

**Data Validation Checklist  
Semivolatile Organic Analyses**

Project: 35<sup>TH</sup> Avenue Superfund Site  
 Laboratory: TestAmerica – Tampa, FL  
 Method: SW-846 8270C Low-Level (PAH)  
 Matrix: Soil  
 Reviewer: Jane Lindsey  
 Concurrence<sup>1</sup>: Carol Lovett, Sarah Choyke

Project No: 15268508.20000  
 Job ID.: 680-88592-2  
 Associated Samples: Refer to Attachment A (Sample Summary)  
 Date(s) Collected: 03/20/2013  
 Date: 04/04/2013  
 Date: 04/10/2013

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?		✓		PAH were not detected during the analysis of rinsate blank 032013-RB-Bowls+Spoons (680-88527-34).	

<sup>1</sup> Independent technical reviewer  
 URS Group, Inc.  
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## 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 (032013-RB-Bowls+Spoons) was collected during the week of 03/18/2013. The rinsate blank was analyzed for PAHs under Test America Job ID 680-88527-2.	
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?		✓			
15. Was precision deemed acceptable as defined by the project plans?			✓		
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>Initial Calibration: 02/22/2013, instrument BSMC5973</li> <li>ICV: 02/22/2013 @ 14:06</li> <li>CCV: 03/27/2013 @ 10:35</li> <li>Initial Calibration: 02/22/2013, instrument BSMD5973</li> <li>ICV: 02/22/2013 @ 14:51</li> <li>CCV: 03/28/2013 @ 14:57</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-</li> </ul> </li> </ul>		✓		ICV of 02/22/2013 @ 14:06, instrument BSMC5973: <ul style="list-style-type: none"> <li>Chrysene @ -20.6%D (Lab: <math>\leq 35</math>, Project: <math>\leq 20</math>)</li> <li>Benzo(a)pyrene @ -21.7%D (Lab: <math>\leq 35</math>, Project: <math>\leq 20</math>)</li> </ul> A negative bias is indicated by the ICV percent difference; therefore, J-flag detected and UJ flag non-	J, UJ

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> <li>detects               <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> </ul> </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>				detected chrysene and benzo(a)pyrene results in associated samples <sup>2</sup> .	
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)?	✓			<ul style="list-style-type: none"> <li>• Prep Batch 135800: 680-88592-19 (Batch sample), MS/MSD</li> <li>• Prep Batch 135822: 680-88592-21 (CV1323A-GS), MS/MSD</li> </ul>	
24. Is the MS/MSD parent sample a project-specific sample?	✓	✓		See above.	
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 evaluation of interference is not possible.</li> <li>• If either MS or MSD recovery meets control limits, qualification of data is not warranted.</li> <li>• MS and MSD <math>\%R &lt; 10</math>: J and R Flag positive and ND results, respectively</li> <li>• MS and MSD <math>\%R &gt; 10</math> and <math>&lt; \text{LCL}</math>: J-Flag positive and UJ-flag non-detect results</li> <li>• MS and MSD <math>R\% &gt; \text{UCL}</math> (or 140): J-Flag positive results</li> </ul>		✓		CV1323A-GS (680-88592-21): <ul style="list-style-type: none"> <li>• Benzo(a)pyrene @ 41 and 48%R (49-130). J Flag sample result.</li> <li>• Benzo(b)fluoranthene @ 33 and 42%R (37-130). Qualification of data is not necessary<sup>3</sup></li> <li>• Chrysene @ 33 and 41%R (41-130). Qualification of data is not necessary<sup>3</sup>.</li> <li>• 2-Methylnaphthalene @ 31 and 37%R (33-130). Qualification of data is not necessary<sup>3</sup>.</li> <li>• Phenanthrene @ 30 and 37%R (42-130). J Flag sample result.</li> <li>• Pyrene @ 39 and 47%R (44-130). Qualification of data is not necessary<sup>3</sup>.</li> </ul>	J
26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples that are reported</i>	✓				

<sup>2</sup> 680-88592-22 through -32<sup>3</sup> The recovery of either the MS or MSD fell within control limits.

**Data Validation Checklist (Continued)**

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<p><i>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 evaluation of interference is not possible.</li> <li>If %RPD &gt; UCL, J-flag positive result and UJ-flag non-detect result.</li> </ul>					
<p>27. Were surrogate recoveries within lab/project specifications?</p> <ul style="list-style-type: none"> <li>If %R &lt;10, then J-flag positive and R-flag non-detect associated sample results</li> <li>If %R &gt;UCL, then J-flag positive results</li> <li>%R ≥10%, but &lt;LCL, then J-flag positive results and UJ-flag non-detect results</li> <li>If 1 %R &gt;UCL and 1 %R ≥10%, but &lt;LCL, then J-flag positive results and UJ-flag non-detect results</li> </ul>	✓				
<p>28. Were internal standard (IS) results within lab/project specifications?</p> <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>	✓				
<p>29. Were lab comments included in report?</p>	✓			Refer to <b>Attachment B</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 C</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: 680-88592-2  
SDG: 68088592-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88592-21	CV1323A-GS	Solid	03/20/13 14:00	03/22/13 09:39
680-88592-22	CV1323B-GS	Solid	03/20/13 14:10	03/22/13 09:39
680-88592-23	CV1323C-GS	Solid	03/20/13 14:15	03/22/13 09:39
680-88592-24	CV1323D-GS	Solid	03/20/13 14:20	03/22/13 09:39
680-88592-25	CV0763A-CS-SP	Solid	03/20/13 14:01	03/22/13 09:39
680-88592-26	CV0763B-CS-SP	Solid	03/20/13 14:15	03/22/13 09:39
680-88592-27	CV0833A-CS-SP	Solid	03/20/13 13:05	03/22/13 09:39
680-88592-28	CV0833B-CS-SP	Solid	03/20/13 13:15	03/22/13 09:39
680-88592-29	CV0876A-CS-SP	Solid	03/20/13 13:30	03/22/13 09:39
680-88592-30	CV0876B-CS-SP	Solid	03/20/13 13:40	03/22/13 09:39
680-88592-31	FM0168A-CS-SP	Solid	03/20/13 14:47	03/22/13 09:39
680-88592-32	FM0168B-CS-SP	Solid	03/20/13 14:55	03/22/13 09:39

**ATTACHMENT B**  
**CASE NARRATIVE**



## Case Narrative

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

TestAmerica Job ID: 680-88592-2  
SDG: 68088592-2

**Job ID: 680-88592-2**

Laboratory: TestAmerica Savannah

Narrative

### CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-88592-2**

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 03/22/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.6 C.

#### SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1323A-GS (680-88592-21), CV1323B-GS (680-88592-22), CV1323C-GS (680-88592-23), CV1323D-GS (680-88592-24), CV0763A-CS-SP (680-88592-25), CV0763B-CS-SP (680-88592-26), CV0833A-CS-SP (680-88592-27), CV0833B-CS-SP (680-88592-28), CV0876A-CS-SP (680-88592-29), CV0876B-CS-SP (680-88592-30), FM0168A-CS-SP (680-88592-31) and FM0168B-CS-SP (680-88592-32) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/26/2013 and 03/27/2013 and analyzed on 03/27/2013 and 03/28/2013.

Samples CV1323A-GS (680-88592-21)[4X], CV0833A-CS-SP (680-88592-27)[4X], CV0833B-CS-SP (680-88592-28)[4X], CV0876B-CS-SP (680-88592-30)[4X] and FM0168B-CS-SP (680-88592-32)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV1323A-GS (680-88592-21) in batch 660-136038. Benzo[b]fluoranthene and Indeno[1,2,3-cd]pyrene exceeded the rpd limit.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

**ATTACHMENT C**  
**QUALIFIED SAMPLE RESULTS**

## Client Sample Results

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

TestAmerica Job ID: 680-88592-2  
 SDG: 68088592-2

**Client Sample ID: CV1323A-GS**

**Lab Sample ID: 680-88592-21**

Date Collected: 03/20/13 14:00

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 79.2

**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	99	ug/Kg	☐	03/27/13 11:19	03/28/13 16:27	4
Acenaphthylene	200	U	200	25	ug/Kg	☐	03/27/13 11:19	03/28/13 16:27	4
Anthracene	41	J	42	21	ug/Kg	☐	03/27/13 11:19	03/28/13 16:27	4
Benzo[a]anthracene	150		40	19	ug/Kg	☐	03/27/13 11:19	03/28/13 16:27	4
Benzo[a]pyrene	120	f J	52	26	ug/Kg	☐	03/27/13 11:19	03/28/13 16:27	4
Benzo[b]fluoranthene	230	f	61	30	ug/Kg	☐	03/27/13 11:19	03/28/13 16:27	4
Benzo[g,h,i]perylene	130		99	22	ug/Kg	☐	03/27/13 11:19	03/28/13 16:27	4
Benzo[k]fluoranthene	63		40	18	ug/Kg	☐	03/27/13 11:19	03/28/13 16:27	4
Chrysene	200	f	45	22	ug/Kg	☐	03/27/13 11:19	03/28/13 16:27	4
Dibenz(a,h)anthracene	46	J	99	20	ug/Kg	☐	03/27/13 11:19	03/28/13 16:27	4
Fluoranthene	160		99	20	ug/Kg	☐	03/27/13 11:19	03/28/13 16:27	4
Fluorene	99	U	99	20	ug/Kg	☐	03/27/13 11:19	03/28/13 16:27	4
Indeno[1,2,3-cd]pyrene	87	J	99	35	ug/Kg	☐	03/27/13 11:19	03/28/13 16:27	4
1-Methylnaphthalene	250		200	22	ug/Kg	☐	03/27/13 11:19	03/28/13 16:27	4
2-Methylnaphthalene	250	f	200	35	ug/Kg	☐	03/27/13 11:19	03/28/13 16:27	4
Naphthalene	190	J	200	22	ug/Kg	☐	03/27/13 11:19	03/28/13 16:27	4
Phenanthrene	230	f J	40	19	ug/Kg	☐	03/27/13 11:19	03/28/13 16:27	4
Pyrene	140	f	99	18	ug/Kg	☐	03/27/13 11:19	03/28/13 16:27	4
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	50		30 - 130				03/27/13 11:19	03/28/13 16:27	4

**Client Sample ID: CV1323B-GS**

**Lab Sample ID: 680-88592-22**

Date Collected: 03/20/13 14:10

Matrix: Solid

Date Received: 03/22/13 09:39

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	130	U	130	27	ug/Kg	☐	03/26/13 16:07	03/27/13 14:29	1
Acenaphthylene	53	U	53	6.7	ug/Kg	☐	03/26/13 16:07	03/27/13 14:29	1
Anthracene	11	U	11	5.6	ug/Kg	☐	03/26/13 16:07	03/27/13 14:29	1
Benzo[a]anthracene	11	U	11	5.2	ug/Kg	☐	03/26/13 16:07	03/27/13 14:29	1
Benzo[a]pyrene	14	U J	14	6.9	ug/Kg	☐	03/26/13 16:07	03/27/13 14:29	1
Benzo[b]fluoranthene	16	U	16	8.1	ug/Kg	☐	03/26/13 16:07	03/27/13 14:29	1
Benzo[g,h,i]perylene	6.8	J	27	5.9	ug/Kg	☐	03/26/13 16:07	03/27/13 14:29	1
Benzo[k]fluoranthene	11	U	11	4.8	ug/Kg	☐	03/26/13 16:07	03/27/13 14:29	1
Chrysene	12	U J	12	6.0	ug/Kg	☐	03/26/13 16:07	03/27/13 14:29	1
Dibenz(a,h)anthracene	27	U	27	5.5	ug/Kg	☐	03/26/13 16:07	03/27/13 14:29	1
Fluoranthene	27	U	27	5.3	ug/Kg	☐	03/26/13 16:07	03/27/13 14:29	1
Fluorene	27	U	27	5.5	ug/Kg	☐	03/26/13 16:07	03/27/13 14:29	1
Indeno[1,2,3-cd]pyrene	27	U	27	9.5	ug/Kg	☐	03/26/13 16:07	03/27/13 14:29	1
1-Methylnaphthalene	53	U	53	5.9	ug/Kg	☐	03/26/13 16:07	03/27/13 14:29	1
2-Methylnaphthalene	53	U	53	9.5	ug/Kg	☐	03/26/13 16:07	03/27/13 14:29	1
Naphthalene	53	U	53	5.9	ug/Kg	☐	03/26/13 16:07	03/27/13 14:29	1
Phenanthrene	12		11	5.2	ug/Kg	☐	03/26/13 16:07	03/27/13 14:29	1
Pyrene	7.1	J	27	4.9	ug/Kg	☐	03/26/13 16:07	03/27/13 14:29	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	85		30 - 130				03/26/13 16:07	03/27/13 14:29	1

TestAmerica Savannah

## Client Sample Results

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

TestAmerica Job ID: 680-88592-2  
 SDG: 68088592-2

**Client Sample ID: CV1323C-GS**

**Lab Sample ID: 680-88592-23**

Date Collected: 03/20/13 14:15

Matrix: Solid

Date Received: 03/22/13 09:39

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	120	U	120	25	ug/Kg	☐	03/26/13 16:07	03/27/13 14:47	1
Acenaphthylene	50	U	50	6.2	ug/Kg	☐	03/26/13 16:07	03/27/13 14:47	1
Anthracene	10	U	10	5.2	ug/Kg	☐	03/26/13 16:07	03/27/13 14:47	1
Benzo[a]anthracene	10	U	10	4.9	ug/Kg	☐	03/26/13 16:07	03/27/13 14:47	1
Benzo[a]pyrene	13	U J	13	6.5	ug/Kg	☐	03/26/13 16:07	03/27/13 14:47	1
Benzo[b]fluoranthene	9.0	J	15	7.6	ug/Kg	☐	03/26/13 16:07	03/27/13 14:47	1
Benzo[g,h,i]perylene	6.2	J	25	5.5	ug/Kg	☐	03/26/13 16:07	03/27/13 14:47	1
Benzo[k]fluoranthene	8.2	J	10	4.5	ug/Kg	☐	03/26/13 16:07	03/27/13 14:47	1
Chrysene	8.5	J	11	5.6	ug/Kg	☐	03/26/13 16:07	03/27/13 14:47	1
Dibenz(a,h)anthracene	25	U	25	5.1	ug/Kg	☐	03/26/13 16:07	03/27/13 14:47	1
Fluoranthene	11	J	25	5.0	ug/Kg	☐	03/26/13 16:07	03/27/13 14:47	1
Fluorene	25	U	25	5.1	ug/Kg	☐	03/26/13 16:07	03/27/13 14:47	1
Indeno[1,2,3-cd]pyrene	25	U	25	8.9	ug/Kg	☐	03/26/13 16:07	03/27/13 14:47	1
1-Methylnaphthalene	6.7	J	50	5.5	ug/Kg	☐	03/26/13 16:07	03/27/13 14:47	1
2-Methylnaphthalene	50	U	50	8.9	ug/Kg	☐	03/26/13 16:07	03/27/13 14:47	1
Naphthalene	9.3	J	50	5.5	ug/Kg	☐	03/26/13 16:07	03/27/13 14:47	1
Phenanthrene	9.9	J	10	4.9	ug/Kg	☐	03/26/13 16:07	03/27/13 14:47	1
Pyrene	11	J	25	4.6	ug/Kg	☐	03/26/13 16:07	03/27/13 14:47	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	94		30 - 130				03/26/13 16:07	03/27/13 14:47	1

**Client Sample ID: CV1323D-GS**

**Lab Sample ID: 680-88592-24**

Date Collected: 03/20/13 14:20

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 57.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	180	U	180	35	ug/Kg	☐	03/26/13 16:07	03/27/13 15:05	1
Acenaphthylene	10	J	70	8.8	ug/Kg	☐	03/26/13 16:07	03/27/13 15:05	1
Anthracene	33		15	7.4	ug/Kg	☐	03/26/13 16:07	03/27/13 15:05	1
Benzo[a]anthracene	120		14	6.8	ug/Kg	☐	03/26/13 16:07	03/27/13 15:05	1
Benzo[a]pyrene	120	J	18	9.1	ug/Kg	☐	03/26/13 16:07	03/27/13 15:05	1
Benzo[b]fluoranthene	220		21	11	ug/Kg	☐	03/26/13 16:07	03/27/13 15:05	1
Benzo[g,h,i]perylene	140		35	7.7	ug/Kg	☐	03/26/13 16:07	03/27/13 15:05	1
Benzo[k]fluoranthene	85		14	6.3	ug/Kg	☐	03/26/13 16:07	03/27/13 15:05	1
Chrysene	190	J	16	7.9	ug/Kg	☐	03/26/13 16:07	03/27/13 15:05	1
Dibenz(a,h)anthracene	37		35	7.2	ug/Kg	☐	03/26/13 16:07	03/27/13 15:05	1
Fluoranthene	240		35	7.0	ug/Kg	☐	03/26/13 16:07	03/27/13 15:05	1
Fluorene	19	J	35	7.2	ug/Kg	☐	03/26/13 16:07	03/27/13 15:05	1
Indeno[1,2,3-cd]pyrene	99		35	12	ug/Kg	☐	03/26/13 16:07	03/27/13 15:05	1
1-Methylnaphthalene	45	J	70	7.7	ug/Kg	☐	03/26/13 16:07	03/27/13 15:05	1
2-Methylnaphthalene	75		70	12	ug/Kg	☐	03/26/13 16:07	03/27/13 15:05	1
Naphthalene	140		70	7.7	ug/Kg	☐	03/26/13 16:07	03/27/13 15:05	1
Phenanthrene	160		14	6.8	ug/Kg	☐	03/26/13 16:07	03/27/13 15:05	1
Pyrene	270		35	6.5	ug/Kg	☐	03/26/13 16:07	03/27/13 15:05	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	49		30 - 130				03/26/13 16:07	03/27/13 15:05	1

TestAmerica Savannah

## Client Sample Results

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

TestAmerica Job ID: 680-88592-2  
 SDG: 68088592-2

**Client Sample ID: CV0763A-CS-SP**

**Lab Sample ID: 680-88592-25**

Date Collected: 03/20/13 14:01

Matrix: Solid

Date Received: 03/22/13 09:39

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	⊕	03/26/13 16:07	03/27/13 15:24	1
Acenaphthylene	53	U	53	6.7	ug/Kg	⊕	03/26/13 16:07	03/27/13 15:24	1
Anthracene	11	U	11	5.6	ug/Kg	⊕	03/26/13 16:07	03/27/13 15:24	1
<b>Benzo[a]anthracene</b>	<b>22</b>		<b>11</b>	<b>5.2</b>	<b>ug/Kg</b>	⊕	03/26/13 16:07	03/27/13 15:24	<b>1</b>
<b>Benzo[a]pyrene</b>	<b>20</b>	<b>J</b>	<b>14</b>	<b>6.9</b>	<b>ug/Kg</b>	⊕	03/26/13 16:07	03/27/13 15:24	<b>1</b>
<b>Benzo[b]fluoranthene</b>	<b>29</b>		<b>16</b>	<b>8.1</b>	<b>ug/Kg</b>	⊕	03/26/13 16:07	03/27/13 15:24	<b>1</b>
<b>Benzo[g,h,i]perylene</b>	<b>20</b>	<b>J</b>	<b>27</b>	<b>5.9</b>	<b>ug/Kg</b>	⊕	03/26/13 16:07	03/27/13 15:24	<b>1</b>
<b>Benzo[k]fluoranthene</b>	<b>12</b>		<b>11</b>	<b>4.8</b>	<b>ug/Kg</b>	⊕	03/26/13 16:07	03/27/13 15:24	<b>1</b>
<b>Chrysene</b>	<b>28</b>	<b>J</b>	<b>12</b>	<b>6.0</b>	<b>ug/Kg</b>	⊕	03/26/13 16:07	03/27/13 15:24	<b>1</b>
Dibenz(a,h)anthracene	27	U	27	5.5	ug/Kg	⊕	03/26/13 16:07	03/27/13 15:24	1
Fluoranthene	34		27	5.3	ug/Kg	⊕	03/26/13 16:07	03/27/13 15:24	1
Fluorene	27	U	27	5.5	ug/Kg	⊕	03/26/13 16:07	03/27/13 15:24	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>14</b>	<b>J</b>	<b>27</b>	<b>9.5</b>	<b>ug/Kg</b>	⊕	03/26/13 16:07	03/27/13 15:24	<b>1</b>
<b>1-Methylnaphthalene</b>	<b>30</b>	<b>J</b>	<b>53</b>	<b>5.9</b>	<b>ug/Kg</b>	⊕	03/26/13 16:07	03/27/13 15:24	<b>1</b>
<b>2-Methylnaphthalene</b>	<b>24</b>	<b>J</b>	<b>53</b>	<b>9.5</b>	<b>ug/Kg</b>	⊕	03/26/13 16:07	03/27/13 15:24	<b>1</b>
<b>Naphthalene</b>	<b>26</b>	<b>J</b>	<b>53</b>	<b>5.9</b>	<b>ug/Kg</b>	⊕	03/26/13 16:07	03/27/13 15:24	<b>1</b>
<b>Phenanthrene</b>	<b>30</b>		<b>11</b>	<b>5.2</b>	<b>ug/Kg</b>	⊕	03/26/13 16:07	03/27/13 15:24	<b>1</b>
<b>Pyrene</b>	<b>30</b>		<b>27</b>	<b>4.9</b>	<b>ug/Kg</b>	⊕	03/26/13 16:07	03/27/13 15:24	<b>1</b>
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	80		30 - 130				03/26/13 16:07	03/27/13 15:24	1

**Client Sample ID: CV0763B-CS-SP**

**Lab Sample ID: 680-88592-26**

Date Collected: 03/20/13 14:15

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 71.8

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	⊕	03/26/13 16:07	03/27/13 15:42	1
Acenaphthylene	41	J	55	6.9	ug/Kg	⊕	03/26/13 16:07	03/27/13 15:42	1
Anthracene	62		12	5.8	ug/Kg	⊕	03/26/13 16:07	03/27/13 15:42	1
<b>Benzo[a]anthracene</b>	<b>250</b>		<b>11</b>	<b>5.4</b>	<b>ug/Kg</b>	⊕	03/26/13 16:07	03/27/13 15:42	<b>1</b>
<b>Benzo[a]pyrene</b>	<b>230</b>	<b>J</b>	<b>14</b>	<b>7.2</b>	<b>ug/Kg</b>	⊕	03/26/13 16:07	03/27/13 15:42	<b>1</b>
<b>Benzo[b]fluoranthene</b>	<b>390</b>		<b>17</b>	<b>8.4</b>	<b>ug/Kg</b>	⊕	03/26/13 16:07	03/27/13 15:42	<b>1</b>
<b>Benzo[g,h,i]perylene</b>	<b>190</b>		<b>28</b>	<b>6.1</b>	<b>ug/Kg</b>	⊕	03/26/13 16:07	03/27/13 15:42	<b>1</b>
<b>Benzo[k]fluoranthene</b>	<b>140</b>		<b>11</b>	<b>5.0</b>	<b>ug/Kg</b>	⊕	03/26/13 16:07	03/27/13 15:42	<b>1</b>
<b>Chrysene</b>	<b>300</b>	<b>J</b>	<b>12</b>	<b>6.2</b>	<b>ug/Kg</b>	⊕	03/26/13 16:07	03/27/13 15:42	<b>1</b>
Dibenz(a,h)anthracene	51		28	5.7	ug/Kg	⊕	03/26/13 16:07	03/27/13 15:42	1
Fluoranthene	520		28	5.5	ug/Kg	⊕	03/26/13 16:07	03/27/13 15:42	1
Fluorene	22	J	28	5.7	ug/Kg	⊕	03/26/13 16:07	03/27/13 15:42	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>140</b>		<b>28</b>	<b>9.8</b>	<b>ug/Kg</b>	⊕	03/26/13 16:07	03/27/13 15:42	<b>1</b>
<b>1-Methylnaphthalene</b>	<b>73</b>		<b>55</b>	<b>6.1</b>	<b>ug/Kg</b>	⊕	03/26/13 16:07	03/27/13 15:42	<b>1</b>
<b>2-Methylnaphthalene</b>	<b>110</b>		<b>55</b>	<b>9.8</b>	<b>ug/Kg</b>	⊕	03/26/13 16:07	03/27/13 15:42	<b>1</b>
<b>Naphthalene</b>	<b>120</b>		<b>55</b>	<b>6.1</b>	<b>ug/Kg</b>	⊕	03/26/13 16:07	03/27/13 15:42	<b>1</b>
<b>Phenanthrene</b>	<b>440</b>		<b>11</b>	<b>5.4</b>	<b>ug/Kg</b>	⊕	03/26/13 16:07	03/27/13 15:42	<b>1</b>
<b>Pyrene</b>	<b>460</b>		<b>28</b>	<b>5.1</b>	<b>ug/Kg</b>	⊕	03/26/13 16:07	03/27/13 15:42	<b>1</b>
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	71		30 - 130				03/26/13 16:07	03/27/13 15:42	1

TestAmerica Savannah

## Client Sample Results

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

TestAmerica Job ID: 680-88592-2  
 SDG: 68088592-2

**Client Sample ID: CV0833A-CS-SP**

**Lab Sample ID: 680-88592-27**

Date Collected: 03/20/13 13:05

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 67.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	600	U	600	120	ug/Kg	☐	03/26/13 16:07	03/27/13 16:00	4
Acenaphthylene	59	J	240	30	ug/Kg	☐	03/26/13 16:07	03/27/13 16:00	4
Anthracene	80		50	25	ug/Kg	☐	03/26/13 16:07	03/27/13 16:00	4
Benzo[a]anthracene	400		48	23	ug/Kg	☐	03/26/13 16:07	03/27/13 16:00	4
Benzo[a]pyrene	360	J	62	31	ug/Kg	☐	03/26/13 16:07	03/27/13 16:00	4
Benzo[b]fluoranthene	540		73	37	ug/Kg	☐	03/26/13 16:07	03/27/13 16:00	4
Benzo[g,h,i]perylene	210		120	26	ug/Kg	☐	03/26/13 16:07	03/27/13 16:00	4
Benzo[k]fluoranthene	210		48	22	ug/Kg	☐	03/26/13 16:07	03/27/13 16:00	4
Chrysene	430	J	54	27	ug/Kg	☐	03/26/13 16:07	03/27/13 16:00	4
Dibenz[a,h]anthracene	110	J	120	25	ug/Kg	☐	03/26/13 16:07	03/27/13 16:00	4
Fluoranthene	680		120	24	ug/Kg	☐	03/26/13 16:07	03/27/13 16:00	4
Fluorene	63	J	120	25	ug/Kg	☐	03/26/13 16:07	03/27/13 16:00	4
Indeno[1,2,3-cd]pyrene	190		120	42	ug/Kg	☐	03/26/13 16:07	03/27/13 16:00	4
1-Methylnaphthalene	460		240	26	ug/Kg	☐	03/26/13 16:07	03/27/13 16:00	4
2-Methylnaphthalene	420		240	42	ug/Kg	☐	03/26/13 16:07	03/27/13 16:00	4
Naphthalene	290		240	26	ug/Kg	☐	03/26/13 16:07	03/27/13 16:00	4
Phenanthrene	690		48	23	ug/Kg	☐	03/26/13 16:07	03/27/13 16:00	4
Pyrene	590		120	22	ug/Kg	☐	03/26/13 16:07	03/27/13 16:00	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	74		30 - 130				03/26/13 16:07	03/27/13 16:00	4

**Client Sample ID: CV0833B-CS-SP**

**Lab Sample ID: 680-88592-28**

Date Collected: 03/20/13 13:15

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 76.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	J	520	100	ug/Kg	☐	03/26/13 16:07	03/27/13 16:37	4
Acenaphthylene	32	J	210	26	ug/Kg	☐	03/26/13 16:07	03/27/13 16:37	4
Anthracene	350		43	22	ug/Kg	☐	03/26/13 16:07	03/27/13 16:37	4
Benzo[a]anthracene	980		41	20	ug/Kg	☐	03/26/13 16:07	03/27/13 16:37	4
Benzo[a]pyrene	890	J	54	27	ug/Kg	☐	03/26/13 16:07	03/27/13 16:37	4
Benzo[b]fluoranthene	1500		63	31	ug/Kg	☐	03/26/13 16:07	03/27/13 16:37	4
Benzo[g,h,i]perylene	630		100	23	ug/Kg	☐	03/26/13 16:07	03/27/13 16:37	4
Benzo[k]fluoranthene	470		41	19	ug/Kg	☐	03/26/13 16:07	03/27/13 16:37	4
Chrysene	1100	J	46	23	ug/Kg	☐	03/26/13 16:07	03/27/13 16:37	4
Dibenz[a,h]anthracene	190		100	21	ug/Kg	☐	03/26/13 16:07	03/27/13 16:37	4
Fluoranthene	2100		100	21	ug/Kg	☐	03/26/13 16:07	03/27/13 16:37	4
Fluorene	110		100	21	ug/Kg	☐	03/26/13 16:07	03/27/13 16:37	4
Indeno[1,2,3-cd]pyrene	530		100	37	ug/Kg	☐	03/26/13 16:07	03/27/13 16:37	4
1-Methylnaphthalene	240		210	23	ug/Kg	☐	03/26/13 16:07	03/27/13 16:37	4
2-Methylnaphthalene	280		210	37	ug/Kg	☐	03/26/13 16:07	03/27/13 16:37	4
Naphthalene	430		210	23	ug/Kg	☐	03/26/13 16:07	03/27/13 16:37	4
Phenanthrene	1600		41	20	ug/Kg	☐	03/26/13 16:07	03/27/13 16:37	4
Pyrene	1900		100	19	ug/Kg	☐	03/26/13 16:07	03/27/13 16:37	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	80		30 - 130				03/26/13 16:07	03/27/13 16:37	4

TestAmerica Savannah

## Client Sample Results

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

TestAmerica Job ID: 680-88592-2  
 SDG: 68088592-2

**Client Sample ID: CV0876A-CS-SP**

**Lab Sample ID: 680-88592-29**

Date Collected: 03/20/13 13:30

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 59.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	170	U	170	34	ug/Kg	☐	03/26/13 16:07	03/27/13 16:55	1
Acenaphthylene	14	J	67	8.4	ug/Kg	☐	03/26/13 16:07	03/27/13 16:55	1
Anthracene	30		14	7.1	ug/Kg	☐	03/26/13 16:07	03/27/13 16:55	1
Benzo[a]anthracene	110		13	6.6	ug/Kg	☐	03/26/13 16:07	03/27/13 16:55	1
Benzo[a]pyrene	90	J	18	8.8	ug/Kg	☐	03/26/13 16:07	03/27/13 16:55	1
Benzo[b]fluoranthene	140		21	10	ug/Kg	☐	03/26/13 16:07	03/27/13 16:55	1
Benzo[g,h,i]perylene	70		34	7.4	ug/Kg	☐	03/26/13 16:07	03/27/13 16:55	1
Benzo[k]fluoranthene	51		13	6.1	ug/Kg	☐	03/26/13 16:07	03/27/13 16:55	1
Chrysene	100	J	15	7.6	ug/Kg	☐	03/26/13 16:07	03/27/13 16:55	1
Dibenz(a,h)anthracene	24	J	34	6.9	ug/Kg	☐	03/26/13 16:07	03/27/13 16:55	1
Fluoranthene	160		34	6.7	ug/Kg	☐	03/26/13 16:07	03/27/13 16:55	1
Fluorene	18	J	34	6.9	ug/Kg	☐	03/26/13 16:07	03/27/13 16:55	1
Indeno[1,2,3-cd]pyrene	62		34	12	ug/Kg	☐	03/26/13 16:07	03/27/13 16:55	1
1-Methylnaphthalene	69		67	7.4	ug/Kg	☐	03/26/13 16:07	03/27/13 16:55	1
2-Methylnaphthalene	85		67	12	ug/Kg	☐	03/26/13 16:07	03/27/13 16:55	1
Naphthalene	77		67	7.4	ug/Kg	☐	03/26/13 16:07	03/27/13 16:55	1
Phenanthrene	130		13	6.6	ug/Kg	☐	03/26/13 16:07	03/27/13 16:55	1
Pyrene	170		34	6.2	ug/Kg	☐	03/26/13 16:07	03/27/13 16:55	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	75		30 - 130				03/26/13 16:07	03/27/13 16:55	1

**Client Sample ID: CV0876B-CS-SP**

**Lab Sample ID: 680-88592-30**

Date Collected: 03/20/13 13:40

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 88.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	450	U	450	90	ug/Kg	☐	03/26/13 16:07	03/27/13 17:13	4
Acenaphthylene	49	J	180	22	ug/Kg	☐	03/26/13 16:07	03/27/13 17:13	4
Anthracene	63		38	19	ug/Kg	☐	03/26/13 16:07	03/27/13 17:13	4
Benzo[a]anthracene	280		36	17	ug/Kg	☐	03/26/13 16:07	03/27/13 17:13	4
Benzo[a]pyrene	310	J	47	23	ug/Kg	☐	03/26/13 16:07	03/27/13 17:13	4
Benzo[b]fluoranthene	410		55	27	ug/Kg	☐	03/26/13 16:07	03/27/13 17:13	4
Benzo[g,h,i]perylene	220		90	20	ug/Kg	☐	03/26/13 16:07	03/27/13 17:13	4
Benzo[k]fluoranthene	160		36	16	ug/Kg	☐	03/26/13 16:07	03/27/13 17:13	4
Chrysene	530	J	40	20	ug/Kg	☐	03/26/13 16:07	03/27/13 17:13	4
Dibenz(a,h)anthracene	61	J	90	18	ug/Kg	☐	03/26/13 16:07	03/27/13 17:13	4
Fluoranthene	450		90	18	ug/Kg	☐	03/26/13 16:07	03/27/13 17:13	4
Fluorene	50	J	90	18	ug/Kg	☐	03/26/13 16:07	03/27/13 17:13	4
Indeno[1,2,3-cd]pyrene	170		90	32	ug/Kg	☐	03/26/13 16:07	03/27/13 17:13	4
1-Methylnaphthalene	880		180	20	ug/Kg	☐	03/26/13 16:07	03/27/13 17:13	4
2-Methylnaphthalene	1100		180	32	ug/Kg	☐	03/26/13 16:07	03/27/13 17:13	4
Naphthalene	690		180	20	ug/Kg	☐	03/26/13 16:07	03/27/13 17:13	4
Phenanthrene	670		36	17	ug/Kg	☐	03/26/13 16:07	03/27/13 17:13	4
Pyrene	490		90	17	ug/Kg	☐	03/26/13 16:07	03/27/13 17:13	4
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	80		30 - 130				03/26/13 16:07	03/27/13 17:13	4

TestAmerica Savannah

## Client Sample Results

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

TestAmerica Job ID: 680-88592-2  
 SDG: 68088592-2

**Client Sample ID: FM0168A-CS-SP**

**Lab Sample ID: 680-88592-31**

Date Collected: 03/20/13 14:47

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 73.6

**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	27	ug/Kg	☐	03/26/13 16:07	03/27/13 17:31	1
Acenaphthylene	38	J	54	6.8	ug/Kg	☐	03/26/13 16:07	03/27/13 17:31	1
Anthracene	55		11	5.7	ug/Kg	☐	03/26/13 16:07	03/27/13 17:31	1
Benzo[a]anthracene	270		11	5.3	ug/Kg	☐	03/26/13 16:07	03/27/13 17:31	1
Benzo[a]pyrene	260	J	14	7.0	ug/Kg	☐	03/26/13 16:07	03/27/13 17:31	1
Benzo[b]fluoranthene	480		16	8.2	ug/Kg	☐	03/26/13 16:07	03/27/13 17:31	1
Benzo[g,h,i]perylene	180		27	5.9	ug/Kg	☐	03/26/13 16:07	03/27/13 17:31	1
Benzo[k]fluoranthene	170		11	4.9	ug/Kg	☐	03/26/13 16:07	03/27/13 17:31	1
Chrysene	320	J	12	6.1	ug/Kg	☐	03/26/13 16:07	03/27/13 17:31	1
Dibenz(a,h)anthracene	60		27	5.5	ug/Kg	☐	03/26/13 16:07	03/27/13 17:31	1
Fluoranthene	610		27	5.4	ug/Kg	☐	03/26/13 16:07	03/27/13 17:31	1
Fluorene	19	J	27	5.5	ug/Kg	☐	03/26/13 16:07	03/27/13 17:31	1
Indeno[1,2,3-cd]pyrene	130		27	9.6	ug/Kg	☐	03/26/13 16:07	03/27/13 17:31	1
1-Methylnaphthalene	98		54	5.9	ug/Kg	☐	03/26/13 16:07	03/27/13 17:31	1
2-Methylnaphthalene	96		54	9.6	ug/Kg	☐	03/26/13 16:07	03/27/13 17:31	1
Naphthalene	80		54	5.9	ug/Kg	☐	03/26/13 16:07	03/27/13 17:31	1
Phenanthrene	420		11	5.3	ug/Kg	☐	03/26/13 16:07	03/27/13 17:31	1
Pyrene	530		27	5.0	ug/Kg	☐	03/26/13 16:07	03/27/13 17:31	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	82		30 - 130				03/26/13 16:07	03/27/13 17:31	1

**Client Sample ID: FM0168B-CS-SP**

**Lab Sample ID: 680-88592-32**

Date Collected: 03/20/13 14:55

Matrix: Solid

Date Received: 03/22/13 09:39

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	☐	03/26/13 16:07	03/27/13 17:49	4
Acenaphthylene	170	J	200	25	ug/Kg	☐	03/26/13 16:07	03/27/13 17:49	4
Anthracene	180		42	21	ug/Kg	☐	03/26/13 16:07	03/27/13 17:49	4
Benzo[a]anthracene	750		40	19	ug/Kg	☐	03/26/13 16:07	03/27/13 17:49	4
Benzo[a]pyrene	720	J	52	26	ug/Kg	☐	03/26/13 16:07	03/27/13 17:49	4
Benzo[b]fluoranthene	1300		61	30	ug/Kg	☐	03/26/13 16:07	03/27/13 17:49	4
Benzo[g,h,i]perylene	660		100	22	ug/Kg	☐	03/26/13 16:07	03/27/13 17:49	4
Benzo[k]fluoranthene	450		40	18	ug/Kg	☐	03/26/13 16:07	03/27/13 17:49	4
Chrysene	830	J	45	22	ug/Kg	☐	03/26/13 16:07	03/27/13 17:49	4
Dibenz(a,h)anthracene	200		100	20	ug/Kg	☐	03/26/13 16:07	03/27/13 17:49	4
Fluoranthene	1400		100	20	ug/Kg	☐	03/26/13 16:07	03/27/13 17:49	4
Fluorene	65	J	100	20	ug/Kg	☐	03/26/13 16:07	03/27/13 17:49	4
Indeno[1,2,3-cd]pyrene	500		100	35	ug/Kg	☐	03/26/13 16:07	03/27/13 17:49	4
1-Methylnaphthalene	150	J	200	22	ug/Kg	☐	03/26/13 16:07	03/27/13 17:49	4
2-Methylnaphthalene	170	J	200	35	ug/Kg	☐	03/26/13 16:07	03/27/13 17:49	4
Naphthalene	160	J	200	22	ug/Kg	☐	03/26/13 16:07	03/27/13 17:49	4
Phenanthrene	710		40	19	ug/Kg	☐	03/26/13 16:07	03/27/13 17:49	4
Pyrene	1200		100	18	ug/Kg	☐	03/26/13 16:07	03/27/13 17:49	4
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	81		30 - 130				03/26/13 16:07	03/27/13 17:49	4

TestAmerica Savannah



## ANALYTICAL REPORT

Job Number: 680-88592-2

SDG Number: 68088592-2

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  
4/3/2013 12:01 PM

---

Designee for  
Lisa Harvey  
Project Manager II  
lisa.harvey@testamericainc.com  
04/03/2013

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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**TestAmerica Laboratories, Inc.**

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## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-88592-2**

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 03/22/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.6 C.

### SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1323A-GS (680-88592-21), CV1323B-GS (680-88592-22), CV1323C-GS (680-88592-23), CV1323D-GS (680-88592-24), CV0763A-CS-SP (680-88592-25), CV0763B-CS-SP (680-88592-26), CV0833A-CS-SP (680-88592-27), CV0833B-CS-SP (680-88592-28), CV0876A-CS-SP (680-88592-29), CV0876B-CS-SP (680-88592-30), FM0168A-CS-SP (680-88592-31) and FM0168B-CS-SP (680-88592-32) were analyzed for Semivolatile Organic Compounds by GCMS -Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/26/2013 and 03/27/2013 and analyzed on 03/27/2013 and 03/28/2013.

Samples CV1323A-GS (680-88592-21)[4X], CV0833A-CS-SP (680-88592-27)[4X], CV0833B-CS-SP (680-88592-28)[4X], CV0876B-CS-SP (680-88592-30)[4X] and FM0168B-CS-SP (680-88592-32)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV1323A-GS (680-88592-21) in batch 660-136038. Benzo[b]fluoranthene and Indeno[1,2,3-cd]pyrene 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: 680-88592-2

Sdg Number: 68088592-2

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
680-88592-21	CV1323A-GS	Solid	03/20/2013 1400	03/22/2013 0939
680-88592-21MS	CV1323A-GS	Solid	03/20/2013 1400	03/22/2013 0939
680-88592-21MSD	CV1323A-GS	Solid	03/20/2013 1400	03/22/2013 0939
680-88592-22	CV1323B-GS	Solid	03/20/2013 1410	03/22/2013 0939
680-88592-23	CV1323C-GS	Solid	03/20/2013 1415	03/22/2013 0939
680-88592-24	CV1323D-GS	Solid	03/20/2013 1420	03/22/2013 0939
680-88592-25	CV0763A-CS-SP	Solid	03/20/2013 1401	03/22/2013 0939
680-88592-26	CV0763B-CS-SP	Solid	03/20/2013 1415	03/22/2013 0939
680-88592-27	CV0833A-CS-SP	Solid	03/20/2013 1305	03/22/2013 0939
680-88592-28	CV0833B-CS-SP	Solid	03/20/2013 1315	03/22/2013 0939
680-88592-29	CV0876A-CS-SP	Solid	03/20/2013 1330	03/22/2013 0939
680-88592-30	CV0876B-CS-SP	Solid	03/20/2013 1340	03/22/2013 0939
680-88592-31	FM0168A-CS-SP	Solid	03/20/2013 1447	03/22/2013 0939
680-88592-32	FM0168B-CS-SP	Solid	03/20/2013 1455	03/22/2013 0939

## METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88592-2  
Sdg Number: 68088592-2

<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: 680-88592-2

Sdg Number: 68088592-2

<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: 680-88592-2

Sdg Number: 68088592-2

<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
	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



## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88592-2

Sdg Number: 68088592-2

### 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: 660-135800</b>					
LCS 660-135800/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135800/1-A	Method Blank	T	Solid	3546	
680-88592-A-19-B MS	Matrix Spike	T	Solid	3546	
680-88592-A-19-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88592-22	CV1323B-GS	T	Solid	3546	
680-88592-23	CV1323C-GS	T	Solid	3546	
680-88592-24	CV1323D-GS	T	Solid	3546	
680-88592-25	CV0763A-CS-SP	T	Solid	3546	
680-88592-26	CV0763B-CS-SP	T	Solid	3546	
680-88592-27	CV0833A-CS-SP	T	Solid	3546	
680-88592-28	CV0833B-CS-SP	T	Solid	3546	
680-88592-29	CV0876A-CS-SP	T	Solid	3546	
680-88592-30	CV0876B-CS-SP	T	Solid	3546	
680-88592-31	FM0168A-CS-SP	T	Solid	3546	
680-88592-32	FM0168B-CS-SP	T	Solid	3546	
<b>Prep Batch: 660-135822</b>					
LCS 660-135822/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135822/1-A	Method Blank	T	Solid	3546	
680-88592-21	CV1323A-GS	T	Solid	3546	
680-88592-21MS	Matrix Spike	T	Solid	3546	
680-88592-21MSD	Matrix Spike Duplicate	T	Solid	3546	
<b>Analysis Batch:660-135830</b>					
LCS 660-135800/2-A	Lab Control Sample	T	Solid	8270C LL	660-135800
MB 660-135800/1-A	Method Blank	T	Solid	8270C LL	660-135800
680-88592-A-19-B MS	Matrix Spike	T	Solid	8270C LL	660-135800
680-88592-A-19-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135800
680-88592-22	CV1323B-GS	T	Solid	8270C LL	660-135800
680-88592-23	CV1323C-GS	T	Solid	8270C LL	660-135800
680-88592-24	CV1323D-GS	T	Solid	8270C LL	660-135800
680-88592-25	CV0763A-CS-SP	T	Solid	8270C LL	660-135800
680-88592-26	CV0763B-CS-SP	T	Solid	8270C LL	660-135800
680-88592-27	CV0833A-CS-SP	T	Solid	8270C LL	660-135800
680-88592-28	CV0833B-CS-SP	T	Solid	8270C LL	660-135800
680-88592-29	CV0876A-CS-SP	T	Solid	8270C LL	660-135800
680-88592-30	CV0876B-CS-SP	T	Solid	8270C LL	660-135800
680-88592-31	FM0168A-CS-SP	T	Solid	8270C LL	660-135800
680-88592-32	FM0168B-CS-SP	T	Solid	8270C LL	660-135800

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88592-2

Sdg Number: 68088592-2

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS Semi VOA</b>					
<b>Analysis Batch:660-136038</b>					
LCS 660-135822/2-A	Lab Control Sample	T	Solid	8270C LL	660-135822
MB 660-135822/1-A	Method Blank	T	Solid	8270C LL	660-135822
680-88592-21	CV1323A-GS	T	Solid	8270C LL	660-135822
680-88592-21MS	Matrix Spike	T	Solid	8270C LL	660-135822
680-88592-21MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135822

**Report Basis**

T = Total

### General Chemistry

<b>Analysis Batch:660-135737</b>					
MB 660-135737/1	Method Blank	T	Solid	Moisture	
680-88592-A-19 MS	Matrix Spike	T	Solid	Moisture	
680-88592-A-19 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88592-21	CV1323A-GS	T	Solid	Moisture	
680-88592-21MS	Matrix Spike	T	Solid	Moisture	
680-88592-21MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88592-22	CV1323B-GS	T	Solid	Moisture	
680-88592-23	CV1323C-GS	T	Solid	Moisture	
680-88592-24	CV1323D-GS	T	Solid	Moisture	
680-88592-25	CV0763A-CS-SP	T	Solid	Moisture	
680-88592-26	CV0763B-CS-SP	T	Solid	Moisture	
680-88592-27	CV0833A-CS-SP	T	Solid	Moisture	
680-88592-28	CV0833B-CS-SP	T	Solid	Moisture	
680-88592-29	CV0876A-CS-SP	T	Solid	Moisture	
680-88592-30	CV0876B-CS-SP	T	Solid	Moisture	
680-88592-31	FM0168A-CS-SP	T	Solid	Moisture	
680-88592-32	FM0168B-CS-SP	T	Solid	Moisture	

**Report Basis**

T = Total

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88592-2SDG No.: 68088592-2Instrument ID: BSMC5973 Analysis Batch Number: 134776Lab Sample ID: IC 660-134776/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 11:57 Lab File ID: 1CB22003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:13

Lab Sample ID: IC 660-134776/4 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 12:16 Lab File ID: 1CB22004.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.22	Split Peak	cantins	02/22/13 14:14

Lab Sample ID: IC 660-134776/5 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 12:34 Lab File ID: 1CB22005.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:14

Lab Sample ID: IC 660-134776/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 12:53 Lab File ID: 1CB22006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:14

Lab Sample ID: ICIS 660-134776/7 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 13:11 Lab File ID: 1CB22007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:11

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88592-2SDG No.: 68088592-2Instrument ID: BSMC5973 Analysis Batch Number: 134776Lab Sample ID: IC 660-134776/8 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 13:29 Lab File ID: 1CB22008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:15

Lab Sample ID: IC 660-134776/9 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 13:48 Lab File ID: 1CB22009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.24	Split Peak	cantins	02/22/13 14:15

Lab Sample ID: ICV 660-134776/10 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 14:06 Lab File ID: 1CB22010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:21

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88592-2SDG No.: 68088592-2Instrument ID: BSMC5973 Analysis Batch Number: 135830Lab Sample ID: CCVIS 660-135830/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/27/13 10:35 Lab File ID: 1CC27003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	03/27/13 10:50

Lab Sample ID: LCS 660-135800/2-A Client Sample ID: \_\_\_\_\_Date Analyzed: 03/27/13 11:44 Lab File ID: 1CC27006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	03/27/13 12:18

Lab Sample ID: 680-88592-A-19-B MS Client Sample ID: \_\_\_\_\_Date Analyzed: 03/27/13 12:39 Lab File ID: 1CC27009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.04	Split Peak	cantins	03/27/13 13:34

Lab Sample ID: 680-88592-A-19-C MSD Client Sample ID: \_\_\_\_\_Date Analyzed: 03/27/13 12:57 Lab File ID: 1CC27010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	03/27/13 13:35

Lab Sample ID: 680-88592-22 Client Sample ID: CV1323B-GSDate Analyzed: 03/27/13 14:29 Lab File ID: 1CC27015.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Pyrene	6.77	Baseline Event	cantins	04/01/13 11:14
Benzo[g,h,i]perylene	10.39	Baseline Event	cantins	04/01/13 11:15

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88592-2SDG No.: 68088592-2Instrument ID: BSMC5973 Analysis Batch Number: 135830Lab Sample ID: 680-88592-23 Client Sample ID: CV1323C-GSDate Analyzed: 03/27/13 14:47 Lab File ID: 1CC27016.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoranthene	6.62	Baseline Event	cantins	04/01/13 11:16
Pyrene	6.78	Baseline Event	cantins	04/01/13 11:15
Benzo[b]fluoranthene	8.54	Split Peak	cantins	04/01/13 11:17
Benzo[k]fluoranthene	8.55	Baseline Event	cantins	04/01/13 11:17
Benzo[g,h,i]perylene	10.41	Baseline Event	cantins	04/01/13 11:18

Lab Sample ID: 680-88592-24 Client Sample ID: CV1323D-GSDate Analyzed: 03/27/13 15:05 Lab File ID: 1CC27017.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	04/01/13 11:19
Dibenz(a,h)anthracene	10.07	Baseline Event	cantins	04/01/13 11:19

Lab Sample ID: 680-88592-25 Client Sample ID: CV0763A-CS-SPDate Analyzed: 03/27/13 15:24 Lab File ID: 1CC27018.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	04/01/13 11:21
Benzo[g,h,i]perylene	10.39	Baseline Event	cantins	04/01/13 11:21

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88592-2SDG No.: 68088592-2Instrument ID: BSMC5973 Analysis Batch Number: 135830Lab Sample ID: 680-88592-26 Client Sample ID: CV0763B-CS-SPDate Analyzed: 03/27/13 15:42 Lab File ID: 1CC27019.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.54	Split Peak	cantins	04/01/13 11:22
Benzo[k]fluoranthene	8.56	Baseline Event	cantins	04/01/13 11:22
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	04/01/13 11:23
Dibenz(a,h)anthracene	10.06	Baseline Event	cantins	04/01/13 11:23

Lab Sample ID: 680-88592-27 Client Sample ID: CV0833A-CS-SPDate Analyzed: 03/27/13 16:00 Lab File ID: 1CC27020.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.54	Split Peak	cantins	04/01/13 11:24
Benzo[k]fluoranthene	8.56	Baseline Event	cantins	04/01/13 11:24
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	04/01/13 11:24
Benzo[g,h,i]perylene	10.39	Baseline Event	cantins	04/01/13 11:24

Lab Sample ID: 680-88592-28 Client Sample ID: CV0833B-CS-SPDate Analyzed: 03/27/13 16:37 Lab File ID: 1CC27022.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	04/01/13 11:25

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88592-2SDG No.: 68088592-2Instrument ID: BSMC5973 Analysis Batch Number: 135830Lab Sample ID: 680-88592-29 Client Sample ID: CV0876A-CS-SPDate Analyzed: 03/27/13 16:55 Lab File ID: 1CC27023.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.54	Split Peak	cantins	04/01/13 11:26
Benzo[k]fluoranthene	8.56	Baseline Event	cantins	04/01/13 11:26
Indeno[1,2,3-cd]pyrene	10.04	Split Peak	cantins	04/01/13 11:27
Dibenz(a,h)anthracene	10.07	Baseline Event	cantins	04/01/13 11:26
Benzo[g,h,i]perylene	10.40	Baseline Event	cantins	04/01/13 11:26

Lab Sample ID: 680-88592-30 Client Sample ID: CV0876B-CS-SPDate Analyzed: 03/27/13 17:13 Lab File ID: 1CC27024.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	04/01/13 11:29

Lab Sample ID: 680-88592-31 Client Sample ID: FM0168A-CS-SPDate Analyzed: 03/27/13 17:31 Lab File ID: 1CC27025.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.55	Split Peak	cantins	04/01/13 11:29
Benzo[k]fluoranthene	8.56	Baseline Event	cantins	04/01/13 11:30
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	04/01/13 11:30



## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88592-2SDG No.: 68088592-2Instrument ID: BSMC5973 Analysis Batch Number: 135830Lab Sample ID: 680-88592-32 Client Sample ID: FM0168B-CS-SPDate Analyzed: 03/27/13 17:49 Lab File ID: 1CC27026.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.54	Split Peak	cantins	04/01/13 11:31
Benzo[k]fluoranthene	8.56	Baseline Event	cantins	04/01/13 11:31
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	04/01/13 11:32
Benzo[g,h,i]perylene	10.40	Baseline Event	cantins	04/01/13 11:31

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88592-2SDG No.: 68088592-2Instrument ID: BSMD5973 Analysis Batch Number: 134781Lab Sample ID: IC 660-134781/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 12:13 Lab File ID: 1DB22003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	14.97	Baseline Event	cantins	02/22/13 14:57
Benzo[g,h,i]perylene	15.38	Baseline Event	cantins	02/22/13 14:57

Lab Sample ID: IC 660-134781/4 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 12:35 Lab File ID: 1DB22004.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.93	Split Peak	cantins	02/22/13 14:58

Lab Sample ID: IC 660-134781/5 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 12:58 Lab File ID: 1DB22005.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.94	Split Peak	cantins	02/22/13 14:58

Lab Sample ID: IC 660-134781/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 13:21 Lab File ID: 1DB22006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.94	Split Peak	cantins	02/22/13 14:59

Lab Sample ID: IC 660-134781/9 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 14:28 Lab File ID: 1DB22009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.00	Split Peak	cantins	02/22/13 15:00

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88592-2SDG No.: 68088592-2Instrument ID: BSMD5973 Analysis Batch Number: 134781Lab Sample ID: ICV 660-134781/10 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 14:51 Lab File ID: 1DB22010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	9.32	Baseline Event	cantins	02/22/13 15:27

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88592-2SDG No.: 68088592-2Instrument ID: BSMD5973 Analysis Batch Number: 136038Lab Sample ID: CCVIS 660-136038/9 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/28/13 14:57 Lab File ID: 1DC28009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.83	Split Peak	cantins	03/28/13 15:22

Lab Sample ID: LCS 660-135822/2-A Client Sample ID: \_\_\_\_\_Date Analyzed: 03/28/13 16:05 Lab File ID: 1DC28012.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.80	Split Peak	cantins	04/02/13 13:49

Lab Sample ID: 680-88592-21 Client Sample ID: CV1323A-GSDate Analyzed: 03/28/13 16:27 Lab File ID: 1DC28013.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.80	Split Peak	cantins	04/02/13 13:54

Lab Sample ID: 680-88592-21 MS Client Sample ID: CV1323A-GS MSDate Analyzed: 03/28/13 16:50 Lab File ID: 1DC28014.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.79	Split Peak	cantins	04/02/13 13:55

Lab Sample ID: 680-88592-21 MSD Client Sample ID: CV1323A-GS MSDDate Analyzed: 03/28/13 17:12 Lab File ID: 1DC28015.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.79	Split Peak	cantins	04/02/13 13:56

# 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.: 680-88592-2

SDG No.: 68088592-2

Matrix: Solid

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV1323A-GS	680-88592-21	50
CV1323B-GS	680-88592-22	85
CV1323C-GS	680-88592-23	94
CV1323D-GS	680-88592-24	49
CV0763A-CS-SP	680-88592-25	80
CV0763B-CS-SP	680-88592-26	71
CV0833A-CS-SP	680-88592-27	74
CV0833B-CS-SP	680-88592-28	80
CV0876A-CS-SP	680-88592-29	75
CV0876B-CS-SP	680-88592-30	80
FM0168A-CS-SP	680-88592-31	82
FM0168B-CS-SP	680-88592-32	81
	MB 660-135800/1-A	69
	MB 660-135822/1-A	65
	LCS 660-135800/2-A	73
	LCS 660-135822/2-A	70
	680-88592-A-19-B MS	55
CV1323A-GS MS	680-88592-21 MS	57
	680-88592-A-19-C MSD	69
CV1323A-GS MSD	680-88592-21 MSD	63

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.: 680-88592-2  
 SDG No.: 68088592-2  
 Matrix: Solid Level: Low Lab File ID: 1CC27006.D  
 Lab ID: LCS 660-135800/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	670	534	80	39-130	
Acenaphthylene	670	518	77	38-130	
Anthracene	670	533	80	37-130	
Benzo[a]anthracene	670	502	75	40-130	
Benzo[a]pyrene	670	483	72	49-130	
Benzo[b]fluoranthene	670	554	83	37-130	
Benzo[g,h,i]perylene	670	493	74	32-130	
Benzo[k]fluoranthene	670	514	77	32-130	
Chrysene	670	494	74	41-130	
Dibenz(a,h)anthracene	670	525	78	27-130	
Fluoranthene	670	540	81	40-130	
Fluorene	670	558	83	40-130	
Indeno[1,2,3-cd]pyrene	670	495	74	30-130	
1-Methylnaphthalene	670	553	83	31-130	
2-Methylnaphthalene	670	503	75	33-130	
Naphthalene	670	505	75	36-130	
Phenanthrene	670	503	75	42-130	
Pyrene	670	517	77	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.: 680-88592-2  
 SDG No.: 68088592-2  
 Matrix: Solid Level: Low Lab File ID: 1DC28012.D  
 Lab ID: LCS 660-135822/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	670	455	68	39-130	
Acenaphthylene	670	472	70	38-130	
Anthracene	670	464	69	37-130	
Benzo[a]anthracene	670	520	78	40-130	
Benzo[a]pyrene	670	459	69	49-130	
Benzo[b]fluoranthene	670	503	75	37-130	
Benzo[g,h,i]perylene	670	486	73	32-130	
Benzo[k]fluoranthene	670	484	72	32-130	
Chrysene	670	464	69	41-130	
Dibenz(a,h)anthracene	670	527	79	27-130	
Fluoranthene	670	488	73	40-130	
Fluorene	670	491	73	40-130	
Indeno[1,2,3-cd]pyrene	670	469	70	30-130	
1-Methylnaphthalene	670	512	76	31-130	
2-Methylnaphthalene	670	499	75	33-130	
Naphthalene	670	470	70	36-130	
Phenanthrene	670	461	69	42-130	
Pyrene	670	464	69	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.: 680-88592-2  
 SDG No.: 68088592-2  
 Matrix: Solid Level: Low Lab File ID: 1CC27009.D  
 Lab ID: 680-88592-A-19-B MS Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	1000	600 U	681	68	39-130	
Acenaphthylene	1000	31 J	617	58	38-130	
Anthracene	1000	75	583	51	37-130	
Benzo[a]anthracene	1000	650	1120	47	40-130	
Benzo[a]pyrene	1000	740	1280	54	49-130	
Benzo[b]fluoranthene	1000	1500	2010	50	37-130	
Benzo[g,h,i]perylene	1000	800	1370	56	32-130	
Benzo[k]fluoranthene	1000	410	1150	74	32-130	
Chrysene	1000	670	1240	57	41-130	
Dibenz(a,h)anthracene	1000	270	768	50	27-130	
Fluoranthene	1000	720	1280	55	40-130	
Fluorene	1000	120 U	671	67	40-130	
Indeno[1,2,3-cd]pyrene	1000	750	1110	35	30-130	
1-Methylnaphthalene	1000	60 J	781	72	31-130	
2-Methylnaphthalene	1000	110 J	690	58	33-130	
Naphthalene	1000	160 J	865	70	36-130	
Phenanthrene	1000	370	870	50	42-130	
Pyrene	1000	690	1240	54	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.: 680-88592-2  
 SDG No.: 68088592-2  
 Matrix: Solid Level: Low Lab File ID: 1DC28014.D  
 Lab ID: 680-88592-21 MS Client ID: CV1323A-GS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	856	500 U	465 J	54	39-130	
Acenaphthylene	856	200 U	493	58	38-130	
Anthracene	856	41 J	478	51	37-130	
Benzo[a]anthracene	856	150	561	48	40-130	
Benzo[a]pyrene	856	120	467	41	49-130	F
Benzo[b]fluoranthene	856	230	511	33	37-130	F
Benzo[g,h,i]perylene	856	130	485	41	32-130	
Benzo[k]fluoranthene	856	63	473	48	32-130	
Chrysene	856	200	484	33	41-130	F
Dibenz(a,h)anthracene	856	46 J	525	56	27-130	
Fluoranthene	856	160	509	41	40-130	
Fluorene	856	99 U	502	59	40-130	
Indeno[1,2,3-cd]pyrene	856	87 J	474	45	30-130	
1-Methylnaphthalene	856	250	535	33	31-130	
2-Methylnaphthalene	856	250	520	31	33-130	F
Naphthalene	856	190 J	507	37	36-130	
Phenanthrene	856	230	480	30	42-130	F
Pyrene	856	140	477	39	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.: 680-88592-2  
 SDG No.: 68088592-2  
 Matrix: Solid Level: Low Lab File ID: 1CC27010.D  
 Lab ID: 680-88592-A-19-C MSD Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	1000	616	61	10	40	39-130	
Acenaphthylene	1000	693	66	12	40	38-130	
Anthracene	1000	763	69	27	40	37-130	
Benzo[a]anthracene	1000	1550	89	32	40	40-130	
Benzo[a]pyrene	1000	1700	95	28	40	49-130	
Benzo[b]fluoranthene	1000	3480	197	53	40	37-130	F
Benzo[g,h,i]perylene	1000	1900	109	32	40	32-130	
Benzo[k]fluoranthene	1000	1420	100	21	40	32-130	
Chrysene	1000	1760	109	35	40	41-130	
Dibenz(a,h)anthracene	1000	1010	74	27	40	27-130	
Fluoranthene	1000	1780	105	33	40	40-130	
Fluorene	1000	829	83	21	40	40-130	
Indeno[1,2,3-cd]pyrene	1000	1740	99	44	40	30-130	F
1-Methylnaphthalene	1000	882	82	12	40	31-130	
2-Methylnaphthalene	1000	985	87	35	40	33-130	
Naphthalene	1000	946	78	9	40	36-130	
Phenanthrene	1000	1170	80	30	40	42-130	
Pyrene	1000	1580	89	24	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.: 680-88592-2  
 SDG No.: 68088592-2  
 Matrix: Solid Level: Low Lab File ID: 1DC28015.D  
 Lab ID: 680-88592-21 MSD Client ID: CV1323A-GS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	869	536	62	14	40	39-130	
Acenaphthylene	869	543	63	10	40	38-130	
Anthracene	869	550	59	14	40	37-130	
Benzo[a]anthracene	869	633	56	12	40	40-130	
Benzo[a]pyrene	869	535	48	13	40	49-130	F
Benzo[b]fluoranthene	869	591	42	15	40	37-130	
Benzo[g,h,i]perylene	869	564	50	15	40	32-130	
Benzo[k]fluoranthene	869	571	58	19	40	32-130	
Chrysene	869	558	41	14	40	41-130	
Dibenz(a,h)anthracene	869	604	64	14	40	27-130	
Fluoranthene	869	571	47	12	40	40-130	
Fluorene	869	559	64	11	40	40-130	
Indeno[1,2,3-cd]pyrene	869	527	51	11	40	30-130	
1-Methylnaphthalene	869	602	40	12	40	31-130	
2-Methylnaphthalene	869	580	37	11	40	33-130	
Naphthalene	869	552	42	9	40	36-130	
Phenanthrene	869	553	37	14	40	42-130	F
Pyrene	869	552	47	15	40	44-130	

# 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.: 680-88592-2  
 SDG No.: 68088592-2  
 Lab File ID: 1CC27005.D Lab Sample ID: MB 660-135800/1-A  
 Matrix: Solid Date Extracted: 03/26/2013 16:07  
 Instrument ID: BSMC5973 Date Analyzed: 03/27/2013 11:26  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135800/2-A	1CC27006.D	03/27/2013 11:44
	680-88592-A-19-B MS	1CC27009.D	03/27/2013 12:39
	680-88592-A-19-C MSD	1CC27010.D	03/27/2013 12:57
CV1323B-GS	680-88592-22	1CC27015.D	03/27/2013 14:29
CV1323C-GS	680-88592-23	1CC27016.D	03/27/2013 14:47
CV1323D-GS	680-88592-24	1CC27017.D	03/27/2013 15:05
CV0763A-CS-SP	680-88592-25	1CC27018.D	03/27/2013 15:24
CV0763B-CS-SP	680-88592-26	1CC27019.D	03/27/2013 15:42
CV0833A-CS-SP	680-88592-27	1CC27020.D	03/27/2013 16:00
CV0833B-CS-SP	680-88592-28	1CC27022.D	03/27/2013 16:37
CV0876A-CS-SP	680-88592-29	1CC27023.D	03/27/2013 16:55
CV0876B-CS-SP	680-88592-30	1CC27024.D	03/27/2013 17:13
FM0168A-CS-SP	680-88592-31	1CC27025.D	03/27/2013 17:31
FM0168B-CS-SP	680-88592-32	1CC27026.D	03/27/2013 17:49

FORM IV  
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
SDG No.: 68088592-2  
Lab File ID: 1DC28011.D Lab Sample ID: MB 660-135822/1-A  
Matrix: Solid Date Extracted: 03/27/2013 11:19  
Instrument ID: BSMD5973 Date Analyzed: 03/28/2013 15:42  
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135822/2-A	1DC28012.D	03/28/2013 16:05
CV1323A-GS	680-88592-21	1DC28013.D	03/28/2013 16:27
CV1323A-GS MS	680-88592-21 MS	1DC28014.D	03/28/2013 16:50
CV1323A-GS MSD	680-88592-21 MSD	1DC28015.D	03/28/2013 17:12

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

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Lab File ID: 1CB22002.D DFTPP Injection Date: 02/22/2013  
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:41  
 Analysis Batch No.: 134776

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	42.3
68	Less than 2.0 % of mass 69	0.6 (1.1)1
69	Mass 69 relative abundance	59.2
70	Less than 2.0 % of mass 69	0.3 (0.4)1
127	10.0 - 80.0 % of mass 198	53.6
197	Less than 2.0 % of mass 198	1.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	8.6
275	10.0 - 60.0 % of mass 198	19.2
365	Greater than 1.0 % of mass 198	2.0
441	Present but less than mass 443	7.5
442	Greater than 50.0 % of mass 198	52.1
443	15.0 - 24.0 % of mass 442	8.7 (16.7)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 660-134776/3	1CB22003.D	02/22/2013	11:57
	IC 660-134776/4	1CB22004.D	02/22/2013	12:16
	IC 660-134776/5	1CB22005.D	02/22/2013	12:34
	IC 660-134776/6	1CB22006.D	02/22/2013	12:53
	ICIS 660-134776/7	1CB22007.D	02/22/2013	13:11
	IC 660-134776/8	1CB22008.D	02/22/2013	13:29
	IC 660-134776/9	1CB22009.D	02/22/2013	13:48
	ICV 660-134776/10	1CB22010.D	02/22/2013	14:06

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

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Lab File ID: 1CC27002.D DFTPP Injection Date: 03/27/2013  
 Instrument ID: BSMC5973 DFTPP Injection Time: 10:18  
 Analysis Batch No.: 135830

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	38.7
68	Less than 2.0 % of mass 69	1.0 (2.0)1
69	Mass 69 relative abundance	49.9
70	Less than 2.0 % of mass 69	0.4 (0.8)1
127	10.0 - 80.0 % of mass 198	47.6
197	Less than 2.0 % of mass 198	1.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.2
275	10.0 - 60.0 % of mass 198	18.4
365	Greater than 1.0 % of mass 198	2.7
441	Present but less than mass 443	8.2
442	Greater than 50.0 % of mass 198	55.2
443	15.0 - 24.0 % of mass 442	12.1 (21.9)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 660-135830/3	1CC27003.D	03/27/2013	10:35
	MB 660-135800/1-A	1CC27005.D	03/27/2013	11:26
	LCS 660-135800/2-A	1CC27006.D	03/27/2013	11:44
	680-88592-A-19-B MS	1CC27009.D	03/27/2013	12:39
	680-88592-A-19-C MSD	1CC27010.D	03/27/2013	12:57
CV1323B-GS	680-88592-22	1CC27015.D	03/27/2013	14:29
CV1323C-GS	680-88592-23	1CC27016.D	03/27/2013	14:47
CV1323D-GS	680-88592-24	1CC27017.D	03/27/2013	15:05
CV0763A-CS-SP	680-88592-25	1CC27018.D	03/27/2013	15:24
CV0763B-CS-SP	680-88592-26	1CC27019.D	03/27/2013	15:42
CV0833A-CS-SP	680-88592-27	1CC27020.D	03/27/2013	16:00
CV0833B-CS-SP	680-88592-28	1CC27022.D	03/27/2013	16:37
CV0876A-CS-SP	680-88592-29	1CC27023.D	03/27/2013	16:55
CV0876B-CS-SP	680-88592-30	1CC27024.D	03/27/2013	17:13
FM0168A-CS-SP	680-88592-31	1CC27025.D	03/27/2013	17:31
FM0168B-CS-SP	680-88592-32	1CC27026.D	03/27/2013	17:49



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

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Lab File ID: 1DB22002.D DFTPP Injection Date: 02/22/2013  
 Instrument ID: BSMD5973 DFTPP Injection Time: 11:57  
 Analysis Batch No.: 134781

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	46.9
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	46.6
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 198	50.9
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	7.9
275	10.0 - 60.0 % of mass 198	25.1
365	Greater than 1.0 % of mass 198	2.9
441	Present but less than mass 443	10.4
442	Greater than 50.0 % of mass 198	64.5
443	15.0 - 24.0 % of mass 442	13.2 (20.5)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 660-134781/3	1DB22003.D	02/22/2013	12:13
	IC 660-134781/4	1DB22004.D	02/22/2013	12:35
	IC 660-134781/5	1DB22005.D	02/22/2013	12:58
	IC 660-134781/6	1DB22006.D	02/22/2013	13:21
	ICIS 660-134781/7	1DB22007.D	02/22/2013	13:43
	IC 660-134781/8	1DB22008.D	02/22/2013	14:06
	IC 660-134781/9	1DB22009.D	02/22/2013	14:28
	ICV 660-134781/10	1DB22010.D	02/22/2013	14:51

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

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Lab File ID: 1DC28002.D DFTPP Injection Date: 03/28/2013  
 Instrument ID: BSMD5973 DFTPP Injection Time: 12:00  
 Analysis Batch No.: 136038

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	37.7
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	41.3
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 198	45.6
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	6.5
275	10.0 - 60.0 % of mass 198	29.4
365	Greater than 1.0 % of mass 198	3.7
441	Present but less than mass 443	8.0
442	Greater than 50.0 % of mass 198	97.0
443	15.0 - 24.0 % of mass 442	19.5 (20.1)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 660-136038/9	1DC28009.D	03/28/2013	14:57
	MB 660-135822/1-A	1DC28011.D	03/28/2013	15:42
	LCS 660-135822/2-A	1DC28012.D	03/28/2013	16:05
CV1323A-GS	680-88592-21	1DC28013.D	03/28/2013	16:27
CV1323A-GS MS	680-88592-21 MS	1DC28014.D	03/28/2013	16:50
CV1323A-GS MSD	680-88592-21 MSD	1DC28015.D	03/28/2013	17:12

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

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Sample No.: ICIS 660-134776/7 Date Analyzed: 02/22/2013 13:11  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CB22007.D Heated Purge: (Y/N) N  
 Calibration ID: 2760

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	1215005	3.80	932815	4.89	1859738	5.85
UPPER LIMIT	2430010	4.30	1865630	5.39	3719476	6.35
LOWER LIMIT	607503	3.30	466408	4.39	929869	5.35
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-134776/10	1383069	3.80	1075067	4.89	2141313	5.85

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.: 680-88592-2  
 SDG No.: 68088592-2  
 Sample No.: ICIS 660-134776/7 Date Analyzed: 02/22/2013 13:11  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CB22007.D Heated Purge: (Y/N) N  
 Calibration ID: 2760

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	2424157	7.80	2664188	9.02		
UPPER LIMIT	4848314	8.30	5328376	9.52		
LOWER LIMIT	1212079	7.30	1332094	8.52		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-134776/10	2766374	7.80	3034368	9.02		

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.: 680-88592-2  
 SDG No.: 68088592-2  
 Sample No.: CCVIS 660-135830/3 Date Analyzed: 03/27/2013 10:35  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CC27003.D Heated Purge: (Y/N) N  
 Calibration ID: 2760

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	740866	3.73	575327	4.82	1092531	5.76	
UPPER LIMIT	1481732	4.23	1150654	5.32	2185062	6.26	
LOWER LIMIT	370433	3.23	287664	4.32	546266	5.26	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135800/1-A	733449	3.73	569617	4.82	1053797	5.77	
LCS 660-135800/2-A	652625	3.73	502253	4.82	992616	5.76	
680-88592-A-19-B MS	788710	3.73	620741	4.82	1191395	5.76	
680-88592-A-19-C MSD	715305	3.73	593203	4.82	1086522	5.76	
680-88592-22	CV1323B-GS	683577	3.73	547562	4.82	1041993	5.76
680-88592-23	CV1323C-GS	698810	3.73	561854	4.82	1090692	5.76
680-88592-24	CV1323D-GS	765500	3.73	588901	4.82	1087130	5.76
680-88592-25	CV0763A-CS-SP	729548	3.73	554270	4.82	1063547	5.76
680-88592-26	CV0763B-CS-SP	738360	3.73	583233	4.82	1053102	5.76
680-88592-27	CV0833A-CS-SP	754225	3.73	586701	4.82	1044747	5.76
680-88592-28	CV0833B-CS-SP	774248	3.73	609945	4.82	1103278	5.76
680-88592-29	CV0876A-CS-SP	760272	3.73	578106	4.82	1091967	5.76
680-88592-30	CV0876B-CS-SP	750385	3.73	591664	4.82	1080913	5.76
680-88592-31	FM0168A-CS-SP	733051	3.73	569955	4.82	1050634	5.76
680-88592-32	FM0168B-CS-SP	775985	3.73	592873	4.82	1099795	5.76

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.: 680-88592-2  
 SDG No.: 68088592-2  
 Sample No.: CCVIS 660-135830/3 Date Analyzed: 03/27/2013 10:35  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CC27003.D Heated Purge: (Y/N) N  
 Calibration ID: 2760

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	1389214	7.70	1427635	8.89		
UPPER LIMIT	2778428	8.20	2855270	9.39		
LOWER LIMIT	694607	7.20	713818	8.39		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-135800/1-A		1355661	7.72	1428942	8.91	
LCS 660-135800/2-A		1311274	7.70	1340417	8.89	
680-88592-A-19-B MS		1439736	7.70	1443512	8.89	
680-88592-A-19-C MSD		1295155	7.70	1276318	8.89	
680-88592-22	CV1323B-GS	1166548	7.70	1162455	8.89	
680-88592-23	CV1323C-GS	1143231	7.70	1113137	8.89	
680-88592-24	CV1323D-GS	1223252	7.70	1164499	8.89	
680-88592-25	CV0763A-CS-SP	1175418	7.70	1133858	8.89	
680-88592-26	CV0763B-CS-SP	1182817	7.70	1147851	8.89	
680-88592-27	CV0833A-CS-SP	1135048	7.70	1138156	8.89	
680-88592-28	CV0833B-CS-SP	1191320	7.70	1171020	8.89	
680-88592-29	CV0876A-CS-SP	1154989	7.70	1117297	8.89	
680-88592-30	CV0876B-CS-SP	1183887	7.70	1138202	8.89	
680-88592-31	FM0168A-CS-SP	1154694	7.70	1098146	8.89	
680-88592-32	FM0168B-CS-SP	1197914	7.70	1148193	8.89	

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.: 680-88592-2  
 SDG No.: 68088592-2  
 Sample No.: ICIS 660-134781/7 Date Analyzed: 02/22/2013 13:43  
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1DB22007.D Heated Purge: (Y/N) N  
 Calibration ID: 2761

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	2851402	6.18	1685266	7.86	2758746	9.12	
UPPER LIMIT	5702804	6.68	3370532	8.36	5517492	9.62	
LOWER LIMIT	1425701	5.68	842633	7.36	1379373	8.62	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134781/10		3227519	6.19	1973397	7.86	3226971	9.12

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.: 680-88592-2  
 SDG No.: 68088592-2  
 Sample No.: ICIS 660-134781/7 Date Analyzed: 02/22/2013 13:43  
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1DB22007.D Heated Purge: (Y/N) N  
 Calibration ID: 2761

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	2741766	11.46	2903096	13.33		
UPPER LIMIT	5483532	11.96	5806192	13.83		
LOWER LIMIT	1370883	10.96	1451548	12.83		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-134781/10	3262056	11.46	3389756	13.34		

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.: 680-88592-2  
 SDG No.: 68088592-2  
 Sample No.: CCVIS 660-136038/9 Date Analyzed: 03/28/2013 14:57  
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1DC28009.D Heated Purge: (Y/N) N  
 Calibration ID: 2761

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	3447549	6.10	2210474	7.78	3698385	9.04	
UPPER LIMIT	6895098	6.60	4420948	8.28	7396770	9.54	
LOWER LIMIT	1723775	5.60	1105237	7.28	1849193	8.54	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135822/1-A		3397993	6.10	2207708	7.78	3627662	9.04
LCS 660-135822/2-A		3559975	6.10	2302268	7.78	3843730	9.04
680-88592-21	CV1323A-GS	3494946	6.10	2286276	7.78	3797222	9.04
680-88592-21 MS	CV1323A-GS MS	3558914	6.10	2282337	7.78	3768115	9.04
680-88592-21 MSD	CV1323A-GS MSD	3608549	6.10	2329630	7.78	3894748	9.04

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.: 680-88592-2  
 SDG No.: 68088592-2  
 Sample No.: CCVIS 660-136038/9 Date Analyzed: 03/28/2013 14:57  
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1DC28009.D Heated Purge: (Y/N) N  
 Calibration ID: 2761

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	3890381	11.37	4013621	13.22		
UPPER LIMIT	7780762	11.87	8027242	13.72		
LOWER LIMIT	1945191	10.87	2006811	12.72		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-135822/1-A		3652900	11.37	3883149	13.22	
LCS 660-135822/2-A		3972248	11.37	4089168	13.22	
680-88592-21	CV1323A-GS	3878200	11.37	4053807	13.23	
680-88592-21 MS	CV1323A-GS MS	3819813	11.37	3970099	13.22	
680-88592-21 MSD	CV1323A-GS MSD	3914233	11.37	4038676	13.22	

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.: 680-88592-2  
 SDG No.: 68088592-2  
 Client Sample ID: CV1323A-GS Lab Sample ID: 680-88592-21  
 Matrix: Solid Lab File ID: 1DC28013.D  
 Analysis Method: 8270C LL Date Collected: 03/20/2013 14:00  
 Extract. Method: 3546 Date Extracted: 03/27/2013 11:19  
 Sample wt/vol: 15.25(g) Date Analyzed: 03/28/2013 16:27  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 20.8 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136038 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	99
208-96-8	Acenaphthylene	200	U	200	25
120-12-7	Anthracene	41	J	42	21
56-55-3	Benzo[a]anthracene	150		40	19
50-32-8	Benzo[a]pyrene	120	F	52	26
205-99-2	Benzo[b]fluoranthene	230	F	61	30
191-24-2	Benzo[g,h,i]perylene	130		99	22
207-08-9	Benzo[k]fluoranthene	63		40	18
218-01-9	Chrysene	200	F	45	22
53-70-3	Dibenz(a,h)anthracene	46	J	99	20
206-44-0	Fluoranthene	160		99	20
86-73-7	Fluorene	99	U	99	20
193-39-5	Indeno[1,2,3-cd]pyrene	87	J	99	35
90-12-0	1-Methylnaphthalene	250		200	22
91-57-6	2-Methylnaphthalene	250	F	200	35
91-20-3	Naphthalene	190	J	200	22
85-01-8	Phenanthrene	230	F	40	19
129-00-0	Pyrene	140	F	99	18

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28013.D  
 Lab Smp Id: 680-88592-A-21-A Client Smp ID: CV1323A-GS  
 Inj Date : 28-MAR-2013 16:27  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-88592-A-21-A  
 Misc Info : 680-88592-A-21-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dFASTPAHi.m  
 Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.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	15.250	Weight Extracted
M	20.833	% 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/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.104	6.102	(1.000)	3494946	40.0000	
* 6 Acenaphthene-d10	164		7.778	7.777	(1.000)	2286276	40.0000	
* 9 Phenanthrene-d10	188		9.041	9.040	(1.000)	3797222	40.0000	
\$ 13 o-Terphenyl	230		9.341	9.351	(1.033)	73754	1.25602	420
* 17 Chrysene-d12	240		11.368	11.373	(1.000)	3878200	40.0000	
* 22 Perylene-d12	264		13.225	13.223	(1.000)	4053807	40.0000	
2 Naphthalene	128		6.121	6.126	(1.003)	52439	0.56089	180
3 2-Methylnaphthalene	142		6.826	6.825	(1.118)	45756	0.76829	250
4 1-Methylnaphthalene	142		6.915	6.919	(1.133)	42391	0.76011	250
5 Acenaphthylene	152		7.649	7.653	(0.983)	6747	0.06694	22
8 Fluorene	166		8.242	8.247	(1.060)	2827	0.03937	13(Q)
10 Phenanthrene	178		9.053	9.064	(1.001)	73826	0.68490	230
11 Anthracene	178		9.094	9.099	(1.006)	13377	0.12404	41
12 Carbazole	167		9.235	9.240	(1.021)	7393	0.07668	25

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.040	10.045	(1.110)	53930	0.47943	160
15 Pyrene	202	10.222	10.233	(0.899)	52005	0.43230	140
16 Benzo(a)anthracene	228	11.350	11.349	(0.998)	48447	0.45629	150
18 Chrysene	228	11.386	11.396	(1.002)	66897	0.61028	200
19 Benzo(b)fluoranthene	252	12.655	12.671	(0.957)	71105	0.68145	220(H)
20 Benzo(k)fluoranthene	252	12.684	12.712	(0.959)	20680	0.18929	63(H)
21 Benzo(a)pyrene	252	13.107	13.124	(0.991)	36869	0.35706	120
23 Indeno(1,2,3-cd)pyrene	276	14.799	14.827	(1.119)	28941	0.26264	87(M)
24 Dibenzo(a,h)anthracene	278	14.817	14.863	(1.120)	14138	0.13893	46(H)
25 Benzo(g,h,i)perylene	276	15.246	15.280	(1.153)	41948	0.39926	130(H)

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File: 1DC28013.D

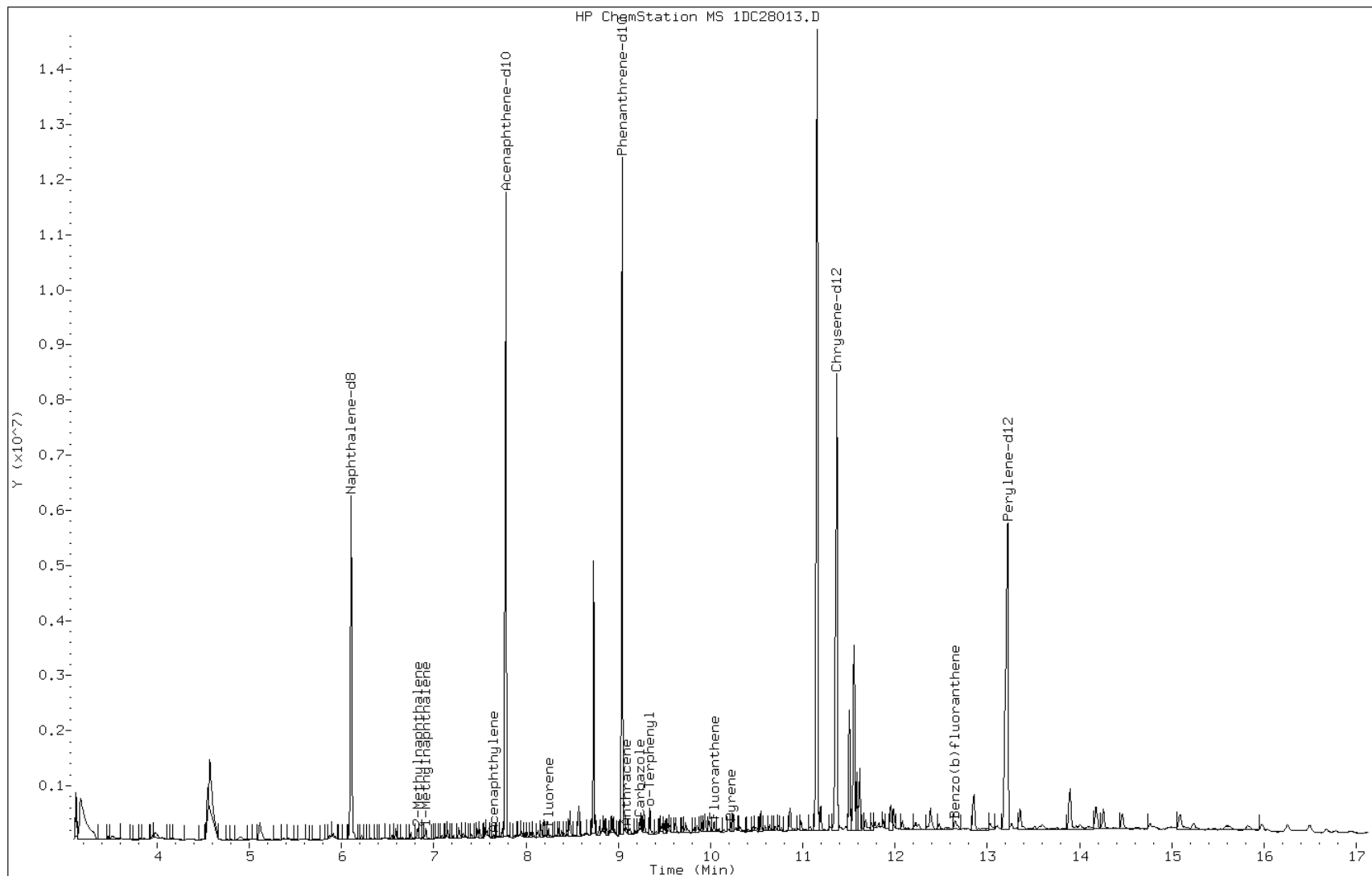
Date: 28-MAR-2013 16:27

Client ID: CV1323A-GS

Instrument: BSMSD.i

Sample Info: 680-88592-A-21-A

Operator: SCC



Data File: 1DC28013.D

Date: 28-MAR-2013 16:27

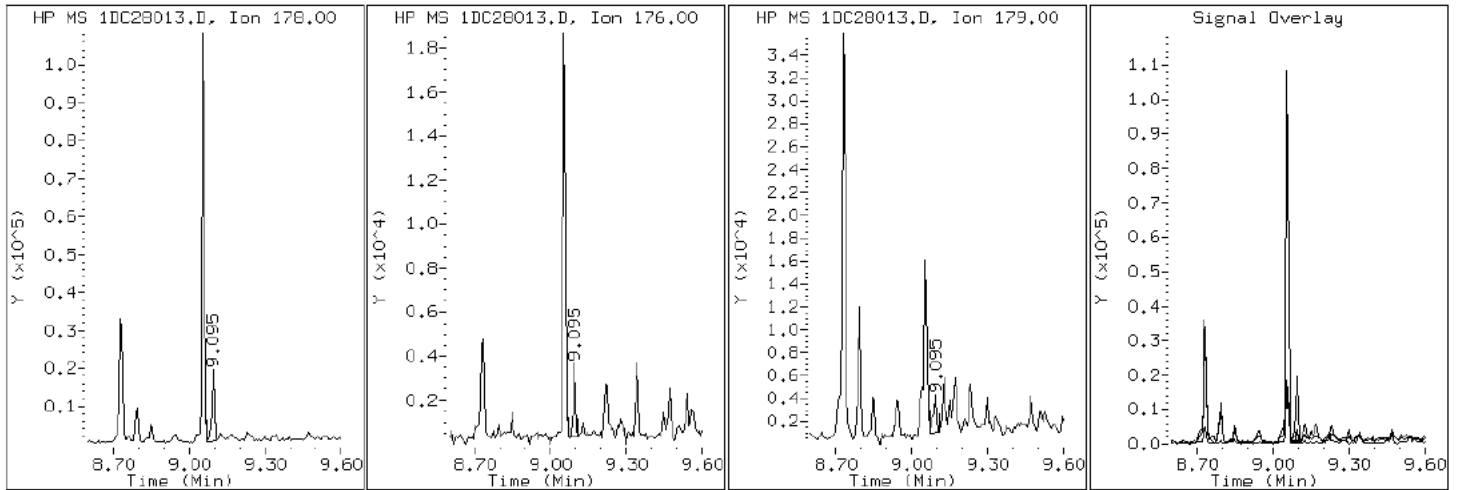
Client ID: CV1323A-GS

Instrument: BSMSD.i

Sample Info: 680-88592-A-21-A

Operator: SCC

11 Anthracene



Data File: 1DC28013.D

Date: 28-MAR-2013 16:27

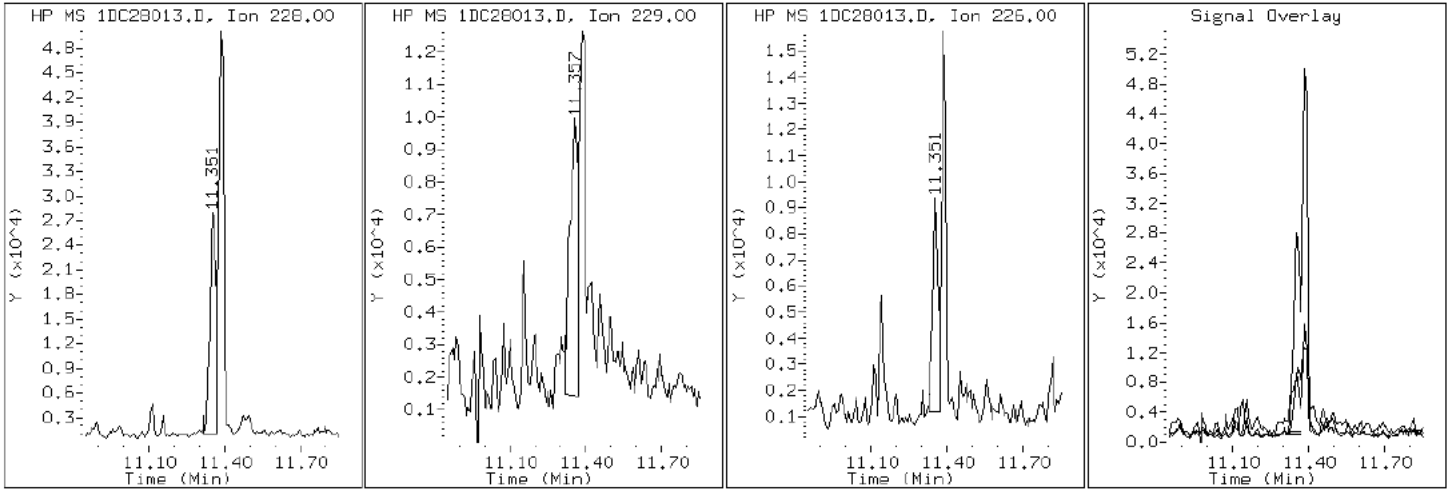
Client ID: CV1323A-GS

Instrument: BSMSD.i

Sample Info: 680-88592-A-21-A

Operator: SCC

16 Benzo(a)anthracene





Data File: 1DC28013.D

Date: 28-MAR-2013 16:27

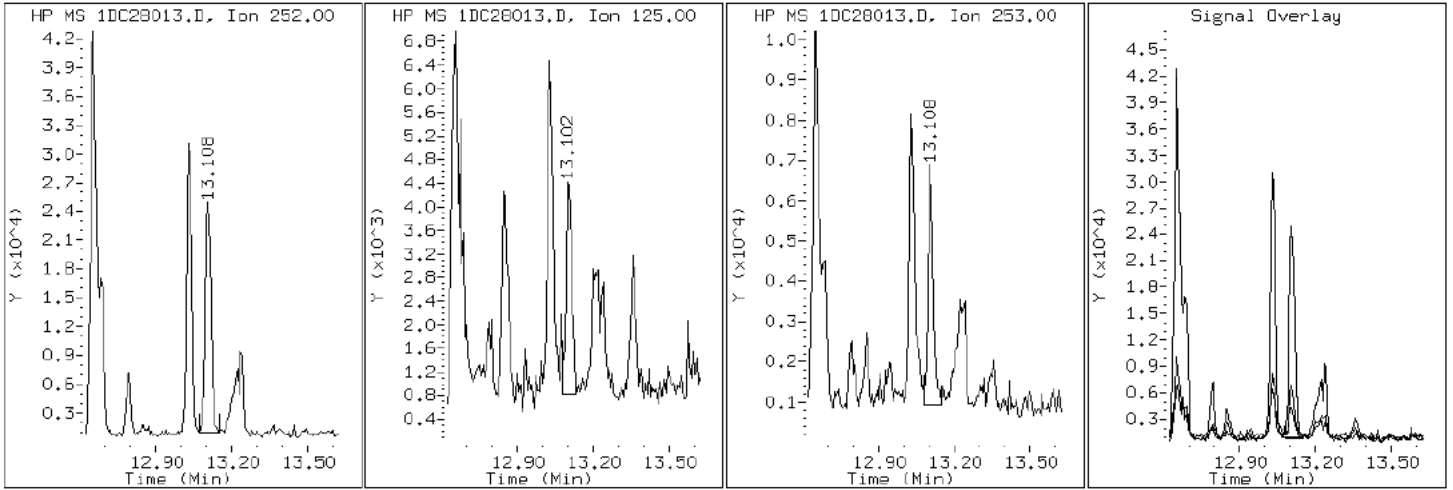
Client ID: CV1323A-GS

Instrument: BSMSD.i

Sample Info: 680-88592-A-21-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DC28013.D

Date: 28-MAR-2013 16:27

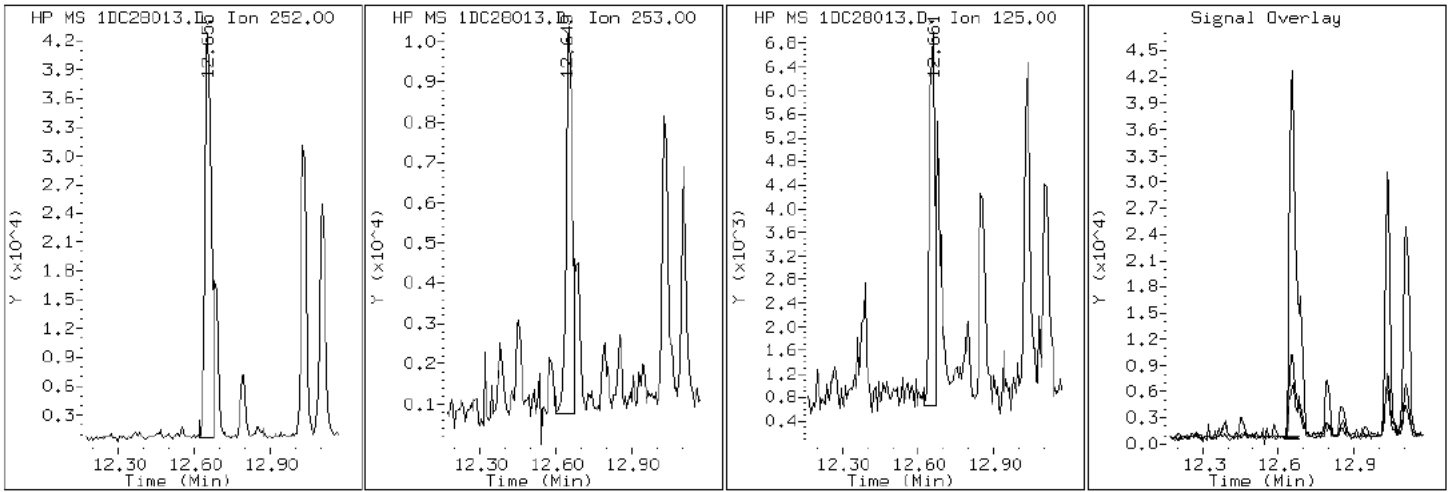
Client ID: CV1323A-GS

Instrument: BSMSD.i

Sample Info: 680-88592-A-21-A

Operator: SCC

19 Benzo (b) fluoranthene



Data File: 1DC28013.D

Date: 28-MAR-2013 16:27

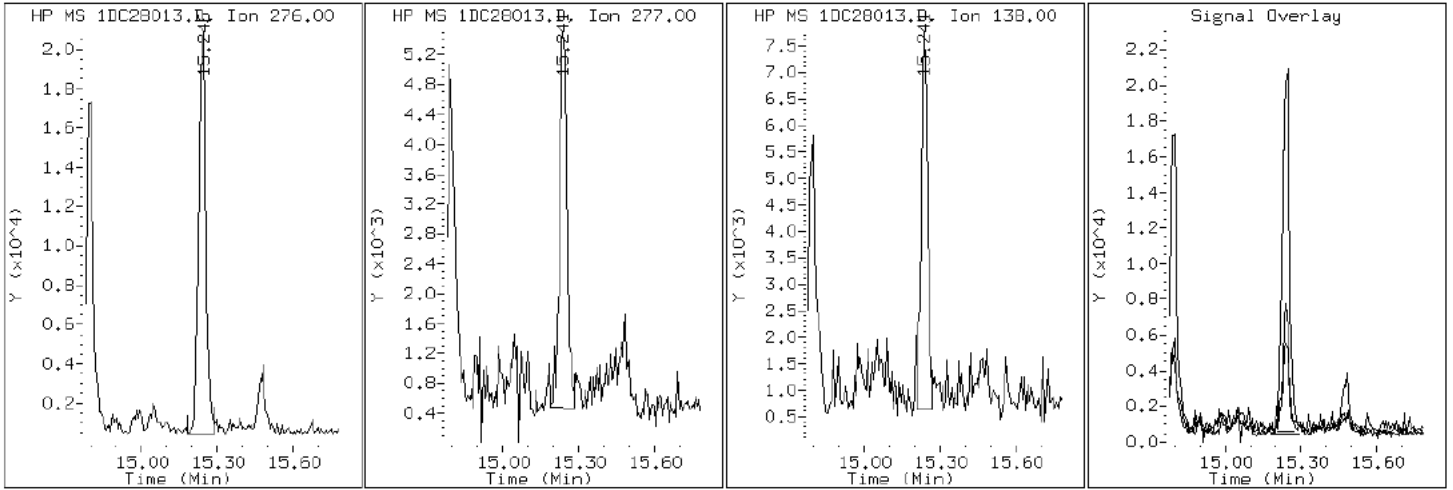
Client ID: CV1323A-GS

Instrument: BSMSD.i

Sample Info: 680-88592-A-21-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DC28013.D

Date: 28-MAR-2013 16:27

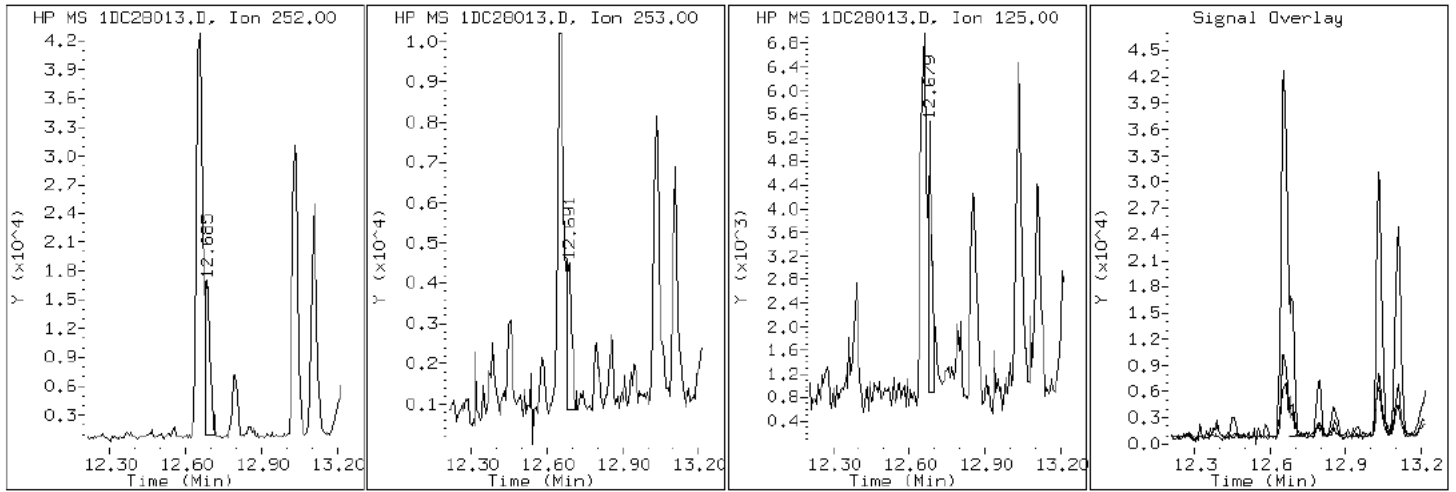
Client ID: CV1323A-GS

Instrument: BSMSD.i

Sample Info: 680-88592-A-21-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DC28013.D

Date: 28-MAR-2013 16:27

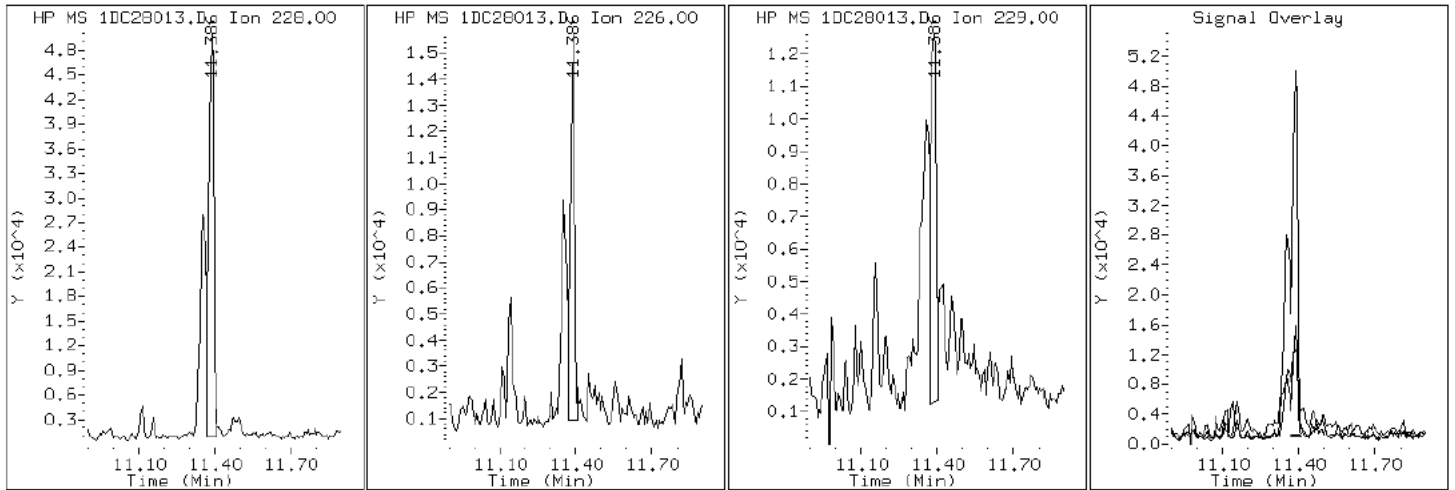
Client ID: CV1323A-GS

Instrument: BSMSD.i

Sample Info: 680-88592-A-21-A

Operator: SCC

18 Chrysene



Data File: 1DC28013.D

Date: 28-MAR-2013 16:27

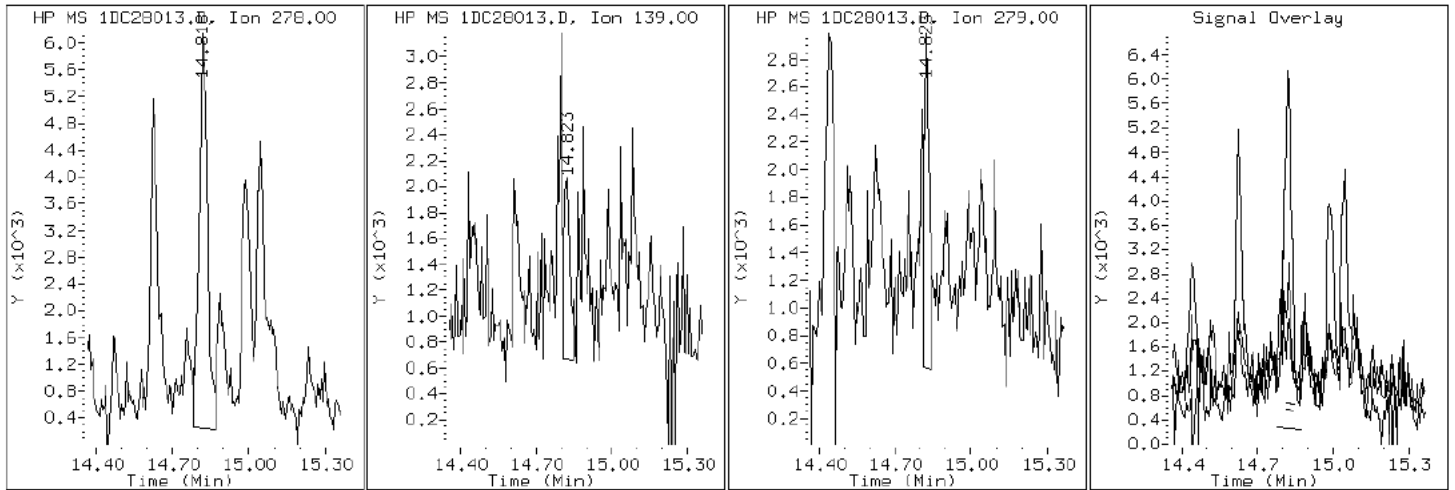
Client ID: CV1323A-GS

Instrument: BSMSD.i

Sample Info: 680-88592-A-21-A

Operator: SCC

24 Dibenzo (a,h) anthracene



Data File: 1DC28013.D

Date: 28-MAR-2013 16:27

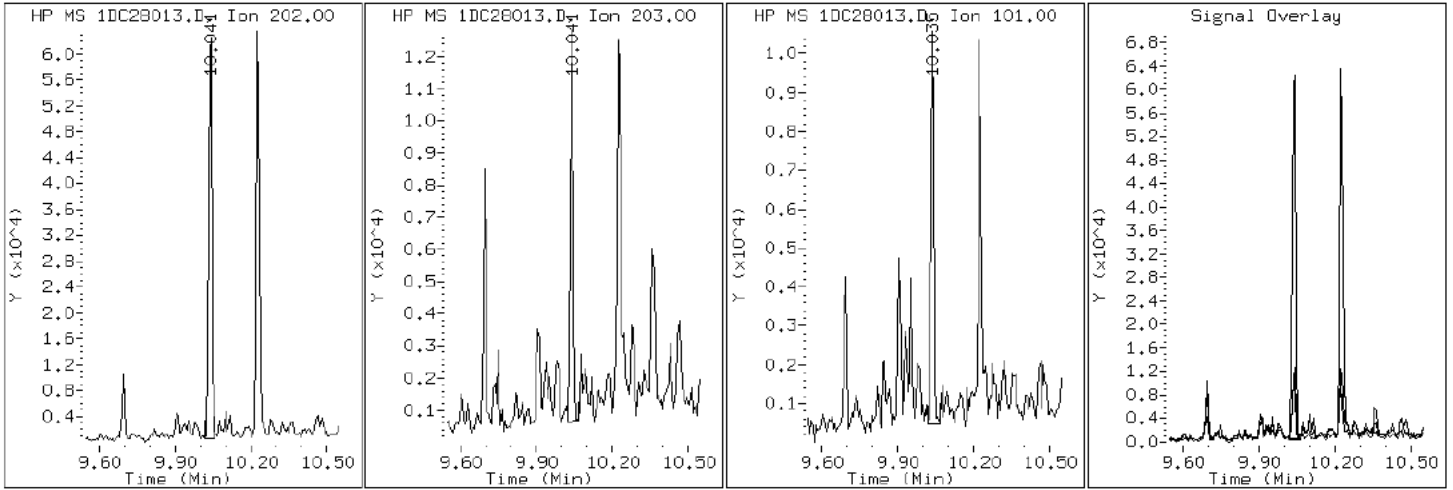
Client ID: CV1323A-GS

Instrument: BSMSD.i

Sample Info: 680-88592-A-21-A

Operator: SCC

14 Fluoranthene



Data File: 1DC28013.D

Date: 28-MAR-2013 16:27

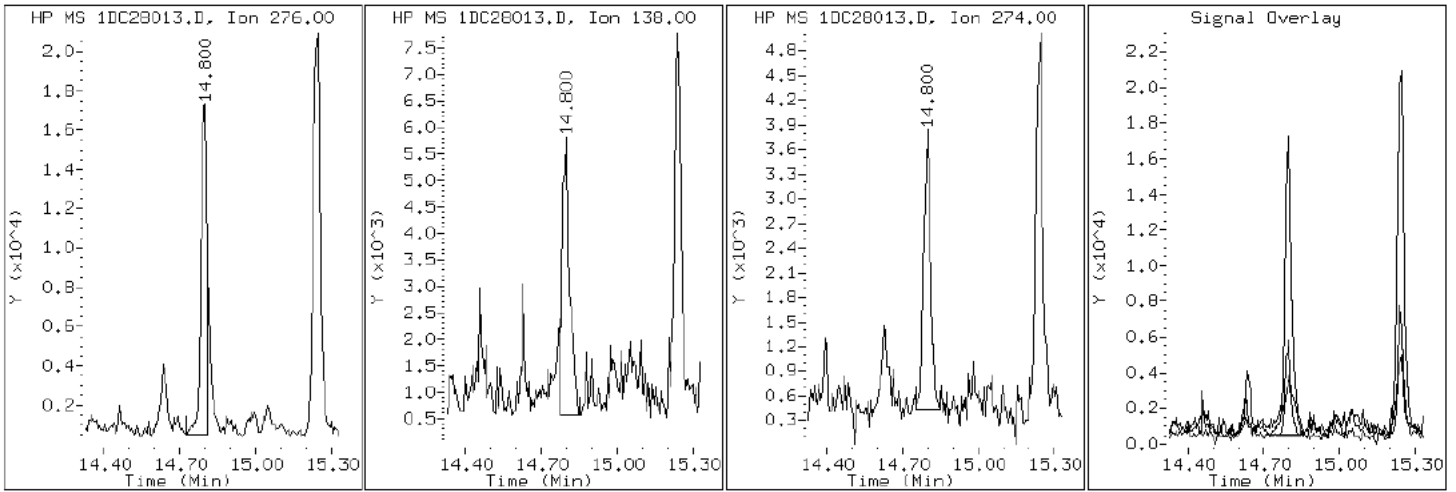
Client ID: CV1323A-GS

Instrument: BSMSD.i

Sample Info: 680-88592-A-21-A

Operator: SCC

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





Data File: 1DC28013.D

Date: 28-MAR-2013 16:27

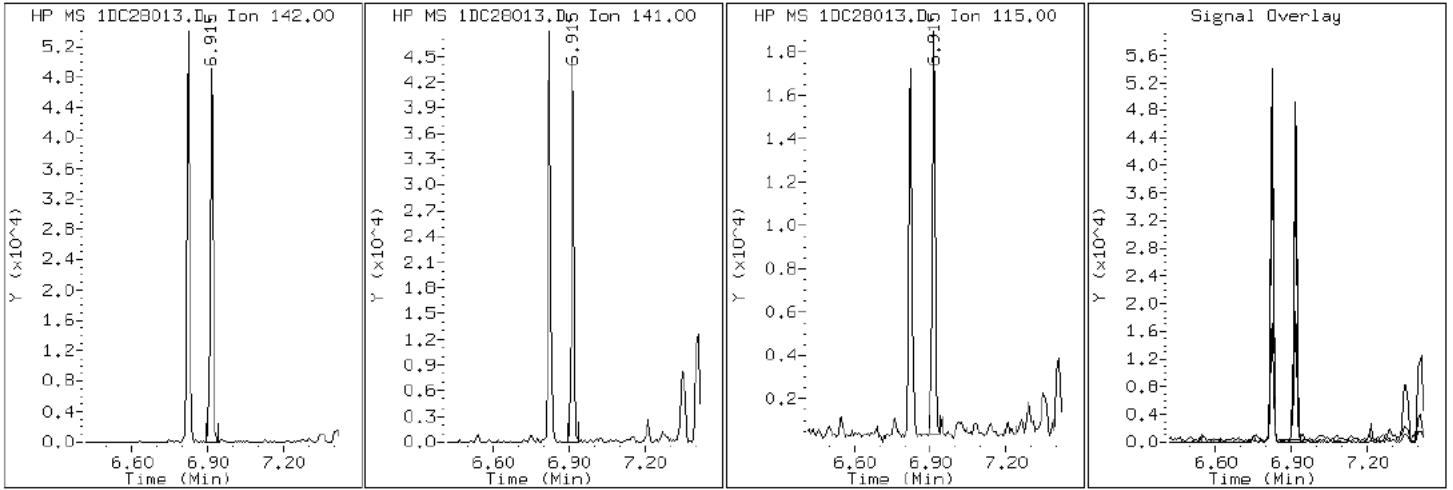
Client ID: CV1323A-GS

Instrument: BSMSD.i

Sample Info: 680-88592-A-21-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DC28013.D

Date: 28-MAR-2013 16:27

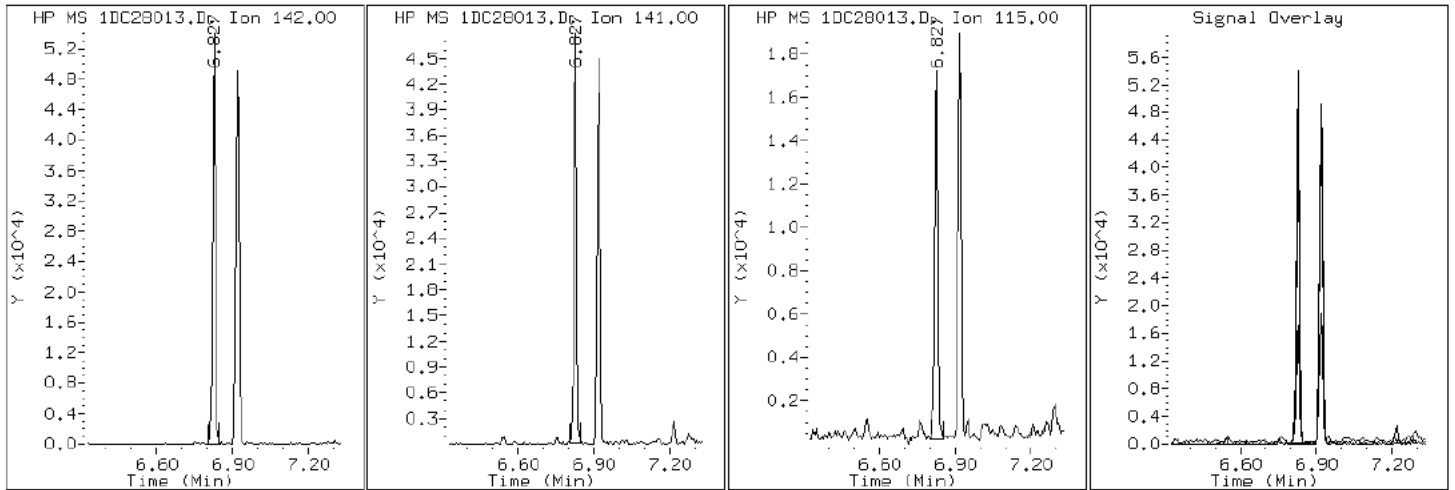
Client ID: CV1323A-GS

Instrument: BSMSD.i

Sample Info: 680-88592-A-21-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DC28013.D

Date: 28-MAR-2013 16:27

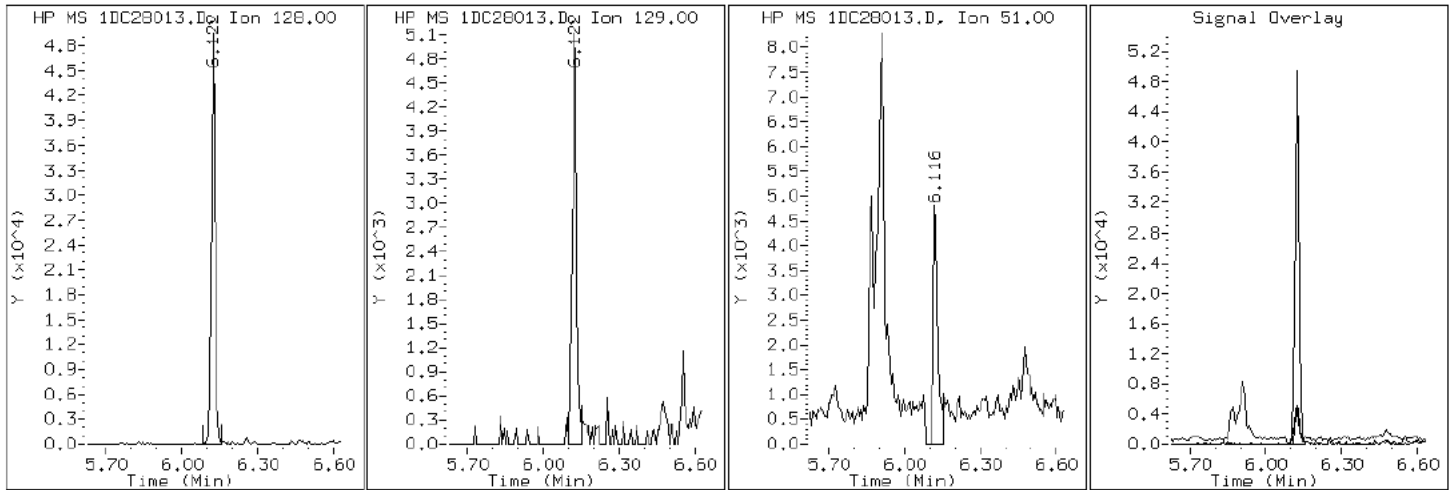
Client ID: CV1323A-GS

Instrument: BSMSD.i

Sample Info: 680-88592-A-21-A

Operator: SCC

2 Naphthalene



Data File: 1DC28013.D

Date: 28-MAR-2013 16:27

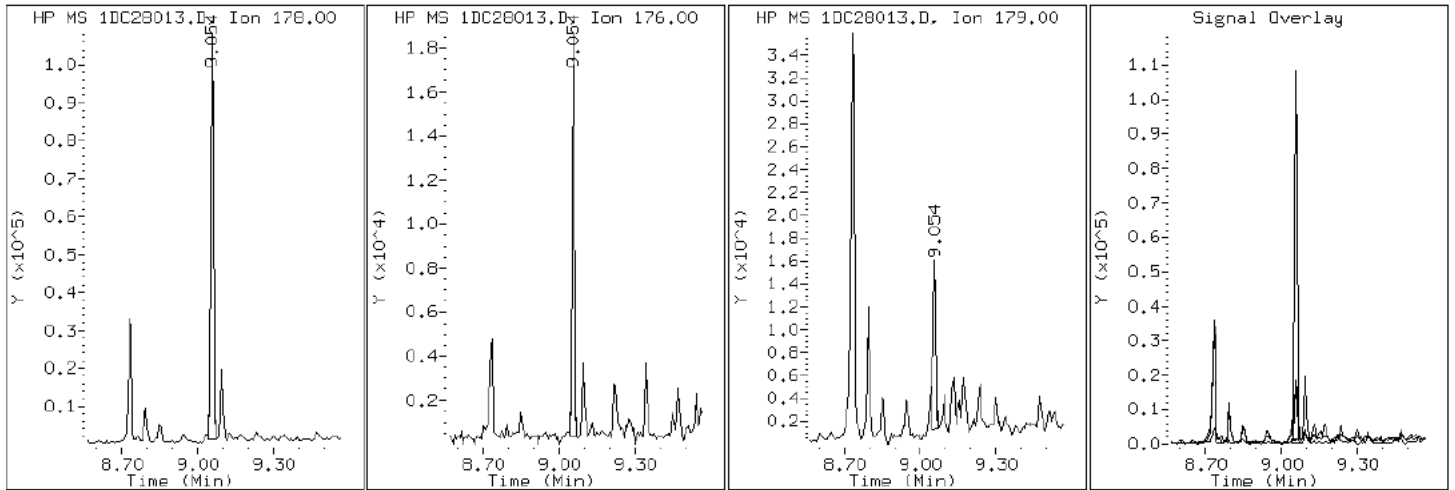
Client ID: CV1323A-GS

Instrument: BSMSD.i

Sample Info: 680-88592-A-21-A

Operator: SCC

10 Phenanthrene



Data File: 1DC28013.D

Date: 28-MAR-2013 16:27

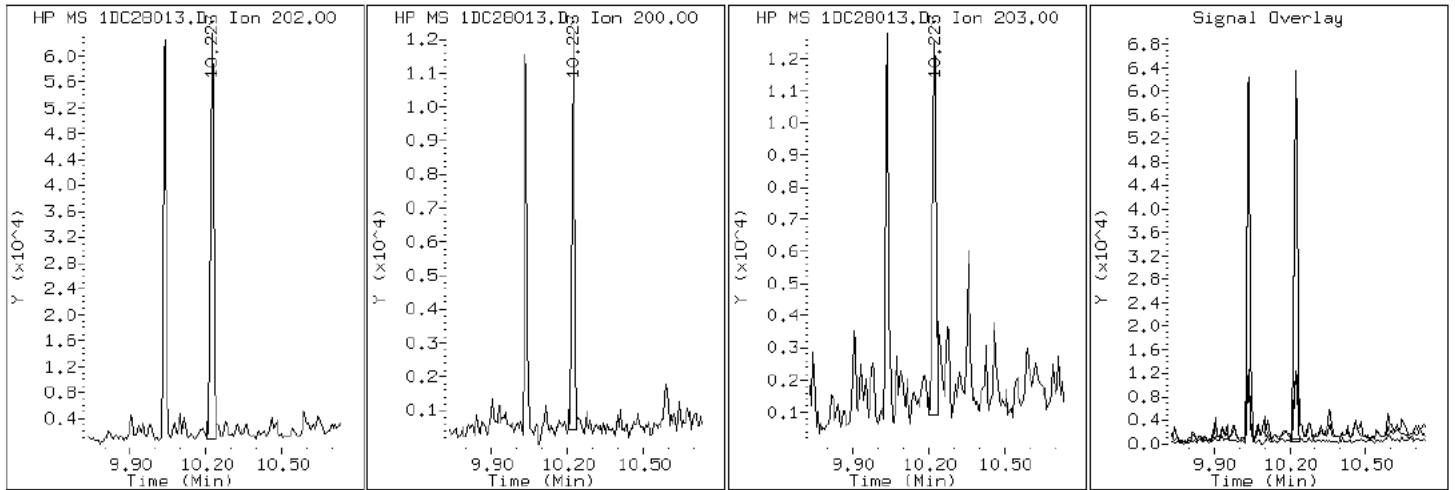
Client ID: CV1323A-GS

Instrument: BSMSD.i

Sample Info: 680-88592-A-21-A

Operator: SCC

15 Pyrene

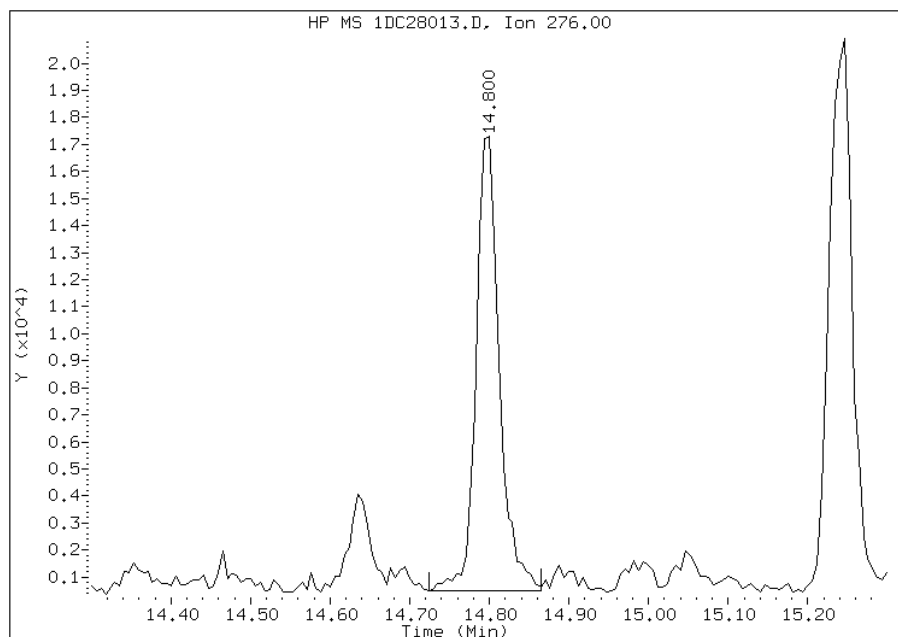


# Manual Integration Report

Data File: 1DC28013.D  
Inj. Date and Time: 28-MAR-2013 16:27  
Instrument ID: BSMSD.i  
Client ID: CV1323A-GS  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

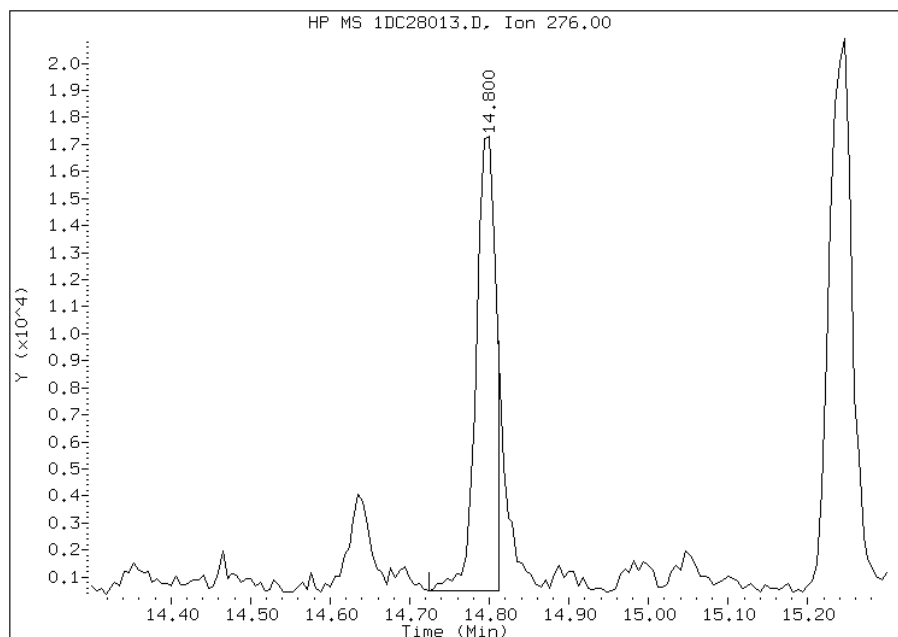
## Processing Integration Results

RT: 14.80  
Response: 33666  
Amount: 0  
Conc: 101



## Manual Integration Results

RT: 14.80  
Response: 28941  
Amount: 0  
Conc: 87



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 13:54  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Client Sample ID: CV1323B-GS Lab Sample ID: 680-88592-22  
 Matrix: Solid Lab File ID: 1CC27015.D  
 Analysis Method: 8270C LL Date Collected: 03/20/2013 14:10  
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07  
 Sample wt/vol: 15.22(g) Date Analyzed: 03/27/2013 14:29  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 26.1 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	53	U	53	6.7
120-12-7	Anthracene	11	U	11	5.6
56-55-3	Benzo[a]anthracene	11	U	11	5.2
50-32-8	Benzo[a]pyrene	14	U	14	6.9
205-99-2	Benzo[b]fluoranthene	16	U	16	8.1
191-24-2	Benzo[g,h,i]perylene	6.8	J	27	5.9
207-08-9	Benzo[k]fluoranthene	11	U	11	4.8
218-01-9	Chrysene	12	U	12	6.0
53-70-3	Dibenz(a,h)anthracene	27	U	27	5.5
206-44-0	Fluoranthene	27	U	27	5.3
86-73-7	Fluorene	27	U	27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	27	U	27	9.5
90-12-0	1-Methylnaphthalene	53	U	53	5.9
91-57-6	2-Methylnaphthalene	53	U	53	9.5
91-20-3	Naphthalene	53	U	53	5.9
85-01-8	Phenanthrene	12		11	5.2
129-00-0	Pyrene	7.1	J	27	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	85		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27015.D  
 Lab Smp Id: 680-88592-A-22-A Client Smp ID: CV1323B-GS  
 Inj Date : 27-MAR-2013 14:29  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88592-a-22-a  
 Misc Info : 680-88592-A-22-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m  
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
 Als bottle: 15  
 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	15.220	Weight Extracted
M	26.139	% 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		3.727	3.727	(1.000)	683577	40.0000	
* 6 Acenaphthene-d10	164		4.816	4.815	(1.000)	547562	40.0000	
* 10 Phenanthrene-d10	188		5.763	5.762	(1.000)	1041993	40.0000	
\$ 14 o-Terphenyl	230		6.015	6.015	(1.044)	133699	8.49837	755.9727
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1166548	40.0000	
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1162455	40.0000	
11 Phenanthrene	178		5.780	5.780	(1.003)	4231	0.14043	12.4915
16 Pyrene	202		6.768	6.786	(0.879)	2486	0.07930	7.0541(M)
26 Benzo(g,h,i)perylene	276		10.392	10.397	(1.169)	2232	0.07686	6.8374(M)

QC Flag Legend

M - Compound response manually integrated.



