

**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: Karen Marie Trujillo  
 Concurrence<sup>1</sup>: Sarah Choyke

Project No: 15268508.20000  
 Job ID.: 680-88420-1  
 Associated Samples: Refer to Attachment A (Sample Summary)  
 Date(s) Collected: 03/14/2013  
 Date: 04/03/2013  
 Date: 04/10/13

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?			✓		

<sup>1</sup> Independent technical reviewer  
 URS Group, Inc.  
 Page 1 of 5

## 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 was not collected during the week of 3/11/13. Blank contamination will be evaluated based on method blank results.	
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?	✓			<ul style="list-style-type: none"> <li>• HP0035A-CSD (680-88420-5) is a field duplicate of HP0035A-CS (680-88420-4).</li> <li>• FM0004A-CSD (680-88420-16) is a field duplicate of FM0004A-CS (680-88420-15).</li> </ul>	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to <b>Attachment B</b> (Field Duplicate Evaluation)	J
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: 03/15/2013, instrument BSMA5973</li> <li>• ICV: 03/15/13 @ 14:39</li> <li>• CCV: 03/21/13 @ 16:57</li> <li>• CCV: 03/26/13 @ 11:28</li> <li>• Initial Calibration: 02/22/2013, instrument BSMC5973</li> <li>• ICV: 02/22/13 @ 14:06</li> <li>• CCV: 03/27/13 @ 10:35</li> <li>• Initial Calibration: 02/22/2013, instrument BSMD5973</li> <li>• ICV: 02/22/13 @ 14:51</li> <li>• CCV: 03/26/13 @ 10:32</li> </ul>		

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
19. Were calibration results within laboratory/project specifications? <ul style="list-style-type: none"> <li>• ICAL (Criteria: <math>\leq 15</math> mean %RSD with no individual CCC %RSD <math>\leq 30</math> (<math>\leq 50\%</math> for poor performers), OR <math>r \geq 0.995</math>, OR <math>r^2 \geq 0.99</math>, and RRF <math>\geq 0.050</math> (<math>\geq 0.010</math> for poor performers)):               <ul style="list-style-type: none"> <li>○ If %RSD <math>&gt; 15</math> (<math>&gt; 50\%</math> for poor performers), or <math>r &lt; 0.995</math>, or <math>r^2 &lt; 0.995</math>, then J-flag positive results and UJ-flag non-detects</li> <li>○ If mean RRF <math>&lt; 0.050</math> (<math>&lt; 0.010</math> 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 RF <math>\geq 0.050</math> (<math>\geq 0.010</math> for poor performers)):               <ul style="list-style-type: none"> <li>○ If %D <math>&gt; 20</math> (<math>&gt; 50\%</math> for poor performers), then J-flag positive results and UJ-flag non-detects</li> <li>○ If RF <math>&lt; 0.050</math> (<math>&lt; 0.010</math> for poor performers), then UJ-flag non-detected semivolatile target compounds</li> </ul> </li> </ul>		✓		<ul style="list-style-type: none"> <li>• ICV of 03/15/13 @ 14:39, instrument BSMA5973:               <ul style="list-style-type: none"> <li>○ Benzo[a]pyrene @ -27.5 %D (Lab: <math>\leq 35</math>, Project: <math>\leq 20</math>). 72.5%R</li> <li>○ Benzo[g,h,i]perylene @ -21.4 %D (Lab: <math>\leq 35</math>, Project: <math>\leq 20</math>). 78.5%R</li> </ul>               A negative bias is indicated by the CCV percent difference and both analytes were detected in associated samples<sup>2</sup>; therefore, J-flag detected benzo[a]pyrene and benzo[g,h,i]perylene results.             </li> <li>• ICV of 02/22/13 @ 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>). 79.5%R</li> <li>○ Benzo[a]pyrene @ -21.7 %D (Lab: <math>\leq 35</math>, Project: <math>\leq 20</math>). 78.5%R</li> </ul>               A negative bias is indicated by the CCV percent difference and both analytes were detected in associated samples<sup>3</sup>; therefore, J-flag detected chrysene and benzo[a]pyrene results.             </li> </ul>	J
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 > Upper Control Limit (UCL) and J/R-flag results when %R < Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			<ul style="list-style-type: none"> <li>• Prep Batch 135631: 680-88420-12 (CV1151A-CS-SP), MS/MSD</li> <li>• Prep Batch 135608: 680-88420-26 (Batch sample), MS/MSD</li> </ul>	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples are evaluated.</i>		✓		CV1151A-CS-SP (680-88420-12): <ul style="list-style-type: none"> <li>• Fluoranthene @ 167 and 74 %R (40-130). Qualification of data not required<sup>4</sup>.</li> </ul>	

<sup>2</sup> Associated sample(s): 680-88420-1 through -16, -18, and -19

<sup>3</sup> Associated sample(s): 680-88420-17 and -20

<sup>4</sup> The recovery of either the MS or MSD met control limits.

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<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 %R&lt;10: J and R Flag positive and ND results, respectively</li> <li>MS and MSD %R &gt;10 and &lt;LCL: J-Flag positive and UJ-flag non-detect results</li> <li>MS and MSD R% &gt;UCL (or 140): J-Flag positive results</li> </ul>				<ul style="list-style-type: none"> <li>Pyrene @ 158 and 92 %R (44-130). Qualification of data not required<sup>4</sup>.</li> </ul>	
<p>26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples 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>CV1151A-CS-SP (680-88420-12):</p> <ul style="list-style-type: none"> <li>Benzo[a]pyrene @ 45%RPD (≤40). J-Flag</li> <li>Fluoranthene @ 55%RPD (≤40). J-Flag</li> </ul>	J
<p>27. Were surrogate recoveries within lab/project specifications?</p> <ul style="list-style-type: none"> <li>If %R for 1 Acid or BN surrogates &lt;10, then J-flag positive and R-flag non-detect associated sample results</li> <li>If 2 or more Acid or BN %R &gt;UCL, then J-flag positive results</li> <li>If 2 or more Acid or BN %R ≥10%, but &lt;LCL, then J-flag positive results and UJ-flag non-detect results</li> <li>If 2 or more Acid or BN , with 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</li> </ul>	✓				



**Data Validation Checklist (Continued)**

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

**DV Flag Definitions:**

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

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

# Sample Summary

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

TestAmerica Job ID: 680-88420-1  
SDG: 68088420-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88420-1	CV0200A-CS-SP	Solid	03/14/13 09:01	03/16/13 09:20
680-88420-2	CV0200B-CS-SP	Solid	03/14/13 09:16	03/16/13 09:20
680-88420-3	FM0347A-CS	Solid	03/14/13 08:40	03/16/13 09:20
680-88420-4	HP0035A-CS	Solid	03/14/13 09:45	03/16/13 09:20
680-88420-5	HP0035A-CSD	Solid	03/14/13 09:45	03/16/13 09:20
680-88420-6	CV0951A-CS	Solid	03/14/13 10:10	03/16/13 09:20
680-88420-7	CV0618A-CS	Solid	03/14/13 10:45	03/16/13 09:20
680-88420-8	CV0843A-CS-SP	Solid	03/14/13 10:03	03/16/13 09:20
680-88420-9	CV0843B-CS-SP	Solid	03/14/13 10:11	03/16/13 09:20
680-88420-10	CV0826A-CS-SP	Solid	03/14/13 10:40	03/16/13 09:20
680-88420-11	CV0826B-CS-SP	Solid	03/14/13 10:51	03/16/13 09:20
680-88420-12	CV1151A-CS-SP	Solid	03/14/13 11:19	03/16/13 09:20
680-88420-13	CV1151B-CS-SP	Solid	03/14/13 11:27	03/16/13 09:20
680-88420-14	CV0137A-CS	Solid	03/14/13 12:20	03/16/13 09:20
680-88420-15	FM0004A-CS	Solid	03/14/13 12:50	03/16/13 09:20
680-88420-16	FM0004A-CSD	Solid	03/14/13 12:50	03/16/13 09:20
680-88420-17	FM0004B-CS	Solid	03/14/13 13:00	03/16/13 09:20
680-88420-18	FM0004C-CS	Solid	03/14/13 13:10	03/16/13 09:20
680-88420-19	CV1035A-CS	Solid	03/14/13 14:05	03/16/13 09:20
680-88420-20	CV1035B-CS	Solid	03/14/13 14:15	03/16/13 09:20

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

Evaluation of Field Duplicate Results

Analyte	HP0035A-CS (680-88420-4)		HP0035A-CSD (680-88420-5)		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action	
Acenaphthylene	27	J	55		53	µg/kg	270	NA	27	108	None, absolute difference ≤ 2x Avg RL	
Anthracene	23		12	16	11	µg/kg	57.5	NA	7	23	None, absolute difference ≤ 2x Avg RL	
Benzo(a)anthracene	88	11	47	11	µg/kg	55	NA	41	22	J/UJ-flag, absolute difference > 2x Avg RL		
Benzo(a)pyrene	37	14	24	14	µg/kg	70	NA	13	28	None, absolute difference ≤ 2x Avg RL		
Benzo(b)fluoranthene	170	17	150	16	µg/kg	82.5	13	NA	NA	None, RPD ≤ 50%		
Benzo(g,h,i)perylene	39	28	25	J	27	µg/kg	137.5	NA	14	55	None, absolute difference ≤ 2x Avg RL	
Benzo(k)fluoranthene	18	11	12	11	µg/kg	55	NA	6	22	None, absolute difference ≤ 2x Avg RL		
Chrysene	81	12	87	12	µg/kg	60	7	NA	NA	None, RPD ≤ 50%		
Dibenzo(a,h)anthracene	17	J	28	14	J	27	µg/kg	137.5	NA	3	55	None, absolute difference ≤ 2x Avg RL
Fluoranthene	73	28	60	27	µg/kg	137.5	NA	13	55	None, absolute difference ≤ 2x Avg RL		
Indeno(1,2,3-cd)pyrene	32	28	23	J	27	µg/kg	137.5	NA	9	55	None, absolute difference ≤ 2x Avg RL	
1-Methylnaphthalene	25	J	55	23	J	53	µg/kg	270	NA	2	108	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	120	55	110	53	µg/kg	270	NA	10	108	None, absolute difference ≤ 2x Avg RL		
Naphthalene	69	55	66	53	µg/kg	270	NA	3	108	None, absolute difference ≤ 2x Avg RL		
Phenanthrene	82	11	70	11	µg/kg	55	16	NA	NA	None, RPD ≤ 50%		
Pyrene	84	28	47	27	µg/kg	137.5	NA	37	55	None, absolute difference ≤ 2x Avg RL		

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

Analyte	FM0004A-CS (680-88420-15)		FM0004A-CSD (680-88420-16)		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action	
Acenaphthene	55	J	130	48	J	120	µg/kg	625	NA	7	250	None, absolute difference ≤ 2x Avg RL
Acenaphthylene	69	50	65	49	µg/kg	247.5	NA	4	99	None, absolute difference ≤ 2x Avg RL		
Anthracene	100	11	68	10	µg/kg	52.5	38	NA	NA	None, RPD ≤ 50%		
Benzo(a)anthracene	530	10	360	9.9	µg/kg	49.75	38	NA	NA	None, RPD ≤ 50%		
Benzo(a)pyrene	380	13	310	13	µg/kg	65	20	NA	NA	None, RPD ≤ 50%		
Benzo(b)fluoranthene	720	15	580	15	µg/kg	75	22	NA	NA	None, RPD ≤ 50%		
Benzo(g,h,i)perylene	310	25	260	25	µg/kg	125	18	NA	NA	None, RPD ≤ 50%		
Benzo(k)fluoranthene	280	10	160	9.9	µg/kg	49.75	55	NA	NA	J/UJ-flag, RPD > 50%		
Chrysene	570	11	430	11	µg/kg	55	28	NA	NA	None, RPD ≤ 50%		
Dibenzo(a,h)anthracene	110	25	59	25	µg/kg	125	NA	51	50	J/UJ-flag, absolute difference > 2x Avg RL		
Fluoranthene	1100	25	710	25	µg/kg	125	43	NA	NA	None, RPD ≤ 50%		
Fluorene	40	25	25	µg/kg	125	NA	40	50	None, absolute difference ≤ 2x Avg RL			
Indeno(1,2,3-cd)pyrene	300	25	240	25	µg/kg	125	22	NA	NA	None, RPD ≤ 50%		
1-Methylnaphthalene	35	J	50	32	J	49	µg/kg	247.5	NA	3	99	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	110	50	100	49	µg/kg	247.5	NA	10	99	None, absolute difference ≤ 2x Avg RL		
Naphthalene	52	50	47	J	49	µg/kg	247.5	NA	5	99	None, absolute difference ≤ 2x Avg RL	
Phenanthrene	400	10	270	9.9	µg/kg	49.75	39	NA	NA	None, RPD ≤ 50%		
Pyrene	940	25	610	25	µg/kg	125	43	NA	NA	None, RPD ≤ 50%		

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

- µg/kg - micrograms per kilogram
- J - Estimated value
- NA - Not applicable
- RL - Reporting limit
- RPD - Relative percent difference
- UJ - Not detected and the limit is estimated

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



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

## Case Narrative

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

TestAmerica Job ID: 680-88420-1  
SDG: 68088420-1

**Job ID: 680-88420-1**

**Laboratory: TestAmerica Savannah**

Narrative

### CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-88420-1**

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

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

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

#### RECEIPT

The samples were received on 03/16/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.4 C.

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

Samples CV0200A-CS-SP (680-88420-1), CV0200B-CS-SP (680-88420-2), FM0347A-CS (680-88420-3), HP0035A-CS (680-88420-4), HP0035A-CSD (680-88420-5), CV0951A-CS (680-88420-6), CV0618A-CS (680-88420-7), CV0843A-CS-SP (680-88420-8), CV0843B-CS-SP (680-88420-9), CV0826A-CS-SP (680-88420-10), CV0826B-CS-SP (680-88420-11), CV1151A-CS-SP (680-88420-12), CV1151B-CS-SP (680-88420-13), CV0137A-CS (680-88420-14), FM0004A-CS (680-88420-15), FM0004A-CSD (680-88420-16), FM0004B-CS (680-88420-17), FM0004C-CS (680-88420-18), CV1035A-CS (680-88420-19) and CV1035B-CS (680-88420-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/21/2013 and analyzed on 03/21/2013, 03/26/2013 and 03/27/2013.

Samples CV0200A-CS-SP (680-88420-1)[4X], FM0347A-CS (680-88420-3)[4X], CV0951A-CS (680-88420-6)[4X], CV0843B-CS-SP (680-88420-9)[4X] and CV1035B-CS (680-88420-20)[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 CV1151A-CS-SP (680-88420-12) in batch 660-135830.

Several also exceeded the rpd limit for the MS/MSD in batch 660-135850.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

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

# Client Sample Results

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

**Client Sample ID: CV0200A-CS-SP**

**Lab Sample ID: 680-88420-1**

Date Collected: 03/14/13 09:01

Matrix: Solid

Date Received: 03/16/13 09:20

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	540	U	540	110	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
Acenaphthylene	220	U	220	27	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
Anthracene	45	U	45	23	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>Benzo[a]anthracene</b>	<b>200</b>		43	21	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>Benzo[a]pyrene</b>	<b>130</b>		56	28	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>Benzo[b]fluoranthene</b>	<b>600</b>		66	33	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>Benzo[g,h,i]perylene</b>	<b>130</b>		110	24	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>Benzo[k]fluoranthene</b>	<b>120</b>		43	19	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>Chrysene</b>	<b>240</b>		48	24	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>Dibenz(a,h)anthracene</b>	<b>51</b>	J	110	22	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>Fluoranthene</b>	<b>180</b>		110	22	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
Fluorene	110	U	110	22	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>110</b>		110	38	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>1-Methylnaphthalene</b>	<b>48</b>	J	220	24	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>2-Methylnaphthalene</b>	<b>390</b>		220	38	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>Naphthalene</b>	<b>58</b>	J	220	24	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>Phenanthrene</b>	<b>120</b>		43	21	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>Pyrene</b>	<b>190</b>		110	20	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	54		30 - 130	03/21/13 08:38	03/21/13 20:14	4

**Client Sample ID: CV0200B-CS-SP**

**Lab Sample ID: 680-88420-2**

Date Collected: 03/14/13 09:16

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 73.2

**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	☼	03/21/13 08:38	03/21/13 20:29	1
Acenaphthylene	54	U	54	6.8	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>Anthracene</b>	<b>25</b>		11	5.7	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>Benzo[a]anthracene</b>	<b>100</b>		11	5.3	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>Benzo[a]pyrene</b>	<b>56</b>		14	7.0	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>Benzo[b]fluoranthene</b>	<b>220</b>		16	8.2	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>Benzo[g,h,i]perylene</b>	<b>71</b>		27	5.9	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>Benzo[k]fluoranthene</b>	<b>31</b>		11	4.9	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>Chrysene</b>	<b>140</b>		12	6.1	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>Dibenz(a,h)anthracene</b>	<b>29</b>		27	5.5	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>Fluoranthene</b>	<b>110</b>		27	5.4	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
Fluorene	27	U	27	5.5	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>61</b>		27	9.6	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>1-Methylnaphthalene</b>	<b>42</b>	J	54	5.9	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>2-Methylnaphthalene</b>	<b>140</b>		54	9.6	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>Naphthalene</b>	<b>53</b>	J	54	5.9	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>Phenanthrene</b>	<b>120</b>		11	5.3	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>Pyrene</b>	<b>110</b>		27	5.0	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	44		30 - 130	03/21/13 08:38	03/21/13 20:29	1

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

# Client Sample Results

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

**Client Sample ID: FM0347A-CS**

**Lab Sample ID: 680-88420-3**

Date Collected: 03/14/13 08:40

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	470	U	470	94	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
Acenaphthylene	190	U	190	23	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>Anthracene</b>	<b>55</b>		39	20	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>Benzo[a]anthracene</b>	<b>460</b>		38	18	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>Benzo[a]pyrene</b>	<b>370</b>		49	24	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>Benzo[b]fluoranthene</b>	<b>960</b>		57	29	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>Benzo[g,h,i]perylene</b>	<b>570</b>		94	21	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>Benzo[k]fluoranthene</b>	<b>210</b>		38	17	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>Chrysene</b>	<b>420</b>		42	21	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>Dibenz(a,h)anthracene</b>	<b>170</b>		94	19	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>Fluoranthene</b>	<b>490</b>		94	19	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
Fluorene	94	U	94	19	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>390</b>		94	33	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>1-Methylnaphthalene</b>	<b>41</b>	J	190	21	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>2-Methylnaphthalene</b>	<b>340</b>		190	33	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>Naphthalene</b>	<b>72</b>	J	190	21	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>Phenanthrene</b>	<b>230</b>		38	18	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>Pyrene</b>	<b>470</b>		94	17	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	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	48		30 - 130				03/21/13 08:38	03/21/13 20:44	4

**Client Sample ID: HP0035A-CS**

**Lab Sample ID: 680-88420-4**

Date Collected: 03/14/13 09:45

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 72.2

**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	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Acenaphthylene</b>	<b>27</b>	J	55	6.9	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Anthracene</b>	<b>23</b>		12	5.8	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Benzo[a]anthracene</b>	<b>88</b>		11	5.4	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Benzo[a]pyrene</b>	<b>37</b>		14	7.2	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Benzo[b]fluoranthene</b>	<b>170</b>		17	8.4	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Benzo[g,h,i]perylene</b>	<b>39</b>		28	6.1	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Benzo[k]fluoranthene</b>	<b>18</b>		11	5.0	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Chrysene</b>	<b>81</b>		12	6.2	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Dibenz(a,h)anthracene</b>	<b>17</b>	J	28	5.7	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Fluoranthene</b>	<b>73</b>		28	5.5	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
Fluorene	28	U	28	5.7	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>32</b>		28	9.8	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>1-Methylnaphthalene</b>	<b>25</b>	J	55	6.1	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>2-Methylnaphthalene</b>	<b>120</b>		55	9.8	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Naphthalene</b>	<b>69</b>		55	6.1	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Phenanthrene</b>	<b>82</b>		11	5.4	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Pyrene</b>	<b>84</b>		28	5.1	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	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	64		30 - 130				03/21/13 08:38	03/21/13 20:59	1

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



# Client Sample Results

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

**Client Sample ID: HP0035A-CSD**

**Lab Sample ID: 680-88420-5**

Date Collected: 03/14/13 09:45

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 75.5

**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	☼	03/21/13 08:38	03/21/13 21:14	1
Acenaphthylene	53	U	53	6.7	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Anthracene</b>	<b>16</b>		11	5.6	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Benzo[a]anthracene</b>	<b>47</b>		11	5.2	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Benzo[a]pyrene</b>	<b>24</b>		14	6.9	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Benzo[b]fluoranthene</b>	<b>150</b>		16	8.1	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Benzo[g,h,i]perylene</b>	<b>25</b>	J	27	5.9	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Benzo[k]fluoranthene</b>	<b>12</b>		11	4.8	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Chrysene</b>	<b>87</b>		12	6.0	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Dibenz(a,h)anthracene</b>	<b>14</b>	J	27	5.5	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Fluoranthene</b>	<b>60</b>		27	5.3	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
Fluorene	27	U	27	5.5	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>23</b>	J	27	9.5	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>1-Methylnaphthalene</b>	<b>23</b>	J	53	5.9	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>2-Methylnaphthalene</b>	<b>110</b>		53	9.5	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Naphthalene</b>	<b>66</b>		53	5.9	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Phenanthrene</b>	<b>70</b>		11	5.2	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Pyrene</b>	<b>47</b>		27	4.9	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	55		30 - 130				03/21/13 08:38	03/21/13 21:14	1

**Client Sample ID: CV0951A-CS**

**Lab Sample ID: 680-88420-6**

Date Collected: 03/14/13 10:10

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 67.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	590	U	590	120	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
Acenaphthylene	240	U	240	30	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Anthracene</b>	<b>81</b>		50	25	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Benzo[a]anthracene</b>	<b>240</b>		47	23	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Benzo[a]pyrene</b>	<b>110</b>		62	31	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Benzo[b]fluoranthene</b>	<b>620</b>		72	36	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Benzo[g,h,i]perylene</b>	<b>130</b>		120	26	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Benzo[k]fluoranthene</b>	<b>120</b>		47	21	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Chrysene</b>	<b>270</b>		53	27	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Dibenz(a,h)anthracene</b>	<b>43</b>	J	120	24	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Fluoranthene</b>	<b>190</b>		120	24	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
Fluorene	120	U	120	24	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>88</b>	J	120	42	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>1-Methylnaphthalene</b>	<b>93</b>	J	240	26	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>2-Methylnaphthalene</b>	<b>450</b>		240	42	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Naphthalene</b>	<b>130</b>	J	240	26	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Phenanthrene</b>	<b>140</b>		47	23	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Pyrene</b>	<b>230</b>		120	22	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	51		30 - 130				03/21/13 08:38	03/21/13 21:29	4

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

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

**Client Sample ID: CV0618A-CS**

**Lab Sample ID: 680-88420-7**

Date Collected: 03/14/13 10:45

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 68.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	53	J	140	28	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Acenaphthylene	66		56	7.0	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Anthracene	77		12	5.9	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Benzo[a]anthracene	300		11	5.5	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Benzo[a]pyrene	190		15	7.3	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Benzo[b]fluoranthene	420		17	8.6	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Benzo[g,h,i]perylene	170		28	6.2	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Benzo[k]fluoranthene	110		11	5.1	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Chrysene	380		13	6.3	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Dibenz(a,h)anthracene	65		28	5.8	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Fluoranthene	380		28	5.6	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Fluorene	46		28	5.8	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Indeno[1,2,3-cd]pyrene	150		28	10	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
1-Methylnaphthalene	460		56	6.2	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
2-Methylnaphthalene	580		56	10	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Naphthalene	380		56	6.2	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Phenanthrene	420		11	5.5	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Pyrene	330		28	5.2	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	42		30 - 130				03/21/13 08:38	03/21/13 21:45	1

**Client Sample ID: CV0843A-CS-SP**

**Lab Sample ID: 680-88420-8**

Date Collected: 03/14/13 10:03

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.050	J	0.12	0.025	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Acenaphthylene	0.028	J	0.049	0.0062	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Anthracene	0.056		0.010	0.0052	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Benzo[a]anthracene	0.58		0.0099	0.0048	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Benzo[a]pyrene	0.58		0.013	0.0064	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Benzo[b]fluoranthene	1.0		0.015	0.0075	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Benzo[g,h,i]perylene	0.71		0.025	0.0054	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Benzo[k]fluoranthene	0.45		0.0099	0.0044	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Chrysene	0.73		0.011	0.0055	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Dibenz(a,h)anthracene	0.28		0.025	0.0051	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Fluoranthene	0.51		0.025	0.0049	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Fluorene	0.035		0.025	0.0051	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Indeno[1,2,3-cd]pyrene	0.67		0.025	0.0088	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
1-Methylnaphthalene	0.031	J	0.049	0.0054	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
2-Methylnaphthalene	0.092		0.049	0.0088	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Naphthalene	0.034	J	0.049	0.0054	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Phenanthrene	0.23		0.0099	0.0048	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Pyrene	0.55		0.025	0.0046	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	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	60		30 - 130				03/21/13 08:38	03/21/13 22:00	1

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

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

**Client Sample ID: CV0843B-CS-SP**

**Lab Sample ID: 680-88420-9**

Date Collected: 03/14/13 10:11

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 74.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
Acenaphthylene	210	U	210	27	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>Anthracene</b>	<b>120</b>		45	22	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>Benzo[a]anthracene</b>	<b>1500</b>		43	21	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>Benzo[a]pyrene</b>	<b>1500</b>		56	28	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>Benzo[b]fluoranthene</b>	<b>3000</b>		65	33	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>Benzo[g,h,i]perylene</b>	<b>1700</b>		110	24	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>Benzo[k]fluoranthene</b>	<b>770</b>		43	19	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>Chrysene</b>	<b>1800</b>		48	24	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>Dibenz(a,h)anthracene</b>	<b>570</b>		110	22	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>Fluoranthene</b>	<b>1500</b>		110	21	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
Fluorene	110	U	110	22	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>1500</b>		110	38	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>1-Methylnaphthalene</b>	<b>38</b>	J	210	24	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>2-Methylnaphthalene</b>	<b>370</b>		210	38	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>Naphthalene</b>	<b>88</b>	J	210	24	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>Phenanthrene</b>	<b>550</b>		43	21	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>Pyrene</b>	<b>1500</b>		110	20	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	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	58		30 - 130				03/21/13 08:38	03/21/13 22:15	4

**Client Sample ID: CV0826A-CS-SP**

**Lab Sample ID: 680-88420-10**

Date Collected: 03/14/13 10:40

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Acenaphthylene</b>	<b>33</b>	J	50	6.3	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Anthracene</b>	<b>27</b>		11	5.3	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Benzo[a]anthracene</b>	<b>98</b>		10	4.9	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Benzo[a]pyrene</b>	<b>53</b>		13	6.5	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Benzo[b]fluoranthene</b>	<b>190</b>		15	7.6	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Benzo[g,h,i]perylene</b>	<b>60</b>		25	5.5	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Benzo[k]fluoranthene</b>	<b>23</b>		10	4.5	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Chrysene</b>	<b>150</b>		11	5.6	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Dibenz(a,h)anthracene</b>	<b>27</b>		25	5.1	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Fluoranthene</b>	<b>110</b>		25	5.0	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Fluorene</b>	<b>33</b>		25	5.1	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>36</b>		25	8.9	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>1-Methylnaphthalene</b>	<b>180</b>		50	5.5	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>2-Methylnaphthalene</b>	<b>190</b>		50	8.9	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Naphthalene</b>	<b>71</b>		50	5.5	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Phenanthrene</b>	<b>220</b>		10	4.9	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Pyrene</b>	<b>100</b>		25	4.6	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	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	53		30 - 130				03/21/13 08:38	03/21/13 22:30	1

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

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

**Client Sample ID: CV0826B-CS-SP**

**Lab Sample ID: 680-88420-11**

Date Collected: 03/14/13 10:51

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 76.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	57	J	130	26	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Acenaphthylene	85		53	6.6	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Anthracene	100		11	5.5	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Benzo[a]anthracene	220		11	5.1	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Benzo[a]pyrene	120		14	6.8	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Benzo[b]fluoranthene	300		16	8.0	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Benzo[g,h,i]perylene	150		26	5.8	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Benzo[k]fluoranthene	74		11	4.7	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Chrysene	300		12	5.9	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Dibenz(a,h)anthracene	57		26	5.4	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Fluoranthene	300		26	5.3	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Fluorene	37		26	5.4	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Indeno[1,2,3-cd]pyrene	100		26	9.3	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
1-Methylnaphthalene	110		53	5.8	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
2-Methylnaphthalene	180		53	9.3	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Naphthalene	94		53	5.8	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Phenanthrene	260		11	5.1	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Pyrene	230		26	4.9	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	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	48		30 - 130				03/21/13 08:38	03/21/13 22:45	1

**Client Sample ID: CV1151A-CS-SP**

**Lab Sample ID: 680-88420-12**

Date Collected: 03/14/13 11:19

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	59	J	130	25	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Acenaphthylene	50	J	51	6.3	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Anthracene	62		11	5.3	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Benzo[a]anthracene	300		10	4.9	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Benzo[a]pyrene	200	F	13	6.6	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Benzo[b]fluoranthene	440		15	7.7	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Benzo[g,h,i]perylene	170		25	5.6	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Benzo[k]fluoranthene	120		10	4.6	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Chrysene	340		11	5.7	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Dibenz(a,h)anthracene	67		25	5.2	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Fluoranthene	390	F	25	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Fluorene	43		25	5.2	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Indeno[1,2,3-cd]pyrene	140		25	9.0	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
1-Methylnaphthalene	94		51	5.6	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
2-Methylnaphthalene	190		51	9.0	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Naphthalene	90		51	5.6	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Phenanthrene	310		10	4.9	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Pyrene	310	F	25	4.7	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	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	72		30 - 130				03/21/13 11:14	03/26/13 12:30	1

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

# Client Sample Results

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

**Client Sample ID: CV1151B-CS-SP**

**Lab Sample ID: 680-88420-13**

Date Collected: 03/14/13 11:27

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Acenaphthylene</b>	<b>36</b>	<b>J</b>	48	6.1	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Anthracene</b>	<b>30</b>		10	5.1	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Benzo[a]anthracene</b>	<b>140</b>		9.7	4.7	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Benzo[a]pyrene</b>	<b>71</b>		13	6.3	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Benzo[b]fluoranthene</b>	<b>220</b>		15	7.4	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Benzo[g,h,i]perylene</b>	<b>86</b>		24	5.3	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Benzo[k]fluoranthene</b>	<b>66</b>		9.7	4.4	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Chrysene</b>	<b>140</b>		11	5.4	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Dibenz(a,h)anthracene</b>	<b>40</b>		24	5.0	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Fluoranthene</b>	<b>170</b>		24	4.8	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
Fluorene	24	U	24	5.0	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>68</b>		24	8.6	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>1-Methylnaphthalene</b>	<b>52</b>		48	5.3	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>2-Methylnaphthalene</b>	<b>140</b>		48	8.6	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Naphthalene</b>	<b>67</b>		48	5.3	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Phenanthrene</b>	<b>120</b>		9.7	4.7	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Pyrene</b>	<b>150</b>		24	4.5	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	56		30 - 130				03/21/13 08:38	03/21/13 23:00	1

**Client Sample ID: CV0137A-CS**

**Lab Sample ID: 680-88420-14**

Date Collected: 03/14/13 12:20

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Acenaphthylene</b>	<b>30</b>	<b>J</b>	51	6.4	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Anthracene</b>	<b>27</b>		11	5.4	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Benzo[a]anthracene</b>	<b>120</b>		10	5.0	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Benzo[a]pyrene</b>	<b>51</b>		13	6.7	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Benzo[b]fluoranthene</b>	<b>170</b>		16	7.8	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Benzo[g,h,i]perylene</b>	<b>72</b>		26	5.6	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Benzo[k]fluoranthene</b>	<b>56</b>		10	4.6	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Chrysene</b>	<b>120</b>		12	5.8	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Dibenz(a,h)anthracene</b>	<b>36</b>		26	5.2	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Fluoranthene</b>	<b>120</b>		26	5.1	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
Fluorene	26	U	26	5.2	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>62</b>		26	9.1	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>1-Methylnaphthalene</b>	<b>61</b>		51	5.6	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>2-Methylnaphthalene</b>	<b>130</b>		51	9.1	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Naphthalene</b>	<b>53</b>		51	5.6	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Phenanthrene</b>	<b>110</b>		10	5.0	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Pyrene</b>	<b>120</b>		26	4.7	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	56		30 - 130				03/21/13 08:38	03/21/13 23:15	1

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



# Client Sample Results

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

**Client Sample ID: FM0004A-CS**

**Lab Sample ID: 680-88420-15**

Date Collected: 03/14/13 12:50

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	55	J	130	25	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Acenaphthylene	69		50	6.3	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Anthracene	100		11	5.3	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Benzo[a]anthracene	530		10	4.9	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Benzo[a]pyrene	380		13	6.5	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Benzo[b]fluoranthene	720		15	7.6	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Benzo[g,h,i]perylene	310		25	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Benzo[k]fluoranthene	280		10	4.5	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Chrysene	570		11	5.6	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Dibenz(a,h)anthracene	110		25	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Fluoranthene	1100		25	5.0	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Fluorene	40		25	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Indeno[1,2,3-cd]pyrene	300		25	8.9	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
1-Methylnaphthalene	35	J	50	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
2-Methylnaphthalene	110		50	8.9	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Naphthalene	52		50	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Phenanthrene	400		10	4.9	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Pyrene	940		25	4.6	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	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	77		30 - 130				03/21/13 11:14	03/26/13 13:23	1

**Client Sample ID: FM0004A-CSD**

**Lab Sample ID: 680-88420-16**

Date Collected: 03/14/13 12:50

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	48	J	120	25	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Acenaphthylene	65		49	6.2	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Anthracene	68		10	5.2	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Benzo[a]anthracene	360		9.9	4.8	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Benzo[a]pyrene	310		13	6.4	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Benzo[b]fluoranthene	580		15	7.5	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Benzo[g,h,i]perylene	260		25	5.4	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Benzo[k]fluoranthene	160		9.9	4.5	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Chrysene	430		11	5.6	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Dibenz(a,h)anthracene	59		25	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Fluoranthene	710		25	4.9	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Fluorene	25	U	25	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Indeno[1,2,3-cd]pyrene	240		25	8.8	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
1-Methylnaphthalene	32	J	49	5.4	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
2-Methylnaphthalene	100		49	8.8	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Naphthalene	47	J	49	5.4	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Phenanthrene	270		9.9	4.8	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Pyrene	610		25	4.6	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	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	67		30 - 130				03/21/13 11:14	03/26/13 13:39	1

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

# Client Sample Results

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

**Client Sample ID: FM0004B-CS**

**Lab Sample ID: 680-88420-17**

Date Collected: 03/14/13 13:00

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 81.2

**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	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Acenaphthylene</b>	<b>11</b>	<b>J</b>	49	6.2	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Anthracene</b>	<b>33</b>		10	5.2	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Benzo[a]anthracene</b>	<b>180</b>		9.8	4.8	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Benzo[a]pyrene</b>	<b>210</b>		13	6.4	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Benzo[b]fluoranthene</b>	<b>290</b>		15	7.5	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Benzo[g,h,i]perylene</b>	<b>130</b>		25	5.4	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Benzo[k]fluoranthene</b>	<b>100</b>		9.8	4.4	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Chrysene</b>	<b>200</b>		11	5.5	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Dibenz(a,h)anthracene</b>	<b>47</b>		25	5.0	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Fluoranthene</b>	<b>260</b>		25	4.9	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Fluorene</b>	<b>14</b>	<b>J</b>	25	5.0	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>120</b>		25	8.7	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>1-Methylnaphthalene</b>	<b>22</b>	<b>J</b>	49	5.4	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>2-Methylnaphthalene</b>	<b>36</b>	<b>J</b>	49	8.7	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Naphthalene</b>	<b>30</b>	<b>J</b>	49	5.4	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Phenanthrene</b>	<b>110</b>		9.8	4.8	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Pyrene</b>	<b>260</b>		25	4.6	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	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				03/21/13 11:14	03/27/13 19:21	1

**Client Sample ID: FM0004C-CS**

**Lab Sample ID: 680-88420-18**

Date Collected: 03/14/13 13:10

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 73.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
Acenaphthylene	53	U	53	6.6	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>Anthracene</b>	<b>23</b>		11	5.6	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>Benzo[a]anthracene</b>	<b>84</b>		11	5.2	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>Benzo[a]pyrene</b>	<b>66</b>		14	6.9	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>Benzo[b]fluoranthene</b>	<b>210</b>		16	8.1	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>Benzo[g,h,i]perylene</b>	<b>69</b>		27	5.8	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>Benzo[k]fluoranthene</b>	<b>48</b>		11	4.8	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>Chrysene</b>	<b>160</b>		12	6.0	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>Dibenz(a,h)anthracene</b>	<b>24</b>	<b>J</b>	27	5.4	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>Fluoranthene</b>	<b>150</b>		27	5.3	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
Fluorene	27	U	27	5.4	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>40</b>		27	9.4	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>1-Methylnaphthalene</b>	<b>62</b>		53	5.8	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>2-Methylnaphthalene</b>	<b>130</b>		53	9.4	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>Naphthalene</b>	<b>68</b>		53	5.8	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>Phenanthrene</b>	<b>130</b>		11	5.2	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>Pyrene</b>	<b>140</b>		27	4.9	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	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	57		30 - 130				03/21/13 11:14	03/26/13 15:15	1

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

# Client Sample Results

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

**Client Sample ID: CV1035A-CS**

**Lab Sample ID: 680-88420-19**

Date Collected: 03/14/13 14:05

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 87.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	52	J	110	23	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Acenaphthylene	110		46	5.7	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Anthracene	140		9.6	4.8	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Benzo[a]anthracene	620		9.1	4.4	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Benzo[a]pyrene	510		12	5.9	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Benzo[b]fluoranthene	790		14	7.0	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Benzo[g,h,i]perylene	490		23	5.0	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Benzo[k]fluoranthene	390		9.1	4.1	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Chrysene	620		10	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Dibenz(a,h)anthracene	150		23	4.7	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Fluoranthene	1200		23	4.6	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Fluorene	68		23	4.7	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Indeno[1,2,3-cd]pyrene	460		23	8.1	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
1-Methylnaphthalene	66		46	5.0	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
2-Methylnaphthalene	140		46	8.1	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Naphthalene	110		46	5.0	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Phenanthrene	700		9.1	4.4	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Pyrene	1200		23	4.2	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	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	57		30 - 130				03/21/13 11:14	03/26/13 15:30	1

**Client Sample ID: CV1035B-CS**

**Lab Sample ID: 680-88420-20**

Date Collected: 03/14/13 14:15

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	99	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Acenaphthylene	57	J	200	25	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Anthracene	100		42	21	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Benzo[a]anthracene	470		40	19	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Benzo[a]pyrene	440		51	26	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Benzo[b]fluoranthene	870		60	30	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Benzo[g,h,i]perylene	420		99	22	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Benzo[k]fluoranthene	300		40	18	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Chrysene	580		44	22	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Dibenz(a,h)anthracene	130		99	20	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Fluoranthene	880		99	20	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Fluorene	24	J	99	20	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Indeno[1,2,3-cd]pyrene	260		99	35	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
1-Methylnaphthalene	110	J	200	22	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
2-Methylnaphthalene	160	J	200	35	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Naphthalene	150	J	200	22	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Phenanthrene	470		40	19	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Pyrene	780		99	18	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	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	85		30 - 130				03/21/13 11:14	03/27/13 19:39	4

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

## ANALYTICAL REPORT

Job Number: 680-88420-1

SDG Number: 68088420-1

Job Description: 35th Avenue Superfund Site

For:

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

Attention: Ms. Limari F Krebs



Approved for release.  
Bernard Kirkland  
Project Manager I  
3/28/2013 4:57 PM

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Designee for  
Lisa Harvey  
Project Manager II  
lisa.harvey@testamericainc.com  
03/28/2013

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**TestAmerica Laboratories, Inc.**

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# Table of Contents

Cover Title Page . . . . .	1
Data Summaries . . . . .	4
Report Narrative . . . . .	4
Sample Summary . . . . .	5
Method Summary . . . . .	6
Method / Analyst Summary . . . . .	7
Data Qualifiers . . . . .	8
QC Association Summary . . . . .	9
Manual Integration Summary . . . . .	12
Organic Sample Data . . . . .	28
GC/MS Semi VOA . . . . .	28
Method 8270C Low Level . . . . .	28
Method 8270C Low Level QC Summary . . . . .	29
Method 8270C Low Level Sample Data . . . . .	59
Standards Data . . . . .	531
Method 8270C Low Level ICAL Data . . . . .	531
Method 8270C Low Level CCAL Data . . . . .	605
Raw QC Data . . . . .	638
Method 8270C Low Level Tune Data . . . . .	638
Method 8270C Low Level Blank Data . . . . .	673
Method 8270C Low Level LCS/LCSD Data . . . . .	679
Method 8270C Low Level MS/MSD Data . . . . .	689
Method 8270C Low Level Run Logs . . . . .	709
Method 8270C Low Level Prep Data . . . . .	716
Inorganic Sample Data . . . . .	720
General Chemistry Data . . . . .	720



# Table of Contents

Gen Chem Cover Page .....	721
Gen Chem MDL .....	722
Gen Chem Analysis Run Log .....	726
Gen Chem Prep Data .....	730
Shipping and Receiving Documents .....	734
Client Chain of Custody .....	735
Sample Receipt Checklist .....	737

## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-88420-1**

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

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

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

### RECEIPT

The samples were received on 03/16/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.4 C.

### SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0200A-CS-SP (680-88420-1), CV0200B-CS-SP (680-88420-2), FM0347A-CS (680-88420-3), HP0035A-CS (680-88420-4), HP0035A-CSD (680-88420-5), CV0951A-CS (680-88420-6), CV0618A-CS (680-88420-7), CV0843A-CS-SP (680-88420-8), CV0843B-CS-SP (680-88420-9), CV0826A-CS-SP (680-88420-10), CV0826B-CS-SP (680-88420-11), CV1151A-CS-SP (680-88420-12), CV1151B-CS-SP (680-88420-13), CV0137A-CS (680-88420-14), FM0004A-CS (680-88420-15), FM0004A-CSD (680-88420-16), FM0004B-CS (680-88420-17), FM0004C-CS (680-88420-18), CV1035A-CS (680-88420-19) and CV1035B-CS (680-88420-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/21/2013 and analyzed on 03/21/2013, 03/26/2013 and 03/27/2013.

Samples CV0200A-CS-SP (680-88420-1)[4X], FM0347A-CS (680-88420-3)[4X], CV0951A-CS (680-88420-6)[4X], CV0843B-CS-SP (680-88420-9)[4X] and CV1035B-CS (680-88420-20)[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 CV1151A-CS-SP (680-88420-12) in batch 660-135830.

Several also exceeded the rpd limit for the MS/MSD in batch 660-135850.

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: 680-88420-1

Sdg Number: 68088420-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
680-88420-1	CV0200A-CS-SP	Solid	03/14/2013 0901	03/16/2013 0920
680-88420-2	CV0200B-CS-SP	Solid	03/14/2013 0916	03/16/2013 0920
680-88420-3	FM0347A-CS	Solid	03/14/2013 0840	03/16/2013 0920
680-88420-4	HP0035A-CS	Solid	03/14/2013 0945	03/16/2013 0920
680-88420-5	HP0035A-CSD	Solid	03/14/2013 0945	03/16/2013 0920
680-88420-6	CV0951A-CS	Solid	03/14/2013 1010	03/16/2013 0920
680-88420-7	CV0618A-CS	Solid	03/14/2013 1045	03/16/2013 0920
680-88420-8	CV0843A-CS-SP	Solid	03/14/2013 1003	03/16/2013 0920
680-88420-9	CV0843B-CS-SP	Solid	03/14/2013 1011	03/16/2013 0920
680-88420-10	CV0826A-CS-SP	Solid	03/14/2013 1040	03/16/2013 0920
680-88420-11	CV0826B-CS-SP	Solid	03/14/2013 1051	03/16/2013 0920
680-88420-12	CV1151A-CS-SP	Solid	03/14/2013 1119	03/16/2013 0920
680-88420-12MS	CV1151A-CS-SP	Solid	03/14/2013 1119	03/16/2013 0920
680-88420-12MSD	CV1151A-CS-SP	Solid	03/14/2013 1119	03/16/2013 0920
680-88420-13	CV1151B-CS-SP	Solid	03/14/2013 1127	03/16/2013 0920
680-88420-14	CV0137A-CS	Solid	03/14/2013 1220	03/16/2013 0920
680-88420-15	FM0004A-CS	Solid	03/14/2013 1250	03/16/2013 0920
680-88420-16	FM0004A-CSD	Solid	03/14/2013 1250	03/16/2013 0920
680-88420-17	FM0004B-CS	Solid	03/14/2013 1300	03/16/2013 0920
680-88420-18	FM0004C-CS	Solid	03/14/2013 1310	03/16/2013 0920
680-88420-19	CV1035A-CS	Solid	03/14/2013 1405	03/16/2013 0920
680-88420-20	CV1035B-CS	Solid	03/14/2013 1415	03/16/2013 0920

## METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88420-1  
Sdg Number: 68088420-1

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

### Lab References:

TAL TAM = TestAmerica Tampa

### Method References:

EPA = US Environmental Protection Agency

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

## METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88420-1

Sdg Number: 68088420-1

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

## DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88420-1

Sdg Number: 68088420-1

<b>Lab Section</b>	<b>Qualifier</b>	<b>Description</b>
GC/MS Semi VOA	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	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: 680-88420-1

Sdg Number: 68088420-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>GC/MS Semi VOA</b>					
<b>Prep Batch: 660-135608</b>					
LCS 660-135608/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135608/1-A	Method Blank	T	Solid	3546	
680-88348-A-21-B MS	Matrix Spike	T	Solid	3546	
680-88348-A-21-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88420-1	CV0200A-CS-SP	T	Solid	3546	
680-88420-2	CV0200B-CS-SP	T	Solid	3546	
680-88420-3	FM0347A-CS	T	Solid	3546	
680-88420-4	HP0035A-CS	T	Solid	3546	
680-88420-5	HP0035A-CSD	T	Solid	3546	
680-88420-6	CV0951A-CS	T	Solid	3546	
680-88420-7	CV0618A-CS	T	Solid	3546	
680-88420-8	CV0843A-CS-SP	T	Solid	3546	
680-88420-9	CV0843B-CS-SP	T	Solid	3546	
680-88420-10	CV0826A-CS-SP	T	Solid	3546	
680-88420-11	CV0826B-CS-SP	T	Solid	3546	
680-88420-13	CV1151B-CS-SP	T	Solid	3546	
680-88420-14	CV0137A-CS	T	Solid	3546	
<b>Analysis Batch:660-135630</b>					
MB 660-135608/1-A	Method Blank	T	Solid	8270C LL	660-135608
680-88348-A-21-B MS	Matrix Spike	T	Solid	8270C LL	660-135608
680-88348-A-21-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135608
680-88420-1	CV0200A-CS-SP	T	Solid	8270C LL	660-135608
680-88420-2	CV0200B-CS-SP	T	Solid	8270C LL	660-135608
680-88420-3	FM0347A-CS	T	Solid	8270C LL	660-135608
680-88420-4	HP0035A-CS	T	Solid	8270C LL	660-135608
680-88420-5	HP0035A-CSD	T	Solid	8270C LL	660-135608
680-88420-6	CV0951A-CS	T	Solid	8270C LL	660-135608
680-88420-7	CV0618A-CS	T	Solid	8270C LL	660-135608
680-88420-8	CV0843A-CS-SP	T	Solid	8270C LL	660-135608
680-88420-9	CV0843B-CS-SP	T	Solid	8270C LL	660-135608
680-88420-10	CV0826A-CS-SP	T	Solid	8270C LL	660-135608
680-88420-11	CV0826B-CS-SP	T	Solid	8270C LL	660-135608
680-88420-13	CV1151B-CS-SP	T	Solid	8270C LL	660-135608
680-88420-14	CV0137A-CS	T	Solid	8270C LL	660-135608

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88420-1

Sdg Number: 68088420-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS Semi VOA</b>					
<b>Prep Batch: 660-135631</b>					
LCS 660-135631/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135631/1-A	Method Blank	T	Solid	3546	
680-88420-12	CV1151A-CS-SP	T	Solid	3546	
680-88420-12MS	Matrix Spike	T	Solid	3546	
680-88420-12MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88420-15	FM0004A-CS	T	Solid	3546	
680-88420-16	FM0004A-CSD	T	Solid	3546	
680-88420-17	FM0004B-CS	T	Solid	3546	
680-88420-18	FM0004C-CS	T	Solid	3546	
680-88420-19	CV1035A-CS	T	Solid	3546	
680-88420-20	CV1035B-CS	T	Solid	3546	
<b>Analysis Batch:660-135792</b>					
LCS 660-135608/2-A	Lab Control Sample	T	Solid	8270C LL	660-135608
<b>Analysis Batch:660-135830</b>					
680-88420-12MS	Matrix Spike	T	Solid	8270C LL	660-135631
680-88420-17	FM0004B-CS	T	Solid	8270C LL	660-135631
680-88420-20	CV1035B-CS	T	Solid	8270C LL	660-135631
<b>Analysis Batch:660-135850</b>					
LCS 660-135631/2-A	Lab Control Sample	T	Solid	8270C LL	660-135631
MB 660-135631/1-A	Method Blank	T	Solid	8270C LL	660-135631
680-88420-12	CV1151A-CS-SP	T	Solid	8270C LL	660-135631
680-88420-12MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135631
680-88420-15	FM0004A-CS	T	Solid	8270C LL	660-135631
680-88420-16	FM0004A-CSD	T	Solid	8270C LL	660-135631
680-88420-18	FM0004C-CS	T	Solid	8270C LL	660-135631
680-88420-19	CV1035A-CS	T	Solid	8270C LL	660-135631

**Report Basis**

T = Total



## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88420-1

Sdg Number: 68088420-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Analysis Batch:660-135589</b>					
LCS 660-135589/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-135589/22	Lab Control Sample Duplicate	T	Solid	Moisture	
680-88420-1	CV0200A-CS-SP	T	Solid	Moisture	
680-88420-2	CV0200B-CS-SP	T	Solid	Moisture	
680-88420-3	FM0347A-CS	T	Solid	Moisture	
680-88420-4	HP0035A-CS	T	Solid	Moisture	
680-88420-5	HP0035A-CSD	T	Solid	Moisture	
<b>Analysis Batch:660-135607</b>					
LCS 660-135607/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-135607/13	Lab Control Sample Duplicate	T	Solid	Moisture	
680-88420-6	CV0951A-CS	T	Solid	Moisture	
680-88420-7	CV0618A-CS	T	Solid	Moisture	
680-88420-8	CV0843A-CS-SP	T	Solid	Moisture	
680-88420-9	CV0843B-CS-SP	T	Solid	Moisture	
680-88420-10	CV0826A-CS-SP	T	Solid	Moisture	
680-88420-11	CV0826B-CS-SP	T	Solid	Moisture	
680-88420-12	CV1151A-CS-SP	T	Solid	Moisture	
680-88420-12MS	Matrix Spike	T	Solid	Moisture	
680-88420-12MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88420-13	CV1151B-CS-SP	T	Solid	Moisture	
<b>Analysis Batch:660-135642</b>					
LCS 660-135642/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-135642/12	Lab Control Sample Duplicate	T	Solid	Moisture	
680-88420-14	CV0137A-CS	T	Solid	Moisture	
680-88420-15	FM0004A-CS	T	Solid	Moisture	
680-88420-16	FM0004A-CSD	T	Solid	Moisture	
680-88420-17	FM0004B-CS	T	Solid	Moisture	
680-88420-A-26 MS	Matrix Spike	T	Solid	Moisture	
680-88420-A-26 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
<b>Analysis Batch:660-135659</b>					
MB 660-135659/1	Method Blank	T	Solid	Moisture	
680-88420-18	FM0004C-CS	T	Solid	Moisture	
680-88420-19	CV1035A-CS	T	Solid	Moisture	
680-88420-20	CV1035B-CS	T	Solid	Moisture	

#### Report Basis

T = Total

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88420-1SDG No.: 68088420-1Instrument ID: BSMA5973 Analysis Batch Number: 135466Lab Sample ID: ICIS 660-135466/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/15/13 12:54 Lab File ID: 1AC15003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.04	Split Peak	cantins	03/15/13 14:45

Lab Sample ID: IC 660-135466/4 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/15/13 13:09 Lab File ID: 1AC15004.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.03	Split Peak	cantins	03/15/13 14:47

Lab Sample ID: IC 660-135466/5 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/15/13 13:24 Lab File ID: 1AC15005.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.03	Split Peak	cantins	03/15/13 14:48

Lab Sample ID: IC 660-135466/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/15/13 13:39 Lab File ID: 1AC15006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.02	Split Peak	cantins	03/15/13 14:48

Lab Sample ID: IC 660-135466/7 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/15/13 13:54 Lab File ID: 1AC15007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.03	Split Peak	cantins	03/15/13 14:49

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88420-1SDG No.: 68088420-1Instrument ID: BSMA5973 Analysis Batch Number: 135466Lab Sample ID: IC 660-135466/8 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/15/13 14:10 Lab File ID: 1AC15008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.04	Split Peak	cantins	03/15/13 14:49

Lab Sample ID: IC 660-135466/9 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/15/13 14:25 Lab File ID: 1AC15009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.05	Split Peak	cantins	03/15/13 14:50

Lab Sample ID: ICV 660-135466/10 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/15/13 14:39 Lab File ID: 1AC15010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	4.45	Baseline Event	cantins	03/15/13 15:02
Indeno[1,2,3-cd]pyrene	8.03	Split Peak	cantins	03/15/13 15:00

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88420-1SDG No.: 68088420-1Instrument ID: BSMA5973 Analysis Batch Number: 135630Lab Sample ID: CCVIS 660-135630/9 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/21/13 16:57 Lab File ID: 1AC21008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chrysene	6.22	Baseline Event	cantins	03/21/13 17:08
Indeno[1,2,3-cd]pyrene	7.99	Split Peak	cantins	03/21/13 17:08

Lab Sample ID: 680-88348-A-21-B MS Client Sample ID: \_\_\_\_\_Date Analyzed: 03/21/13 18:12 Lab File ID: 1AC21013.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	7.98	Split Peak	cantins	03/26/13 12:06

Lab Sample ID: 680-88348-A-21-C MSD Client Sample ID: \_\_\_\_\_Date Analyzed: 03/21/13 18:27 Lab File ID: 1AC21014.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	7.99	Split Peak	cantins	03/26/13 12:07

Lab Sample ID: 680-88420-1 Client Sample ID: CV0200A-CS-SPDate Analyzed: 03/21/13 20:14 Lab File ID: 1AC21021.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.02	Split Peak	cantins	03/26/13 12:31
Benzo[k]fluoranthene	7.03	Baseline Event	cantins	03/26/13 12:31
Indeno[1,2,3-cd]pyrene	8.00	Split Peak	cantins	03/26/13 12:32

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88420-1SDG No.: 68088420-1Instrument ID: BSMA5973 Analysis Batch Number: 135630Lab Sample ID: 680-88420-2 Client Sample ID: CV0200B-CS-SPDate Analyzed: 03/21/13 20:29 Lab File ID: 1AC21022.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.03	Split Peak	cantins	03/26/13 12:33
Benzo[k]fluoranthene	7.04	Baseline Event	cantins	03/26/13 12:33
Indeno[1,2,3-cd]pyrene	8.01	Split Peak	cantins	03/26/13 12:33

Lab Sample ID: 680-88420-3 Client Sample ID: FM0347A-CSDate Analyzed: 03/21/13 20:44 Lab File ID: 1AC21023.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.03	Split Peak	cantins	03/26/13 12:34
Benzo[k]fluoranthene	7.04	Baseline Event	cantins	03/26/13 12:34
Indeno[1,2,3-cd]pyrene	8.00	Split Peak	cantins	03/26/13 12:34

Lab Sample ID: 680-88420-4 Client Sample ID: HP0035A-CSDate Analyzed: 03/21/13 20:59 Lab File ID: 1AC21024.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.03	Split Peak	cantins	03/26/13 12:36
Benzo[k]fluoranthene	7.04	Baseline Event	cantins	03/26/13 12:36
Indeno[1,2,3-cd]pyrene	8.00	Split Peak	cantins	03/26/13 12:37
Benzo[g,h,i]perylene	8.20	Baseline Event	cantins	03/26/13 12:37

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88420-1SDG No.: 68088420-1Instrument ID: BSMA5973 Analysis Batch Number: 135630Lab Sample ID: 680-88420-5 Client Sample ID: HP0035A-CSDDate Analyzed: 03/21/13 21:14 Lab File ID: 1AC21025.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.03	Split Peak	cantins	03/26/13 12:38
Benzo[k]fluoranthene	7.05	Baseline Event	cantins	03/26/13 12:39
Indeno[1,2,3-cd]pyrene	8.01	Split Peak	cantins	03/26/13 12:40

Lab Sample ID: 680-88420-6 Client Sample ID: CV0951A-CSDate Analyzed: 03/21/13 21:29 Lab File ID: 1AC21026.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.03	Split Peak	cantins	03/26/13 12:41
Benzo[k]fluoranthene	7.03	Baseline Event	cantins	03/26/13 12:41
Indeno[1,2,3-cd]pyrene	8.00	Split Peak	cantins	03/26/13 12:41

Lab Sample ID: 680-88420-7 Client Sample ID: CV0618A-CSDate Analyzed: 03/21/13 21:45 Lab File ID: 1AC21027.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.04	Split Peak	cantins	03/26/13 12:43
Benzo[k]fluoranthene	7.05	Baseline Event	cantins	03/26/13 12:43
Indeno[1,2,3-cd]pyrene	8.03	Split Peak	cantins	03/26/13 12:43

Lab Sample ID: 680-88420-8 Client Sample ID: CV0843A-CS-SPDate Analyzed: 03/21/13 22:00 Lab File ID: 1AC21028.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.05	Split Peak	cantins	03/26/13 12:44
Benzo[k]fluoranthene	7.05	Baseline Event	cantins	03/26/13 12:44
Indeno[1,2,3-cd]pyrene	8.02	Split Peak	cantins	03/26/13 12:45

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88420-1SDG No.: 68088420-1Instrument ID: BSMA5973 Analysis Batch Number: 135630Lab Sample ID: 680-88420-9 Client Sample ID: CV0843B-CS-SPDate Analyzed: 03/21/13 22:15 Lab File ID: 1AC21029.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.04	Split Peak	cantins	03/26/13 12:46
Benzo[k]fluoranthene	7.05	Baseline Event	cantins	03/26/13 12:46
Indeno[1,2,3-cd]pyrene	8.02	Split Peak	cantins	03/26/13 12:47

Lab Sample ID: 680-88420-10 Client Sample ID: CV0826A-CS-SPDate Analyzed: 03/21/13 22:30 Lab File ID: 1AC21030.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]anthracene	6.23	Split Peak	cantins	03/26/13 12:48
Chrysene	6.25	Baseline Event	cantins	03/26/13 12:48
Benzo[b]fluoranthene	7.04	Split Peak	cantins	03/26/13 12:48
Benzo[k]fluoranthene	7.05	Baseline Event	cantins	03/26/13 12:49
Indeno[1,2,3-cd]pyrene	8.02	Split Peak	cantins	03/26/13 12:49

Lab Sample ID: 680-88420-11 Client Sample ID: CV0826B-CS-SPDate Analyzed: 03/21/13 22:45 Lab File ID: 1AC21031.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.05	Split Peak	cantins	03/26/13 12:50
Benzo[k]fluoranthene	7.06	Baseline Event	cantins	03/26/13 12:50
Indeno[1,2,3-cd]pyrene	8.03	Split Peak	cantins	03/26/13 12:51

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88420-1SDG No.: 68088420-1Instrument ID: BSMA5973 Analysis Batch Number: 135630Lab Sample ID: 680-88420-13 Client Sample ID: CV1151B-CS-SPDate Analyzed: 03/21/13 23:00 Lab File ID: 1AC21032.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.05	Split Peak	cantins	03/26/13 12:52
Benzo[k]fluoranthene	7.05	Baseline Event	cantins	03/26/13 12:53
Indeno[1,2,3-cd]pyrene	8.02	Split Peak	cantins	03/26/13 12:53

Lab Sample ID: 680-88420-14 Client Sample ID: CV0137A-CSDate Analyzed: 03/21/13 23:15 Lab File ID: 1AC21033.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.05	Split Peak	cantins	03/26/13 12:54
Benzo[k]fluoranthene	7.05	Baseline Event	cantins	03/26/13 12:55
Dibenz(a,h)anthracene	8.04	Baseline Event	cantins	03/26/13 12:55
Indeno[1,2,3-cd]pyrene	8.04	Split Peak	cantins	03/26/13 12:56
Benzo[g,h,i]perylene	8.23	Baseline Event	cantins	03/26/13 12:55



## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88420-1SDG No.: 68088420-1Instrument ID: BSMA5973 Analysis Batch Number: 135850Lab Sample ID: CCVIS 660-135850/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/26/13 11:28 Lab File ID: 1AC26003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	7.97	Split Peak	cantins	03/26/13 11:41

Lab Sample ID: LCS 660-135631/2-A Client Sample ID: \_\_\_\_\_Date Analyzed: 03/26/13 12:15 Lab File ID: 1AC26006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	7.96	Split Peak	cantins	03/28/13 11:03

Lab Sample ID: 680-88420-12 Client Sample ID: CV1151A-CS-SPDate Analyzed: 03/26/13 12:30 Lab File ID: 1AC26007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.00	Split Peak	cantins	03/28/13 11:03
Benzo[k]fluoranthene	7.01	Baseline Event	cantins	03/28/13 11:03
Indeno[1,2,3-cd]pyrene	7.97	Split Peak	cantins	03/28/13 11:04

Lab Sample ID: 680-88420-12 MSD Client Sample ID: CV1151A-CS-SP MSDDate Analyzed: 03/26/13 13:08 Lab File ID: 1AC26009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.00	Split Peak	cantins	03/28/13 11:07

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88420-1SDG No.: 68088420-1Instrument ID: BSMA5973 Analysis Batch Number: 135850Lab Sample ID: 680-88420-15 Client Sample ID: FM0004A-CSDate Analyzed: 03/26/13 13:23 Lab File ID: 1AC26010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.01	Split Peak	cantins	03/28/13 11:08
Benzo[k]fluoranthene	7.02	Baseline Event	cantins	03/28/13 11:08
Indeno[1,2,3-cd]pyrene	7.98	Split Peak	cantins	03/28/13 11:08

Lab Sample ID: 680-88420-16 Client Sample ID: FM0004A-CSDDate Analyzed: 03/26/13 13:39 Lab File ID: 1AC26011.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.01	Split Peak	cantins	03/28/13 11:09
Benzo[k]fluoranthene	7.02	Baseline Event	cantins	03/28/13 11:09
Indeno[1,2,3-cd]pyrene	7.99	Split Peak	cantins	03/28/13 11:09

Lab Sample ID: 680-88420-18 Client Sample ID: FM0004C-CSDate Analyzed: 03/26/13 15:15 Lab File ID: 1AC26013.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]anthracene	6.20	Split Peak	cantins	03/28/13 11:10
Chrysene	6.21	Baseline Event	cantins	03/28/13 11:10
Benzo[b]fluoranthene	7.02	Split Peak	cantins	03/28/13 11:11
Benzo[k]fluoranthene	7.03	Baseline Event	cantins	03/28/13 11:11
Indeno[1,2,3-cd]pyrene	8.01	Split Peak	cantins	03/28/13 11:12

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88420-1SDG No.: 68088420-1Instrument ID: BSMA5973 Analysis Batch Number: 135850Lab Sample ID: 680-88420-19 Client Sample ID: CV1035A-CSDate Analyzed: 03/26/13 15:30 Lab File ID: 1AC26014.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.02	Split Peak	cantins	03/28/13 11:24
Benzo[k]fluoranthene	7.03	Baseline Event	cantins	03/28/13 11:24
Indeno[1,2,3-cd]pyrene	8.00	Split Peak	cantins	03/28/13 11:25

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88420-1SDG No.: 68088420-1Instrument 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.: 680-88420-1SDG No.: 68088420-1Instrument 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.: 680-88420-1SDG No.: 68088420-1Instrument 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: 680-88420-12 MS Client Sample ID: CV1151A-CS-SP MSDate Analyzed: 03/27/13 19:03 Lab File ID: 1CC27030.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	03/28/13 12:10

Lab Sample ID: 680-88420-17 Client Sample ID: FM0004B-CSDate Analyzed: 03/27/13 19:21 Lab File ID: 1CC27031.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	03/28/13 12:11

Lab Sample ID: 680-88420-20 Client Sample ID: CV1035B-CSDate Analyzed: 03/27/13 19:39 Lab File ID: 1CC27032.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	03/28/13 12:11
Benzo[g,h,i]perylene	10.40	Baseline Event	cantins	03/28/13 12:11

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88420-1SDG No.: 68088420-1Instrument 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.: 680-88420-1SDG No.: 68088420-1Instrument 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.: 680-88420-1

SDG No.: 68088420-1

Instrument ID: BSMD5973 Analysis Batch Number: 135792

Lab Sample ID: CCVIS 660-135792/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/26/13 10:32 Lab File ID: 1DC26003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.89	Split Peak	cantins	03/26/13 10:52

Lab Sample ID: LCS 660-135608/2-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/26/13 13:10 Lab File ID: 1DC26010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.87	Split Peak	cantins	03/26/13 13:31

# 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.: 680-88420-1

SDG No.: 68088420-1

Matrix: Solid

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0200A-CS-SP	680-88420-1	54
CV0200B-CS-SP	680-88420-2	44
FM0347A-CS	680-88420-3	48
HP0035A-CS	680-88420-4	64
HP0035A-CSD	680-88420-5	55
CV0951A-CS	680-88420-6	51
CV0618A-CS	680-88420-7	42
CV0843A-CS-SP	680-88420-8	60
CV0843B-CS-SP	680-88420-9	58
CV0826A-CS-SP	680-88420-10	53
CV0826B-CS-SP	680-88420-11	48
CV1151A-CS-SP	680-88420-12	72
CV1151B-CS-SP	680-88420-13	56
CV0137A-CS	680-88420-14	56
FM0004A-CS	680-88420-15	77
FM0004A-CSD	680-88420-16	67
FM0004B-CS	680-88420-17	80
FM0004C-CS	680-88420-18	57
CV1035A-CS	680-88420-19	57
CV1035B-CS	680-88420-20	85
	MB 660-135608/1-A	57
	MB 660-135631/1-A	81
	LCS 660-135608/2-A	76
	LCS 660-135631/2-A	70
	680-88348-A-21-B MS	62
CV1151A-CS-SP MS	680-88420-12 MS	71
	680-88348-A-21-C MSD	68
CV1151A-CS-SP MSD	680-88420-12 MSD	73

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.: 680-88420-1  
 SDG No.: 68088420-1  
 Matrix: Solid Level: Low Lab File ID: 1DC26010.D  
 Lab ID: LCS 660-135608/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	645	482	75	39-130	
Acenaphthylene	645	504	78	38-130	
Anthracene	645	502	78	37-130	
Benzo[a]anthracene	645	562	87	40-130	
Benzo[a]pyrene	645	480	74	49-130	
Benzo[b]fluoranthene	645	508	79	37-130	
Benzo[g,h,i]perylene	645	486	75	32-130	
Benzo[k]fluoranthene	645	534	83	32-130	
Chrysene	645	504	78	41-130	
Dibenz(a,h)anthracene	645	515	80	27-130	
Fluoranthene	645	519	80	40-130	
Fluorene	645	514	80	40-130	
Indeno[1,2,3-cd]pyrene	645	452	70	30-130	
1-Methylnaphthalene	645	512	79	31-130	
2-Methylnaphthalene	645	497	77	33-130	
Naphthalene	645	478	74	36-130	
Phenanthrene	645	501	78	42-130	
Pyrene	645	514	80	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.: 680-88420-1  
 SDG No.: 68088420-1  
 Matrix: Solid Level: Low Lab File ID: 1AC26006.D  
 Lab ID: LCS 660-135631/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	653	430	66	39-130	
Acenaphthylene	653	477	73	38-130	
Anthracene	653	437	67	37-130	
Benzo[a]anthracene	653	501	77	40-130	
Benzo[a]pyrene	653	427	65	49-130	
Benzo[b]fluoranthene	653	471	72	37-130	
Benzo[g,h,i]perylene	653	437	67	32-130	
Benzo[k]fluoranthene	653	501	77	32-130	
Chrysene	653	489	75	41-130	
Dibenz(a,h)anthracene	653	496	76	27-130	
Fluoranthene	653	479	73	40-130	
Fluorene	653	491	75	40-130	
Indeno[1,2,3-cd]pyrene	653	434	66	30-130	
1-Methylnaphthalene	653	506	77	31-130	
2-Methylnaphthalene	653	420	64	33-130	
Naphthalene	653	440	67	36-130	
Phenanthrene	653	437	67	42-130	
Pyrene	653	411	63	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.: 680-88420-1  
 SDG No.: 68088420-1  
 Matrix: Solid Level: Low Lab File ID: 1AC21013.D  
 Lab ID: 680-88348-A-21-B MS Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	934	140 U	559	60	39-130	
Acenaphthylene	934	57 U	554	59	38-130	
Anthracene	934	12 U	554	59	37-130	
Benzo[a]anthracene	934	11 U	695	74	40-130	
Benzo[a]pyrene	934	15 U	539	58	49-130	
Benzo[b]fluoranthene	934	17 U	666	71	37-130	
Benzo[g,h,i]perylene	934	6.5 J	512	54	32-130	
Benzo[k]fluoranthene	934	11 U	618	66	32-130	
Chrysene	934	13 U	562	60	41-130	
Dibenz(a,h)anthracene	934	29 U	548	59	27-130	
Fluoranthene	934	29 U	592	63	40-130	
Fluorene	934	29 U	591	63	40-130	
Indeno[1,2,3-cd]pyrene	934	29 U	475	51	30-130	
1-Methylnaphthalene	934	57 U	594	64	31-130	
2-Methylnaphthalene	934	57 U	541	58	33-130	
Naphthalene	934	57 U	560	60	36-130	
Phenanthrene	934	8.3 J	611	64	42-130	
Pyrene	934	29 U	562	60	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.: 680-88420-1  
 SDG No.: 68088420-1  
 Matrix: Solid Level: Low Lab File ID: 1CC27030.D  
 Lab ID: 680-88420-12 MS Client ID: CV1151A-CS-SP MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	843	59 J	655	71	39-130	
Acenaphthylene	843	50 J	619	68	38-130	
Anthracene	843	62	772	84	37-130	
Benzo[a]anthracene	843	300	1180	104	40-130	
Benzo[a]pyrene	843	200	1110	107	49-130	
Benzo[b]fluoranthene	843	440	1500	125	37-130	
Benzo[g,h,i]perylene	843	170	846	80	32-130	
Benzo[k]fluoranthene	843	120	1040	109	32-130	
Chrysene	843	340	1240	107	41-130	
Dibenz(a,h)anthracene	843	67	742	80	27-130	
Fluoranthene	843	390	1800	167	40-130	F
Fluorene	843	43	654	73	40-130	
Indeno[1,2,3-cd]pyrene	843	140	847	83	30-130	
1-Methylnaphthalene	843	94	882	94	31-130	
2-Methylnaphthalene	843	190	844	78	33-130	
Naphthalene	843	90	772	81	36-130	
Phenanthrene	843	310	1400	130	42-130	
Pyrene	843	310	1640	158	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.: 680-88420-1  
 SDG No.: 68088420-1  
 Matrix: Solid Level: Low Lab File ID: 1AC21014.D  
 Lab ID: 680-88348-A-21-C MSD Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	955	622	65	11	40	39-130	
Acenaphthylene	955	646	68	15	40	38-130	
Anthracene	955	668	70	19	40	37-130	
Benzo[a]anthracene	955	794	83	13	40	40-130	
Benzo[a]pyrene	955	623	65	14	40	49-130	
Benzo[b]fluoranthene	955	716	75	7	40	37-130	
Benzo[g,h,i]perylene	955	527	55	3	40	32-130	
Benzo[k]fluoranthene	955	740	77	18	40	32-130	
Chrysene	955	665	70	17	40	41-130	
Dibenz(a,h)anthracene	955	595	62	8	40	27-130	
Fluoranthene	955	672	70	13	40	40-130	
Fluorene	955	680	71	14	40	40-130	
Indeno[1,2,3-cd]pyrene	955	541	57	13	40	30-130	
1-Methylnaphthalene	955	721	76	19	40	31-130	
2-Methylnaphthalene	955	656	69	19	40	33-130	
Naphthalene	955	642	67	14	40	36-130	
Phenanthrene	955	650	67	6	40	42-130	
Pyrene	955	679	71	19	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.: 680-88420-1  
 SDG No.: 68088420-1  
 Matrix: Solid Level: Low Lab File ID: 1AC26009.D  
 Lab ID: 680-88420-12 MSD Client ID: CV1151A-CS-SP MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	849	642	69	2	40	39-130	
Acenaphthylene	849	624	68	1	40	38-130	
Anthracene	849	682	73	12	40	37-130	
Benzo[a]anthracene	849	997	82	17	40	40-130	
Benzo[a]pyrene	849	703	59	45	40	49-130	F
Benzo[b]fluoranthene	849	1030	69	37	40	37-130	
Benzo[g,h,i]perylene	849	691	61	20	40	32-130	
Benzo[k]fluoranthene	849	701	68	39	40	32-130	
Chrysene	849	1010	79	20	40	41-130	
Dibenz(a,h)anthracene	849	733	78	1	40	27-130	
Fluoranthene	849	1020	74	55	40	40-130	F
Fluorene	849	725	80	10	40	40-130	
Indeno[1,2,3-cd]pyrene	849	818	79	4	40	30-130	
1-Methylnaphthalene	849	796	83	10	40	31-130	
2-Methylnaphthalene	849	748	66	12	40	33-130	
Naphthalene	849	683	70	12	40	36-130	
Phenanthrene	849	1140	99	20	40	42-130	
Pyrene	849	1100	92	40	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.: 680-88420-1  
 SDG No.: 68088420-1  
 Lab File ID: 1AC21010.D Lab Sample ID: MB 660-135608/1-A  
 Matrix: Solid Date Extracted: 03/21/2013 08:38  
 Instrument ID: BSMA5973 Date Analyzed: 03/21/2013 17:27  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	680-88348-A-21-B MS	1AC21013.D	03/21/2013 18:12
	680-88348-A-21-C MSD	1AC21014.D	03/21/2013 18:27
CV0200A-CS-SP	680-88420-1	1AC21021.D	03/21/2013 20:14
CV0200B-CS-SP	680-88420-2	1AC21022.D	03/21/2013 20:29
FM0347A-CS	680-88420-3	1AC21023.D	03/21/2013 20:44
HP0035A-CS	680-88420-4	1AC21024.D	03/21/2013 20:59
HP0035A-CSD	680-88420-5	1AC21025.D	03/21/2013 21:14
CV0951A-CS	680-88420-6	1AC21026.D	03/21/2013 21:29
CV0618A-CS	680-88420-7	1AC21027.D	03/21/2013 21:45
CV0843A-CS-SP	680-88420-8	1AC21028.D	03/21/2013 22:00
CV0843B-CS-SP	680-88420-9	1AC21029.D	03/21/2013 22:15
CV0826A-CS-SP	680-88420-10	1AC21030.D	03/21/2013 22:30
CV0826B-CS-SP	680-88420-11	1AC21031.D	03/21/2013 22:45
CV1151B-CS-SP	680-88420-13	1AC21032.D	03/21/2013 23:00
CV0137A-CS	680-88420-14	1AC21033.D	03/21/2013 23:15
	LCS 660-135608/2-A	1DC26010.D	03/26/2013 13:10

FORM IV  
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Lab File ID: 1AC26005.D Lab Sample ID: MB 660-135631/1-A  
 Matrix: Solid Date Extracted: 03/21/2013 11:14  
 Instrument ID: BSMA5973 Date Analyzed: 03/26/2013 11:59  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135631/2-A	1AC26006.D	03/26/2013 12:15
CV1151A-CS-SP	680-88420-12	1AC26007.D	03/26/2013 12:30
CV1151A-CS-SP MSD	680-88420-12 MSD	1AC26009.D	03/26/2013 13:08
FM0004A-CS	680-88420-15	1AC26010.D	03/26/2013 13:23
FM0004A-CSD	680-88420-16	1AC26011.D	03/26/2013 13:39
FM0004C-CS	680-88420-18	1AC26013.D	03/26/2013 15:15
CV1035A-CS	680-88420-19	1AC26014.D	03/26/2013 15:30
CV1151A-CS-SP MS	680-88420-12 MS	1CC27030.D	03/27/2013 19:03
FM0004B-CS	680-88420-17	1CC27031.D	03/27/2013 19:21
CV1035B-CS	680-88420-20	1CC27032.D	03/27/2013 19:39

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

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Lab File ID: 1AC15002.D DFTPP Injection Date: 03/15/2013  
 Instrument ID: BSMA5973 DFTPP Injection Time: 12:38  
 Analysis Batch No.: 135466

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	74.2
68	Less than 2.0 % of mass 69	0.9 (1.5)1
69	Mass 69 relative abundance	60.2
70	Less than 2.0 % of mass 69	0.4 (0.7)1
127	10.0 - 80.0 % of mass 198	48.9
197	Less than 2.0 % of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.6
275	10.0 - 60.0 % of mass 198	24.1
365	Greater than 1.0 % of mass 198	5.4
441	Present but less than mass 443	7.7
442	Greater than 50.0 % of mass 198	57.8
443	15.0 - 24.0 % of mass 442	11.6 (20.0)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 660-135466/3	1AC15003.D	03/15/2013	12:54
	IC 660-135466/4	1AC15004.D	03/15/2013	13:09
	IC 660-135466/5	1AC15005.D	03/15/2013	13:24
	IC 660-135466/6	1AC15006.D	03/15/2013	13:39
	IC 660-135466/7	1AC15007.D	03/15/2013	13:54
	IC 660-135466/8	1AC15008.D	03/15/2013	14:10
	IC 660-135466/9	1AC15009.D	03/15/2013	14:25
	ICV 660-135466/10	1AC15010.D	03/15/2013	14:39

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

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Lab File ID: 1AC21007.D DFTPP Injection Date: 03/21/2013  
 Instrument ID: BSMA5973 DFTPP Injection Time: 16:44  
 Analysis Batch No.: 135630

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	73.5
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	49.5
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 198	47.2
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	8.0
275	10.0 - 60.0 % of mass 198	32.7
365	Greater than 1.0 % of mass 198	6.0
441	Present but less than mass 443	6.1
442	Greater than 50.0 % of mass 198	69.4
443	15.0 - 24.0 % of mass 442	12.0 (17.3)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-135630/9	1AC21008.D	03/21/2013	16:57
	MB 660-135608/1-A	1AC21010.D	03/21/2013	17:27
	680-88348-A-21-B MS	1AC21013.D	03/21/2013	18:12
	680-88348-A-21-C MSD	1AC21014.D	03/21/2013	18:27
CV0200A-CS-SP	680-88420-1	1AC21021.D	03/21/2013	20:14
CV0200B-CS-SP	680-88420-2	1AC21022.D	03/21/2013	20:29
FM0347A-CS	680-88420-3	1AC21023.D	03/21/2013	20:44
HP0035A-CS	680-88420-4	1AC21024.D	03/21/2013	20:59
HP0035A-CSD	680-88420-5	1AC21025.D	03/21/2013	21:14
CV0951A-CS	680-88420-6	1AC21026.D	03/21/2013	21:29
CV0618A-CS	680-88420-7	1AC21027.D	03/21/2013	21:45
CV0843A-CS-SP	680-88420-8	1AC21028.D	03/21/2013	22:00
CV0843B-CS-SP	680-88420-9	1AC21029.D	03/21/2013	22:15
CV0826A-CS-SP	680-88420-10	1AC21030.D	03/21/2013	22:30
CV0826B-CS-SP	680-88420-11	1AC21031.D	03/21/2013	22:45
CV1151B-CS-SP	680-88420-13	1AC21032.D	03/21/2013	23:00
CV0137A-CS	680-88420-14	1AC21033.D	03/21/2013	23:15

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

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Lab File ID: 1AC26002.D DFTPP Injection Date: 03/26/2013  
 Instrument ID: BSMA5973 DFTPP Injection Time: 11:15  
 Analysis Batch No.: 135850

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	73.6
68	Less than 2.0 % of mass 69	0.8 (1.4)1
69	Mass 69 relative abundance	57.4
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 198	51.8
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	7.0
275	10.0 - 60.0 % of mass 198	27.4
365	Greater than 1.0 % of mass 198	7.2
441	Present but less than mass 443	11.0
442	Greater than 50.0 % of mass 198	65.2
443	15.0 - 24.0 % of mass 442	12.4 (19.1)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 660-135850/3	1AC26003.D	03/26/2013	11:28
	MB 660-135631/1-A	1AC26005.D	03/26/2013	11:59
	LCS 660-135631/2-A	1AC26006.D	03/26/2013	12:15
CV1151A-CS-SP	680-88420-12	1AC26007.D	03/26/2013	12:30
CV1151A-CS-SP MSD	680-88420-12 MSD	1AC26009.D	03/26/2013	13:08
FM0004A-CS	680-88420-15	1AC26010.D	03/26/2013	13:23
FM0004A-CSD	680-88420-16	1AC26011.D	03/26/2013	13:39
FM0004C-CS	680-88420-18	1AC26013.D	03/26/2013	15:15
CV1035A-CS	680-88420-19	1AC26014.D	03/26/2013	15:30

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

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 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.: 680-88420-1  
 SDG No.: 68088420-1  
 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
CV1151A-CS-SP MS	680-88420-12 MS	1CC27030.D	03/27/2013	19:03
FM0004B-CS	680-88420-17	1CC27031.D	03/27/2013	19:21
CV1035B-CS	680-88420-20	1CC27032.D	03/27/2013	19:39



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

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 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.: 680-88420-1  
 SDG No.: 68088420-1  
 Lab File ID: 1DC26002.D DFTPP Injection Date: 03/26/2013  
 Instrument ID: BSMD5973 DFTPP Injection Time: 10:15  
 Analysis Batch No.: 135792

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	41.3
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	43.9
70	Less than 2.0 % of mass 69	0.2 (0.5)1
127	10.0 - 80.0 % of mass 198	48.1
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.1
275	10.0 - 60.0 % of mass 198	28.1
365	Greater than 1.0 % of mass 198	3.3
441	Present but less than mass 443	8.6
442	Greater than 50.0 % of mass 198	79.4
443	15.0 - 24.0 % of mass 442	15.8 (19.9)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 660-135792/3	1DC26003.D	03/26/2013	10:32
	LCS 660-135608/2-A	1DC26010.D	03/26/2013	13:10

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

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Sample No.: ICIS 660-135466/3 Date Analyzed: 03/15/2013 12:54  
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1AC15003.D Heated Purge: (Y/N) N  
 Calibration ID: 2833

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	466294	2.30	299519	3.32	466296	4.25
UPPER LIMIT	932588	2.80	599038	3.82	932592	4.75
LOWER LIMIT	233147	1.80	149760	2.82	233148	3.75
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-135466/10	495704	2.31	291089	3.33	473626	4.25

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.: 680-88420-1  
 SDG No.: 68088420-1  
 Sample No.: ICIS 660-135466/3 Date Analyzed: 03/15/2013 12:54  
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1AC15003.D Heated Purge: (Y/N) N  
 Calibration ID: 2833

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	425528	6.25	422731	7.33		
UPPER LIMIT	851056	6.75	845462	7.83		
LOWER LIMIT	212764	5.75	211366	6.83		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-135466/10	433094	6.24	475583	7.33		

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.: 680-88420-1  
 SDG No.: 68088420-1  
 Sample No.: CCVIS 660-135630/9 Date Analyzed: 03/21/2013 16:57  
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1AC21008.D Heated Purge: (Y/N) N  
 Calibration ID: 2833

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	532825	2.28	367475	3.30	534008	4.22	
UPPER LIMIT	1065650	2.78	734950	3.80	1068016	4.72	
LOWER LIMIT	266413	1.78	183738	2.80	267004	3.72	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135608/1-A		546700	2.28	368322	3.30	537933	4.22
680-88348-A-21-B MS		627214	2.28	412385	3.30	551006	4.22
680-88348-A-21-C MSD		557507	2.28	373187	3.30	552845	4.22
680-88420-1	CV0200A-CS-SP	490031	2.29	350537	3.30	530275	4.22
680-88420-2	CV0200B-CS-SP	518690	2.28	412566	3.31	533445	4.22
680-88420-3	FM0347A-CS	480877	2.29	373692	3.31	566046	4.23
680-88420-4	HP0035A-CS	523454	2.29	397294	3.31	542078	4.23
680-88420-5	HP0035A-CSD	542105	2.29	381474	3.31	553018	4.23
680-88420-6	CV0951A-CS	436950	2.29	348698	3.31	529336	4.23
680-88420-7	CV0618A-CS	488885	2.29	385032	3.31	537850	4.23
680-88420-8	CV0843A-CS-SP	544899	2.29	424020	3.31	603533	4.23
680-88420-9	CV0843B-CS-SP	504685	2.29	378340	3.31	591182	4.23
680-88420-10	CV0826A-CS-SP	527187	2.29	426773	3.31	578781	4.23
680-88420-11	CV0826B-CS-SP	519110	2.29	395849	3.31	583316	4.23
680-88420-13	CV1151B-CS-SP	517755	2.29	425701	3.31	667164	4.24
680-88420-14	CV0137A-CS	576662	2.29	464120	3.31	648944	4.24

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.: 680-88420-1  
 SDG No.: 68088420-1  
 Sample No.: CCVIS 660-135630/9 Date Analyzed: 03/21/2013 16:57  
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1AC21008.D Heated Purge: (Y/N) N  
 Calibration ID: 2833

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	425959	6.21	463345	7.29		
UPPER LIMIT	851918	6.71	926690	7.79		
LOWER LIMIT	212980	5.71	231673	6.79		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-135608/1-A		499249	6.20	534895	7.29	
680-88348-A-21-B MS		506852	6.21	434781	7.29	
680-88348-A-21-C MSD		471747	6.21	403649	7.29	
680-88420-1	CV0200A-CS-SP	451583	6.22	509453	7.31	
680-88420-2	CV0200B-CS-SP	482669	6.22	628601	7.31	
680-88420-3	FM0347A-CS	426705	6.22	520314	7.31	
680-88420-4	HP0035A-CS	402355	6.22	528939	7.31	
680-88420-5	HP0035A-CSD	451399	6.22	609941	7.32	
680-88420-6	CV0951A-CS	371223	6.22	495195	7.32	
680-88420-7	CV0618A-CS	543836	6.23	764238	7.33	
680-88420-8	CV0843A-CS-SP	434766	6.23	600841	7.33	
680-88420-9	CV0843B-CS-SP	469889	6.23	629481	7.33	
680-88420-10	CV0826A-CS-SP	510334	6.24	685446	7.33	
680-88420-11	CV0826B-CS-SP	604121	6.24	837884	7.34	
680-88420-13	CV1151B-CS-SP	588937	6.24	760187	7.34	
680-88420-14	CV0137A-CS	502632	6.24	744031	7.33	

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.: 680-88420-1  
 SDG No.: 68088420-1  
 Sample No.: CCVIS 660-135850/3 Date Analyzed: 03/26/2013 11:28  
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1AC26003.D Heated Purge: (Y/N) N  
 Calibration ID: 2833

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	509128	2.27	363732	3.29	582610	4.21	
UPPER LIMIT	1018256	2.77	727464	3.79	1165220	4.71	
LOWER LIMIT	254564	1.77	181866	2.79	291305	3.71	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135631/1-A		377337	2.27	278086	3.29	415737	4.20
LCS 660-135631/2-A		544182	2.27	358843	3.29	564804	4.21
680-88420-12	CV1151A-CS-SP	393543	2.27	275891	3.29	438498	4.21
680-88420-12 MSD	CV1151A-CS-SP MSD	403465	2.27	294426	3.29	443904	4.21
680-88420-15	FM0004A-CS	382227	2.27	304286	3.29	462283	4.21
680-88420-16	FM0004A-CSD	386544	2.27	300722	3.29	471047	4.21
680-88420-18	FM0004C-CS	450924	2.27	322104	3.29	509223	4.22
680-88420-19	CV1035A-CS	454863	2.28	334012	3.29	536858	4.21

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.: 680-88420-1  
 SDG No.: 68088420-1  
 Sample No.: CCVIS 660-135850/3 Date Analyzed: 03/26/2013 11:28  
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1AC26003.D Heated Purge: (Y/N) N  
 Calibration ID: 2833

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	582279	6.19	536475	7.27		
UPPER LIMIT	1164558	6.69	1072950	7.77		
LOWER LIMIT	291140	5.69	268238	6.77		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-135631/1-A		432209	6.18	464534	7.27	
LCS 660-135631/2-A		603297	6.19	589267	7.27	
680-88420-12	CV1151A-CS-SP	404662	6.19	420762	7.28	
680-88420-12 MSD	CV1151A-CS-SP MSD	337381	6.20	395007	7.29	
680-88420-15	FM0004A-CS	353027	6.20	376092	7.29	
680-88420-16	FM0004A-CSD	329663	6.20	370842	7.29	
680-88420-18	FM0004C-CS	411116	6.20	451690	7.30	
680-88420-19	CV1035A-CS	419691	6.20	479077	7.30	

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.: 680-88420-1  
 SDG No.: 68088420-1  
 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.: 680-88420-1  
 SDG No.: 68088420-1  
 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.: 680-88420-1  
 SDG No.: 68088420-1  
 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						
680-88420-12 MS	CV1151A-CS-SP MS	748184	3.73	600094	4.82	1084844	5.76
680-88420-17	FM0004B-CS	784553	3.73	611212	4.82	1104604	5.76
680-88420-20	CV1035B-CS	790291	3.73	617162	4.82	1095902	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.: 680-88420-1  
 SDG No.: 68088420-1  
 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					
680-88420-12 MS	CV1151A-CS-SP MS		1208629	7.71	1100846	8.89
680-88420-17	FM0004B-CS		1174582	7.70	1109889	8.89
680-88420-20	CV1035B-CS		1170999	7.70	1142902	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.: 680-88420-1  
 SDG No.: 68088420-1  
 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.: 680-88420-1  
 SDG No.: 68088420-1  
 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.: 680-88420-1  
 SDG No.: 68088420-1  
 Sample No.: CCVIS 660-135792/3 Date Analyzed: 03/26/2013 10:32  
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1DC26003.D Heated Purge: (Y/N) N  
 Calibration ID: 2761

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	2497630	6.13	1612962	7.80	2599869	9.06
UPPER LIMIT	4995260	6.63	3225924	8.30	5199738	9.56
LOWER LIMIT	1248815	5.63	806481	7.30	1299935	8.56
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 660-135608/2-A	2516080	6.12	1553509	7.80	2507241	9.06

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.: 680-88420-1  
 SDG No.: 68088420-1  
 Sample No.: CCVIS 660-135792/3 Date Analyzed: 03/26/2013 10:32  
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1DC26003.D Heated Purge: (Y/N) N  
 Calibration ID: 2761

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	2607802	11.40	2561814	13.27		
UPPER LIMIT	5215604	11.90	5123628	13.77		
LOWER LIMIT	1303901	10.90	1280907	12.77		
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 660-135608/2-A	2480279	11.40	2523561	13.26		

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.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: CV0200A-CS-SP Lab Sample ID: 680-88420-1  
 Matrix: Solid Lab File ID: 1AC21021.D  
 Analysis Method: 8270C LL Date Collected: 03/14/2013 09:01  
 Extract. Method: 3546 Date Extracted: 03/21/2013 08:38  
 Sample wt/vol: 15.02(g) Date Analyzed: 03/21/2013 20:14  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 25.8 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135630 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	540	U	540	110
208-96-8	Acenaphthylene	220	U	220	27
120-12-7	Anthracene	45	U	45	23
56-55-3	Benzo[a]anthracene	200		43	21
50-32-8	Benzo[a]pyrene	130		56	28
205-99-2	Benzo[b]fluoranthene	600		66	33
191-24-2	Benzo[g,h,i]perylene	130		110	24
207-08-9	Benzo[k]fluoranthene	120		43	19
218-01-9	Chrysene	240		48	24
53-70-3	Dibenz(a,h)anthracene	51	J	110	22
206-44-0	Fluoranthene	180		110	22
86-73-7	Fluorene	110	U	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	110		110	38
90-12-0	1-Methylnaphthalene	48	J	220	24
91-57-6	2-Methylnaphthalene	390		220	38
91-20-3	Naphthalene	58	J	220	24
85-01-8	Phenanthrene	120		43	21
129-00-0	Pyrene	190		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	54		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\1AC21021.D  
 Lab Smp Id: 680-88420-A-1-A Client Smp ID: CV0200A-CS-SP  
 Inj Date : 21-MAR-2013 20:14  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-88420-a-1-a  
 Misc Info : 680-88420-A-1-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\a-bFASTPAHi-m.m  
 Meth Date : 21-Mar-2013 17:07 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D  
 Als bottle: 16  
 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	25.814	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.289	2.282	(1.000)	490031	40.0000		
* 6 Acenaphthene-d10	164		3.304	3.302	(1.000)	350537	40.0000		
* 10 Phenanthrene-d10	188		4.223	4.221	(1.000)	530275	40.0000		
\$ 14 o-Terphenyl	230		4.496	4.499	(1.065)	8776	1.35711	487.1720	
* 18 Chrysene-d12	240		6.216	6.208	(1.000)	451583	40.0000		
* 23 Perylene-d12	264		7.305	7.292	(1.000)	509453	40.0000		
2 Naphthalene	128		2.295	2.292	(1.002)	1824	0.16111	57.8354(Q)	
3 2-Methylnaphthalene	141		2.701	2.693	(1.180)	1384	1.08017	387.7565	
4 1-Methylnaphthalene	142		2.749	2.752	(1.201)	867	0.13318	47.8084(H)	
11 Phenanthrene	178		4.234	4.237	(1.003)	4388	0.32650	117.2048	
15 Fluoranthene	202		5.083	5.081	(1.204)	6736	0.50704	182.0151	
16 Pyrene	202		5.243	5.246	(0.844)	6840	0.52827	189.6372	
17 Benzo(a)anthracene	228		6.205	6.197	(0.998)	5045	0.55361	198.7331(Q)	
19 Chrysene	228		6.226	6.224	(1.002)	7740	0.66176	237.5555	

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====		=====	=====	=====	=====	=====	
20 Benzo(b)fluoranthene	252		7.017	7.015	(0.961)	6518	1.66701	598.4191(M)
21 Benzo(k)fluoranthene	252		7.028	7.036	(0.962)	4624	0.33649	120.7908(QM)
22 Benzo(a)pyrene	252		7.247	7.244	(0.992)	4183	0.34987	125.5961
24 Indeno(1,2,3-cd)pyrene	276		7.995	7.987	(1.094)	3424	0.31740	113.9382(M)
25 Dibenzo(a,h)anthracene	278		8.000	7.998	(1.095)	1532	0.14329	51.4374
26 Benzo(g,h,i)perylene	276		8.176	8.169	(1.119)	3947	0.36348	130.4803

QC Flag Legend

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

Data File: 1AC21021.D

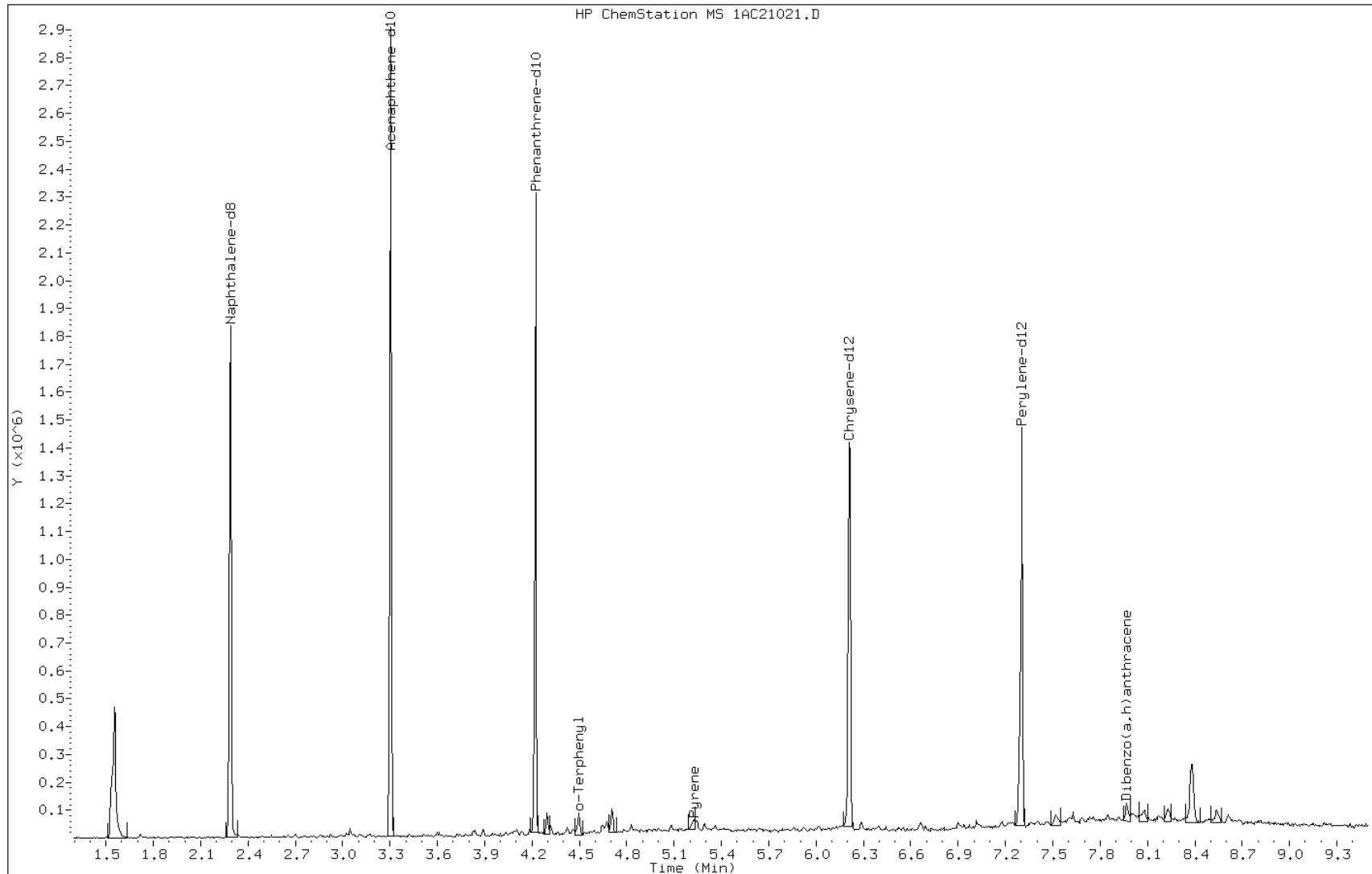
Date: 21-MAR-2013 20:14

Client ID: CV0200A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-1-a

Operator: SCC



Data File: 1AC21021.D

Date: 21-MAR-2013 20:14

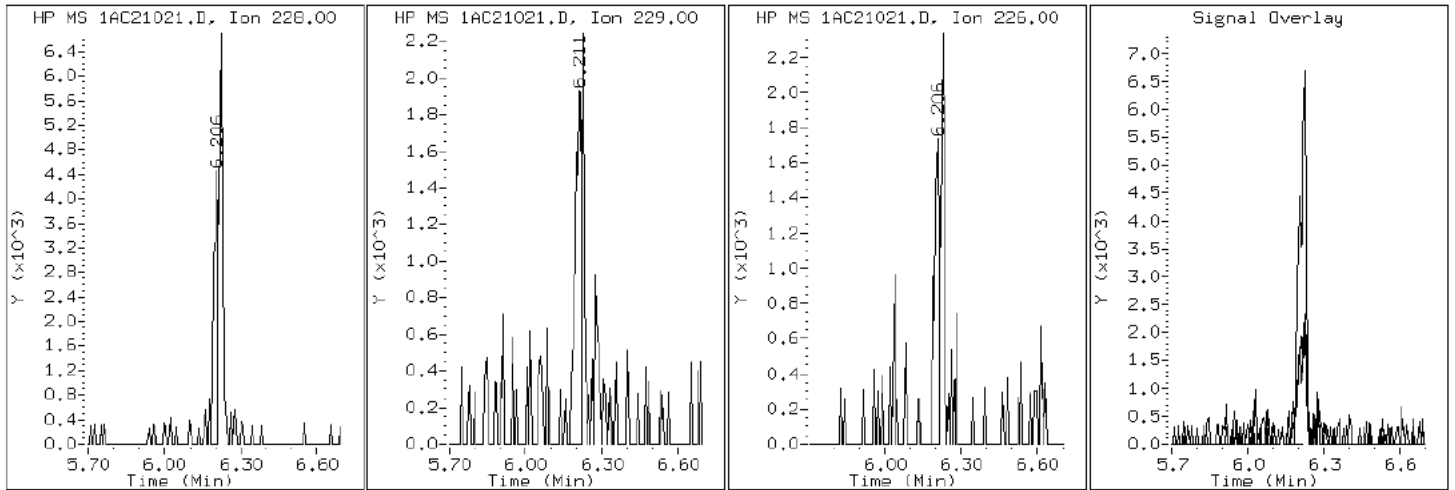
Client ID: CV0200A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-1-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC21021.D

Date: 21-MAR-2013 20:14

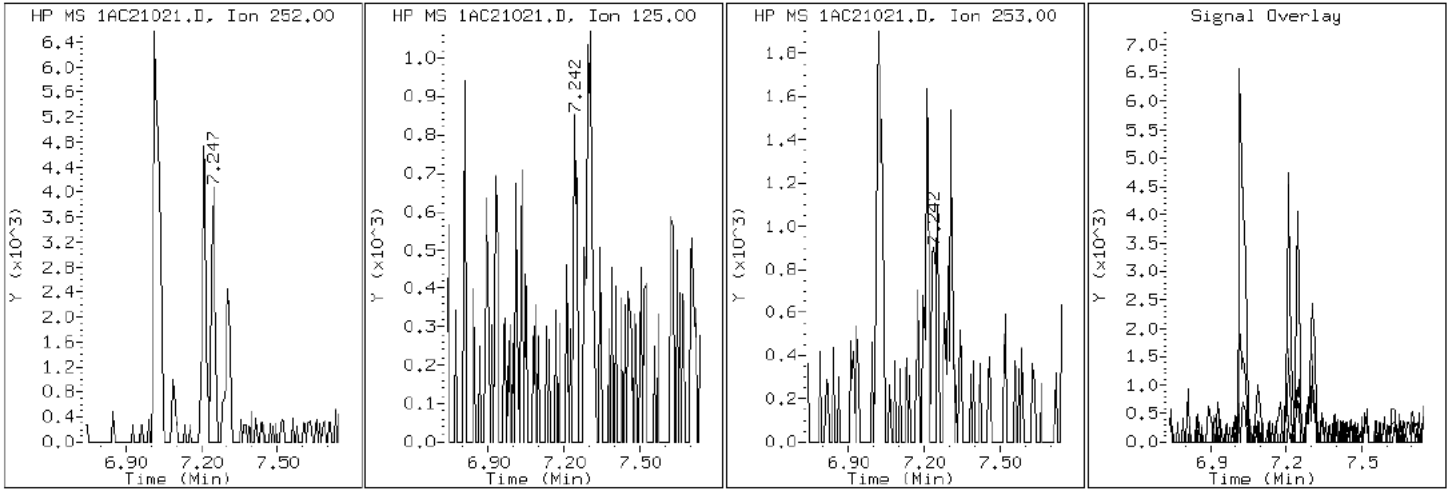
Client ID: CV0200A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-1-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC21021.D

Date: 21-MAR-2013 20:14

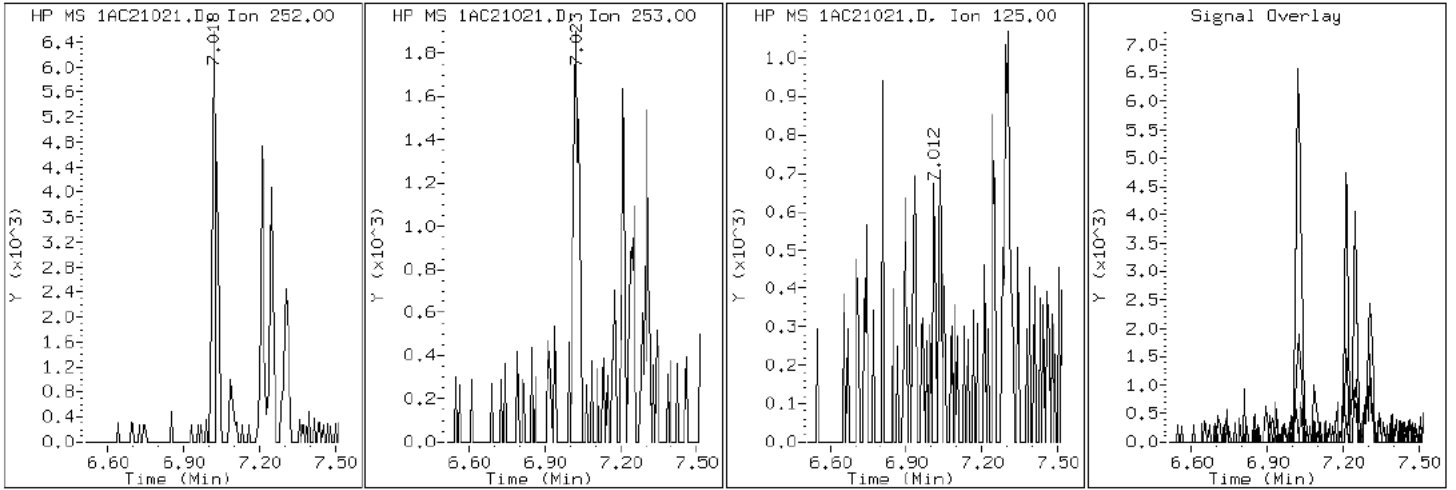
Client ID: CV0200A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-1-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC21021.D

Date: 21-MAR-2013 20:14

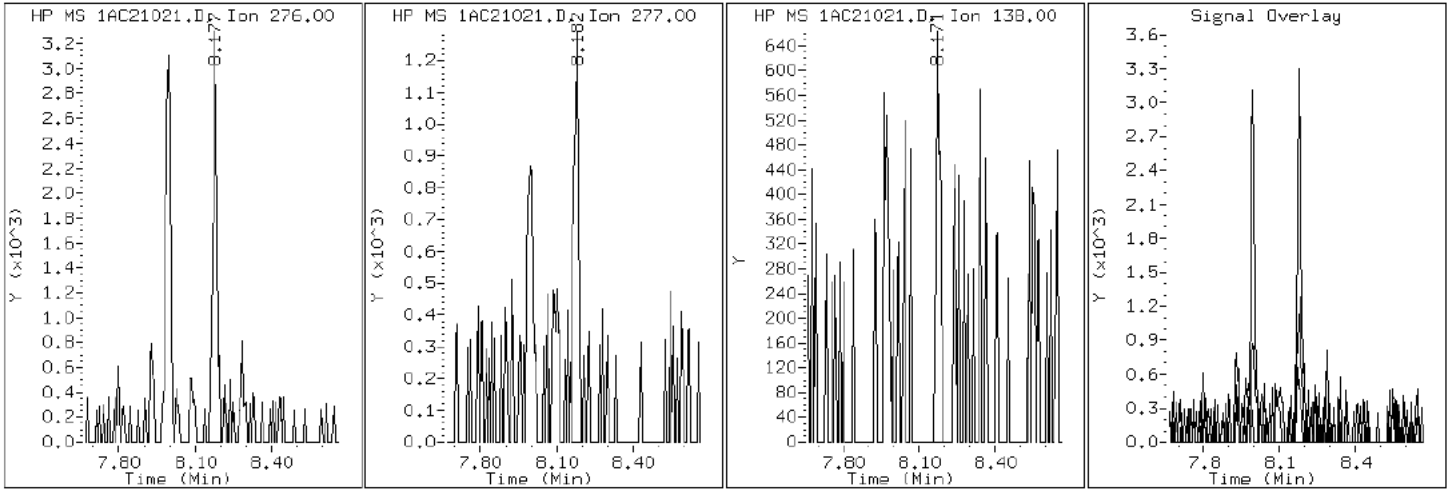
Client ID: CV0200A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-1-a

Operator: SCC

26 Benzo(g,h,i)perylene





Data File: 1AC21021.D

Date: 21-MAR-2013 20:14

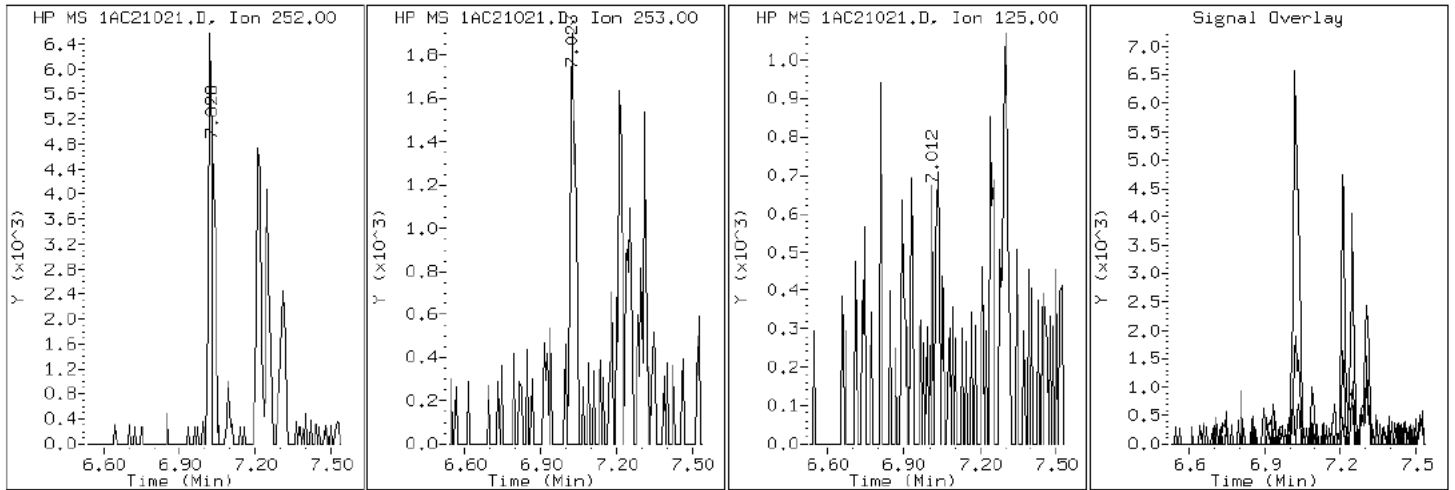
Client ID: CV0200A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-1-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC21021.D

Date: 21-MAR-2013 20:14

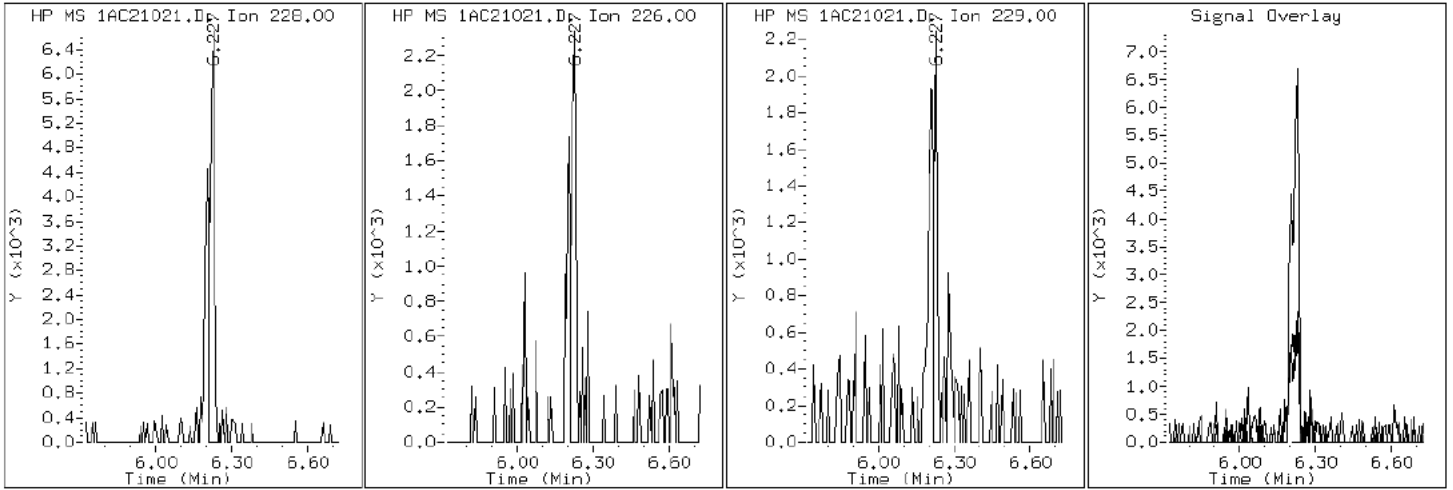
Client ID: CV0200A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-1-a

Operator: SCC

19 Chrysene



Data File: 1AC21021.D

Date: 21-MAR-2013 20:14

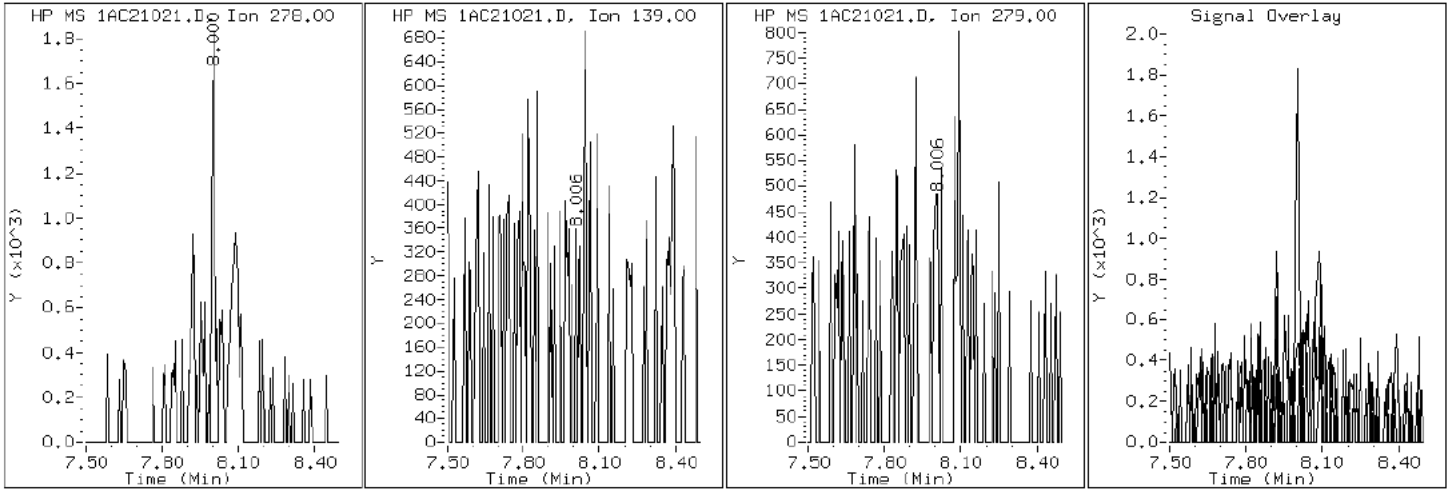
Client ID: CV0200A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-1-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC21021.D

Date: 21-MAR-2013 20:14

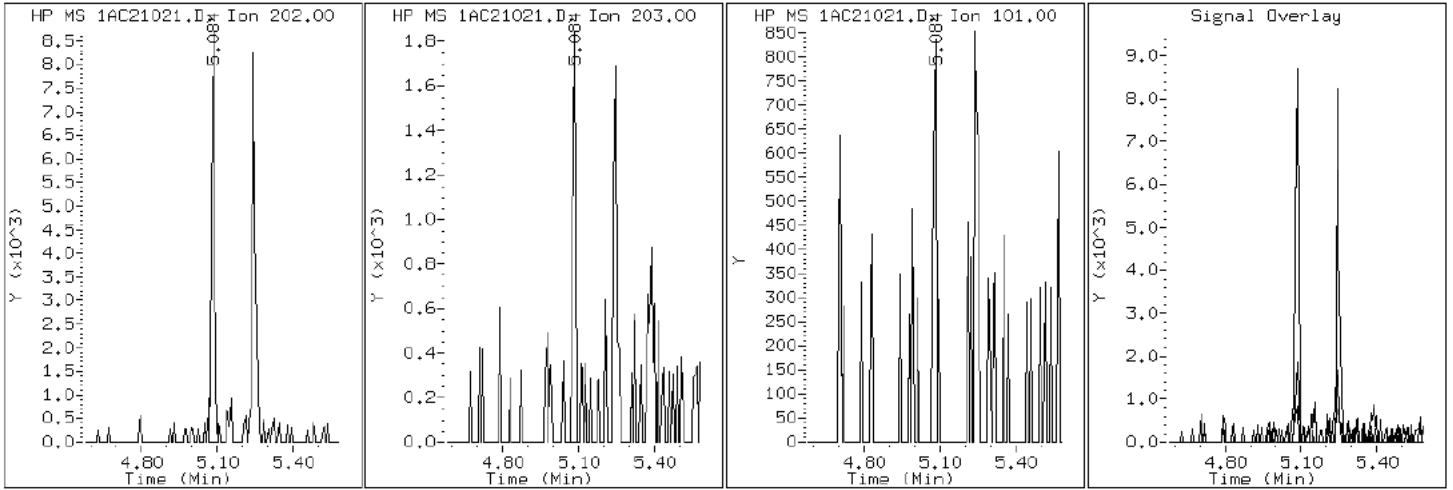
Client ID: CV0200A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-1-a

Operator: SCC

15 Fluoranthene



Data File: 1AC21021.D

Date: 21-MAR-2013 20:14

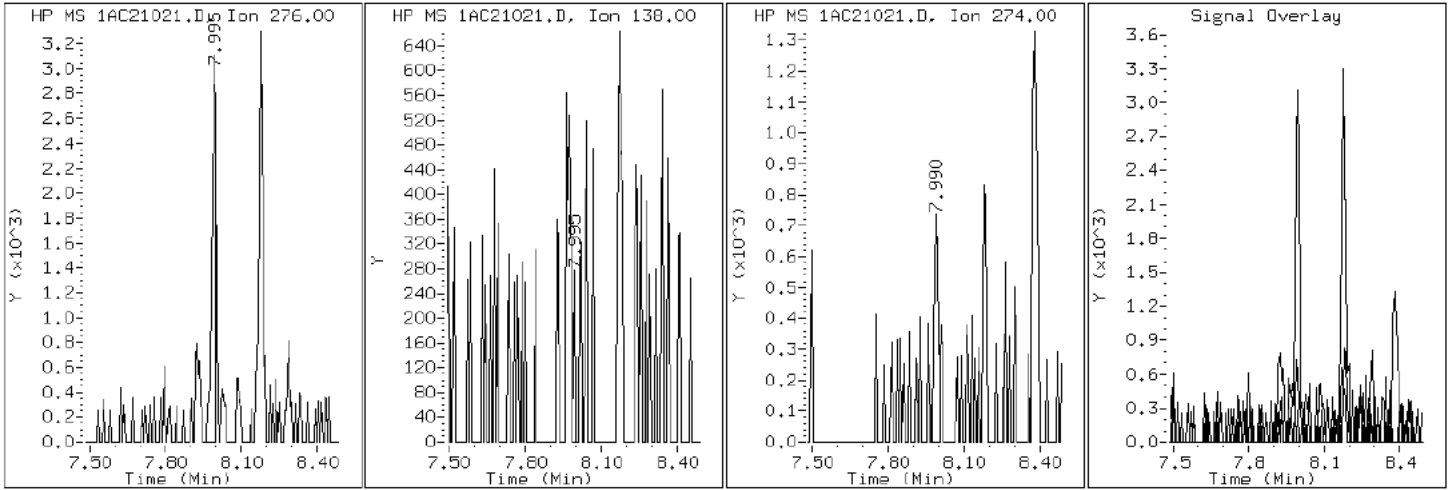
Client ID: CV0200A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-1-a

Operator: SCC

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



Data File: 1AC21021.D

Date: 21-MAR-2013 20:14

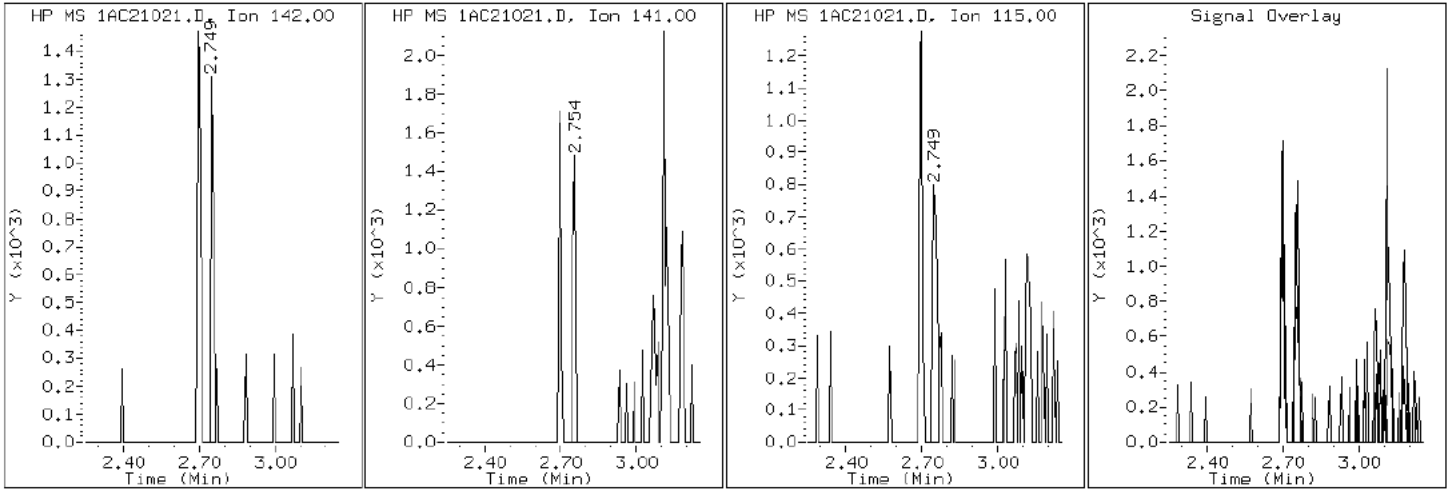
Client ID: CV0200A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-1-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC21021.D

Date: 21-MAR-2013 20:14

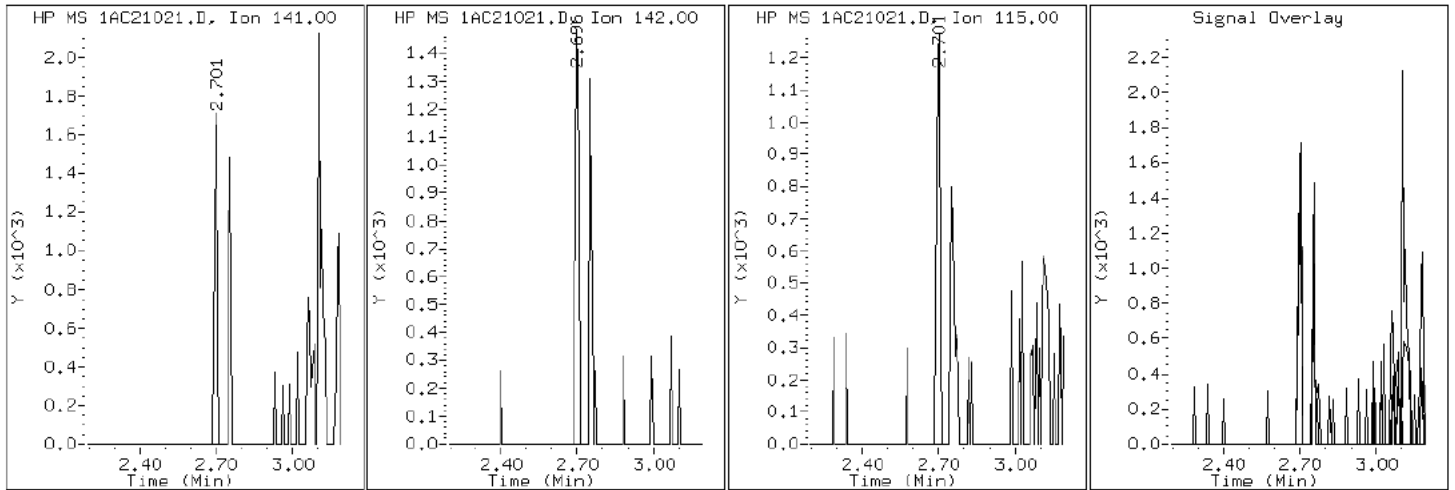
Client ID: CV0200A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-1-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC21021.D

Date: 21-MAR-2013 20:14

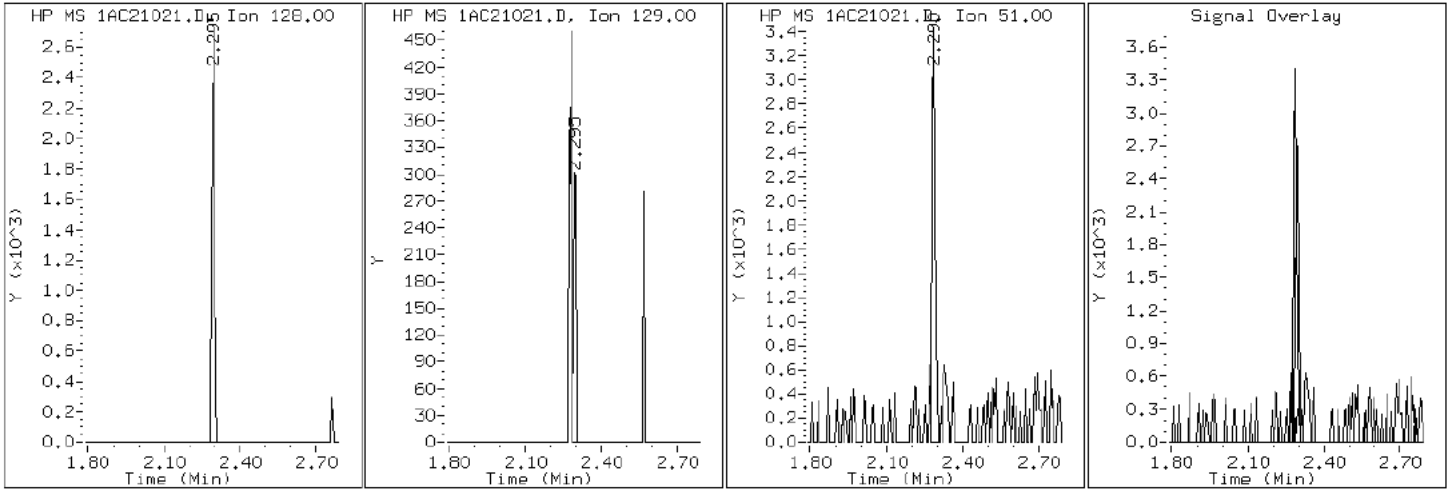
Client ID: CV0200A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-1-a

Operator: SCC

2 Naphthalene





Data File: 1AC21021.D

Date: 21-MAR-2013 20:14

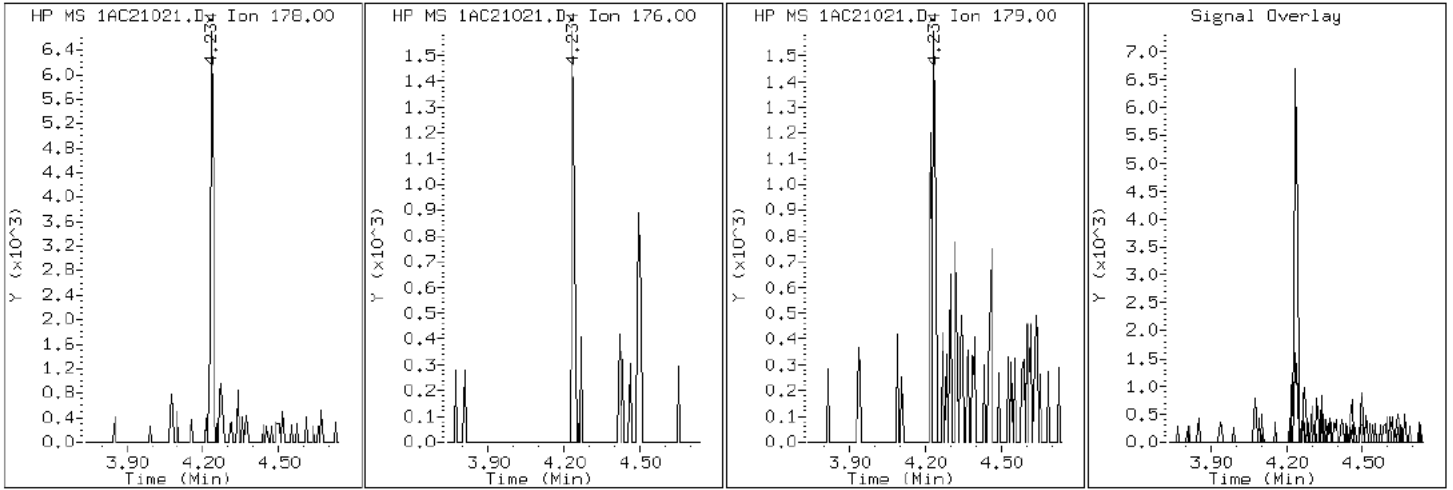
Client ID: CV0200A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-1-a

Operator: SCC

11 Phenanthrene



Data File: 1AC21021.D

Date: 21-MAR-2013 20:14

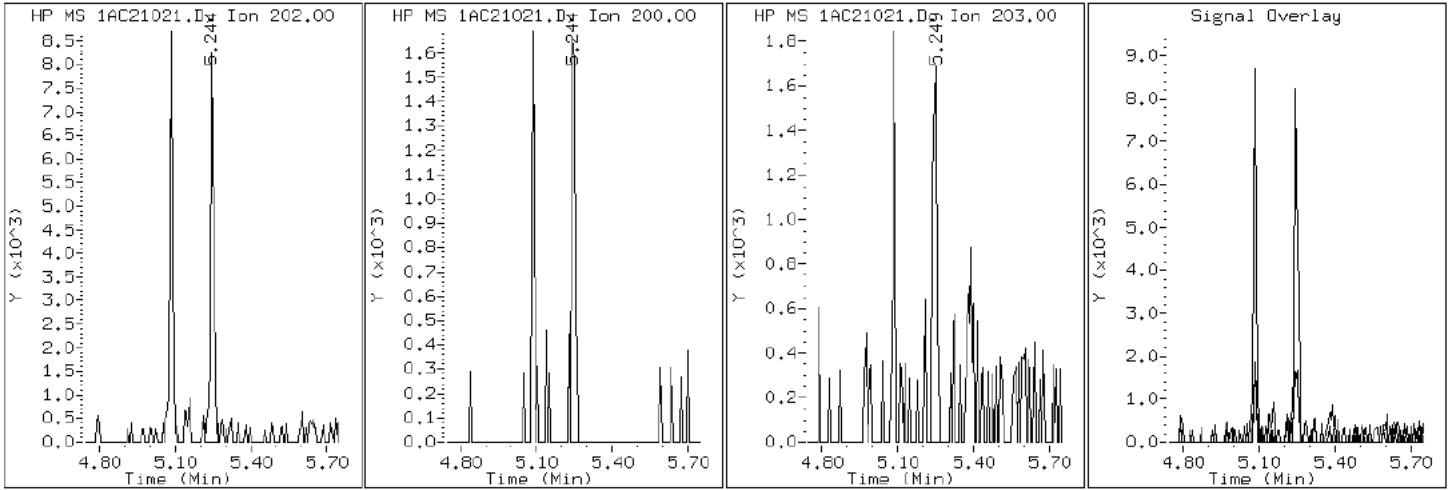
Client ID: CV0200A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-1-a

Operator: SCC

16 Pyrene

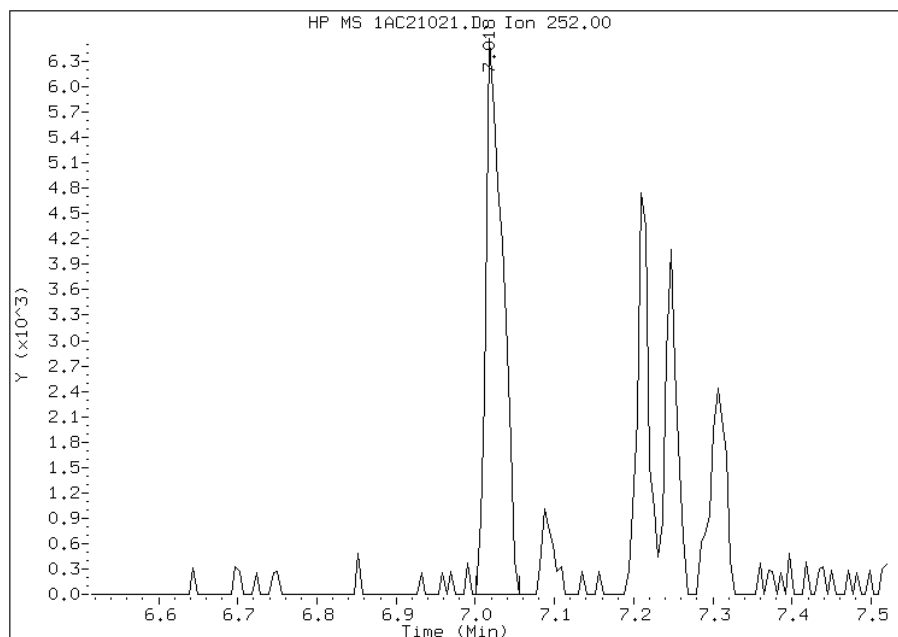


# Manual Integration Report

Data File: 1AC21021.D  
Inj. Date and Time: 21-MAR-2013 20:14  
Instrument ID: BSMA5973.i  
Client ID: CV0200A-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 03/26/2013

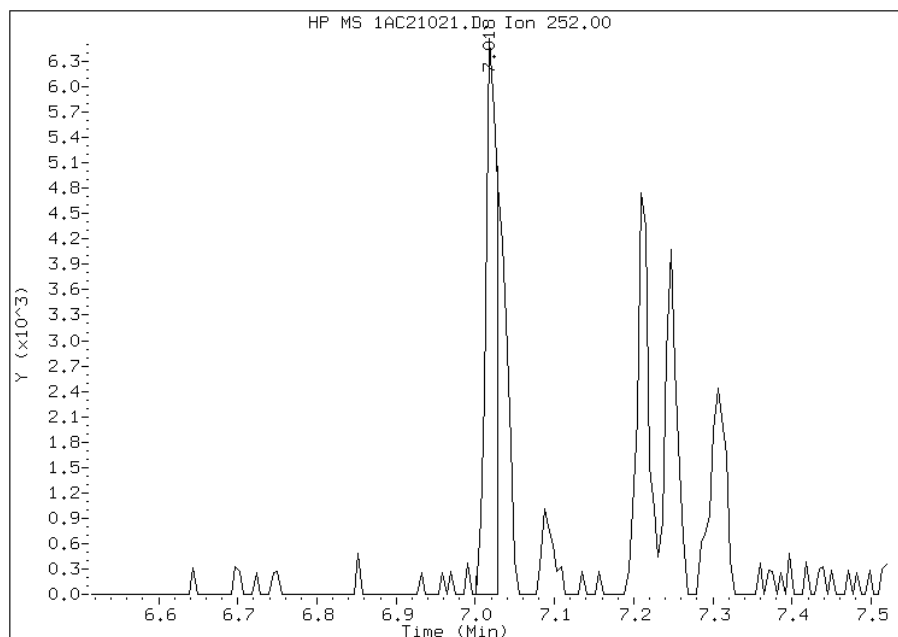
## Processing Integration Results

RT: 7.02  
Response: 9589  
Amount: 2  
Conc: 677



## Manual Integration Results

RT: 7.02  
Response: 6518  
Amount: 2  
Conc: 598



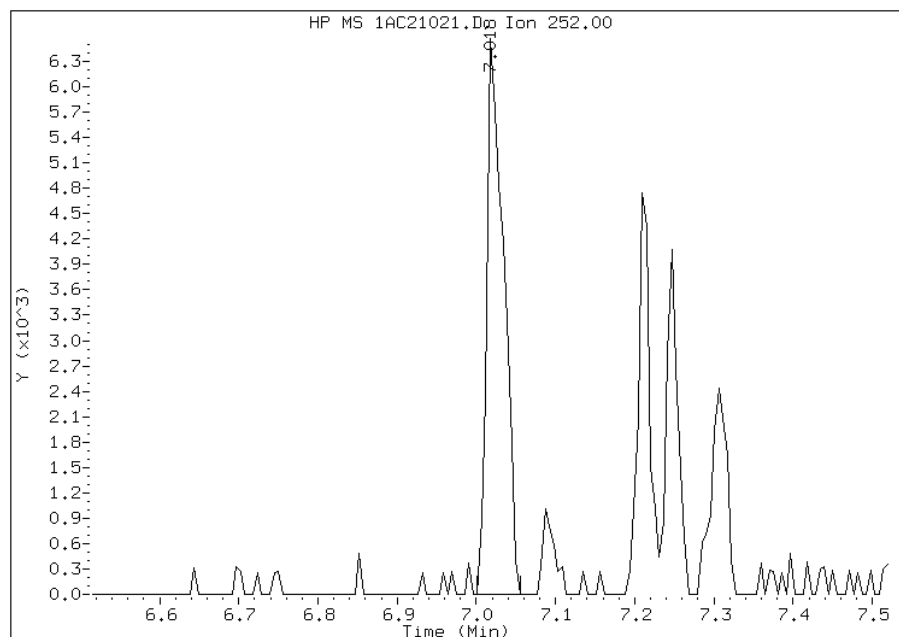
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:31  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AC21021.D  
Inj. Date and Time: 21-MAR-2013 20:14  
Instrument ID: BSMA5973.i  
Client ID: CV0200A-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 03/26/2013

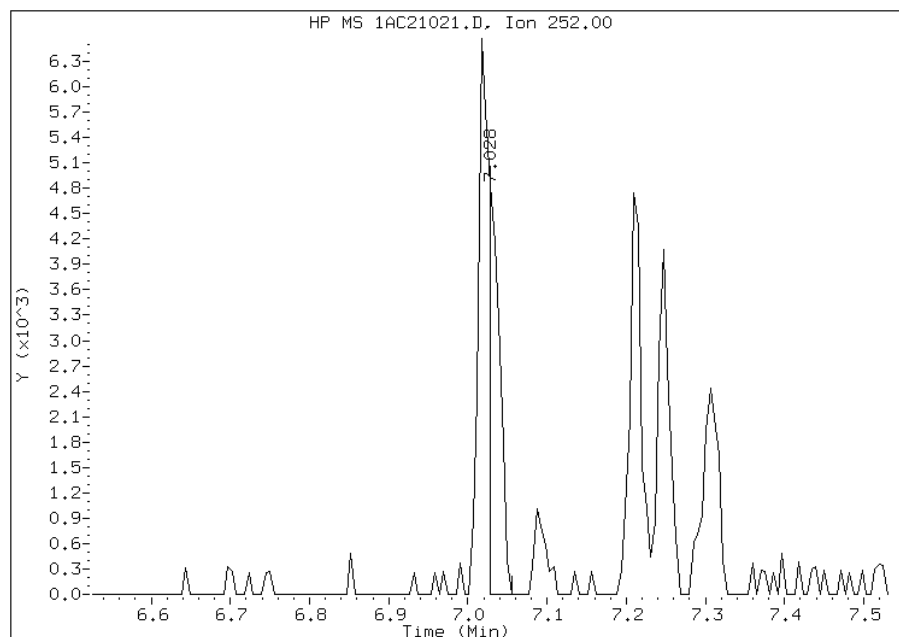
## Processing Integration Results

RT: 7.02  
Response: 9589  
Amount: 1  
Conc: 250



## Manual Integration Results

RT: 7.03  
Response: 4624  
Amount: 0  
Conc: 121



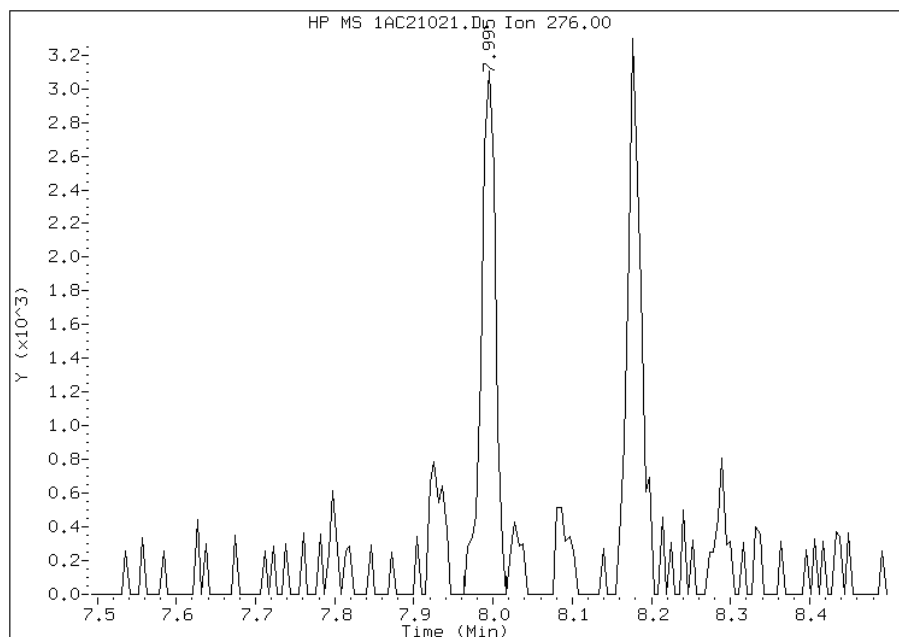
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:31  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AC21021.D  
Inj. Date and Time: 21-MAR-2013 20:14  
Instrument ID: BSMA5973.i  
Client ID: CV0200A-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/26/2013

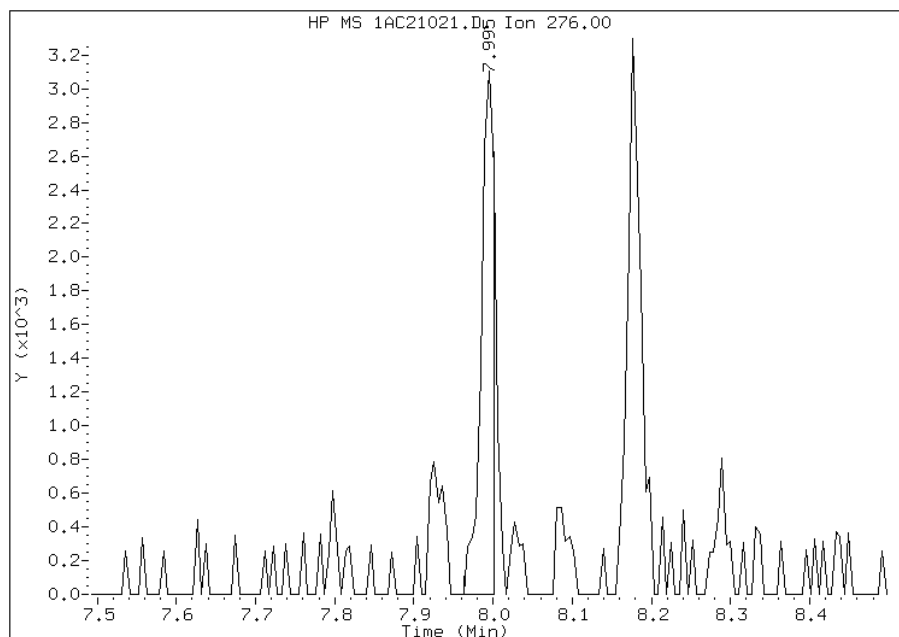
## Processing Integration Results

RT: 8.00  
Response: 3830  
Amount: 0  
Conc: 127



## Manual Integration Results

RT: 8.00  
Response: 3424  
Amount: 0  
Conc: 114



Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:32  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: CV0200B-CS-SP Lab Sample ID: 680-88420-2  
 Matrix: Solid Lab File ID: 1AC21022.D  
 Analysis Method: 8270C LL Date Collected: 03/14/2013 09:16  
 Extract. Method: 3546 Date Extracted: 03/21/2013 08:38  
 Sample wt/vol: 15.18(g) Date Analyzed: 03/21/2013 20:29  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 26.8 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135630 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	27
208-96-8	Acenaphthylene	54	U	54	6.8
120-12-7	Anthracene	25		11	5.7
56-55-3	Benzo[a]anthracene	100		11	5.3
50-32-8	Benzo[a]pyrene	56		14	7.0
205-99-2	Benzo[b]fluoranthene	220		16	8.2
191-24-2	Benzo[g,h,i]perylene	71		27	5.9
207-08-9	Benzo[k]fluoranthene	31		11	4.9
218-01-9	Chrysene	140		12	6.1
53-70-3	Dibenz(a,h)anthracene	29		27	5.5
206-44-0	Fluoranthene	110		27	5.4
86-73-7	Fluorene	27	U	27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	61		27	9.6
90-12-0	1-Methylnaphthalene	42	J	54	5.9
91-57-6	2-Methylnaphthalene	140		54	9.6
91-20-3	Naphthalene	53	J	54	5.9
85-01-8	Phenanthrene	120		11	5.3
129-00-0	Pyrene	110		27	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	44		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\1AC21022.D  
 Lab Smp Id: 680-88420-A-2-A Client Smp ID: CV0200B-CS-SP  
 Inj Date : 21-MAR-2013 20:29  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-88420-a-2-a  
 Misc Info : 680-88420-A-2-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\a-bFASTPAHi-m.m  
 Meth Date : 21-Mar-2013 17:07 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.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	15.180	Weight Extracted
M	26.828	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.284	2.282	(1.000)	518690	40.0000		
* 6 Acenaphthene-d10	164		3.305	3.302	(1.000)	412566	40.0000		
* 10 Phenanthrene-d10	188		4.224	4.221	(1.000)	533445	40.0000		
\$ 14 o-Terphenyl	230		4.496	4.499	(1.064)	30323	4.41938	397.8741	
* 18 Chrysene-d12	240		6.222	6.208	(1.000)	482669	40.0000		
* 23 Perylene-d12	264		7.311	7.292	(1.000)	628601	40.0000		
2 Naphthalene	128		2.295	2.292	(1.005)	7081	0.59090	53.1980	
3 2-Methylnaphthalene	141		2.696	2.693	(1.180)	4779	1.53096	137.8315	
4 1-Methylnaphthalene	142		2.749	2.752	(1.203)	3177	0.46105	41.5083	
11 Phenanthrene	178		4.234	4.237	(1.003)	17298	1.27944	115.1869	
12 Anthracene	178		4.266	4.269	(1.010)	3682	0.28087	25.2862	
13 Carbazole	167		4.432	4.424	(1.049)	1932	0.16814	15.1379(Q)	
15 Fluoranthene	202		5.084	5.081	(1.204)	16139	1.20761	108.7201	
16 Pyrene	202		5.249	5.246	(0.844)	16804	1.21423	109.3163	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		-----	-----	-----	-----	-----	-----
17 Benzo(a)anthracene	228		6.211	6.197	(0.998)	13367	1.12337	101.1361
19 Chrysene	228		6.232	6.224	(1.002)	19071	1.52552	137.3417
20 Benzo(b)fluoranthene	252		7.028	7.015	(0.961)	21406	2.43853	219.5394(M)
21 Benzo(k)fluoranthene	252		7.039	7.036	(0.963)	5901	0.34802	31.3319(QM)
22 Benzo(a)pyrene	252		7.253	7.244	(0.992)	9110	0.61754	55.5971
24 Indeno(1,2,3-cd)pyrene	276		8.006	7.987	(1.095)	9018	0.67750	60.9946(M)
25 Dibenzo(a,h)anthracene	278		8.006	7.998	(1.095)	4217	0.31966	28.7786
26 Benzo(g,h,i)perylene	276		8.187	8.169	(1.120)	10558	0.78799	70.9423

QC Flag Legend

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



Data File: 1AC21022.D

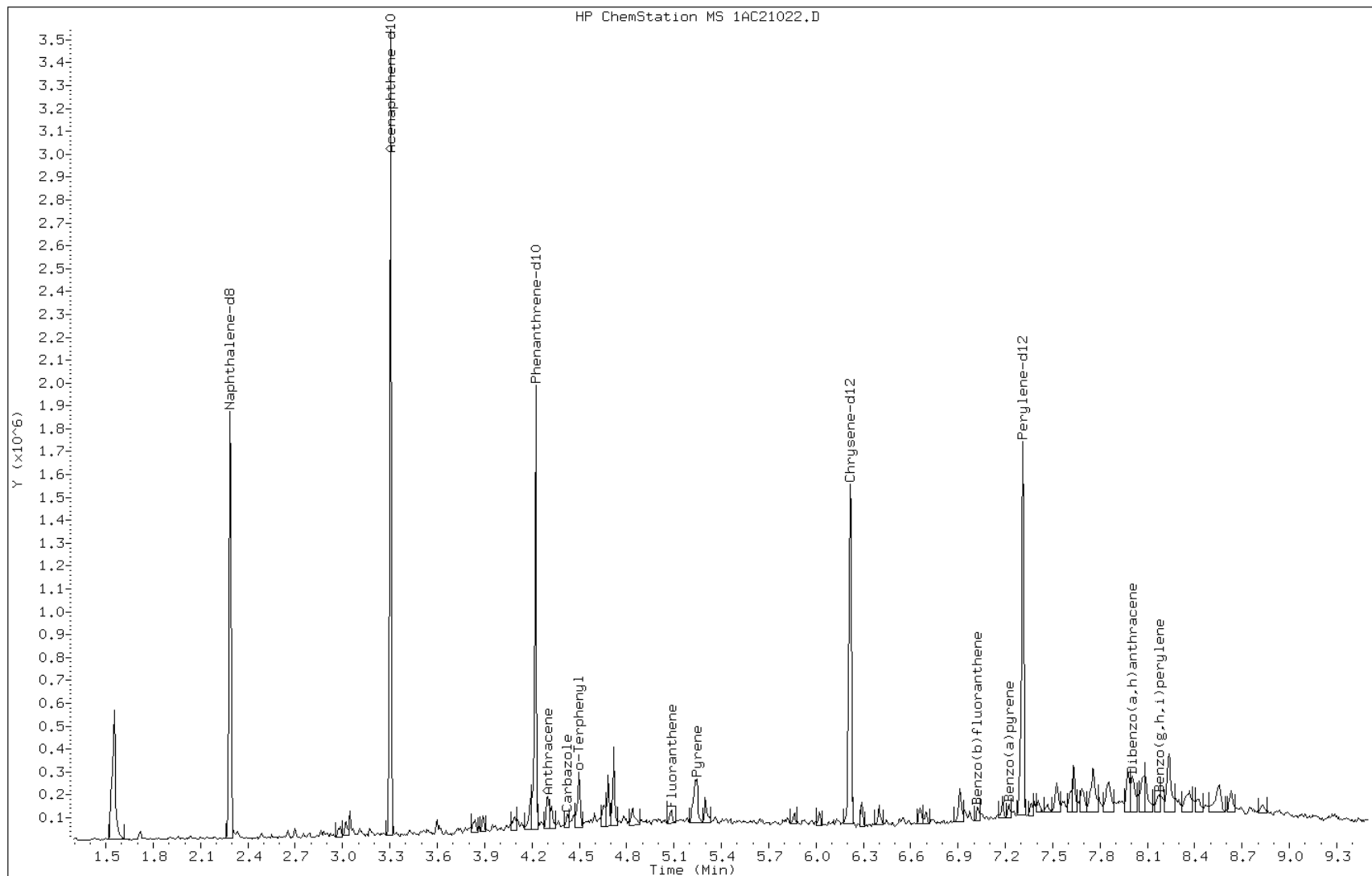
Date: 21-MAR-2013 20:29

Client ID: CV0200B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-2-a

Operator: SCC



Data File: 1AC21022.D

Date: 21-MAR-2013 20:29

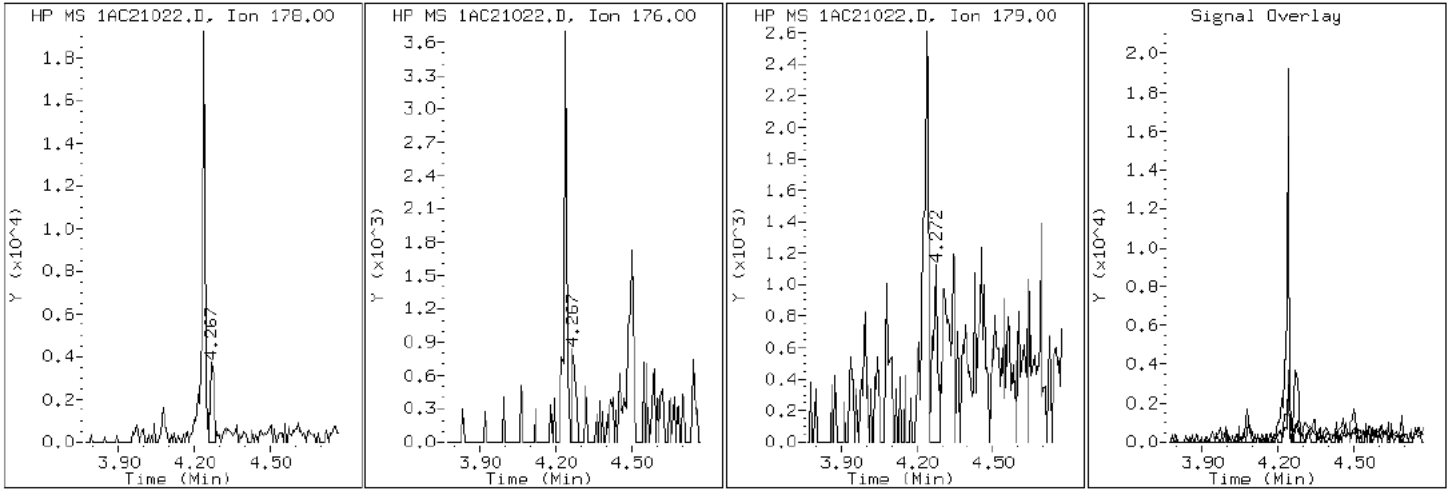
Client ID: CV0200B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-2-a

Operator: SCC

12 Anthracene



Data File: 1AC21022.D

Date: 21-MAR-2013 20:29

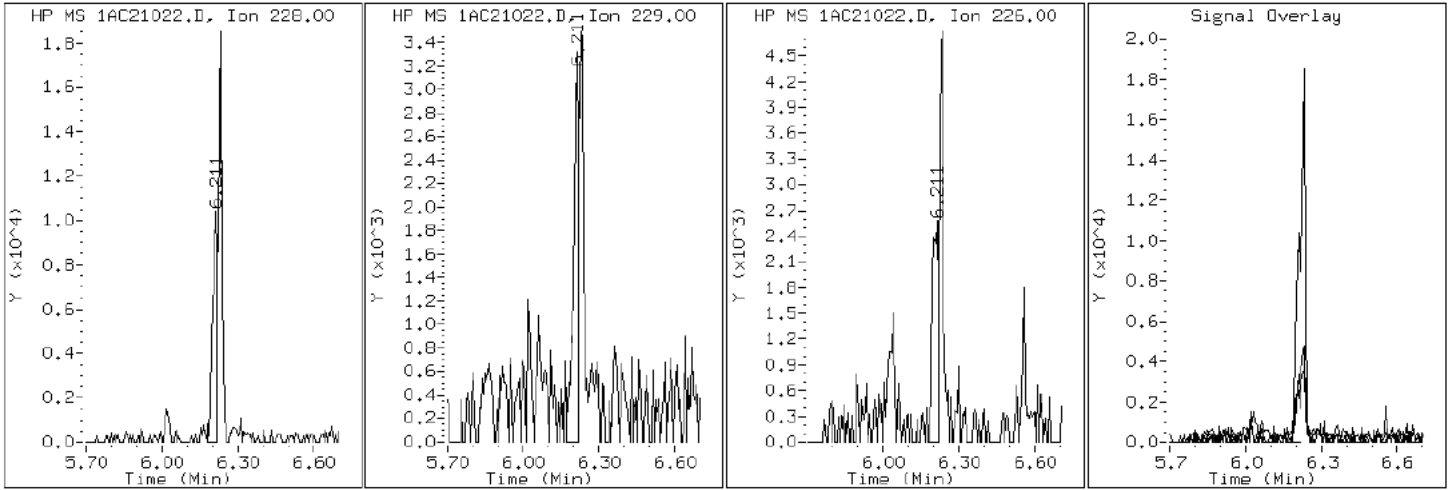
Client ID: CV0200B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-2-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC21022.D

