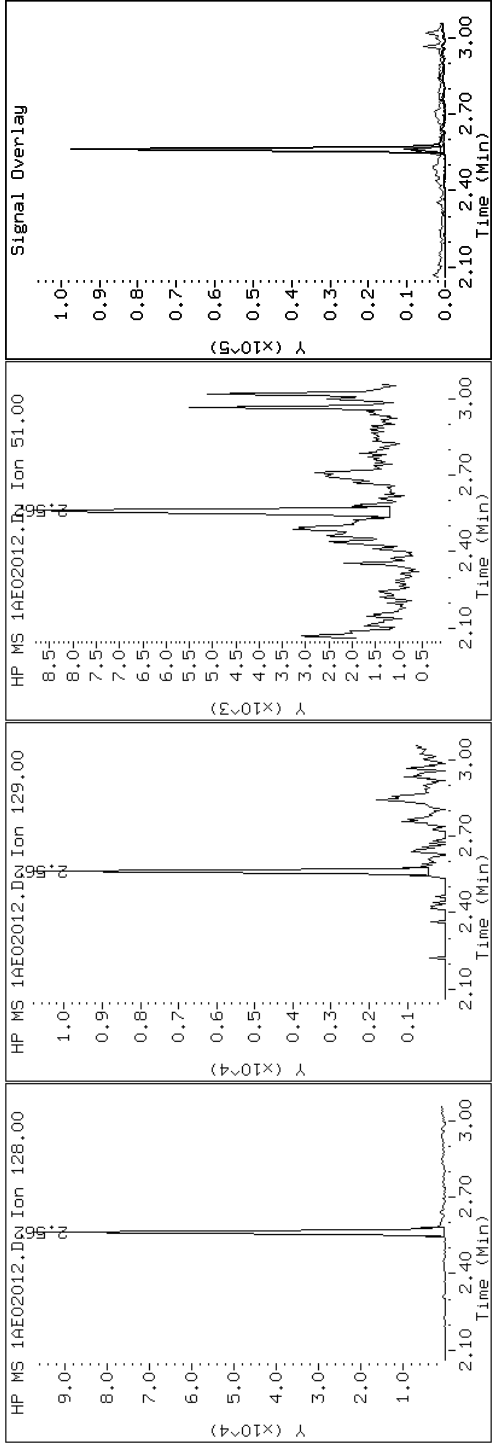
Client ID: CV0790C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-15-a

Operator: SCC

2 Naphthalene



Data File: 1AE02012.D

Date: 02-MAY-2013 17:57

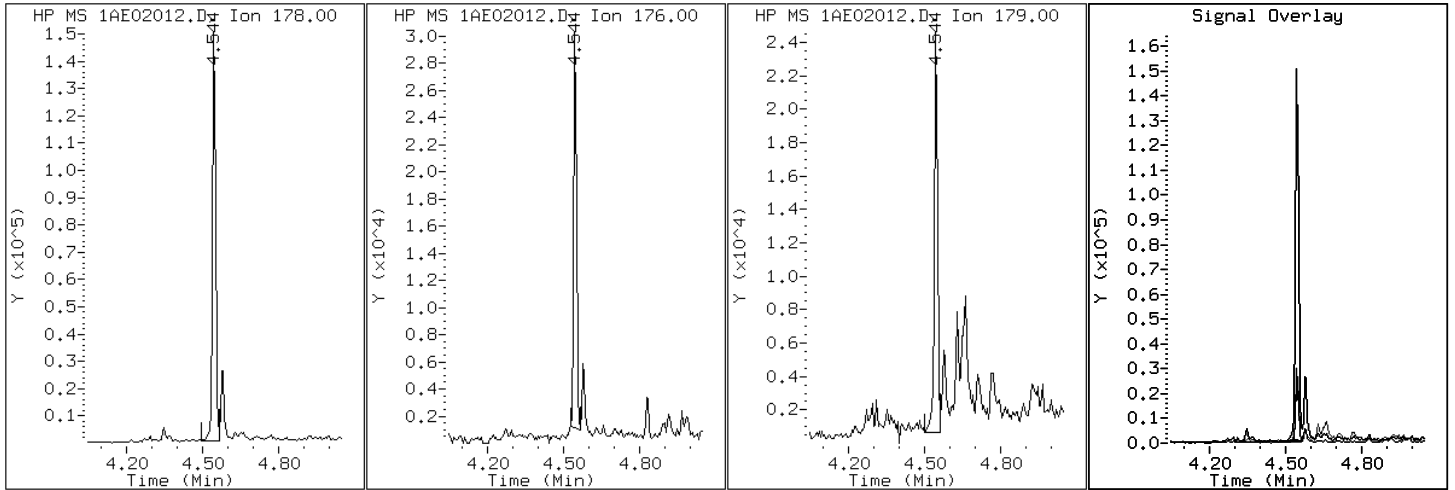
Client ID: CV0790C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-15-a

Operator: SCC

11 Phenanthrene



Data File: 1AE02012.D

Date: 02-MAY-2013 17:57

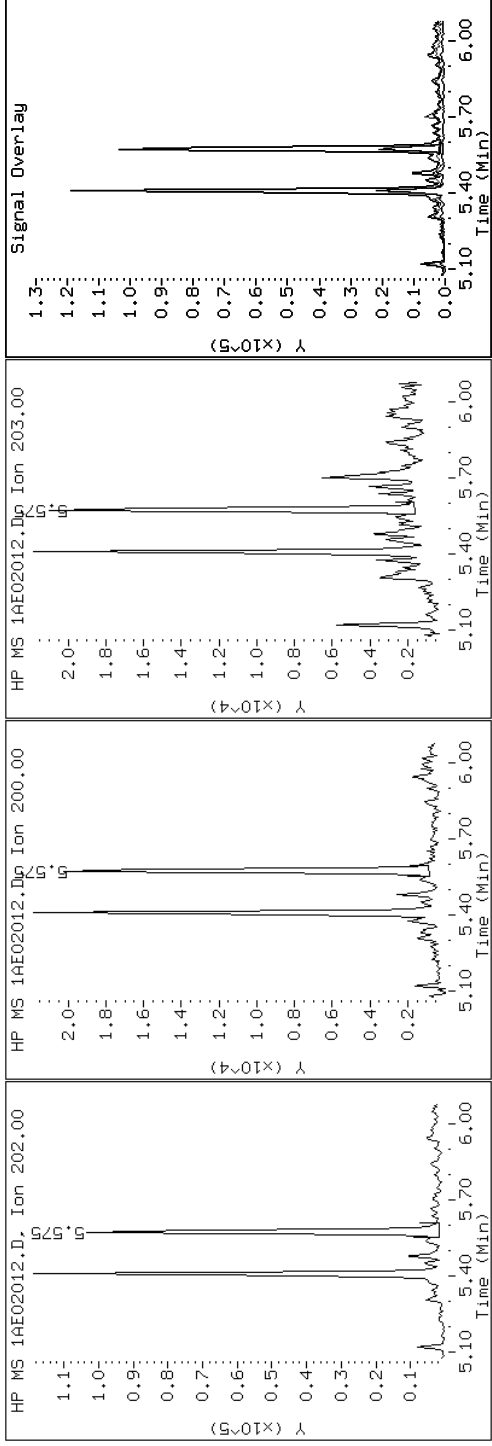
Client ID: CV0790C-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-15-a

Operator: SCC

16 Pyrene

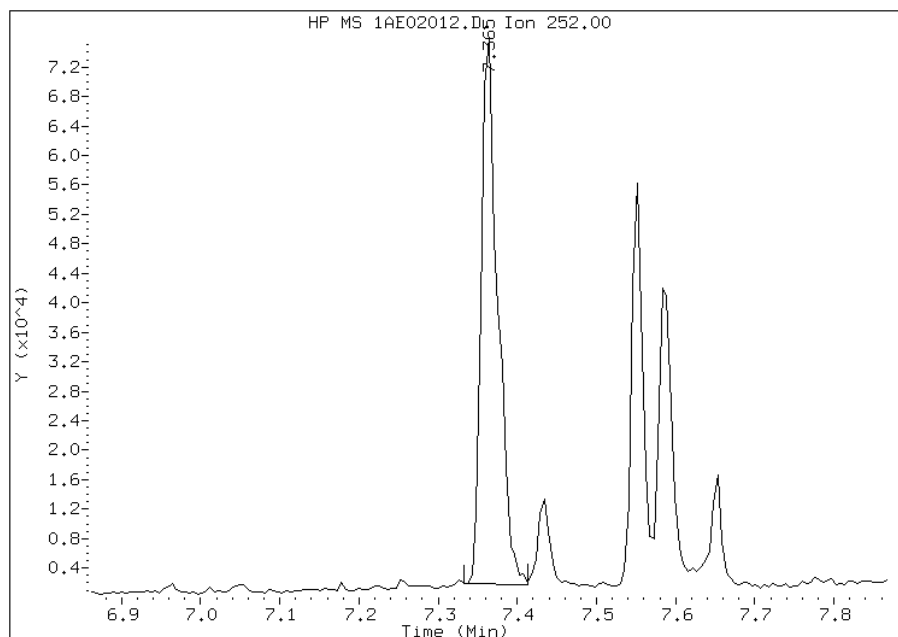


# Manual Integration Report

Data File: 1AE02012.D  
Inj. Date and Time: 02-MAY-2013 17:57  
Instrument ID: BSMA5973.i  
Client ID: CV0790C-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 05/03/2013

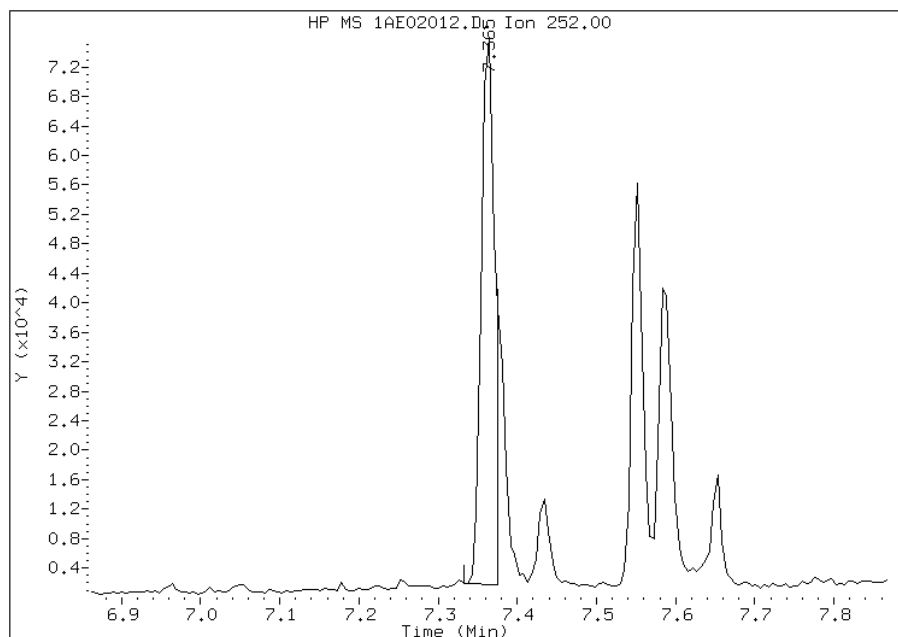
## Processing Integration Results

RT: 7.36  
Response: 106515  
Amount: 4  
Conc: 367



## Manual Integration Results

RT: 7.36  
Response: 87905  
Amount: 3  
Conc: 303



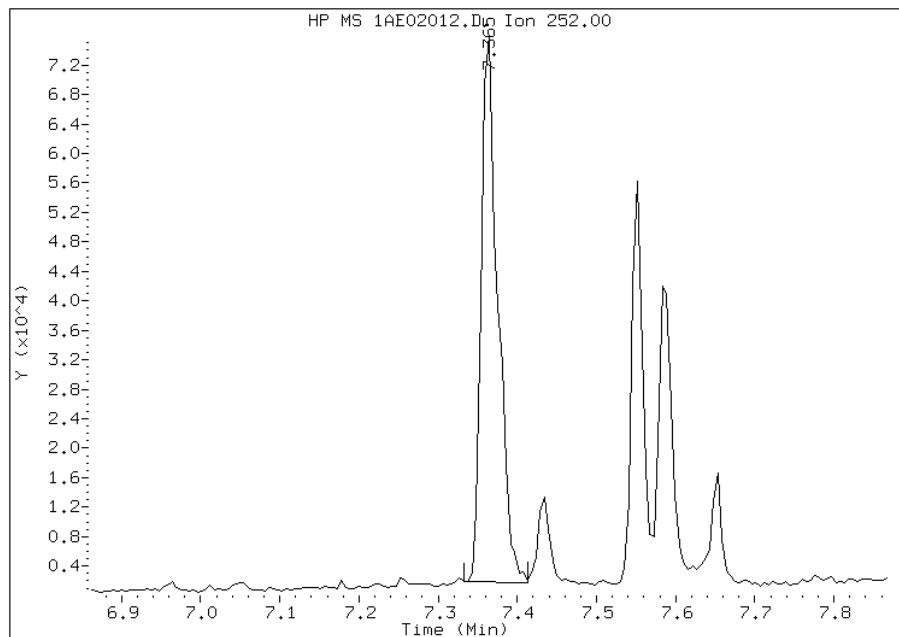
Manually Integrated By: cantins  
Modification Date: 03-May-2013 10:28  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AE02012.D  
Inj. Date and Time: 02-MAY-2013 17:57  
Instrument ID: BSMA5973.i  
Client ID: CV0790C-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 05/03/2013

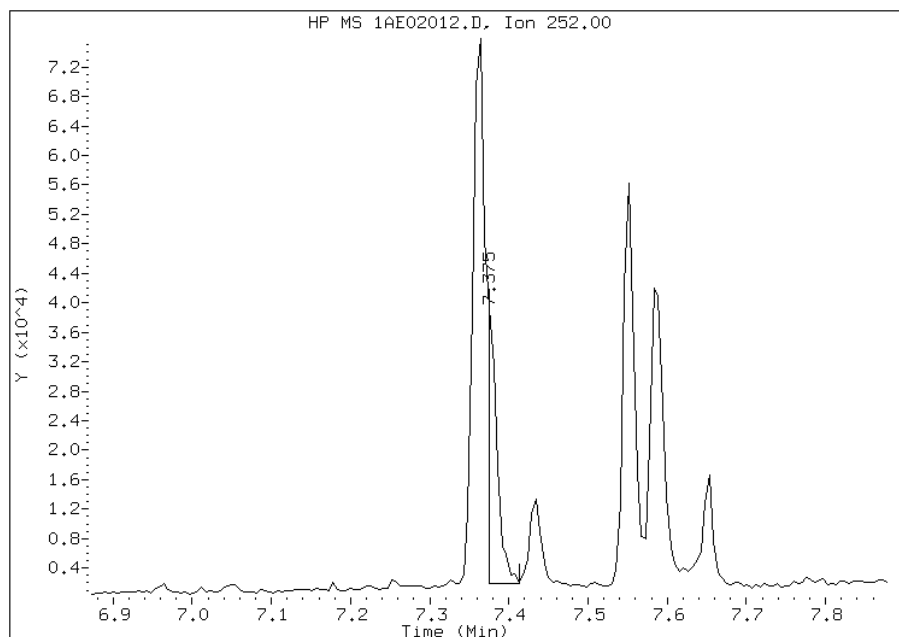
## Processing Integration Results

RT: 7.36  
Response: 106515  
Amount: 4  
Conc: 320



## Manual Integration Results

RT: 7.38  
Response: 30094  
Amount: 1  
Conc: 90



Manually Integrated By: cantins  
Modification Date: 03-May-2013 10:29  
Manual Integration Reason: Baseline Event

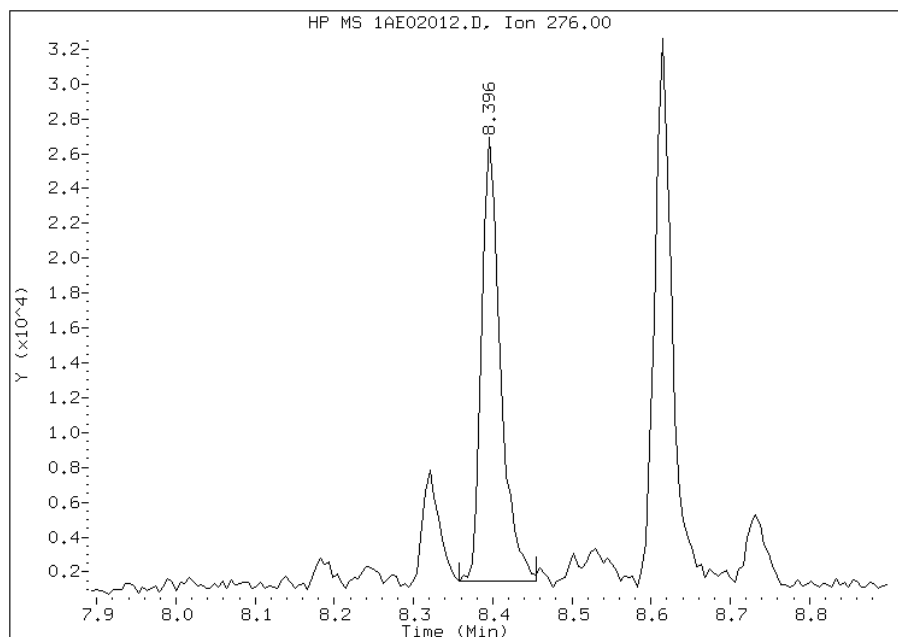


# Manual Integration Report

Data File: 1AE02012.D  
Inj. Date and Time: 02-MAY-2013 17:57  
Instrument ID: BSMA5973.i  
Client ID: CV0790C-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/03/2013

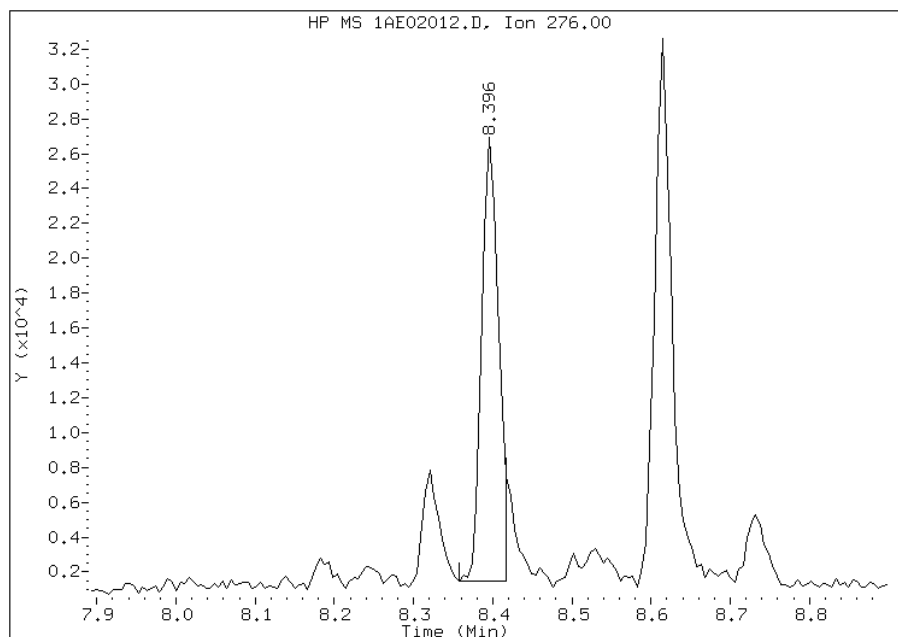
## Processing Integration Results

RT: 8.40  
Response: 41996  
Amount: 2  
Conc: 154



## Manual Integration Results

RT: 8.40  
Response: 37834  
Amount: 2  
Conc: 139



Manually Integrated By: cantins  
Modification Date: 03-May-2013 10:29  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: CV0121A-CS-SP Lab Sample ID: 680-89791-18  
 Matrix: Solid Lab File ID: 1AE02013.D  
 Analysis Method: 8270C LL Date Collected: 04/25/2013 10:58  
 Extract. Method: 3546 Date Extracted: 04/30/2013 14:42  
 Sample wt/vol: 14.96(g) Date Analyzed: 05/02/2013 18:12  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 26.1 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137070 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	540	U	540	110
208-96-8	Acenaphthylene	220	U	220	27
120-12-7	Anthracene	67		46	23
56-55-3	Benzo[a]anthracene	270		43	21
50-32-8	Benzo[a]pyrene	160		56	28
205-99-2	Benzo[b]fluoranthene	290		66	33
191-24-2	Benzo[g,h,i]perylene	160		110	24
207-08-9	Benzo[k]fluoranthene	110		43	20
218-01-9	Chrysene	300		49	24
53-70-3	Dibenz(a,h)anthracene	46	J	110	22
206-44-0	Fluoranthene	270		110	22
86-73-7	Fluorene	27	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	130		110	39
90-12-0	1-Methylnaphthalene	240		220	24
91-57-6	2-Methylnaphthalene	300		220	39
91-20-3	Naphthalene	220		220	24
85-01-8	Phenanthrene	380		43	21
129-00-0	Pyrene	310		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	45		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02013.D  
 Lab Smp Id: 680-89791-A-18-A Client Smp ID: CV0121A-CS-SP  
 Inj Date : 02-MAY-2013 18:12  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-89791-a-18-a  
 Misc Info : 680-89791-A-18-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\a-bFASTPAHi-m.m  
 Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 10  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	26.087	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.554	2.550	(1.000)	1329845	40.0000		
* 6 Acenaphthene-d10	164	3.580	3.581	(1.000)	699306	40.0000		
* 10 Phenanthrene-d10	188	4.531	4.532	(1.000)	1101748	40.0000		
\$ 14 o-Terphenyl	230	4.830	4.831	(1.066)	20305	1.12676	407.6051	
* 18 Chrysene-d12	240	6.550	6.551	(1.000)	784362	40.0000		
* 23 Perylene-d12	264	7.640	7.641	(1.000)	846009	40.0000		
2 Naphthalene	128	2.565	2.560	(1.004)	20359	0.61242	221.5431	
3 2-Methylnaphthalene	141	2.971	2.972	(1.163)	15753	0.82653	298.9967	
4 1-Methylnaphthalene	142	3.025	3.025	(1.184)	13938	0.66007	238.7790	
9 Fluorene	166	3.911	3.912	(1.093)	1952	0.07570	27.3836(Q)	
11 Phenanthrene	178	4.547	4.548	(1.004)	33089	1.03677	375.0508	
12 Anthracene	178	4.579	4.580	(1.011)	6162	0.18569	67.1714(Q)	
13 Carbazole	167	4.713	4.713	(1.040)	2780	0.08684	31.4136(Q)	
15 Fluoranthene	202	5.412	5.413	(1.195)	27964	0.75859	274.4197	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
16 Pyrene	202	5.573	5.579	(0.851)	25324	0.84628	306.1402
17 Benzo(a)anthracene	228	6.545	6.540	(0.999)	18881	0.73711	266.6481
19 Chrysene	228	6.566	6.572	(1.002)	21357	0.82184	297.2988
20 Benzo(b)fluoranthene	252	7.362	7.363	(0.964)	20861	0.81221	293.8151(M)
21 Benzo(k)fluoranthene	252	7.373	7.384	(0.965)	8960	0.30342	109.7601(QM)
22 Benzo(a)pyrene	252	7.587	7.593	(0.993)	11415	0.44675	161.6113
24 Indeno(1,2,3-cd)pyrene	276	8.393	8.405	(1.099)	8734	0.36202	130.9609
25 Dibenzo(a,h)anthracene	278	8.420	8.431	(1.102)	2870	0.12785	46.2505
26 Benzo(g,h,i)perylene	276	8.607	8.624	(1.127)	11829	0.43809	158.4792(M)

QC Flag Legend

Q - Qualifier signal failed the ratio test.  
M - Compound response manually integrated.

Data File: 1AE02013.D

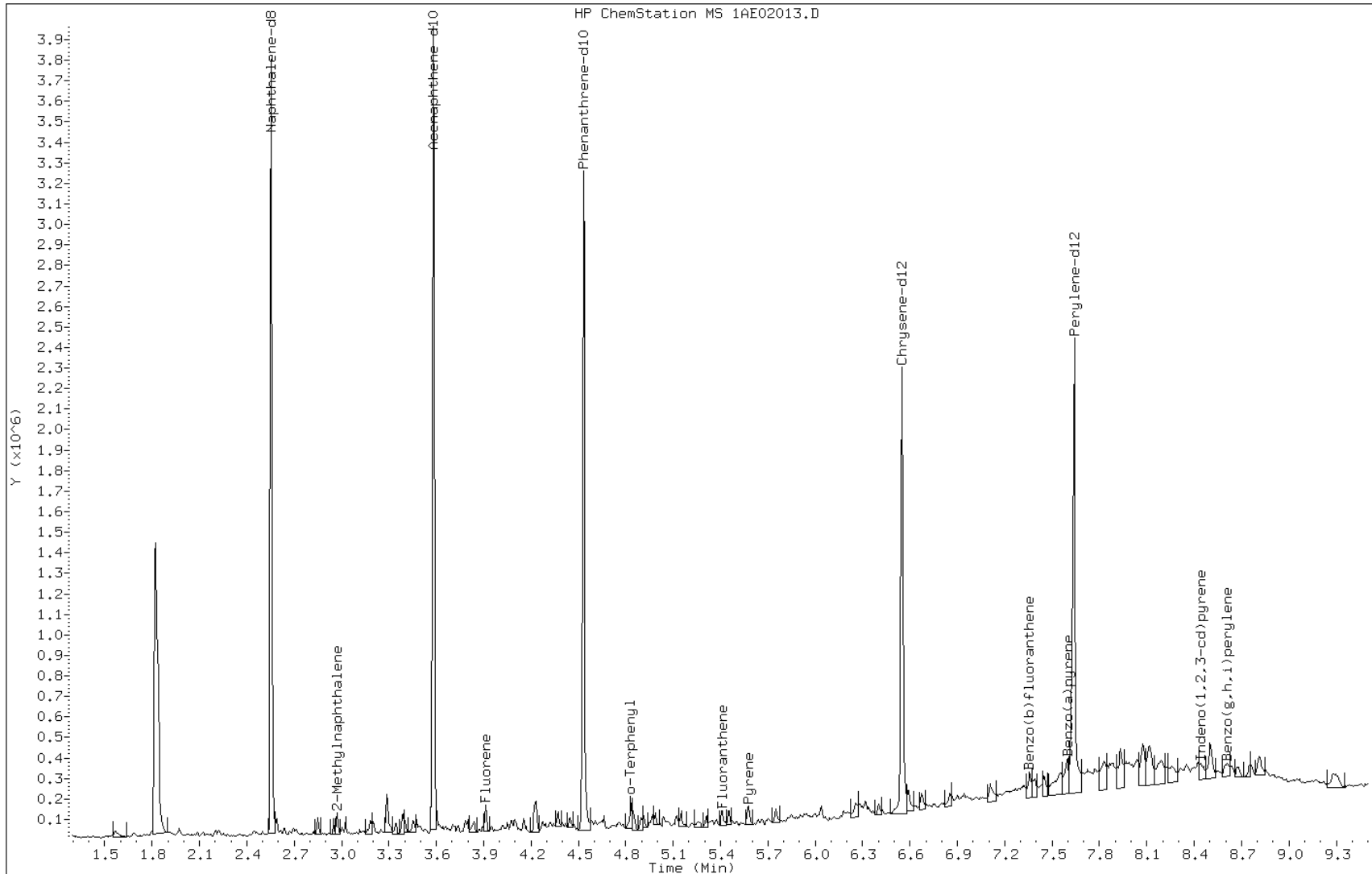
Date: 02-MAY-2013 18:12

Client ID: CV0121A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-18-a

Operator: SCC



Data File: 1AE02013.D

Date: 02-MAY-2013 18:12

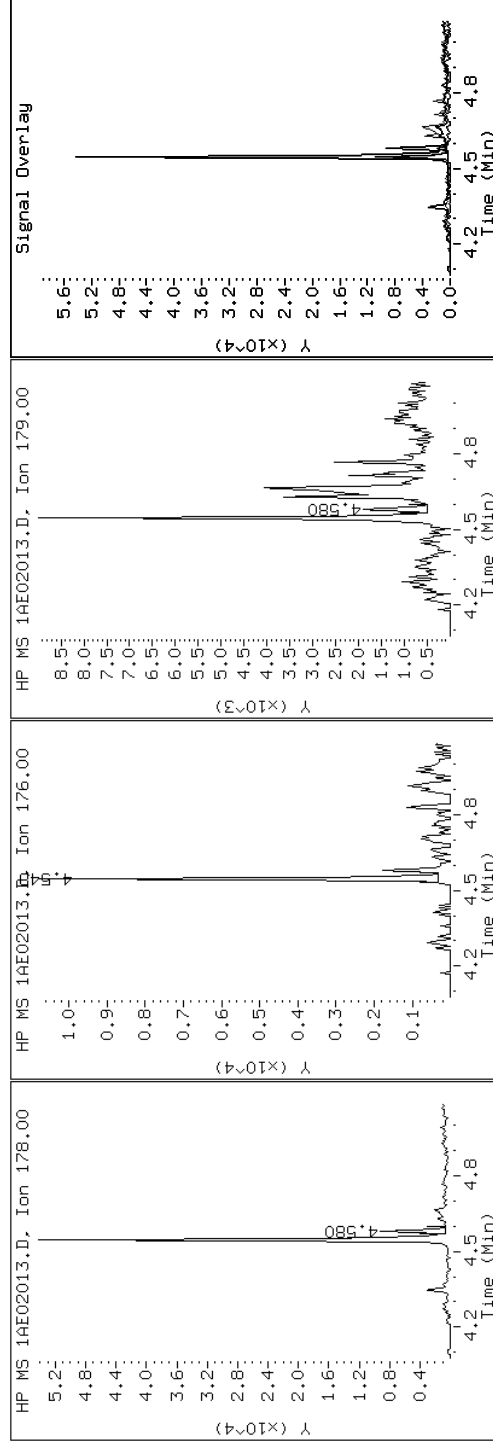
Client ID: CV0121A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-18-a

Operator: SCC

### 12 Anthracene



Data File: 1AE02013.D

Date: 02-MAY-2013 18:12

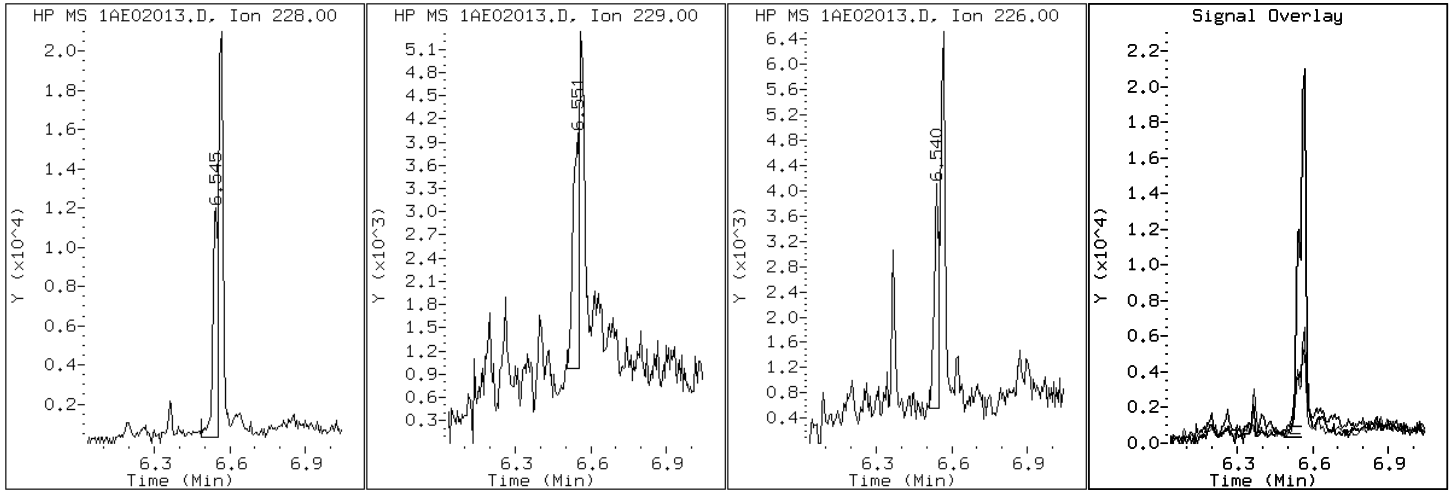
Client ID: CV0121A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-18-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AE02013.D

Date: 02-MAY-2013 18:12

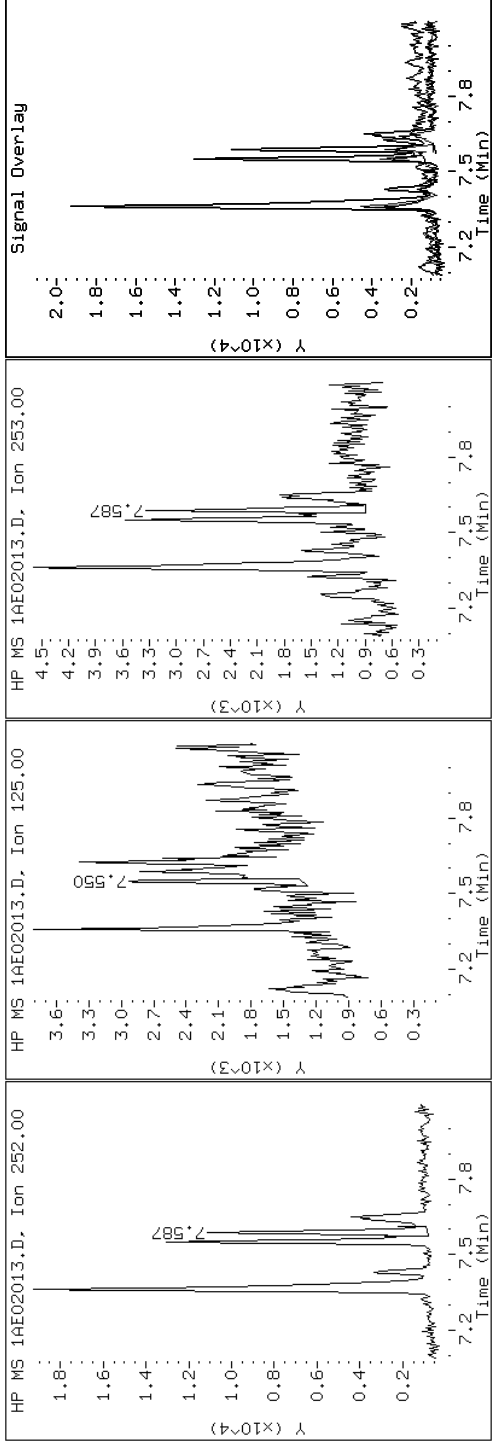
Client ID: CV0121A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-18-a

Operator: SCC

22 Benzo(a)pyrene





Data File: 1AE02013.D

Date: 02-MAY-2013 18:12

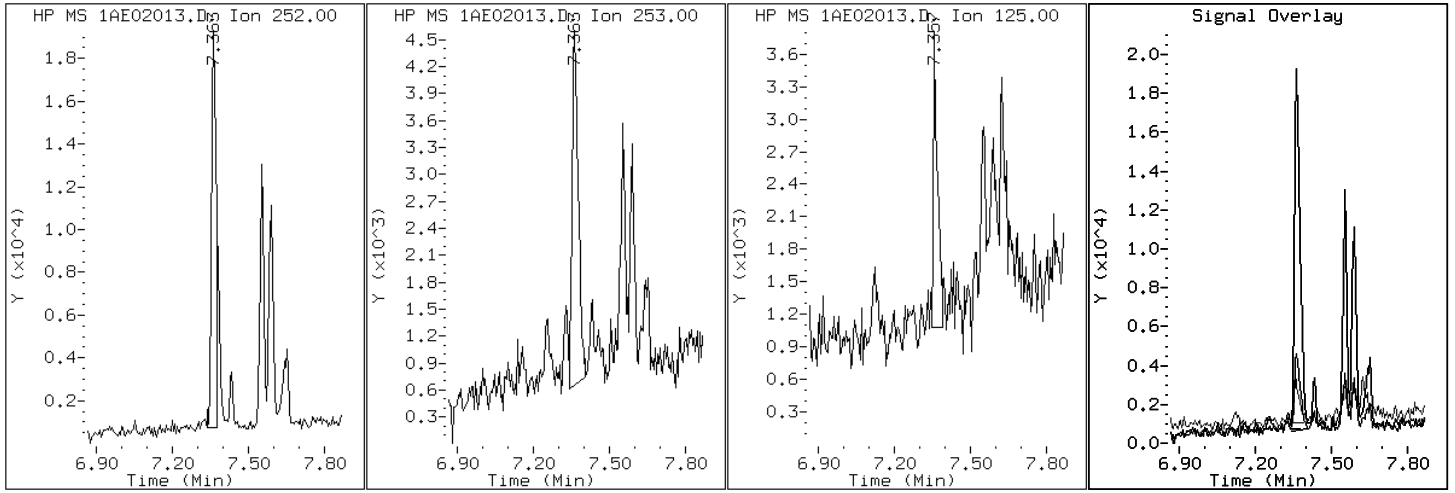
Client ID: CV0121A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-18-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AE02013.D

Date: 02-MAY-2013 18:12

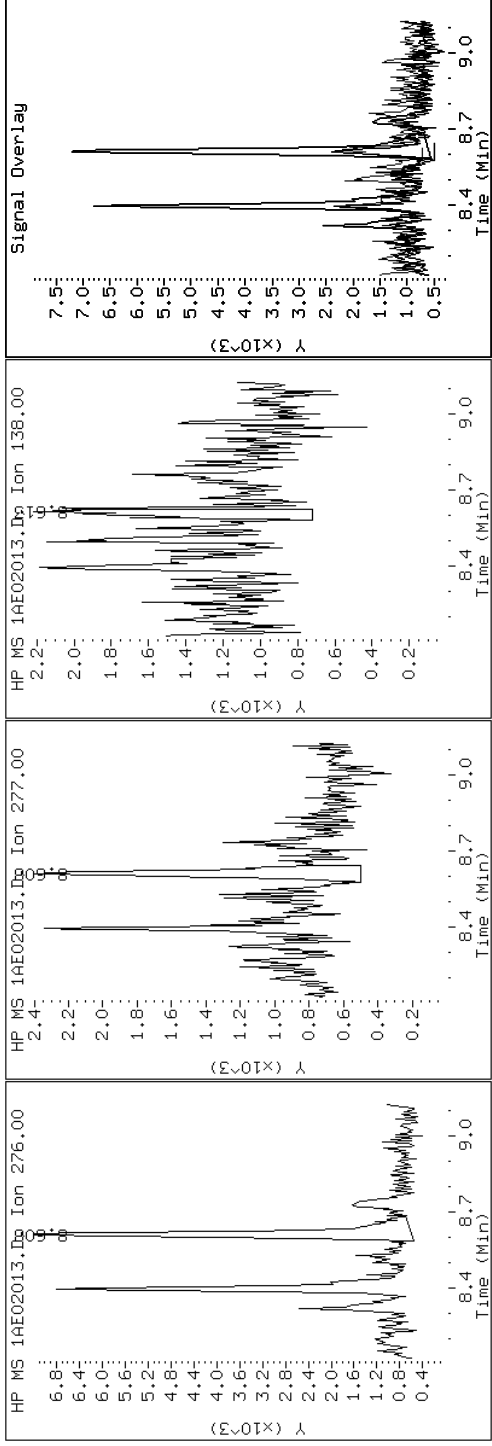
Client ID: CV0121A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-18-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AE02013.D

Date: 02-MAY-2013 18:12

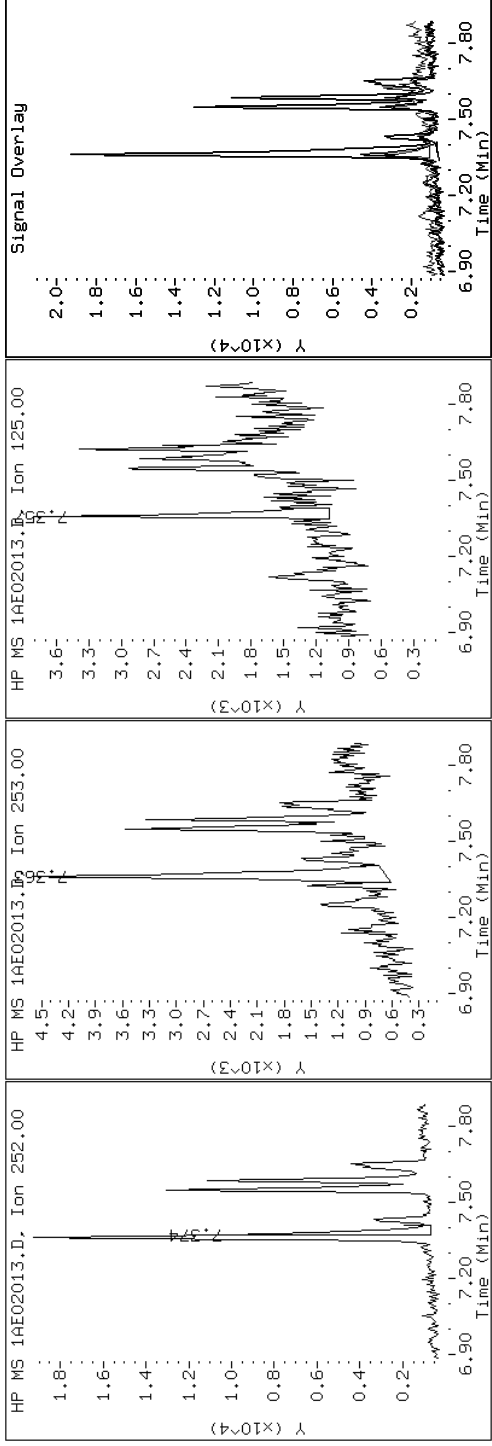
Client ID: CV0121A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-18-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AE02013.D

Date: 02-MAY-2013 18:12

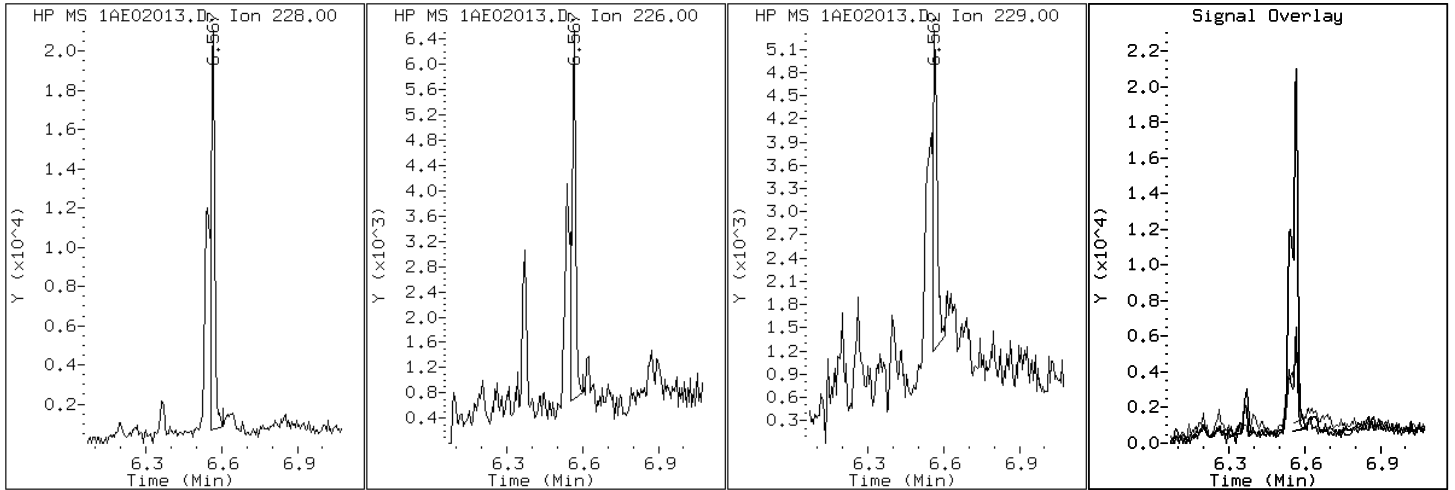
Client ID: CV0121A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-18-a

Operator: SCC

19 Chrysene



Data File: 1AE02013.D

Date: 02-MAY-2013 18:12

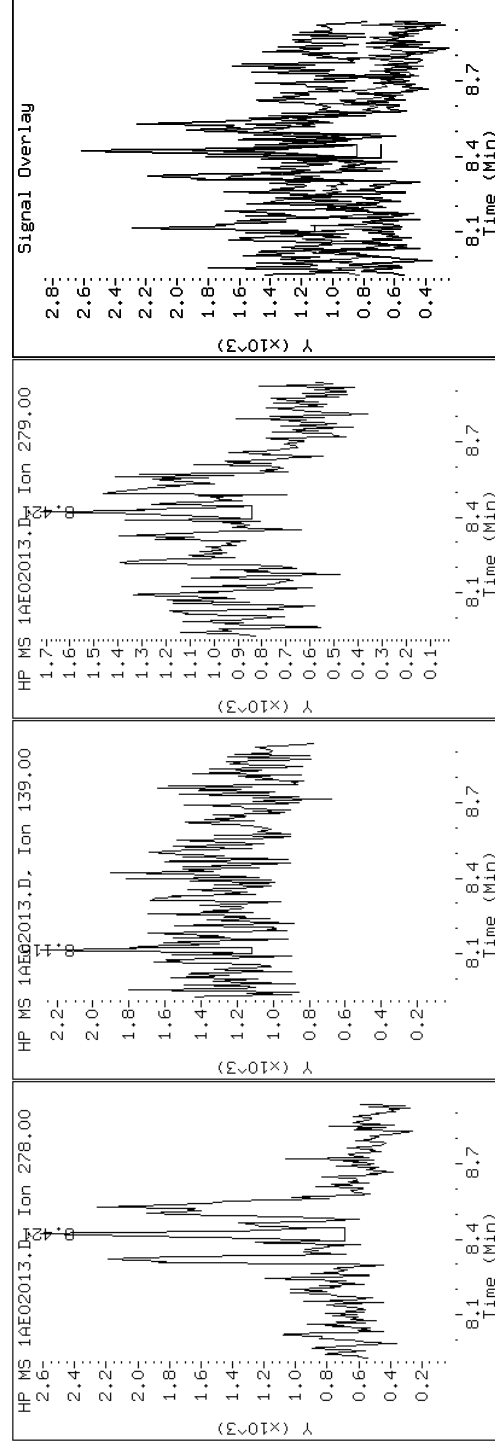
Client ID: CV0121A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-18-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AE02013.D

Date: 02-MAY-2013 18:12

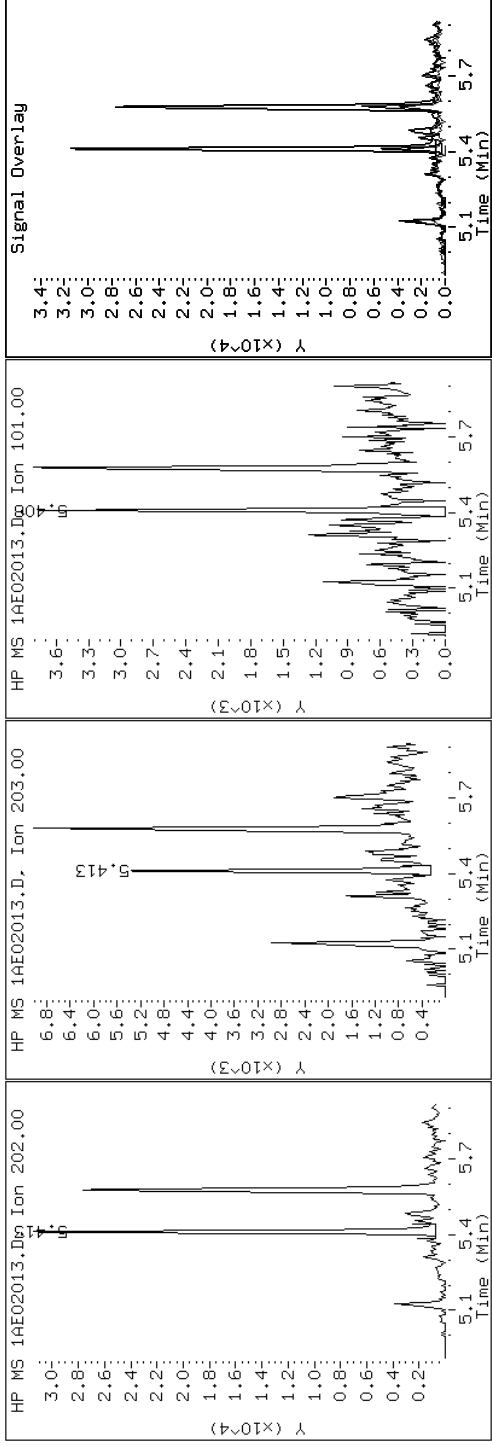
Client ID: CV0121A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-18-a

Operator: SCC

15 Fluoranthene



Data File: 1AE02013.D

Date: 02-MAY-2013 18:12

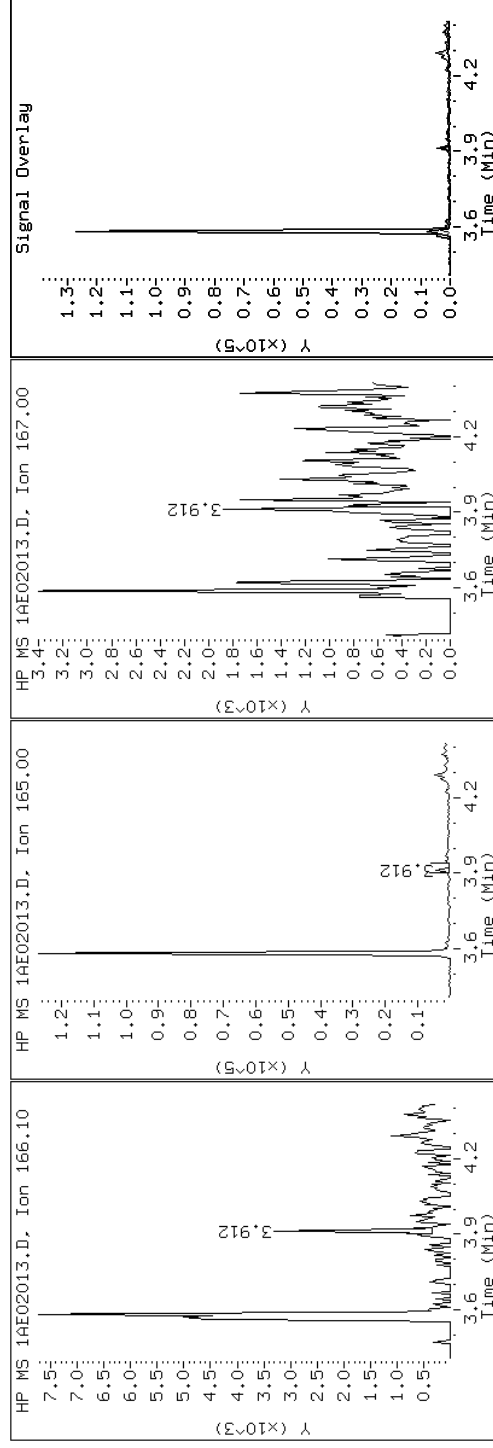
Client ID: CV0121A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-18-a

Operator: SCC

### 9 Fluorene



Data File: 1AE02013.D

Date: 02-MAY-2013 18:12

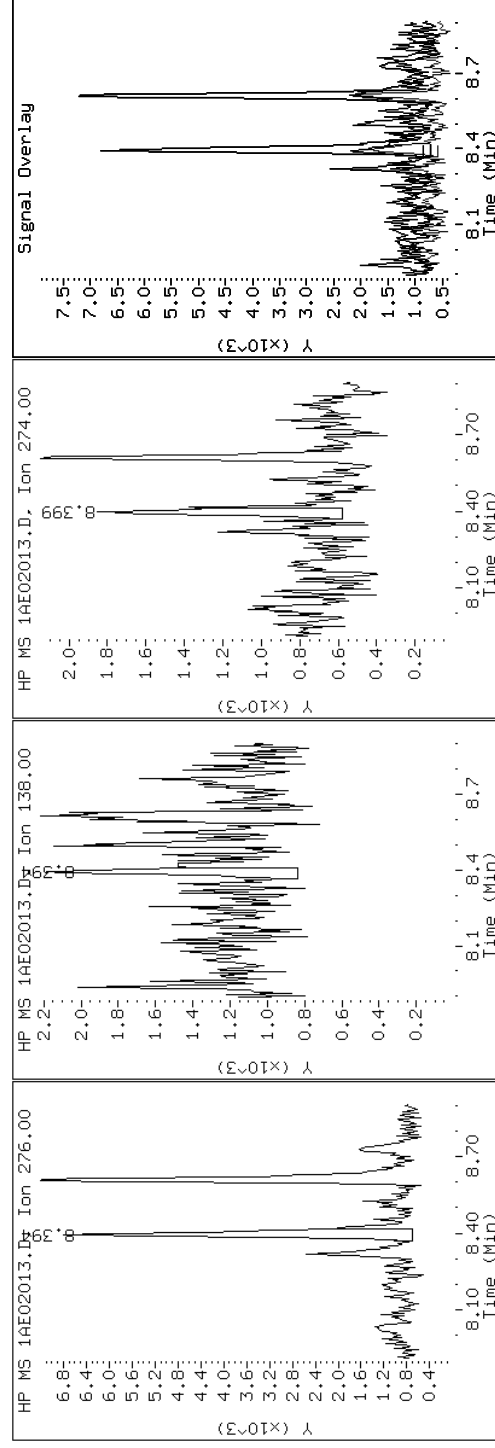
Client ID: CV0121A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-18-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene





Data File: 1AE02013.D

Date: 02-MAY-2013 18:12

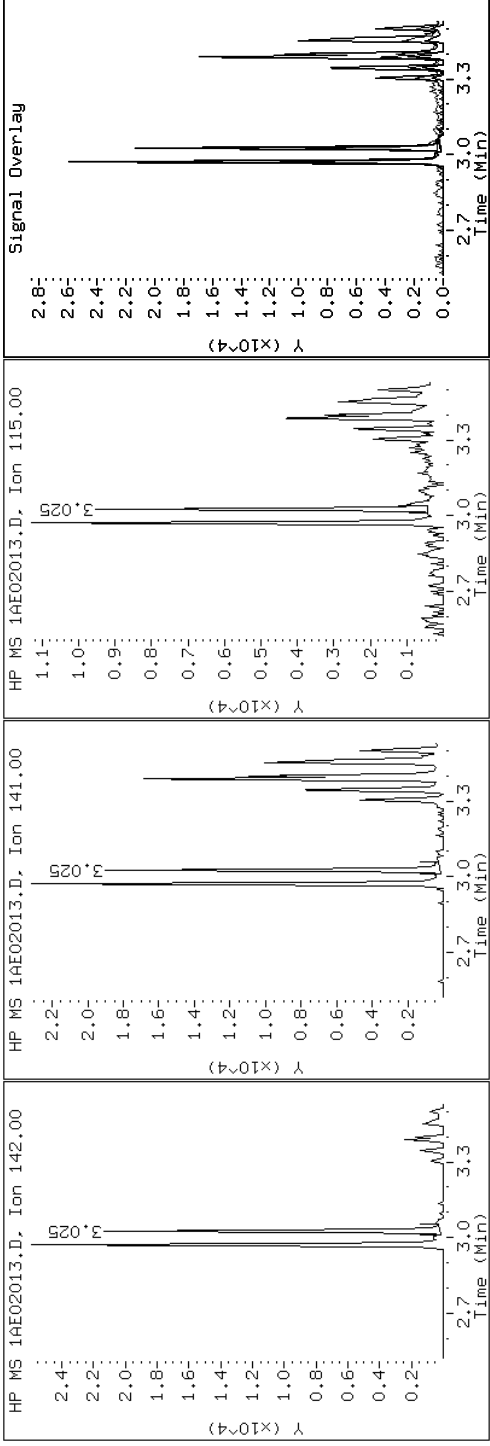
Client ID: CV0121A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-18-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE02013.D

Date: 02-MAY-2013 18:12

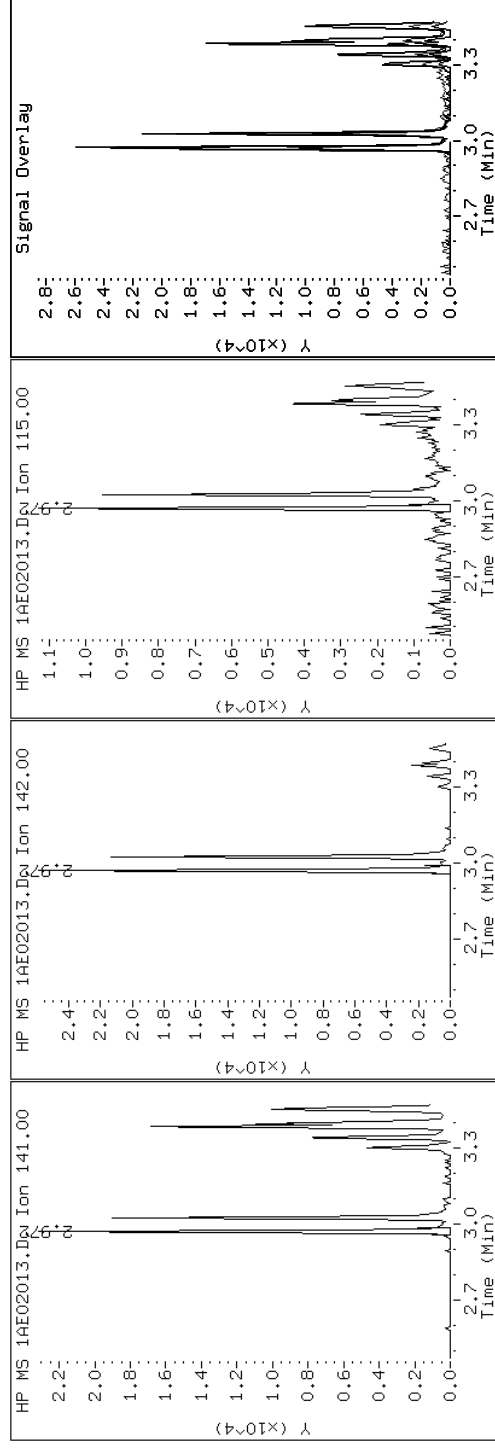
Client ID: CV0121A-CS-SP

Sample Info: 680-89791-a-18-a

Instrument: BSMA5973.i

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1AE02013.D

Date: 02-MAY-2013 18:12

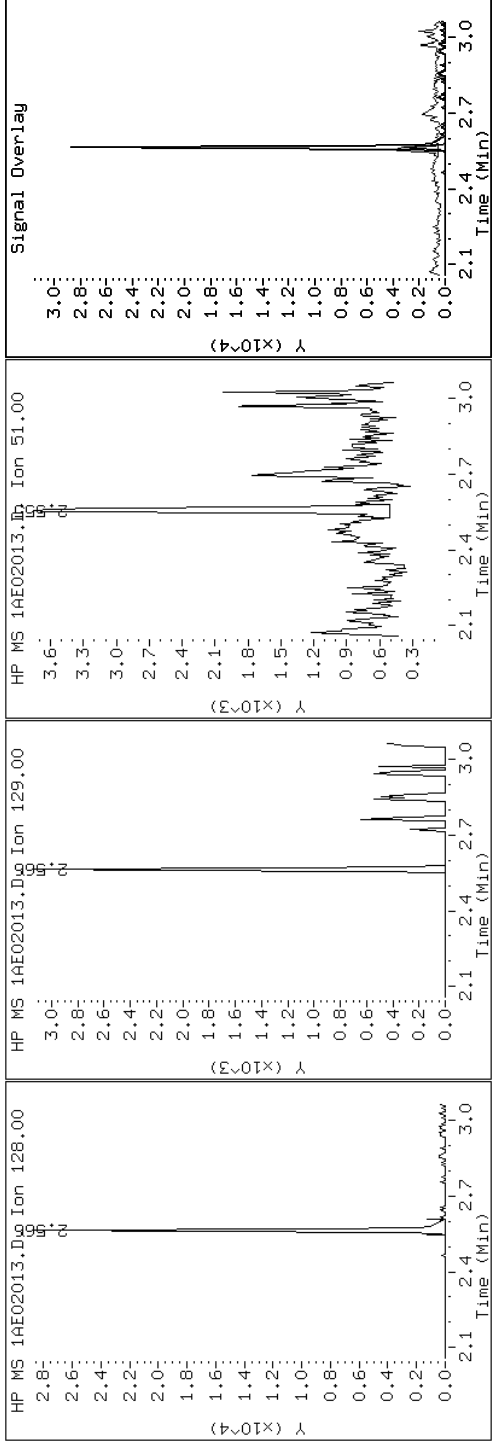
Client ID: CV0121A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-18-a

Operator: SCC

2 Naphthalene



Data File: 1AE02013.D

Date: 02-MAY-2013 18:12

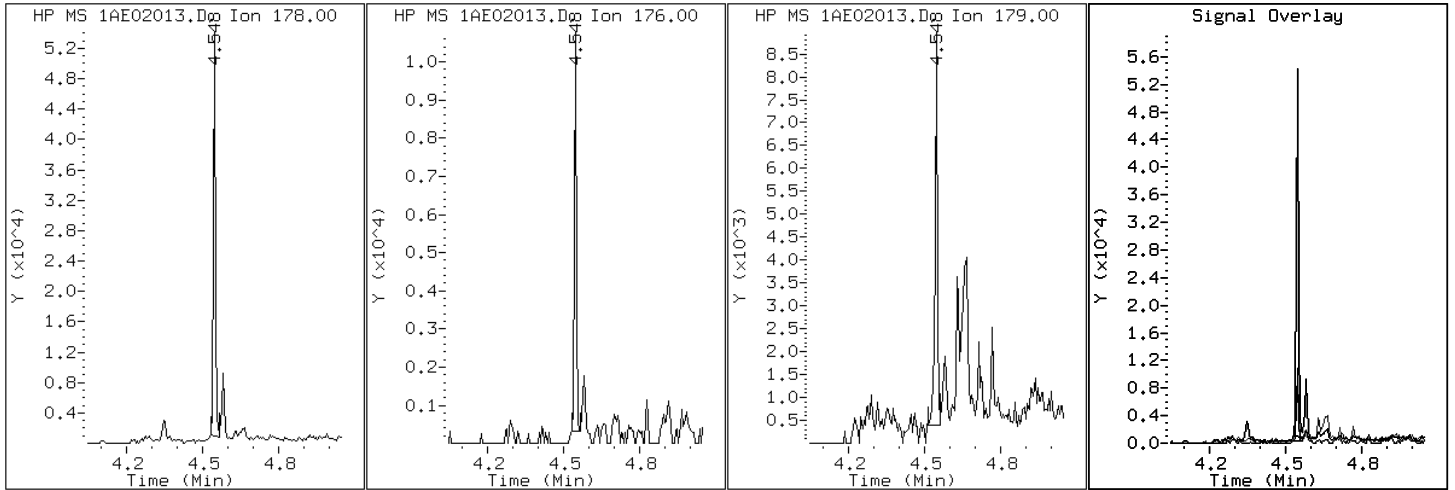
Client ID: CV0121A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-18-a

Operator: SCC

11 Phenanthrene



Data File: 1AE02013.D

Date: 02-MAY-2013 18:12

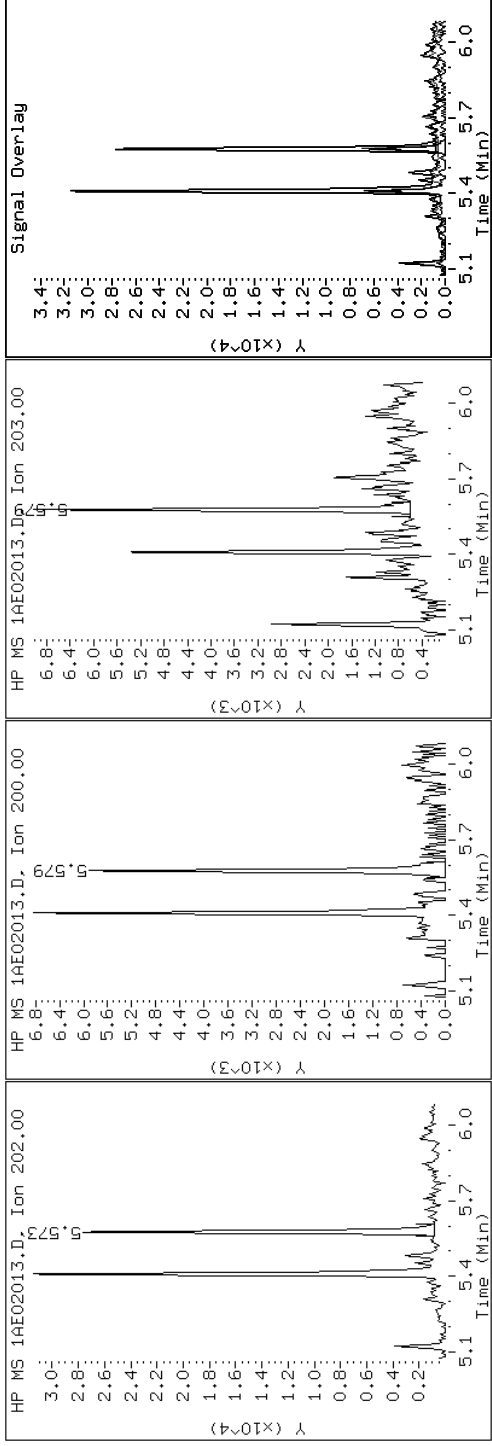
Client ID: CV0121A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-18-a

Operator: SCC

16 Pyrene

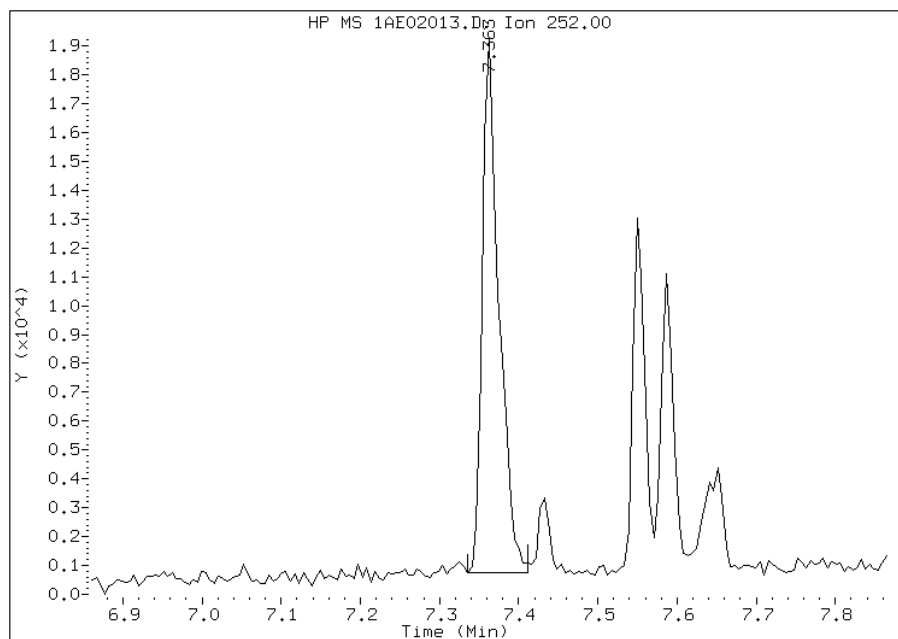


# Manual Integration Report

Data File: 1AE02013.D  
Inj. Date and Time: 02-MAY-2013 18:12  
Instrument ID: BSMA5973.i  
Client ID: CV0121A-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 05/03/2013

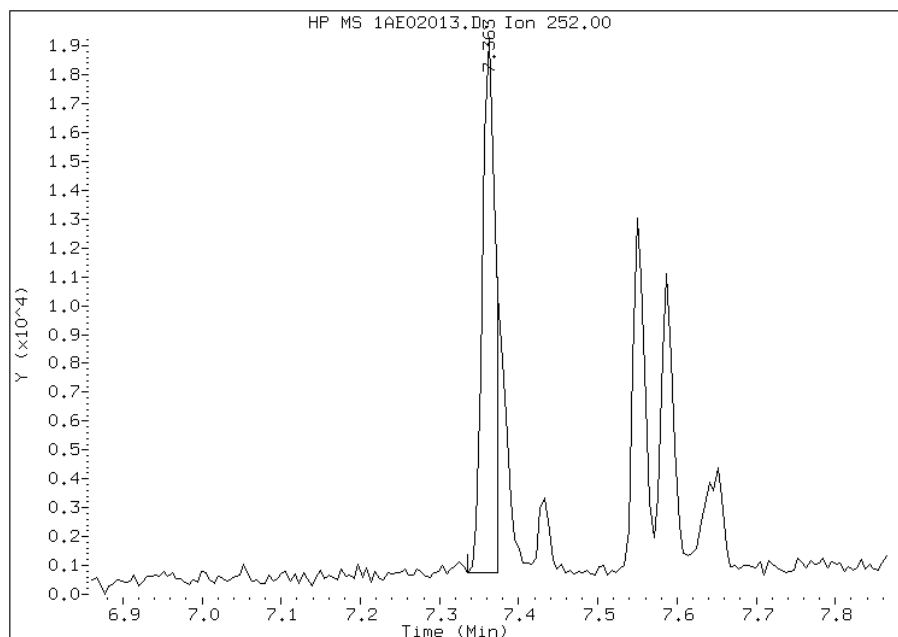
## Processing Integration Results

RT: 7.36  
Response: 26586  
Amount: 1  
Conc: 374



## Manual Integration Results

RT: 7.36  
Response: 20861  
Amount: 1  
Conc: 294



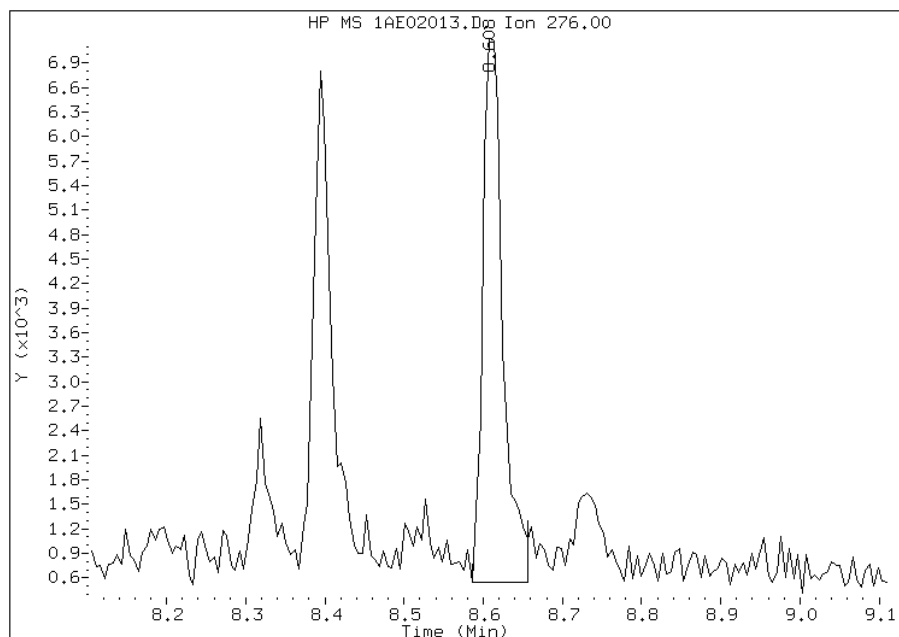
Manually Integrated By: cantins  
Modification Date: 03-May-2013 10:29  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AE02013.D  
Inj. Date and Time: 02-MAY-2013 18:12  
Instrument ID: BSMA5973.i  
Client ID: CV0121A-CS-SP  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 05/03/2013

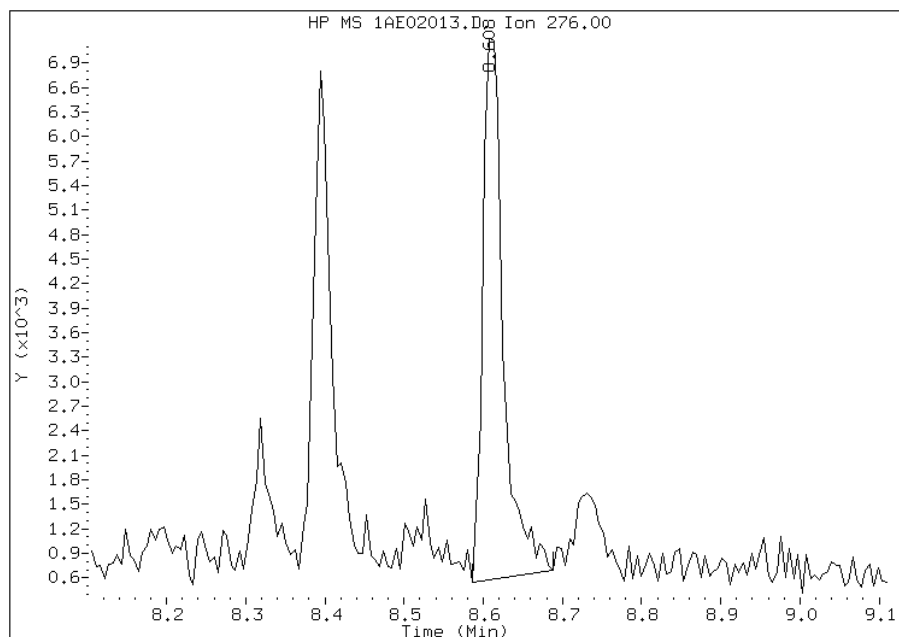
## Processing Integration Results

RT: 8.61  
Response: 11598  
Amount: 0  
Conc: 155



## Manual Integration Results

RT: 8.61  
Response: 11829  
Amount: 0  
Conc: 158



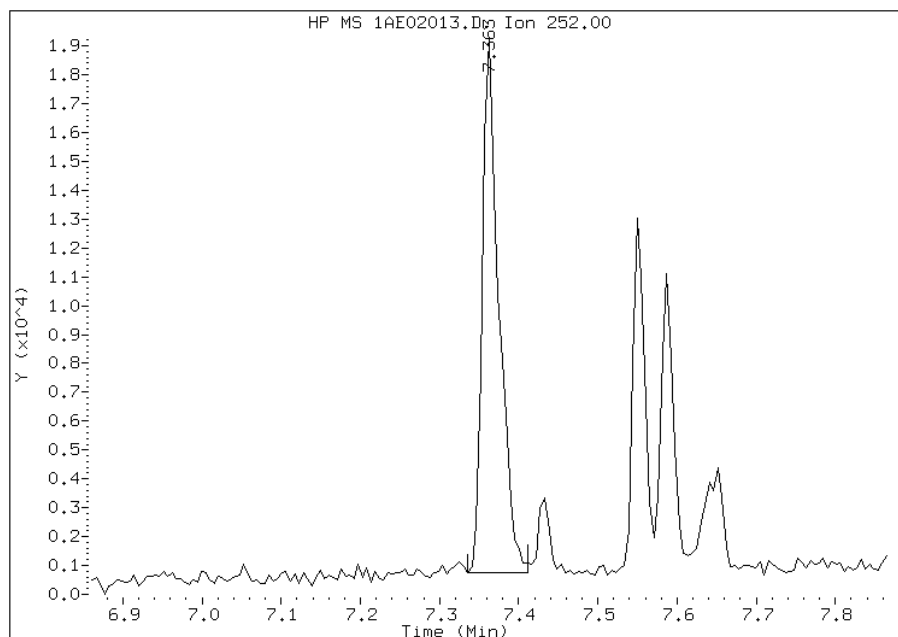
Manually Integrated By: cantins  
Modification Date: 03-May-2013 10:30  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE02013.D  
Inj. Date and Time: 02-MAY-2013 18:12  
Instrument ID: BSMA5973.i  
Client ID: CV0121A-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 05/03/2013

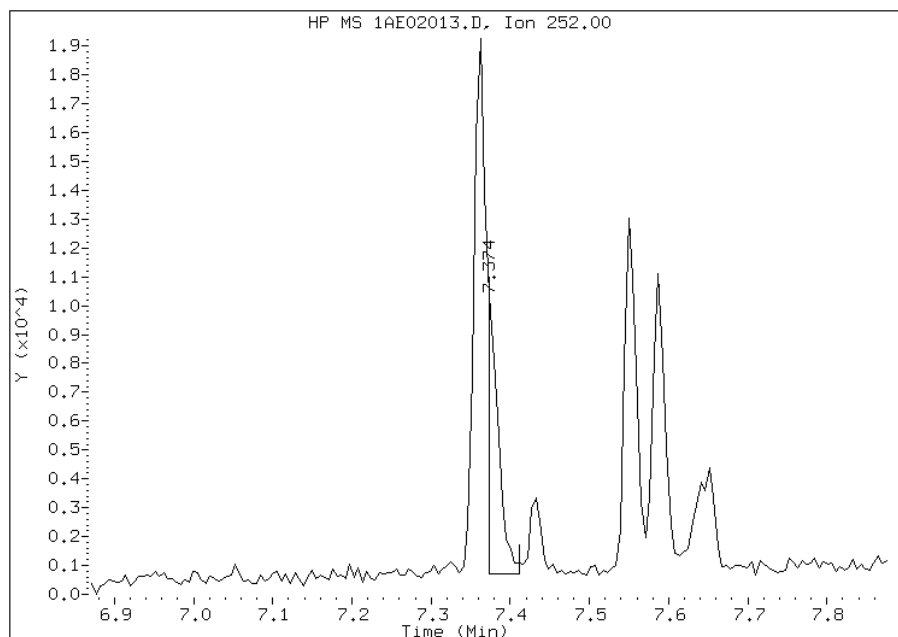
## Processing Integration Results

RT: 7.36  
Response: 26586  
Amount: 1  
Conc: 326



## Manual Integration Results

RT: 7.37  
Response: 8960  
Amount: 0  
Conc: 110



Manually Integrated By: cantins  
Modification Date: 03-May-2013 10:30  
Manual Integration Reason: Baseline Event



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: CV0121B-CS-SP Lab Sample ID: 680-89791-19  
 Matrix: Solid Lab File ID: 1AE02014.D  
 Analysis Method: 8270C LL Date Collected: 04/25/2013 11:12  
 Extract. Method: 3546 Date Extracted: 04/30/2013 14:42  
 Sample wt/vol: 14.94 (g) Date Analyzed: 05/02/2013 18:27  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: 28.4 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137070 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	36	J	56	7.0
120-12-7	Anthracene	57		12	5.9
56-55-3	Benzo[a]anthracene	160		11	5.5
50-32-8	Benzo[a]pyrene	130		15	7.3
205-99-2	Benzo[b]fluoranthene	210		17	8.6
191-24-2	Benzo[g,h,i]perylene	99		28	6.2
207-08-9	Benzo[k]fluoranthene	85		11	5.0
218-01-9	Chrysene	210		13	6.3
53-70-3	Dibenz(a,h)anthracene	36		28	5.7
206-44-0	Fluoranthene	190		28	5.6
86-73-7	Fluorene	19	J	28	5.7
193-39-5	Indeno[1,2,3-cd]pyrene	86		28	10
90-12-0	1-Methylnaphthalene	320		56	6.2
91-57-6	2-Methylnaphthalene	340		56	10
91-20-3	Naphthalene	250		56	6.2
85-01-8	Phenanthrene	300		11	5.5
129-00-0	Pyrene	200		28	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	43		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02014.D  
 Lab Smp Id: 680-89791-A-19-A Client Smp ID: CV0121B-CS-SP  
 Inj Date : 02-MAY-2013 18:27  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-89791-a-19-a  
 Misc Info : 680-89791-A-19-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\A-BFASTPAHi-m.m  
 Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 11  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	28.387	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.554	2.550	(1.000)	1507953	40.0000		
* 6 Acenaphthene-d10	164		3.585	3.581	(1.000)	788272	40.0000		
* 10 Phenanthrene-d10	188		4.536	4.532	(1.000)	1177449	40.0000		
\$ 14 o-Terphenyl	230		4.836	4.831	(1.066)	83598	4.34076	405.7173	
* 18 Chrysene-d12	240		6.561	6.551	(1.000)	951530	40.0000		
* 23 Perylene-d12	264		7.645	7.641	(1.000)	1107431	40.0000		
2 Naphthalene	128		2.565	2.560	(1.004)	102640	2.72285	254.4969	
3 2-Methylnaphthalene	141		2.971	2.972	(1.163)	79618	3.68401	344.3328	
4 1-Methylnaphthalene	142		3.025	3.025	(1.184)	81446	3.40151	317.9285	
5 Acenaphthylene	152		3.495	3.490	(0.975)	17670	0.38356	35.8498	
9 Fluorene	166		3.917	3.912	(1.092)	5779	0.19881	18.5825(Q)	
11 Phenanthrene	178		4.547	4.548	(1.002)	109793	3.21895	300.8653	
12 Anthracene	178		4.584	4.580	(1.011)	21741	0.61302	57.2972	
13 Carbazole	167		4.718	4.713	(1.040)	9615	0.28103	26.2672	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.412	5.413	(1.193)	81661	2.07283	193.7411
16 Pyrene	202	5.578	5.579	(0.850)	79204	2.18184	203.9295
17 Benzo(a)anthracene	228	6.550	6.540	(0.998)	52169	1.67885	156.9173
19 Chrysene	228	6.572	6.572	(1.002)	72041	2.28517	213.5883
20 Benzo(b)fluoranthene	252	7.368	7.363	(0.964)	75782	2.25401	210.6756(M)
21 Benzo(k)fluoranthene	252	7.378	7.384	(0.965)	35209	0.91084	85.1332(QM)
22 Benzo(a)pyrene	252	7.592	7.593	(0.993)	45350	1.35589	126.7308
24 Indeno(1,2,3-cd)pyrene	276	8.404	8.405	(1.099)	29119	0.92205	86.1815(M)
25 Dibenzo(a,h)anthracene	278	8.425	8.431	(1.102)	11329	0.38555	36.0359
26 Benzo(g,h,i)perylene	276	8.623	8.624	(1.128)	37289	1.05501	98.6084

QC Flag Legend

Q - Qualifier signal failed the ratio test.  
 M - Compound response manually integrated.

Data File: 1AE02014.D

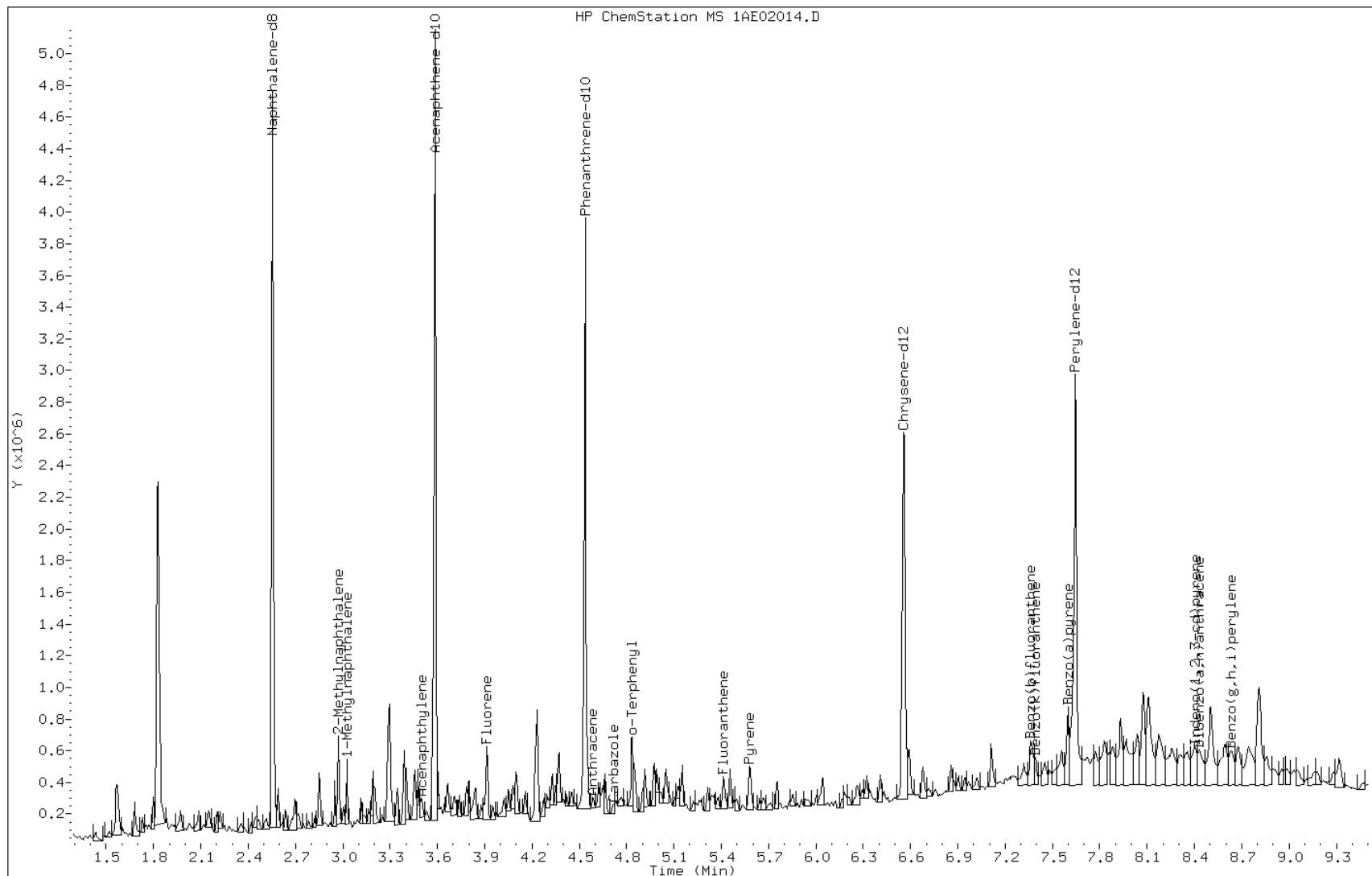
Date: 02-MAY-2013 18:27

Client ID: CV0121B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-19-a

Operator: SCC



Data File: 1AE02014.D

Date: 02-MAY-2013 18:27

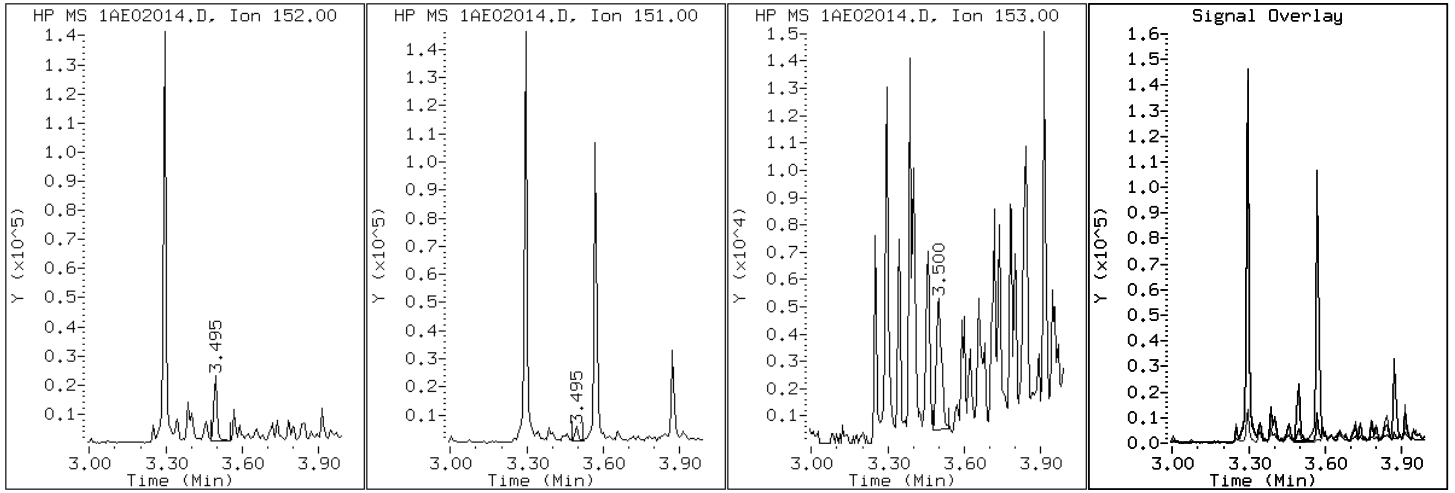
Client ID: CV0121B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-19-a

Operator: SCC

5 Acenaphthylene



Data File: 1AE02014.D

Date: 02-MAY-2013 18:27

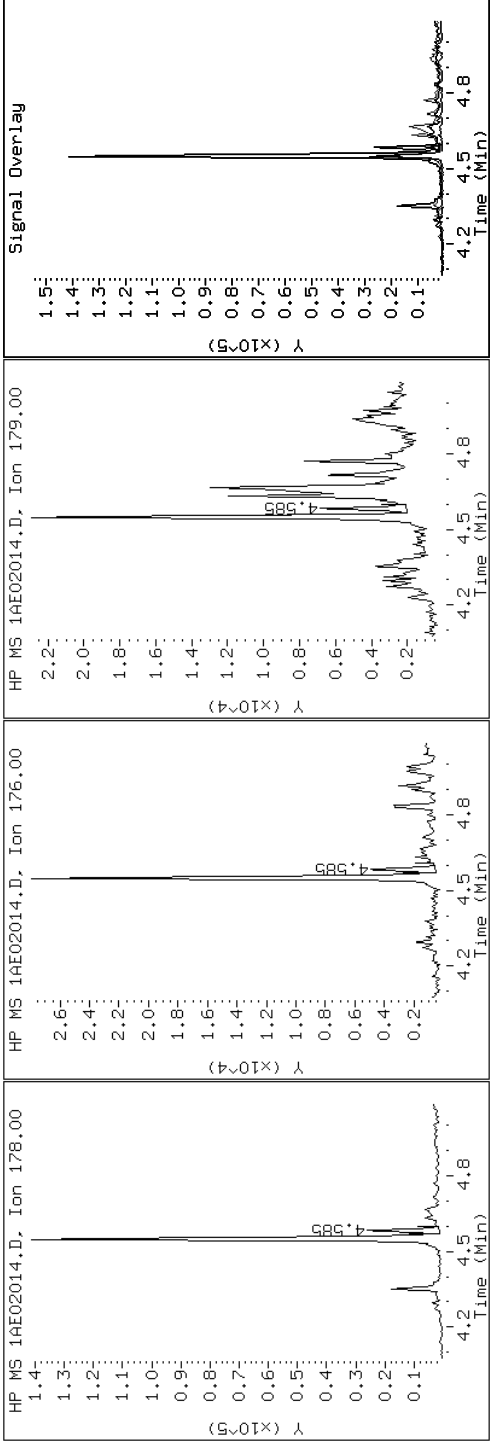
Client ID: CV0121B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-19-a

Operator: SCC

12 Anthracene



Data File: 1AE02014.D

Date: 02-MAY-2013 18:27

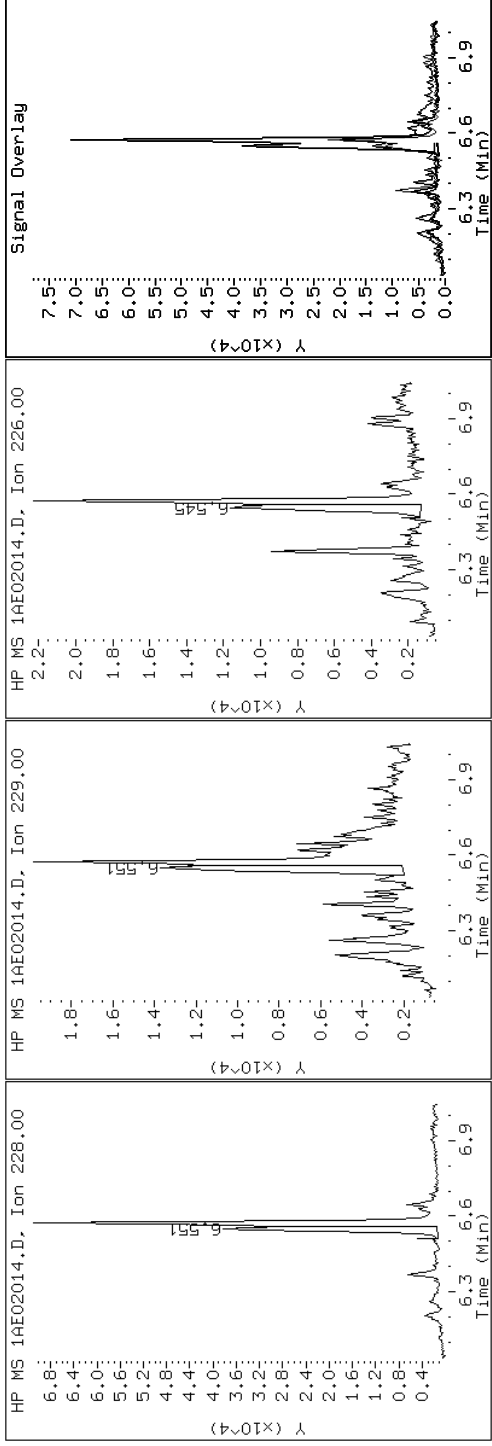
Client ID: CV0121B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-19-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AE02014.D

Date: 02-MAY-2013 18:27

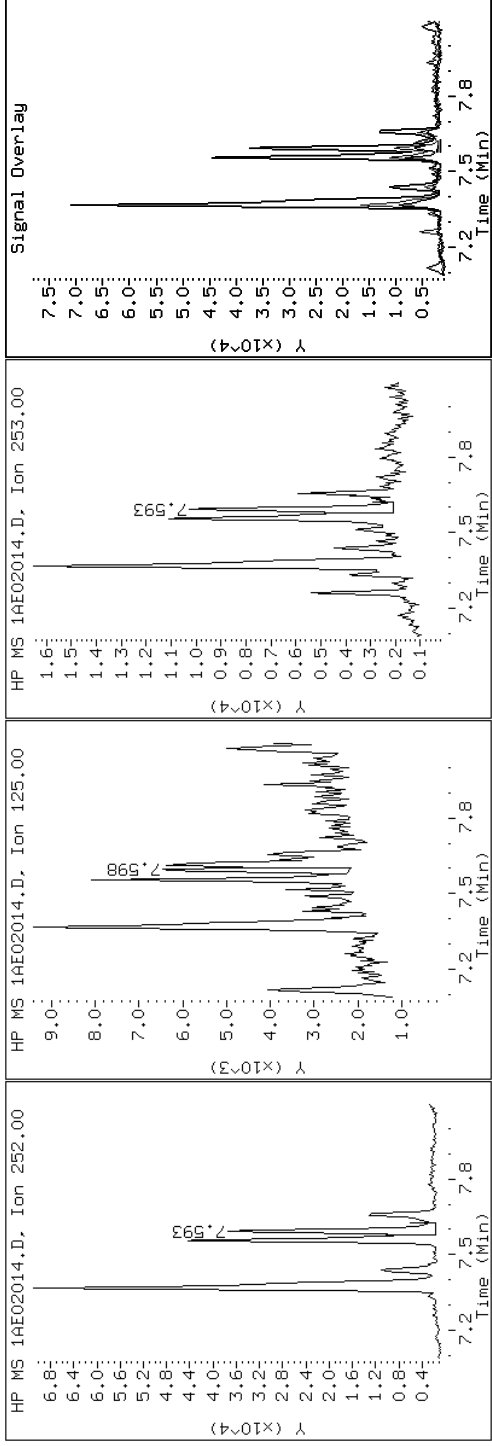
Client ID: CV0121B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-19-a

Operator: SCC

22 Benzo(a)pyrene





Data File: 1AE02014.D

Date: 02-MAY-2013 18:27

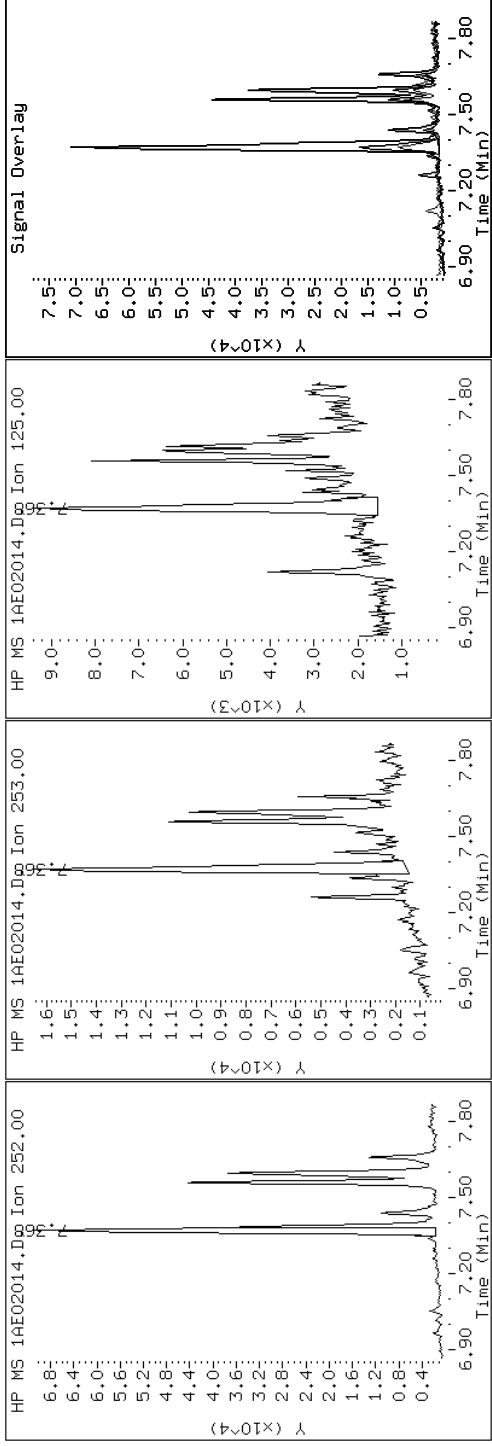
Client ID: CV0121B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-19-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AE02014.D

Date: 02-MAY-2013 18:27

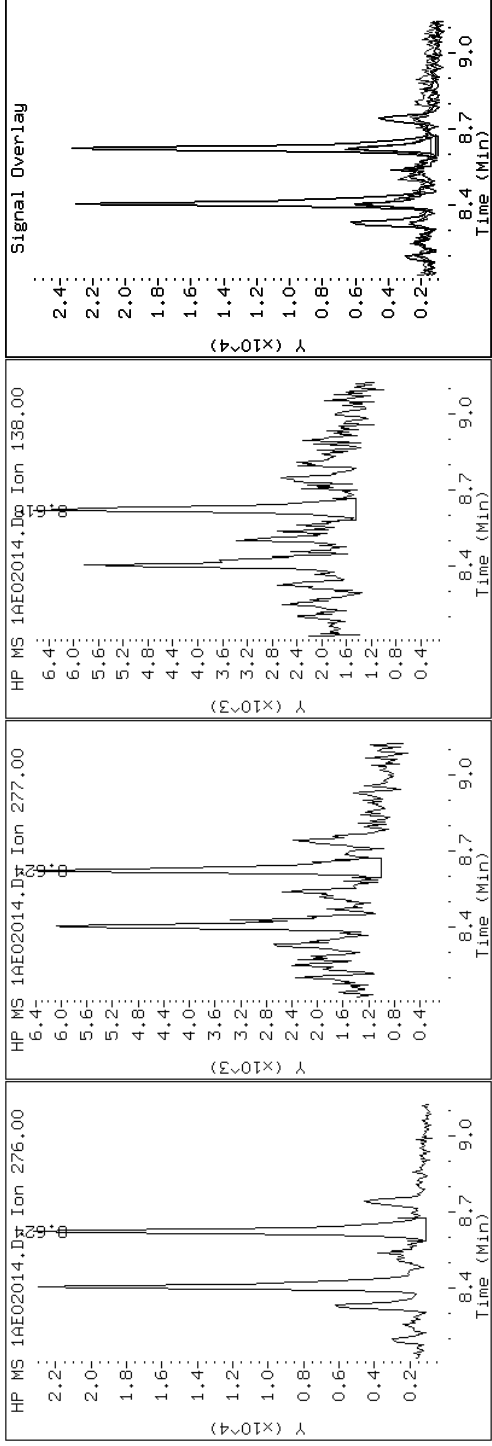
Client ID: CV0121B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-19-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AE02014.D

Date: 02-MAY-2013 18:27

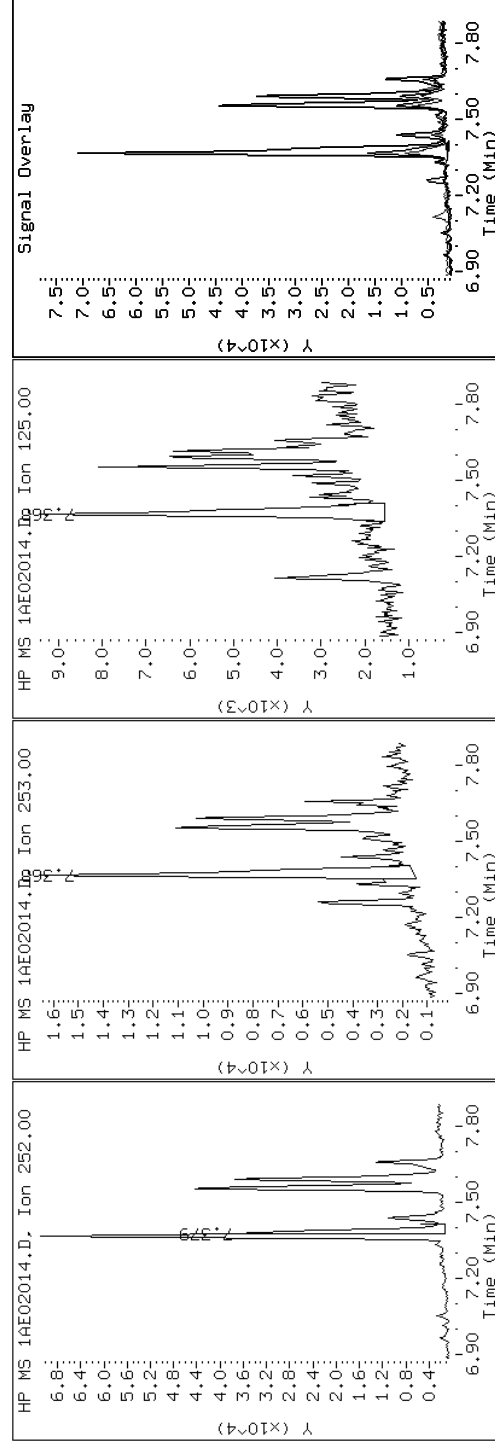
Client ID: CV0121B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-19-a

Operator: SCC

### 21 Benzo(k)fluoranthene



Data File: 1AE02014.D

Date: 02-MAY-2013 18:27

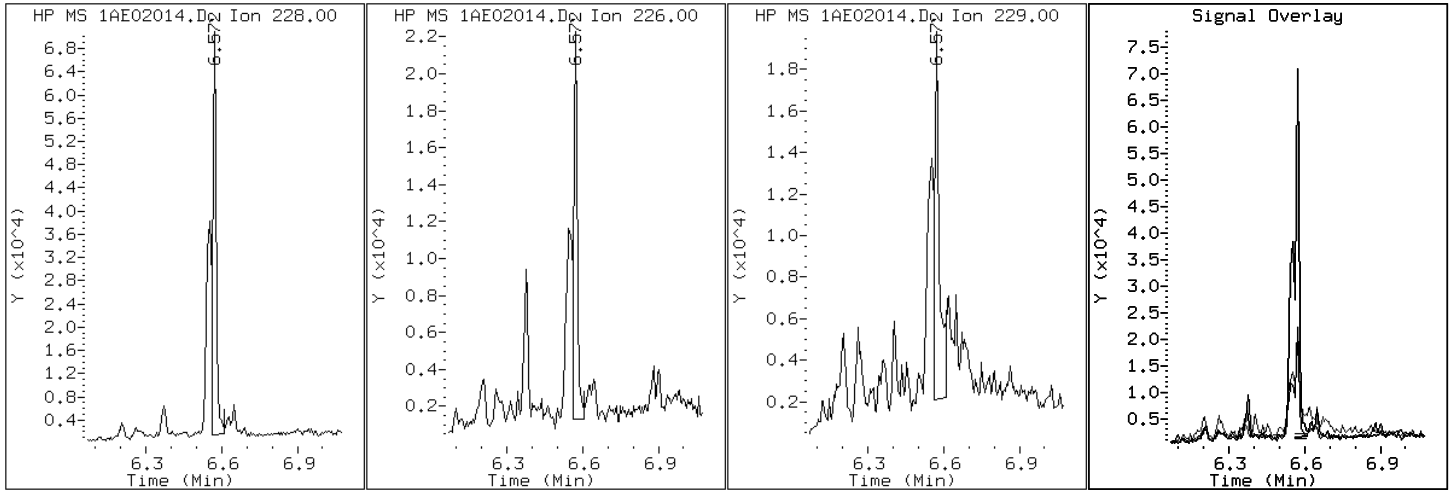
Client ID: CV0121B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-19-a

Operator: SCC

19 Chrysene



Data File: 1AE02014.D

Date: 02-MAY-2013 18:27

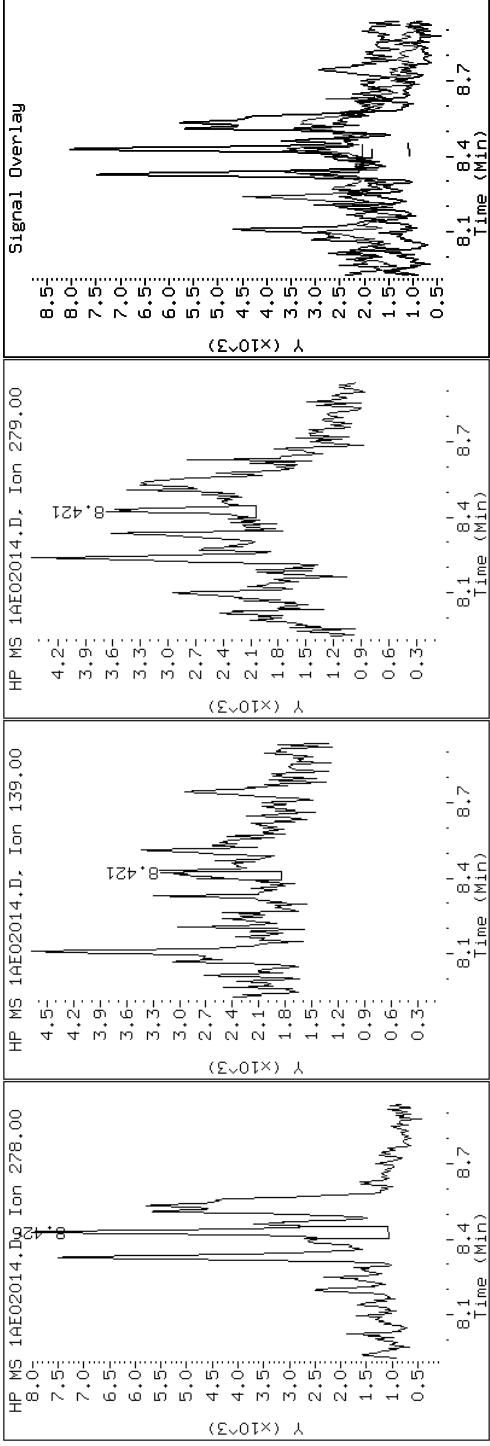
Client ID: CV0121B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-19-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AE02014.D

Date: 02-MAY-2013 18:27

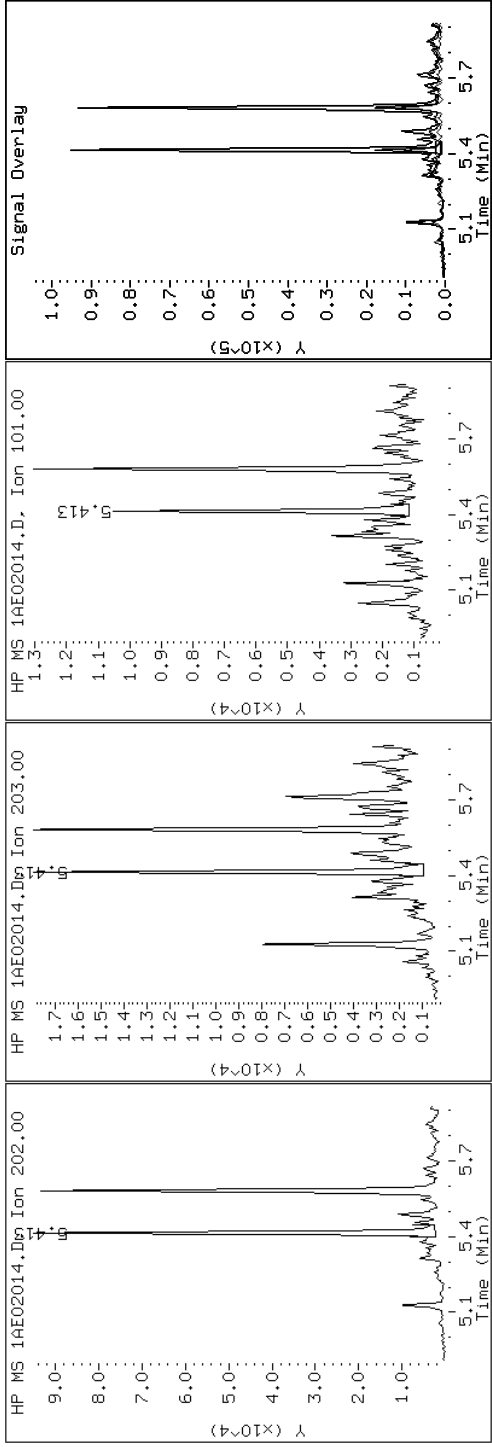
Client ID: CV0121B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-19-a

Operator: SCC

15 Fluoranthene



Data File: 1AE02014.D

Date: 02-MAY-2013 18:27

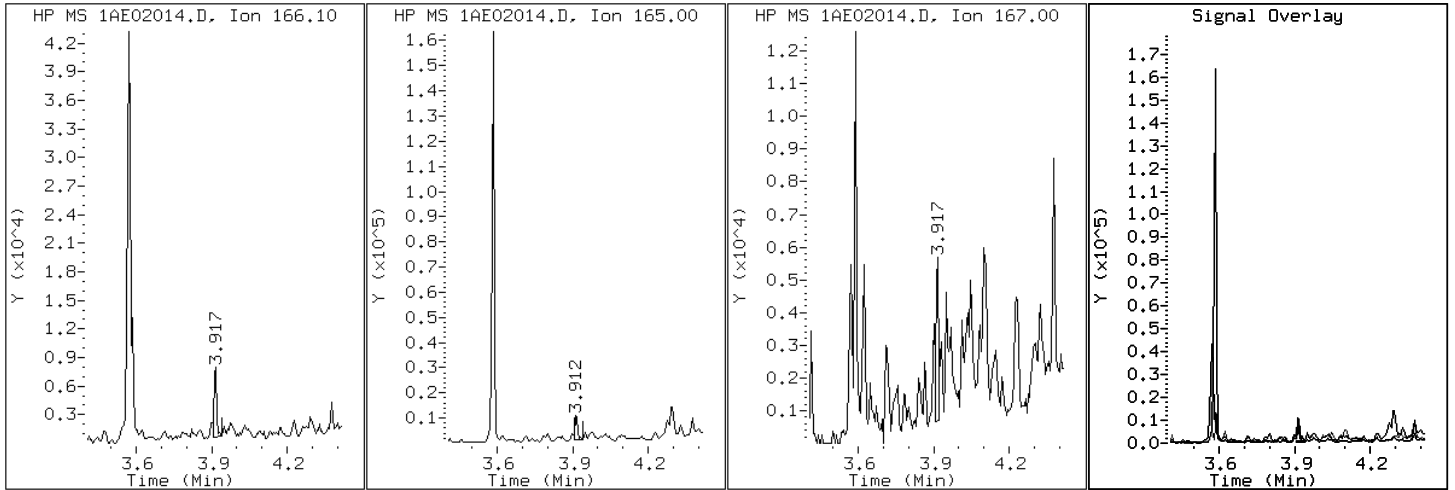
Client ID: CV0121B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-19-a

Operator: SCC

9 Fluorene



Data File: 1AE02014.D

Date: 02-MAY-2013 18:27

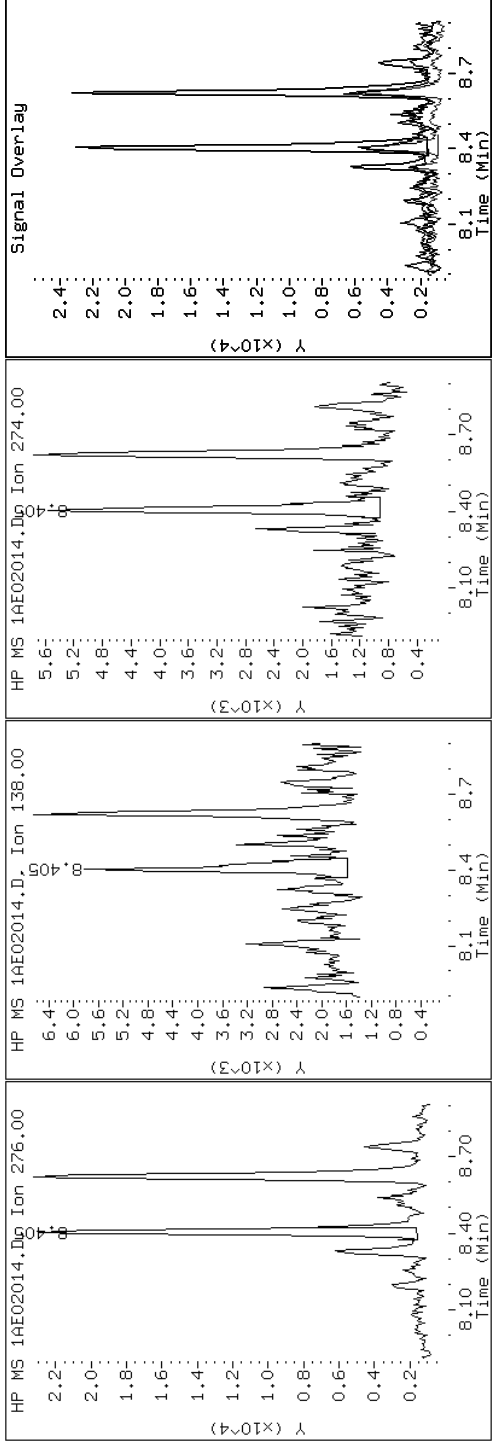
Client ID: CV0121B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-19-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene





Data File: 1AE02014.D

Date: 02-MAY-2013 18:27

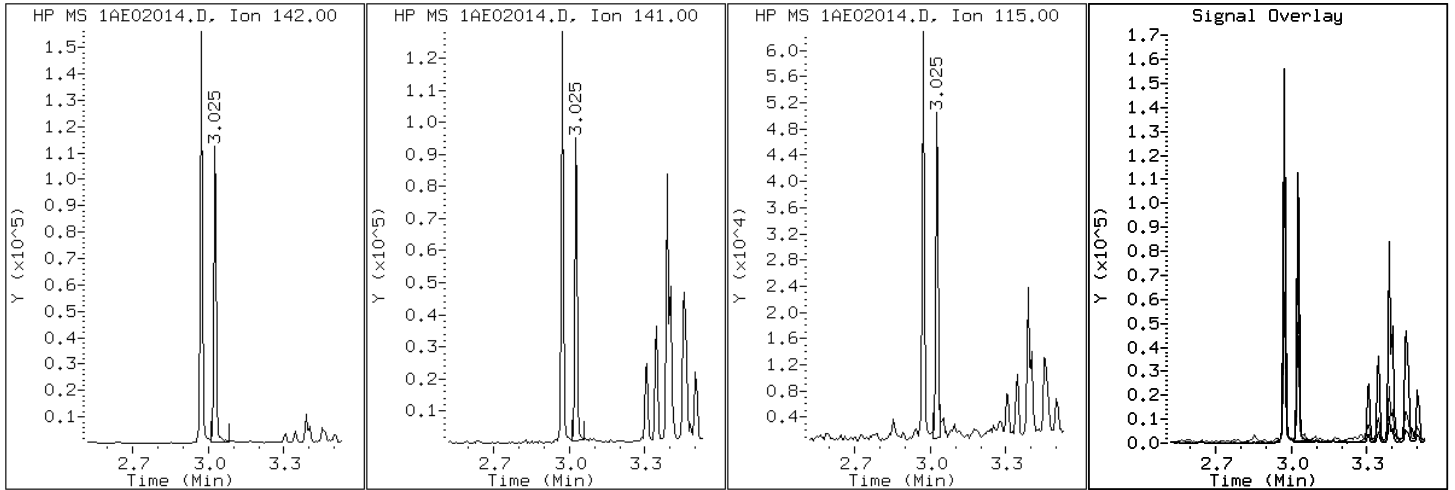
Client ID: CV0121B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-19-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE02014.D

Date: 02-MAY-2013 18:27

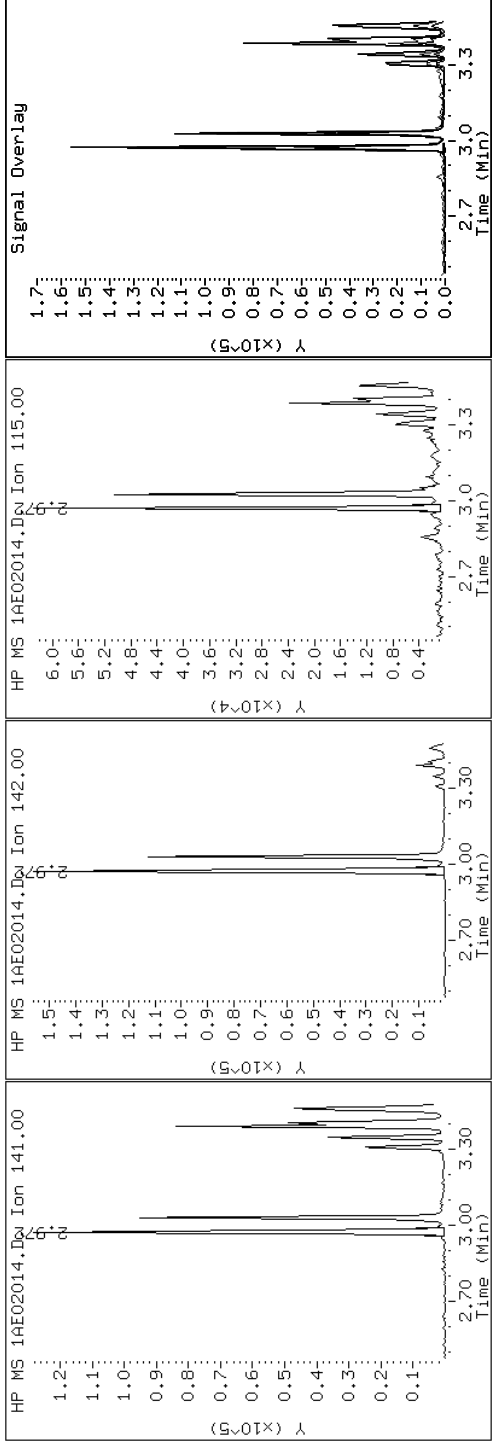
Client ID: CV0121B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-19-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1AE02014.D