Data File: 1CC27015.D

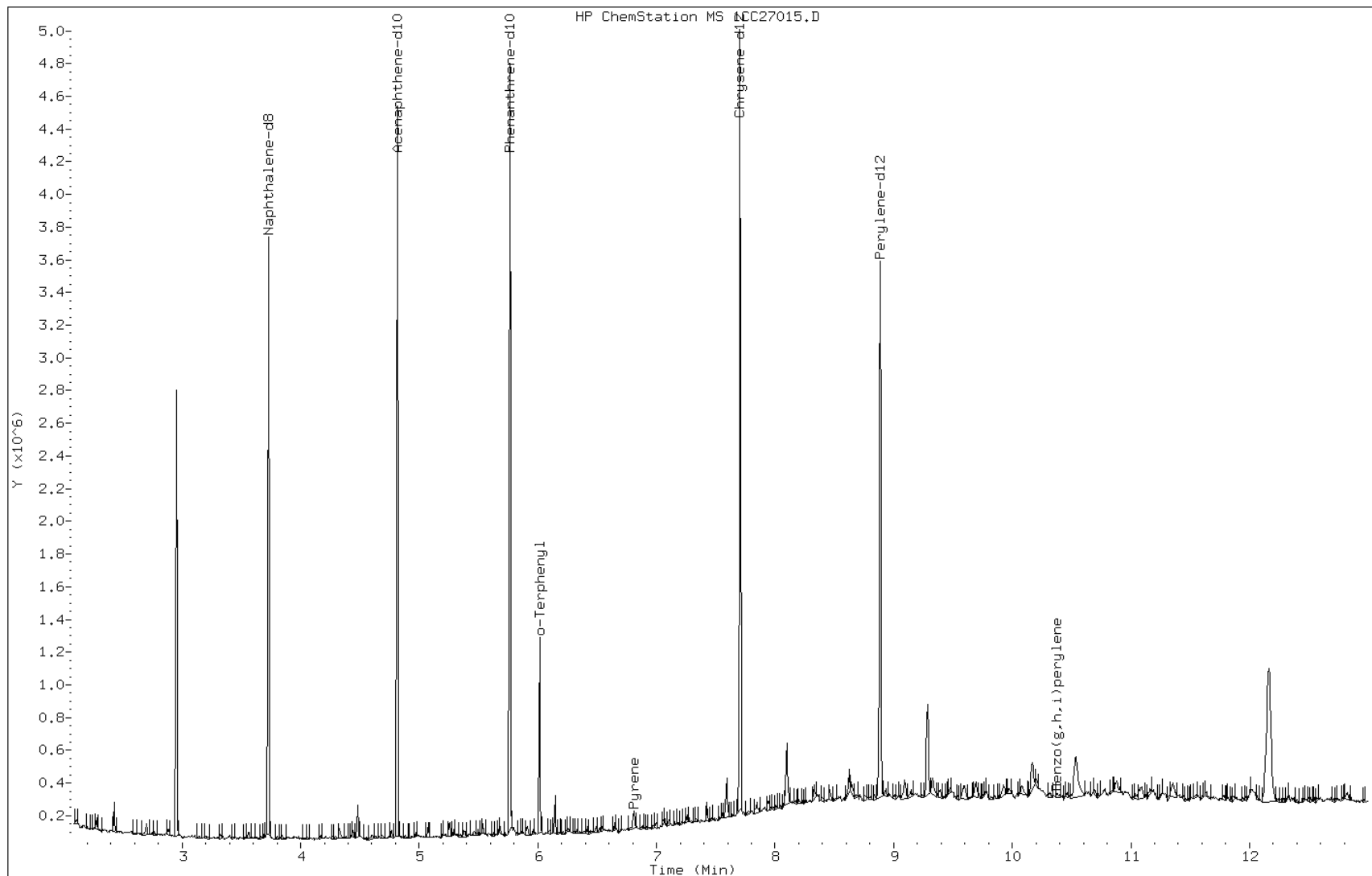
Date: 27-MAR-2013 14:29

Client ID: CV1323B-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-22-a

Operator: SCC



Data File: 1CC27015.D

Date: 27-MAR-2013 14:29

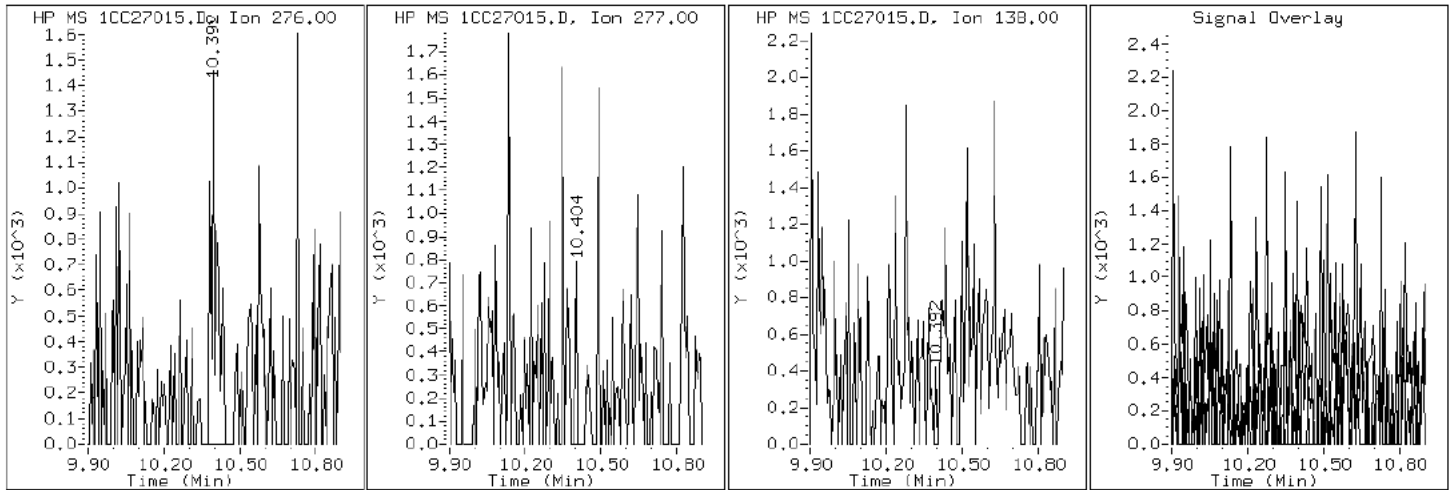
Client ID: CV1323B-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-22-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC27015.D

Date: 27-MAR-2013 14:29

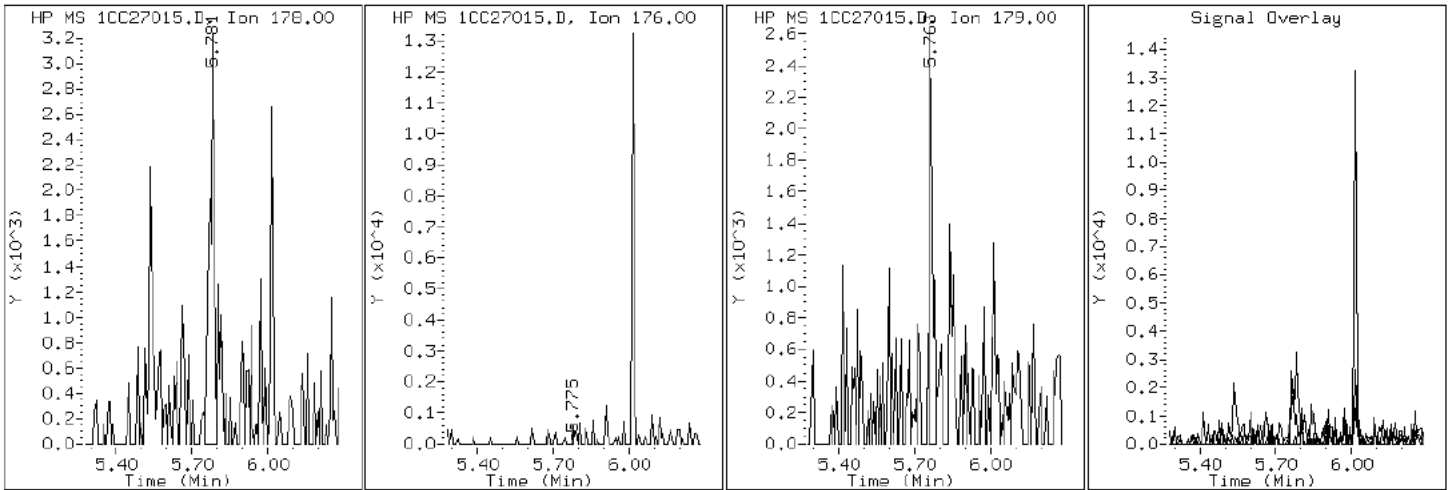
Client ID: CV1323B-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-22-a

Operator: SCC

11 Phenanthrene



Data File: 1CC27015.D

Date: 27-MAR-2013 14:29

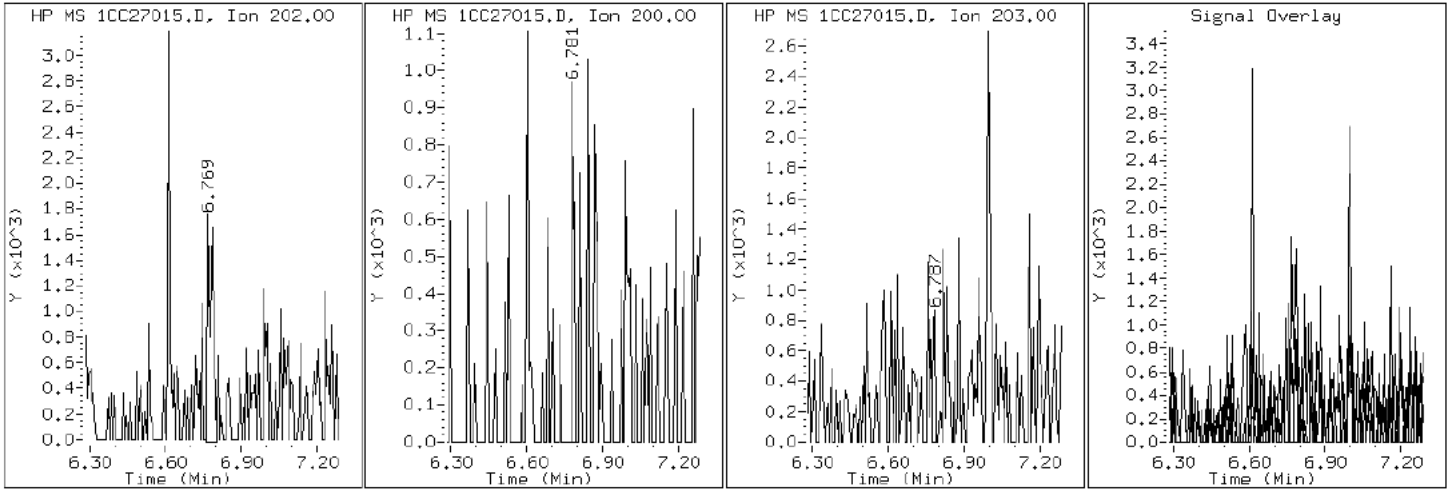
Client ID: CV1323B-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-22-a

Operator: SCC

16 Pyrene

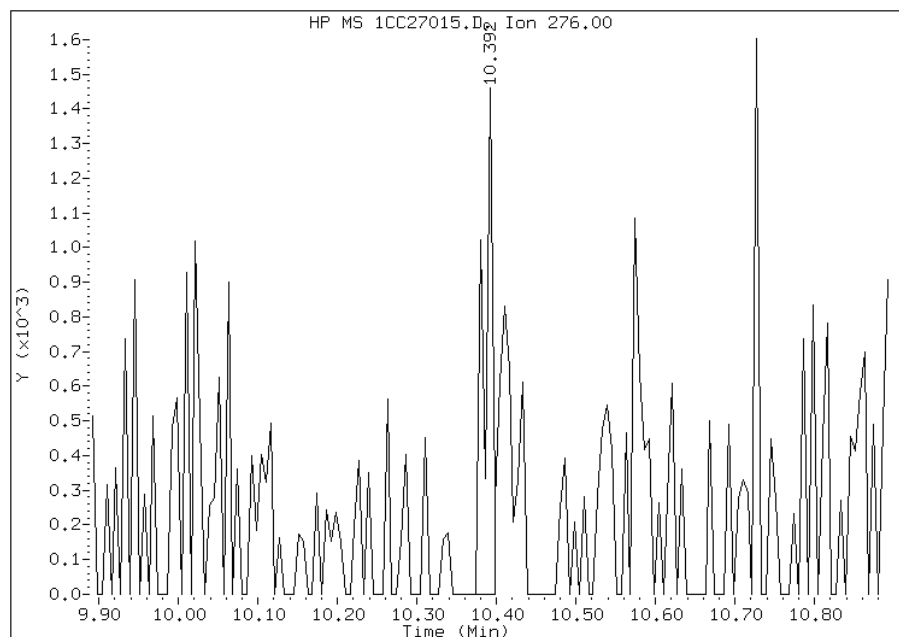


# Manual Integration Report

Data File: 1CC27015.D  
Inj. Date and Time: 27-MAR-2013 14:29  
Instrument ID: BSMC5973.i  
Client ID: CV1323B-GS  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/01/2013

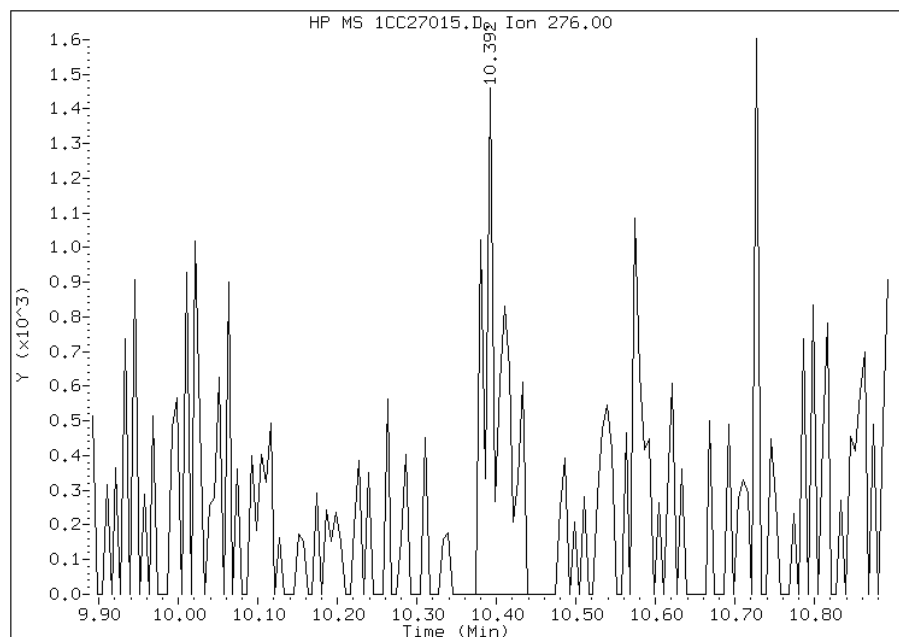
## Processing Integration Results

RT: 10.39  
Response: 1088  
Amount: 0  
Conc: 3



## Manual Integration Results

RT: 10.39  
Response: 2232  
Amount: 0  
Conc: 7



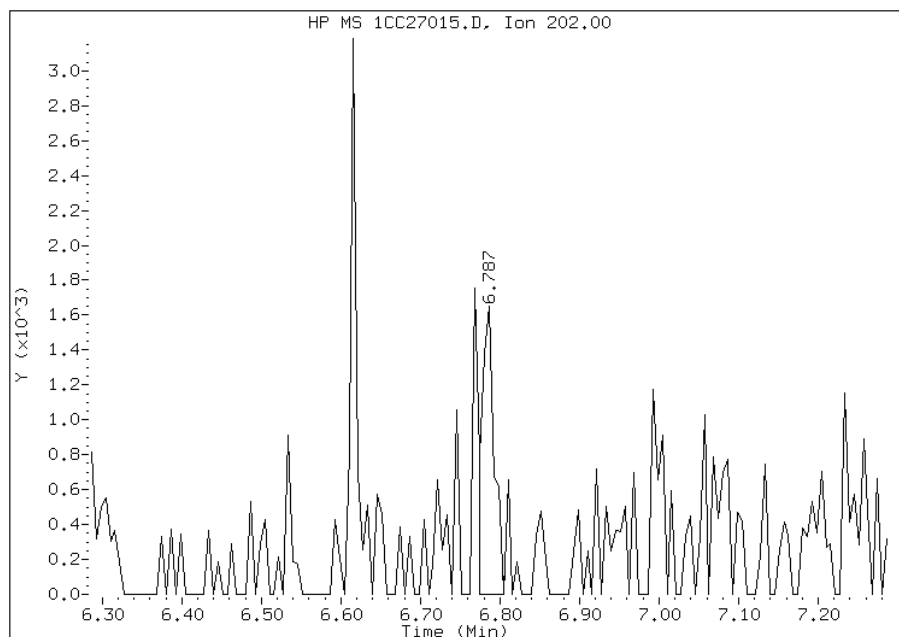
Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:15  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CC27015.D  
Inj. Date and Time: 27-MAR-2013 14:29  
Instrument ID: BSMC5973.i  
Client ID: CV1323B-GS  
Compound: 16 Pyrene  
CAS #: 129-00-0  
Report Date: 04/01/2013

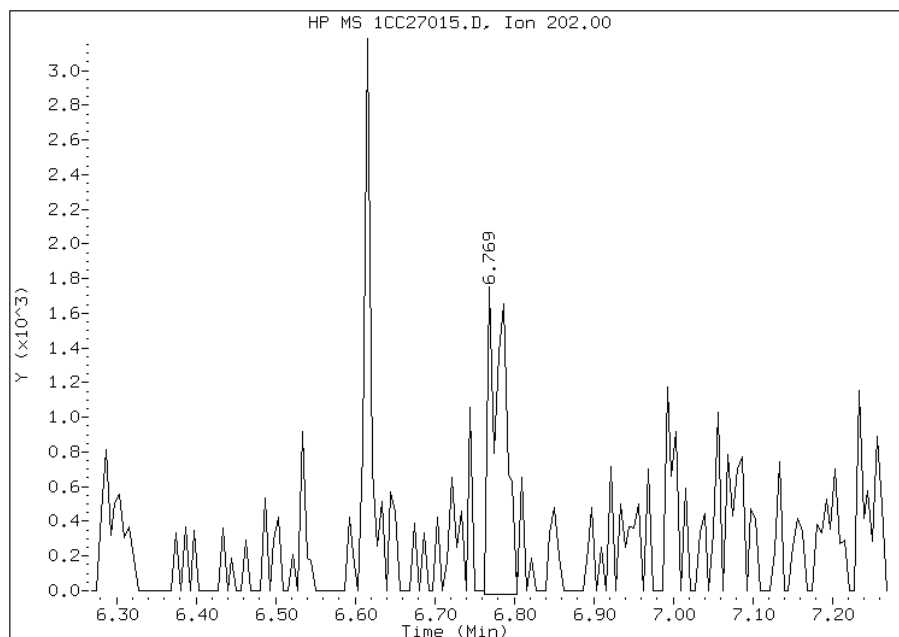
## Processing Integration Results

RT: 6.79  
Response: 1804  
Amount: 0  
Conc: 5



## Manual Integration Results

RT: 6.77  
Response: 2486  
Amount: 0  
Conc: 7



Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:14  
Manual Integration Reason: Baseline Event

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Client Sample ID: CV1323C-GS Lab Sample ID: 680-88592-23  
 Matrix: Solid Lab File ID: 1CC27016.D  
 Analysis Method: 8270C LL Date Collected: 03/20/2013 14:15  
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07  
 Sample wt/vol: 15.01(g) Date Analyzed: 03/27/2013 14:47  
 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.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	50	U	50	6.2
120-12-7	Anthracene	10	U	10	5.2
56-55-3	Benzo[a]anthracene	10	U	10	4.9
50-32-8	Benzo[a]pyrene	13	U	13	6.5
205-99-2	Benzo[b]fluoranthene	9.0	J	15	7.6
191-24-2	Benzo[g,h,i]perylene	6.2	J	25	5.5
207-08-9	Benzo[k]fluoranthene	8.2	J	10	4.5
218-01-9	Chrysene	8.5	J	11	5.6
53-70-3	Dibenz(a,h)anthracene	25	U	25	5.1
206-44-0	Fluoranthene	11	J	25	5.0
86-73-7	Fluorene	25	U	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	25	U	25	8.9
90-12-0	1-Methylnaphthalene	6.7	J	50	5.5
91-57-6	2-Methylnaphthalene	50	U	50	8.9
91-20-3	Naphthalene	9.3	J	50	5.5
85-01-8	Phenanthrene	9.9	J	10	4.9
129-00-0	Pyrene	11	J	25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	94		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27016.D  
 Lab Smp Id: 680-88592-A-23-A Client Smp ID: CV1323C-GS  
 Inj Date : 27-MAR-2013 14:47  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88592-a-23-a  
 Misc Info : 680-88592-A-23-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m  
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
 Als bottle: 16  
 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	15.010	Weight Extracted
M	19.835	% 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		3.727	3.727	(1.000)	698810	40.0000		
* 6 Acenaphthene-d10	164		4.816	4.815	(1.000)	561854	40.0000		
* 10 Phenanthrene-d10	188		5.763	5.762	(1.000)	1090692	40.0000		
\$ 14 o-Terphenyl	230		6.015	6.015	(1.044)	154581	9.38698	780.1156	
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1143231	40.0000		
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1113137	40.0000		
2 Naphthalene	128		3.739	3.739	(1.003)	2027	0.11142	9.2595(Q)	
4 1-Methylnaphthalene	142		4.227	4.227	(1.134)	887	0.08025	6.6696(QH)	
11 Phenanthrene	178		5.780	5.780	(1.003)	3766	0.11941	9.9238	
15 Fluoranthene	202		6.615	6.615	(1.148)	4656	0.13481	11.2033(MH)	
16 Pyrene	202		6.780	6.786	(0.880)	4160	0.13540	11.2529(M)	
19 Chrysene	228		7.715	7.727	(1.002)	3385	0.10251	8.5193	
20 Benzo(b)fluoranthene	252		8.539	8.539	(0.961)	3136	0.10780	8.9589(QM)	
21 Benzo(k)fluoranthene	252		8.551	8.562	(0.962)	2938	0.09845	8.1818(QM)	



Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
----- 26 Benzo(g,h,i)perylene	276		10.409	10.397	(1.171)	2090	0.07516	6.2465(QM)

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File: 1CC27016.D

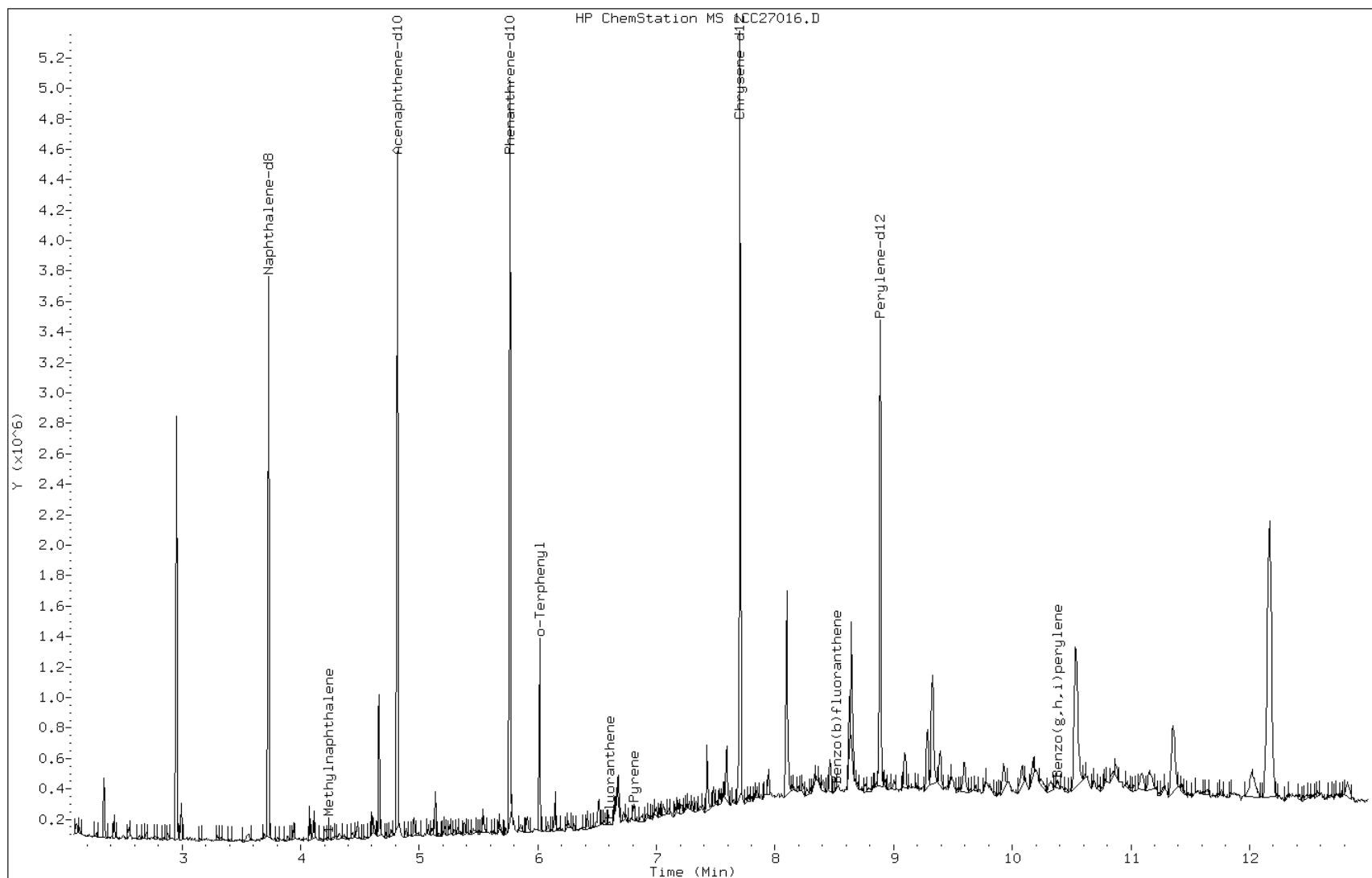
Date: 27-MAR-2013 14:47

Client ID: CV1323C-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-23-a

Operator: SCC



Data File: 1CC27016.D

Date: 27-MAR-2013 14:47

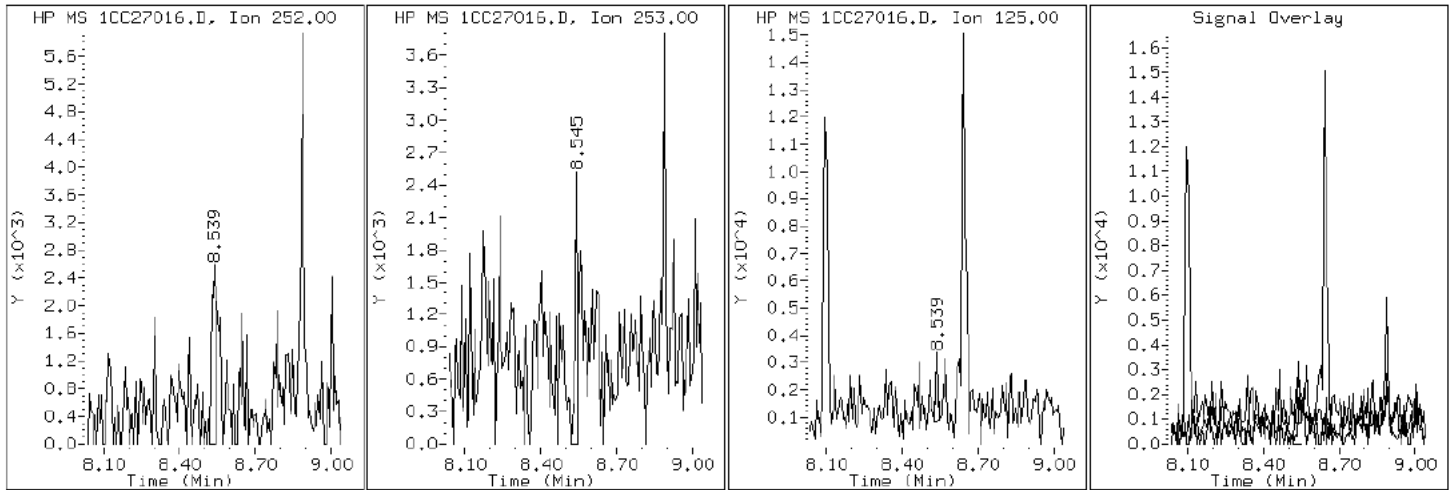
Client ID: CV1323C-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-23-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC27016.D

Date: 27-MAR-2013 14:47

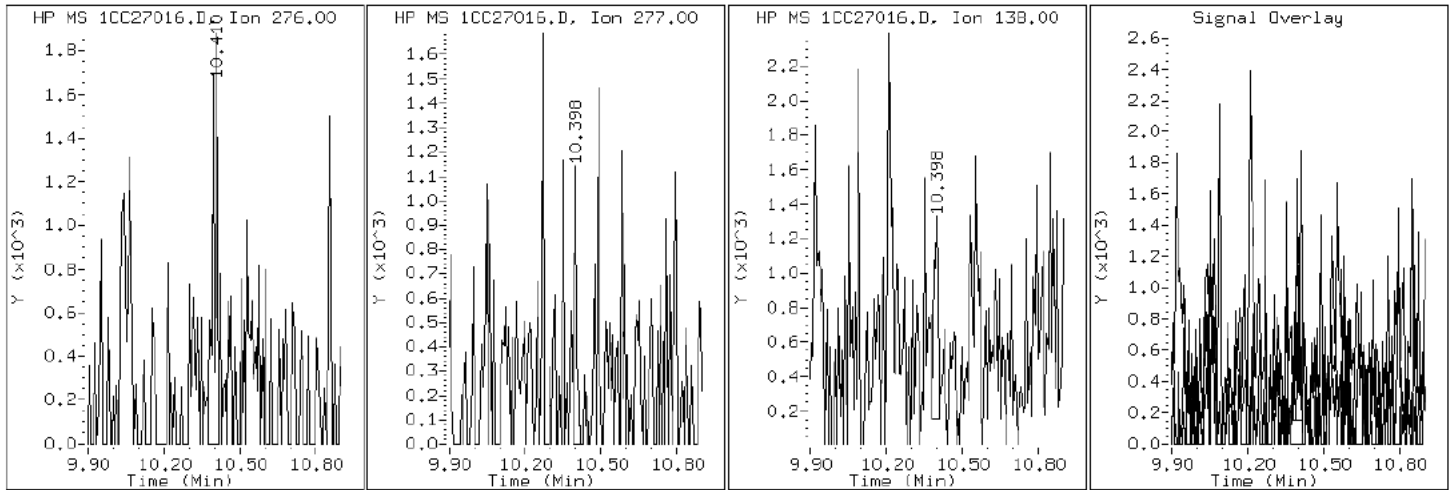
Client ID: CV1323C-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-23-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC27016.D

Date: 27-MAR-2013 14:47

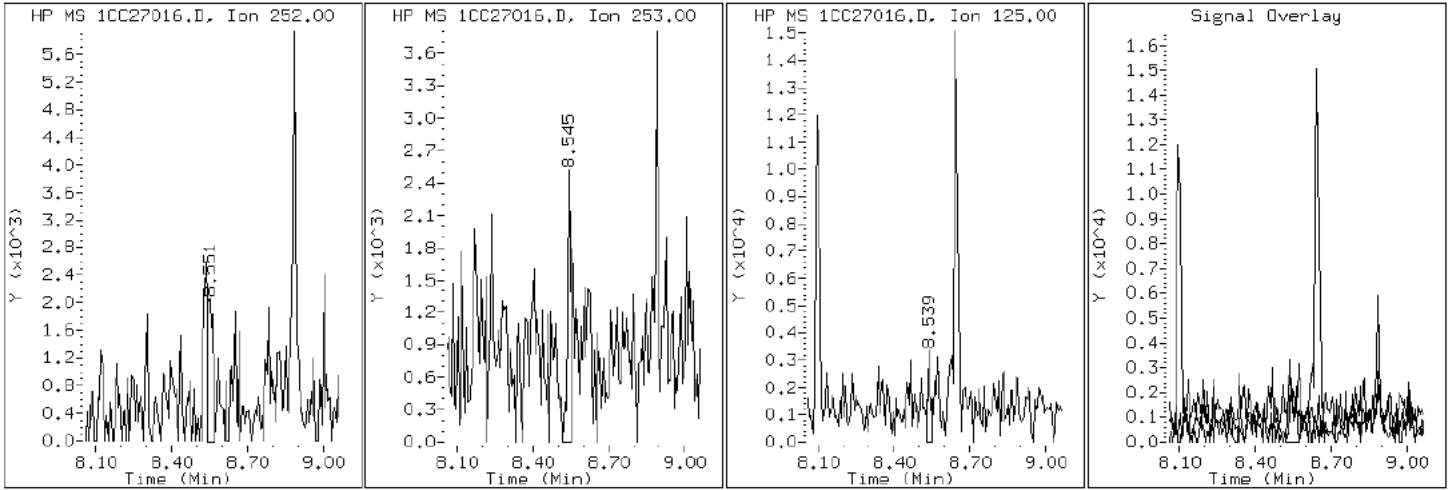
Client ID: CV1323C-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-23-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC27016.D

Date: 27-MAR-2013 14:47

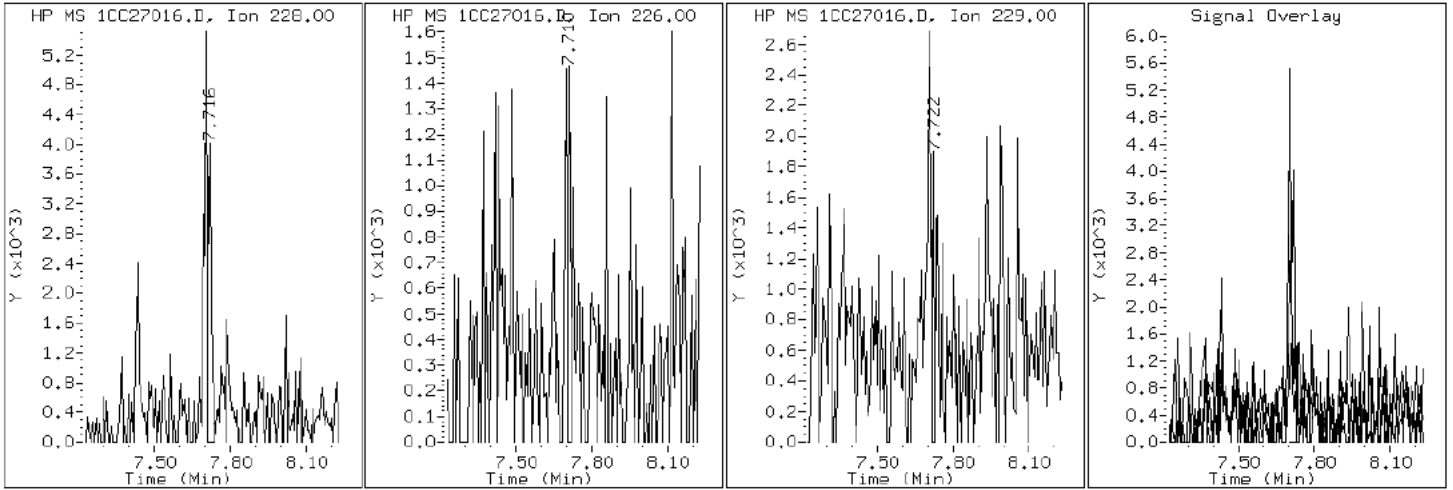
Client ID: CV1323C-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-23-a

Operator: SCC

19 Chrysene



Data File: 1CC27016.D

Date: 27-MAR-2013 14:47

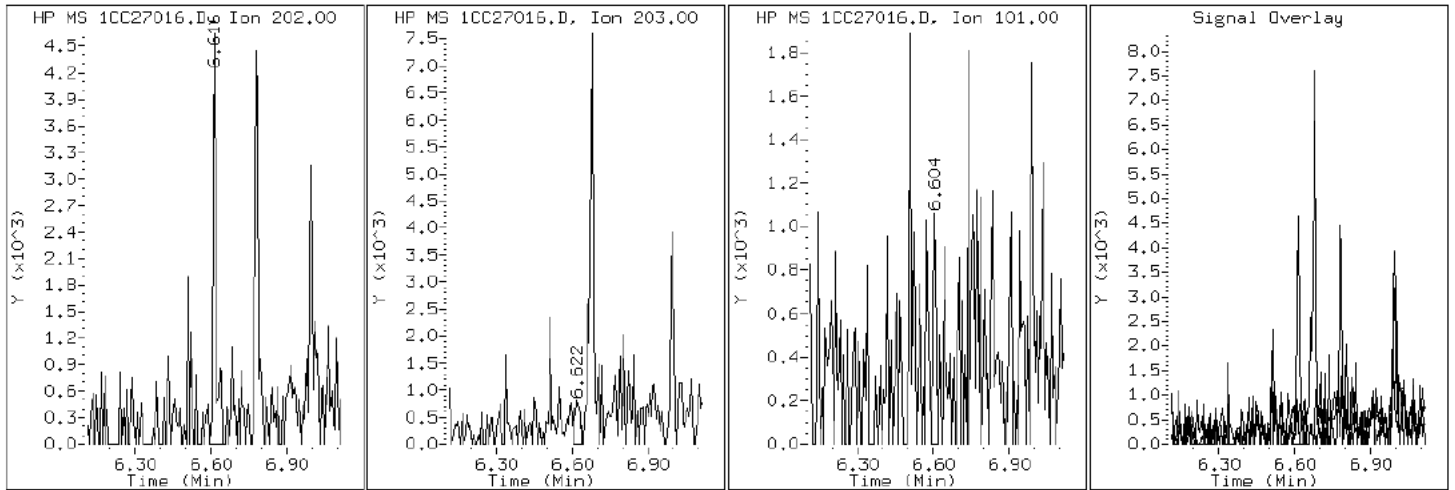
Client ID: CV1323C-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-23-a

Operator: SCC

15 Fluoranthene



Data File: 1CC27016.D

Date: 27-MAR-2013 14:47

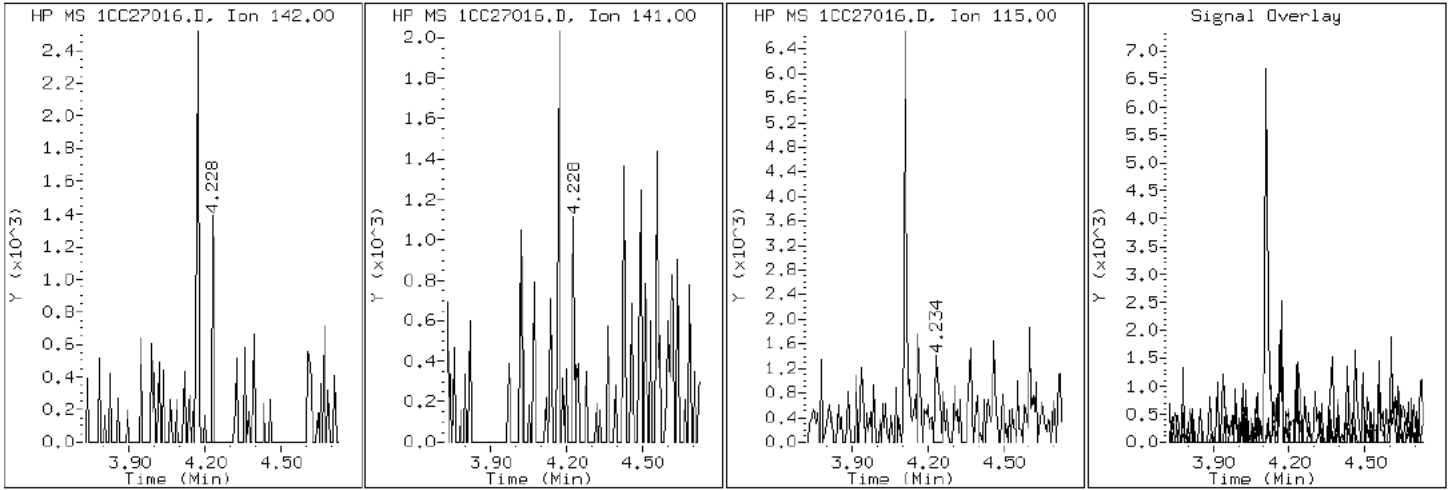
Client ID: CV1323C-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-23-a

Operator: SCC

4 1-Methylnaphthalene





Data File: 1CC27016.D

Date: 27-MAR-2013 14:47

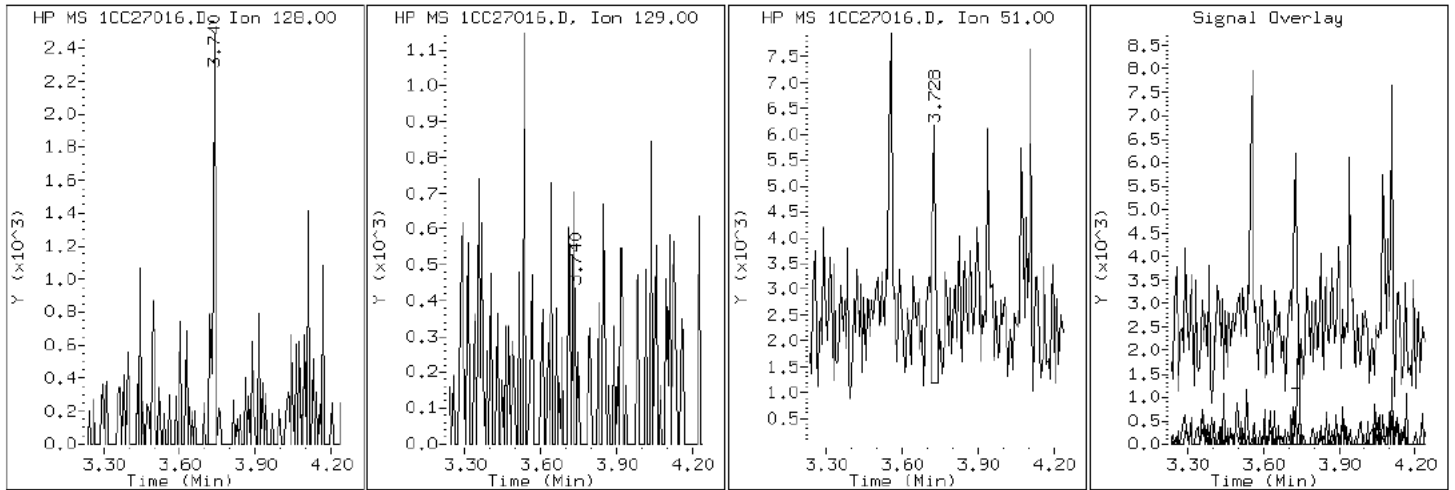
Client ID: CV1323C-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-23-a

Operator: SCC

2 Naphthalene



Data File: 1CC27016.D

Date: 27-MAR-2013 14:47

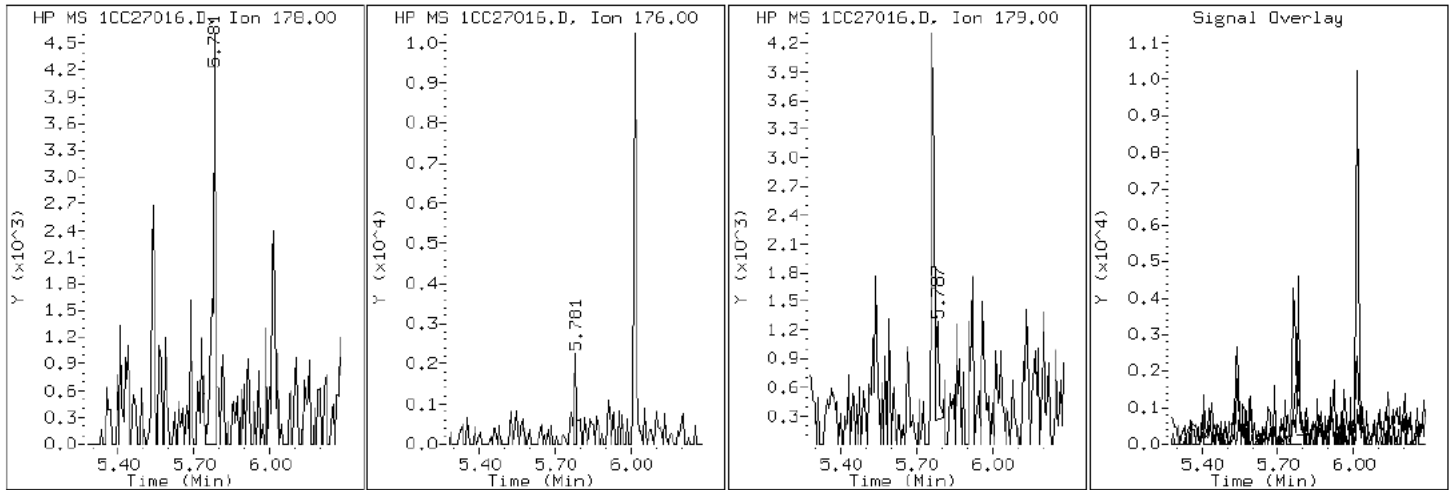
Client ID: CV1323C-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-23-a

Operator: SCC

11 Phenanthrene



Data File: 1CC27016.D

Date: 27-MAR-2013 14:47

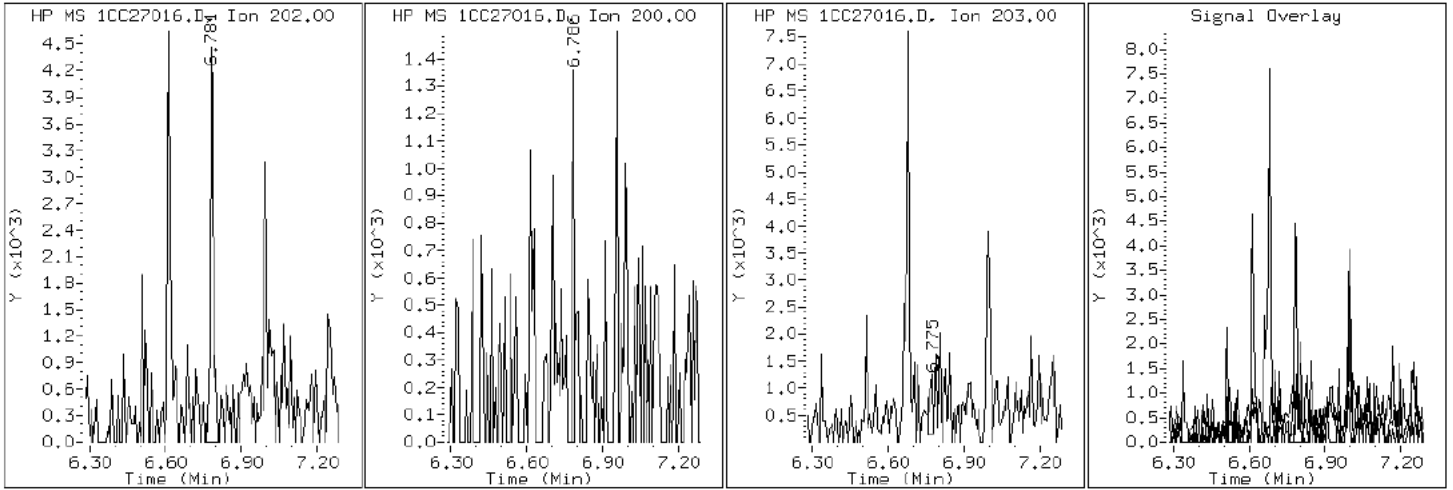
Client ID: CV1323C-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-23-a

Operator: SCC

16 Pyrene

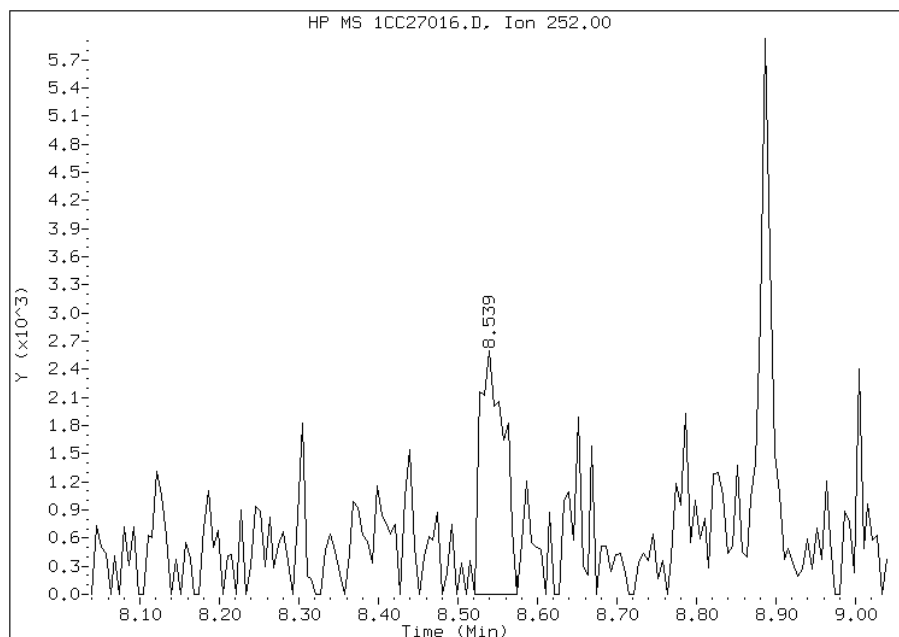


# Manual Integration Report

Data File: 1CC27016.D  
Inj. Date and Time: 27-MAR-2013 14:47  
Instrument ID: BSMC5973.i  
Client ID: CV1323C-GS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/01/2013

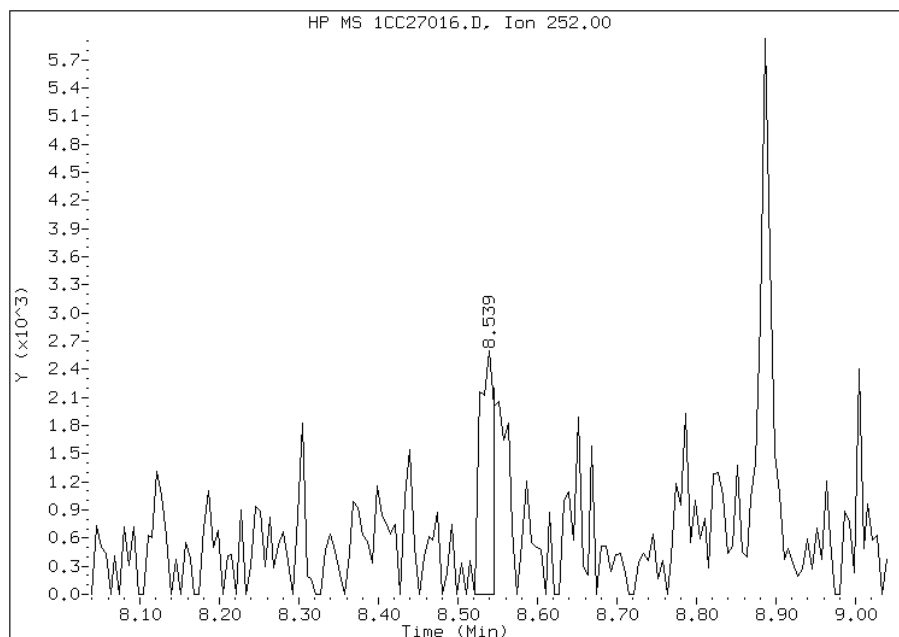
## Processing Integration Results

RT: 8.54  
Response: 5328  
Amount: 0  
Conc: 15



## Manual Integration Results

RT: 8.54  
Response: 3136  
Amount: 0  
Conc: 9



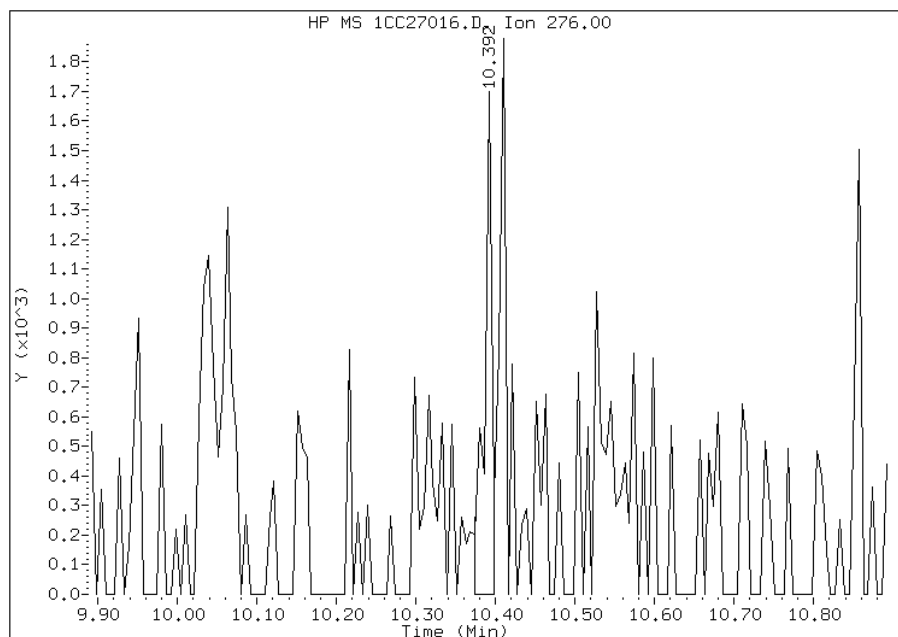
Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:17  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CC27016.D  
Inj. Date and Time: 27-MAR-2013 14:47  
Instrument ID: BSMC5973.i  
Client ID: CV1323C-GS  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/01/2013

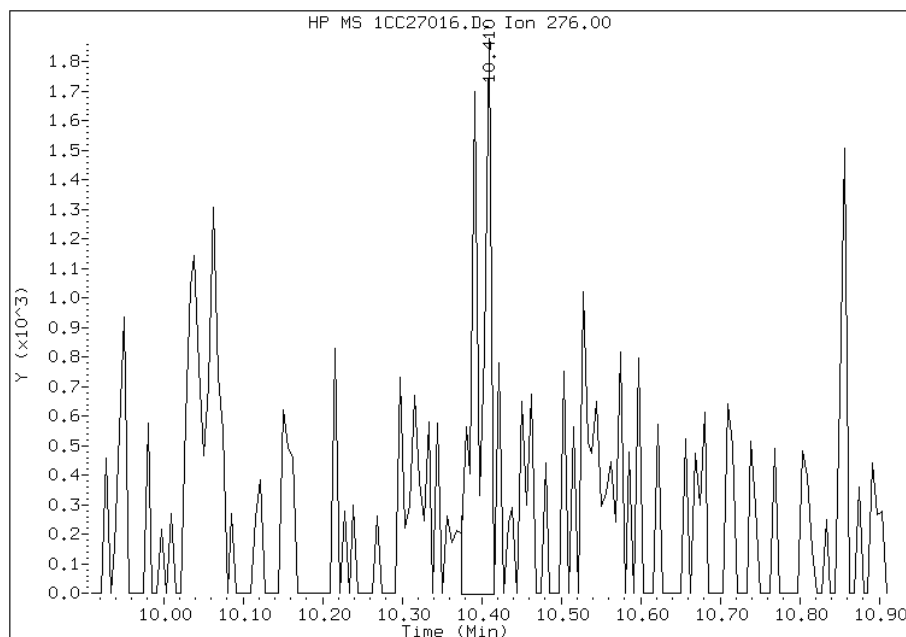
## Processing Integration Results

RT: 10.39  
Response: 1129  
Amount: 0  
Conc: 3



## Manual Integration Results

RT: 10.41  
Response: 2090  
Amount: 0  
Conc: 6



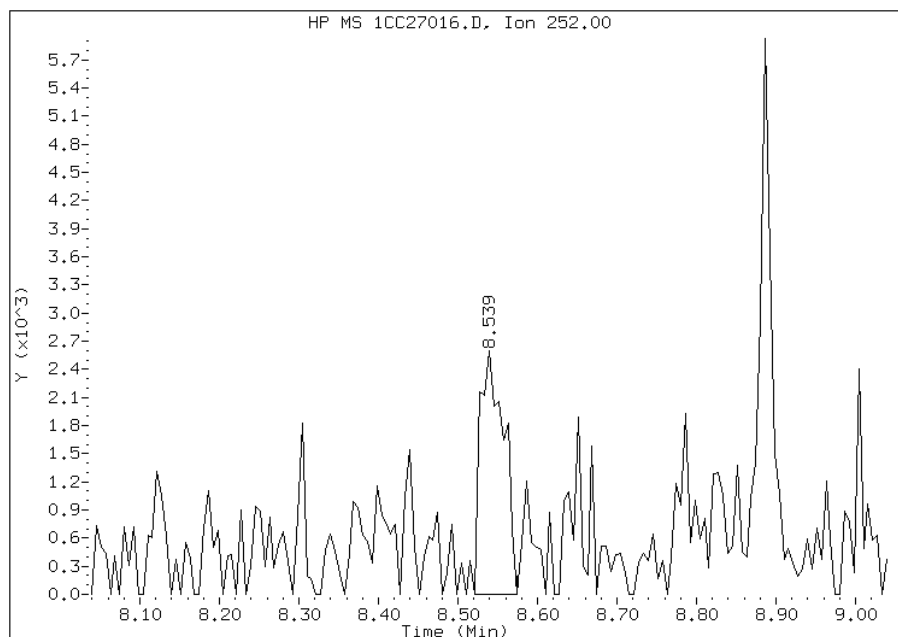
Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:18  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CC27016.D  
Inj. Date and Time: 27-MAR-2013 14:47  
Instrument ID: BSMC5973.i  
Client ID: CV1323C-GS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/01/2013

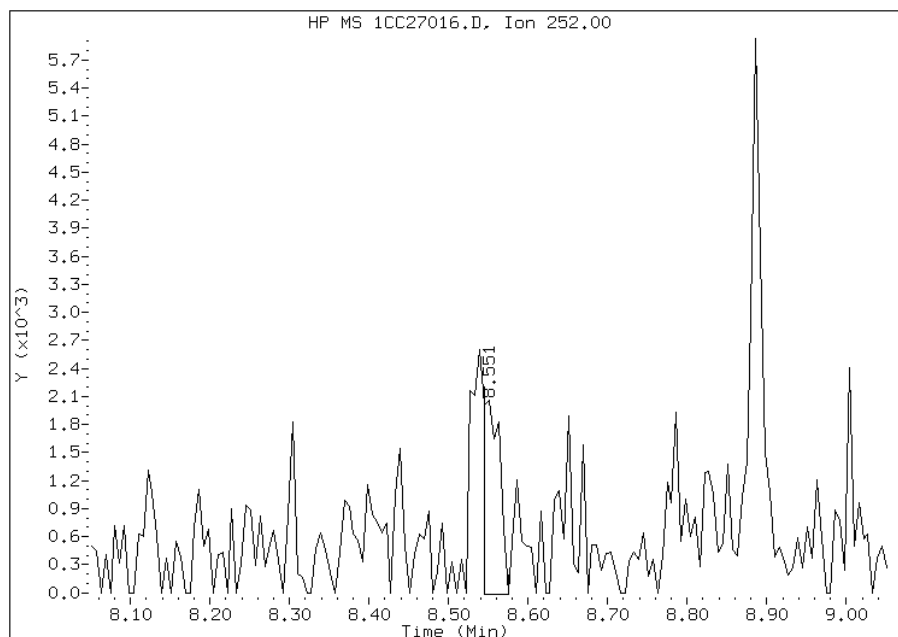
## Processing Integration Results

RT: 8.54  
Response: 5328  
Amount: 0  
Conc: 15



## Manual Integration Results

RT: 8.55  
Response: 2938  
Amount: 0  
Conc: 8



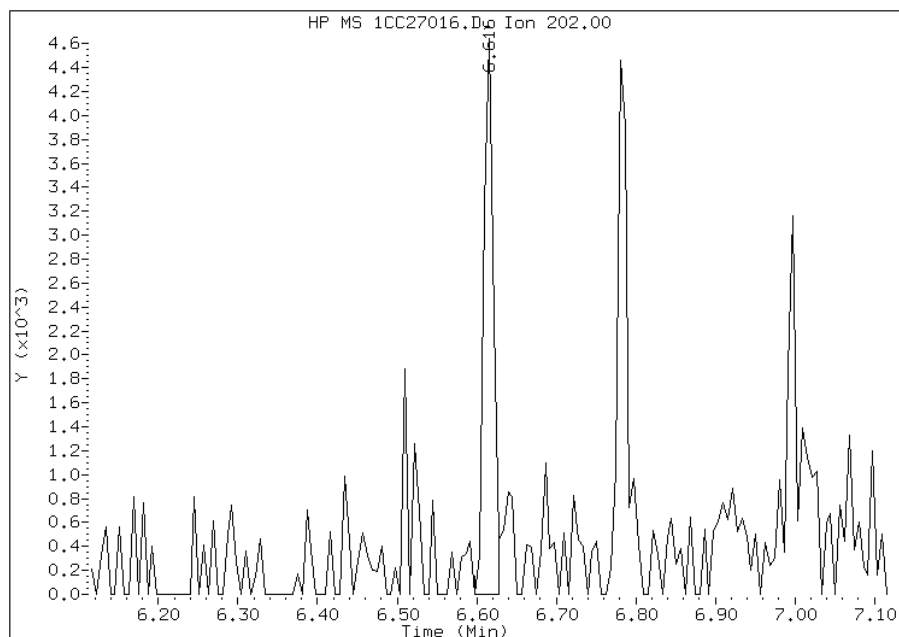
Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:17  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CC27016.D  
Inj. Date and Time: 27-MAR-2013 14:47  
Instrument ID: BSMC5973.i  
Client ID: CV1323C-GS  
Compound: 15 Fluoranthene  
CAS #: 206-44-0  
Report Date: 04/01/2013

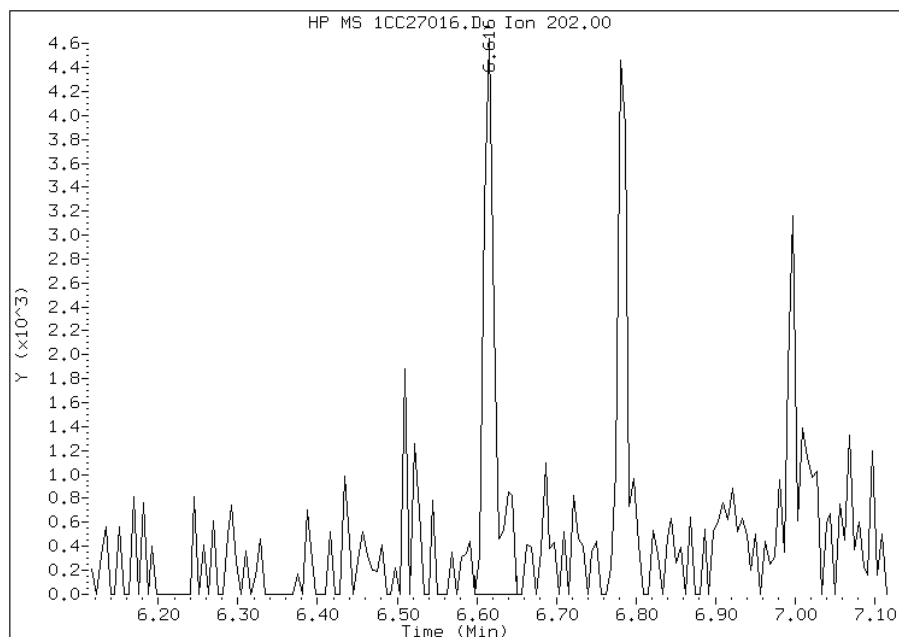
## Processing Integration Results

RT: 6.62  
Response: 3868  
Amount: 0  
Conc: 9



## Manual Integration Results

RT: 6.62  
Response: 4656  
Amount: 0  
Conc: 11



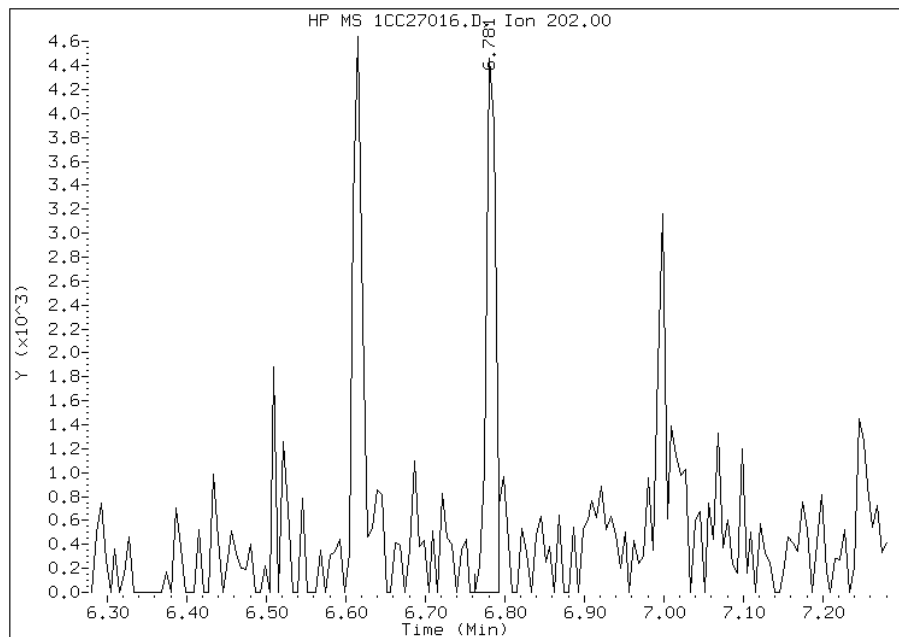
Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:16  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CC27016.D  
Inj. Date and Time: 27-MAR-2013 14:47  
Instrument ID: BSMC5973.i  
Client ID: CV1323C-GS  
Compound: 16 Pyrene  
CAS #: 129-00-0  
Report Date: 04/01/2013

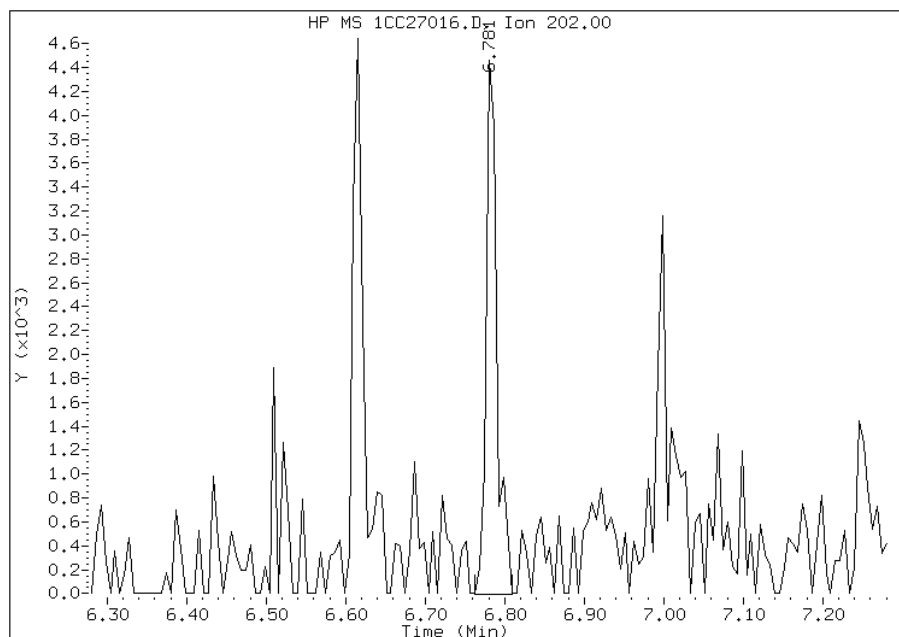
## Processing Integration Results

RT: 6.78  
Response: 3651  
Amount: 0  
Conc: 10



## Manual Integration Results

RT: 6.78  
Response: 4160  
Amount: 0  
Conc: 11



Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:15  
Manual Integration Reason: Baseline Event



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Client Sample ID: CV1323D-GS Lab Sample ID: 680-88592-24  
 Matrix: Solid Lab File ID: 1CC27017.D  
 Analysis Method: 8270C LL Date Collected: 03/20/2013 14:20  
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07  
 Sample wt/vol: 14.90 (g) Date Analyzed: 03/27/2013 15:05  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: 42.6 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	180	U	180	35
208-96-8	Acenaphthylene	10	J	70	8.8
120-12-7	Anthracene	33		15	7.4
56-55-3	Benzo[a]anthracene	120		14	6.8
50-32-8	Benzo[a]pyrene	120		18	9.1
205-99-2	Benzo[b]fluoranthene	220		21	11
191-24-2	Benzo[g,h,i]perylene	140		35	7.7
207-08-9	Benzo[k]fluoranthene	85		14	6.3
218-01-9	Chrysene	190		16	7.9
53-70-3	Dibenz(a,h)anthracene	37		35	7.2
206-44-0	Fluoranthene	240		35	7.0
86-73-7	Fluorene	19	J	35	7.2
193-39-5	Indeno[1,2,3-cd]pyrene	99		35	12
90-12-0	1-Methylnaphthalene	45	J	70	7.7
91-57-6	2-Methylnaphthalene	75		70	12
91-20-3	Naphthalene	140		70	7.7
85-01-8	Phenanthrene	160		14	6.8
129-00-0	Pyrene	270		35	6.5

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\BSMC5973.i\1C032713.b\1CC27017.D  
 Lab Smp Id: 680-88592-A-24-A Client Smp ID: CV1323D-GS  
 Inj Date : 27-MAR-2013 15:05  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88592-a-24-a  
 Misc Info : 680-88592-A-24-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m  
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	14.900	Weight Extracted
M	42.553	% 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		3.727	3.727	(1.000)	765500	40.0000	
* 6 Acenaphthene-d10	164		4.815	4.815	(1.000)	588901	40.0000	
* 10 Phenanthrene-d10	188		5.762	5.762	(1.000)	1087130	40.0000	
\$ 14 o-Terphenyl	230		6.015	6.015	(1.044)	80154	4.88333	570.5104
* 18 Chrysene-d12	240		7.703	7.704	(1.000)	1223252	40.0000	
* 23 Perylene-d12	264		8.892	8.886	(1.000)	1164499	40.0000	
2 Naphthalene	128		3.739	3.739	(1.003)	24372	1.22295	142.8751
3 2-Methylnaphthalene	142		4.168	4.168	(1.118)	8562	0.64408	75.2464
4 1-Methylnaphthalene	142		4.233	4.227	(1.136)	4709	0.38894	45.4396(Q)
5 Acenaphthylene	152		4.727	4.727	(0.982)	2111	0.08891	10.3874(Q)
9 Fluorene	166		5.157	5.157	(1.071)	3066	0.16428	19.1924
11 Phenanthrene	178		5.780	5.780	(1.003)	43997	1.39962	163.5149
12 Anthracene	178		5.815	5.815	(1.009)	8663	0.28179	32.9205
13 Carbazole	167		5.921	5.921	(1.028)	6822	0.24963	29.1636

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.615	6.615	(1.148)	70169	2.03831	238.1319
16 Pyrene	202	6.786	6.786	(0.881)	74974	2.28071	266.4509
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	36533	1.03477	120.8903
19 Chrysene	228	7.721	7.727	(1.002)	56493	1.59892	186.7992
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.960)	57836	1.90046	222.0269
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.963)	22584	0.72340	84.5136(Q)
22 Benzo(a)pyrene	252	8.833	8.833	(0.993)	29482	0.99736	116.5195
24 Indeno(1,2,3-cd)pyrene	276	10.045	10.050	(1.130)	23491	0.84477	98.6925(M)
25 Dibenzo(a,h)anthracene	278	10.074	10.068	(1.133)	8700	0.31985	37.3680(M)
26 Benzo(g,h,i)perylene	276	10.397	10.397	(1.169)	33875	1.16452	136.0490

QC Flag Legend

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

Data File: 1CC27017.D

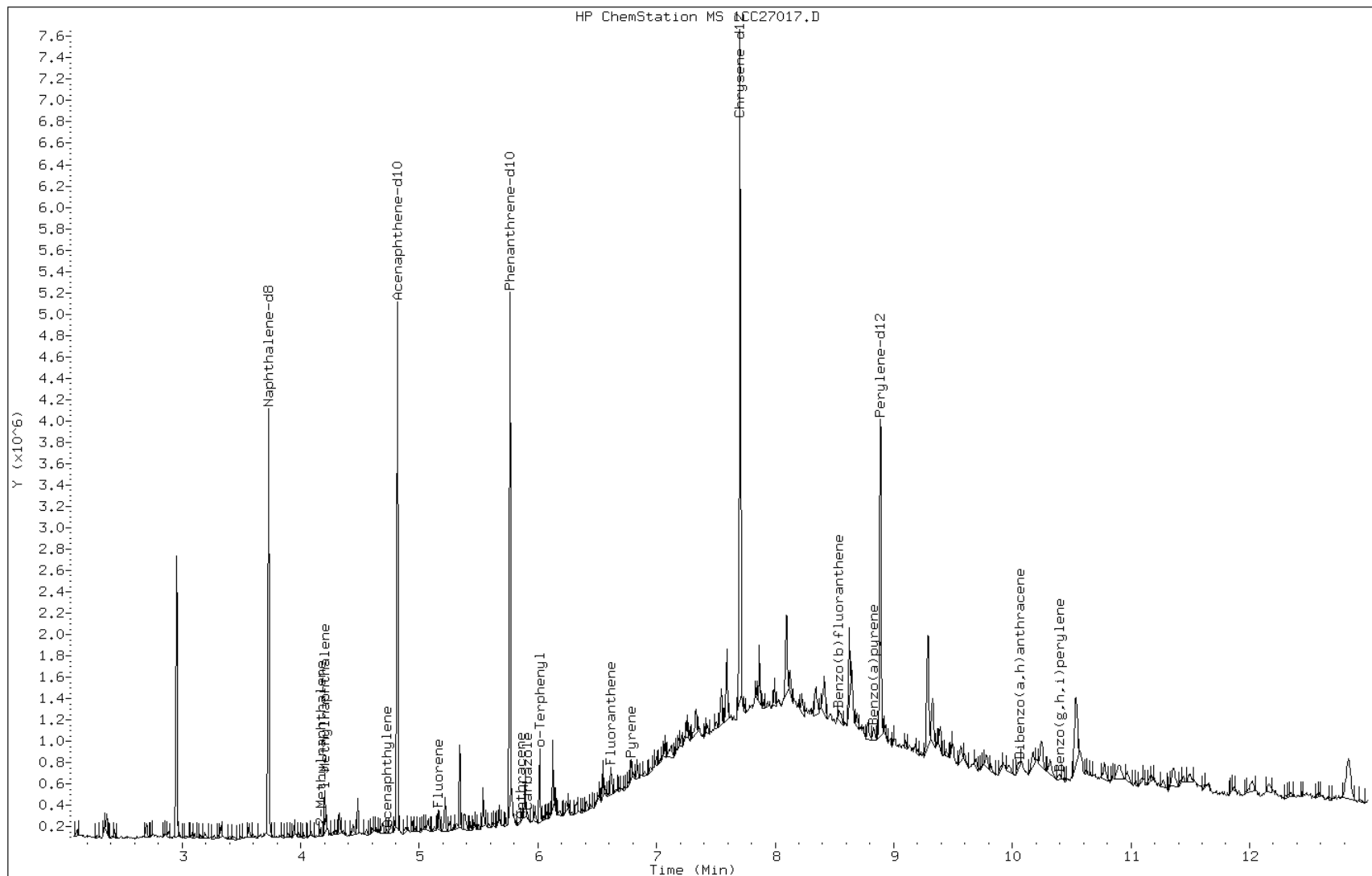
Date: 27-MAR-2013 15:05

Client ID: CV1323D-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-24-a

Operator: SCC



Data File: 1CC27017.D

Date: 27-MAR-2013 15:05

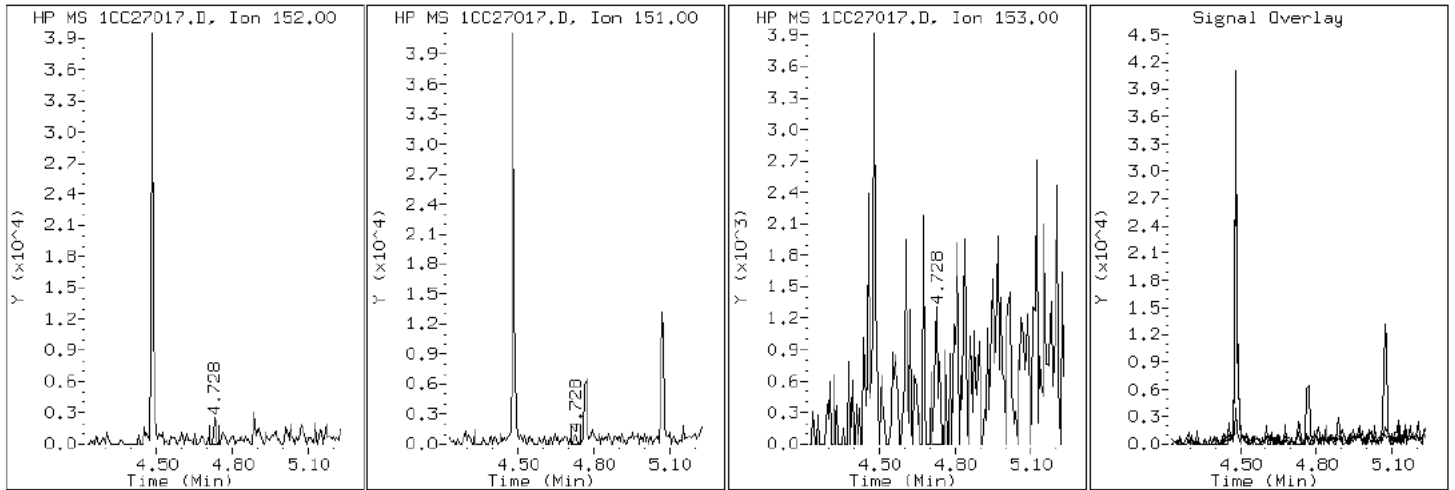
Client ID: CV1323D-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-24-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC27017.D

Date: 27-MAR-2013 15:05

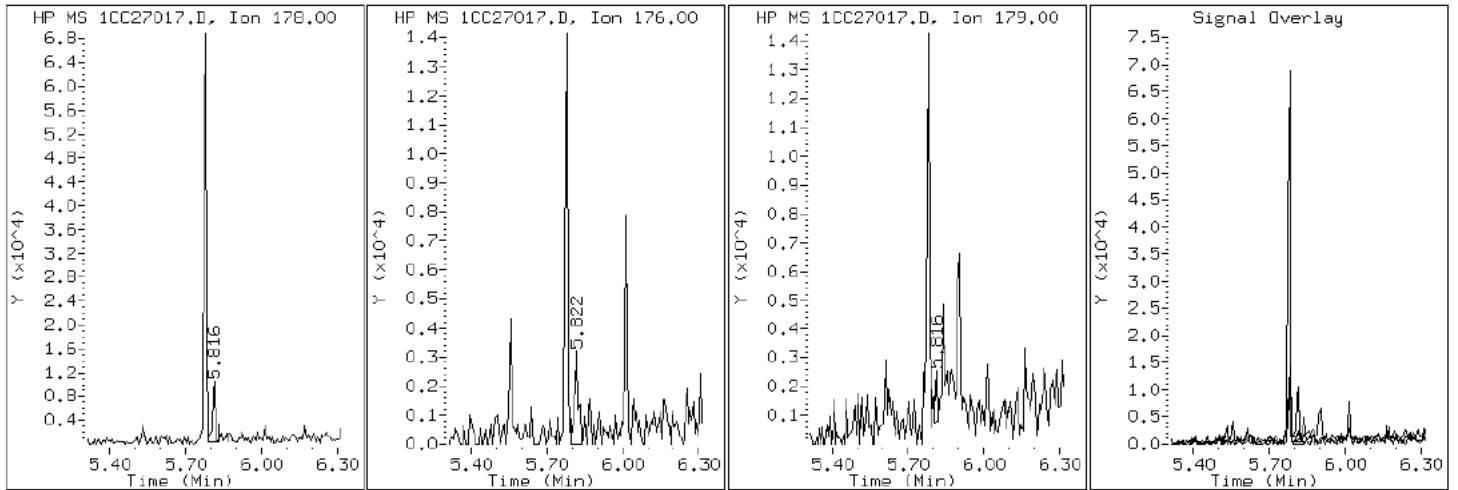
Client ID: CV1323D-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-24-a

Operator: SCC

12 Anthracene



Data File: 1CC27017.D

Date: 27-MAR-2013 15:05

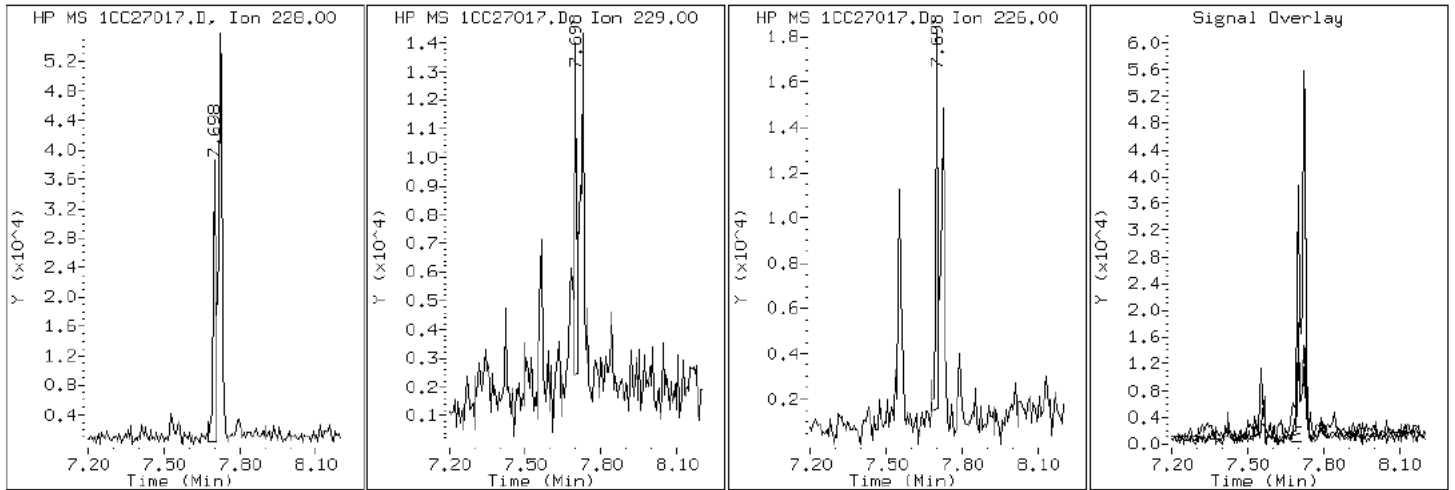
Client ID: CV1323D-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-24-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC27017.D

Date: 27-MAR-2013 15:05

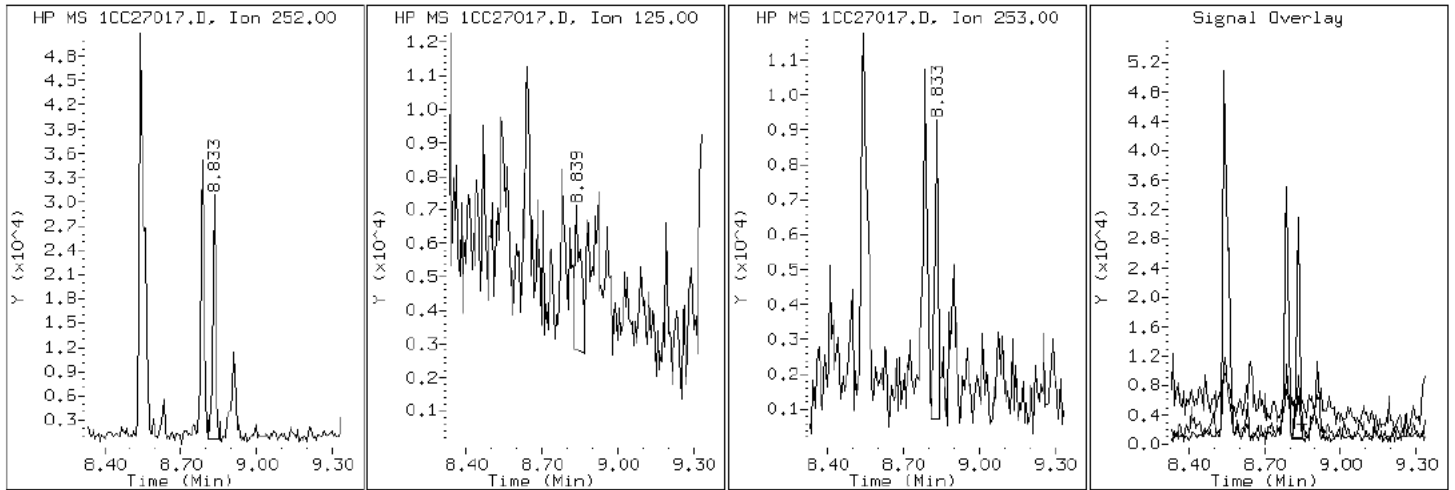
Client ID: CV1323D-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-24-a

Operator: SCC

22 Benzo(a)pyrene





Data File: 1CC27017.D

Date: 27-MAR-2013 15:05

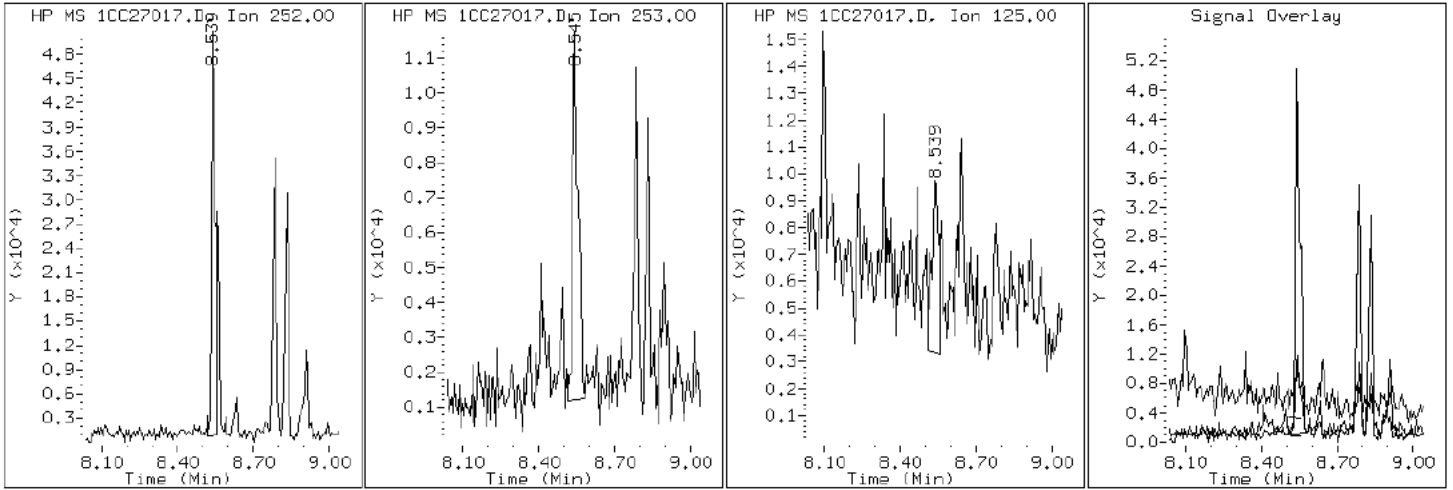
Client ID: CV1323D-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-24-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC27017.D

Date: 27-MAR-2013 15:05

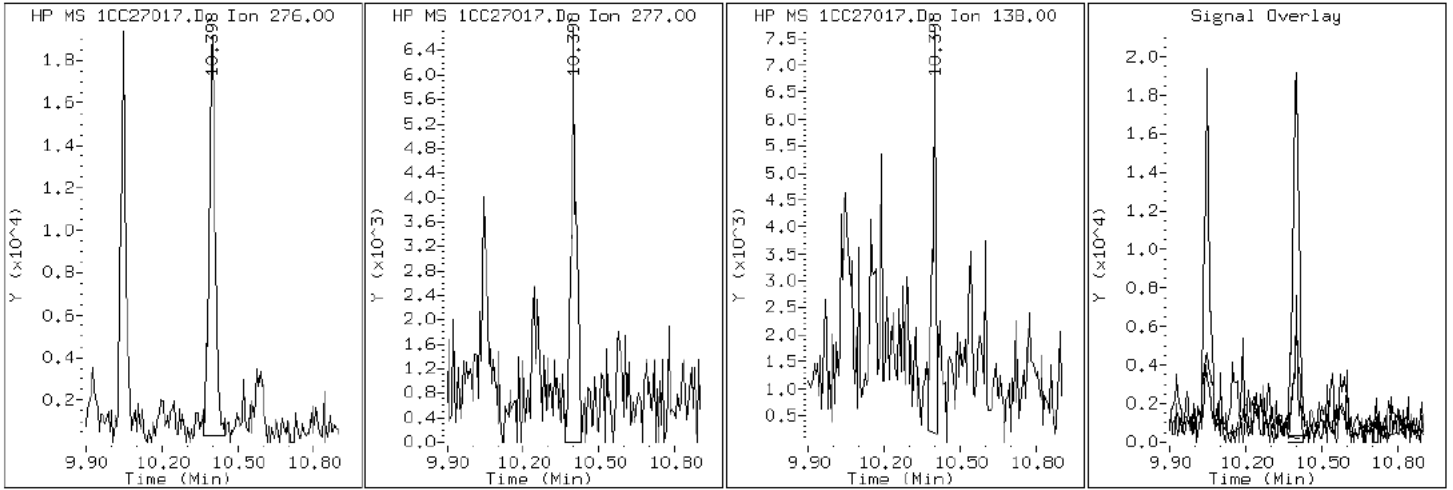
Client ID: CV1323D-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-24-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC27017.D

Date: 27-MAR-2013 15:05

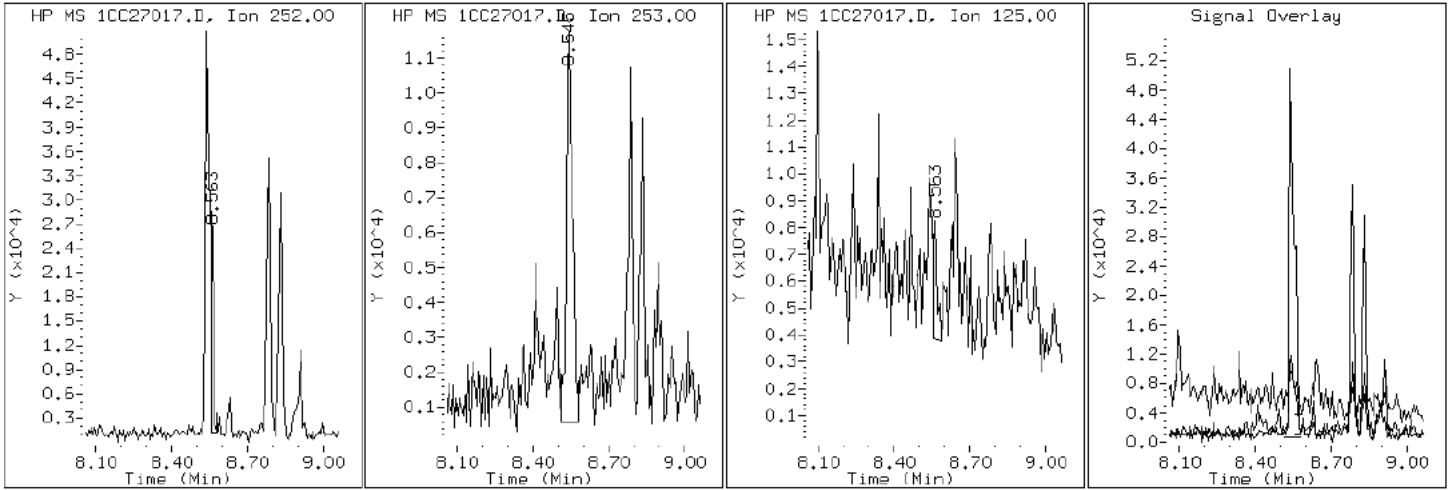
Client ID: CV1323D-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-24-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC27017.D

Date: 27-MAR-2013 15:05

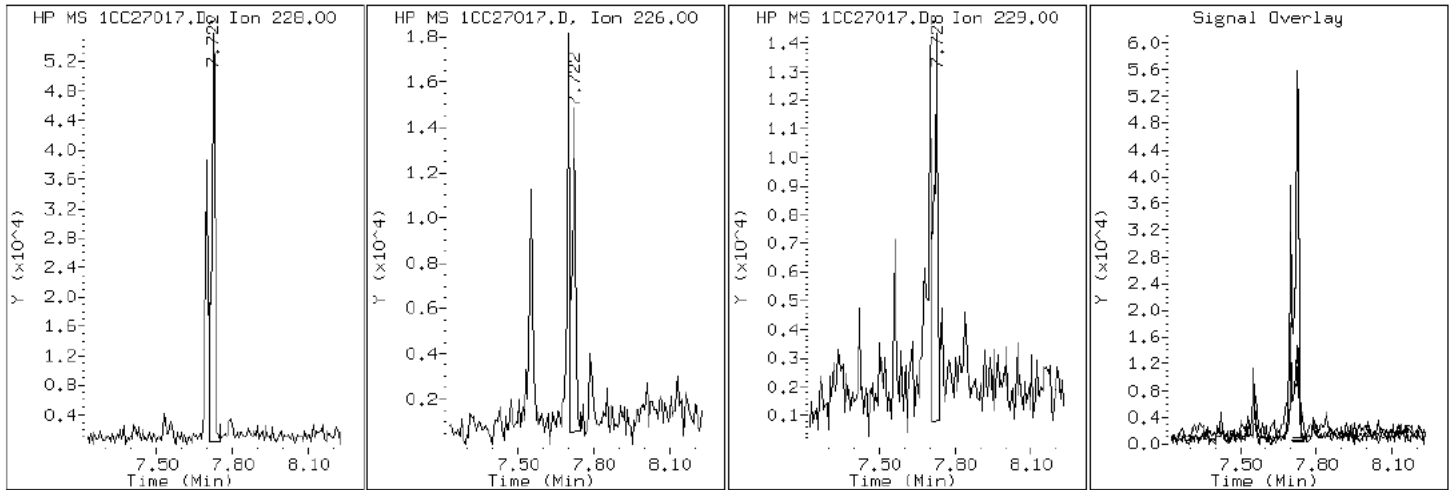
Client ID: CV1323D-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-24-a

Operator: SCC

19 Chrysene



Data File: 1CC27017.D

Date: 27-MAR-2013 15:05

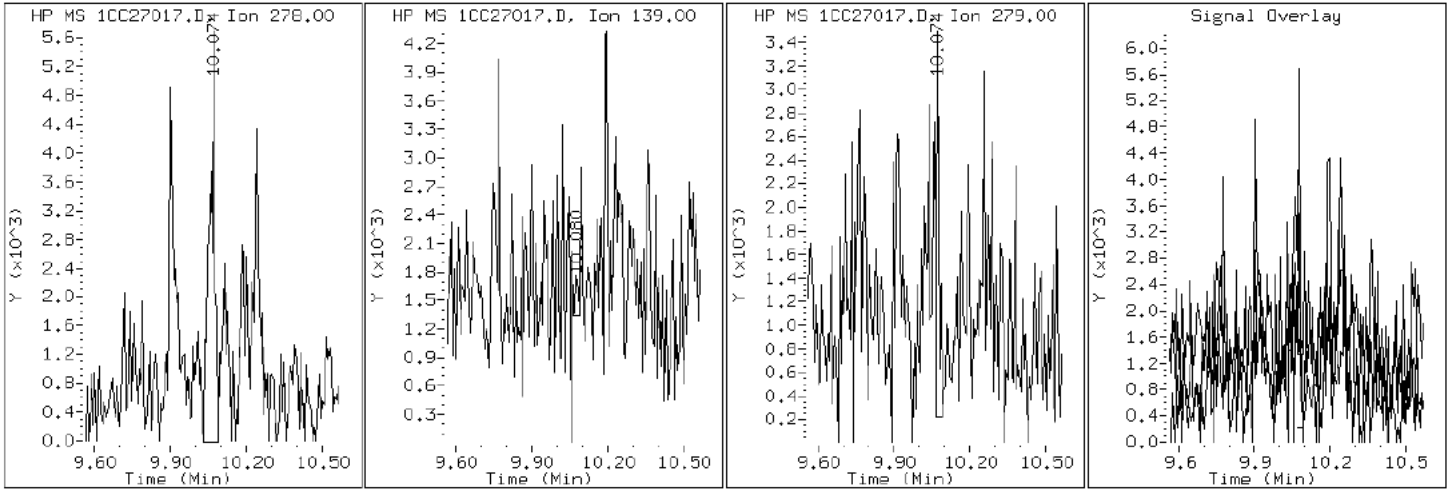
Client ID: CV1323D-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-24-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC27017.D

Date: 27-MAR-2013 15:05

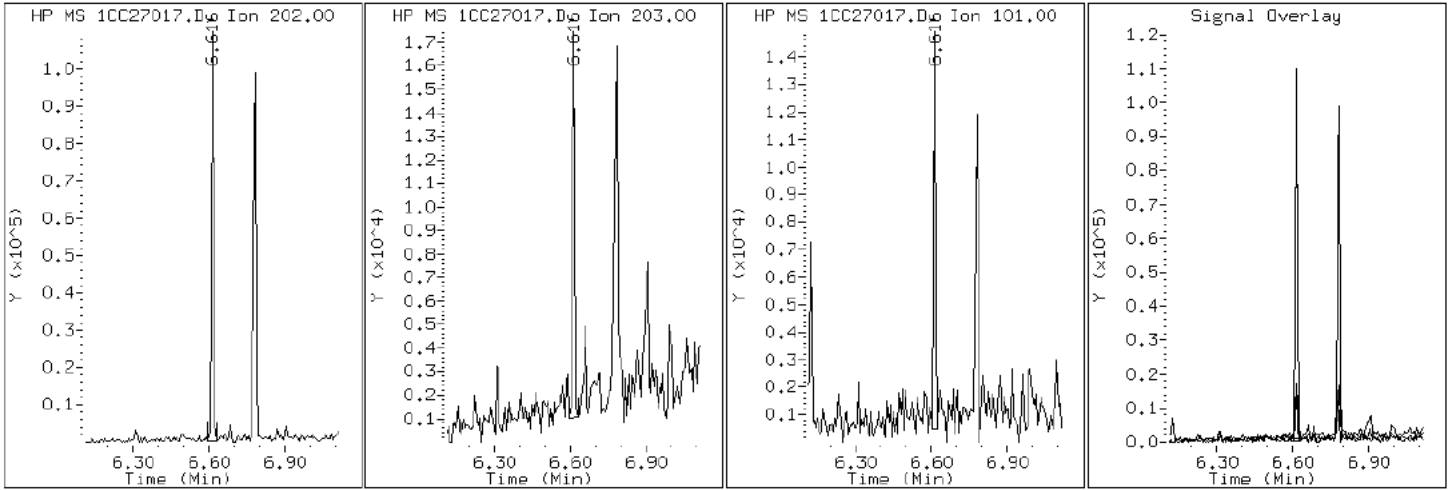
Client ID: CV1323D-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-24-a

Operator: SCC

15 Fluoranthene



Data File: 1CC27017.D

Date: 27-MAR-2013 15:05

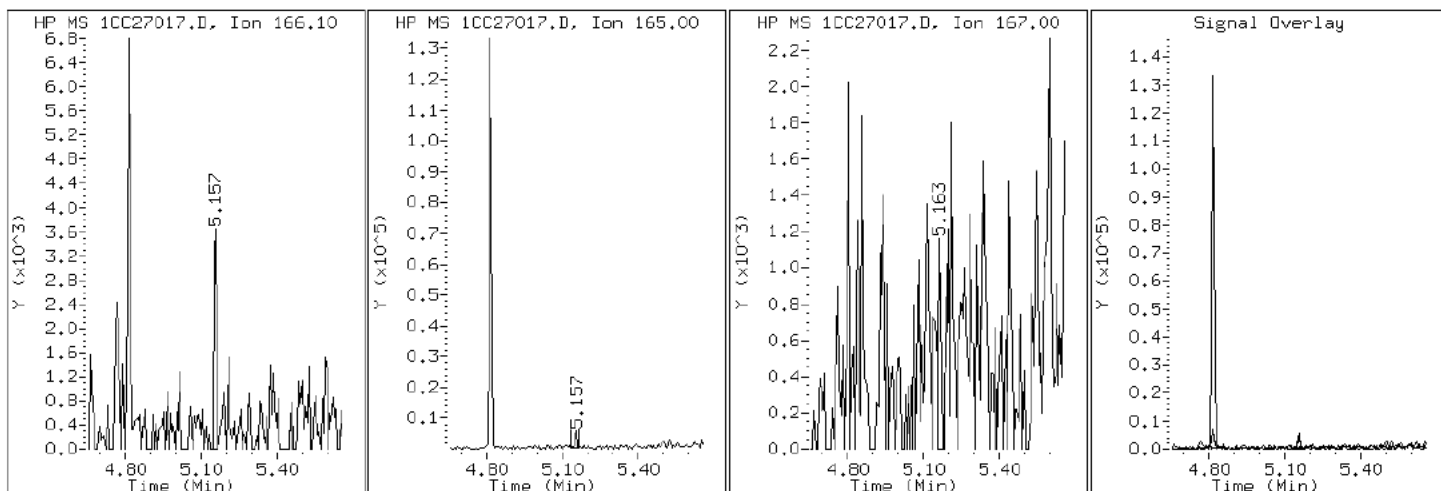
Client ID: CV1323D-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-24-a

Operator: SCC

9 Fluorene



Data File: 1CC27017.D

Date: 27-MAR-2013 15:05

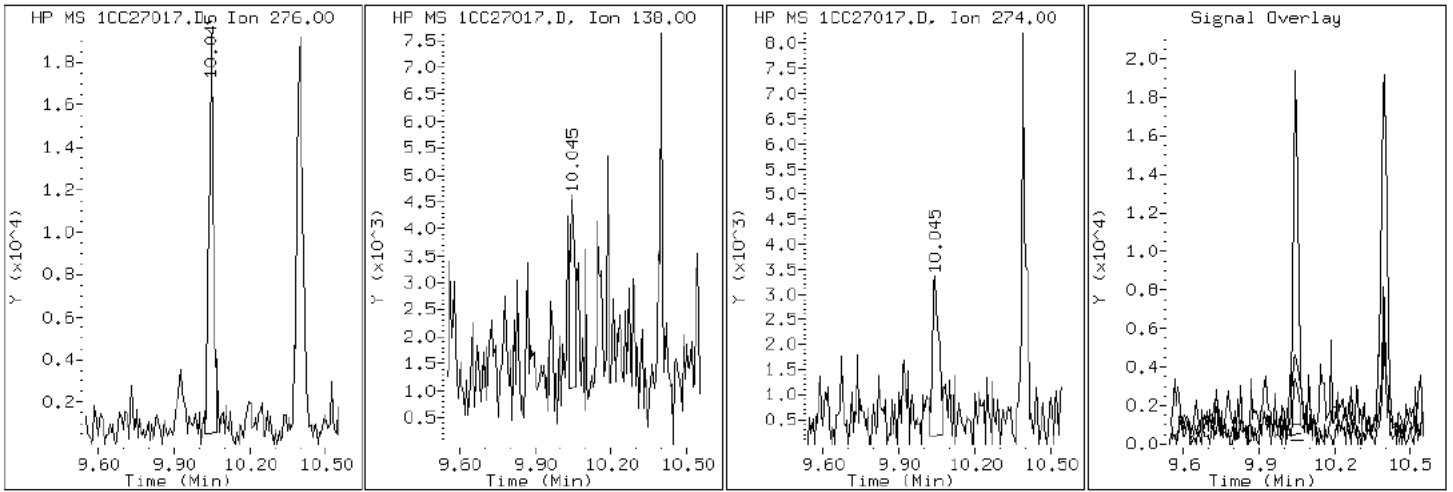
Client ID: CV1323D-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-24-a

Operator: SCC

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





Data File: 1CC27017.D

Date: 27-MAR-2013 15:05

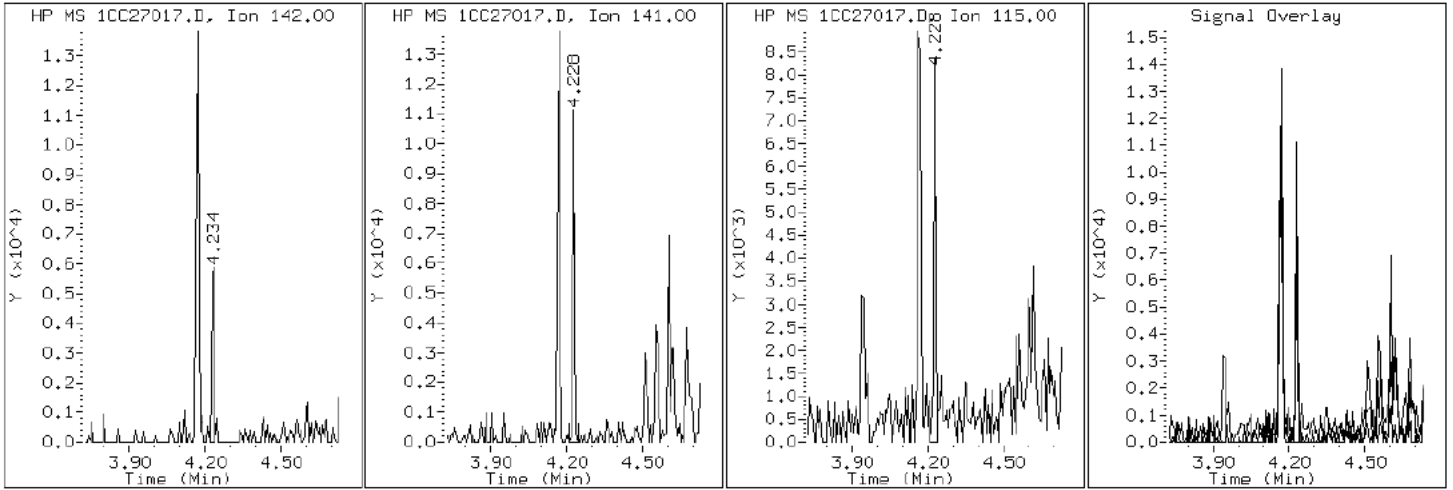
Client ID: CV1323D-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-24-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC27017.D

Date: 27-MAR-2013 15:05

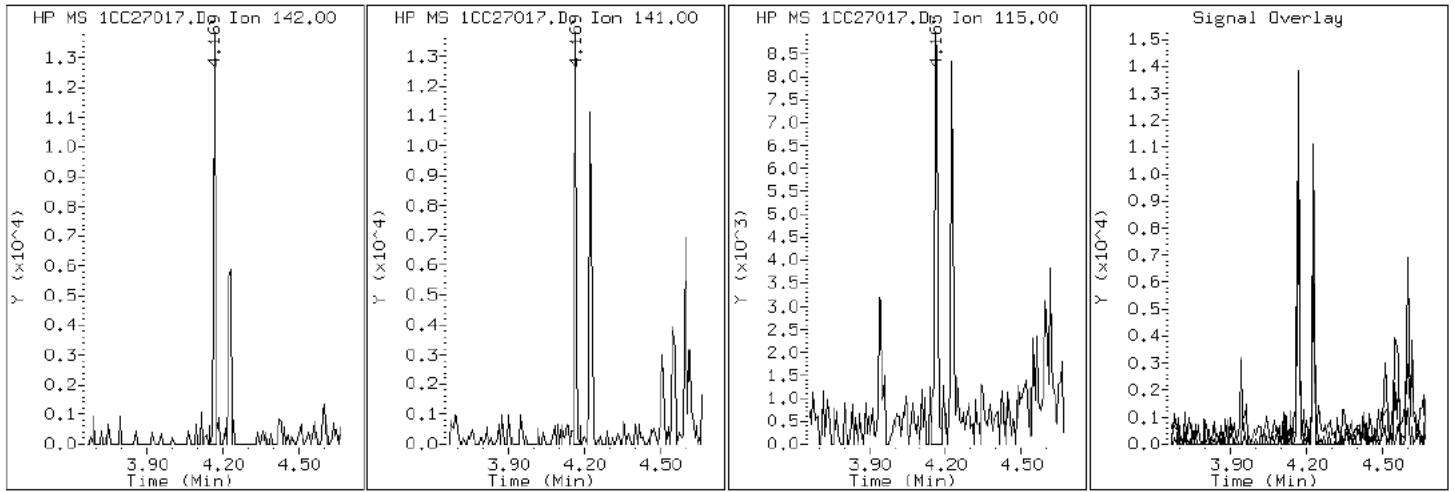
Client ID: CV1323D-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-24-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC27017.D

Date: 27-MAR-2013 15:05

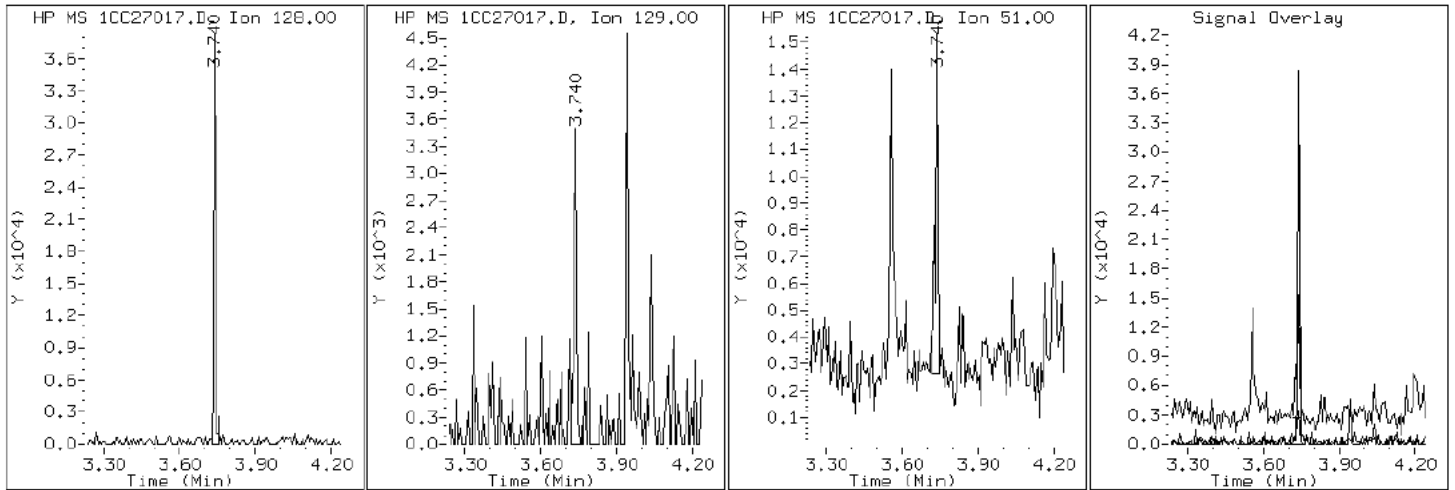
Client ID: CV1323D-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-24-a

Operator: SCC

2 Naphthalene



Data File: 1CC27017.D

Date: 27-MAR-2013 15:05

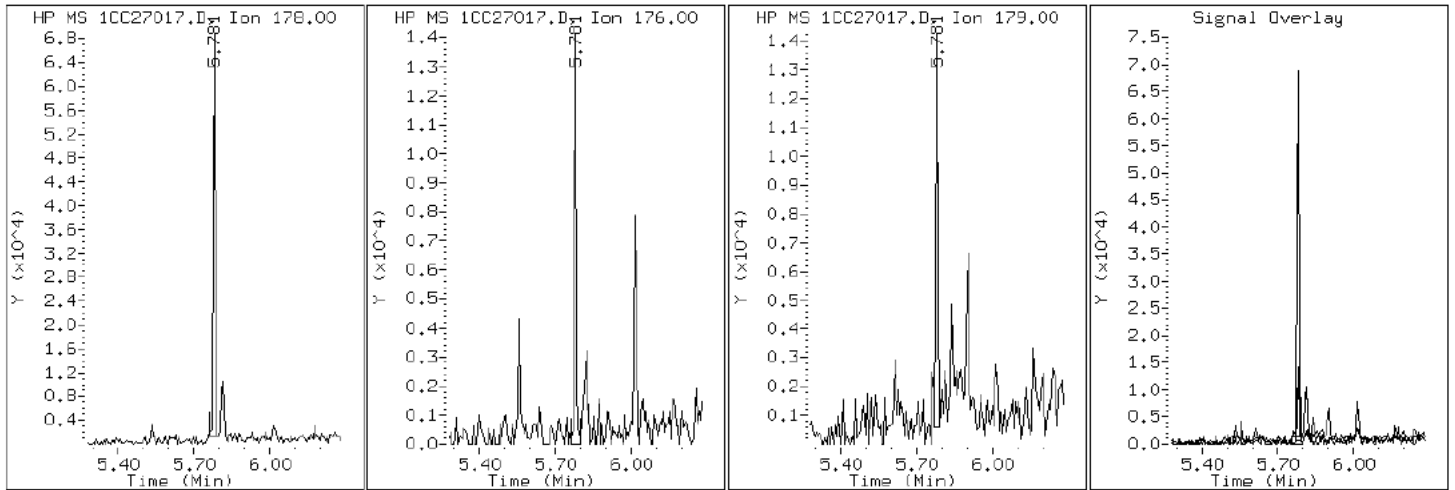
Client ID: CV1323D-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-24-a

Operator: SCC

11 Phenanthrene



Data File: 1CC27017.D

Date: 27-MAR-2013 15:05

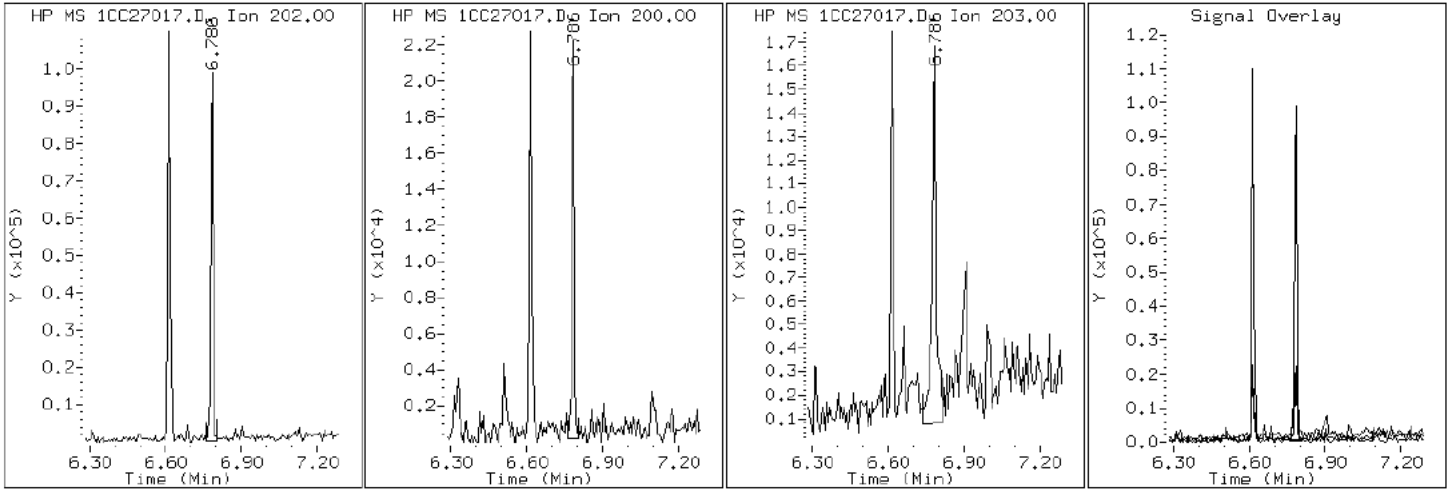
Client ID: CV1323D-GS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-24-a

Operator: SCC

16 Pyrene

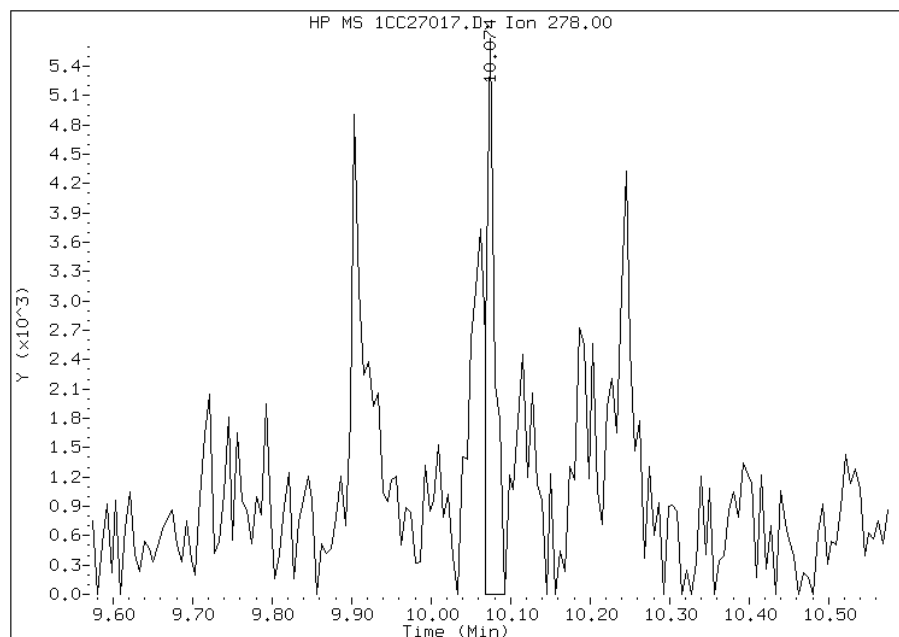


# Manual Integration Report

Data File: 1CC27017.D  
Inj. Date and Time: 27-MAR-2013 15:05  
Instrument ID: BSMC5973.i  
Client ID: CV1323D-GS  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/01/2013

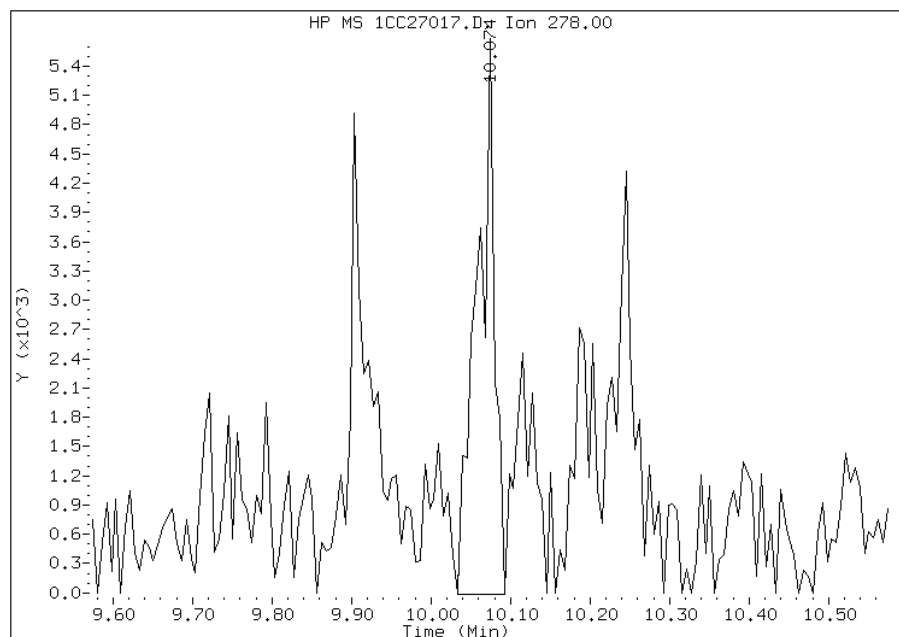
## Processing Integration Results

RT: 10.07  
Response: 4315  
Amount: 0  
Conc: 19



## Manual Integration Results

RT: 10.07  
Response: 8700  
Amount: 0  
Conc: 37



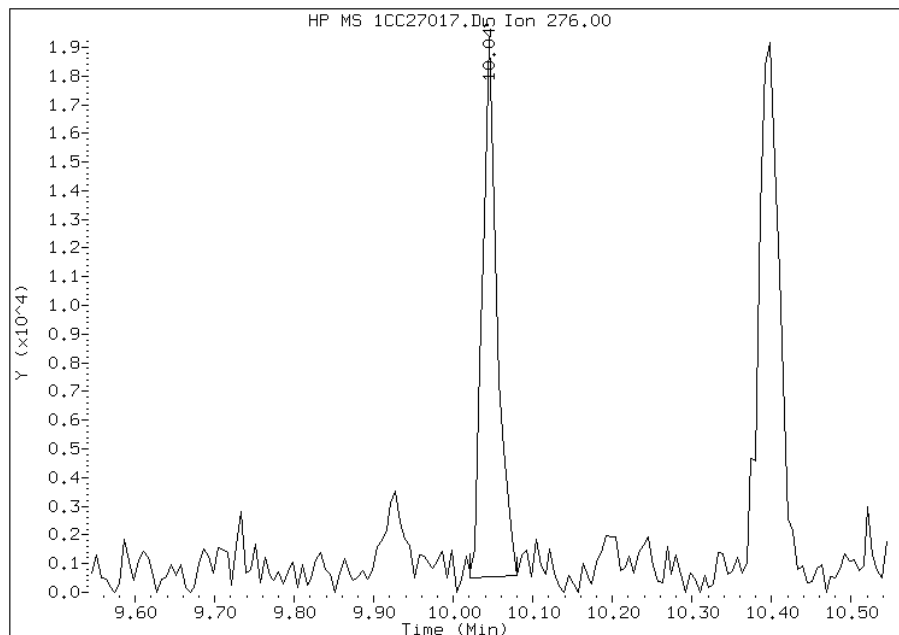
Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:19  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CC27017.D  
Inj. Date and Time: 27-MAR-2013 15:05  
Instrument ID: BSMC5973.i  
Client ID: CV1323D-GS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/01/2013

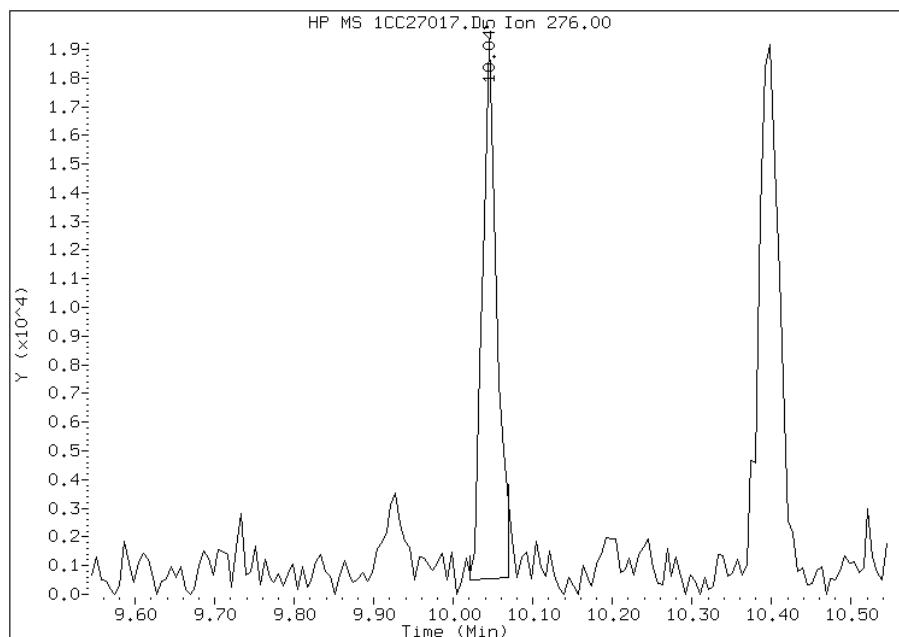
## Processing Integration Results

RT: 10.05  
Response: 23953  
Amount: 1  
Conc: 101



## Manual Integration Results

RT: 10.05  
Response: 23491  
Amount: 1  
Conc: 99



Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:19  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Client Sample ID: CV0763A-CS-SP Lab Sample ID: 680-88592-25  
 Matrix: Solid Lab File ID: 1CC27018.D  
 Analysis Method: 8270C LL Date Collected: 03/20/2013 14:01  
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07  
 Sample wt/vol: 15.15(g) Date Analyzed: 03/27/2013 15:24  
 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.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	53	U	53	6.7
120-12-7	Anthracene	11	U	11	5.6
56-55-3	Benzo[a]anthracene	22		11	5.2
50-32-8	Benzo[a]pyrene	20		14	6.9
205-99-2	Benzo[b]fluoranthene	29		16	8.1
191-24-2	Benzo[g,h,i]perylene	20	J	27	5.9
207-08-9	Benzo[k]fluoranthene	12		11	4.8
218-01-9	Chrysene	28		12	6.0
53-70-3	Dibenz(a,h)anthracene	27	U	27	5.5
206-44-0	Fluoranthene	34		27	5.3
86-73-7	Fluorene	27	U	27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	14	J	27	9.5
90-12-0	1-Methylnaphthalene	30	J	53	5.9
91-57-6	2-Methylnaphthalene	24	J	53	9.5
91-20-3	Naphthalene	26	J	53	5.9
85-01-8	Phenanthrene	30		11	5.2
129-00-0	Pyrene	30		27	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	80		30-130



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27018.D  
 Lab Smp Id: 680-88592-A-25-A Client Smp ID: CV0763A-CS-SP  
 Inj Date : 27-MAR-2013 15:24  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88592-a-25-a  
 Misc Info : 680-88592-A-25-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m  
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	15.150	Weight Extracted
M	25.832	% 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		3.727	3.727	(1.000)	729548	40.0000		
* 6 Acenaphthene-d10	164		4.816	4.815	(1.000)	554270	40.0000		
* 10 Phenanthrene-d10	188		5.763	5.762	(1.000)	1063547	40.0000		
\$ 14 o-Terphenyl	230		6.015	6.015	(1.044)	129164	8.04372	715.8563	
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1175418	40.0000		
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1133858	40.0000		
2 Naphthalene	128		3.739	3.739	(1.003)	5542	0.29179	25.9683(Q)	
3 2-Methylnaphthalene	142		4.168	4.168	(1.118)	3353	0.26466	23.5535	
4 1-Methylnaphthalene	142		4.227	4.227	(1.134)	3870	0.33540	29.8490(Q)	
11 Phenanthrene	178		5.780	5.780	(1.003)	10518	0.34201	30.4378	
15 Fluoranthene	202		6.615	6.615	(1.148)	12772	0.37923	33.7502	
16 Pyrene	202		6.786	6.786	(0.881)	10797	0.34181	30.4196	
17 Benzo(a)anthracene	228		7.704	7.698	(1.000)	8326	0.24542	21.8417(Q)	
19 Chrysene	228		7.721	7.727	(1.002)	10790	0.31782	28.2843	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	9742	0.32877	29.2588
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.964)	3947	0.12985	11.5556
22 Benzo(a)pyrene	252	8.833	8.833	(0.994)	6416	0.22291	19.8384
24 Indeno(1,2,3-cd)pyrene	276	10.050	10.050	(1.131)	4155	0.15346	13.6570(M)
26 Benzo(g,h,i)perylene	276	10.392	10.397	(1.169)	6479	0.22875	20.3575(M)

QC Flag Legend

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

Data File: 1CC27018.D

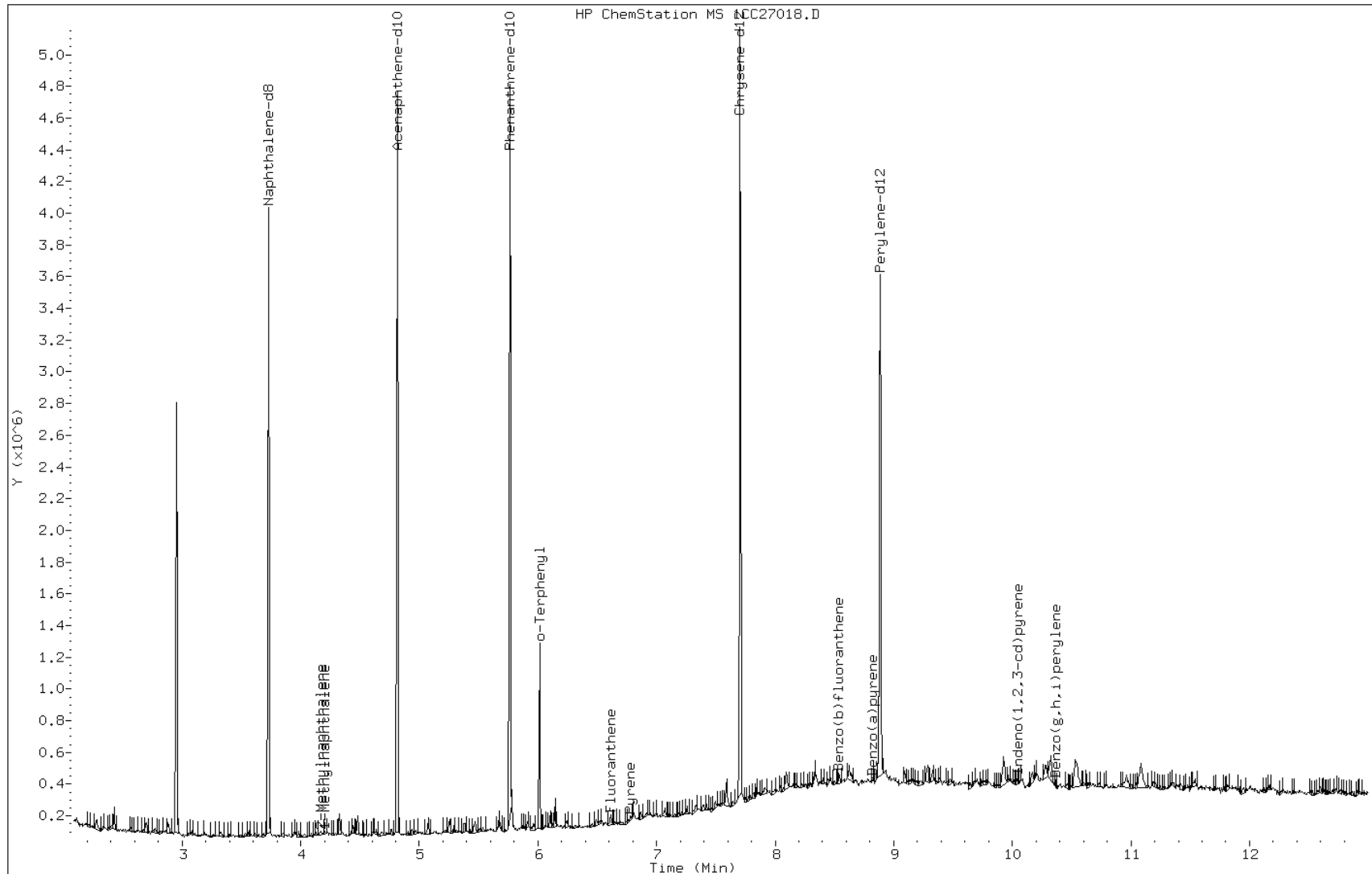
Date: 27-MAR-2013 15:24

Client ID: CV0763A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-25-a

Operator: SCC



Data File: 1CC27018.D

Date: 27-MAR-2013 15:24

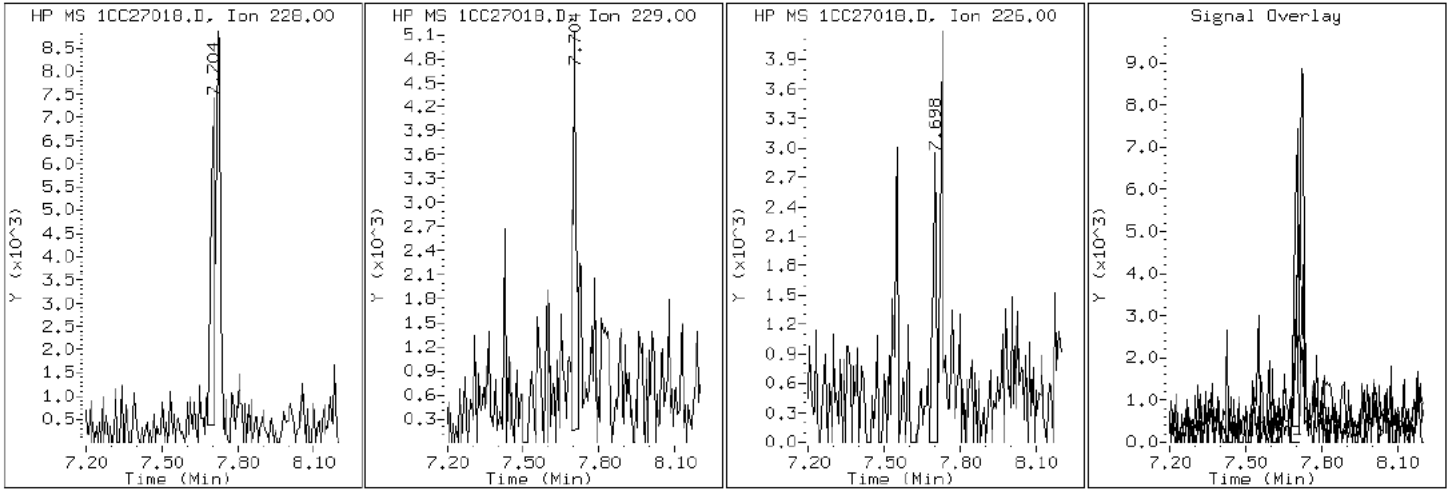
Client ID: CV0763A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-25-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC27018.D

Date: 27-MAR-2013 15:24

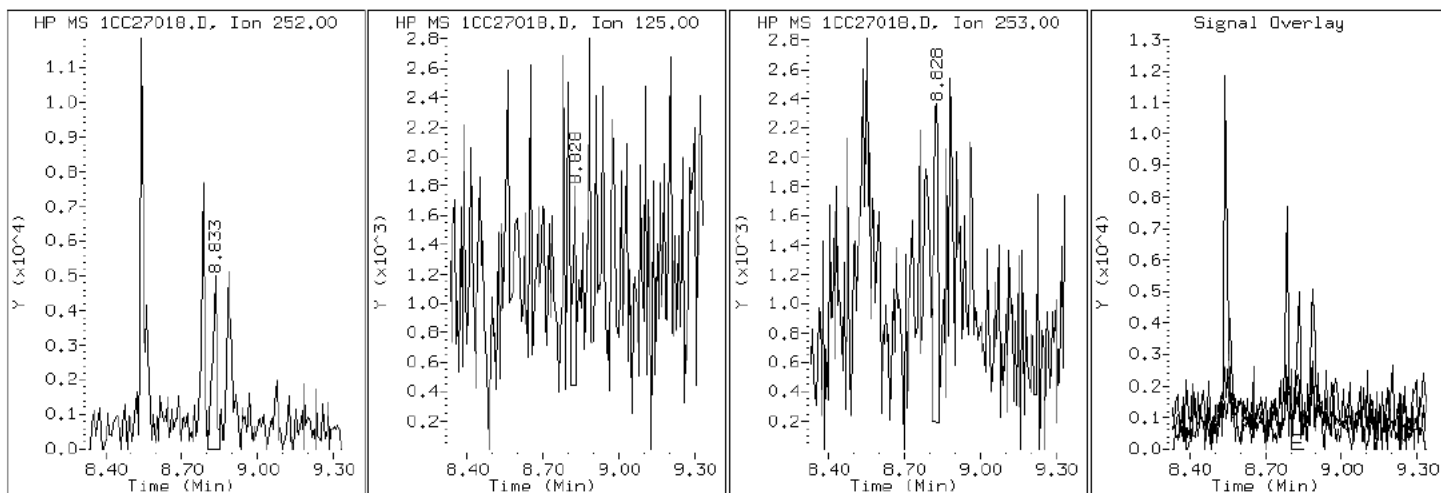
Client ID: CV0763A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-25-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC27018.D

Date: 27-MAR-2013 15:24

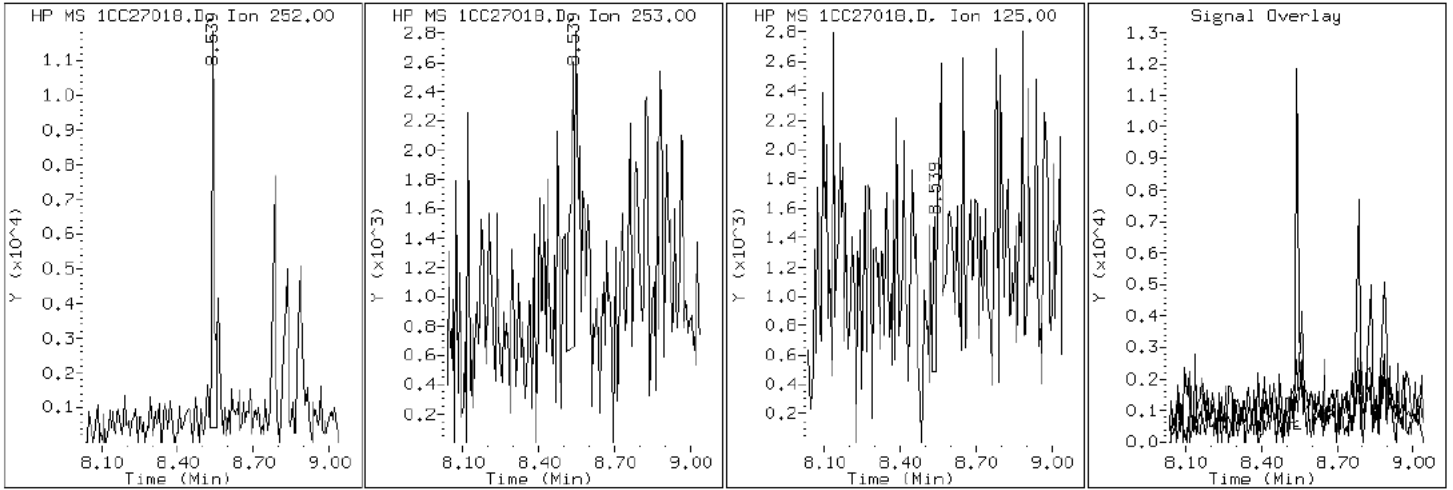
Client ID: CV0763A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-25-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC27018.D

Date: 27-MAR-2013 15:24

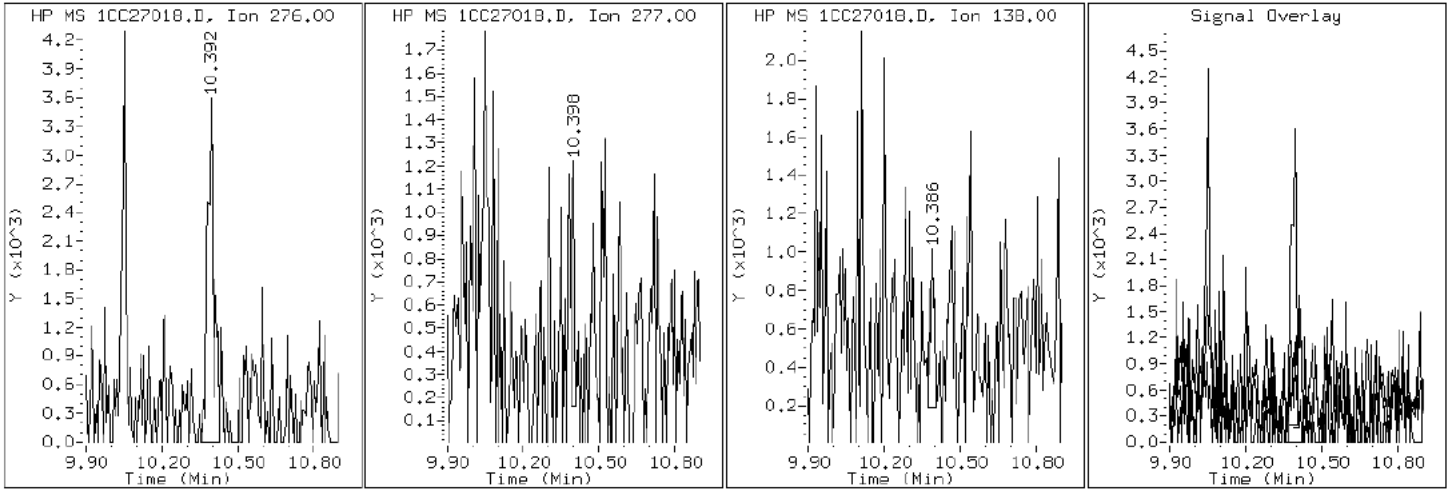
Client ID: CV0763A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-25-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC27018.D

Date: 27-MAR-2013 15:24

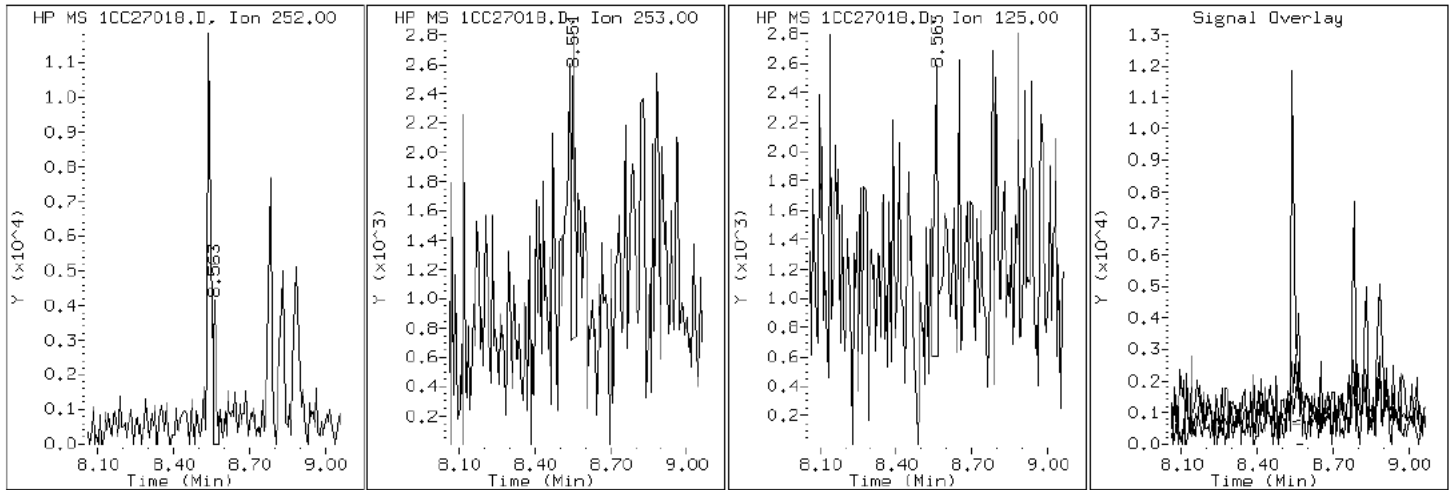
Client ID: CV0763A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-25-a

Operator: SCC

21 Benzo(k)fluoranthene





Data File: 1CC27018.D

Date: 27-MAR-2013 15:24

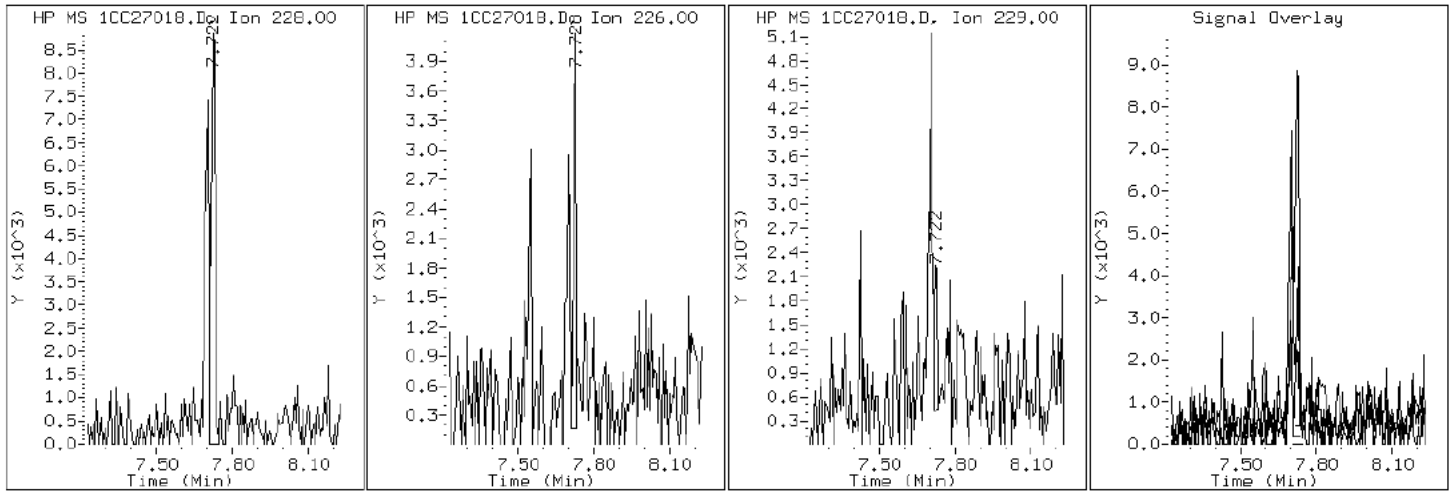
Client ID: CV0763A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-25-a

Operator: SCC

19 Chrysene



Data File: 1CC27018.D

Date: 27-MAR-2013 15:24

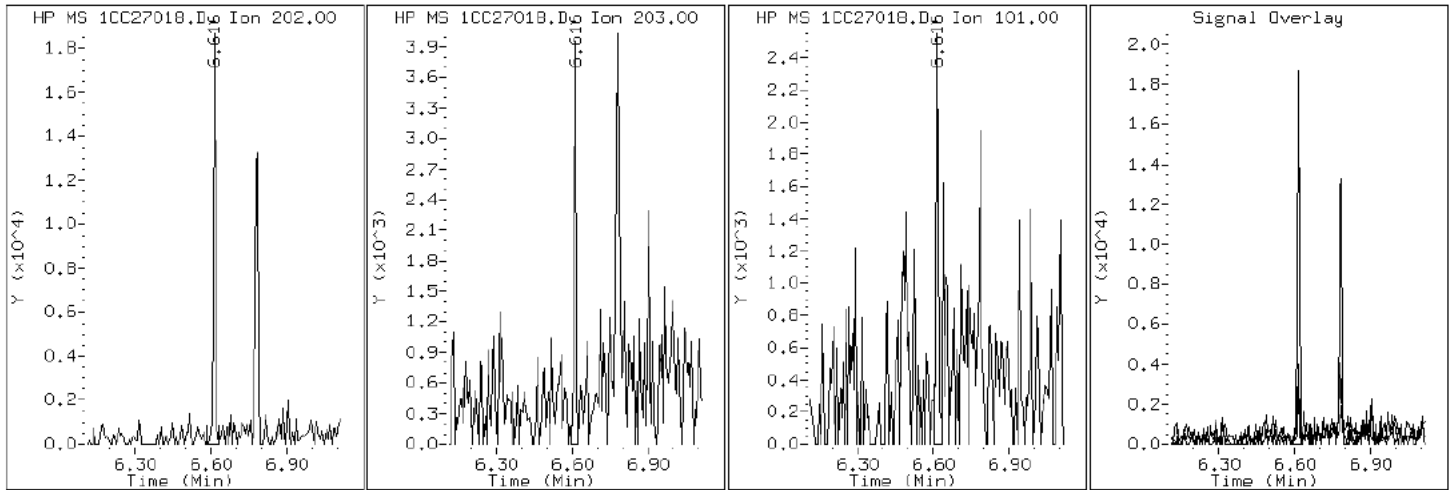
Client ID: CV0763A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-25-a

Operator: SCC

15 Fluoranthene



Data File: 1CC27018.D

Date: 27-MAR-2013 15:24

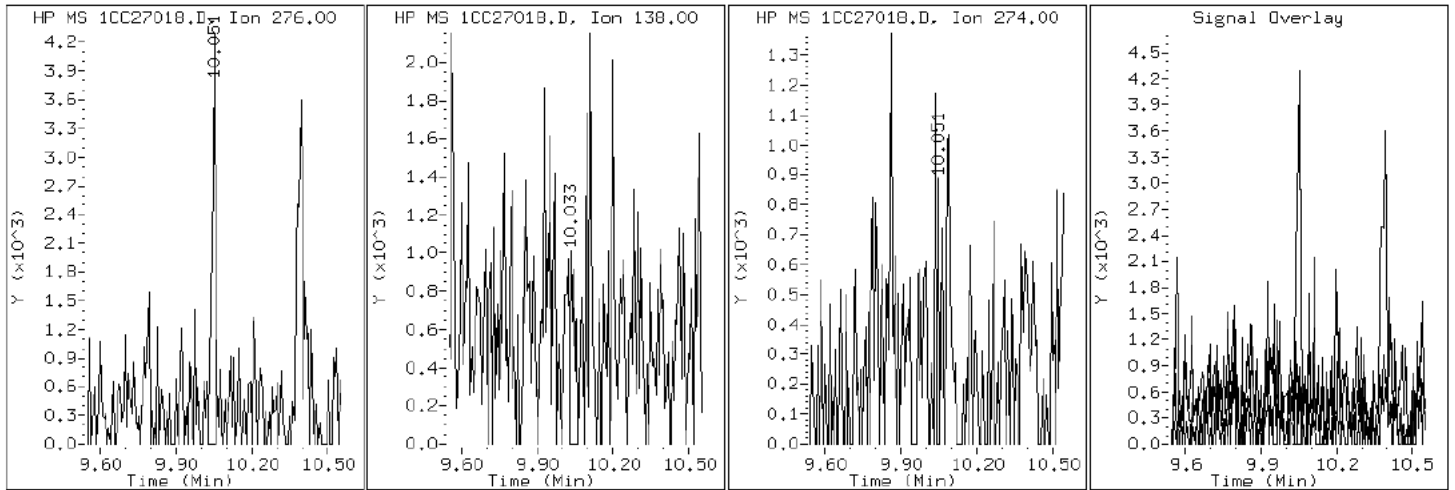
Client ID: CV0763A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-25-a

Operator: SCC

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



Data File: 1CC27018.D

Date: 27-MAR-2013 15:24

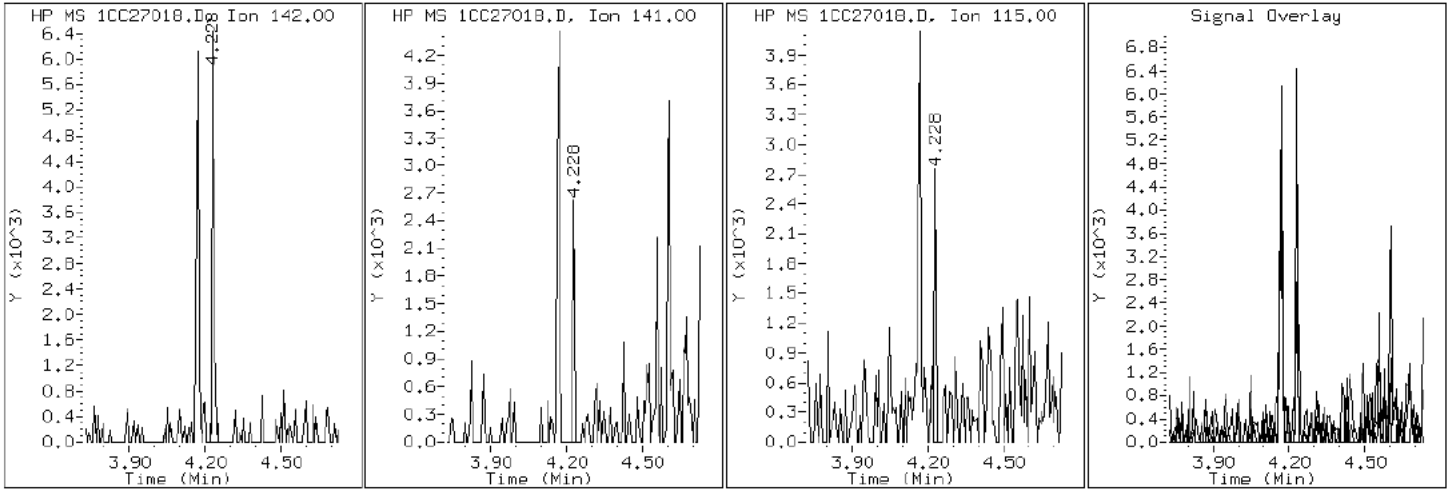
Client ID: CV0763A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-25-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC27018.D