Date: 21-MAR-2013 20:29

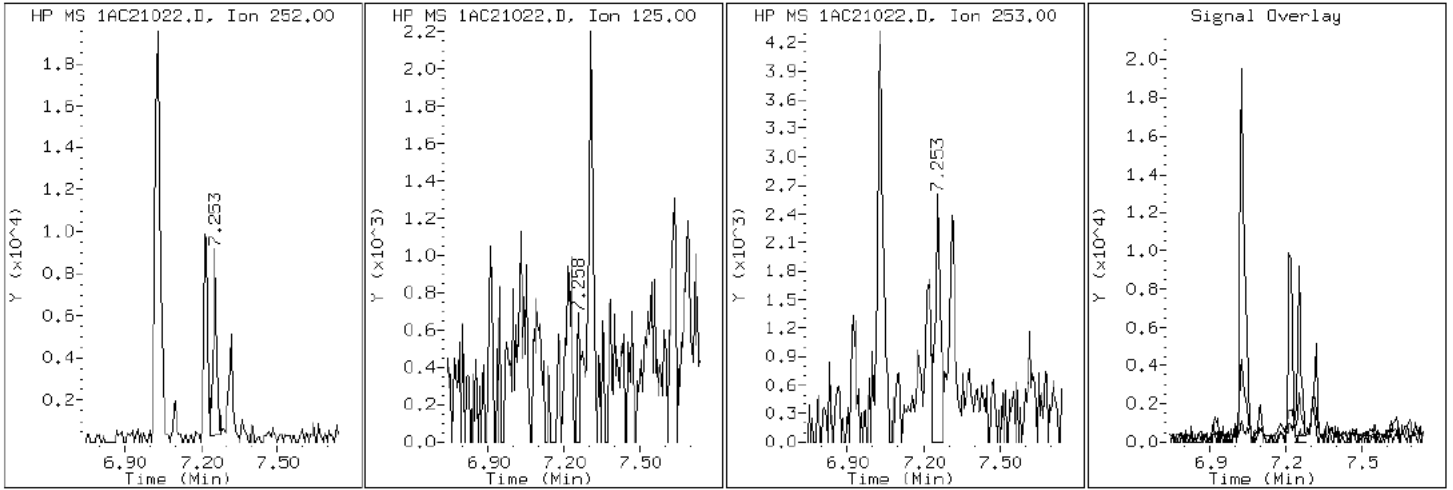
Client ID: CV0200B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-2-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC21022.D

Date: 21-MAR-2013 20:29

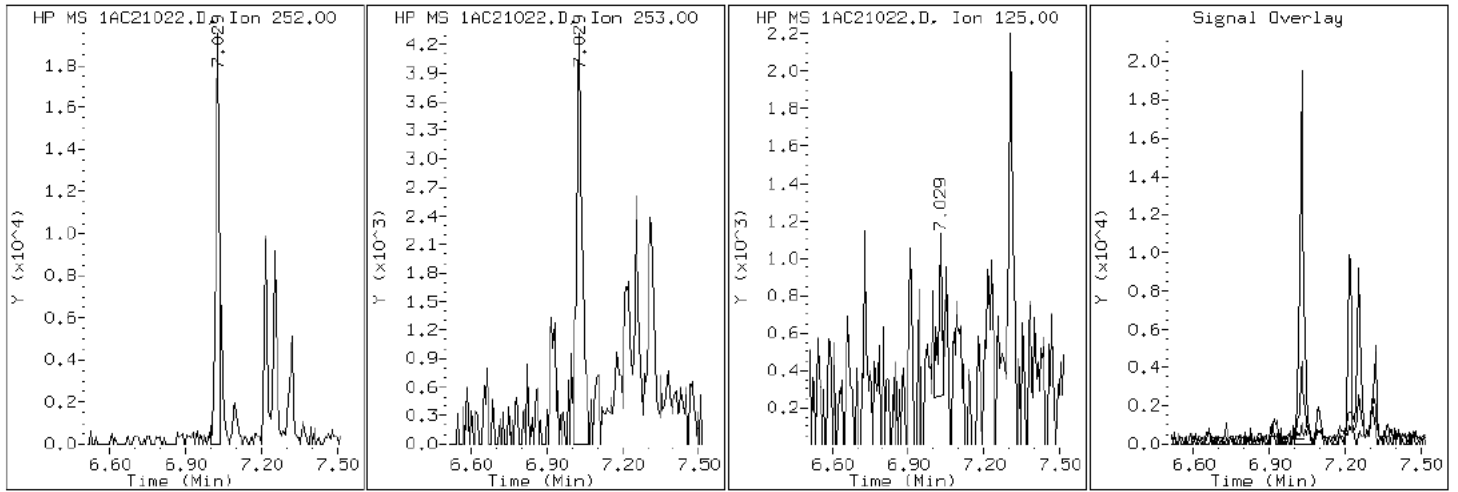
Client ID: CV0200B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-2-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC21022.D

Date: 21-MAR-2013 20:29

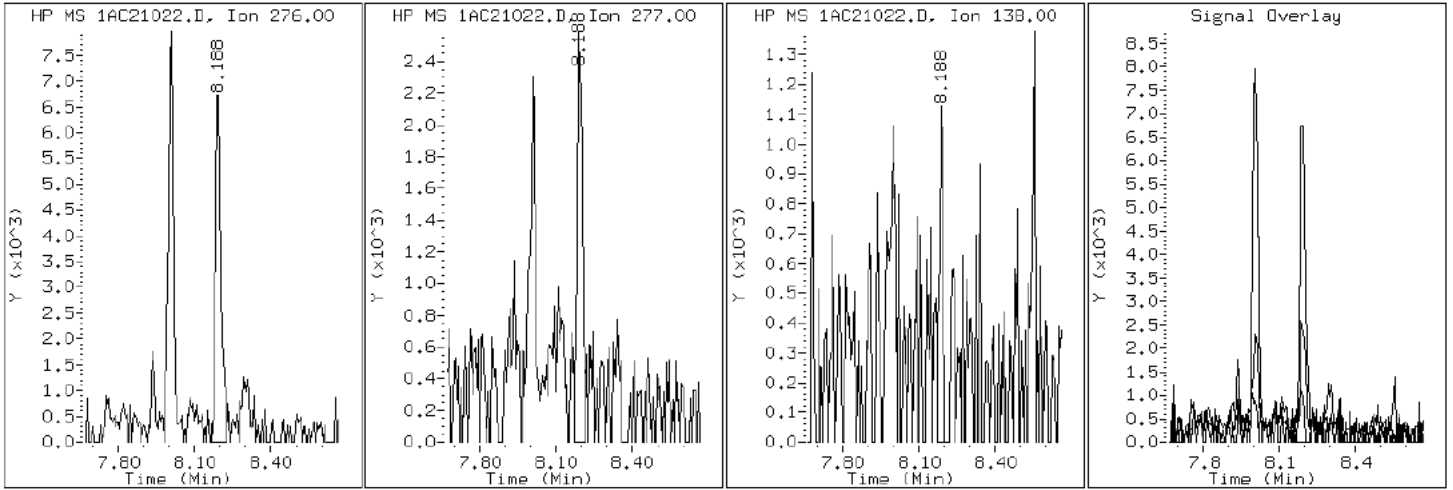
Client ID: CV0200B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-2-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC21022.D

Date: 21-MAR-2013 20:29

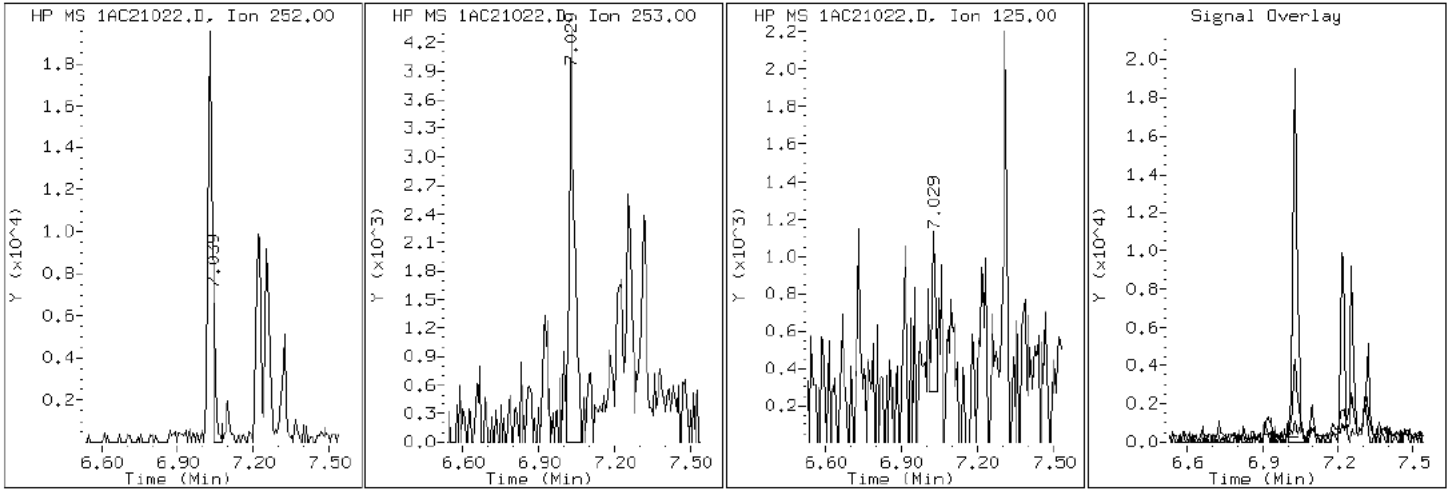
Client ID: CV0200B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-2-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC21022.D

Date: 21-MAR-2013 20:29

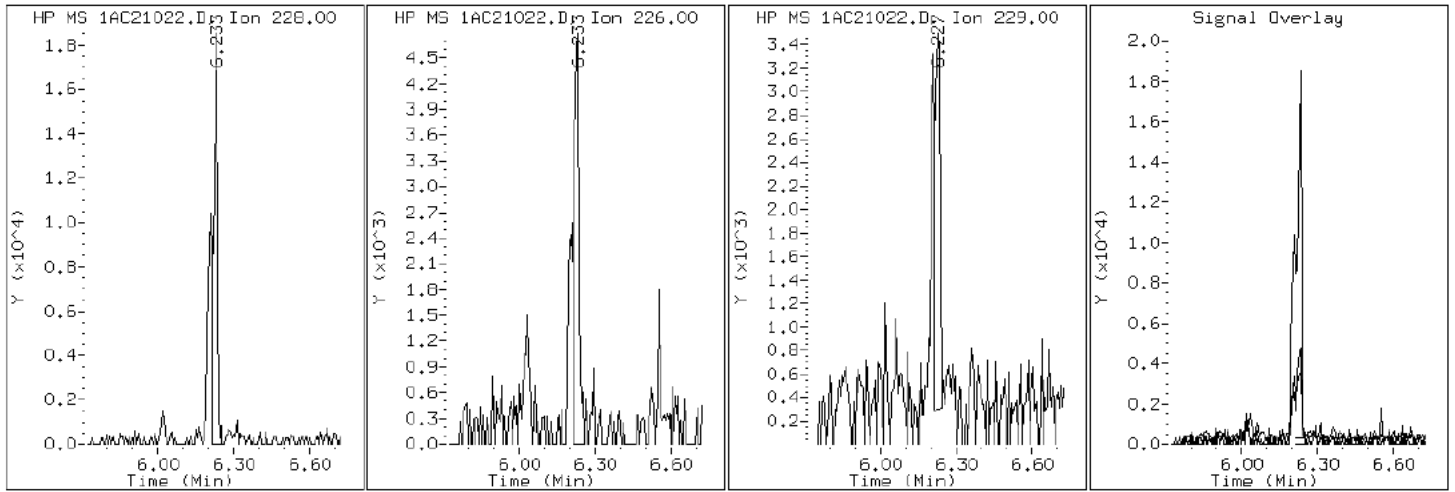
Client ID: CV0200B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-2-a

Operator: SCC

19 Chrysene





Data File: 1AC21022.D

Date: 21-MAR-2013 20:29

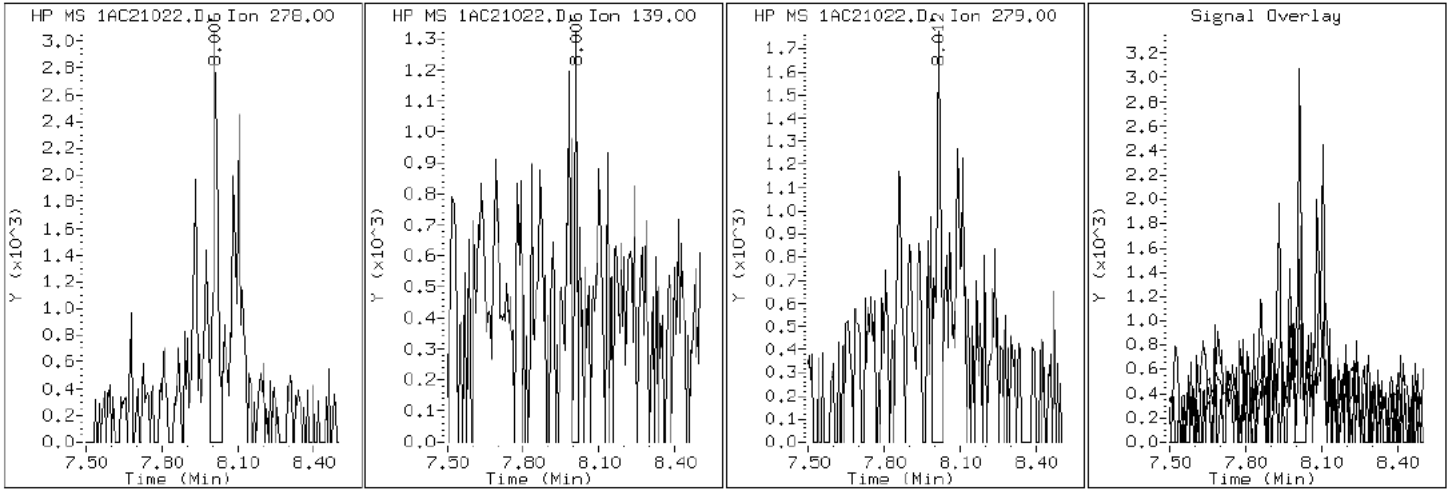
Client ID: CV0200B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-2-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC21022.D

Date: 21-MAR-2013 20:29

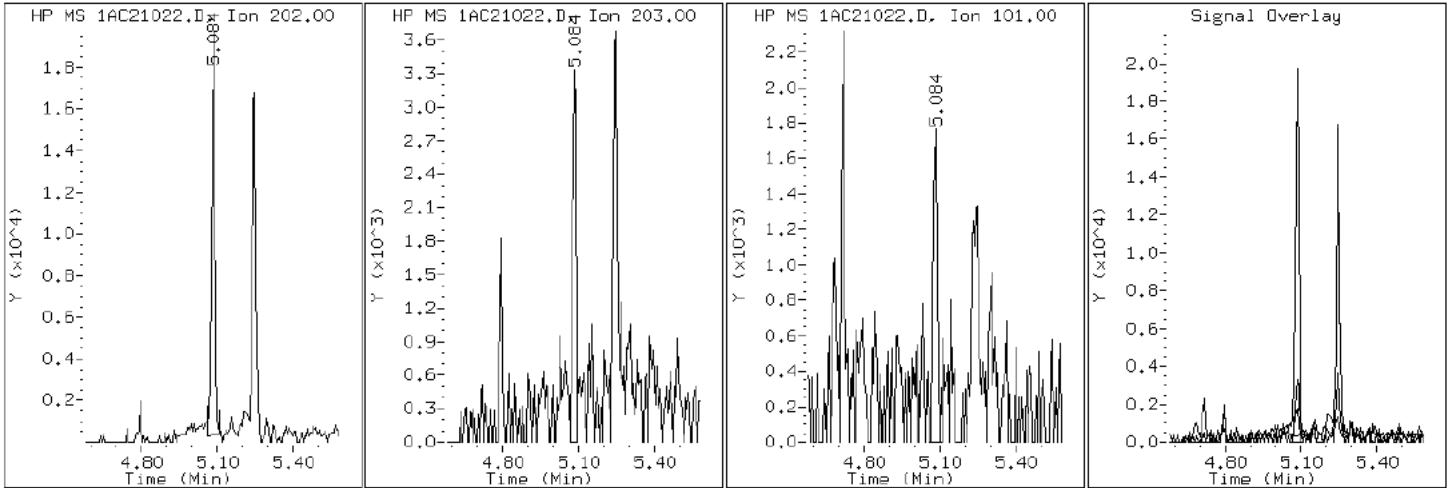
Client ID: CV0200B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-2-a

Operator: SCC

15 Fluoranthene



Data File: 1AC21022.D

Date: 21-MAR-2013 20:29

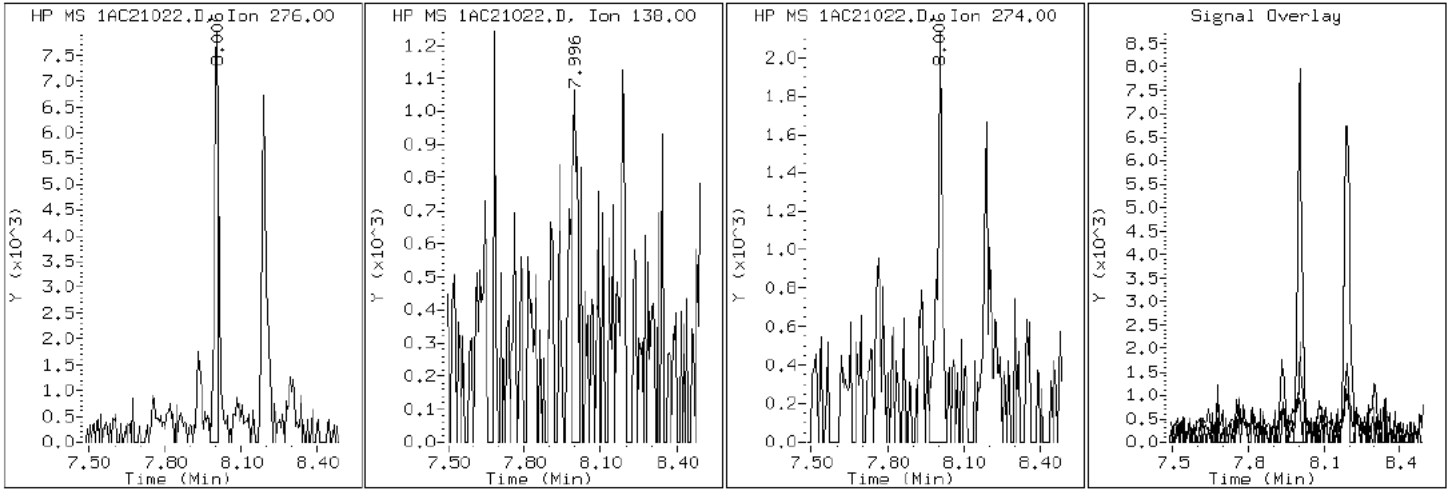
Client ID: CV0200B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-2-a

Operator: SCC

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



Data File: 1AC21022.D

Date: 21-MAR-2013 20:29

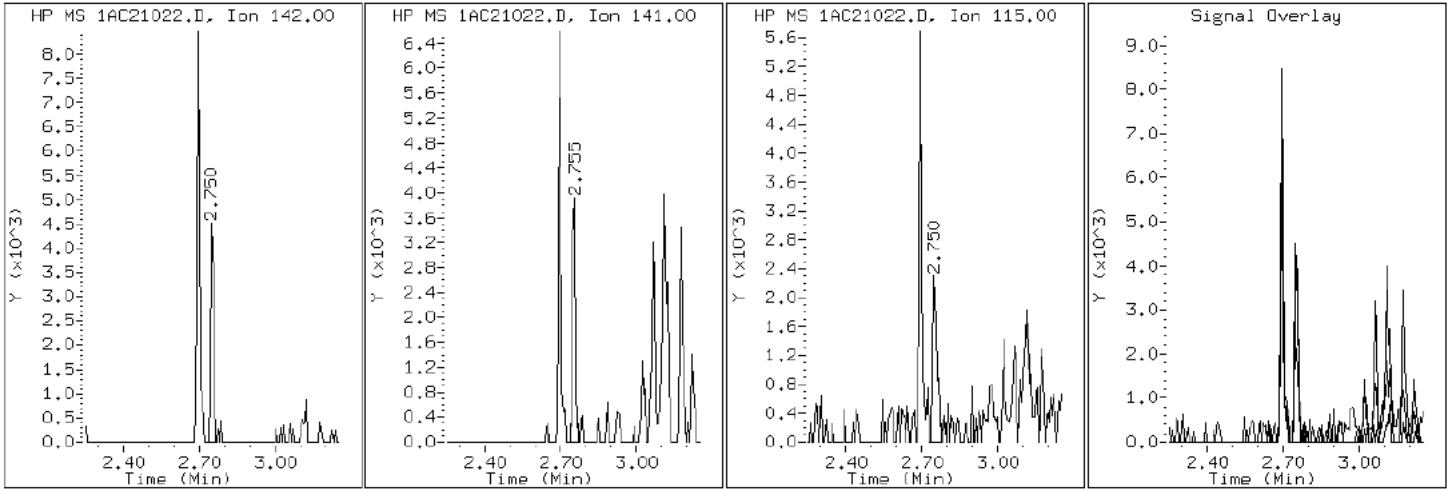
Client ID: CV0200B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-2-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC21022.D

Date: 21-MAR-2013 20:29

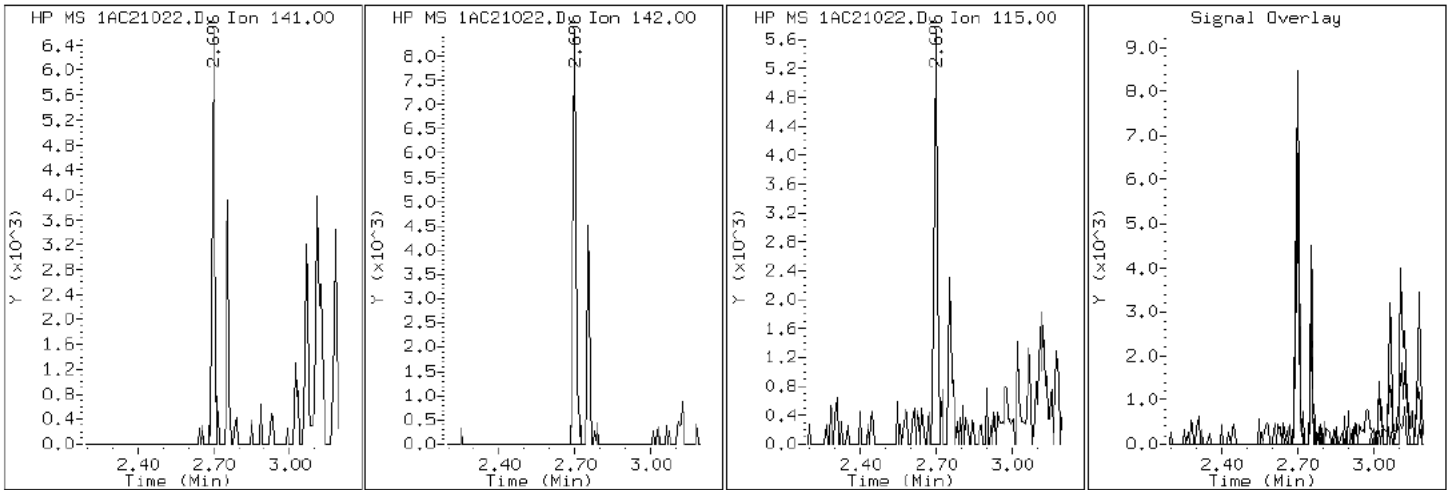
Client ID: CV0200B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-2-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC21022.D

Date: 21-MAR-2013 20:29

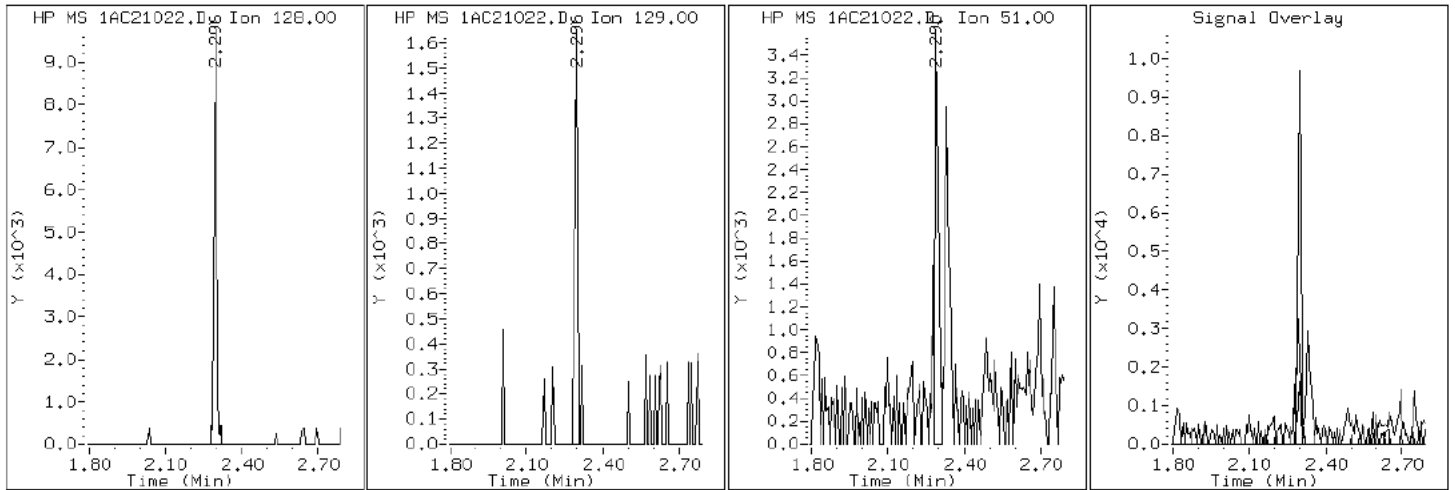
Client ID: CV0200B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-2-a

Operator: SCC

2 Naphthalene



Data File: 1AC21022.D

Date: 21-MAR-2013 20:29

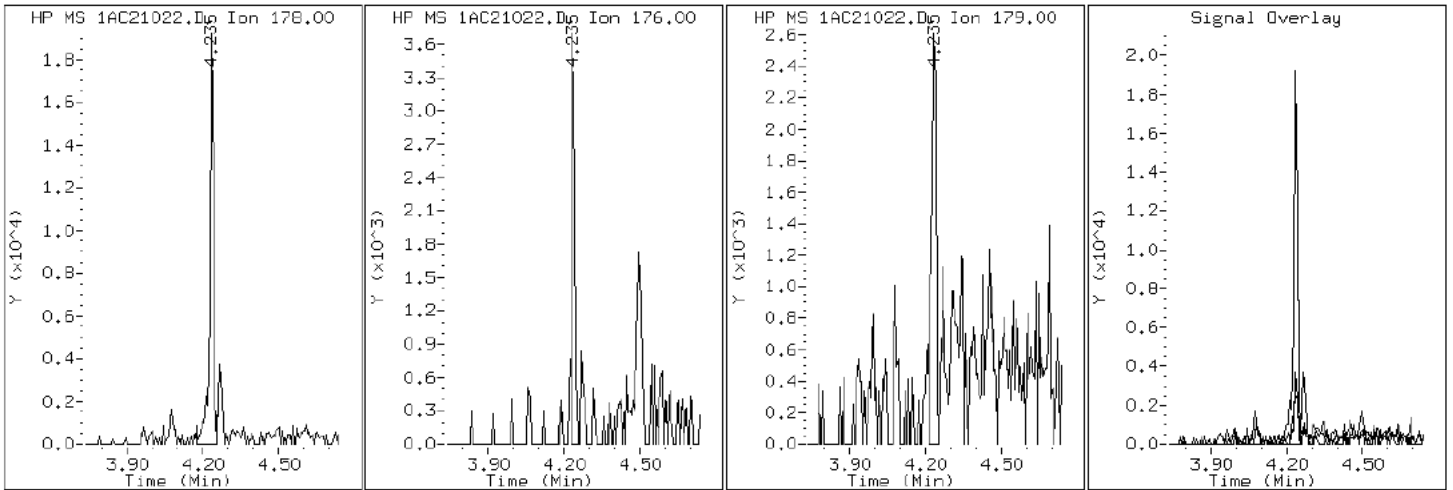
Client ID: CV0200B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-2-a

Operator: SCC

11 Phenanthrene



Data File: 1AC21022.D

Date: 21-MAR-2013 20:29

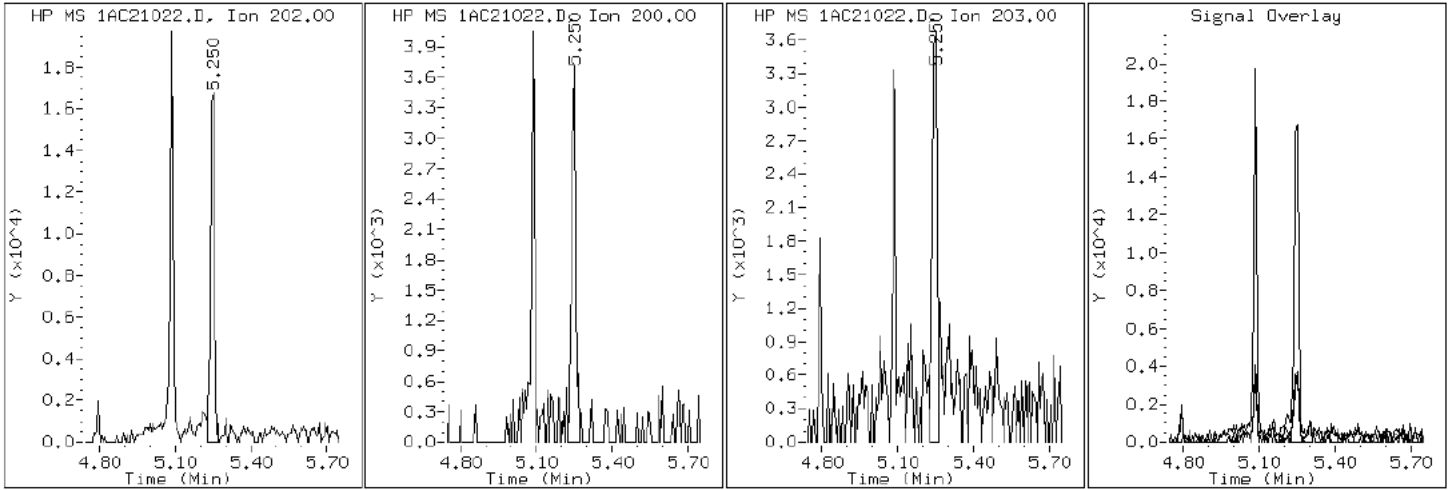
Client ID: CV0200B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-2-a

Operator: SCC

16 Pyrene



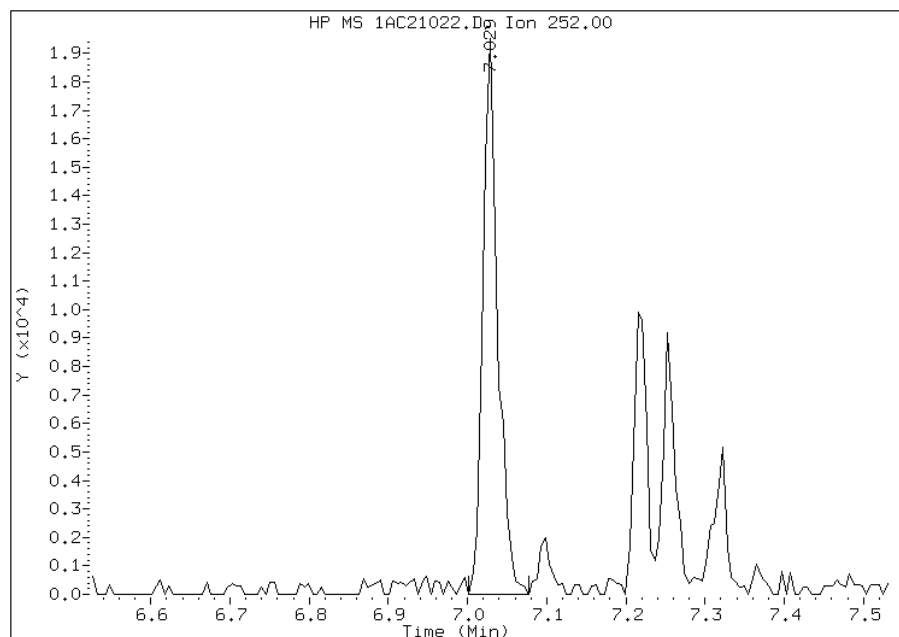


# Manual Integration Report

Data File: 1AC21022.D  
Inj. Date and Time: 21-MAR-2013 20:29  
Instrument ID: BSMA5973.i  
Client ID: CV0200B-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 03/26/2013

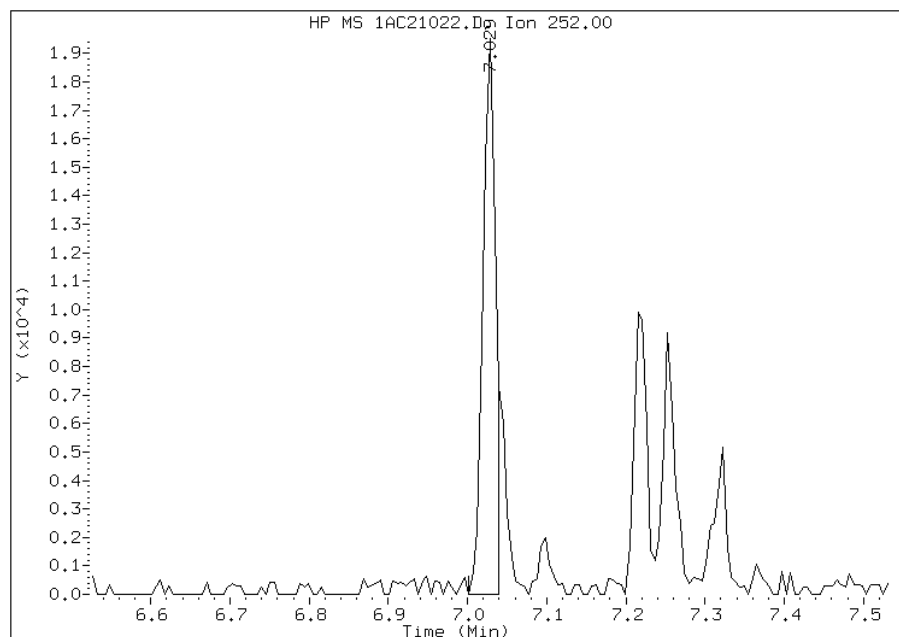
## Processing Integration Results

RT: 7.03  
Response: 25006  
Amount: 3  
Conc: 238



## Manual Integration Results

RT: 7.03  
Response: 21406  
Amount: 2  
Conc: 220



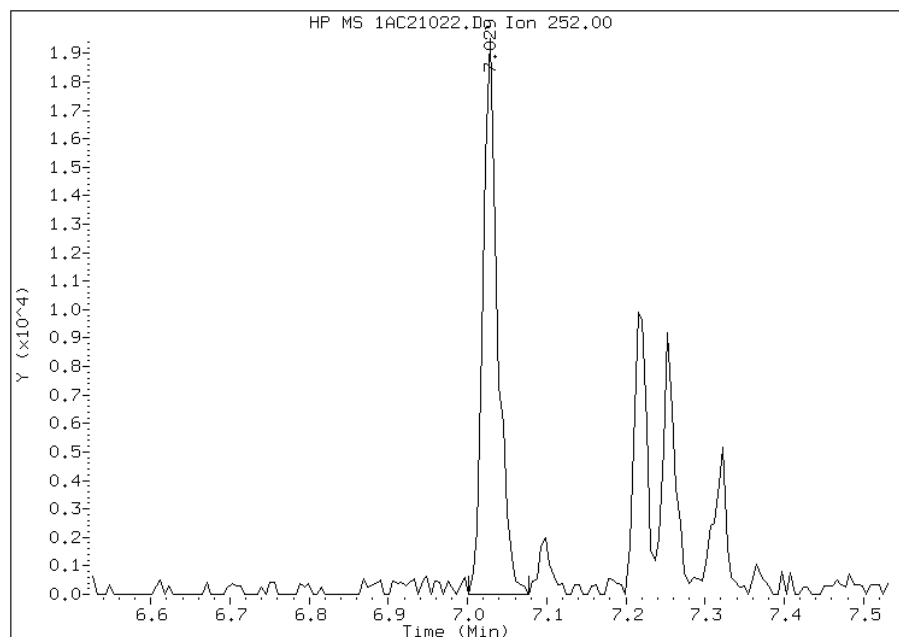
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:33  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AC21022.D  
Inj. Date and Time: 21-MAR-2013 20:29  
Instrument ID: BSMA5973.i  
Client ID: CV0200B-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 03/26/2013

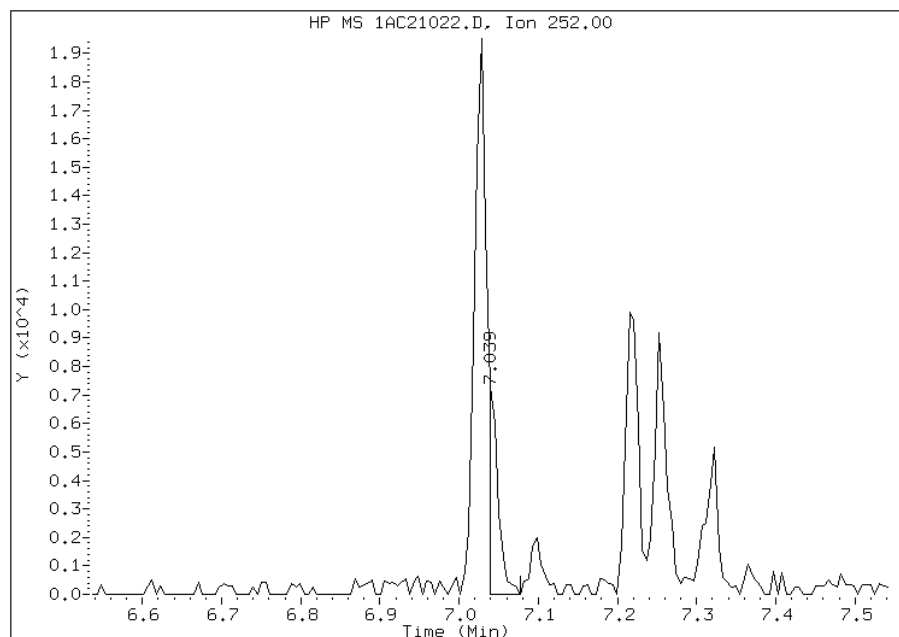
## Processing Integration Results

RT: 7.03  
Response: 25006  
Amount: 1  
Conc: 133



## Manual Integration Results

RT: 7.04  
Response: 5901  
Amount: 0  
Conc: 31



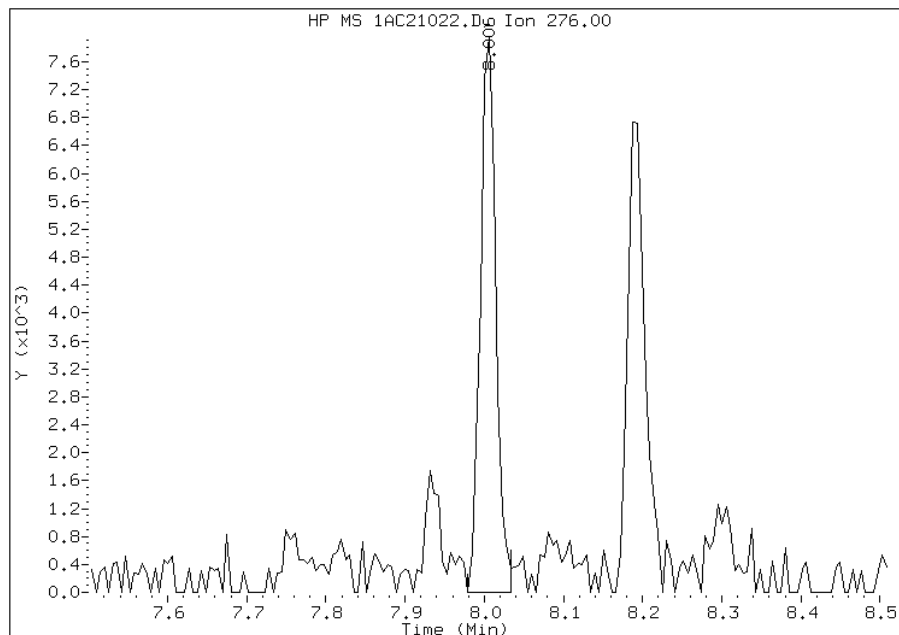
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:33  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AC21022.D  
Inj. Date and Time: 21-MAR-2013 20:29  
Instrument ID: BSMA5973.i  
Client ID: CV0200B-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/26/2013

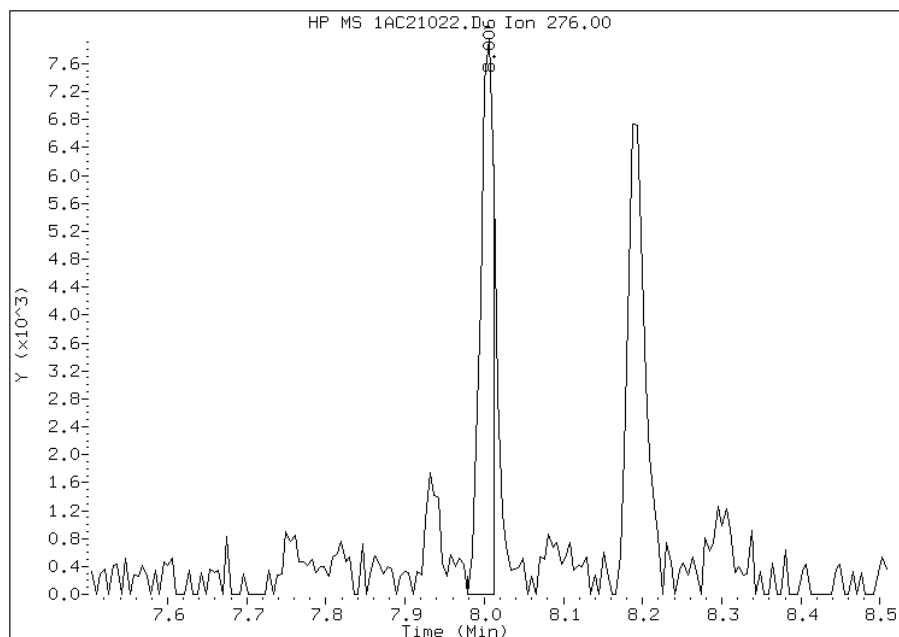
## Processing Integration Results

RT: 8.01  
Response: 10647  
Amount: 1  
Conc: 72



## Manual Integration Results

RT: 8.01  
Response: 9018  
Amount: 1  
Conc: 61



Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:33  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: FM0347A-CS Lab Sample ID: 680-88420-3  
 Matrix: Solid Lab File ID: 1AC21023.D  
 Analysis Method: 8270C LL Date Collected: 03/14/2013 08:40  
 Extract. Method: 3546 Date Extracted: 03/21/2013 08:38  
 Sample wt/vol: 15.06(g) Date Analyzed: 03/21/2013 20:44  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 15.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135630 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	470	U	470	94
208-96-8	Acenaphthylene	190	U	190	23
120-12-7	Anthracene	55		39	20
56-55-3	Benzo[a]anthracene	460		38	18
50-32-8	Benzo[a]pyrene	370		49	24
205-99-2	Benzo[b]fluoranthene	960		57	29
191-24-2	Benzo[g,h,i]perylene	570		94	21
207-08-9	Benzo[k]fluoranthene	210		38	17
218-01-9	Chrysene	420		42	21
53-70-3	Dibenz(a,h)anthracene	170		94	19
206-44-0	Fluoranthene	490		94	19
86-73-7	Fluorene	94	U	94	19
193-39-5	Indeno[1,2,3-cd]pyrene	390		94	33
90-12-0	1-Methylnaphthalene	41	J	190	21
91-57-6	2-Methylnaphthalene	340		190	33
91-20-3	Naphthalene	72	J	190	21
85-01-8	Phenanthrene	230		38	18
129-00-0	Pyrene	470		94	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	48		30-130

TestAmerica Laboratories

Semivolatle 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\1AC21023.D  
 Lab Smp Id: 680-88420-A-3-A Client Smp ID: FM0347A-CS  
 Inj Date : 21-MAR-2013 20:44  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-88420-a-3-a  
 Misc Info : 680-88420-A-3-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\a-bFASTPAHi-m.m  
 Meth Date : 21-Mar-2013 17:07 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D  
 Als bottle: 18  
 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	15.060	Weight Extracted
M	15.016	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.288	2.282	(1.000)	480877	40.0000		
* 6 Acenaphthene-d10	164		3.308	3.302	(1.000)	373692	40.0000		
* 10 Phenanthrene-d10	188		4.227	4.221	(1.000)	566046	40.0000		
\$ 14 o-Terphenyl	230		4.499	4.499	(1.064)	8145	1.19066	372.1227	
* 18 Chrysene-d12	240		6.220	6.208	(1.000)	426705	40.0000		
* 23 Perylene-d12	264		7.309	7.292	(1.000)	520314	40.0000		
2 Naphthalene	128		2.298	2.292	(1.005)	2572	0.23151	72.3534(Q)	
3 2-Methylnaphthalene	141		2.699	2.693	(1.180)	1445	1.09291	341.5722	
4 1-Methylnaphthalene	142		2.752	2.752	(1.203)	843	0.13196	41.2413(Q)	
11 Phenanthrene	178		4.238	4.237	(1.003)	10415	0.72597	226.8912	
12 Anthracene	178		4.270	4.269	(1.010)	2462	0.17699	55.3146	
13 Carbazole	167		4.430	4.424	(1.048)	1279	0.10490	32.7855	
15 Fluoranthene	202		5.087	5.081	(1.203)	22201	1.56552	489.2796	
16 Pyrene	202		5.247	5.246	(0.844)	18486	1.51096	472.2263	

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		-----	-----	-----	-----	-----	-----
17 Benzo(a)anthracene	228		6.214	6.197	(0.999)	16166	1.47483	460.9336
19 Chrysene	228		6.230	6.224	(1.002)	14751	1.33471	417.1434
20 Benzo(b)fluoranthene	252		7.026	7.015	(0.961)	26621	3.05947	956.1885(M)
21 Benzo(k)fluoranthene	252		7.037	7.036	(0.963)	9245	0.65871	205.8693(QM)
22 Benzo(a)pyrene	252		7.251	7.244	(0.992)	14634	1.19846	374.5588
24 Indeno(1,2,3-cd)pyrene	276		7.998	7.987	(1.094)	13780	1.25071	390.8889(M)
25 Dibenzo(a,h)anthracene	278		8.004	7.998	(1.095)	5911	0.54132	169.1804
26 Benzo(g,h,i)perylene	276		8.185	8.169	(1.120)	20337	1.83373	573.1040

QC Flag Legend

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

Data File: 1AC21023.D

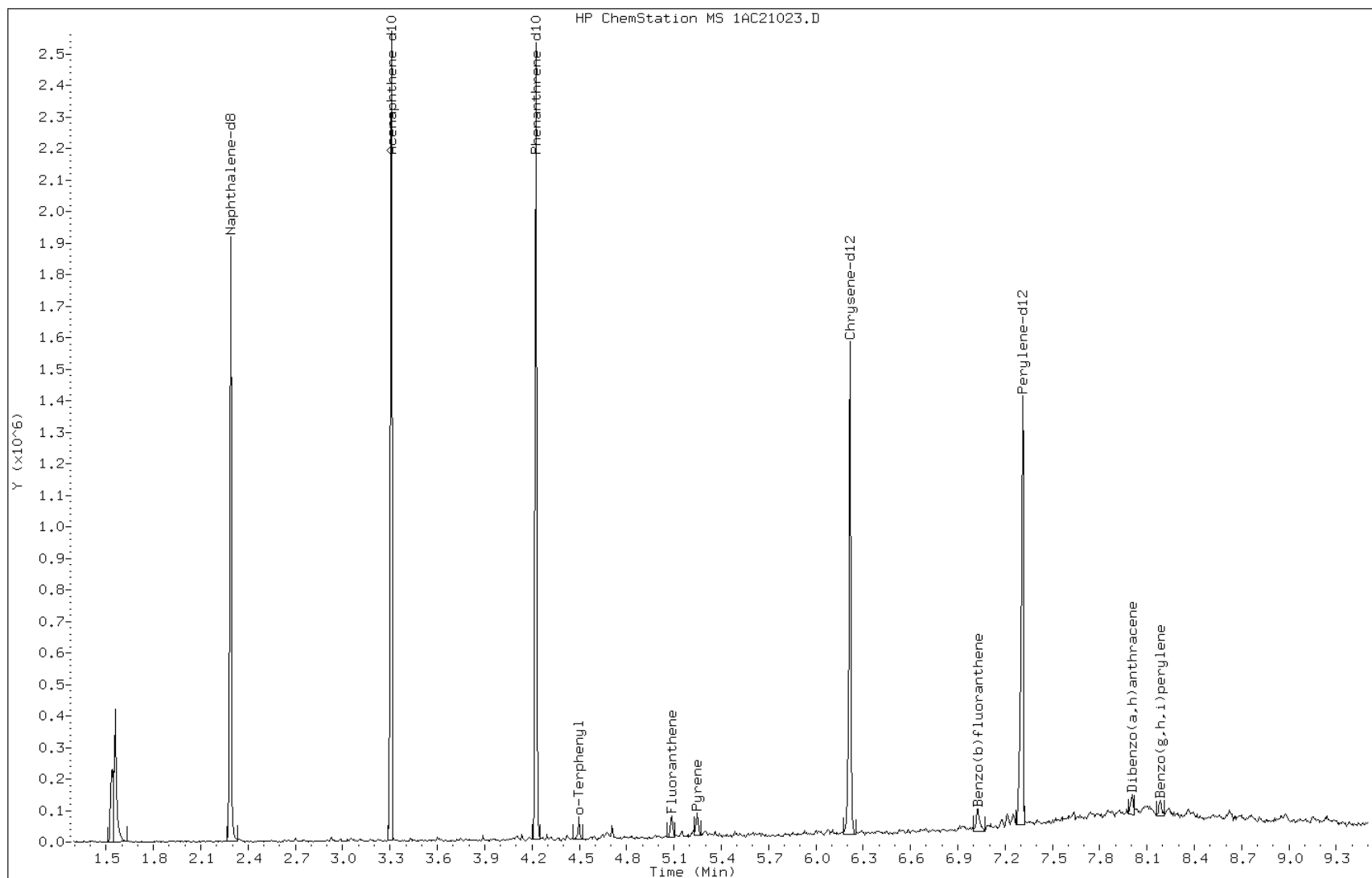
Date: 21-MAR-2013 20:44

Client ID: FM0347A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-3-a

Operator: SCC



Data File: 1AC21023.D

Date: 21-MAR-2013 20:44

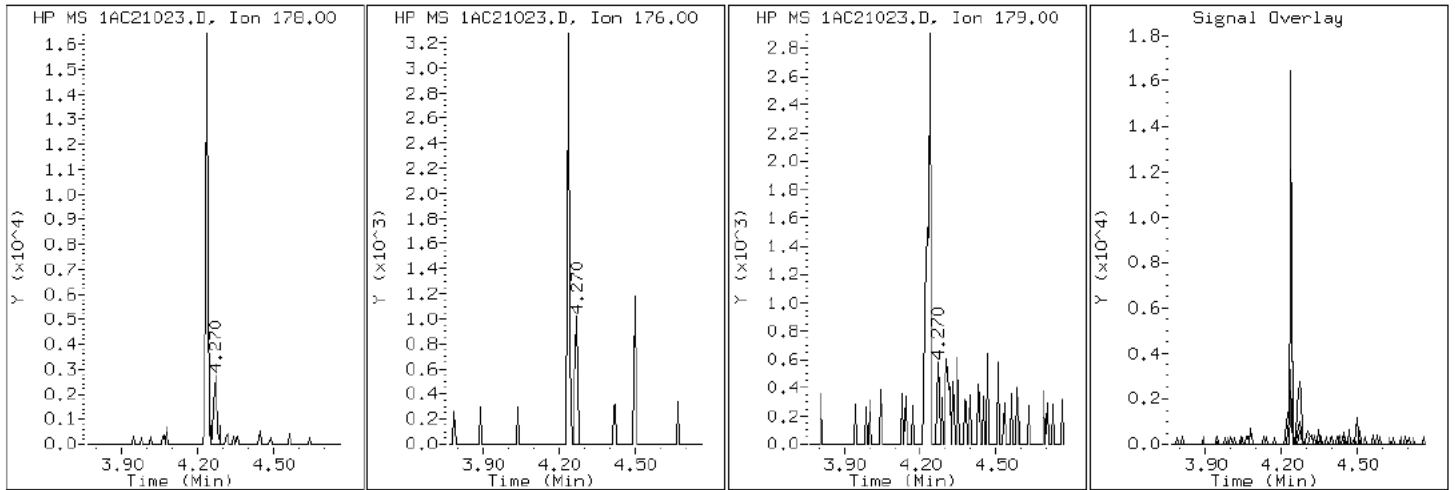
Client ID: FM0347A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-3-a

Operator: SCC

12 Anthracene





Data File: 1AC21023.D

Date: 21-MAR-2013 20:44

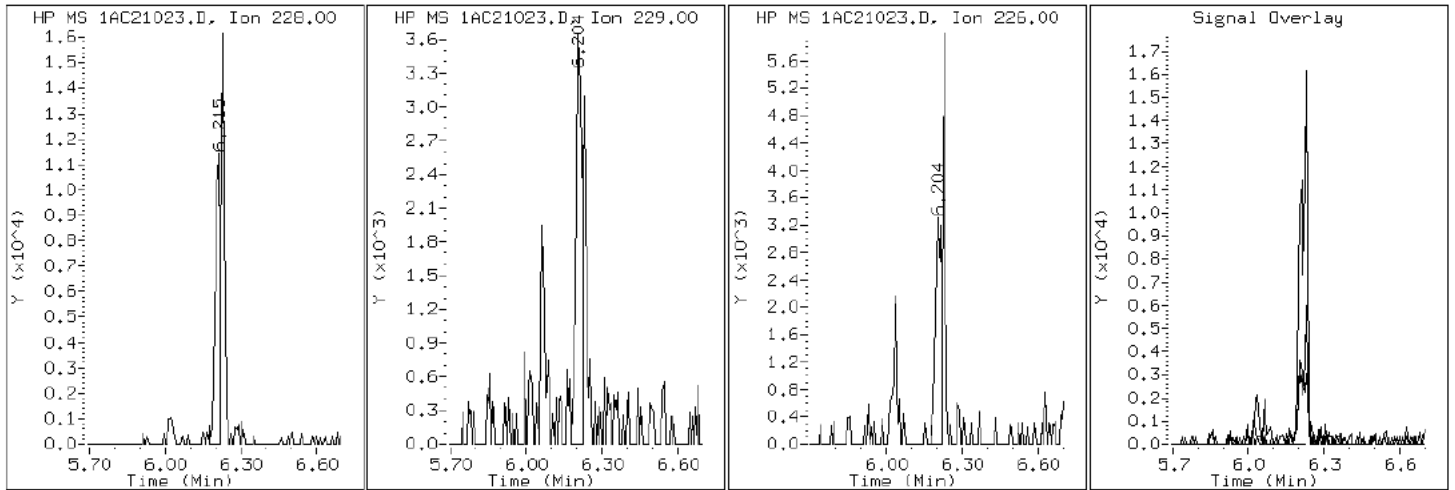
Client ID: FM0347A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-3-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC21023.D

Date: 21-MAR-2013 20:44

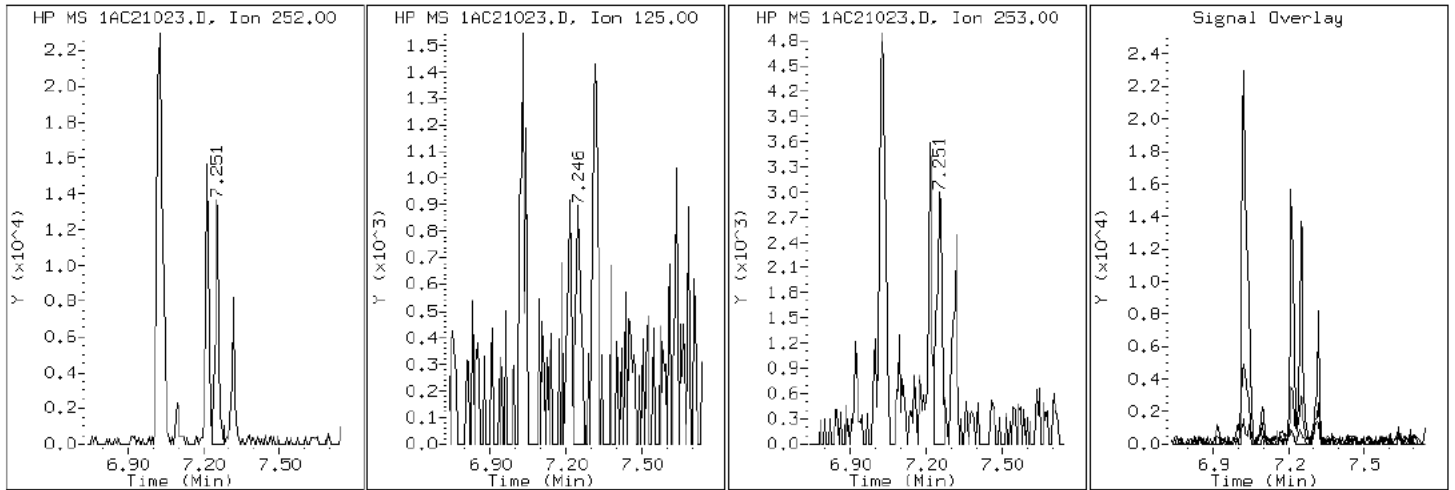
Client ID: FM0347A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-3-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC21023.D

Date: 21-MAR-2013 20:44

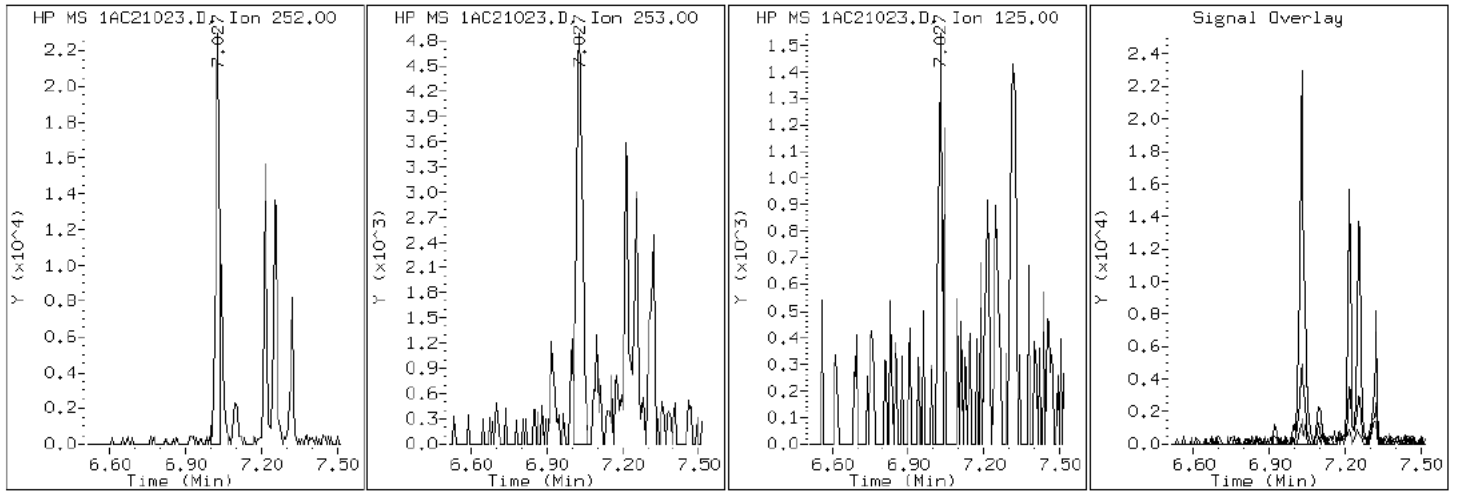
Client ID: FM0347A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-3-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC21023.D

Date: 21-MAR-2013 20:44

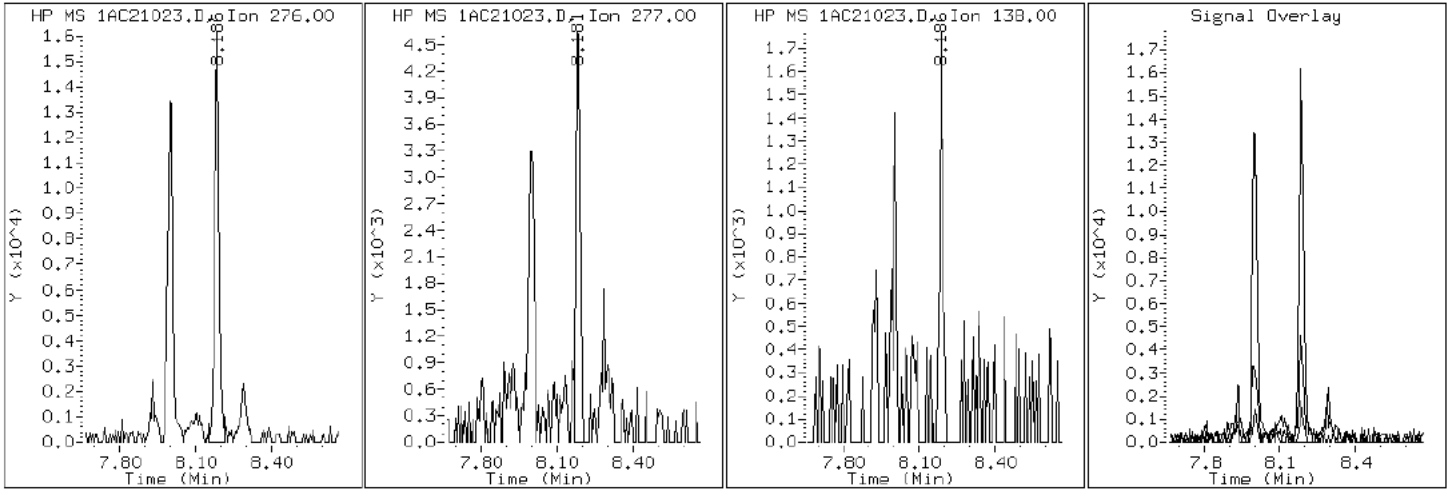
Client ID: FM0347A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-3-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC21023.D

Date: 21-MAR-2013 20:44

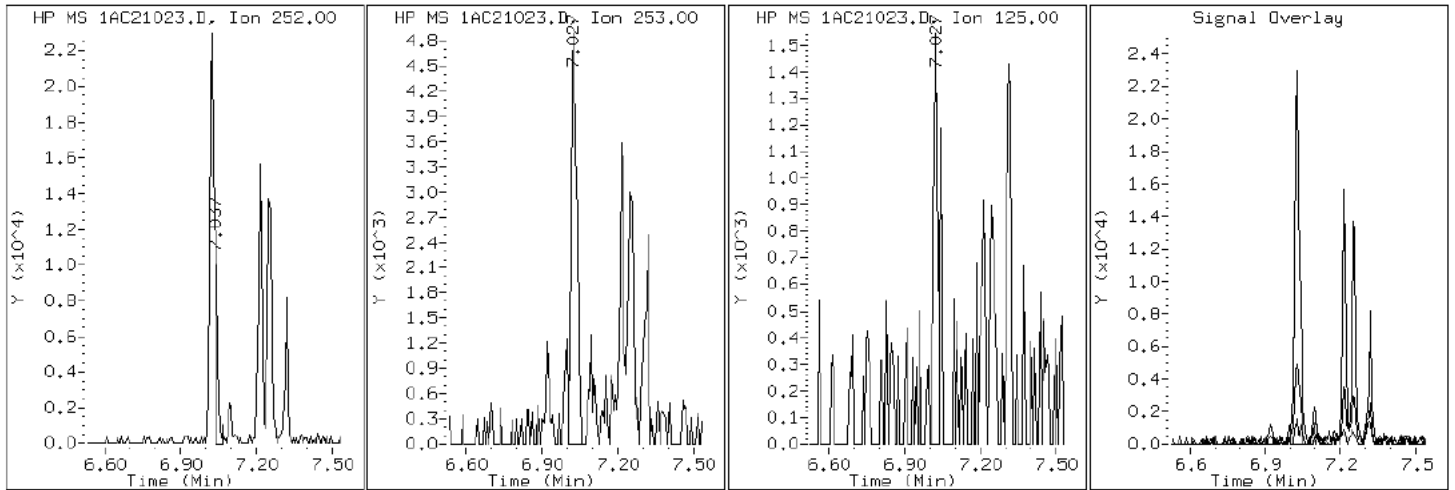
Client ID: FM0347A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-3-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC21023.D

Date: 21-MAR-2013 20:44

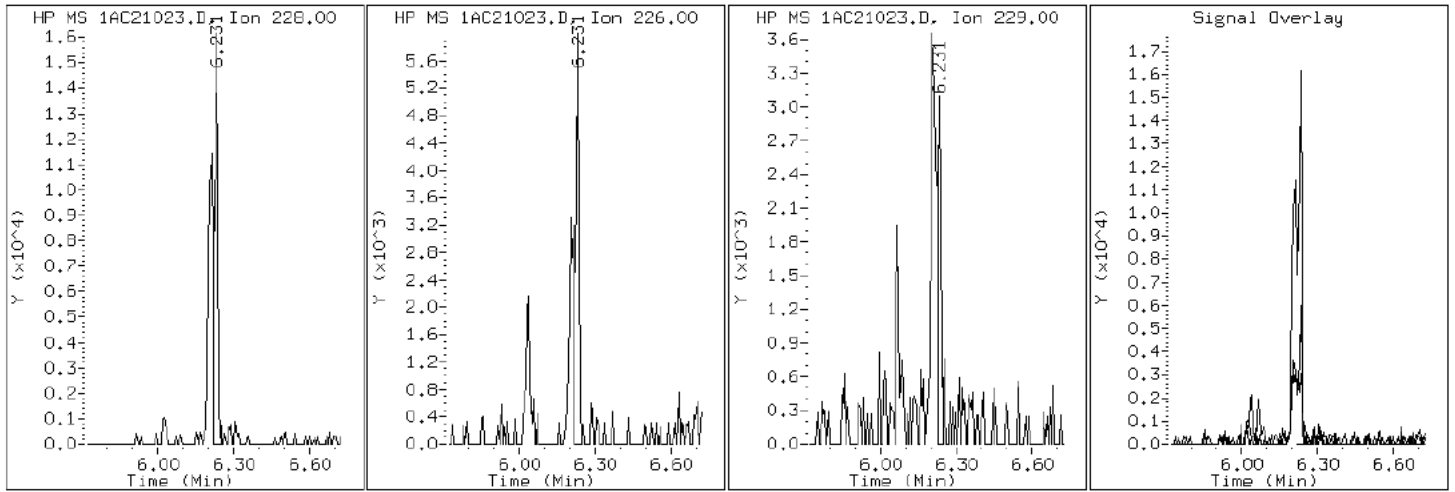
Client ID: FM0347A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-3-a

Operator: SCC

19 Chrysene



Data File: 1AC21023.D

Date: 21-MAR-2013 20:44

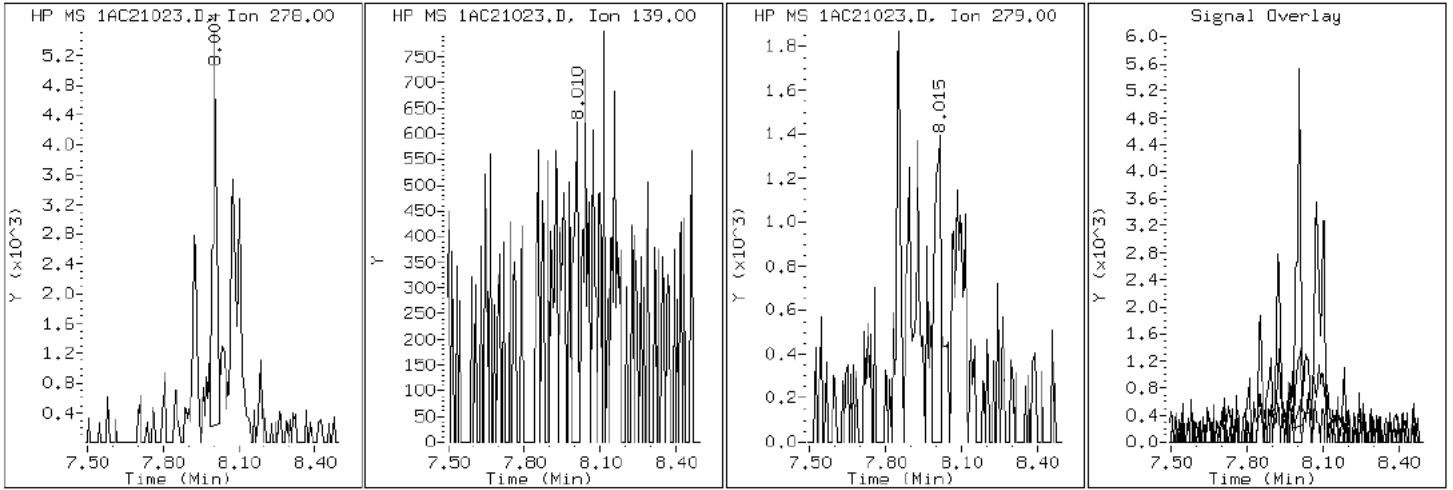
Client ID: FM0347A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-3-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC21023.D

Date: 21-MAR-2013 20:44

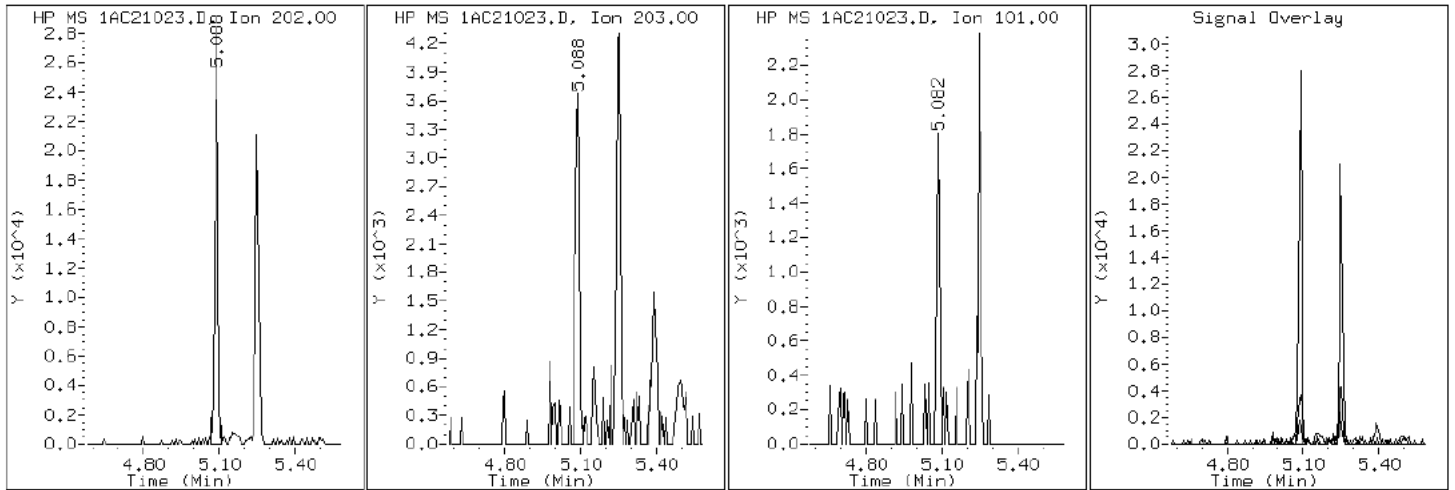
Client ID: FM0347A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-3-a

Operator: SCC

15 Fluoranthene





Data File: 1AC21023.D

Date: 21-MAR-2013 20:44

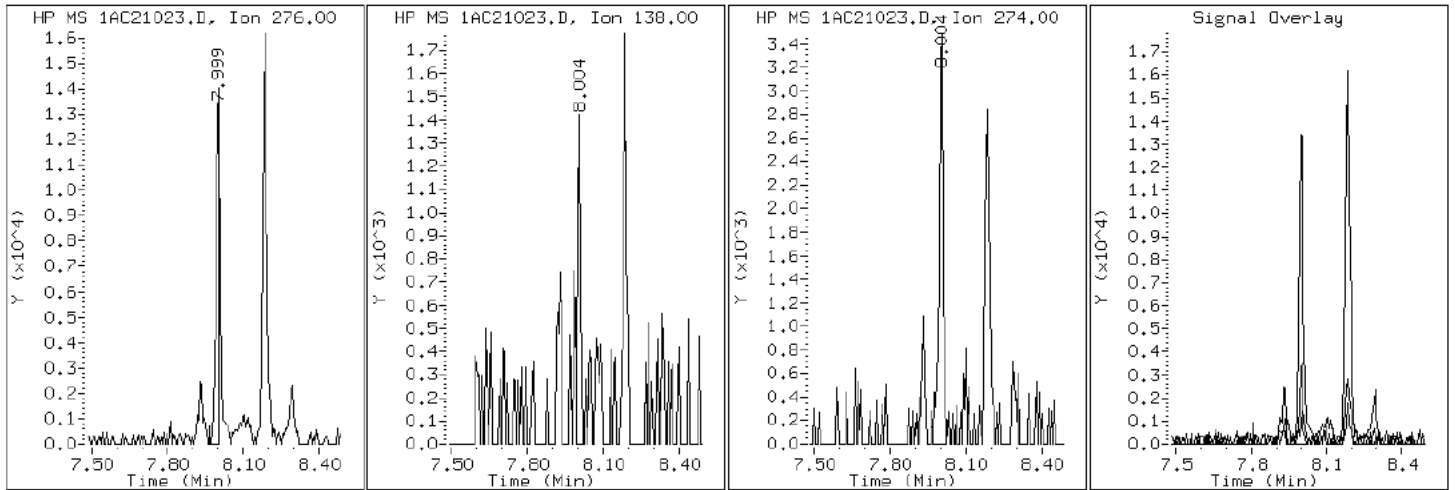
Client ID: FM0347A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-3-a

Operator: SCC

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



Data File: 1AC21023.D

Date: 21-MAR-2013 20:44

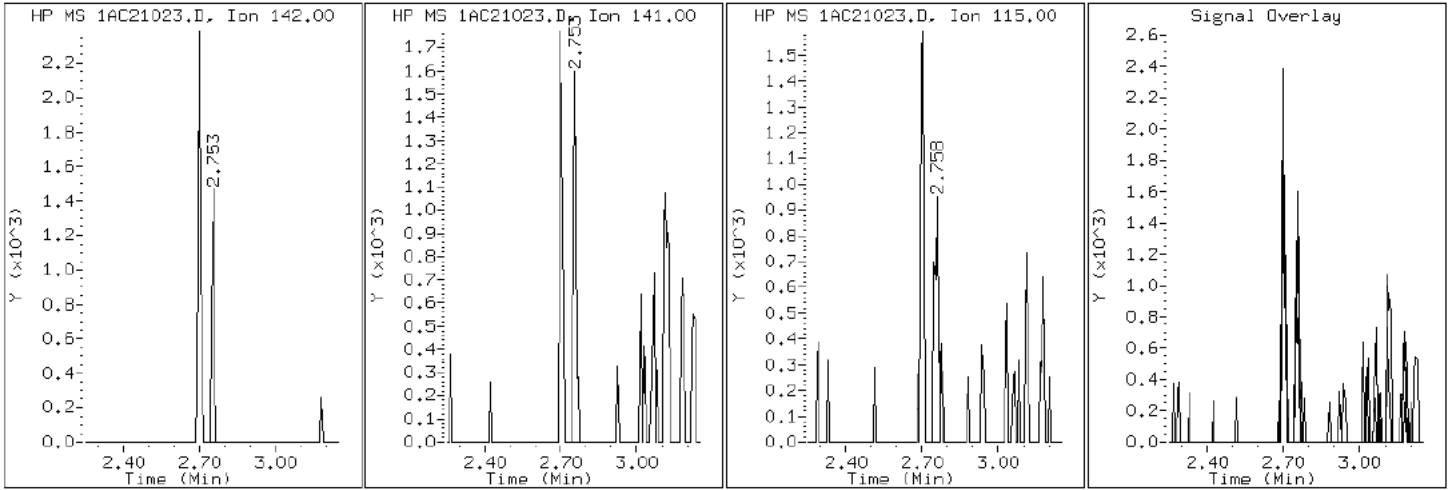
Client ID: FM0347A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-3-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC21023.D

Date: 21-MAR-2013 20:44

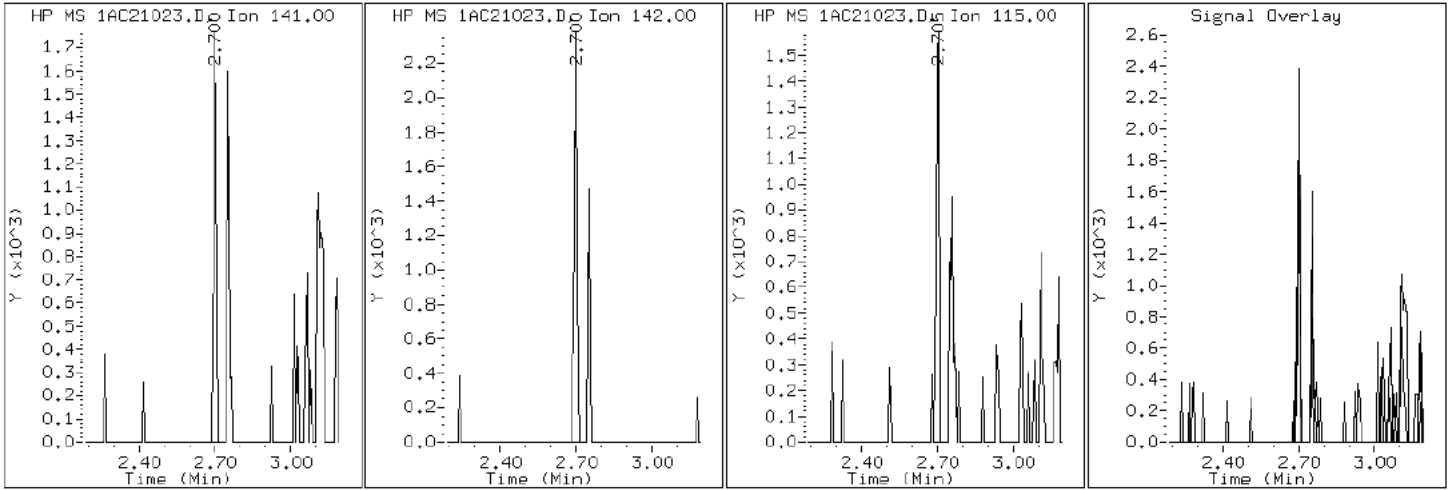
Client ID: FM0347A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-3-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC21023.D

Date: 21-MAR-2013 20:44

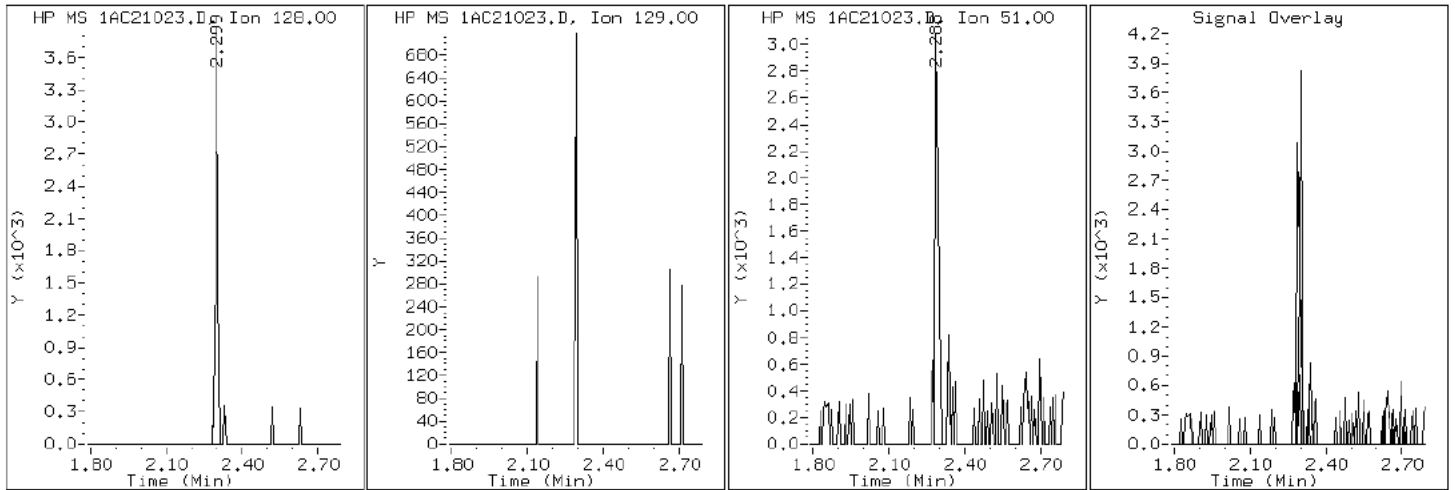
Client ID: FM0347A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-3-a

Operator: SCC

2 Naphthalene



Data File: 1AC21023.D

Date: 21-MAR-2013 20:44

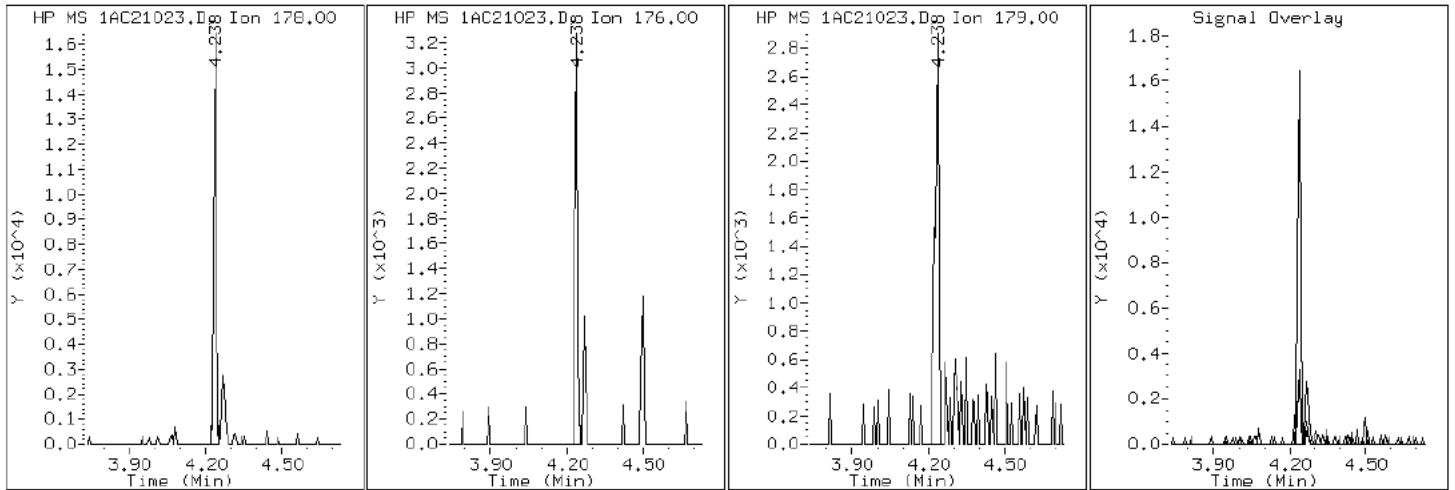
Client ID: FM0347A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-3-a

Operator: SCC

11 Phenanthrene



Data File: 1AC21023.D

Date: 21-MAR-2013 20:44

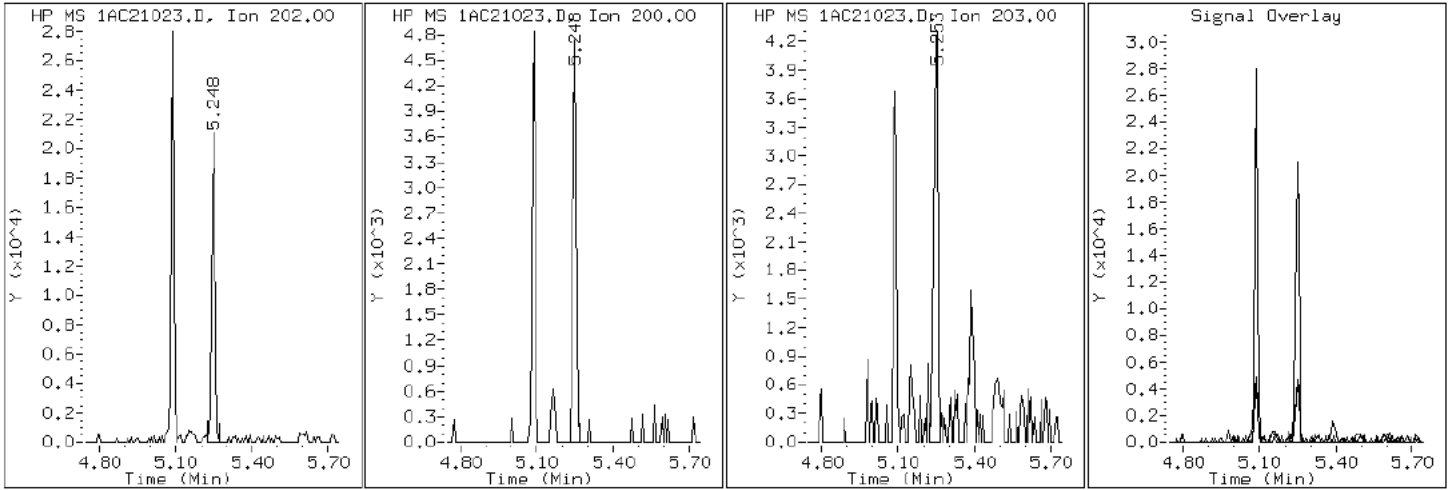
Client ID: FM0347A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-3-a

Operator: SCC

16 Pyrene

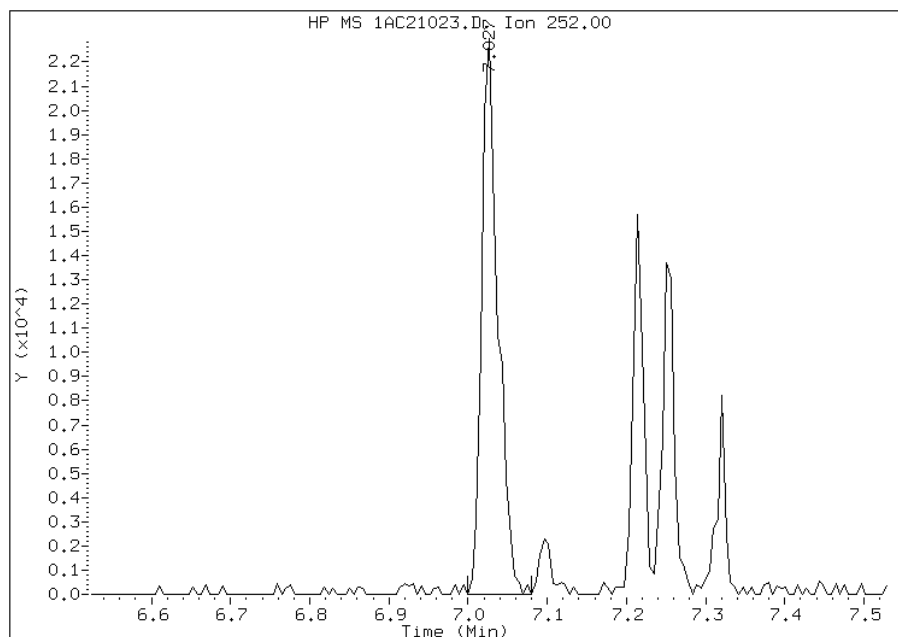


# Manual Integration Report

Data File: 1AC21023.D  
Inj. Date and Time: 21-MAR-2013 20:44  
Instrument ID: BSMA5973.i  
Client ID: FM0347A-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 03/26/2013

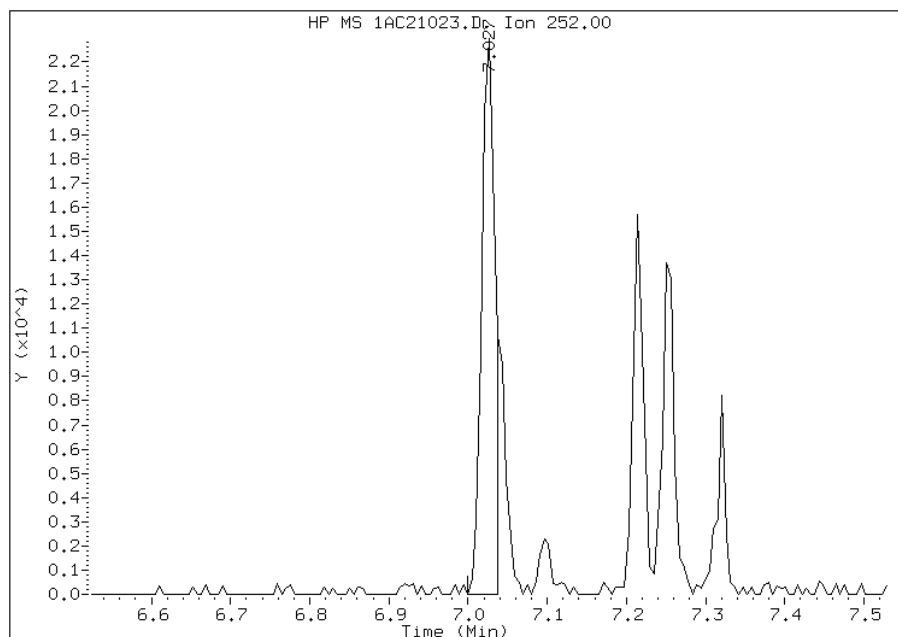
## Processing Integration Results

RT: 7.03  
Response: 32458  
Amount: 3  
Conc: 1083



## Manual Integration Results

RT: 7.03  
Response: 26621  
Amount: 3  
Conc: 956



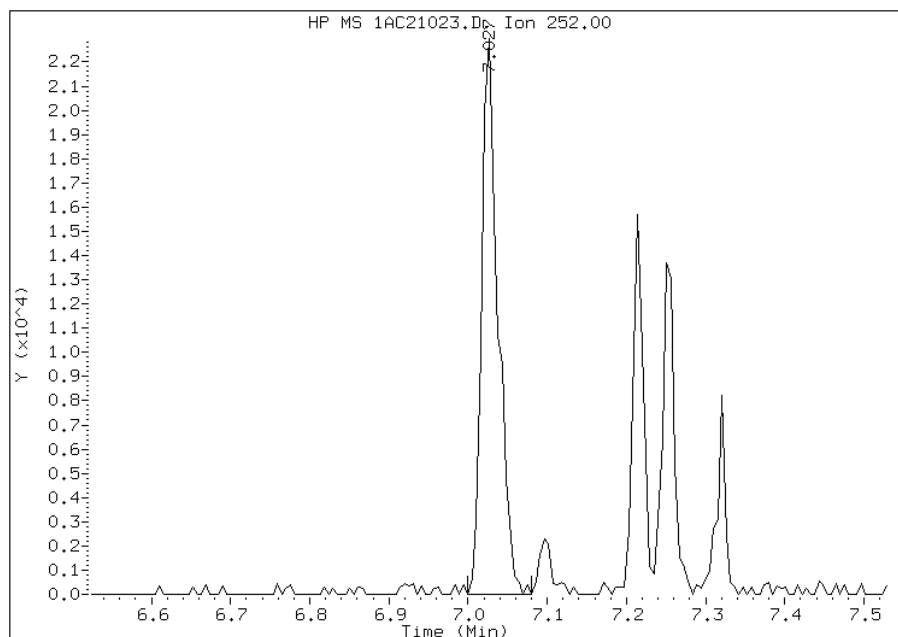
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:34  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AC21023.D  
Inj. Date and Time: 21-MAR-2013 20:44  
Instrument ID: BSMA5973.i  
Client ID: FM0347A-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 03/26/2013

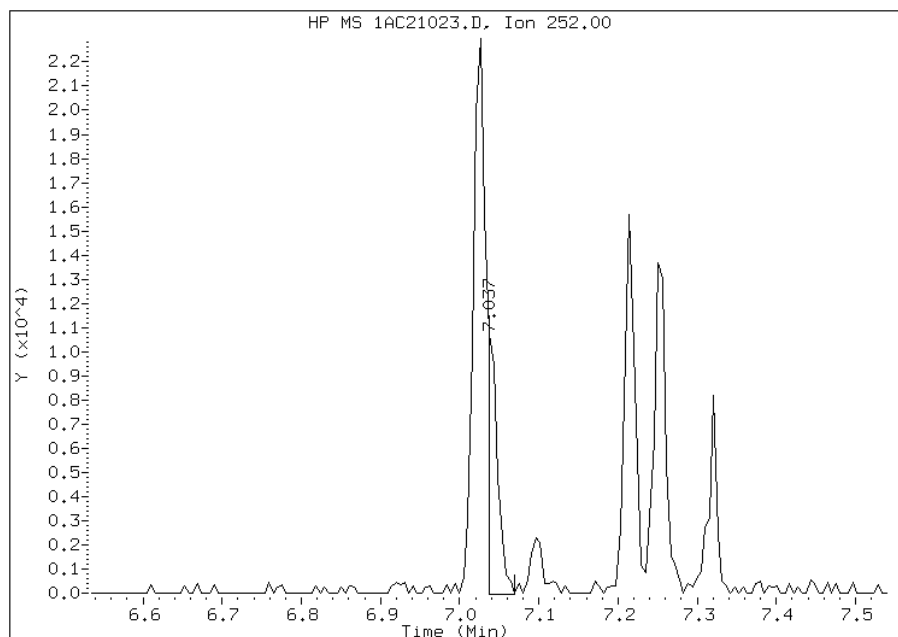
## Processing Integration Results

RT: 7.03  
Response: 32458  
Amount: 2  
Conc: 723



## Manual Integration Results

RT: 7.04  
Response: 9245  
Amount: 1  
Conc: 206



Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:34  
Manual Integration Reason: Baseline Event

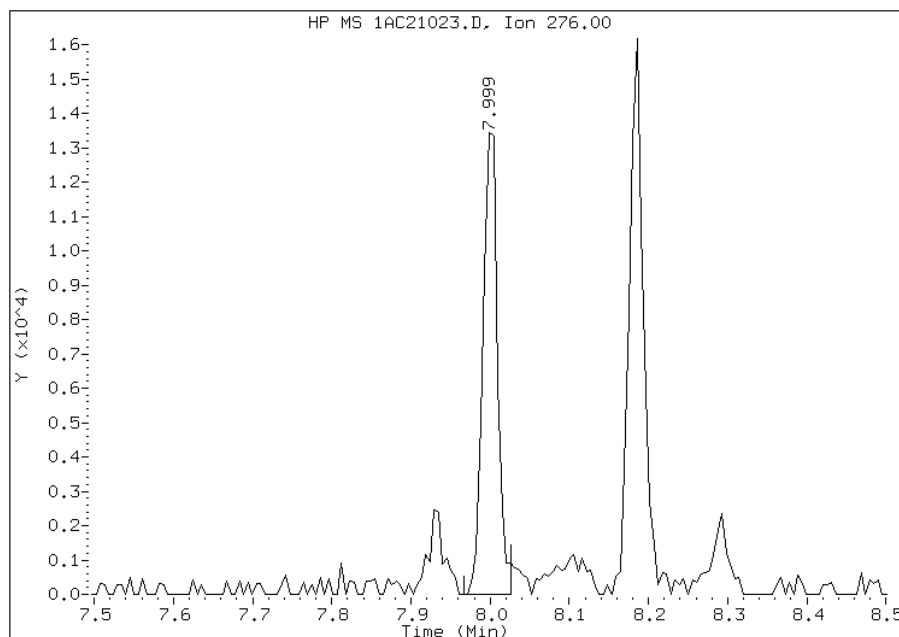


# Manual Integration Report

Data File: 1AC21023.D  
Inj. Date and Time: 21-MAR-2013 20:44  
Instrument ID: BSMA5973.i  
Client ID: FM0347A-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/26/2013

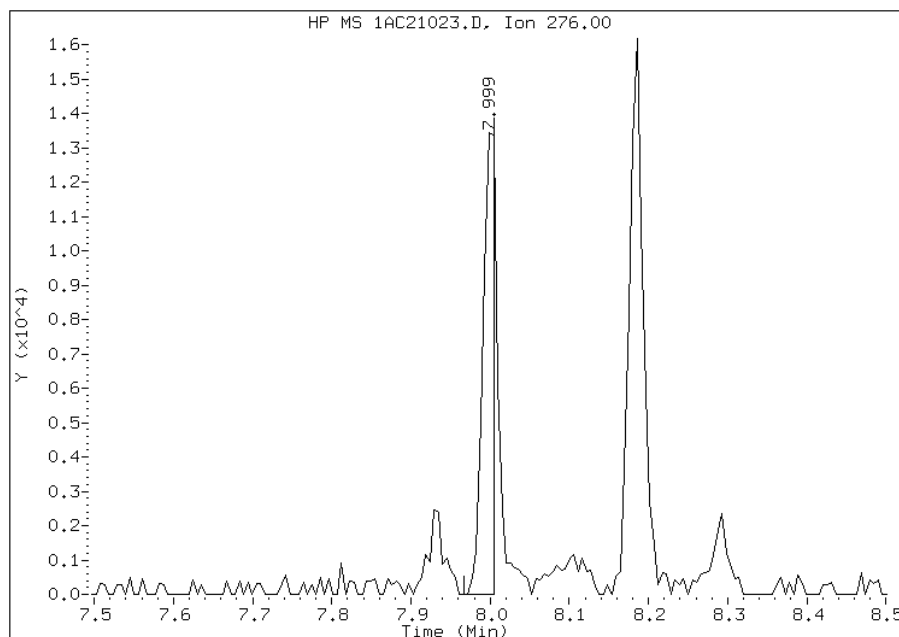
## Processing Integration Results

RT: 8.00  
Response: 17128  
Amount: 2  
Conc: 486



## Manual Integration Results

RT: 8.00  
Response: 13780  
Amount: 1  
Conc: 391



Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:34  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: HP0035A-CS Lab Sample ID: 680-88420-4  
 Matrix: Solid Lab File ID: 1AC21024.D  
 Analysis Method: 8270C LL Date Collected: 03/14/2013 09:45  
 Extract. Method: 3546 Date Extracted: 03/21/2013 08:38  
 Sample wt/vol: 15.04(g) Date Analyzed: 03/21/2013 20:59  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 27.8 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135630 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	27	J	55	6.9
120-12-7	Anthracene	23		12	5.8
56-55-3	Benzo[a]anthracene	88		11	5.4
50-32-8	Benzo[a]pyrene	37		14	7.2
205-99-2	Benzo[b]fluoranthene	170		17	8.4
191-24-2	Benzo[g,h,i]perylene	39		28	6.1
207-08-9	Benzo[k]fluoranthene	18		11	5.0
218-01-9	Chrysene	81		12	6.2
53-70-3	Dibenz(a,h)anthracene	17	J	28	5.7
206-44-0	Fluoranthene	73		28	5.5
86-73-7	Fluorene	28	U	28	5.7
193-39-5	Indeno[1,2,3-cd]pyrene	32		28	9.8
90-12-0	1-Methylnaphthalene	25	J	55	6.1
91-57-6	2-Methylnaphthalene	120		55	9.8
91-20-3	Naphthalene	69		55	6.1
85-01-8	Phenanthrene	82		11	5.4
129-00-0	Pyrene	84		28	5.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	64		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\1AC21024.D  
 Lab Smp Id: 680-88420-A-4-A Client Smp ID: HP0035A-CS  
 Inj Date : 21-MAR-2013 20:59  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-88420-a-4-a  
 Misc Info : 680-88420-A-4-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\a-bFASTPAHi-m.m  
 Meth Date : 21-Mar-2013 17:07 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.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	15.040	Weight Extracted
M	27.811	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.287	2.282	(1.000)	523454	40.0000		
* 6 Acenaphthene-d10	164		3.307	3.302	(1.000)	397294	40.0000		
* 10 Phenanthrene-d10	188		4.226	4.221	(1.000)	542078	40.0000		
\$ 14 o-Terphenyl	230		4.499	4.499	(1.064)	45064	6.37444	587.1157	
* 18 Chrysene-d12	240		6.219	6.208	(1.000)	402355	40.0000		
* 23 Perylene-d12	264		7.314	7.292	(1.000)	528939	40.0000		
2 Naphthalene	128		2.298	2.292	(1.005)	9125	0.75453	69.4961	
3 2-Methylnaphthalene	141		2.698	2.693	(1.180)	3177	1.30912	120.5757	
4 1-Methylnaphthalene	142		2.752	2.752	(1.203)	1902	0.27351	25.1915(Q)	
5 Acenaphthylene	152		3.222	3.216	(0.974)	1845	0.29524	27.1933	
11 Phenanthrene	178		4.237	4.237	(1.003)	12178	0.88639	81.6409	
12 Anthracene	178		4.269	4.269	(1.010)	3299	0.24764	22.8091	
13 Carbazole	167		4.435	4.424	(1.049)	2059	0.17634	16.2420	
15 Fluoranthene	202		5.086	5.081	(1.203)	10759	0.79223	72.9676	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
16 Pyrene	202	5.252	5.246	(0.845)	10542	0.91380	84.1651
17 Benzo(a)anthracene	228	6.213	6.197	(0.999)	9245	0.96071	88.4861
19 Chrysene	228	6.229	6.224	(1.002)	9182	0.88109	81.1527
20 Benzo(b)fluoranthene	252	7.031	7.015	(0.961)	9914	1.88291	173.4243(M)
21 Benzo(k)fluoranthene	252	7.041	7.036	(0.963)	2856	0.20017	18.4368(QMH)
22 Benzo(a)pyrene	252	7.255	7.244	(0.992)	4957	0.39934	36.7806
24 Indeno(1,2,3-cd)pyrene	276	8.003	7.987	(1.094)	3851	0.34383	31.6680(M)
25 Dibenzo(a,h)anthracene	278	8.019	7.998	(1.096)	2005	0.18062	16.6359
26 Benzo(g,h,i)perylene	276	8.195	8.169	(1.121)	4756	0.42184	38.8536(M)

QC Flag Legend

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

Data File: 1AC21024.D

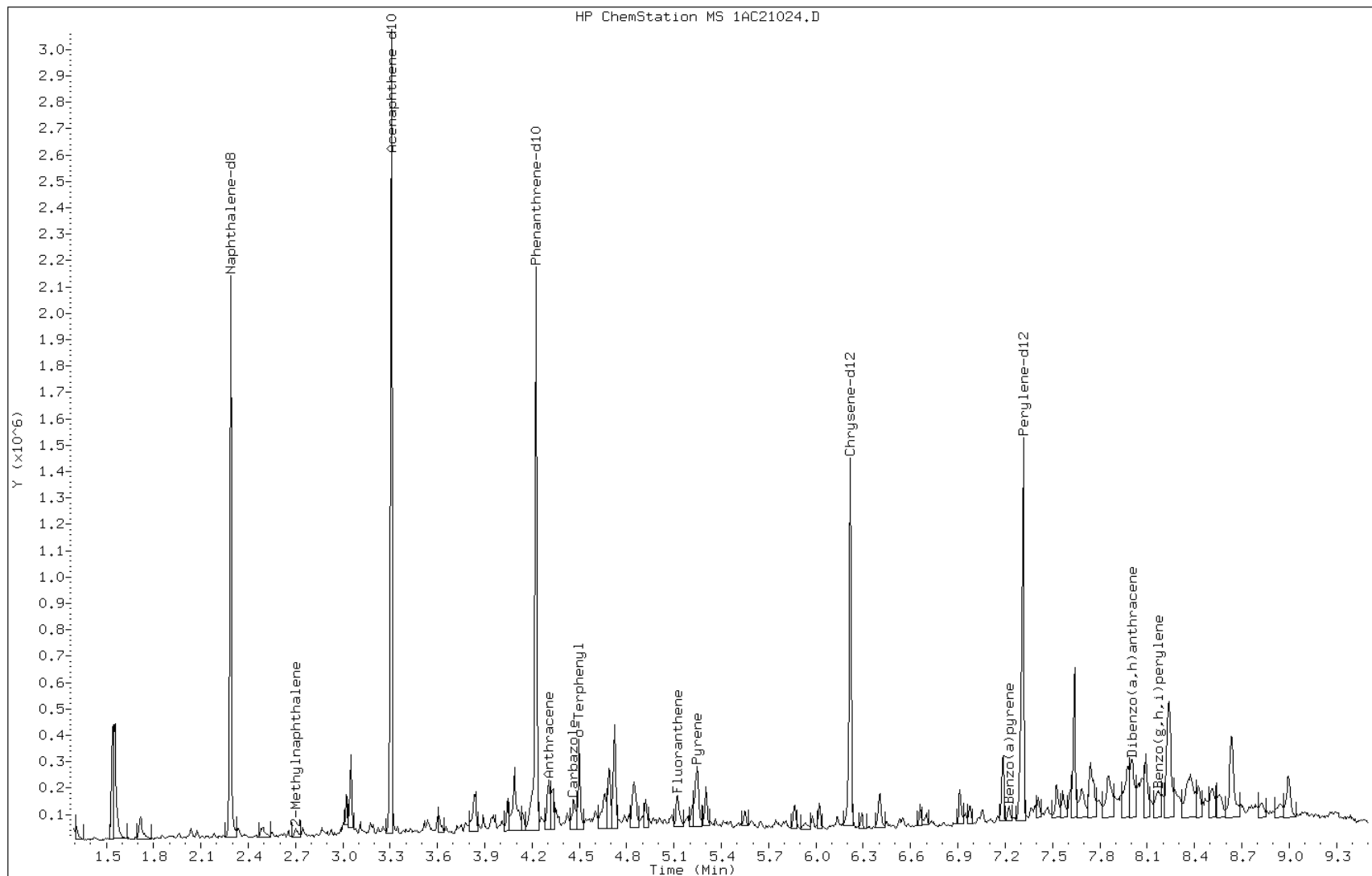
Date: 21-MAR-2013 20:59

Client ID: HP0035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-4-a

Operator: SCC



Data File: 1AC21024.D

Date: 21-MAR-2013 20:59

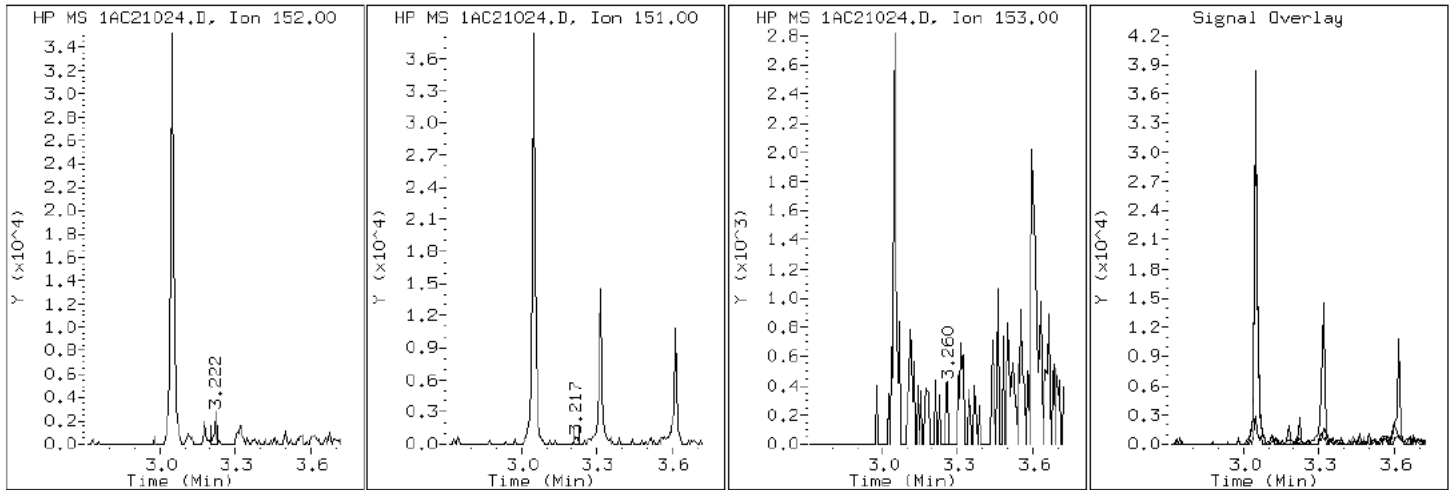
Client ID: HP0035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-4-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC21024.D

Date: 21-MAR-2013 20:59

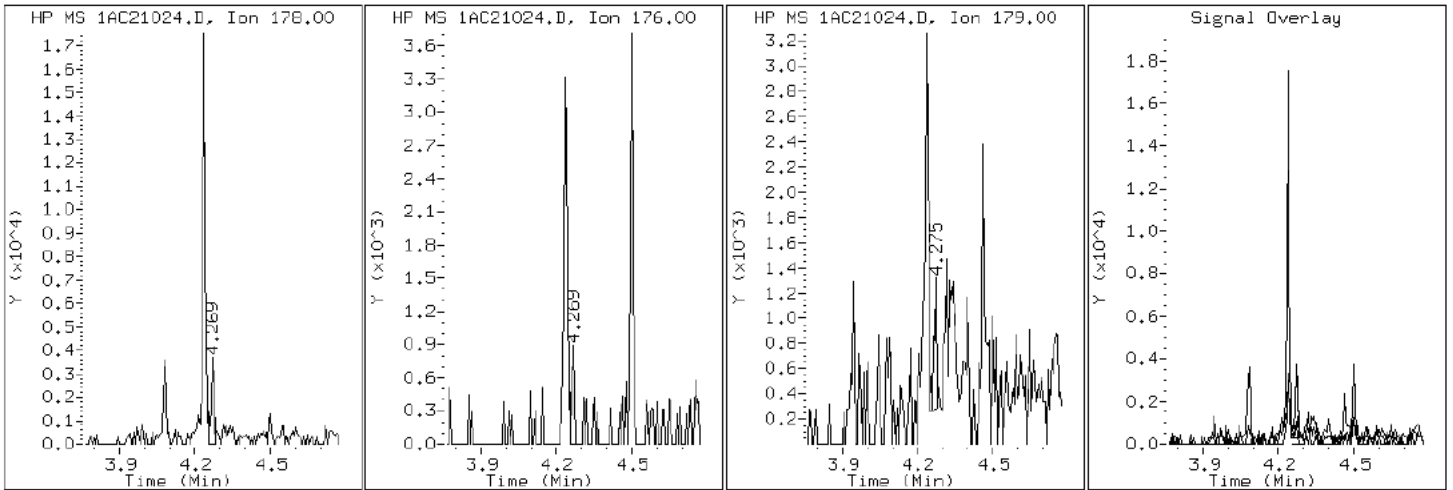
Client ID: HP0035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-4-a

Operator: SCC

12 Anthracene



Data File: 1AC21024.D

Date: 21-MAR-2013 20:59

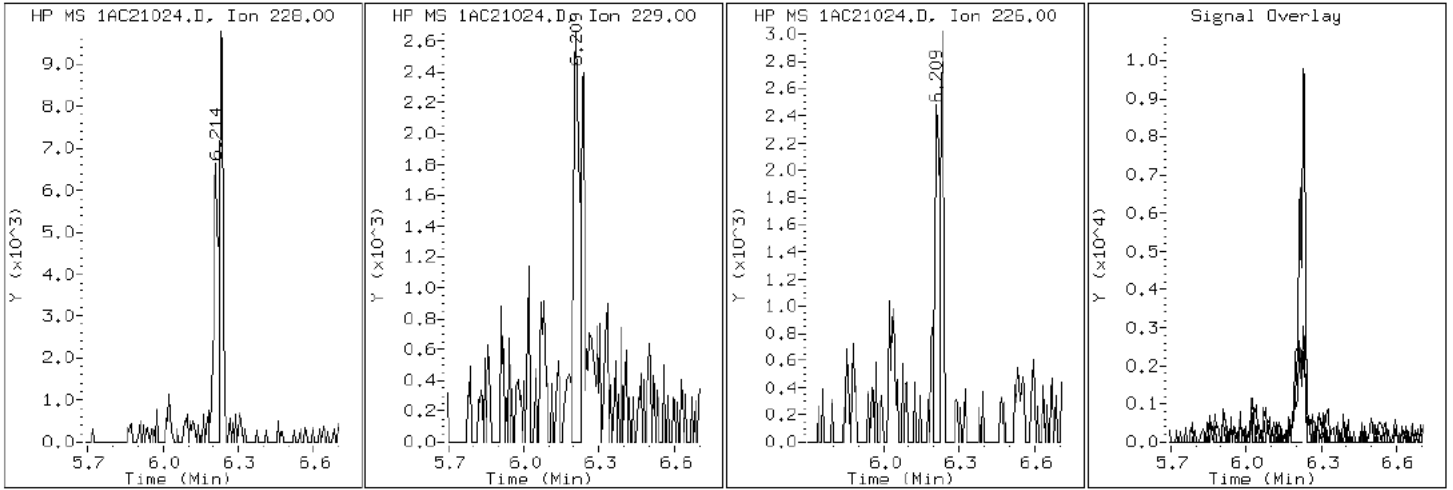
Client ID: HP0035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-4-a

Operator: SCC

17 Benzo(a)anthracene





Data File: 1AC21024.D

Date: 21-MAR-2013 20:59

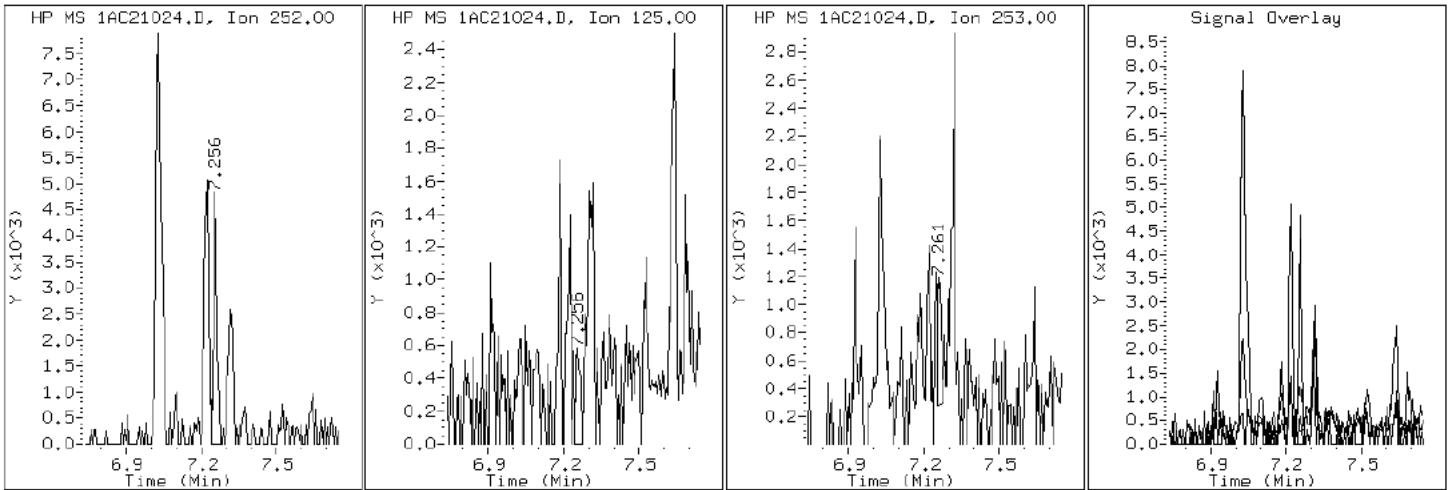
Client ID: HP0035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-4-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC21024.D

Date: 21-MAR-2013 20:59

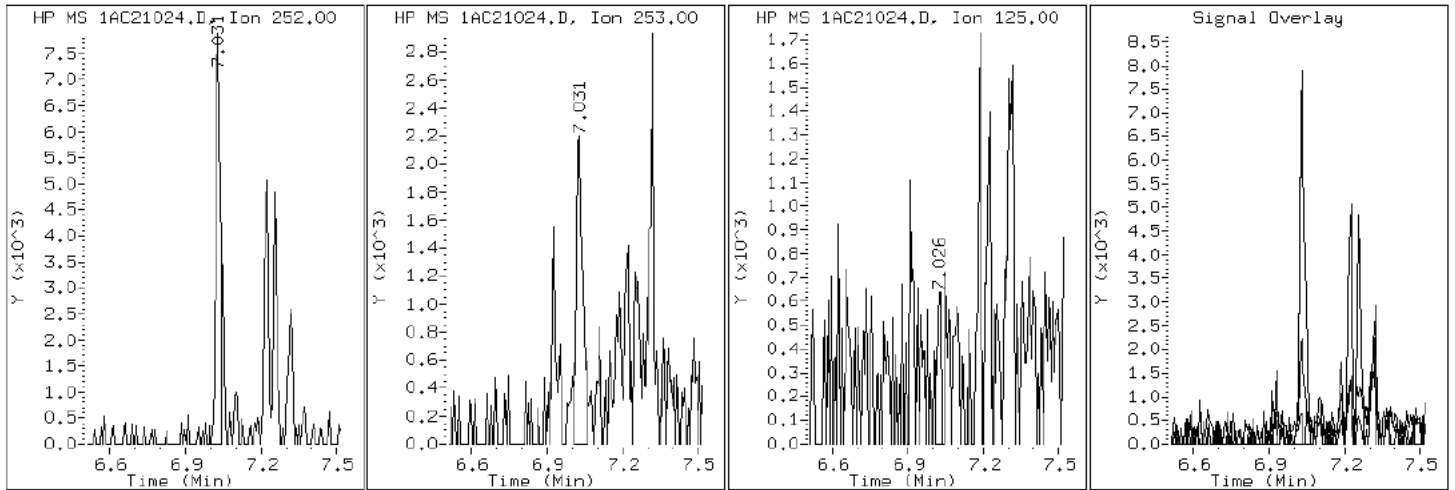
Client ID: HP0035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-4-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC21024.D

Date: 21-MAR-2013 20:59

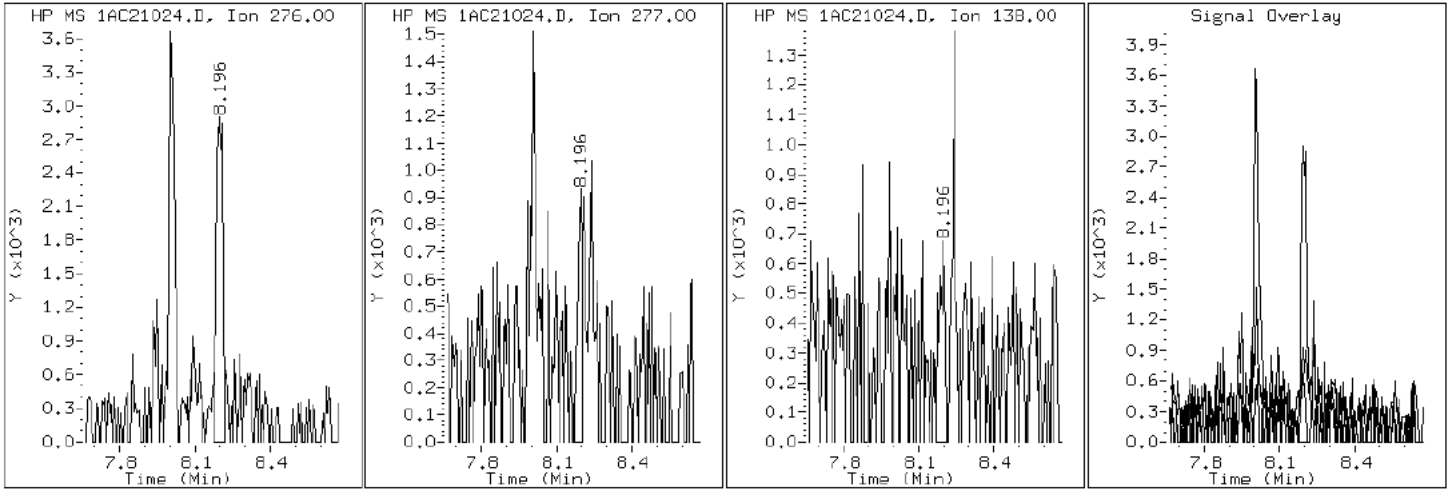
Client ID: HP0035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-4-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC21024.D

Date: 21-MAR-2013 20:59

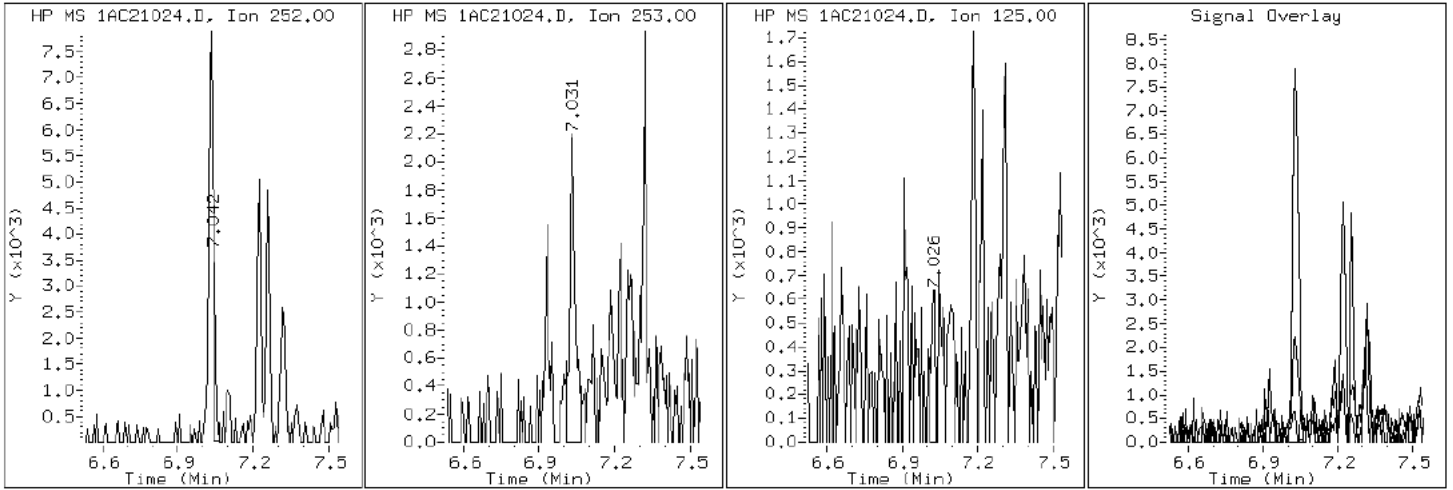
Client ID: HP0035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-4-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC21024.D

Date: 21-MAR-2013 20:59

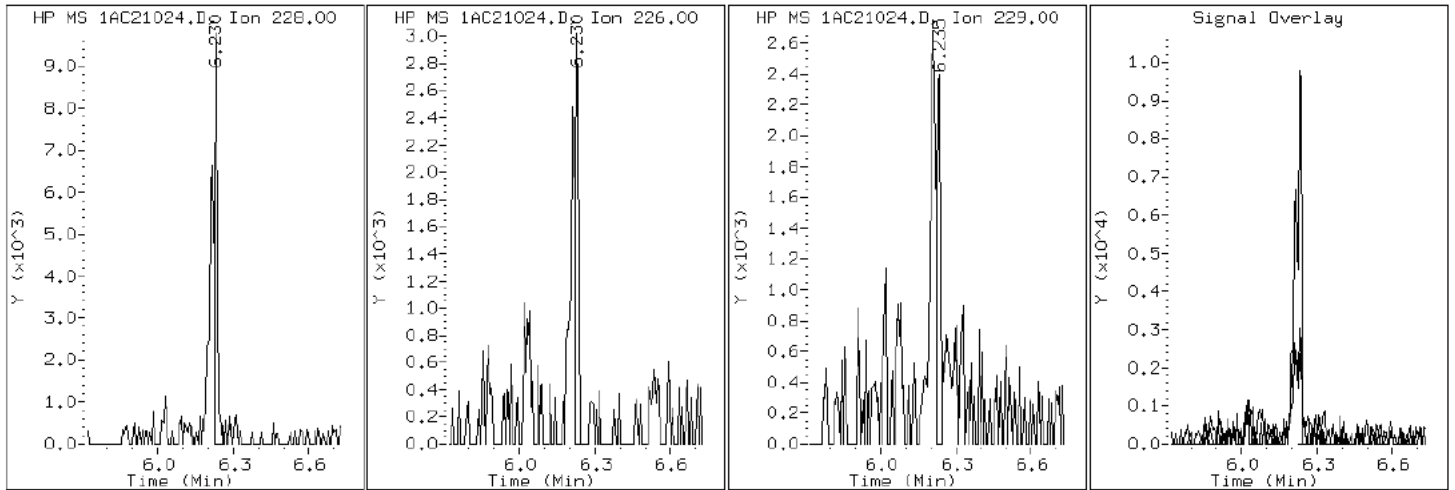
Client ID: HP0035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-4-a

Operator: SCC

19 Chrysene



Data File: 1AC21024.D

Date: 21-MAR-2013 20:59

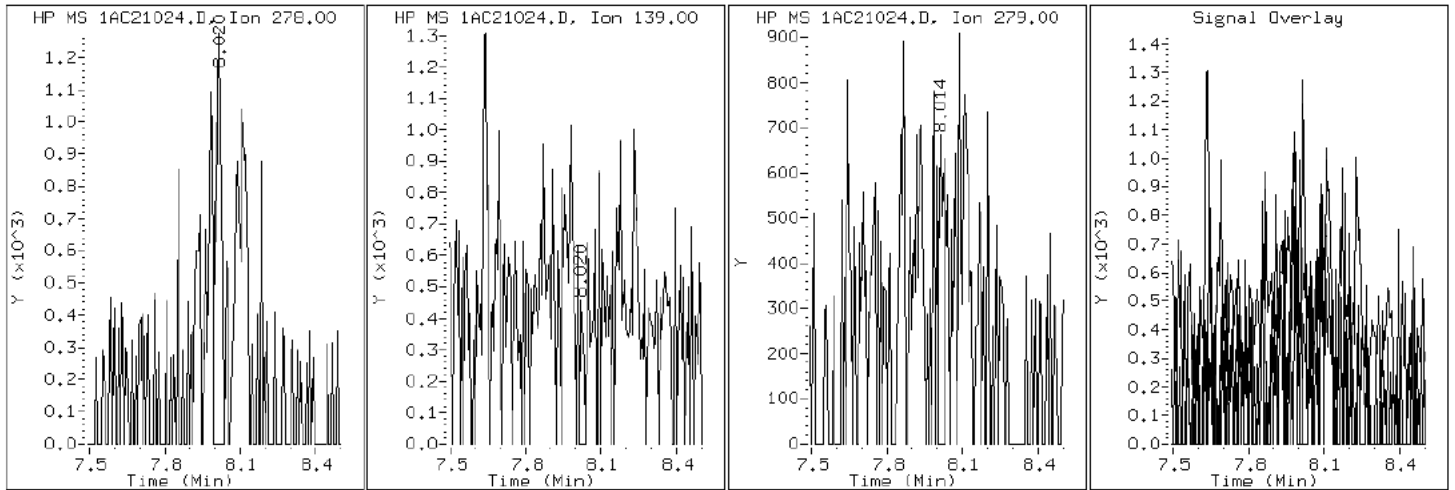
Client ID: HP0035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-4-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC21024.D

Date: 21-MAR-2013 20:59

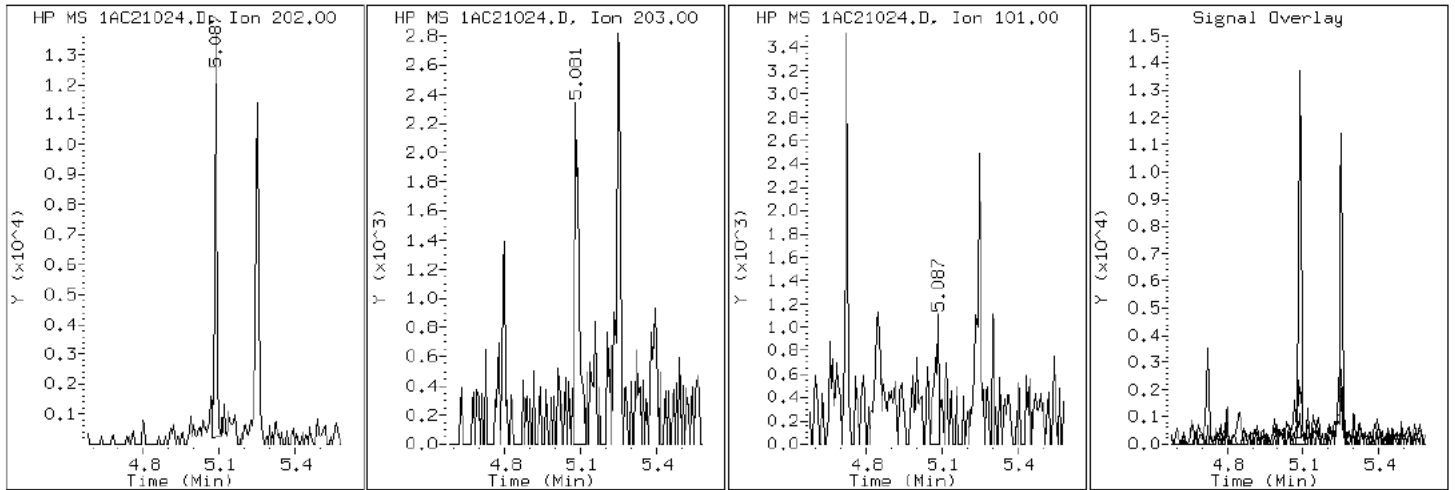
Client ID: HP0035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-4-a

Operator: SCC

15 Fluoranthene



Data File: 1AC21024.D

Date: 21-MAR-2013 20:59

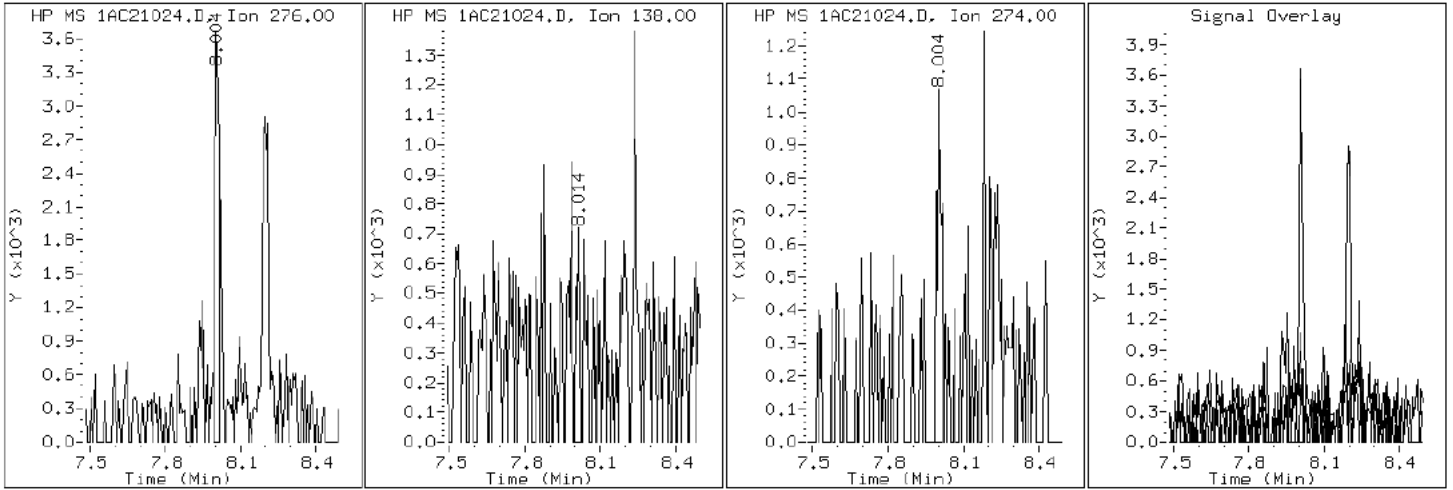
Client ID: HP0035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-4-a

Operator: SCC

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





Data File: 1AC21024.D

Date: 21-MAR-2013 20:59

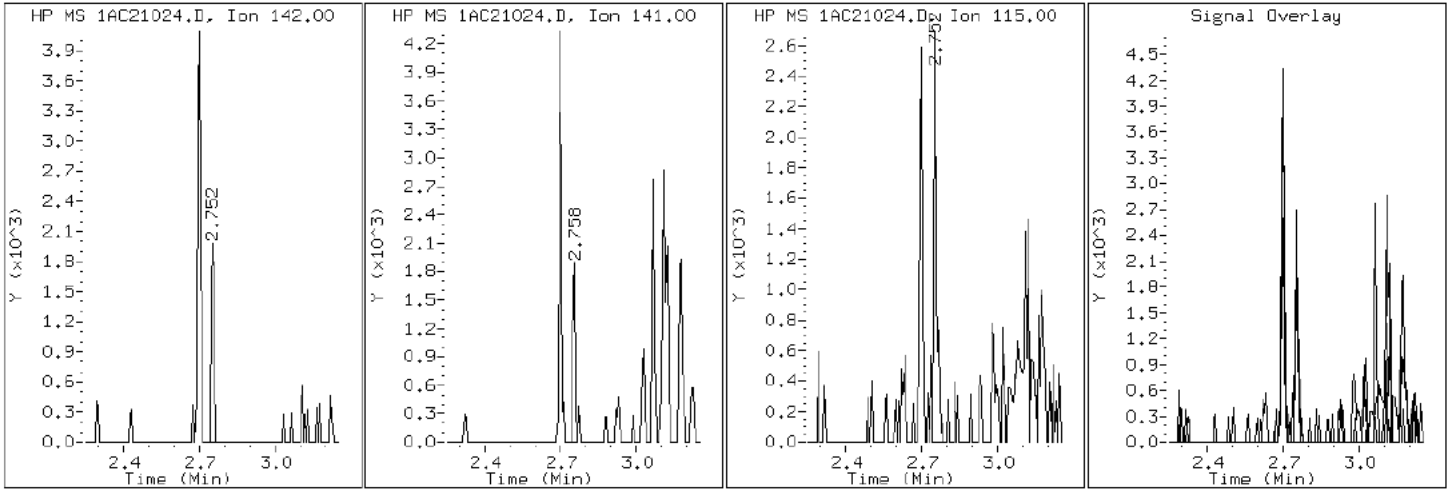
Client ID: HP0035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-4-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC21024.D

Date: 21-MAR-2013 20:59

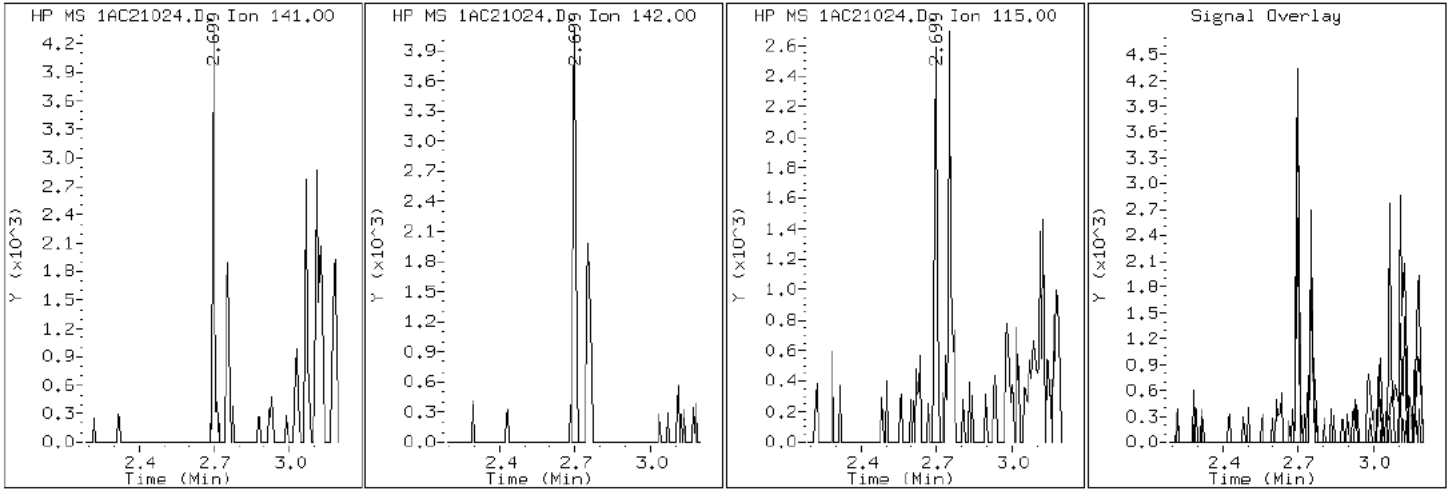
Client ID: HP0035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-4-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC21024.D

Date: 21-MAR-2013 20:59

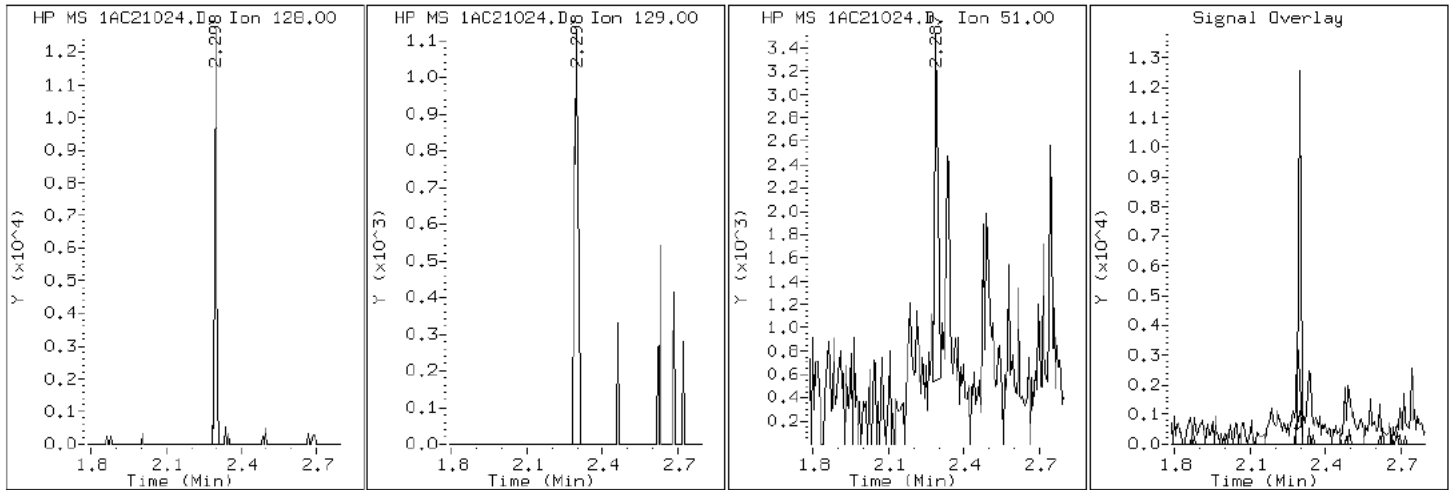
Client ID: HP0035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-4-a

Operator: SCC

2 Naphthalene



Data File: 1AC21024.D

Date: 21-MAR-2013 20:59

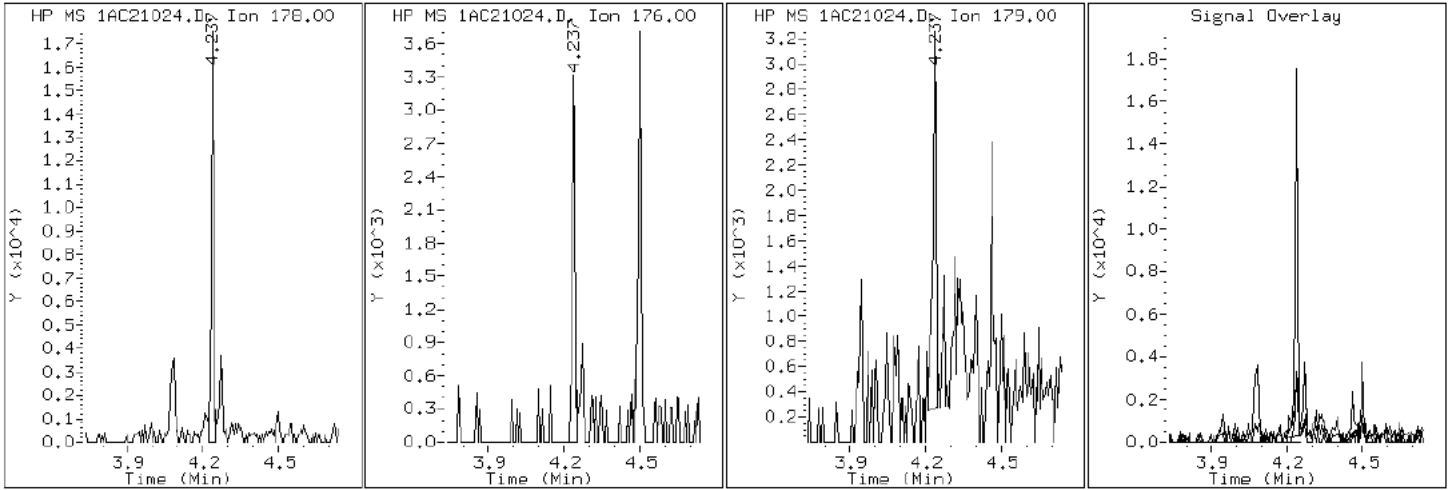
Client ID: HP0035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-4-a

Operator: SCC

11 Phenanthrene



Data File: 1AC21024.D

Date: 21-MAR-2013 20:59

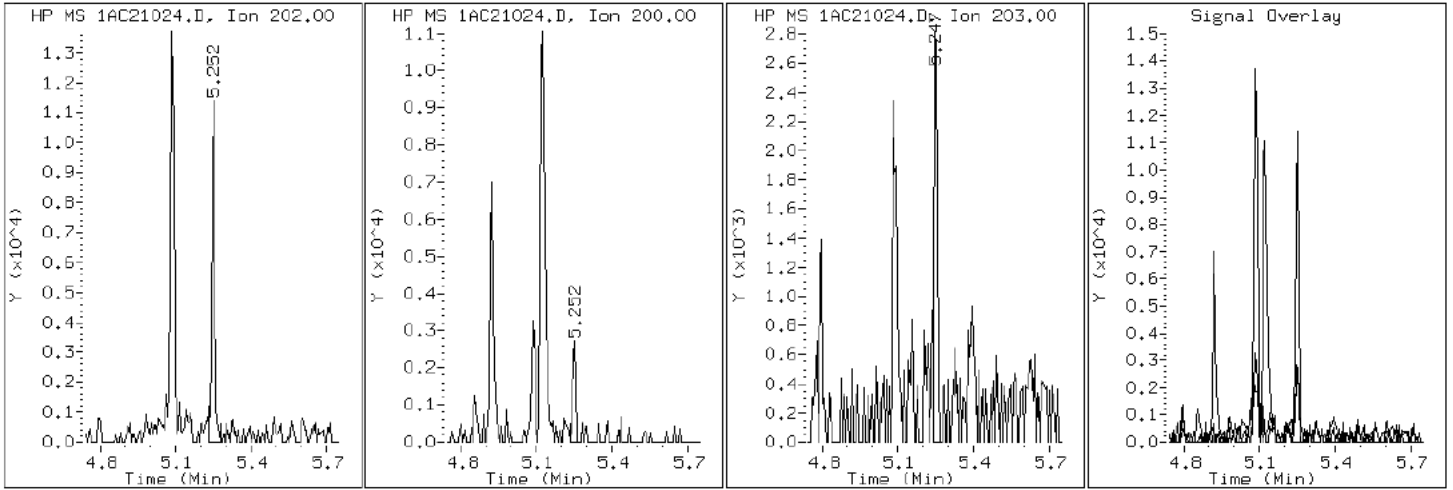
Client ID: HP0035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-4-a

Operator: SCC

16 Pyrene

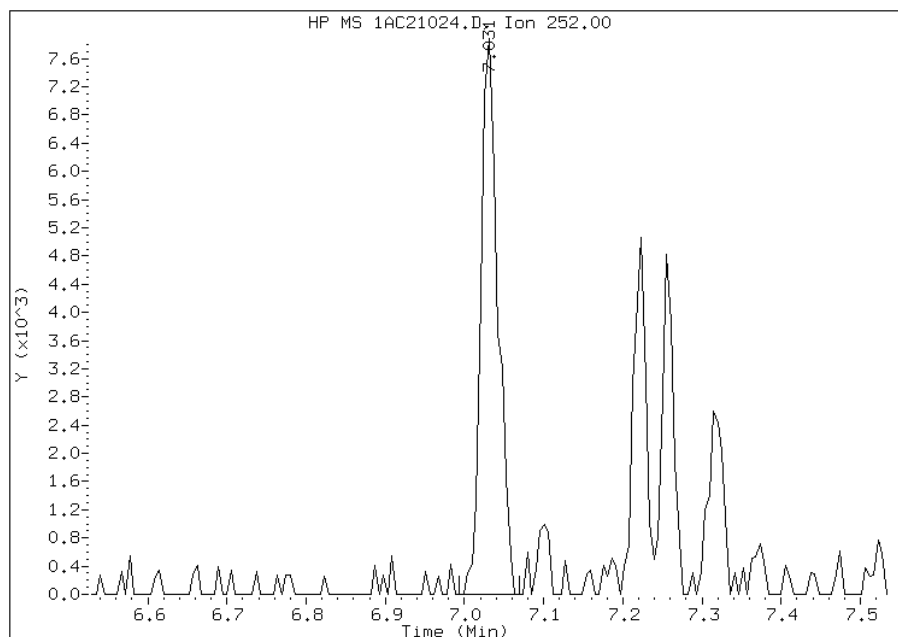


# Manual Integration Report

Data File: 1AC21024.D  
Inj. Date and Time: 21-MAR-2013 20:59  
Instrument ID: BSMA5973.i  
Client ID: HP0035A-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 03/26/2013

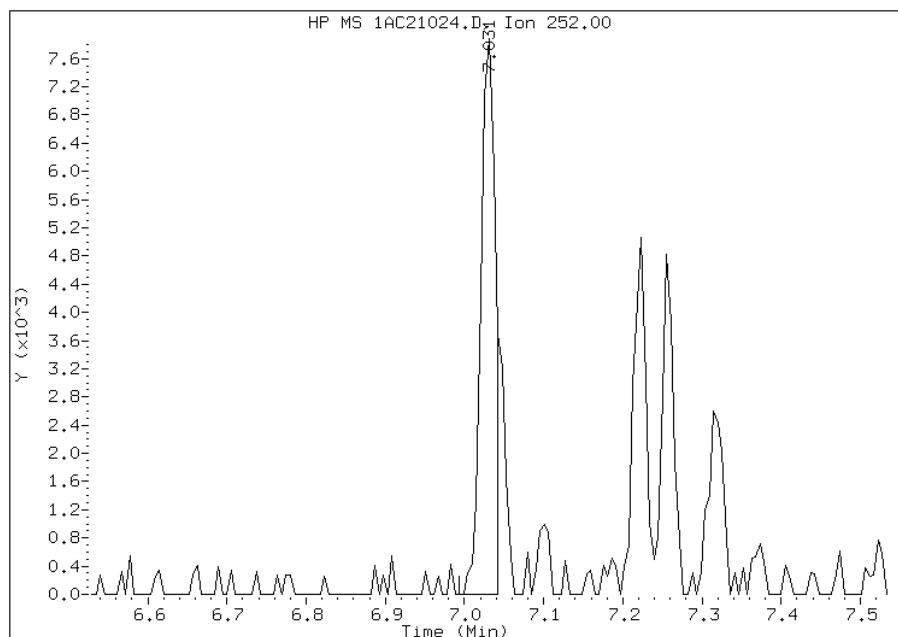
## Processing Integration Results

RT: 7.03  
Response: 11649  
Amount: 2  
Conc: 184



## Manual Integration Results

RT: 7.03  
Response: 9914  
Amount: 2  
Conc: 173



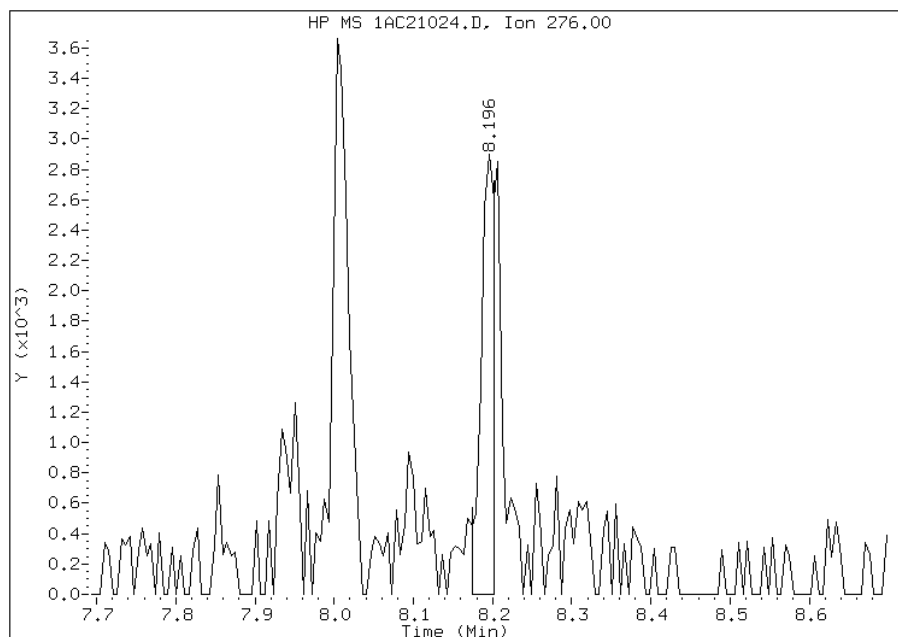
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:36  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AC21024.D  
Inj. Date and Time: 21-MAR-2013 20:59  
Instrument ID: BSMA5973.i  
Client ID: HP0035A-CS  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 03/26/2013

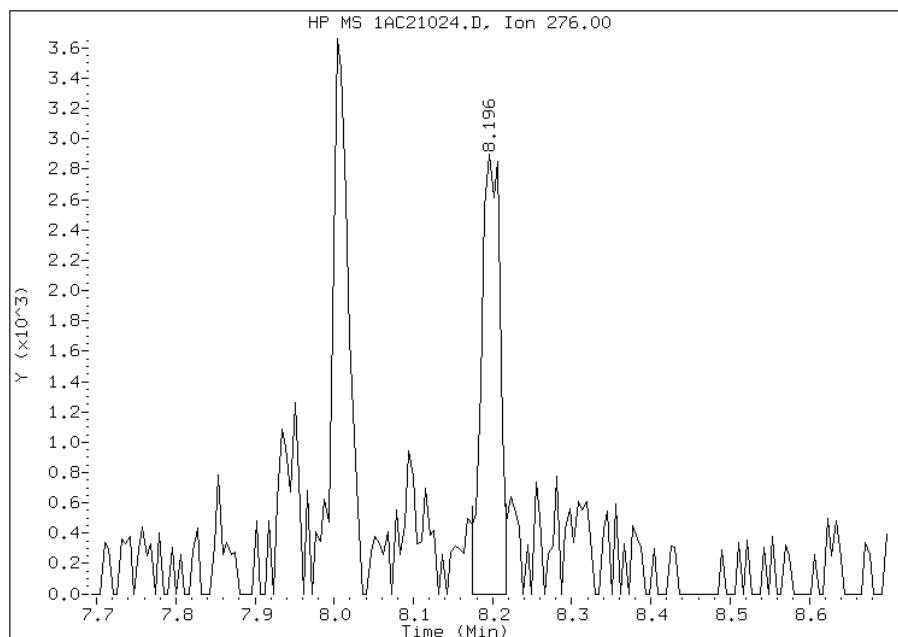
## Processing Integration Results

RT: 8.20  
Response: 3335  
Amount: 0  
Conc: 27



## Manual Integration Results

RT: 8.20  
Response: 4756  
Amount: 0  
Conc: 39



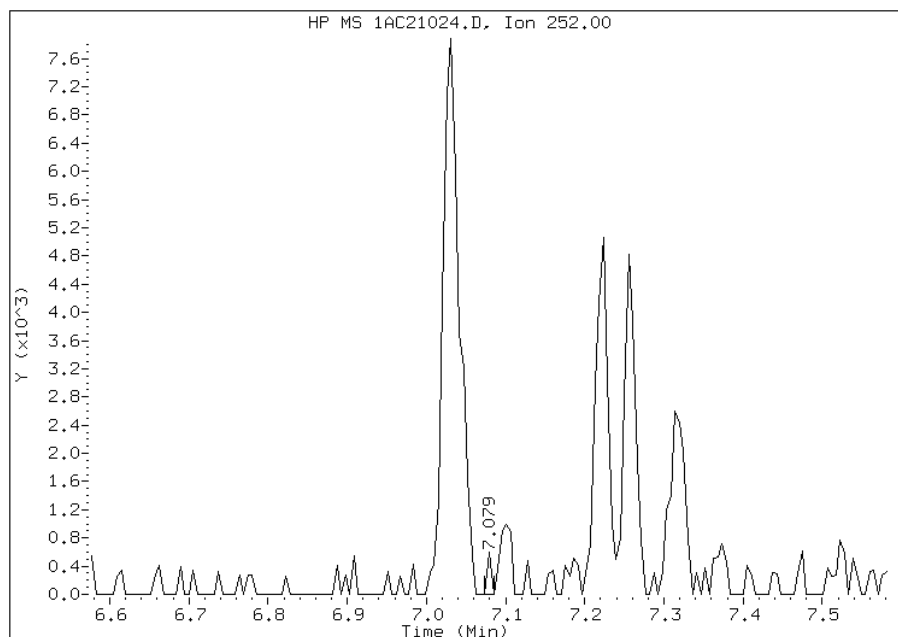
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:37  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AC21024.D  
Inj. Date and Time: 21-MAR-2013 20:59  
Instrument ID: BSMA5973.i  
Client ID: HP0035A-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 03/26/2013

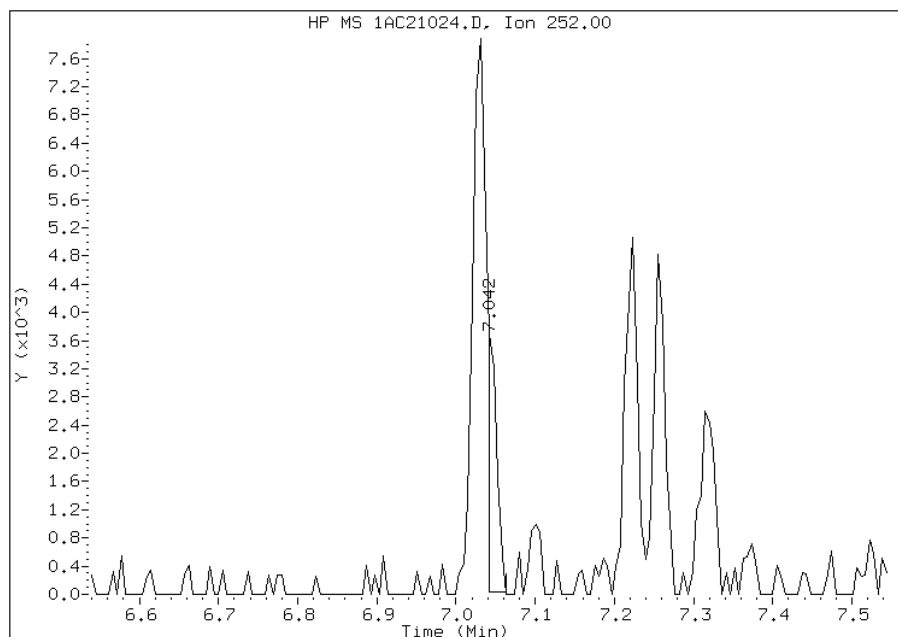
## Processing Integration Results

RT: 7.08  
Response: 189  
Amount: 0  
Conc: 1



## Manual Integration Results

RT: 7.04  
Response: 2856  
Amount: 0  
Conc: 18



Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:36  
Manual Integration Reason: Baseline Event

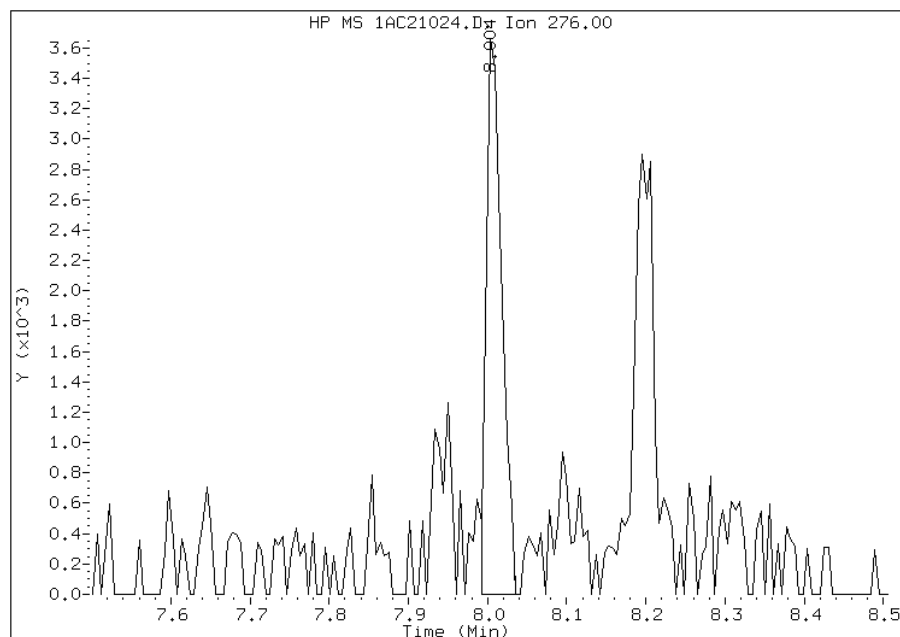


# Manual Integration Report

Data File: 1AC21024.D  
Inj. Date and Time: 21-MAR-2013 20:59  
Instrument ID: BSMA5973.i  
Client ID: HP0035A-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/26/2013