Date: 02-MAY-2013 18:27

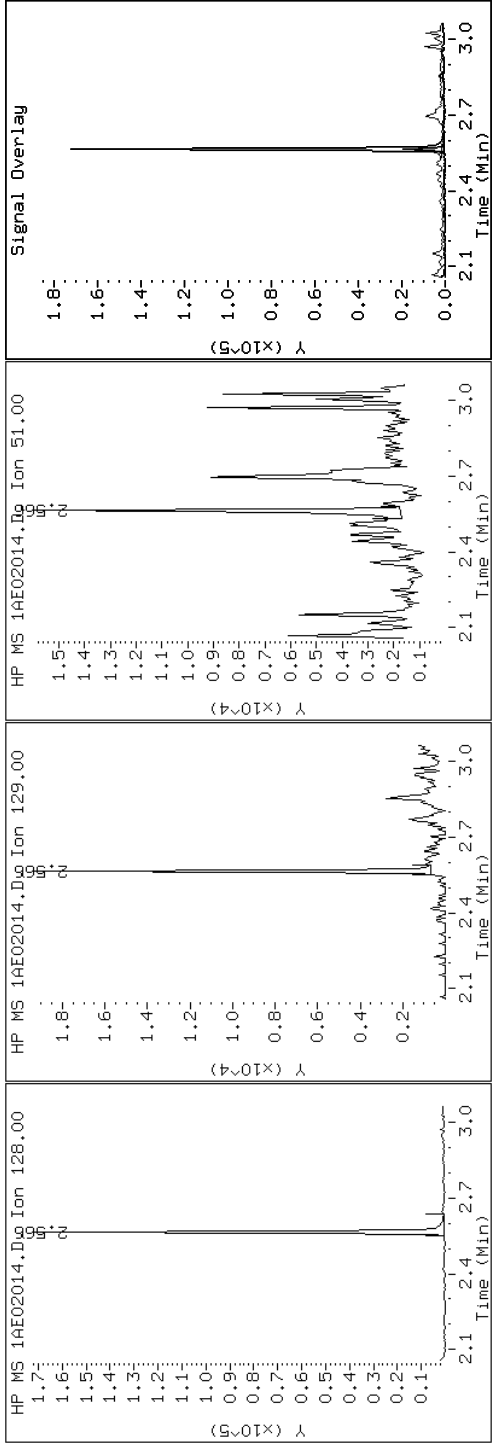
Client ID: CV0121B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-19-a

Operator: SCC

### 2 Naphthalene



Data File: 1AE02014.D

Date: 02-MAY-2013 18:27

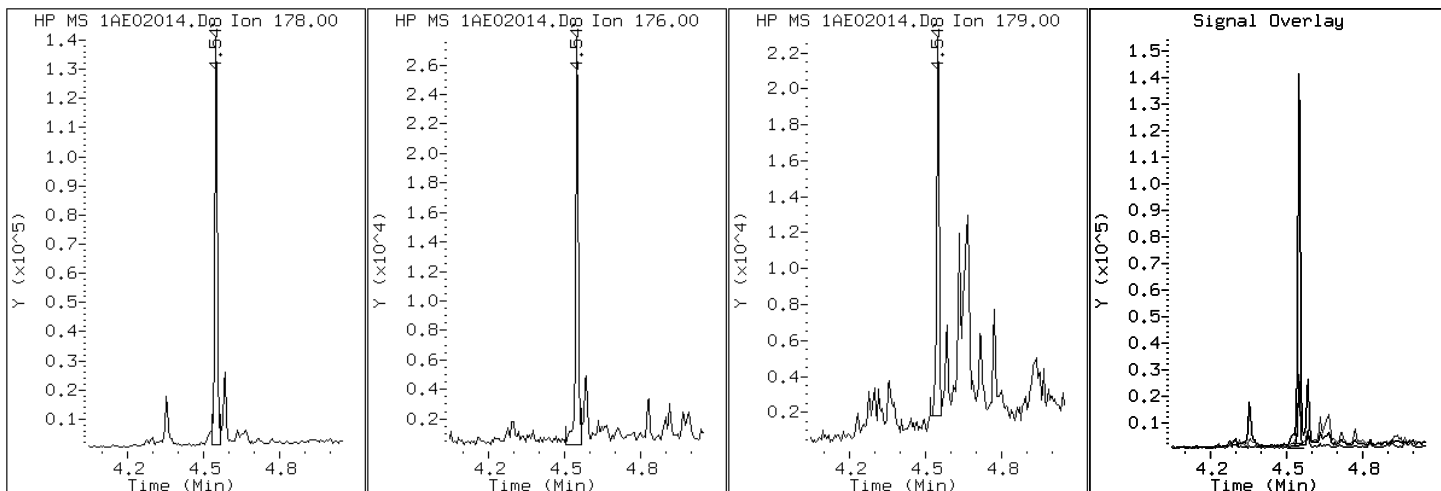
Client ID: CV0121B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-19-a

Operator: SCC

11 Phenanthrene



Data File: 1AE02014.D

Date: 02-MAY-2013 18:27

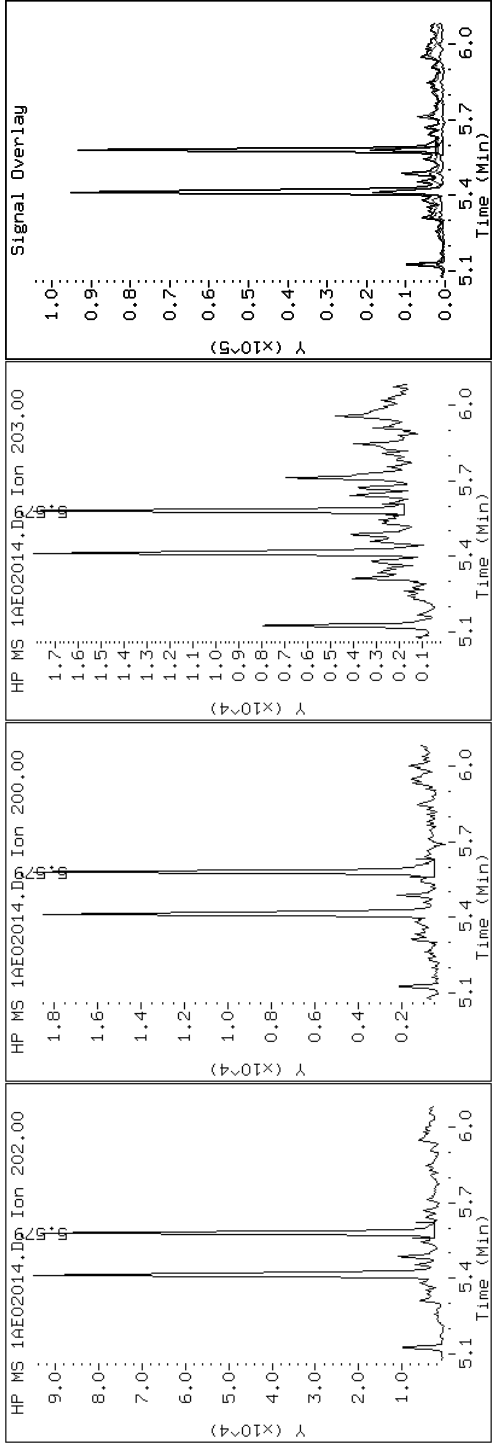
Client ID: CV0121B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-19-a

Operator: SCC

16 Pyrene

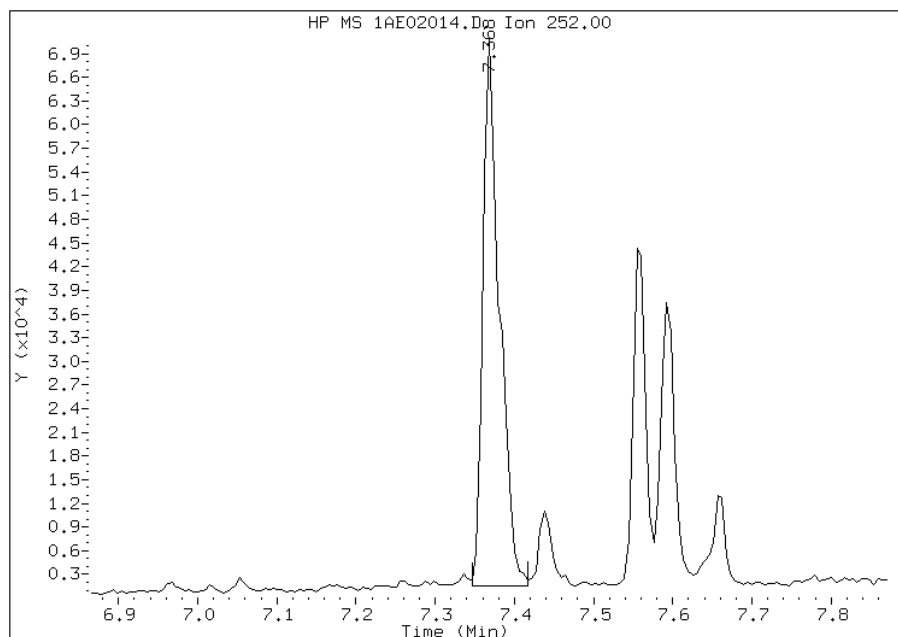


# Manual Integration Report

Data File: 1AE02014.D  
Inj. Date and Time: 02-MAY-2013 18:27  
Instrument ID: BSMA5973.i  
Client ID: CV0121B-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 05/03/2013

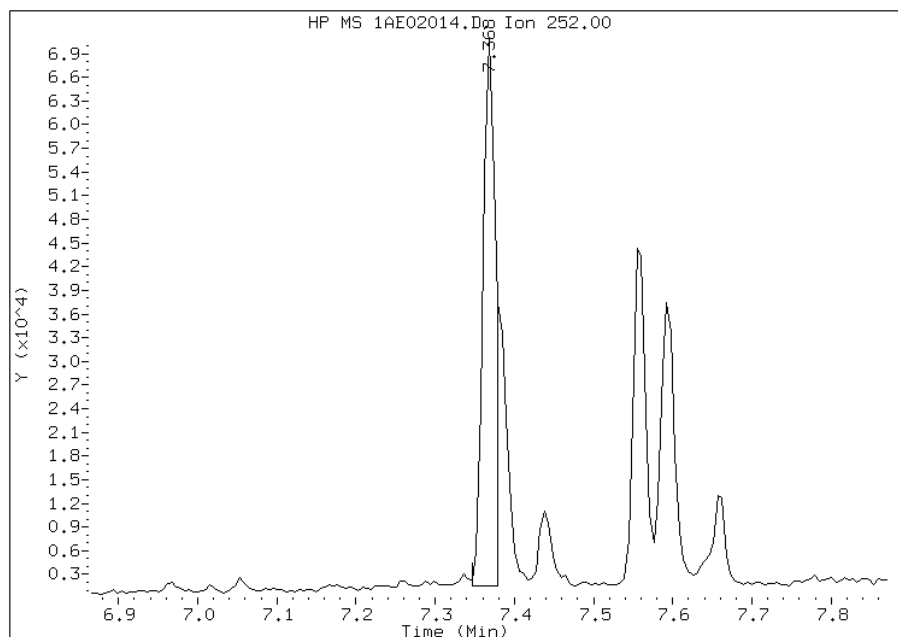
## Processing Integration Results

RT: 7.37  
Response: 98796  
Amount: 3  
Conc: 275



## Manual Integration Results

RT: 7.37  
Response: 75782  
Amount: 2  
Conc: 211



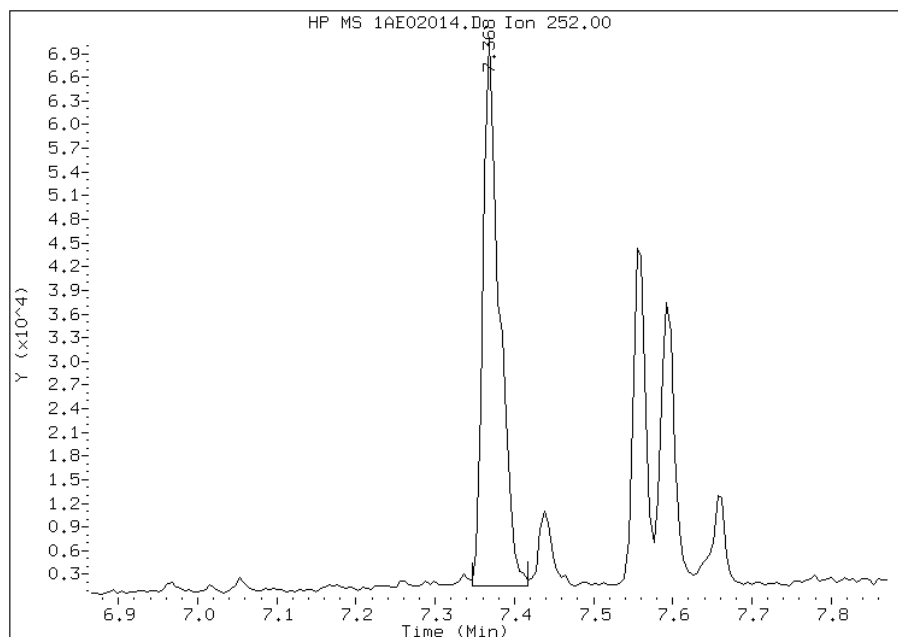
Manually Integrated By: cantins  
Modification Date: 03-May-2013 10:31  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AE02014.D  
Inj. Date and Time: 02-MAY-2013 18:27  
Instrument ID: BSMA5973.i  
Client ID: CV0121B-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 05/03/2013

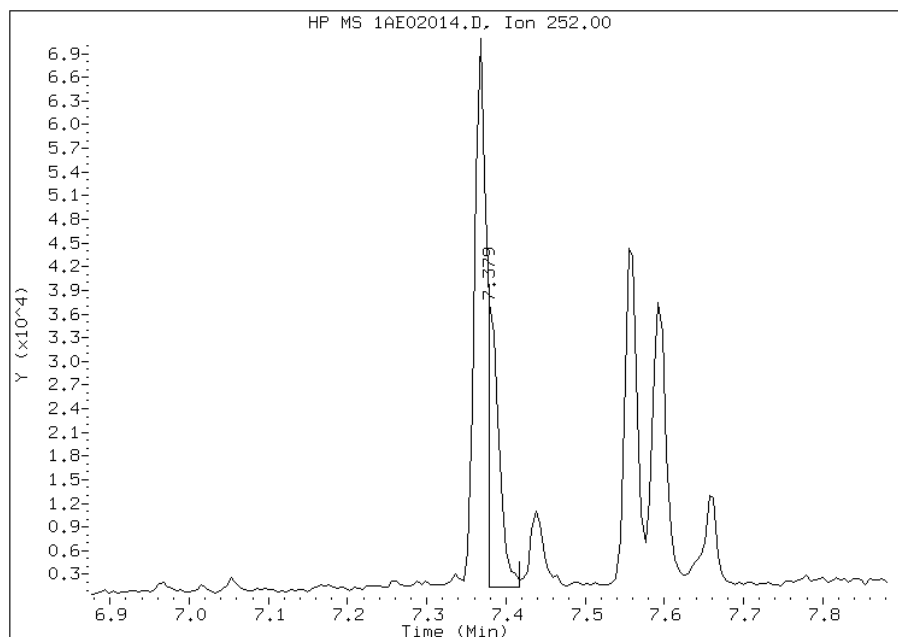
## Processing Integration Results

RT: 7.37  
Response: 98796  
Amount: 3  
Conc: 239



## Manual Integration Results

RT: 7.38  
Response: 35209  
Amount: 1  
Conc: 85



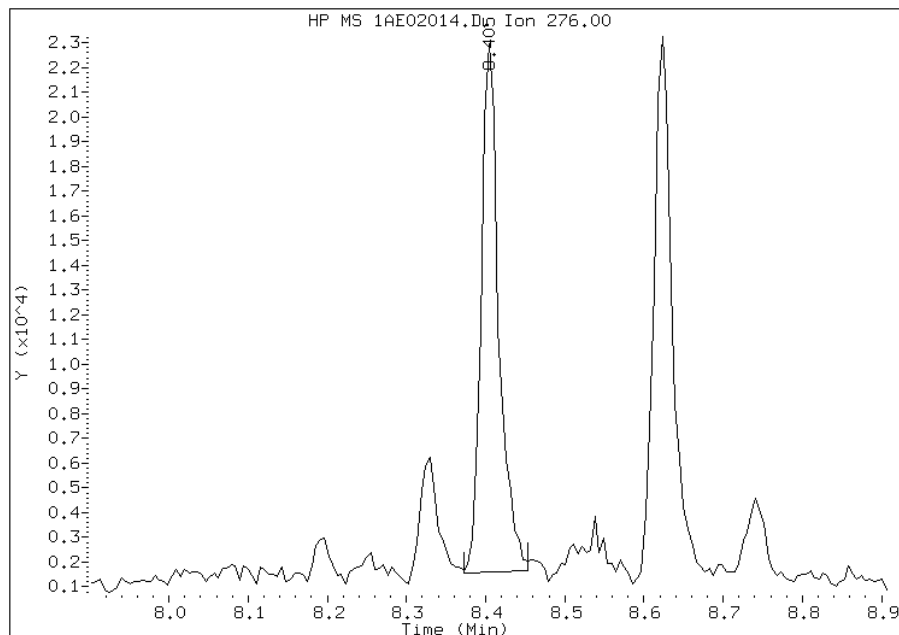
Manually Integrated By: cantins  
Modification Date: 03-May-2013 10:33  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE02014.D  
Inj. Date and Time: 02-MAY-2013 18:27  
Instrument ID: BSMA5973.i  
Client ID: CV0121B-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/03/2013

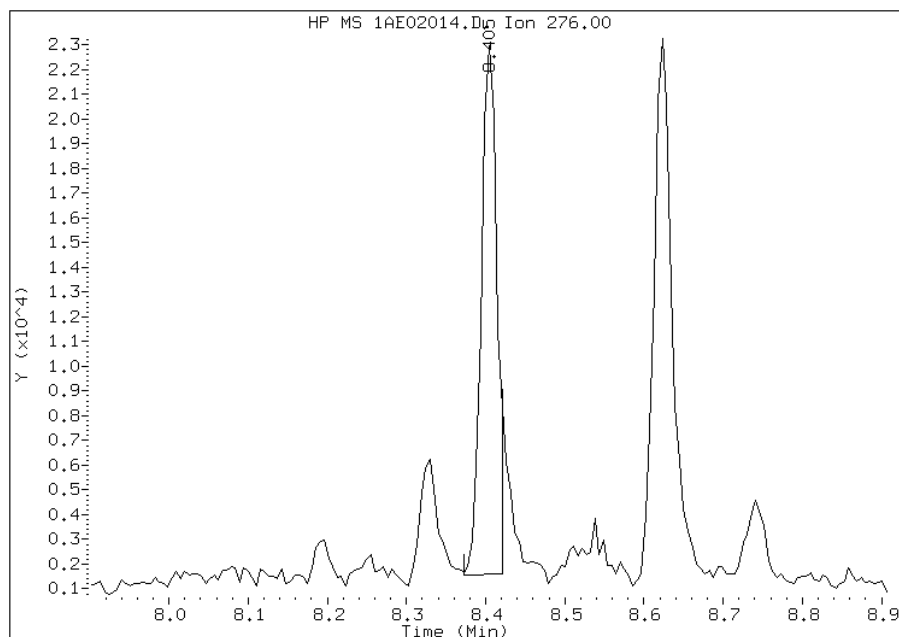
## Processing Integration Results

RT: 8.40  
Response: 32820  
Amount: 1  
Conc: 97



## Manual Integration Results

RT: 8.40  
Response: 29119  
Amount: 1  
Conc: 86



Manually Integrated By: cantins  
Modification Date: 03-May-2013 10:34  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: CV0752A-CS-SP Lab Sample ID: 680-89791-20  
 Matrix: Solid Lab File ID: 1AE02015.D  
 Analysis Method: 8270C LL Date Collected: 04/25/2013 09:00  
 Extract. Method: 3546 Date Extracted: 04/30/2013 14:42  
 Sample wt/vol: 15.02(g) Date Analyzed: 05/02/2013 18:42  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 9.3 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137070 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	6.3	J	44	5.5
120-12-7	Anthracene	11		9.3	4.6
56-55-3	Benzo[a]anthracene	40		8.8	4.3
50-32-8	Benzo[a]pyrene	31		11	5.7
205-99-2	Benzo[b]fluoranthene	54		13	6.7
191-24-2	Benzo[g,h,i]perylene	41		22	4.8
207-08-9	Benzo[k]fluoranthene	26		8.8	4.0
218-01-9	Chrysene	47		9.9	5.0
53-70-3	Dibenz(a,h)anthracene	7.1	J	22	4.5
206-44-0	Fluoranthene	42		22	4.4
86-73-7	Fluorene	22	U	22	4.5
193-39-5	Indeno[1,2,3-cd]pyrene	35		22	7.8
90-12-0	1-Methyl-naphthalene	15	J	44	4.8
91-57-6	2-Methyl-naphthalene	22	J	44	7.8
91-20-3	Naphthalene	20	J	44	4.8
85-01-8	Phenanthrene	37		8.8	4.3
129-00-0	Pyrene	48		22	4.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	42		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02015.D  
 Lab Smp Id: 680-89791-A-20-A Client Smp ID: CV0752A-CS-SP  
 Inj Date : 02-MAY-2013 18:42  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-89791-a-20-a  
 Misc Info : 680-89791-A-20-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\a-bFASTPAHi-m.m  
 Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 12  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	Weight Extracted
M	9.343	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.554	2.550	(1.000)	1233628	40.0000		
* 6 Acenaphthene-d10	164		3.585	3.581	(1.000)	685214	40.0000		
* 10 Phenanthrene-d10	188		4.536	4.532	(1.000)	1002976	40.0000		
\$ 14 o-Terphenyl	230		4.830	4.831	(1.065)	69243	4.22082	309.9728	
* 18 Chrysene-d12	240		6.556	6.551	(1.000)	733826	40.0000		
* 23 Perylene-d12	264		7.651	7.641	(1.000)	853288	40.0000		
2 Naphthalene	128		2.565	2.560	(1.004)	8275	0.26834	19.7063	
3 2-Methylnaphthalene	141		2.971	2.972	(1.163)	5346	0.30237	22.2058	
4 1-Methylnaphthalene	142		3.025	3.025	(1.184)	3955	0.20191	14.8278	
5 Acenaphthylene	152		3.495	3.490	(0.975)	3426	0.08555	6.2828(M)	
11 Phenanthrene	178		4.547	4.548	(1.002)	14766	0.50822	37.3233	
12 Anthracene	178		4.584	4.580	(1.011)	4384	0.14512	10.6572(Q)	
13 Carbazole	167		4.718	4.713	(1.040)	2517	0.08637	6.3426(Q)	
15 Fluoranthene	202		5.412	5.413	(1.193)	19223	0.57282	42.0676	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
16 Pyrene	202	5.578	5.579	(0.851)	18179	0.64934	47.6870
17 Benzo(a)anthracene	228	6.550	6.540	(0.999)	13035	0.54393	39.9454
19 Chrysene	228	6.572	6.572	(1.002)	15541	0.63922	46.9434
20 Benzo(b)fluoranthene	252	7.368	7.363	(0.963)	18904	0.72973	53.5909(M)
21 Benzo(k)fluoranthene	252	7.378	7.384	(0.964)	10590	0.35555	26.1114(QM)
22 Benzo(a)pyrene	252	7.592	7.593	(0.992)	10769	0.41787	30.6880
24 Indeno(1,2,3-cd)pyrene	276	8.404	8.405	(1.098)	11588	0.47622	34.9732(M)
25 Dibenzo(a,h)anthracene	278	8.431	8.431	(1.102)	2183	0.09642	7.0808
26 Benzo(g,h,i)perylene	276	8.623	8.624	(1.127)	15313	0.56229	41.2936

QC Flag Legend

Q - Qualifier signal failed the ratio test.  
M - Compound response manually integrated.

Data File: 1AE02015.D

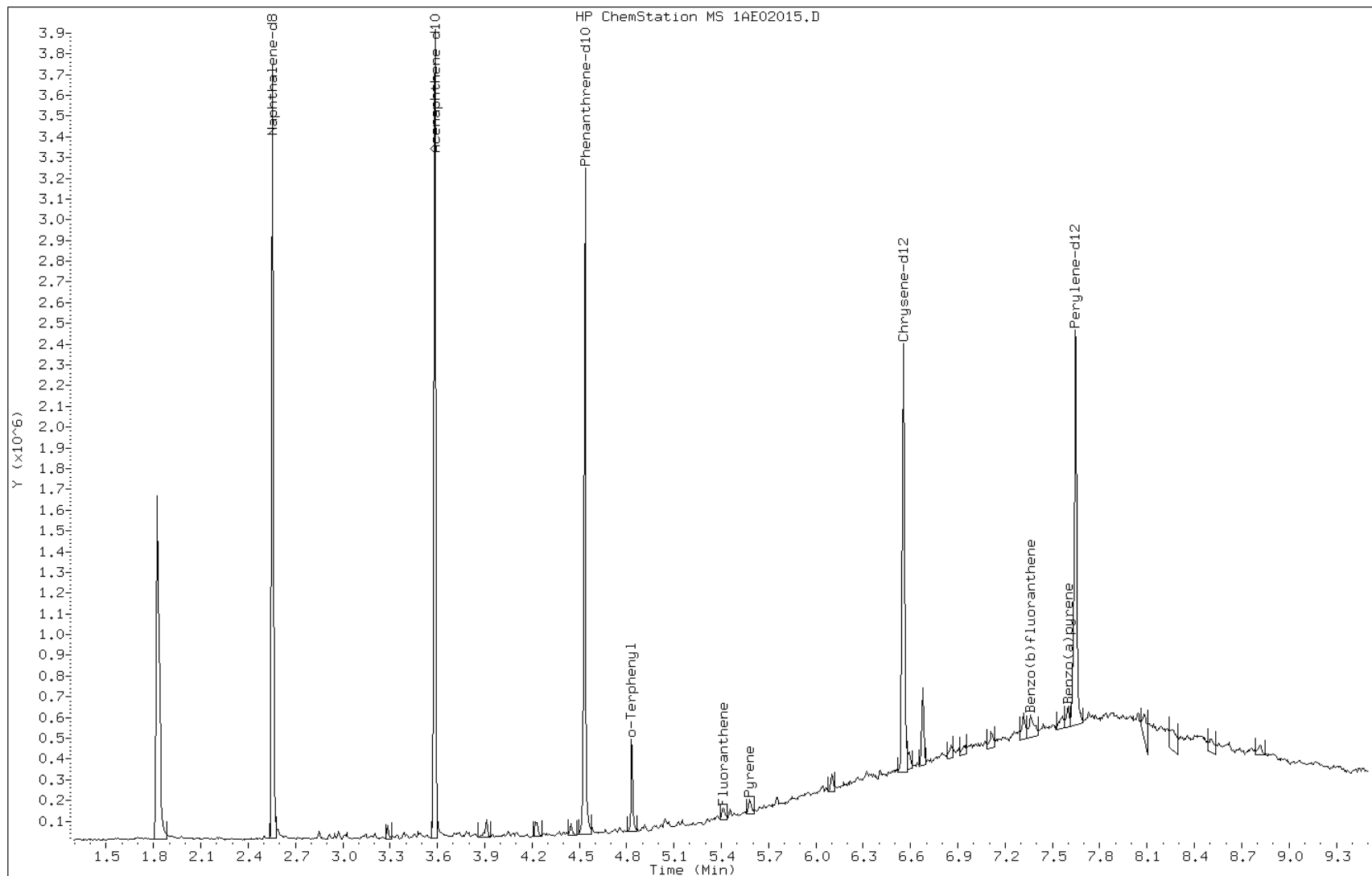
Date: 02-MAY-2013 18:42

Client ID: CV0752A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-20-a

Operator: SCC



Data File: 1AE02015.D

Date: 02-MAY-2013 18:42

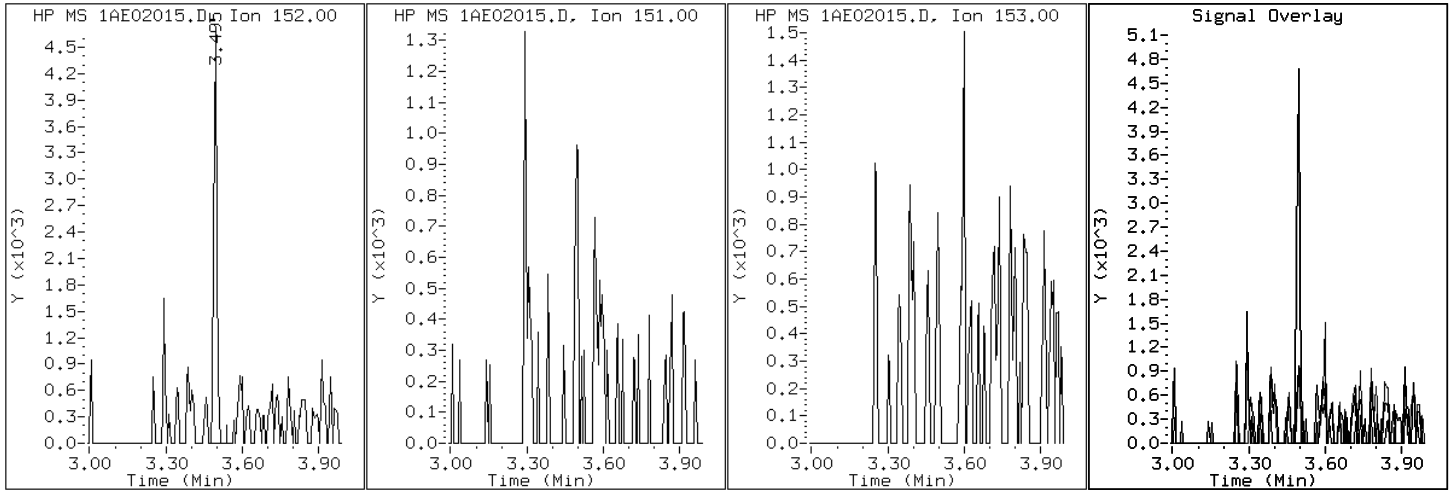
Client ID: CV0752A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-20-a

Operator: SCC

5 Acenaphthylene



Data File: 1AE02015.D

Date: 02-MAY-2013 18:42

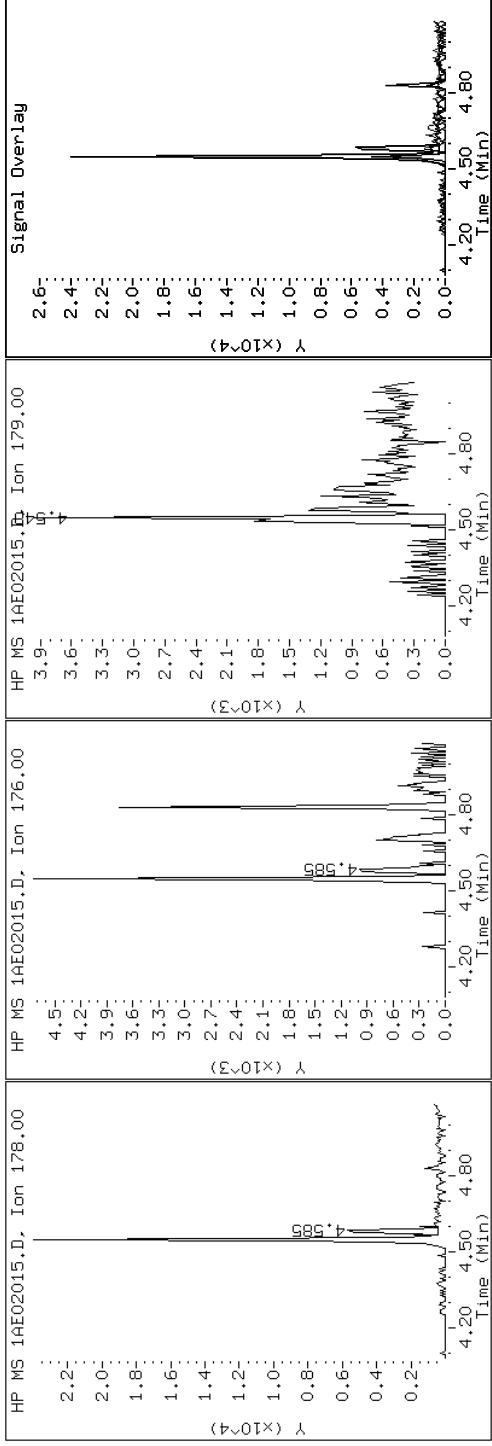
Client ID: CV0752A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-20-a

Operator: SCC

12 Anthracene



Data File: 1AE02015.D

Date: 02-MAY-2013 18:42

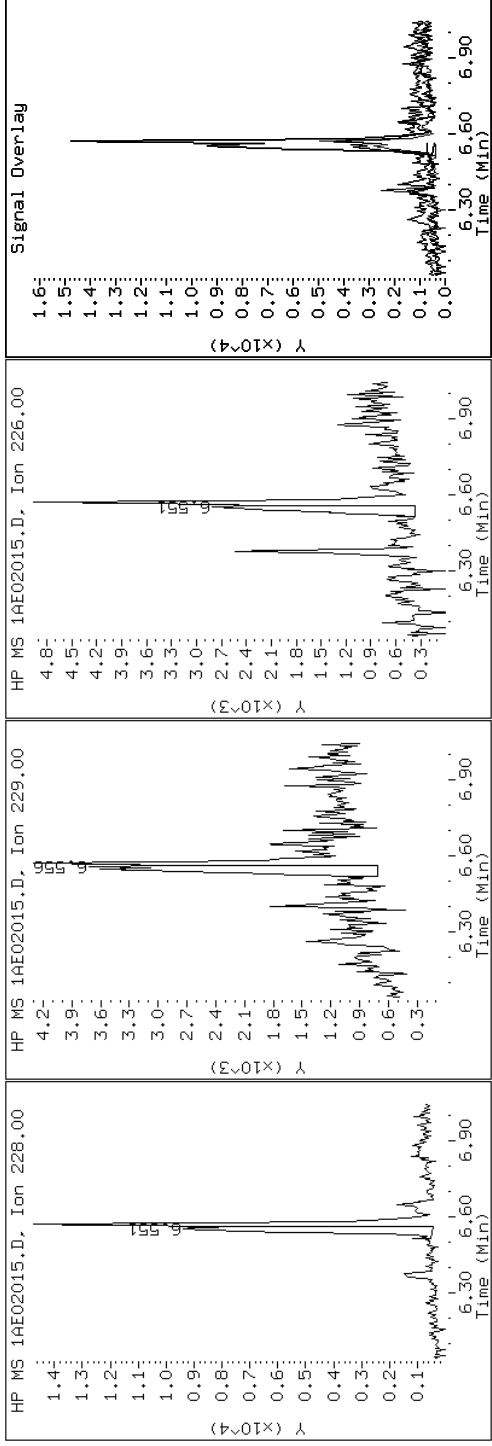
Client ID: CV0752A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-20-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AE02015.D

Date: 02-MAY-2013 18:42

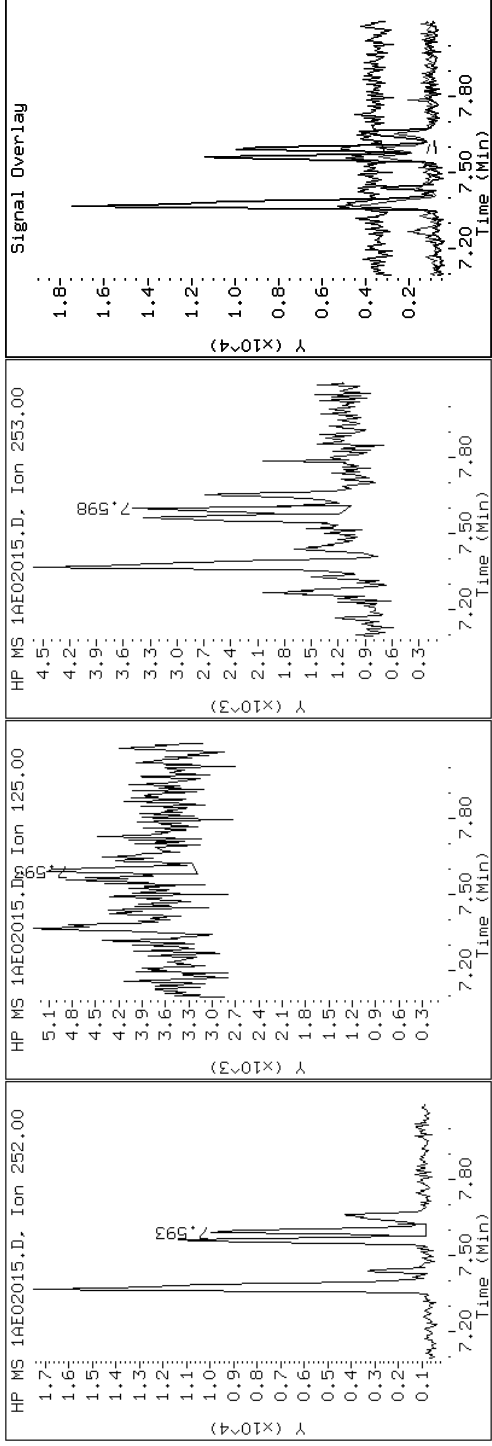
Client ID: CV0752A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-20-a

Operator: SCC

22 Benzo(a)pyrene





Data File: 1AE02015.D

Date: 02-MAY-2013 18:42

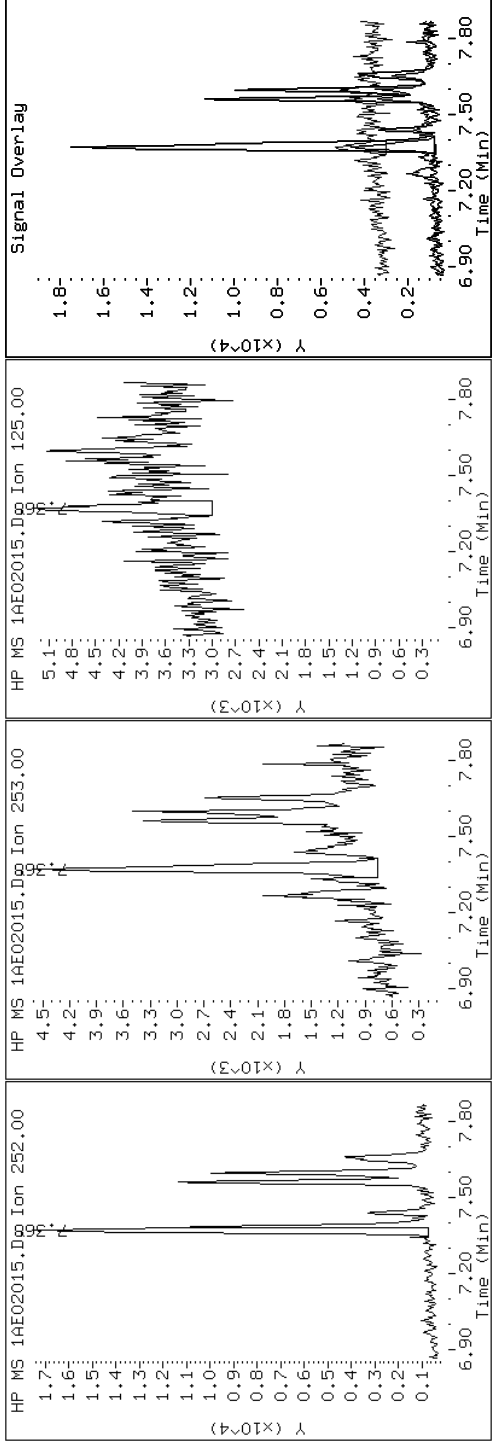
Client ID: CV0752A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-20-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AE02015.D

Date: 02-MAY-2013 18:42

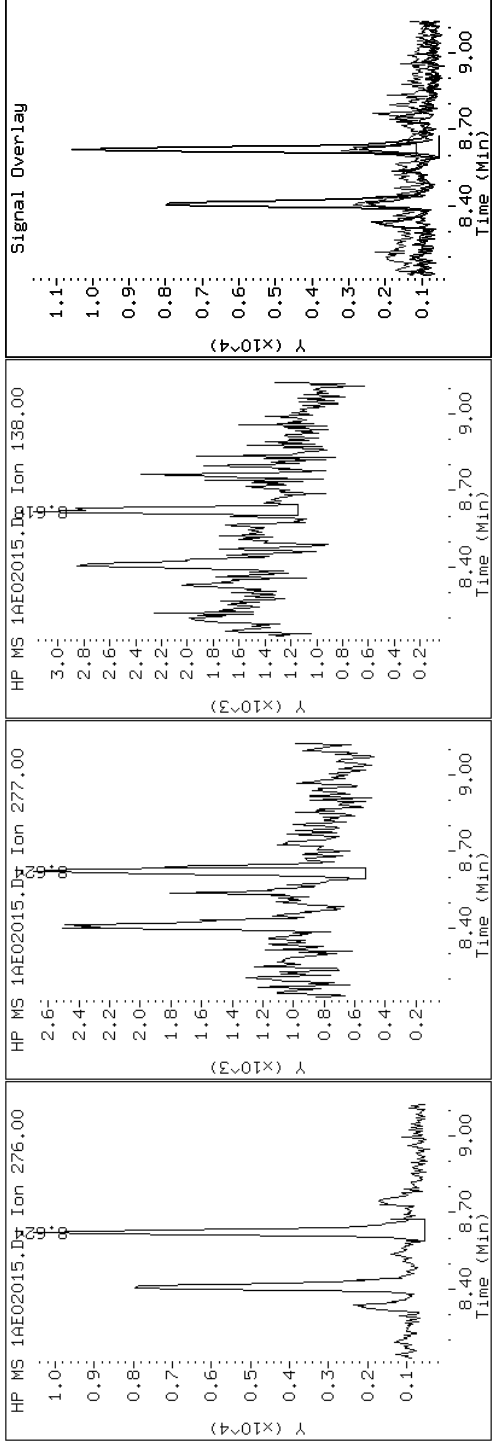
Client ID: CV0752A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-20-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AE02015.D

Date: 02-MAY-2013 18:42

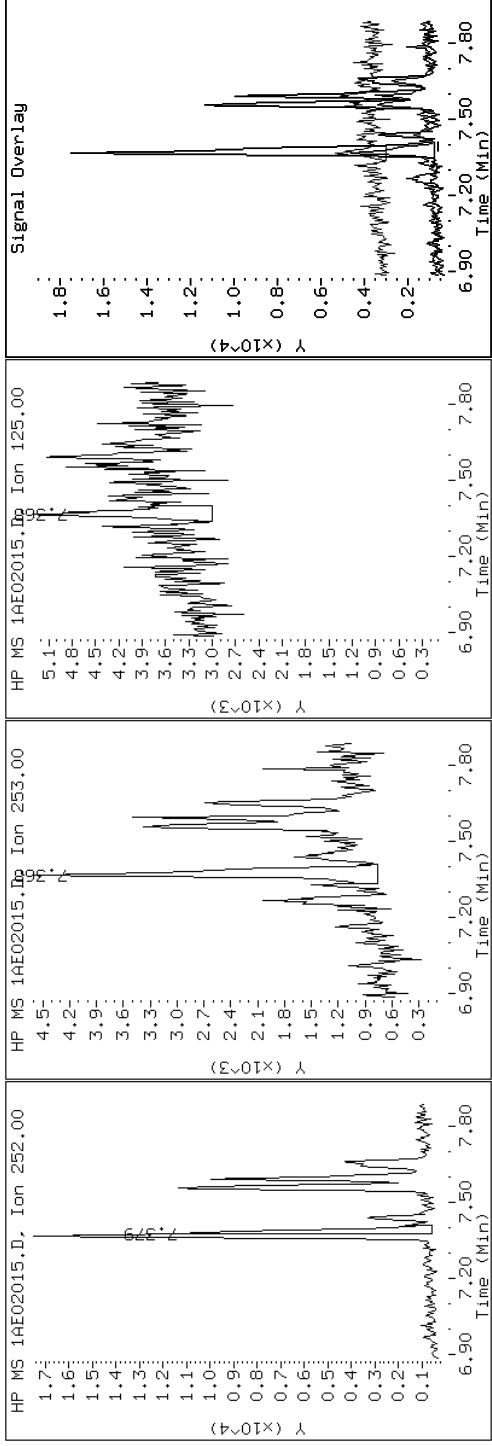
Client ID: CV0752A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-20-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AE02015.D

Date: 02-MAY-2013 18:42

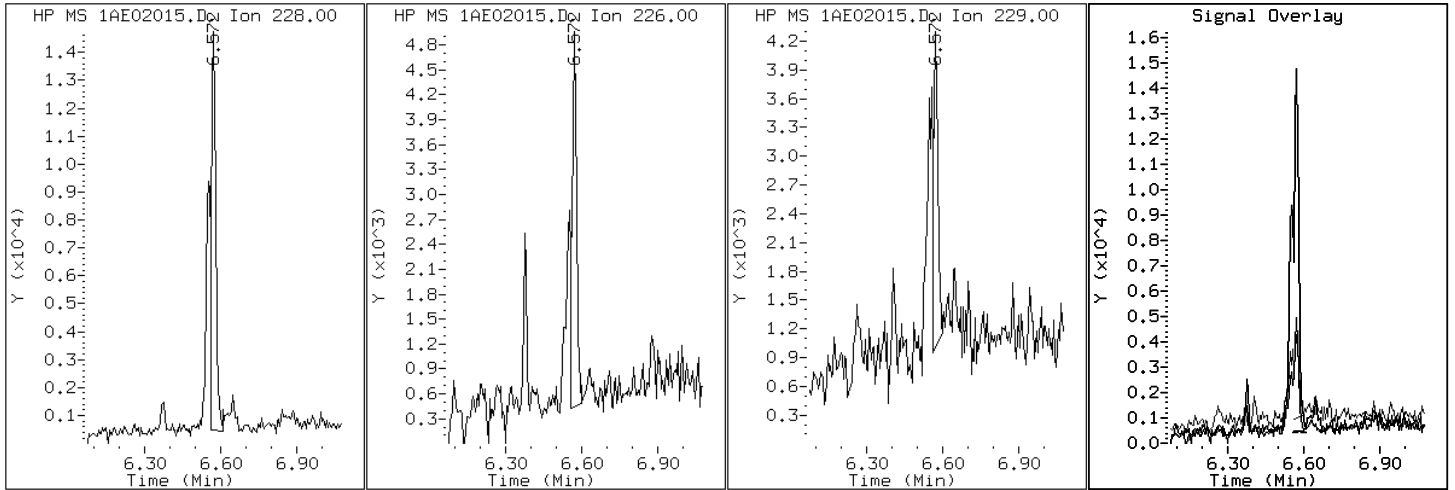
Client ID: CV0752A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-20-a

Operator: SCC

19 Chrysene



Data File: 1AE02015.D

Date: 02-MAY-2013 18:42

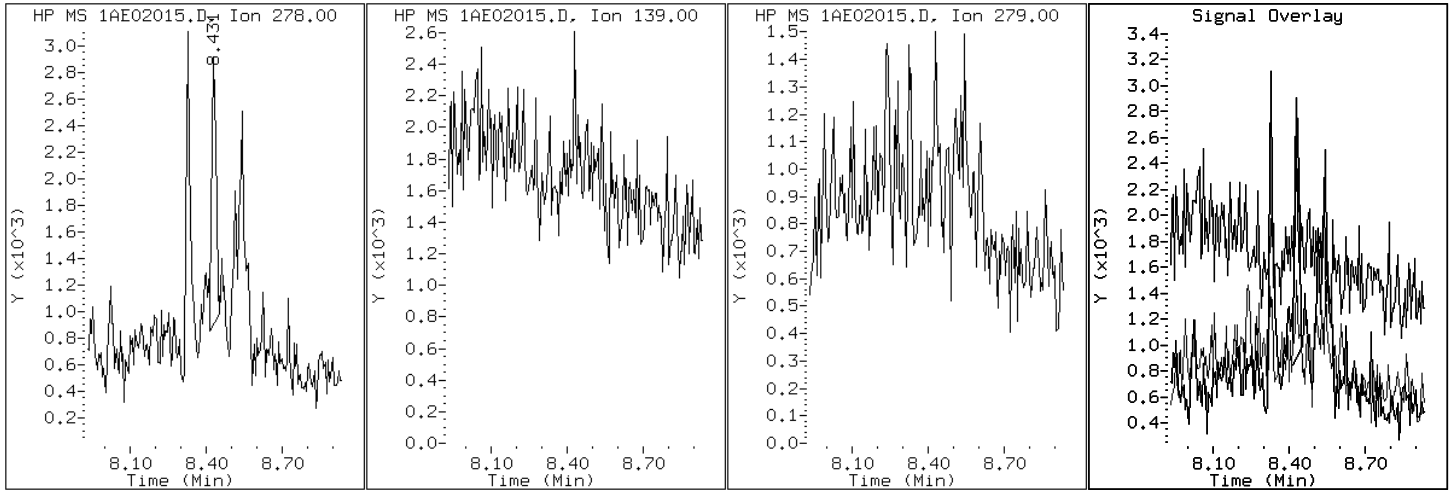
Client ID: CV0752A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-20-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AE02015.D

Date: 02-MAY-2013 18:42

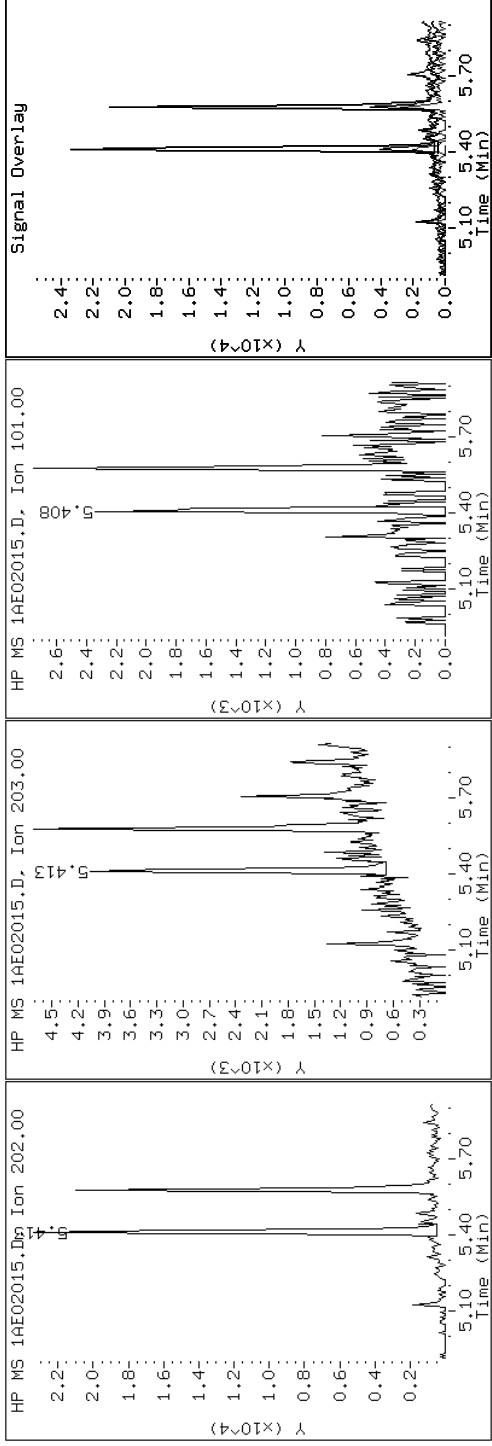
Client ID: CV0752A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-20-a

Operator: SCC

15 Fluoranthene



Data File: 1AE02015.D

Date: 02-MAY-2013 18:42

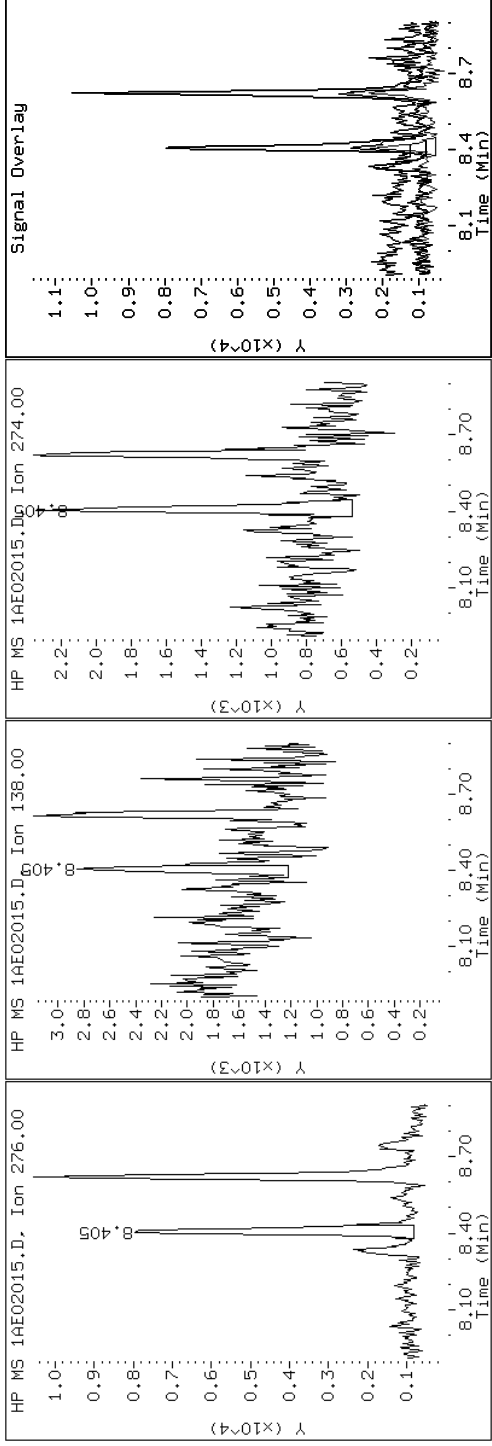
Client ID: CV0752A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-20-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene



Data File: 1AE02015.D

Date: 02-MAY-2013 18:42

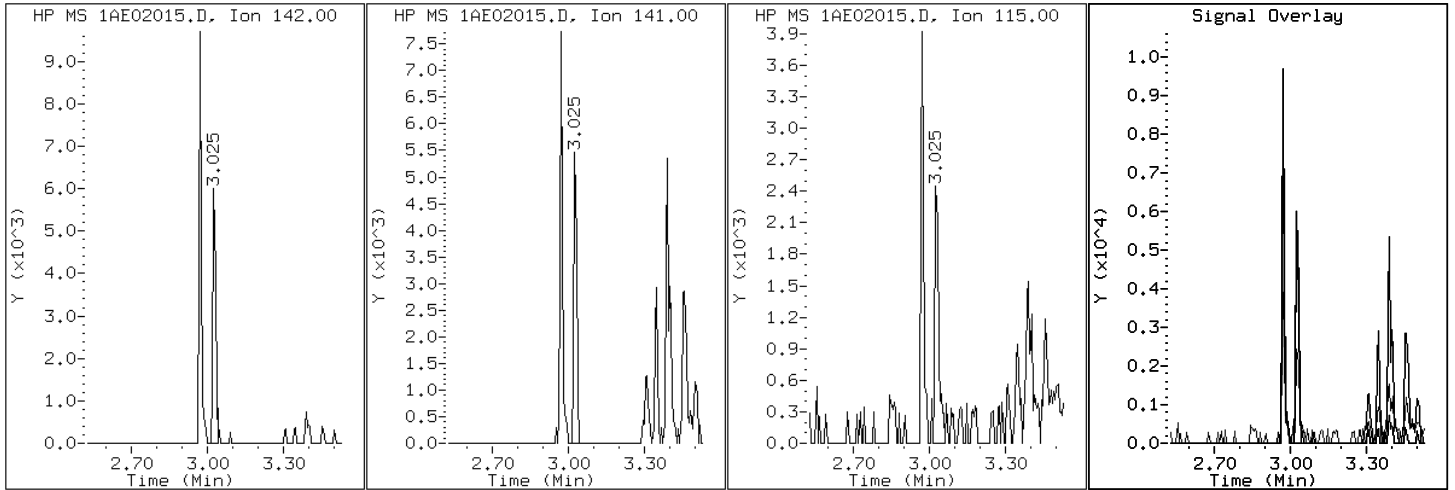
Client ID: CV0752A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-20-a

Operator: SCC

4 1-Methylnaphthalene





Data File: 1AE02015.D

Date: 02-MAY-2013 18:42

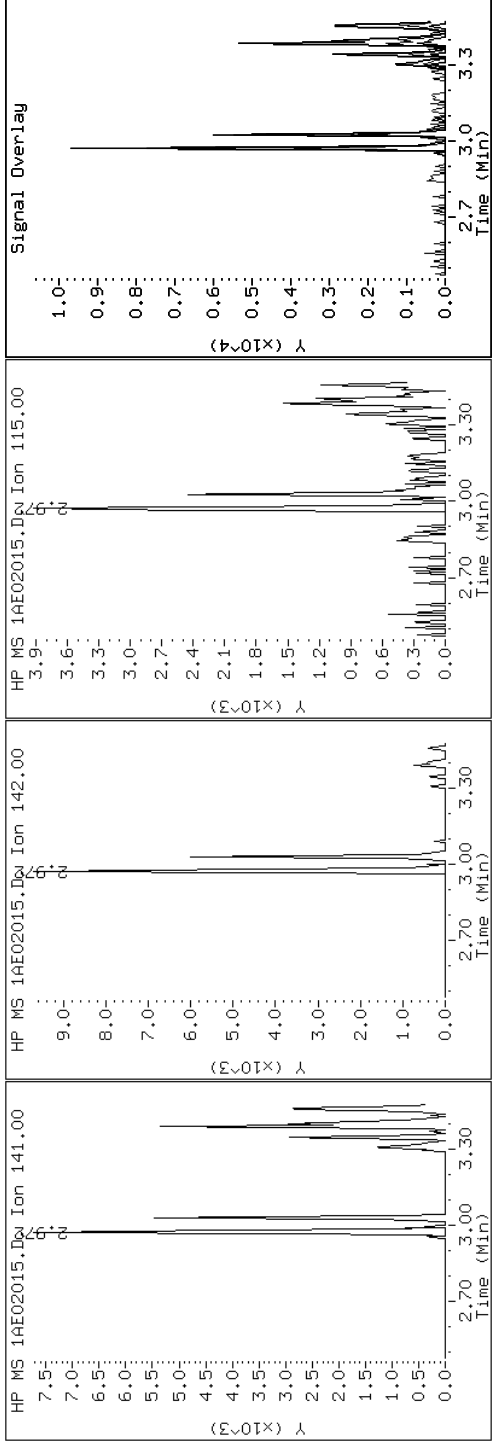
Client ID: CV0752A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-20-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1AE02015.D

Date: 02-MAY-2013 18:42

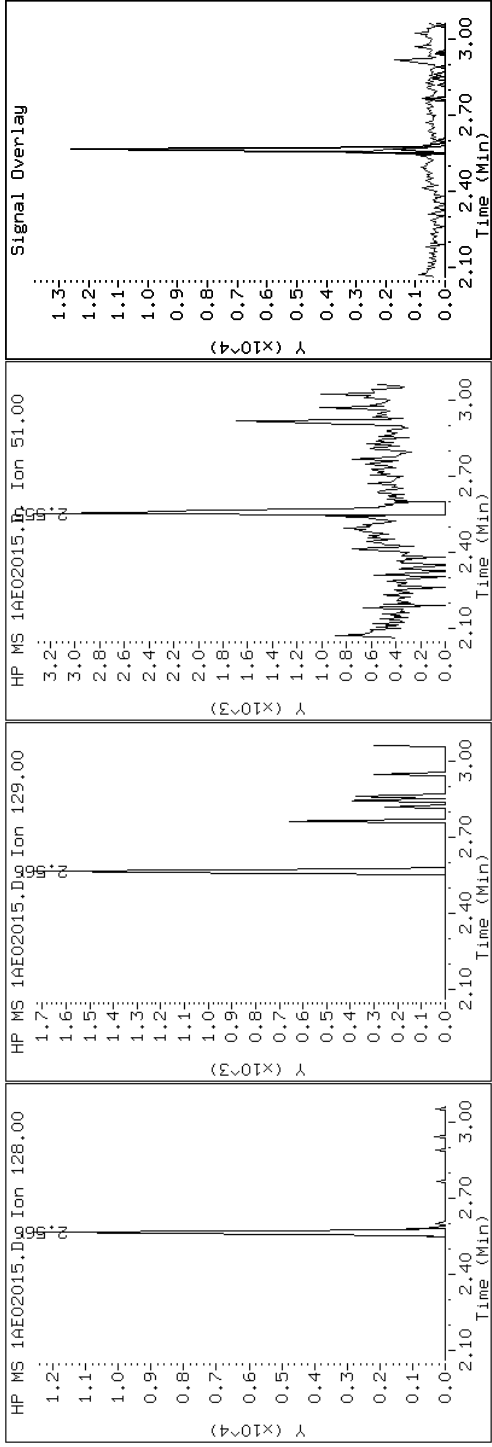
Client ID: CV0752A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-20-a

Operator: SCC

### 2 Naphthalene



Data File: 1AE02015.D

Date: 02-MAY-2013 18:42

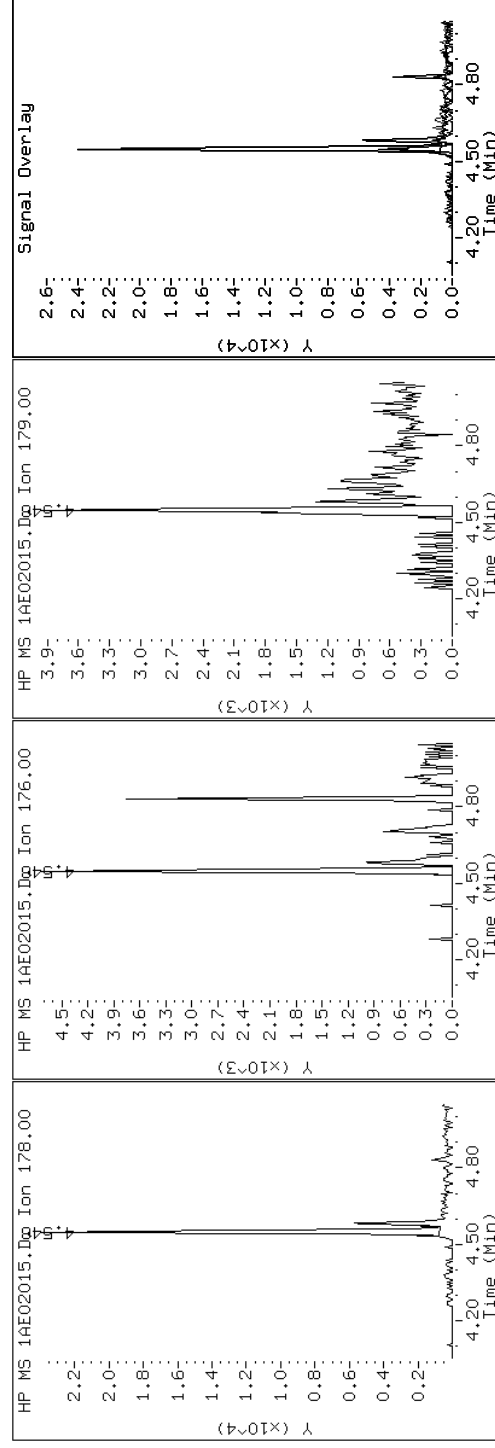
Client ID: CV0752A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-20-a

Operator: SCC

11 Phenanthrene



Data File: 1AE02015.D

Date: 02-MAY-2013 18:42

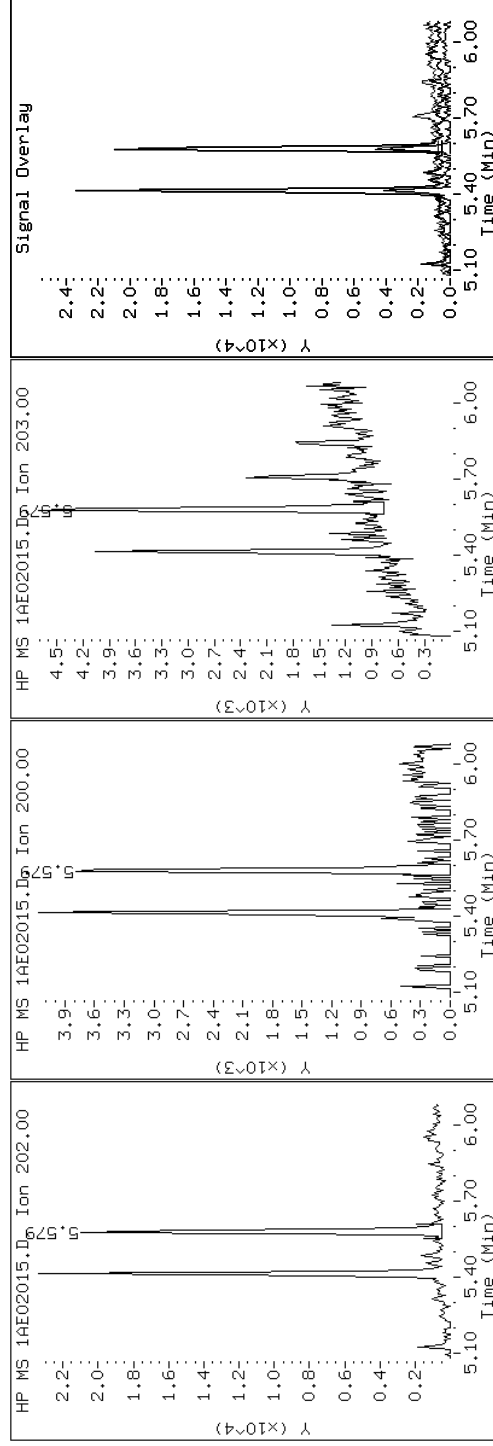
Client ID: CV0752A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-20-a

Operator: SCC

16 Pyrene



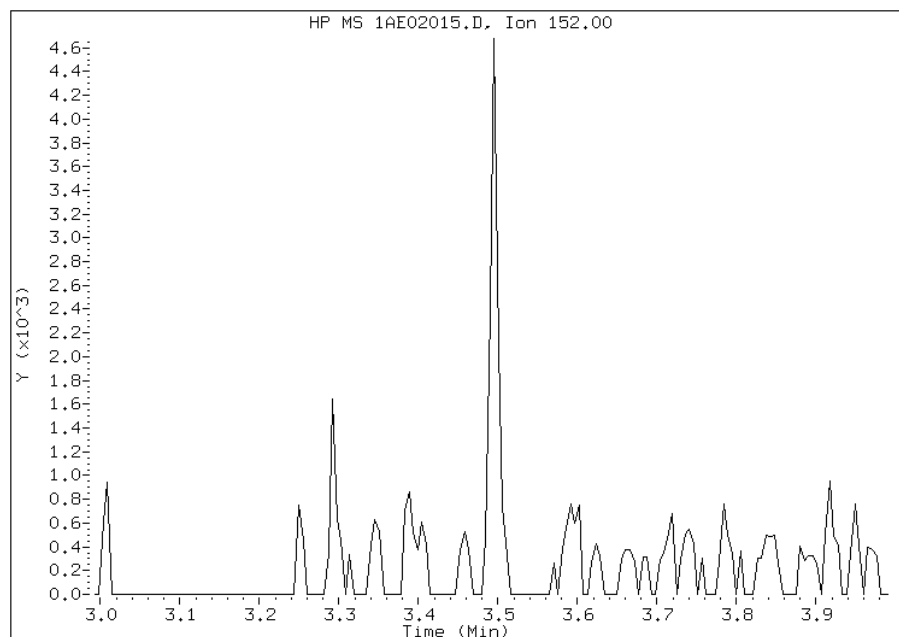
# Manual Integration Report

Data File: 1AE02015.D  
Inj. Date and Time: 02-MAY-2013 18:42  
Instrument ID: BSMA5973.i  
Client ID: CV0752A-CS-SP  
Compound: 5 Acenaphthylene  
CAS #: 208-96-8  
Report Date: 05/03/2013

## Processing Integration Results

Not Detected

Expected RT: 3.49



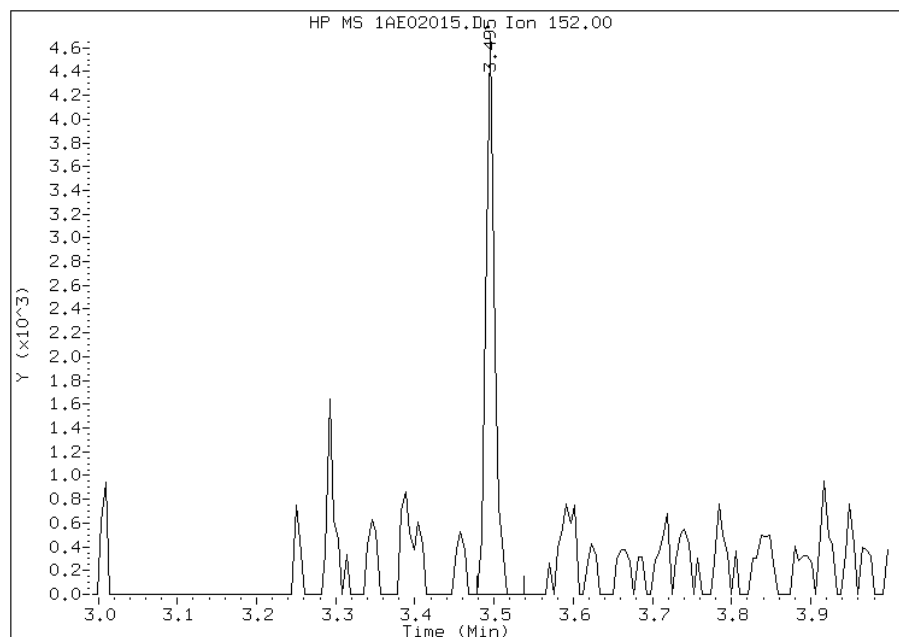
## Manual Integration Results

RT: 3.50

Response: 3426

Amount: 0

Conc: 6



Manually Integrated By: cantins

Modification Date: 03-May-2013 10:34

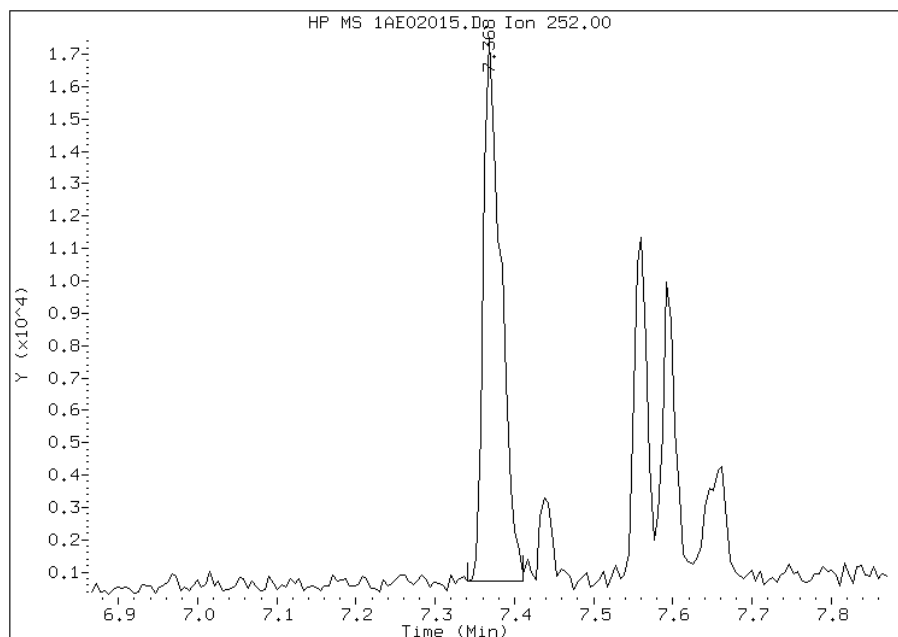
Manual Integration Reason: Analyte not Identified by the Data System

# Manual Integration Report

Data File: 1AE02015.D  
Inj. Date and Time: 02-MAY-2013 18:42  
Instrument ID: BSMA5973.i  
Client ID: CV0752A-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 05/03/2013

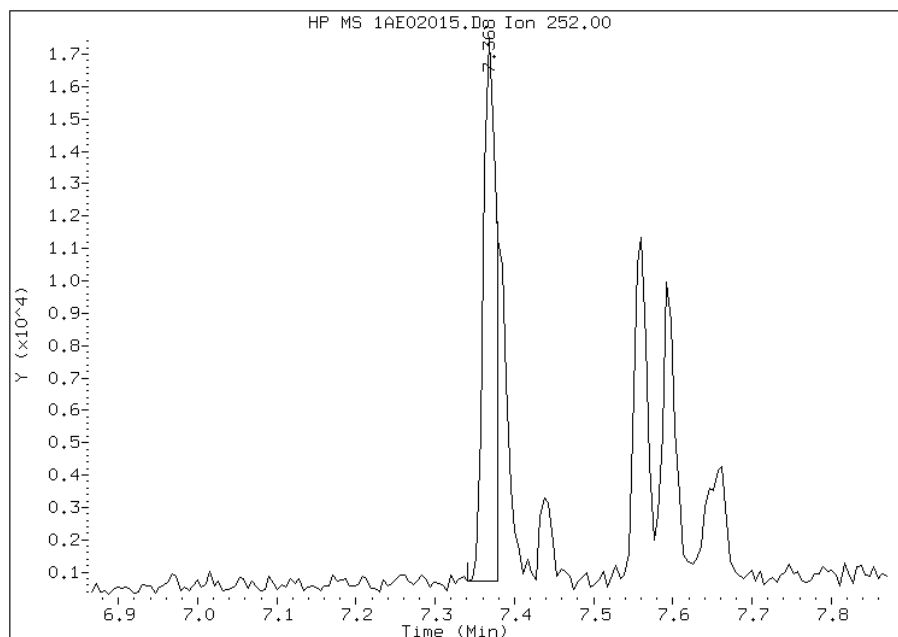
## Processing Integration Results

RT: 7.37  
Response: 25819  
Amount: 1  
Conc: 73



## Manual Integration Results

RT: 7.37  
Response: 18904  
Amount: 1  
Conc: 54



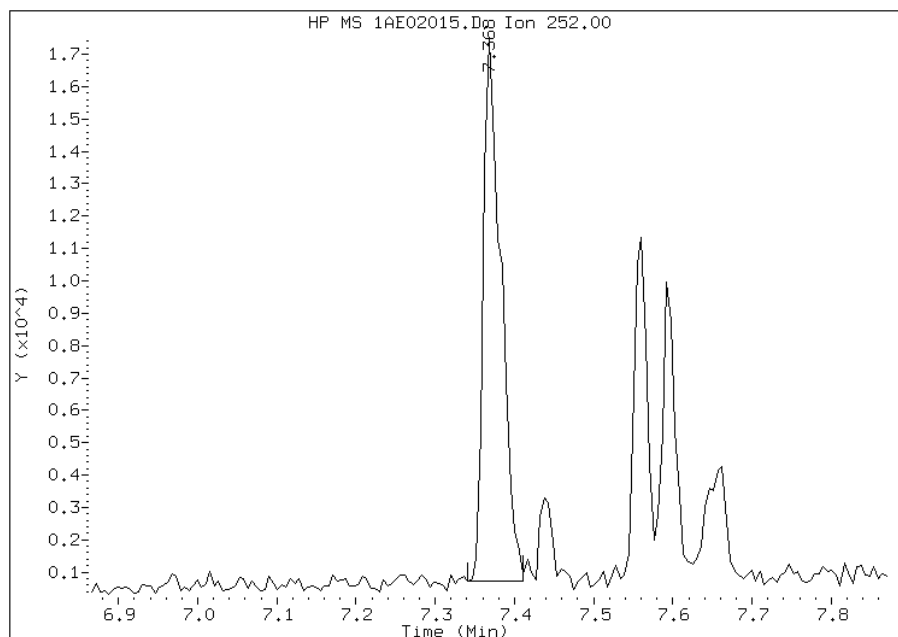
Manually Integrated By: cantins  
Modification Date: 03-May-2013 10:34  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AE02015.D  
Inj. Date and Time: 02-MAY-2013 18:42  
Instrument ID: BSMA5973.i  
Client ID: CV0752A-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 05/03/2013

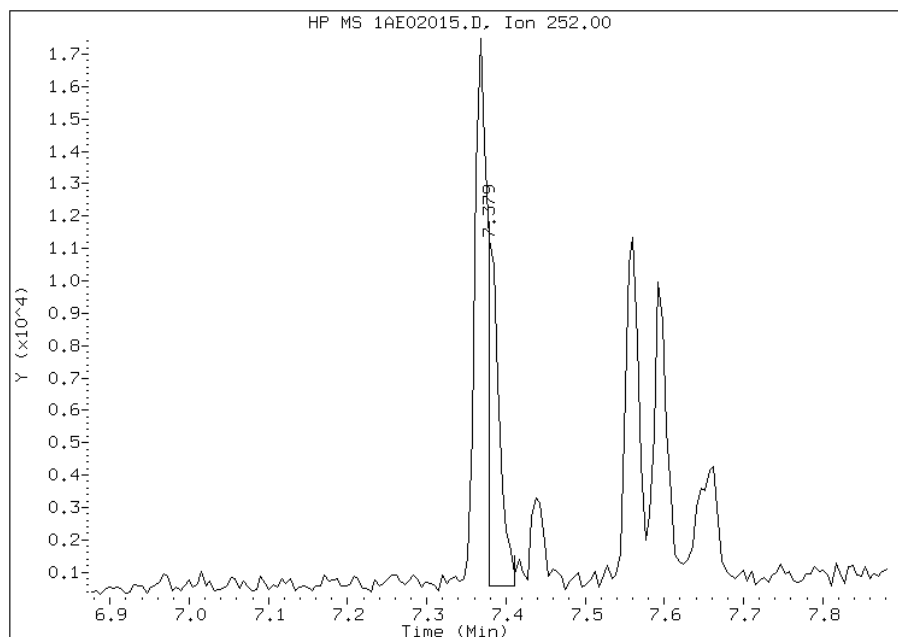
## Processing Integration Results

RT: 7.37  
Response: 25819  
Amount: 1  
Conc: 64



## Manual Integration Results

RT: 7.38  
Response: 10590  
Amount: 0  
Conc: 26



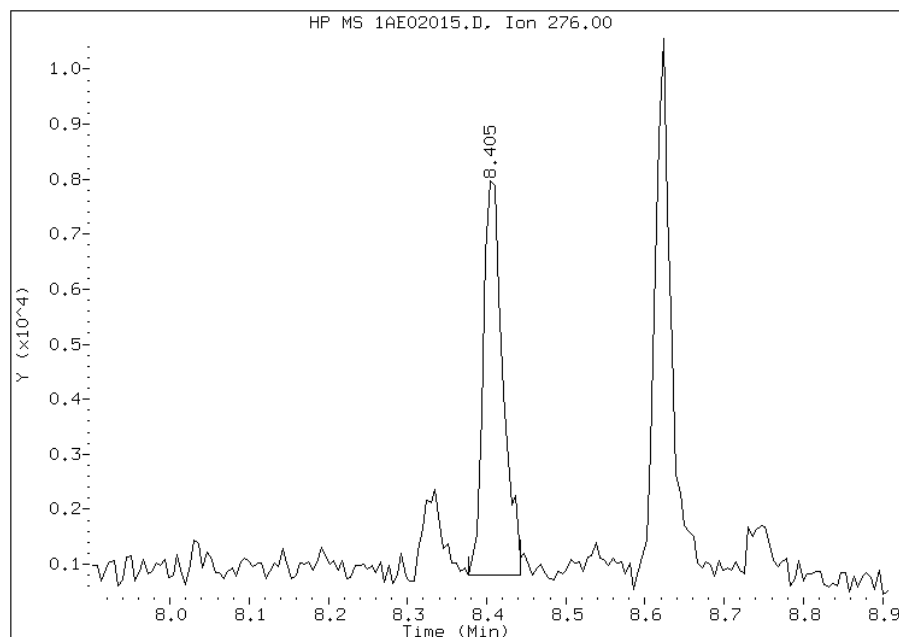
Manually Integrated By: cantins  
Modification Date: 03-May-2013 10:35  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE02015.D  
Inj. Date and Time: 02-MAY-2013 18:42  
Instrument ID: BSMA5973.i  
Client ID: CV0752A-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/03/2013

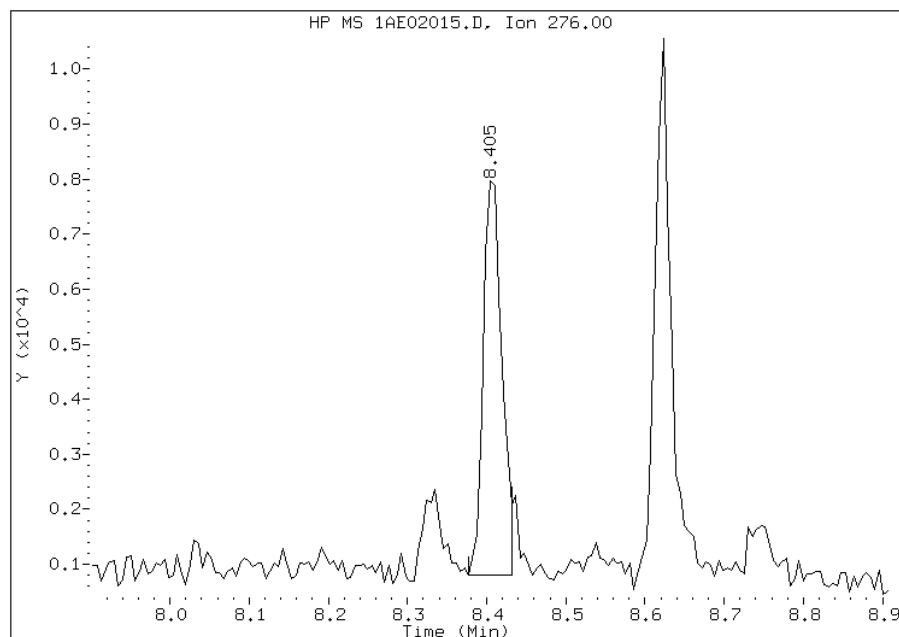
## Processing Integration Results

RT: 8.40  
Response: 12147  
Amount: 0  
Conc: 37



## Manual Integration Results

RT: 8.40  
Response: 11588  
Amount: 0  
Conc: 35



Manually Integrated By: cantins  
Modification Date: 03-May-2013 10:35  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: CV0752B-CS-SP Lab Sample ID: 680-89791-21  
 Matrix: Solid Lab File ID: 1AE02016.D  
 Analysis Method: 8270C LL Date Collected: 04/25/2013 09:13  
 Extract. Method: 3546 Date Extracted: 04/30/2013 14:42  
 Sample wt/vol: 15.01(g) Date Analyzed: 05/02/2013 18:57  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 19.2 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137070 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	99
208-96-8	Acenaphthylene	110	J	200	25
120-12-7	Anthracene	160		42	21
56-55-3	Benzo[a]anthracene	430		40	19
50-32-8	Benzo[a]pyrene	410		51	26
205-99-2	Benzo[b]fluoranthene	710		60	30
191-24-2	Benzo[g,h,i]perylene	370		99	22
207-08-9	Benzo[k]fluoranthene	360		40	18
218-01-9	Chrysene	520		45	22
53-70-3	Dibenz(a,h)anthracene	140		99	20
206-44-0	Fluoranthene	450		99	20
86-73-7	Fluorene	43	J	99	20
193-39-5	Indeno[1,2,3-cd]pyrene	360		99	35
90-12-0	1-Methylnaphthalene	240		200	22
91-57-6	2-Methylnaphthalene	240		200	35
91-20-3	Naphthalene	260		200	22
85-01-8	Phenanthrene	510		40	19
129-00-0	Pyrene	480		99	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	61		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02016.D  
 Lab Smp Id: 680-89791-A-21-A Client Smp ID: CV0752B-CS-SP  
 Inj Date : 02-MAY-2013 18:57  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-89791-a-21-a  
 Misc Info : 680-89791-A-21-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\a-bFASTPAHi-m.m  
 Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 13  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.010	Weight Extracted
M	19.194	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.557	2.550	(1.000)	1206332	40.0000		
* 6 Acenaphthene-d10	164		3.583	3.581	(1.000)	634110	40.0000		
* 10 Phenanthrene-d10	188		4.533	4.532	(1.000)	913300	40.0000		
\$ 14 o-Terphenyl	230		4.833	4.831	(1.066)	22706	1.51998	501.2751	
* 18 Chrysene-d12	240		6.558	6.551	(1.000)	744933	40.0000		
* 23 Perylene-d12	264		7.653	7.641	(1.000)	886251	40.0000		
2 Naphthalene	128		2.568	2.560	(1.004)	23977	0.79510	262.2170	
3 2-Methylnaphthalene	141		2.974	2.972	(1.163)	12692	0.73411	242.1015	
4 1-Methylnaphthalene	142		3.027	3.025	(1.184)	13785	0.71966	237.3377	
5 Acenaphthylene	152		3.497	3.490	(0.976)	12541	0.33841	111.6025	
9 Fluorene	166		3.914	3.912	(1.092)	3078	0.13164	43.4122(Q)	
11 Phenanthrene	178		4.549	4.548	(1.004)	40572	1.53354	505.7452	
12 Anthracene	178		4.582	4.580	(1.011)	13064	0.47490	156.6166	
13 Carbazole	167		4.715	4.713	(1.040)	5456	0.20559	67.8026(Q)	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.415	5.413	(1.194)	41787	1.36747	450.9788
16 Pyrene	202	5.580	5.579	(0.851)	41229	1.45072	478.4321
17 Benzo(a)anthracene	228	6.553	6.540	(0.999)	31367	1.28937	425.2222
19 Chrysene	228	6.574	6.572	(1.002)	38782	1.57136	518.2180
20 Benzo(b)fluoranthene	252	7.370	7.363	(0.963)	57678	2.14368	706.9644(M)
21 Benzo(k)fluoranthene	252	7.381	7.384	(0.964)	33985	1.09859	362.3031(M)
22 Benzo(a)pyrene	252	7.600	7.593	(0.993)	33080	1.23587	407.5770
24 Indeno(1,2,3-cd)pyrene	276	8.412	8.405	(1.099)	27712	1.09650	361.6135(M)
25 Dibenzo(a,h)anthracene	278	8.433	8.431	(1.102)	10027	0.42640	140.6224
26 Benzo(g,h,i)perylene	276	8.631	8.624	(1.128)	32029	1.13234	373.4358

QC Flag Legend

Q - Qualifier signal failed the ratio test.  
 M - Compound response manually integrated.

Data File: 1AE02016.D

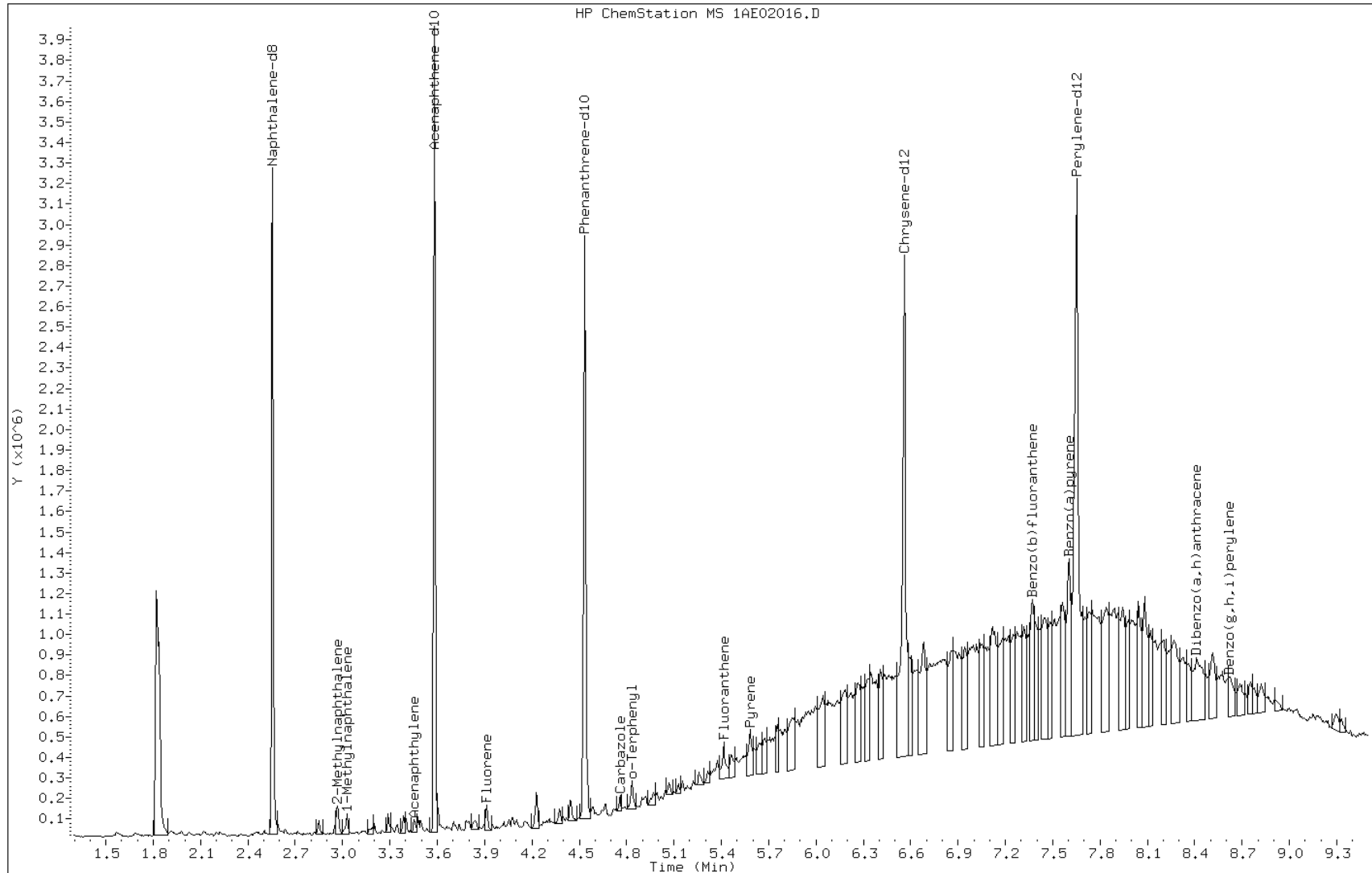
Date: 02-MAY-2013 18:57

Client ID: CV0752B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-21-a

Operator: SCC



Data File: 1AE02016.D

Date: 02-MAY-2013 18:57

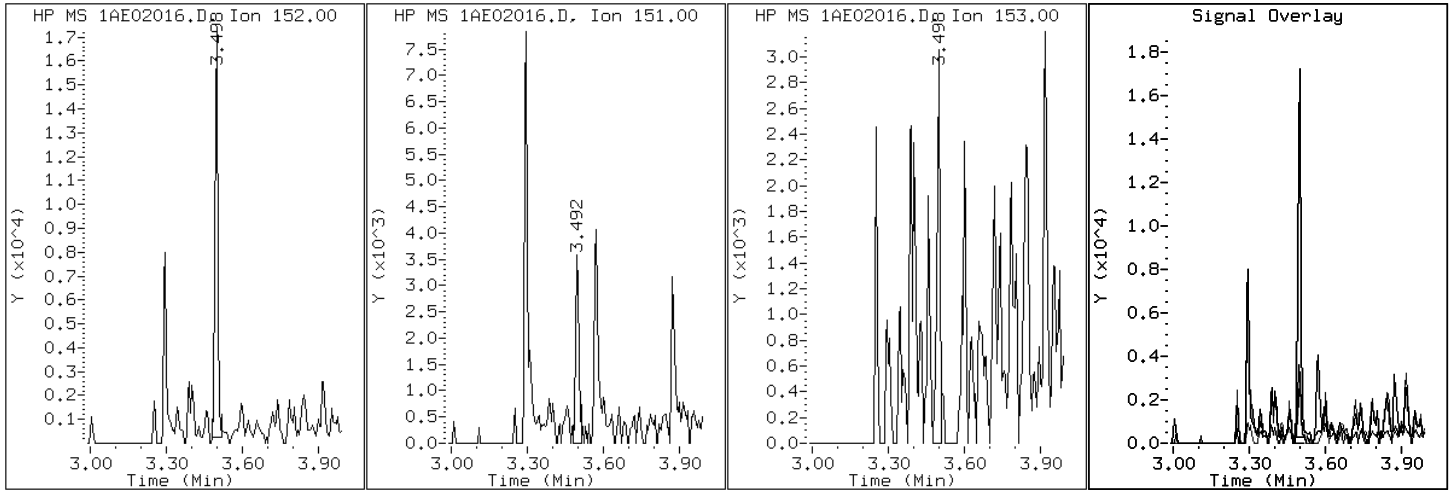
Client ID: CV0752B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-21-a

Operator: SCC

5 Acenaphthylene



Data File: 1AE02016.D

Date: 02-MAY-2013 18:57

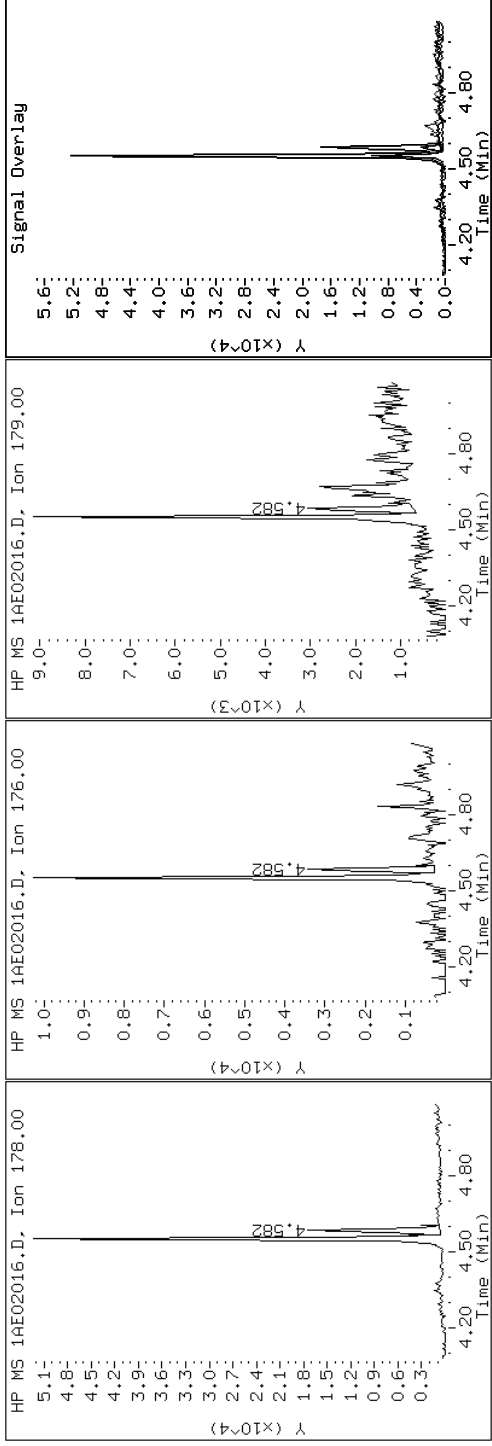
Client ID: CV0752B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-21-a

Operator: SCC

12 Anthracene



Data File: 1AE02016.D

Date: 02-MAY-2013 18:57

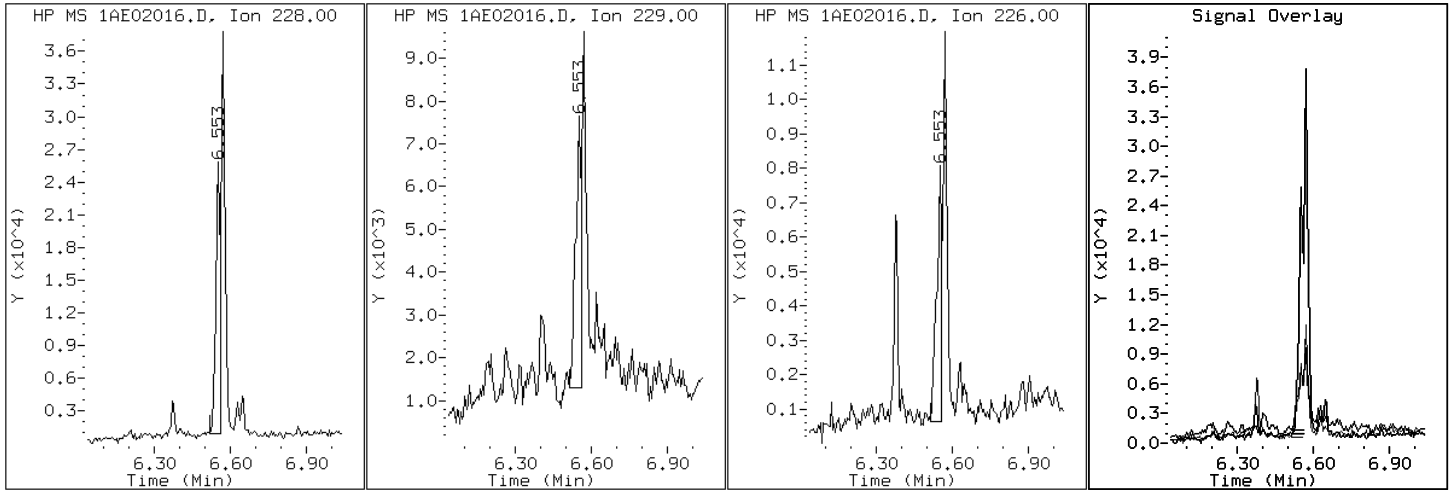
Client ID: CV0752B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-21-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AE02016.D

Date: 02-MAY-2013 18:57

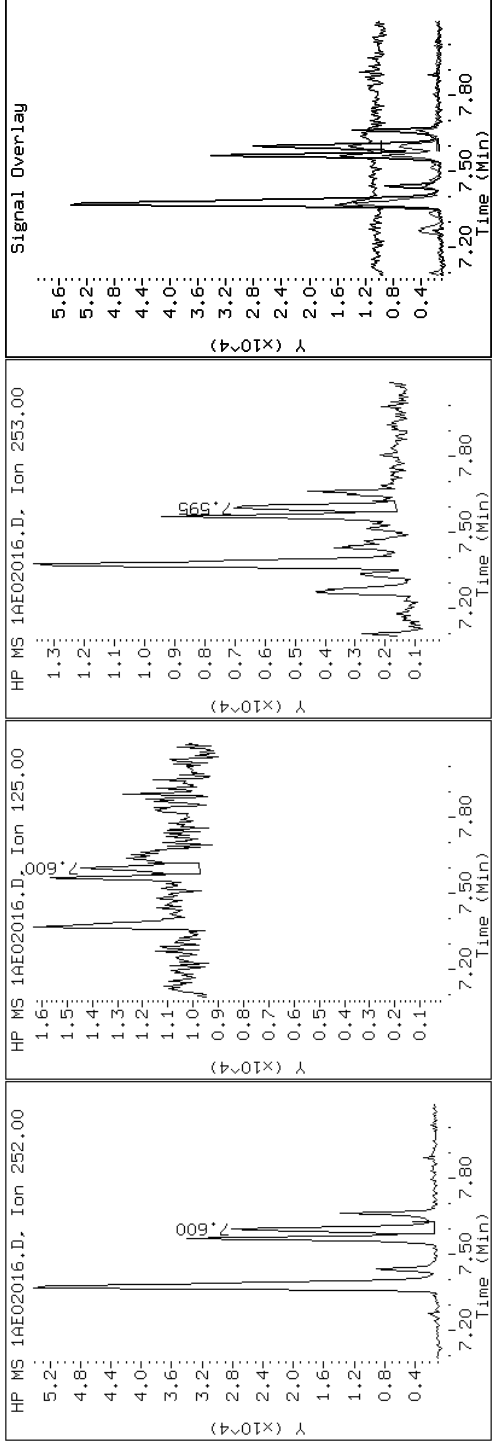
Client ID: CV0752B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-21-a

Operator: SCC

22 Benzo(a)pyrene





Data File: 1AE02016.D

Date: 02-MAY-2013 18:57

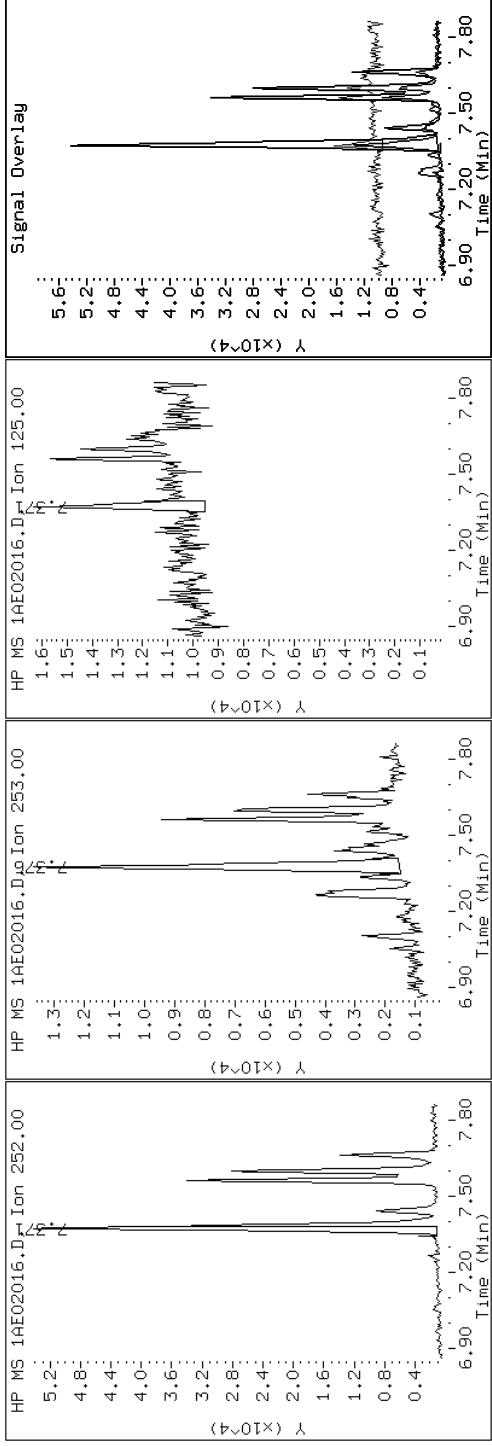
Client ID: CV0752B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-21-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AE02016.D

Date: 02-MAY-2013 18:57

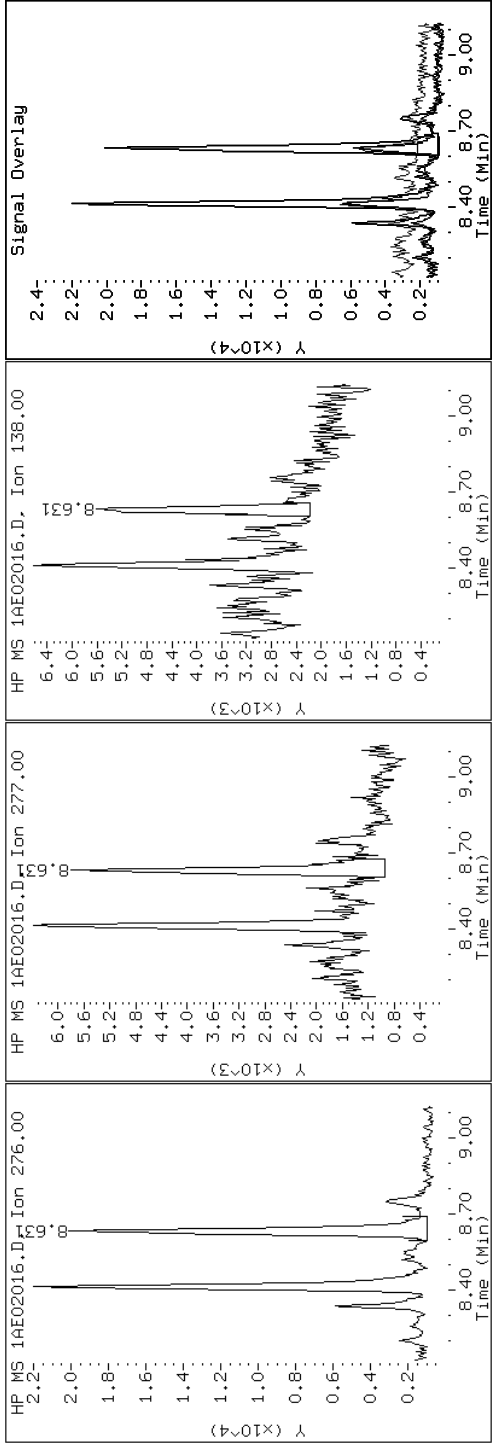
Client ID: CV0752B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-21-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AE02016.D

Date: 02-MAY-2013 18:57

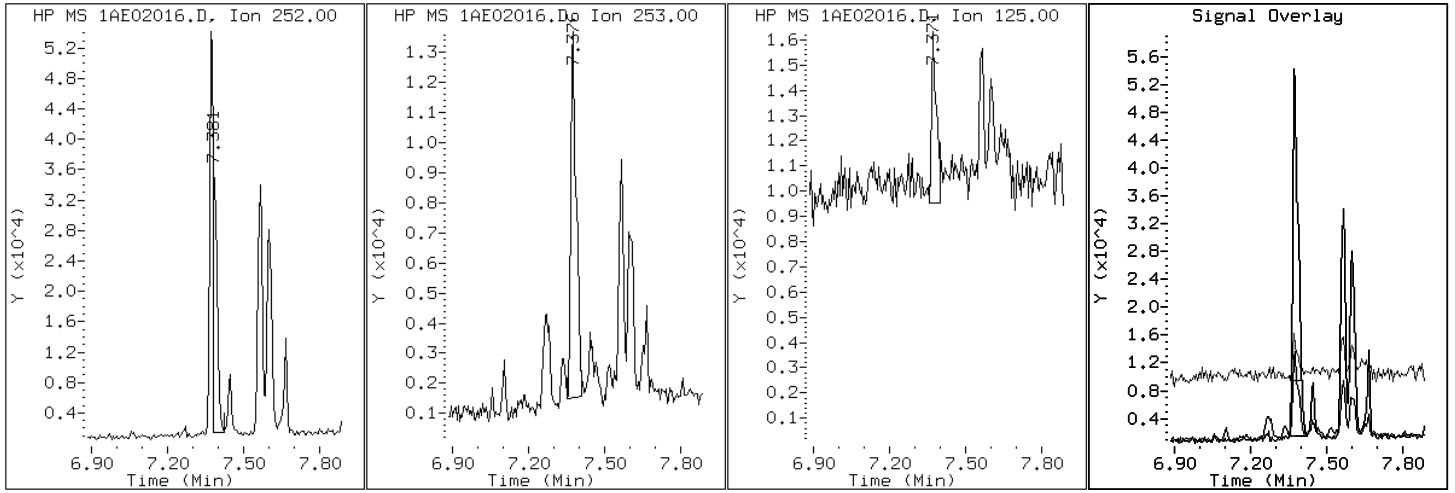
Client ID: CV0752B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-21-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AE02016.D

Date: 02-MAY-2013 18:57

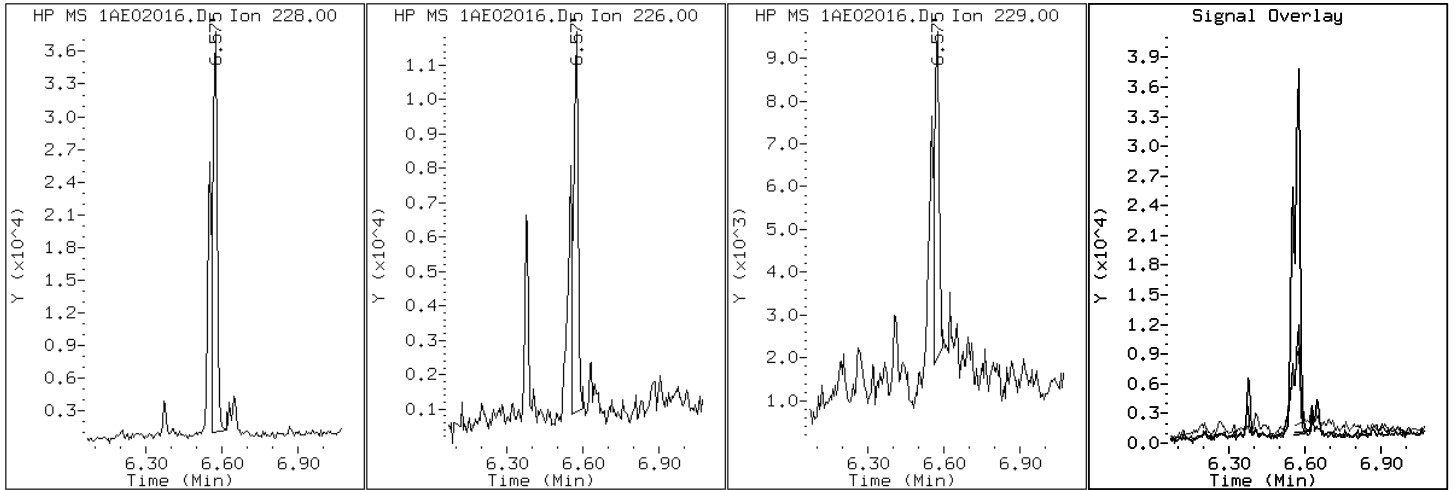
Client ID: CV0752B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-21-a

Operator: SCC

19 Chrysene



Data File: 1AE02016.D

Date: 02-MAY-2013 18:57

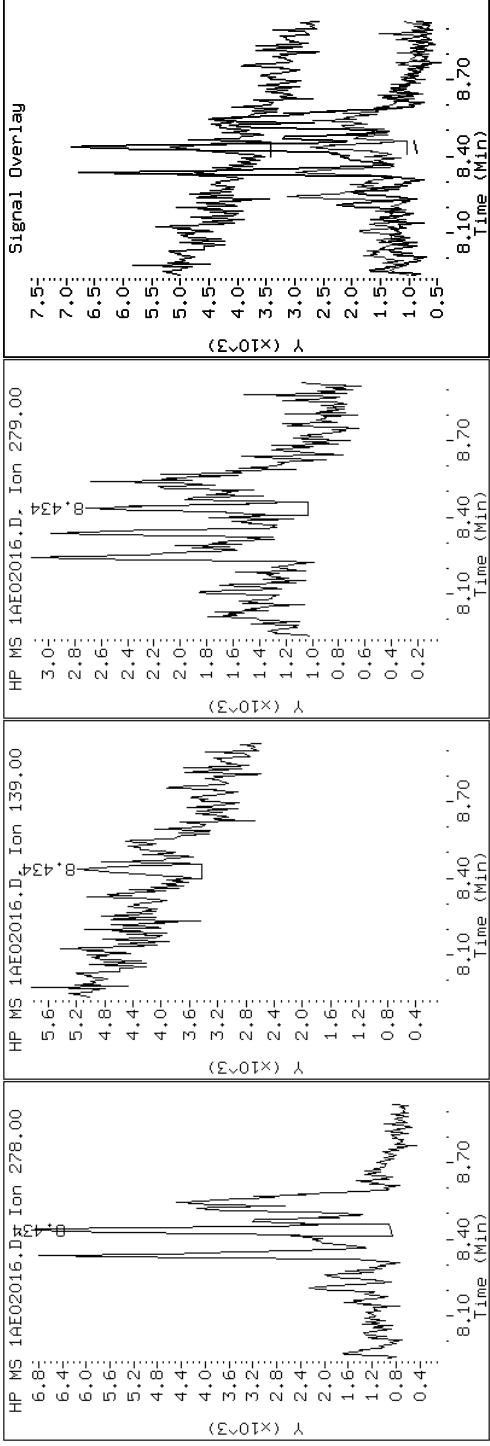
Client ID: CV0752B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-21-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AE02016.D

Date: 02-MAY-2013 18:57

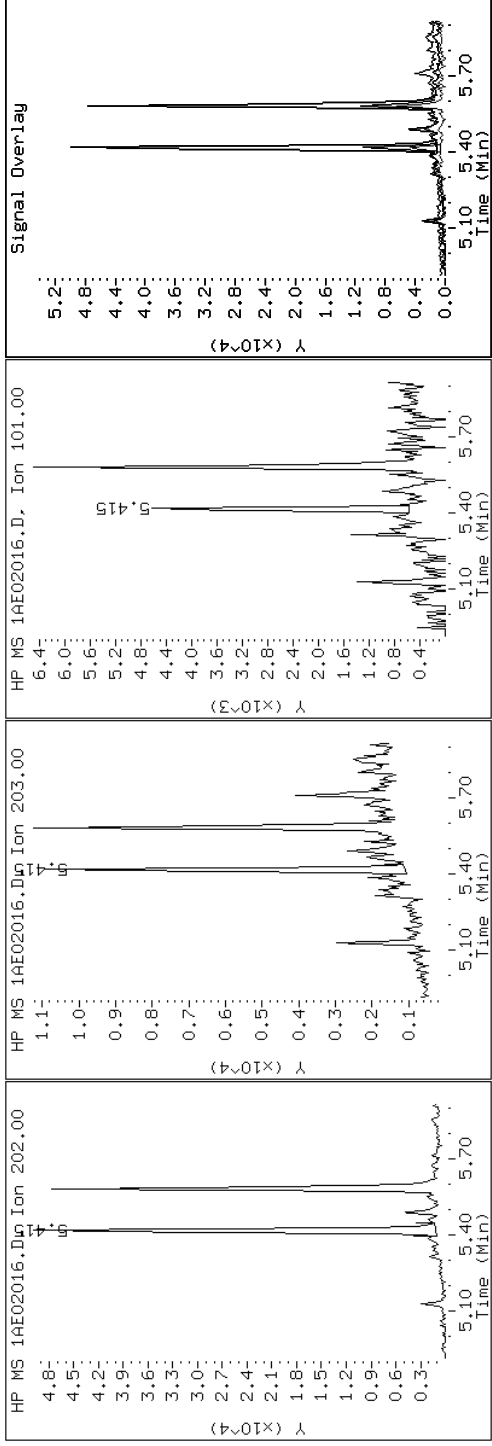
Client ID: CV0752B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-21-a

Operator: SCC

15 Fluoranthene



Data File: 1AE02016.D

Date: 02-MAY-2013 18:57

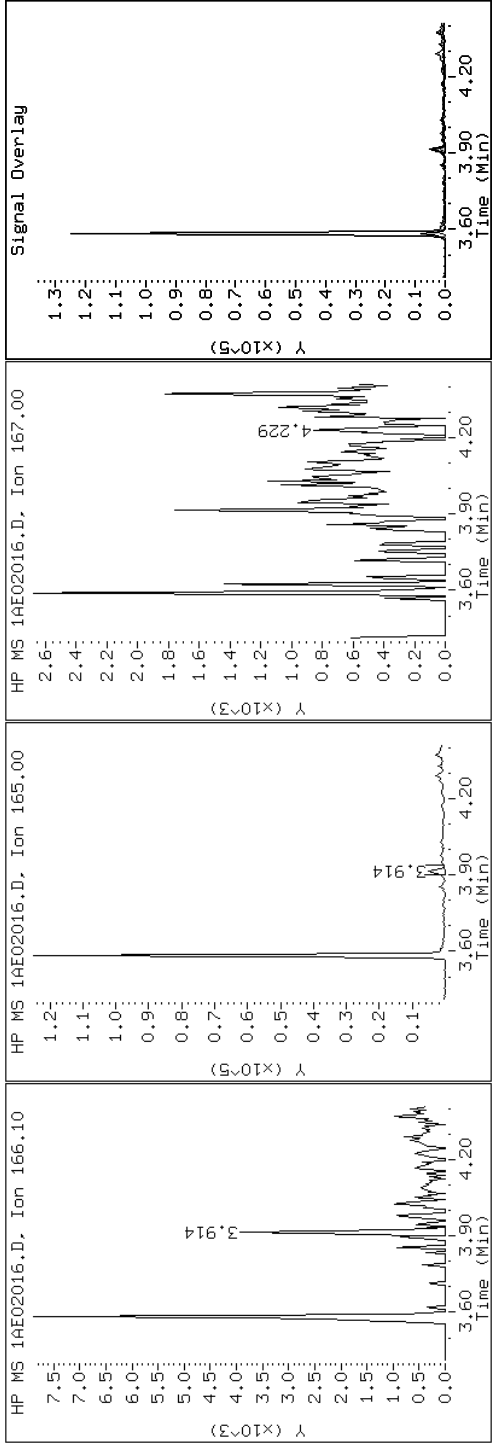
Client ID: CV0752B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-21-a

Operator: SCC

9 Fluorene



Data File: 1AE02016.D

Date: 02-MAY-2013 18:57

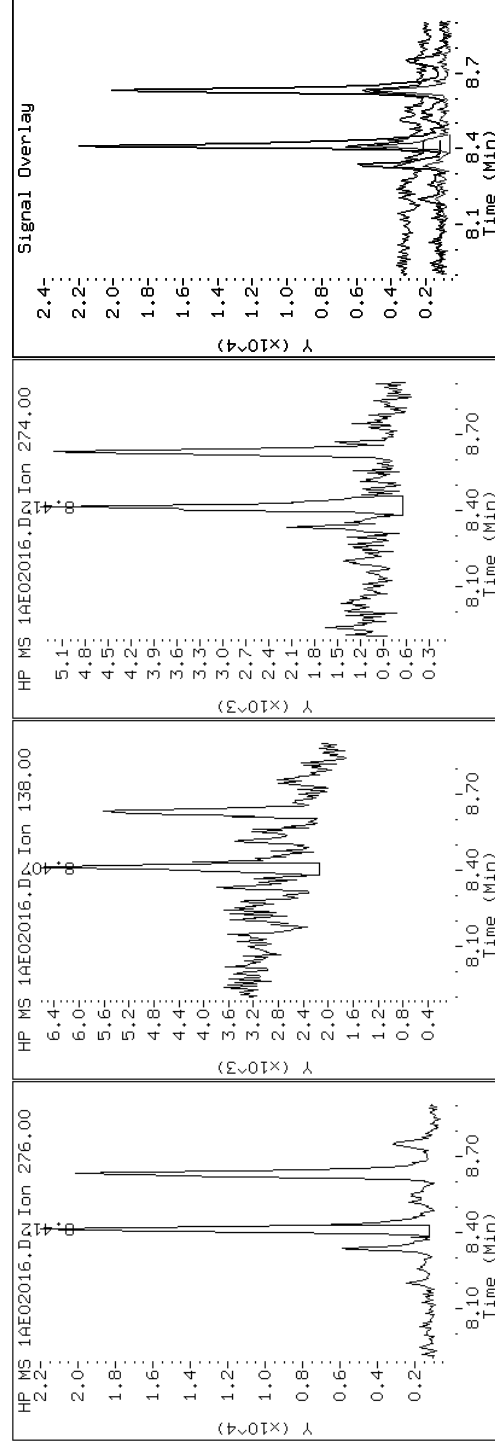
Client ID: CV0752B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-21-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene





Data File: 1AE02016.D

Date: 02-MAY-2013 18:57

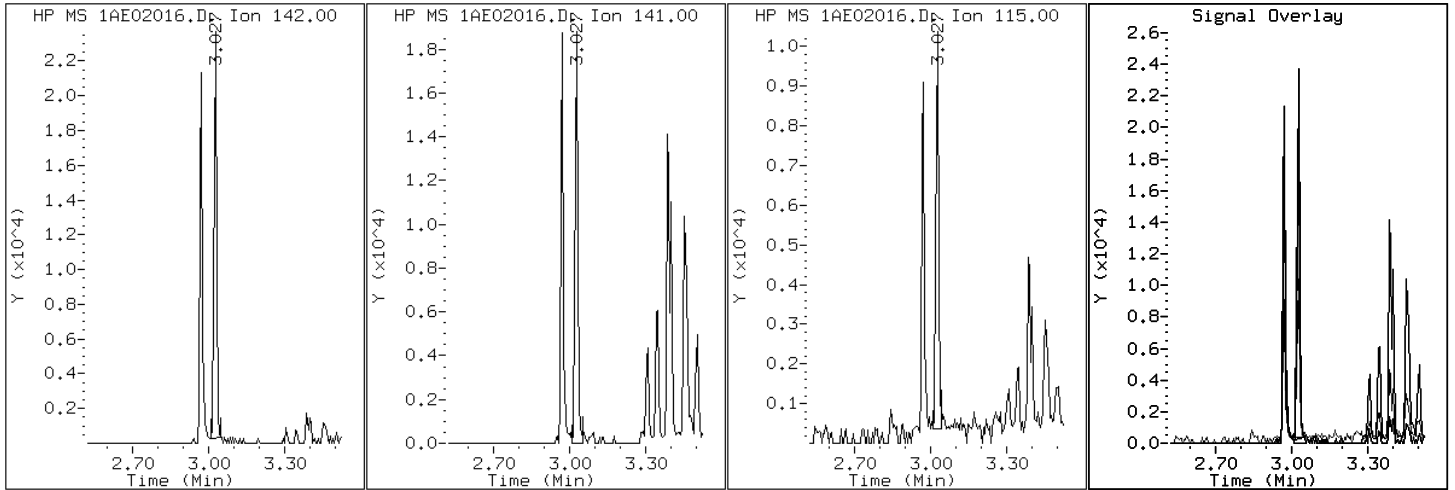
Client ID: CV0752B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-21-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE02016.D

Date: 02-MAY-2013 18:57

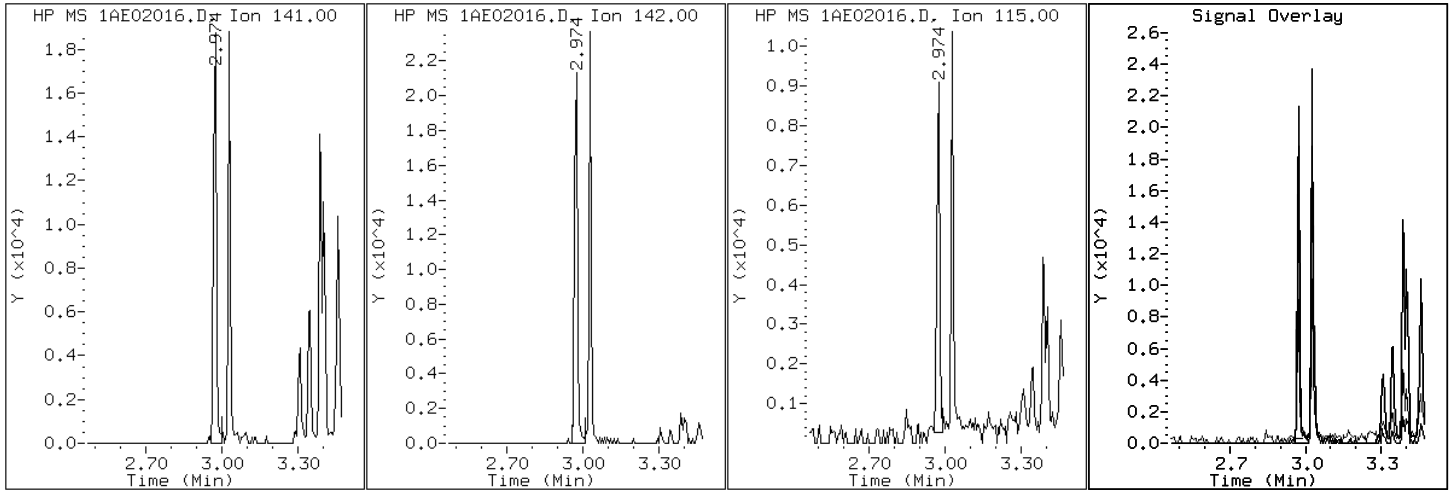
Client ID: CV0752B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-21-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AE02016.D

Date: 02-MAY-2013 18:57

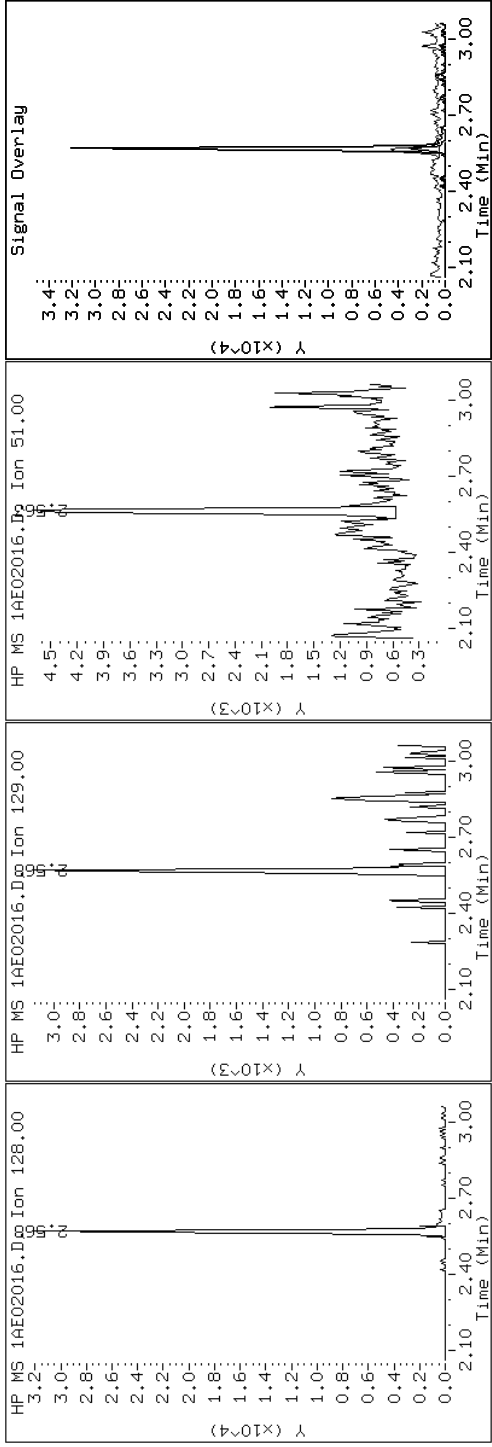
Client ID: CV0752B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-21-a

Operator: SCC

2 Naphthalene



Data File: 1AE02016.D

Date: 02-MAY-2013 18:57

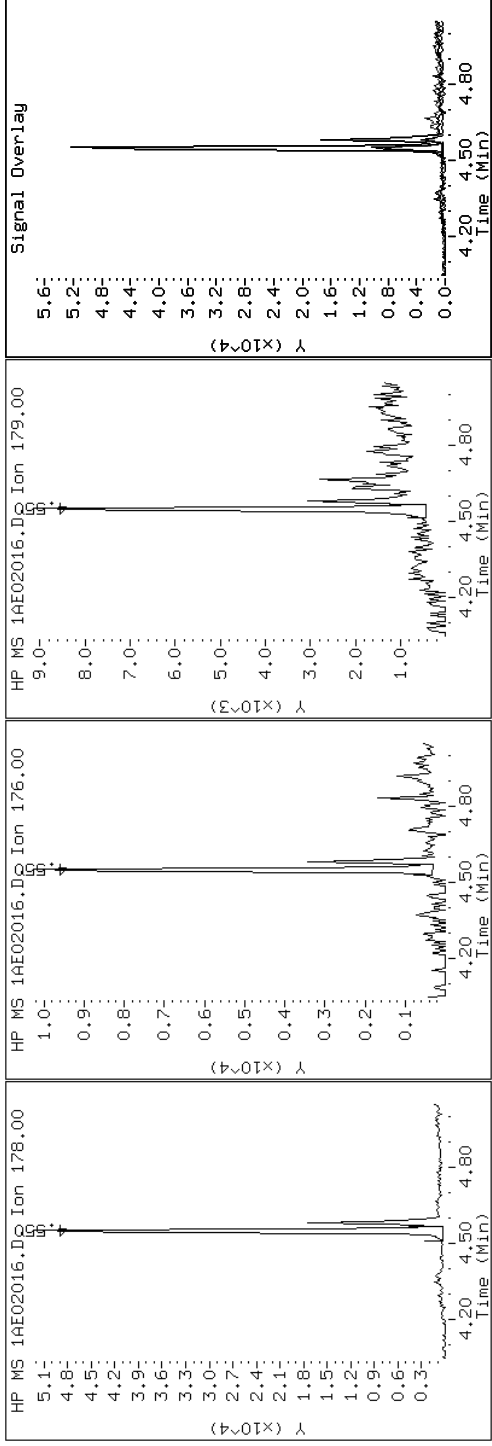
Client ID: CV0752B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-21-a

Operator: SCC

11 Phenanthrene



Data File: 1AE02016.D

Date: 02-MAY-2013 18:57

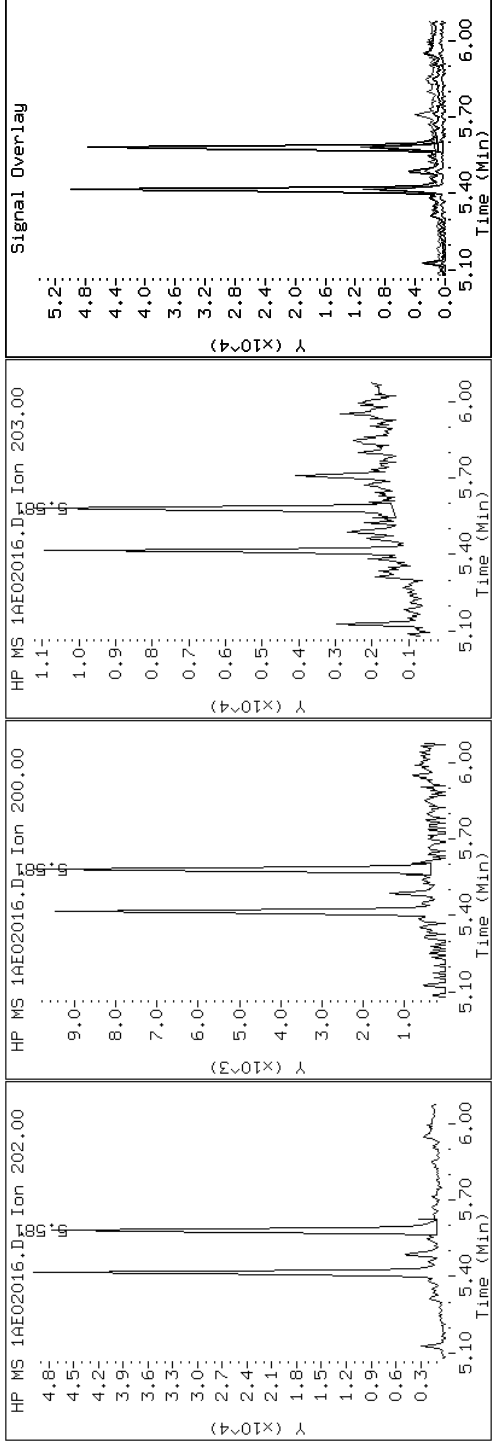
Client ID: CV0752B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-21-a

Operator: SCC

16 Pyrene

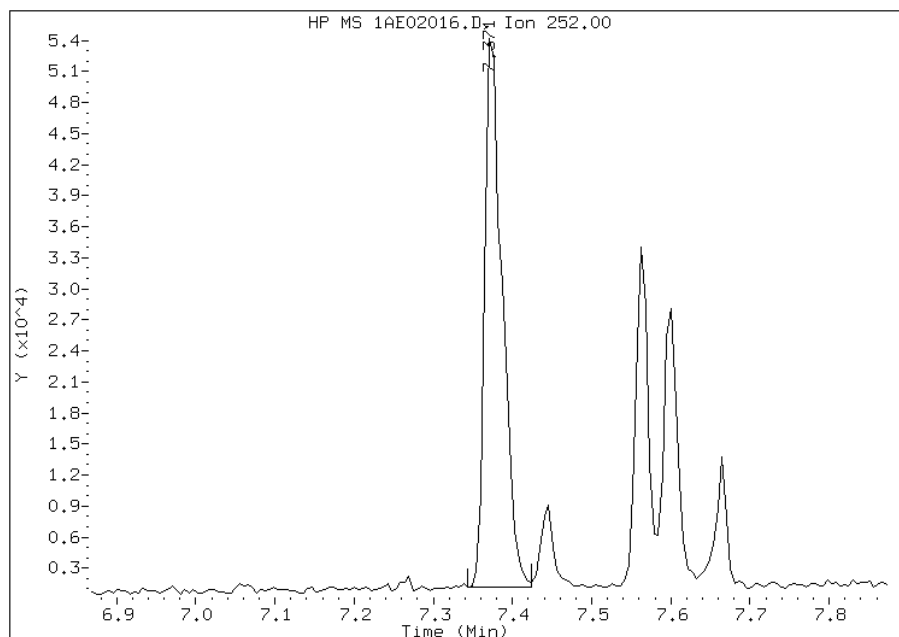


# Manual Integration Report

Data File: 1AE02016.D  
Inj. Date and Time: 02-MAY-2013 18:57  
Instrument ID: BSMA5973.i  
Client ID: CV0752B-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 05/03/2013

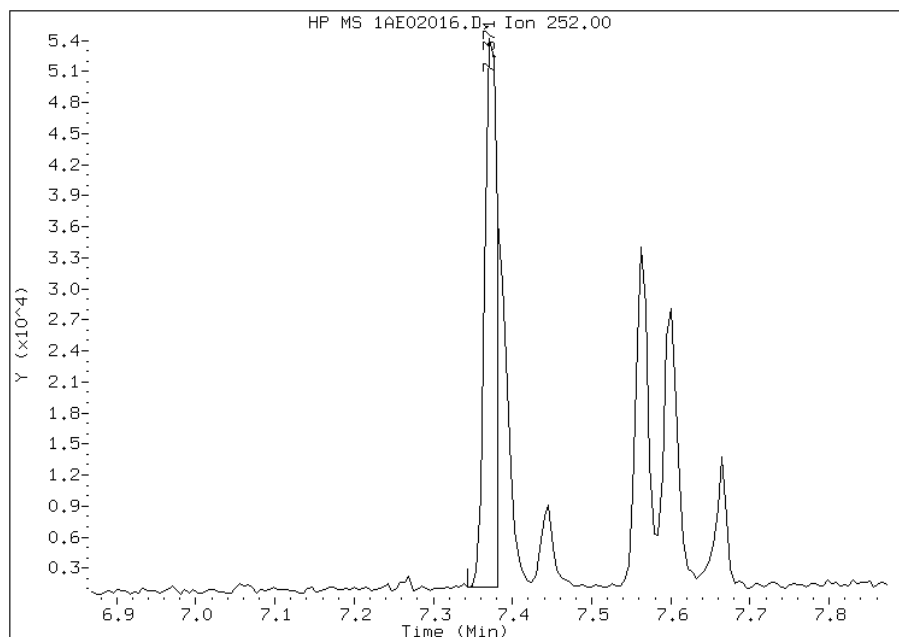
## Processing Integration Results

RT: 7.37  
Response: 81079  
Amount: 3  
Conc: 994



## Manual Integration Results

RT: 7.37  
Response: 57678  
Amount: 2  
Conc: 707



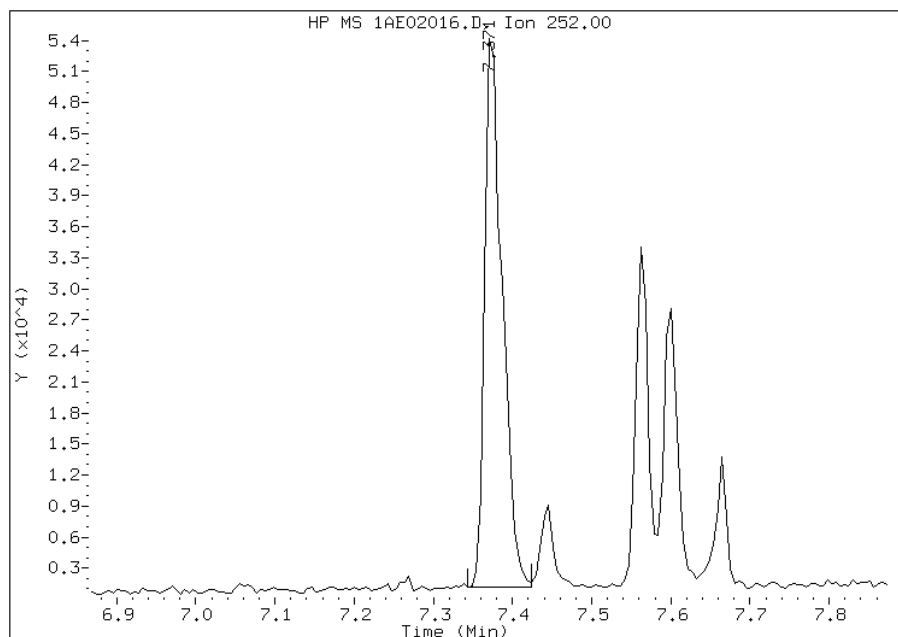
Manually Integrated By: cantins  
Modification Date: 03-May-2013 10:35  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AE02016.D  
Inj. Date and Time: 02-MAY-2013 18:57  
Instrument ID: BSMA5973.i  
Client ID: CV0752B-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 05/03/2013

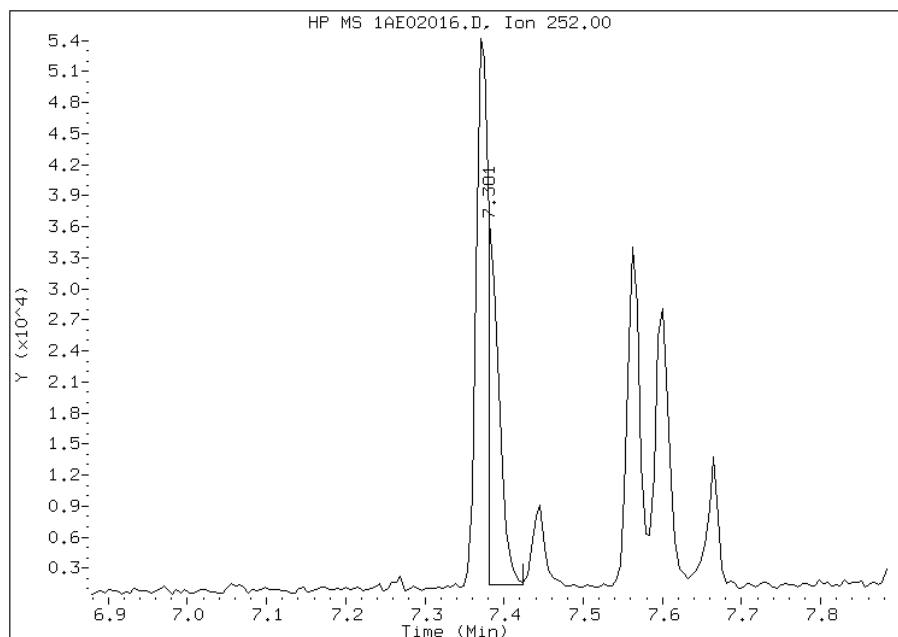
## Processing Integration Results

RT: 7.37  
Response: 81079  
Amount: 3  
Conc: 864



## Manual Integration Results

RT: 7.38  
Response: 33985  
Amount: 1  
Conc: 362



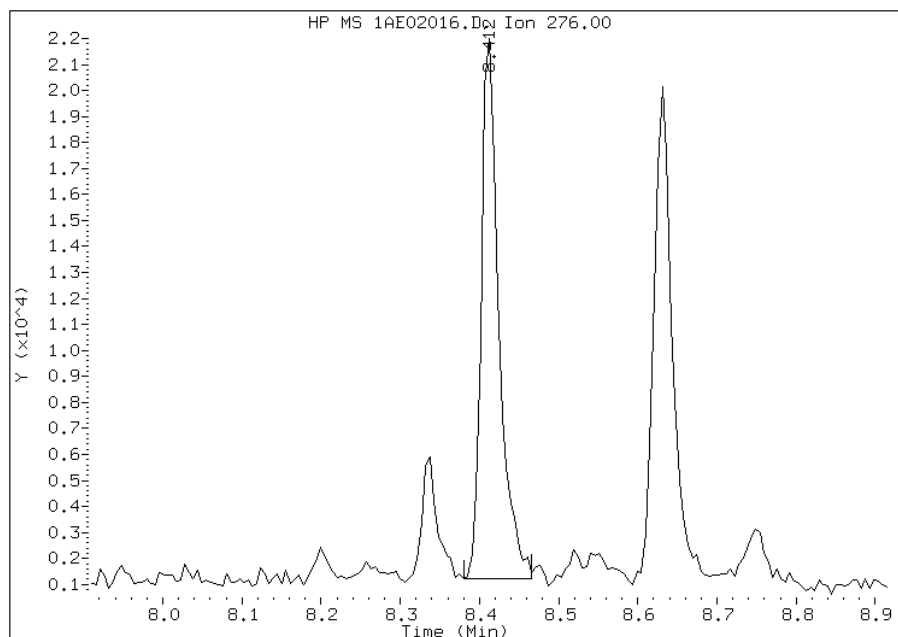
Manually Integrated By: cantins  
Modification Date: 03-May-2013 10:36  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE02016.D  
Inj. Date and Time: 02-MAY-2013 18:57  
Instrument ID: BSMA5973.i  
Client ID: CV0752B-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/03/2013

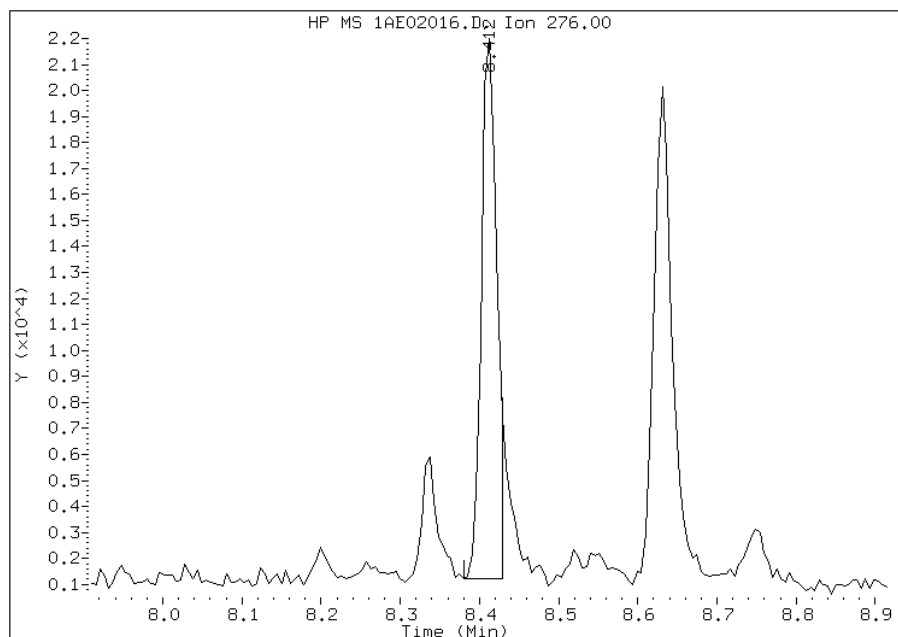
## Processing Integration Results

RT: 8.41  
Response: 31753  
Amount: 1  
Conc: 414



## Manual Integration Results

RT: 8.41  
Response: 27712  
Amount: 1  
Conc: 362



Manually Integrated By: cantins  
Modification Date: 03-May-2013 10:42  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: CV1312A-CS-SP Lab Sample ID: 680-89791-23  
 Matrix: Solid Lab File ID: 1AE02020.D  
 Analysis Method: 8270C LL Date Collected: 04/25/2013 09:50  
 Extract. Method: 3546 Date Extracted: 04/30/2013 14:42  
 Sample wt/vol: 14.97(g) Date Analyzed: 05/02/2013 19:57  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 19.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137070 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	26	J	49	6.2
120-12-7	Anthracene	78		10	5.2
56-55-3	Benzo[a]anthracene	300		9.9	4.8
50-32-8	Benzo[a]pyrene	270		13	6.4
205-99-2	Benzo[b]fluoranthene	420		15	7.5
191-24-2	Benzo[g,h,i]perylene	210		25	5.4
207-08-9	Benzo[k]fluoranthene	190		9.9	4.5
218-01-9	Chrysene	400		11	5.6
53-70-3	Dibenz(a,h)anthracene	77		25	5.1
206-44-0	Fluoranthene	400		25	4.9
86-73-7	Fluorene	20	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	200		25	8.8
90-12-0	1-Methylnaphthalene	150		49	5.4
91-57-6	2-Methylnaphthalene	180		49	8.8
91-20-3	Naphthalene	140		49	5.4
85-01-8	Phenanthrene	350		9.9	4.8
129-00-0	Pyrene	340		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	58		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02020.D  
 Lab Smp Id: 680-89791-A-23-A Client Smp ID: CV1312A-CS-SP  
 Inj Date : 02-MAY-2013 19:57  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-89791-a-23-a  
 Misc Info : 680-89791-A-23-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\a-bFASTPAHi-m.m  
 Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 17  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	18.985	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.555	2.550	(1.000)	1177175	40.0000		
* 6 Acenaphthene-d10	164		3.586	3.581	(1.000)	600563	40.0000		
* 10 Phenanthrene-d10	188		4.537	4.532	(1.000)	837609	40.0000		
\$ 14 o-Terphenyl	230		4.836	4.831	(1.066)	79490	5.80207	478.4021	
* 18 Chrysene-d12	240		6.562	6.551	(1.000)	766361	40.0000		
* 23 Perylene-d12	264		7.657	7.641	(1.000)	961455	40.0000		
2 Naphthalene	128		2.566	2.560	(1.004)	49928	1.69668	139.8972	
3 2-Methylnaphthalene	141		2.972	2.972	(1.163)	36733	2.17727	179.5240	
4 1-Methylnaphthalene	142		3.030	3.025	(1.186)	33466	1.79041	147.6259	
5 Acenaphthylene	152		3.495	3.490	(0.975)	10971	0.31258	25.7731	
7 Acenaphthene	154		3.602	3.597	(1.004)	4607	0.25029	20.6374(aQ)	
9 Fluorene	166		3.917	3.912	(1.092)	5342	0.24122	19.8896(Q)	
11 Phenanthrene	178		4.553	4.548	(1.004)	103155	4.25138	350.5425	
12 Anthracene	178		4.585	4.580	(1.011)	23770	0.94216	77.6848	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.724	4.713	(1.041)	13916	0.57177	47.1446
15 Fluoranthene	202	5.418	5.413	(1.194)	134819	4.81062	396.6533
16 Pyrene	202	5.584	5.579	(0.851)	121336	4.15005	342.1873
17 Benzo(a)anthracene	228	6.556	6.540	(0.999)	89922	3.59298	296.2550
19 Chrysene	228	6.578	6.572	(1.002)	123874	4.87875	402.2714
20 Benzo(b)fluoranthene	252	7.379	7.363	(0.964)	149873	5.13454	423.3616(M)
21 Benzo(k)fluoranthene	252	7.390	7.384	(0.965)	76113	2.26795	187.0012(M)
22 Benzo(a)pyrene	252	7.603	7.593	(0.993)	95714	3.29617	271.7818
24 Indeno(1,2,3-cd)pyrene	276	8.426	8.405	(1.100)	65138	2.37575	195.8898(M)
25 Dibenzo(a,h)anthracene	278	8.447	8.431	(1.103)	23787	0.93242	76.8818
26 Benzo(g,h,i)perylene	276	8.645	8.624	(1.129)	76407	2.48998	205.3083

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: 1AE02020.D

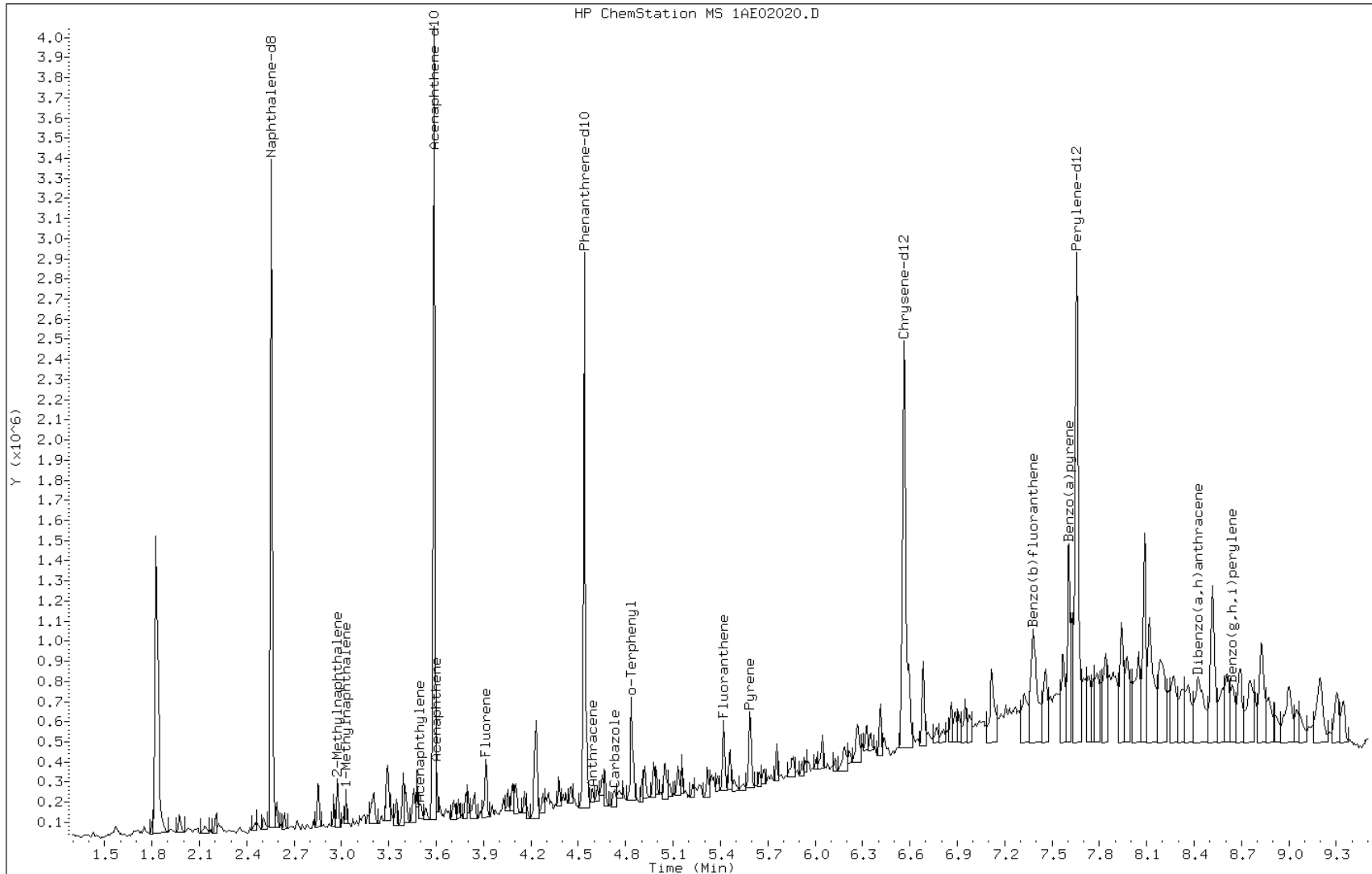
Date: 02-MAY-2013 19:57

Client ID: CV1312A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-23-a

Operator: SCC



Data File: 1AE02020.D

Date: 02-MAY-2013 19:57

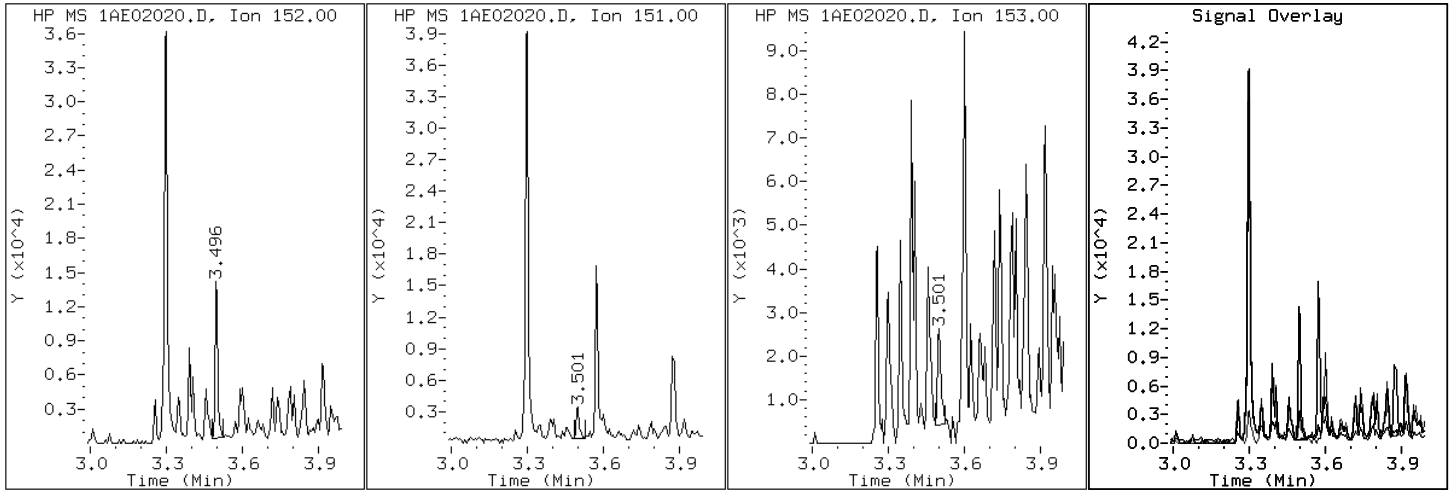
Client ID: CV1312A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-23-a

Operator: SCC

5 Acenaphthylene



Data File: 1AE02020.D

Date: 02-MAY-2013 19:57

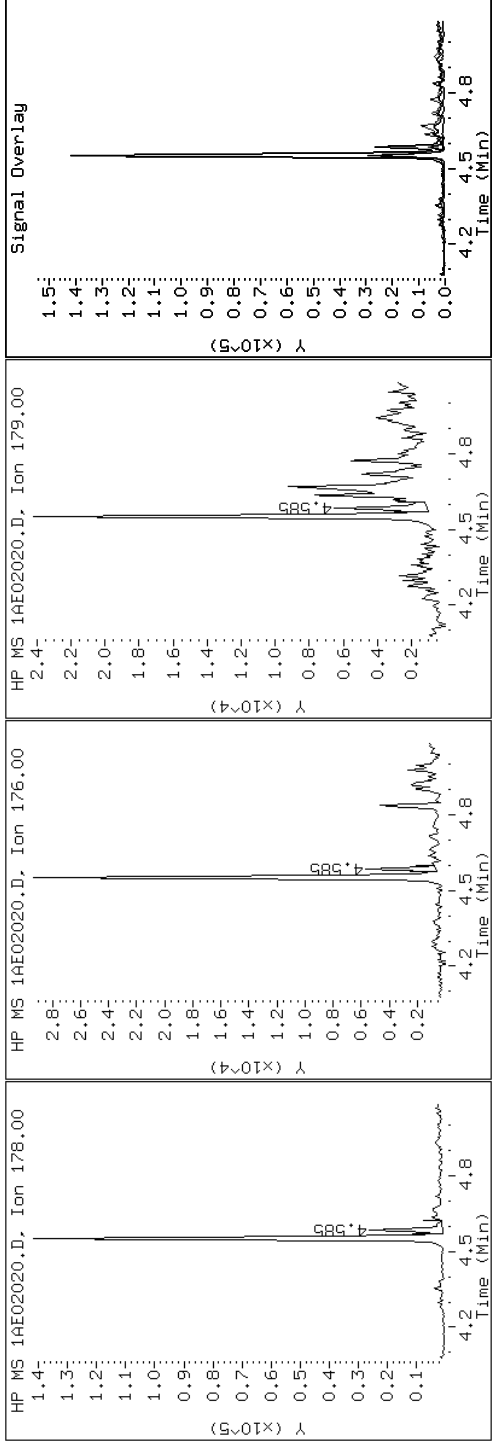
Client ID: CV1312A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-23-a

Operator: SCC

12 Anthracene



Data File: 1AE02020.D

Date: 02-MAY-2013 19:57

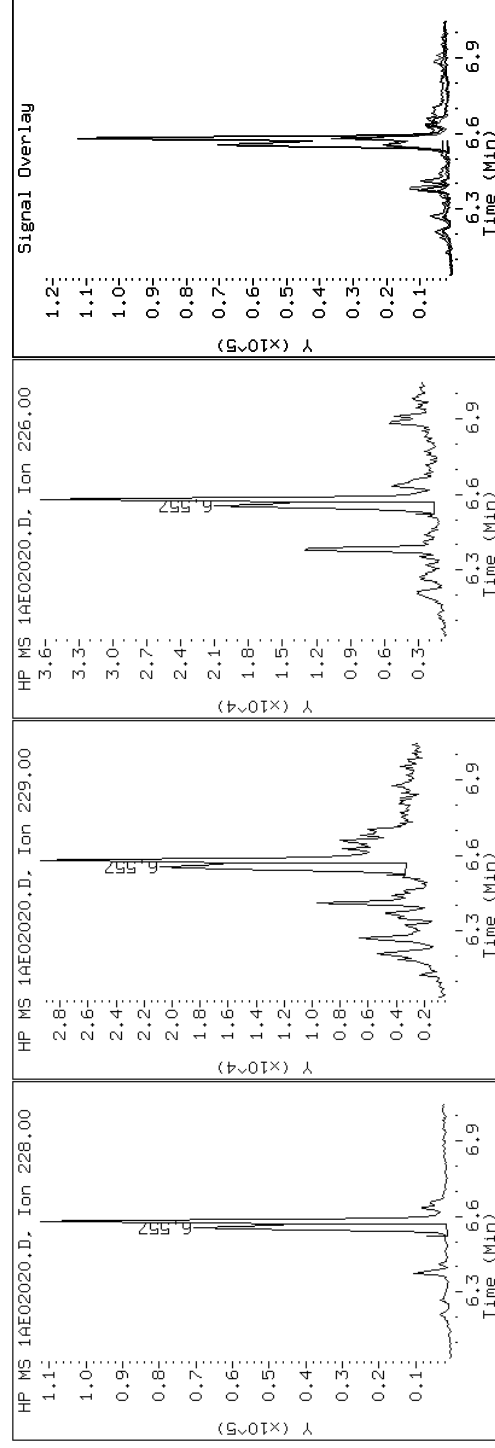
Client ID: CV1312A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-23-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AE02020.D

Date: 02-MAY-2013 19:57

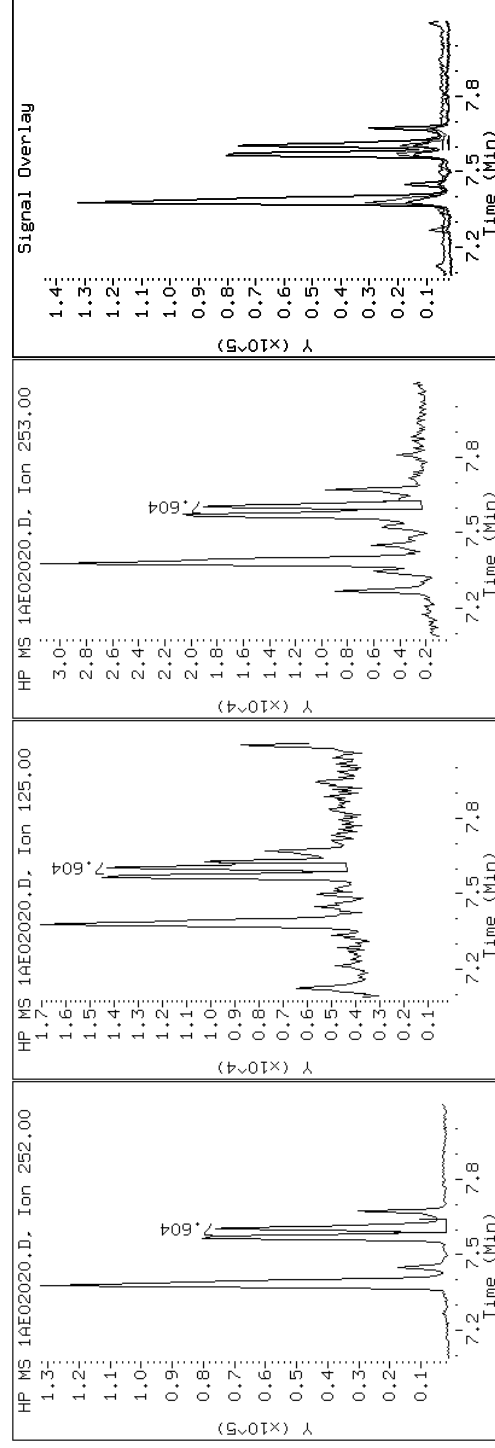
Client ID: CV1312A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-23-a

Operator: SCC

22 Benzo(a)pyrene





Data File: 1AE02020.D

Date: 02-MAY-2013 19:57

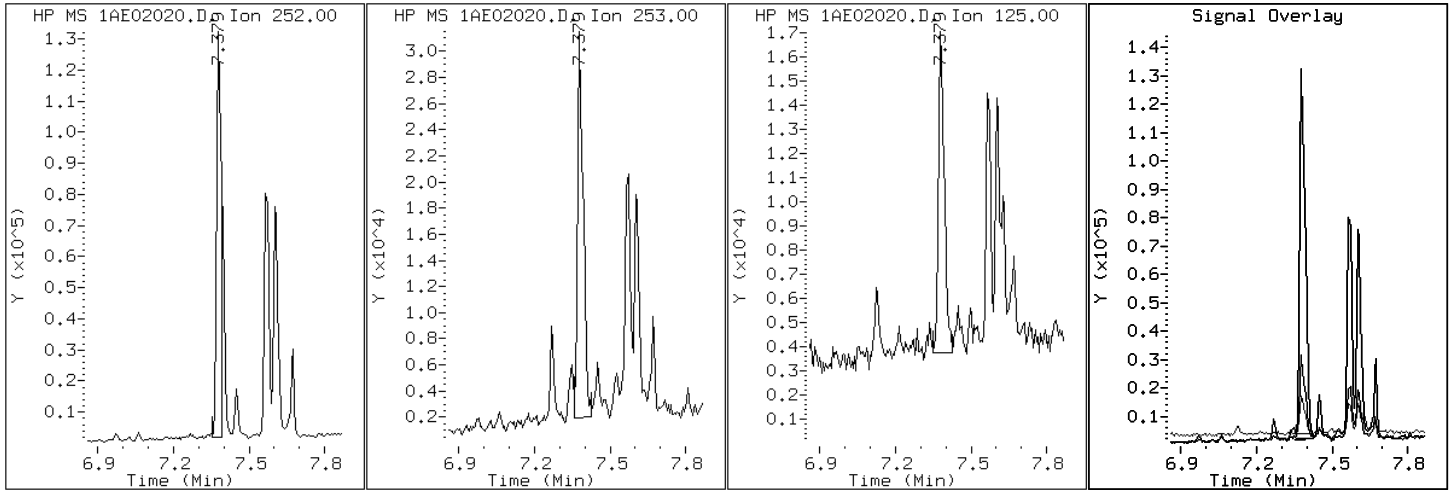
Client ID: CV1312A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-23-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AE02020.D

Date: 02-MAY-2013 19:57

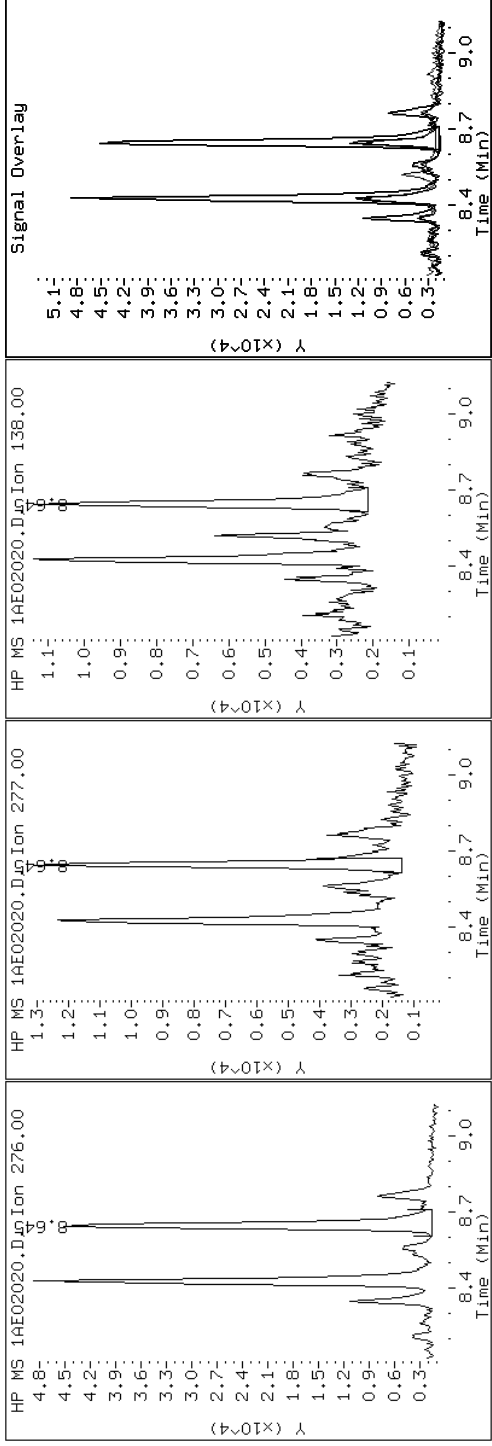
Client ID: CV1312A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-23-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AE02020.D

Date: 02-MAY-2013 19:57

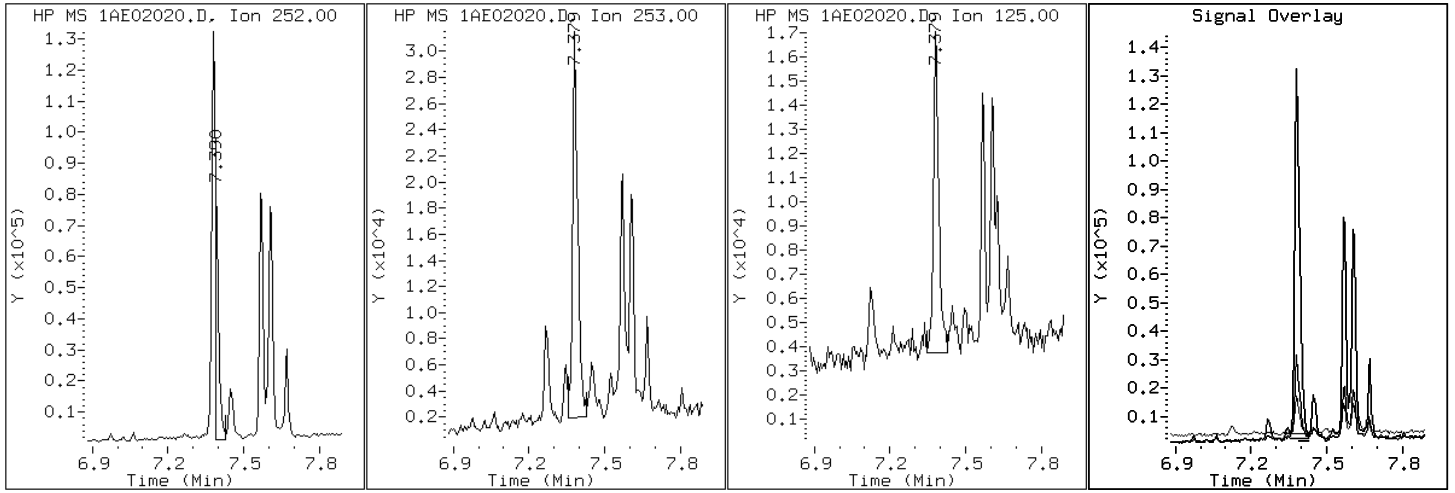
Client ID: CV1312A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-23-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AE02020.D

Date: 02-MAY-2013 19:57

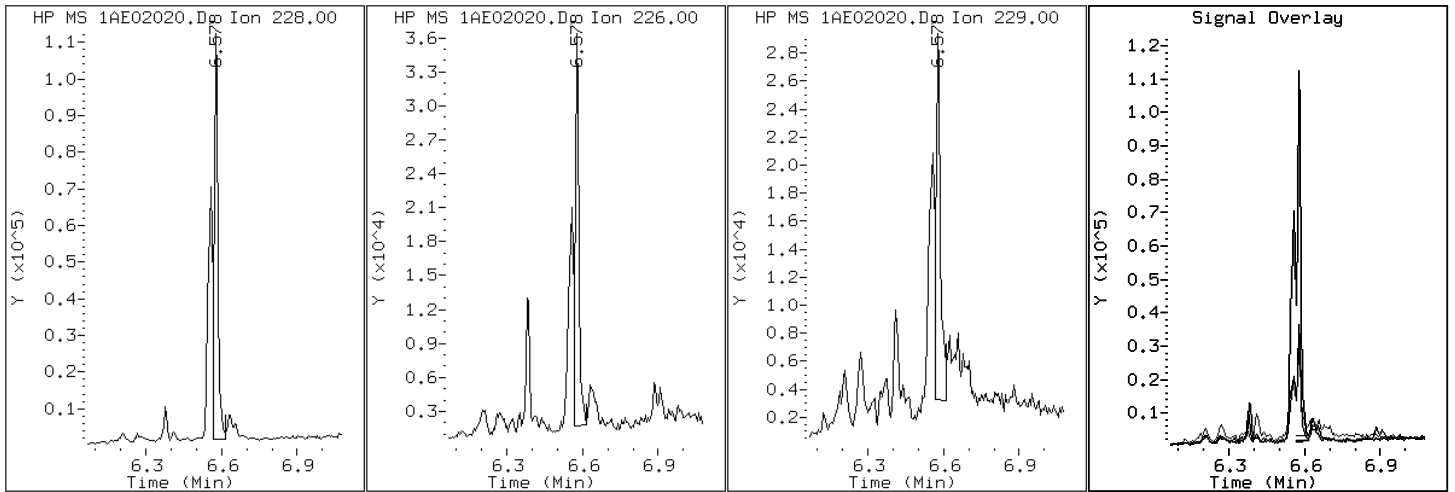
Client ID: CV1312A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-23-a

Operator: SCC

19 Chrysene



Data File: 1AE02020.D

Date: 02-MAY-2013 19:57

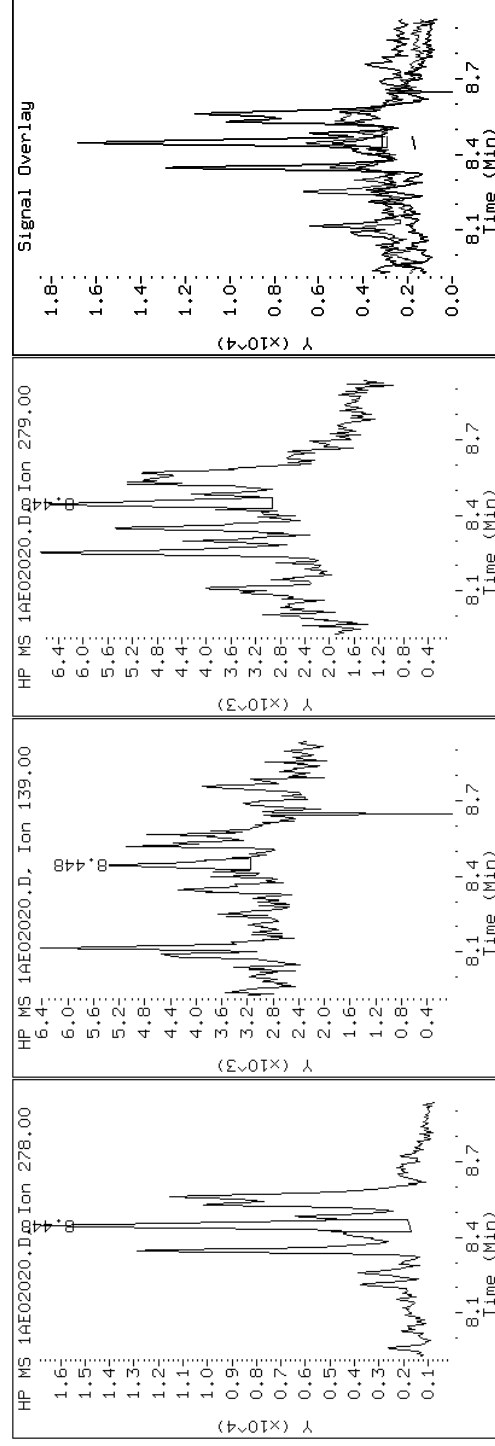
Client ID: CV1312A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-23-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AE02020.D

Date: 02-MAY-2013 19:57

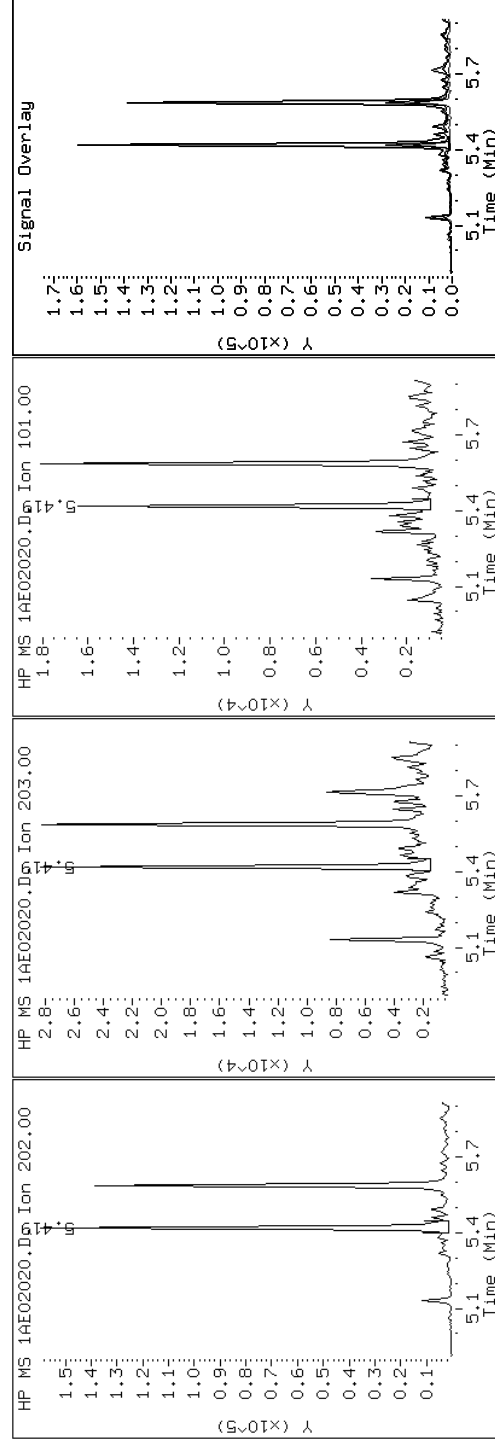
Client ID: CV1312A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-23-a

Operator: SCC

15 Fluoranthene



Data File: 1AE02020.D

Date: 02-MAY-2013 19:57

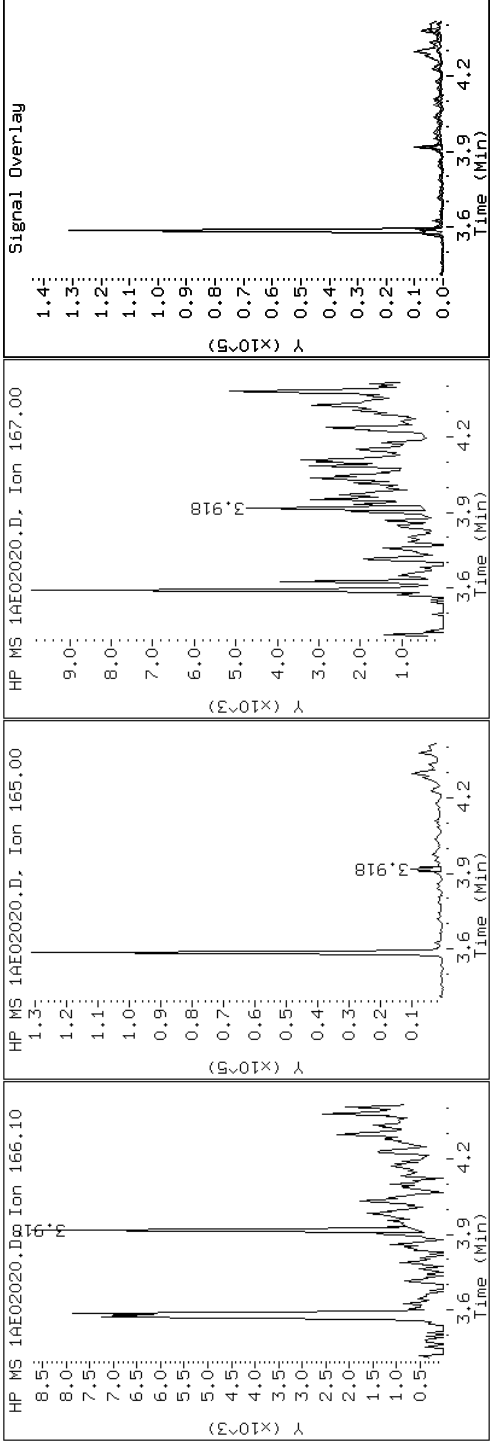
Client ID: CV1312A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-23-a

Operator: SCC

9 Fluorene



Data File: 1AE02020.D

Date: 02-MAY-2013 19:57

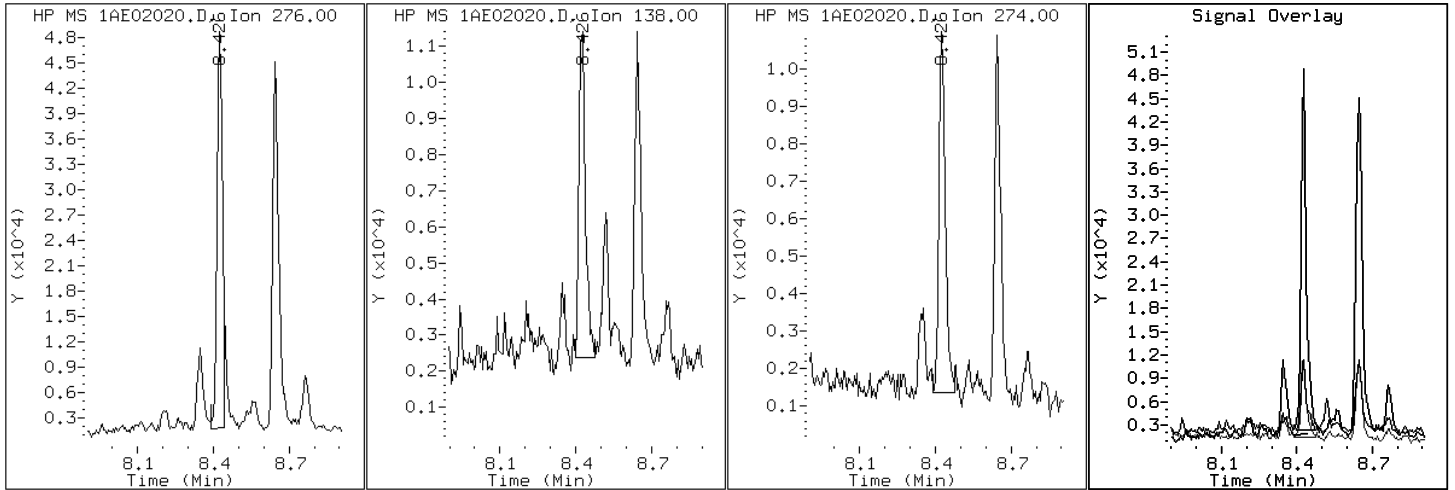
Client ID: CV1312A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-23-a

Operator: SCC

24 Indeno(1,2,3-cd)pyrene





Data File: 1AE02020.D

Date: 02-MAY-2013 19:57

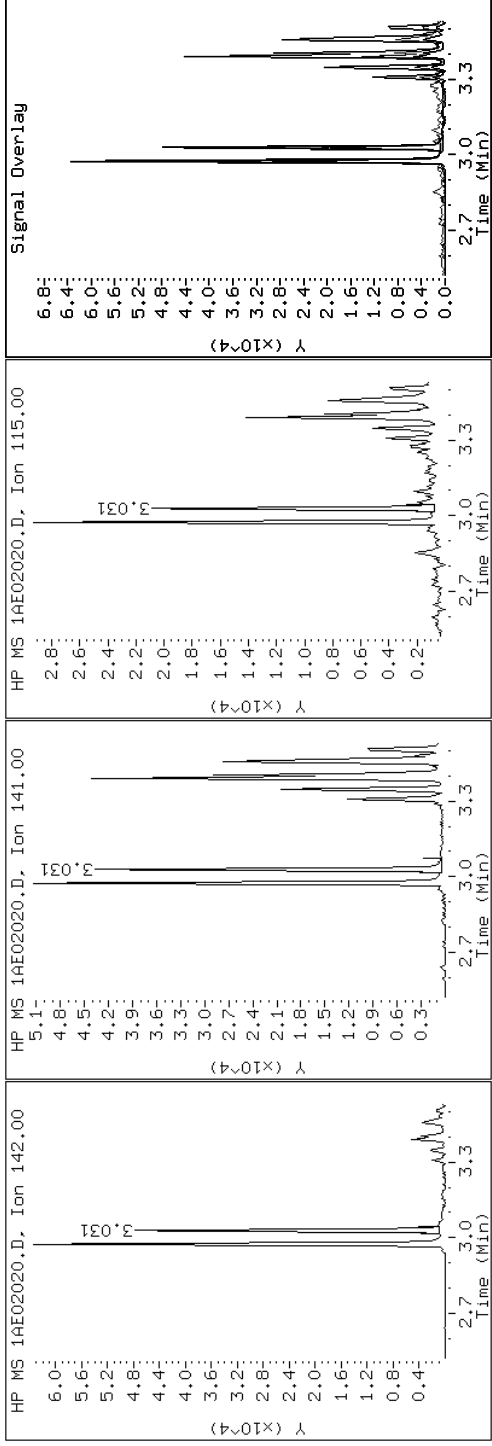
Client ID: CV1312A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-23-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE02020.D

Date: 02-MAY-2013 19:57

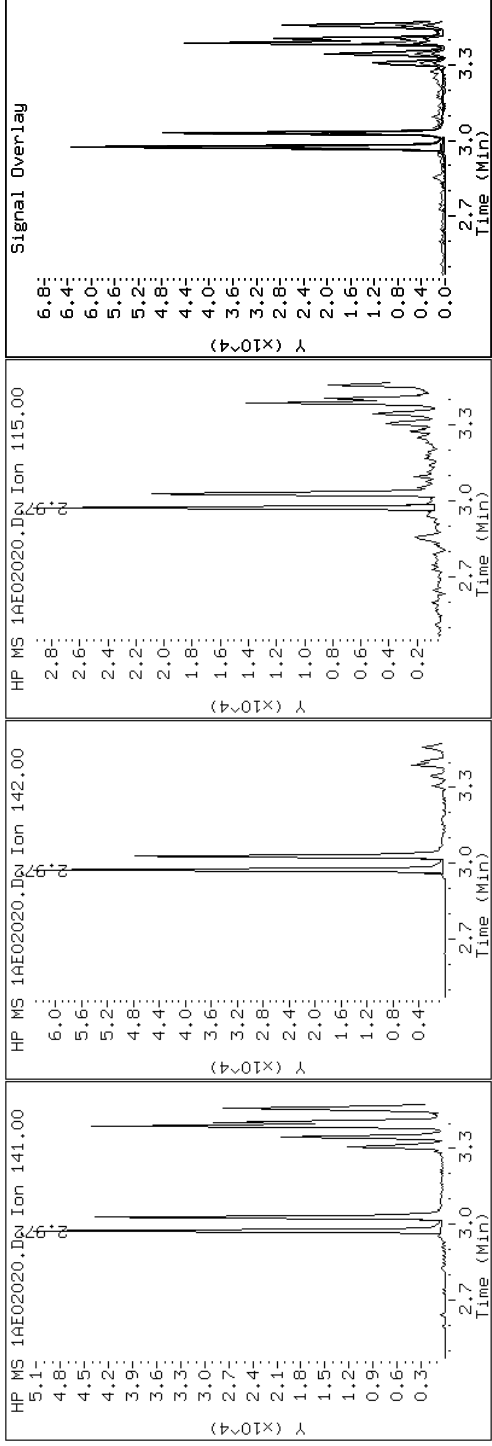
Client ID: CV1312A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-23-a

Operator: SCC

### 3 2-Methylnaphthalene



Data File: 1AE02020.D

Date: 02-MAY-2013 19:57

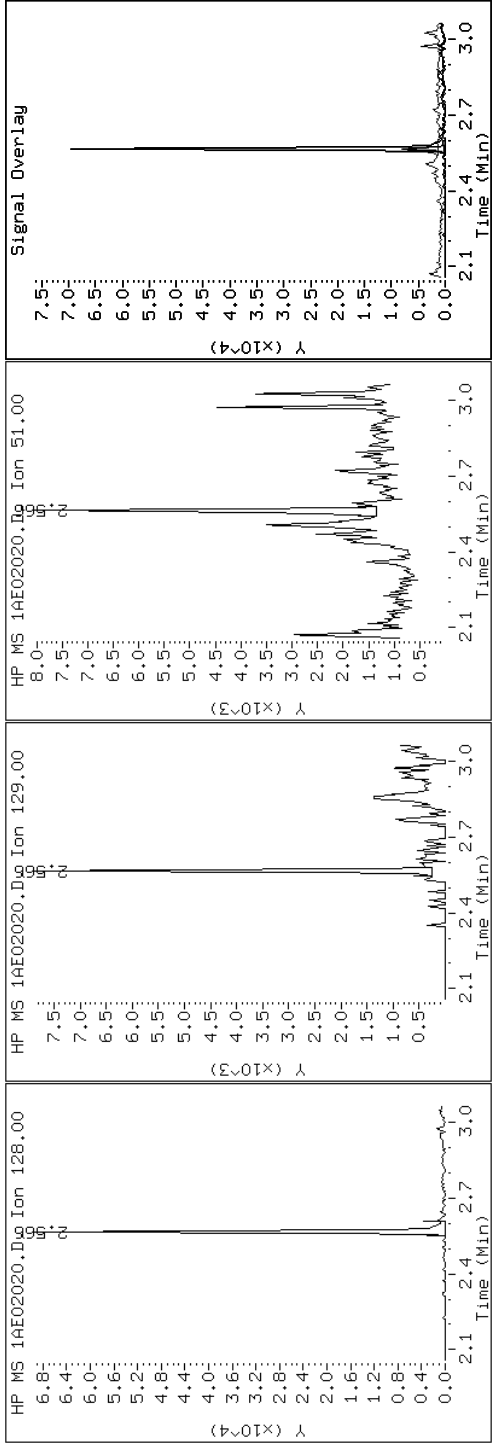
Client ID: CV1312A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-23-a

Operator: SCC

### 2 Naphthalene



Data File: 1AE02020.D

Date: 02-MAY-2013 19:57

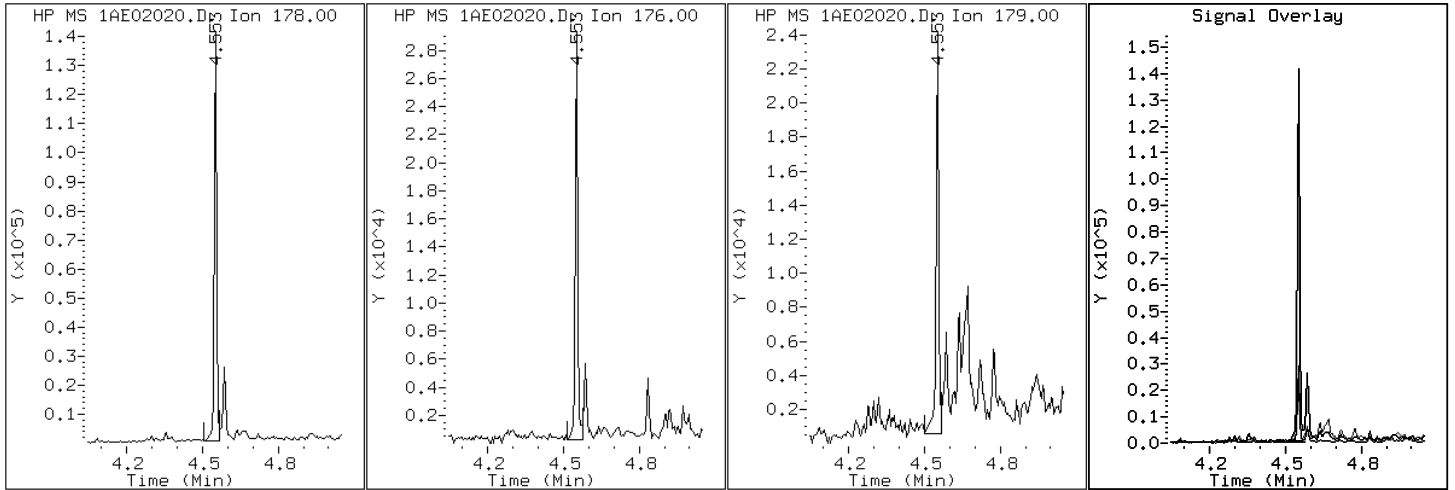
Client ID: CV1312A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-23-a

Operator: SCC

11 Phenanthrene



Data File: 1AE02020.D

Date: 02-MAY-2013 19:57

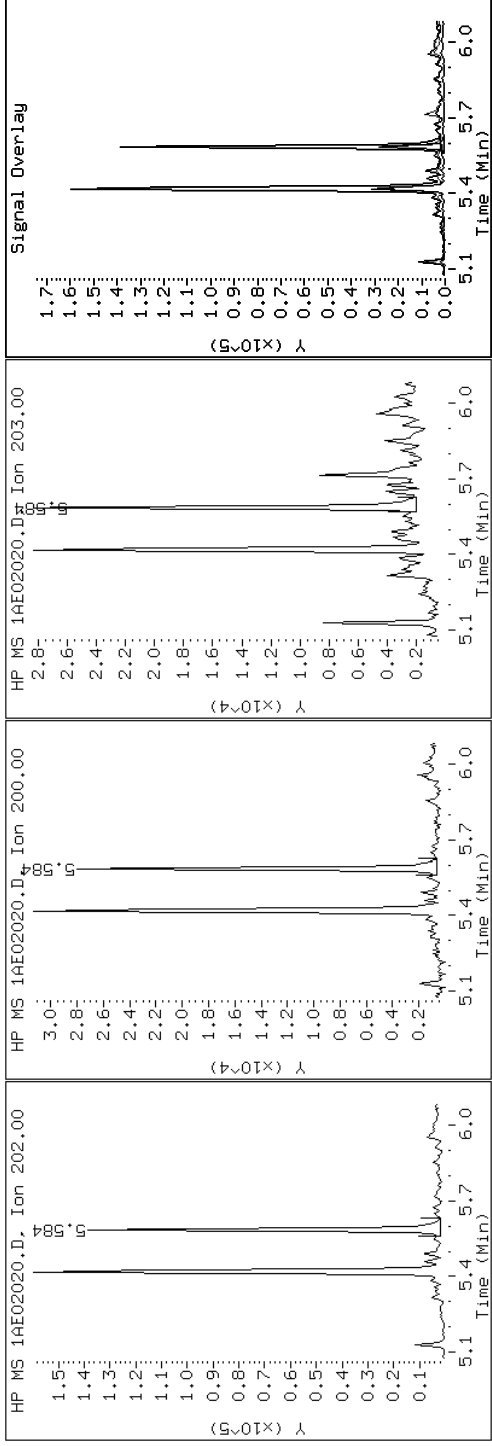
Client ID: CV1312A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89791-a-23-a

Operator: SCC

16 Pyrene

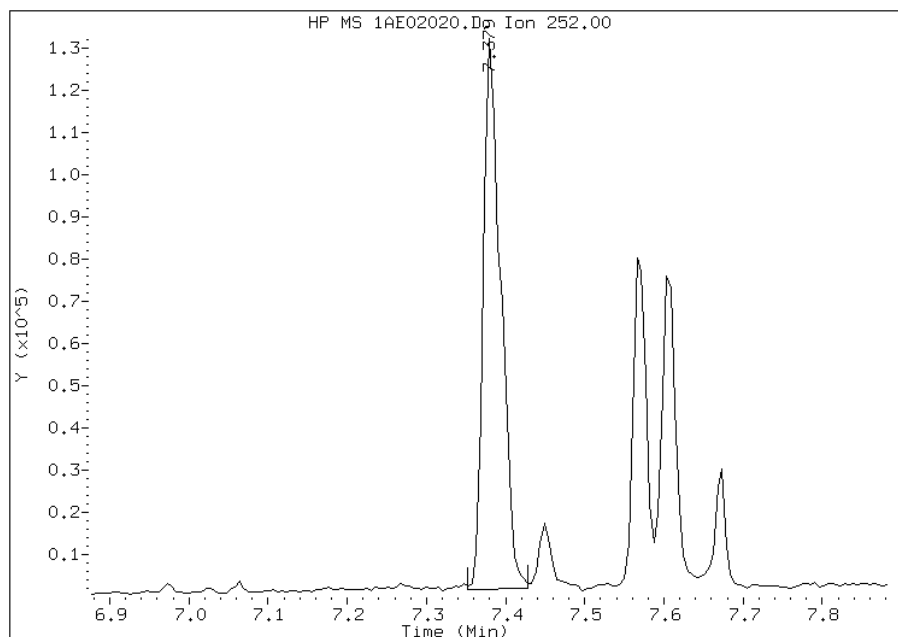


# Manual Integration Report

Data File: 1AE02020.D  
Inj. Date and Time: 02-MAY-2013 19:57  
Instrument ID: BSMA5973.i  
Client ID: CV1312A-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 05/03/2013

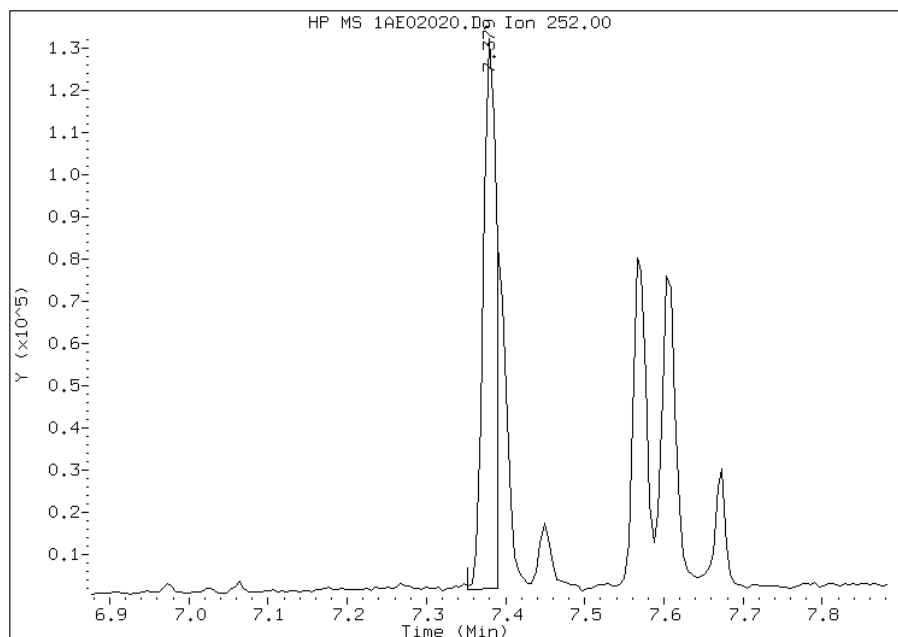
## Processing Integration Results

RT: 7.38  
Response: 198418  
Amount: 7  
Conc: 560



## Manual Integration Results

RT: 7.38  
Response: 149873  
Amount: 5  
Conc: 423



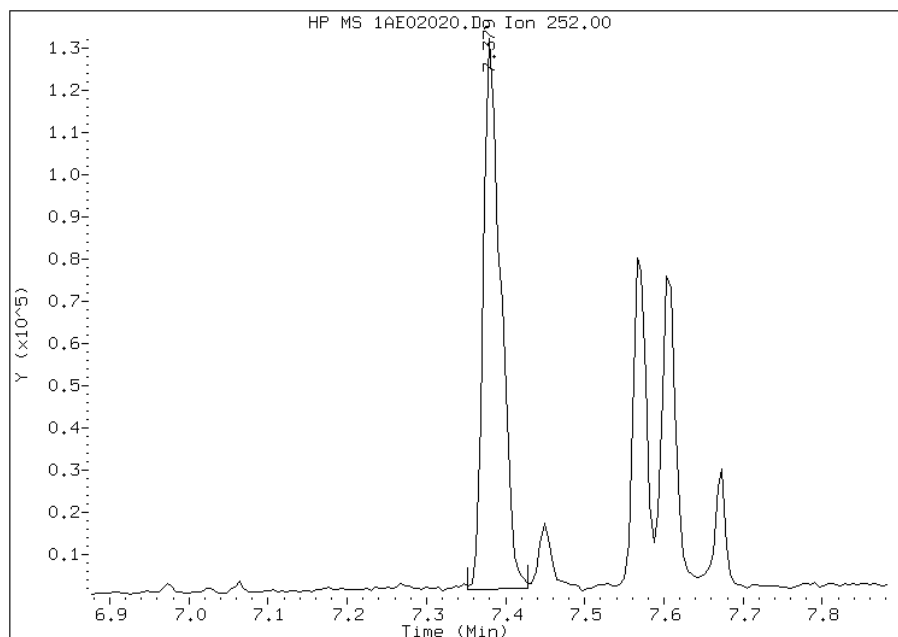
Manually Integrated By: cantins  
Modification Date: 03-May-2013 10:49  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AE02020.D  
Inj. Date and Time: 02-MAY-2013 19:57  
Instrument ID: BSMA5973.i  
Client ID: CV1312A-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 05/03/2013

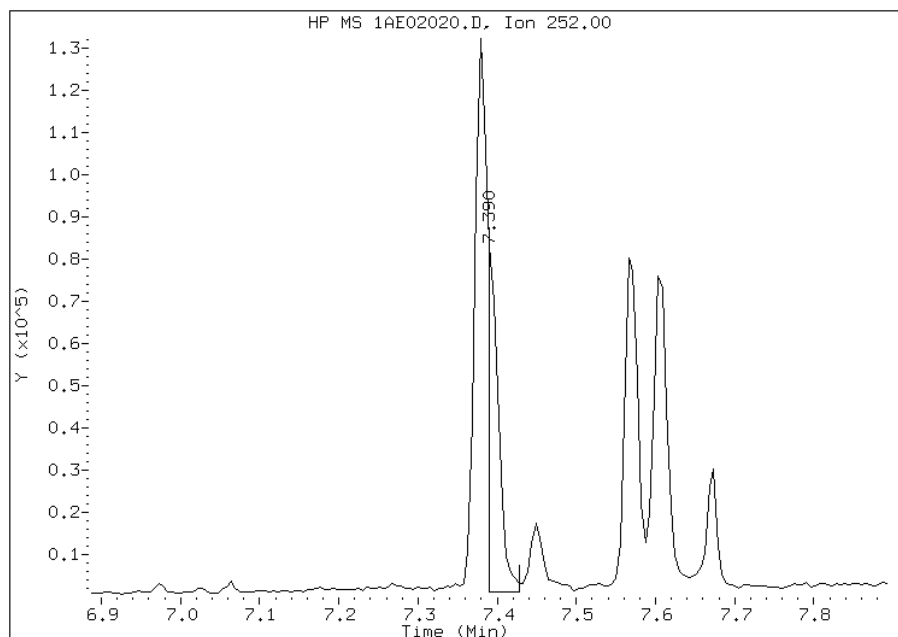
## Processing Integration Results

RT: 7.38  
Response: 198418  
Amount: 6  
Conc: 487



## Manual Integration Results

RT: 7.39  
Response: 76113  
Amount: 2  
Conc: 187



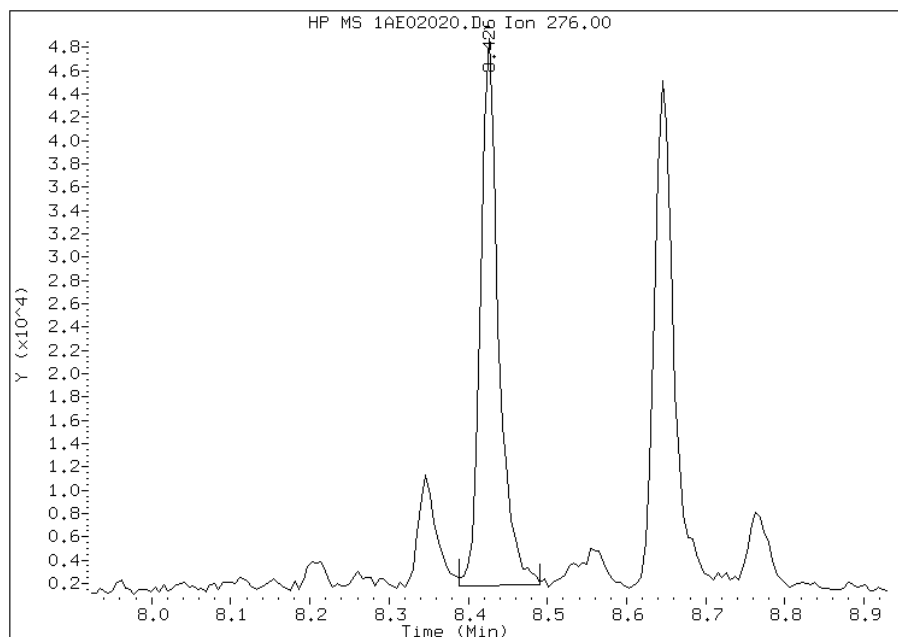
Manually Integrated By: cantins  
Modification Date: 03-May-2013 10:49  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE02020.D  
Inj. Date and Time: 02-MAY-2013 19:57  
Instrument ID: BSMA5973.i  
Client ID: CV1312A-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/03/2013

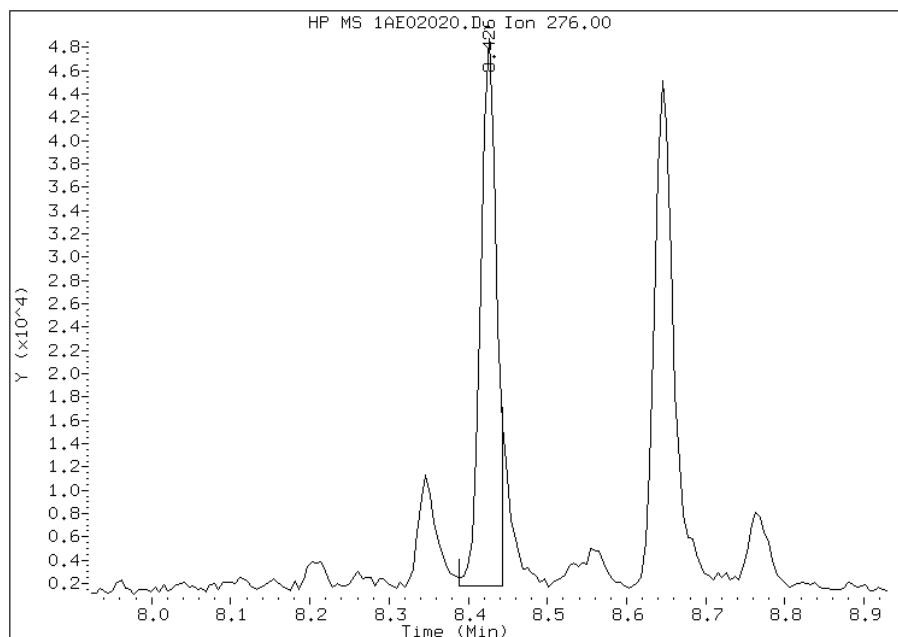
## Processing Integration Results

RT: 8.43  
Response: 73999  
Amount: 3  
Conc: 223



## Manual Integration Results

RT: 8.43  
Response: 65138  
Amount: 2  
Conc: 196



Manually Integrated By: cantins  
Modification Date: 03-May-2013 10:49  
Manual Integration Reason: Split Peak



FORM VI  
GC/MS SEMI VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-89791-1 Analy Batch No.: 136892

SDG No.: 68089791-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 04/26/2013 10:03 Calibration End Date: 04/26/2013 11:34 Calibration ID: 2919

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136892/3	1AD26003.D
Level 2	IC 660-136892/4	1AD26004.D
Level 3	IC 660-136892/5	1AD26005.D
Level 4	IC 660-136892/6	1AD26006.D
Level 5	ICIS 660-136892/7	1AD26007.D
Level 6	IC 660-136892/8	1AD26008.D
Level 7	IC 660-136892/9	1AD26009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Naphthalene	0.9807 0.9678	1.0732 0.8900	1.0807	1.0246	0.9825	Ave	0.9999			0.0000	6.6		15.0				
2-Methylnaphthalene	0.5475 0.5304	0.6500 0.4770	0.6525	0.5874	0.5679	Ave	0.5733			0.0000	11.1		15.0				
1-Methylnaphthalene	0.6553 0.5728	0.7316 0.5089	0.7301	0.6482	0.5991	Ave	0.6351			0.0000	12.9		15.0				
Acenaphthylene	2.3664 2.1362	2.6542 1.8462	2.6916	2.4314	2.2380	Ave	2.3377			0.0000	12.7		15.0				
Acenaphthene	1.4118 1.1125	1.4011 0.9341	1.3816	1.2190	1.1215	Ave	1.2260			0.0000	14.8		15.0				
Fluorene	1.5097 1.3767	1.6462 1.1794	1.6636	1.5206	1.4287	Ave	1.4750			0.0000	11.3		15.0				
Phenanthrene	1.3907 1.0142	1.2926 0.9287	1.2725	1.1400	1.0724	Ave	1.1587			0.0000	14.4		15.0				
Anthracene	1.3104 1.0706	1.3619 0.9491	1.3564	1.2393	1.1461	Ave	1.2048			0.0000	13.0		15.0				
Carbazole	1.1993 1.0651	1.2721 1.0036	1.3075	1.1642	1.1242	Ave	1.1623			0.0000	9.3		15.0				
Fluoranthene	1.3009 1.2420	1.4074 1.1640	1.5310	1.3979	1.3252	Ave	1.3383			0.0000	9.0		15.0				
Pyrene	1.4167 1.4769	1.6244 1.4080	1.6725	1.5706	1.5132	Ave	1.5260			0.0000	6.6		15.0				
Benzo[a]anthracene	1.5532 1.2283	1.2438 1.3069	1.3074	1.2316	1.2729	Ave	1.3063			0.0000	8.7		15.0				
Chrysene	1.5597 1.2058	1.4759 1.1272	1.3919	1.3009	1.2153	Ave	1.3253			0.0000	11.9		15.0				
Benzo[b]fluoranthene	1.0058 1.1221	1.2872 1.1499	1.3036	1.2968	1.3352	Ave	1.2144			0.0000	10.1		15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS SEMI VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-89791-1 Analy Batch No.: 136892

SDG No.: 68089791-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 04/26/2013 10:03 Calibration End Date: 04/26/2013 11:34 Calibration ID: 2919

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Benzo[k]fluoranthene	1.5807 1.2951	1.4811 1.1583	1.6305	1.3756	1.2523	Ave		1.3962			0.0000	12.5		15.0			
Benzo[a]pyrene	1.0264 1.1766	1.1712 1.1154	1.3812	1.3107	1.2749	Ave		1.2081			0.0000	10.1		15.0			
Indeno[1,2,3-cd]pyrene	0.9109 1.1772	1.0019 1.2427	1.2020	1.2085	1.2416	Ave		1.1407			0.0000	11.4		15.0			
Dibenz(a,h)anthracene	0.8117 1.0574	1.0829 1.0146	1.2099	1.1482	1.1048	Ave		1.0613			0.0000	11.9		15.0			
Benzo[g,h,i]perylene	1.1500 1.2201	1.3387 1.2159	1.4017	1.3373	1.2727	Ave		1.2766			0.0000	6.9		15.0			
o-Terphenyl	0.7073 0.5831	0.7372 0.5170	0.7524	0.6639	0.6189	Ave		0.6543			0.0000	13.2		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS SEMI VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa

Job No.: 680-89791-1

Analy Batch No.: 136892

SDG No.: 68089791-1

Instrument ID: BSMA5973

GC Column: DB-5MS

ID: 250 (um)

Heated Purge: (Y/N) N

Calibration Start Date: 04/26/2013 10:03

Calibration End Date: 04/26/2013 11:34

Calibration ID: 2919

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136892/3	1AD26003.D
Level 2	IC 660-136892/4	1AD26004.D
Level 3	IC 660-136892/5	1AD26005.D
Level 4	IC 660-136892/6	1AD26006.D
Level 5	ICIS 660-136892/7	1AD26007.D
Level 6	IC 660-136892/8	1AD26008.D
Level 7	IC 660-136892/9	1AD26009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	11316 1510520	61217 2445644	320082	595222	1158716	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	6318 827941	37078 1310841	193264	341254	669822	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	7562 894050	41731 1398370	216239	376560	706538	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	12402 1556064	68056 2504346	366926	648059	1265667	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	7399 810394	35926 1267057	188346	324917	634267	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	7912 1002855	42211 1599840	226787	405299	807968	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	12552 1299367	56771 2139281	300982	533287	1040972	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	11827 1371502	59817 2186210	320832	579771	1112517	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	10825 1364561	55869 2311786	309273	544612	1091227	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	11742 1591115	61813 2681447	362121	653973	1286350	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	12588 1716784	69806 2760027	387490	693219	1367080	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	13801 1427778	53450 2561817	302918	543586	1149947	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	13859 1401601	63425 2209729	322491	574179	1097962	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	9306 1402018	56273 2501570	315397	597877	1243307	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	14625 1618107	64750 2519945	394484	634191	1166129	0.200 30.0	1.00 50.0	5.00	10.0	20.0

FORM VI  
GC/MS SEMI VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-89791-1 Analy Batch No.: 136892

SDG No.: 68089791-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 04/26/2013 10:03 Calibration End Date: 04/26/2013 11:34 Calibration ID: 2919

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Benzo[a]pyrene	PRY	Ave	9497 1470103	51202 2426657	334183	604286	1187145	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	8428 1470861	43801 2703546	290809	557142	1156108	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	7510 1321140	47341 2207196	292736	529334	1028761	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	10640 1524482	58526 2645132	339141	616524	1185137	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	6384 747046	32378 1190919	177967	310562	600782	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMA5973.i\1A042613.b\1AD26003.D  
 Lab Smp Id: IC-1531396  
 Inj Date : 26-APR-2013 10:03  
 Operator : SCC  
 Smp Info : IC-1531396  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m  
 Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:03 Cal File: 1AD26007.D  
 Als bottle: 3 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
								CAL-AMT	ON-COL
								(ug/ml)	(ug/ml)
* 1 Naphthalene-d8			136	2.578	2.580	(1.000)	2307813	40.0000	
* 6 Acenaphthene-d10			164	3.609	3.606	(1.000)	1048180	40.0000	
* 10 Phenanthrene-d10			188	4.560	4.562	(1.000)	1805166	40.0000	
\$ 14 o-Terphenyl			230	4.859	4.861	(1.066)	6384	0.20000	0.1909
* 18 Chrysene-d12			240	6.579	6.581	(1.000)	1777148	40.0000	
* 23 Perylene-d12			264	7.664	7.666	(1.000)	1850467	40.0000	
2 Naphthalene			128	2.589	2.591	(1.004)	11316	0.20000	0.2368
3 2-Methylnaphthalene			141	2.995	2.997	(1.162)	6318	0.20000	0.2274
4 1-Methylnaphthalene			142	3.048	3.050	(1.182)	7562	0.20000	0.1607
5 Acenaphthylene			152	3.518	3.520	(0.975)	12402	0.20000	0.3039
7 Acenaphthene			154	3.625	3.627	(1.004)	7399	0.20000	0.4114
9 Fluorene			166	3.935	3.942	(1.090)	7912	0.20000	0.4114
11 Phenanthrene			178	4.571	4.578	(1.002)	12552	0.20000	0.1032
12 Anthracene			178	4.603	4.610	(1.009)	11827	0.20000	0.2150
13 Carbazole			167	4.731	4.738	(1.037)	10825	0.20000	0.0501
15 Fluoranthene			202	5.436	5.438	(1.192)	11742	0.20000	0.0685
16 Pyrene			202	5.602	5.604	(0.851)	12588	0.20000	0.1856
17 Benzo(a)anthracene			228	6.569	6.565	(0.998)	13801	0.20000	0.2377
19 Chrysene			228	6.590	6.597	(1.002)	13859	0.20000	0.2353
20 Benzo(b)fluoranthene			252	7.381	7.388	(0.963)	9306	0.20000	0.1656
21 Benzo(k)fluoranthene			252	7.397	7.409	(0.965)	14625	0.20000	0.2264(M)
22 Benzo(a)pyrene			252	7.605	7.612	(0.992)	9497	0.20000	-0.7697(a)
24 Indeno(1,2,3-cd)pyrene			276	8.417	8.430	(1.098)	8428	0.20000	0.3771(M)
25 Dibenzo(a,h)anthracene			278	8.444	8.457	(1.102)	7510	0.20000	0.1529
26 Benzo(g,h,i)perylene			276	8.631	8.654	(1.126)	10640	0.20000	0.1801(M)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Data File: 1AD26003.D

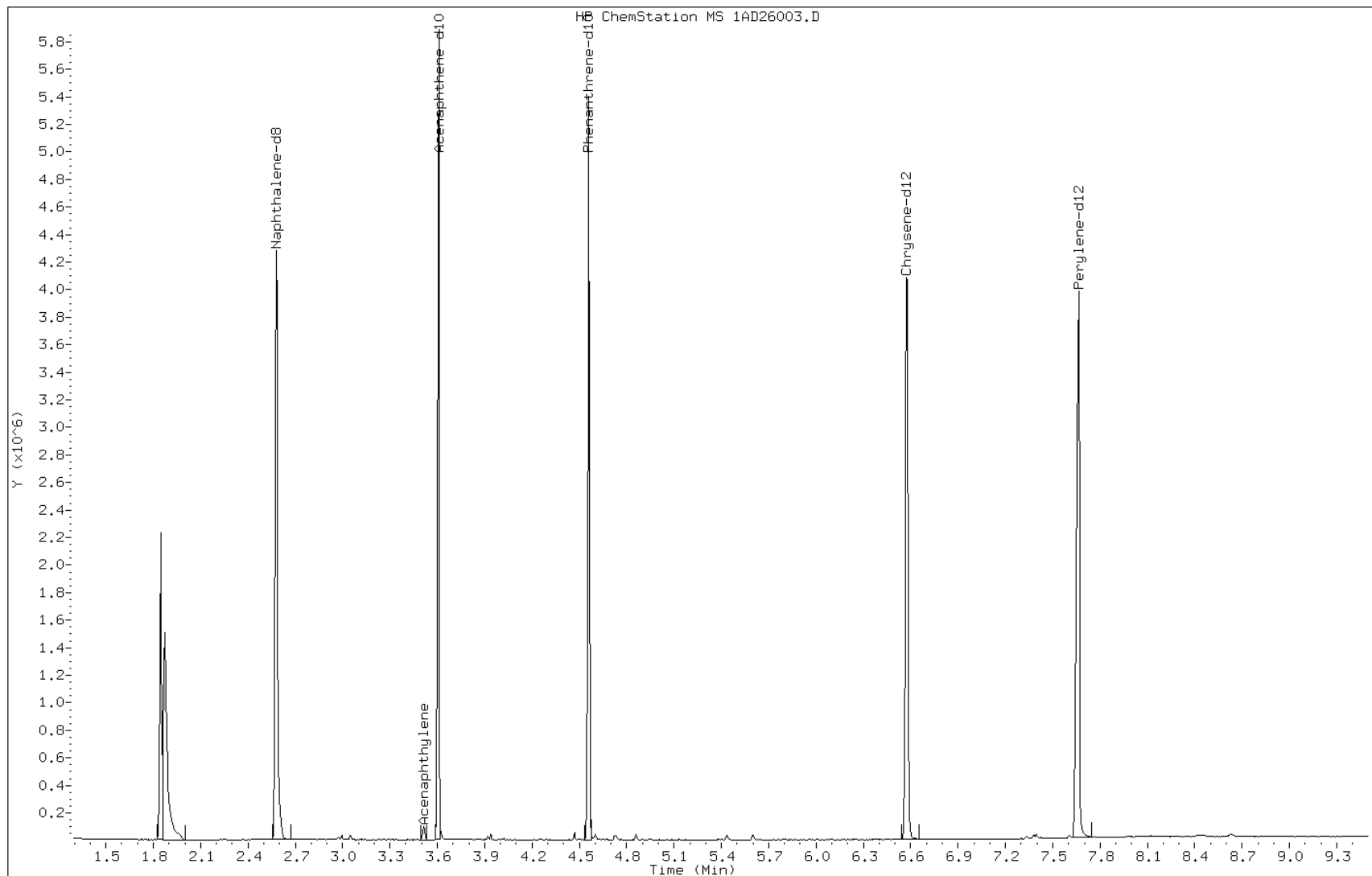
Date: 26-APR-2013 10:03

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531396

Operator: SCC

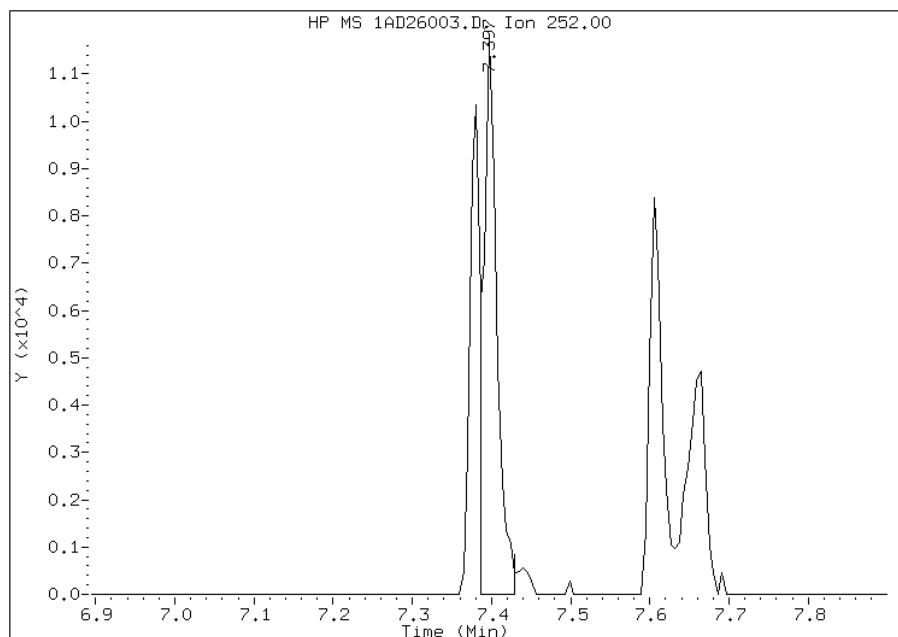


# Manual Integration Report

Data File: 1AD26003.D  
Inj. Date and Time: 26-APR-2013 10:03  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/26/2013

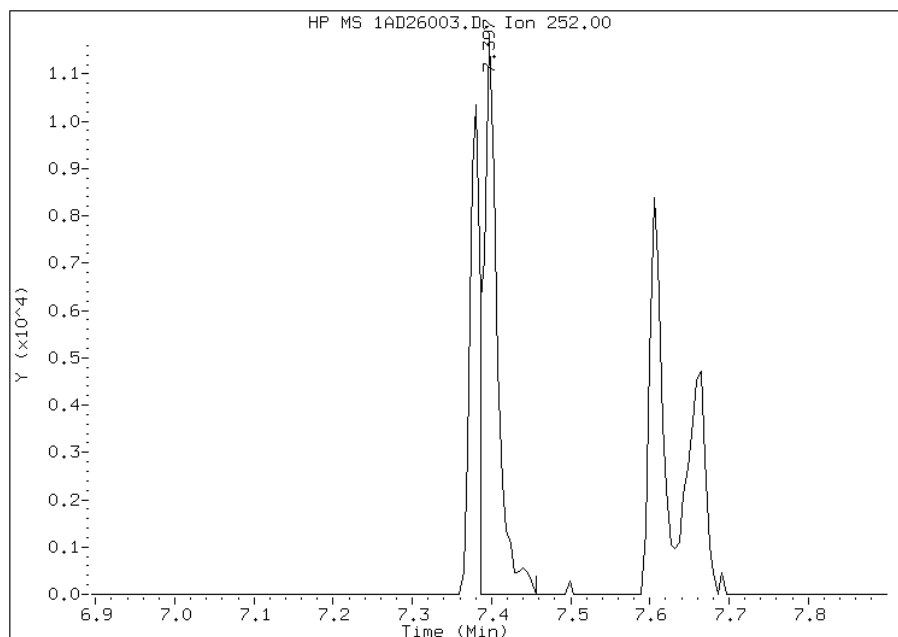
## Processing Integration Results

RT: 7.40  
Response: 14089  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 7.40  
Response: 14625  
Amount: 0  
Conc: 0



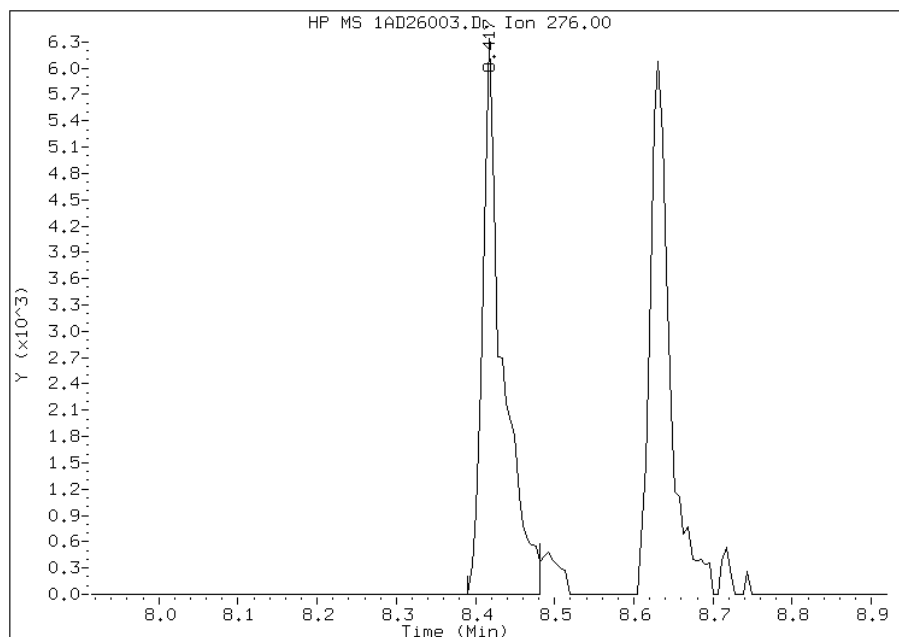
Manually Integrated By: cantins  
Modification Date: 26-Apr-2013 12:57  
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD26003.D  
Inj. Date and Time: 26-APR-2013 10:03  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/26/2013

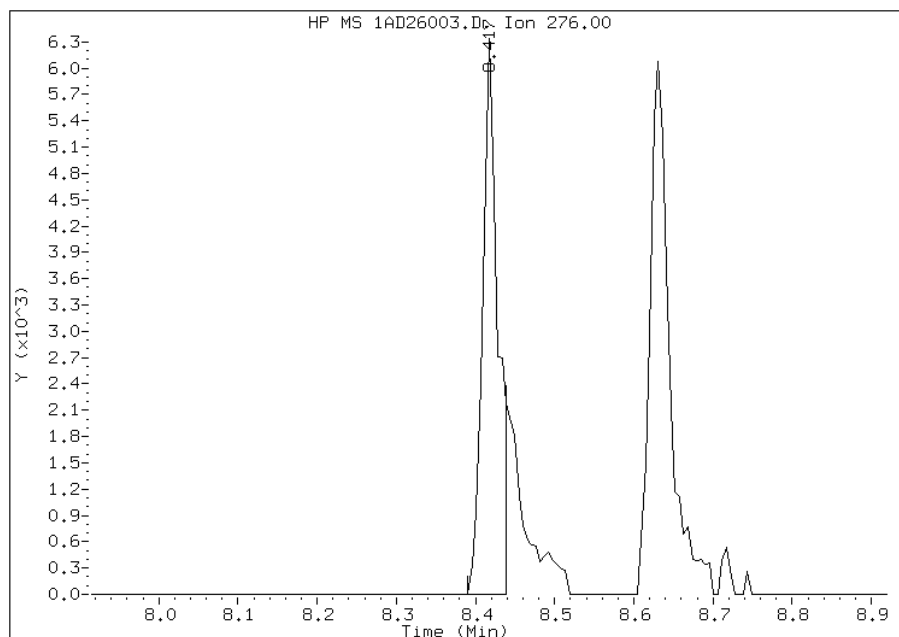
Processing Integration Results

RT: 8.42  
Response: 10930  
Amount: 0  
Conc: 0



Manual Integration Results

RT: 8.42  
Response: 8428  
Amount: 0  
Conc: 0



Manually Integrated By: cantins  
Modification Date: 26-Apr-2013 12:51  
Manual Integration Reason: Split Peak

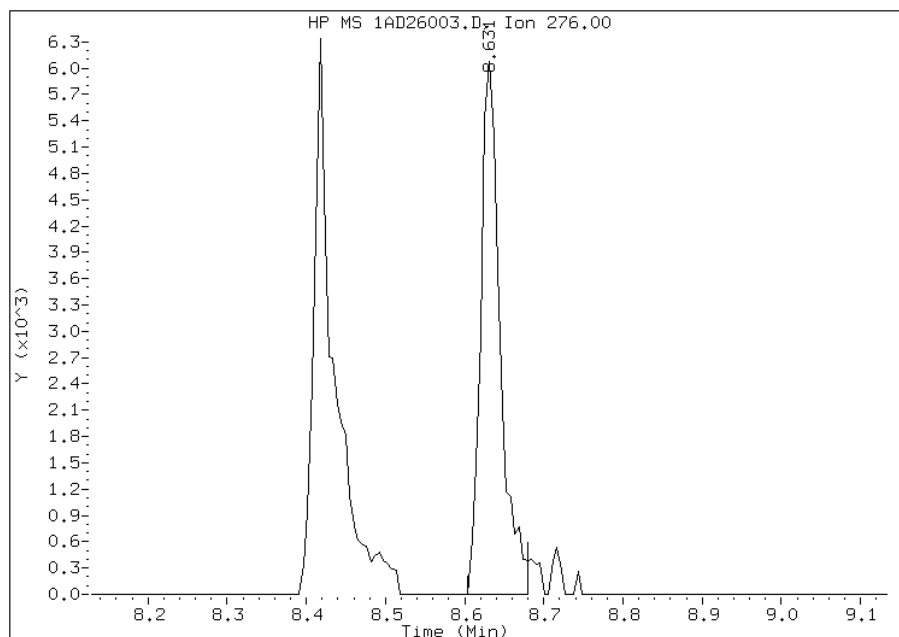


Manual Integration Report

Data File: 1AD26003.D  
Inj. Date and Time: 26-APR-2013 10:03  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/26/2013

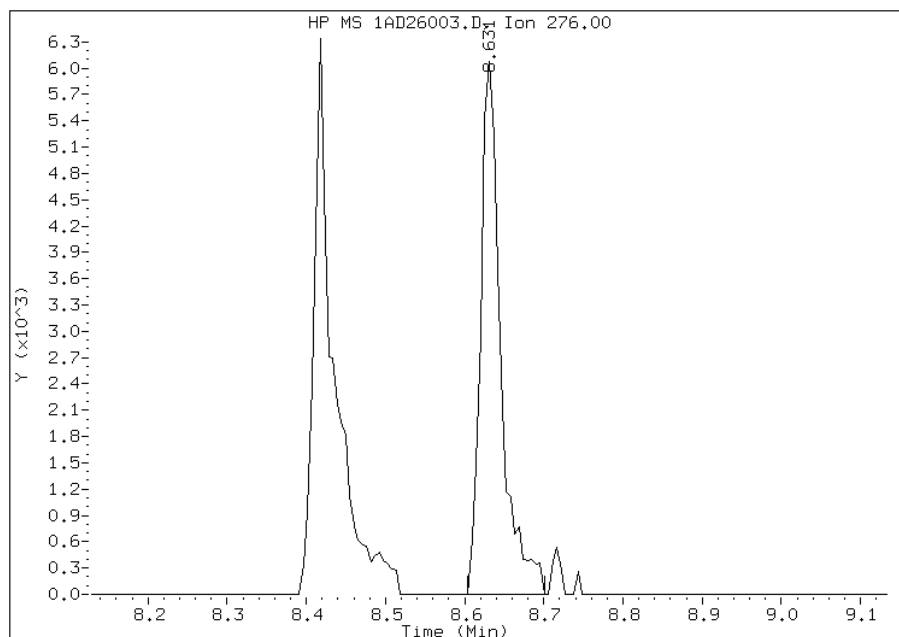
Processing Integration Results

RT: 8.63  
Response: 10297  
Amount: 0  
Conc: 0



Manual Integration Results

RT: 8.63  
Response: 10640  
Amount: 0  
Conc: 0



Manually Integrated By: cantins  
Modification Date: 26-Apr-2013 12:51  
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMA5973.i\1A042613.b\1AD26004.D  
 Lab Smp Id: IC-1531398  
 Inj Date : 26-APR-2013 10:18  
 Operator : SCC  
 Smp Info : IC-1531398  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m  
 Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD  
 Cal Date : 26-APR-2013 10:03 Cal File: 1AD26003.D  
 Als bottle: 4 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.581	2.580	(1.000)	2281622	40.0000	
* 6 Acenaphthene-d10	164	3.607	3.606	(1.000)	1025638	40.0000	
* 10 Phenanthrene-d10	188	4.558	4.562	(1.000)	1756807	40.0000	
\$ 14 o-Terphenyl	230	4.857	4.861	(1.066)	32378	1.00000	0.9805
* 18 Chrysene-d12	240	6.577	6.581	(1.000)	1718926	40.0000	
* 23 Perylene-d12	264	7.656	7.666	(1.000)	1748681	40.0000	
2 Naphthalene	128	2.592	2.591	(1.004)	61217	1.00000	1.0359
3 2-Methylnaphthalene	141	2.993	2.997	(1.159)	37078	1.00000	1.0345
4 1-Methylnaphthalene	142	3.051	3.050	(1.182)	41731	1.00000	0.9917
5 Acenaphthylene	152	3.516	3.520	(0.975)	68056	1.00000	1.0573
7 Acenaphthene	154	3.623	3.627	(1.004)	35926	1.00000	1.1516
9 Fluorene	166	3.938	3.942	(1.092)	42211	1.00000	1.1307
11 Phenanthrene	178	4.574	4.578	(1.004)	56771	1.00000	0.9390
12 Anthracene	178	4.606	4.610	(1.011)	59817	1.00000	0.9961
13 Carbazole	167	4.734	4.738	(1.039)	55869	1.00000	0.9041
15 Fluoranthene	202	5.434	5.438	(1.192)	61813	1.00000	0.8589
16 Pyrene	202	5.600	5.604	(0.851)	69806	1.00000	1.0644
17 Benzo(a)anthracene	228	6.561	6.565	(0.998)	53450	1.00000	0.9521
19 Chrysene	228	6.588	6.597	(1.002)	63425	1.00000	1.1136
20 Benzo(b)fluoranthene	252	7.379	7.388	(0.964)	56273	1.00000	1.0599
21 Benzo(k)fluoranthene	252	7.400	7.409	(0.967)	64750	1.00000	1.0607(M)
22 Benzo(a)pyrene	252	7.603	7.612	(0.993)	51202	1.00000	0.0904
24 Indeno(1,2,3-cd)pyrene	276	8.410	8.430	(1.098)	43801	1.00000	1.0407(M)
25 Dibenzo(a,h)anthracene	278	8.436	8.457	(1.102)	47341	1.00000	1.0203(M)
26 Benzo(g,h,i)perylene	276	8.623	8.654	(1.126)	58526	1.00000	1.0486(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AD26004.D

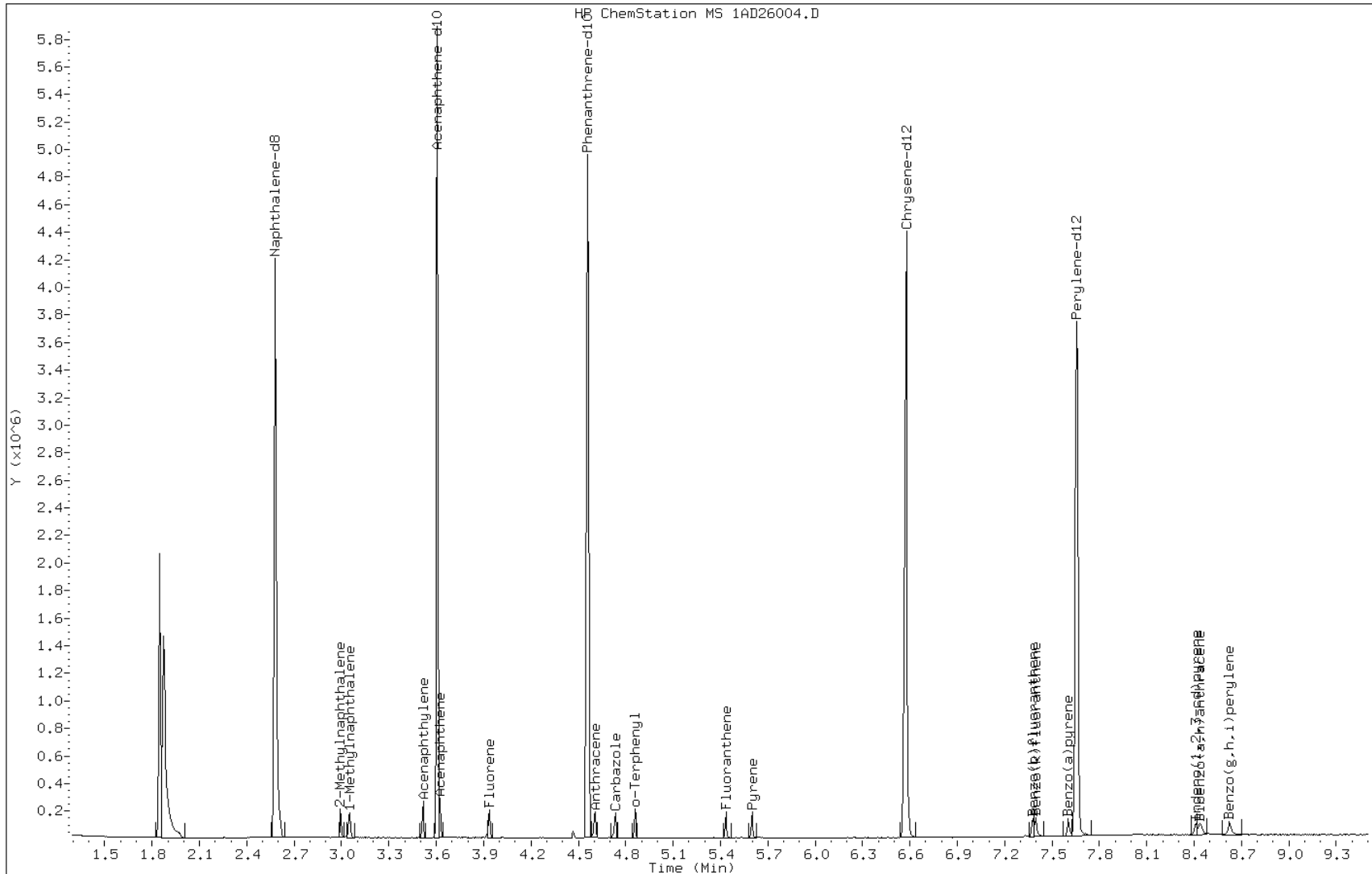
Date: 26-APR-2013 10:18

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531398

Operator: SCC

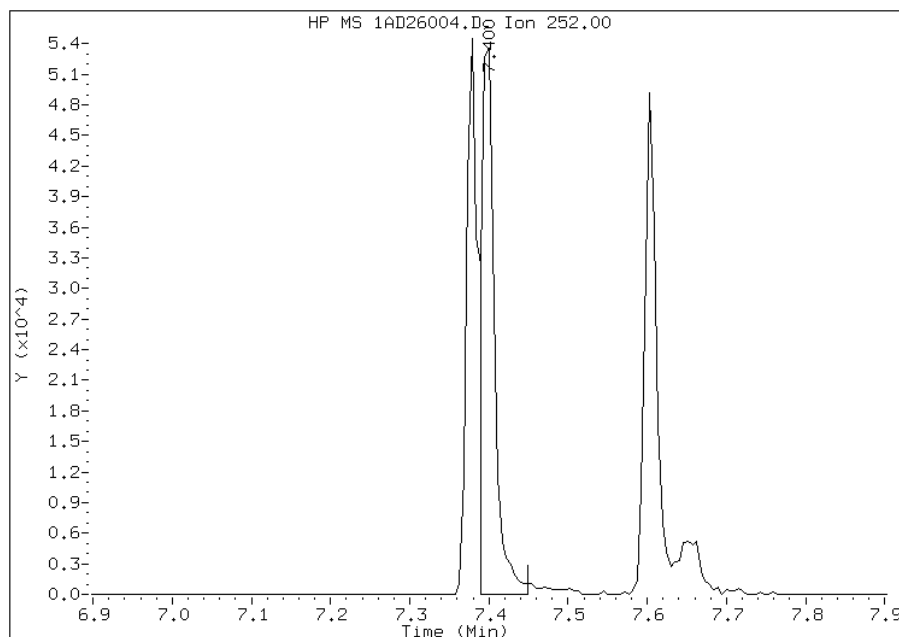


# Manual Integration Report

Data File: 1AD26004.D  
Inj. Date and Time: 26-APR-2013 10:18  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/26/2013

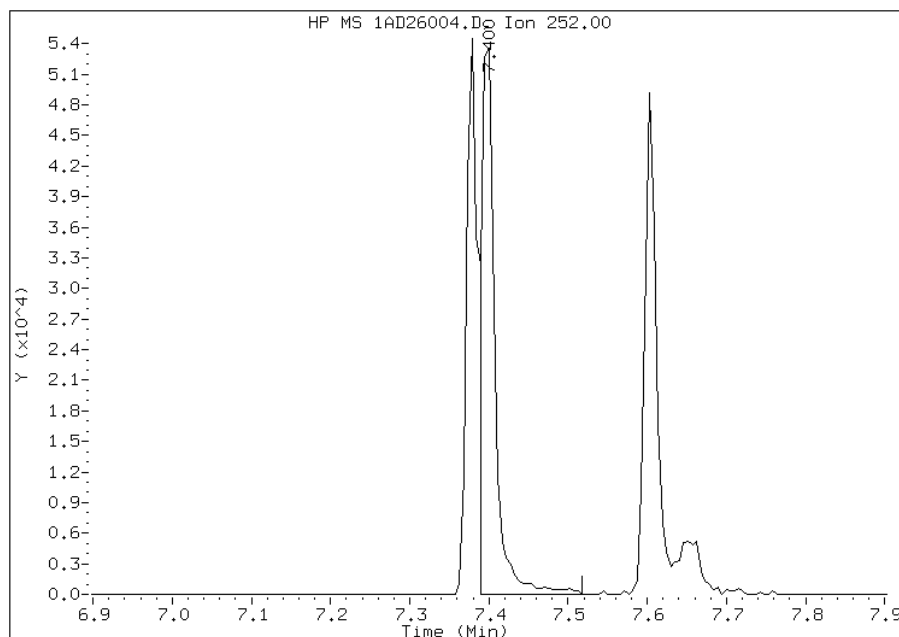
## Processing Integration Results

RT: 7.40  
Response: 62638  
Amount: 1  
Conc: 1



## Manual Integration Results

RT: 7.40  
Response: 64750  
Amount: 1  
Conc: 1



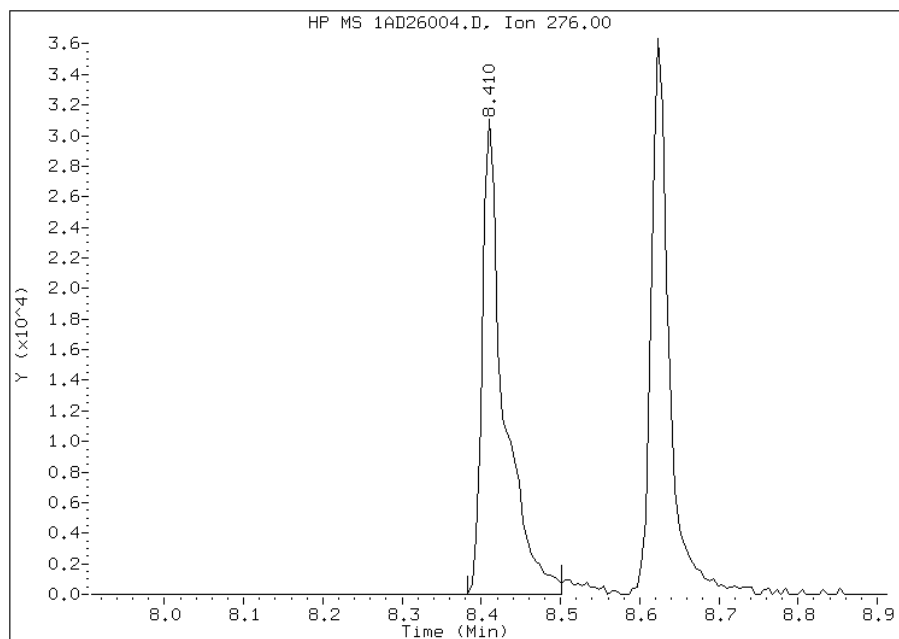
Manually Integrated By: cantins  
Modification Date: 26-Apr-2013 12:51  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AD26004.D  
Inj. Date and Time: 26-APR-2013 10:18  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/26/2013

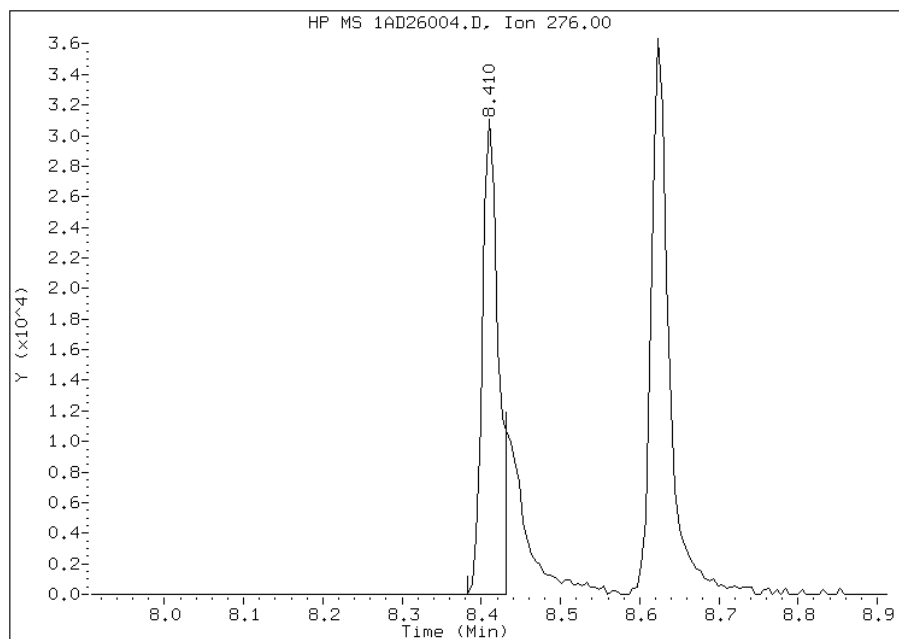
## Processing Integration Results

RT: 8.41  
Response: 58698  
Amount: 1  
Conc: 1



## Manual Integration Results

RT: 8.41  
Response: 43801  
Amount: 1  
Conc: 1



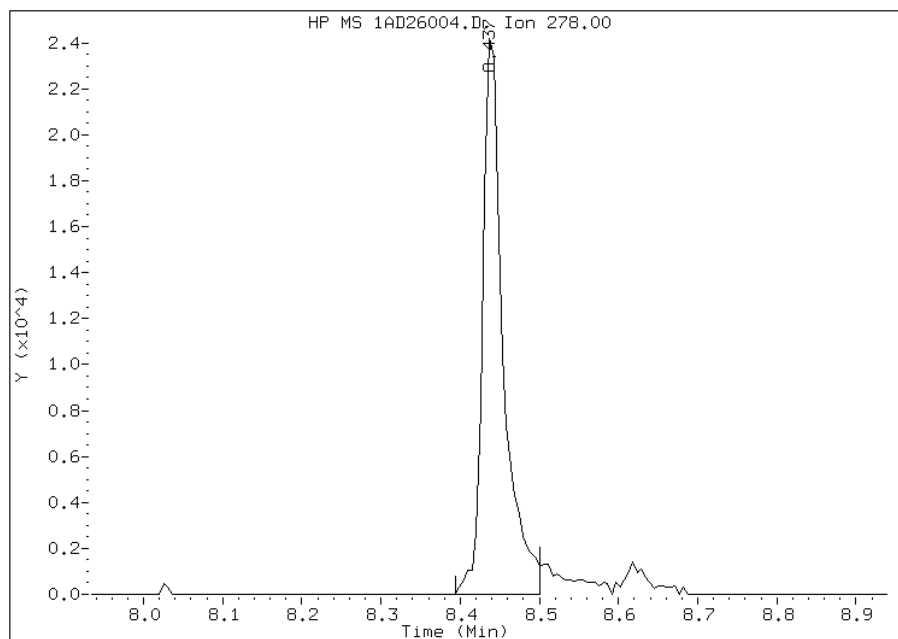
Manually Integrated By: cantins  
Modification Date: 26-Apr-2013 12:52  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AD26004.D  
Inj. Date and Time: 26-APR-2013 10:18  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/26/2013

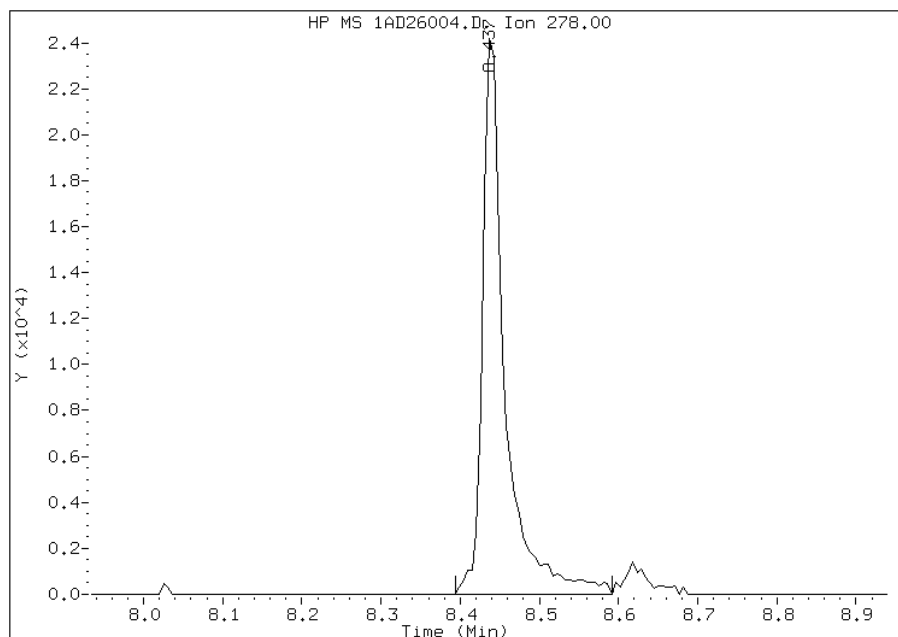
## Processing Integration Results

RT: 8.44  
Response: 43759  
Amount: 1  
Conc: 1



## Manual Integration Results

RT: 8.44  
Response: 47341  
Amount: 1  
Conc: 1



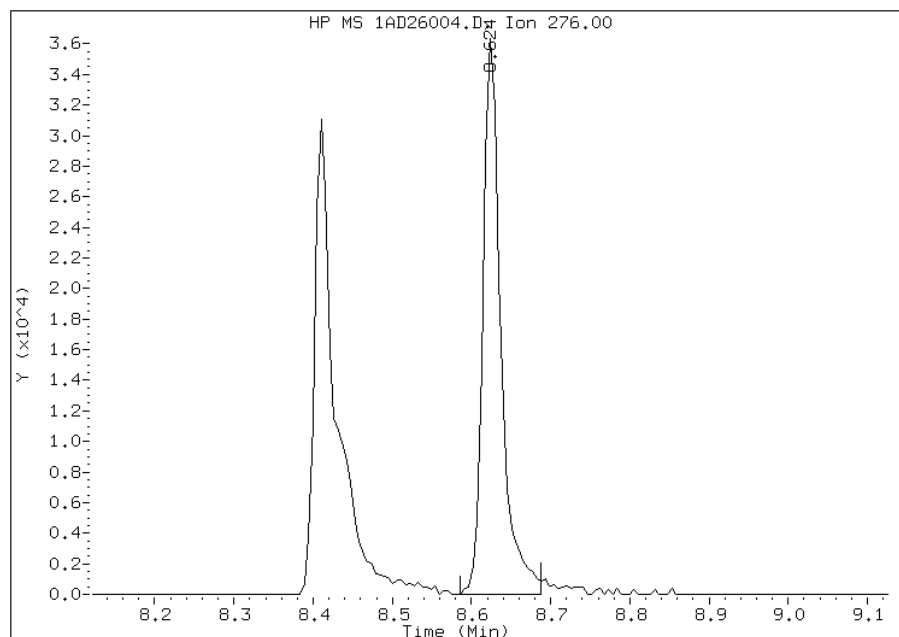
Manually Integrated By: cantins  
Modification Date: 26-Apr-2013 12:52  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AD26004.D  
Inj. Date and Time: 26-APR-2013 10:18  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/26/2013

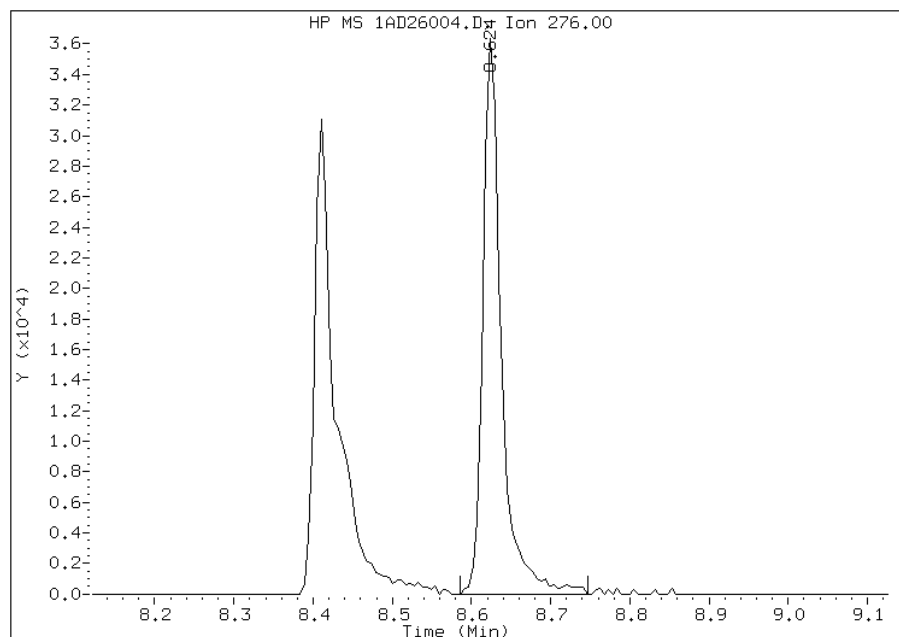
## Processing Integration Results

RT: 8.62  
Response: 56611  
Amount: 1  
Conc: 1



## Manual Integration Results

RT: 8.62  
Response: 58526  
Amount: 1  
Conc: 1



Manually Integrated By: cantins  
Modification Date: 26-Apr-2013 12:52  
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMA5973.i\1A042613.b\1AD26005.D  
 Lab Smp Id: IC-1531399  
 Inj Date : 26-APR-2013 10:33  
 Operator : SCC  
 Smp Info : IC-1531399  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m  
 Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD  
 Cal Date : 26-APR-2013 10:18 Cal File: 1AD26004.D  
 Als bottle: 5 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.576	2.580	(1.000)	2369530	40.0000	
* 6 Acenaphthene-d10	164	3.607	3.606	(1.000)	1090579	40.0000	
* 10 Phenanthrene-d10	188	4.558	4.562	(1.000)	1892246	40.0000	
\$ 14 o-Terphenyl	230	4.862	4.861	(1.067)	177967	5.00000	5.2550
* 18 Chrysene-d12	240	6.577	6.581	(1.000)	1853494	40.0000	
* 23 Perylene-d12	264	7.662	7.666	(1.000)	1935554	40.0000	
2 Naphthalene	128	2.592	2.591	(1.006)	320082	5.00000	5.0894
3 2-Methylnaphthalene	141	2.993	2.997	(1.162)	193264	5.00000	5.1484
4 1-Methylnaphthalene	142	3.051	3.050	(1.185)	216239	5.00000	5.2724
5 Acenaphthylene	152	3.516	3.520	(0.975)	366926	5.00000	5.0915
7 Acenaphthene	154	3.623	3.627	(1.004)	188346	5.00000	5.1131
9 Fluorene	166	3.938	3.942	(1.092)	226787	5.00000	4.9845
11 Phenanthrene	178	4.574	4.578	(1.004)	300982	5.00000	5.2917
12 Anthracene	178	4.606	4.610	(1.011)	320832	5.00000	5.1089
13 Carbazole	167	4.734	4.738	(1.039)	309273	5.00000	5.3789
15 Fluoranthene	202	5.434	5.438	(1.192)	362121	5.00000	5.3053
16 Pyrene	202	5.600	5.604	(0.851)	387490	5.00000	5.4798
17 Benzo(a)anthracene	228	6.566	6.565	(0.998)	302918	5.00000	5.0044
19 Chrysene	228	6.593	6.597	(1.002)	322491	5.00000	5.2515
20 Benzo(b)fluoranthene	252	7.378	7.388	(0.963)	315397	5.00000	5.3673
21 Benzo(k)fluoranthene	252	7.400	7.409	(0.966)	394484	5.00000	5.8388
22 Benzo(a)pyrene	252	7.608	7.612	(0.993)	334183	5.00000	5.1981
24 Indeno(1,2,3-cd)pyrene	276	8.420	8.430	(1.099)	290809	5.00000	5.0945
25 Dibenzo(a,h)anthracene	278	8.447	8.457	(1.102)	292736	5.00000	5.6999(M)
26 Benzo(g,h,i)perylene	276	8.634	8.654	(1.127)	339141	5.00000	5.4899(M)

QC Flag Legend

M - Compound response manually integrated.