Date: 27-MAR-2013 15:24

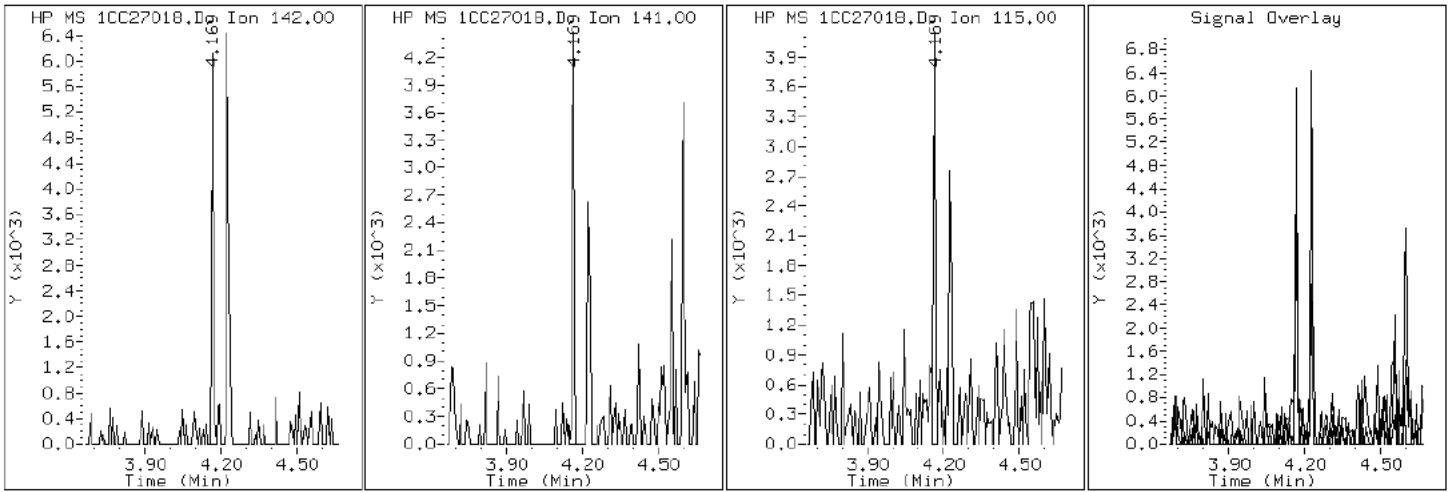
Client ID: CV0763A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-25-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC27018.D

Date: 27-MAR-2013 15:24

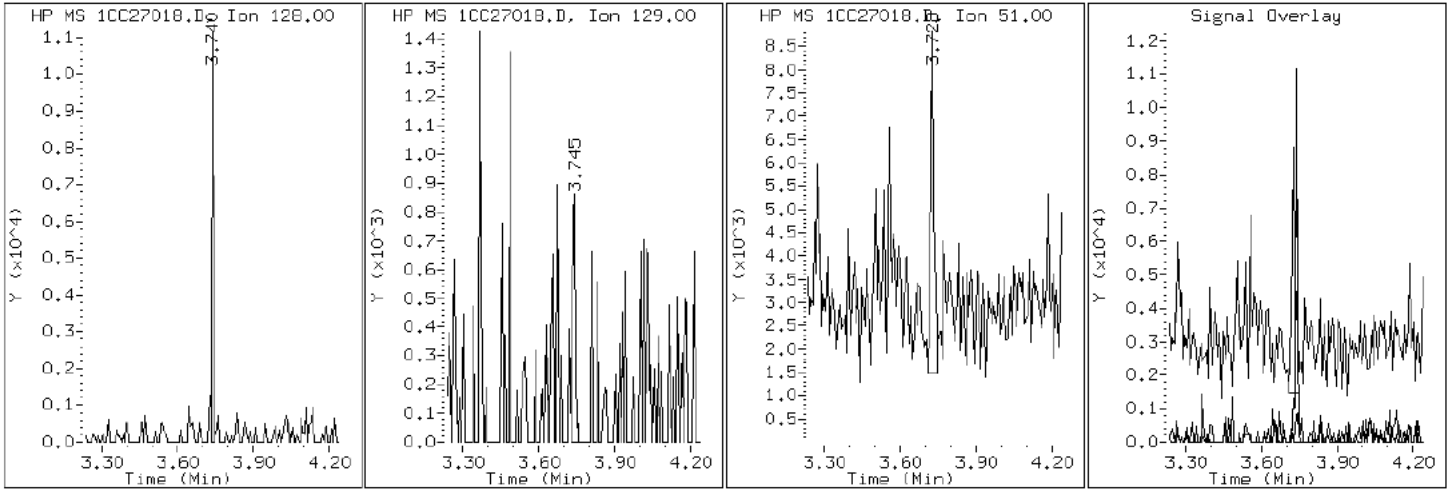
Client ID: CV0763A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-25-a

Operator: SCC

2 Naphthalene



Data File: 1CC27018.D

Date: 27-MAR-2013 15:24

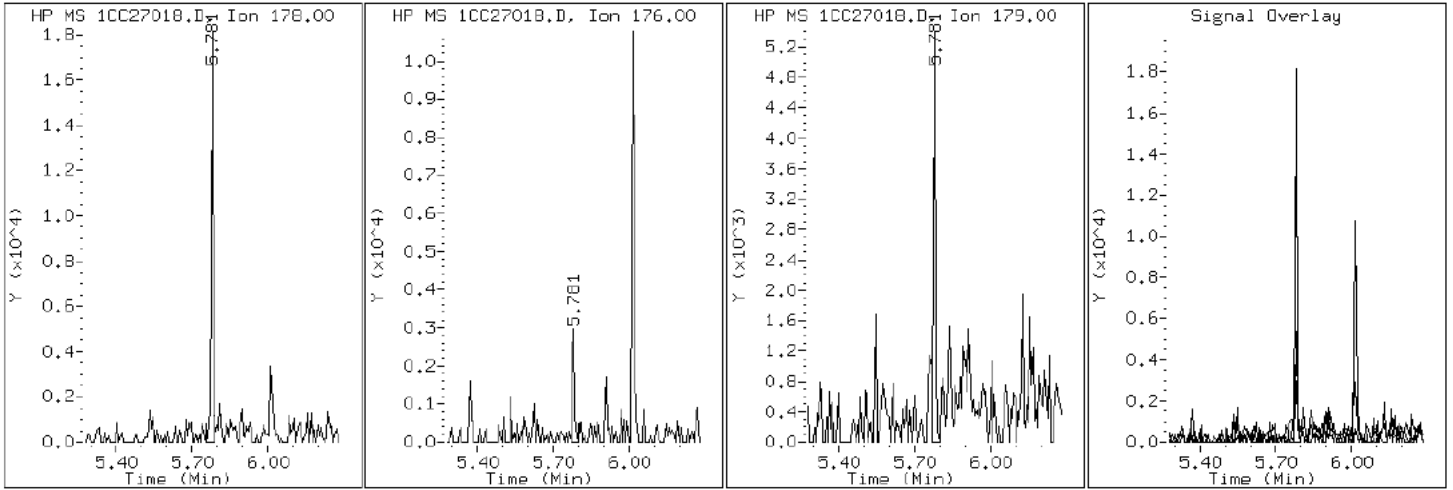
Client ID: CV0763A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-25-a

Operator: SCC

11 Phenanthrene



Data File: 1CC27018.D

Date: 27-MAR-2013 15:24

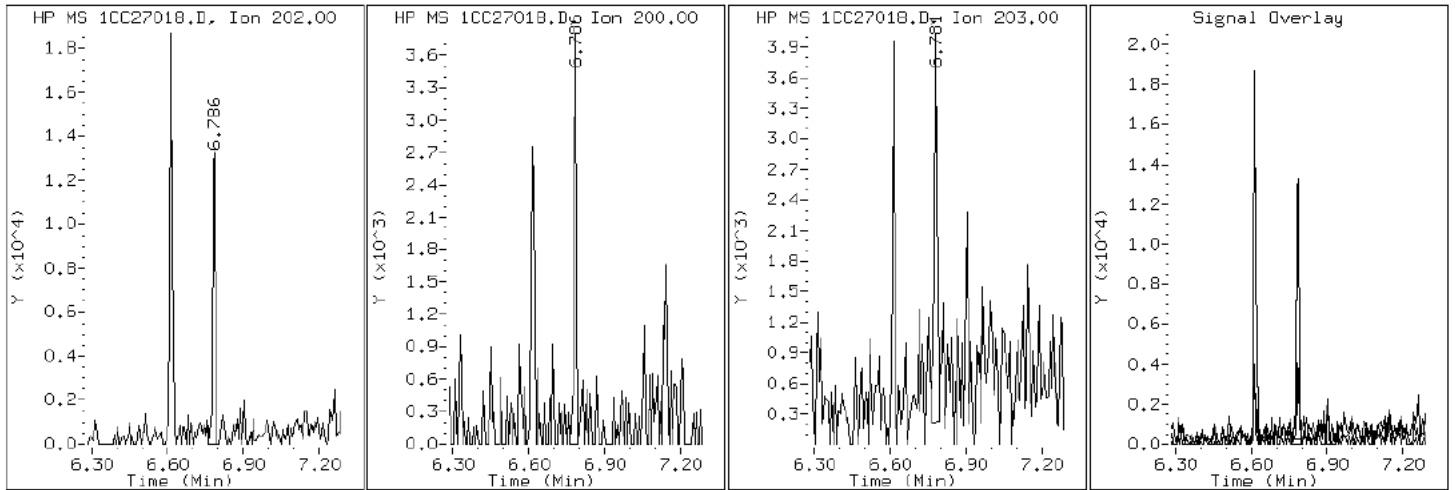
Client ID: CV0763A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-25-a

Operator: SCC

16 Pyrene



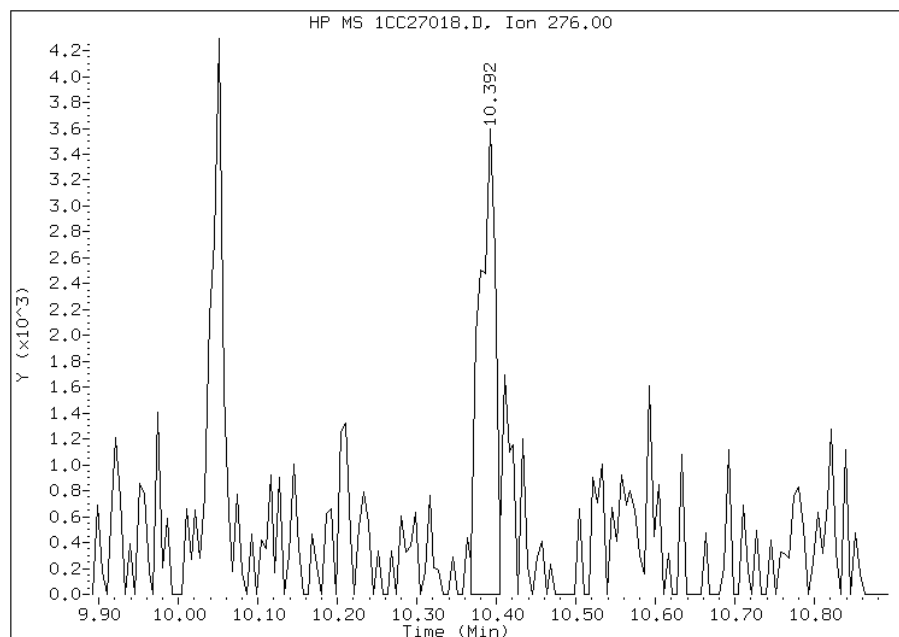


# Manual Integration Report

Data File: 1CC27018.D  
Inj. Date and Time: 27-MAR-2013 15:24  
Instrument ID: BSMC5973.i  
Client ID: CV0763A-CS-SP  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/01/2013

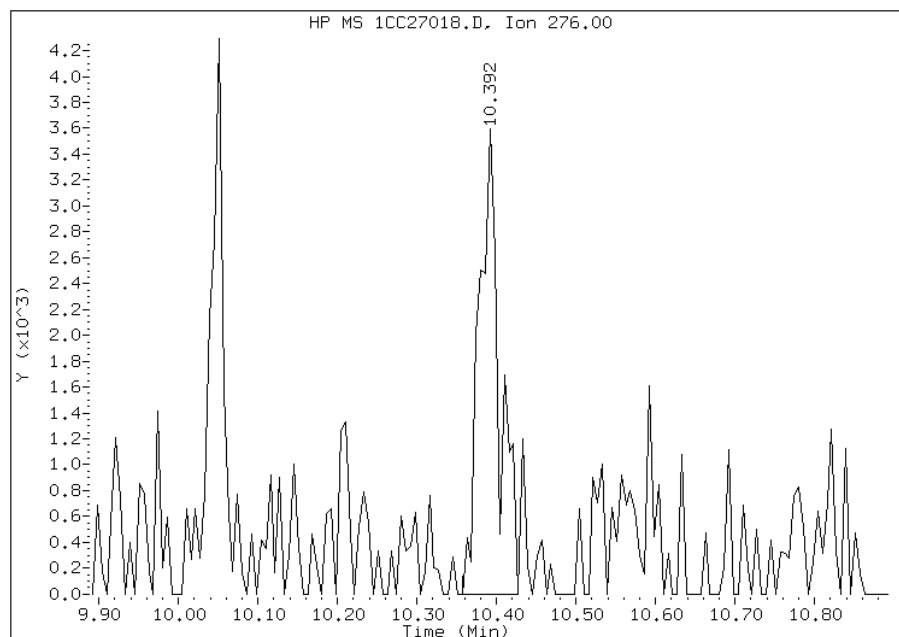
## Processing Integration Results

RT: 10.39  
Response: 4918  
Amount: 0  
Conc: 15



## Manual Integration Results

RT: 10.39  
Response: 6479  
Amount: 0  
Conc: 20



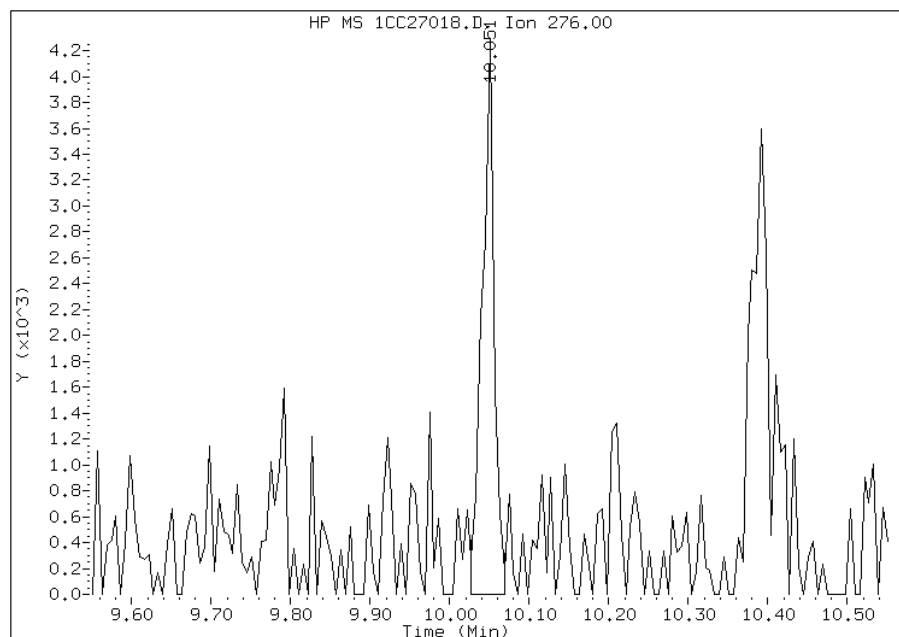
Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:21  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CC27018.D  
Inj. Date and Time: 27-MAR-2013 15:24  
Instrument ID: BSMC5973.i  
Client ID: CV0763A-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/01/2013

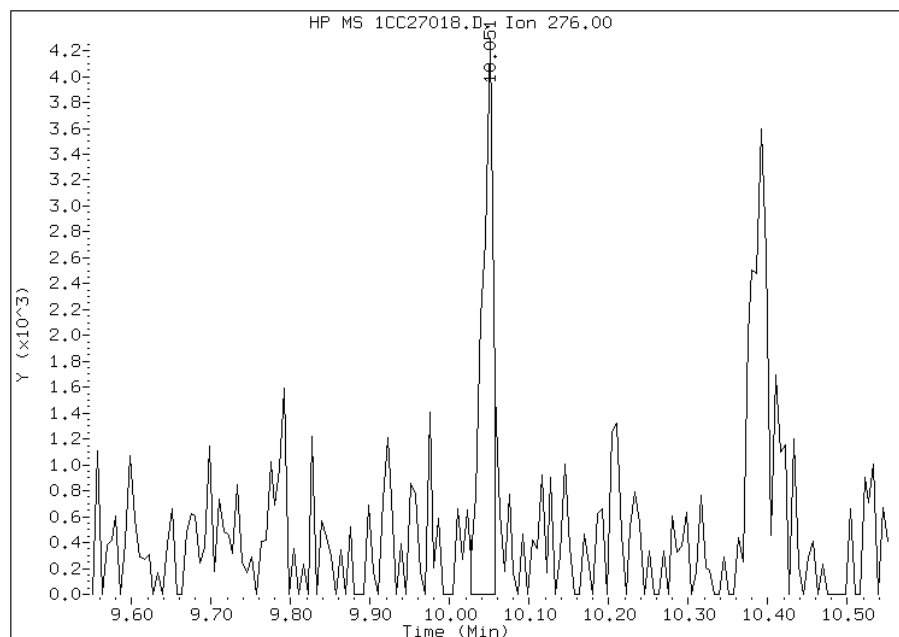
## Processing Integration Results

RT: 10.05  
Response: 4439  
Amount: 0  
Conc: 15



## Manual Integration Results

RT: 10.05  
Response: 4155  
Amount: 0  
Conc: 14



Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:21  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Client Sample ID: CV0763B-CS-SP Lab Sample ID: 680-88592-26  
 Matrix: Solid Lab File ID: 1CC27019.D  
 Analysis Method: 8270C LL Date Collected: 03/20/2013 14:15  
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07  
 Sample wt/vol: 15.16(g) Date Analyzed: 03/27/2013 15:42  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 28.2 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	41	J	55	6.9
120-12-7	Anthracene	62		12	5.8
56-55-3	Benzo[a]anthracene	250		11	5.4
50-32-8	Benzo[a]pyrene	230		14	7.2
205-99-2	Benzo[b]fluoranthene	390		17	8.4
191-24-2	Benzo[g,h,i]perylene	190		28	6.1
207-08-9	Benzo[k]fluoranthene	140		11	5.0
218-01-9	Chrysene	300		12	6.2
53-70-3	Dibenz(a,h)anthracene	51		28	5.7
206-44-0	Fluoranthene	520		28	5.5
86-73-7	Fluorene	22	J	28	5.7
193-39-5	Indeno[1,2,3-cd]pyrene	140		28	9.8
90-12-0	1-Methylnaphthalene	73		55	6.1
91-57-6	2-Methylnaphthalene	110		55	9.8
91-20-3	Naphthalene	120		55	6.1
85-01-8	Phenanthrene	440		11	5.4
129-00-0	Pyrene	460		28	5.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	71		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27019.D  
 Lab Smp Id: 680-88592-A-26-A Client Smp ID: CV0763B-CS-SP  
 Inj Date : 27-MAR-2013 15:42  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88592-a-26-a  
 Misc Info : 680-88592-A-26-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m  
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	15.160	Weight Extracted
M	28.243	% 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		3.727	3.727	(1.000)	738360	40.0000		
* 6 Acenaphthene-d10	164		4.815	4.815	(1.000)	583233	40.0000		
* 10 Phenanthrene-d10	188		5.762	5.762	(1.000)	1053102	40.0000		
\$ 14 o-Terphenyl	230		6.015	6.015	(1.044)	112905	7.10092	652.7537	
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1182817	40.0000		
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1147851	40.0000		
2 Naphthalene	128		3.739	3.739	(1.003)	24820	1.29121	118.6946	
3 2-Methylnaphthalene	142		4.168	4.168	(1.118)	15984	1.24660	114.5935	
4 1-Methylnaphthalene	142		4.227	4.227	(1.134)	9247	0.79184	72.7899	
5 Acenaphthylene	152		4.727	4.727	(0.982)	10592	0.45045	41.4079	
9 Fluorene	166		5.157	5.157	(1.071)	4491	0.24297	22.3350	
11 Phenanthrene	178		5.780	5.780	(1.003)	146291	4.80414	441.6211	
12 Anthracene	178		5.815	5.815	(1.009)	20135	0.67610	62.1509	
13 Carbazole	167		5.921	5.921	(1.028)	14344	0.54183	49.8079	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
15 Fluoranthene	202	6.615	6.615	(1.148)	188740	5.65978	520.2763
16 Pyrene	202	6.786	6.786	(0.881)	157901	4.96755	456.6428
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	91182	2.67095	245.5278
19 Chrysene	228	7.727	7.727	(1.003)	112525	3.29367	302.7711
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	125690	4.19000	385.1665(M)
21 Benzo(k)fluoranthene	252	8.556	8.562	(0.963)	45335	1.47321	135.4253(M)
22 Benzo(a)pyrene	252	8.833	8.833	(0.994)	72548	2.48985	228.8798
24 Indeno(1,2,3-cd)pyrene	276	10.050	10.050	(1.131)	40402	1.47398	135.4958(M)
25 Dibenzo(a,h)anthracene	278	10.062	10.068	(1.132)	14841	0.55354	50.8844(M)
26 Benzo(g,h,i)perylene	276	10.397	10.397	(1.170)	59478	2.07433	190.6834

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC27019.D

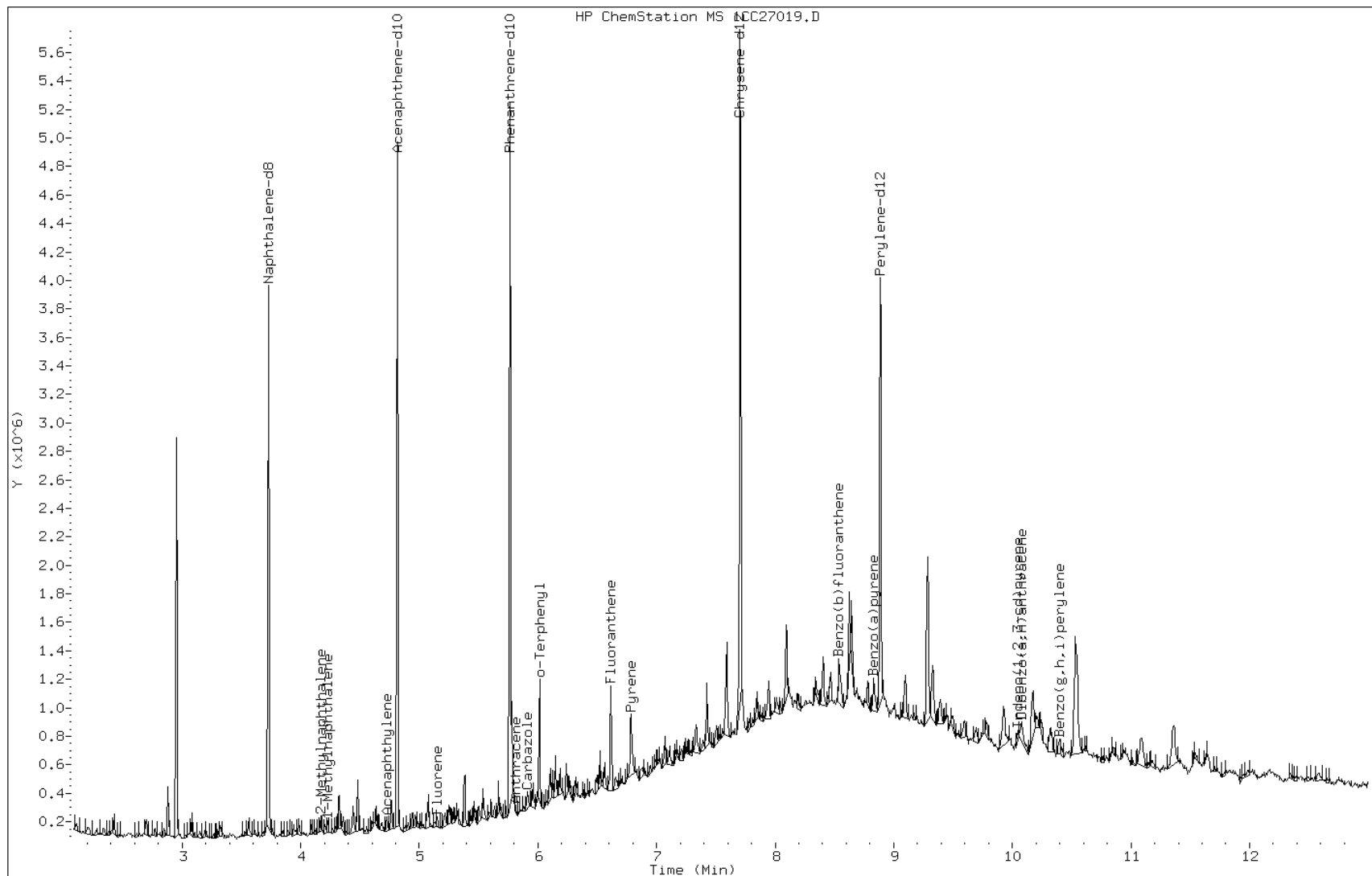
Date: 27-MAR-2013 15:42

Client ID: CV0763B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-26-a

Operator: SCC



Data File: 1CC27019.D

Date: 27-MAR-2013 15:42

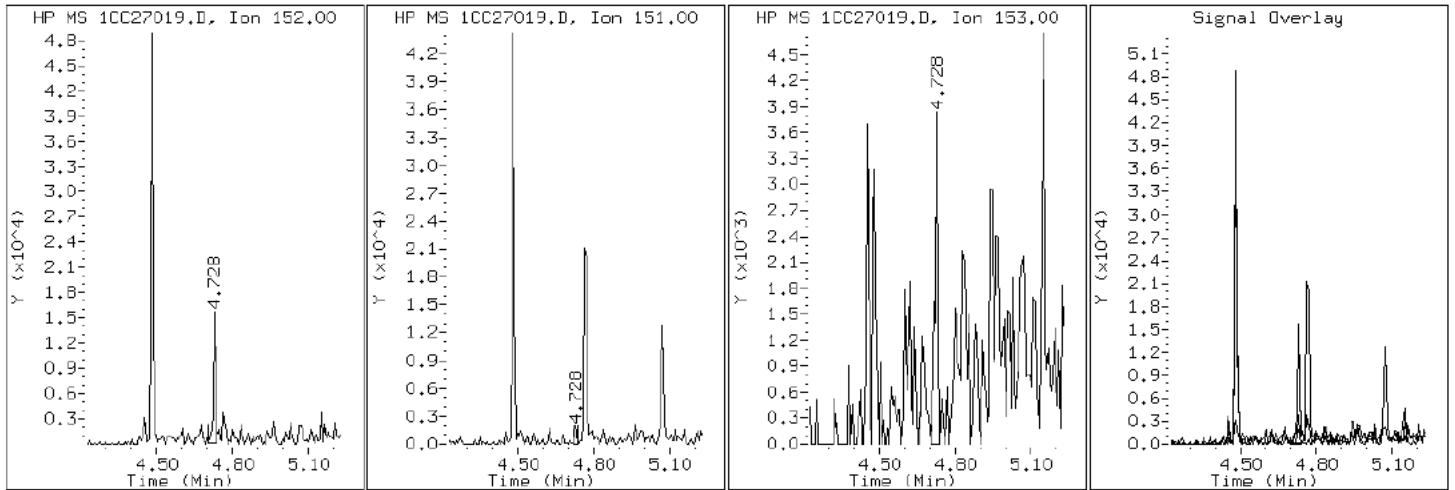
Client ID: CV0763B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-26-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC27019.D

Date: 27-MAR-2013 15:42

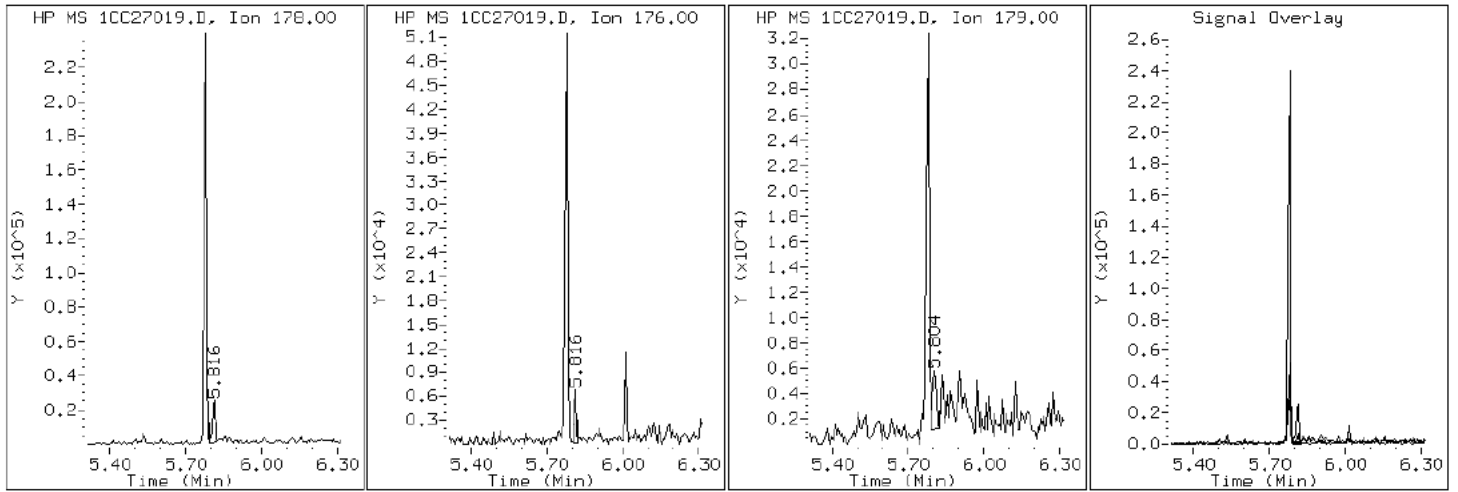
Client ID: CV0763B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-26-a

Operator: SCC

12 Anthracene





Data File: 1CC27019.D

Date: 27-MAR-2013 15:42

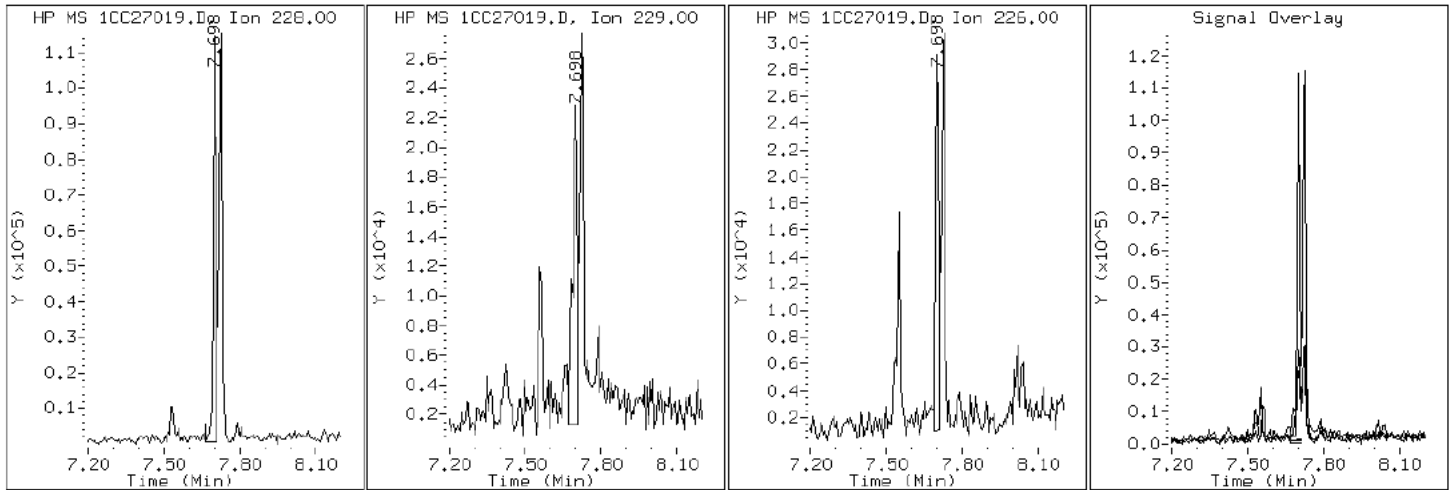
Client ID: CV0763B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-26-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC27019.D

Date: 27-MAR-2013 15:42

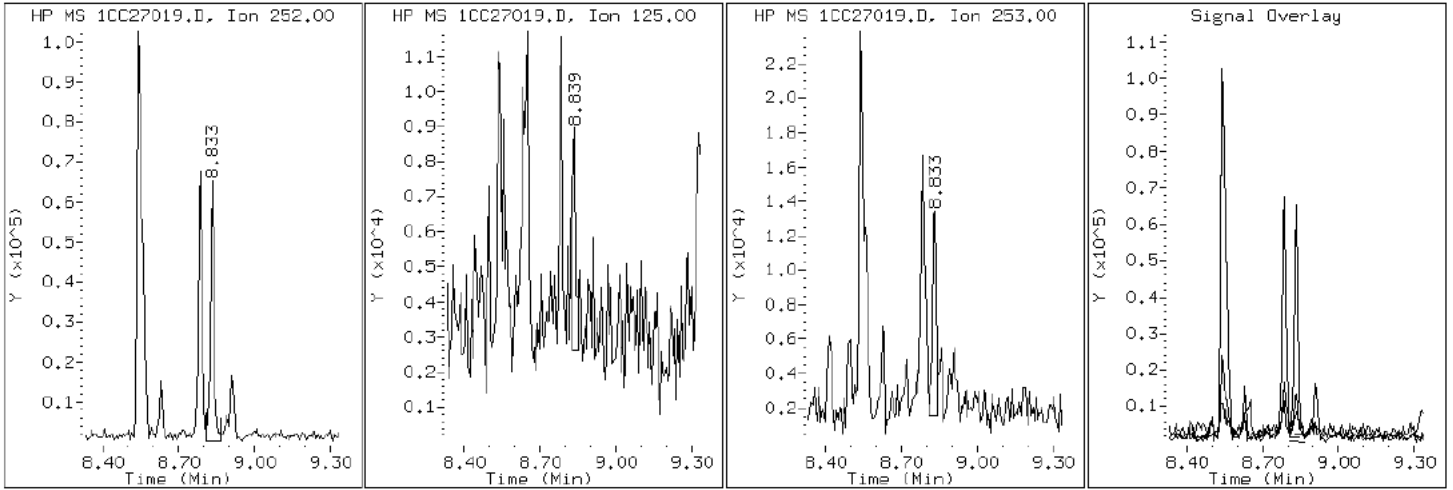
Client ID: CV0763B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-26-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC27019.D

Date: 27-MAR-2013 15:42

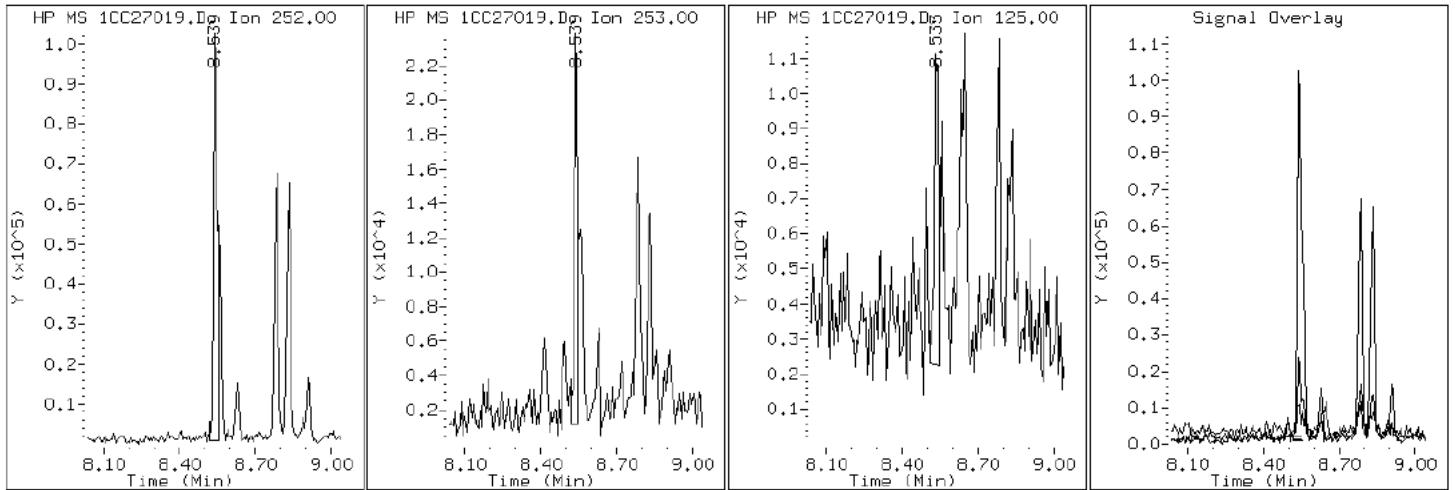
Client ID: CV0763B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-26-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC27019.D

Date: 27-MAR-2013 15:42

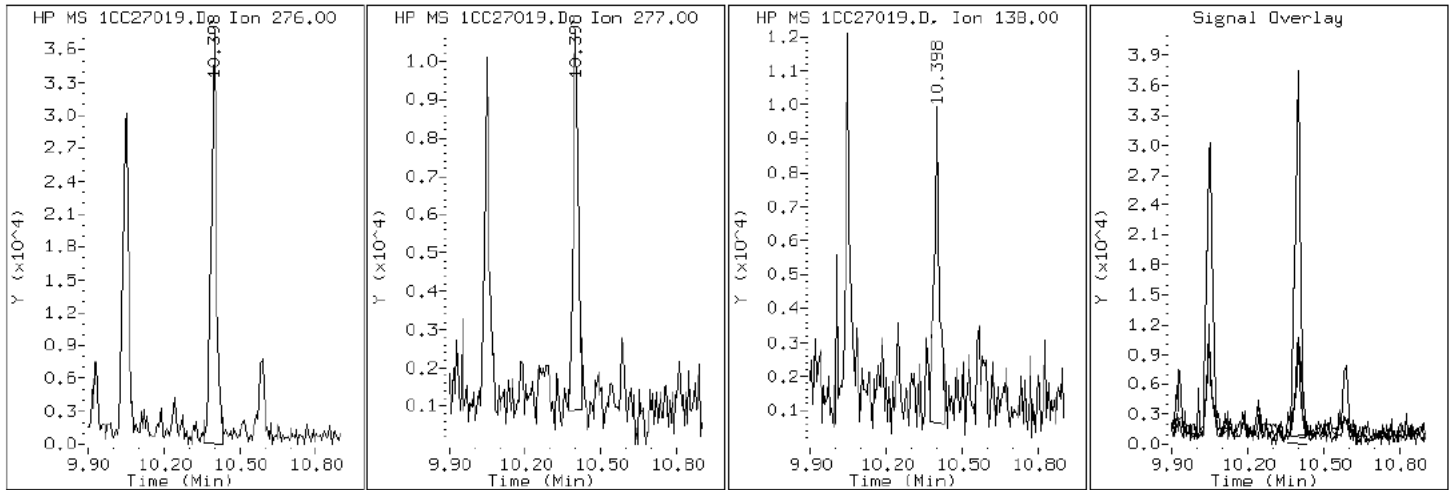
Client ID: CV0763B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-26-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC27019.D

Date: 27-MAR-2013 15:42

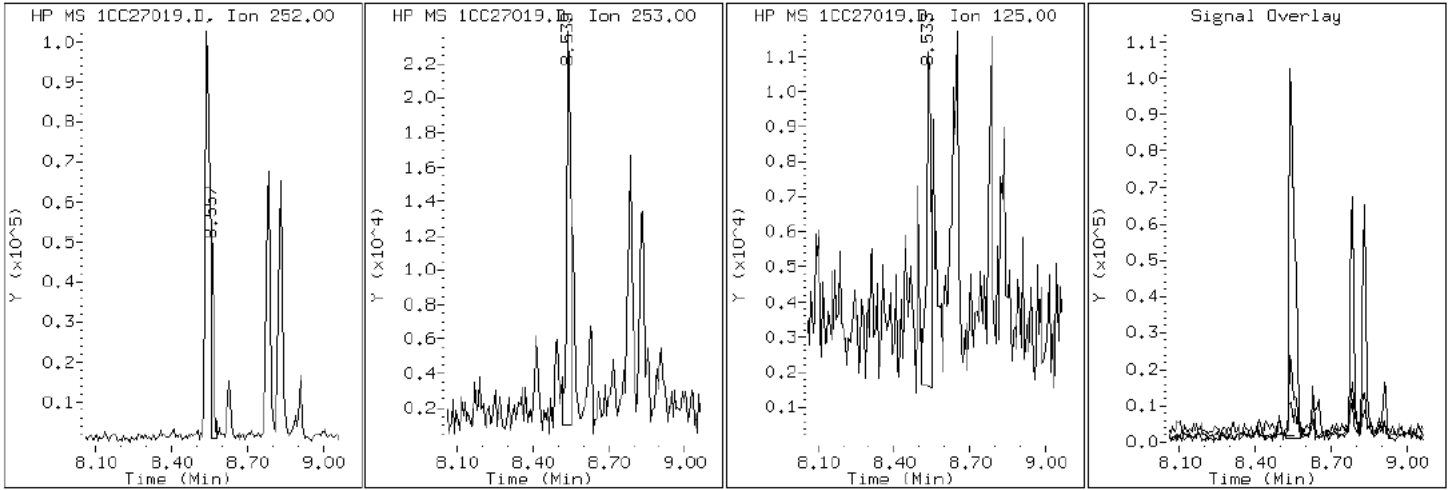
Client ID: CV0763B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-26-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC27019.D

Date: 27-MAR-2013 15:42

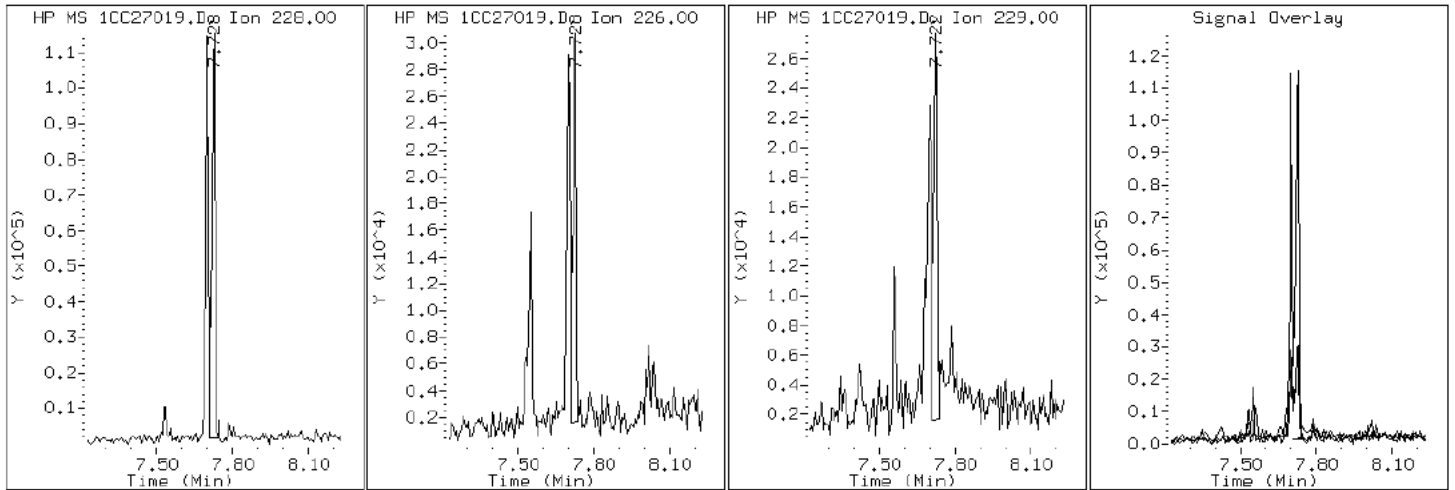
Client ID: CV0763B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-26-a

Operator: SCC

19 Chrysene



Data File: 1CC27019.D

Date: 27-MAR-2013 15:42

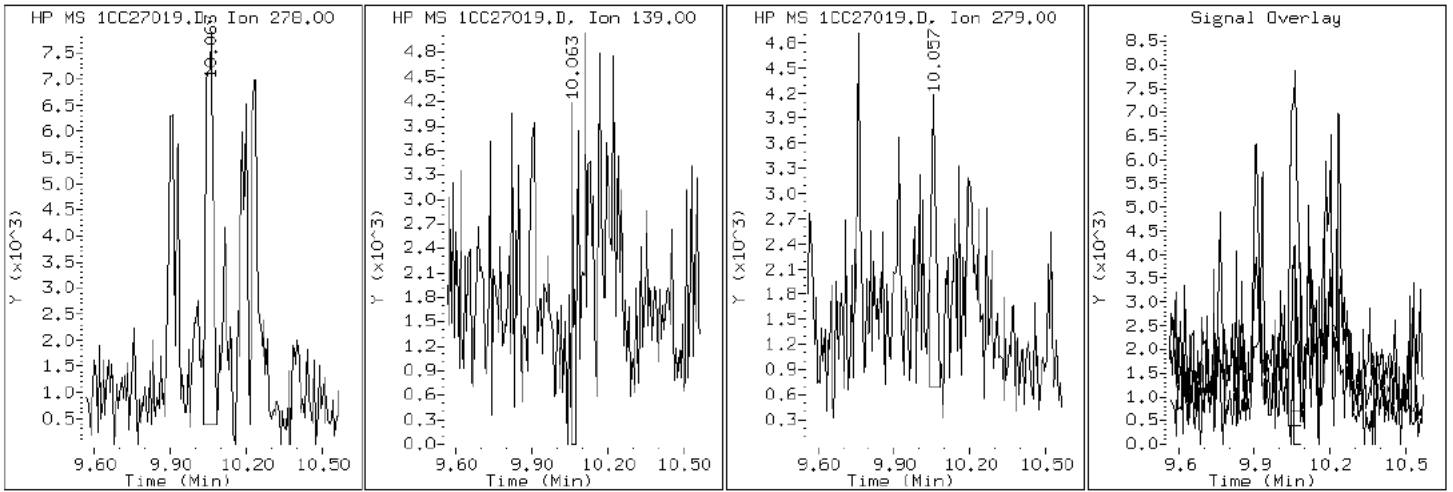
Client ID: CV0763B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-26-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC27019.D

Date: 27-MAR-2013 15:42

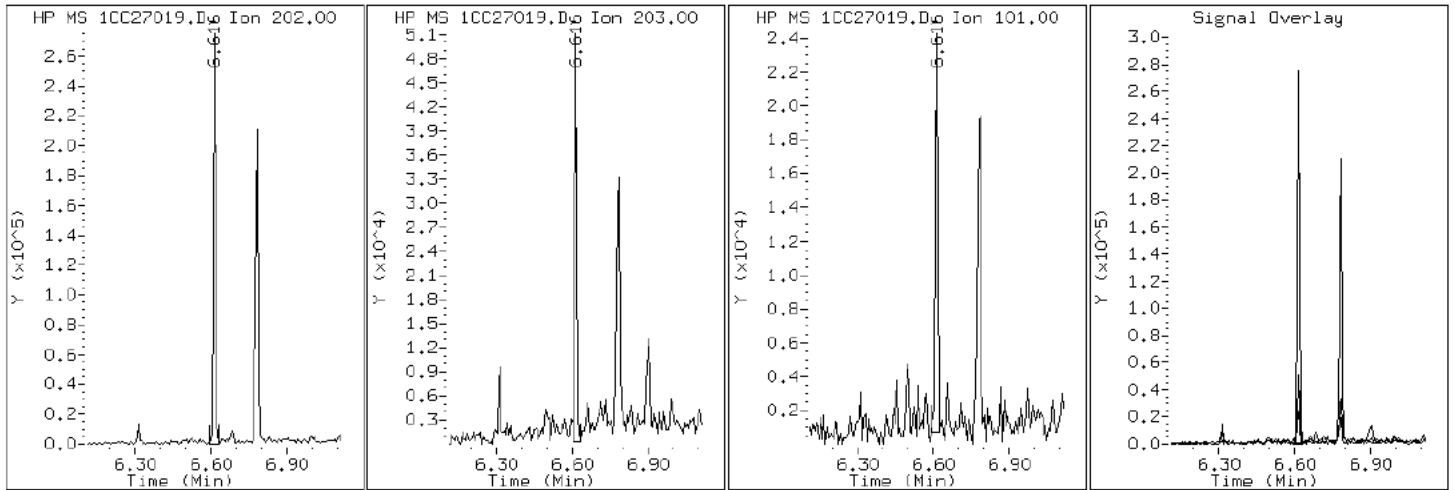
Client ID: CV0763B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-26-a

Operator: SCC

15 Fluoranthene





Data File: 1CC27019.D

Date: 27-MAR-2013 15:42

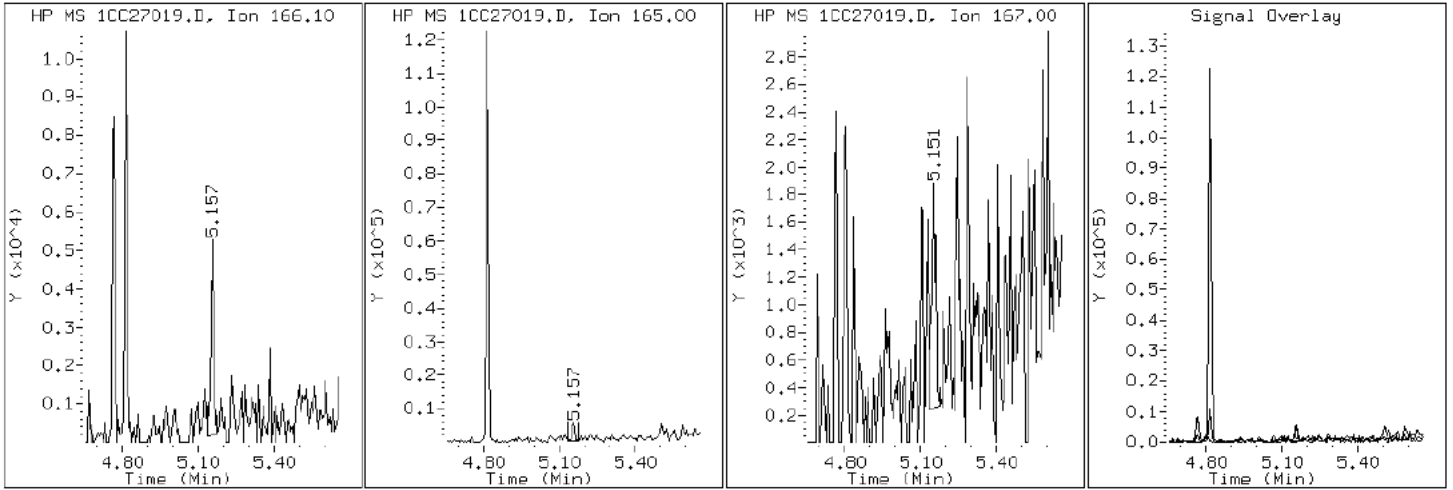
Client ID: CV0763B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-26-a

Operator: SCC

9 Fluorene



Data File: 1CC27019.D

Date: 27-MAR-2013 15:42

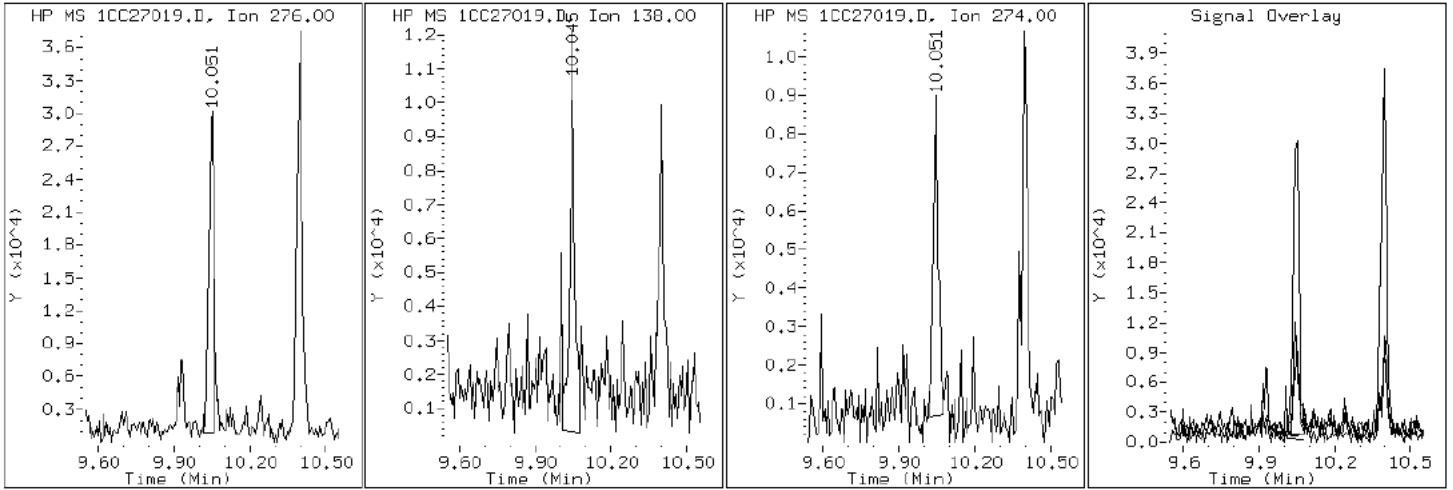
Client ID: CV0763B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-26-a

Operator: SCC

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



Data File: 1CC27019.D

Date: 27-MAR-2013 15:42

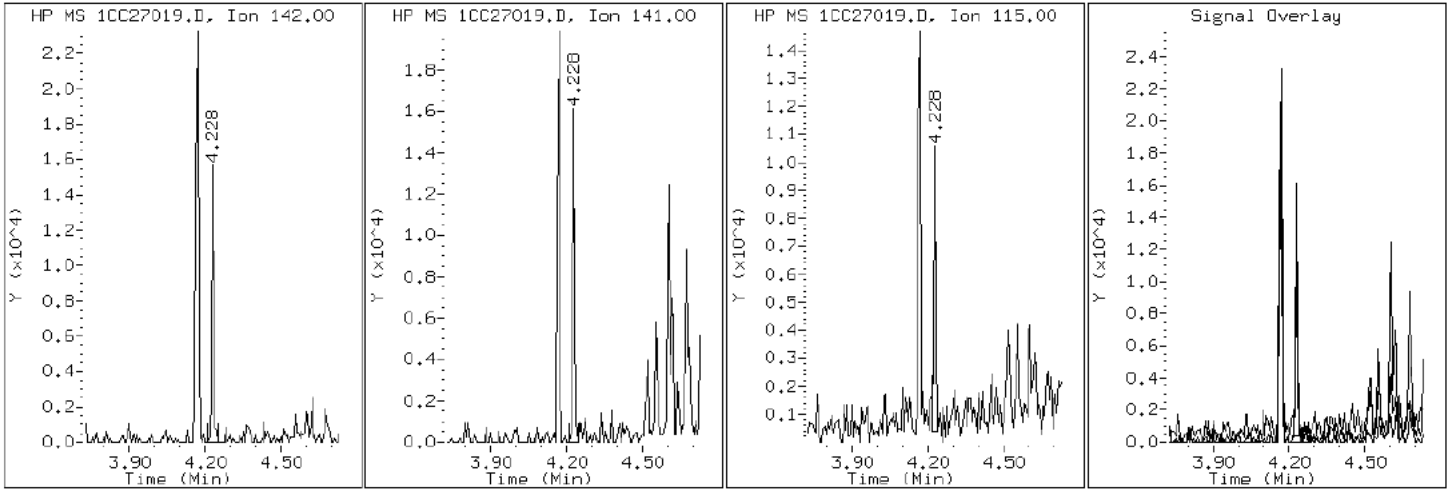
Client ID: CV0763B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-26-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC27019.D

Date: 27-MAR-2013 15:42

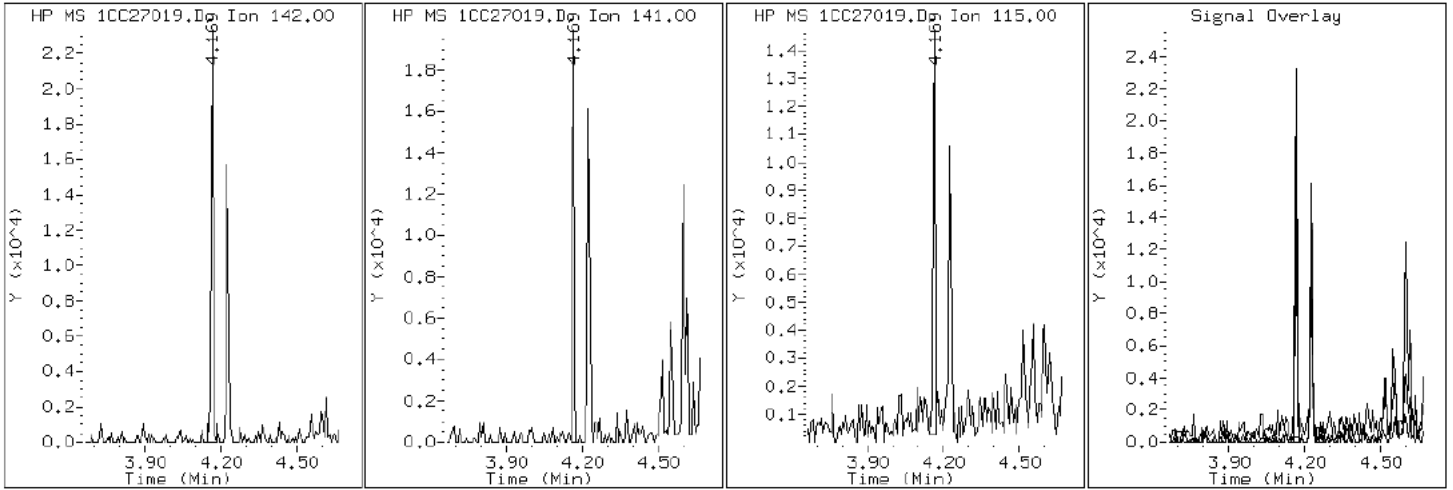
Client ID: CV0763B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-26-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC27019.D

Date: 27-MAR-2013 15:42

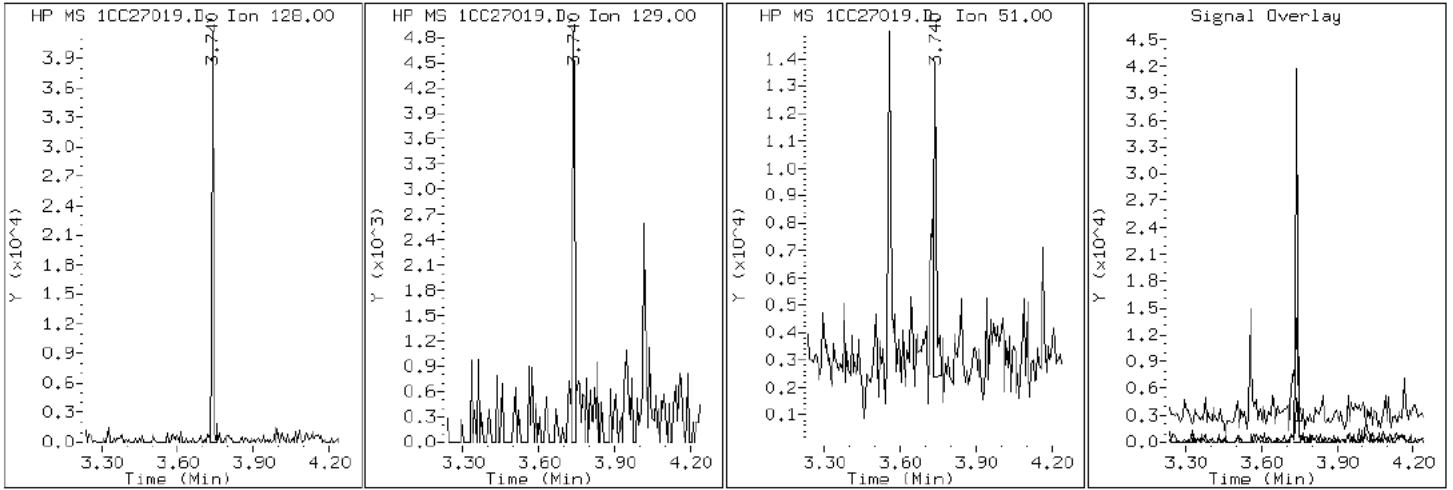
Client ID: CV0763B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-26-a

Operator: SCC

2 Naphthalene



Data File: 1CC27019.D

Date: 27-MAR-2013 15:42

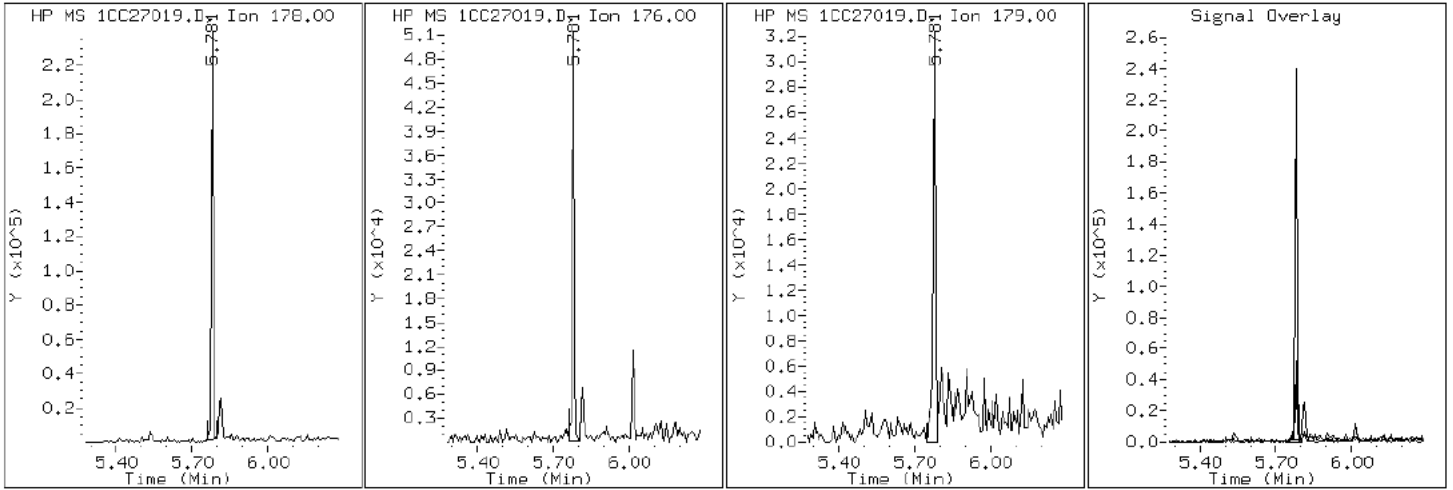
Client ID: CV0763B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-26-a

Operator: SCC

11 Phenanthrene



Data File: 1CC27019.D

Date: 27-MAR-2013 15:42

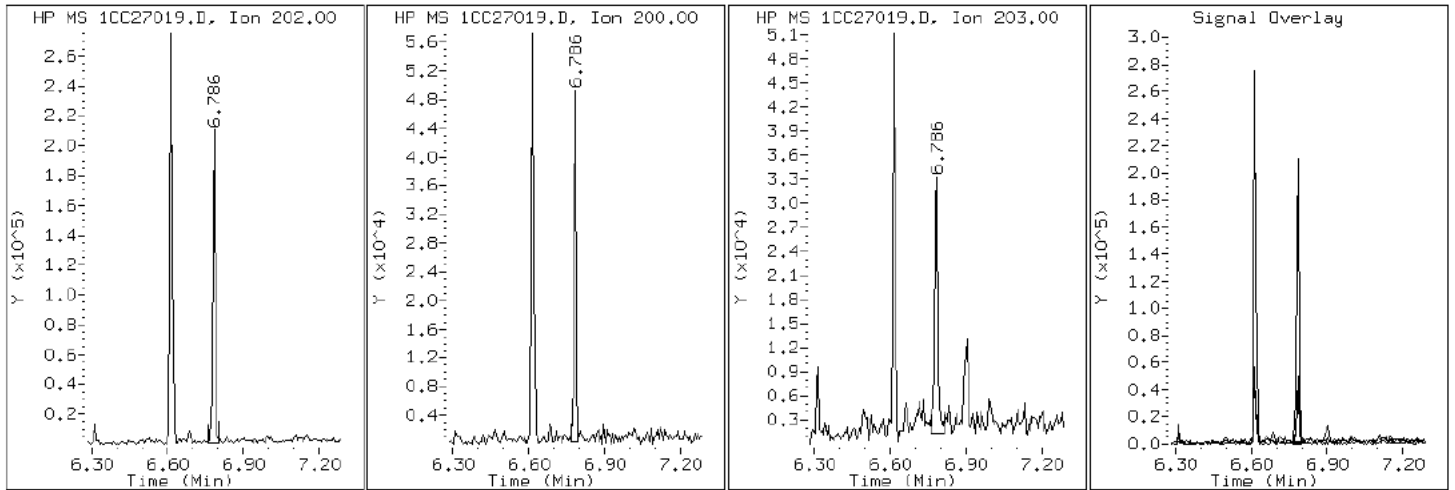
Client ID: CV0763B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-26-a

Operator: SCC

16 Pyrene

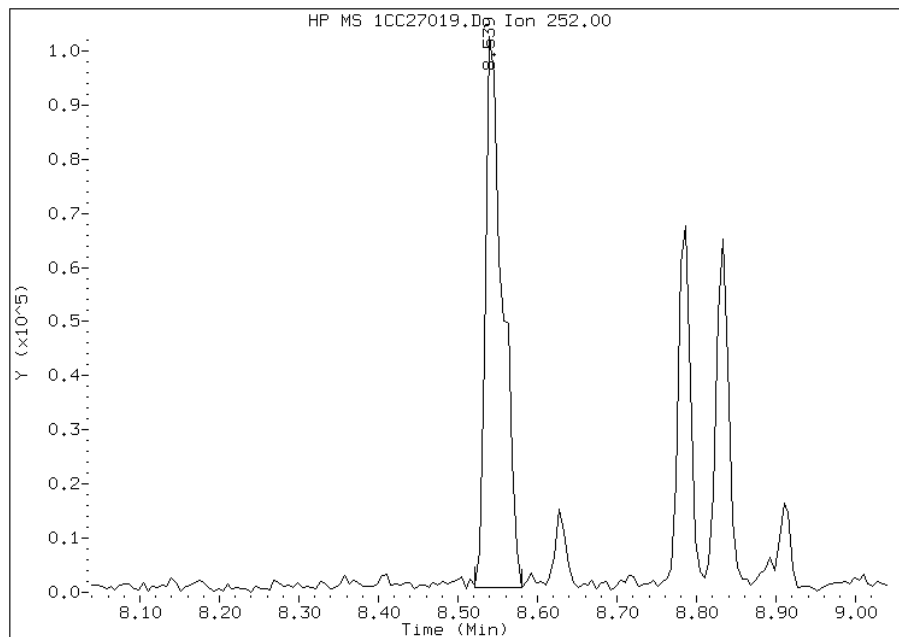


# Manual Integration Report

Data File: 1CC27019.D  
Inj. Date and Time: 27-MAR-2013 15:42  
Instrument ID: BSMC5973.i  
Client ID: CV0763B-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/01/2013

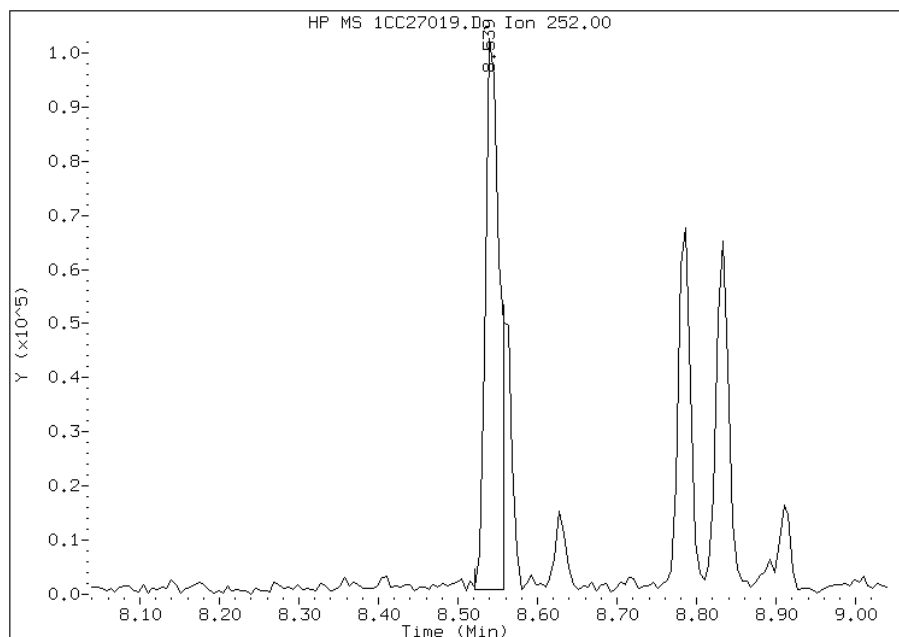
## Processing Integration Results

RT: 8.54  
Response: 153534  
Amount: 5  
Conc: 470



## Manual Integration Results

RT: 8.54  
Response: 125690  
Amount: 4  
Conc: 385



Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:22  
Manual Integration Reason: Split Peak

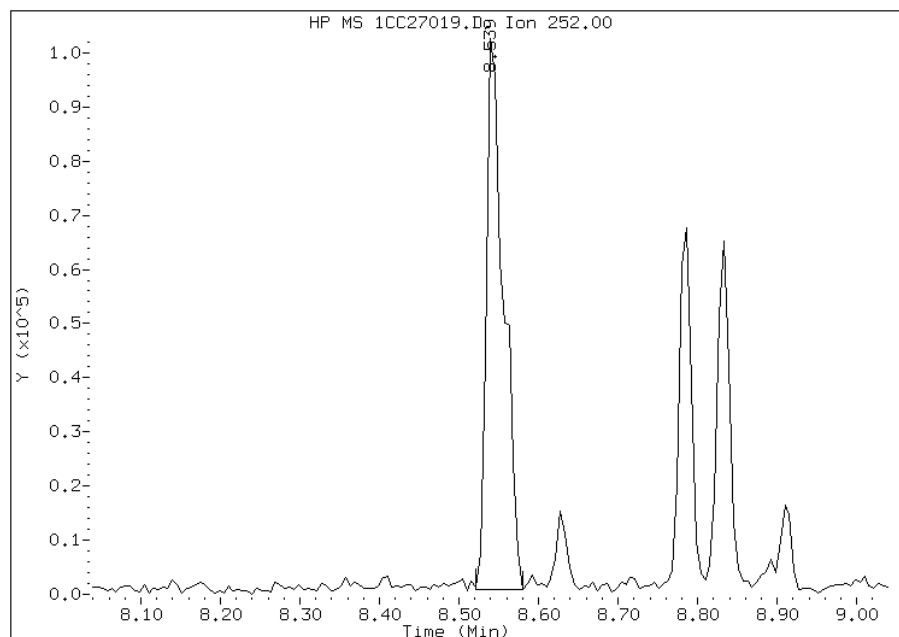


# Manual Integration Report

Data File: 1CC27019.D  
Inj. Date and Time: 27-MAR-2013 15:42  
Instrument ID: BSMC5973.i  
Client ID: CV0763B-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/01/2013

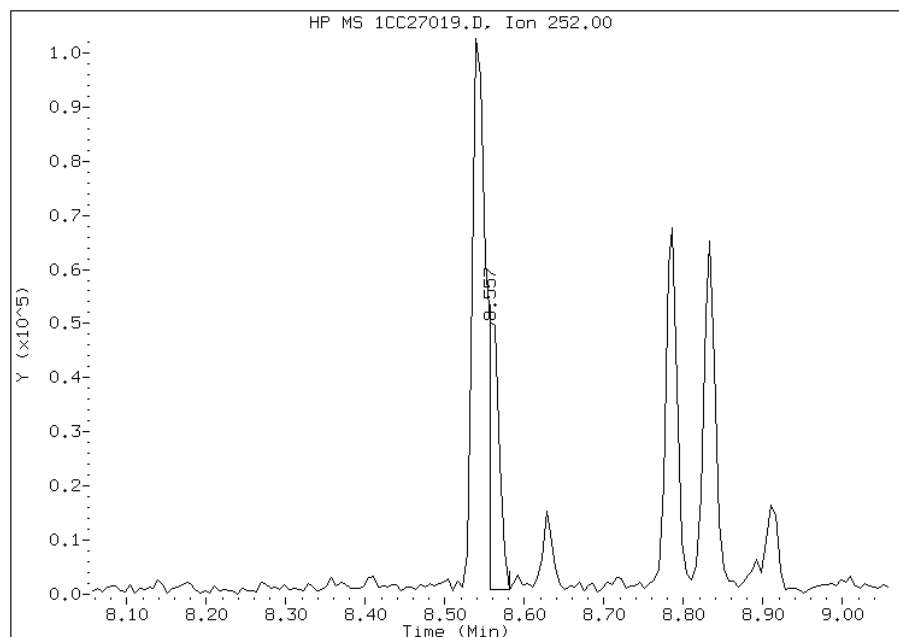
## Processing Integration Results

RT: 8.54  
Response: 153530  
Amount: 5  
Conc: 459



## Manual Integration Results

RT: 8.56  
Response: 45335  
Amount: 1  
Conc: 135



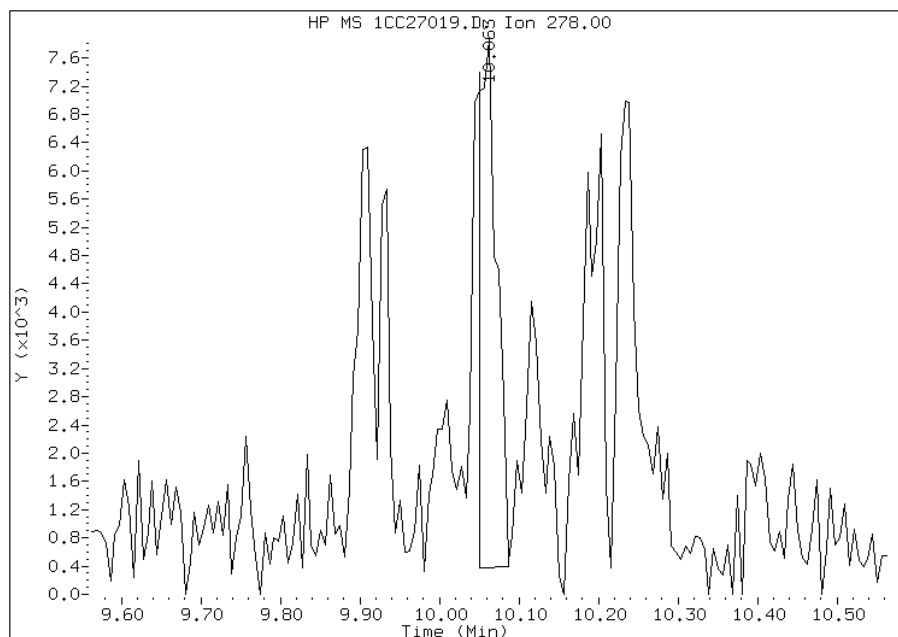
Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:22  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CC27019.D  
Inj. Date and Time: 27-MAR-2013 15:42  
Instrument ID: BSMC5973.i  
Client ID: CV0763B-CS-SP  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/01/2013

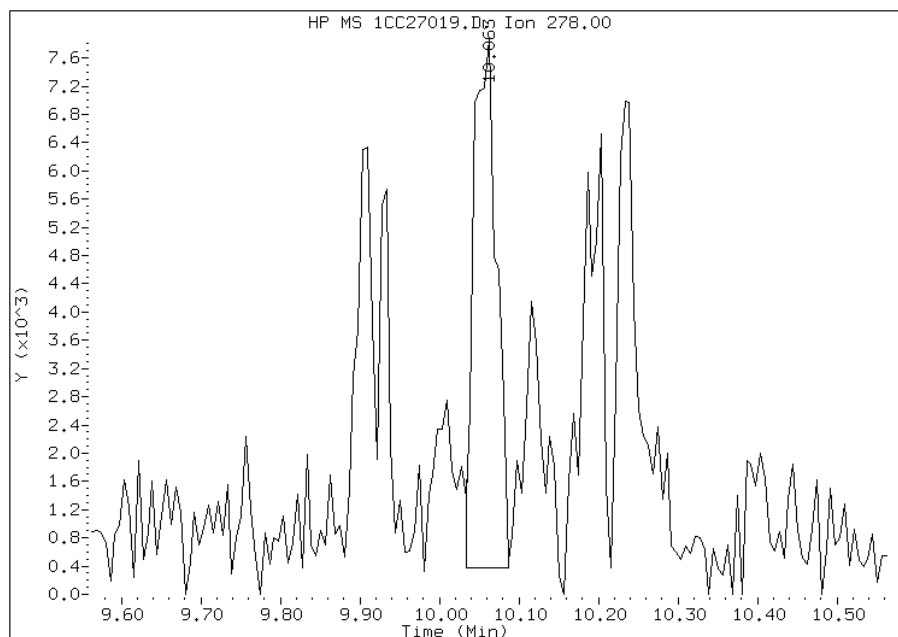
## Processing Integration Results

RT: 10.06  
Response: 11357  
Amount: 0  
Conc: 39



## Manual Integration Results

RT: 10.06  
Response: 14841  
Amount: 1  
Conc: 51



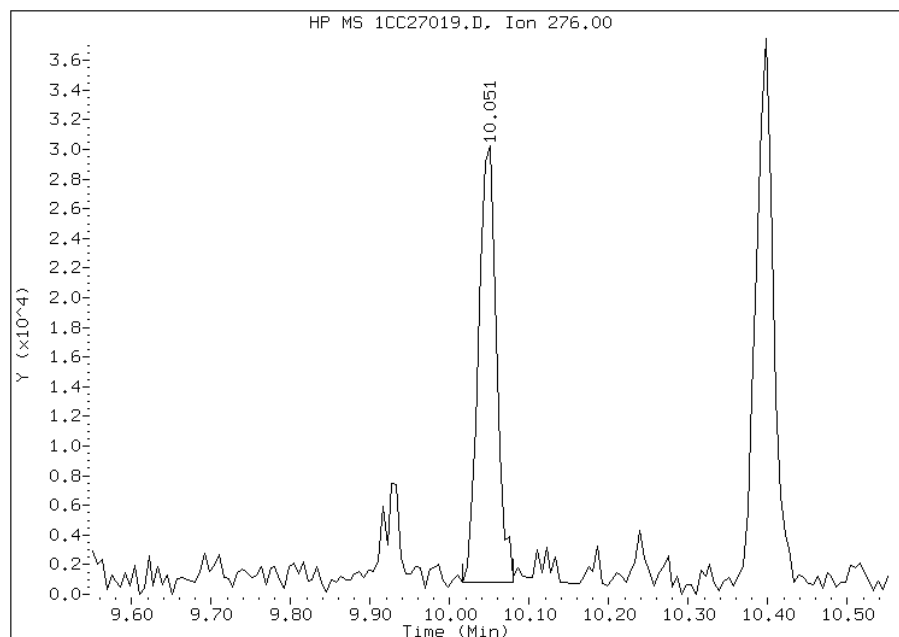
Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:23  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CC27019.D  
Inj. Date and Time: 27-MAR-2013 15:42  
Instrument ID: BSMC5973.i  
Client ID: CV0763B-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/01/2013

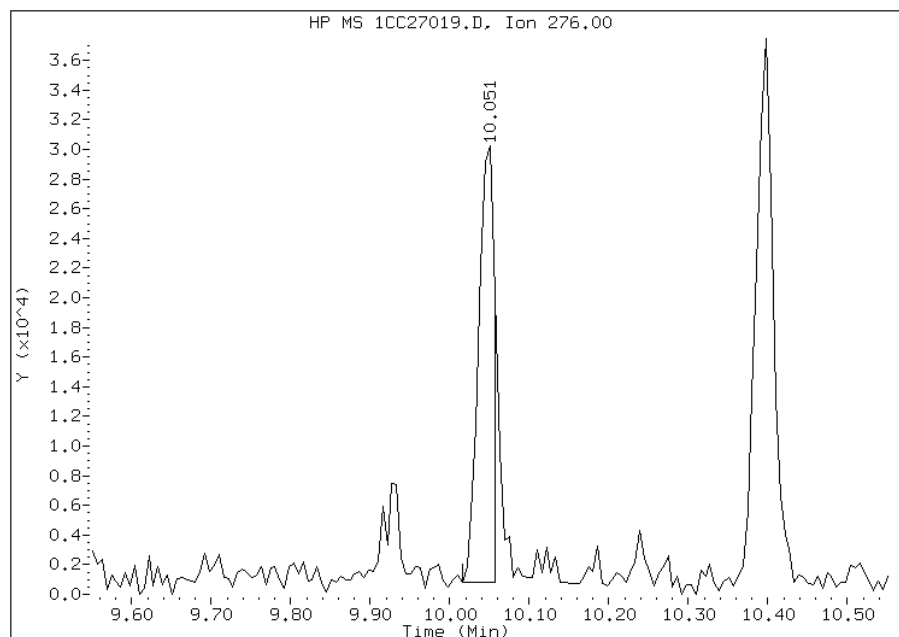
## Processing Integration Results

RT: 10.05  
Response: 45703  
Amount: 2  
Conc: 153



## Manual Integration Results

RT: 10.05  
Response: 40402  
Amount: 1  
Conc: 135



Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:23  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Client Sample ID: CV0833A-CS-SP Lab Sample ID: 680-88592-27  
 Matrix: Solid Lab File ID: 1CC27020.D  
 Analysis Method: 8270C LL Date Collected: 03/20/2013 13:05  
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07  
 Sample wt/vol: 14.96(g) Date Analyzed: 03/27/2013 16:00  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 33.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	600	U	600	120
208-96-8	Acenaphthylene	59	J	240	30
120-12-7	Anthracene	80		50	25
56-55-3	Benzo[a]anthracene	400		48	23
50-32-8	Benzo[a]pyrene	360		62	31
205-99-2	Benzo[b]fluoranthene	540		73	37
191-24-2	Benzo[g,h,i]perylene	210		120	26
207-08-9	Benzo[k]fluoranthene	210		48	22
218-01-9	Chrysene	430		54	27
53-70-3	Dibenz(a,h)anthracene	110	J	120	25
206-44-0	Fluoranthene	680		120	24
86-73-7	Fluorene	63	J	120	25
193-39-5	Indeno[1,2,3-cd]pyrene	190		120	42
90-12-0	1-Methylnaphthalene	460		240	26
91-57-6	2-Methylnaphthalene	420		240	42
91-20-3	Naphthalene	290		240	26
85-01-8	Phenanthrene	690		48	23
129-00-0	Pyrene	590		120	22

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	74		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27020.D  
 Lab Smp Id: 680-88592-A-27-A Client Smp ID: CV0833A-CS-SP  
 Inj Date : 27-MAR-2013 16:00  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88592-a-27-a  
 Misc Info : 680-88592-A-27-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m  
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
 Als bottle: 20  
 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	32.981	% 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		3.727	3.727	(1.000)	754225	40.0000	
* 6 Acenaphthene-d10	164		4.816	4.815	(1.000)	586701	40.0000	
* 10 Phenanthrene-d10	188		5.763	5.762	(1.000)	1044747	40.0000	
\$ 14 o-Terphenyl	230		6.016	6.015	(1.044)	29217	1.85224	738.9700
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1135048	40.0000	
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1138156	40.0000	
2 Naphthalene	128		3.739	3.739	(1.003)	14118	0.71901	286.8568
3 2-Methylnaphthalene	142		4.169	4.168	(1.118)	13665	1.04332	416.2434
4 1-Methylnaphthalene	142		4.227	4.227	(1.134)	13662	1.14530	456.9279
5 Acenaphthylene	152		4.727	4.727	(0.982)	3477	0.14699	58.6450
9 Fluorene	166		5.151	5.157	(1.070)	2922	0.15715	62.6968
11 Phenanthrene	178		5.780	5.780	(1.003)	52200	1.72794	689.3784
12 Anthracene	178		5.816	5.815	(1.009)	5945	0.20122	80.2791
13 Carbazole	167		5.921	5.921	(1.028)	7948	0.30263	120.7372

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.616	6.615 (1.148)		56743	1.71517	684.2856
16 Pyrene	202	6.780	6.786 (0.880)		45047	1.47682	589.1917
17 Benzo(a)anthracene	228	7.698	7.698 (0.999)		32629	0.99601	397.3693
19 Chrysene	228	7.721	7.727 (1.002)		35683	1.08842	434.2360
20 Benzo(b)fluoranthene	252	8.539	8.539 (0.961)		40119	1.34880	538.1178(M)
21 Benzo(k)fluoranthene	252	8.562	8.562 (0.964)		16046	0.52587	209.8033(M)
22 Benzo(a)pyrene	252	8.833	8.833 (0.994)		26092	0.90311	360.3038
24 Indeno(1,2,3-cd)pyrene	276	10.045	10.050 (1.130)		13172	0.48465	193.3545(M)
25 Dibenzo(a,h)anthracene	278	10.056	10.068 (1.132)		7641	0.28742	114.6704
26 Benzo(g,h,i)perylene	276	10.386	10.397 (1.169)		15198	0.53455	213.2664(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC27020.D

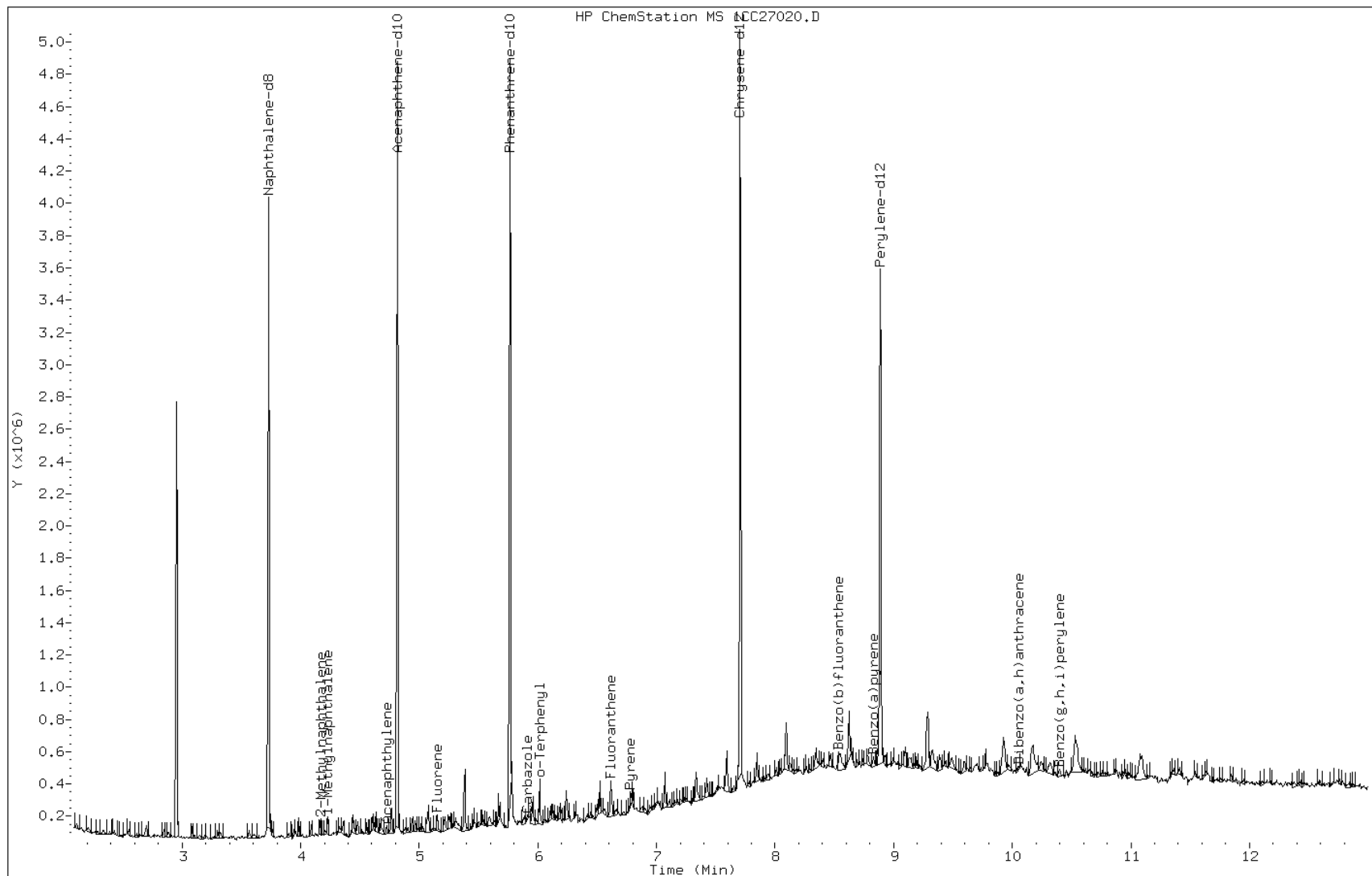
Date: 27-MAR-2013 16:00

Client ID: CV0833A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-27-a

Operator: SCC



Data File: 1CC27020.D

Date: 27-MAR-2013 16:00

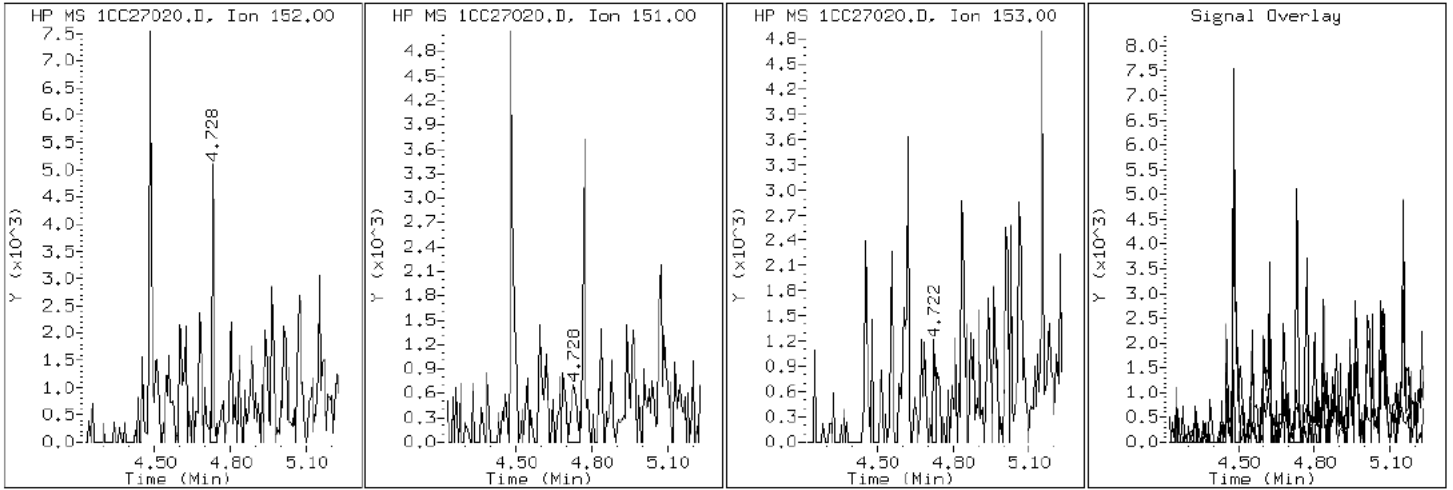
Client ID: CV0833A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-27-a

Operator: SCC

5 Acenaphthylene





Data File: 1CC27020.D

Date: 27-MAR-2013 16:00

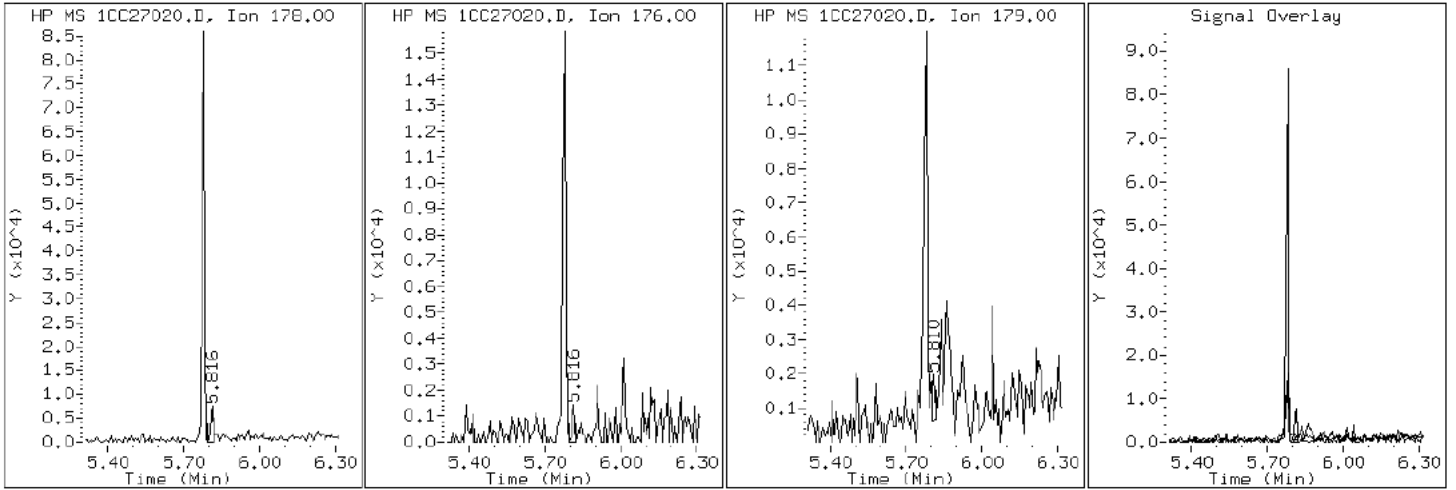
Client ID: CV0833A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-27-a

Operator: SCC

12 Anthracene



Data File: 1CC27020.D

Date: 27-MAR-2013 16:00

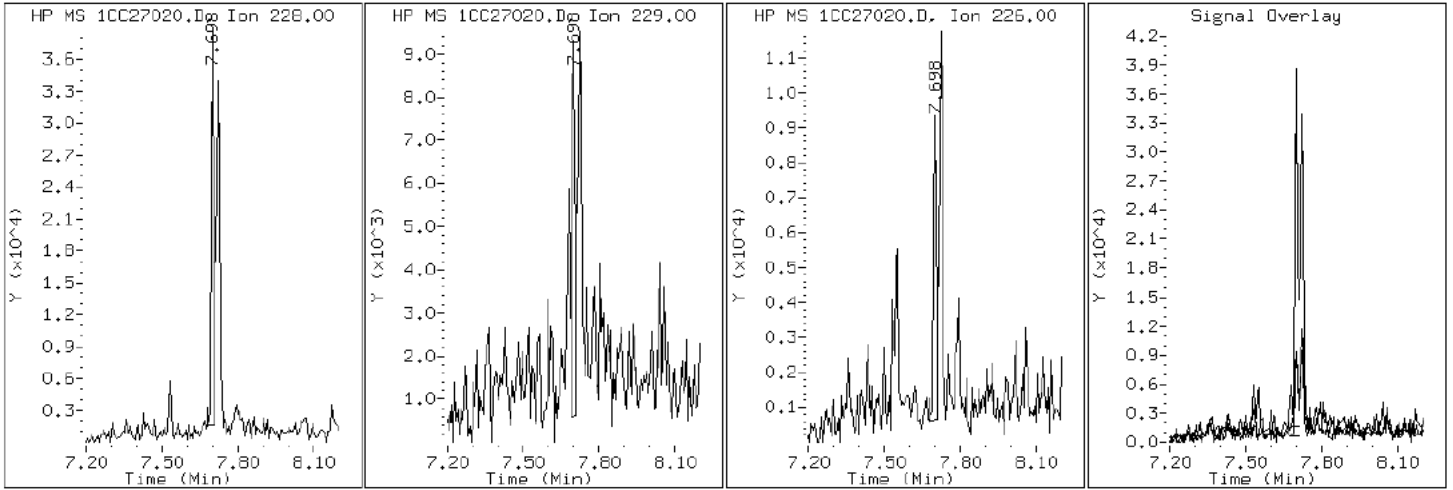
Client ID: CV0833A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-27-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC27020.D

Date: 27-MAR-2013 16:00

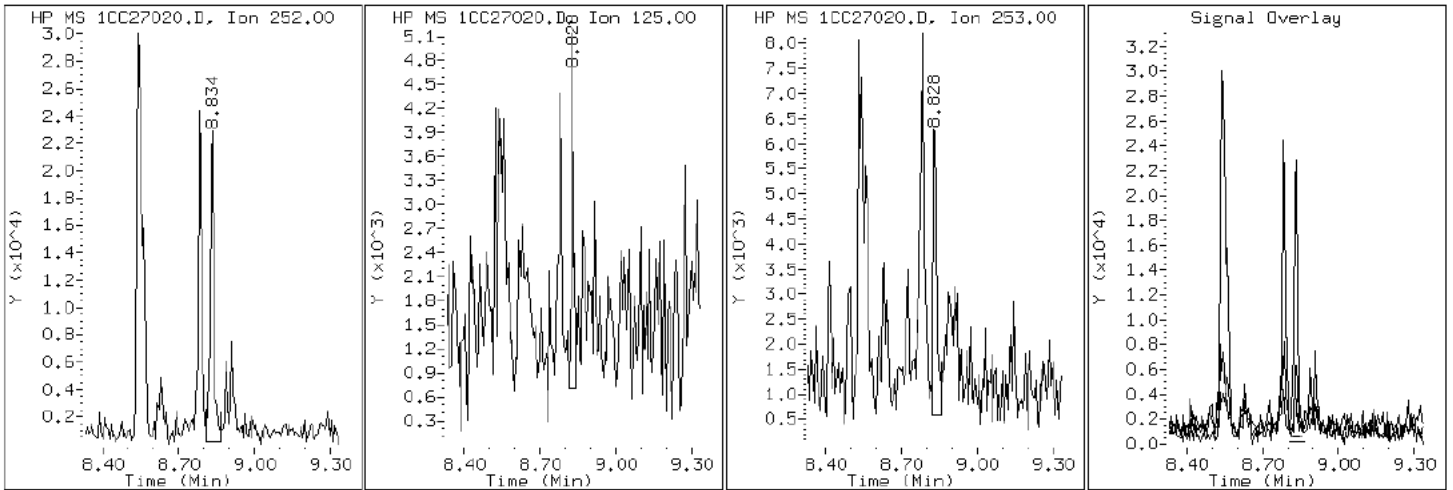
Client ID: CV0833A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-27-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC27020.D

Date: 27-MAR-2013 16:00

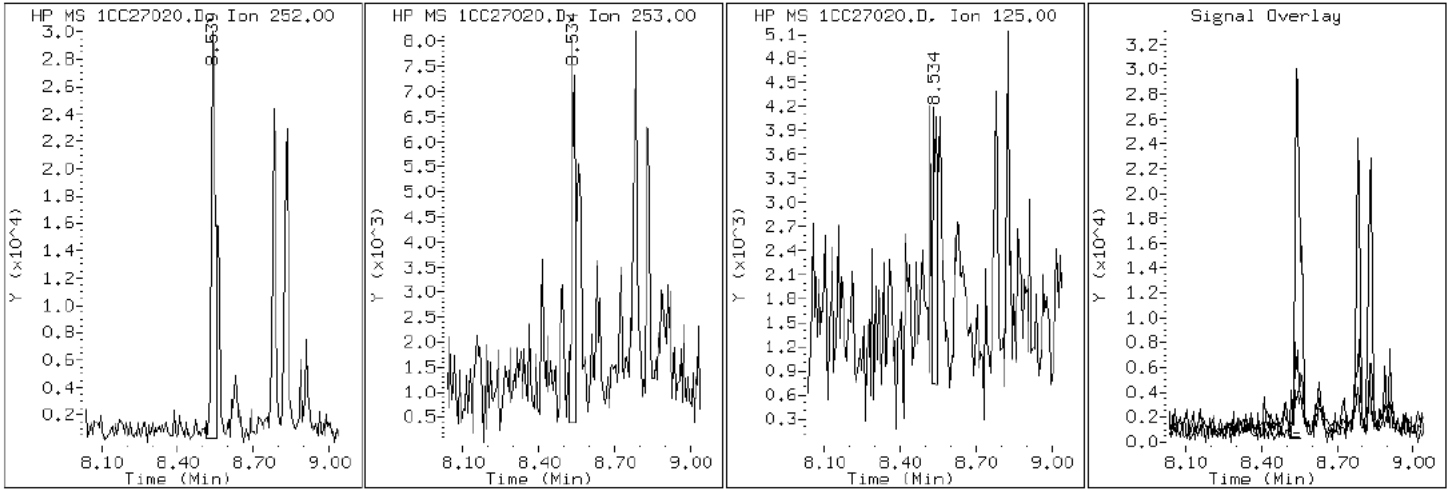
Client ID: CV0833A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-27-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC27020.D

Date: 27-MAR-2013 16:00

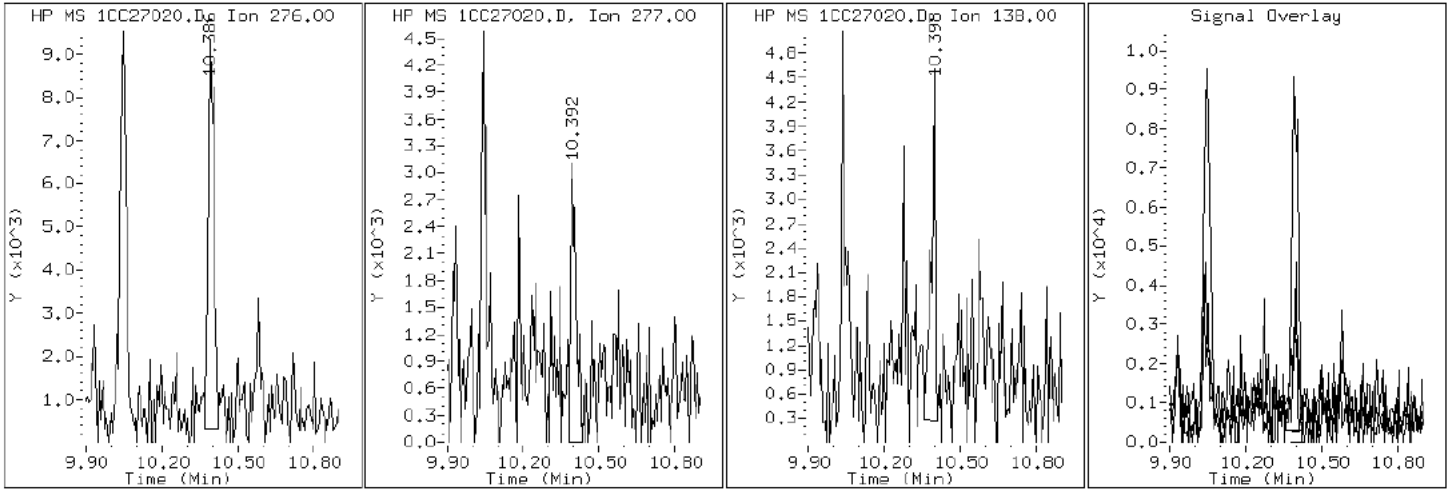
Client ID: CV0833A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-27-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC27020.D

Date: 27-MAR-2013 16:00

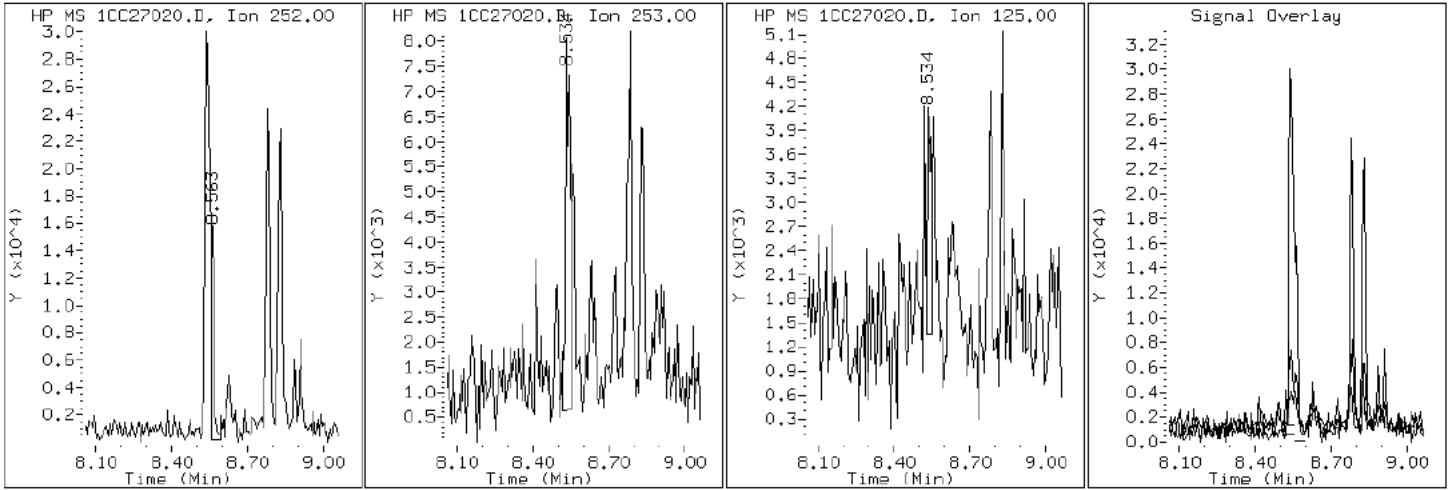
Client ID: CV0833A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-27-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC27020.D

Date: 27-MAR-2013 16:00

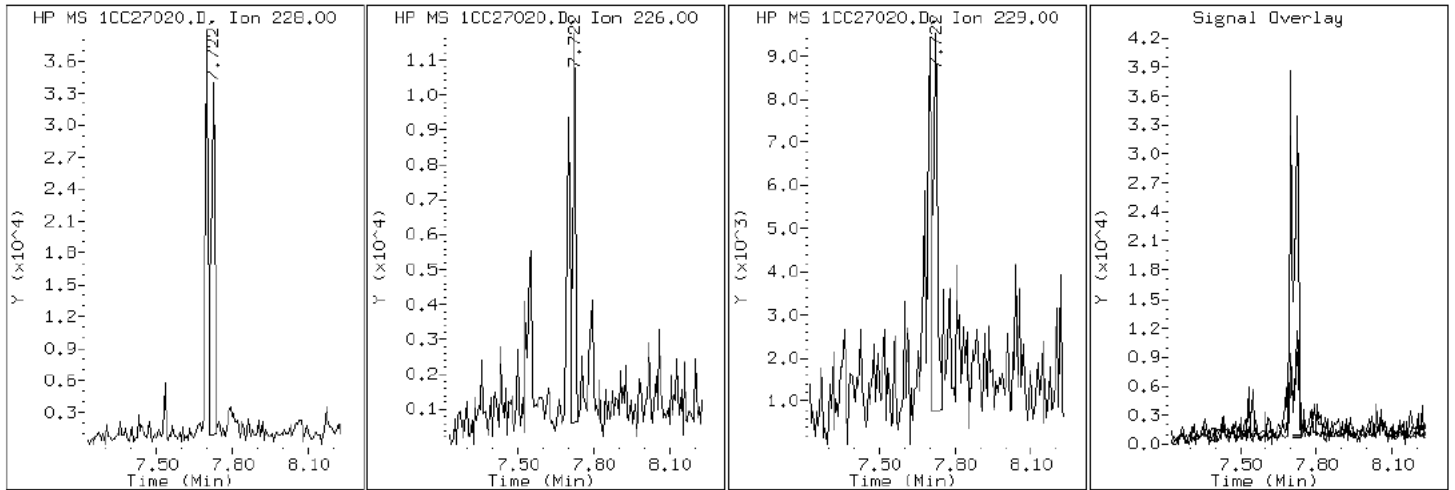
Client ID: CV0833A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-27-a

Operator: SCC

19 Chrysene



Data File: 1CC27020.D

Date: 27-MAR-2013 16:00

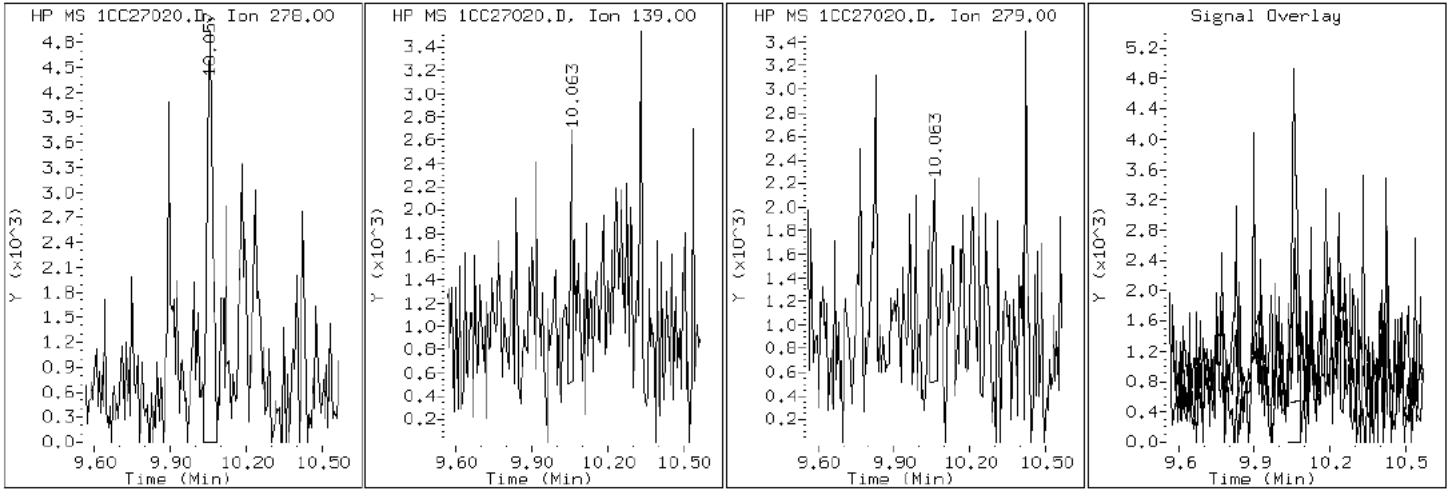
Client ID: CV0833A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-27-a

Operator: SCC

25 Dibenzo (a,h) anthracene





Data File: 1CC27020.D

Date: 27-MAR-2013 16:00

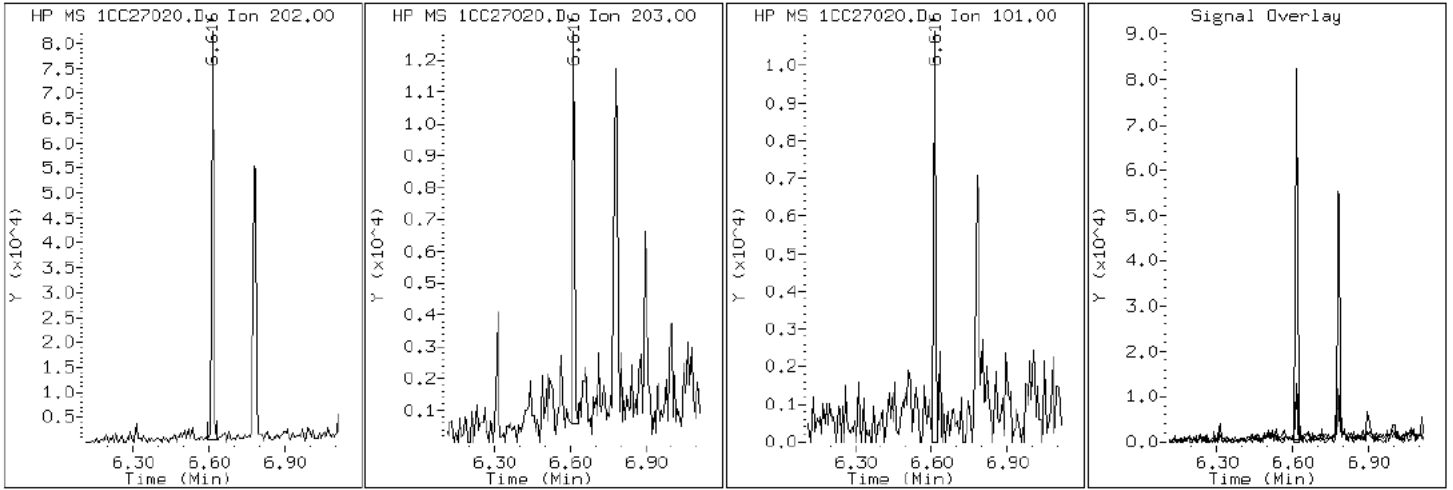
Client ID: CV0833A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-27-a

Operator: SCC

15 Fluoranthene



Data File: 1CC27020.D

Date: 27-MAR-2013 16:00

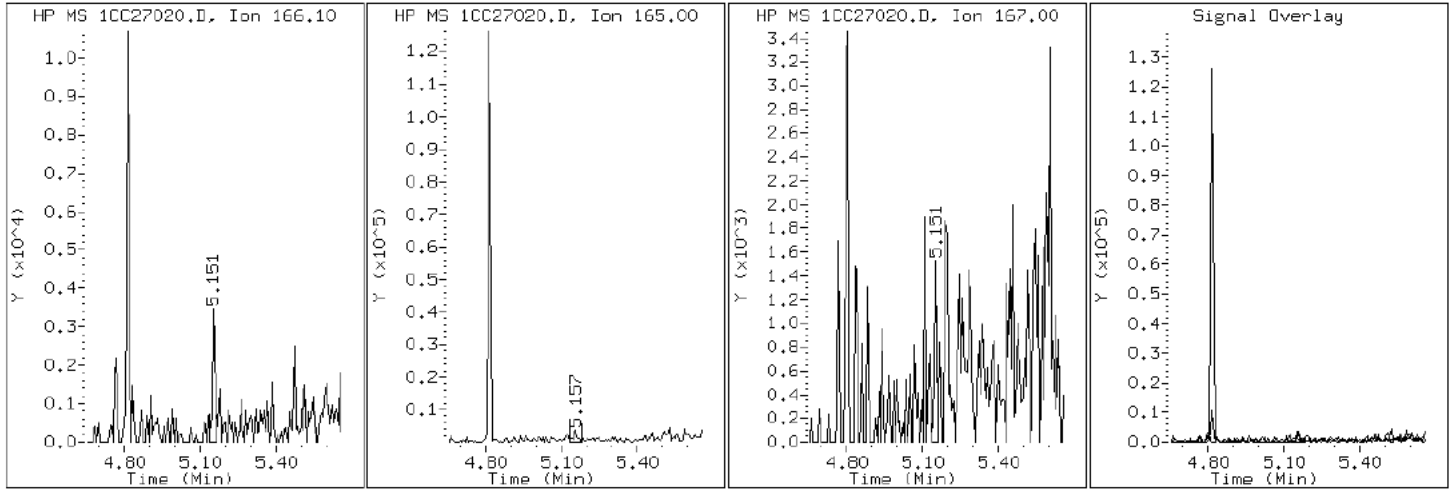
Client ID: CV0833A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-27-a

Operator: SCC

9 Fluorene



Data File: 1CC27020.D

Date: 27-MAR-2013 16:00

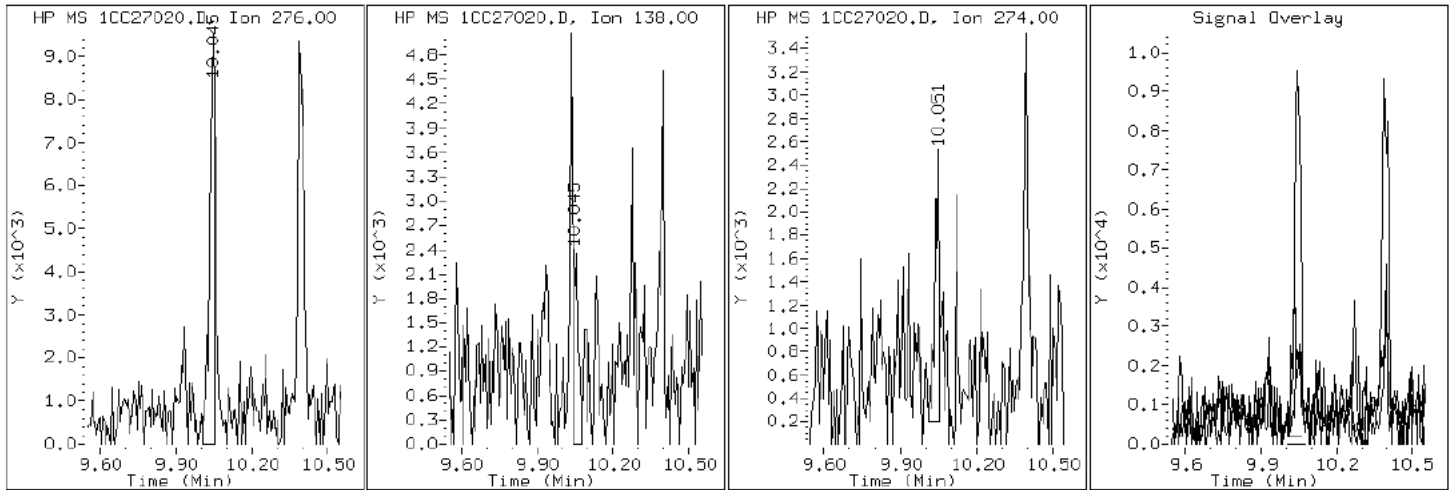
Client ID: CV0833A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-27-a

Operator: SCC

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



Data File: 1CC27020.D

Date: 27-MAR-2013 16:00

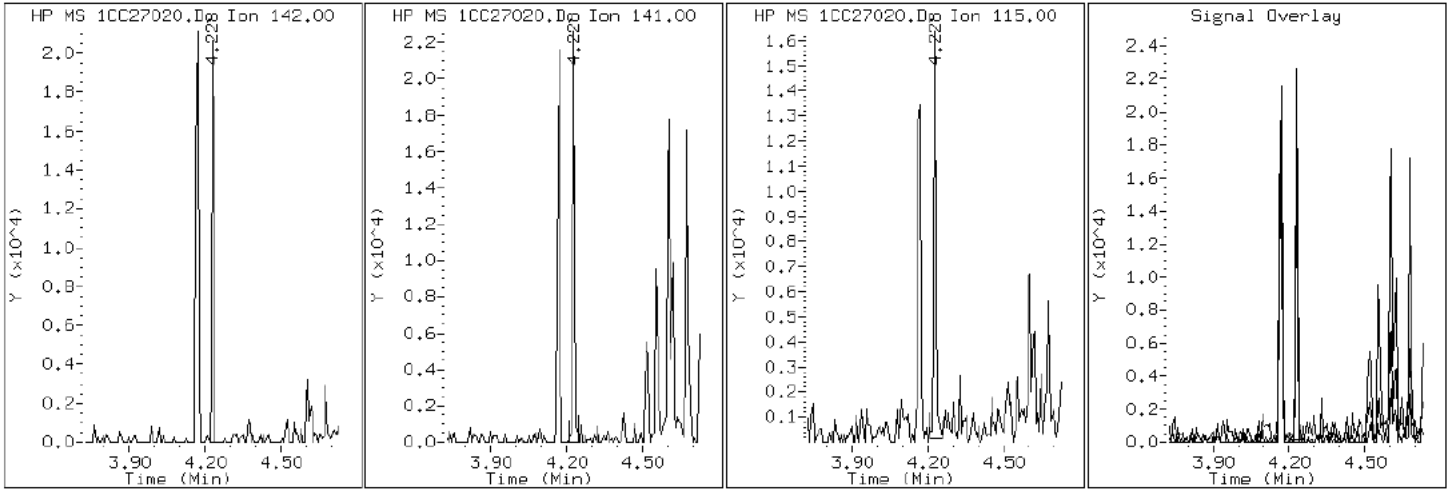
Client ID: CV0833A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-27-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC27020.D

Date: 27-MAR-2013 16:00

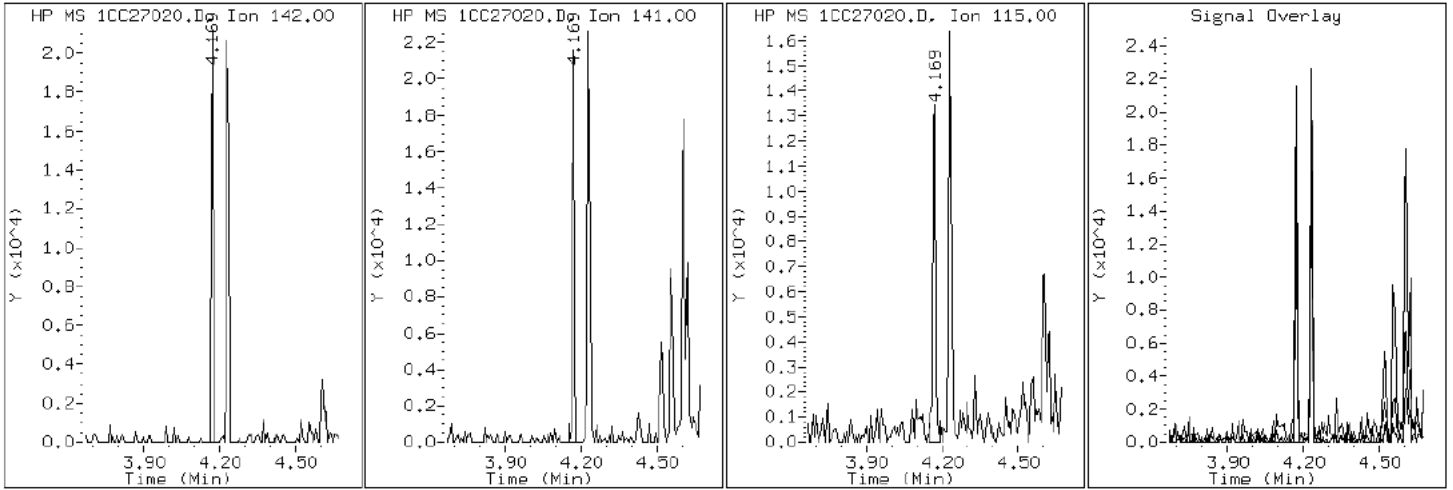
Client ID: CV0833A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-27-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC27020.D

Date: 27-MAR-2013 16:00

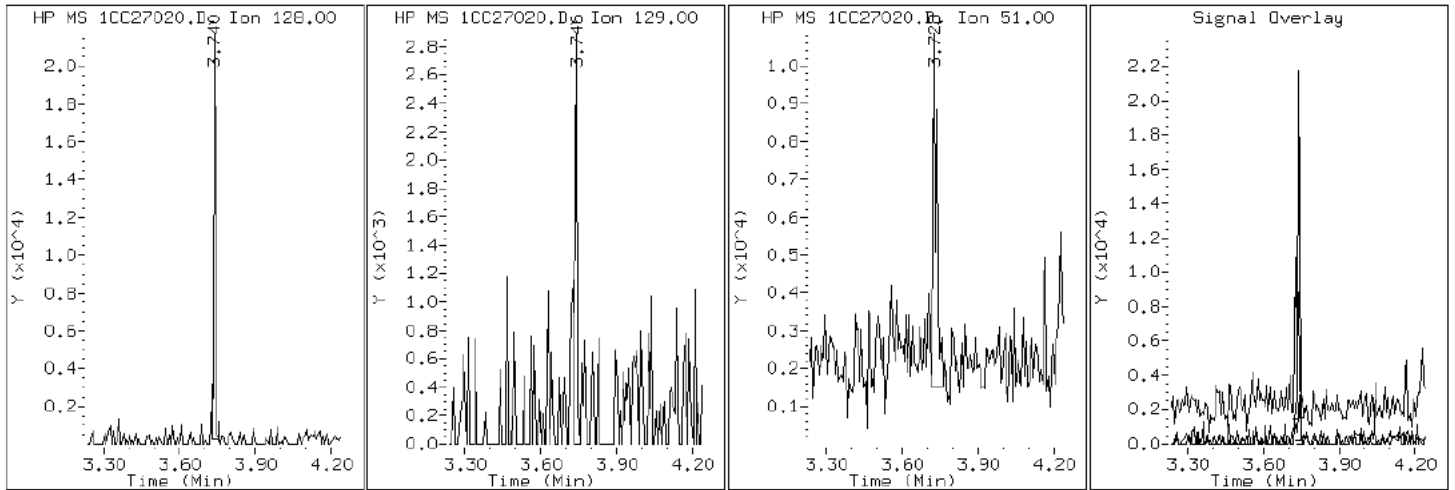
Client ID: CV0833A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-27-a

Operator: SCC

2 Naphthalene



Data File: 1CC27020.D

Date: 27-MAR-2013 16:00

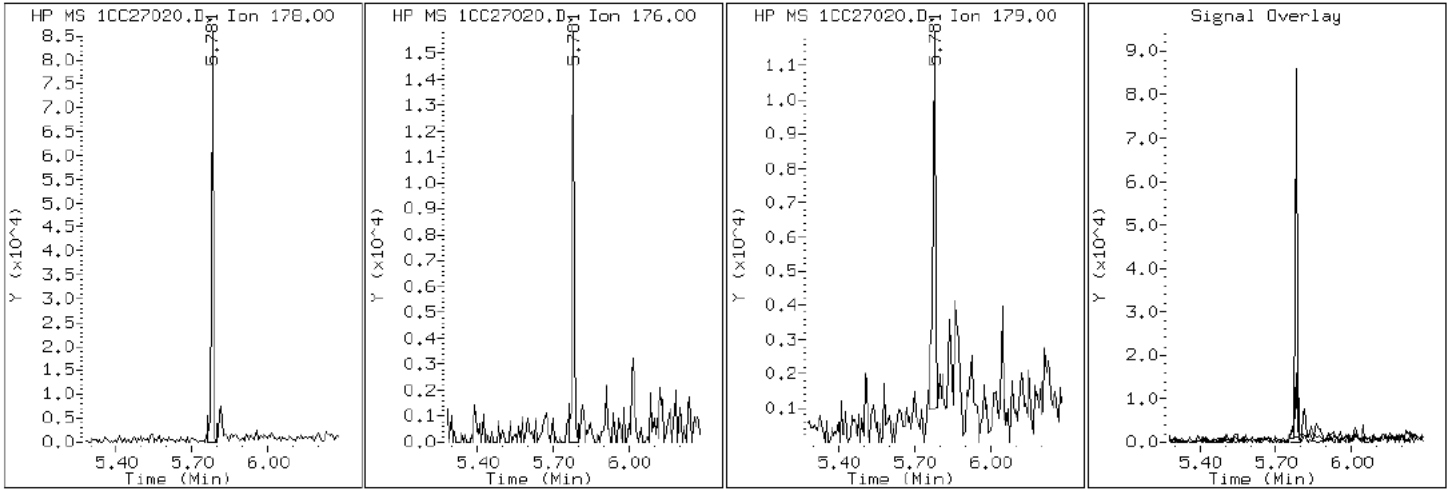
Client ID: CV0833A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-27-a

Operator: SCC

11 Phenanthrene



Data File: 1CC27020.D

Date: 27-MAR-2013 16:00

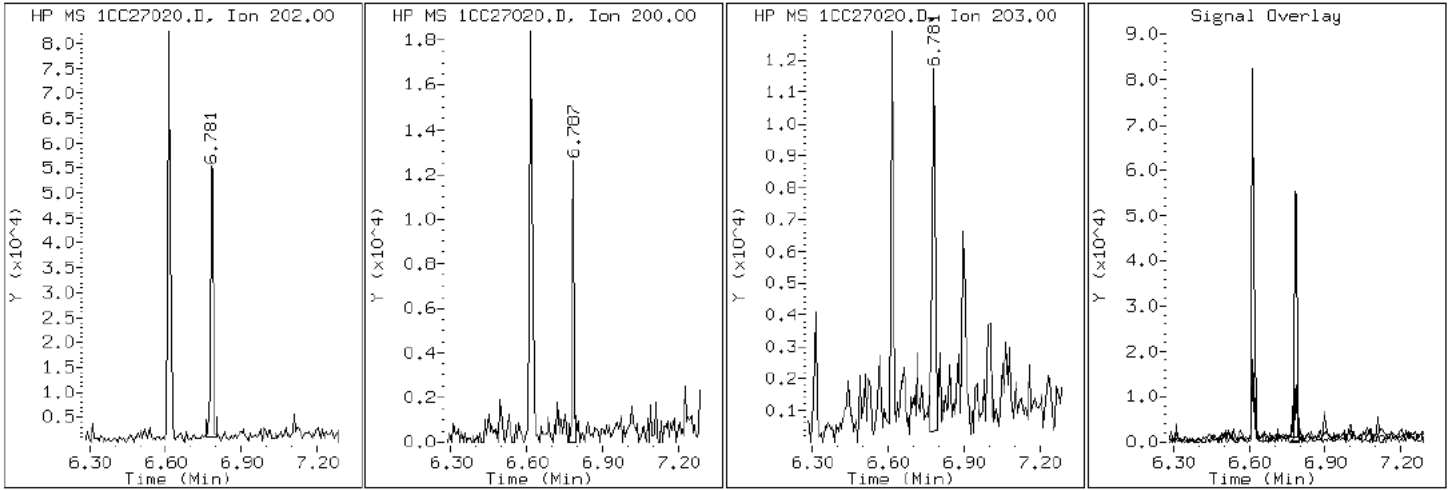
Client ID: CV0833A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-27-a

Operator: SCC

16 Pyrene



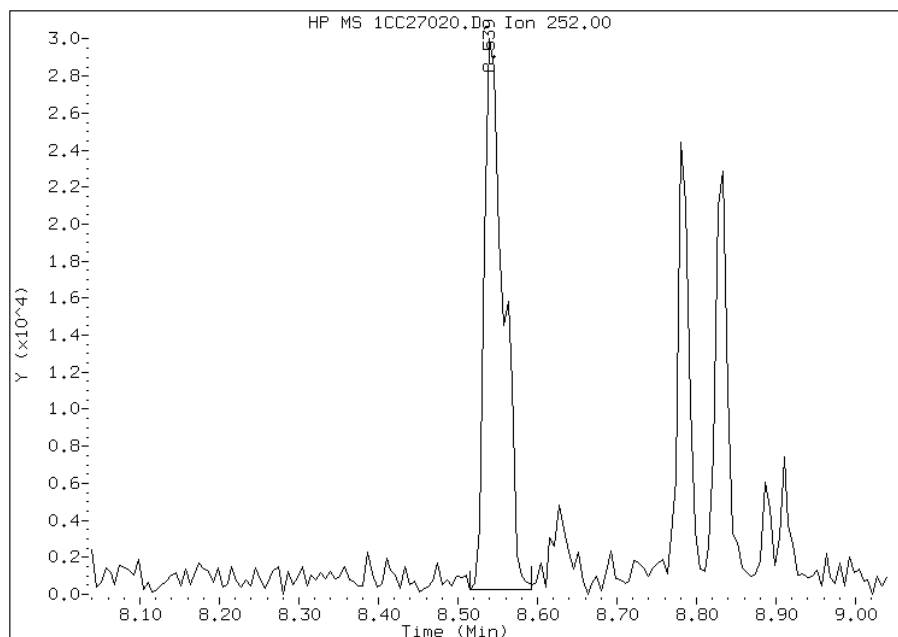


# Manual Integration Report

Data File: 1CC27020.D  
Inj. Date and Time: 27-MAR-2013 16:00  
Instrument ID: BSMC5973.i  
Client ID: CV0833A-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/01/2013

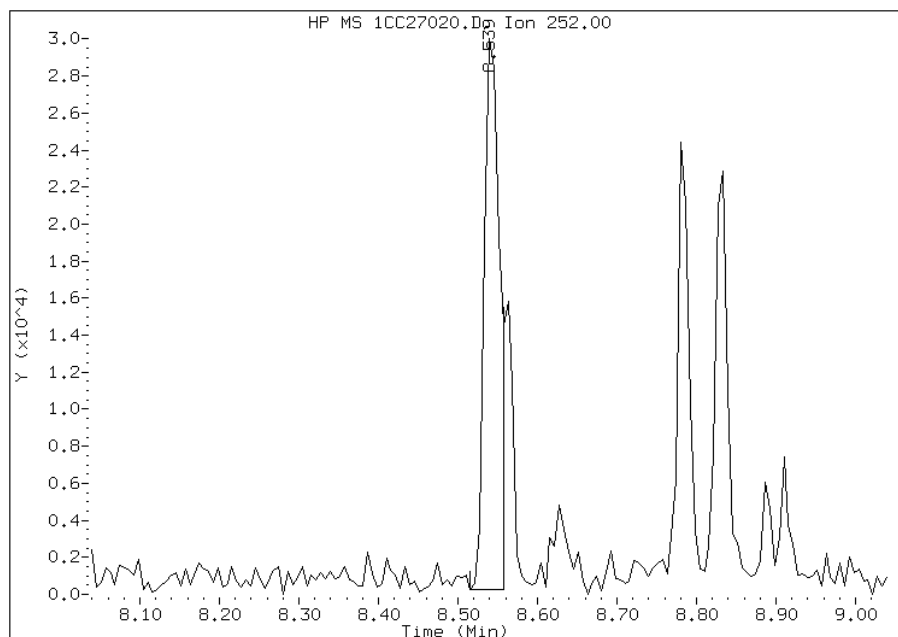
## Processing Integration Results

RT: 8.54  
Response: 50651  
Amount: 2  
Conc: 679



## Manual Integration Results

RT: 8.54  
Response: 40119  
Amount: 1  
Conc: 538



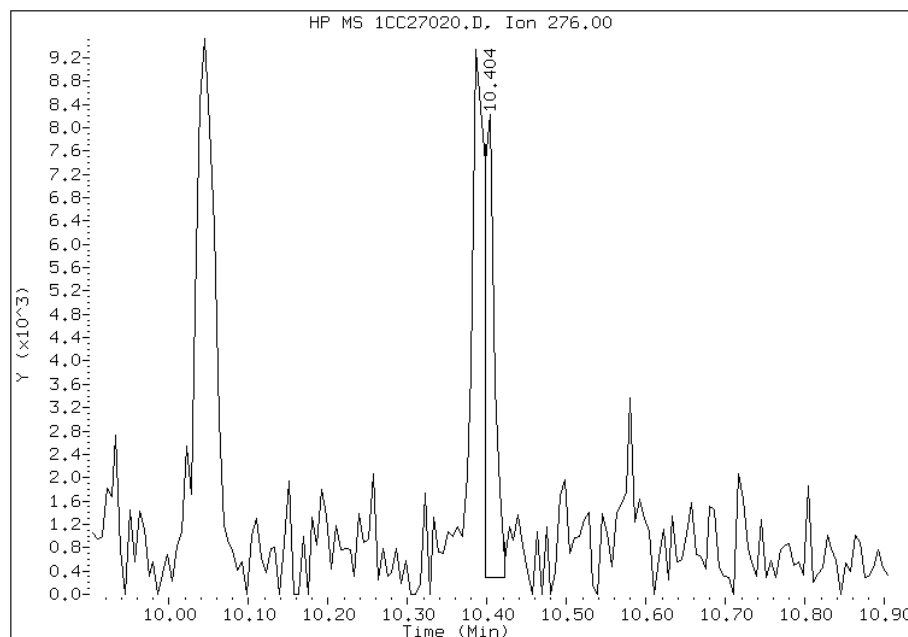
Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:24  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CC27020.D  
Inj. Date and Time: 27-MAR-2013 16:00  
Instrument ID: BSMC5973.i  
Client ID: CV0833A-CS-SP  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/01/2013

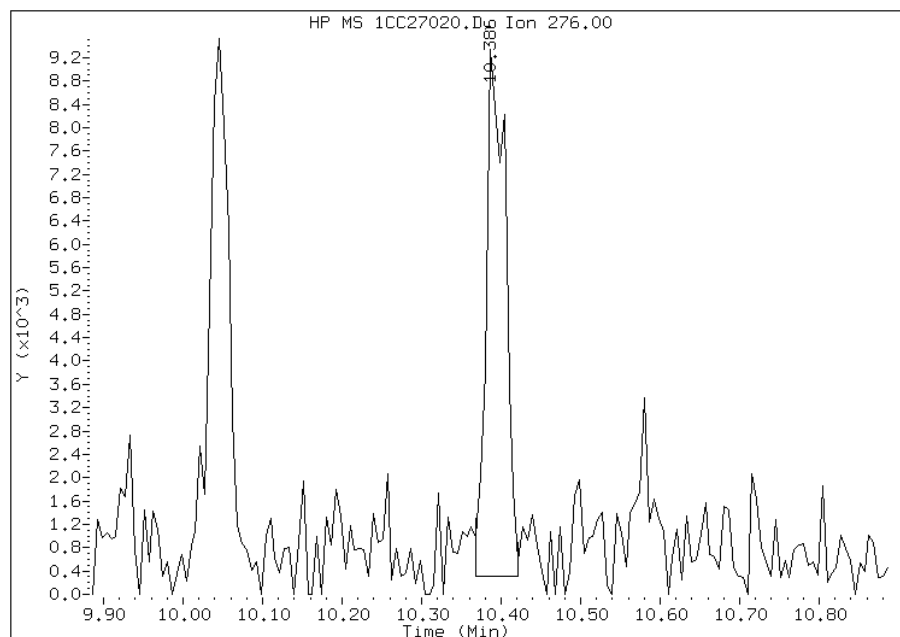
## Processing Integration Results

RT: 10.40  
Response: 7099  
Amount: 0  
Conc: 100



## Manual Integration Results

RT: 10.39  
Response: 15198  
Amount: 1  
Conc: 213



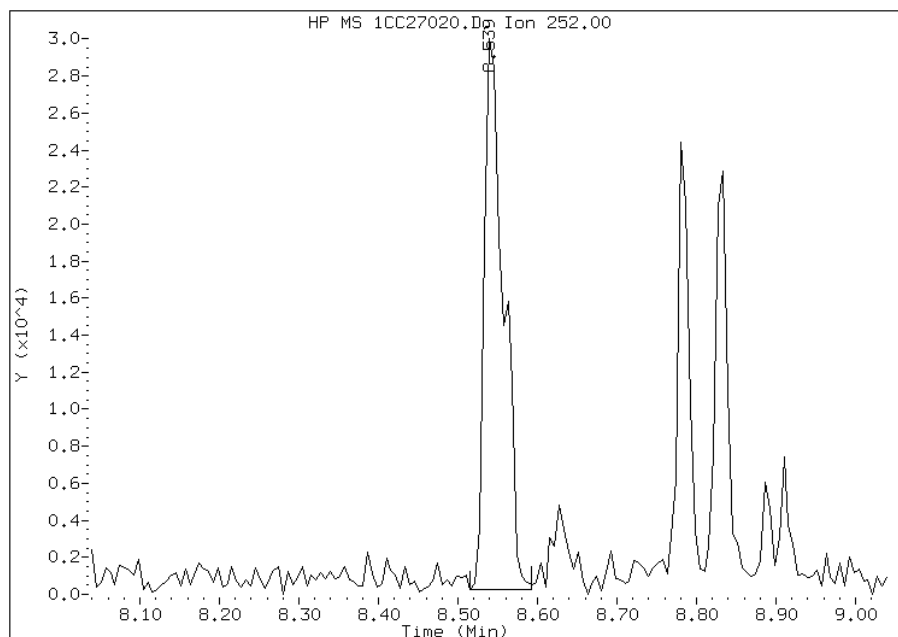
Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:24  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CC27020.D  
Inj. Date and Time: 27-MAR-2013 16:00  
Instrument ID: BSMC5973.i  
Client ID: CV0833A-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/01/2013