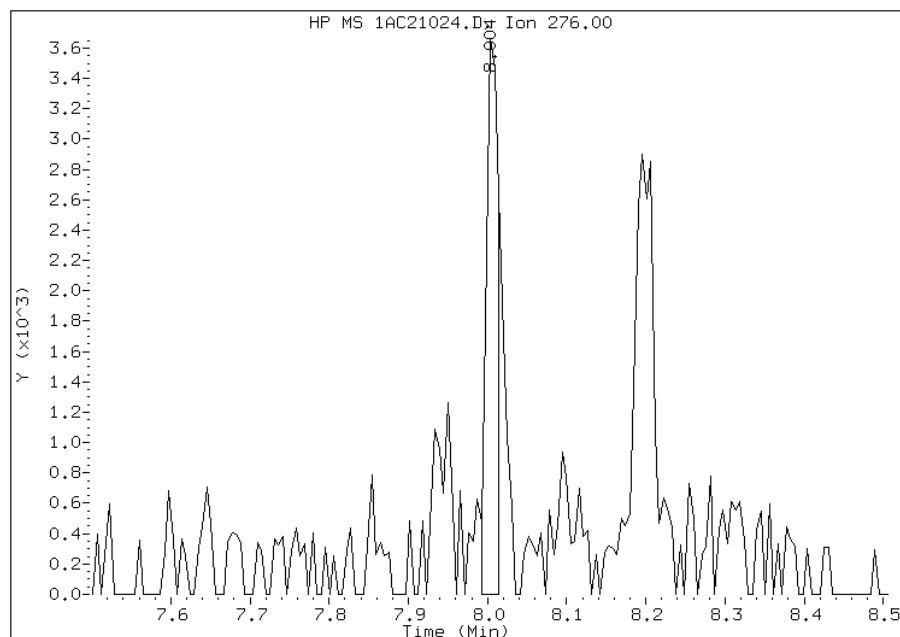
## Processing Integration Results

RT: 8.00  
Response: 4909  
Amount: 0  
Conc: 40



## Manual Integration Results

RT: 8.00  
Response: 3851  
Amount: 0  
Conc: 32



Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:37  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: HP0035A-CSD Lab Sample ID: 680-88420-5  
 Matrix: Solid Lab File ID: 1AC21025.D  
 Analysis Method: 8270C LL Date Collected: 03/14/2013 09:45  
 Extract. Method: 3546 Date Extracted: 03/21/2013 08:38  
 Sample wt/vol: 14.90 (g) Date Analyzed: 03/21/2013 21:14  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: 24.5 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135630 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	16		11	5.6
56-55-3	Benzo[a]anthracene	47		11	5.2
50-32-8	Benzo[a]pyrene	24		14	6.9
205-99-2	Benzo[b]fluoranthene	150		16	8.1
191-24-2	Benzo[g,h,i]perylene	25	J	27	5.9
207-08-9	Benzo[k]fluoranthene	12		11	4.8
218-01-9	Chrysene	87		12	6.0
53-70-3	Dibenz(a,h)anthracene	14	J	27	5.5
206-44-0	Fluoranthene	60		27	5.3
86-73-7	Fluorene	27	U	27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	23	J	27	9.5
90-12-0	1-Methylnaphthalene	23	J	53	5.9
91-57-6	2-Methylnaphthalene	110		53	9.5
91-20-3	Naphthalene	66		53	5.9
85-01-8	Phenanthrene	70		11	5.2
129-00-0	Pyrene	47		27	4.9

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMA5973.i\1A032113.b\1AC21025.D  
 Lab Smp Id: 680-88420-A-5-A Client Smp ID: HP0035A-CSD  
 Inj Date : 21-MAR-2013 21:14  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-88420-a-5-a  
 Misc Info : 680-88420-A-5-A  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMA5973.i\1A032113.b\a-bFASTPAHi-m.m  
 Meth Date : 21-Mar-2013 17:07 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D  
 Als bottle: 20  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.900	Weight Extracted
M	24.502	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.290	2.282	(1.000)	542105	40.0000	
* 6 Acenaphthene-d10	164		3.305	3.302	(1.000)	381474	40.0000	
* 10 Phenanthrene-d10	188		4.229	4.221	(1.000)	553018	40.0000	
\$ 14 o-Terphenyl	230		4.502	4.499	(1.064)	39232	5.47205	486.4363
* 18 Chrysene-d12	240		6.222	6.208	(1.000)	451399	40.0000	
* 23 Perylene-d12	264		7.317	7.292	(1.000)	609941	40.0000	
2 Naphthalene	128		2.296	2.292	(1.002)	9355	0.74694	66.3989
3 2-Methylnaphthalene	141		2.702	2.693	(1.180)	2374	1.18987	105.7735
4 1-Methylnaphthalene	142		2.755	2.752	(1.203)	1833	0.25452	22.6254
11 Phenanthrene	178		4.240	4.237	(1.003)	11022	0.78638	69.9052
12 Anthracene	178		4.272	4.269	(1.010)	2440	0.17954	15.9600
13 Carbazole	167		4.438	4.424	(1.049)	1818	0.15262	13.5673
15 Fluoranthene	202		5.089	5.081	(1.203)	9380	0.67702	60.1836
16 Pyrene	202		5.250	5.246	(0.844)	6848	0.52910	47.0345

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
17 Benzo(a)anthracene	228	6.211	6.197	(0.998)	4780	0.53352	47.4271(Q)
19 Chrysene	228	6.233	6.224	(1.002)	11483	0.98217	87.3101
20 Benzo(b)fluoranthene	252	7.029	7.015	(0.961)	8572	1.71272	152.2521(M)
21 Benzo(k)fluoranthene	252	7.045	7.036	(0.963)	2299	0.13973	12.4216(QMH)
22 Benzo(a)pyrene	252	7.264	7.244	(0.993)	3944	0.27553	24.4934(Q)
24 Indeno(1,2,3-cd)pyrene	276	8.012	7.987	(1.095)	3303	0.25574	22.7336(M)
25 Dibenzo(a,h)anthracene	278	8.017	7.998	(1.096)	2063	0.16116	14.3266
26 Benzo(g,h,i)perylene	276	8.199	8.169	(1.120)	3642	0.28013	24.9024

QC Flag Legend

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

Data File: 1AC21025.D

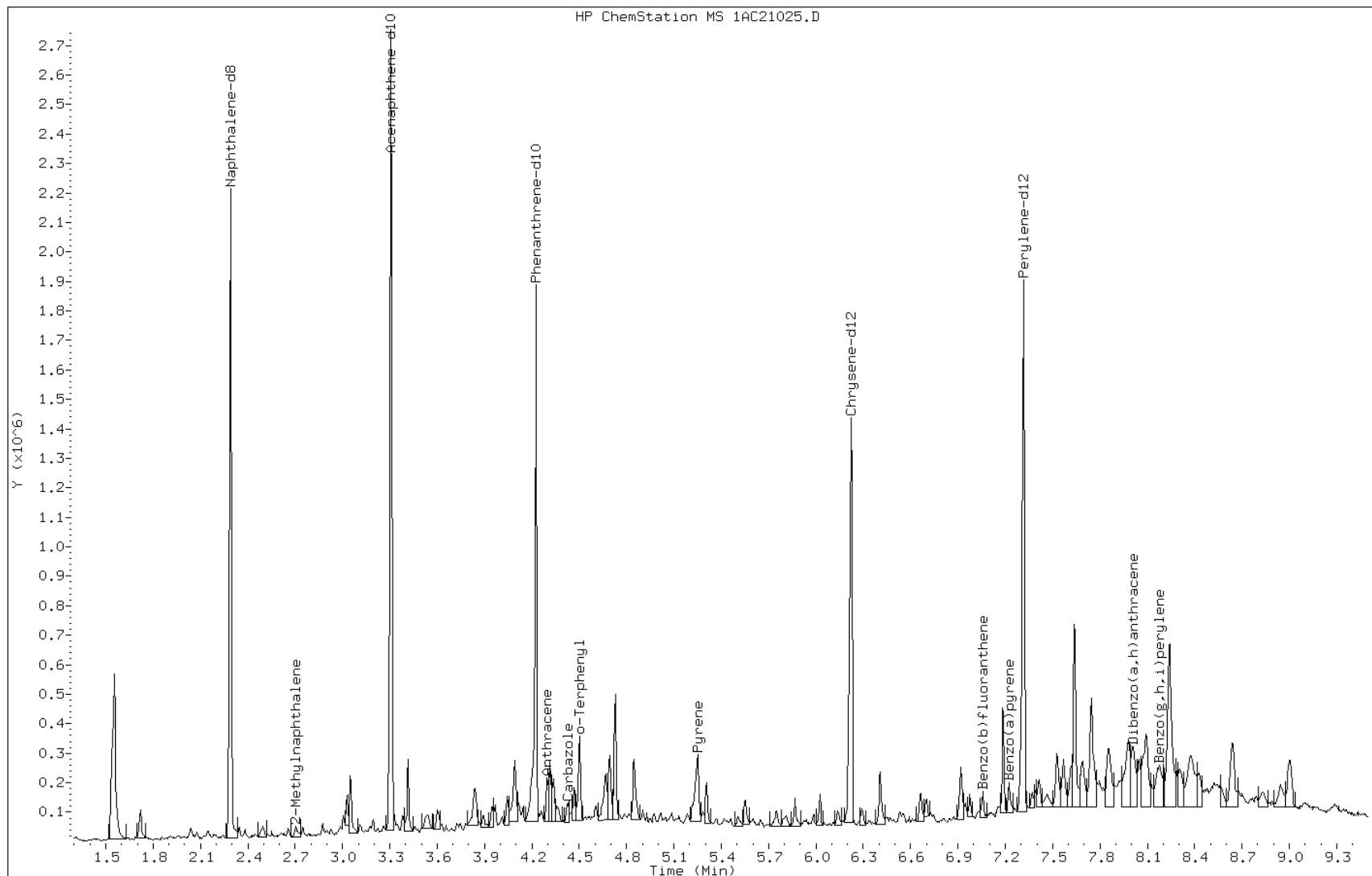
Date: 21-MAR-2013 21:14

Client ID: HP0035A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-5-a

Operator: SCC



Data File: 1AC21025.D

Date: 21-MAR-2013 21:14

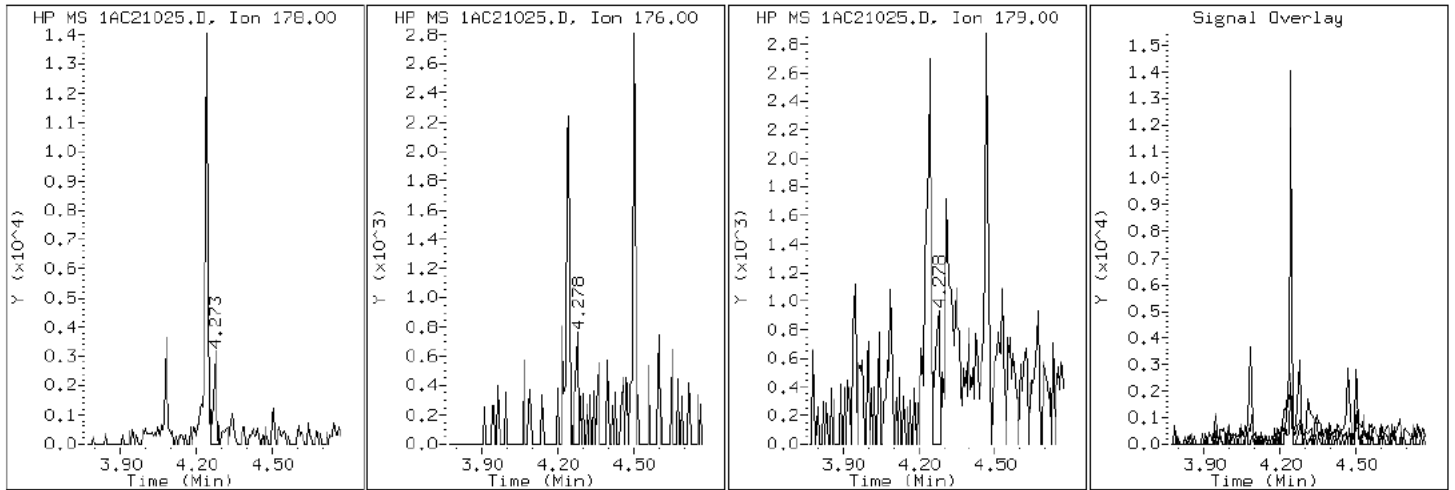
Client ID: HP0035A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-5-a

Operator: SCC

12 Anthracene



Data File: 1AC21025.D

Date: 21-MAR-2013 21:14

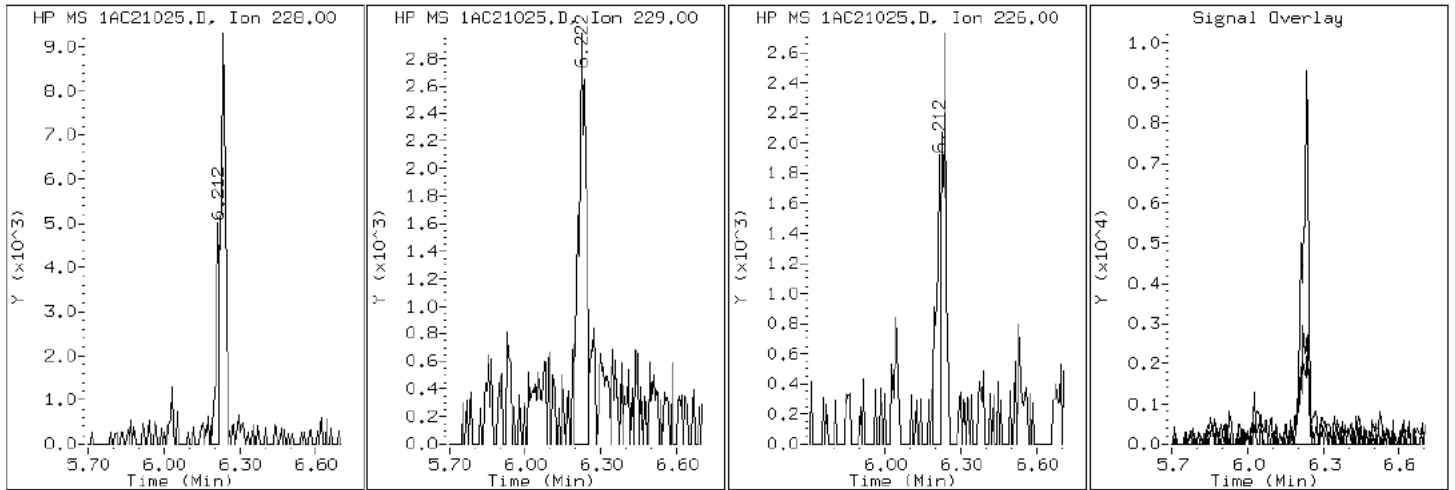
Client ID: HP0035A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-5-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC21025.D

Date: 21-MAR-2013 21:14

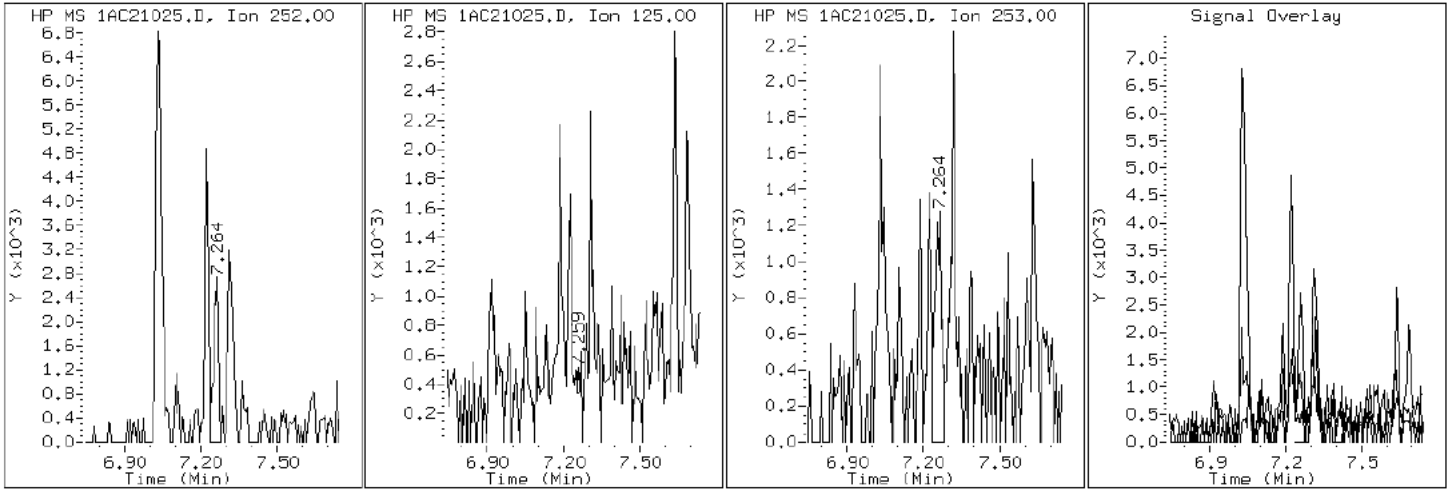
Client ID: HP0035A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-5-a

Operator: SCC

22 Benzo(a)pyrene





Data File: 1AC21025.D

Date: 21-MAR-2013 21:14

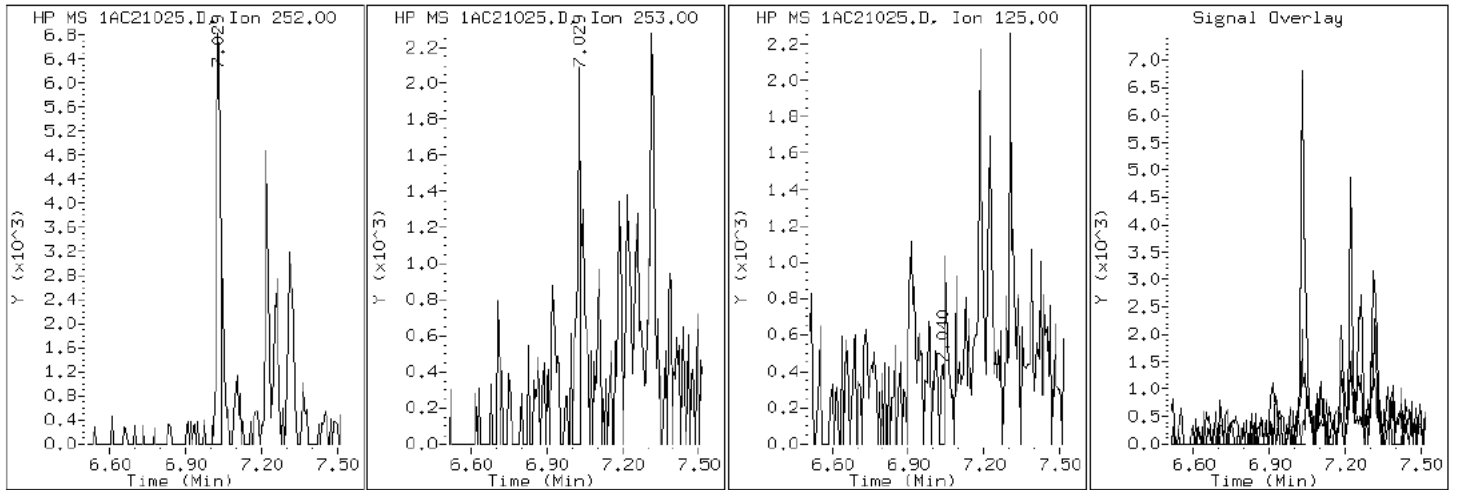
Client ID: HP0035A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-5-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC21025.D

Date: 21-MAR-2013 21:14

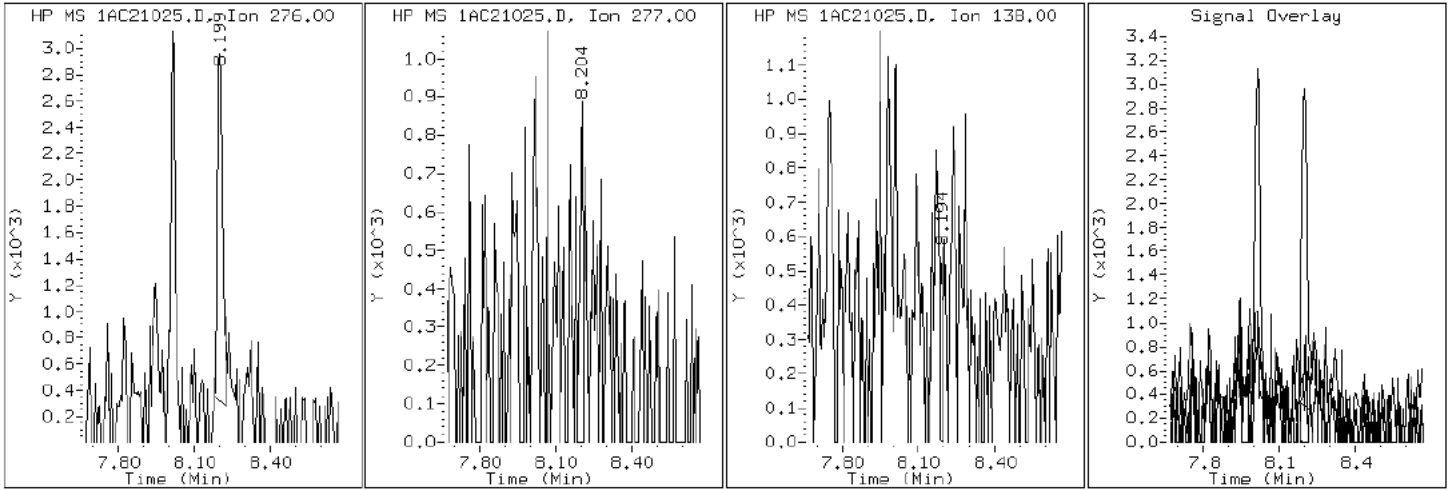
Client ID: HP0035A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-5-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC21025.D

Date: 21-MAR-2013 21:14

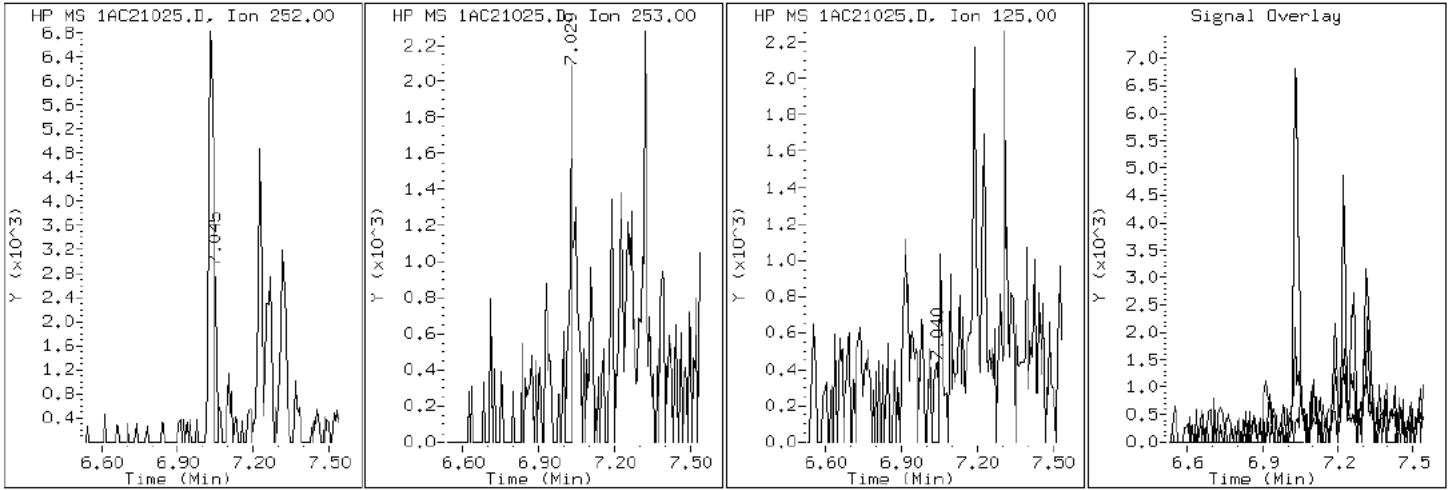
Client ID: HP0035A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-5-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC21025.D

Date: 21-MAR-2013 21:14

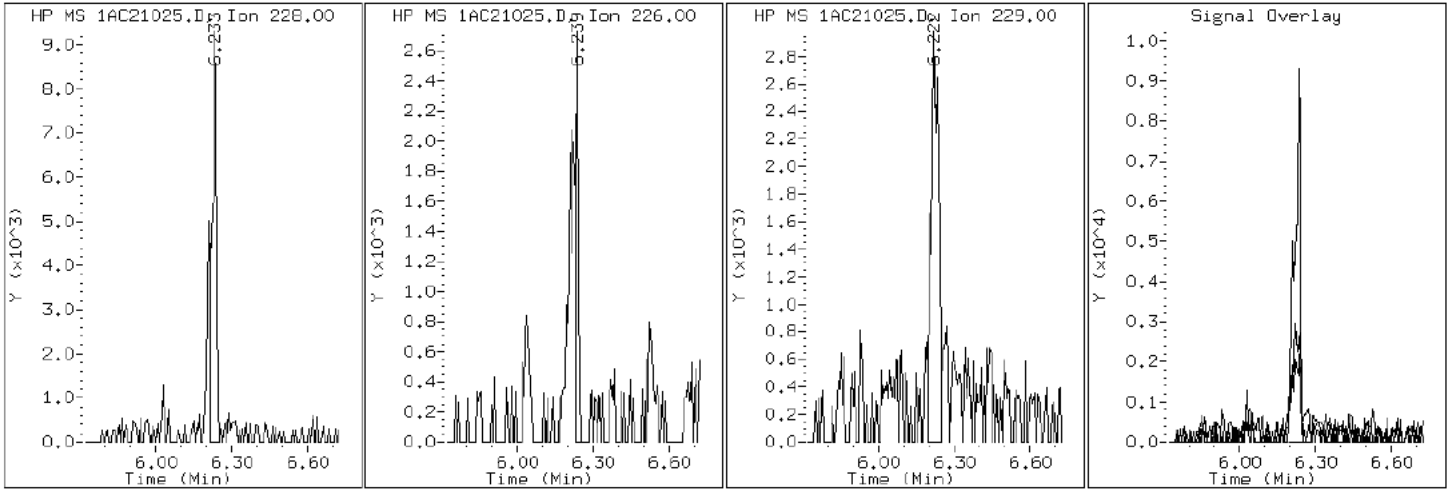
Client ID: HP0035A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-5-a

Operator: SCC

19 Chrysene



Data File: 1AC21025.D

Date: 21-MAR-2013 21:14

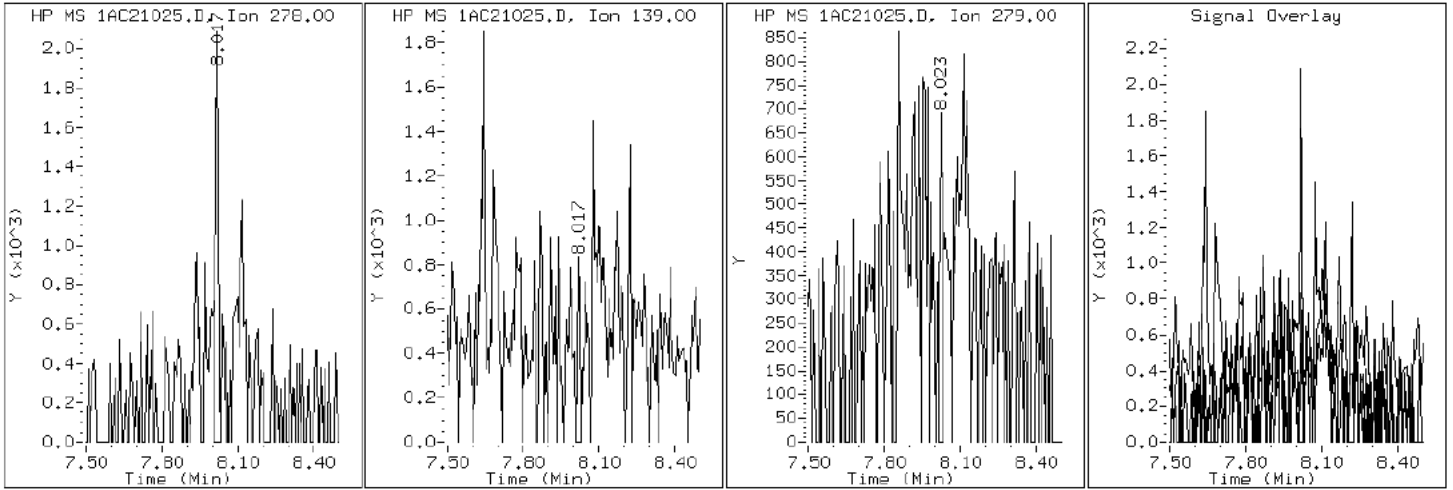
Client ID: HP0035A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-5-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC21025.D

Date: 21-MAR-2013 21:14

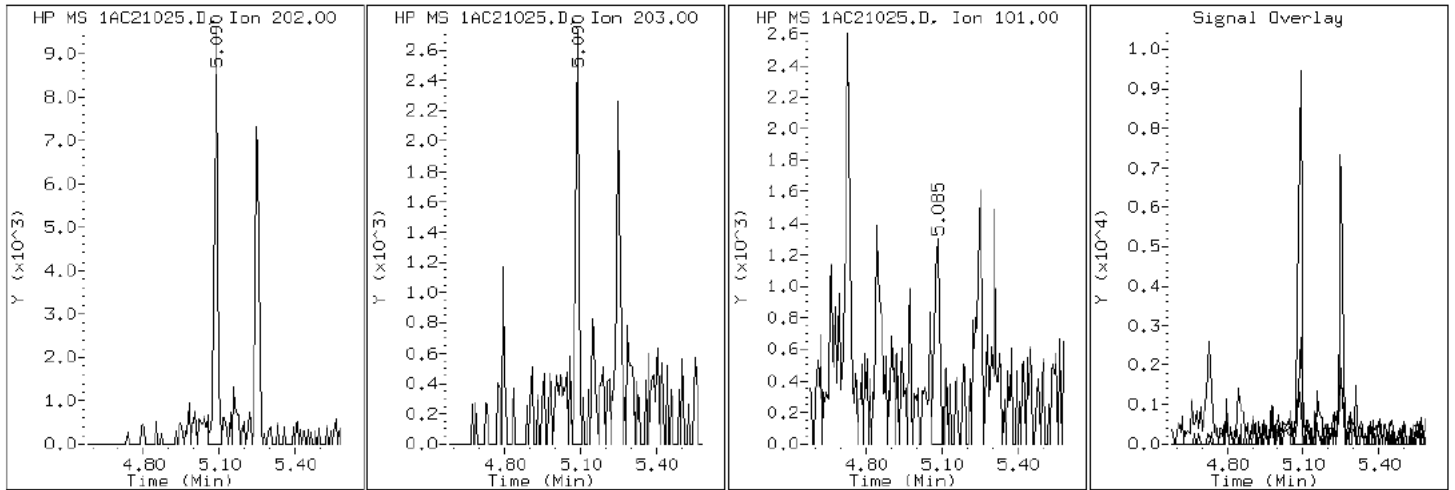
Client ID: HP0035A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-5-a

Operator: SCC

15 Fluoranthene



Data File: 1AC21025.D

Date: 21-MAR-2013 21:14

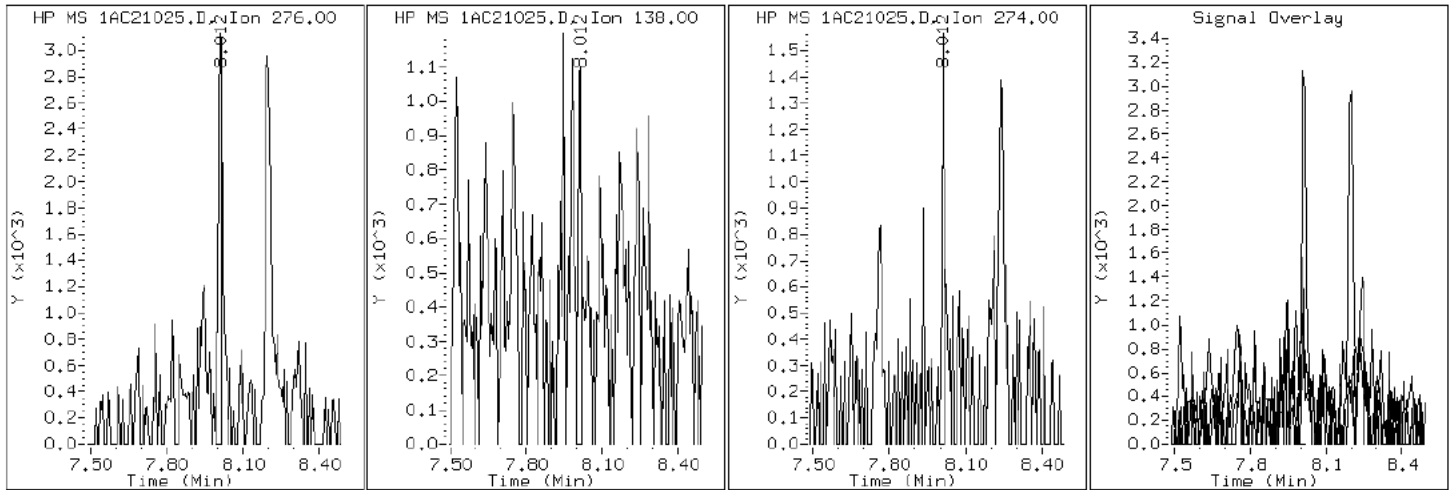
Client ID: HP0035A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-5-a

Operator: SCC

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



Data File: 1AC21025.D

Date: 21-MAR-2013 21:14

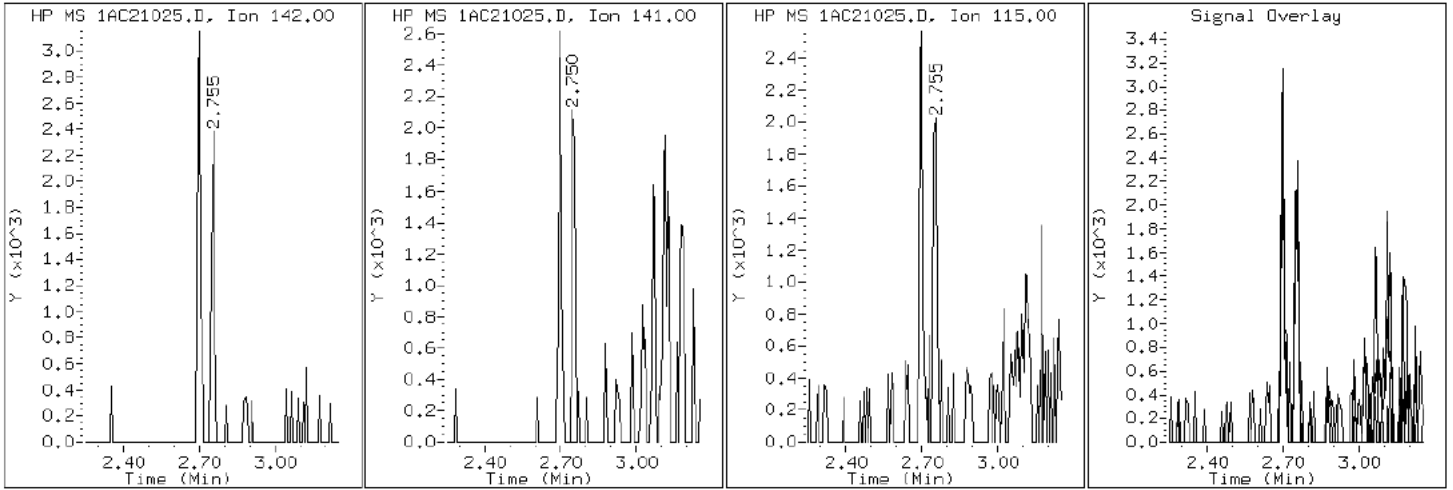
Client ID: HP0035A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-5-a

Operator: SCC

4 1-Methylnaphthalene





Data File: 1AC21025.D

Date: 21-MAR-2013 21:14

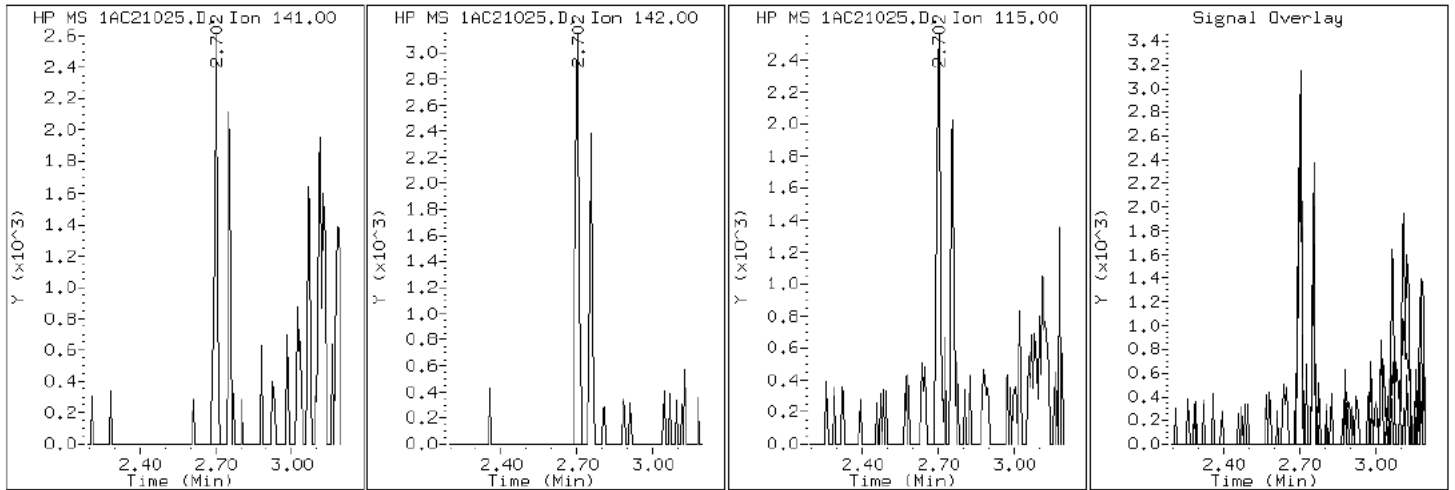
Client ID: HP0035A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-5-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC21025.D

Date: 21-MAR-2013 21:14

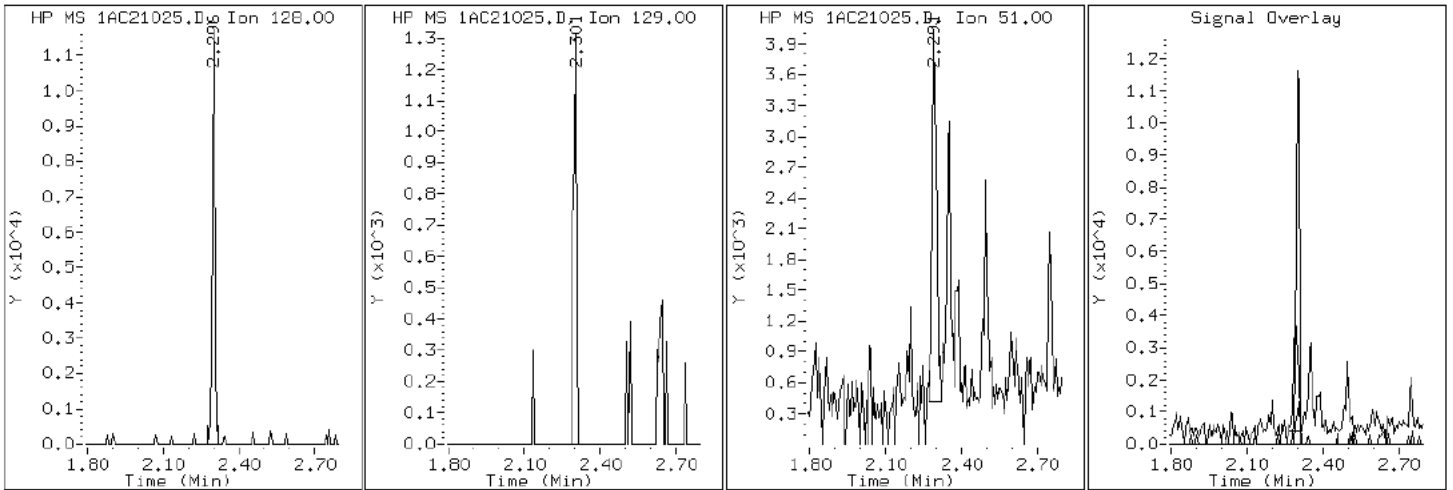
Client ID: HP0035A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-5-a

Operator: SCC

2 Naphthalene



Data File: 1AC21025.D

Date: 21-MAR-2013 21:14

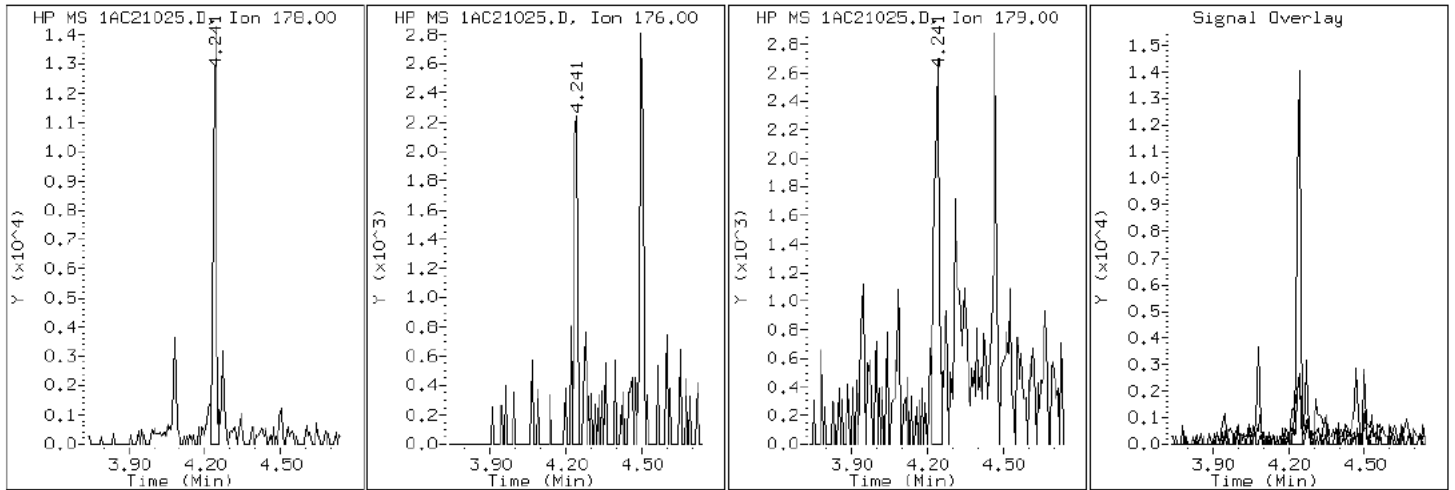
Client ID: HP0035A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-5-a

Operator: SCC

11 Phenanthrene



Data File: 1AC21025.D

Date: 21-MAR-2013 21:14

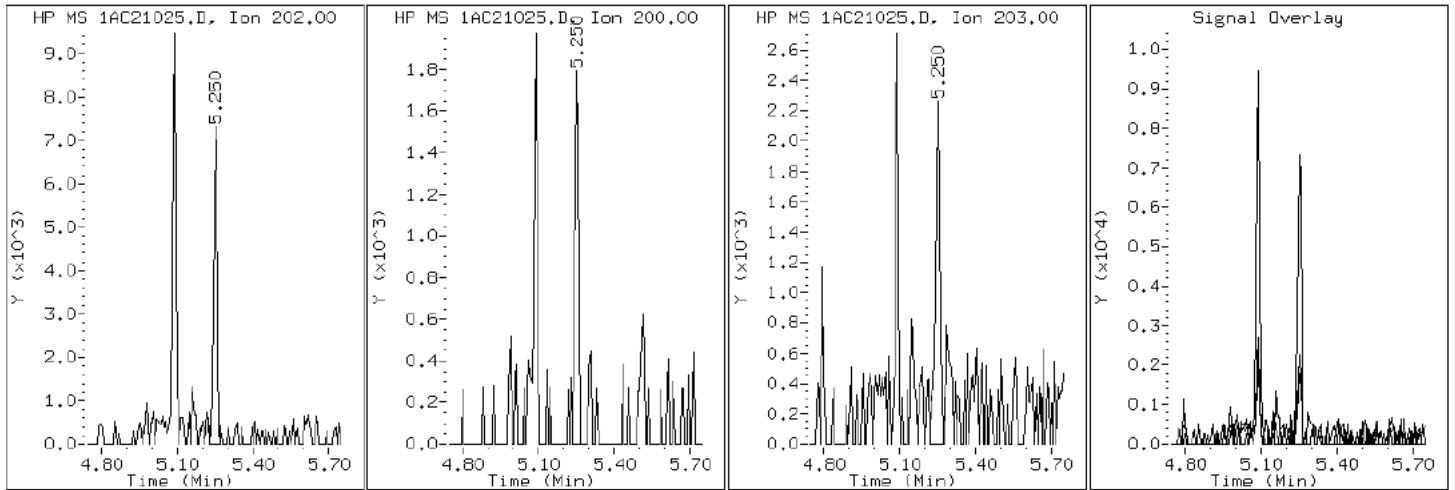
Client ID: HP0035A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-5-a

Operator: SCC

16 Pyrene

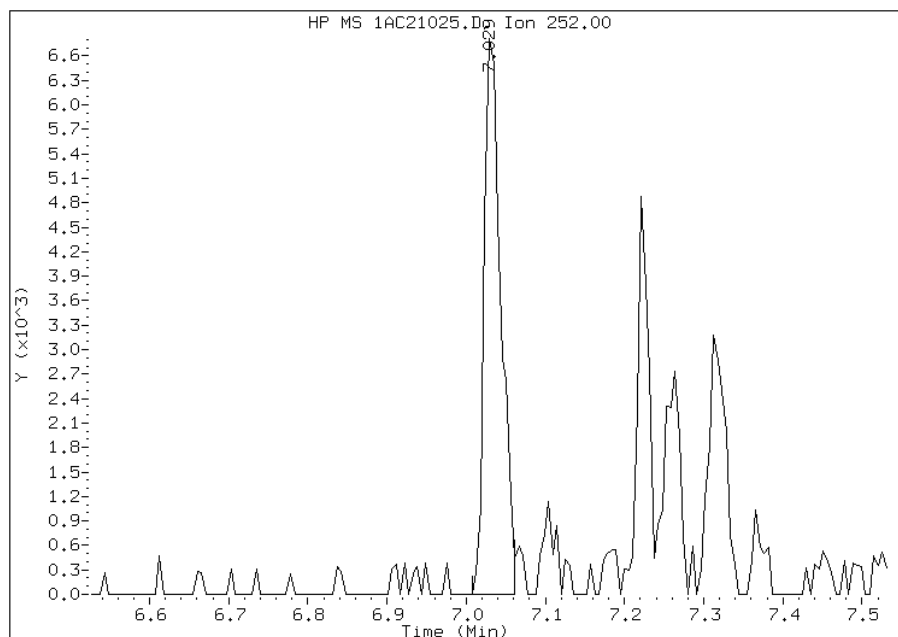


# Manual Integration Report

Data File: 1AC21025.D  
Inj. Date and Time: 21-MAR-2013 21:14  
Instrument ID: BSMA5973.i  
Client ID: HP0035A-CSD  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 03/26/2013

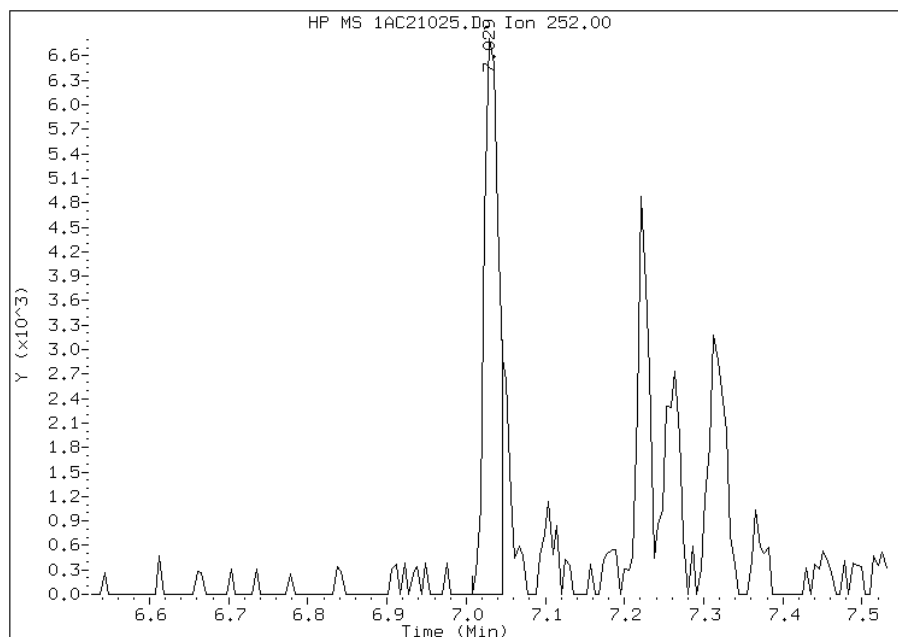
## Processing Integration Results

RT: 7.03  
Response: 9948  
Amount: 2  
Conc: 160



## Manual Integration Results

RT: 7.03  
Response: 8572  
Amount: 2  
Conc: 152



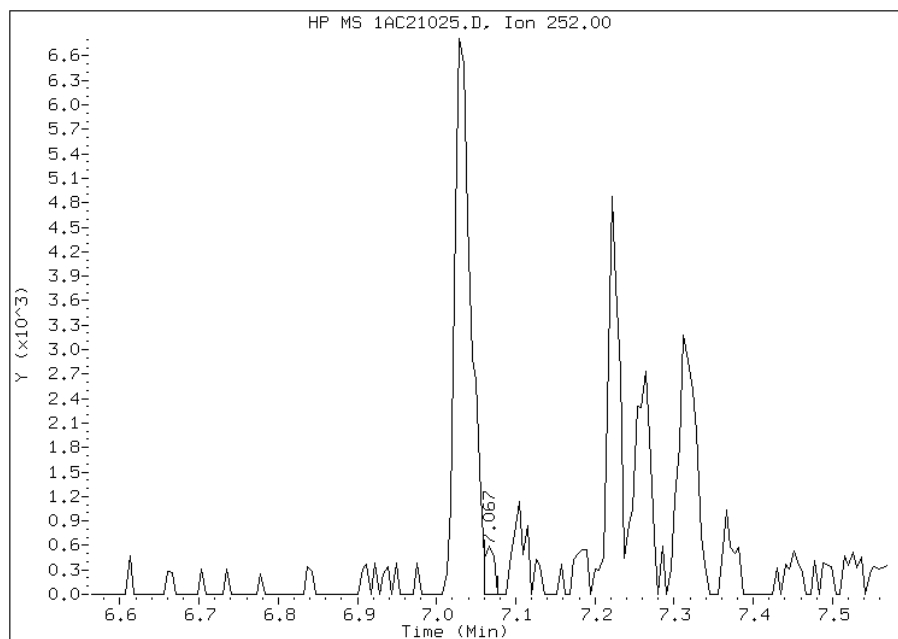
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:38  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AC21025.D  
Inj. Date and Time: 21-MAR-2013 21:14  
Instrument ID: BSMA5973.i  
Client ID: HP0035A-CSD  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 03/26/2013

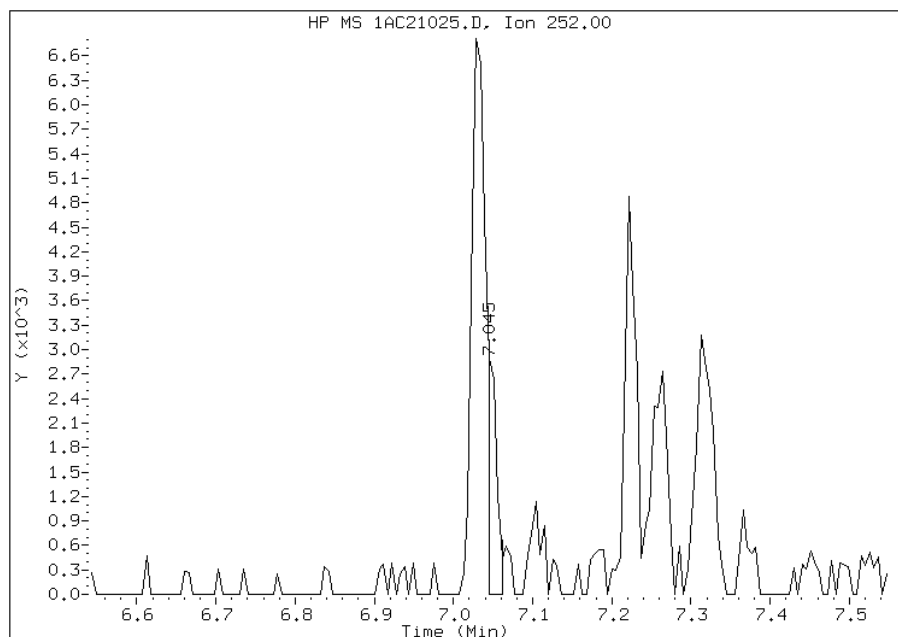
## Processing Integration Results

RT: 7.07  
Response: 480  
Amount: 0  
Conc: 3



## Manual Integration Results

RT: 7.05  
Response: 2299  
Amount: 0  
Conc: 12



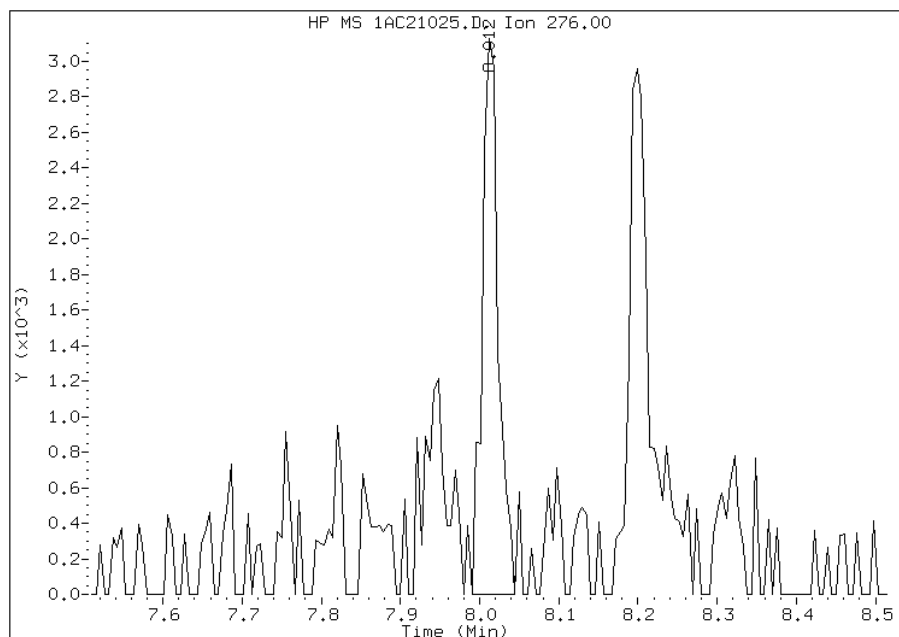
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:39  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AC21025.D  
Inj. Date and Time: 21-MAR-2013 21:14  
Instrument ID: BSMA5973.i  
Client ID: HP0035A-CSD  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/26/2013

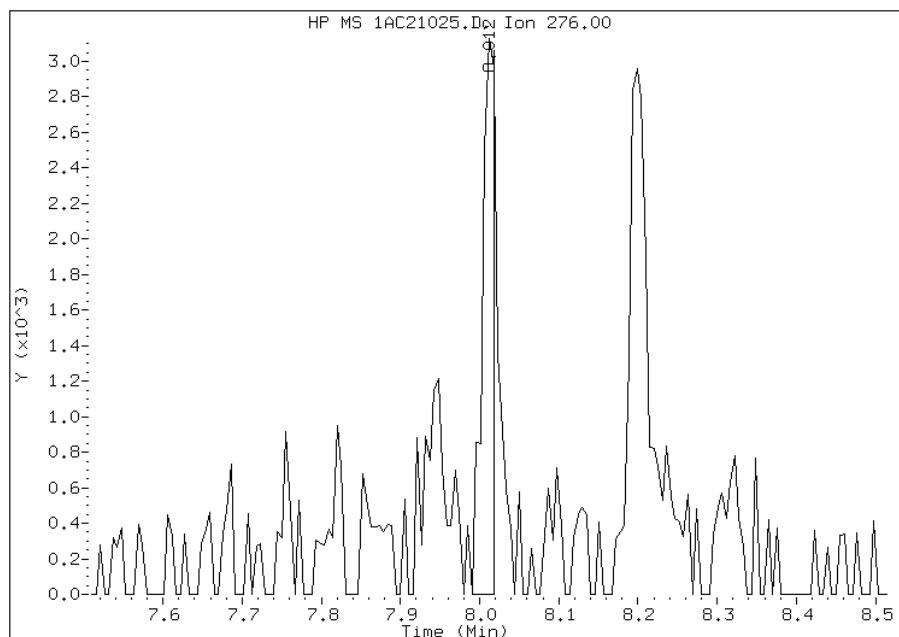
## Processing Integration Results

RT: 8.01  
Response: 4341  
Amount: 0  
Conc: 30



## Manual Integration Results

RT: 8.01  
Response: 3303  
Amount: 0  
Conc: 23



Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:40  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: CV0951A-CS Lab Sample ID: 680-88420-6  
 Matrix: Solid Lab File ID: 1AC21026.D  
 Analysis Method: 8270C LL Date Collected: 03/14/2013 10:10  
 Extract. Method: 3546 Date Extracted: 03/21/2013 08:38  
 Sample wt/vol: 14.92(g) Date Analyzed: 03/21/2013 21:29  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 32.1 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135630 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	590	U	590	120
208-96-8	Acenaphthylene	240	U	240	30
120-12-7	Anthracene	81		50	25
56-55-3	Benzo[a]anthracene	240		47	23
50-32-8	Benzo[a]pyrene	110		62	31
205-99-2	Benzo[b]fluoranthene	620		72	36
191-24-2	Benzo[g,h,i]perylene	130		120	26
207-08-9	Benzo[k]fluoranthene	120		47	21
218-01-9	Chrysene	270		53	27
53-70-3	Dibenz(a,h)anthracene	43	J	120	24
206-44-0	Fluoranthene	190		120	24
86-73-7	Fluorene	120	U	120	24
193-39-5	Indeno[1,2,3-cd]pyrene	88	J	120	42
90-12-0	1-Methylnaphthalene	93	J	240	26
91-57-6	2-Methylnaphthalene	450		240	42
91-20-3	Naphthalene	130	J	240	26
85-01-8	Phenanthrene	140		47	23
129-00-0	Pyrene	230		120	22

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



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\1AC21026.D  
 Lab Smp Id: 680-88420-A-6-A Client Smp ID: CV0951A-CS  
 Inj Date : 21-MAR-2013 21:29  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-88420-a-6-a  
 Misc Info : 680-88420-A-6-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\a-bFASTPAHi-m.m  
 Meth Date : 21-Mar-2013 17:07 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D  
 Als bottle: 21  
 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	14.920	Weight Extracted
M	32.062	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136			2.290	2.282	(1.000)	436950	40.0000	
* 6 Acenaphthene-d10	164			3.305	3.302	(1.000)	348698	40.0000	
* 10 Phenanthrene-d10	188			4.229	4.221	(1.000)	529336	40.0000	
\$ 14 o-Terphenyl	230			4.497	4.499	(1.063)	8234	1.28052	505.3141
* 18 Chrysene-d12	240			6.222	6.208	(1.000)	371223	40.0000	
* 23 Perylene-d12	264			7.317	7.292	(1.000)	495195	40.0000	
2 Naphthalene	128			2.301	2.292	(1.005)	3216	0.31857	125.7142
3 2-Methylnaphthalene	141			2.702	2.693	(1.180)	1570	1.13441	447.6567
4 1-Methylnaphthalene	142			2.755	2.752	(1.203)	1361	0.23446	92.5216
11 Phenanthrene	178			4.240	4.237	(1.003)	4777	0.35607	140.5114
12 Anthracene	178			4.272	4.269	(1.010)	2657	0.20425	80.6013
15 Fluoranthene	202			5.090	5.081	(1.203)	6516	0.49135	193.8937
16 Pyrene	202			5.250	5.246	(0.844)	6203	0.58278	229.9745
17 Benzo(a)anthracene	228			6.217	6.197	(0.999)	4866	0.62038	244.8114

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		----	-----	-----	-----	-----	-----
19 Chrysene	228		6.233	6.224	(1.002)	6496	0.67562	266.6125
20 Benzo(b)fluoranthene	252		7.029	7.015	(0.961)	4971	1.56700	618.3655(M)
21 Benzo(k)fluoranthene	252		7.034	7.036	(0.961)	4118	0.30829	121.6572(MH)
22 Benzo(a)pyrene	252		7.258	7.244	(0.992)	3194	0.27484	108.4573
24 Indeno(1,2,3-cd)pyrene	276		8.001	7.987	(1.093)	2340	0.22316	88.0617(M)
25 Dibenzo(a,h)anthracene	278		8.012	7.998	(1.095)	1122	0.10796	42.6038
26 Benzo(g,h,i)perylene	276		8.193	8.169	(1.120)	3434	0.32534	128.3849

QC Flag Legend

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

Data File: 1AC21026.D

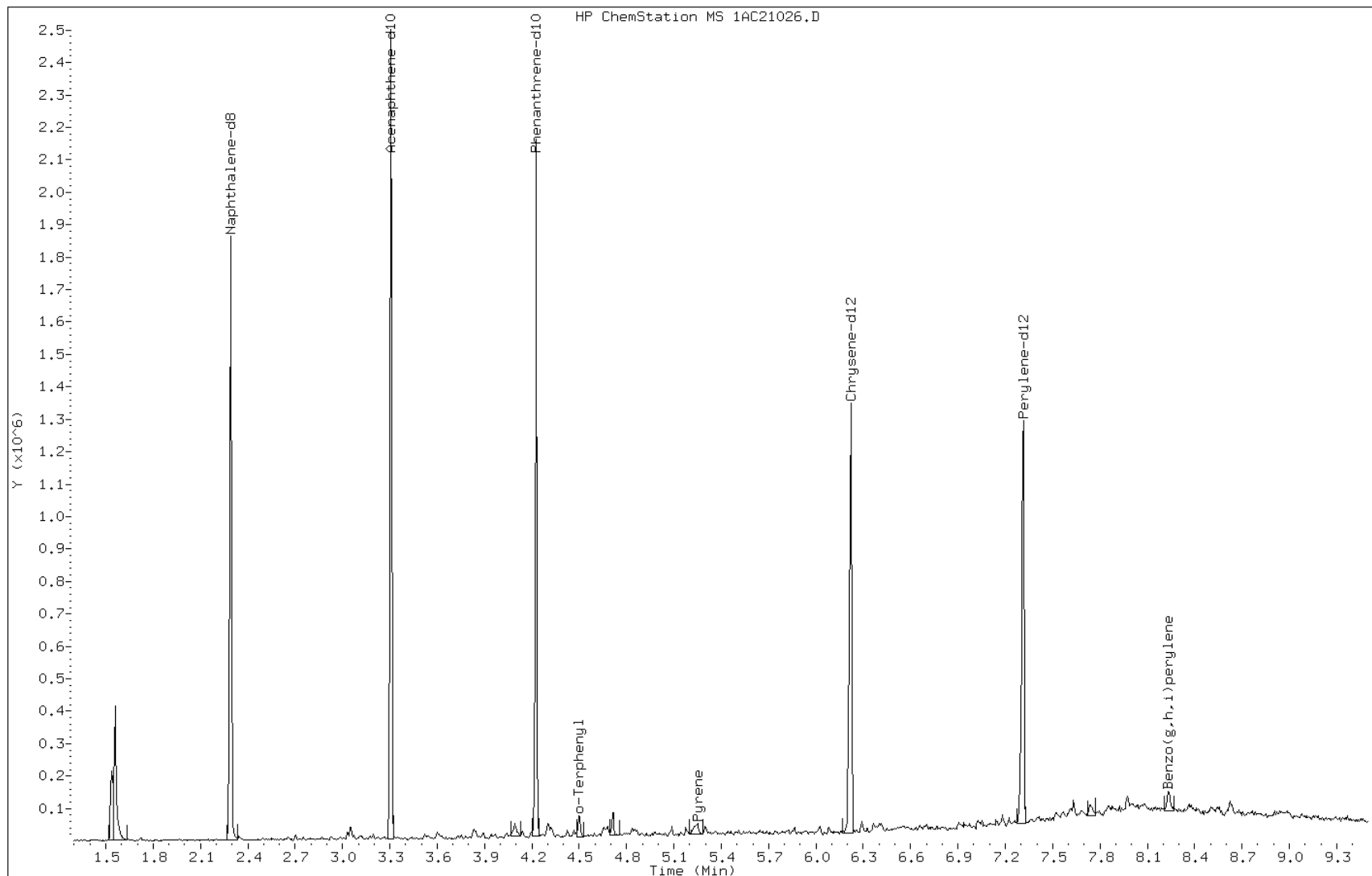
Date: 21-MAR-2013 21:29

Client ID: CV0951A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-6-a

Operator: SCC



Data File: 1AC21026.D

Date: 21-MAR-2013 21:29

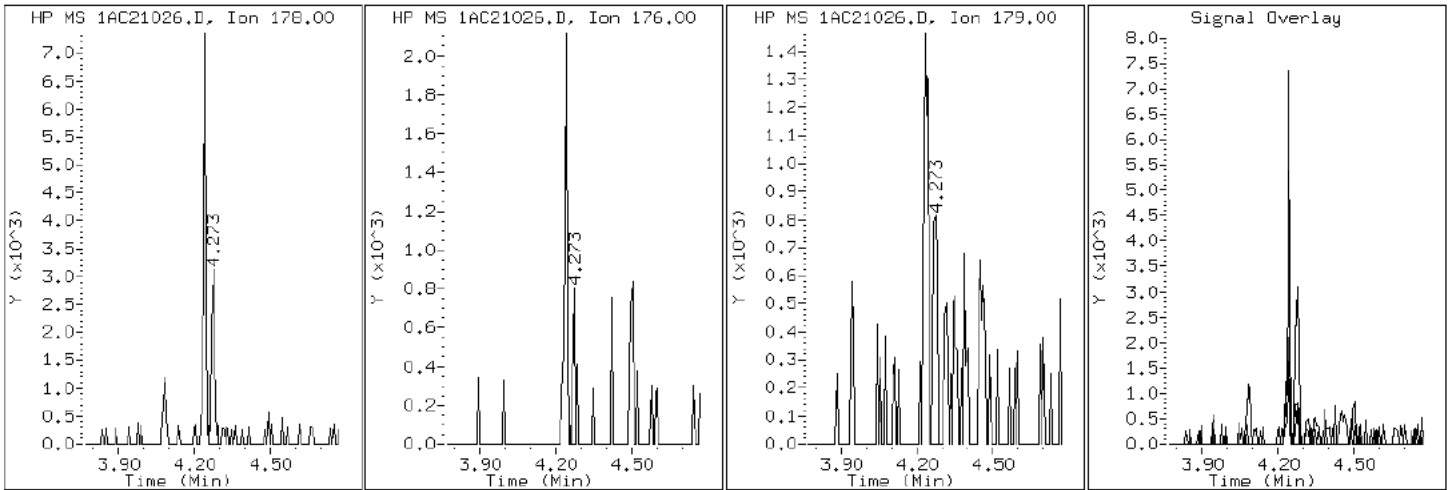
Client ID: CV0951A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-6-a

Operator: SCC

12 Anthracene



Data File: 1AC21026.D

Date: 21-MAR-2013 21:29

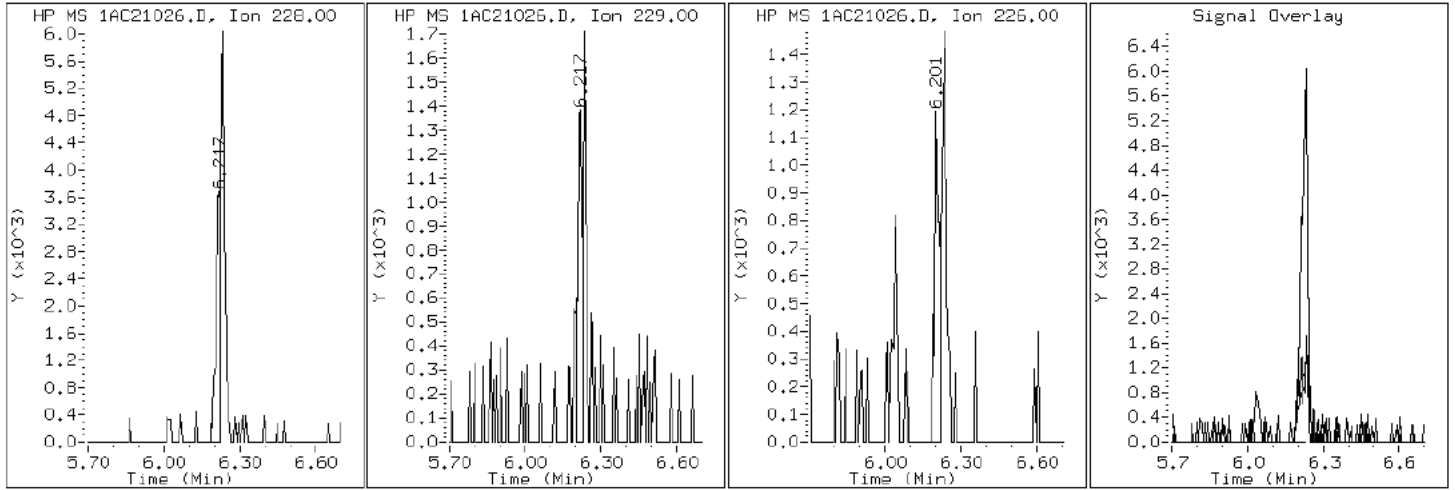
Client ID: CV0951A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-6-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC21026.D

Date: 21-MAR-2013 21:29

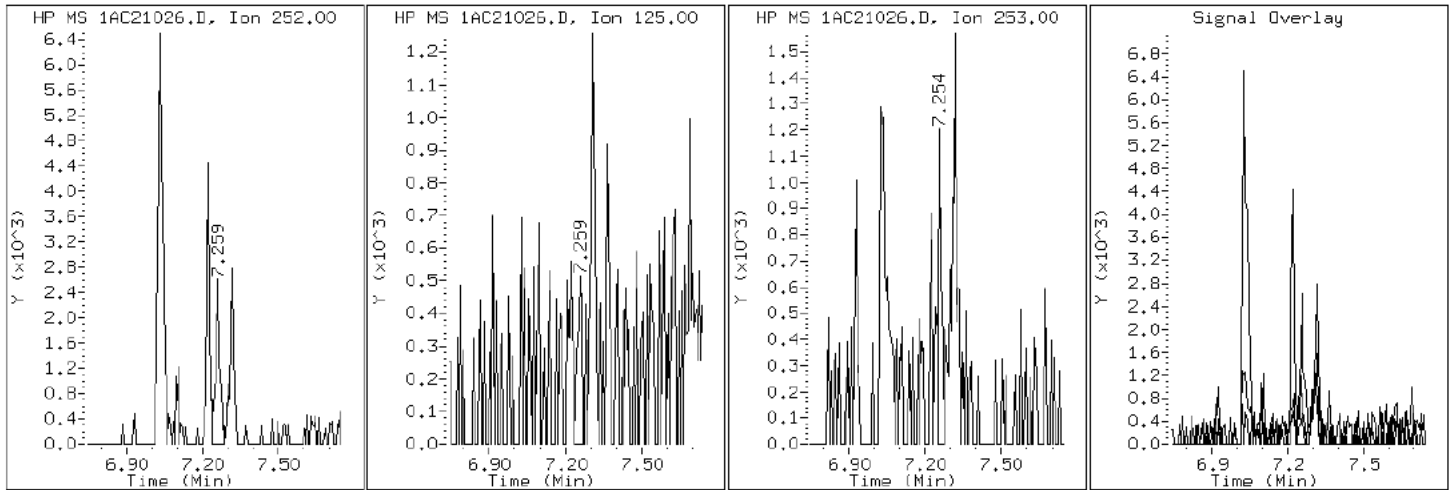
Client ID: CV0951A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-6-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC21026.D

Date: 21-MAR-2013 21:29

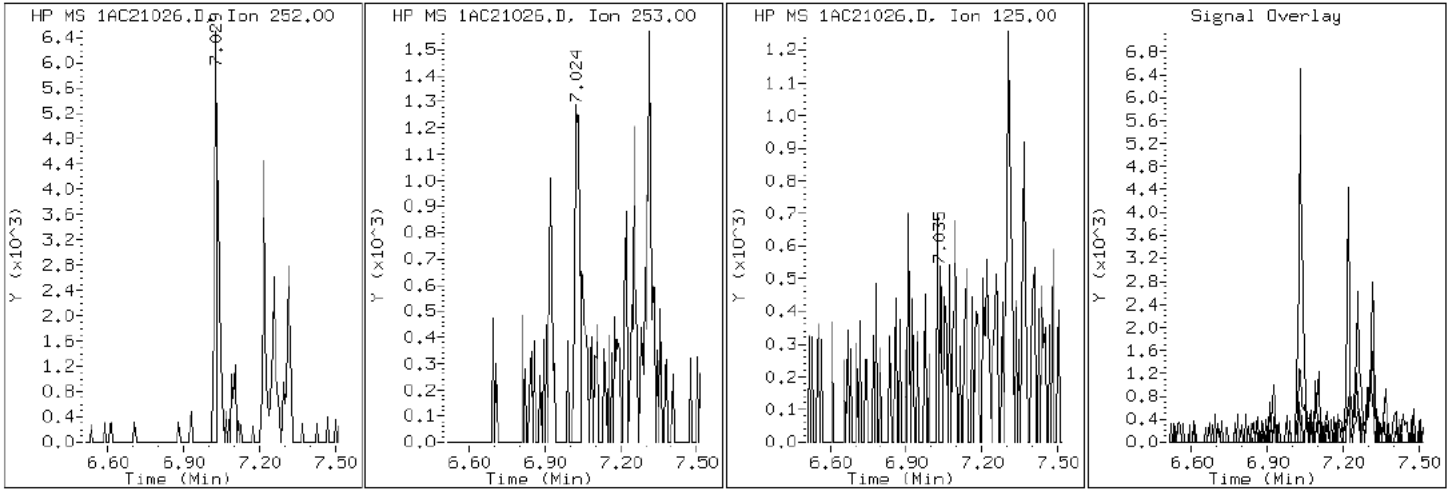
Client ID: CV0951A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-6-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC21026.D

Date: 21-MAR-2013 21:29

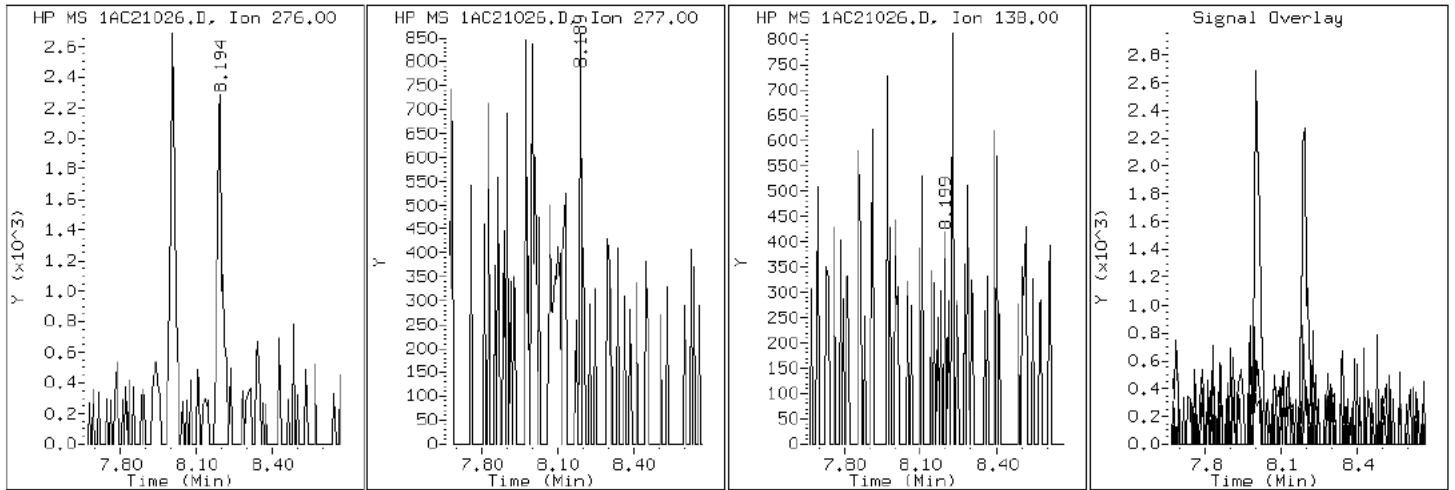
Client ID: CV0951A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-6-a

Operator: SCC

26 Benzo(g,h,i)perylene





Data File: 1AC21026.D

Date: 21-MAR-2013 21:29

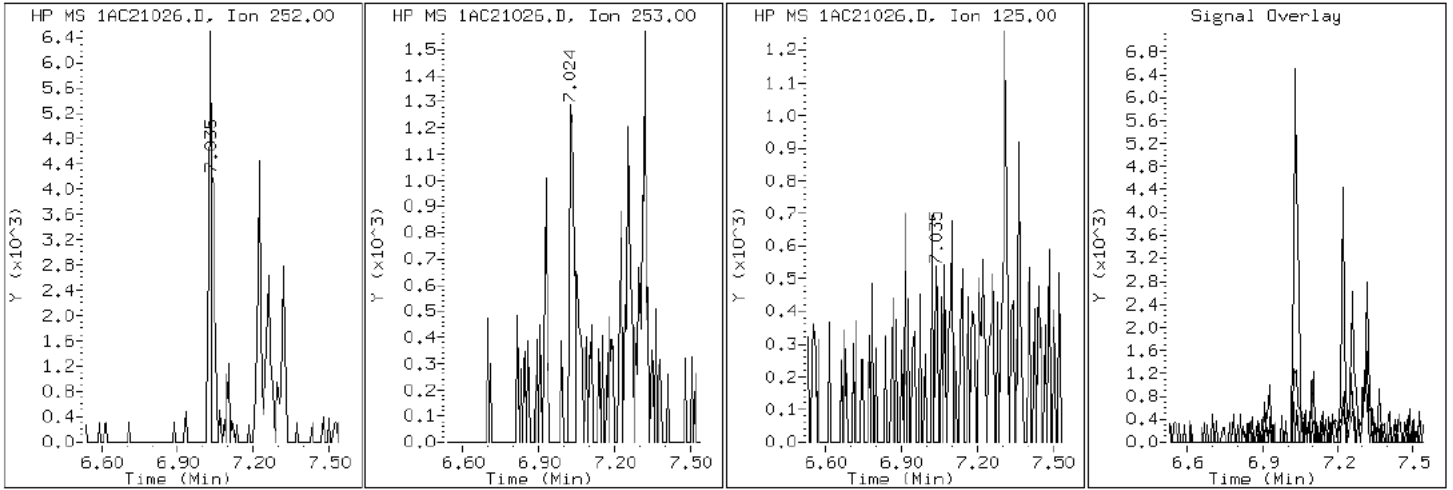
Client ID: CV0951A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-6-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC21026.D

Date: 21-MAR-2013 21:29

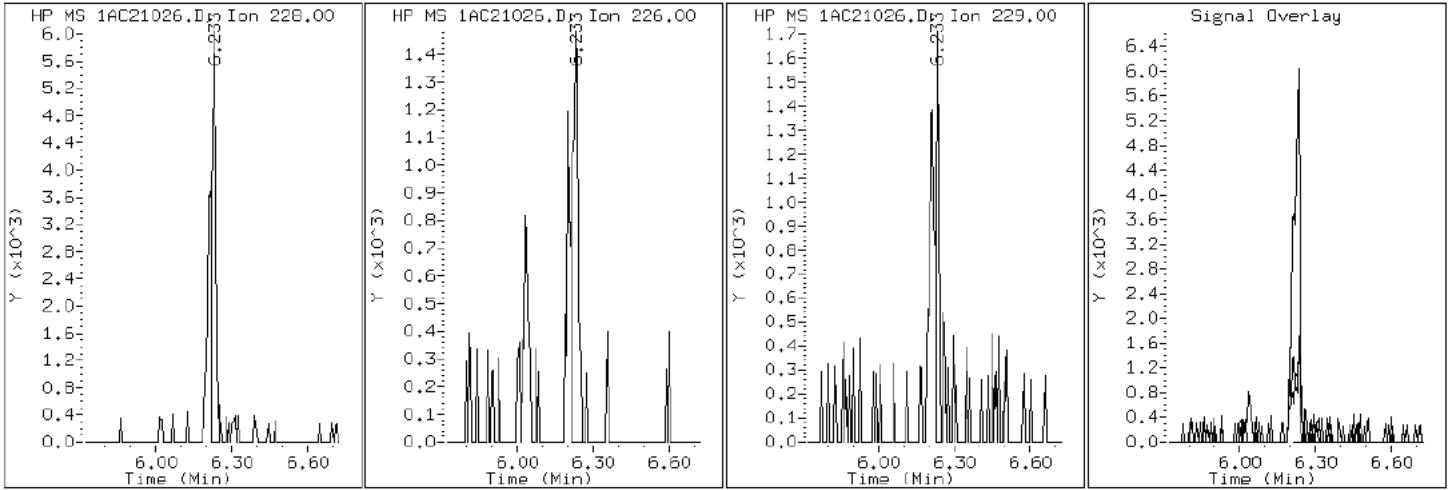
Client ID: CV0951A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-6-a

Operator: SCC

19 Chrysene



Data File: 1AC21026.D

Date: 21-MAR-2013 21:29

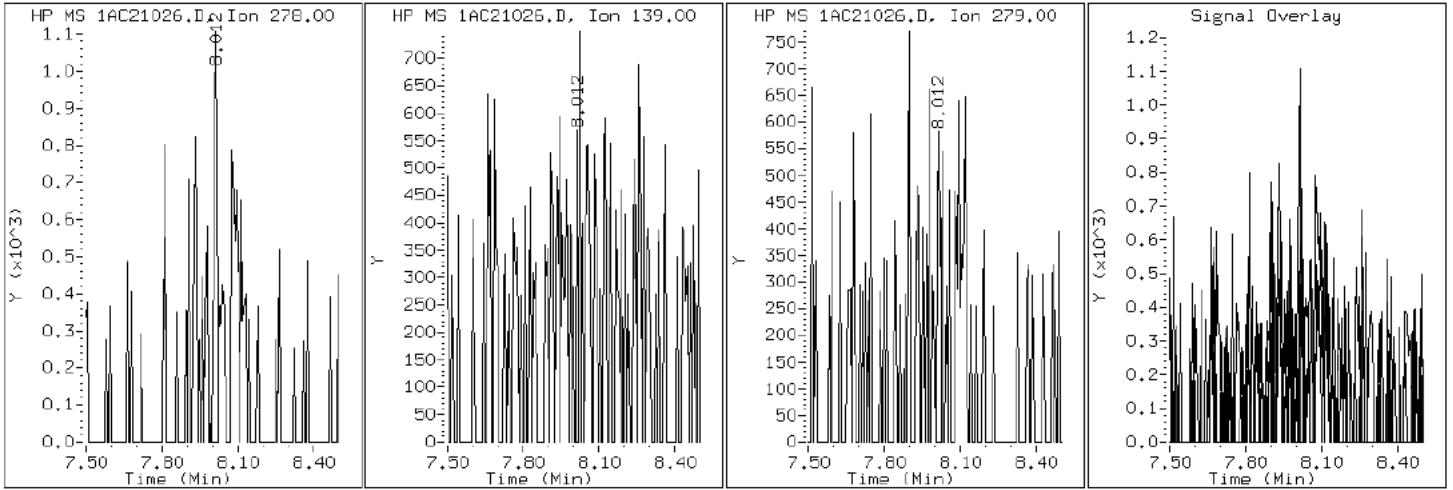
Client ID: CV0951A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-6-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC21026.D

Date: 21-MAR-2013 21:29

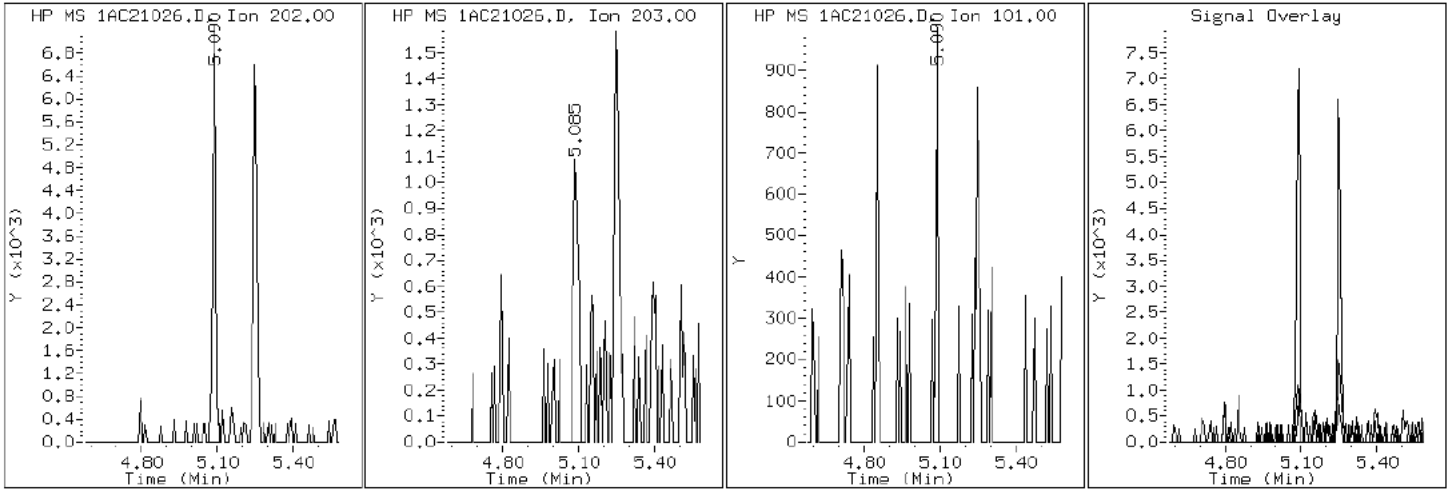
Client ID: CV0951A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-6-a

Operator: SCC

15 Fluoranthene



Data File: 1AC21026.D

Date: 21-MAR-2013 21:29

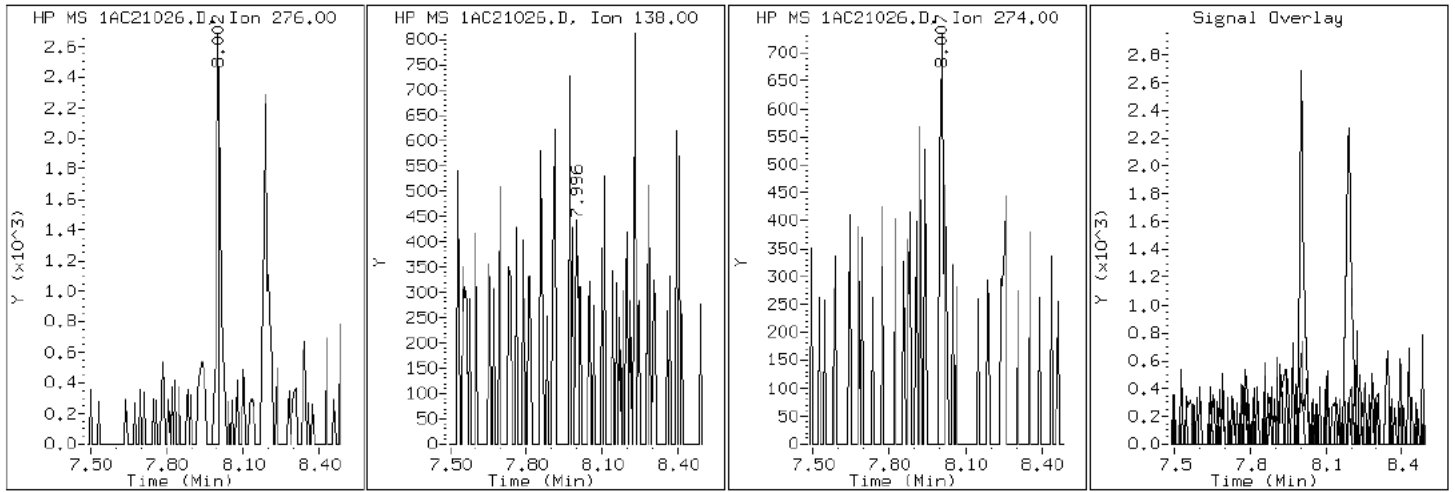
Client ID: CV0951A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-6-a

Operator: SCC

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



Data File: 1AC21026.D

Date: 21-MAR-2013 21:29

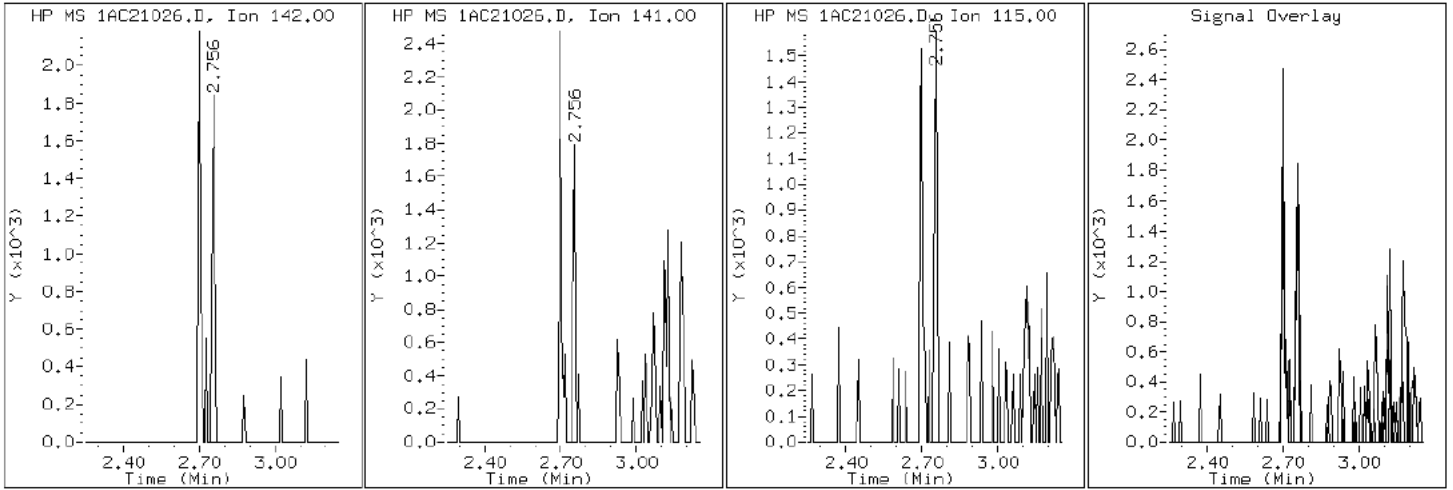
Client ID: CV0951A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-6-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC21026.D

Date: 21-MAR-2013 21:29

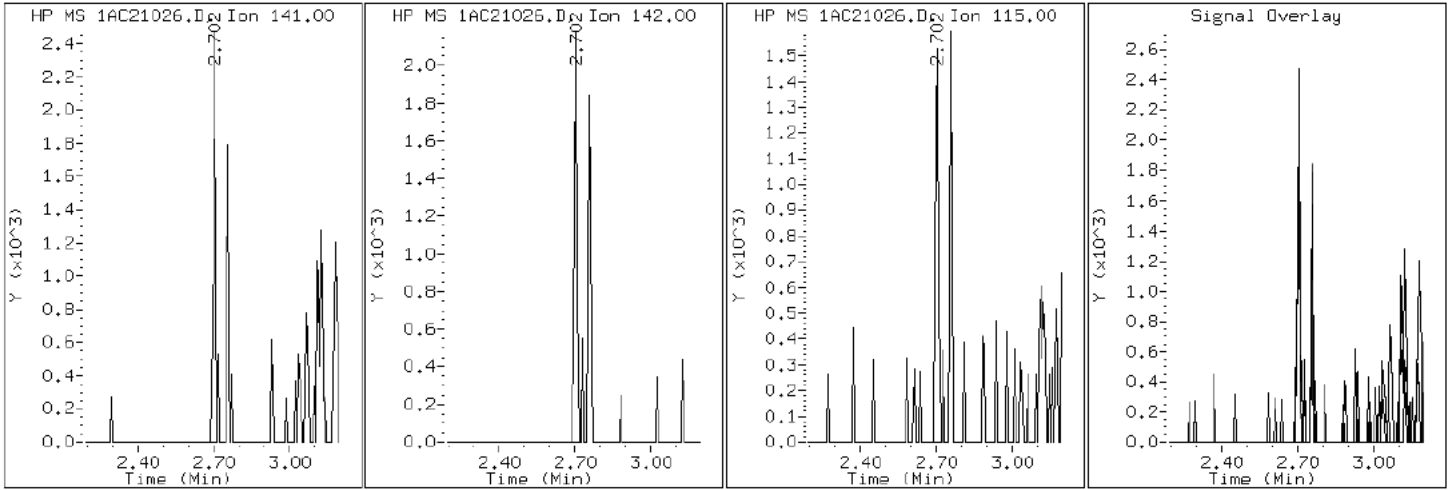
Client ID: CV0951A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-6-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC21026.D

Date: 21-MAR-2013 21:29

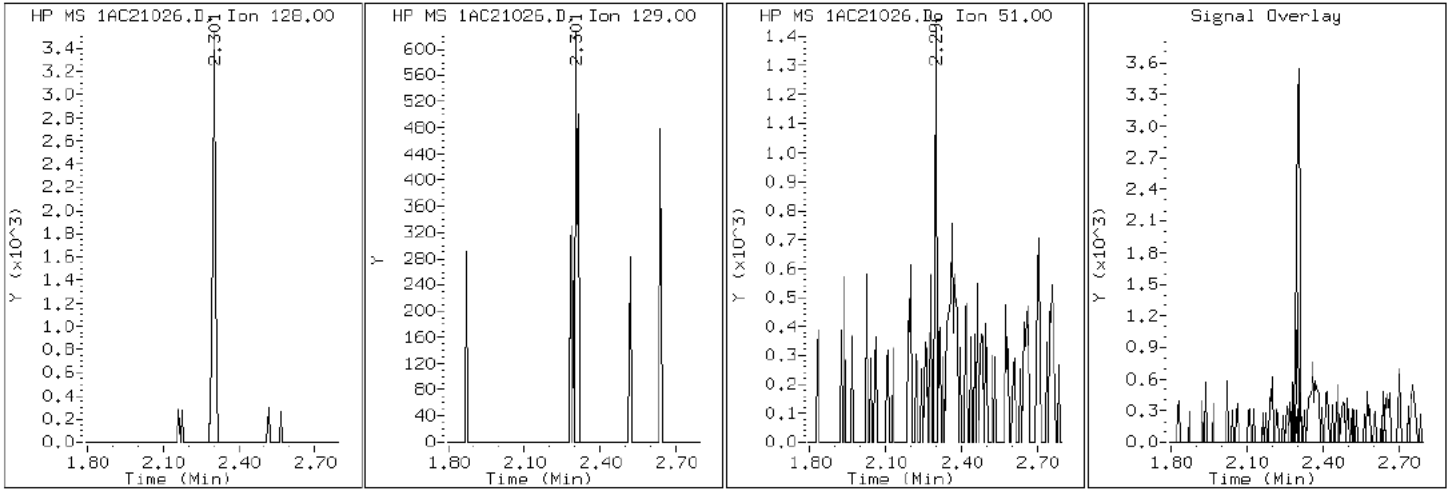
Client ID: CV0951A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-6-a

Operator: SCC

2 Naphthalene





Data File: 1AC21026.D

Date: 21-MAR-2013 21:29

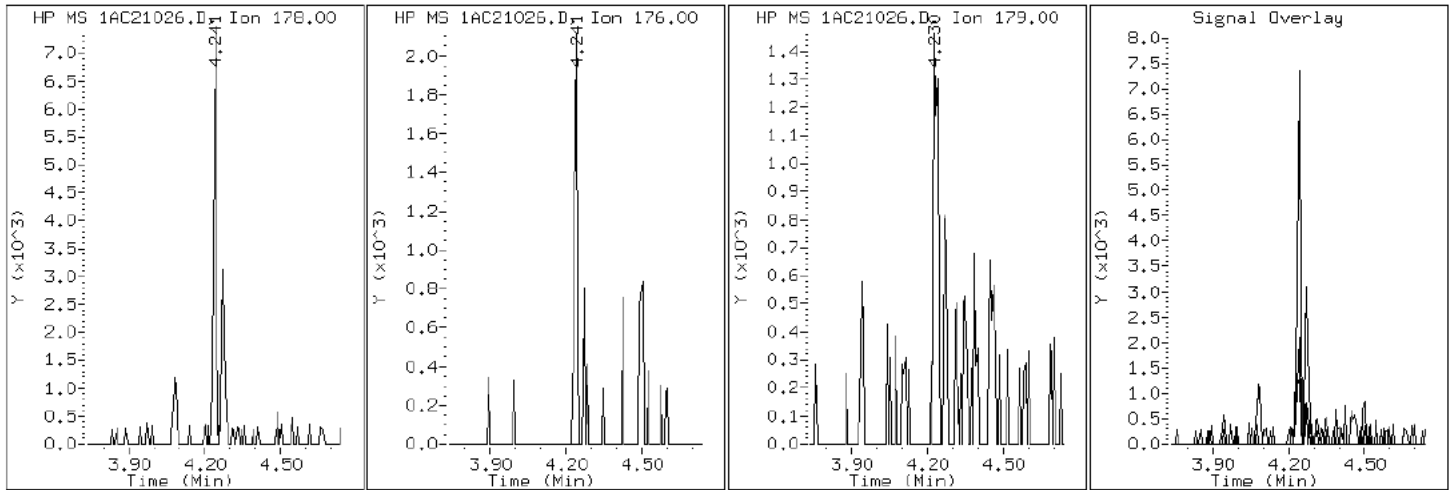
Client ID: CV0951A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-6-a

Operator: SCC

11 Phenanthrene



Data File: 1AC21026.D

Date: 21-MAR-2013 21:29

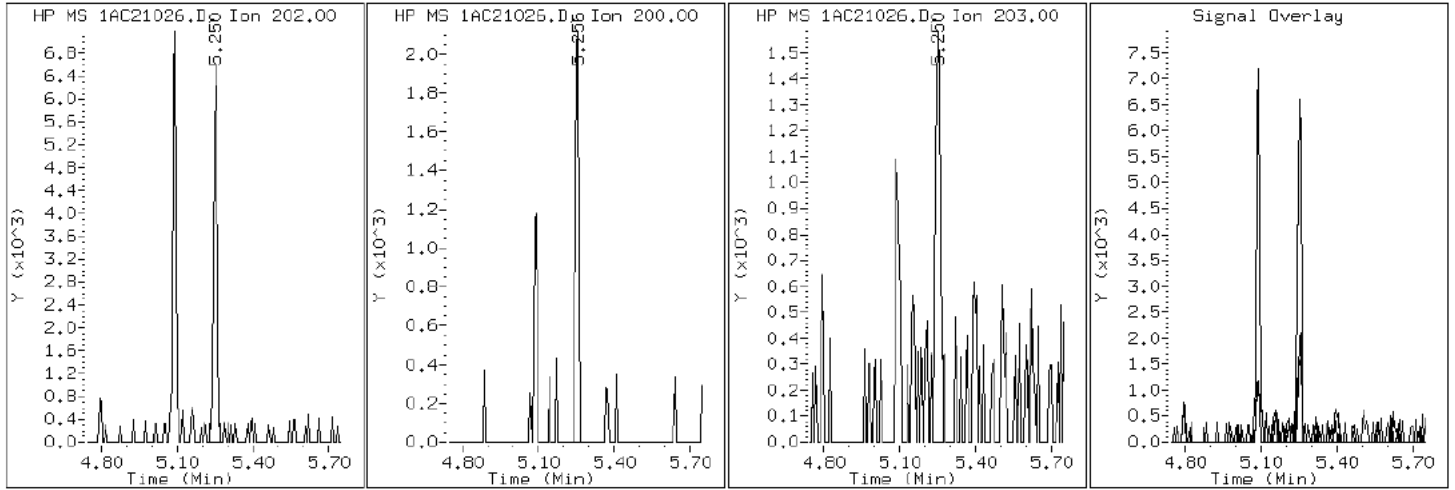
Client ID: CV0951A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-6-a

Operator: SCC

16 Pyrene

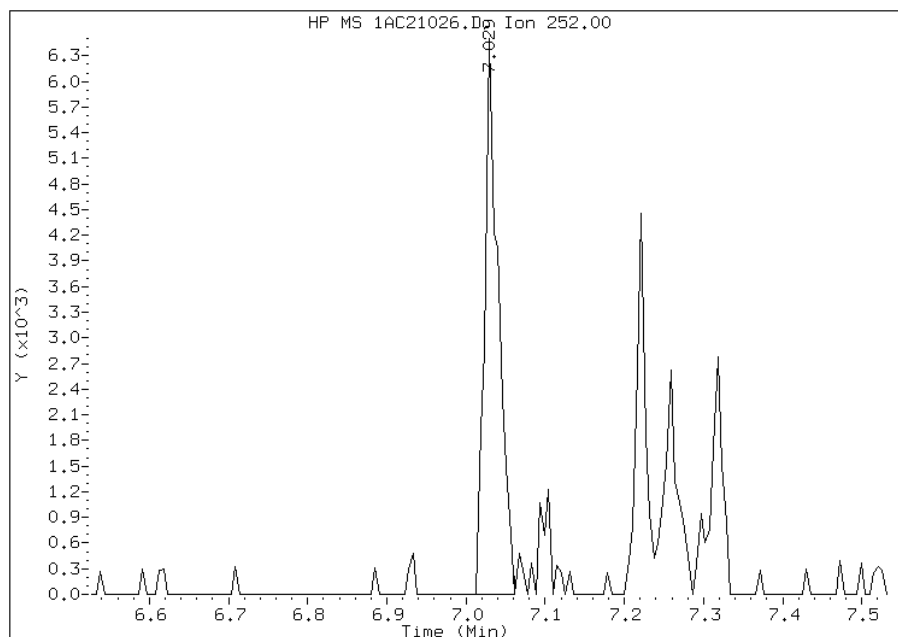


# Manual Integration Report

Data File: 1AC21026.D  
Inj. Date and Time: 21-MAR-2013 21:29  
Instrument ID: BSMA5973.i  
Client ID: CV0951A-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 03/26/2013

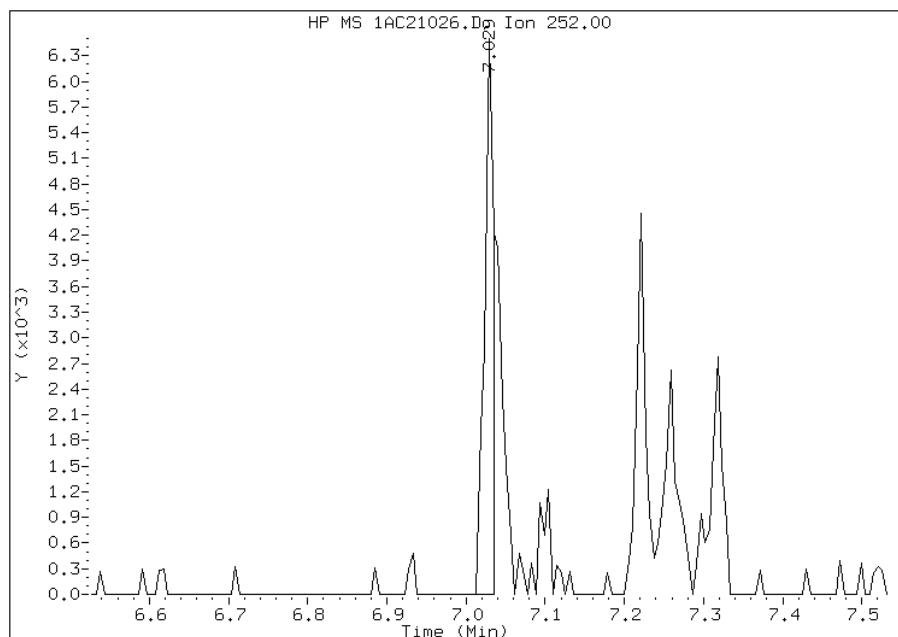
## Processing Integration Results

RT: 7.03  
Response: 7716  
Amount: 2  
Conc: 698



## Manual Integration Results

RT: 7.03  
Response: 4971  
Amount: 2  
Conc: 618



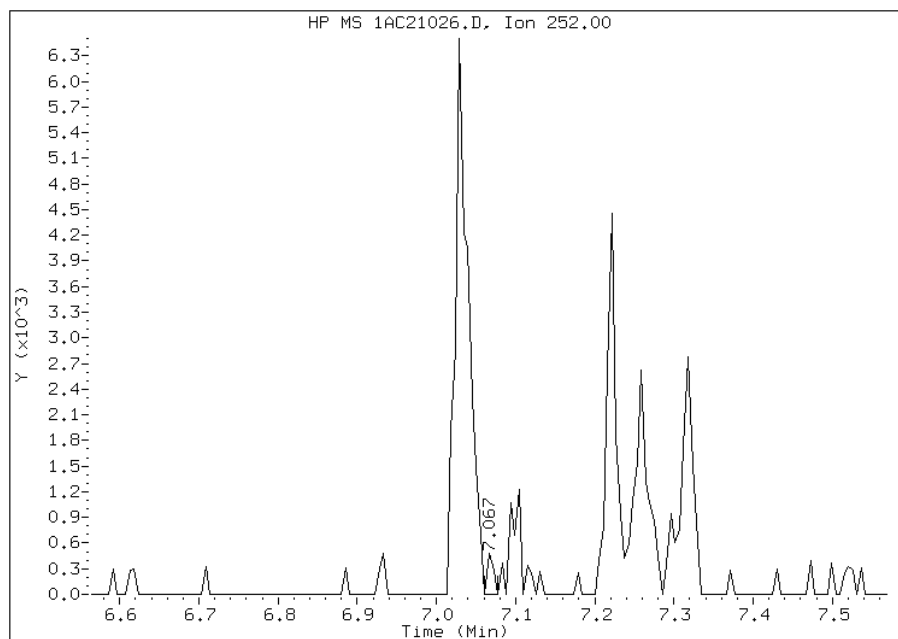
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:41  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AC21026.D  
Inj. Date and Time: 21-MAR-2013 21:29  
Instrument ID: BSMA5973.i  
Client ID: CV0951A-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 03/26/2013

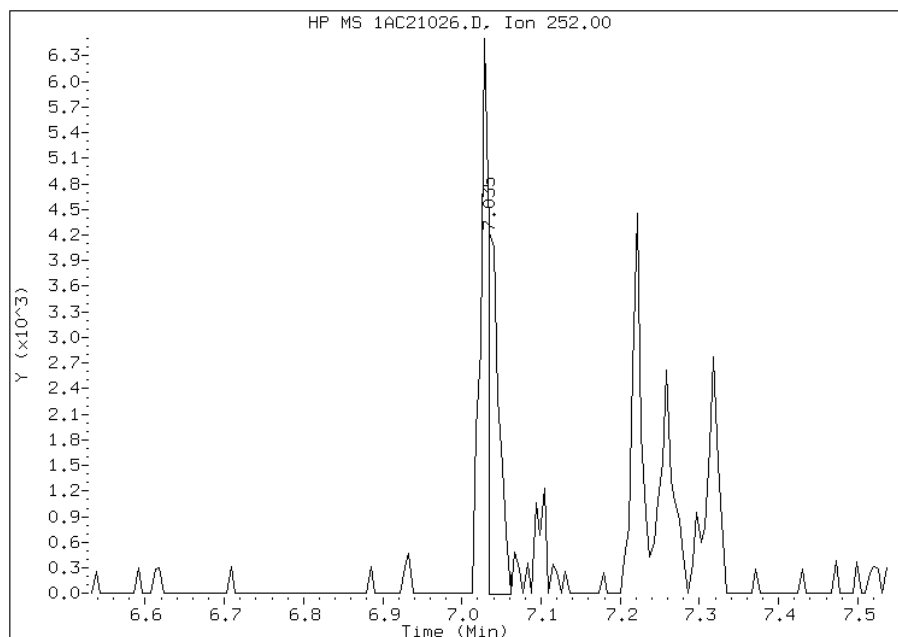
## Processing Integration Results

RT: 7.07  
Response: 246  
Amount: 0  
Conc: 7



## Manual Integration Results

RT: 7.03  
Response: 4118  
Amount: 0  
Conc: 122



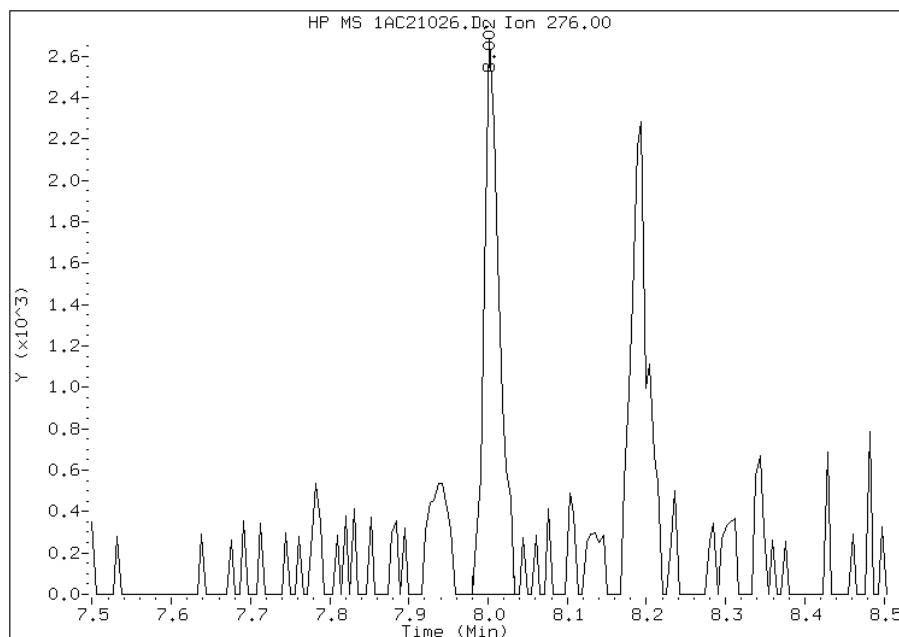
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:41  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AC21026.D  
Inj. Date and Time: 21-MAR-2013 21:29  
Instrument ID: BSMA5973.i  
Client ID: CV0951A-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/26/2013

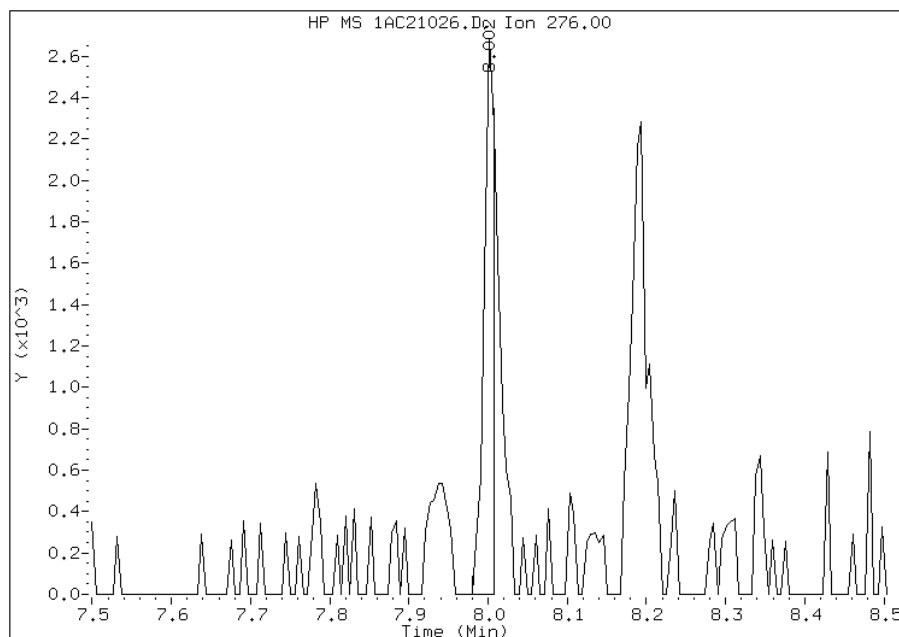
## Processing Integration Results

RT: 8.00  
Response: 3498  
Amount: 0  
Conc: 132



## Manual Integration Results

RT: 8.00  
Response: 2340  
Amount: 0  
Conc: 88



Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:41  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: CV0618A-CS Lab Sample ID: 680-88420-7  
 Matrix: Solid Lab File ID: 1AC21027.D  
 Analysis Method: 8270C LL Date Collected: 03/14/2013 10:45  
 Extract. Method: 3546 Date Extracted: 03/21/2013 08:38  
 Sample wt/vol: 15.49(g) Date Analyzed: 03/21/2013 21:45  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 31.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135630 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	53	J	140	28
208-96-8	Acenaphthylene	66		56	7.0
120-12-7	Anthracene	77		12	5.9
56-55-3	Benzo[a]anthracene	300		11	5.5
50-32-8	Benzo[a]pyrene	190		15	7.3
205-99-2	Benzo[b]fluoranthene	420		17	8.6
191-24-2	Benzo[g,h,i]perylene	170		28	6.2
207-08-9	Benzo[k]fluoranthene	110		11	5.1
218-01-9	Chrysene	380		13	6.3
53-70-3	Dibenz(a,h)anthracene	65		28	5.8
206-44-0	Fluoranthene	380		28	5.6
86-73-7	Fluorene	46		28	5.8
193-39-5	Indeno[1,2,3-cd]pyrene	150		28	10
90-12-0	1-Methylnaphthalene	460		56	6.2
91-57-6	2-Methylnaphthalene	580		56	10
91-20-3	Naphthalene	380		56	6.2
85-01-8	Phenanthrene	420		11	5.5
129-00-0	Pyrene	330		28	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	42		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\1AC21027.D  
 Lab Smp Id: 680-88420-A-7-A Client Smp ID: CV0618A-CS  
 Inj Date : 21-MAR-2013 21:45  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-88420-a-7-a  
 Misc Info : 680-88420-A-7-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\a-bFASTPAHi-m.m  
 Meth Date : 21-Mar-2013 17:07 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D  
 Als bottle: 22  
 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	15.490	Weight Extracted
M	31.051	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.287	2.282	(1.000)	488885	40.0000	
* 6 Acenaphthene-d10	164		3.308	3.302	(1.000)	385032	40.0000	
* 10 Phenanthrene-d10	188		4.232	4.221	(1.000)	537850	40.0000	
\$ 14 o-Terphenyl	230		4.499	4.499	(1.063)	29186	4.22572	395.6590
* 18 Chrysene-d12	240		6.230	6.208	(1.000)	543836	40.0000	
* 23 Perylene-d12	264		7.330	7.292	(1.000)	764238	40.0000	
2 Naphthalene	128		2.298	2.292	(1.005)	45536	4.03156	377.4795
3 2-Methylnaphthalene	141		2.699	2.693	(1.180)	36503	6.14892	575.7303
4 1-Methylnaphthalene	142		2.752	2.752	(1.203)	31640	4.87159	456.1331
5 Acenaphthylene	152		3.222	3.216	(0.974)	7411	0.70734	66.2295
7 Acenaphthene	154		3.324	3.318	(1.005)	1142	0.56158	52.5815(Q)
9 Fluorene	166		3.633	3.628	(1.099)	2654	0.48753	45.6484(Q)
11 Phenanthrene	178		4.242	4.237	(1.003)	61744	4.52946	424.0983
12 Anthracene	178		4.275	4.269	(1.010)	10863	0.82185	76.9512

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.440	4.424	(1.049)	5825	0.50281	47.0783
15 Fluoranthene	202	5.092	5.081	(1.203)	54410	4.03791	378.0739
16 Pyrene	202	5.257	5.246	(0.844)	54228	3.47771	325.6218
17 Benzo(a)anthracene	228	6.219	6.197	(0.998)	47892	3.20519	300.1052
19 Chrysene	228	6.240	6.224	(1.002)	56429	4.00616	375.1015
20 Benzo(b)fluoranthene	252	7.042	7.015	(0.961)	69378	4.49722	421.0801(M)
21 Benzo(k)fluoranthene	252	7.052	7.036	(0.962)	24124	1.17024	109.5705(QM)
22 Benzo(a)pyrene	252	7.271	7.244	(0.992)	35733	1.99235	186.5461
24 Indeno(1,2,3-cd)pyrene	276	8.025	7.987	(1.095)	25070	1.54917	145.0501(M)
25 Dibenzo(a,h)anthracene	278	8.035	7.998	(1.096)	11111	0.69276	64.8637
26 Benzo(g,h,i)perylene	276	8.212	8.169	(1.120)	30446	1.86903	174.9994

QC Flag Legend

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



Data File: 1AC21027.D

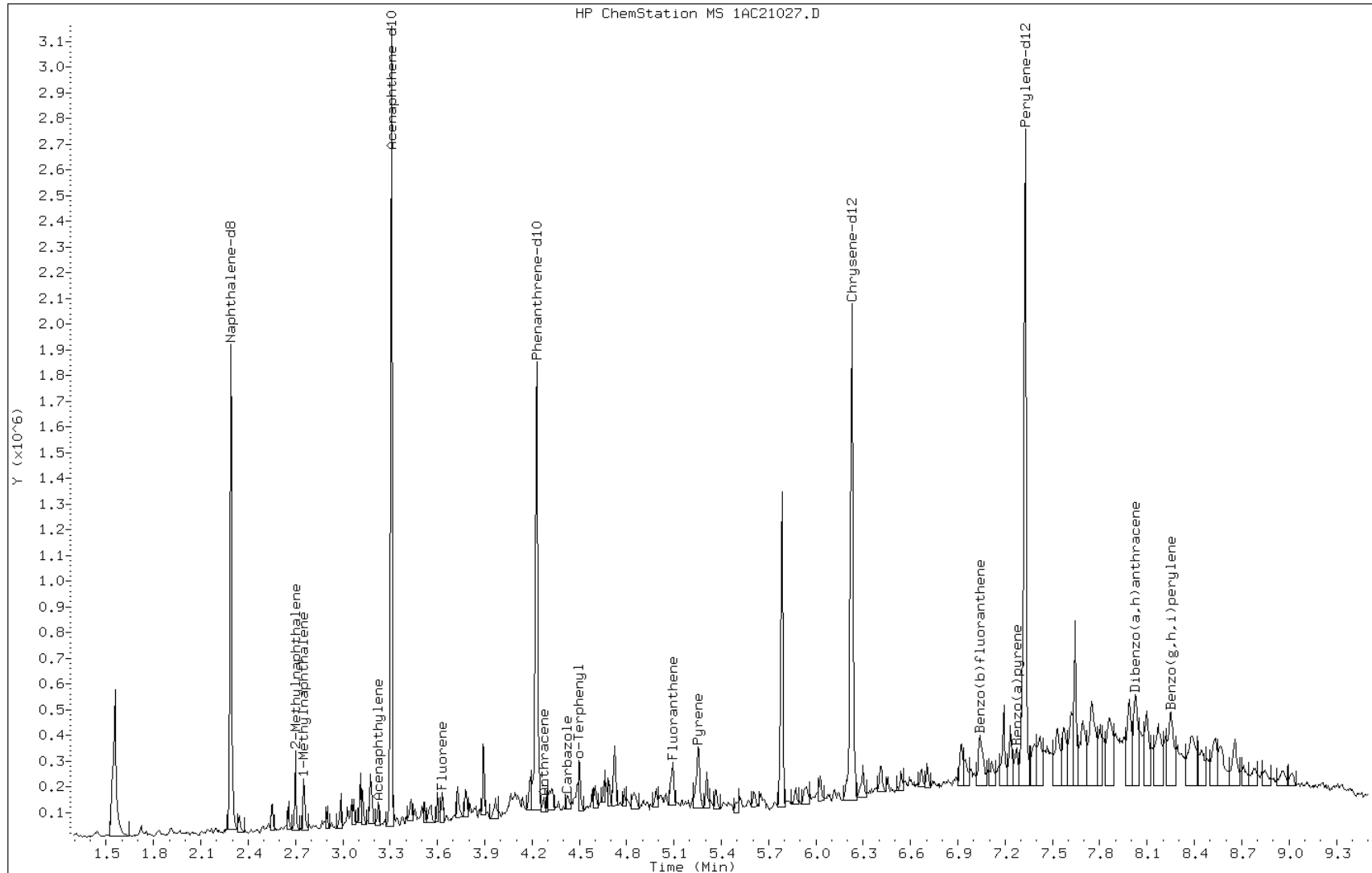
Date: 21-MAR-2013 21:45

Client ID: CV0618A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-7-a

Operator: SCC



Data File: 1AC21027.D

Date: 21-MAR-2013 21:45

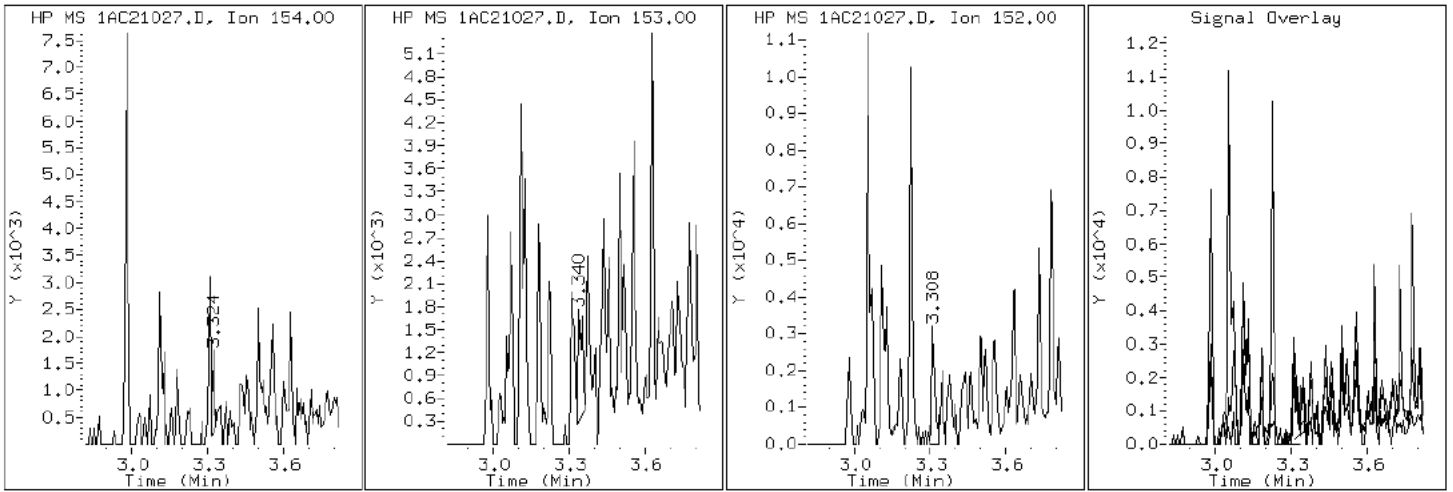
Client ID: CV0618A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-7-a

Operator: SCC

7 Acenaphthene



Data File: 1AC21027.D

Date: 21-MAR-2013 21:45

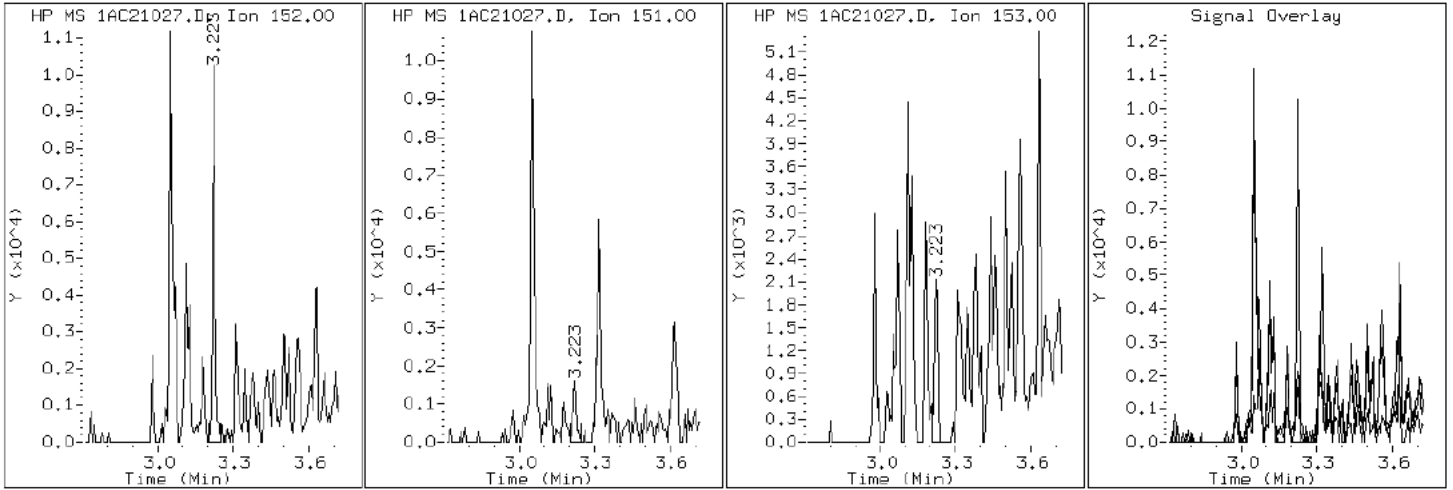
Client ID: CV0618A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-7-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC21027.D

Date: 21-MAR-2013 21:45

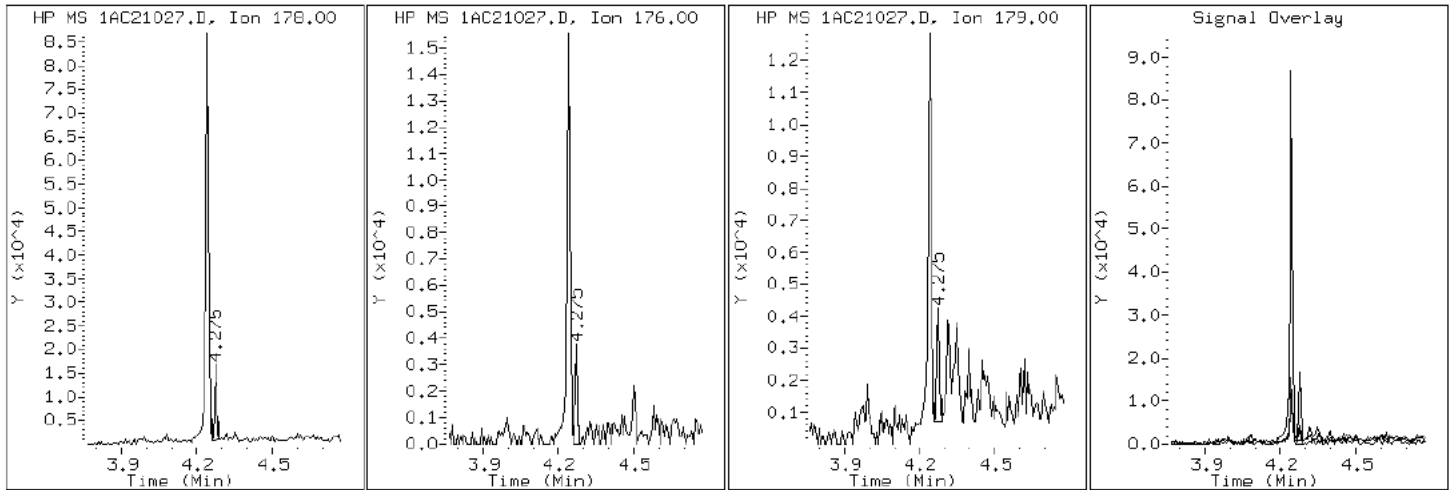
Client ID: CV0618A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-7-a

Operator: SCC

12 Anthracene



Data File: 1AC21027.D

Date: 21-MAR-2013 21:45

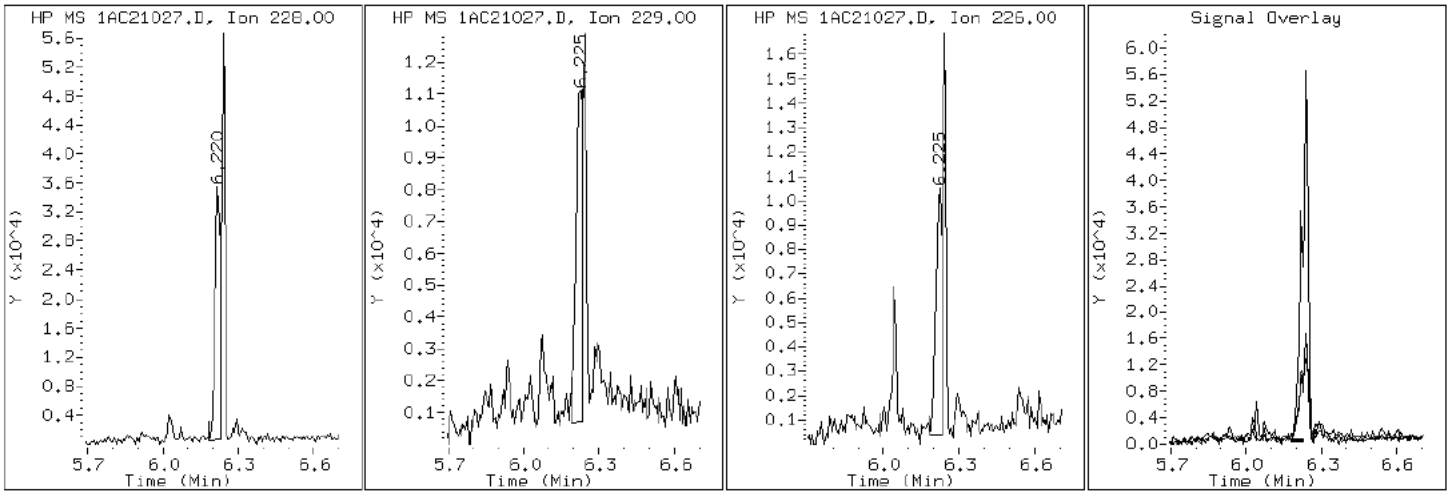
Client ID: CV0618A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-7-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC21027.D

Date: 21-MAR-2013 21:45

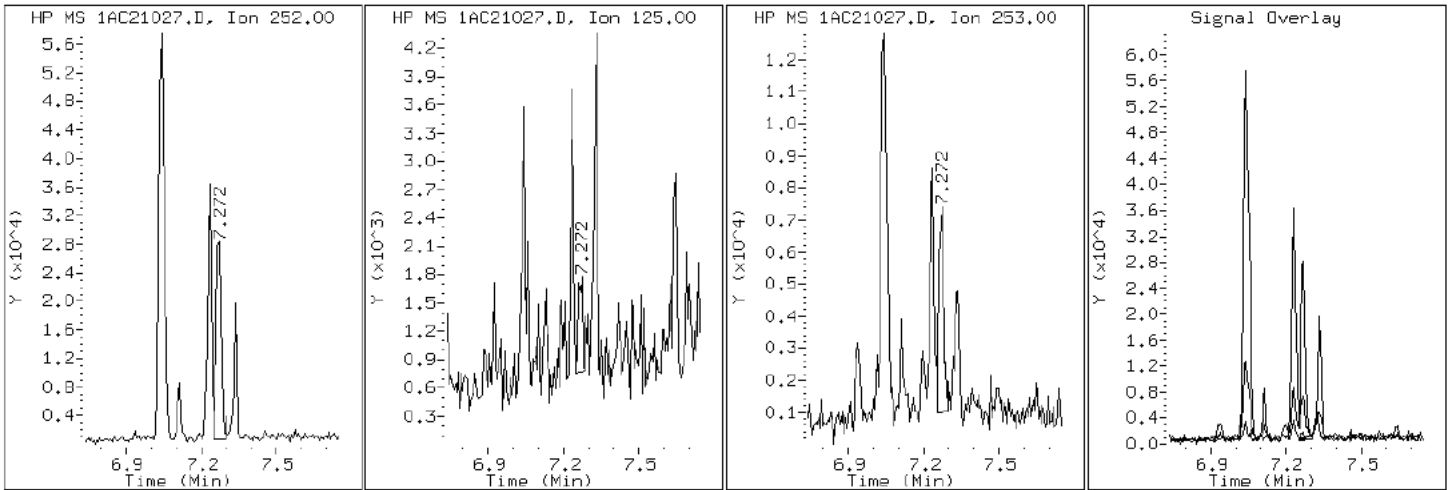
Client ID: CV0618A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-7-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC21027.D

Date: 21-MAR-2013 21:45

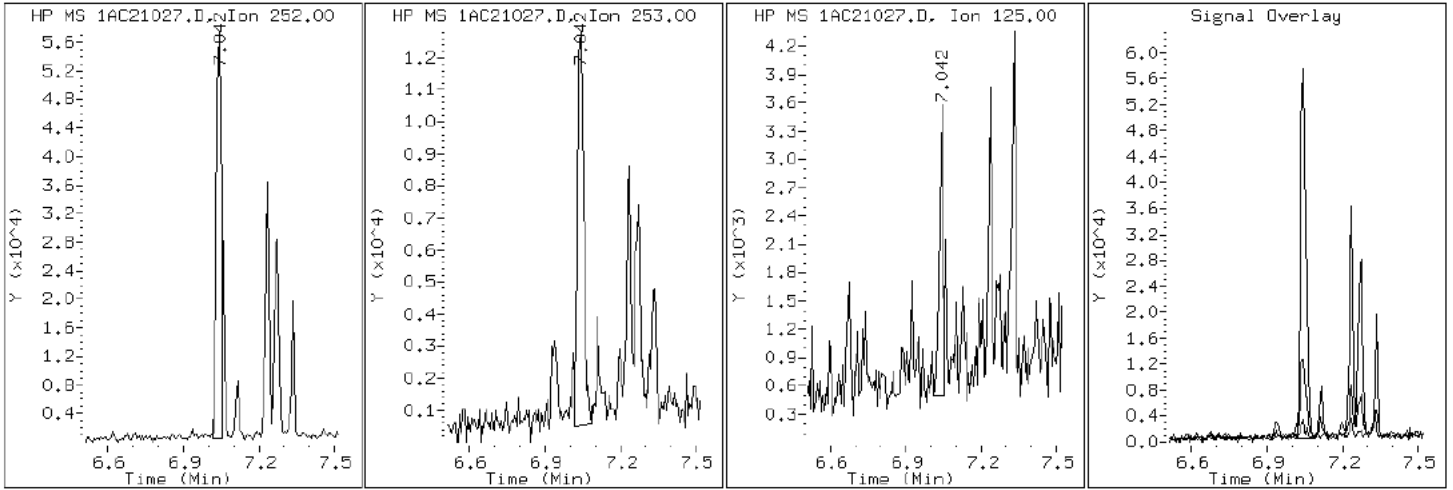
Client ID: CV0618A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-7-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC21027.D

Date: 21-MAR-2013 21:45

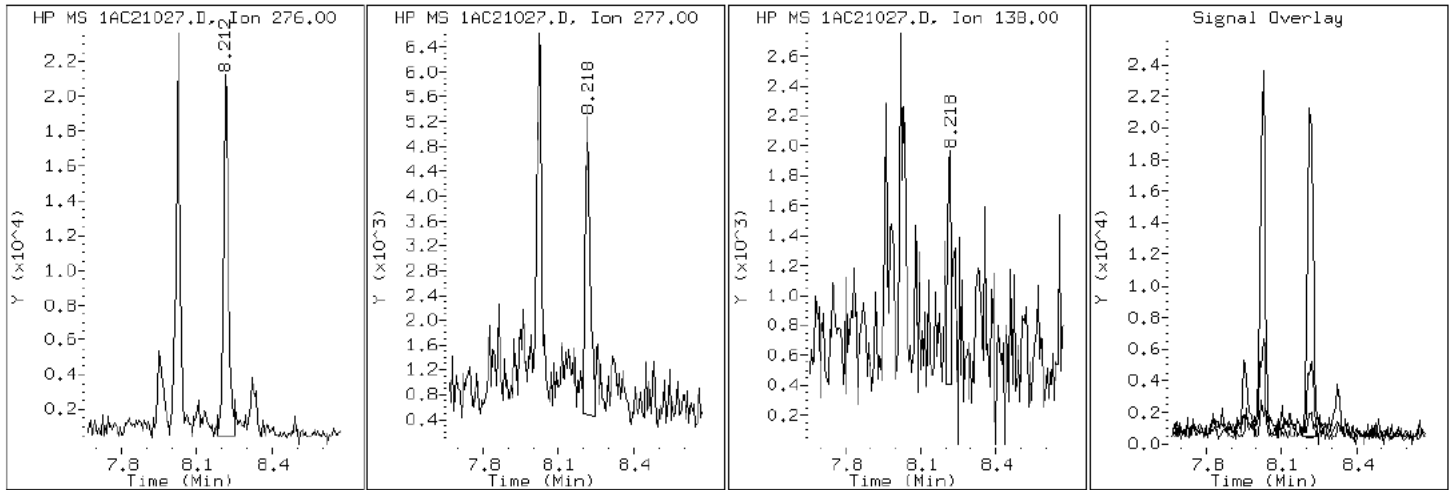
Client ID: CV0618A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-7-a

Operator: SCC

26 Benzo(g,h,i)perylene





Data File: 1AC21027.D

Date: 21-MAR-2013 21:45

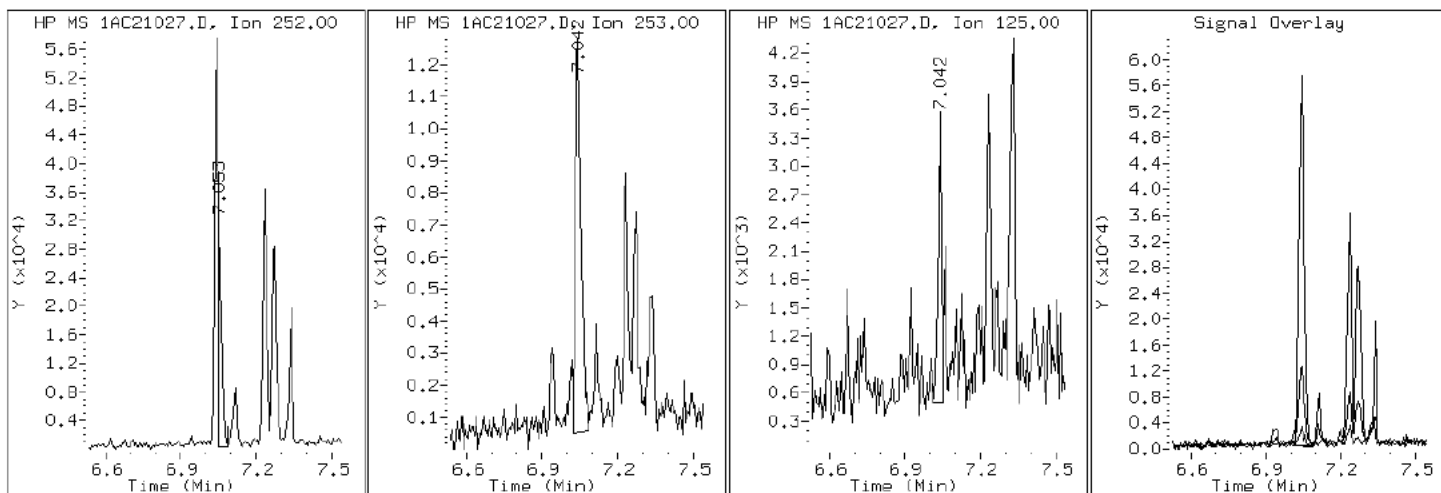
Client ID: CV0618A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-7-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC21027.D

Date: 21-MAR-2013 21:45

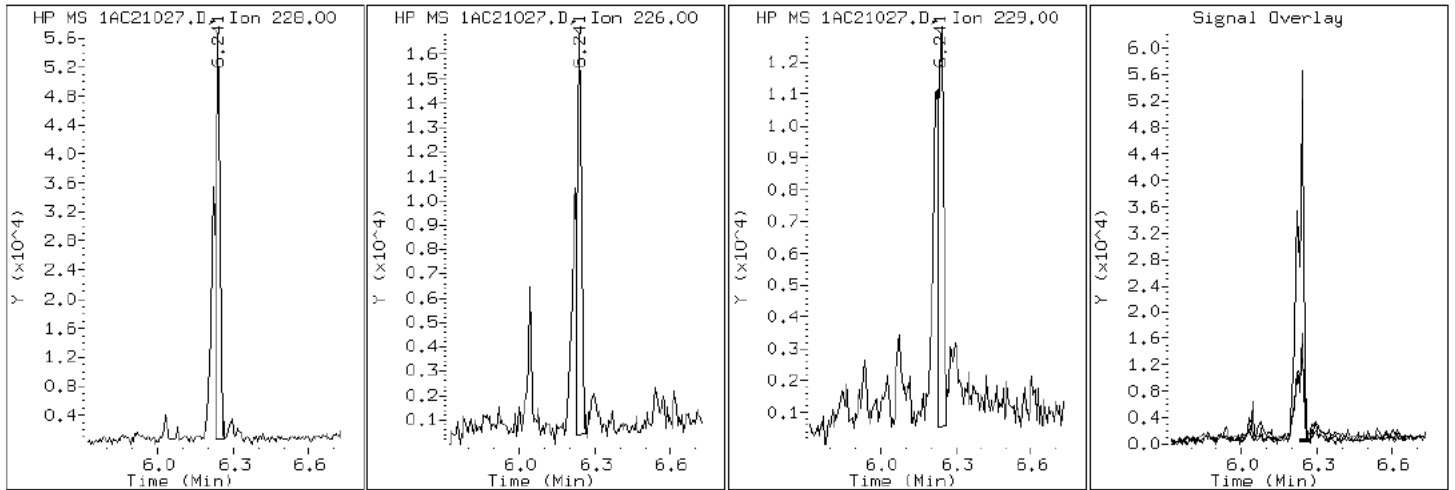
Client ID: CV0618A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-7-a

Operator: SCC

19 Chrysene



Data File: 1AC21027.D

Date: 21-MAR-2013 21:45

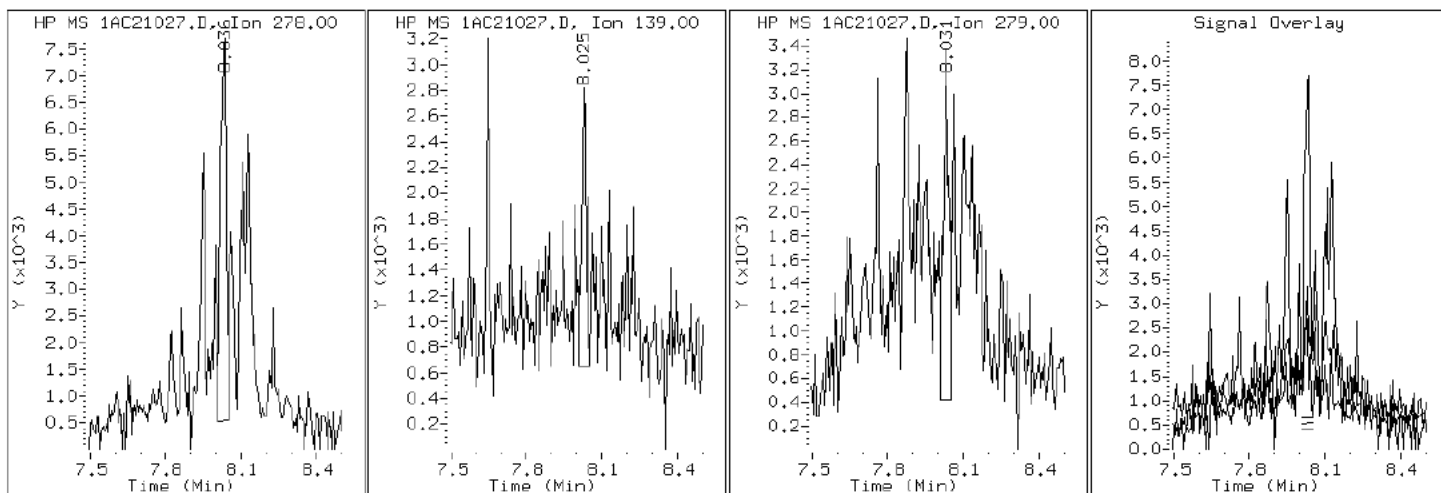
Client ID: CV0618A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-7-a

Operator: SCC

25 Dibenzo (a,h)anthracene



Data File: 1AC21027.D

Date: 21-MAR-2013 21:45

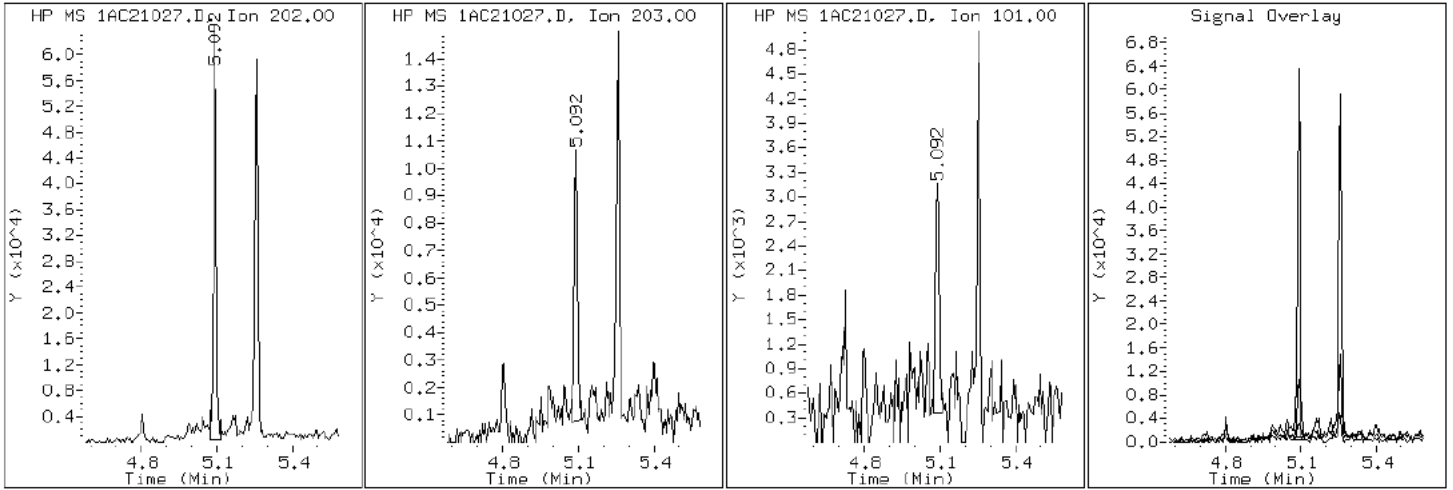
Client ID: CV0618A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-7-a

Operator: SCC

15 Fluoranthene



Data File: 1AC21027.D

Date: 21-MAR-2013 21:45

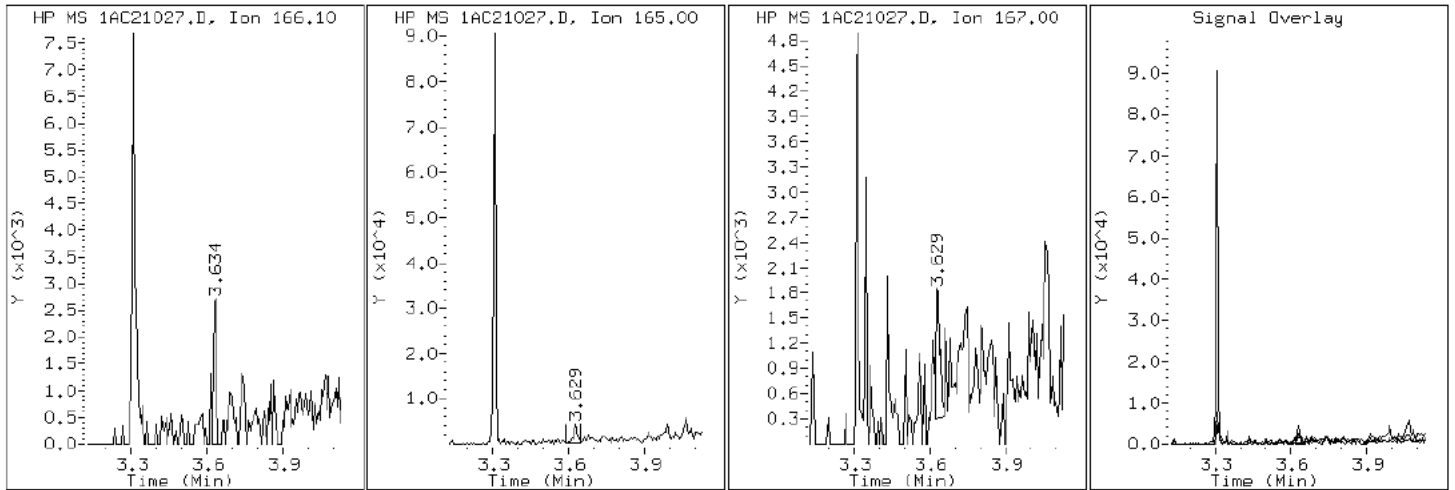
Client ID: CV0618A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-7-a

Operator: SCC

9 Fluorene



Data File: 1AC21027.D

Date: 21-MAR-2013 21:45

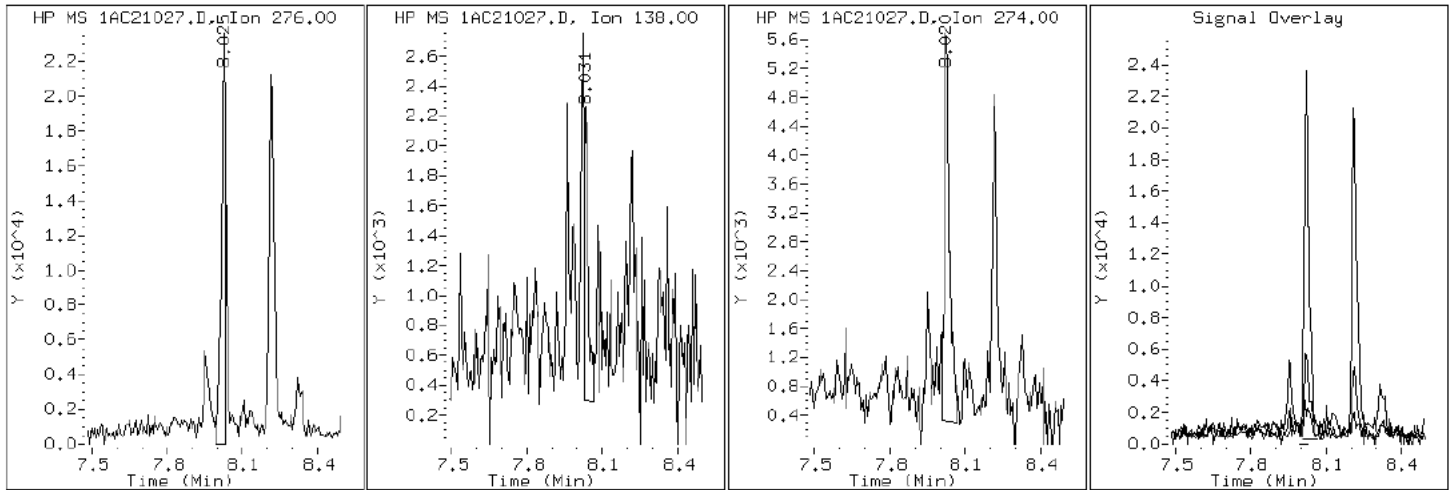
Client ID: CV0618A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-7-a

Operator: SCC

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



Data File: 1AC21027.D

Date: 21-MAR-2013 21:45

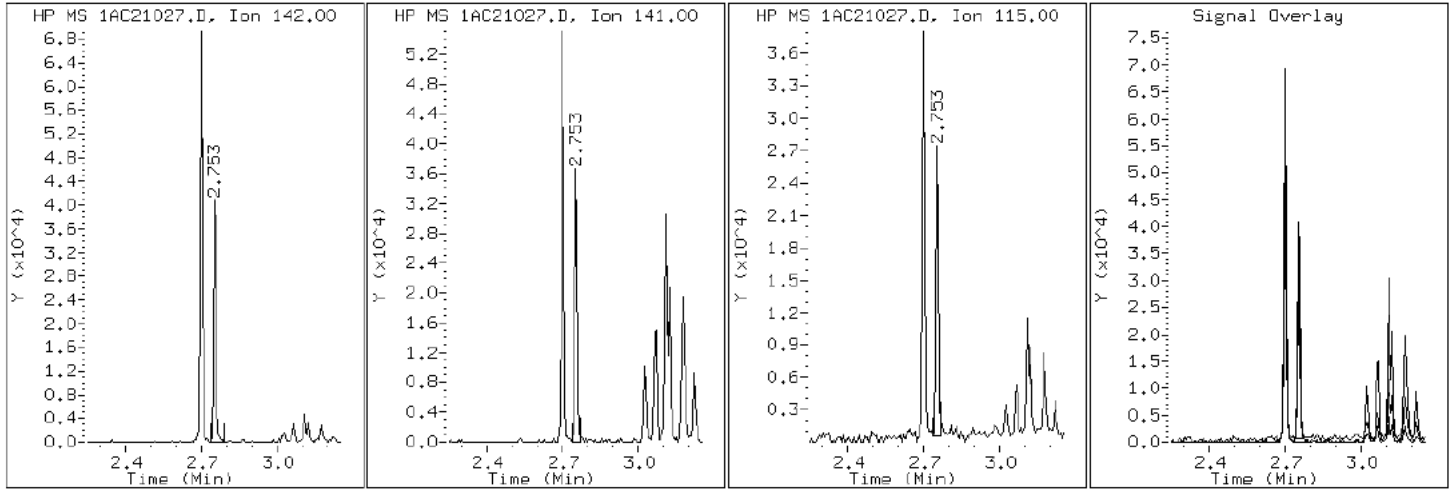
Client ID: CV0618A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-7-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC21027.D

Date: 21-MAR-2013 21:45

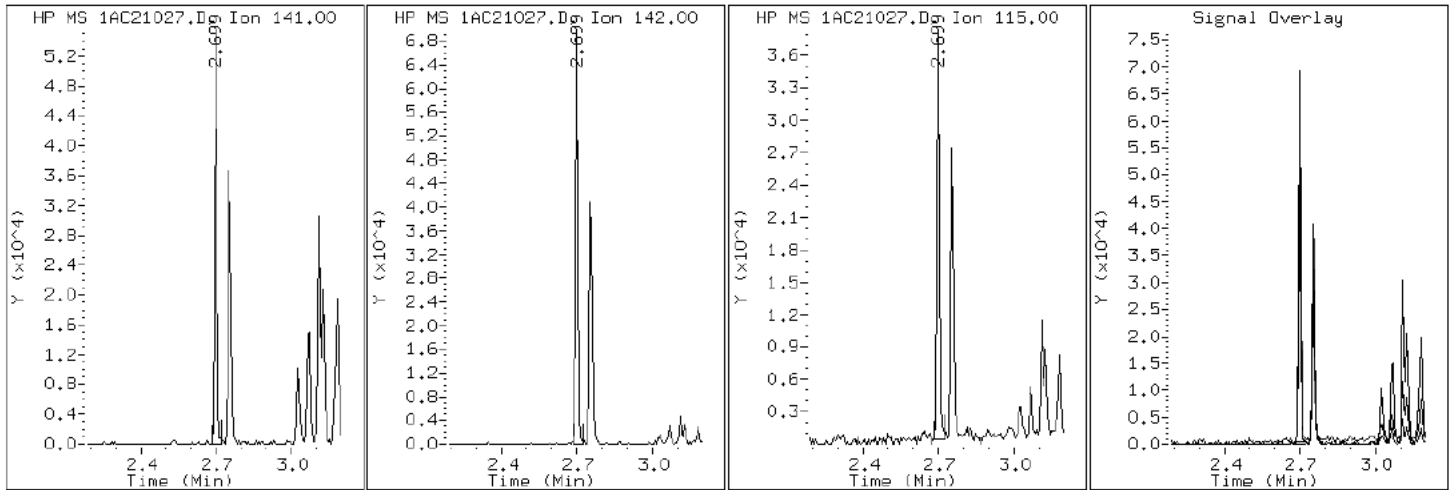
Client ID: CV0618A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-7-a

Operator: SCC

3 2-Methylnaphthalene





Data File: 1AC21027.D

Date: 21-MAR-2013 21:45

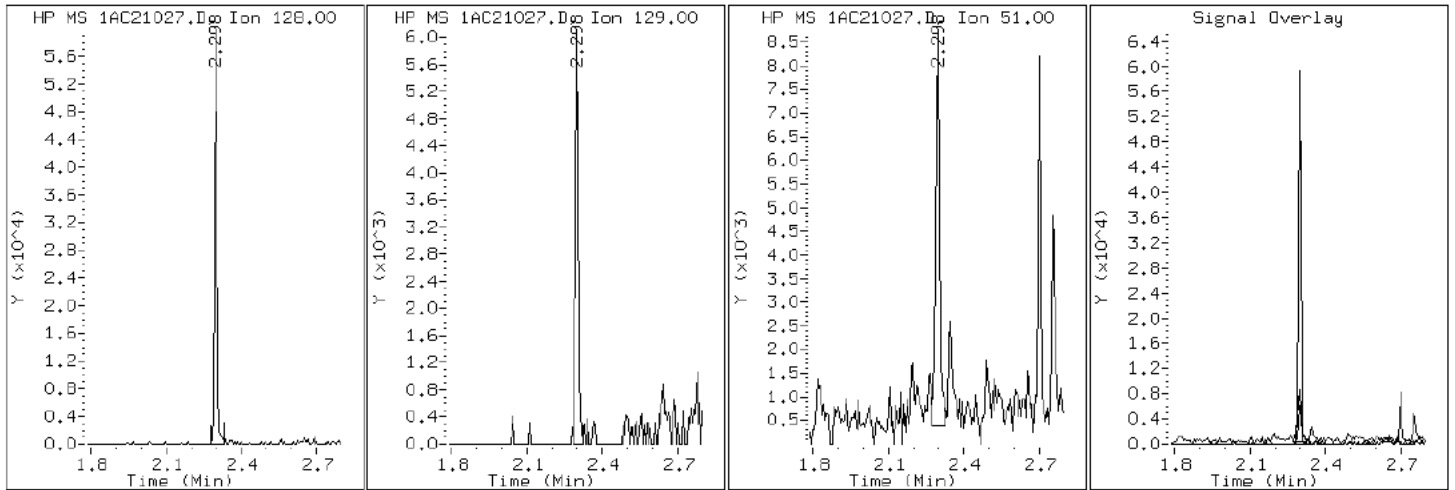
Client ID: CV0618A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-7-a