Data File: 1AD26005.D

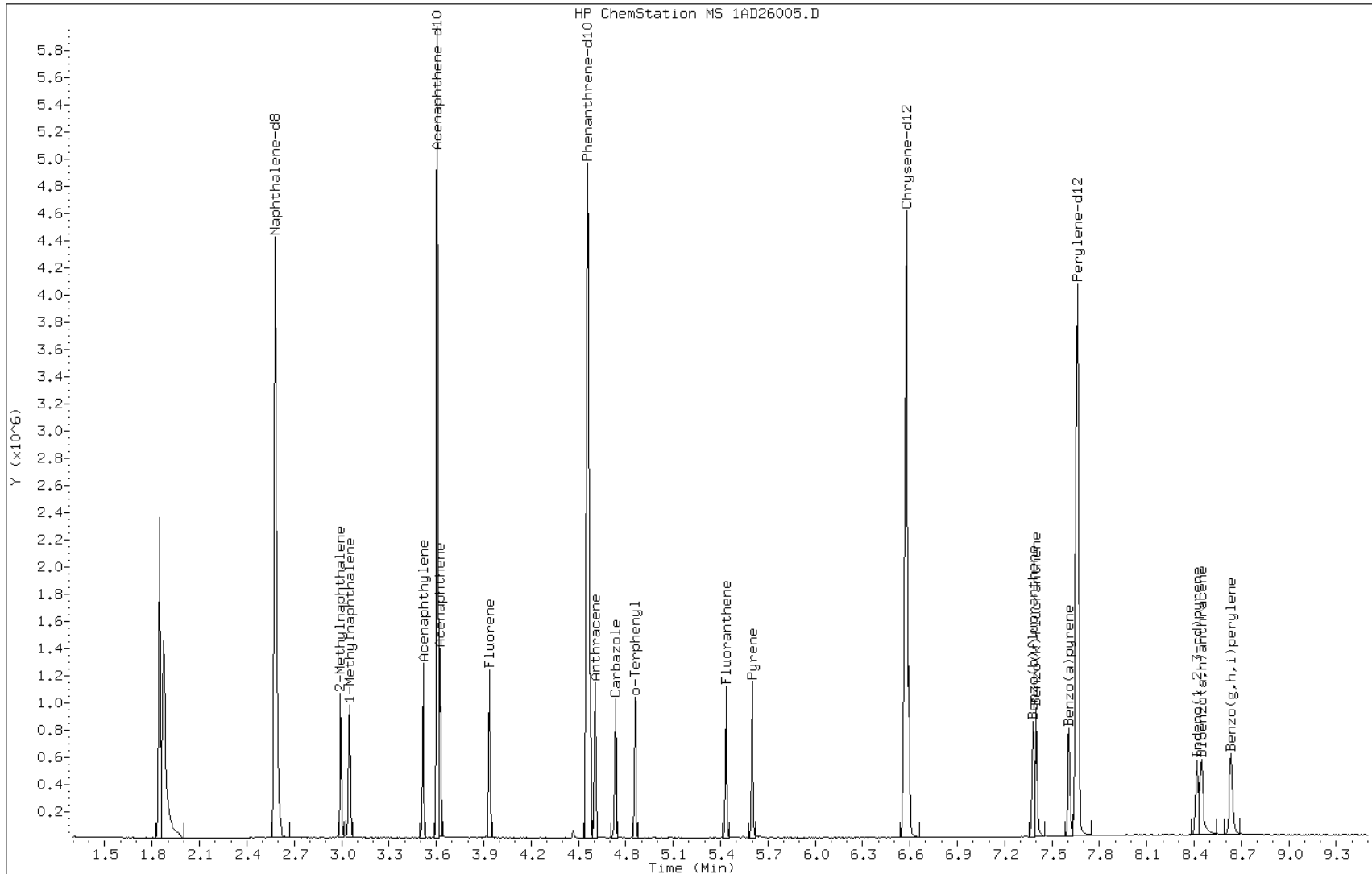
Date: 26-APR-2013 10:33

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531399

Operator: SCC

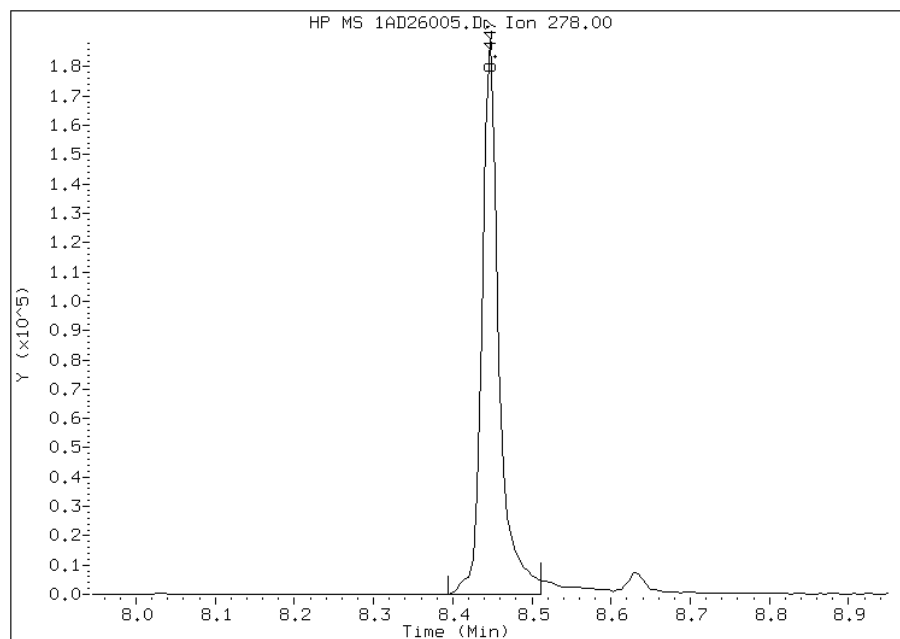


Manual Integration Report

Data File: 1AD26005.D  
Inj. Date and Time: 26-APR-2013 10:33  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/26/2013

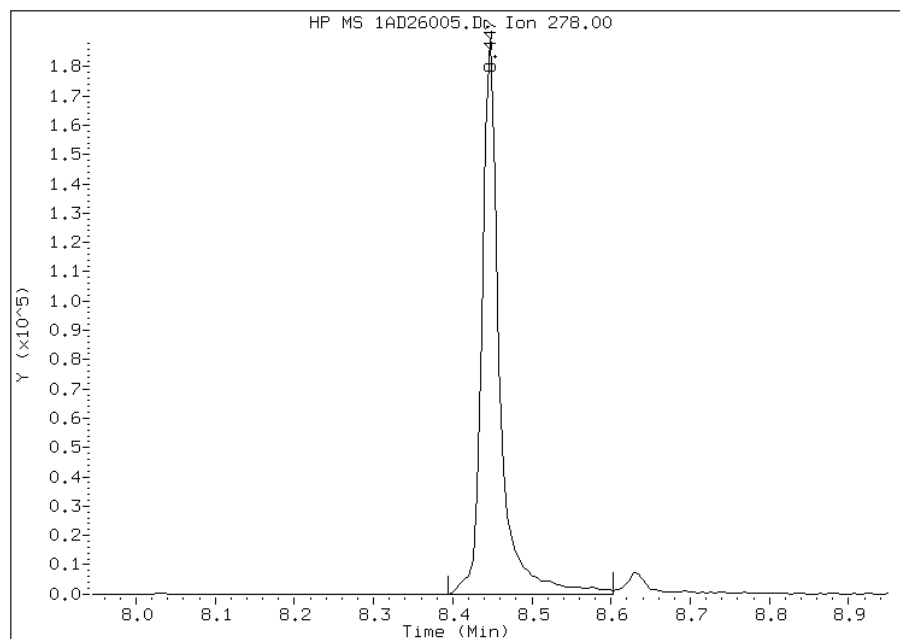
Processing Integration Results

RT: 8.45  
Response: 277866  
Amount: 6  
Conc: 6



Manual Integration Results

RT: 8.45  
Response: 292736  
Amount: 6  
Conc: 6



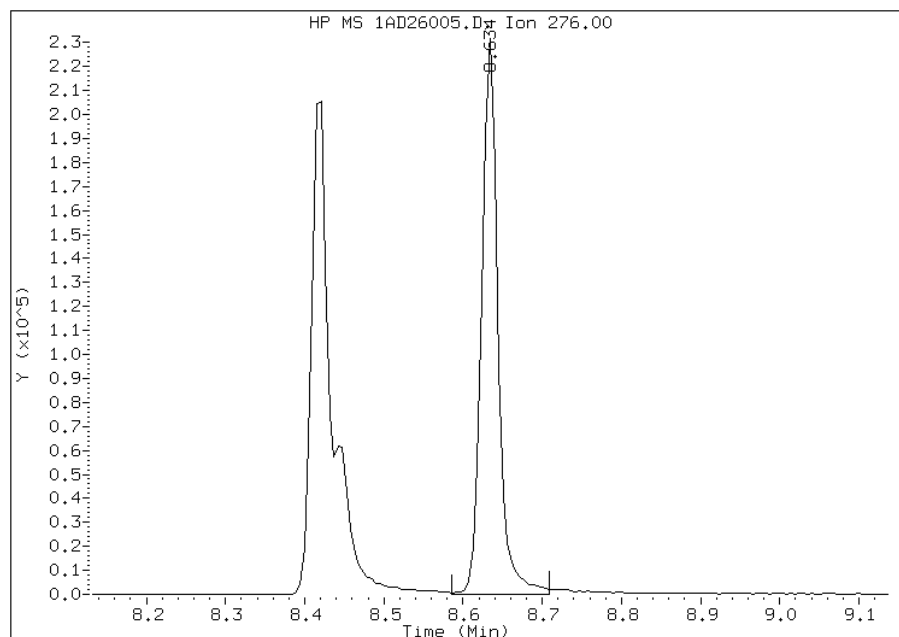
Manually Integrated By: cantins  
Modification Date: 26-Apr-2013 12:53  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AD26005.D  
Inj. Date and Time: 26-APR-2013 10:33  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/26/2013

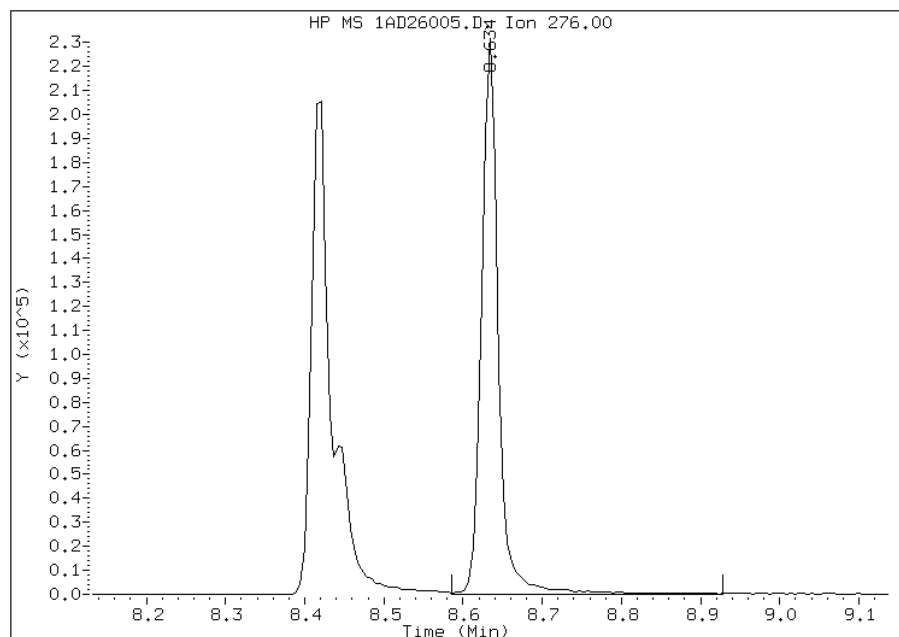
## Processing Integration Results

RT: 8.63  
Response: 328220  
Amount: 5  
Conc: 5



## Manual Integration Results

RT: 8.63  
Response: 339141  
Amount: 5  
Conc: 5



Manually Integrated By: cantins  
Modification Date: 26-Apr-2013 12:53  
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26006.D  
 Lab Smp Id: IC-1531400  
 Inj Date : 26-APR-2013 10:48  
 Operator : SCC  
 Smp Info : IC-1531400  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m  
 Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD  
 Cal Date : 26-APR-2013 10:33 Cal File: 1AD26005.D  
 Als bottle: 6 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.581	2.580	(1.000)	2323692	40.0000	
* 6 Acenaphthene-d10	164	3.606	3.606	(1.000)	1066140	40.0000	
* 10 Phenanthrene-d10	188	4.563	4.562	(1.000)	1871240	40.0000	
\$ 14 o-Terphenyl	230	4.862	4.861	(1.066)	310562	10.0000	9.7321
* 18 Chrysene-d12	240	6.582	6.581	(1.000)	1765506	40.0000	
* 23 Perylene-d12	264	7.661	7.666	(1.000)	1844103	40.0000	
2 Naphthalene	128	2.591	2.591	(1.004)	595222	10.0000	9.8376
3 2-Methylnaphthalene	141	2.997	2.997	(1.161)	341254	10.0000	9.6150
4 1-Methylnaphthalene	142	3.051	3.050	(1.182)	376560	10.0000	9.8086
5 Acenaphthylene	152	3.515	3.520	(0.975)	648059	10.0000	9.6521
7 Acenaphthene	154	3.622	3.627	(1.004)	324917	10.0000	9.4098
9 Fluorene	166	3.937	3.942	(1.092)	405299	10.0000	9.4592
11 Phenanthrene	178	4.573	4.578	(1.002)	533287	10.0000	9.9071
12 Anthracene	178	4.605	4.610	(1.009)	579771	10.0000	9.8285
13 Carbazole	167	4.739	4.738	(1.039)	544612	10.0000	9.9049
15 Fluoranthene	202	5.439	5.438	(1.192)	653973	10.0000	10.0511
16 Pyrene	202	5.604	5.604	(0.851)	693219	10.0000	10.2919
17 Benzo(a)anthracene	228	6.566	6.565	(0.998)	543586	10.0000	9.4280
19 Chrysene	228	6.598	6.597	(1.002)	574179	10.0000	9.8161
20 Benzo(b)fluoranthene	252	7.383	7.388	(0.964)	597877	10.0000	10.6790
21 Benzo(k)fluoranthene	252	7.405	7.409	(0.967)	634191	10.0000	9.8523
22 Benzo(a)pyrene	252	7.608	7.612	(0.993)	604286	10.0000	10.7211
24 Indeno(1,2,3-cd)pyrene	276	8.420	8.430	(1.099)	557142	10.0000	10.0121
25 Dibenzo(a,h)anthracene	278	8.446	8.457	(1.103)	529334	10.0000	10.8180(M)
26 Benzo(g,h,i)perylene	276	8.639	8.654	(1.128)	616524	10.0000	10.4750(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AD26006.D

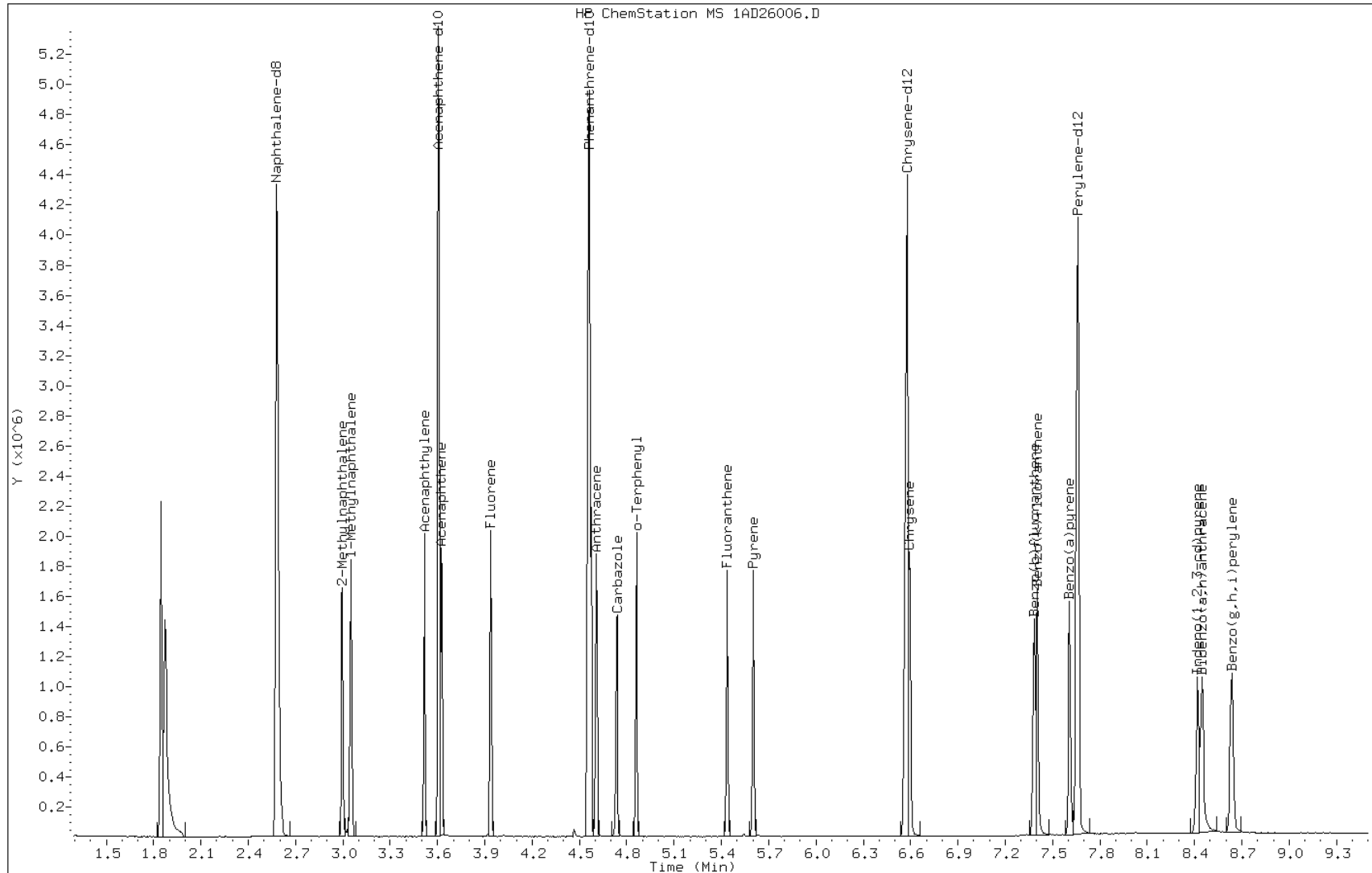
Date: 26-APR-2013 10:48

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531400

Operator: SCC

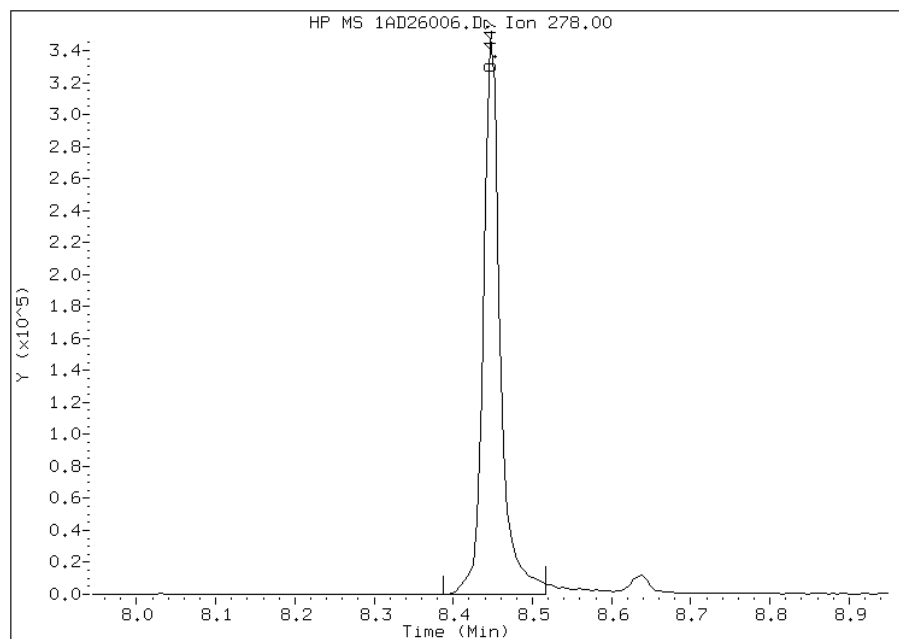


# Manual Integration Report

Data File: 1AD26006.D  
Inj. Date and Time: 26-APR-2013 10:48  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/26/2013

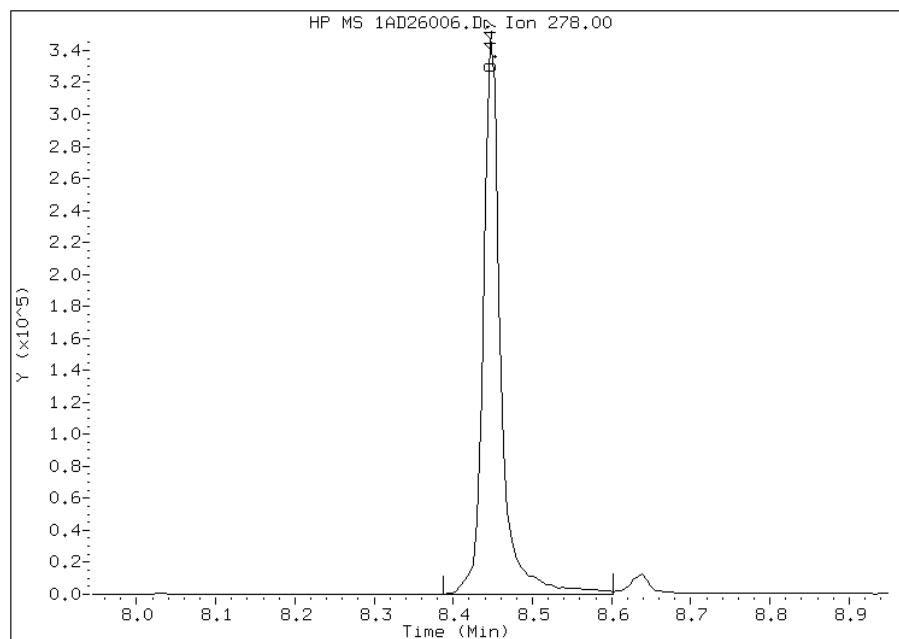
## Processing Integration Results

RT: 8.45  
Response: 511528  
Amount: 11  
Conc: 11



## Manual Integration Results

RT: 8.45  
Response: 529334  
Amount: 11  
Conc: 11



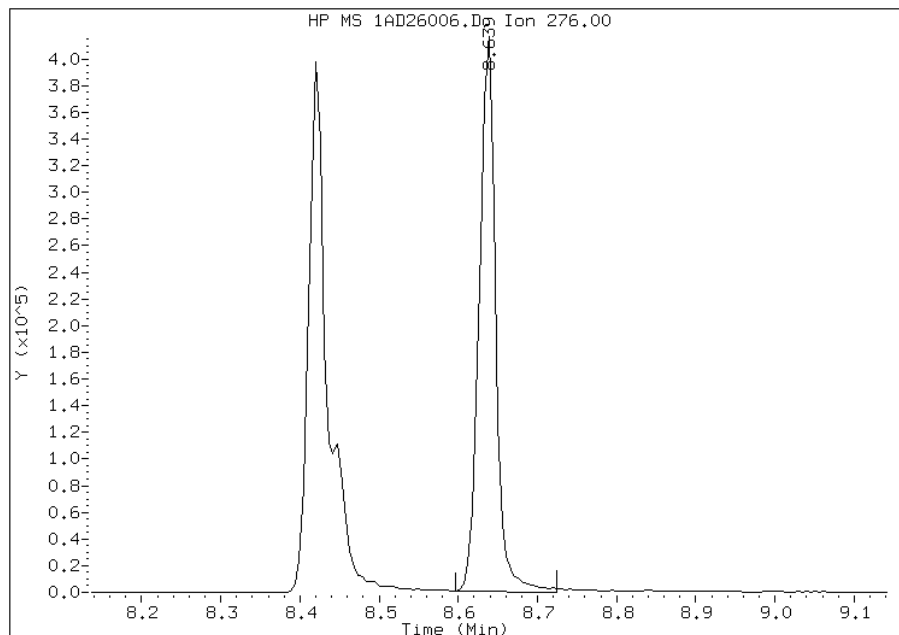
Manually Integrated By: cantins  
Modification Date: 26-Apr-2013 12:54  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AD26006.D  
Inj. Date and Time: 26-APR-2013 10:48  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/26/2013

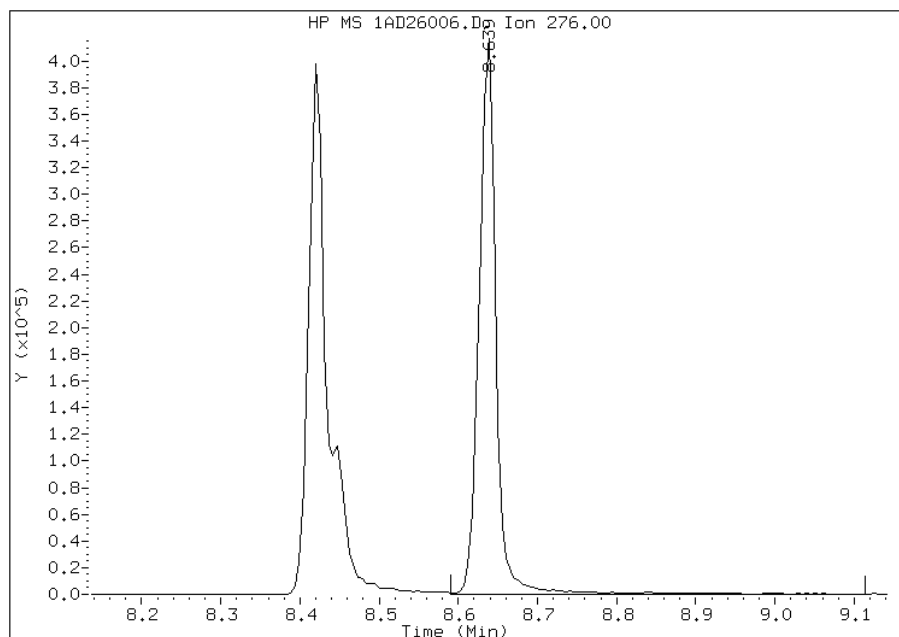
## Processing Integration Results

RT: 8.64  
Response: 592263  
Amount: 10  
Conc: 10



## Manual Integration Results

RT: 8.64  
Response: 616524  
Amount: 10  
Conc: 10



Manually Integrated By: cantins  
Modification Date: 26-Apr-2013 12:54  
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMA5973.i\1A042613.b\1AD26007.D  
 Lab Smp Id: ICIS-1531401  
 Inj Date : 26-APR-2013 11:03  
 Operator : SCC  
 Smp Info : ICIS-1531401  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m  
 Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD  
 Cal Date : 26-APR-2013 10:48 Cal File: 1AD26006.D  
 Als bottle: 7 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.580	2.580	(1.000)	2358748	40.0000	
* 6 Acenaphthene-d10	164	3.606	3.606	(1.000)	1131055	40.0000	
* 10 Phenanthrene-d10	188	4.562	4.562	(1.000)	1941405	40.0000	
\$ 14 o-Terphenyl	230	4.861	4.861	(1.066)	600782	20.0000	19.8656
* 18 Chrysene-d12	240	6.581	6.581	(1.000)	1806882	40.0000	
* 23 Perylene-d12	264	7.666	7.666	(1.000)	1862358	40.0000	
2 Naphthalene	128	2.591	2.591	(1.004)	1158716	20.0000	19.7046
3 2-Methylnaphthalene	141	2.997	2.997	(1.161)	669822	20.0000	20.1454
4 1-Methylnaphthalene	142	3.050	3.050	(1.182)	706538	20.0000	19.6964
5 Acenaphthylene	152	3.520	3.520	(0.976)	1265667	20.0000	19.6212
7 Acenaphthene	154	3.627	3.627	(1.006)	634267	20.0000	19.1257
9 Fluorene	166	3.942	3.942	(1.093)	807968	20.0000	19.5803
11 Phenanthrene	178	4.578	4.578	(1.004)	1040972	20.0000	19.9793
12 Anthracene	178	4.610	4.610	(1.011)	1112517	20.0000	19.9518
13 Carbazole	167	4.738	4.738	(1.039)	1091227	20.0000	20.1348
15 Fluoranthene	202	5.438	5.438	(1.192)	1286350	20.0000	20.1741
16 Pyrene	202	5.604	5.604	(0.851)	1367080	20.0000	19.8317
17 Benzo(a)anthracene	228	6.565	6.565	(0.998)	1149947	20.0000	19.4881
19 Chrysene	228	6.597	6.597	(1.002)	1097962	20.0000	18.3408(M)
20 Benzo(b)fluoranthene	252	7.388	7.388	(0.964)	1243307	20.0000	21.9898
21 Benzo(k)fluoranthene	252	7.409	7.409	(0.967)	1166129	20.0000	17.9385
22 Benzo(a)pyrene	252	7.612	7.612	(0.993)	1187145	20.0000	21.7561
24 Indeno(1,2,3-cd)pyrene	276	8.430	8.430	(1.100)	1156108	20.0000	20.3300
25 Dibenzo(a,h)anthracene	278	8.457	8.457	(1.103)	1028761	20.0000	20.8187
26 Benzo(g,h,i)perylene	276	8.654	8.654	(1.129)	1185137	20.0000	19.9387

QC Flag Legend

M - Compound response manually integrated.



Data File: 1AD26007.D

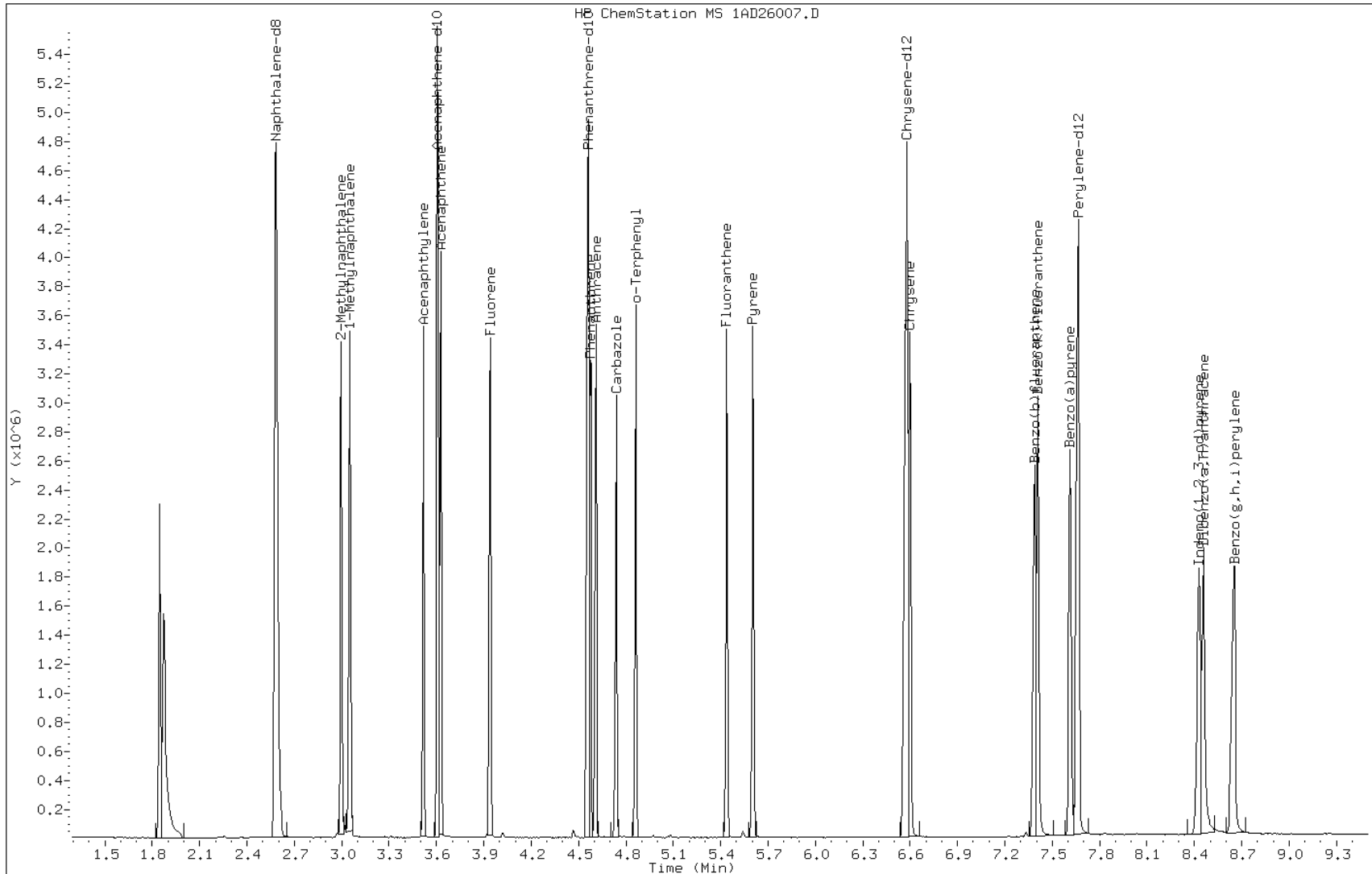
Date: 26-APR-2013 11:03

Client ID:

Instrument: BSMA5973.i

Sample Info: ICIS-1531401

Operator: SCC

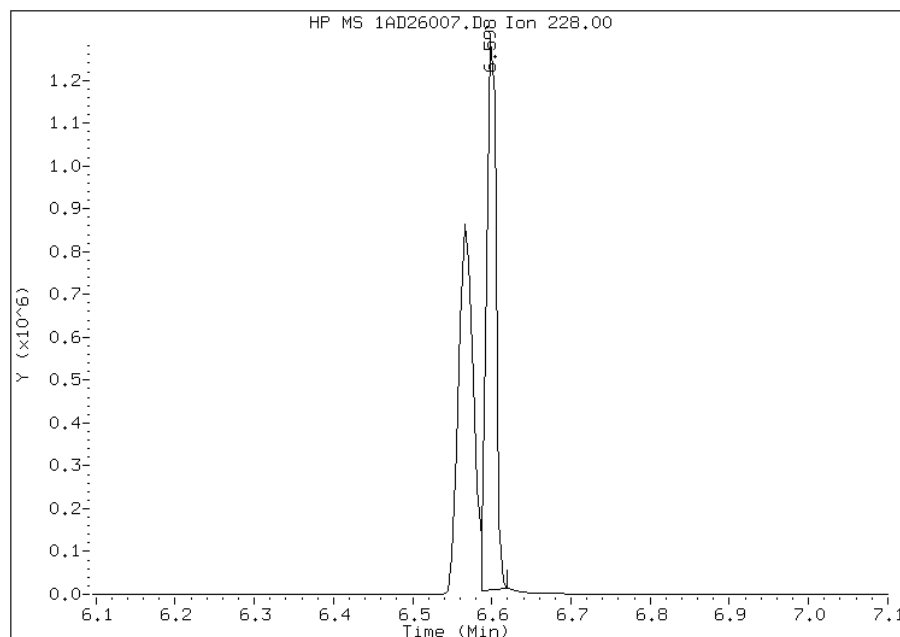


Manual Integration Report

Data File: 1AD26007.D  
Inj. Date and Time: 26-APR-2013 11:03  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 19 Chrysene  
CAS #: 218-01-9  
Report Date: 04/26/2013

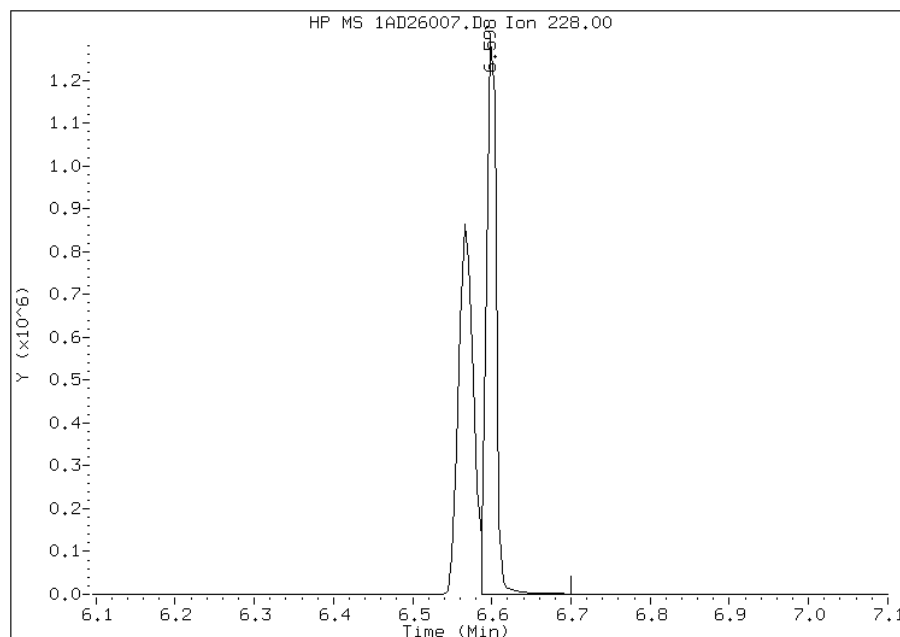
Processing Integration Results

RT: 6.60  
Response: 1056771  
Amount: 17  
Conc: 17



Manual Integration Results

RT: 6.60  
Response: 1097962  
Amount: 18  
Conc: 18



Manually Integrated By: cantins  
Modification Date: 26-Apr-2013 12:58  
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26008.D  
 Lab Smp Id: IC-1531402  
 Inj Date : 26-APR-2013 11:19  
 Operator : SCC  
 Smp Info : IC-1531402  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m  
 Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:03 Cal File: 1AD26007.D  
 Als bottle: 8 Calibration Sample, Level: 6  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.578	2.580	(1.000)	2081137	40.0000	
* 6 Acenaphthene-d10	164	3.609	3.606	(1.000)	971255	40.0000	
* 10 Phenanthrene-d10	188	4.560	4.562	(1.000)	1708155	40.0000	
\$ 14 o-Terphenyl	230	4.864	4.861	(1.067)	747046	30.0000	30.2447
* 18 Chrysene-d12	240	6.584	6.581	(1.000)	1549882	40.0000	
* 23 Perylene-d12	264	7.663	7.666	(1.000)	1665910	40.0000	
2 Naphthalene	128	2.594	2.591	(1.006)	1510520	30.0000	30.4015
3 2-Methylnaphthalene	141	2.994	2.997	(1.162)	827941	30.0000	30.0747
4 1-Methylnaphthalene	142	3.053	3.050	(1.184)	894050	30.0000	30.3598
5 Acenaphthylene	152	3.518	3.520	(0.975)	1556064	30.0000	30.6998
7 Acenaphthene	154	3.625	3.627	(1.004)	810394	30.0000	31.5304
9 Fluorene	166	3.940	3.942	(1.092)	1002855	30.0000	30.9795
11 Phenanthrene	178	4.576	4.578	(1.004)	1299367	30.0000	29.9559
12 Anthracene	178	4.613	4.610	(1.012)	1371502	30.0000	30.1453
13 Carbazole	167	4.741	4.738	(1.040)	1364561	30.0000	29.7567
15 Fluoranthene	202	5.441	5.438	(1.193)	1591115	30.0000	29.6375
16 Pyrene	202	5.607	5.604	(0.852)	1716784	30.0000	29.0345
17 Benzo(a)anthracene	228	6.568	6.565	(0.998)	1427778	30.0000	28.2088
19 Chrysene	228	6.600	6.597	(1.002)	1401601	30.0000	27.2953(M)
20 Benzo(b)fluoranthene	252	7.391	7.388	(0.964)	1402018	30.0000	27.7209
21 Benzo(k)fluoranthene	252	7.412	7.409	(0.967)	1618107	30.0000	27.8265
22 Benzo(a)pyrene	252	7.615	7.612	(0.994)	1470103	30.0000	30.4849
24 Indeno(1,2,3-cd)pyrene	276	8.427	8.430	(1.100)	1470861	30.0000	28.8179
25 Dibenzo(a,h)anthracene	278	8.459	8.457	(1.104)	1321140	30.0000	29.8882
26 Benzo(g,h,i)perylene	276	8.652	8.654	(1.129)	1524482	30.0000	28.6723

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AD26008.D

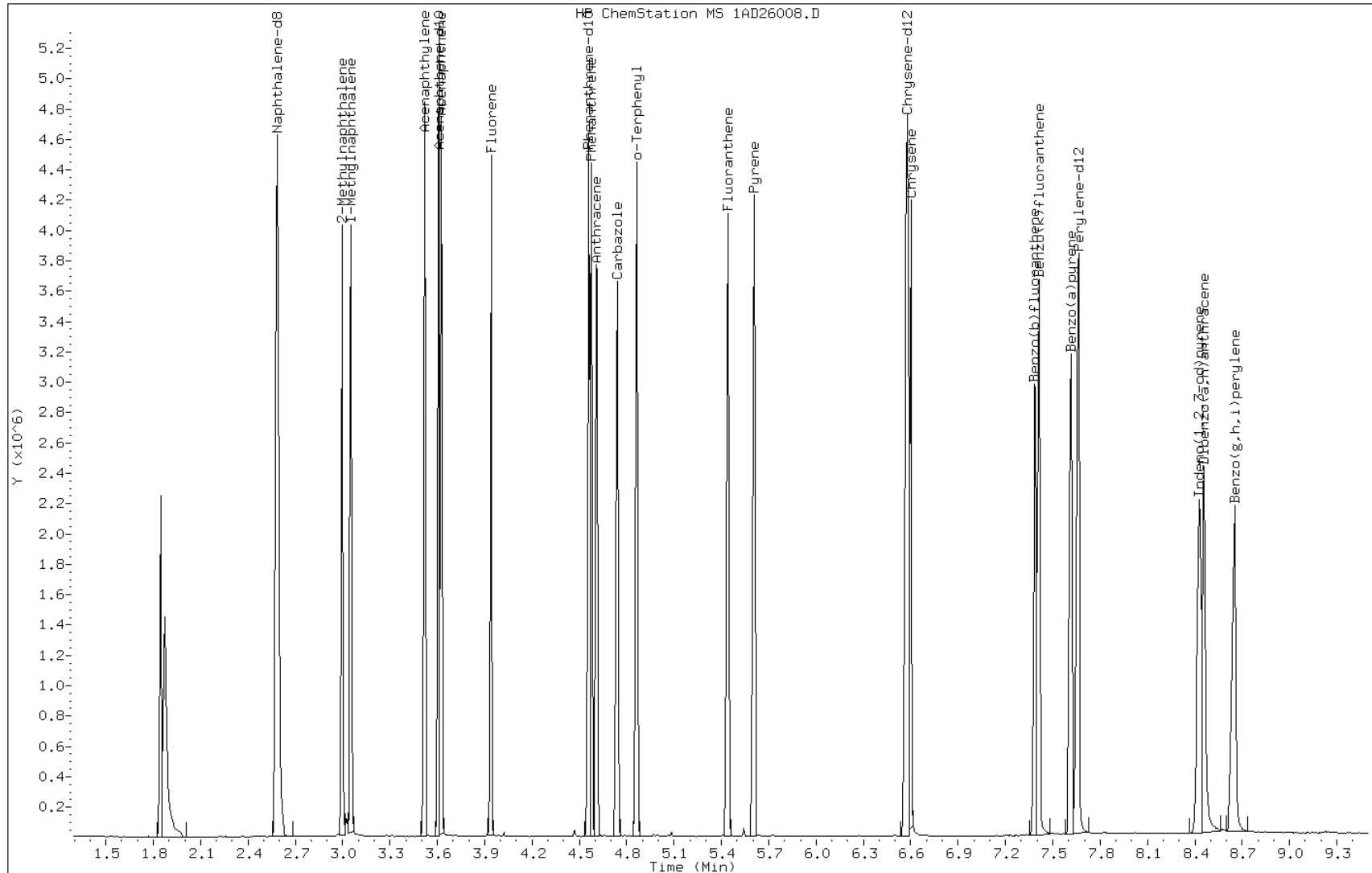
Date: 26-APR-2013 11:19

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531402

Operator: SCC

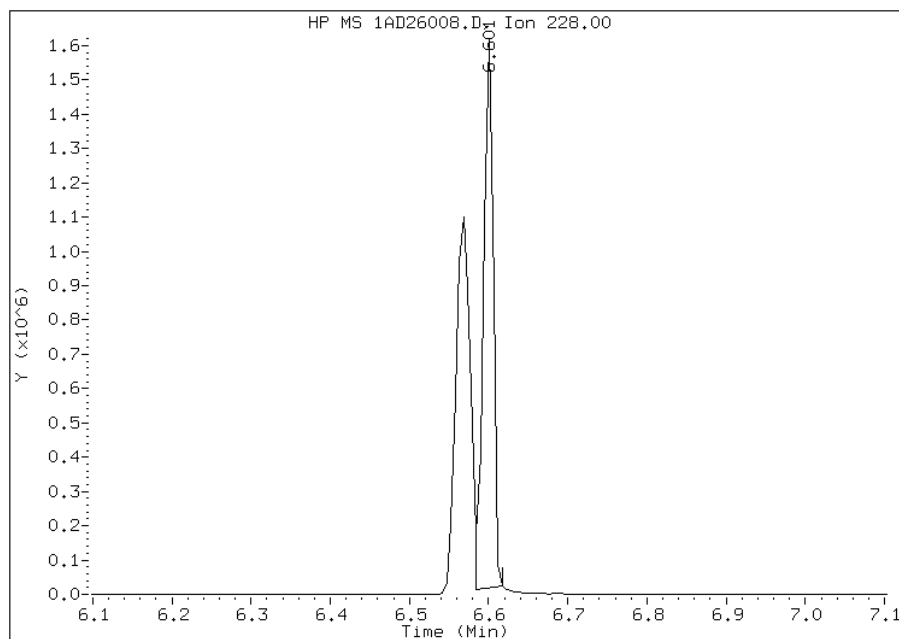


# Manual Integration Report

Data File: 1AD26008.D  
Inj. Date and Time: 26-APR-2013 11:19  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 19 Chrysene  
CAS #: 218-01-9  
Report Date: 04/26/2013

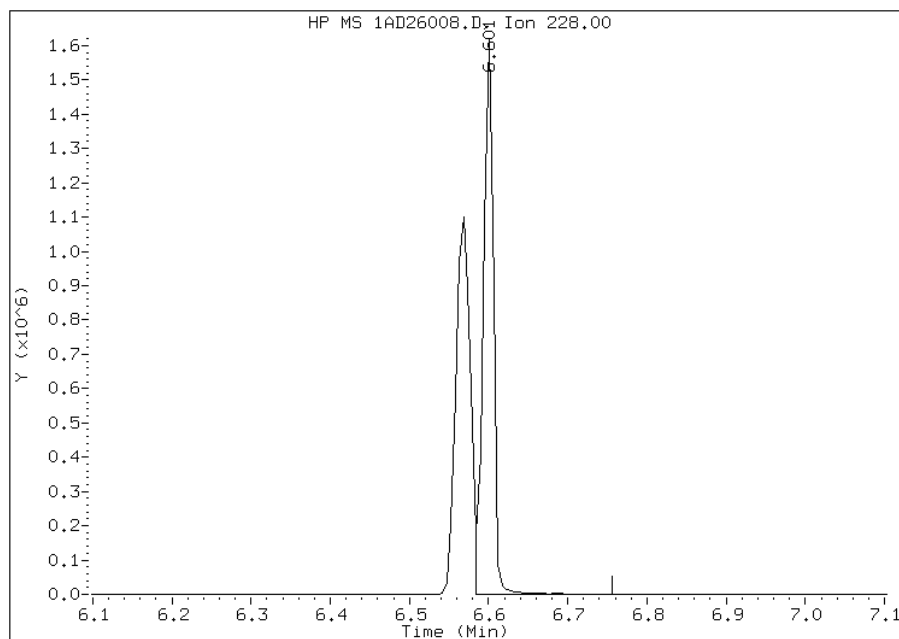
## Processing Integration Results

RT: 6.60  
Response: 1330257  
Amount: 26  
Conc: 26



## Manual Integration Results

RT: 6.60  
Response: 1401601  
Amount: 27  
Conc: 27



Manually Integrated By: cantins  
Modification Date: 26-Apr-2013 12:56  
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26009.D  
 Lab Smp Id: IC-1531403  
 Inj Date : 26-APR-2013 11:34  
 Operator : SCC  
 Smp Info : IC-1531403  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m  
 Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:19 Cal File: 1AD26008.D  
 Als bottle: 9 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)
* 1 Naphthalene-d8	136	2.581	2.580	(1.000)	2198265	40.0000	
* 6 Acenaphthene-d10	164	3.607	3.606	(1.000)	1085200	40.0000	
* 10 Phenanthrene-d10	188	4.563	4.562	(1.000)	1842852	40.0000	
\$ 14 o-Terphenyl	230	4.868	4.861	(1.067)	1190919	50.0000	49.9310
* 18 Chrysene-d12	240	6.588	6.581	(1.000)	1568229	40.0000	
* 23 Perylene-d12	264	7.667	7.666	(1.000)	1740423	40.0000	
2 Naphthalene	128	2.592	2.591	(1.004)	2445644	50.0000	49.8939
3 2-Methylnaphthalene	141	2.998	2.997	(1.161)	1310841	50.0000	49.9542
4 1-Methylnaphthalene	142	3.057	3.050	(1.184)	1398370	50.0000	49.9099
5 Acenaphthylene	152	3.521	3.520	(0.976)	2504346	50.0000	49.7738
7 Acenaphthene	154	3.628	3.627	(1.006)	1267057	50.0000	49.4576
9 Fluorene	166	3.943	3.942	(1.093)	1599840	50.0000	49.6541
11 Phenanthrene	178	4.579	4.578	(1.004)	2139281	50.0000	50.0234(A)
12 Anthracene	178	4.617	4.610	(1.012)	2186210	50.0000	49.9541
13 Carbazole	167	4.745	4.738	(1.040)	2311786	50.0000	50.0703(A)
15 Fluoranthene	202	5.450	5.438	(1.194)	2681447	50.0000	50.1042(A)
16 Pyrene	202	5.616	5.604	(0.852)	2760027	50.0000	46.1318
17 Benzo(a)anthracene	228	6.572	6.565	(0.998)	2561817	50.0000	50.0220(A)
19 Chrysene	228	6.609	6.597	(1.003)	2209729	50.0000	42.5296(M)
20 Benzo(b)fluoranthene	252	7.394	7.388	(0.964)	2501570	50.0000	47.3439
21 Benzo(k)fluoranthene	252	7.421	7.409	(0.968)	2519945	50.0000	41.4801(M)
22 Benzo(a)pyrene	252	7.624	7.612	(0.994)	2426657	50.0000	48.7188
24 Indeno(1,2,3-cd)pyrene	276	8.442	8.430	(1.101)	2703546	50.0000	50.5272(A)
25 Dibenzo(a,h)anthracene	278	8.474	8.457	(1.105)	2207196	50.0000	47.7957
26 Benzo(g,h,i)perylene	276	8.671	8.654	(1.131)	2645132	50.0000	47.6194

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

Data File: 1AD26009.D

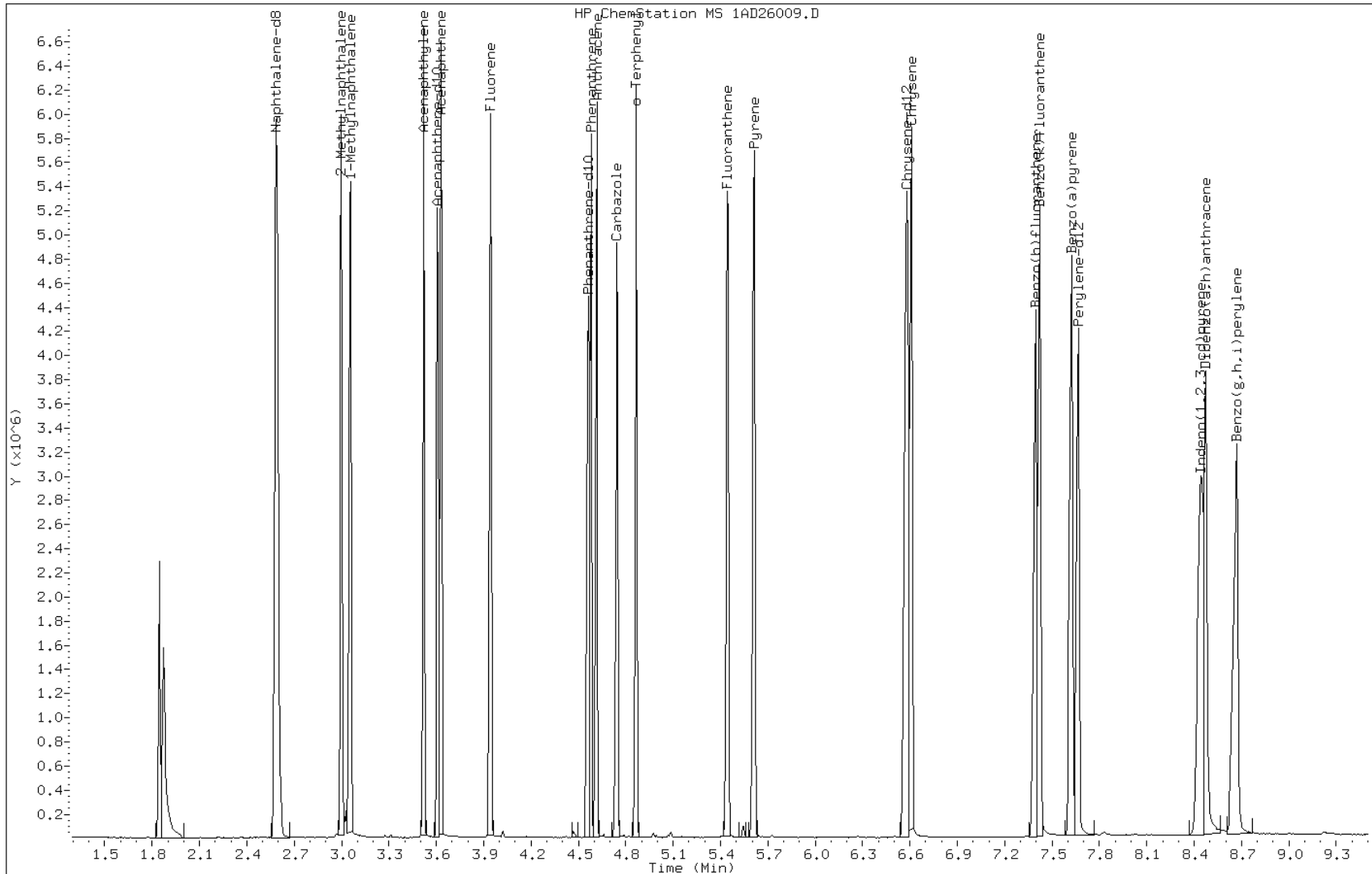
Date: 26-APR-2013 11:34

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531403

Operator: SCC

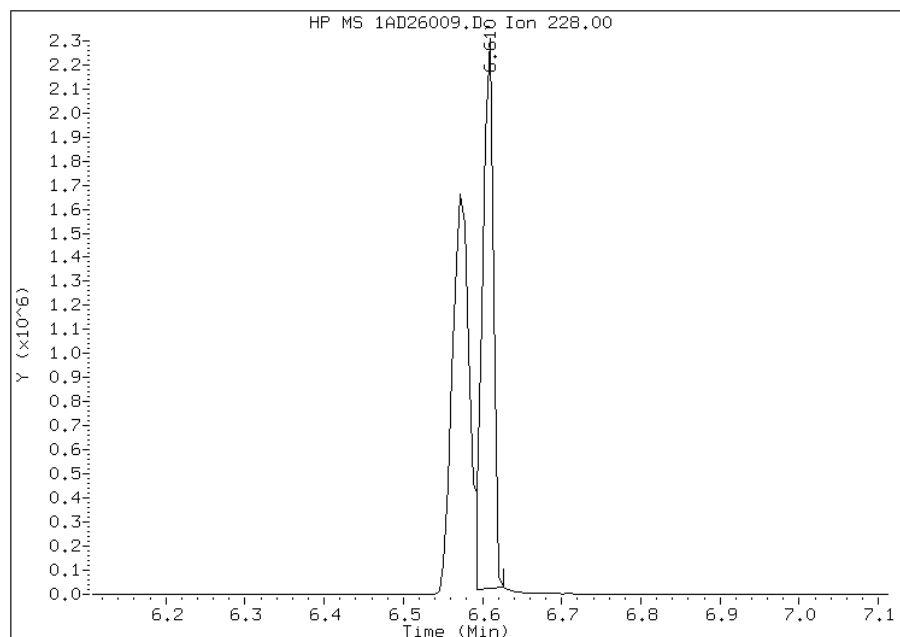


Manual Integration Report

Data File: 1AD26009.D  
Inj. Date and Time: 26-APR-2013 11:34  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 19 Chrysene  
CAS #: 218-01-9  
Report Date: 04/26/2013

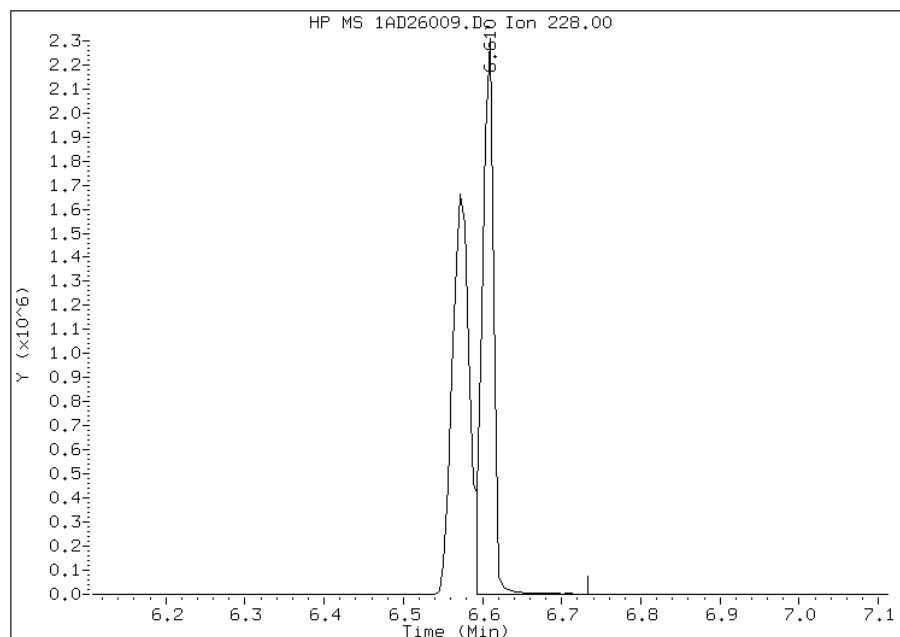
Processing Integration Results

RT: 6.61  
Response: 2123056  
Amount: 42  
Conc: 42



Manual Integration Results

RT: 6.61  
Response: 2209729  
Amount: 43  
Conc: 43



Manually Integrated By: cantins  
Modification Date: 26-Apr-2013 12:55  
Manual Integration Reason: Baseline Event

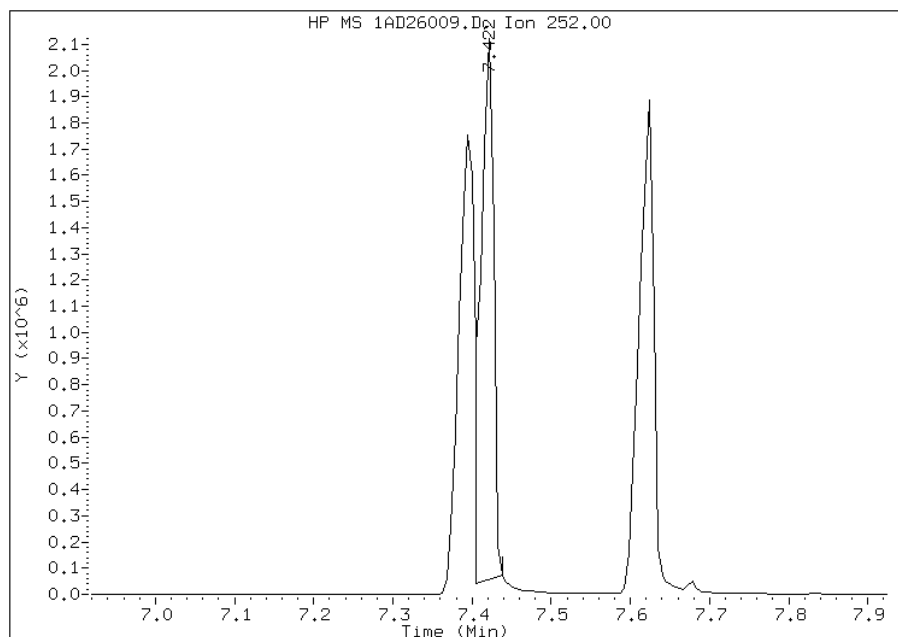


# Manual Integration Report

Data File: 1AD26009.D  
Inj. Date and Time: 26-APR-2013 11:34  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/26/2013

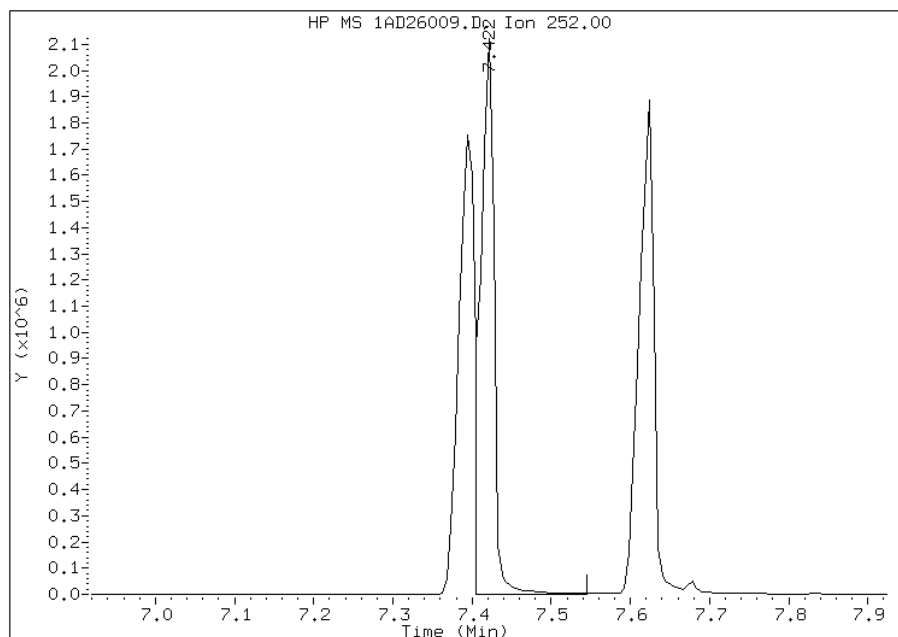
## Processing Integration Results

RT: 7.42  
Response: 2323626  
Amount: 39  
Conc: 39



## Manual Integration Results

RT: 7.42  
Response: 2519945  
Amount: 41  
Conc: 41



Manually Integrated By: cantins  
Modification Date: 26-Apr-2013 12:55  
Manual Integration Reason: Baseline Event

FORM VI  
GC/MS SEMI VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-89791-1 Analy Batch No.: 137156

SDG No.: 68089791-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2013 10:40 Calibration End Date: 05/06/2013 11:56 Calibration ID: 2952

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137156/4	1AE06004.D
Level 2	IC 660-137156/5	1AE06005.D
Level 3	IC 660-137156/6	1AE06006.D
Level 4	IC 660-137156/7	1AE06007.D
Level 5	IC 660-137156/8	1AE06008.D
Level 6	IC 660-137156/9	1AE06009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.8667 0.9221	0.9548	0.9617	0.9647	0.9728	Ave		0.9420			0.0000	3.9		15.0			
2-Methylnaphthalene	0.4226 0.4918	0.4759	0.5039	0.4820	0.4877	Ave		0.4787			0.0000	5.5		15.0			
1-Methylnaphthalene	0.6029 0.5086	0.6310	0.5706	0.5768	0.5700	Ave		0.5738			0.0000	6.6		15.0			
Acenaphthylene	1.6019 1.8391	1.9272	1.9958	1.9528	1.8687	Ave		1.8796			0.0000	7.2		15.0			
Acenaphthene	1.2630 0.9794	1.1191	1.1012	1.0911	0.9775	Ave		1.0794			0.0000	9.2		15.0			
Fluorene	1.2150 1.1688	1.1543	1.2909	1.2296	1.2768	Ave		1.2301			0.0000	4.4		15.0			
Phenanthrene	1.0511 0.9551	0.9723	1.0218	0.9788	0.9545	Ave		0.9910			0.0000	3.6		15.0			
Anthracene	0.9704 1.0683	1.0287	1.1022	1.0731	1.0444	Ave		1.0556			0.0000	4.4		15.0			
Carbazole	0.8515 0.9411	0.9482	1.0434	0.9702	0.9294	Ave		0.9491			0.0000	6.0		15.0			
Fluoranthene	1.0295 1.1667	1.1345	1.1703	1.1455	1.1572	Ave		1.1400			0.0000	4.5		15.0			
Pyrene	1.1087 1.3212	1.2815	1.3443	1.3220	1.3081	Ave		1.2858			0.0000	6.2		15.0			
Benzo[a]anthracene	1.3182 1.1492	1.1011	1.0943	1.0418	1.0896	Ave		1.1242			0.0000	8.1		15.0			
Chrysene	1.3983 1.1822	1.3391	1.2785	1.2693	1.1997	Ave		1.2649			0.0000	6.5		15.0			
Benzo[b]fluoranthene	0.9460 1.2055	0.9352	1.0620	0.9896	1.1918	Ave		1.0573			0.0000	10.4		15.0			
Benzo[k]fluoranthene	1.2427 1.2284	1.3188	1.3819	1.4106	1.2886	Ave		1.3116			0.0000	5.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS SEMI VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-89791-1 Analy Batch No.: 137156

SDG No.: 68089791-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2013 10:40 Calibration End Date: 05/06/2013 11:56 Calibration ID: 2952

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[a]pyrene	1.0150 1.1371	0.9655	1.0919	1.1043	1.1614	Ave		1.0858			0.0000	6.5	15.0				
Indeno[1,2,3-cd]pyrene	0.8009 1.0467	0.7678	0.8798	0.9074	0.9847	Ave		0.9096			0.0000	11.2	15.0				
Dibenz(a,h)anthracene	0.8250 0.9774	0.9059	0.9919	0.9399	0.9663	Ave		0.9324			0.0000	6.1	15.0				
Benzo[g,h,i]perylene	0.9050 1.0138	0.9652	1.0307	0.9710	1.0040	Ave		0.9782			0.0000	4.3	15.0				
o-Terphenyl	0.5850 0.5366	0.5762	0.6000	0.5836	0.5515	Ave		0.5725			0.0000	3.8	15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS SEMI VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-89791-1 Analy Batch No.: 137156

SDG No.: 68089791-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2013 10:40 Calibration End Date: 05/06/2013 11:56 Calibration ID: 2952

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137156/4	1AE06004.D
Level 2	IC 660-137156/5	1AE06005.D
Level 3	IC 660-137156/6	1AE06006.D
Level 4	IC 660-137156/7	1AE06007.D
Level 5	IC 660-137156/8	1AE06008.D
Level 6	IC 660-137156/9	1AE06009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	5529 1397244	28538	156392	301663	837016	0.200 50.0	1.00	5.00	10.0	30.0
2-Methylnaphthalene	NPT	Ave	2696 745285	14225	81952	150716	419604	0.200 50.0	1.00	5.00	10.0	30.0
1-Methylnaphthalene	NPT	Ave	3846 770690	18860	92797	180349	490403	0.200 50.0	1.00	5.00	10.0	30.0
Acenaphthylene	ANT	Ave	5213 1396662	29650	156651	305312	801835	0.200 50.0	1.00	5.00	10.0	30.0
Acenaphthene	ANT	Ave	4110 743745	17218	86437	170588	419418	0.200 50.0	1.00	5.00	10.0	30.0
Fluorene	ANT	Ave	3954 887590	17759	101320	192234	547833	0.200 50.0	1.00	5.00	10.0	30.0
Phenanthrene	PHN	Ave	5800 1241024	25196	136267	258887	711095	0.200 50.0	1.00	5.00	10.0	30.0
Anthracene	PHN	Ave	5355 1388133	26659	146994	283812	778079	0.200 50.0	1.00	5.00	10.0	30.0
Carbazole	PHN	Ave	4699 1222783	24572	139150	256614	692413	0.200 50.0	1.00	5.00	10.0	30.0
Fluoranthene	PHN	Ave	5681 1515990	29400	156066	302969	862141	0.200 50.0	1.00	5.00	10.0	30.0
Pyrene	CRY	Ave	5812 1521255	30866	169550	327292	882847	0.200 50.0	1.00	5.00	10.0	30.0
Benzo[a]anthracene	CRY	Ave	6910 1323236	26522	138014	257936	735367	0.200 50.0	1.00	5.00	10.0	30.0
Chrysene	CRY	Ave	7330 1361261	32255	161246	314241	809687	0.200 50.0	1.00	5.00	10.0	30.0
Benzo[b]fluoranthene	PRY	Ave	4707 1327571	21937	126343	236568	752076	0.200 50.0	1.00	5.00	10.0	30.0
Benzo[k]fluoranthene	PRY	Ave	6183 1352818	30936	164403	337219	813163	0.200 50.0	1.00	5.00	10.0	30.0
Benzo[a]pyrene	PRY	Ave	5050 1252292	22648	129901	263990	732885	0.200 50.0	1.00	5.00	10.0	30.0

FORM VI  
GC/MS SEMI VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-89791-1 Analy Batch No.: 137156

SDG No.: 68089791-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2013 10:40 Calibration End Date: 05/06/2013 11:56 Calibration ID: 2952

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Indeno[1,2,3-cd]pyrene	PRY	Ave	3985 1152680	18010	104666	216924	621385	0.200 50.0	1.00	5.00	10.0	30.0
Dibenz(a,h)anthracene	PRY	Ave	4105 1076428	21249	118003	224688	609787	0.200 50.0	1.00	5.00	10.0	30.0
Benzo[g,h,i]perylene	PRY	Ave	4503 1116517	22641	122623	232133	633546	0.200 50.0	1.00	5.00	10.0	30.0
o-Terphenyl	PHN	Ave	3228 697232	14933	80011	154345	410873	0.200 50.0	1.00	5.00	10.0	30.0

Curve Type Legend:

Ave = Average ISTD

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06004.D  
 Lab Smp Id: IC-1531396  
 Inj Date : 06-MAY-2013 10:40  
 Operator : SCC  
 Smp Info : IC-1531396  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06004.D  
 Meth Date : 06-May-2013 12:59 BSMA5973.i Quant Type: ISTD  
 Cal Date : 06-MAY-2013 10:24 Cal File: 1AE06003.D  
 Als bottle: 4 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT	SIG	AMOUNTS					ON-COL
			MASS	RT	EXP RT	REL RT	RESPONSE	
* 1 Naphthalene-d8	136		2.545	2.544	(1.000)	1275912	40.0000	
* 6 Acenaphthene-d10	164		3.571	3.575	(1.000)	650840	40.0000	
* 10 Phenanthrene-d10	188		4.517	4.520	(1.000)	1103640	40.0000	
\$ 14 o-Terphenyl	230		4.816	4.819	(1.066)	3228	0.20000	0.2043
* 18 Chrysene-d12	240		6.531	6.534	(1.000)	1048388	40.0000	
* 23 Perylene-d12	264		7.615	7.629	(1.000)	995106	40.0000	
2 Naphthalene	128		2.556	2.554	(1.004)	5529	0.20000	0.1840(Q)
3 2-Methylnaphthalene	141		2.962	2.960	(1.164)	2696	0.20000	0.1765
4 1-Methylnaphthalene	142		3.015	3.014	(1.185)	3846	0.20000	0.2101
5 Acenaphthylene	152		3.480	3.484	(0.975)	5213	0.20000	0.1704
7 Acenaphthene	154		3.587	3.591	(1.004)	4110	0.20000	0.2340
9 Fluorene	166		3.902	3.901	(1.093)	3954	0.20000	0.1975(T)
11 Phenanthrene	178		4.533	4.536	(1.004)	5800	0.20000	0.2121(M)
12 Anthracene	178		4.565	4.568	(1.011)	5355	0.20000	0.1838
13 Carbazole	167		4.704	4.702	(1.041)	4699	0.20000	0.1794(T)
15 Fluoranthene	202		5.393	5.396	(1.194)	5681	0.20000	0.1806(M)
16 Pyrene	202		5.558	5.562	(0.851)	5812	0.20000	0.1724
17 Benzo(a)anthracene	228		6.525	6.523	(0.999)	6910	0.20000	0.2345
19 Chrysene	228		6.547	6.550	(1.002)	7330	0.20000	0.2211
20 Benzo(b)fluoranthene	252		7.337	7.346	(0.964)	4707	0.20000	0.1789
21 Benzo(k)fluoranthene	252		7.353	7.368	(0.966)	6183	0.20000	0.1894(M)
22 Benzo(a)pyrene	252		7.567	7.576	(0.994)	5050	0.20000	0.1869
24 Indeno(1,2,3-cd)pyrene	276		8.363	8.388	(1.098)	3985	0.20000	0.1760
25 Dibenzo(a,h)anthracene	278		8.390	8.415	(1.102)	4105	0.20000	0.1769(T)
26 Benzo(g,h,i)perylene	276		8.577	8.602	(1.126)	4503	0.20000	0.1850(M)

QC Flag Legend

- T - Target compound detected outside RT window.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: 1AE06004.D

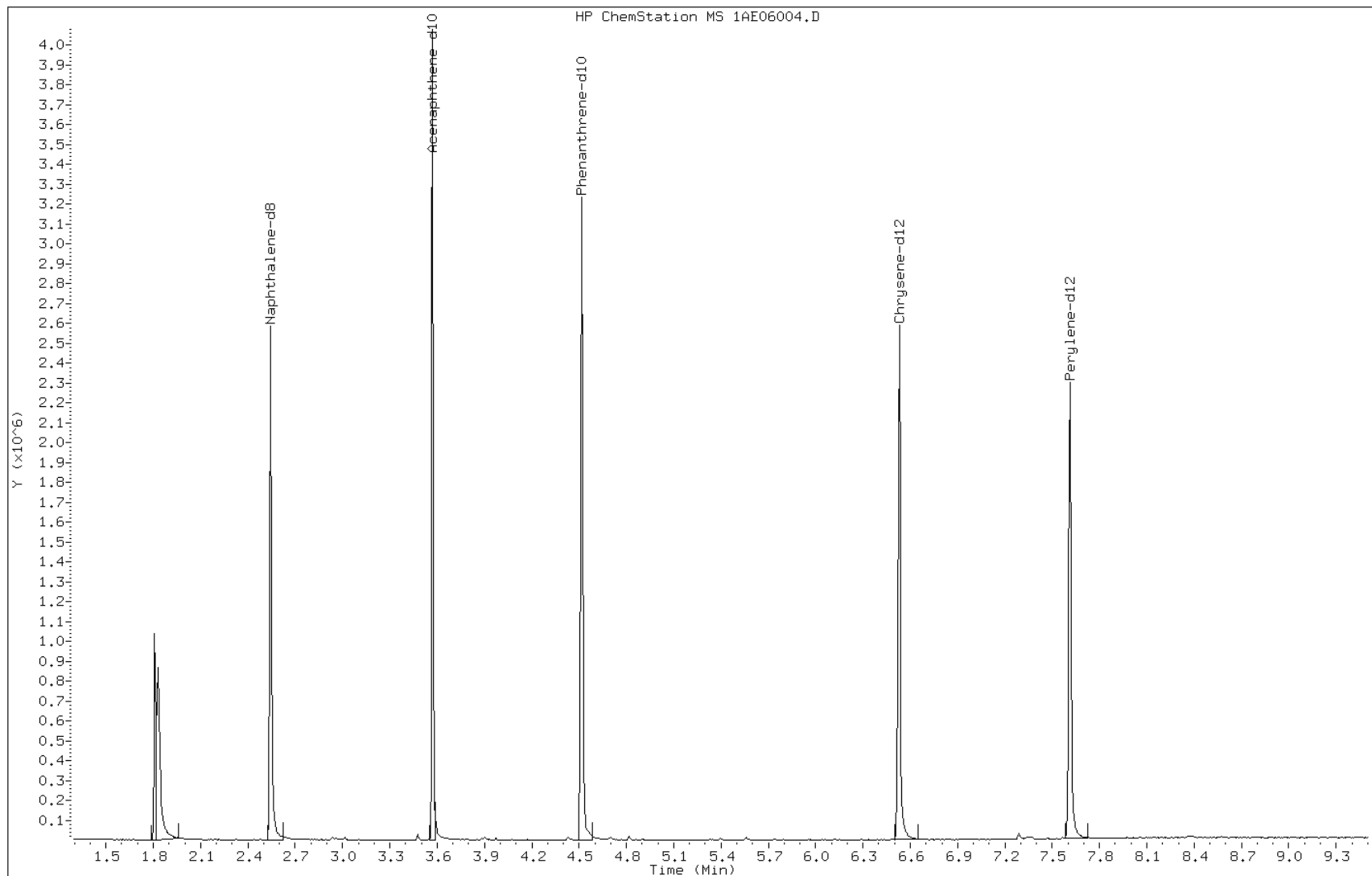
Date: 06-MAY-2013 10:40

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531396

Operator: SCC

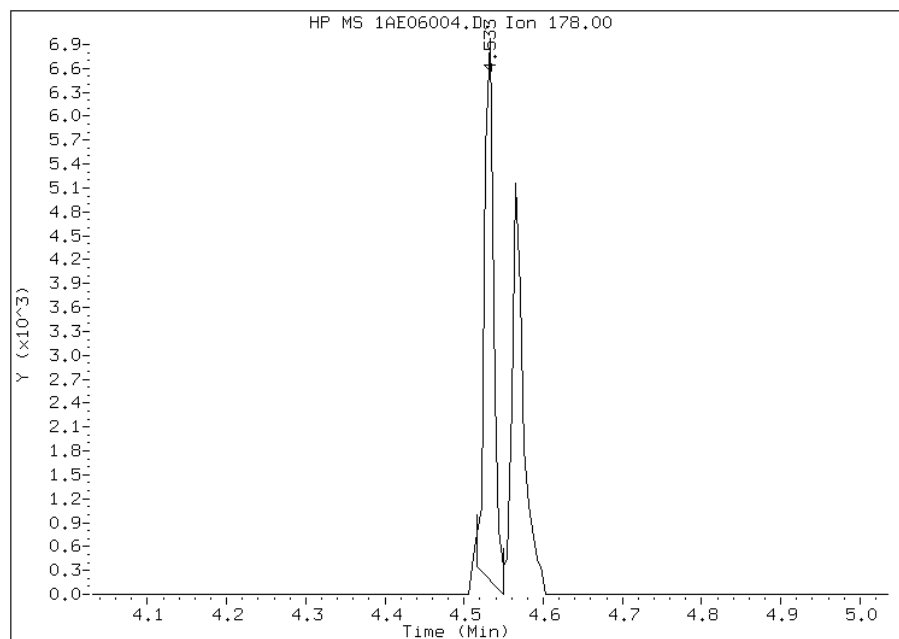


# Manual Integration Report

Data File: 1AE06004.D  
Inj. Date and Time: 06-MAY-2013 10:40  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 11 Phenanthrene  
CAS #: 85-01-8  
Report Date: 05/06/2013

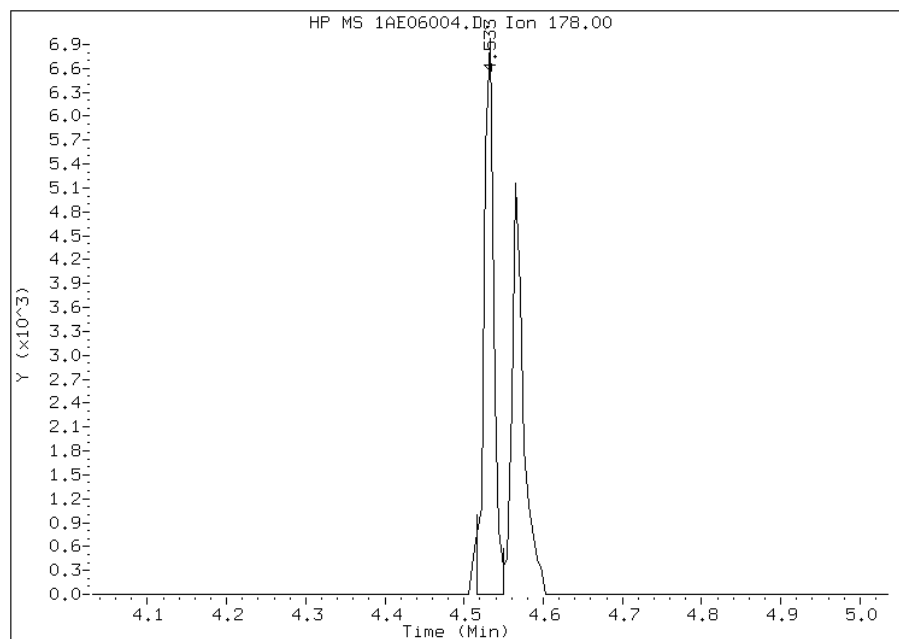
## Processing Integration Results

RT: 4.53  
Response: 5408  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 4.53  
Response: 5800  
Amount: 0  
Conc: 0



Manually Integrated By: cantins  
Modification Date: 06-May-2013 12:53  
Manual Integration Reason: Baseline Event

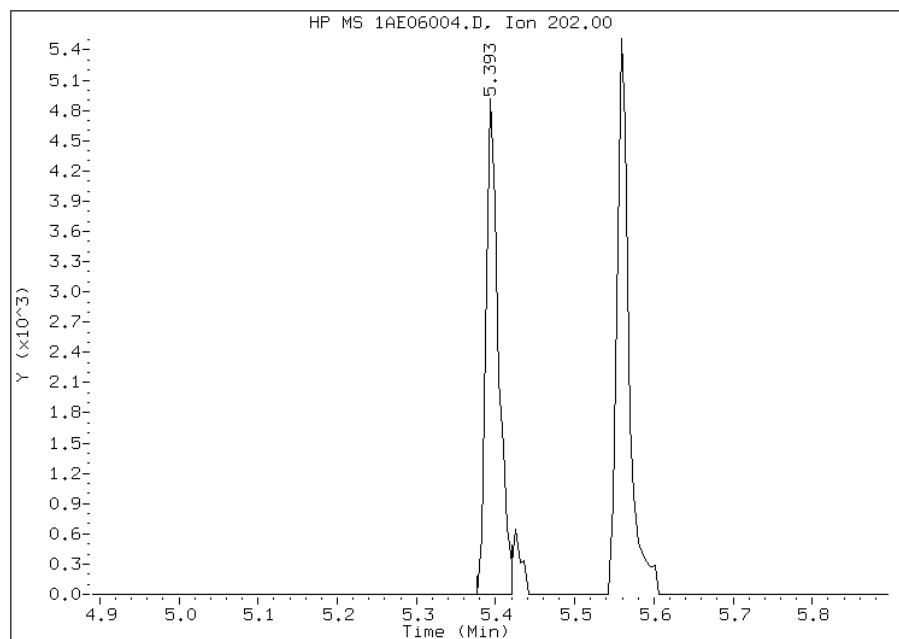


# Manual Integration Report

Data File: 1AE06004.D  
Inj. Date and Time: 06-MAY-2013 10:40  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 15 Fluoranthene  
CAS #: 206-44-0  
Report Date: 05/06/2013

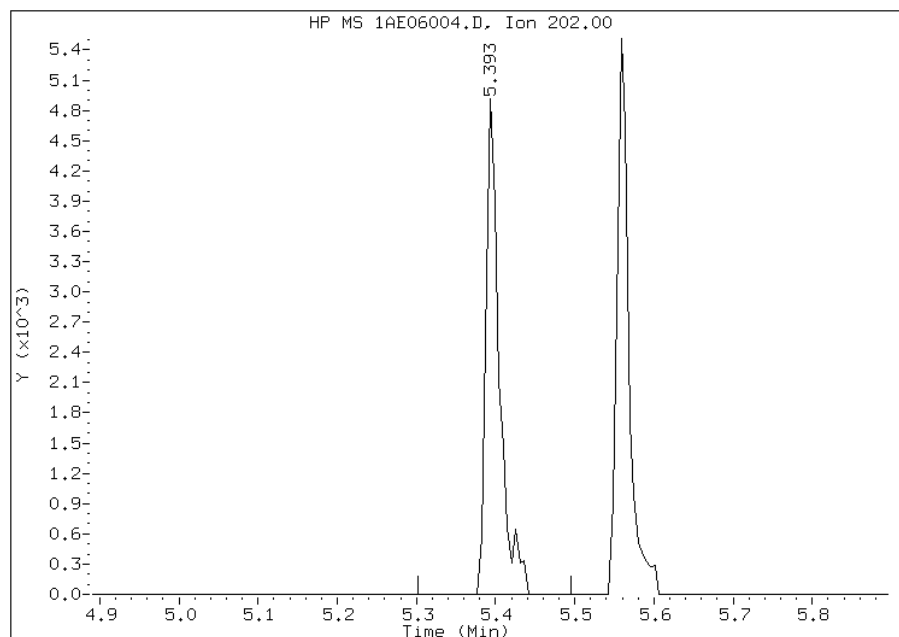
## Processing Integration Results

RT: 5.39  
Response: 5268  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 5.39  
Response: 5681  
Amount: 0  
Conc: 0



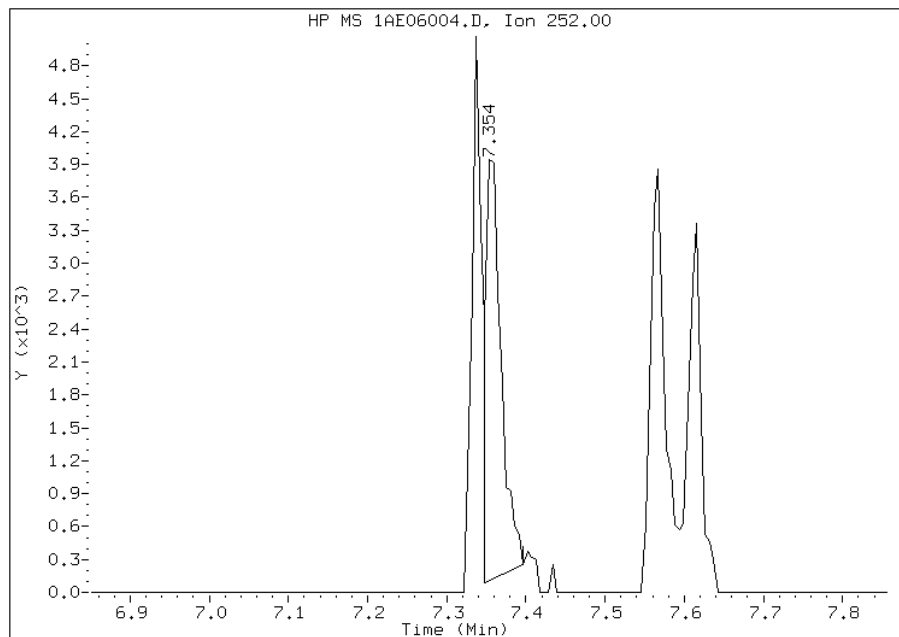
Manually Integrated By: cantins  
Modification Date: 06-May-2013 12:53  
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06004.D  
Inj. Date and Time: 06-MAY-2013 10:40  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 05/06/2013

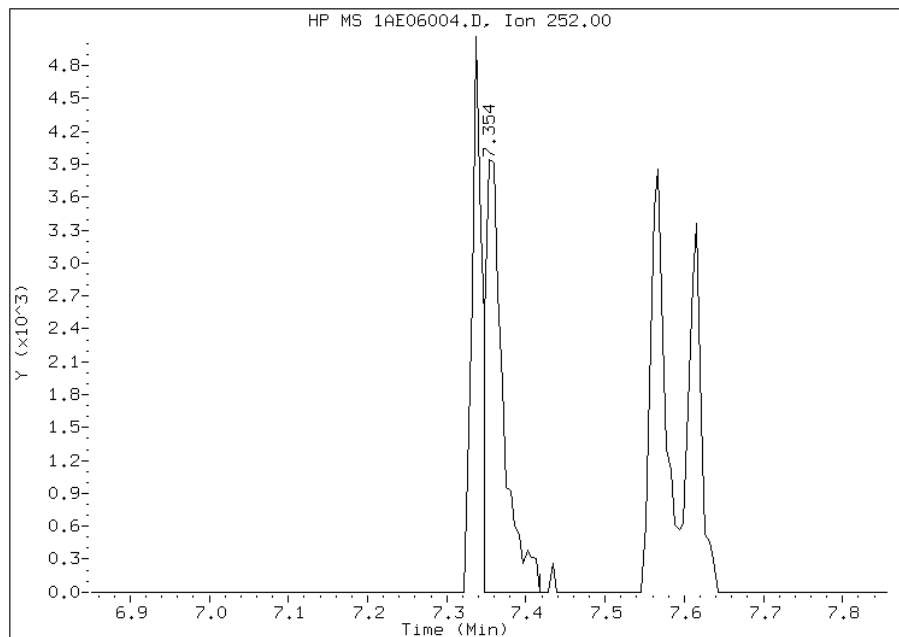
Processing Integration Results

RT: 7.35  
Response: 5294  
Amount: 0  
Conc: 0



Manual Integration Results

RT: 7.35  
Response: 6183  
Amount: 0  
Conc: 0



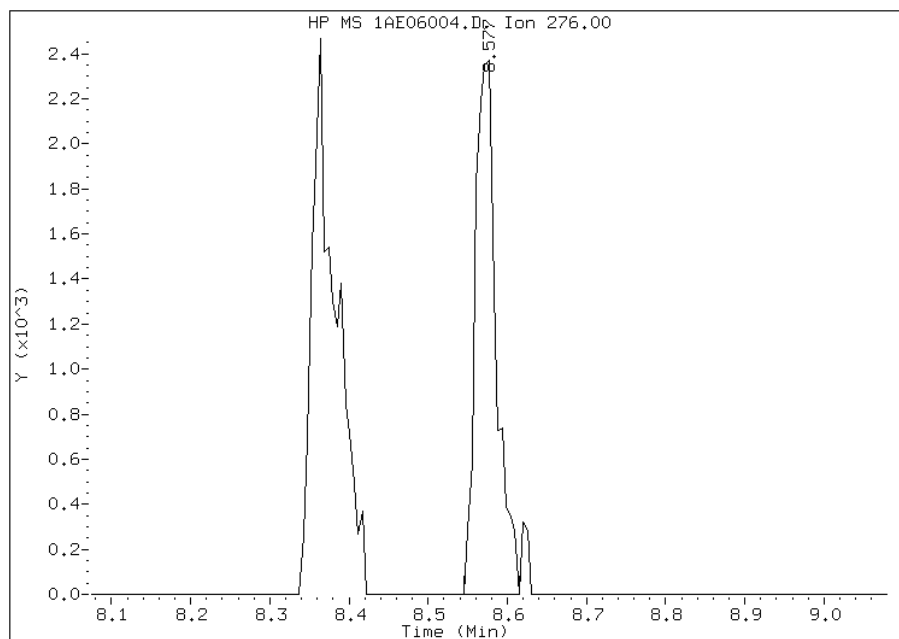
Manually Integrated By: cantins  
Modification Date: 06-May-2013 12:54  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE06004.D  
Inj. Date and Time: 06-MAY-2013 10:40  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 05/06/2013

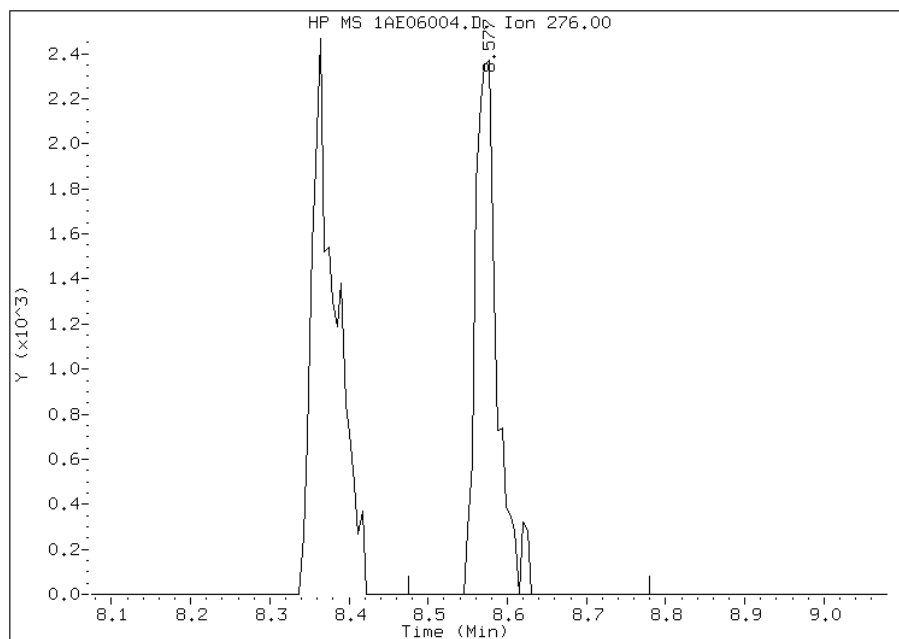
## Processing Integration Results

RT: 8.58  
Response: 4307  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 8.58  
Response: 4503  
Amount: 0  
Conc: 0



Manually Integrated By: cantins  
Modification Date: 06-May-2013 12:54  
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMA5973.i\1A050613.b\1AE06005.D  
 Lab Smp Id: IC-1531398  
 Inj Date : 06-MAY-2013 10:56  
 Operator : SCC  
 Smp Info : IC-1531398  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m  
 Meth Date : 06-May-2013 12:59 BSMA5973.i Quant Type: ISTD  
 Cal Date : 06-MAY-2013 10:40 Cal File: 1AE06004.D  
 Als bottle: 5 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.543	2.544	(1.000)	1195527	40.0000	
* 6 Acenaphthene-d10	164	3.568	3.575	(1.000)	615405	40.0000	
* 10 Phenanthrene-d10	188	4.519	4.520	(1.000)	1036602	40.0000	
\$ 14 o-Terphenyl	230	4.813	4.819	(1.065)	14933	1.00000	1.0065
* 18 Chrysene-d12	240	6.528	6.534	(1.000)	963465	40.0000	
* 23 Perylene-d12	264	7.612	7.629	(1.000)	938287	40.0000	
2 Naphthalene	128	2.553	2.554	(1.004)	28538	1.00000	1.0136
3 2-Methylnaphthalene	141	2.959	2.960	(1.164)	14225	1.00000	0.9941
4 1-Methylnaphthalene	142	3.013	3.014	(1.185)	18860	1.00000	1.0997
5 Acenaphthylene	152	3.483	3.484	(0.976)	29650	1.00000	1.0253
7 Acenaphthene	154	3.584	3.591	(1.004)	17218	1.00000	1.0368
9 Fluorene	166	3.900	3.901	(1.093)	17759	1.00000	0.9383
11 Phenanthrene	178	4.530	4.536	(1.002)	25196	1.00000	0.9811
12 Anthracene	178	4.562	4.568	(1.009)	26659	1.00000	0.9745
13 Carbazole	167	4.701	4.702	(1.040)	24572	1.00000	0.9990(TM)
15 Fluoranthene	202	5.395	5.396	(1.194)	29400	1.00000	0.9951
16 Pyrene	202	5.556	5.562	(0.851)	30866	1.00000	0.9966
17 Benzo(a)anthracene	228	6.523	6.523	(0.999)	26522	1.00000	0.9794
19 Chrysene	228	6.544	6.550	(1.002)	32255	1.00000	1.0587(M)
20 Benzo(b)fluoranthene	252	7.335	7.346	(0.964)	21937	1.00000	0.8845
21 Benzo(k)fluoranthene	252	7.356	7.368	(0.966)	30936	1.00000	1.0054(M)
22 Benzo(a)pyrene	252	7.559	7.576	(0.993)	22648	1.00000	0.8892
24 Indeno(1,2,3-cd)pyrene	276	8.355	8.388	(1.098)	18010	1.00000	0.8440(M)
25 Dibenzo(a,h)anthracene	278	8.382	8.415	(1.101)	21249	1.00000	0.9715(M)
26 Benzo(g,h,i)perylene	276	8.563	8.602	(1.125)	22641	1.00000	0.9867(M)

QC Flag Legend

T - Target compound detected outside RT window.  
 M - Compound response manually integrated.