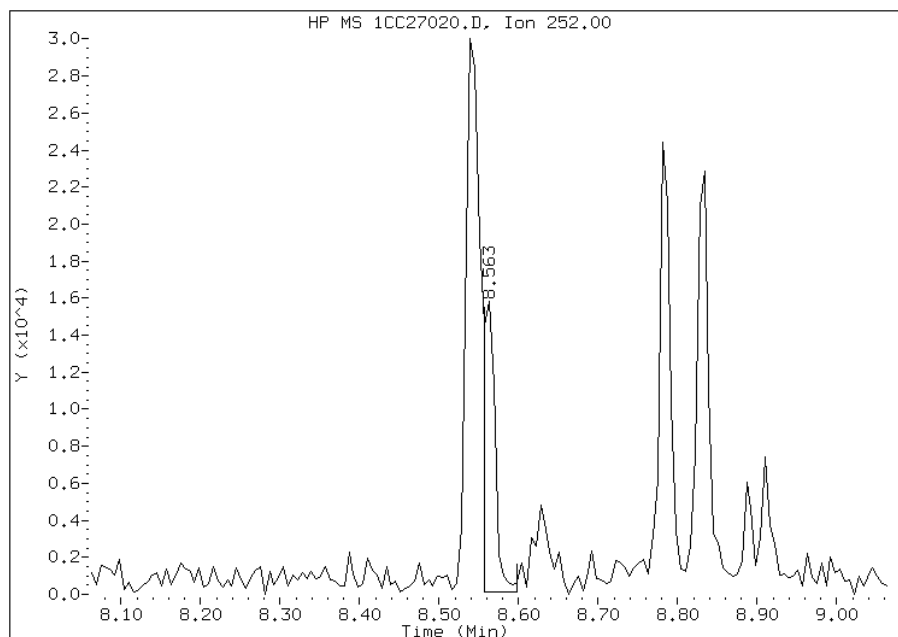
## Processing Integration Results

RT: 8.54  
Response: 50651  
Amount: 2  
Conc: 662



## Manual Integration Results

RT: 8.56  
Response: 16046  
Amount: 1  
Conc: 210



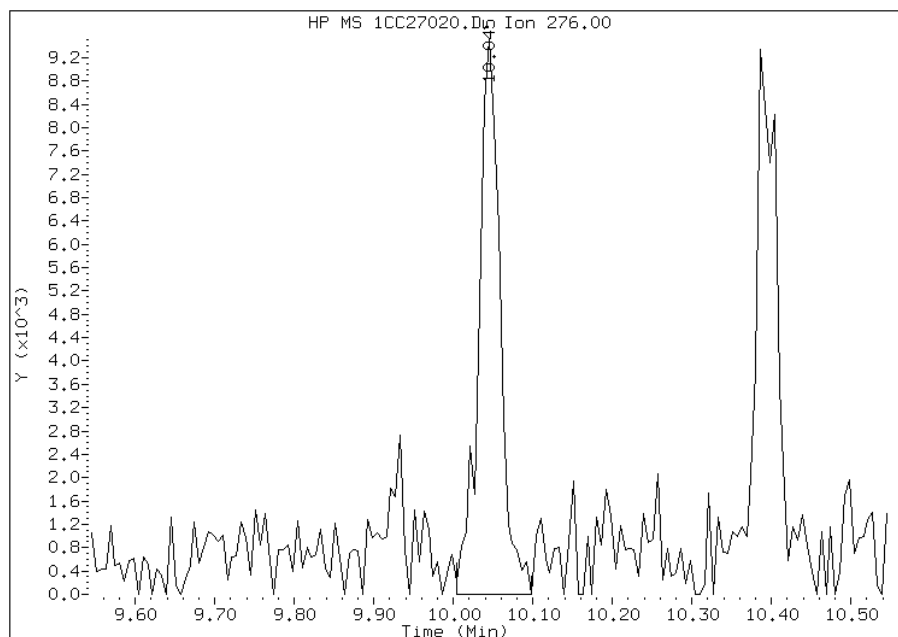
Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:24  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CC27020.D  
Inj. Date and Time: 27-MAR-2013 16:00  
Instrument ID: BSMC5973.i  
Client ID: CV0833A-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/01/2013

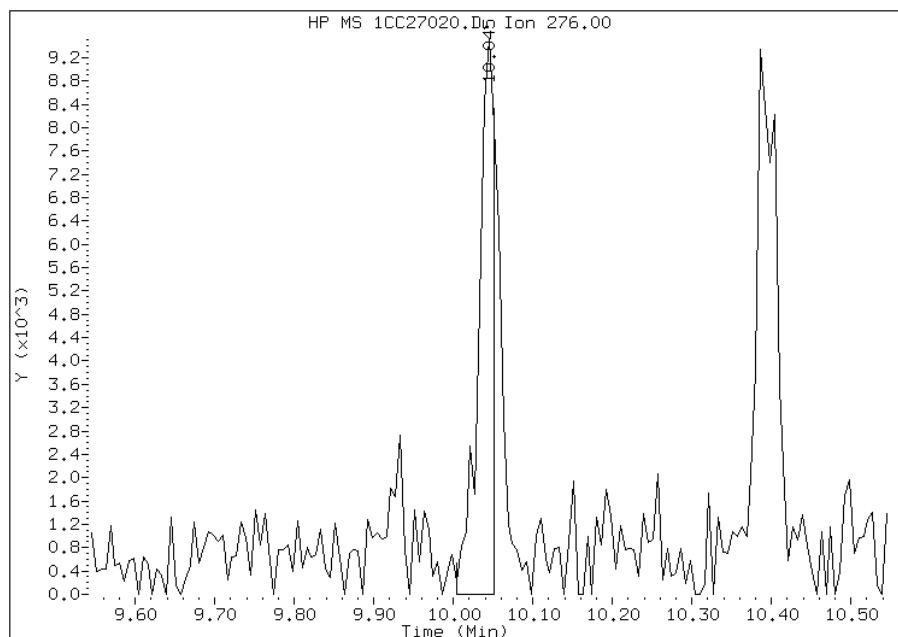
## Processing Integration Results

RT: 10.05  
Response: 17786  
Amount: 1  
Conc: 261



## Manual Integration Results

RT: 10.05  
Response: 13172  
Amount: 0  
Conc: 193



Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:24  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Client Sample ID: CV0833B-CS-SP Lab Sample ID: 680-88592-28  
 Matrix: Solid Lab File ID: 1CC27022.D  
 Analysis Method: 8270C LL Date Collected: 03/20/2013 13:15  
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07  
 Sample wt/vol: 15.15(g) Date Analyzed: 03/27/2013 16:37  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 23.1 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	J	520	100
208-96-8	Acenaphthylene	32	J	210	26
120-12-7	Anthracene	350		43	22
56-55-3	Benzo[a]anthracene	980		41	20
50-32-8	Benzo[a]pyrene	890		54	27
205-99-2	Benzo[b]fluoranthene	1500		63	31
191-24-2	Benzo[g,h,i]perylene	630		100	23
207-08-9	Benzo[k]fluoranthene	470		41	19
218-01-9	Chrysene	1100		46	23
53-70-3	Dibenz(a,h)anthracene	190		100	21
206-44-0	Fluoranthene	2100		100	21
86-73-7	Fluorene	110		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	530		100	37
90-12-0	1-Methylnaphthalene	240		210	23
91-57-6	2-Methylnaphthalene	280		210	37
91-20-3	Naphthalene	430		210	23
85-01-8	Phenanthrene	1600		41	20
129-00-0	Pyrene	1900		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	80		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27022.D  
 Lab Smp Id: 680-88592-A-28-A Client Smp ID: CV0833B-CS-SP  
 Inj Date : 27-MAR-2013 16:37  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88592-a-28-a  
 Misc Info : 680-88592-A-28-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m  
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	15.150	Weight Extracted
M	23.110	% 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		3.727	3.727	(1.000)	774248	40.0000	
* 6 Acenaphthene-d10	164		4.815	4.815	(1.000)	609945	40.0000	
* 10 Phenanthrene-d10	188		5.762	5.762	(1.000)	1103278	40.0000	
\$ 14 o-Terphenyl	230		6.015	6.015	(1.044)	33156	1.99044	683.4827
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1191320	40.0000	
* 23 Perylene-d12	264		8.892	8.886	(1.000)	1171020	40.0000	
2 Naphthalene	128		3.739	3.739	(1.003)	25492	1.26470	434.2750
3 2-Methylnaphthalene	142		4.168	4.168	(1.118)	11079	0.82400	282.9483
4 1-Methylnaphthalene	142		4.227	4.227	(1.134)	8587	0.70124	240.7929
5 Acenaphthylene	152		4.727	4.727	(0.982)	2278	0.09264	31.8093
7 Acenaphthene	154		4.833	4.833	(1.004)	4595	0.30063	103.2300
9 Fluorene	166		5.157	5.157	(1.071)	5912	0.30584	105.0204
11 Phenanthrene	178		5.780	5.780	(1.003)	151757	4.75699	1633.4662
12 Anthracene	178		5.815	5.815	(1.009)	31929	1.02337	351.4072

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.921	5.921	(1.028)	26539	0.95689	328.5808
15 Fluoranthene	202	6.615	6.615	(1.148)	212650	6.08676	2090.0890
16 Pyrene	202	6.786	6.786	(0.881)	173905	5.43198	1865.2486
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	98178	2.85536	980.4798
19 Chrysene	228	7.727	7.727	(1.003)	109317	3.17693	1090.9029
20 Benzo(b)fluoranthene	252	8.545	8.539	(0.961)	134864	4.40687	1513.2437
21 Benzo(k)fluoranthene	252	8.568	8.562	(0.964)	42997	1.36959	470.2938(Q)
22 Benzo(a)pyrene	252	8.839	8.833	(0.994)	76616	2.57744	885.0475
24 Indeno(1,2,3-cd)pyrene	276	10.050	10.050	(1.130)	43515	1.55614	534.3517(M)
25 Dibenzo(a,h)anthracene	278	10.068	10.068	(1.132)	14878	0.54394	186.7804
26 Benzo(g,h,i)perylene	276	10.403	10.397	(1.170)	53815	1.83970	631.7204

QC Flag Legend

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

Data File: 1CC27022.D

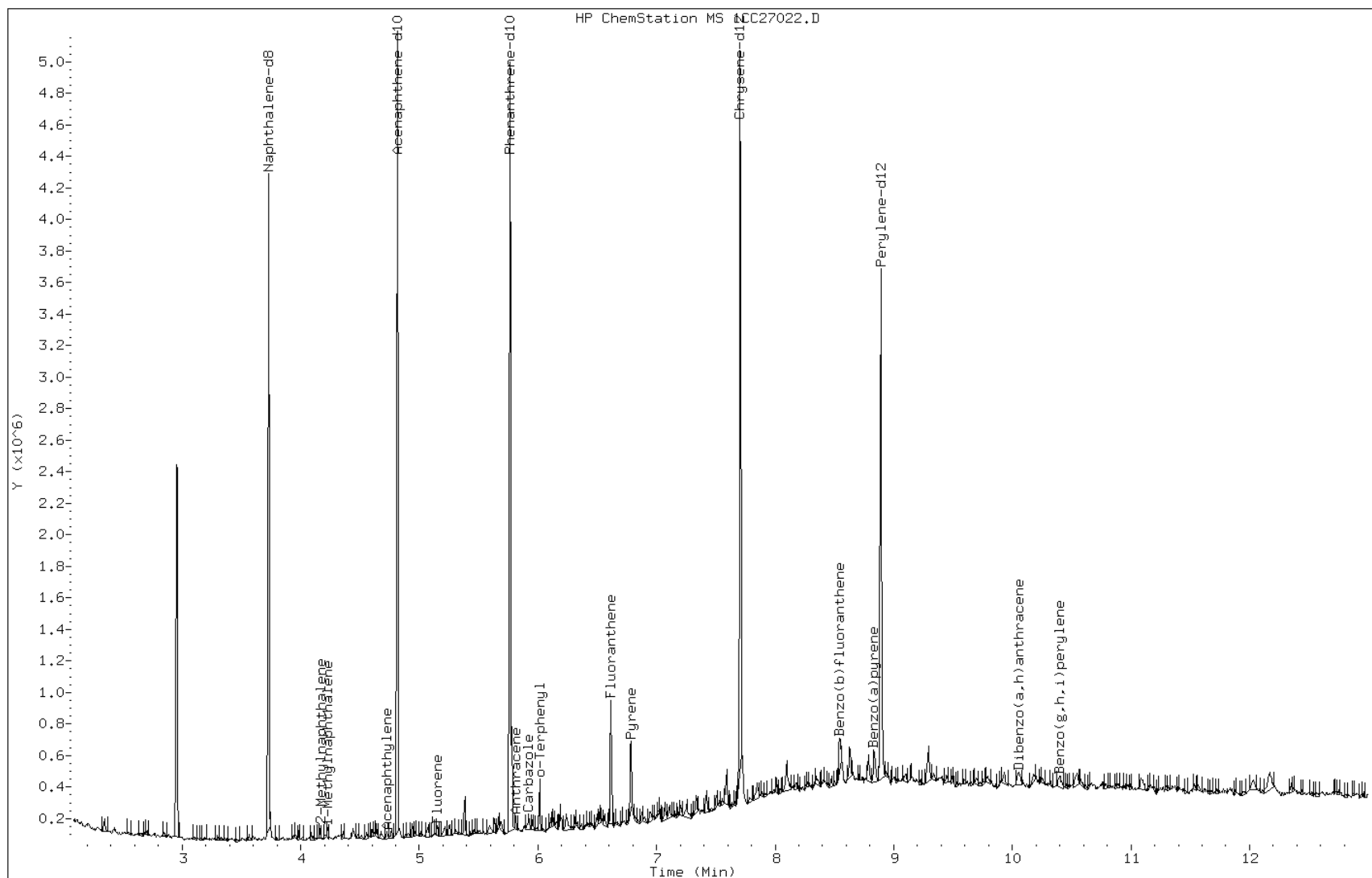
Date: 27-MAR-2013 16:37

Client ID: CV0833B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-28-a

Operator: SCC





Data File: 1CC27022.D

Date: 27-MAR-2013 16:37

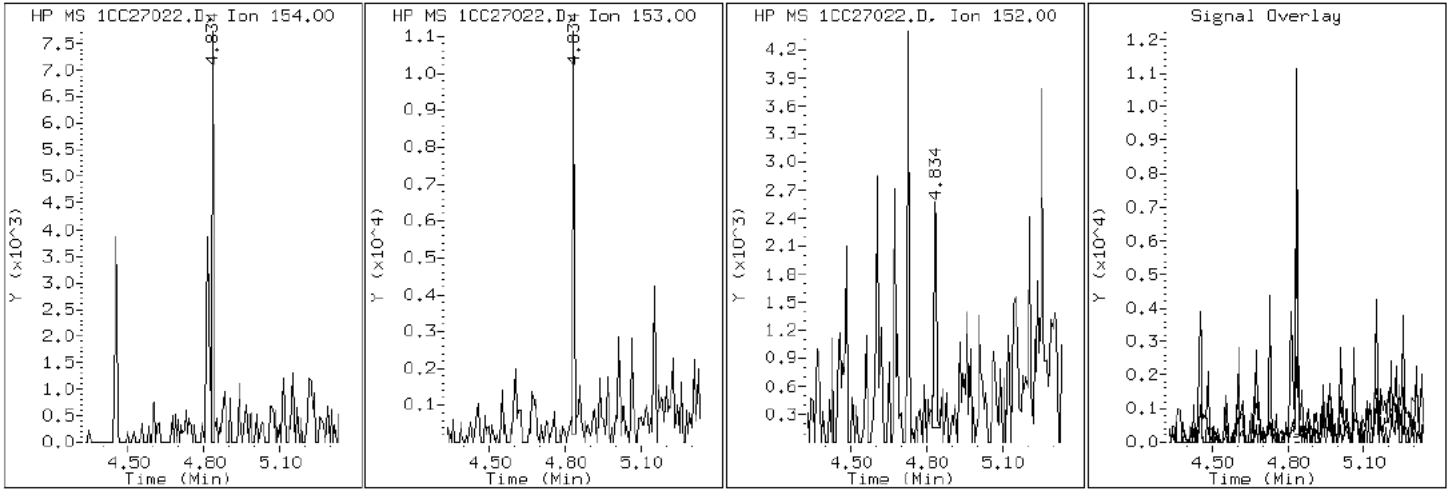
Client ID: CV0833B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-28-a

Operator: SCC

7 Acenaphthene



Data File: 1CC27022.D

Date: 27-MAR-2013 16:37

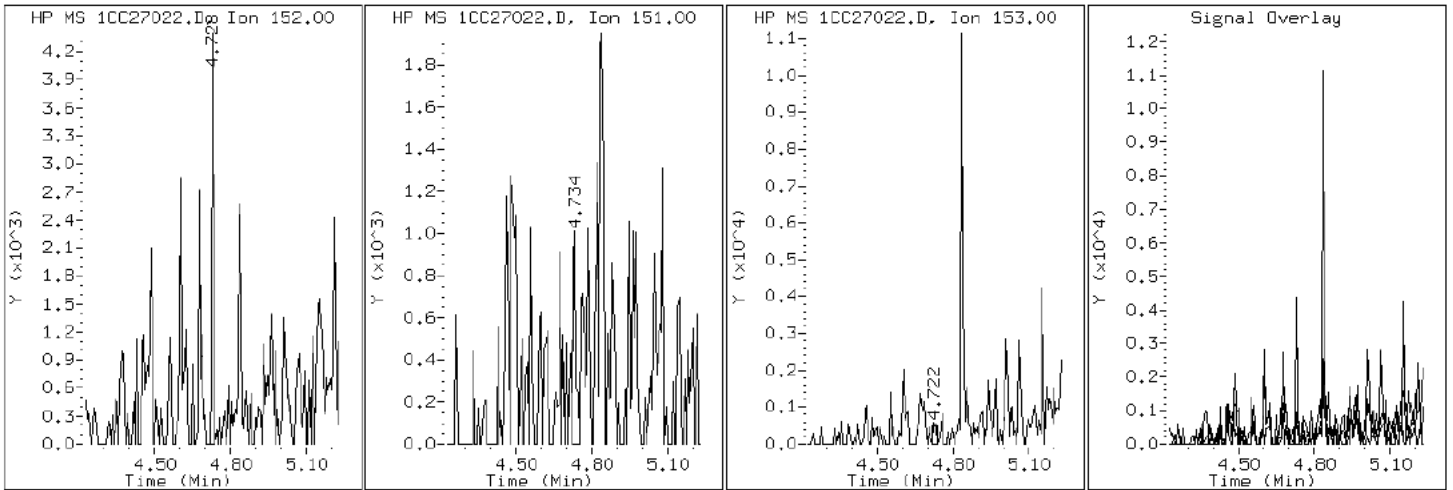
Client ID: CV0833B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-28-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC27022.D

Date: 27-MAR-2013 16:37

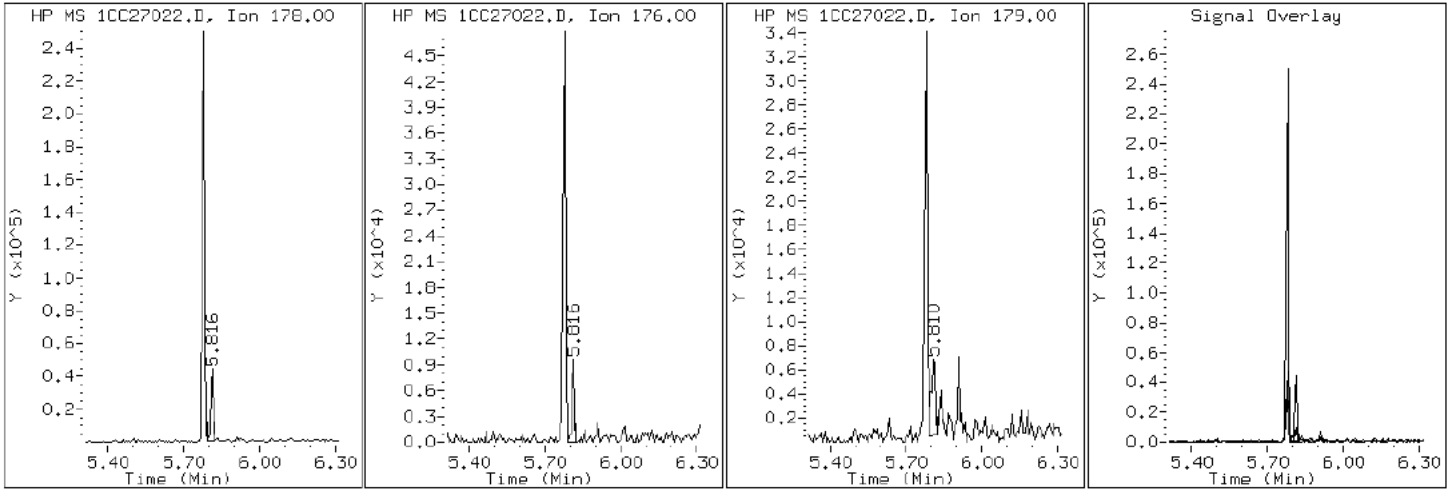
Client ID: CV0833B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-28-a

Operator: SCC

12 Anthracene



Data File: 1CC27022.D

Date: 27-MAR-2013 16:37

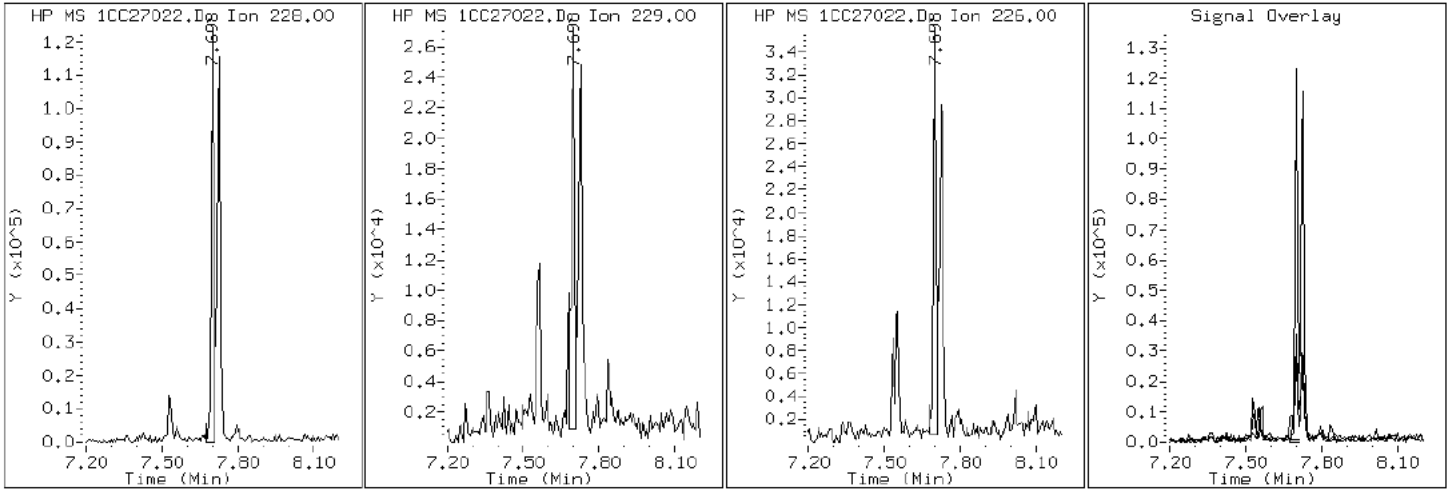
Client ID: CV0833B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-28-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC27022.D

Date: 27-MAR-2013 16:37

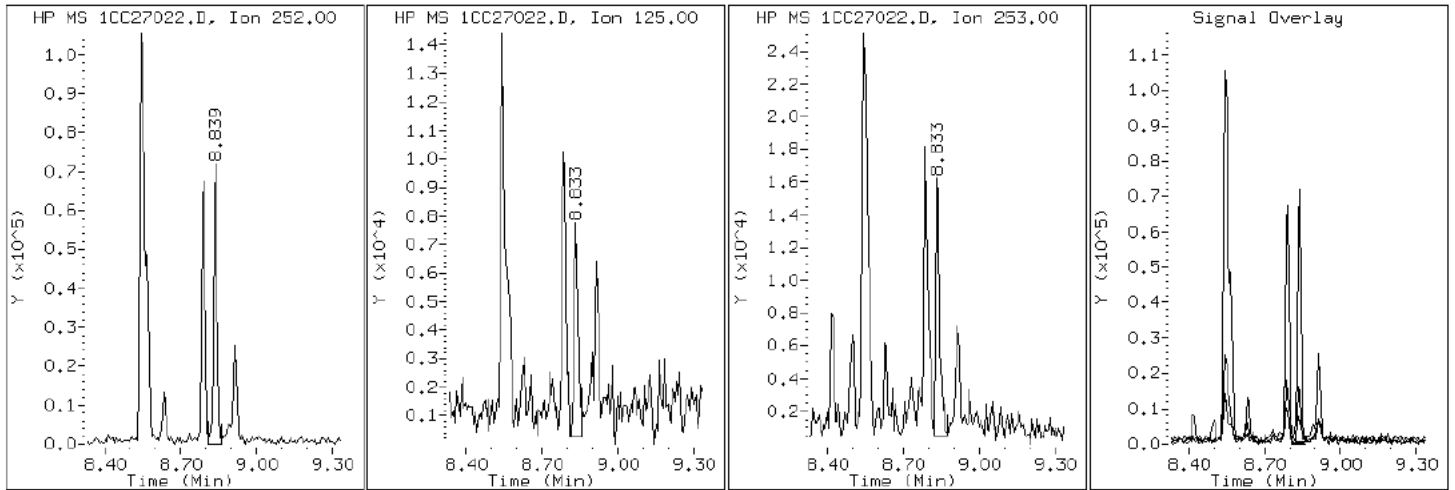
Client ID: CV0833B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-28-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC27022.D

Date: 27-MAR-2013 16:37

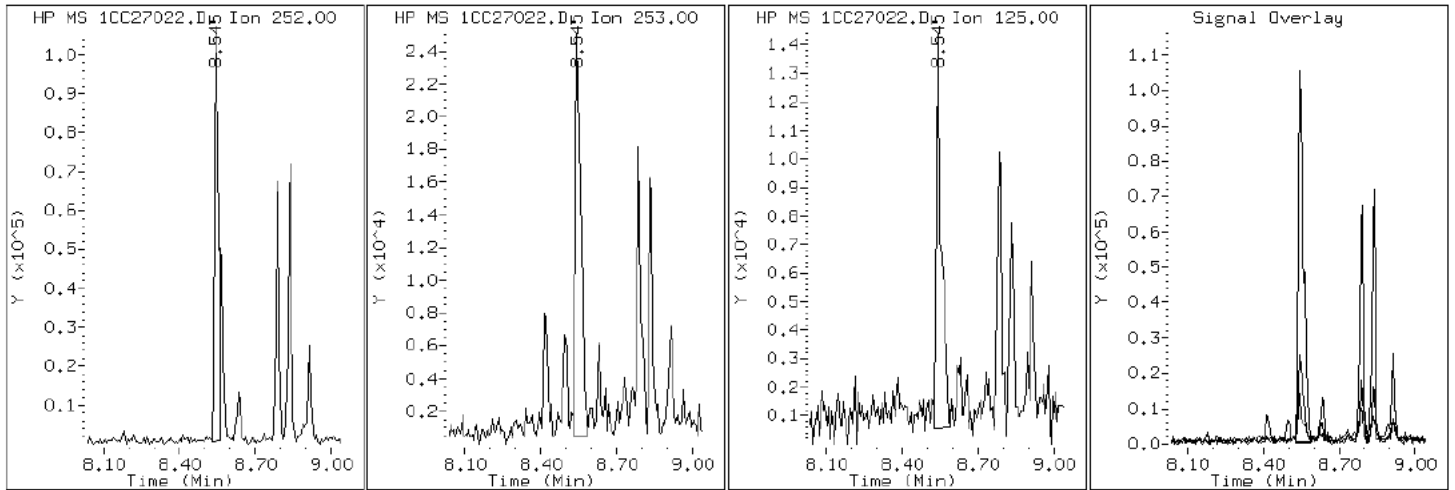
Client ID: CV0833B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-28-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC27022.D

Date: 27-MAR-2013 16:37

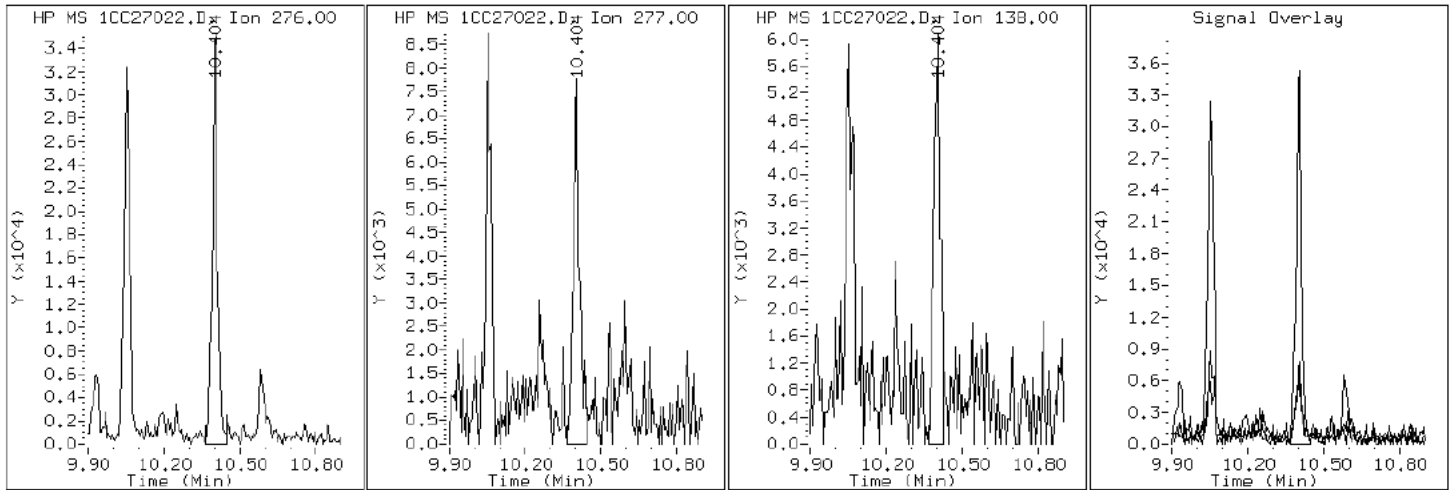
Client ID: CV0833B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-28-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC27022.D

Date: 27-MAR-2013 16:37

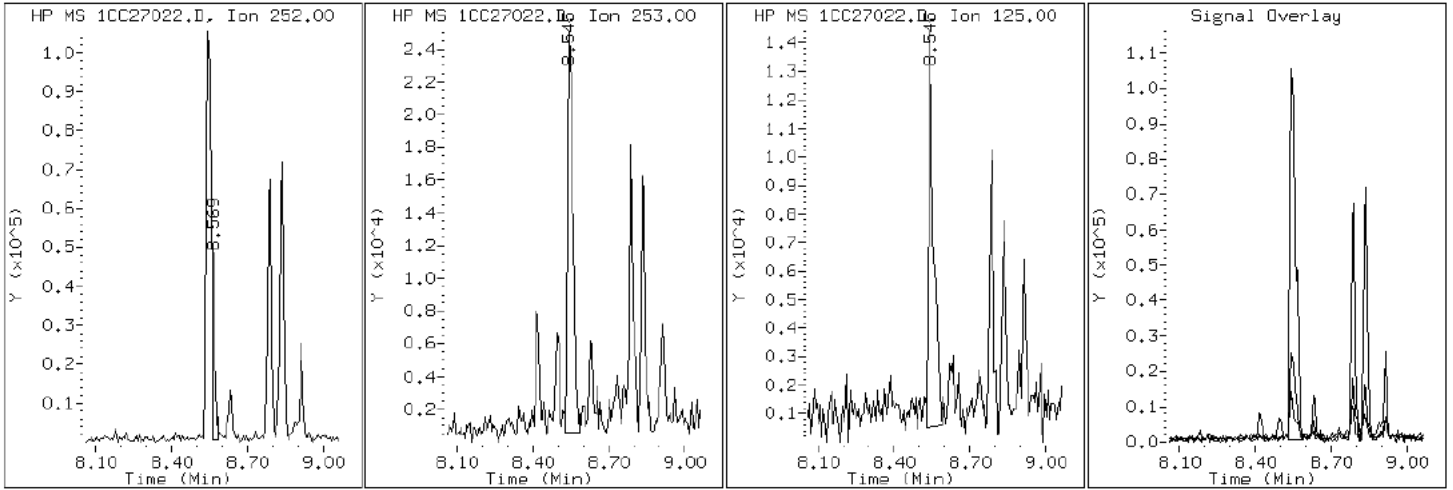
Client ID: CV0833B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-28-a

Operator: SCC

21 Benzo(k)fluoranthene





Data File: 1CC27022.D

Date: 27-MAR-2013 16:37

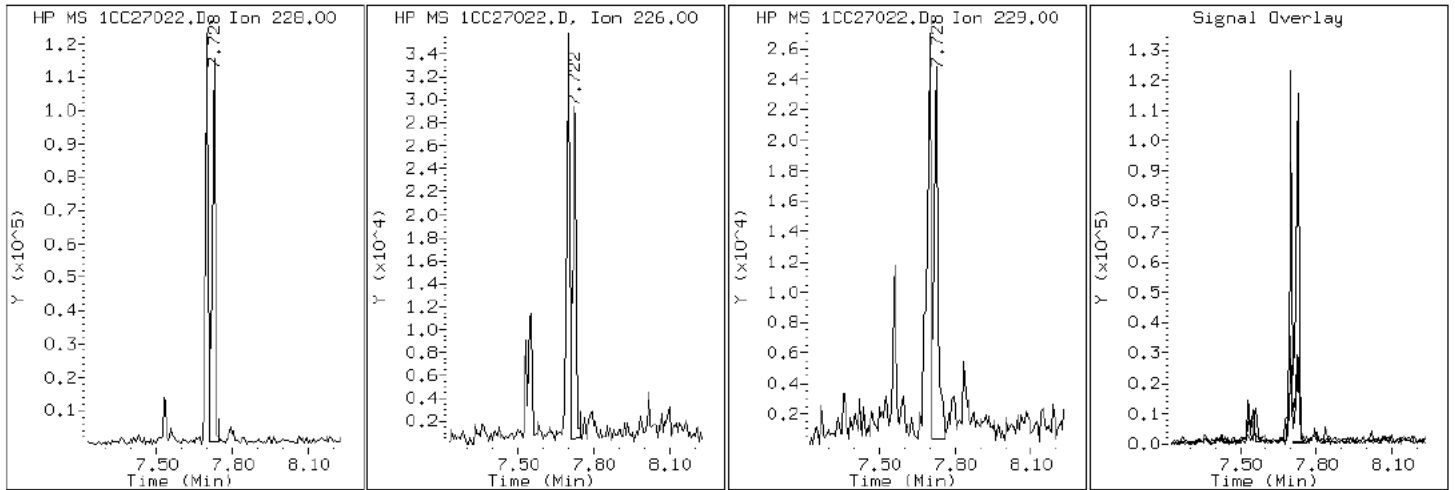
Client ID: CV0833B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-28-a

Operator: SCC

19 Chrysene



Data File: 1CC27022.D

Date: 27-MAR-2013 16:37

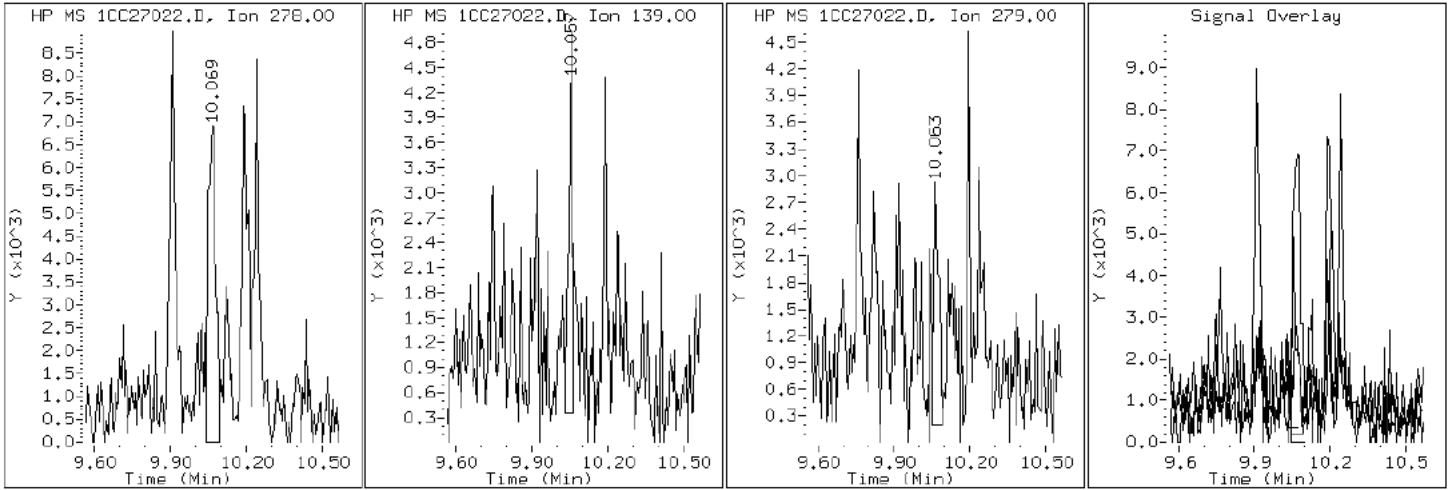
Client ID: CV0833B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-28-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC27022.D

Date: 27-MAR-2013 16:37

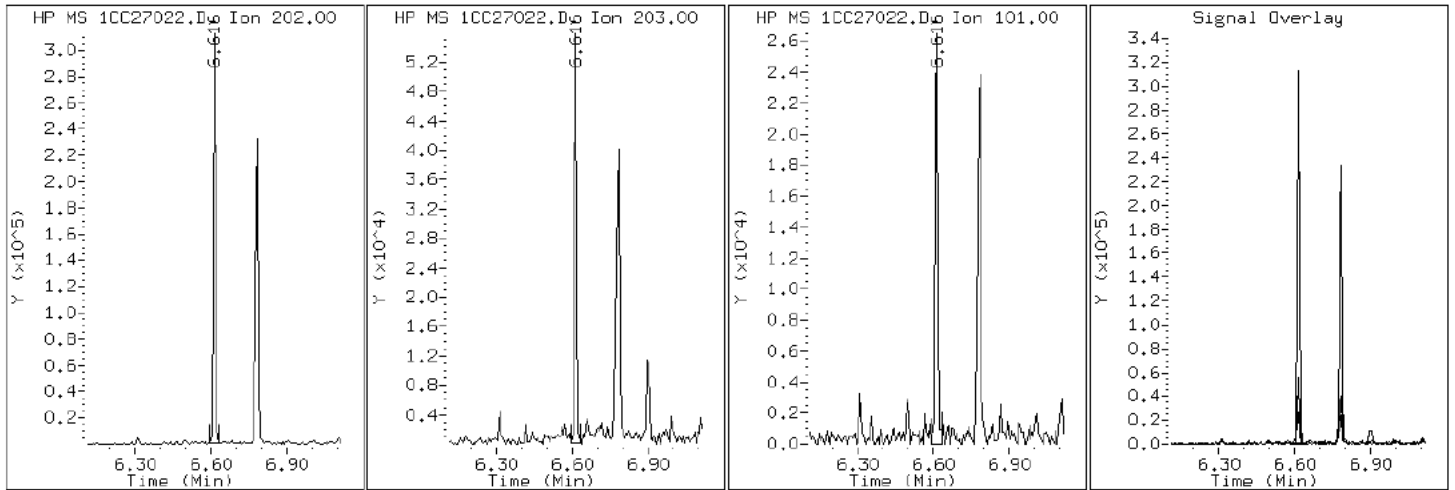
Client ID: CV0833B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-28-a

Operator: SCC

15 Fluoranthene



Data File: 1CC27022.D

Date: 27-MAR-2013 16:37

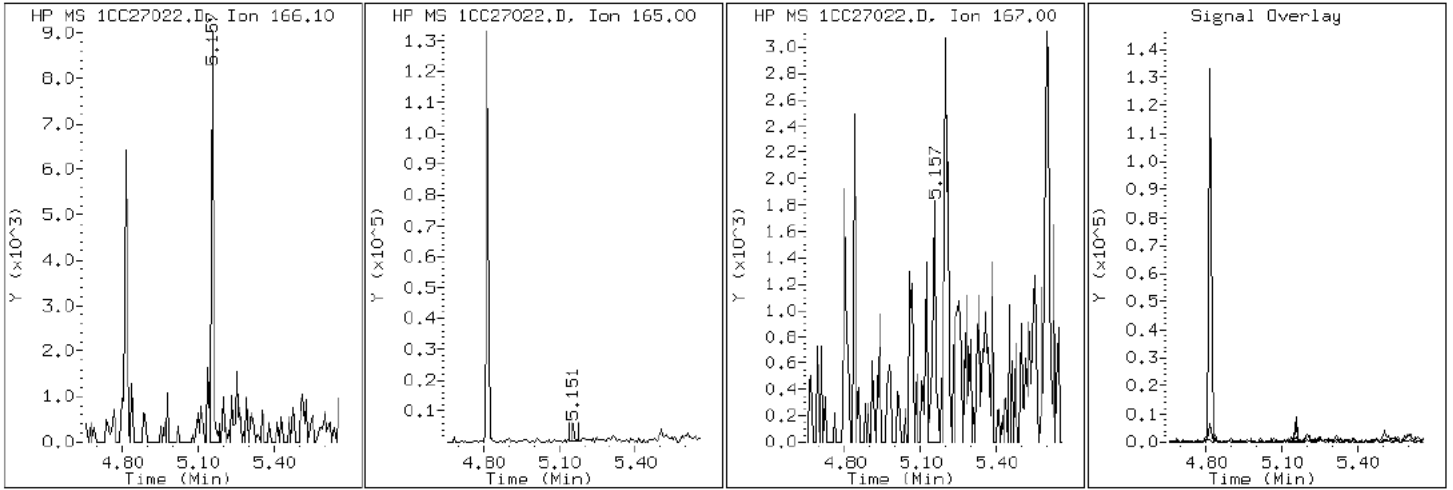
Client ID: CV0833B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-28-a

Operator: SCC

9 Fluorene



Data File: 1CC27022.D

Date: 27-MAR-2013 16:37

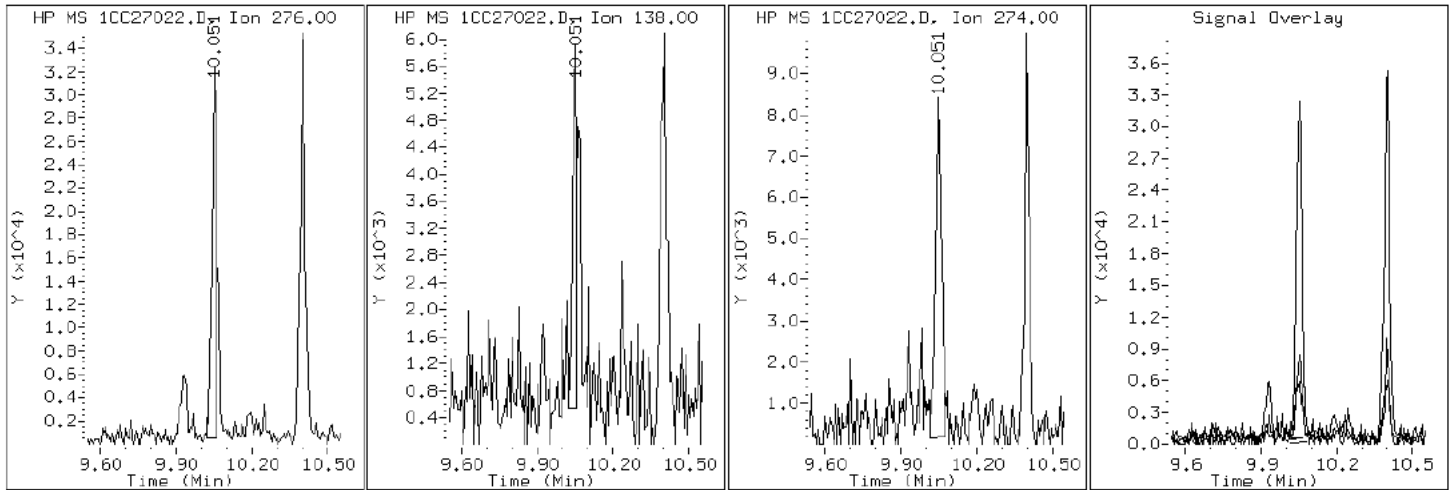
Client ID: CV0833B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-28-a

Operator: SCC

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



Data File: 1CC27022.D

Date: 27-MAR-2013 16:37

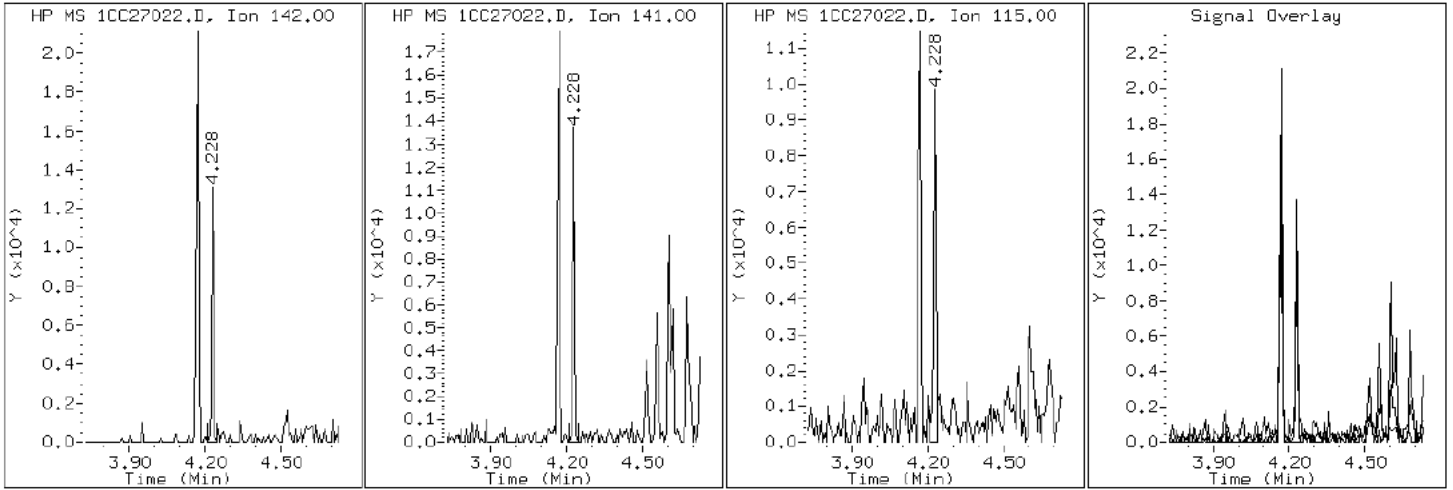
Client ID: CV0833B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-28-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC27022.D

Date: 27-MAR-2013 16:37

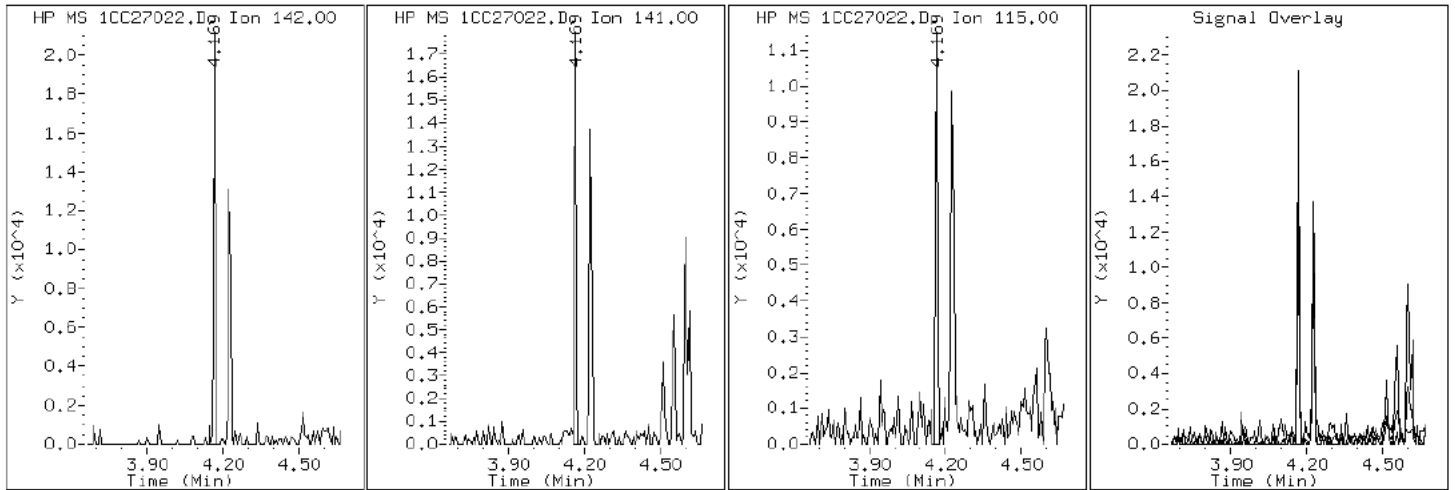
Client ID: CV0833B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-28-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC27022.D

Date: 27-MAR-2013 16:37

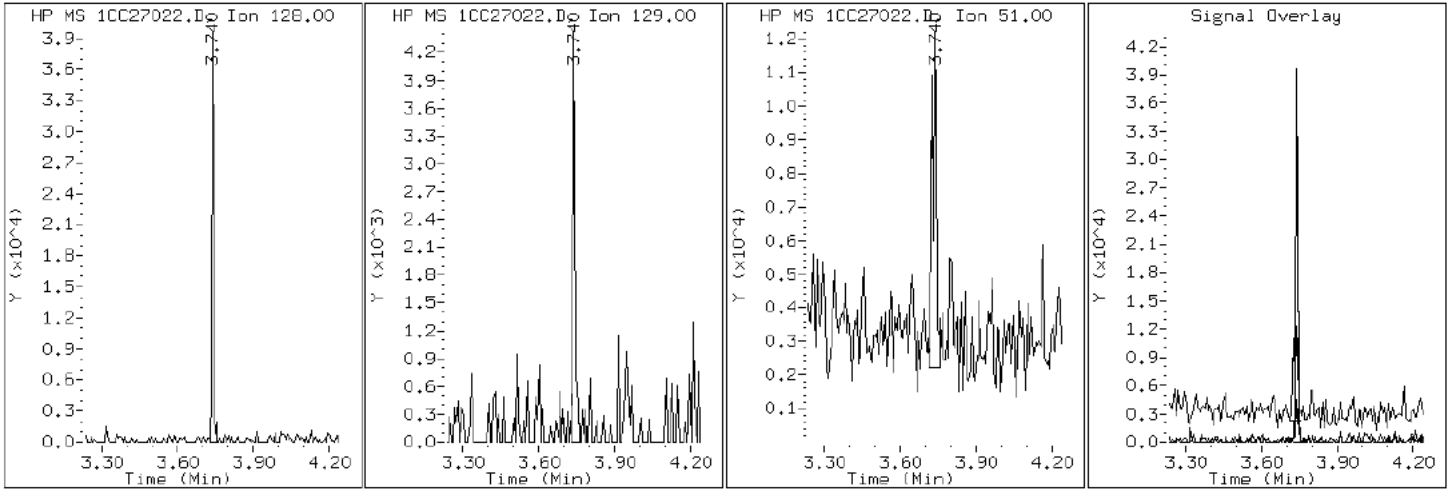
Client ID: CV0833B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-28-a

Operator: SCC

2 Naphthalene





Data File: 1CC27022.D

Date: 27-MAR-2013 16:37

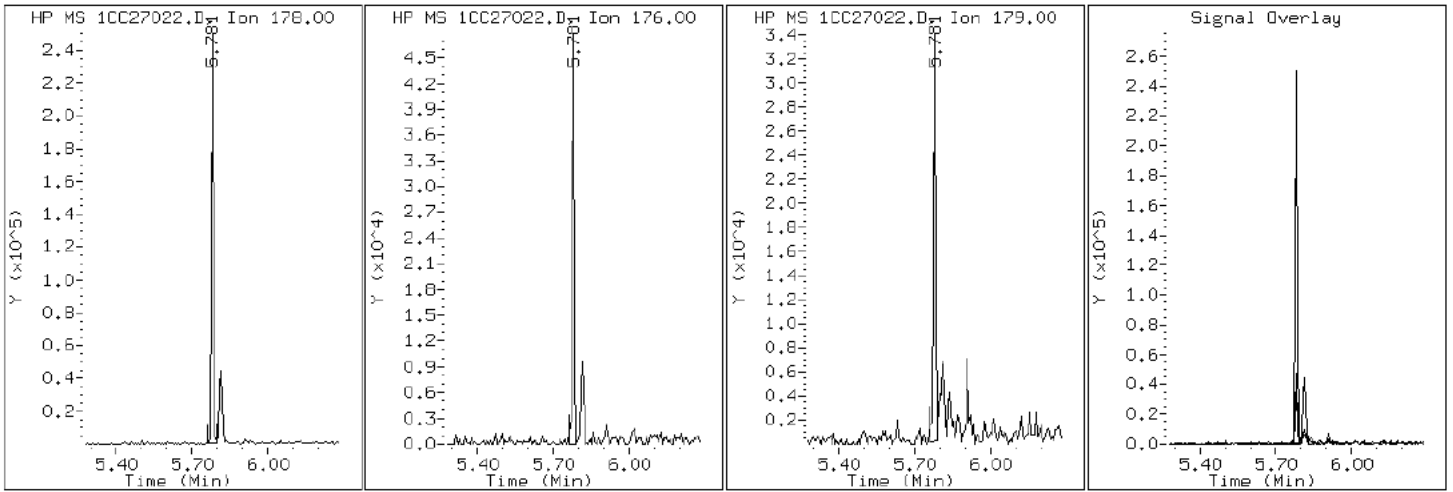
Client ID: CV0833B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-28-a

Operator: SCC

11 Phenanthrene



Data File: 1CC27022.D

Date: 27-MAR-2013 16:37

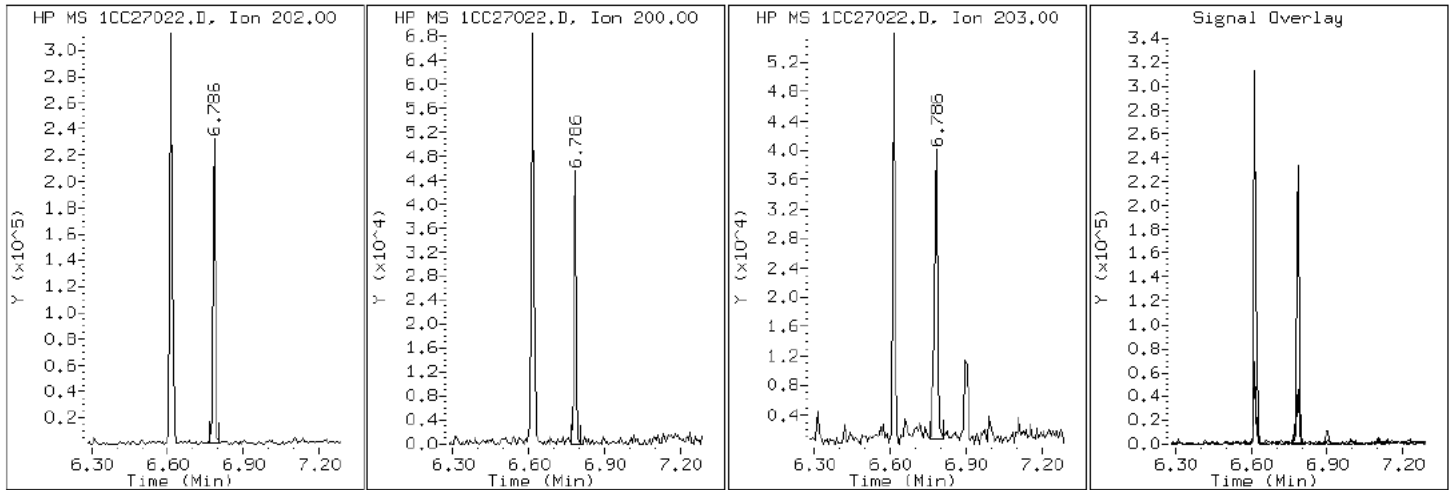
Client ID: CV0833B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-28-a

Operator: SCC

16 Pyrene

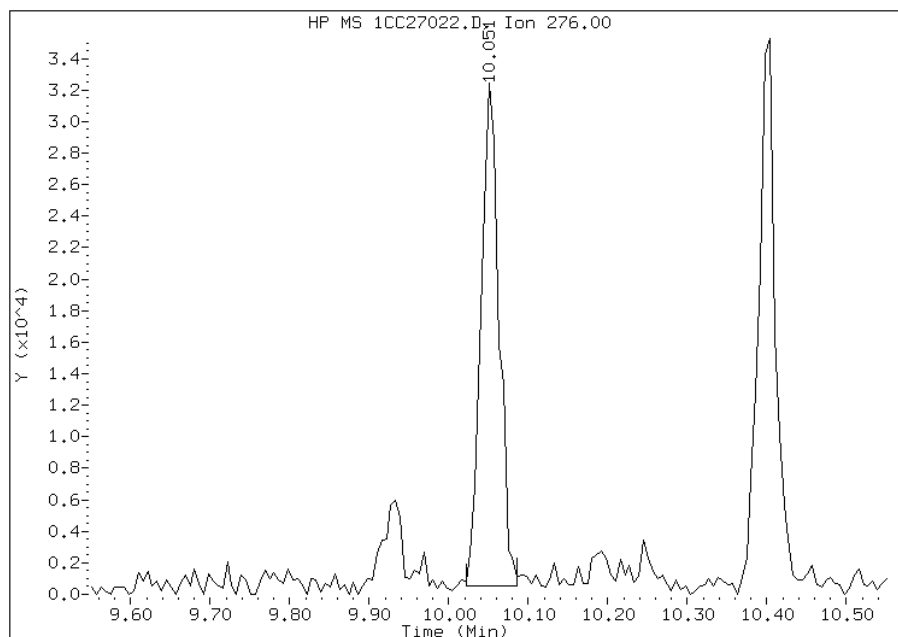


# Manual Integration Report

Data File: 1CC27022.D  
Inj. Date and Time: 27-MAR-2013 16:37  
Instrument ID: BSMC5973.i  
Client ID: CV0833B-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/01/2013

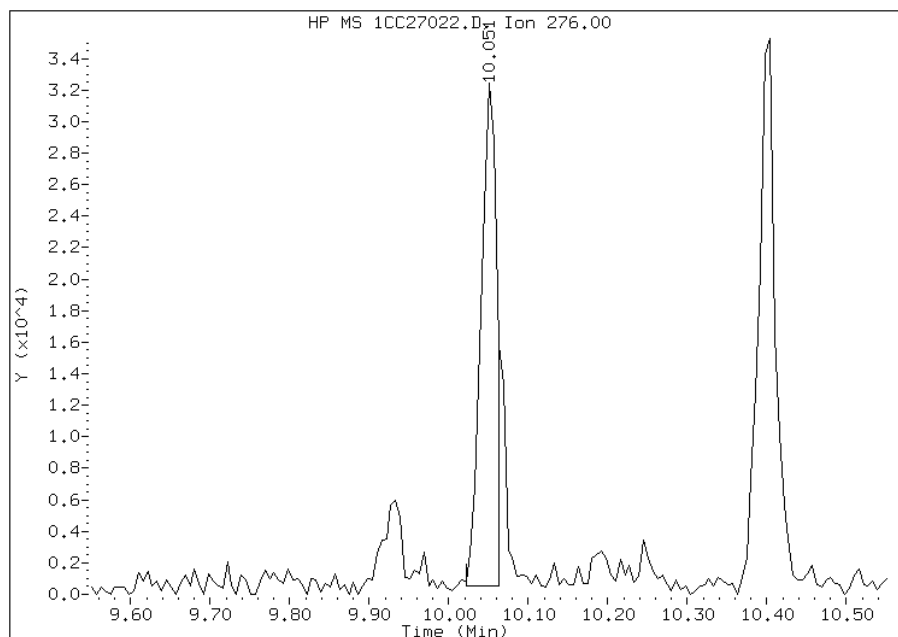
## Processing Integration Results

RT: 10.05  
Response: 49628  
Amount: 2  
Conc: 609



## Manual Integration Results

RT: 10.05  
Response: 43515  
Amount: 2  
Conc: 534



Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:25  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Client Sample ID: CV0876A-CS-SP Lab Sample ID: 680-88592-29  
 Matrix: Solid Lab File ID: 1CC27023.D  
 Analysis Method: 8270C LL Date Collected: 03/20/2013 13:30  
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07  
 Sample wt/vol: 15.06(g) Date Analyzed: 03/27/2013 16:55  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 41.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	170	U	170	34
208-96-8	Acenaphthylene	14	J	67	8.4
120-12-7	Anthracene	30		14	7.1
56-55-3	Benzo[a]anthracene	110		13	6.6
50-32-8	Benzo[a]pyrene	90		18	8.8
205-99-2	Benzo[b]fluoranthene	140		21	10
191-24-2	Benzo[g,h,i]perylene	70		34	7.4
207-08-9	Benzo[k]fluoranthene	51		13	6.1
218-01-9	Chrysene	100		15	7.6
53-70-3	Dibenz(a,h)anthracene	24	J	34	6.9
206-44-0	Fluoranthene	160		34	6.7
86-73-7	Fluorene	18	J	34	6.9
193-39-5	Indeno[1,2,3-cd]pyrene	62		34	12
90-12-0	1-Methylnaphthalene	69		67	7.4
91-57-6	2-Methylnaphthalene	85		67	12
91-20-3	Naphthalene	77		67	7.4
85-01-8	Phenanthrene	130		13	6.6
129-00-0	Pyrene	170		34	6.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	75		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27023.D  
 Lab Smp Id: 680-88592-A-29-A Client Smp ID: CV0876A-CS-SP  
 Inj Date : 27-MAR-2013 16:55  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88592-a-29-a  
 Misc Info : 680-88592-A-29-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m  
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
 Als bottle: 23  
 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	40.950	% 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		3.727	3.727	(1.000)	760272	40.0000		
* 6 Acenaphthene-d10	164		4.816	4.815	(1.000)	578106	40.0000		
* 10 Phenanthrene-d10	188		5.763	5.762	(1.000)	1091967	40.0000		
\$ 14 o-Terphenyl	230		6.015	6.015	(1.044)	124092	7.52673	846.3756	
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1154989	40.0000		
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1117297	40.0000		
2 Naphthalene	128		3.739	3.739	(1.003)	13506	0.68237	76.7321	
3 2-Methylnaphthalene	142		4.169	4.168	(1.118)	10009	0.75811	85.2485	
4 1-Methylnaphthalene	142		4.227	4.227	(1.134)	7367	0.61267	68.8941	
5 Acenaphthylene	152		4.727	4.727	(0.982)	2886	0.12382	13.9238	
9 Fluorene	166		5.157	5.157	(1.071)	2987	0.16303	18.3331(Q)	
11 Phenanthrene	178		5.780	5.780	(1.003)	37014	1.17226	131.8200	
12 Anthracene	178		5.810	5.815	(1.008)	8161	0.26428	29.7182	
13 Carbazole	167		5.921	5.921	(1.028)	4778	0.17406	19.5730	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		----	-----	-----	-----	-----	-----
15 Fluoranthene	202		6.615	6.615	(1.148)	49548	1.43292	161.1311
16 Pyrene	202		6.786	6.786	(0.881)	47078	1.51675	170.5578
17 Benzo(a)anthracene	228		7.698	7.698	(0.999)	31954	0.95857	107.7900
19 Chrysene	228		7.721	7.727	(1.002)	30966	0.92823	104.3788
20 Benzo(b)fluoranthene	252		8.539	8.539	(0.961)	37475	1.28343	144.3207(M)
21 Benzo(k)fluoranthene	252		8.557	8.562	(0.963)	13631	0.45507	51.1720(QM)
22 Benzo(a)pyrene	252		8.833	8.833	(0.994)	22817	0.80449	90.4648
24 Indeno(1,2,3-cd)pyrene	276		10.039	10.050	(1.130)	14787	0.55422	62.3221(M)
25 Dibenzo(a,h)anthracene	278		10.068	10.068	(1.133)	5582	0.21389	24.0519(M)
26 Benzo(g,h,i)perylene	276		10.398	10.397	(1.170)	17449	0.62519	70.3017(M)

QC Flag Legend

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

Data File: 1CC27023.D

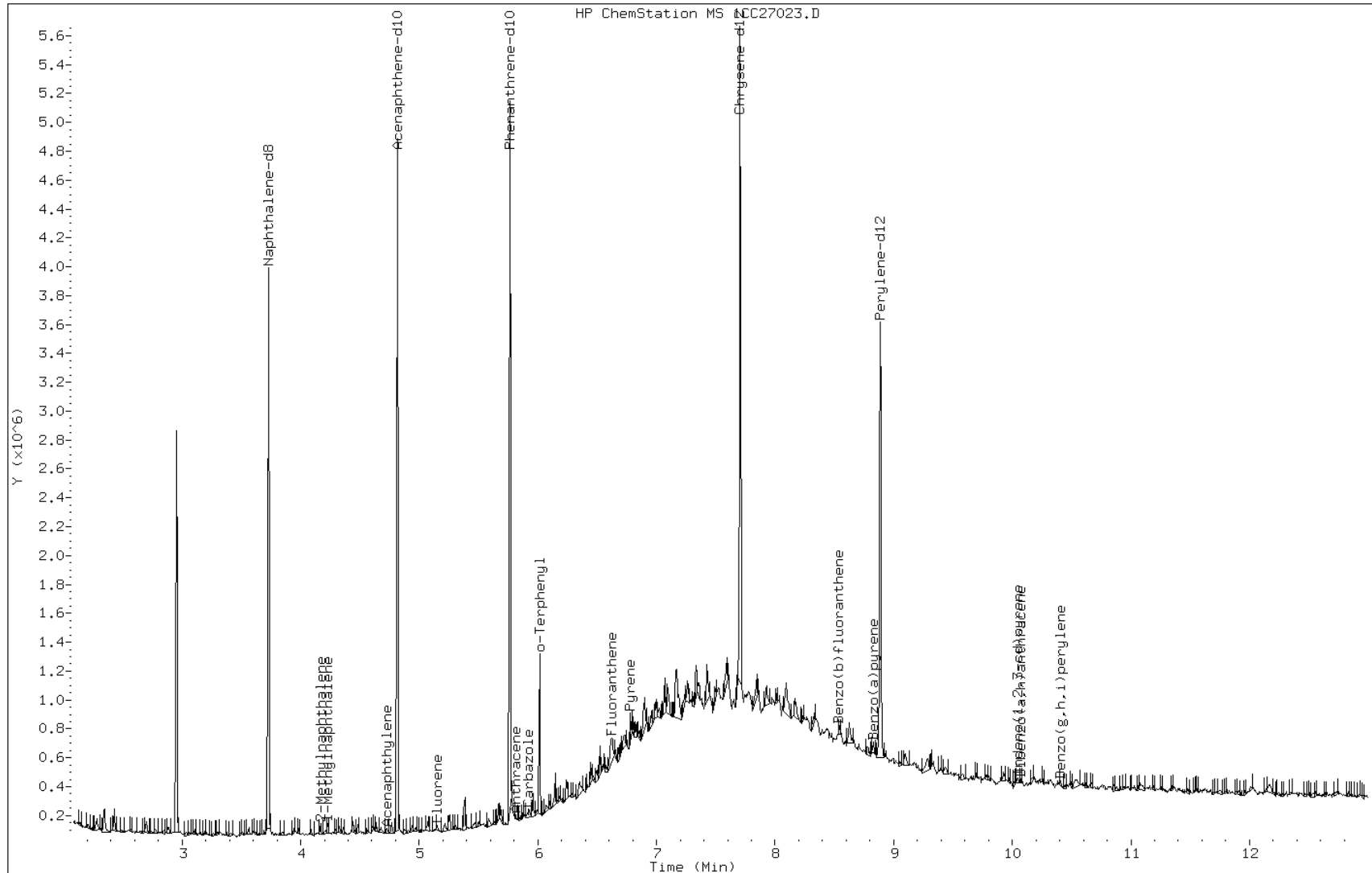
Date: 27-MAR-2013 16:55

Client ID: CV0876A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-29-a

Operator: SCC



Data File: 1CC27023.D

Date: 27-MAR-2013 16:55

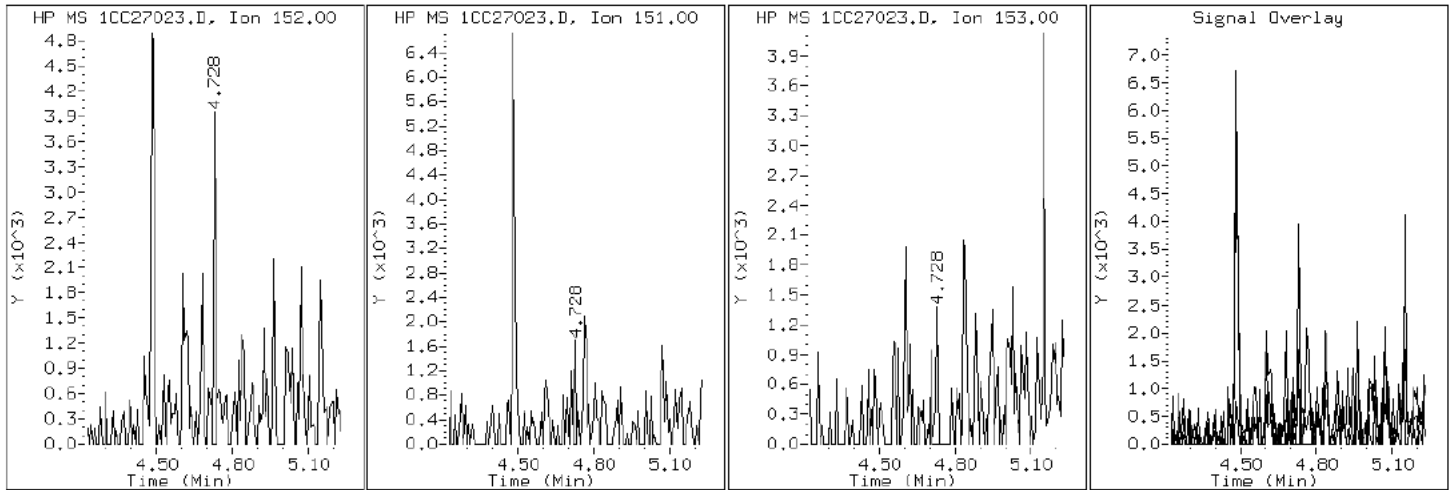
Client ID: CV0876A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-29-a

Operator: SCC

5 Acenaphthylene





Data File: 1CC27023.D

Date: 27-MAR-2013 16:55

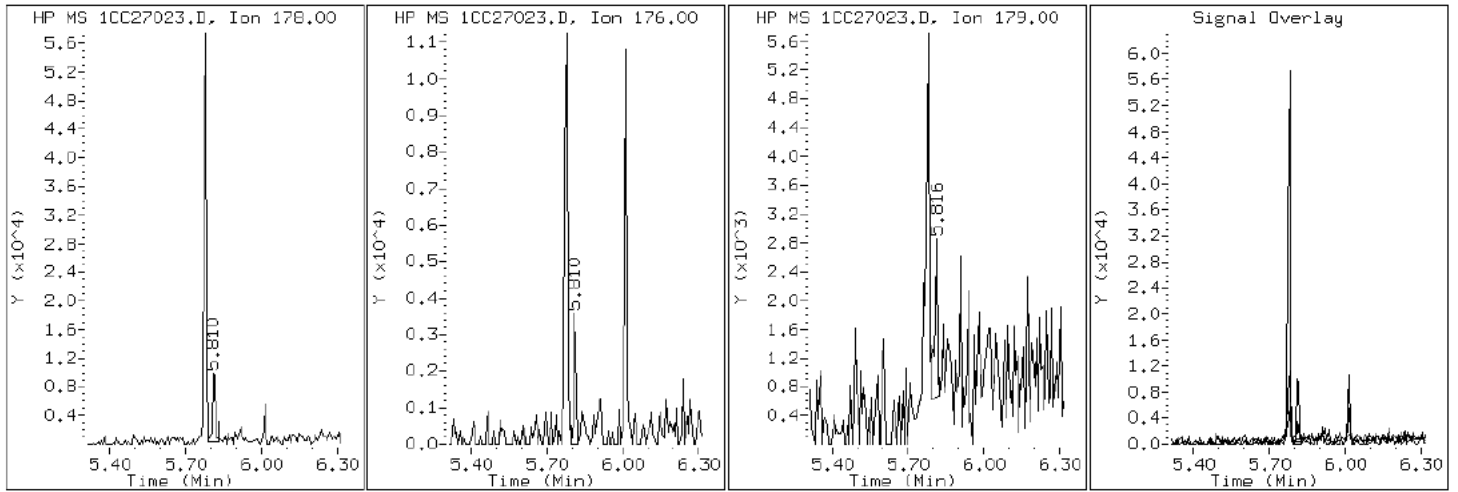
Client ID: CV0876A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-29-a

Operator: SCC

12 Anthracene



Data File: 1CC27023.D

Date: 27-MAR-2013 16:55

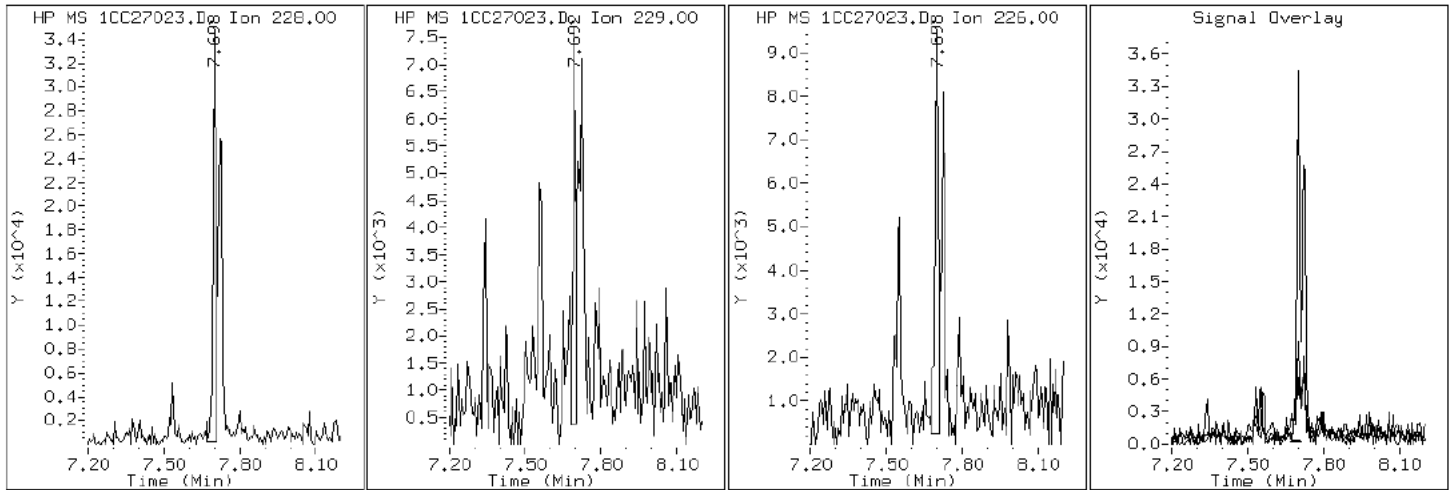
Client ID: CV0876A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-29-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC27023.D

Date: 27-MAR-2013 16:55

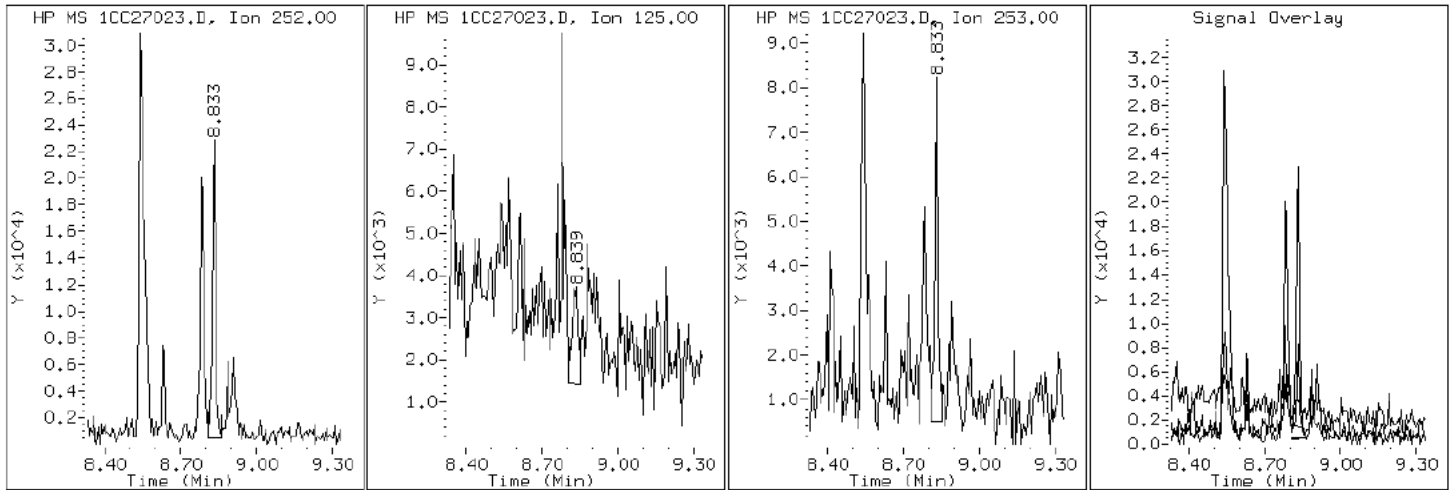
Client ID: CV0876A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-29-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC27023.D

Date: 27-MAR-2013 16:55

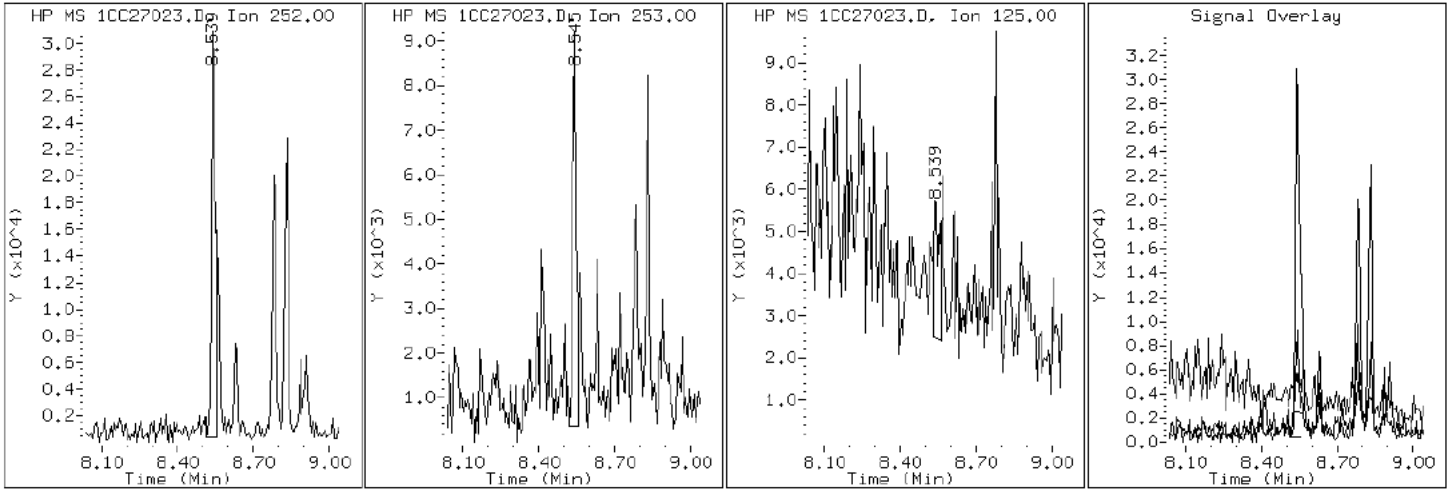
Client ID: CV0876A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-29-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC27023.D

Date: 27-MAR-2013 16:55

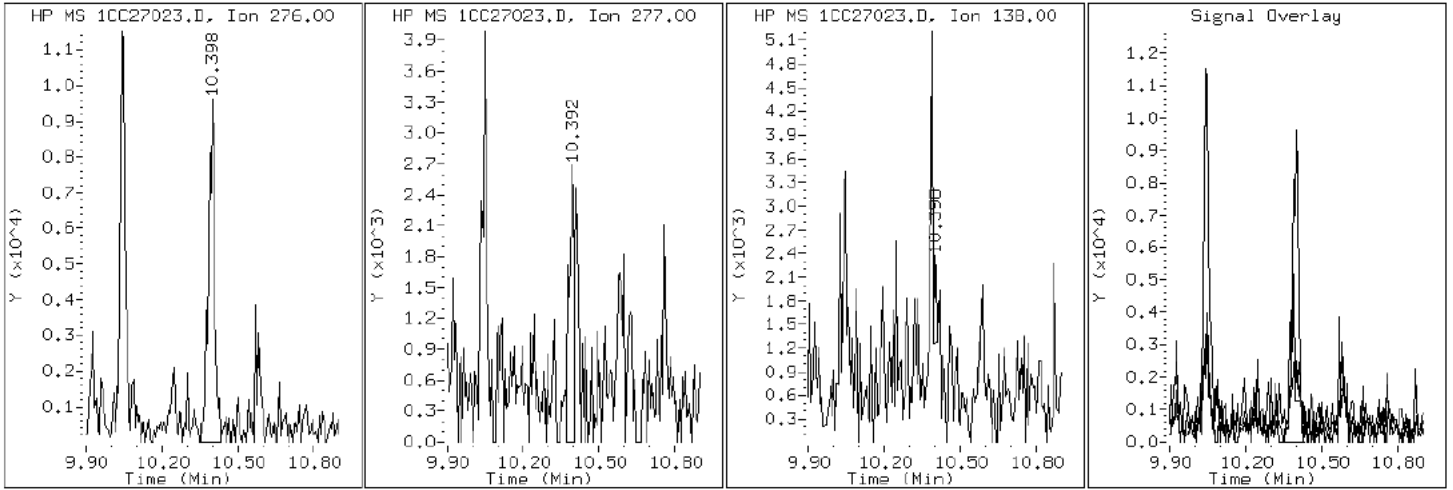
Client ID: CV0876A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-29-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC27023.D

Date: 27-MAR-2013 16:55

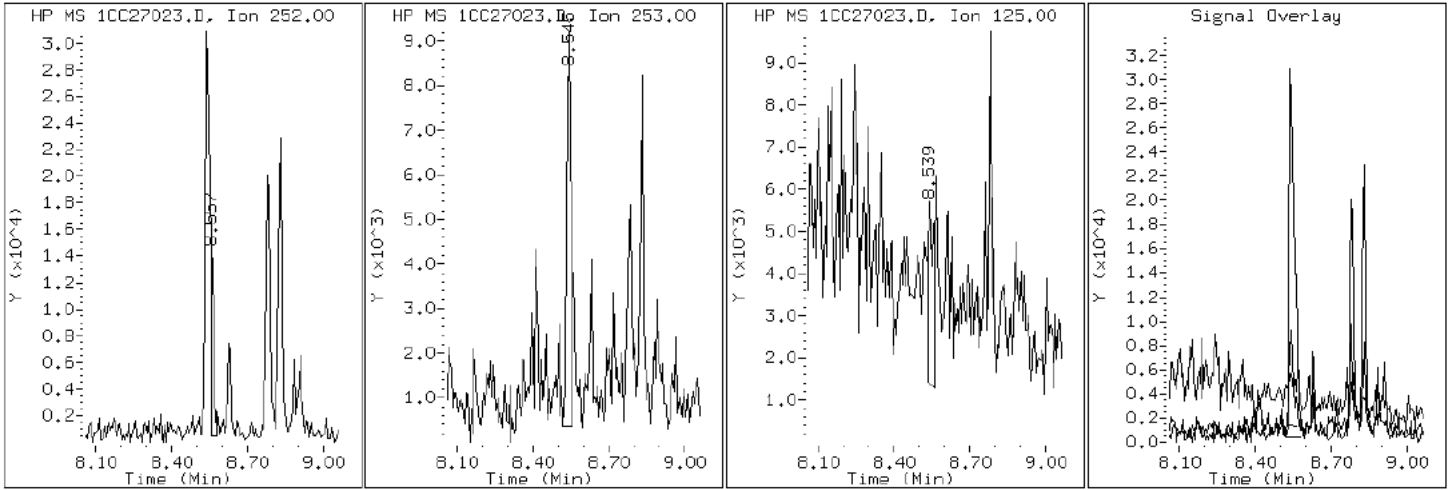
Client ID: CV0876A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-29-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC27023.D

Date: 27-MAR-2013 16:55

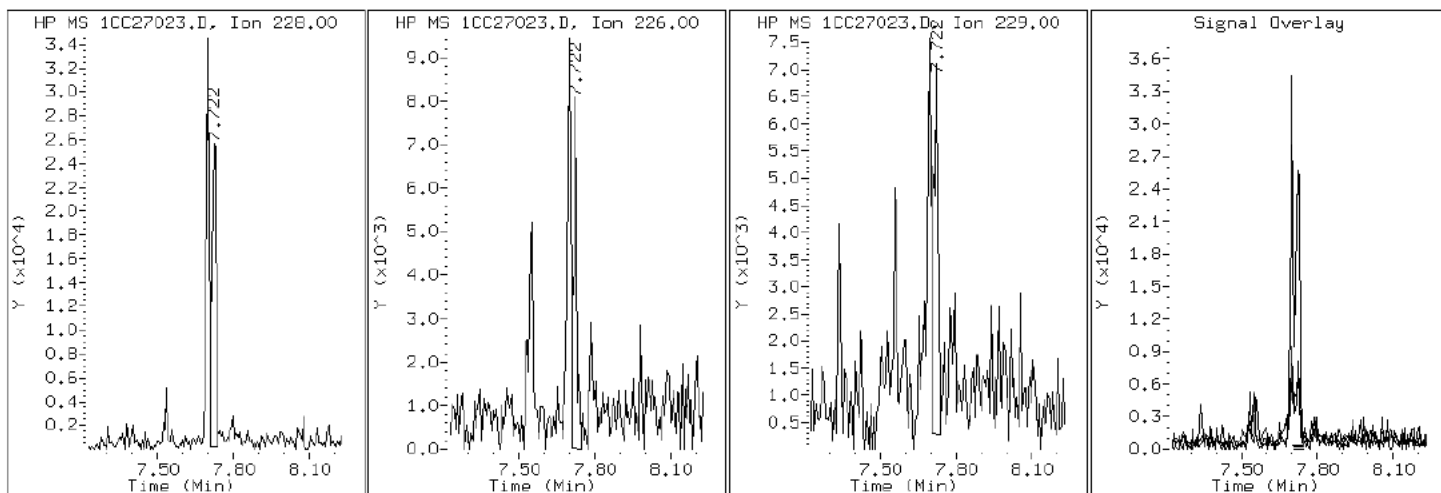
Client ID: CV0876A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-29-a

Operator: SCC

19 Chrysene



Data File: 1CC27023.D

Date: 27-MAR-2013 16:55

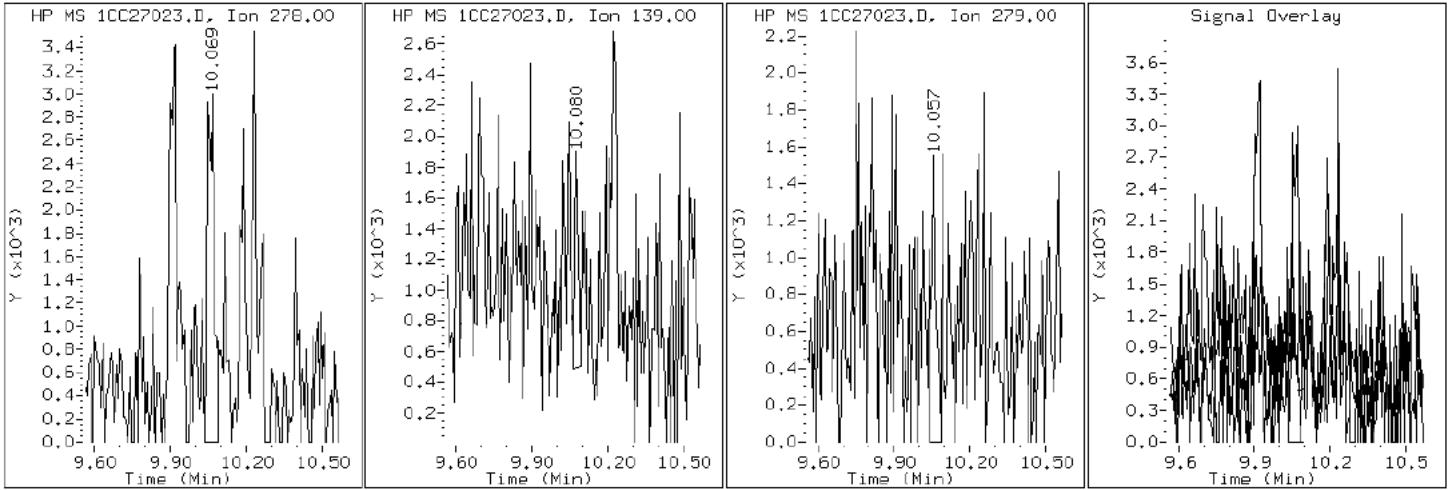
Client ID: CV0876A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-29-a

Operator: SCC

25 Dibenzo (a,h) anthracene





Data File: 1CC27023.D

Date: 27-MAR-2013 16:55

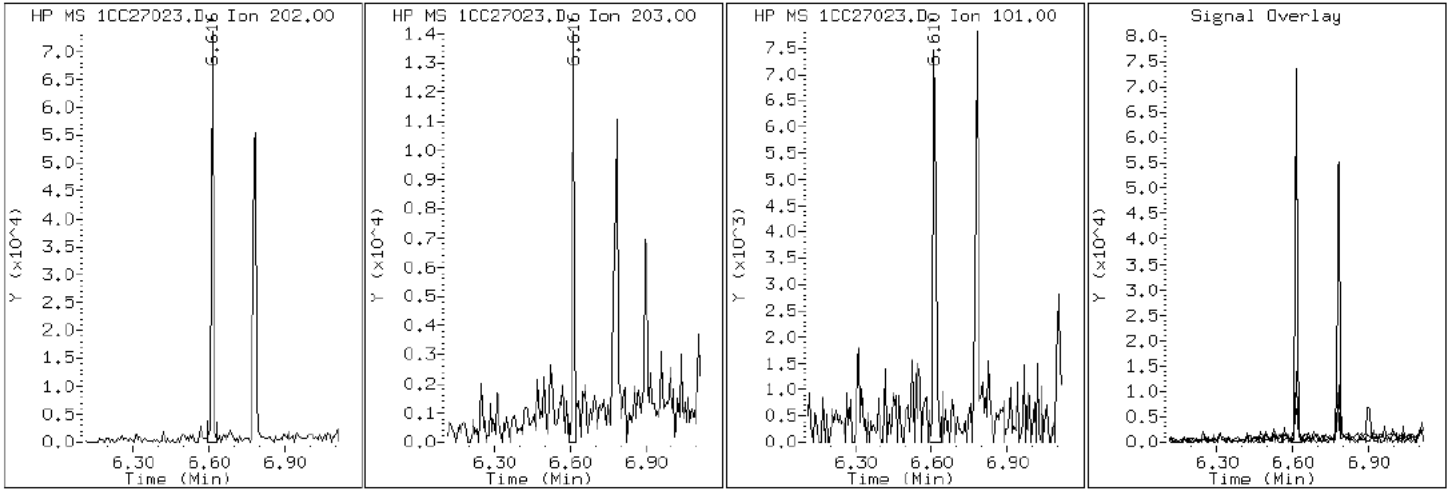
Client ID: CV0876A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-29-a

Operator: SCC

15 Fluoranthene



Data File: 1CC27023.D

Date: 27-MAR-2013 16:55

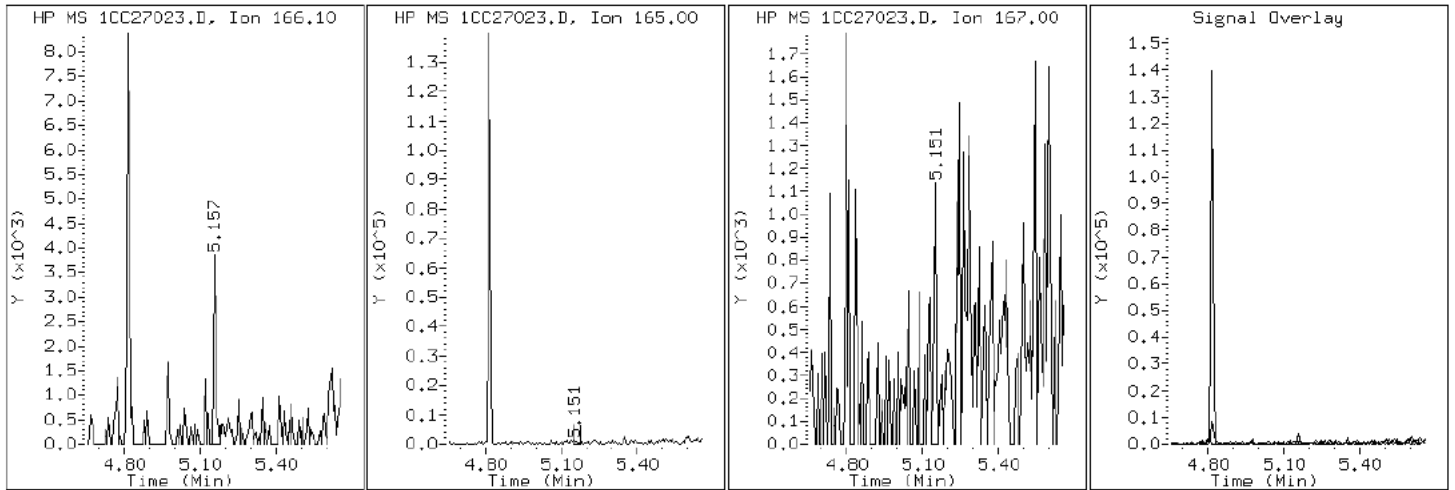
Client ID: CV0876A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-29-a

Operator: SCC

9 Fluorene



Data File: 1CC27023.D

Date: 27-MAR-2013 16:55

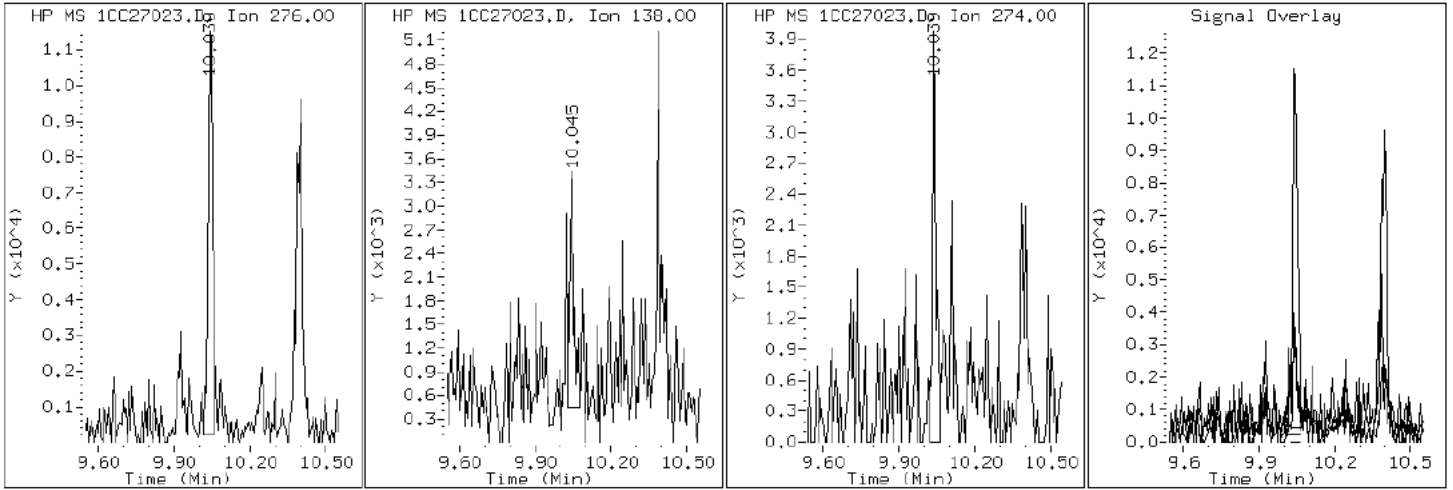
Client ID: CV0876A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-29-a

Operator: SCC

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



Data File: 1CC27023.D

Date: 27-MAR-2013 16:55

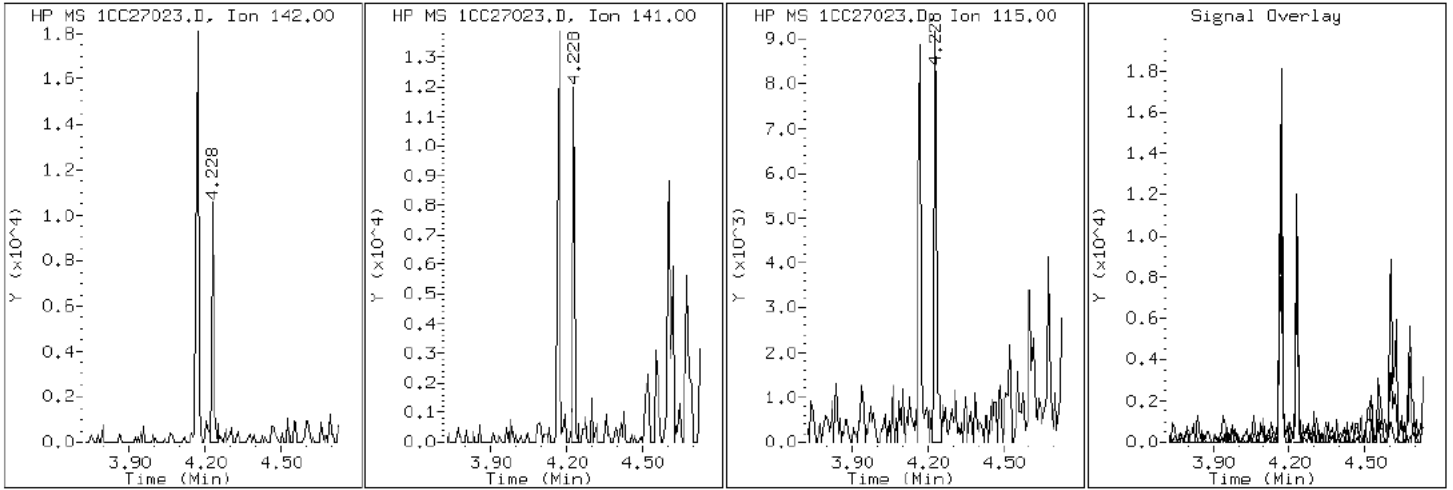
Client ID: CV0876A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-29-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC27023.D

Date: 27-MAR-2013 16:55

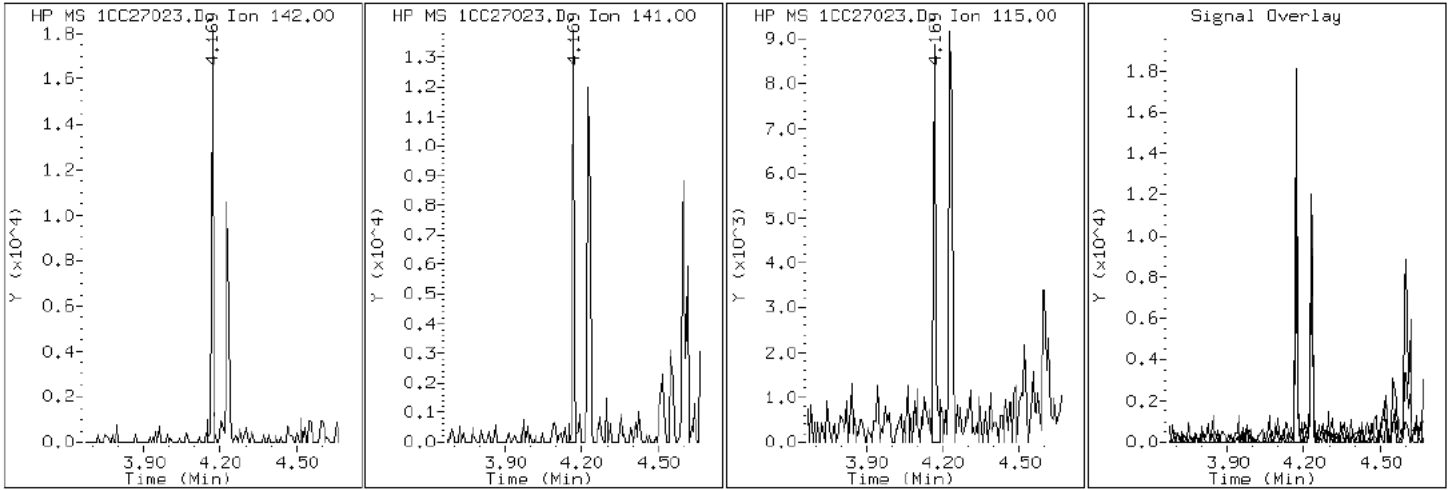
Client ID: CV0876A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-29-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC27023.D

Date: 27-MAR-2013 16:55

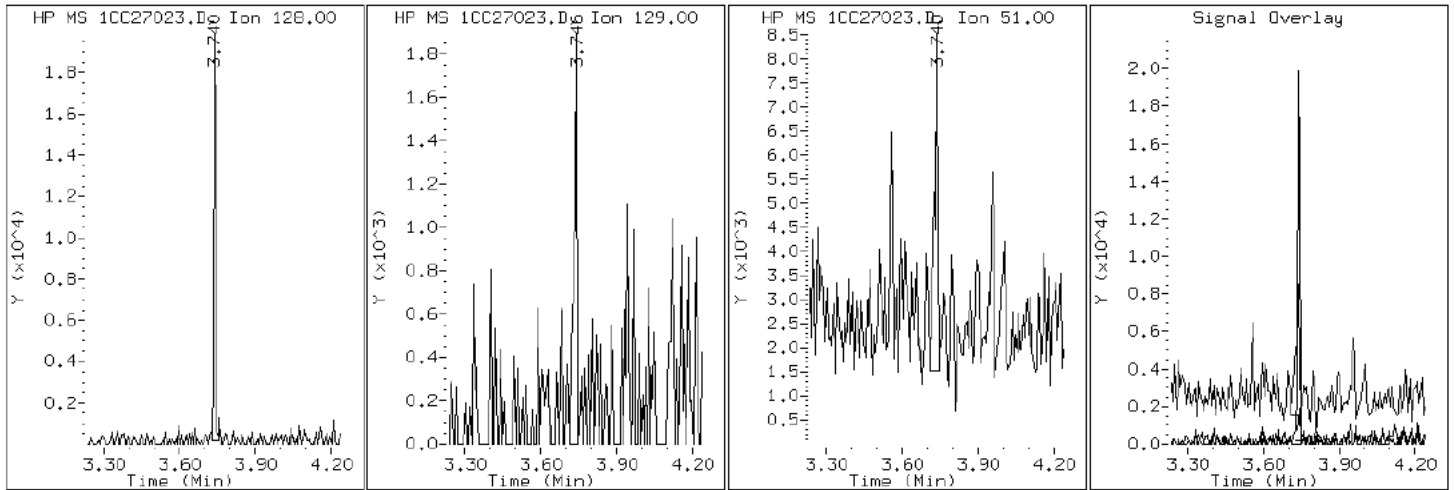
Client ID: CV0876A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-29-a

Operator: SCC

2 Naphthalene



Data File: 1CC27023.D

Date: 27-MAR-2013 16:55

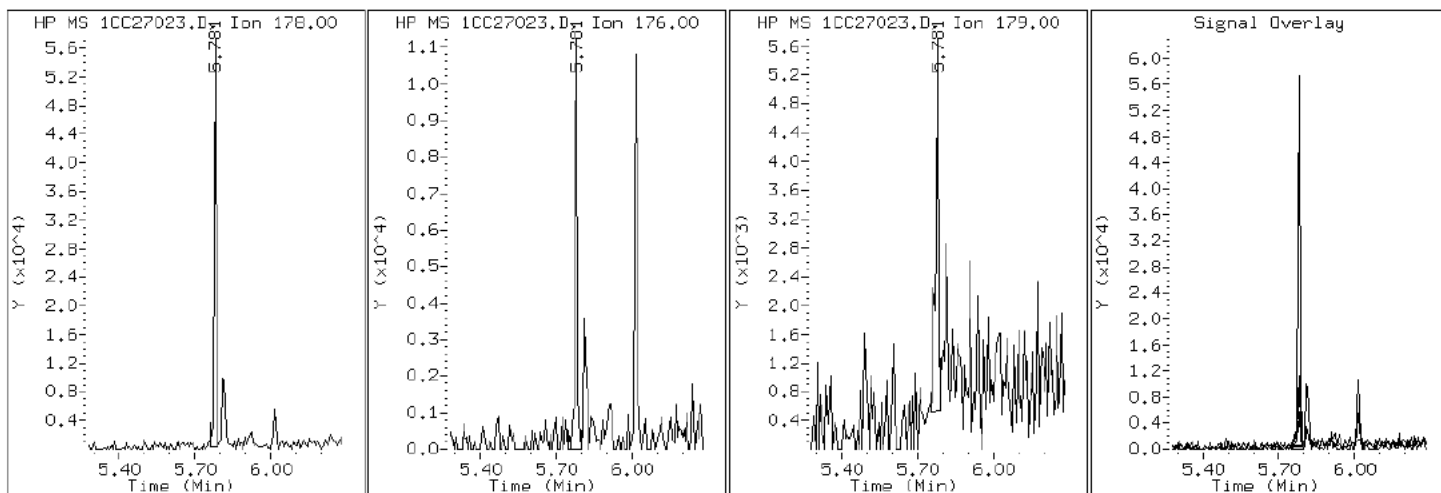
Client ID: CV0876A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-29-a

Operator: SCC

11 Phenanthrene



Data File: 1CC27023.D

Date: 27-MAR-2013 16:55

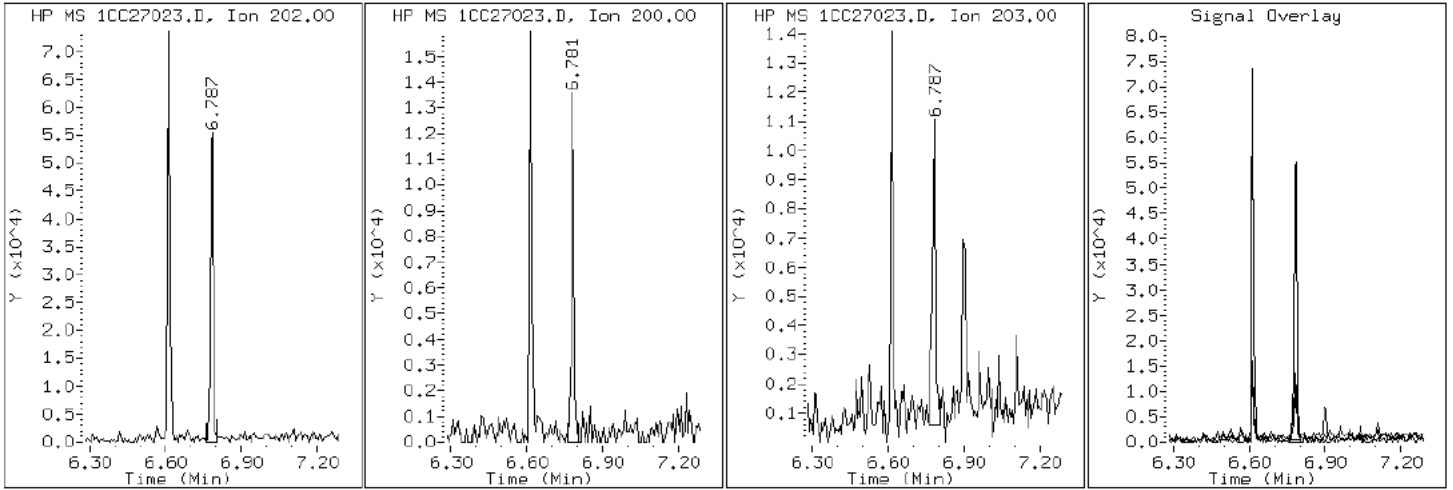
Client ID: CV0876A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-29-a

Operator: SCC

16 Pyrene



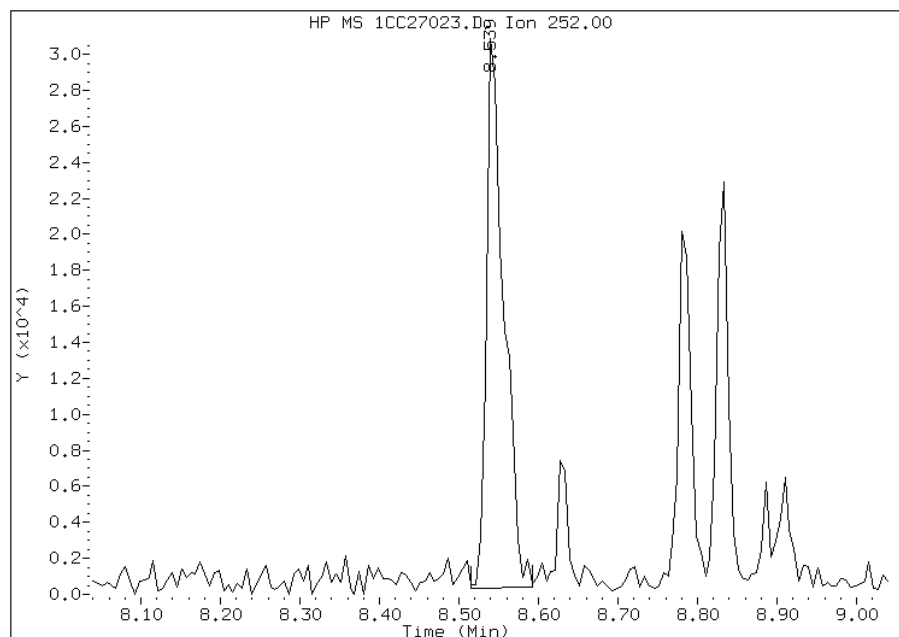


# Manual Integration Report

Data File: 1CC27023.D  
Inj. Date and Time: 27-MAR-2013 16:55  
Instrument ID: BSMC5973.i  
Client ID: CV0876A-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/01/2013

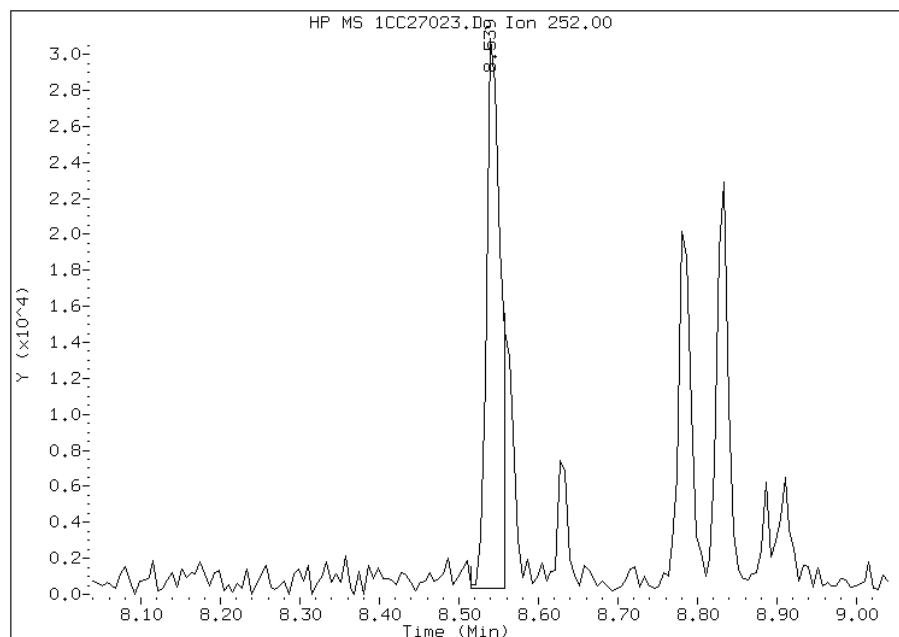
## Processing Integration Results

RT: 8.54  
Response: 46842  
Amount: 2  
Conc: 180



## Manual Integration Results

RT: 8.54  
Response: 37475  
Amount: 1  
Conc: 144



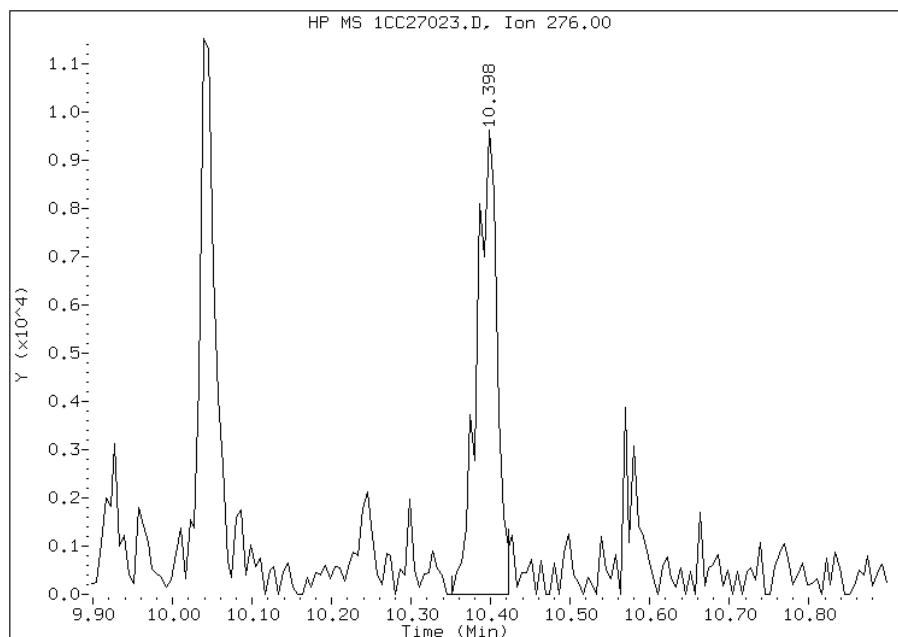
Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:26  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CC27023.D  
Inj. Date and Time: 27-MAR-2013 16:55  
Instrument ID: BSMC5973.i  
Client ID: CV0876A-CS-SP  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/01/2013

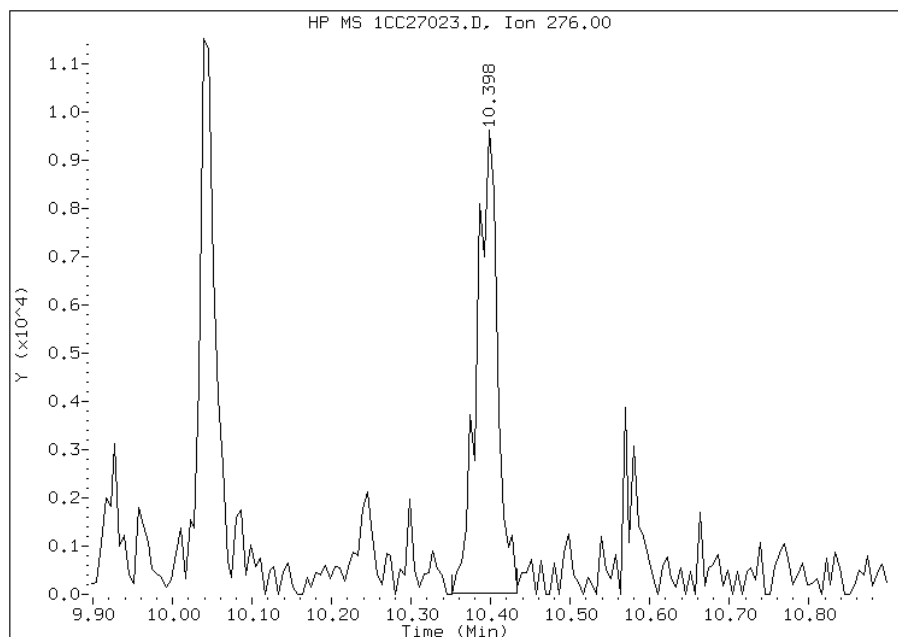
## Processing Integration Results

RT: 10.40  
Response: 17034  
Amount: 1  
Conc: 69



## Manual Integration Results

RT: 10.40  
Response: 17449  
Amount: 1  
Conc: 70



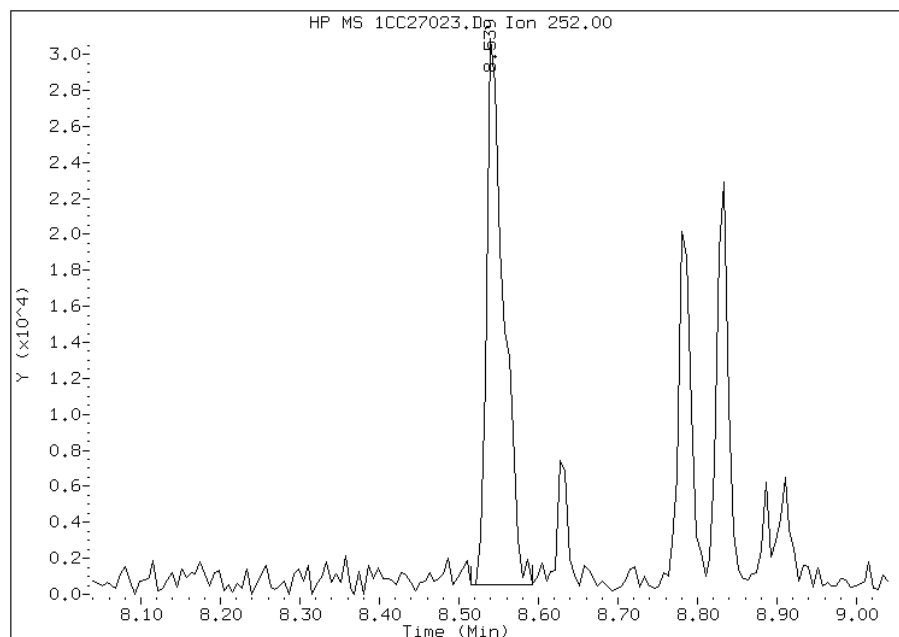
Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:26  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CC27023.D  
Inj. Date and Time: 27-MAR-2013 16:55  
Instrument ID: BSMC5973.i  
Client ID: CV0876A-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/01/2013

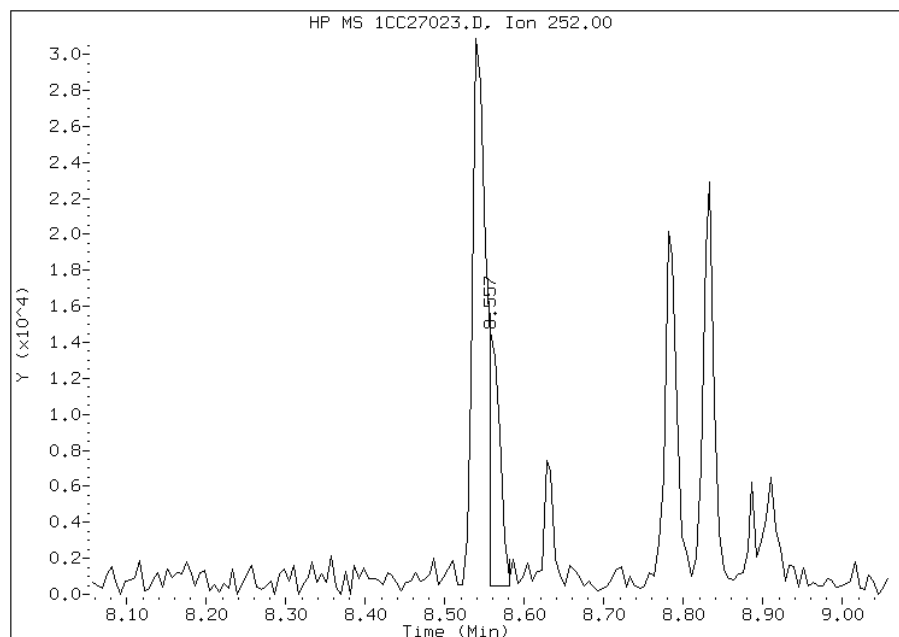
## Processing Integration Results

RT: 8.54  
Response: 46026  
Amount: 2  
Conc: 173



## Manual Integration Results

RT: 8.56  
Response: 13631  
Amount: 0  
Conc: 51



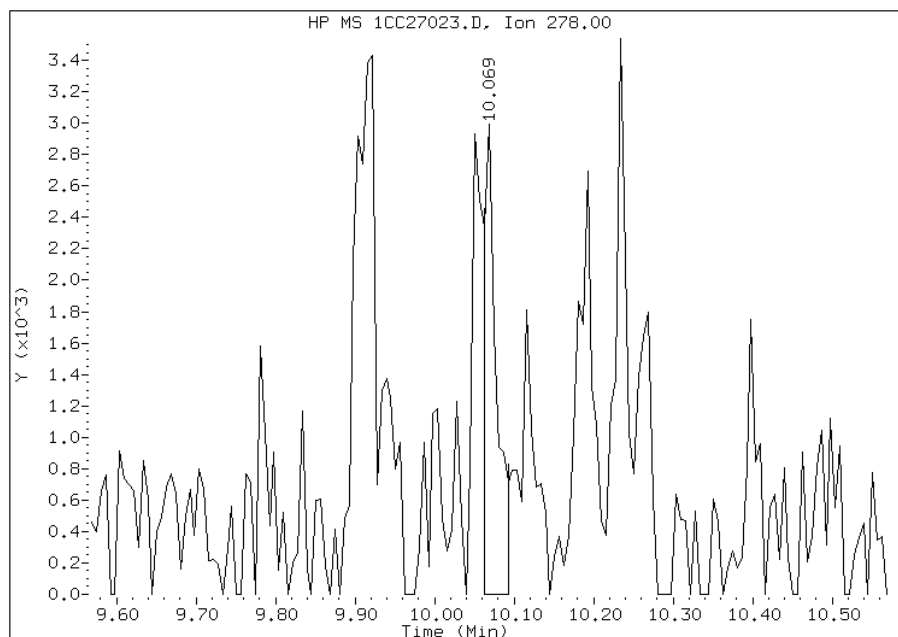
Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:26  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CC27023.D  
Inj. Date and Time: 27-MAR-2013 16:55  
Instrument ID: BSMC5973.i  
Client ID: CV0876A-CS-SP  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/01/2013

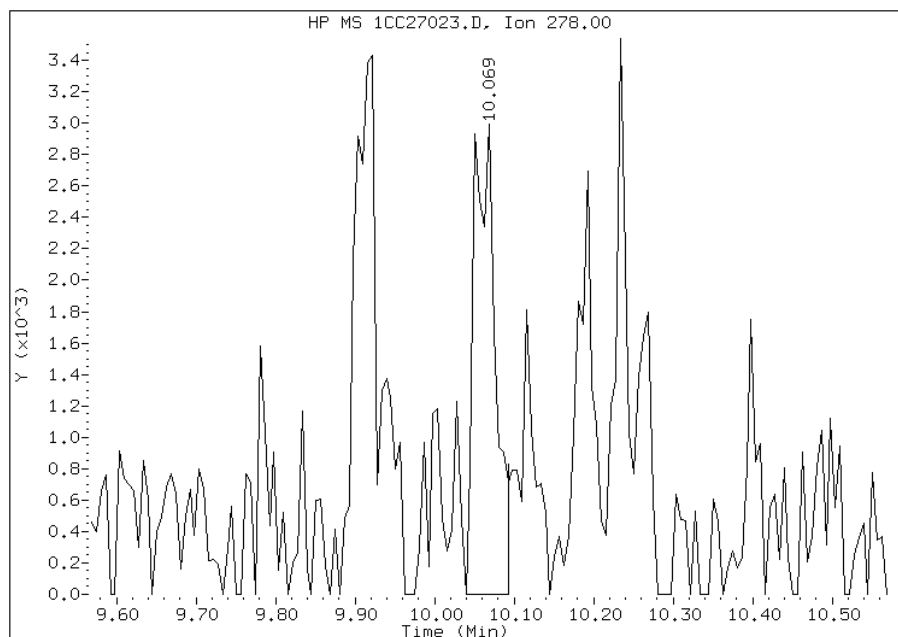
## Processing Integration Results

RT: 10.07  
Response: 3377  
Amount: 0  
Conc: 15



## Manual Integration Results

RT: 10.07  
Response: 5582  
Amount: 0  
Conc: 24



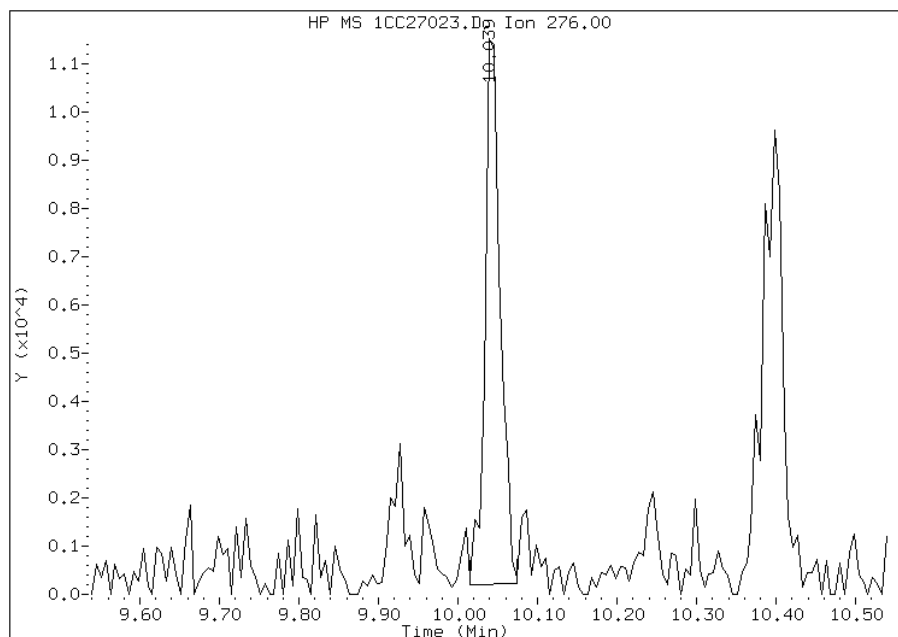
Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:26  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CC27023.D  
Inj. Date and Time: 27-MAR-2013 16:55  
Instrument ID: BSMC5973.i  
Client ID: CV0876A-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/01/2013

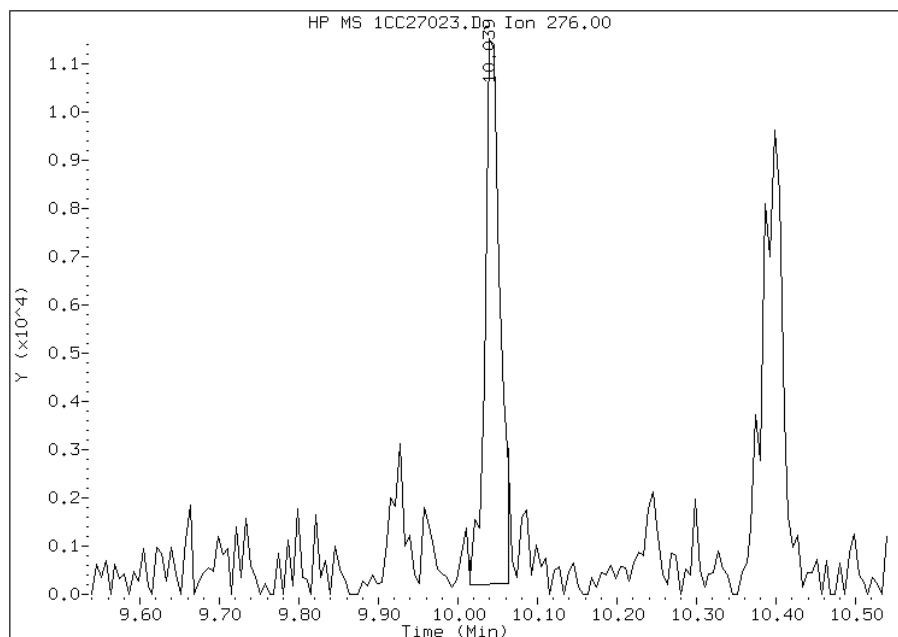
## Processing Integration Results

RT: 10.04  
Response: 14998  
Amount: 1  
Conc: 63



## Manual Integration Results

RT: 10.04  
Response: 14787  
Amount: 1  
Conc: 62



Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:27  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Client Sample ID: CV0876B-CS-SP Lab Sample ID: 680-88592-30  
 Matrix: Solid Lab File ID: 1CC27024.D  
 Analysis Method: 8270C LL Date Collected: 03/20/2013 13:40  
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07  
 Sample wt/vol: 15.05(g) Date Analyzed: 03/27/2013 17:13  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 11.1 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	450	U	450	90
208-96-8	Acenaphthylene	49	J	180	22
120-12-7	Anthracene	63		38	19
56-55-3	Benzo[a]anthracene	280		36	17
50-32-8	Benzo[a]pyrene	310		47	23
205-99-2	Benzo[b]fluoranthene	410		55	27
191-24-2	Benzo[g,h,i]perylene	220		90	20
207-08-9	Benzo[k]fluoranthene	160		36	16
218-01-9	Chrysene	530		40	20
53-70-3	Dibenz(a,h)anthracene	61	J	90	18
206-44-0	Fluoranthene	450		90	18
86-73-7	Fluorene	50	J	90	18
193-39-5	Indeno[1,2,3-cd]pyrene	170		90	32
90-12-0	1-Methylnaphthalene	880		180	20
91-57-6	2-Methylnaphthalene	1100		180	32
91-20-3	Naphthalene	690		180	20
85-01-8	Phenanthrene	670		36	17
129-00-0	Pyrene	490		90	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	80		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27024.D  
 Lab Smp Id: 680-88592-A-30-A Client Smp ID: CV0876B-CS-SP  
 Inj Date : 27-MAR-2013 17:13  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88592-a-30-a  
 Misc Info : 680-88592-A-30-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m  
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
 Als bottle: 24  
 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	11.060	% 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		3.727	3.727	(1.000)	750385	40.0000		
* 6 Acenaphthene-d10	164		4.816	4.815	(1.000)	591664	40.0000		
* 10 Phenanthrene-d10	188		5.763	5.762	(1.000)	1080913	40.0000		
\$ 14 o-Terphenyl	230		6.016	6.015	(1.044)	32520	1.99265	595.4671	
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1183887	40.0000		
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1138202	40.0000		
2 Naphthalene	128		3.739	3.739	(1.003)	45286	2.31816	692.7372	
3 2-Methylnaphthalene	142		4.169	4.168	(1.118)	45942	3.52561	1053.5619	
4 1-Methylnaphthalene	142		4.227	4.227	(1.134)	34854	2.93679	877.6038	
5 Acenaphthylene	152		4.727	4.727	(0.982)	3896	0.16333	48.8071(Q)	
9 Fluorene	166		5.151	5.157	(1.070)	3131	0.16698	49.8982(Q)	
11 Phenanthrene	178		5.780	5.780	(1.003)	70584	2.25831	674.8535	
12 Anthracene	178		5.816	5.815	(1.009)	6410	0.20970	62.6650	
13 Carbazole	167		5.921	5.921	(1.028)	8123	0.29894	89.3338	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		----	-----	-----	-----	-----	-----
15 Fluoranthene	202		6.615	6.615	(1.148)	51485	1.50417	449.4919
16 Pyrene	202		6.786	6.786	(0.881)	51645	1.62328	485.0859
17 Benzo(a)anthracene	228		7.698	7.698	(0.999)	31755	0.92934	277.7169
19 Chrysene	228		7.727	7.727	(1.003)	60576	1.77149	529.3766
20 Benzo(b)fluoranthene	252		8.545	8.539	(0.962)	40677	1.36750	408.6526
21 Benzo(k)fluoranthene	252		8.562	8.562	(0.964)	15988	0.52395	156.5733
22 Benzo(a)pyrene	252		8.833	8.833	(0.994)	29756	1.02988	307.7614
24 Indeno(1,2,3-cd)pyrene	276		10.045	10.050	(1.130)	15559	0.57245	171.0655(M)
25 Dibenzo(a,h)anthracene	278		10.062	10.068	(1.132)	5440	0.20462	61.1474
26 Benzo(g,h,i)perylene	276		10.398	10.397	(1.170)	21132	0.74324	222.1031

QC Flag Legend

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



Data File: 1CC27024.D

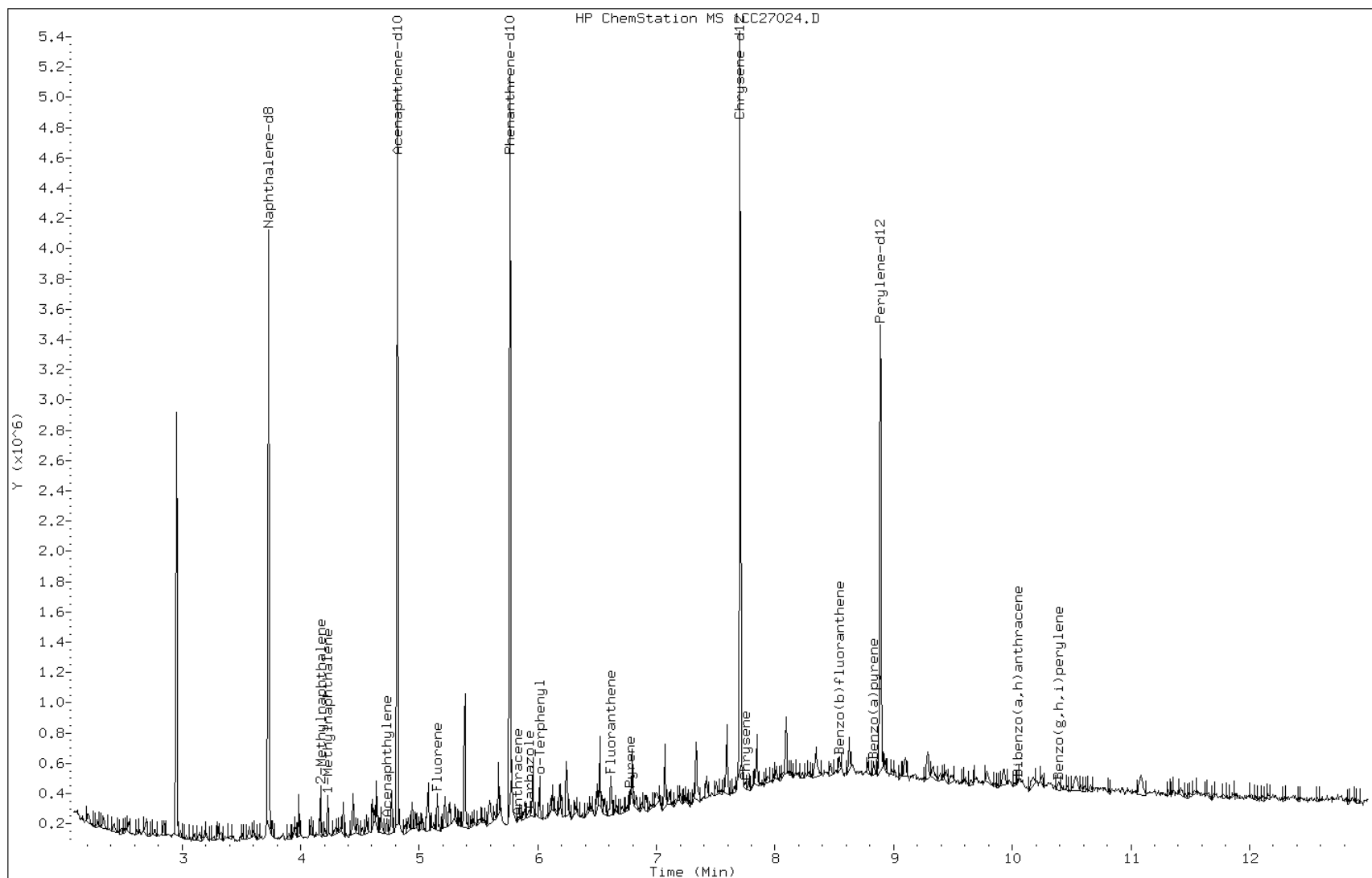
Date: 27-MAR-2013 17:13

Client ID: CV0876B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-30-a

Operator: SCC



Data File: 1CC27024.D

Date: 27-MAR-2013 17:13

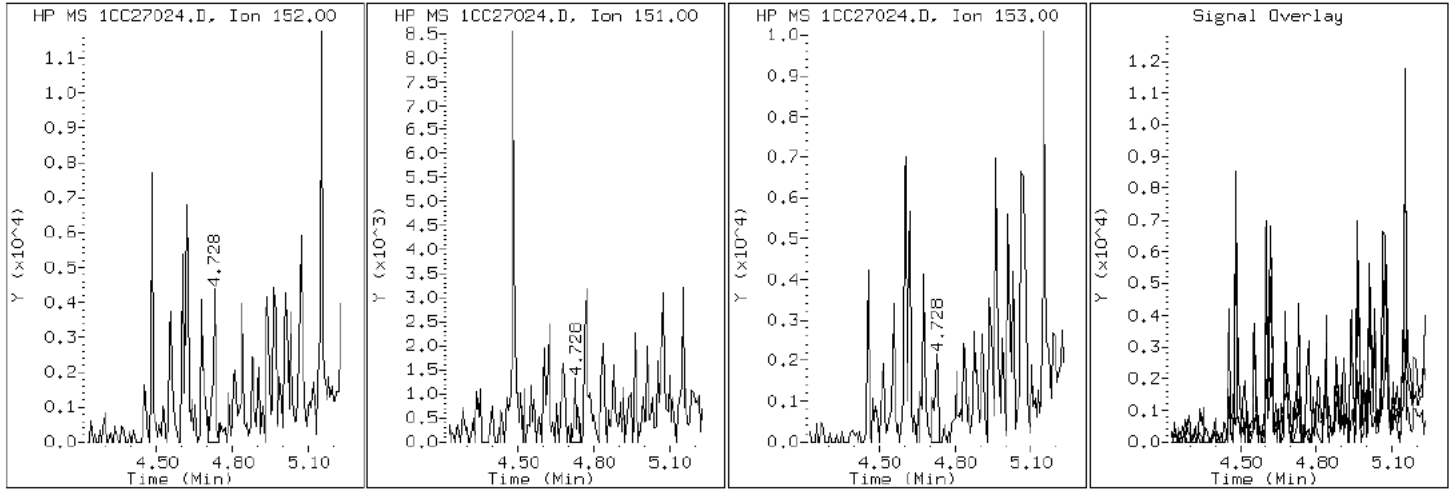
Client ID: CV0876B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-30-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC27024.D

Date: 27-MAR-2013 17:13

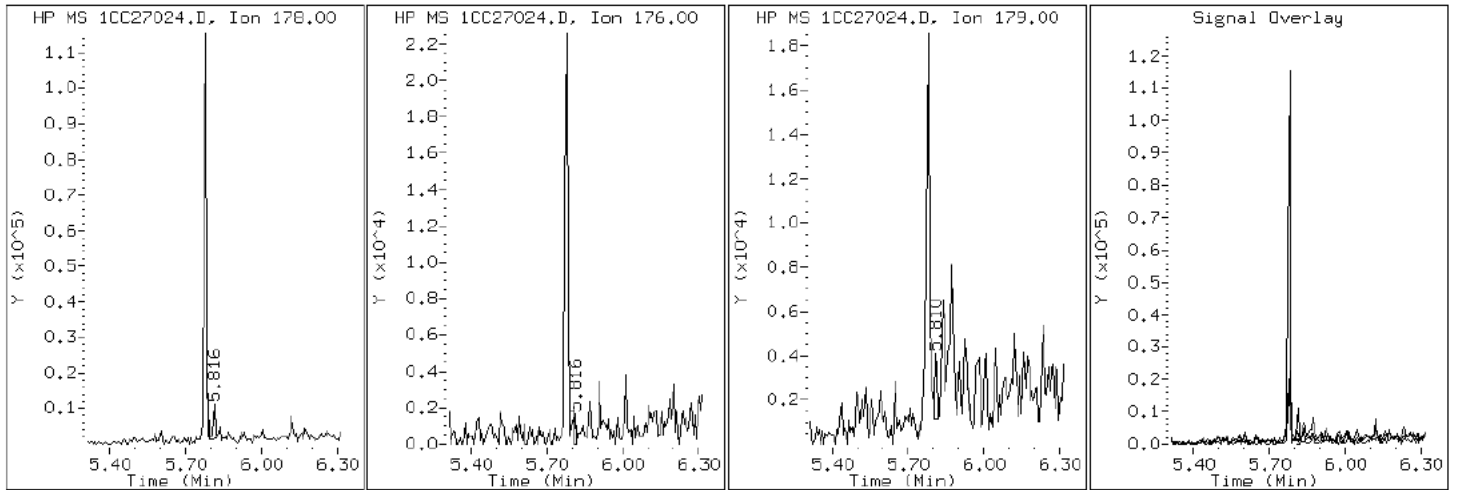
Client ID: CV0876B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-30-a

Operator: SCC

12 Anthracene



Data File: 1CC27024.D

Date: 27-MAR-2013 17:13

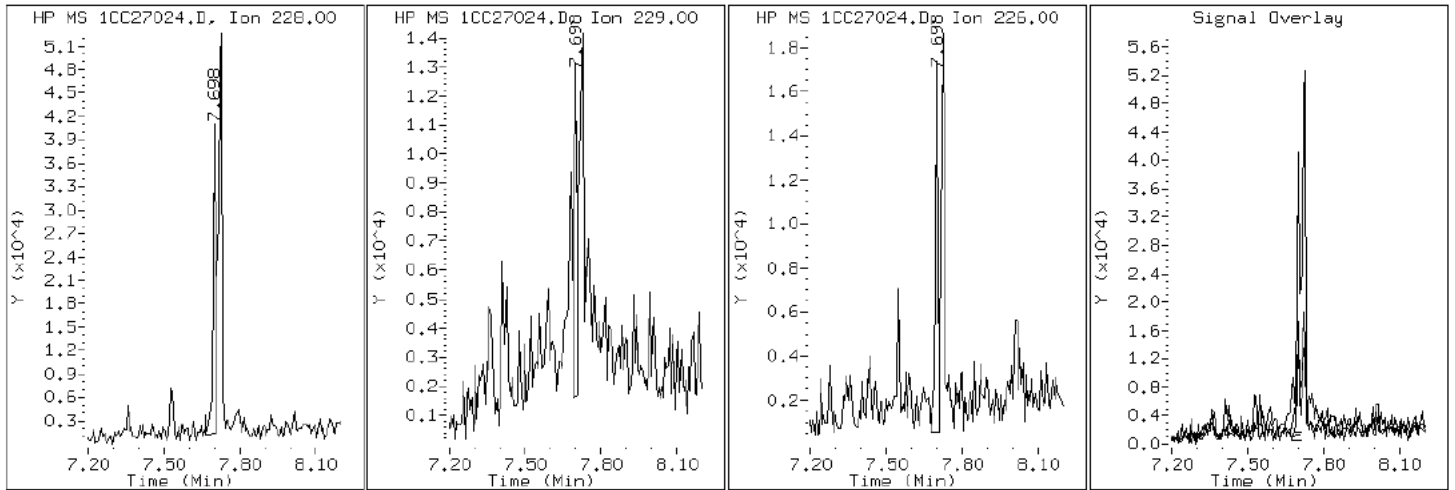
Client ID: CV0876B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-30-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC27024.D