Operator: SCC

2 Naphthalene



Data File: 1AC21027.D

Date: 21-MAR-2013 21:45

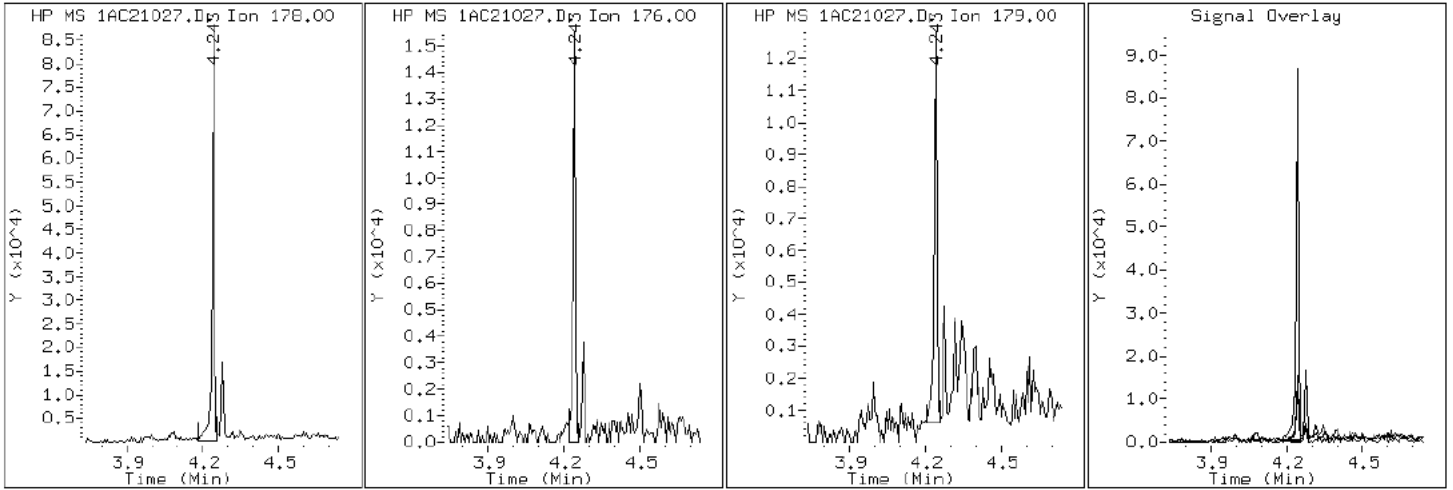
Client ID: CV0618A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-7-a

Operator: SCC

11 Phenanthrene



Data File: 1AC21027.D

Date: 21-MAR-2013 21:45

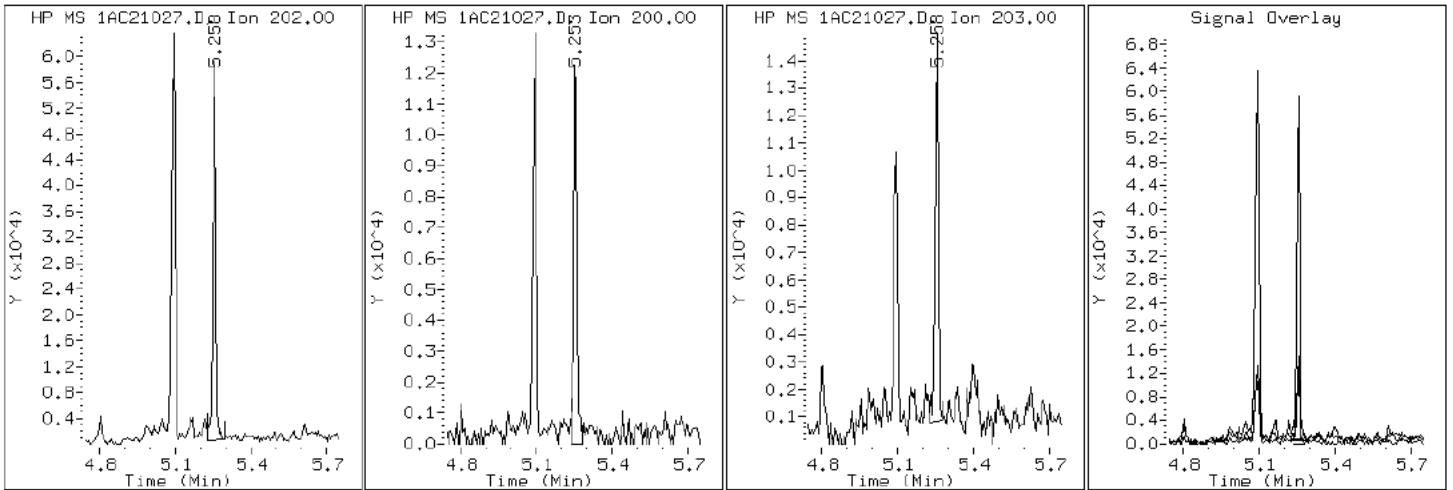
Client ID: CV0618A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-7-a

Operator: SCC

16 Pyrene

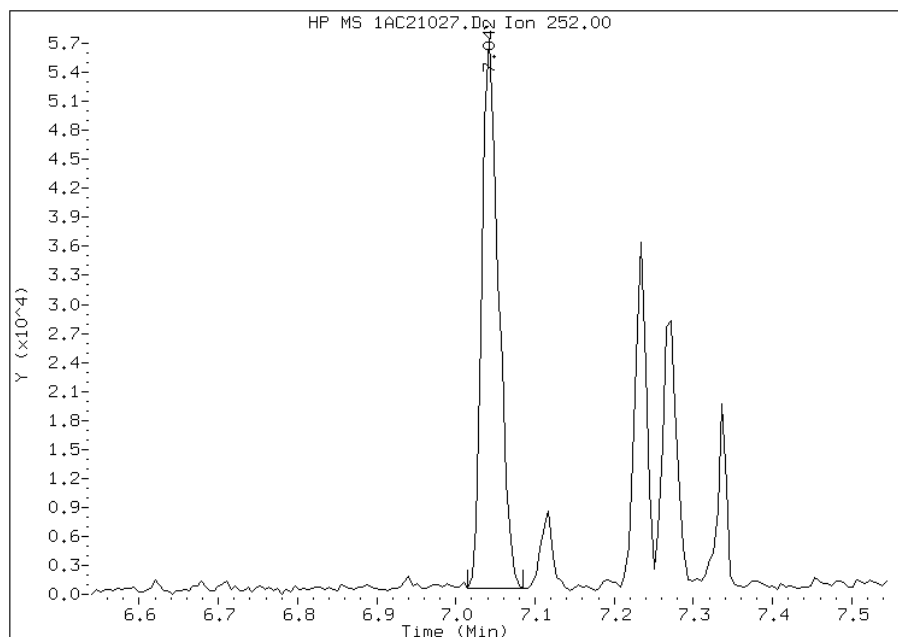


# Manual Integration Report

Data File: 1AC21027.D  
Inj. Date and Time: 21-MAR-2013 21:45  
Instrument ID: BSMA5973.i  
Client ID: CV0618A-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 03/26/2013

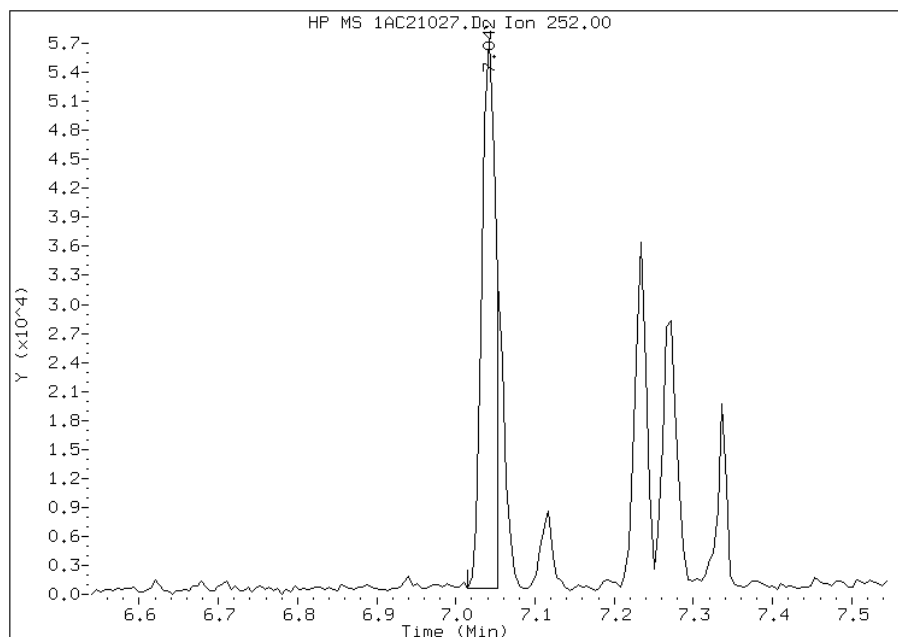
## Processing Integration Results

RT: 7.04  
Response: 82649  
Amount: 5  
Conc: 480



## Manual Integration Results

RT: 7.04  
Response: 69378  
Amount: 4  
Conc: 421



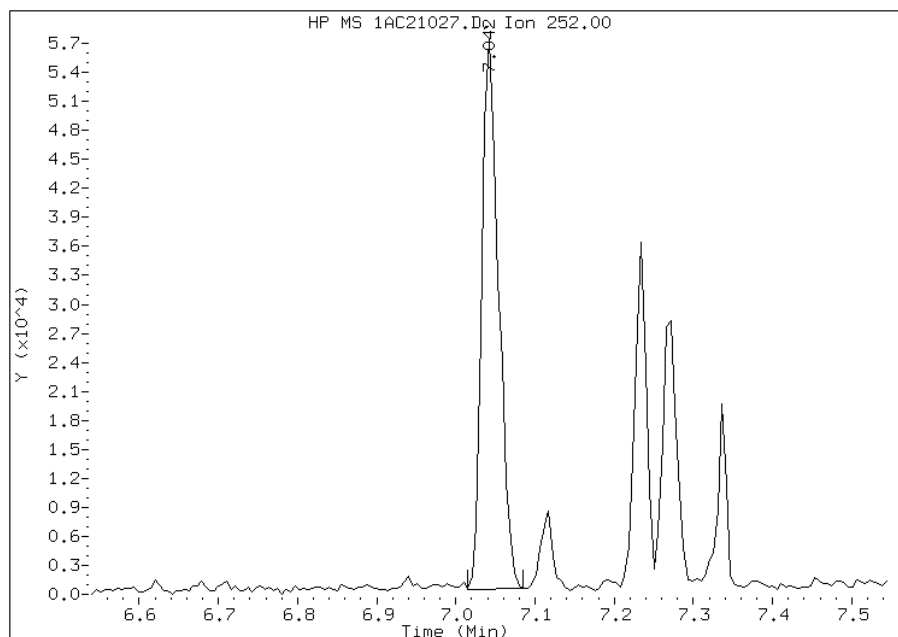
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:43  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AC21027.D  
Inj. Date and Time: 21-MAR-2013 21:45  
Instrument ID: BSMA5973.i  
Client ID: CV0618A-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 03/26/2013

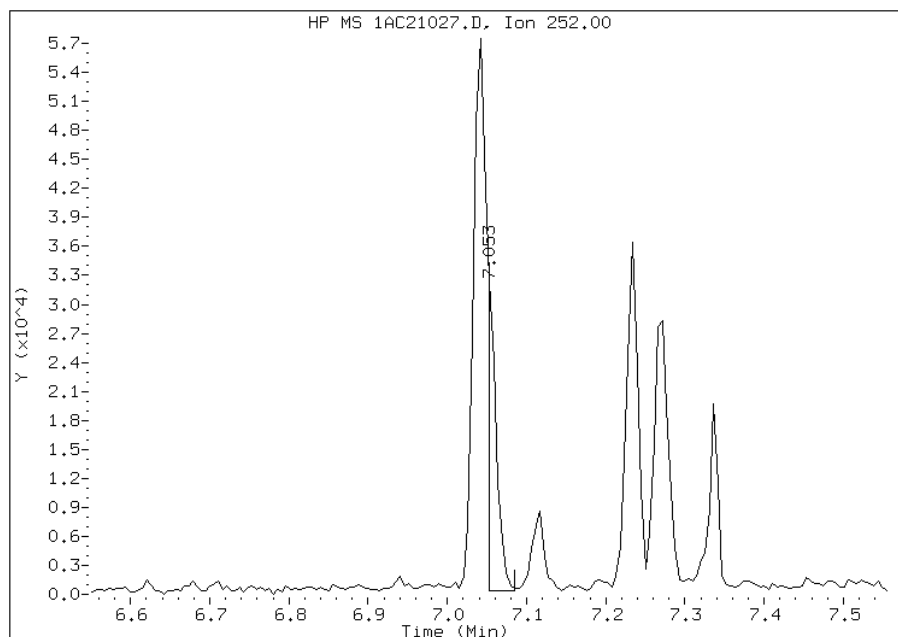
## Processing Integration Results

RT: 7.04  
Response: 82656  
Amount: 4  
Conc: 375



## Manual Integration Results

RT: 7.05  
Response: 24124  
Amount: 1  
Conc: 110



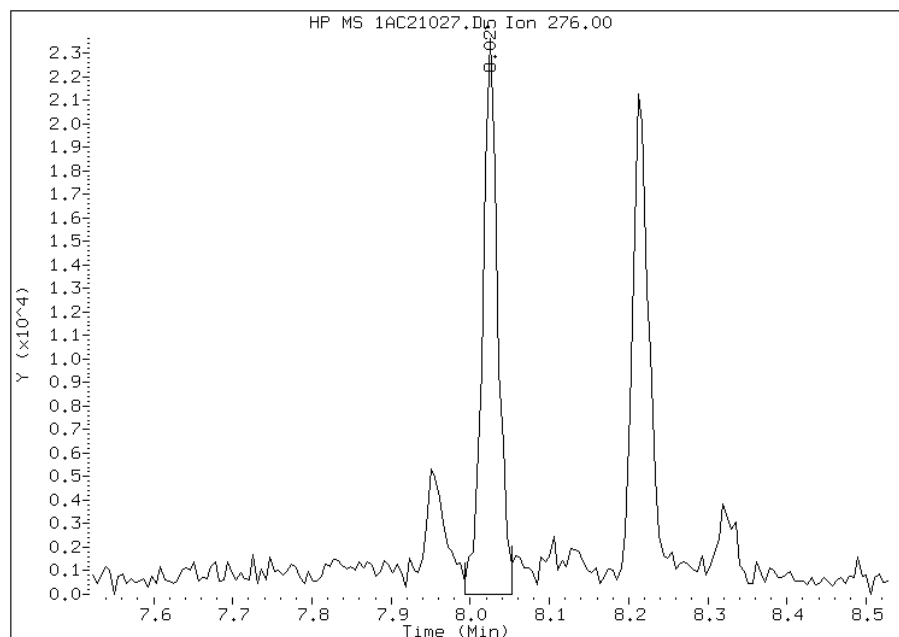
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:43  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AC21027.D  
Inj. Date and Time: 21-MAR-2013 21:45  
Instrument ID: BSMA5973.i  
Client ID: CV0618A-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/26/2013

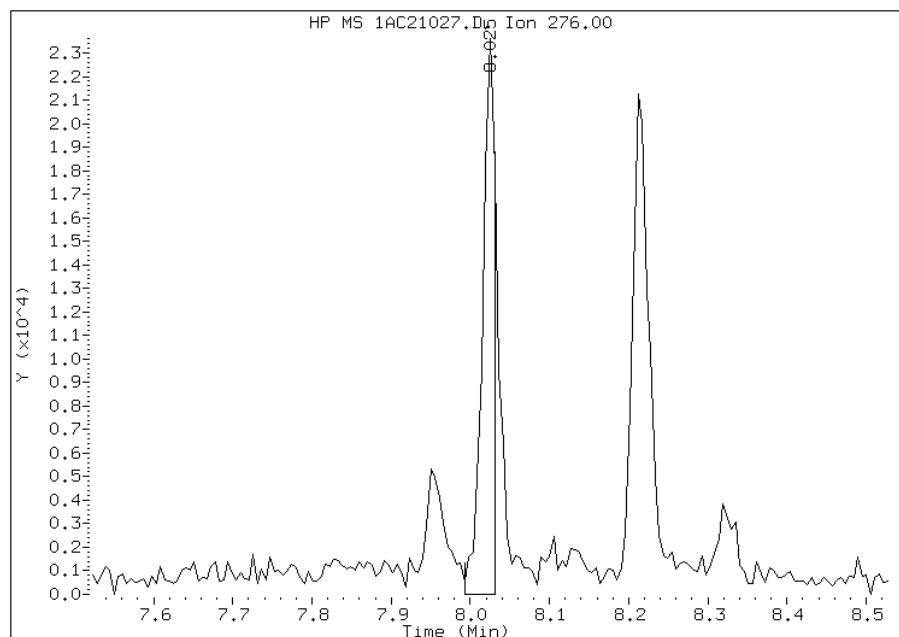
## Processing Integration Results

RT: 8.03  
Response: 31361  
Amount: 2  
Conc: 181



## Manual Integration Results

RT: 8.03  
Response: 25070  
Amount: 2  
Conc: 145



Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:43  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: CV0843A-CS-SP Lab Sample ID: 680-88420-8  
 Matrix: Solid Lab File ID: 1AC21028.D  
 Analysis Method: 8270C LL Date Collected: 03/14/2013 10:03  
 Extract. Method: 3546 Date Extracted: 03/21/2013 08:38  
 Sample wt/vol: 14394(g) Date Analyzed: 03/21/2013 22:00  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 15.5 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135630 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.050	J	0.12	0.025
208-96-8	Acenaphthylene	0.028	J	0.049	0.0062
120-12-7	Anthracene	0.056		0.010	0.0052
56-55-3	Benzo[a]anthracene	0.58		0.0099	0.0048
50-32-8	Benzo[a]pyrene	0.58		0.013	0.0064
205-99-2	Benzo[b]fluoranthene	1.0		0.015	0.0075
191-24-2	Benzo[g,h,i]perylene	0.71		0.025	0.0054
207-08-9	Benzo[k]fluoranthene	0.45		0.0099	0.0044
218-01-9	Chrysene	0.73		0.011	0.0055
53-70-3	Dibenz(a,h)anthracene	0.28		0.025	0.0051
206-44-0	Fluoranthene	0.51		0.025	0.0049
86-73-7	Fluorene	0.035		0.025	0.0051
193-39-5	Indeno[1,2,3-cd]pyrene	0.67		0.025	0.0088
90-12-0	1-Methylnaphthalene	0.031	J	0.049	0.0054
91-57-6	2-Methylnaphthalene	0.092		0.049	0.0088
91-20-3	Naphthalene	0.034	J	0.049	0.0054
85-01-8	Phenanthrene	0.23		0.0099	0.0048
129-00-0	Pyrene	0.55		0.025	0.0046

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	60		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\1AC21028.D  
 Lab Smp Id: 680-88420-A-8-A Client Smp ID: CV0843A-CS-SP  
 Inj Date : 21-MAR-2013 22:00  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-88420-a-8-a  
 Misc Info : 680-88420-A-8-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\a-bFASTPAHi-m.m  
 Meth Date : 21-Mar-2013 17:07 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.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	100.000	Weight Extracted
M	15.471	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.292	2.282	(1.000)	544899	40.0000	
* 6 Acenaphthene-d10	164		3.307	3.302	(1.000)	424020	40.0000	
* 10 Phenanthrene-d10	188		4.231	4.221	(1.000)	603533	40.0000	
\$ 14 o-Terphenyl	230		4.504	4.499	(1.064)	47293	6.02208	71.2428
* 18 Chrysene-d12	240		6.229	6.208	(1.000)	434766	40.0000	
* 23 Perylene-d12	264		7.330	7.292	(1.000)	600841	40.0000	(H)
2 Naphthalene	128		2.298	2.292	(1.002)	5198	0.41290	4.8847
3 2-Methylnaphthalene	141		2.704	2.693	(1.179)	1811	1.11539	13.1953(Q)
4 1-Methylnaphthalene	142		2.757	2.752	(1.203)	2728	0.37685	4.4582
5 Acenaphthylene	152		3.222	3.216	(0.974)	2679	0.34255	4.0524
7 Acenaphthene	154		3.323	3.318	(1.005)	1679	0.60964	7.2122(Q)
9 Fluorene	166		3.633	3.628	(1.099)	2227	0.42045	4.9740
11 Phenanthrene	178		4.242	4.237	(1.003)	42948	2.80772	33.2161
12 Anthracene	178		4.274	4.269	(1.010)	10085	0.67996	8.0440



Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.440	4.424 (1.049)		5607	0.43132	5.1025
15 Fluoranthene	202	5.091	5.081 (1.203)		93598	6.19019	73.2316
16 Pyrene	202	5.257	5.246 (0.844)		83446	6.69402	79.1921
17 Benzo(a)anthracene	228	6.219	6.197 (0.998)		87585	7.11540	84.1770
19 Chrysene	228	6.245	6.224 (1.003)		99809	8.86356	104.8583
20 Benzo(b)fluoranthene	252	7.047	7.015 (0.961)		186591	12.4729	147.5574(MH)
21 Benzo(k)fluoranthene	252	7.052	7.036 (0.962)		89495	5.52194	65.3260(MH)
22 Benzo(a)pyrene	252	7.271	7.244 (0.992)		98946	7.01719	83.0153(H)
24 Indeno(1,2,3-cd)pyrene	276	8.024	7.987 (1.095)		103234	8.11400	95.9908(MH)
25 Dibenzo(a,h)anthracene	278	8.030	7.998 (1.095)		42474	3.36838	39.8488(H)
26 Benzo(g,h,i)perylene	276	8.211	8.169 (1.120)		110256	8.60909	101.8478(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: 1AC21028.D

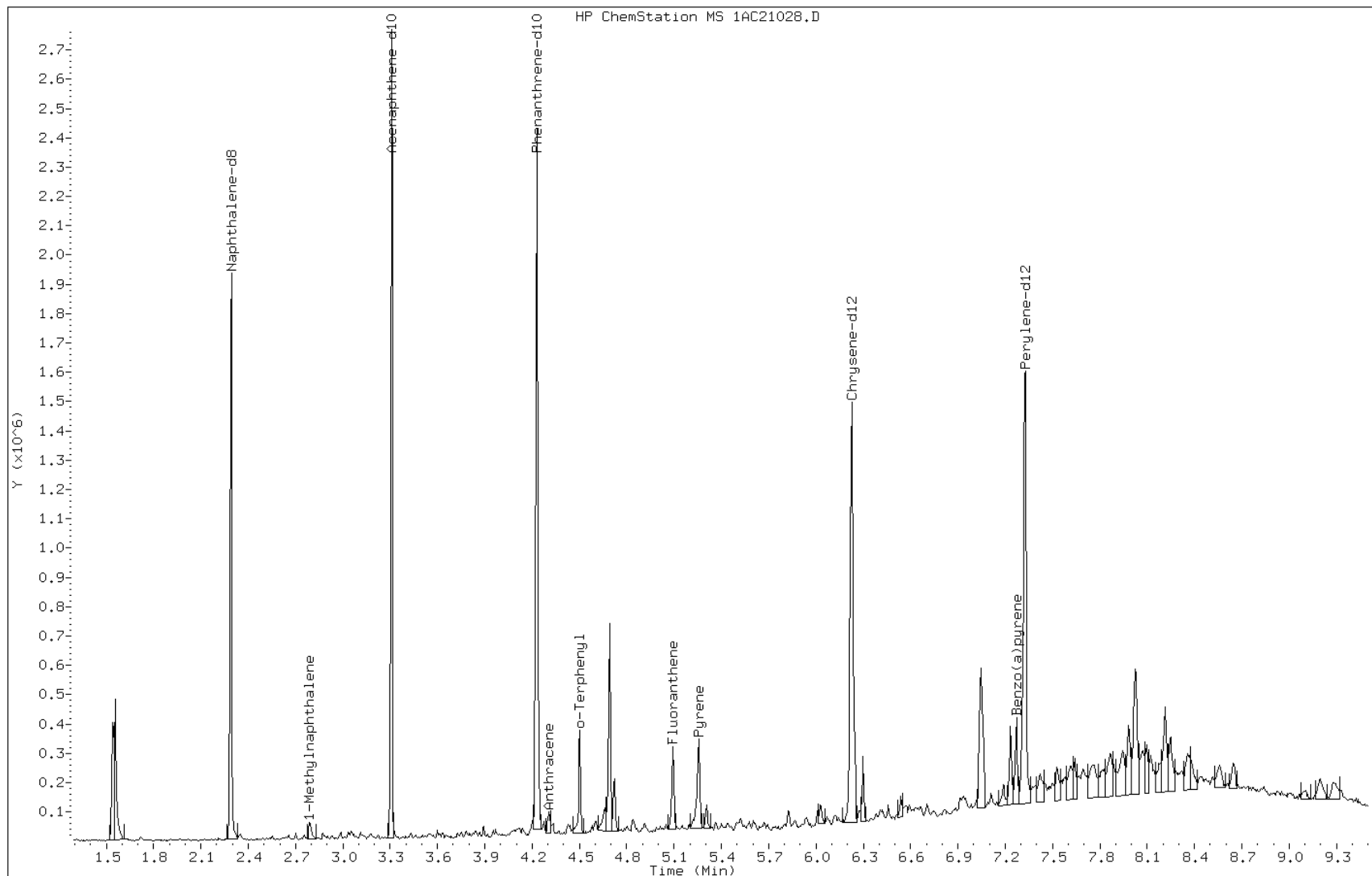
Date: 21-MAR-2013 22:00

Client ID: CV0843A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-8-a

Operator: SCC



Data File: 1AC21028.D

Date: 21-MAR-2013 22:00

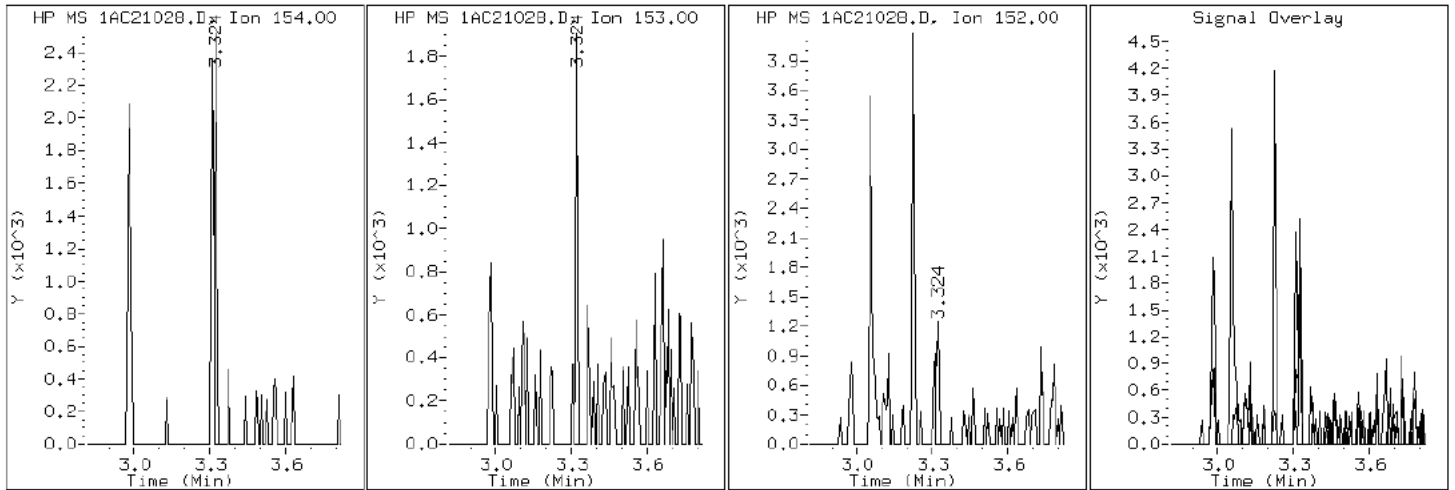
Client ID: CV0843A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-8-a

Operator: SCC

7 Acenaphthene



Data File: 1AC21028.D

Date: 21-MAR-2013 22:00

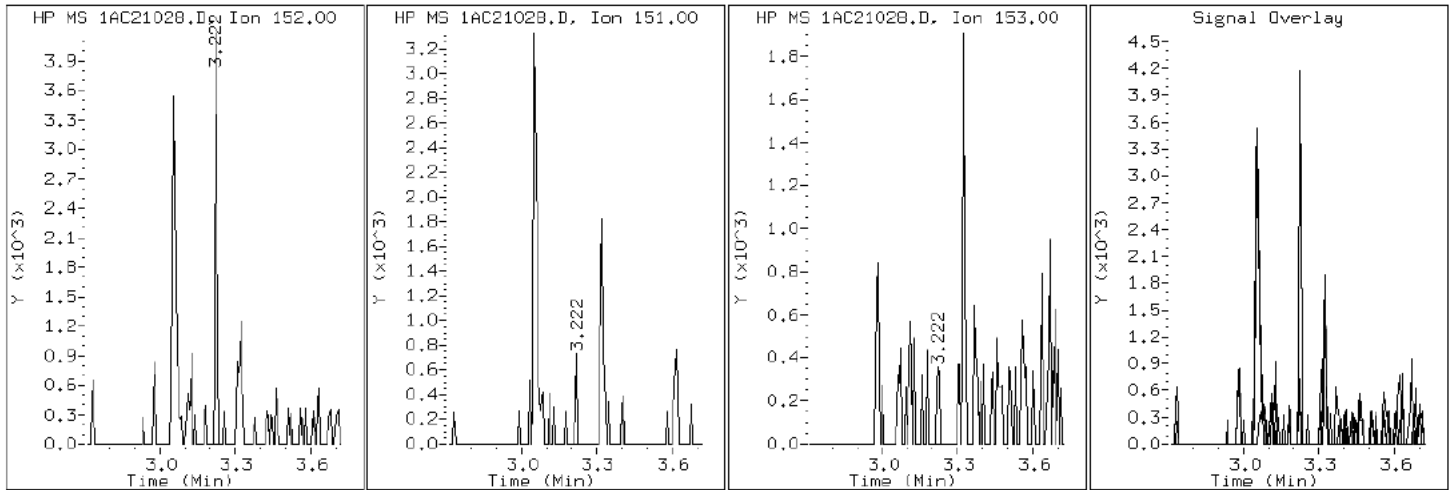
Client ID: CV0843A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-8-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC21028.D

Date: 21-MAR-2013 22:00

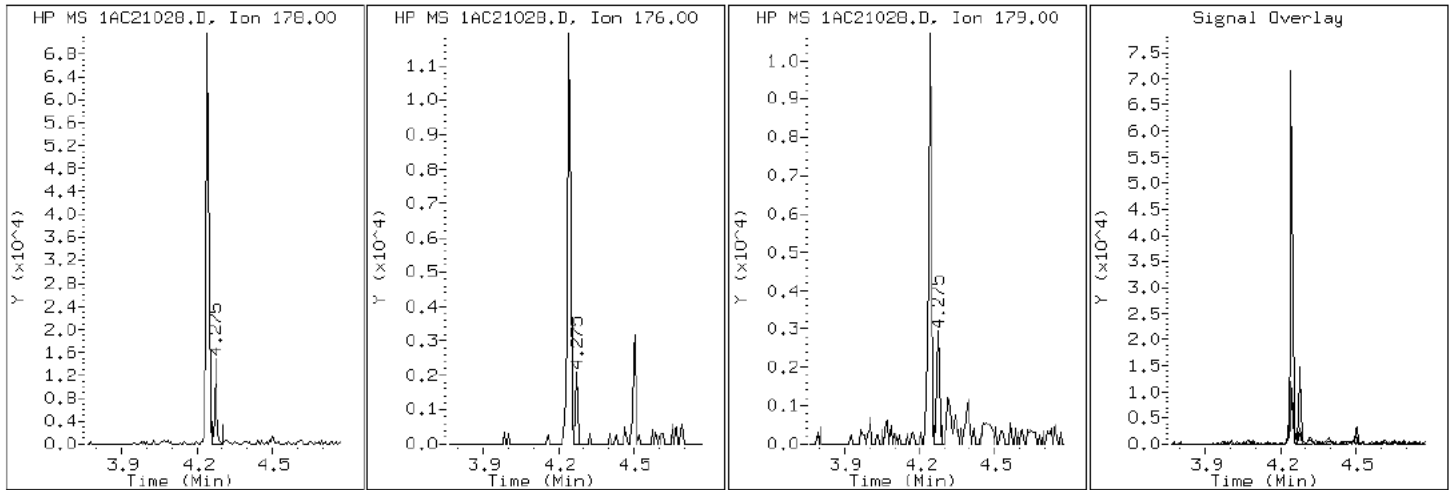
Client ID: CV0843A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-8-a

Operator: SCC

12 Anthracene



Data File: 1AC21028.D

Date: 21-MAR-2013 22:00

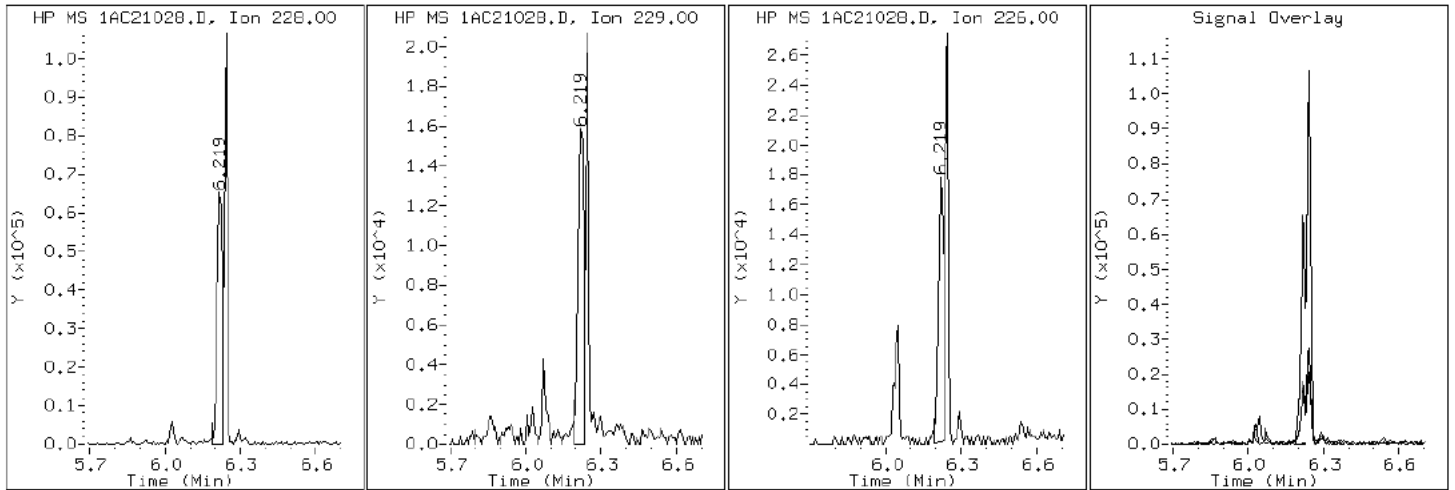
Client ID: CV0843A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-8-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC21028.D

Date: 21-MAR-2013 22:00

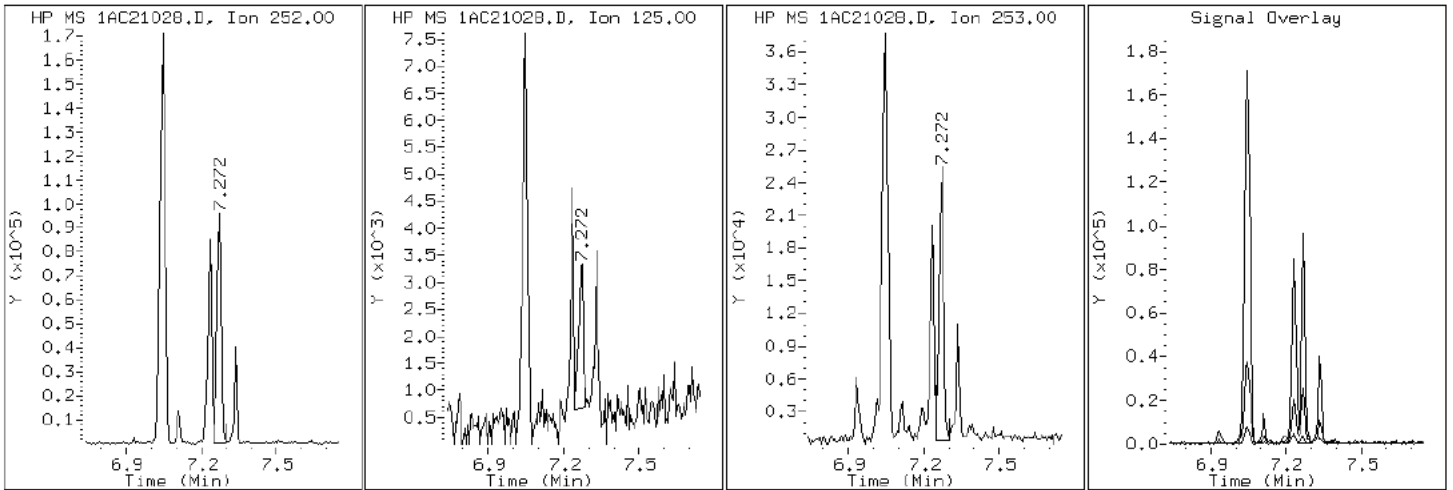
Client ID: CV0843A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-8-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC21028.D

Date: 21-MAR-2013 22:00

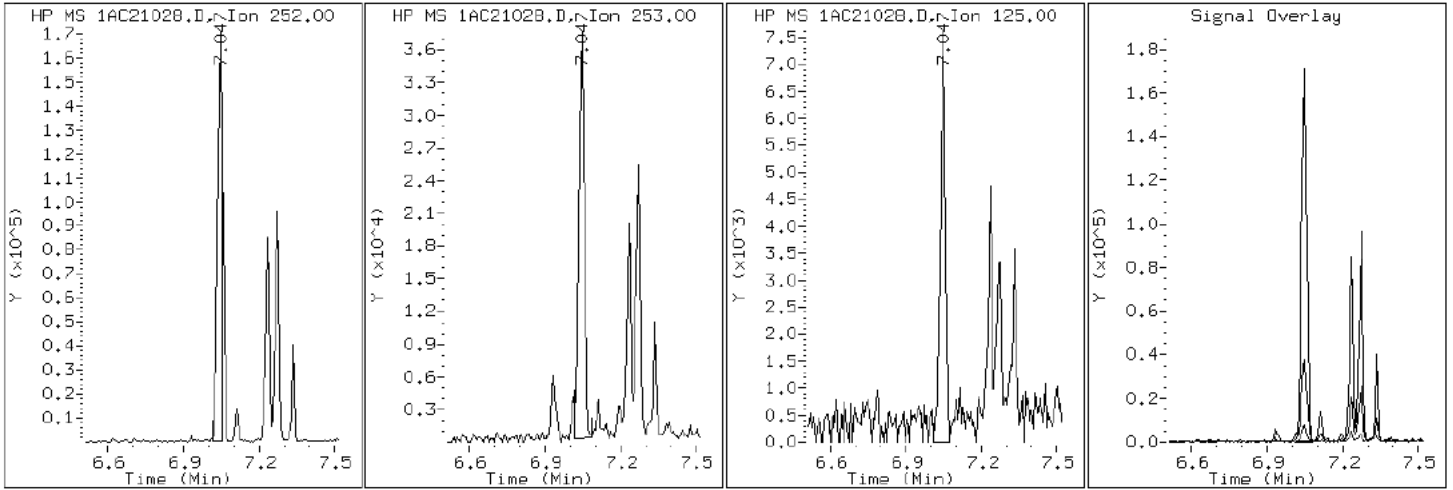
Client ID: CV0843A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-8-a

Operator: SCC

20 Benzo (b) fluoranthene





Data File: 1AC21028.D

Date: 21-MAR-2013 22:00

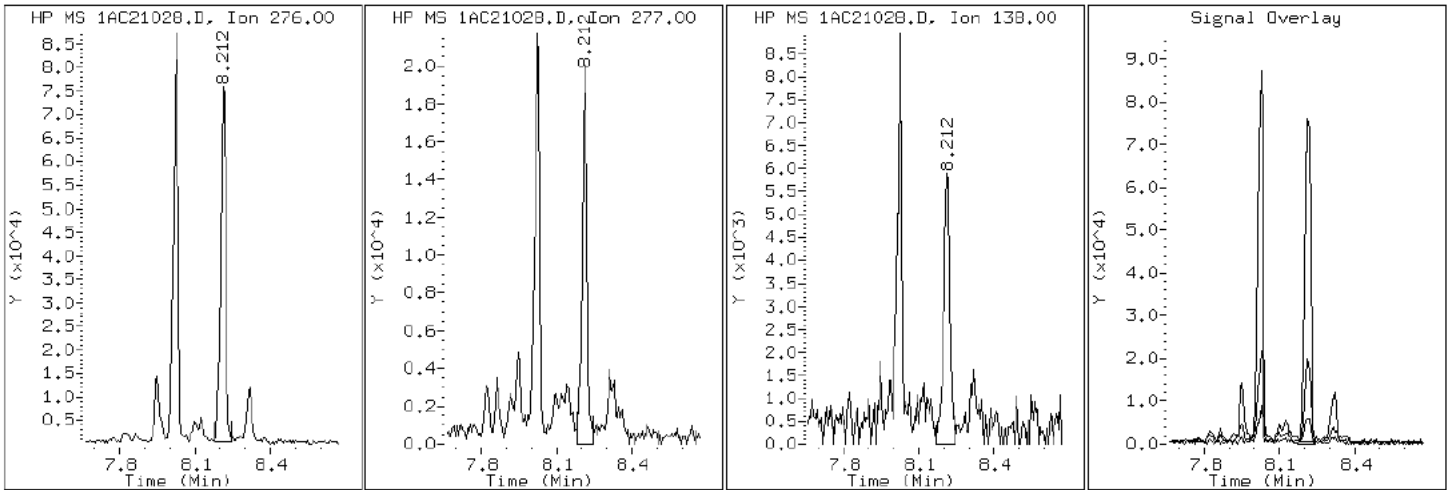
Client ID: CV0843A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-8-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC21028.D

Date: 21-MAR-2013 22:00

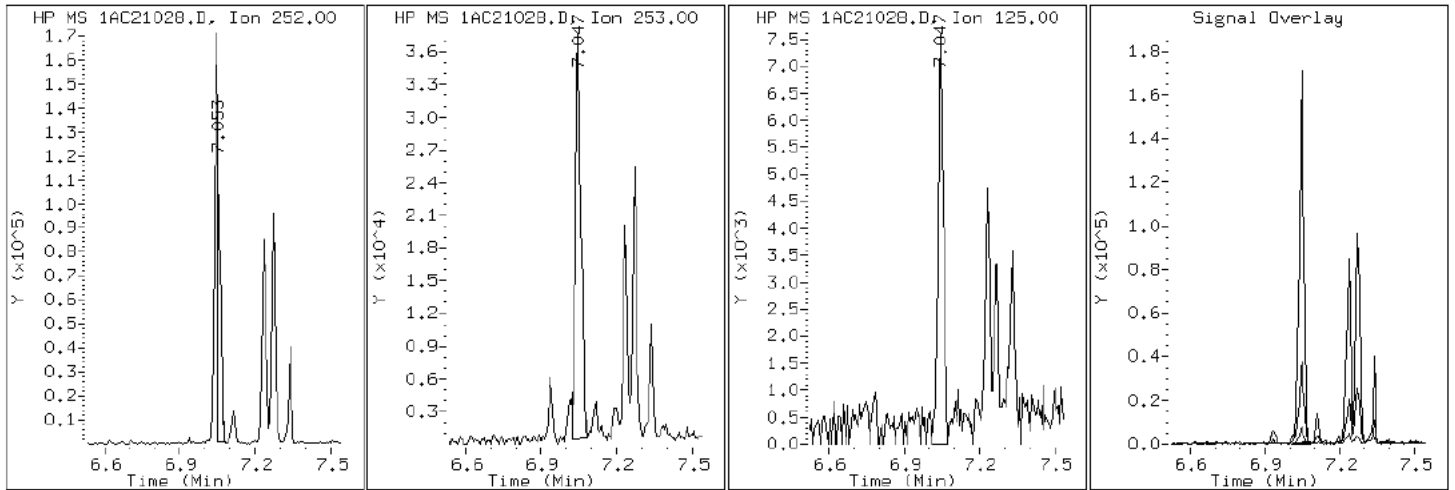
Client ID: CV0843A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-8-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC21028.D

Date: 21-MAR-2013 22:00

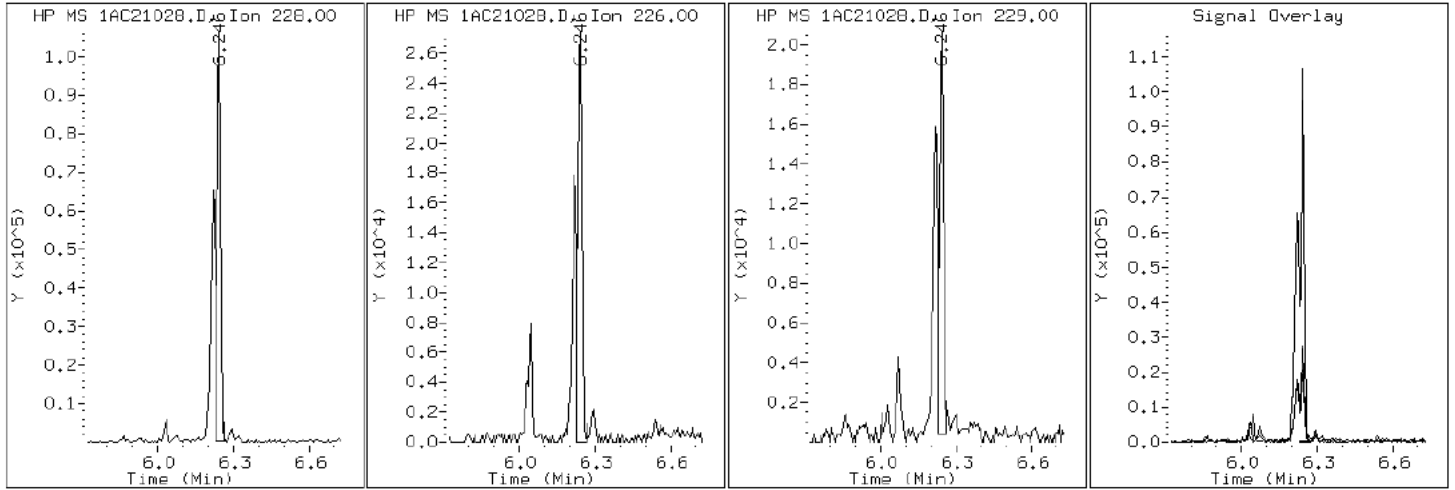
Client ID: CV0843A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-8-a

Operator: SCC

19 Chrysene



Data File: 1AC21028.D

Date: 21-MAR-2013 22:00

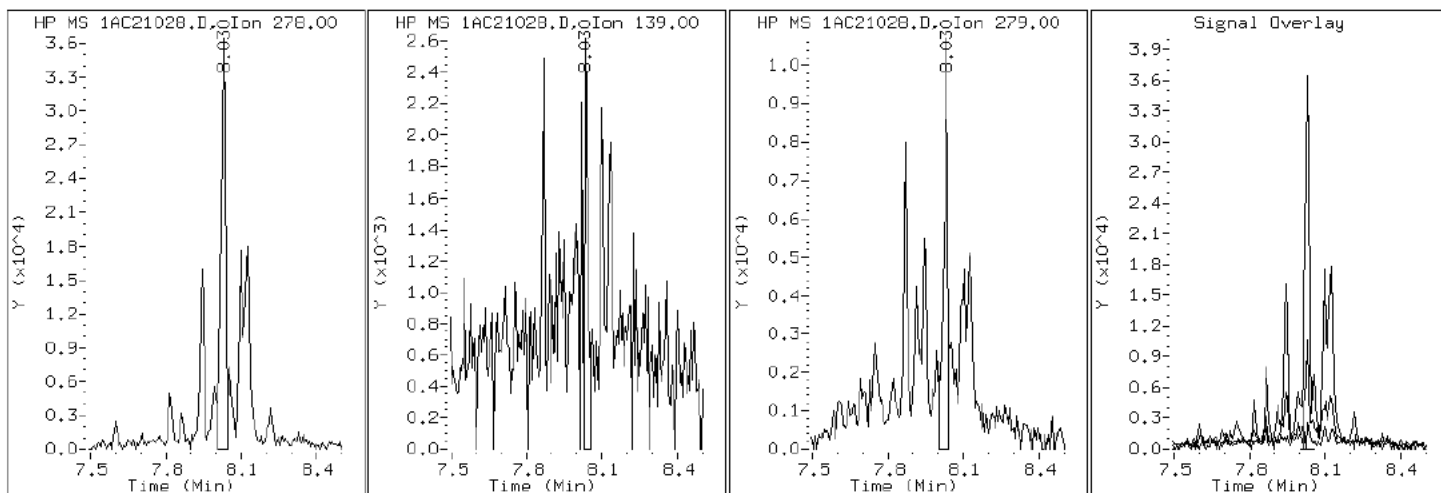
Client ID: CV0843A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-8-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC21028.D

Date: 21-MAR-2013 22:00

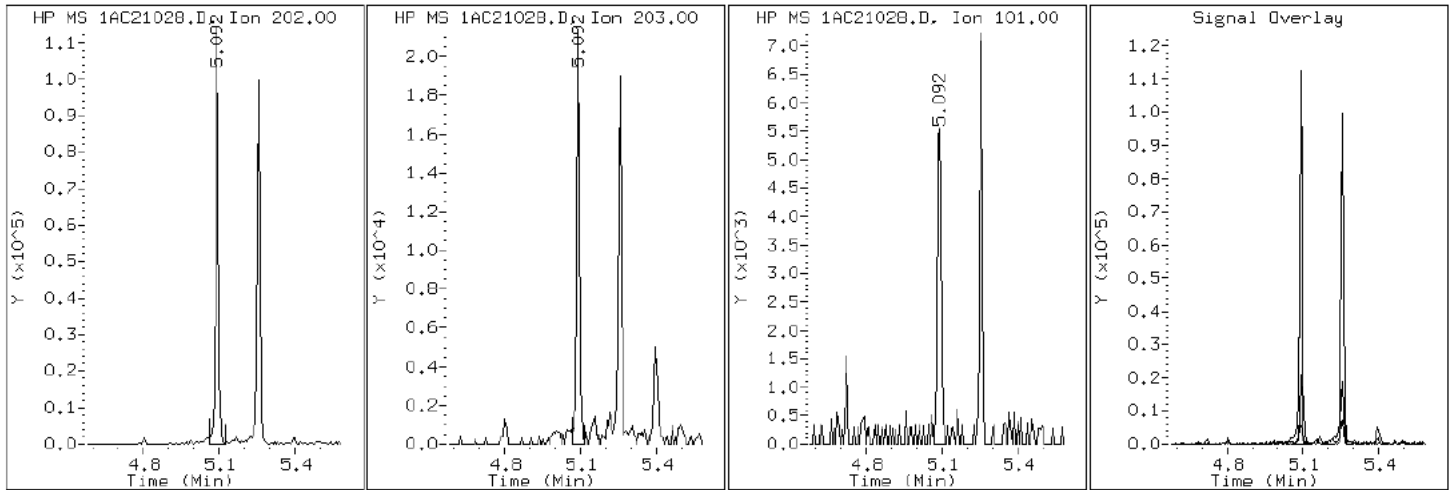
Client ID: CV0843A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-8-a

Operator: SCC

15 Fluoranthene



Data File: 1AC21028.D

Date: 21-MAR-2013 22:00

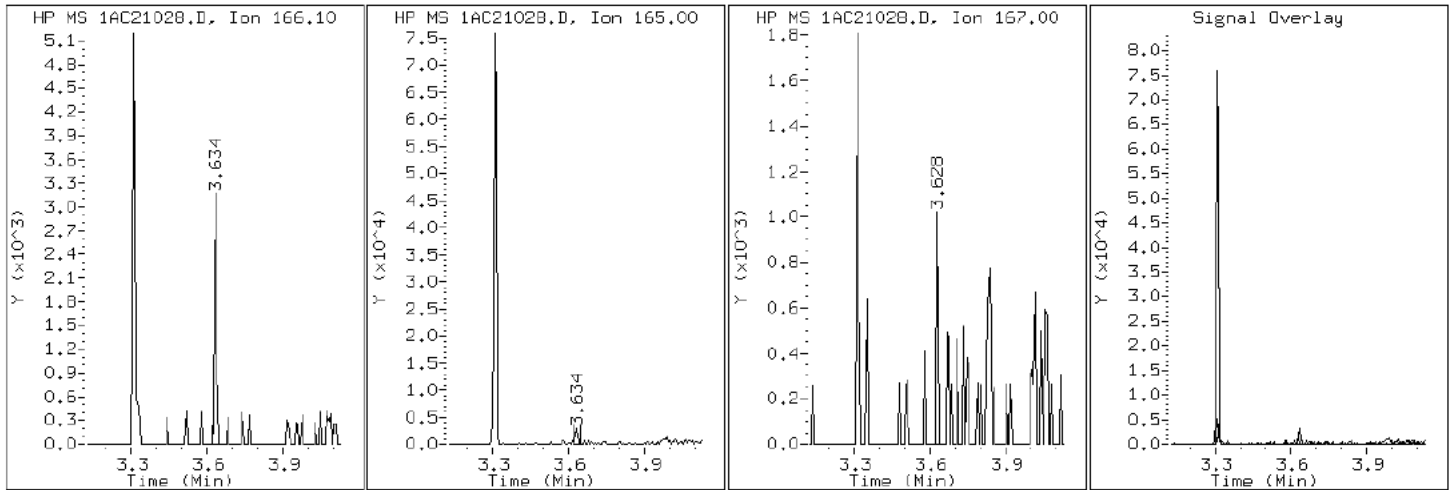
Client ID: CV0843A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-8-a

Operator: SCC

9 Fluorene



Data File: 1AC21028.D

Date: 21-MAR-2013 22:00

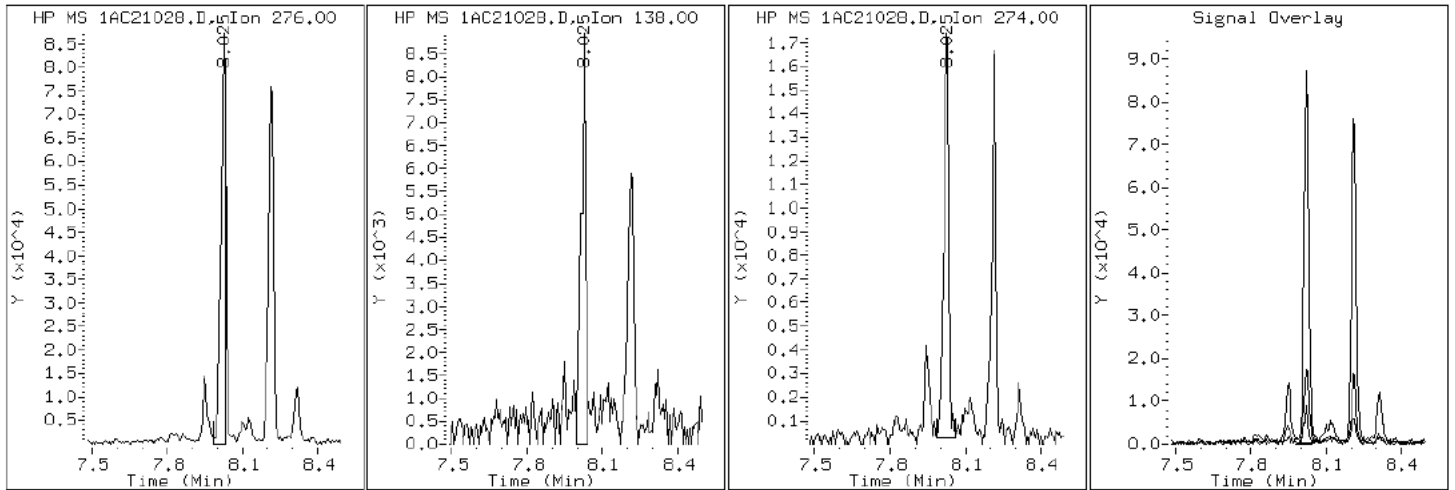
Client ID: CV0843A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-8-a

Operator: SCC

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



Data File: 1AC21028.D

Date: 21-MAR-2013 22:00

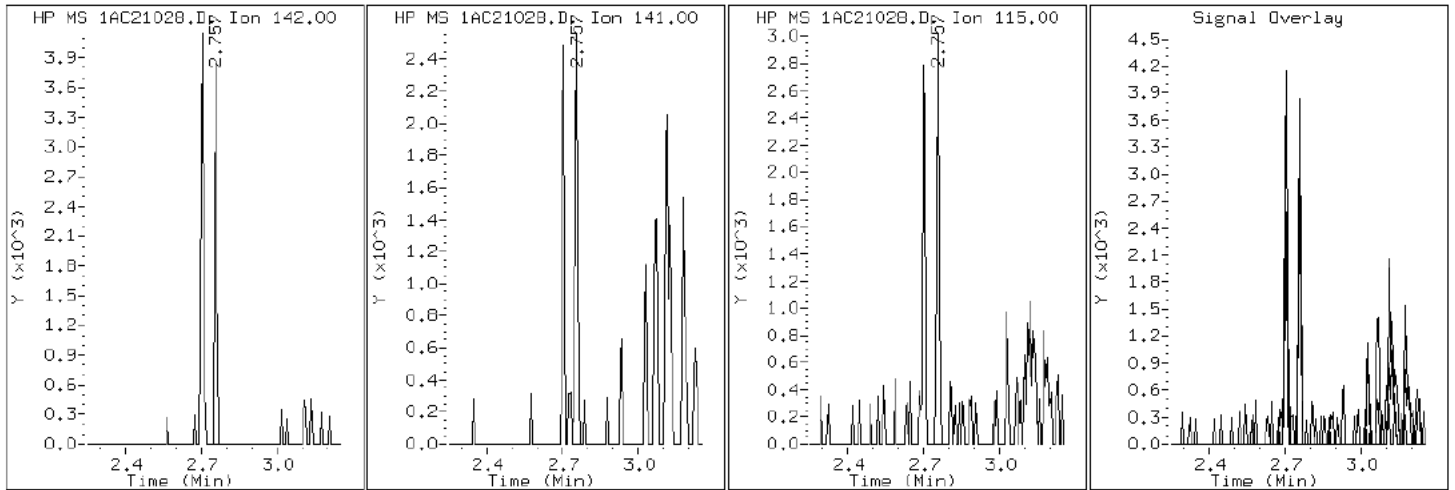
Client ID: CV0843A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-8-a

Operator: SCC

4 1-Methylnaphthalene





Data File: 1AC21028.D

Date: 21-MAR-2013 22:00

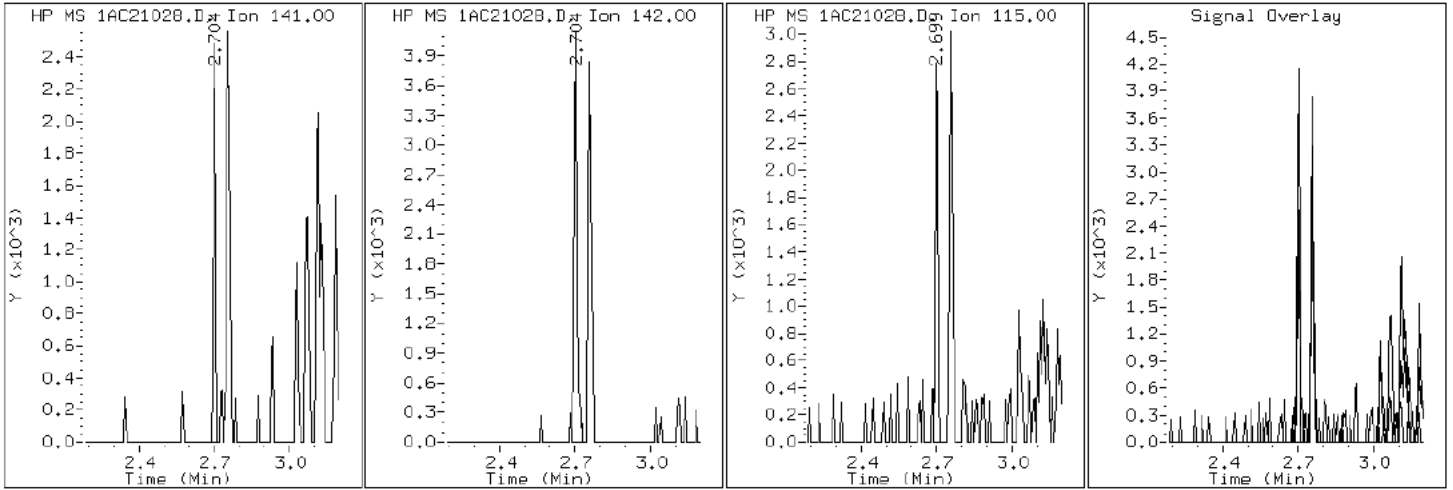
Client ID: CV0843A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-8-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC21028.D

Date: 21-MAR-2013 22:00

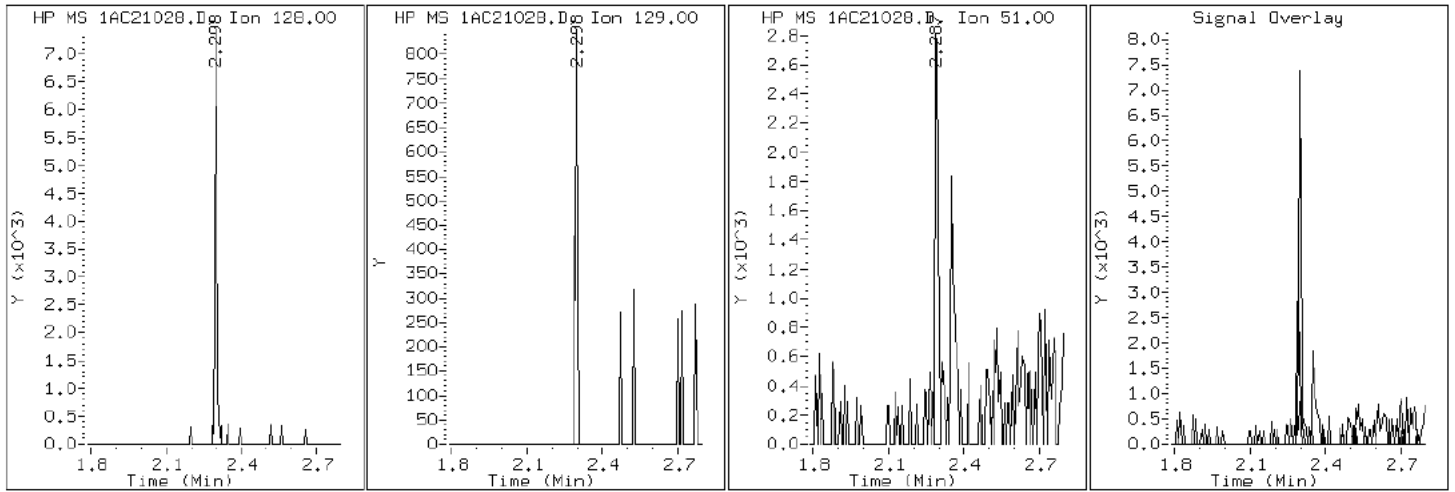
Client ID: CV0843A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-8-a

Operator: SCC

2 Naphthalene



Data File: 1AC21028.D

Date: 21-MAR-2013 22:00

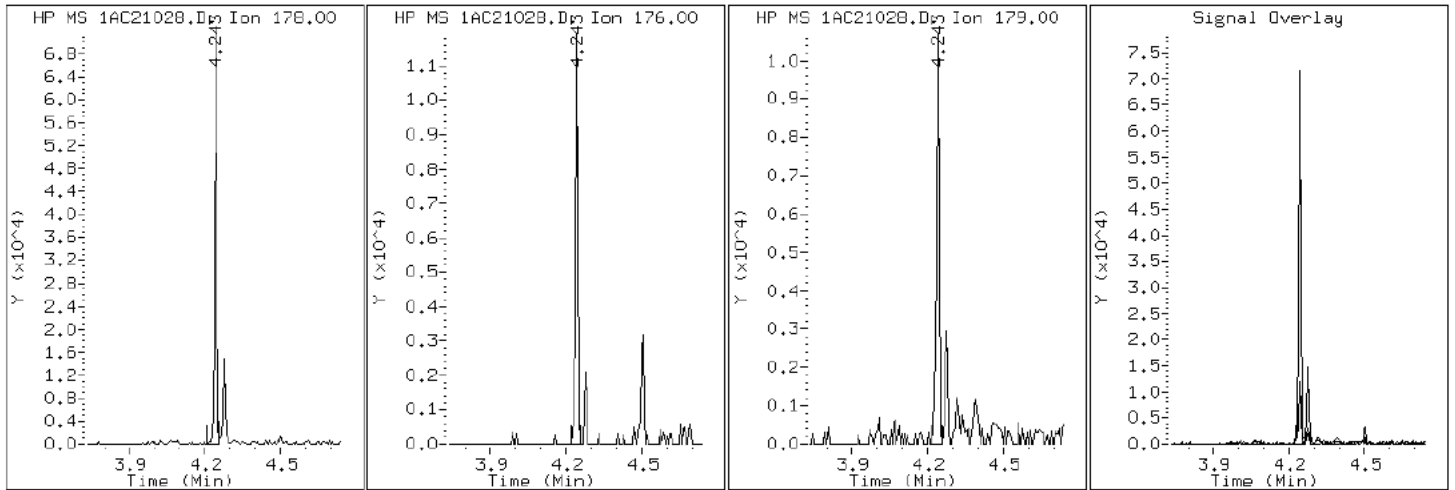
Client ID: CV0843A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-8-a

Operator: SCC

11 Phenanthrene



Data File: 1AC21028.D

Date: 21-MAR-2013 22:00

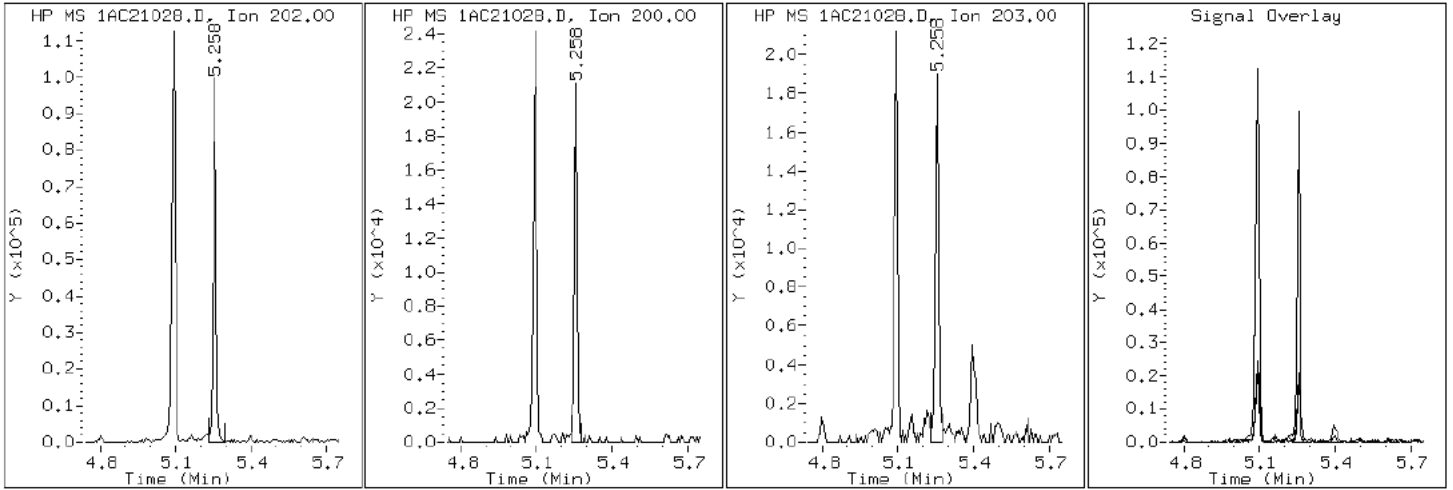
Client ID: CV0843A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-8-a

Operator: SCC

16 Pyrene

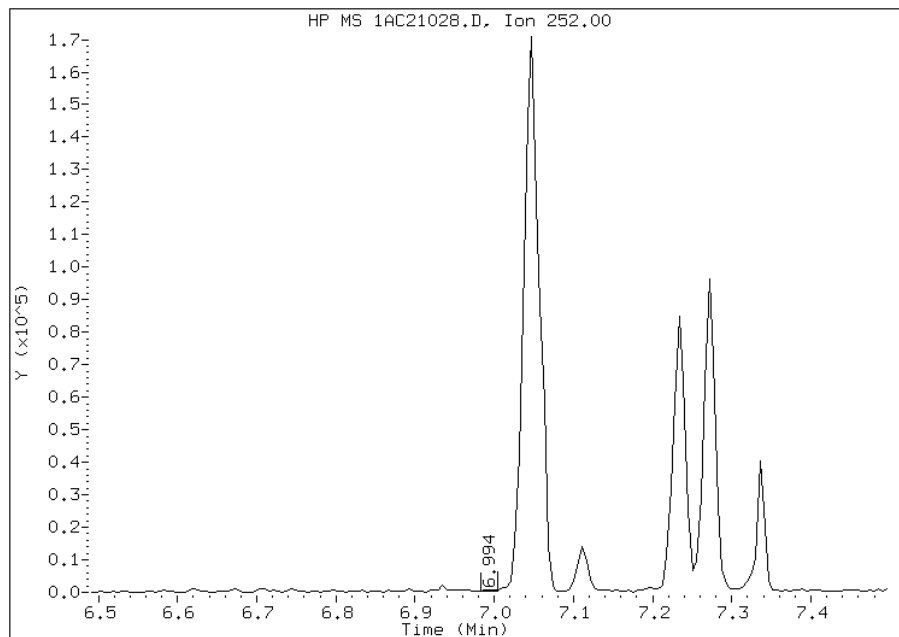


Manual Integration Report

Data File: 1AC21028.D  
Inj. Date and Time: 21-MAR-2013 22:00  
Instrument ID: BSMA5973.i  
Client ID: CV0843A-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 03/26/2013

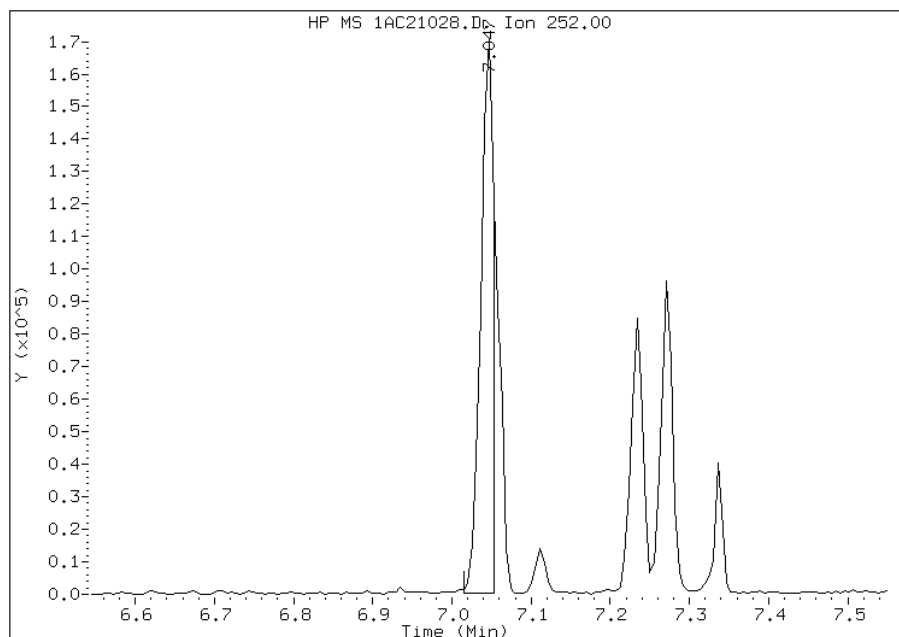
Processing Integration Results

RT: 6.99  
Response: 397  
Amount: 1  
Conc: 15



Manual Integration Results

RT: 7.05  
Response: 186591  
Amount: 12  
Conc: 148



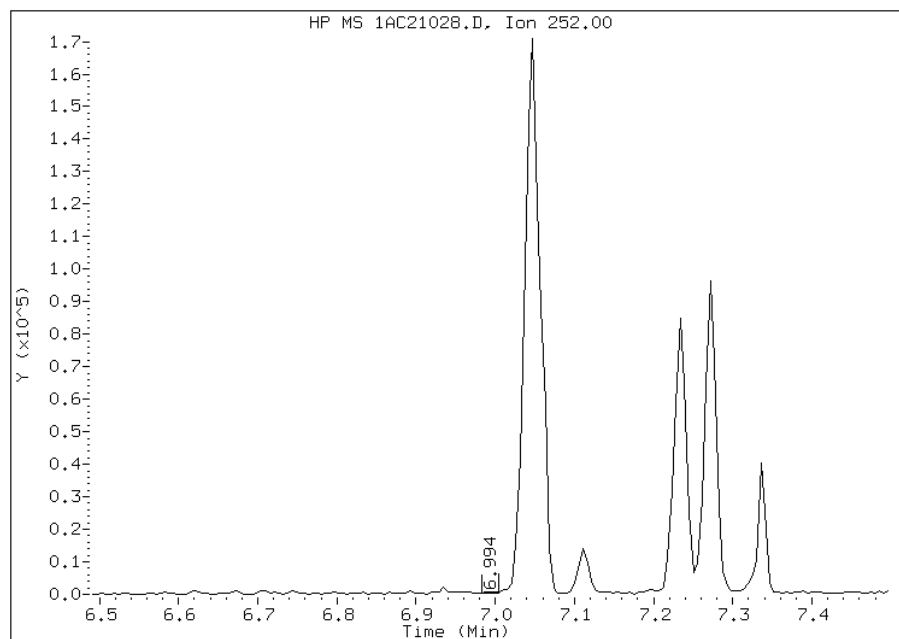
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:44  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AC21028.D  
Inj. Date and Time: 21-MAR-2013 22:00  
Instrument ID: BSMA5973.i  
Client ID: CV0843A-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 03/26/2013

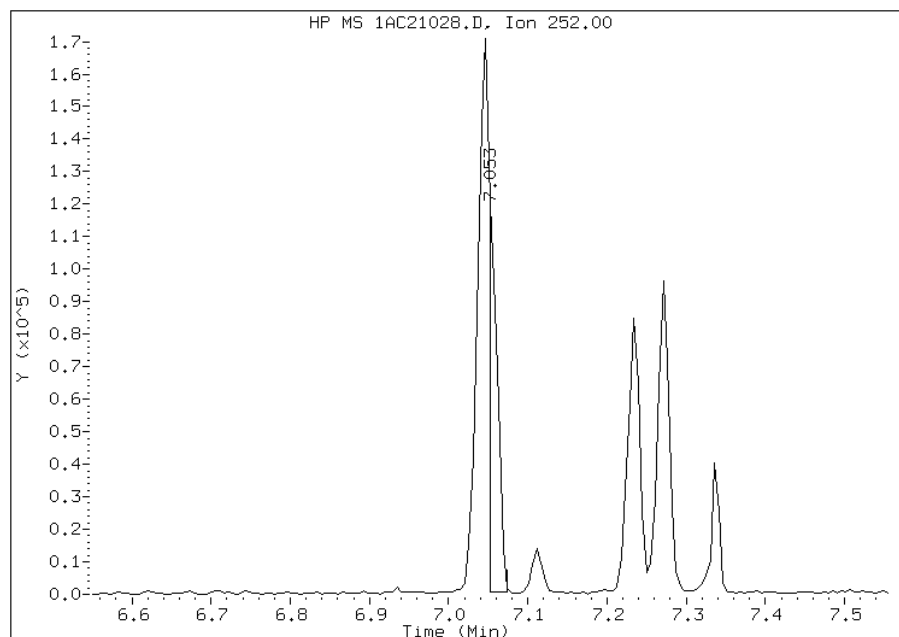
## Processing Integration Results

RT: 6.99  
Response: 397  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 7.05  
Response: 89495  
Amount: 6  
Conc: 65



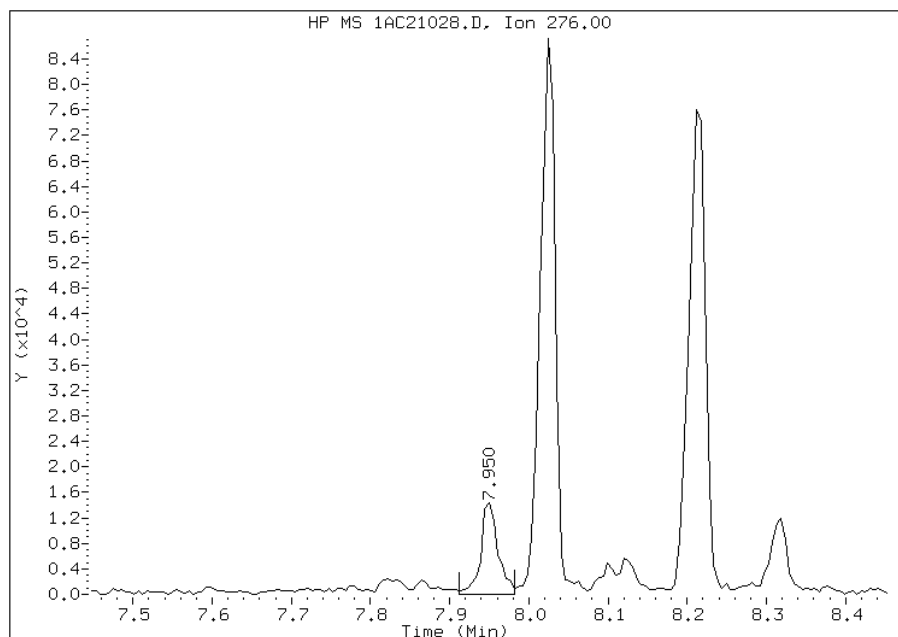
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:44  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AC21028.D  
Inj. Date and Time: 21-MAR-2013 22:00  
Instrument ID: BSMA5973.i  
Client ID: CV0843A-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/26/2013

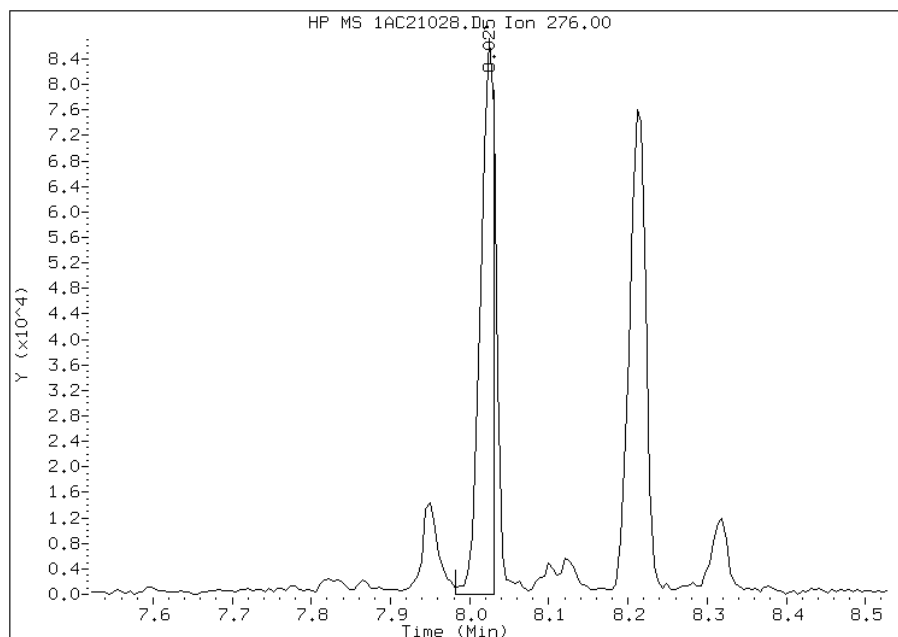
## Processing Integration Results

RT: 7.95  
Response: 21607  
Amount: 2  
Conc: 20



## Manual Integration Results

RT: 8.02  
Response: 103234  
Amount: 8  
Conc: 96



Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:45  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: CV0843B-CS-SP Lab Sample ID: 680-88420-9  
 Matrix: Solid Lab File ID: 1AC21029.D  
 Analysis Method: 8270C LL Date Collected: 03/14/2013 10:11  
 Extract. Method: 3546 Date Extracted: 03/21/2013 08:38  
 Sample wt/vol: 15.02(g) Date Analyzed: 03/21/2013 22:15  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 25.3 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135630 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	210	U	210	27
120-12-7	Anthracene	120		45	22
56-55-3	Benzo[a]anthracene	1500		43	21
50-32-8	Benzo[a]pyrene	1500		56	28
205-99-2	Benzo[b]fluoranthene	3000		65	33
191-24-2	Benzo[g,h,i]perylene	1700		110	24
207-08-9	Benzo[k]fluoranthene	770		43	19
218-01-9	Chrysene	1800		48	24
53-70-3	Dibenz(a,h)anthracene	570		110	22
206-44-0	Fluoranthene	1500		110	21
86-73-7	Fluorene	110	U	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	1500		110	38
90-12-0	1-Methylnaphthalene	38	J	210	24
91-57-6	2-Methylnaphthalene	370		210	38
91-20-3	Naphthalene	88	J	210	24
85-01-8	Phenanthrene	550		43	21
129-00-0	Pyrene	1500		110	20

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



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\1AC21029.D  
 Lab Smp Id: 680-88420-A-9-A Client Smp ID: CV0843B-CS-SP  
 Inj Date : 21-MAR-2013 22:15  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-88420-a-9-a  
 Misc Info : 680-88420-A-9-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\a-bFASTPAHi-m.m  
 Meth Date : 21-Mar-2013 17:07 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.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	15.020	Weight Extracted
M	25.320	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.293	2.282	(1.000)	504685	40.0000	
* 6 Acenaphthene-d10	164		3.308	3.302	(1.000)	378340	40.0000	
* 10 Phenanthrene-d10	188		4.232	4.221	(1.000)	591182	40.0000	
\$ 14 o-Terphenyl	230		4.499	4.499	(1.063)	10523	1.45330	518.2516
* 18 Chrysene-d12	240		6.230	6.208	(1.000)	469889	40.0000	
* 23 Perylene-d12	264		7.325	7.292	(1.000)	629481	40.0000	(H)
2 Naphthalene	128		2.298	2.292	(1.002)	2878	0.24683	88.0196(Q)
3 2-Methylnaphthalene	141		2.704	2.693	(1.179)	1215	1.05076	374.7025(Q)
4 1-Methylnaphthalene	142		2.752	2.752	(1.200)	707	0.10545	37.6032
11 Phenanthrene	178		4.243	4.237	(1.003)	23276	1.55346	553.9675
12 Anthracene	178		4.275	4.269	(1.010)	4949	0.34065	121.4751
13 Carbazole	167		4.435	4.424	(1.048)	2261	0.17756	63.3183
15 Fluoranthene	202		5.092	5.081	(1.203)	61475	4.15065	1480.1329
16 Pyrene	202		5.258	5.246	(0.844)	56989	4.22993	1508.4044

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		-----	-----	-----	-----	-----	-----
17 Benzo(a)anthracene	228		6.219	6.197	(0.998)	56359	4.30448	1534.9892
19 Chrysene	228		6.241	6.224	(1.002)	62099	5.10250	1819.5667
20 Benzo(b)fluoranthene	252		7.042	7.015	(0.961)	126035	8.46891	3020.0363(MH)
21 Benzo(k)fluoranthene	252		7.053	7.036	(0.963)	36839	2.16959	773.6818(QM)
22 Benzo(a)pyrene	252		7.266	7.244	(0.992)	60826	4.11748	1468.3044(H)
24 Indeno(1,2,3-cd)pyrene	276		8.020	7.987	(1.095)	57465	4.31115	1537.3668(MH)
25 Dibenzo(a,h)anthracene	278		8.025	7.998	(1.096)	21220	1.60627	572.8019(H)
26 Benzo(g,h,i)perylene	276		8.207	8.169	(1.120)	62450	4.65441	1659.7738(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: 1AC21029.D

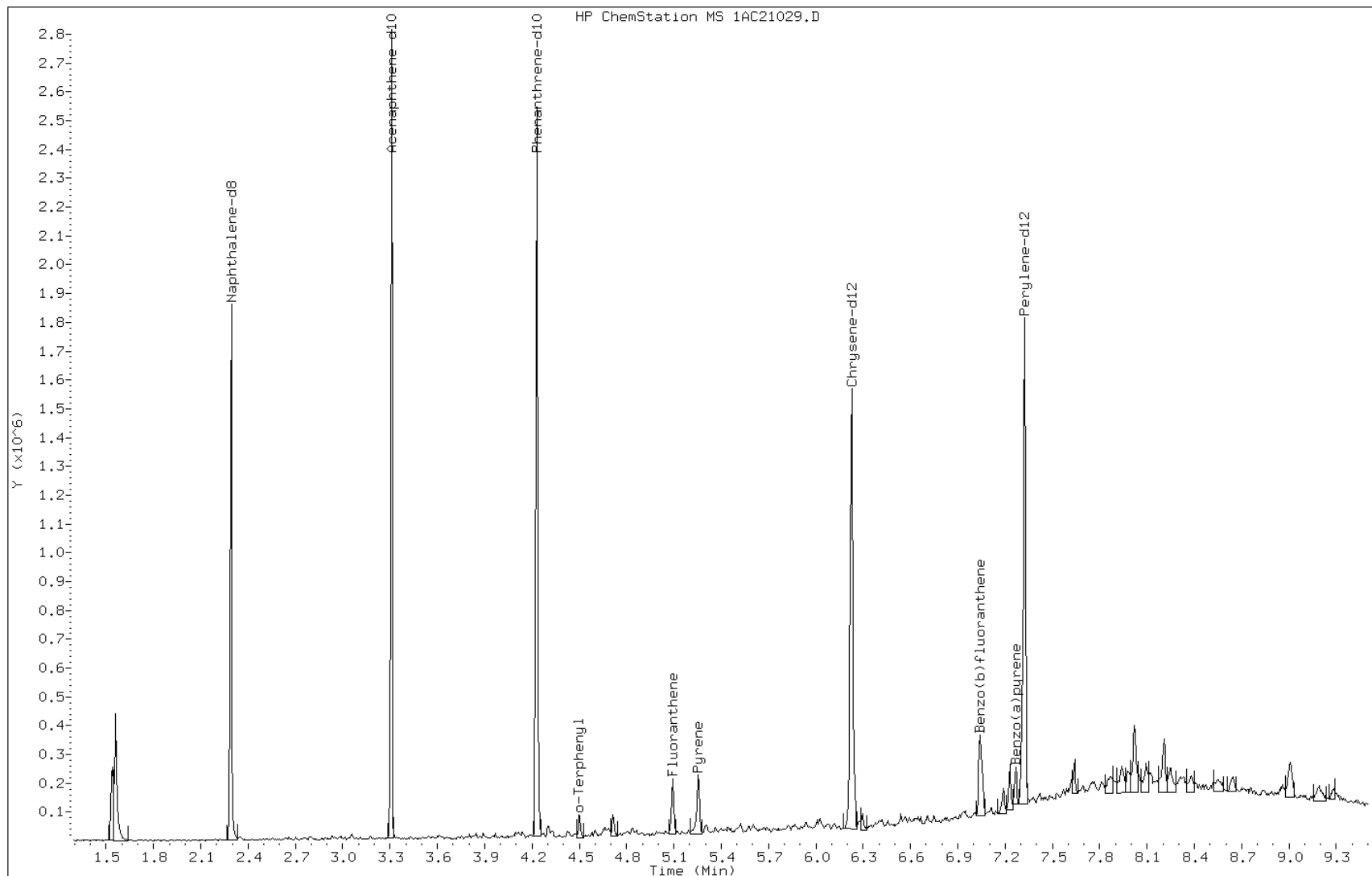
Date: 21-MAR-2013 22:15

Client ID: CV0843B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-9-a

Operator: SCC



Data File: 1AC21029.D

Date: 21-MAR-2013 22:15

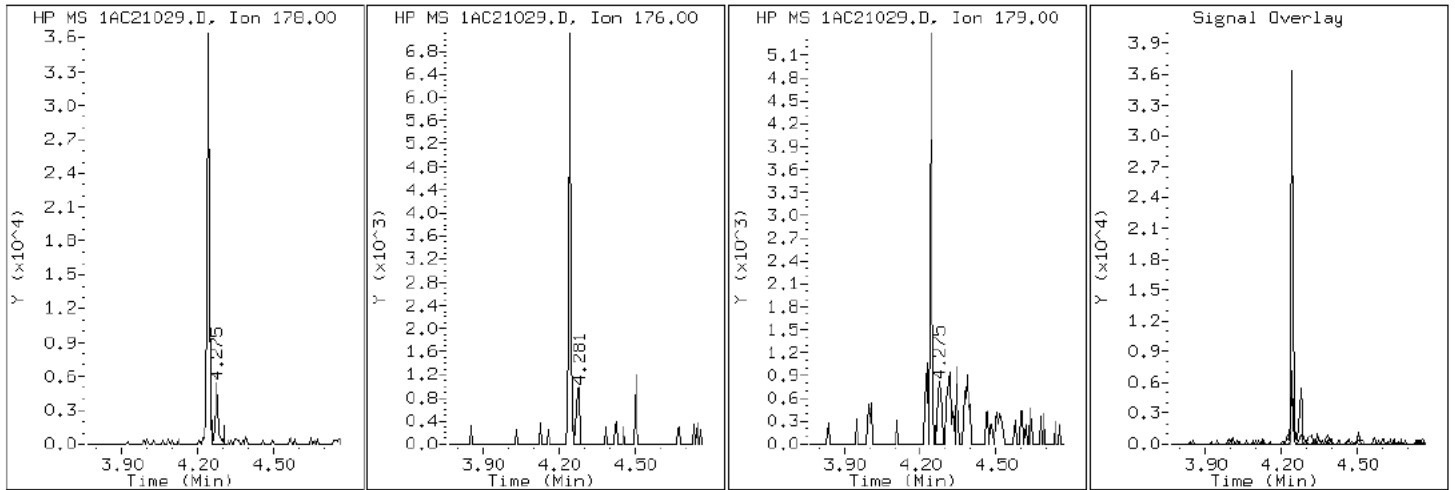
Client ID: CV0843B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-9-a

Operator: SCC

12 Anthracene



Data File: 1AC21029.D

Date: 21-MAR-2013 22:15

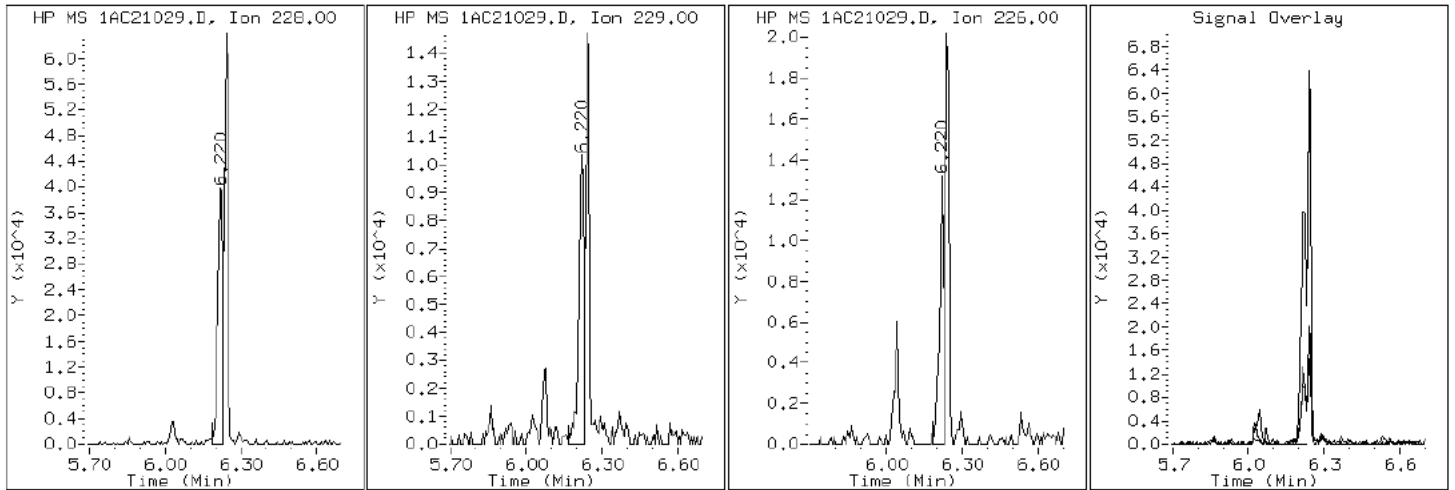
Client ID: CV0843B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-9-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC21029.D

Date: 21-MAR-2013 22:15

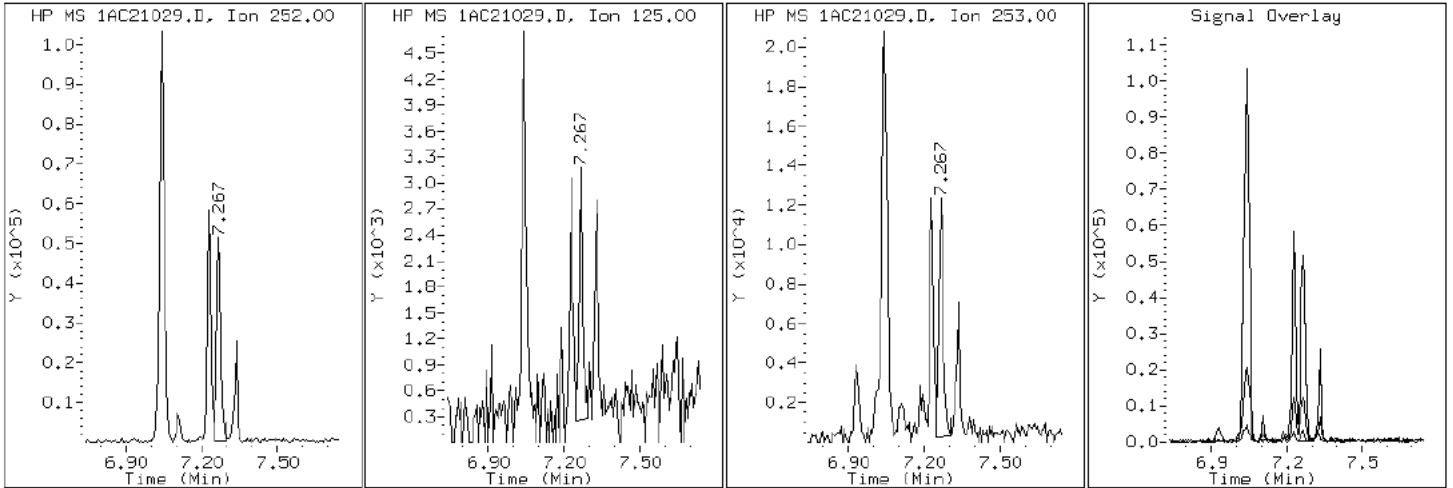
Client ID: CV0843B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-9-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC21029.D

Date: 21-MAR-2013 22:15

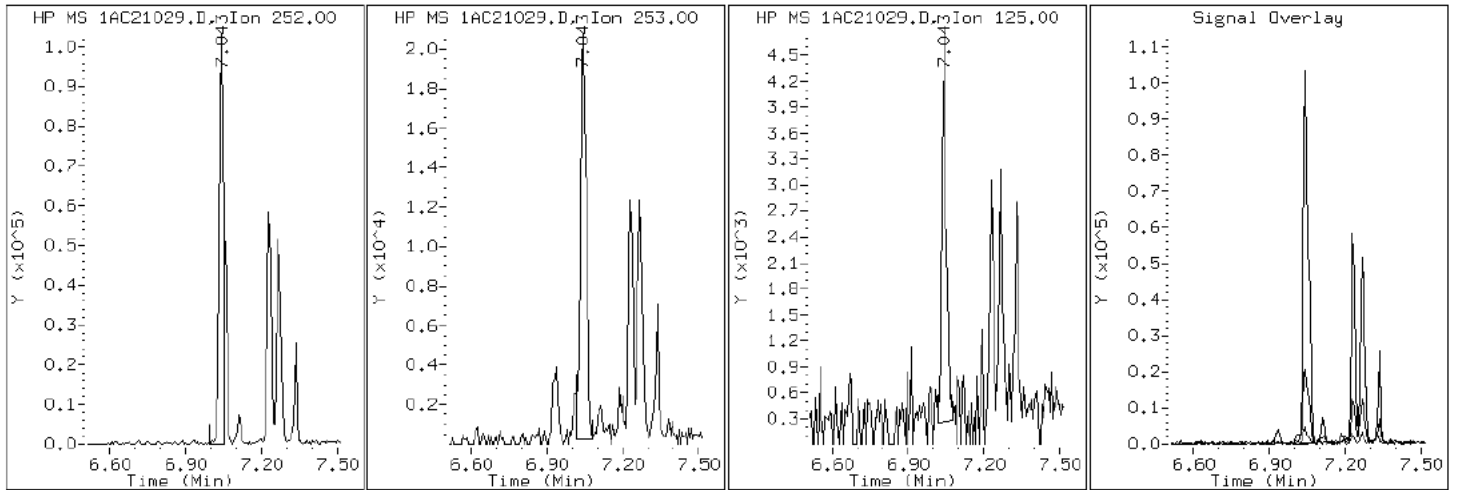
Client ID: CV0843B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-9-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC21029.D

Date: 21-MAR-2013 22:15

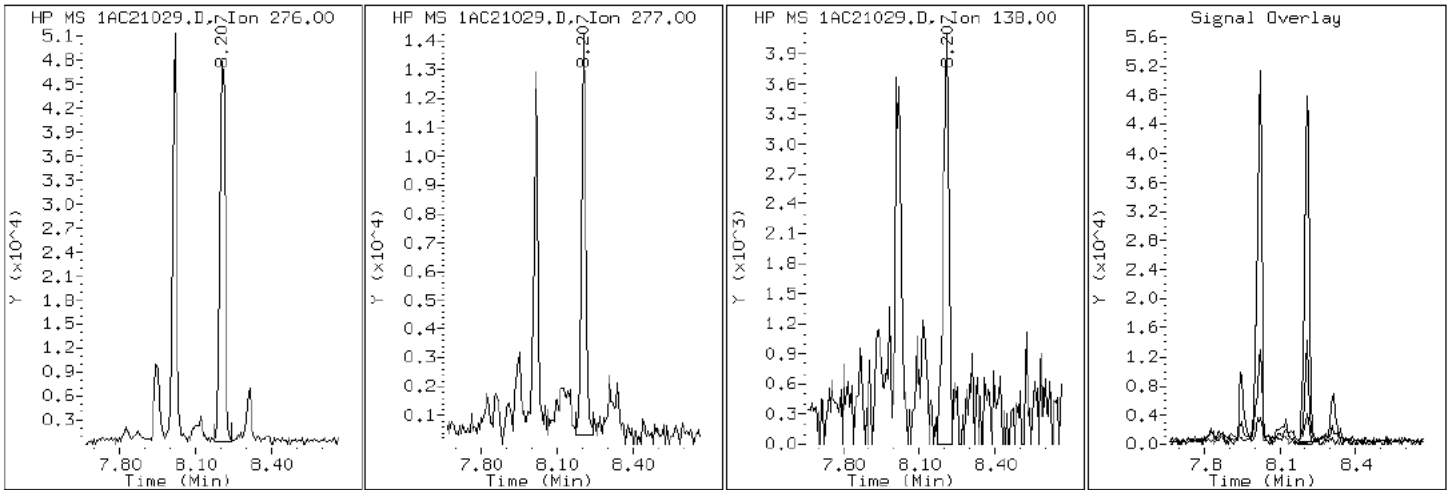
Client ID: CV0843B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-9-a

Operator: SCC

26 Benzo(g,h,i)perylene





Data File: 1AC21029.D

Date: 21-MAR-2013 22:15

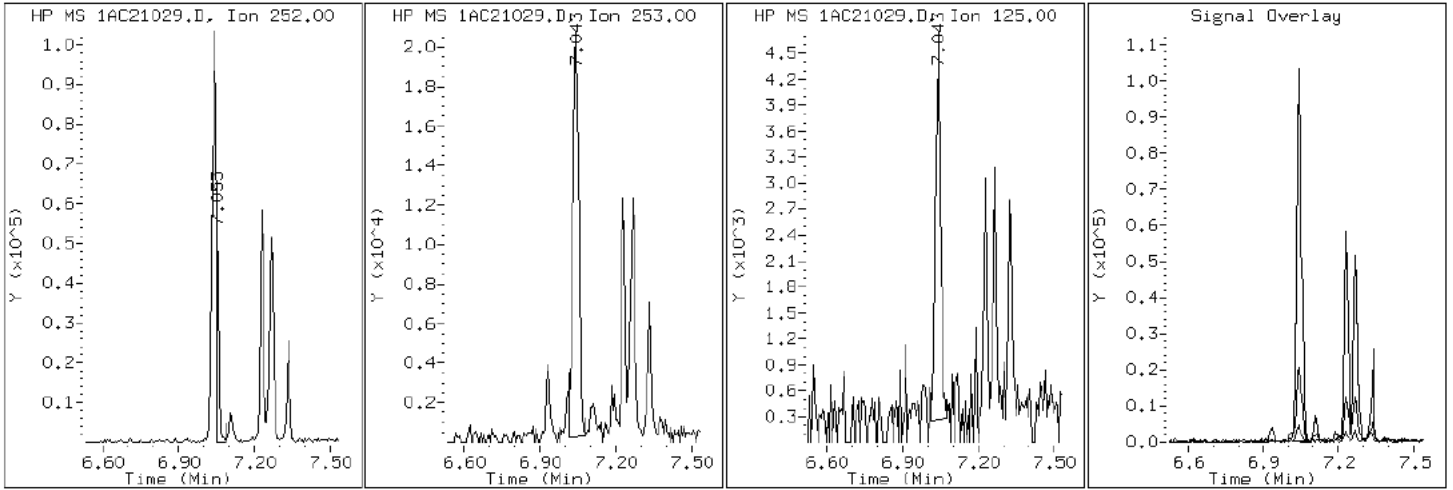
Client ID: CV0843B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-9-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC21029.D

Date: 21-MAR-2013 22:15

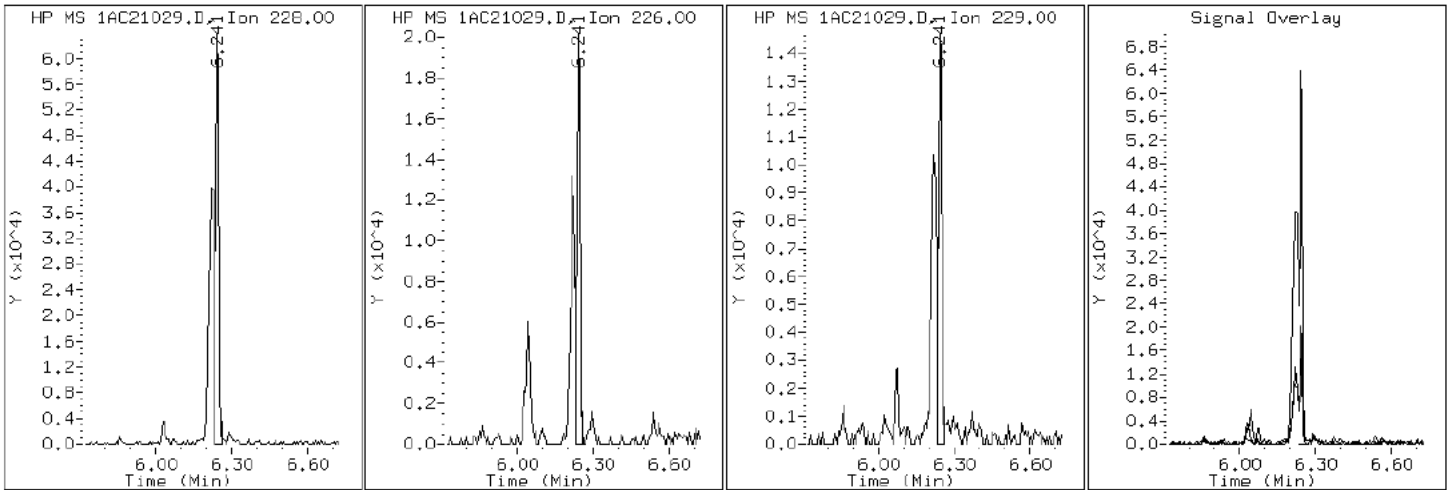
Client ID: CV0843B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-9-a

Operator: SCC

19 Chrysene



Data File: 1AC21029.D

Date: 21-MAR-2013 22:15

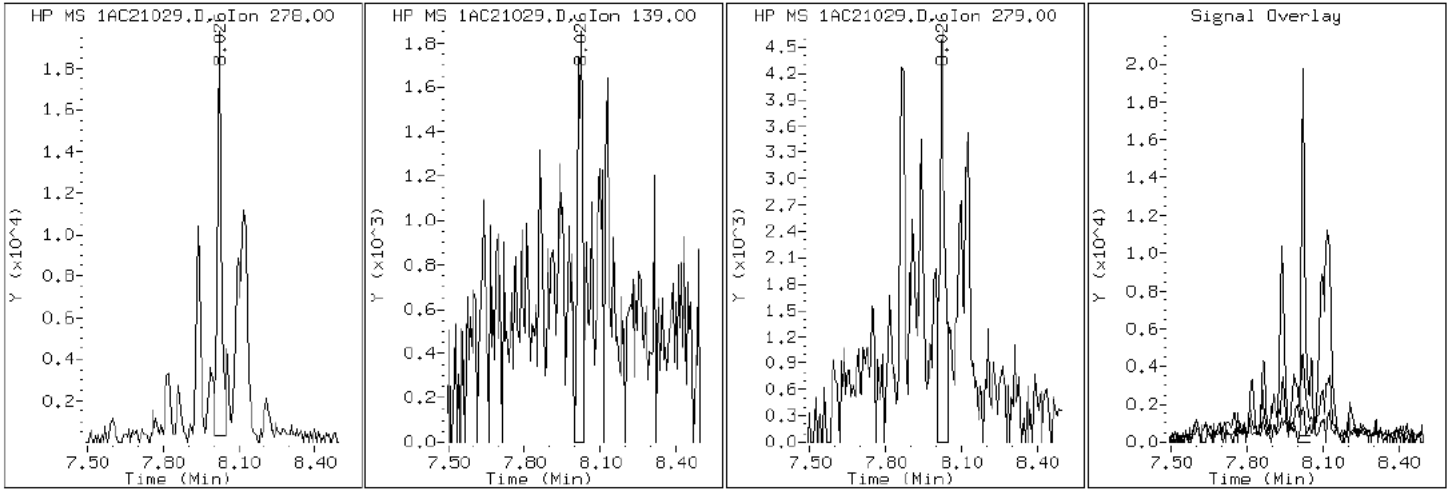
Client ID: CV0843B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-9-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC21029.D

Date: 21-MAR-2013 22:15

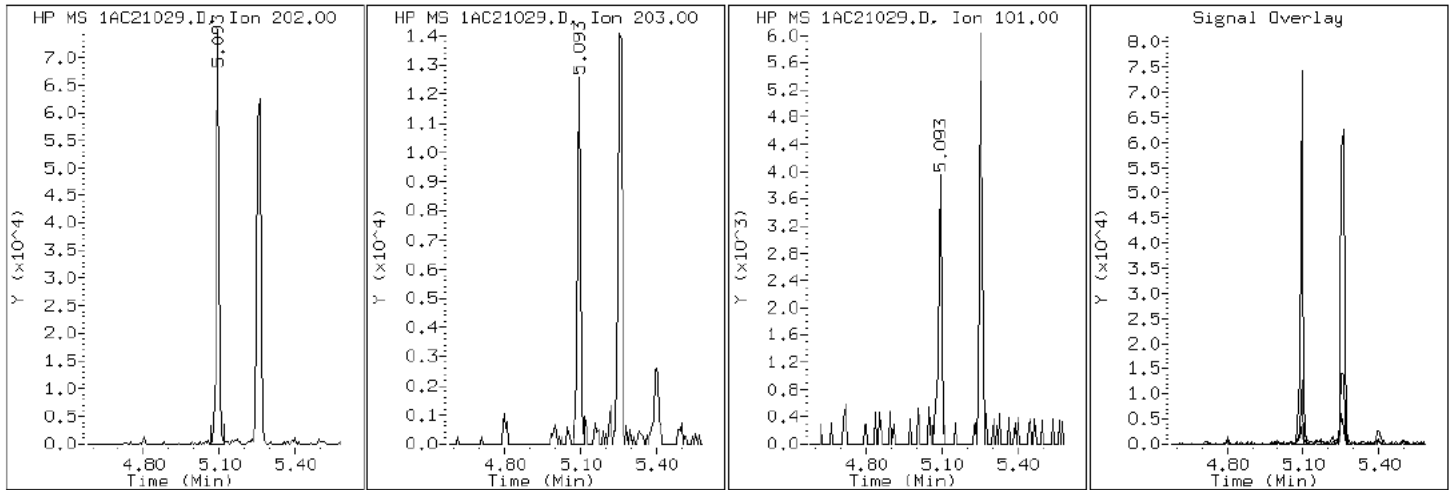
Client ID: CV0843B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-9-a

Operator: SCC

15 Fluoranthene



Data File: 1AC21029.D

Date: 21-MAR-2013 22:15

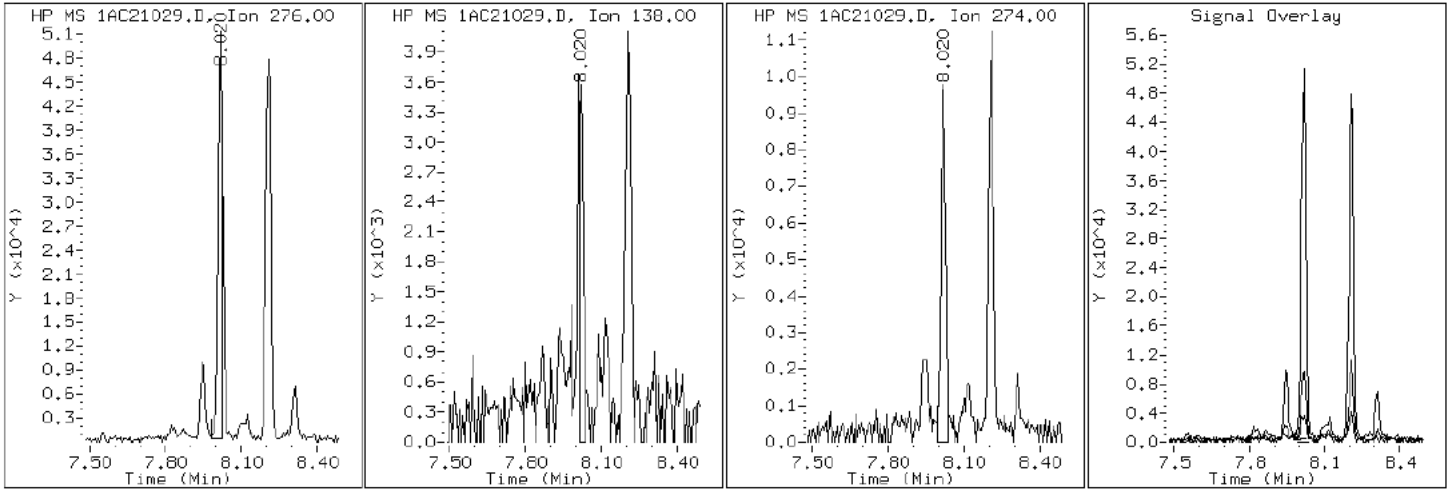
Client ID: CV0843B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-9-a

Operator: SCC

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



Data File: 1AC21029.D

Date: 21-MAR-2013 22:15

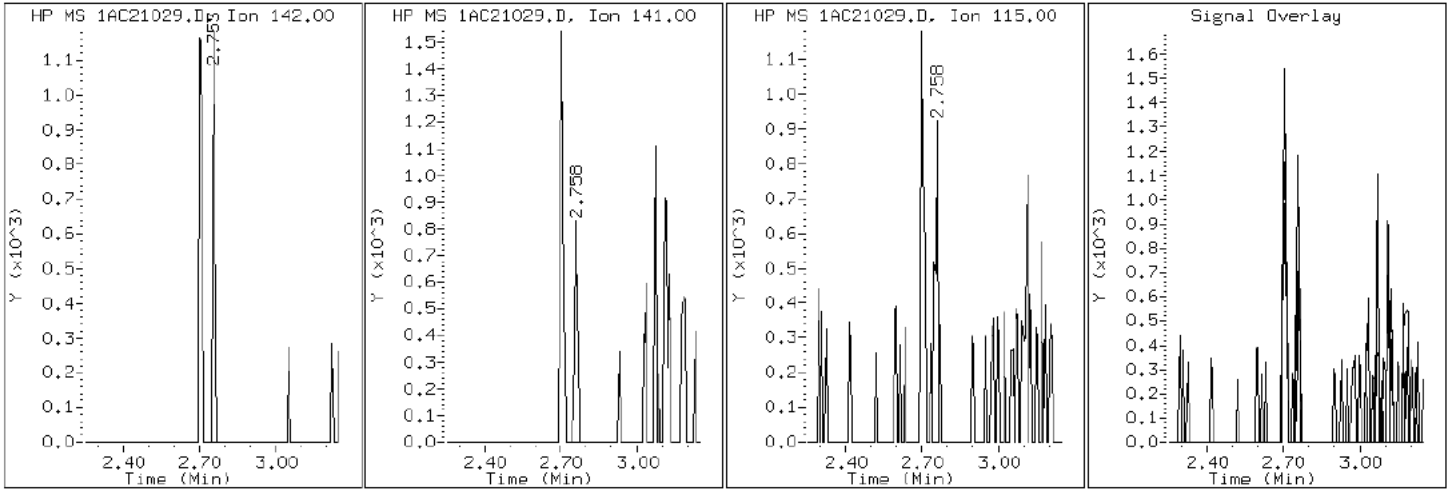
Client ID: CV0843B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-9-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC21029.D

Date: 21-MAR-2013 22:15

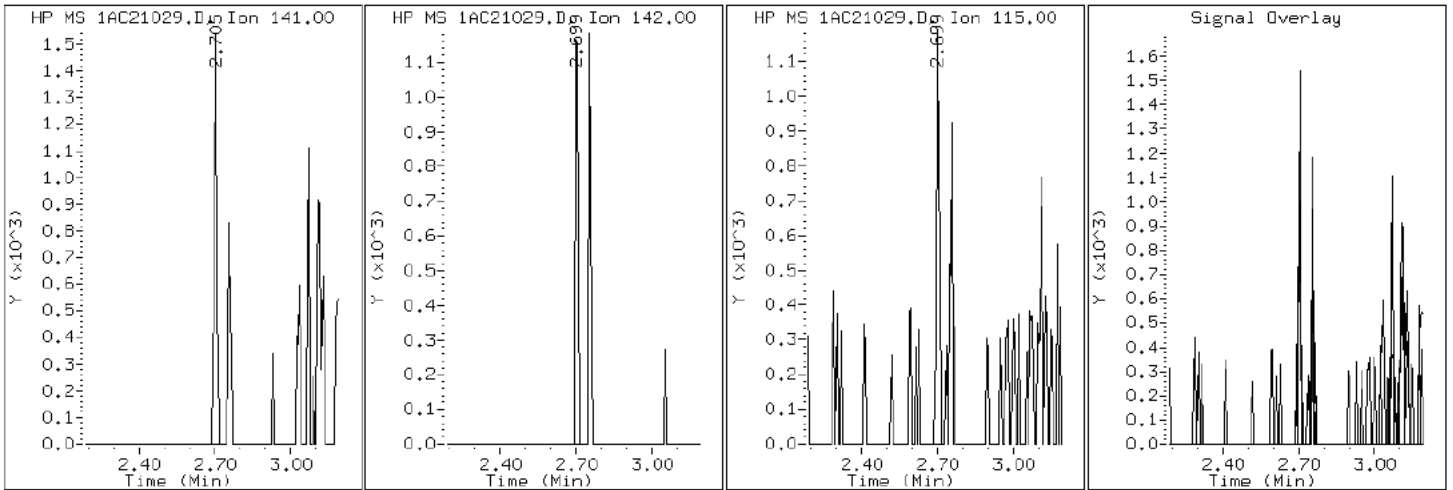
Client ID: CV0843B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-9-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC21029.D

Date: 21-MAR-2013 22:15

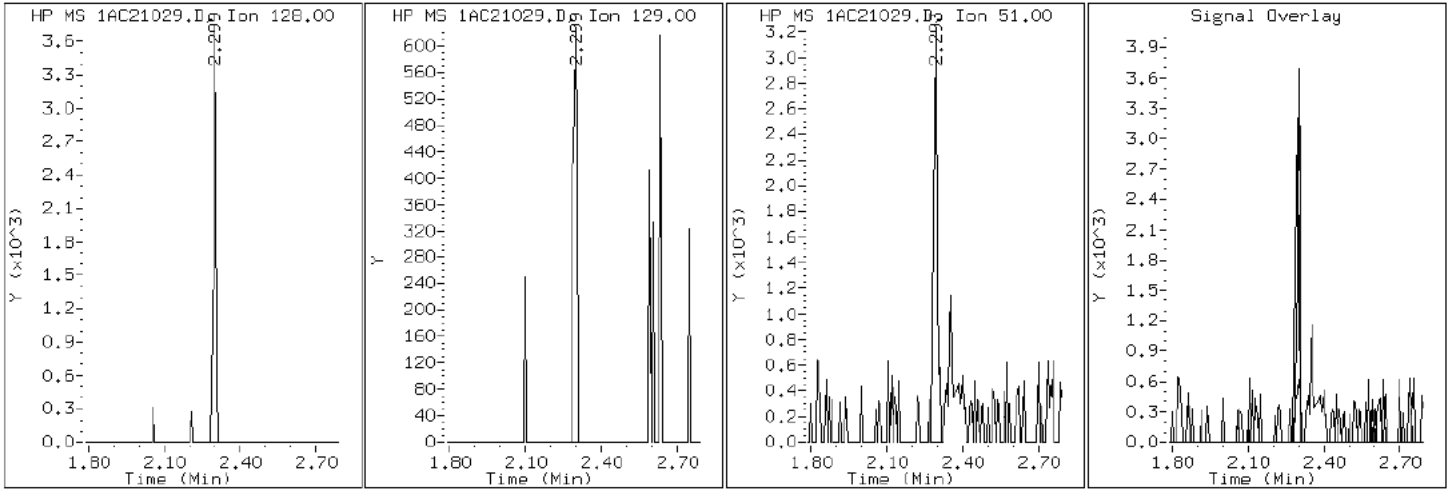
Client ID: CV0843B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-9-a

Operator: SCC

2 Naphthalene





Data File: 1AC21029.D

Date: 21-MAR-2013 22:15

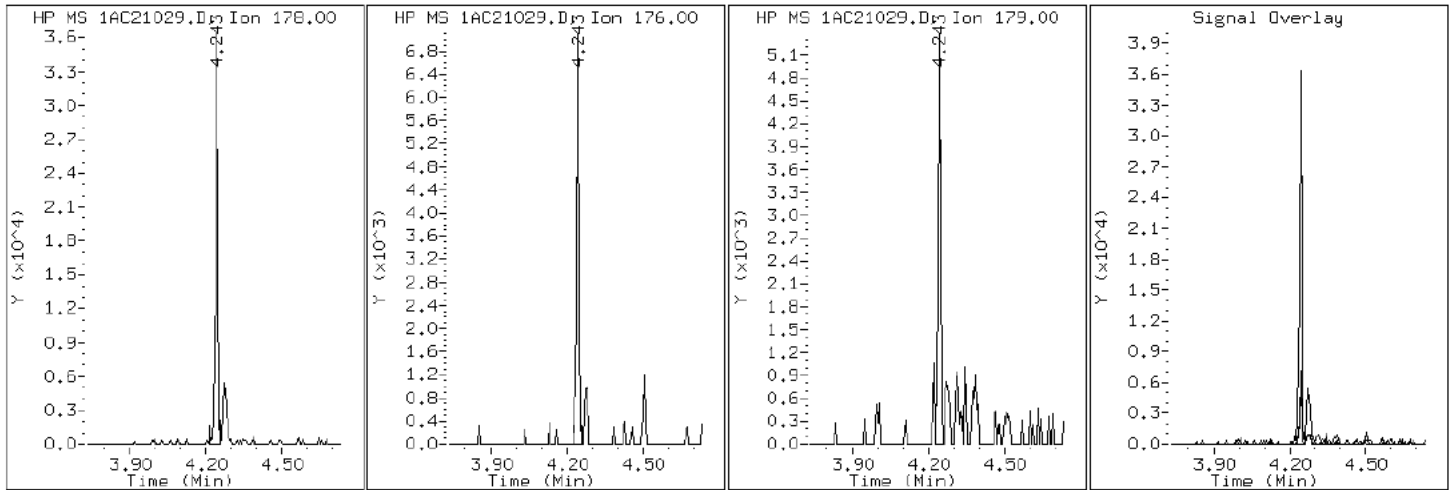
Client ID: CV0843B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-9-a

Operator: SCC

11 Phenanthrene



Data File: 1AC21029.D

Date: 21-MAR-2013 22:15

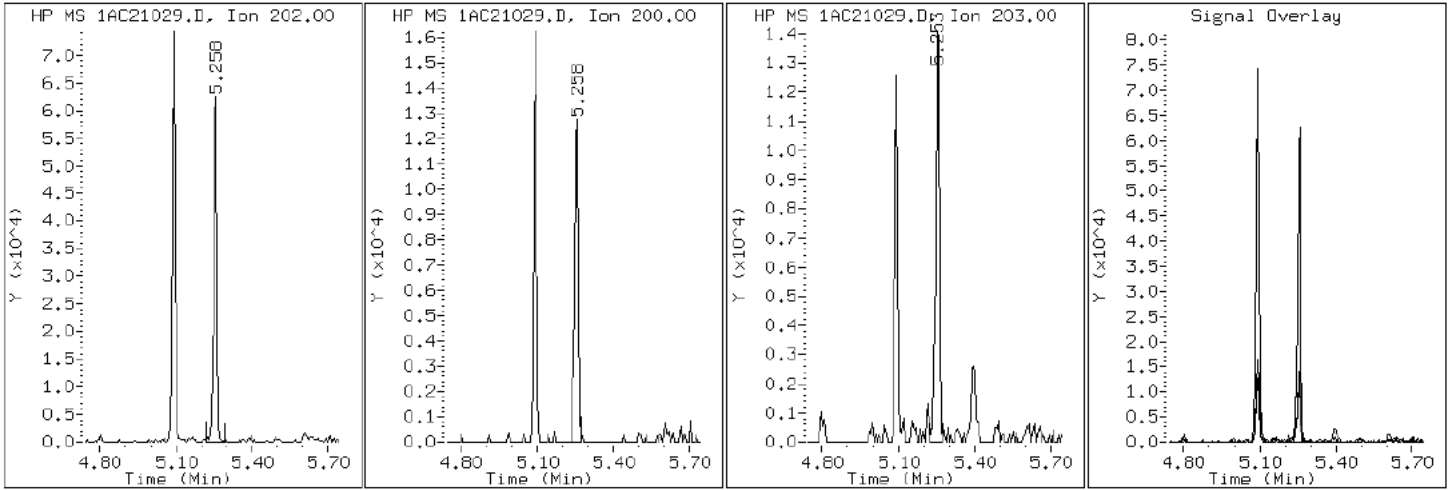
Client ID: CV0843B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-9-a

Operator: SCC

16 Pyrene

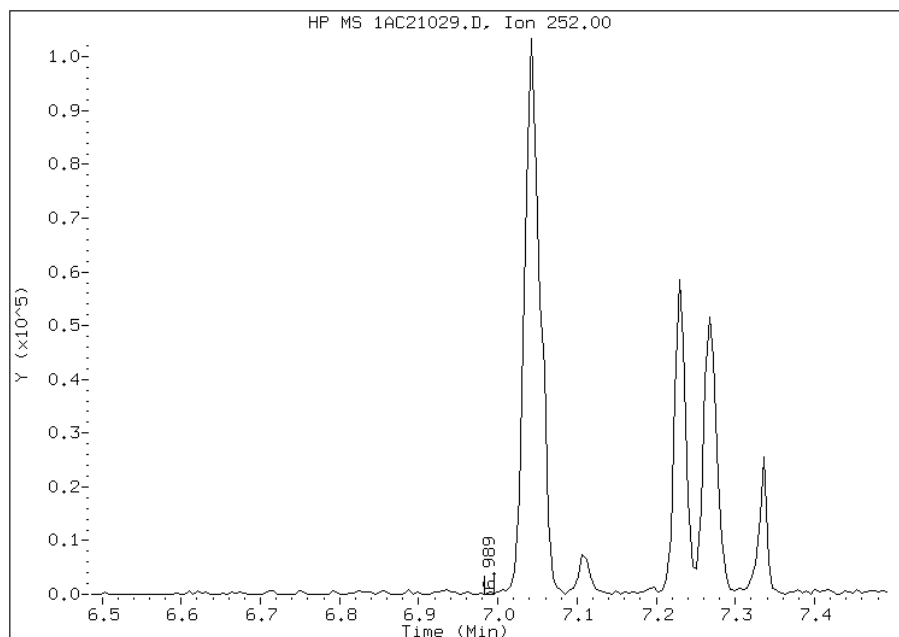


# Manual Integration Report

Data File: 1AC21029.D  
Inj. Date and Time: 21-MAR-2013 22:15  
Instrument ID: BSMA5973.i  
Client ID: CV0843B-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 03/26/2013

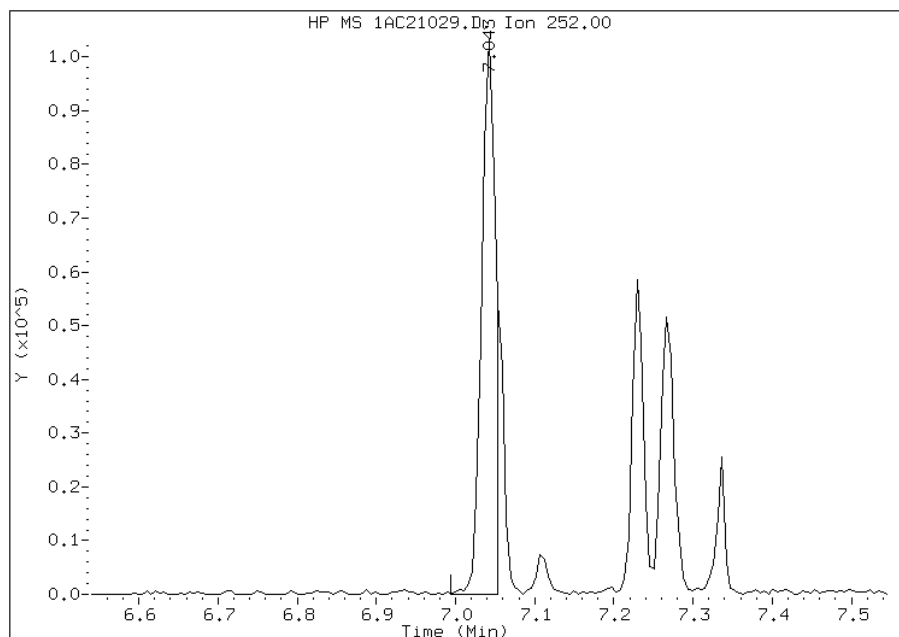
## Processing Integration Results

RT: 6.99  
Response: 239  
Amount: 1  
Conc: 434



## Manual Integration Results

RT: 7.04  
Response: 126035  
Amount: 8  
Conc: 3020



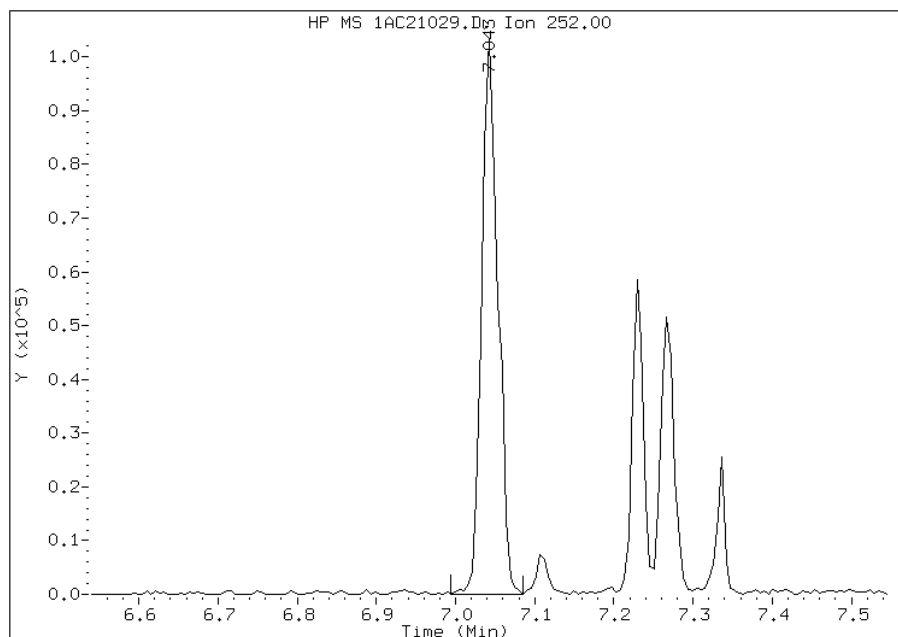
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:46  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AC21029.D  
Inj. Date and Time: 21-MAR-2013 22:15  
Instrument ID: BSMA5973.i  
Client ID: CV0843B-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 03/26/2013

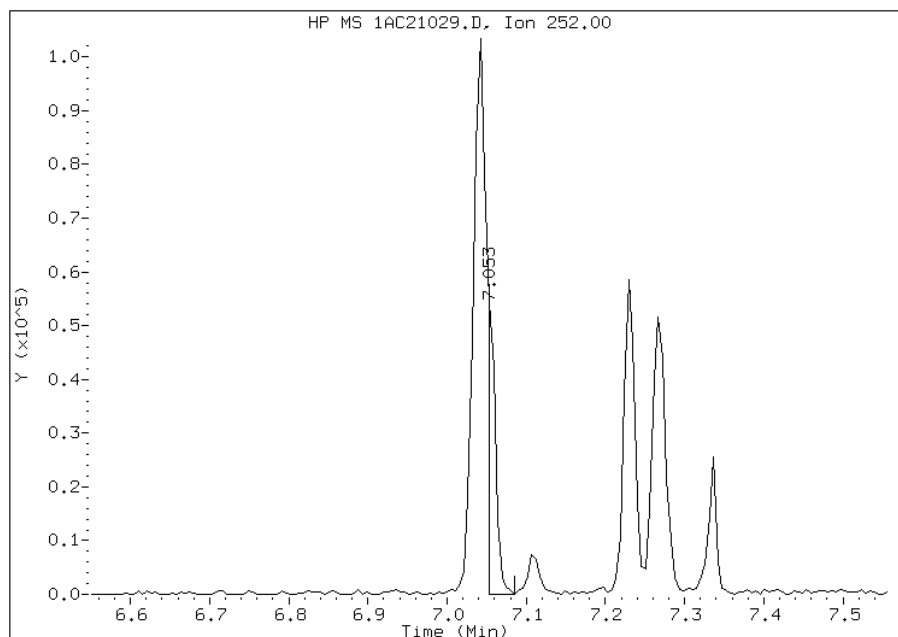
## Processing Integration Results

RT: 7.04  
Response: 145669  
Amount: 9  
Conc: 3059



## Manual Integration Results

RT: 7.05  
Response: 36839  
Amount: 2  
Conc: 774



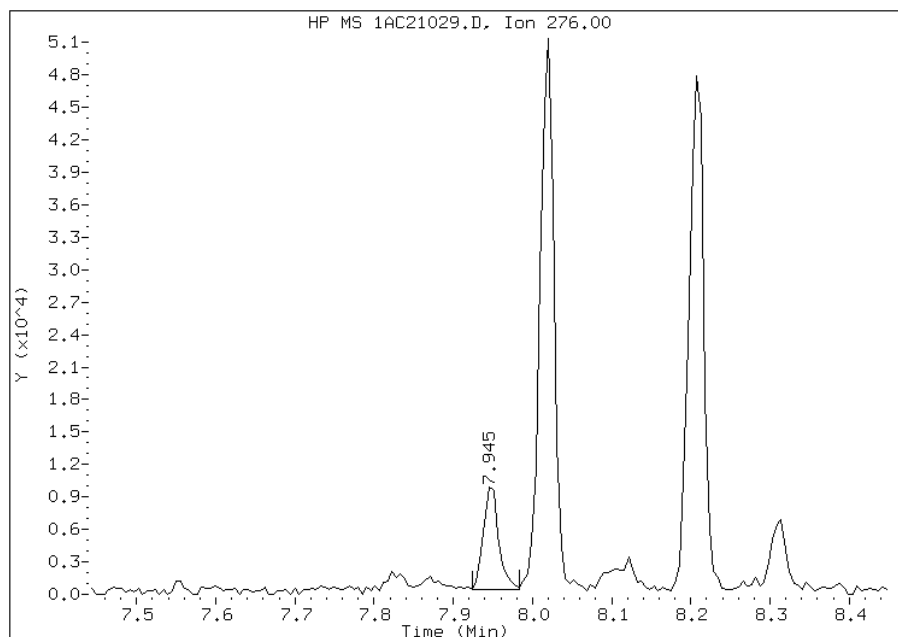
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:46  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AC21029.D  
Inj. Date and Time: 21-MAR-2013 22:15  
Instrument ID: BSMA5973.i  
Client ID: CV0843B-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/26/2013

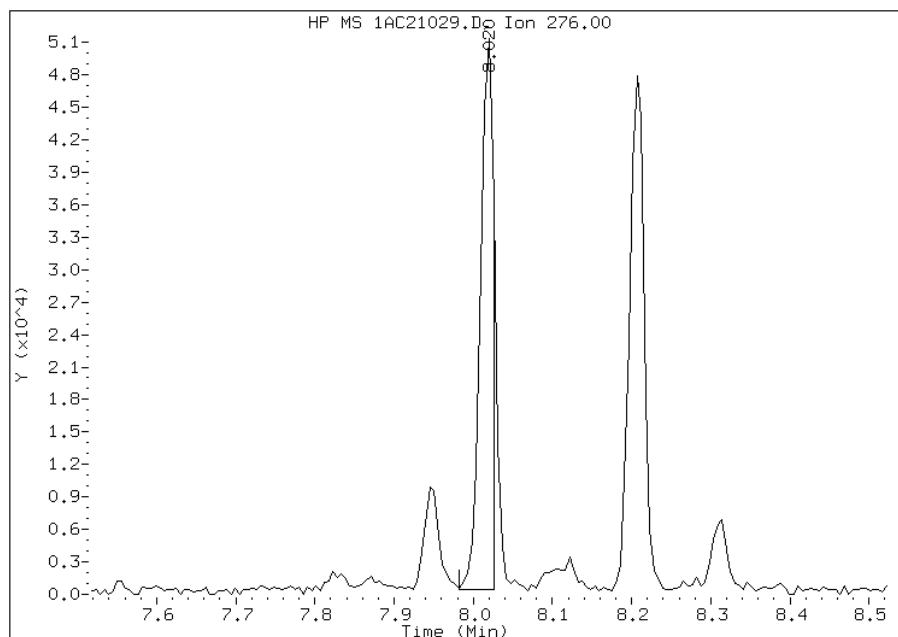
## Processing Integration Results

RT: 7.95  
Response: 12523  
Amount: 1  
Conc: 335



## Manual Integration Results

RT: 8.02  
Response: 57465  
Amount: 4  
Conc: 1537



Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:47  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: CV0826A-CS-SP Lab Sample ID: 680-88420-10  
 Matrix: Solid Lab File ID: 1AC21030.D  
 Analysis Method: 8270C LL Date Collected: 03/14/2013 10:40  
 Extract. Method: 3546 Date Extracted: 03/21/2013 08:38  
 Sample wt/vol: 15.04(g) Date Analyzed: 03/21/2013 22:30  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 20.5 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135630 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	33	J	50	6.3
120-12-7	Anthracene	27		11	5.3
56-55-3	Benzo[a]anthracene	98		10	4.9
50-32-8	Benzo[a]pyrene	53		13	6.5
205-99-2	Benzo[b]fluoranthene	190		15	7.6
191-24-2	Benzo[g,h,i]perylene	60		25	5.5
207-08-9	Benzo[k]fluoranthene	23		10	4.5
218-01-9	Chrysene	150		11	5.6
53-70-3	Dibenz(a,h)anthracene	27		25	5.1
206-44-0	Fluoranthene	110		25	5.0
86-73-7	Fluorene	33		25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	36		25	8.9
90-12-0	1-Methylnaphthalene	180		50	5.5
91-57-6	2-Methylnaphthalene	190		50	8.9
91-20-3	Naphthalene	71		50	5.5
85-01-8	Phenanthrene	220		10	4.9
129-00-0	Pyrene	100		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	53		30-130

TestAmerica Laboratories

Semivolatle 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\1AC21030.D  
 Lab Smp Id: 680-88420-A-10-A Client Smp ID: CV0826A-CS-SP  
 Inj Date : 21-MAR-2013 22:30  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-88420-a-10-a  
 Misc Info : 680-88420-A-10-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\a-bFASTPAHi-m.m  
 Meth Date : 21-Mar-2013 17:07 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.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	15.040	Weight Extracted
M	20.463	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.293	2.282	(1.000)	527187	40.0000		
* 6 Acenaphthene-d10	164		3.313	3.302	(1.000)	426773	40.0000		
* 10 Phenanthrene-d10	188		4.232	4.221	(1.000)	578781	40.0000		
\$ 14 o-Terphenyl	230		4.504	4.499	(1.064)	39661	5.29230	442.4120	
* 18 Chrysene-d12	240		6.235	6.208	(1.000)	510334	40.0000		
* 23 Perylene-d12	264		7.330	7.292	(1.000)	685446	40.0000	(H)	
2 Naphthalene	128		2.298	2.292	(1.002)	10332	0.84829	70.9132	
3 2-Methylnaphthalene	141		2.704	2.693	(1.179)	10368	2.26847	189.6339	
4 1-Methylnaphthalene	142		2.758	2.752	(1.203)	15407	2.19986	183.8981	
5 Acenaphthylene	152		3.228	3.216	(0.974)	3468	0.39362	32.9050	
9 Fluorene	166		3.634	3.628	(1.097)	1929	0.39051	32.6445(Q)	
11 Phenanthrene	178		4.243	4.237	(1.003)	39359	2.68313	224.2977	
12 Anthracene	178		4.280	4.269	(1.011)	4539	0.31912	26.6768	
13 Carbazole	167		4.440	4.424	(1.049)	2544	0.20406	17.0589	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.097	5.081 (1.204)		18684	1.28853	107.7152
16 Pyrene	202	5.258	5.246 (0.843)		17965	1.22775	102.6343
17 Benzo(a)anthracene	228	6.225	6.197 (0.998)		14822	1.16991	97.7995(QM)
19 Chrysene	228	6.246	6.224 (1.002)		23410	1.77109	148.0551(M)
20 Benzo(b)fluoranthene	252	7.037	7.015 (0.960)		19534	2.23693	186.9969(MH)
21 Benzo(k)fluoranthene	252	7.053	7.036 (0.962)		5104	0.27605	23.0766(QMH)
22 Benzo(a)pyrene	252	7.272	7.244 (0.992)		10243	0.63676	53.2306(H)
24 Indeno(1,2,3-cd)pyrene	276	8.020	7.987 (1.094)		6323	0.43563	36.4170(MH)
25 Dibenzo(a,h)anthracene	278	8.030	7.998 (1.095)		4707	0.32721	27.3533(H)
26 Benzo(g,h,i)perylene	276	8.212	8.169 (1.120)		10456	0.71566	59.8259(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: 1AC21030.D

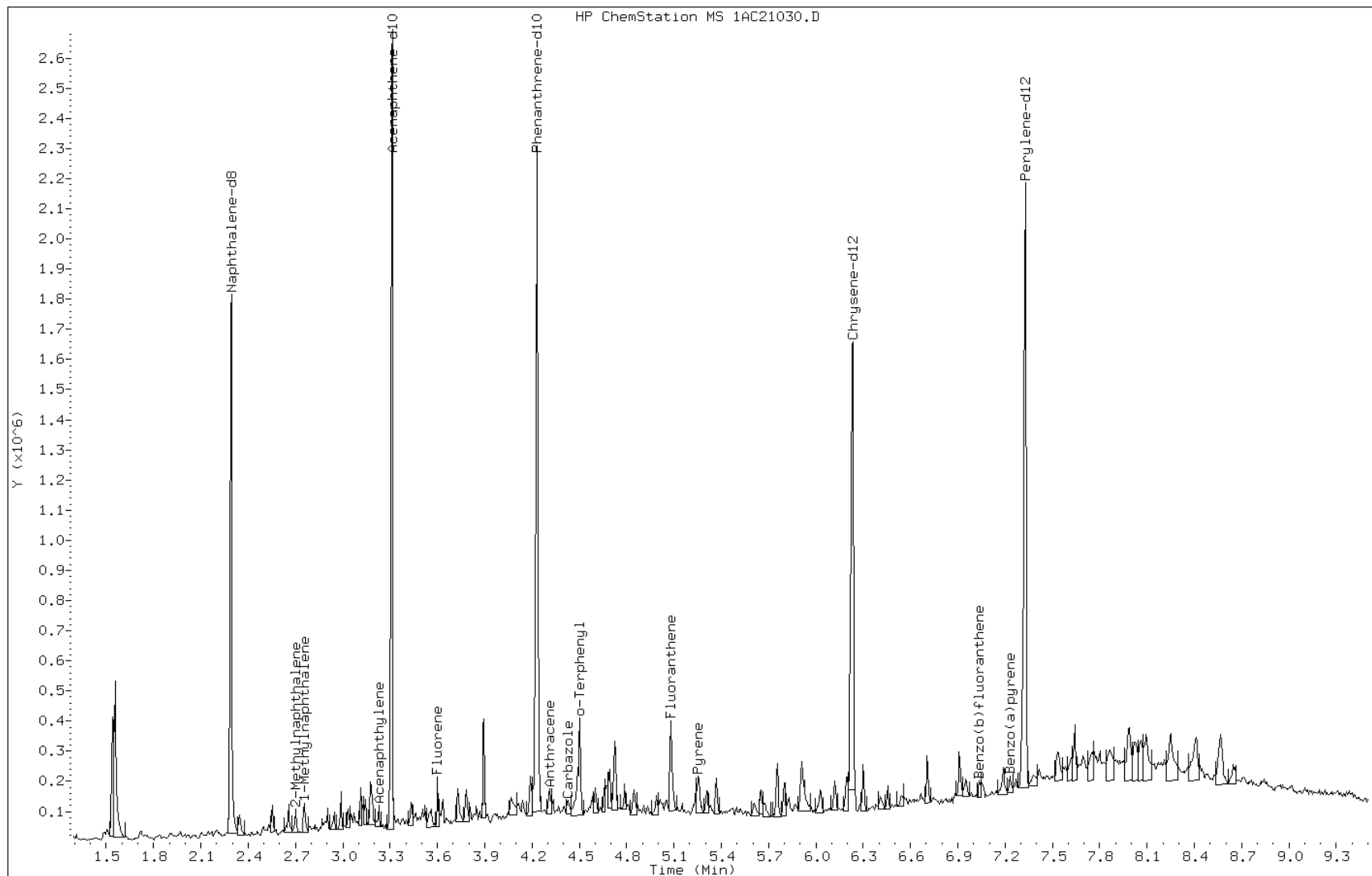
Date: 21-MAR-2013 22:30

Client ID: CV0826A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-10-a

Operator: SCC



Data File: 1AC21030.D

Date: 21-MAR-2013 22:30

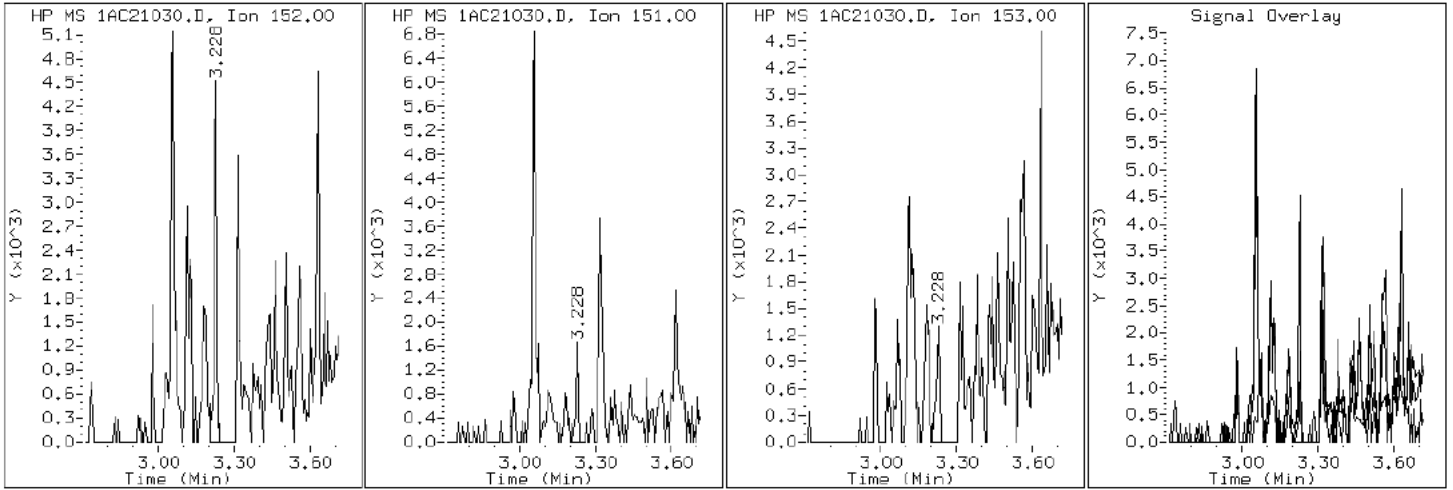
Client ID: CV0826A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-10-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC21030.D

Date: 21-MAR-2013 22:30

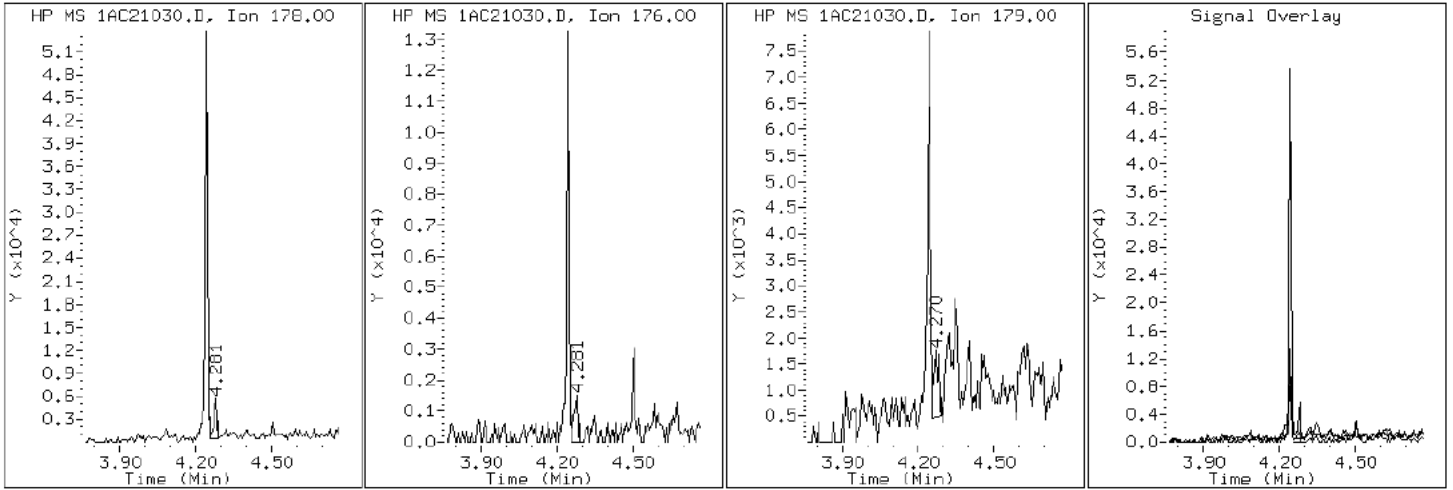
Client ID: CV0826A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-10-a

Operator: SCC

12 Anthracene



Data File: 1AC21030.D

Date: 21-MAR-2013 22:30

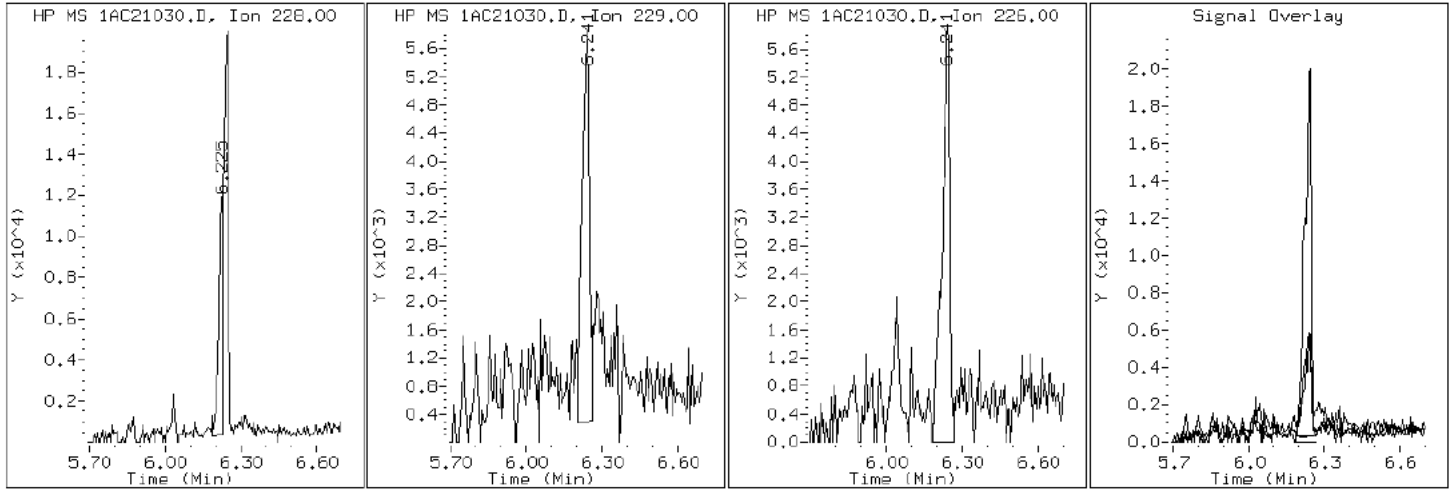
Client ID: CV0826A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-10-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC21030.D

Date: 21-MAR-2013 22:30

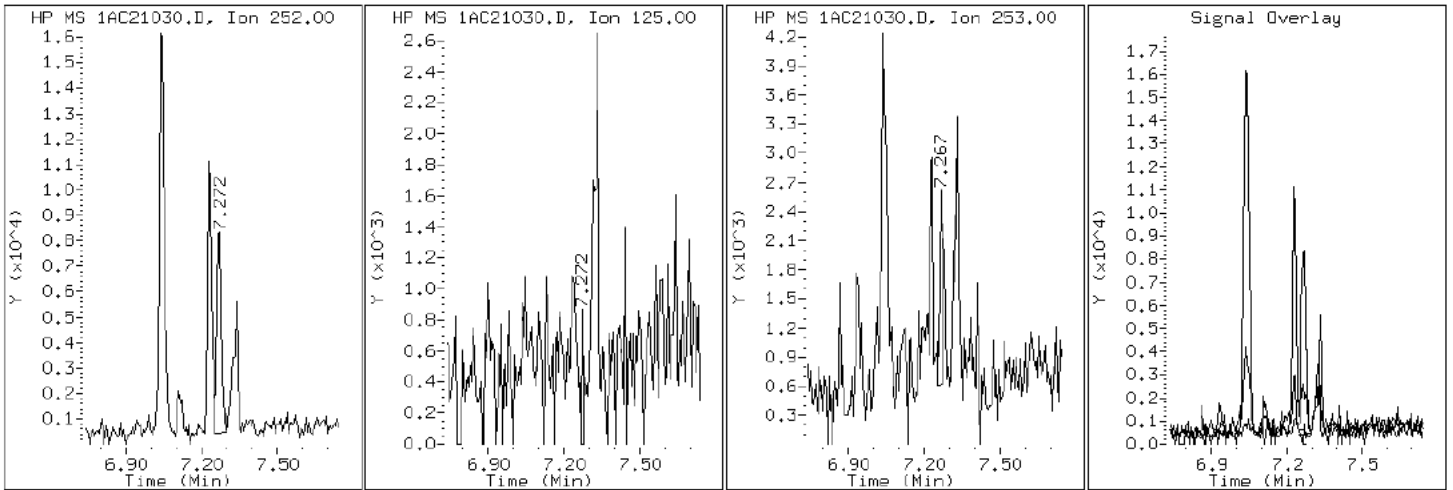
Client ID: CV0826A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-10-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC21030.D

Date: 21-MAR-2013 22:30

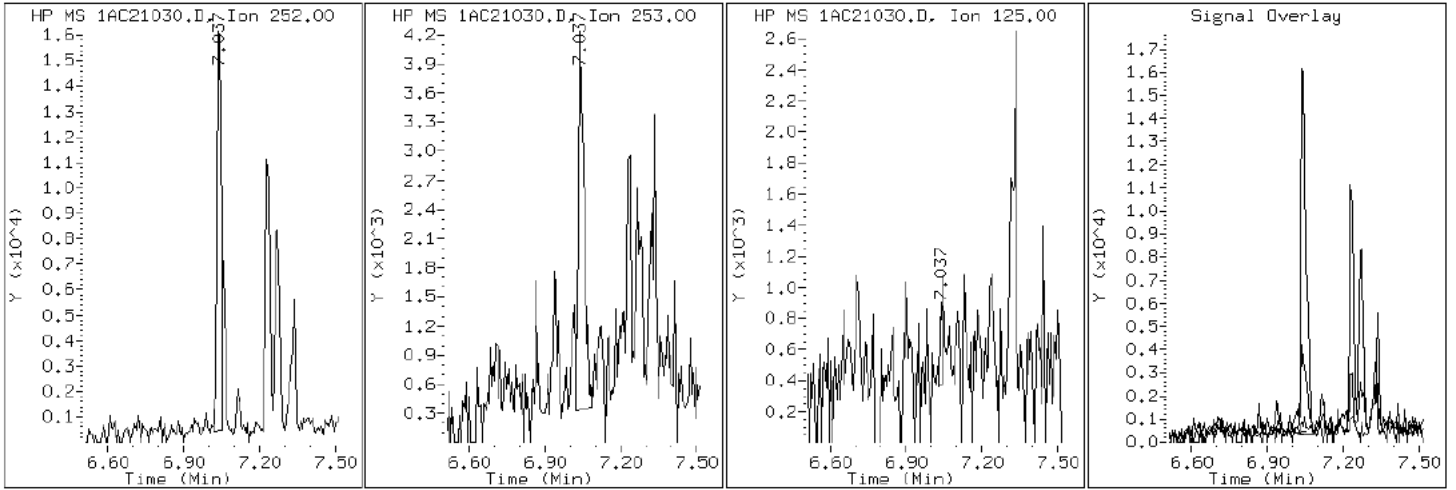
Client ID: CV0826A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-10-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC21030.D

Date: 21-MAR-2013 22:30

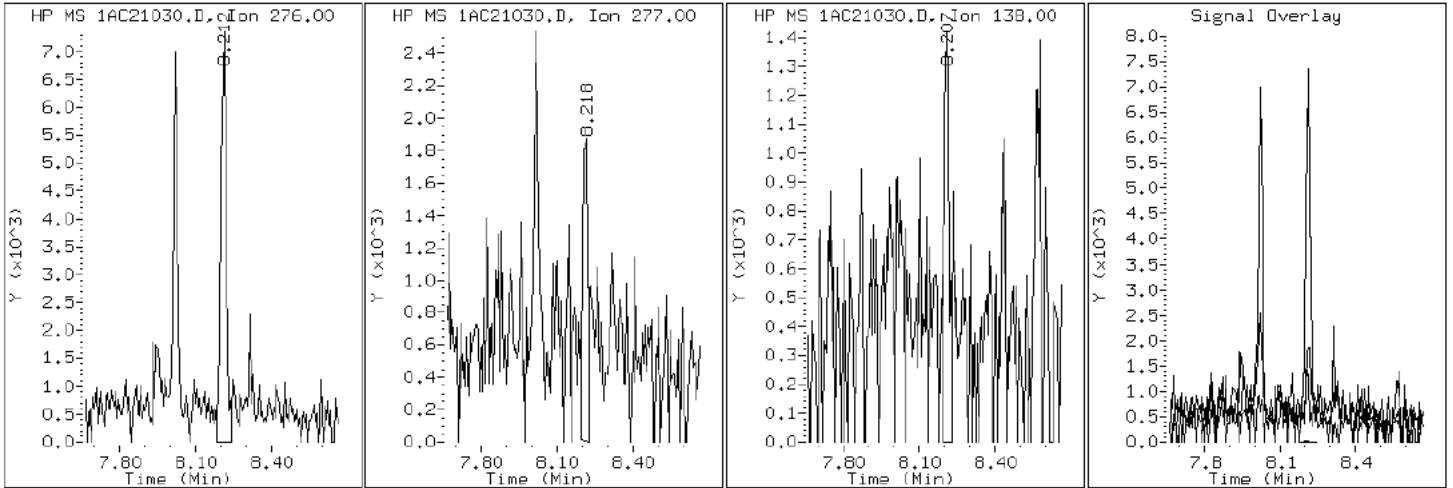
Client ID: CV0826A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-10-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC21030.D