Data File: 1AE06005.D

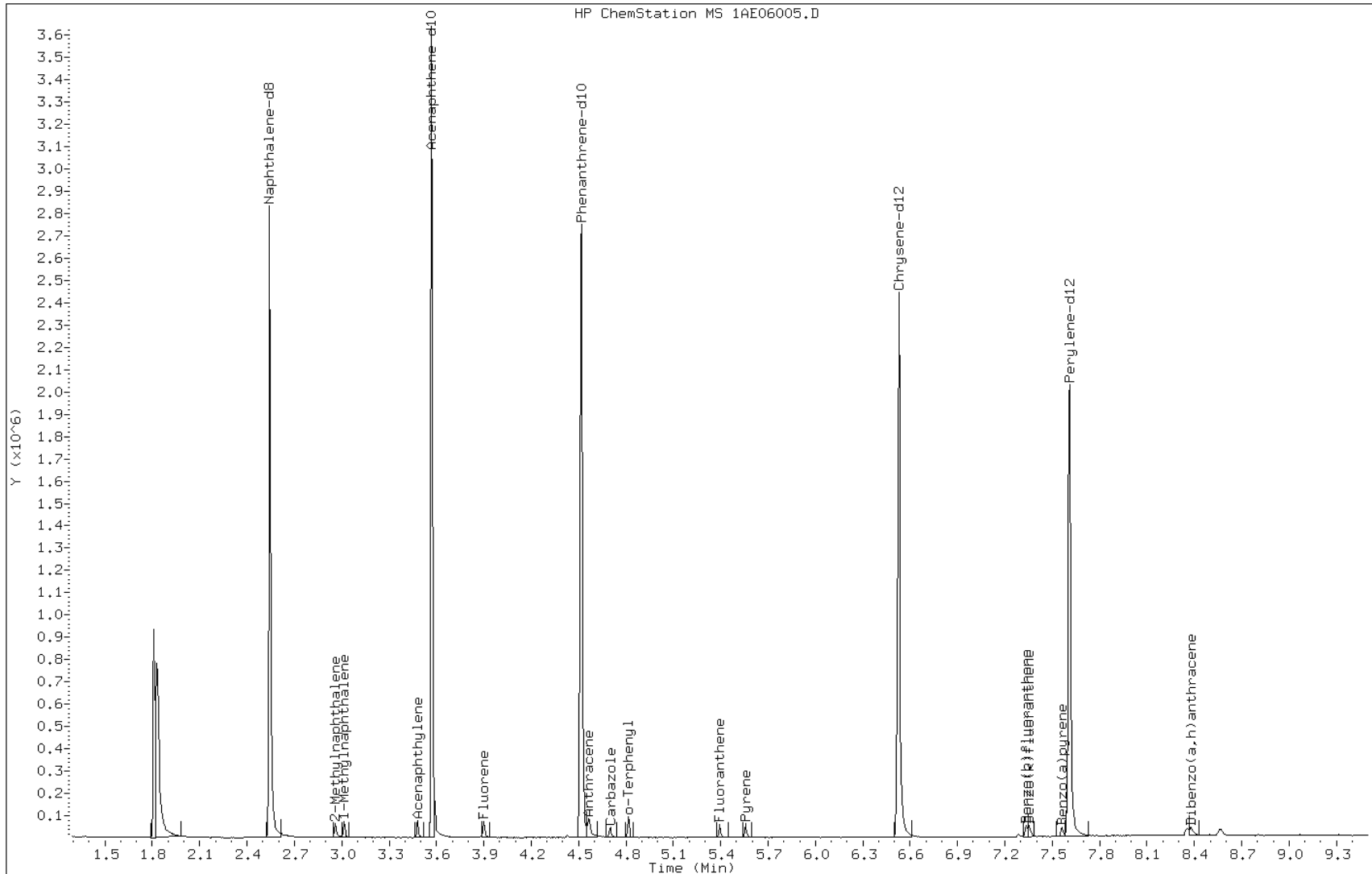
Date: 06-MAY-2013 10:56

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531398

Operator: SCC

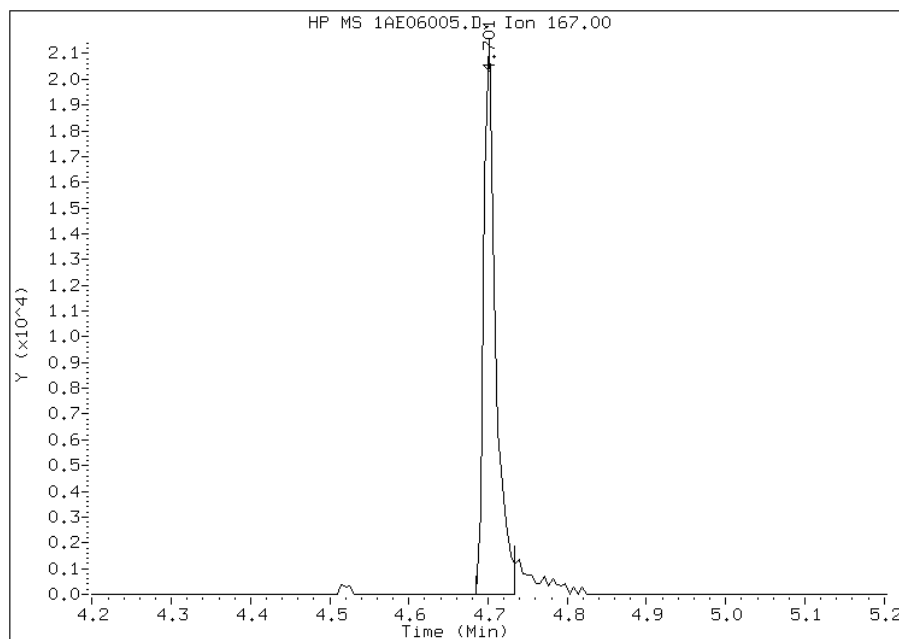


# Manual Integration Report

Data File: 1AE06005.D  
Inj. Date and Time: 06-MAY-2013 10:56  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 13 Carbazole  
CAS #: 86-74-8  
Report Date: 05/06/2013

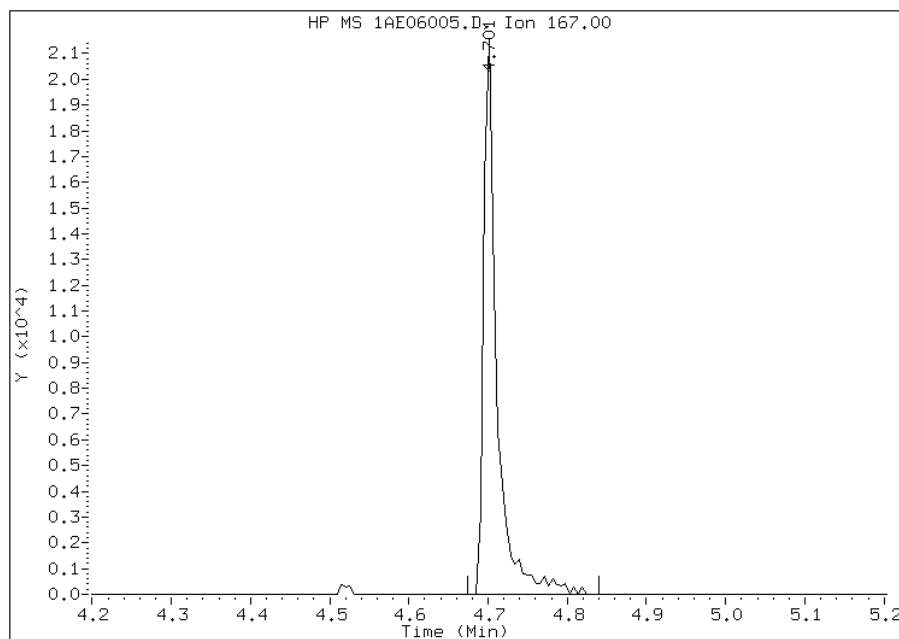
## Processing Integration Results

RT: 4.70  
Response: 22103  
Amount: 1  
Conc: 1



## Manual Integration Results

RT: 4.70  
Response: 24572  
Amount: 1  
Conc: 1



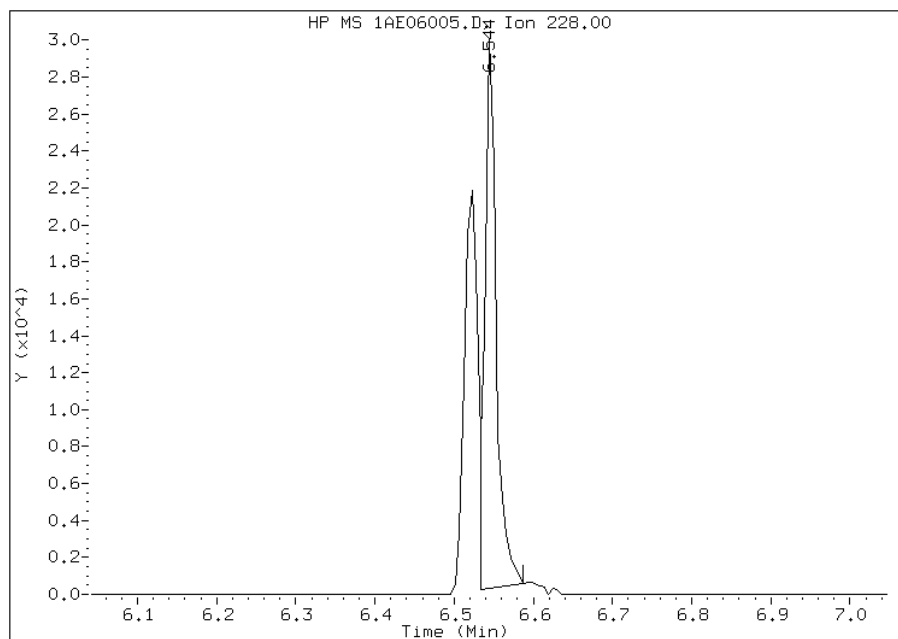
Manually Integrated By: cantins  
Modification Date: 06-May-2013 12:55  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE06005.D  
Inj. Date and Time: 06-MAY-2013 10:56  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 19 Chrysene  
CAS #: 218-01-9  
Report Date: 05/06/2013

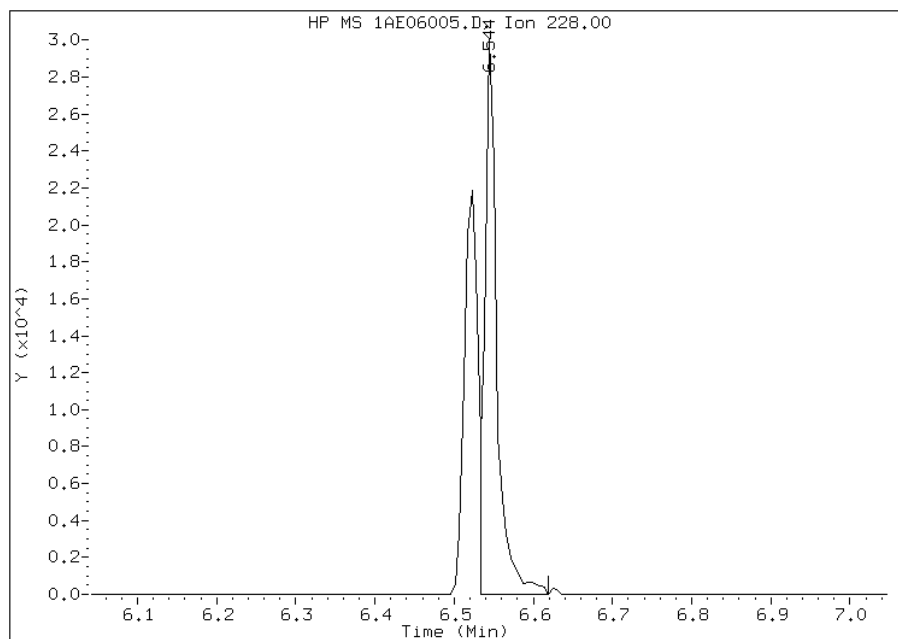
## Processing Integration Results

RT: 6.54  
Response: 29968  
Amount: 1  
Conc: 1



## Manual Integration Results

RT: 6.54  
Response: 32255  
Amount: 1  
Conc: 1



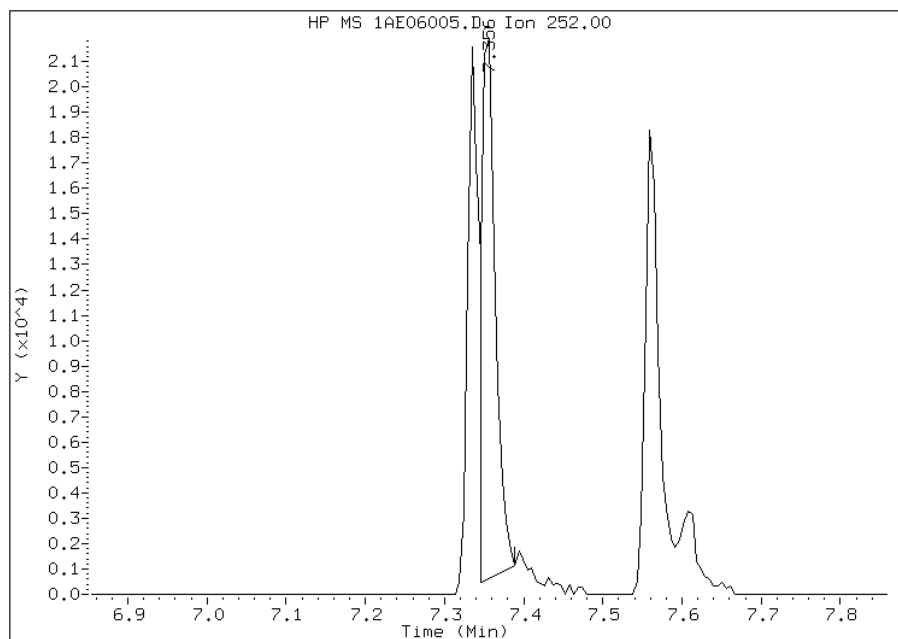
Manually Integrated By: cantins  
Modification Date: 06-May-2013 12:55  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE06005.D  
Inj. Date and Time: 06-MAY-2013 10:56  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 05/06/2013

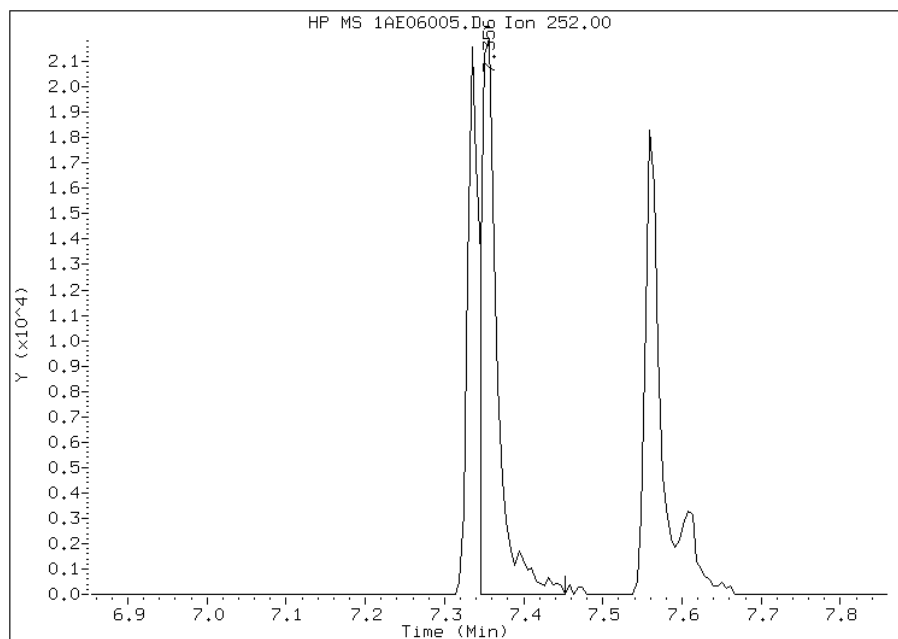
## Processing Integration Results

RT: 7.36  
Response: 26088  
Amount: 1  
Conc: 1



## Manual Integration Results

RT: 7.36  
Response: 30936  
Amount: 1  
Conc: 1



Manually Integrated By: cantins  
Modification Date: 06-May-2013 12:55  
Manual Integration Reason: Baseline Event

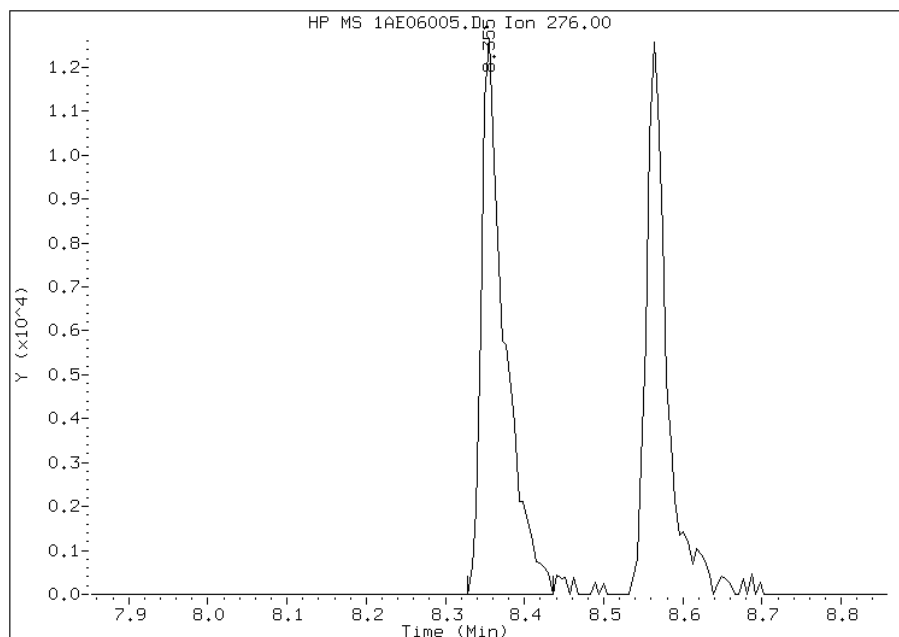


# Manual Integration Report

Data File: 1AE06005.D  
Inj. Date and Time: 06-MAY-2013 10:56  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/06/2013

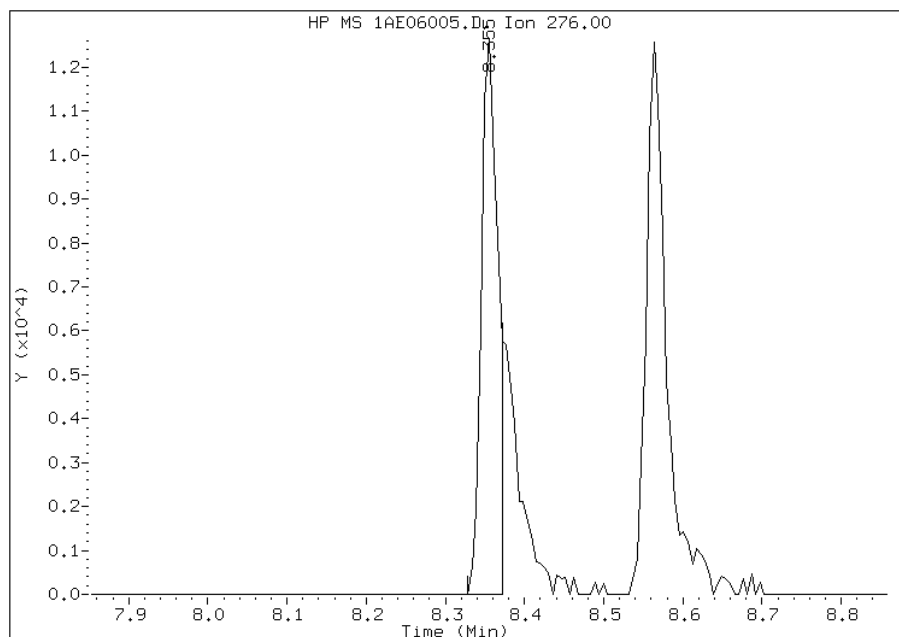
## Processing Integration Results

RT: 8.36  
Response: 25702  
Amount: 1  
Conc: 1



## Manual Integration Results

RT: 8.36  
Response: 18010  
Amount: 1  
Conc: 1



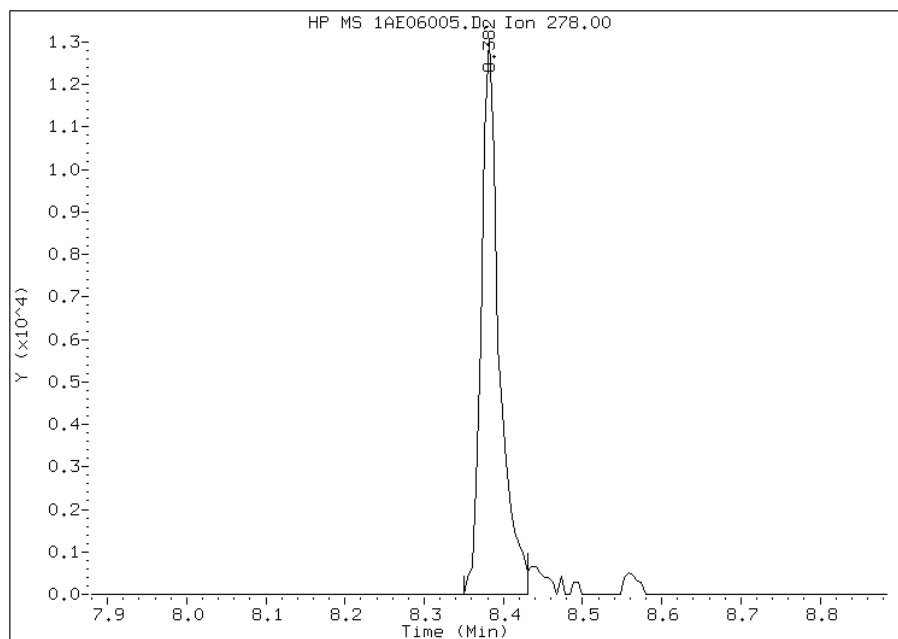
Manually Integrated By: cantins  
Modification Date: 06-May-2013 12:56  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AE06005.D  
Inj. Date and Time: 06-MAY-2013 10:56  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 05/06/2013

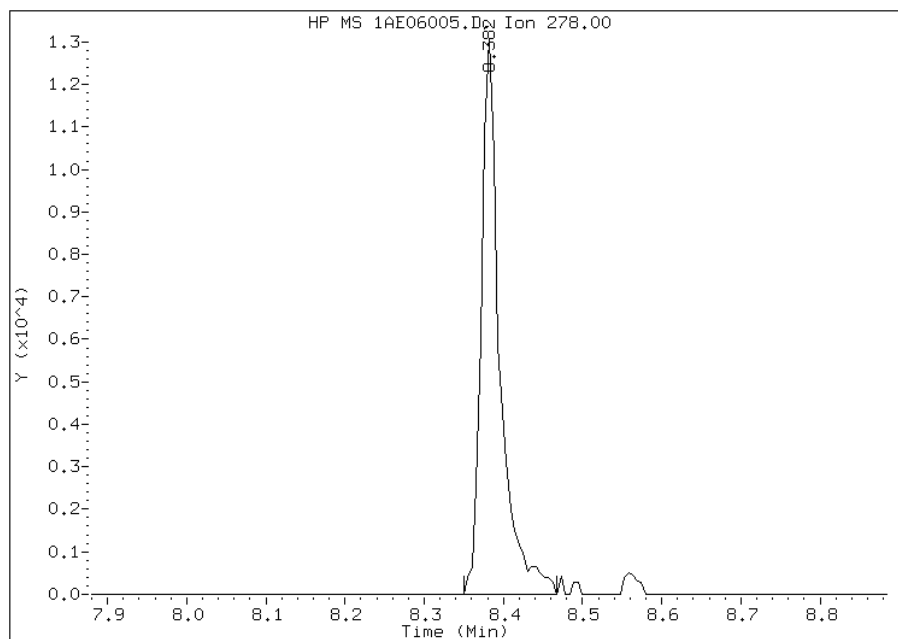
## Processing Integration Results

RT: 8.38  
Response: 20294  
Amount: 1  
Conc: 1



## Manual Integration Results

RT: 8.38  
Response: 21249  
Amount: 1  
Conc: 1



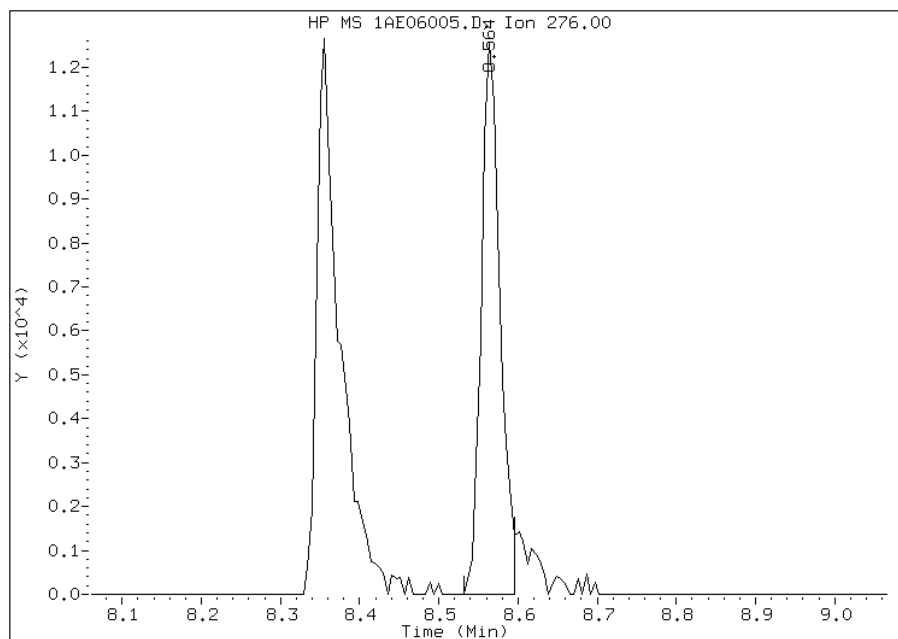
Manually Integrated By: cantins  
Modification Date: 06-May-2013 12:55  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE06005.D  
Inj. Date and Time: 06-MAY-2013 10:56  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 05/06/2013

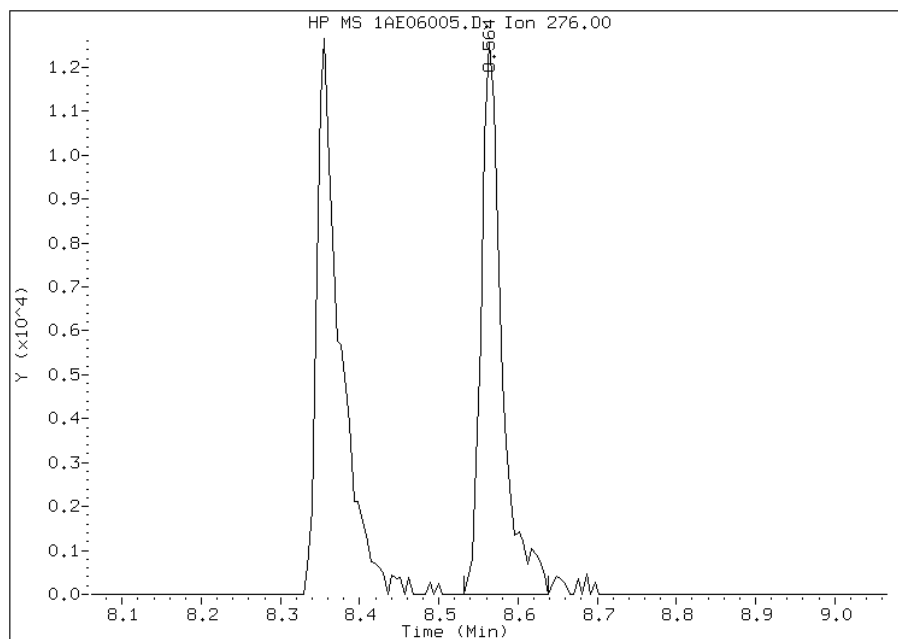
## Processing Integration Results

RT: 8.56  
Response: 20567  
Amount: 1  
Conc: 1



## Manual Integration Results

RT: 8.56  
Response: 22641  
Amount: 1  
Conc: 1



Manually Integrated By: cantins  
Modification Date: 06-May-2013 12:55  
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMA5973.i\1A050613.b\1AE06006.D  
 Lab Smp Id: IC-1531399  
 Inj Date : 06-MAY-2013 11:11  
 Operator : SCC  
 Smp Info : IC-1531399  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMA5973.i\1A050613.b\1AE06006.D  
 Meth Date : 06-May-2013 12:59 BSMA5973.i Quant Type: ISTD  
 Cal Date : 06-MAY-2013 10:56 Cal File: 1AE06005.D  
 Als bottle: 6 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT	SIG	AMOUNTS					ON-COL
			MASS	RT	EXP RT	REL RT	RESPONSE	
* 1 Naphthalene-d8	136		2.544	2.544	(1.000)	1300957	40.0000	
* 6 Acenaphthene-d10	164		3.569	3.575	(1.000)	627926	40.0000	
* 10 Phenanthrene-d10	188		4.520	4.520	(1.000)	1066875	40.0000	
\$ 14 o-Terphenyl	230		4.814	4.819	(1.065)	80011	5.00000	5.2399
* 18 Chrysene-d12	240		6.529	6.534	(1.000)	1008970	40.0000	
* 23 Perylene-d12	264		7.613	7.629	(1.000)	951721	40.0000	
2 Naphthalene	128		2.554	2.554	(1.004)	156392	5.00000	5.1047
3 2-Methylnaphthalene	141		2.960	2.960	(1.164)	81952	5.00000	5.2634
4 1-Methylnaphthalene	142		3.014	3.014	(1.185)	92797	5.00000	4.9724
5 Acenaphthylene	152		3.484	3.484	(0.976)	156651	5.00000	5.3091
7 Acenaphthene	154		3.585	3.591	(1.004)	86437	5.00000	5.1011
9 Fluorene	166		3.901	3.901	(1.093)	101320	5.00000	5.2469
11 Phenanthrene	178		4.531	4.536	(1.002)	136267	5.00000	5.1555
12 Anthracene	178		4.563	4.568	(1.009)	146994	5.00000	5.2208
13 Carbazole	167		4.697	4.702	(1.039)	139150	5.00000	5.4968(M)
15 Fluoranthene	202		5.391	5.396	(1.193)	156066	5.00000	5.1326
16 Pyrene	202		5.557	5.562	(0.851)	169550	5.00000	5.2278
17 Benzo(a)anthracene	228		6.524	6.523	(0.999)	138014	5.00000	4.8671
19 Chrysene	228		6.545	6.550	(1.002)	161246	5.00000	5.0539
20 Benzo(b)fluoranthene	252		7.336	7.346	(0.964)	126343	5.00000	5.0224
21 Benzo(k)fluoranthene	252		7.357	7.368	(0.966)	164403	5.00000	5.2680
22 Benzo(a)pyrene	252		7.565	7.576	(0.994)	129901	5.00000	5.0281
24 Indeno(1,2,3-cd)pyrene	276		8.361	8.388	(1.098)	104666	5.00000	4.8360(M)
25 Dibenzo(a,h)anthracene	278		8.388	8.415	(1.102)	118003	5.00000	5.3189(M)
26 Benzo(g,h,i)perylene	276		8.570	8.602	(1.126)	122623	5.00000	5.2687(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AE06006.D

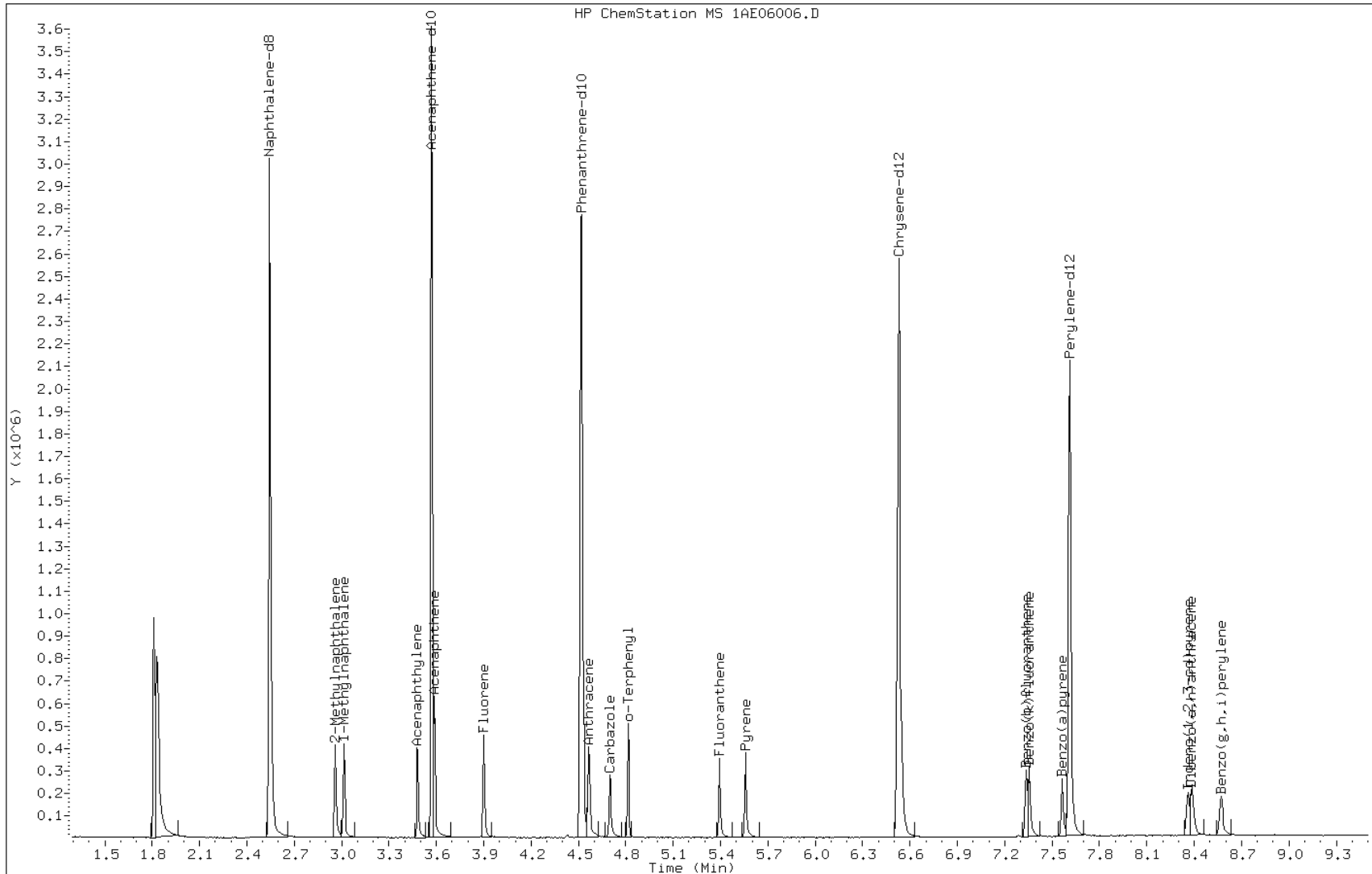
Date: 06-MAY-2013 11:11

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531399

Operator: SCC

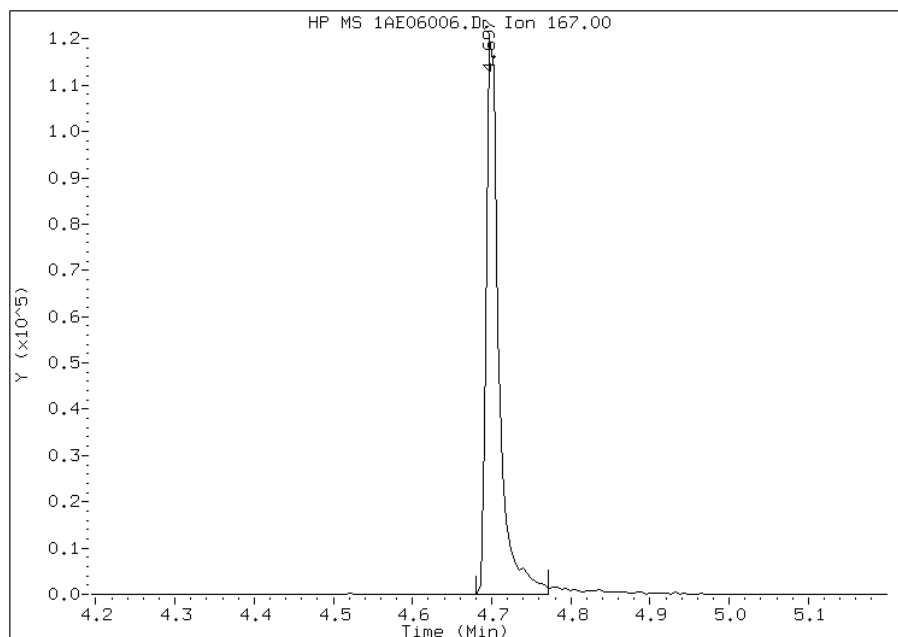


# Manual Integration Report

Data File: 1AE06006.D  
Inj. Date and Time: 06-MAY-2013 11:11  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 13 Carbazole  
CAS #: 86-74-8  
Report Date: 05/06/2013

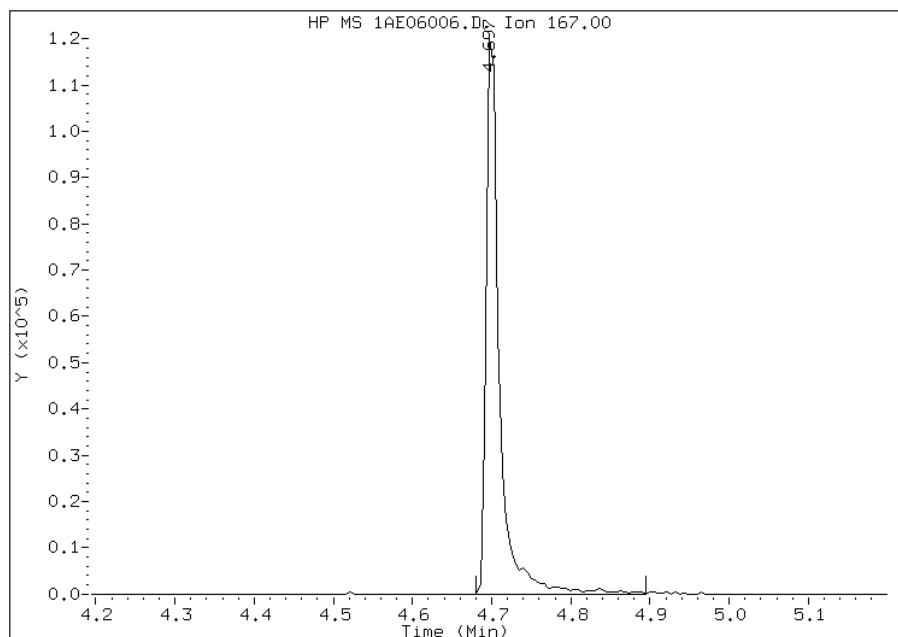
## Processing Integration Results

RT: 4.70  
Response: 132433  
Amount: 5  
Conc: 5



## Manual Integration Results

RT: 4.70  
Response: 139150  
Amount: 5  
Conc: 5



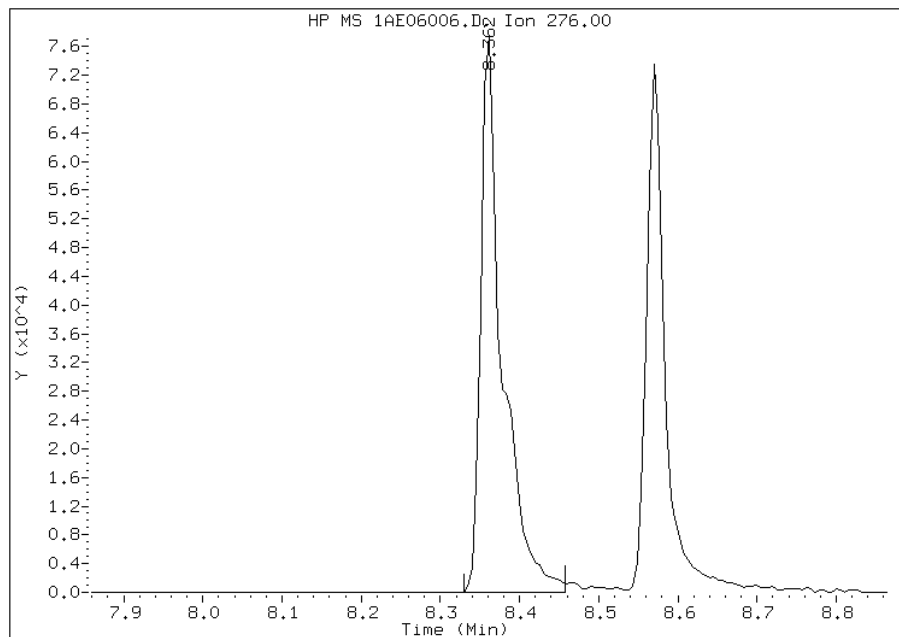
Manually Integrated By: cantins  
Modification Date: 06-May-2013 12:56  
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06006.D  
Inj. Date and Time: 06-MAY-2013 11:11  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/06/2013

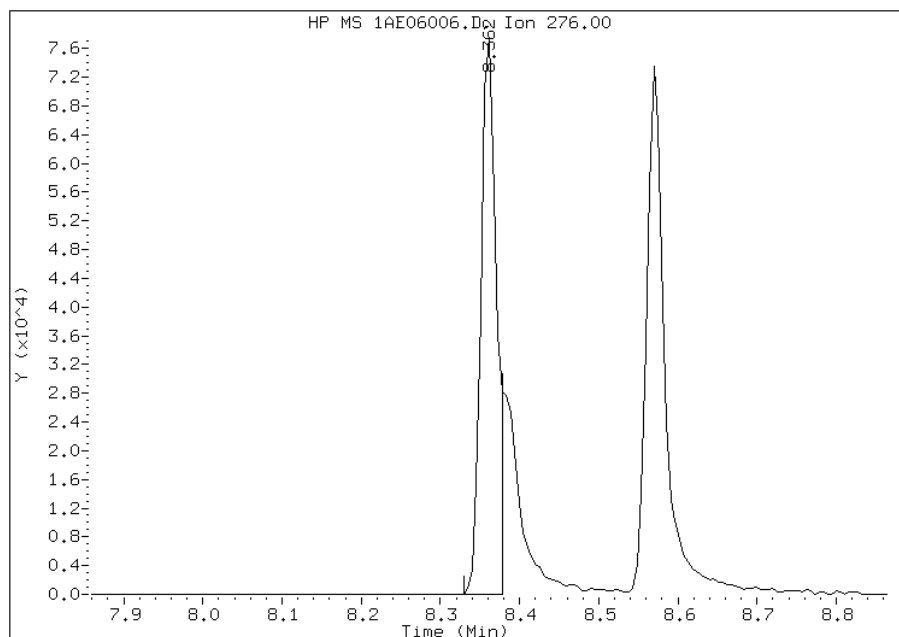
Processing Integration Results

RT: 8.36  
Response: 144694  
Amount: 6  
Conc: 6



Manual Integration Results

RT: 8.36  
Response: 104666  
Amount: 5  
Conc: 5



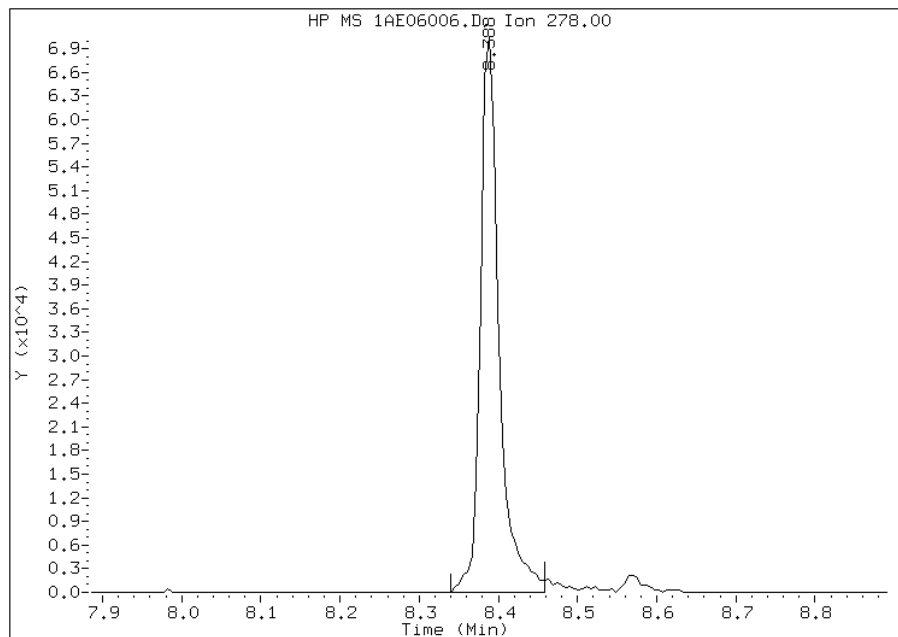
Manually Integrated By: cantins  
Modification Date: 06-May-2013 12:57  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AE06006.D  
Inj. Date and Time: 06-MAY-2013 11:11  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 05/06/2013

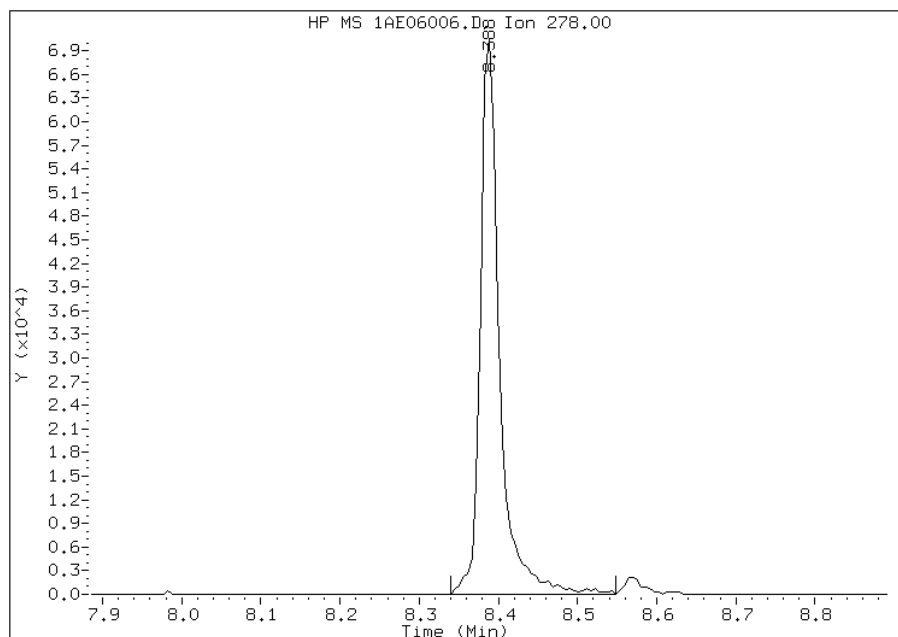
## Processing Integration Results

RT: 8.39  
Response: 114675  
Amount: 5  
Conc: 5



## Manual Integration Results

RT: 8.39  
Response: 118003  
Amount: 5  
Conc: 5



Manually Integrated By: cantins  
Modification Date: 06-May-2013 12:57  
Manual Integration Reason: Baseline Event

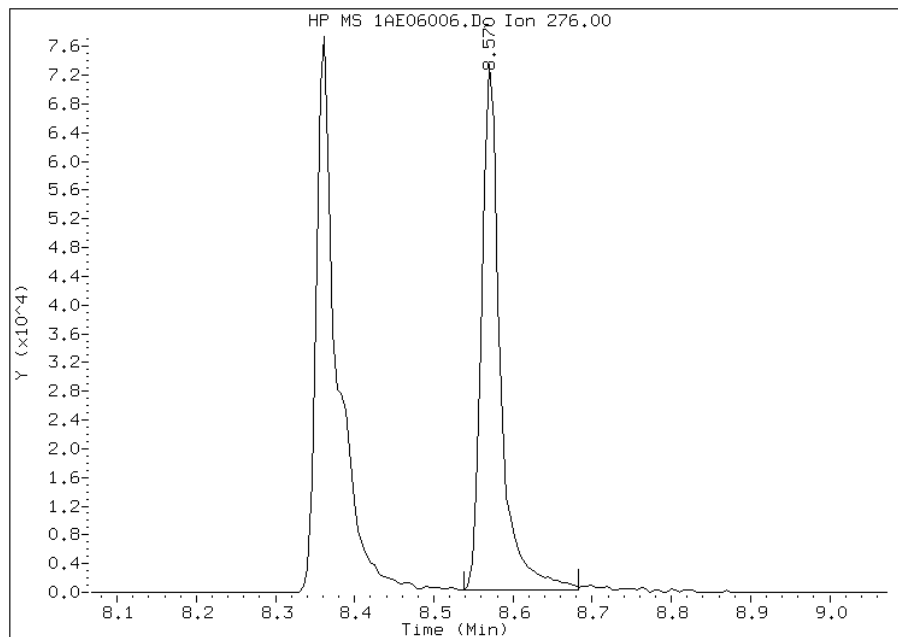


# Manual Integration Report

Data File: 1AE06006.D  
Inj. Date and Time: 06-MAY-2013 11:11  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 05/06/2013

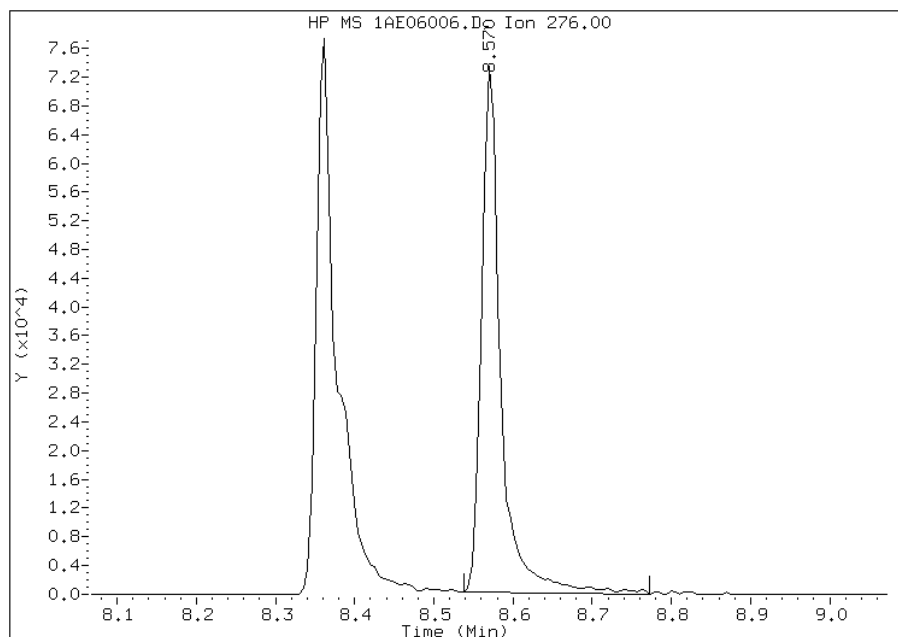
## Processing Integration Results

RT: 8.57  
Response: 119162  
Amount: 5  
Conc: 5



## Manual Integration Results

RT: 8.57  
Response: 122623  
Amount: 5  
Conc: 5



Manually Integrated By: cantins  
Modification Date: 06-May-2013 12:57  
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06007.D  
 Lab Smp Id: IC-1531400  
 Inj Date : 06-MAY-2013 11:26  
 Operator : SCC  
 Smp Info : IC-1531400  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06007.D  
 Meth Date : 06-May-2013 12:59 BSMA5973.i Quant Type: ISTD  
 Cal Date : 06-MAY-2013 11:11 Cal File: 1AE06006.D  
 Als bottle: 7 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT	SIG	AMOUNTS					ON-COL
			MASS	RT	EXP RT	REL RT	RESPONSE	
* 1 Naphthalene-d8	136		2.544	2.544	(1.000)	1250785	40.0000	
* 6 Acenaphthene-d10	164		3.569	3.575	(1.000)	625378	40.0000	
* 10 Phenanthrene-d10	188		4.515	4.520	(1.000)	1057947	40.0000	
\$ 14 o-Terphenyl	230		4.814	4.819	(1.066)	154345	10.0000	10.1934
* 18 Chrysene-d12	240		6.534	6.534	(1.000)	990305	40.0000	
* 23 Perylene-d12	264		7.613	7.629	(1.000)	956248	40.0000	
2 Naphthalene	128		2.554	2.554	(1.004)	301663	10.0000	10.2415
3 2-Methylnaphthalene	141		2.960	2.960	(1.164)	150716	10.0000	10.0682
4 1-Methylnaphthalene	142		3.014	3.014	(1.185)	180349	10.0000	10.0514
5 Acenaphthylene	152		3.484	3.484	(0.976)	305312	10.0000	10.3897
7 Acenaphthene	154		3.586	3.591	(1.004)	170588	10.0000	10.1084
9 Fluorene	166		3.901	3.901	(1.093)	192234	10.0000	9.9956
11 Phenanthrene	178		4.531	4.536	(1.004)	258887	10.0000	9.8774
12 Anthracene	178		4.568	4.568	(1.012)	283812	10.0000	10.1653
13 Carbazole	167		4.702	4.702	(1.041)	256614	10.0000	10.2225
15 Fluoranthene	202		5.396	5.396	(1.195)	302969	10.0000	10.0480
16 Pyrene	202		5.557	5.562	(0.850)	327292	10.0000	10.2817
17 Benzo(a)anthracene	228		6.518	6.523	(0.998)	257936	10.0000	9.2676
19 Chrysene	228		6.550	6.550	(1.002)	314241	10.0000	10.0348
20 Benzo(b)fluoranthene	252		7.336	7.346	(0.964)	236568	10.0000	9.3596
21 Benzo(k)fluoranthene	252		7.357	7.368	(0.966)	337219	10.0000	10.7544
22 Benzo(a)pyrene	252		7.565	7.576	(0.994)	263990	10.0000	10.1700
24 Indeno(1,2,3-cd)pyrene	276		8.361	8.388	(1.098)	216924	10.0000	9.9754(M)
25 Dibenzo(a,h)anthracene	278		8.388	8.415	(1.102)	224688	10.0000	10.0798
26 Benzo(g,h,i)perylene	276		8.575	8.602	(1.126)	232133	10.0000	9.9268(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AE06007.D

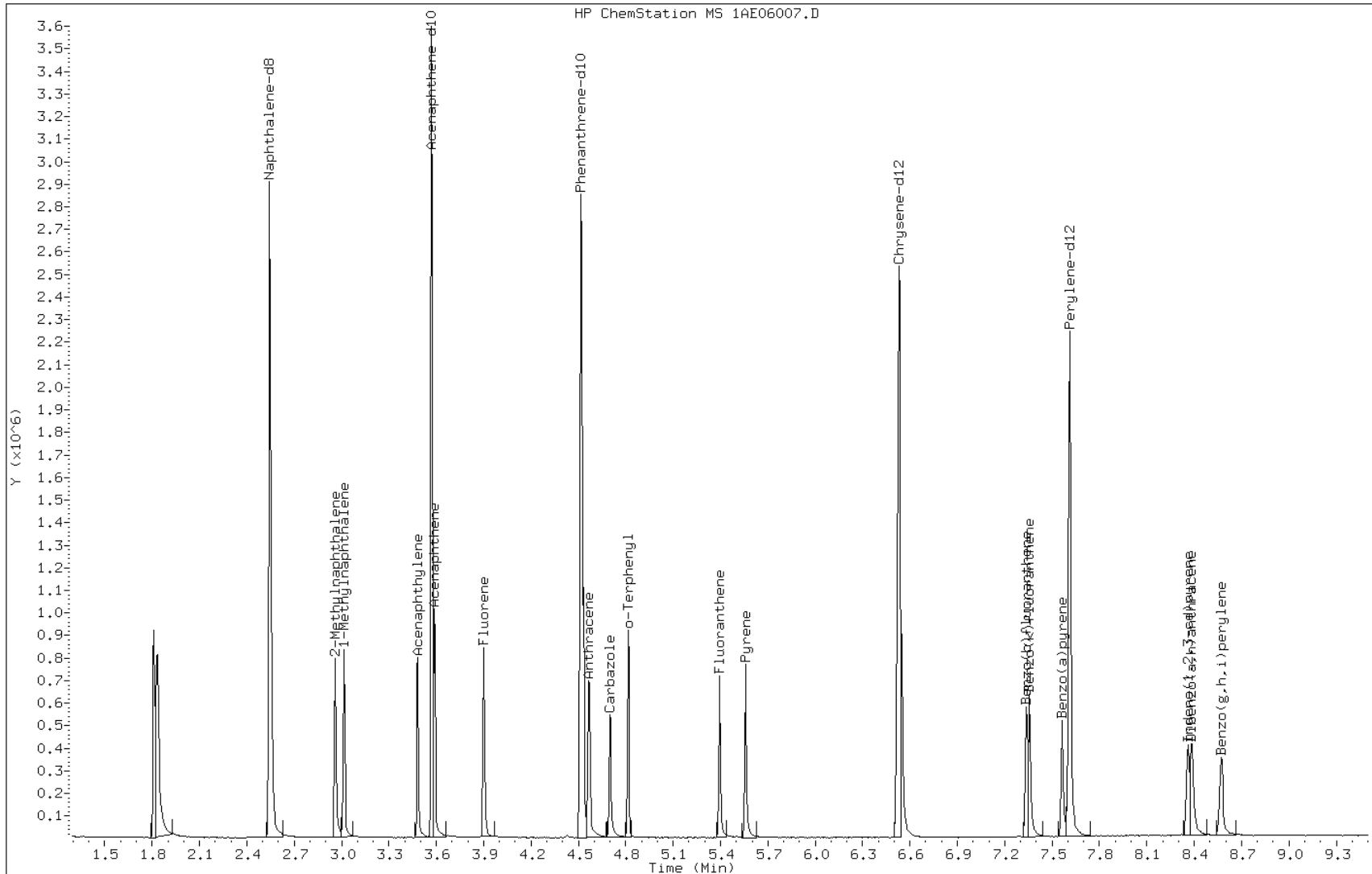
Date: 06-MAY-2013 11:26

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531400

Operator: SCC

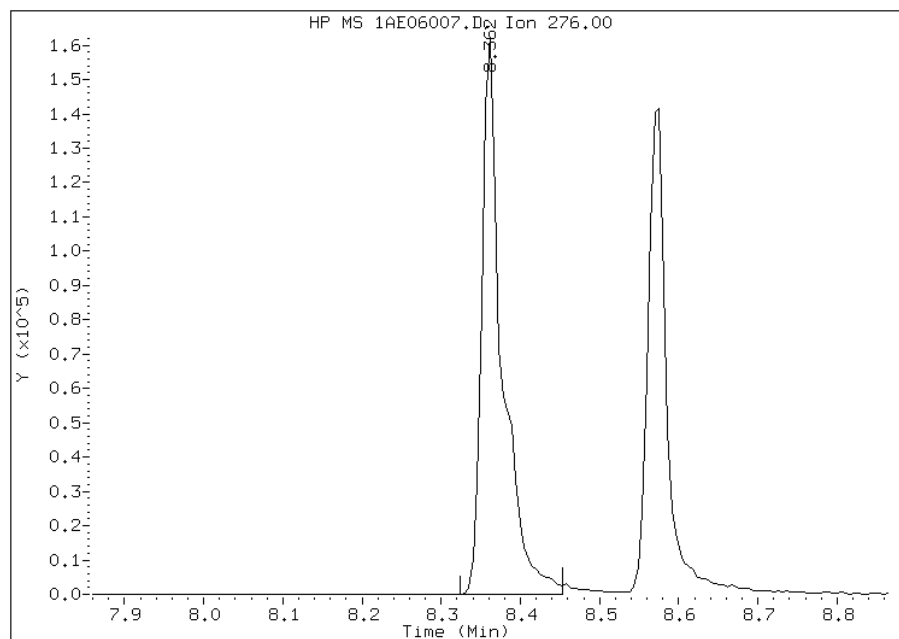


# Manual Integration Report

Data File: 1AE06007.D  
Inj. Date and Time: 06-MAY-2013 11:26  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/06/2013

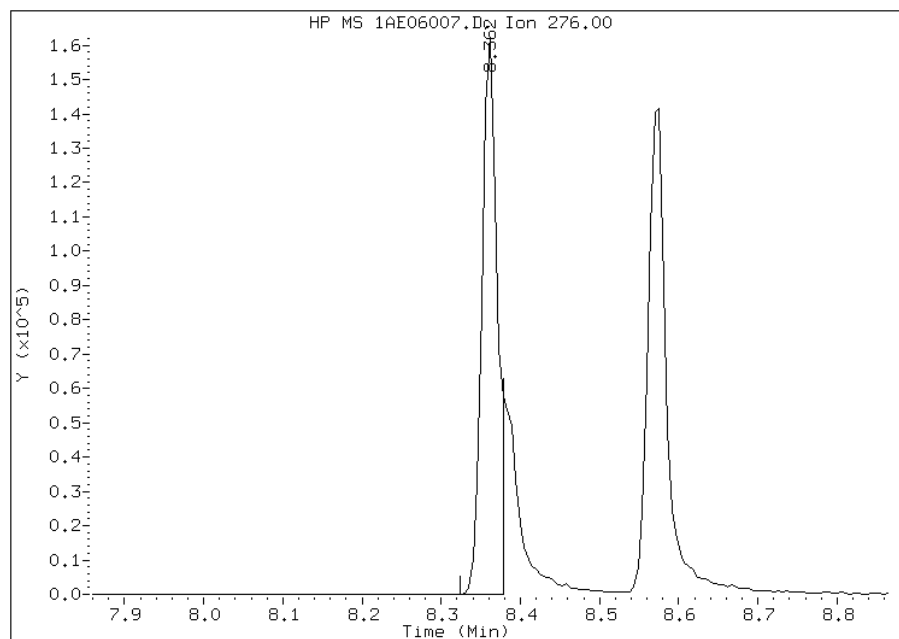
## Processing Integration Results

RT: 8.36  
Response: 287823  
Amount: 13  
Conc: 13



## Manual Integration Results

RT: 8.36  
Response: 216924  
Amount: 10  
Conc: 10



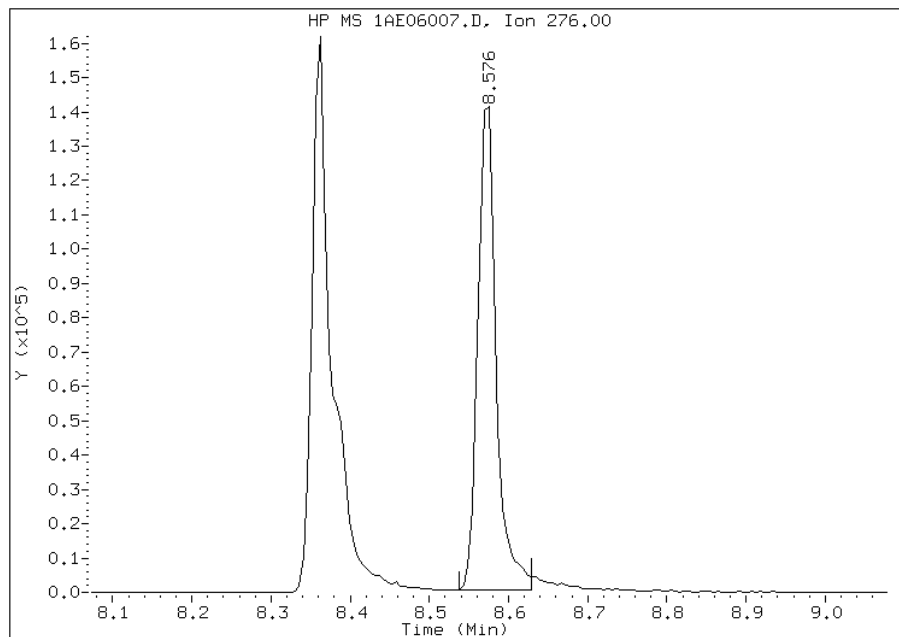
Manually Integrated By: cantins  
Modification Date: 06-May-2013 12:58  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AE06007.D  
Inj. Date and Time: 06-MAY-2013 11:26  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 05/06/2013

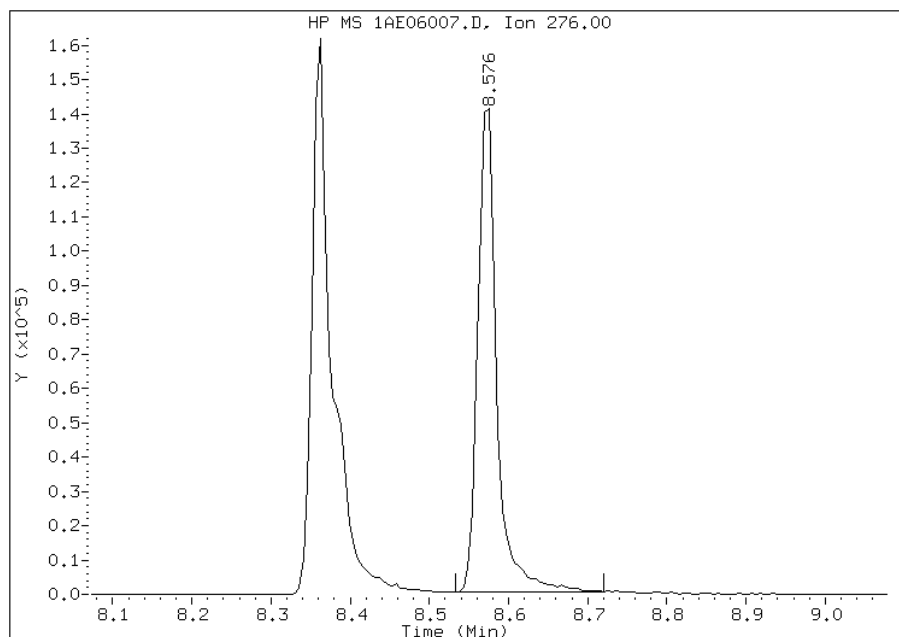
## Processing Integration Results

RT: 8.58  
Response: 224520  
Amount: 9  
Conc: 9



## Manual Integration Results

RT: 8.58  
Response: 232133  
Amount: 10  
Conc: 10



Manually Integrated By: cantins  
Modification Date: 06-May-2013 12:58  
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06008.D  
 Lab Smp Id: IC-1531402  
 Inj Date : 06-MAY-2013 11:41  
 Operator : SCC  
 Smp Info : IC-1531402  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m  
 Meth Date : 06-May-2013 12:59 BSMA5973.i Quant Type: ISTD  
 Cal Date : 06-MAY-2013 11:26 Cal File: 1AE06007.D  
 Als bottle: 8 Calibration Sample, Level: 6  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)
* 1 Naphthalene-d8	136	2.543	2.544	(1.000)	1147240	40.0000	
* 6 Acenaphthene-d10	164	3.569	3.575	(1.000)	572111	40.0000	
* 10 Phenanthrene-d10	188	4.519	4.520	(1.000)	993324	40.0000	
\$ 14 o-Terphenyl	230	4.819	4.819	(1.066)	410873	30.0000	28.9008
* 18 Chrysene-d12	240	6.533	6.534	(1.000)	899878	40.0000	
* 23 Perylene-d12	264	7.618	7.629	(1.000)	841369	40.0000	
2 Naphthalene	128	2.554	2.554	(1.004)	837016	30.0000	30.9816
3 2-Methylnaphthalene	141	2.959	2.960	(1.164)	419604	30.0000	30.5606
4 1-Methylnaphthalene	142	3.018	3.014	(1.187)	490403	30.0000	29.7987
5 Acenaphthylene	152	3.483	3.484	(0.976)	801835	30.0000	29.8269
7 Acenaphthene	154	3.590	3.591	(1.006)	419418	30.0000	27.1672
9 Fluorene	166	3.905	3.901	(1.094)	547833	30.0000	31.1380
11 Phenanthrene	178	4.535	4.536	(1.004)	711095	30.0000	28.8959
12 Anthracene	178	4.567	4.568	(1.011)	778079	30.0000	29.6817
13 Carbazole	167	4.701	4.702	(1.040)	692413	30.0000	29.3775
15 Fluoranthene	202	5.396	5.396	(1.194)	862141	30.0000	30.4532
16 Pyrene	202	5.561	5.562	(0.851)	882847	30.0000	30.5213
17 Benzo(a)anthracene	228	6.523	6.523	(0.998)	735367	30.0000	29.0768
19 Chrysene	228	6.555	6.550	(1.003)	809687	30.0000	28.4545
20 Benzo(b)fluoranthene	252	7.345	7.346	(0.964)	752076	30.0000	33.8181
21 Benzo(k)fluoranthene	252	7.367	7.368	(0.967)	813163	30.0000	29.4740
22 Benzo(a)pyrene	252	7.570	7.576	(0.994)	732885	30.0000	32.0890
24 Indeno(1,2,3-cd)pyrene	276	8.376	8.388	(1.100)	621385	30.0000	32.4764
25 Dibenzo(a,h)anthracene	278	8.403	8.415	(1.103)	609787	30.0000	31.0911
26 Benzo(g,h,i)perylene	276	8.590	8.602	(1.128)	633546	30.0000	30.7920

Data File: 1AE06008.D

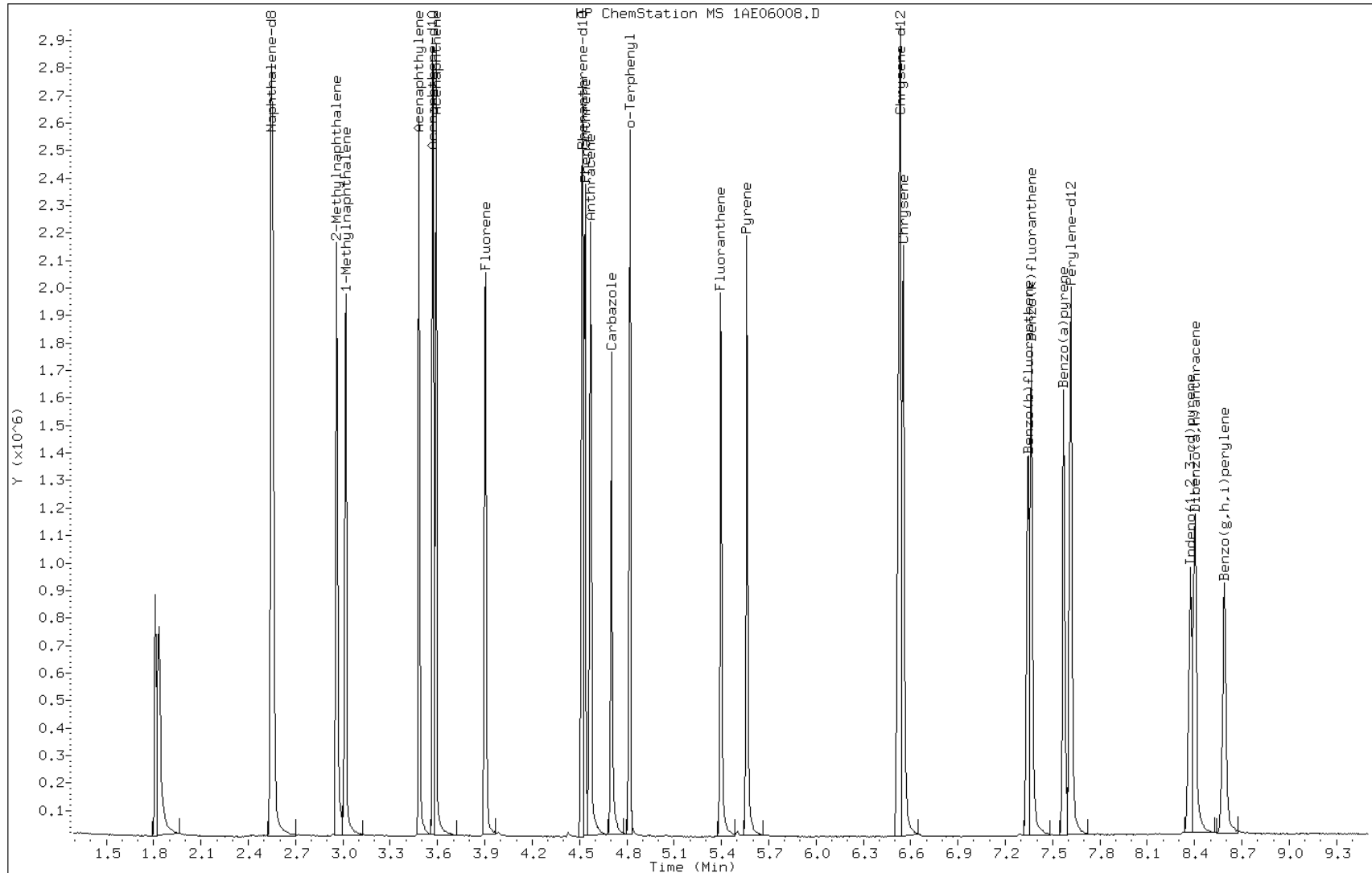
Date: 06-MAY-2013 11:41

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531402

Operator: SCC



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06009.D  
 Lab Smp Id: IC-1531403  
 Inj Date : 06-MAY-2013 11:56  
 Operator : SCC  
 Smp Info : IC-1531403  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06009.D  
 Meth Date : 06-May-2013 12:59 BSMA5973.i Quant Type: ISTD  
 Cal Date : 06-MAY-2013 11:41 Cal File: 1AE06008.D  
 Als bottle: 9 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
								CAL-AMT	ON-COL
								(ug/ml)	(ug/ml)
* 1 Naphthalene-d8			136	2.548	2.544	(1.000)	1212217	40.0000	
* 6 Acenaphthene-d10			164	3.574	3.575	(1.000)	607535	40.0000	
* 10 Phenanthrene-d10			188	4.519	4.520	(1.000)	1039476	40.0000	
\$ 14 o-Terphenyl			230	4.824	4.819	(1.067)	697232	50.0000	46.8659
* 18 Chrysene-d12			240	6.539	6.534	(1.000)	921157	40.0000	
* 23 Perylene-d12			264	7.618	7.629	(1.000)	881033	40.0000	
2 Naphthalene			128	2.559	2.554	(1.004)	1397244	50.0000	48.9459
3 2-Methylnaphthalene			141	2.965	2.960	(1.163)	745285	50.0000	51.3711(A)
4 1-Methylnaphthalene			142	3.018	3.014	(1.184)	770690	50.0000	44.3198
5 Acenaphthylene			152	3.483	3.484	(0.975)	1396662	50.0000	48.9242
7 Acenaphthene			154	3.590	3.591	(1.004)	743745	50.0000	45.3661
9 Fluorene			166	3.905	3.901	(1.093)	887590	50.0000	47.5077
11 Phenanthrene			178	4.535	4.536	(1.004)	1241024	50.0000	48.1910
12 Anthracene			178	4.573	4.568	(1.012)	1388133	50.0000	50.6026(AM)
13 Carbazole			167	4.706	4.702	(1.041)	1222783	50.0000	49.5765
15 Fluoranthene			202	5.401	5.396	(1.195)	1515990	50.0000	51.1715(A)
16 Pyrene			202	5.566	5.562	(0.851)	1521255	50.0000	51.3772(A)
17 Benzo(a)anthracene			228	6.528	6.523	(0.998)	1323236	50.0000	51.1129(A)
19 Chrysene			228	6.560	6.550	(1.003)	1361261	50.0000	46.7332
20 Benzo(b)fluoranthene			252	7.351	7.346	(0.965)	1327571	50.0000	57.0086(A)
21 Benzo(k)fluoranthene			252	7.372	7.368	(0.968)	1352818	50.0000	46.8269(H)
22 Benzo(a)pyrene			252	7.580	7.576	(0.995)	1252292	50.0000	52.3625(A)
24 Indeno(1,2,3-cd)pyrene			276	8.382	8.388	(1.100)	1152680	50.0000	57.5322(A)
25 Dibenzo(a,h)anthracene			278	8.414	8.415	(1.104)	1076428	50.0000	52.4129(A)
26 Benzo(g,h,i)perylene			276	8.606	8.602	(1.130)	1116517	50.0000	51.8227(A)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.



Data File: 1AE06009.D

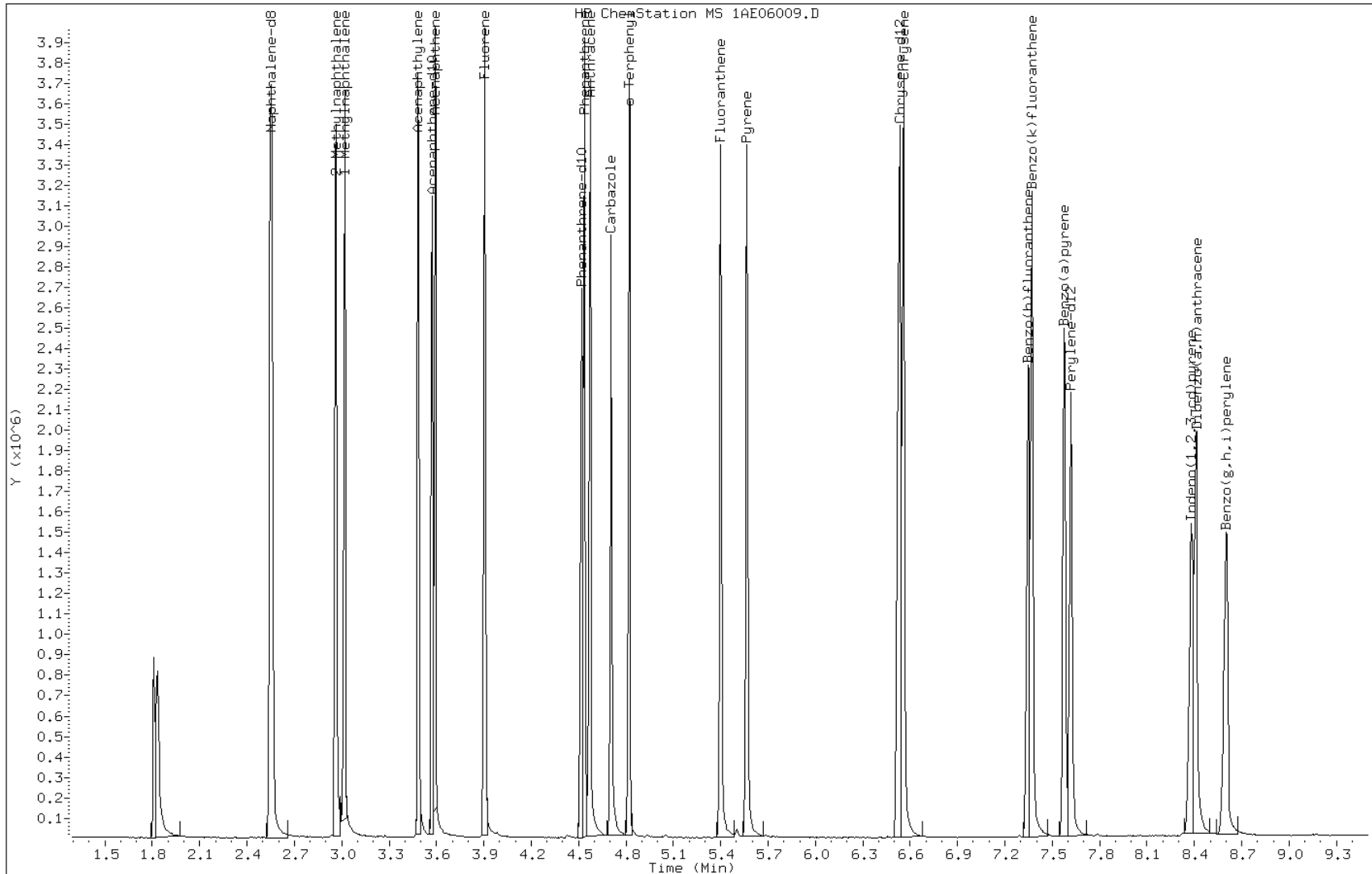
Date: 06-MAY-2013 11:56

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531403

Operator: SCC

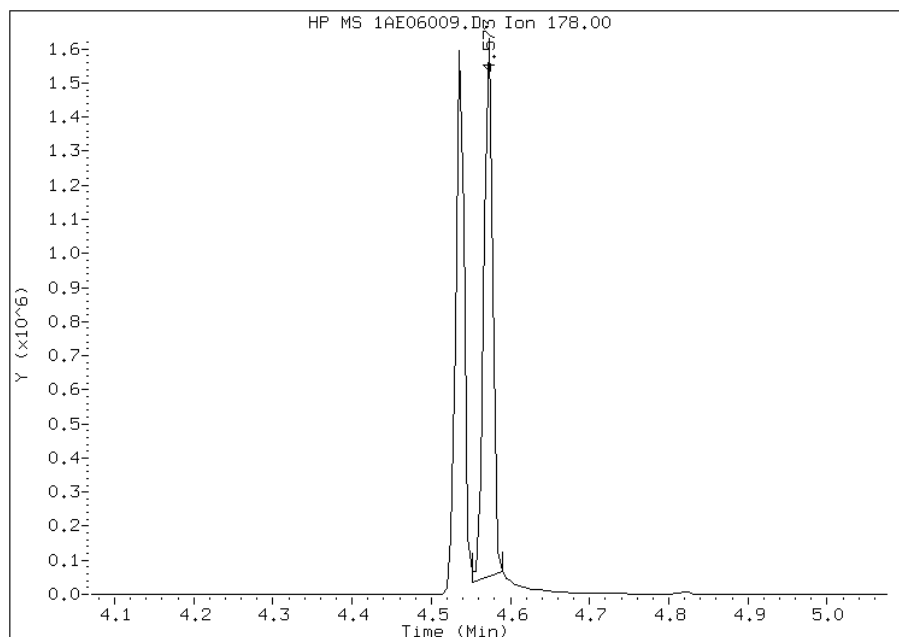


Manual Integration Report

Data File: 1AE06009.D  
Inj. Date and Time: 06-MAY-2013 11:56  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 12 Anthracene  
CAS #: 120-12-7  
Report Date: 05/06/2013

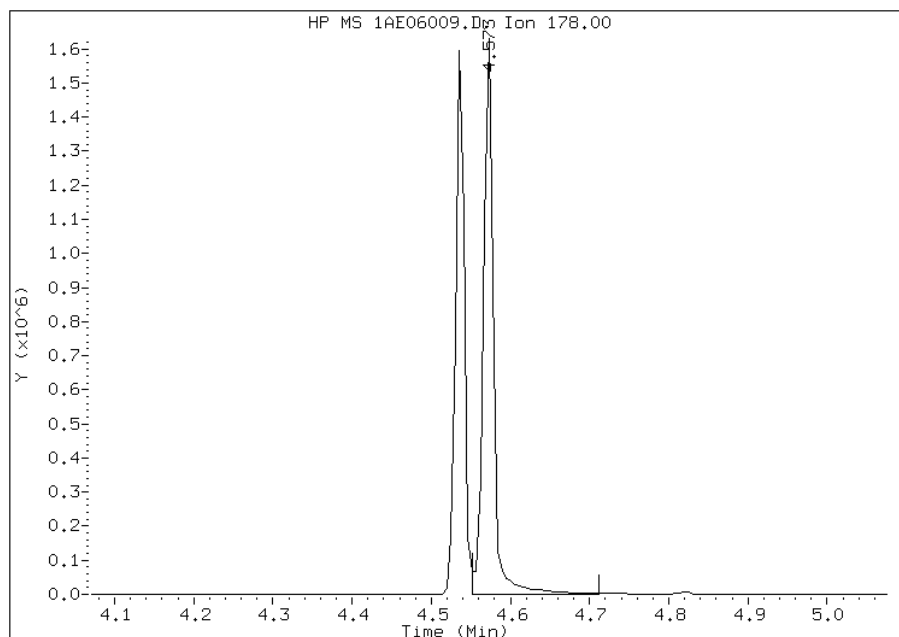
Processing Integration Results

RT: 4.57  
Response: 1176629  
Amount: 43  
Conc: 43



Manual Integration Results

RT: 4.57  
Response: 1388133  
Amount: 51  
Conc: 51



Manually Integrated By: cantins  
Modification Date: 06-May-2013 12:59  
Manual Integration Reason: Baseline Event

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Lab Sample ID: ICV 660-136892/10 Calibration Date: 04/26/2013 11:49  
 Instrument ID: BSMA5973 Calib Start Date: 04/26/2013 10:03  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/26/2013 11:34  
 Lab File ID: 1AD26010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.000	1.013	0.0000	20300	20000	1.3	35.0
2-Methylnaphthalene	Ave	0.5733	0.5866	0.0000	20500	20000	2.3	35.0
1-Methylnaphthalene	Ave	0.6351	0.6716	0.0000	21100	20000	5.7	35.0
Acenaphthylene	Ave	2.338	2.056	0.0000	17600	20000	-12.0	35.0
Acenaphthene	Ave	1.226	1.124	0.0000	18300	20000	-8.3	35.0
Fluorene	Ave	1.475	1.361	0.0000	18500	20000	-7.7	35.0
Phenanthrene	Ave	1.159	1.010	0.0000	17400	20000	-12.8	35.0
Anthracene	Ave	1.205	1.090	0.0000	18100	20000	-9.5	35.0
Carbazole	Ave	1.162	0.9708	0.0000	16700	20000	-16.5	35.0
Fluoranthene	Ave	1.338	1.312	0.0000	19600	20000	-1.9	35.0
Pyrene	Ave	1.526	1.466	0.0000	19200	20000	-4.0	35.0
Benzo[a]anthracene	Ave	1.306	1.270	0.0000	19400	20000	-2.8	35.0
Chrysene	Ave	1.325	1.145	0.0000	17300	20000	-13.6	35.0
Benzo[b]fluoranthene	Ave	1.214	1.285	0.0000	21200	20000	5.8	35.0
Benzo[k]fluoranthene	Ave	1.396	1.175	0.0000	16800	20000	-15.8	35.0
Benzo[a]pyrene	Ave	1.208	1.102	0.0000	18200	20000	-8.8	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.141	1.134	0.0000	19900	20000	-0.6	35.0
Dibenz(a,h)anthracene	Ave	1.061	1.182	0.0000	22300	20000	11.3	35.0
Benzo[g,h,i]perylene	Ave	1.277	1.224	0.0000	19200	20000	-4.1	35.0
o-Terphenyl	Ave	0.6543	0.5935	0.0000	18100	20000	-9.3	35.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26010.D  
 Lab Smp Id: ICV-1448440  
 Inj Date : 26-APR-2013 11:49  
 Operator : SCC  
 Smp Info : ICV-1448440  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m  
 Meth Date : 26-Apr-2013 13:03 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 10 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula: Amt \* DF \* 1/Vi \* Vt/Vo \* A \* B \* C \* D \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL ( ug/l)
* 1 Naphthalene-d8	136		2.581	2.581	(1.000)	2252499	40.0000		
* 6 Acenaphthene-d10	164		3.612	3.606	(1.000)	1126401	40.0000		
* 10 Phenanthrene-d10	188		4.563	4.563	(1.000)	2015970	40.0000		
\$ 14 o-Terphenyl	230		4.863	4.862	(1.066)	598212	18.1419	18.1418	
* 18 Chrysene-d12	240		6.583	6.582	(1.000)	1842442	40.0000		
* 23 Perylene-d12	264		7.667	7.666	(1.000)	2029776	40.0000		
2 Naphthalene	128		2.592	2.591	(1.004)	1140891	20.2617	20.2616	
3 2-Methylnaphthalene	141		2.998	2.997	(1.161)	660618	20.4636	20.4636	
4 1-Methylnaphthalene	142		3.052	3.051	(1.182)	756416	21.1488	21.1487	
5 Acenaphthylene	152		3.522	3.521	(0.975)	1158011	17.5909	17.5909	
7 Acenaphthene	154		3.629	3.628	(1.004)	633033	18.3366	18.3366	
9 Fluorene	166		3.944	3.943	(1.092)	766644	18.4575	18.4574	
11 Phenanthrene	178		4.579	4.579	(1.004)	1018538	17.4411	17.4411	
12 Anthracene	178		4.611	4.611	(1.011)	1099004	18.0989	18.0989	
13 Carbazole	167		4.734	4.739	(1.037)	978595	16.7058	16.7058(M)	
15 Fluoranthene	202		5.439	5.439	(1.192)	1322879	19.6122	19.6122	
16 Pyrene	202		5.605	5.604	(0.851)	1350229	19.2093	19.2092	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL ( ug/l)
=====	=====		=====	=====	=====	=====	=====	=====
17 Benzo(a)anthracene	228		6.572	6.566	(0.998)	1170041	19.4460	19.4459
19 Chrysene	228		6.604	6.598	(1.003)	1054888	17.2812	17.2812
20 Benzo(b)fluoranthene	252		7.389	7.389	(0.964)	1303989	21.1608	21.1608
21 Benzo(k)fluoranthene	252		7.411	7.410	(0.967)	1192511	16.8313	16.8313
22 Benzo(a)pyrene	252		7.614	7.613	(0.993)	1118521	18.2457	18.2456
24 Indeno(1,2,3-cd)pyrene	276		8.426	8.430	(1.099)	1150730	19.8802	19.8802
25 Dibenzo(a,h)anthracene	278		8.458	8.457	(1.103)	1199380	22.2696	22.2695
26 Benzo(g,h,i)perylene	276		8.650	8.654	(1.128)	1241990	19.1718	19.1717

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AD26010.D

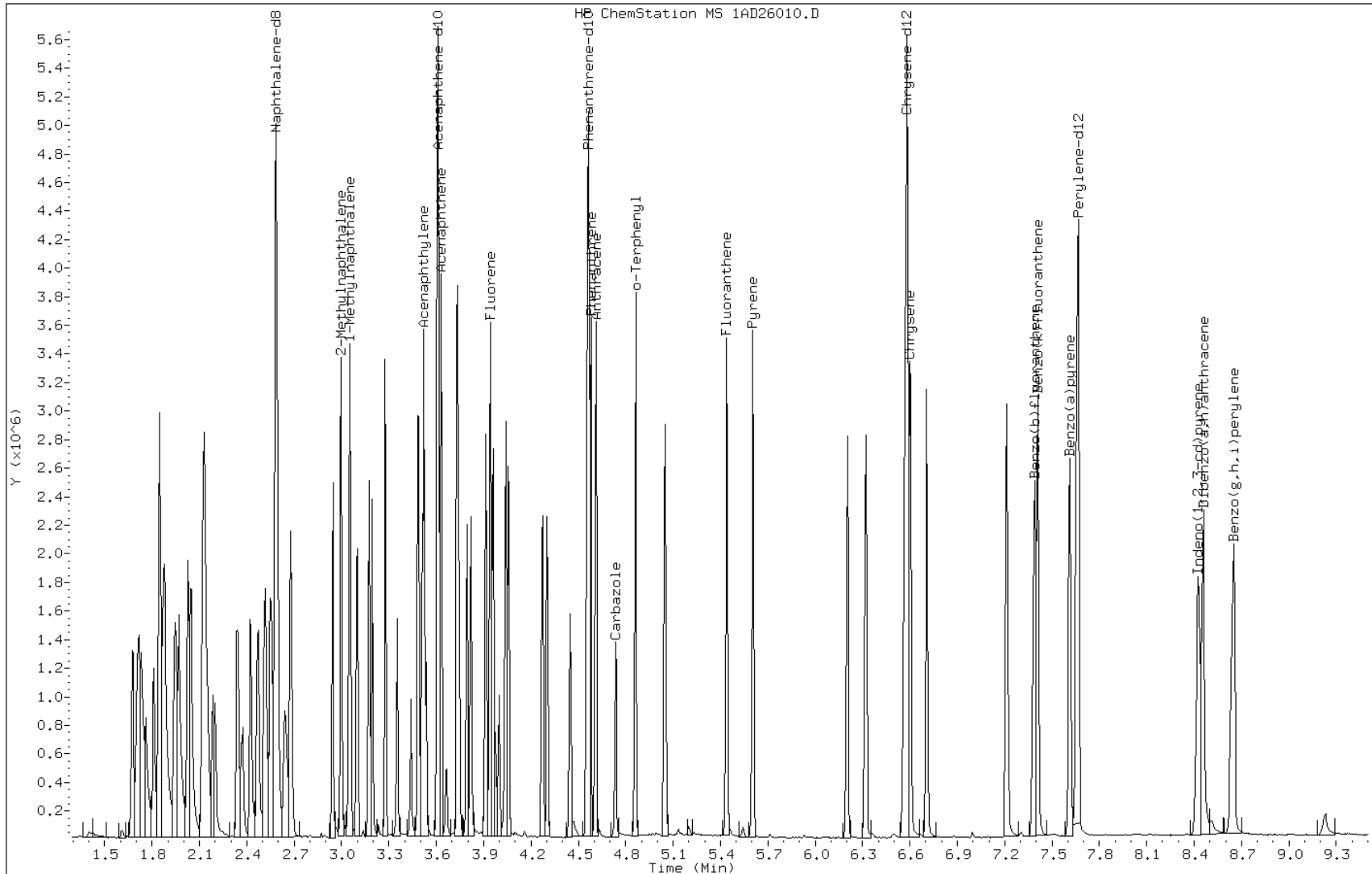
Date: 26-APR-2013 11:49

Client ID:

Instrument: BSMA5973.i

Sample Info: ICV-1448440

Operator: SCC

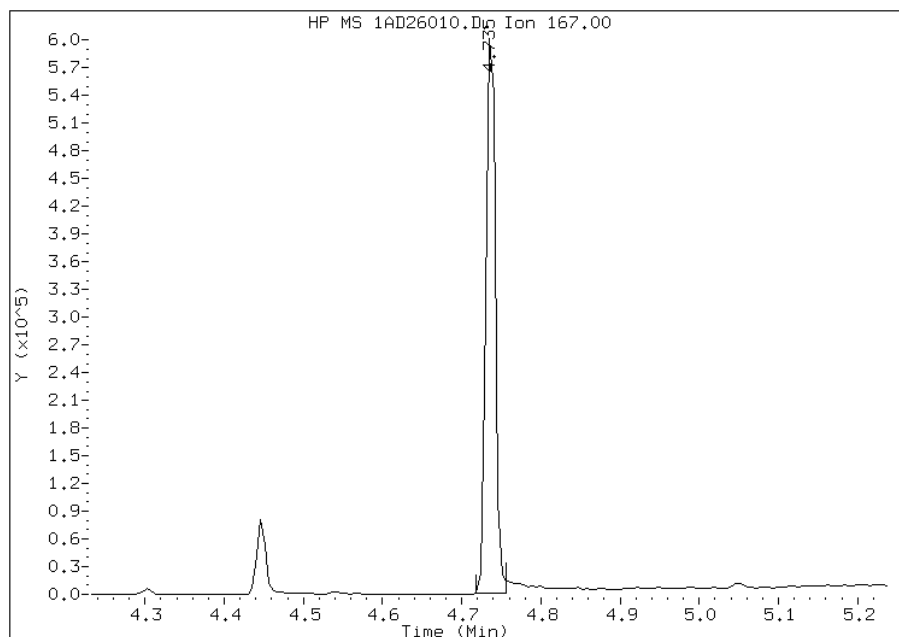


Manual Integration Report

Data File: 1AD26010.D  
Inj. Date and Time: 26-APR-2013 11:49  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 13 Carbazole  
CAS #: 86-74-8  
Report Date: 04/26/2013

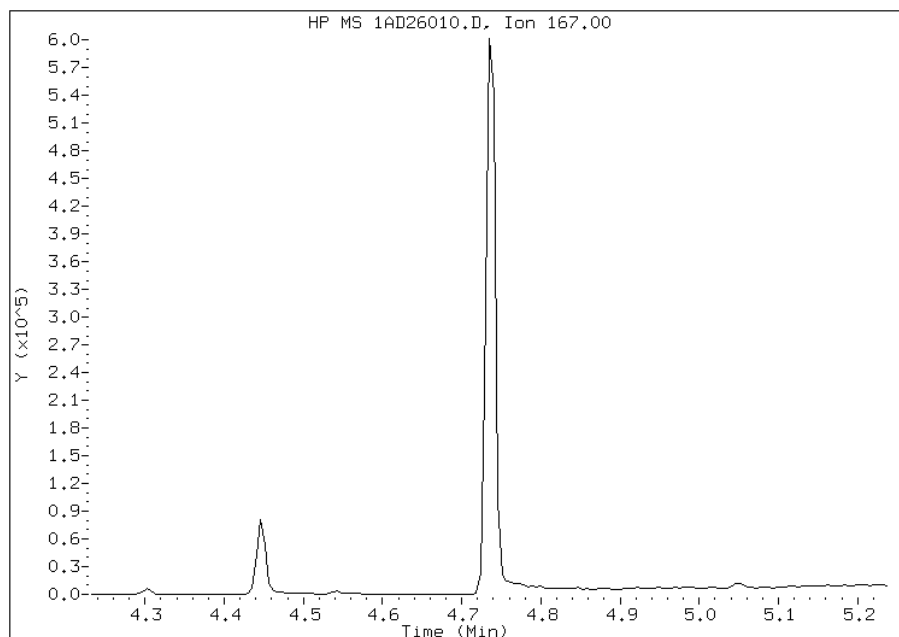
Processing Integration Results

RT: 4.73  
Response: 486883  
Amount: 8  
Conc: 8



Manual Integration Results

RT: 4.73  
Response: 978595  
Amount: 17  
Conc: 17



Manually Integrated By: cantins  
Modification Date: 26-Apr-2013 13:06  
Manual Integration Reason: Baseline Event

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Lab Sample ID: CCVIS 660-136977/3 Calibration Date: 04/30/2013 11:37  
 Instrument ID: BSMA5973 Calib Start Date: 04/26/2013 10:03  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/26/2013 11:34  
 Lab File ID: 1AD30003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.000	0.9812	0.0000	19600	20000	-1.9	20.0
2-Methylnaphthalene	Ave	0.5733	0.5238	0.0000	18300	20000	-8.6	20.0
1-Methylnaphthalene	Ave	0.6351	0.5891	0.0000	18500	20000	-7.3	20.0
Acenaphthylene	Ave	2.338	2.069	0.0000	17700	20000	-11.5	20.0
Acenaphthene	Ave	1.226	1.082	0.0000	17700	20000	-11.7	20.0
Fluorene	Ave	1.475	1.326	0.0000	18000	20000	-10.1	20.0
Phenanthrene	Ave	1.159	1.042	0.0000	18000	20000	-10.1	20.0
Anthracene	Ave	1.205	1.050	0.0000	17400	20000	-12.8	20.0
Carbazole	Ave	1.162	1.003	0.0000	17300	20000	-13.7	20.0
Fluoranthene	Ave	1.338	1.230	0.0000	18400	20000	-8.1	20.0
Pyrene	Ave	1.526	1.427	0.0000	18700	20000	-6.5	20.0
Benzo[a]anthracene	Ave	1.306	1.207	0.0000	18500	20000	-7.6	20.0
Chrysene	Ave	1.325	1.143	0.0000	17200	20000	-13.8	20.0
Benzo[b]fluoranthene	Ave	1.214	1.280	0.0000	21100	20000	5.4	20.0
Benzo[k]fluoranthene	Ave	1.396	1.181	0.0000	16900	20000	-15.4	20.0
Benzo[a]pyrene	Ave	1.208	1.170	0.0000	19400	20000	-3.1	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.141	1.266	0.0000	22200	20000	10.9	20.0
Dibenz(a,h)anthracene	Ave	1.061	1.087	0.0000	20500	20000	2.5	20.0
Benzo[g,h,i]perylene	Ave	1.277	1.230	0.0000	19300	20000	-3.7	20.0
o-Terphenyl	Ave	0.6543	0.5996	0.0000	18300	20000	-8.4	20.0



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMA5973.i\1A043013.b\1AD30003.D  
 Lab Smp Id: CCVIS-1531401  
 Inj Date : 30-APR-2013 11:37  
 Operator : SCC  
 Smp Info : CCVIS-1531401  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMA5973.i\1A043013.b\a-bFASTPAHi-m.m  
 Meth Date : 30-Apr-2013 11:48 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 3 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.568	2.568	(1.000)	1567398	40.0000	
* 6 Acenaphthene-d10	164	3.599	3.599	(1.000)	781979	40.0000	
* 10 Phenanthrene-d10	188	4.550	4.550	(1.000)	1319676	40.0000	
\$ 14 o-Terphenyl	230	4.854	4.854	(1.067)	395616	20.0000	18.3281
* 18 Chrysene-d12	240	6.574	6.574	(1.000)	1172315	40.0000	
* 23 Perylene-d12	264	7.659	7.659	(1.000)	1161541	40.0000	
2 Naphthalene	128	2.578	2.578	(1.004)	768927	20.0000	19.6246
3 2-Methylnaphthalene	141	2.984	2.984	(1.162)	410478	20.0000	18.2729
4 1-Methylnaphthalene	142	3.043	3.043	(1.185)	461643	20.0000	18.5488
5 Acenaphthylene	152	3.513	3.513	(0.976)	809077	20.0000	17.7036
7 Acenaphthene	154	3.620	3.620	(1.006)	423193	20.0000	17.6574
9 Fluorene	166	3.930	3.930	(1.092)	518613	20.0000	17.9853
11 Phenanthrene	178	4.566	4.566	(1.004)	687484	20.0000	17.9836
12 Anthracene	178	4.603	4.603	(1.012)	692889	20.0000	17.4314
13 Carbazole	167	4.731	4.731	(1.040)	661502	20.0000	17.2509
15 Fluoranthene	202	5.431	5.431	(1.194)	811697	20.0000	18.3830
16 Pyrene	202	5.597	5.597	(0.851)	836663	20.0000	18.7069
17 Benzo(a)anthracene	228	6.558	6.558	(0.998)	707764	20.0000	18.4870
19 Chrysene	228	6.590	6.590	(1.002)	669988	20.0000	17.2498
20 Benzo(b)fluoranthene	252	7.381	7.381	(0.964)	743584	20.0000	21.0863
21 Benzo(k)fluoranthene	252	7.402	7.402	(0.967)	685954	20.0000	16.9186
22 Benzo(a)pyrene	252	7.611	7.611	(0.994)	679708	20.0000	19.3754
24 Indeno(1,2,3-cd)pyrene	276	8.423	8.423	(1.100)	735012	20.0000	22.1899
25 Dibenzo(a,h)anthracene	278	8.449	8.449	(1.103)	631514	20.0000	20.4904
26 Benzo(g,h,i)perylene	276	8.647	8.647	(1.129)	714124	20.0000	19.2633

Data File: 1AD30003.D

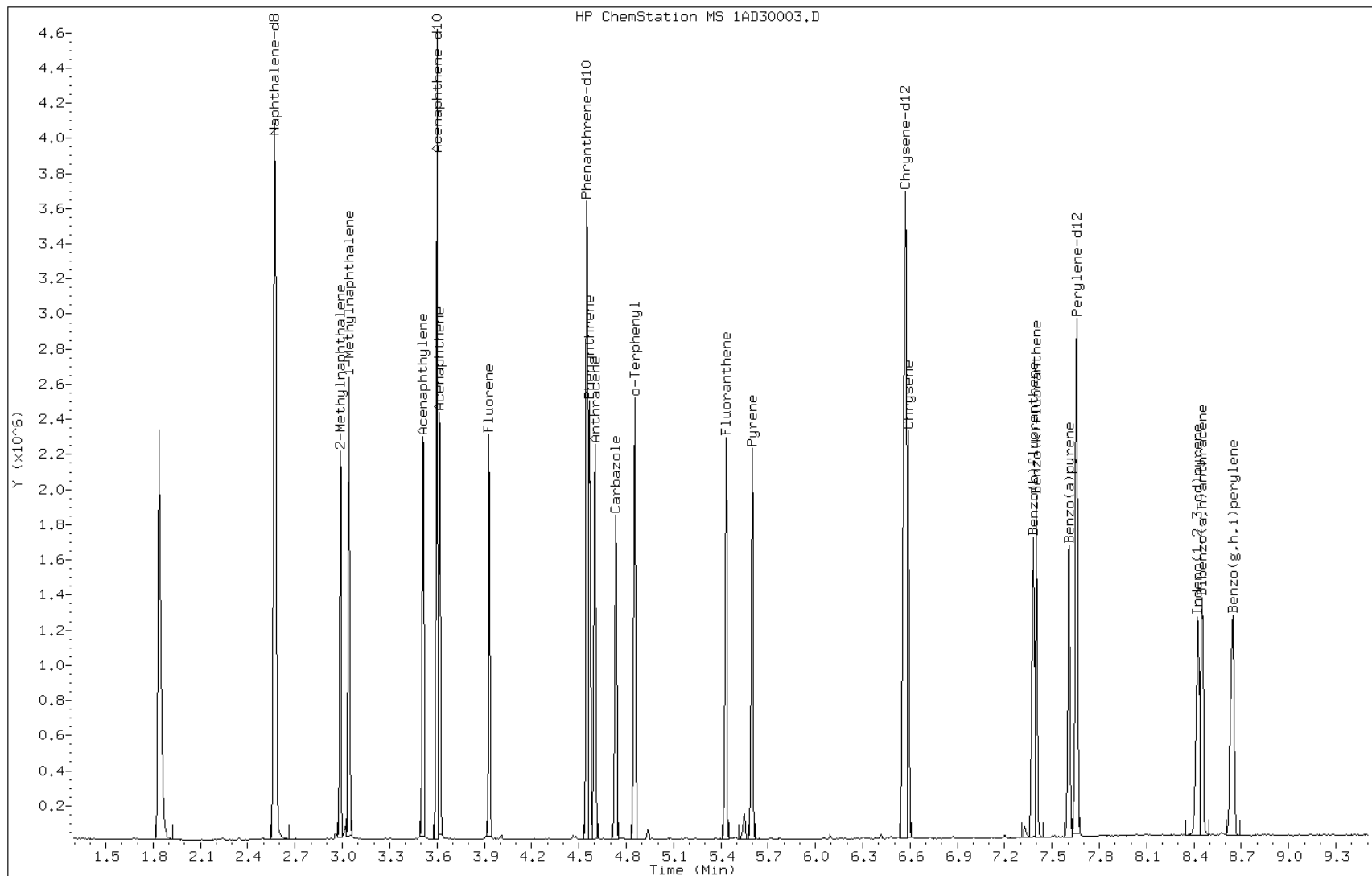
Date: 30-APR-2013 11:37

Client ID:

Instrument: BSMA5973.i

Sample Info: CCVIS-1531401

Operator: SCC



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Lab Sample ID: CCVIS 660-137001/7 Calibration Date: 05/01/2013 14:15  
 Instrument ID: BSMA5973 Calib Start Date: 04/26/2013 10:03  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/26/2013 11:34  
 Lab File ID: 1AE01006.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.000	0.9460	0.0000	18900	20000	-5.4	20.0
2-Methylnaphthalene	Ave	0.5733	0.5291	0.0000	18500	20000	-7.7	20.0
1-Methylnaphthalene	Ave	0.6351	0.5928	0.0000	18700	20000	-6.7	20.0
Acenaphthylene	Ave	2.338	2.135	0.0000	18300	20000	-8.7	20.0
Acenaphthene	Ave	1.226	1.057	0.0000	17200	20000	-13.8	20.0
Fluorene	Ave	1.475	1.338	0.0000	18100	20000	-9.3	20.0
Phenanthrene	Ave	1.159	1.014	0.0000	17500	20000	-12.5	20.0
Anthracene	Ave	1.205	1.093	0.0000	18100	20000	-9.3	20.0
Carbazole	Ave	1.162	1.024	0.0000	17600	20000	-11.9	20.0
Fluoranthene	Ave	1.338	1.252	0.0000	18700	20000	-6.4	20.0
Pyrene	Ave	1.526	1.448	0.0000	19000	20000	-5.1	20.0
Benzo[a]anthracene	Ave	1.306	1.205	0.0000	18400	20000	-7.8	20.0
Chrysene	Ave	1.325	1.181	0.0000	17800	20000	-10.9	20.0
Benzo[b]fluoranthene	Ave	1.214	1.314	0.0000	21600	20000	8.2	20.0
Benzo[k]fluoranthene	Ave	1.396	1.217	0.0000	17400	20000	-12.8	20.0
Benzo[a]pyrene	Ave	1.208	1.192	0.0000	19700	20000	-1.3	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.141	1.219	0.0000	21400	20000	6.9	20.0
Dibenz(a,h)anthracene	Ave	1.061	1.035	0.0000	19500	20000	-2.5	20.0
Benzo[g,h,i]perylene	Ave	1.277	1.129	0.0000	17700	20000	-11.5	20.0
o-Terphenyl	Ave	0.6543	0.5915	0.0000	18100	20000	-9.6	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01006.D  
 Lab Smp Id: CCVIS-1531401  
 Inj Date : 01-MAY-2013 14:15  
 Operator : SCC  
 Smp Info : CCVIS-1531401  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\a-bFASTPAHi-m.m  
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 3 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136		2.563	2.563	(1.000)	1809348	40.0000		
* 6 Acenaphthene-d10	164		3.594	3.594	(1.000)	901124	40.0000		
* 10 Phenanthrene-d10	188		4.544	4.544	(1.000)	1564940	40.0000		
\$ 14 o-Terphenyl	230		4.844	4.844	(1.066)	462823	20.0000	18.0812	
* 18 Chrysene-d12	240		6.574	6.574	(1.000)	1466966	40.0000		
* 23 Perylene-d12	264		7.659	7.659	(1.000)	1426011	40.0000		
2 Naphthalene	128		2.573	2.573	(1.004)	855861	20.0000	18.9224	
3 2-Methylnaphthalene	141		2.979	2.979	(1.163)	478646	20.0000	18.4581	
4 1-Methylnaphthalene	142		3.033	3.033	(1.183)	536321	20.0000	18.6677	
5 Acenaphthylene	152		3.503	3.503	(0.975)	962160	20.0000	18.2697	
7 Acenaphthene	154		3.610	3.610	(1.004)	476399	20.0000	17.2493	
9 Fluorene	166		3.925	3.925	(1.092)	603052	20.0000	18.1485	
11 Phenanthrene	178		4.560	4.560	(1.004)	793286	20.0000	17.4990	
12 Anthracene	178		4.593	4.593	(1.011)	855338	20.0000	18.1458	
13 Carbazole	167		4.726	4.726	(1.040)	800935	20.0000	17.6136	
15 Fluoranthene	202		5.426	5.426	(1.194)	980035	20.0000	18.7169	
16 Pyrene	202		5.592	5.592	(0.851)	1062006	20.0000	18.9759	
17 Benzo(a)anthracene	228		6.558	6.558	(0.998)	883761	20.0000	18.4475	
19 Chrysene	228		6.590	6.590	(1.002)	866381	20.0000	17.8258	
20 Benzo(b)fluoranthene	252		7.381	7.381	(0.964)	936701	20.0000	21.6363	
21 Benzo(k)fluoranthene	252		7.402	7.402	(0.967)	867670	20.0000	17.4315	
22 Benzo(a)pyrene	252		7.605	7.605	(0.993)	850039	20.0000	19.7369	
24 Indeno(1,2,3-cd)pyrene	276		8.423	8.423	(1.100)	869101	20.0000	21.3719	
25 Dibenzo(a,h)anthracene	278		8.450	8.450	(1.103)	738140	20.0000	19.5082	
26 Benzo(g,h,i)perylene	276		8.642	8.642	(1.128)	805187	20.0000	17.6915	

Data File: 1AE01006.D

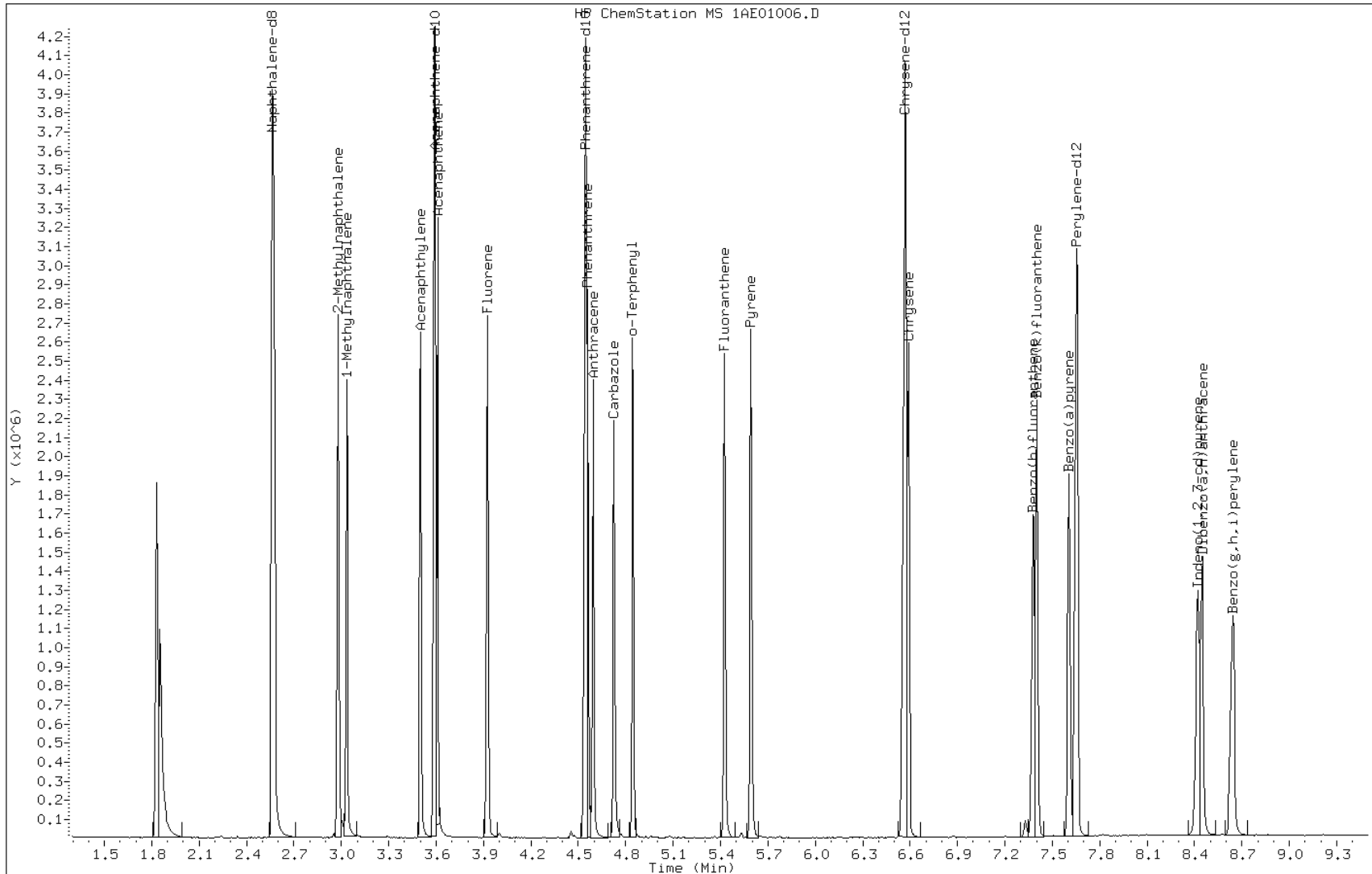
Date: 01-MAY-2013 14:15

Client ID:

Instrument: BSMA5973.i

Sample Info: CCVIS-1531401

Operator: SCC



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Lab Sample ID: CCVIS 660-137070/7 Calibration Date: 05/02/2013 16:18  
 Instrument ID: BSMA5973 Calib Start Date: 04/26/2013 10:03  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/26/2013 11:34  
 Lab File ID: 1AE02006.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.000	0.9604	0.0000	19200	20000	-4.0	20.0
2-Methylnaphthalene	Ave	0.5733	0.5184	0.0000	18100	20000	-9.6	20.0
1-Methylnaphthalene	Ave	0.6351	0.5548	0.0000	17500	20000	-12.7	20.0
Acenaphthylene	Ave	2.338	2.024	0.0000	17300	20000	-13.4	20.0
Acenaphthene	Ave	1.226	1.057	0.0000	17200	20000	-13.8	20.0
Fluorene	Ave	1.475	1.295	0.0000	17600	20000	-12.2	20.0
Phenanthrene	Ave	1.159	0.9899	0.0000	17100	20000	-14.6	20.0
Anthracene	Ave	1.205	1.083	0.0000	18000	20000	-10.1	20.0
Carbazole	Ave	1.162	1.001	0.0000	17200	20000	-13.9	20.0
Fluoranthene	Ave	1.338	1.227	0.0000	18300	20000	-8.3	20.0
Pyrene	Ave	1.526	1.355	0.0000	17800	20000	-11.2	20.0
Benzo[a]anthracene	Ave	1.306	1.148	0.0000	17600	20000	-12.1	20.0
Chrysene	Ave	1.325	1.191	0.0000	18000	20000	-10.1	20.0
Benzo[b]fluoranthene	Ave	1.214	1.194	0.0000	19700	20000	-1.7	20.0
Benzo[k]fluoranthene	Ave	1.396	1.328	0.0000	19000	20000	-4.9	20.0
Benzo[a]pyrene	Ave	1.208	1.153	0.0000	19100	20000	-4.5	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.141	1.083	0.0000	19000	20000	-5.0	20.0
Dibenz(a,h)anthracene	Ave	1.061	0.9689	0.0000	18300	20000	-8.7	20.0
Benzo[g,h,i]perylene	Ave	1.277	1.025	0.0000	16100	20000	-19.7	20.0
o-Terphenyl	Ave	0.6543	0.5890	0.0000	18000	20000	-10.0	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02006.D  
 Lab Smp Id: CCVIS-1531401  
 Inj Date : 02-MAY-2013 16:18  
 Operator : SCC  
 Smp Info : CCVIS-1531401  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\a-bFASTPAHi-m.m  
 Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 3 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)
* 1 Naphthalene-d8	136	2.550	2.550	(1.000)	1450767	40.0000	
* 6 Acenaphthene-d10	164	3.581	3.581	(1.000)	762472	40.0000	
* 10 Phenanthrene-d10	188	4.532	4.532	(1.000)	1434463	40.0000	
\$ 14 o-Terphenyl	230	4.831	4.831	(1.066)	422477	20.0000	18.0063
* 18 Chrysene-d12	240	6.551	6.551	(1.000)	1367246	40.0000	
* 23 Perylene-d12	264	7.641	7.641	(1.000)	1233398	40.0000	
2 Naphthalene	128	2.560	2.560	(1.004)	696622	20.0000	19.2085
3 2-Methylnaphthalene	141	2.972	2.972	(1.165)	376009	20.0000	18.0841
4 1-Methylnaphthalene	142	3.025	3.025	(1.186)	402437	20.0000	17.4698
5 Acenaphthylene	152	3.490	3.490	(0.975)	771475	20.0000	17.3127
7 Acenaphthene	154	3.597	3.597	(1.004)	403016	20.0000	17.2458
9 Fluorene	166	3.912	3.912	(1.092)	493537	20.0000	17.5536
11 Phenanthrene	178	4.548	4.548	(1.004)	709960	20.0000	17.0854
12 Anthracene	178	4.580	4.580	(1.011)	776492	20.0000	17.9715
13 Carbazole	167	4.713	4.713	(1.040)	717823	20.0000	17.2217
15 Fluoranthene	202	5.413	5.413	(1.194)	880112	20.0000	18.3374
16 Pyrene	202	5.579	5.579	(0.852)	926190	20.0000	17.7562
17 Benzo(a)anthracene	228	6.540	6.540	(0.998)	785024	20.0000	17.5816
19 Chrysene	228	6.572	6.572	(1.003)	814240	20.0000	17.9749
20 Benzo(b)fluoranthene	252	7.363	7.363	(0.964)	736527	20.0000	19.6694
21 Benzo(k)fluoranthene	252	7.384	7.384	(0.966)	819005	20.0000	19.0233
22 Benzo(a)pyrene	252	7.593	7.593	(0.994)	711256	20.0000	19.0935
24 Indeno(1,2,3-cd)pyrene	276	8.405	8.405	(1.100)	667992	20.0000	18.9917
25 Dibenzo(a,h)anthracene	278	8.431	8.431	(1.103)	597492	20.0000	18.2571
26 Benzo(g,h,i)perylene	276	8.624	8.624	(1.129)	632044	20.0000	16.0559(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AE02006.D

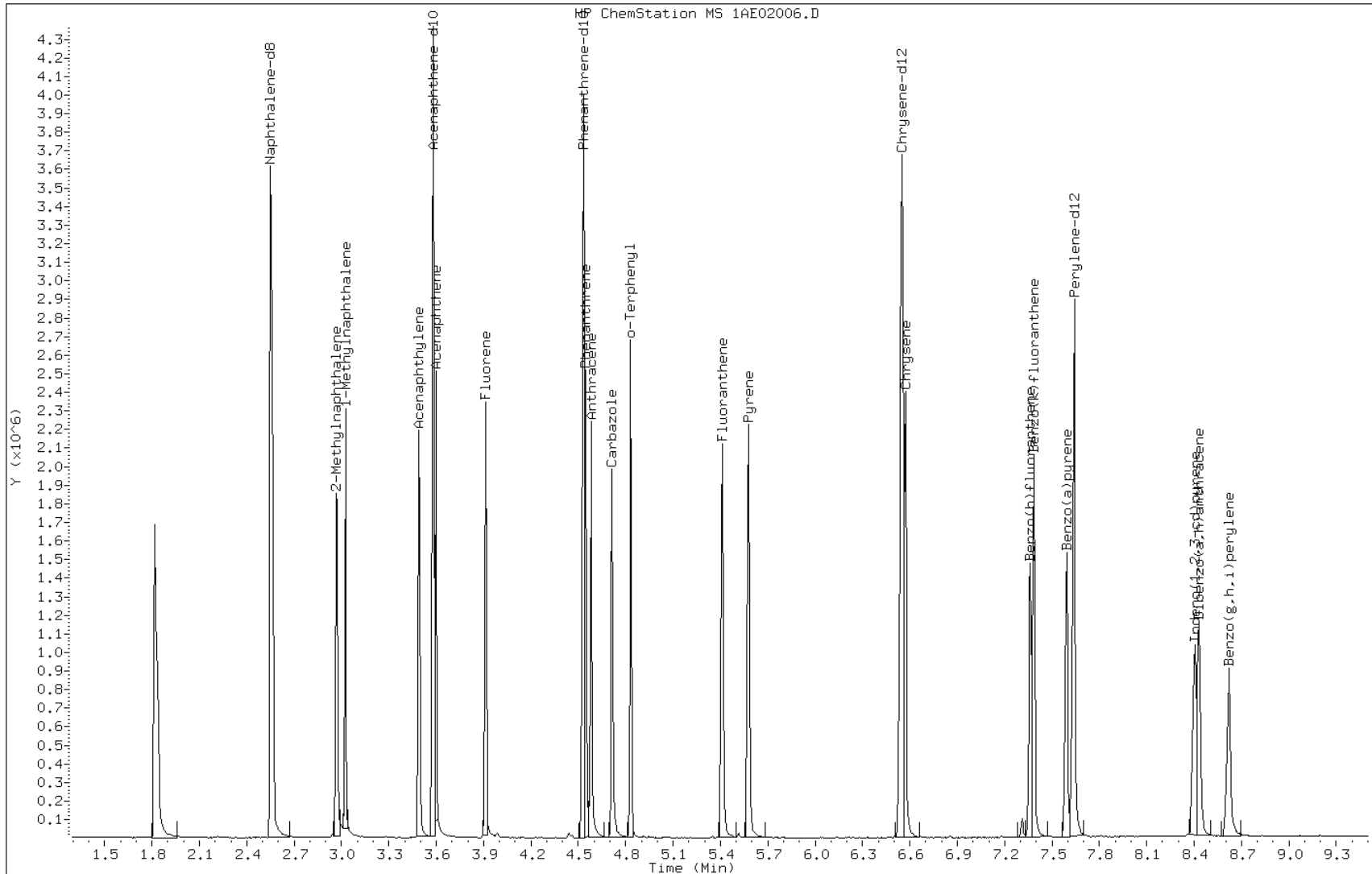
Date: 02-MAY-2013 16:18

Client ID:

Instrument: BSMA5973.i

Sample Info: CCVIS-1531401

Operator: SCC



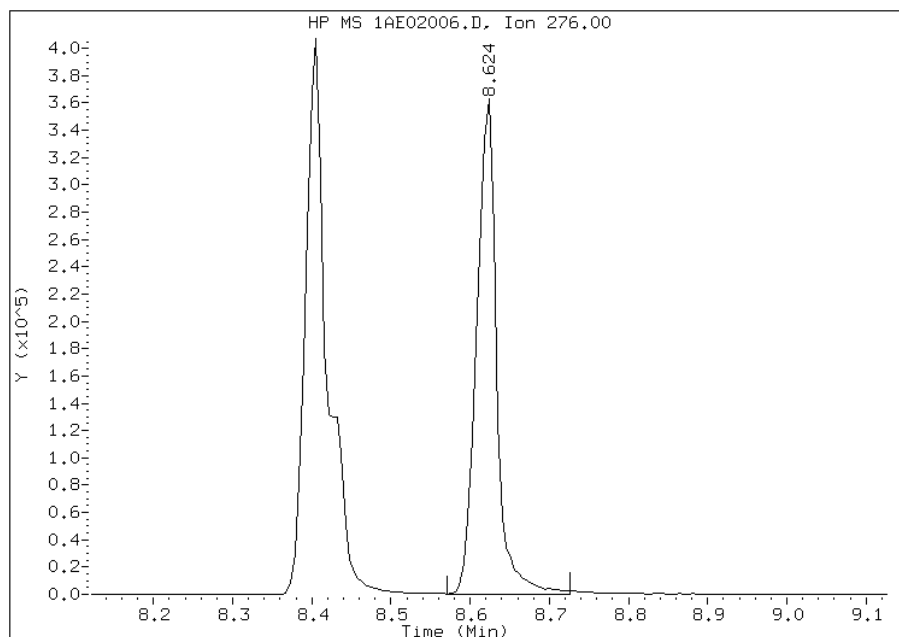


Manual Integration Report

Data File: 1AE02006.D  
Inj. Date and Time: 02-MAY-2013 16:18  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 05/03/2013

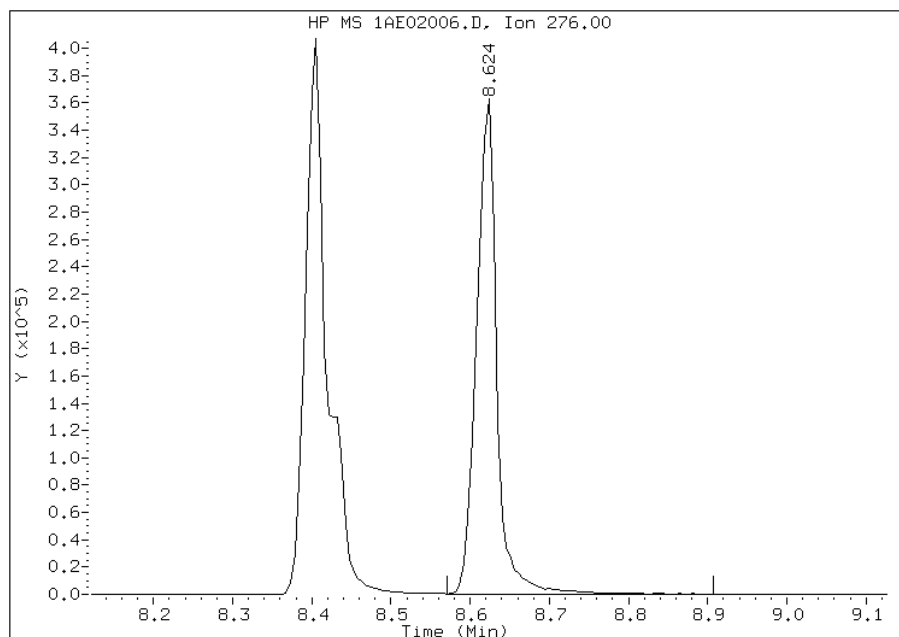
Processing Integration Results

RT: 8.62  
Response: 624361  
Amount: 16  
Conc: 16



Manual Integration Results

RT: 8.62  
Response: 632044  
Amount: 16  
Conc: 16



Manually Integrated By: cantins  
Modification Date: 02-May-2013 16:37  
Manual Integration Reason: Baseline Event

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Lab Sample ID: ICV 660-137156/10 Calibration Date: 05/06/2013 12:11  
 Instrument ID: BSMA5973 Calib Start Date: 05/06/2013 10:40  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 05/06/2013 11:56  
 Lab File ID: 1AE06010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9420	0.9132	0.0000	19400	20000	-3.0	35.0
2-Methylnaphthalene	Ave	0.4787	0.5082	0.0000	21200	20000	6.2	35.0
1-Methylnaphthalene	Ave	0.5738	0.5870	0.0000	20500	20000	2.3	35.0
Acenaphthylene	Ave	1.880	1.818	0.0000	19300	20000	-3.3	35.0
Acenaphthene	Ave	1.079	0.9701	0.0000	18000	20000	-10.1	35.0
Fluorene	Ave	1.230	1.234	0.0000	20100	20000	0.3	35.0
Phenanthrene	Ave	0.9910	0.9305	0.0000	18800	20000	-6.1	35.0
Anthracene	Ave	1.056	1.004	0.0000	19000	20000	-4.9	35.0
Carbazole	Ave	0.9491	0.6514	0.0000	13700	20000	-31.4	35.0
Fluoranthene	Ave	1.140	1.161	0.0000	20400	20000	1.8	35.0
Pyrene	Ave	1.286	1.285	0.0000	20000	20000	-0.0	35.0
Benzo[a]anthracene	Ave	1.124	1.106	0.0000	19700	20000	-1.6	35.0
Chrysene	Ave	1.265	1.095	0.0000	17300	20000	-13.4	35.0
Benzo[b]fluoranthene	Ave	1.057	1.019	0.0000	19300	20000	-3.6	35.0
Benzo[k]fluoranthene	Ave	1.312	1.220	0.0000	18600	20000	-7.0	35.0
Benzo[a]pyrene	Ave	1.086	0.9512	0.0000	17500	20000	-12.4	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.9096	0.9397	0.0000	20700	20000	3.3	35.0
Dibenz(a,h)anthracene	Ave	0.9324	1.016	0.0000	21800	20000	8.9	35.0
Benzo[g,h,i]perylene	Ave	0.9782	0.9691	0.0000	19800	20000	-0.9	35.0
o-Terphenyl	Ave	0.5725	0.5431	0.0000	19000	20000	-5.1	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06010.D  
 Lab Smp Id: ICV-1448440  
 Inj Date : 06-MAY-2013 12:11  
 Operator : SCC  
 Smp Info : ICV-1448440  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m  
 Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD  
 Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D  
 Als bottle: 10 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula: Amt \* DF \* 1/Vi \* Vt/Vo \* A \* B \* C \* D \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL ( ug/l)
* 1 Naphthalene-d8	136		2.545	2.544	(1.000)	1358957	40.0000		
* 6 Acenaphthene-d10	164		3.576	3.575	(1.000)	723354	40.0000		
* 10 Phenanthrene-d10	188		4.522	4.521	(1.000)	1301827	40.0000		
\$ 14 o-Terphenyl	230		4.821	4.820	(1.066)	353505	18.9730	18.9730	
* 18 Chrysene-d12	240		6.536	6.535	(1.000)	1182962	40.0000		
* 23 Perylene-d12	264		7.620	7.630	(1.000)	1130799	40.0000		
2 Naphthalene	128		2.556	2.555	(1.004)	620525	19.3900	19.3900	
3 2-Methylnaphthalene	141		2.962	2.961	(1.164)	345301	21.2310	21.2309	
4 1-Methylnaphthalene	142		3.015	3.014	(1.185)	398822	20.4584	20.4584	
5 Acenaphthylene	152		3.485	3.484	(0.975)	657440	19.3423	19.3423	
7 Acenaphthene	154		3.592	3.591	(1.004)	350866	17.9750	17.9750	
9 Fluorene	166		3.902	3.901	(1.091)	446292	20.0628	20.0627	
11 Phenanthrene	178		4.533	4.537	(1.002)	605646	18.7787	18.7787	
12 Anthracene	178		4.570	4.569	(1.011)	653401	19.0188	19.0188	
13 Carbazole	167		4.698	4.702	(1.039)	424026	13.7271	13.7271	
15 Fluoranthene	202		5.398	5.397	(1.194)	755565	20.3641	20.3641	
16 Pyrene	202		5.564	5.562	(0.851)	760119	19.9900	19.9900	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL ( ug/l)
-----	----		----	-----	-----	-----	-----	-----
17 Benzo(a)anthracene	228		6.525	6.524	(0.998)	654156	19.6760	19.6760
19 Chrysene	228		6.557	6.551	(1.003)	647722	17.3155	17.3155
20 Benzo(b)fluoranthene	252		7.343	7.347	(0.964)	576037	19.2726	19.2725
21 Benzo(k)fluoranthene	252		7.364	7.368	(0.966)	689550	18.5964	18.5963
22 Benzo(a)pyrene	252		7.572	7.576	(0.994)	537816	17.5209	17.5208
24 Indeno(1,2,3-cd)pyrene	276		8.374	8.388	(1.099)	531307	20.6612	20.6611
25 Dibenzo(a,h)anthracene	278		8.400	8.414	(1.102)	574250	21.7852	21.7851
26 Benzo(g,h,i)perylene	276		8.593	8.602	(1.128)	547940	19.8150	19.8150

Data File: 1AE06010.D

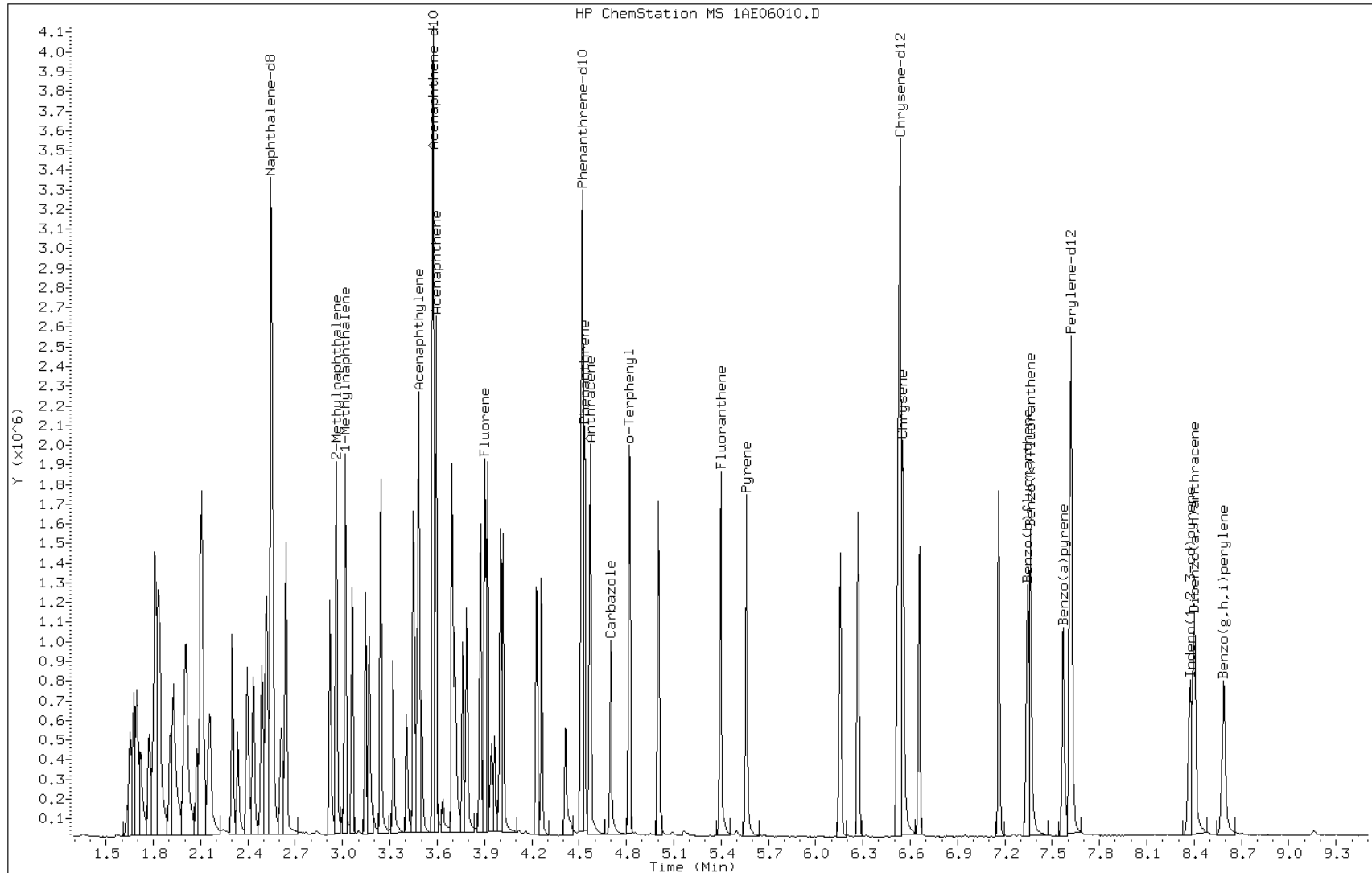
Date: 06-MAY-2013 12:11

Client ID:

Instrument: BSMA5973.i

Sample Info: ICV-1448440

Operator: SCC



TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 26-APR-2013 09:50  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : DFTPP-1525851  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-dftpp198.m  
 Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD  
 Cal Date : Cal File:  
 Als bottle: 2 QC Sample: DFTPP  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: 4.14 Sample Matrix: None  
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	( ug/L)	( ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
4.935	4.963	-0.028	198	121536			50.00-	0.00	100.00
4.935	4.963	-0.028	51	38720			10.00-	80.00	31.86
4.935	4.963	-0.028	68	0	0.0	0.0	0.00-	2.00	0.00
4.935	4.963	-0.028	69	36384			0.00-	0.00	29.94
4.935	4.963	-0.028	70	323			0.00-	2.00	0.89
4.935	4.963	-0.028	127	46488			10.00-	80.00	38.25
4.935	4.963	-0.028	197	0	0.0	0.0	0.00-	2.00	0.00
4.935	4.963	-0.028	442	102376			50.00-	0.00	84.24
4.935	4.963	-0.028	199	6667			5.00-	9.00	5.49
4.935	4.963	-0.028	275	30992			10.00-	60.00	25.50
4.935	4.963	-0.028	365	3993			1.00-	0.00	3.29
4.935	4.963	-0.028	441	14043			0.01-	99.99	74.57
4.935	4.963	-0.028	443	18832			15.00-	24.00	18.39

Data File: 1AD26002.D

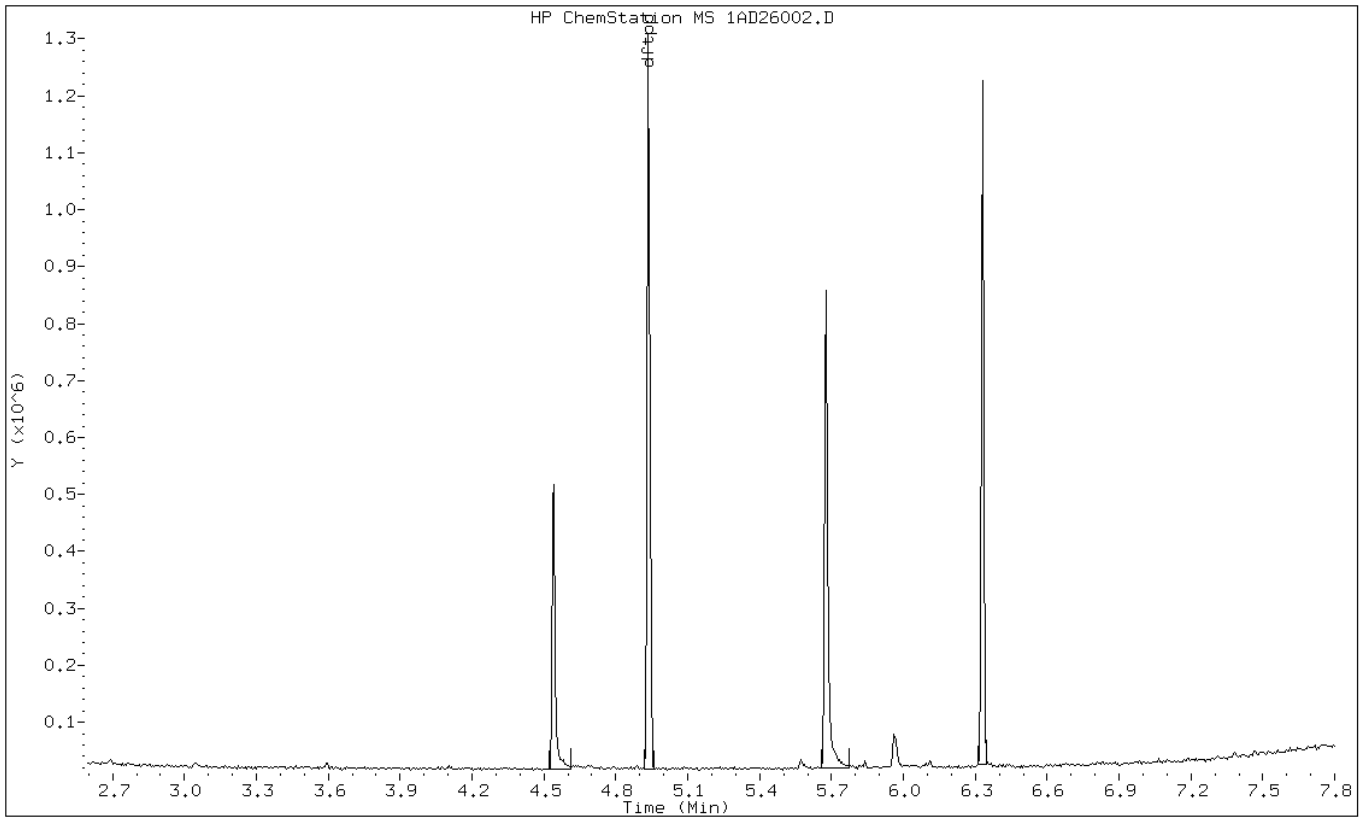
Date: 26-APR-2013 09:50

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC



Data File: 1AD26002.D

Date: 26-APR-2013 09:50

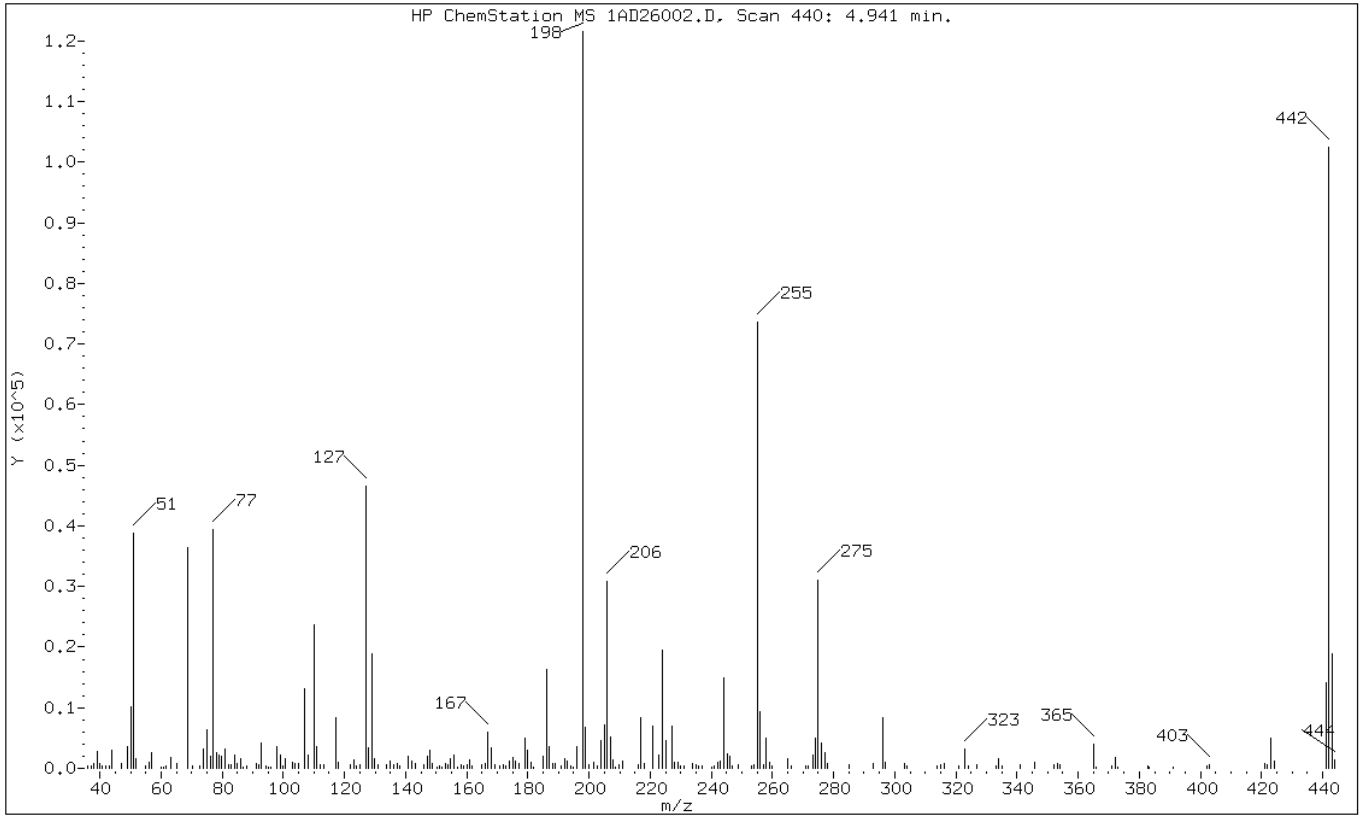
Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	31.86
68	Less than 2.00% of mass 69	0.00 ( 0.00)
69	Mass 69 relative abundance	29.94
70	Less than 2.00% of mass 69	0.27 ( 0.89)
127	10.00 - 80.00% of mass 198	38.25
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	84.24
199	5.00 - 9.00% of mass 198	5.49
275	10.00 - 60.00% of mass 198	25.50
365	Greater than 1.00% of mass 198	3.29
441	Present, but less than mass 443	11.55
443	15.00 - 24.00% of mass 442	15.49 ( 18.39)



Data File: 1AD26002.D

Date: 26-APR-2013 09:50

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613\_IC.b\1AD26002.D

Spectrum: HP ChemStation MS 1AD26002.D, Scan 440: 4.941 min.

Location of Maximum: 197.90

Number of points: 218

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	318	109.90	23624	181.90	258	257.90	4917
37.10	304	110.90	3528	185.00	1943	258.90	978
38.00	772	112.00	696	186.00	16384	259.90	303
39.00	2851	113.10	557	187.00	3659	265.00	1578
40.10	716	117.00	8329	188.00	719	266.20	302
40.90	450	117.90	908	188.90	826	270.90	415
42.00	367	122.00	606	190.80	404	271.70	437
43.00	323	123.00	1311	192.00	1546	273.10	2160
44.00	3058	124.00	371	192.90	1214	274.00	5041
46.90	754	125.00	512	194.00	396	275.00	30992
49.00	3565	127.00	46488	194.80	255	275.90	4232
50.00	10138	128.00	3368	195.90	3544	277.00	2575
51.00	38720	128.90	18888	197.90	121536	278.00	834
51.90	1557	129.80	1654	198.90	6667	285.00	690
55.00	474	131.00	544	199.90	619	293.00	822
56.00	1032	133.90	503	201.70	1011	296.00	8395
57.00	2554	135.00	1277	202.90	396	297.00	904
60.00	257	136.00	571	204.00	4575	303.20	722
60.90	289	137.10	702	205.00	7152	303.90	319
61.80	317	138.00	427	206.00	30816	314.00	477
63.10	1724	141.00	2035	207.00	5196	314.90	676
65.00	759	142.00	1118	207.90	1339	316.10	769
68.90	36384	143.00	713	208.70	266	320.80	382
70.10	323	146.10	541	209.90	683	323.00	3132
72.80	315	147.00	1966	211.10	1168	324.00	468
74.00	3176	148.00	2955	216.00	640	327.00	657
75.00	6302	148.90	888	216.90	8402	333.00	481
76.10	1935	150.10	289	217.90	765	334.10	1644
77.00	39448	151.00	322	220.90	7020	335.00	459
78.00	2640	151.90	273	223.00	2251	340.90	509
79.00	2237	152.90	869	224.00	19528	345.90	899
79.90	2049	153.90	672	225.00	4617	351.90	634
80.90	3195	154.80	1546	227.00	6882	352.20	548
82.00	676	156.00	2256	227.90	931	353.10	702
82.90	597	156.90	256	229.00	1037	353.90	642
83.90	2102	158.10	527	229.90	339	365.00	3993
84.90	795	159.00	341	231.10	439	365.90	292
86.10	1590	160.00	680	234.00	698	371.00	314
86.80	277	161.00	1485	235.00	536	372.10	1782
87.90	476	161.90	375	236.00	404	372.80	257

91.10	819	164.80	641	237.10	489	382.80	327
92.10	653	166.00	856	240.00	276	383.30	252
92.90	4252	167.00	5928	241.00	479	391.00	277
94.20	435	168.00	3455	242.00	967	402.10	404
95.00	281	169.10	686	243.00	1175	403.00	649
+-----+							
95.90	273	170.90	352	244.00	14953	421.10	713
98.00	3544	172.00	525	245.10	2429	421.80	629
99.00	2270	172.80	444	246.00	1998	422.90	5030
99.80	420	173.90	1209	246.80	476	424.00	1147
100.80	1642	175.10	1874	248.90	576	441.00	14043
+-----+							
103.00	1034	176.00	1175	253.00	400	442.00	102376
103.90	828	177.00	876	253.90	504	443.00	18832
105.00	864	179.00	4909	255.00	73608	443.90	1450
107.00	13154	179.90	2911	256.00	9434		
108.00	2102	180.90	1012	257.00	624		
+-----+							

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A043013.b\1AD30002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 30-APR-2013 11:23  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : DFTPP-1525851  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A043013.b\a-dftpp198.m  
 Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD  
 Cal Date : Cal File:  
 Als bottle: 2 QC Sample: DFTPP  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: 4.14 Sample Matrix: None  
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	( ug/L)	( ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
4.928	4.963	-0.035	198	109840			50.00-	0.00	100.00
4.928	4.963	-0.035	51	43632			10.00-	80.00	39.72
4.928	4.963	-0.035	68	0	0.0	0.0	0.00-	2.00	0.00
4.928	4.963	-0.035	69	40480			0.00-	0.00	36.85
4.928	4.963	-0.035	70	528			0.00-	2.00	1.30
4.928	4.963	-0.035	127	51848			10.00-	80.00	47.20
4.928	4.963	-0.035	197	0	0.0	0.0	0.00-	2.00	0.00
4.928	4.963	-0.035	442	65432			50.00-	0.00	59.57
4.928	4.963	-0.035	199	7942			5.00-	9.00	7.23
4.928	4.963	-0.035	275	23880			10.00-	60.00	21.74
4.928	4.963	-0.035	365	2908			1.00-	0.00	2.65
4.928	4.963	-0.035	441	8531			0.01-	99.99	67.84
4.928	4.963	-0.035	443	12576			15.00-	24.00	19.22

Data File: 1AD30002.D

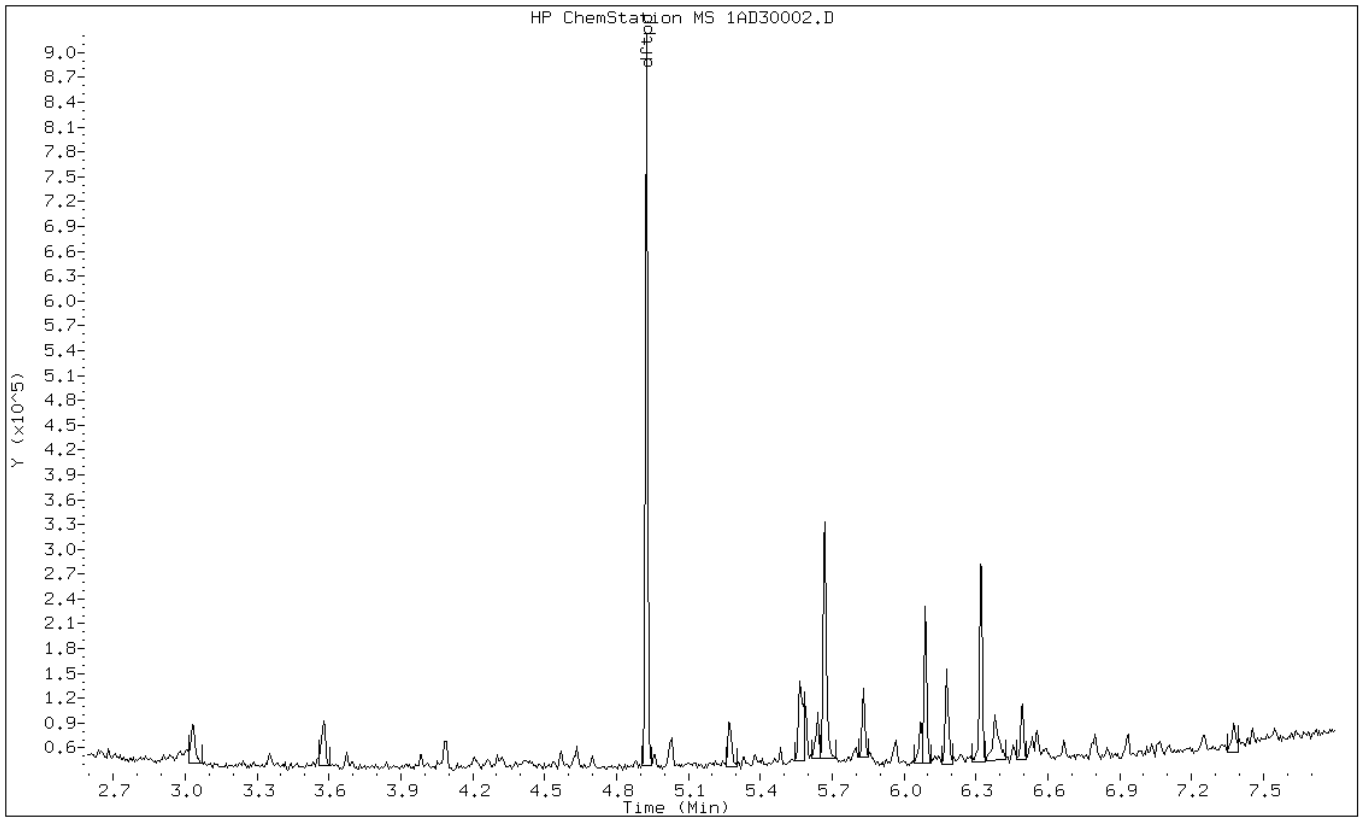
Date: 30-APR-2013 11:23

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC



Data File: 1AD30002.D

Date: 30-APR-2013 11:23

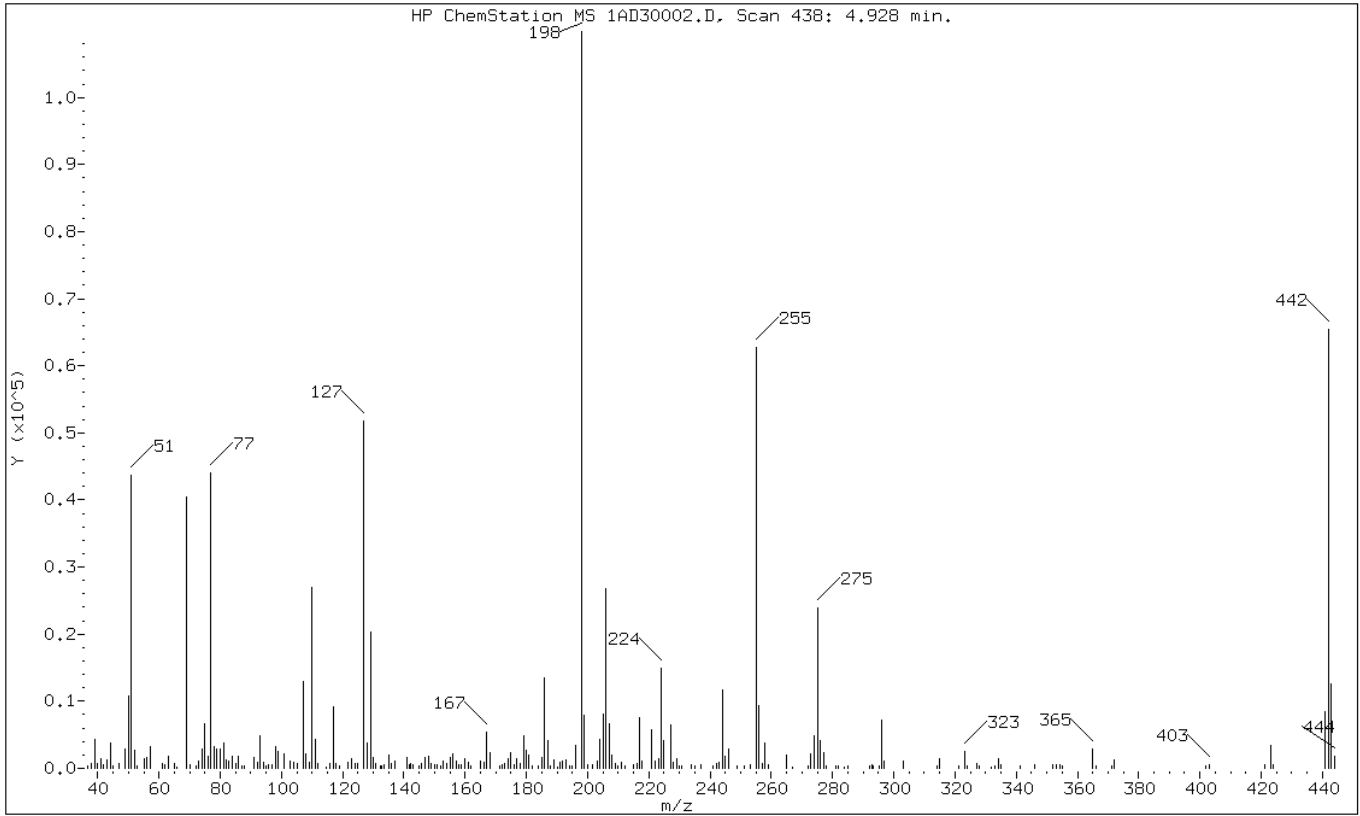
Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	39.72
68	Less than 2.00% of mass 69	0.00 ( 0.00)
69	Mass 69 relative abundance	36.85
70	Less than 2.00% of mass 69	0.48 ( 1.30)
127	10.00 - 80.00% of mass 198	47.20
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	59.57
199	5.00 - 9.00% of mass 198	7.23
275	10.00 - 60.00% of mass 198	21.74
365	Greater than 1.00% of mass 198	2.65
441	Present, but less than mass 443	7.77
443	15.00 - 24.00% of mass 442	11.45 ( 19.22)

Data File: 1AD30002.D

Date: 30-APR-2013 11:23

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A043013.b\1AD30002.D

Spectrum: HP ChemStation MS 1AD30002.D, Scan 438: 4.928 min.

Location of Maximum: 197.90

Number of points: 227

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.70	272	109.10	924	178.00	793	253.10	569
38.00	734	109.90	26888	179.00	4766	255.00	62784
39.00	4403	110.90	4382	180.00	2674	256.00	9333
39.90	780	111.90	679	180.90	1926	257.00	774
41.00	1474	114.80	255	181.90	428	258.00	3714
42.00	487	115.90	778	184.00	307	259.00	506
43.00	1260	117.00	9253	184.90	1688	265.00	1942
44.00	3861	117.80	655	186.00	13465	267.00	265
44.90	315	118.90	368	187.00	4057	272.00	300
47.00	758	121.80	900	188.00	419	273.00	2101
48.90	2856	123.00	1447	188.90	1172	274.00	4848
50.00	10778	124.10	774	190.00	264	275.00	23880
51.00	43632	125.00	676	191.00	872	276.00	4080
52.00	2700	127.00	51848	191.90	1156	277.00	2249
52.90	425	127.90	3694	193.00	1346	277.90	424
55.00	1359	129.00	20248	194.30	296	281.10	393
56.00	1538	130.00	1693	195.00	412	282.00	277
57.00	3175	130.80	710	196.00	3397	283.80	263
61.00	664	132.20	274	197.90	109840	284.90	367
62.00	613	132.80	362	198.90	7942	292.10	323
63.00	1798	133.70	565	200.10	609	292.80	508
65.00	765	135.00	1918	201.50	595	293.10	379
65.90	252	135.80	705	203.00	1164	295.10	275
68.90	40480	137.10	1056	204.00	4277	296.00	7206
70.00	528	141.00	1665	205.00	8059	296.80	991
72.00	369	141.90	623	206.00	26808	303.10	1051
73.00	1091	142.30	737	207.00	6626	314.00	322
74.00	2860	143.10	628	207.90	1936	315.00	1382
75.00	6616	145.10	403	208.90	640	321.30	337
76.00	1809	145.80	684	209.90	418	323.00	2466
77.00	43976	147.00	1606	211.10	941	324.00	432
78.00	3159	148.00	1724	212.20	389	327.00	682
78.90	2955	148.90	717	214.90	466	327.80	355
79.90	2821	150.10	509	216.00	741	331.90	269
81.00	3774	151.00	583	216.90	7597	333.20	323
81.90	1212	151.90	449	217.90	1006	334.10	1354
82.90	1063	152.90	1093	221.00	5663	335.00	505
84.00	1804	154.00	683	222.00	1016	341.10	281
85.00	734	155.00	1588	223.10	1517	346.10	459
85.90	1813	156.10	2133	224.00	14988	352.00	505

87.00	368	157.00	1019	225.00	4085	353.00	525
87.80	313	158.10	504	227.00	6427	354.10	541
91.10	1571	158.80	494	228.00	839	355.10	393
92.10	968	160.00	1397	229.00	1375	365.00	2908
92.90	4825	161.00	902	230.00	285	366.20	301
94.10	827	161.90	380	230.80	409	371.10	344
94.90	380	165.00	1014	233.90	506	372.00	1198
95.90	557	166.00	868	235.00	384	401.90	341
97.00	509	167.00	5306	237.00	516	402.90	589
97.90	3278	168.00	2396	240.90	288	421.10	519
98.90	2599	171.10	361	242.00	705	423.00	3420
101.00	2172	172.00	503	243.00	976	424.10	628
102.80	1028	173.00	684	244.10	11673	441.00	8531
103.90	977	173.90	1351	245.00	1855	442.00	65432
105.00	790	175.00	2407	246.00	2879	443.00	12576
107.00	13026	175.90	591	249.00	418	444.00	1730
108.00	2097	176.90	1524	251.00	323		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01005.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 01-MAY-2013 14:01  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : DFTPP-1525851  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\a-dftpp198.m  
 Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD  
 Cal Date : Cal File:  
 Als bottle: 2 QC Sample: DFTPP  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: 4.14 Sample Matrix: None  
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE ( ug/L)	( ug/L)	TARGET RANGE	RATIO		
====	=====	=====	====	=====	=====	=====	=====		
1 dftpp					CAS #: 5074-71-5				
4.922	4.963	-0.041	198	76476		50.00- 0.00	100.00		
4.922	4.963	-0.041	51	24373		10.00- 80.00	31.87		
4.922	4.963	-0.041	68	404		0.00- 2.00	1.70		
4.922	4.963	-0.041	69	23698		0.00- 0.00	30.99		
4.922	4.963	-0.041	70	207		0.00- 2.00	0.87		
4.922	4.963	-0.041	127	31075		10.00- 80.00	40.63		
4.922	4.963	-0.041	197	0	0.0	0.00- 2.00	0.00		
4.922	4.963	-0.041	442	70952		50.00- 0.00	92.78		
4.922	4.963	-0.041	199	5134		5.00- 9.00	6.71		
4.922	4.963	-0.041	275	19733		10.00- 60.00	25.80		
4.922	4.963	-0.041	365	2018		1.00- 0.00	2.64		
4.922	4.963	-0.041	441	9091		0.01- 99.99	66.32		
4.922	4.963	-0.041	443	13707		15.00- 24.00	19.32		



Data File: 1AE01005.D

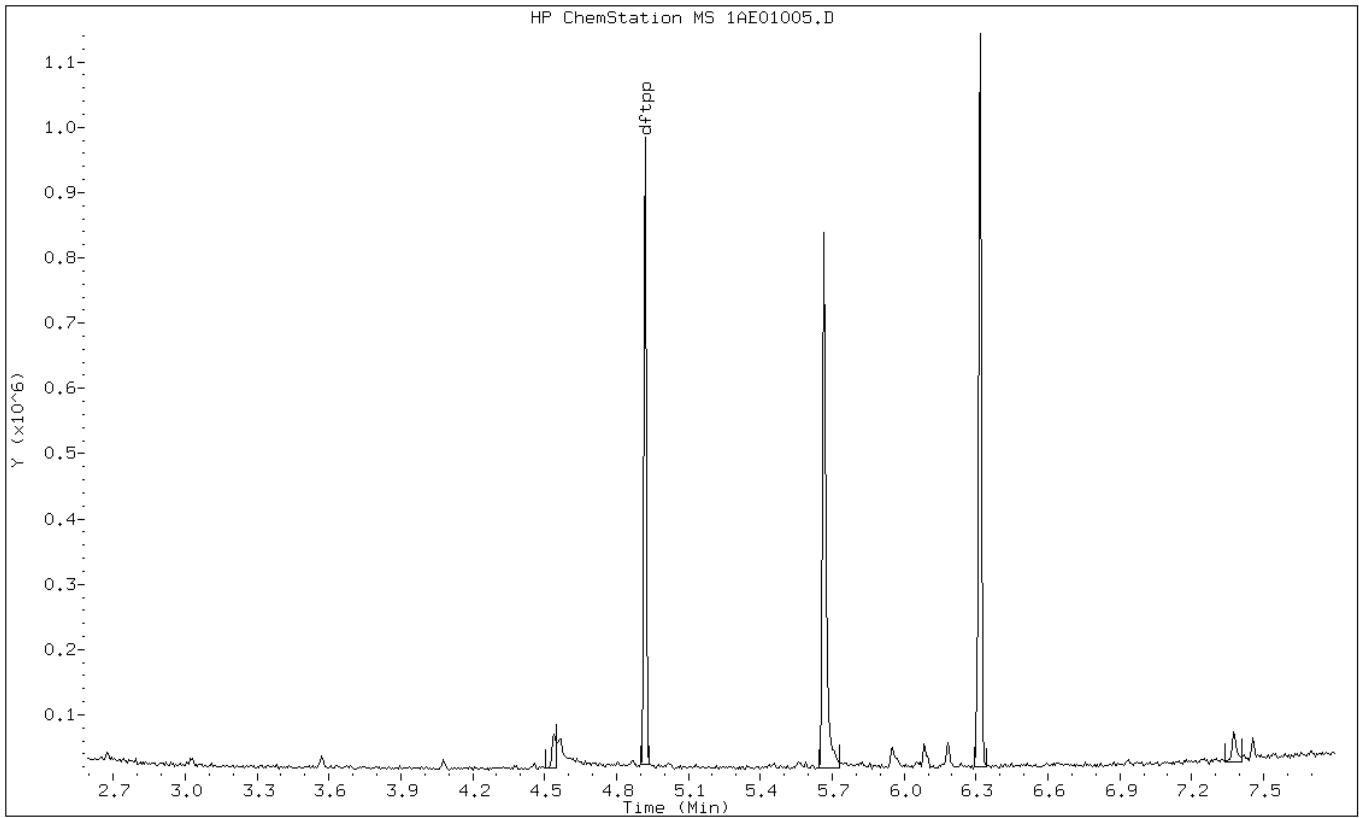
Date: 01-MAY-2013 14:01

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC



Data File: 1AE01005.D

Date: 01-MAY-2013 14:01

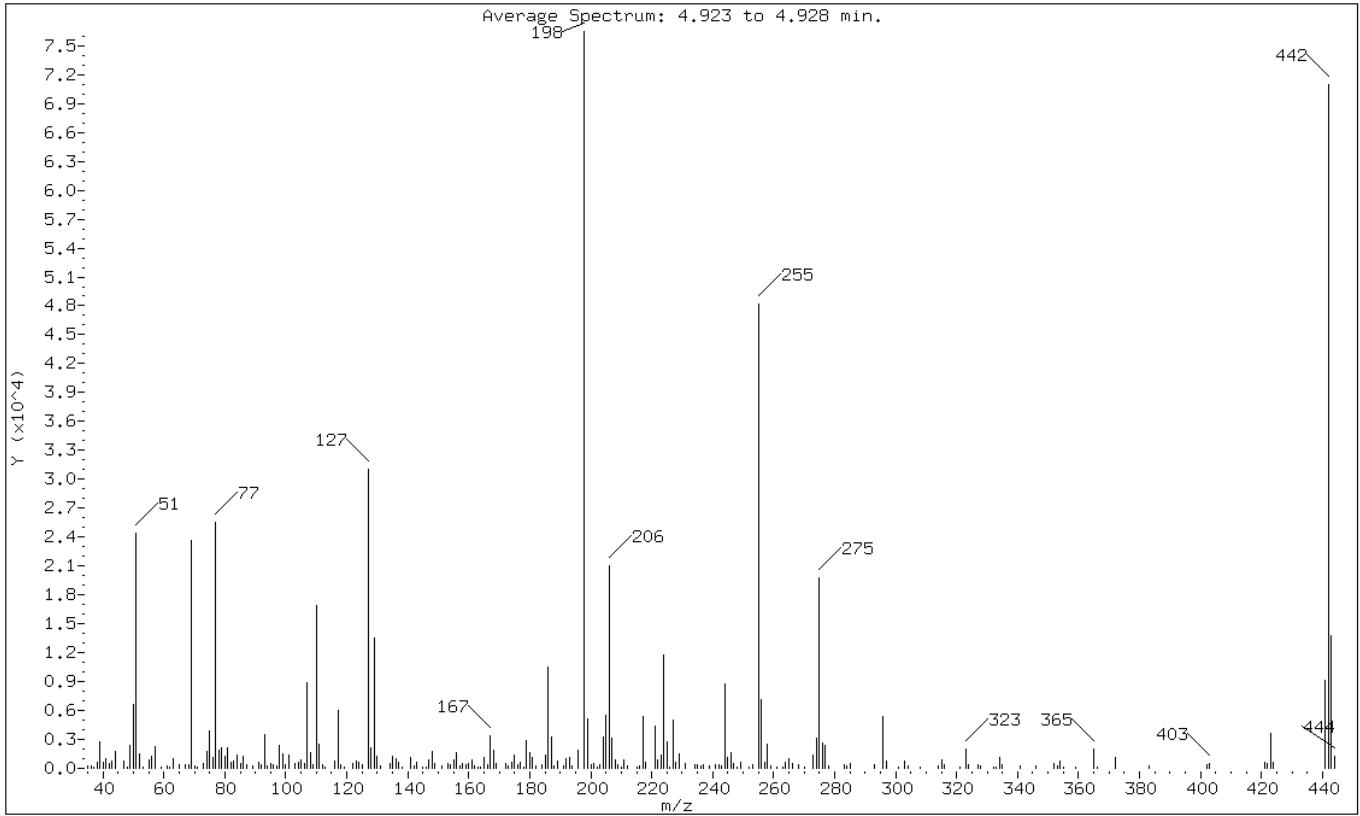
Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	31.87
68	Less than 2.00% of mass 69	0.53 ( 1.70)
69	Mass 69 relative abundance	30.99
70	Less than 2.00% of mass 69	0.27 ( 0.87)
127	10.00 - 80.00% of mass 198	40.63
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	92.78
199	5.00 - 9.00% of mass 198	6.71
275	10.00 - 60.00% of mass 198	25.80
365	Greater than 1.00% of mass 198	2.64
441	Present, but less than mass 443	11.89
443	15.00 - 24.00% of mass 442	17.92 ( 19.32)

Data File: 1AE01005.D

Date: 01-MAY-2013 14:01

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC

Data File: \\tam-chemsrv\chem\SM\BSMA5973.i\1A050113.b\1AE01005.D

Spectrum: Average Spectrum: 4.923 to 4.928 min.

Location of Maximum: 198.00

Number of points: 240

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	215	107.00	8830	182.00	265	259.00	238
36.00	194	108.00	1654	184.00	326	261.00	130
37.00	155	109.00	364	185.00	1326	263.00	183
38.00	634	110.00	16840	186.00	10491	264.00	604
39.00	2719	111.00	2445	187.00	3196	265.00	996
40.00	653	112.00	337	188.00	310	266.00	561
41.00	978	113.00	139	189.00	690	268.00	420
42.00	457	116.00	725	191.00	258	270.00	130
43.00	762	117.00	6007	192.00	1036	273.00	1345
44.00	1714	118.00	313	193.00	1099	274.00	3190
47.00	693	119.00	131	194.00	262	275.00	19728
48.00	130	122.00	505	196.00	1909	276.00	2667
49.00	2351	123.00	771	198.00	76472	277.00	2344
50.00	6614	124.00	594	199.00	5134	278.00	220
51.00	24368	125.00	392	200.00	438	283.00	399
52.00	1510	127.00	31072	201.00	501	284.00	292
53.00	161	128.00	2075	202.00	167	285.00	468
55.00	834	129.00	13455	203.00	374	293.00	314
56.00	1313	130.00	1298	204.00	3210	296.00	5355
57.00	2275	131.00	235	205.00	5474	297.00	755
59.00	140	134.00	487	206.00	21064	301.00	150
61.00	273	135.00	1309	207.00	3085	303.00	741
62.00	134	136.00	980	208.00	832	304.00	310
63.00	1040	137.00	585	209.00	392	308.00	126
65.00	407	138.00	172	210.00	176	314.00	266
67.00	385	141.00	1182	211.00	932	315.00	826
68.00	404	142.00	237	212.00	226	316.00	324
69.00	23696	143.00	592	215.00	172	321.00	131
70.00	207	145.00	181	216.00	274	323.00	2005
71.00	128	146.00	180	217.00	5406	324.00	436
73.00	439	147.00	823	218.00	637	327.00	377
74.00	1776	148.00	1803	221.00	4424	328.00	255
75.00	3912	149.00	461	222.00	865	332.00	143
76.00	1143	151.00	292	223.00	1434	333.00	153
77.00	25512	153.00	496	224.00	11815	334.00	1141
78.00	1845	154.00	399	225.00	2714	335.00	400
79.00	2177	155.00	936	226.00	180	341.00	208
80.00	1244	156.00	1607	227.00	5002	346.00	233
81.00	2112	157.00	307	228.00	684	352.00	442
82.00	630	158.00	459	229.00	1441	353.00	229

83.00	770	159.00	331	231.00	520	354.00	784
84.00	1391	160.00	563	234.00	334	355.00	127
85.00	445	161.00	900	235.00	408	359.00	142
86.00	1275	162.00	270	236.00	188	365.00	2018
87.00	432	163.00	141	237.00	416	366.00	155
+-----+							
89.00	239	164.00	158	239.00	213	372.00	1135
91.00	571	165.00	1160	241.00	327	383.00	195
92.00	355	166.00	316	242.00	428	402.00	423
93.00	3567	167.00	3373	243.00	251	403.00	454
94.00	275	168.00	1914	244.00	8704	421.00	574
+-----+							
95.00	479	169.00	474	245.00	1129	422.00	460
96.00	400	172.00	475	246.00	1625	423.00	3579
97.00	285	173.00	272	247.00	468	424.00	645
98.00	2422	174.00	681	248.00	162	441.00	9091
99.00	1550	175.00	1383	249.00	615	442.00	70952
+-----+							
100.00	316	176.00	421	252.00	163	443.00	13707
101.00	1424	177.00	620	253.00	321	444.00	1299
103.00	542	178.00	158	255.00	48168		
104.00	578	179.00	2829	256.00	7098		
105.00	830	180.00	1586	257.00	607		
+-----+							
106.00	518	181.00	1101	258.00	2511		
+-----+							

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02005.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 02-MAY-2013 16:01  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : DFTPP-1525851  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\a-dftpp198.m  
 Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD  
 Cal Date : Cal File:  
 Als bottle: 2 QC Sample: DFTPP  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: 4.14 Sample Matrix: None  
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	( ug/L)	( ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
4.904	4.963	-0.059	198	103936			50.00-	0.00	100.00
4.904	4.963	-0.059	51	49616			10.00-	80.00	47.74
4.904	4.963	-0.059	68	0	0.0	0.0	0.00-	2.00	0.00
4.904	4.963	-0.059	69	43848			0.00-	0.00	42.19
4.904	4.963	-0.059	70	439			0.00-	2.00	1.00
4.904	4.963	-0.059	127	47864			10.00-	80.00	46.05
4.904	4.963	-0.059	197	0	0.0	0.0	0.00-	2.00	0.00
4.904	4.963	-0.059	442	52120			50.00-	0.00	50.15
4.904	4.963	-0.059	199	6218			5.00-	9.00	5.98
4.904	4.963	-0.059	275	22528			10.00-	60.00	21.67
4.904	4.963	-0.059	365	2331			1.00-	0.00	2.24
4.904	4.963	-0.059	441	7991			0.01-	99.99	78.97
4.904	4.963	-0.059	443	10119			15.00-	24.00	19.41

Data File: 1AE02005.D

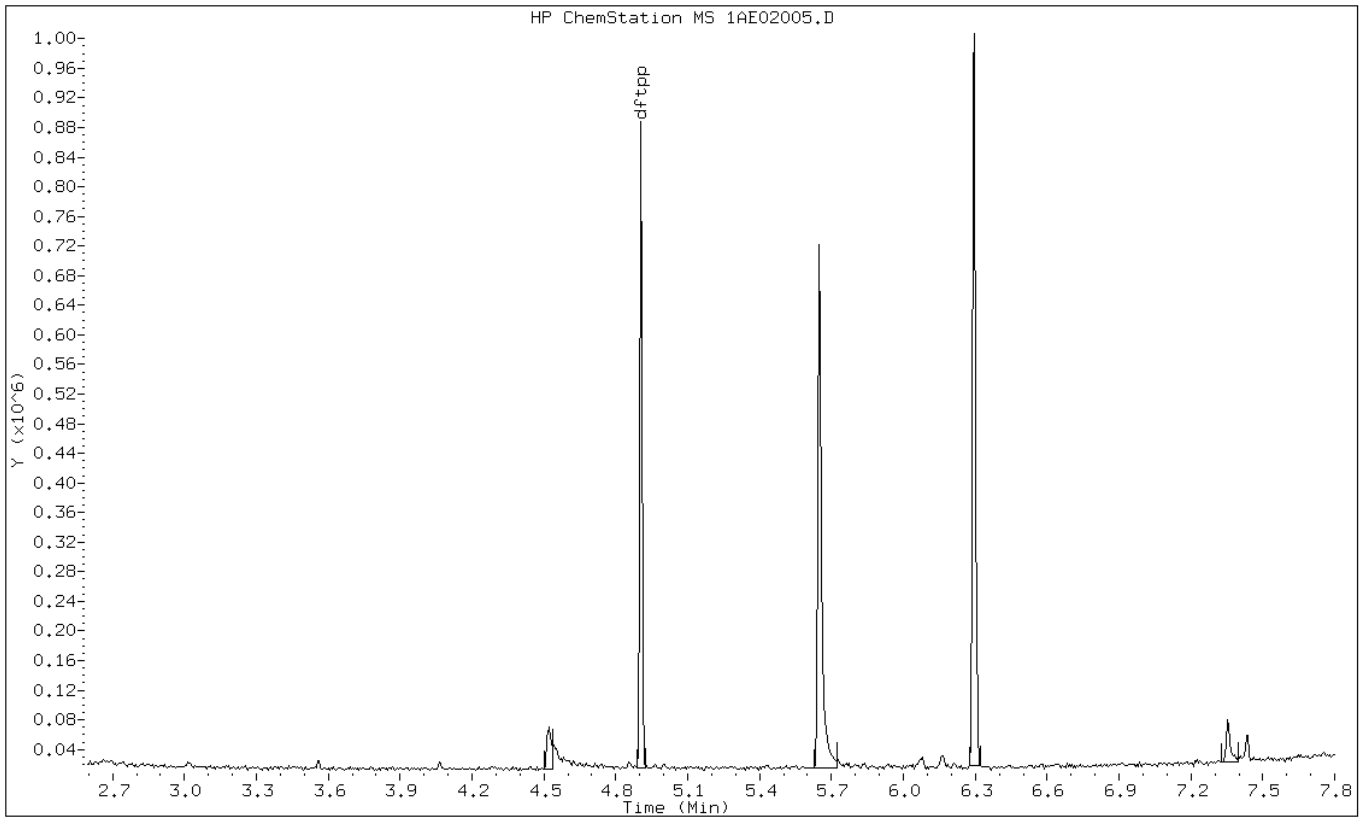
Date: 02-MAY-2013 16:01

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC



Data File: 1AE02005.D

Date: 02-MAY-2013 16:01

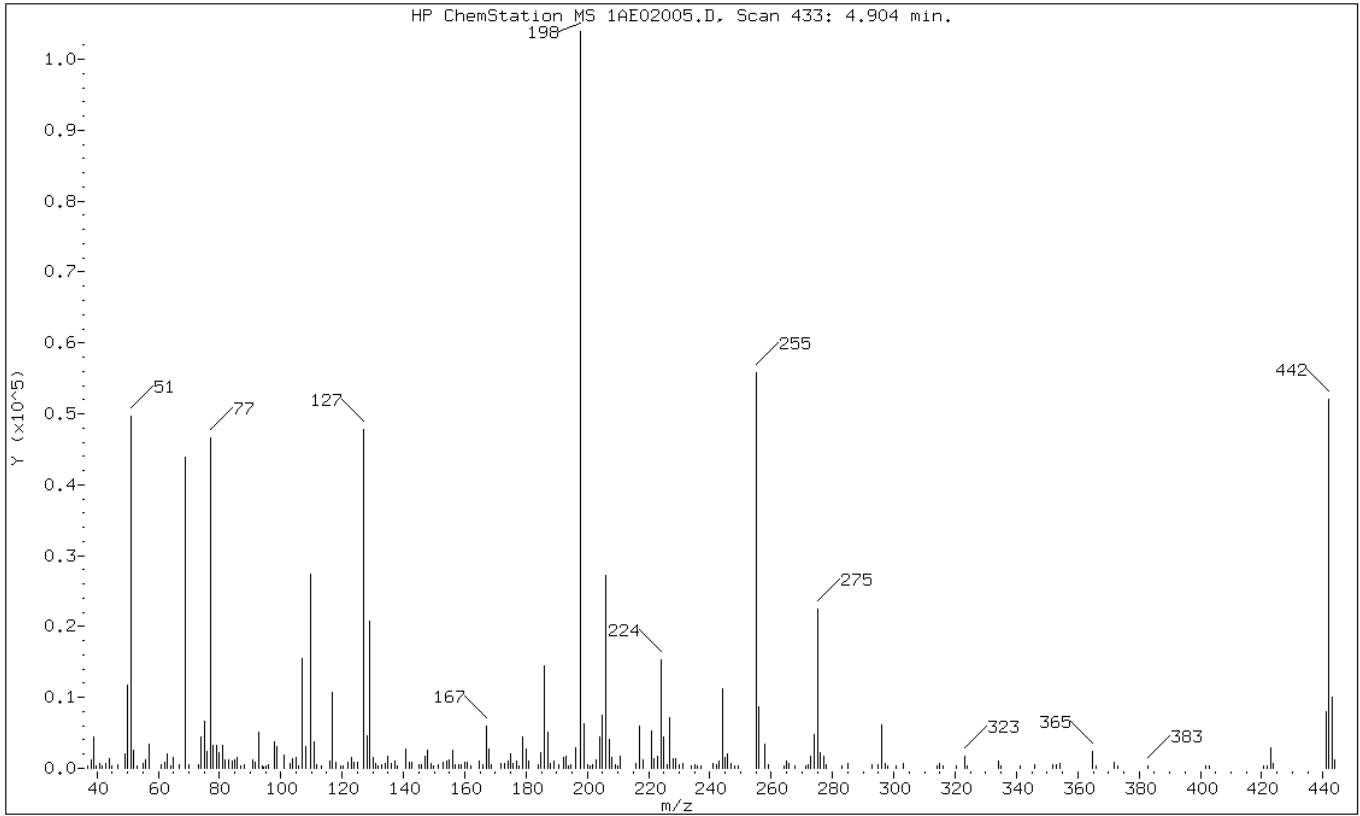
Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	47.74
68	Less than 2.00% of mass 69	0.00 ( 0.00)
69	Mass 69 relative abundance	42.19
70	Less than 2.00% of mass 69	0.42 ( 1.00)
127	10.00 - 80.00% of mass 198	46.05
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	50.15
199	5.00 - 9.00% of mass 198	5.98
275	10.00 - 60.00% of mass 198	21.67
365	Greater than 1.00% of mass 198	2.24
441	Present, but less than mass 443	7.69
443	15.00 - 24.00% of mass 442	9.74 ( 19.41)

Data File: 1AE02005.D

Date: 02-MAY-2013 16:01

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC

Data File: \\tam-chemsrv\chem\SM\BSMA5973.i\1A050213.b\1AE02005.D

Spectrum: HP ChemStation MS 1AE02005.D, Scan 433: 4.904 min.

Location of Maximum: 197.90

Number of points: 224

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	335	108.00	2987	177.90	355	255.00	55792
38.00	1130	109.90	27400	179.00	4412	256.00	8666
39.00	4439	111.00	3773	180.00	2711	258.00	3374
39.90	420	111.80	466	180.90	943	258.90	437
41.00	727	113.10	291	184.00	515	264.10	373
41.90	259	116.10	975	184.90	2278	265.00	1042
43.00	677	116.90	10639	186.00	14445	265.90	601
43.90	1391	118.00	840	187.00	5058	267.80	358
44.90	272	119.70	299	188.00	603	271.10	311
46.80	432	120.20	399	189.00	946	271.90	446
49.00	2096	121.80	802	190.80	595	272.90	1759
50.00	11807	122.90	1458	192.10	1562	274.00	4684
51.00	49616	123.90	829	192.90	1705	275.00	22528
52.00	2556	125.00	819	193.90	343	276.00	2215
53.10	325	127.00	47864	194.70	437	277.00	1764
55.10	657	128.00	4618	196.00	2811	278.00	465
56.00	1265	129.00	20680	197.90	103936	283.10	404
57.00	3372	130.00	1535	199.00	6218	285.00	636
60.90	462	130.90	762	200.00	562	292.80	471
62.00	795	131.80	323	200.80	288	294.90	432
63.10	2094	133.00	431	201.50	574	296.00	6159
64.00	351	133.90	683	203.00	1237	297.00	751
65.00	1475	135.00	1707	204.00	4429	298.00	275
66.90	485	136.00	610	205.00	7412	300.80	331
68.90	43848	137.20	1024	206.00	27200	303.20	627
69.90	439	138.00	311	207.00	4083	314.00	281
73.10	574	140.90	2804	208.00	1498	315.00	718
74.00	4403	141.90	818	209.10	495	316.00	303
75.00	6643	142.90	831	210.10	396	320.50	308
76.10	2301	144.90	473	210.90	1661	323.10	1620
77.00	46672	146.00	492	216.00	705	324.10	407
78.00	3193	147.00	1637	217.00	5965	334.00	1072
78.90	3268	148.00	2527	218.00	1175	335.00	342
80.00	2213	149.10	657	221.00	5252	341.10	261
81.00	3243	149.90	292	221.80	1394	345.90	515
82.00	1126	151.20	474	223.10	1701	352.00	521
83.00	1136	152.90	871	224.00	15286	353.10	585
84.00	975	154.10	972	224.90	4427	354.20	644
85.00	1111	154.90	1244	226.00	591	364.90	2331
85.90	1533	155.90	2625	227.00	7163	366.10	258



86.90	405	156.90	545	228.00	1326	372.00	912
87.90	565	158.00	437	229.00	1409	373.00	275
91.00	1267	159.00	555	229.80	467	383.00	406
91.80	882	159.90	776	231.00	609	401.80	306
92.90	5108	160.90	785	233.90	367	403.00	400
+-----+							
93.90	288	161.90	344	234.90	576	420.80	284
94.20	252	164.90	1014	236.00	373	421.60	405
95.00	304	166.00	595	237.10	425	422.90	2834
96.00	573	167.00	5935	240.90	730	423.90	614
98.00	3736	167.90	2761	242.00	475	440.90	7991
+-----+							
98.90	3046	168.80	563	243.00	952	442.00	52120
100.90	1818	172.00	682	244.00	11184	442.90	10119
102.90	597	172.90	699	245.00	1448	443.80	1179
104.00	1380	174.00	1032	245.90	2085		
104.90	1447	174.90	2103	246.90	636		
+-----+							
105.80	356	175.90	651	248.20	375		
107.00	15490	176.90	1024	249.10	392		
+-----+							

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 06-MAY-2013 10:11  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : DFTPP-1525851  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-dftpp198.m  
 Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD  
 Cal Date : Cal File:  
 Als bottle: 2 QC Sample: DFTPP  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: 4.14 Sample Matrix: None  
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	( ug/L)	( ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
4.893	4.963	-0.070	198	57528			50.00-	0.00	100.00
4.893	4.963	-0.070	51	21778			10.00-	80.00	37.86
4.893	4.963	-0.070	68	150			0.00-	2.00	0.78
4.893	4.963	-0.070	69	19303			0.00-	0.00	33.55
4.893	4.963	-0.070	70	321			0.00-	2.00	1.66
4.893	4.963	-0.070	127	26701			10.00-	80.00	46.41
4.893	4.963	-0.070	197	0	0.0	0.0	0.00-	2.00	0.00
4.893	4.963	-0.070	442	50968			50.00-	0.00	88.60
4.893	4.963	-0.070	199	4201			5.00-	9.00	7.30
4.893	4.963	-0.070	275	14341			10.00-	60.00	24.93
4.893	4.963	-0.070	365	1641			1.00-	0.00	2.85
4.893	4.963	-0.070	441	7097			0.01-	99.99	75.79
4.893	4.963	-0.070	443	9364			15.00-	24.00	18.37

Data File: 1AE06002.D

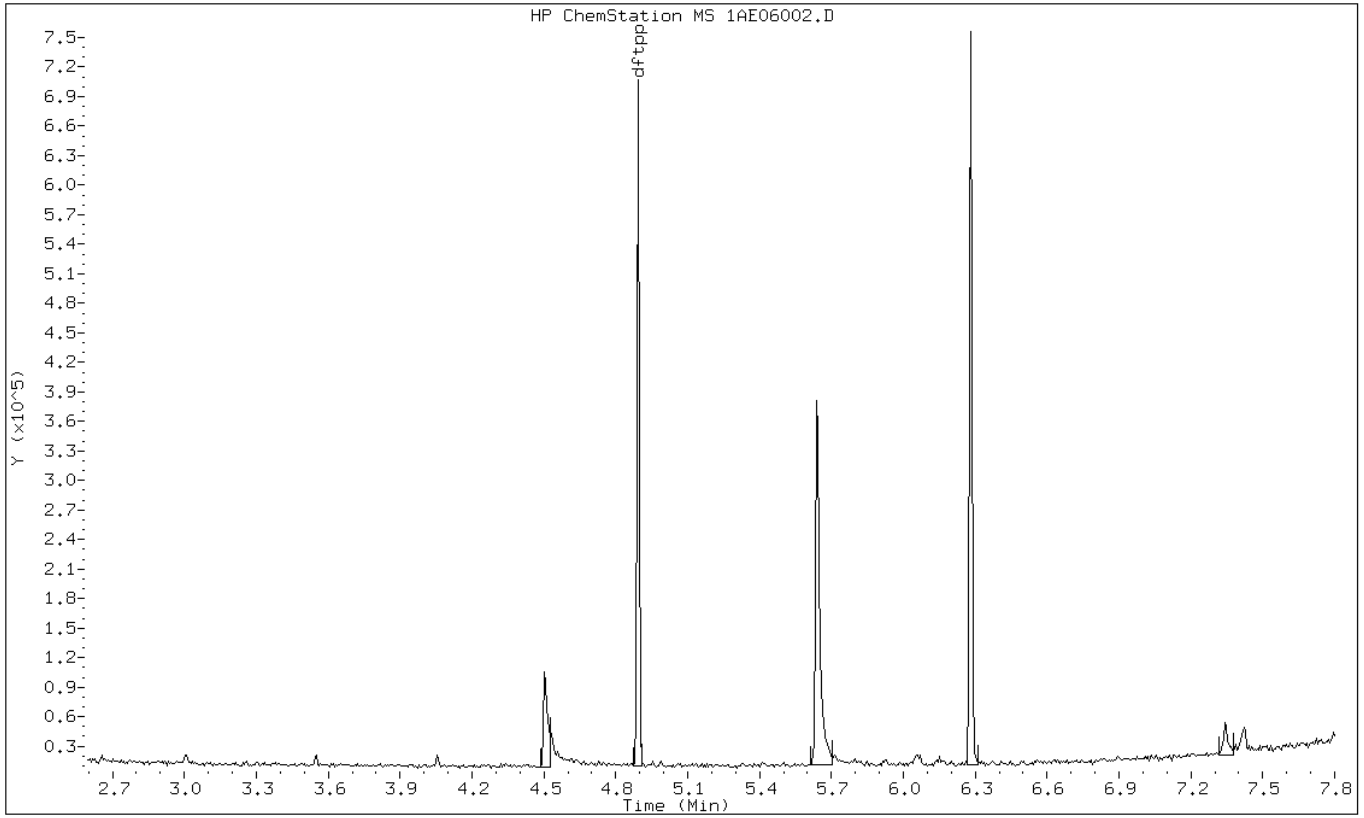
Date: 06-MAY-2013 10:11

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC



Data File: 1AE06002.D

Date: 06-MAY-2013 10:11

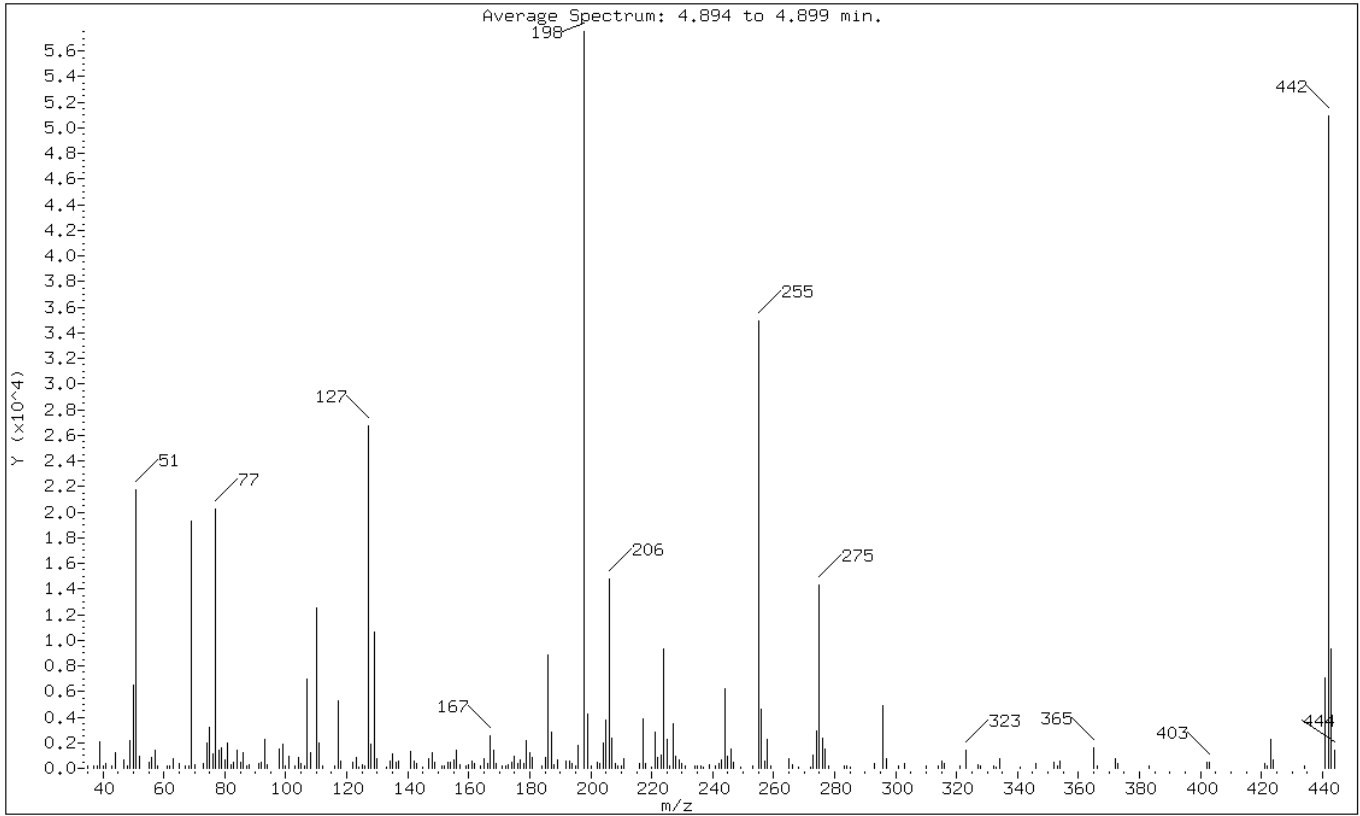
Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	37.86
68	Less than 2.00% of mass 69	0.26 ( 0.78)
69	Mass 69 relative abundance	33.55
70	Less than 2.00% of mass 69	0.56 ( 1.66)
127	10.00 - 80.00% of mass 198	46.41
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	88.60
199	5.00 - 9.00% of mass 198	7.30
275	10.00 - 60.00% of mass 198	24.93
365	Greater than 1.00% of mass 198	2.85
441	Present, but less than mass 443	12.34
443	15.00 - 24.00% of mass 442	16.28 ( 18.37)

Data File: 1AE06002.D

Date: 06-MAY-2013 10:11

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC

Data File: \\tam-chemsrv\chem\SM\BSMA5973.i\1A050613.b\1AE06002.D

Spectrum: Average Spectrum: 4.894 to 4.899 min.

Location of Maximum: 198.00

Number of points: 219

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	163	108.00	1239	181.00	851	256.00	4636
37.00	156	110.00	12507	184.00	149	257.00	523
38.00	198	111.00	1967	185.00	803	258.00	2260
39.00	2065	112.00	171	186.00	8887	259.00	189
40.00	227	116.00	201	187.00	2798	265.00	774
41.00	402	117.00	5309	188.00	238	266.00	253
43.00	157	118.00	581	189.00	658	268.00	138
44.00	1183	122.00	433	192.00	597	272.00	132
47.00	644	123.00	860	193.00	519	273.00	1005
48.00	173	124.00	130	194.00	402	274.00	2879
49.00	2203	125.00	327	195.00	179	275.00	14341
50.00	6482	126.00	144	196.00	1807	276.00	2336
51.00	21776	127.00	26696	198.00	57528	277.00	1475
52.00	935	128.00	1902	199.00	4201	278.00	147
55.00	483	129.00	10602	200.00	146	283.00	142
56.00	828	130.00	798	202.00	501	284.00	171
57.00	1410	133.00	131	203.00	342	285.00	130
58.00	157	134.00	589	204.00	1990	293.00	374
61.00	226	135.00	1111	205.00	3759	296.00	4873
62.00	219	136.00	509	206.00	14757	297.00	798
63.00	710	137.00	544	207.00	2319	301.00	159
65.00	363	141.00	1360	208.00	334	303.00	401
67.00	154	142.00	519	209.00	187	310.00	191
68.00	150	143.00	362	210.00	163	314.00	181
69.00	19296	145.00	132	211.00	732	315.00	566
70.00	321	147.00	775	216.00	411	316.00	405
73.00	350	148.00	1196	217.00	3840	321.00	172
74.00	1963	149.00	428	218.00	401	323.00	1437
75.00	3170	151.00	180	220.00	129	327.00	272
76.00	1099	152.00	156	221.00	2850	328.00	187
77.00	20232	153.00	492	222.00	804	332.00	163
78.00	1369	154.00	514	223.00	1004	333.00	133
79.00	1624	155.00	638	224.00	9288	334.00	783
80.00	676	156.00	1388	225.00	2223	341.00	125
81.00	1934	157.00	302	226.00	171	346.00	355
82.00	244	159.00	191	227.00	3480	352.00	462
83.00	509	160.00	265	228.00	907	353.00	202
84.00	1383	161.00	547	229.00	688	354.00	531
85.00	492	162.00	334	230.00	358	365.00	1641
86.00	1181	164.00	196	231.00	145	366.00	175

87.00	202	165.00	726	234.00	224	372.00	775
88.00	293	166.00	399	235.00	156	373.00	397
91.00	342	167.00	2575	236.00	170	383.00	218
92.00	461	168.00	1370	237.00	137	402.00	427
93.00	2305	169.00	331	239.00	280	403.00	432
+-----+-----+-----+-----+-----+-----+-----+-----+							
94.00	254	171.00	162	241.00	228	421.00	371
98.00	1468	172.00	183	242.00	360	422.00	142
99.00	1901	173.00	275	243.00	647	423.00	2274
100.00	194	174.00	453	244.00	6260	424.00	676
101.00	952	175.00	907	245.00	931	434.00	158
+-----+-----+-----+-----+-----+-----+-----+-----+							
103.00	216	176.00	340	246.00	1492	441.00	7097
104.00	886	177.00	695	247.00	478	442.00	50968
105.00	404	178.00	416	249.00	129	443.00	9364
106.00	232	179.00	2194	253.00	142	444.00	1393
107.00	6935	180.00	1266	255.00	34928		
+-----+-----+-----+-----+-----+-----+-----+-----+							

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 660-136938/1-A  
 Matrix: Solid Lab File ID: 1AE01008.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/29/2013 14:27  
 Sample wt/vol: 15.06(g) Date Analyzed: 05/01/2013 14:46  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137001 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.4	U	8.4	4.2
56-55-3	Benzo[a]anthracene	8.0	U	8.0	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	8.0	U	8.0	3.6
218-01-9	Chrysene	9.0	U	9.0	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.1
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	8.0	U	8.0	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	84		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01008.D  
 Lab Smp Id: MB 660-136938/1-A  
 Inj Date : 01-MAY-2013 14:46  
 Operator : SCC  
 Smp Info : MB 660-136938/1-A  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\a-bFASTPAHi-m.m  
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 5 QC Sample: BLANK  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.060	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.562	2.563	(1.000)	1636438	40.0000	
* 6 Acenaphthene-d10	164		3.587	3.594	(1.000)	863141	40.0000	
* 10 Phenanthrene-d10	188		4.544	4.544	(1.000)	1397479	40.0000	
\$ 14 o-Terphenyl	230		4.843	4.844	(1.066)	191118	8.36119	555.1917
* 18 Chrysene-d12	240		6.568	6.574	(1.000)	1389979	40.0000	
* 23 Perylene-d12	264		7.653	7.659	(1.000)	1362725	40.0000	



Data File: 1AE01008.D

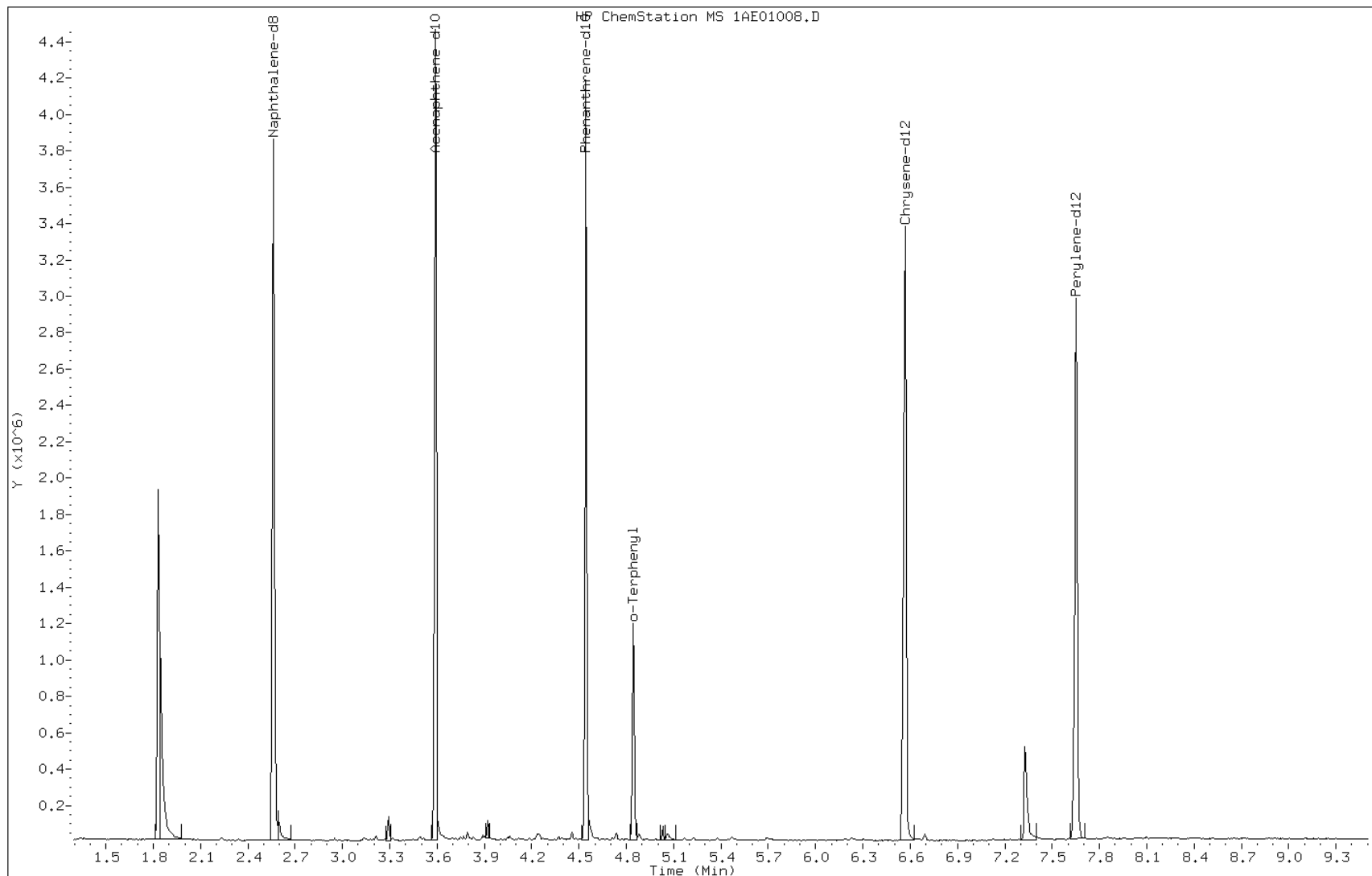
Date: 01-MAY-2013 14:46

Client ID:

Instrument: BSMA5973.i

Sample Info: MB 660-136938/1-A

Operator: SCC



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 660-136958/1-A  
 Matrix: Solid Lab File ID: 1AD30008.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/30/2013 09:33  
 Sample wt/vol: 15.13(g) Date Analyzed: 04/30/2013 13:13  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136977 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	7.9	U	7.9	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.0
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	7.9	U	7.9	3.6
218-01-9	Chrysene	8.9	U	8.9	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.0
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	7.9	U	7.9	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	64		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A043013.b\1AD30008.D  
 Lab Smp Id: MB 660-136958/1-A  
 Inj Date : 30-APR-2013 13:13  
 Operator : SCC  
 Smp Info : MB 660-136958/1-A  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A043013.b\a-bFASTPAHi-m.m  
 Meth Date : 30-Apr-2013 11:48 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 7 QC Sample: BLANK  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.130	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.566	2.568	(1.000)	2067614	40.0000	
* 6 Acenaphthene-d10	164		3.602	3.599	(1.000)	1070671	40.0000	
* 10 Phenanthrene-d10	188		4.553	4.550	(1.000)	1643618	40.0000	
\$ 14 o-Terphenyl	230		4.852	4.854	(1.066)	171035	6.36203	420.4911
* 18 Chrysene-d12	240		6.567	6.574	(1.000)	1474300	40.0000	
* 23 Perylene-d12	264		7.657	7.659	(1.000)	1471036	40.0000	

Data File: 1AD30008.D

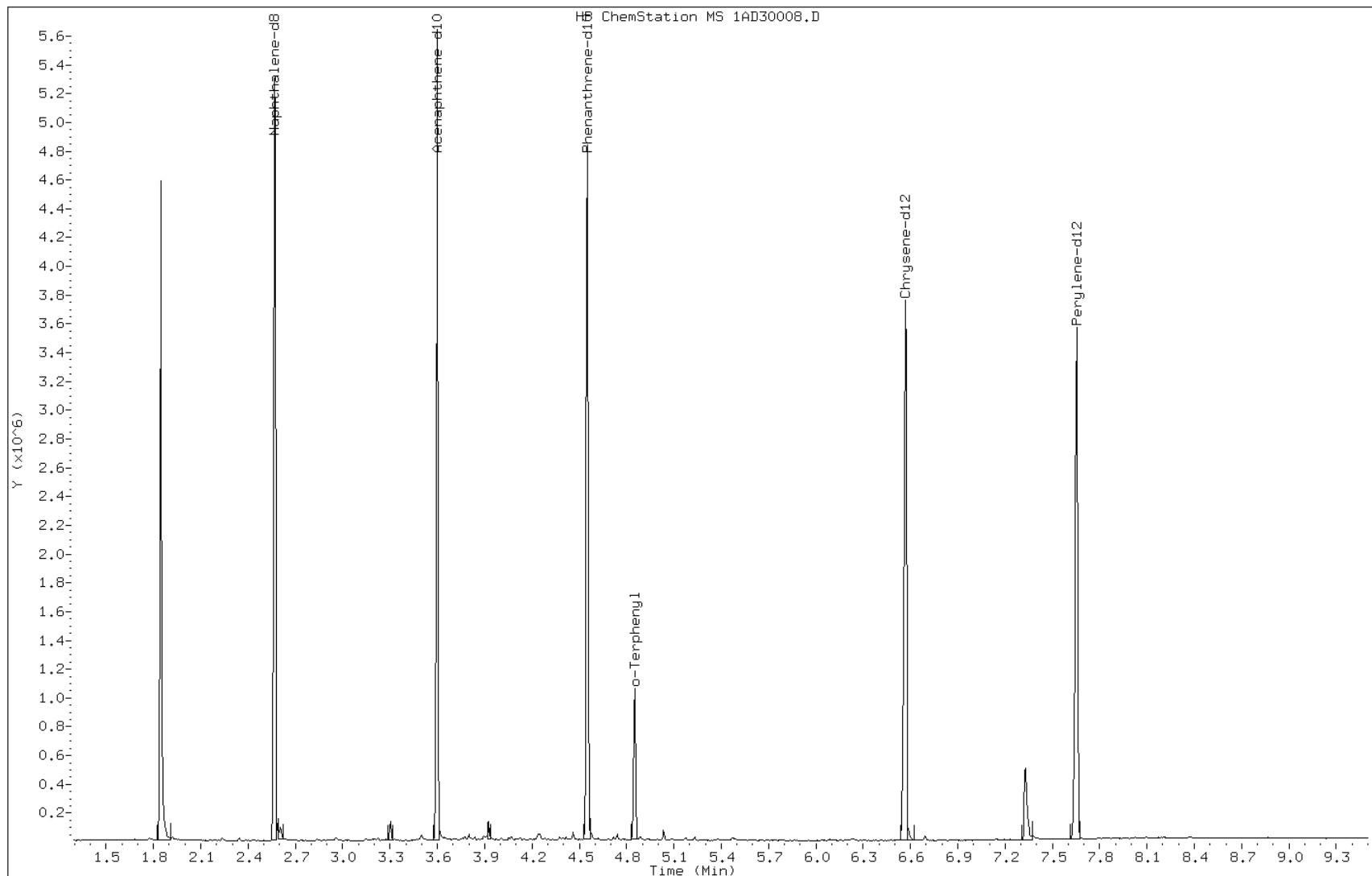
Date: 30-APR-2013 13:13

Client ID:

Instrument: BSMA5973.i

Sample Info: MB 660-136958/1-A

Operator: SCC



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 660-136975/1-A  
 Matrix: Solid Lab File ID: 1AE02008.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/30/2013 14:42  
 Sample wt/vol: 14.95(g) Date Analyzed: 05/02/2013 16:56  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137070 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.4	U	8.4	4.2
56-55-3	Benzo[a]anthracene	8.0	U	8.0	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	8.0	U	8.0	3.6
218-01-9	Chrysene	9.0	U	9.0	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.1
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	8.0	U	8.0	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	57		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02008.D  
 Lab Smp Id: MB 660-136975/1-A  
 Inj Date : 02-MAY-2013 16:56  
 Operator : SCC  
 Smp Info : MB 660-136975/1-A  
 Misc Info : RE-RUN  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\A-BFASTPAHi-m.m  
 Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 5 QC Sample: BLANK  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.551	2.550	(1.000)	1328871	40.0000	
* 6 Acenaphthene-d10	164		3.582	3.581	(1.000)	712860	40.0000	
* 10 Phenanthrene-d10	188		4.528	4.532	(1.000)	1189239	40.0000	
\$ 14 o-Terphenyl	230		4.827	4.831	(1.066)	110764	5.69431	380.8903
* 18 Chrysene-d12	240		6.547	6.551	(1.000)	1170549	40.0000	
* 23 Perylene-d12	264		7.631	7.641	(1.000)	1144344	40.0000	

Data File: 1AE02008.D

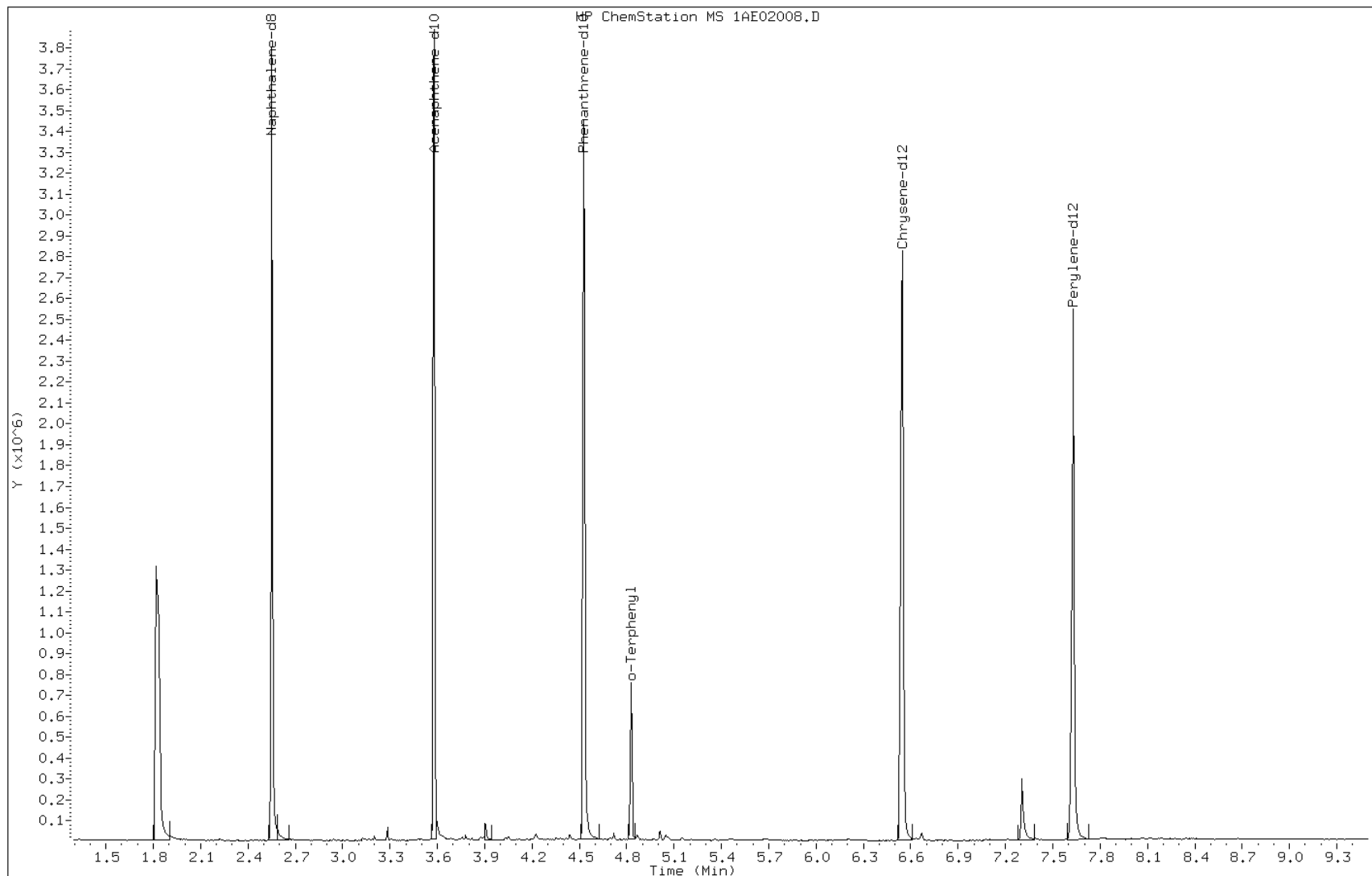
Date: 02-MAY-2013 16:56

Client ID:

Instrument: BSMA5973.i

Sample Info: MB 660-136975/1-A

Operator: SCC



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 660-137132/1-A  
 Matrix: Solid Lab File ID: 1AE06018.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 05/06/2013 08:14  
 Sample wt/vol: 15.12(g) Date Analyzed: 05/06/2013 15:08  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137156 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	7.9	U	7.9	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	7.9	U	7.9	3.6
218-01-9	Chrysene	8.9	U	8.9	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.0
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	7.9	U	7.9	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	61		30-130



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06018.D  
 Lab Smp Id: mb 660-137132/1-a  
 Inj Date : 06-MAY-2013 15:08  
 Operator : SCC  
 Smp Info : mb 660-137132/1-a  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06018.D  
 Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD  
 Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D  
 Als bottle: 18 QC Sample: BLANK  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.120	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.543	2.544	(1.000)	1640003	40.0000	
* 6 Acenaphthene-d10	164		3.574	3.575	(1.000)	834813	40.0000	
* 10 Phenanthrene-d10	188		4.525	4.521	(1.000)	1379503	40.0000	
\$ 14 o-Terphenyl	230		4.819	4.820	(1.065)	120974	6.12722	405.2395
* 18 Chrysene-d12	240		6.539	6.535	(1.000)	1030752	40.0000	
* 23 Perylene-d12	264		7.629	7.630	(1.000)	1093945	40.0000	

Data File: 1AE06018.D

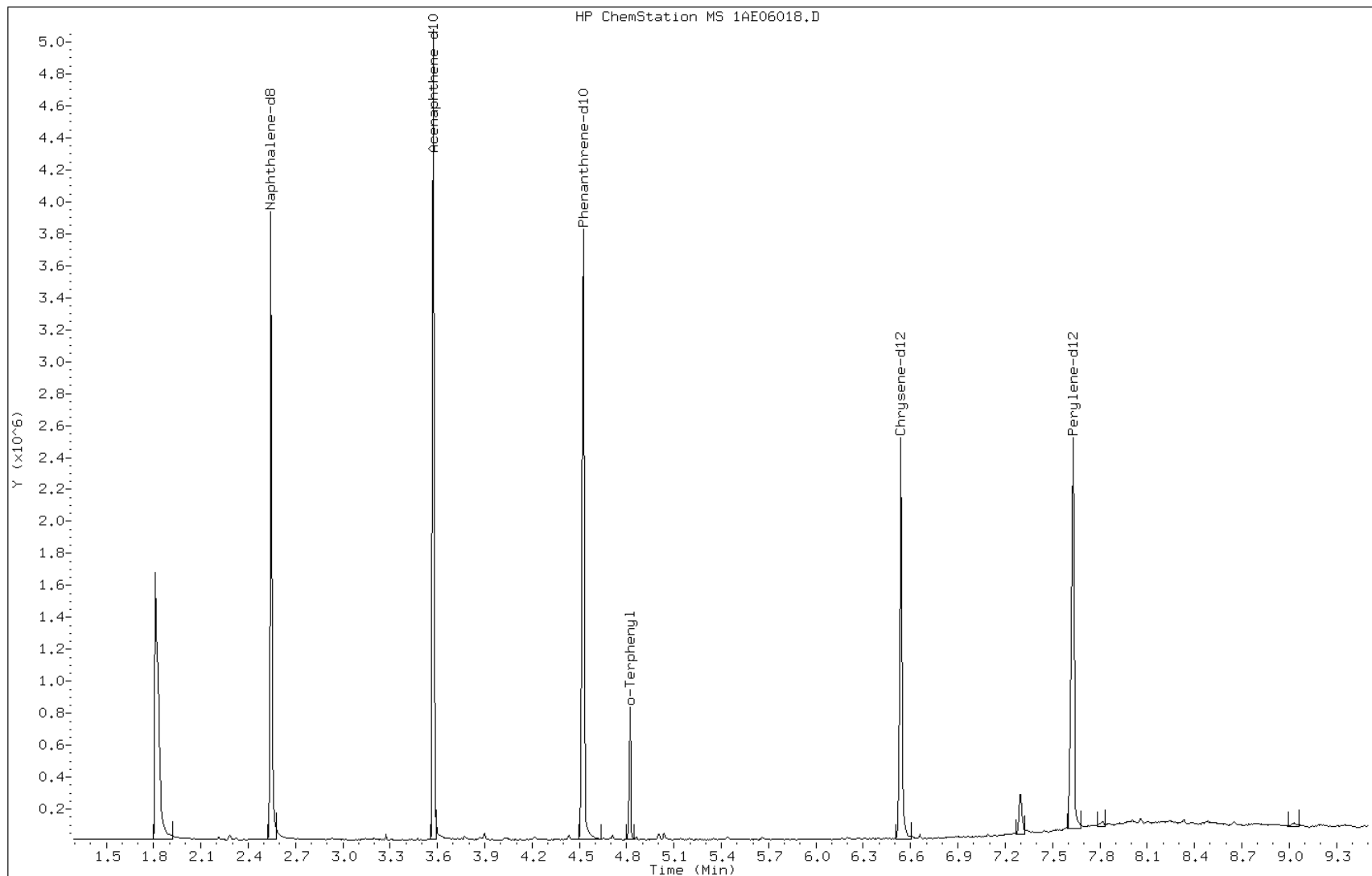
Date: 06-MAY-2013 15:08

Client ID:

Instrument: BSMA5973.i

Sample Info: mb 660-137132/1-a

Operator: SCC



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 660-136938/2-A  
 Matrix: Solid Lab File ID: 1AE01009.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/29/2013 14:27  
 Sample wt/vol: 15.00(g) Date Analyzed: 05/01/2013 15:02  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137001 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	453		100	20
208-96-8	Acenaphthylene	466		40	5.0
120-12-7	Anthracene	487		8.4	4.2
56-55-3	Benzo[a]anthracene	509		8.0	3.9
50-32-8	Benzo[a]pyrene	496		10	5.2
205-99-2	Benzo[b]fluoranthene	523		12	6.1
191-24-2	Benzo[g,h,i]perylene	525		20	4.4
207-08-9	Benzo[k]fluoranthene	516		8.0	3.6
218-01-9	Chrysene	484		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	593		20	4.1
206-44-0	Fluoranthene	524		20	4.0
86-73-7	Fluorene	485		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	560		20	7.1
90-12-0	1-Methylnaphthalene	530		40	4.4
91-57-6	2-Methylnaphthalene	505		40	7.1
91-20-3	Naphthalene	497		40	4.4
85-01-8	Phenanthrene	471		8.0	3.9
129-00-0	Pyrene	484		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	71		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01009.D  
 Lab Smp Id: lcs 660-136938/2-a  
 Inj Date : 01-MAY-2013 15:02  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : lcs 660-136938/2-a  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\a-bFASTPAHi-m.m  
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 6 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.559	2.563	(1.000)	1571668	40.0000	
* 6 Acenaphthene-d10	164		3.590	3.594	(1.000)	823778	40.0000	
* 10 Phenanthrene-d10	188		4.541	4.544	(1.000)	1440816	40.0000	
\$ 14 o-Terphenyl	230		4.846	4.844	(1.067)	167717	7.11673	474.4483
* 18 Chrysene-d12	240		6.566	6.574	(1.000)	1384316	40.0000	
* 23 Perylene-d12	264		7.656	7.659	(1.000)	1342428	40.0000	
2 Naphthalene	128		2.570	2.573	(1.004)	292883	7.45468	496.9786
3 2-Methylnaphthalene	141		2.976	2.979	(1.163)	170751	7.58053	505.3684
4 1-Methylnaphthalene	142		3.030	3.033	(1.184)	198333	7.94737	529.8249
5 Acenaphthylene	152		3.500	3.503	(0.975)	336284	6.98498	465.6654
7 Acenaphthene	154		3.606	3.610	(1.004)	171651	6.79864	453.2425
9 Fluorene	166		3.922	3.925	(1.092)	220817	7.26931	484.6208
11 Phenanthrene	178		4.557	4.560	(1.004)	294733	7.06158	470.7718
12 Anthracene	178		4.589	4.593	(1.011)	317267	7.31062	487.3747

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.723	4.726	(1.040)	288522	6.89158	459.4389
15 Fluoranthene	202	5.423	5.426	(1.194)	379195	7.86584	524.3893
16 Pyrene	202	5.588	5.592	(0.851)	383491	7.26135	484.0899
17 Benzo(a)anthracene	228	6.555	6.558	(0.998)	345263	7.63726	509.1506
19 Chrysene	228	6.582	6.590	(1.002)	333263	7.26631	484.4207
20 Benzo(b)fluoranthene	252	7.373	7.381	(0.963)	319654	7.84325	522.8831
21 Benzo(k)fluoranthene	252	7.394	7.402	(0.966)	362627	7.73879	515.9196
22 Benzo(a)pyrene	252	7.602	7.605	(0.993)	301951	7.44748	496.4983
24 Indeno(1,2,3-cd)pyrene	276	8.409	8.423	(1.098)	321848	8.40729	560.4859(M)
25 Dibenzo(a,h)anthracene	278	8.436	8.450	(1.102)	316878	8.89619	593.0793
26 Benzo(g,h,i)perylene	276	8.628	8.642	(1.127)	337241	7.87121	524.7472

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AE01009.D

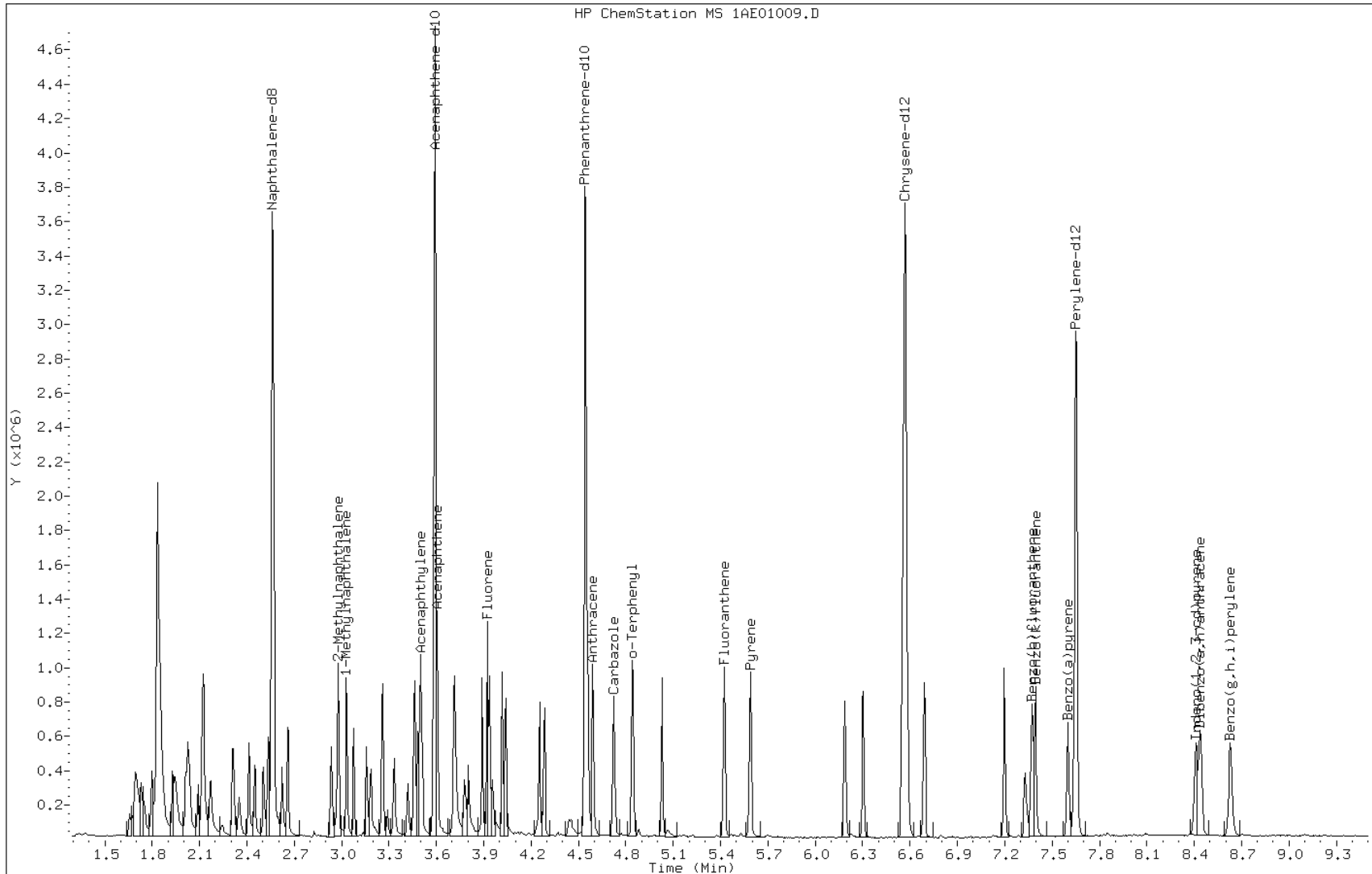
Date: 01-MAY-2013 15:02

Client ID:

Instrument: BSMA5973.i

Sample Info: lcs 660-136938/2-a

Operator: SCC

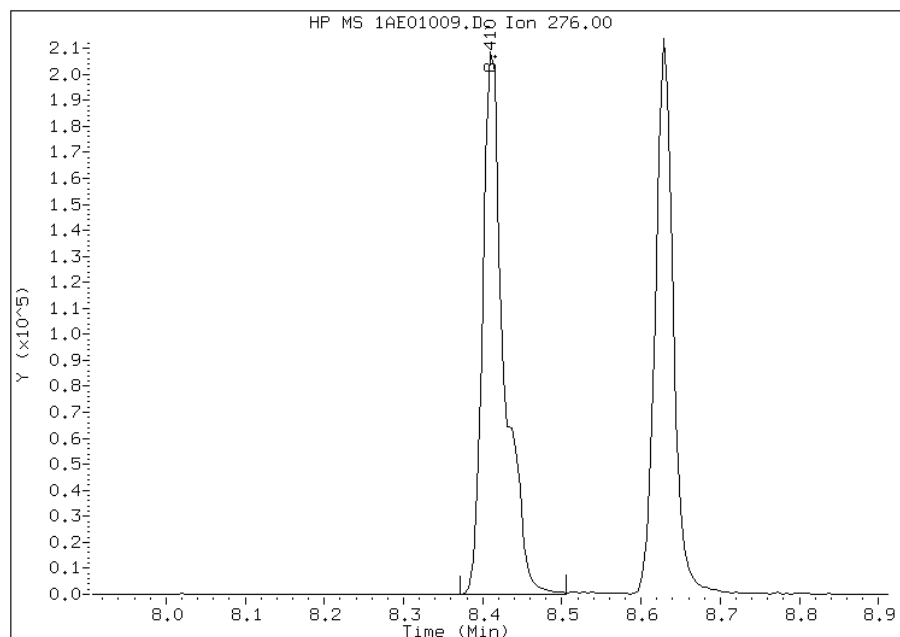


Manual Integration Report

Data File: 1AE01009.D  
Inj. Date and Time: 01-MAY-2013 15:02  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/01/2013

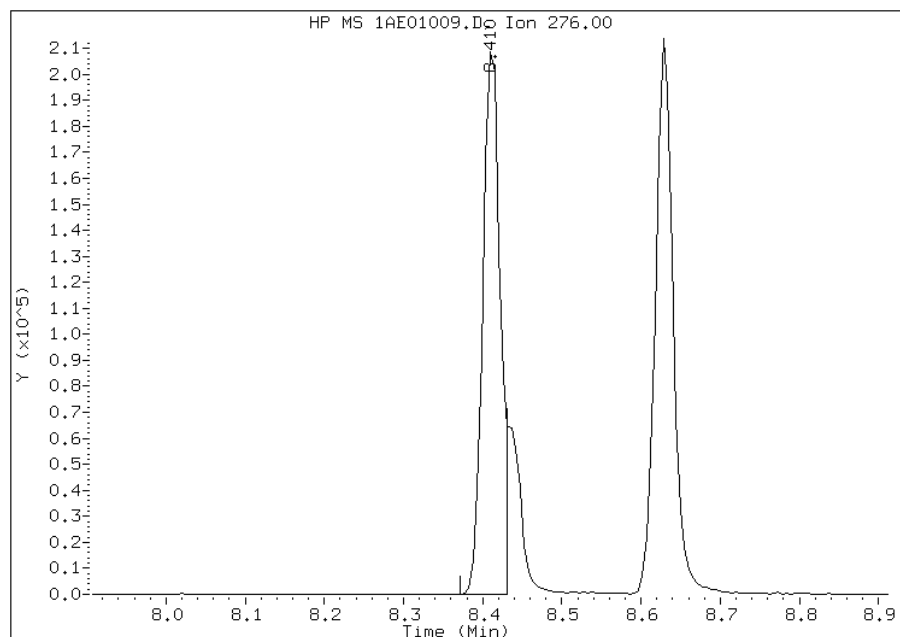
Processing Integration Results

RT: 8.41  
Response: 387715  
Amount: 10  
Conc: 675



Manual Integration Results

RT: 8.41  
Response: 321848  
Amount: 8  
Conc: 560



Manually Integrated By: cantins  
Modification Date: 01-May-2013 15:33  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 660-136958/2-A  
 Matrix: Solid Lab File ID: 1AD30009.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/30/2013 09:33  
 Sample wt/vol: 15.31(g) Date Analyzed: 04/30/2013 13:28  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136977 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	417		98	20
208-96-8	Acenaphthylene	428		39	4.9
120-12-7	Anthracene	414		8.2	4.1
56-55-3	Benzo[a]anthracene	450		7.8	3.8
50-32-8	Benzo[a]pyrene	427		10	5.1
205-99-2	Benzo[b]fluoranthene	484		12	6.0
191-24-2	Benzo[g,h,i]perylene	489		20	4.3
207-08-9	Benzo[k]fluoranthene	420		7.8	3.5
218-01-9	Chrysene	421		8.8	4.4
53-70-3	Dibenz(a,h)anthracene	550		20	4.0
206-44-0	Fluoranthene	443		20	3.9
86-73-7	Fluorene	432		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	534		20	7.0
90-12-0	1-Methylnaphthalene	472		39	4.3
91-57-6	2-Methylnaphthalene	457		39	7.0
91-20-3	Naphthalene	453		39	4.3
85-01-8	Phenanthrene	415		7.8	3.8
129-00-0	Pyrene	442		20	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	66		30-130



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A043013.b\1AD30009.D  
 Lab Smp Id: lcs 660-136958/2-a  
 Inj Date : 30-APR-2013 13:28  
 Operator : SCC  
 Smp Info : lcs 660-136958/2-a  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A043013.b\a-bFASTPAHi-m.m  
 Meth Date : 30-Apr-2013 11:48 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 8 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.310	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.570	2.568	(1.000)	1897367	40.0000	
* 6 Acenaphthene-d10	164		3.602	3.599	(1.000)	968647	40.0000	
* 10 Phenanthrene-d10	188		4.552	4.550	(1.000)	1607458	40.0000	
\$ 14 o-Terphenyl	230		4.852	4.854	(1.066)	174320	6.63009	433.0559
* 18 Chrysene-d12	240		6.572	6.574	(1.000)	1397185	40.0000	
* 23 Perylene-d12	264		7.651	7.659	(1.000)	1410784	40.0000	
2 Naphthalene	128		2.581	2.578	(1.004)	328871	6.93378	452.8920
3 2-Methylnaphthalene	141		2.987	2.984	(1.162)	190119	6.99151	456.6630
4 1-Methylnaphthalene	142		3.041	3.043	(1.183)	217548	7.22093	471.6480
5 Acenaphthylene	152		3.511	3.513	(0.975)	371055	6.55454	428.1212
7 Acenaphthene	154		3.618	3.620	(1.004)	189674	6.38893	417.3043
9 Fluorene	166		3.933	3.930	(1.092)	236456	6.61997	432.3949
11 Phenanthrene	178		4.563	4.566	(1.002)	296121	6.35933	415.3707
12 Anthracene	178		4.600	4.603	(1.011)	306713	6.33476	413.7664

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.729	4.731	(1.039)	305539	6.54147	427.2681
15 Fluoranthene	202	5.429	5.431	(1.192)	364763	6.78207	442.9829
16 Pyrene	202	5.594	5.597	(0.851)	360805	6.76887	442.1206
17 Benzo(a)anthracene	228	6.556	6.558	(0.998)	314635	6.89566	450.4024
19 Chrysene	228	6.588	6.590	(1.002)	298291	6.44389	420.8944
20 Benzo(b)fluoranthene	252	7.373	7.381	(0.964)	317316	7.40864	483.9082
21 Benzo(k)fluoranthene	252	7.394	7.402	(0.966)	316296	6.42299	419.5291
22 Benzo(a)pyrene	252	7.597	7.611	(0.993)	278856	6.54460	427.4722
24 Indeno(1,2,3-cd)pyrene	276	8.404	8.423	(1.098)	328916	8.17562	534.0051
25 Dibenzo(a,h)anthracene	278	8.431	8.449	(1.102)	315111	8.41794	549.8330
26 Benzo(g,h,i)perylene	276	8.623	8.647	(1.127)	337047	7.48552	488.9301

Data File: 1AD30009.D

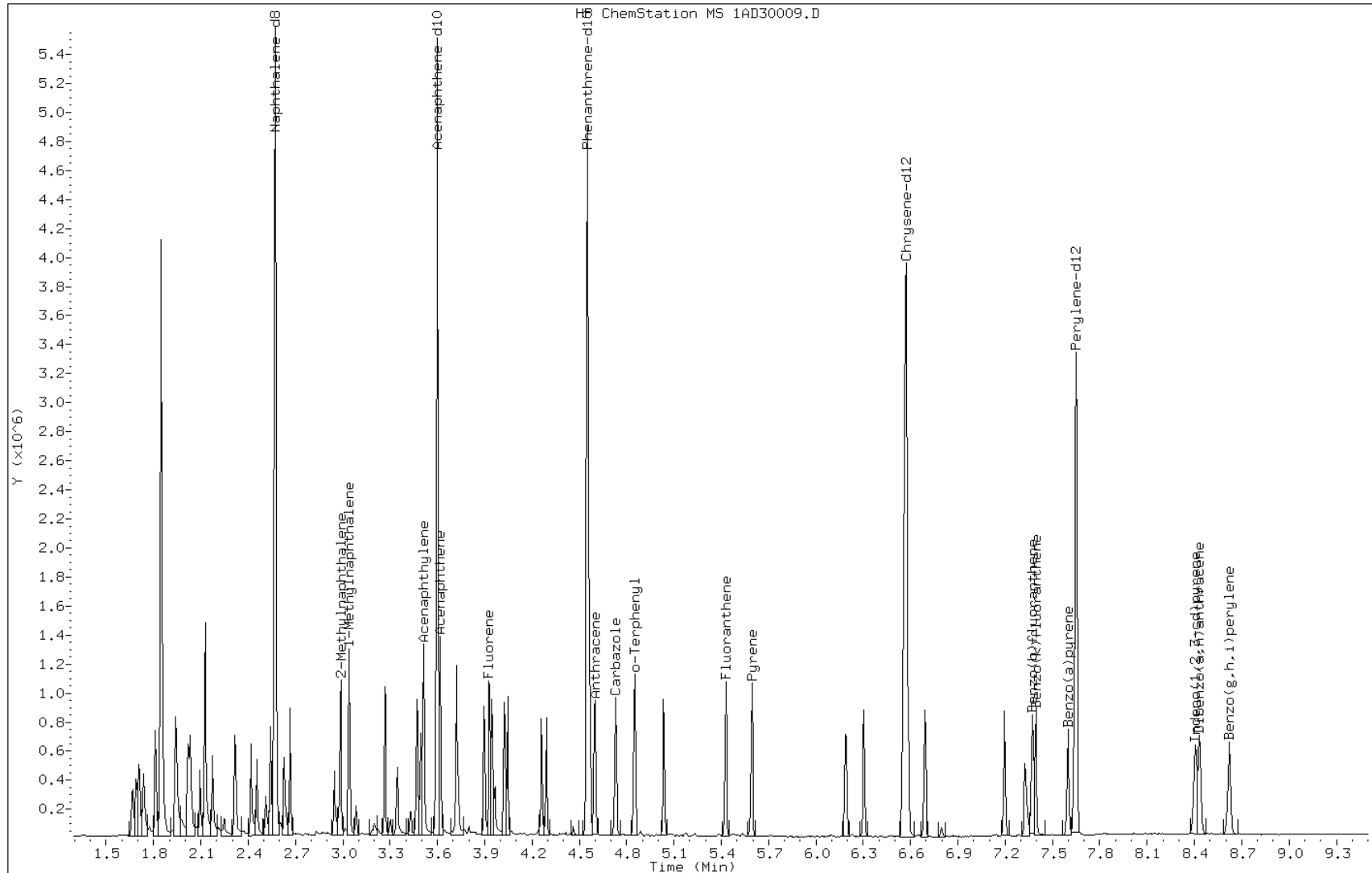
Date: 30-APR-2013 13:28

Client ID:

Instrument: BSMA5973.i

Sample Info: lcs 660-136958/2-a

Operator: SCC



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 660-136975/2-A  
 Matrix: Solid Lab File ID: 1AE02010.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/30/2013 14:42  
 Sample wt/vol: 14.99(g) Date Analyzed: 05/02/2013 17:26  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137070 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	324		100	20
208-96-8	Acenaphthylene	331		40	5.0
120-12-7	Anthracene	412		8.4	4.2
56-55-3	Benzo[a]anthracene	393		8.0	3.9
50-32-8	Benzo[a]pyrene	341		10	5.2
205-99-2	Benzo[b]fluoranthene	352		12	6.1
191-24-2	Benzo[g,h,i]perylene	343		20	4.4
207-08-9	Benzo[k]fluoranthene	382		8.0	3.6
218-01-9	Chrysene	356		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	413		20	4.1
206-44-0	Fluoranthene	393		20	4.0
86-73-7	Fluorene	371		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	353		20	7.1
90-12-0	1-Methylnaphthalene	413		40	4.4
91-57-6	2-Methylnaphthalene	396		40	7.1
91-20-3	Naphthalene	391		40	4.4
85-01-8	Phenanthrene	412		8.0	3.9
129-00-0	Pyrene	372		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	58		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02010.D  
 Lab Smp Id: lcs 660-136975/2-a  
 Inj Date : 02-MAY-2013 17:26  
 Operator : SCC  
 Smp Info : lcs 660-136975/2-a  
 Misc Info : RE-RUN  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02010.D  
 Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 7 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.551	2.550	(1.000)	1623370	40.0000		
* 6 Acenaphthene-d10	164		3.582	3.581	(1.000)	940356	40.0000		
* 10 Phenanthrene-d10	188		4.533	4.532	(1.000)	1443047	40.0000		
\$ 14 o-Terphenyl	230		4.827	4.831	(1.065)	136591	5.78700	386.0571	
* 18 Chrysene-d12	240		6.552	6.551	(1.000)	1358032	40.0000		
* 23 Perylene-d12	264		7.637	7.641	(1.000)	1341044	40.0000		
2 Naphthalene	128		2.562	2.560	(1.004)	237736	5.85832	390.8151	
3 2-Methylnaphthalene	141		2.968	2.972	(1.163)	138018	5.93219	395.7432	
4 1-Methylnaphthalene	142		3.026	3.025	(1.186)	159701	6.19555	413.3119	
5 Acenaphthylene	152		3.491	3.490	(0.975)	272344	4.95558	330.5926	
7 Acenaphthene	154		3.598	3.597	(1.004)	139915	4.85465	323.8591	
9 Fluorene	166		3.913	3.912	(1.092)	192877	5.56236	371.0714	
11 Phenanthrene	178		4.544	4.548	(1.002)	257911	6.16980	411.5941	
12 Anthracene	178		4.581	4.580	(1.011)	268655	6.18091	412.3355	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.709	4.713	(1.039)	234046	5.58174	372.3640
15 Fluoranthene	202	5.409	5.413	(1.193)	284094	5.88400	392.5283
16 Pyrene	202	5.575	5.579	(0.851)	289027	5.57861	372.1552
17 Benzo(a)anthracene	228	6.542	6.540	(0.998)	261485	5.89603	393.3307
19 Chrysene	228	6.568	6.572	(1.002)	239873	5.33130	355.6574
20 Benzo(b)fluoranthene	252	7.354	7.363	(0.963)	215105	5.28341	352.4622
21 Benzo(k)fluoranthene	252	7.375	7.384	(0.966)	267948	5.72416	381.8651
22 Benzo(a)pyrene	252	7.583	7.593	(0.993)	207020	5.11132	340.9818
24 Indeno(1,2,3-cd)pyrene	276	8.385	8.405	(1.098)	202634	5.29865	353.4791(M)
25 Dibenzo(a,h)anthracene	278	8.411	8.431	(1.101)	220148	6.18692	412.7366
26 Benzo(g,h,i)perylene	276	8.598	8.624	(1.126)	220282	5.14669	343.3415

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AE02010.D

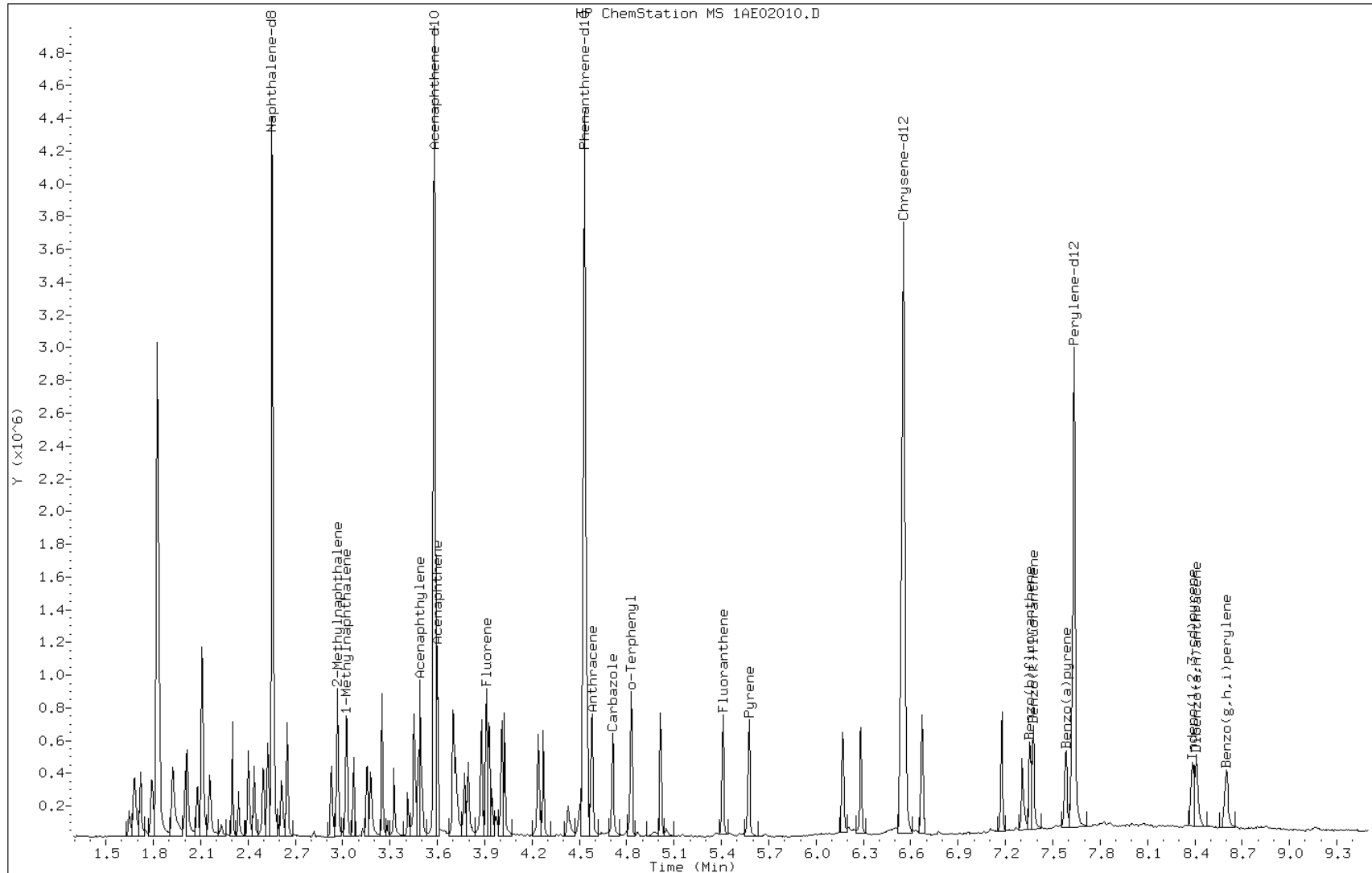
Date: 02-MAY-2013 17:26

Client ID:

Instrument: BSMA5973.i

Sample Info: lcs 660-136975/2-a

Operator: SCC

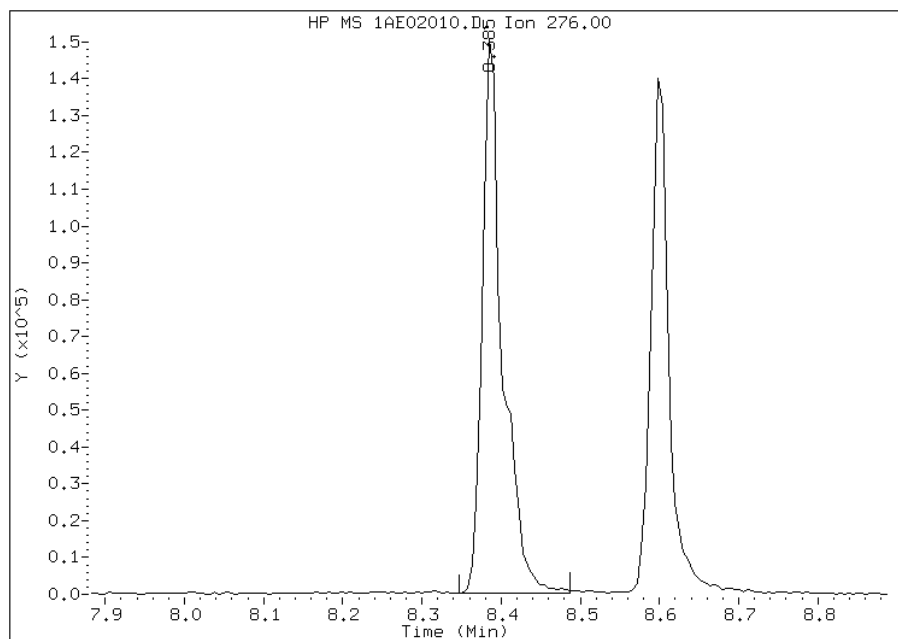


# Manual Integration Report

Data File: 1AE02010.D  
Inj. Date and Time: 02-MAY-2013 17:26  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/03/2013

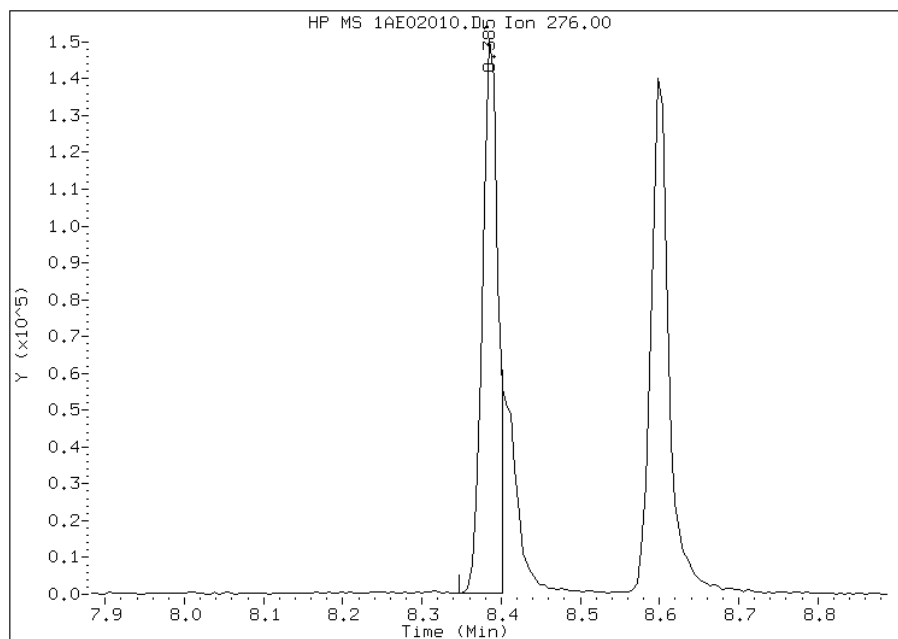
## Processing Integration Results

RT: 8.39  
Response: 264936  
Amount: 7  
Conc: 462



## Manual Integration Results

RT: 8.39  
Response: 202634  
Amount: 5  
Conc: 353



Manually Integrated By: cantins  
Modification Date: 03-May-2013 10:25  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 660-137132/2-A  
 Matrix: Solid Lab File ID: 1AE06019.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 05/06/2013 08:14  
 Sample wt/vol: 14.92(g) Date Analyzed: 05/06/2013 15:24  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137156 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	373		100	20
208-96-8	Acenaphthylene	430		40	5.0
120-12-7	Anthracene	428		8.4	4.2
56-55-3	Benzo[a]anthracene	444		8.0	3.9
50-32-8	Benzo[a]pyrene	356		10	5.2
205-99-2	Benzo[b]fluoranthene	380		12	6.1
191-24-2	Benzo[g,h,i]perylene	508		20	4.4
207-08-9	Benzo[k]fluoranthene	357		8.0	3.6
218-01-9	Chrysene	380		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	502		20	4.1
206-44-0	Fluoranthene	432		20	4.0
86-73-7	Fluorene	445		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	467		20	7.1
90-12-0	1-Methylnaphthalene	439		40	4.4
91-57-6	2-Methylnaphthalene	435		40	7.1
91-20-3	Naphthalene	396		40	4.4
85-01-8	Phenanthrene	409		8.0	3.9
129-00-0	Pyrene	447		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	62		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06019.D  
 Lab Smp Id: lcs 660-137132/2-a  
 Inj Date : 06-MAY-2013 15:24  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : lcs 660-137132/2-a  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\A-BFASTPAHi-m.m  
 Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD  
 Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D  
 Als bottle: 19 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.920	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.544	2.544	(1.000)	1543432	40.0000	
* 6 Acenaphthene-d10	164		3.575	3.575	(1.000)	808163	40.0000	
* 10 Phenanthrene-d10	188		4.526	4.521	(1.000)	1393811	40.0000	
\$ 14 o-Terphenyl	230		4.819	4.820	(1.065)	124630	6.24760	418.7396
* 18 Chrysene-d12	240		6.540	6.535	(1.000)	1181721	40.0000	
* 23 Perylene-d12	264		7.629	7.630	(1.000)	1095540	40.0000	
2 Naphthalene	128		2.554	2.555	(1.004)	215005	5.91542	396.4758
3 2-Methylnaphthalene	141		2.960	2.961	(1.164)	119776	6.48425	434.6011
4 1-Methylnaphthalene	142		3.019	3.014	(1.187)	145109	6.55399	439.2757
5 Acenaphthylene	152		3.484	3.484	(0.975)	243385	6.40913	429.5660
7 Acenaphthene	154		3.591	3.591	(1.004)	121278	5.56111	372.7288
9 Fluorene	166		3.906	3.901	(1.093)	165022	6.63997	445.0379
11 Phenanthrene	178		4.536	4.537	(1.002)	210797	6.10465	409.1591
12 Anthracene	178		4.568	4.569	(1.009)	234725	6.38135	427.7041

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	4.702	4.702	(1.039)	211541	6.39634	428.7093
15 Fluoranthene	202	5.396	5.397	(1.192)	255953	6.44323	431.8515
16 Pyrene	202	5.562	5.562	(0.851)	253242	6.66689	446.8426
17 Benzo(a)anthracene	228	6.529	6.524	(0.998)	220126	6.62802	444.2369
19 Chrysene	228	6.556	6.551	(1.002)	211765	5.66706	379.8295
20 Benzo(b)fluoranthene	252	7.346	7.347	(0.963)	164092	5.66675	379.8092
21 Benzo(k)fluoranthene	252	7.368	7.368	(0.966)	191376	5.32731	357.0580
22 Benzo(a)pyrene	252	7.576	7.576	(0.993)	157930	5.31060	355.9381
24 Indeno(1,2,3-cd)pyrene	276	8.383	8.388	(1.099)	173770	6.97495	467.4900(M)
25 Dibenzo(a,h)anthracene	278	8.409	8.414	(1.102)	191298	7.49079	502.0638
26 Benzo(g,h,i)perylene	276	8.596	8.602	(1.127)	202899	7.57353	507.6095

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AE06019.D

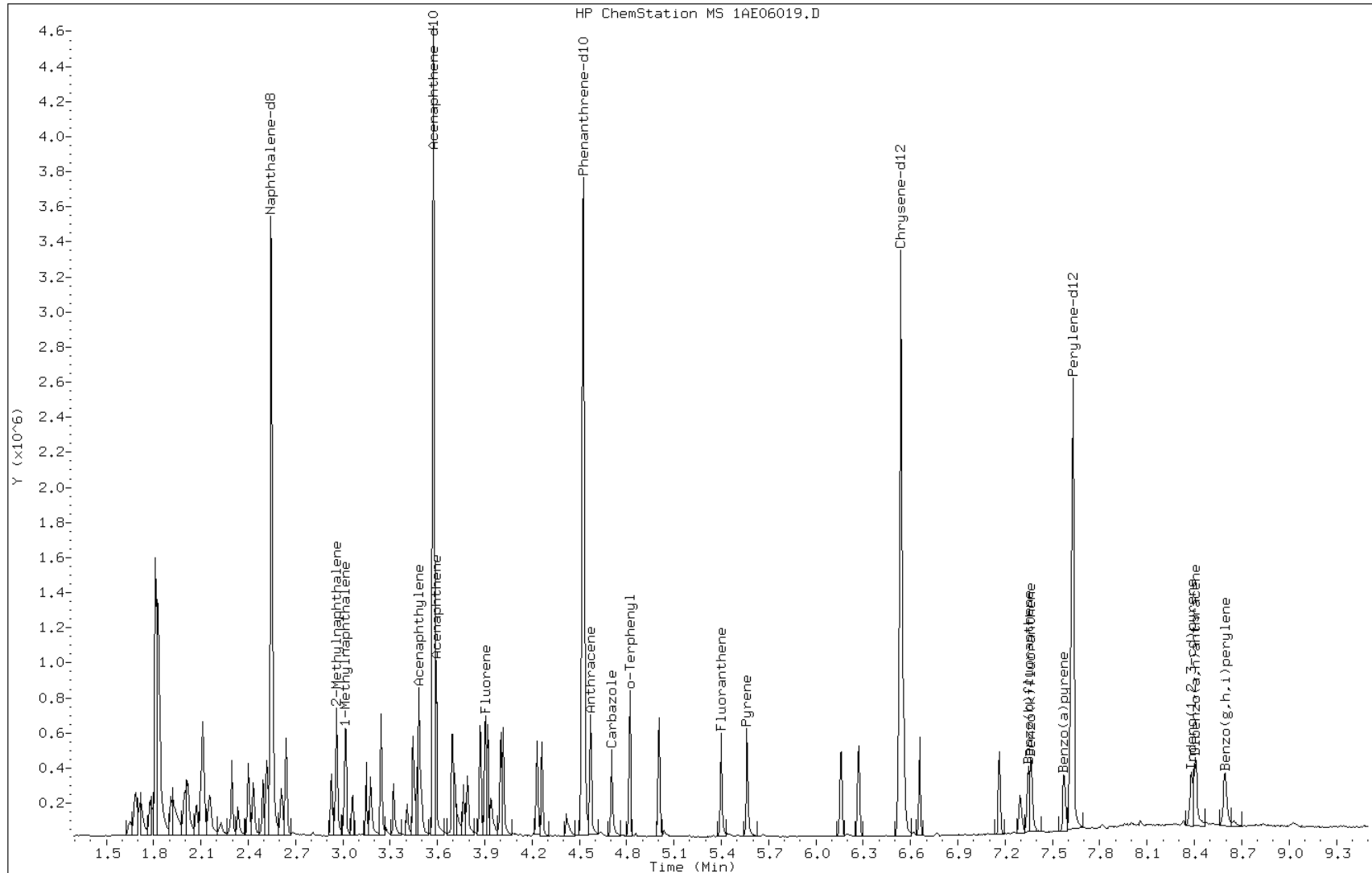
Date: 06-MAY-2013 15:24

Client ID:

Instrument: BSMA5973.i

Sample Info: lcs 660-137132/2-a

Operator: SCC

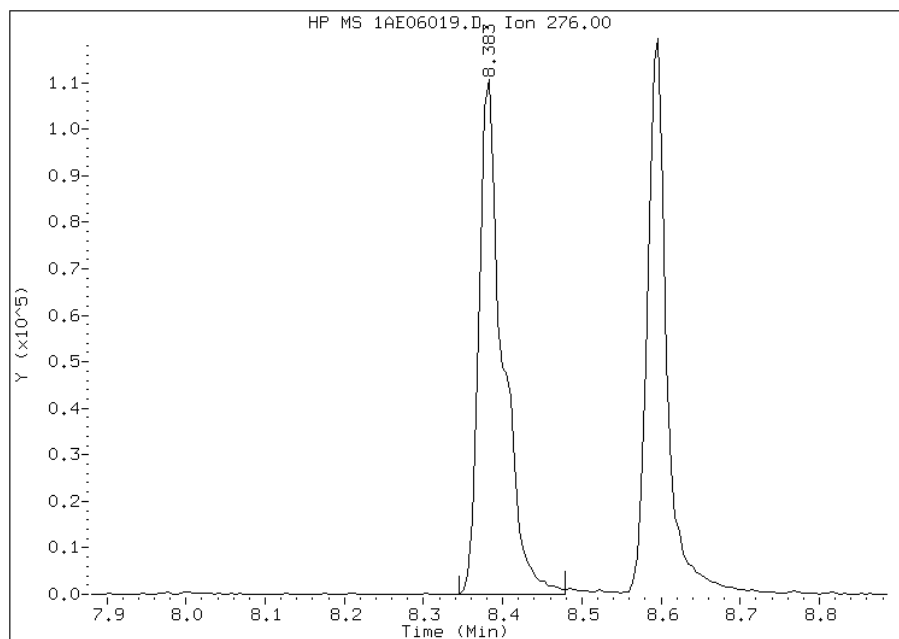


Manual Integration Report

Data File: 1AE06019.D  
Inj. Date and Time: 06-MAY-2013 15:24  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/06/2013

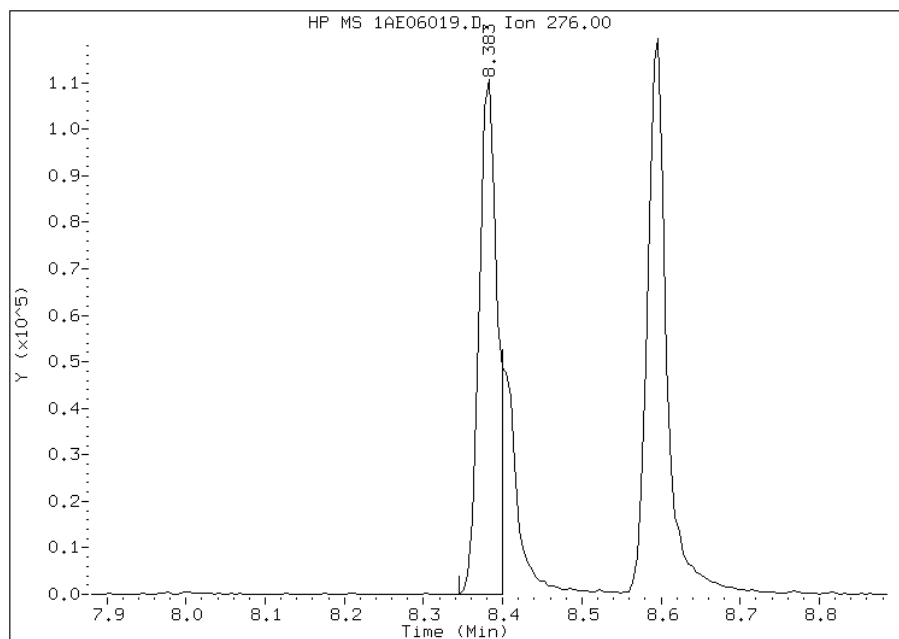
Processing Integration Results

RT: 8.38  
Response: 228531  
Amount: 9  
Conc: 615



Manual Integration Results

RT: 8.38  
Response: 173770  
Amount: 7  
Conc: 467



Manually Integrated By: cantins  
Modification Date: 06-May-2013 15:52  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: 680-89695-A-21-B MS  
 Matrix: Solid Lab File ID: 1AE01012.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/29/2013 14:27  
 Sample wt/vol: 14.93(g) Date Analyzed: 05/01/2013 15:47  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 17.7 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137001 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	550		490	98
208-96-8	Acenaphthylene	556		200	24
120-12-7	Anthracene	646		41	21
56-55-3	Benzo[a]anthracene	945		39	19
50-32-8	Benzo[a]pyrene	799		51	25
205-99-2	Benzo[b]fluoranthene	930		60	30
191-24-2	Benzo[g,h,i]perylene	889		98	21
207-08-9	Benzo[k]fluoranthene	709		39	18
218-01-9	Chrysene	842		44	22
53-70-3	Dibenz(a,h)anthracene	810		98	20
206-44-0	Fluoranthene	1110		98	20
86-73-7	Fluorene	599		98	20
193-39-5	Indeno[1,2,3-cd]pyrene	949		98	35
90-12-0	1-Methylnaphthalene	665		200	21
91-57-6	2-Methylnaphthalene	671		200	35
91-20-3	Naphthalene	677		200	21
85-01-8	Phenanthrene	916		39	19
129-00-0	Pyrene	1020		98	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	64		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01012.D  
 Lab Smp Id: 680-89695-a-21-b ms  
 Inj Date : 01-MAY-2013 15:47  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-89695-a-21-b ms  
 Misc Info : 4.0  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\a-bFASTPAHi-m.m  
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 9 QC Sample: MS  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.930	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.564	2.563	(1.000)	1455383	40.0000	
* 6 Acenaphthene-d10	164		3.590	3.594	(1.000)	751774	40.0000	
* 10 Phenanthrene-d10	188		4.546	4.544	(1.000)	1217471	40.0000	
\$ 14 o-Terphenyl	230		4.845	4.844	(1.066)	31933	1.60359	429.6283
* 18 Chrysene-d12	240		6.576	6.574	(1.000)	1045215	40.0000	
* 23 Perylene-d12	264		7.666	7.659	(1.000)	1361545	40.0000	
2 Naphthalene	128		2.575	2.573	(1.004)	75596	2.07786	556.6949
3 2-Methylnaphthalene	141		2.981	2.979	(1.162)	42985	2.06080	552.1241
4 1-Methylnaphthalene	142		3.034	3.033	(1.183)	47159	2.04069	546.7350
5 Acenaphthylene	152		3.504	3.503	(0.976)	75036	1.70786	457.5639
7 Acenaphthene	154		3.611	3.610	(1.006)	38883	1.68756	452.1249
9 Fluorene	166		3.926	3.925	(1.094)	50965	1.83847	492.5563
11 Phenanthrene	178		4.562	4.560	(1.004)	99238	2.81385	753.8779
12 Anthracene	178		4.594	4.593	(1.011)	72776	1.98457	531.7012

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.728	4.726	(1.040)	63691	1.80040	482.3566
15 Fluoranthene	202	5.427	5.426	(1.194)	139152	3.41603	915.2128(R)
16 Pyrene	202	5.593	5.592	(0.851)	125232	3.14056	841.4091
17 Benzo(a)anthracene	228	6.565	6.558	(0.998)	99103	2.90338	777.8648
19 Chrysene	228	6.592	6.590	(1.002)	89593	2.58720	693.1556
20 Benzo(b)fluoranthene	252	7.383	7.381	(0.963)	118051	2.85591	765.1465
21 Benzo(k)fluoranthene	252	7.404	7.402	(0.966)	103435	2.17640	583.0957
22 Benzo(a)pyrene	252	7.612	7.605	(0.993)	100946	2.45483	657.6894
24 Indeno(1,2,3-cd)pyrene	276	8.430	8.423	(1.100)	113156	2.91435	780.8038(M)
25 Dibenzo(a,h)anthracene	278	8.456	8.450	(1.103)	89828	2.48647	666.1666
26 Benzo(g,h,i)perylene	276	8.649	8.642	(1.128)	118572	2.72861	731.0420

QC Flag Legend

R - Spike/Surrogate failed recovery limits.  
 M - Compound response manually integrated.



Data File: 1AE01012.D

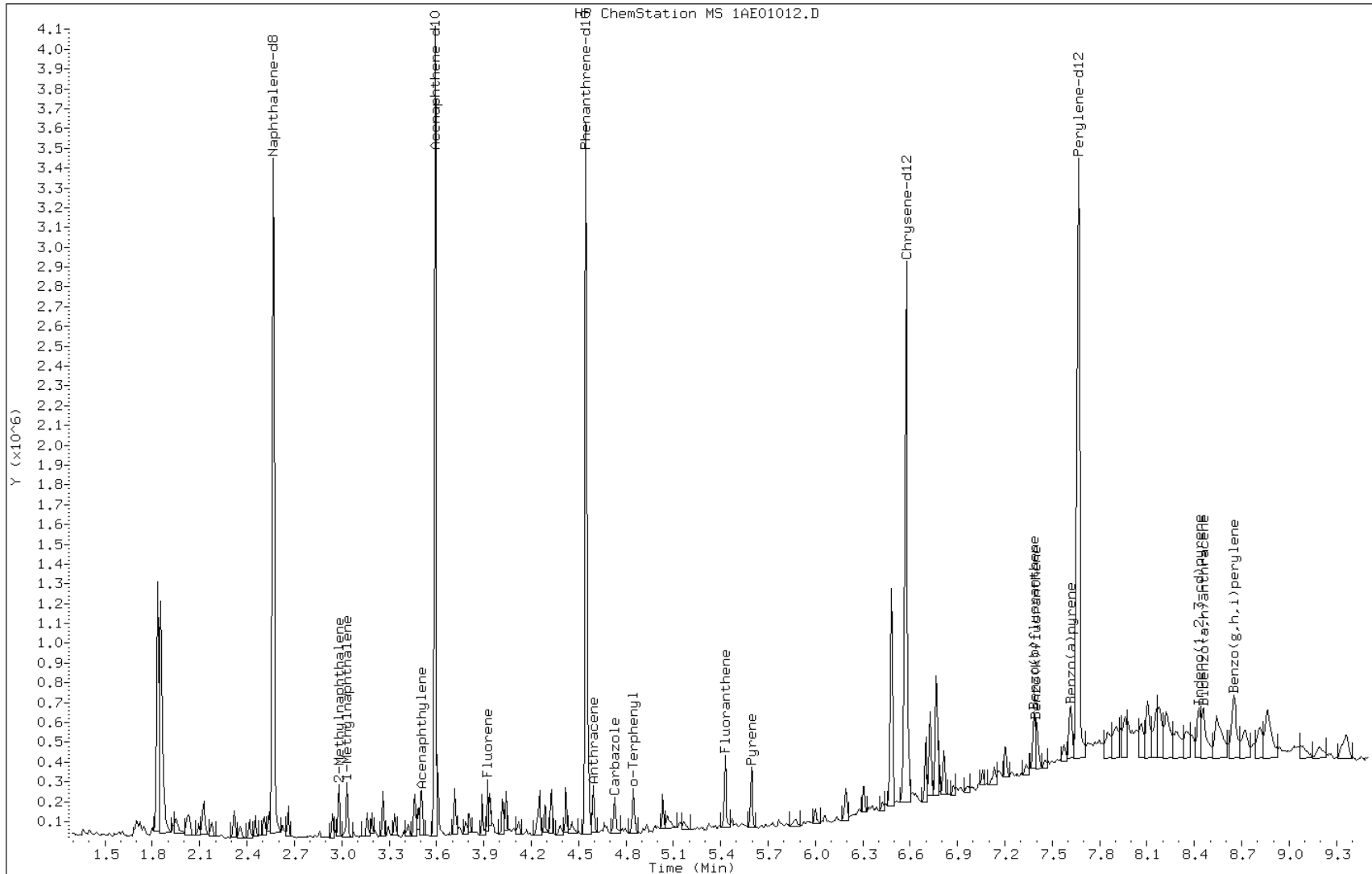
Date: 01-MAY-2013 15:47

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-89695-a-21-b ms

Operator: SCC

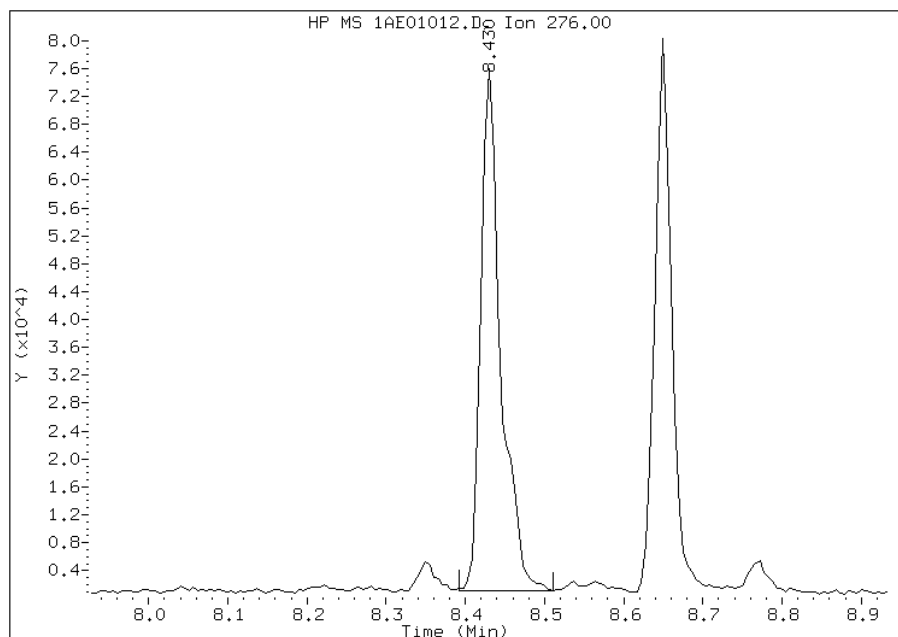


# Manual Integration Report

Data File: 1AE01012.D  
Inj. Date and Time: 01-MAY-2013 15:47  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/01/2013

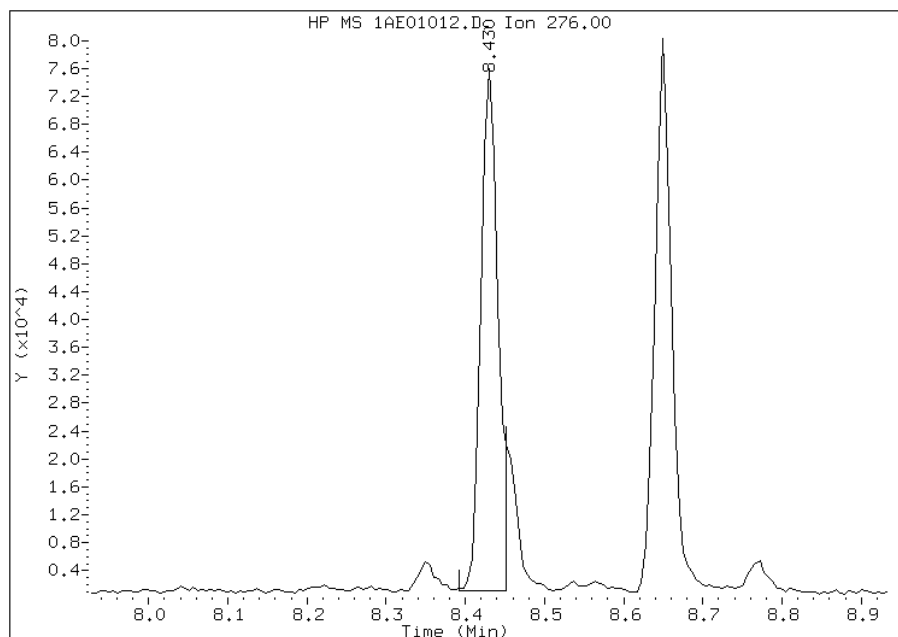
## Processing Integration Results

RT: 8.43  
Response: 129996  
Amount: 3  
Conc: 897



## Manual Integration Results

RT: 8.43  
Response: 113156  
Amount: 3  
Conc: 781



Manually Integrated By: cantins  
Modification Date: 01-May-2013 16:00  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: 680-89791-A-22-B MS  
 Matrix: Solid Lab File ID: 1AE02018.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/30/2013 14:42  
 Sample wt/vol: 15.01(g) Date Analyzed: 05/02/2013 19:27  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 15.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137070 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	358	J	470	94
208-96-8	Acenaphthylene	342		190	24
120-12-7	Anthracene	418		39	20
56-55-3	Benzo[a]anthracene	509		38	18
50-32-8	Benzo[a]pyrene	382		49	24
205-99-2	Benzo[b]fluoranthene	447		57	29
191-24-2	Benzo[g,h,i]perylene	398		94	21
207-08-9	Benzo[k]fluoranthene	409		38	17
218-01-9	Chrysene	437		42	21
53-70-3	Dibenz(a,h)anthracene	488		94	19
206-44-0	Fluoranthene	404		94	19
86-73-7	Fluorene	404		94	19
193-39-5	Indeno[1,2,3-cd]pyrene	443		94	33
90-12-0	1-Methylnaphthalene	393		190	21
91-57-6	2-Methylnaphthalene	382		190	33
91-20-3	Naphthalene	356		190	21
85-01-8	Phenanthrene	424		38	18
129-00-0	Pyrene	427		94	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	55		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02018.D  
 Lab Smp Id: 680-89791-a-22-b ms  
 Inj Date : 02-MAY-2013 19:27  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-89791-a-22-b ms  
 Misc Info : 4.0  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\a-bFASTPAHi-m.m  
 Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 15 QC Sample: MS  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.010	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.553	2.550	(1.000)	1232986	40.0000	
* 6 Acenaphthene-d10	164		3.584	3.581	(1.000)	663075	40.0000	
* 10 Phenanthrene-d10	188		4.535	4.532	(1.000)	966784	40.0000	
\$ 14 o-Terphenyl	230		4.834	4.831	(1.066)	21842	1.38126	368.0898
* 18 Chrysene-d12	240		6.560	6.551	(1.000)	761987	40.0000	
* 23 Perylene-d12	264		7.650	7.641	(1.000)	887669	40.0000	
2 Naphthalene	128		2.564	2.560	(1.004)	34967	1.13448	302.3257
3 2-Methylnaphthalene	141		2.975	2.972	(1.165)	21561	1.22013	325.1523
4 1-Methylnaphthalene	142		3.029	3.025	(1.186)	24528	1.25283	333.8664
5 Acenaphthylene	152		3.494	3.490	(0.975)	42328	1.09228	291.0808
7 Acenaphthene	154		3.600	3.597	(1.004)	23221	1.14263	304.4972
9 Fluorene	166		3.916	3.912	(1.092)	31501	1.28835	343.3301
11 Phenanthrene	178		4.551	4.548	(1.004)	37893	1.35304	360.5706
12 Anthracene	178		4.583	4.580	(1.011)	38793	1.33218	355.0104

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.717	4.713	(1.040)	36480	1.29860	346.0615
15 Fluoranthene	202	5.417	5.413	(1.194)	41683	1.28861	343.3996
16 Pyrene	202	5.582	5.579	(0.851)	39626	1.36311	363.2531
17 Benzo(a)anthracene	228	6.549	6.540	(0.998)	40402	1.62360	432.6706
19 Chrysene	228	6.576	6.572	(1.002)	35227	1.39537	371.8515
20 Benzo(b)fluoranthene	252	7.367	7.363	(0.963)	38453	1.42688	380.2465
21 Benzo(k)fluoranthene	252	7.388	7.384	(0.966)	40435	1.30500	347.7682
22 Benzo(a)pyrene	252	7.596	7.593	(0.993)	32678	1.21890	324.8234(R)
24 Indeno(1,2,3-cd)pyrene	276	8.403	8.405	(1.098)	35773	1.41319	376.5995(M)
25 Dibenzo(a,h)anthracene	278	8.430	8.431	(1.102)	36648	1.55597	414.6498
26 Benzo(g,h,i)perylene	276	8.622	8.624	(1.127)	35940	1.26858	338.0635

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: 1AE02018.D

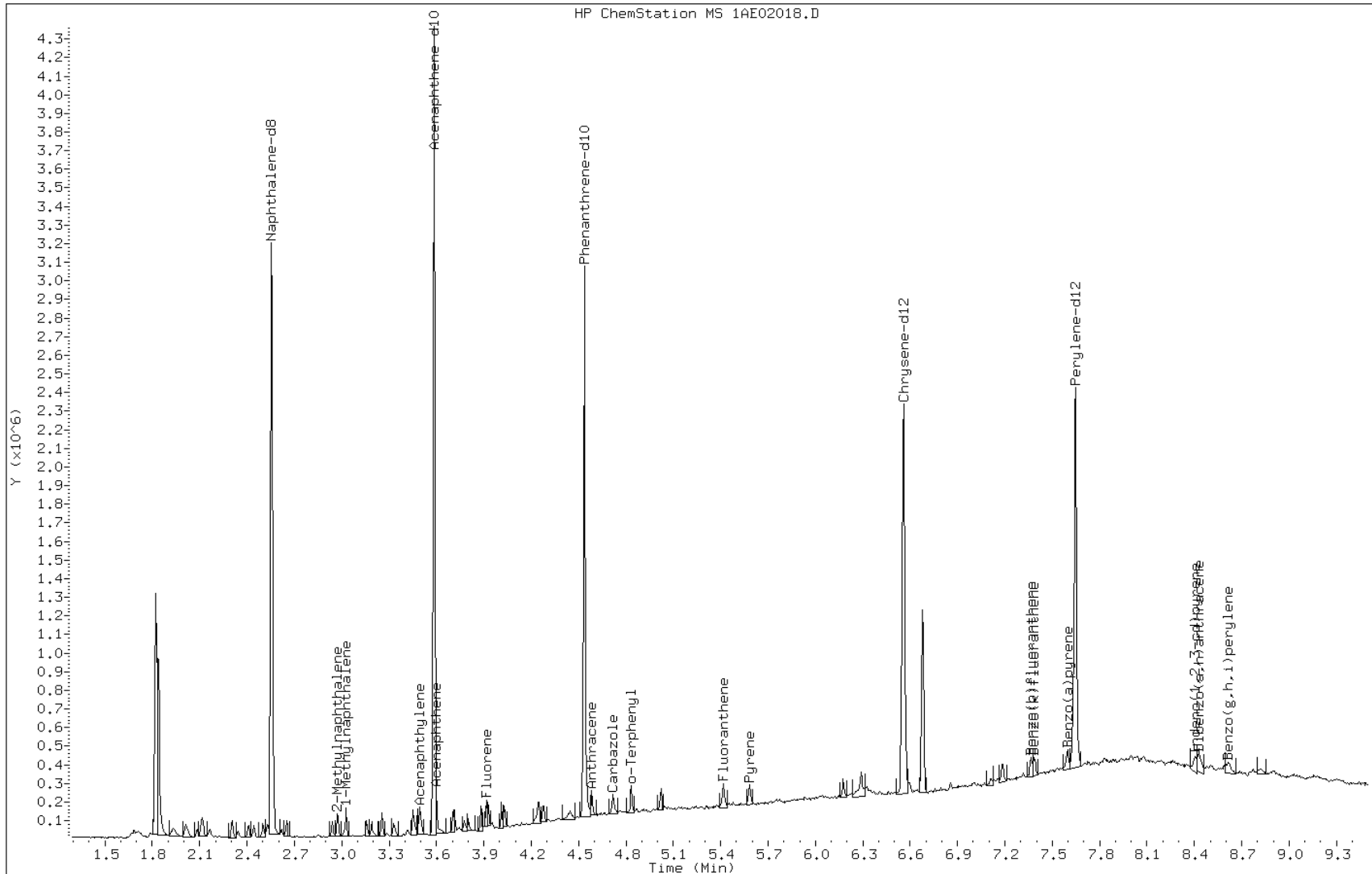
Date: 02-MAY-2013 19:27

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-89791-a-22-b ms

Operator: SCC

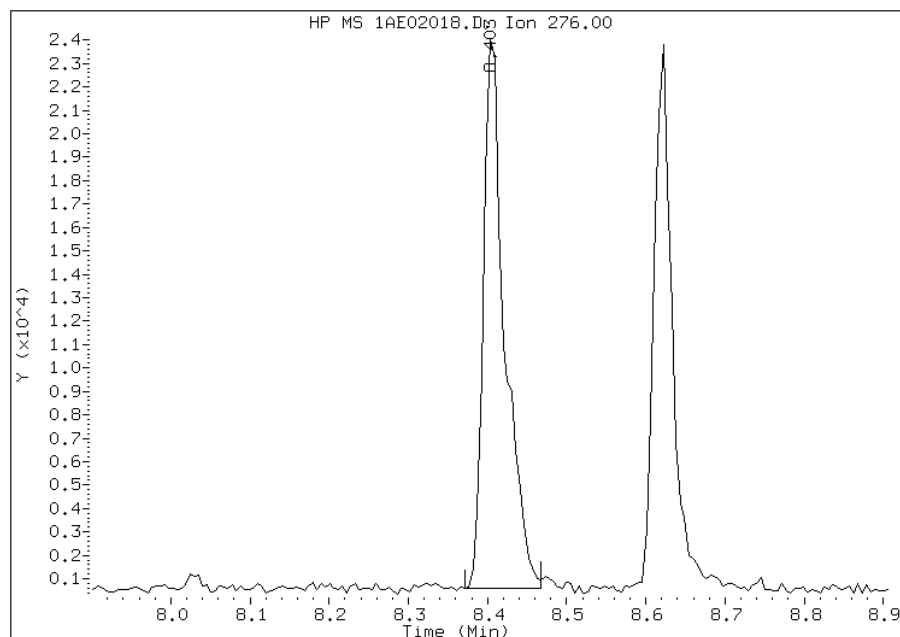


# Manual Integration Report

Data File: 1AE02018.D  
Inj. Date and Time: 02-MAY-2013 19:27  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/03/2013

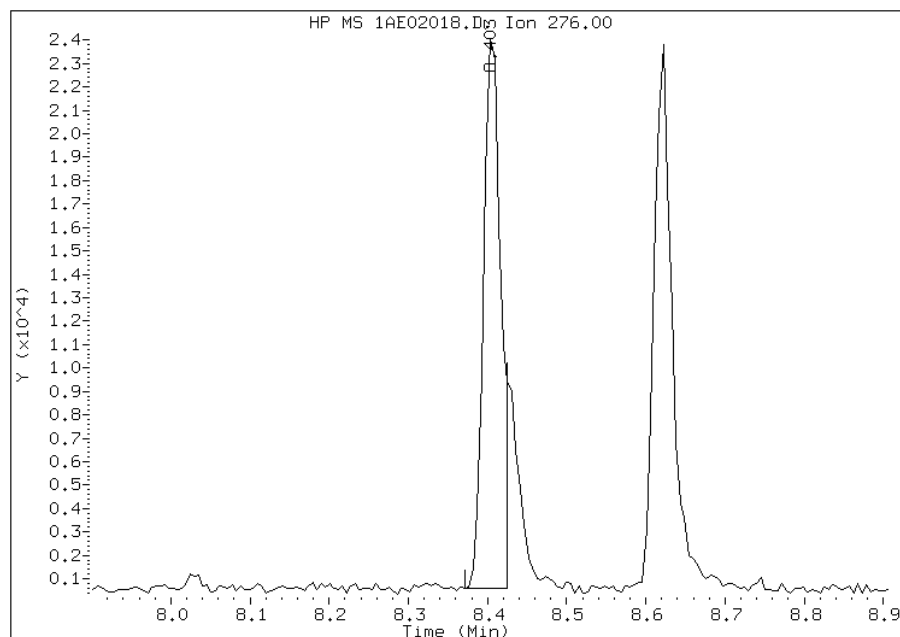
## Processing Integration Results

RT: 8.40  
Response: 43478  
Amount: 2  
Conc: 458



## Manual Integration Results

RT: 8.40  
Response: 35773  
Amount: 1  
Conc: 377



Manually Integrated By: cantins  
Modification Date: 03-May-2013 10:47  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: 680-89985-A-3-B MS  
 Matrix: Solid Lab File ID: 1AE06025.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 05/06/2013 08:14  
 Sample wt/vol: 15.20(g) Date Analyzed: 05/06/2013 16:56  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 26.6 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137156 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	477		130	27
208-96-8	Acenaphthylene	544		54	6.7
120-12-7	Anthracene	595		11	5.6
56-55-3	Benzo[a]anthracene	795		11	5.2
50-32-8	Benzo[a]pyrene	661		14	7.0
205-99-2	Benzo[b]fluoranthene	963		16	8.2
191-24-2	Benzo[g,h,i]perylene	743		27	5.9
207-08-9	Benzo[k]fluoranthene	626		11	4.8
218-01-9	Chrysene	913		12	6.1
53-70-3	Dibenz(a,h)anthracene	628		27	5.5
206-44-0	Fluoranthene	1250		27	5.4
86-73-7	Fluorene	531		27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	751		27	9.5
90-12-0	1-Methylnaphthalene	722		54	5.9
91-57-6	2-Methylnaphthalene	739		54	9.5
91-20-3	Naphthalene	879		54	5.9
85-01-8	Phenanthrene	1460		11	5.2
129-00-0	Pyrene	1170		27	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	49		30-130



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06025.D  
 Lab Smp Id: 680-89985-a-3-b ms  
 Inj Date : 06-MAY-2013 16:56  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-89985-a-3-b ms  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m  
 Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD  
 Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D  
 Als bottle: 25 QC Sample: MS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.200	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL	ON-COLUMN	FINAL	
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136	2.546	2.544	(1.000)	1074078	40.0000	
* 6 Acenaphthene-d10	164	3.571	3.575	(1.000)	539450	40.0000	
* 10 Phenanthrene-d10	188	4.522	4.521	(1.000)	802754	40.0000	
\$ 14 o-Terphenyl	230	4.821	4.820	(1.066)	56829	4.94631	325.4154
* 18 Chrysene-d12	240	6.542	6.535	(1.000)	668390	40.0000	
* 23 Perylene-d12	264	7.631	7.630	(1.000)	856623	40.0000	
2 Naphthalene	128	2.556	2.555	(1.004)	248104	9.80895	645.3255
3 2-Methylnaphthalene	141	2.962	2.961	(1.164)	105985	8.24491	542.4284
4 1-Methylnaphthalene	142	3.016	3.014	(1.185)	124143	8.05723	530.0807
5 Acenaphthylene	152	3.486	3.484	(0.976)	153865	6.07005	399.3456
7 Acenaphthene	154	3.593	3.591	(1.006)	77511	5.32465	350.3057
9 Fluorene	166	3.903	3.901	(1.093)	98228	5.92116	389.5502
11 Phenanthrene	178	4.538	4.537	(1.004)	323427	16.2628	1069.9185(R)
12 Anthracene	178	4.570	4.569	(1.011)	140543	6.63412	436.4554

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	4.704	4.702	(1.040)	115311	6.05382	398.2775
15 Fluoranthene	202	5.404	5.397	(1.195)	319180	13.9508	917.8180(R)
16 Pyrene	202	5.564	5.562	(0.851)	280833	13.0714	859.9579(R)
17 Benzo(a)anthracene	228	6.531	6.524	(0.998)	166647	8.87145	583.6481
19 Chrysene	228	6.558	6.551	(1.002)	215332	10.1882	670.2756
20 Benzo(b)fluoranthene	252	7.354	7.347	(0.964)	243337	10.7472	707.0499
21 Benzo(k)fluoranthene	252	7.370	7.368	(0.966)	196033	6.97891	459.1391
22 Benzo(a)pyrene	252	7.578	7.576	(0.993)	171493	7.37503	485.1991
24 Indeno(1,2,3-cd)pyrene	276	8.395	8.388	(1.100)	163206	8.37801	551.1850(M)
25 Dibenzo(a,h)anthracene	278	8.417	8.414	(1.103)	139822	7.00215	460.6677
26 Benzo(g,h,i)perylene	276	8.614	8.602	(1.129)	173545	8.28456	545.0366

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: 1AE06025.D

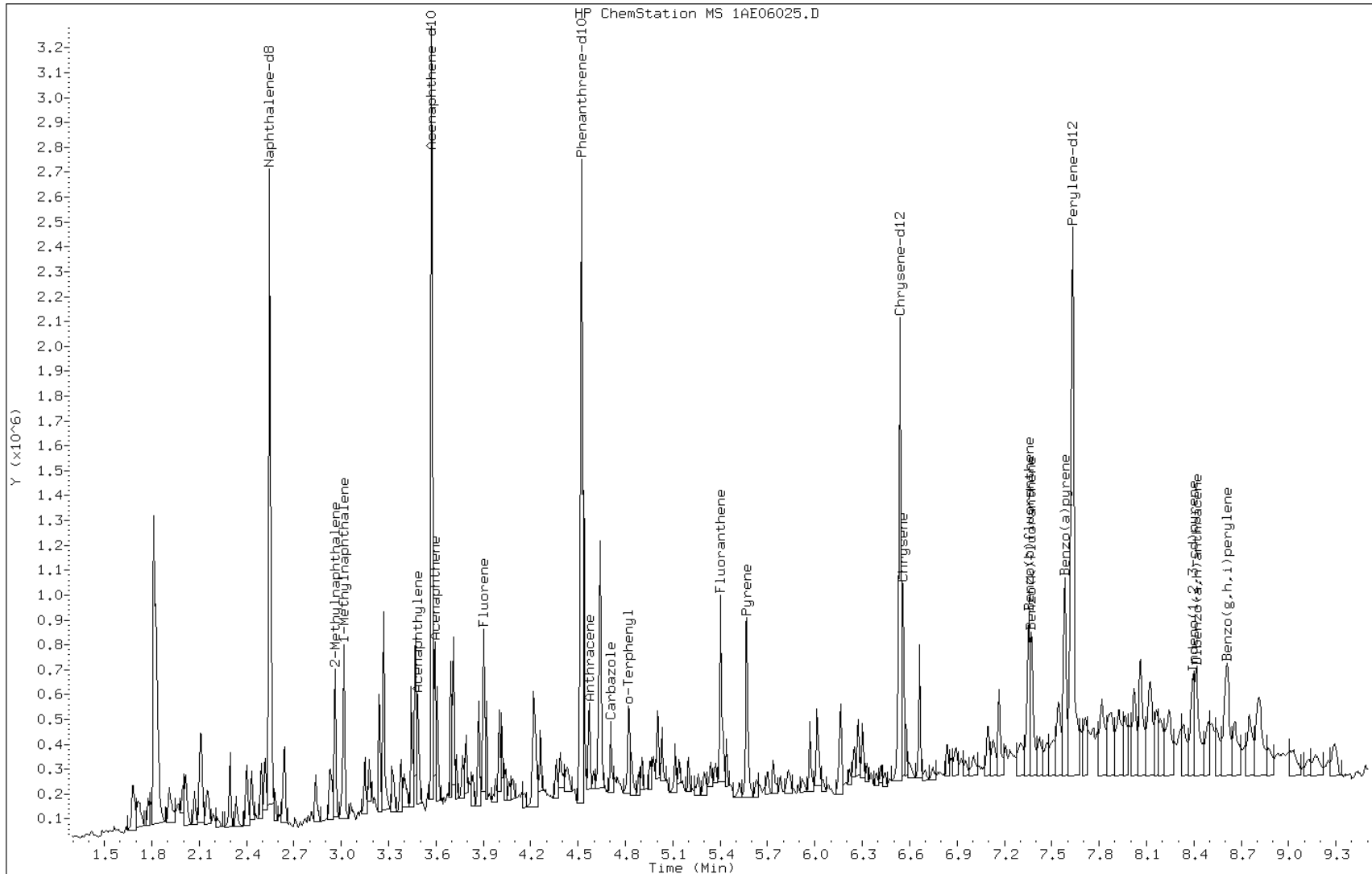
Date: 06-MAY-2013 16:56

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-89985-a-3-b ms

Operator: SCC

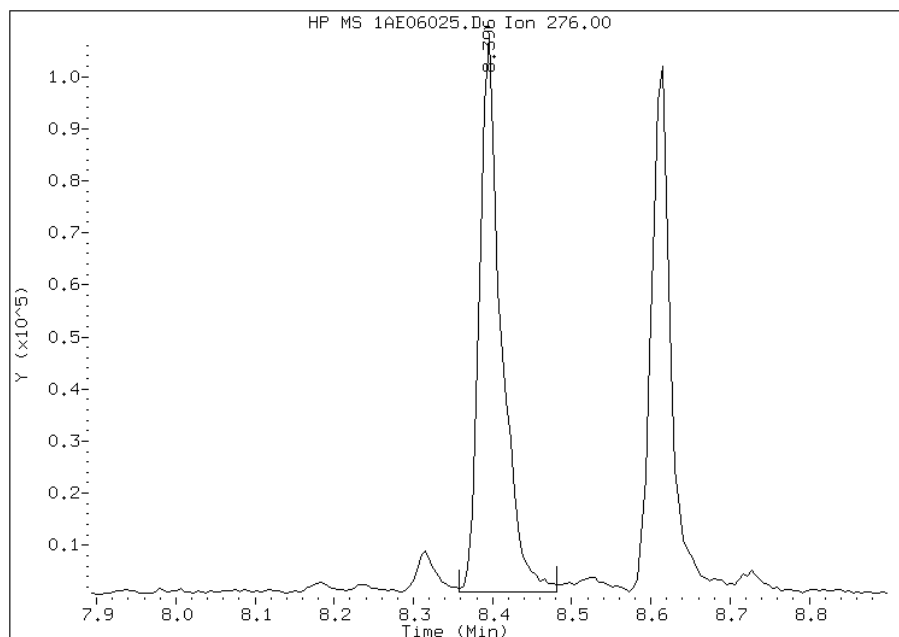


# Manual Integration Report

Data File: 1AE06025.D  
Inj. Date and Time: 06-MAY-2013 16:56  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/07/2013

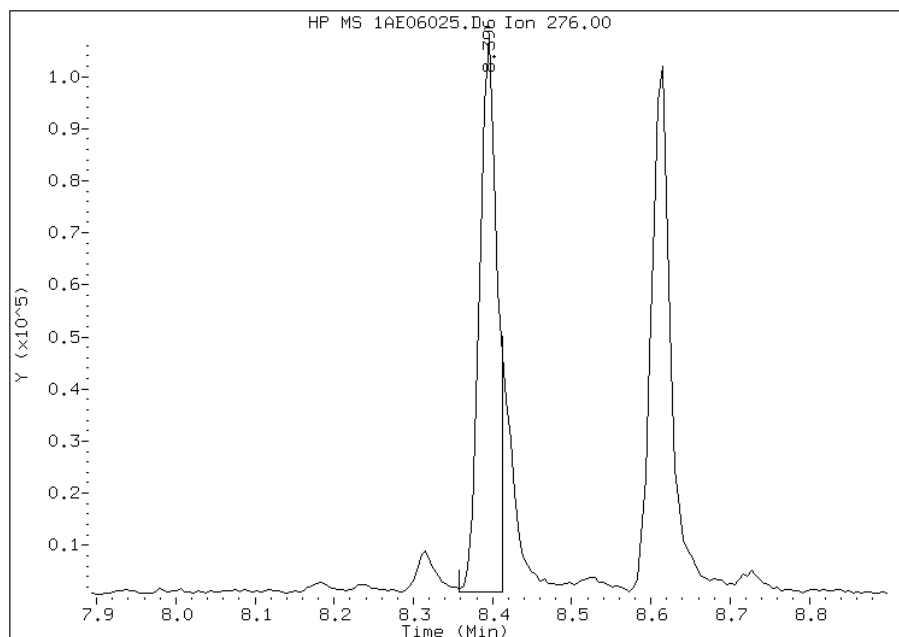
## Processing Integration Results

RT: 8.40  
Response: 202410  
Amount: 10  
Conc: 684



## Manual Integration Results

RT: 8.40  
Response: 163206  
Amount: 8  
Conc: 551



Manually Integrated By: cantins  
Modification Date: 07-May-2013 13:56  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: HP0200B-CS-SP MS Lab Sample ID: 680-89791-2 MS  
 Matrix: Solid Lab File ID: 1AD30021.D  
 Analysis Method: 8270C LL Date Collected: 04/24/2013 10:30  
 Extract. Method: 3546 Date Extracted: 04/30/2013 09:33  
 Sample wt/vol: 15.00(g) Date Analyzed: 04/30/2013 16:27  
 Con. Extract Vol.: 10(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 15.9 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136977 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	1200	U	1200	240
208-96-8	Acenaphthylene	163	J	480	59
120-12-7	Anthracene	164		100	50
56-55-3	Benzo[a]anthracene	238		95	46
50-32-8	Benzo[a]pyrene	148		120	62
205-99-2	Benzo[b]fluoranthene	182		150	73
191-24-2	Benzo[g,h,i]perylene	197	J	240	52
207-08-9	Benzo[k]fluoranthene	198		95	43
218-01-9	Chrysene	259		110	54
53-70-3	Dibenz(a,h)anthracene	166	J	240	49
206-44-0	Fluoranthene	240		240	48
86-73-7	Fluorene	341		240	49
193-39-5	Indeno[1,2,3-cd]pyrene	155	J	240	84
90-12-0	1-Methylnaphthalene	169	J	480	52
91-57-6	2-Methylnaphthalene	281	J	480	84
91-20-3	Naphthalene	1580		480	52
85-01-8	Phenanthrene	389		95	46
129-00-0	Pyrene	186	J	240	44

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	20	X	30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A043013.b\1AD30021.D  
 Lab Smp Id: 680-89791-c-2-b ms  
 Inj Date : 30-APR-2013 16:27  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-89791-c-2-b ms  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A043013.b\a-bFASTPAHi-m.m  
 Meth Date : 30-Apr-2013 11:48 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 20 QC Sample: MS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL	ON-COLUMN	FINAL	
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136	2.577	2.568	(1.000)	1374212	40.0000	
* 6 Acenaphthene-d10	164	3.602	3.599	(1.000)	787595	40.0000	
* 10 Phenanthrene-d10	188	4.559	4.550	(1.000)	1350068	40.0000	
\$ 14 o-Terphenyl	230	4.852	4.854	(1.064)	4406	0.19953	13.3017(R)
* 18 Chrysene-d12	240	6.589	6.574	(1.000)	1627912	40.0000	
* 23 Perylene-d12	264	7.684	7.659	(1.000)	1608005	40.0000	
2 Naphthalene	128	2.603	2.578	(1.010)	68302	1.98827	132.5513(RM)
3 2-Methylnaphthalene	141	2.988	2.984	(1.160)	6976	0.35420	23.6133(R)
4 1-Methylnaphthalene	142	3.047	3.043	(1.182)	4651	0.21315	14.2098(R)
5 Acenaphthylene	152	3.517	3.513	(0.976)	9482	0.20600	13.7333(R)
7 Acenaphthene	154	3.618	3.620	(1.004)	4495	0.18621	12.4142(aR)
9 Fluorene	166	3.939	3.930	(1.093)	12505	0.43058	28.7051(R)
11 Phenanthrene	178	4.569	4.566	(1.002)	19208	0.49114	32.7428(R)
12 Anthracene	178	4.601	4.603	(1.009)	8396	0.20647	13.7645(R)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.735	4.731	(1.039)	6618	0.16870	11.2467(R)
15 Fluoranthene	202	5.440	5.431	(1.193)	13680	0.30285	20.1897(R)
16 Pyrene	202	5.606	5.597	(0.851)	14589	0.23490	15.6603(R)
17 Benzo(a)anthracene	228	6.578	6.558	(0.998)	15977	0.30053	20.0352(R)
19 Chrysene	228	6.599	6.590	(1.002)	17638	0.32702	21.8016(R)
20 Benzo(b)fluoranthene	252	7.390	7.381	(0.962)	11204	0.22951	15.3003(RH)
21 Benzo(k)fluoranthene	252	7.411	7.402	(0.965)	13990	0.24925	16.6166(R)
22 Benzo(a)pyrene	252	7.625	7.611	(0.992)	9074	0.18684	12.4561(R)
24 Indeno(1,2,3-cd)pyrene	276	8.442	8.423	(1.099)	8956	0.19531	13.0206(RM)
25 Dibenzo(a,h)anthracene	278	8.464	8.449	(1.101)	8957	0.20993	13.9954(R)
26 Benzo(g,h,i)perylene	276	8.661	8.647	(1.127)	12733	0.24810	16.5403(R)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File: 1AD30021.D

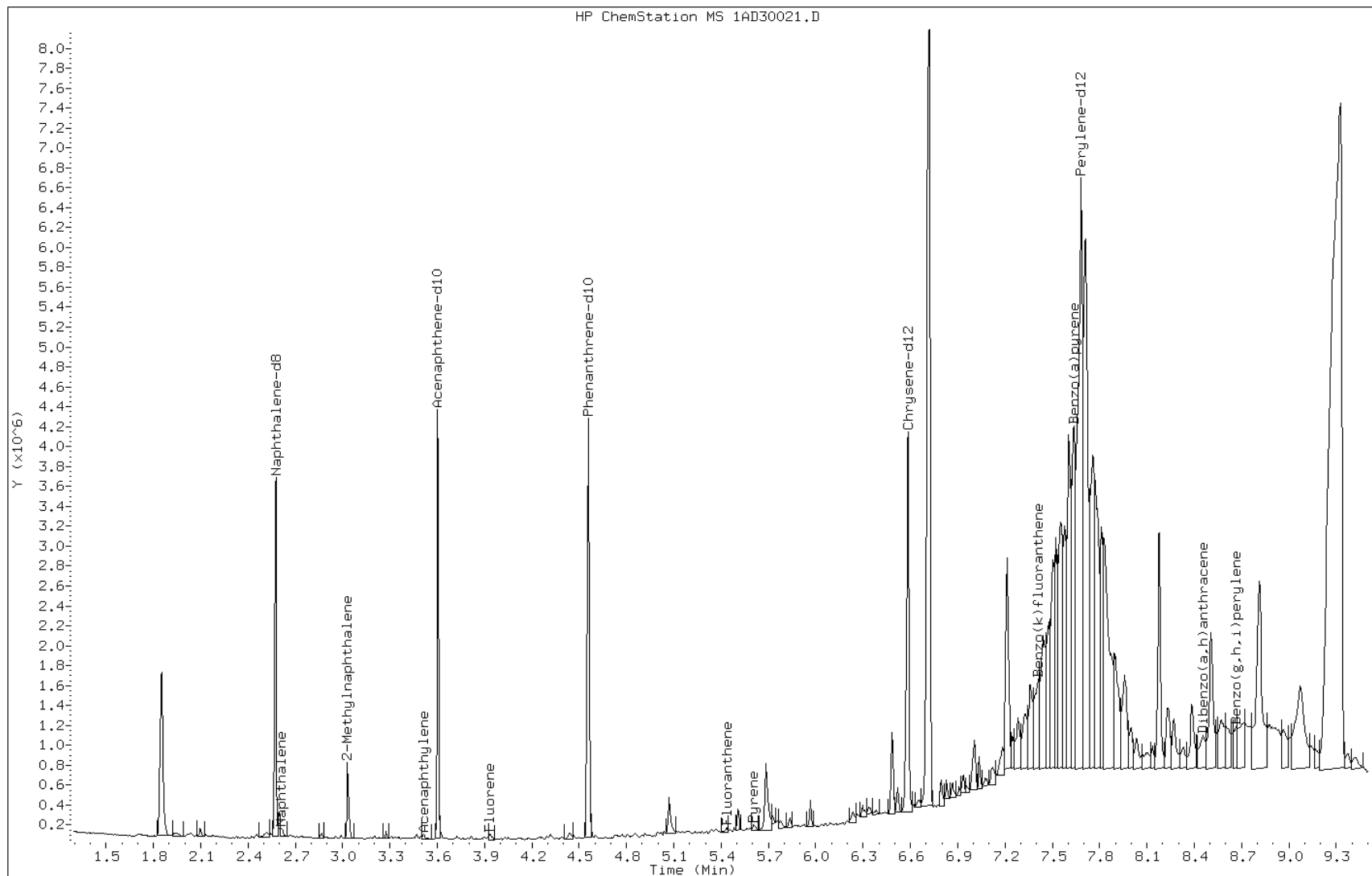
Date: 30-APR-2013 16:27

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-89791-c-2-b ms

Operator: SCC



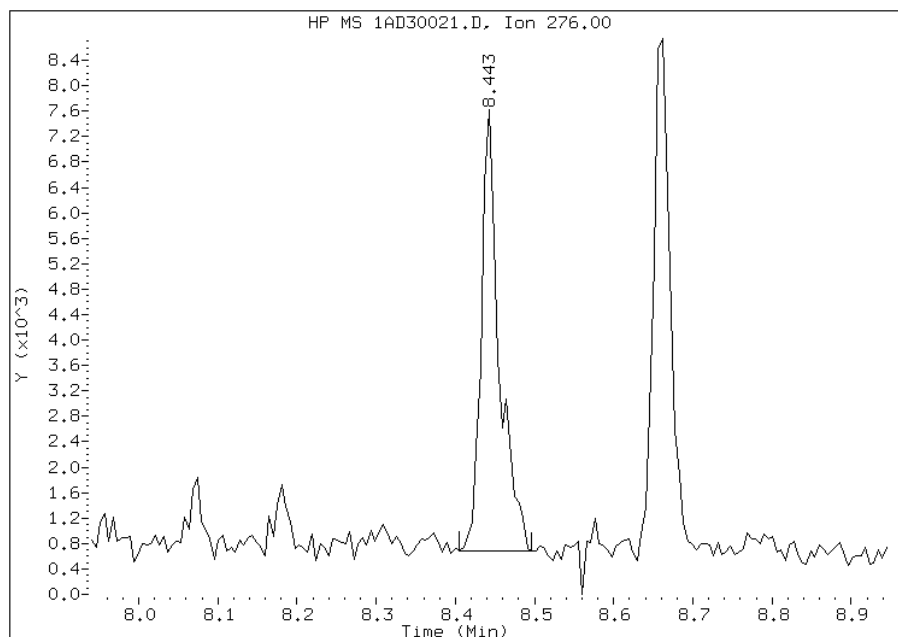


# Manual Integration Report

Data File: 1AD30021.D  
Inj. Date and Time: 30-APR-2013 16:27  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/30/2013

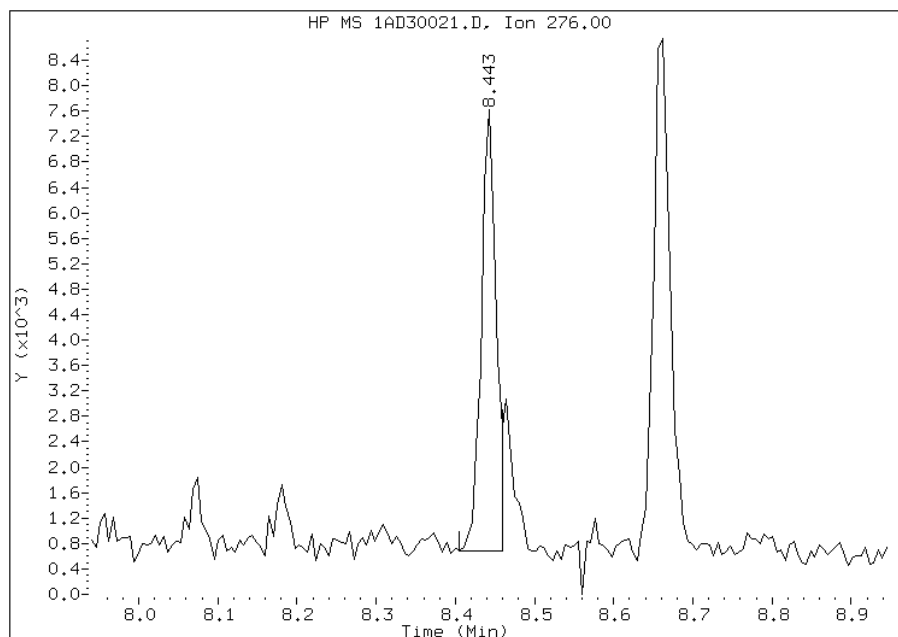
## Processing Integration Results

RT: 8.44  
Response: 10905  
Amount: 0  
Conc: 16



## Manual Integration Results

RT: 8.44  
Response: 8956  
Amount: 0  
Conc: 13



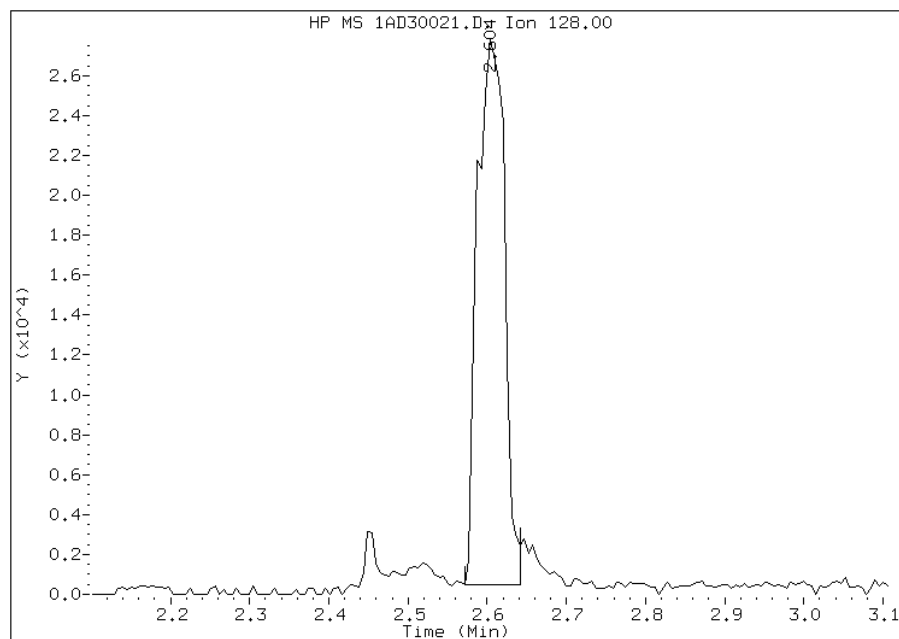
Manually Integrated By: cantins  
Modification Date: 30-Apr-2013 16:39  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AD30021.D  
Inj. Date and Time: 30-APR-2013 16:27  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 2 Naphthalene  
CAS #: 91-20-3  
Report Date: 04/30/2013

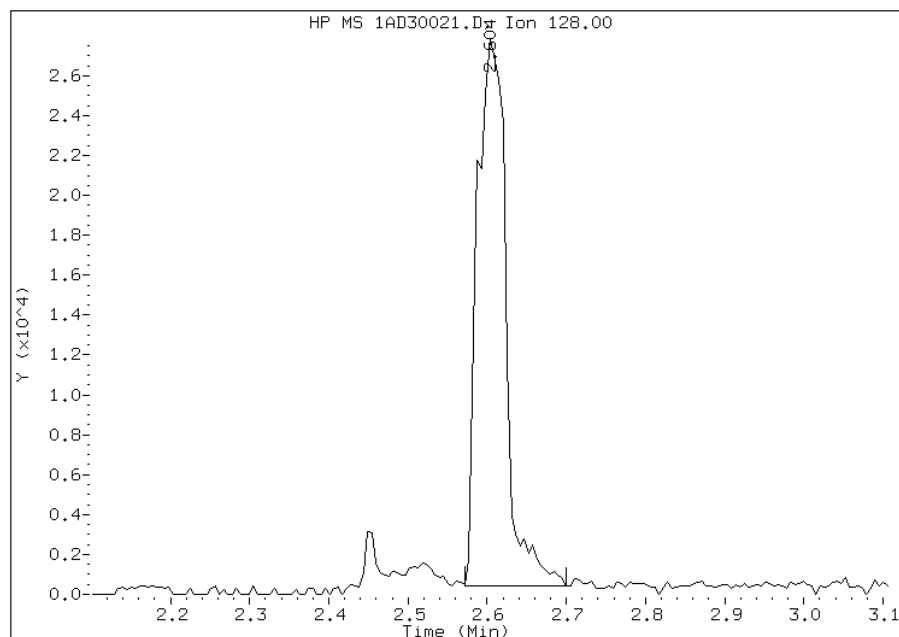
## Processing Integration Results

RT: 2.60  
Response: 64698  
Amount: 2  
Conc: 126



## Manual Integration Results

RT: 2.60  
Response: 68302  
Amount: 2  
Conc: 133



Manually Integrated By: cantins  
Modification Date: 30-Apr-2013 16:39  
Manual Integration Reason: Baseline Event

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: 680-89695-A-21-C MSD  
 Matrix: Solid Lab File ID: 1AE01013.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/29/2013 14:27  
 Sample wt/vol: 15.13(g) Date Analyzed: 05/01/2013 16:02  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 17.7 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137001 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	423	J	480	96
208-96-8	Acenaphthylene	419		190	24
120-12-7	Anthracene	472		40	20
56-55-3	Benzo[a]anthracene	673		39	19
50-32-8	Benzo[a]pyrene	591		50	25
205-99-2	Benzo[b]fluoranthene	672		59	29
191-24-2	Benzo[g,h,i]perylene	649		96	21
207-08-9	Benzo[k]fluoranthene	518		39	17
218-01-9	Chrysene	574		43	22
53-70-3	Dibenz(a,h)anthracene	635		96	20
206-44-0	Fluoranthene	723		96	19
86-73-7	Fluorene	431		96	20
193-39-5	Indeno[1,2,3-cd]pyrene	650		96	34
90-12-0	1-Methylnaphthalene	502		190	21
91-57-6	2-Methylnaphthalene	503		190	34
91-20-3	Naphthalene	476		190	21
85-01-8	Phenanthrene	616		39	19
129-00-0	Pyrene	651		96	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	62		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01013.D  
 Lab Smp Id: 680-89695-a-21-c ms  
 Inj Date : 01-MAY-2013 16:02  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-89695-a-21-c msd  
 Misc Info : 4.0  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\a-bFASTPAHi-m.m  
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 10 QC Sample: MSD  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.130	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.564	2.563	(1.000)	1519033	40.0000	
* 6 Acenaphthene-d10	164		3.595	3.594	(1.000)	797282	40.0000	
* 10 Phenanthrene-d10	188		4.546	4.544	(1.000)	1302080	40.0000	
\$ 14 o-Terphenyl	230		4.845	4.844	(1.066)	33094	1.55390	410.8131
* 18 Chrysene-d12	240		6.576	6.574	(1.000)	1160479	40.0000	
* 23 Perylene-d12	264		7.671	7.659	(1.000)	1432756	40.0000	
2 Naphthalene	128		2.575	2.573	(1.004)	56280	1.48212	391.8353
3 2-Methylnaphthalene	141		2.981	2.979	(1.162)	34074	1.56514	413.7841
4 1-Methylnaphthalene	142		3.034	3.033	(1.183)	37645	1.56074	412.6203
5 Acenaphthylene	152		3.504	3.503	(0.975)	60715	1.30303	344.4882
7 Acenaphthene	154		3.611	3.610	(1.004)	32170	1.31651	348.0534
9 Fluorene	166		3.921	3.925	(1.091)	39445	1.34169	354.7088
11 Phenanthrene	178		4.562	4.560	(1.004)	72366	1.91857	507.2235
12 Anthracene	178		4.594	4.593	(1.011)	57639	1.46966	388.5418

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.728	4.726	(1.040)	53895	1.42449	376.6001
15 Fluoranthene	202	5.428	5.426	(1.194)	98023	2.24999	594.8431
16 Pyrene	202	5.593	5.592	(0.851)	89692	2.02588	535.5929
17 Benzo(a)anthracene	228	6.566	6.558	(0.998)	79421	2.09566	554.0410
19 Chrysene	228	6.592	6.590	(1.002)	68639	1.78524	471.9727
20 Benzo(b)fluoranthene	252	7.383	7.381	(0.962)	90971	2.09140	552.9152
21 Benzo(k)fluoranthene	252	7.404	7.402	(0.965)	80681	1.61326	426.5051
22 Benzo(a)pyrene	252	7.613	7.605	(0.992)	79571	1.83885	486.1465
24 Indeno(1,2,3-cd)pyrene	276	8.435	8.423	(1.100)	82708	2.02428	535.1709(M)
25 Dibenzo(a,h)anthracene	278	8.462	8.450	(1.103)	75184	1.97768	522.8501
26 Benzo(g,h,i)perylene	276	8.654	8.642	(1.128)	92375	2.02011	534.0664

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AE01013.D

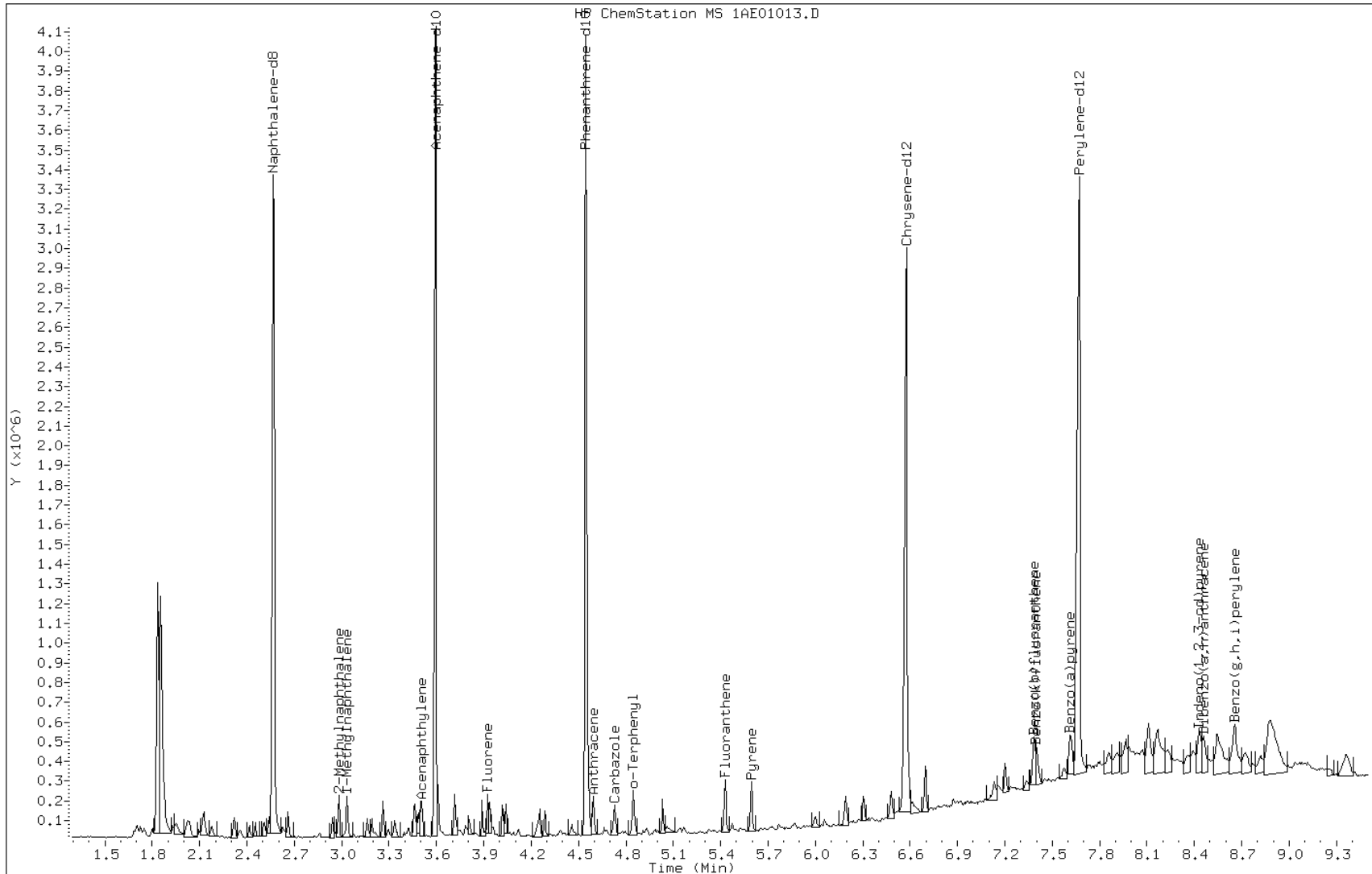
Date: 01-MAY-2013 16:02

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-89695-a-21-c msd

Operator: SCC

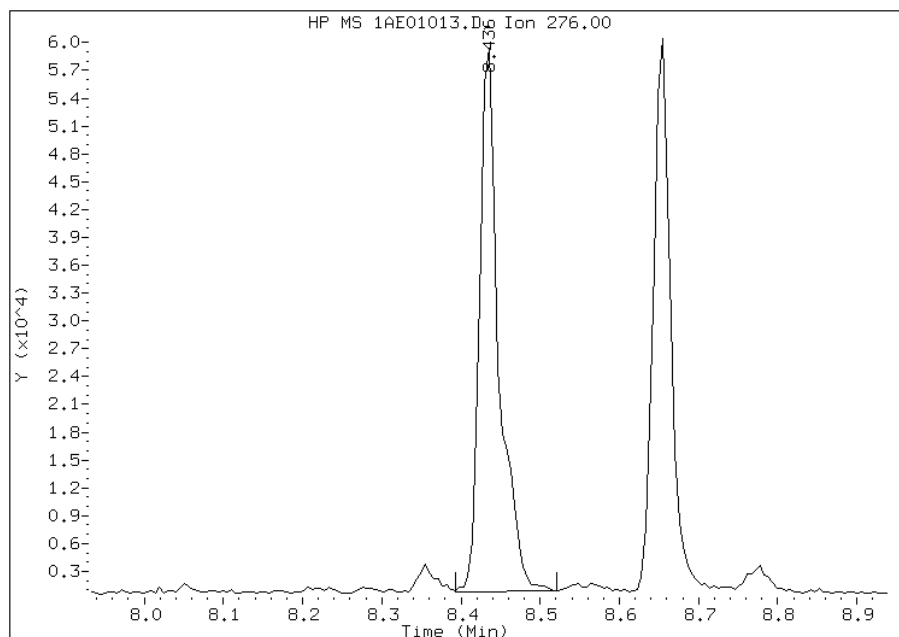


Manual Integration Report

Data File: 1AE01013.D  
Inj. Date and Time: 01-MAY-2013 16:02  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/01/2013

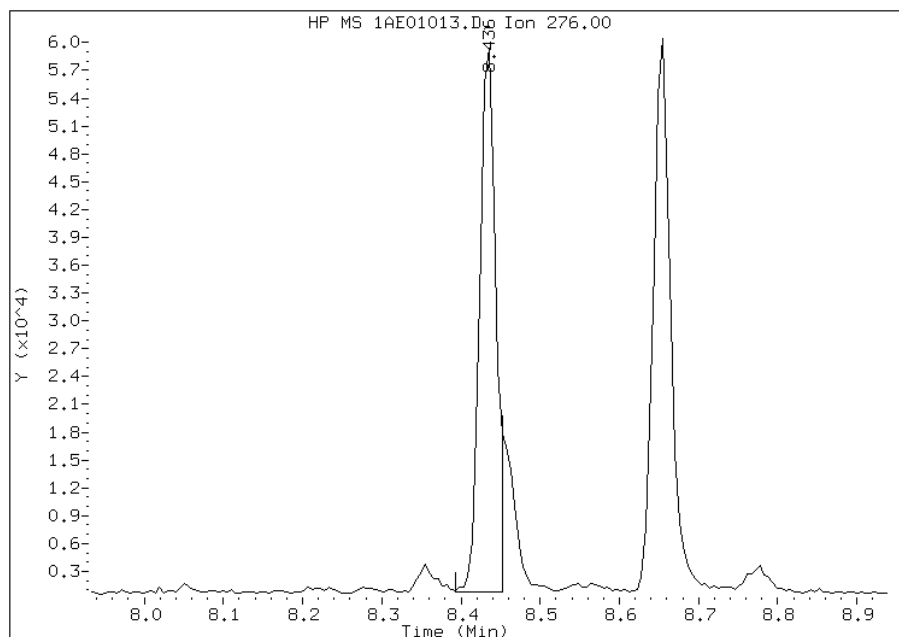
Processing Integration Results

RT: 8.44  
Response: 98707  
Amount: 2  
Conc: 639



Manual Integration Results

RT: 8.44  
Response: 82708  
Amount: 2  
Conc: 535



Manually Integrated By: cantins  
Modification Date: 01-May-2013 16:21  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: 680-89791-A-22-C MSD  
 Matrix: Solid Lab File ID: 1AE02019.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/30/2013 14:42  
 Sample wt/vol: 15.00(g) Date Analyzed: 05/02/2013 19:42  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 15.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137070 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	370	J	470	94
208-96-8	Acenaphthylene	353		190	24
120-12-7	Anthracene	397		40	20
56-55-3	Benzo[a]anthracene	489		38	18
50-32-8	Benzo[a]pyrene	377		49	24
205-99-2	Benzo[b]fluoranthene	431		57	29
191-24-2	Benzo[g,h,i]perylene	411		94	21
207-08-9	Benzo[k]fluoranthene	405		38	17
218-01-9	Chrysene	447		42	21
53-70-3	Dibenz(a,h)anthracene	465		94	19
206-44-0	Fluoranthene	391		94	19
86-73-7	Fluorene	372		94	19
193-39-5	Indeno[1,2,3-cd]pyrene	410		94	33
90-12-0	1-Methylnaphthalene	432		190	21
91-57-6	2-Methylnaphthalene	430		190	33
91-20-3	Naphthalene	403		190	21
85-01-8	Phenanthrene	442		38	18
129-00-0	Pyrene	438		94	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	53		30-130



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02019.D  
 Lab Smp Id: 680-89791-a-22-c ms  
 Inj Date : 02-MAY-2013 19:42  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-89791-a-22-c msd  
 Misc Info : 4.0  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\A-BFASTPAHi-m.m  
 Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 16 QC Sample: MSD  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.554	2.550	(1.000)	1135452	40.0000		
* 6 Acenaphthene-d10	164		3.585	3.581	(1.000)	609121	40.0000		
* 10 Phenanthrene-d10	188		4.536	4.532	(1.000)	872011	40.0000		
\$ 14 o-Terphenyl	230		4.835	4.831	(1.066)	18799	1.31803	351.4739	
* 18 Chrysene-d12	240		6.560	6.551	(1.000)	739170	40.0000		
* 23 Perylene-d12	264		7.645	7.641	(1.000)	879378	40.0000		
2 Naphthalene	128		2.564	2.560	(1.004)	36432	1.28354	342.2776	
3 2-Methylnaphthalene	141		2.970	2.972	(1.163)	22335	1.37251	366.0014	
4 1-Methylnaphthalene	142		3.029	3.025	(1.186)	24834	1.37742	367.3128	
5 Acenaphthylene	152		3.494	3.490	(0.975)	40091	1.12619	300.3179	
7 Acenaphthene	154		3.601	3.597	(1.004)	22037	1.18041	314.7773	
9 Fluorene	166		3.916	3.912	(1.092)	26664	1.18711	316.5639	
11 Phenanthrene	178		4.552	4.548	(1.004)	35630	1.41051	376.1352	
12 Anthracene	178		4.584	4.580	(1.011)	33251	1.26596	337.5898	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	4.717	4.713	(1.040)	31068	1.22614	326.9706(R)
15 Fluoranthene	202	5.417	5.413	(1.194)	36349	1.24584	332.2234
16 Pyrene	202	5.583	5.579	(0.851)	39376	1.39632	372.3517
17 Benzo(a)anthracene	228	6.550	6.540	(0.998)	37622	1.55855	415.6129
19 Chrysene	228	6.576	6.572	(1.002)	34880	1.42428	379.8070
20 Benzo(b)fluoranthene	252	7.367	7.363	(0.964)	36711	1.37508	366.6875
21 Benzo(k)fluoranthene	252	7.388	7.384	(0.966)	39652	1.29180	344.4787
22 Benzo(a)pyrene	252	7.597	7.593	(0.994)	31924	1.20200	320.5339(R)
24 Indeno(1,2,3-cd)pyrene	276	8.403	8.405	(1.099)	32776	1.30700	348.5340(M)
25 Dibenzo(a,h)anthracene	278	8.430	8.431	(1.103)	34579	1.48197	395.1923
26 Benzo(g,h,i)perylene	276	8.622	8.624	(1.128)	36737	1.30894	349.0509

QC Flag Legend

R - Spike/Surrogate failed recovery limits.  
M - Compound response manually integrated.

Data File: 1AE02019.D

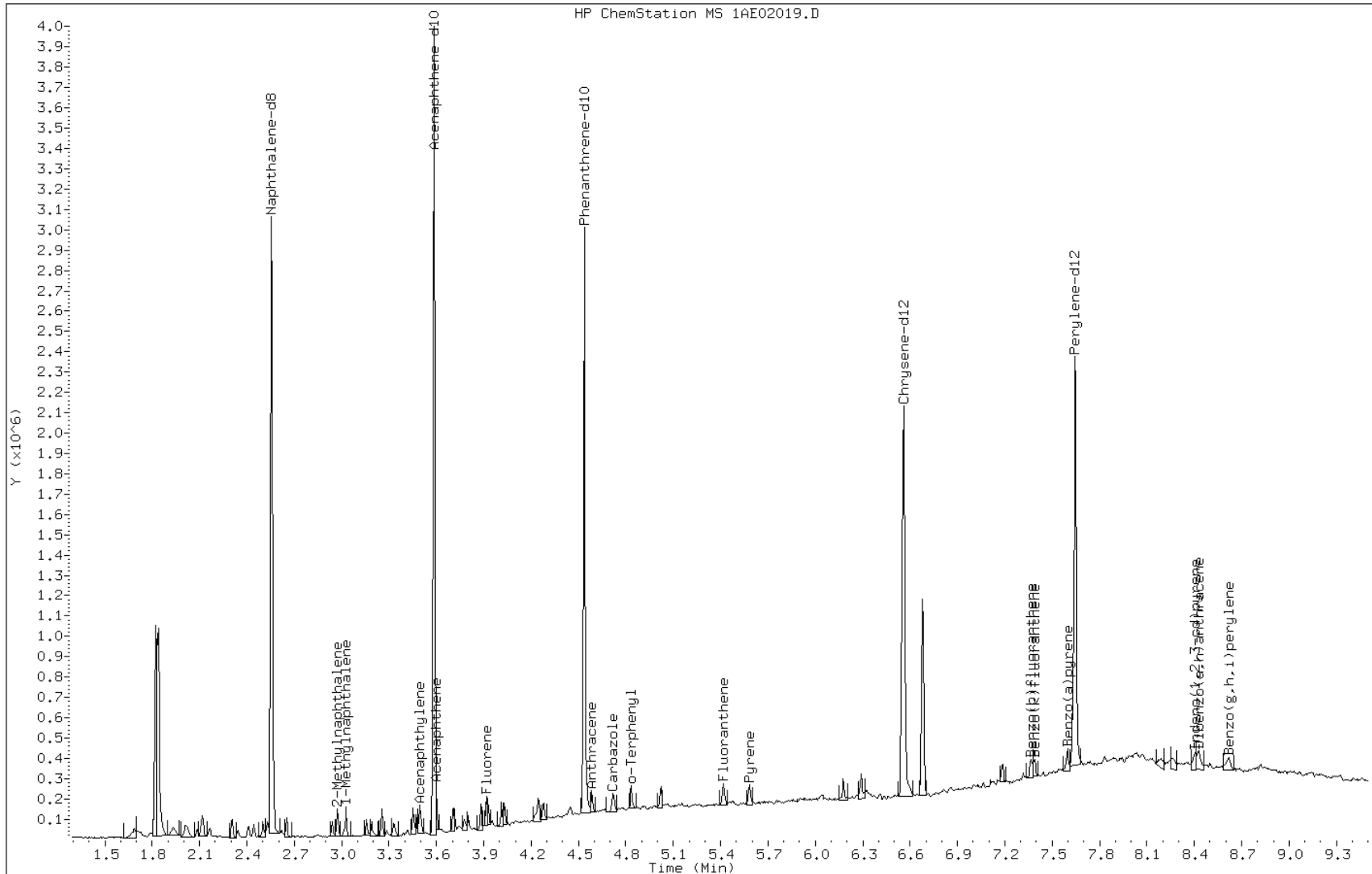
Date: 02-MAY-2013 19:42

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-89791-a-22-c msd

Operator: SCC

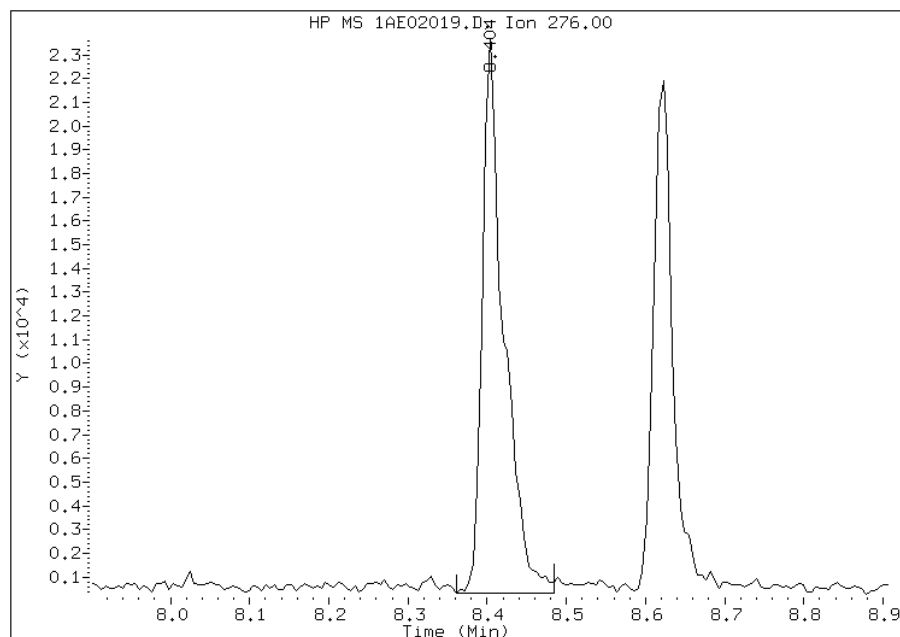


# Manual Integration Report

Data File: 1AE02019.D  
Inj. Date and Time: 02-MAY-2013 19:42  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/03/2013

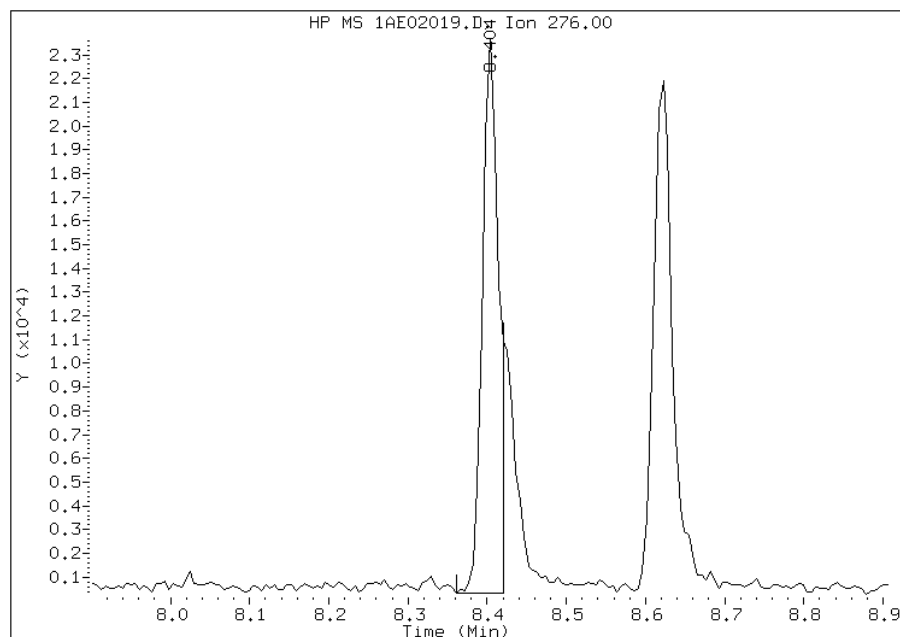
## Processing Integration Results

RT: 8.40  
Response: 43815  
Amount: 2  
Conc: 466



## Manual Integration Results

RT: 8.40  
Response: 32776  
Amount: 1  
Conc: 349



Manually Integrated By: cantins  
Modification Date: 03-May-2013 10:48  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: 680-89985-A-3-C MSD  
 Matrix: Solid Lab File ID: 1AE06026.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 05/06/2013 08:14  
 Sample wt/vol: 15.20(g) Date Analyzed: 05/06/2013 17:11  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 26.6 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 137156 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	364		130	27
208-96-8	Acenaphthylene	520		54	6.7
120-12-7	Anthracene	680		11	5.6
56-55-3	Benzo[a]anthracene	1910		11	5.2
50-32-8	Benzo[a]pyrene	1180		14	7.0
205-99-2	Benzo[b]fluoranthene	2560		16	8.2
191-24-2	Benzo[g,h,i]perylene	940		27	5.9
207-08-9	Benzo[k]fluoranthene	1390		11	4.8
218-01-9	Chrysene	2560		12	6.1
53-70-3	Dibenz(a,h)anthracene	664		27	5.5
206-44-0	Fluoranthene	4900		27	5.4
86-73-7	Fluorene	415		27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	1030		27	9.5
90-12-0	1-Methylnaphthalene	545		54	5.9
91-57-6	2-Methylnaphthalene	584		54	9.5
91-20-3	Naphthalene	476		54	5.9
85-01-8	Phenanthrene	1010		11	5.2
129-00-0	Pyrene	3930		27	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	37		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06026.D  
 Lab Smp Id: 680-89985-a-3-c msd  
 Inj Date : 06-MAY-2013 17:11  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-89985-a-3-c msd  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m  
 Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD  
 Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D  
 Als bottle: 26 QC Sample: MSD  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.200	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.548	2.544	(1.000)	1083422	40.0000		
* 6 Acenaphthene-d10	164		3.574	3.575	(1.000)	548460	40.0000		
* 10 Phenanthrene-d10	188		4.524	4.521	(1.000)	839987	40.0000		
\$ 14 o-Terphenyl	230		4.824	4.820	(1.066)	44751	3.72241	244.8954	
* 18 Chrysene-d12	240		6.549	6.535	(1.000)	759310	40.0000		
* 23 Perylene-d12	264		7.639	7.630	(1.000)	953129	40.0000		
2 Naphthalene	128		2.559	2.555	(1.004)	135365	5.30558	349.0516	
3 2-Methylnaphthalene	141		2.965	2.961	(1.164)	84460	6.51375	428.5359	
4 1-Methylnaphthalene	142		3.018	3.014	(1.184)	94568	6.08479	400.3153	
5 Acenaphthylene	152		3.488	3.484	(0.976)	149393	5.79681	381.3692	
7 Acenaphthene	154		3.590	3.591	(1.004)	60179	4.06611	267.5070	
9 Fluorene	166		3.905	3.901	(1.093)	78040	4.62695	304.4049	
11 Phenanthrene	178		4.541	4.537	(1.004)	234487	11.2680	741.3155	
12 Anthracene	178		4.573	4.569	(1.011)	168081	7.58233	498.8376	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.711	4.702	(1.041)	133189	6.68247	439.6361
15 Fluoranthene	202	5.411	5.397	(1.196)	1308787	54.6693	3596.6633(AR)
16 Pyrene	202	5.582	5.562	(0.852)	1070222	43.8488	2884.7872(R)
17 Benzo(a)anthracene	228	6.544	6.524	(0.999)	453980	21.2738	1399.5910(R)
19 Chrysene	228	6.571	6.551	(1.003)	685827	28.5637	1879.1881(R)
20 Benzo(b)fluoranthene	252	7.372	7.347	(0.965)	718793	28.5317	1877.0844(RM)
21 Benzo(k)fluoranthene	252	7.377	7.368	(0.966)	485804	15.5438	1022.6198(RM)
22 Benzo(a)pyrene	252	7.591	7.576	(0.994)	341143	13.1854	867.4573(R)
24 Indeno(1,2,3-cd)pyrene	276	8.403	8.388	(1.100)	248664	11.4724	754.7659(M)
25 Dibenzo(a,h)anthracene	278	8.424	8.414	(1.103)	164590	7.40794	487.3643
26 Benzo(g,h,i)perylene	276	8.622	8.602	(1.129)	244433	10.4871	689.9402

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: 1AE06026.D

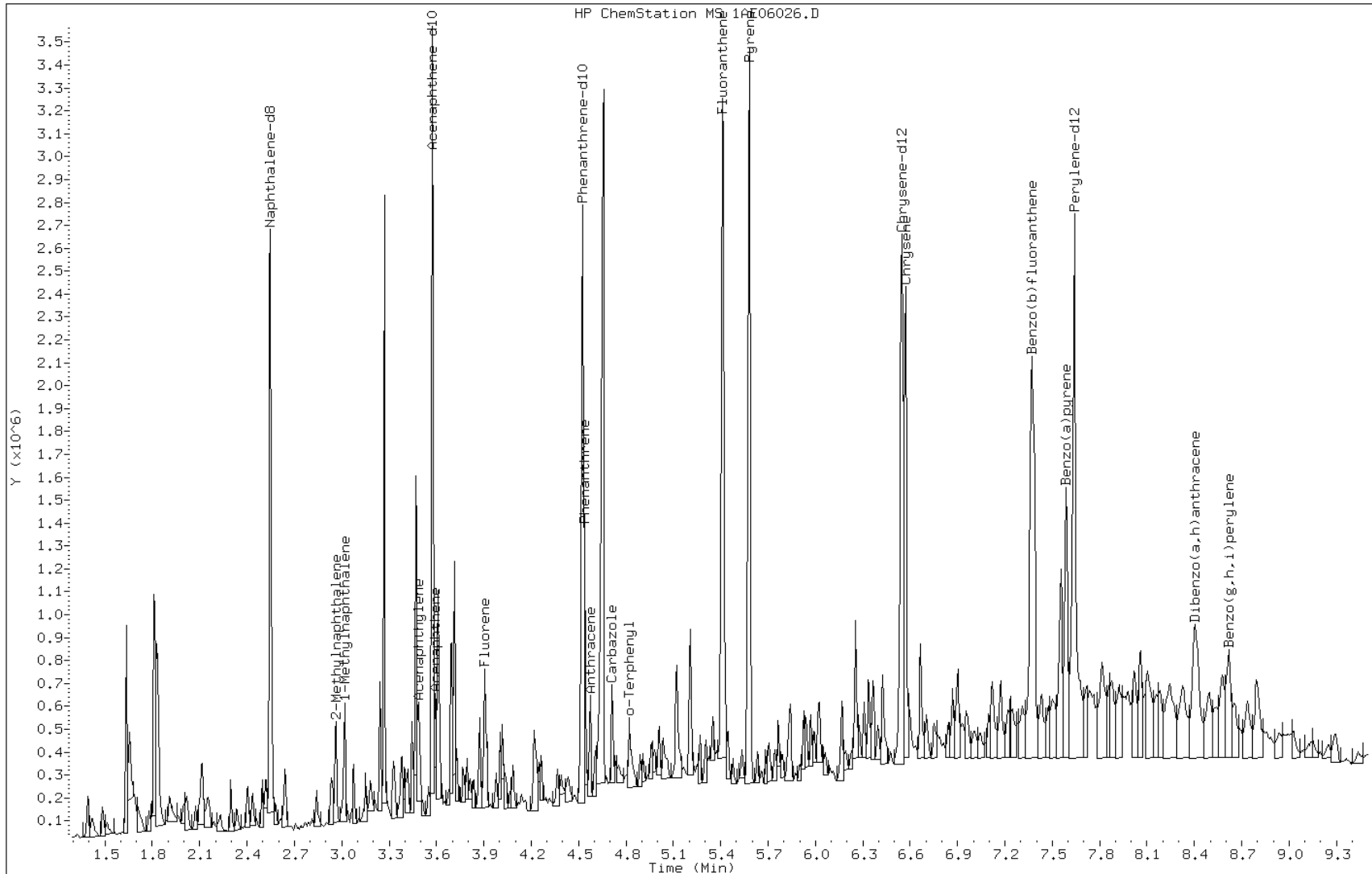
Date: 06-MAY-2013 17:11

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-89985-a-3-c msd

Operator: SCC



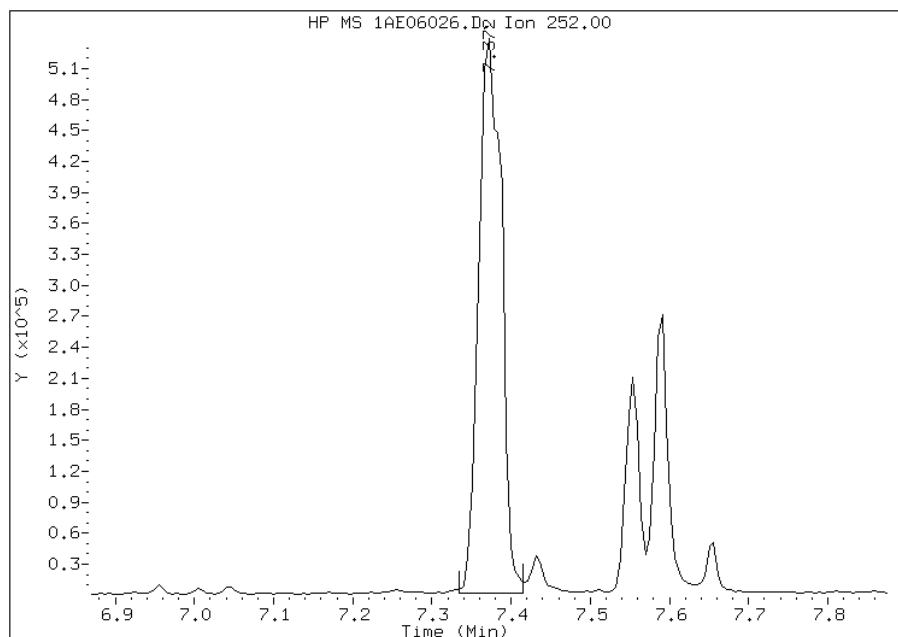


# Manual Integration Report

Data File: 1AE06026.D  
Inj. Date and Time: 06-MAY-2013 17:11  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 05/07/2013

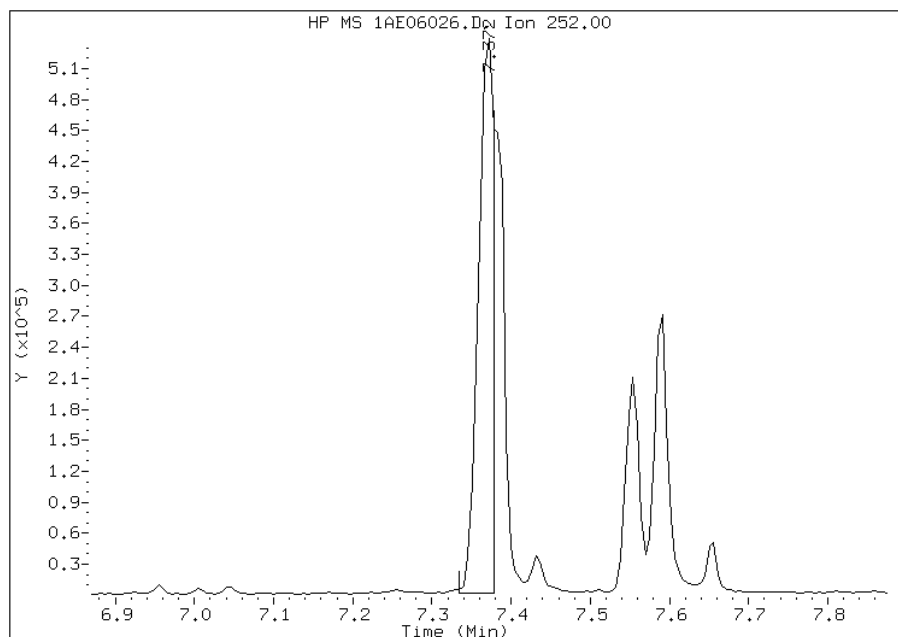
## Processing Integration Results

RT: 7.37  
Response: 1064920  
Amount: 42  
Conc: 2781



## Manual Integration Results

RT: 7.37  
Response: 718793  
Amount: 29  
Conc: 1877



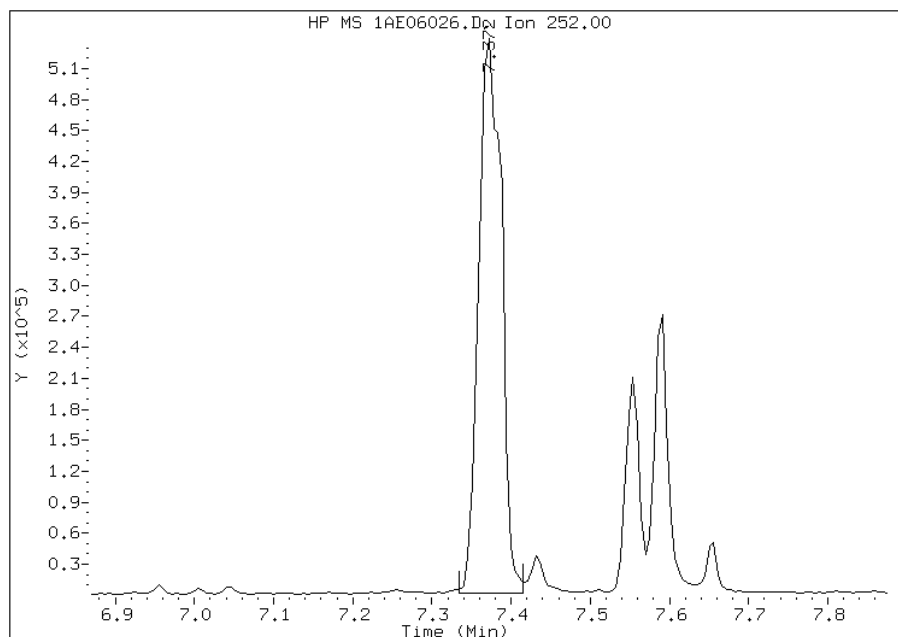
Manually Integrated By: cantins  
Modification Date: 07-May-2013 13:57  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AE06026.D  
Inj. Date and Time: 06-MAY-2013 17:11  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 05/07/2013

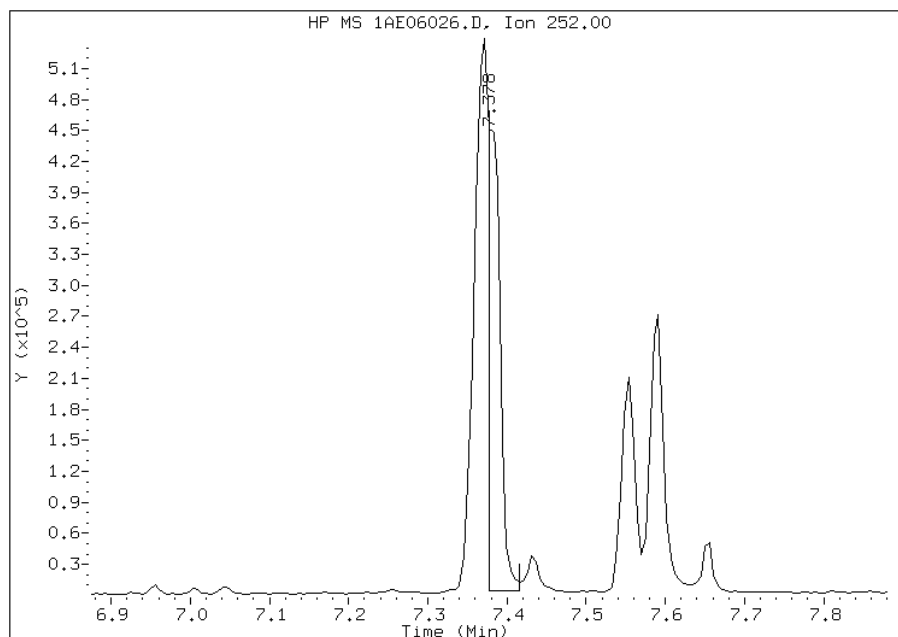
## Processing Integration Results

RT: 7.37  
Response: 1064920  
Amount: 34  
Conc: 2242



## Manual Integration Results

RT: 7.38  
Response: 485804  
Amount: 16  
Conc: 1023



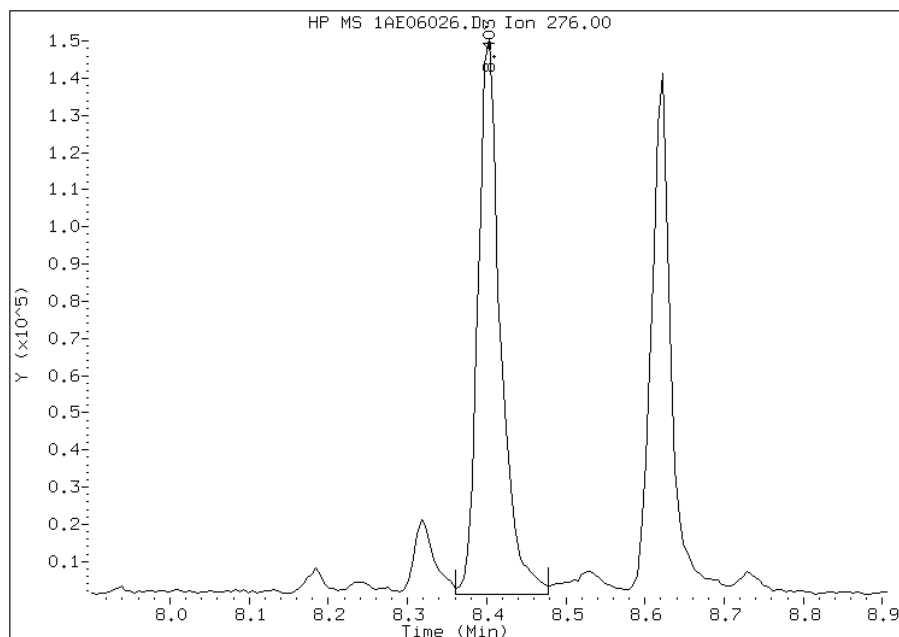
Manually Integrated By: cantins  
Modification Date: 07-May-2013 13:57  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE06026.D  
Inj. Date and Time: 06-MAY-2013 17:11  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/07/2013

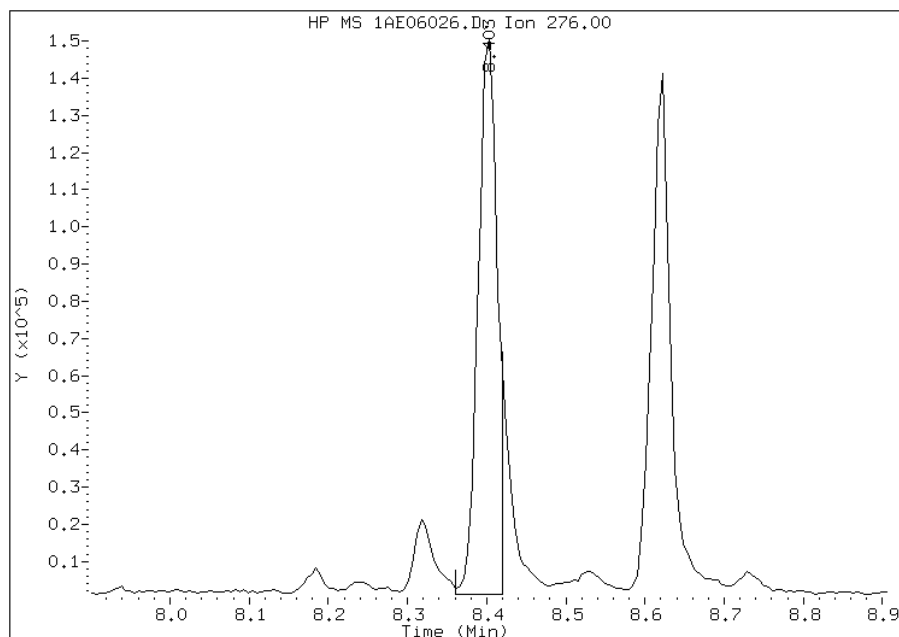
## Processing Integration Results

RT: 8.40  
Response: 292421  
Amount: 13  
Conc: 888



## Manual Integration Results

RT: 8.40  
Response: 248664  
Amount: 11  
Conc: 755



Manually Integrated By: cantins  
Modification Date: 07-May-2013 13:57  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1  
 SDG No.: 68089791-1  
 Client Sample ID: HP0200B-CS-SP MSD Lab Sample ID: 680-89791-2 MSD  
 Matrix: Solid Lab File ID: 1AD30022.D  
 Analysis Method: 8270C LL Date Collected: 04/24/2013 10:30  
 Extract. Method: 3546 Date Extracted: 04/30/2013 09:33  
 Sample wt/vol: 15.17(g) Date Analyzed: 04/30/2013 16:42  
 Con. Extract Vol.: 10(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 15.9 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136977 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	1200	U	1200	240
208-96-8	Acenaphthylene	85.2	J	470	59
120-12-7	Anthracene	96.7	J	99	49
56-55-3	Benzo[a]anthracene	176		94	46
50-32-8	Benzo[a]pyrene	98.0	J	120	61
205-99-2	Benzo[b]fluoranthene	145		140	72
191-24-2	Benzo[g,h,i]perylene	134	J	240	52
207-08-9	Benzo[k]fluoranthene	97.6		94	42
218-01-9	Chrysene	188		110	53
53-70-3	Dibenz(a,h)anthracene	88.6	J	240	48
206-44-0	Fluoranthene	177	J	240	47
86-73-7	Fluorene	135	J	240	48
193-39-5	Indeno[1,2,3-cd]pyrene	105	J	240	83
90-12-0	1-Methylnaphthalene	110	J	470	52
91-57-6	2-Methylnaphthalene	132	J	470	83
91-20-3	Naphthalene	595		470	52
85-01-8	Phenanthrene	214		94	46
129-00-0	Pyrene	151	J	240	44