Date: 27-MAR-2013 17:13

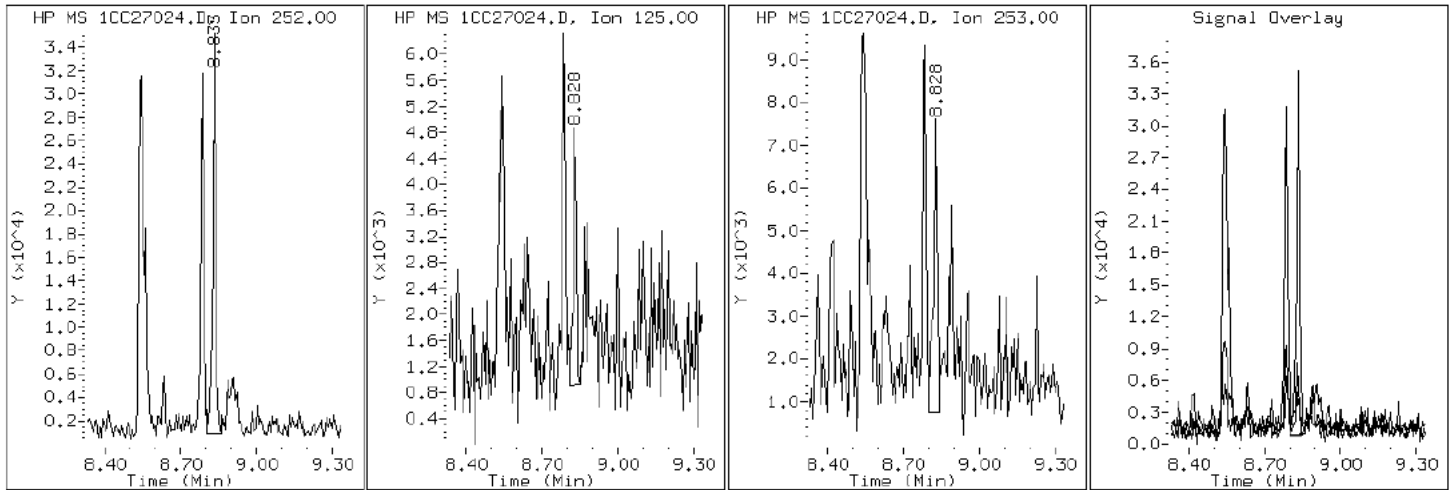
Client ID: CV0876B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-30-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC27024.D

Date: 27-MAR-2013 17:13

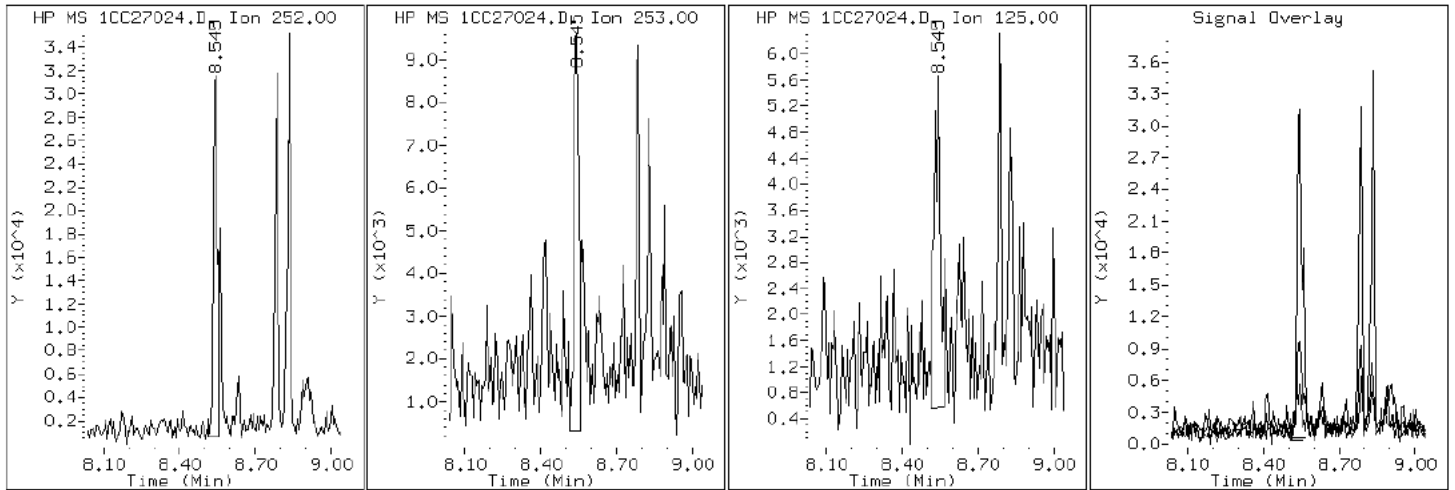
Client ID: CV0876B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-30-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC27024.D

Date: 27-MAR-2013 17:13

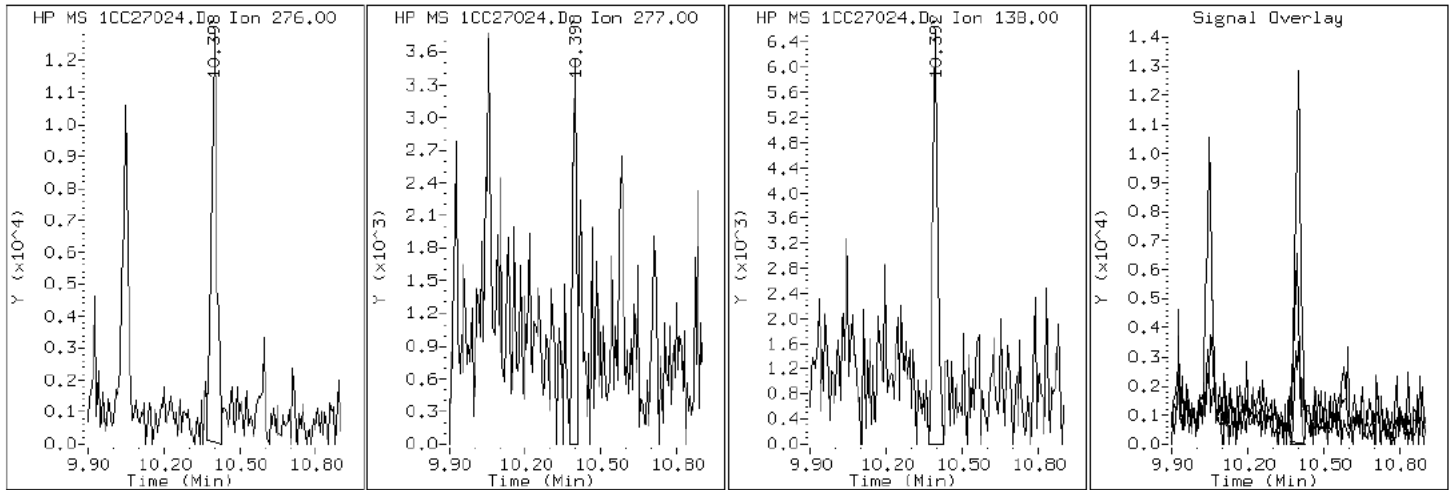
Client ID: CV0876B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-30-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC27024.D

Date: 27-MAR-2013 17:13

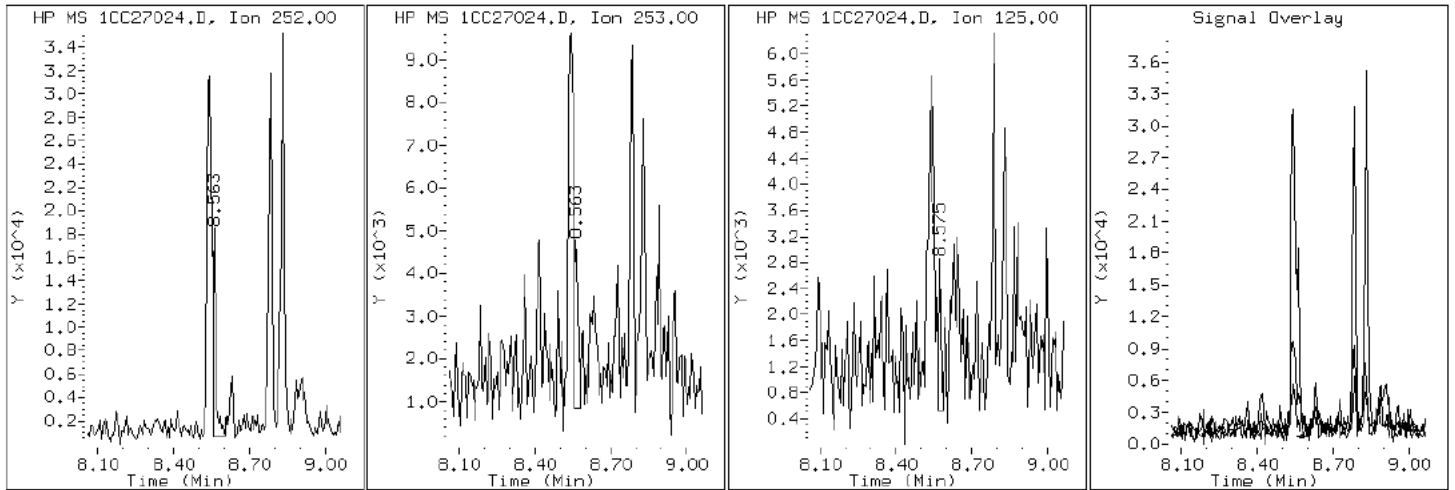
Client ID: CV0876B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-30-a

Operator: SCC

21 Benzo(k)fluoranthene





Data File: 1CC27024.D

Date: 27-MAR-2013 17:13

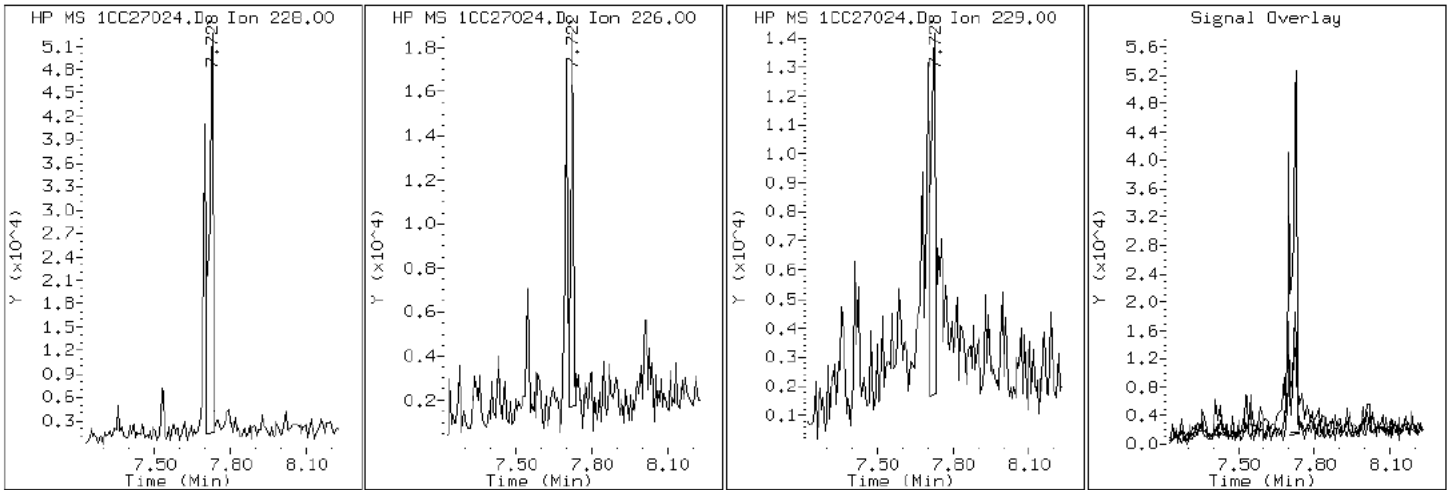
Client ID: CV0876B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-30-a

Operator: SCC

19 Chrysene



Data File: 1CC27024.D

Date: 27-MAR-2013 17:13

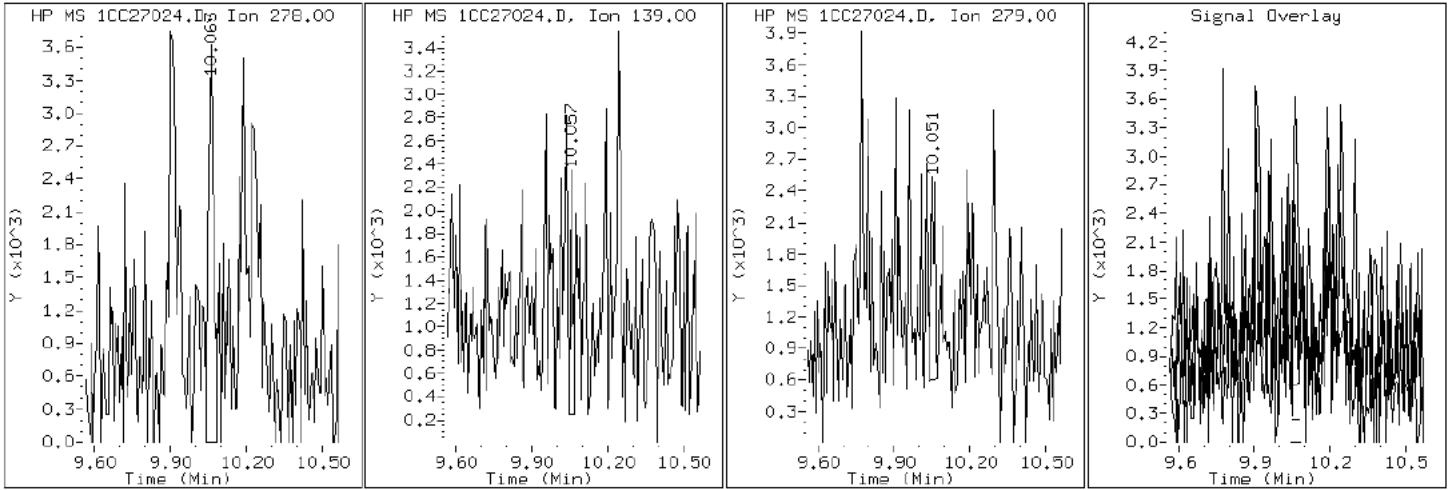
Client ID: CV0876B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-30-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC27024.D

Date: 27-MAR-2013 17:13

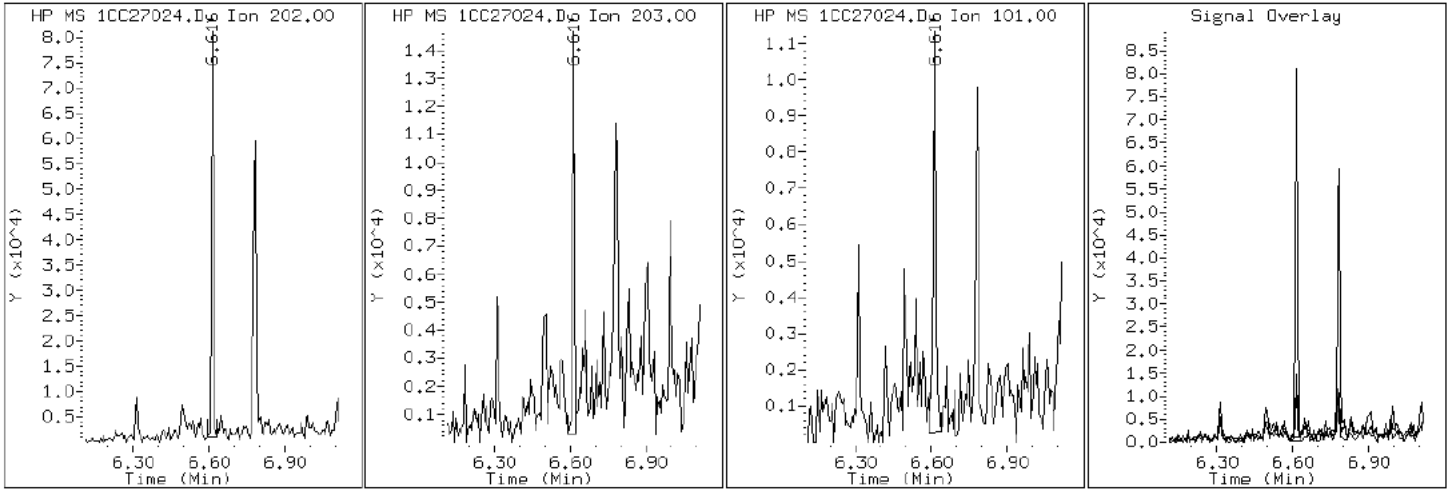
Client ID: CV0876B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-30-a

Operator: SCC

15 Fluoranthene



Data File: 1CC27024.D

Date: 27-MAR-2013 17:13

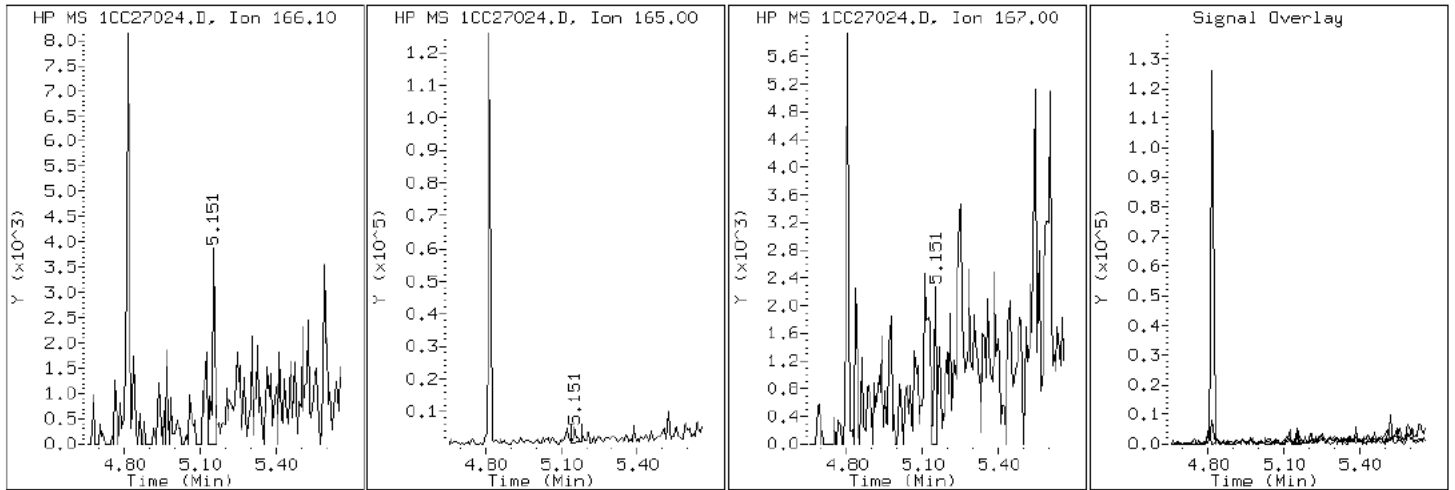
Client ID: CV0876B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-30-a

Operator: SCC

9 Fluorene



Data File: 1CC27024.D

Date: 27-MAR-2013 17:13

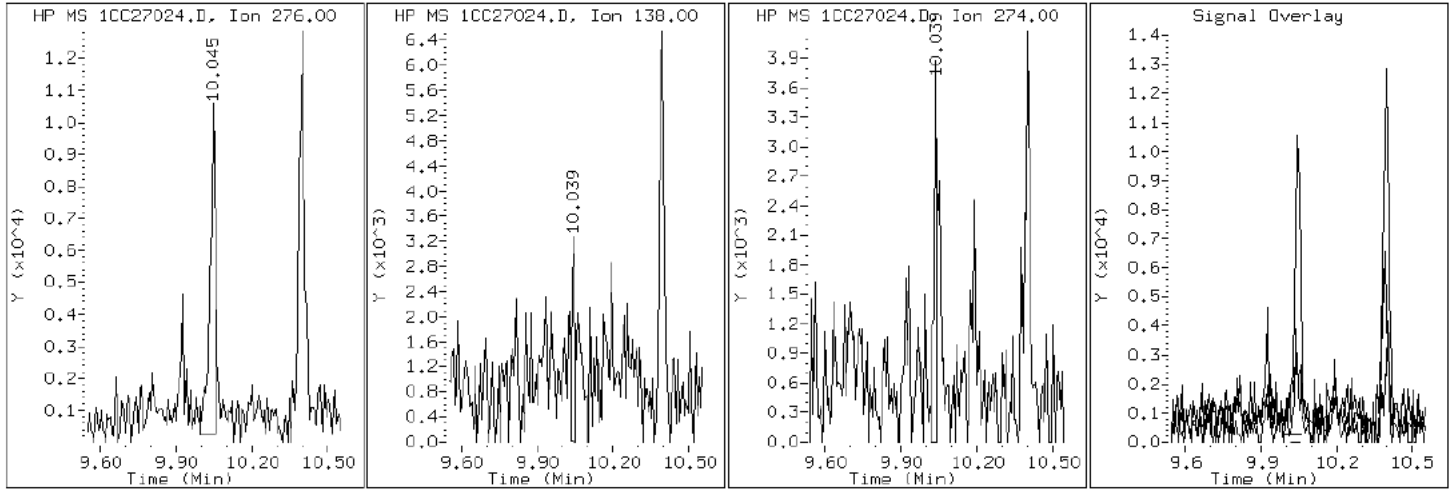
Client ID: CV0876B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-30-a

Operator: SCC

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



Data File: 1CC27024.D

Date: 27-MAR-2013 17:13

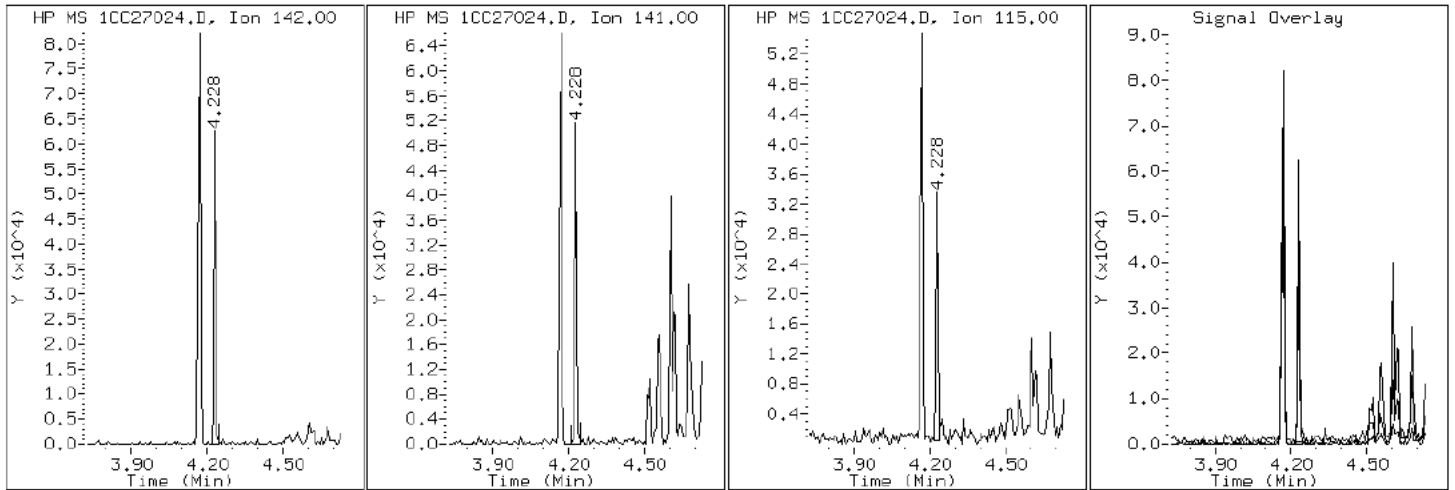
Client ID: CV0876B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-30-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC27024.D

Date: 27-MAR-2013 17:13

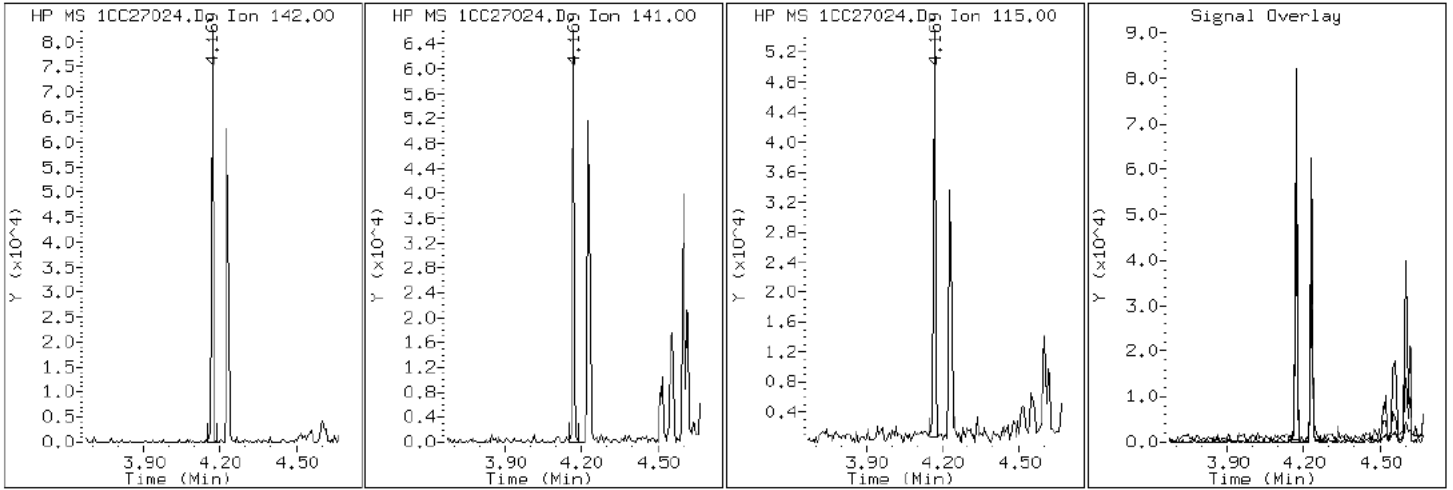
Client ID: CV0876B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-30-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC27024.D

Date: 27-MAR-2013 17:13

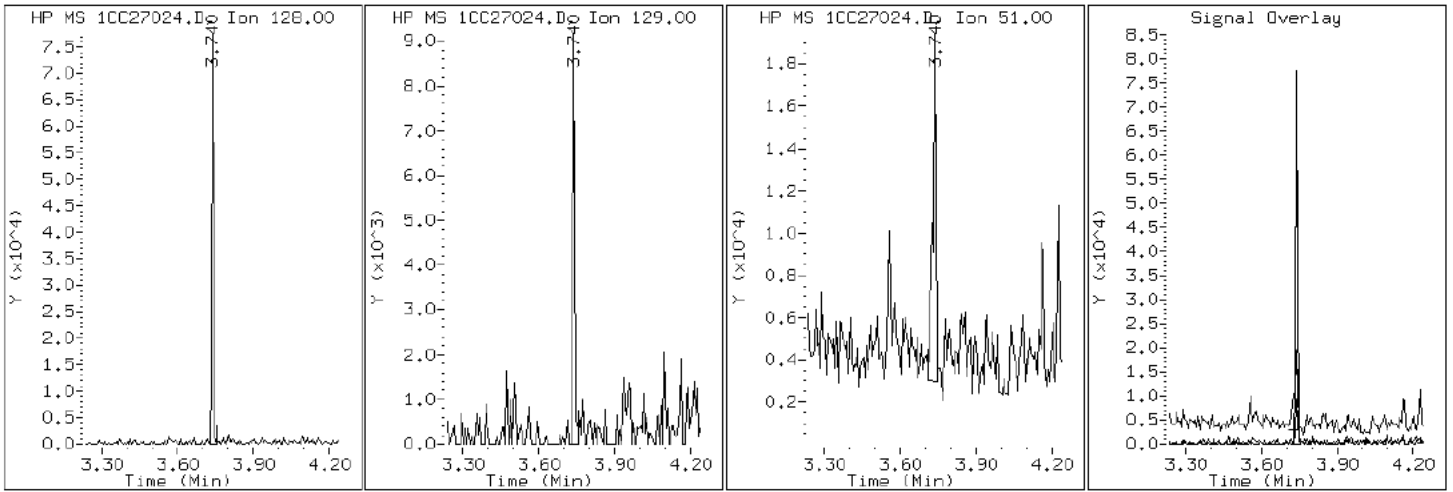
Client ID: CV0876B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-30-a

Operator: SCC

2 Naphthalene





Data File: 1CC27024.D

Date: 27-MAR-2013 17:13

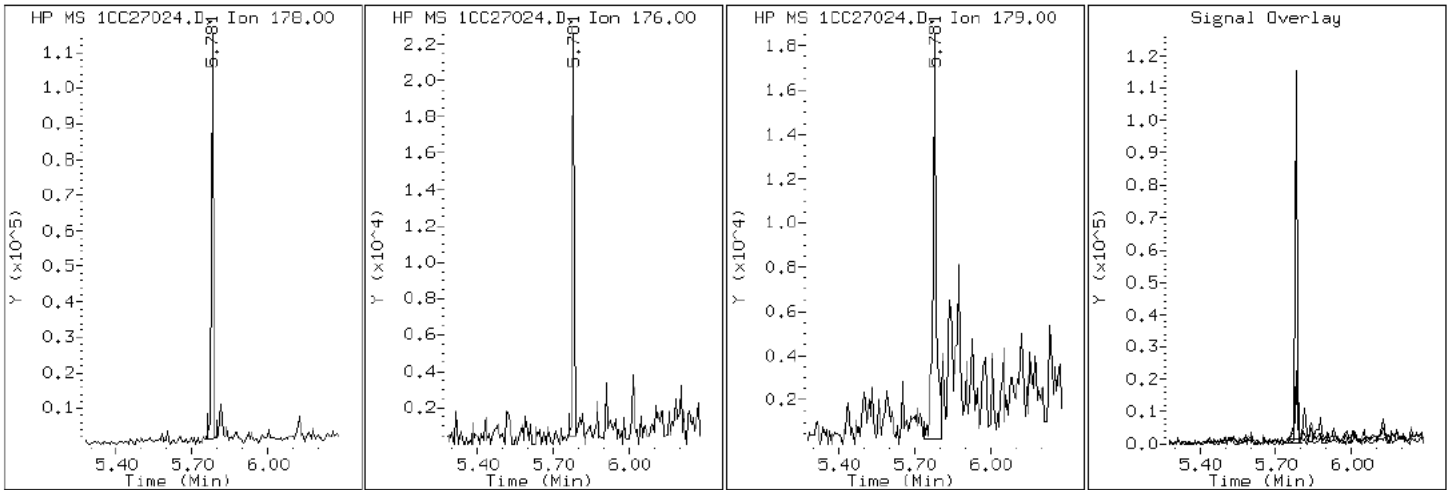
Client ID: CV0876B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-30-a

Operator: SCC

11 Phenanthrene



Data File: 1CC27024.D

Date: 27-MAR-2013 17:13

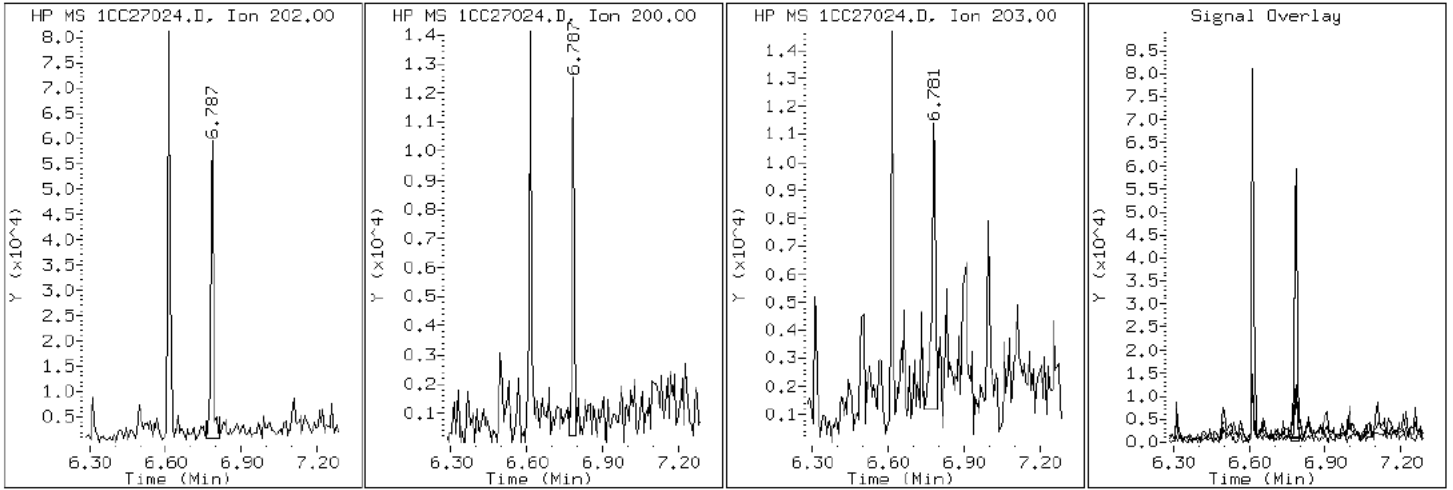
Client ID: CV0876B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-30-a

Operator: SCC

16 Pyrene

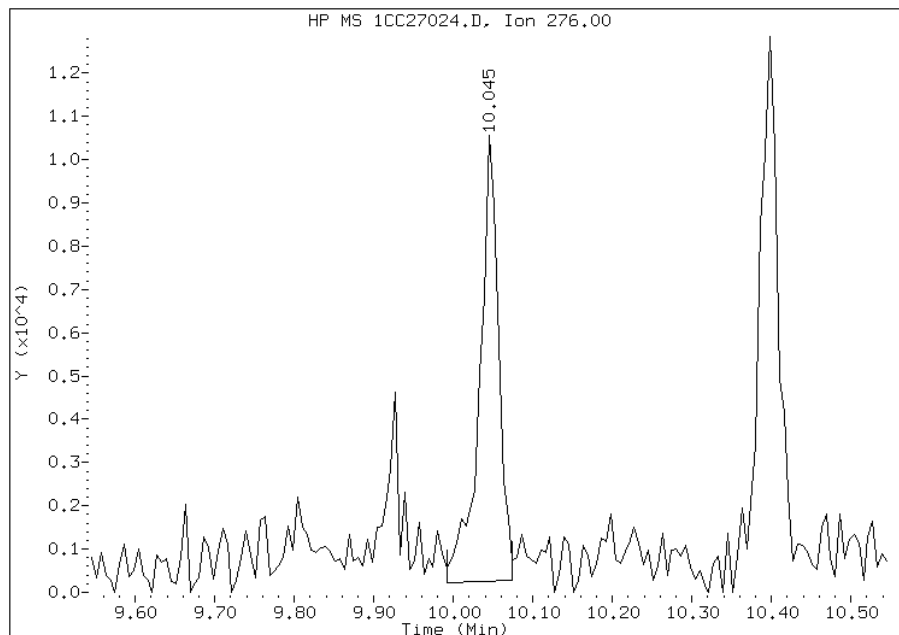


# Manual Integration Report

Data File: 1CC27024.D  
Inj. Date and Time: 27-MAR-2013 17:13  
Instrument ID: BSMC5973.i  
Client ID: CV0876B-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/01/2013

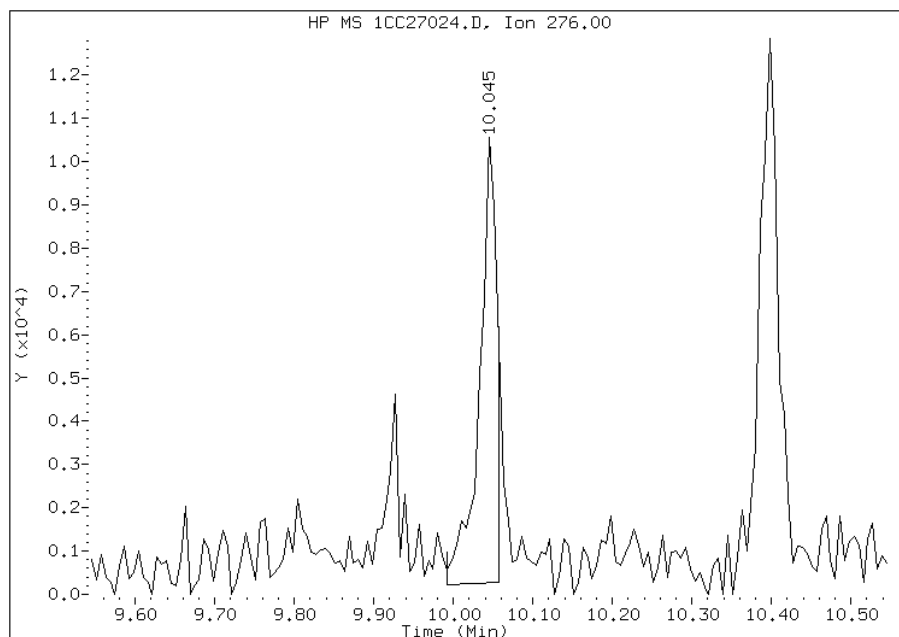
## Processing Integration Results

RT: 10.05  
Response: 17035  
Amount: 1  
Conc: 187



## Manual Integration Results

RT: 10.05  
Response: 15559  
Amount: 1  
Conc: 171



Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:29  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Client Sample ID: FM0168A-CS-SP Lab Sample ID: 680-88592-31  
 Matrix: Solid Lab File ID: 1CC27025.D  
 Analysis Method: 8270C LL Date Collected: 03/20/2013 14:47  
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07  
 Sample wt/vol: 15.08(g) Date Analyzed: 03/27/2013 17:31  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 26.4 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	27
208-96-8	Acenaphthylene	38	J	54	6.8
120-12-7	Anthracene	55		11	5.7
56-55-3	Benzo[a]anthracene	270		11	5.3
50-32-8	Benzo[a]pyrene	260		14	7.0
205-99-2	Benzo[b]fluoranthene	480		16	8.2
191-24-2	Benzo[g,h,i]perylene	180		27	5.9
207-08-9	Benzo[k]fluoranthene	170		11	4.9
218-01-9	Chrysene	320		12	6.1
53-70-3	Dibenz(a,h)anthracene	60		27	5.5
206-44-0	Fluoranthene	610		27	5.4
86-73-7	Fluorene	19	J	27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	130		27	9.6
90-12-0	1-Methylnaphthalene	98		54	5.9
91-57-6	2-Methylnaphthalene	96		54	9.6
91-20-3	Naphthalene	80		54	5.9
85-01-8	Phenanthrene	420		11	5.3
129-00-0	Pyrene	530		27	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	82		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27025.D  
 Lab Smp Id: 680-88592-A-31-A Client Smp ID: FM0168A-CS-SP  
 Inj Date : 27-MAR-2013 17:31  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88592-a-31-a  
 Misc Info : 680-88592-A-31-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m  
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	15.080	Weight Extracted
M	26.391	% 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		3.727	3.727	(1.000)	733051	40.0000	
* 6 Acenaphthene-d10	164		4.816	4.815	(1.000)	569955	40.0000	
* 10 Phenanthrene-d10	188		5.763	5.762	(1.000)	1050634	40.0000	
\$ 14 o-Terphenyl	230		6.016	6.015	(1.044)	130182	8.20676	739.3354
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1154694	40.0000	
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1098146	40.0000	
2 Naphthalene	128		3.739	3.739	(1.003)	16847	0.88278	79.5281
3 2-Methylnaphthalene	142		4.169	4.168	(1.118)	13561	1.06529	95.9700
4 1-Methylnaphthalene	142		4.227	4.227	(1.134)	12572	1.08436	97.6886
5 Acenaphthylene	152		4.727	4.727	(0.982)	9592	0.41743	37.6055
9 Fluorene	166		5.157	5.157	(1.071)	3765	0.20844	18.7778(Q)
11 Phenanthrene	178		5.780	5.780	(1.003)	143128	4.71130	424.4350
12 Anthracene	178		5.816	5.815	(1.009)	17989	0.60546	54.5453
13 Carbazole	167		5.921	5.921	(1.028)	23975	0.90776	81.7789

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.615	6.615	(1.148)	224444	6.74625	607.7606
16 Pyrene	202	6.786	6.786	(0.881)	184262	5.93805	534.9505
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	99009	2.97086	267.6408
19 Chrysene	228	7.721	7.727	(1.002)	118187	3.54365	319.2429
20 Benzo(b)fluoranthene	252	8.545	8.539	(0.962)	152111	5.30029	477.4955(M)
21 Benzo(k)fluoranthene	252	8.557	8.562	(0.963)	56959	1.93473	174.2967(QM)
22 Benzo(a)pyrene	252	8.833	8.833	(0.994)	79975	2.86898	258.4623
24 Indeno(1,2,3-cd)pyrene	276	10.045	10.050	(1.130)	38396	1.46420	131.9076(M)
25 Dibenzo(a,h)anthracene	278	10.056	10.068	(1.132)	17097	0.66655	60.0485
26 Benzo(g,h,i)perylene	276	10.398	10.397	(1.170)	53572	1.95292	175.9362

QC Flag Legend

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

Data File: 1CC27025.D

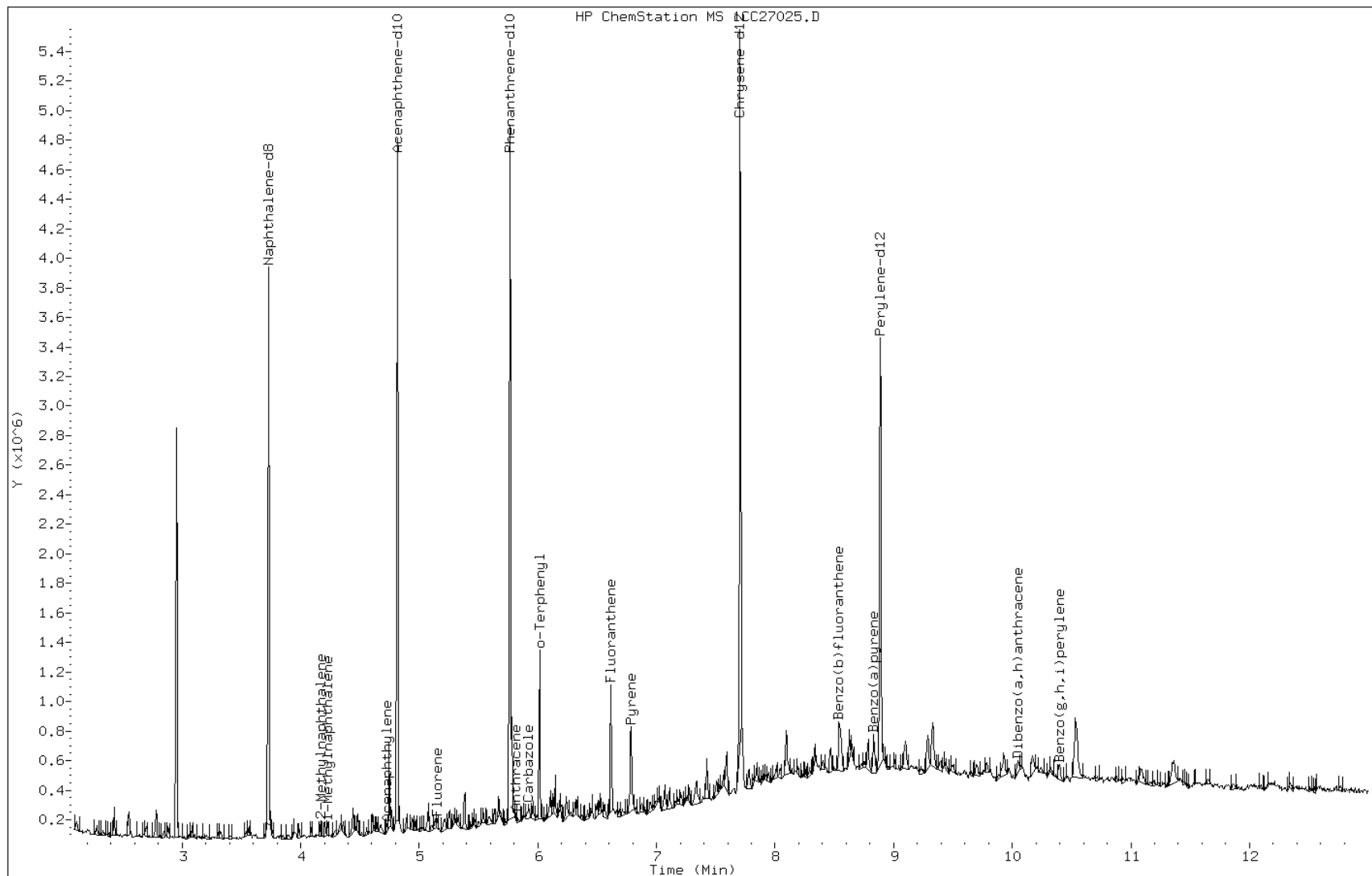
Date: 27-MAR-2013 17:31

Client ID: FM0168A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-31-a

Operator: SCC



Data File: 1CC27025.D

Date: 27-MAR-2013 17:31

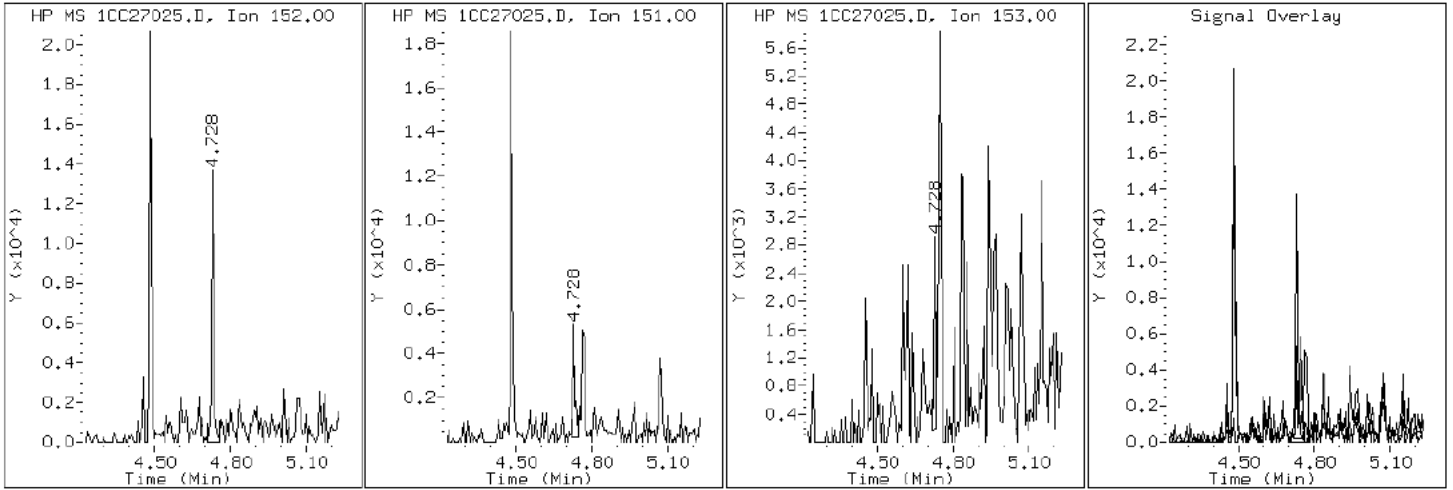
Client ID: FM0168A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-31-a

Operator: SCC

5 Acenaphthylene





Data File: 1CC27025.D

Date: 27-MAR-2013 17:31

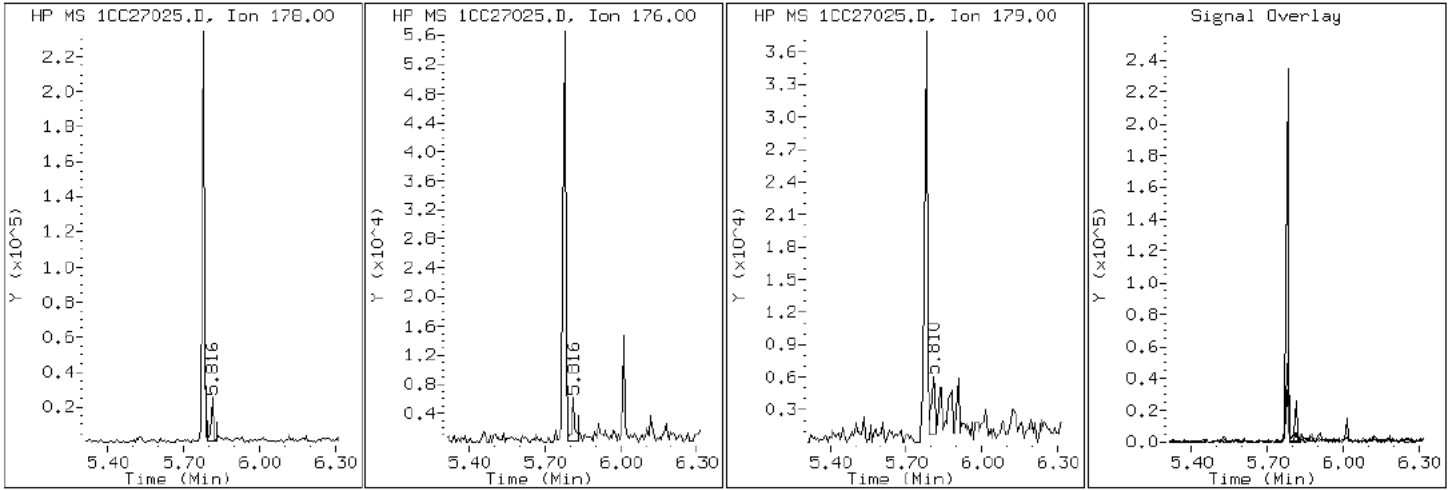
Client ID: FM0168A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-31-a

Operator: SCC

12 Anthracene



Data File: 1CC27025.D

Date: 27-MAR-2013 17:31

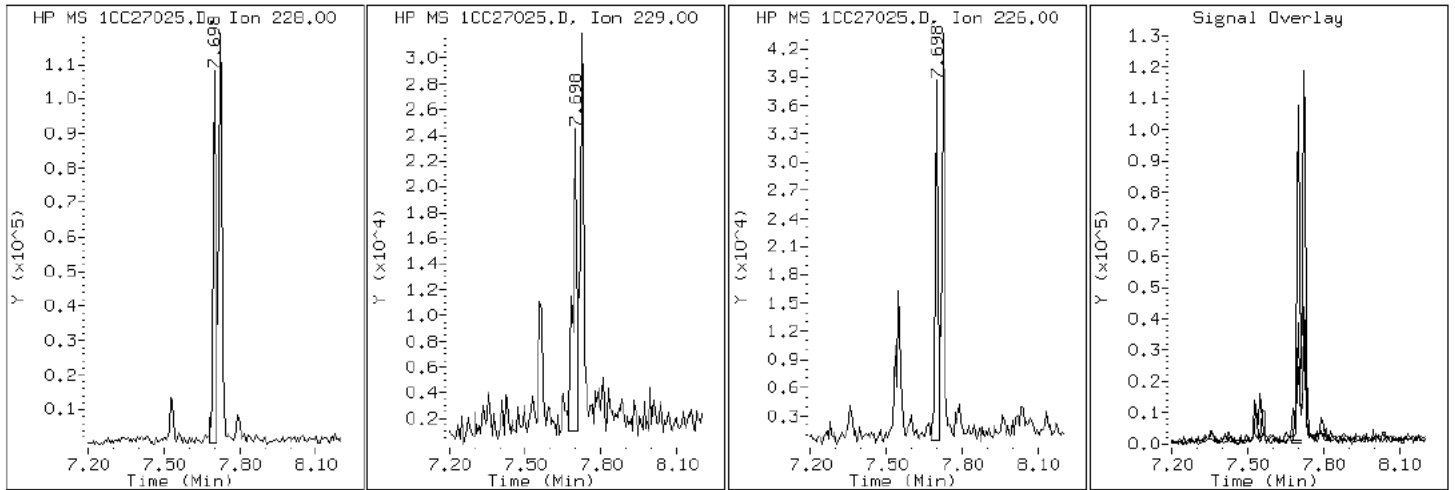
Client ID: FM0168A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-31-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC27025.D

Date: 27-MAR-2013 17:31

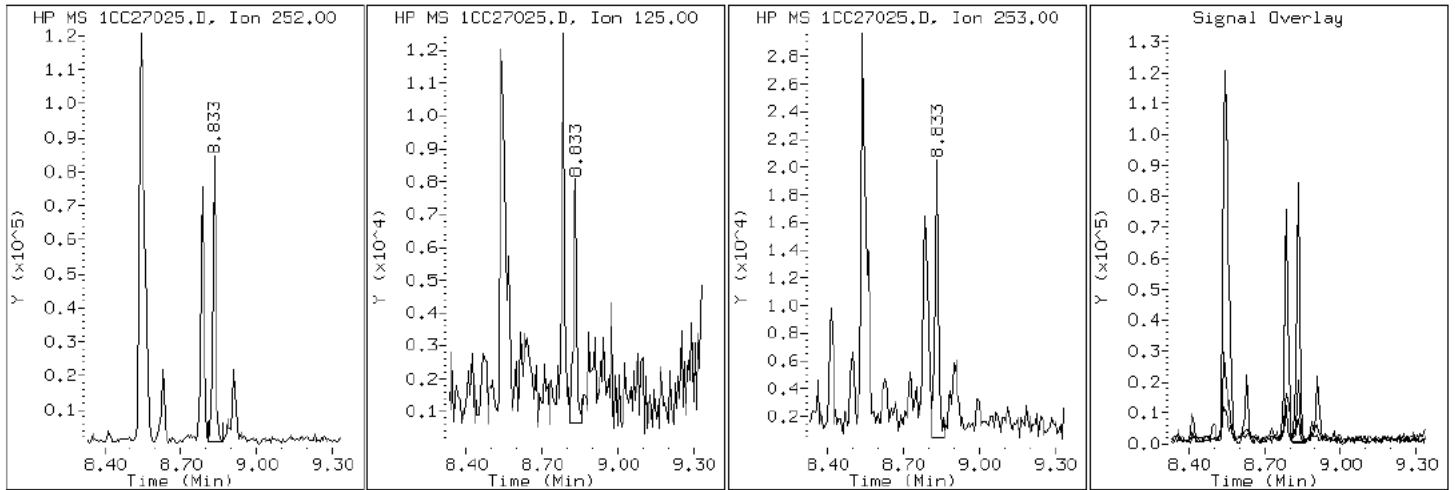
Client ID: FM0168A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-31-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC27025.D

Date: 27-MAR-2013 17:31

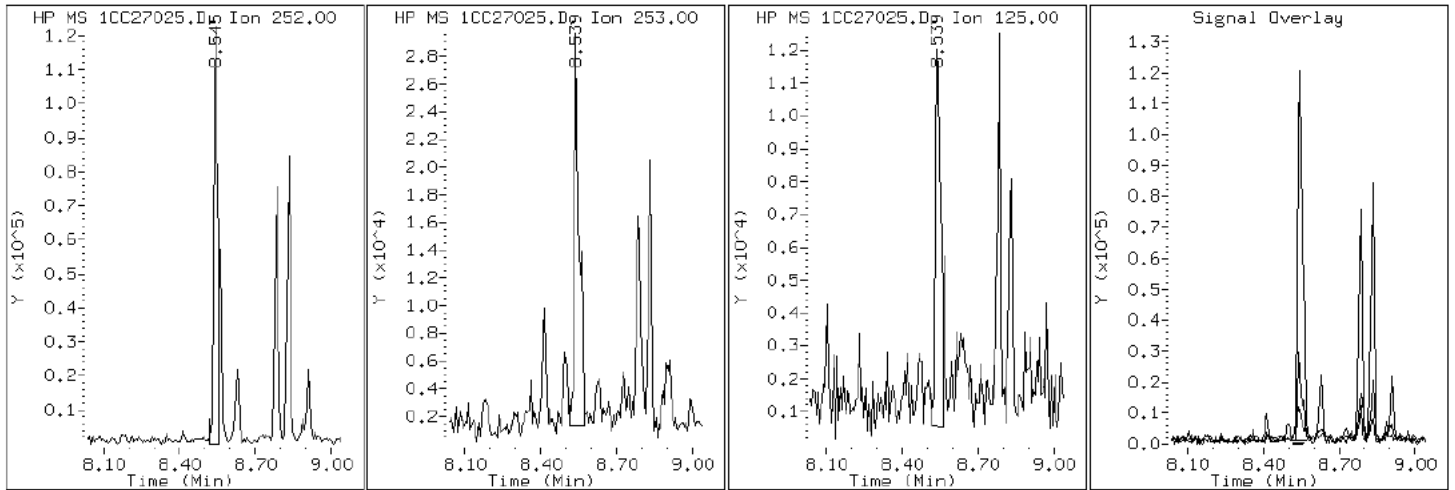
Client ID: FM0168A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-31-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC27025.D

Date: 27-MAR-2013 17:31

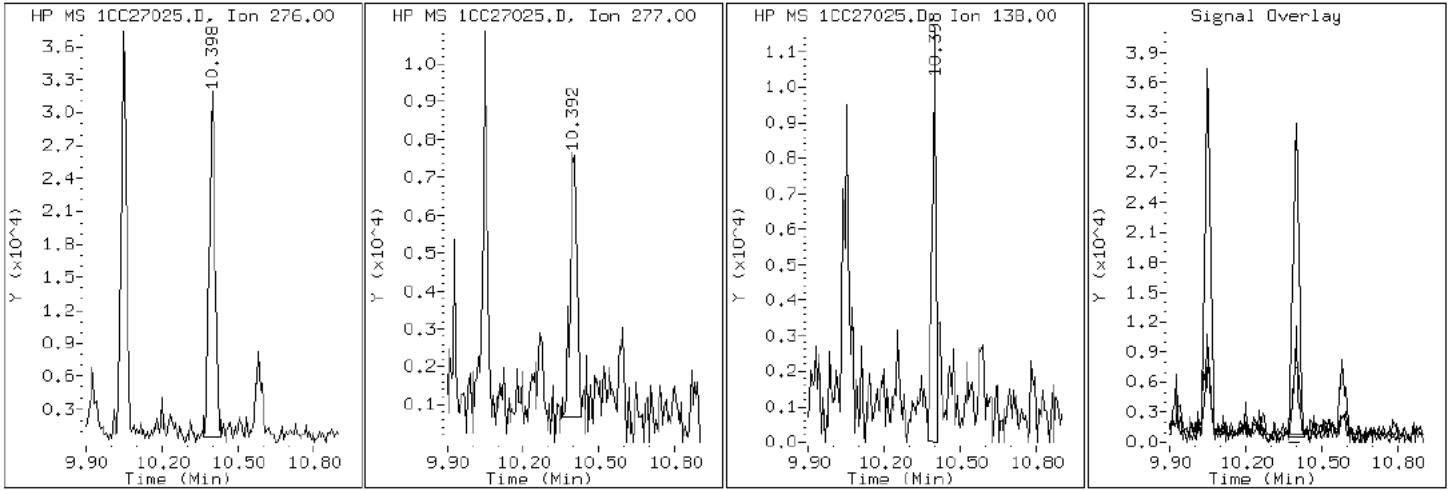
Client ID: FM0168A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-31-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC27025.D

Date: 27-MAR-2013 17:31

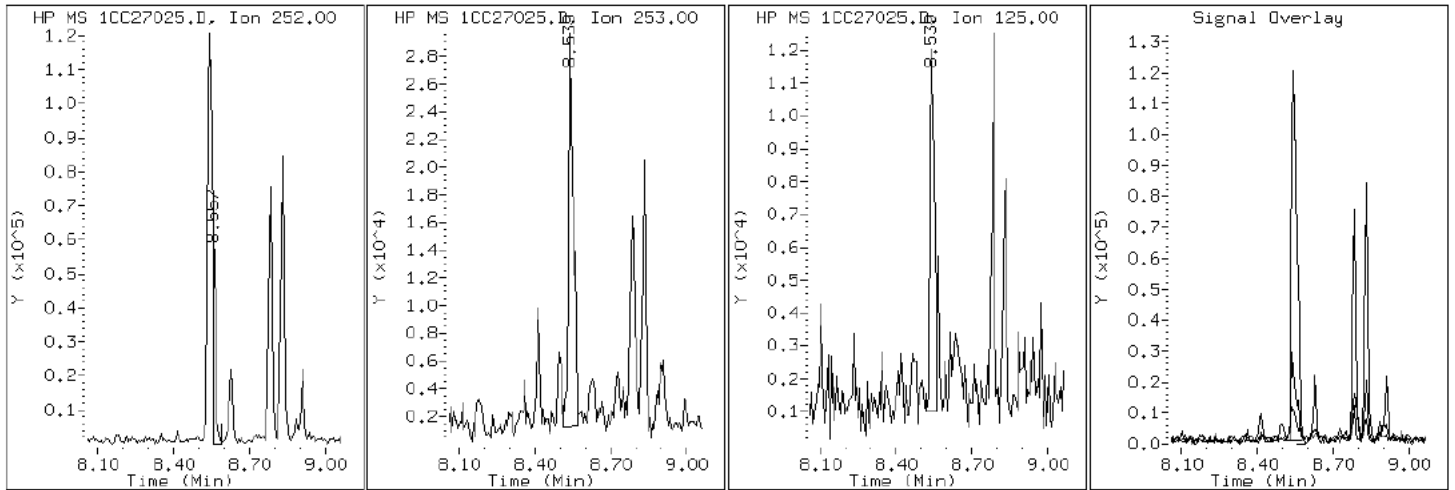
Client ID: FM0168A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-31-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC27025.D

Date: 27-MAR-2013 17:31

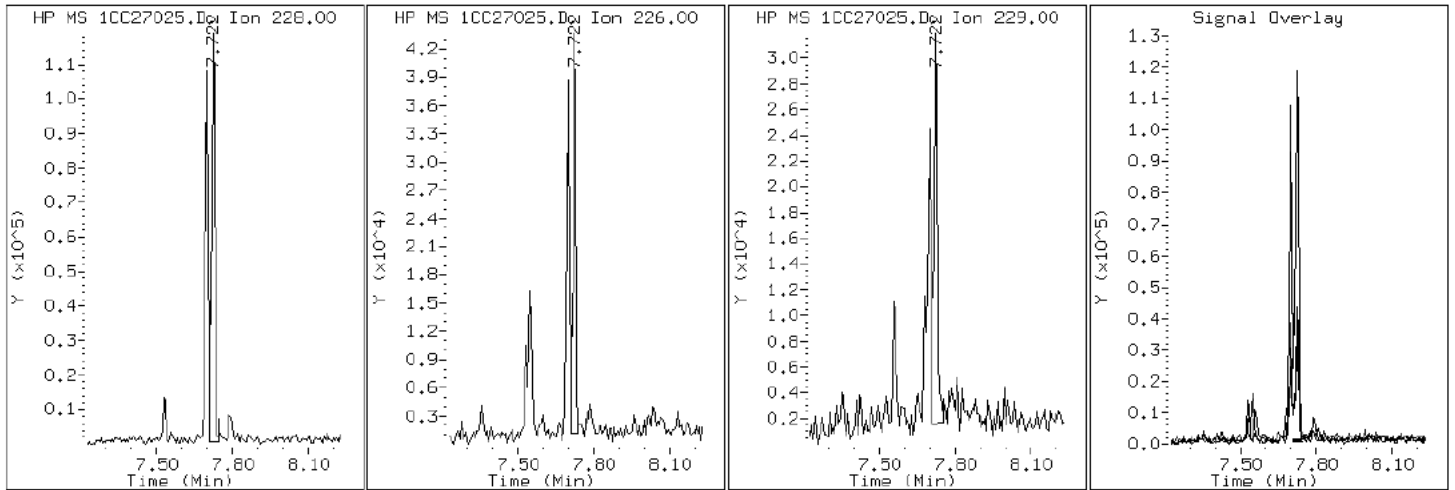
Client ID: FM0168A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-31-a

Operator: SCC

19 Chrysene



Data File: 1CC27025.D

Date: 27-MAR-2013 17:31

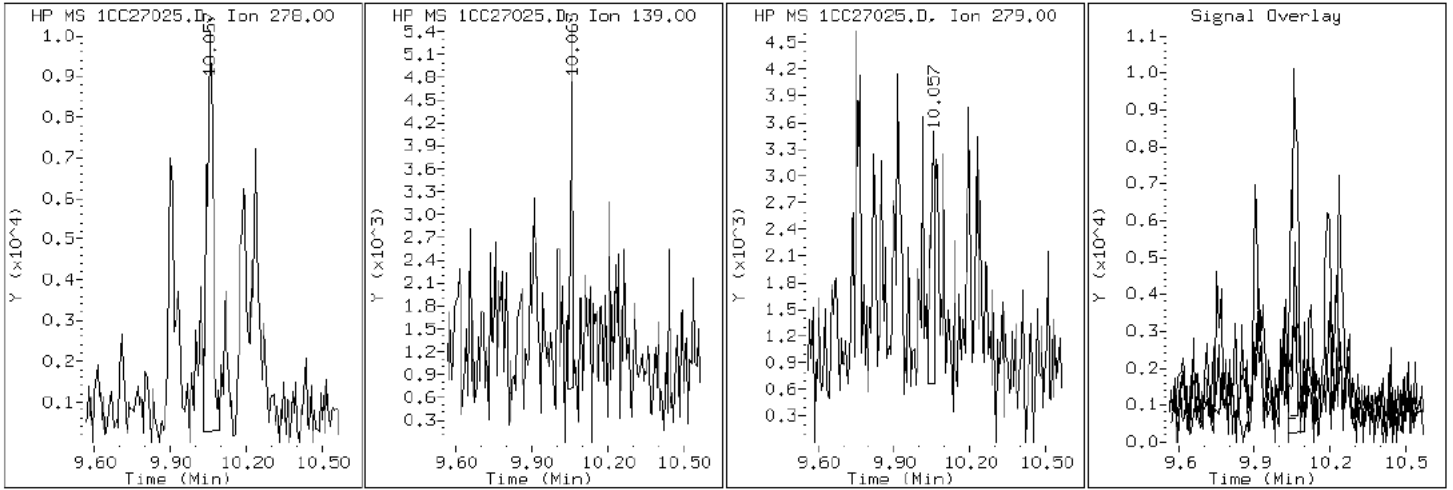
Client ID: FM0168A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-31-a

Operator: SCC

25 Dibenzo (a,h) anthracene





Data File: 1CC27025.D

Date: 27-MAR-2013 17:31

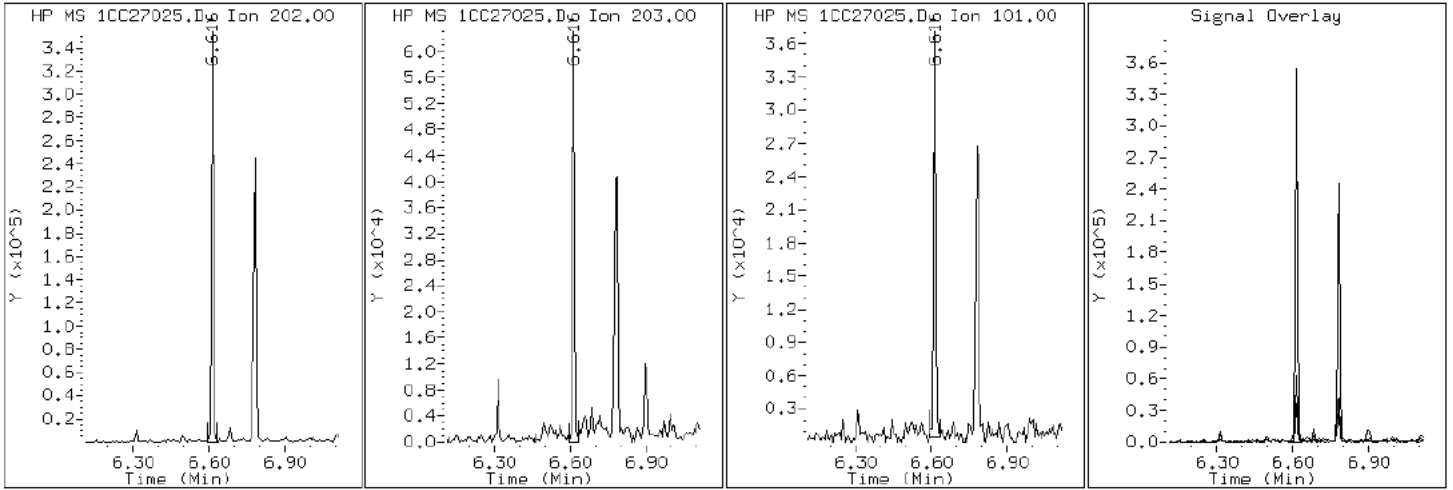
Client ID: FM0168A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-31-a

Operator: SCC

15 Fluoranthene



Data File: 1CC27025.D

Date: 27-MAR-2013 17:31

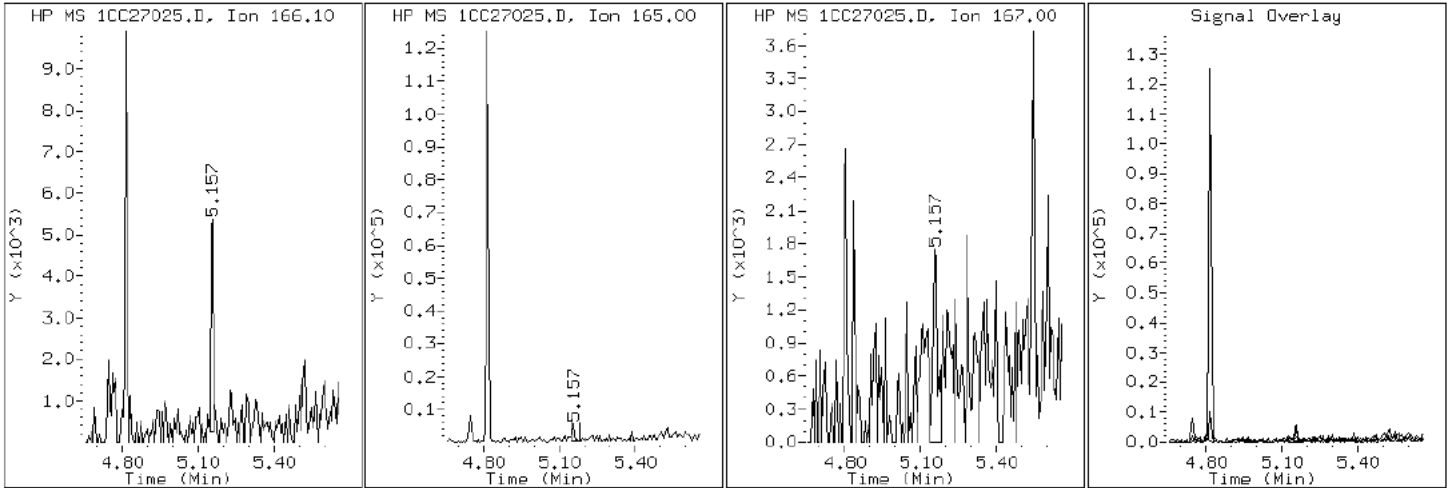
Client ID: FM0168A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-31-a

Operator: SCC

9 Fluorene



Data File: 1CC27025.D

Date: 27-MAR-2013 17:31

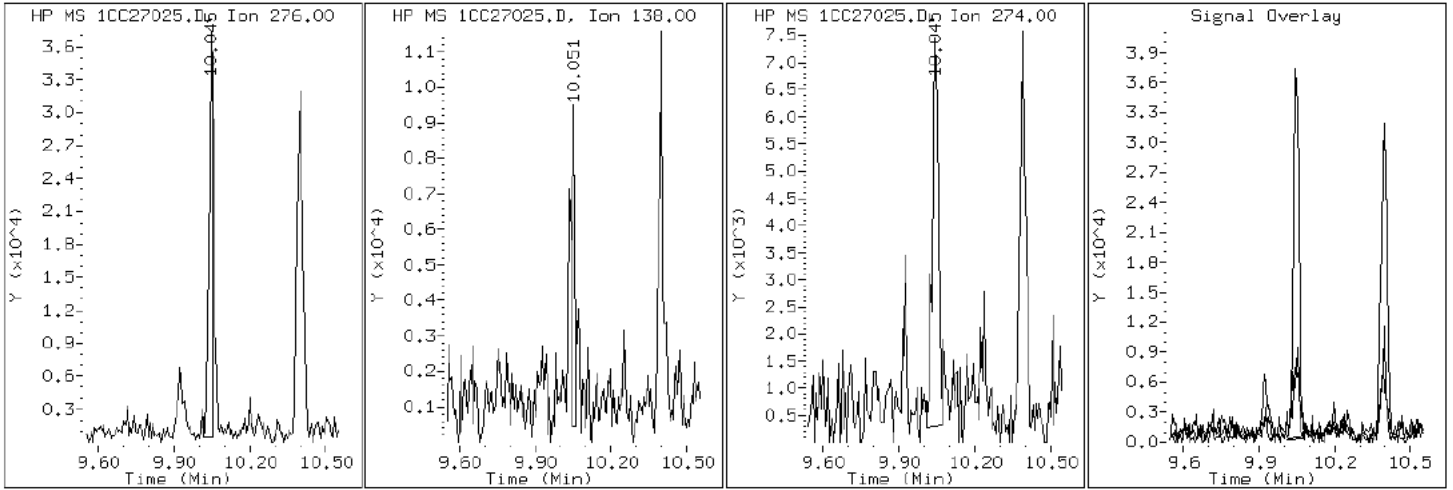
Client ID: FM0168A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-31-a

Operator: SCC

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



Data File: 1CC27025.D

Date: 27-MAR-2013 17:31

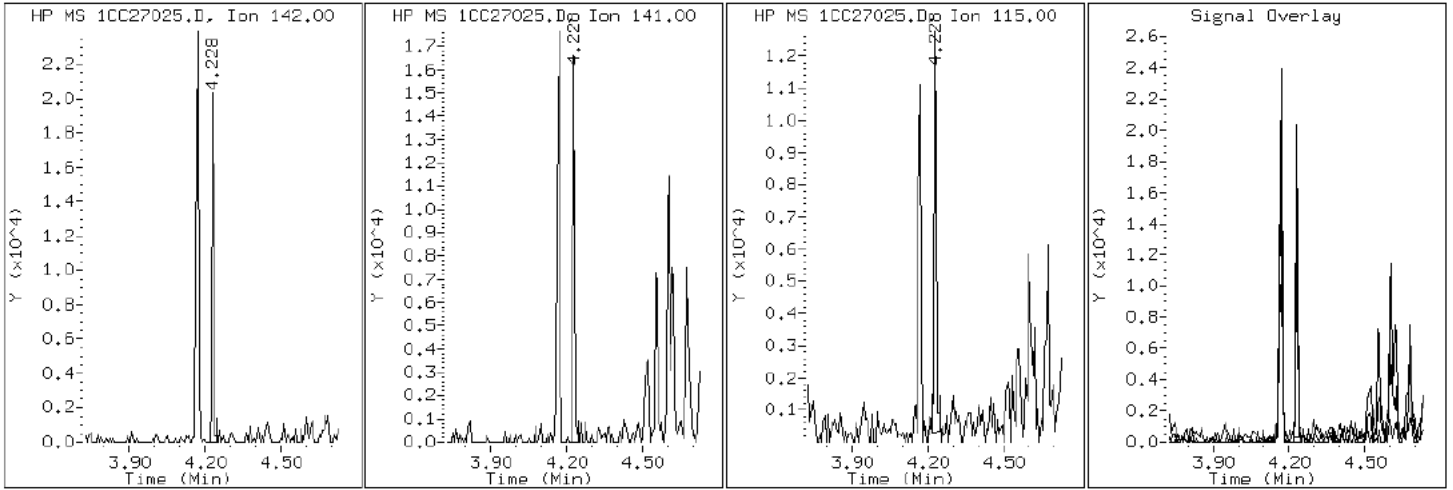
Client ID: FM0168A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-31-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC27025.D

Date: 27-MAR-2013 17:31

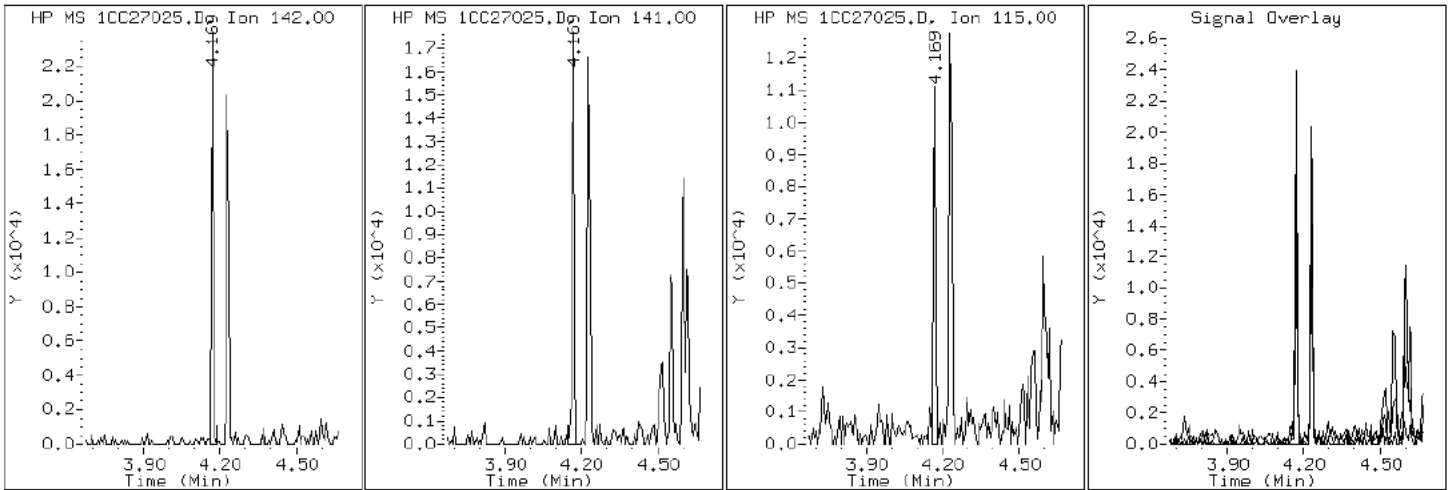
Client ID: FM0168A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-31-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC27025.D

Date: 27-MAR-2013 17:31

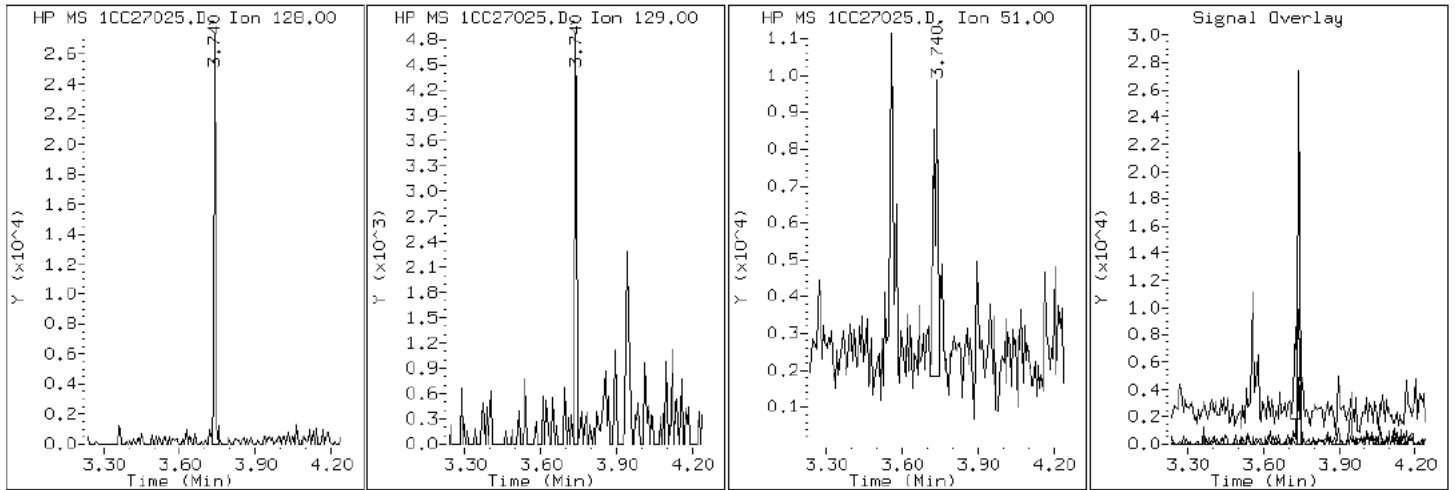
Client ID: FM0168A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-31-a

Operator: SCC

2 Naphthalene



Data File: 1CC27025.D

Date: 27-MAR-2013 17:31

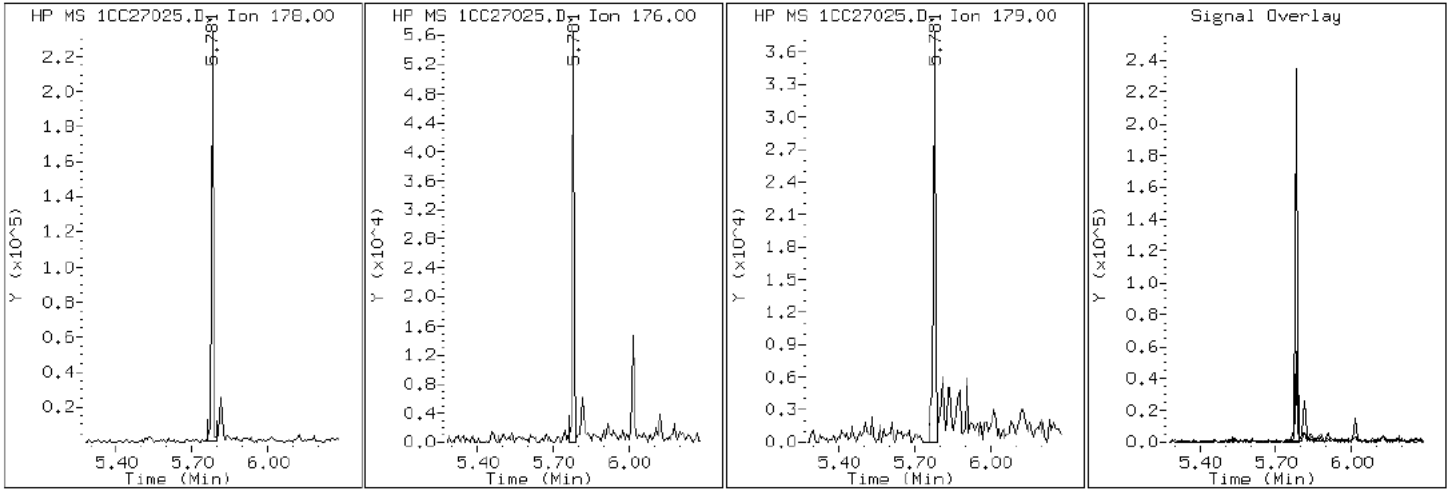
Client ID: FM0168A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-31-a

Operator: SCC

11 Phenanthrene



Data File: 1CC27025.D

Date: 27-MAR-2013 17:31

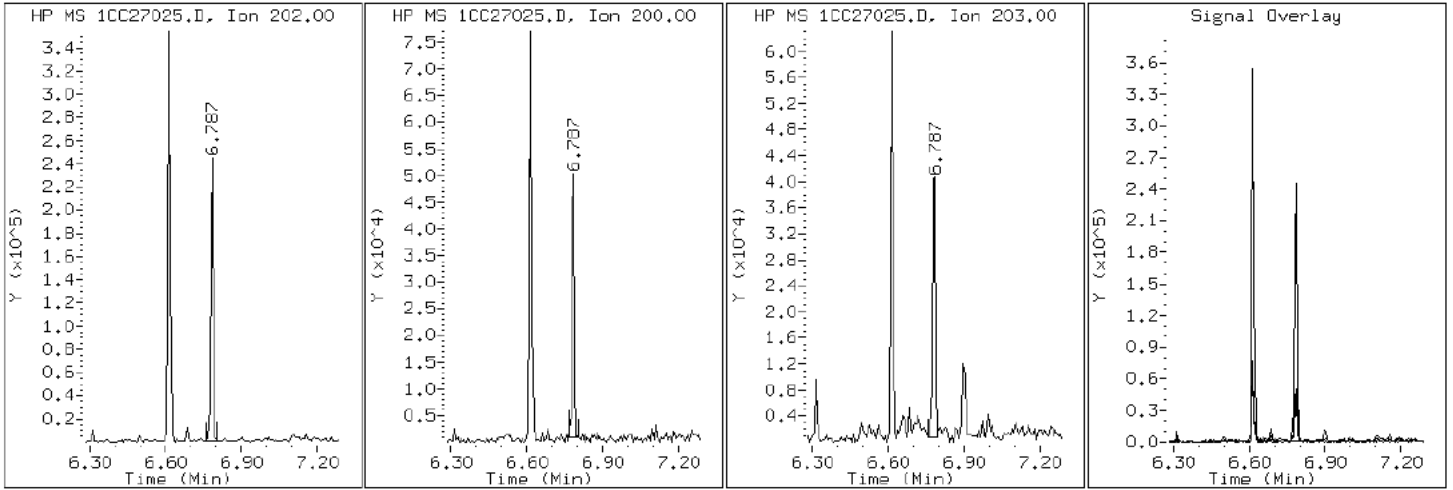
Client ID: FM0168A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-31-a

Operator: SCC

16 Pyrene



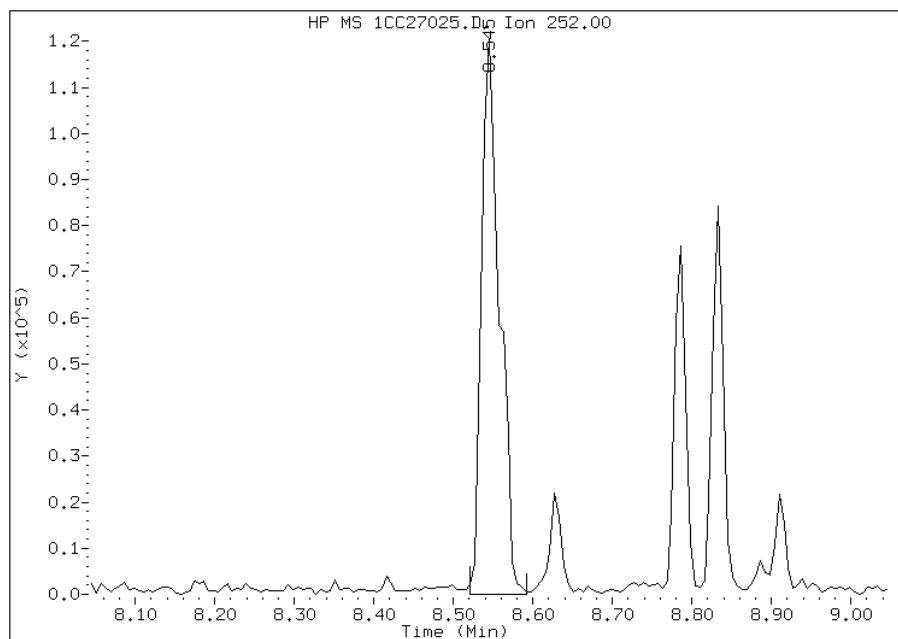


# Manual Integration Report

Data File: 1CC27025.D  
Inj. Date and Time: 27-MAR-2013 17:31  
Instrument ID: BSMC5973.i  
Client ID: FM0168A-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/01/2013

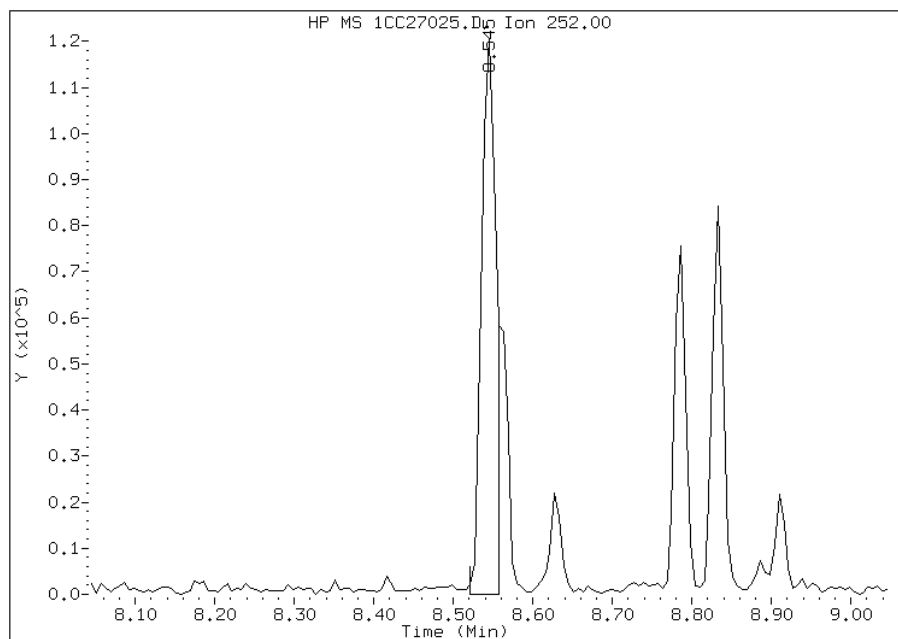
## Processing Integration Results

RT: 8.55  
Response: 188685  
Amount: 7  
Conc: 592



## Manual Integration Results

RT: 8.55  
Response: 152111  
Amount: 5  
Conc: 477



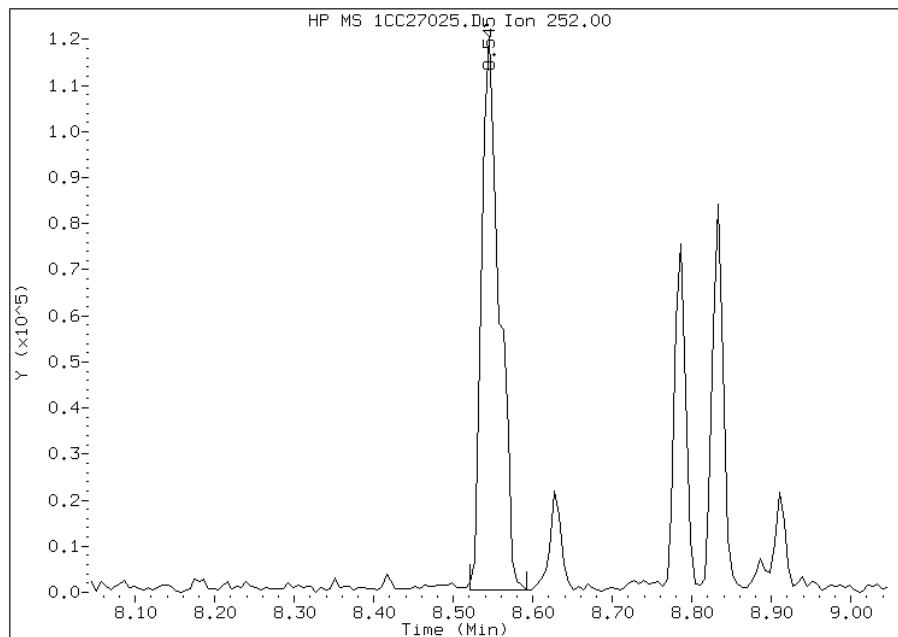
Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:29  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CC27025.D  
Inj. Date and Time: 27-MAR-2013 17:31  
Instrument ID: BSMC5973.i  
Client ID: FM0168A-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/01/2013

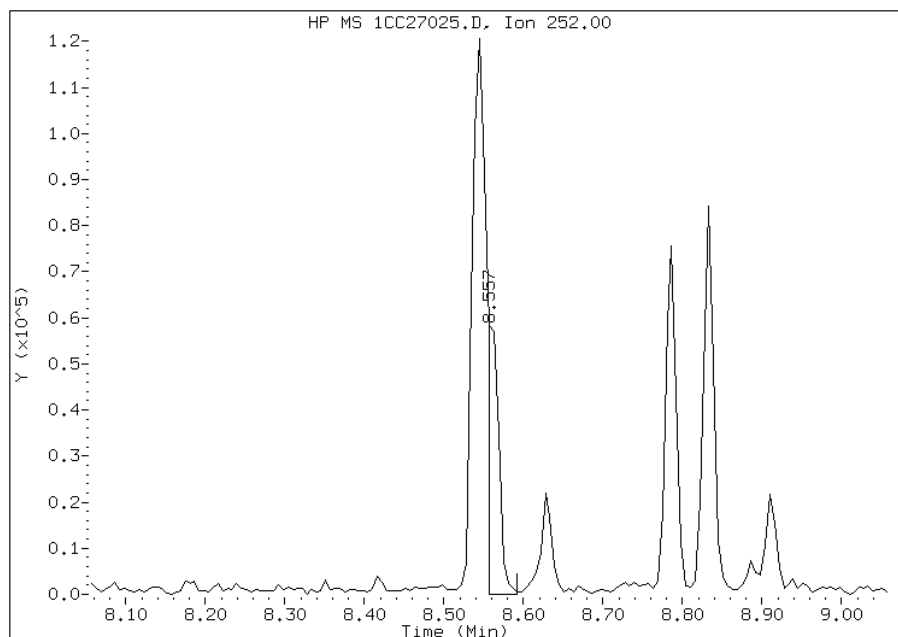
## Processing Integration Results

RT: 8.55  
Response: 186180  
Amount: 6  
Conc: 570



## Manual Integration Results

RT: 8.56  
Response: 56959  
Amount: 2  
Conc: 174



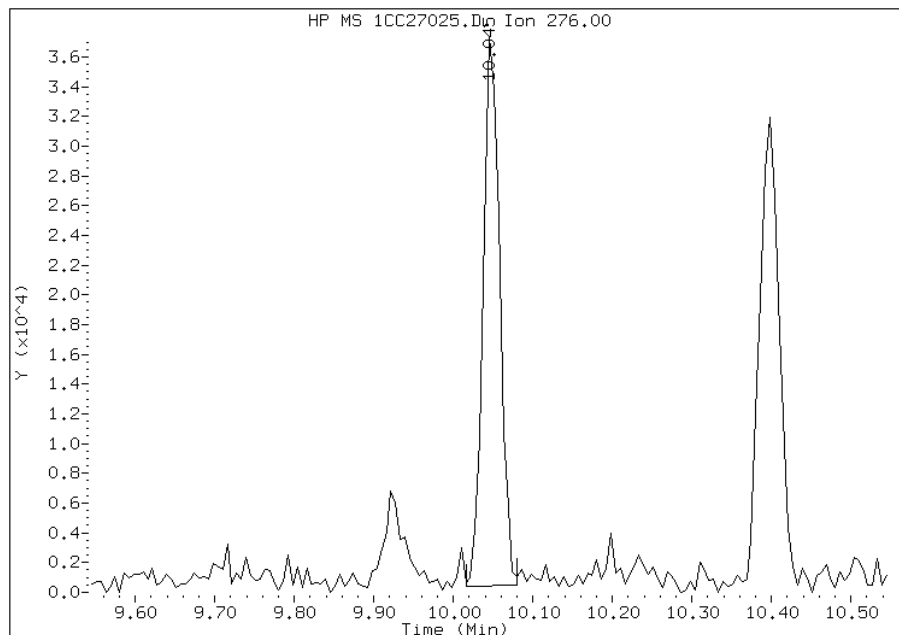
Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:30  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CC27025.D  
Inj. Date and Time: 27-MAR-2013 17:31  
Instrument ID: BSMC5973.i  
Client ID: FM0168A-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/01/2013

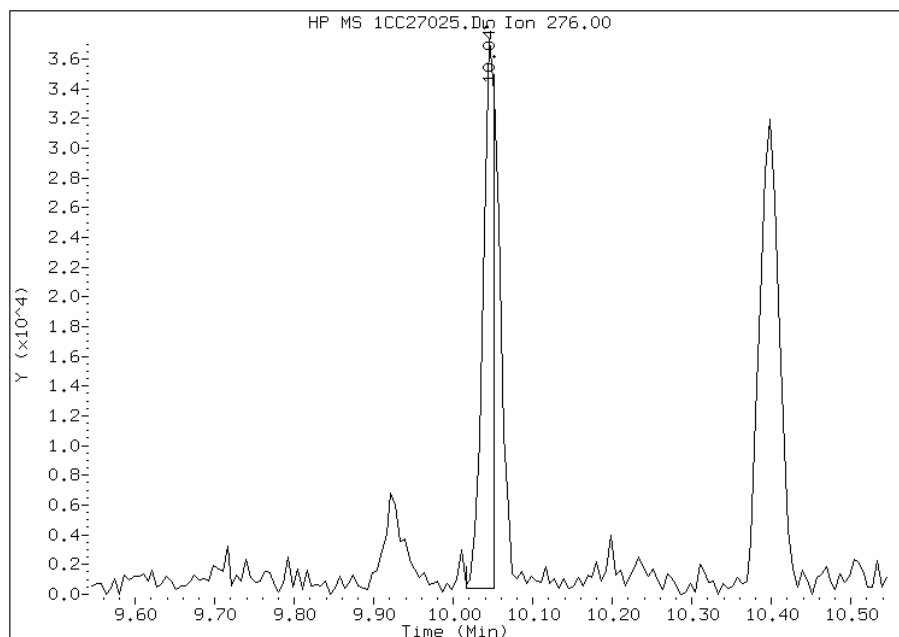
## Processing Integration Results

RT: 10.05  
Response: 53163  
Amount: 2  
Conc: 183



## Manual Integration Results

RT: 10.05  
Response: 38396  
Amount: 1  
Conc: 132



Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:30  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Client Sample ID: FM0168B-CS-SP Lab Sample ID: 680-88592-32  
 Matrix: Solid Lab File ID: 1CC27026.D  
 Analysis Method: 8270C LL Date Collected: 03/20/2013 14:55  
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07  
 Sample wt/vol: 15.12(g) Date Analyzed: 03/27/2013 17:49  
 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.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	100
208-96-8	Acenaphthylene	170	J	200	25
120-12-7	Anthracene	180		42	21
56-55-3	Benzo[a]anthracene	750		40	19
50-32-8	Benzo[a]pyrene	720		52	26
205-99-2	Benzo[b]fluoranthene	1300		61	30
191-24-2	Benzo[g,h,i]perylene	660		100	22
207-08-9	Benzo[k]fluoranthene	450		40	18
218-01-9	Chrysene	830		45	22
53-70-3	Dibenz(a,h)anthracene	200		100	20
206-44-0	Fluoranthene	1400		100	20
86-73-7	Fluorene	65	J	100	20
193-39-5	Indeno[1,2,3-cd]pyrene	500		100	35
90-12-0	1-Methylnaphthalene	150	J	200	22
91-57-6	2-Methylnaphthalene	170	J	200	35
91-20-3	Naphthalene	160	J	200	22
85-01-8	Phenanthrene	710		40	19
129-00-0	Pyrene	1200		100	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	81		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27026.D  
 Lab Smp Id: 680-88592-A-32-A Client Smp ID: FM0168B-CS-SP  
 Inj Date : 27-MAR-2013 17:49  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88592-a-32-a  
 Misc Info : 680-88592-A-32-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m  
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
 Als bottle: 26  
 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	15.120	Weight Extracted
M	20.426	% 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		3.727	3.727	(1.000)	775985	40.0000		
* 6 Acenaphthene-d10	164		4.815	4.815	(1.000)	592873	40.0000		
* 10 Phenanthrene-d10	188		5.762	5.762	(1.000)	1099795	40.0000		
\$ 14 o-Terphenyl	230		6.015	6.015	(1.044)	33766	2.03348	676.0431	
* 18 Chrysene-d12	240		7.703	7.704	(1.000)	1197914	40.0000		
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1148193	40.0000		
2 Naphthalene	128		3.739	3.739	(1.003)	9939	0.49199	163.5635(Q)	
3 2-Methylnaphthalene	142		4.168	4.168	(1.118)	6807	0.50514	167.9365	
4 1-Methylnaphthalene	142		4.233	4.227	(1.136)	5646	0.46004	152.9417	
5 Acenaphthylene	152		4.727	4.727	(0.982)	11946	0.49977	166.1531	
9 Fluorene	166		5.151	5.157	(1.070)	3688	0.19628	65.2552	
11 Phenanthrene	178		5.780	5.780	(1.003)	67862	2.13394	709.4428	
12 Anthracene	178		5.815	5.815	(1.009)	16729	0.53789	178.8235	
13 Carbazole	167		5.921	5.921	(1.028)	14539	0.52588	174.8322	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.615	6.615	(1.148)	142570	4.09376	1360.9960
16 Pyrene	202	6.786	6.786	(0.881)	116449	3.61730	1202.5947
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	78270	2.26383	752.6251
19 Chrysene	228	7.727	7.727	(1.003)	86440	2.49826	830.5620
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	114506	3.81603	1268.6639(M)
21 Benzo(k)fluoranthene	252	8.556	8.562	(0.963)	41949	1.36277	453.0627(QM)
22 Benzo(a)pyrene	252	8.833	8.833	(0.994)	62834	2.15582	716.7163
24 Indeno(1,2,3-cd)pyrene	276	10.045	10.050	(1.130)	41025	1.49626	497.4418(M)
25 Dibenzo(a,h)anthracene	278	10.062	10.068	(1.132)	16009	0.59693	198.4525
26 Benzo(g,h,i)perylene	276	10.403	10.397	(1.171)	56889	1.98345	659.4098(M)

QC Flag Legend

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

Data File: 1CC27026.D

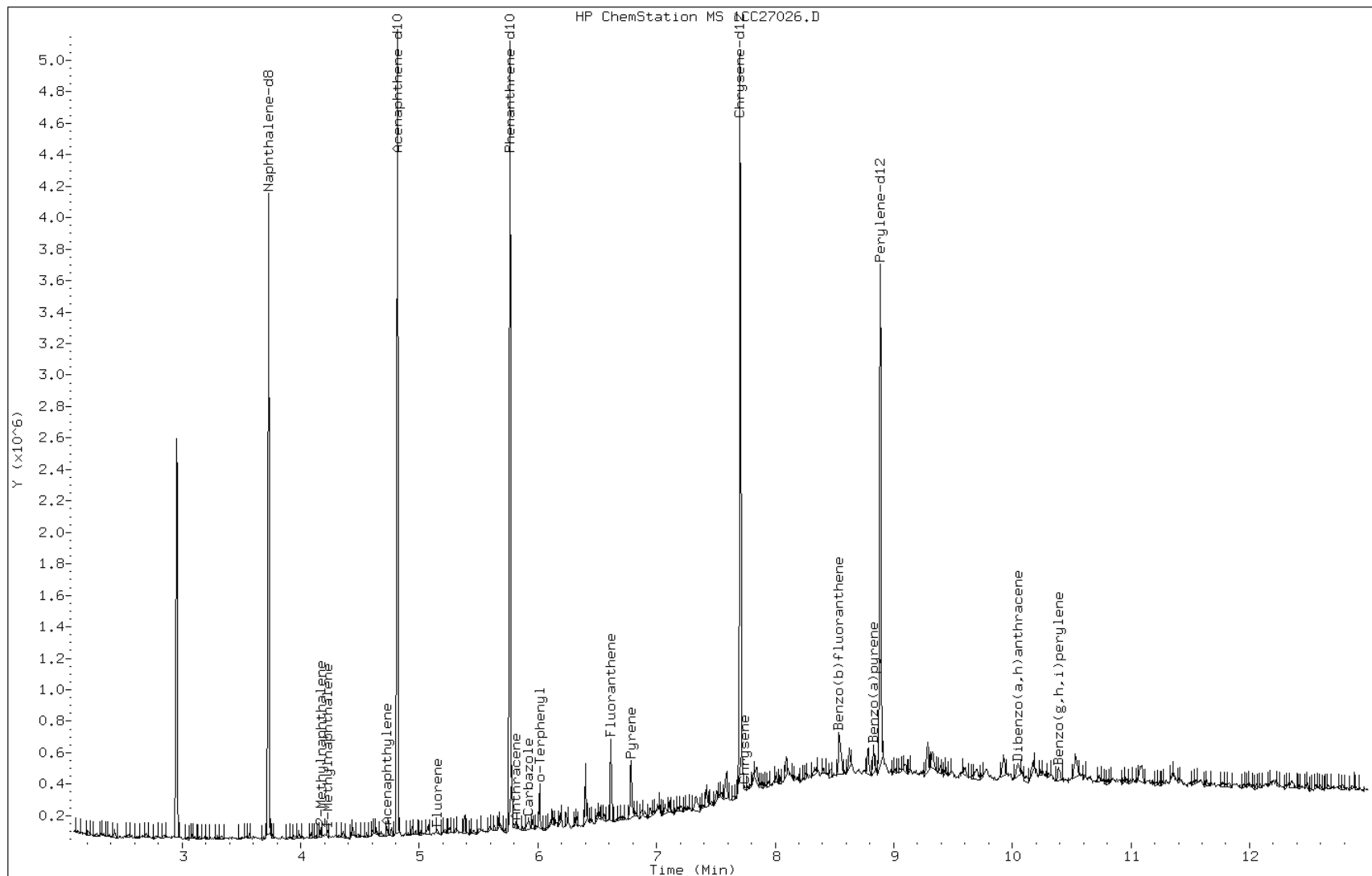
Date: 27-MAR-2013 17:49

Client ID: FM0168B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-32-a

Operator: SCC



Data File: 1CC27026.D

Date: 27-MAR-2013 17:49

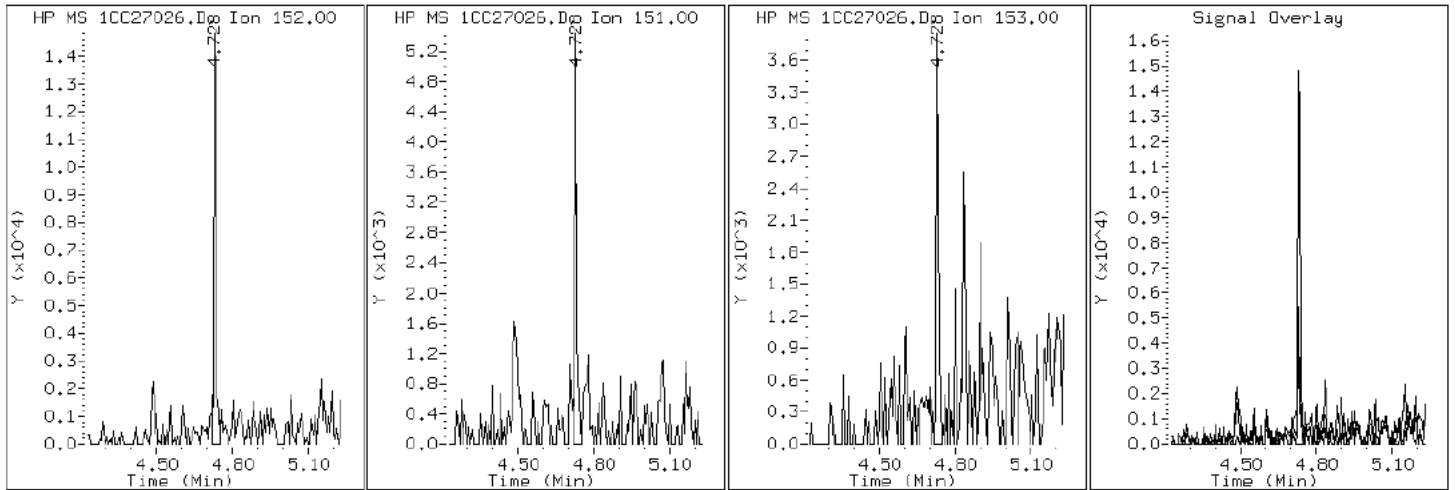
Client ID: FM0168B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-32-a

Operator: SCC

5 Acenaphthylene





Data File: 1CC27026.D

Date: 27-MAR-2013 17:49

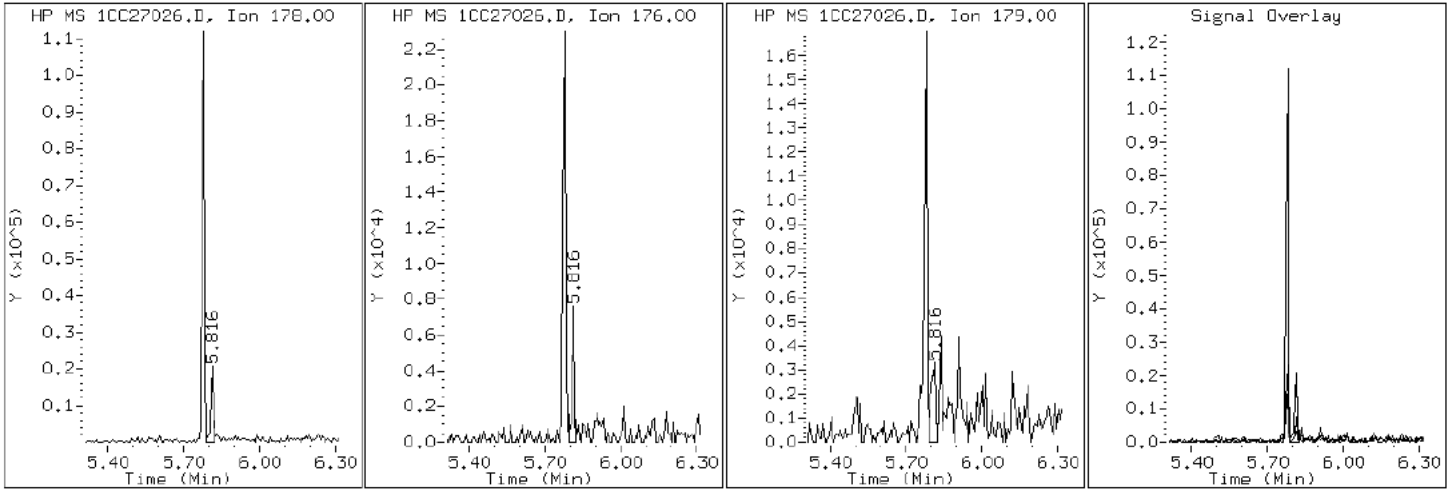
Client ID: FM0168B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-32-a

Operator: SCC

12 Anthracene



Data File: 1CC27026.D

Date: 27-MAR-2013 17:49

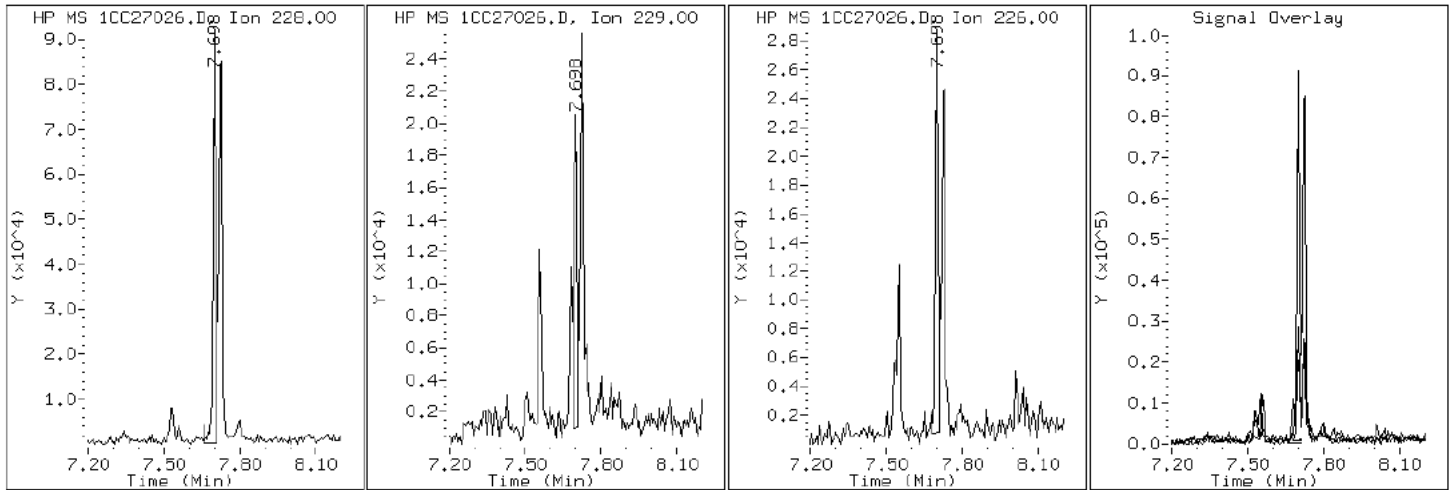
Client ID: FM0168B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-32-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC27026.D

Date: 27-MAR-2013 17:49

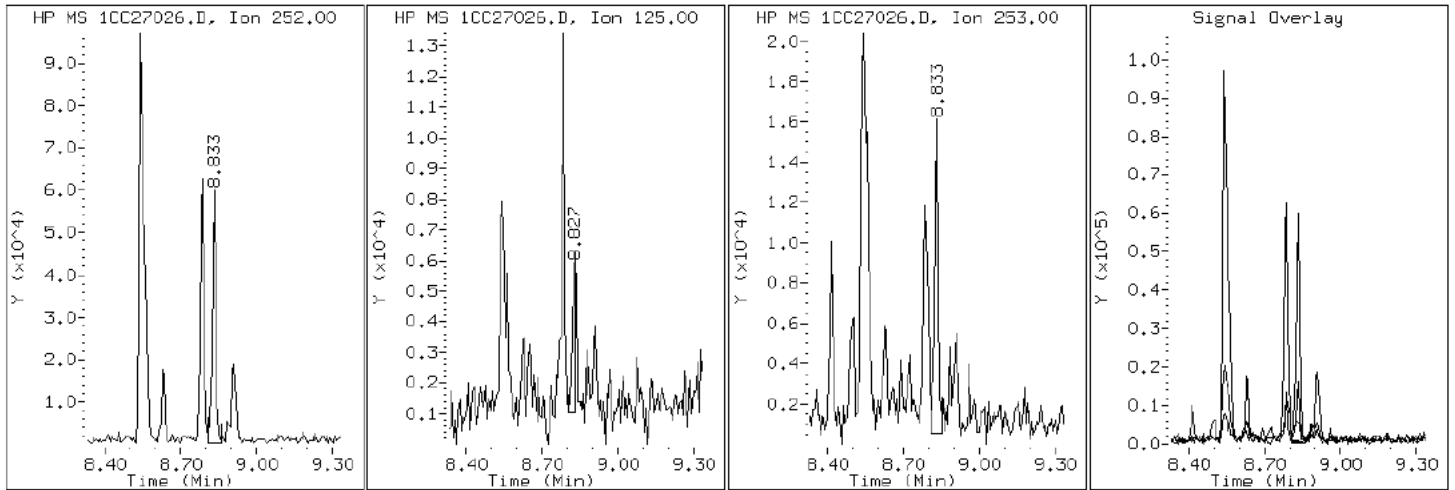
Client ID: FM0168B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-32-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC27026.D

Date: 27-MAR-2013 17:49

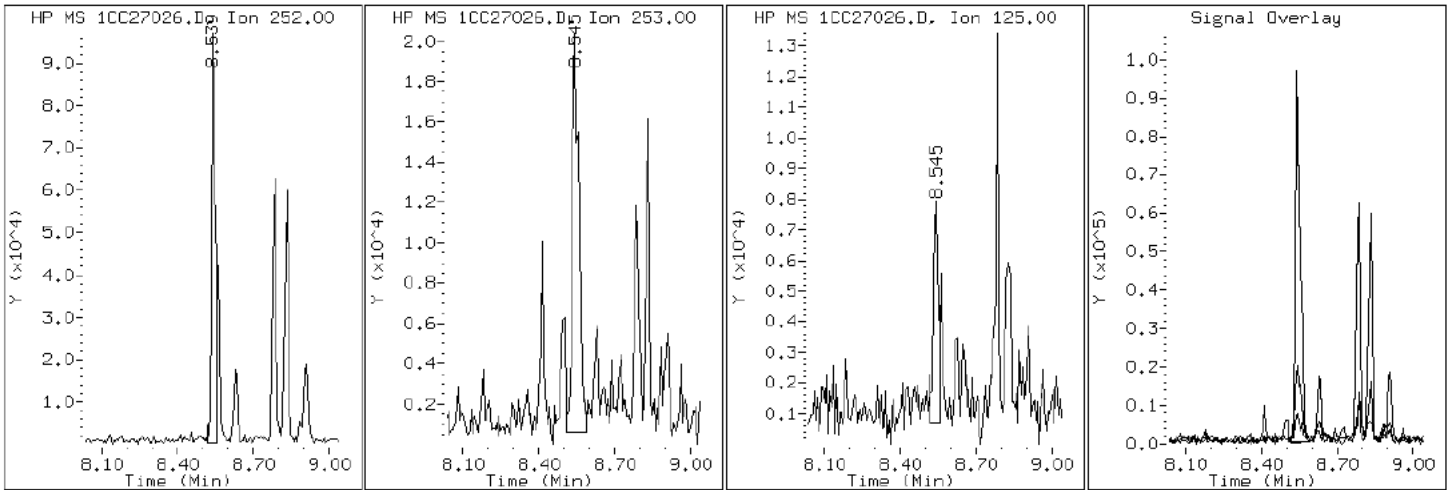
Client ID: FM0168B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-32-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC27026.D

Date: 27-MAR-2013 17:49

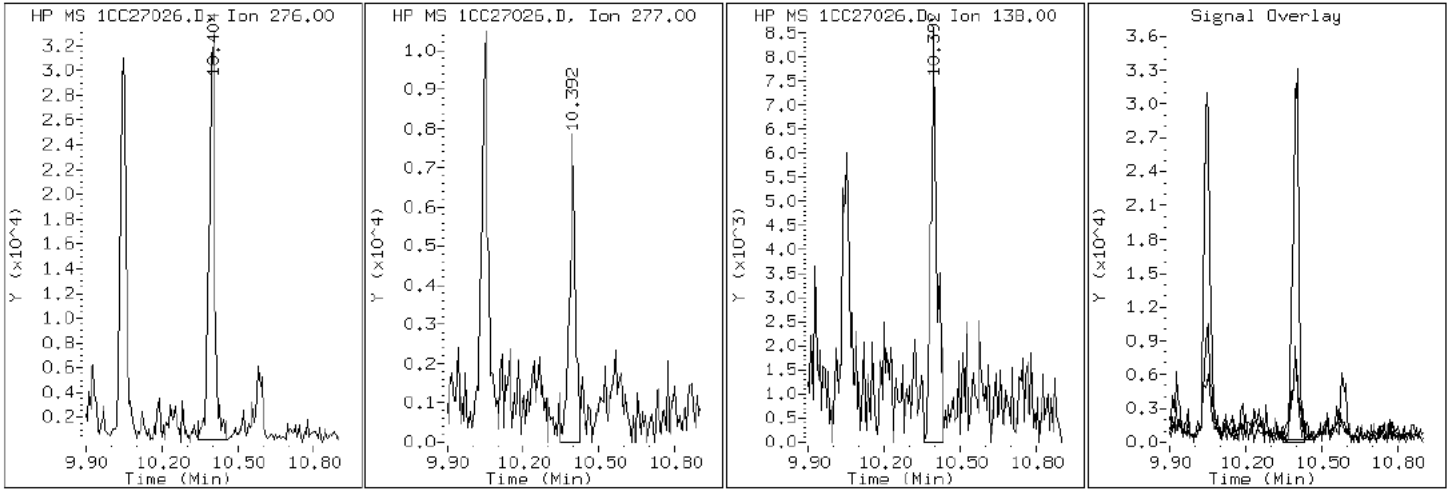
Client ID: FM0168B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-32-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC27026.D

Date: 27-MAR-2013 17:49

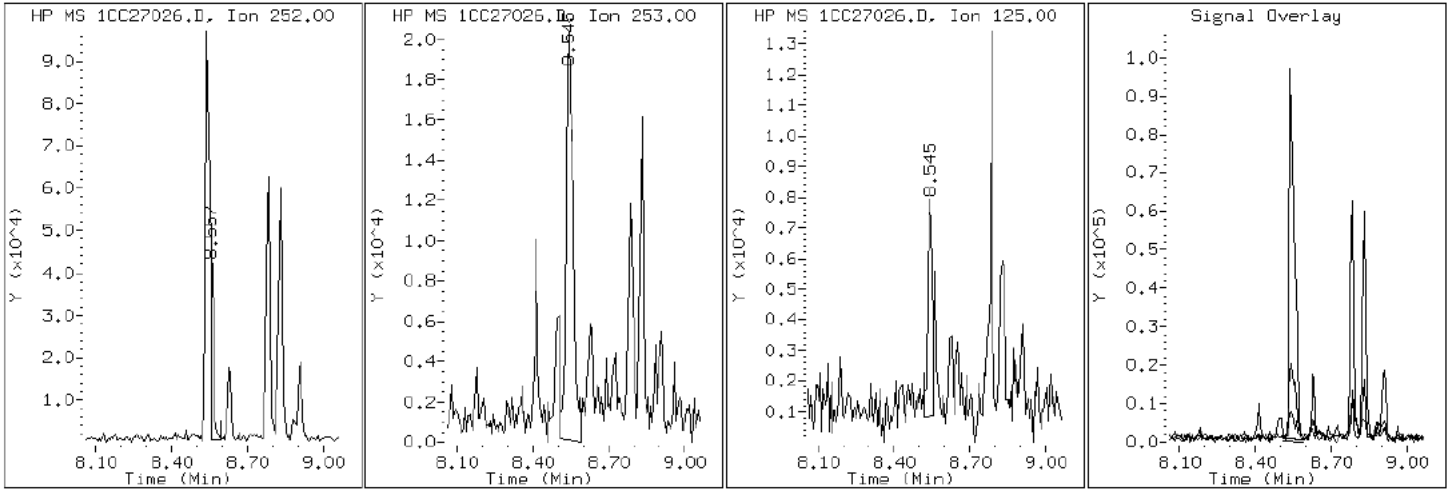
Client ID: FM0168B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-32-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC27026.D

Date: 27-MAR-2013 17:49

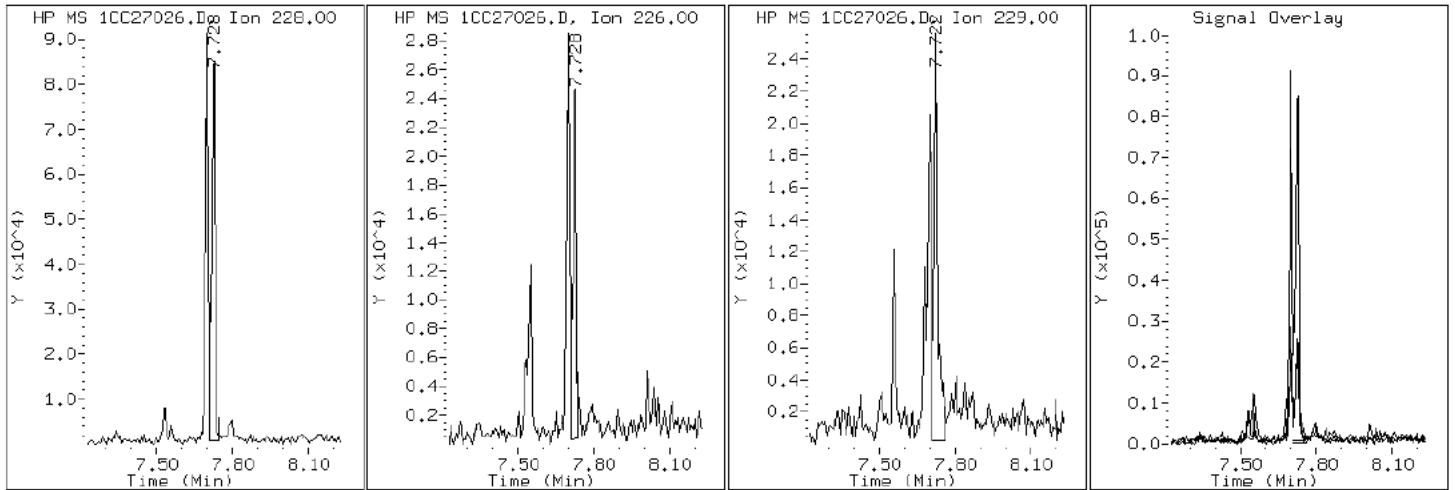
Client ID: FM0168B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-32-a

Operator: SCC

19 Chrysene



Data File: 1CC27026.D

Date: 27-MAR-2013 17:49

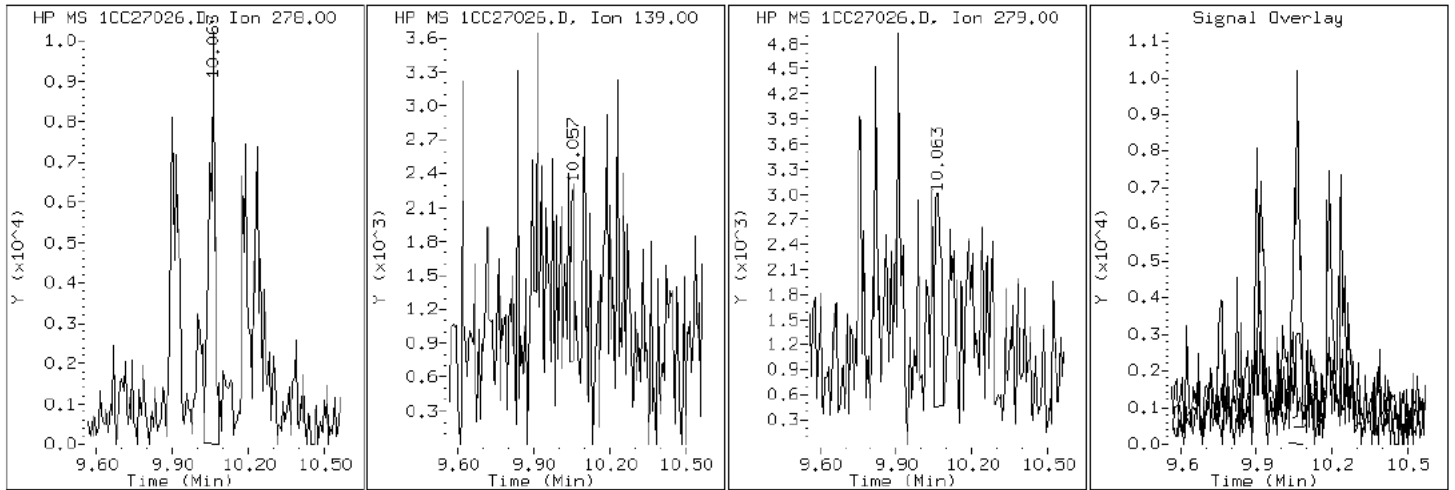
Client ID: FM0168B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-32-a

Operator: SCC

25 Dibenzo (a,h) anthracene





Data File: 1CC27026.D

Date: 27-MAR-2013 17:49

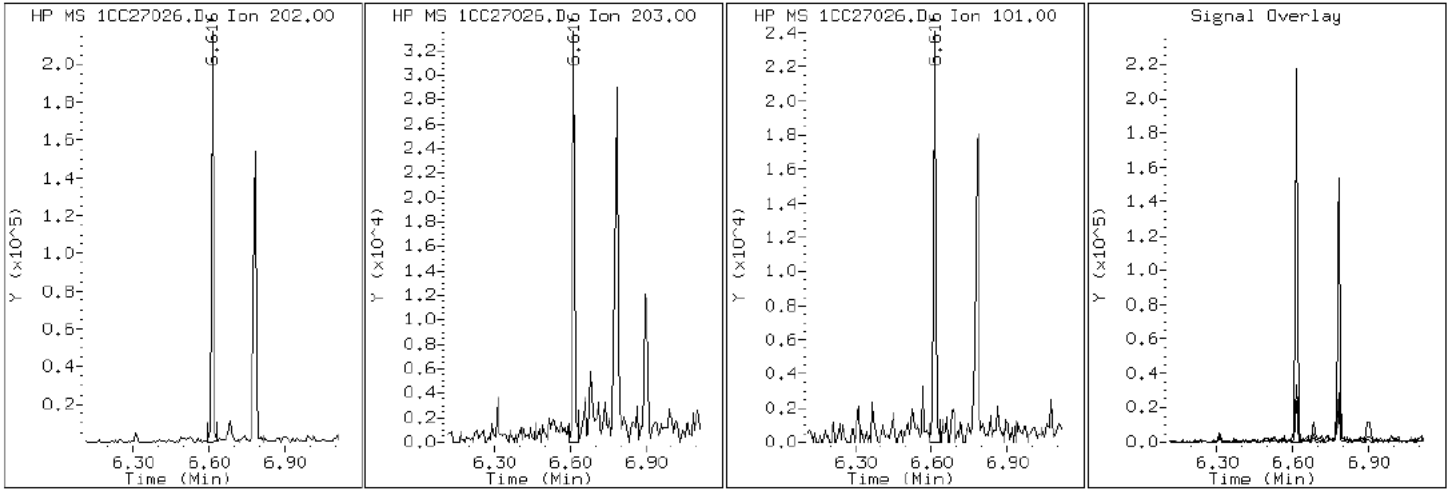
Client ID: FM0168B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-32-a

Operator: SCC

15 Fluoranthene



Data File: 1CC27026.D

Date: 27-MAR-2013 17:49

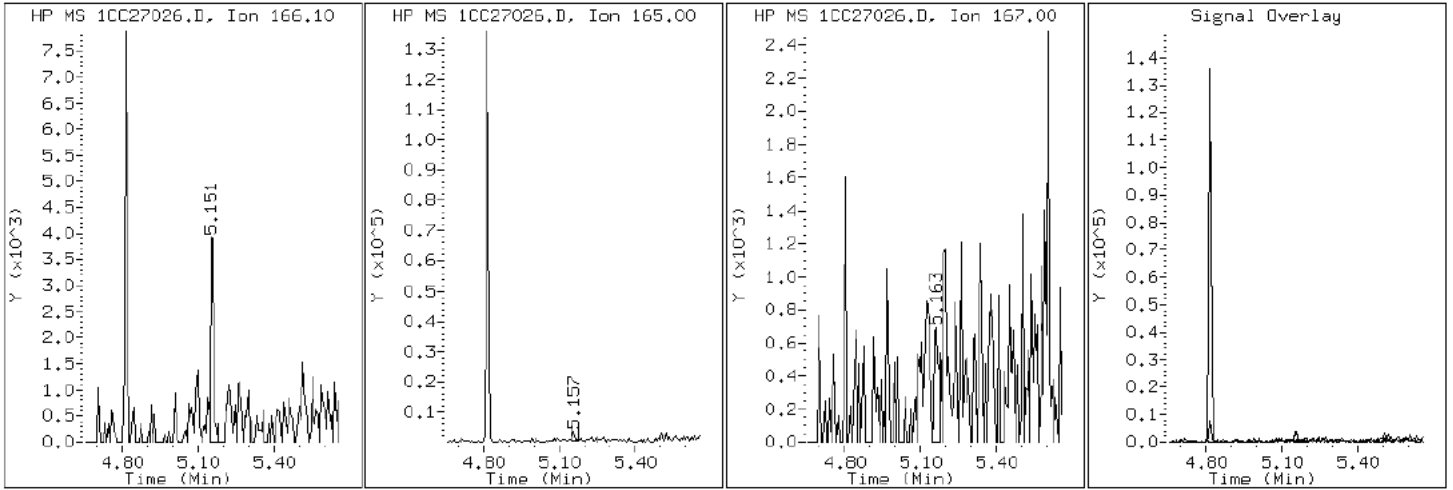
Client ID: FM0168B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-32-a

Operator: SCC

9 Fluorene



Data File: 1CC27026.D

Date: 27-MAR-2013 17:49

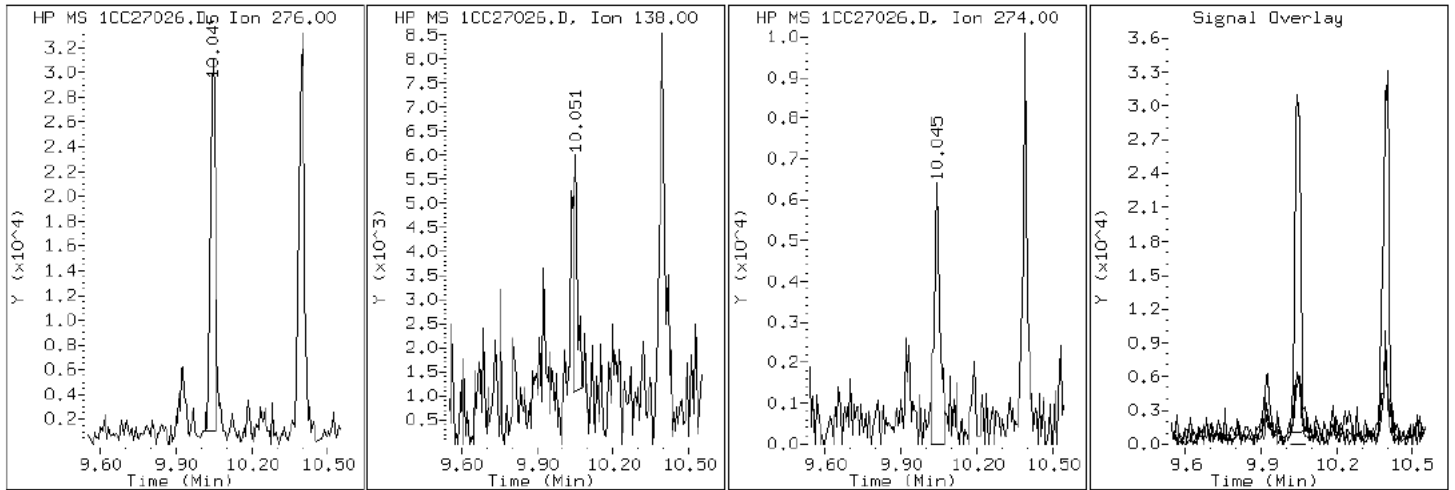
Client ID: FM0168B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-32-a

Operator: SCC

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



Data File: 1CC27026.D

Date: 27-MAR-2013 17:49

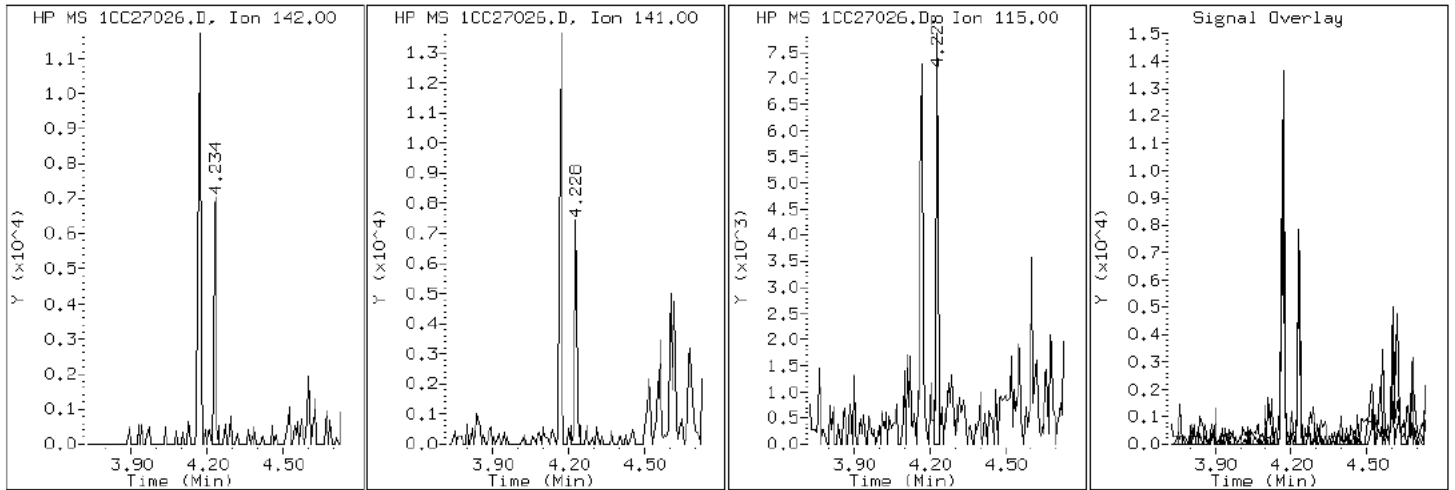
Client ID: FM0168B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-32-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC27026.D

Date: 27-MAR-2013 17:49

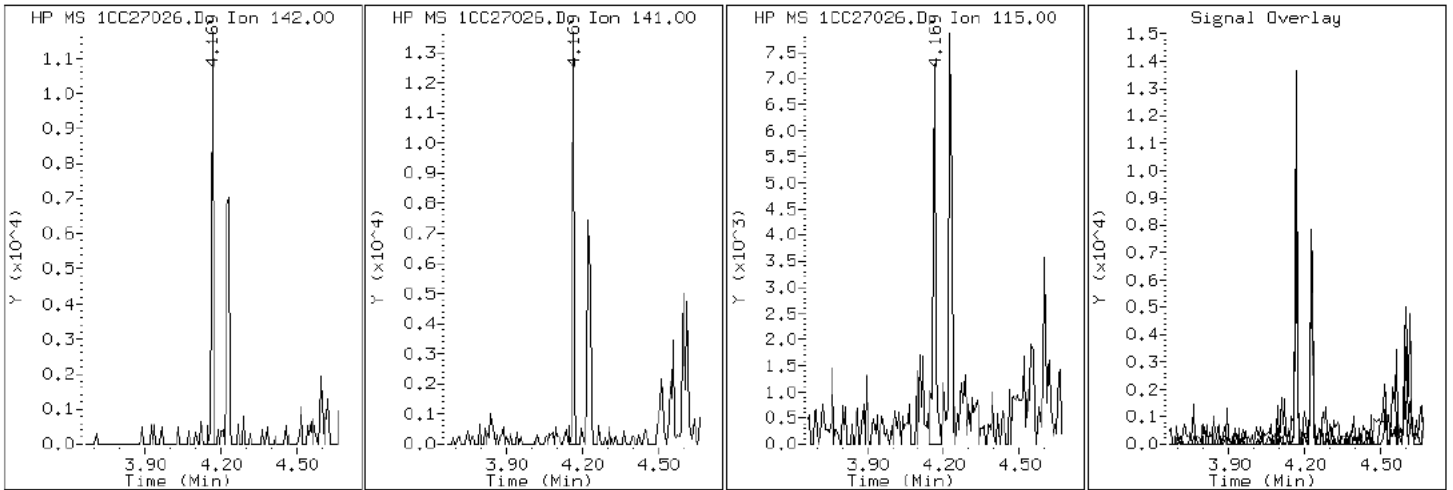
Client ID: FM0168B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-32-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC27026.D

Date: 27-MAR-2013 17:49

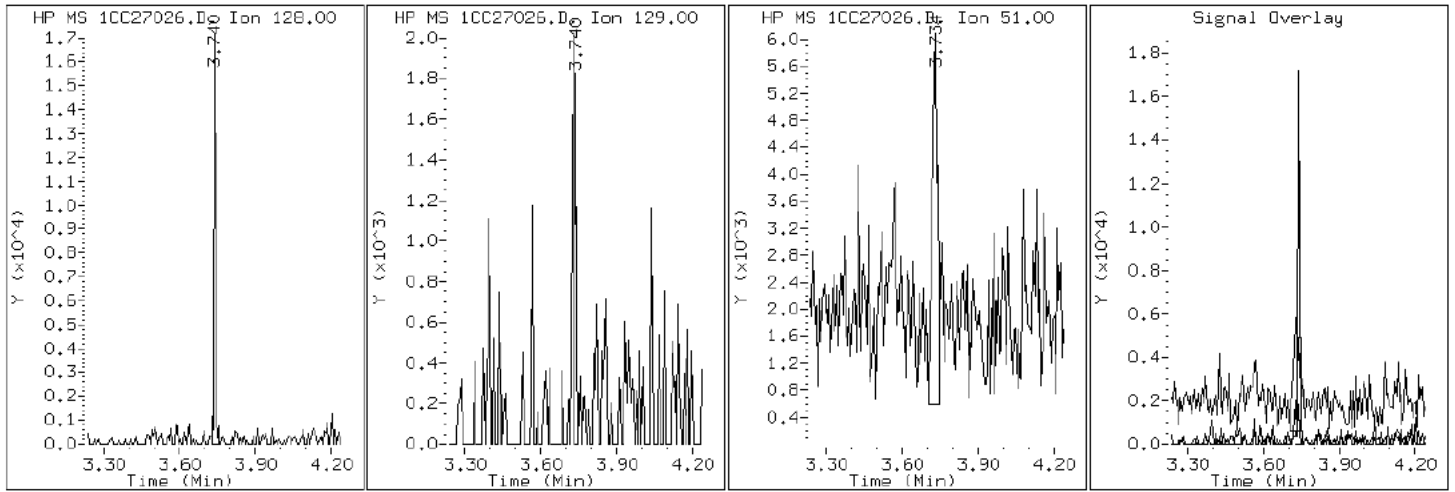
Client ID: FM0168B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-32-a