Date: 21-MAR-2013 22:30

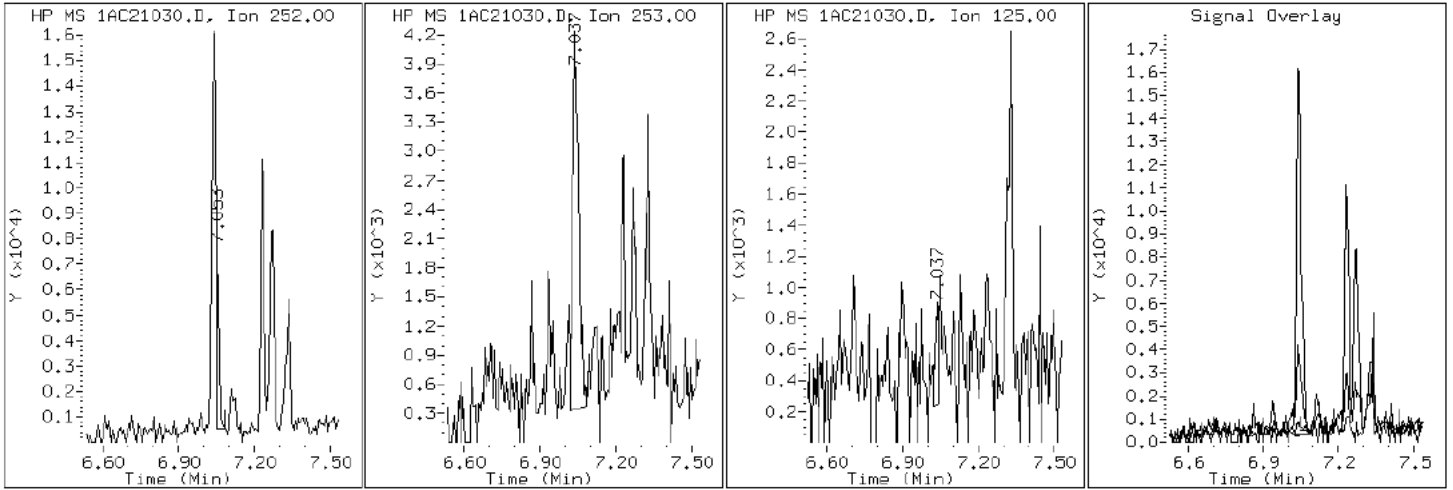
Client ID: CV0826A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-10-a

Operator: SCC

21 Benzo(k)fluoranthene





Data File: 1AC21030.D

Date: 21-MAR-2013 22:30

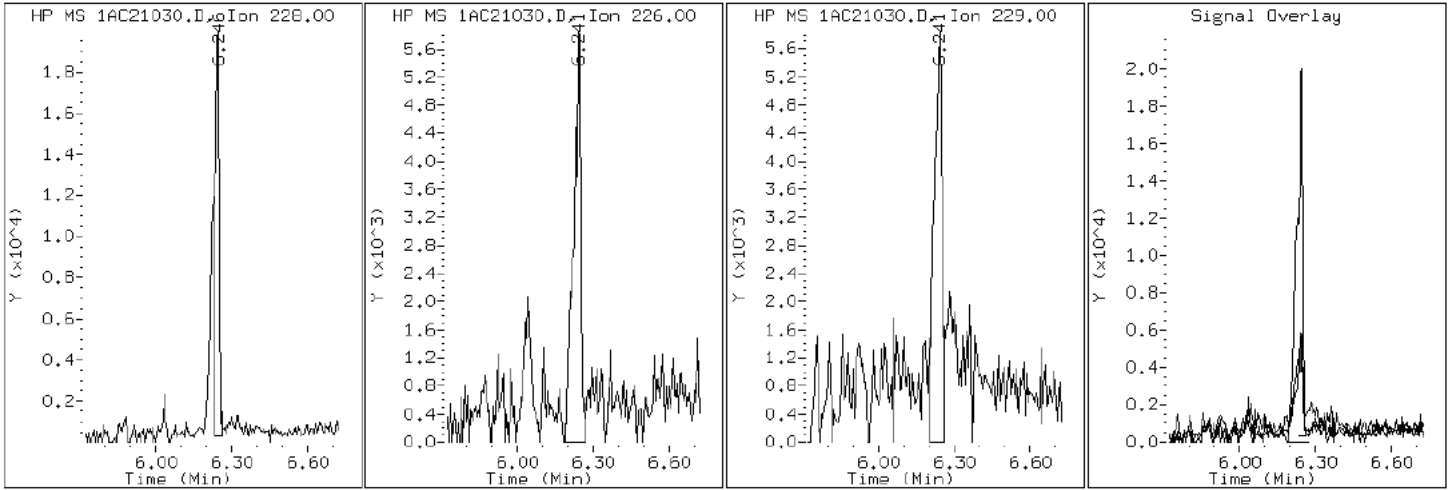
Client ID: CV0826A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-10-a

Operator: SCC

19 Chrysene



Data File: 1AC21030.D

Date: 21-MAR-2013 22:30

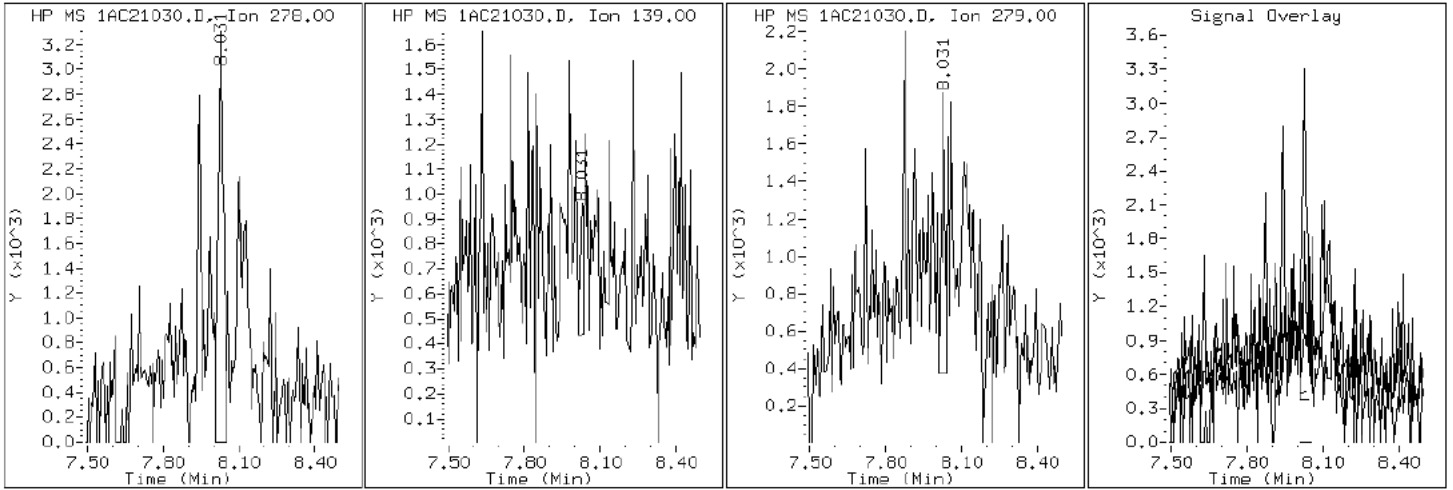
Client ID: CV0826A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-10-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC21030.D

Date: 21-MAR-2013 22:30

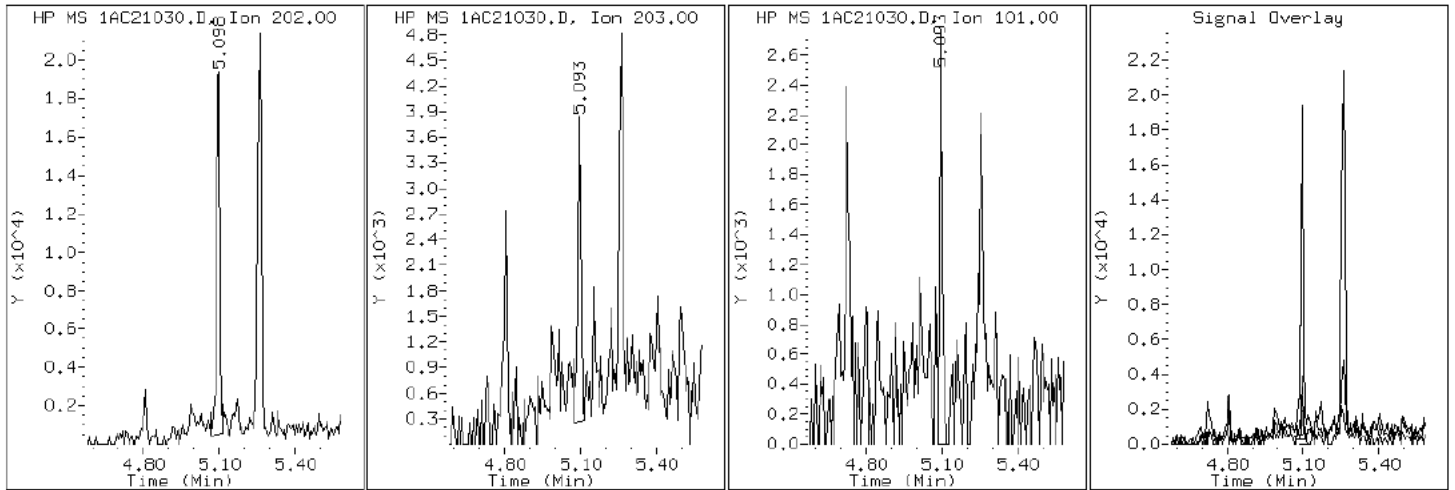
Client ID: CV0826A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-10-a

Operator: SCC

15 Fluoranthene



Data File: 1AC21030.D

Date: 21-MAR-2013 22:30

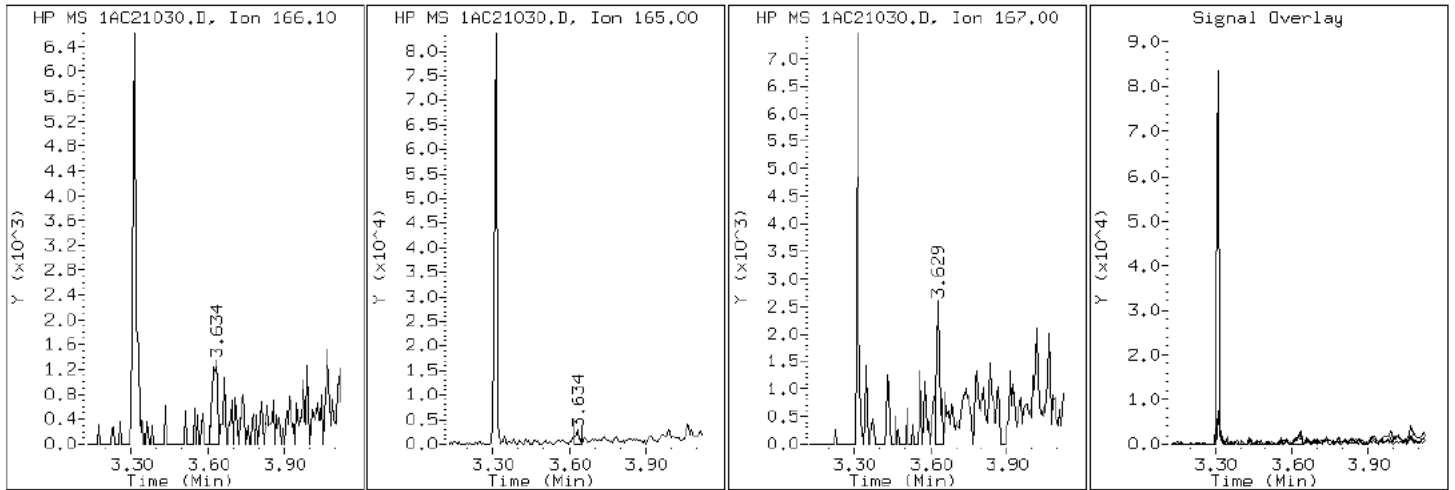
Client ID: CV0826A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-10-a

Operator: SCC

9 Fluorene



Data File: 1AC21030.D

Date: 21-MAR-2013 22:30

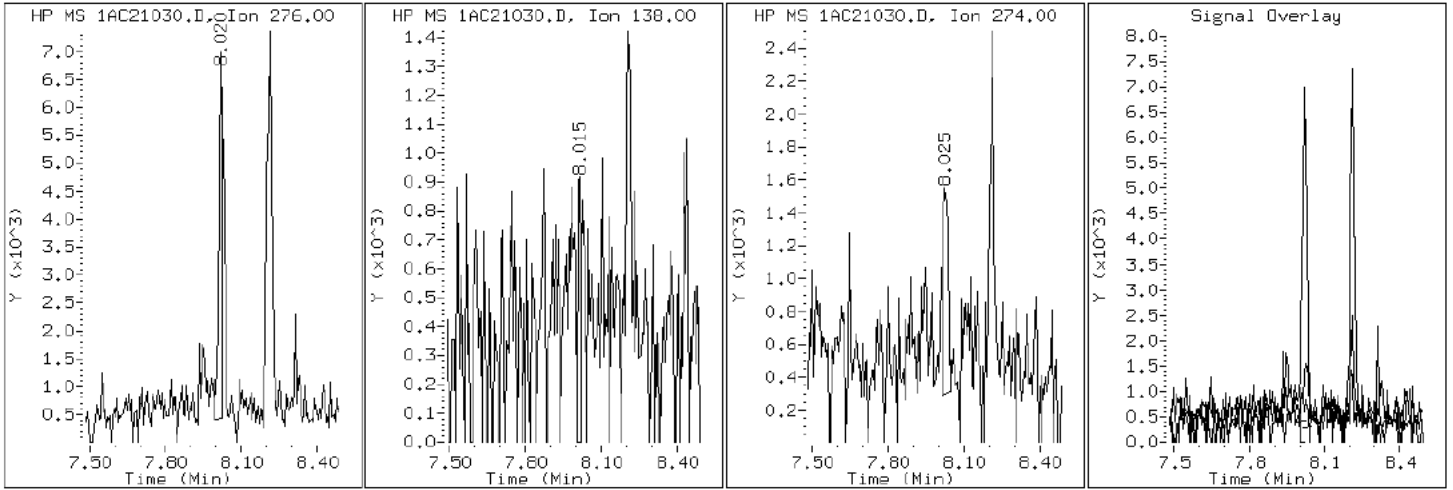
Client ID: CV0826A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-10-a

Operator: SCC

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



Data File: 1AC21030.D

Date: 21-MAR-2013 22:30

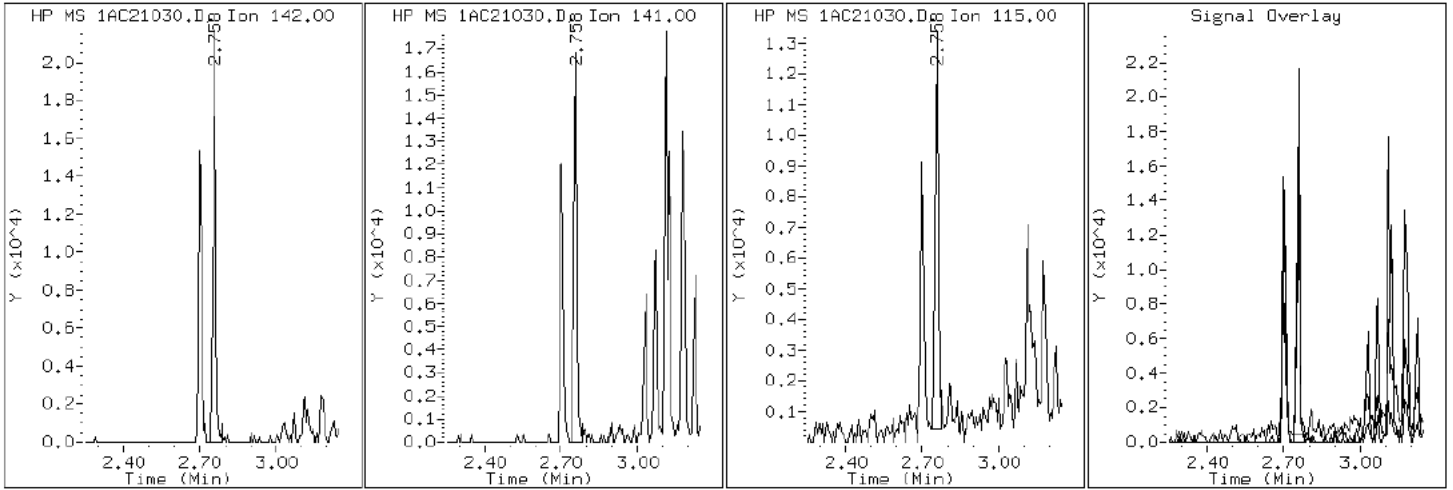
Client ID: CV0826A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-10-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC21030.D

Date: 21-MAR-2013 22:30

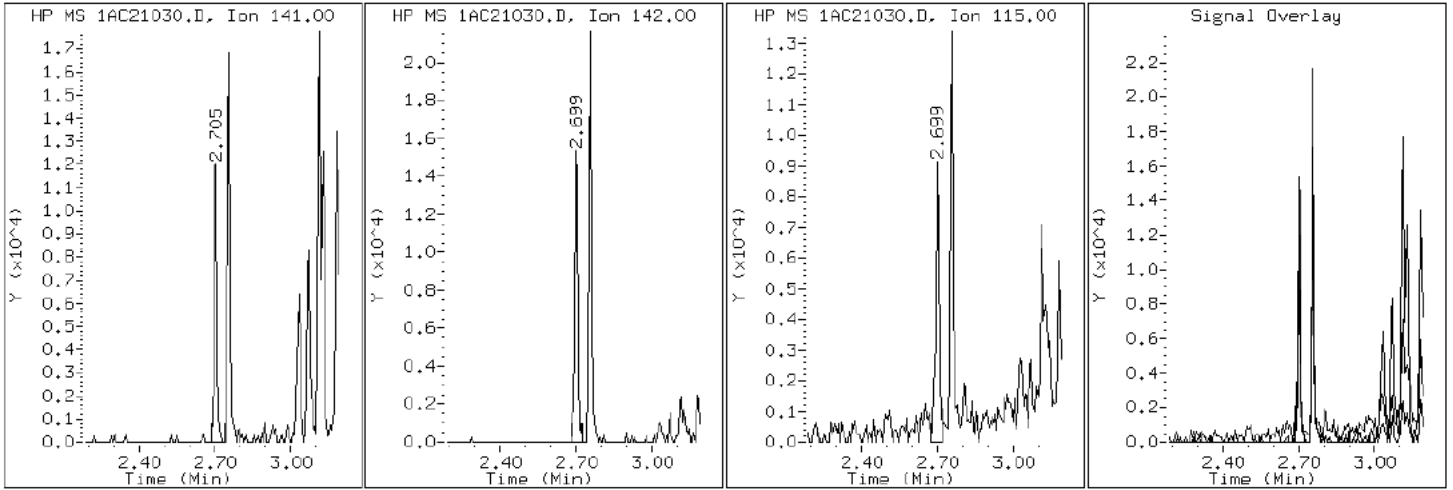
Client ID: CV0826A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-10-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC21030.D

Date: 21-MAR-2013 22:30

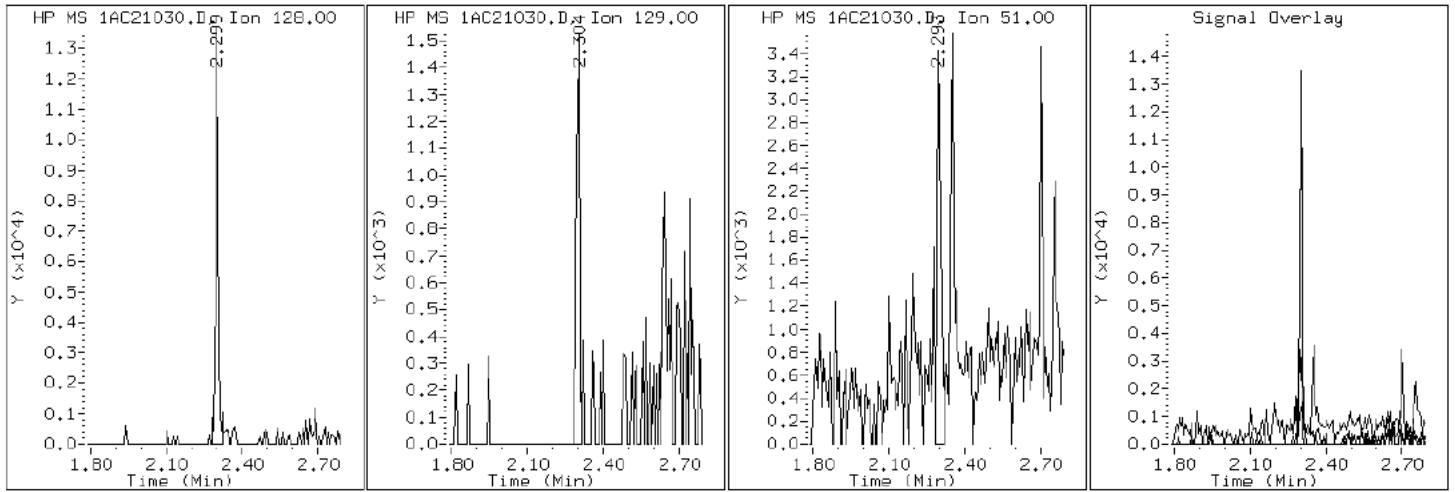
Client ID: CV0826A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-10-a

Operator: SCC

2 Naphthalene





Data File: 1AC21030.D

Date: 21-MAR-2013 22:30

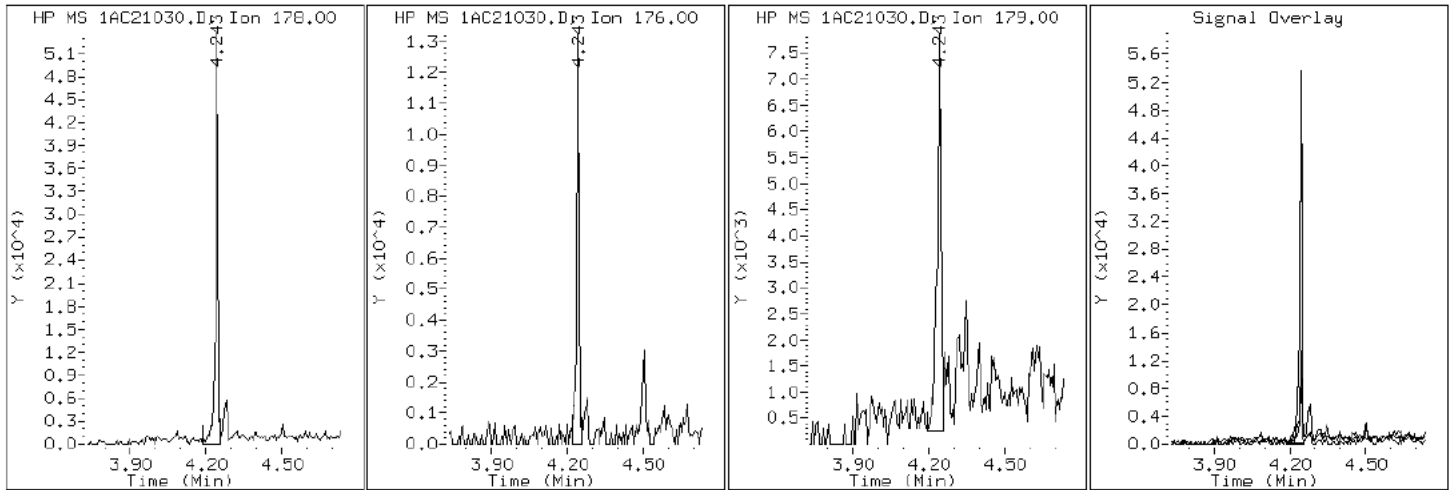
Client ID: CV0826A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-10-a

Operator: SCC

11 Phenanthrene



Data File: 1AC21030.D

Date: 21-MAR-2013 22:30

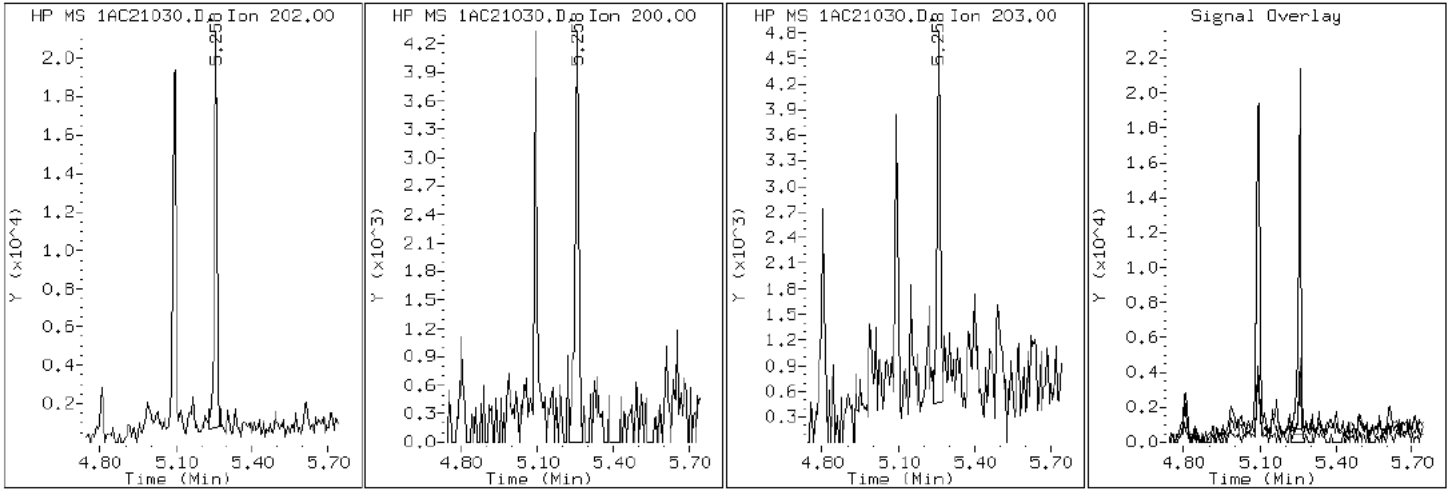
Client ID: CV0826A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-10-a

Operator: SCC

16 Pyrene

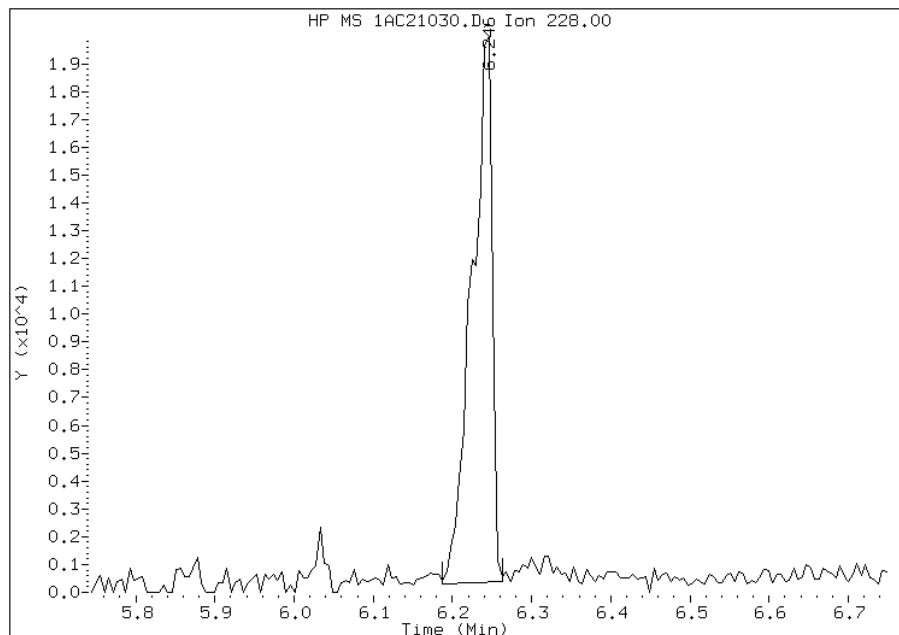


# Manual Integration Report

Data File: 1AC21030.D  
Inj. Date and Time: 21-MAR-2013 22:30  
Instrument ID: BSMA5973.i  
Client ID: CV0826A-CS-SP  
Compound: 17 Benzo(a)anthracene  
CAS #: 56-55-3  
Report Date: 03/26/2013

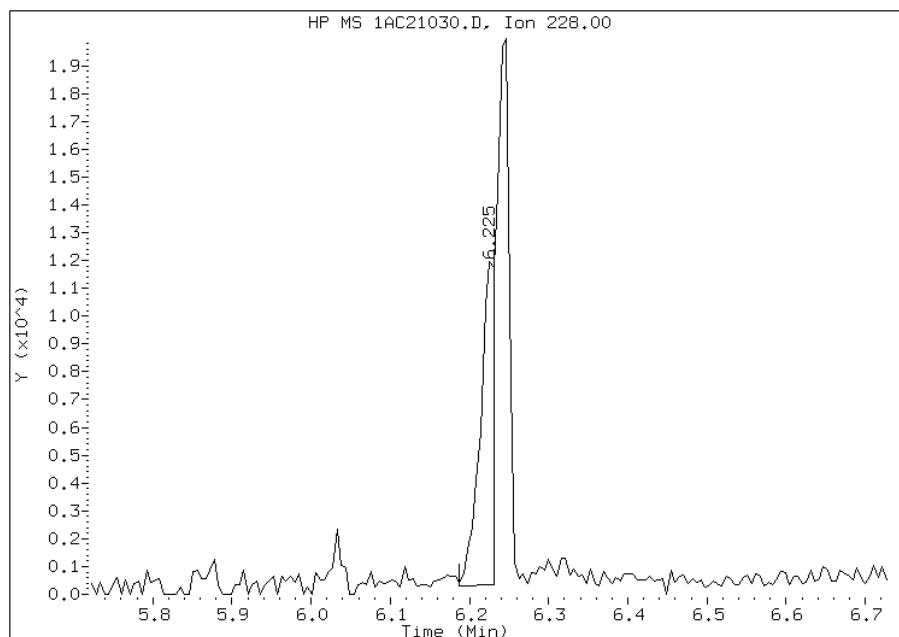
## Processing Integration Results

RT: 6.25  
Response: 34447  
Amount: 2  
Conc: 209



## Manual Integration Results

RT: 6.23  
Response: 14822  
Amount: 1  
Conc: 98



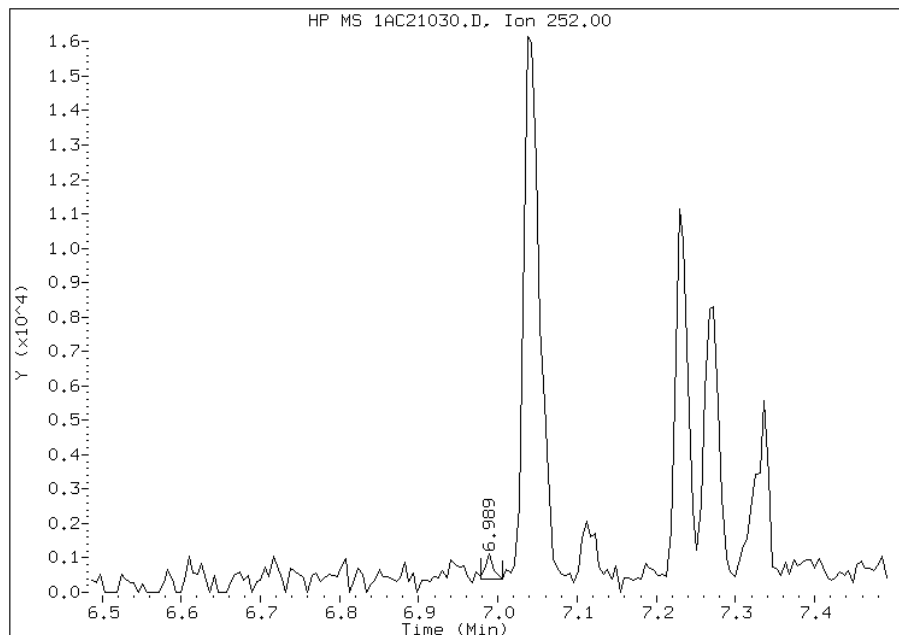
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:48  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AC21030.D  
Inj. Date and Time: 21-MAR-2013 22:30  
Instrument ID: BSMA5973.i  
Client ID: CV0826A-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 03/26/2013

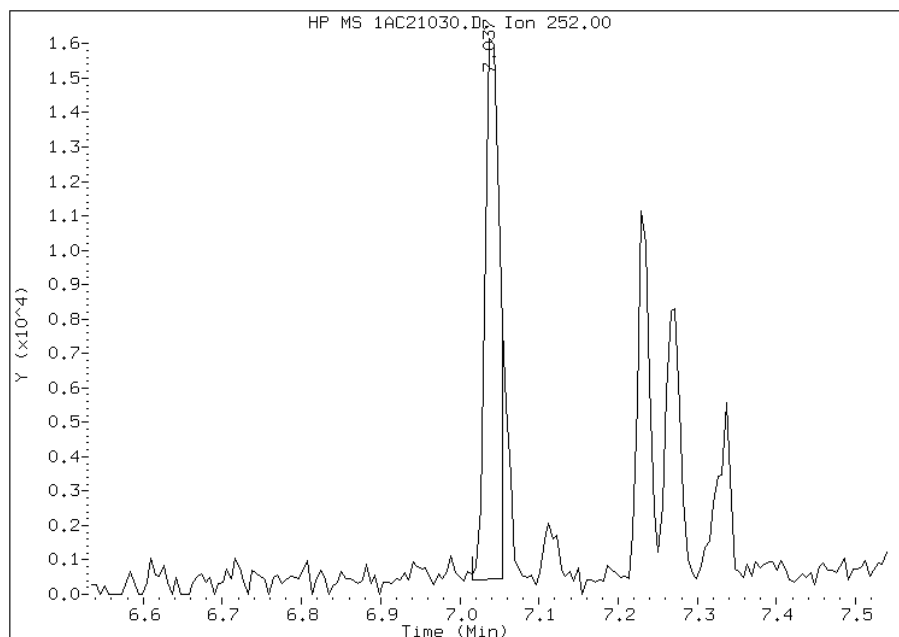
## Processing Integration Results

RT: 6.99  
Response: 491  
Amount: 1  
Conc: 103



## Manual Integration Results

RT: 7.04  
Response: 19534  
Amount: 2  
Conc: 187



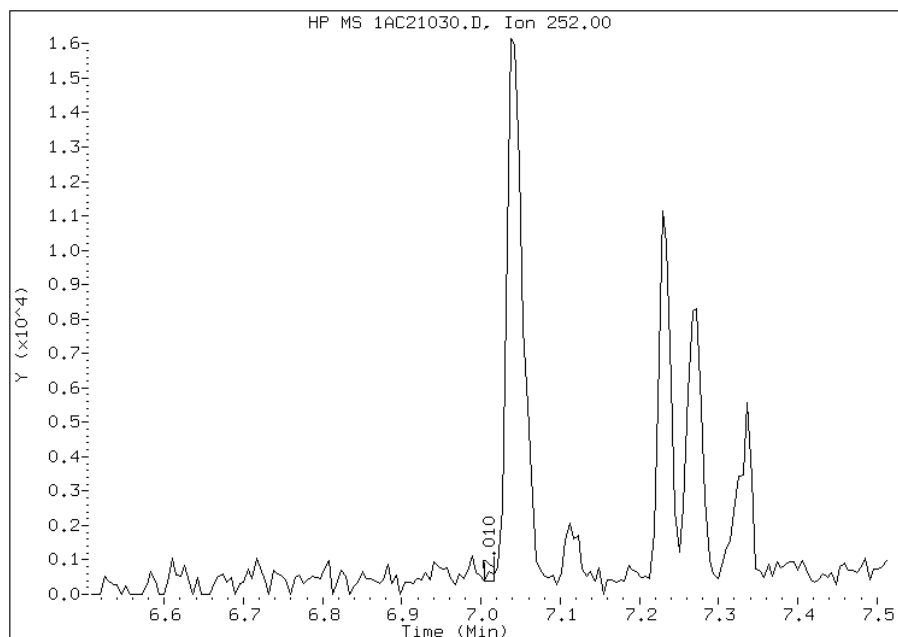
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:48  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AC21030.D  
Inj. Date and Time: 21-MAR-2013 22:30  
Instrument ID: BSMA5973.i  
Client ID: CV0826A-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 03/26/2013

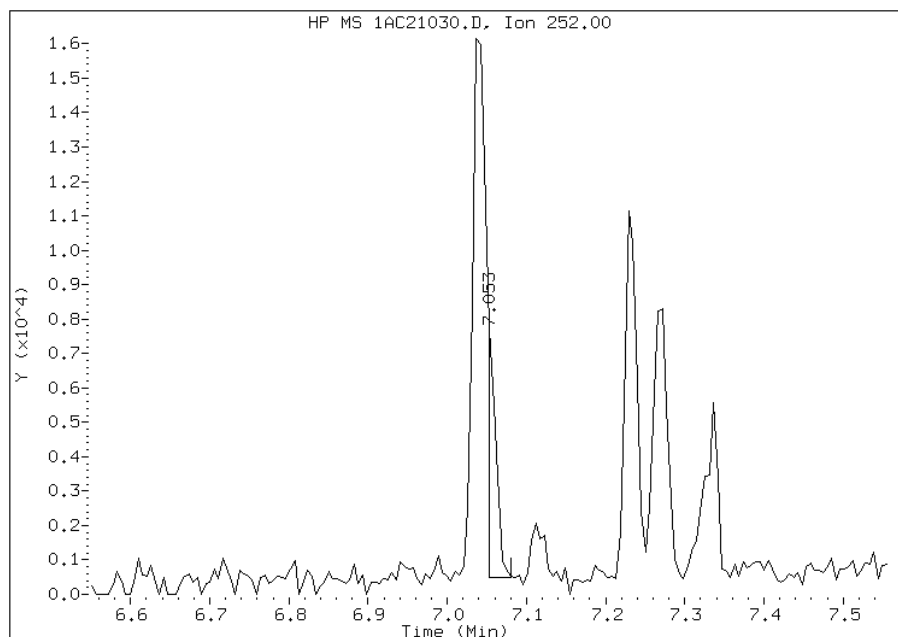
## Processing Integration Results

RT: 7.01  
Response: 139  
Amount: 0  
Conc: 1



## Manual Integration Results

RT: 7.05  
Response: 5104  
Amount: 0  
Conc: 23



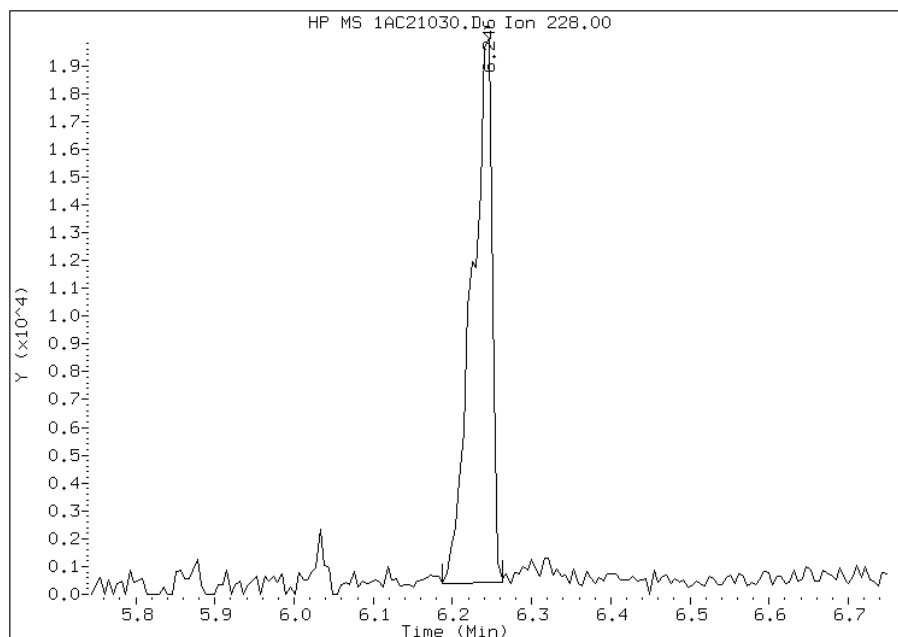
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:49  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AC21030.D  
Inj. Date and Time: 21-MAR-2013 22:30  
Instrument ID: BSMA5973.i  
Client ID: CV0826A-CS-SP  
Compound: 19 Chrysene  
CAS #: 218-01-9  
Report Date: 03/26/2013

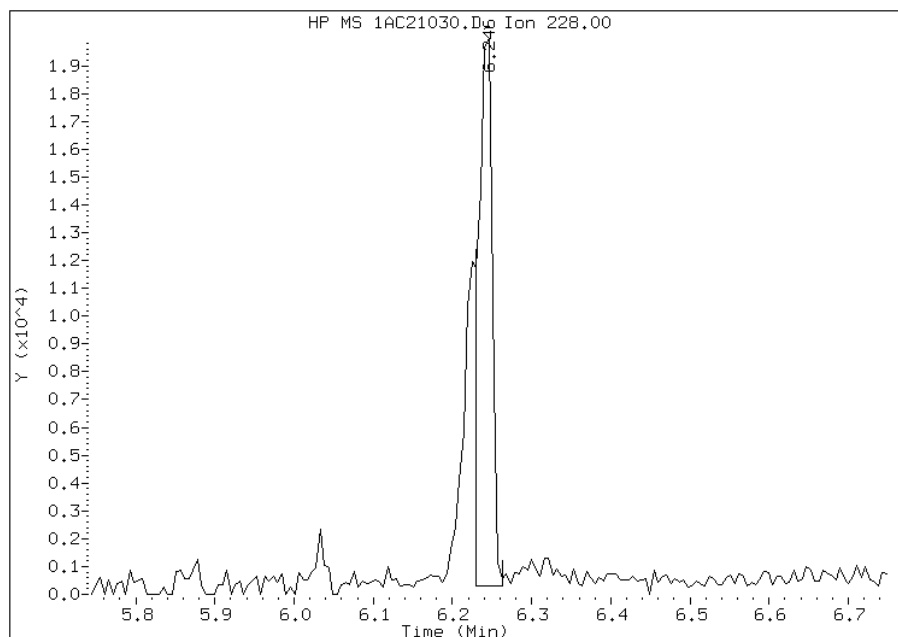
## Processing Integration Results

RT: 6.25  
Response: 34129  
Amount: 3  
Conc: 216



## Manual Integration Results

RT: 6.25  
Response: 23410  
Amount: 2  
Conc: 148



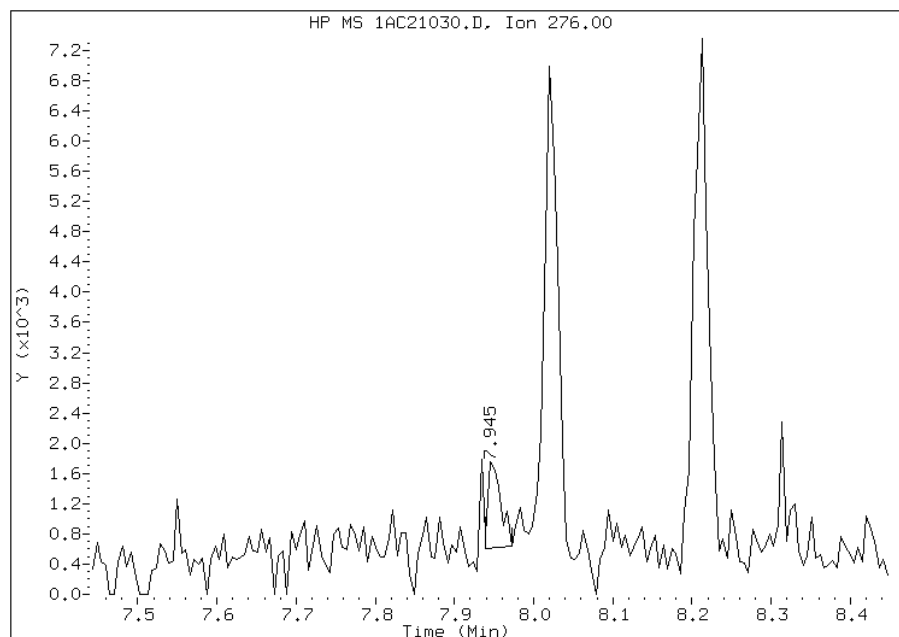
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:48  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AC21030.D  
Inj. Date and Time: 21-MAR-2013 22:30  
Instrument ID: BSMA5973.i  
Client ID: CV0826A-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/26/2013

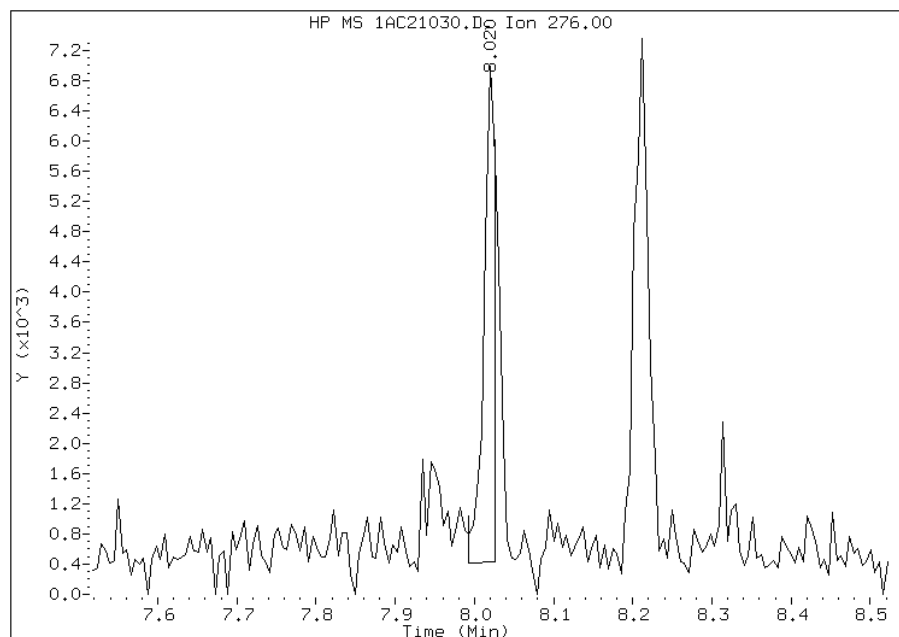
## Processing Integration Results

RT: 7.95  
Response: 1246  
Amount: 0  
Conc: 7



## Manual Integration Results

RT: 8.02  
Response: 6323  
Amount: 0  
Conc: 36



Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:49  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: CV0826B-CS-SP Lab Sample ID: 680-88420-11  
 Matrix: Solid Lab File ID: 1AC21031.D  
 Analysis Method: 8270C LL Date Collected: 03/14/2013 10:51  
 Extract. Method: 3546 Date Extracted: 03/21/2013 08:38  
 Sample wt/vol: 14.96(g) Date Analyzed: 03/21/2013 22:45  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 23.7 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135630 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	57	J	130	26
208-96-8	Acenaphthylene	85		53	6.6
120-12-7	Anthracene	100		11	5.5
56-55-3	Benzo[a]anthracene	220		11	5.1
50-32-8	Benzo[a]pyrene	120		14	6.8
205-99-2	Benzo[b]fluoranthene	300		16	8.0
191-24-2	Benzo[g,h,i]perylene	150		26	5.8
207-08-9	Benzo[k]fluoranthene	74		11	4.7
218-01-9	Chrysene	300		12	5.9
53-70-3	Dibenz(a,h)anthracene	57		26	5.4
206-44-0	Fluoranthene	300		26	5.3
86-73-7	Fluorene	37		26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	100		26	9.3
90-12-0	1-Methylnaphthalene	110		53	5.8
91-57-6	2-Methylnaphthalene	180		53	9.3
91-20-3	Naphthalene	94		53	5.8
85-01-8	Phenanthrene	260		11	5.1
129-00-0	Pyrene	230		26	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	48		30-130



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\1AC21031.D  
 Lab Smp Id: 680-88420-A-11-A Client Smp ID: CV0826B-CS-SP  
 Inj Date : 21-MAR-2013 22:45  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-88420-a-11-a  
 Misc Info : 680-88420-A-11-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\a-bFASTPAHi-m.m  
 Meth Date : 21-Mar-2013 17:07 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D  
 Als bottle: 26  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	23.674	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.293	2.282	(1.000)	519110	40.0000		
* 6 Acenaphthene-d10	164		3.313	3.302	(1.000)	395849	40.0000		
* 10 Phenanthrene-d10	188		4.232	4.221	(1.000)	583316	40.0000		
\$ 14 o-Terphenyl	230		4.504	4.499	(1.064)	36404	4.83607	423.5356	
* 18 Chrysene-d12	240		6.235	6.208	(1.000)	604121	40.0000		
* 23 Perylene-d12	264		7.336	7.292	(1.000)	837884	40.0000		(H)
2 Naphthalene	128		2.303	2.292	(1.005)	12921	1.07736	94.3536	
3 2-Methylnaphthalene	141		2.704	2.693	(1.179)	8355	2.01647	176.5990	
4 1-Methylnaphthalene	142		2.757	2.752	(1.203)	8573	1.24312	108.8710	
5 Acenaphthylene	152		3.227	3.216	(0.974)	11352	0.97276	85.1931	
7 Acenaphthene	154		3.324	3.318	(1.003)	1928	0.65368	57.2481(Q)	
9 Fluorene	166		3.633	3.628	(1.097)	2117	0.42437	37.1659(Q)	
11 Phenanthrene	178		4.242	4.237	(1.003)	44420	3.00460	263.1386	
12 Anthracene	178		4.280	4.269	(1.011)	16421	1.14552	100.3228	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.440	4.424	(1.049)	4504	0.35848	31.3947
15 Fluoranthene	202	5.097	5.081	(1.204)	50318	3.44317	301.5474
16 Pyrene	202	5.263	5.246	(0.844)	45859	2.64751	231.8651
17 Benzo(a)anthracene	228	6.230	6.197	(0.999)	40711	2.49223	218.2659
19 Chrysene	228	6.246	6.224	(1.002)	53835	3.44060	301.3229
20 Benzo(b)fluoranthene	252	7.047	7.015	(0.961)	50415	3.38631	296.5677(MH)
21 Benzo(k)fluoranthene	252	7.058	7.036	(0.962)	19065	0.84354	73.8759(QMH)
22 Benzo(a)pyrene	252	7.277	7.244	(0.992)	26222	1.33354	116.7896(H)
24 Indeno(1,2,3-cd)pyrene	276	8.030	7.987	(1.095)	20532	1.15723	101.3483(MH)
25 Dibenzo(a,h)anthracene	278	8.035	7.998	(1.095)	11429	0.64995	56.9218(H)
26 Benzo(g,h,i)perylene	276	8.222	8.169	(1.121)	29716	1.66388	145.7197(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: 1AC21031.D

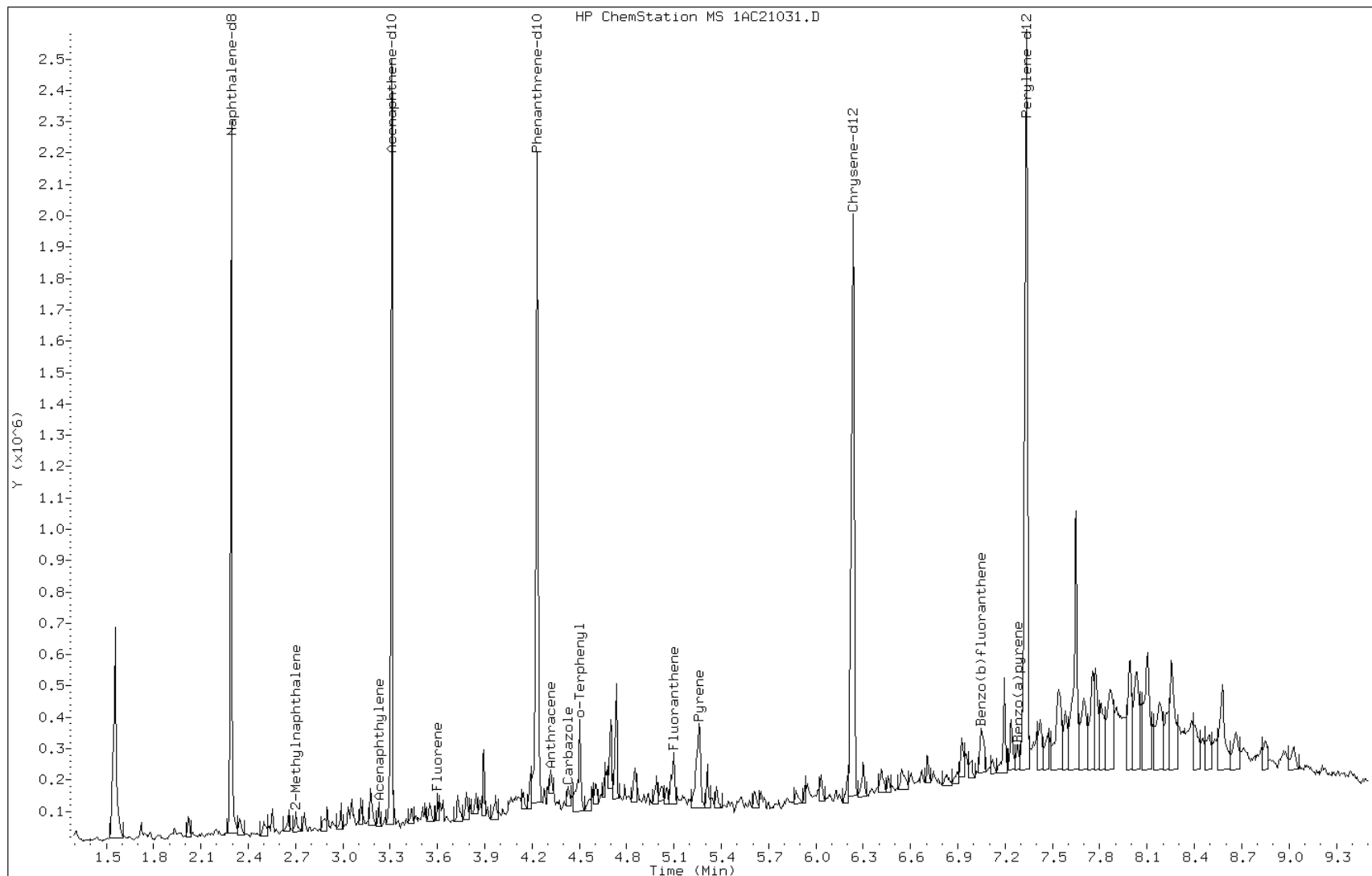
Date: 21-MAR-2013 22:45

Client ID: CV0826B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-11-a

Operator: SCC



Data File: 1AC21031.D

Date: 21-MAR-2013 22:45

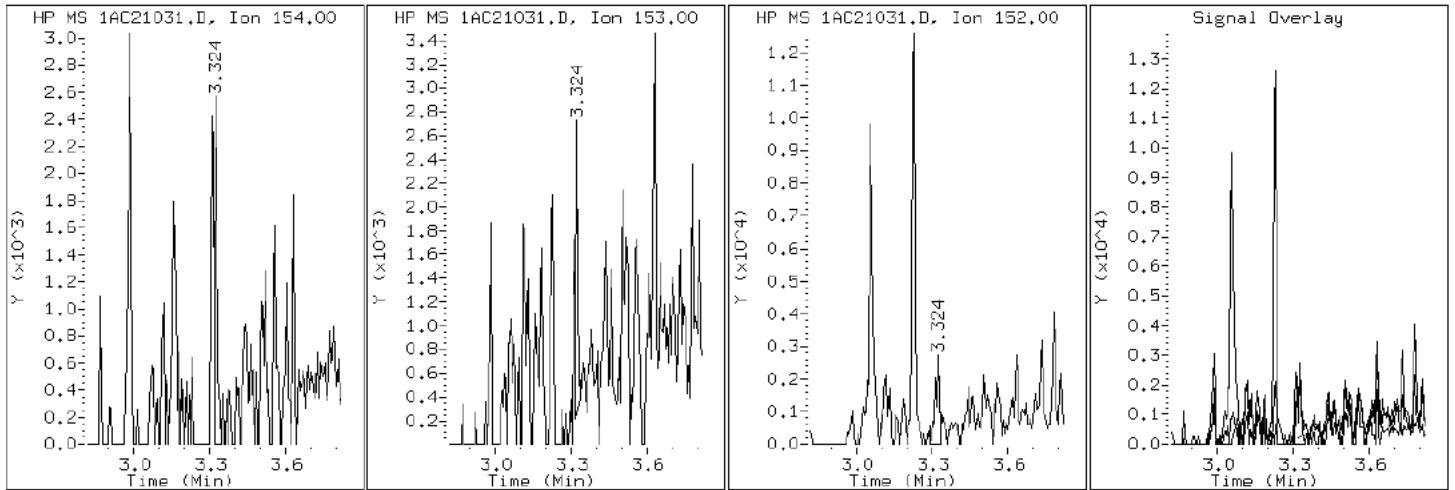
Client ID: CV0826B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-11-a

Operator: SCC

7 Acenaphthene



Data File: 1AC21031.D

Date: 21-MAR-2013 22:45

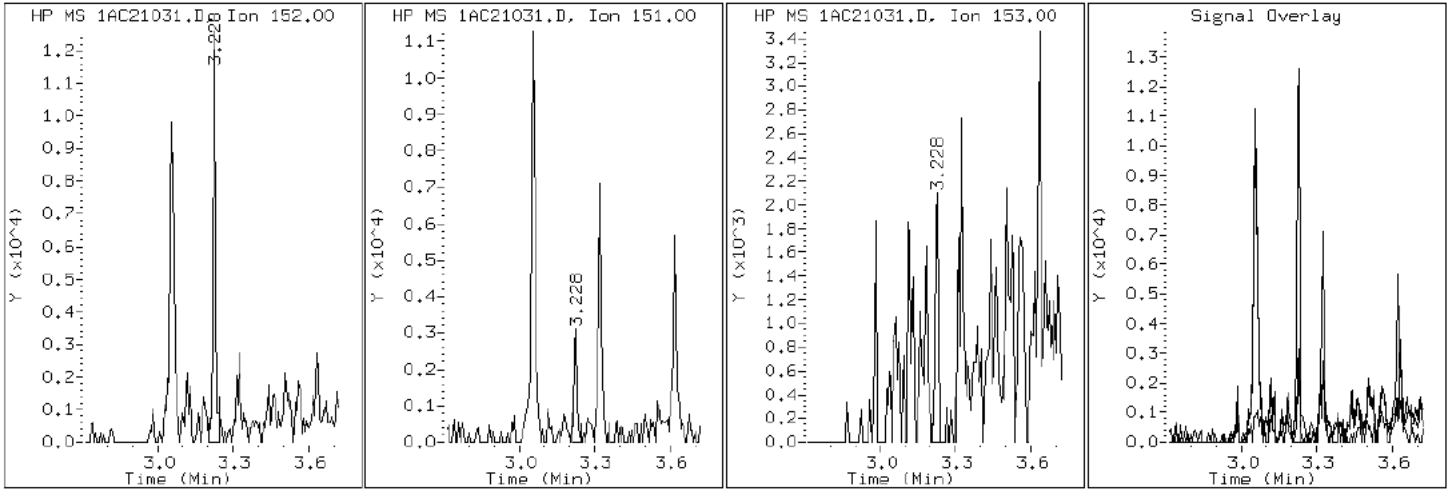
Client ID: CV0826B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-11-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC21031.D

Date: 21-MAR-2013 22:45

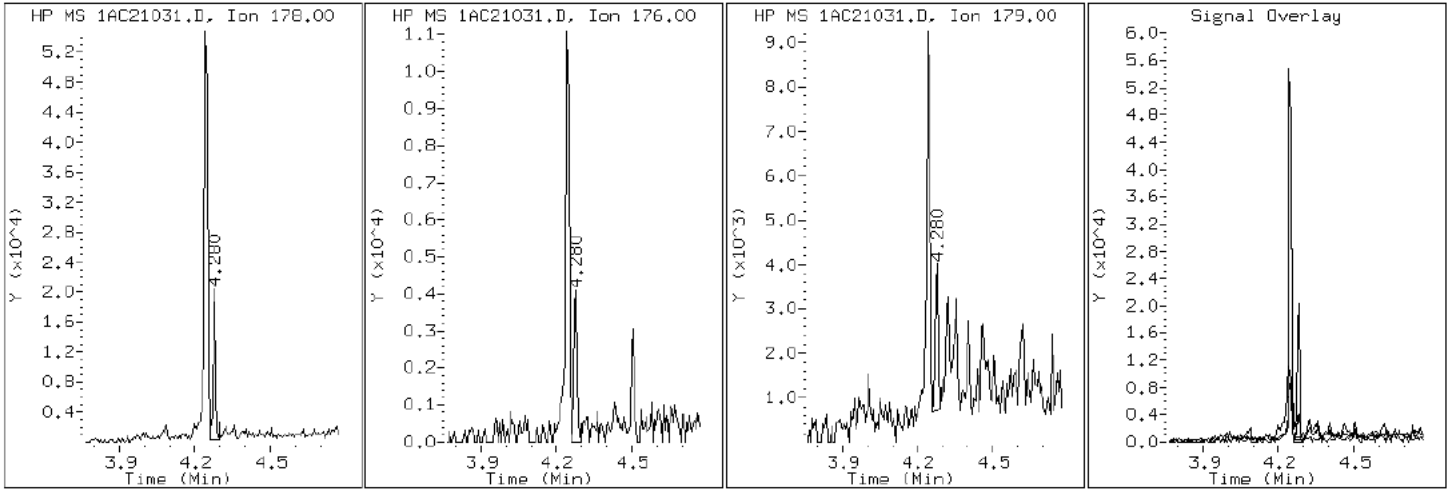
Client ID: CV0826B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-11-a

Operator: SCC

12 Anthracene



Data File: 1AC21031.D

Date: 21-MAR-2013 22:45

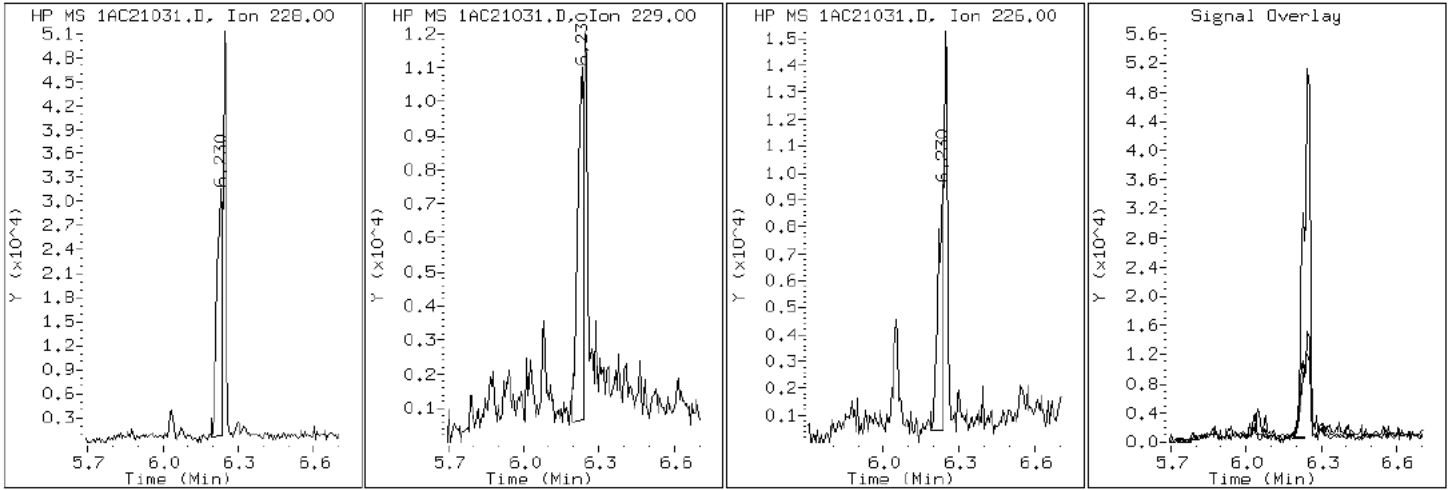
Client ID: CV0826B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-11-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC21031.D

Date: 21-MAR-2013 22:45

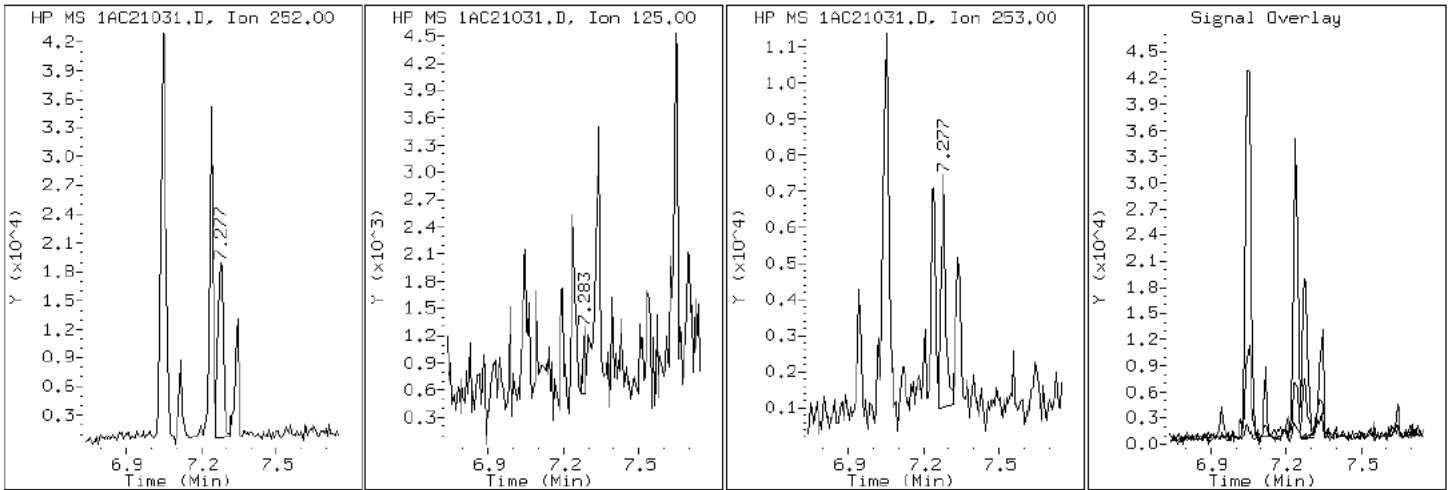
Client ID: CV0826B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-11-a

Operator: SCC

22 Benzo(a)pyrene





Data File: 1AC21031.D

Date: 21-MAR-2013 22:45

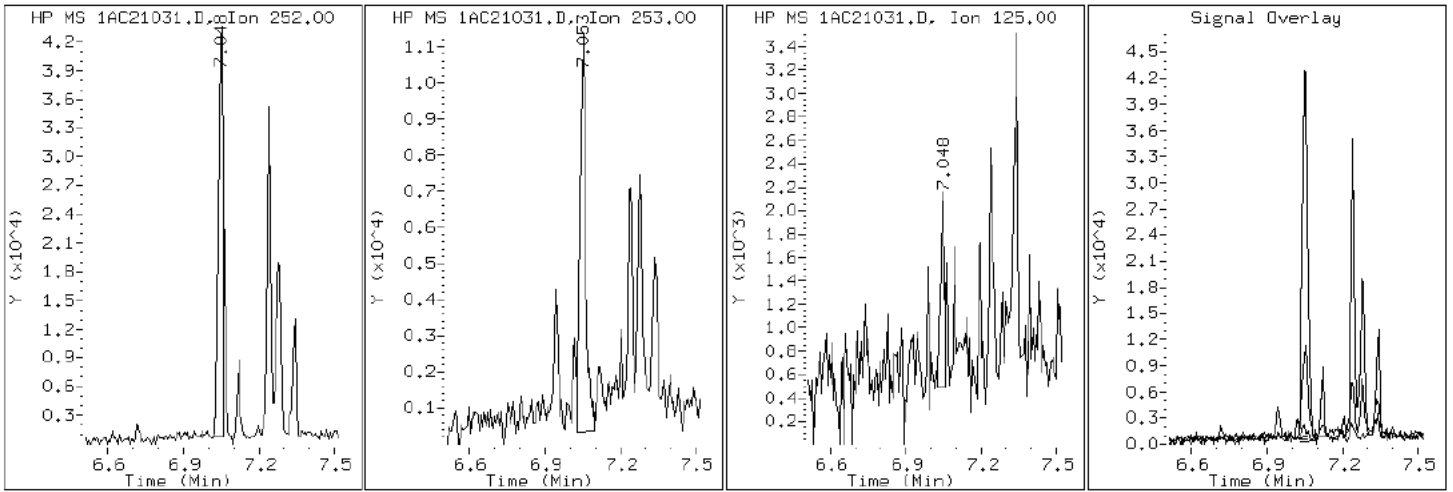
Client ID: CV0826B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-11-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC21031.D

Date: 21-MAR-2013 22:45

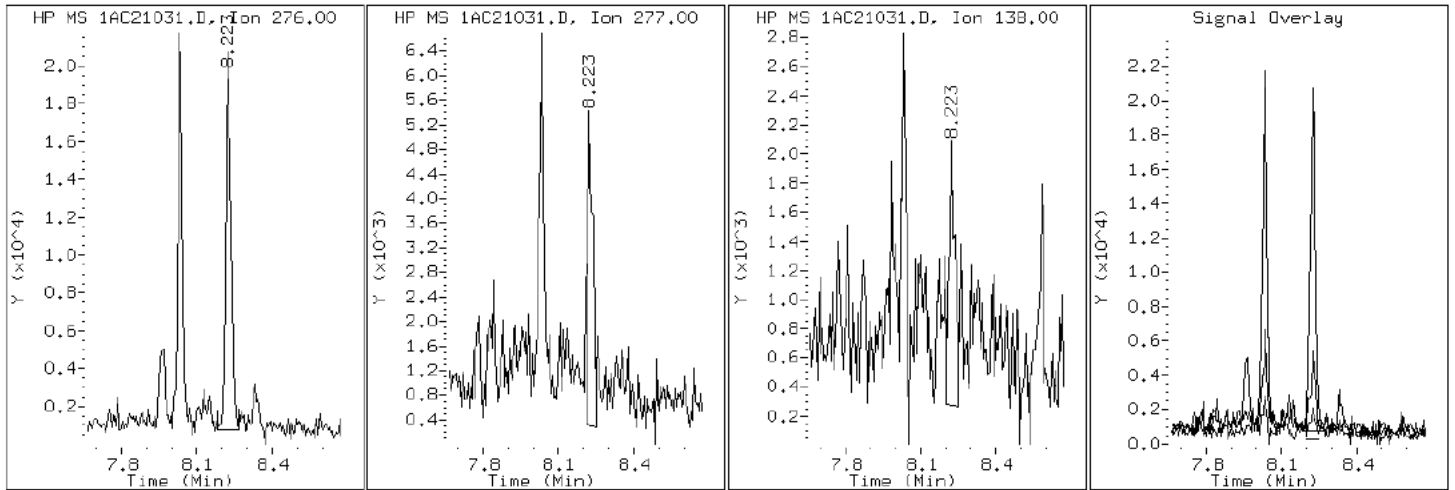
Client ID: CV0826B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-11-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC21031.D

Date: 21-MAR-2013 22:45

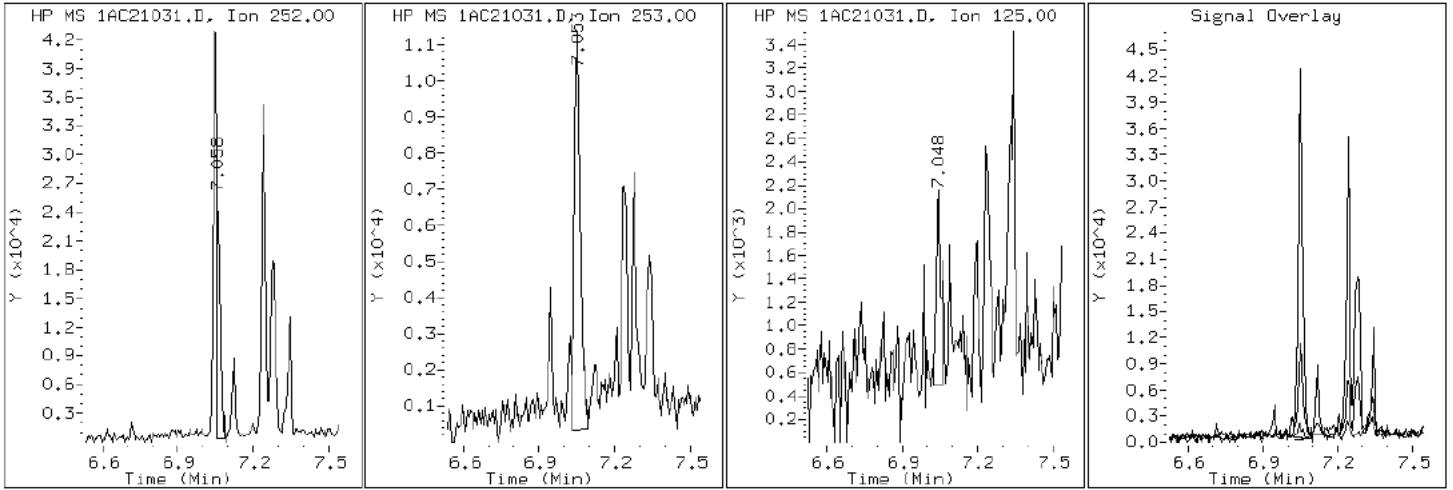
Client ID: CV0826B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-11-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC21031.D

Date: 21-MAR-2013 22:45

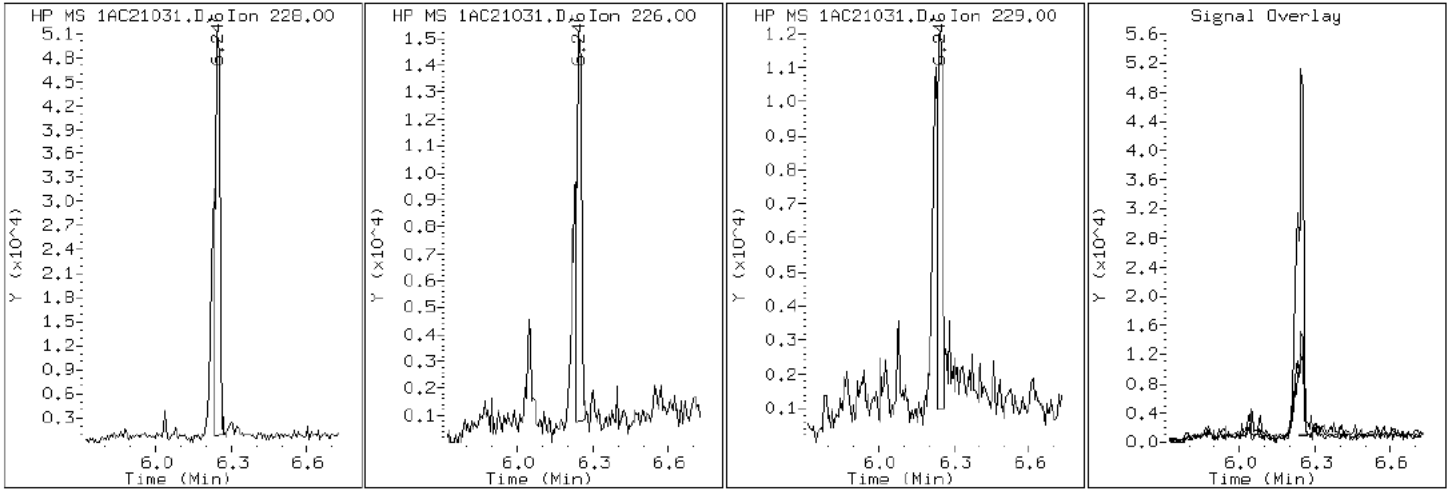
Client ID: CV0826B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-11-a

Operator: SCC

19 Chrysene



Data File: 1AC21031.D

Date: 21-MAR-2013 22:45

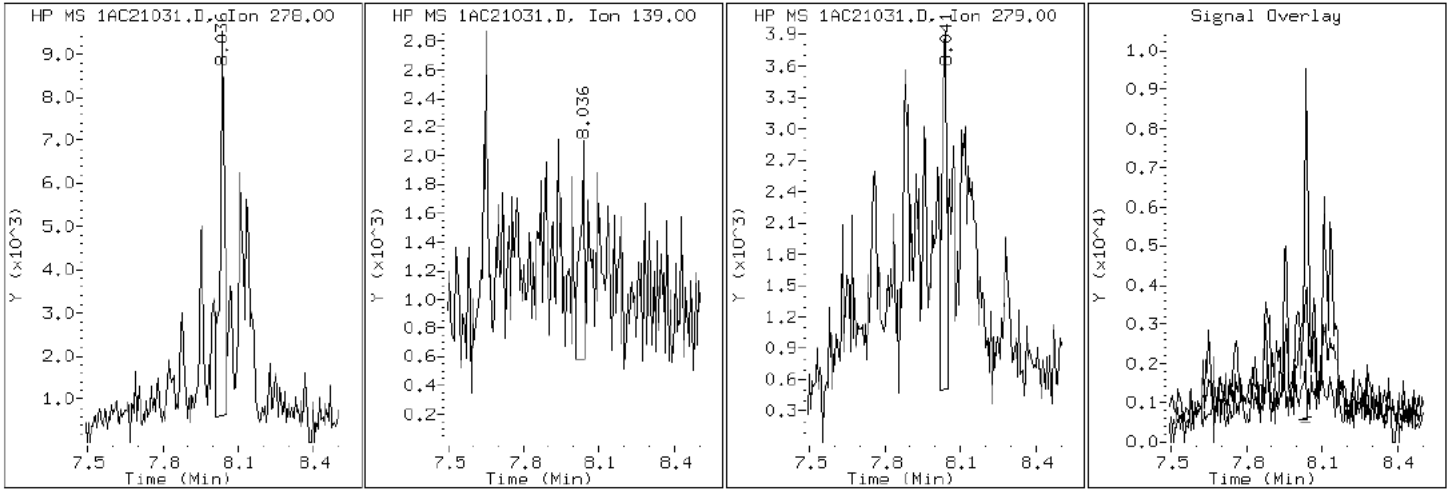
Client ID: CV0826B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-11-a

Operator: SCC

25 Dibenzo (a,h)anthracene



Data File: 1AC21031.D

Date: 21-MAR-2013 22:45

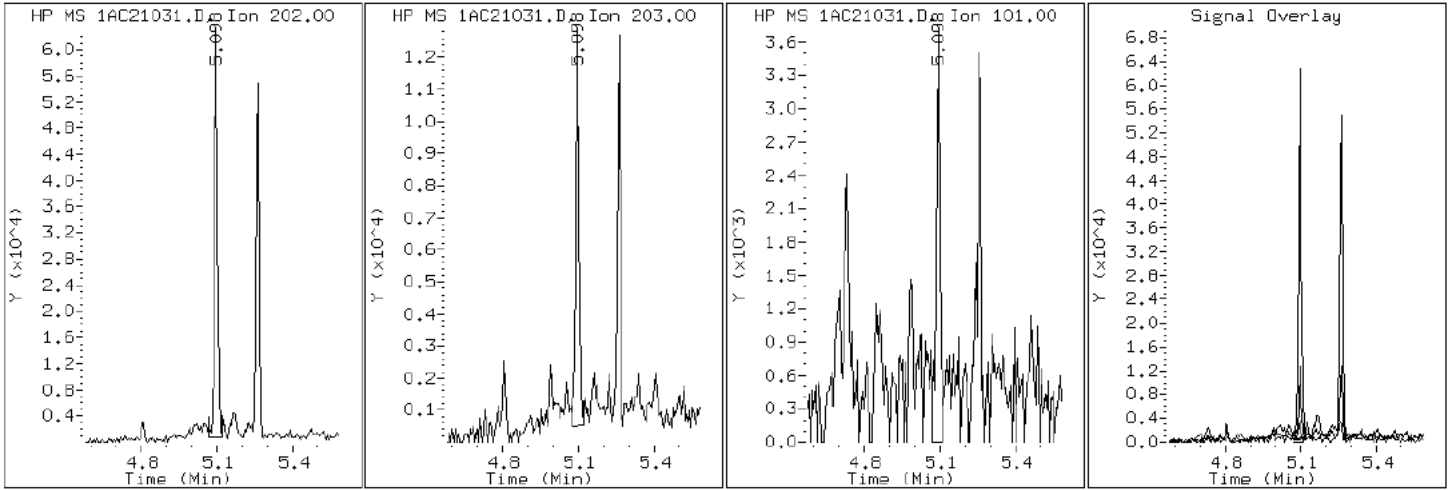
Client ID: CV0826B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-11-a

Operator: SCC

15 Fluoranthene



Data File: 1AC21031.D

Date: 21-MAR-2013 22:45

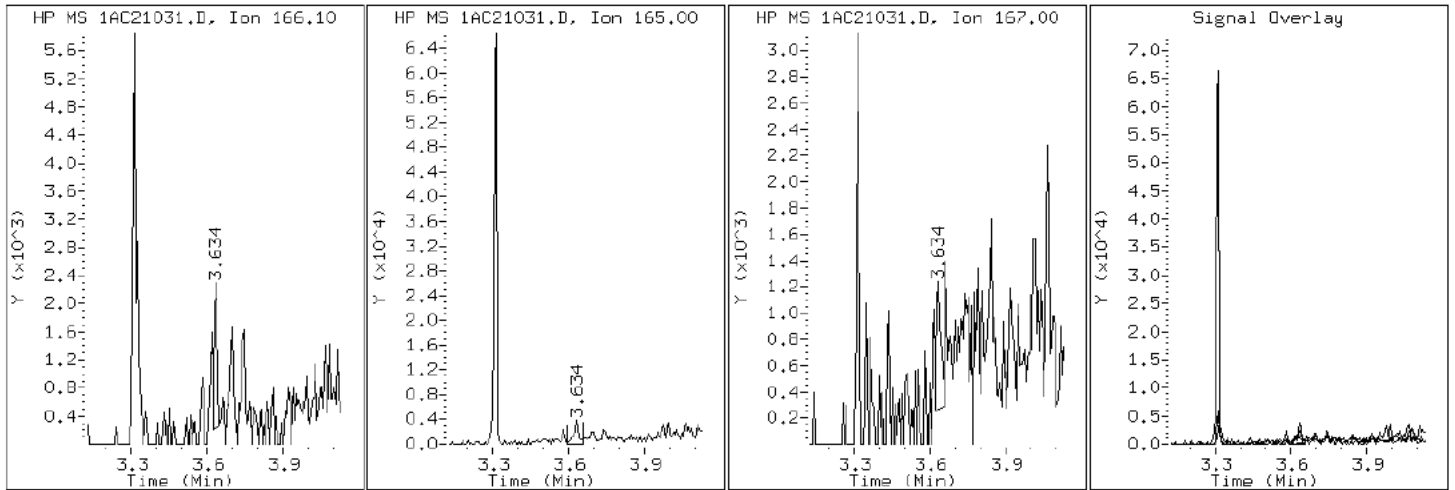
Client ID: CV0826B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-11-a

Operator: SCC

9 Fluorene



Data File: 1AC21031.D

Date: 21-MAR-2013 22:45

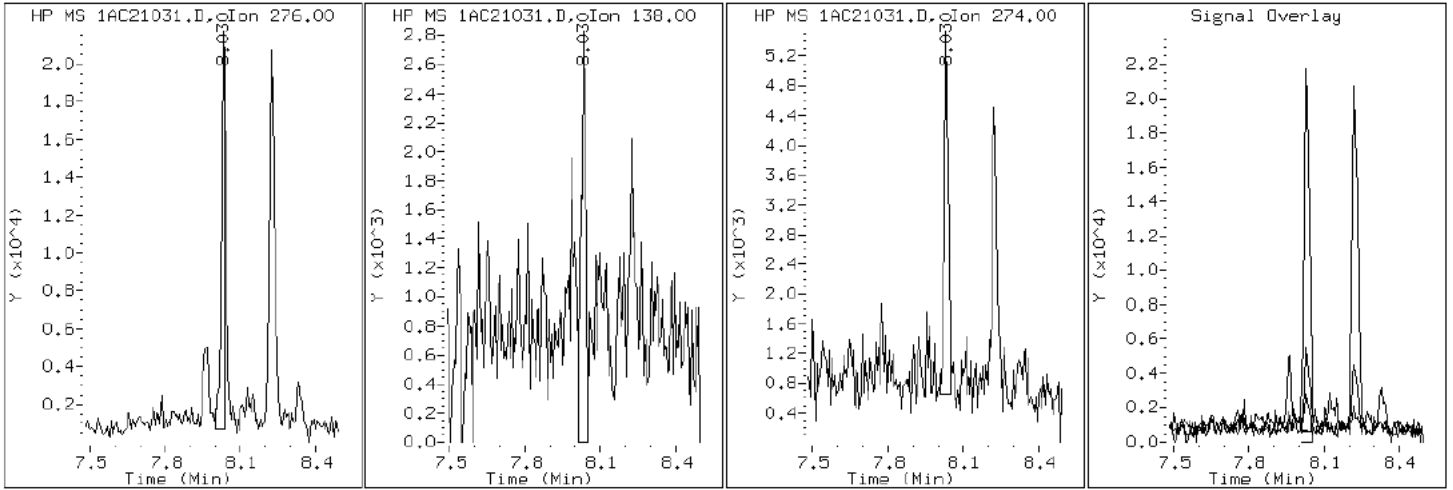
Client ID: CV0826B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-11-a

Operator: SCC

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





Data File: 1AC21031.D

Date: 21-MAR-2013 22:45

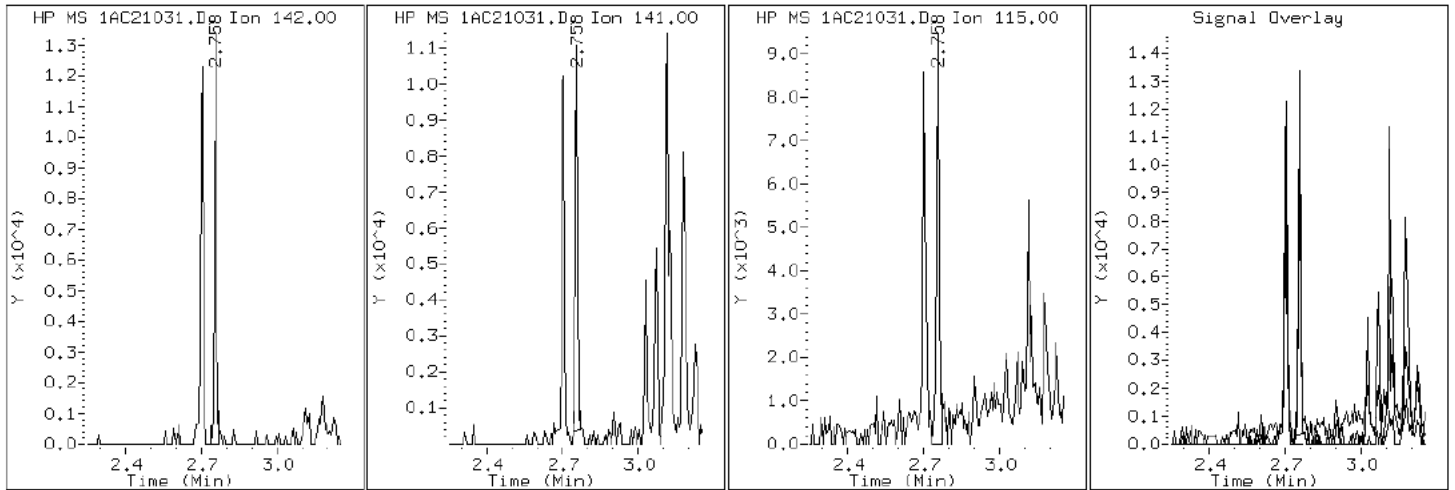
Client ID: CV0826B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-11-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC21031.D

Date: 21-MAR-2013 22:45

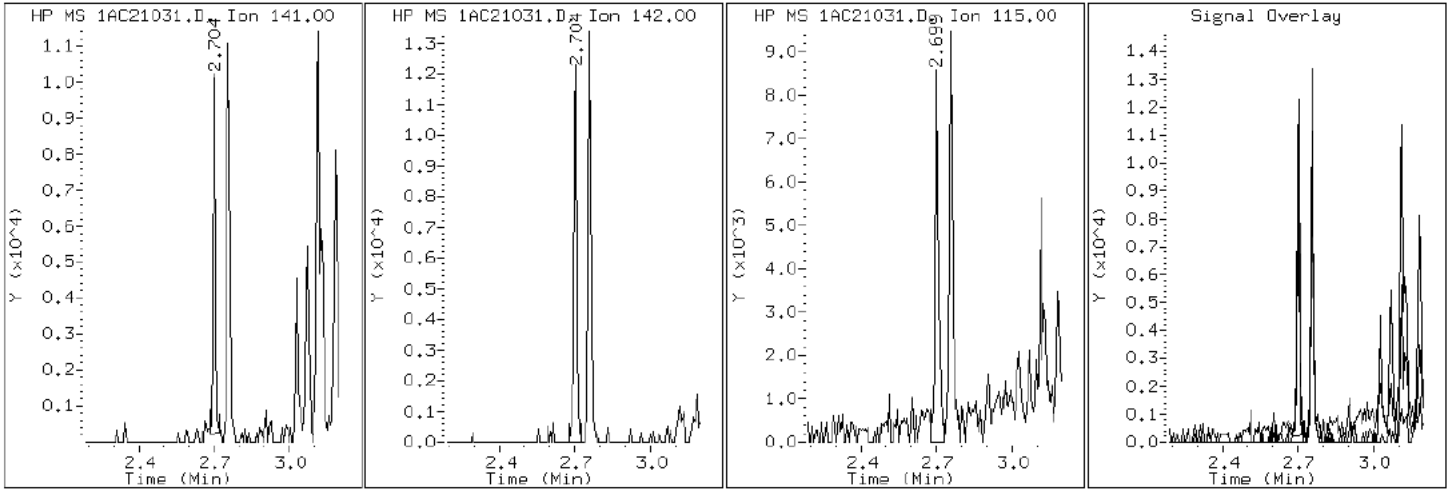
Client ID: CV0826B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-11-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC21031.D

Date: 21-MAR-2013 22:45

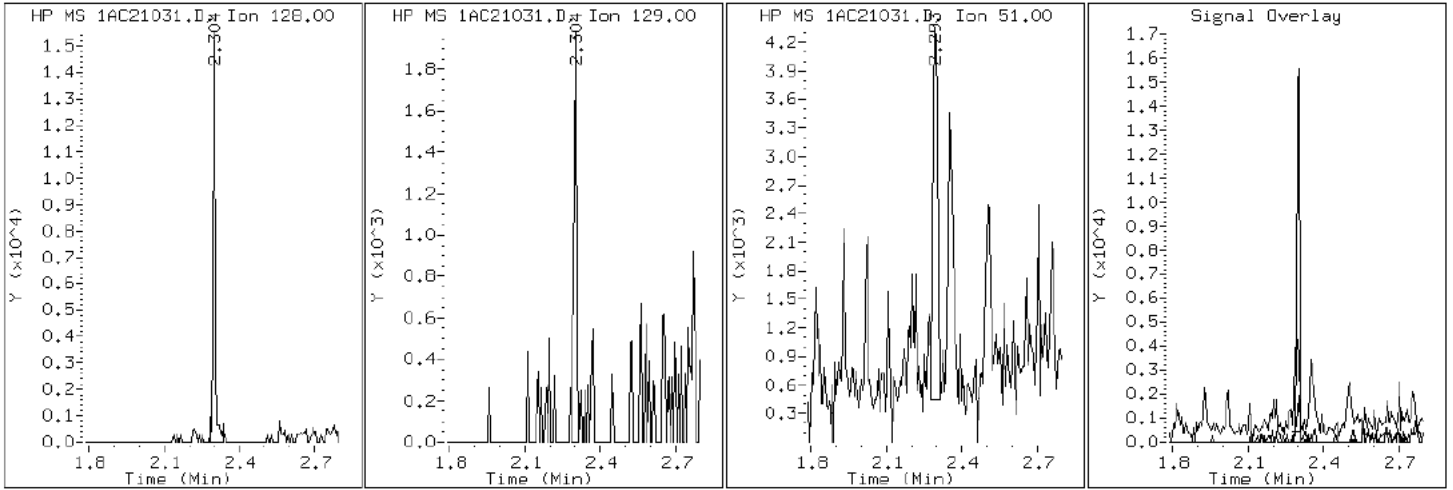
Client ID: CV0826B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-11-a

Operator: SCC

2 Naphthalene



Data File: 1AC21031.D

Date: 21-MAR-2013 22:45

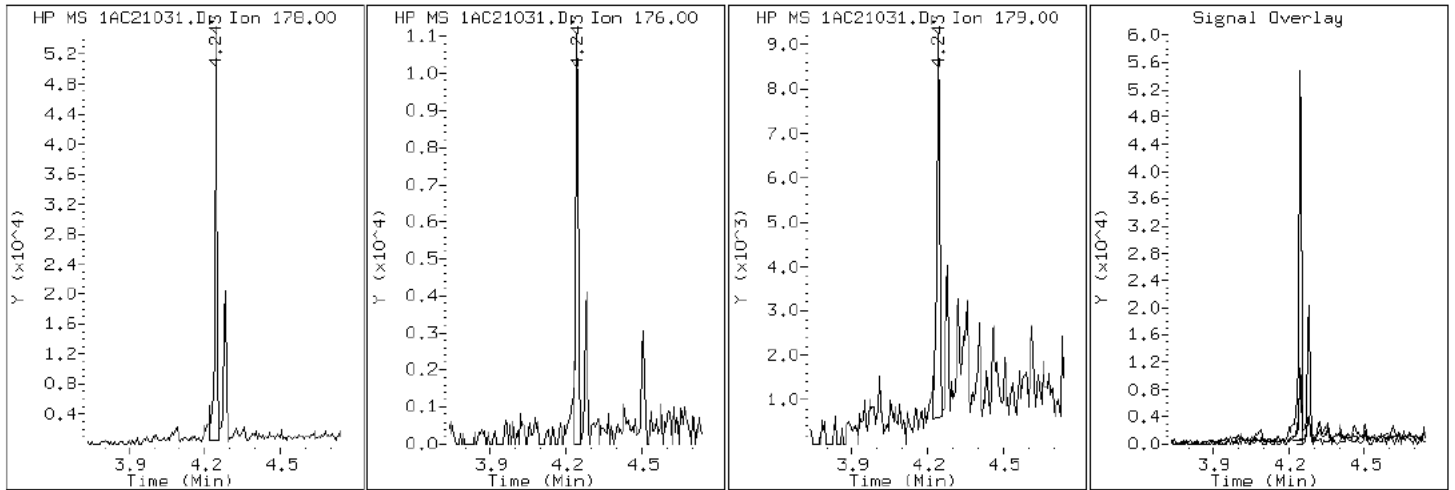
Client ID: CV0826B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-11-a

Operator: SCC

11 Phenanthrene



Data File: 1AC21031.D

Date: 21-MAR-2013 22:45

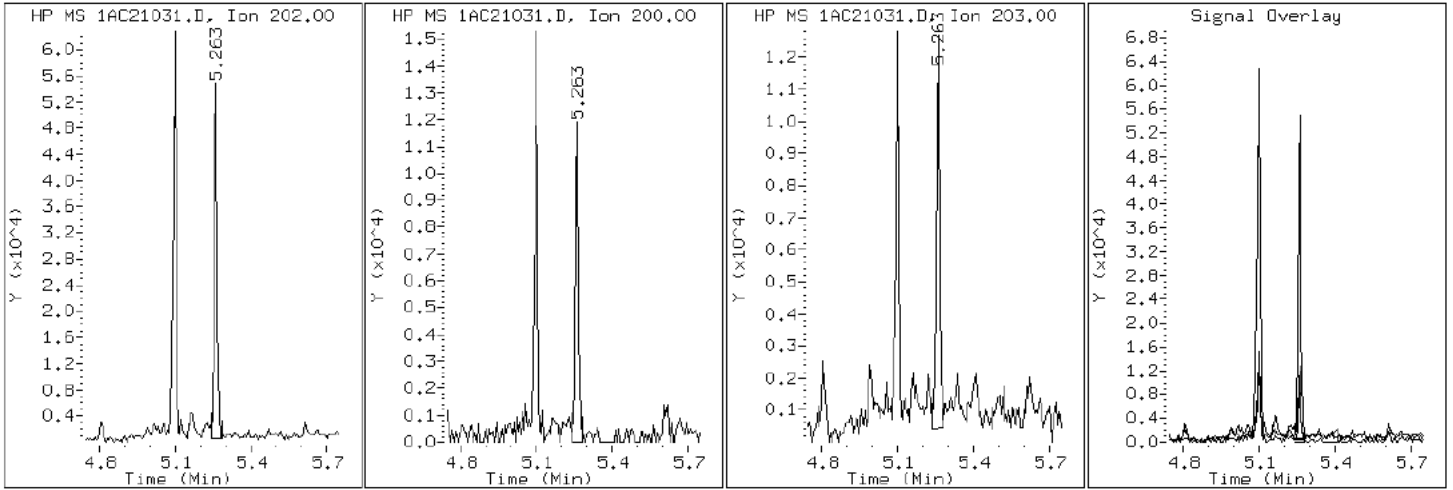
Client ID: CV0826B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-11-a

Operator: SCC

16 Pyrene

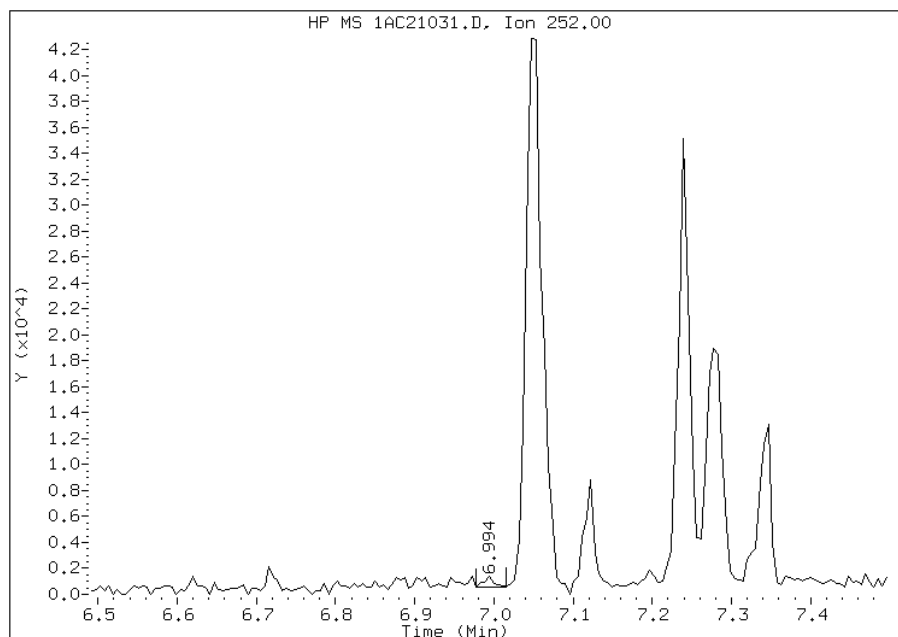


# Manual Integration Report

Data File: 1AC21031.D  
Inj. Date and Time: 21-MAR-2013 22:45  
Instrument ID: BSMA5973.i  
Client ID: CV0826B-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 03/26/2013

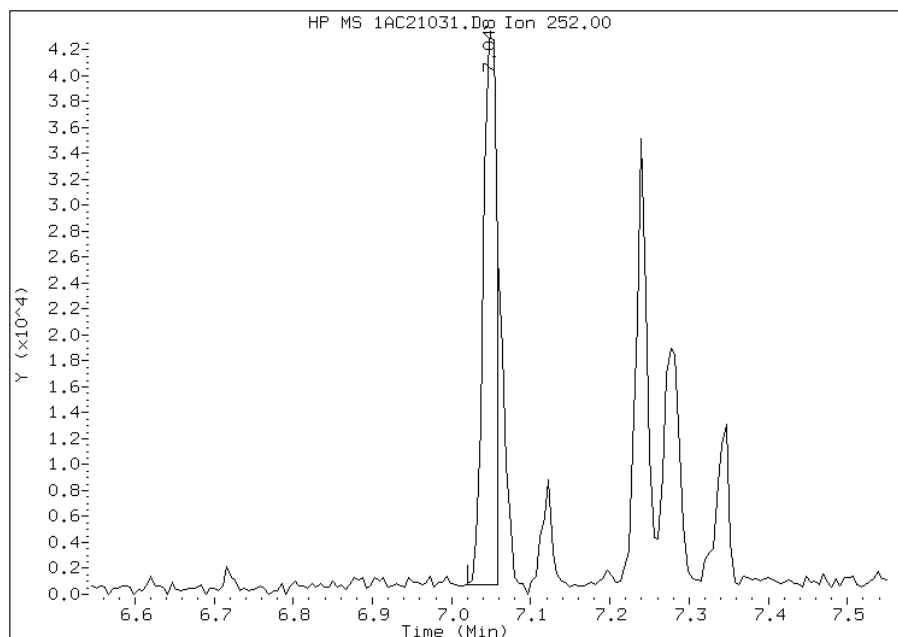
## Processing Integration Results

RT: 6.99  
Response: 694  
Amount: 1  
Conc: 108



## Manual Integration Results

RT: 7.05  
Response: 50415  
Amount: 3  
Conc: 297



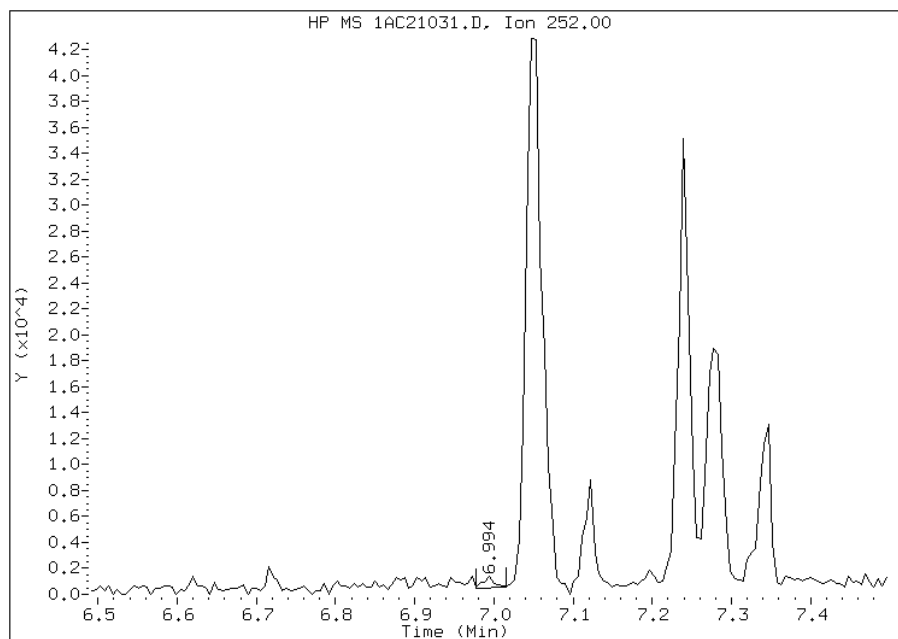
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:50  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AC21031.D  
Inj. Date and Time: 21-MAR-2013 22:45  
Instrument ID: BSMA5973.i  
Client ID: CV0826B-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 03/26/2013

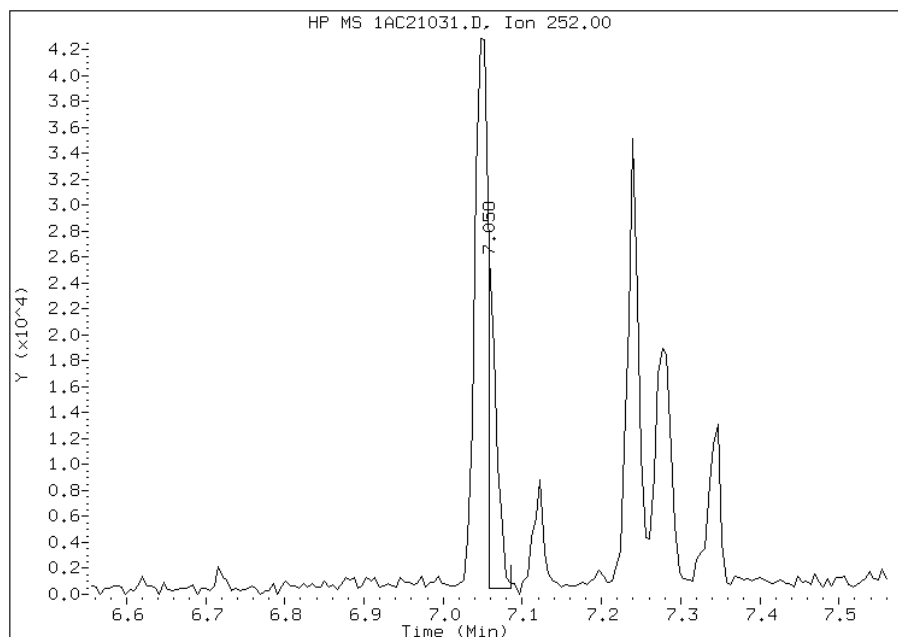
## Processing Integration Results

RT: 6.99  
Response: 927  
Amount: 0  
Conc: 4



## Manual Integration Results

RT: 7.06  
Response: 19065  
Amount: 1  
Conc: 74



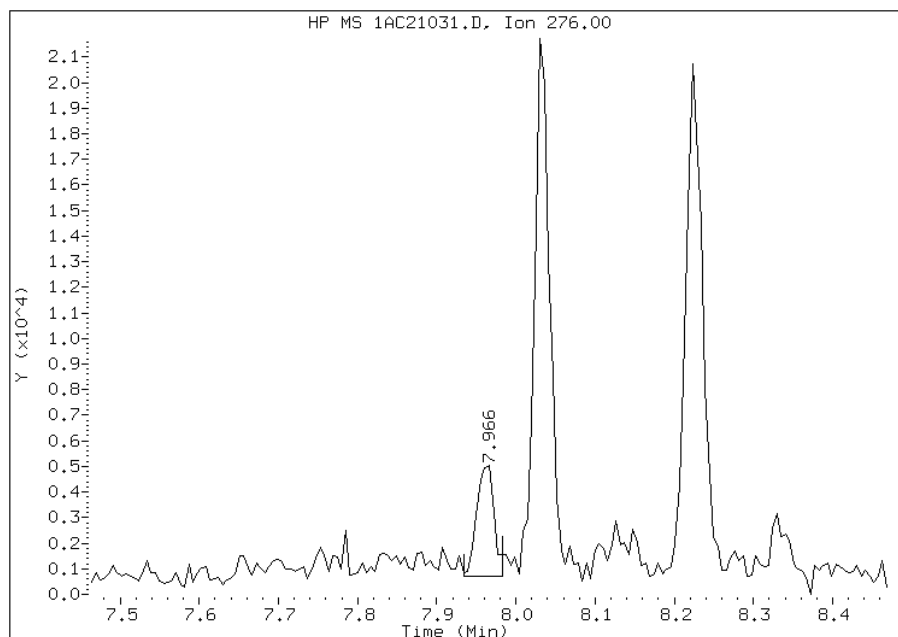
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:50  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AC21031.D  
Inj. Date and Time: 21-MAR-2013 22:45  
Instrument ID: BSMA5973.i  
Client ID: CV0826B-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/26/2013

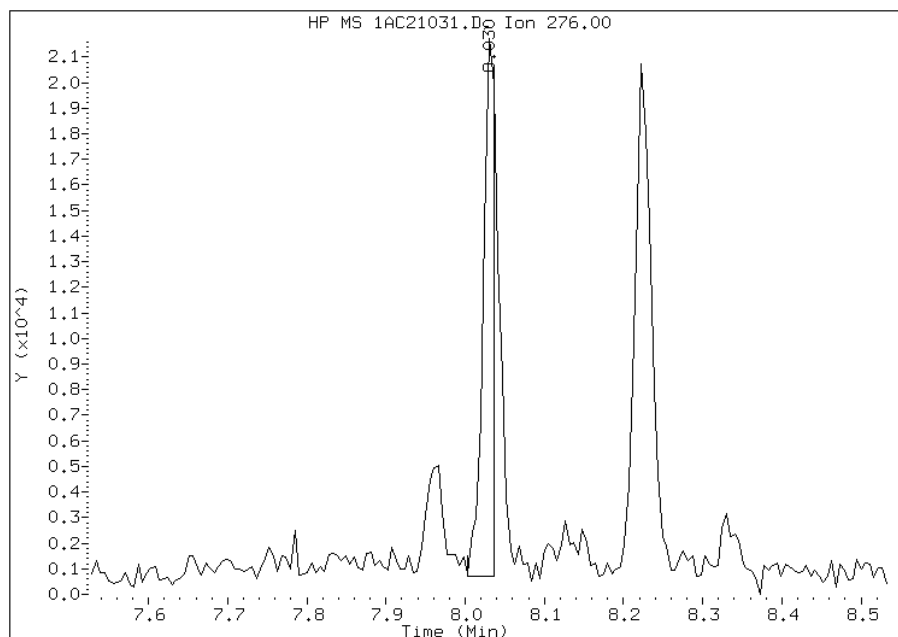
## Processing Integration Results

RT: 7.97  
Response: 6514  
Amount: 0  
Conc: 32



## Manual Integration Results

RT: 8.03  
Response: 20532  
Amount: 1  
Conc: 101



Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:51  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: CV1151A-CS-SP Lab Sample ID: 680-88420-12  
 Matrix: Solid Lab File ID: 1AC26007.D  
 Analysis Method: 8270C LL Date Collected: 03/14/2013 11:19  
 Extract. Method: 3546 Date Extracted: 03/21/2013 11:14  
 Sample wt/vol: 15.18(g) Date Analyzed: 03/26/2013 12:30  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 22.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135850 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	59	J	130	25
208-96-8	Acenaphthylene	50	J	51	6.3
120-12-7	Anthracene	62		11	5.3
56-55-3	Benzo[a]anthracene	300		10	4.9
50-32-8	Benzo[a]pyrene	200	F	13	6.6
205-99-2	Benzo[b]fluoranthene	440		15	7.7
191-24-2	Benzo[g,h,i]perylene	170		25	5.6
207-08-9	Benzo[k]fluoranthene	120		10	4.6
218-01-9	Chrysene	340		11	5.7
53-70-3	Dibenz(a,h)anthracene	67		25	5.2
206-44-0	Fluoranthene	390	F	25	5.1
86-73-7	Fluorene	43		25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	140		25	9.0
90-12-0	1-Methylnaphthalene	94		51	5.6
91-57-6	2-Methylnaphthalene	190		51	9.0
91-20-3	Naphthalene	90		51	5.6
85-01-8	Phenanthrene	310		10	4.9
129-00-0	Pyrene	310	F	25	4.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	72		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26007.D  
 Lab Smp Id: 680-88420-A-12-A Client Smp ID: CV1151A-CS-SP  
 Inj Date : 26-MAR-2013 12:30  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-88420-a-12-a  
 Misc Info : 680-88420-A-12-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\a-bFASTPAHi-m.m  
 Meth Date : 26-Mar-2013 11:39 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D  
 Als bottle: 7  
 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	15.180	Weight Extracted
M	22.015	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136			2.271	2.272	(1.000)	393543	40.0000	
* 6 Acenaphthene-d10	164			3.286	3.287	(1.000)	275891	40.0000	
* 10 Phenanthrene-d10	188			4.205	4.205	(1.000)	438498	40.0000	
\$ 14 o-Terphenyl	230			4.477	4.478	(1.065)	41321	7.18989	607.3497
* 18 Chrysene-d12	240			6.187	6.193	(1.000)	404662	40.0000	
* 23 Perylene-d12	264			7.277	7.272	(1.000)	420762	40.0000	
2 Naphthalene	128			2.282	2.282	(1.005)	9721	1.06916	90.3150
3 2-Methylnaphthalene	141			2.683	2.683	(1.181)	7380	2.20399	186.1771
4 1-Methylnaphthalene	142			2.736	2.736	(1.205)	5795	1.10842	93.6309
5 Acenaphthylene	152			3.206	3.201	(0.976)	4184	0.59228	50.0311
7 Acenaphthene	154			3.302	3.308	(1.005)	1629	0.70365	59.4391(Q)
9 Fluorene	166			3.607	3.612	(1.098)	2017	0.50461	42.6261(Q)
11 Phenanthrene	178			4.216	4.221	(1.003)	40151	3.61278	305.1813
12 Anthracene	178			4.248	4.253	(1.010)	7956	0.73830	62.3663

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.408	4.408	(1.048)	3160	0.33457	28.2619
15 Fluoranthene	202	5.060	5.065	(1.203)	50873	4.63083	391.1786
16 Pyrene	202	5.225	5.226	(0.845)	42751	3.68461	311.2489
17 Benzo(a)anthracene	228	6.182	6.177	(0.999)	40299	3.60257	304.3190
19 Chrysene	228	6.203	6.209	(1.003)	41905	3.99823	337.7412
20 Benzo(b)fluoranthene	252	6.999	6.994	(0.962)	46828	5.24165	442.7765(M)
21 Benzo(k)fluoranthene	252	7.010	7.015	(0.963)	16128	1.42101	120.0364(QM)
22 Benzo(a)pyrene	252	7.223	7.224	(0.993)	23652	2.39528	202.3358
24 Indeno(1,2,3-cd)pyrene	276	7.971	7.972	(1.095)	15183	1.70409	143.9494(M)
25 Dibenzo(a,h)anthracene	278	7.977	7.982	(1.096)	6954	0.78751	66.5230
26 Benzo(g,h,i)perylene	276	8.153	8.148	(1.120)	17975	2.00423	169.3025

QC Flag Legend

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

Data File: 1AC26007.D

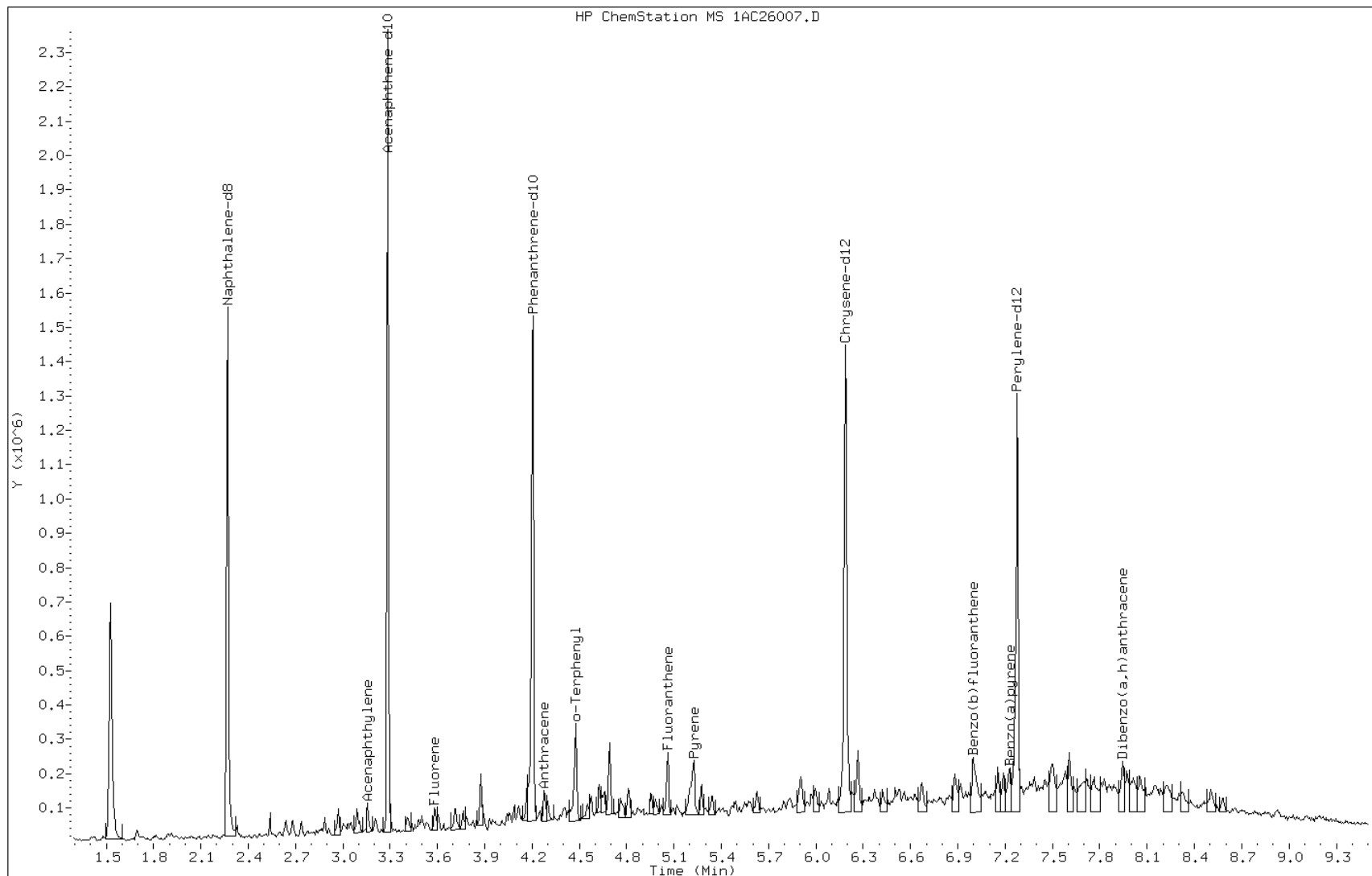
Date: 26-MAR-2013 12:30

Client ID: CV1151A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-12-a

Operator: SCC



Data File: 1AC26007.D

Date: 26-MAR-2013 12:30

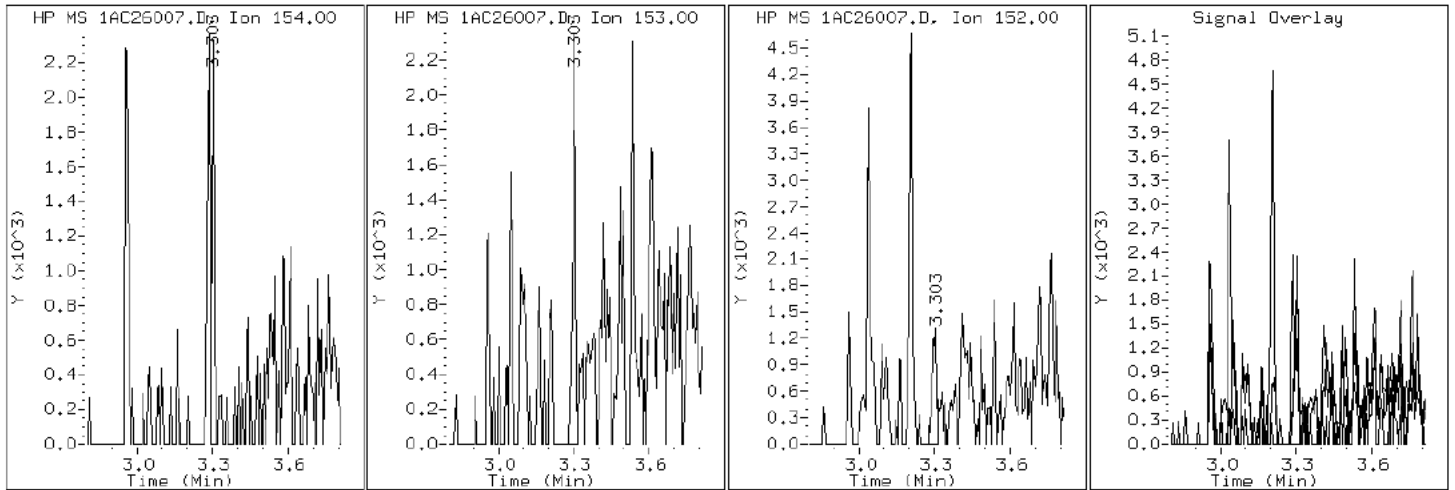
Client ID: CV1151A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-12-a

Operator: SCC

7 Acenaphthene



Data File: 1AC26007.D

Date: 26-MAR-2013 12:30

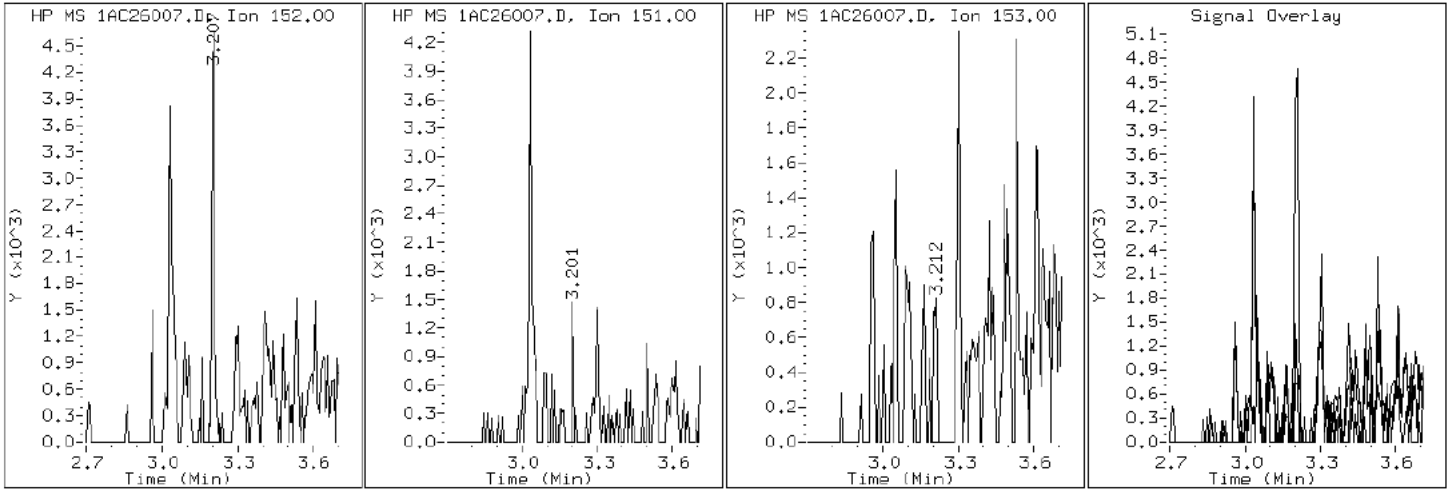
Client ID: CV1151A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-12-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC26007.D

Date: 26-MAR-2013 12:30

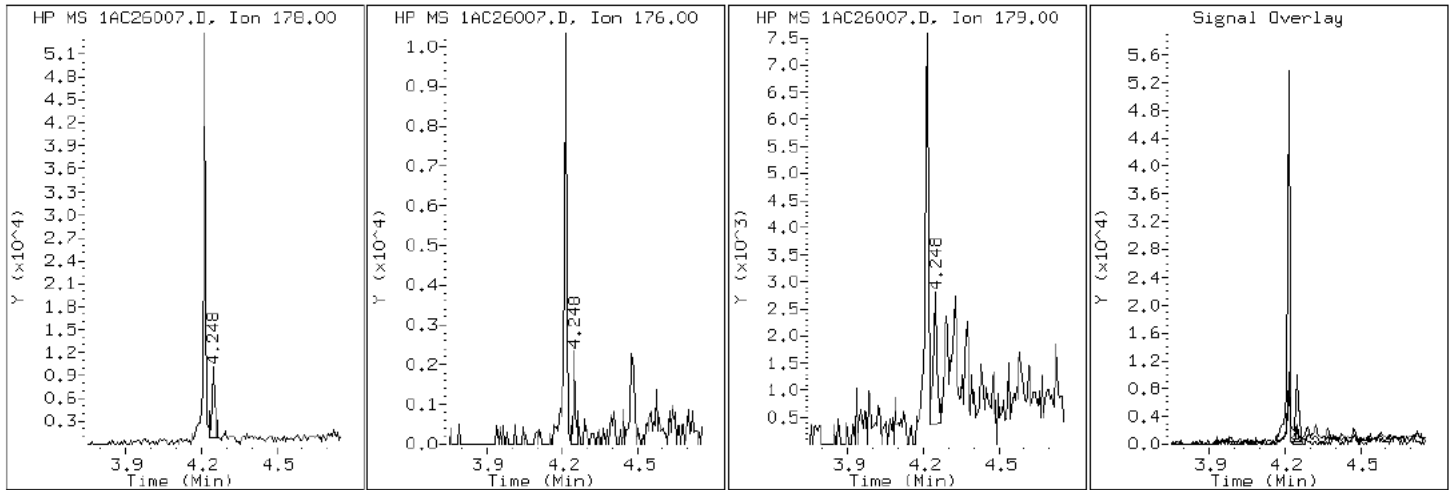
Client ID: CV1151A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-12-a

Operator: SCC

12 Anthracene



Data File: 1AC26007.D

Date: 26-MAR-2013 12:30

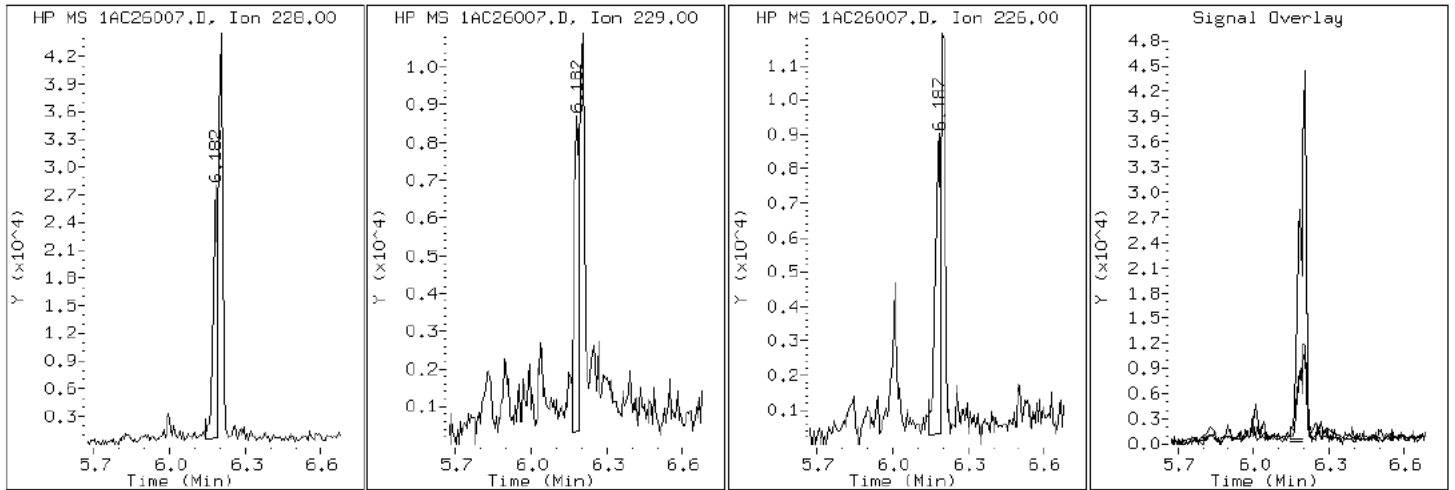
Client ID: CV1151A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-12-a

Operator: SCC

17 Benzo(a)anthracene





Data File: 1AC26007.D

Date: 26-MAR-2013 12:30

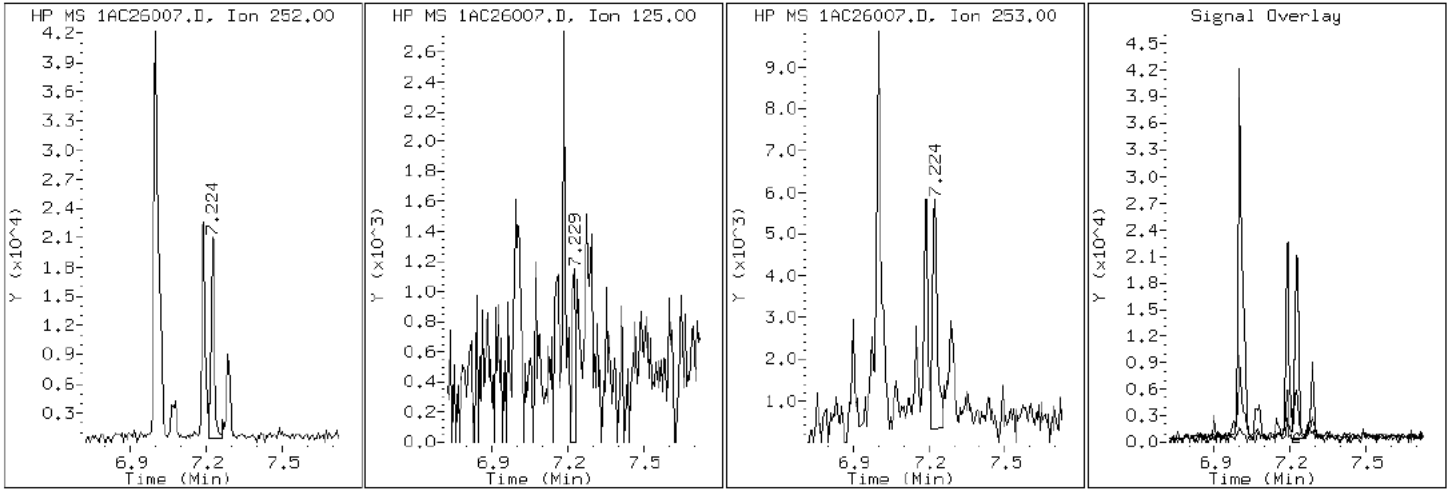
Client ID: CV1151A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-12-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC26007.D

Date: 26-MAR-2013 12:30

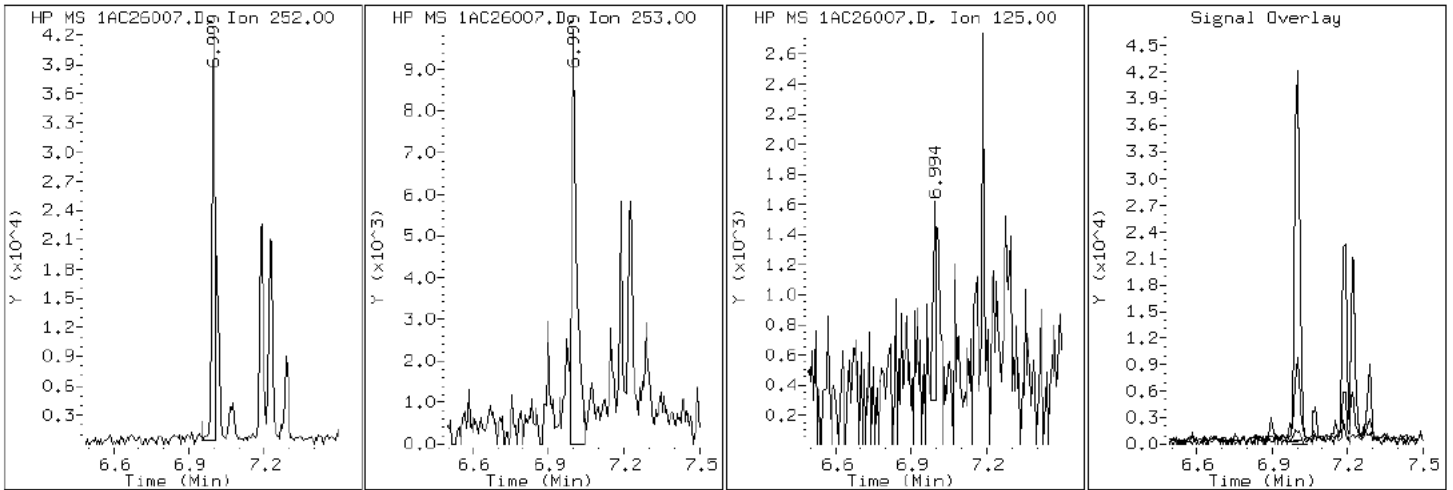
Client ID: CV1151A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-12-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC26007.D

Date: 26-MAR-2013 12:30

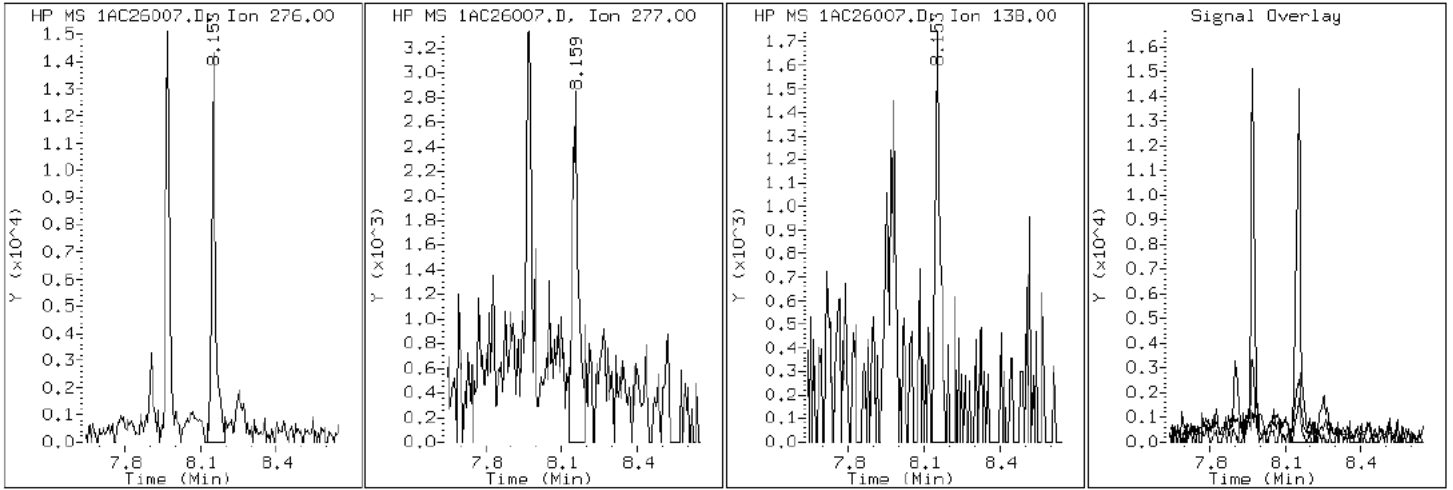
Client ID: CV1151A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-12-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC26007.D

Date: 26-MAR-2013 12:30

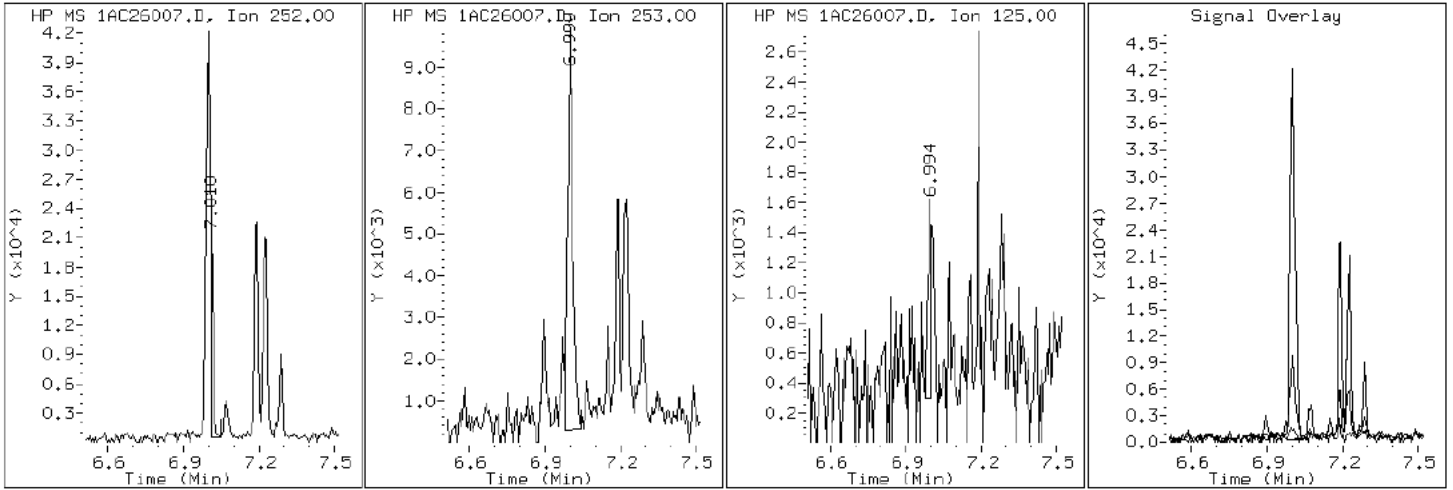
Client ID: CV1151A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-12-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC26007.D

Date: 26-MAR-2013 12:30

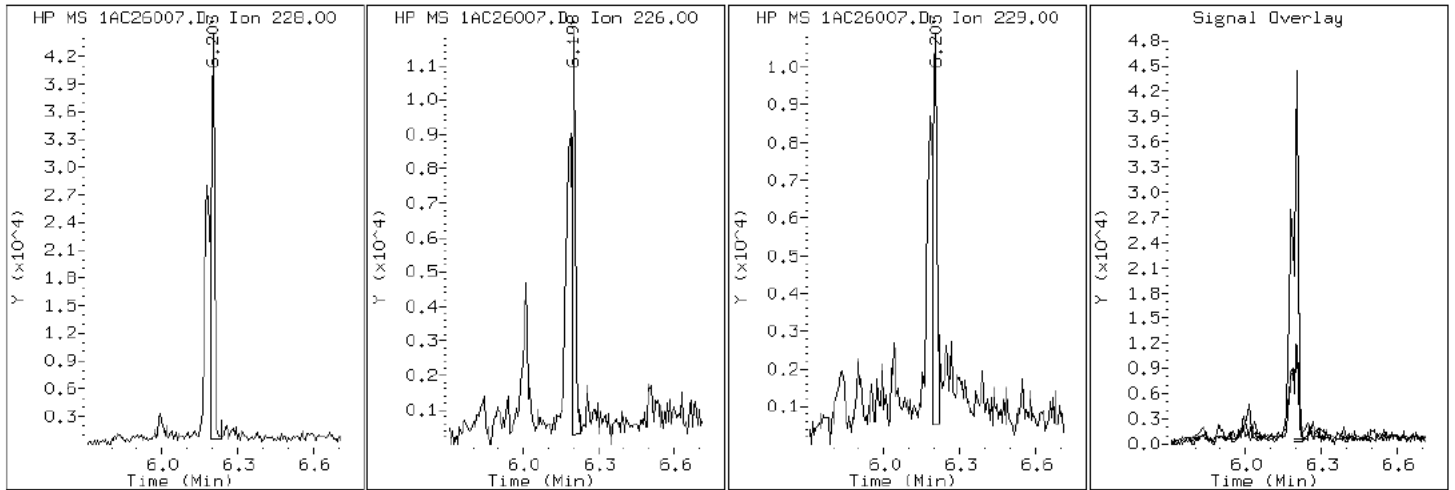
Client ID: CV1151A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-12-a

Operator: SCC

19 Chrysene



Data File: 1AC26007.D

Date: 26-MAR-2013 12:30

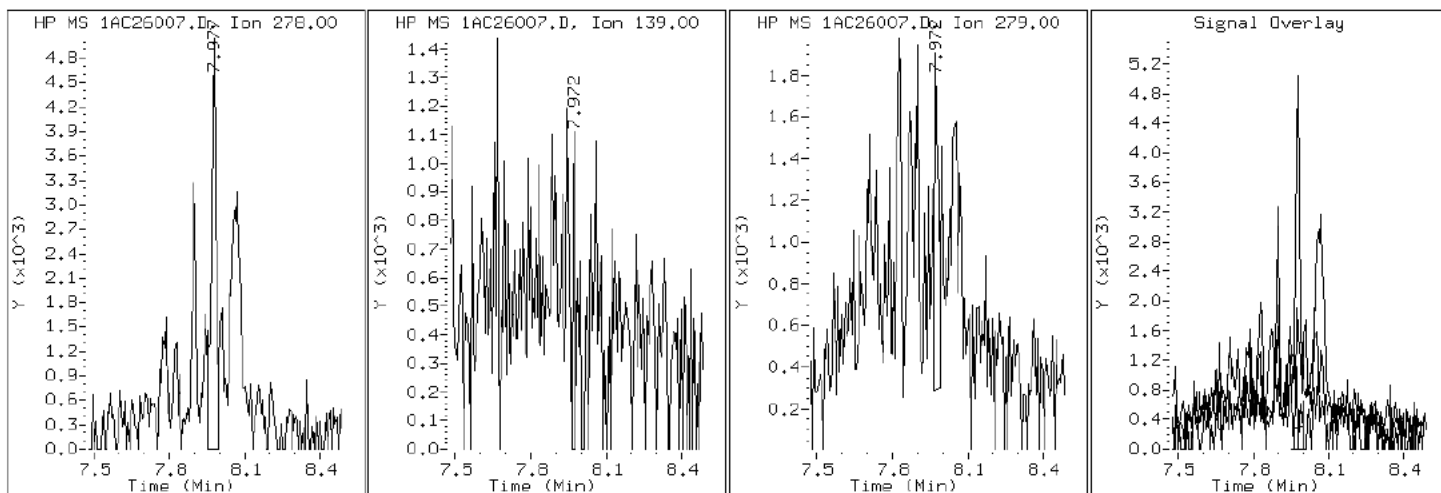
Client ID: CV1151A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-12-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC26007.D

Date: 26-MAR-2013 12:30

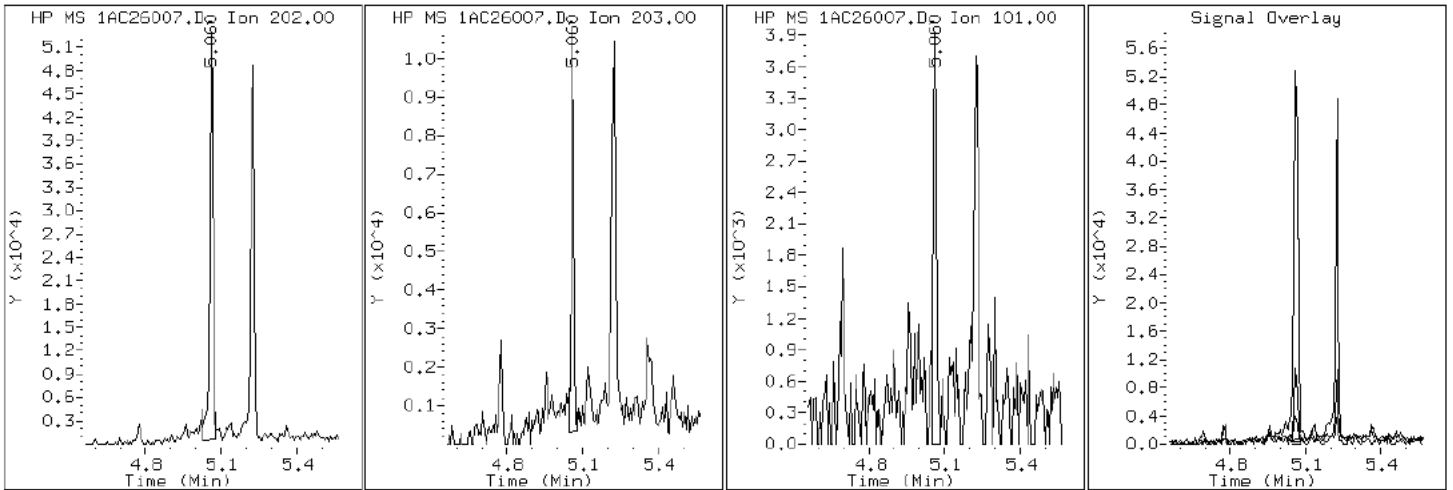
Client ID: CV1151A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-12-a

Operator: SCC

15 Fluoranthene



Data File: 1AC26007.D

Date: 26-MAR-2013 12:30

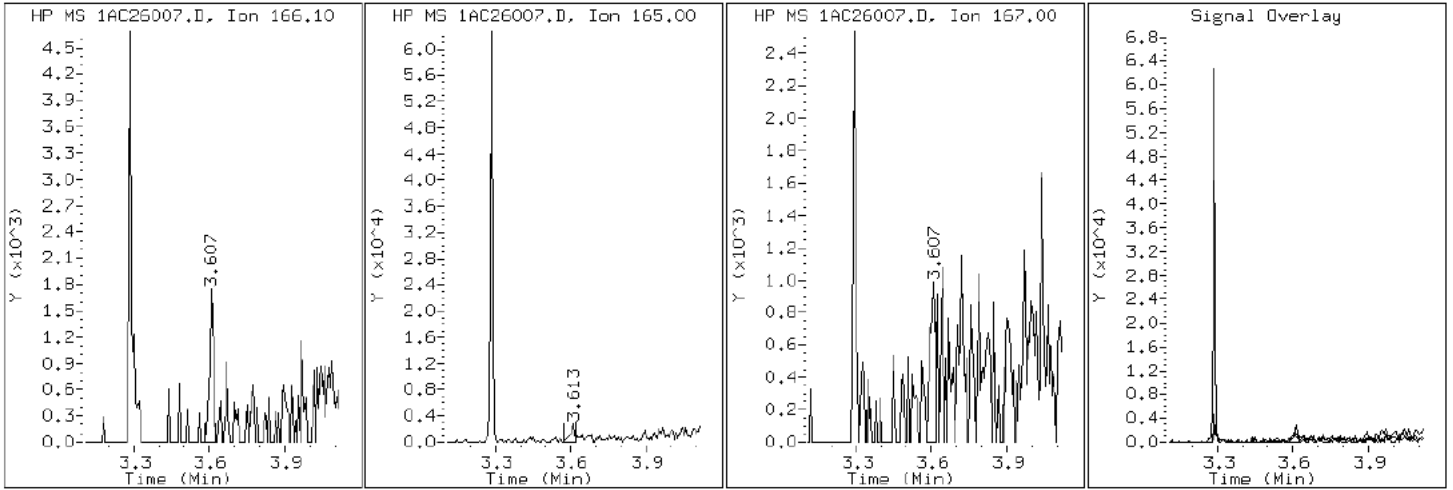
Client ID: CV1151A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-12-a

Operator: SCC

9 Fluorene





Data File: 1AC26007.D

Date: 26-MAR-2013 12:30

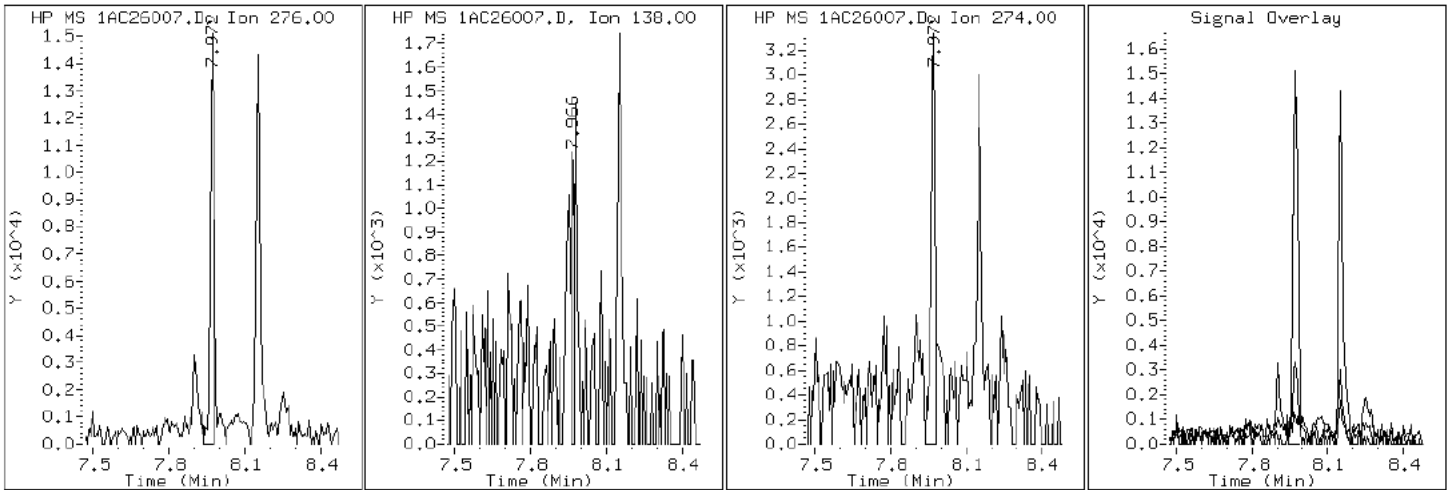
Client ID: CV1151A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-12-a

Operator: SCC

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



Data File: 1AC26007.D

Date: 26-MAR-2013 12:30

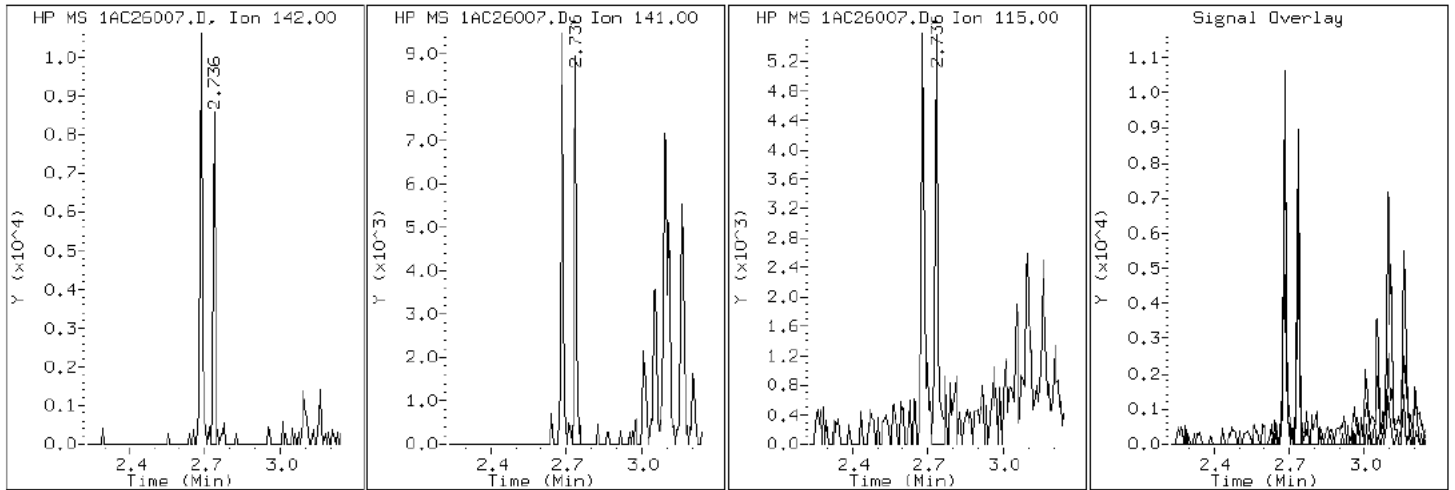
Client ID: CV1151A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-12-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC26007.D

Date: 26-MAR-2013 12:30

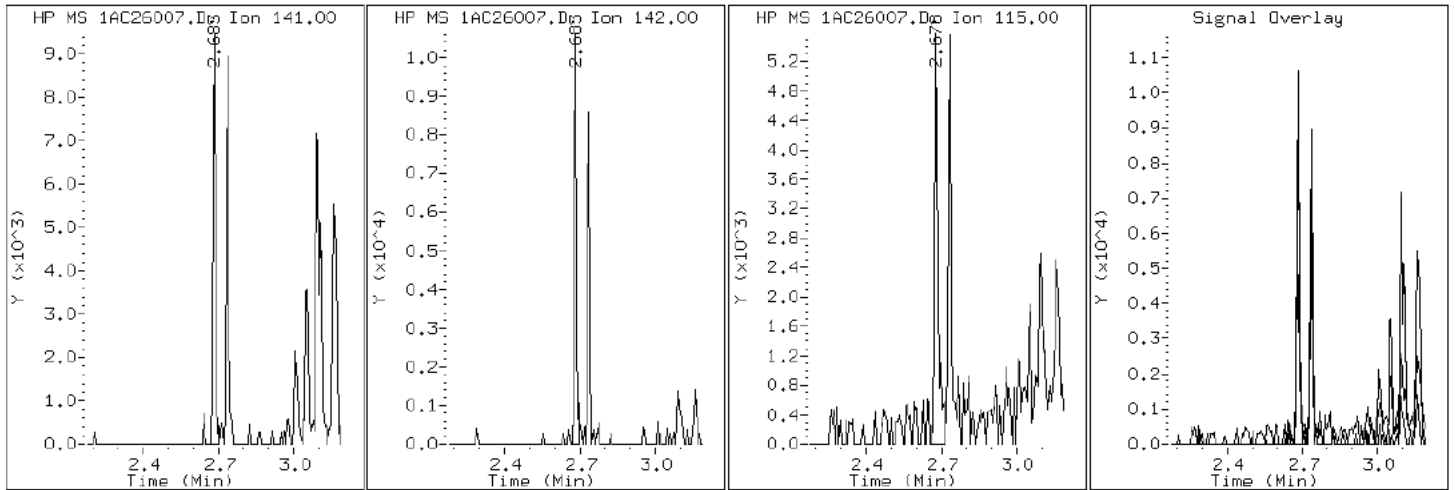
Client ID: CV1151A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-12-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC26007.D

Date: 26-MAR-2013 12:30

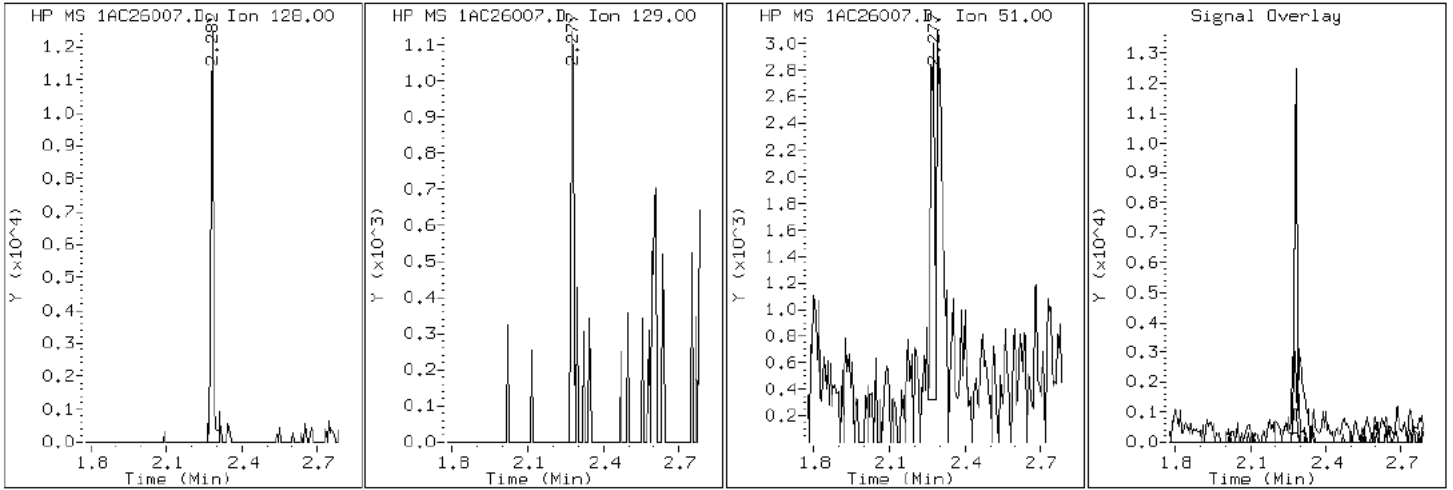
Client ID: CV1151A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-12-a

Operator: SCC

2 Naphthalene



Data File: 1AC26007.D

Date: 26-MAR-2013 12:30

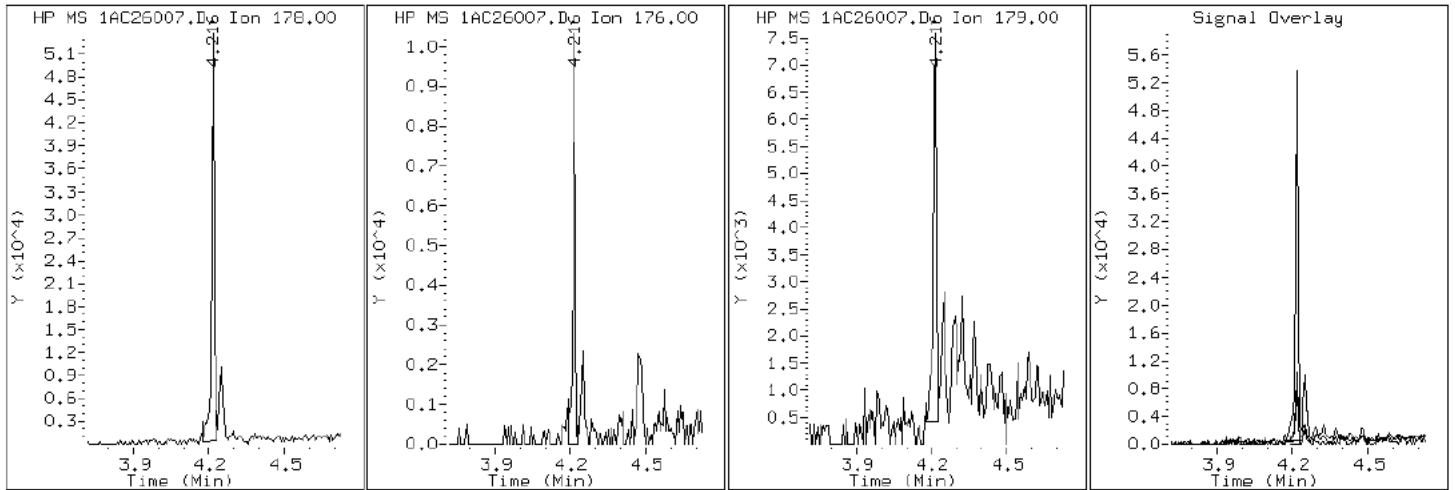
Client ID: CV1151A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-12-a