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	14	X	30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A043013.b\1AD30022.D  
 Lab Smp Id: 680-89791-c-2-c msd  
 Inj Date : 30-APR-2013 16:42  
 Operator : SCC  
 Smp Info : 680-89791-c-2-c msd  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A043013.b\A-BFASTPAHi-m.m  
 Meth Date : 30-Apr-2013 11:48 cantins Quant Type: ISTD  
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D  
 Als bottle: 21 QC Sample: MSD  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * 1/\text{Vi} * \text{Vt}/\text{Ws} * 100/(100 - \text{M}) * \text{A} * \text{B} * \text{C} * \text{D} * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.170	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.572	2.568	(1.000)	1184311	40.0000	
* 6 Acenaphthene-d10	164		3.603	3.599	(1.000)	609567	40.0000	
* 10 Phenanthrene-d10	188		4.559	4.550	(1.000)	1006516	40.0000	
\$ 14 o-Terphenyl	230		4.853	4.854	(1.064)	2231	0.13552	8.9331(R)
* 18 Chrysene-d12	240		6.578	6.574	(1.000)	1058093	40.0000	
* 23 Perylene-d12	264		7.673	7.659	(1.000)	1118051	40.0000	
2 Naphthalene	128		2.620	2.578	(1.019)	22472	0.75905	50.0363(RM)
3 2-Methylnaphthalene	141		2.988	2.984	(1.162)	2868	0.16897	11.1384(R)
4 1-Methylnaphthalene	142		3.047	3.043	(1.185)	2636	0.14017	9.2402(R)
5 Acenaphthylene	152		3.512	3.513	(0.975)	3871	0.10866	7.1628(RM)
7 Acenaphthene	154		3.619	3.620	(1.004)	1982	0.10609	6.9933(aR)
9 Fluorene	166		3.934	3.930	(1.092)	3857	0.17159	11.3113(R)
11 Phenanthrene	178		4.570	4.566	(1.002)	7955	0.27284	17.9852(R)
12 Anthracene	178		4.602	4.603	(1.009)	3739	0.12333	8.1299(R)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.735	4.731 (1.039)		3667	0.12538	8.2651(QR)
15 Fluoranthene	202	5.435	5.431 (1.192)		7584	0.22520	14.8451(R)
16 Pyrene	202	5.601	5.597 (0.851)		7776	0.19263	12.6982(R)
17 Benzo(a)anthracene	228	6.573	6.558 (0.999)		7760	0.22457	14.8038(R)
19 Chrysene	228	6.594	6.590 (1.002)		8404	0.23973	15.8029(RM)
20 Benzo(b)fluoranthene	252	7.390	7.381 (0.963)		6296	0.18549	12.2271(R)
21 Benzo(k)fluoranthene	252	7.406	7.402 (0.965)		4861	0.12456	8.2107(R)
22 Benzo(a)pyrene	252	7.620	7.611 (0.993)		4221	0.12500	8.2400(QR)
24 Indeno(1,2,3-cd)pyrene	276	8.432	8.423 (1.099)		4263	0.13371	8.8138(RM)
25 Dibenzo(a,h)anthracene	278	8.453	8.449 (1.102)		3355	0.11309	7.4550(R)
26 Benzo(g,h,i)perylene	276	8.651	8.647 (1.127)		6087	0.17058	11.2447(R)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: 1AD30022.D

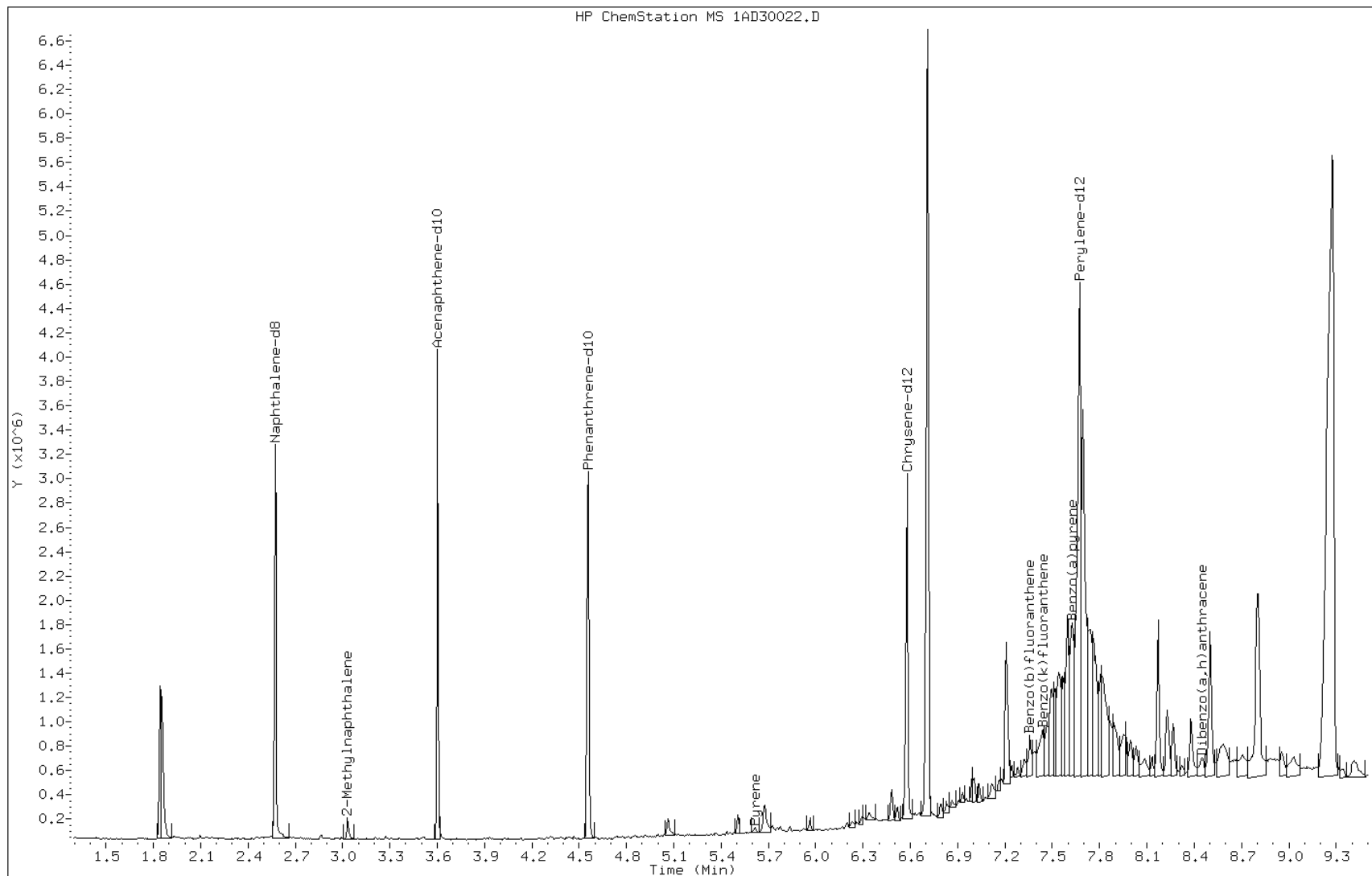
Date: 30-APR-2013 16:42

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-89791-c-2-c msd

Operator: SCC



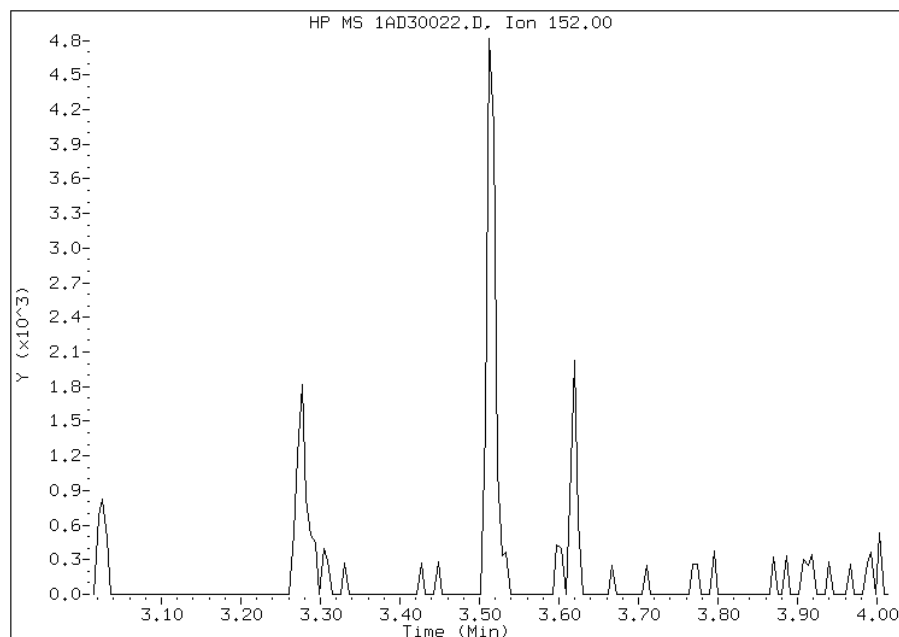
# Manual Integration Report

Data File: 1AD30022.D  
Inj. Date and Time: 30-APR-2013 16:42  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 5 Acenaphthylene  
CAS #: 208-96-8  
Report Date: 04/30/2013

## Processing Integration Results

Not Detected

Expected RT: 3.51



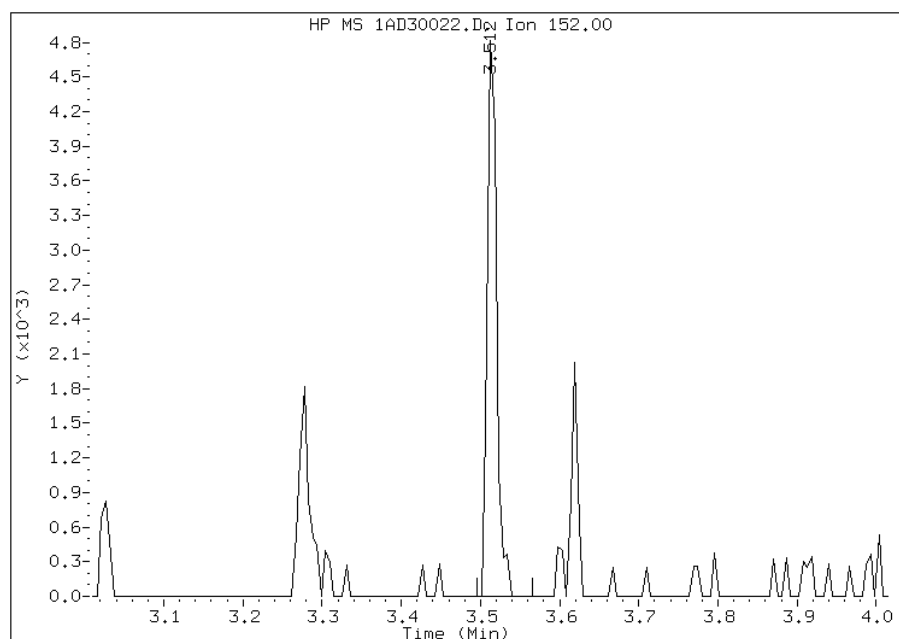
## Manual Integration Results

RT: 3.51

Response: 3871

Amount: 0

Conc: 7



Manually Integrated By: cantins  
Modification Date: 30-Apr-2013 16:57  
Manual Integration Reason: Analyte not Identified by the Data System

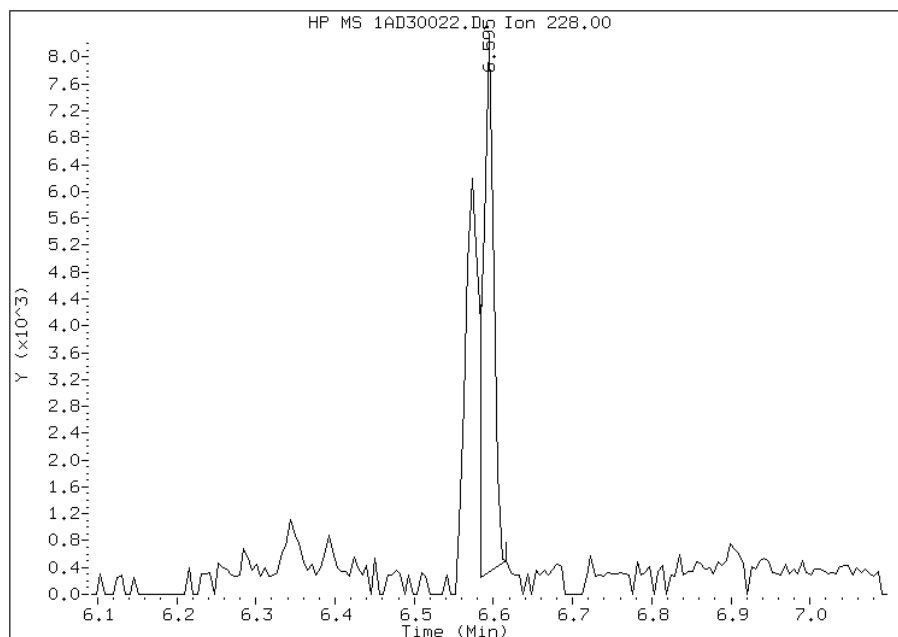


# Manual Integration Report

Data File: 1AD30022.D  
Inj. Date and Time: 30-APR-2013 16:42  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 19 Chrysene  
CAS #: 218-01-9  
Report Date: 04/30/2013

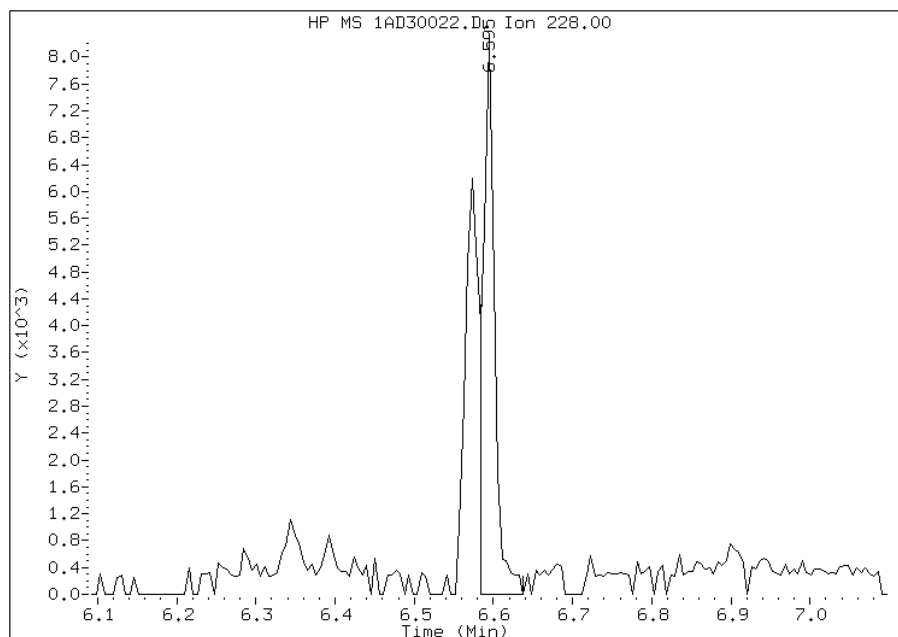
## Processing Integration Results

RT: 6.59  
Response: 7258  
Amount: 0  
Conc: 14



## Manual Integration Results

RT: 6.59  
Response: 8404  
Amount: 0  
Conc: 16



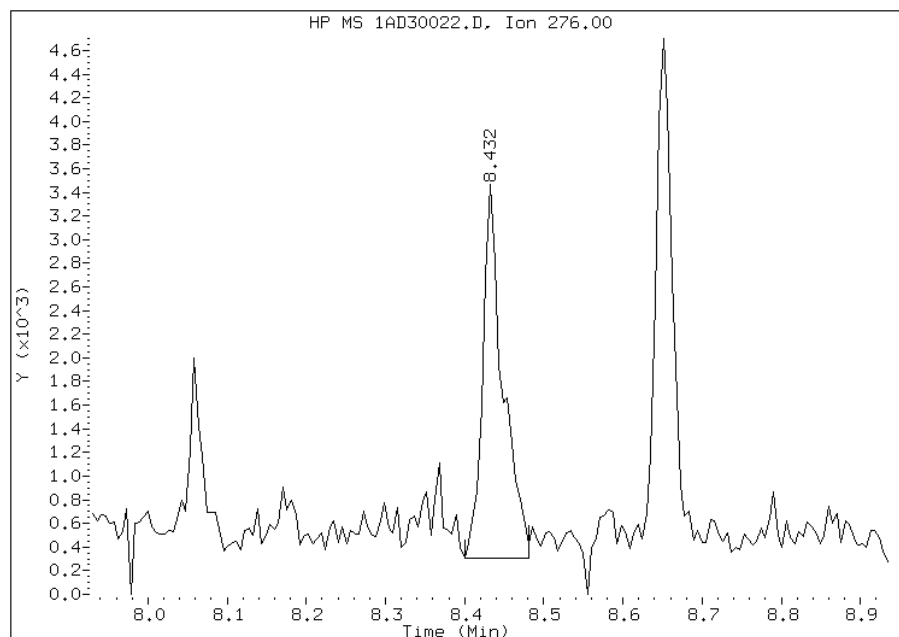
Manually Integrated By: cantins  
Modification Date: 30-Apr-2013 16:57  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AD30022.D  
Inj. Date and Time: 30-APR-2013 16:42  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/30/2013

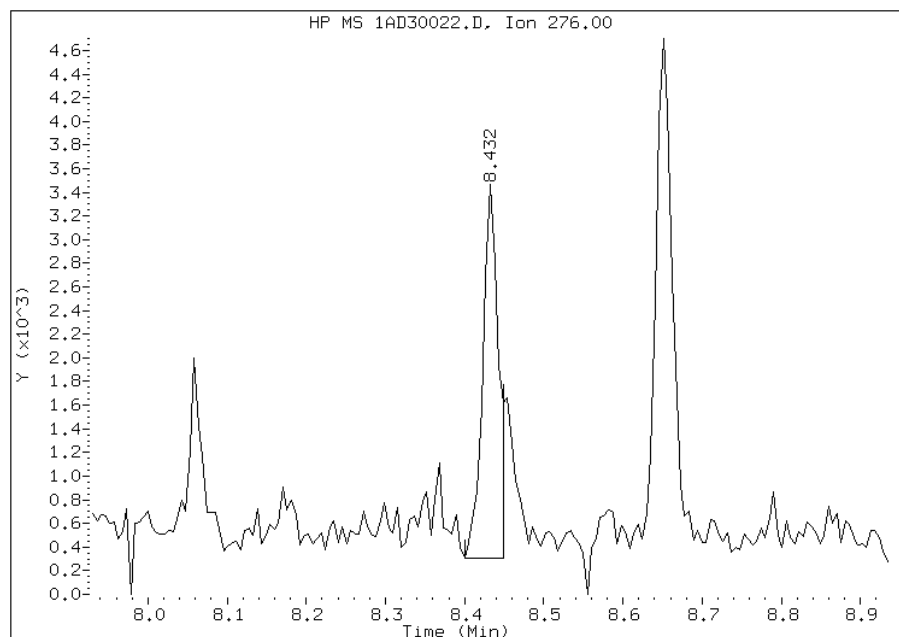
## Processing Integration Results

RT: 8.43  
Response: 5513  
Amount: 0  
Conc: 11



## Manual Integration Results

RT: 8.43  
Response: 4263  
Amount: 0  
Conc: 9



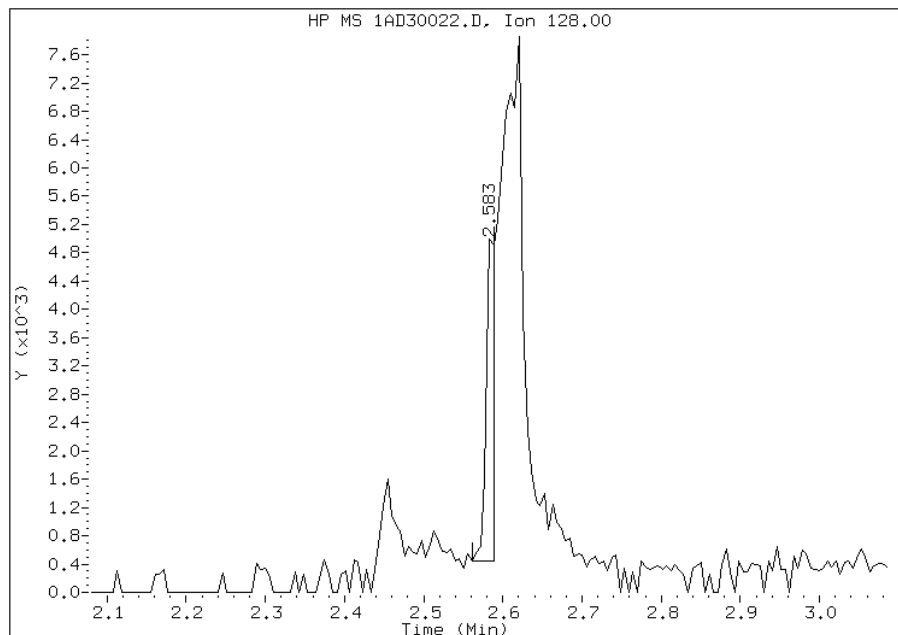
Manually Integrated By: cantins  
Modification Date: 30-Apr-2013 16:58  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AD30022.D  
Inj. Date and Time: 30-APR-2013 16:42  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 2 Naphthalene  
CAS #: 91-20-3  
Report Date: 04/30/2013

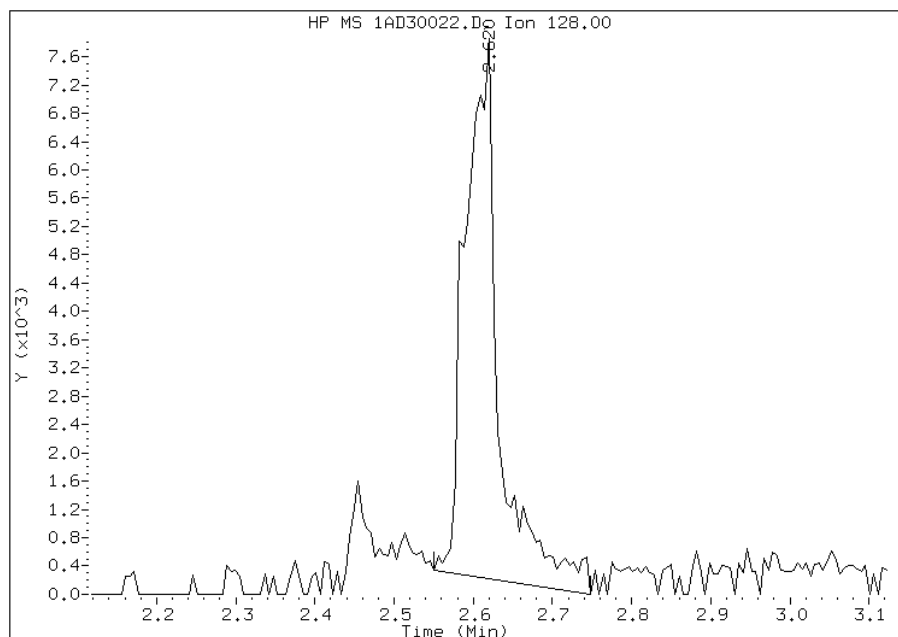
## Processing Integration Results

RT: 2.58  
Response: 3377  
Amount: 0  
Conc: 8



## Manual Integration Results

RT: 2.62  
Response: 22472  
Amount: 1  
Conc: 50



Manually Integrated By: cantins  
Modification Date: 30-Apr-2013 16:57  
Manual Integration Reason: Baseline Event

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-89791-1SDG No.: 68089791-1Instrument ID: BSMA5973Start Date: 04/26/2013 09:20Analysis Batch Number: 136892End Date: 04/26/2013 19:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/26/2013 09:20	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 09:35	1		DB-5MS 250 (um)
DFTPP 660-136892/2		04/26/2013 09:50	1	1AD26002.D	DB-5MS 250 (um)
IC 660-136892/3		04/26/2013 10:03	1	1AD26003.D	DB-5MS 250 (um)
IC 660-136892/4		04/26/2013 10:18	1	1AD26004.D	DB-5MS 250 (um)
IC 660-136892/5		04/26/2013 10:33	1	1AD26005.D	DB-5MS 250 (um)
IC 660-136892/6		04/26/2013 10:48	1	1AD26006.D	DB-5MS 250 (um)
ICIS 660-136892/7		04/26/2013 11:03	1	1AD26007.D	DB-5MS 250 (um)
IC 660-136892/8		04/26/2013 11:19	1	1AD26008.D	DB-5MS 250 (um)
IC 660-136892/9		04/26/2013 11:34	1	1AD26009.D	DB-5MS 250 (um)
ICV 660-136892/10		04/26/2013 11:49	1	1AD26010.D	DB-5MS 250 (um)
ZZZZZ		04/26/2013 13:49	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 14:04	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 14:19	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 14:34	4		DB-5MS 250 (um)
ZZZZZ		04/26/2013 14:49	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 15:04	4		DB-5MS 250 (um)
ZZZZZ		04/26/2013 15:19	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 15:34	4		DB-5MS 250 (um)
ZZZZZ		04/26/2013 15:49	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 16:04	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 16:19	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 16:34	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 16:49	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 17:04	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 17:19	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 17:34	4		DB-5MS 250 (um)
ZZZZZ		04/26/2013 17:49	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 18:04	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 18:19	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 18:34	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 18:49	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 19:04	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 19:19	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 19:35	4		DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89791-1SDG No.: 68089791-1Instrument ID: BSMA5973 Start Date: 04/30/2013 10:52Analysis Batch Number: 136977 End Date: 04/30/2013 16:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/30/2013 10:52	1		DB-5MS 250 (um)
ZZZZZ		04/30/2013 11:08	1		DB-5MS 250 (um)
DFTPP 660-136977/2		04/30/2013 11:23	1	1AD30002.D	DB-5MS 250 (um)
CCVIS 660-136977/3		04/30/2013 11:37	1	1AD30003.D	DB-5MS 250 (um)
ZZZZZ		04/30/2013 11:52	1		DB-5MS 250 (um)
ZZZZZ		04/30/2013 12:07	1		DB-5MS 250 (um)
ZZZZZ		04/30/2013 12:24	1		DB-5MS 250 (um)
ZZZZZ		04/30/2013 12:57	1		DB-5MS 250 (um)
MB 660-136958/1-A		04/30/2013 13:13	1	1AD30008.D	DB-5MS 250 (um)
LCS 660-136958/2-A		04/30/2013 13:28	1	1AD30009.D	DB-5MS 250 (um)
ZZZZZ		04/30/2013 13:43	1		DB-5MS 250 (um)
ZZZZZ		04/30/2013 13:58	1		DB-5MS 250 (um)
ZZZZZ		04/30/2013 14:13	1		DB-5MS 250 (um)
ZZZZZ		04/30/2013 14:28	1		DB-5MS 250 (um)
ZZZZZ		04/30/2013 14:42	1		DB-5MS 250 (um)
ZZZZZ		04/30/2013 14:57	1		DB-5MS 250 (um)
ZZZZZ		04/30/2013 15:12	1		DB-5MS 250 (um)
ZZZZZ		04/30/2013 15:27	1		DB-5MS 250 (um)
ZZZZZ		04/30/2013 15:42	1		DB-5MS 250 (um)
ZZZZZ		04/30/2013 15:57	1		DB-5MS 250 (um)
680-89791-2	HP0200B-CS-SP	04/30/2013 16:12	1	1AD30020.D	DB-5MS 250 (um)
680-89791-2 MS	HP0200B-CS-SP MS	04/30/2013 16:27	1	1AD30021.D	DB-5MS 250 (um)
680-89791-2 MSD	HP0200B-CS-SP MSD	04/30/2013 16:42	1	1AD30022.D	DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-89791-1SDG No.: 68089791-1Instrument ID: BSMA5973Start Date: 05/01/2013 09:58Analysis Batch Number: 137001End Date: 05/01/2013 22:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/01/2013 09:58	1		DB-5MS 250 (um)
ZZZZZ		05/01/2013 10:14	1		DB-5MS 250 (um)
DFTPP 660-137001/2		05/01/2013 10:29	1		DB-5MS 250 (um)
CCVIS 660-137001/3		05/01/2013 10:49	1		DB-5MS 250 (um)
ZZZZZ		05/01/2013 13:31	1		DB-5MS 250 (um)
ZZZZZ		05/01/2013 13:46	1		DB-5MS 250 (um)
DFTPP 660-137001/6		05/01/2013 14:01	1	1AE01005.D	DB-5MS 250 (um)
CCVIS 660-137001/7		05/01/2013 14:15	1	1AE01006.D	DB-5MS 250 (um)
ZZZZZ		05/01/2013 14:30	1		DB-5MS 250 (um)
MB 660-136938/1-A		05/01/2013 14:46	1	1AE01008.D	DB-5MS 250 (um)
LCS 660-136938/2-A		05/01/2013 15:02	1	1AE01009.D	DB-5MS 250 (um)
ZZZZZ		05/01/2013 15:17	4		DB-5MS 250 (um)
ZZZZZ		05/01/2013 15:32	4		DB-5MS 250 (um)
680-89695-A-21-B MS		05/01/2013 15:47	4	1AE01012.D	DB-5MS 250 (um)
680-89695-A-21-C MSD		05/01/2013 16:02	4	1AE01013.D	DB-5MS 250 (um)
ZZZZZ		05/01/2013 16:17	20		DB-5MS 250 (um)
ZZZZZ		05/01/2013 16:33	1		DB-5MS 250 (um)
ZZZZZ		05/01/2013 16:48	4		DB-5MS 250 (um)
ZZZZZ		05/01/2013 17:03	1		DB-5MS 250 (um)
ZZZZZ		05/01/2013 17:18	1		DB-5MS 250 (um)
ZZZZZ		05/01/2013 17:33	4		DB-5MS 250 (um)
ZZZZZ		05/01/2013 17:48	4		DB-5MS 250 (um)
680-89791-3	HP0232A-CS-SP	05/01/2013 18:03	1	1AE01021.D	DB-5MS 250 (um)
680-89791-4	HP0232B-CS-SP	05/01/2013 18:18	1	1AE01022.D	DB-5MS 250 (um)
680-89791-5	HP0288A-CS-SP	05/01/2013 18:33	1	1AE01023.D	DB-5MS 250 (um)
680-89791-6	CV1342A-CS-SP	05/01/2013 18:48	1	1AE01024.D	DB-5MS 250 (um)
680-89791-7	CV1342B-CS-SP	05/01/2013 19:03	4	1AE01025.D	DB-5MS 250 (um)
680-89791-8	CV1116A-CS	05/01/2013 19:18	4	1AE01026.D	DB-5MS 250 (um)
680-89791-9	CV1116B-CS	05/01/2013 19:33	1	1AE01027.D	DB-5MS 250 (um)
680-89791-10	CV1336A-CS	05/01/2013 19:48	1	1AE01028.D	DB-5MS 250 (um)
680-89791-11	CV1336A-CSD	05/01/2013 20:03	1	1AE01029.D	DB-5MS 250 (um)
680-89791-12	CV1336B-CS	05/01/2013 20:18	1	1AE01030.D	DB-5MS 250 (um)
680-89791-13	CV0790A-CS-SP	05/01/2013 20:33	4	1AE01031.D	DB-5MS 250 (um)
680-89791-14	CV0790B-CS-SP	05/01/2013 20:48	4	1AE01032.D	DB-5MS 250 (um)
ZZZZZ		05/01/2013 21:03	1		DB-5MS 250 (um)
ZZZZZ		05/01/2013 21:18	1		DB-5MS 250 (um)
ZZZZZ		05/01/2013 21:33	1		DB-5MS 250 (um)
ZZZZZ		05/01/2013 21:49	1		DB-5MS 250 (um)
ZZZZZ		05/01/2013 22:04	1		DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-89791-1SDG No.: 68089791-1Instrument ID: BSMA5973Start Date: 05/02/2013 12:46Analysis Batch Number: 137070End Date: 05/02/2013 22:57

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/02/2013 12:46	1		DB-5MS 250 (um)
ZZZZZ		05/02/2013 13:01	1		DB-5MS 250 (um)
DFTPP 660-137070/2		05/02/2013 13:16	1		DB-5MS 250 (um)
CCVIS 660-137070/3		05/02/2013 13:29	1		DB-5MS 250 (um)
ZZZZZ		05/02/2013 15:30	1		DB-5MS 250 (um)
ZZZZZ		05/02/2013 15:46	1		DB-5MS 250 (um)
DFTPP 660-137070/6		05/02/2013 16:01	1	1AE02005.D	DB-5MS 250 (um)
CCVIS 660-137070/7		05/02/2013 16:18	1	1AE02006.D	DB-5MS 250 (um)
ZZZZZ		05/02/2013 16:41	1		DB-5MS 250 (um)
MB 660-136975/1-A		05/02/2013 16:56	1	1AE02008.D	DB-5MS 250 (um)
ZZZZZ		05/02/2013 17:11	1		DB-5MS 250 (um)
LCS 660-136975/2-A		05/02/2013 17:26	1	1AE02010.D	DB-5MS 250 (um)
ZZZZZ		05/02/2013 17:41	1		DB-5MS 250 (um)
680-89791-15	CV0790C-CS-SP	05/02/2013 17:57	1	1AE02012.D	DB-5MS 250 (um)
680-89791-18	CV0121A-CS-SP	05/02/2013 18:12	4	1AE02013.D	DB-5MS 250 (um)
680-89791-19	CV0121B-CS-SP	05/02/2013 18:27	1	1AE02014.D	DB-5MS 250 (um)
680-89791-20	CV0752A-CS-SP	05/02/2013 18:42	1	1AE02015.D	DB-5MS 250 (um)
680-89791-21	CV0752B-CS-SP	05/02/2013 18:57	4	1AE02016.D	DB-5MS 250 (um)
ZZZZZ		05/02/2013 19:12	4		DB-5MS 250 (um)
680-89791-A-22-B MS		05/02/2013 19:27	4	1AE02018.D	DB-5MS 250 (um)
680-89791-A-22-C MSD		05/02/2013 19:42	4	1AE02019.D	DB-5MS 250 (um)
680-89791-23	CV1312A-CS-SP	05/02/2013 19:57	1	1AE02020.D	DB-5MS 250 (um)
ZZZZZ		05/02/2013 20:12	1		DB-5MS 250 (um)
ZZZZZ		05/02/2013 20:27	1		DB-5MS 250 (um)
ZZZZZ		05/02/2013 20:43	1		DB-5MS 250 (um)
ZZZZZ		05/02/2013 20:57	4		DB-5MS 250 (um)
ZZZZZ		05/02/2013 21:12	1		DB-5MS 250 (um)
ZZZZZ		05/02/2013 21:27	1		DB-5MS 250 (um)
ZZZZZ		05/02/2013 21:42	1		DB-5MS 250 (um)
ZZZZZ		05/02/2013 21:57	4		DB-5MS 250 (um)
ZZZZZ		05/02/2013 22:12	4		DB-5MS 250 (um)
ZZZZZ		05/02/2013 22:27	1		DB-5MS 250 (um)
ZZZZZ		05/02/2013 22:42	1		DB-5MS 250 (um)
ZZZZZ		05/02/2013 22:57	1		DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89791-1SDG No.: 68089791-1Instrument ID: BSMA5973 Start Date: 05/06/2013 09:41Analysis Batch Number: 137156 End Date: 05/06/2013 21:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/06/2013 09:41	1		DB-5MS 250 (um)
ZZZZZ		05/06/2013 09:56	1		DB-5MS 250 (um)
DFTPP 660-137156/2		05/06/2013 10:11	1	1AE06002.D	DB-5MS 250 (um)
ICIS 660-137156/3		05/06/2013 10:24	1	1AE06003.D	DB-5MS 250 (um)
IC 660-137156/4		05/06/2013 10:40	1	1AE06004.D	DB-5MS 250 (um)
IC 660-137156/5		05/06/2013 10:56	1	1AE06005.D	DB-5MS 250 (um)
IC 660-137156/6		05/06/2013 11:11	1	1AE06006.D	DB-5MS 250 (um)
IC 660-137156/7		05/06/2013 11:26	1	1AE06007.D	DB-5MS 250 (um)
IC 660-137156/8		05/06/2013 11:41	1	1AE06008.D	DB-5MS 250 (um)
IC 660-137156/9		05/06/2013 11:56	1	1AE06009.D	DB-5MS 250 (um)
ICV 660-137156/10		05/06/2013 12:11	1	1AE06010.D	DB-5MS 250 (um)
ZZZZZ		05/06/2013 14:52	1		DB-5MS 250 (um)
MB 660-137132/1-A		05/06/2013 15:08	1	1AE06018.D	DB-5MS 250 (um)
LCS 660-137132/2-A		05/06/2013 15:24	1	1AE06019.D	DB-5MS 250 (um)
ZZZZZ		05/06/2013 15:39	1		DB-5MS 250 (um)
ZZZZZ		05/06/2013 15:54	1		DB-5MS 250 (um)
ZZZZZ		05/06/2013 16:09	1		DB-5MS 250 (um)
ZZZZZ		05/06/2013 16:25	4		DB-5MS 250 (um)
ZZZZZ		05/06/2013 16:41	20		DB-5MS 250 (um)
680-89985-A-3-B MS		05/06/2013 16:56	1	1AE06025.D	DB-5MS 250 (um)
680-89985-A-3-C MSD		05/06/2013 17:11	1	1AE06026.D	DB-5MS 250 (um)
680-89791-1	HP0200A-CS-SP	05/06/2013 21:43	1	1AE06044.D	DB-5MS 250 (um)



## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1SDG No.: 68089791-1Batch Number: 136938 Batch Start Date: 04/29/13 14:27 Batch Analyst: Nolan, RyanBatch Method: 3546 Batch End Date: 04/30/13 12:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00180		
MB 660-136938/1		3546, 8270C LL		15.06 g	1 mL		1 mL		
LCS 660-136938/2		3546, 8270C LL		15.00 g	1 mL	1 mL	1 mL		
680-89695-A-21 MS		3546, 8270C LL	T	14.93 g	1 mL	1 mL	1 mL		
680-89695-A-21 MSD		3546, 8270C LL	T	15.13 g	1 mL	1 mL	1 mL		
680-89791-A-3	HP0232A-CS-SP	3546, 8270C LL	T	15.02 g	1 mL		1 mL		
680-89791-A-4	HP0232B-CS-SP	3546, 8270C LL	T	15.07 g	1 mL		1 mL		
680-89791-A-5	HP0288A-CS-SP	3546, 8270C LL	T	14.95 g	1 mL		1 mL		
680-89791-A-6	CV1342A-CS-SP	3546, 8270C LL	T	14.99 g	1 mL		1 mL		
680-89791-A-7	CV1342B-CS-SP	3546, 8270C LL	T	15.09 g	1 mL		1 mL		
680-89791-A-8	CV1116A-CS	3546, 8270C LL	T	15.02 g	1 mL		1 mL		
680-89791-A-9	CV1116B-CS	3546, 8270C LL	T	14.95 g	1 mL		1 mL		
680-89791-A-10	CV1336A-CS	3546, 8270C LL	T	15.15 g	1 mL		1 mL		
680-89791-A-11	CV1336A-CSD	3546, 8270C LL	T	15.00 g	1 mL		1 mL		
680-89791-A-12	CV1336B-CS	3546, 8270C LL	T	15.09 g	1 mL		1 mL		
680-89791-A-13	CV0790A-CS-SP	3546, 8270C LL	T	14.98 g	1 mL		1 mL		
680-89791-A-14	CV0790B-CS-SP	3546, 8270C LL	T	15.05 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270C LL

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## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1SDG No.: 68089791-1Batch Number: 136938 Batch Start Date: 04/29/13 14:27 Batch Analyst: Nolan, RyanBatch Method: 3546 Batch End Date: 04/30/13 12:30

Batch Notes	
Acetone Lot #	EX-ACETON BOT 52
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 56
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 56
MeCl2/Acetone Lot #	DCM/ACETON 74
Microwave Start Time	16:35 4/29/13
Microwave Stop Time	17:10 4/29/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	EX-OTTOWA SAND 16
Person's name who did the prep	RYAN
SOP Number	TP-EX014
Person who witnessed spiking	SAUREL
Surrogate Lot Number	EXLLSURINT 180
Water Bath ID	TURBOVAP2 #1-3
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1SDG No.: 68089791-1Batch Number: 136958 Batch Start Date: 04/30/13 09:33 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 04/30/13 12:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00180		
MB 660-136958/1		3546, 8270C LL		15.13 g	1 mL		1 mL		
LCS 660-136958/2		3546, 8270C LL		15.31 g	1 mL	1 mL	1 mL		
680-89791-C-2	HP0200B-CS-SP	3546, 8270C LL	T	15.09 g	10 mL		1 mL		
680-89791-C-2 MS	HP0200B-CS-SP	3546, 8270C LL	T	15.00 g	10 mL	1 mL	1 mL		
680-89791-C-2 MSD	HP0200B-CS-SP	3546, 8270C LL	T	15.17 g	10 mL	1 mL	1 mL		

Batch Notes	
Acetone Lot #	EX-ACETON BOT 52
Balance ID	B001
Batch Comment	RUSHES.
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL 56
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCl2 Lot #	EX-MC CYCL 56
MeCl2/Acetone Lot #	DCM/ACETON 75
Microwave Start Time	9:45 4/30/13
Microwave Stop Time	10:24 4/30/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	EX-OTTOWA SAND 16
Person's name who did the prep	SAUREL
SOP Number	TP-EX-014
Person who witnessed spiking	AG
Surrogate Lot Number	EXLLSURINT_00180
Water Bath ID	TURBOVAP2 #1-3
Water Bath Temperature	40 C for all

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1

SDG No.: 68089791-1

Batch Number: 136958 Batch Start Date: 04/30/13 09:33 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 04/30/13 12:50

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1SDG No.: 68089791-1Batch Number: 136975 Batch Start Date: 04/30/13 14:42 Batch Analyst: Nolan, RyanBatch Method: 3546 Batch End Date: 05/01/13 00:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00181		
MB 660-136975/1		3546, 8270C LL		14.95 g	1 mL		1 mL		
LCS 660-136975/2		3546, 8270C LL		14.99 g	1 mL	1 mL	1 mL		
680-89791-A-15	CV0790C-CS-SP	3546, 8270C LL	T	15.10 g	1 mL		1 mL		
680-89791-A-18	CV0121A-CS-SP	3546, 8270C LL	T	14.96 g	1 mL		1 mL		
680-89791-A-19	CV0121B-CS-SP	3546, 8270C LL	T	14.94 g	1 mL		1 mL		
680-89791-A-20	CV0752A-CS-SP	3546, 8270C LL	T	15.02 g	1 mL		1 mL		
680-89791-A-21	CV0752B-CS-SP	3546, 8270C LL	T	15.01 g	1 mL		1 mL		
680-89791-A-22 MS		3546, 8270C LL	T	15.01 g	1 mL	1 mL	1 mL		
680-89791-A-22 MSD		3546, 8270C LL	T	15.00 g	1 mL	1 mL	1 mL		
680-89791-A-23	CV1312A-CS-SP	3546, 8270C LL	T	14.97 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270C LL

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## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1SDG No.: 68089791-1Batch Number: 136975 Batch Start Date: 04/30/13 14:42 Batch Analyst: Nolan, RyanBatch Method: 3546 Batch End Date: 05/01/13 00:00

Batch Notes	
Acetone Lot #	ID:EX-ACETON bot00056
Balance ID	b001
Batch Comment	none
Person's name who did the concentration	Ryan Nolan
Exchange Solvent Lot #	ex-mc cycl 56
Exchange Solvent Name	ddm
Final Concentrator Volume	1ml mL
MeCL2 Lot #	ID:EX-MC CYCL_0056
MeCl2/Acetone Lot #	ID:DCM/Aceton_00070
Microwave Start Time	16:35
Microwave Stop Time	17:10
Na2SO4 Lot Number	ID:EX-NaSO4a-66
Ottawa Sand Lot #	ID:ottawa sand_00017 (1544031)
Person's name who did the prep	Ryan Nolan
SOP Number	EX:TP014
Person who witnessed spiking	Saurel Cerome
Surrogate Lot Number	EX:LLSURINT_00181
Water Bath ID	1-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1SDG No.: 68089791-1Batch Number: 137132 Batch Start Date: 05/06/13 08:14 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 05/06/13 13:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EX-625LVI SPK 00021	EXLLSURINT 00181	
MB 660-137132/1		3546, 8270C LL		15.12 g	1 mL			1 mL	
LCS 660-137132/2		3546, 8270C LL		14.92 g	1 mL		1 mL	1 mL	
680-89791-B-1	HP0200A-CS-SP	3546, 8270C LL	T	15.37 g	10 mL			1 mL	
680-89985-A-3 MS		3546, 8270C LL	T	15.20 g	1 mL		1 mL	1 mL	
680-89985-A-3 MSD		3546, 8270C LL	T	15.20 g	1 mL	1 mL		1 mL	

Batch Notes	
Acetone Lot #	EX-ACETON BOT 52
Balance ID	B001
Batch Comment	RUSH
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL 56
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCl2 Lot #	EX-MC CYCL 56
MeCl2/Acetone Lot #	DCM/ACETON 77
Microwave Start Time	10:50 5/6/13
Microwave Stop Time	11:25 5/6/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	EX-OTTOWA SAND 17
Person's name who did the prep	SAUREL
SOP Number	TP-EX-014
Person who witnessed spiking	RYAN
Surrogate Lot Number	EXLLSURINT_181
Water Bath ID	TURBOVAP2 #1-4
Water Bath Temperature	40

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1

SDG No.: 68089791-1

Batch Number: 137132 Batch Start Date: 05/06/13 08:14 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 05/06/13 13:30

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.



# GENERAL CHEMISTRY

COVER PAGE  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa

Job Number: 680-89791-1

SDG No.: 68089791-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
HP0200A-CS-SP	680-89791-1
HP0200B-CS-SP	680-89791-2
HP0232A-CS-SP	680-89791-3
HP0232B-CS-SP	680-89791-4
HP0288A-CS-SP	680-89791-5
CV1342A-CS-SP	680-89791-6
CV1342B-CS-SP	680-89791-7
CV1116A-CS	680-89791-8
CV1116B-CS	680-89791-9
CV1336A-CS	680-89791-10
CV1336A-CSD	680-89791-11
CV1336B-CS	680-89791-12
CV0790A-CS-SP	680-89791-13
CV0790B-CS-SP	680-89791-14
CV0790C-CS-SP	680-89791-15
CV0121A-CS-SP	680-89791-18
CV0121B-CS-SP	680-89791-19
CV0752A-CS-SP	680-89791-20
CV0752B-CS-SP	680-89791-21
CV1312A-CS-SP	680-89791-23

Comments:

9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa

Job Number: 680-89791-1

SDG Number: 68089791-1

Matrix: Solid

Instrument ID: NOEQUIP

Method: Moisture

RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89791-1  
SDG Number: 68089791-1  
Matrix: Solid Instrument ID: NOEQUIP  
Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	





GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1

SDG No.: 68089791-1

Batch Number: 136953 Batch Start Date: 04/30/13 06:31 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-89791-A-23	CV1312A-CS-SP	Moisture	T	22	0 g	4.53 g	3.67 g		
680-89791-A-15	CV0790C-CS-SP	Moisture	T	26	0 g	4.38 g	3.25 g		
680-89791-A-21	CV0752B-CS-SP	Moisture	T	28	0 g	4.22 g	3.41 g		
680-89791-A-18	CV0121A-CS-SP	Moisture	T	33	0 g	5.06 g	3.74 g		
680-89791-A-19	CV0121B-CS-SP	Moisture	T	46	0 g	4.65 g	3.33 g		
680-89791-A-20	CV0752A-CS-SP	Moisture	T	49	0 g	5.78 g	5.24 g		
680-89791-A-41		Moisture	T	50	0 g	4.39 g	3.30 g		
MS									
680-89791-A-41		Moisture	T	50	0 g	4.39 g	3.30 g		
MSD									
680-89791-C-2	HP0200B-CS-SP	Moisture	T	51	0 g	4.59 g	3.86 g		
680-89791-A-22		Moisture	T	52	0 g	4.94 g	4.20 g		
MS									
680-89791-A-22		Moisture	T	52	0 g	4.94 g	4.20 g		
MSD									
680-89791-B-1	HP0200A-CS-SP	Moisture	T	53	0 g	4.71 g	4.05 g		
680-89791-A-3	HP0232A-CS-SP	Moisture	T	54	0 g	4.66 g	3.76 g		
680-89791-A-4	HP0232B-CS-SP	Moisture	T	55	0 g	4.42 g	3.61 g		
680-89791-A-5	HP0288A-CS-SP	Moisture	T	56	0 g	4.44 g	3.56 g		
680-89791-A-6	CV1342A-CS-SP	Moisture	T	57	0 g	4.72 g	4.08 g		
680-89791-A-9	CV1116B-CS	Moisture	T	58	0 g	4.59 g	3.69 g		
680-89791-A-10	CV1336A-CS	Moisture	T	59	0 g	4.31 g	3.56 g		
680-89791-A-7	CV1342B-CS-SP	Moisture	T	60	0 g	4.65 g	3.77 g		
680-89791-A-12	CV1336B-CS	Moisture	T	61	0 g	4.42 g	3.42 g		
680-89791-A-11	CV1336A-CSD	Moisture	T	62	0 g	4.41 g	3.66 g		
680-89791-A-13	CV0790A-CS-SP	Moisture	T	63	0 g	4.28 g	3.19 g		
680-89791-A-8	CV1116A-CS	Moisture	T	64	0 g	4.52 g	3.60 g		
680-89791-A-14	CV0790B-CS-SP	Moisture	T	65	0 g	4.64 g	3.39 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	4.30.13

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-1

SDG No.: 68089791-1

Batch Number: 136953 Batch Start Date: 04/30/13 06:31 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: \_\_\_\_\_

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture



# Shipping and Receiving Documents

Serial Number 64690

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location  
Test Am - Tampa

Phone: 880-89791  
Fax:

PROJECT REFERENCE 35th Ave Removal	PROJECT NO. 200548-1356	PROJECT LOCATION (STATE) AL	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 1 OF 5
<div style="font-size: 48px; color: red; font-weight: bold;">(b) (6)</div>				LL PAH PAH & Metals PCB PRESERVATIVE	STANDARD REPORT DELIVERY 0 DATE DUE _____ EXPEDITED REPORT DELIVERY (SURCHARGE) 0 10 Calendar Days DATE DUE _____ NUMBER OF COOLERS SUBMITTED PER SHIPMENT:
				COMPANY CONTRACTING THIS WORK (if applicable)	

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS							
DATE	TIME							1	2	3	4	5	6	7	8	9	10		11	12					
4-24	B 1017	HP0200A-CS-SP	C	X			X																		
	1030	HP0200B-CS-SP	C	X			X	X	X																XRF Shows very high levels Pb, Cu.
	0927	HP0232A-CS-SP	C	X			X																		
	0941	HP0232B-CS-SP	C	X			X																		
	0856	HP0288A-CS-SP	C	X			X																		
	1120	CV1342A-CS-SP	C	X			X																		
	1127	CV1342B-CS-SP	C	X			X	X																	
	1025	CV1116A-CS	C	X			X																		
	1025	CV1116B-CS	C	X			X																		
	0920	CV1336A-CS	C	X			X																		
	0920	CV1336A-CSD	C	X			X																		
	0930	CV1336B-CS	C	X			X																		

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 4-26-13	TIME 1130	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY								
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE 4/27/13	TIME 8:25	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS 28,240 CV-07	<i>[Signature]</i>	

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:  
Fax:

680-89791

PROJECT REFERENCE 35th Ave Removal	PROJECT NO. 2005148-1356	PROJECT LOCATION (STATE) AL	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 2 OF 5
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(b) (6)

COMPOSITE (C) OR GRAB (G) INDICATE  
AQUEOUS (WATER)  
SOLID OR SEMISOLID  
AIR  
NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

L.L.P.M.A.  
R.C.A. & Metals

STANDARD REPORT DELIVERY

DATE DUE \_\_\_\_\_

EXPEDITED REPORT DELIVERY (SURCHARGE)

10 Calendar Days STAT  
DATE DUE \_\_\_\_\_

**PRESERVATIVE**

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

COMPANY CONTRACTING THIS WORK (if applicable)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED				REMARKS
DATE	TIME							1	2	3	4	
4-24-13	1341	CV0790A-CS-SP	C	X			X					
	1352	CV0790B-CS-SP	C	X			X					
	1354	CV0790C-CS-SP	C	X			X	X				
	1127	CV1342B-CS-SP (sieve)	C	X				X				
	1354	CV0790C-CS-SP (sieve)	C	X				X				
4-25-13	1058	CV0121A-CS-SP	C	X			X					
	1112	CV0121B-CS-SP	C	X			X					
	0900	CV0752A-CS-SP	C	X			X					
	0913	CV0752B-CS-SP	C	X			X	X				
	0923	CV0752C-CS-SP	G	X			X					
	0950	CV1312A-CS-SP	C	X			X					
	1001	CV1312B-CS-SP	C	X			X					

RELINQUISHED BY: (SIGNATURE) A. Andlin	DATE 4-26-13	TIME 1130	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) Eugene Edging	DATE 4/27/13	TIME 825	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
--	-----------------	-------------	---	------------------	------------------	--------------------

## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89791-1

SDG Number: 68089791-1

Login Number: 89791

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

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

## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89791-1

SDG Number: 68089791-1

**Login Number: 89791**  
**List Number: 1**  
**Creator: Snead, Joshua**

**List Source: TestAmerica Tampa**  
**List Creation: 04/29/13 01:27 PM**

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-89791-1

TestAmerica Sample Delivery Group: 68089791-1

Client Project/Site: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC

1220 Kennestone Circle

Suite 106

Marietta, Georgia 30060

Attn: Ms. Limari F Krebs



Authorized for release by:

5/8/2013 2:54:28 PM

Bernard Kirkland, Project Manager I

[bernard.kirkland@testamericainc.com](mailto:bernard.kirkland@testamericainc.com)

Designee for

Lisa Harvey, Project Manager II

[lisa.harvey@testamericainc.com](mailto:lisa.harvey@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
SDG: 68089791-1

**Job ID: 680-89791-1**

**Laboratory: TestAmerica Savannah**

**Narrative**

## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-89791-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

### RECEIPT

The samples were received on 04/27/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.4° C and 2.8° C.

### SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples HP0200A-CS-SP (680-89791-1), HP0200B-CS-SP (680-89791-2), HP0232A-CS-SP (680-89791-3), HP0232B-CS-SP (680-89791-4), HP0288A-CS-SP (680-89791-5), CV1342A-CS-SP (680-89791-6), CV1342B-CS-SP (680-89791-7), CV1116A-CS (680-89791-8), CV1116B-CS (680-89791-9), CV1336A-CS (680-89791-10), CV1336A-CSD (680-89791-11), CV1336B-CS (680-89791-12), CV0790A-CS-SP (680-89791-13), CV0790B-CS-SP (680-89791-14), CV0790C-CS-SP (680-89791-15), CV0121A-CS-SP (680-89791-18), CV0121B-CS-SP (680-89791-19), CV0752A-CS-SP (680-89791-20), CV0752B-CS-SP (680-89791-21) and CV1312A-CS-SP (680-89791-23) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/29/2013, 04/30/2013 and 05/06/2013 and analyzed on 04/30/2013, 05/01/2013, 05/02/2013 and 05/06/2013.

Samples CV1342B-CS-SP (680-89791-7)[4X], CV1116A-CS (680-89791-8)[4X], CV0790A-CS-SP (680-89791-13)[4X], CV0790B-CS-SP (680-89791-14)[4X], CV0121A-CS-SP (680-89791-18)[4X] and CV0752B-CS-SP (680-89791-21)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

o-Terphenyl recovered outside the surrogate recovery criteria for HP0200B-CS-SP (680-89791-2) and its associated MS/MSD.

Benzo[a]pyrene, Chrysene, Fluoranthene and Pyrene recovered outside the recovery criteria for the MSD of sample 680-89695-21 in batch 660-137001. Fluoranthene and Pyrene exceeded the rpd limit.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample HP0200B-CS-SP (680-89791-2) in batch 660-136977. Several analytes also exceeded the rpd limit.

Benzo[a]pyrene recovered outside the recovery criteria for the MSD of sample 680-89791-22 in batch 660-137070.

Several analytes recovered outside the recovery criteria for the MSD of sample 680-89985-3 in batch 660-137156. Several analytes also exceeded the rpd limit.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

# Sample Summary

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
SDG: 68089791-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89791-1	HP0200A-CS-SP	Solid	04/24/13 10:17	04/27/13 08:25
680-89791-2	HP0200B-CS-SP	Solid	04/24/13 10:30	04/27/13 08:25
680-89791-3	HP0232A-CS-SP	Solid	04/24/13 09:27	04/27/13 08:25
680-89791-4	HP0232B-CS-SP	Solid	04/24/13 09:41	04/27/13 08:25
680-89791-5	HP0288A-CS-SP	Solid	04/24/13 08:56	04/27/13 08:25
680-89791-6	CV1342A-CS-SP	Solid	04/24/13 11:20	04/27/13 08:25
680-89791-7	CV1342B-CS-SP	Solid	04/24/13 11:27	04/27/13 08:25
680-89791-8	CV1116A-CS	Solid	04/24/13 10:25	04/27/13 08:25
680-89791-9	CV1116B-CS	Solid	04/24/13 10:25	04/27/13 08:25
680-89791-10	CV1336A-CS	Solid	04/24/13 09:20	04/27/13 08:25
680-89791-11	CV1336A-CSD	Solid	04/24/13 09:20	04/27/13 08:25
680-89791-12	CV1336B-CS	Solid	04/24/13 09:30	04/27/13 08:25
680-89791-13	CV0790A-CS-SP	Solid	04/24/13 13:41	04/27/13 08:25
680-89791-14	CV0790B-CS-SP	Solid	04/24/13 13:52	04/27/13 08:25
680-89791-15	CV0790C-CS-SP	Solid	04/24/13 13:54	04/27/13 08:25
680-89791-18	CV0121A-CS-SP	Solid	04/25/13 10:58	04/27/13 08:25
680-89791-19	CV0121B-CS-SP	Solid	04/25/13 11:12	04/27/13 08:25
680-89791-20	CV0752A-CS-SP	Solid	04/25/13 09:00	04/27/13 08:25
680-89791-21	CV0752B-CS-SP	Solid	04/25/13 09:13	04/27/13 08:25
680-89791-23	CV1312A-CS-SP	Solid	04/25/13 09:50	04/27/13 08:25



# Method Summary

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
SDG: 68089791-1

Method	Method Description	Protocol	Laboratory
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL TAM
Moisture	Percent Moisture	EPA	TAL TAM

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

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## Definitions/Glossary

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
SDG: 68089791-1

### Qualifiers

#### GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
X	Surrogate is outside control limits

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

**Client Sample ID: HP0200A-CS-SP**

**Lab Sample ID: 680-89791-1**

Date Collected: 04/24/13 10:17

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 86.0

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1100	U	1100	230	ug/Kg	☼	05/06/13 08:14	05/06/13 21:43	1
Acenaphthylene	450	U	450	57	ug/Kg	☼	05/06/13 08:14	05/06/13 21:43	1
Anthracene	95	U	95	48	ug/Kg	☼	05/06/13 08:14	05/06/13 21:43	1
<b>Benzo[a]anthracene</b>	<b>94</b>		91	44	ug/Kg	☼	05/06/13 08:14	05/06/13 21:43	1
Benzo[a]pyrene	120	U	120	59	ug/Kg	☼	05/06/13 08:14	05/06/13 21:43	1
Benzo[b]fluoranthene	140	U	140	69	ug/Kg	☼	05/06/13 08:14	05/06/13 21:43	1
<b>Benzo[g,h,i]perylene</b>	<b>84</b>	<b>J</b>	230	50	ug/Kg	☼	05/06/13 08:14	05/06/13 21:43	1
Benzo[k]fluoranthene	91	U	91	41	ug/Kg	☼	05/06/13 08:14	05/06/13 21:43	1
<b>Chrysene</b>	<b>130</b>		100	51	ug/Kg	☼	05/06/13 08:14	05/06/13 21:43	1
Dibenz(a,h)anthracene	230	U	230	47	ug/Kg	☼	05/06/13 08:14	05/06/13 21:43	1
<b>Fluoranthene</b>	<b>90</b>	<b>J</b>	230	45	ug/Kg	☼	05/06/13 08:14	05/06/13 21:43	1
<b>Fluorene</b>	<b>260</b>		230	47	ug/Kg	☼	05/06/13 08:14	05/06/13 21:43	1
Indeno[1,2,3-cd]pyrene	230	U	230	81	ug/Kg	☼	05/06/13 08:14	05/06/13 21:43	1
1-Methylnaphthalene	450	U	450	50	ug/Kg	☼	05/06/13 08:14	05/06/13 21:43	1
<b>2-Methylnaphthalene</b>	<b>110</b>	<b>J</b>	450	81	ug/Kg	☼	05/06/13 08:14	05/06/13 21:43	1
<b>Naphthalene</b>	<b>1300</b>		450	50	ug/Kg	☼	05/06/13 08:14	05/06/13 21:43	1
<b>Phenanthrene</b>	<b>230</b>		91	44	ug/Kg	☼	05/06/13 08:14	05/06/13 21:43	1
<b>Pyrene</b>	<b>120</b>	<b>J</b>	230	42	ug/Kg	☼	05/06/13 08:14	05/06/13 21:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	38		30 - 130	05/06/13 08:14	05/06/13 21:43	1

**Client Sample ID: HP0200B-CS-SP**

**Lab Sample ID: 680-89791-2**

Date Collected: 04/24/13 10:30

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 84.1

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1200	U F	1200	240	ug/Kg	☼	04/30/13 09:33	04/30/13 16:12	1
Acenaphthylene	470	U F	470	59	ug/Kg	☼	04/30/13 09:33	04/30/13 16:12	1
Anthracene	99	U F	99	50	ug/Kg	☼	04/30/13 09:33	04/30/13 16:12	1
Benzo[a]anthracene	95	U F	95	46	ug/Kg	☼	04/30/13 09:33	04/30/13 16:12	1
Benzo[a]pyrene	120	U F	120	61	ug/Kg	☼	04/30/13 09:33	04/30/13 16:12	1
<b>Benzo[b]fluoranthene</b>	<b>72</b>	<b>J F</b>	140	72	ug/Kg	☼	04/30/13 09:33	04/30/13 16:12	1
<b>Benzo[g,h,i]perylene</b>	<b>76</b>	<b>J F</b>	240	52	ug/Kg	☼	04/30/13 09:33	04/30/13 16:12	1
Benzo[k]fluoranthene	95	U F	95	43	ug/Kg	☼	04/30/13 09:33	04/30/13 16:12	1
<b>Chrysene</b>	<b>120</b>	<b>F</b>	110	53	ug/Kg	☼	04/30/13 09:33	04/30/13 16:12	1
Dibenz(a,h)anthracene	240	U F	240	48	ug/Kg	☼	04/30/13 09:33	04/30/13 16:12	1
<b>Fluoranthene</b>	<b>76</b>	<b>J F</b>	240	47	ug/Kg	☼	04/30/13 09:33	04/30/13 16:12	1
<b>Fluorene</b>	<b>110</b>	<b>J F</b>	240	48	ug/Kg	☼	04/30/13 09:33	04/30/13 16:12	1
Indeno[1,2,3-cd]pyrene	240	U F	240	84	ug/Kg	☼	04/30/13 09:33	04/30/13 16:12	1
1-Methylnaphthalene	470	U F	470	52	ug/Kg	☼	04/30/13 09:33	04/30/13 16:12	1
2-Methylnaphthalene	470	U F	470	84	ug/Kg	☼	04/30/13 09:33	04/30/13 16:12	1
<b>Naphthalene</b>	<b>1400</b>	<b>F</b>	470	52	ug/Kg	☼	04/30/13 09:33	04/30/13 16:12	1
<b>Phenanthrene</b>	<b>190</b>	<b>F</b>	95	46	ug/Kg	☼	04/30/13 09:33	04/30/13 16:12	1
<b>Pyrene</b>	<b>78</b>	<b>J F</b>	240	44	ug/Kg	☼	04/30/13 09:33	04/30/13 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	28	X	30 - 130	04/30/13 09:33	04/30/13 16:12	1

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

**Client Sample ID: HP0232A-CS-SP**

**Lab Sample ID: 680-89791-3**

Date Collected: 04/24/13 09:27

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 80.7

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Acenaphthylene	11	J	50	6.2	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Anthracene	17		10	5.2	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Benzo[a]anthracene	62		9.9	4.8	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Benzo[a]pyrene	54		13	6.4	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Benzo[b]fluoranthene	100		15	7.6	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Benzo[g,h,i]perylene	42		25	5.4	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Benzo[k]fluoranthene	30		9.9	4.5	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Chrysene	96		11	5.6	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Dibenz(a,h)anthracene	13	J	25	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Fluoranthene	92		25	5.0	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Fluorene	8.8	J	25	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Indeno[1,2,3-cd]pyrene	38		25	8.8	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
1-Methylnaphthalene	56		50	5.4	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
2-Methylnaphthalene	64		50	8.8	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Naphthalene	71		50	5.4	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Phenanthrene	110		9.9	4.8	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
Pyrene	73		25	4.6	ug/Kg	☼	04/29/13 14:27	05/01/13 18:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	46		30 - 130				04/29/13 14:27	05/01/13 18:03	1

**Client Sample ID: HP0232B-CS-SP**

**Lab Sample ID: 680-89791-4**

Date Collected: 04/24/13 09:41

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 81.7

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Acenaphthylene	17	J	49	6.1	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Anthracene	81		10	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Benzo[a]anthracene	140		9.7	4.8	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Benzo[a]pyrene	120		13	6.3	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Benzo[b]fluoranthene	190		15	7.4	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Benzo[g,h,i]perylene	79		24	5.4	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Benzo[k]fluoranthene	67		9.7	4.4	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Chrysene	160		11	5.5	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Dibenz(a,h)anthracene	27		24	5.0	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Fluoranthene	310		24	4.9	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Fluorene	32		24	5.0	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Indeno[1,2,3-cd]pyrene	82		24	8.7	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
1-Methylnaphthalene	66		49	5.4	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
2-Methylnaphthalene	79		49	8.7	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Naphthalene	86		49	5.4	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Phenanthrene	300		9.7	4.8	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
Pyrene	200		24	4.5	ug/Kg	☼	04/29/13 14:27	05/01/13 18:18	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	58		30 - 130				04/29/13 14:27	05/01/13 18:18	1

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
SDG: 68089791-1

Client Sample ID: HP0288A-CS-SP

Lab Sample ID: 680-89791-5

Date Collected: 04/24/13 08:56

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 80.2

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Acenaphthylene	26	J	50	6.3	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Anthracene	39		11	5.3	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Benzo[a]anthracene	97		10	4.9	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Benzo[a]pyrene	97		13	6.5	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Benzo[b]fluoranthene	170		15	7.6	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Benzo[g,h,i]perylene	70		25	5.5	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Benzo[k]fluoranthene	66		10	4.5	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Chrysene	140		11	5.6	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Dibenz(a,h)anthracene	19	J	25	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Fluoranthene	150		25	5.0	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Fluorene	13	J	25	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Indeno[1,2,3-cd]pyrene	75		25	8.9	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
1-Methylnaphthalene	50		50	5.5	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
2-Methylnaphthalene	64		50	8.9	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Naphthalene	90		50	5.5	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Phenanthrene	120		10	4.9	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
Pyrene	110		25	4.6	ug/Kg	☼	04/29/13 14:27	05/01/13 18:33	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	51		30 - 130				04/29/13 14:27	05/01/13 18:33	1

Client Sample ID: CV1342A-CS-SP

Lab Sample ID: 680-89791-6

Date Collected: 04/24/13 11:20

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 86.4

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	58	J	120	23	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Acenaphthylene	37	J	46	5.8	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Anthracene	320		9.7	4.9	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Benzo[a]anthracene	1600		9.3	4.5	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Benzo[a]pyrene	1500		12	6.0	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Benzo[b]fluoranthene	2200		14	7.1	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Benzo[g,h,i]perylene	980		23	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Benzo[k]fluoranthene	660		9.3	4.2	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Chrysene	1400		10	5.2	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Dibenz(a,h)anthracene	380		23	4.7	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Fluoranthene	3300		23	4.6	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Fluorene	58		23	4.7	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Indeno[1,2,3-cd]pyrene	1000		23	8.2	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
1-Methylnaphthalene	140		46	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
2-Methylnaphthalene	190		46	8.2	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Naphthalene	140		46	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Phenanthrene	1700		9.3	4.5	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
Pyrene	2400		23	4.3	ug/Kg	☼	04/29/13 14:27	05/01/13 18:48	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	55		30 - 130				04/29/13 14:27	05/01/13 18:48	1

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

**Client Sample ID: CV1342B-CS-SP**

**Lab Sample ID: 680-89791-7**

Date Collected: 04/24/13 11:27

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 81.1

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
Acenaphthylene	56	J	200	25	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
Anthracene	310		41	21	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
Benzo[a]anthracene	860		39	19	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
Benzo[a]pyrene	760		51	26	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
Benzo[b]fluoranthene	1200		60	30	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
Benzo[g,h,i]perylene	450		98	22	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
Benzo[k]fluoranthene	470		39	18	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
Chrysene	1000		44	22	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
Dibenz(a,h)anthracene	160		98	20	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
Fluoranthene	2100		98	20	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
Fluorene	100		98	20	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
Indeno[1,2,3-cd]pyrene	510		98	35	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
1-Methylnaphthalene	170	J	200	22	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
2-Methylnaphthalene	210		200	35	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
Naphthalene	170	J	200	22	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
Phenanthrene	1700		39	19	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
Pyrene	1300		98	18	ug/Kg	☼	04/29/13 14:27	05/01/13 19:03	4
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	50		30 - 130				04/29/13 14:27	05/01/13 19:03	4

**Client Sample ID: CV1116A-CS**

**Lab Sample ID: 680-89791-8**

Date Collected: 04/24/13 10:25

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 79.6

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
Acenaphthylene	30	J	200	25	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
Anthracene	40	J	42	21	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
Benzo[a]anthracene	130		40	20	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
Benzo[a]pyrene	88		52	26	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
Benzo[b]fluoranthene	170		61	31	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
Benzo[g,h,i]perylene	59	J	100	22	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
Benzo[k]fluoranthene	39	J	40	18	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
Chrysene	140		45	23	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
Dibenz(a,h)anthracene	100	U	100	21	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
Fluoranthene	150		100	20	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
Fluorene	100	U	100	21	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
Indeno[1,2,3-cd]pyrene	67	J	100	36	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
1-Methylnaphthalene	68	J	200	22	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
2-Methylnaphthalene	120	J	200	36	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
Naphthalene	86	J	200	22	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
Phenanthrene	150		40	20	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
Pyrene	110		100	19	ug/Kg	☼	04/29/13 14:27	05/01/13 19:18	4
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	50		30 - 130				04/29/13 14:27	05/01/13 19:18	4

TestAmerica Savannah

## Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
SDG: 68089791-1

**Client Sample ID: CV1116B-CS**

**Lab Sample ID: 680-89791-9**

Date Collected: 04/24/13 10:25

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 80.4

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Acenaphthylene</b>	<b>18</b>	<b>J</b>	50	6.2	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Anthracene</b>	<b>23</b>		10	5.2	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Benzo[a]anthracene</b>	<b>59</b>		10	4.9	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Benzo[a]pyrene</b>	<b>53</b>		13	6.5	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Benzo[b]fluoranthene</b>	<b>100</b>		15	7.6	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Benzo[g,h,i]perylene</b>	<b>42</b>		25	5.5	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Benzo[k]fluoranthene</b>	<b>29</b>		10	4.5	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Chrysene</b>	<b>69</b>		11	5.6	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Dibenz(a,h)anthracene</b>	<b>11</b>	<b>J</b>	25	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Fluoranthene</b>	<b>95</b>		25	5.0	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
Fluorene	25	U	25	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>41</b>		25	8.9	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>1-Methylnaphthalene</b>	<b>17</b>	<b>J</b>	50	5.5	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>2-Methylnaphthalene</b>	<b>24</b>	<b>J</b>	50	8.9	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Naphthalene</b>	<b>30</b>	<b>J</b>	50	5.5	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Phenanthrene</b>	<b>63</b>		10	4.9	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Pyrene</b>	<b>63</b>		25	4.6	ug/Kg	☼	04/29/13 14:27	05/01/13 19:33	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	36		30 - 130				04/29/13 14:27	05/01/13 19:33	1

**Client Sample ID: CV1336A-CS**

**Lab Sample ID: 680-89791-10**

Date Collected: 04/24/13 09:20

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 82.6

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Acenaphthylene</b>	<b>14</b>	<b>J</b>	48	6.0	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Anthracene</b>	<b>22</b>		10	5.0	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Benzo[a]anthracene</b>	<b>82</b>		9.6	4.7	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Benzo[a]pyrene</b>	<b>83</b>		12	6.2	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Benzo[b]fluoranthene</b>	<b>140</b>		15	7.3	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Benzo[g,h,i]perylene</b>	<b>59</b>		24	5.3	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Benzo[k]fluoranthene</b>	<b>47</b>		9.6	4.3	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Chrysene</b>	<b>110</b>		11	5.4	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Dibenz(a,h)anthracene</b>	<b>17</b>	<b>J</b>	24	4.9	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Fluoranthene</b>	<b>120</b>		24	4.8	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Fluorene</b>	<b>5.1</b>	<b>J</b>	24	4.9	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>58</b>		24	8.5	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>1-Methylnaphthalene</b>	<b>35</b>	<b>J</b>	48	5.3	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>2-Methylnaphthalene</b>	<b>41</b>	<b>J</b>	48	8.5	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Naphthalene</b>	<b>41</b>	<b>J</b>	48	5.3	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Phenanthrene</b>	<b>79</b>		9.6	4.7	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Pyrene</b>	<b>88</b>		24	4.4	ug/Kg	☼	04/29/13 14:27	05/01/13 19:48	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	56		30 - 130				04/29/13 14:27	05/01/13 19:48	1

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

**Client Sample ID: CV1336A-CSD**

**Lab Sample ID: 680-89791-11**

Date Collected: 04/24/13 09:20

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 83.0

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
Acenaphthylene	18	J	48	6.0	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
Anthracene	25		10	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
Benzo[a]anthracene	97		9.6	4.7	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
Benzo[a]pyrene	110		13	6.3	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
Benzo[b]fluoranthene	190		15	7.4	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
Benzo[g,h,i]perylene	76		24	5.3	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
Benzo[k]fluoranthene	49		9.6	4.3	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
Chrysene	140		11	5.4	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
Dibenz(a,h)anthracene	17	J	24	4.9	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
Fluoranthene	150		24	4.8	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
Fluorene	5.5	J	24	4.9	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
Indeno[1,2,3-cd]pyrene	75		24	8.6	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
1-Methylnaphthalene	41	J	48	5.3	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
2-Methylnaphthalene	52		48	8.6	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
Naphthalene	47	J	48	5.3	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
Phenanthrene	95		9.6	4.7	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
Pyrene	110		24	4.5	ug/Kg	☼	04/29/13 14:27	05/01/13 20:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	58		30 - 130				04/29/13 14:27	05/01/13 20:03	1

**Client Sample ID: CV1336B-CS**

**Lab Sample ID: 680-89791-12**

Date Collected: 04/24/13 09:30

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 77.4

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
Acenaphthylene	40	J	51	6.4	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
Anthracene	60		11	5.4	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
Benzo[a]anthracene	190		10	5.0	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
Benzo[a]pyrene	190		13	6.7	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
Benzo[b]fluoranthene	290		16	7.8	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
Benzo[g,h,i]perylene	120		26	5.7	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
Benzo[k]fluoranthene	140		10	4.6	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
Chrysene	240		12	5.8	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
Dibenz(a,h)anthracene	48		26	5.3	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
Fluoranthene	340		26	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
Fluorene	15	J	26	5.3	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
Indeno[1,2,3-cd]pyrene	130		26	9.1	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
1-Methylnaphthalene	77		51	5.7	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
2-Methylnaphthalene	94		51	9.1	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
Naphthalene	85		51	5.7	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
Phenanthrene	230		10	5.0	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
Pyrene	230		26	4.8	ug/Kg	☼	04/29/13 14:27	05/01/13 20:18	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	61		30 - 130				04/29/13 14:27	05/01/13 20:18	1

TestAmerica Savannah



# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

**Client Sample ID: CV0790A-CS-SP**

**Lab Sample ID: 680-89791-13**

Date Collected: 04/24/13 13:41

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 74.5

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Acenaphthylene</b>	<b>46</b>	<b>J</b>	210	27	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Anthracene</b>	<b>71</b>		45	23	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Benzo[a]anthracene</b>	<b>230</b>		43	21	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Benzo[a]pyrene</b>	<b>160</b>		56	28	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Benzo[b]fluoranthene</b>	<b>280</b>		66	33	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Benzo[g,h,i]perylene</b>	<b>110</b>		110	24	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Benzo[k]fluoranthene</b>	<b>82</b>		43	19	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Chrysene</b>	<b>270</b>		48	24	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Dibenz(a,h)anthracene</b>	<b>32</b>	<b>J</b>	110	22	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Fluoranthene</b>	<b>310</b>		110	21	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Fluorene</b>	<b>29</b>	<b>J</b>	110	22	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>95</b>	<b>J</b>	110	38	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>1-Methylnaphthalene</b>	<b>340</b>		210	24	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>2-Methylnaphthalene</b>	<b>370</b>		210	38	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Naphthalene</b>	<b>320</b>		210	24	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Phenanthrene</b>	<b>390</b>		43	21	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Pyrene</b>	<b>220</b>		110	20	ug/Kg	☼	04/29/13 14:27	05/01/13 20:33	4
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	51		30 - 130				04/29/13 14:27	05/01/13 20:33	4

**Client Sample ID: CV0790B-CS-SP**

**Lab Sample ID: 680-89791-14**

Date Collected: 04/24/13 13:52

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 73.1

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	550	U	550	110	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Acenaphthylene</b>	<b>62</b>	<b>J</b>	220	27	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Anthracene</b>	<b>95</b>		46	23	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Benzo[a]anthracene</b>	<b>210</b>		44	21	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Benzo[a]pyrene</b>	<b>160</b>		57	28	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Benzo[b]fluoranthene</b>	<b>260</b>		67	33	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Benzo[g,h,i]perylene</b>	<b>95</b>	<b>J</b>	110	24	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Benzo[k]fluoranthene</b>	<b>140</b>		44	20	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Chrysene</b>	<b>230</b>		49	25	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Dibenz(a,h)anthracene</b>	<b>110</b>	<b>U</b>	110	22	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Fluoranthene</b>	<b>250</b>		110	22	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Fluorene</b>	<b>24</b>	<b>J</b>	110	22	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>91</b>	<b>J</b>	110	39	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>1-Methylnaphthalene</b>	<b>180</b>	<b>J</b>	220	24	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>2-Methylnaphthalene</b>	<b>180</b>	<b>J</b>	220	39	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Naphthalene</b>	<b>130</b>	<b>J</b>	220	24	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Phenanthrene</b>	<b>220</b>		44	21	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Pyrene</b>	<b>180</b>		110	20	ug/Kg	☼	04/29/13 14:27	05/01/13 20:48	4
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	47		30 - 130				04/29/13 14:27	05/01/13 20:48	4

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

**Client Sample ID: CV0790C-CS-SP**

**Lab Sample ID: 680-89791-15**

Date Collected: 04/24/13 13:54

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 74.2

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Acenaphthylene	54		54	6.7	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Anthracene	76		11	5.6	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Benzo[a]anthracene	170		11	5.2	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Benzo[a]pyrene	170		14	7.0	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Benzo[b]fluoranthene	300		16	8.2	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Benzo[g,h,i]perylene	160		27	5.9	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Benzo[k]fluoranthene	90		11	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Chrysene	260		12	6.0	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Dibenz(a,h)anthracene	48		27	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Fluoranthene	270		27	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Fluorene	26	J	27	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Indeno[1,2,3-cd]pyrene	140		27	9.5	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
1-Methylnaphthalene	180		54	5.9	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
2-Methylnaphthalene	220		54	9.5	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Naphthalene	170		54	5.9	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Phenanthrene	350		11	5.2	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
Pyrene	280		27	5.0	ug/Kg	☼	04/30/13 14:42	05/02/13 17:57	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	50		30 - 130				04/30/13 14:42	05/02/13 17:57	1

**Client Sample ID: CV0121A-CS-SP**

**Lab Sample ID: 680-89791-18**

Date Collected: 04/25/13 10:58

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 73.9

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Acenaphthylene	220	U	220	27	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Anthracene	67		46	23	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Benzo[a]anthracene	270		43	21	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Benzo[a]pyrene	160		56	28	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Benzo[b]fluoranthene	290		66	33	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Benzo[g,h,i]perylene	160		110	24	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Benzo[k]fluoranthene	110		43	20	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Chrysene	300		49	24	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Dibenz(a,h)anthracene	46	J	110	22	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Fluoranthene	270		110	22	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Fluorene	27	J	110	22	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Indeno[1,2,3-cd]pyrene	130		110	39	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
1-Methylnaphthalene	240		220	24	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
2-Methylnaphthalene	300		220	39	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Naphthalene	220		220	24	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Phenanthrene	380		43	21	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
Pyrene	310		110	20	ug/Kg	☼	04/30/13 14:42	05/02/13 18:12	4
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	45		30 - 130				04/30/13 14:42	05/02/13 18:12	4

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

**Client Sample ID: CV0121B-CS-SP**

**Lab Sample ID: 680-89791-19**

Date Collected: 04/25/13 11:12

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 71.6

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Acenaphthylene</b>	<b>36</b>	<b>J</b>	56	7.0	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Anthracene</b>	<b>57</b>		12	5.9	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Benzo[a]anthracene</b>	<b>160</b>		11	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Benzo[a]pyrene</b>	<b>130</b>		15	7.3	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Benzo[b]fluoranthene</b>	<b>210</b>		17	8.6	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Benzo[g,h,i]perylene</b>	<b>99</b>		28	6.2	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Benzo[k]fluoranthene</b>	<b>85</b>		11	5.0	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Chrysene</b>	<b>210</b>		13	6.3	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Dibenz(a,h)anthracene</b>	<b>36</b>		28	5.7	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Fluoranthene</b>	<b>190</b>		28	5.6	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Fluorene</b>	<b>19</b>	<b>J</b>	28	5.7	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>86</b>		28	10	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>1-Methylnaphthalene</b>	<b>320</b>		56	6.2	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>2-Methylnaphthalene</b>	<b>340</b>		56	10	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Naphthalene</b>	<b>250</b>		56	6.2	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Phenanthrene</b>	<b>300</b>		11	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Pyrene</b>	<b>200</b>		28	5.2	ug/Kg	☼	04/30/13 14:42	05/02/13 18:27	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	43		30 - 130				04/30/13 14:42	05/02/13 18:27	1

**Client Sample ID: CV0752A-CS-SP**

**Lab Sample ID: 680-89791-20**

Date Collected: 04/25/13 09:00

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 90.7

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Acenaphthylene</b>	<b>6.3</b>	<b>J</b>	44	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Anthracene</b>	<b>11</b>		9.3	4.6	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Benzo[a]anthracene</b>	<b>40</b>		8.8	4.3	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Benzo[a]pyrene</b>	<b>31</b>		11	5.7	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Benzo[b]fluoranthene</b>	<b>54</b>		13	6.7	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Benzo[g,h,i]perylene</b>	<b>41</b>		22	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Benzo[k]fluoranthene</b>	<b>26</b>		8.8	4.0	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Chrysene</b>	<b>47</b>		9.9	5.0	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Dibenz(a,h)anthracene</b>	<b>7.1</b>	<b>J</b>	22	4.5	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Fluoranthene</b>	<b>42</b>		22	4.4	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
Fluorene	22	U	22	4.5	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>35</b>		22	7.8	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>1-Methylnaphthalene</b>	<b>15</b>	<b>J</b>	44	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>2-Methylnaphthalene</b>	<b>22</b>	<b>J</b>	44	7.8	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Naphthalene</b>	<b>20</b>	<b>J</b>	44	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Phenanthrene</b>	<b>37</b>		8.8	4.3	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Pyrene</b>	<b>48</b>		22	4.1	ug/Kg	☼	04/30/13 14:42	05/02/13 18:42	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	42		30 - 130				04/30/13 14:42	05/02/13 18:42	1

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

**Client Sample ID: CV0752B-CS-SP**

**Lab Sample ID: 680-89791-21**

Date Collected: 04/25/13 09:13

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 80.8

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	99	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Acenaphthylene</b>	<b>110</b>	<b>J</b>	200	25	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Anthracene</b>	<b>160</b>		42	21	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Benzo[a]anthracene</b>	<b>430</b>		40	19	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Benzo[a]pyrene</b>	<b>410</b>		51	26	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Benzo[b]fluoranthene</b>	<b>710</b>		60	30	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Benzo[g,h,i]perylene</b>	<b>370</b>		99	22	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Benzo[k]fluoranthene</b>	<b>360</b>		40	18	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Chrysene</b>	<b>520</b>		45	22	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Dibenz(a,h)anthracene</b>	<b>140</b>		99	20	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Fluoranthene</b>	<b>450</b>		99	20	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Fluorene</b>	<b>43</b>	<b>J</b>	99	20	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>360</b>		99	35	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>1-Methylnaphthalene</b>	<b>240</b>		200	22	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>2-Methylnaphthalene</b>	<b>240</b>		200	35	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Naphthalene</b>	<b>260</b>		200	22	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Phenanthrene</b>	<b>510</b>		40	19	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Pyrene</b>	<b>480</b>		99	18	ug/Kg	☼	04/30/13 14:42	05/02/13 18:57	4
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	61		30 - 130				04/30/13 14:42	05/02/13 18:57	4

**Client Sample ID: CV1312A-CS-SP**

**Lab Sample ID: 680-89791-23**

Date Collected: 04/25/13 09:50

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 81.0

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Acenaphthylene</b>	<b>26</b>	<b>J</b>	49	6.2	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Anthracene</b>	<b>78</b>		10	5.2	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Benzo[a]anthracene</b>	<b>300</b>		9.9	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Benzo[a]pyrene</b>	<b>270</b>		13	6.4	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Benzo[b]fluoranthene</b>	<b>420</b>		15	7.5	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Benzo[g,h,i]perylene</b>	<b>210</b>		25	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Benzo[k]fluoranthene</b>	<b>190</b>		9.9	4.5	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Chrysene</b>	<b>400</b>		11	5.6	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Dibenz(a,h)anthracene</b>	<b>77</b>		25	5.1	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Fluoranthene</b>	<b>400</b>		25	4.9	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Fluorene</b>	<b>20</b>	<b>J</b>	25	5.1	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>200</b>		25	8.8	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>1-Methylnaphthalene</b>	<b>150</b>		49	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>2-Methylnaphthalene</b>	<b>180</b>		49	8.8	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Naphthalene</b>	<b>140</b>		49	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Phenanthrene</b>	<b>350</b>		9.9	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Pyrene</b>	<b>340</b>		25	4.6	ug/Kg	☼	04/30/13 14:42	05/02/13 19:57	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	58		30 - 130				04/30/13 14:42	05/02/13 19:57	1

TestAmerica Savannah

# QC Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

**Lab Sample ID: MB 660-136938/1-A**

**Matrix: Solid**

**Analysis Batch: 137001**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 136938**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Acenaphthylene	40	U	40	5.0	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Fluorene	20	U	20	4.1	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Naphthalene	40	U	40	4.4	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Pyrene	20	U	20	3.7	ug/Kg		04/29/13 14:27	05/01/13 14:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	84		30 - 130	04/29/13 14:27	05/01/13 14:46	1

**Lab Sample ID: LCS 660-136938/2-A**

**Matrix: Solid**

**Analysis Batch: 137001**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 136938**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	667	453		ug/Kg		68	39 - 130
Acenaphthylene	667	466		ug/Kg		70	38 - 130
Anthracene	667	487		ug/Kg		73	37 - 130
Benzo[a]anthracene	667	509		ug/Kg		76	40 - 130
Benzo[a]pyrene	667	496		ug/Kg		74	49 - 130
Benzo[b]fluoranthene	667	523		ug/Kg		78	37 - 130
Benzo[g,h,i]perylene	667	525		ug/Kg		79	32 - 130
Benzo[k]fluoranthene	667	516		ug/Kg		77	32 - 130
Chrysene	667	484		ug/Kg		73	41 - 130
Dibenz(a,h)anthracene	667	593		ug/Kg		89	27 - 130
Fluoranthene	667	524		ug/Kg		79	40 - 130
Fluorene	667	485		ug/Kg		73	40 - 130
Indeno[1,2,3-cd]pyrene	667	560		ug/Kg		84	30 - 130
1-Methylnaphthalene	667	530		ug/Kg		79	31 - 130
2-Methylnaphthalene	667	505		ug/Kg		76	33 - 130
Naphthalene	667	497		ug/Kg		75	36 - 130
Phenanthrene	667	471		ug/Kg		71	42 - 130
Pyrene	667	484		ug/Kg		73	44 - 130

TestAmerica Savannah

# QC Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

**Lab Sample ID: LCS 660-136938/2-A**  
**Matrix: Solid**  
**Analysis Batch: 137001**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 136938**

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	71		30 - 130

**Lab Sample ID: MB 660-136958/1-A**  
**Matrix: Solid**  
**Analysis Batch: 136977**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 136958**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	99	U	99	20	ug/Kg		04/30/13 09:33	04/30/13 13:13	1
Acenaphthylene	40	U	40	5.0	ug/Kg		04/30/13 09:33	04/30/13 13:13	1
Anthracene	8.3	U	8.3	4.2	ug/Kg		04/30/13 09:33	04/30/13 13:13	1
Benzo[a]anthracene	7.9	U	7.9	3.9	ug/Kg		04/30/13 09:33	04/30/13 13:13	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		04/30/13 09:33	04/30/13 13:13	1
Benzo[b]fluoranthene	12	U	12	6.0	ug/Kg		04/30/13 09:33	04/30/13 13:13	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/30/13 09:33	04/30/13 13:13	1
Benzo[k]fluoranthene	7.9	U	7.9	3.6	ug/Kg		04/30/13 09:33	04/30/13 13:13	1
Chrysene	8.9	U	8.9	4.5	ug/Kg		04/30/13 09:33	04/30/13 13:13	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		04/30/13 09:33	04/30/13 13:13	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/30/13 09:33	04/30/13 13:13	1
Fluorene	20	U	20	4.1	ug/Kg		04/30/13 09:33	04/30/13 13:13	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.0	ug/Kg		04/30/13 09:33	04/30/13 13:13	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/30/13 09:33	04/30/13 13:13	1
2-Methylnaphthalene	40	U	40	7.0	ug/Kg		04/30/13 09:33	04/30/13 13:13	1
Naphthalene	40	U	40	4.4	ug/Kg		04/30/13 09:33	04/30/13 13:13	1
Phenanthrene	7.9	U	7.9	3.9	ug/Kg		04/30/13 09:33	04/30/13 13:13	1
Pyrene	20	U	20	3.7	ug/Kg		04/30/13 09:33	04/30/13 13:13	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o</i> -Terphenyl	64		30 - 130	04/30/13 09:33	04/30/13 13:13	1

**Lab Sample ID: LCS 660-136958/2-A**  
**Matrix: Solid**  
**Analysis Batch: 136977**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 136958**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Acenaphthene	653	417		ug/Kg		64	39 - 130
Acenaphthylene	653	428		ug/Kg		66	38 - 130
Anthracene	653	414		ug/Kg		63	37 - 130
Benzo[a]anthracene	653	450		ug/Kg		69	40 - 130
Benzo[a]pyrene	653	427		ug/Kg		65	49 - 130
Benzo[b]fluoranthene	653	484		ug/Kg		74	37 - 130
Benzo[g,h,i]perylene	653	489		ug/Kg		75	32 - 130
Benzo[k]fluoranthene	653	420		ug/Kg		64	32 - 130
Chrysene	653	421		ug/Kg		64	41 - 130
Dibenz(a,h)anthracene	653	550		ug/Kg		84	27 - 130
Fluoranthene	653	443		ug/Kg		68	40 - 130
Fluorene	653	432		ug/Kg		66	40 - 130
Indeno[1,2,3-cd]pyrene	653	534		ug/Kg		82	30 - 130
1-Methylnaphthalene	653	472		ug/Kg		72	31 - 130

TestAmerica Savannah

# QC Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

**Lab Sample ID: LCS 660-136958/2-A**

**Matrix: Solid**

**Analysis Batch: 136977**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 136958**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	653	457		ug/Kg		70	33 - 130
Naphthalene	653	453		ug/Kg		69	36 - 130
Phenanthrene	653	415		ug/Kg		64	42 - 130
Pyrene	653	442		ug/Kg		68	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	66		30 - 130

**Lab Sample ID: 680-89791-2 MS**

**Matrix: Solid**

**Analysis Batch: 136977**

**Client Sample ID: HP0200B-CS-SP**

**Prep Type: Total/NA**

**Prep Batch: 136958**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1200	U F	793	1200	U F	ug/Kg	☼	0	39 - 130
Acenaphthylene	470	U F	793	163	J F	ug/Kg	☼	21	38 - 130
Anthracene	99	U F	793	164	F	ug/Kg	☼	21	37 - 130
Benzo[a]anthracene	95	U F	793	238	F	ug/Kg	☼	30	40 - 130
Benzo[a]pyrene	120	U F	793	148	F	ug/Kg	☼	19	49 - 130
Benzo[b]fluoranthene	72	J F	793	182	F	ug/Kg	☼	14	37 - 130
Benzo[g,h,i]perylene	76	J F	793	197	J F	ug/Kg	☼	15	32 - 130
Benzo[k]fluoranthene	95	U F	793	198	F	ug/Kg	☼	25	32 - 130
Chrysene	120	F	793	259	F	ug/Kg	☼	18	41 - 130
Dibenz(a,h)anthracene	240	U F	793	166	J F	ug/Kg	☼	21	27 - 130
Fluoranthene	76	J F	793	240	F	ug/Kg	☼	21	40 - 130
Fluorene	110	J F	793	341	F	ug/Kg	☼	29	40 - 130
Indeno[1,2,3-cd]pyrene	240	U F	793	155	J F	ug/Kg	☼	20	30 - 130
1-Methylnaphthalene	470	U F	793	169	J F	ug/Kg	☼	21	31 - 130
2-Methylnaphthalene	470	U F	793	281	J	ug/Kg	☼	35	33 - 130
Naphthalene	1400	F	793	1580	F	ug/Kg	☼	23	36 - 130
Phenanthrene	190	F	793	389	F	ug/Kg	☼	25	42 - 130
Pyrene	78	J F	793	186	J F	ug/Kg	☼	14	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
<i>o</i> -Terphenyl	20	X	30 - 130

**Lab Sample ID: 680-89791-2 MSD**

**Matrix: Solid**

**Analysis Batch: 136977**

**Client Sample ID: HP0200B-CS-SP**

**Prep Type: Total/NA**

**Prep Batch: 136958**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Acenaphthene	1200	U F	784	1200	U F	ug/Kg	☼	0	39 - 130	NC	40
Acenaphthylene	470	U F	784	85.2	J F	ug/Kg	☼	11	38 - 130	63	40
Anthracene	99	U F	784	96.7	J F	ug/Kg	☼	12	37 - 130	51	40
Benzo[a]anthracene	95	U F	784	176	F	ug/Kg	☼	22	40 - 130	30	40
Benzo[a]pyrene	120	U F	784	98.0	J F	ug/Kg	☼	13	49 - 130	41	40
Benzo[b]fluoranthene	72	J F	784	145	F	ug/Kg	☼	9	37 - 130	22	40
Benzo[g,h,i]perylene	76	J F	784	134	J F	ug/Kg	☼	7	32 - 130	38	40
Benzo[k]fluoranthene	95	U F	784	97.6	F	ug/Kg	☼	12	32 - 130	68	40

TestAmerica Savannah

# QC Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

**Lab Sample ID: 680-89791-2 MSD**

**Matrix: Solid**

**Analysis Batch: 136977**

**Client Sample ID: HP0200B-CS-SP**

**Prep Type: Total/NA**

**Prep Batch: 136958**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chrysene	120	F	784	188	F	ug/Kg	*	9	41 - 130	32	40
Dibenz(a,h)anthracene	240	U F	784	88.6	J F	ug/Kg	*	11	27 - 130	61	40
Fluoranthene	76	J F	784	177	J F	ug/Kg	*	13	40 - 130	31	40
Fluorene	110	J F	784	135	J F	ug/Kg	*	3	40 - 130	87	40
Indeno[1,2,3-cd]pyrene	240	U F	784	105	J F	ug/Kg	*	13	30 - 130	39	40
1-Methylnaphthalene	470	U F	784	110	J F	ug/Kg	*	14	31 - 130	42	40
2-Methylnaphthalene	470	U F	784	132	J F	ug/Kg	*	17	33 - 130	72	40
Naphthalene	1400	F	784	595	F	ug/Kg	*	-102	36 - 130	90	40
Phenanthrene	190	F	784	214	F	ug/Kg	*	3	42 - 130	58	40
Pyrene	78	J F	784	151	J F	ug/Kg	*	9	44 - 130	21	40

Surrogate	MSD %Recovery	MSD Qualifier	Limits
<i>o</i> -Terphenyl	14	X	30 - 130

**Lab Sample ID: MB 660-136975/1-A**

**Matrix: Solid**

**Analysis Batch: 137070**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 136975**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	100	U	100	20	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Acenaphthylene	40	U	40	5.0	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Fluorene	20	U	20	4.1	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Naphthalene	40	U	40	4.4	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Pyrene	20	U	20	3.7	ug/Kg		04/30/13 14:42	05/02/13 16:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	57		30 - 130	04/30/13 14:42	05/02/13 16:56	1

**Lab Sample ID: LCS 660-136975/2-A**

**Matrix: Solid**

**Analysis Batch: 137070**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 136975**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Acenaphthene	667	324		ug/Kg		49	39 - 130
Acenaphthylene	667	331		ug/Kg		50	38 - 130

TestAmerica Savannah



# QC Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

**Lab Sample ID: LCS 660-136975/2-A**

**Matrix: Solid**

**Analysis Batch: 137070**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 136975**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Anthracene	667	412		ug/Kg		62	37 - 130	
Benzo[a]anthracene	667	393		ug/Kg		59	40 - 130	
Benzo[a]pyrene	667	341		ug/Kg		51	49 - 130	
Benzo[b]fluoranthene	667	352		ug/Kg		53	37 - 130	
Benzo[g,h,i]perylene	667	343		ug/Kg		51	32 - 130	
Benzo[k]fluoranthene	667	382		ug/Kg		57	32 - 130	
Chrysene	667	356		ug/Kg		53	41 - 130	
Dibenz(a,h)anthracene	667	413		ug/Kg		62	27 - 130	
Fluoranthene	667	393		ug/Kg		59	40 - 130	
Fluorene	667	371		ug/Kg		56	40 - 130	
Indeno[1,2,3-cd]pyrene	667	353		ug/Kg		53	30 - 130	
1-Methylnaphthalene	667	413		ug/Kg		62	31 - 130	
2-Methylnaphthalene	667	396		ug/Kg		59	33 - 130	
Naphthalene	667	391		ug/Kg		59	36 - 130	
Phenanthrene	667	412		ug/Kg		62	42 - 130	
Pyrene	667	372		ug/Kg		56	44 - 130	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	58		30 - 130

**Lab Sample ID: MB 660-137132/1-A**

**Matrix: Solid**

**Analysis Batch: 137156**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 137132**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	99	U	99	20	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Acenaphthylene	40	U	40	5.0	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Anthracene	8.3	U	8.3	4.2	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Benzo[a]anthracene	7.9	U	7.9	3.9	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Benzo[k]fluoranthene	7.9	U	7.9	3.6	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Chrysene	8.9	U	8.9	4.5	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Fluoranthene	20	U	20	4.0	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Fluorene	20	U	20	4.1	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.0	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
2-Methylnaphthalene	40	U	40	7.0	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Naphthalene	40	U	40	4.4	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Phenanthrene	7.9	U	7.9	3.9	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Pyrene	20	U	20	3.7	ug/Kg		05/06/13 08:14	05/06/13 15:08	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o</i> -Terphenyl	61		30 - 130	05/06/13 08:14	05/06/13 15:08	1

TestAmerica Savannah

# QC Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

**Lab Sample ID: LCS 660-137132/2-A**

**Matrix: Solid**

**Analysis Batch: 137156**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 137132**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	670	373		ug/Kg		56	39 - 130
Acenaphthylene	670	430		ug/Kg		64	38 - 130
Anthracene	670	428		ug/Kg		64	37 - 130
Benzo[a]anthracene	670	444		ug/Kg		66	40 - 130
Benzo[a]pyrene	670	356		ug/Kg		53	49 - 130
Benzo[b]fluoranthene	670	380		ug/Kg		57	37 - 130
Benzo[g,h,i]perylene	670	508		ug/Kg		76	32 - 130
Benzo[k]fluoranthene	670	357		ug/Kg		53	32 - 130
Chrysene	670	380		ug/Kg		57	41 - 130
Dibenz(a,h)anthracene	670	502		ug/Kg		75	27 - 130
Fluoranthene	670	432		ug/Kg		64	40 - 130
Fluorene	670	445		ug/Kg		66	40 - 130
Indeno[1,2,3-cd]pyrene	670	467		ug/Kg		70	30 - 130
1-Methylnaphthalene	670	439		ug/Kg		66	31 - 130
2-Methylnaphthalene	670	435		ug/Kg		65	33 - 130
Naphthalene	670	396		ug/Kg		59	36 - 130
Phenanthrene	670	409		ug/Kg		61	42 - 130
Pyrene	670	447		ug/Kg		67	44 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	62		30 - 130

# QC Association Summary

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

## GC/MS Semi VOA

### Prep Batch: 136938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89791-3	HP0232A-CS-SP	Total/NA	Solid	3546	
680-89791-4	HP0232B-CS-SP	Total/NA	Solid	3546	
680-89791-5	HP0288A-CS-SP	Total/NA	Solid	3546	
680-89791-6	CV1342A-CS-SP	Total/NA	Solid	3546	
680-89791-7	CV1342B-CS-SP	Total/NA	Solid	3546	
680-89791-8	CV1116A-CS	Total/NA	Solid	3546	
680-89791-9	CV1116B-CS	Total/NA	Solid	3546	
680-89791-10	CV1336A-CS	Total/NA	Solid	3546	
680-89791-11	CV1336A-CSD	Total/NA	Solid	3546	
680-89791-12	CV1336B-CS	Total/NA	Solid	3546	
680-89791-13	CV0790A-CS-SP	Total/NA	Solid	3546	
680-89791-14	CV0790B-CS-SP	Total/NA	Solid	3546	
LCS 660-136938/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136938/1-A	Method Blank	Total/NA	Solid	3546	

### Prep Batch: 136958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89791-2	HP0200B-CS-SP	Total/NA	Solid	3546	
680-89791-2 MS	HP0200B-CS-SP	Total/NA	Solid	3546	
680-89791-2 MSD	HP0200B-CS-SP	Total/NA	Solid	3546	
LCS 660-136958/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136958/1-A	Method Blank	Total/NA	Solid	3546	

### Prep Batch: 136975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89791-15	CV0790C-CS-SP	Total/NA	Solid	3546	
680-89791-18	CV0121A-CS-SP	Total/NA	Solid	3546	
680-89791-19	CV0121B-CS-SP	Total/NA	Solid	3546	
680-89791-20	CV0752A-CS-SP	Total/NA	Solid	3546	
680-89791-21	CV0752B-CS-SP	Total/NA	Solid	3546	
680-89791-23	CV1312A-CS-SP	Total/NA	Solid	3546	
LCS 660-136975/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136975/1-A	Method Blank	Total/NA	Solid	3546	

### Analysis Batch: 136977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89791-2	HP0200B-CS-SP	Total/NA	Solid	8270C LL	136958
680-89791-2 MS	HP0200B-CS-SP	Total/NA	Solid	8270C LL	136958
680-89791-2 MSD	HP0200B-CS-SP	Total/NA	Solid	8270C LL	136958
LCS 660-136958/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136958
MB 660-136958/1-A	Method Blank	Total/NA	Solid	8270C LL	136958

### Analysis Batch: 137001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89791-3	HP0232A-CS-SP	Total/NA	Solid	8270C LL	136938
680-89791-4	HP0232B-CS-SP	Total/NA	Solid	8270C LL	136938
680-89791-5	HP0288A-CS-SP	Total/NA	Solid	8270C LL	136938
680-89791-6	CV1342A-CS-SP	Total/NA	Solid	8270C LL	136938
680-89791-7	CV1342B-CS-SP	Total/NA	Solid	8270C LL	136938
680-89791-8	CV1116A-CS	Total/NA	Solid	8270C LL	136938
680-89791-9	CV1116B-CS	Total/NA	Solid	8270C LL	136938

TestAmerica Savannah

# QC Association Summary

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 137001 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89791-10	CV1336A-CS	Total/NA	Solid	8270C LL	136938
680-89791-11	CV1336A-CSD	Total/NA	Solid	8270C LL	136938
680-89791-12	CV1336B-CS	Total/NA	Solid	8270C LL	136938
680-89791-13	CV0790A-CS-SP	Total/NA	Solid	8270C LL	136938
680-89791-14	CV0790B-CS-SP	Total/NA	Solid	8270C LL	136938
LCS 660-136938/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136938
MB 660-136938/1-A	Method Blank	Total/NA	Solid	8270C LL	136938

### Analysis Batch: 137070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89791-15	CV0790C-CS-SP	Total/NA	Solid	8270C LL	136975
680-89791-18	CV0121A-CS-SP	Total/NA	Solid	8270C LL	136975
680-89791-19	CV0121B-CS-SP	Total/NA	Solid	8270C LL	136975
680-89791-20	CV0752A-CS-SP	Total/NA	Solid	8270C LL	136975
680-89791-21	CV0752B-CS-SP	Total/NA	Solid	8270C LL	136975
680-89791-23	CV1312A-CS-SP	Total/NA	Solid	8270C LL	136975
LCS 660-136975/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136975
MB 660-136975/1-A	Method Blank	Total/NA	Solid	8270C LL	136975

### Prep Batch: 137132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89791-1	HP0200A-CS-SP	Total/NA	Solid	3546	
LCS 660-137132/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-137132/1-A	Method Blank	Total/NA	Solid	3546	

### Analysis Batch: 137156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89791-1	HP0200A-CS-SP	Total/NA	Solid	8270C LL	137132
LCS 660-137132/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	137132
MB 660-137132/1-A	Method Blank	Total/NA	Solid	8270C LL	137132

## General Chemistry

### Analysis Batch: 136953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89791-1	HP0200A-CS-SP	Total/NA	Solid	Moisture	
680-89791-2	HP0200B-CS-SP	Total/NA	Solid	Moisture	
680-89791-3	HP0232A-CS-SP	Total/NA	Solid	Moisture	
680-89791-4	HP0232B-CS-SP	Total/NA	Solid	Moisture	
680-89791-5	HP0288A-CS-SP	Total/NA	Solid	Moisture	
680-89791-6	CV1342A-CS-SP	Total/NA	Solid	Moisture	
680-89791-7	CV1342B-CS-SP	Total/NA	Solid	Moisture	
680-89791-8	CV1116A-CS	Total/NA	Solid	Moisture	
680-89791-9	CV1116B-CS	Total/NA	Solid	Moisture	
680-89791-10	CV1336A-CS	Total/NA	Solid	Moisture	
680-89791-11	CV1336A-CSD	Total/NA	Solid	Moisture	
680-89791-12	CV1336B-CS	Total/NA	Solid	Moisture	
680-89791-13	CV0790A-CS-SP	Total/NA	Solid	Moisture	
680-89791-14	CV0790B-CS-SP	Total/NA	Solid	Moisture	
680-89791-15	CV0790C-CS-SP	Total/NA	Solid	Moisture	

TestAmerica Savannah

# QC Association Summary

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
SDG: 68089791-1

## General Chemistry (Continued)

### Analysis Batch: 136953 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89791-18	CV0121A-CS-SP	Total/NA	Solid	Moisture	
680-89791-19	CV0121B-CS-SP	Total/NA	Solid	Moisture	
680-89791-20	CV0752A-CS-SP	Total/NA	Solid	Moisture	
680-89791-21	CV0752B-CS-SP	Total/NA	Solid	Moisture	
680-89791-23	CV1312A-CS-SP	Total/NA	Solid	Moisture	

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## Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

### Client Sample ID: HP0200A-CS-SP

Lab Sample ID: 680-89791-1

Date Collected: 04/24/13 10:17

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137132	05/06/13 08:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	137156	05/06/13 21:43	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

### Client Sample ID: HP0200B-CS-SP

Lab Sample ID: 680-89791-2

Date Collected: 04/24/13 10:30

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136958	04/30/13 09:33	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136977	04/30/13 16:12	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

### Client Sample ID: HP0232A-CS-SP

Lab Sample ID: 680-89791-3

Date Collected: 04/24/13 09:27

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136938	04/29/13 14:27	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137001	05/01/13 18:03	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

### Client Sample ID: HP0232B-CS-SP

Lab Sample ID: 680-89791-4

Date Collected: 04/24/13 09:41

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136938	04/29/13 14:27	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137001	05/01/13 18:18	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

### Client Sample ID: HP0288A-CS-SP

Lab Sample ID: 680-89791-5

Date Collected: 04/24/13 08:56

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136938	04/29/13 14:27	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137001	05/01/13 18:33	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

# Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

## Client Sample ID: CV1342A-CS-SP

Lab Sample ID: 680-89791-6

Date Collected: 04/24/13 11:20

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136938	04/29/13 14:27	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137001	05/01/13 18:48	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

## Client Sample ID: CV1342B-CS-SP

Lab Sample ID: 680-89791-7

Date Collected: 04/24/13 11:27

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136938	04/29/13 14:27	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	137001	05/01/13 19:03	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

## Client Sample ID: CV1116A-CS

Lab Sample ID: 680-89791-8

Date Collected: 04/24/13 10:25

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136938	04/29/13 14:27	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	137001	05/01/13 19:18	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

## Client Sample ID: CV1116B-CS

Lab Sample ID: 680-89791-9

Date Collected: 04/24/13 10:25

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136938	04/29/13 14:27	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137001	05/01/13 19:33	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

## Client Sample ID: CV1336A-CS

Lab Sample ID: 680-89791-10

Date Collected: 04/24/13 09:20

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136938	04/29/13 14:27	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137001	05/01/13 19:48	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

# Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

## Client Sample ID: CV1336A-CSD

Lab Sample ID: 680-89791-11

Date Collected: 04/24/13 09:20

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136938	04/29/13 14:27	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137001	05/01/13 20:03	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

## Client Sample ID: CV1336B-CS

Lab Sample ID: 680-89791-12

Date Collected: 04/24/13 09:30

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136938	04/29/13 14:27	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137001	05/01/13 20:18	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

## Client Sample ID: CV0790A-CS-SP

Lab Sample ID: 680-89791-13

Date Collected: 04/24/13 13:41

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 74.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136938	04/29/13 14:27	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	137001	05/01/13 20:33	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

## Client Sample ID: CV0790B-CS-SP

Lab Sample ID: 680-89791-14

Date Collected: 04/24/13 13:52

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 73.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136938	04/29/13 14:27	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	137001	05/01/13 20:48	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

## Client Sample ID: CV0790C-CS-SP

Lab Sample ID: 680-89791-15

Date Collected: 04/24/13 13:54

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 74.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136975	04/30/13 14:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137070	05/02/13 17:57	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM



# Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

## Client Sample ID: CV0121A-CS-SP

Lab Sample ID: 680-89791-18

Date Collected: 04/25/13 10:58

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 73.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136975	04/30/13 14:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	137070	05/02/13 18:12	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

## Client Sample ID: CV0121B-CS-SP

Lab Sample ID: 680-89791-19

Date Collected: 04/25/13 11:12

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 71.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136975	04/30/13 14:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137070	05/02/13 18:27	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

## Client Sample ID: CV0752A-CS-SP

Lab Sample ID: 680-89791-20

Date Collected: 04/25/13 09:00

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136975	04/30/13 14:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137070	05/02/13 18:42	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

## Client Sample ID: CV0752B-CS-SP

Lab Sample ID: 680-89791-21

Date Collected: 04/25/13 09:13

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136975	04/30/13 14:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	137070	05/02/13 18:57	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

## Client Sample ID: CV1312A-CS-SP

Lab Sample ID: 680-89791-23

Date Collected: 04/25/13 09:50

Matrix: Solid

Date Received: 04/27/13 08:25

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136975	04/30/13 14:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137070	05/02/13 19:57	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

**Laboratory References:**

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location  
Test Am - Tampa

Phone:  
Fax:

680-89791

PROJECT REFERENCE <b>35th Ave Removal</b>	PROJECT NO. <b>200548-1356</b>	PROJECT LOCATION (STATE) <b>AL</b>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <b>1</b> OF <b>5</b>
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**(b) (6)**

COMPOSITE (C) OR GRAB (G) INDICATE  
AQUEOUS (WATER)  
SOLID OR SEMISOLID  
AIR  
NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

LL PAH  
ROCA 8 Metals  
PCB  
**PRESERVATIVE**

STANDARD REPORT DELIVERY   
DATE DUE \_\_\_\_\_  
EXPEDITED REPORT DELIVERY (SURCHARGE)   
**10 Calendar Days**  
DATE DUE \_\_\_\_\_  
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

COMPANY CONTRACTING THIS WORK (if applicable)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS										REMARKS
DATE	TIME							1	2	3	4	5	6	7	8	9	10	
4-24-B	1017	HP0200A-CS-SP	C	X			X	X	X									
	1030	HP0200B-CS-SP	C	X			X	X	X								XRF Shows very high levels Pb, Cu.	
	0927	HP0232A-CS-SP	C	X			X											
	0941	HP0232B-CS-SP	C	X			X											
	0856	HP0288A-CS-SP	C	X			X											
	1120	CV1342A-CS-SP	C	X			X											
	1127	CV1342B-CS-SP	C	X			X	X										
	1025	CV1116A-CS	C	X			X											
	1025	CV1116B-CS	C	X			X											
	0920	CV1336A-CS	C	X			X											
	0920	CV1336A-CSD	C	X			X											
	0930	CV1336B-CS	C	X			X											

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 4-26-13	TIME 1130	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY						
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE 4/27/13	TIME 825	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 28,240CV-07	LABORATORY REMARKS <i>[Signature]</i>

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5/8/2013



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone: 480-89791  
Fax:

PROJECT REFERENCE: 35th Ave Removal PROJECT NO: 2005148-1356 PROJECT LOCATION (STATE): AL MATRIX TYPE: LL.PMHA PCBA 8 Metals REQUIRED ANALYSIS: PRESERVATIVE PAGE 2 OF 5

**(b) (6)**

STANDARD REPORT DELIVERY   
DATE DUE \_\_\_\_\_  
EXPEDITED REPORT DELIVERY (SURCHARGE) 10 Calendar Days STAT  
DATE DUE \_\_\_\_\_

COMPANY CONTRACTING THIS WORK (if applicable)

**PRESERVATIVE**

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX TYPE			NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS										REMARKS		
DATE	TIME			AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR		1	2	3	4	5	6	7	8	9	10		11	12
4-24-13	1341	CV0790A-CS-SP	C	X		X														
	1352	CV0790B-CS-SP	C	X		X														
	1354	CV0790C-CS-SP	C	X		X	X													
	1127	CV1342B-CS-SP (sieve)	C	X			X													
	1354	CV0790C-CS-SP (sieve)	C	X			X													
4-25-13	1058	CV0121A-CS-SP	C	X		X														
	1112	CV0121B-CS-SP	C	X		X														
	0900	CV0752A-CS-SP	C	X		X														
	0913	CV0752B-CS-SP	C	X		X	X													
	0923	CV0752C-ES-SP	G	X		X														
	0950	CV1312A-CS-SP	C	X		X														
	1001	CV1312B-CS-SP	C	X		X														

RELINQUISHED BY: (SIGNATURE) <i>A. Ankin</i>	DATE 4-26-13	TIME 1130	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>Ember Edney</i>	DATE 4/27/13	TIME 825	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
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## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89791-1

SDG Number: 68089791-1

**Login Number: 89791**

**List Number: 1**

**Creator: Barnett, Eddie T**

**List Source: TestAmerica Savannah**

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



## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89791-1

SDG Number: 68089791-1

**Login Number: 89791**

**List Number: 1**

**Creator: Snead, Joshua**

**List Source: TestAmerica Tampa**

**List Creation: 04/29/13 01:27 PM**

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

# Certification Summary

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
 SDG: 68089791-1

## Laboratory: TestAmerica Savannah

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	05-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
Arkansas DEQ	State Program	6	88-0692	02-01-13 *
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13 *
Kentucky	State Program	4	90084	12-31-12 *
Kentucky (UST)	State Program	4	18	03-31-13 *
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13 *
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13 *
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13 *
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

## Laboratory: TestAmerica Tampa

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAP	4	E84282	06-30-13

\* Expired certification is currently pending renewal and is considered valid.

TestAmerica Savannah

# Certification Summary

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-1  
SDG: 68089791-1

## Laboratory: TestAmerica Tampa (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Georgia	State Program	4	905	06-30-13
USDA	Federal		P330-11-00177	04-20-14

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