Operator: SCC

2 Naphthalene



Data File: 1CC27026.D

Date: 27-MAR-2013 17:49

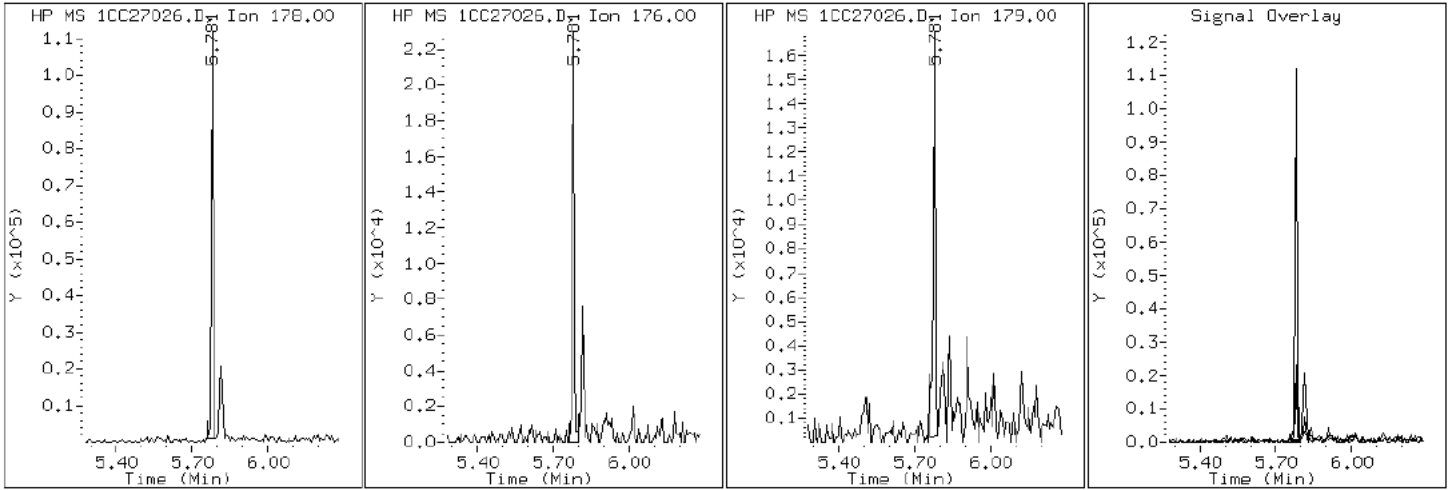
Client ID: FM0168B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-32-a

Operator: SCC

11 Phenanthrene



Data File: 1CC27026.D

Date: 27-MAR-2013 17:49

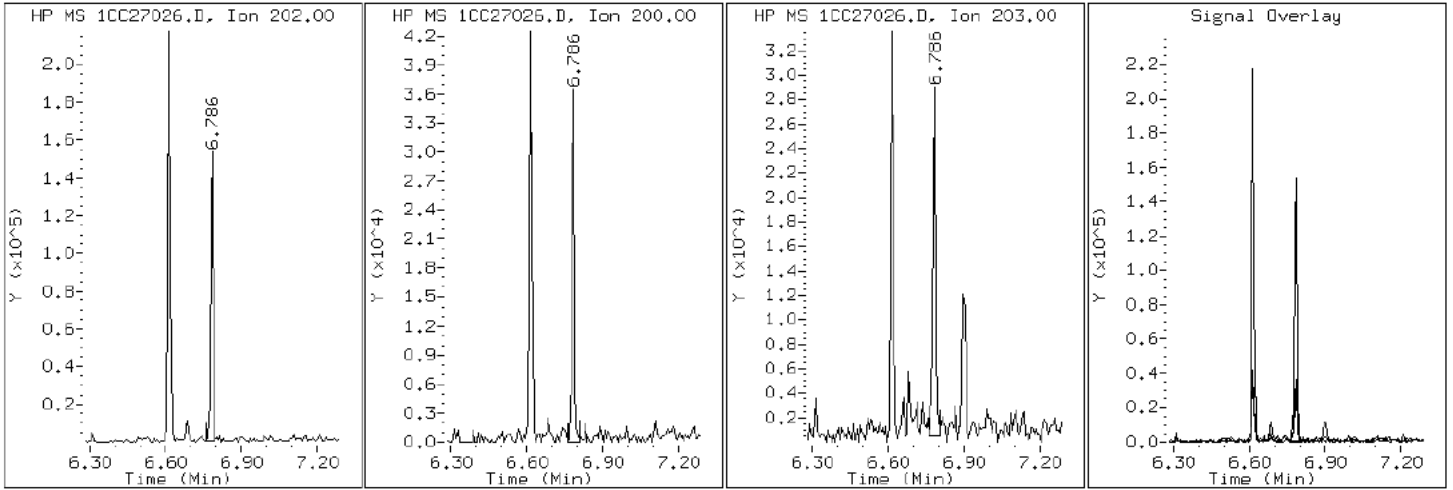
Client ID: FM0168B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88592-a-32-a

Operator: SCC

16 Pyrene



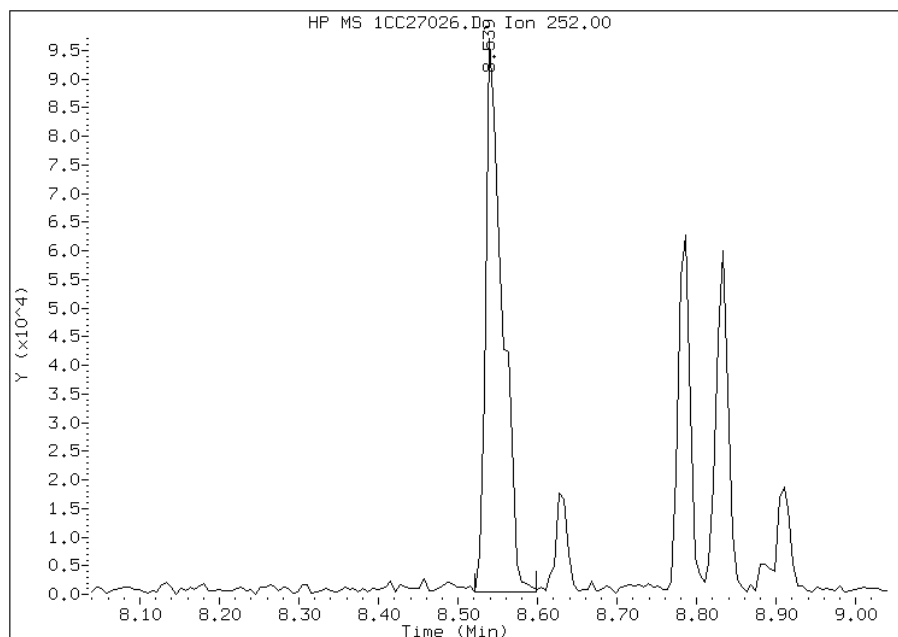


# Manual Integration Report

Data File: 1CC27026.D  
Inj. Date and Time: 27-MAR-2013 17:49  
Instrument ID: BSMC5973.i  
Client ID: FM0168B-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/01/2013

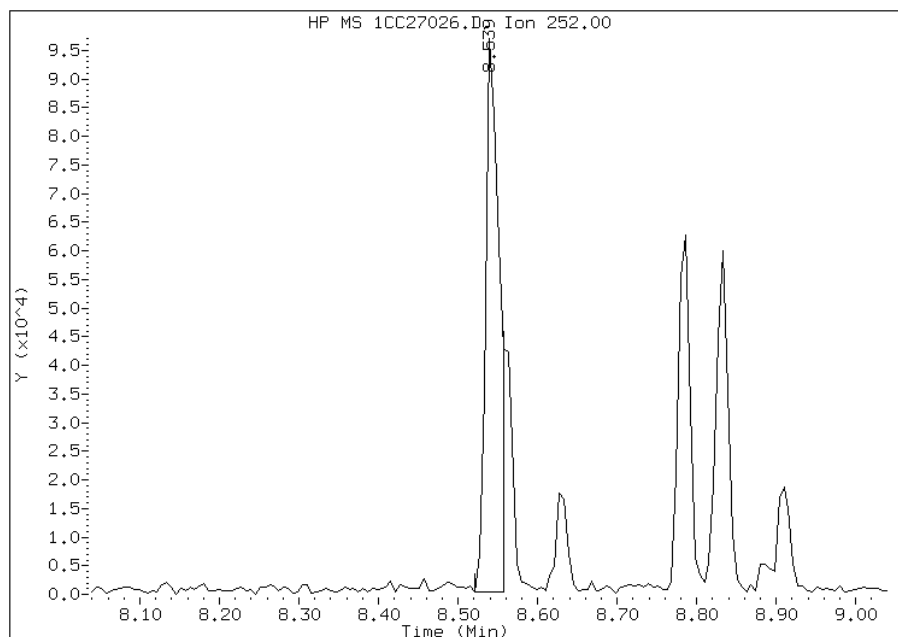
## Processing Integration Results

RT: 8.54  
Response: 142079  
Amount: 5  
Conc: 1574



## Manual Integration Results

RT: 8.54  
Response: 114506  
Amount: 4  
Conc: 1269



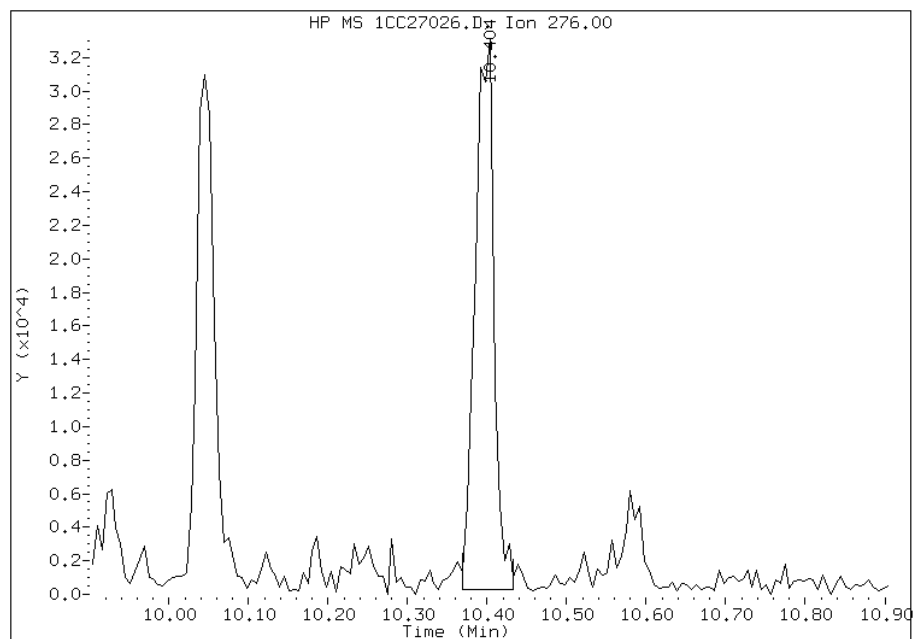
Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:31  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CC27026.D  
Inj. Date and Time: 27-MAR-2013 17:49  
Instrument ID: BSMC5973.i  
Client ID: FM0168B-CS-SP  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/01/2013

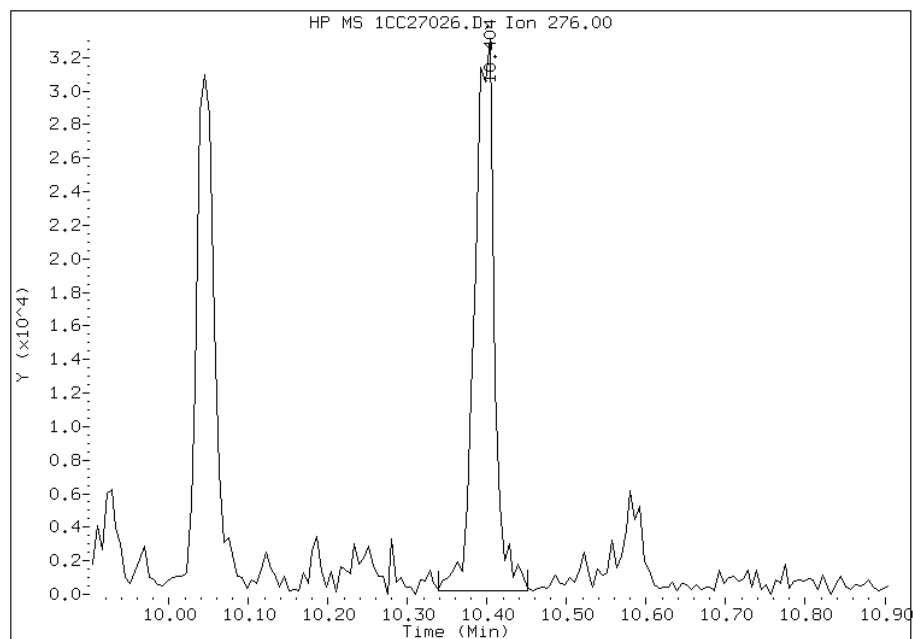
## Processing Integration Results

RT: 10.40  
Response: 54181  
Amount: 2  
Conc: 628



## Manual Integration Results

RT: 10.40  
Response: 56889  
Amount: 2  
Conc: 659



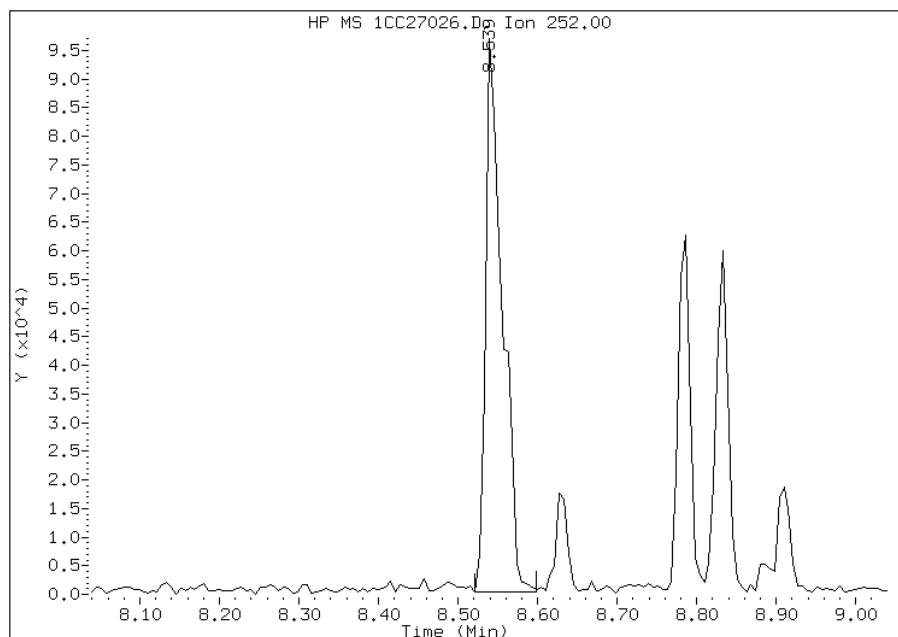
Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:31  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CC27026.D  
Inj. Date and Time: 27-MAR-2013 17:49  
Instrument ID: BSMC5973.i  
Client ID: FM0168B-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/01/2013

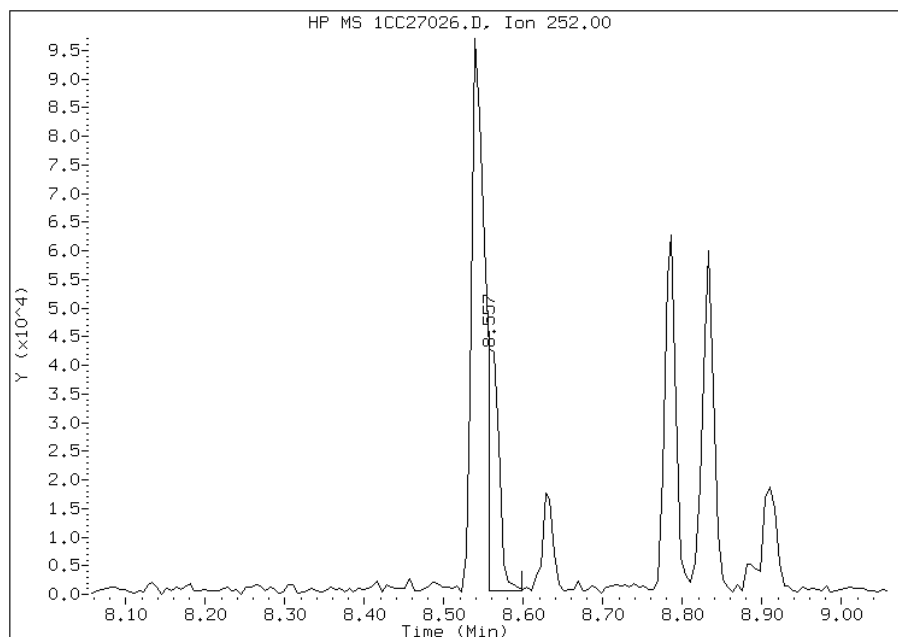
## Processing Integration Results

RT: 8.54  
Response: 142079  
Amount: 5  
Conc: 1534



## Manual Integration Results

RT: 8.56  
Response: 41949  
Amount: 1  
Conc: 453



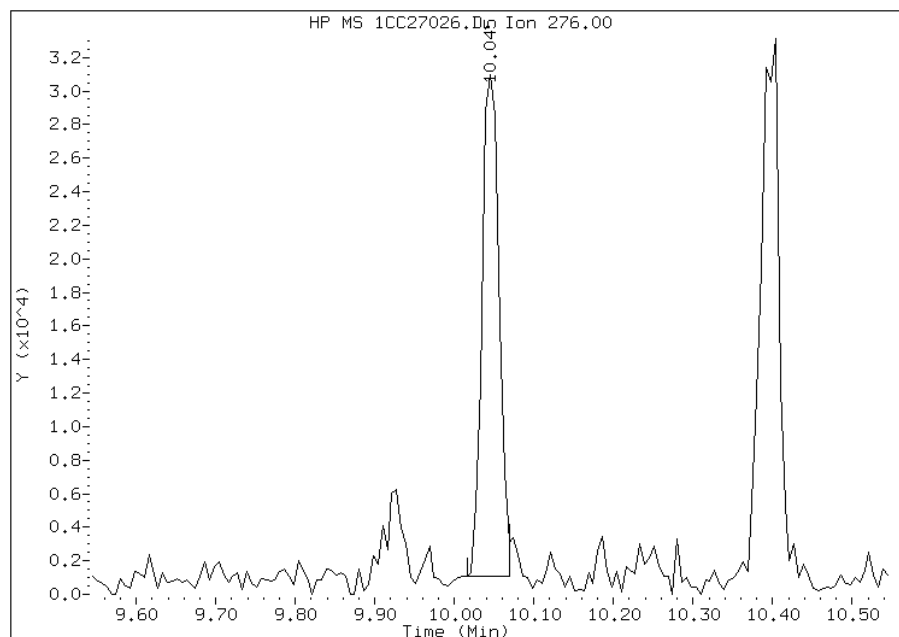
Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:31  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CC27026.D  
Inj. Date and Time: 27-MAR-2013 17:49  
Instrument ID: BSMC5973.i  
Client ID: FM0168B-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/01/2013

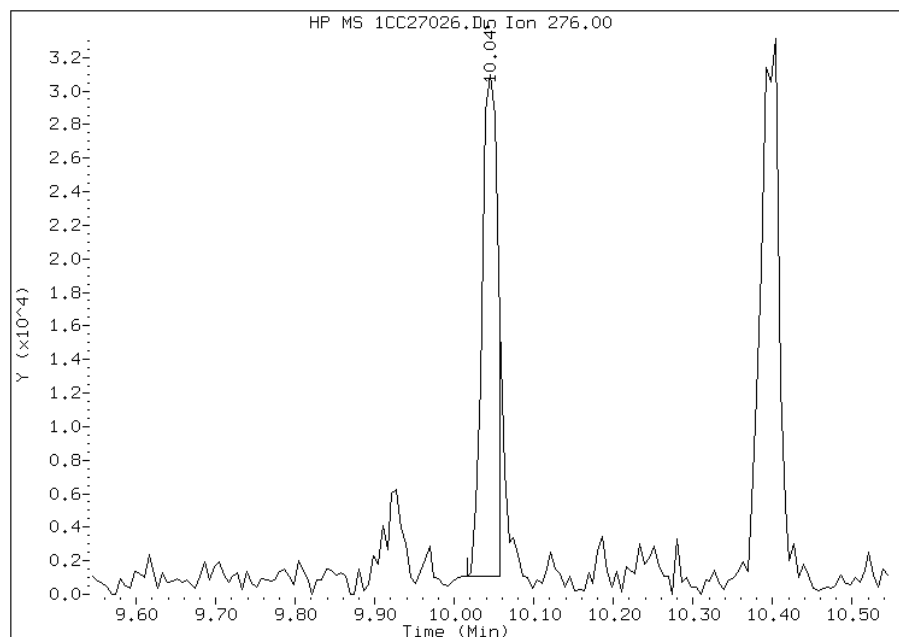
## Processing Integration Results

RT: 10.05  
Response: 43965  
Amount: 2  
Conc: 533



## Manual Integration Results

RT: 10.05  
Response: 41025  
Amount: 1  
Conc: 497



Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:32  
Manual Integration Reason: Split Peak

FORM VI  
GC/MS SEMI VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-88592-2 Analy Batch No.: 134776

SDG No.: 68088592-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134776/3	1CB22003.D
Level 2	IC 660-134776/4	1CB22004.D
Level 3	IC 660-134776/5	1CB22005.D
Level 4	IC 660-134776/6	1CB22006.D
Level 5	ICIS 660-134776/7	1CB22007.D
Level 6	IC 660-134776/8	1CB22008.D
Level 7	IC 660-134776/9	1CB22009.D

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															
Naphthalene	0.9712 1.0467	1.0104 1.0669	1.0471	1.0871	1.0600	Ave		1.0414			0.0000	3.7		15.0			
2-Methylnaphthalene	0.7372 0.6936	0.6277 0.6981	0.6498	0.7330	0.7230	Ave		0.6946			0.0000	6.0		15.0			
1-Methylnaphthalene	0.5602 0.6374	0.5666 0.6603	0.6541	0.6977	0.6523	Ave		0.6326			0.0000	8.0		15.0			
Acenaphthylene	1.6507 1.6289	1.4259 1.6887	1.5782	1.6615	1.6547	Ave		1.6127			0.0000	5.5		15.0			
Acenaphthene	1.1992 0.9520	0.9269 0.9711	1.0052	0.9958	0.9664	Ave		1.0024			0.0000	9.0		15.0			
Fluorene	1.2003 1.2968	1.2155 1.3216	1.2084	1.3213	1.3097	Ave		1.2677			0.0000	4.5		15.0			
Phenanthrene	1.3236 1.1268	1.1829 1.1367	1.1369	1.0982	1.0913	Ave		1.1566			0.0000	6.9		15.0			
Anthracene	1.1830 1.1477	1.0495 1.1690	1.1368	1.1486	1.0836	Ave		1.1312			0.0000	4.2		15.0			
Carbazole	1.1097 0.9866	0.9191 1.0122	0.9992	1.0253	0.9866	Ave		1.0055			0.0000	5.7		15.0			
Fluoranthene	1.3263 1.3062	1.1270 1.2838	1.2811	1.2806	1.2615	Ave		1.2666			0.0000	5.1		15.0			
Pyrene	1.0694 1.0644	1.0908 1.1171	1.0556	1.0637	1.0636	Ave		1.0749			0.0000	2.0		15.0			
Benzo[a]anthracene	1.5187 1.0791	1.1715 1.0797	1.0862	1.0840	1.0620	Ave		1.1545			0.0000	14.3		15.0			
Chrysene	1.3833 1.1146	1.1955 1.1060	1.0804	1.1163	1.0913	Ave		1.1553			0.0000	9.3		15.0			
Benzo[b]fluoranthene	1.0729 1.0767	0.9591 1.0902	0.9699	1.0114	1.1373	Ave		1.0453			0.0000	6.4		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.: 680-88592-2 Analy Batch No.: 134776  
 SDG No.: 68088592-2  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N  
 Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

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															
Benzo[k]fluoranthene	1.0803 1.0851	0.9472 1.1214	1.1337	1.1178	1.0210	Ave		1.0724			0.0000	6.2	15.0				
Benzo[a]pyrene	0.9920 1.0612	0.9445 1.0775	0.9754	1.0337	1.0234	Ave		1.0154			0.0000	4.7	15.0				
Indeno[1,2,3-cd]pyrene	0.9988 0.9513	0.8331 1.0162	0.9231	0.9673	0.9964	Ave		0.9552			0.0000	6.5	15.0				
Dibenz(a,h)anthracene	0.9790 0.9541	0.8572 0.9549	0.9225	0.9559	0.9165	Ave		0.9343			0.0000	4.3	15.0				
Benzo[g,h,i]perylene	1.0736 0.9972	0.9178 1.0017	1.0049	1.0311	0.9680	Ave		0.9992			0.0000	4.9	15.0				
o-Terphenyl	0.5990 0.6241	0.5420 0.6195	0.6120	0.6306	0.6003	Ave		0.6039			0.0000	4.9	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.: 680-88592-2

Analy Batch No.: 134776

SDG No.: 68088592-2

Instrument ID: BSMC5973

GC Column: DB-5MS

ID: 250 (um)

Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57

Calibration End Date: 02/22/2013 13:48

Calibration ID: 2760

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134776/3	1CB22003.D
Level 2	IC 660-134776/4	1CB22004.D
Level 3	IC 660-134776/5	1CB22005.D
Level 4	IC 660-134776/6	1CB22006.D
Level 5	ICIS 660-134776/7	1CB22007.D
Level 6	IC 660-134776/8	1CB22008.D
Level 7	IC 660-134776/9	1CB22009.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	5702 977462	31413 1788680	148399	315626	643945	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	4328 647691	19516 1170415	92089	212804	439231	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	3289 595177	17615 1106965	92698	202550	396283	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	7443 1208002	33214 2158422	172573	371048	771781	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	5407 706037	21590 1241216	109910	222376	450754	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	5412 961751	28314 1689190	132137	295086	610839	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	11408 1575924	51473 2774518	234717	474400	1014750	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	10196 1605221	45666 2853457	234701	496179	1007571	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	9564 1379814	39992 2470847	206292	442919	917432	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	11431 1826908	49039 3133704	264484	553174	1173070	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	12023 1978030	58472 3458322	286919	587163	1289224	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	17074 2005529	62799 3342573	295256	598352	1287277	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	15552 2071419	64086 3423784	293675	616185	1322748	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	13018 2159068	56338 3419972	280988	609549	1514965	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	13108 2175966	55640 3517880	328460	673624	1360131	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.: 680-88592-2 Analy Batch No.: 134776

SDG No.: 68088592-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

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	12036 2128065	55481 3380087	282594	622966	1363217	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	12119 1907725	48940 3187834	267436	582935	1327322	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	11879 1913283	50354 2995648	267252	576071	1220845	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	13026 1999689	53913 3142464	291148	621425	1289503	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	5163 872937	23584 1512079	126358	272397	558161	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-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22003.D  
 Lab Smp Id: IC-1512358  
 Inj Date : 22-FEB-2013 11:57  
 Operator : SCC  
 Smp Info : IC-1512358  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m  
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1174200	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	901777	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1723779	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	5163	0.20000	0.1983
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2248468	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2426654	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	5702	0.20000	0.1865(Q)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	4328	0.20000	0.2122
4 1-Methylnaphthalene	142	4.310	4.310	(1.133)	3289	0.20000	0.1771
5 Acenaphthylene	152	4.804	4.804	(0.982)	7443	0.20000	0.2047
7 Acenaphthene	154	4.915	4.915	(1.005)	5407	0.20000	0.2392
9 Fluorene	166	5.233	5.233	(1.070)	5412	0.20000	0.1893
11 Phenanthrene	178	5.862	5.862	(1.003)	11408	0.20000	0.2288
12 Anthracene	178	5.898	5.898	(1.009)	10196	0.20000	0.2091
13 Carbazole	167	6.004	6.004	(1.027)	9564	0.20000	0.2207
15 Fluoranthene	202	6.704	6.704	(1.147)	11431	0.20000	0.2094
16 Pyrene	202	6.874	6.874	(0.882)	12023	0.20000	0.1989
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	17074	0.20000	0.2631
19 Chrysene	228	7.815	7.815	(1.002)	15552	0.20000	0.2394
20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	13018	0.20000	0.2052
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	13108	0.20000	0.2014
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	12036	0.20000	0.1953
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	12119	0.20000	0.2001(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.250	(1.137)	11879	0.20000	0.2095
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	13026	0.20000	0.2148

QC Flag Legend

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

Data File: 1CB22003.D

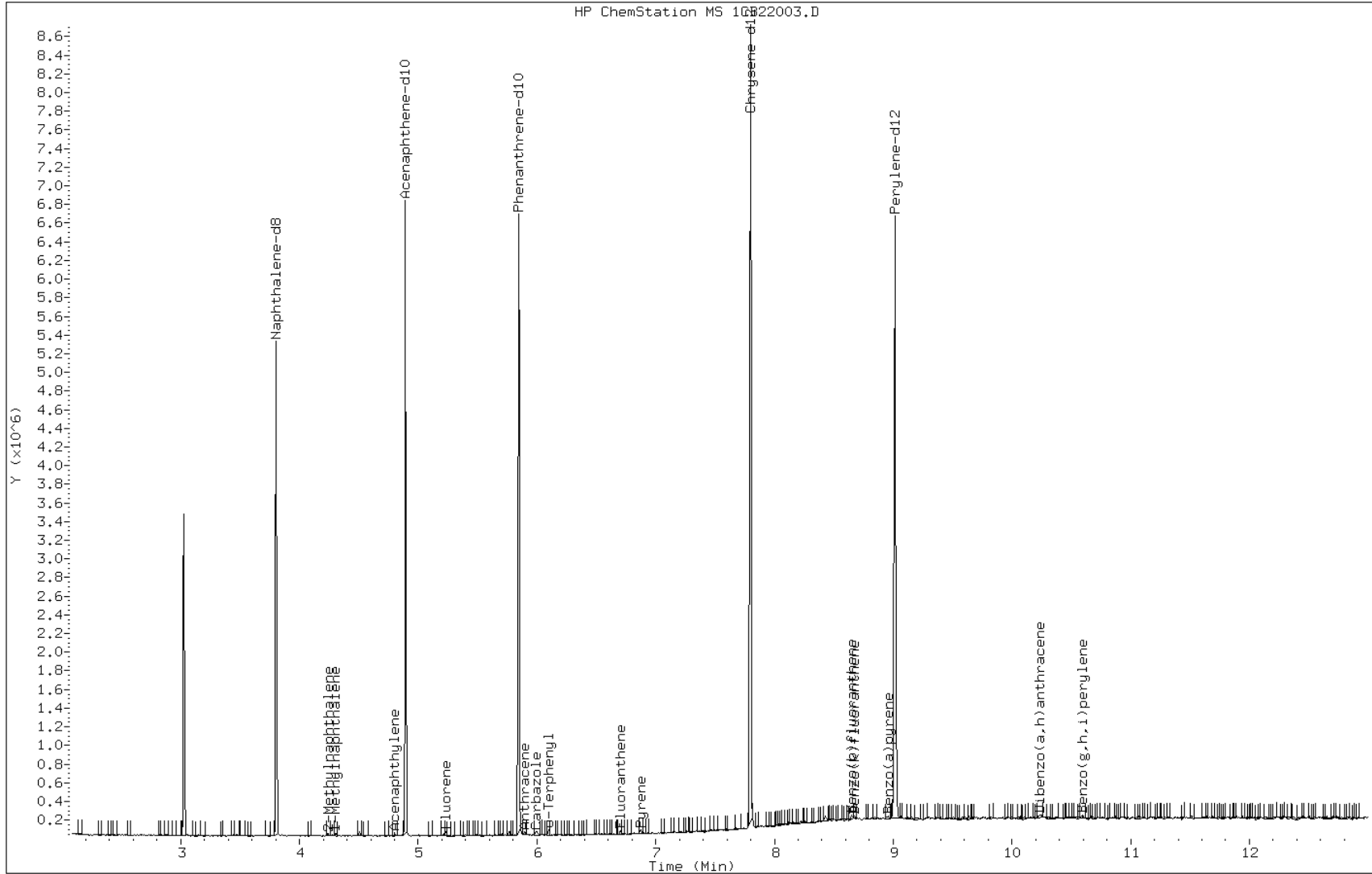
Date: 22-FEB-2013 11:57

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512358

Operator: SCC

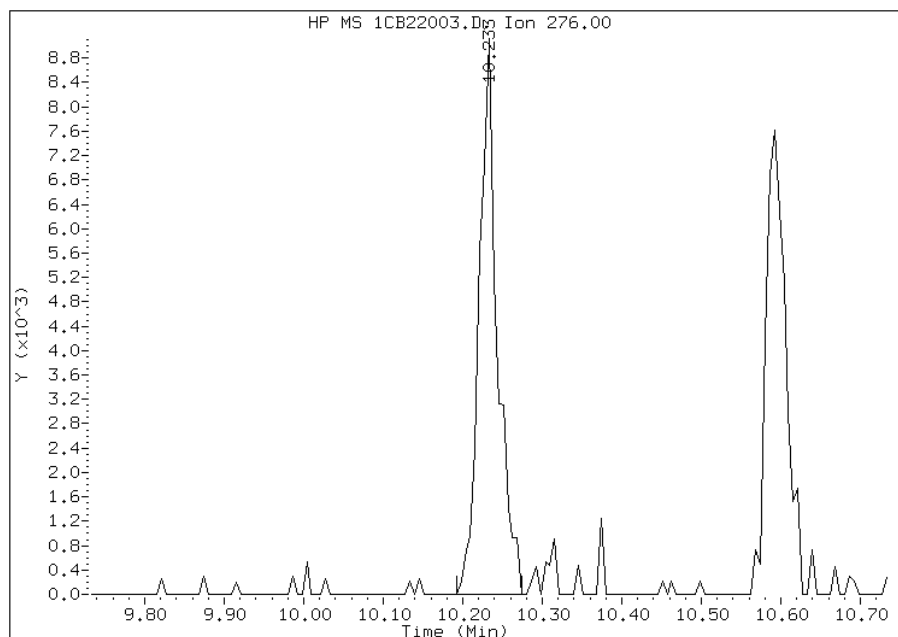


# Manual Integration Report

Data File: 1CB22003.D  
Inj. Date and Time: 22-FEB-2013 11:57  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

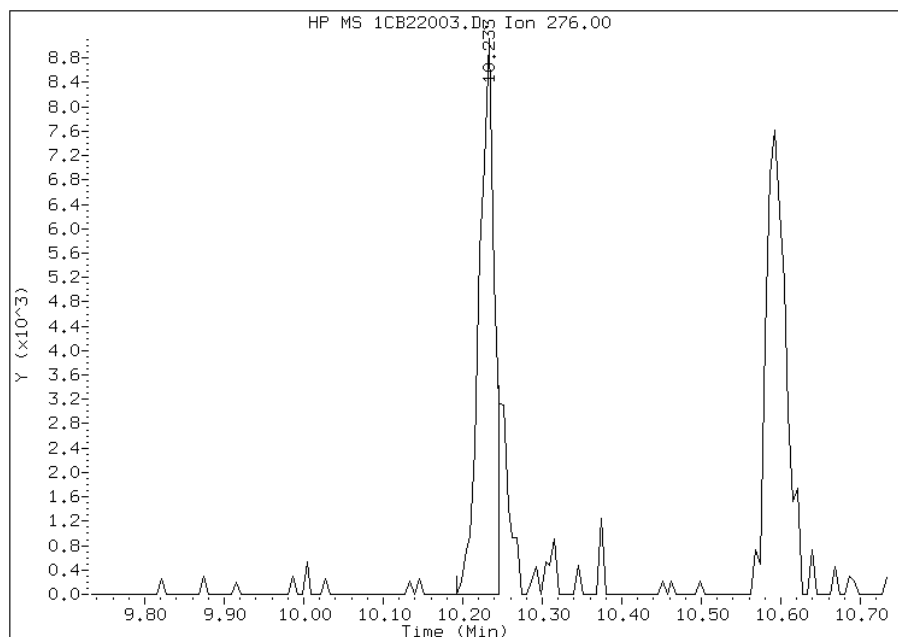
## Processing Integration Results

RT: 10.23  
Response: 14380  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 10.23  
Response: 12119  
Amount: 0  
Conc: 0



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:13  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22004.D  
 Lab Smp Id: IC-1512359  
 Inj Date : 22-FEB-2013 12:16  
 Operator : SCC  
 Smp Info : IC-1512359  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m  
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 11:57 Cal File: 1CB22003.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	3.804	3.804	(1.000)	1243608	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	931732	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1740509	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	23584	1.00000	0.8974
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2144273	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2349732	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	31413	1.00000	0.9702(Q)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	19516	1.00000	0.9036
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	17615	1.00000	0.8955
5 Acenaphthylene	152	4.804	4.804	(0.982)	33214	1.00000	0.8841
7 Acenaphthene	154	4.910	4.910	(1.004)	21590	1.00000	0.9246
9 Fluorene	166	5.233	5.233	(1.070)	28314	1.00000	0.9588
11 Phenanthrene	178	5.862	5.862	(1.003)	51473	1.00000	1.0227
12 Anthracene	178	5.898	5.898	(1.009)	45666	1.00000	0.9277
13 Carbazole	167	6.004	6.004	(1.027)	39992	1.00000	0.9140
15 Fluoranthene	202	6.704	6.704	(1.147)	49039	1.00000	0.8897
16 Pyrene	202	6.874	6.874	(0.882)	58472	1.00000	1.0147
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	62799	1.00000	1.0147
19 Chrysene	228	7.815	7.815	(1.002)	64086	1.00000	1.0347
20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	56338	1.00000	0.9174
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	55640	1.00000	0.8832
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	55481	1.00000	0.9301
24 Indeno(1,2,3-cd)pyrene	276	10.221	10.221	(1.134)	48940	1.00000	0.8346(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	50354	1.00000	0.9174
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	53913	1.00000	0.9185

QC Flag Legend

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

Data File: 1CB22004.D

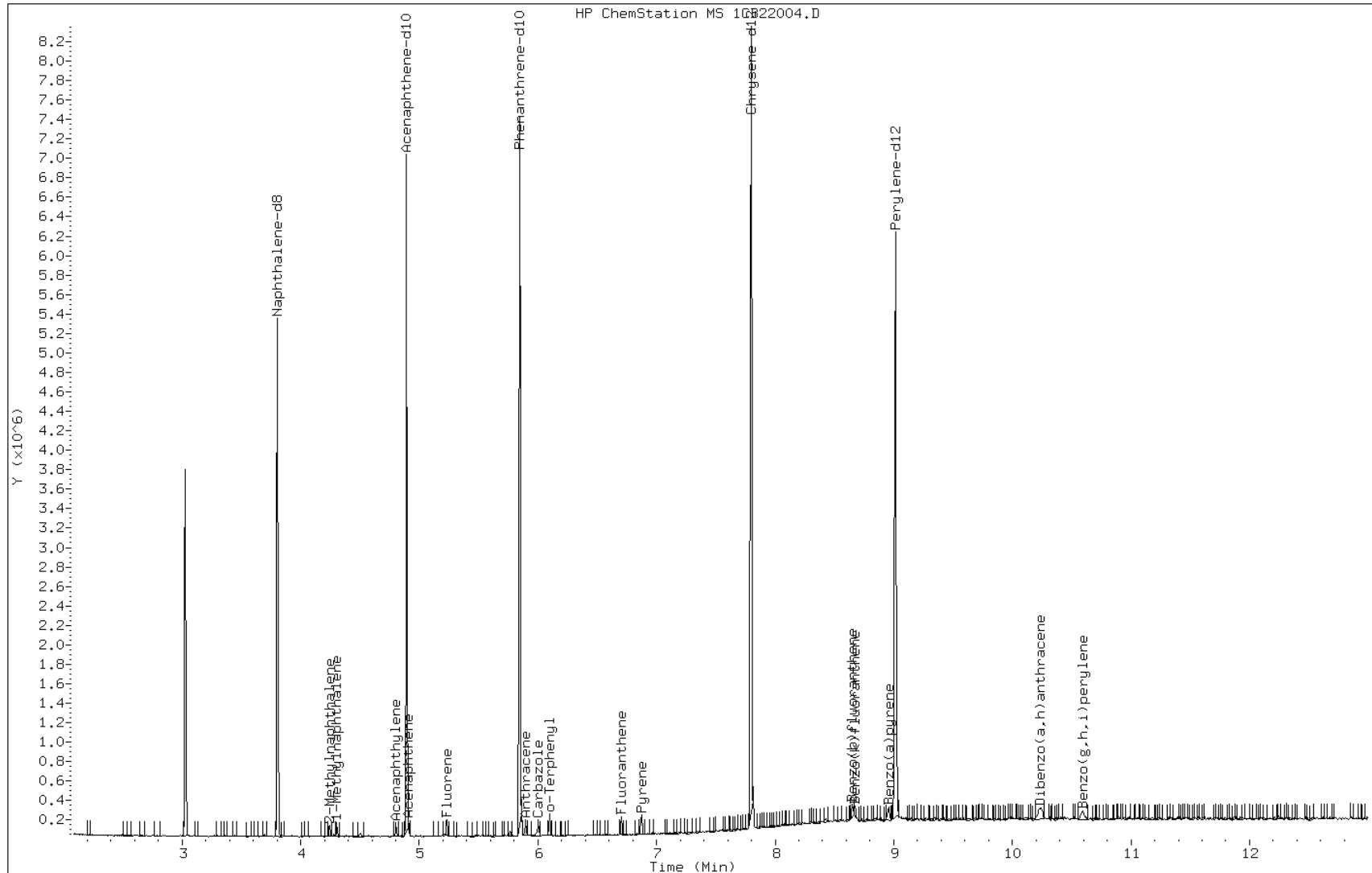
Date: 22-FEB-2013 12:16

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512359

Operator: SCC

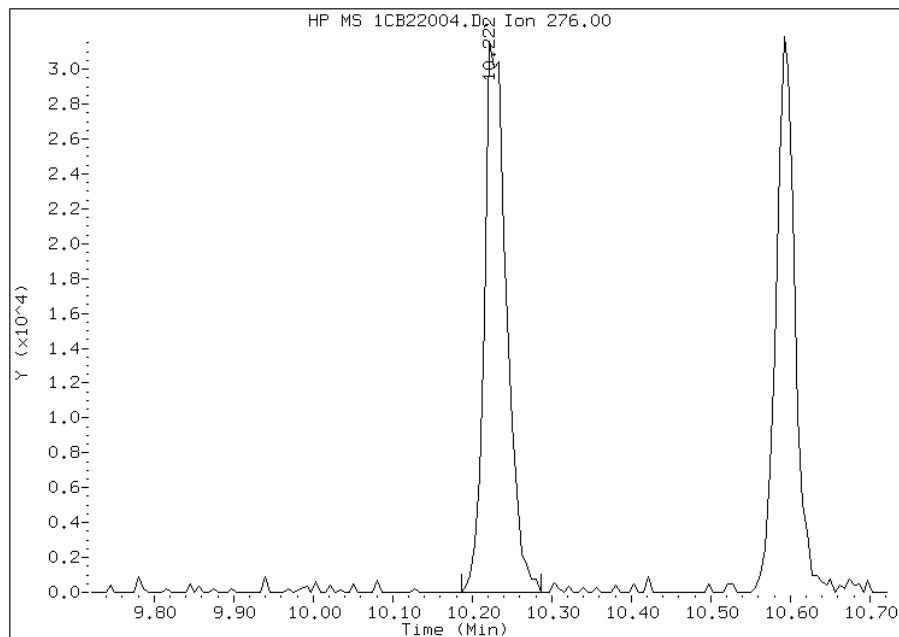


# Manual Integration Report

Data File: 1CB22004.D  
Inj. Date and Time: 22-FEB-2013 12:16  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

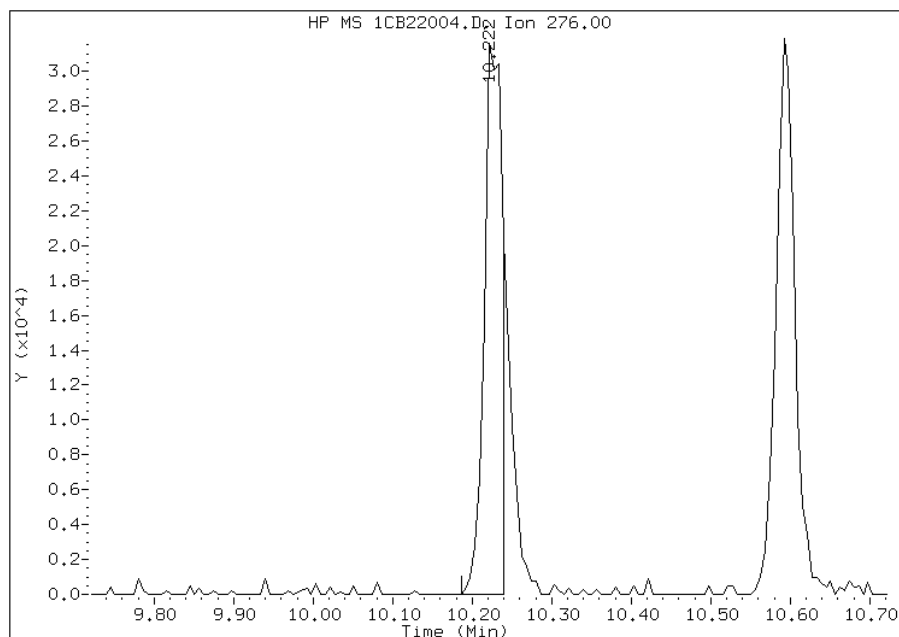
## Processing Integration Results

RT: 10.22  
Response: 61246  
Amount: 1  
Conc: 1



## Manual Integration Results

RT: 10.22  
Response: 48940  
Amount: 1  
Conc: 1



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:14  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22005.D  
 Lab Smp Id: IC-1512360  
 Inj Date : 22-FEB-2013 12:34  
 Operator : SCC  
 Smp Info : IC-1512360  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m  
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 12:16 Cal File: 1CB22004.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	3.804	3.804	(1.000)	1133793	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	874757	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1651631	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	126358	5.00000	5.0671
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2174554	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2317716	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	148399	5.00000	5.0275
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	92089	5.00000	4.6771
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	92698	5.00000	5.1694
5 Acenaphthylene	152	4.804	4.804	(0.982)	172573	5.00000	4.8932
7 Acenaphthene	154	4.910	4.910	(1.004)	109910	5.00000	5.0139
9 Fluorene	166	5.233	5.233	(1.070)	132137	5.00000	4.7663
11 Phenanthrene	178	5.863	5.863	(1.003)	234717	5.00000	4.9147
12 Anthracene	178	5.898	5.898	(1.009)	234701	5.00000	5.0249
13 Carbazole	167	6.004	6.004	(1.027)	206292	5.00000	4.9685
15 Fluoranthene	202	6.704	6.704	(1.147)	264484	5.00000	5.0569
16 Pyrene	202	6.874	6.874	(0.882)	286919	5.00000	4.9098
17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	295256	5.00000	4.7043
19 Chrysene	228	7.815	7.815	(1.002)	293675	5.00000	4.6756
20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	280988	5.00000	4.6390
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	328460	5.00000	5.2861
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	282594	5.00000	4.8032
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.227	(1.134)	267436	5.00000	4.6238(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	267252	5.00000	4.9366
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	291148	5.00000	5.0287

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22005.D

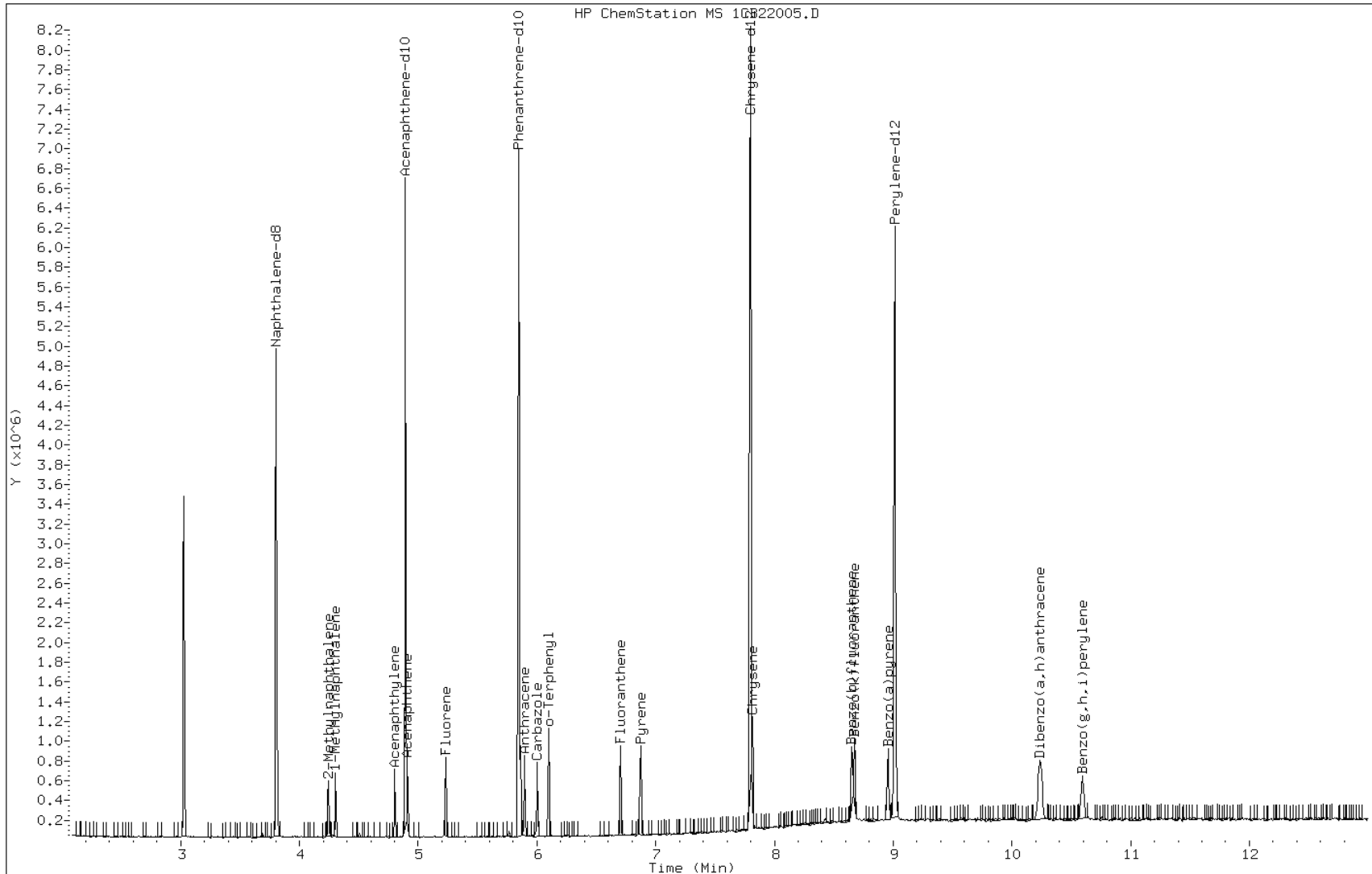
Date: 22-FEB-2013 12:34

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512360

Operator: SCC



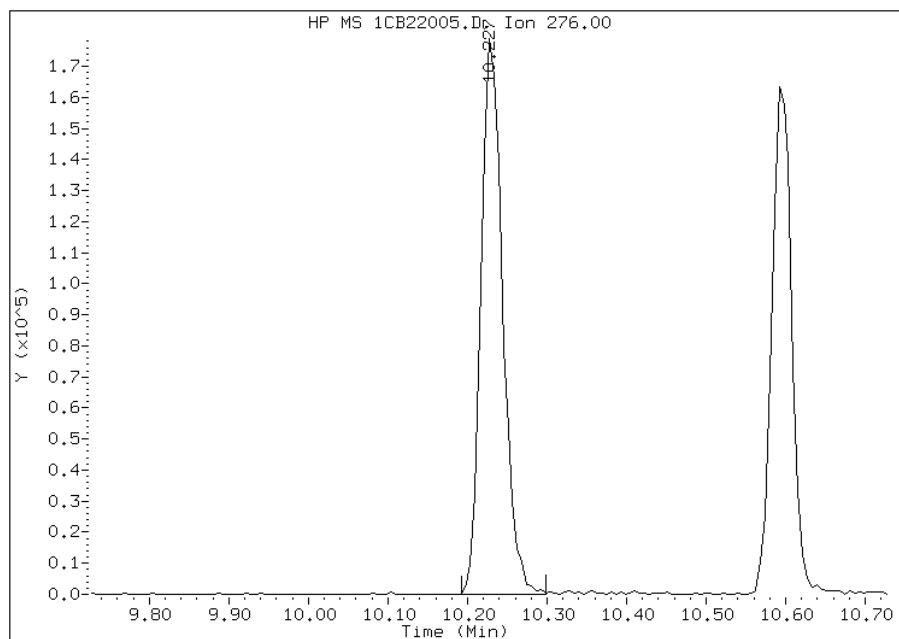


# Manual Integration Report

Data File: 1CB22005.D  
Inj. Date and Time: 22-FEB-2013 12:34  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

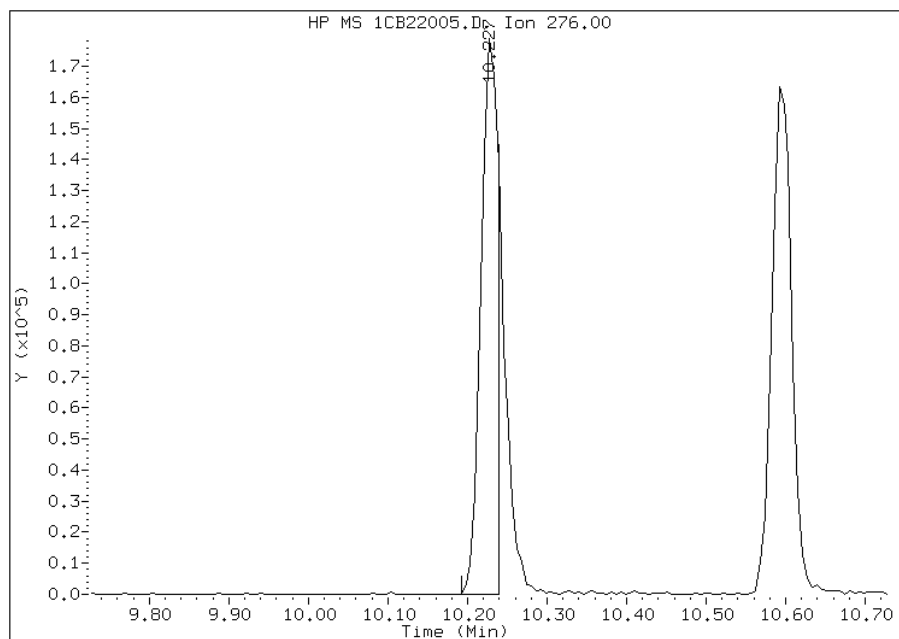
## Processing Integration Results

RT: 10.23  
Response: 336913  
Amount: 6  
Conc: 6



## Manual Integration Results

RT: 10.23  
Response: 267436  
Amount: 5  
Conc: 5



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:14  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22006.D  
 Lab Smp Id: IC-1512361  
 Inj Date : 22-FEB-2013 12:53  
 Operator : SCC  
 Smp Info : IC-1512361  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m  
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 12:34 Cal File: 1CB22005.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	3.804	3.804	(1.000)	1161301	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	893287	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1727894	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	272397	10.0000	10.4413
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2207928	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2410622	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	315626	10.0000	10.4397
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	212804	10.0000	10.5522
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	202550	10.0000	11.0278
5 Acenaphthylene	152	4.804	4.804	(0.982)	371048	10.0000	10.3027
7 Acenaphthene	154	4.910	4.910	(1.004)	222376	10.0000	9.9341
9 Fluorene	166	5.233	5.233	(1.070)	295086	10.0000	10.4233
11 Phenanthrene	178	5.862	5.862	(1.003)	474400	10.0000	9.4950
12 Anthracene	178	5.898	5.898	(1.009)	496179	10.0000	10.1543
13 Carbazole	167	6.004	6.004	(1.027)	442919	10.0000	10.1969
15 Fluoranthene	202	6.704	6.704	(1.147)	553174	10.0000	10.1099
16 Pyrene	202	6.874	6.874	(0.882)	587163	10.0000	9.8957
17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	598352	10.0000	9.3895
19 Chrysene	228	7.815	7.815	(1.002)	616185	10.0000	9.6621
20 Benzo(b)fluoranthene	252	8.650	8.650	(0.960)	609549	10.0000	9.6756
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	673624	10.0000	10.4233
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	622966	10.0000	10.1804
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.227	(1.134)	582935	10.0000	9.6902(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	576071	10.0000	10.2310
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	621425	10.0000	10.3197

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22006.D

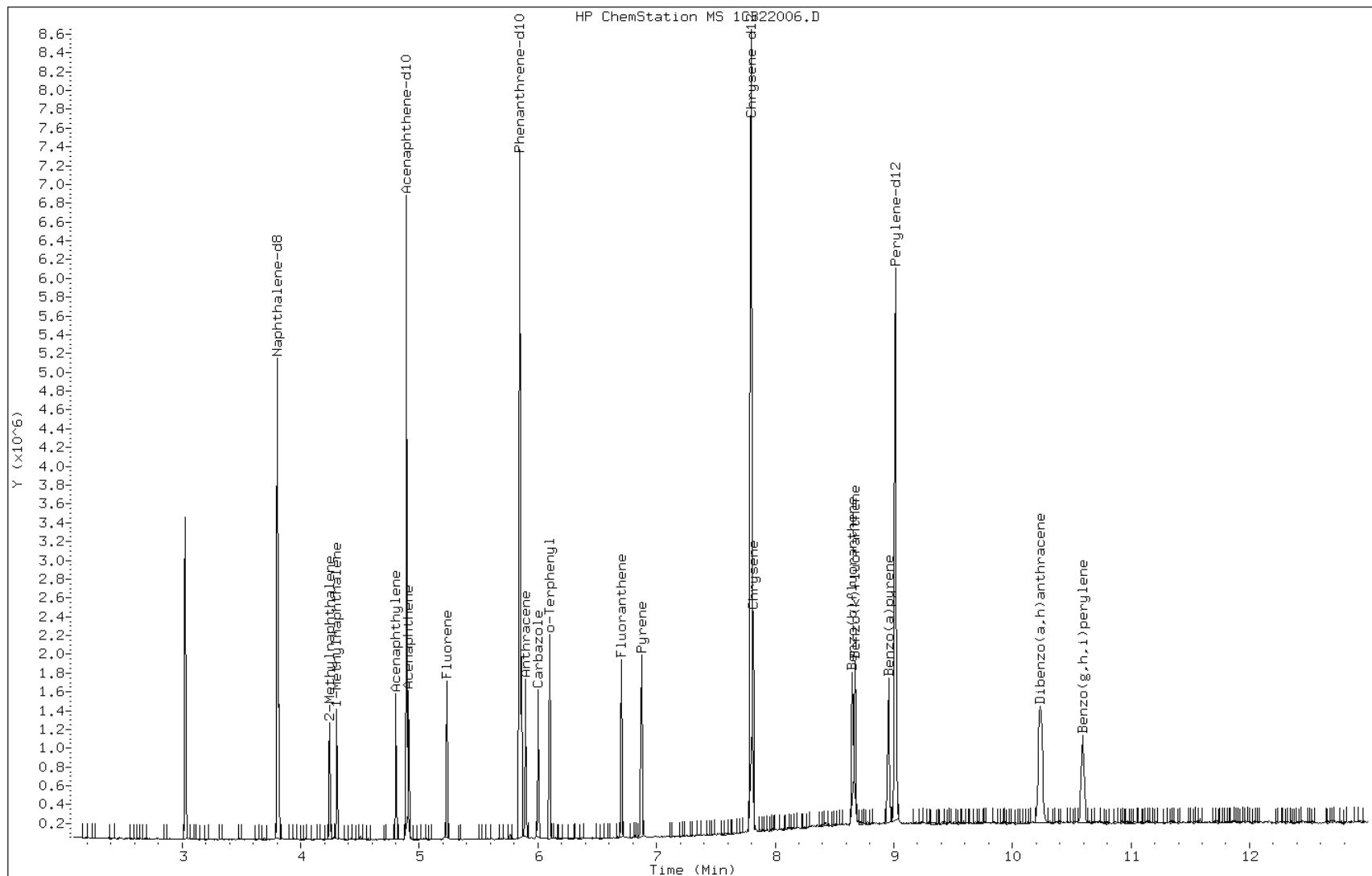
Date: 22-FEB-2013 12:53

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512361

Operator: SCC

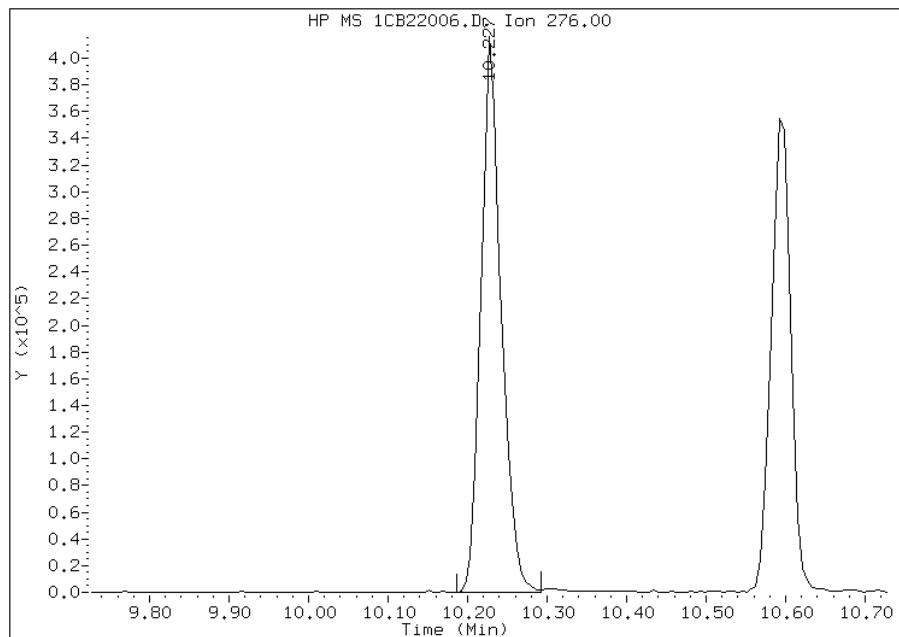


Manual Integration Report

Data File: 1CB22006.D  
Inj. Date and Time: 22-FEB-2013 12:53  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

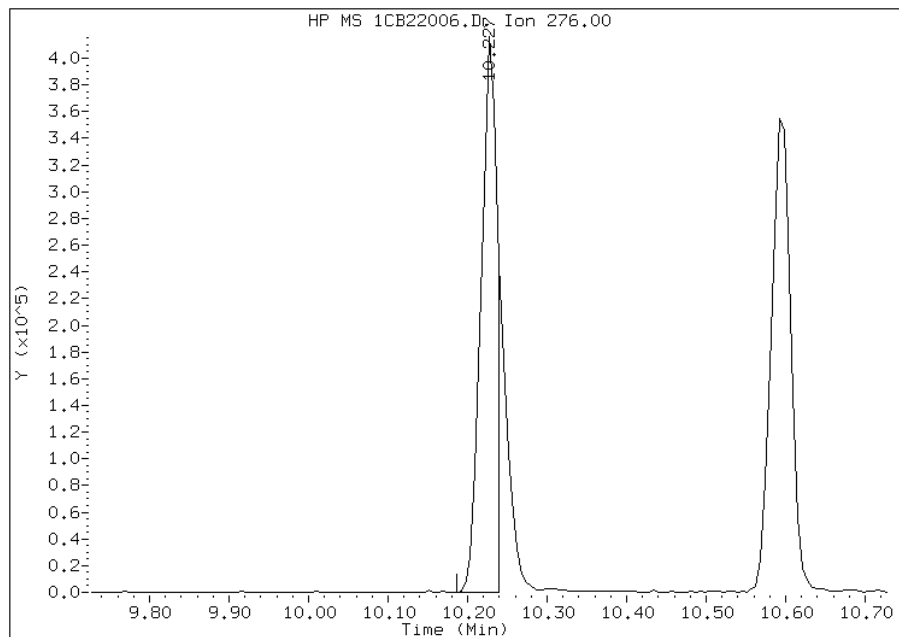
Processing Integration Results

RT: 10.23  
Response: 727358  
Amount: 13  
Conc: 13



Manual Integration Results

RT: 10.23  
Response: 582935  
Amount: 10  
Conc: 10



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:14  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMC5973.i\1C022213.b\1CB22007.D  
 Lab Smp Id: ICIS-1512372  
 Inj Date : 22-FEB-2013 13:11  
 Operator : SCC  
 Smp Info : ICIS-1512372  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m  
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 12:53 Cal File: 1CB22006.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	3.804	3.804	(1.000)	1215005	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	932815	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1859738	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	558161	20.0000	19.8783
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2424157	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2664188	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	643945	20.0000	20.3579
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	439231	20.0000	20.8172
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	396283	20.0000	20.6220
5 Acenaphthylene	152	4.804	4.804	(0.982)	771781	20.0000	20.5216
7 Acenaphthene	154	4.910	4.910	(1.004)	450754	20.0000	19.2831
9 Fluorene	166	5.233	5.233	(1.070)	610839	20.0000	20.6625
11 Phenanthrene	178	5.863	5.863	(1.003)	1014750	20.0000	18.8701
12 Anthracene	178	5.898	5.898	(1.009)	1007571	20.0000	19.1582
13 Carbazole	167	6.004	6.004	(1.027)	917432	20.0000	19.6239
15 Fluoranthene	202	6.704	6.704	(1.147)	1173070	20.0000	19.9194
16 Pyrene	202	6.874	6.874	(0.882)	1289224	20.0000	19.7898
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	1287277	20.0000	18.3986
19 Chrysene	228	7.815	7.815	(1.002)	1322748	20.0000	18.8914
20 Benzo(b)fluoranthene	252	8.657	8.657	(0.960)	1514965	20.0000	21.7588
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	1360131	20.0000	19.0428
22 Benzo(a)pyrene	252	8.957	8.957	(0.993)	1363217	20.0000	20.1573
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	1327322	20.0000	19.9642(M)
25 Dibenzo(a,h)anthracene	278	10.251	10.251	(1.137)	1220845	20.0000	19.6186
26 Benzo(g,h,i)perylene	276	10.598	10.598	(1.175)	1289503	20.0000	19.3760

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22007.D

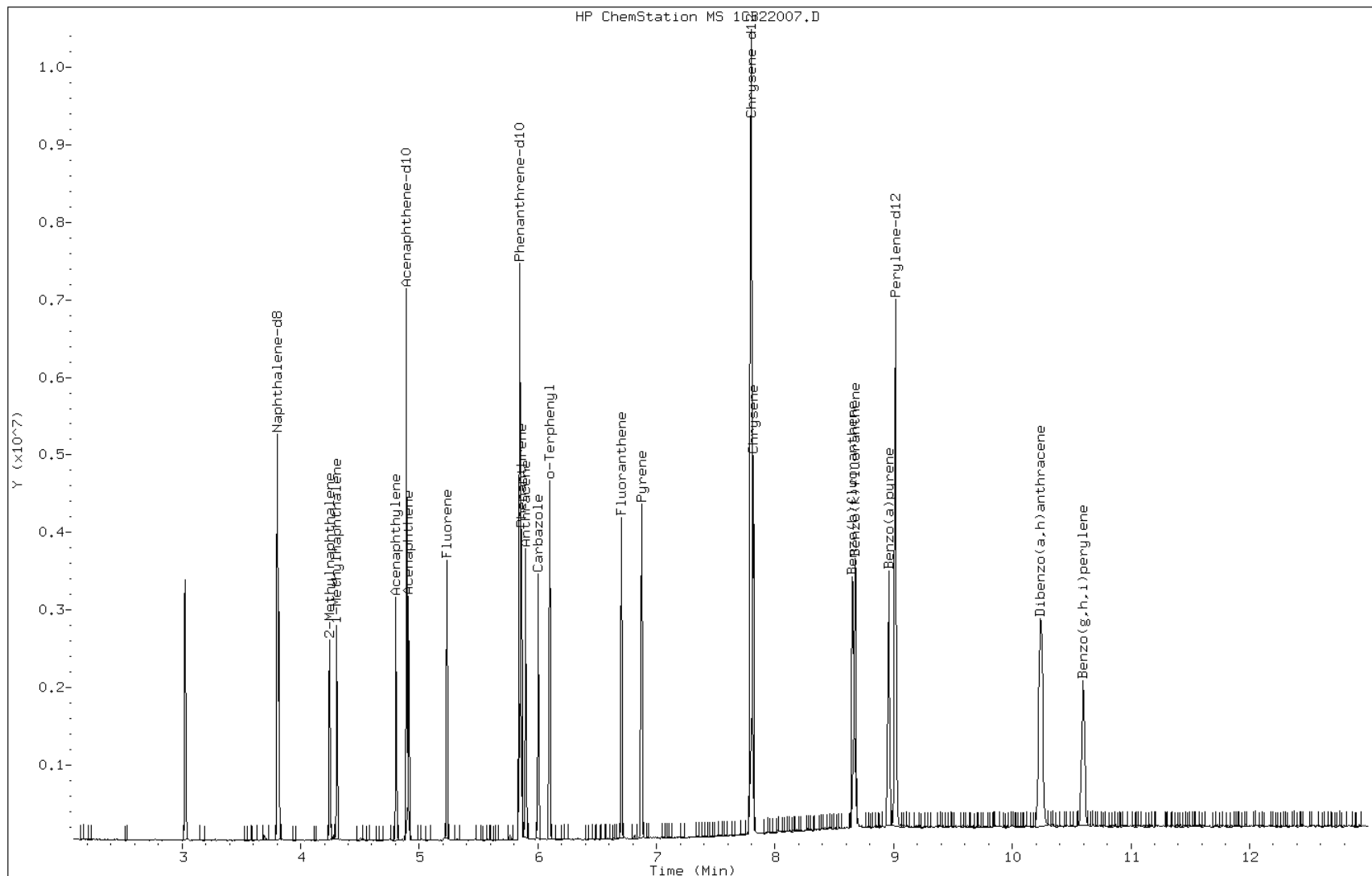
Date: 22-FEB-2013 13:11

Client ID:

Instrument: BSMC5973.i

Sample Info: ICIS-1512372

Operator: SCC

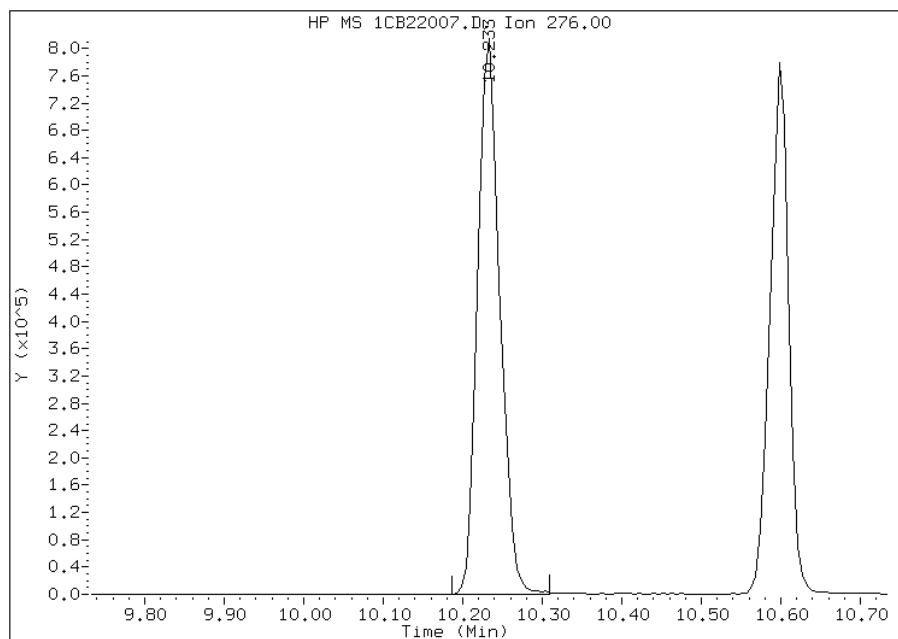


# Manual Integration Report

Data File: 1CB22007.D  
Inj. Date and Time: 22-FEB-2013 13:11  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

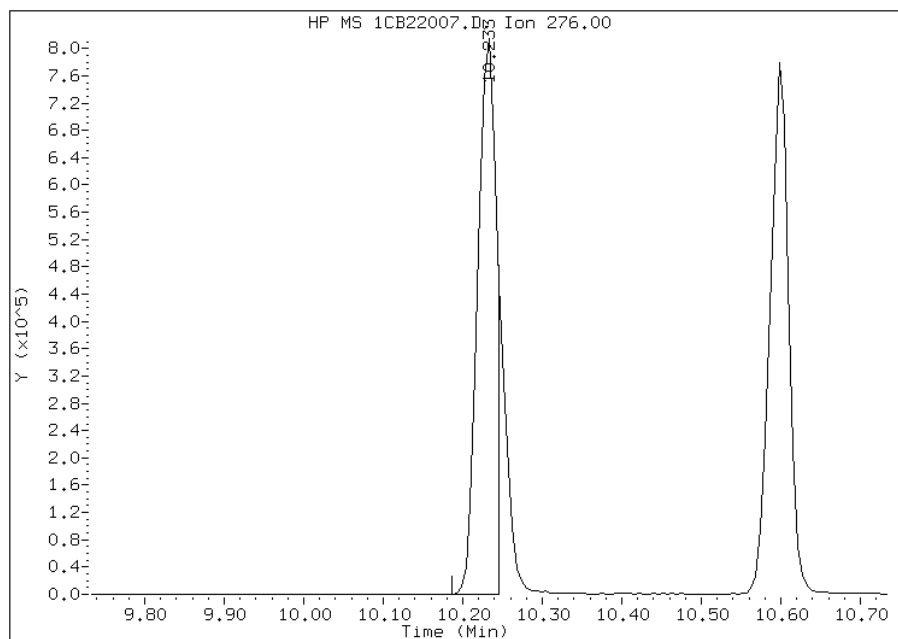
## Processing Integration Results

RT: 10.23  
Response: 1569498  
Amount: 25  
Conc: 25



## Manual Integration Results

RT: 10.23  
Response: 1327322  
Amount: 20  
Conc: 20



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:11  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMC5973.i\1C022213.b\1CB22008.D  
 Lab Smp Id: IC-1512373  
 Inj Date : 22-FEB-2013 13:29  
 Operator : SCC  
 Smp Info : IC-1512373  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m  
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:11 Cal File: 1CB22007.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	3.804	3.804	(1.000)	1245095	40.0000		
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	988838	40.0000		
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1864829	40.0000		
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	872937	30.0000	31.0038	
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2477918	40.0000		
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2673716	40.0000		
2 Naphthalene	128	3.816	3.816	(1.003)	977462	30.0000	30.1550	
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	647691	30.0000	29.9553	
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	595177	30.0000	30.2237	
5 Acenaphthylene	152	4.804	4.804	(0.982)	1208002	30.0000	30.3009	
7 Acenaphthene	154	4.910	4.910	(1.004)	706037	30.0000	28.4928	
9 Fluorene	166	5.233	5.233	(1.070)	961751	30.0000	30.6894	
11 Phenanthrene	178	5.863	5.863	(1.003)	1575924	30.0000	29.2256	
12 Anthracene	178	5.898	5.898	(1.009)	1605221	30.0000	30.4388	
13 Carbazole	167	6.004	6.004	(1.027)	1379814	30.0000	29.4337	
15 Fluoranthene	202	6.704	6.704	(1.147)	1826908	30.0000	30.9373	
16 Pyrene	202	6.874	6.874	(0.882)	1978030	30.0000	29.7043	
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	2005529	30.0000	28.0424	
19 Chrysene	228	7.821	7.821	(1.003)	2071419	30.0000	28.9420	
20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	2159068	30.0000	30.8993	
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	2175966	30.0000	30.3566	
22 Benzo(a)pyrene	252	8.962	8.962	(0.994)	2128065	30.0000	31.3547	
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	1907725	30.0000	28.5918(M)	
25 Dibenzo(a,h)anthracene	278	10.250	10.250	(1.137)	1913283	30.0000	30.6363	
26 Benzo(g,h,i)perylene	276	10.603	10.603	(1.176)	1999689	30.0000	29.9402	

QC Flag Legend

M - Compound response manually integrated.



Data File: 1CB22008.D

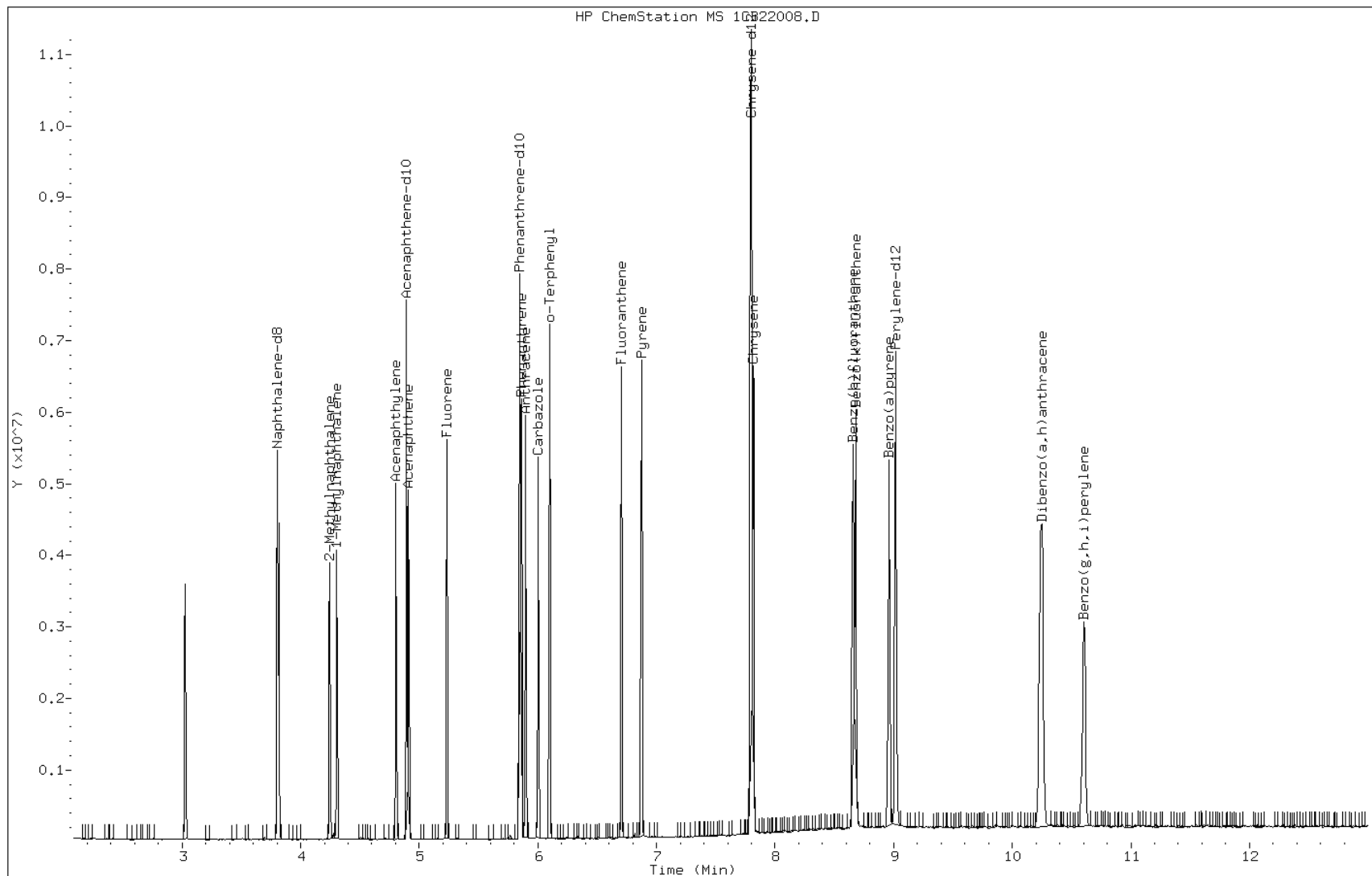
Date: 22-FEB-2013 13:29

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512373

Operator: SCC

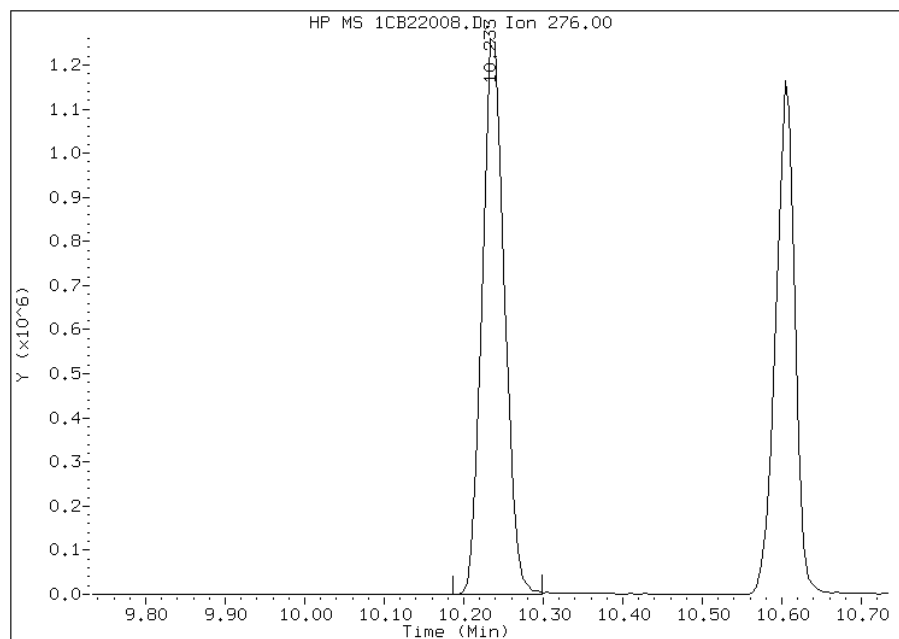


# Manual Integration Report

Data File: 1CB22008.D  
Inj. Date and Time: 22-FEB-2013 13:29  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

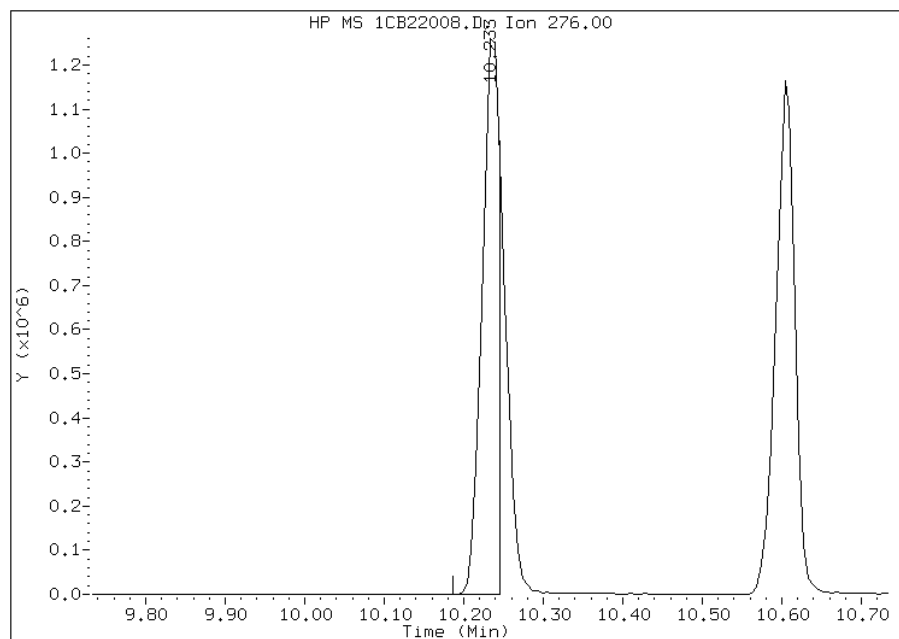
## Processing Integration Results

RT: 10.23  
Response: 2435528  
Amount: 36  
Conc: 36



## Manual Integration Results

RT: 10.23  
Response: 1907725  
Amount: 29  
Conc: 29



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:15  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22009.D  
 Lab Smp Id: IC-1512374  
 Inj Date : 22-FEB-2013 13:48  
 Operator : SCC  
 Smp Info : IC-1512374  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m  
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:29 Cal File: 1CB22008.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)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1341221	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	1022497	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1952764	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	1512079	50.0000	51.2857(A)
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2476604	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2509650	40.0000	
2 Naphthalene	128	3.815	3.815	(1.003)	1788680	50.0000	51.2265(A)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	1170415	50.0000	50.2513(A)
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	1106965	50.0000	52.1840(A)
5 Acenaphthylene	152	4.804	4.804	(0.982)	2158422	50.0000	52.3585(A)
7 Acenaphthene	154	4.910	4.910	(1.004)	1241216	50.0000	48.4415
9 Fluorene	166	5.233	5.233	(1.070)	1689190	50.0000	52.1276(A)
11 Phenanthrene	178	5.862	5.862	(1.003)	2774518	50.0000	49.1366
12 Anthracene	178	5.898	5.898	(1.009)	2853457	50.0000	51.6717(A)
13 Carbazole	167	6.004	6.004	(1.027)	2470847	50.0000	50.3338(A)
15 Fluoranthene	202	6.704	6.704	(1.147)	3133704	50.0000	50.6773(A)
16 Pyrene	202	6.874	6.874	(0.882)	3458322	50.0000	51.9617(A)
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	3342573	50.0000	46.7626
19 Chrysene	228	7.821	7.821	(1.003)	3423784	50.0000	47.8628
20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	3419972	50.0000	52.1444(A)
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	3517880	50.0000	52.2859(A)
22 Benzo(a)pyrene	252	8.962	8.962	(0.994)	3380087	50.0000	53.0576(A)
24 Indeno(1,2,3-cd)pyrene	276	10.239	10.239	(1.136)	3187834	50.0000	50.9008(AM)
25 Dibenzo(a,h)anthracene	278	10.256	10.256	(1.138)	2995648	50.0000	51.1034(A)
26 Benzo(g,h,i)perylene	276	10.609	10.609	(1.177)	3142464	50.0000	50.1261(A)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

Data File: 1CB22009.D

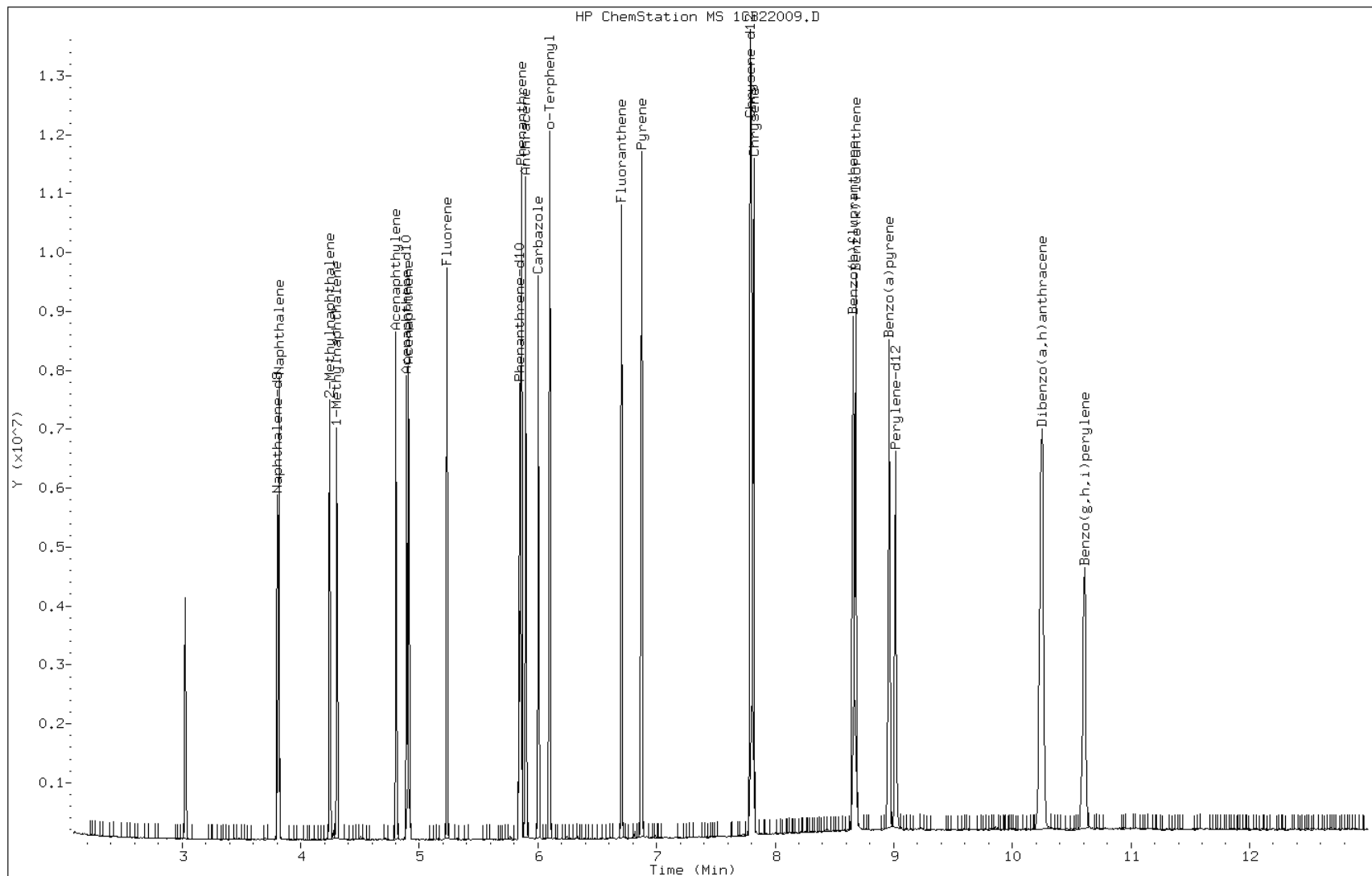
Date: 22-FEB-2013 13:48

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512374

Operator: SCC

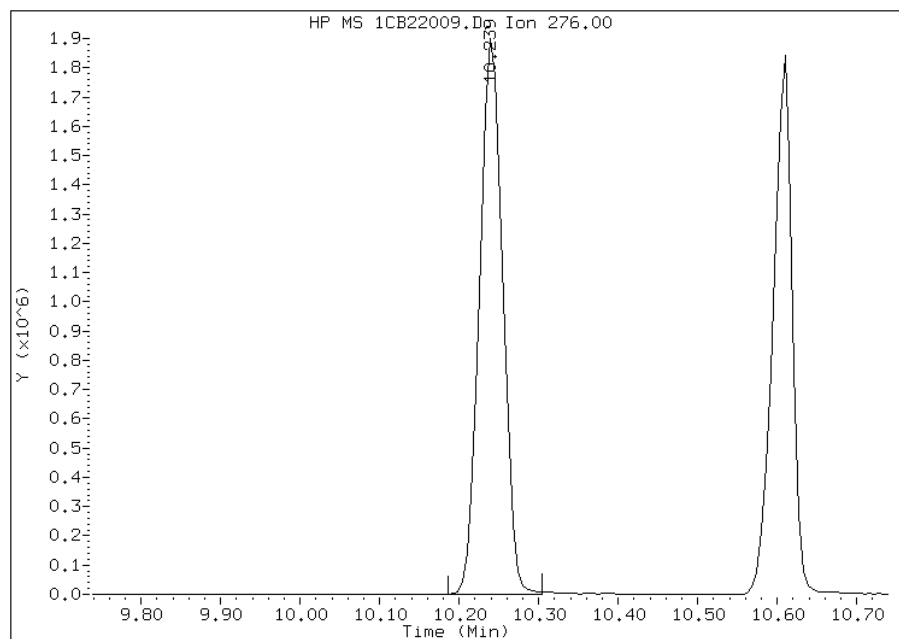


# Manual Integration Report

Data File: 1CB22009.D  
Inj. Date and Time: 22-FEB-2013 13:48  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

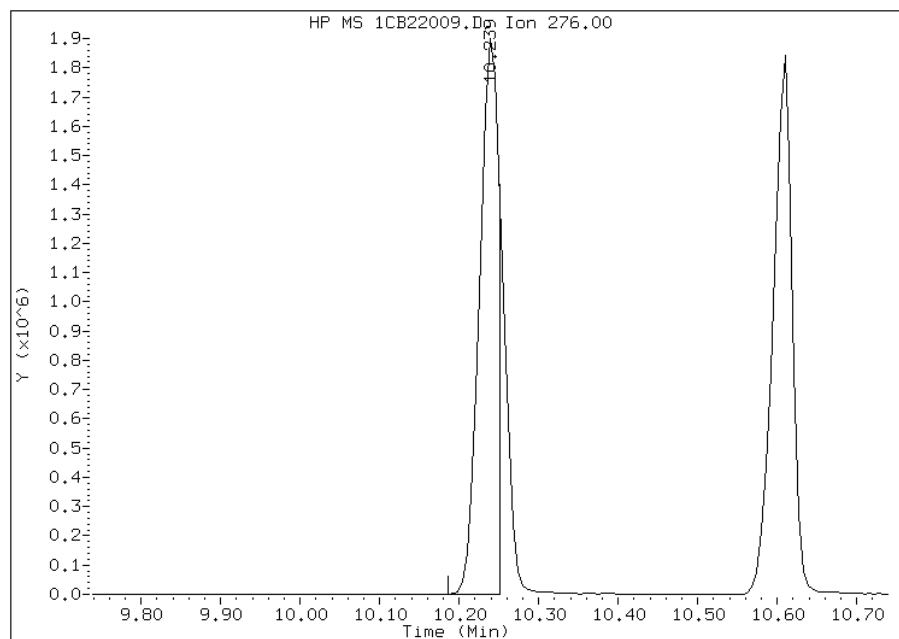
## Processing Integration Results

RT: 10.24  
Response: 3825990  
Amount: 51  
Conc: 51



## Manual Integration Results

RT: 10.24  
Response: 3187834  
Amount: 51  
Conc: 51



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:15  
Manual Integration Reason: Split Peak

FORM VI  
GC/MS SEMI VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-88592-2 Analy Batch No.: 134781

SDG No.: 68088592-2

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134781/3	1DB22003.D
Level 2	IC 660-134781/4	1DB22004.D
Level 3	IC 660-134781/5	1DB22005.D
Level 4	IC 660-134781/6	1DB22006.D
Level 5	ICIS 660-134781/7	1DB22007.D
Level 6	IC 660-134781/8	1DB22008.D
Level 7	IC 660-134781/9	1DB22009.D

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															
Naphthalene	1.1280 1.0523	1.0553 1.0405	1.0642	1.0918	1.0581	Ave		1.0700			0.0000	2.8	15.0				
2-Methylnaphthalene	0.7034 0.6669	0.6712 0.6728	0.6797	0.7002	0.6770	Ave		0.6816			0.0000	2.1	15.0				
1-Methylnaphthalene	0.6099 0.6325	0.6631 0.6258	0.6460	0.6514	0.6392	Ave		0.6383			0.0000	2.7	15.0				
Acenaphthylene	1.6661 1.7814	1.7639 1.7689	1.7448	1.8238	1.7955	Ave		1.7635			0.0000	2.8	15.0				
Acenaphthene	1.1402 1.0526	1.0845 1.0396	1.0477	1.1072	1.0550	Ave		1.0753			0.0000	3.5	15.0				
Fluorene	1.2209 1.2661	1.2731 1.2520	1.2478	1.2756	1.2585	Ave		1.2563			0.0000	1.5	15.0				
Phenanthrene	1.2165 1.1039	1.1314 1.0752	1.1449	1.1623	1.1141	Ave		1.1355			0.0000	4.0	15.0				
Anthracene	1.1088 1.1419	1.0967 1.1309	1.1548	1.1738	1.1455	Ave		1.1361			0.0000	2.3	15.0				
Carbazole	0.9989 1.0251	0.9725 1.0106	1.0326	1.0515	1.0179	Ave		1.0156			0.0000	2.5	15.0				
Fluoranthene	1.2255 1.1884	1.1239 1.1523	1.1976	1.2199	1.1869	Ave		1.1849			0.0000	3.0	15.0				
Pyrene	1.1729 1.2433	1.2578 1.2072	1.2525	1.2954	1.2562	Ave		1.2408			0.0000	3.2	15.0				
Benzo[a]anthracene	1.6058 1.1034	1.1616 1.0898	1.1024	1.1235	1.1016	LinF		1.0951			0.0000			0.9999		0.9900	
Chrysene	1.1781 1.1047	1.1583 1.0841	1.1177	1.1544	1.1168	Ave		1.1306			0.0000	3.0	15.0				
Benzo[b]fluoranthene	0.9830 1.0461	1.0325 1.0528	1.0066	1.0593	1.0269	Ave		1.0296			0.0000	2.6	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.: 680-88592-2 Analy Batch No.: 134781

SDG No.: 68088592-2

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

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															
Benzo[k]fluoranthene	1.0760 1.0603	1.0460 1.0472	1.1052	1.1212	1.0903	Ave		1.0780			0.0000	2.7	15.0				
Benzo[a]pyrene	0.9398 1.0484	0.9776 1.0366	1.0344	1.0539	1.0414	Ave		1.0189			0.0000	4.2	15.0				
Indeno[1,2,3-cd]pyrene	1.0120 1.1423	1.0104 1.1459	1.0416	1.1166	1.1424	Ave		1.0873			0.0000	5.8	15.0				
Dibenz(a,h)anthracene	0.9455 1.0206	0.9830 1.0192	1.0084	1.0295	1.0229	Ave		1.0042			0.0000	3.0	15.0				
Benzo[g,h,i]perylene	1.0182 1.0480	1.0153 1.0408	1.0329	1.0607	1.0410	Ave		1.0367			0.0000	1.6	15.0				
o-Terphenyl	0.6320 0.6161	0.6127 0.5977	0.6203	0.6323	0.6189	Ave		0.6186			0.0000	1.9	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.: 680-88592-2 Analy Batch No.: 134781

SDG No.: 68088592-2

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134781/3	1DB22003.D
Level 2	IC 660-134781/4	1DB22004.D
Level 3	IC 660-134781/5	1DB22005.D
Level 4	IC 660-134781/6	1DB22006.D
Level 5	ICIS 660-134781/7	1DB22007.D
Level 6	IC 660-134781/8	1DB22008.D
Level 7	IC 660-134781/9	1DB22009.D

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			
Naphthalene	NPT	Ave	15953 2298963	74498 3699527	371017	777491	1508569	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	9948 1457082	47384 2392281	236964	498648	965225	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	8626 1381962	46812 2225072	225226	463905	911252	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	14047 2298195	75049 3717778	364710	773248	1512937	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	9613 1357997	46142 2184846	218994	469400	889006	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	10293 1633465	54168 2631357	260823	540812	1060484	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	16602 2324547	78922 3708574	386527	798454	1536701	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	15132 2404366	76501 3900989	389851	806411	1580088	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	13633 2158453	67837 3485796	348596	722383	1404089	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	16725 2502381	78399 3974777	404310	838075	1637186	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	16387 2630026	86802 4199944	429030	897242	1722041	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	LinF	22435 2334008	80159 3791270	377597	778182	1510209	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	16460 2336752	79936 3771462	382861	799570	1531008	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	14372 2331940	74603 3853307	359912	772745	1490545	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	15732 2363523	75578 3832862	395166	817887	1582576	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.: 680-88592-2 Analy Batch No.: 134781

SDG No.: 68088592-2

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

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	13740 2336988	70635 3794269	369863	768774	1511646	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	14796 2546397	73004 4194422	372428	814504	1658275	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	13824 2275035	71027 3730665	360565	750999	1484721	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	14886 2336152	73360 3809441	369321	773773	1511031	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	8625 1297334	42735 2061660	209410	434393	853642	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
LinF = Linear ISTD forced zero

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22003.D  
 Lab Smp Id: IC-1512358  
 Inj Date : 22-FEB-2013 12:13  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : IC-1512358  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dfASTPAHi.m  
 Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.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					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/l)	ON-COL ( ug/l)
* 1 Naphthalene-d8	136	6.184	6.184	(1.000)	2828471	40.0000	
* 6 Acenaphthene-d10	164	7.858	7.858	(1.000)	1686180	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2729489	40.0000	
\$ 13 o-Terphenyl	230	9.421	9.421	(1.034)	8625	0.20000	0.20
* 17 Chrysene-d12	240	11.454	11.454	(1.000)	2794246	40.0000	
* 22 Perylene-d12	264	13.334	13.334	(1.000)	2924062	40.0000	
2 Naphthalene	128	6.201	6.201	(1.003)	15953	0.20000	0.21
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	9948	0.20000	0.21
4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	8626	0.20000	0.19
5 Acenaphthylene	152	7.723	7.723	(0.983)	14047	0.20000	0.19
7 Acenaphthene	154	7.882	7.882	(1.003)	9613	0.20000	0.21
8 Fluorene	166	8.322	8.322	(1.059)	10293	0.20000	0.19
10 Phenanthrene	178	9.127	9.127	(1.001)	16602	0.20000	0.21
11 Anthracene	178	9.168	9.168	(1.006)	15132	0.20000	0.20
12 Carbazole	167	9.303	9.303	(1.021)	13633	0.20000	0.20
14 Fluoranthene	202	10.114	10.114	(1.110)	16725	0.20000	0.21
15 Pyrene	202	10.302	10.302	(0.899)	16387	0.20000	0.19
16 Benzo(a)anthracene	228	11.436	11.436	(0.998)	22435	0.20000	0.27
18 Chrysene	228	11.477	11.477	(1.002)	16460	0.20000	0.21
19 Benzo(b)fluoranthene	252	12.764	12.764	(0.957)	14372	0.20000	0.19
20 Benzo(k)fluoranthene	252	12.799	12.799	(0.960)	15732	0.20000	0.20
21 Benzo(a)pyrene	252	13.222	13.222	(0.992)	13740	0.20000	0.18
23 Indeno(1,2,3-cd)pyrene	276	14.932	14.932	(1.120)	14796	0.20000	0.19(H)
24 Dibenzo(a,h)anthracene	278	14.967	14.967	(1.122)	13824	0.20000	0.19(MH)
25 Benzo(g,h,i)perylene	276	15.379	15.379	(1.153)	14886	0.20000	0.20(MH)

QC Flag Legend

M - Compound response manually integrated.  
 H - Operator selected an alternate compound hit.

Data File: 1DB22003.D

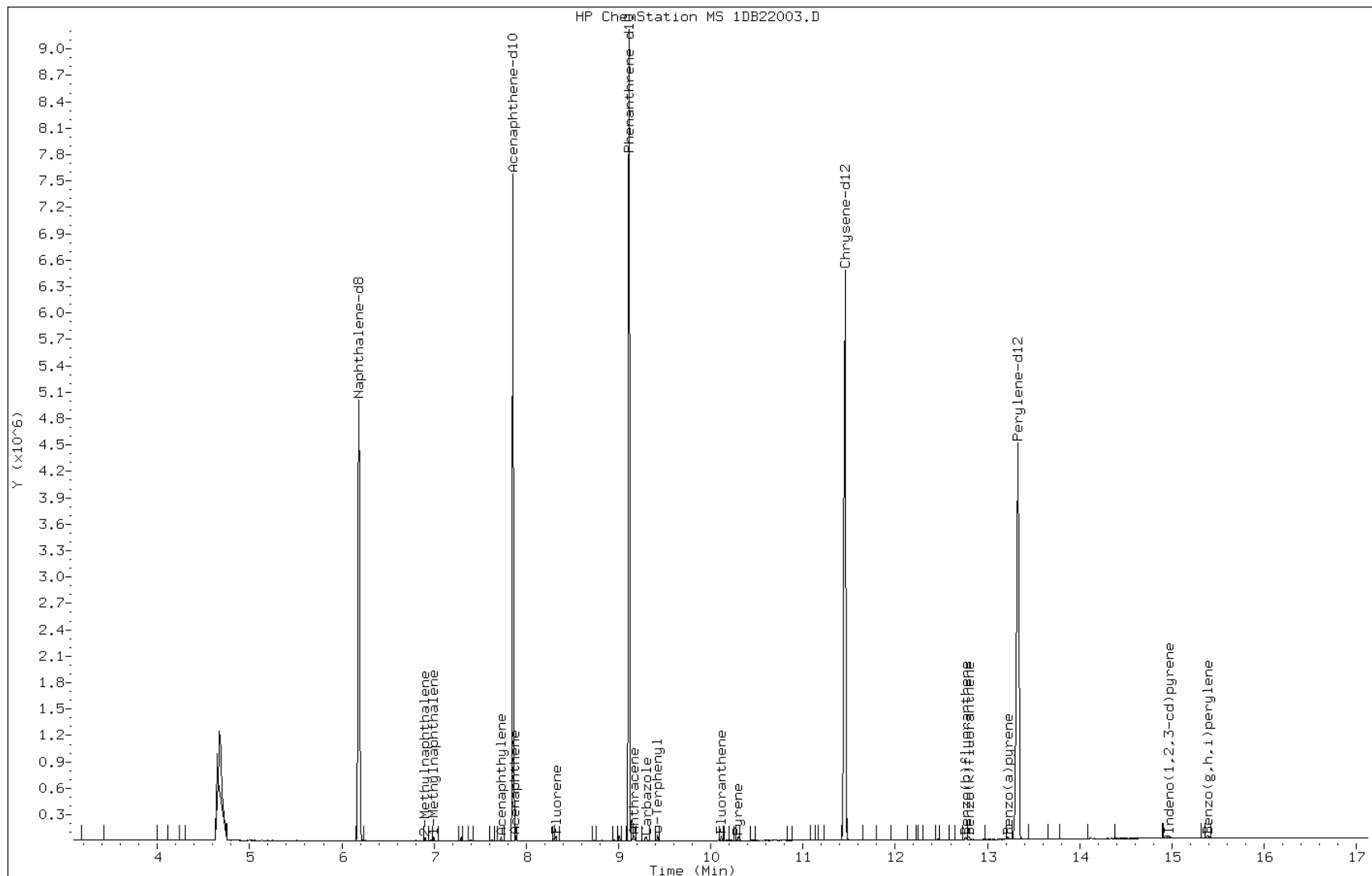
Date: 22-FEB-2013 12:13

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512358

Operator: SCC

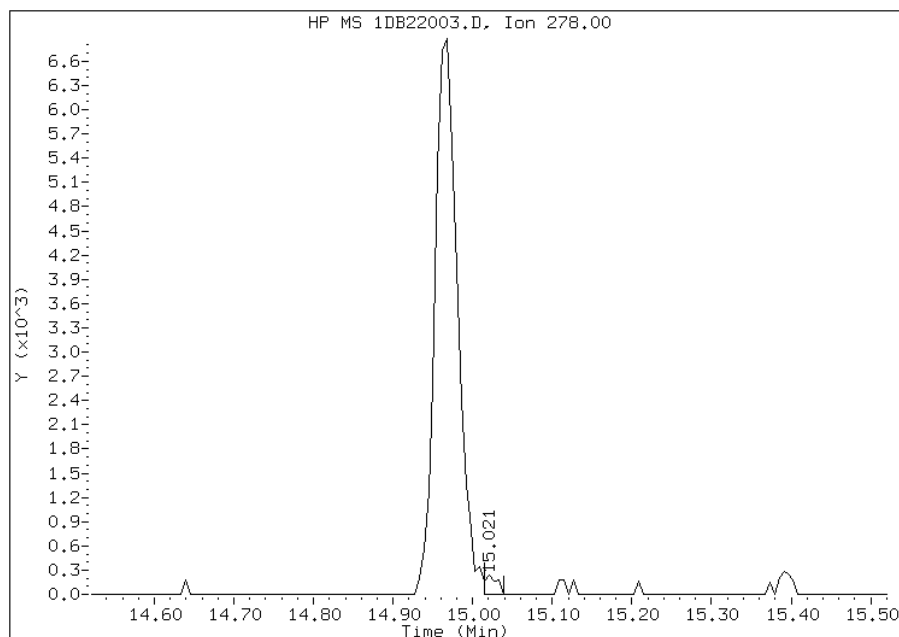


# Manual Integration Report

Data File: 1DB22003.D  
Inj. Date and Time: 22-FEB-2013 12:13  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 24 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 02/22/2013

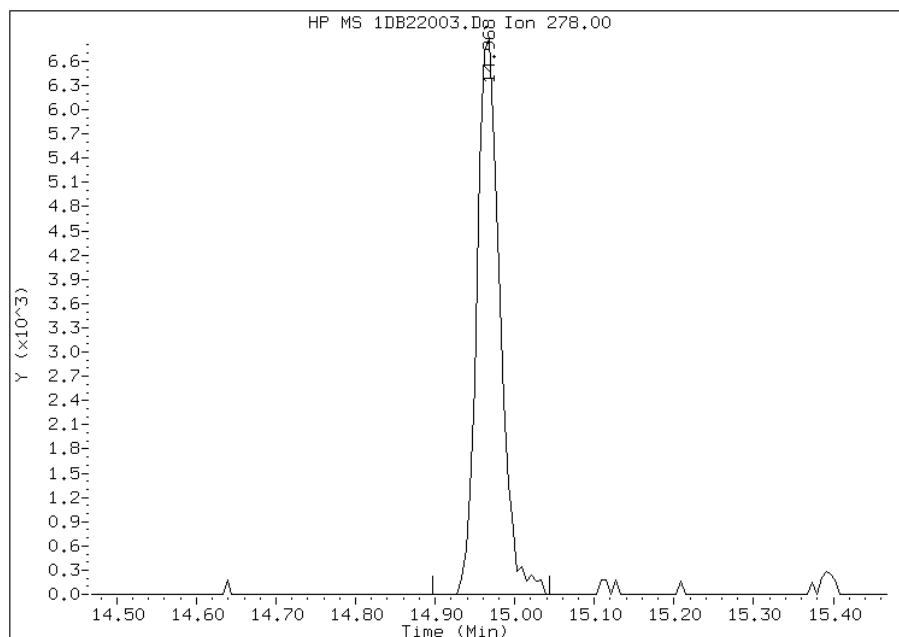
## Processing Integration Results

RT: 15.02  
Response: 262  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 14.97  
Response: 13824  
Amount: 0  
Conc: 0



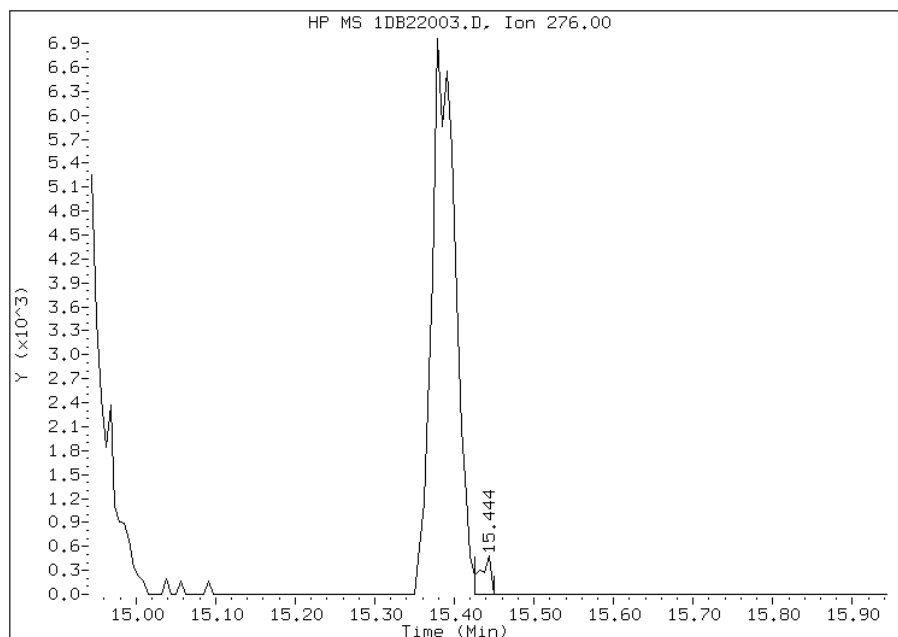
Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:57  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1DB22003.D  
Inj. Date and Time: 22-FEB-2013 12:13  
Instrument ID: BSMDS.i  
Client ID:  
Compound: 25 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 02/22/2013

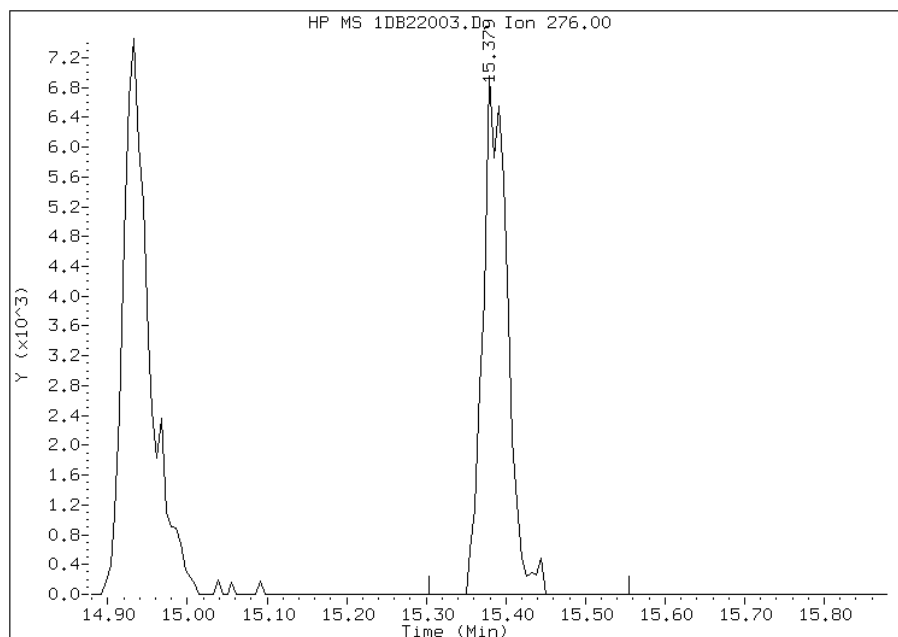
## Processing Integration Results

RT: 15.44  
Response: 456  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 15.38  
Response: 14886  
Amount: 0  
Conc: 0



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:57  
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22004.D  
 Lab Smp Id: IC-1512359  
 Inj Date : 22-FEB-2013 12:35  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : IC-1512359  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m  
 Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 12:13 Cal File: 1DB22003.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/l)	ON-COL ( ug/l)
* 1 Naphthalene-d8	136	6.186	6.186	(1.000)	2823768	40.0000	
* 6 Acenaphthene-d10	164	7.854	7.854	(1.000)	1701879	40.0000	
* 9 Phenanthrene-d10	188	9.112	9.112	(1.000)	2790130	40.0000	
\$ 13 o-Terphenyl	230	9.423	9.423	(1.034)	42735	1.00000	0.99
* 17 Chrysene-d12	240	11.456	11.456	(1.000)	2760384	40.0000	
* 22 Perylene-d12	264	13.330	13.330	(1.000)	2890207	40.0000	
2 Naphthalene	128	6.203	6.203	(1.003)	74498	1.00000	0.99
3 2-Methylnaphthalene	142	6.902	6.902	(1.116)	47384	1.00000	0.98
4 1-Methylnaphthalene	142	6.997	6.997	(1.131)	46812	1.00000	1.0
5 Acenaphthylene	152	7.725	7.725	(0.984)	75049	1.00000	1.0
7 Acenaphthene	154	7.878	7.878	(1.003)	46142	1.00000	1.0
8 Fluorene	166	8.318	8.318	(1.059)	54168	1.00000	1.0
10 Phenanthrene	178	9.129	9.129	(1.002)	78922	1.00000	1.00
11 Anthracene	178	9.170	9.170	(1.006)	76501	1.00000	0.96
12 Carbazole	167	9.306	9.306	(1.021)	67837	1.00000	0.96
14 Fluoranthene	202	10.111	10.111	(1.110)	78399	1.00000	0.95
15 Pyrene	202	10.299	10.299	(0.899)	86802	1.00000	1.0
16 Benzo(a)anthracene	228	11.432	11.432	(0.998)	80159	1.00000	0.98
18 Chrysene	228	11.474	11.474	(1.002)	79936	1.00000	1.0
19 Benzo(b)fluoranthene	252	12.760	12.760	(0.957)	74603	1.00000	1.0
20 Benzo(k)fluoranthene	252	12.796	12.796	(0.960)	75578	1.00000	0.97
21 Benzo(a)pyrene	252	13.219	13.219	(0.992)	70635	1.00000	0.96
23 Indeno(1,2,3-cd)pyrene	276	14.934	14.934	(1.120)	73004	1.00000	0.93(M)
24 Dibenzo(a,h)anthracene	278	14.964	14.964	(1.123)	71027	1.00000	0.98(H)
25 Benzo(g,h,i)perylene	276	15.381	15.381	(1.154)	73360	1.00000	0.98(H)

QC Flag Legend

M - Compound response manually integrated.  
 H - Operator selected an alternate compound hit.

Data File: 1DB22004.D

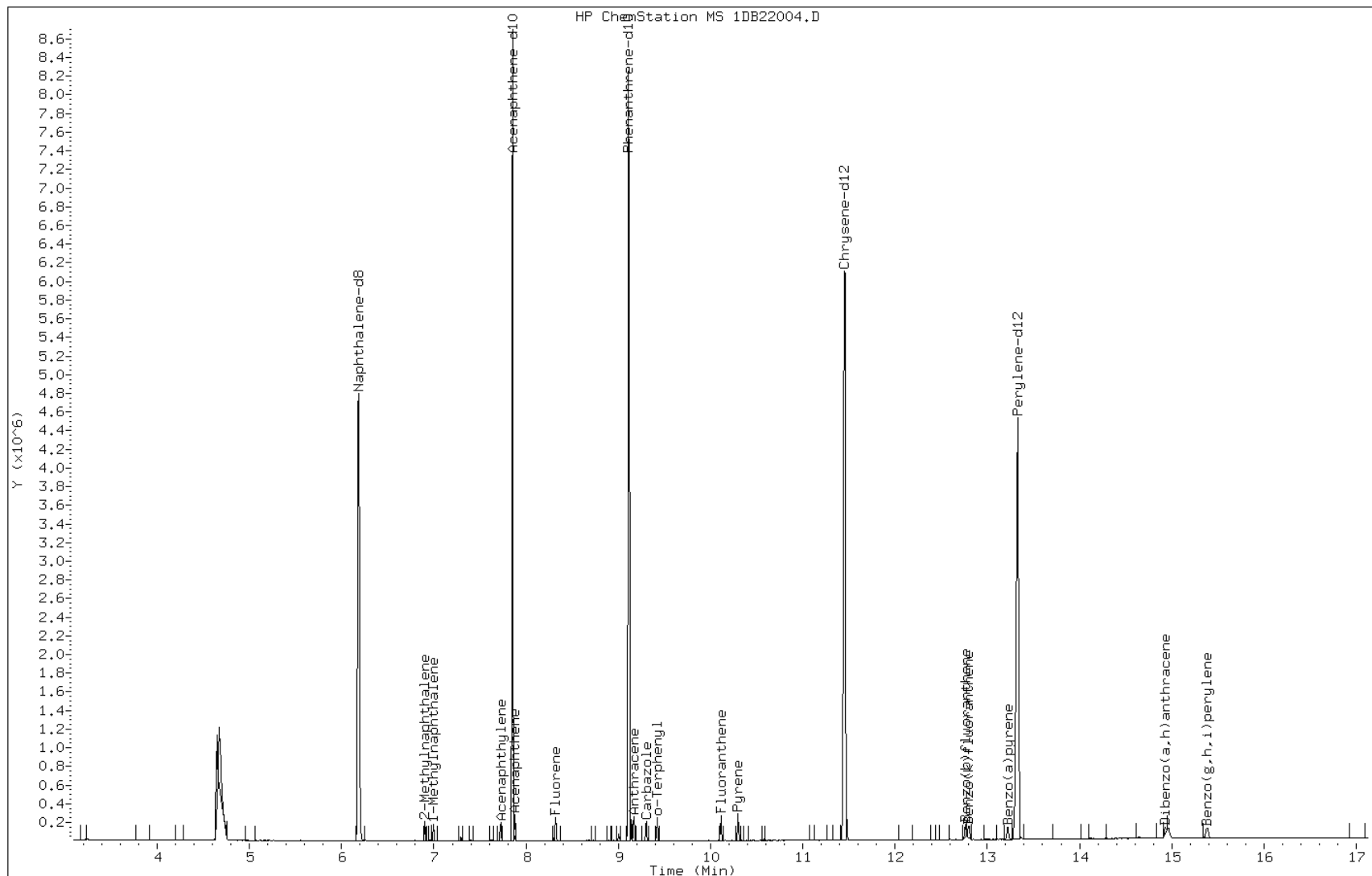
Date: 22-FEB-2013 12:35

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512359

Operator: SCC

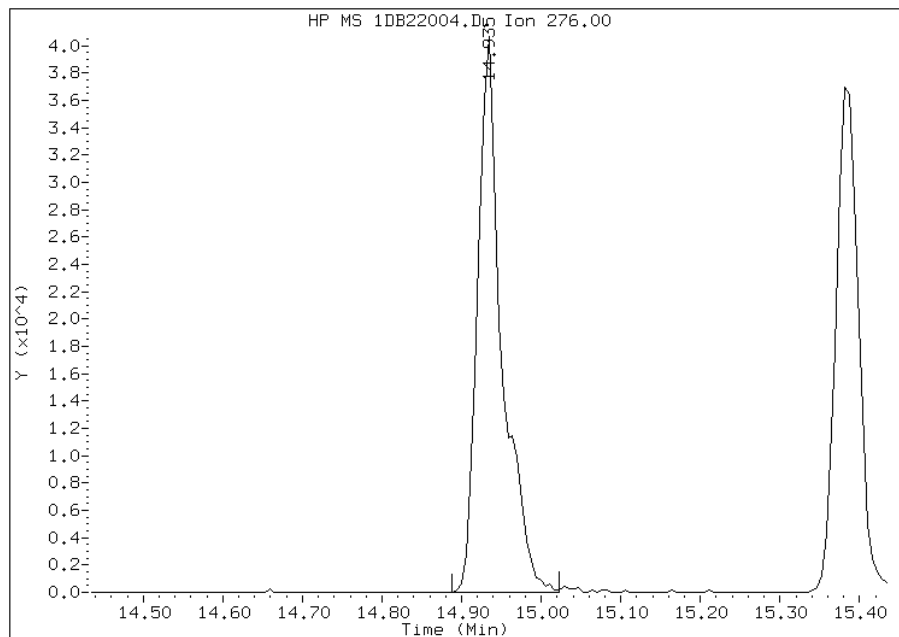


# Manual Integration Report

Data File: 1DB22004.D  
Inj. Date and Time: 22-FEB-2013 12:35  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

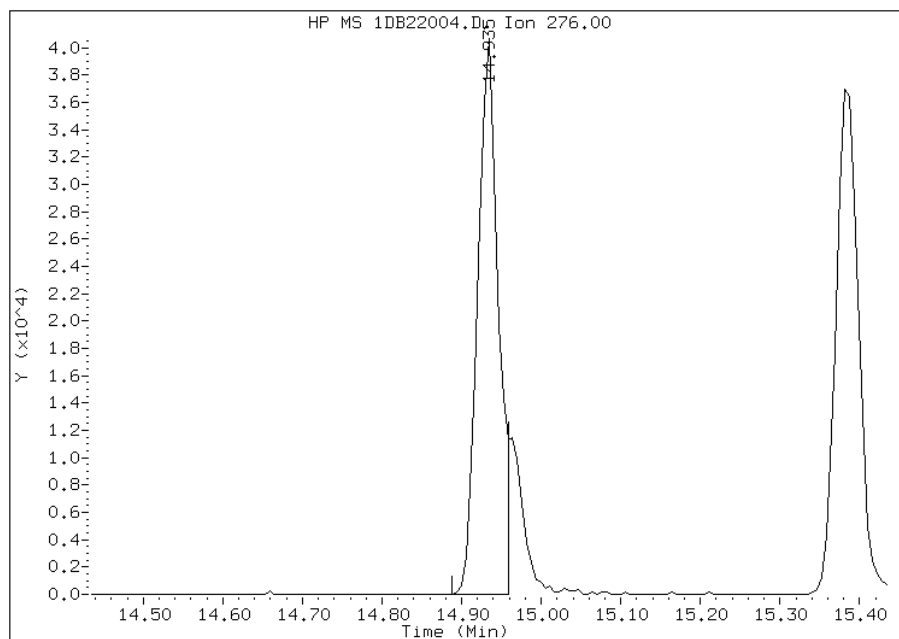
## Processing Integration Results

RT: 14.93  
Response: 86267  
Amount: 1  
Conc: 1



## Manual Integration Results

RT: 14.93  
Response: 73004  
Amount: 1  
Conc: 1



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:58  
Manual Integration Reason: Split Peak



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22005.D  
 Lab Smp Id: IC-1512360  
 Inj Date : 22-FEB-2013 12:58  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : IC-1512360  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m  
 Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 12:35 Cal File: 1DB22004.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/l)	ON-COL ( ug/l)
* 1 Naphthalene-d8	136	6.184	6.184	(1.000)	2789095	40.0000	
* 6 Acenaphthene-d10	164	7.853	7.853	(1.000)	1672170	40.0000	
* 9 Phenanthrene-d10	188	9.116	9.116	(1.000)	2700824	40.0000	
\$ 13 o-Terphenyl	230	9.421	9.421	(1.034)	209410	5.00000	5.0
* 17 Chrysene-d12	240	11.454	11.454	(1.000)	2740282	40.0000	
* 22 Perylene-d12	264	13.334	13.334	(1.000)	2860502	40.0000	
2 Naphthalene	128	6.202	6.202	(1.003)	371017	5.00000	5.0
3 2-Methylnaphthalene	142	6.901	6.901	(1.116)	236964	5.00000	5.0
4 1-Methylnaphthalene	142	6.995	6.995	(1.131)	225226	5.00000	5.1
5 Acenaphthylene	152	7.723	7.723	(0.984)	364710	5.00000	4.9
7 Acenaphthene	154	7.876	7.876	(1.003)	218994	5.00000	4.9
8 Fluorene	166	8.323	8.323	(1.060)	260823	5.00000	5.0
10 Phenanthrene	178	9.134	9.134	(1.002)	386527	5.00000	5.0
11 Anthracene	178	9.169	9.169	(1.006)	389851	5.00000	5.1
12 Carbazole	167	9.304	9.304	(1.021)	348596	5.00000	5.1
14 Fluoranthene	202	10.115	10.115	(1.110)	404310	5.00000	5.0
15 Pyrene	202	10.303	10.303	(0.899)	429030	5.00000	5.0
16 Benzo(a)anthracene	228	11.437	11.437	(0.998)	377597	5.00000	4.6
18 Chrysene	228	11.478	11.478	(1.002)	382861	5.00000	4.9
19 Benzo(b)fluoranthene	252	12.765	12.765	(0.957)	359912	5.00000	4.9
20 Benzo(k)fluoranthene	252	12.806	12.806	(0.960)	395166	5.00000	5.1
21 Benzo(a)pyrene	252	13.229	13.229	(0.992)	369863	5.00000	5.1
23 Indeno(1,2,3-cd)pyrene	276	14.938	14.938	(1.120)	372428	5.00000	4.8(M)
24 Dibenzo(a,h)anthracene	278	14.974	14.974	(1.123)	360565	5.00000	5.0(H)
25 Benzo(g,h,i)perylene	276	15.391	15.391	(1.154)	369321	5.00000	5.0(H)

QC Flag Legend

M - Compound response manually integrated.  
 H - Operator selected an alternate compound hit.

Data File: 1DB22005.D

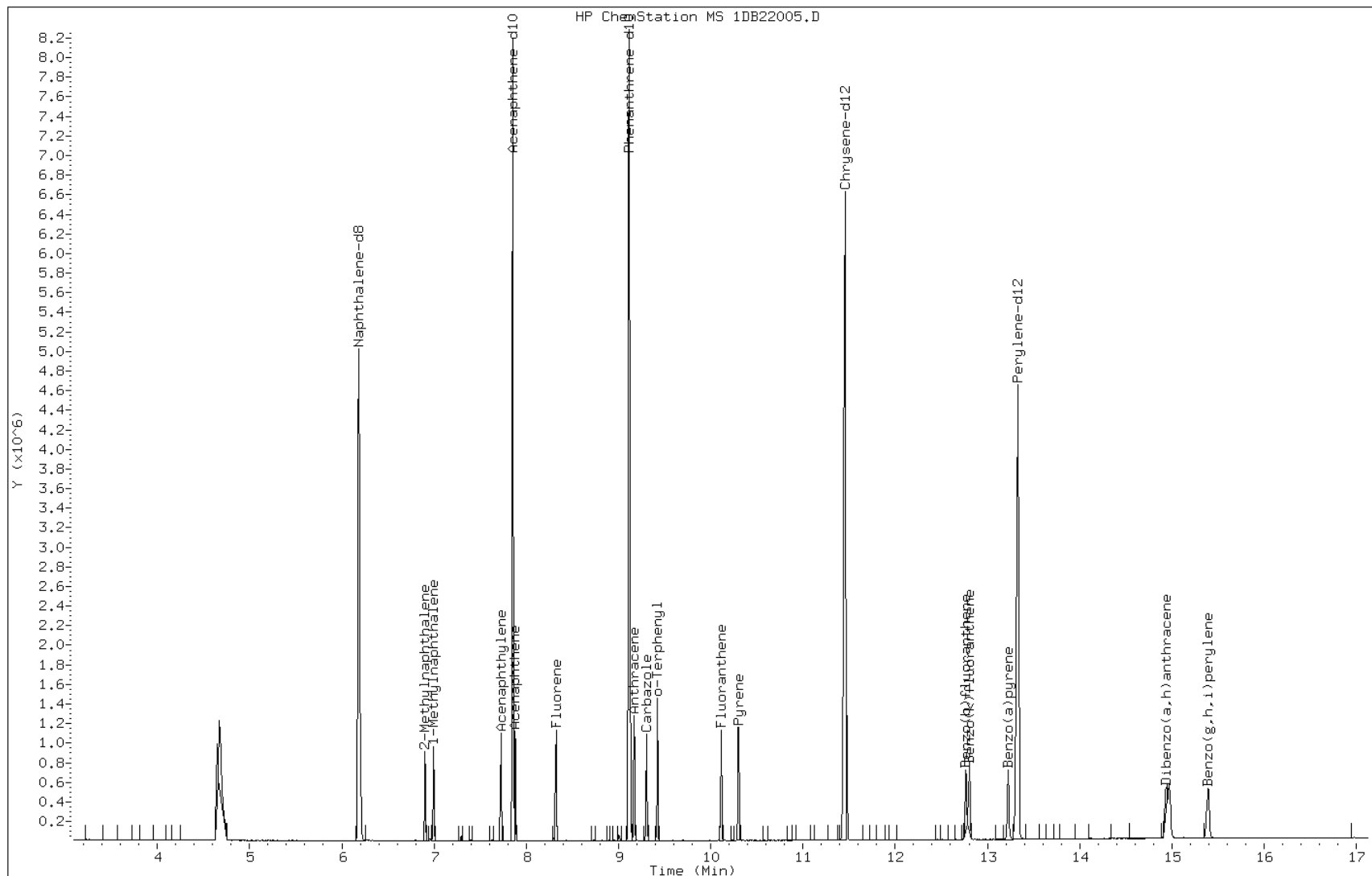
Date: 22-FEB-2013 12:58

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512360

Operator: SCC

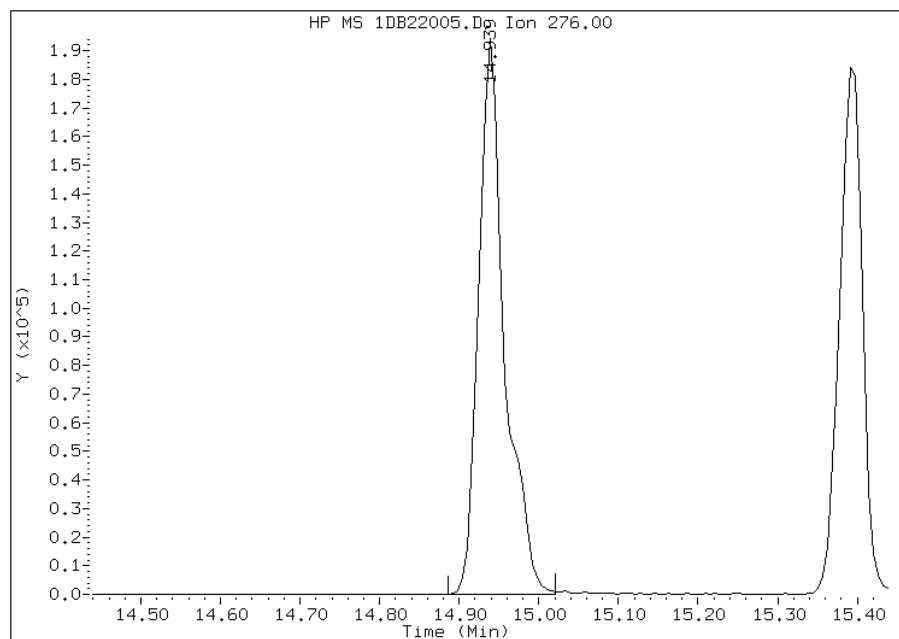


# Manual Integration Report

Data File: 1DB22005.D  
Inj. Date and Time: 22-FEB-2013 12:58  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

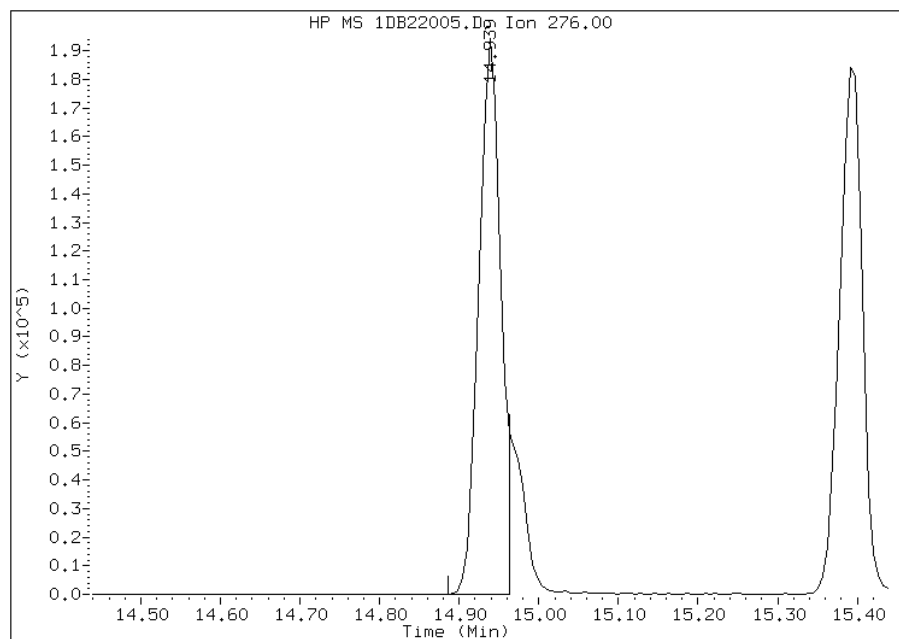
## Processing Integration Results

RT: 14.94  
Response: 437022  
Amount: 5  
Conc: 5



## Manual Integration Results

RT: 14.94  
Response: 372428  
Amount: 5  
Conc: 5



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:58  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22006.D  
 Lab Smp Id: IC-1512361  
 Inj Date : 22-FEB-2013 13:21  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : IC-1512361  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m  
 Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 12:58 Cal File: 1DB22005.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/l)	ON-COL ( ug/l)
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2848559	40.0000	
* 6 Acenaphthene-d10	164	7.858	7.858	(1.000)	1695869	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2747931	40.0000	
\$ 13 o-Terphenyl	230	9.420	9.420	(1.034)	434393	10.0000	10
* 17 Chrysene-d12	240	11.459	11.459	(1.000)	2770572	40.0000	
* 22 Perylene-d12	264	13.333	13.333	(1.000)	2917915	40.0000	
2 Naphthalene	128	6.207	6.207	(1.004)	777491	10.0000	10
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	498648	10.0000	10
4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	463905	10.0000	10
5 Acenaphthylene	152	7.728	7.728	(0.984)	773248	10.0000	10
7 Acenaphthene	154	7.881	7.881	(1.003)	469400	10.0000	10
8 Fluorene	166	8.322	8.322	(1.059)	540812	10.0000	10
10 Phenanthrene	178	9.132	9.132	(1.002)	798454	10.0000	10
11 Anthracene	178	9.174	9.174	(1.006)	806411	10.0000	10
12 Carbazole	167	9.309	9.309	(1.021)	722383	10.0000	10
14 Fluoranthene	202	10.114	10.114	(1.110)	838075	10.0000	10
15 Pyrene	202	10.302	10.302	(0.899)	897242	10.0000	10
16 Benzo(a)anthracene	228	11.436	11.436	(0.998)	778182	10.0000	9.5
18 Chrysene	228	11.477	11.477	(1.002)	799570	10.0000	10
19 Benzo(b)fluoranthene	252	12.769	12.769	(0.958)	772745	10.0000	10
20 Benzo(k)fluoranthene	252	12.811	12.811	(0.961)	817887	10.0000	10
21 Benzo(a)pyrene	252	13.228	13.228	(0.992)	768774	10.0000	10
23 Indeno(1,2,3-cd)pyrene	276	14.943	14.943	(1.121)	814504	10.0000	10(M)
24 Dibenzo(a,h)anthracene	278	14.979	14.979	(1.123)	750999	10.0000	10(H)
25 Benzo(g,h,i)perylene	276	15.407	15.407	(1.156)	773773	10.0000	10(H)

QC Flag Legend

M - Compound response manually integrated.  
 H - Operator selected an alternate compound hit.