Operator: SCC

11 Phenanthrene



Data File: 1AC26007.D

Date: 26-MAR-2013 12:30

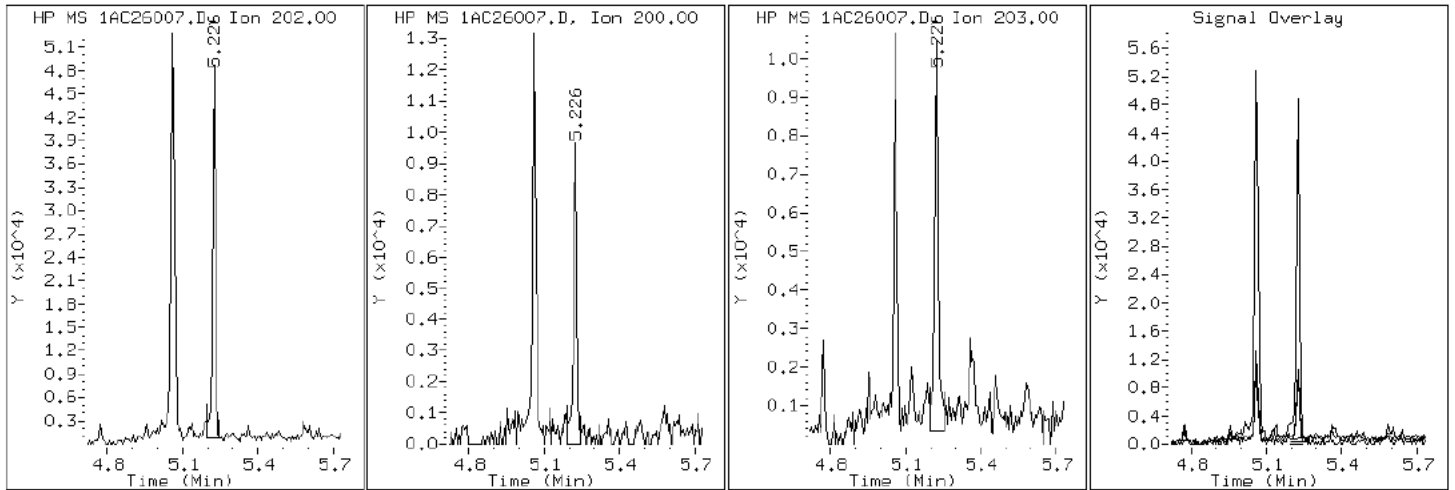
Client ID: CV1151A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-12-a

Operator: SCC

16 Pyrene

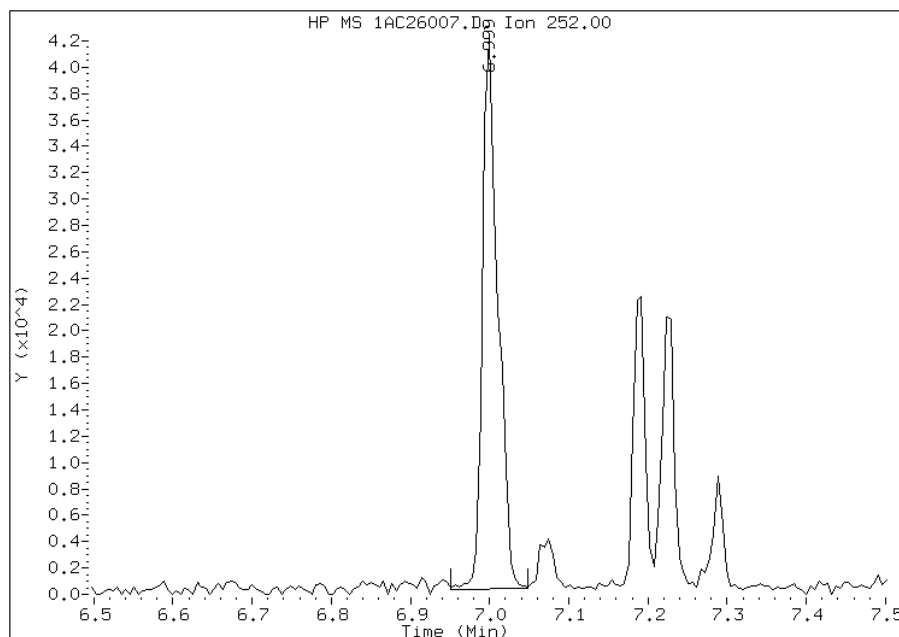


# Manual Integration Report

Data File: 1AC26007.D  
Inj. Date and Time: 26-MAR-2013 12:30  
Instrument ID: BSMA5973.i  
Client ID: CV1151A-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 03/28/2013

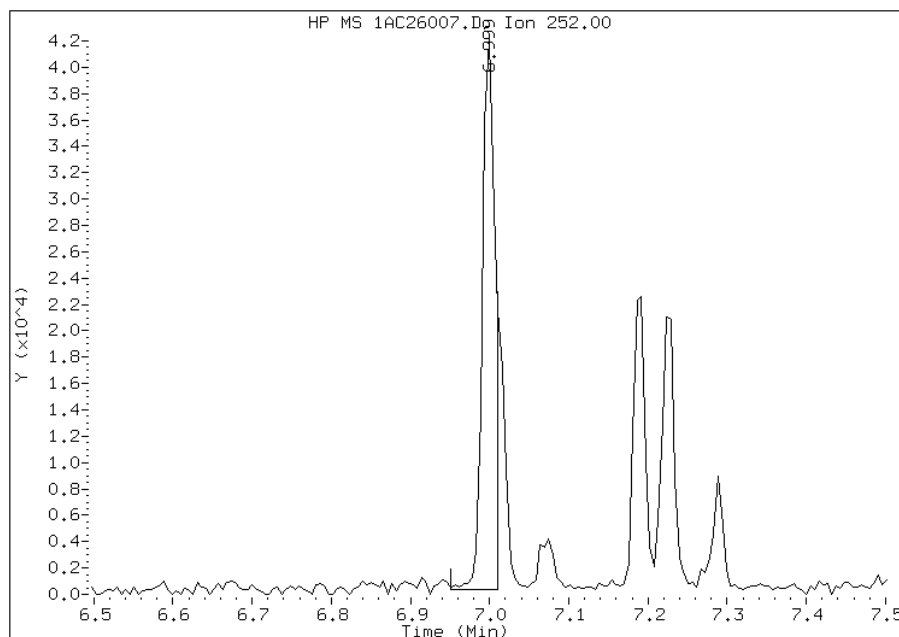
## Processing Integration Results

RT: 7.00  
Response: 56326  
Amount: 6  
Conc: 512



## Manual Integration Results

RT: 7.00  
Response: 46828  
Amount: 5  
Conc: 443



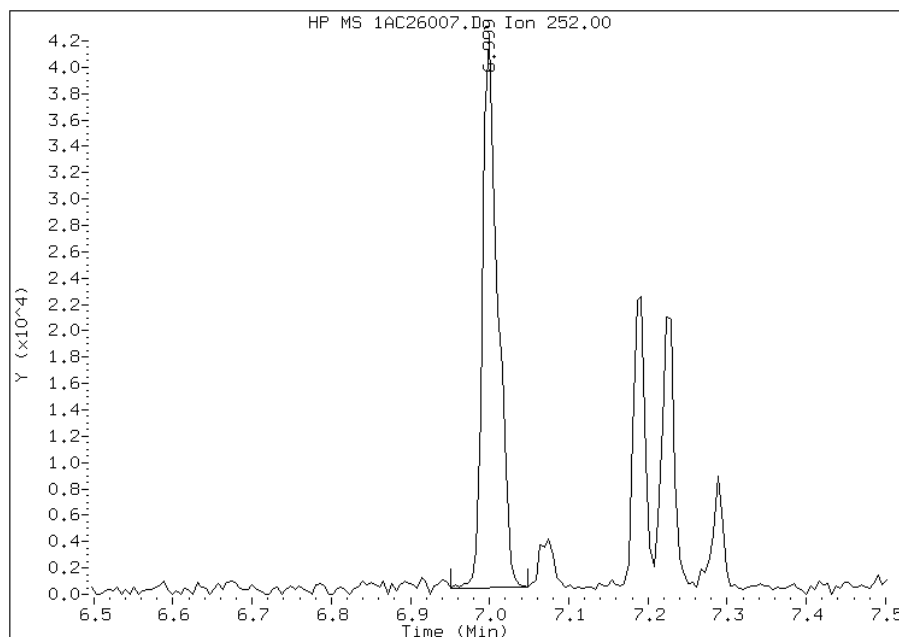
Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 11:03  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AC26007.D  
Inj. Date and Time: 26-MAR-2013 12:30  
Instrument ID: BSMA5973.i  
Client ID: CV1151A-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 03/28/2013

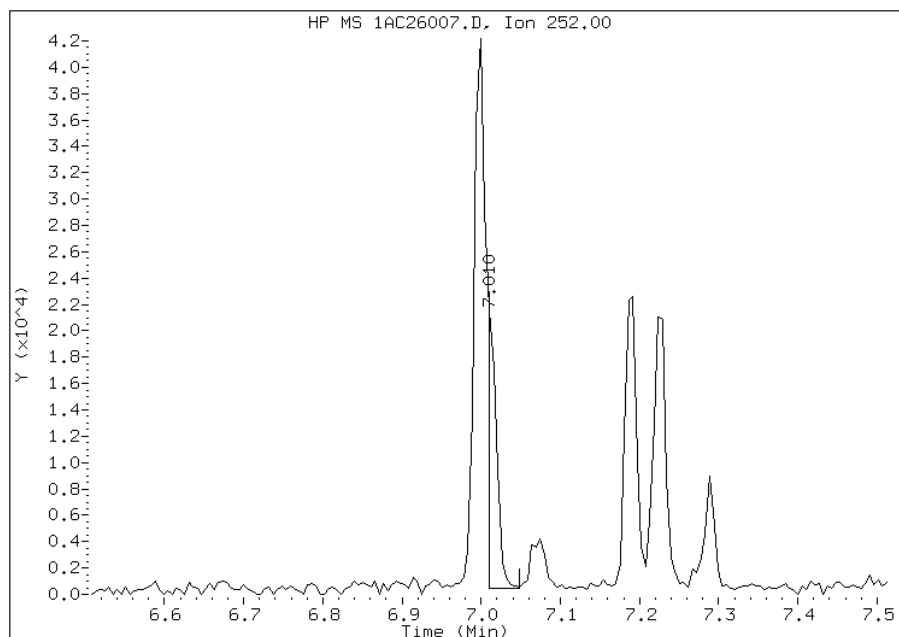
## Processing Integration Results

RT: 7.00  
Response: 55686  
Amount: 5  
Conc: 414



## Manual Integration Results

RT: 7.01  
Response: 16128  
Amount: 1  
Conc: 120



Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 11:03  
Manual Integration Reason: Baseline Event

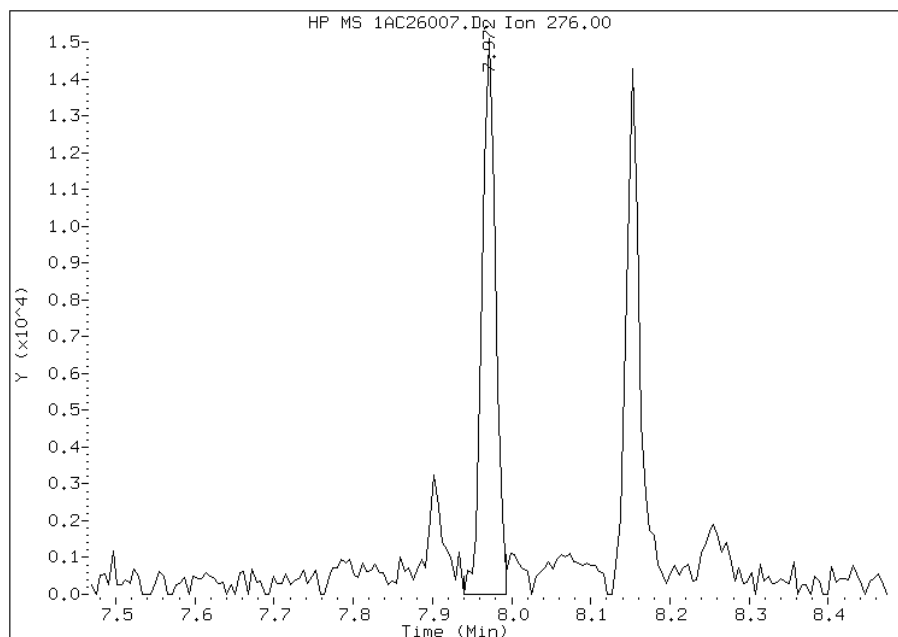


# Manual Integration Report

Data File: 1AC26007.D  
Inj. Date and Time: 26-MAR-2013 12:30  
Instrument ID: BSMA5973.i  
Client ID: CV1151A-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/28/2013

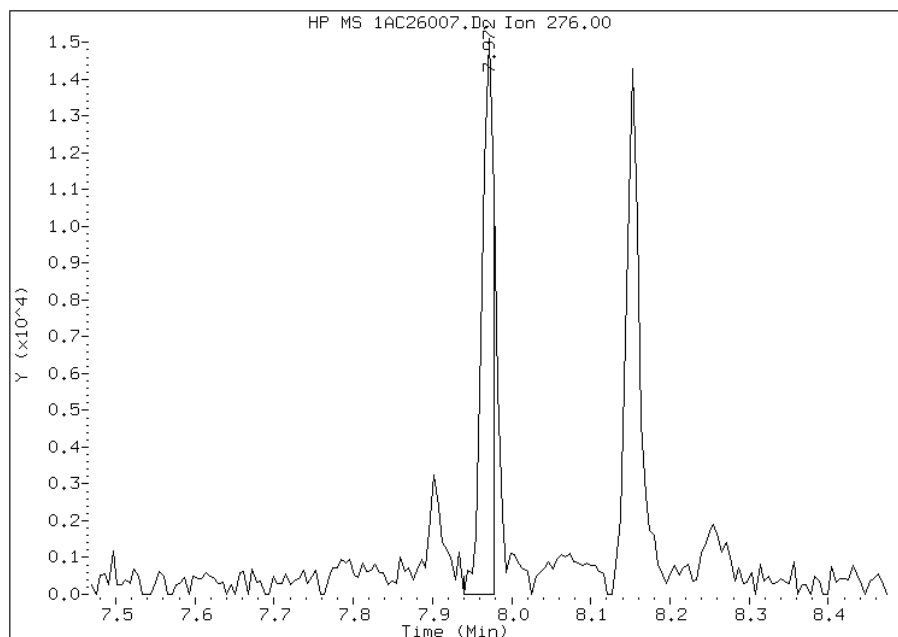
## Processing Integration Results

RT: 7.97  
Response: 17870  
Amount: 2  
Conc: 169



## Manual Integration Results

RT: 7.97  
Response: 15183  
Amount: 2  
Conc: 144



Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 11:04  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: CV1151B-CS-SP Lab Sample ID: 680-88420-13  
 Matrix: Solid Lab File ID: 1AC21032.D  
 Analysis Method: 8270C LL Date Collected: 03/14/2013 11:27  
 Extract. Method: 3546 Date Extracted: 03/21/2013 08:38  
 Sample wt/vol: 15.33(g) Date Analyzed: 03/21/2013 23:00  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 19.2 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135630 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	36	J	48	6.1
120-12-7	Anthracene	30		10	5.1
56-55-3	Benzo[a]anthracene	140		9.7	4.7
50-32-8	Benzo[a]pyrene	71		13	6.3
205-99-2	Benzo[b]fluoranthene	220		15	7.4
191-24-2	Benzo[g,h,i]perylene	86		24	5.3
207-08-9	Benzo[k]fluoranthene	66		9.7	4.4
218-01-9	Chrysene	140		11	5.4
53-70-3	Dibenz(a,h)anthracene	40		24	5.0
206-44-0	Fluoranthene	170		24	4.8
86-73-7	Fluorene	24	U	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	68		24	8.6
90-12-0	1-Methylnaphthalene	52		48	5.3
91-57-6	2-Methylnaphthalene	140		48	8.6
91-20-3	Naphthalene	67		48	5.3
85-01-8	Phenanthrene	120		9.7	4.7
129-00-0	Pyrene	150		24	4.5

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMA5973.i\1A032113.b\1AC21032.D  
 Lab Smp Id: 680-88420-A-13-A Client Smp ID: CV1151B-CS-SP  
 Inj Date : 21-MAR-2013 23:00  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-88420-a-13-a  
 Misc Info : 680-88420-A-13-A  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMA5973.i\1A032113.b\a-bFASTPAHi-m.m  
 Meth Date : 21-Mar-2013 17:07 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D  
 Als bottle: 27  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.330	Weight Extracted
M	19.204	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.292	2.282	(1.000)	517755	40.0000		
* 6 Acenaphthene-d10	164		3.312	3.302	(1.000)	425701	40.0000		
* 10 Phenanthrene-d10	188		4.236	4.221	(1.000)	667164	40.0000		
\$ 14 o-Terphenyl	230		4.503	4.499	(1.063)	48434	5.59500	451.7202	
* 18 Chrysene-d12	240		6.240	6.208	(1.000)	588937	40.0000	(H)	
* 23 Perylene-d12	264		7.335	7.292	(1.000)	760187	40.0000	(H)	
2 Naphthalene	128		2.302	2.292	(1.005)	9904	0.82796	66.8467	
3 2-Methylnaphthalene	141		2.703	2.693	(1.179)	5903	1.68530	136.0652	
4 1-Methylnaphthalene	142		2.756	2.752	(1.203)	4427	0.64362	51.9631	
5 Acenaphthylene	152		3.227	3.216	(0.974)	4182	0.44156	35.6499	
11 Phenanthrene	178		4.247	4.237	(1.003)	25623	1.51534	122.3429	
12 Anthracene	178		4.279	4.269	(1.010)	5992	0.36546	29.5063	
13 Carbazole	167		4.439	4.424	(1.048)	3284	0.22853	18.4503	
15 Fluoranthene	202		5.096	5.081	(1.203)	35907	2.14825	173.4420	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
16 Pyrene	202	5.262	5.246	(0.843)	30928	1.83156	147.8732(H)
17 Benzo(a)anthracene	228	6.223	6.197	(0.997)	27019	1.75042	141.3229(H)
19 Chrysene	228	6.245	6.224	(1.001)	27111	1.77734	143.4960(H)
20 Benzo(b)fluoranthene	252	7.046	7.015	(0.961)	31442	2.70373	218.2890(MH)
21 Benzo(k)fluoranthene	252	7.052	7.036	(0.961)	16729	0.81583	65.8675(MH)
22 Benzo(a)pyrene	252	7.276	7.244	(0.992)	15798	0.88554	71.4949(H)
24 Indeno(1,2,3-cd)pyrene	276	8.024	7.987	(1.094)	13575	0.84332	68.0864(MH)
25 Dibenzo(a,h)anthracene	278	8.034	7.998	(1.095)	7955	0.49863	40.2574(H)
26 Benzo(g,h,i)perylene	276	8.211	8.169	(1.119)	17183	1.06046	85.6174(H)

QC Flag Legend

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

Data File: 1AC21032.D

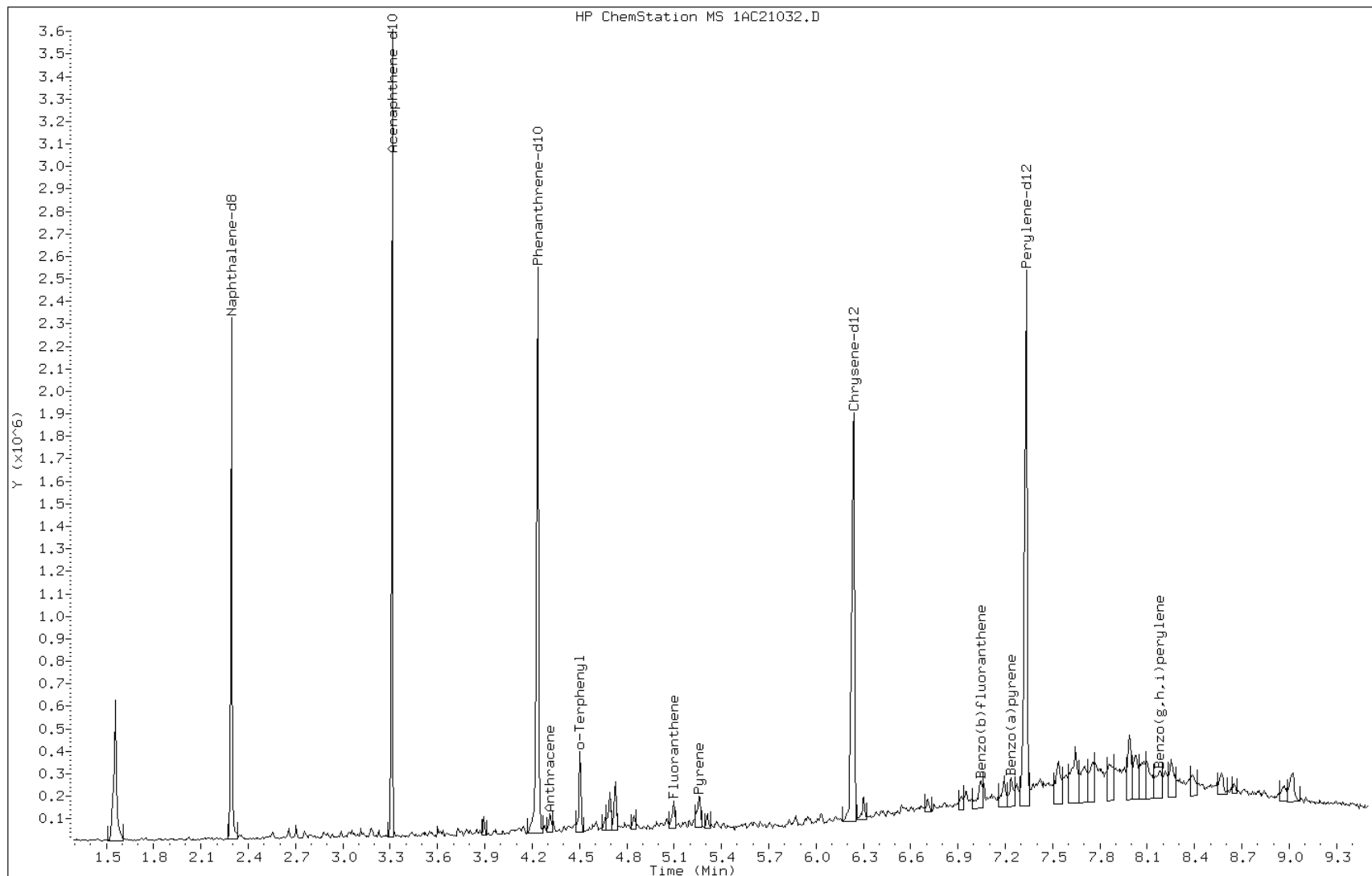
Date: 21-MAR-2013 23:00

Client ID: CV1151B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-13-a

Operator: SCC



Data File: 1AC21032.D

Date: 21-MAR-2013 23:00

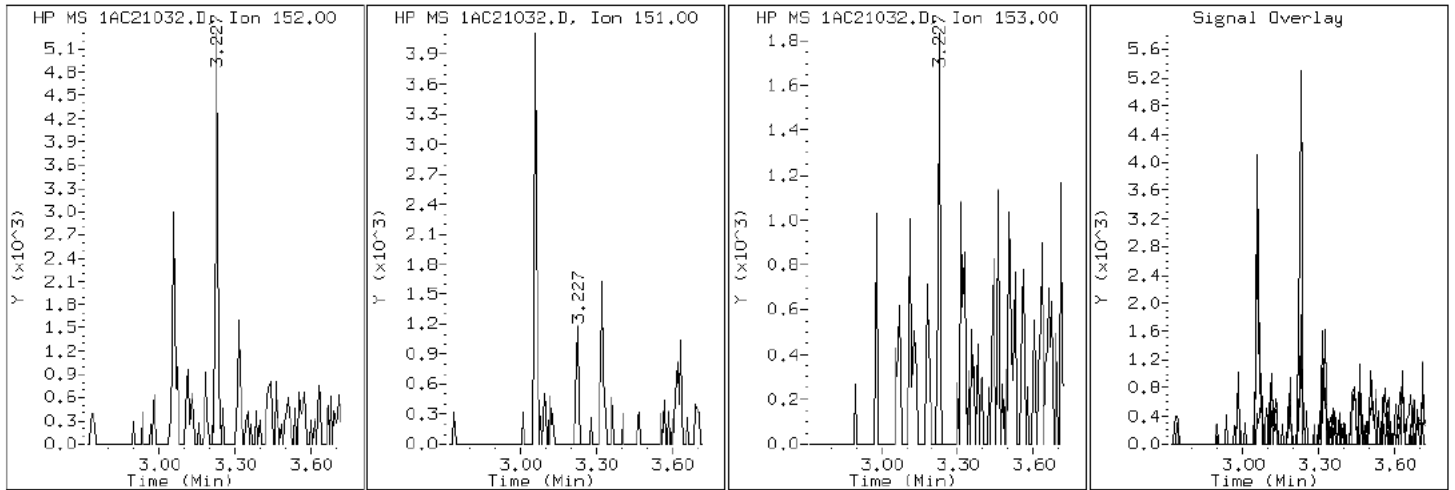
Client ID: CV1151B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-13-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC21032.D

Date: 21-MAR-2013 23:00

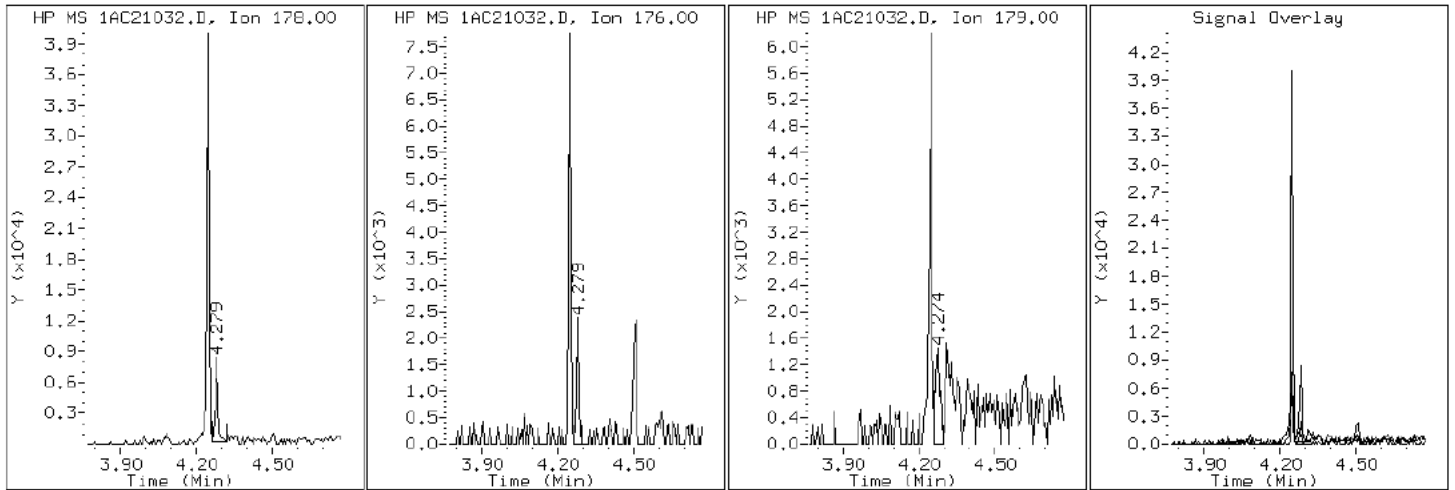
Client ID: CV1151B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-13-a

Operator: SCC

12 Anthracene



Data File: 1AC21032.D

Date: 21-MAR-2013 23:00

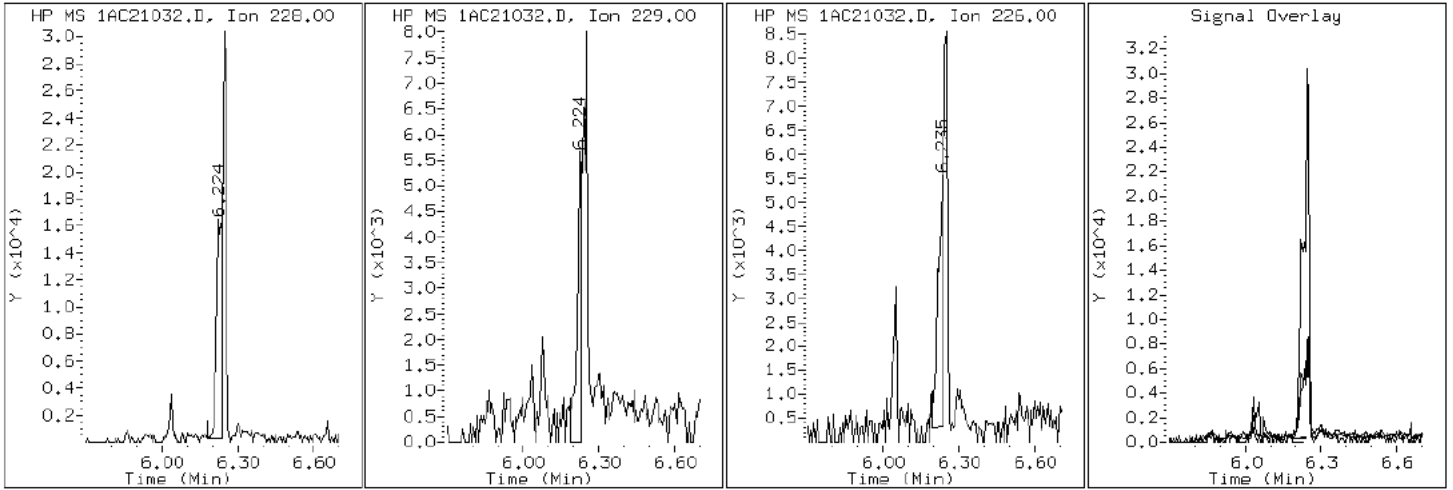
Client ID: CV1151B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-13-a

Operator: SCC

17 Benzo(a)anthracene





Data File: 1AC21032.D

Date: 21-MAR-2013 23:00

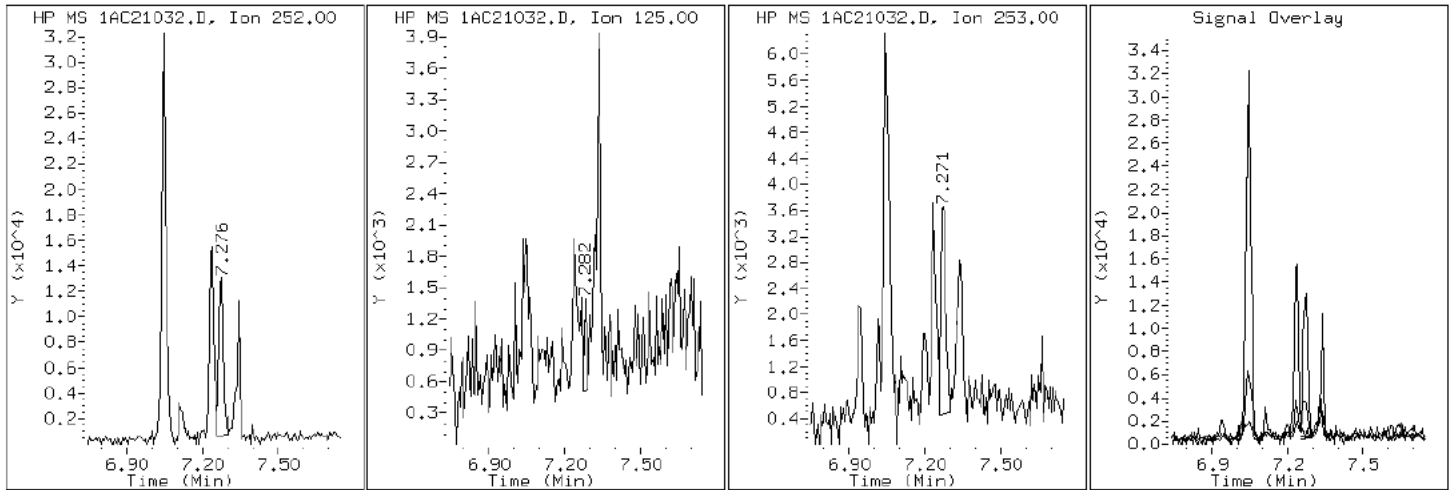
Client ID: CV1151B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-13-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC21032.D

Date: 21-MAR-2013 23:00

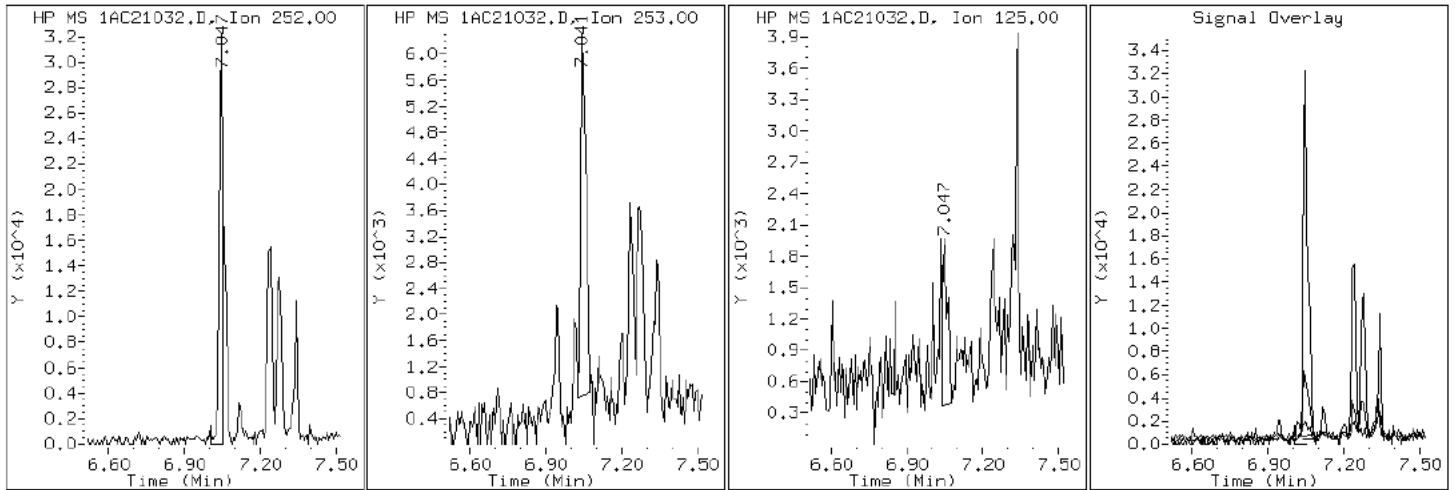
Client ID: CV1151B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-13-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC21032.D

Date: 21-MAR-2013 23:00

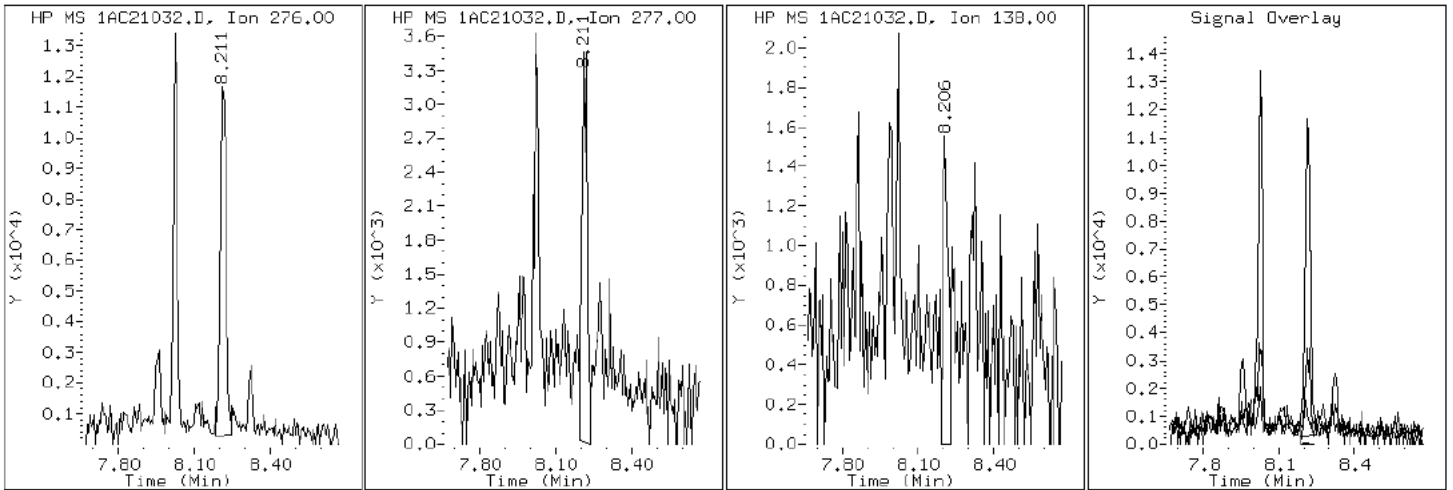
Client ID: CV1151B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-13-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC21032.D

Date: 21-MAR-2013 23:00

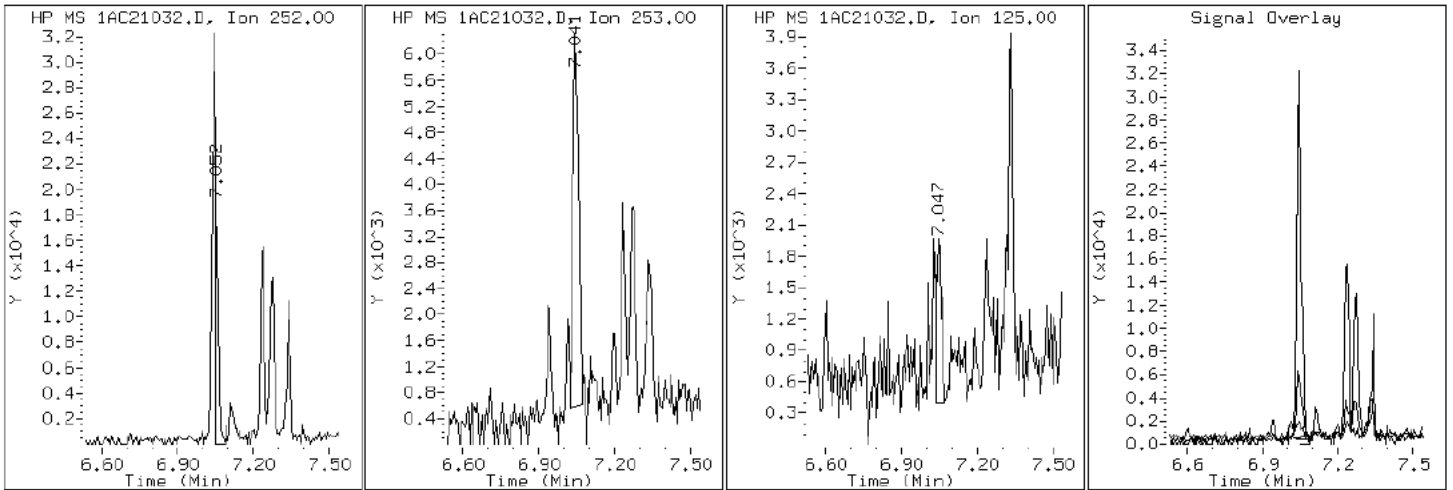
Client ID: CV1151B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-13-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC21032.D

Date: 21-MAR-2013 23:00

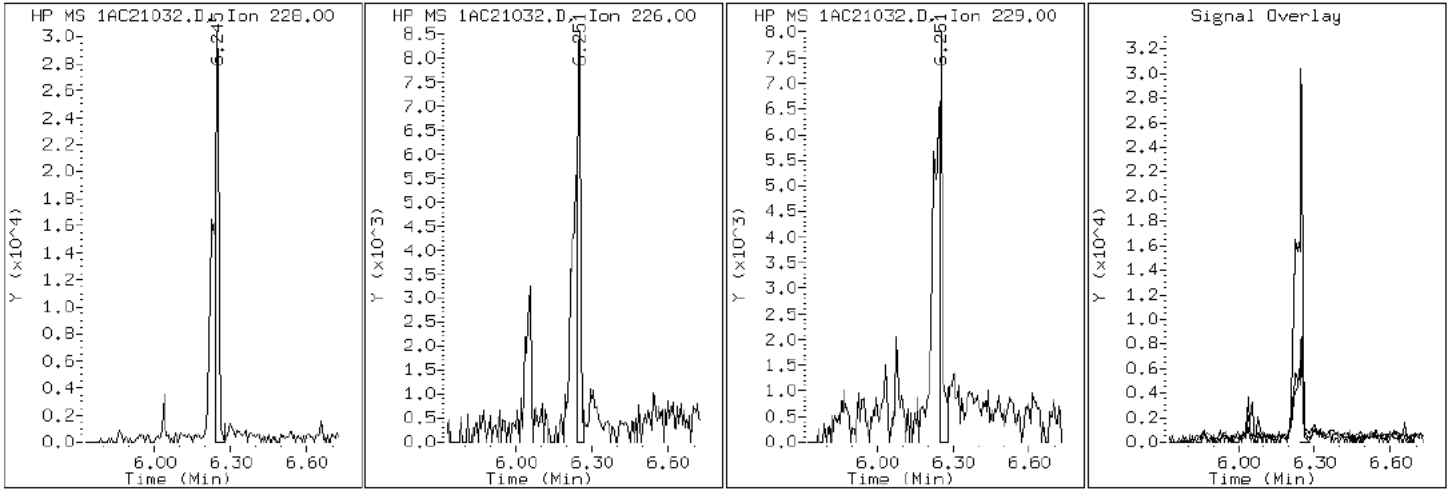
Client ID: CV1151B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-13-a

Operator: SCC

19 Chrysene



Data File: 1AC21032.D

Date: 21-MAR-2013 23:00

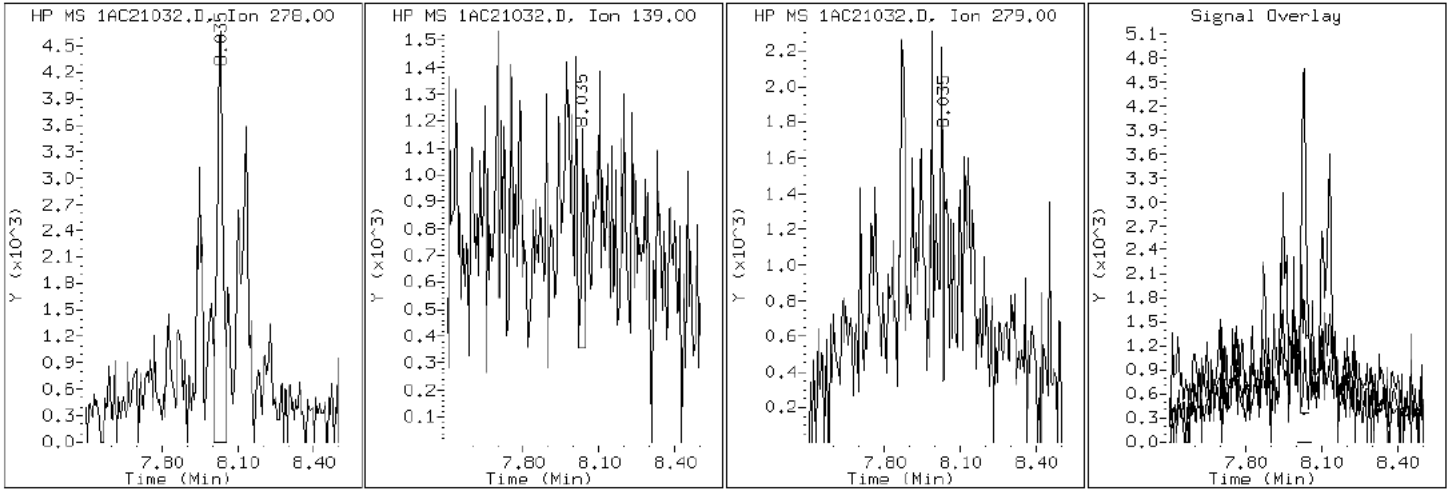
Client ID: CV1151B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-13-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC21032.D

Date: 21-MAR-2013 23:00

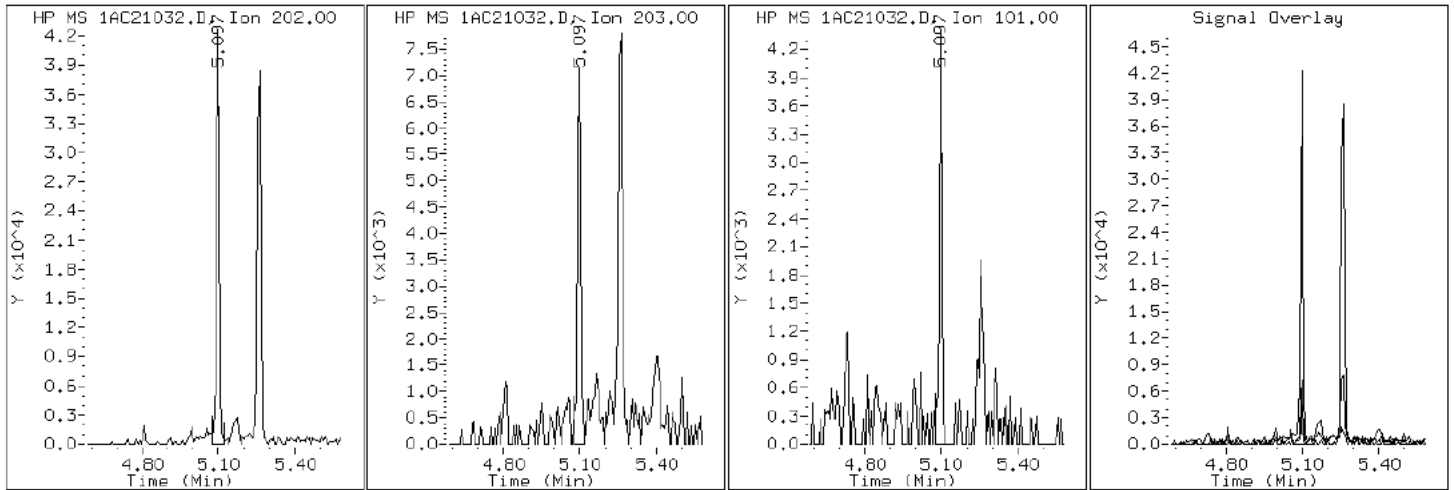
Client ID: CV1151B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-13-a

Operator: SCC

15 Fluoranthene



Data File: 1AC21032.D

Date: 21-MAR-2013 23:00

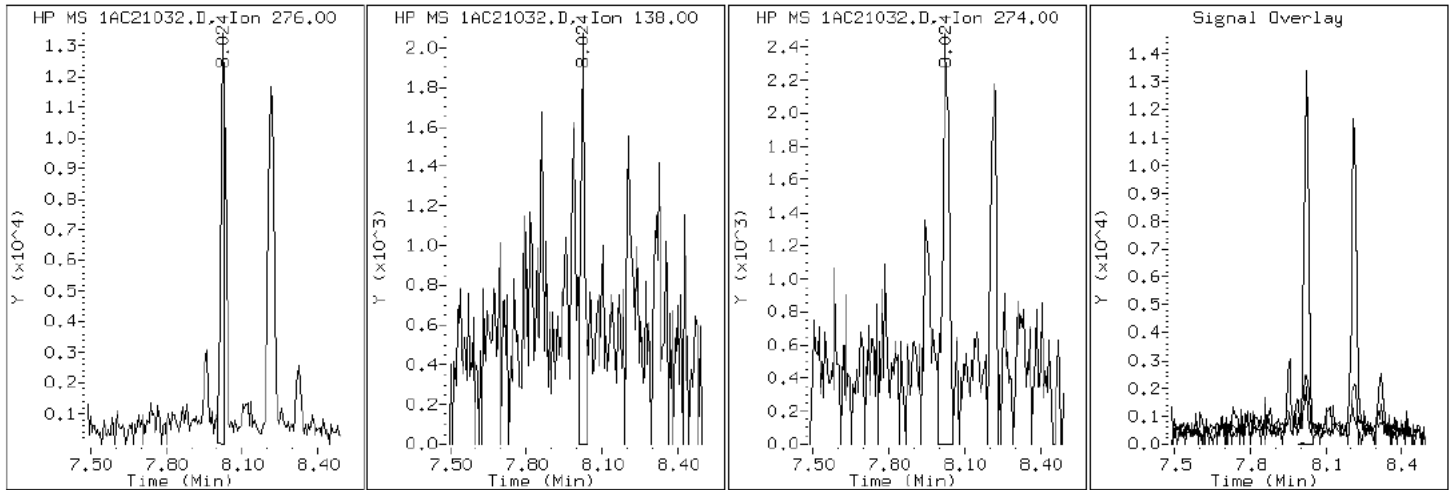
Client ID: CV1151B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-13-a

Operator: SCC

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





Data File: 1AC21032.D

Date: 21-MAR-2013 23:00

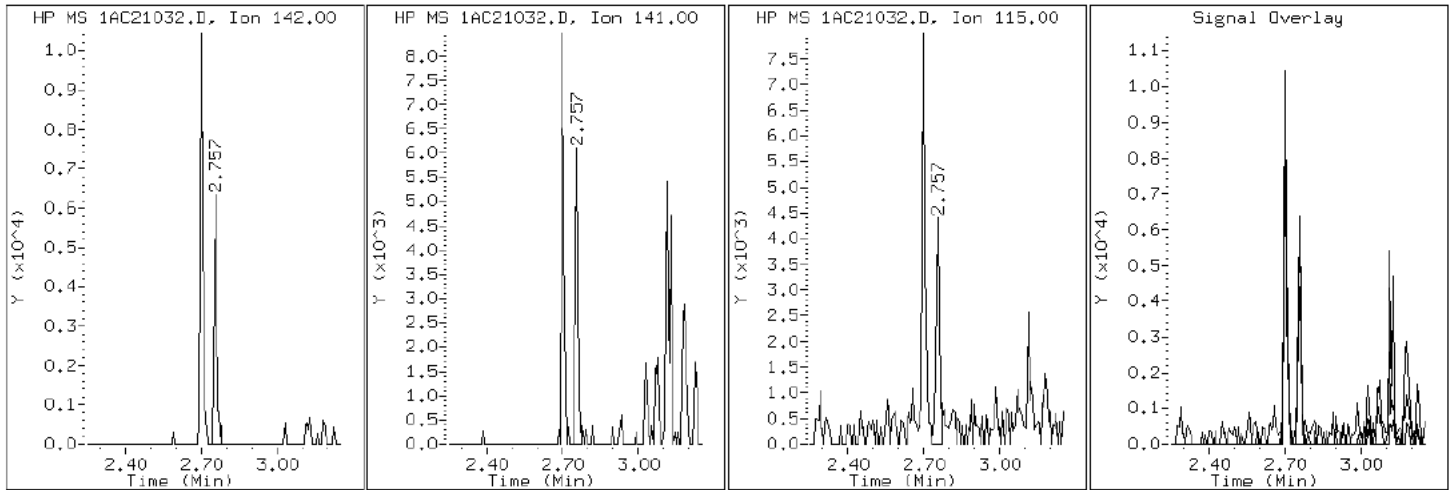
Client ID: CV1151B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-13-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC21032.D

Date: 21-MAR-2013 23:00

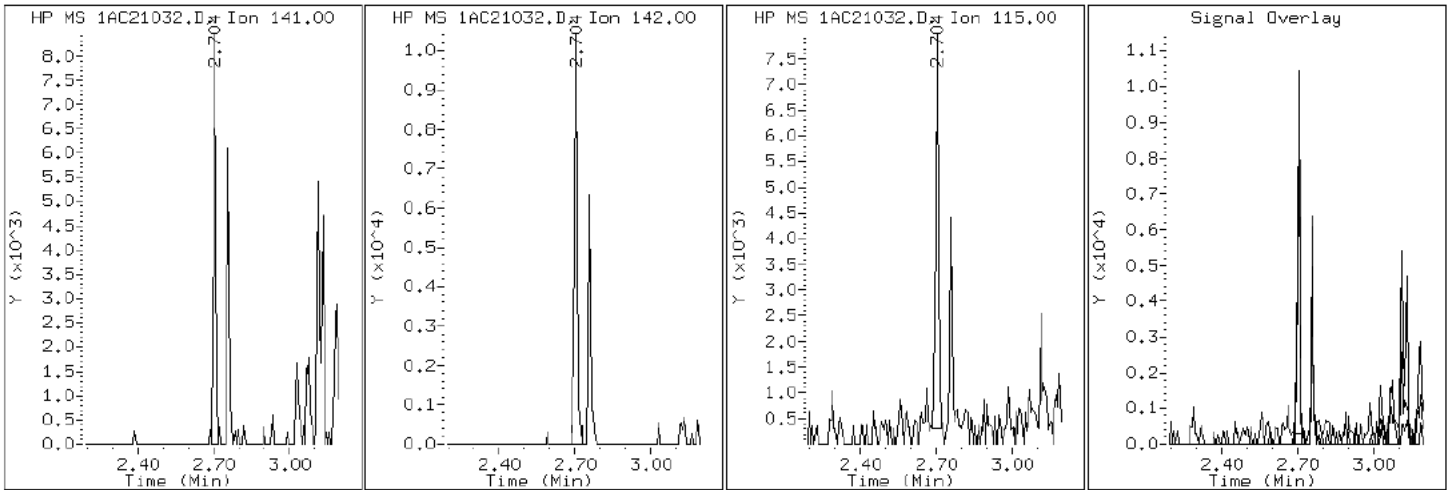
Client ID: CV1151B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-13-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC21032.D

Date: 21-MAR-2013 23:00

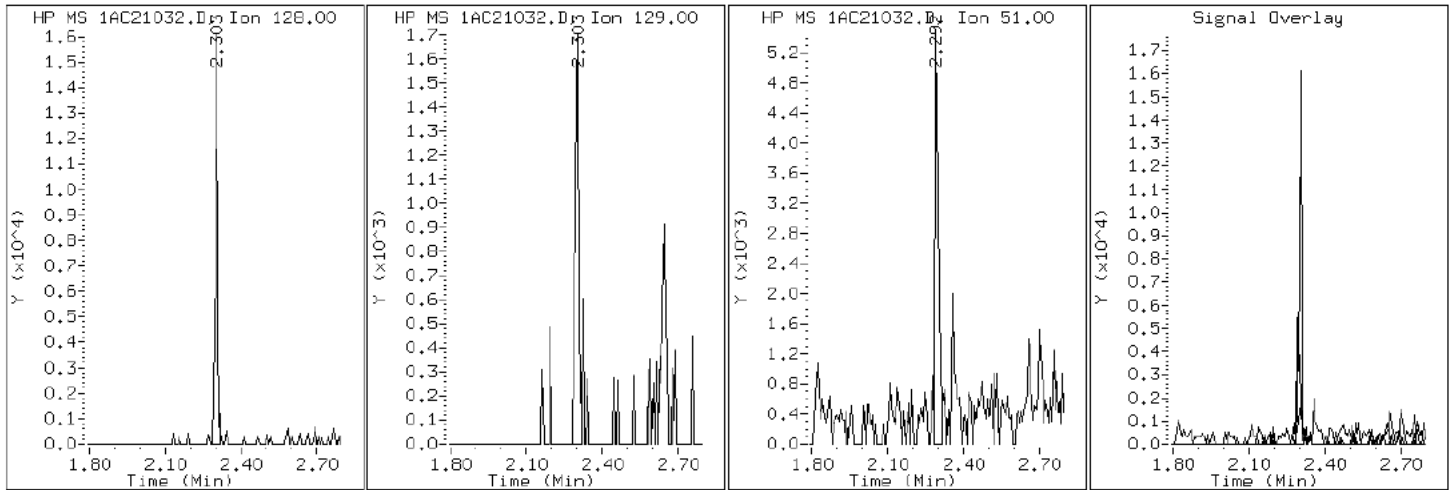
Client ID: CV1151B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-13-a

Operator: SCC

2 Naphthalene



Data File: 1AC21032.D

Date: 21-MAR-2013 23:00

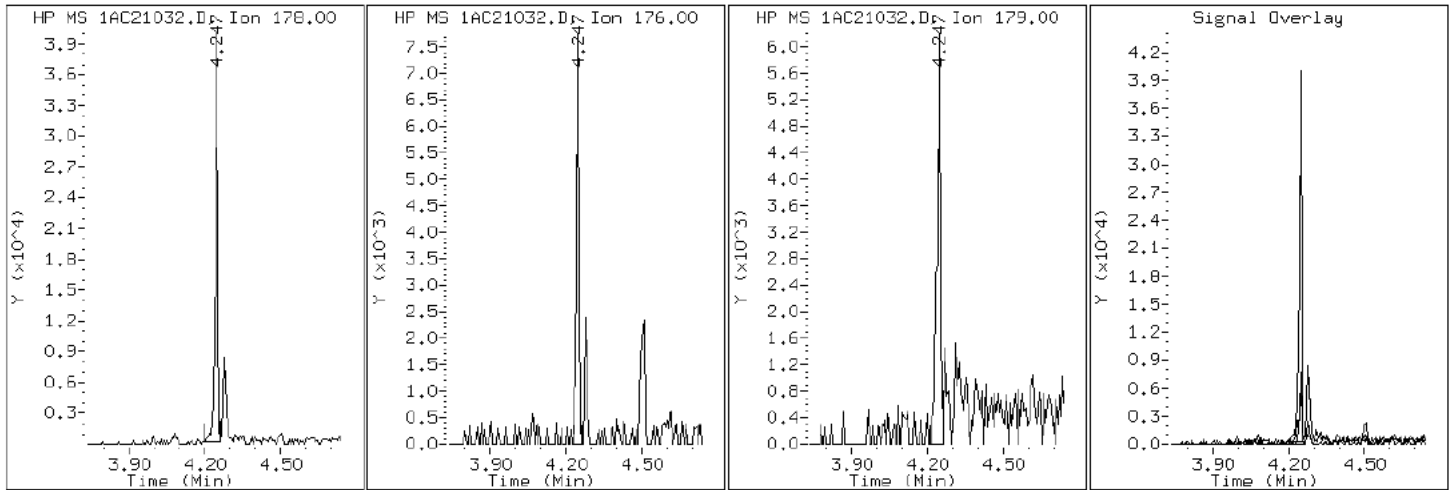
Client ID: CV1151B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-13-a

Operator: SCC

11 Phenanthrene



Data File: 1AC21032.D

Date: 21-MAR-2013 23:00

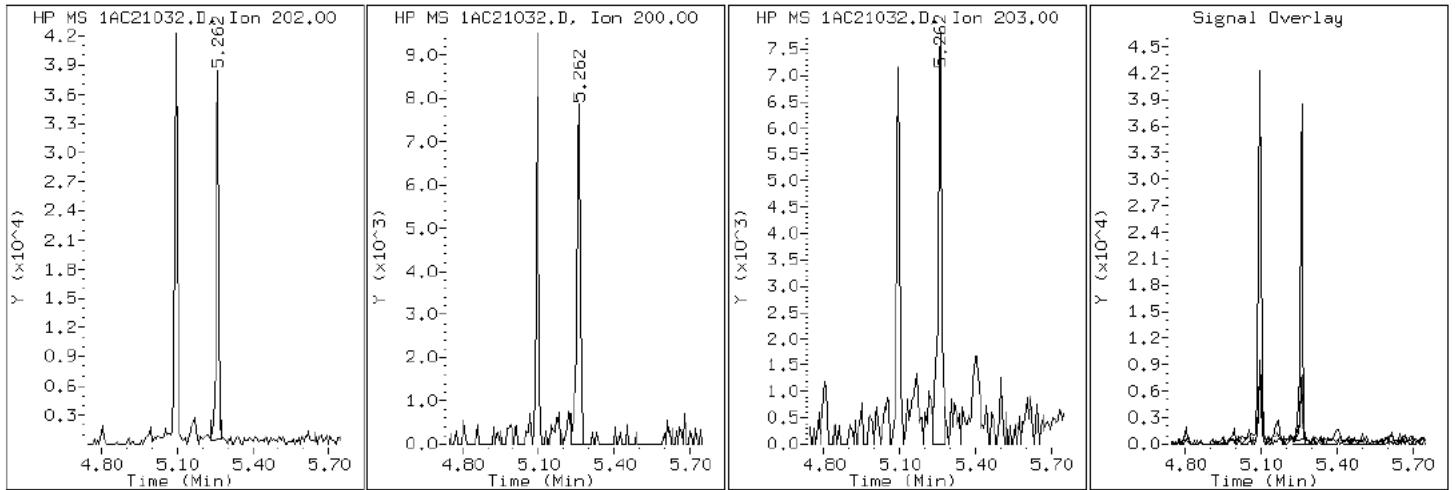
Client ID: CV1151B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-88420-a-13-a

Operator: SCC

16 Pyrene

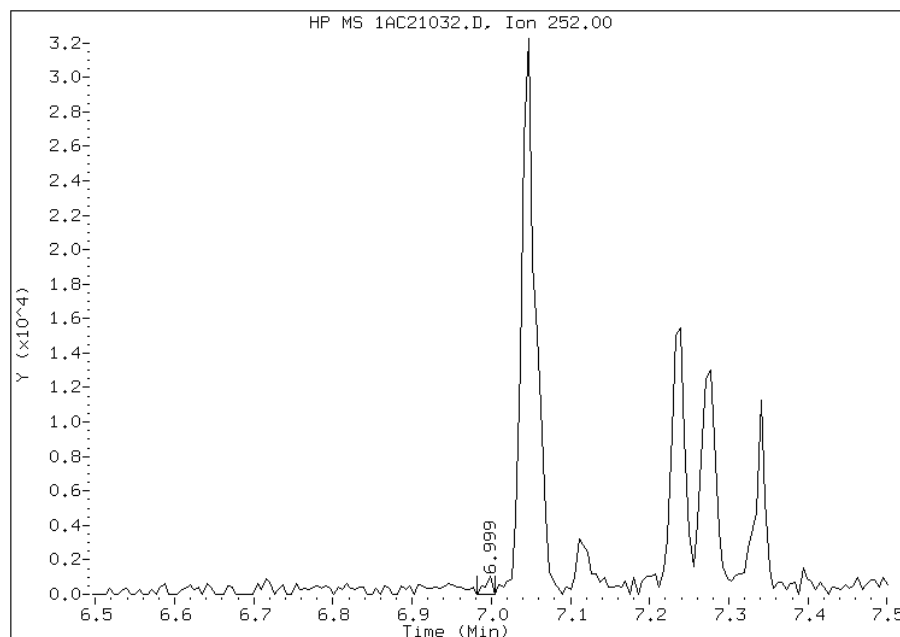


# Manual Integration Report

Data File: 1AC21032.D  
Inj. Date and Time: 21-MAR-2013 23:00  
Instrument ID: BSMA5973.i  
Client ID: CV1151B-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 03/26/2013

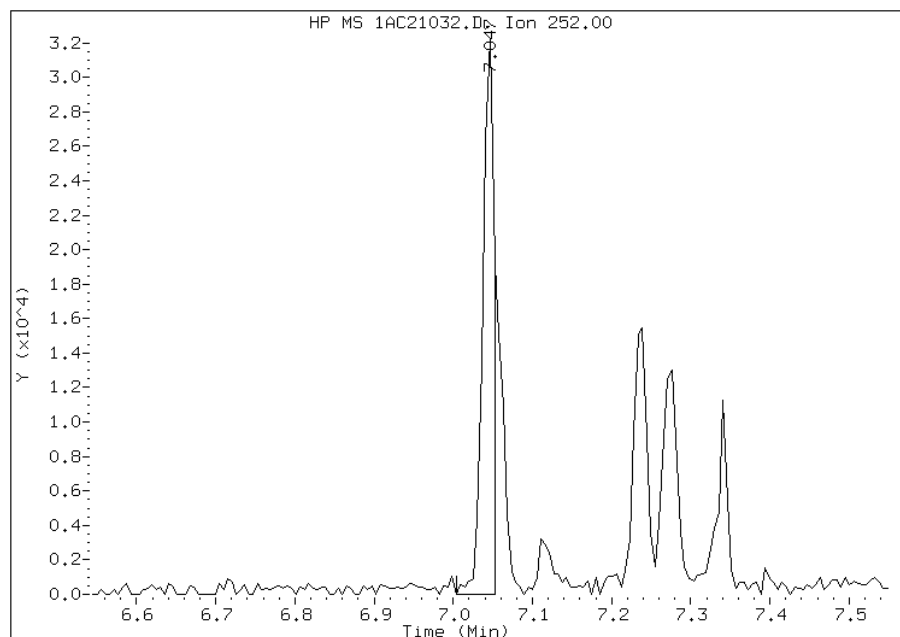
## Processing Integration Results

RT: 7.00  
Response: 624  
Amount: 1  
Conc: 100



## Manual Integration Results

RT: 7.05  
Response: 31442  
Amount: 3  
Conc: 218



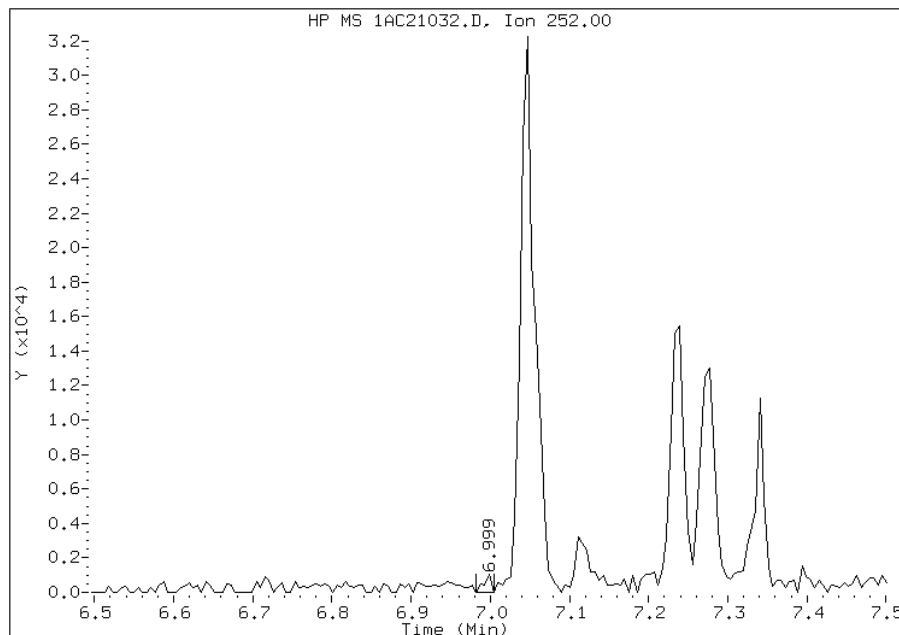
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:52  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AC21032.D  
Inj. Date and Time: 21-MAR-2013 23:00  
Instrument ID: BSMA5973.i  
Client ID: CV1151B-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 03/26/2013

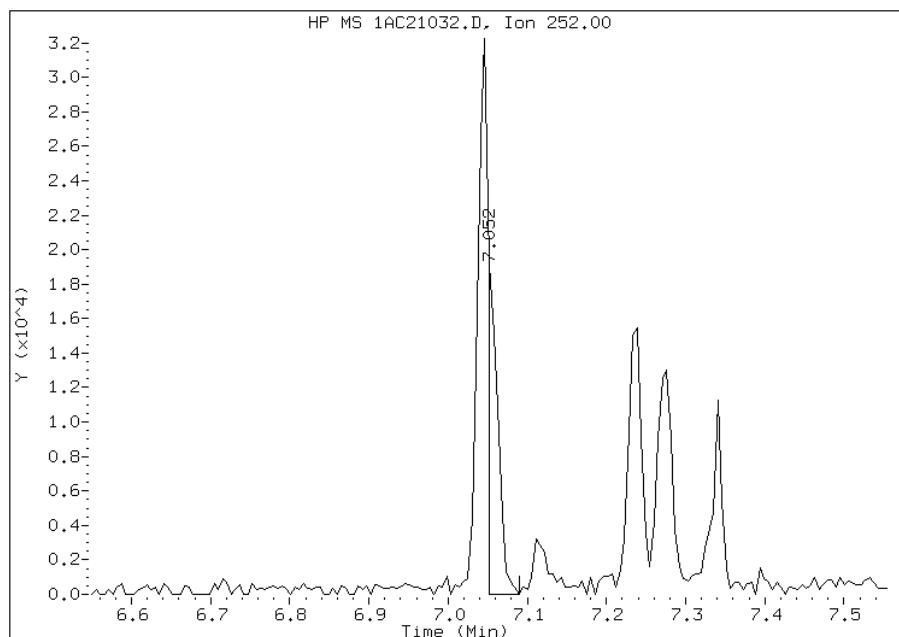
## Processing Integration Results

RT: 7.00  
Response: 624  
Amount: 0  
Conc: 2



## Manual Integration Results

RT: 7.05  
Response: 16729  
Amount: 1  
Conc: 66



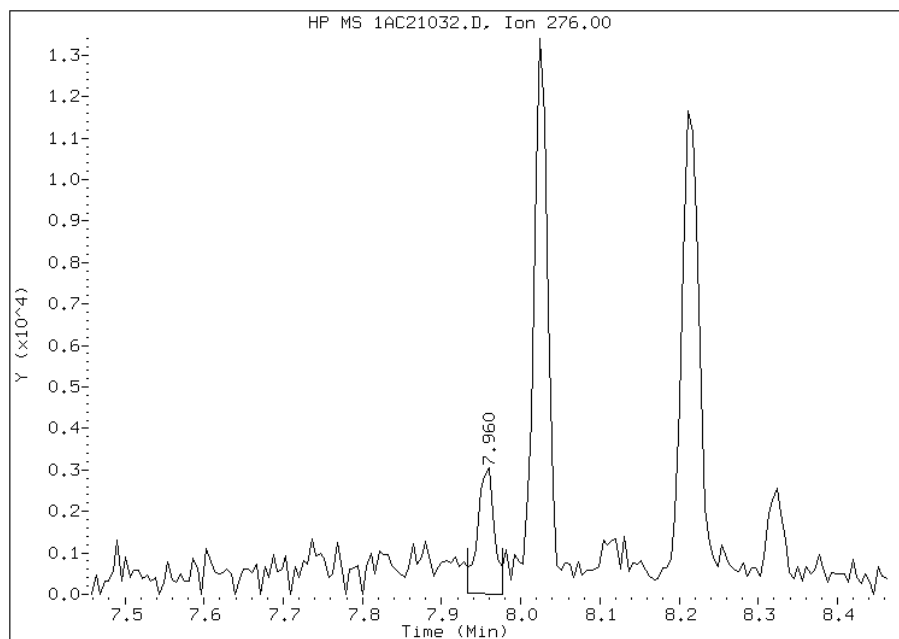
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:53  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AC21032.D  
Inj. Date and Time: 21-MAR-2013 23:00  
Instrument ID: BSMA5973.i  
Client ID: CV1151B-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/26/2013

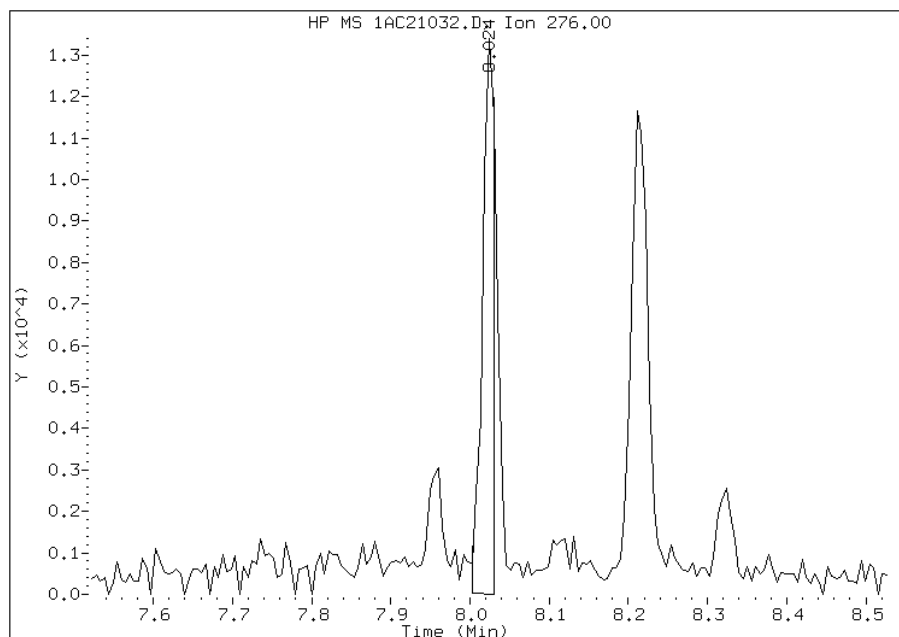
## Processing Integration Results

RT: 7.96  
Response: 4446  
Amount: 0  
Conc: 22



## Manual Integration Results

RT: 8.02  
Response: 13575  
Amount: 1  
Conc: 68



Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:53  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: CV0137A-CS Lab Sample ID: 680-88420-14  
 Matrix: Solid Lab File ID: 1AC21033.D  
 Analysis Method: 8270C LL Date Collected: 03/14/2013 12:20  
 Extract. Method: 3546 Date Extracted: 03/21/2013 08:38  
 Sample wt/vol: 14.90 (g) Date Analyzed: 03/21/2013 23:15  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: 21.4 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135630 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	30	J	51	6.4
120-12-7	Anthracene	27		11	5.4
56-55-3	Benzo[a]anthracene	120		10	5.0
50-32-8	Benzo[a]pyrene	51		13	6.7
205-99-2	Benzo[b]fluoranthene	170		16	7.8
191-24-2	Benzo[g,h,i]perylene	72		26	5.6
207-08-9	Benzo[k]fluoranthene	56		10	4.6
218-01-9	Chrysene	120		12	5.8
53-70-3	Dibenz(a,h)anthracene	36		26	5.2
206-44-0	Fluoranthene	120		26	5.1
86-73-7	Fluorene	26	U	26	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	62		26	9.1
90-12-0	1-Methylnaphthalene	61		51	5.6
91-57-6	2-Methylnaphthalene	130		51	9.1
91-20-3	Naphthalene	53		51	5.6
85-01-8	Phenanthrene	110		10	5.0
129-00-0	Pyrene	120		26	4.7

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\1AC21033.D  
 Lab Smp Id: 680-88420-A-14-A Client Smp ID: CV0137A-CS  
 Inj Date : 21-MAR-2013 23:15  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-88420-a-14-a  
 Misc Info : 680-88420-A-14-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\a-bFASTPAHi-m.m  
 Meth Date : 21-Mar-2013 17:07 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D  
 Als bottle: 28  
 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	21.379	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.290	2.282	(1.000)	576662	40.0000		
* 6 Acenaphthene-d10	164		3.311	3.302	(1.000)	464120	40.0000		
* 10 Phenanthrene-d10	188		4.235	4.221	(1.000)	648944	40.0000		
\$ 14 o-Terphenyl	230		4.507	4.499	(1.064)	46730	5.55137	473.8860	
* 18 Chrysene-d12	240		6.238	6.208	(1.000)	502632	40.0000		(H)
* 23 Perylene-d12	264		7.333	7.292	(1.000)	744031	40.0000		(H)
2 Naphthalene	128		2.301	2.292	(1.005)	8267	0.62051	52.9693	
3 2-Methylnaphthalene	141		2.702	2.693	(1.180)	5001	1.49277	127.4286	
4 1-Methylnaphthalene	142		2.755	2.752	(1.203)	5508	0.71898	61.3744	
5 Acenaphthylene	152		3.225	3.216	(0.974)	3091	0.35221	30.0659	
11 Phenanthrene	178		4.246	4.237	(1.003)	20361	1.23795	105.6763	
12 Anthracene	178		4.283	4.269	(1.011)	5097	0.31961	27.2827	
13 Carbazole	167		4.443	4.424	(1.049)	3242	0.23194	19.7990	
15 Fluoranthene	202		5.095	5.081	(1.203)	22186	1.36462	116.4887	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
16 Pyrene	202	5.261	5.246	(0.843)	19656	1.36390	116.4275(H)
17 Benzo(a)anthracene	228	6.228	6.197	(0.998)	17651	1.37935	117.7468(H)
19 Chrysene	228	6.244	6.224	(1.001)	18859	1.44865	123.6619(H)
20 Benzo(b)fluoranthene	252	7.045	7.015	(0.961)	15975	1.98190	169.1821(MH)
21 Benzo(k)fluoranthene	252	7.050	7.036	(0.961)	13112	0.65333	55.7704(MH)
22 Benzo(a)pyrene	252	7.275	7.244	(0.992)	10367	0.59373	50.6827(H)
24 Indeno(1,2,3-cd)pyrene	276	8.039	7.987	(1.096)	11456	0.72713	62.0708(MH)
25 Dibenzo(a,h)anthracene	278	8.039	7.998	(1.096)	6622	0.42409	36.2016(MH)
26 Benzo(g,h,i)perylene	276	8.226	8.169	(1.122)	13315	0.83958	71.6700(MH)

QC Flag Legend

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

Data File: 1AC21033.D

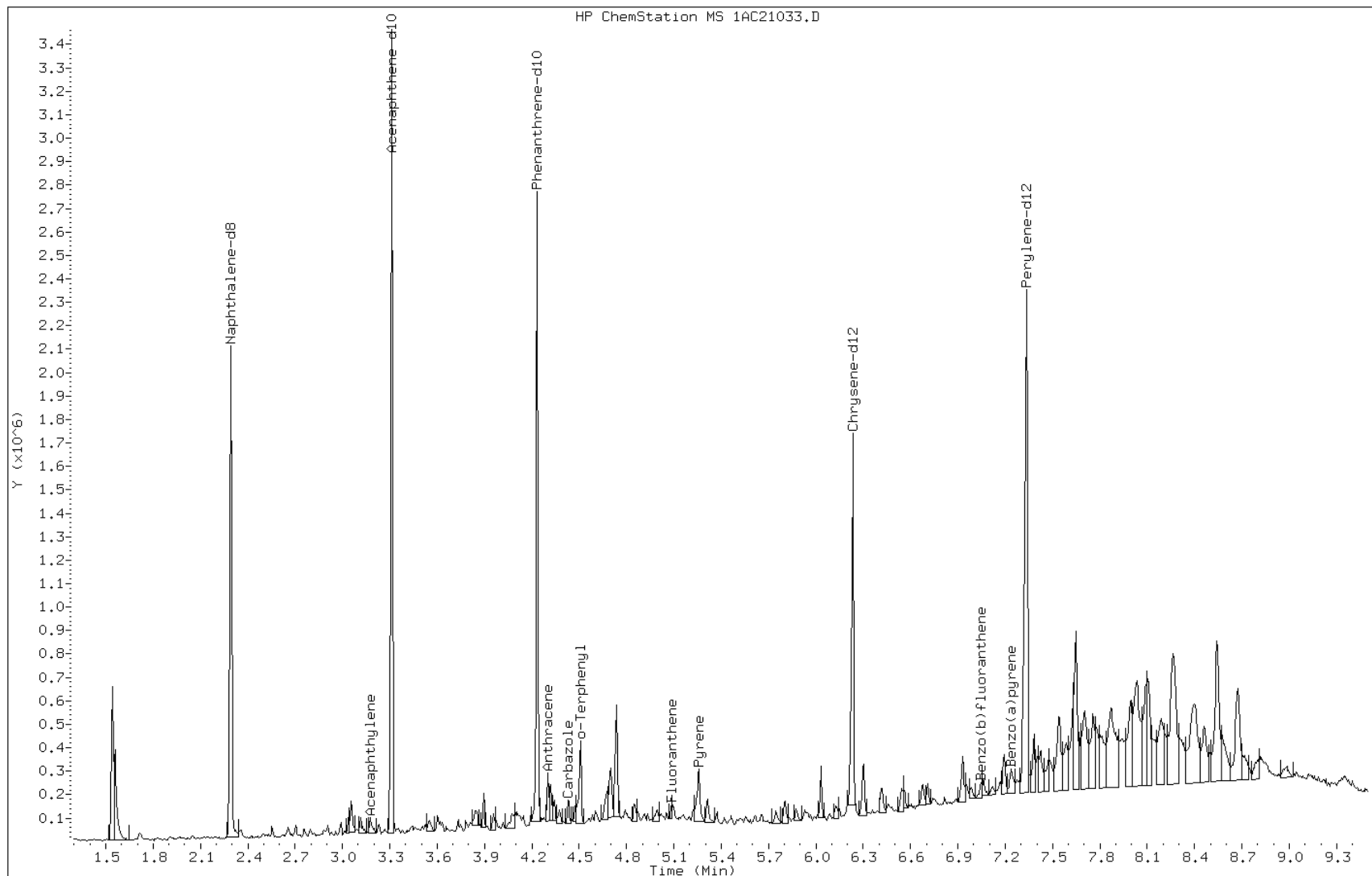
Date: 21-MAR-2013 23:15

Client ID: CV0137A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-14-a

Operator: SCC



Data File: 1AC21033.D

Date: 21-MAR-2013 23:15

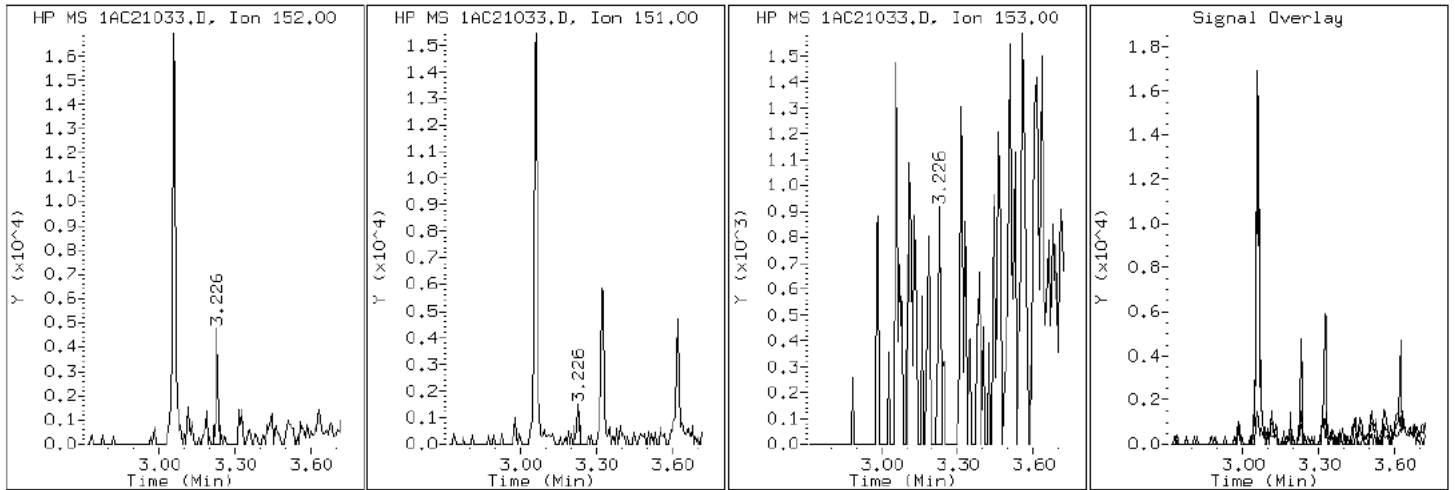
Client ID: CV0137A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-14-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC21033.D

Date: 21-MAR-2013 23:15

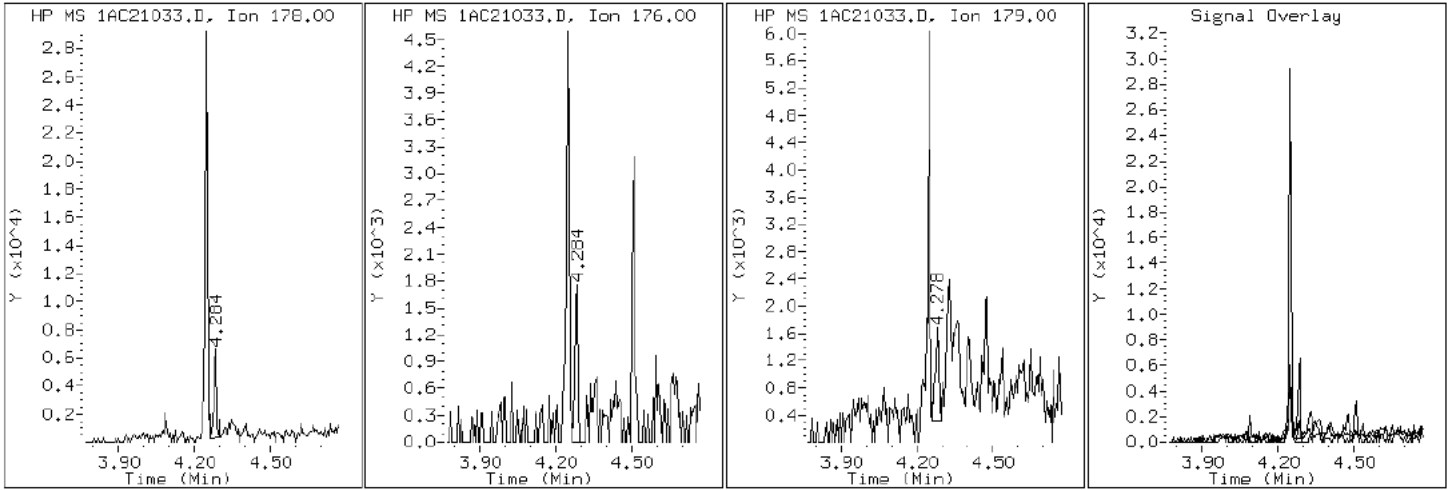
Client ID: CV0137A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-14-a

Operator: SCC

12 Anthracene



Data File: 1AC21033.D

Date: 21-MAR-2013 23:15

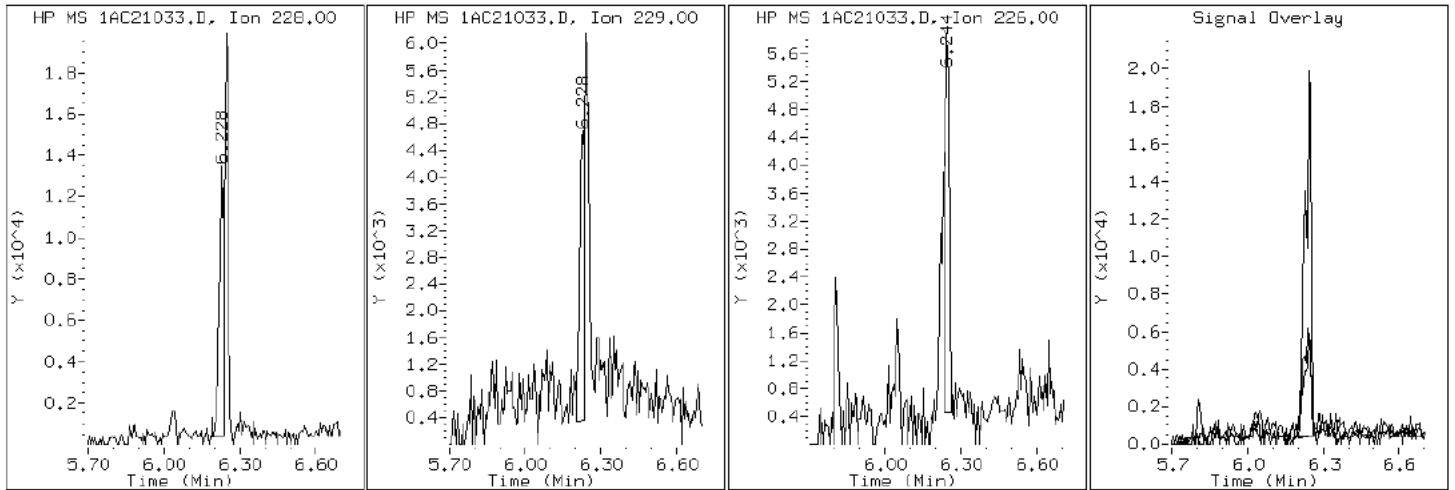
Client ID: CV0137A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-14-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC21033.D

Date: 21-MAR-2013 23:15

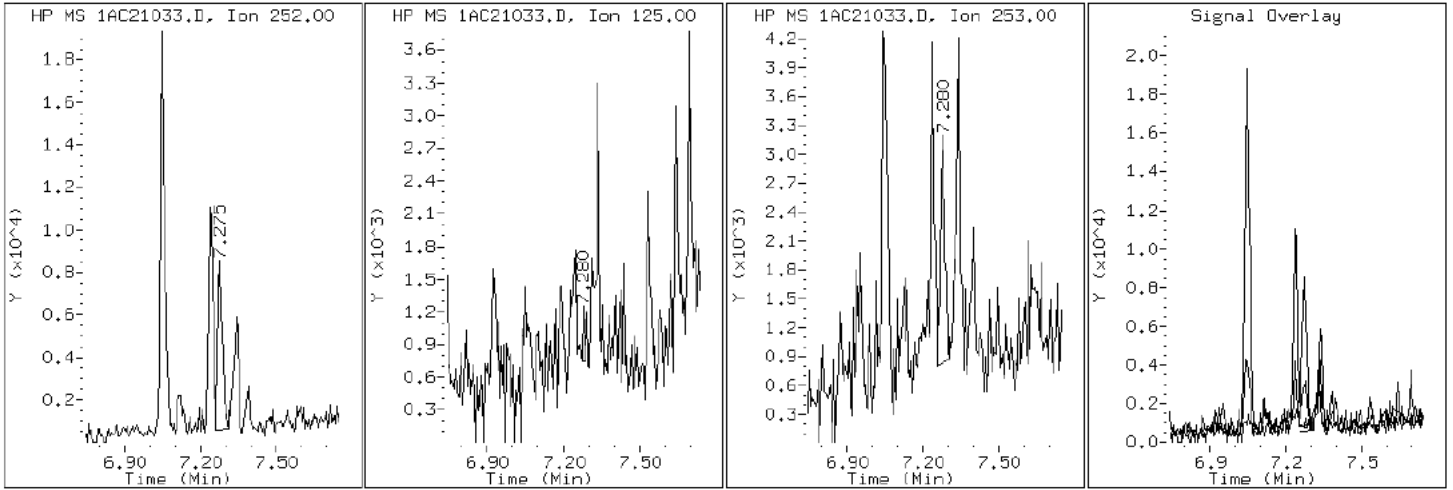
Client ID: CV0137A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-14-a

Operator: SCC

22 Benzo(a)pyrene





Data File: 1AC21033.D

Date: 21-MAR-2013 23:15

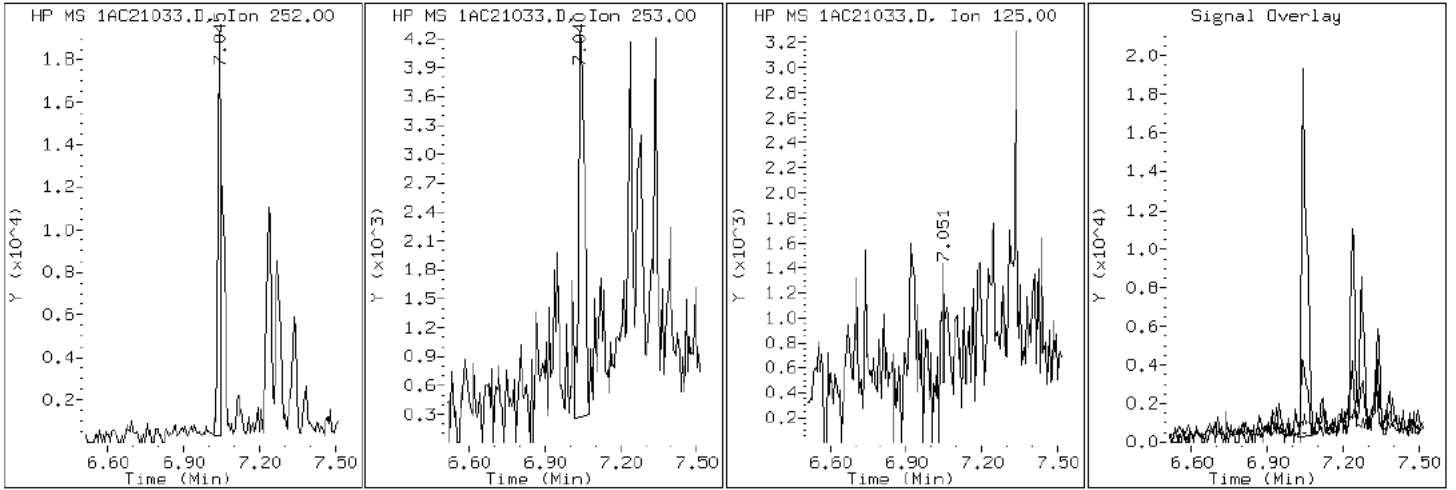
Client ID: CV0137A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-14-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC21033.D

Date: 21-MAR-2013 23:15

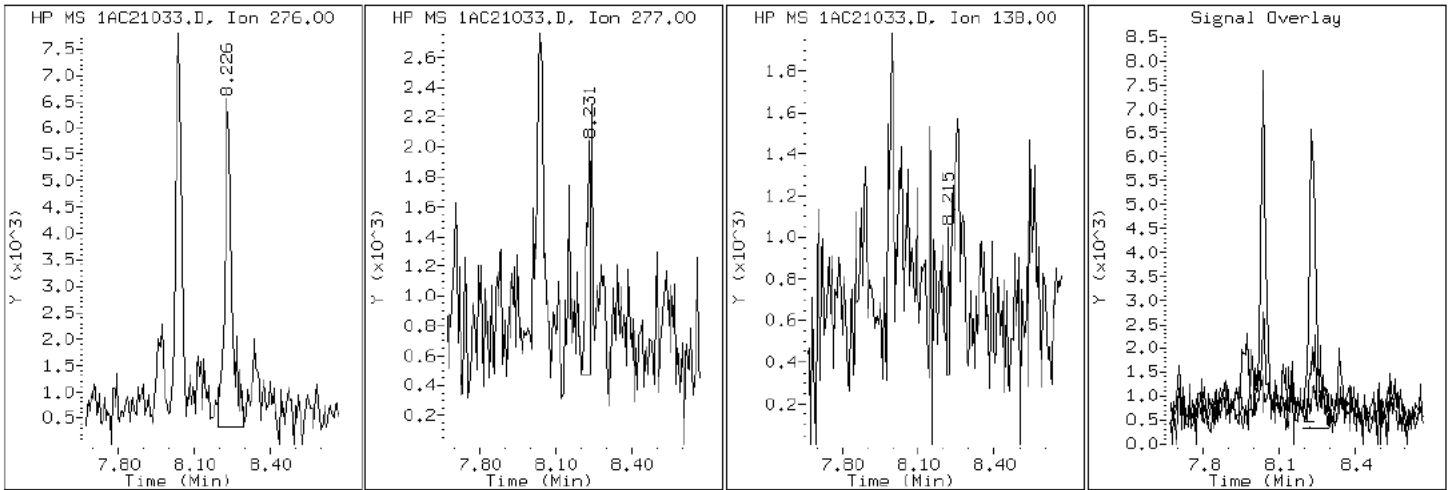
Client ID: CV0137A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-14-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC21033.D

Date: 21-MAR-2013 23:15

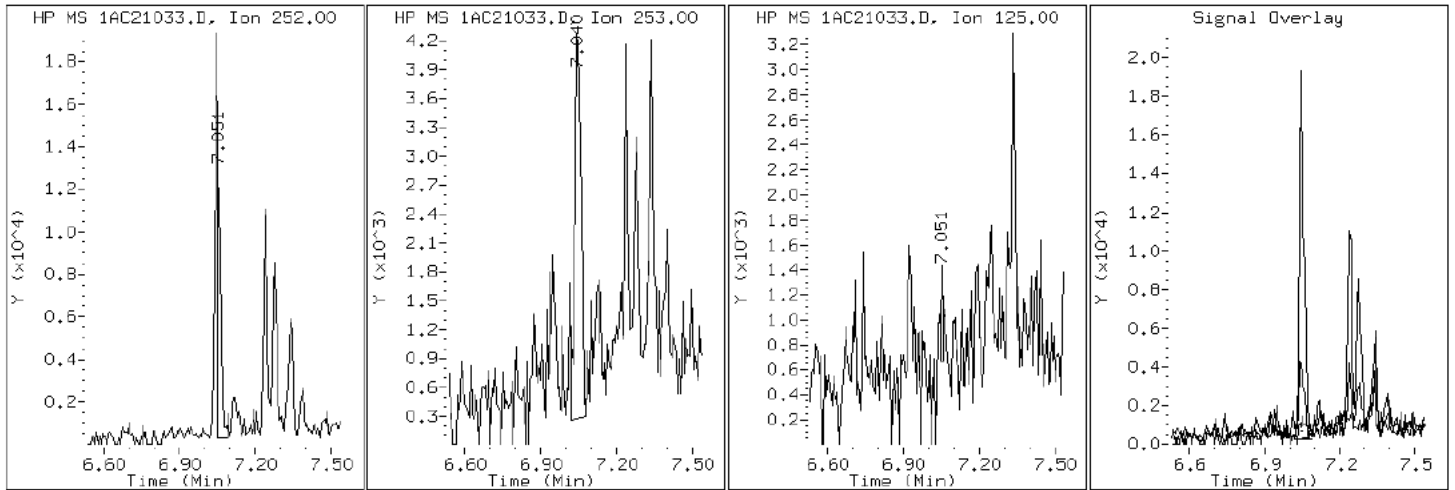
Client ID: CV0137A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-14-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC21033.D

Date: 21-MAR-2013 23:15

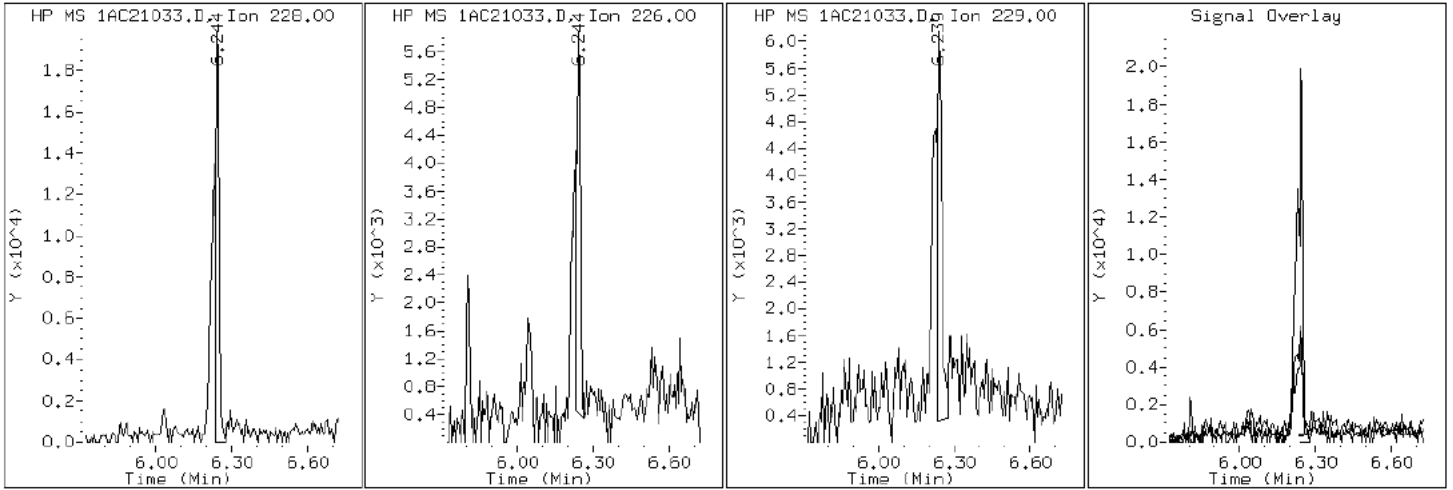
Client ID: CV0137A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-14-a

Operator: SCC

19 Chrysene



Data File: 1AC21033.D

Date: 21-MAR-2013 23:15

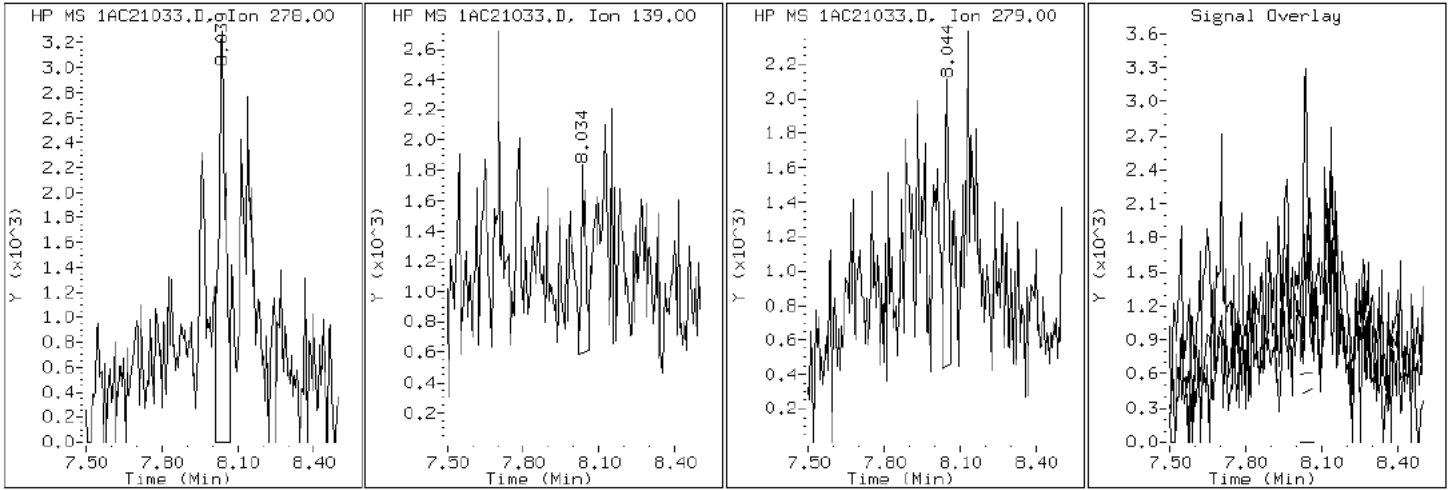
Client ID: CV0137A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-14-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC21033.D

Date: 21-MAR-2013 23:15

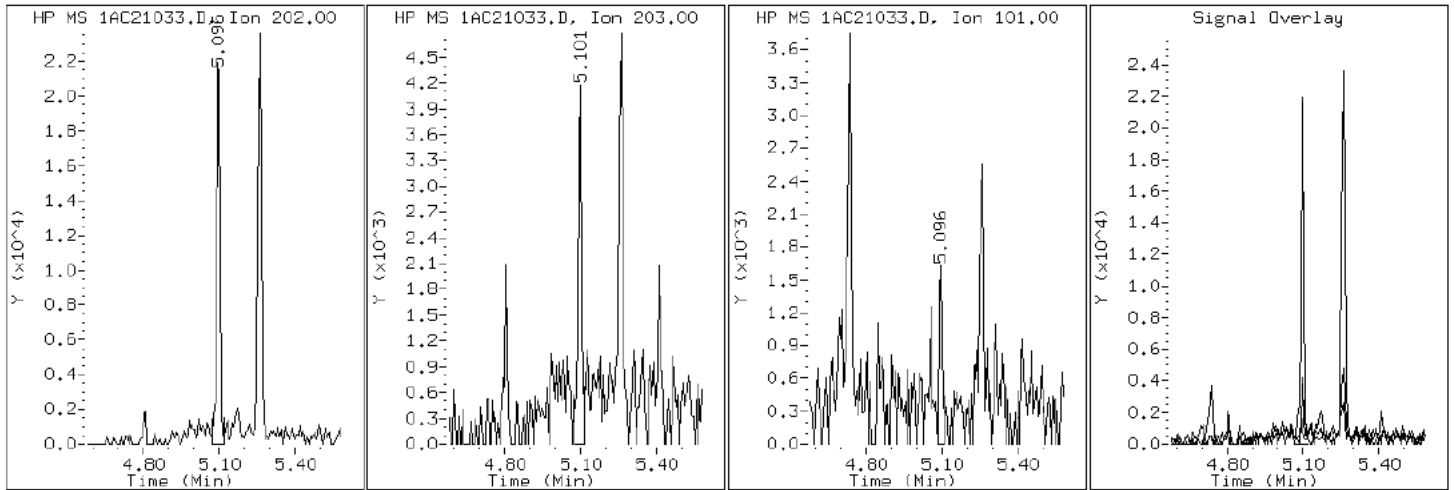
Client ID: CV0137A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-14-a

Operator: SCC

15 Fluoranthene



Data File: 1AC21033.D

Date: 21-MAR-2013 23:15

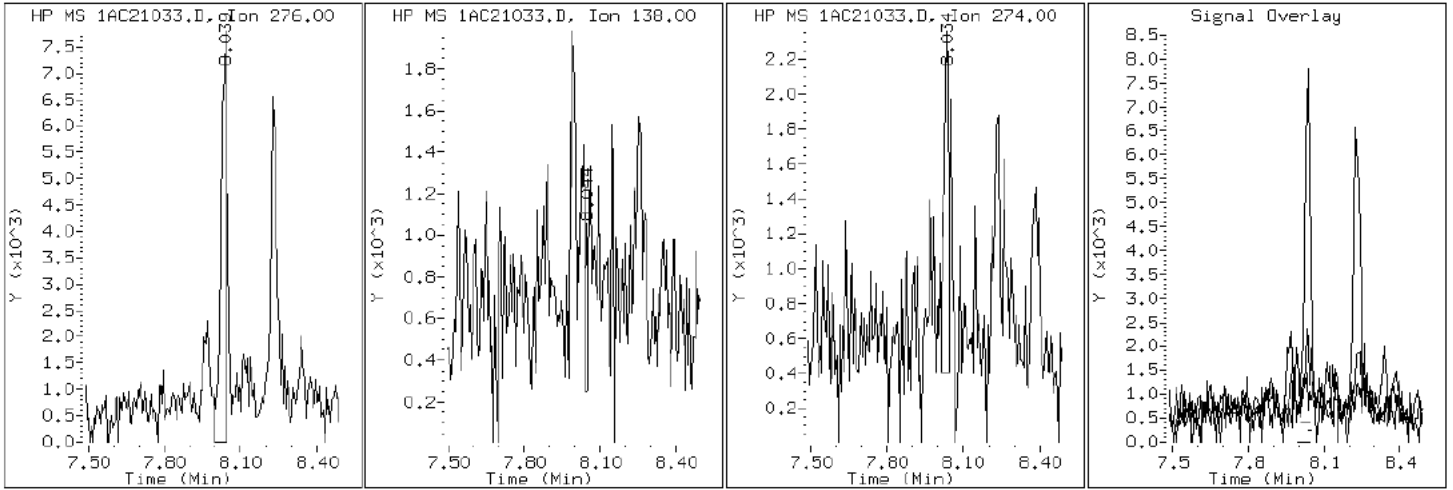
Client ID: CV0137A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-14-a

Operator: SCC

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



Data File: 1AC21033.D

Date: 21-MAR-2013 23:15

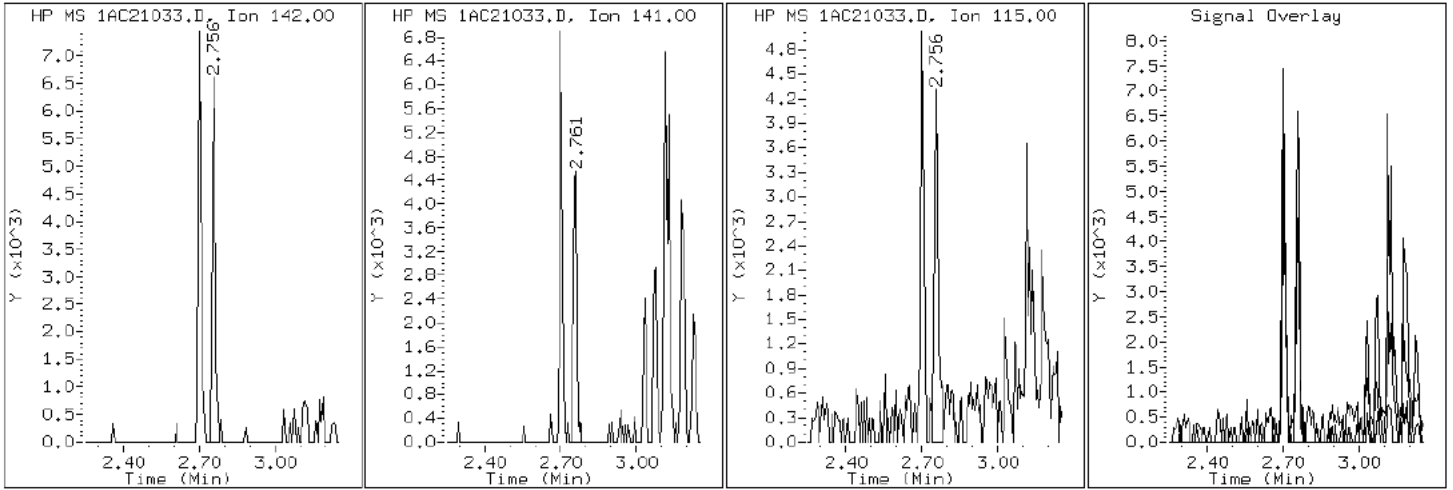
Client ID: CV0137A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-14-a

Operator: SCC

4 1-Methylnaphthalene





Data File: 1AC21033.D

Date: 21-MAR-2013 23:15

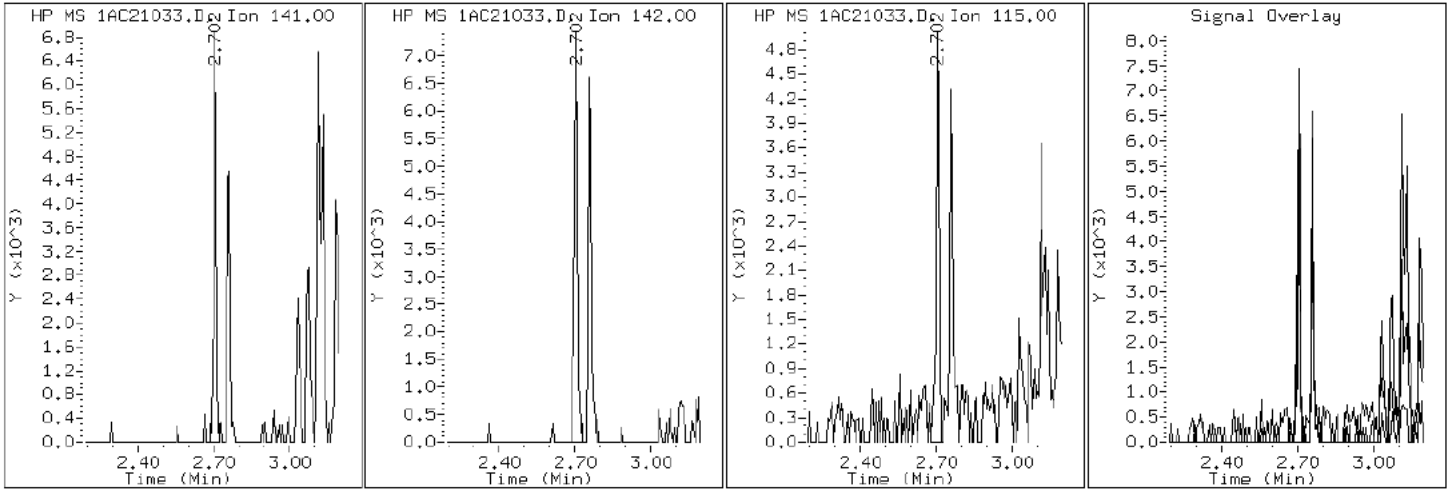
Client ID: CV0137A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-14-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC21033.D

Date: 21-MAR-2013 23:15

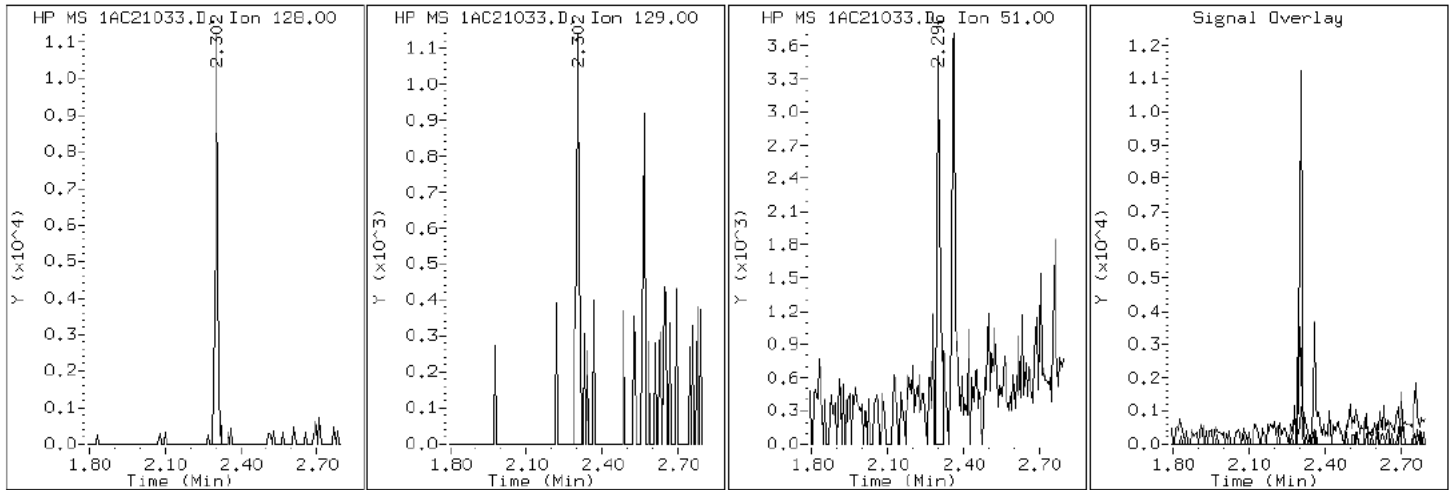
Client ID: CV0137A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-14-a

Operator: SCC

2 Naphthalene



Data File: 1AC21033.D

Date: 21-MAR-2013 23:15

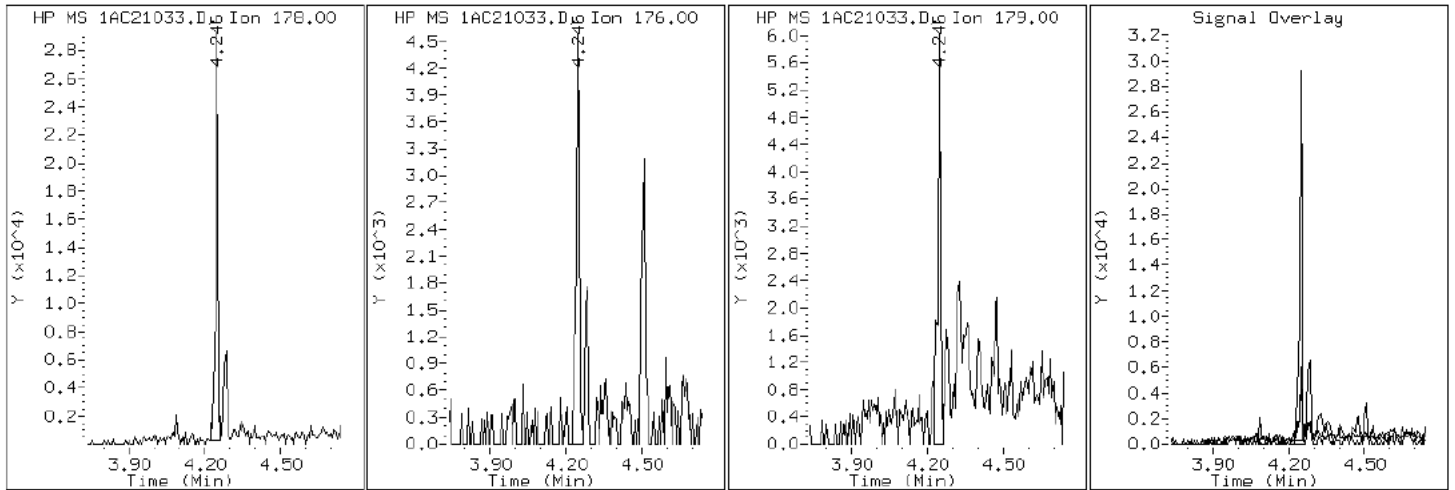
Client ID: CV0137A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-14-a

Operator: SCC

11 Phenanthrene



Data File: 1AC21033.D

Date: 21-MAR-2013 23:15

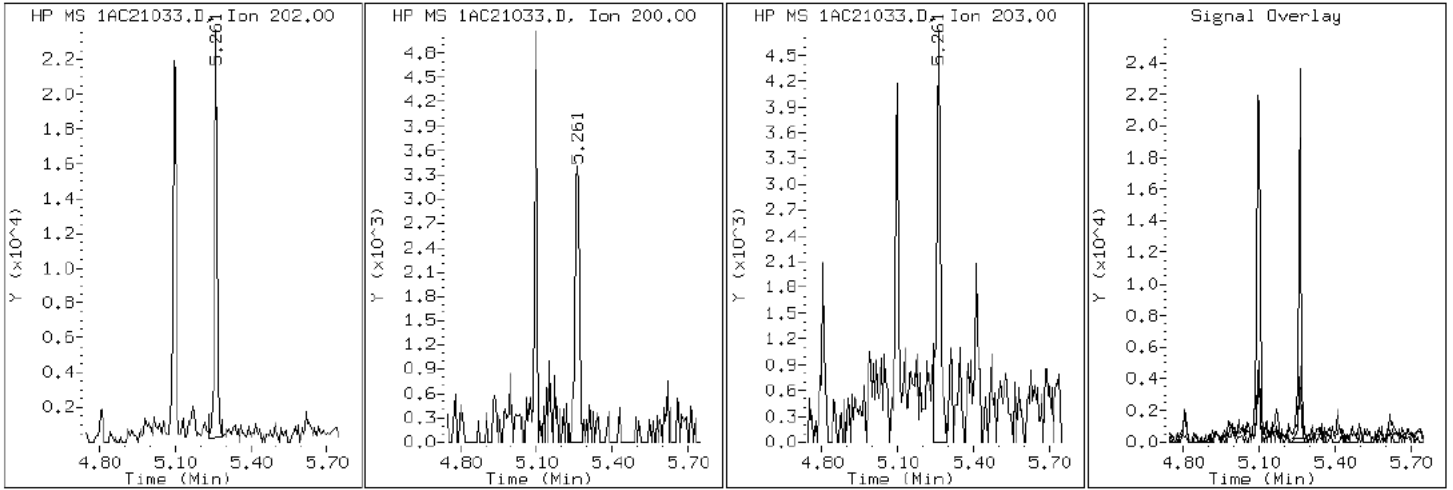
Client ID: CV0137A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-14-a

Operator: SCC

16 Pyrene

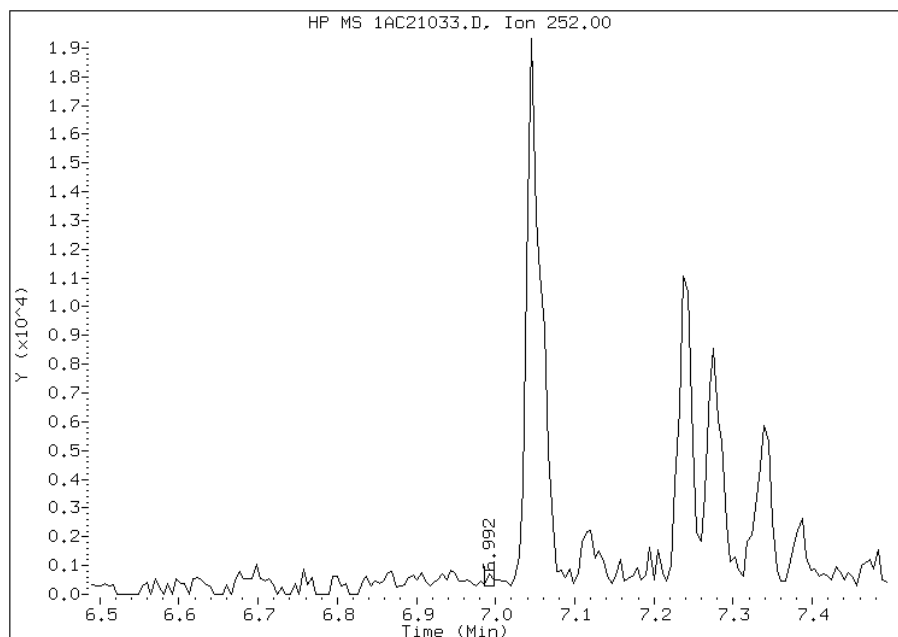


# Manual Integration Report

Data File: 1AC21033.D  
Inj. Date and Time: 21-MAR-2013 23:15  
Instrument ID: BSMA5973.i  
Client ID: CV0137A-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 03/26/2013

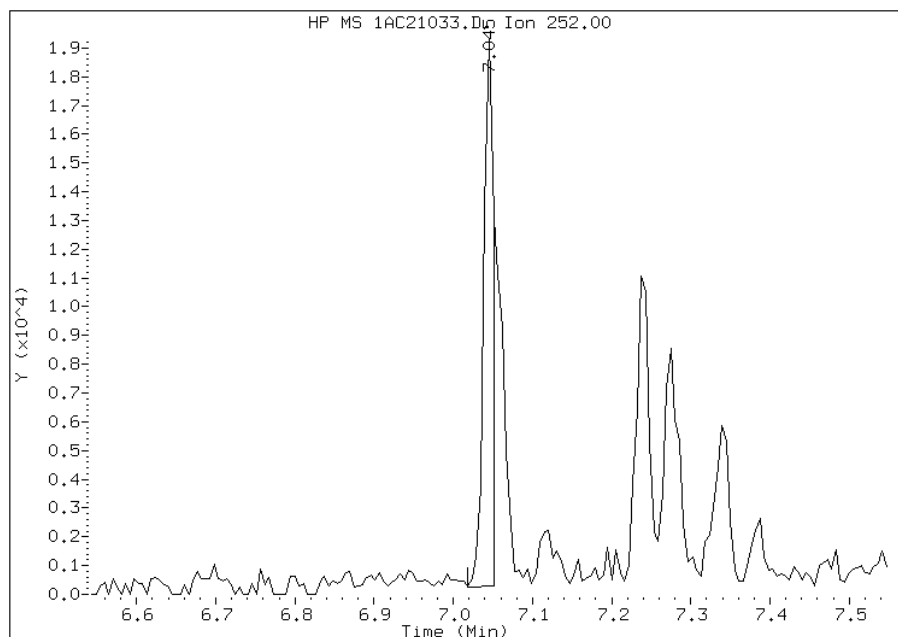
## Processing Integration Results

RT: 6.99  
Response: 208  
Amount: 1  
Conc: 104



## Manual Integration Results

RT: 7.05  
Response: 15975  
Amount: 2  
Conc: 169



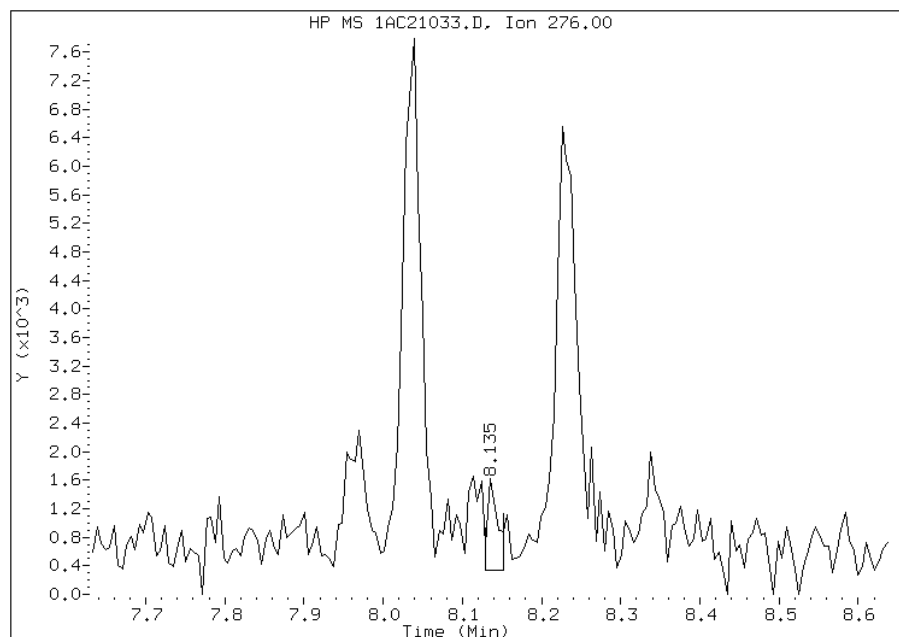
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:54  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AC21033.D  
Inj. Date and Time: 21-MAR-2013 23:15  
Instrument ID: BSMA5973.i  
Client ID: CV0137A-CS  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 03/26/2013

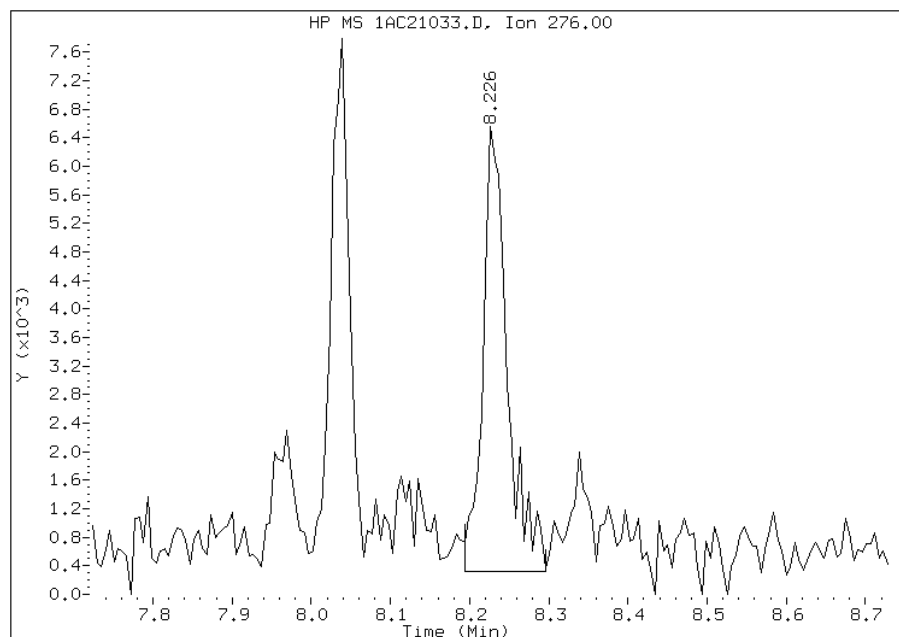
## Processing Integration Results

RT: 8.14  
Response: 1155  
Amount: 0  
Conc: 6



## Manual Integration Results

RT: 8.23  
Response: 13315  
Amount: 1  
Conc: 72



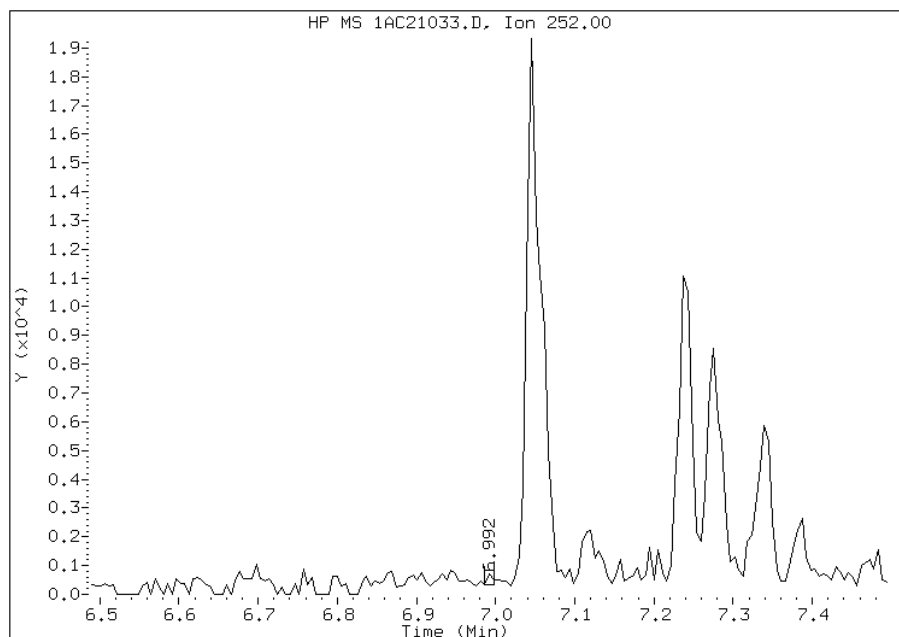
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:55  
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC21033.D  
Inj. Date and Time: 21-MAR-2013 23:15  
Instrument ID: BSMA5973.i  
Client ID: CV0137A-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 03/26/2013

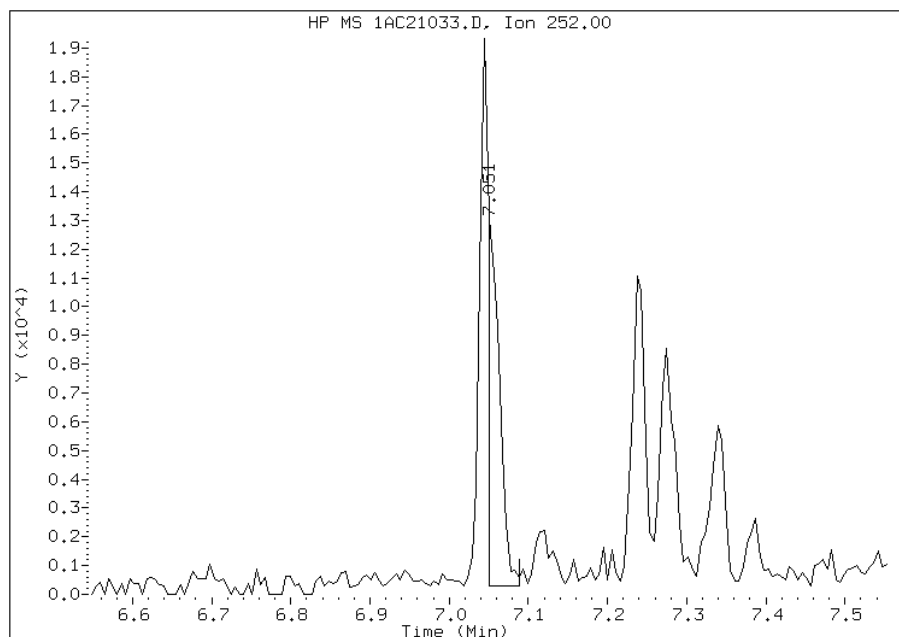
Processing Integration Results

RT: 6.99  
Response: 172  
Amount: 0  
Conc: 1



Manual Integration Results

RT: 7.05  
Response: 13112  
Amount: 1  
Conc: 56



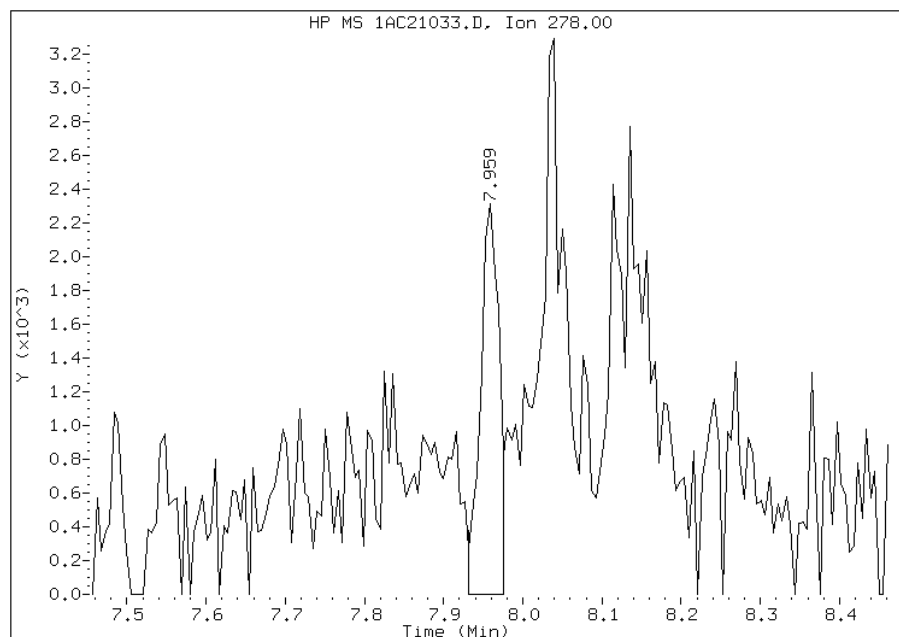
Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:55  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AC21033.D  
Inj. Date and Time: 21-MAR-2013 23:15  
Instrument ID: BSMA5973.i  
Client ID: CV0137A-CS  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 03/26/2013

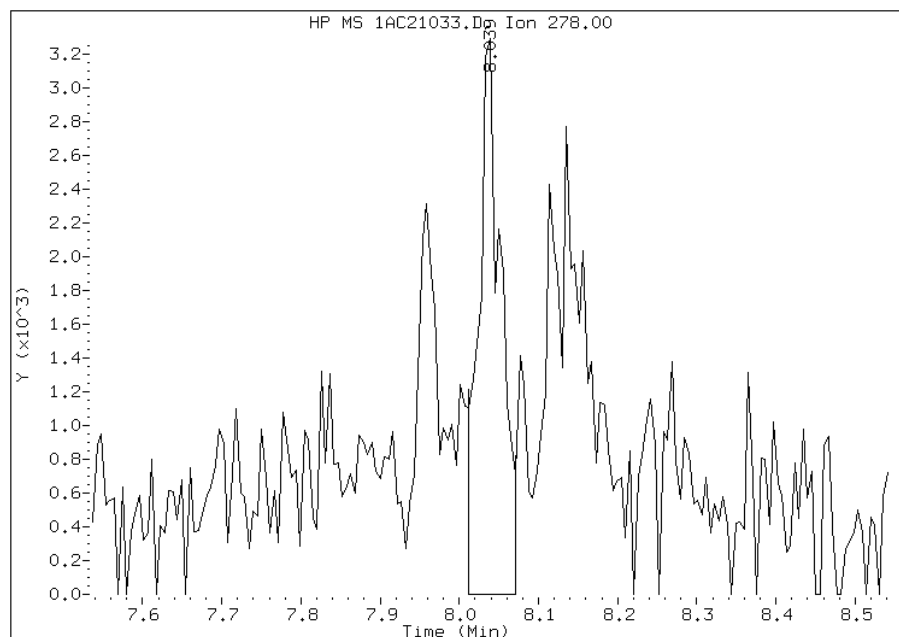
## Processing Integration Results

RT: 7.96  
Response: 3734  
Amount: 0  
Conc: 20



## Manual Integration Results

RT: 8.04  
Response: 6622  
Amount: 0  
Conc: 36



Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:55  
Manual Integration Reason: Baseline Event

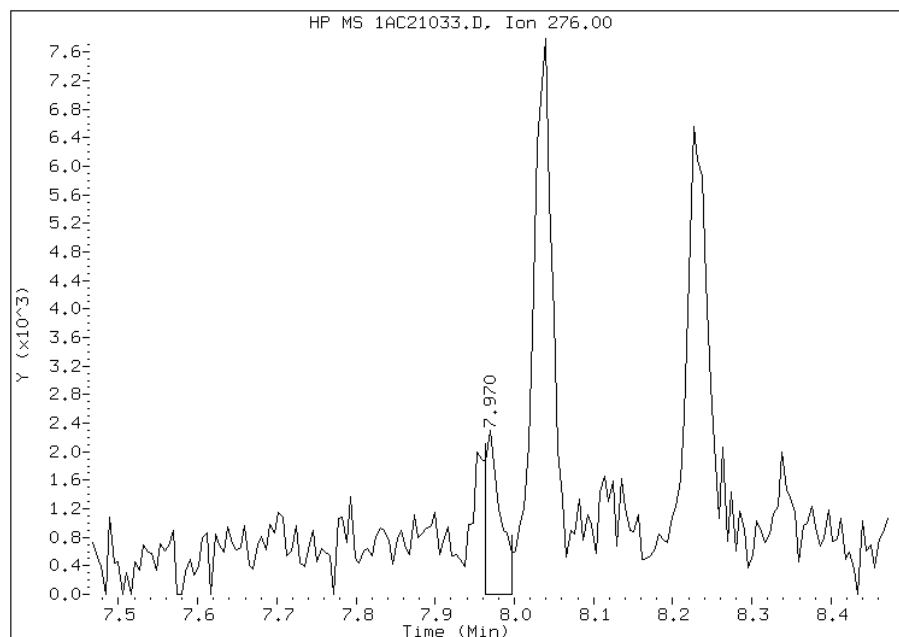


# Manual Integration Report

Data File: 1AC21033.D  
Inj. Date and Time: 21-MAR-2013 23:15  
Instrument ID: BSMA5973.i  
Client ID: CV0137A-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/26/2013

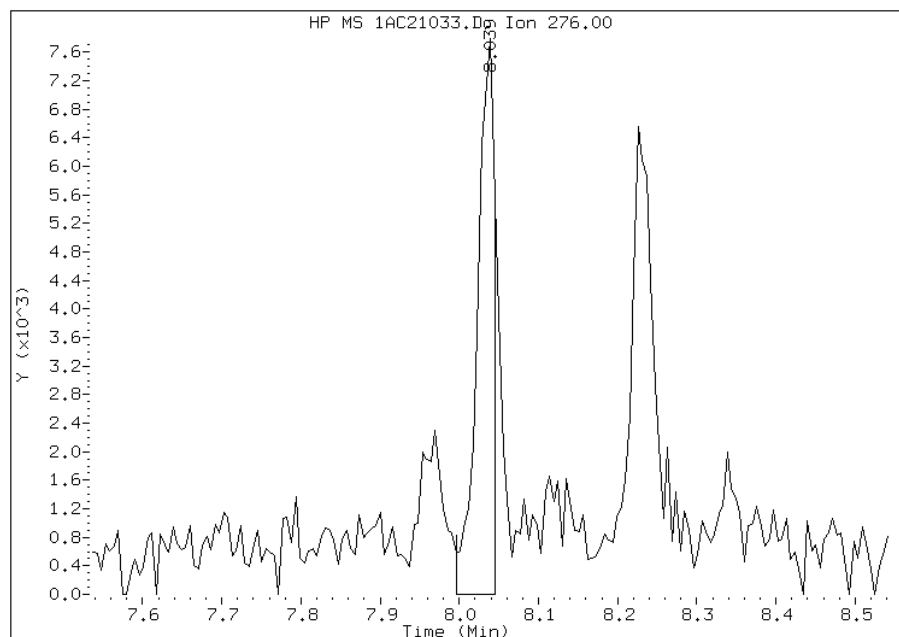
## Processing Integration Results

RT: 7.97  
Response: 3004  
Amount: 0  
Conc: 16



## Manual Integration Results

RT: 8.04  
Response: 11456  
Amount: 1  
Conc: 62



Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:56  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: FM0004A-CS Lab Sample ID: 680-88420-15  
 Matrix: Solid Lab File ID: 1AC26010.D  
 Analysis Method: 8270C LL Date Collected: 03/14/2013 12:50  
 Extract. Method: 3546 Date Extracted: 03/21/2013 11:14  
 Sample wt/vol: 15.10(g) Date Analyzed: 03/26/2013 13:23  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 20.7 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135850 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	55	J	130	25
208-96-8	Acenaphthylene	69		50	6.3
120-12-7	Anthracene	100		11	5.3
56-55-3	Benzo[a]anthracene	530		10	4.9
50-32-8	Benzo[a]pyrene	380		13	6.5
205-99-2	Benzo[b]fluoranthene	720		15	7.6
191-24-2	Benzo[g,h,i]perylene	310		25	5.5
207-08-9	Benzo[k]fluoranthene	280		10	4.5
218-01-9	Chrysene	570		11	5.6
53-70-3	Dibenz(a,h)anthracene	110		25	5.1
206-44-0	Fluoranthene	1100		25	5.0
86-73-7	Fluorene	40		25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	300		25	8.9
90-12-0	1-Methylnaphthalene	35	J	50	5.5
91-57-6	2-Methylnaphthalene	110		50	8.9
91-20-3	Naphthalene	52		50	5.5
85-01-8	Phenanthrene	400		10	4.9
129-00-0	Pyrene	940		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	77		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26010.D  
 Lab Smp Id: 680-88420-A-15-A Client Smp ID: FM0004A-CS  
 Inj Date : 26-MAR-2013 13:23  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-88420-a-15-a  
 Misc Info : 680-88420-A-15-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\a-bFASTPAHi-m.m  
 Meth Date : 26-Mar-2013 11:39 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D  
 Als bottle: 10  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.100	Weight Extracted
M	20.714	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.273	2.272	(1.000)	382227	40.0000		
* 6 Acenaphthene-d10	164		3.288	3.287	(1.000)	304286	40.0000		
* 10 Phenanthrene-d10	188		4.207	4.205	(1.000)	462283	40.0000		
\$ 14 o-Terphenyl	230		4.479	4.478	(1.065)	46852	7.70944	643.9440	
* 18 Chrysene-d12	240		6.199	6.193	(1.000)	353027	40.0000		
* 23 Perylene-d12	264		7.289	7.272	(1.000)	376092	40.0000		
2 Naphthalene	128		2.283	2.282	(1.005)	5450	0.61716	51.5495	
3 2-Methylnaphthalene	141		2.684	2.683	(1.181)	2139	1.27573	106.5578	
4 1-Methylnaphthalene	142		2.737	2.736	(1.204)	2140	0.42144	35.2013	
5 Acenaphthylene	152		3.202	3.201	(0.974)	7172	0.82907	69.2490	
7 Acenaphthene	154		3.304	3.308	(1.005)	1502	0.65685	54.8644	
9 Fluorene	166		3.614	3.612	(1.099)	2045	0.48049	40.1339(Q)	
11 Phenanthrene	178		4.217	4.221	(1.003)	56132	4.79088	400.1661	
12 Anthracene	178		4.255	4.253	(1.011)	13863	1.22027	101.9250	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.415	4.408	(1.050)	7790	0.78234	65.3461
15 Fluoranthene	202	5.067	5.065	(1.204)	146200	12.6235	1054.3952
16 Pyrene	202	5.232	5.226	(0.844)	114218	11.2840	942.5171
17 Benzo(a)anthracene	228	6.188	6.177	(0.998)	63512	6.37238	532.2638
19 Chrysene	228	6.210	6.209	(1.002)	62477	6.83292	570.7310
20 Benzo(b)fluoranthene	252	7.006	6.994	(0.961)	77294	8.66119	723.4407(M)
21 Benzo(k)fluoranthene	252	7.016	7.015	(0.963)	33865	3.33818	278.8269(QM)
22 Benzo(a)pyrene	252	7.230	7.224	(0.992)	40060	4.53881	379.1114
24 Indeno(1,2,3-cd)pyrene	276	7.983	7.972	(1.095)	28174	3.53774	295.4960(M)
25 Dibenzo(a,h)anthracene	278	7.989	7.982	(1.096)	10684	1.35362	113.0634
26 Benzo(g,h,i)perylene	276	8.165	8.148	(1.120)	29647	3.69829	308.9060

QC Flag Legend

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

Data File: 1AC26010.D

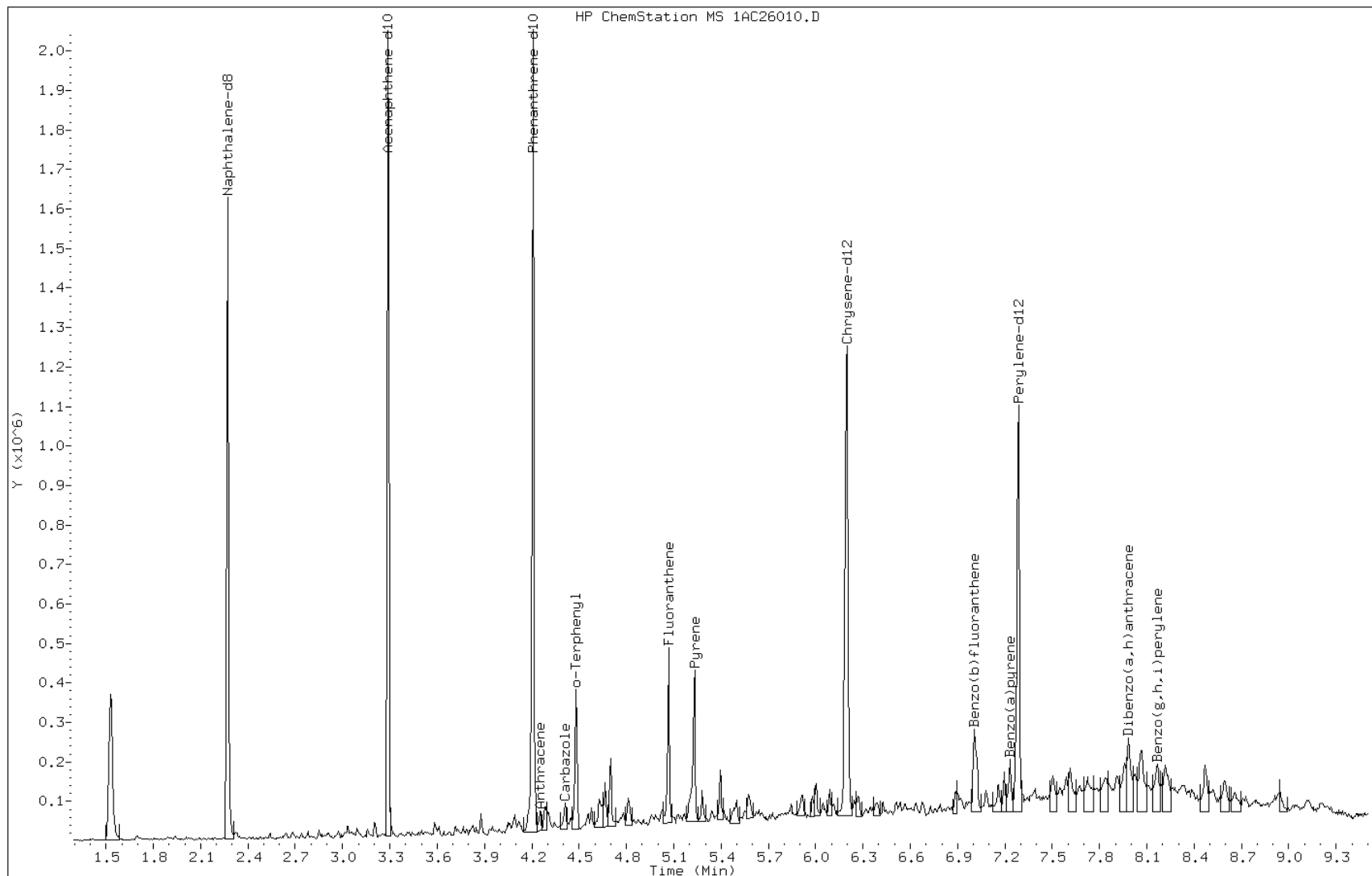
Date: 26-MAR-2013 13:23

Client ID: FM0004A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-15-a

Operator: SCC



Data File: 1AC26010.D

Date: 26-MAR-2013 13:23

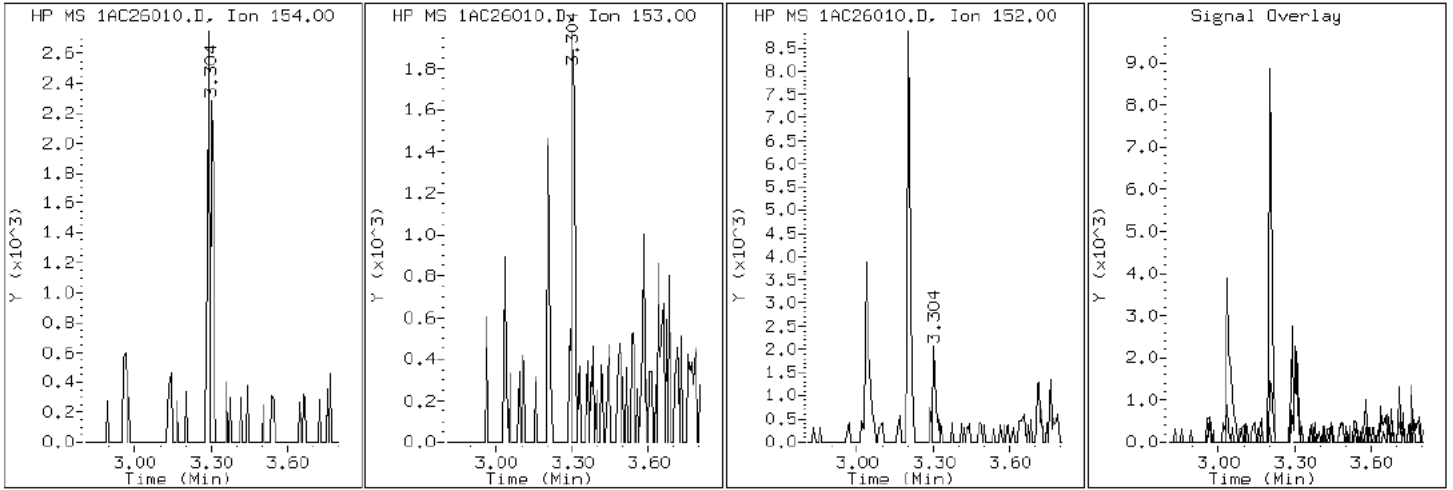
Client ID: FM0004A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-15-a

Operator: SCC

7 Acenaphthene



Data File: 1AC26010.D

Date: 26-MAR-2013 13:23

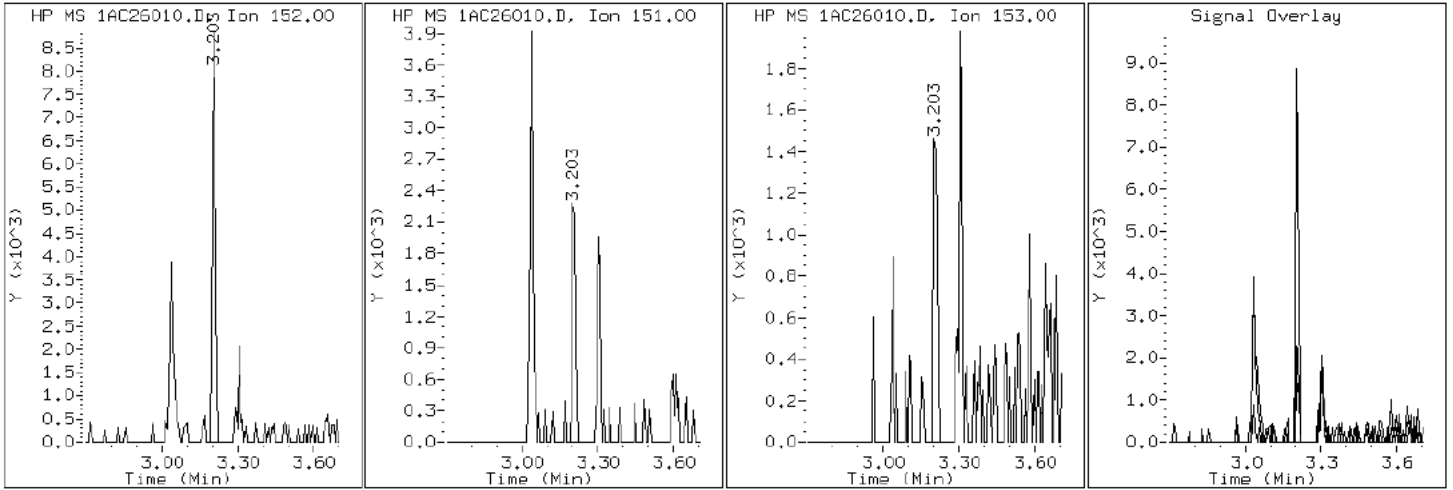
Client ID: FM0004A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-15-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC26010.D

Date: 26-MAR-2013 13:23

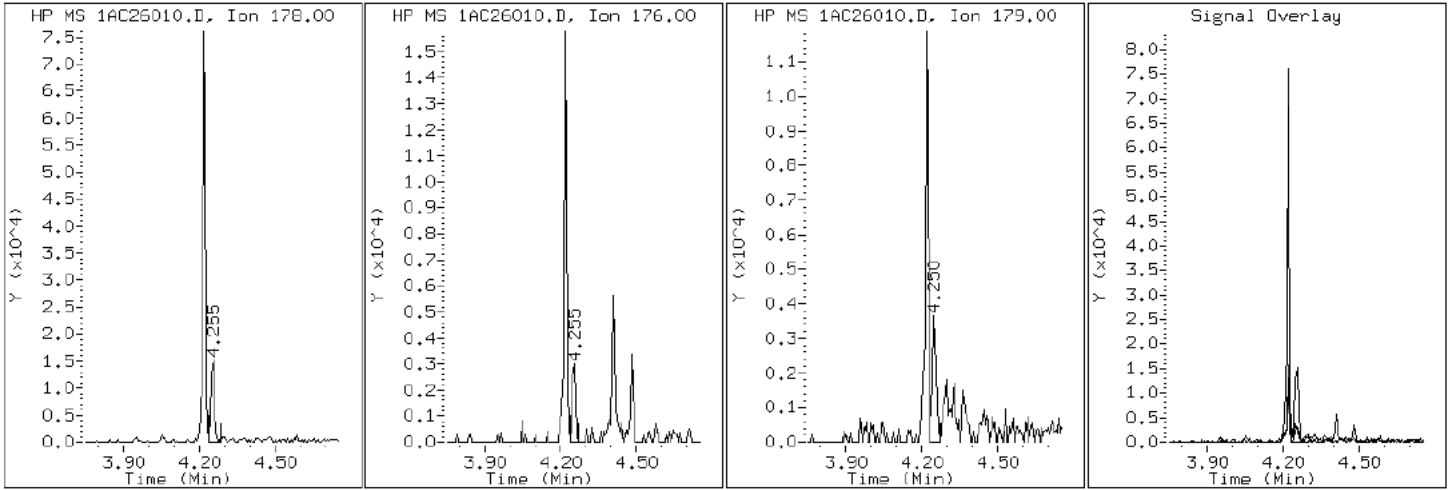
Client ID: FM0004A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-15-a

Operator: SCC

12 Anthracene





Data File: 1AC26010.D

Date: 26-MAR-2013 13:23

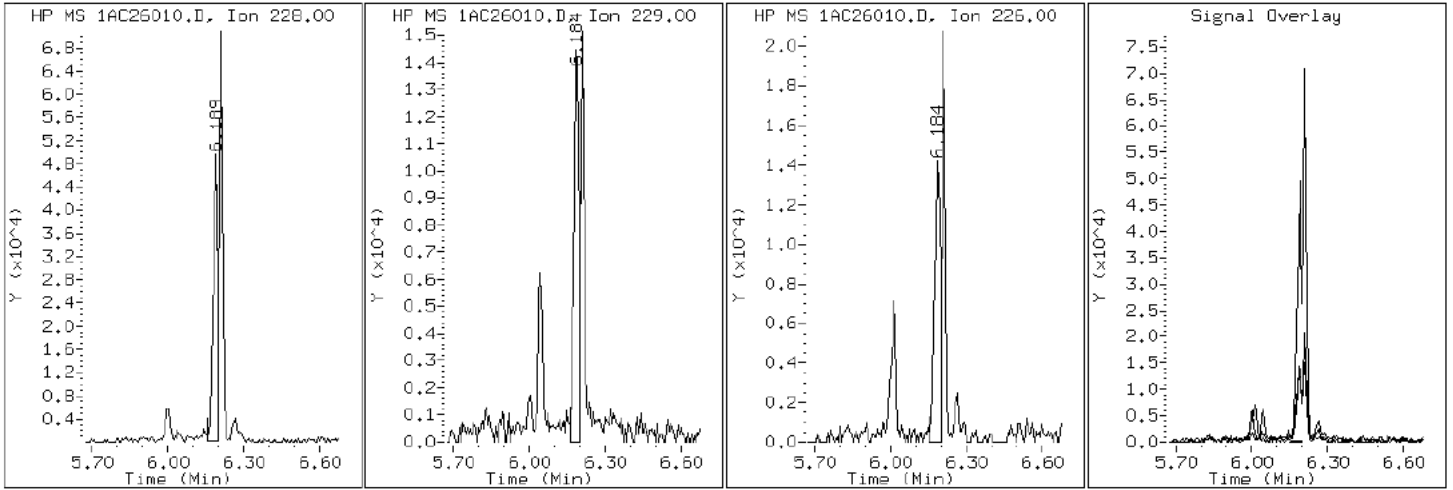
Client ID: FM0004A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-15-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC26010.D