Data File: 1DB22006.D

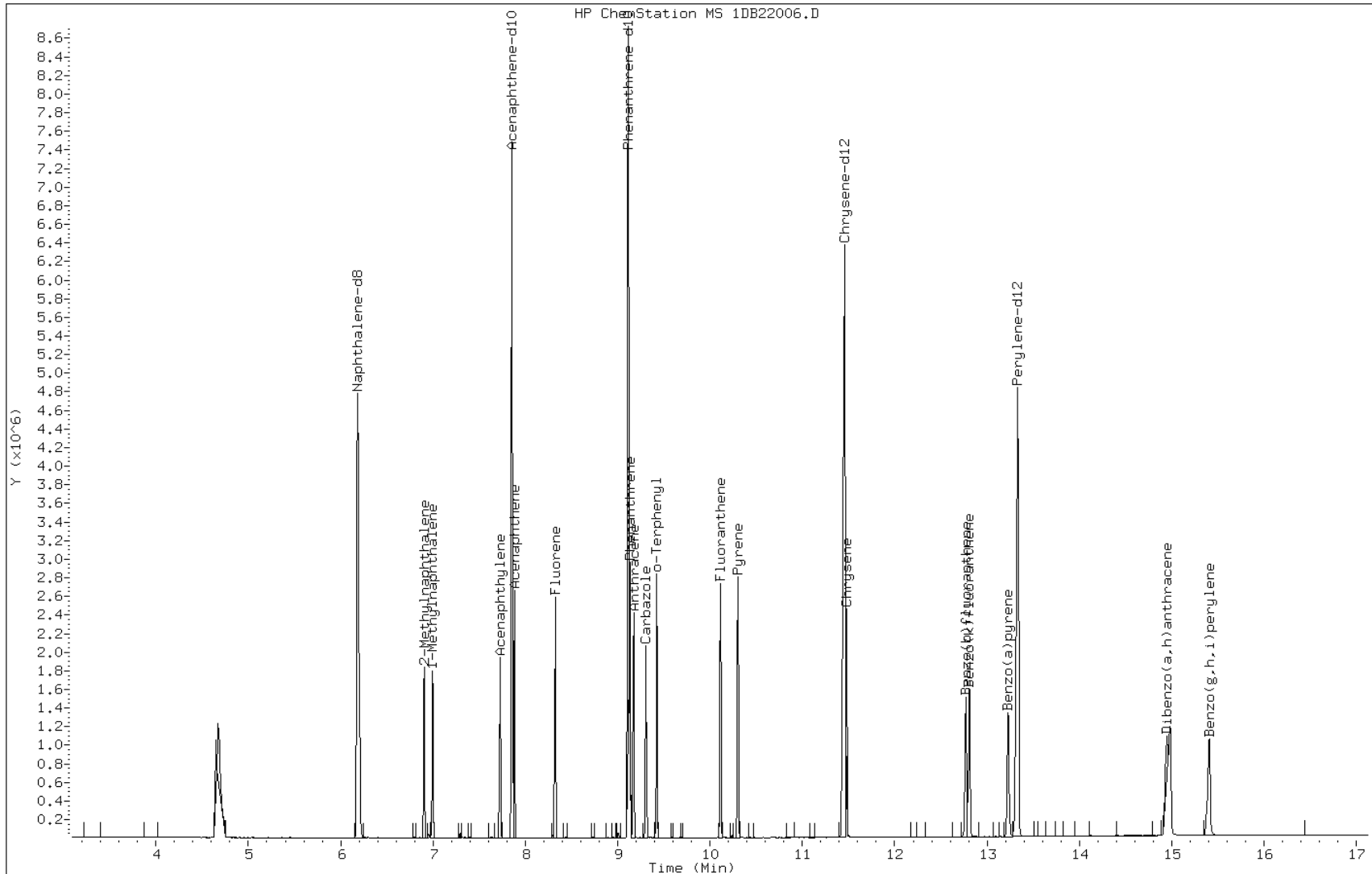
Date: 22-FEB-2013 13:21

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512361

Operator: SCC

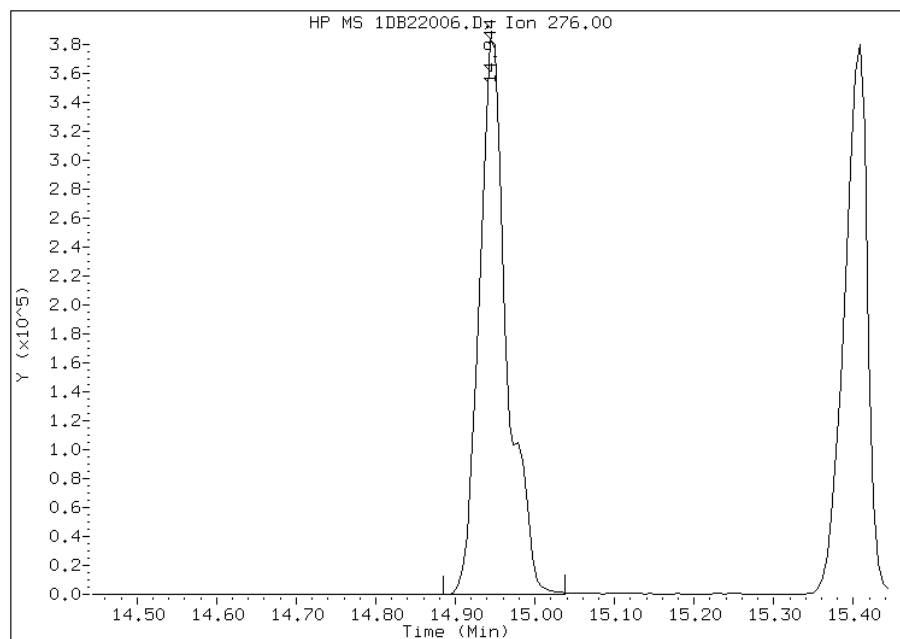


Manual Integration Report

Data File: 1DB22006.D  
Inj. Date and Time: 22-FEB-2013 13:21  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

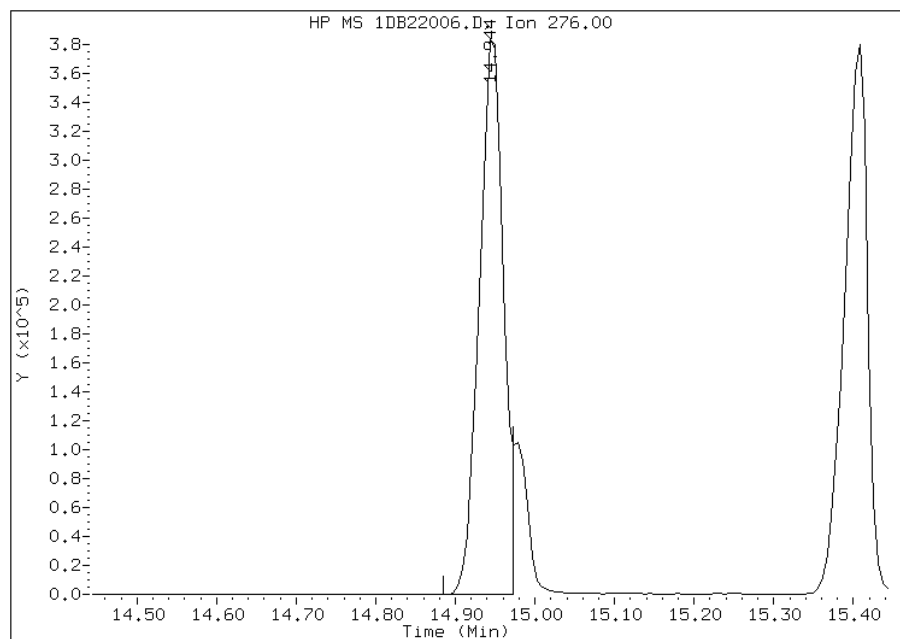
Processing Integration Results

RT: 14.94  
Response: 923395  
Amount: 11  
Conc: 11



Manual Integration Results

RT: 14.94  
Response: 814504  
Amount: 10  
Conc: 10



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:59  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270/8310 low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMSD.i\1D022213.b\1DB22007.D  
 Lab Smp Id: ICIS-1512372  
 Inj Date : 22-FEB-2013 13:43  
 Operator : SCC  
 Smp Info : ICIS-1512372  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m  
 Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:21 Cal File: 1DB22006.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				ON-COL
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2851402	40.0000	
* 6 Acenaphthene-d10	164	7.857	7.857	(1.000)	1685266	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2758746	40.0000	
\$ 13 o-Terphenyl	230	9.426	9.426	(1.034)	853642	20.0000	20
* 17 Chrysene-d12	240	11.459	11.459	(1.000)	2741766	40.0000	
* 22 Perylene-d12	264	13.333	13.333	(1.000)	2903096	40.0000	
2 Naphthalene	128	6.206	6.206	(1.004)	1508569	20.0000	20
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	965225	20.0000	20
4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	911252	20.0000	20
5 Acenaphthylene	152	7.728	7.728	(0.984)	1512937	20.0000	20
7 Acenaphthene	154	7.881	7.881	(1.003)	889006	20.0000	20
8 Fluorene	166	8.321	8.321	(1.059)	1060484	20.0000	20
10 Phenanthrene	178	9.132	9.132	(1.002)	1536701	20.0000	20
11 Anthracene	178	9.173	9.173	(1.006)	1580088	20.0000	20
12 Carbazole	167	9.309	9.309	(1.021)	1404089	20.0000	20
14 Fluoranthene	202	10.114	10.114	(1.110)	1637186	20.0000	20
15 Pyrene	202	10.302	10.302	(0.899)	1722041	20.0000	20
16 Benzo(a)anthracene	228	11.435	11.435	(0.998)	1510209	20.0000	19
18 Chrysene	228	11.482	11.482	(1.002)	1531008	20.0000	20
19 Benzo(b)fluoranthene	252	12.775	12.775	(0.958)	1490545	20.0000	20
20 Benzo(k)fluoranthene	252	12.816	12.816	(0.961)	1582576	20.0000	20
21 Benzo(a)pyrene	252	13.239	13.239	(0.993)	1511646	20.0000	20
23 Indeno(1,2,3-cd)pyrene	276	14.961	14.961	(1.122)	1658275	20.0000	21
24 Dibenzo(a,h)anthracene	278	14.996	14.996	(1.125)	1484721	20.0000	20
25 Benzo(g,h,i)perylene	276	15.425	15.425	(1.157)	1511031	20.0000	20

Data File: 1DB22007.D

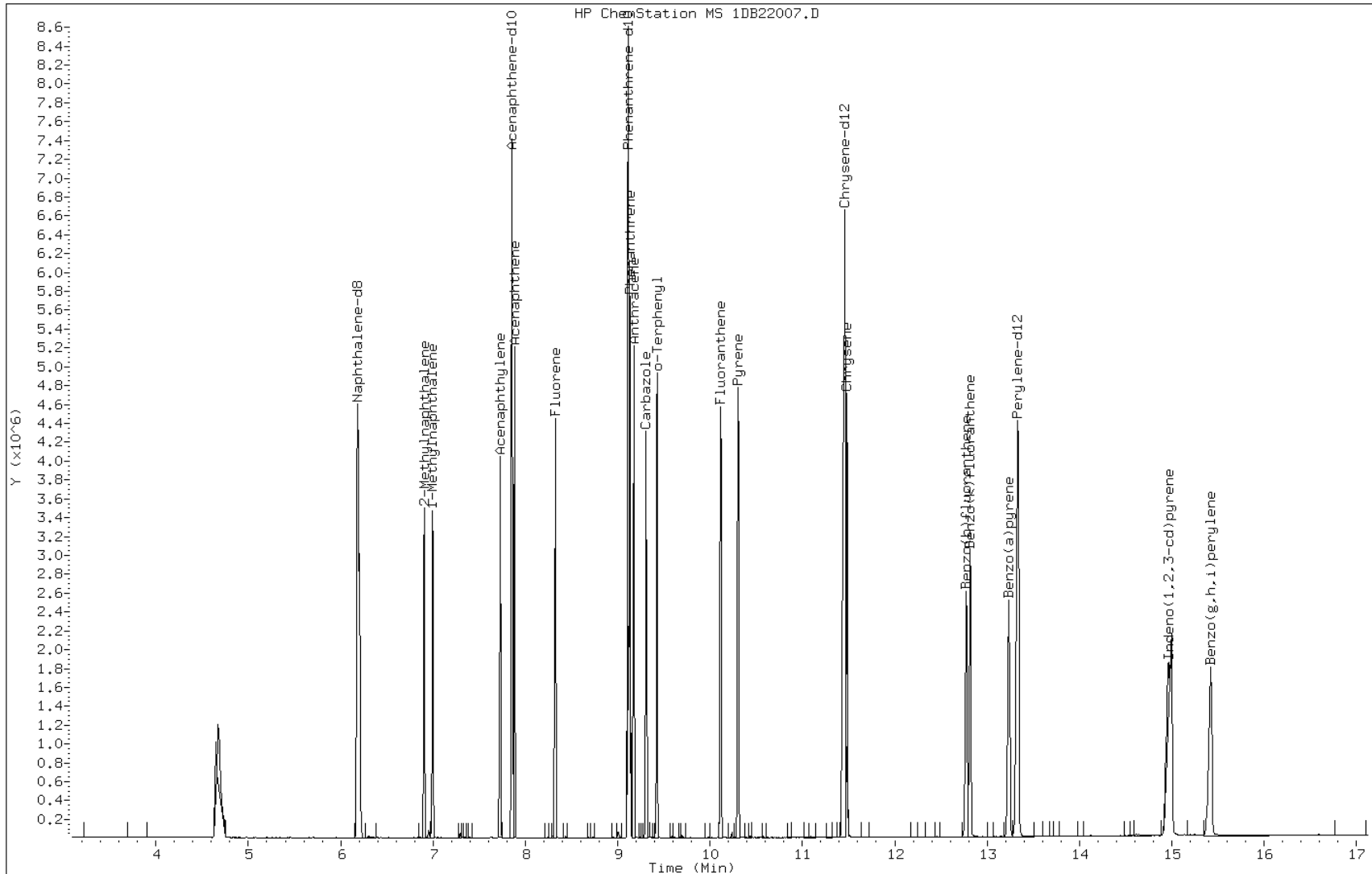
Date: 22-FEB-2013 13:43

Client ID:

Instrument: BSMSD.i

Sample Info: ICIS-1512372

Operator: SCC





TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22008.D  
 Lab Smp Id: IC-1512373  
 Inj Date : 22-FEB-2013 14:06  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : IC-1512373  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m  
 Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:43 Cal File: 1DB22007.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					ON-COL
			MASS	RT	EXP RT	REL RT	RESPONSE	
* 1 Naphthalene-d8	136		6.183	6.183	(1.000)	2913003	40.0000	
* 6 Acenaphthene-d10	164		7.852	7.852	(1.000)	1720184	40.0000	
* 9 Phenanthrene-d10	188		9.115	9.115	(1.000)	2807552	40.0000	
\$ 13 o-Terphenyl	230		9.427	9.427	(1.034)	1297334	30.0000	30
* 17 Chrysene-d12	240		11.460	11.460	(1.000)	2820426	40.0000	
* 22 Perylene-d12	264		13.340	13.340	(1.000)	2972128	40.0000	
2 Naphthalene	128		6.207	6.207	(1.004)	2298963	30.0000	30
3 2-Methylnaphthalene	142		6.906	6.906	(1.117)	1457082	30.0000	29
4 1-Methylnaphthalene	142		7.000	7.000	(1.132)	1381962	30.0000	30
5 Acenaphthylene	152		7.729	7.729	(0.984)	2298195	30.0000	30
7 Acenaphthene	154		7.881	7.881	(1.004)	1357997	30.0000	29
8 Fluorene	166		8.328	8.328	(1.061)	1633465	30.0000	30
10 Phenanthrene	178		9.133	9.133	(1.002)	2324547	30.0000	29
11 Anthracene	178		9.174	9.174	(1.006)	2404366	30.0000	30
12 Carbazole	167		9.309	9.309	(1.021)	2158453	30.0000	30
14 Fluoranthene	202		10.120	10.120	(1.110)	2502381	30.0000	30
15 Pyrene	202		10.308	10.308	(0.900)	2630026	30.0000	30
16 Benzo(a)anthracene	228		11.442	11.442	(0.998)	2334008	30.0000	28
18 Chrysene	228		11.489	11.489	(1.003)	2336752	30.0000	29
19 Benzo(b)fluoranthene	252		12.781	12.781	(0.958)	2331940	30.0000	30
20 Benzo(k)fluoranthene	252		12.828	12.828	(0.962)	2363523	30.0000	30
21 Benzo(a)pyrene	252		13.246	13.246	(0.993)	2336988	30.0000	31
23 Indeno(1,2,3-cd)pyrene	276		14.973	14.973	(1.122)	2546397	30.0000	32
24 Dibenzo(a,h)anthracene	278		15.008	15.008	(1.125)	2275035	30.0000	30(H)
25 Benzo(g,h,i)perylene	276		15.443	15.443	(1.158)	2336152	30.0000	30(H)

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: 1DB22008.D

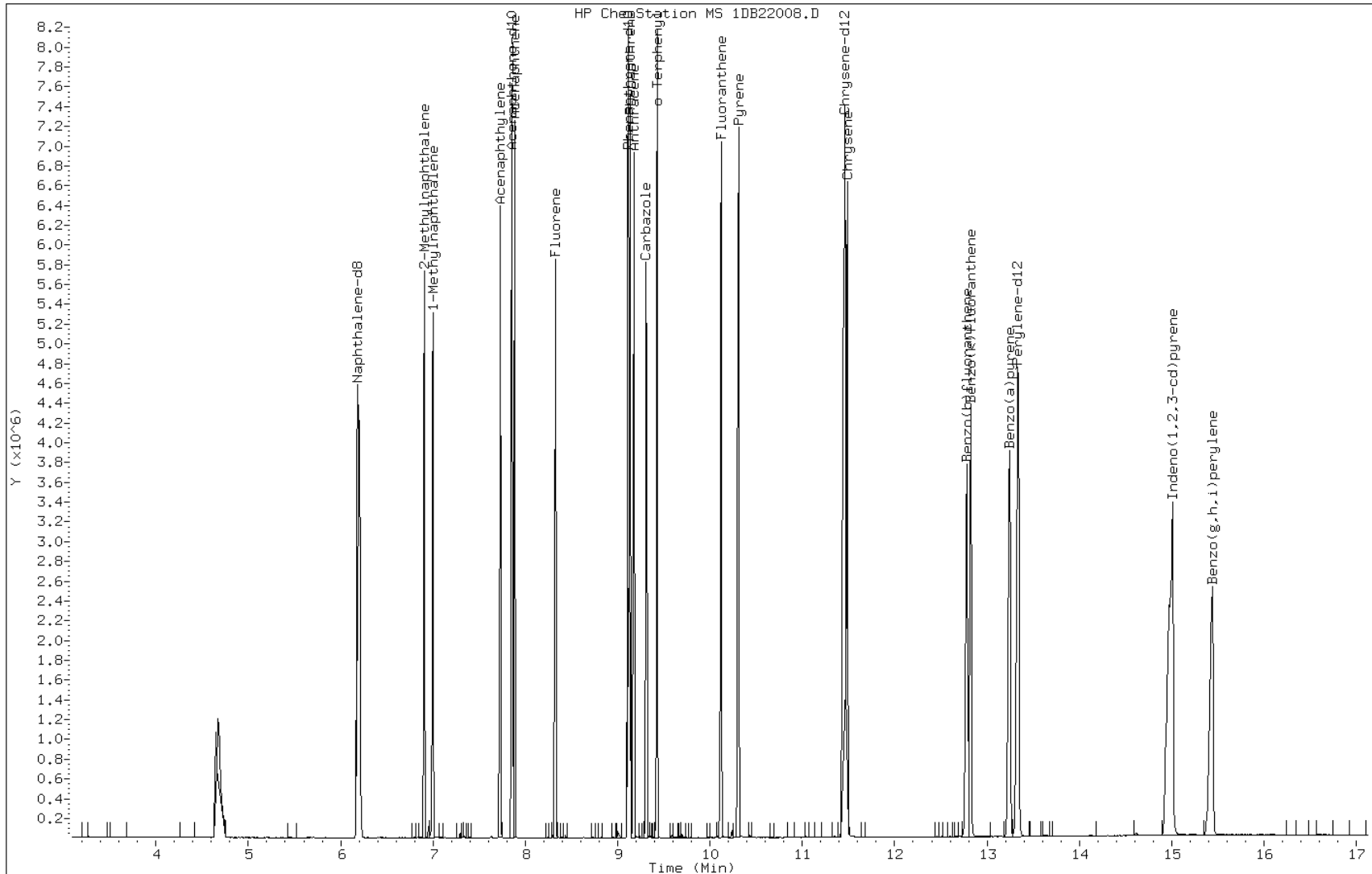
Date: 22-FEB-2013 14:06

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512373

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMSD.i\1D022213.b\1DB22009.D  
 Lab Smp Id: IC-1512374  
 Inj Date : 22-FEB-2013 14:28  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : IC-1512374  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m  
 Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:06 Cal File: 1DB22008.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/l)	ON-COL ( ug/l)
* 1 Naphthalene-d8	136	6.187	6.187	(1.000)	2844424	40.0000	
* 6 Acenaphthene-d10	164	7.856	7.856	(1.000)	1681359	40.0000	
* 9 Phenanthrene-d10	188	9.113	9.113	(1.000)	2759479	40.0000	
\$ 13 o-Terphenyl	230	9.430	9.430	(1.035)	2061660	50.0000	48
* 17 Chrysene-d12	240	11.463	11.463	(1.000)	2783202	40.0000	
* 22 Perylene-d12	264	13.344	13.344	(1.000)	2928183	40.0000	
2 Naphthalene	128	6.205	6.205	(1.003)	3699527	50.0000	49
3 2-Methylnaphthalene	142	6.910	6.910	(1.117)	2392281	50.0000	49
4 1-Methylnaphthalene	142	6.998	6.998	(1.131)	2225072	50.0000	49
5 Acenaphthylene	152	7.732	7.732	(0.984)	3717778	50.0000	50(A)
7 Acenaphthene	154	7.885	7.885	(1.004)	2184846	50.0000	48
8 Fluorene	166	8.326	8.326	(1.060)	2631357	50.0000	50
10 Phenanthrene	178	9.137	9.137	(1.003)	3708574	50.0000	47
11 Anthracene	178	9.184	9.184	(1.008)	3900989	50.0000	50
12 Carbazole	167	9.313	9.313	(1.022)	3485796	50.0000	50
14 Fluoranthene	202	10.124	10.124	(1.111)	3974777	50.0000	49
15 Pyrene	202	10.312	10.312	(0.900)	4199944	50.0000	49
16 Benzo(a)anthracene	228	11.446	11.446	(0.998)	3791270	50.0000	46
18 Chrysene	228	11.499	11.499	(1.003)	3771462	50.0000	48
19 Benzo(b)fluoranthene	252	12.791	12.791	(0.959)	3853307	50.0000	51(A)
20 Benzo(k)fluoranthene	252	12.838	12.838	(0.962)	3832862	50.0000	48
21 Benzo(a)pyrene	252	13.261	13.261	(0.994)	3794269	50.0000	51(A)
23 Indeno(1,2,3-cd)pyrene	276	14.995	14.995	(1.124)	4194422	50.0000	53(AM)
24 Dibenzo(a,h)anthracene	278	15.030	15.030	(1.126)	3730665	50.0000	51(AH)
25 Benzo(g,h,i)perylene	276	15.465	15.465	(1.159)	3809441	50.0000	50(AH)

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: 1DB22009.D

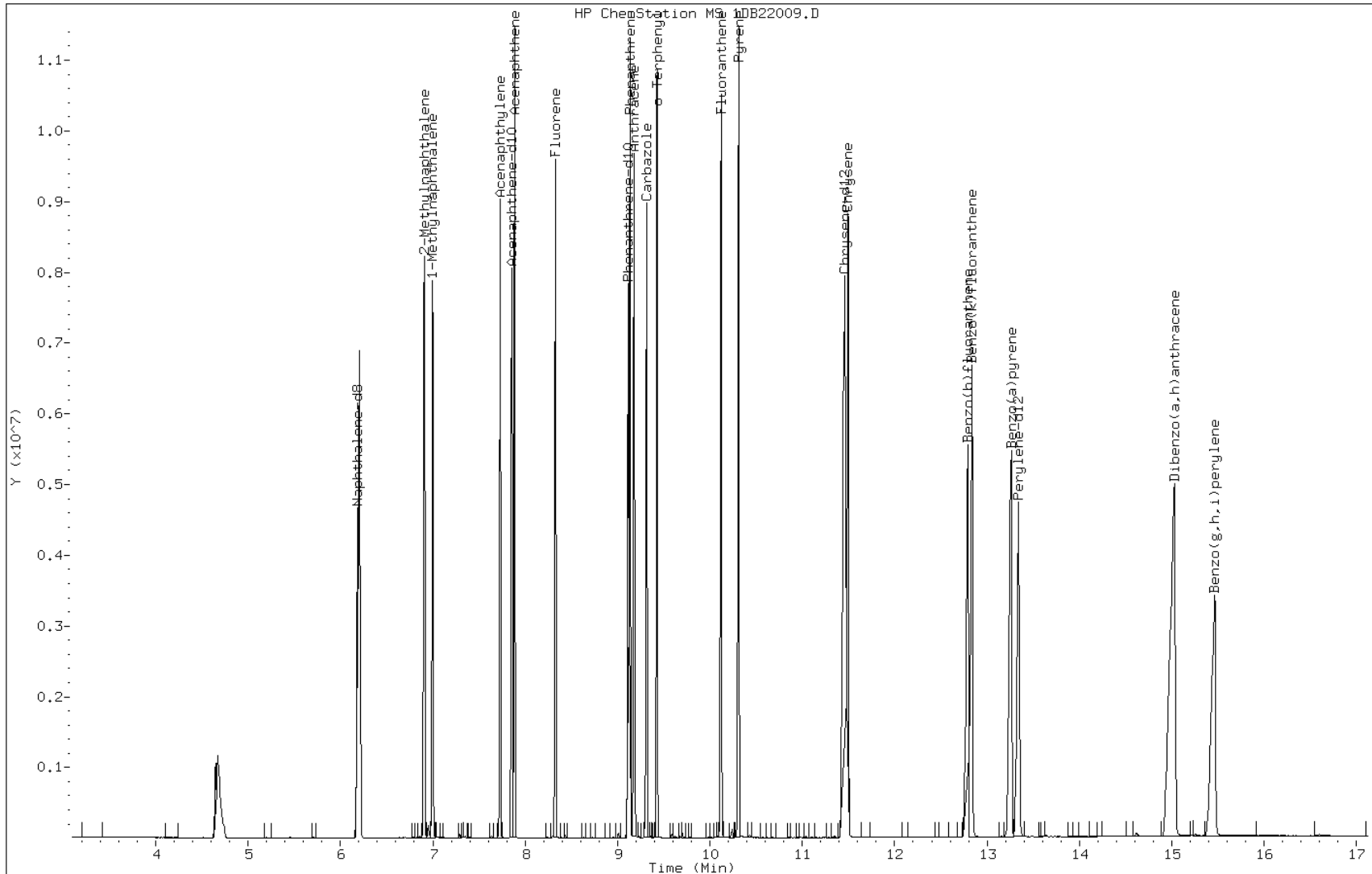
Date: 22-FEB-2013 14:28

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512374

Operator: SCC

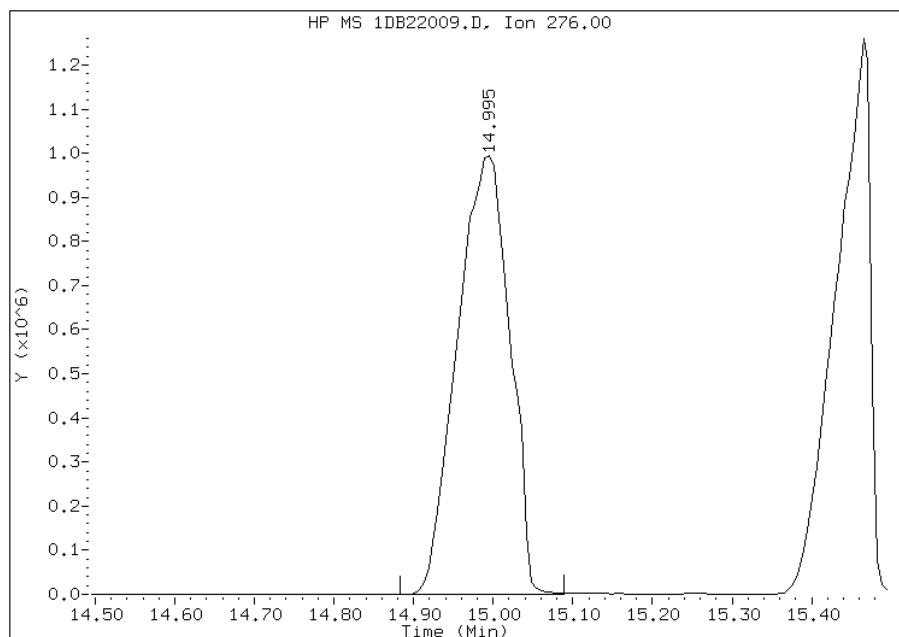


Manual Integration Report

Data File: 1DB22009.D  
Inj. Date and Time: 22-FEB-2013 14:28  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

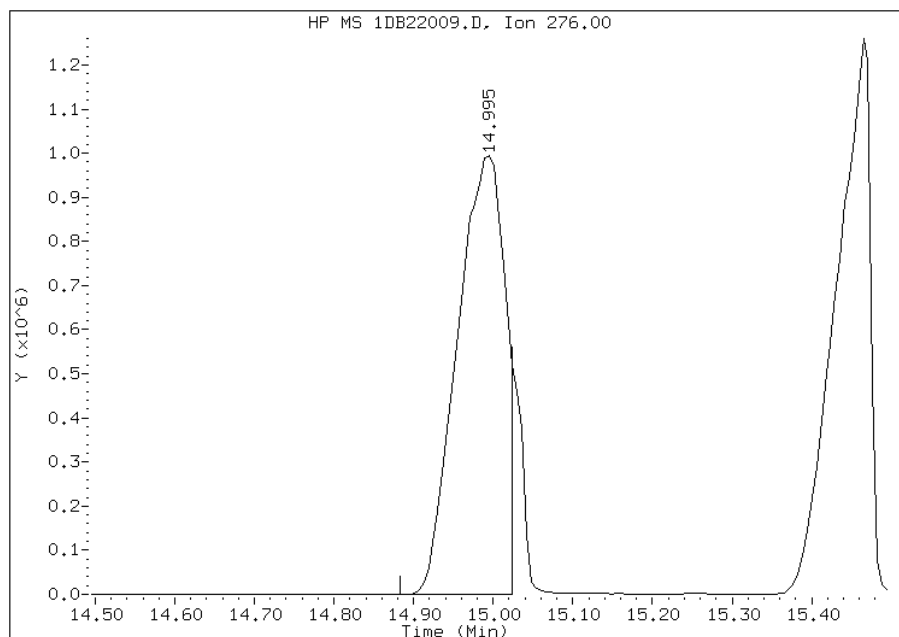
Processing Integration Results

RT: 15.00  
Response: 4559640  
Amount: 57  
Conc: 57



Manual Integration Results

RT: 15.00  
Response: 4194422  
Amount: 53  
Conc: 53



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 15:00  
Manual Integration Reason: Split Peak

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Lab Sample ID: ICV 660-134776/10 Calibration Date: 02/22/2013 14:06  
 Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 13:48  
 Lab File ID: 1CB22010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	0.9304	0.0000	17900	20000	-10.7	35.0
2-Methylnaphthalene	Ave	0.6946	0.6168	0.0000	17800	20000	-11.2	35.0
1-Methylnaphthalene	Ave	0.6326	0.5884	0.0000	18600	20000	-7.0	35.0
Acenaphthylene	Ave	1.613	1.474	0.0000	18300	20000	-8.6	35.0
Acenaphthene	Ave	1.002	0.9523	0.0000	19000	20000	-5.0	35.0
Fluorene	Ave	1.268	1.140	0.0000	18000	20000	-10.1	35.0
Phenanthrene	Ave	1.157	0.9494	0.0000	16400	20000	-17.9	35.0
Anthracene	Ave	1.131	0.9716	0.0000	17200	20000	-14.1	35.0
Carbazole	Ave	1.006	0.8745	0.0000	17400	20000	-13.0	35.0
Fluoranthene	Ave	1.267	1.118	0.0000	17700	20000	-11.7	35.0
Pyrene	Ave	1.075	0.8809	0.0000	16400	20000	-18.1	35.0
Benzo[a]anthracene	Ave	1.154	0.9788	0.0000	17000	20000	-15.2	35.0
Chrysene	Ave	1.155	0.9170	0.0000	15900	20000	-20.6	35.0
Benzo[b]fluoranthene	Ave	1.045	0.9777	0.0000	18700	20000	-6.5	35.0
Benzo[k]fluoranthene	Ave	1.072	0.8826	0.0000	16500	20000	-17.7	35.0
Benzo[a]pyrene	Ave	1.015	0.7948	0.0000	15700	20000	-21.7	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.8384	0.0000	17600	20000	-12.2	35.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8876	0.0000	19000	20000	-5.0	35.0
Benzo[g,h,i]perylene	Ave	0.999	0.8655	0.0000	17300	20000	-13.4	35.0
o-Terphenyl	Ave	0.6039	0.4936	0.0000	16300	20000	-18.3	35.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22010.D  
 Lab Smp Id: ICV-1448440  
 Inj Date : 22-FEB-2013 14:06  
 Operator : SCC  
 Smp Info : ICV-1448440  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\A-BFASTPAHi-m.m  
 Meth Date : 22-Feb-2013 14:18 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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		3.804	3.804	(1.000)	1383069	40.0000		
* 6 Acenaphthene-d10	164		4.892	4.892	(1.000)	1075067	40.0000		
* 10 Phenanthrene-d10	188		5.845	5.845	(1.000)	2141313	40.0000		
\$ 14 o-Terphenyl	230		6.098	6.098	(1.043)	528461	16.3458	16.3457	
* 18 Chrysene-d12	240		7.798	7.798	(1.000)	2766374	40.0000		
* 23 Perylene-d12	264		9.015	9.016	(1.000)	3034368	40.0000		
2 Naphthalene	128		3.816	3.816	(1.003)	643385	17.8686	17.8685	
3 2-Methylnaphthalene	142		4.245	4.245	(1.116)	426527	17.7587	17.7586	
4 1-Methylnaphthalene	142		4.304	4.304	(1.131)	406896	18.6013	18.6013	
5 Acenaphthylene	152		4.804	4.804	(0.982)	792099	18.2750	18.2749	
7 Acenaphthene	154		4.910	4.910	(1.004)	511893	19.0010	19.0010	
9 Fluorene	166		5.233	5.234	(1.070)	612561	17.9790	17.9790	
11 Phenanthrene	178		5.863	5.863	(1.003)	1016506	16.4172	16.4171	
12 Anthracene	178		5.898	5.898	(1.009)	1040221	17.1782	17.1781	
13 Carbazole	167		6.004	6.004	(1.027)	936321	17.3944	17.3943	
15 Fluoranthene	202		6.704	6.704	(1.147)	1196804	17.6502	17.6501	
16 Pyrene	202		6.874	6.875	(0.882)	1218381	16.3888	16.3887	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL ( ug/l)
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	1353867	16.9566	16.9566
19 Chrysene	228	7.815	7.822	(1.002)	1268380	15.8740	15.8740
20 Benzo(b)fluoranthene	252	8.656	8.657	(0.960)	1483299	18.7051	18.7050
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	1339047	16.4606	16.4605
22 Benzo(a)pyrene	252	8.956	8.963	(0.993)	1205817	15.6548	15.6547
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.239	(1.135)	1271997	17.5546	17.5546(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.257	(1.137)	1346652	19.0003	19.0002
26 Benzo(g,h,i)perylene	276	10.597	10.610	(1.175)	1313135	17.3240	17.3240

QC Flag Legend

M - Compound response manually integrated.



Data File: 1CB22010.D

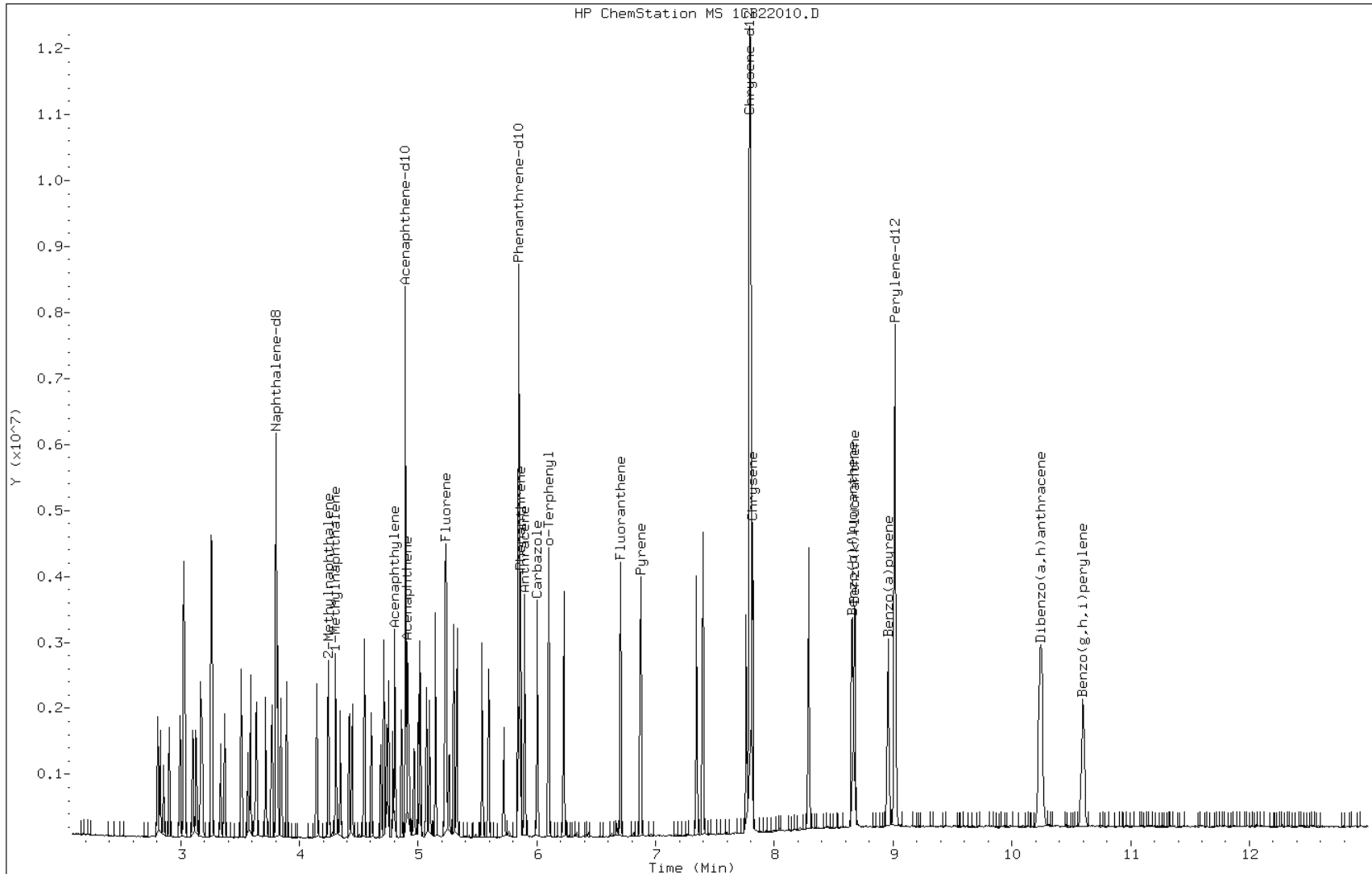
Date: 22-FEB-2013 14:06

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC

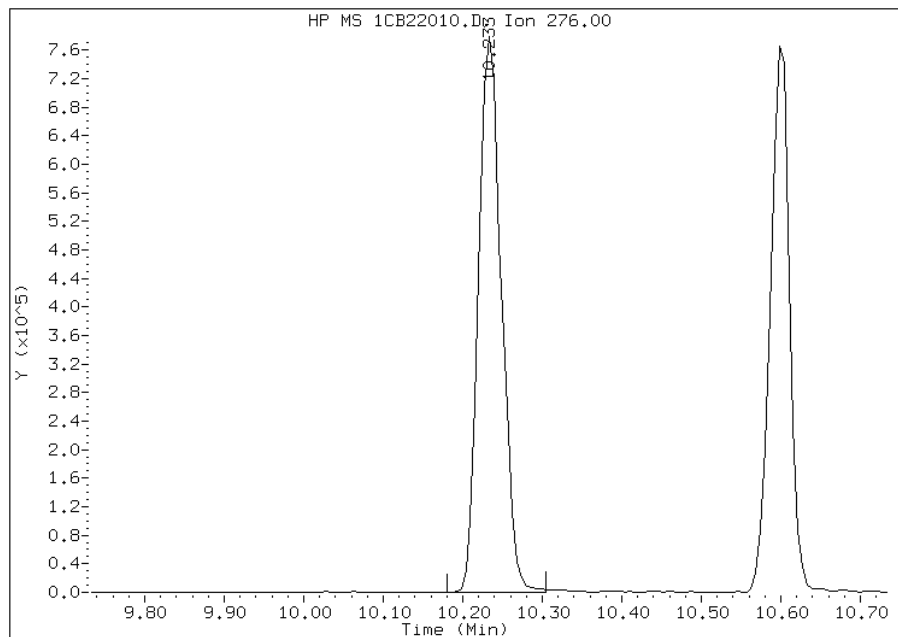


# Manual Integration Report

Data File: 1CB22010.D  
Inj. Date and Time: 22-FEB-2013 14:06  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

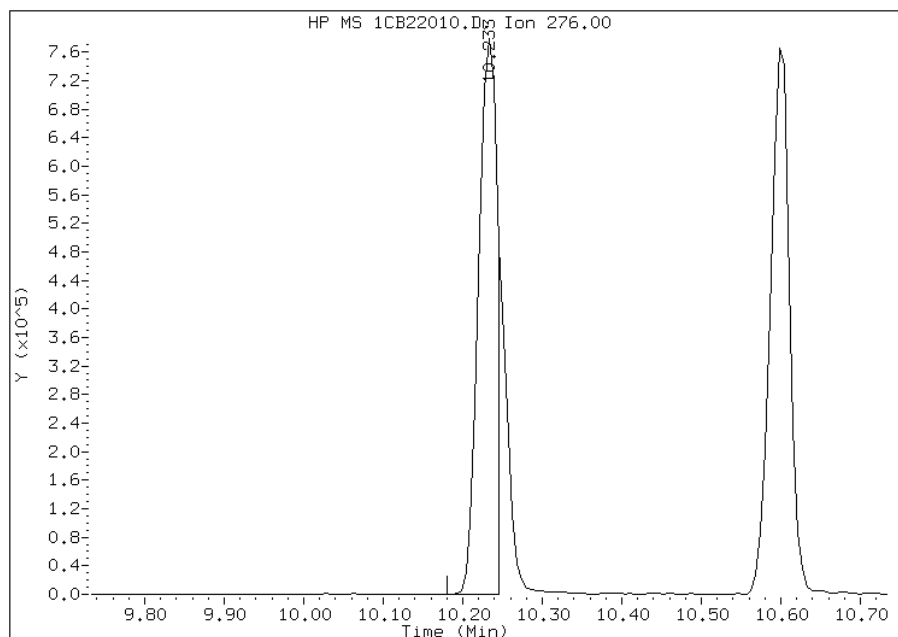
## Processing Integration Results

RT: 10.23  
Response: 1550656  
Amount: 21  
Conc: 21



## Manual Integration Results

RT: 10.23  
Response: 1271997  
Amount: 18  
Conc: 18



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:21  
Manual Integration Reason: Split Peak

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Lab Sample ID: CCVIS 660-135830/3 Calibration Date: 03/27/2013 10:35  
 Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 13:48  
 Lab File ID: 1CC27003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.070	0.0000	20600	20000	2.8	20.0
2-Methylnaphthalene	Ave	0.6946	0.6931	0.0000	20000	20000	-0.2	20.0
1-Methylnaphthalene	Ave	0.6326	0.6567	0.0000	20800	20000	3.8	20.0
Acenaphthylene	Ave	1.613	1.678	0.0000	20800	20000	4.0	20.0
Acenaphthene	Ave	1.002	0.9708	0.0000	19400	20000	-3.1	20.0
Fluorene	Ave	1.268	1.250	0.0000	19700	20000	-1.4	20.0
Phenanthrene	Ave	1.157	1.115	0.0000	19300	20000	-3.6	20.0
Anthracene	Ave	1.131	1.111	0.0000	19600	20000	-1.8	20.0
Carbazole	Ave	1.006	1.004	0.0000	20000	20000	-0.2	20.0
Fluoranthene	Ave	1.267	1.264	0.0000	20000	20000	-0.2	20.0
Pyrene	Ave	1.075	1.116	0.0000	20800	20000	3.8	20.0
Benzo[a]anthracene	Ave	1.154	1.067	0.0000	18500	20000	-7.6	20.0
Chrysene	Ave	1.155	1.108	0.0000	19200	20000	-4.1	20.0
Benzo[b]fluoranthene	Ave	1.045	1.036	0.0000	19800	20000	-0.9	20.0
Benzo[k]fluoranthene	Ave	1.072	1.141	0.0000	21300	20000	6.4	20.0
Benzo[a]pyrene	Ave	1.015	1.040	0.0000	20500	20000	2.4	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	1.019	0.0000	21300	20000	6.7	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.9194	0.0000	19700	20000	-1.6	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9809	0.0000	19600	20000	-1.8	20.0
o-Terphenyl	Ave	0.6039	0.5973	0.0000	19800	20000	-1.1	20.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27003.D  
 Lab Smp Id: CCVIS-1512372  
 Inj Date : 27-MAR-2013 10:35  
 Operator : SCC  
 Smp Info : CCVIS-1512372  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m  
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	3.727	3.727	(1.000)	740866	40.0000	(H)
* 6 Acenaphthene-d10	164	4.815	4.815	(1.000)	575327	40.0000	
* 10 Phenanthrene-d10	188	5.762	5.762	(1.000)	1092531	40.0000	(H)
\$ 14 o-Terphenyl	230	6.015	6.015	(1.044)	326267	20.0000	19.7793(H)
* 18 Chrysene-d12	240	7.704	7.704	(1.000)	1389214	40.0000	(H)
* 23 Perylene-d12	264	8.886	8.886	(1.000)	1427635	40.0000	(H)
2 Naphthalene	128	3.739	3.739	(1.003)	396388	20.0000	20.5515(H)
3 2-Methylnaphthalene	142	4.168	4.168	(1.118)	256741	20.0000	19.9555(H)
4 1-Methylnaphthalene	142	4.227	4.227	(1.134)	243257	20.0000	20.7601(H)
5 Acenaphthylene	152	4.727	4.727	(0.982)	482667	20.0000	20.8087
7 Acenaphthene	154	4.833	4.833	(1.004)	279269	20.0000	19.3705
9 Fluorene	166	5.157	5.157	(1.071)	359663	20.0000	19.7257
11 Phenanthrene	178	5.780	5.780	(1.003)	609016	20.0000	19.2780(H)
12 Anthracene	178	5.815	5.815	(1.009)	606997	20.0000	19.6464(H)
13 Carbazole	167	5.921	5.921	(1.028)	548301	20.0000	19.9640(H)
15 Fluoranthene	202	6.615	6.615	(1.148)	690237	20.0000	19.9512(H)
16 Pyrene	202	6.786	6.786	(0.881)	775208	20.0000	20.7646(H)
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	741118	20.0000	18.4838(H)
19 Chrysene	228	7.727	7.727	(1.003)	769393	20.0000	19.1746(H)
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	739836	20.0000	19.8297(H)
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.964)	814806	20.0000	21.2889(H)
22 Benzo(a)pyrene	252	8.833	8.833	(0.994)	742319	20.0000	20.4836(H)
24 Indeno(1,2,3-cd)pyrene	276	10.050	10.050	(1.131)	727254	20.0000	21.3325(MH)
25 Dibenzo(a,h)anthracene	278	10.068	10.068	(1.133)	656298	20.0000	19.6814(H)
26 Benzo(g,h,i)perylene	276	10.397	10.397	(1.170)	700171	20.0000	19.6333(H)

QC Flag Legend

M - Compound response manually integrated.  
 H - Operator selected an alternate compound hit.

Data File: 1CC27003.D

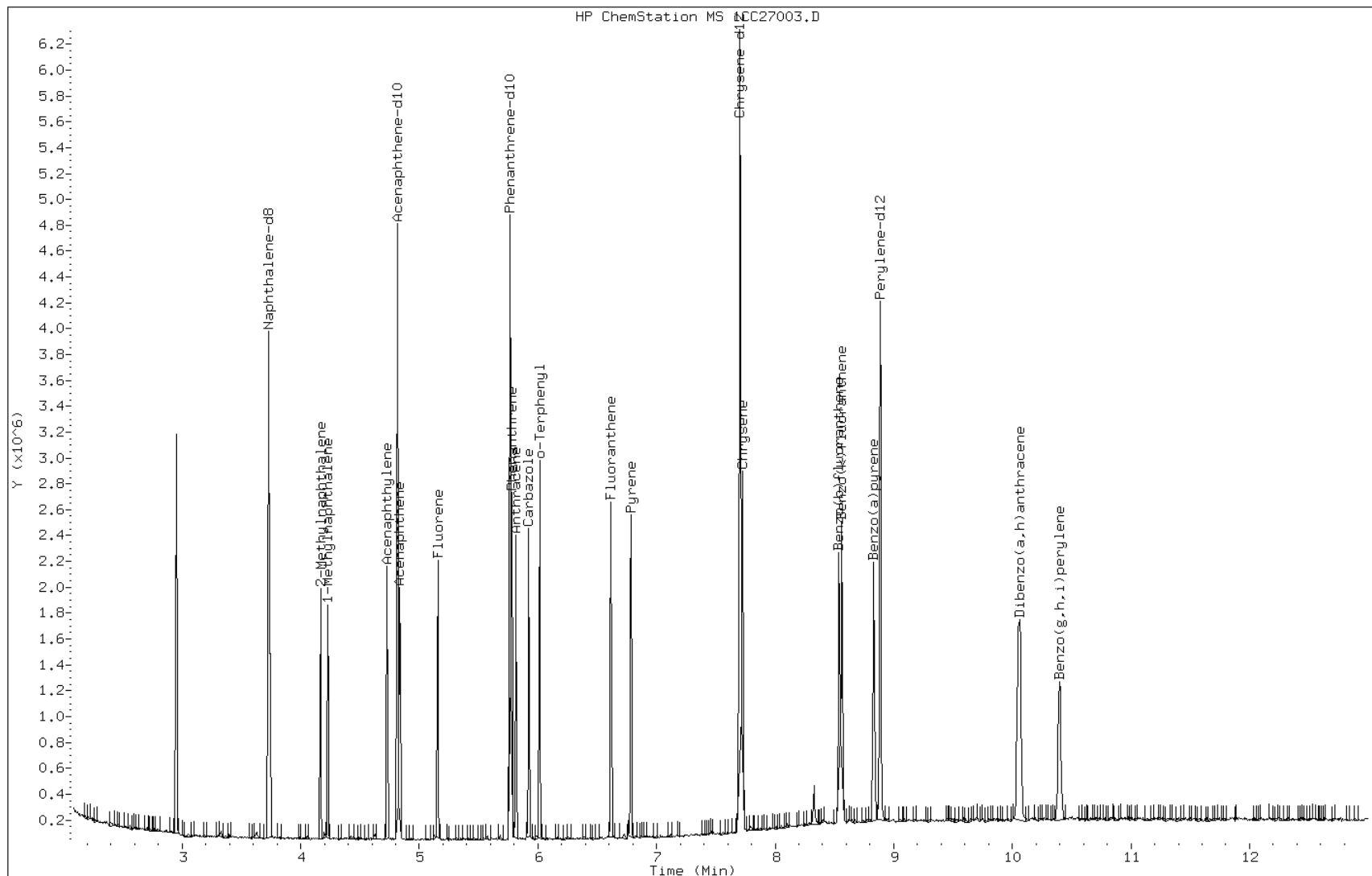
Date: 27-MAR-2013 10:35

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1512372

Operator: SCC

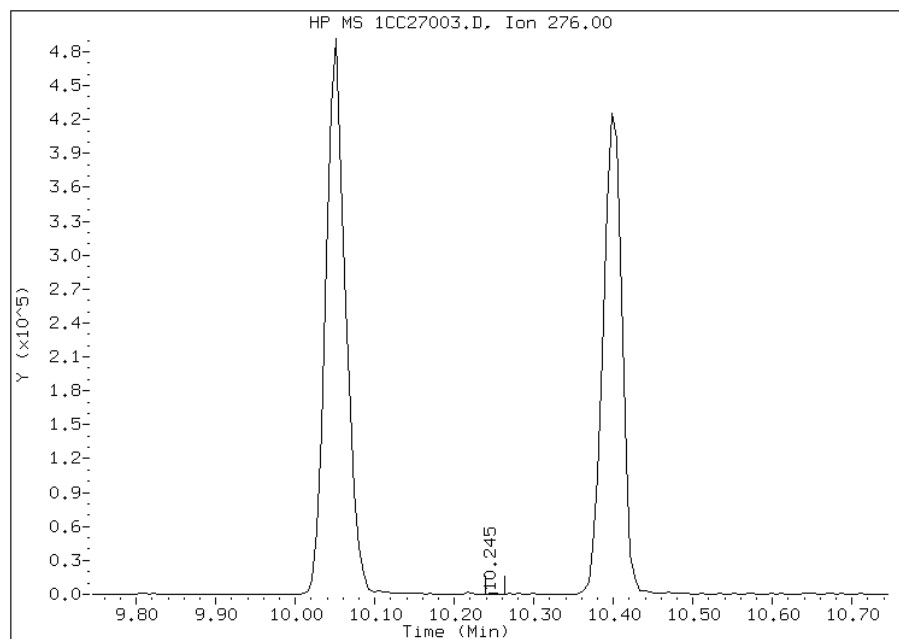


# Manual Integration Report

Data File: 1CC27003.D  
Inj. Date and Time: 27-MAR-2013 10:35  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/27/2013

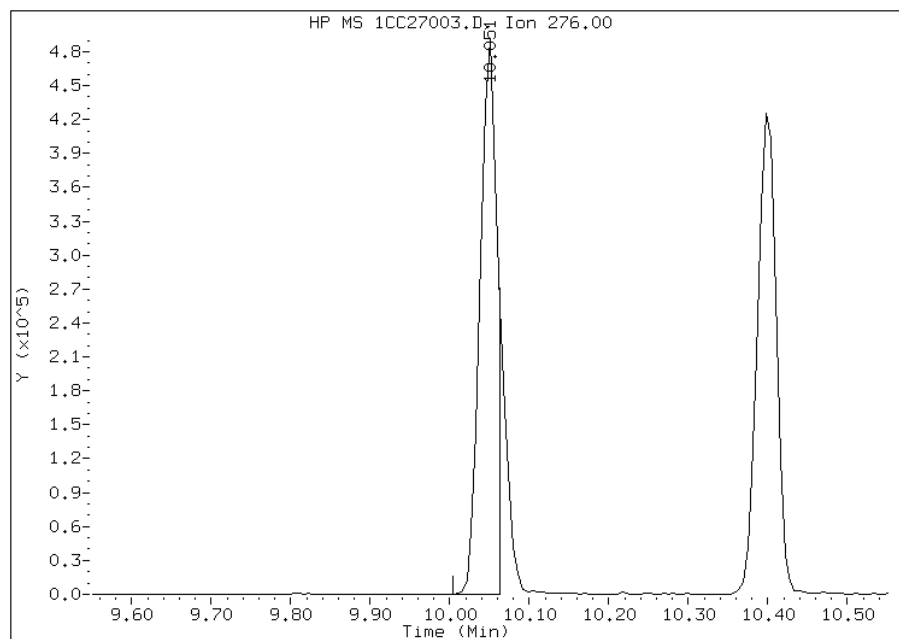
## Processing Integration Results

RT: 10.25  
Response: 881  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 10.05  
Response: 727254  
Amount: 21  
Conc: 21



Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 10:50  
Manual Integration Reason: Split Peak

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Lab Sample ID: ICV 660-134781/10 Calibration Date: 02/22/2013 14:51  
 Instrument ID: BSMD5973 Calib Start Date: 02/22/2013 12:13  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 14:28  
 Lab File ID: 1DB22010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.070	0.9509	0.0000	17800	20000	-11.1	35.0
2-Methylnaphthalene	Ave	0.6816	0.6138	0.0000	18000	20000	-9.9	35.0
1-Methylnaphthalene	Ave	0.6383	0.5884	0.0000	18400	20000	-7.8	35.0
Acenaphthylene	Ave	1.764	1.543	0.0000	17500	20000	-12.5	35.0
Acenaphthene	Ave	1.075	0.9046	0.0000	16800	20000	-15.9	35.0
Fluorene	Ave	1.256	1.107	0.0000	17600	20000	-11.9	35.0
Phenanthrene	Ave	1.135	0.9678	0.0000	17000	20000	-14.8	35.0
Anthracene	Ave	1.136	0.9920	0.0000	17500	20000	-12.7	35.0
Carbazole	Ave	1.016	0.8513	0.0000	16800	20000	-16.2	35.0
Fluoranthene	Ave	1.185	1.044	0.0000	17600	20000	-11.9	35.0
Pyrene	Ave	1.241	1.040	0.0000	16800	20000	-16.1	35.0
Benzo[a]anthracene	LinF	1.184	1.006	0.0000	18400	20000	-8.1	35.0
Chrysene	Ave	1.131	0.9327	0.0000	16500	20000	-17.5	35.0
Benzo[b]fluoranthene	Ave	1.030	0.9311	0.0000	18100	20000	-9.6	35.0
Benzo[k]fluoranthene	Ave	1.078	0.9609	0.0000	17800	20000	-10.9	35.0
Benzo[a]pyrene	Ave	1.019	0.8258	0.0000	16200	20000	-19.0	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.087	0.9629	0.0000	17700	20000	-11.4	35.0
Dibenz(a,h)anthracene	Ave	1.004	0.9897	0.0000	19700	20000	-1.4	35.0
Benzo[g,h,i]perylene	Ave	1.037	0.9265	0.0000	17900	20000	-10.6	35.0
o-Terphenyl	Ave	0.6186	0.5223	0.0000	16900	20000	-15.6	35.0

TestAmerica Laboratories

Semivolatiles 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22010.D  
 Lab Smp Id: ICV-1448440  
 Inj Date : 22-FEB-2013 14:51  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : ICV-1448440  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m  
 Meth Date : 22-Feb-2013 15:03 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.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/l)	FINAL ( ug/l)
* 1 Naphthalene-d8			136	6.186	6.188	(1.000)	3227519	40.0000	
* 6 Acenaphthene-d10			164	7.861	7.856	(1.000)	1973397	40.0000	
* 9 Phenanthrene-d10			188	9.118	9.114	(1.000)	3226971	40.0000	
\$ 13 o-Terphenyl			230	9.424	9.431	(1.034)	842705	16.8872	17
* 17 Chrysene-d12			240	11.463	11.464	(1.000)	3262056	40.0000	
* 22 Perylene-d12			264	13.343	13.344	(1.000)	3389756	40.0000	
2 Naphthalene			128	6.204	6.205	(1.003)	1534495	17.7730	18
3 2-Methylnaphthalene			142	6.903	6.910	(1.116)	990529	18.0102	18
4 1-Methylnaphthalene			142	6.997	6.999	(1.131)	949525	18.4366	18
5 Acenaphthylene			152	7.732	7.733	(0.984)	1522763	17.5026	18
7 Acenaphthene			154	7.884	7.886	(1.003)	892518	16.8249	17
8 Fluorene			166	8.325	8.326	(1.059)	1091870	17.6166	18
10 Phenanthrene			178	9.136	9.137	(1.002)	1561459	17.0459	17
11 Anthracene			178	9.177	9.184	(1.006)	1600546	17.4635	17
12 Carbazole			167	9.324	9.313	(1.023)	1373599	16.7651	17(M)
14 Fluoranthene			202	10.117	10.124	(1.110)	1683952	17.6156	18
15 Pyrene			202	10.305	10.312	(0.899)	1697011	16.7712	17



Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL ( ug/l)
-----	----	----	-----	-----	-----	-----	-----
16 Benzo(a)anthracene	228	11.439	11.446	(0.998)	1641298	18.3780	18
18 Chrysene	228	11.486	11.499	(1.002)	1521333	16.5002	16
19 Benzo(b)fluoranthene	252	12.779	12.792	(0.958)	1578092	18.0867	18
20 Benzo(k)fluoranthene	252	12.820	12.839	(0.961)	1628670	17.8278	18
21 Benzo(a)pyrene	252	13.243	13.262	(0.993)	1399541	16.2092	16
23 Indeno(1,2,3-cd)pyrene	276	14.964	14.995	(1.122)	1631960	17.7111	18(H)
24 Dibenzo(a,h)anthracene	278	15.000	15.030	(1.124)	1677351	19.7111	20
25 Benzo(g,h,i)perylene	276	15.428	15.465	(1.156)	1570269	17.8738	18

QC Flag Legend

- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File: 1DB22010.D

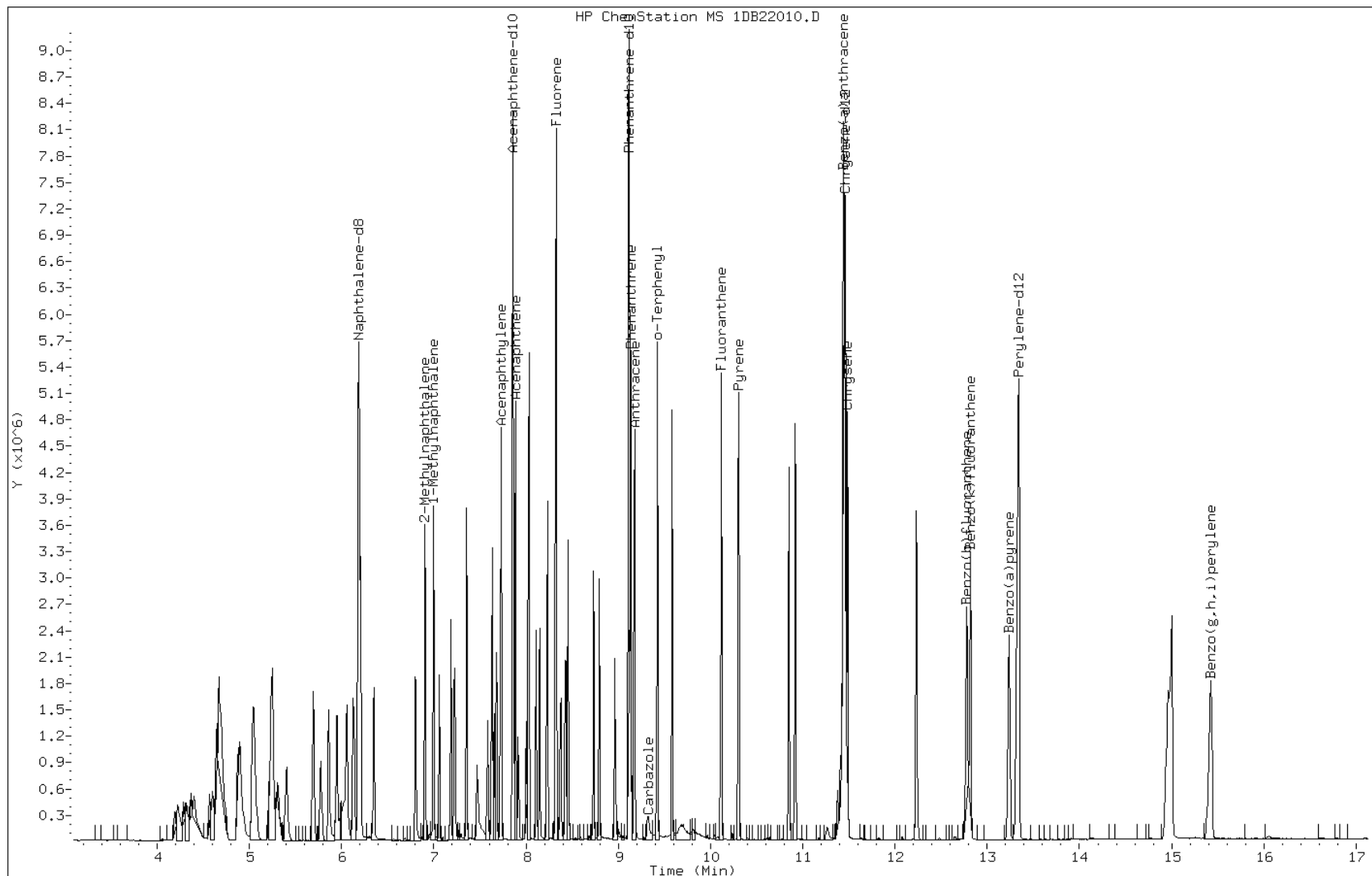
Date: 22-FEB-2013 14:51

Client ID:

Instrument: BSMSD.i

Sample Info: ICV-1448440

Operator: SCC

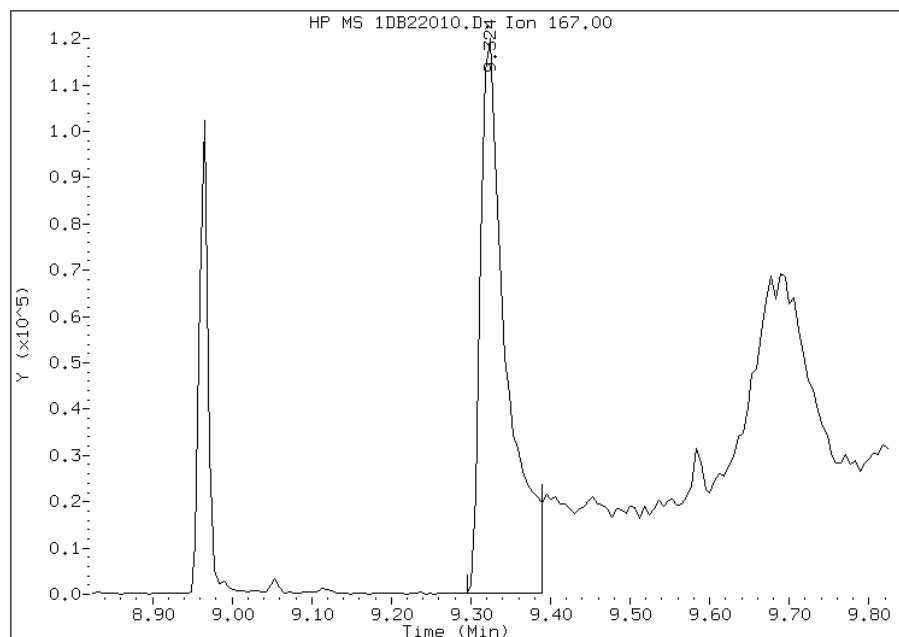


# Manual Integration Report

Data File: 1DB22010.D  
Inj. Date and Time: 22-FEB-2013 14:51  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 12 Carbazole  
CAS #: 86-74-8  
Report Date: 02/22/2013

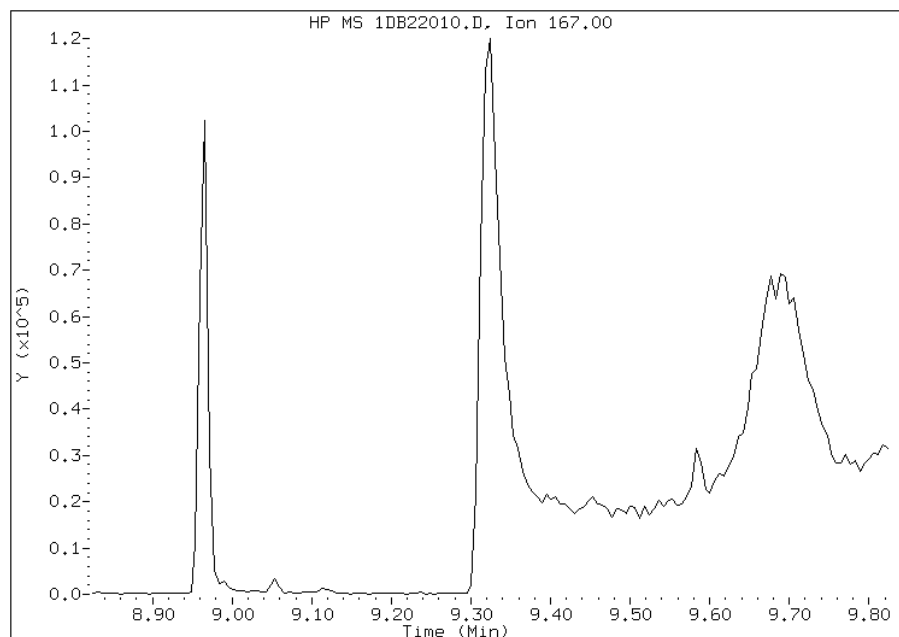
## Processing Integration Results

RT: 9.32  
Response: 270307  
Amount: 3  
Conc: 3



## Manual Integration Results

RT: 9.32  
Response: 1373599  
Amount: 17  
Conc: 17



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 15:27  
Manual Integration Reason: Baseline Event

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Lab Sample ID: CCVIS 660-136038/9 Calibration Date: 03/28/2013 14:57  
 Instrument ID: BSMD5973 Calib Start Date: 02/22/2013 12:13  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 14:28  
 Lab File ID: 1DC28009.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.070	1.030	0.0000	19300	20000	-3.7	20.0
2-Methylnaphthalene	Ave	0.6816	0.6826	0.0000	20000	20000	0.1	20.0
1-Methylnaphthalene	Ave	0.6383	0.6307	0.0000	19800	20000	-1.2	20.0
Acenaphthylene	Ave	1.764	1.679	0.0000	19000	20000	-4.8	20.0
Acenaphthene	Ave	1.075	1.005	0.0000	18700	20000	-6.6	20.0
Fluorene	Ave	1.256	1.231	0.0000	19600	20000	-2.0	20.0
Phenanthrene	Ave	1.135	1.074	0.0000	18900	20000	-5.4	20.0
Anthracene	Ave	1.136	1.088	0.0000	19200	20000	-4.2	20.0
Carbazole	Ave	1.016	0.9355	0.0000	18400	20000	-7.9	20.0
Fluoranthene	Ave	1.185	1.158	0.0000	19500	20000	-2.3	20.0
Pyrene	Ave	1.241	1.170	0.0000	18900	20000	-5.7	20.0
Benzo[a]anthracene	LinF	1.184	1.038	0.0000	19000	20000	-5.2	20.0
Chrysene	Ave	1.131	1.026	0.0000	18200	20000	-9.2	20.0
Benzo[b]fluoranthene	Ave	1.030	0.9837	0.0000	19100	20000	-4.5	20.0
Benzo[k]fluoranthene	Ave	1.078	1.023	0.0000	19000	20000	-5.1	20.0
Benzo[a]pyrene	Ave	1.019	0.996	0.0000	19600	20000	-2.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.087	1.054	0.0000	19400	20000	-3.1	20.0
Dibenz(a,h)anthracene	Ave	1.004	1.001	0.0000	19900	20000	-0.3	20.0
Benzo[g,h,i]perylene	Ave	1.037	1.004	0.0000	19400	20000	-3.2	20.0
o-Terphenyl	Ave	0.6186	0.6180	0.0000	20000	20000	-0.0	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28009.D  
 Lab Smp Id: CCVIS-1512372  
 Inj Date : 28-MAR-2013 14:57  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : CCVIS-1512372  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dfASTPAHi.m  
 Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 9 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/l)	ON-COL ( ug/l)
* 1 Naphthalene-d8	136	6.102	6.102	(1.000)	3447549	40.0000	(H)
* 6 Acenaphthene-d10	164	7.777	7.777	(1.000)	2210474	40.0000	(H)
* 9 Phenanthrene-d10	188	9.040	9.040	(1.000)	3698385	40.0000	(H)
\$ 13 o-Terphenyl	230	9.351	9.351	(1.034)	1142813	20.0000	20(H)
* 17 Chrysene-d12	240	11.373	11.373	(1.000)	3890381	40.0000	(H)
* 22 Perylene-d12	264	13.223	13.223	(1.000)	4013621	40.0000	(H)
2 Naphthalene	128	6.126	6.126	(1.004)	1775883	20.0000	19(H)
3 2-Methylnaphthalene	142	6.825	6.825	(1.118)	1176660	20.0000	20(H)
4 1-Methylnaphthalene	142	6.919	6.919	(1.134)	1087154	20.0000	20(H)
5 Acenaphthylene	152	7.653	7.653	(0.984)	1856038	20.0000	19(H)
7 Acenaphthene	154	7.806	7.806	(1.004)	1110279	20.0000	19(H)
8 Fluorene	166	8.247	8.247	(1.060)	1360386	20.0000	20(H)
10 Phenanthrene	178	9.064	9.064	(1.003)	1986764	20.0000	19(H)
11 Anthracene	178	9.099	9.099	(1.006)	2012789	20.0000	19(H)
12 Carbazole	167	9.240	9.240	(1.022)	1729871	20.0000	18(H)
14 Fluoranthene	202	10.045	10.045	(1.111)	2141146	20.0000	20(H)
15 Pyrene	202	10.233	10.233	(0.900)	2275229	20.0000	19(H)
16 Benzo(a)anthracene	228	11.349	11.349	(0.998)	2018846	20.0000	19(H)
18 Chrysene	228	11.396	11.396	(1.002)	1996328	20.0000	18(H)
19 Benzo(b)fluoranthene	252	12.671	12.671	(0.958)	1974150	20.0000	19(H)
20 Benzo(k)fluoranthene	252	12.712	12.712	(0.961)	2053634	20.0000	19(H)
21 Benzo(a)pyrene	252	13.124	13.124	(0.992)	1999552	20.0000	20(H)
23 Indeno(1,2,3-cd)pyrene	276	14.827	14.827	(1.121)	2114905	20.0000	19(MH)
24 Dibenzo(a,h)anthracene	278	14.863	14.863	(1.124)	2008289	20.0000	20(H)
25 Benzo(g,h,i)perylene	276	15.280	15.280	(1.156)	2014741	20.0000	19(H)

QC Flag Legend

M - Compound response manually integrated.  
 H - Operator selected an alternate compound hit.

Data File: 1DC28009.D

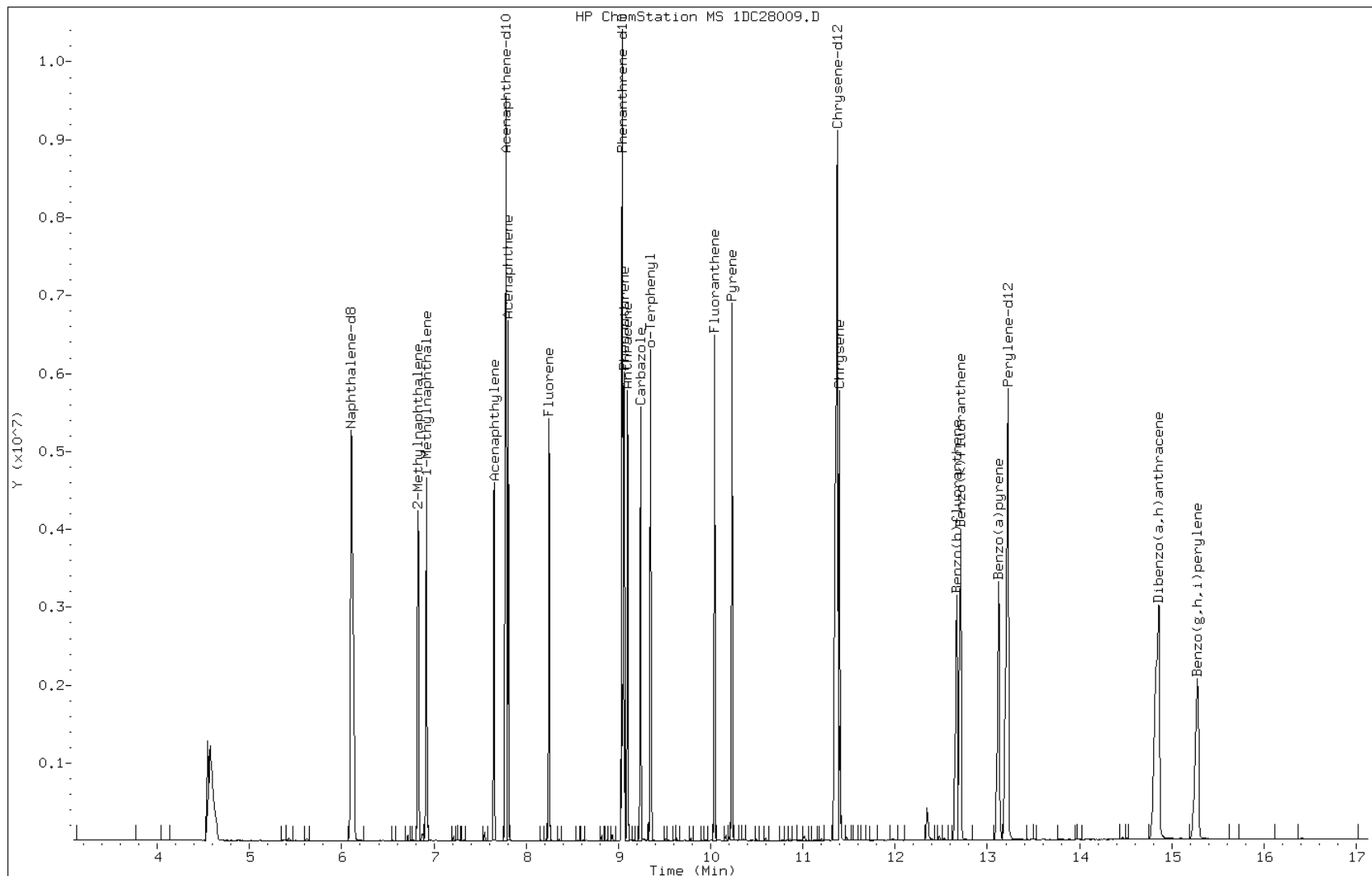
Date: 28-MAR-2013 14:57

Client ID:

Instrument: BSMSD.i

Sample Info: CCVIS-1512372

Operator: SCC

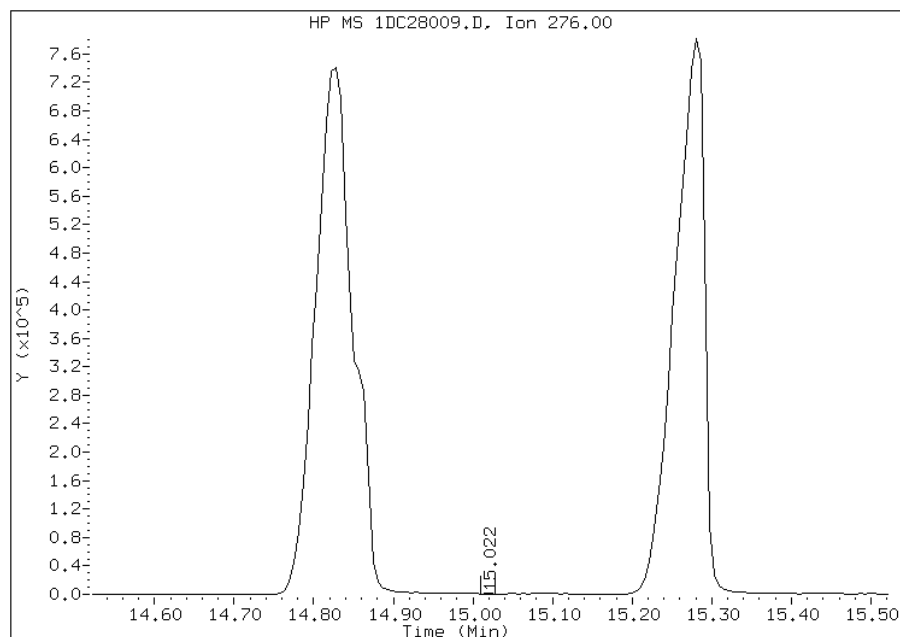


# Manual Integration Report

Data File: 1DC28009.D  
Inj. Date and Time: 28-MAR-2013 14:57  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

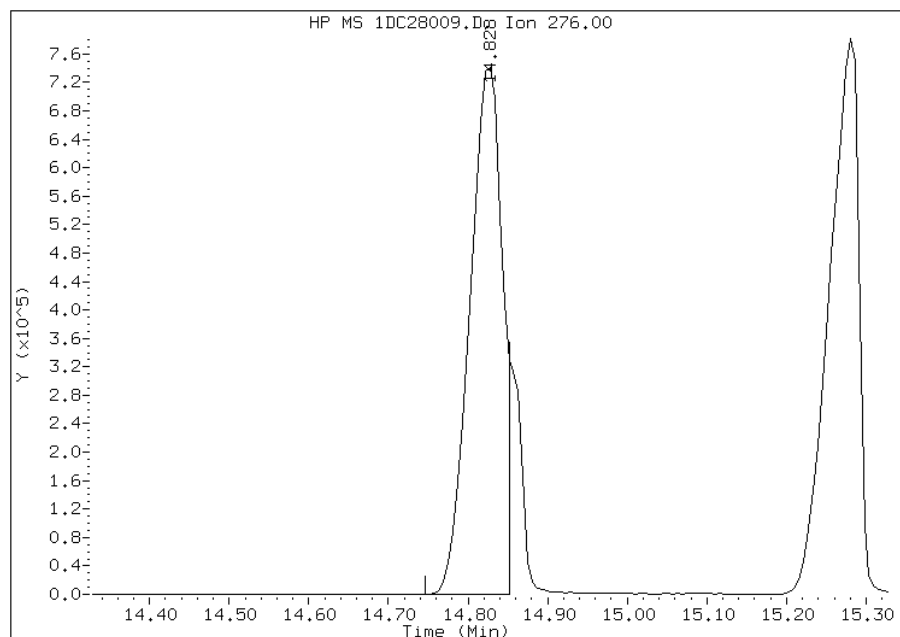
## Processing Integration Results

RT: 15.02  
Response: 528  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 14.83  
Response: 2114905  
Amount: 19  
Conc: 19



Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 15:22  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 22-FEB-2013 11:41  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : DFTPP-1490607  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\c-dftpp198.m  
 Meth Date : 04-Feb-2013 16:33 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				
7.404	7.469	-0.065	198	73440			50.00-	0.00	100.00
7.404	7.469	-0.065	51	31096			10.00-	80.00	42.34
7.404	7.469	-0.065	68	471			0.00-	2.00	1.08
7.404	7.469	-0.065	69	43512			0.00-	0.00	59.25
7.404	7.469	-0.065	70	192			0.00-	2.00	0.44
7.404	7.469	-0.065	127	39368			10.00-	80.00	53.61
7.404	7.469	-0.065	197	733			0.00-	2.00	1.00
7.404	7.469	-0.065	442	38240			50.00-	0.00	52.07
7.404	7.469	-0.065	199	6330			5.00-	9.00	8.62
7.404	7.469	-0.065	275	14104			10.00-	60.00	19.20
7.404	7.469	-0.065	365	1462			1.00-	0.00	1.99
7.404	7.469	-0.065	441	5496			0.01-	99.99	86.06
7.404	7.469	-0.065	443	6386			15.00-	24.00	16.70



Data File: 1CB22002.D

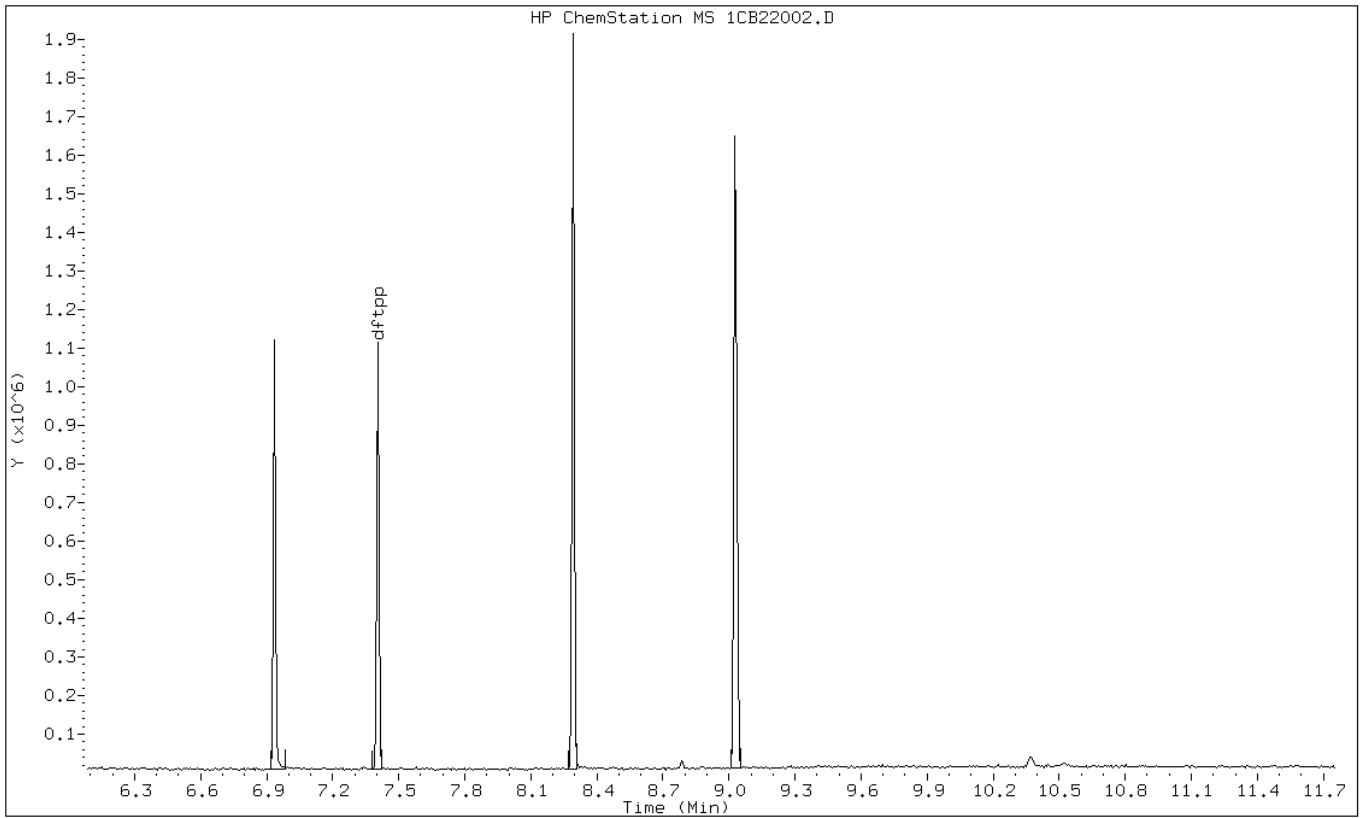
Date: 22-FEB-2013 11:41

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

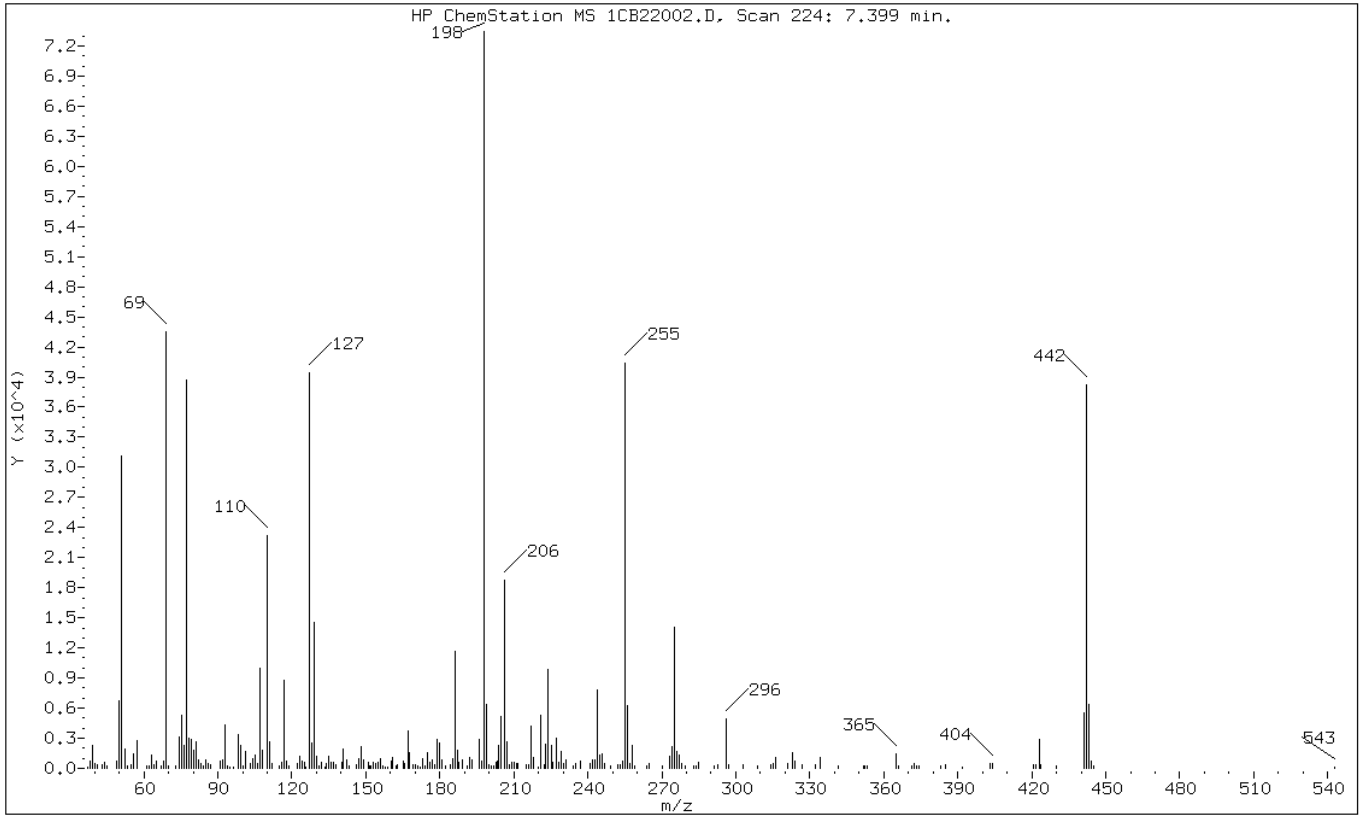
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

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	42.34
68	Less than 2.00% of mass 69	0.64 ( 1.08)
69	Mass 69 relative abundance	59.25
70	Less than 2.00% of mass 69	0.26 ( 0.44)
127	10.00 - 80.00% of mass 198	53.61
197	Less than 2.00% of mass 198	1.00
442	Greater than 50.00% of mass 198	52.07
199	5.00 - 9.00% of mass 198	8.62
275	10.00 - 60.00% of mass 198	19.20
365	Greater than 1.00% of mass 198	1.99
441	Present, but less than mass 443	7.48
443	15.00 - 24.00% of mass 442	8.70 ( 16.70)

Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213\_pahIC.b\1CB22002.D

Spectrum: HP ChemStation MS 1CB22002.D, Scan 224: 7.399 min.

Location of Maximum: 198.00

Number of points: 238

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.20	176	115.10	214	181.00	901	256.00	6303
38.10	755	116.00	605	182.10	220	256.90	429
39.10	2229	117.00	8730	184.00	307	257.90	2280
40.10	531	117.90	749	185.10	1015	258.90	258
41.10	318	119.00	225	186.10	11683	263.90	210
42.90	335	122.00	424	187.10	1756	265.00	509
44.00	648	123.00	1147	187.90	552	270.00	205
45.20	211	124.10	749	188.90	869	273.00	1169
49.10	738	125.10	635	191.00	237	274.00	2122
50.10	6757	125.80	170	192.00	1104	275.00	14104
51.10	31096	127.10	39368	193.10	865	275.90	1652
52.10	1930	128.10	2564	196.00	2872	277.00	1264
53.20	277	129.00	14531	196.90	733	277.90	505
55.00	369	129.80	1177	198.00	73440	279.70	194
56.00	1418	131.00	276	199.00	6330	283.00	190
57.00	2762	132.10	570	199.90	373	283.80	183
61.00	226	133.20	171	201.00	298	285.00	556
62.00	292	134.10	490	201.60	269	291.10	200
63.20	1348	135.10	1144	202.90	583	292.90	373
64.00	333	136.10	602	203.30	687	296.00	4941
65.10	737	137.00	557	204.00	2340	297.00	339
66.90	287	137.80	323	205.00	5123	302.90	397
67.80	471	140.10	644	206.10	18696	308.90	282
68.20	663	141.00	1972	207.10	2615	314.00	365
69.10	43512	142.00	851	208.00	418	315.10	502
70.00	192	143.10	211	209.00	555	316.10	1036
73.10	186	146.10	337	210.30	624	321.00	472
74.10	3155	147.00	919	210.90	494	323.00	1518
75.10	5232	148.00	2159	211.60	459	324.00	680
76.10	2236	149.00	790	214.90	324	327.10	397
77.10	38720	151.00	613	215.80	325	332.10	308
78.10	3056	151.70	298	217.00	4236	334.20	1026
79.10	2911	152.20	189	218.00	1088	341.30	184
80.00	1751	153.00	575	220.00	170	351.80	221
81.10	2627	154.10	436	221.10	5285	352.40	258
82.00	869	155.10	587	222.20	336	353.20	226
83.10	502	156.00	912	222.80	2398	364.90	1462
83.90	288	156.80	189	224.00	9837	365.90	266
85.00	785	158.00	151	225.10	2230	371.10	209
86.10	533	158.90	165	226.00	626	372.10	462

87.10	324	160.10	719	227.00	3030	373.10	210
91.10	726	160.90	1140	228.00	610	374.50	233
91.90	792	162.10	280	229.00	1664	383.20	274
93.10	4314	162.70	420	230.00	453	384.80	322
94.00	297	165.00	758	231.00	869	391.80	159
95.00	178	165.90	506	234.00	203	402.90	522
96.10	155	167.00	3698	234.90	491	404.10	524
98.10	3307	167.80	1598	236.90	687	420.90	334
99.10	2331	169.10	332	240.80	432	421.80	348
100.00	203	170.20	321	242.00	793	423.00	2839
101.00	1667	171.10	292	242.90	893	423.80	381
103.00	538	171.80	156	244.00	7817	430.10	181
104.10	935	173.20	904	245.00	1351	441.00	5496
105.10	1280	174.10	287	246.00	1390	442.00	38240
106.20	492	175.00	1609	246.80	435	443.10	6386
107.00	9992	176.00	544	249.00	291	444.00	706
108.00	1788	177.10	810	252.10	410	444.90	181
110.00	23216	177.80	349	252.90	317	542.80	156
111.10	2593	179.10	2922	253.90	662		
112.10	540	180.00	2572	255.00	40344		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 27-MAR-2013 10:18  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : DFTPP-1490607  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\c-dftpp198.m  
 Meth Date : 04-Feb-2013 16:33 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				
7.322	7.469	-0.147	198	111740			50.00-	0.00	100.00
7.322	7.469	-0.147	51	43188			10.00-	80.00	38.65
7.322	7.469	-0.147	68	1108			0.00-	2.00	1.99
7.322	7.469	-0.147	69	55704			0.00-	0.00	49.85
7.322	7.469	-0.147	70	455			0.00-	2.00	0.82
7.322	7.469	-0.147	127	53208			10.00-	80.00	47.62
7.322	7.469	-0.147	197	1183			0.00-	2.00	1.06
7.322	7.469	-0.147	442	61668			50.00-	0.00	55.19
7.322	7.469	-0.147	199	6945			5.00-	9.00	6.22
7.322	7.469	-0.147	275	20541			10.00-	60.00	18.38
7.322	7.469	-0.147	365	2993			1.00-	0.00	2.68
7.322	7.469	-0.147	441	9207			0.01-	99.99	68.06
7.322	7.469	-0.147	443	13528			15.00-	24.00	21.94

Data File: 1CC27002.D

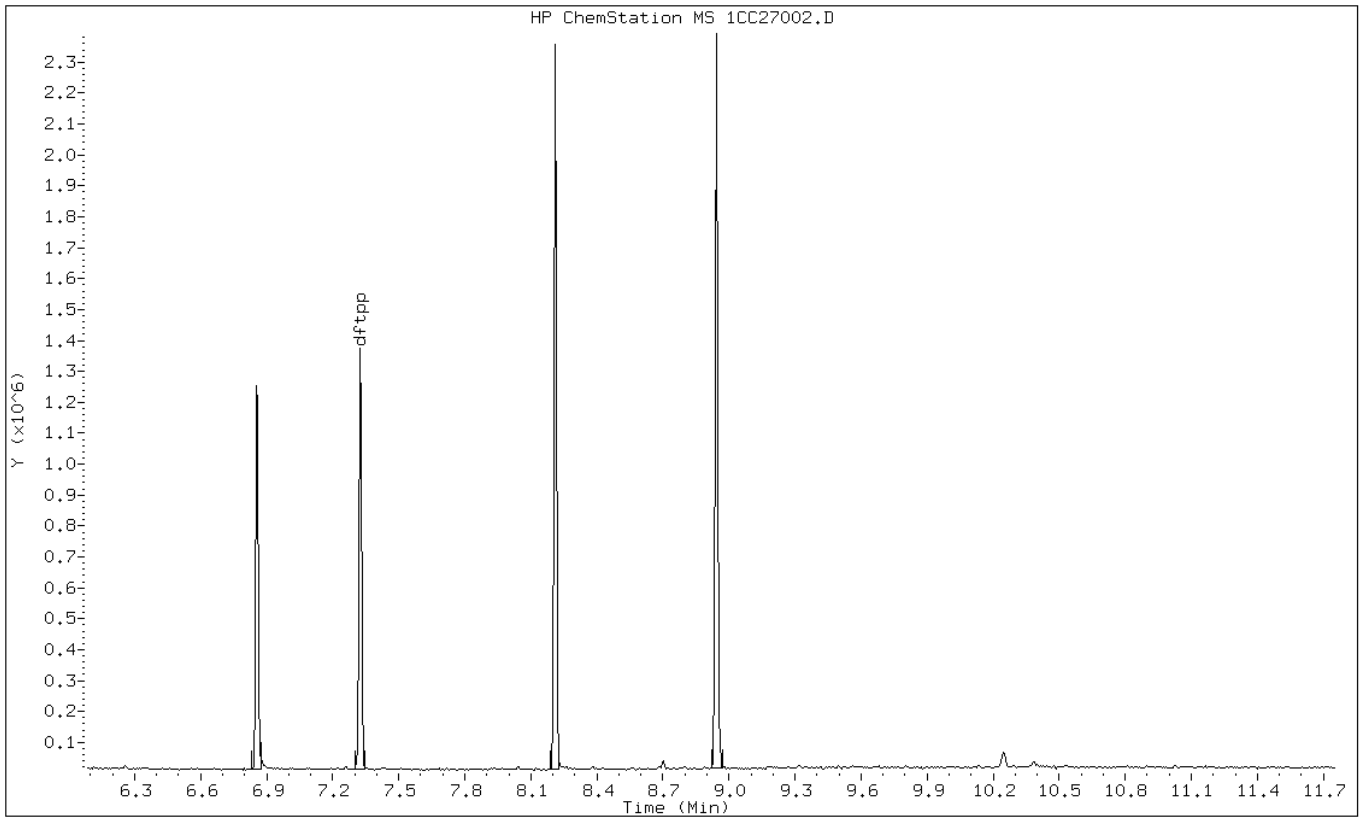
Date: 27-MAR-2013 10:18

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CC27002.D

Date: 27-MAR-2013 10:18

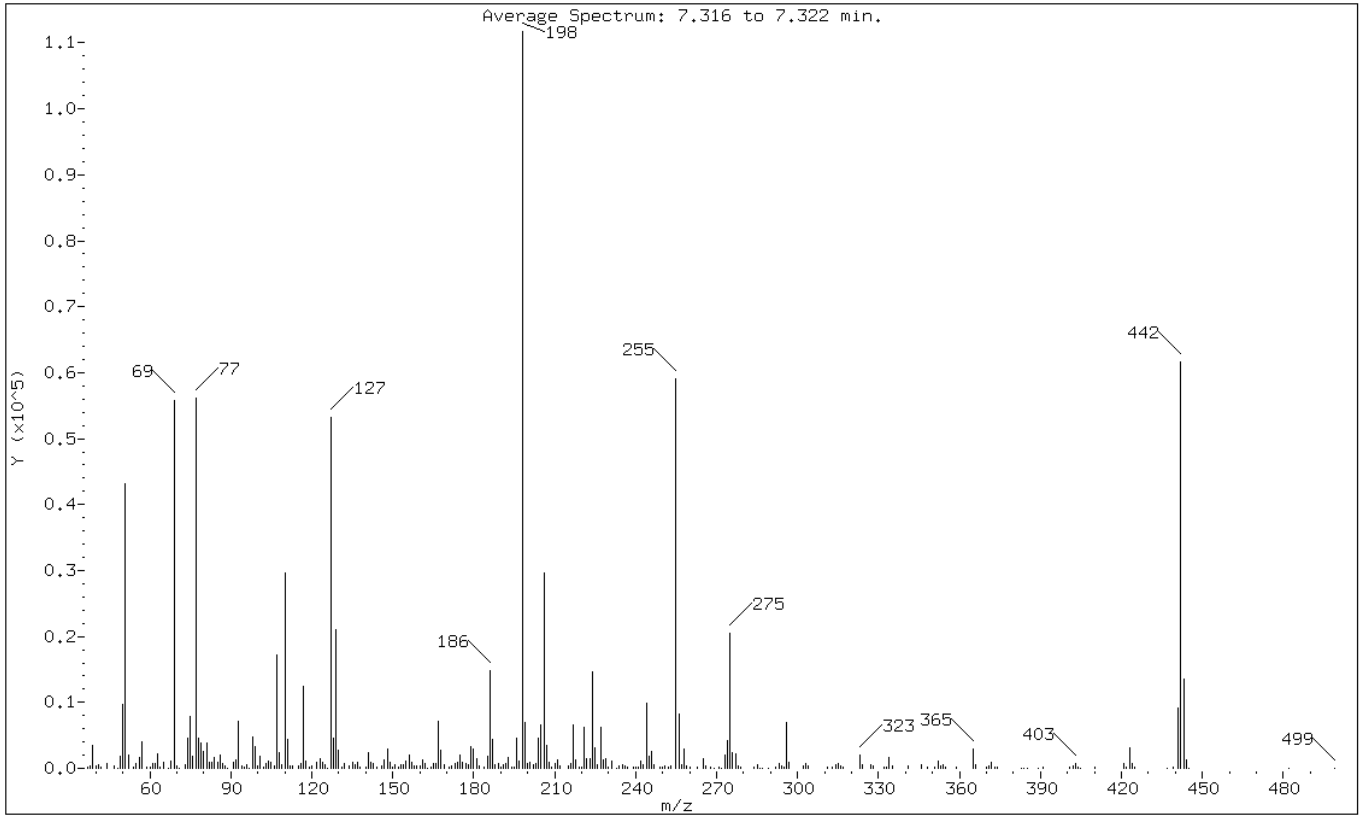
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

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	38.65
68	Less than 2.00% of mass 69	0.99 ( 1.99)
69	Mass 69 relative abundance	49.85
70	Less than 2.00% of mass 69	0.41 ( 0.82)
127	10.00 - 80.00% of mass 198	47.62
197	Less than 2.00% of mass 198	1.06
442	Greater than 50.00% of mass 198	55.19
199	5.00 - 9.00% of mass 198	6.22
275	10.00 - 60.00% of mass 198	18.38
365	Greater than 1.00% of mass 198	2.68
441	Present, but less than mass 443	8.24
443	15.00 - 24.00% of mass 442	12.11 ( 21.94)

Data File: 1CC27002.D

Date: 27-MAR-2013 10:18

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27002.D

Spectrum: Average Spectrum: 7.316 to 7.322 min.

Location of Maximum: 198.00

Number of points: 286

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	110	118.00	1074	196.00	4498	279.00	128
38.00	331	119.00	105	197.00	1183	284.00	166
39.00	3391	120.00	317	198.00	111736	285.00	502
40.00	309	122.00	857	199.00	6945	286.00	85
41.00	524	123.00	1424	200.00	721	287.00	85
42.00	189	124.00	875	201.00	921	289.00	91
44.00	815	125.00	520	202.00	513	292.00	200
47.00	287	126.00	89	203.00	673	293.00	656
48.00	83	127.00	53208	204.00	4538	294.00	330
49.00	1900	128.00	4497	205.00	6576	295.00	263
50.00	9727	129.00	21056	206.00	29576	296.00	7021
51.00	43184	130.00	2658	207.00	3429	297.00	839
52.00	2012	131.00	214	208.00	897	302.00	316
54.00	118	132.00	658	209.00	188	303.00	678
55.00	686	134.00	446	210.00	644	304.00	275
56.00	1674	135.00	949	211.00	1222	311.00	136
57.00	3990	136.00	489	212.00	344	313.00	120
59.00	200	137.00	972	215.00	302	314.00	575
60.00	102	138.00	183	216.00	708	315.00	710
61.00	688	140.00	166	217.00	6495	316.00	451
62.00	643	141.00	2456	218.00	1219	317.00	241
63.00	2108	142.00	826	219.00	209	323.00	2034
64.00	198	143.00	688	220.00	203	324.00	622
65.00	966	144.00	107	221.00	6220	327.00	594
67.00	85	146.00	409	222.00	1372	328.00	314
68.00	1108	147.00	1369	223.00	1554	332.00	256
69.00	55704	148.00	2888	224.00	14710	333.00	127
70.00	455	149.00	863	225.00	3045	334.00	1727
71.00	86	150.00	204	226.00	550	335.00	353
73.00	563	151.00	582	227.00	6149	341.00	409
74.00	4574	152.00	137	228.00	1321	346.00	635
75.00	7776	153.00	604	229.00	1434	348.00	124
76.00	1808	154.00	530	230.00	121	351.00	204
77.00	56120	155.00	1183	231.00	1154	352.00	1050
78.00	4636	156.00	1982	233.00	80	353.00	393
79.00	3764	157.00	960	234.00	360	354.00	628
80.00	2509	158.00	367	235.00	584	355.00	186
81.00	3783	159.00	393	236.00	304	359.00	231
82.00	859	160.00	416	237.00	247	365.00	2993
83.00	944	161.00	1195	239.00	158	366.00	522



84.00	1643	162.00	709	240.00	113	370.00	103
85.00	870	163.00	87	241.00	244	371.00	320
86.00	2033	164.00	228	242.00	1022	372.00	962
87.00	775	165.00	812	243.00	614	373.00	203
88.00	439	166.00	759	244.00	9836	374.00	183
89.00	75	167.00	7152	245.00	1917	383.00	80
91.00	935	168.00	2718	246.00	2545	384.00	82
92.00	1197	169.00	480	247.00	639	385.00	84
93.00	7053	171.00	167	249.00	238	389.00	82
94.00	371	172.00	421	250.00	128	391.00	217
95.00	124	173.00	723	251.00	349	401.00	212
96.00	551	174.00	828	252.00	113	402.00	406
97.00	89	175.00	2017	253.00	373	403.00	666
98.00	4715	176.00	960	255.00	59088	404.00	241
99.00	3308	177.00	807	256.00	8154	405.00	86
100.00	286	178.00	485	257.00	616	410.00	110
101.00	1852	179.00	3326	258.00	3007	421.00	665
102.00	207	180.00	2968	259.00	453	422.00	202
103.00	645	181.00	1541	260.00	126	423.00	3022
104.00	1173	182.00	302	263.00	166	424.00	648
105.00	938	184.00	199	265.00	1416	425.00	235
106.00	416	185.00	1914	266.00	311	437.00	81
107.00	17128	186.00	14888	268.00	116	439.00	98
108.00	2326	187.00	4450	269.00	83	441.00	9207
109.00	491	188.00	490	271.00	106	442.00	61664
110.00	29592	189.00	750	272.00	84	443.00	13528
111.00	4467	190.00	193	273.00	2008	444.00	1364
112.00	401	191.00	634	274.00	4160	445.00	85
113.00	284	192.00	814	275.00	20536	482.00	77
115.00	320	193.00	1721	276.00	2395	499.00	85
116.00	747	194.00	178	277.00	2145		
117.00	12356	195.00	132	278.00	447		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 22-FEB-2013 11:57  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : DFTPP-1490607  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\d-dftpp198.m  
 Meth Date : 10-Feb-2013 14:41 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				
8.477	8.532	-0.055	198	100672			50.00-	0.00	100.00
8.477	8.532	-0.055	51	47200			10.00-	80.00	46.88
8.477	8.532	-0.055	68	0	0.0	0.0	0.00-	2.00	0.00
8.477	8.532	-0.055	69	46864			0.00-	0.00	46.55
8.477	8.532	-0.055	70	0	0.0	0.0	0.00-	2.00	0.00
8.477	8.532	-0.055	127	51248			10.00-	80.00	50.91
8.477	8.532	-0.055	197	0	0.0	0.0	0.00-	2.00	0.00
8.477	8.532	-0.055	442	64976			50.00-	0.00	64.54
8.477	8.532	-0.055	199	7983			5.00-	9.00	7.93
8.477	8.532	-0.055	275	25312			10.00-	60.00	25.14
8.477	8.532	-0.055	365	2913			1.00-	0.00	2.89
8.477	8.532	-0.055	441	10444			0.01-	99.99	78.40
8.477	8.532	-0.055	443	13322			15.00-	24.00	20.50

Data File: 1DB22002.D

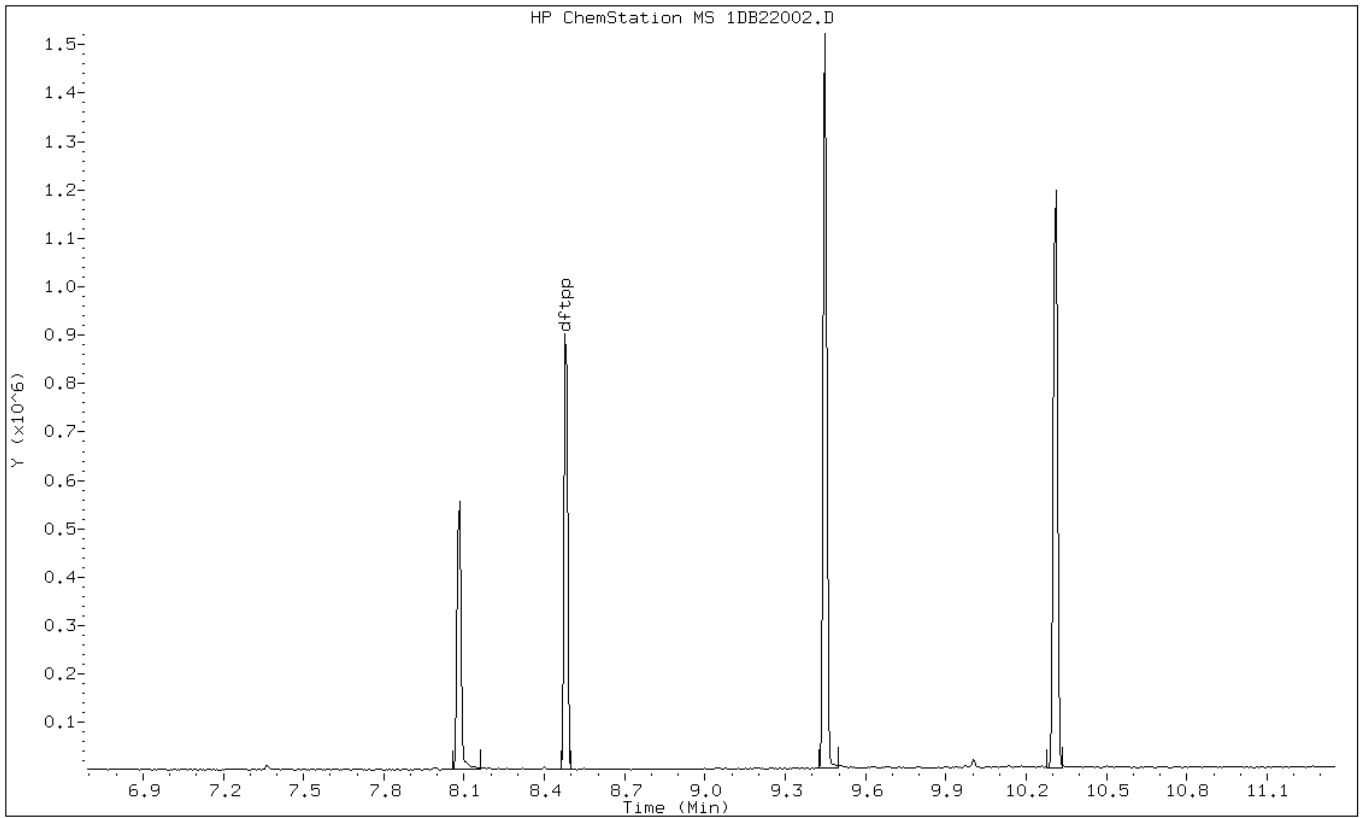
Date: 22-FEB-2013 11:57

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1DB22002.D

Date: 22-FEB-2013 11:57

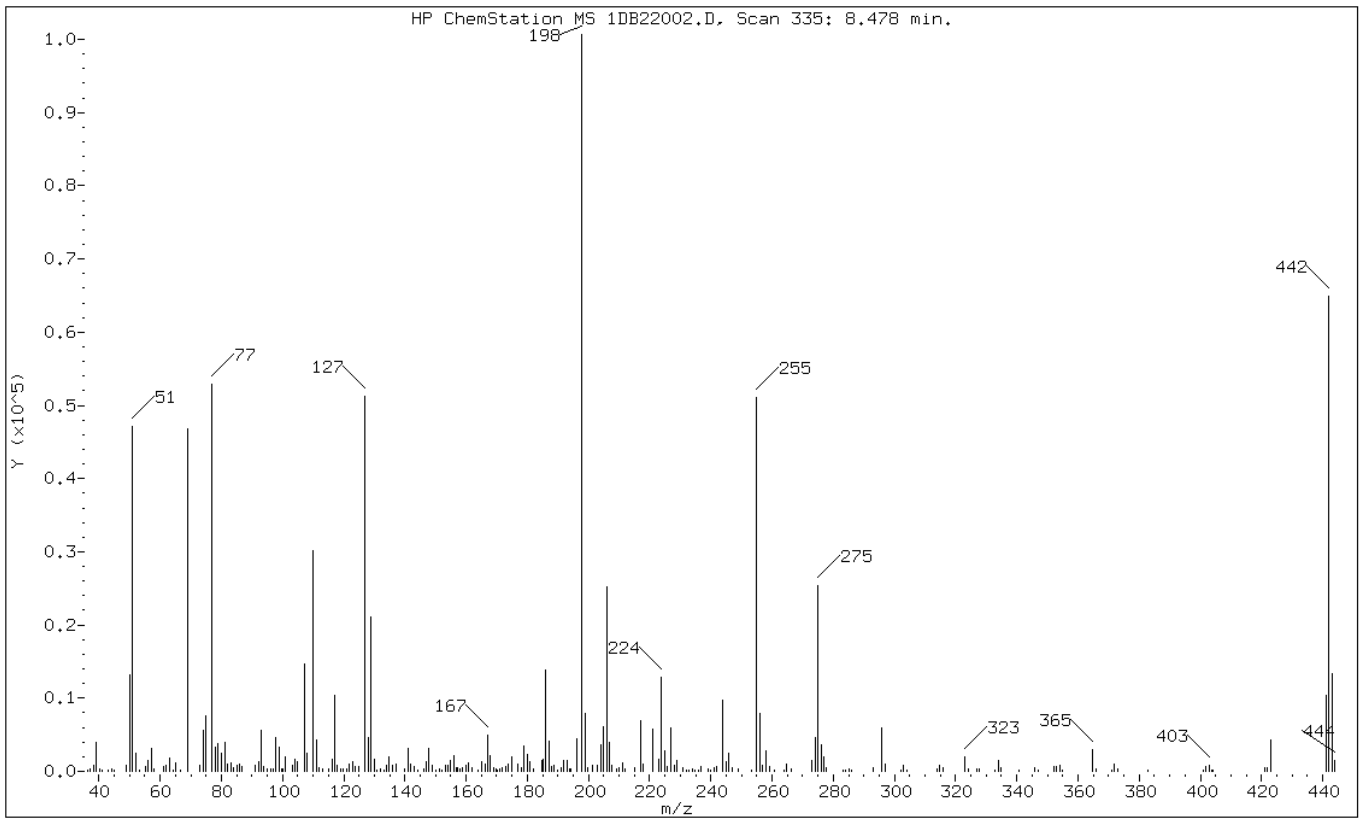
Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

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	46.88
68	Less than 2.00% of mass 69	0.00 ( 0.00)
69	Mass 69 relative abundance	46.55
70	Less than 2.00% of mass 69	0.00 ( 0.00)
127	10.00 - 80.00% of mass 198	50.91
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	64.54
199	5.00 - 9.00% of mass 198	7.93
275	10.00 - 60.00% of mass 198	25.14
365	Greater than 1.00% of mass 198	2.89
441	Present, but less than mass 443	10.37
443	15.00 - 24.00% of mass 442	13.23 ( 20.50)

Data File: 1DB22002.D

Date: 22-FEB-2013 11:57

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D022213\_pahIC.b\1DB22002.D

Spectrum: HP ChemStation MS 1DB22002.D, Scan 335: 8.478 min.

Location of Maximum: 197.90

Number of points: 241

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.30	197	115.20	371	178.90	3443	257.00	823
37.00	283	116.10	1643	179.90	2267	257.90	2744
38.10	840	116.90	10345	180.90	1276	259.10	649
39.00	4029	117.90	808	182.10	256	260.60	181
40.10	307	118.90	290	184.90	1563	263.80	188
41.10	246	119.90	325	185.10	1576	264.90	958
43.00	222	120.80	293	186.00	13856	266.30	296
44.00	324	121.90	933	187.00	4060	273.10	1415
45.00	187	123.10	1272	188.00	700	274.00	4623
48.90	792	123.90	596	188.90	880	274.90	25312
50.00	13120	124.90	657	190.00	174	276.00	3568
51.00	47200	127.00	51248	191.10	471	276.90	1899
52.00	2399	128.10	4539	191.80	1499	277.90	482
53.20	206	129.00	21144	193.10	1492	283.10	239
55.10	588	129.90	1625	193.80	298	284.00	158
56.00	1454	130.90	232	194.10	273	285.10	390
57.00	3139	132.00	372	196.00	4461	285.90	196
58.00	280	133.10	193	197.90	100672	292.90	454
61.00	695	134.00	786	198.90	7983	295.90	5925
62.00	830	134.90	1968	199.80	431	296.90	1054
63.00	1811	136.00	819	201.40	803	302.00	199
64.10	190	137.00	946	202.90	742	303.00	877
65.00	1083	139.80	261	204.00	3564	304.10	237
66.80	165	140.90	3120	204.90	6035	314.00	370
69.00	46864	141.90	907	206.00	25272	314.90	811
73.00	834	143.00	599	207.00	3977	316.10	563
74.00	5603	144.10	205	207.80	855	323.00	2019
75.00	7619	146.20	403	209.00	292	324.00	399
77.00	52952	147.10	1400	209.90	465	326.80	356
78.10	3264	147.90	3115	211.10	1207	327.90	285
79.00	3723	149.00	769	211.80	371	333.00	245
80.00	2540	150.00	204	215.00	516	334.00	1434
81.00	3932	151.20	331	216.90	6871	334.90	449
82.00	1066	151.90	245	217.80	933	340.80	236
83.00	1122	152.20	196	221.00	5742	345.80	434
84.00	448	153.10	780	222.90	1718	346.90	155
85.00	839	154.10	760	223.90	12894	352.00	582
85.90	920	154.90	1455	225.00	2847	352.90	693
86.10	903	156.00	2222	225.80	583	354.10	794
86.90	664	156.80	423	226.90	5900	355.00	242

90.90	879	157.30	413	227.90	895	364.90	2913
92.20	1301	158.00	406	229.00	1499	365.90	407
92.90	5556	158.90	453	230.90	530	370.90	239
93.90	654	159.90	786	231.90	178	371.90	1022
95.00	306	160.80	1173	233.00	190	373.00	407
96.00	333	161.90	523	234.00	288	382.90	223
96.80	249	163.80	175	234.80	220	401.00	178
97.90	4532	164.90	1380	235.80	168	401.90	599
99.00	3290	166.10	1007	236.80	623	403.00	796
99.90	302	167.00	4901	239.10	325	403.80	179
100.10	306	167.90	2117	240.00	221	404.00	178
101.00	1934	169.00	519	241.00	419	421.00	483
103.10	838	169.90	270	242.00	691	422.00	527
103.90	1680	170.30	232	244.00	9770	422.90	4204
104.90	1266	170.90	273	245.00	1289	441.00	10444
107.00	14642	171.80	412	245.90	2407	442.00	64976
107.90	2420	172.90	636	246.90	412	443.00	13322
110.00	30136	173.90	999	249.10	305	443.90	1486
111.00	4275	175.00	1902	253.20	215		
112.00	423	176.70	1047	254.90	51056		
112.90	308	177.90	412	255.90	7928		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 28-MAR-2013 12:00  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : DFTPP-1490607  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\d-dftpp198.m  
 Meth Date : 08-Jan-2013 12:23 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				
8.394	8.532	-0.138	198	118720		50.00-	0.00	100.00	
8.394	8.532	-0.138	51	44740		10.00-	80.00	37.69	
8.394	8.532	-0.138	68	0	0.0	0.0	0.00-	2.00	0.00
8.394	8.532	-0.138	69	49056		0.00-	0.00	41.32	
8.394	8.532	-0.138	70	0	0.0	0.0	0.00-	2.00	0.00
8.394	8.532	-0.138	127	54168		10.00-	80.00	45.63	
8.394	8.532	-0.138	197	0	0.0	0.0	0.00-	2.00	0.00
8.394	8.532	-0.138	442	115172		50.00-	0.00	97.01	
8.394	8.532	-0.138	199	7676		5.00-	9.00	6.47	
8.394	8.532	-0.138	275	34920		10.00-	60.00	29.41	
8.394	8.532	-0.138	365	4377		1.00-	0.00	3.69	
8.394	8.532	-0.138	441	9468		0.01-	99.99	40.88	
8.394	8.532	-0.138	443	23160		15.00-	24.00	20.11	

Data File: 1DC28002.D

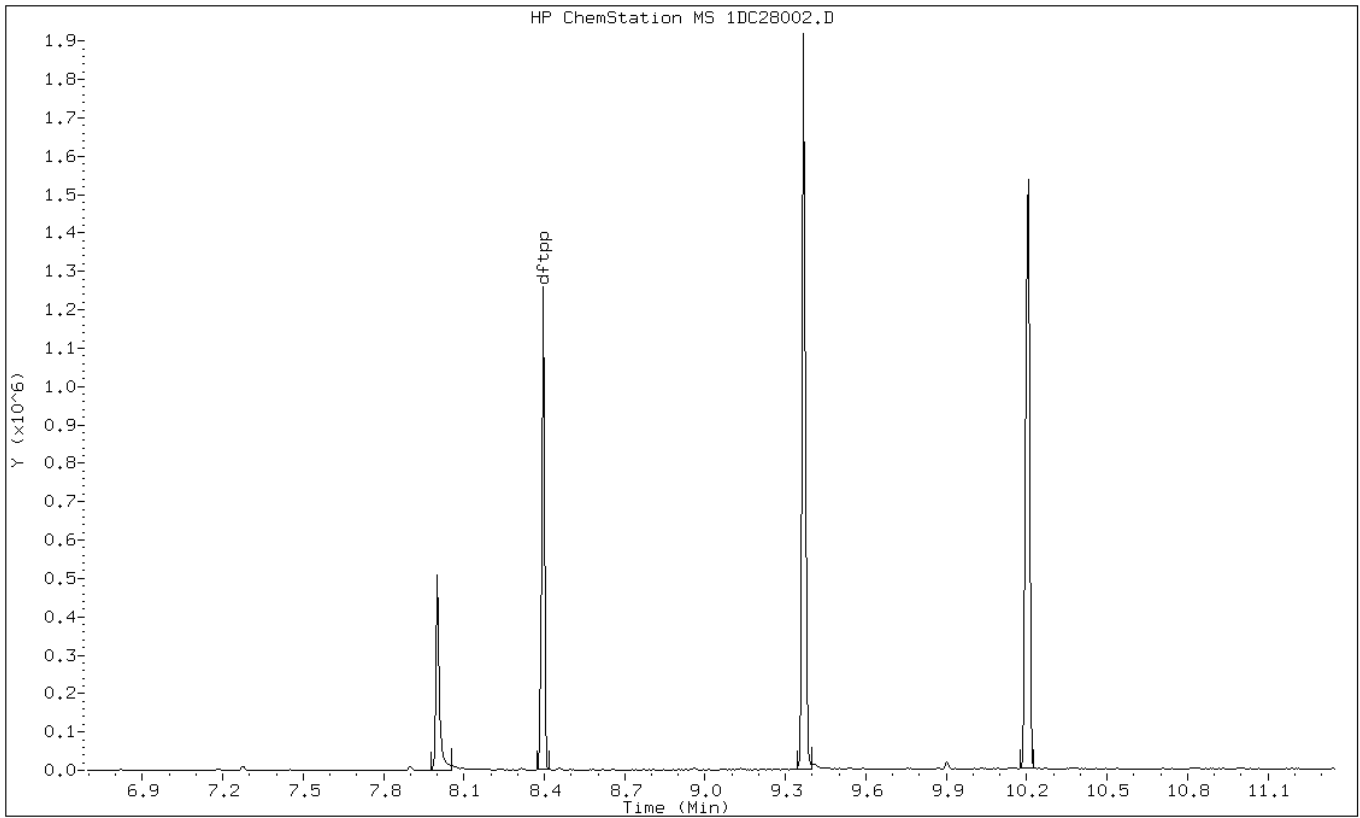
Date: 28-MAR-2013 12:00

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC





Data File: 1DC28002.D

Date: 28-MAR-2013 12:00

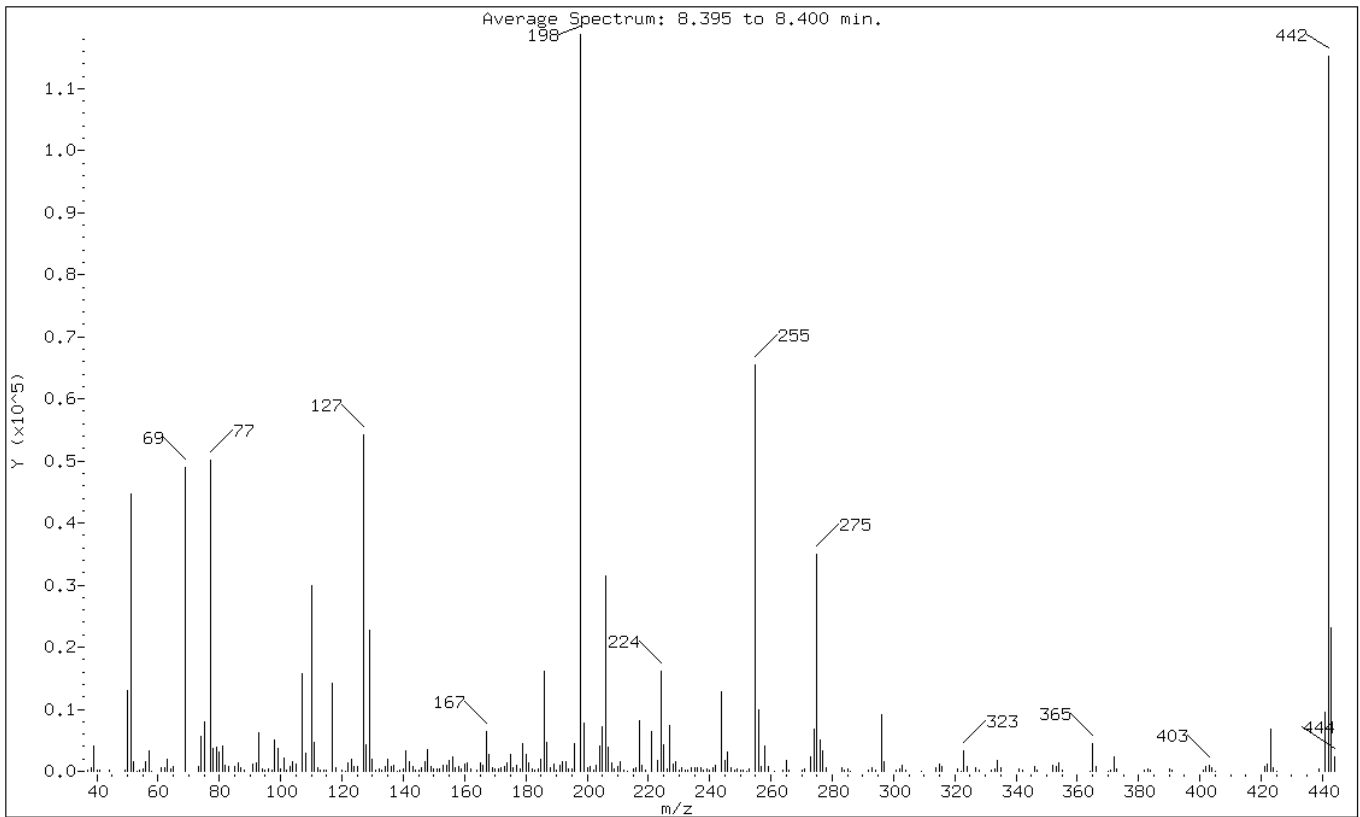
Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

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	37.69
68	Less than 2.00% of mass 69	0.00 ( 0.00)
69	Mass 69 relative abundance	41.32
70	Less than 2.00% of mass 69	0.00 ( 0.00)
127	10.00 - 80.00% of mass 198	45.63
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	97.01
199	5.00 - 9.00% of mass 198	6.47
275	10.00 - 60.00% of mass 198	29.41
365	Greater than 1.00% of mass 198	3.69
441	Present, but less than mass 443	7.98
443	15.00 - 24.00% of mass 442	19.51 ( 20.11)

Data File: 1DC28002.D

Date: 28-MAR-2013 12:00

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsrv\chem\SM\BSMSD.i\1D032813.b\1DC28002.D

Spectrum: Average Spectrum: 8.395 to 8.400 min.