Date: 26-MAR-2013 13:23

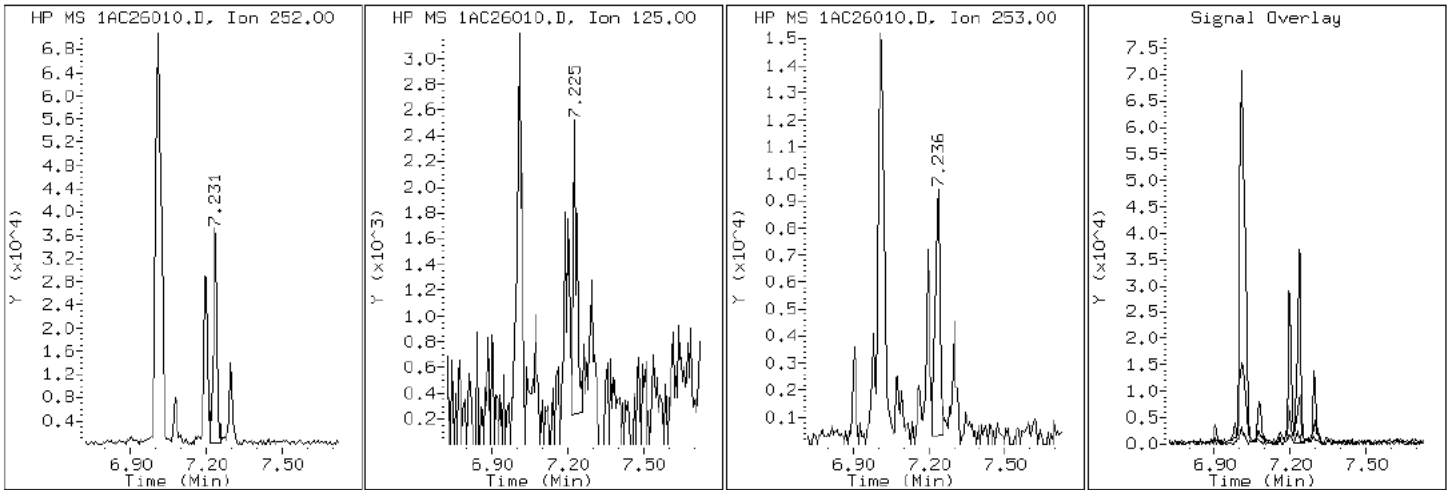
Client ID: FM0004A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-15-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC26010.D

Date: 26-MAR-2013 13:23

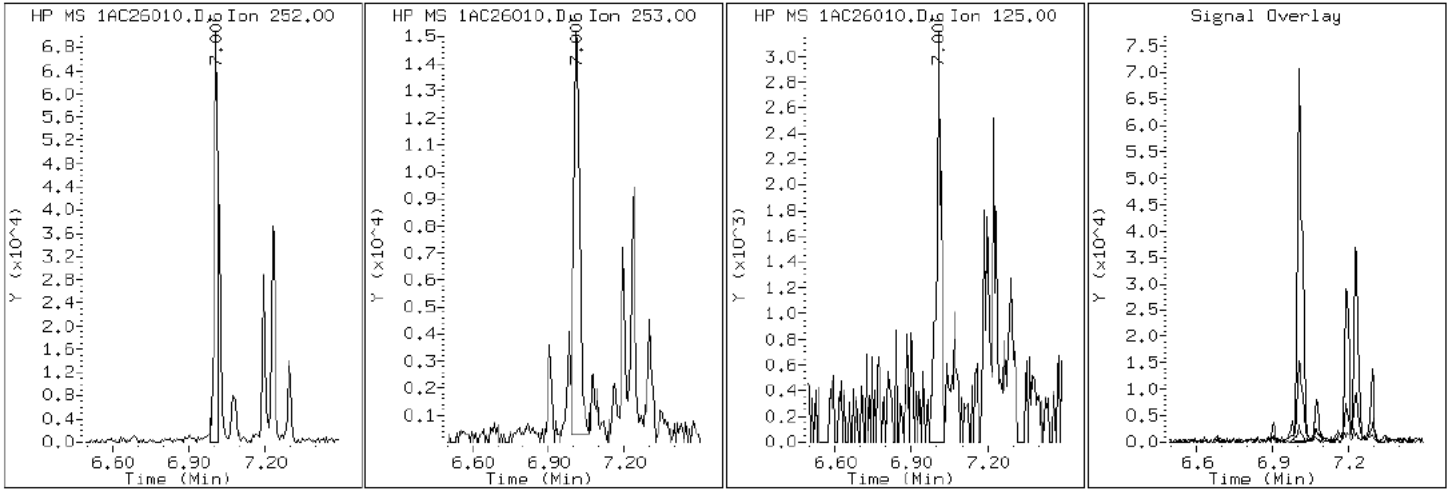
Client ID: FM0004A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-15-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC26010.D

Date: 26-MAR-2013 13:23

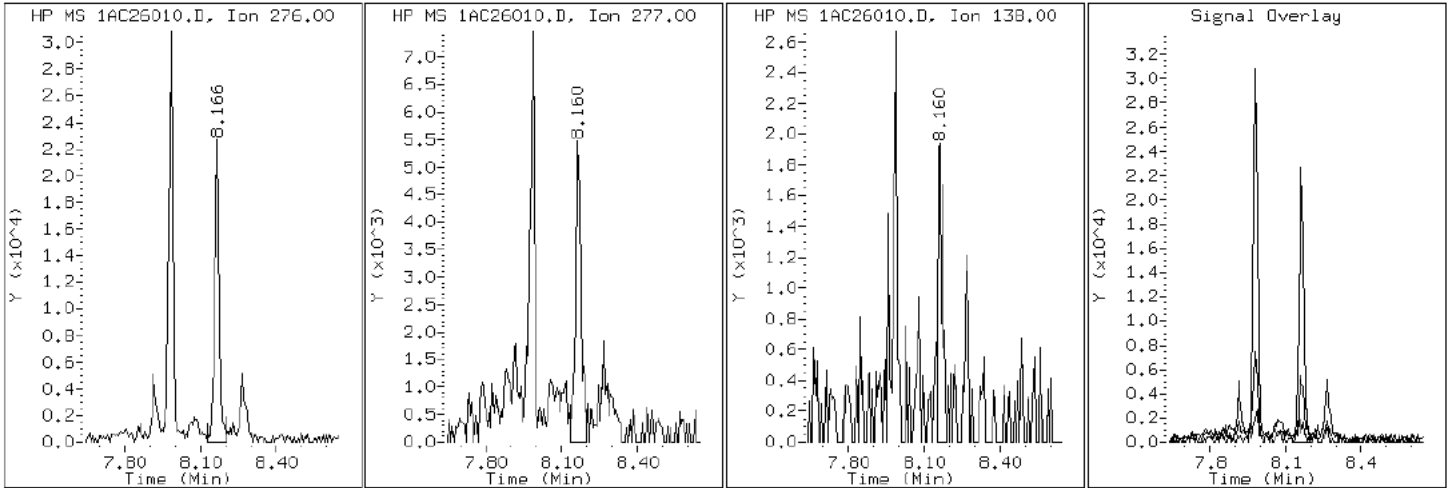
Client ID: FM0004A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-15-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC26010.D

Date: 26-MAR-2013 13:23

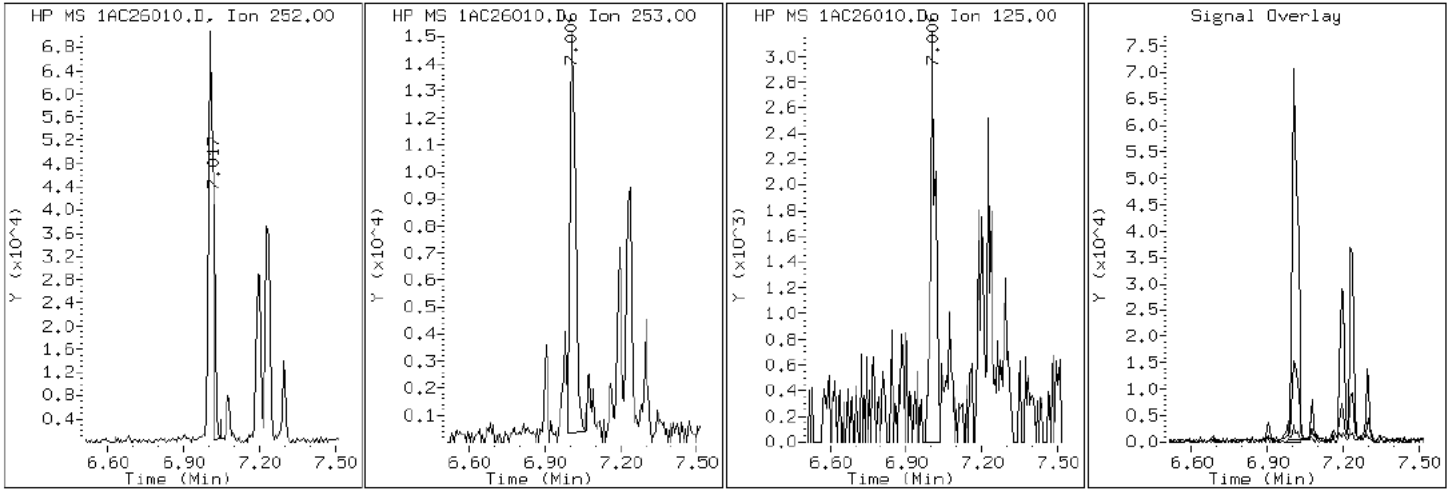
Client ID: FM0004A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-15-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC26010.D

Date: 26-MAR-2013 13:23

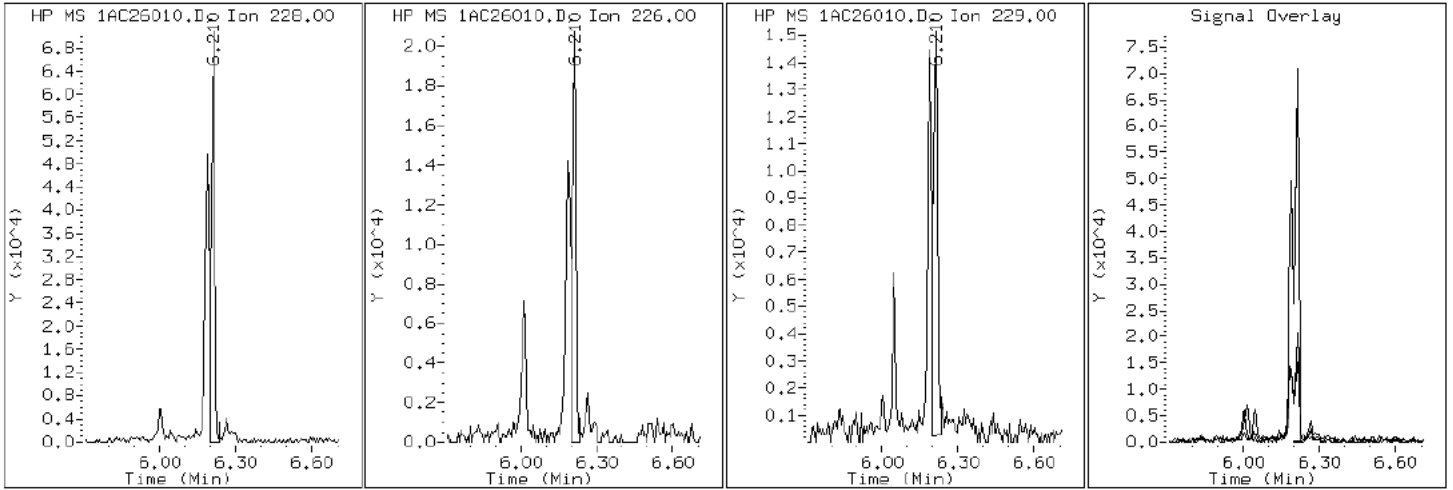
Client ID: FM0004A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-15-a

Operator: SCC

19 Chrysene



Data File: 1AC26010.D

Date: 26-MAR-2013 13:23

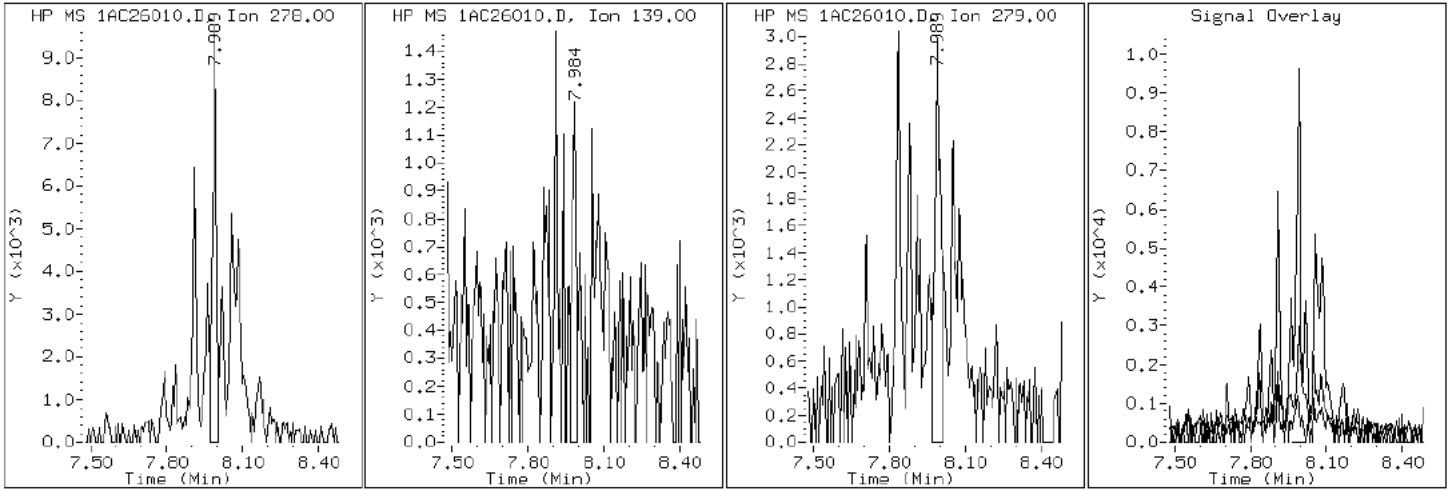
Client ID: FM0004A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-15-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC26010.D

Date: 26-MAR-2013 13:23

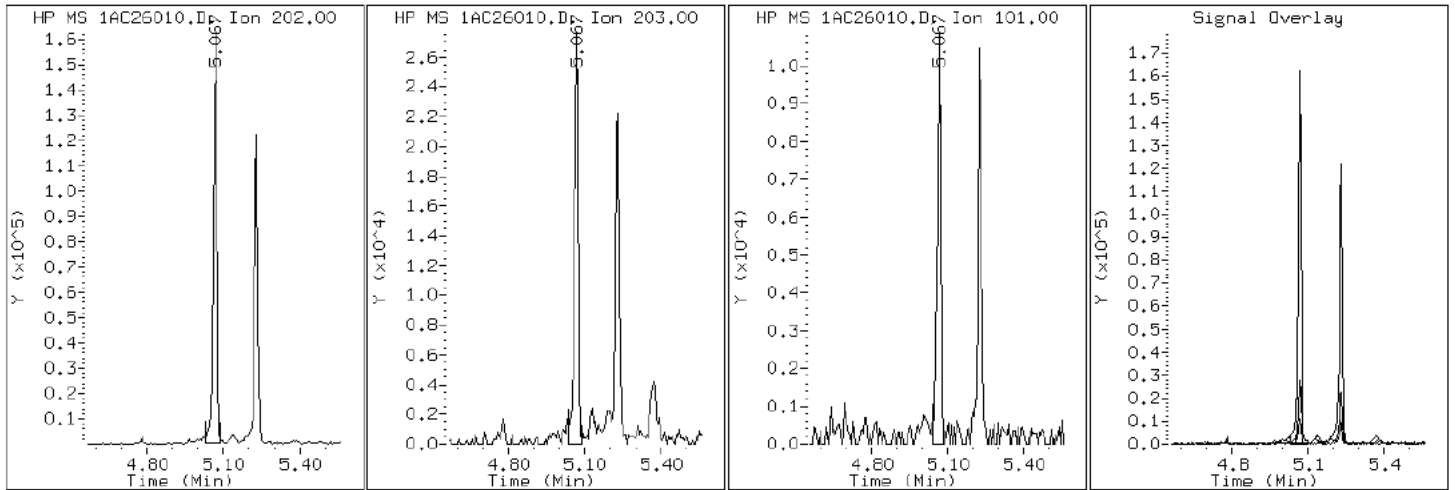
Client ID: FM0004A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-15-a

Operator: SCC

15 Fluoranthene





Data File: 1AC26010.D

Date: 26-MAR-2013 13:23

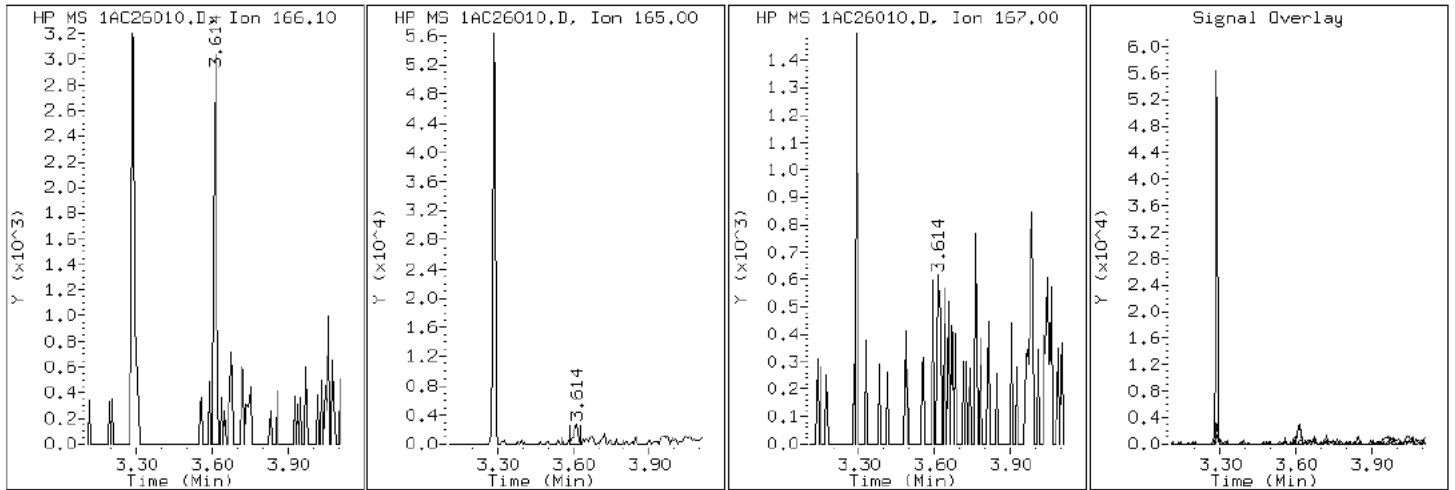
Client ID: FM0004A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-15-a

Operator: SCC

9 Fluorene



Data File: 1AC26010.D

Date: 26-MAR-2013 13:23

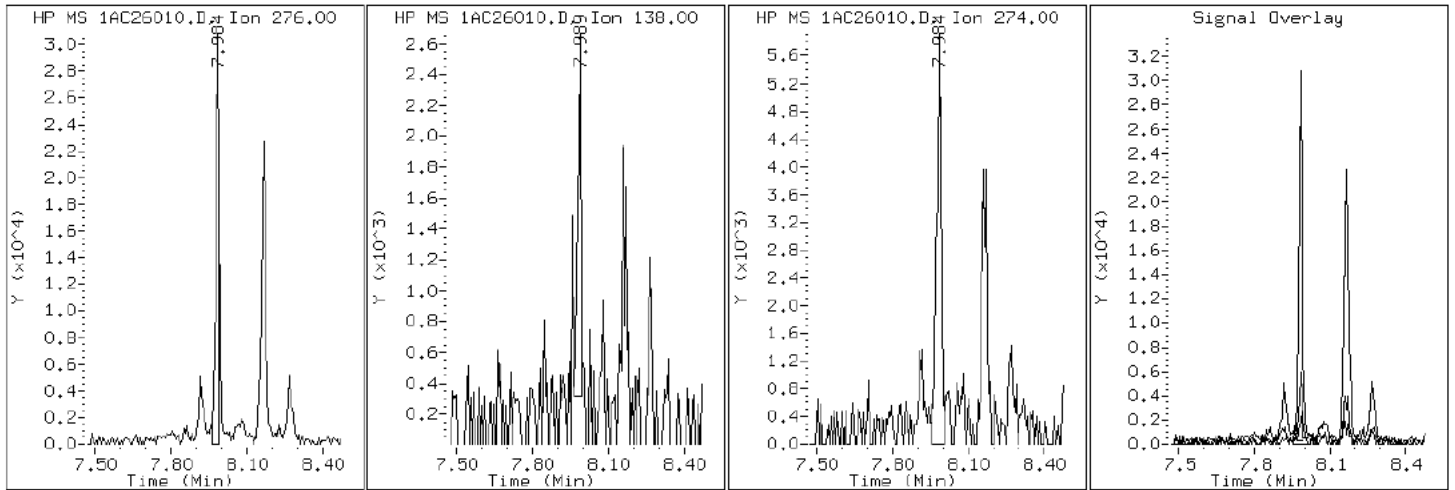
Client ID: FM0004A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-15-a

Operator: SCC

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



Data File: 1AC26010.D

Date: 26-MAR-2013 13:23

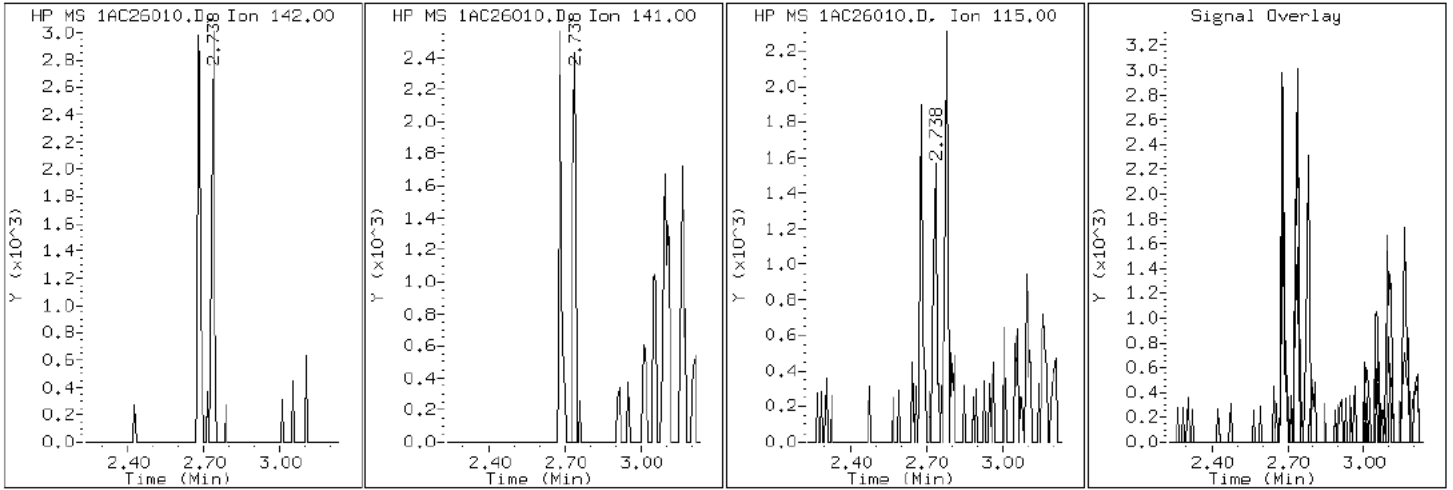
Client ID: FM0004A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-15-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC26010.D

Date: 26-MAR-2013 13:23

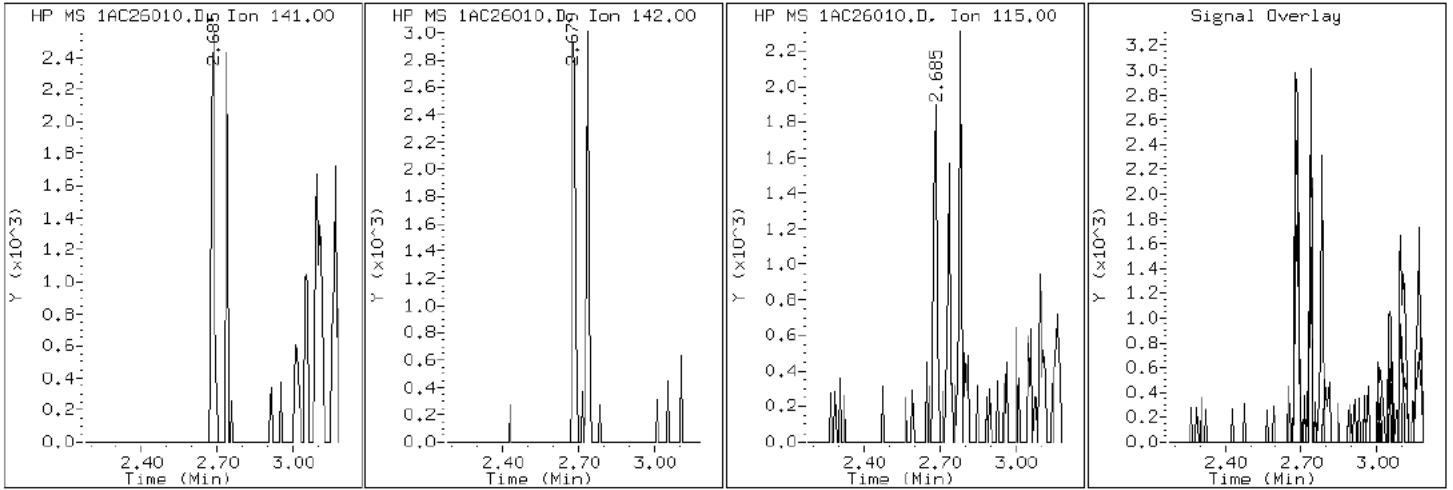
Client ID: FM0004A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-15-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC26010.D

Date: 26-MAR-2013 13:23

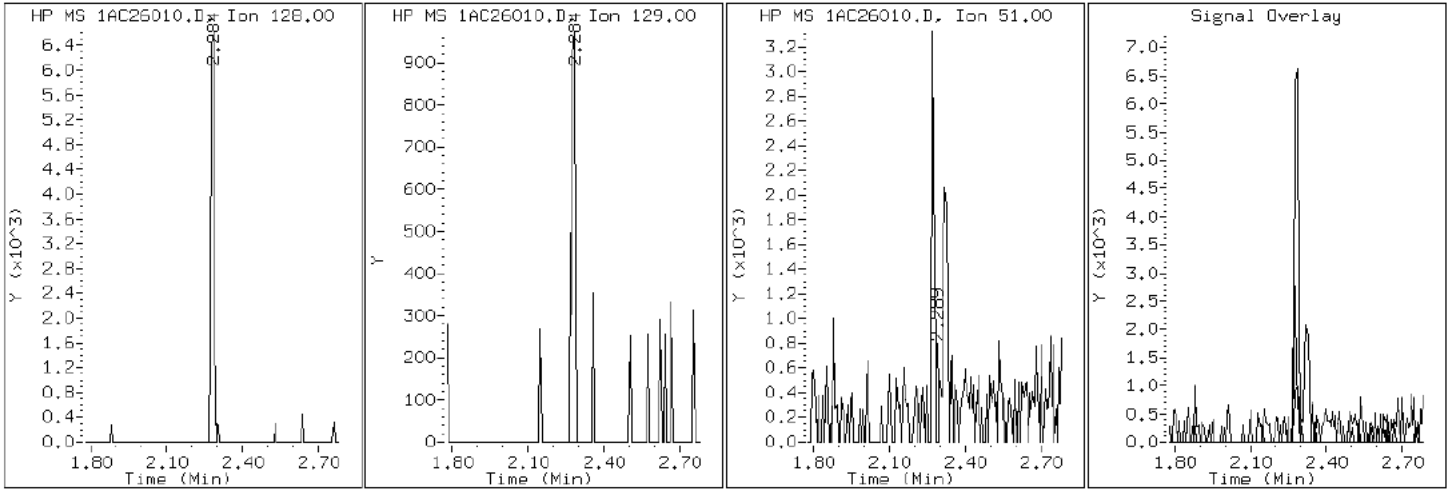
Client ID: FM0004A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-15-a

Operator: SCC

2 Naphthalene



Data File: 1AC26010.D

Date: 26-MAR-2013 13:23

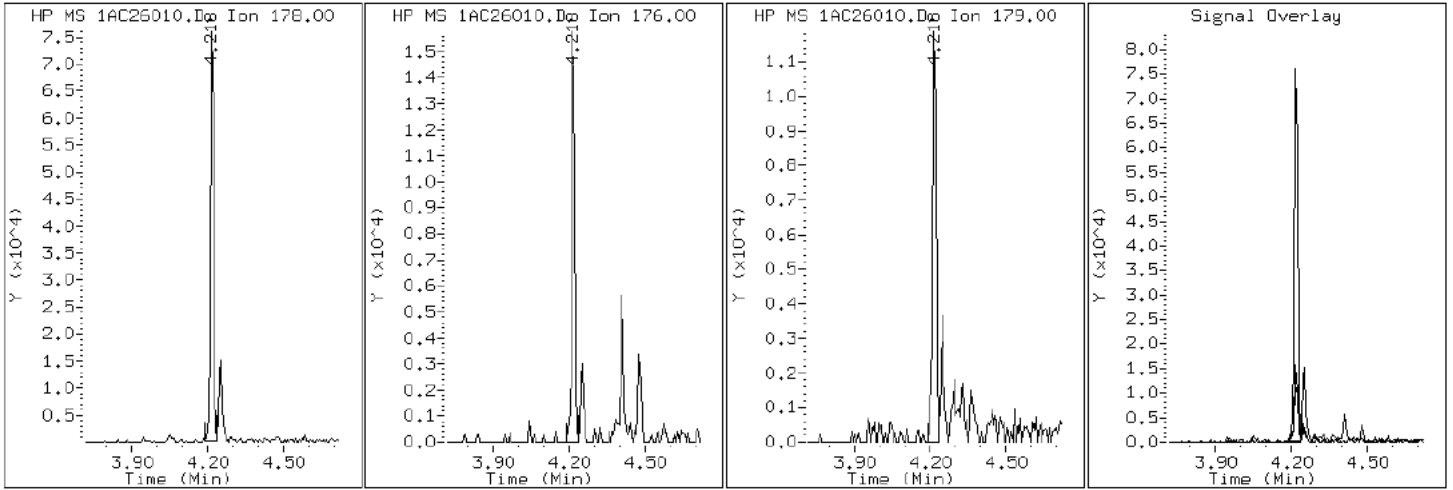
Client ID: FM0004A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-15-a

Operator: SCC

11 Phenanthrene



Data File: 1AC26010.D

Date: 26-MAR-2013 13:23

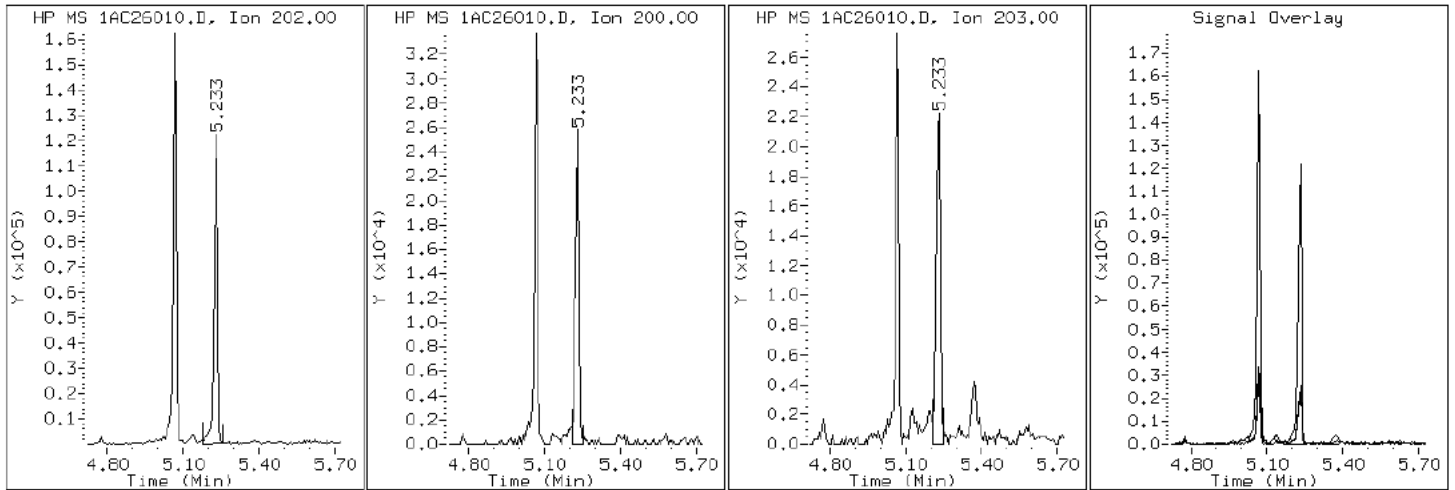
Client ID: FM0004A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-15-a

Operator: SCC

16 Pyrene

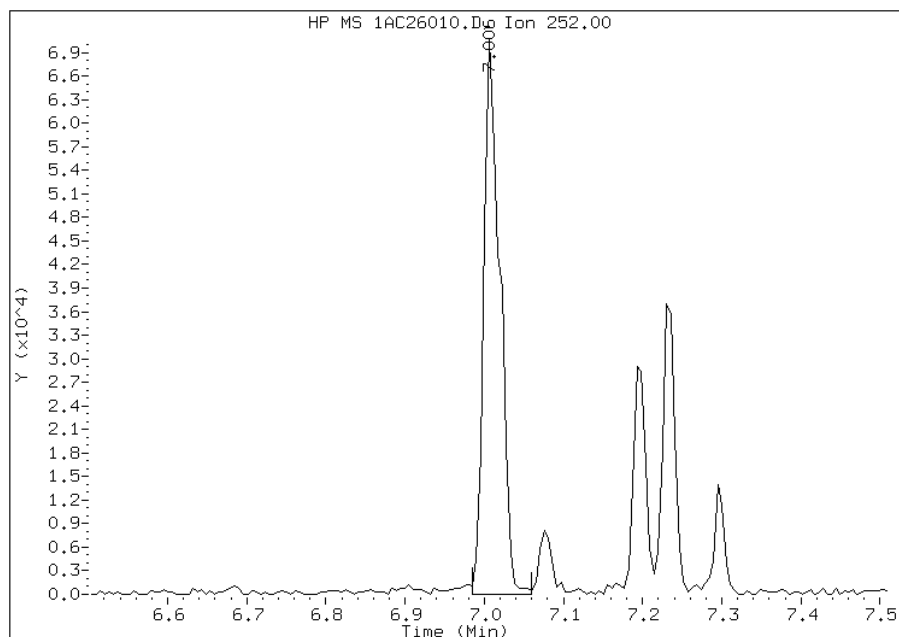


# Manual Integration Report

Data File: 1AC26010.D  
Inj. Date and Time: 26-MAR-2013 13:23  
Instrument ID: BSMA5973.i  
Client ID: FM0004A-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 03/28/2013

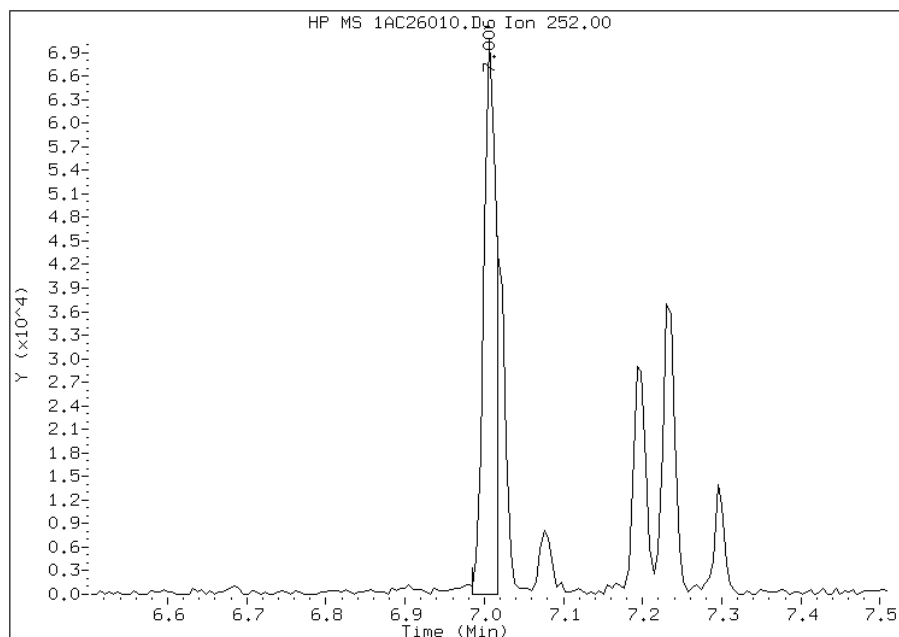
## Processing Integration Results

RT: 7.01  
Response: 98893  
Amount: 11  
Conc: 898



## Manual Integration Results

RT: 7.01  
Response: 77294  
Amount: 9  
Conc: 723



Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 11:08  
Manual Integration Reason: Split Peak

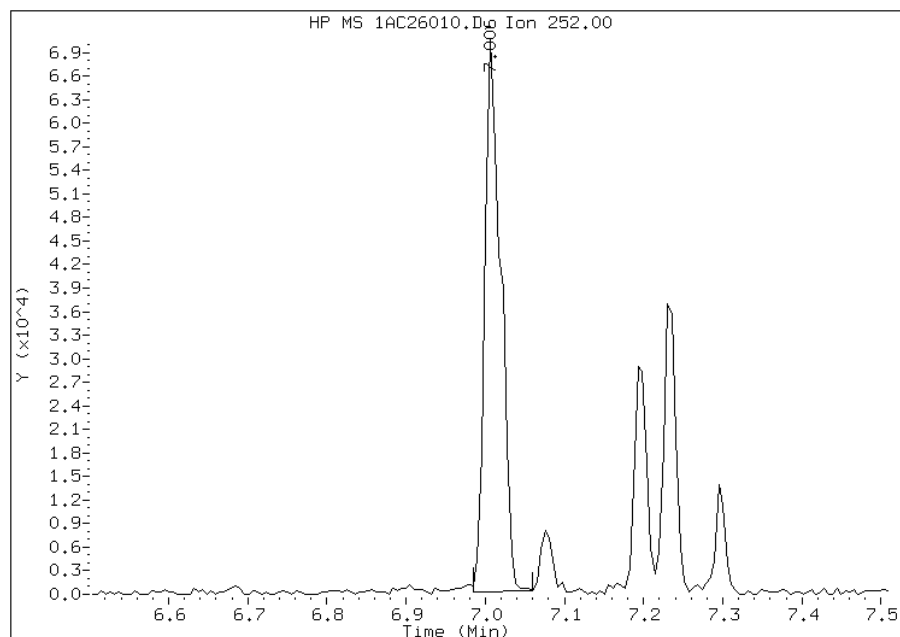


# Manual Integration Report

Data File: 1AC26010.D  
Inj. Date and Time: 26-MAR-2013 13:23  
Instrument ID: BSMA5973.i  
Client ID: FM0004A-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 03/28/2013

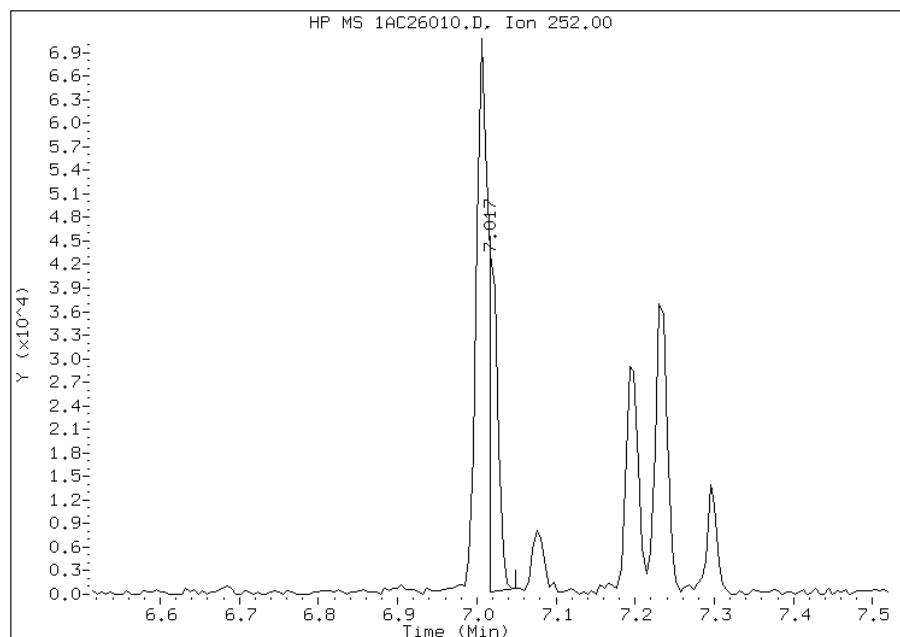
## Processing Integration Results

RT: 7.01  
Response: 97071  
Amount: 10  
Conc: 799



## Manual Integration Results

RT: 7.02  
Response: 33865  
Amount: 3  
Conc: 279



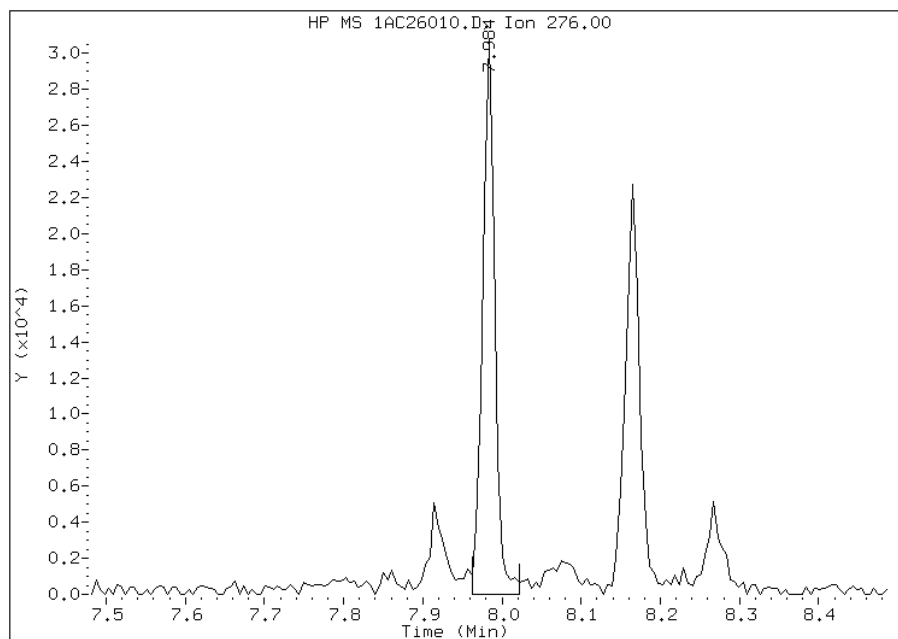
Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 11:08  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AC26010.D  
Inj. Date and Time: 26-MAR-2013 13:23  
Instrument ID: BSMA5973.i  
Client ID: FM0004A-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/28/2013

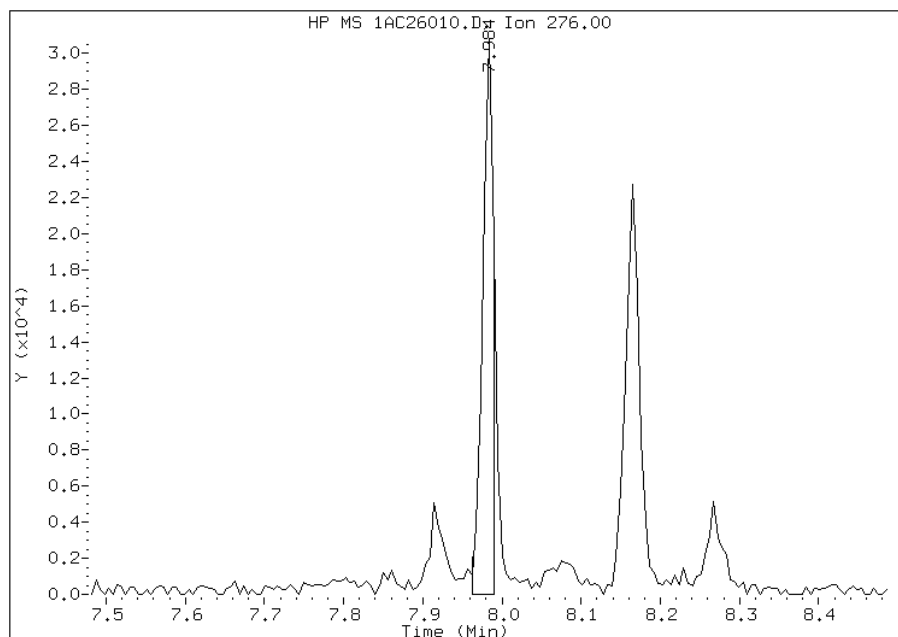
## Processing Integration Results

RT: 7.98  
Response: 32388  
Amount: 4  
Conc: 340



## Manual Integration Results

RT: 7.98  
Response: 28174  
Amount: 4  
Conc: 295



Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 11:08  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: FM0004A-CSD Lab Sample ID: 680-88420-16  
 Matrix: Solid Lab File ID: 1AC26011.D  
 Analysis Method: 8270C LL Date Collected: 03/14/2013 12:50  
 Extract. Method: 3546 Date Extracted: 03/21/2013 11:14  
 Sample wt/vol: 15.48(g) Date Analyzed: 03/26/2013 13:39  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 21.6 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135850 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	48	J	120	25
208-96-8	Acenaphthylene	65		49	6.2
120-12-7	Anthracene	68		10	5.2
56-55-3	Benzo[a]anthracene	360		9.9	4.8
50-32-8	Benzo[a]pyrene	310		13	6.4
205-99-2	Benzo[b]fluoranthene	580		15	7.5
191-24-2	Benzo[g,h,i]perylene	260		25	5.4
207-08-9	Benzo[k]fluoranthene	160		9.9	4.5
218-01-9	Chrysene	430		11	5.6
53-70-3	Dibenz(a,h)anthracene	59		25	5.1
206-44-0	Fluoranthene	710		25	4.9
86-73-7	Fluorene	25	U	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	240		25	8.8
90-12-0	1-Methylnaphthalene	32	J	49	5.4
91-57-6	2-Methylnaphthalene	100		49	8.8
91-20-3	Naphthalene	47	J	49	5.4
85-01-8	Phenanthrene	270		9.9	4.8
129-00-0	Pyrene	610		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	67		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMA5973.i\1A032613.b\1AC26011.D  
 Lab Smp Id: 680-88420-A-16-A Client Smp ID: FM0004A-CSD  
 Inj Date : 26-MAR-2013 13:39  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-88420-a-16-a  
 Misc Info : 680-88420-A-16-A  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMA5973.i\1A032613.b\a-bFASTPAHi-m.m  
 Meth Date : 26-Mar-2013 11:39 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D  
 Als bottle: 11  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.480	Weight Extracted
M	21.612	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.271	2.272	(1.000)	386544	40.0000	
* 6 Acenaphthene-d10	164		3.291	3.287	(1.000)	300722	40.0000	
* 10 Phenanthrene-d10	188		4.210	4.205	(1.000)	471047	40.0000	
\$ 14 o-Terphenyl	230		4.482	4.478	(1.065)	41412	6.72651	554.3335
* 18 Chrysene-d12	240		6.197	6.193	(1.000)	329663	40.0000	
* 23 Perylene-d12	264		7.287	7.272	(1.000)	370842	40.0000	
2 Naphthalene	128		2.281	2.282	(1.005)	5123	0.57365	47.2749
3 2-Methylnaphthalene	141		2.682	2.683	(1.181)	2085	1.26147	103.9578
4 1-Methylnaphthalene	142		2.735	2.736	(1.205)	2018	0.39297	32.3850
5 Acenaphthylene	152		3.205	3.201	(0.974)	6721	0.79471	65.4920
7 Acenaphthene	154		3.307	3.308	(1.005)	1040	0.58540	48.2426(Q)
11 Phenanthrene	178		4.220	4.221	(1.003)	38750	3.24579	267.4860
12 Anthracene	178		4.253	4.253	(1.010)	9595	0.82887	68.3075
13 Carbazole	167		4.413	4.408	(1.048)	6266	0.61758	50.8947

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.065	5.065	(1.203)	101729	8.62024	710.3958
16 Pyrene	202	5.230	5.226	(0.844)	70307	7.43816	612.9808
17 Benzo(a)anthracene	228	6.186	6.177	(0.998)	40356	4.38982	361.7663
19 Chrysene	228	6.208	6.209	(1.002)	44730	5.23869	431.7216
20 Benzo(b)fluoranthene	252	7.009	6.994	(0.962)	60228	7.09668	584.8392(M)
21 Benzo(k)fluoranthene	252	7.020	7.015	(0.963)	19231	1.92250	158.4333(QM)
22 Benzo(a)pyrene	252	7.233	7.224	(0.993)	32597	3.74553	308.6701
24 Indeno(1,2,3-cd)pyrene	276	7.987	7.972	(1.096)	22866	2.91188	239.9686(M)
25 Dibenzo(a,h)anthracene	278	7.992	7.982	(1.097)	5587	0.71787	59.1599
26 Benzo(g,h,i)perylene	276	8.168	8.148	(1.121)	24500	3.09950	255.4305

QC Flag Legend

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

Data File: 1AC26011.D

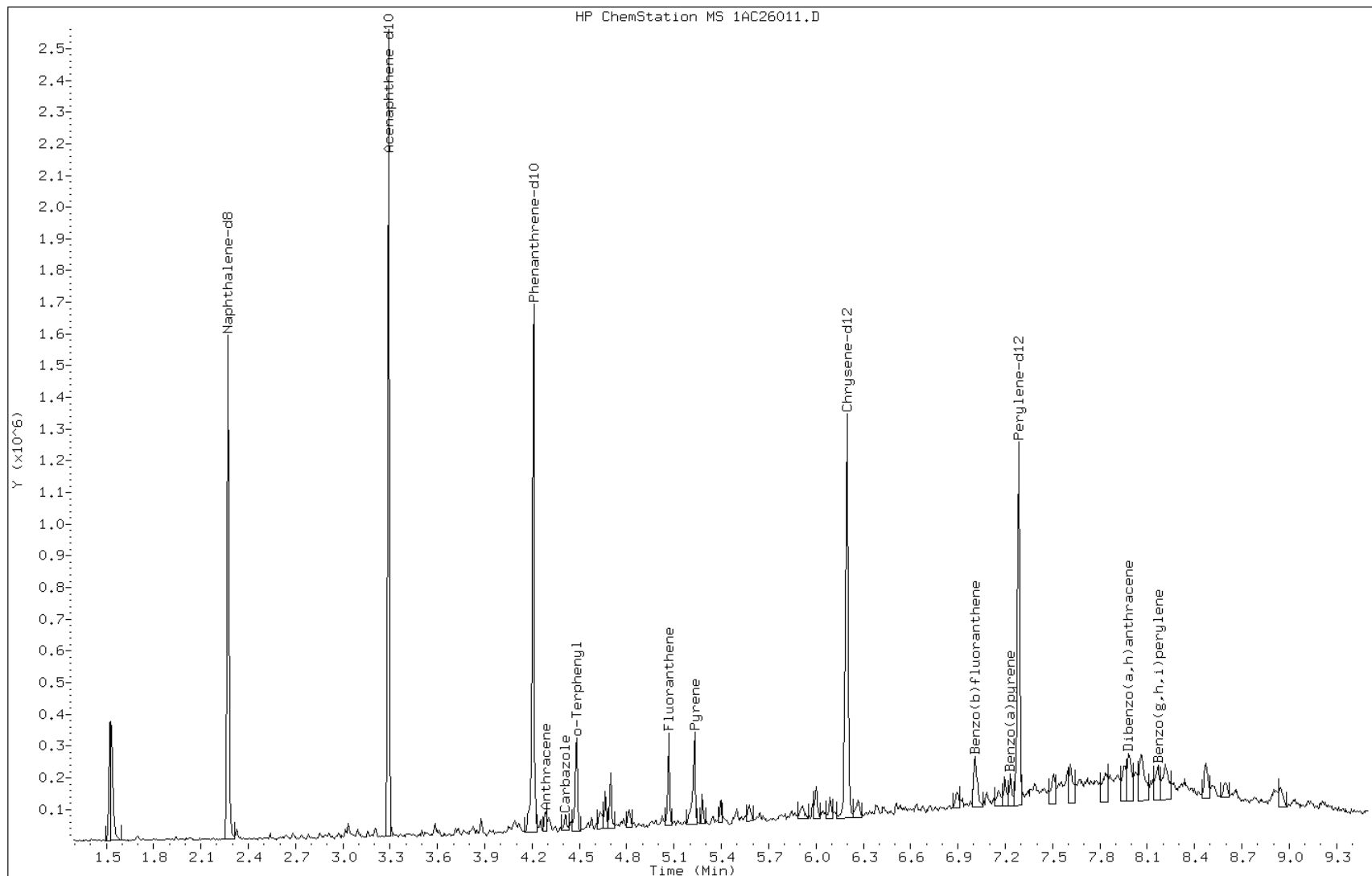
Date: 26-MAR-2013 13:39

Client ID: FM0004A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-16-a

Operator: SCC



Data File: 1AC26011.D

Date: 26-MAR-2013 13:39

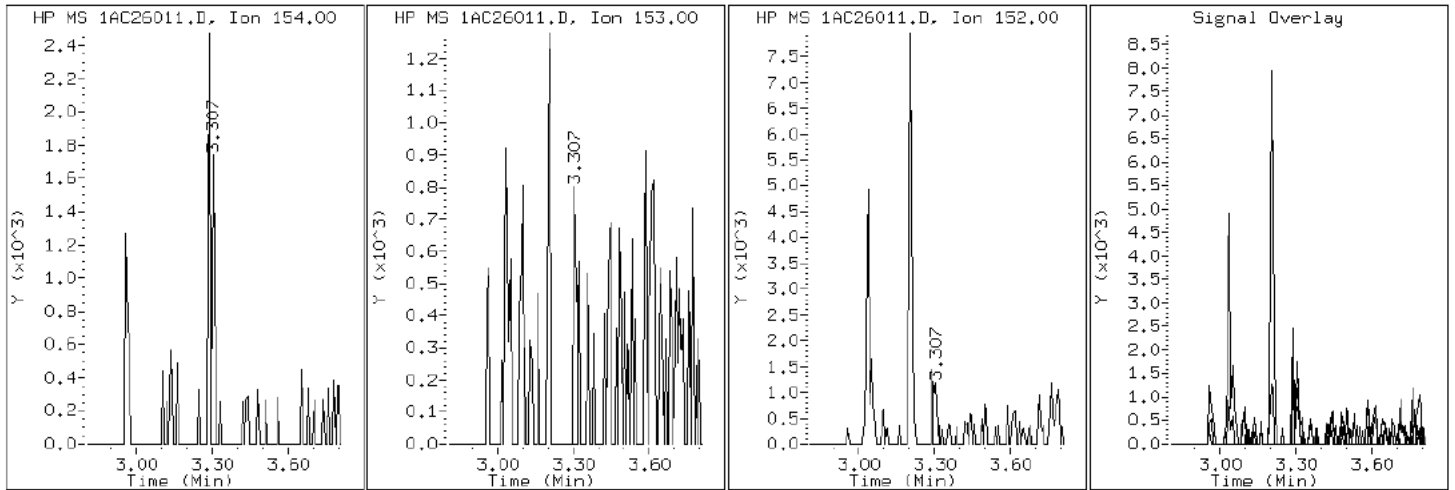
Client ID: FM0004A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-16-a

Operator: SCC

7 Acenaphthene



Data File: 1AC26011.D

Date: 26-MAR-2013 13:39

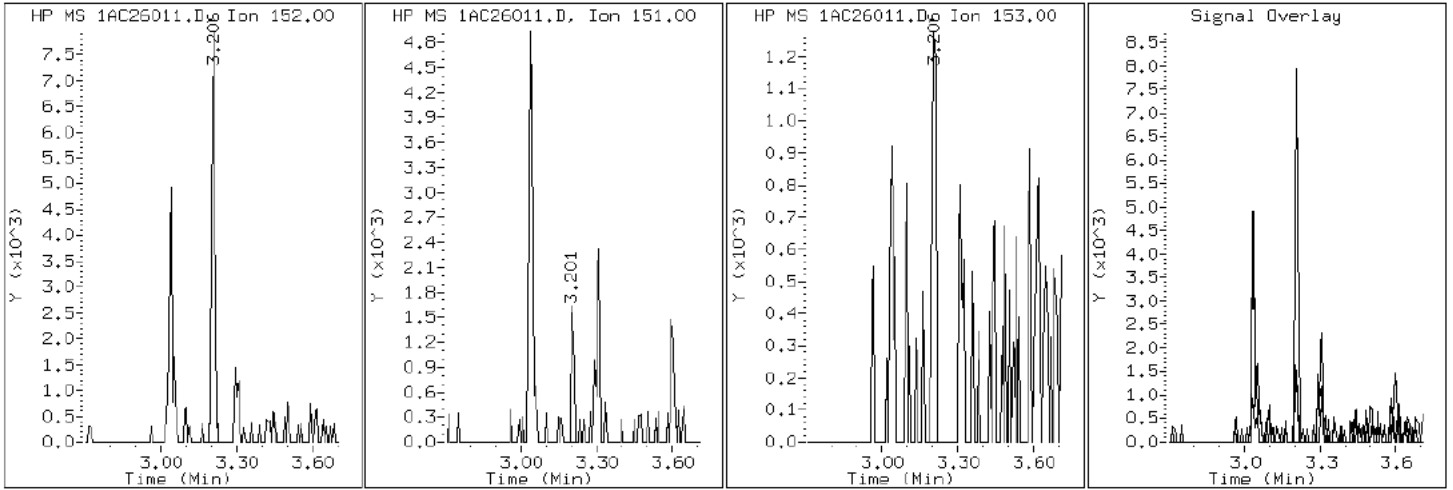
Client ID: FM0004A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-16-a

Operator: SCC

5 Acenaphthylene





Data File: 1AC26011.D

Date: 26-MAR-2013 13:39

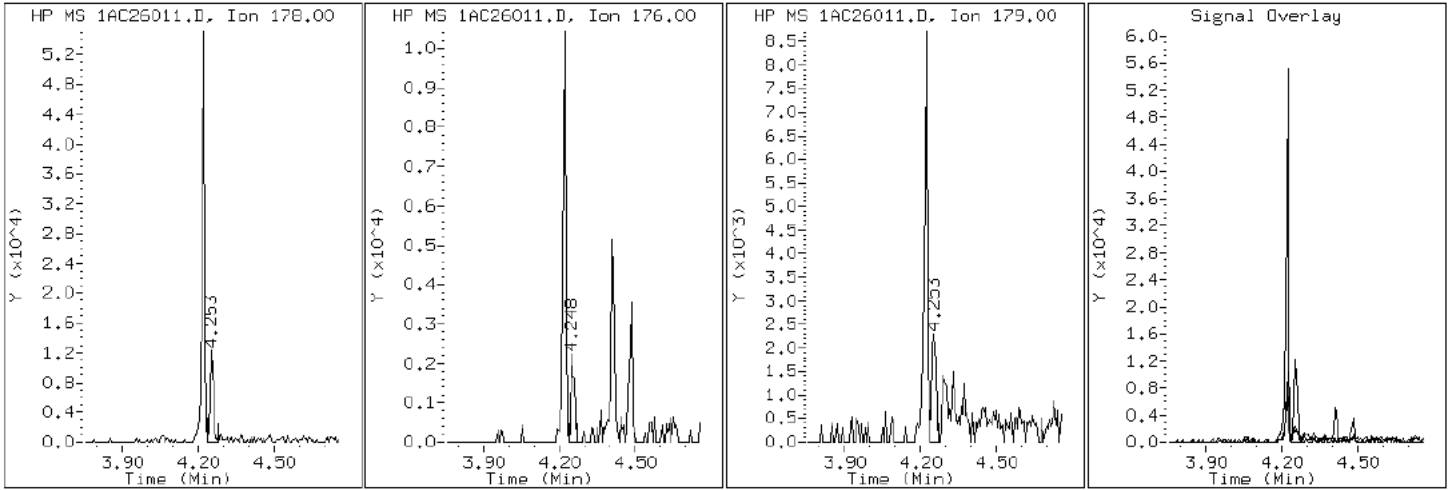
Client ID: FM0004A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-16-a

Operator: SCC

12 Anthracene



Data File: 1AC26011.D

Date: 26-MAR-2013 13:39

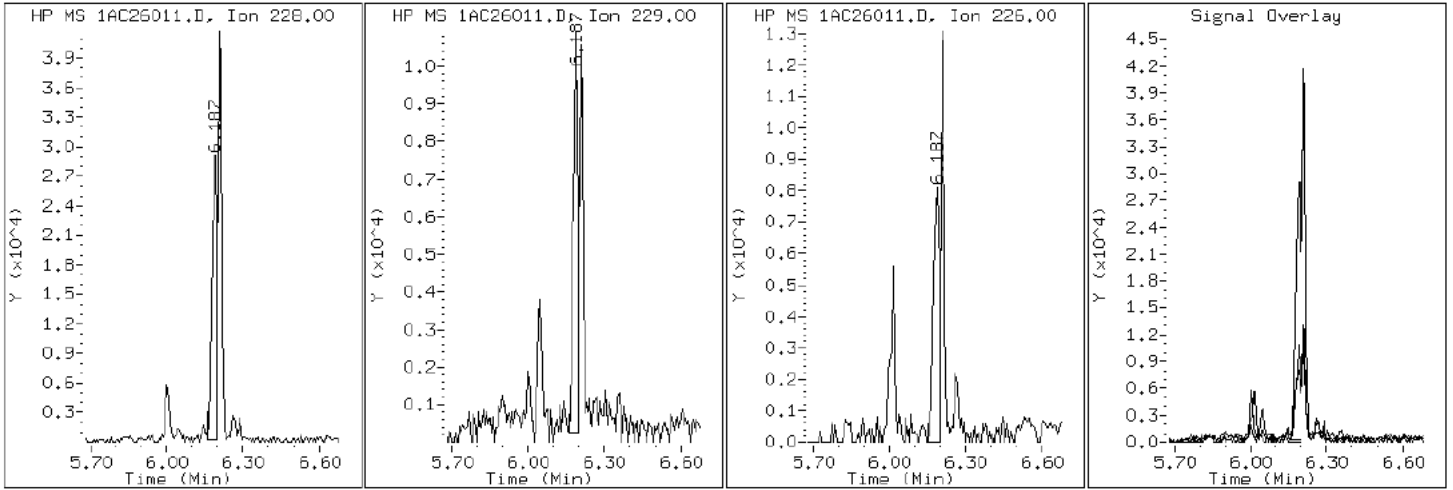
Client ID: FM0004A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-16-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC26011.D

Date: 26-MAR-2013 13:39

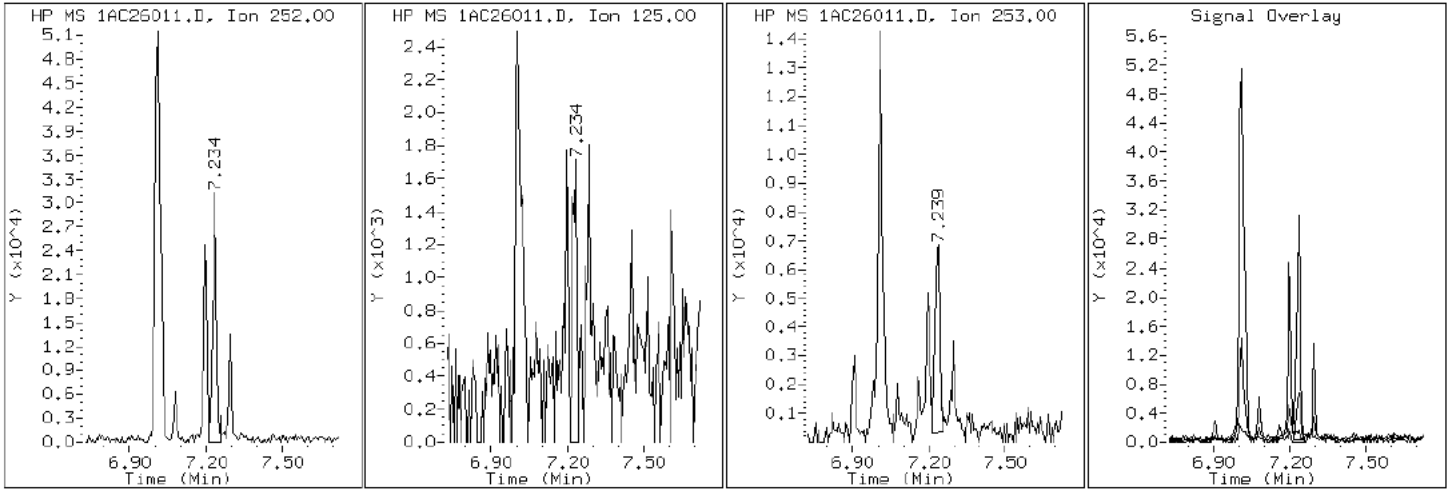
Client ID: FM0004A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-16-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC26011.D

Date: 26-MAR-2013 13:39

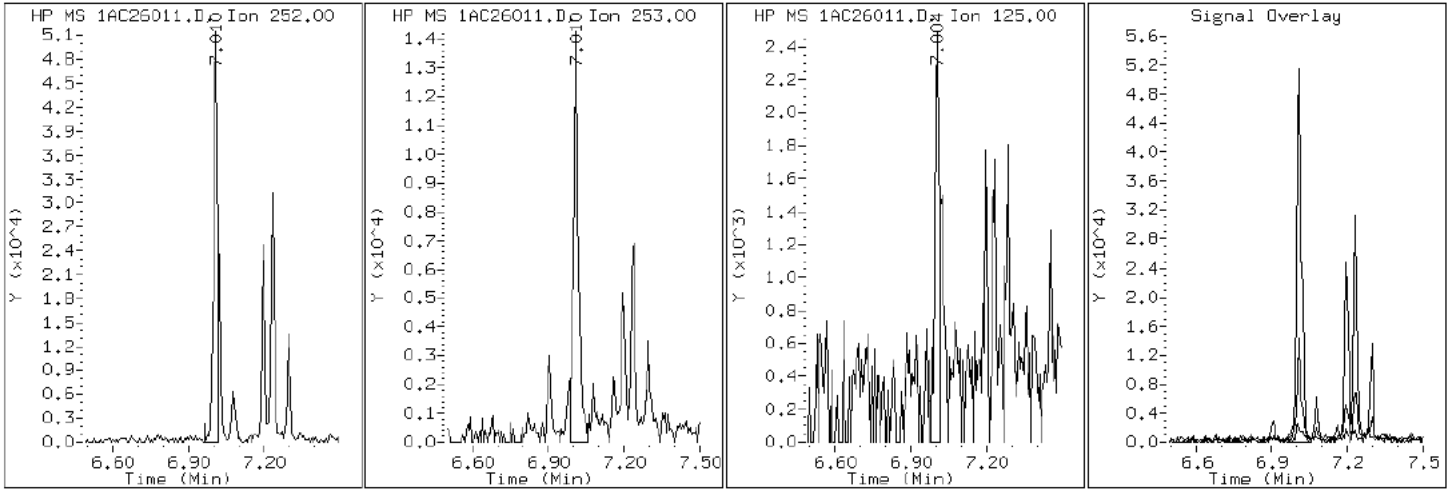
Client ID: FM0004A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-16-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC26011.D

Date: 26-MAR-2013 13:39

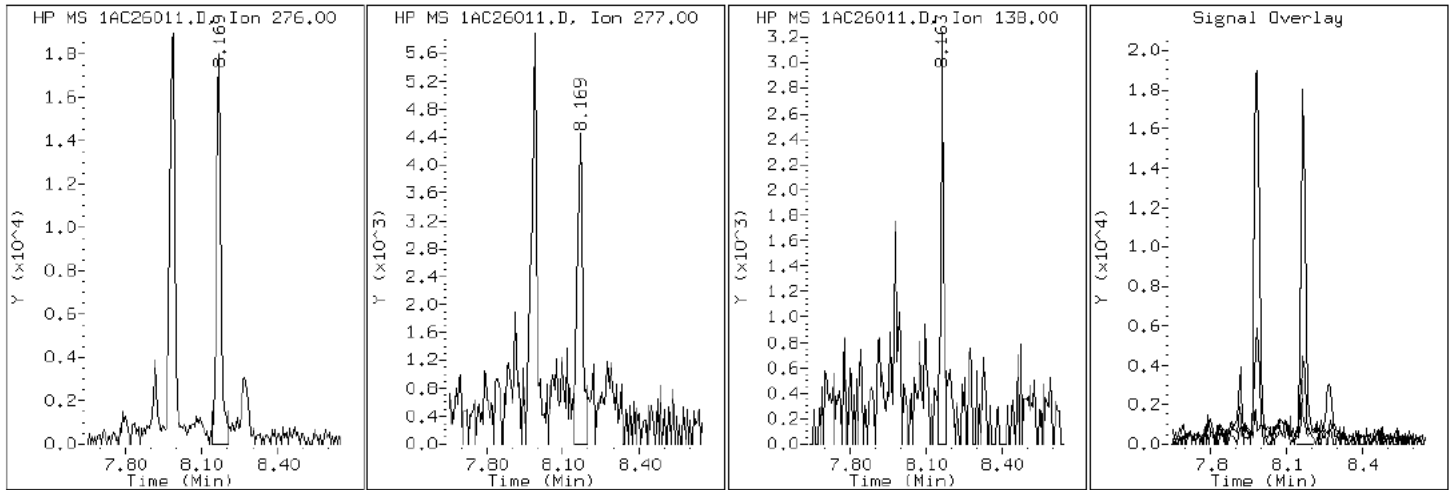
Client ID: FM0004A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-16-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC26011.D

Date: 26-MAR-2013 13:39

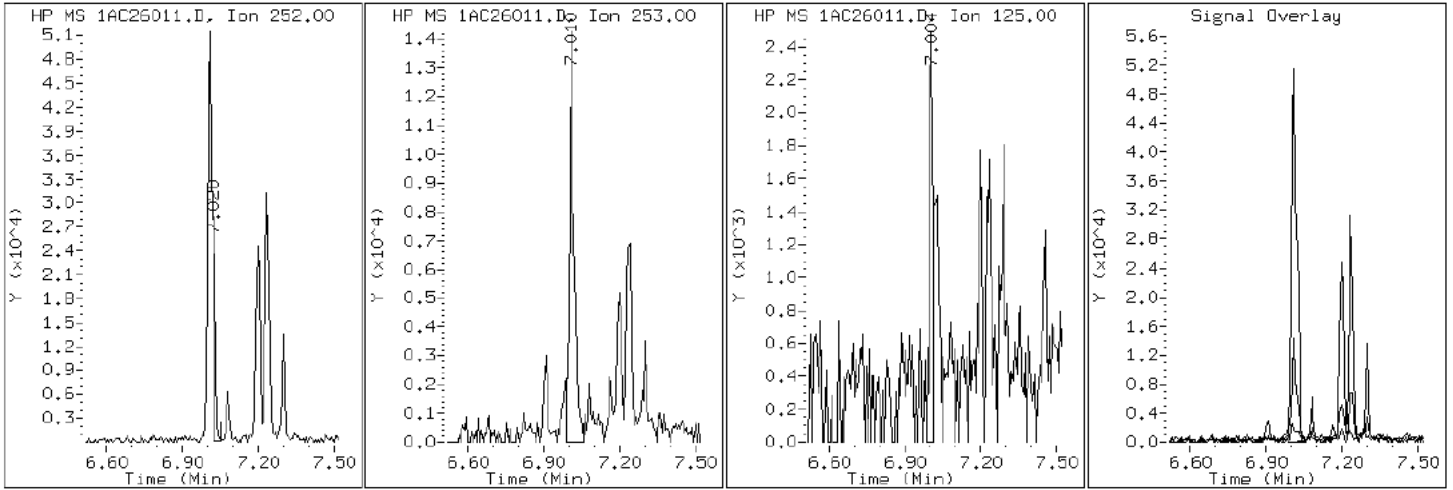
Client ID: FM0004A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-16-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC26011.D

Date: 26-MAR-2013 13:39

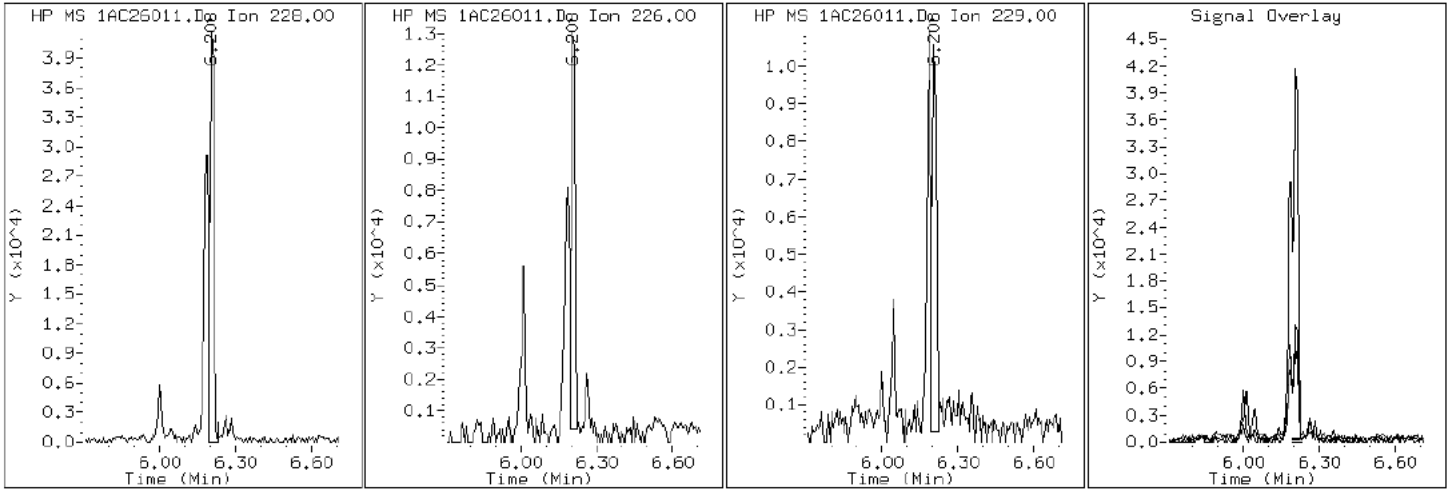
Client ID: FM0004A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-16-a

Operator: SCC

19 Chrysene



Data File: 1AC26011.D

Date: 26-MAR-2013 13:39

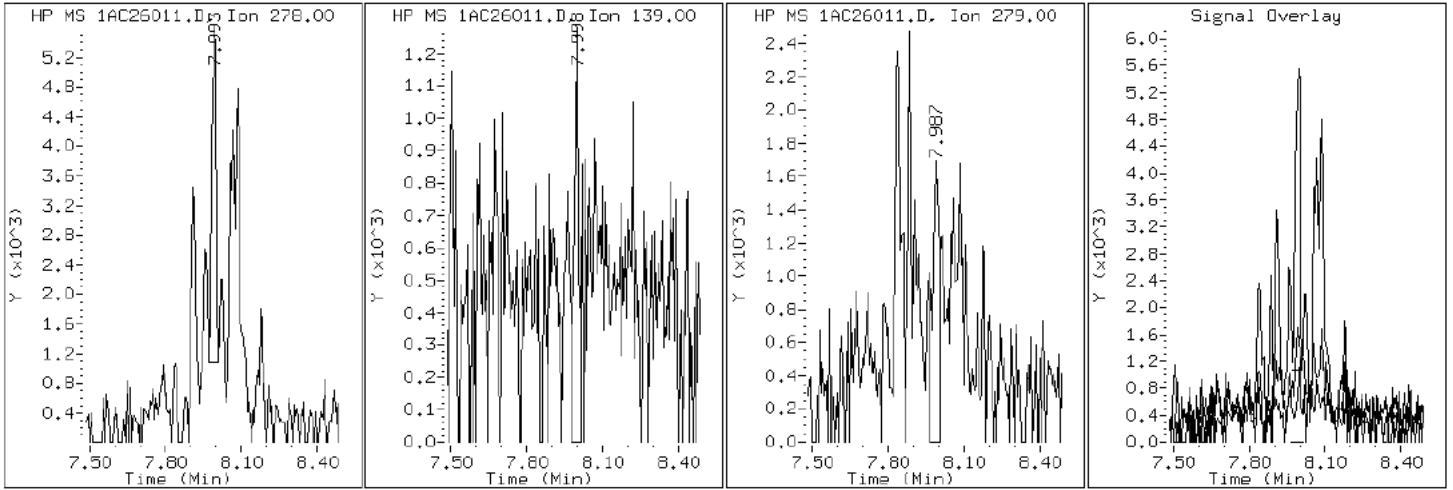
Client ID: FM0004A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-16-a

Operator: SCC

25 Dibenzo (a,h) anthracene





Data File: 1AC26011.D

Date: 26-MAR-2013 13:39

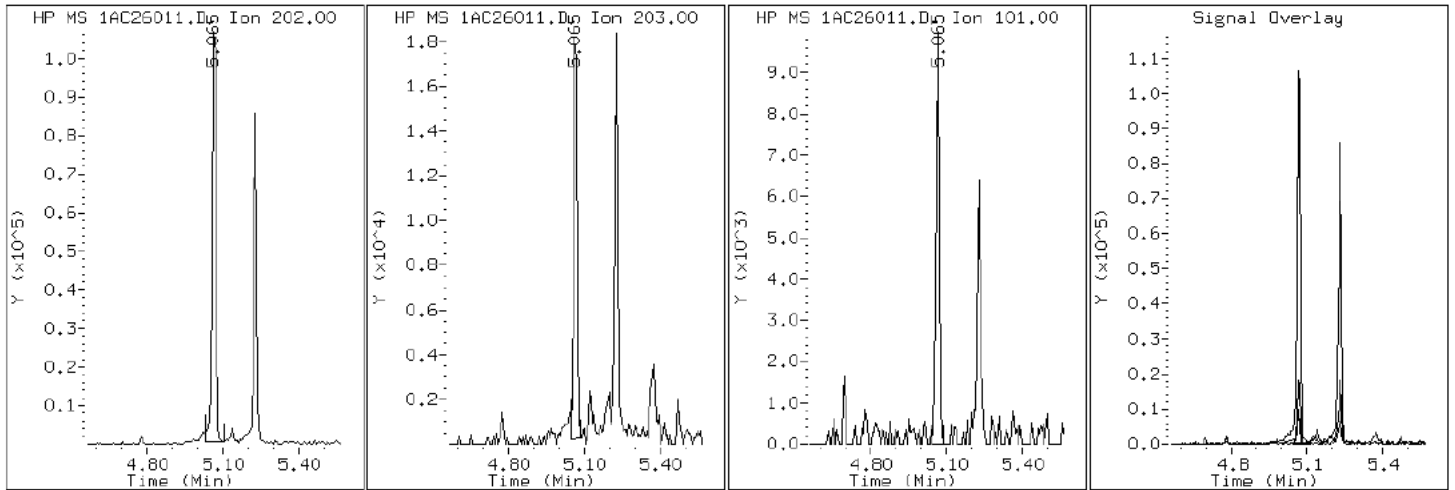
Client ID: FM0004A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-16-a

Operator: SCC

15 Fluoranthene



Data File: 1AC26011.D

Date: 26-MAR-2013 13:39

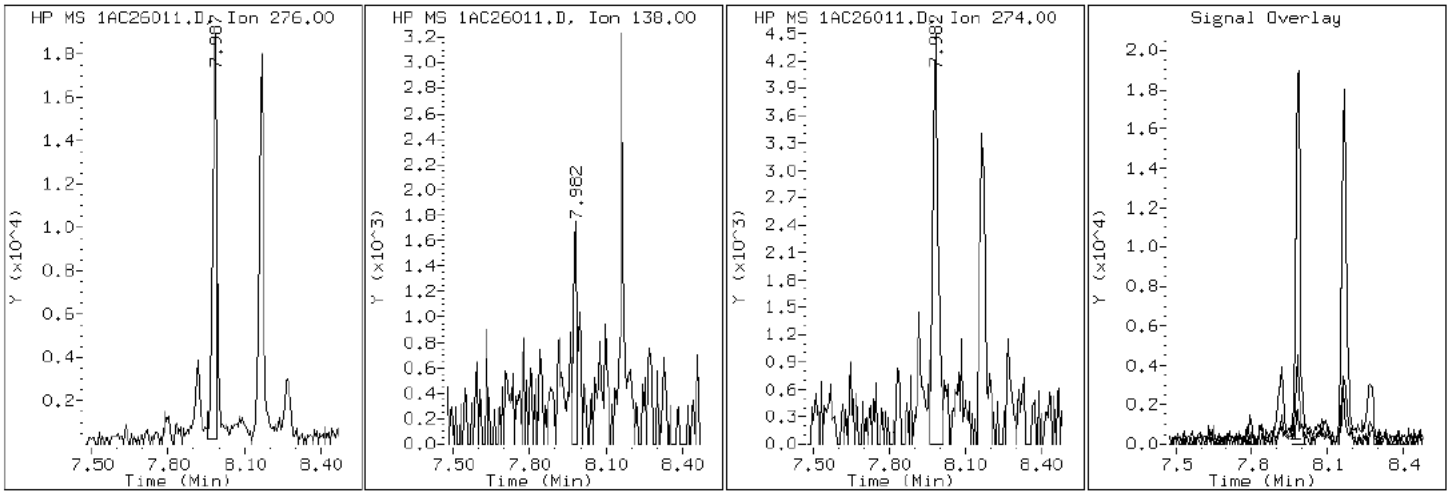
Client ID: FM0004A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-16-a

Operator: SCC

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



Data File: 1AC26011.D

Date: 26-MAR-2013 13:39

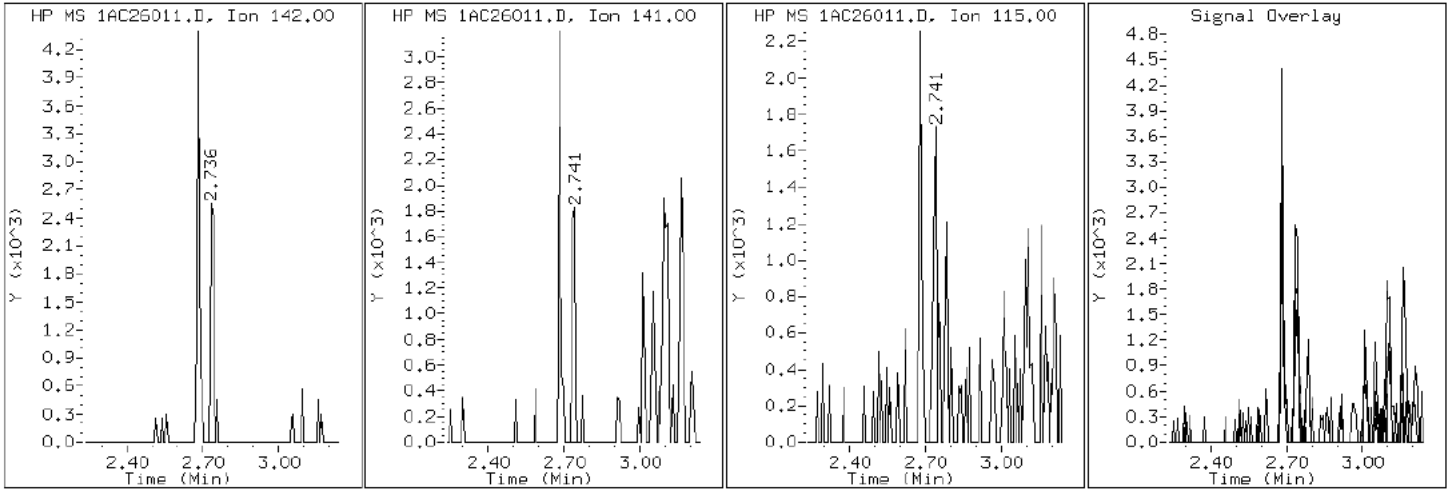
Client ID: FM0004A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-16-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC26011.D

Date: 26-MAR-2013 13:39

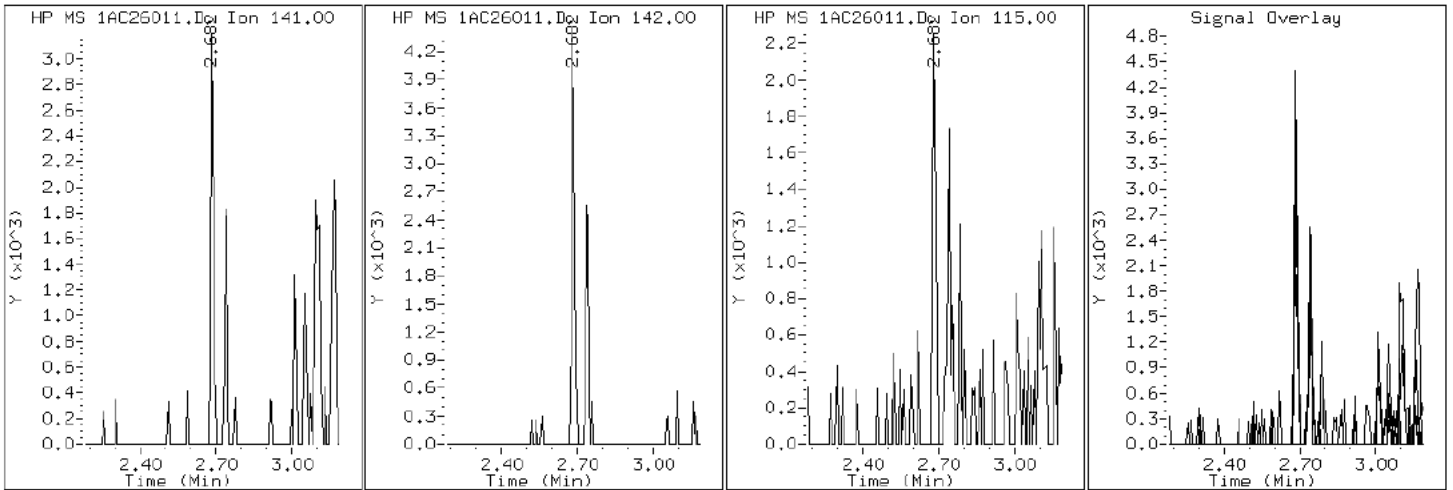
Client ID: FM0004A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-16-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC26011.D

Date: 26-MAR-2013 13:39

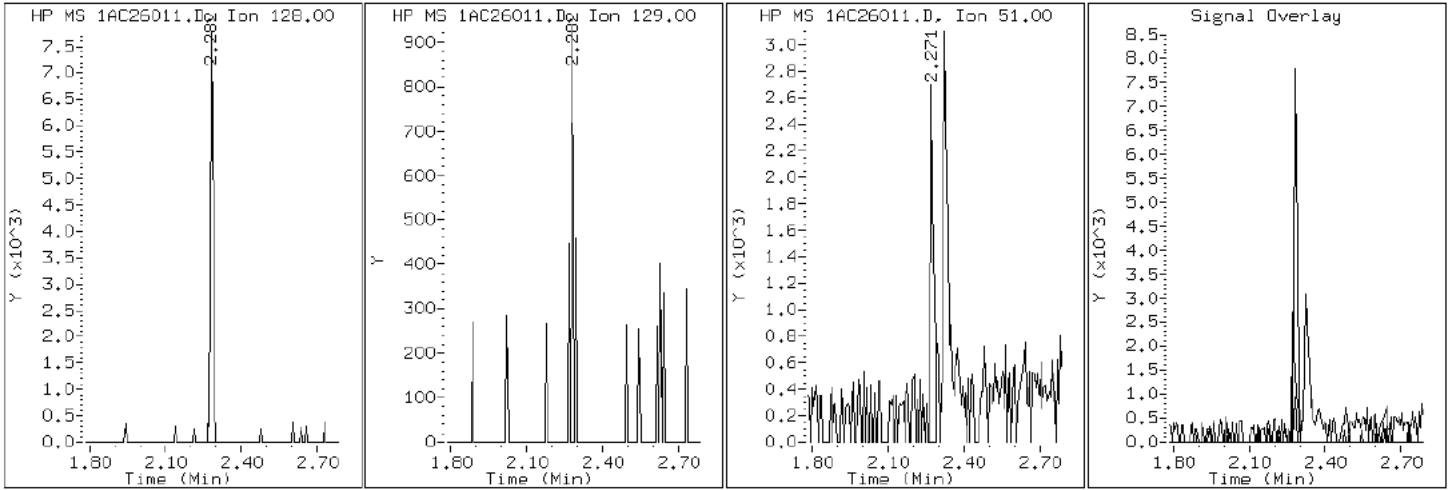
Client ID: FM0004A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-16-a

Operator: SCC

2 Naphthalene



Data File: 1AC26011.D

Date: 26-MAR-2013 13:39

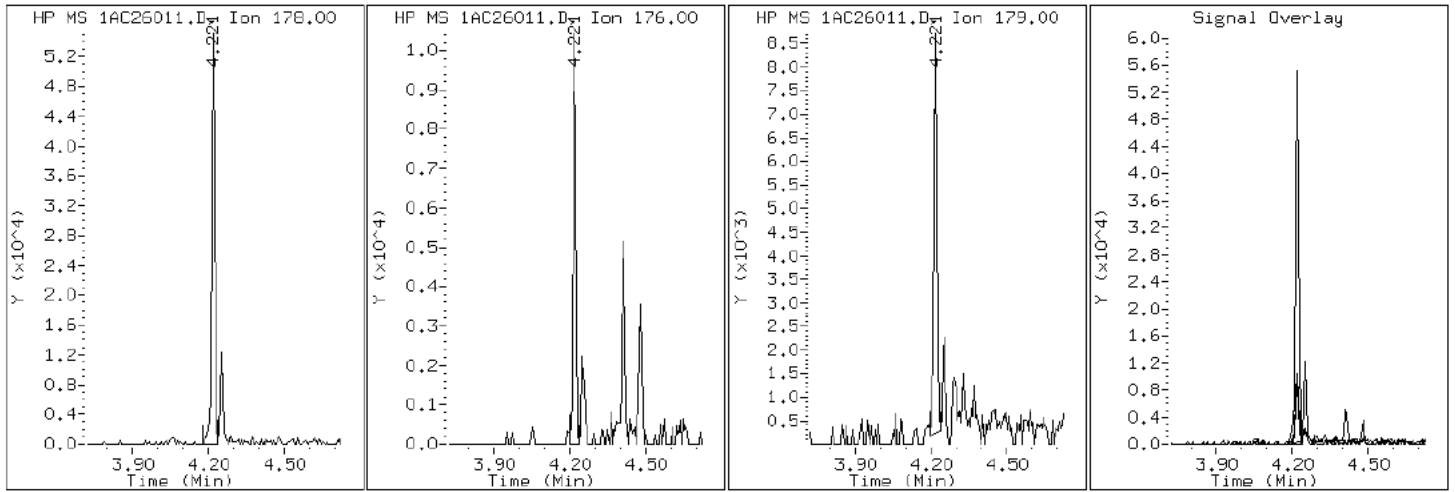
Client ID: FM0004A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-16-a

Operator: SCC

11 Phenanthrene



Data File: 1AC26011.D

Date: 26-MAR-2013 13:39

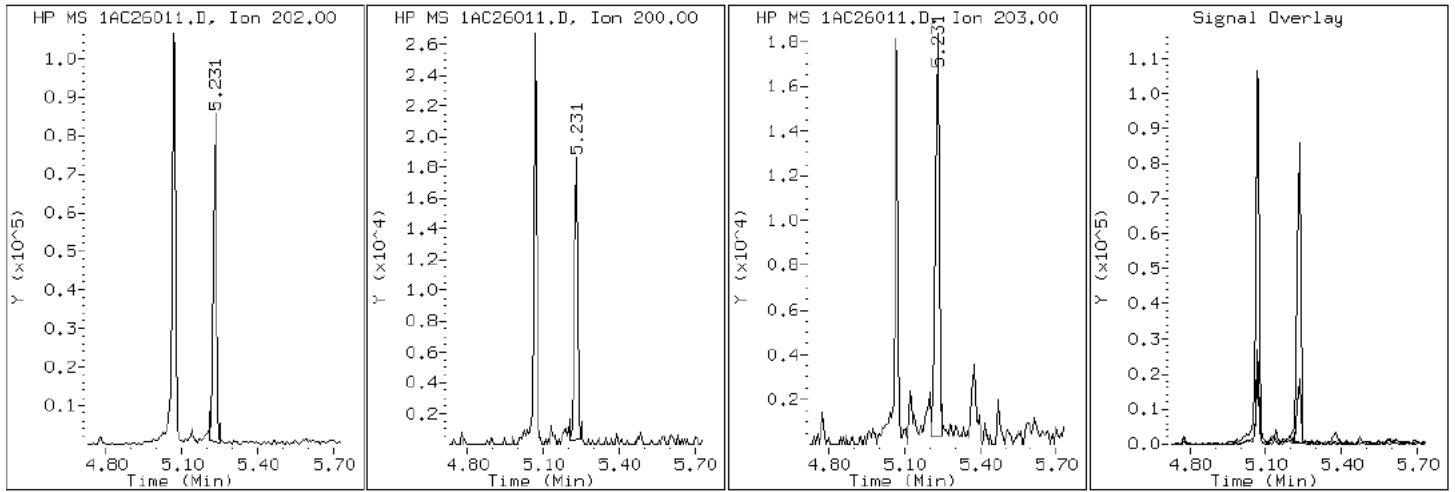
Client ID: FM0004A-CSD

Instrument: BSMA5973.i

Sample Info: 680-88420-a-16-a

Operator: SCC

16 Pyrene

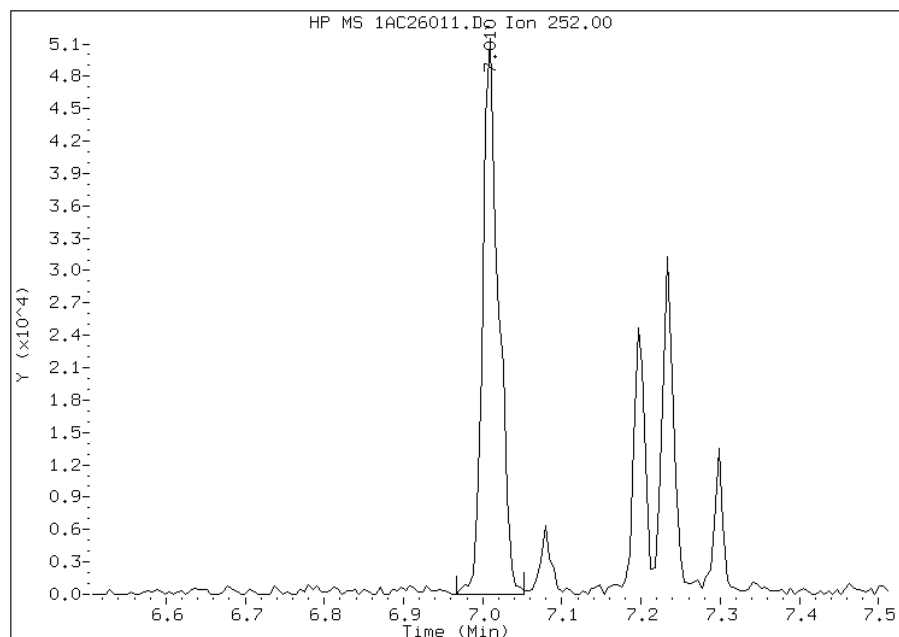


# Manual Integration Report

Data File: 1AC26011.D  
Inj. Date and Time: 26-MAR-2013 13:39  
Instrument ID: BSMA5973.i  
Client ID: FM0004A-CSD  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 03/28/2013

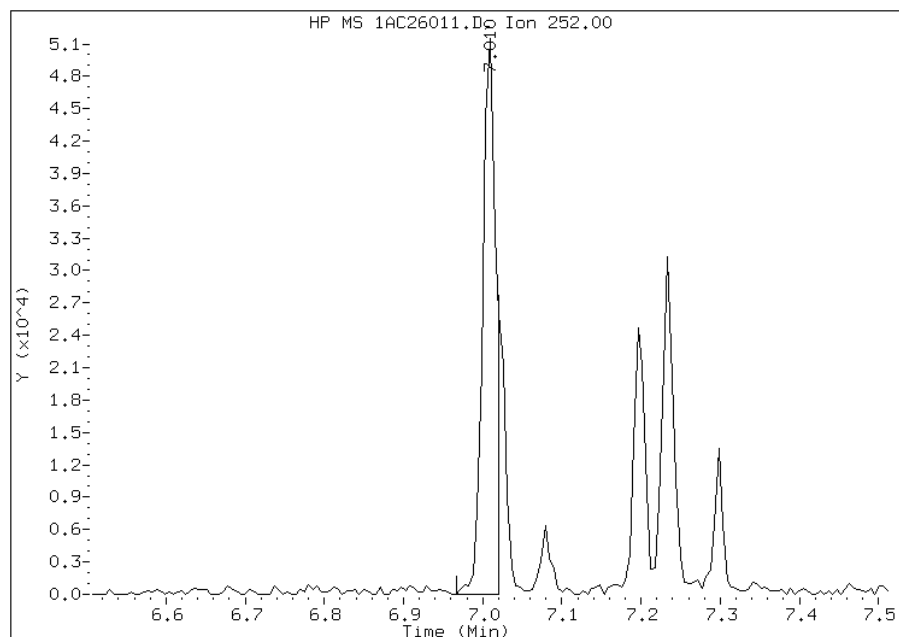
## Processing Integration Results

RT: 7.01  
Response: 71301  
Amount: 8  
Conc: 674



## Manual Integration Results

RT: 7.01  
Response: 60228  
Amount: 7  
Conc: 585



Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 11:09  
Manual Integration Reason: Split Peak

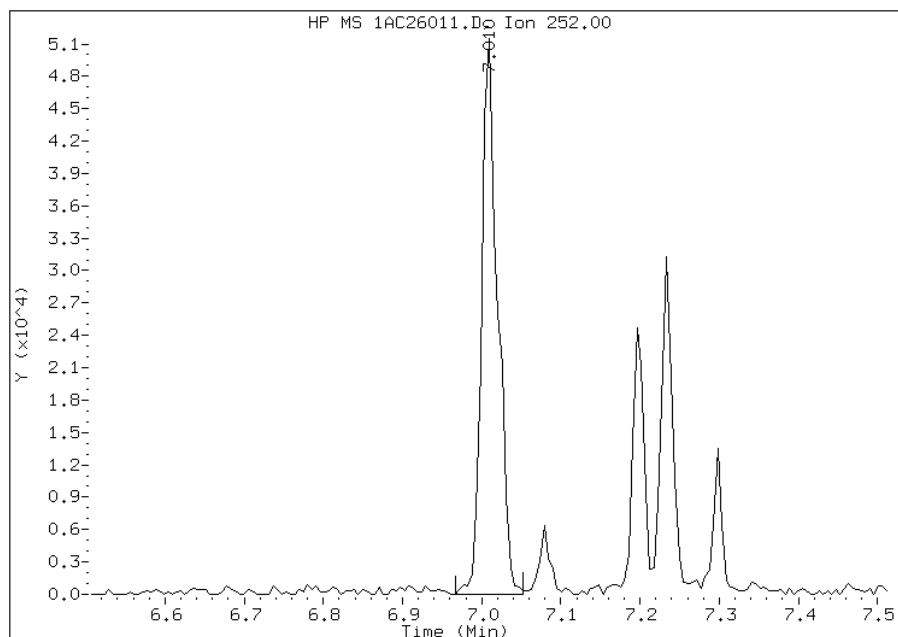


# Manual Integration Report

Data File: 1AC26011.D  
Inj. Date and Time: 26-MAR-2013 13:39  
Instrument ID: BSMA5973.i  
Client ID: FM0004A-CSD  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 03/28/2013

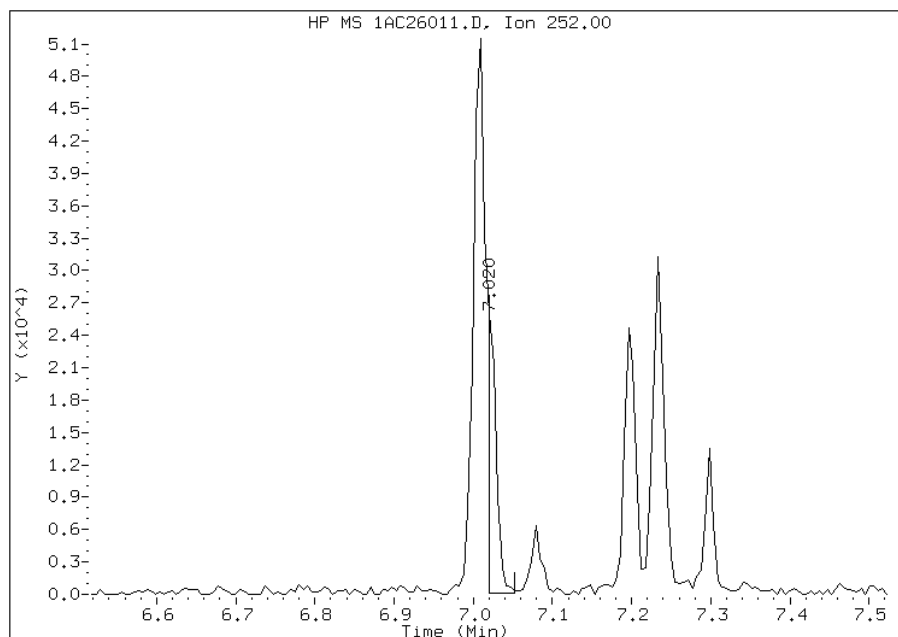
## Processing Integration Results

RT: 7.01  
Response: 71301  
Amount: 7  
Conc: 587



## Manual Integration Results

RT: 7.02  
Response: 19231  
Amount: 2  
Conc: 158



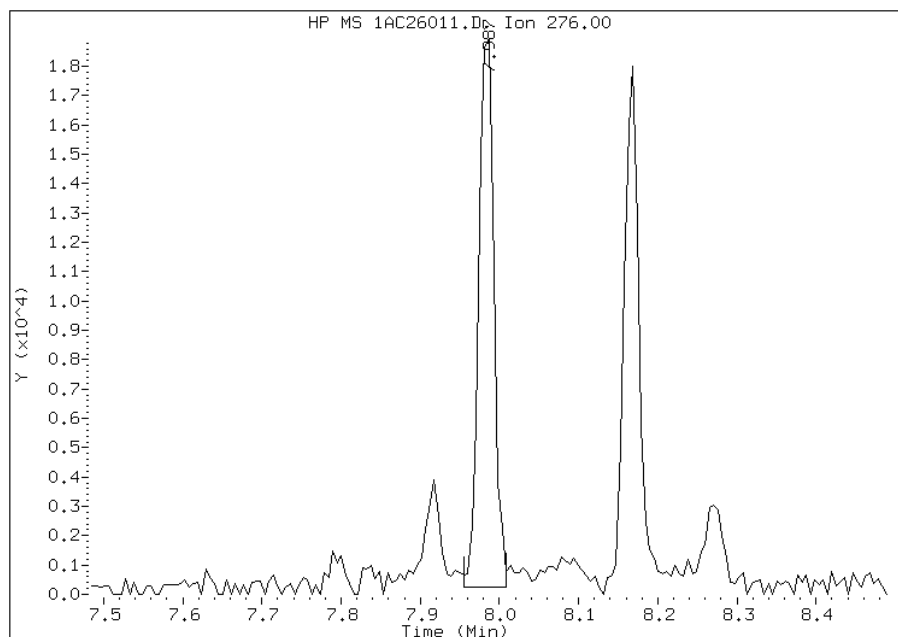
Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 11:09  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AC26011.D  
Inj. Date and Time: 26-MAR-2013 13:39  
Instrument ID: BSMA5973.i  
Client ID: FM0004A-CSD  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/28/2013

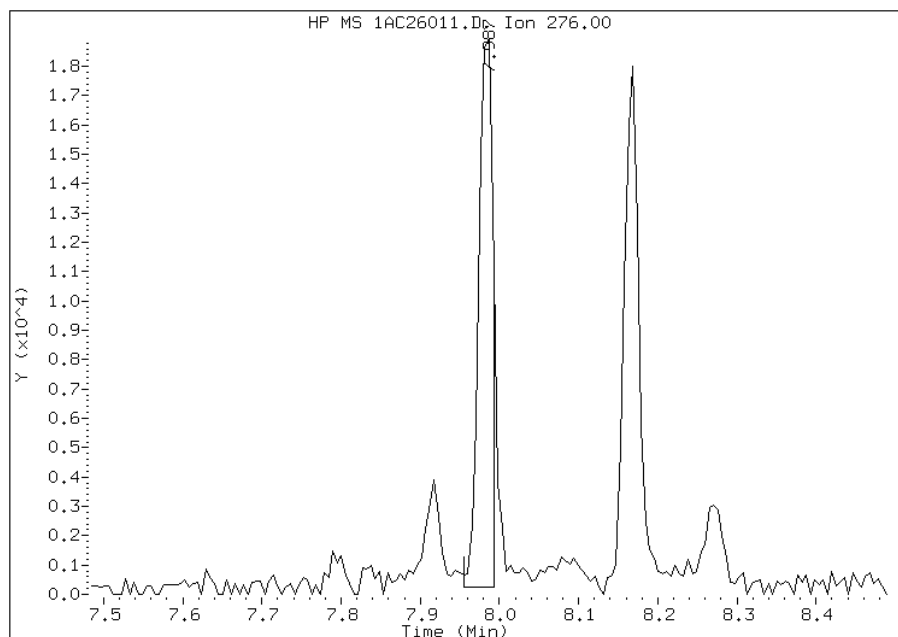
## Processing Integration Results

RT: 7.99  
Response: 24804  
Amount: 3  
Conc: 260



## Manual Integration Results

RT: 7.99  
Response: 22866  
Amount: 3  
Conc: 240



Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 11:09  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: FM0004B-CS Lab Sample ID: 680-88420-17  
 Matrix: Solid Lab File ID: 1CC27031.D  
 Analysis Method: 8270C LL Date Collected: 03/14/2013 13:00  
 Extract. Method: 3546 Date Extracted: 03/21/2013 11:14  
 Sample wt/vol: 15.01(g) Date Analyzed: 03/27/2013 19:21  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 18.8 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	11	J	49	6.2
120-12-7	Anthracene	33		10	5.2
56-55-3	Benzo[a]anthracene	180		9.8	4.8
50-32-8	Benzo[a]pyrene	210		13	6.4
205-99-2	Benzo[b]fluoranthene	290		15	7.5
191-24-2	Benzo[g,h,i]perylene	130		25	5.4
207-08-9	Benzo[k]fluoranthene	100		9.8	4.4
218-01-9	Chrysene	200		11	5.5
53-70-3	Dibenz(a,h)anthracene	47		25	5.0
206-44-0	Fluoranthene	260		25	4.9
86-73-7	Fluorene	14	J	25	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	120		25	8.7
90-12-0	1-Methylnaphthalene	22	J	49	5.4
91-57-6	2-Methylnaphthalene	36	J	49	8.7
91-20-3	Naphthalene	30	J	49	5.4
85-01-8	Phenanthrene	110		9.8	4.8
129-00-0	Pyrene	260		25	4.6

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\1CC27031.D  
 Lab Smp Id: 680-88420-A-17-A Client Smp ID: FM0004B-CS  
 Inj Date : 27-MAR-2013 19:21  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88420-a-17-a  
 Misc Info : 680-88420-A-17-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: 31  
 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	18.787	% 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)	784553	40.0000		
* 6 Acenaphthene-d10	164		4.816	4.815	(1.000)	611212	40.0000		
* 10 Phenanthrene-d10	188		5.763	5.762	(1.000)	1104604	40.0000		
\$ 14 o-Terphenyl	230		6.015	6.015	(1.044)	133097	7.98057	654.6813	
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1174582	40.0000		
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1109889	40.0000		
2 Naphthalene	128		3.739	3.739	(1.003)	7384	0.36152	29.6570(Q)	
3 2-Methylnaphthalene	142		4.169	4.168	(1.118)	6035	0.44296	36.3378	
4 1-Methylnaphthalene	142		4.227	4.227	(1.134)	3309	0.26667	21.8763	
5 Acenaphthylene	152		4.727	4.727	(0.982)	3423	0.13891	11.3952	
9 Fluorene	166		5.163	5.157	(1.072)	3401	0.17558	14.4033	
11 Phenanthrene	178		5.780	5.780	(1.003)	41532	1.30030	106.6695	
12 Anthracene	178		5.815	5.815	(1.009)	12532	0.40119	32.9110	
13 Carbazole	167		5.921	5.921	(1.028)	7979	0.28735	23.5723(Q)	

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)		112421	3.21401	263.6592
16 Pyrene	202	6.786	6.786 (0.881)		101881	3.22764	264.7773
17 Benzo(a)anthracene	228	7.698	7.698 (0.999)		74585	2.20010	180.4841
19 Chrysene	228	7.727	7.727 (1.003)		83365	2.45725	201.5789
20 Benzo(b)fluoranthene	252	8.545	8.539 (0.962)		101837	3.51095	288.0189
21 Benzo(k)fluoranthene	252	8.562	8.562 (0.964)		37388	1.25652	103.0780(Q)
22 Benzo(a)pyrene	252	8.833	8.833 (0.994)		72028	2.55655	209.7254
24 Indeno(1,2,3-cd)pyrene	276	10.050	10.050 (1.131)		38701	1.46022	119.7879(M)
25 Dibenzo(a,h)anthracene	278	10.062	10.068 (1.132)		14900	0.57475	47.1493
26 Benzo(g,h,i)perylene	276	10.398	10.397 (1.170)		44877	1.61865	132.7847

QC Flag Legend

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

Data File: 1CC27031.D

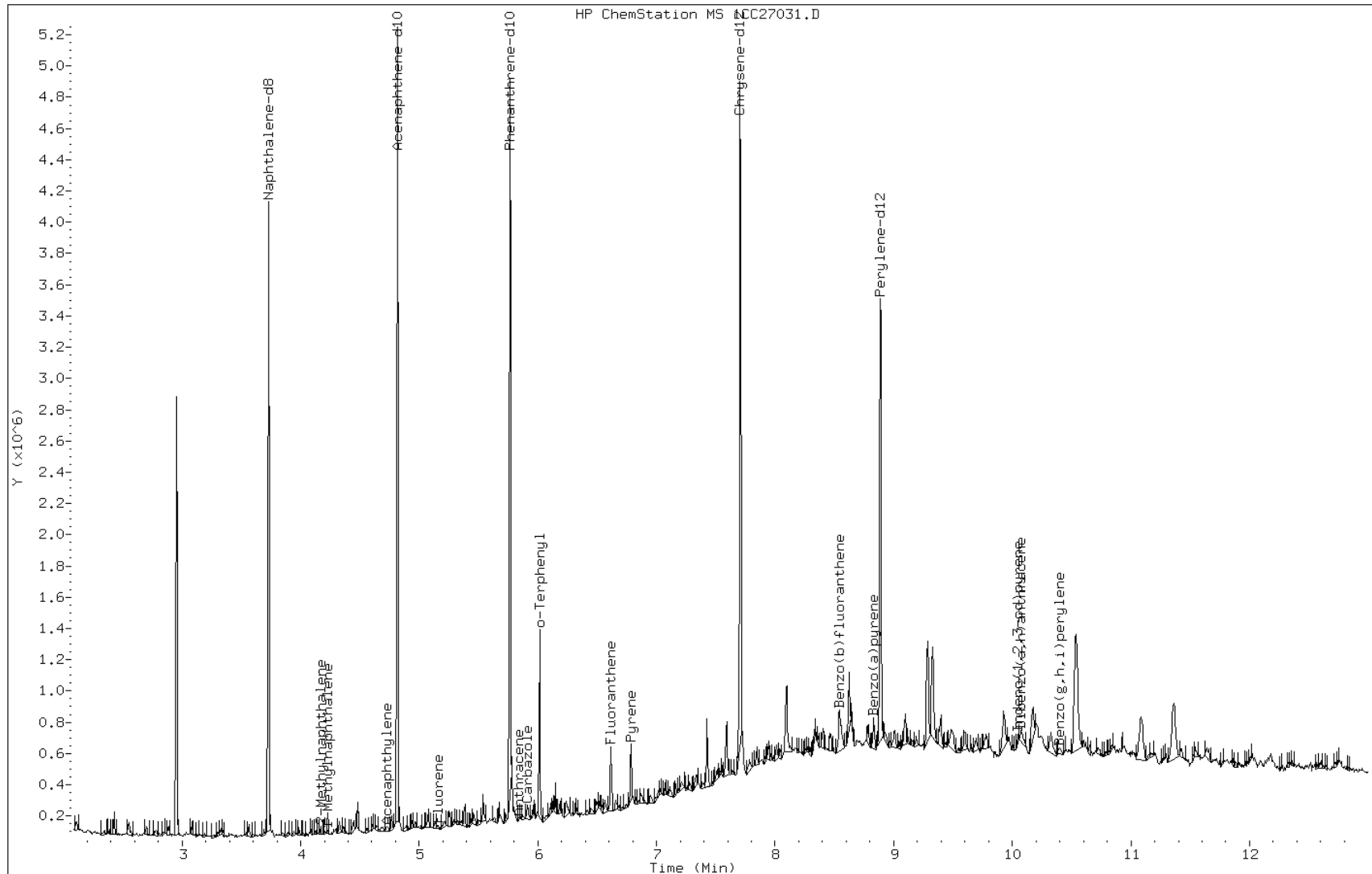
Date: 27-MAR-2013 19:21

Client ID: FM0004B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-17-a

Operator: SCC



Data File: 1CC27031.D

Date: 27-MAR-2013 19:21

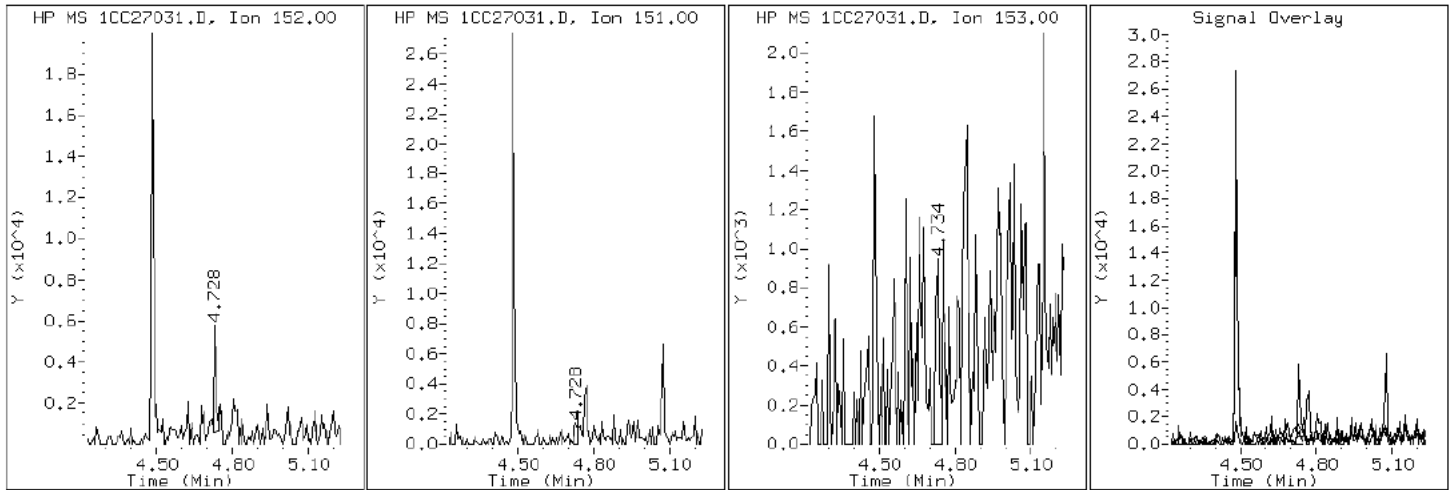
Client ID: FM0004B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-17-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC27031.D

Date: 27-MAR-2013 19:21

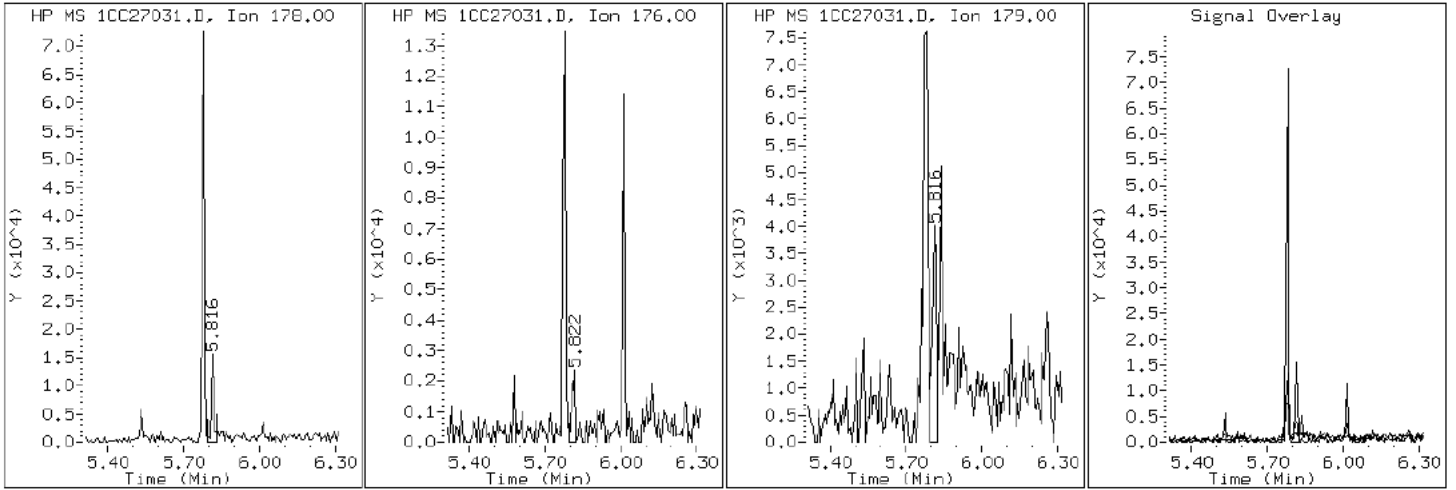
Client ID: FM0004B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-17-a

Operator: SCC

12 Anthracene





Data File: 1CC27031.D

Date: 27-MAR-2013 19:21

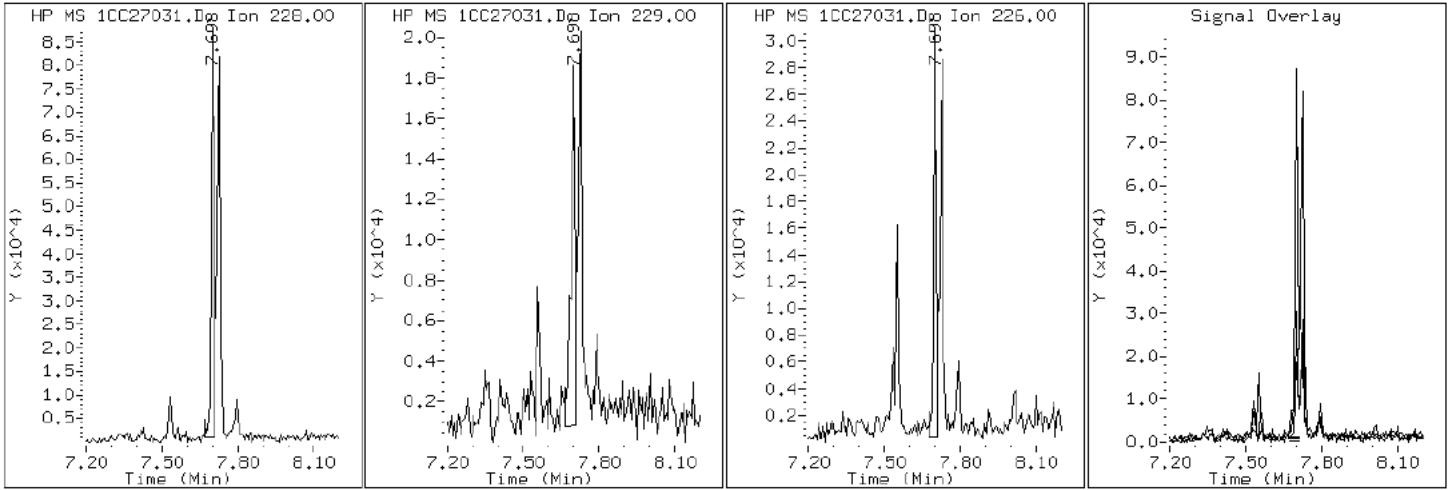
Client ID: FM0004B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-17-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC27031.D

Date: 27-MAR-2013 19:21

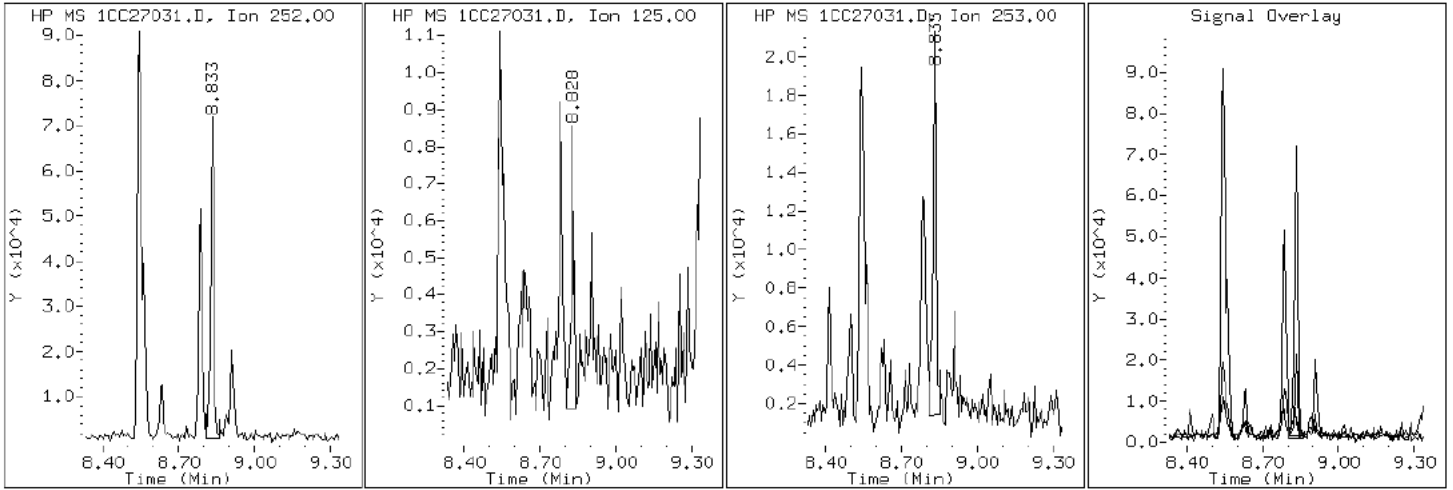
Client ID: FM0004B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-17-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC27031.D

Date: 27-MAR-2013 19:21

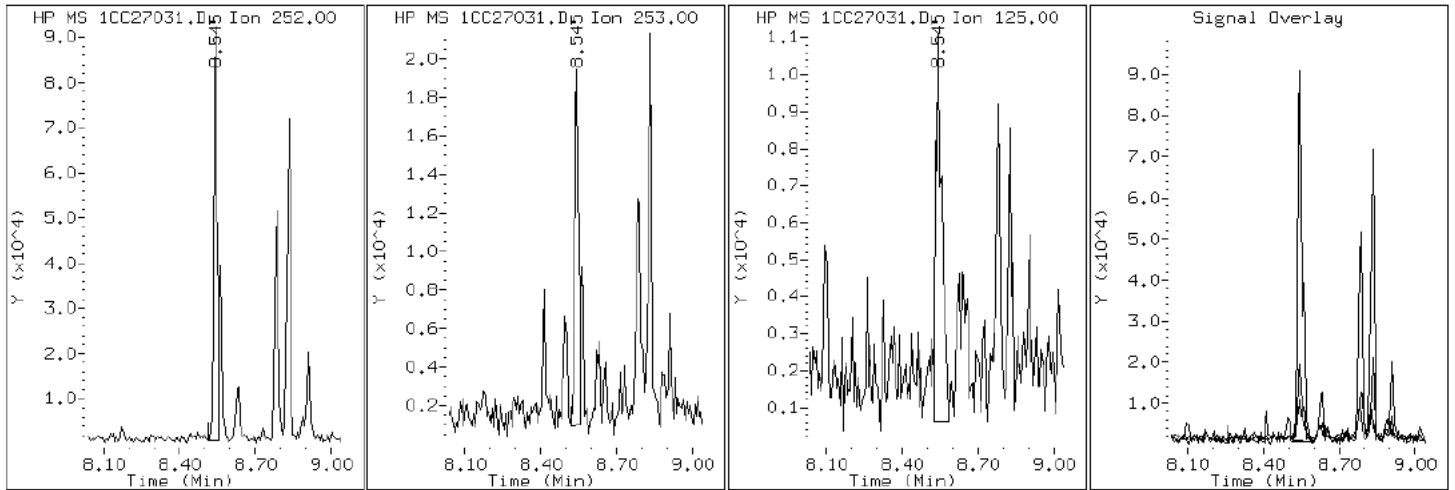
Client ID: FM0004B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-17-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC27031.D

Date: 27-MAR-2013 19:21

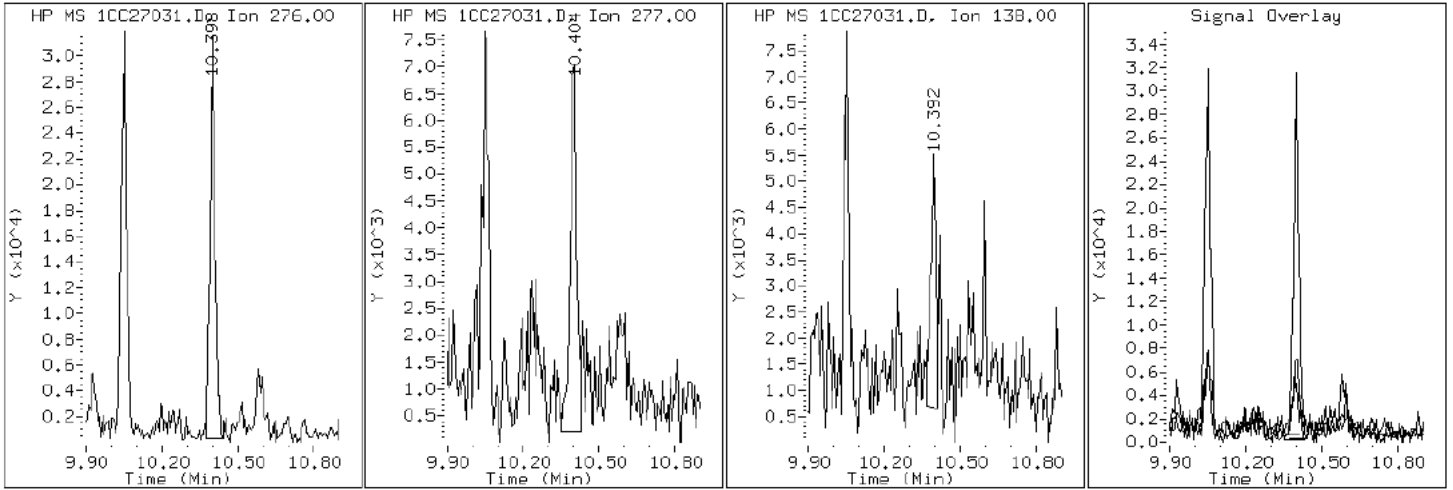
Client ID: FM0004B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-17-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC27031.D

Date: 27-MAR-2013 19:21

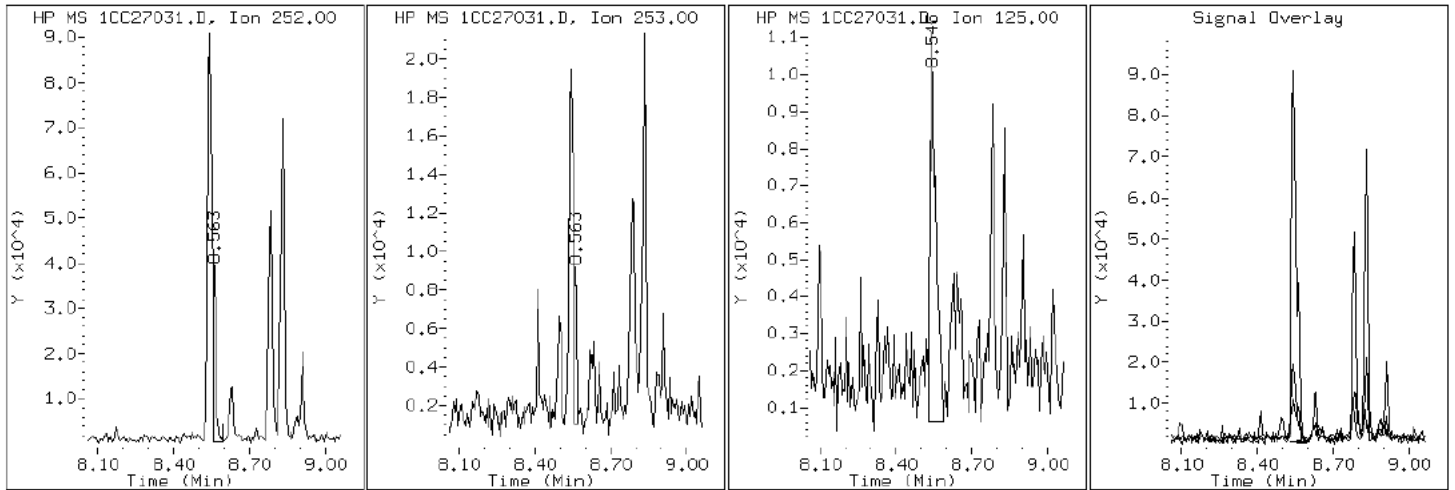
Client ID: FM0004B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-17-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC27031.D

Date: 27-MAR-2013 19:21

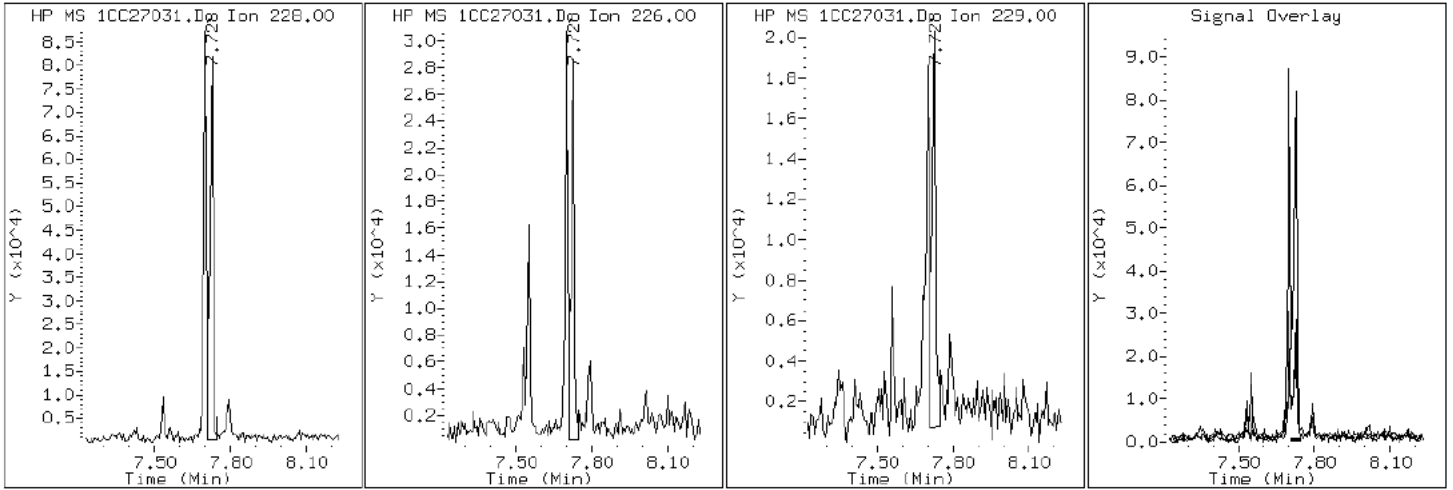
Client ID: FM0004B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-17-a

Operator: SCC

19 Chrysene



Data File: 1CC27031.D

Date: 27-MAR-2013 19:21

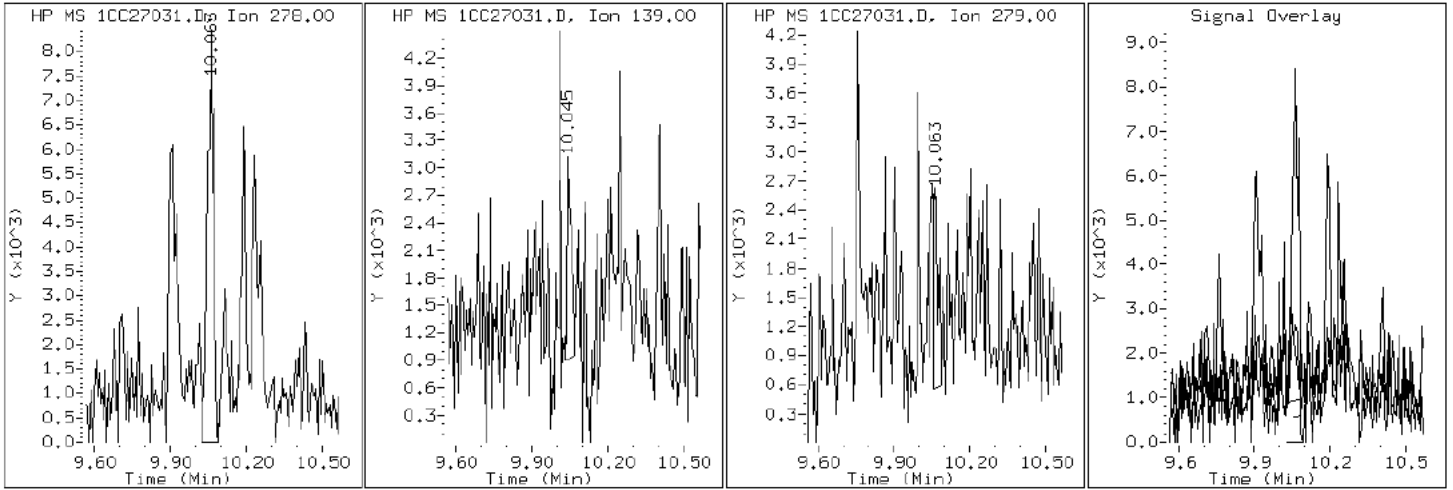
Client ID: FM0004B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-17-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC27031.D

Date: 27-MAR-2013 19:21

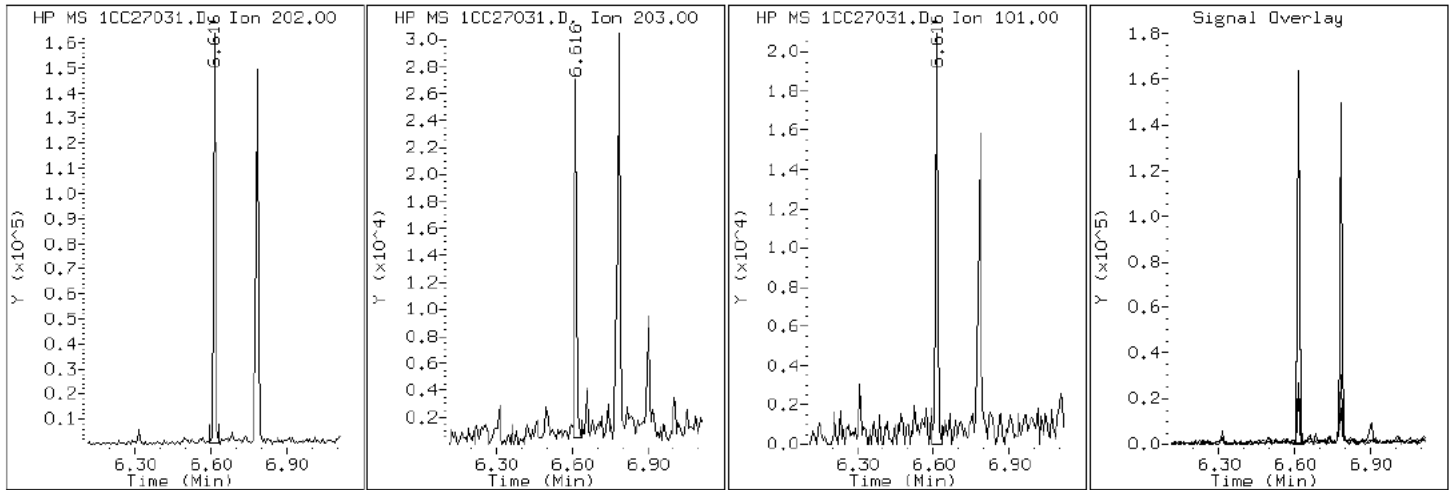
Client ID: FM0004B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-17-a

Operator: SCC

15 Fluoranthene





Data File: 1CC27031.D

Date: 27-MAR-2013 19:21

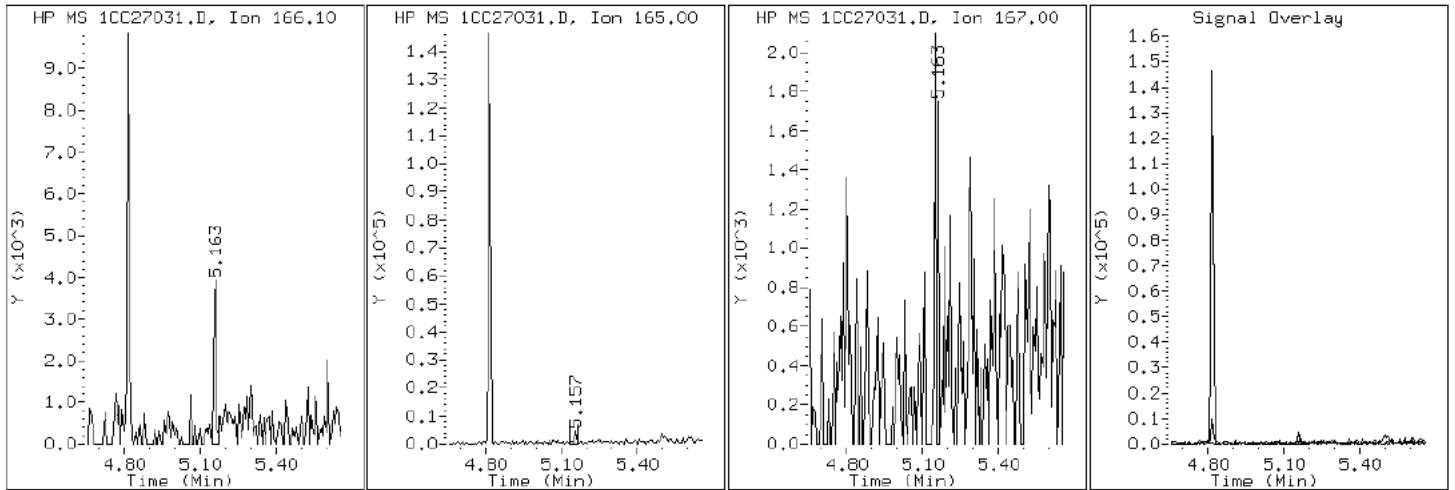
Client ID: FM0004B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-17-a

Operator: SCC

9 Fluorene



Data File: 1CC27031.D

Date: 27-MAR-2013 19:21

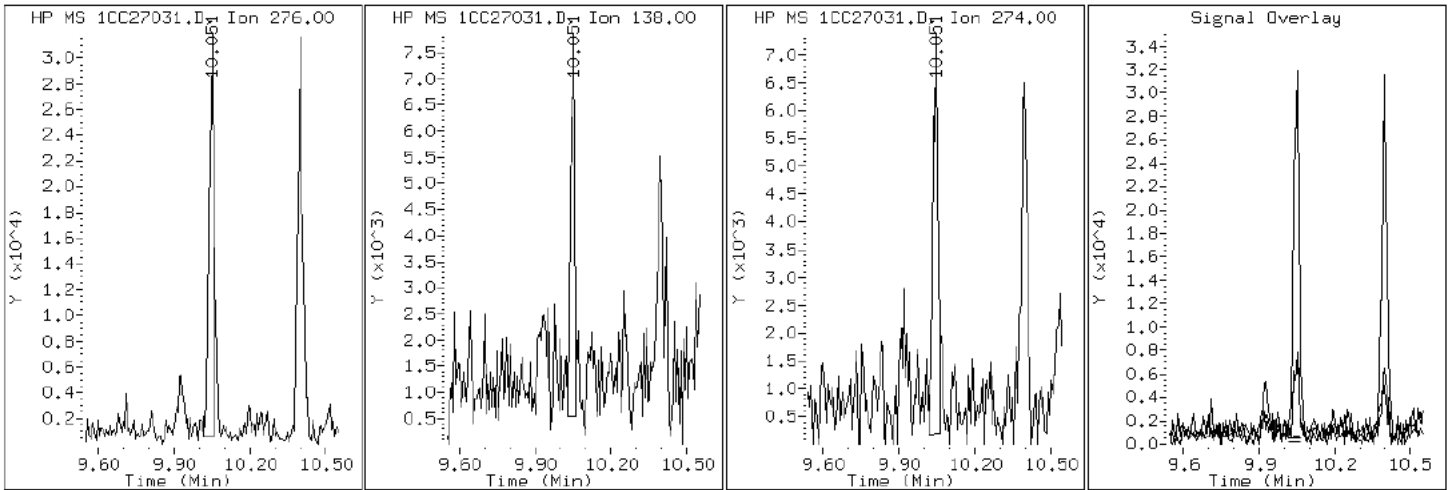
Client ID: FM0004B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-17-a

Operator: SCC

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



Data File: 1CC27031.D

Date: 27-MAR-2013 19:21

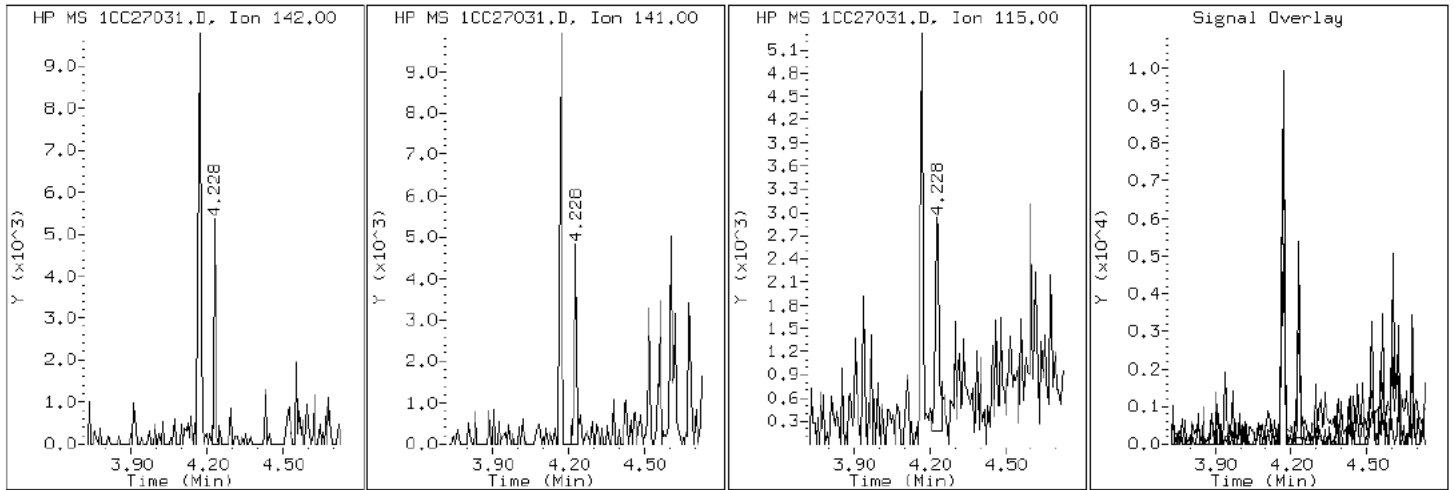
Client ID: FM0004B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-17-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC27031.D

Date: 27-MAR-2013 19:21

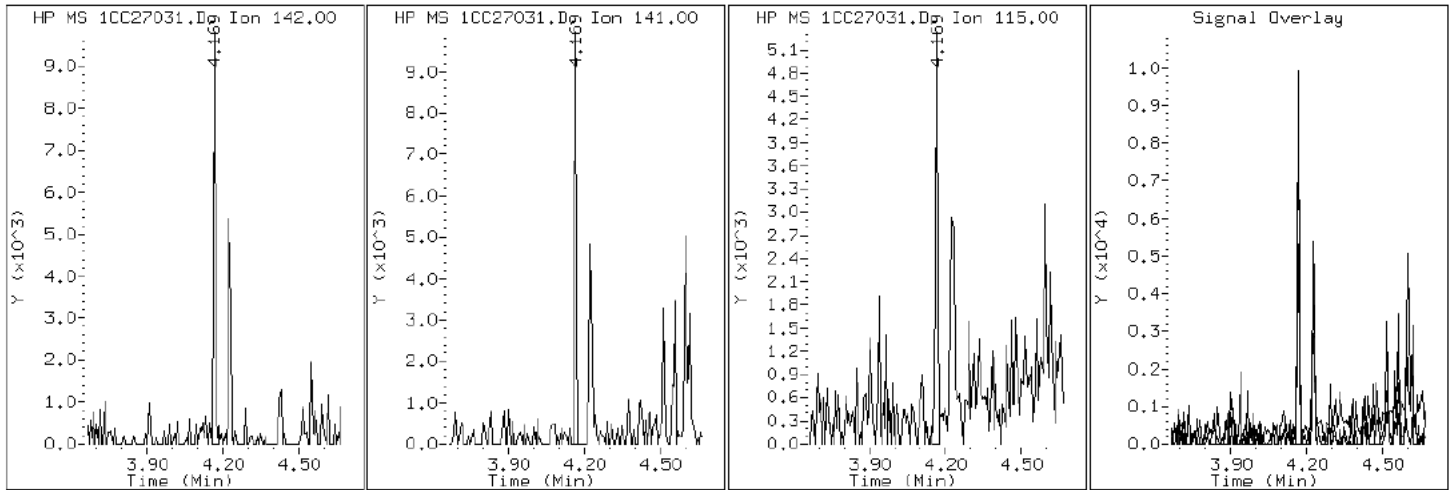
Client ID: FM0004B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-17-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC27031.D

Date: 27-MAR-2013 19:21

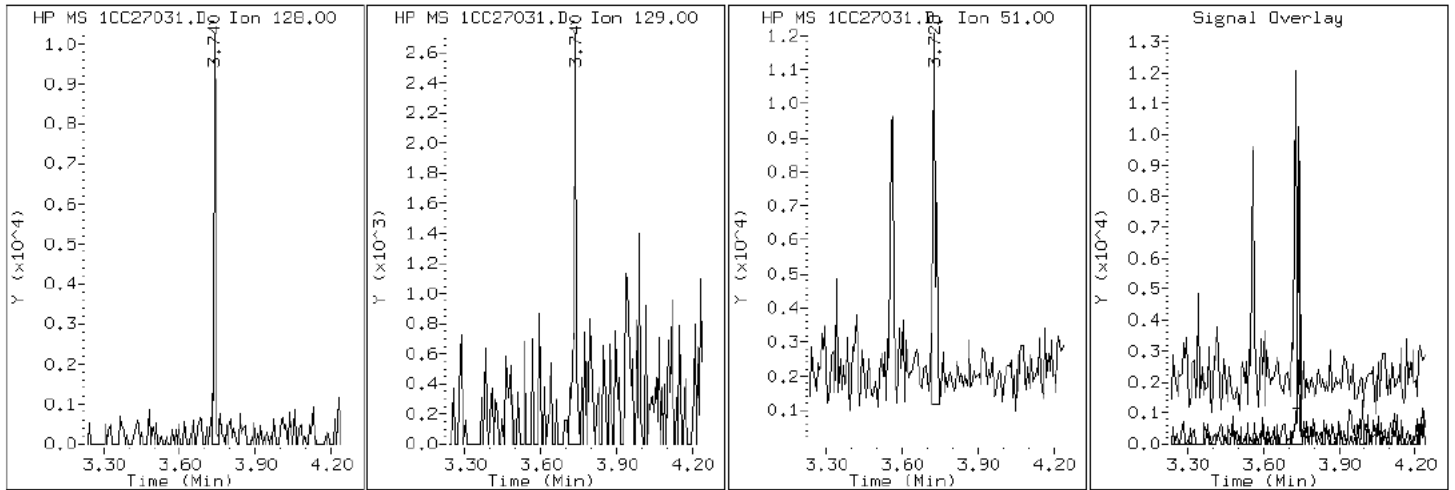
Client ID: FM0004B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-17-a

Operator: SCC

2 Naphthalene



Data File: 1CC27031.D

Date: 27-MAR-2013 19:21

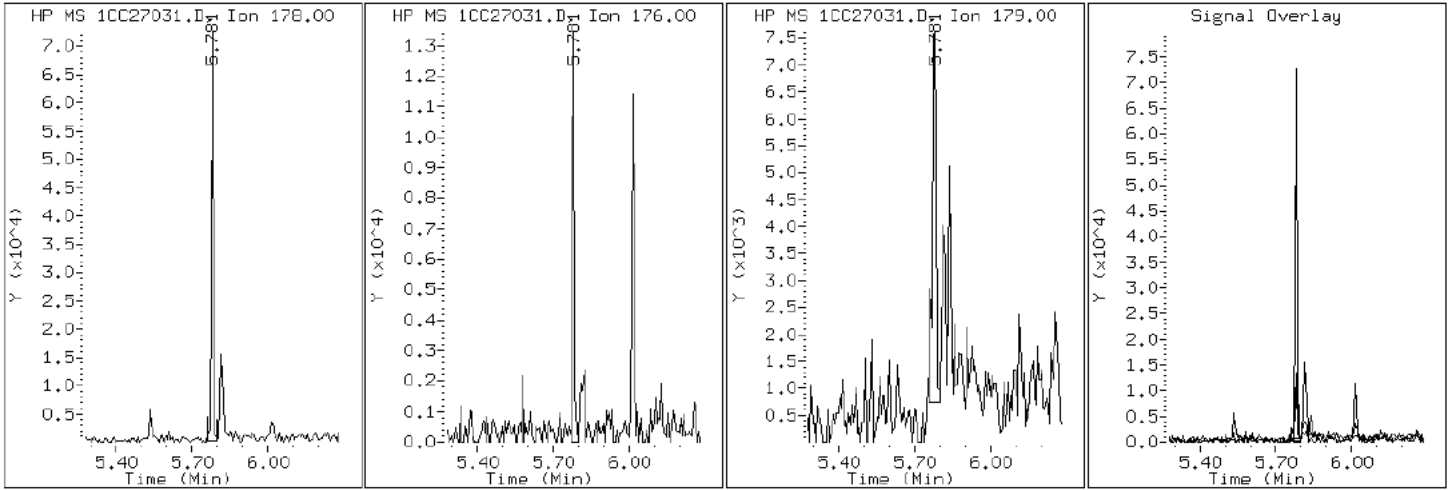
Client ID: FM0004B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-17-a

Operator: SCC

11 Phenanthrene



Data File: 1CC27031.D

Date: 27-MAR-2013 19:21

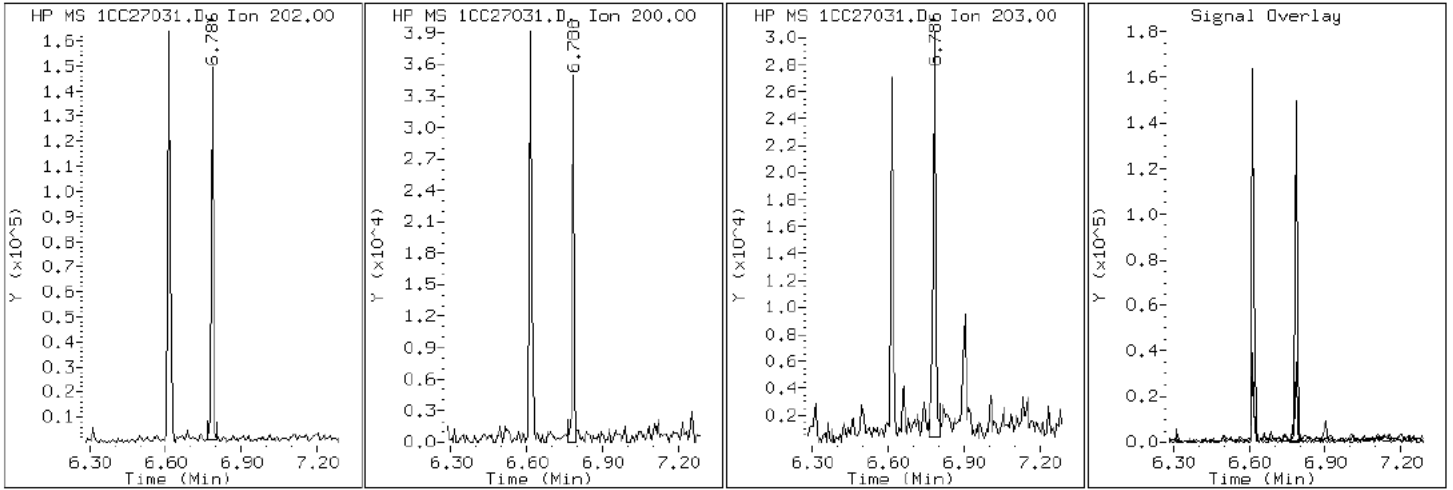
Client ID: FM0004B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-17-a

Operator: SCC

16 Pyrene

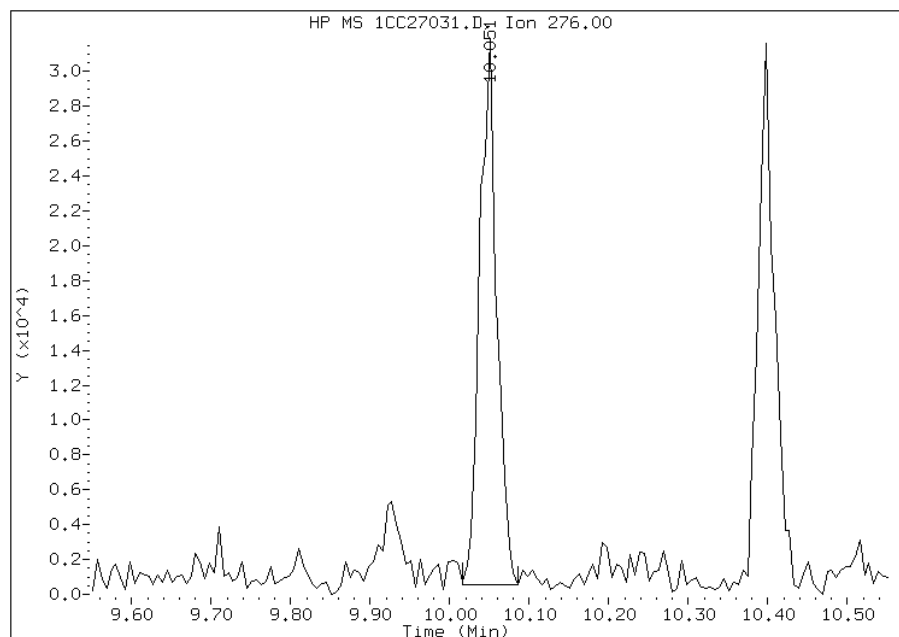


# Manual Integration Report

Data File: 1CC27031.D  
Inj. Date and Time: 27-MAR-2013 19:21  
Instrument ID: BSMC5973.i  
Client ID: FM0004B-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/28/2013

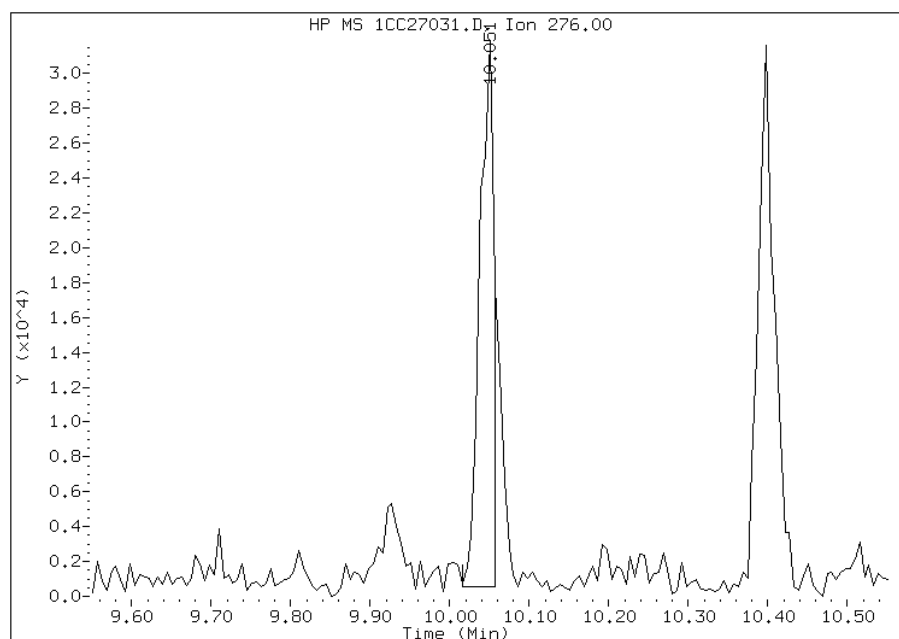
## Processing Integration Results

RT: 10.05  
Response: 46185  
Amount: 2  
Conc: 143



## Manual Integration Results

RT: 10.05  
Response: 38701  
Amount: 1  
Conc: 120



Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 12:11  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: FM0004C-CS Lab Sample ID: 680-88420-18  
 Matrix: Solid Lab File ID: 1AC26013.D  
 Analysis Method: 8270C LL Date Collected: 03/14/2013 13:10  
 Extract. Method: 3546 Date Extracted: 03/21/2013 11:14  
 Sample wt/vol: 15.49(g) Date Analyzed: 03/26/2013 15:15  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 26.9 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135850 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	6.6
120-12-7	Anthracene	23		11	5.6
56-55-3	Benzo[a]anthracene	84		11	5.2
50-32-8	Benzo[a]pyrene	66		14	6.9
205-99-2	Benzo[b]fluoranthene	210		16	8.1
191-24-2	Benzo[g,h,i]perylene	69		27	5.8
207-08-9	Benzo[k]fluoranthene	48		11	4.8
218-01-9	Chrysene	160		12	6.0
53-70-3	Dibenz(a,h)anthracene	24	J	27	5.4
206-44-0	Fluoranthene	150		27	5.3
86-73-7	Fluorene	27	U	27	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	40		27	9.4
90-12-0	1-Methylnaphthalene	62		53	5.8
91-57-6	2-Methylnaphthalene	130		53	9.4
91-20-3	Naphthalene	68		53	5.8
85-01-8	Phenanthrene	130		11	5.2
129-00-0	Pyrene	140		27	4.9