Location of Maximum: 198.00

Number of points: 267

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	217	127.00	54168	195.00	316	275.00	34920
38.00	652	128.00	4364	196.00	4387	276.00	4991
39.00	4036	129.00	22792	198.00	118720	277.00	3210
40.00	249	130.00	1984	199.00	7676	278.00	511
41.00	189	131.00	212	200.00	678	283.00	505
44.00	193	132.00	329	201.00	798	284.00	178
49.00	169	133.00	286	202.00	247	285.00	401
50.00	13051	134.00	770	203.00	936	286.00	80
51.00	44736	135.00	1898	204.00	4038	292.00	115
52.00	1619	136.00	800	205.00	7153	293.00	602
53.00	82	137.00	940	206.00	31432	294.00	230
54.00	116	138.00	95	207.00	3913	296.00	9139
55.00	397	139.00	129	208.00	1327	297.00	1561
56.00	1555	140.00	368	209.00	413	301.00	106
57.00	3358	141.00	3209	210.00	802	302.00	396
58.00	89	142.00	1638	211.00	1464	303.00	1008
61.00	644	143.00	727	212.00	168	304.00	248
62.00	598	144.00	244	213.00	87	309.00	91
63.00	1870	145.00	285	215.00	456	314.00	617
64.00	327	146.00	622	216.00	676	315.00	1178
65.00	835	147.00	1555	217.00	8160	316.00	693
69.00	49056	148.00	3481	218.00	929	321.00	320
73.00	799	149.00	850	219.00	116	322.00	89
74.00	5589	150.00	445	221.00	6440	323.00	3339
75.00	7943	151.00	431	223.00	1800	324.00	775
77.00	50048	152.00	372	224.00	16072	327.00	530
78.00	3785	153.00	1000	225.00	4300	328.00	180
79.00	3961	154.00	936	226.00	410	332.00	272
80.00	3056	155.00	1774	227.00	7307	333.00	408
81.00	4001	156.00	2398	228.00	1215	334.00	1761
82.00	1061	157.00	626	229.00	1643	335.00	648
83.00	851	158.00	717	230.00	262	341.00	396
85.00	755	159.00	303	231.00	578	342.00	116
86.00	1446	160.00	1071	232.00	167	346.00	746
87.00	570	161.00	1416	233.00	129	347.00	179
88.00	264	162.00	464	234.00	565	352.00	1061
91.00	1176	164.00	196	235.00	634	353.00	757
92.00	1383	165.00	1422	236.00	490	354.00	1368
93.00	6260	166.00	1001	237.00	528	355.00	224
94.00	409	167.00	6326	238.00	99	364.00	95

95.00	102	168.00	2661	239.00	410	365.00	4377
96.00	420	169.00	594	240.00	174	366.00	788
97.00	166	170.00	417	241.00	587	370.00	97
98.00	5088	171.00	341	242.00	945	371.00	124
99.00	3660	172.00	551	244.00	12737	372.00	2344
100.00	365	173.00	743	245.00	1841	373.00	302
101.00	2082	174.00	1294	246.00	3058	382.00	153
102.00	123	175.00	2643	247.00	585	383.00	385
103.00	834	176.00	679	248.00	223	384.00	203
104.00	1633	177.00	929	249.00	336	390.00	377
105.00	1235	178.00	349	250.00	166	391.00	185
107.00	15688	179.00	4452	251.00	103	401.00	184
108.00	2877	180.00	2786	252.00	80	402.00	800
110.00	29968	181.00	1303	253.00	326	403.00	989
111.00	4724	182.00	465	255.00	65424	404.00	488
112.00	584	183.00	181	256.00	9977	405.00	86
113.00	263	184.00	295	257.00	710	421.00	728
114.00	107	185.00	1993	258.00	4066	422.00	1154
115.00	127	186.00	16075	259.00	814	423.00	6892
117.00	14220	187.00	4686	261.00	91	424.00	679
118.00	528	188.00	583	264.00	275	425.00	78
120.00	261	189.00	1083	265.00	1775	439.00	335
121.00	82	190.00	137	266.00	201	441.00	9468
122.00	1266	191.00	1001	270.00	104	442.00	115168
123.00	1908	192.00	1500	271.00	436	443.00	23160
124.00	705	193.00	1628	273.00	2348	444.00	2266
125.00	810	194.00	385	274.00	6735		

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 660-135800/1-A  
 Matrix: Solid Lab File ID: 1CC27005.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07  
 Sample wt/vol: 15.02(g) Date Analyzed: 03/27/2013 11:26  
 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.: 135830 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	69		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27005.D  
 Lab Smp Id: mb 660-135800/1-a  
 Inj Date : 27-MAR-2013 11:26  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : mb 660-135800/1-a  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m  
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	15.020	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		3.727	3.727	(1.000)	733449	40.0000	
* 6 Acenaphthene-d10	164		4.821	4.815	(1.000)	569617	40.0000	
* 10 Phenanthrene-d10	188		5.774	5.762	(1.000)	1053797	40.0000	
\$ 14 o-Terphenyl	230		6.027	6.015	(1.044)	109413	6.87676	457.8403
* 18 Chrysene-d12	240		7.715	7.704	(1.000)	1355661	40.0000	
* 23 Perylene-d12	264		8.909	8.886	(1.000)	1428942	40.0000	(H)

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: 1CC27005.D

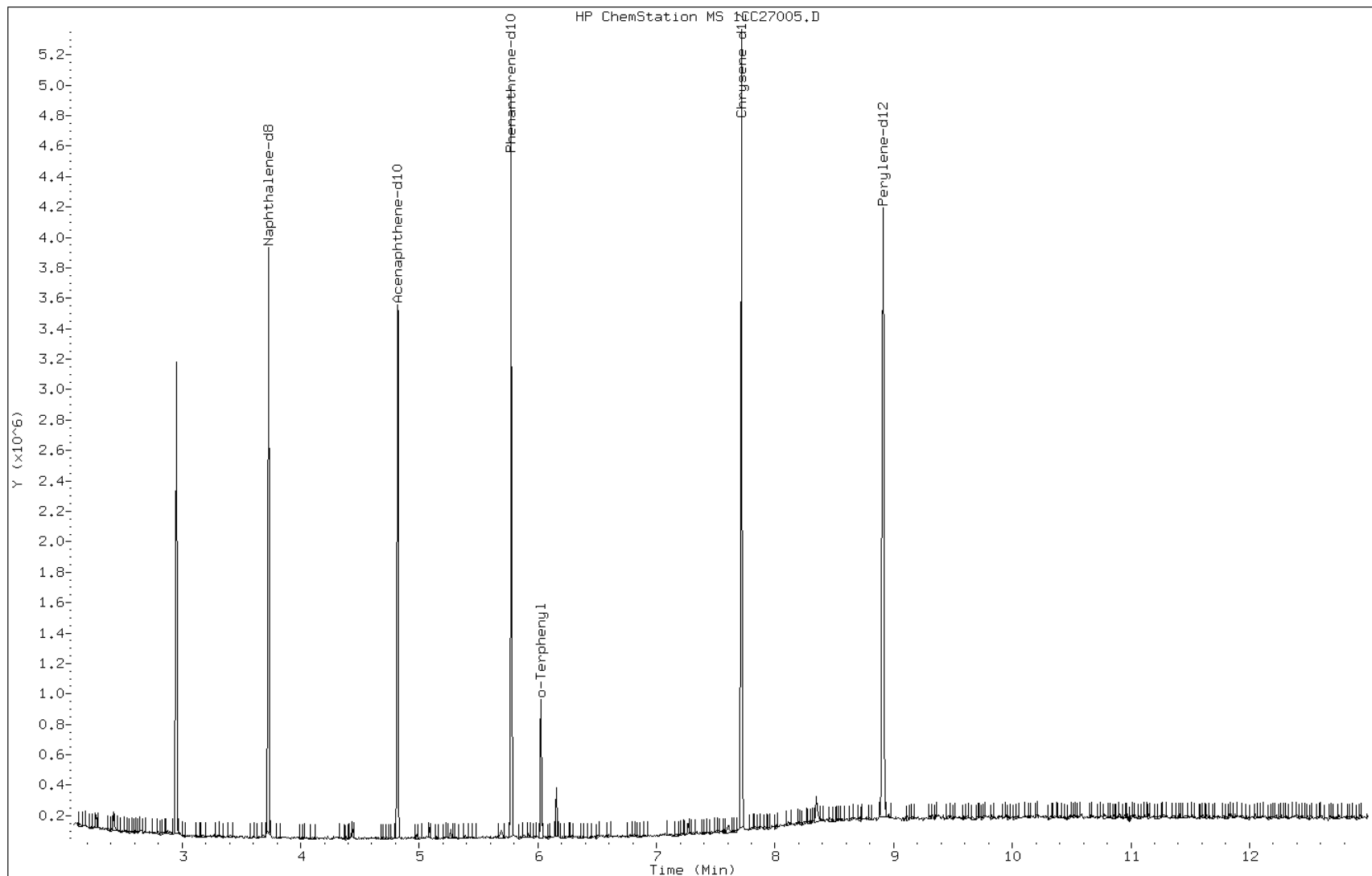
Date: 27-MAR-2013 11:26

Client ID:

Instrument: BSMC5973.i

Sample Info: mb 660-135800/1-a

Operator: SCC



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 660-135822/1-A  
 Matrix: Solid Lab File ID: 1DC28011.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 03/27/2013 11:19  
 Sample wt/vol: 15.15(g) Date Analyzed: 03/28/2013 15:42  
 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.: 136038 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	5.1
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	65		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28011.D  
 Lab Smp Id: MB 660-135822/1-A  
 Inj Date : 28-MAR-2013 15:42  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : MB 660-135822/1-A  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dFASTPAHi.m  
 Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 11 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	15.150	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 ( ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.102	6.102	(1.000)	3397993	40.0000	
* 6 Acenaphthene-d10	164		7.776	7.777	(1.000)	2207708	40.0000	
* 9 Phenanthrene-d10	188		9.040	9.040	(1.000)	3627662	40.0000	
\$ 13 o-Terphenyl	230		9.345	9.351	(1.034)	366541	6.53391	430
* 17 Chrysene-d12	240		11.366	11.373	(1.000)	3652900	40.0000	
* 22 Perylene-d12	264		13.217	13.223	(1.000)	3883149	40.0000	



Data File: 1DC28011.D

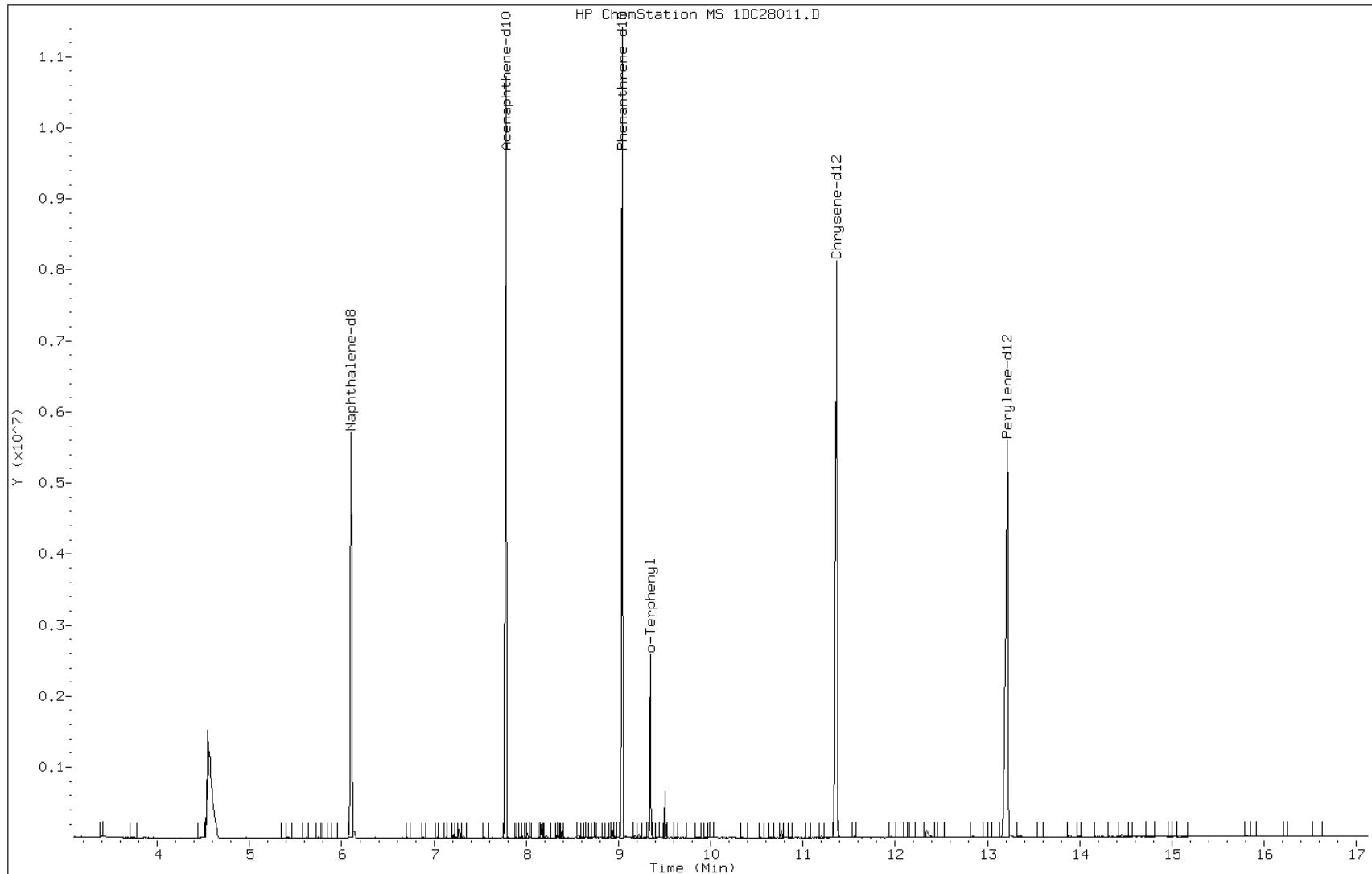
Date: 28-MAR-2013 15:42

Client ID:

Instrument: BSMSD.i

Sample Info: MB 660-135822/1-A

Operator: SCC



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 660-135800/2-A  
 Matrix: Solid Lab File ID: 1CC27006.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07  
 Sample wt/vol: 14.93(g) Date Analyzed: 03/27/2013 11:44  
 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.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	534		100	20
208-96-8	Acenaphthylene	518		40	5.0
120-12-7	Anthracene	533		8.4	4.2
56-55-3	Benzo[a]anthracene	502		8.0	3.9
50-32-8	Benzo[a]pyrene	483		10	5.2
205-99-2	Benzo[b]fluoranthene	554		12	6.1
191-24-2	Benzo[g,h,i]perylene	493		20	4.4
207-08-9	Benzo[k]fluoranthene	514		8.0	3.6
218-01-9	Chrysene	494		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	525		20	4.1
206-44-0	Fluoranthene	540		20	4.0
86-73-7	Fluorene	558		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	495		20	7.1
90-12-0	1-Methylnaphthalene	553		40	4.4
91-57-6	2-Methylnaphthalene	503		40	7.1
91-20-3	Naphthalene	505		40	4.4
85-01-8	Phenanthrene	503		8.0	3.9
129-00-0	Pyrene	517		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	73		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27006.D  
 Lab Smp Id: lcs 660-135800/2-a  
 Inj Date : 27-MAR-2013 11:44  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : lcs 660-135800/2-a  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m  
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	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		3.727	3.727	(1.000)	652625	40.0000	
* 6 Acenaphthene-d10	164		4.815	4.815	(1.000)	502253	40.0000	
* 10 Phenanthrene-d10	188		5.762	5.762	(1.000)	992616	40.0000	
\$ 14 o-Terphenyl	230		6.015	6.015	(1.044)	108704	7.25331	485.8212
* 18 Chrysene-d12	240		7.703	7.704	(1.000)	1311274	40.0000	
* 23 Perylene-d12	264		8.892	8.886	(1.000)	1340417	40.0000	
2 Naphthalene	128		3.739	3.739	(1.003)	128116	7.54054	505.0595
3 2-Methylnaphthalene	142		4.168	4.168	(1.118)	85194	7.51716	503.4935
4 1-Methylnaphthalene	142		4.227	4.227	(1.134)	85211	8.25536	552.9377
5 Acenaphthylene	152		4.727	4.727	(0.982)	156640	7.73559	518.1239
7 Acenaphthene	154		4.833	4.833	(1.004)	100340	7.97232	533.9797
9 Fluorene	166		5.157	5.157	(1.071)	132624	8.33204	558.0736
11 Phenanthrene	178		5.780	5.780	(1.003)	215750	7.51688	503.4748
12 Anthracene	178		5.815	5.815	(1.009)	223167	7.95025	532.5015

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.921	5.921	(1.028)	208607	8.36011	559.9536
15 Fluoranthene	202	6.615	6.615	(1.148)	253297	8.05851	539.7528
16 Pyrene	202	6.786	6.786	(0.881)	271762	7.71205	516.5474
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	283634	7.49444	501.9721
19 Chrysene	228	7.727	7.727	(1.003)	279367	7.37616	494.0493
20 Benzo(b)fluoranthene	252	8.545	8.539	(0.961)	289903	8.27583	554.3088
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.963)	275549	7.66789	513.5896
22 Benzo(a)pyrene	252	8.833	8.833	(0.993)	245352	7.21079	482.9731
24 Indeno(1,2,3-cd)pyrene	276	10.050	10.050	(1.130)	236438	7.38672	494.7567(M)
25 Dibenzo(a,h)anthracene	278	10.068	10.068	(1.132)	245341	7.83616	524.8597
26 Benzo(g,h,i)perylene	276	10.403	10.397	(1.170)	246420	7.35942	492.9283

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC27006.D

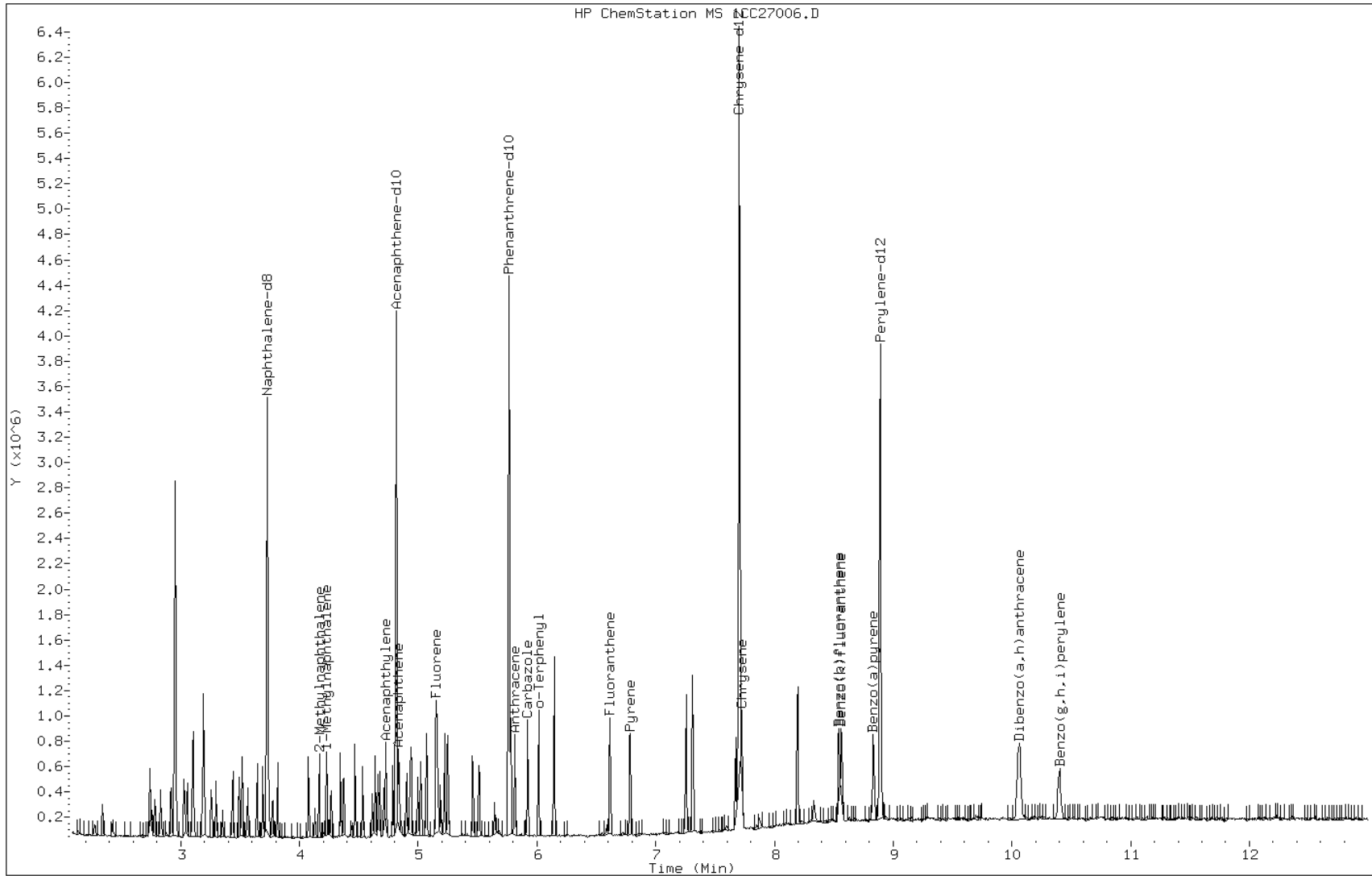
Date: 27-MAR-2013 11:44

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-135800/2-a

Operator: SCC

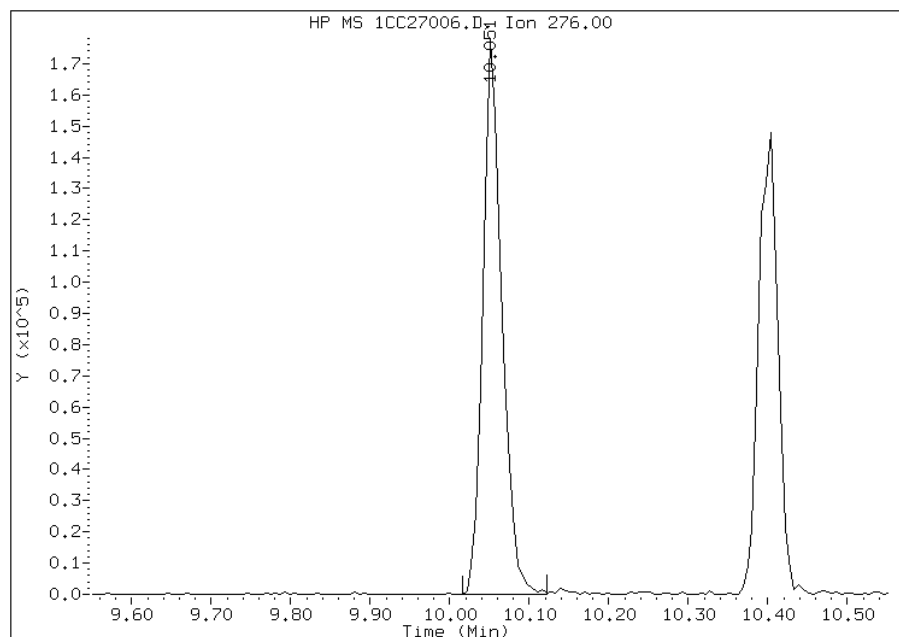


# Manual Integration Report

Data File: 1CC27006.D  
Inj. Date and Time: 27-MAR-2013 11:44  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/27/2013

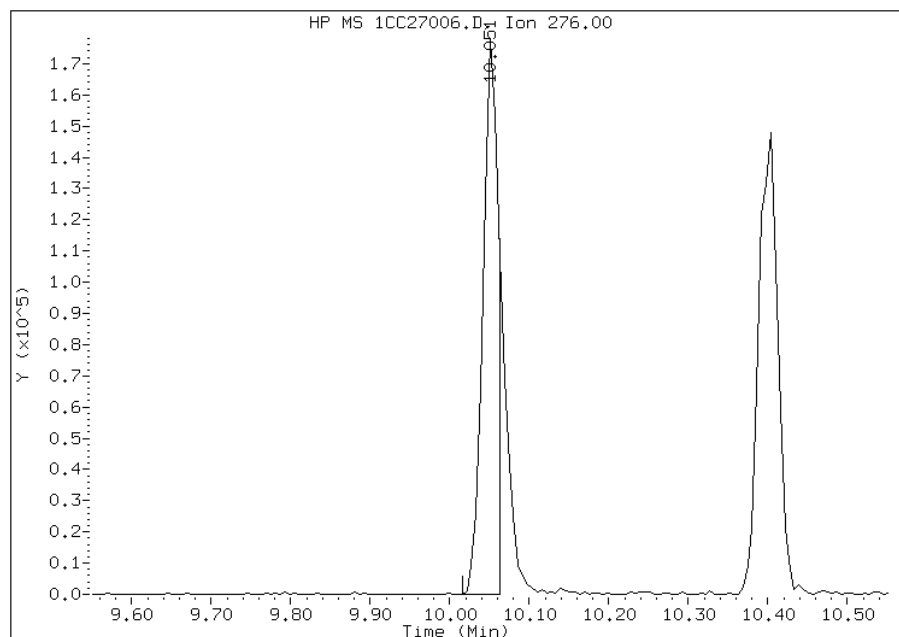
## Processing Integration Results

RT: 10.05  
Response: 292346  
Amount: 9  
Conc: 612



## Manual Integration Results

RT: 10.05  
Response: 236438  
Amount: 7  
Conc: 495



Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 12:18  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 660-135822/2-A  
 Matrix: Solid Lab File ID: 1DC28012.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 03/27/2013 11:19  
 Sample wt/vol: 14.93(g) Date Analyzed: 03/28/2013 16:05  
 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.: 136038 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	455		100	20
208-96-8	Acenaphthylene	472		40	5.0
120-12-7	Anthracene	464		8.4	4.2
56-55-3	Benzo[a]anthracene	520		8.0	3.9
50-32-8	Benzo[a]pyrene	459		10	5.2
205-99-2	Benzo[b]fluoranthene	503		12	6.1
191-24-2	Benzo[g,h,i]perylene	486		20	4.4
207-08-9	Benzo[k]fluoranthene	484		8.0	3.6
218-01-9	Chrysene	464		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	527		20	4.1
206-44-0	Fluoranthene	488		20	4.0
86-73-7	Fluorene	491		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	469		20	7.1
90-12-0	1-Methylnaphthalene	512		40	4.4
91-57-6	2-Methylnaphthalene	499		40	7.1
91-20-3	Naphthalene	470		40	4.4
85-01-8	Phenanthrene	461		8.0	3.9
129-00-0	Pyrene	464		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	70		30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28012.D  
 Lab Smp Id: LCS 660-135822/2-A  
 Inj Date : 28-MAR-2013 16:05  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : LCS 660-135822/2-A  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dFASTPAHi.m  
 Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 12 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	14.930	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	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN ( ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.101	6.102	(1.000)	3559975	40.0000		
* 6 Acenaphthene-d10	164		7.781	7.777	(1.000)	2302268	40.0000		
* 9 Phenanthrene-d10	188		9.039	9.040	(1.000)	3843730	40.0000		
\$ 13 o-Terphenyl	230		9.344	9.351	(1.034)	415472	6.98983	470	
* 17 Chrysene-d12	240		11.371	11.373	(1.000)	3972248	40.0000		
* 22 Perylene-d12	264		13.222	13.223	(1.000)	4089168	40.0000		
2 Naphthalene	128		6.119	6.126	(1.003)	668703	7.02185	470	
3 2-Methylnaphthalene	142		6.824	6.825	(1.118)	452308	7.45602	500	
4 1-Methylnaphthalene	142		6.918	6.919	(1.134)	434436	7.64755	510	
5 Acenaphthylene	152		7.646	7.653	(0.983)	715235	7.04656	470	
7 Acenaphthene	154		7.805	7.806	(1.003)	420804	6.79944	460	
8 Fluorene	166		8.246	8.247	(1.060)	530243	7.33307	490	
10 Phenanthrene	178		9.056	9.064	(1.002)	750419	6.87759	460	
11 Anthracene	178		9.097	9.099	(1.006)	755524	6.92076	460	



Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.233	9.240	(1.021)	542920	5.56321	370
14 Fluoranthene	202	10.038	10.045	(1.110)	828971	7.28028	490
15 Pyrene	202	10.226	10.233	(0.899)	852836	6.92150	460
16 Benzo(a)anthracene	228	11.342	11.349	(0.997)	844887	7.76898	520
18 Chrysene	228	11.389	11.396	(1.002)	777008	6.92061	460
19 Benzo(b)fluoranthene	252	12.658	12.671	(0.957)	790645	7.51175	500
20 Benzo(k)fluoranthene	252	12.693	12.712	(0.960)	796651	7.22882	480
21 Benzo(a)pyrene	252	13.110	13.124	(0.992)	713504	6.85022	460
23 Indeno(1,2,3-cd)pyrene	276	14.803	14.827	(1.120)	777532	6.99499	470(M)
24 Dibenzo(a,h)anthracene	278	14.832	14.863	(1.122)	807453	7.86571	530
25 Benzo(g,h,i)perylene	276	15.249	15.280	(1.153)	769468	7.26049	490

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DC28012.D

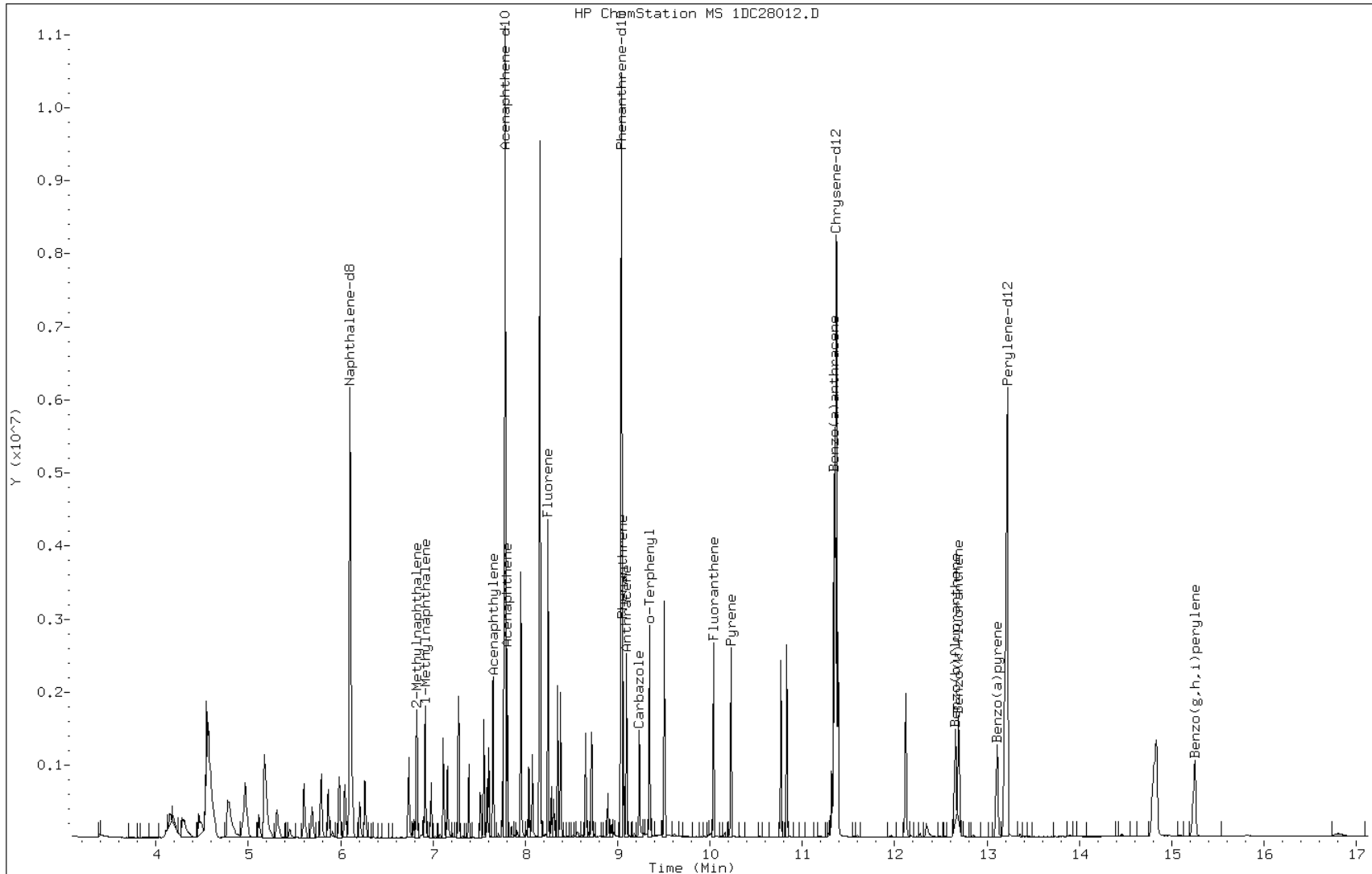
Date: 28-MAR-2013 16:05

Client ID:

Instrument: BSMSD.i

Sample Info: LCS 660-135822/2-A

Operator: SCC

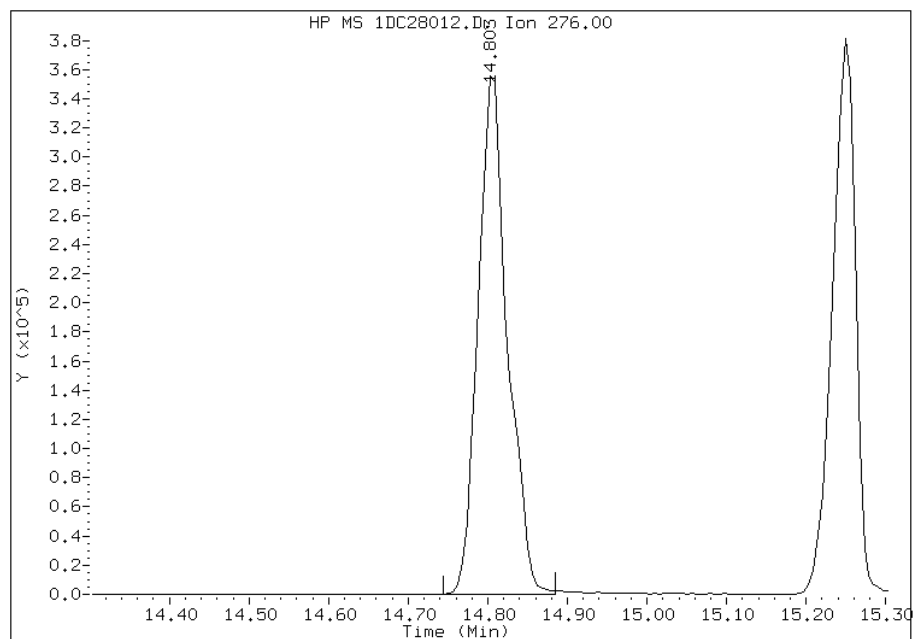


Manual Integration Report

Data File: 1DC28012.D  
Inj. Date and Time: 28-MAR-2013 16:05  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

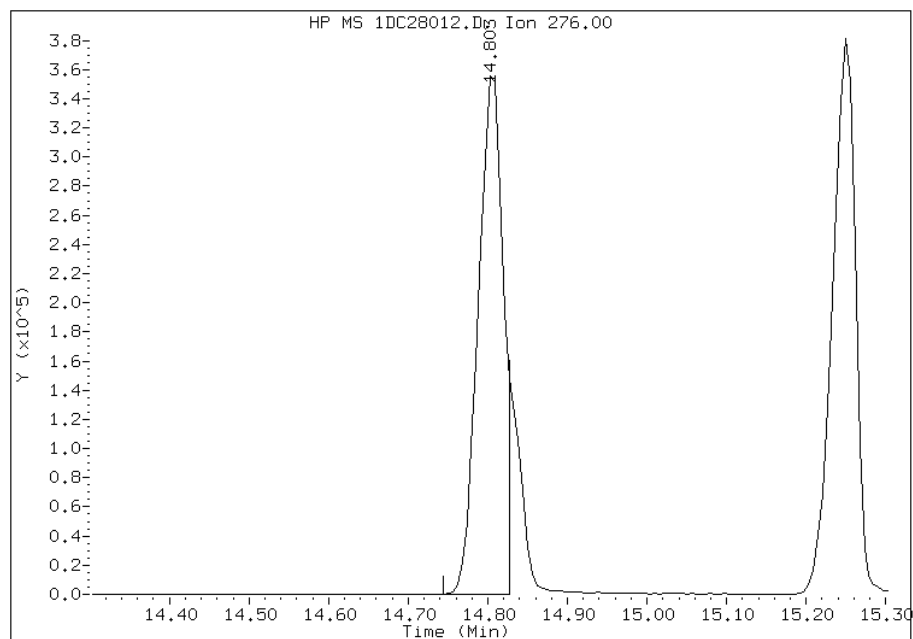
Processing Integration Results

RT: 14.80  
Response: 908448  
Amount: 8  
Conc: 547



Manual Integration Results

RT: 14.80  
Response: 777532  
Amount: 7  
Conc: 469



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 13:49  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: 680-88592-A-19-B MS  
 Matrix: Solid Lab File ID: 1CC27009.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07  
 Sample wt/vol: 15.02(g) Date Analyzed: 03/27/2013 12:39  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 33.5 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	681		600	120
208-96-8	Acenaphthylene	617		240	30
120-12-7	Anthracene	583		50	25
56-55-3	Benzo[a]anthracene	1120		48	23
50-32-8	Benzo[a]pyrene	1280		63	31
205-99-2	Benzo[b]fluoranthene	2010		73	37
191-24-2	Benzo[g,h,i]perylene	1370		120	26
207-08-9	Benzo[k]fluoranthene	1150		48	22
218-01-9	Chrysene	1240		54	27
53-70-3	Dibenz(a,h)anthracene	768		120	25
206-44-0	Fluoranthene	1280		120	24
86-73-7	Fluorene	671		120	25
193-39-5	Indeno[1,2,3-cd]pyrene	1110		120	43
90-12-0	1-Methylnaphthalene	781		240	26
91-57-6	2-Methylnaphthalene	690		240	43
91-20-3	Naphthalene	865		240	26
85-01-8	Phenanthrene	870		48	23
129-00-0	Pyrene	1240		120	22

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\BSMC5973.i\1C032713.b\1CC27009.D  
 Lab Smp Id: 680-88592-a-19-b ms  
 Inj Date : 27-MAR-2013 12:39  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88592-a-19-b ms  
 Misc Info : 4.0  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m  
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	15.020	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		3.727	3.727	(1.000)	788710	40.0000		
* 6 Acenaphthene-d10	164		4.815	4.815	(1.000)	620741	40.0000		
* 10 Phenanthrene-d10	188		5.762	5.762	(1.000)	1191395	40.0000		
\$ 14 o-Terphenyl	230		6.015	6.015	(1.044)	24672	1.37158	365.2672	
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1439736	40.0000		
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1443512	40.0000		
2 Naphthalene	128		3.739	3.739	(1.003)	44317	2.15832	574.7855	
3 2-Methylnaphthalene	142		4.168	4.168	(1.118)	23574	1.72117	458.3681	
4 1-Methylnaphthalene	142		4.227	4.227	(1.134)	24298	1.94786	518.7371	
5 Acenaphthylene	152		4.727	4.727	(0.982)	38530	1.53958	410.0076	
7 Acenaphthene	154		4.833	4.833	(1.004)	26426	1.69885	452.4224	
9 Fluorene	166		5.157	5.157	(1.071)	32951	1.67498	446.0668	
11 Phenanthrene	178		5.780	5.780	(1.003)	74827	2.17205	578.4431	
12 Anthracene	178		5.815	5.815	(1.009)	49011	1.45469	387.4001	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.921	5.921	(1.028)	46442	1.55067	412.9614
15 Fluoranthene	202	6.615	6.615	(1.148)	120164	3.18511	848.2320
16 Pyrene	202	6.780	6.786	(0.880)	119597	3.09109	823.1940
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	116271	2.79810	745.1662
19 Chrysene	228	7.721	7.727	(1.002)	128319	3.08572	821.7631
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	189312	5.01830	1336.4312(R)
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.964)	111147	2.87207	764.8646
22 Benzo(a)pyrene	252	8.827	8.833	(0.993)	117340	3.20228	852.8032
24 Indeno(1,2,3-cd)pyrene	276	10.039	10.050	(1.130)	95285	2.76426	736.1534(M)
25 Dibenzo(a,h)anthracene	278	10.056	10.068	(1.132)	64622	1.91661	510.4144
26 Benzo(g,h,i)perylene	276	10.392	10.397	(1.169)	123136	3.41485	909.4153(R)

QC Flag Legend

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

Data File: 1CC27009.D

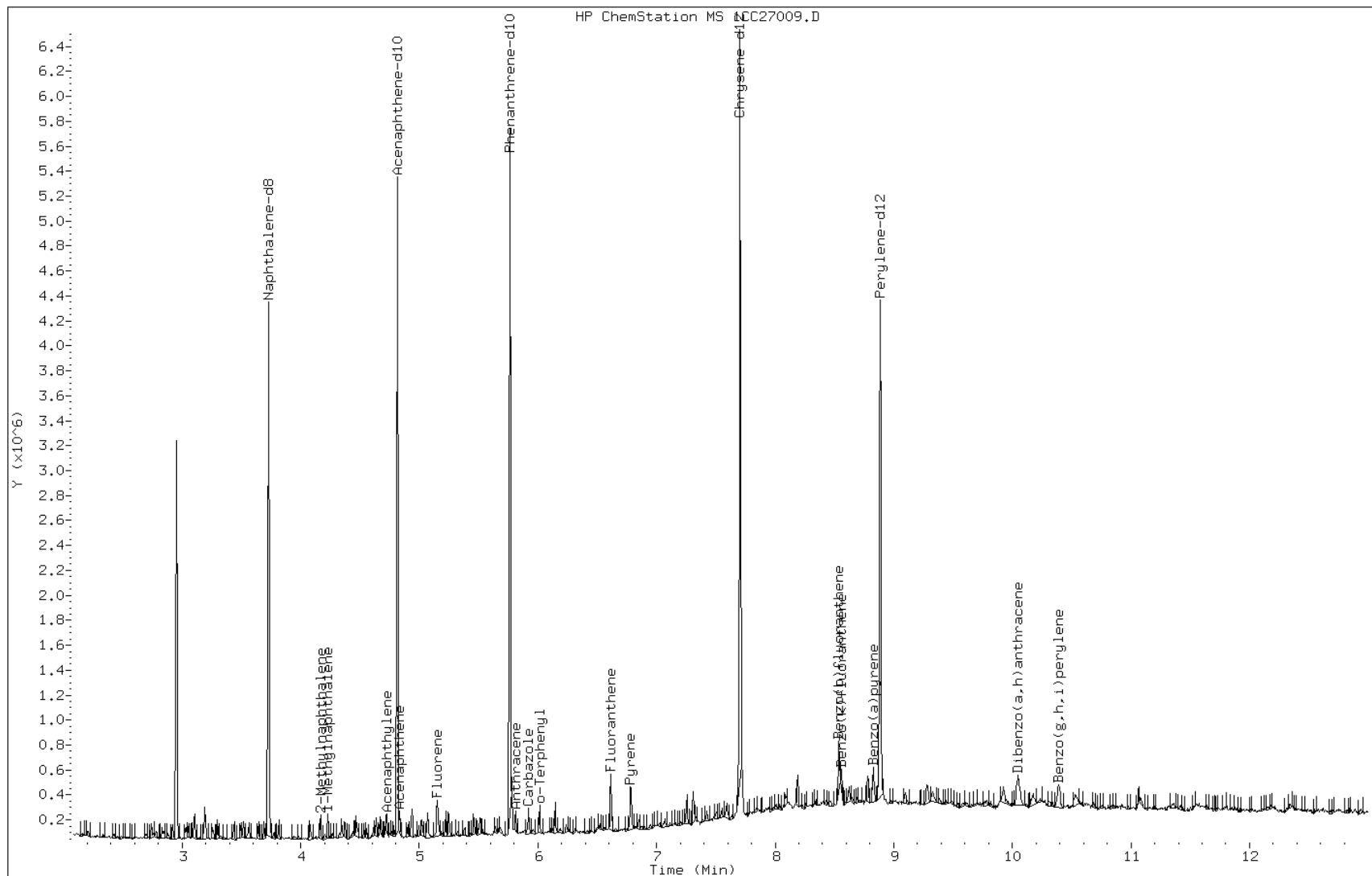
Date: 27-MAR-2013 12:39

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88592-a-19-b ms

Operator: SCC

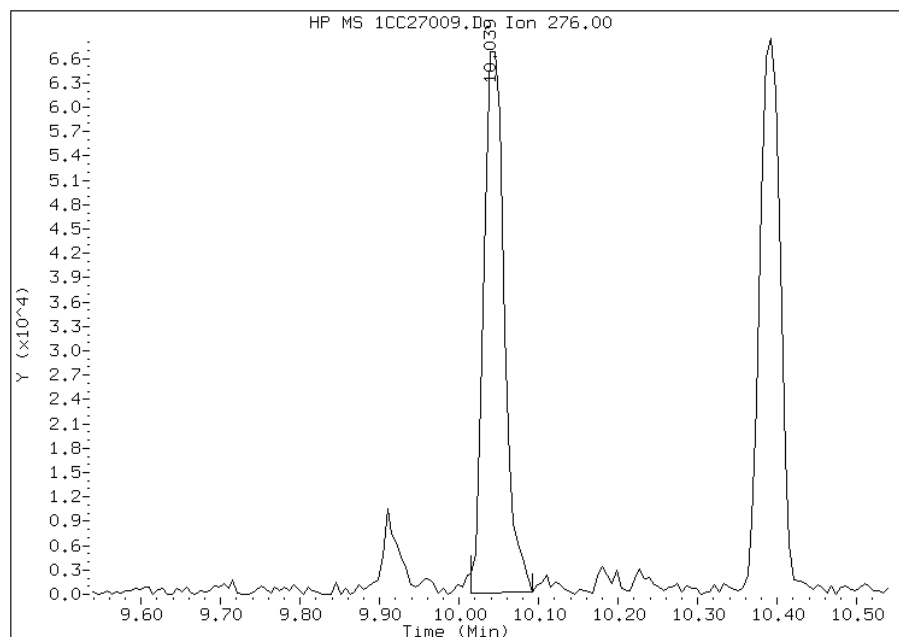


# Manual Integration Report

Data File: 1CC27009.D  
Inj. Date and Time: 27-MAR-2013 12:39  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/27/2013

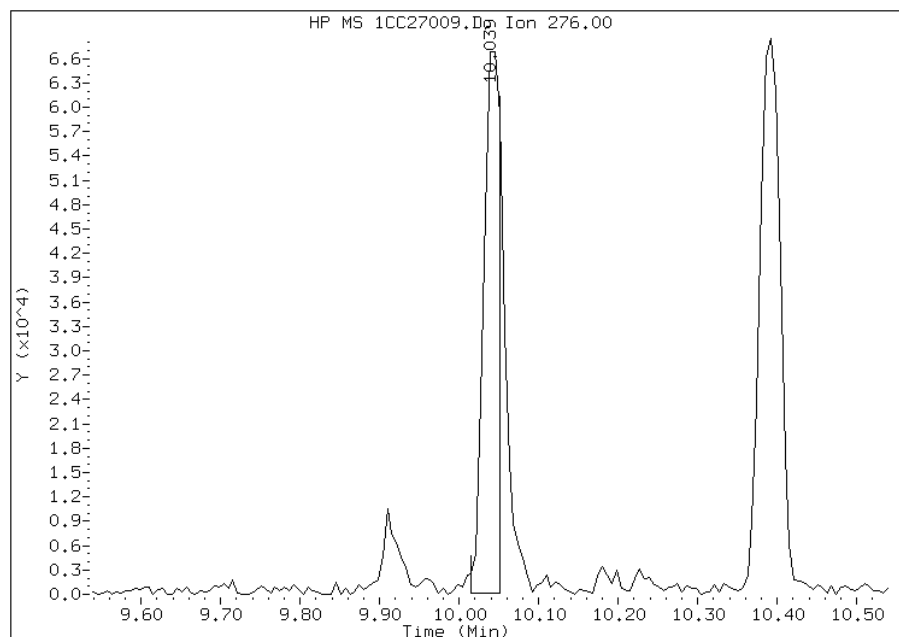
## Processing Integration Results

RT: 10.04  
Response: 119649  
Amount: 3  
Conc: 924



## Manual Integration Results

RT: 10.04  
Response: 95285  
Amount: 3  
Conc: 736



Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 13:34  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Client Sample ID: CV1323A-GS MS Lab Sample ID: 680-88592-21 MS  
 Matrix: Solid Lab File ID: 1DC28014.D  
 Analysis Method: 8270C LL Date Collected: 03/20/2013 14:00  
 Extract. Method: 3546 Date Extracted: 03/27/2013 11:19  
 Sample wt/vol: 14.75(g) Date Analyzed: 03/28/2013 16:50  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 20.8 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136038 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	465	J	510	100
208-96-8	Acenaphthylene	493		210	26
120-12-7	Anthracene	478		43	22
56-55-3	Benzo[a]anthracene	561		41	20
50-32-8	Benzo[a]pyrene	467		53	27
205-99-2	Benzo[b]fluoranthene	511		63	31
191-24-2	Benzo[g,h,i]perylene	485		100	23
207-08-9	Benzo[k]fluoranthene	473		41	18
218-01-9	Chrysene	484		46	23
53-70-3	Dibenz(a,h)anthracene	525		100	21
206-44-0	Fluoranthene	509		100	21
86-73-7	Fluorene	502		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	474		100	36
90-12-0	1-Methylnaphthalene	535		210	23
91-57-6	2-Methylnaphthalene	520		210	36
91-20-3	Naphthalene	507		210	23
85-01-8	Phenanthrene	480		41	20
129-00-0	Pyrene	477		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	57		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28014.D  
 Lab Smp Id: 680-88592-A-21-B MS  
 Inj Date : 28-MAR-2013 16:50  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-88592-A-21-B MS  
 Misc Info : 4.0  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dFASTPAHi.m  
 Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 14 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	14.750	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/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.103	6.102	(1.000)	3558914	40.0000		
* 6 Acenaphthene-d10	164		7.777	7.777	(1.000)	2282337	40.0000		
* 9 Phenanthrene-d10	188		9.040	9.040	(1.000)	3768115	40.0000		
\$ 13 o-Terphenyl	230		9.346	9.351	(1.034)	83287	1.42932	390	
* 17 Chrysene-d12	240		11.367	11.373	(1.000)	3819813	40.0000		
* 22 Perylene-d12	264		13.218	13.223	(1.000)	3970099	40.0000		
2 Naphthalene	128		6.120	6.126	(1.003)	140891	1.47990	400	
3 2-Methylnaphthalene	142		6.825	6.825	(1.118)	91992	1.51688	410	
4 1-Methylnaphthalene	142		6.919	6.919	(1.134)	88757	1.56289	420	
5 Acenaphthylene	152		7.648	7.653	(0.983)	144913	1.44016	390	
7 Acenaphthene	154		7.801	7.806	(1.003)	83230	1.35659	370	
8 Fluorene	166		8.247	8.247	(1.060)	104963	1.46428	400	
10 Phenanthrene	178		9.058	9.064	(1.002)	149813	1.40059	380	
11 Anthracene	178		9.093	9.099	(1.006)	149252	1.39462	380	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.234	9.240	(1.021)	131695	1.37654	370
14 Fluoranthene	202	10.039	10.045	(1.110)	165706	1.48449	400
15 Pyrene	202	10.227	10.233	(0.900)	165141	1.39375	380
16 Benzo(a)anthracene	228	11.338	11.349	(0.997)	171394	1.63891	440
18 Chrysene	228	11.385	11.396	(1.002)	152530	1.41276	380
19 Benzo(b)fluoranthene	252	12.648	12.671	(0.957)	152483	1.49216	400
20 Benzo(k)fluoranthene	252	12.689	12.712	(0.960)	147844	1.38177	370
21 Benzo(a)pyrene	252	13.100	13.124	(0.991)	137887	1.36353	370
23 Indeno(1,2,3-cd)pyrene	276	14.792	14.827	(1.119)	149286	1.38332	380(M)
24 Dibenzo(a,h)anthracene	278	14.822	14.863	(1.121)	152664	1.53176	420(H)
25 Benzo(g,h,i)perylene	276	15.233	15.280	(1.152)	145824	1.41722	380(H)

QC Flag Legend

- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File: 1DC28014.D

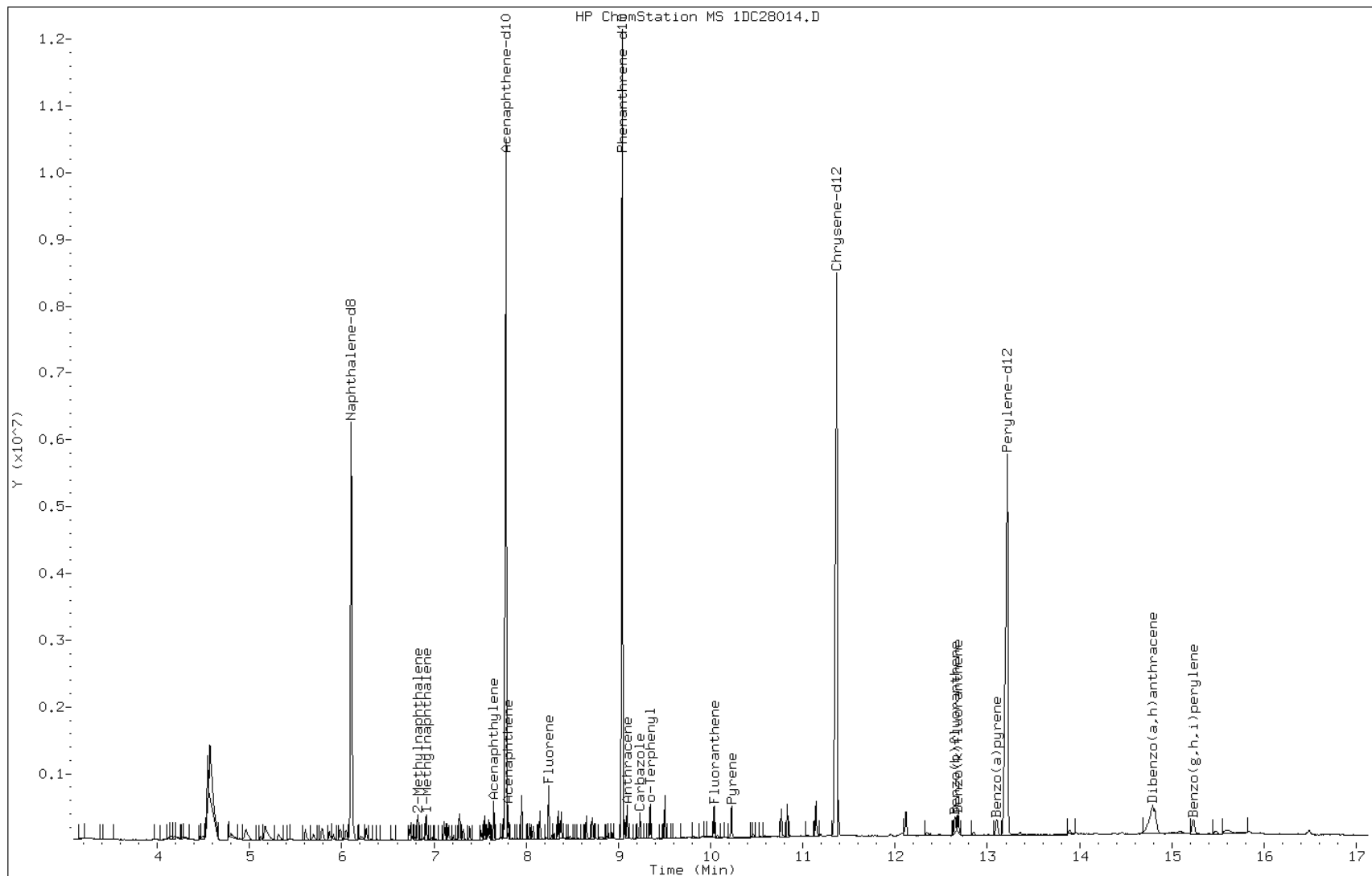
Date: 28-MAR-2013 16:50

Client ID:

Instrument: BSMSD.i

Sample Info: 680-88592-A-21-B MS

Operator: SCC

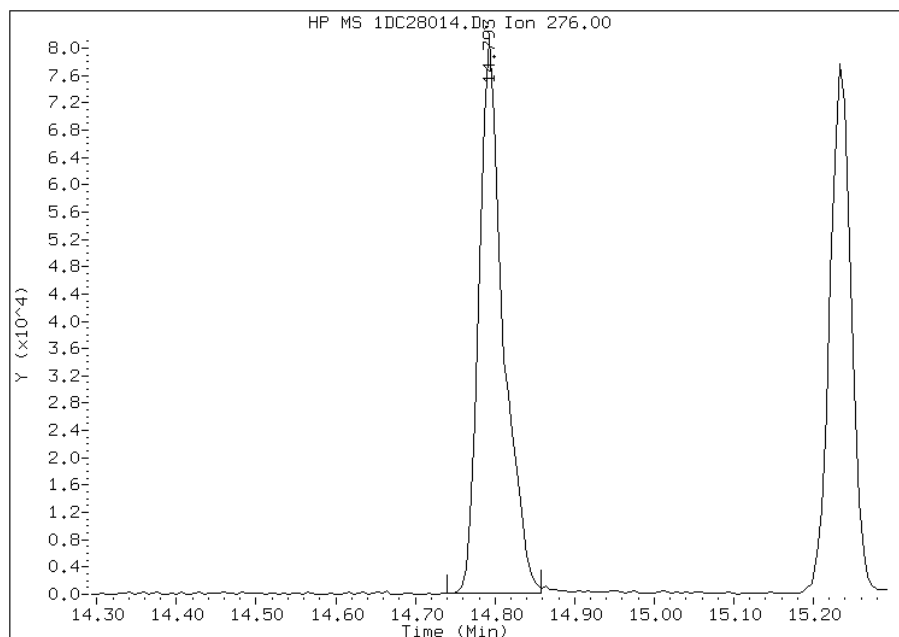


Manual Integration Report

Data File: 1DC28014.D  
Inj. Date and Time: 28-MAR-2013 16:50  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

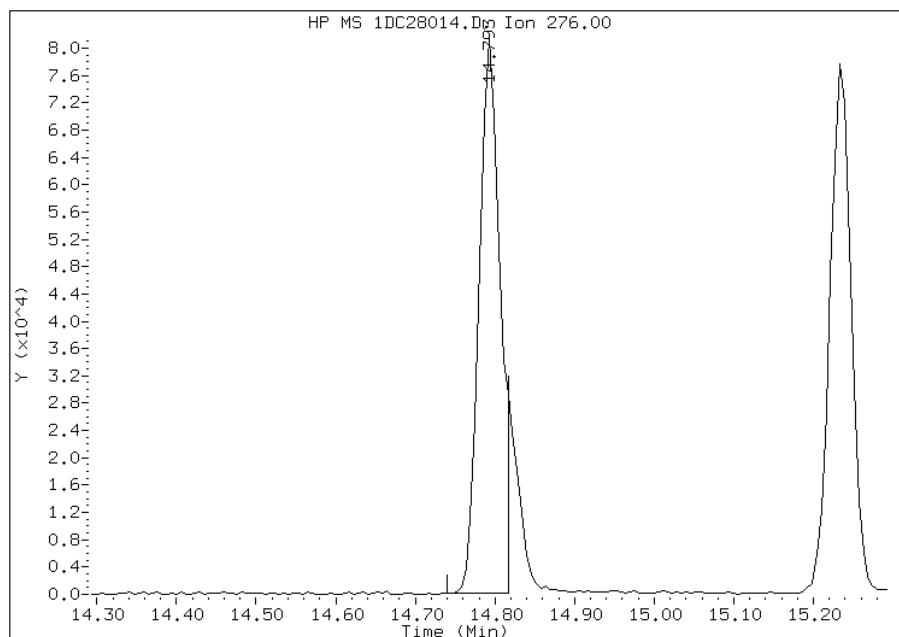
Processing Integration Results

RT: 14.79  
Response: 171808  
Amount: 2  
Conc: 432



Manual Integration Results

RT: 14.79  
Response: 149286  
Amount: 1  
Conc: 375



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 13:55  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: 680-88592-A-19-C MSD  
 Matrix: Solid Lab File ID: 1CC27010.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07  
 Sample wt/vol: 15.02(g) Date Analyzed: 03/27/2013 12:57  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 33.5 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	616		600	120
208-96-8	Acenaphthylene	693		240	30
120-12-7	Anthracene	763		50	25
56-55-3	Benzo[a]anthracene	1550		48	23
50-32-8	Benzo[a]pyrene	1700		63	31
205-99-2	Benzo[b]fluoranthene	3480		73	37
191-24-2	Benzo[g,h,i]perylene	1900		120	26
207-08-9	Benzo[k]fluoranthene	1420		48	22
218-01-9	Chrysene	1760		54	27
53-70-3	Dibenz(a,h)anthracene	1010		120	25
206-44-0	Fluoranthene	1780		120	24
86-73-7	Fluorene	829		120	25
193-39-5	Indeno[1,2,3-cd]pyrene	1740		120	43
90-12-0	1-Methylnaphthalene	882		240	26
91-57-6	2-Methylnaphthalene	985		240	43
91-20-3	Naphthalene	946		240	26
85-01-8	Phenanthrene	1170		48	23
129-00-0	Pyrene	1580		120	22

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	69		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27010.D  
 Lab Smp Id: 680-88592-a-19-c ms  
 Inj Date : 27-MAR-2013 12:57  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88592-a-19-c msd  
 Misc Info : 4.0  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m  
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	15.020	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		3.727	3.727	(1.000)	715305	40.0000		
* 6 Acenaphthene-d10	164		4.816	4.815	(1.000)	593203	40.0000		
* 10 Phenanthrene-d10	188		5.763	5.762	(1.000)	1086522	40.0000		
\$ 14 o-Terphenyl	230		6.015	6.015	(1.044)	28340	1.72756	460.0695	
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1295155	40.0000		
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1276318	40.0000		
2 Naphthalene	128		3.739	3.739	(1.003)	43947	2.35994	628.4790	
3 2-Methylnaphthalene	142		4.169	4.168	(1.118)	30517	2.45674	654.2580	
4 1-Methylnaphthalene	142		4.227	4.227	(1.134)	24908	2.20167	586.3295	
5 Acenaphthylene	152		4.727	4.727	(0.982)	41382	1.73030	460.7990	
7 Acenaphthene	154		4.833	4.833	(1.004)	22844	1.53675	409.2530	
9 Fluorene	166		5.157	5.157	(1.071)	38879	2.06806	550.7488	
11 Phenanthrene	178		5.780	5.780	(1.003)	91857	2.92376	778.6312	
12 Anthracene	178		5.815	5.815	(1.009)	58486	1.90347	506.9153	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.921	5.921	(1.028)	52790	1.93276	514.7158
15 Fluoranthene	202	6.615	6.615	(1.148)	152697	4.43811	1181.9199(R)
16 Pyrene	202	6.780	6.786	(0.880)	137518	3.95105	1052.2104(R)
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	144414	3.86333	1028.8503(R)
19 Chrysene	228	7.721	7.727	(1.002)	164193	4.38916	1168.8840(R)
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	289529	8.68025	2311.6498(R)
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.964)	120811	3.53073	940.2748(R)
22 Benzo(a)pyrene	252	8.833	8.833	(0.994)	137173	4.23392	1127.5423(R)
24 Indeno(1,2,3-cd)pyrene	276	10.045	10.050	(1.130)	132403	4.34423	1156.9195(RM)
25 Dibenzo(a,h)anthracene	278	10.062	10.068	(1.132)	75035	2.51697	670.2980
26 Benzo(g,h,i)perylene	276	10.392	10.397	(1.169)	151066	4.73822	1261.8434(R)

QC Flag Legend

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



Data File: 1CC27010.D

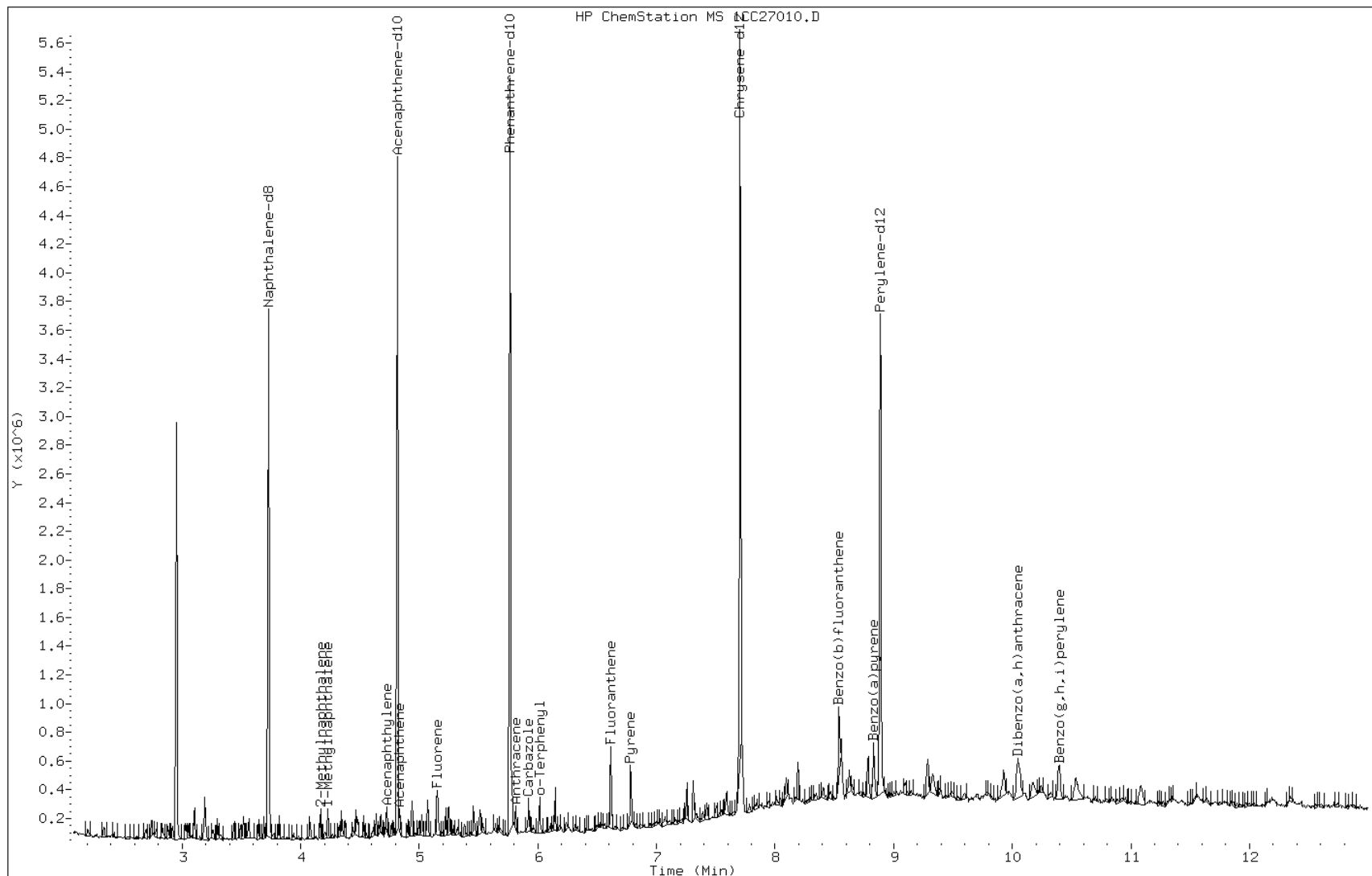
Date: 27-MAR-2013 12:57

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88592-a-19-c msd

Operator: SCC

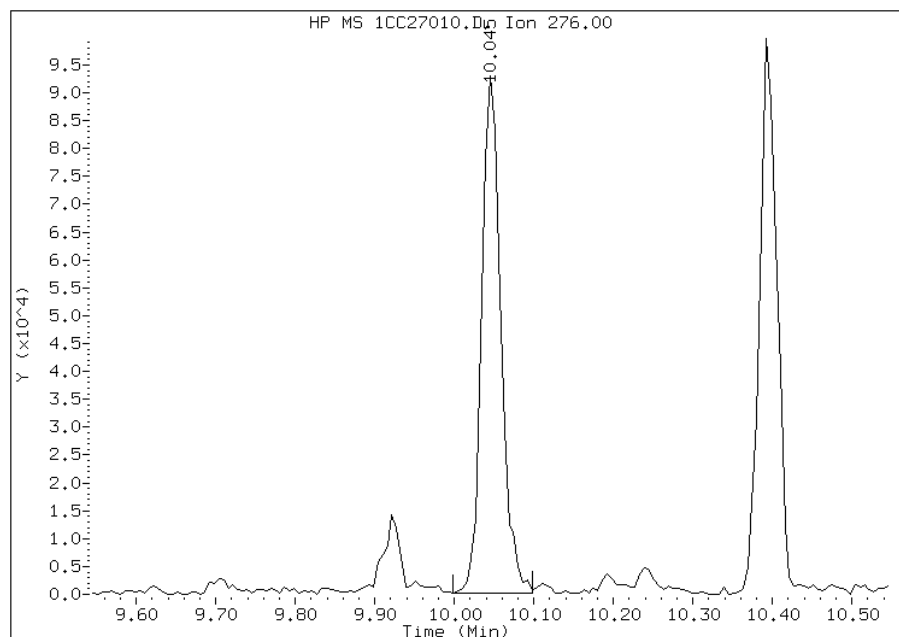


# Manual Integration Report

Data File: 1CC27010.D  
Inj. Date and Time: 27-MAR-2013 12:57  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/27/2013

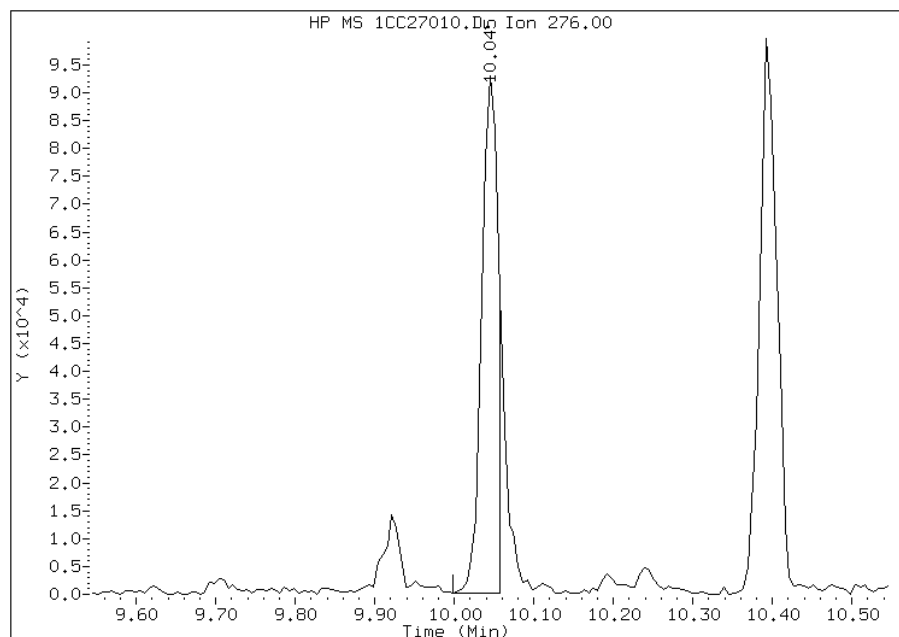
## Processing Integration Results

RT: 10.05  
Response: 154419  
Amount: 5  
Conc: 1349



## Manual Integration Results

RT: 10.05  
Response: 132403  
Amount: 4  
Conc: 1157



Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 13:35  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-2  
 SDG No.: 68088592-2  
 Client Sample ID: CV1323A-GS MSD Lab Sample ID: 680-88592-21 MSD  
 Matrix: Solid Lab File ID: 1DC28015.D  
 Analysis Method: 8270C LL Date Collected: 03/20/2013 14:00  
 Extract. Method: 3546 Date Extracted: 03/27/2013 11:19  
 Sample wt/vol: 14.54(g) Date Analyzed: 03/28/2013 17:12  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 20.8 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136038 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	536		520	100
208-96-8	Acenaphthylene	543		210	26
120-12-7	Anthracene	550		44	22
56-55-3	Benzo[a]anthracene	633		42	20
50-32-8	Benzo[a]pyrene	535		54	27
205-99-2	Benzo[b]fluoranthene	591		64	32
191-24-2	Benzo[g,h,i]perylene	564		100	23
207-08-9	Benzo[k]fluoranthene	571		42	19
218-01-9	Chrysene	558		47	23
53-70-3	Dibenz(a,h)anthracene	604		100	21
206-44-0	Fluoranthene	571		100	21
86-73-7	Fluorene	559		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	527		100	37
90-12-0	1-Methylnaphthalene	602		210	23
91-57-6	2-Methylnaphthalene	580		210	37
91-20-3	Naphthalene	552		210	23
85-01-8	Phenanthrene	553		42	20
129-00-0	Pyrene	552		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	63		30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28015.D  
 Lab Smp Id: 680-88592-A-21-C MS  
 Inj Date : 28-MAR-2013 17:12  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-88592-A-21-C MSD  
 Misc Info : 4.0  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dFASTPAHi.m  
 Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 15 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	14.750	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/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.101	6.102	(1.000)	3608549	40.0000		
* 6 Acenaphthene-d10	164		7.781	7.777	(1.000)	2329630	40.0000		
* 9 Phenanthrene-d10	188		9.039	9.040	(1.000)	3894748	40.0000		
\$ 13 o-Terphenyl	230		9.344	9.351	(1.034)	95434	1.58453	430	
* 17 Chrysene-d12	240		11.365	11.373	(1.000)	3914233	40.0000		
* 22 Perylene-d12	264		13.222	13.223	(1.000)	4038676	40.0000		
2 Naphthalene	128		6.124	6.126	(1.004)	153450	1.58964	430	
3 2-Methylnaphthalene	142		6.824	6.825	(1.118)	102636	1.66912	450	
4 1-Methylnaphthalene	142		6.918	6.919	(1.134)	99805	1.73326	470	
5 Acenaphthylene	152		7.646	7.653	(0.983)	160629	1.56394	420	
7 Acenaphthene	154		7.805	7.806	(1.003)	96535	1.54151	420	
8 Fluorene	166		8.245	8.247	(1.060)	117667	1.60818	440	
10 Phenanthrene	178		9.056	9.064	(1.002)	175841	1.59047	430	
11 Anthracene	178		9.097	9.099	(1.006)	175218	1.58401	430	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.233	9.240	(1.021)	141299	1.42890	390
14 Fluoranthene	202	10.037	10.045	(1.110)	189687	1.64407	440
15 Pyrene	202	10.226	10.233	(0.900)	193039	1.58990	430
16 Benzo(a)anthracene	228	11.342	11.349	(0.998)	195355	1.82297	490
18 Chrysene	228	11.383	11.396	(1.002)	177625	1.60551	440
19 Benzo(b)fluoranthene	252	12.652	12.671	(0.957)	176883	1.70154	460(H)
20 Benzo(k)fluoranthene	252	12.687	12.712	(0.960)	178821	1.64291	440
21 Benzo(a)pyrene	252	13.099	13.124	(0.991)	158281	1.53863	420
23 Indeno(1,2,3-cd)pyrene	276	14.791	14.827	(1.119)	166457	1.51624	410(M)
24 Dibenzo(a,h)anthracene	278	14.820	14.863	(1.121)	176315	1.73903	470
25 Benzo(g,h,i)perylene	276	15.237	15.280	(1.152)	169931	1.62347	440

QC Flag Legend

- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File: 1DC28015.D

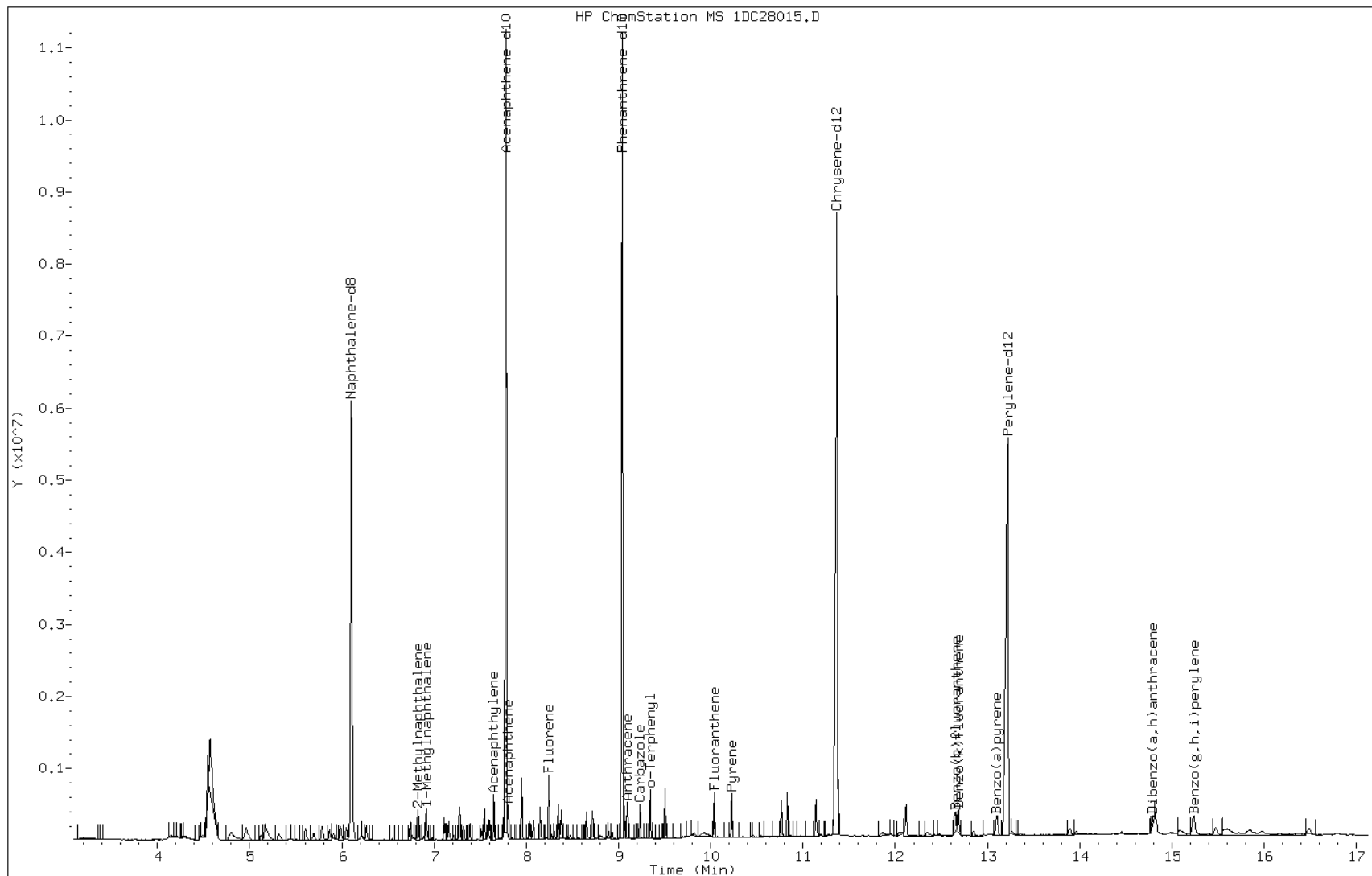
Date: 28-MAR-2013 17:12

Client ID:

Instrument: BSMSD.i

Sample Info: 680-88592-A-21-C MSD

Operator: SCC

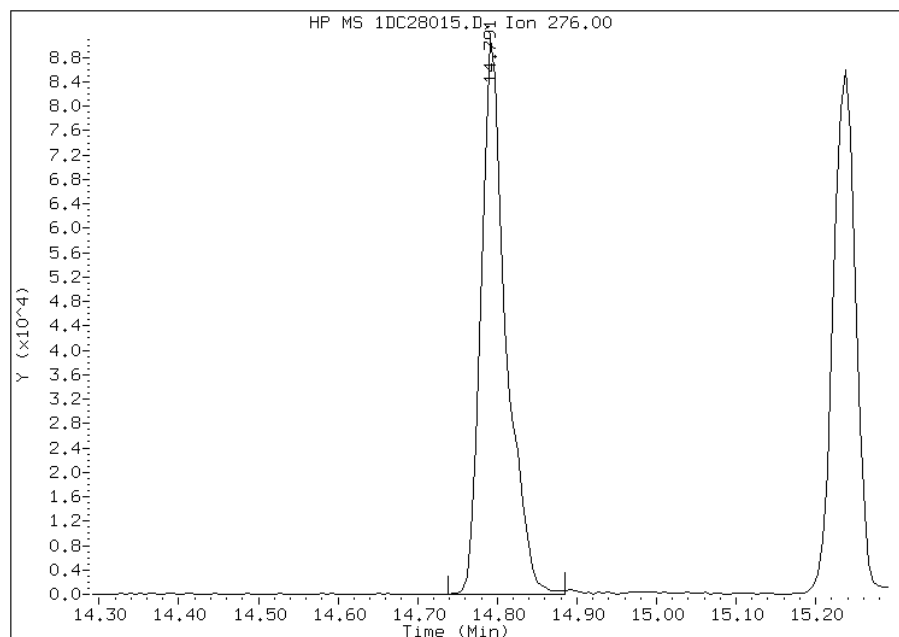


# Manual Integration Report

Data File: 1DC28015.D  
Inj. Date and Time: 28-MAR-2013 17:12  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

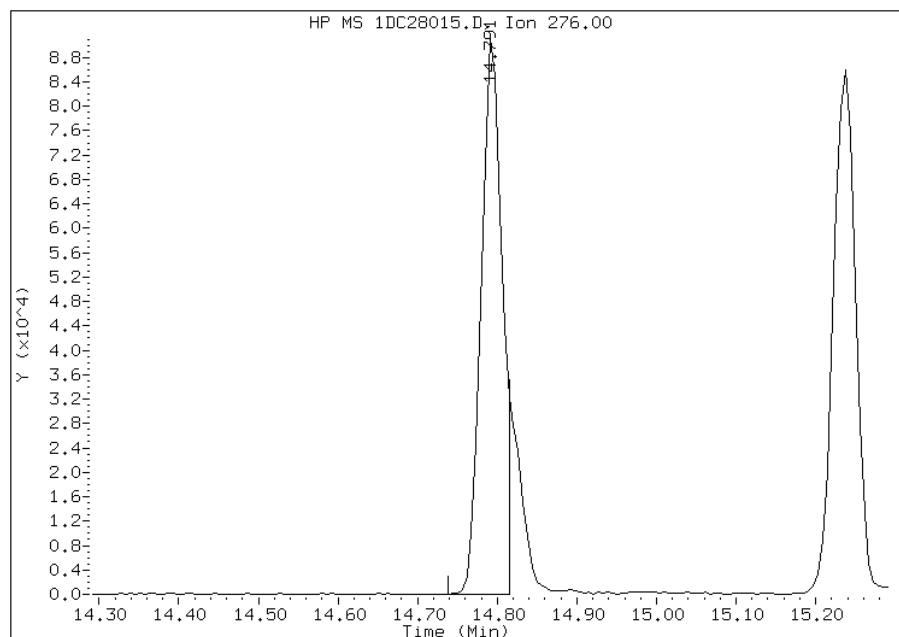
## Processing Integration Results

RT: 14.79  
Response: 197079  
Amount: 2  
Conc: 487



## Manual Integration Results

RT: 14.79  
Response: 166457  
Amount: 2  
Conc: 411



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 13:56  
Manual Integration Reason: Split Peak

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88592-2SDG No.: 68088592-2Instrument ID: BSMC5973Start Date: 02/22/2013 11:04Analysis Batch Number: 134776End Date: 02/22/2013 19:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 11:04	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 11:23	1		DB-5MS 250 (um)
DFTPP 660-134776/2		02/22/2013 11:41	1	1CB22002.D	DB-5MS 250 (um)
IC 660-134776/3		02/22/2013 11:57	1	1CB22003.D	DB-5MS 250 (um)
IC 660-134776/4		02/22/2013 12:16	1	1CB22004.D	DB-5MS 250 (um)
IC 660-134776/5		02/22/2013 12:34	1	1CB22005.D	DB-5MS 250 (um)
IC 660-134776/6		02/22/2013 12:53	1	1CB22006.D	DB-5MS 250 (um)
ICIS 660-134776/7		02/22/2013 13:11	1	1CB22007.D	DB-5MS 250 (um)
IC 660-134776/8		02/22/2013 13:29	1	1CB22008.D	DB-5MS 250 (um)
IC 660-134776/9		02/22/2013 13:48	1	1CB22009.D	DB-5MS 250 (um)
ICV 660-134776/10		02/22/2013 14:06	1	1CB22010.D	DB-5MS 250 (um)
ZZZZZ		02/22/2013 14:26	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 14:45	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:03	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:21	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:40	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:58	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:16	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:34	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:53	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:11	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:29	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:48	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:06	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:24	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:43	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:01	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:19	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:38	1		DB-5MS 250 (um)



## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88592-2SDG No.: 68088592-2Instrument ID: BSMC5973Start Date: 03/27/2013 09:41Analysis Batch Number: 135830End Date: 03/27/2013 20:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/27/2013 09:41	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 09:59	1		DB-5MS 250 (um)
DFTPP 660-135830/2		03/27/2013 10:18	1	1CC27002.D	DB-5MS 250 (um)
CCVIS 660-135830/3		03/27/2013 10:35	1	1CC27003.D	DB-5MS 250 (um)
ZZZZZ		03/27/2013 10:53	1		DB-5MS 250 (um)
MB 660-135800/1-A		03/27/2013 11:26	1	1CC27005.D	DB-5MS 250 (um)
LCS 660-135800/2-A		03/27/2013 11:44	1	1CC27006.D	DB-5MS 250 (um)
ZZZZZ		03/27/2013 12:02	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 12:20	4		DB-5MS 250 (um)
680-88592-A-19-B MS		03/27/2013 12:39	4	1CC27009.D	DB-5MS 250 (um)
680-88592-A-19-C MSD		03/27/2013 12:57	4	1CC27010.D	DB-5MS 250 (um)
ZZZZZ		03/27/2013 13:15	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 13:34	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 13:52	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 14:11	4		DB-5MS 250 (um)
680-88592-22	CV1323B-GS	03/27/2013 14:29	1	1CC27015.D	DB-5MS 250 (um)
680-88592-23	CV1323C-GS	03/27/2013 14:47	1	1CC27016.D	DB-5MS 250 (um)
680-88592-24	CV1323D-GS	03/27/2013 15:05	1	1CC27017.D	DB-5MS 250 (um)
680-88592-25	CV0763A-CS-SP	03/27/2013 15:24	1	1CC27018.D	DB-5MS 250 (um)
680-88592-26	CV0763B-CS-SP	03/27/2013 15:42	1	1CC27019.D	DB-5MS 250 (um)
680-88592-27	CV0833A-CS-SP	03/27/2013 16:00	4	1CC27020.D	DB-5MS 250 (um)
ZZZZZ		03/27/2013 16:18	1		DB-5MS 250 (um)
680-88592-28	CV0833B-CS-SP	03/27/2013 16:37	4	1CC27022.D	DB-5MS 250 (um)
680-88592-29	CV0876A-CS-SP	03/27/2013 16:55	1	1CC27023.D	DB-5MS 250 (um)
680-88592-30	CV0876B-CS-SP	03/27/2013 17:13	4	1CC27024.D	DB-5MS 250 (um)
680-88592-31	FM0168A-CS-SP	03/27/2013 17:31	1	1CC27025.D	DB-5MS 250 (um)
680-88592-32	FM0168B-CS-SP	03/27/2013 17:49	4	1CC27026.D	DB-5MS 250 (um)
ZZZZZ		03/27/2013 18:08	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 18:26	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 18:44	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 19:03	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 19:21	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 19:39	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 19:58	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 20:16	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 20:34	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 20:53	1		DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88592-2SDG No.: 68088592-2Instrument ID: BSMD5973 Start Date: 02/22/2013 11:10Analysis Batch Number: 134781 End Date: 02/22/2013 20:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 11:10	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 11:33	1		DB-5MS 250 (um)
DFTPP 660-134781/2		02/22/2013 11:57	1	1DB22002.D	DB-5MS 250 (um)
IC 660-134781/3		02/22/2013 12:13	1	1DB22003.D	DB-5MS 250 (um)
IC 660-134781/4		02/22/2013 12:35	1	1DB22004.D	DB-5MS 250 (um)
IC 660-134781/5		02/22/2013 12:58	1	1DB22005.D	DB-5MS 250 (um)
IC 660-134781/6		02/22/2013 13:21	1	1DB22006.D	DB-5MS 250 (um)
ICIS 660-134781/7		02/22/2013 13:43	1	1DB22007.D	DB-5MS 250 (um)
IC 660-134781/8		02/22/2013 14:06	1	1DB22008.D	DB-5MS 250 (um)
IC 660-134781/9		02/22/2013 14:28	1	1DB22009.D	DB-5MS 250 (um)
ICV 660-134781/10		02/22/2013 14:51	1	1DB22010.D	DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:33	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:56	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:21	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:44	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:19	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:42	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:04	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:27	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:49	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:12	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:34	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:57	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 20:19	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 20:42	1		DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88592-2SDG No.: 68088592-2Instrument ID: BSMD5973Start Date: 03/28/2013 11:09Analysis Batch Number: 136038End Date: 03/28/2013 21:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/28/2013 11:09	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 11:35	1		DB-5MS 250 (um)
DFTPP 660-136038/2		03/28/2013 12:00	1	1DC28002.D	DB-5MS 250 (um)
CCVIS 660-136038/3		03/28/2013 12:18	1		DB-5MS 250 (um)
CCV 660-136038/4		03/28/2013 12:53	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 13:18	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 13:45	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 14:11	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 14:35	1		DB-5MS 250 (um)
CCVIS 660-136038/9		03/28/2013 14:57	1	1DC28009.D	DB-5MS 250 (um)
ZZZZZ		03/28/2013 15:20	1		DB-5MS 250 (um)
MB 660-135822/1-A		03/28/2013 15:42	1	1DC28011.D	DB-5MS 250 (um)
LCS 660-135822/2-A		03/28/2013 16:05	1	1DC28012.D	DB-5MS 250 (um)
680-88592-21	CV1323A-GS	03/28/2013 16:27	4	1DC28013.D	DB-5MS 250 (um)
680-88592-21 MS	CV1323A-GS MS	03/28/2013 16:50	4	1DC28014.D	DB-5MS 250 (um)
680-88592-21 MSD	CV1323A-GS MSD	03/28/2013 17:12	4	1DC28015.D	DB-5MS 250 (um)
ZZZZZ		03/28/2013 17:35	4		DB-5MS 250 (um)
ZZZZZ		03/28/2013 17:57	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 18:20	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 18:42	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 19:05	4		DB-5MS 250 (um)
ZZZZZ		03/28/2013 19:27	4		DB-5MS 250 (um)
ZZZZZ		03/28/2013 19:50	4		DB-5MS 250 (um)
ZZZZZ		03/28/2013 20:12	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 20:35	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 20:57	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 21:20	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 21:42	1		DB-5MS 250 (um)

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-2SDG No.: 68088592-2Batch Number: 135800 Batch Start Date: 03/26/13 16:07 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 04/03/13 09:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00178		
MB 660-135800/1		3546, 8270C LL		15.02 g	1 mL		1 mL		
LCS 660-135800/2		3546, 8270C LL		14.93 g	1 mL	1 mL	1 mL		
680-88592-A-19 MS		3546, 8270C LL	T	15.02 g	1 mL	1 mL	1 mL		
680-88592-A-19 MSD		3546, 8270C LL	T	15.02 g	1 mL	1 mL	1 mL		
680-88592-A-22	CV1323B-GS	3546, 8270C LL	T	15.22 g	1 mL		1 mL		
680-88592-A-23	CV1323C-GS	3546, 8270C LL	T	15.01 g	1 mL		1 mL		
680-88592-A-24	CV1323D-GS	3546, 8270C LL	T	14.90 g	1 mL		1 mL		
680-88592-A-25	CV0763A-CS-SP	3546, 8270C LL	T	15.15 g	1 mL		1 mL		
680-88592-A-26	CV0763B-CS-SP	3546, 8270C LL	T	15.16 g	1 mL		1 mL		
680-88592-A-27	CV0833A-CS-SP	3546, 8270C LL	T	14.96 g	1 mL		1 mL		
680-88592-A-28	CV0833B-CS-SP	3546, 8270C LL	T	15.15 g	1 mL		1 mL		
680-88592-A-29	CV0876A-CS-SP	3546, 8270C LL	T	15.06 g	1 mL		1 mL		
680-88592-A-30	CV0876B-CS-SP	3546, 8270C LL	T	15.05 g	1 mL		1 mL		
680-88592-A-31	FM0168A-CS-SP	3546, 8270C LL	T	15.08 g	1 mL		1 mL		
680-88592-A-32	FM0168B-CS-SP	3546, 8270C LL	T	15.12 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.: 680-88592-2SDG No.: 68088592-2Batch Number: 135800 Batch Start Date: 03/26/13 16:07 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 04/03/13 09:30

Batch Notes	
Acetone Lot #	EX-ACETON BOT 51
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RN
Exchange Solvent Lot #	EX-MC CYCL 55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 55
MeCl2/Acetone Lot #	DCM/ACETON 52
Microwave Start Time	17:40 3/26/13
Microwave Stop Time	18:15 3/26/13
Na2SO4 Lot Number	EX-NA2S04A 64
Ottawa Sand Lot #	EX-OTTOWA SAND 14
Person's name who did the prep	SAUREL
SOP Number	TP-014
Person who witnessed spiking	SELF
Surrogate Lot Number	EXLLSURINT 178
Water Bath ID	TURBOVAP2 #1/2/3/4
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.: 680-88592-2SDG No.: 68088592-2Batch Number: 135822 Batch Start Date: 03/27/13 11:19 Batch Analyst: Nolan, RyanBatch Method: 3546 Batch End Date: 03/27/13 16:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00178		
MB 660-135822/1		3546, 8270C LL		15.15 g	1 mL		1 mL		
LCS 660-135822/2		3546, 8270C LL		14.93 g	1 mL	1 mL	1 mL		
680-88592-A-21	CV1323A-GS	3546, 8270C LL	T	15.25 g	1 mL		1 mL		
680-88592-A-21 MS	CV1323A-GS	3546, 8270C LL	T	14.75 g	1 mL	1 mL	1 mL		
680-88592-A-21 MSD	CV1323A-GS	3546, 8270C LL	T	14.54 g	1 mL	1 mL	1 mL		

Batch Notes	
Acetone Lot #	EX-ACETON BOT 51
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RN
Exchange Solvent Lot #	EX-DCM BOT 24
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCl2 Lot #	EX-MC CYCL 55/ EX-DCM BOT 24
MeCl2/Acetone Lot #	DCM/ACETON 52
Microwave Start Time	12:00 3/27/13
Microwave Stop Time	12:35 3/27/13
Na2SO4 Lot Number	EX-NA2S04A 64
Ottawa Sand Lot #	EX-OTTOWA SAND 14
Person's name who did the prep	RN
SOP Number	TP-EX014
Person who witnessed spiking	SC
Surrogate Lot Number	EXLLSURINT 178
Water Bath ID	TURBOVAP2 1/2/3/4
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.

8270C LL

Page 1 of 2

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-2

SDG No.: 68088592-2

Batch Number: 135822 Batch Start Date: 03/27/13 11:19 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 03/27/13 16:20

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: 680-88592-2

SDG No.: 68088592-2

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
<u>CV1323A-GS</u>	<u>680-88592-21</u>
<u>CV1323B-GS</u>	<u>680-88592-22</u>
<u>CV1323C-GS</u>	<u>680-88592-23</u>
<u>CV1323D-GS</u>	<u>680-88592-24</u>
<u>CV0763A-CS-SP</u>	<u>680-88592-25</u>
<u>CV0763B-CS-SP</u>	<u>680-88592-26</u>
<u>CV0833A-CS-SP</u>	<u>680-88592-27</u>
<u>CV0833B-CS-SP</u>	<u>680-88592-28</u>
<u>CV0876A-CS-SP</u>	<u>680-88592-29</u>
<u>CV0876B-CS-SP</u>	<u>680-88592-30</u>
<u>FM0168A-CS-SP</u>	<u>680-88592-31</u>
<u>FM0168B-CS-SP</u>	<u>680-88592-32</u>

Comments:

9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88592-2  
SDG Number: 68088592-2  
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: 680-88592-2  
SDG Number: 68088592-2  
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.: 680-88592-2

SDG No.: 68088592-2

Batch Number: 135737 Batch Start Date: 03/25/13 12:32 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: 03/26/13 06:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
MB 660-135737/1		Moisture		mb	0 g	8.17 g	8.15 g		
680-88592-A-26	CV0763B-CS-SP	Moisture	T	2	0 g	4.78 g	3.43 g		
680-88592-A-23	CV1323C-GS	Moisture	T	3	0 g	4.84 g	3.88 g		
680-88592-A-30	CV0876B-CS-SP	Moisture	T	7	0 g	4.34 g	3.86 g		
680-88592-A-27	CV0833A-CS-SP	Moisture	T	8	0 g	4.73 g	3.17 g		
680-88592-A-31	FM0168A-CS-SP	Moisture	T	9	0 g	5.57 g	4.10 g		
680-88592-A-21	CV1323A-GS	Moisture	T	10	0 g	5.04 g	3.99 g		
680-88592-A-21	CV1323A-GS	Moisture	T	10	0 g	5.04 g	3.99 g		
MS									
680-88592-A-21	CV1323A-GS	Moisture	T	10	0 g	5.04 g	3.99 g		
MSD									
680-88592-A-32	FM0168B-CS-SP	Moisture	T	11	0 g	4.70 g	3.74 g		
680-88592-A-29	CV0876A-CS-SP	Moisture	T	15	0 g	4.42 g	2.61 g		
680-88592-A-22	CV1323B-GS	Moisture	T	18	0 g	4.17 g	3.08 g		
680-88592-A-24	CV1323D-GS	Moisture	T	19	0 g	4.23 g	2.43 g		
680-88592-A-28	CV0833B-CS-SP	Moisture	T	20	0 g	4.63 g	3.56 g		
680-88592-A-25	CV0763A-CS-SP	Moisture	T	22	0 g	5.11 g	3.79 g		
680-88592-A-19		Moisture	T	26	0 g	4.62 g	3.07 g		
MS									
680-88592-A-19		Moisture	T	26	0 g	4.62 g	3.07 g		
MSD									

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	3.25.13

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

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:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS						PAGE <i>2</i> OF <i>3</i>
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TAL (LAB) PROJECT MANAGER <i>Lisa Harvey</i>	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	<i>LL PPAH</i> <i>PCRA 8 Metals</i>	STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX								EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>

(b) (6)  
CLIENT NAME  
(b) (6)  
CLIENT ADDRESS

COMPANY CONTRACTING THIS WORK (if applicable)

PRESERVATIVE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

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	
<i>3-20-13</i>	<i>0815</i>	<i>CV0701A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>							
	<i>1220</i>	<i>CV0715A-CS</i>	<i>C</i>	<i>X</i>										
	<del><i>1320</i></del>	<i>CV0715A-CSD</i>	<i>C</i>	<i>X</i>										
	<del><i>1300</i></del>	<i>CV0862A-CS</i>	<i>C</i>	<i>X</i>										
	<i>1315</i>	<i>CV0862B-CS</i>	<i>C</i>	<i>X</i>										
	<i>1325</i>	<i>CV1156A-CS</i>	<i>C</i>	<i>X</i>										
	<i>1345</i>	<i>CV1156B-CS</i>	<i>C</i>	<i>X</i>				<i>X</i>						
	<i>1450</i>	<i>CV1240A-CS</i>	<i>C</i>	<i>X</i>										
	<i>1400</i>	<i>CV1323A-GS</i>	<i>G</i>	<i>X</i>										
	<i>1410</i>	<i>CV1323B-GS</i>	<i>G</i>	<i>X</i>										
	<i>1415</i>	<i>CV1323C-GS</i>	<i>G</i>	<i>X</i>										
<i>X</i>	<i>1420</i>	<i>CV1323D-GS</i>	<i>G</i>	<i>X</i>										

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>3-21-13</i>	TIME <i>1500</i>	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>[Signature]</i>	DATE <i>03/22/13</i>	TIME <i>0939</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>8859.2</i>	LABORATORY REMARKS <i>1.6C</i>
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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:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>200548-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>3</i> OF <i>3</i>
TAL (LAB) PROJECT MANAGER <i>Lisa Harvey</i>	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	<div style="display: flex; justify-content: space-between;"> <span>LL PAX</span> <span>RCLAS Metals</span> </div>	STANDARD REPORT DELIVERY <input type="radio"/>
CLIENT NAME <i>(b) (6)</i>	CLIENT E-MAIL	CLIENT FAX			EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>

CLIENT ADDRESS

COMPANY CONTRACTING THIS WORK (if applicable)

PRESERVATIVE

DATE DUE \_\_\_\_\_

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

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				
3-20-13	1401	CV0763A-CS-SP	C	X			X																	
	1415	CV0763B-CS-SP	C	X			X																	
	1305	CV0833A-CS-SP	C	X			X																	
	1315	CV0833B-CS-SP	C	X			X	X																
	1330	CV0876A-CS-SP	C	X			X																	
	1340	CV0876B-CS-SP	C	X			X	X																
	1447	FM0168A-CS-SP	C	X			X																	
	1455	FM0168B-CS-SP	C	X			X																	
	1345	CV1156B-CS-sieve	C	X				X																
	1315	CV0833B-CS-SP-sieve	C	X				X																
	1340	CV0876B-CS-SP-sieve	C	X				X																

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 3-21-13	TIME 1500	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

RECEIVED FOR LABORATORY BY: (SIGNATURE) *[Signature]* DATE *03/22/13* TIME *0939*

CUSTODY INTACT YES  NO

CUSTODY SEAL NO.

SAVANNAH LOG NO. *680*

LABORATORY REMARKS *1-6<sup>c</sup>*

*88592*



## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88592-2  
SDG Number: 68088592-2

**Login Number: 88592**  
**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: 680-88592-2

SDG Number: 68088592-2

Login Number: 88592

List Source: TestAmerica Tampa

List Number: 1

List Creation: 03/23/13 11:04 AM

Creator: Edwards, Erricka

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?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# 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: 680-88592-2

TestAmerica Sample Delivery Group: 68088592-2

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:

4/3/2013 11:53:11 AM

Bernard Kirkland

Project Manager I

[bernard.kirkland@testamericainc.com](mailto:bernard.kirkland@testamericainc.com)

Designee for

Lisa Harvey

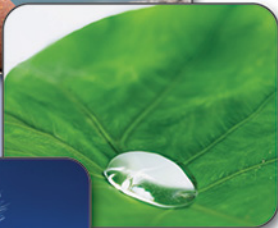
Project Manager II

[lisa.harvey@testamericainc.com](mailto:lisa.harvey@testamericainc.com)

*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.*



### LINKS

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## Case Narrative

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

TestAmerica Job ID: 680-88592-2  
SDG: 68088592-2

**Job ID: 680-88592-2**

Laboratory: TestAmerica Savannah

Narrative

### CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-88592-2**

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 03/22/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.6 C.

#### SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1323A-GS (680-88592-21), CV1323B-GS (680-88592-22), CV1323C-GS (680-88592-23), CV1323D-GS (680-88592-24), CV0763A-CS-SP (680-88592-25), CV0763B-CS-SP (680-88592-26), CV0833A-CS-SP (680-88592-27), CV0833B-CS-SP (680-88592-28), CV0876A-CS-SP (680-88592-29), CV0876B-CS-SP (680-88592-30), FM0168A-CS-SP (680-88592-31) and FM0168B-CS-SP (680-88592-32) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/26/2013 and 03/27/2013 and analyzed on 03/27/2013 and 03/28/2013.

Samples CV1323A-GS (680-88592-21)[4X], CV0833A-CS-SP (680-88592-27)[4X], CV0833B-CS-SP (680-88592-28)[4X], CV0876B-CS-SP (680-88592-30)[4X] and FM0168B-CS-SP (680-88592-32)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV1323A-GS (680-88592-21) in batch 660-136038. Benzo[b]fluoranthene and Indeno[1,2,3-cd]pyrene 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: 680-88592-2  
SDG: 68088592-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88592-21	CV1323A-GS	Solid	03/20/13 14:00	03/22/13 09:39
680-88592-22	CV1323B-GS	Solid	03/20/13 14:10	03/22/13 09:39
680-88592-23	CV1323C-GS	Solid	03/20/13 14:15	03/22/13 09:39
680-88592-24	CV1323D-GS	Solid	03/20/13 14:20	03/22/13 09:39
680-88592-25	CV0763A-CS-SP	Solid	03/20/13 14:01	03/22/13 09:39
680-88592-26	CV0763B-CS-SP	Solid	03/20/13 14:15	03/22/13 09:39
680-88592-27	CV0833A-CS-SP	Solid	03/20/13 13:05	03/22/13 09:39
680-88592-28	CV0833B-CS-SP	Solid	03/20/13 13:15	03/22/13 09:39
680-88592-29	CV0876A-CS-SP	Solid	03/20/13 13:30	03/22/13 09:39
680-88592-30	CV0876B-CS-SP	Solid	03/20/13 13:40	03/22/13 09:39
680-88592-31	FM0168A-CS-SP	Solid	03/20/13 14:47	03/22/13 09:39
680-88592-32	FM0168B-CS-SP	Solid	03/20/13 14:55	03/22/13 09:39

# Method Summary

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

TestAmerica Job ID: 680-88592-2  
SDG: 68088592-2

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: 680-88592-2  
SDG: 68088592-2

### Qualifiers

#### GC/MS Semi VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
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.

### 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: 680-88592-2  
 SDG: 68088592-2

**Client Sample ID: CV1323A-GS**

**Lab Sample ID: 680-88592-21**

Date Collected: 03/20/13 14:00

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 79.2

**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	99	ug/Kg	☼	03/27/13 11:19	03/28/13 16:27	4
Acenaphthylene	200	U	200	25	ug/Kg	☼	03/27/13 11:19	03/28/13 16:27	4
<b>Anthracene</b>	<b>41</b>	<b>J</b>	42	21	ug/Kg	☼	03/27/13 11:19	03/28/13 16:27	4
<b>Benzo[a]anthracene</b>	<b>150</b>		40	19	ug/Kg	☼	03/27/13 11:19	03/28/13 16:27	4
<b>Benzo[a]pyrene</b>	<b>120</b>	<b>F</b>	52	26	ug/Kg	☼	03/27/13 11:19	03/28/13 16:27	4
<b>Benzo[b]fluoranthene</b>	<b>230</b>	<b>F</b>	61	30	ug/Kg	☼	03/27/13 11:19	03/28/13 16:27	4
<b>Benzo[g,h,i]perylene</b>	<b>130</b>		99	22	ug/Kg	☼	03/27/13 11:19	03/28/13 16:27	4
<b>Benzo[k]fluoranthene</b>	<b>63</b>		40	18	ug/Kg	☼	03/27/13 11:19	03/28/13 16:27	4
<b>Chrysene</b>	<b>200</b>	<b>F</b>	45	22	ug/Kg	☼	03/27/13 11:19	03/28/13 16:27	4
<b>Dibenz(a,h)anthracene</b>	<b>46</b>	<b>J</b>	99	20	ug/Kg	☼	03/27/13 11:19	03/28/13 16:27	4
<b>Fluoranthene</b>	<b>160</b>		99	20	ug/Kg	☼	03/27/13 11:19	03/28/13 16:27	4
Fluorene	99	U	99	20	ug/Kg	☼	03/27/13 11:19	03/28/13 16:27	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>87</b>	<b>J</b>	99	35	ug/Kg	☼	03/27/13 11:19	03/28/13 16:27	4
<b>1-Methylnaphthalene</b>	<b>250</b>		200	22	ug/Kg	☼	03/27/13 11:19	03/28/13 16:27	4
<b>2-Methylnaphthalene</b>	<b>250</b>	<b>F</b>	200	35	ug/Kg	☼	03/27/13 11:19	03/28/13 16:27	4
<b>Naphthalene</b>	<b>190</b>	<b>J</b>	200	22	ug/Kg	☼	03/27/13 11:19	03/28/13 16:27	4
<b>Phenanthrene</b>	<b>230</b>	<b>F</b>	40	19	ug/Kg	☼	03/27/13 11:19	03/28/13 16:27	4
<b>Pyrene</b>	<b>140</b>	<b>F</b>	99	18	ug/Kg	☼	03/27/13 11:19	03/28/13 16:27	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				03/27/13 11:19	03/28/13 16:27	4

**Client Sample ID: CV1323B-GS**

**Lab Sample ID: 680-88592-22**

Date Collected: 03/20/13 14:10

Matrix: Solid

Date Received: 03/22/13 09:39

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	130	U	130	27	ug/Kg	☼	03/26/13 16:07	03/27/13 14:29	1
Acenaphthylene	53	U	53	6.7	ug/Kg	☼	03/26/13 16:07	03/27/13 14:29	1
Anthracene	11	U	11	5.6	ug/Kg	☼	03/26/13 16:07	03/27/13 14:29	1
Benzo[a]anthracene	11	U	11	5.2	ug/Kg	☼	03/26/13 16:07	03/27/13 14:29	1
Benzo[a]pyrene	14	U	14	6.9	ug/Kg	☼	03/26/13 16:07	03/27/13 14:29	1
Benzo[b]fluoranthene	16	U	16	8.1	ug/Kg	☼	03/26/13 16:07	03/27/13 14:29	1
<b>Benzo[g,h,i]perylene</b>	<b>6.8</b>	<b>J</b>	27	5.9	ug/Kg	☼	03/26/13 16:07	03/27/13 14:29	1
Benzo[k]fluoranthene	11	U	11	4.8	ug/Kg	☼	03/26/13 16:07	03/27/13 14:29	1
Chrysene	12	U	12	6.0	ug/Kg	☼	03/26/13 16:07	03/27/13 14:29	1
Dibenz(a,h)anthracene	27	U	27	5.5	ug/Kg	☼	03/26/13 16:07	03/27/13 14:29	1
Fluoranthene	27	U	27	5.3	ug/Kg	☼	03/26/13 16:07	03/27/13 14:29	1
Fluorene	27	U	27	5.5	ug/Kg	☼	03/26/13 16:07	03/27/13 14:29	1
Indeno[1,2,3-cd]pyrene	27	U	27	9.5	ug/Kg	☼	03/26/13 16:07	03/27/13 14:29	1
1-Methylnaphthalene	53	U	53	5.9	ug/Kg	☼	03/26/13 16:07	03/27/13 14:29	1
2-Methylnaphthalene	53	U	53	9.5	ug/Kg	☼	03/26/13 16:07	03/27/13 14:29	1
Naphthalene	53	U	53	5.9	ug/Kg	☼	03/26/13 16:07	03/27/13 14:29	1
<b>Phenanthrene</b>	<b>12</b>		11	5.2	ug/Kg	☼	03/26/13 16:07	03/27/13 14:29	1
<b>Pyrene</b>	<b>7.1</b>	<b>J</b>	27	4.9	ug/Kg	☼	03/26/13 16:07	03/27/13 14:29	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	85		30 - 130				03/26/13 16:07	03/27/13 14:29	1

TestAmerica Savannah



# Client Sample Results

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

TestAmerica Job ID: 680-88592-2  
 SDG: 68088592-2

**Client Sample ID: CV1323C-GS**

**Lab Sample ID: 680-88592-23**

Date Collected: 03/20/13 14:15

Matrix: Solid

Date Received: 03/22/13 09:39

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	120	U	120	25	ug/Kg	☼	03/26/13 16:07	03/27/13 14:47	1
Acenaphthylene	50	U	50	6.2	ug/Kg	☼	03/26/13 16:07	03/27/13 14:47	1
Anthracene	10	U	10	5.2	ug/Kg	☼	03/26/13 16:07	03/27/13 14:47	1
Benzo[a]anthracene	10	U	10	4.9	ug/Kg	☼	03/26/13 16:07	03/27/13 14:47	1
Benzo[a]pyrene	13	U	13	6.5	ug/Kg	☼	03/26/13 16:07	03/27/13 14:47	1
<b>Benzo[b]fluoranthene</b>	<b>9.0</b>	<b>J</b>	15	7.6	ug/Kg	☼	03/26/13 16:07	03/27/13 14:47	1
<b>Benzo[g,h,i]perylene</b>	<b>6.2</b>	<b>J</b>	25	5.5	ug/Kg	☼	03/26/13 16:07	03/27/13 14:47	1
<b>Benzo[k]fluoranthene</b>	<b>8.2</b>	<b>J</b>	10	4.5	ug/Kg	☼	03/26/13 16:07	03/27/13 14:47	1
<b>Chrysene</b>	<b>8.5</b>	<b>J</b>	11	5.6	ug/Kg	☼	03/26/13 16:07	03/27/13 14:47	1
Dibenz(a,h)anthracene	25	U	25	5.1	ug/Kg	☼	03/26/13 16:07	03/27/13 14:47	1
<b>Fluoranthene</b>	<b>11</b>	<b>J</b>	25	5.0	ug/Kg	☼	03/26/13 16:07	03/27/13 14:47	1
Fluorene	25	U	25	5.1	ug/Kg	☼	03/26/13 16:07	03/27/13 14:47	1
Indeno[1,2,3-cd]pyrene	25	U	25	8.9	ug/Kg	☼	03/26/13 16:07	03/27/13 14:47	1
<b>1-Methylnaphthalene</b>	<b>6.7</b>	<b>J</b>	50	5.5	ug/Kg	☼	03/26/13 16:07	03/27/13 14:47	1
2-Methylnaphthalene	50	U	50	8.9	ug/Kg	☼	03/26/13 16:07	03/27/13 14:47	1
<b>Naphthalene</b>	<b>9.3</b>	<b>J</b>	50	5.5	ug/Kg	☼	03/26/13 16:07	03/27/13 14:47	1
<b>Phenanthrene</b>	<b>9.9</b>	<b>J</b>	10	4.9	ug/Kg	☼	03/26/13 16:07	03/27/13 14:47	1
<b>Pyrene</b>	<b>11</b>	<b>J</b>	25	4.6	ug/Kg	☼	03/26/13 16:07	03/27/13 14:47	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	94		30 - 130				03/26/13 16:07	03/27/13 14:47	1

**Client Sample ID: CV1323D-GS**

**Lab Sample ID: 680-88592-24**

Date Collected: 03/20/13 14:20

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 57.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	180	U	180	35	ug/Kg	☼	03/26/13 16:07	03/27/13 15:05	1
<b>Acenaphthylene</b>	<b>10</b>	<b>J</b>	70	8.8	ug/Kg	☼	03/26/13 16:07	03/27/13 15:05	1
<b>Anthracene</b>	<b>33</b>		15	7.4	ug/Kg	☼	03/26/13 16:07	03/27/13 15:05	1
<b>Benzo[a]anthracene</b>	<b>120</b>		14	6.8	ug/Kg	☼	03/26/13 16:07	03/27/13 15:05	1
<b>Benzo[a]pyrene</b>	<b>120</b>		18	9.1	ug/Kg	☼	03/26/13 16:07	03/27/13 15:05	1
<b>Benzo[b]fluoranthene</b>	<b>220</b>		21	11	ug/Kg	☼	03/26/13 16:07	03/27/13 15:05	1
<b>Benzo[g,h,i]perylene</b>	<b>140</b>		35	7.7	ug/Kg	☼	03/26/13 16:07	03/27/13 15:05	1
<b>Benzo[k]fluoranthene</b>	<b>85</b>		14	6.3	ug/Kg	☼	03/26/13 16:07	03/27/13 15:05	1
<b>Chrysene</b>	<b>190</b>		16	7.9	ug/Kg	☼	03/26/13 16:07	03/27/13 15:05	1
<b>Dibenz(a,h)anthracene</b>	<b>37</b>		35	7.2	ug/Kg	☼	03/26/13 16:07	03/27/13 15:05	1
<b>Fluoranthene</b>	<b>240</b>		35	7.0	ug/Kg	☼	03/26/13 16:07	03/27/13 15:05	1
<b>Fluorene</b>	<b>19</b>	<b>J</b>	35	7.2	ug/Kg	☼	03/26/13 16:07	03/27/13 15:05	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>99</b>		35	12	ug/Kg	☼	03/26/13 16:07	03/27/13 15:05	1
<b>1-Methylnaphthalene</b>	<b>45</b>	<b>J</b>	70	7.7	ug/Kg	☼	03/26/13 16:07	03/27/13 15:05	1
<b>2-Methylnaphthalene</b>	<b>75</b>		70	12	ug/Kg	☼	03/26/13 16:07	03/27/13 15:05	1
<b>Naphthalene</b>	<b>140</b>		70	7.7	ug/Kg	☼	03/26/13 16:07	03/27/13 15:05	1
<b>Phenanthrene</b>	<b>160</b>		14	6.8	ug/Kg	☼	03/26/13 16:07	03/27/13 15:05	1
<b>Pyrene</b>	<b>270</b>		35	6.5	ug/Kg	☼	03/26/13 16:07	03/27/13 15:05	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	49		30 - 130				03/26/13 16:07	03/27/13 15:05	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88592-2  
 SDG: 68088592-2

**Client Sample ID: CV0763A-CS-SP**

**Lab Sample ID: 680-88592-25**

Date Collected: 03/20/13 14:01

Matrix: Solid

Date Received: 03/22/13 09:39

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	☼	03/26/13 16:07	03/27/13 15:24	1
Acenaphthylene	53	U	53	6.7	ug/Kg	☼	03/26/13 16:07	03/27/13 15:24	1
Anthracene	11	U	11	5.6	ug/Kg	☼	03/26/13 16:07	03/27/13 15:24	1
Benzo[a]anthracene	22		11	5.2	ug/Kg	☼	03/26/13 16:07	03/27/13 15:24	1
Benzo[a]pyrene	20		14	6.9	ug/Kg	☼	03/26/13 16:07	03/27/13 15:24	1
Benzo[b]fluoranthene	29		16	8.1	ug/Kg	☼	03/26/13 16:07	03/27/13 15:24	1
Benzo[g,h,i]perylene	20	J	27	5.9	ug/Kg	☼	03/26/13 16:07	03/27/13 15:24	1
Benzo[k]fluoranthene	12		11	4.8	ug/Kg	☼	03/26/13 16:07	03/27/13 15:24	1
Chrysene	28		12	6.0	ug/Kg	☼	03/26/13 16:07	03/27/13 15:24	1
Dibenz(a,h)anthracene	27	U	27	5.5	ug/Kg	☼	03/26/13 16:07	03/27/13 15:24	1
Fluoranthene	34		27	5.3	ug/Kg	☼	03/26/13 16:07	03/27/13 15:24	1
Fluorene	27	U	27	5.5	ug/Kg	☼	03/26/13 16:07	03/27/13 15:24	1
Indeno[1,2,3-cd]pyrene	14	J	27	9.5	ug/Kg	☼	03/26/13 16:07	03/27/13 15:24	1
1-Methylnaphthalene	30	J	53	5.9	ug/Kg	☼	03/26/13 16:07	03/27/13 15:24	1
2-Methylnaphthalene	24	J	53	9.5	ug/Kg	☼	03/26/13 16:07	03/27/13 15:24	1
Naphthalene	26	J	53	5.9	ug/Kg	☼	03/26/13 16:07	03/27/13 15:24	1
Phenanthrene	30		11	5.2	ug/Kg	☼	03/26/13 16:07	03/27/13 15:24	1
Pyrene	30		27	4.9	ug/Kg	☼	03/26/13 16:07	03/27/13 15:24	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	80		30 - 130				03/26/13 16:07	03/27/13 15:24	1

**Client Sample ID: CV0763B-CS-SP**

**Lab Sample ID: 680-88592-26**

Date Collected: 03/20/13 14:15

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 71.8

**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	☼	03/26/13 16:07	03/27/13 15:42	1
Acenaphthylene	41	J	55	6.9	ug/Kg	☼	03/26/13 16:07	03/27/13 15:42	1
Anthracene	62		12	5.8	ug/Kg	☼	03/26/13 16:07	03/27/13 15:42	1
Benzo[a]anthracene	250		11	5.4	ug/Kg	☼	03/26/13 16:07	03/27/13 15:42	1
Benzo[a]pyrene	230		14	7.2	ug/Kg	☼	03/26/13 16:07	03/27/13 15:42	1
Benzo[b]fluoranthene	390		17	8.4	ug/Kg	☼	03/26/13 16:07	03/27/13 15:42	1
Benzo[g,h,i]perylene	190		28	6.1	ug/Kg	☼	03/26/13 16:07	03/27/13 15:42	1
Benzo[k]fluoranthene	140		11	5.0	ug/Kg	☼	03/26/13 16:07	03/27/13 15:42	1
Chrysene	300		12	6.2	ug/Kg	☼	03/26/13 16:07	03/27/13 15:42	1
Dibenz(a,h)anthracene	51		28	5.7	ug/Kg	☼	03/26/13 16:07	03/27/13 15:42	1
Fluoranthene	520		28	5.5	ug/Kg	☼	03/26/13 16:07	03/27/13 15:42	1
Fluorene	22	J	28	5.7	ug/Kg	☼	03/26/13 16:07	03/27/13 15:42	1
Indeno[1,2,3-cd]pyrene	140		28	9.8	ug/Kg	☼	03/26/13 16:07	03/27/13 15:42	1
1-Methylnaphthalene	73		55	6.1	ug/Kg	☼	03/26/13 16:07	03/27/13 15:42	1
2-Methylnaphthalene	110		55	9.8	ug/Kg	☼	03/26/13 16:07	03/27/13 15:42	1
Naphthalene	120		55	6.1	ug/Kg	☼	03/26/13 16:07	03/27/13 15:42	1
Phenanthrene	440		11	5.4	ug/Kg	☼	03/26/13 16:07	03/27/13 15:42	1
Pyrene	460		28	5.1	ug/Kg	☼	03/26/13 16:07	03/27/13 15:42	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	71		30 - 130				03/26/13 16:07	03/27/13 15:42	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88592-2  
 SDG: 68088592-2

**Client Sample ID: CV0833A-CS-SP**

**Lab Sample ID: 680-88592-27**

Date Collected: 03/20/13 13:05

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 67.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	600	U	600	120	ug/Kg	☼	03/26/13 16:07	03/27/13 16:00	4
Acenaphthylene	59	J	240	30	ug/Kg	☼	03/26/13 16:07	03/27/13 16:00	4
Anthracene	80		50	25	ug/Kg	☼	03/26/13 16:07	03/27/13 16:00	4
Benzo[a]anthracene	400		48	23	ug/Kg	☼	03/26/13 16:07	03/27/13 16:00	4
Benzo[a]pyrene	360		62	31	ug/Kg	☼	03/26/13 16:07	03/27/13 16:00	4
Benzo[b]fluoranthene	540		73	37	ug/Kg	☼	03/26/13 16:07	03/27/13 16:00	4
Benzo[g,h,i]perylene	210		120	26	ug/Kg	☼	03/26/13 16:07	03/27/13 16:00	4
Benzo[k]fluoranthene	210		48	22	ug/Kg	☼	03/26/13 16:07	03/27/13 16:00	4
Chrysene	430		54	27	ug/Kg	☼	03/26/13 16:07	03/27/13 16:00	4
Dibenz(a,h)anthracene	110	J	120	25	ug/Kg	☼	03/26/13 16:07	03/27/13 16:00	4
Fluoranthene	680		120	24	ug/Kg	☼	03/26/13 16:07	03/27/13 16:00	4
Fluorene	63	J	120	25	ug/Kg	☼	03/26/13 16:07	03/27/13 16:00	4
Indeno[1,2,3-cd]pyrene	190		120	42	ug/Kg	☼	03/26/13 16:07	03/27/13 16:00	4
1-Methylnaphthalene	460		240	26	ug/Kg	☼	03/26/13 16:07	03/27/13 16:00	4
2-Methylnaphthalene	420		240	42	ug/Kg	☼	03/26/13 16:07	03/27/13 16:00	4
Naphthalene	290		240	26	ug/Kg	☼	03/26/13 16:07	03/27/13 16:00	4
Phenanthrene	690		48	23	ug/Kg	☼	03/26/13 16:07	03/27/13 16:00	4
Pyrene	590		120	22	ug/Kg	☼	03/26/13 16:07	03/27/13 16:00	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	74		30 - 130				03/26/13 16:07	03/27/13 16:00	4

**Client Sample ID: CV0833B-CS-SP**

**Lab Sample ID: 680-88592-28**

Date Collected: 03/20/13 13:15

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 76.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	J	520	100	ug/Kg	☼	03/26/13 16:07	03/27/13 16:37	4
Acenaphthylene	32	J	210	26	ug/Kg	☼	03/26/13 16:07	03/27/13 16:37	4
Anthracene	350		43	22	ug/Kg	☼	03/26/13 16:07	03/27/13 16:37	4
Benzo[a]anthracene	980		41	20	ug/Kg	☼	03/26/13 16:07	03/27/13 16:37	4
Benzo[a]pyrene	890		54	27	ug/Kg	☼	03/26/13 16:07	03/27/13 16:37	4
Benzo[b]fluoranthene	1500		63	31	ug/Kg	☼	03/26/13 16:07	03/27/13 16:37	4
Benzo[g,h,i]perylene	630		100	23	ug/Kg	☼	03/26/13 16:07	03/27/13 16:37	4
Benzo[k]fluoranthene	470		41	19	ug/Kg	☼	03/26/13 16:07	03/27/13 16:37	4
Chrysene	1100		46	23	ug/Kg	☼	03/26/13 16:07	03/27/13 16:37	4
Dibenz(a,h)anthracene	190		100	21	ug/Kg	☼	03/26/13 16:07	03/27/13 16:37	4
Fluoranthene	2100		100	21	ug/Kg	☼	03/26/13 16:07	03/27/13 16:37	4
Fluorene	110		100	21	ug/Kg	☼	03/26/13 16:07	03/27/13 16:37	4
Indeno[1,2,3-cd]pyrene	530		100	37	ug/Kg	☼	03/26/13 16:07	03/27/13 16:37	4
1-Methylnaphthalene	240		210	23	ug/Kg	☼	03/26/13 16:07	03/27/13 16:37	4
2-Methylnaphthalene	280		210	37	ug/Kg	☼	03/26/13 16:07	03/27/13 16:37	4
Naphthalene	430		210	23	ug/Kg	☼	03/26/13 16:07	03/27/13 16:37	4
Phenanthrene	1600		41	20	ug/Kg	☼	03/26/13 16:07	03/27/13 16:37	4
Pyrene	1900		100	19	ug/Kg	☼	03/26/13 16:07	03/27/13 16:37	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	80		30 - 130				03/26/13 16:07	03/27/13 16:37	4

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88592-2  
 SDG: 68088592-2

**Client Sample ID: CV0876A-CS-SP**

**Lab Sample ID: 680-88592-29**

Date Collected: 03/20/13 13:30

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 59.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	170	U	170	34	ug/Kg	☼	03/26/13 16:07	03/27/13 16:55	1
Acenaphthylene	14	J	67	8.4	ug/Kg	☼	03/26/13 16:07	03/27/13 16:55	1
Anthracene	30		14	7.1	ug/Kg	☼	03/26/13 16:07	03/27/13 16:55	1
Benzo[a]anthracene	110		13	6.6	ug/Kg	☼	03/26/13 16:07	03/27/13 16:55	1
Benzo[a]pyrene	90		18	8.8	ug/Kg	☼	03/26/13 16:07	03/27/13 16:55	1
Benzo[b]fluoranthene	140		21	10	ug/Kg	☼	03/26/13 16:07	03/27/13 16:55	1
Benzo[g,h,i]perylene	70		34	7.4	ug/Kg	☼	03/26/13 16:07	03/27/13 16:55	1
Benzo[k]fluoranthene	51		13	6.1	ug/Kg	☼	03/26/13 16:07	03/27/13 16:55	1
Chrysene	100		15	7.6	ug/Kg	☼	03/26/13 16:07	03/27/13 16:55	1
Dibenz(a,h)anthracene	24	J	34	6.9	ug/Kg	☼	03/26/13 16:07	03/27/13 16:55	1
Fluoranthene	160		34	6.7	ug/Kg	☼	03/26/13 16:07	03/27/13 16:55	1
Fluorene	18	J	34	6.9	ug/Kg	☼	03/26/13 16:07	03/27/13 16:55	1
Indeno[1,2,3-cd]pyrene	62		34	12	ug/Kg	☼	03/26/13 16:07	03/27/13 16:55	1
1-Methylnaphthalene	69		67	7.4	ug/Kg	☼	03/26/13 16:07	03/27/13 16:55	1
2-Methylnaphthalene	85		67	12	ug/Kg	☼	03/26/13 16:07	03/27/13 16:55	1
Naphthalene	77		67	7.4	ug/Kg	☼	03/26/13 16:07	03/27/13 16:55	1
Phenanthrene	130		13	6.6	ug/Kg	☼	03/26/13 16:07	03/27/13 16:55	1
Pyrene	170		34	6.2	ug/Kg	☼	03/26/13 16:07	03/27/13 16:55	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	75		30 - 130				03/26/13 16:07	03/27/13 16:55	1

**Client Sample ID: CV0876B-CS-SP**

**Lab Sample ID: 680-88592-30**

Date Collected: 03/20/13 13:40

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	450	U	450	90	ug/Kg	☼	03/26/13 16:07	03/27/13 17:13	4
Acenaphthylene	49	J	180	22	ug/Kg	☼	03/26/13 16:07	03/27/13 17:13	4
Anthracene	63		38	19	ug/Kg	☼	03/26/13 16:07	03/27/13 17:13	4
Benzo[a]anthracene	280		36	17	ug/Kg	☼	03/26/13 16:07	03/27/13 17:13	4
Benzo[a]pyrene	310		47	23	ug/Kg	☼	03/26/13 16:07	03/27/13 17:13	4
Benzo[b]fluoranthene	410		55	27	ug/Kg	☼	03/26/13 16:07	03/27/13 17:13	4
Benzo[g,h,i]perylene	220		90	20	ug/Kg	☼	03/26/13 16:07	03/27/13 17:13	4
Benzo[k]fluoranthene	160		36	16	ug/Kg	☼	03/26/13 16:07	03/27/13 17:13	4
Chrysene	530		40	20	ug/Kg	☼	03/26/13 16:07	03/27/13 17:13	4
Dibenz(a,h)anthracene	61	J	90	18	ug/Kg	☼	03/26/13 16:07	03/27/13 17:13	4
Fluoranthene	450		90	18	ug/Kg	☼	03/26/13 16:07	03/27/13 17:13	4
Fluorene	50	J	90	18	ug/Kg	☼	03/26/13 16:07	03/27/13 17:13	4
Indeno[1,2,3-cd]pyrene	170		90	32	ug/Kg	☼	03/26/13 16:07	03/27/13 17:13	4
1-Methylnaphthalene	880		180	20	ug/Kg	☼	03/26/13 16:07	03/27/13 17:13	4
2-Methylnaphthalene	1100		180	32	ug/Kg	☼	03/26/13 16:07	03/27/13 17:13	4
Naphthalene	690		180	20	ug/Kg	☼	03/26/13 16:07	03/27/13 17:13	4
Phenanthrene	670		36	17	ug/Kg	☼	03/26/13 16:07	03/27/13 17:13	4
Pyrene	490		90	17	ug/Kg	☼	03/26/13 16:07	03/27/13 17:13	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	80		30 - 130				03/26/13 16:07	03/27/13 17:13	4

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88592-2  
 SDG: 68088592-2

**Client Sample ID: FM0168A-CS-SP**

**Lab Sample ID: 680-88592-31**

Date Collected: 03/20/13 14:47

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 73.6

**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	27	ug/Kg	☼	03/26/13 16:07	03/27/13 17:31	1
<b>Acenaphthylene</b>	<b>38</b>	<b>J</b>	54	6.8	ug/Kg	☼	03/26/13 16:07	03/27/13 17:31	1
<b>Anthracene</b>	<b>55</b>		11	5.7	ug/Kg	☼	03/26/13 16:07	03/27/13 17:31	1
<b>Benzo[a]anthracene</b>	<b>270</b>		11	5.3	ug/Kg	☼	03/26/13 16:07	03/27/13 17:31	1
<b>Benzo[a]pyrene</b>	<b>260</b>		14	7.0	ug/Kg	☼	03/26/13 16:07	03/27/13 17:31	1
<b>Benzo[b]fluoranthene</b>	<b>480</b>		16	8.2	ug/Kg	☼	03/26/13 16:07	03/27/13 17:31	1
<b>Benzo[g,h,i]perylene</b>	<b>180</b>		27	5.9	ug/Kg	☼	03/26/13 16:07	03/27/13 17:31	1
<b>Benzo[k]fluoranthene</b>	<b>170</b>		11	4.9	ug/Kg	☼	03/26/13 16:07	03/27/13 17:31	1
<b>Chrysene</b>	<b>320</b>		12	6.1	ug/Kg	☼	03/26/13 16:07	03/27/13 17:31	1
<b>Dibenz(a,h)anthracene</b>	<b>60</b>		27	5.5	ug/Kg	☼	03/26/13 16:07	03/27/13 17:31	1
<b>Fluoranthene</b>	<b>610</b>		27	5.4	ug/Kg	☼	03/26/13 16:07	03/27/13 17:31	1
<b>Fluorene</b>	<b>19</b>	<b>J</b>	27	5.5	ug/Kg	☼	03/26/13 16:07	03/27/13 17:31	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>130</b>		27	9.6	ug/Kg	☼	03/26/13 16:07	03/27/13 17:31	1
<b>1-Methylnaphthalene</b>	<b>98</b>		54	5.9	ug/Kg	☼	03/26/13 16:07	03/27/13 17:31	1
<b>2-Methylnaphthalene</b>	<b>96</b>		54	9.6	ug/Kg	☼	03/26/13 16:07	03/27/13 17:31	1
<b>Naphthalene</b>	<b>80</b>		54	5.9	ug/Kg	☼	03/26/13 16:07	03/27/13 17:31	1
<b>Phenanthrene</b>	<b>420</b>		11	5.3	ug/Kg	☼	03/26/13 16:07	03/27/13 17:31	1
<b>Pyrene</b>	<b>530</b>		27	5.0	ug/Kg	☼	03/26/13 16:07	03/27/13 17:31	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	82		30 - 130				03/26/13 16:07	03/27/13 17:31	1

**Client Sample ID: FM0168B-CS-SP**

**Lab Sample ID: 680-88592-32**

Date Collected: 03/20/13 14:55

Matrix: Solid

Date Received: 03/22/13 09:39

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	☼	03/26/13 16:07	03/27/13 17:49	4
<b>Acenaphthylene</b>	<b>170</b>	<b>J</b>	200	25	ug/Kg	☼	03/26/13 16:07	03/27/13 17:49	4
<b>Anthracene</b>	<b>180</b>		42	21	ug/Kg	☼	03/26/13 16:07	03/27/13 17:49	4
<b>Benzo[a]anthracene</b>	<b>750</b>		40	19	ug/Kg	☼	03/26/13 16:07	03/27/13 17:49	4
<b>Benzo[a]pyrene</b>	<b>720</b>		52	26	ug/Kg	☼	03/26/13 16:07	03/27/13 17:49	4
<b>Benzo[b]fluoranthene</b>	<b>1300</b>		61	30	ug/Kg	☼	03/26/13 16:07	03/27/13 17:49	4
<b>Benzo[g,h,i]perylene</b>	<b>660</b>		100	22	ug/Kg	☼	03/26/13 16:07	03/27/13 17:49	4
<b>Benzo[k]fluoranthene</b>	<b>450</b>		40	18	ug/Kg	☼	03/26/13 16:07	03/27/13 17:49	4
<b>Chrysene</b>	<b>830</b>		45	22	ug/Kg	☼	03/26/13 16:07	03/27/13 17:49	4
<b>Dibenz(a,h)anthracene</b>	<b>200</b>		100	20	ug/Kg	☼	03/26/13 16:07	03/27/13 17:49	4
<b>Fluoranthene</b>	<b>1400</b>		100	20	ug/Kg	☼	03/26/13 16:07	03/27/13 17:49	4
<b>Fluorene</b>	<b>65</b>	<b>J</b>	100	20	ug/Kg	☼	03/26/13 16:07	03/27/13 17:49	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>500</b>		100	35	ug/Kg	☼	03/26/13 16:07	03/27/13 17:49	4
<b>1-Methylnaphthalene</b>	<b>150</b>	<b>J</b>	200	22	ug/Kg	☼	03/26/13 16:07	03/27/13 17:49	4
<b>2-Methylnaphthalene</b>	<b>170</b>	<b>J</b>	200	35	ug/Kg	☼	03/26/13 16:07	03/27/13 17:49	4
<b>Naphthalene</b>	<b>160</b>	<b>J</b>	200	22	ug/Kg	☼	03/26/13 16:07	03/27/13 17:49	4
<b>Phenanthrene</b>	<b>710</b>		40	19	ug/Kg	☼	03/26/13 16:07	03/27/13 17:49	4
<b>Pyrene</b>	<b>1200</b>		100	18	ug/Kg	☼	03/26/13 16:07	03/27/13 17:49	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	81		30 - 130				03/26/13 16:07	03/27/13 17:49	4

TestAmerica Savannah

# QC Sample Results

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

TestAmerica Job ID: 680-88592-2  
 SDG: 68088592-2

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

**Lab Sample ID: MB 660-135800/1-A**

**Matrix: Solid**

**Analysis Batch: 135830**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 135800**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Acenaphthylene	40	U	40	5.0	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Fluoranthene	20	U	20	4.0	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Fluorene	20	U	20	4.1	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Naphthalene	40	U	40	4.4	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Pyrene	20	U	20	3.7	ug/Kg		03/26/13 16:07	03/27/13 11:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	69		30 - 130	03/26/13 16:07	03/27/13 11:26	1

**Lab Sample ID: LCS 660-135800/2-A**

**Matrix: Solid**

**Analysis Batch: 135830**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 135800**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	670	534		ug/Kg		80	39 - 130
Acenaphthylene	670	518		ug/Kg		77	38 - 130
Anthracene	670	533		ug/Kg		80	37 - 130
Benzo[a]anthracene	670	502		ug/Kg		75	40 - 130
Benzo[a]pyrene	670	483		ug/Kg		72	49 - 130
Benzo[b]fluoranthene	670	554		ug/Kg		83	37 - 130
Benzo[g,h,i]perylene	670	493		ug/Kg		74	32 - 130
Benzo[k]fluoranthene	670	514		ug/Kg		77	32 - 130
Chrysene	670	494		ug/Kg		74	41 - 130
Dibenz(a,h)anthracene	670	525		ug/Kg		78	27 - 130
Fluoranthene	670	540		ug/Kg		81	40 - 130
Fluorene	670	558		ug/Kg		83	40 - 130
Indeno[1,2,3-cd]pyrene	670	495		ug/Kg		74	30 - 130
1-Methylnaphthalene	670	553		ug/Kg		83	31 - 130
2-Methylnaphthalene	670	503		ug/Kg		75	33 - 130
Naphthalene	670	505		ug/Kg		75	36 - 130
Phenanthrene	670	503		ug/Kg		75	42 - 130
Pyrene	670	517		ug/Kg		77	44 - 130

TestAmerica Savannah

# QC Sample Results

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

TestAmerica Job ID: 680-88592-2  
 SDG: 68088592-2

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

**Lab Sample ID: LCS 660-135800/2-A**  
**Matrix: Solid**  
**Analysis Batch: 135830**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 135800**

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	73		30 - 130

**Lab Sample ID: MB 660-135822/1-A**  
**Matrix: Solid**  
**Analysis Batch: 136038**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 135822**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	99	U	99	20	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Acenaphthylene	40	U	40	5.0	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Anthracene	8.3	U	8.3	4.2	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Benzo[a]anthracene	7.9	U	7.9	3.9	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Benzo[b]fluoranthene	12	U	12	6.0	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Benzo[k]fluoranthene	7.9	U	7.9	3.6	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Chrysene	8.9	U	8.9	4.5	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Fluoranthene	20	U	20	4.0	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Fluorene	20	U	20	4.1	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.0	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
2-Methylnaphthalene	40	U	40	7.0	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Naphthalene	40	U	40	4.4	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Phenanthrene	7.9	U	7.9	3.9	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Pyrene	20	U	20	3.7	ug/Kg		03/27/13 11:19	03/28/13 15:42	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o</i> -Terphenyl	65		30 - 130	03/27/13 11:19	03/28/13 15:42	1

**Lab Sample ID: LCS 660-135822/2-A**  
**Matrix: Solid**  
**Analysis Batch: 136038**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 135822**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Acenaphthene	670	455		ug/Kg		68	39 - 130
Acenaphthylene	670	472		ug/Kg		70	38 - 130
Anthracene	670	464		ug/Kg		69	37 - 130
Benzo[a]anthracene	670	520		ug/Kg		78	40 - 130
Benzo[a]pyrene	670	459		ug/Kg		69	49 - 130
Benzo[b]fluoranthene	670	503		ug/Kg		75	37 - 130
Benzo[g,h,i]perylene	670	486		ug/Kg		73	32 - 130
Benzo[k]fluoranthene	670	484		ug/Kg		72	32 - 130
Chrysene	670	464		ug/Kg		69	41 - 130
Dibenz(a,h)anthracene	670	527		ug/Kg		79	27 - 130
Fluoranthene	670	488		ug/Kg		73	40 - 130
Fluorene	670	491		ug/Kg		73	40 - 130
Indeno[1,2,3-cd]pyrene	670	469		ug/Kg		70	30 - 130
1-Methylnaphthalene	670	512		ug/Kg		76	31 - 130

TestAmerica Savannah

# QC Sample Results

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

TestAmerica Job ID: 680-88592-2  
 SDG: 68088592-2

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

**Lab Sample ID: LCS 660-135822/2-A**

**Matrix: Solid**

**Analysis Batch: 136038**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 135822**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	670	499		ug/Kg		75	33 - 130
Naphthalene	670	470		ug/Kg		70	36 - 130
Phenanthrene	670	461		ug/Kg		69	42 - 130
Pyrene	670	464		ug/Kg		69	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	70		30 - 130

**Lab Sample ID: 680-88592-21 MS**

**Matrix: Solid**

**Analysis Batch: 136038**

**Client Sample ID: CV1323A-GS**

**Prep Type: Total/NA**

**Prep Batch: 135822**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	500	U	856	465	J	ug/Kg	☼	54	39 - 130
Acenaphthylene	200	U	856	493		ug/Kg	☼	58	38 - 130
Anthracene	41	J	856	478		ug/Kg	☼	51	37 - 130
Benzo[a]anthracene	150		856	561		ug/Kg	☼	48	40 - 130
Benzo[a]pyrene	120	F	856	467	F	ug/Kg	☼	41	49 - 130
Benzo[b]fluoranthene	230	F	856	511	F	ug/Kg	☼	33	37 - 130
Benzo[g,h,i]perylene	130		856	485		ug/Kg	☼	41	32 - 130
Benzo[k]fluoranthene	63		856	473		ug/Kg	☼	48	32 - 130
Chrysene	200	F	856	484	F	ug/Kg	☼	33	41 - 130
Dibenz(a,h)anthracene	46	J	856	525		ug/Kg	☼	56	27 - 130
Fluoranthene	160		856	509		ug/Kg	☼	41	40 - 130
Fluorene	99	U	856	502		ug/Kg	☼	59	40 - 130
Indeno[1,2,3-cd]pyrene	87	J	856	474		ug/Kg	☼	45	30 - 130
1-Methylnaphthalene	250		856	535		ug/Kg	☼	33	31 - 130
2-Methylnaphthalene	250	F	856	520	F	ug/Kg	☼	31	33 - 130
Naphthalene	190	J	856	507		ug/Kg	☼	37	36 - 130
Phenanthrene	230	F	856	480	F	ug/Kg	☼	30	42 - 130
Pyrene	140	F	856	477	F	ug/Kg	☼	39	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
<i>o</i> -Terphenyl	57		30 - 130

**Lab Sample ID: 680-88592-21 MSD**

**Matrix: Solid**

**Analysis Batch: 136038**

**Client Sample ID: CV1323A-GS**

**Prep Type: Total/NA**

**Prep Batch: 135822**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Acenaphthene	500	U	869	536		ug/Kg	☼	62	39 - 130	14	40
Acenaphthylene	200	U	869	543		ug/Kg	☼	63	38 - 130	10	40
Anthracene	41	J	869	550		ug/Kg	☼	59	37 - 130	14	40
Benzo[a]anthracene	150		869	633		ug/Kg	☼	56	40 - 130	12	40
Benzo[a]pyrene	120	F	869	535	F	ug/Kg	☼	48	49 - 130	13	40
Benzo[b]fluoranthene	230	F	869	591		ug/Kg	☼	42	37 - 130	15	40
Benzo[g,h,i]perylene	130		869	564		ug/Kg	☼	50	32 - 130	15	40
Benzo[k]fluoranthene	63		869	571		ug/Kg	☼	58	32 - 130	19	40

TestAmerica Savannah



# QC Sample Results

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

TestAmerica Job ID: 680-88592-2  
 SDG: 68088592-2

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 680-88592-21 MSD

Matrix: Solid

Analysis Batch: 136038

Client Sample ID: CV1323A-GS

Prep Type: Total/NA

Prep Batch: 135822

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chrysene	200	F	869	558		ug/Kg	*	41	41 - 130	14	40
Dibenz(a,h)an hracene	46	J	869	604		ug/Kg	*	64	27 - 130	14	40
Fluoranthene	160		869	571		ug/Kg	*	47	40 - 130	12	40
Fluorene	99	U	869	559		ug/Kg	*	64	40 - 130	11	40
Indeno[1,2,3-cd]pyrene	87	J	869	527		ug/Kg	*	51	30 - 130	11	40
1-Methylnaphthalene	250		869	602		ug/Kg	*	40	31 - 130	12	40
2-Methylnaphthalene	250	F	869	580		ug/Kg	*	37	33 - 130	11	40
Naphthalene	190	J	869	552		ug/Kg	*	42	36 - 130	9	40
Phenanthrene	230	F	869	553	F	ug/Kg	*	37	42 - 130	14	40
Pyrene	140	F	869	552		ug/Kg	*	47	44 - 130	15	40
<b>MSD MSD</b>											
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
<i>o</i> -Terphenyl	63		30 - 130								

# QC Association Summary

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

TestAmerica Job ID: 680-88592-2  
 SDG: 68088592-2

## GC/MS Semi VOA

### Prep Batch: 135800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88592-22	CV1323B-GS	Total/NA	Solid	3546	
680-88592-23	CV1323C-GS	Total/NA	Solid	3546	
680-88592-24	CV1323D-GS	Total/NA	Solid	3546	
680-88592-25	CV0763A-CS-SP	Total/NA	Solid	3546	
680-88592-26	CV0763B-CS-SP	Total/NA	Solid	3546	
680-88592-27	CV0833A-CS-SP	Total/NA	Solid	3546	
680-88592-28	CV0833B-CS-SP	Total/NA	Solid	3546	
680-88592-29	CV0876A-CS-SP	Total/NA	Solid	3546	
680-88592-30	CV0876B-CS-SP	Total/NA	Solid	3546	
680-88592-31	FM0168A-CS-SP	Total/NA	Solid	3546	
680-88592-32	FM0168B-CS-SP	Total/NA	Solid	3546	
LCS 660-135800/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135800/1-A	Method Blank	Total/NA	Solid	3546	

### Prep Batch: 135822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88592-21	CV1323A-GS	Total/NA	Solid	3546	
680-88592-21 MS	CV1323A-GS	Total/NA	Solid	3546	
680-88592-21 MSD	CV1323A-GS	Total/NA	Solid	3546	
LCS 660-135822/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135822/1-A	Method Blank	Total/NA	Solid	3546	

### Analysis Batch: 135830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88592-22	CV1323B-GS	Total/NA	Solid	8270C LL	135800
680-88592-23	CV1323C-GS	Total/NA	Solid	8270C LL	135800
680-88592-24	CV1323D-GS	Total/NA	Solid	8270C LL	135800
680-88592-25	CV0763A-CS-SP	Total/NA	Solid	8270C LL	135800
680-88592-26	CV0763B-CS-SP	Total/NA	Solid	8270C LL	135800
680-88592-27	CV0833A-CS-SP	Total/NA	Solid	8270C LL	135800
680-88592-28	CV0833B-CS-SP	Total/NA	Solid	8270C LL	135800
680-88592-29	CV0876A-CS-SP	Total/NA	Solid	8270C LL	135800
680-88592-30	CV0876B-CS-SP	Total/NA	Solid	8270C LL	135800
680-88592-31	FM0168A-CS-SP	Total/NA	Solid	8270C LL	135800
680-88592-32	FM0168B-CS-SP	Total/NA	Solid	8270C LL	135800
LCS 660-135800/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135800
MB 660-135800/1-A	Method Blank	Total/NA	Solid	8270C LL	135800

### Analysis Batch: 136038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88592-21	CV1323A-GS	Total/NA	Solid	8270C LL	135822
680-88592-21 MS	CV1323A-GS	Total/NA	Solid	8270C LL	135822
680-88592-21 MSD	CV1323A-GS	Total/NA	Solid	8270C LL	135822
LCS 660-135822/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135822
MB 660-135822/1-A	Method Blank	Total/NA	Solid	8270C LL	135822

# QC Association Summary

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

TestAmerica Job ID: 680-88592-2  
SDG: 68088592-2

## General Chemistry

### Analysis Batch: 135737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88592-21	CV1323A-GS	Total/NA	Solid	Moisture	
680-88592-21 MS	CV1323A-GS	Total/NA	Solid	Moisture	
680-88592-21 MSD	CV1323A-GS	Total/NA	Solid	Moisture	
680-88592-22	CV1323B-GS	Total/NA	Solid	Moisture	
680-88592-23	CV1323C-GS	Total/NA	Solid	Moisture	
680-88592-24	CV1323D-GS	Total/NA	Solid	Moisture	
680-88592-25	CV0763A-CS-SP	Total/NA	Solid	Moisture	
680-88592-26	CV0763B-CS-SP	Total/NA	Solid	Moisture	
680-88592-27	CV0833A-CS-SP	Total/NA	Solid	Moisture	
680-88592-28	CV0833B-CS-SP	Total/NA	Solid	Moisture	
680-88592-29	CV0876A-CS-SP	Total/NA	Solid	Moisture	
680-88592-30	CV0876B-CS-SP	Total/NA	Solid	Moisture	
680-88592-31	FM0168A-CS-SP	Total/NA	Solid	Moisture	
680-88592-32	FM0168B-CS-SP	Total/NA	Solid	Moisture	
MB 660-135737/1	Method Blank	Total/NA	Solid	Moisture	

## Lab Chronicle

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

TestAmerica Job ID: 680-88592-2  
 SDG: 68088592-2

### Client Sample ID: CV1323A-GS

Lab Sample ID: 680-88592-21

Date Collected: 03/20/13 14:00

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135822	03/27/13 11:19	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136038	03/28/13 16:27	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	AG	TAL TAM

### Client Sample ID: CV1323B-GS

Lab Sample ID: 680-88592-22

Date Collected: 03/20/13 14:10

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 73.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135800	03/26/13 16:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135830	03/27/13 14:29	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	AG	TAL TAM

### Client Sample ID: CV1323C-GS

Lab Sample ID: 680-88592-23

Date Collected: 03/20/13 14:15

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135800	03/26/13 16:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135830	03/27/13 14:47	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	AG	TAL TAM

### Client Sample ID: CV1323D-GS

Lab Sample ID: 680-88592-24

Date Collected: 03/20/13 14:20

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 57.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135800	03/26/13 16:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135830	03/27/13 15:05	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	AG	TAL TAM

### Client Sample ID: CV0763A-CS-SP

Lab Sample ID: 680-88592-25

Date Collected: 03/20/13 14:01

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 74.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135800	03/26/13 16:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135830	03/27/13 15:24	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	AG	TAL TAM

# Lab Chronicle

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

TestAmerica Job ID: 680-88592-2  
 SDG: 68088592-2

## Client Sample ID: CV0763B-CS-SP

Lab Sample ID: 680-88592-26

Date Collected: 03/20/13 14:15

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 71.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135800	03/26/13 16:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135830	03/27/13 15:42	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	AG	TAL TAM

## Client Sample ID: CV0833A-CS-SP

Lab Sample ID: 680-88592-27

Date Collected: 03/20/13 13:05

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 67.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135800	03/26/13 16:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135830	03/27/13 16:00	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	AG	TAL TAM

## Client Sample ID: CV0833B-CS-SP

Lab Sample ID: 680-88592-28

Date Collected: 03/20/13 13:15

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 76.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135800	03/26/13 16:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135830	03/27/13 16:37	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	AG	TAL TAM

## Client Sample ID: CV0876A-CS-SP

Lab Sample ID: 680-88592-29

Date Collected: 03/20/13 13:30

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 59.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135800	03/26/13 16:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135830	03/27/13 16:55	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	AG	TAL TAM

## Client Sample ID: CV0876B-CS-SP

Lab Sample ID: 680-88592-30

Date Collected: 03/20/13 13:40

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135800	03/26/13 16:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135830	03/27/13 17:13	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	AG	TAL TAM

# Lab Chronicle

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

TestAmerica Job ID: 680-88592-2  
SDG: 68088592-2

## Client Sample ID: FM0168A-CS-SP

Lab Sample ID: 680-88592-31

Date Collected: 03/20/13 14:47

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 73.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135800	03/26/13 16:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135830	03/27/13 17:31	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	AG	TAL TAM

## Client Sample ID: FM0168B-CS-SP

Lab Sample ID: 680-88592-32

Date Collected: 03/20/13 14:55

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135800	03/26/13 16:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135830	03/27/13 17:49	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	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

Phone:  
Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>2</i> OF <i>3</i>
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TAL (LAB) PROJECT MANAGER <i>Lisa Harvey</i>	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	<i>LL PAH</i> <i>PCPA &amp; Metals</i>	STANDARD REPORT DELIVERY DATE DUE _____	
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX				EXPEDITED REPORT DELIVERY (SURCHARGE) DATE DUE _____
CLIENT NAME	CLIENT E-MAIL					NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

(b) (6)  
(b) (6)

CLIENT ADDRESS	COMPANY CONTRACTING THIS WORK (if applicable)	PRESERVATIVE
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DATE	TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
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Page 21 of 25

DATE	TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3-20-13	<del>0815</del> <del>0810</del>	CV0701A-CS	C	X			X		
	1220	CV0715A-CS	C	X					
	<del>1320</del>	CV0715A-CSD	C	X					
	<del>1300</del>	CV0862A-CS	C	X					
	1315	CV0862B-CS	C	X					
	1325	CV1156A-CS	C	X					
	1345	CV1156B-CS	C	X			X		
	1450	CV1240A-CS	C	X					
	1400	CV1323A-GS	G	X					
	1410	CV1323B-GS	G	X					
	1415	CV1323C-GS	G	X					
	1420	CV1323D-GS	G	X					

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 3-21-13	TIME 1500	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

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE 03/21/13	TIME 0930	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>88592</i>	LABORATORY REMARKS <i>1.6C</i>
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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:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>3</i>	OF <i>3</i>
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TAL (LAB) PROJECT MANAGER <i>Lisa Harvey</i>	P.O. NUMBER	CONTRACT NO.	CLIENT FAX	STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE
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CLIENT NAME <i>(b) (6)</i>	CLIENT E-MAIL	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE
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CLIENT ADDRESS <i>(b) (6)</i>	COMPANY CONTRACTING THIS WORK (if applicable)	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:
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COMPOSITE (C) OR GRAB (G) INDICATE	ACQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAN	RECHAS Metals	PRESERVATIVE
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SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	ACQUEOUS (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	
<i>3-20-13</i>	<i>1401</i>	<i>CV0763A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>1415</i>	<i>CV0763B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>1305</i>	<i>CV0833A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>1315</i>	<i>CV0833B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>	<i>X</i>													
	<i>1330</i>	<i>CV0876A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>1340</i>	<i>CV0876B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>	<i>X</i>													
	<i>1447</i>	<i>FM0168A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>1455</i>	<i>FM0168B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>1345</i>	<i>CV1156B-CS-sieve</i>	<i>C</i>	<i>X</i>																<i>X</i>	
	<i>1315</i>	<i>CV0833B-CS-SP-sieve</i>	<i>C</i>	<i>X</i>																<i>X</i>	
	<i>1340</i>	<i>CV0876B-CS-SP-sieve</i>	<i>C</i>	<i>X</i>																<i>X</i>	

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>3-21-13</i>	TIME <i>1500</i>	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

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>03/20/13</i>	TIME <i>0939</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680</i> <i>88592</i>	LABORATORY REMARKS <i>1-6<sup>c</sup></i>
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## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88592-2

SDG Number: 68088592-2

**Login Number: 88592**

**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 leg ble 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: 680-88592-2

SDG Number: 68088592-2

**Login Number: 88592**

**List Number: 1**

**Creator: Edwards, Erricka**

**List Source: TestAmerica Tampa**

**List Creation: 03/23/13 11:04 AM**

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.	True	
Samples are received within Holding Time.	True	
Sample containers have leg ble labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Certification Summary

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

TestAmerica Job ID: 680-88592-2  
 SDG: 68088592-2

### 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
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
Guam	State Program	9	09-005r	04-17-13
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
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
Georgia	State Program	4	905	06-30-13
USDA	Federal		P330-11-00177	04-20-14