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26013.D  
 Lab Smp Id: 680-88420-A-18-A Client Smp ID: FM0004C-CS  
 Inj Date : 26-MAR-2013 15:15  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-88420-a-18-a  
 Misc Info : 680-88420-A-18-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\a-bFASTPAHi-m.m  
 Meth Date : 26-Mar-2013 11:39 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D  
 Als bottle: 13  
 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	15.490	Weight Extracted
M	26.931	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.271	2.272	(1.000)	450924	40.0000		
* 6 Acenaphthene-d10	164		3.291	3.287	(1.000)	322104	40.0000		
* 10 Phenanthrene-d10	188		4.216	4.205	(1.000)	509223	40.0000		
\$ 14 o-Terphenyl	230		4.488	4.478	(1.065)	37668	5.69702	503.3424	
* 18 Chrysene-d12	240		6.203	6.193	(1.000)	411116	40.0000		
* 23 Perylene-d12	264		7.303	7.272	(1.000)	451690	40.0000		
2 Naphthalene	128		2.282	2.282	(1.005)	8071	0.77473	68.4486	
3 2-Methylnaphthalene	141		2.682	2.683	(1.181)	3812	1.47735	130.5268	
4 1-Methylnaphthalene	142		2.736	2.736	(1.205)	4198	0.70078	61.9150	
11 Phenanthrene	178		4.226	4.221	(1.003)	18472	1.43126	126.4545	
12 Anthracene	178		4.258	4.253	(1.010)	3227	0.25787	22.7831	
13 Carbazole	167		4.419	4.408	(1.048)	2294	0.20915	18.4785	
15 Fluoranthene	202		5.070	5.065	(1.203)	21316	1.67085	147.6224	
16 Pyrene	202		5.236	5.226	(0.844)	18541	1.57292	138.9703	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
17 Benzo(a)anthracene	228	6.197	6.177	(0.999)	9277	0.94651	83.6261(M)
19 Chrysene	228	6.213	6.209	(1.002)	19392	1.82118	160.9045(M)
20 Benzo(b)fluoranthene	252	7.020	6.994	(0.961)	13989	2.32664	205.5634(M)
21 Benzo(k)fluoranthene	252	7.025	7.015	(0.962)	6572	0.53940	47.6568(M)
22 Benzo(a)pyrene	252	7.245	7.224	(0.992)	7891	0.74442	65.7706
24 Indeno(1,2,3-cd)pyrene	276	8.014	7.972	(1.097)	4351	0.45490	40.1917(M)
25 Dibenzo(a,h)anthracene	278	8.024	7.982	(1.099)	2544	0.26837	23.7109
26 Benzo(g,h,i)perylene	276	8.201	8.148	(1.123)	7466	0.77546	68.5137

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AC26013.D

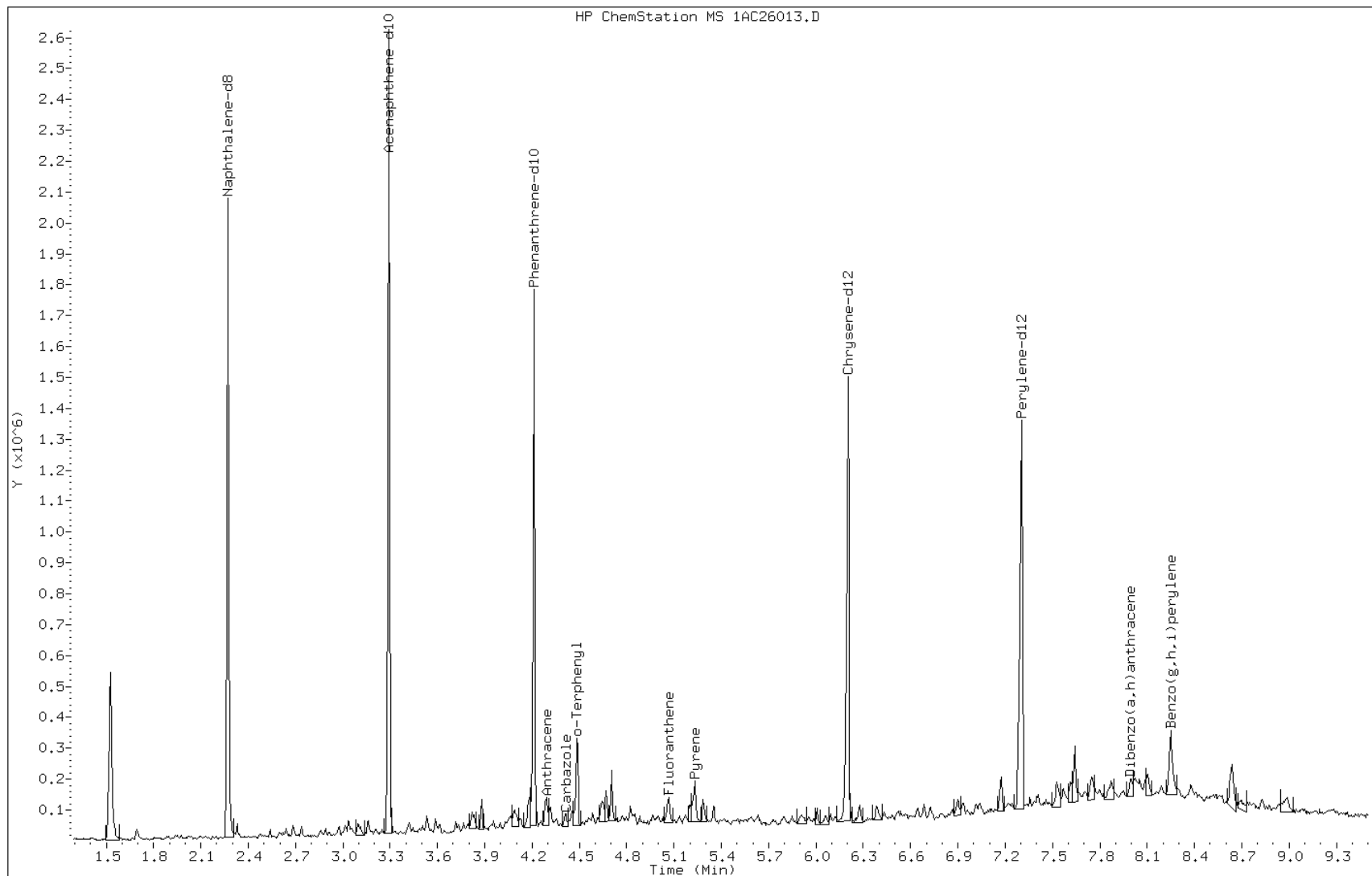
Date: 26-MAR-2013 15:15

Client ID: FM0004C-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-18-a

Operator: SCC



Data File: 1AC26013.D

Date: 26-MAR-2013 15:15

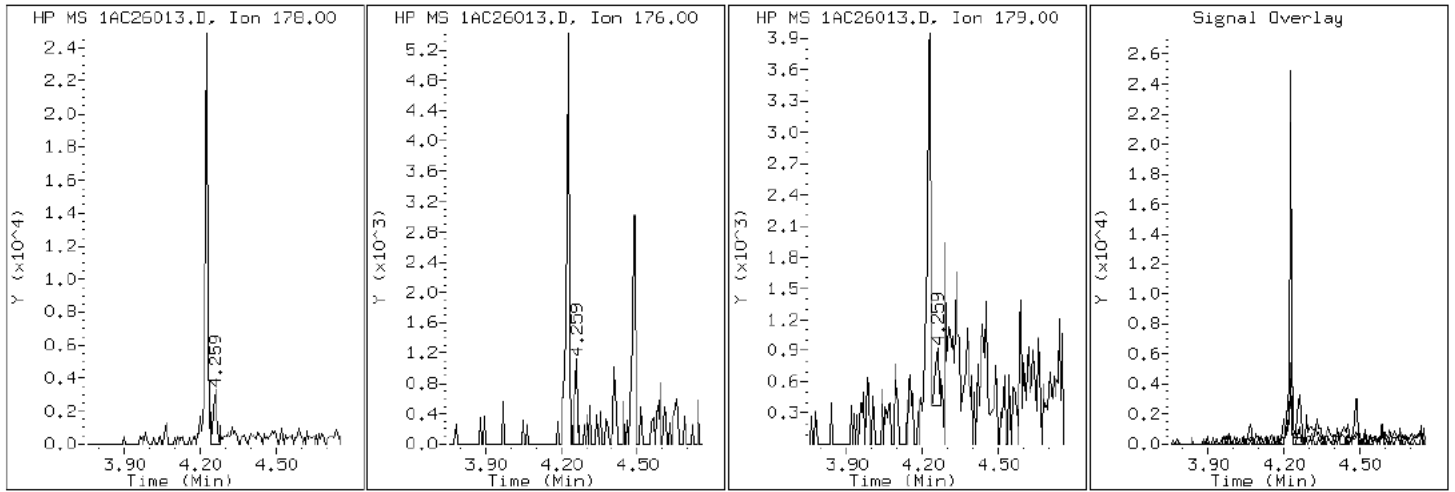
Client ID: FM0004C-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-18-a

Operator: SCC

12 Anthracene



Data File: 1AC26013.D

Date: 26-MAR-2013 15:15

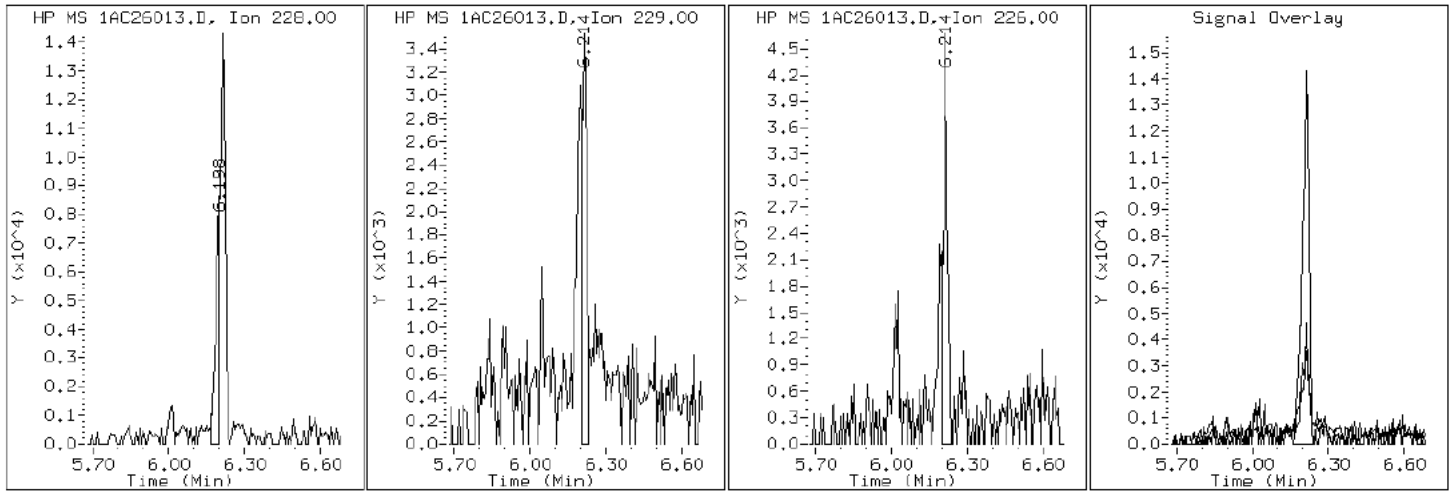
Client ID: FM0004C-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-18-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC26013.D

Date: 26-MAR-2013 15:15

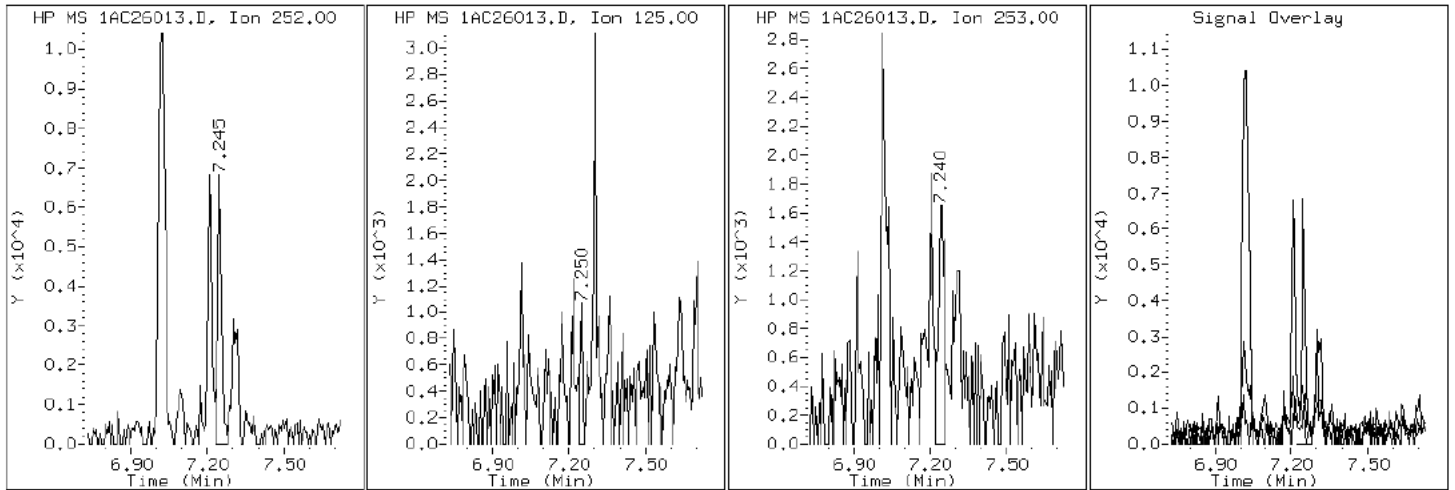
Client ID: FM0004C-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-18-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC26013.D

Date: 26-MAR-2013 15:15

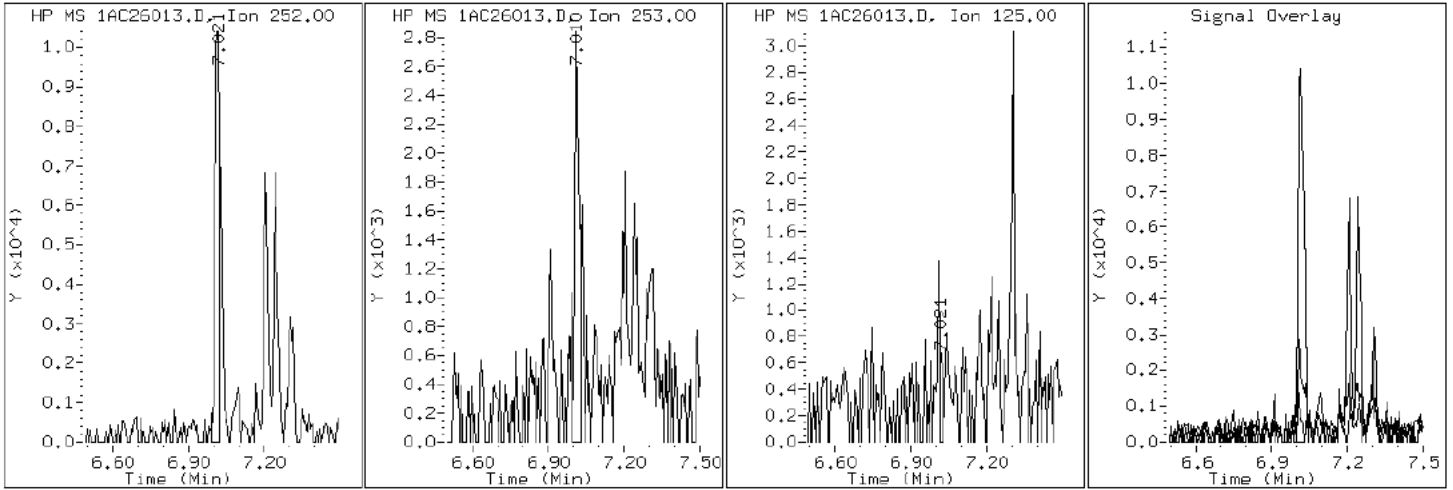
Client ID: FM0004C-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-18-a

Operator: SCC

20 Benzo (b) fluoranthene





Data File: 1AC26013.D

Date: 26-MAR-2013 15:15

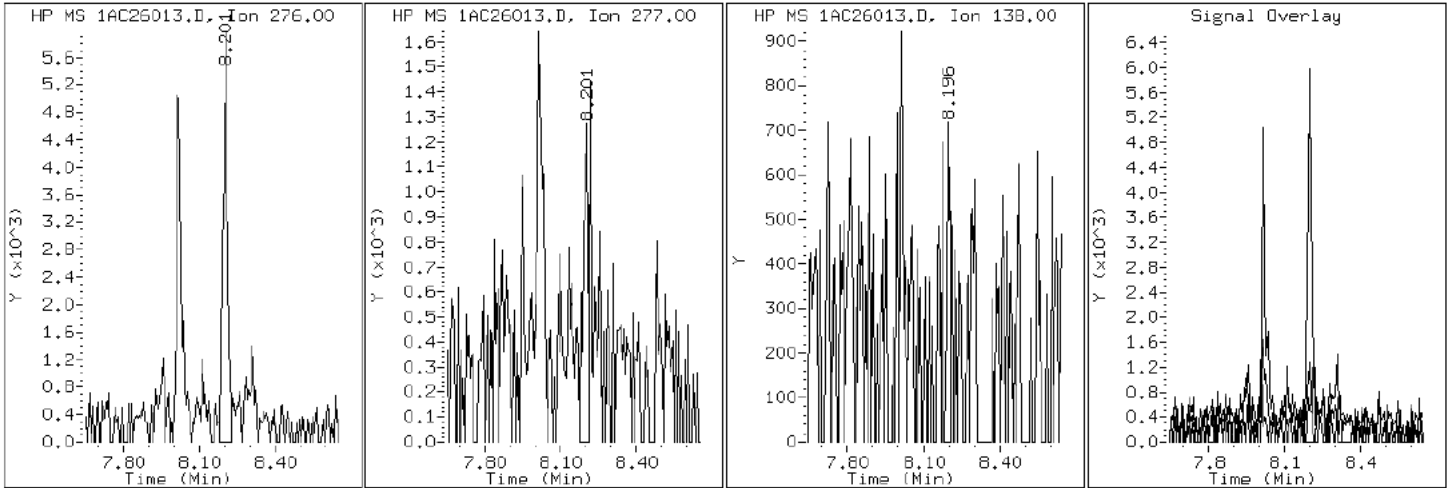
Client ID: FM0004C-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-18-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC26013.D

Date: 26-MAR-2013 15:15

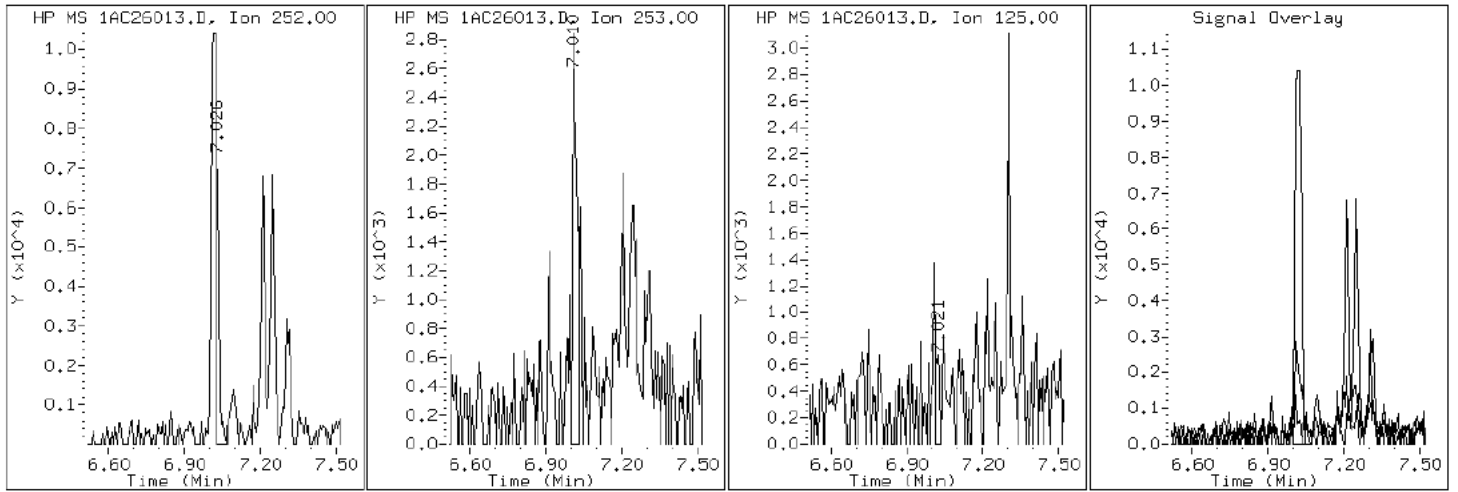
Client ID: FM0004C-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-18-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC26013.D

Date: 26-MAR-2013 15:15

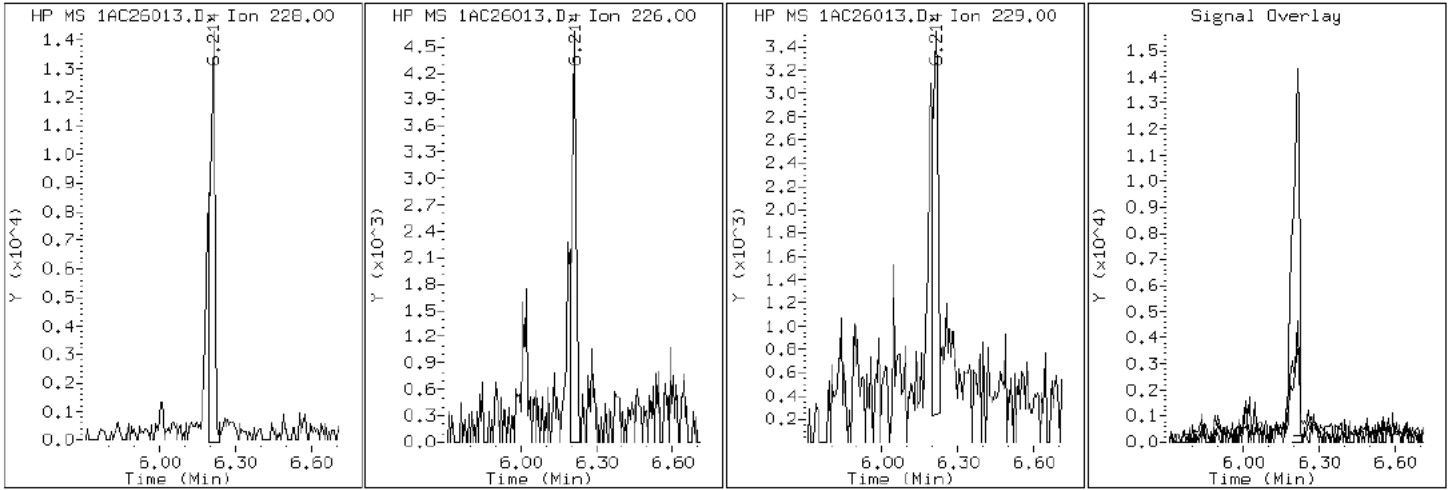
Client ID: FM0004C-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-18-a

Operator: SCC

19 Chrysene



Data File: 1AC26013.D

Date: 26-MAR-2013 15:15

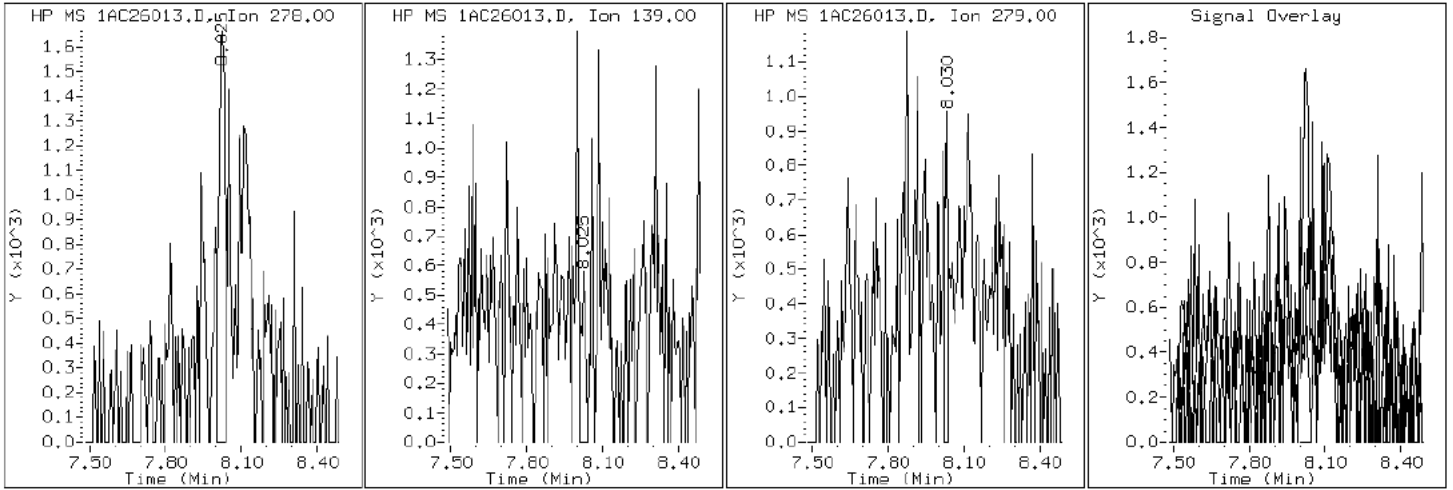
Client ID: FM0004C-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-18-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC26013.D

Date: 26-MAR-2013 15:15

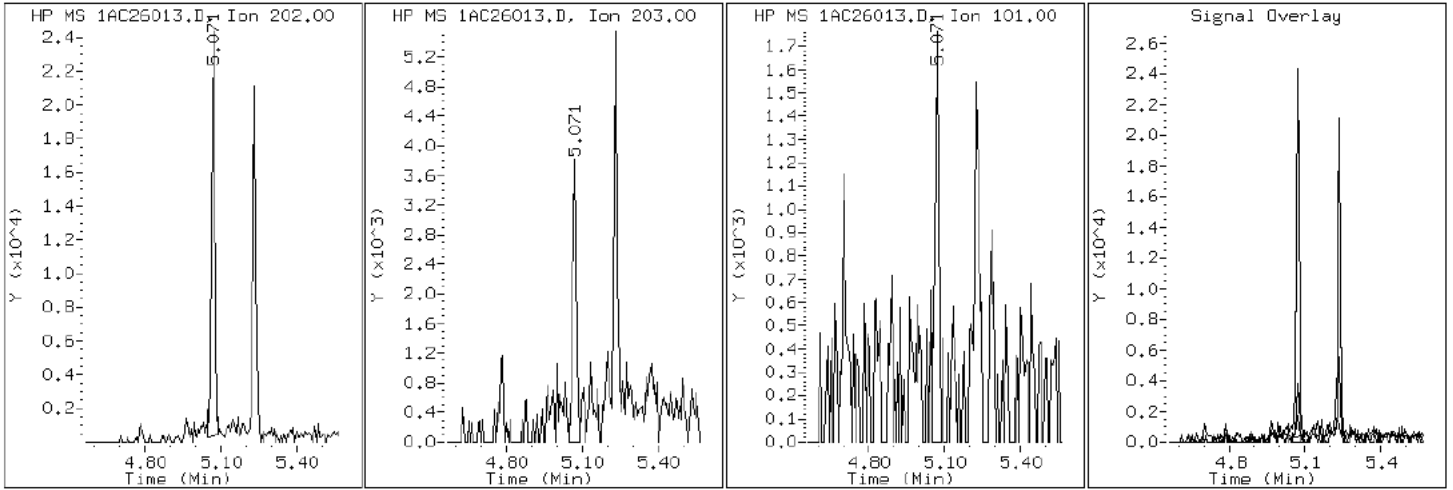
Client ID: FM0004C-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-18-a

Operator: SCC

15 Fluoranthene



Data File: 1AC26013.D

Date: 26-MAR-2013 15:15

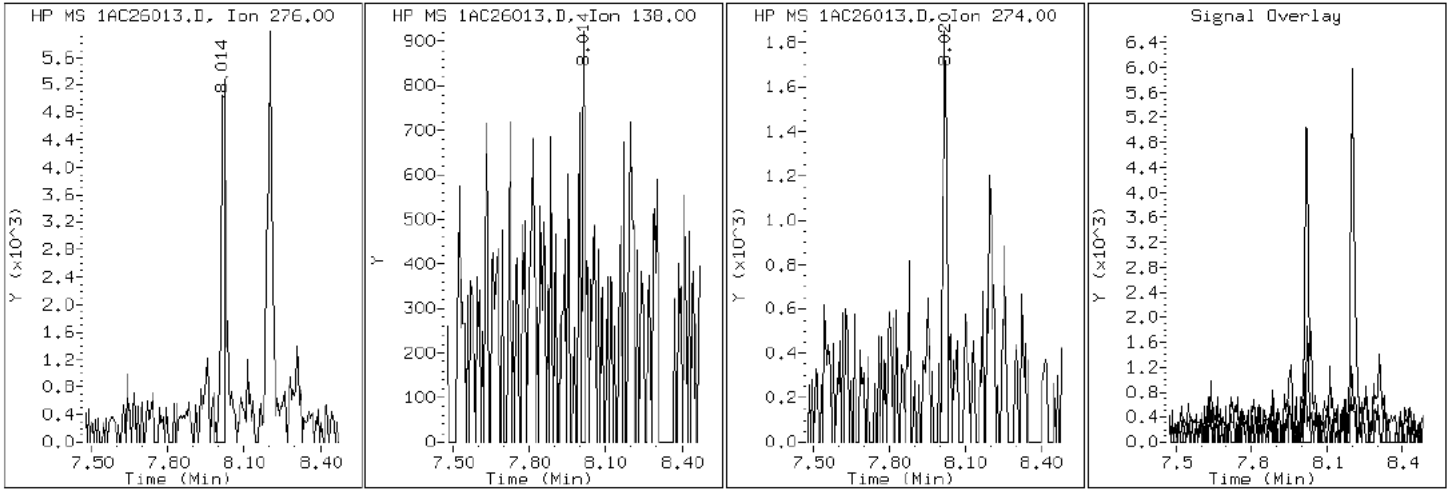
Client ID: FM0004C-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-18-a

Operator: SCC

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



Data File: 1AC26013.D

Date: 26-MAR-2013 15:15

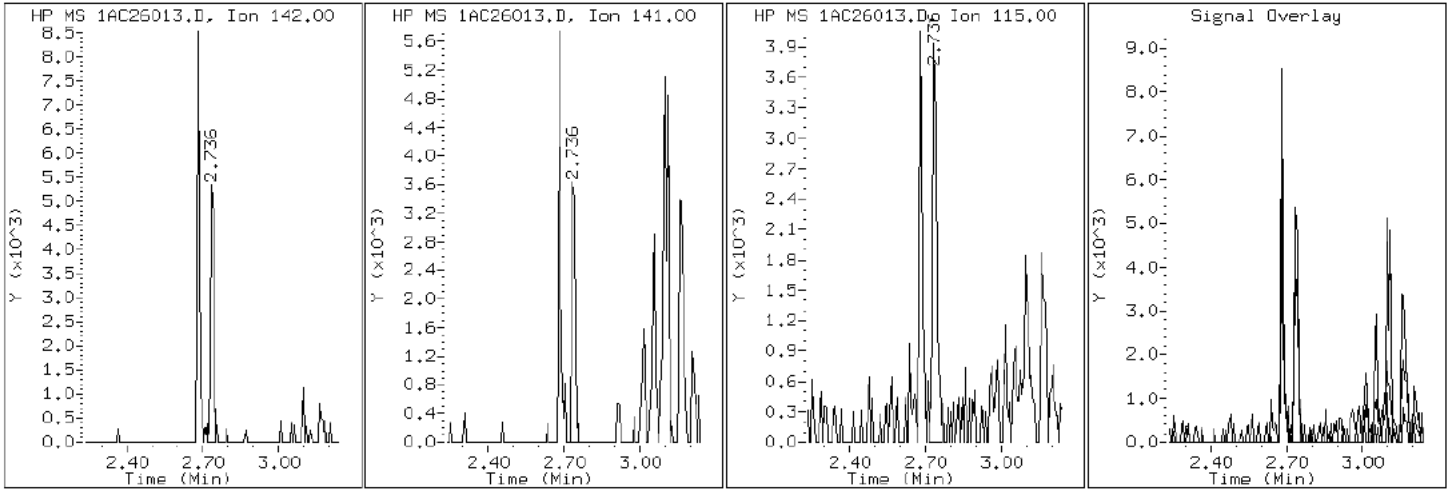
Client ID: FM0004C-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-18-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC26013.D

Date: 26-MAR-2013 15:15

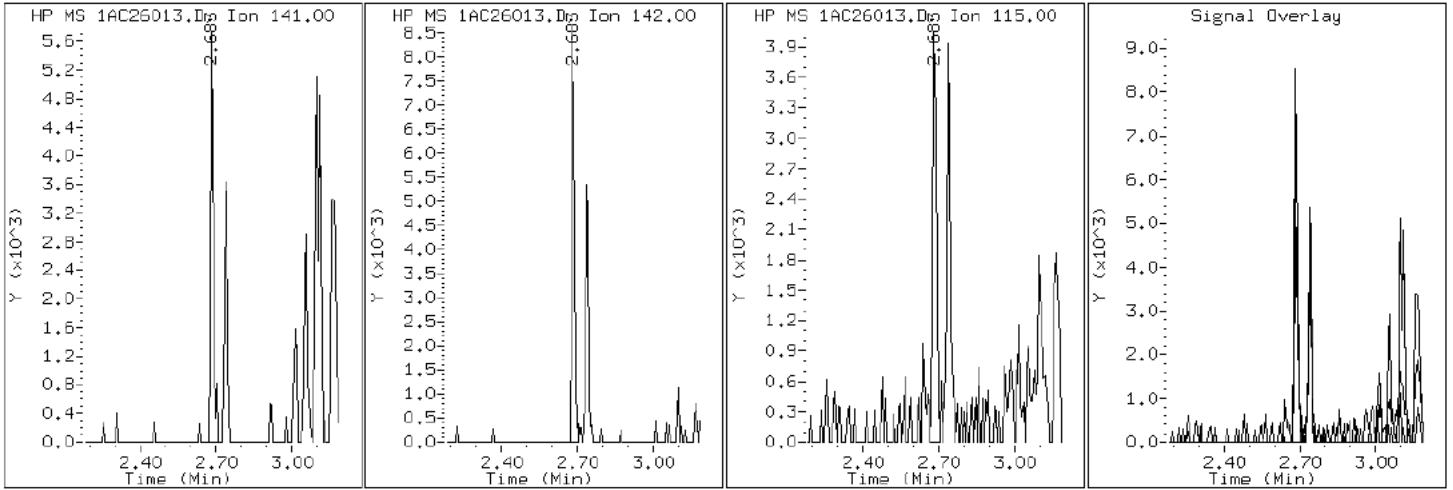
Client ID: FM0004C-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-18-a

Operator: SCC

3 2-Methylnaphthalene





Data File: 1AC26013.D

Date: 26-MAR-2013 15:15

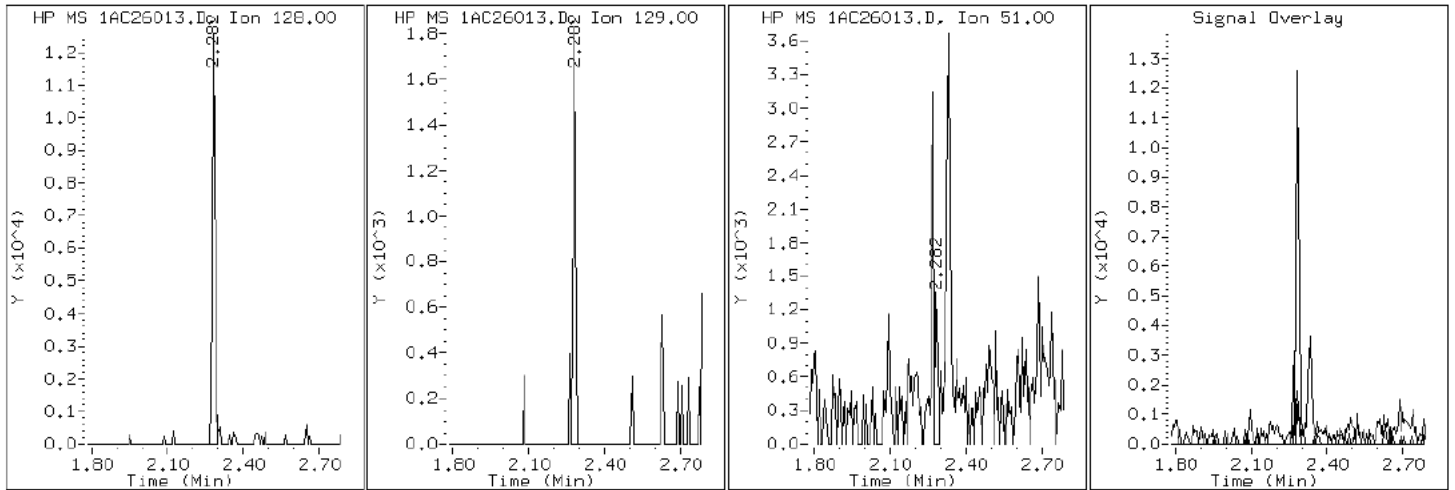
Client ID: FM0004C-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-18-a

Operator: SCC

2 Naphthalene



Data File: 1AC26013.D

Date: 26-MAR-2013 15:15

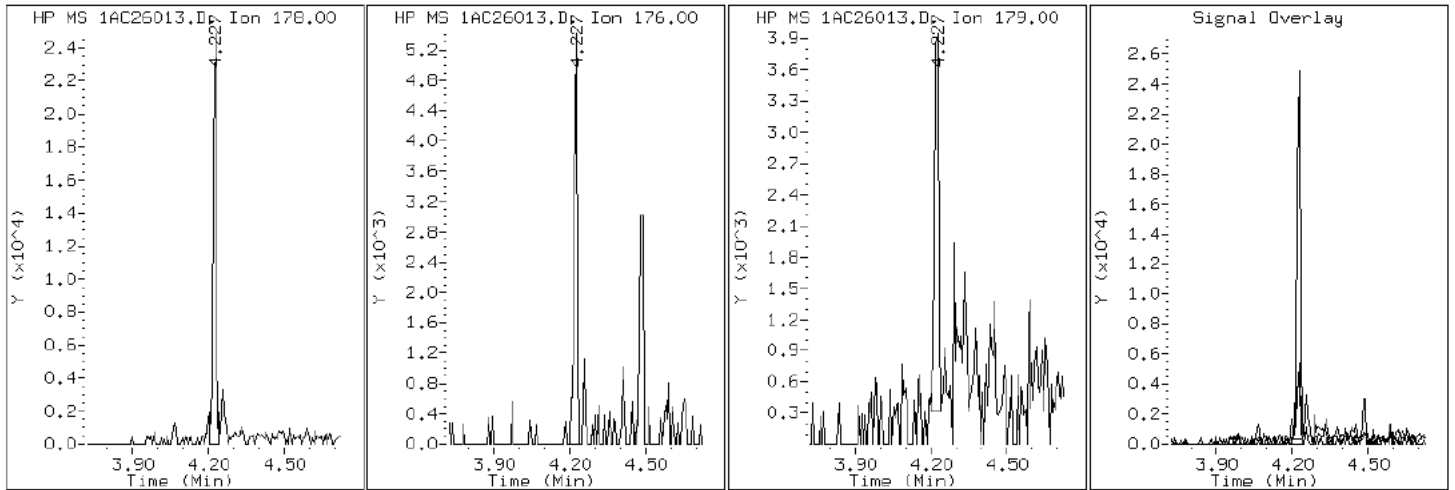
Client ID: FM0004C-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-18-a

Operator: SCC

11 Phenanthrene



Data File: 1AC26013.D

Date: 26-MAR-2013 15:15

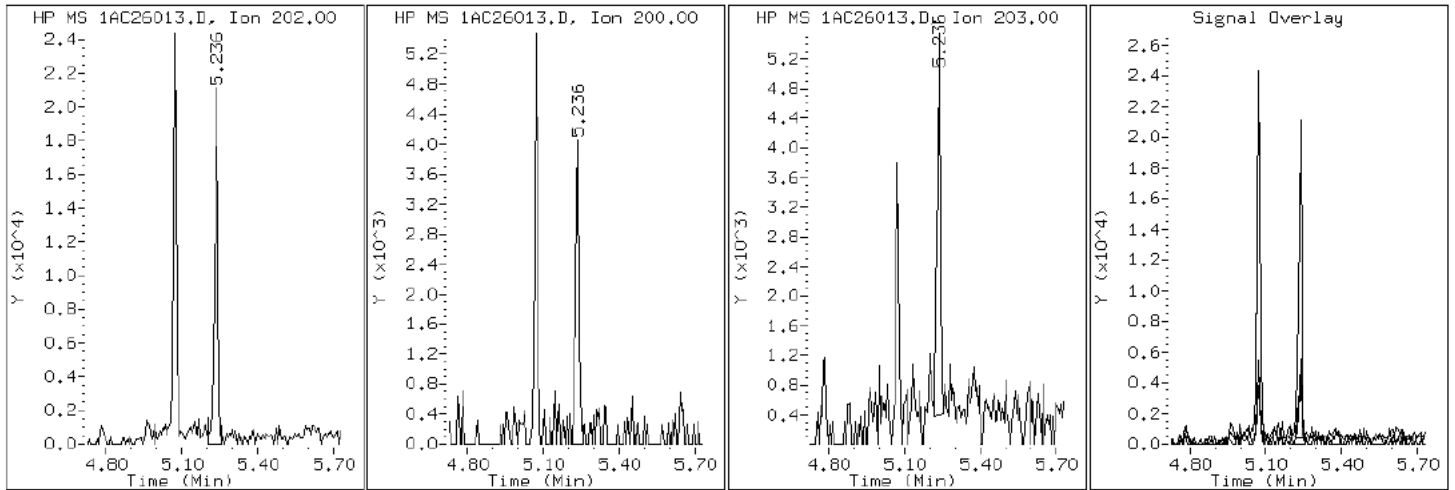
Client ID: FM0004C-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-18-a

Operator: SCC

16 Pyrene

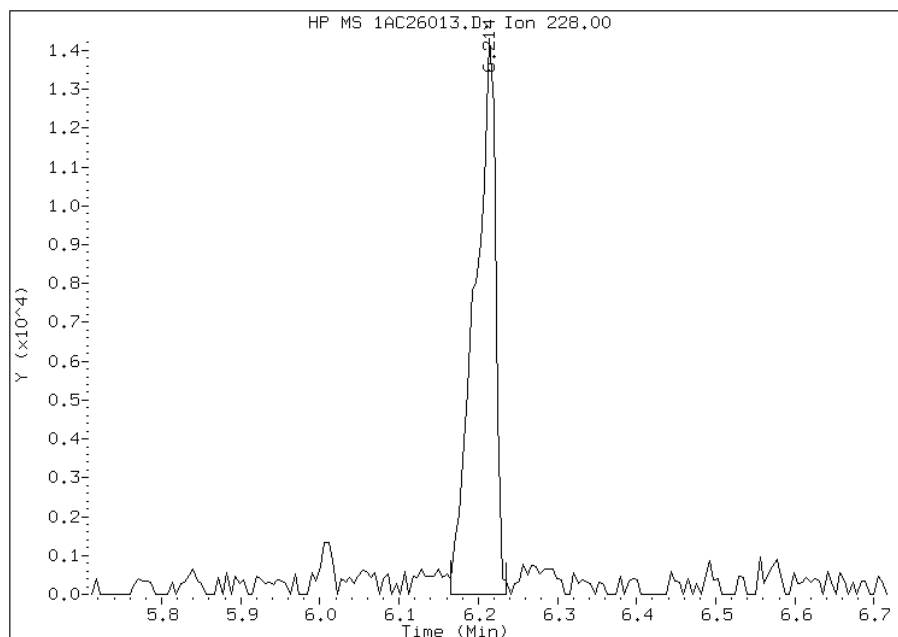


# Manual Integration Report

Data File: 1AC26013.D  
Inj. Date and Time: 26-MAR-2013 15:15  
Instrument ID: BSMA5973.i  
Client ID: FM0004C-CS  
Compound: 17 Benzo(a)anthracene  
CAS #: 56-55-3  
Report Date: 03/28/2013

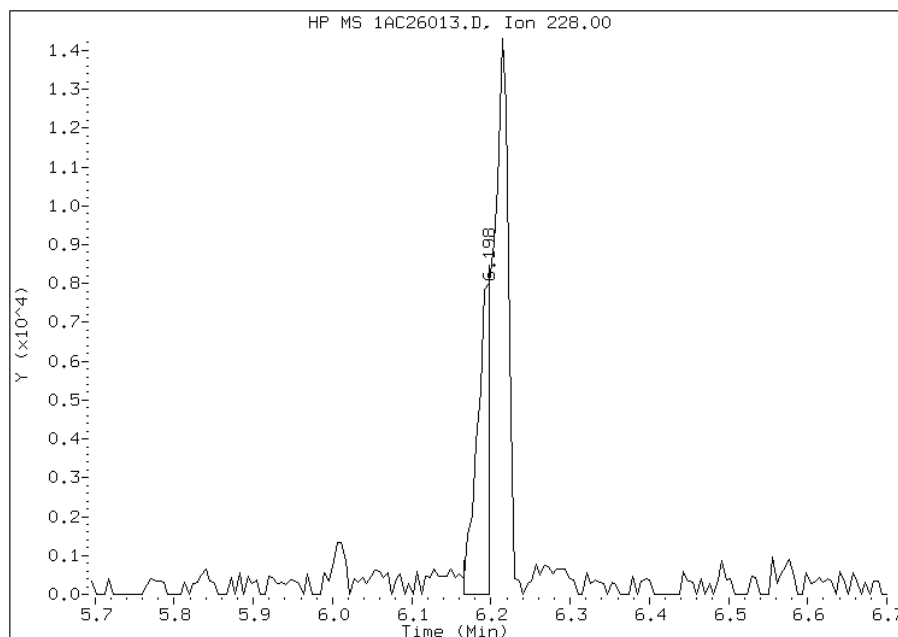
## Processing Integration Results

RT: 6.21  
Response: 25891  
Amount: 2  
Conc: 207



## Manual Integration Results

RT: 6.20  
Response: 9277  
Amount: 1  
Conc: 84



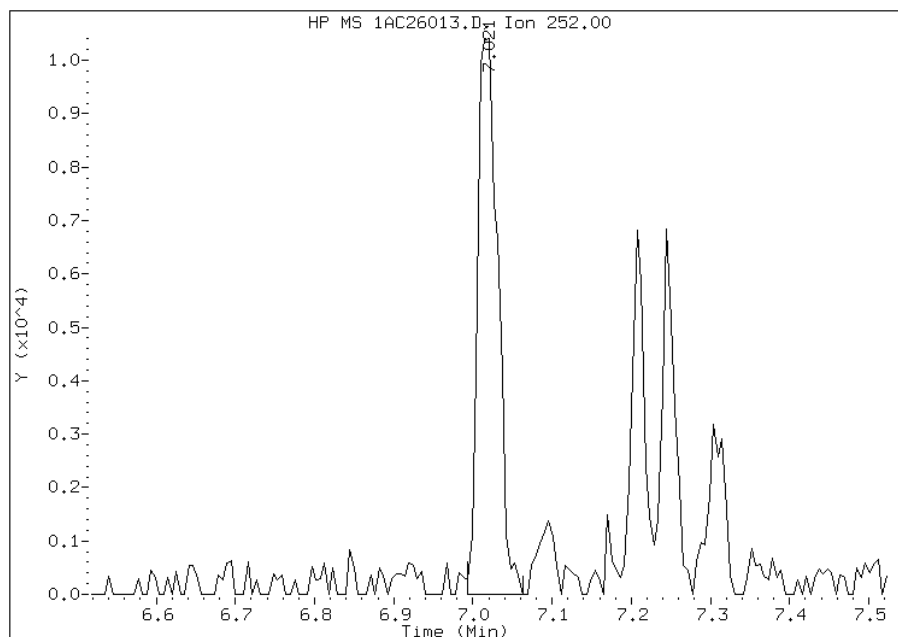
Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 11:10  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AC26013.D  
Inj. Date and Time: 26-MAR-2013 15:15  
Instrument ID: BSMA5973.i  
Client ID: FM0004C-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 03/28/2013

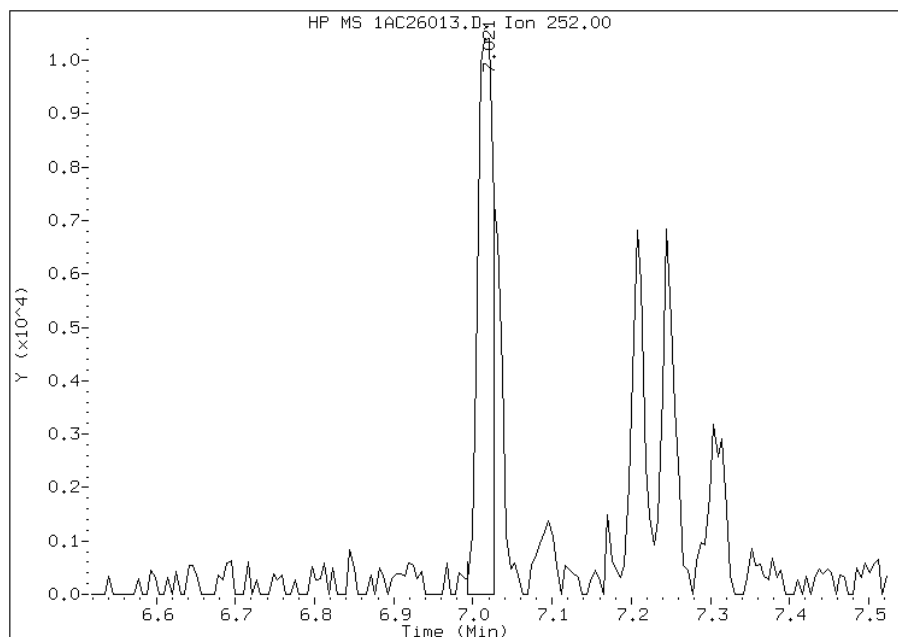
## Processing Integration Results

RT: 7.02  
Response: 18243  
Amount: 3  
Conc: 236



## Manual Integration Results

RT: 7.02  
Response: 13989  
Amount: 2  
Conc: 206



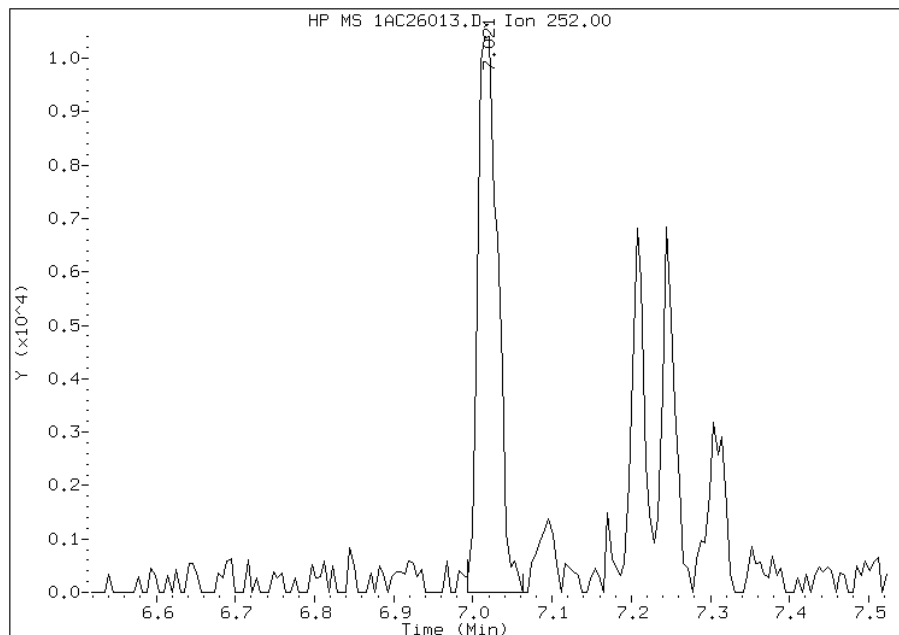
Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 11:11  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AC26013.D  
Inj. Date and Time: 26-MAR-2013 15:15  
Instrument ID: BSMA5973.i  
Client ID: FM0004C-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 03/28/2013

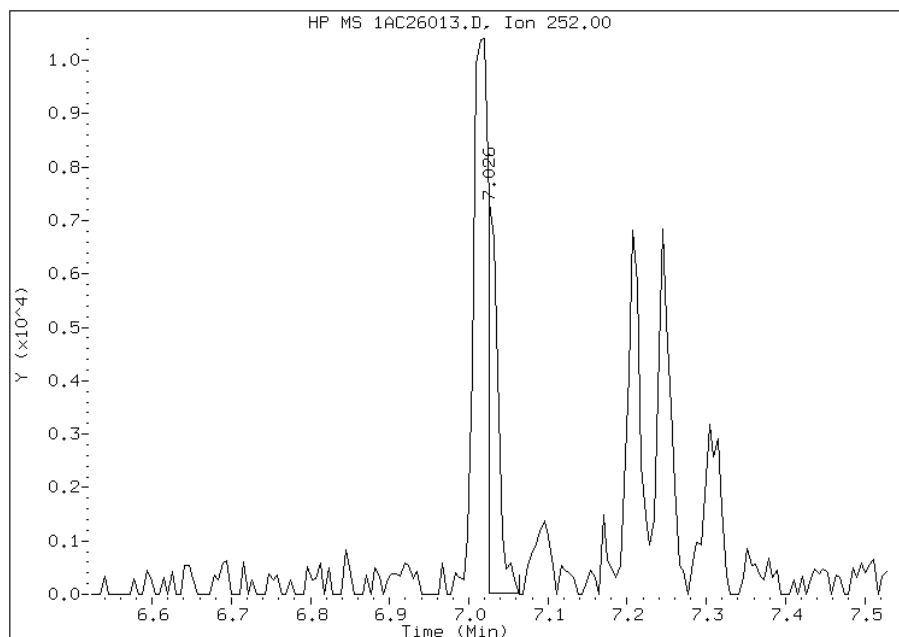
## Processing Integration Results

RT: 7.02  
Response: 18243  
Amount: 1  
Conc: 132



## Manual Integration Results

RT: 7.03  
Response: 6572  
Amount: 1  
Conc: 48



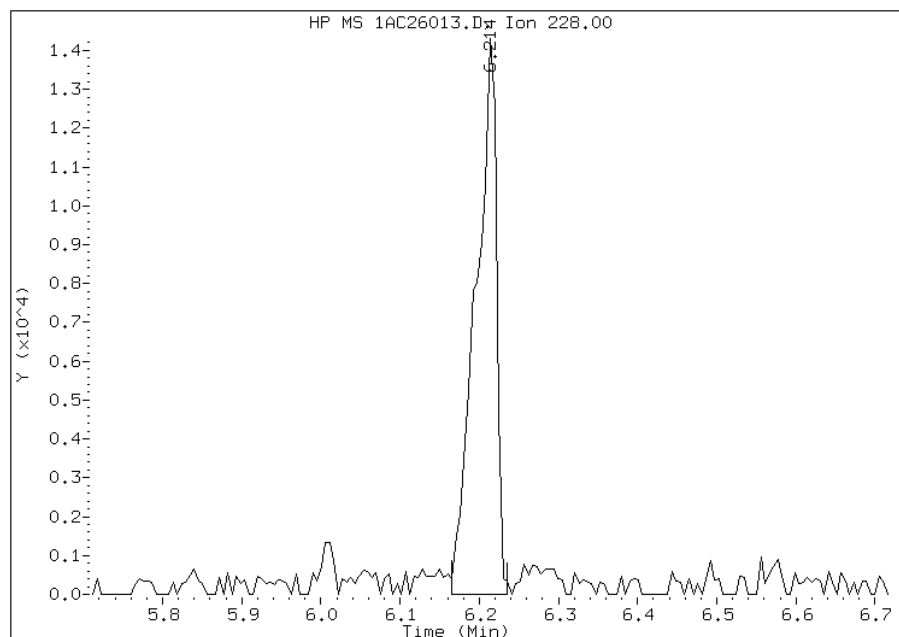
Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 11:11  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AC26013.D  
Inj. Date and Time: 26-MAR-2013 15:15  
Instrument ID: BSMA5973.i  
Client ID: FM0004C-CS  
Compound: 19 Chrysene  
CAS #: 218-01-9  
Report Date: 03/28/2013

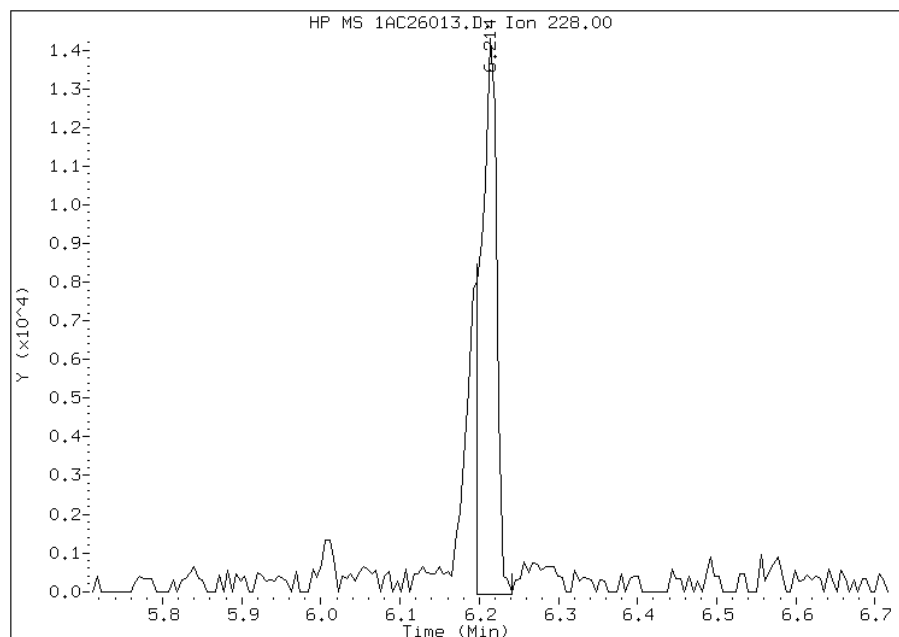
## Processing Integration Results

RT: 6.21  
Response: 25891  
Amount: 2  
Conc: 215



## Manual Integration Results

RT: 6.21  
Response: 19392  
Amount: 2  
Conc: 161



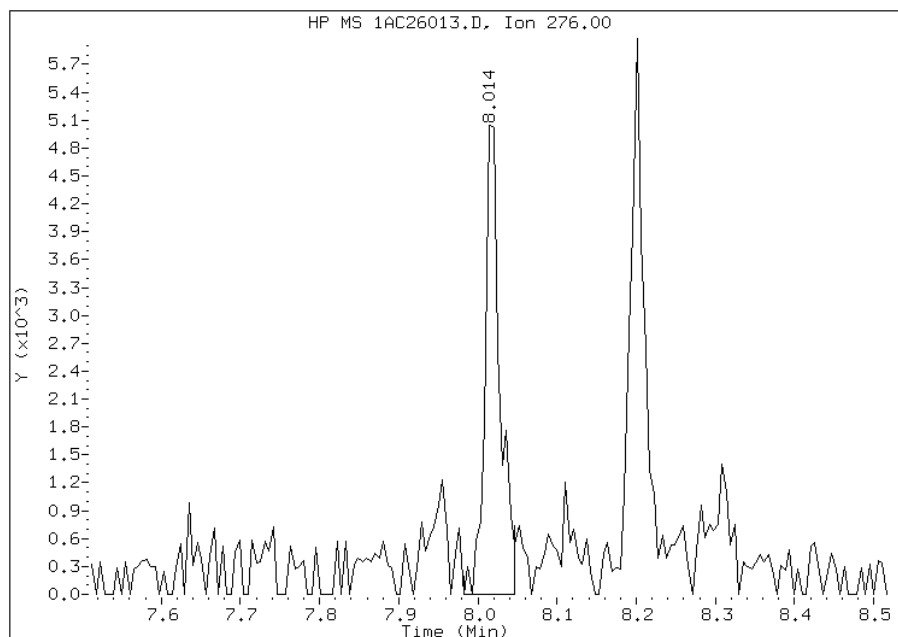
Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 11:10  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AC26013.D  
Inj. Date and Time: 26-MAR-2013 15:15  
Instrument ID: BSMA5973.i  
Client ID: FM0004C-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/28/2013

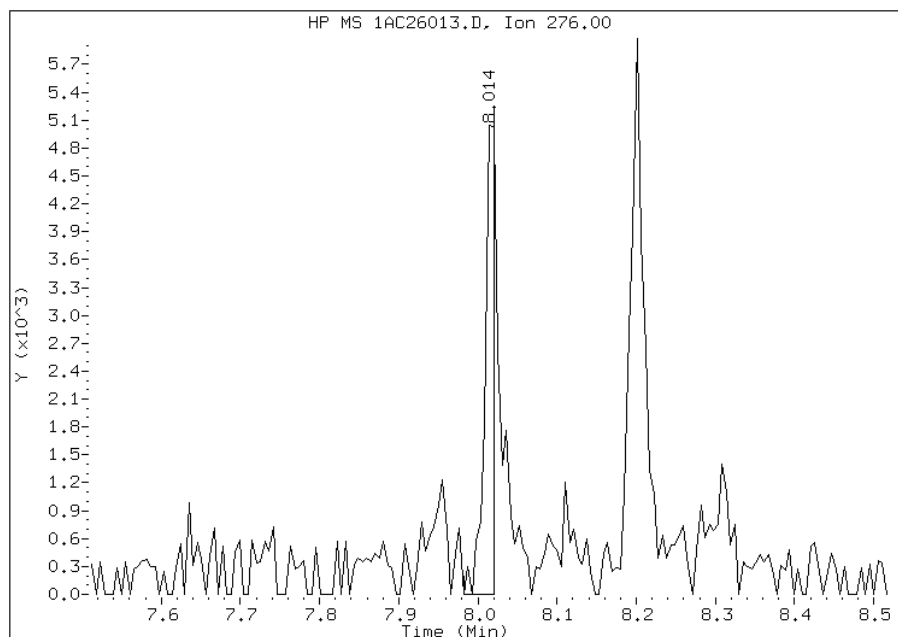
## Processing Integration Results

RT: 8.01  
Response: 6656  
Amount: 1  
Conc: 61



## Manual Integration Results

RT: 8.01  
Response: 4351  
Amount: 0  
Conc: 40



Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 11:12  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: CV1035A-CS Lab Sample ID: 680-88420-19  
 Matrix: Solid Lab File ID: 1AC26014.D  
 Analysis Method: 8270C LL Date Collected: 03/14/2013 14:05  
 Extract. Method: 3546 Date Extracted: 03/21/2013 11:14  
 Sample wt/vol: 14.97(g) Date Analyzed: 03/26/2013 15:30  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 12.1 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135850 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	52	J	110	23
208-96-8	Acenaphthylene	110		46	5.7
120-12-7	Anthracene	140		9.6	4.8
56-55-3	Benzo[a]anthracene	620		9.1	4.4
50-32-8	Benzo[a]pyrene	510		12	5.9
205-99-2	Benzo[b]fluoranthene	790		14	7.0
191-24-2	Benzo[g,h,i]perylene	490		23	5.0
207-08-9	Benzo[k]fluoranthene	390		9.1	4.1
218-01-9	Chrysene	620		10	5.1
53-70-3	Dibenz(a,h)anthracene	150		23	4.7
206-44-0	Fluoranthene	1200		23	4.6
86-73-7	Fluorene	68		23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	460		23	8.1
90-12-0	1-Methylnaphthalene	66		46	5.0
91-57-6	2-Methylnaphthalene	140		46	8.1
91-20-3	Naphthalene	110		46	5.0
85-01-8	Phenanthrene	700		9.1	4.4
129-00-0	Pyrene	1200		23	4.2

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26014.D  
 Lab Smp Id: 680-88420-A-19-A Client Smp ID: CV1035A-CS  
 Inj Date : 26-MAR-2013 15:30  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-88420-a-19-a  
 Misc Info : 680-88420-A-19-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\a-bFASTPAHi-m.m  
 Meth Date : 26-Mar-2013 11:39 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D  
 Als bottle: 14  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	12.069	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.276	2.272	(1.000)	454863	40.0000		
* 6 Acenaphthene-d10	164		3.291	3.287	(1.000)	334012	40.0000		
* 10 Phenanthrene-d10	188		4.210	4.205	(1.000)	536858	40.0000		
\$ 14 o-Terphenyl	230		4.482	4.478	(1.065)	40079	5.74768	436.6454	
* 18 Chrysene-d12	240		6.202	6.193	(1.000)	419691	40.0000		
* 23 Perylene-d12	264		7.297	7.272	(1.000)	479077	40.0000		
2 Naphthalene	128		2.281	2.282	(1.002)	15892	1.51225	114.8837	
3 2-Methylnaphthalene	141		2.687	2.683	(1.181)	6108	1.82832	138.8957	
4 1-Methylnaphthalene	142		2.740	2.736	(1.204)	5221	0.86400	65.6372	
5 Acenaphthylene	152		3.205	3.201	(0.974)	15925	1.50594	114.4046	
7 Acenaphthene	154		3.307	3.308	(1.005)	1878	0.69002	52.4203(Q)	
9 Fluorene	166		3.617	3.612	(1.099)	5601	0.89048	67.6488	
11 Phenanthrene	178		4.226	4.221	(1.004)	126193	9.27445	704.5702	
12 Anthracene	178		4.258	4.253	(1.011)	23789	1.80311	136.9806	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.418	4.408	(1.049)	13230	1.14411	86.9164
15 Fluoranthene	202	5.075	5.065	(1.206)	213954	15.9074	1208.4695
16 Pyrene	202	5.235	5.226	(0.844)	182678	15.1808	1153.2672
17 Benzo(a)anthracene	228	6.197	6.177	(0.999)	96711	8.11478	616.4714
19 Chrysene	228	6.218	6.209	(1.003)	88077	8.10265	615.5493
20 Benzo(b)fluoranthene	252	7.019	6.994	(0.962)	120591	10.3377	785.3447(M)
21 Benzo(k)fluoranthene	252	7.025	7.015	(0.963)	66911	5.17779	393.3514(M)
22 Benzo(a)pyrene	252	7.244	7.224	(0.993)	75130	6.68241	507.6552
24 Indeno(1,2,3-cd)pyrene	276	7.997	7.972	(1.096)	61863	6.09814	463.2695(M)
25 Dibenzo(a,h)anthracene	278	8.002	7.982	(1.097)	20425	2.03149	154.3298
26 Benzo(g,h,i)perylene	276	8.184	8.148	(1.122)	65760	6.43978	489.2230

QC Flag Legend

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

Data File: 1AC26014.D

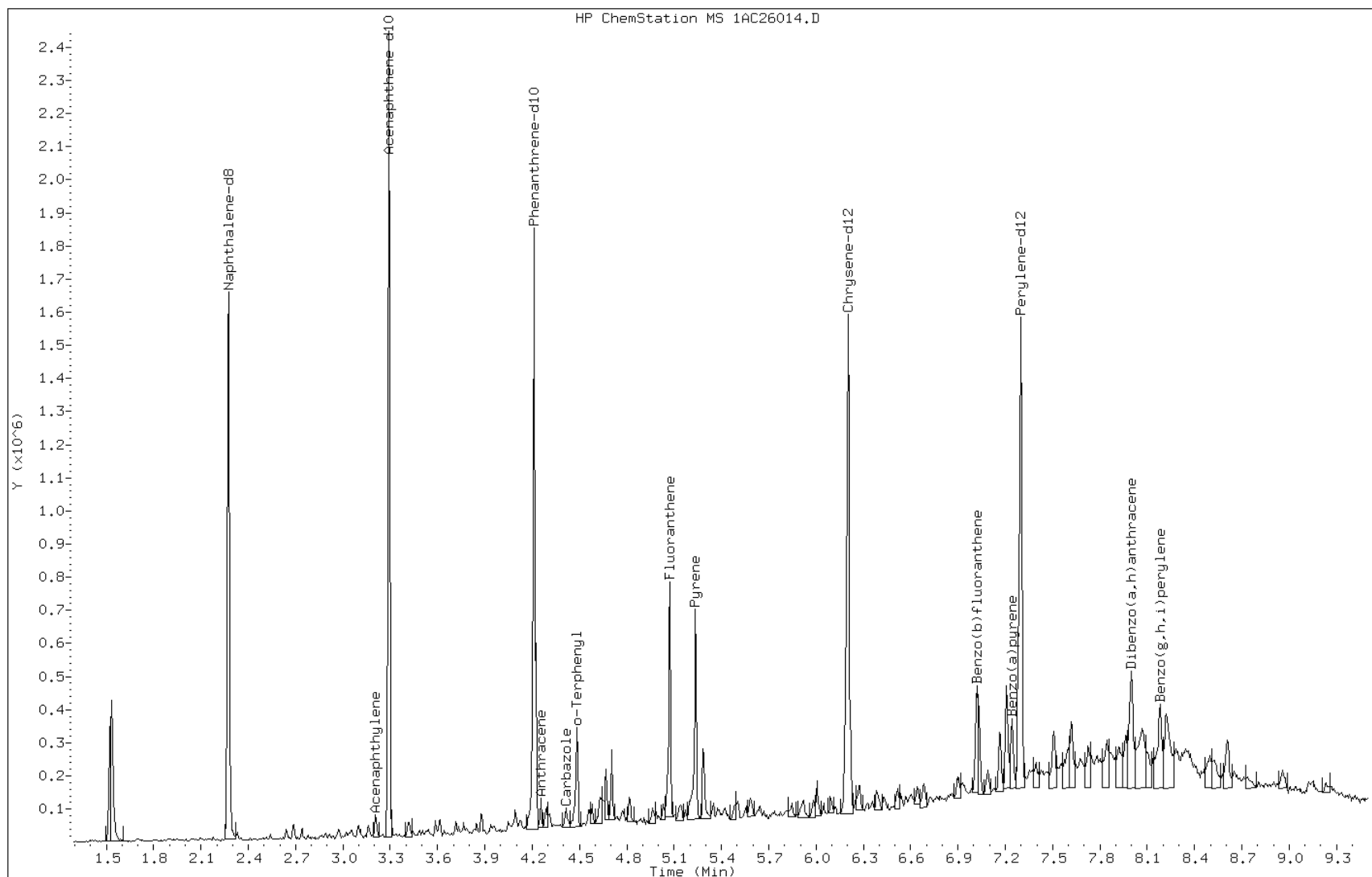
Date: 26-MAR-2013 15:30

Client ID: CV1035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-19-a

Operator: SCC



Data File: 1AC26014.D

Date: 26-MAR-2013 15:30

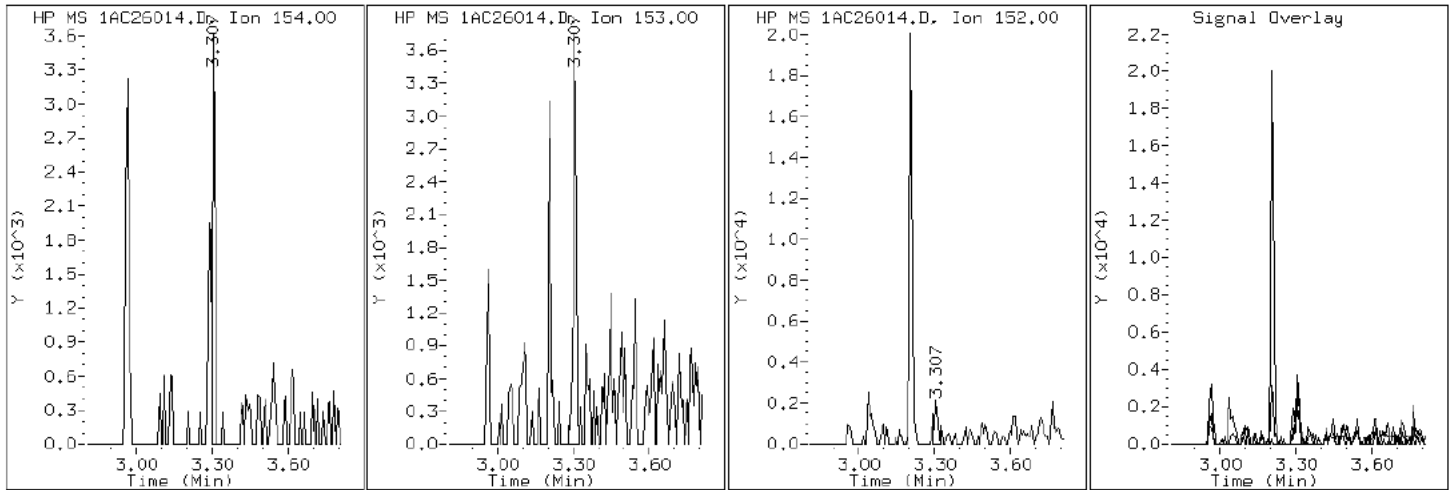
Client ID: CV1035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-19-a

Operator: SCC

7 Acenaphthene



Data File: 1AC26014.D

Date: 26-MAR-2013 15:30

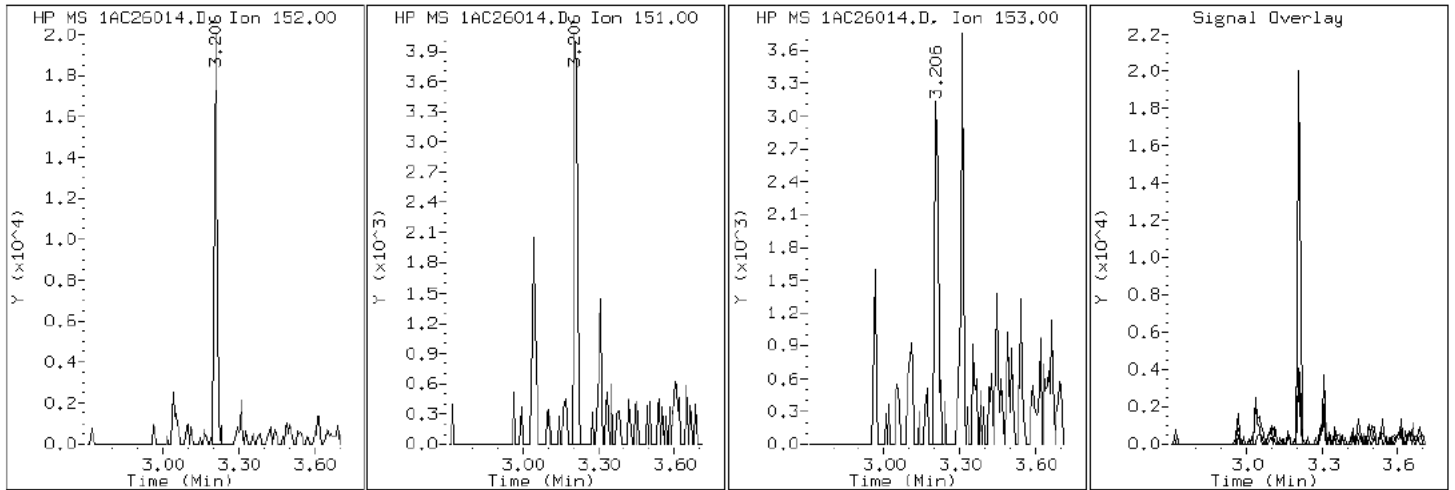
Client ID: CV1035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-19-a

Operator: SCC

5 Acenaphthylene



Data File: 1AC26014.D

Date: 26-MAR-2013 15:30

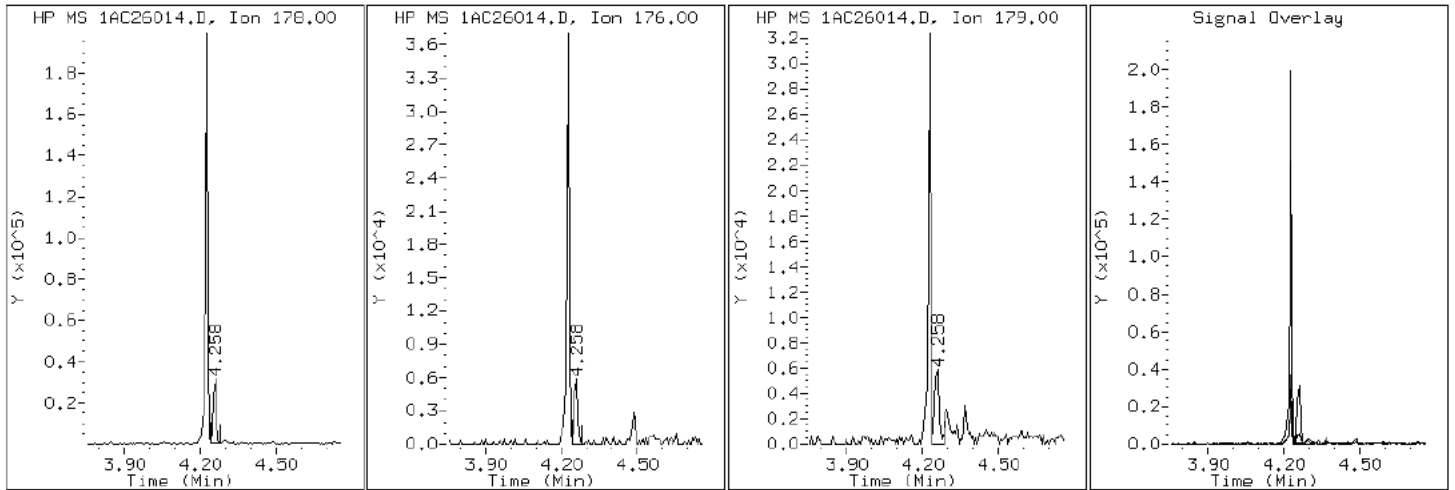
Client ID: CV1035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-19-a

Operator: SCC

12 Anthracene



Data File: 1AC26014.D

Date: 26-MAR-2013 15:30

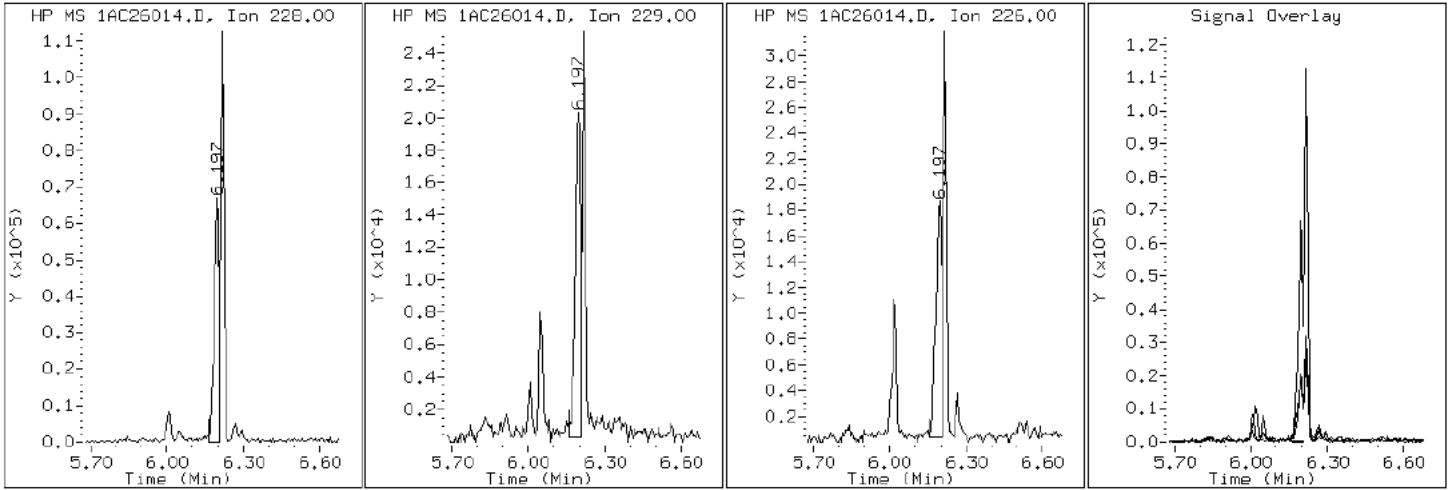
Client ID: CV1035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-19-a

Operator: SCC

17 Benzo(a)anthracene





Data File: 1AC26014.D

Date: 26-MAR-2013 15:30

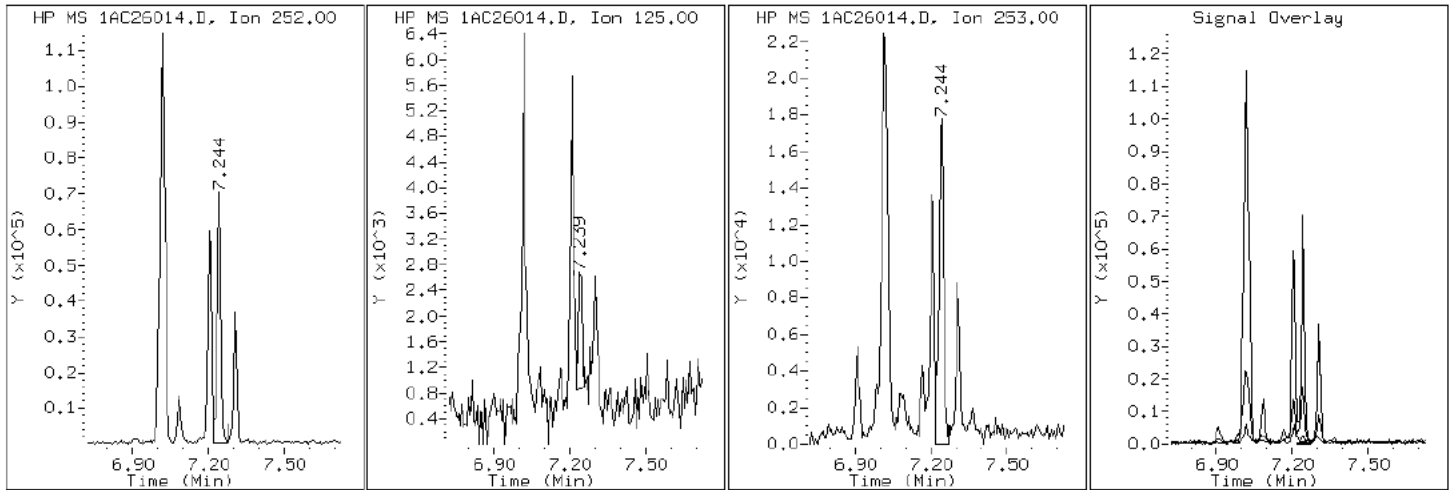
Client ID: CV1035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-19-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC26014.D

Date: 26-MAR-2013 15:30

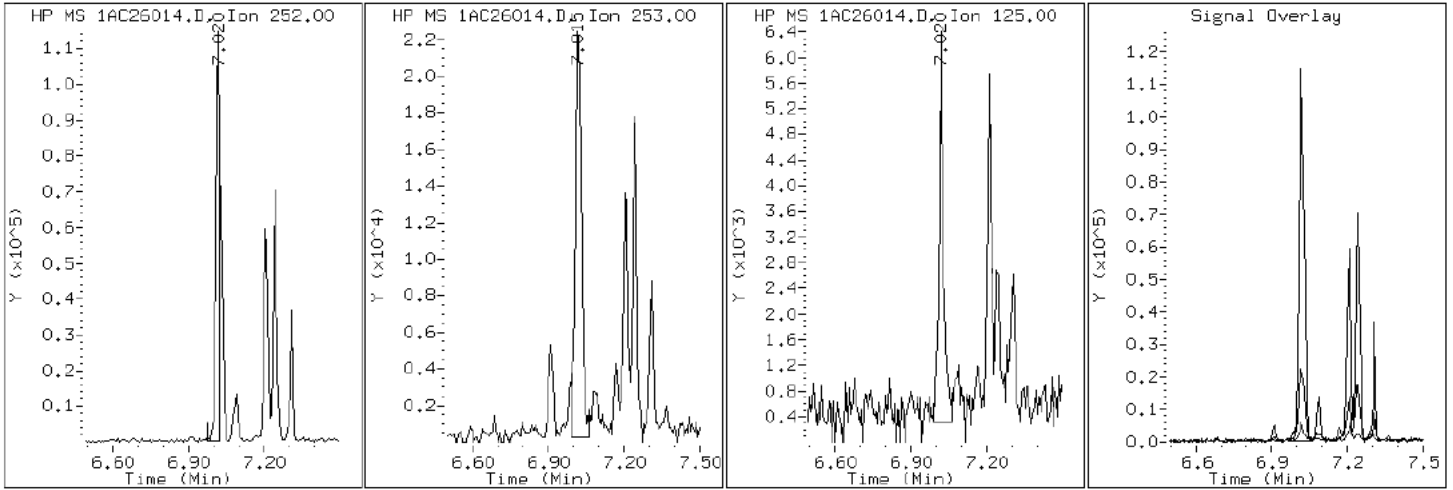
Client ID: CV1035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-19-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC26014.D

Date: 26-MAR-2013 15:30

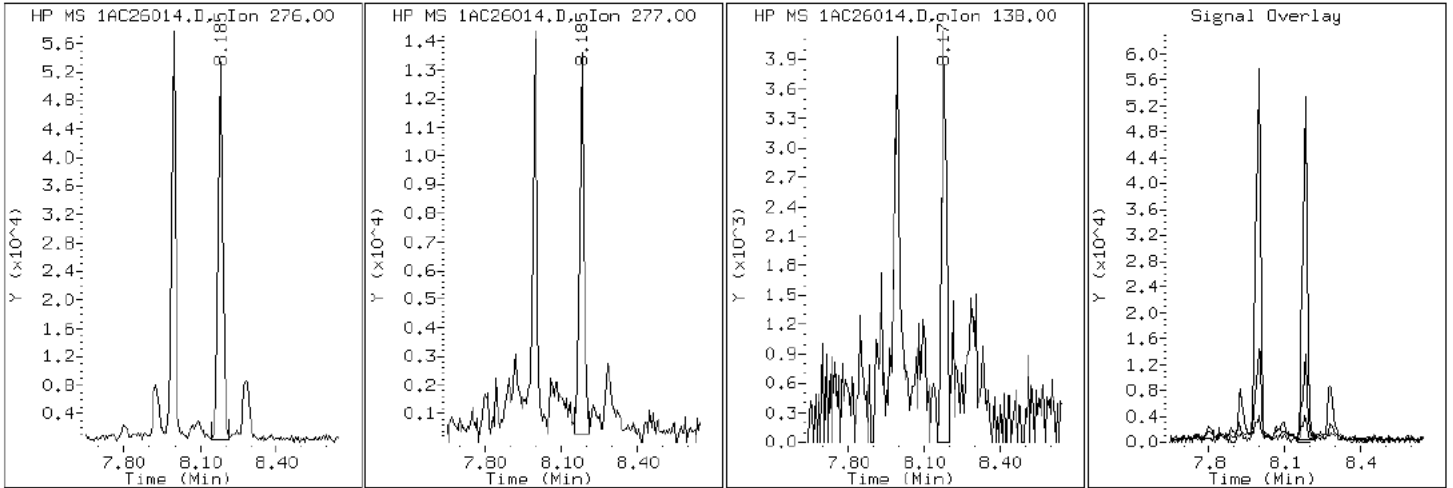
Client ID: CV1035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-19-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC26014.D

Date: 26-MAR-2013 15:30

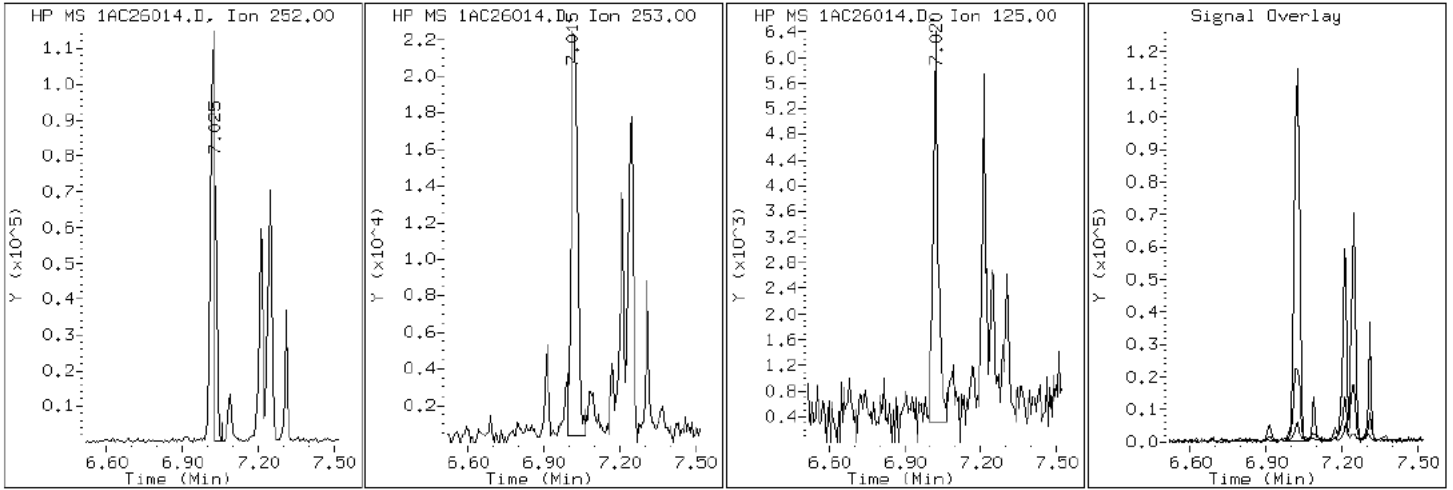
Client ID: CV1035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-19-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC26014.D

Date: 26-MAR-2013 15:30

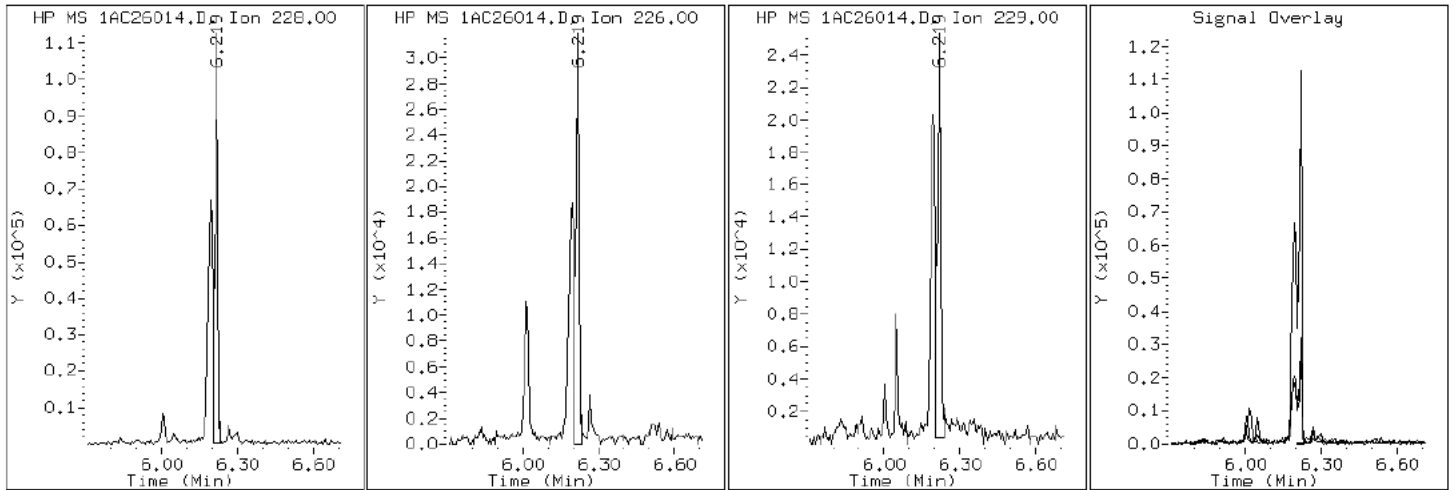
Client ID: CV1035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-19-a

Operator: SCC

19 Chrysene



Data File: 1AC26014.D

Date: 26-MAR-2013 15:30

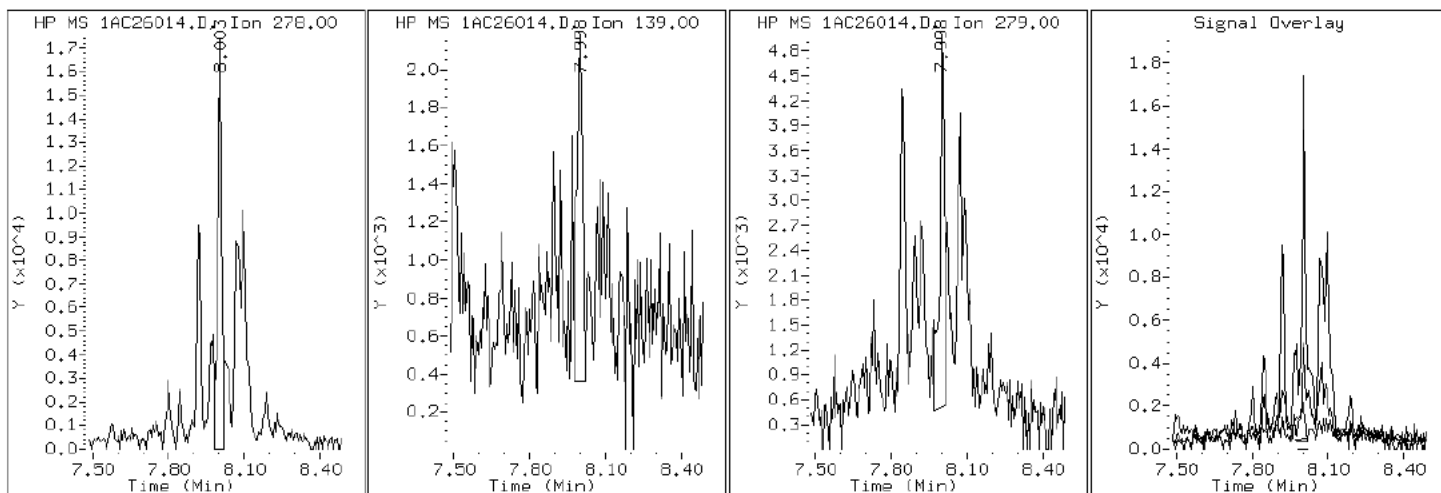
Client ID: CV1035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-19-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC26014.D

Date: 26-MAR-2013 15:30

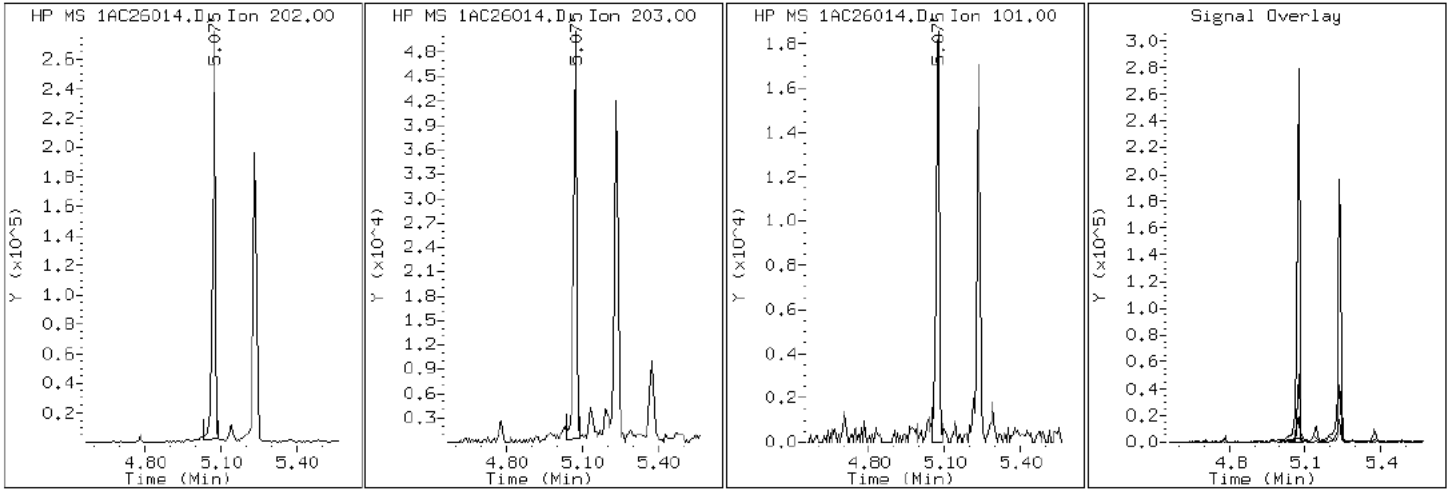
Client ID: CV1035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-19-a

Operator: SCC

15 Fluoranthene



Data File: 1AC26014.D

Date: 26-MAR-2013 15:30

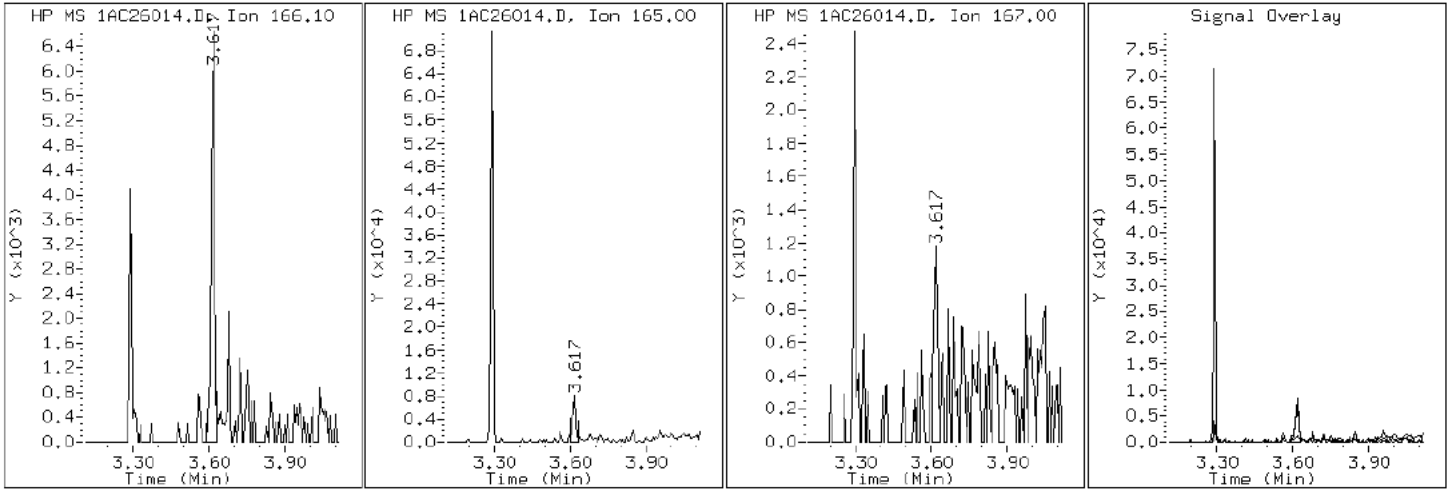
Client ID: CV1035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-19-a

Operator: SCC

9 Fluorene





Data File: 1AC26014.D

Date: 26-MAR-2013 15:30

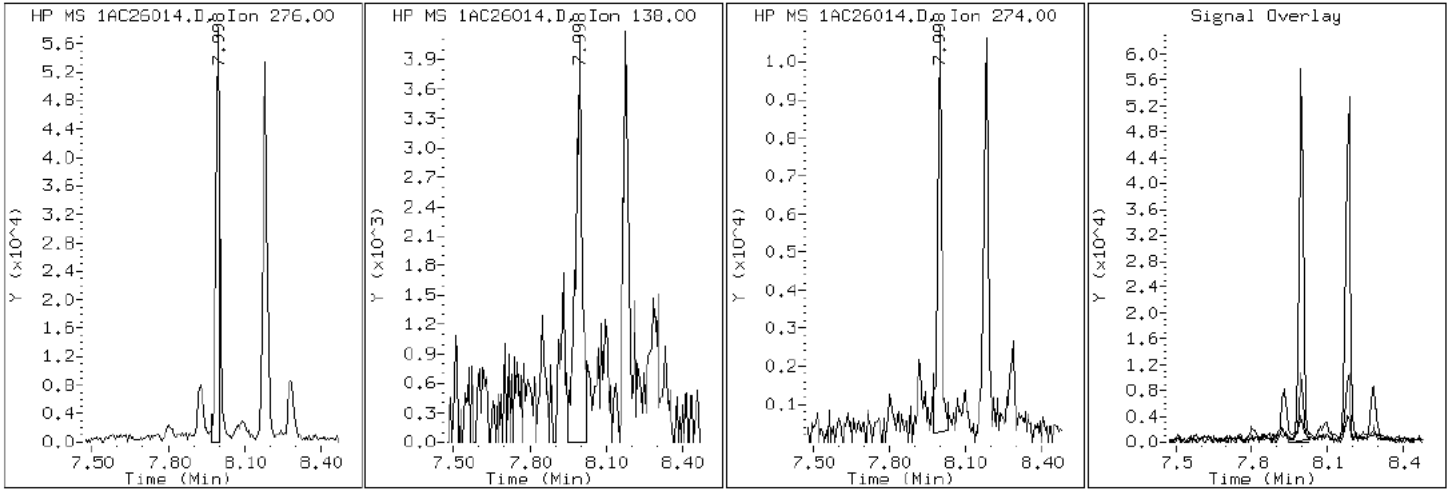
Client ID: CV1035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-19-a

Operator: SCC

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



Data File: 1AC26014.D

Date: 26-MAR-2013 15:30

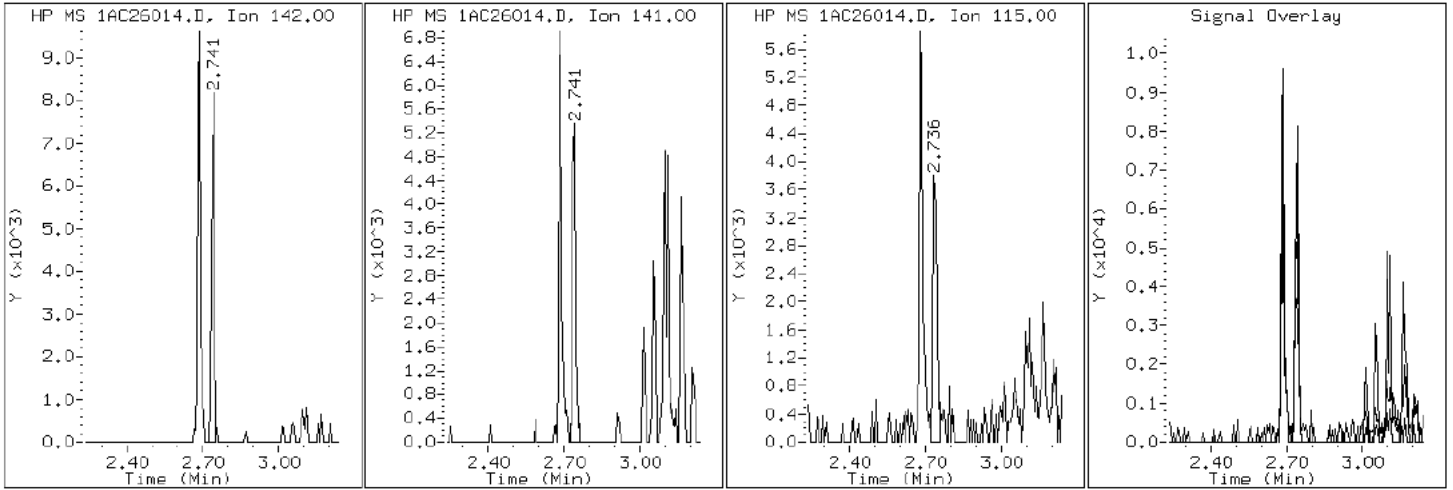
Client ID: CV1035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-19-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC26014.D

Date: 26-MAR-2013 15:30

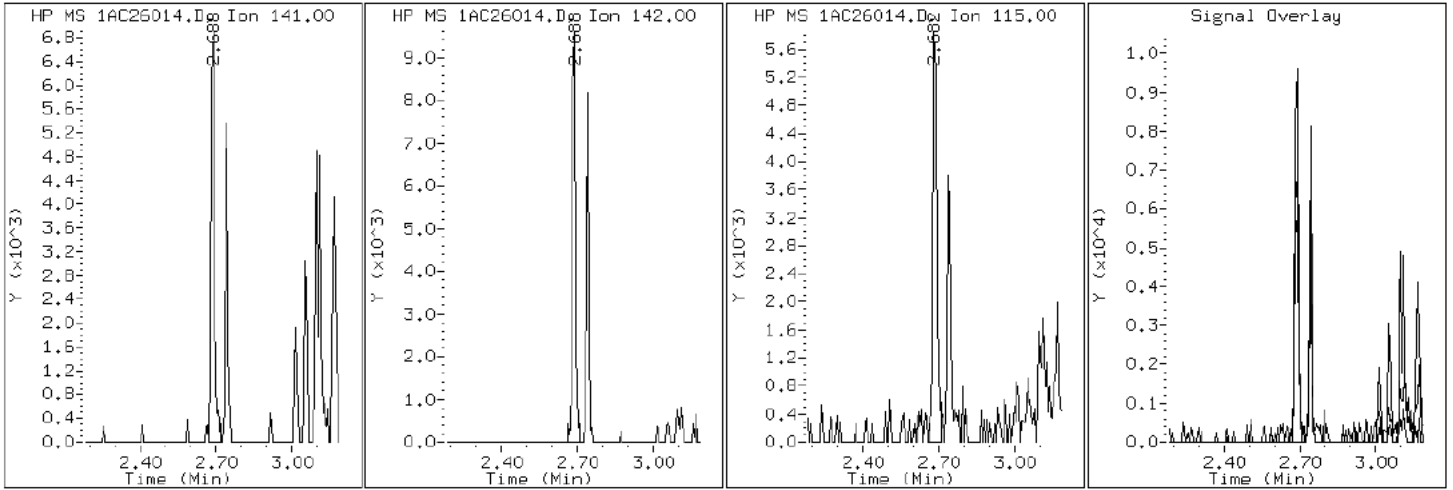
Client ID: CV1035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-19-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC26014.D

Date: 26-MAR-2013 15:30

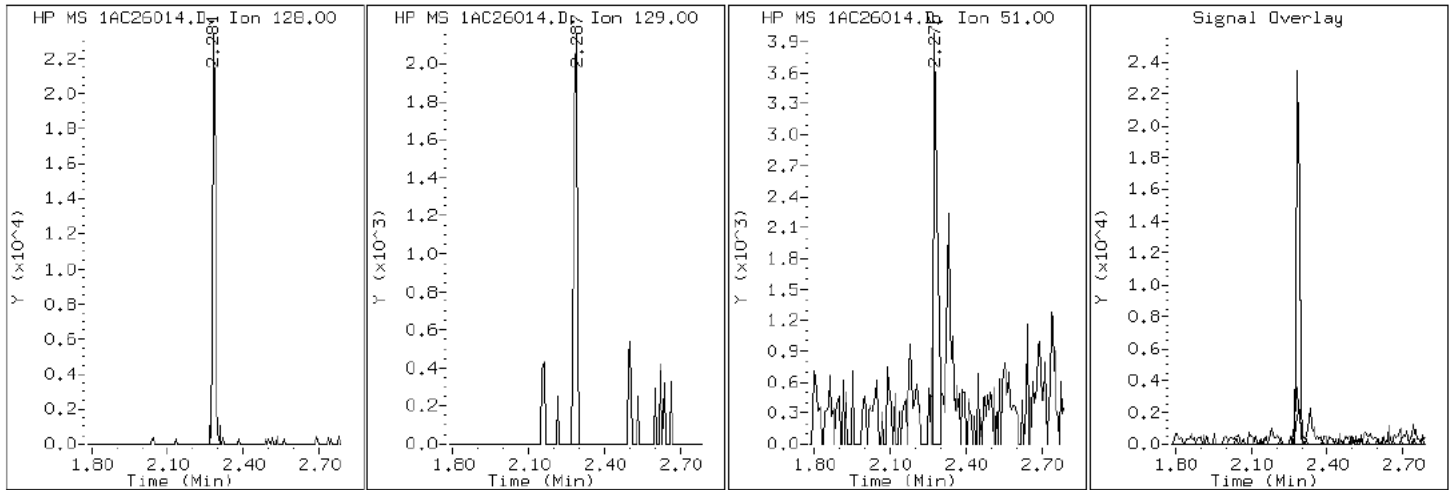
Client ID: CV1035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-19-a

Operator: SCC

2 Naphthalene



Data File: 1AC26014.D

Date: 26-MAR-2013 15:30

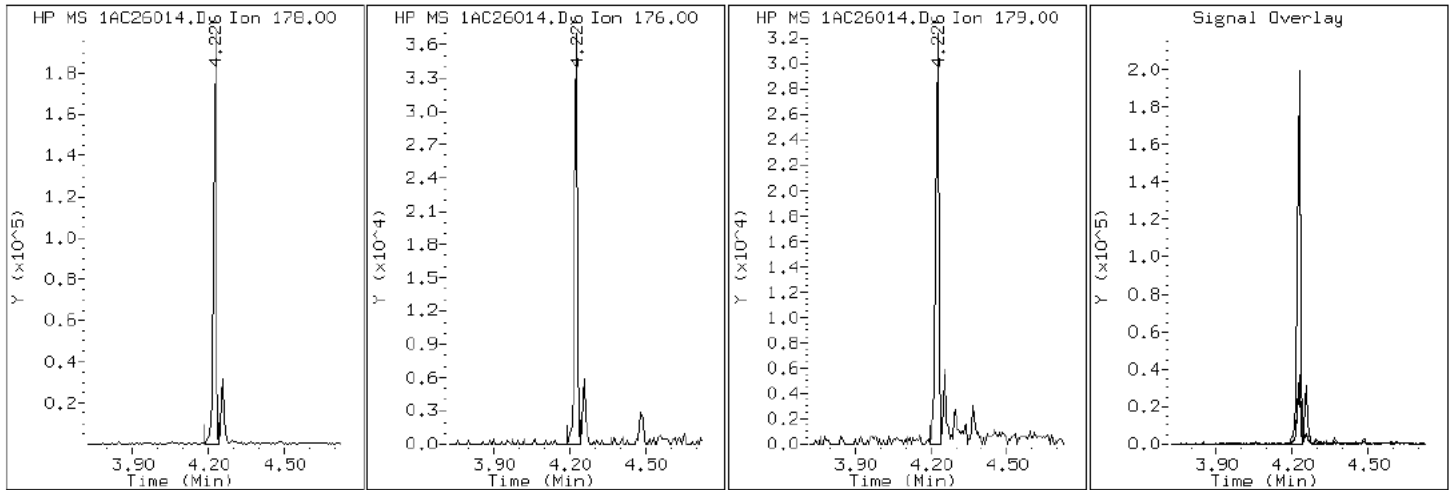
Client ID: CV1035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-19-a

Operator: SCC

11 Phenanthrene



Data File: 1AC26014.D

Date: 26-MAR-2013 15:30

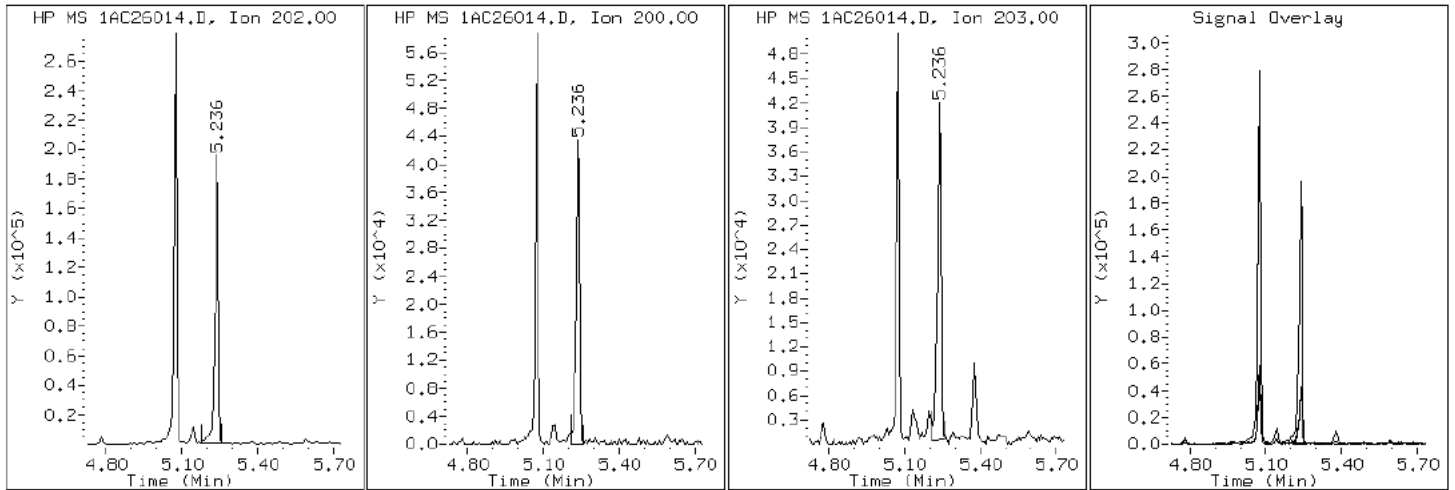
Client ID: CV1035A-CS

Instrument: BSMA5973.i

Sample Info: 680-88420-a-19-a

Operator: SCC

16 Pyrene

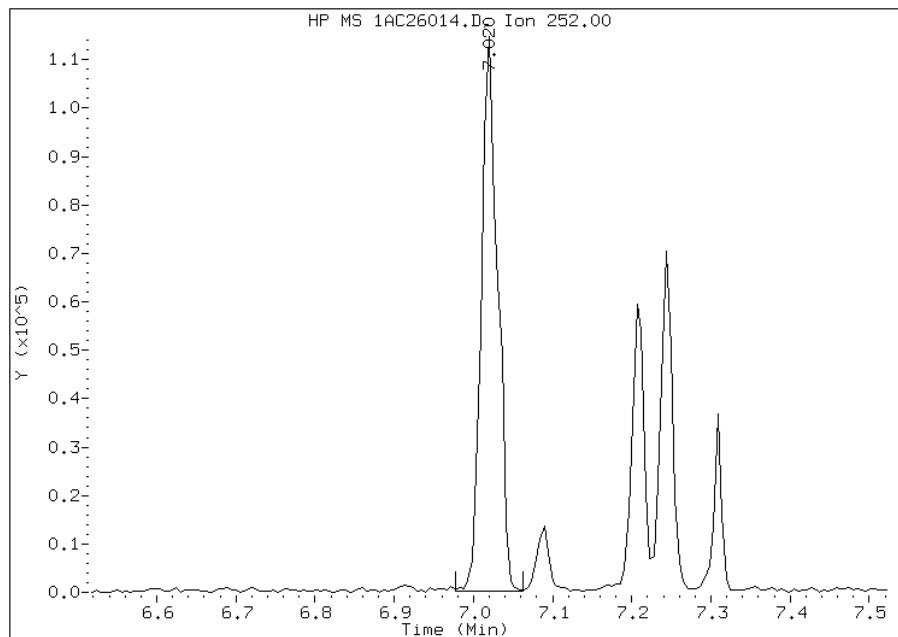


# Manual Integration Report

Data File: 1AC26014.D  
Inj. Date and Time: 26-MAR-2013 15:30  
Instrument ID: BSMA5973.i  
Client ID: CV1035A-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 03/28/2013

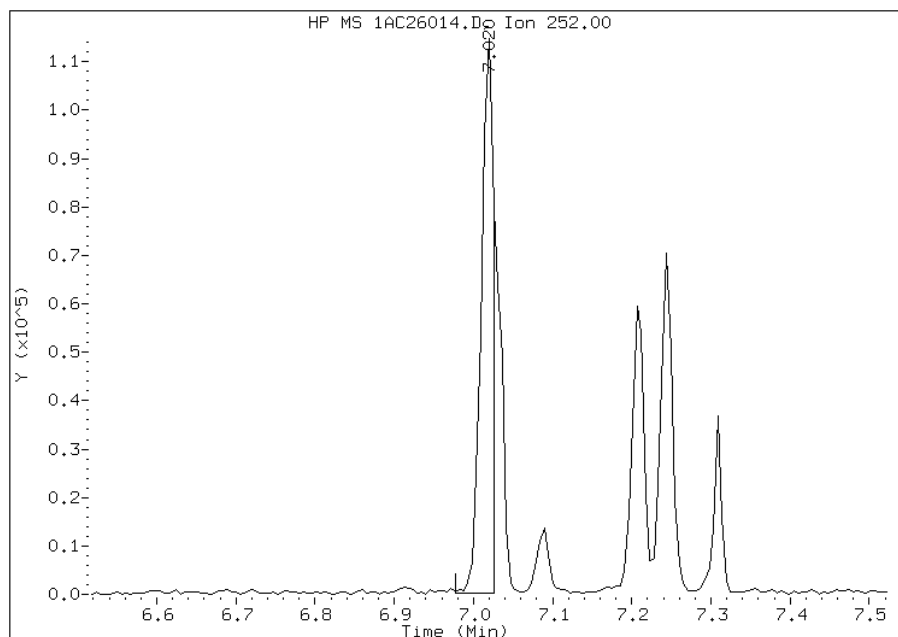
## Processing Integration Results

RT: 7.02  
Response: 161745  
Amount: 13  
Conc: 1022



## Manual Integration Results

RT: 7.02  
Response: 120591  
Amount: 10  
Conc: 785



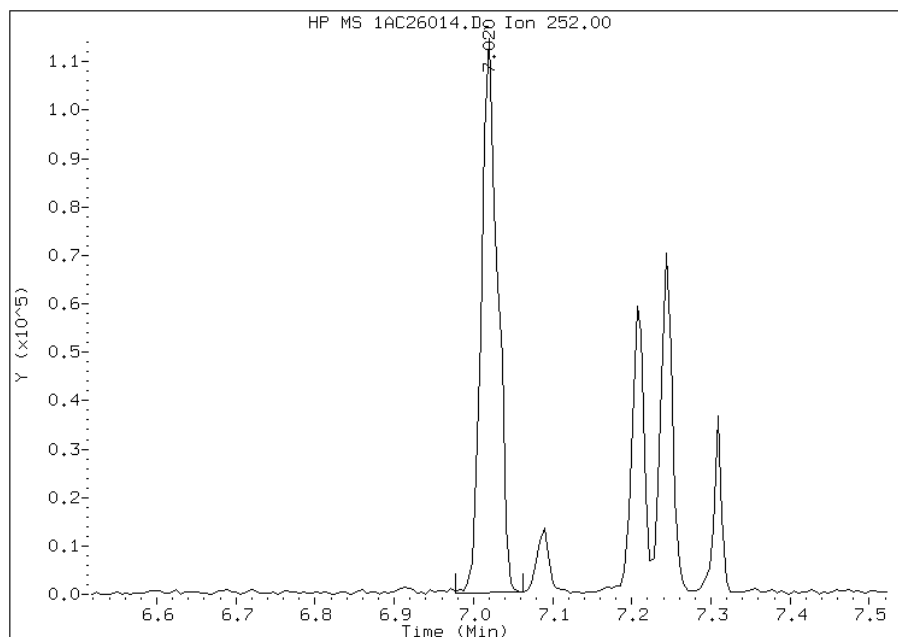
Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 11:24  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AC26014.D  
Inj. Date and Time: 26-MAR-2013 15:30  
Instrument ID: BSMA5973.i  
Client ID: CV1035A-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 03/28/2013

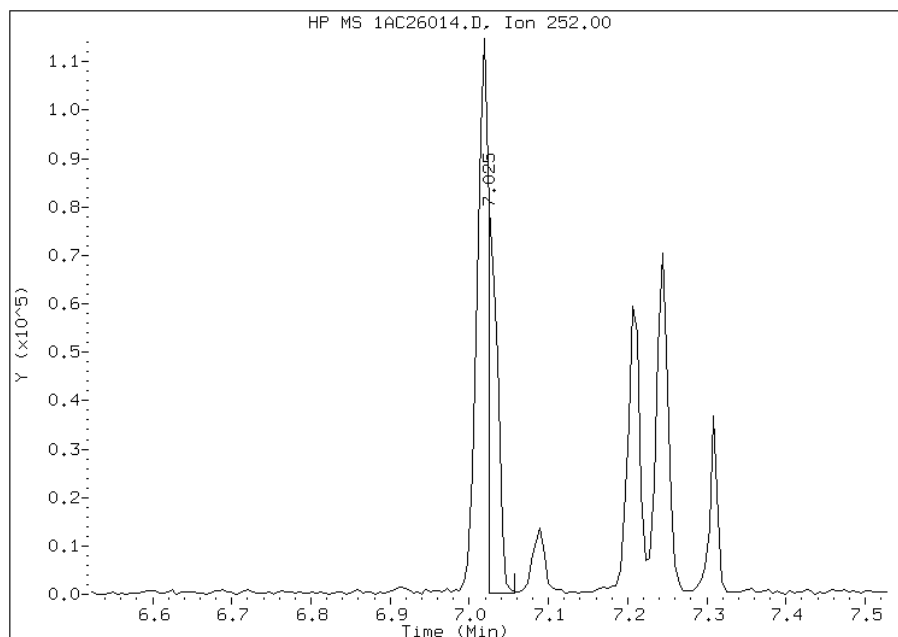
## Processing Integration Results

RT: 7.02  
Response: 161522  
Amount: 12  
Conc: 950



## Manual Integration Results

RT: 7.03  
Response: 66911  
Amount: 5  
Conc: 393



Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 11:24  
Manual Integration Reason: Baseline Event

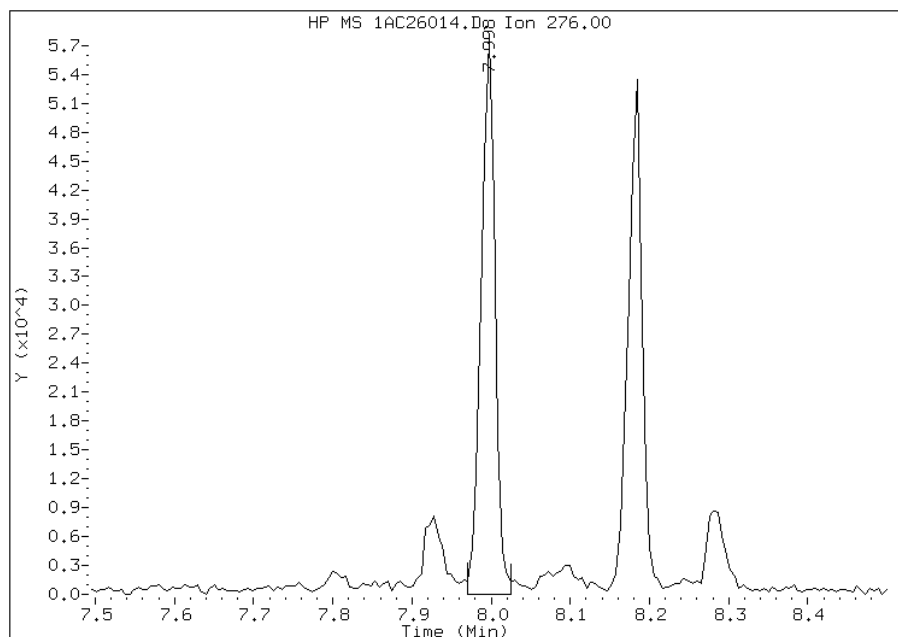


# Manual Integration Report

Data File: 1AC26014.D  
Inj. Date and Time: 26-MAR-2013 15:30  
Instrument ID: BSMA5973.i  
Client ID: CV1035A-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/28/2013

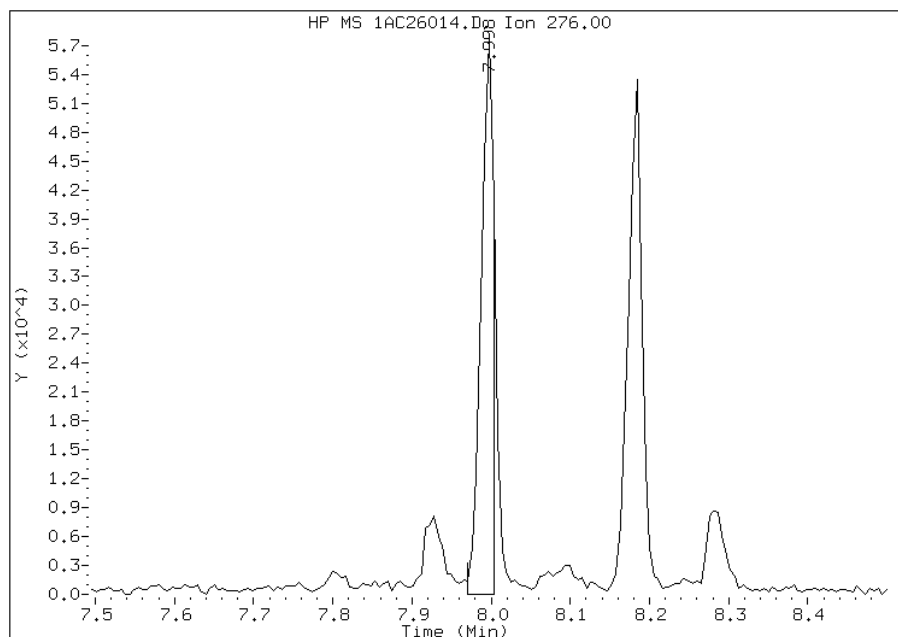
## Processing Integration Results

RT: 8.00  
Response: 69671  
Amount: 7  
Conc: 522



## Manual Integration Results

RT: 8.00  
Response: 61863  
Amount: 6  
Conc: 463



Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 11:25  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: CV1035B-CS Lab Sample ID: 680-88420-20  
 Matrix: Solid Lab File ID: 1CC27032.D  
 Analysis Method: 8270C LL Date Collected: 03/14/2013 14:15  
 Extract. Method: 3546 Date Extracted: 03/21/2013 11:14  
 Sample wt/vol: 14.90 (g) Date Analyzed: 03/27/2013 19:39  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 4  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: 18.5 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	99
208-96-8	Acenaphthylene	57	J	200	25
120-12-7	Anthracene	100		42	21
56-55-3	Benzo[a]anthracene	470		40	19
50-32-8	Benzo[a]pyrene	440		51	26
205-99-2	Benzo[b]fluoranthene	870		60	30
191-24-2	Benzo[g,h,i]perylene	420		99	22
207-08-9	Benzo[k]fluoranthene	300		40	18
218-01-9	Chrysene	580		44	22
53-70-3	Dibenz(a,h)anthracene	130		99	20
206-44-0	Fluoranthene	880		99	20
86-73-7	Fluorene	24	J	99	20
193-39-5	Indeno[1,2,3-cd]pyrene	260		99	35
90-12-0	1-Methylnaphthalene	110	J	200	22
91-57-6	2-Methylnaphthalene	160	J	200	35
91-20-3	Naphthalene	150	J	200	22
85-01-8	Phenanthrene	470		40	19
129-00-0	Pyrene	780		99	18

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\1CC27032.D  
 Lab Smp Id: 680-88420-A-20-A Client Smp ID: CV1035B-CS  
 Inj Date : 27-MAR-2013 19:39  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88420-a-20-a  
 Misc Info : 680-88420-A-20-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: 32  
 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	14.900	Weight Extracted
M	18.535	% 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)	790291	40.0000		
* 6 Acenaphthene-d10	164		4.816	4.815	(1.000)	617162	40.0000		
* 10 Phenanthrene-d10	188		5.763	5.762	(1.000)	1095902	40.0000		
\$ 14 o-Terphenyl	230		6.015	6.015	(1.044)	34963	2.11305	696.3285	
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1170999	40.0000		
* 23 Perylene-d12	264		8.892	8.886	(1.000)	1142902	40.0000		
2 Naphthalene	128		3.739	3.739	(1.003)	9468	0.46019	151.6488(Q)	
3 2-Methylnaphthalene	142		4.169	4.168	(1.118)	6495	0.47326	155.9572	
4 1-Methylnaphthalene	142		4.227	4.227	(1.134)	4174	0.33394	110.0461	
5 Acenaphthylene	152		4.727	4.727	(0.982)	4303	0.17294	56.9889	
9 Fluorene	166		5.157	5.157	(1.071)	1395	0.07132	23.5034(Q)	
11 Phenanthrene	178		5.780	5.780	(1.003)	44913	1.41732	467.0609	
12 Anthracene	178		5.815	5.815	(1.009)	9420	0.30396	100.1650	
13 Carbazole	167		5.921	5.921	(1.028)	5784	0.20995	69.1872	

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)	92410	2.66289	877.5228
16 Pyrene	202	6.786	6.786	(0.881)	74502	2.36748	780.1737
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	48188	1.42579	469.8531
19 Chrysene	228	7.727	7.727	(1.003)	60029	1.77481	584.8685
20 Benzo(b)fluoranthene	252	8.545	8.539	(0.961)	78564	2.63035	866.7993
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.963)	28144	0.91853	302.6907(Q)
22 Benzo(a)pyrene	252	8.833	8.833	(0.993)	38816	1.33793	440.8999
24 Indeno(1,2,3-cd)pyrene	276	10.045	10.050	(1.130)	21483	0.78715	259.3971(M)
25 Dibenzo(a,h)anthracene	278	10.056	10.068	(1.131)	10555	0.39539	130.2948
26 Benzo(g,h,i)perylene	276	10.398	10.397	(1.169)	36690	1.28513	423.4981(M)

QC Flag Legend

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

Data File: 1CC27032.D

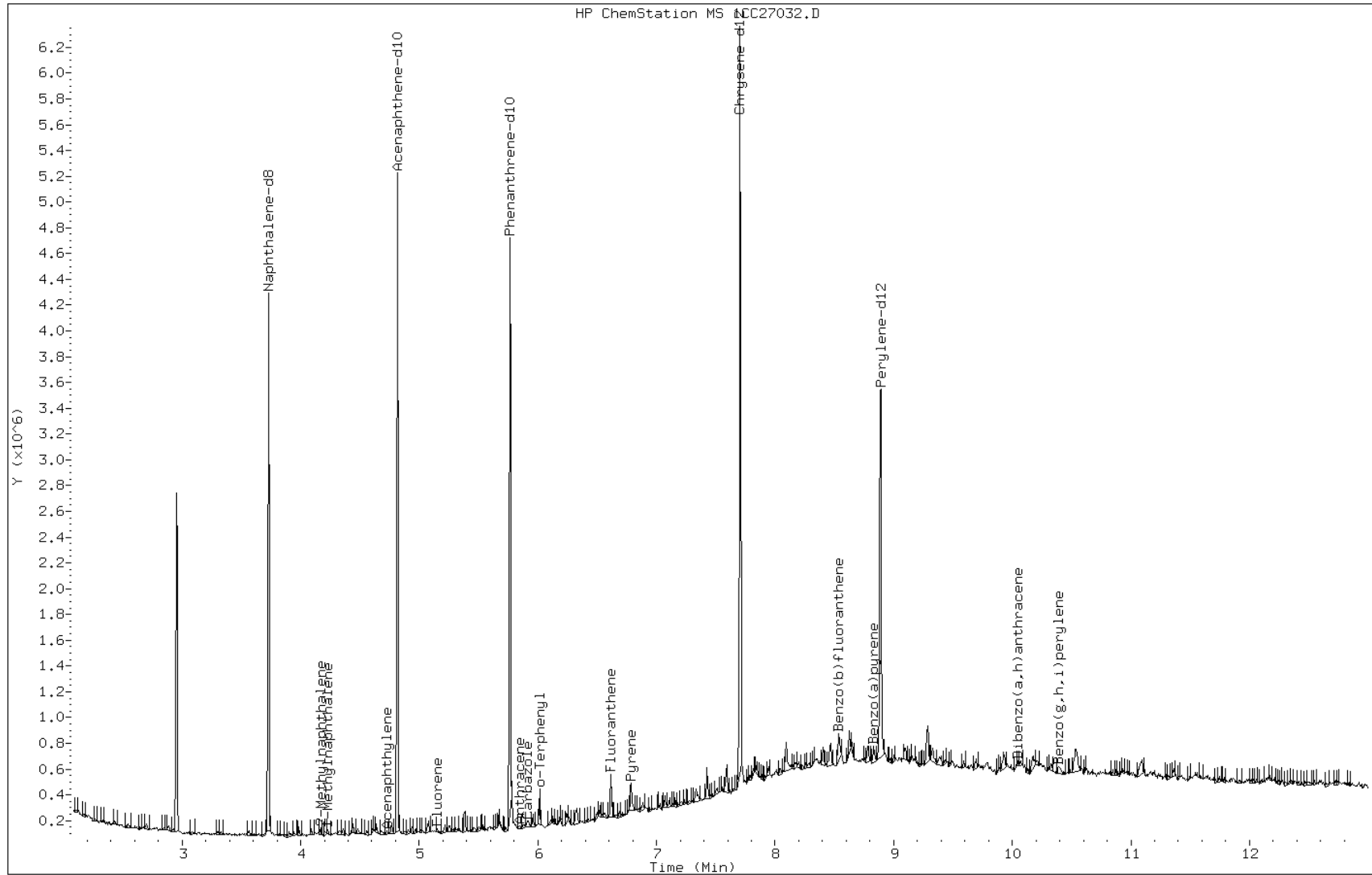
Date: 27-MAR-2013 19:39

Client ID: CV1035B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-20-a

Operator: SCC



Data File: 1CC27032.D

Date: 27-MAR-2013 19:39

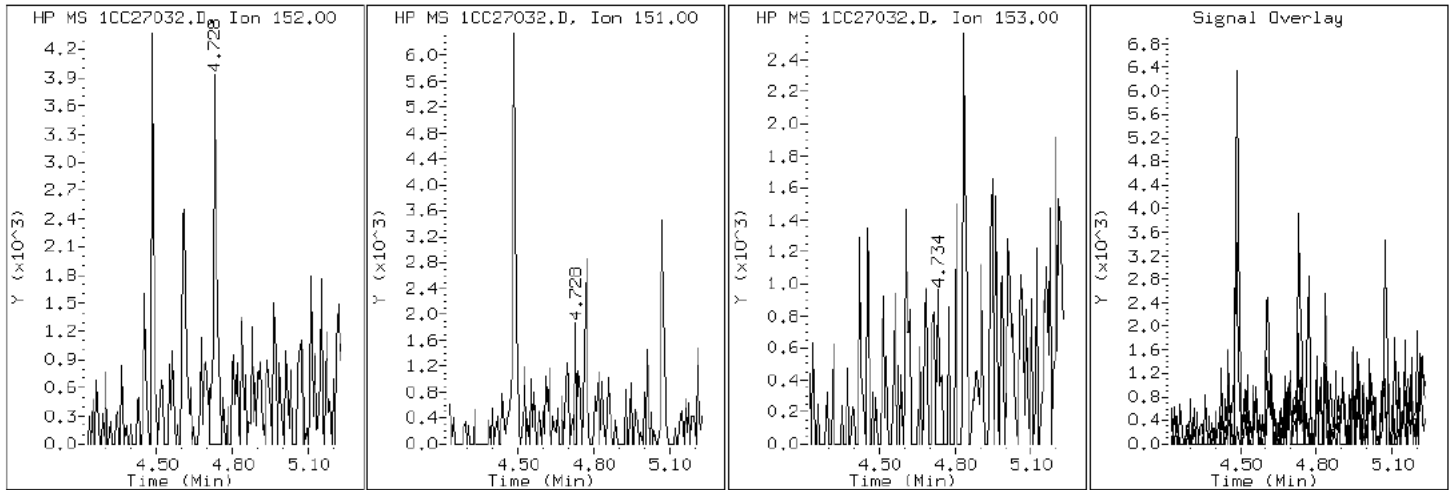
Client ID: CV1035B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-20-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC27032.D

Date: 27-MAR-2013 19:39

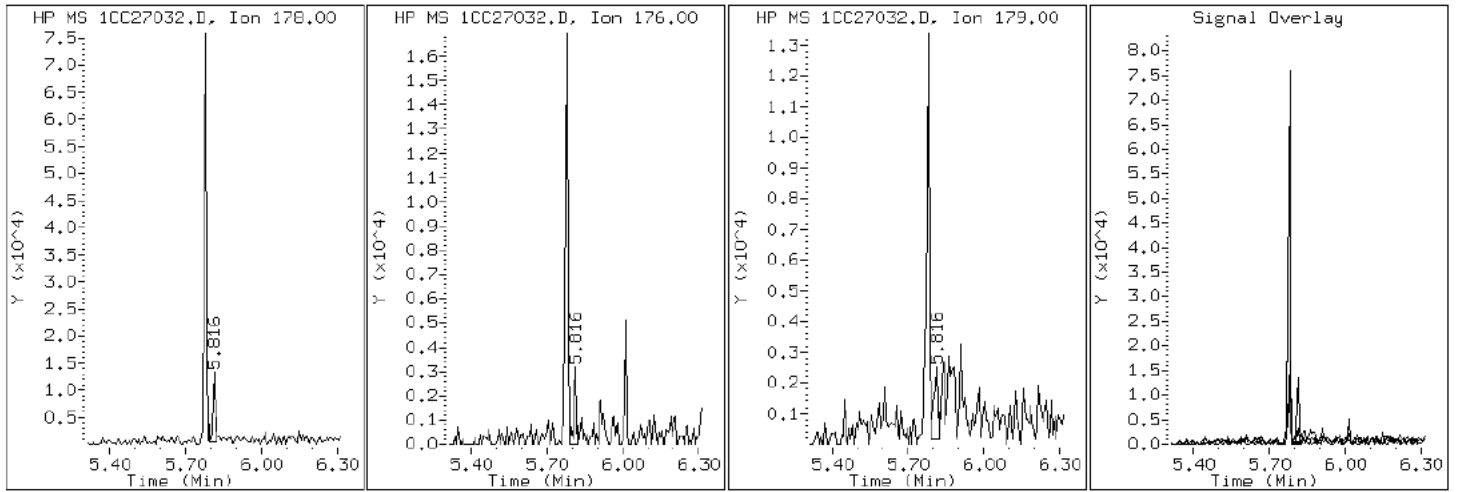
Client ID: CV1035B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-20-a

Operator: SCC

12 Anthracene



Data File: 1CC27032.D

Date: 27-MAR-2013 19:39

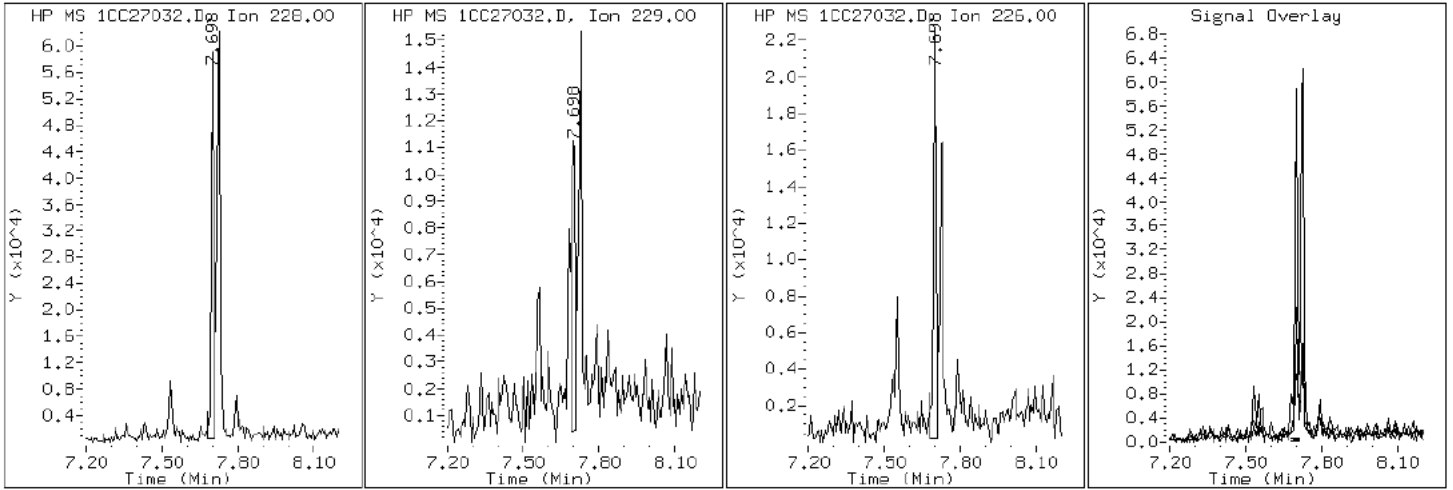
Client ID: CV1035B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-20-a

Operator: SCC

17 Benzo(a)anthracene





Data File: 1CC27032.D

Date: 27-MAR-2013 19:39

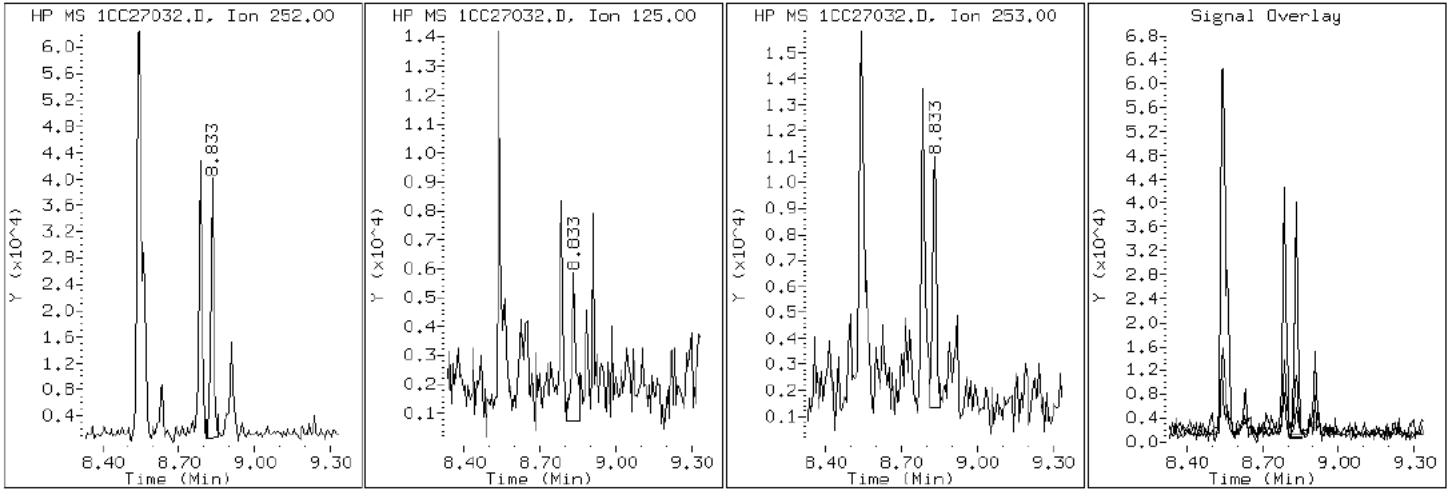
Client ID: CV1035B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-20-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC27032.D

Date: 27-MAR-2013 19:39

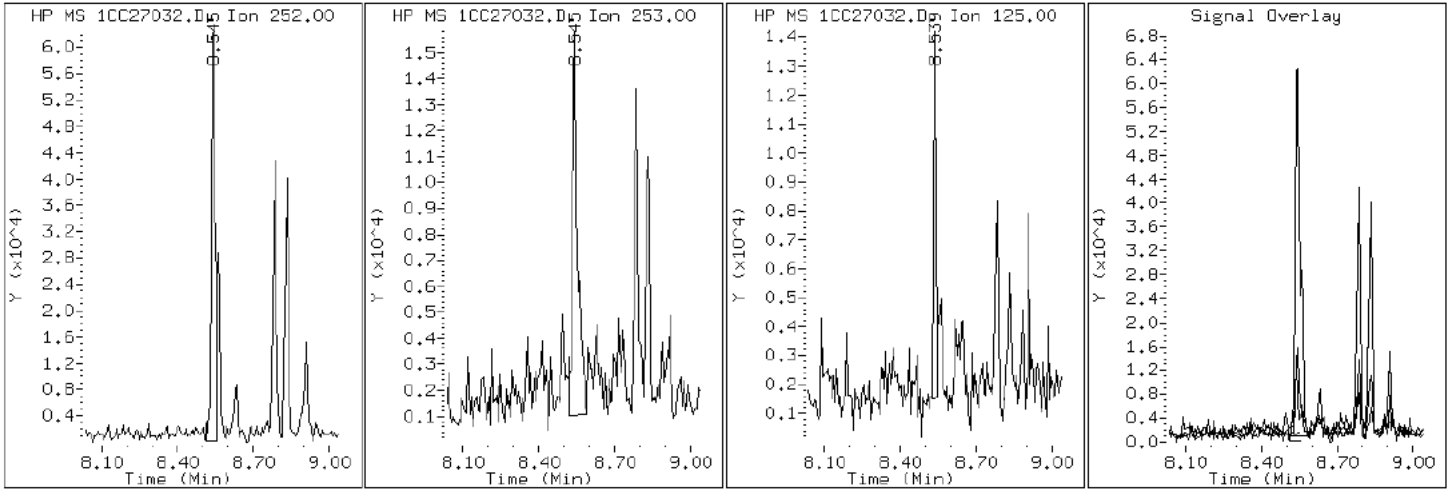
Client ID: CV1035B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-20-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC27032.D

Date: 27-MAR-2013 19:39

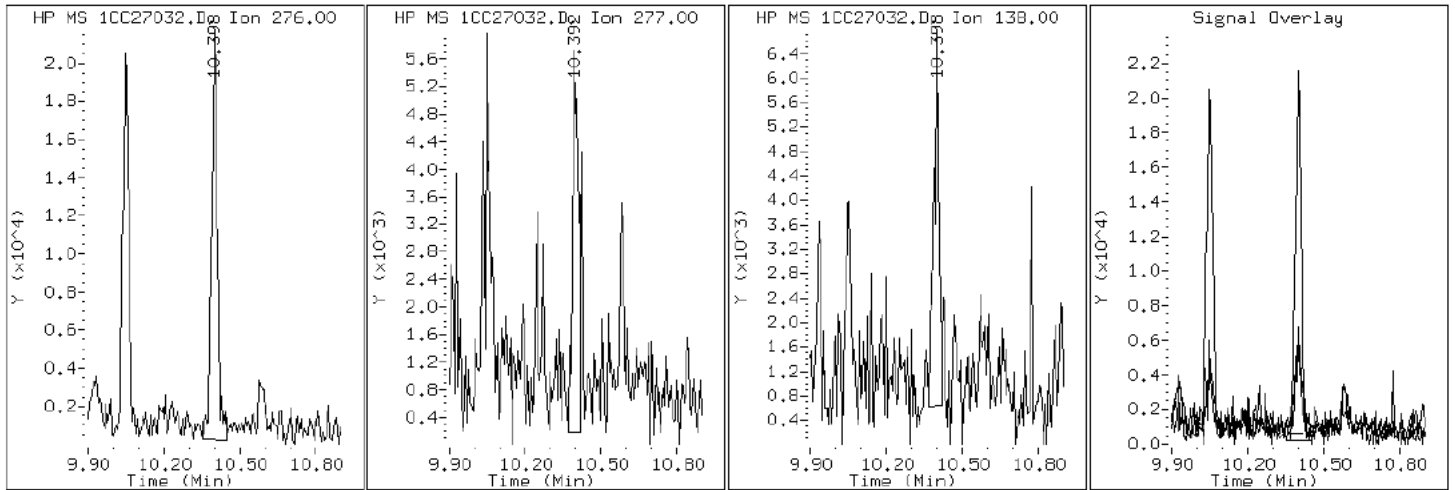
Client ID: CV1035B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-20-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC27032.D

Date: 27-MAR-2013 19:39

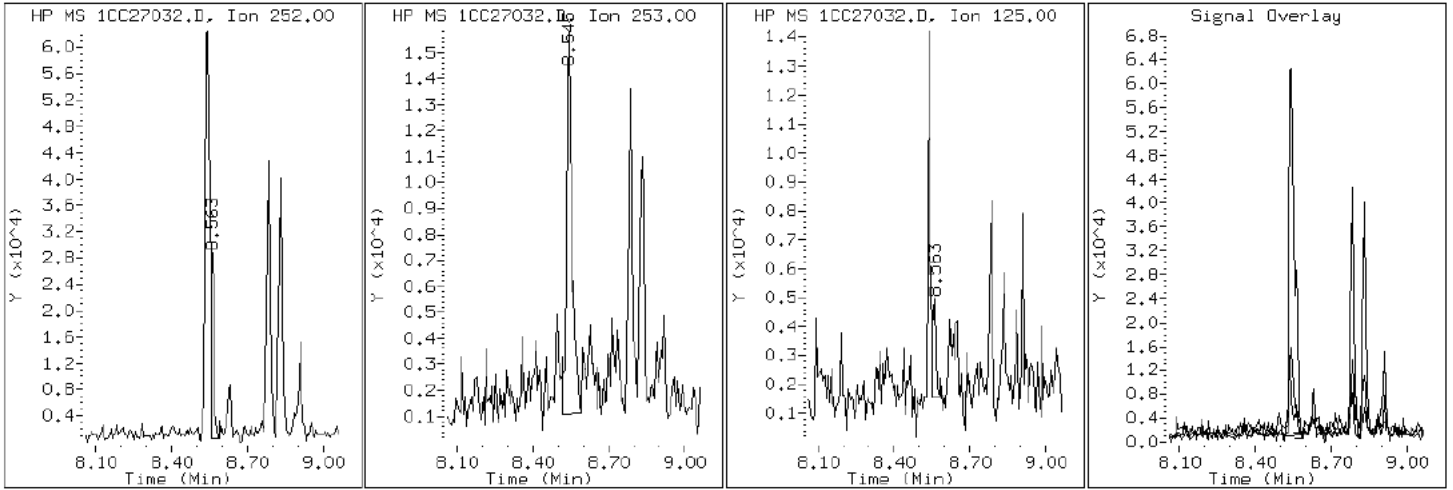
Client ID: CV1035B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-20-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC27032.D

Date: 27-MAR-2013 19:39

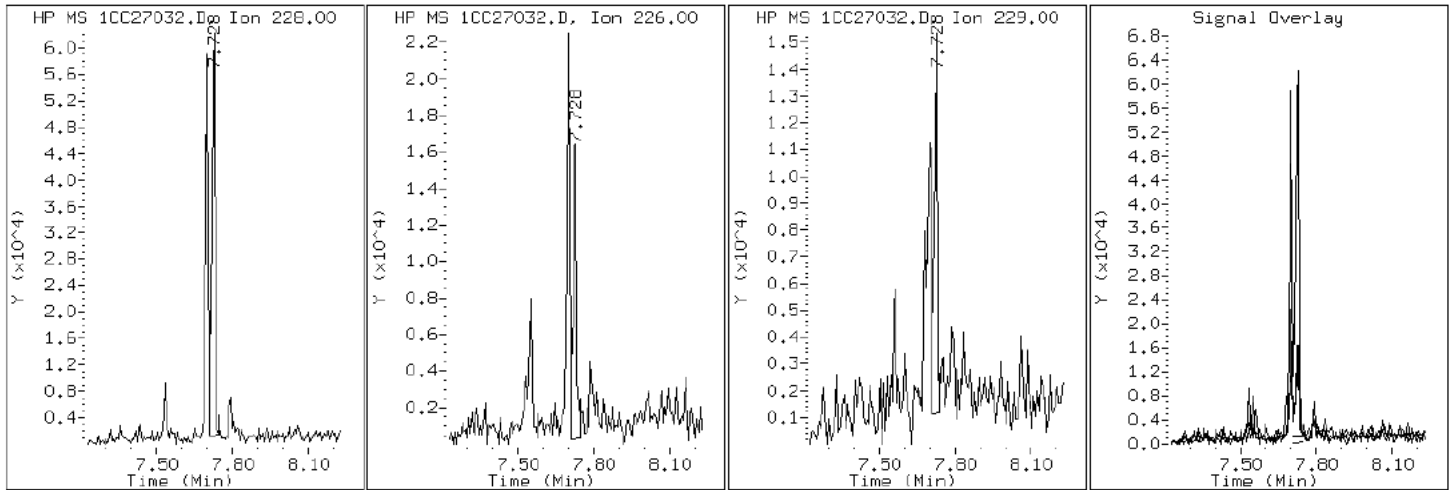
Client ID: CV1035B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-20-a

Operator: SCC

19 Chrysene



Data File: 1CC27032.D

Date: 27-MAR-2013 19:39

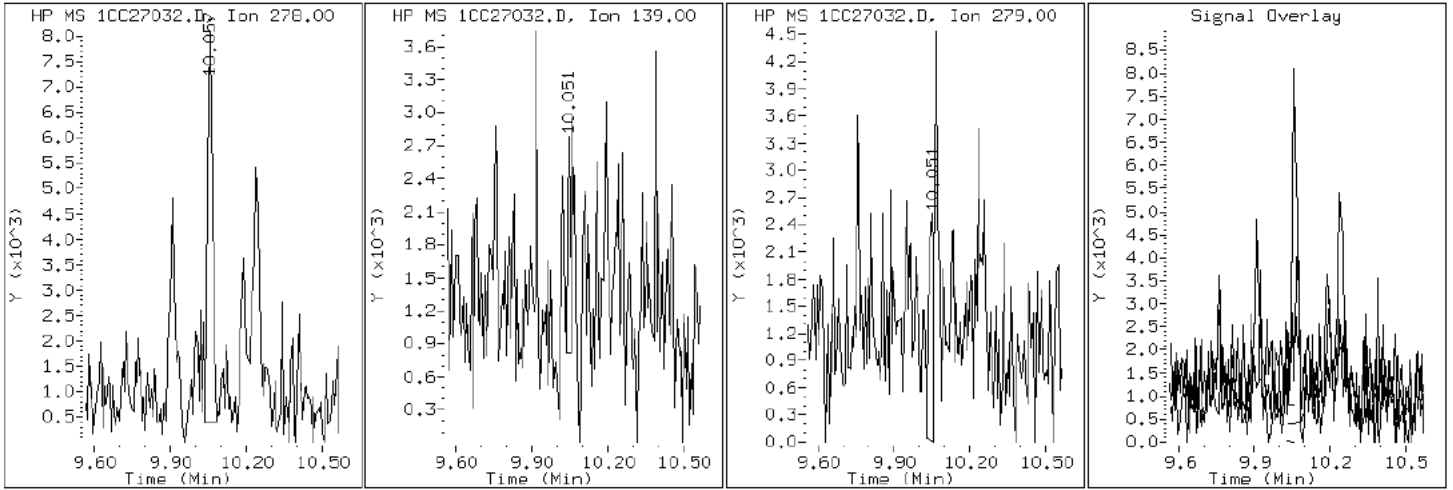
Client ID: CV1035B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-20-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC27032.D

Date: 27-MAR-2013 19:39

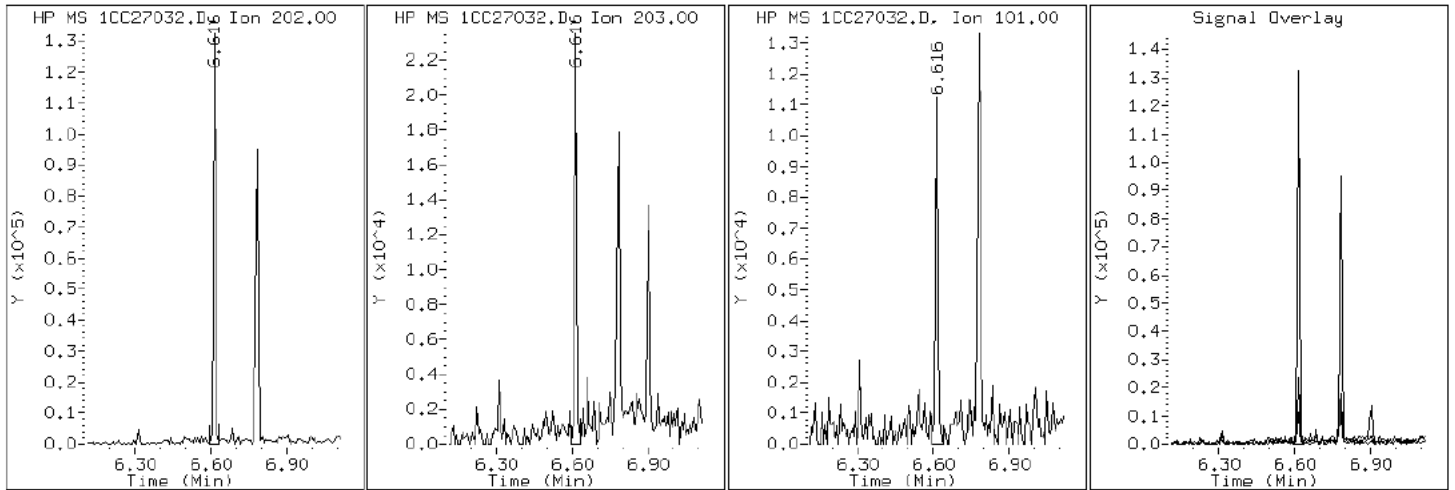
Client ID: CV1035B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-20-a

Operator: SCC

15 Fluoranthene



Data File: 1CC27032.D

Date: 27-MAR-2013 19:39

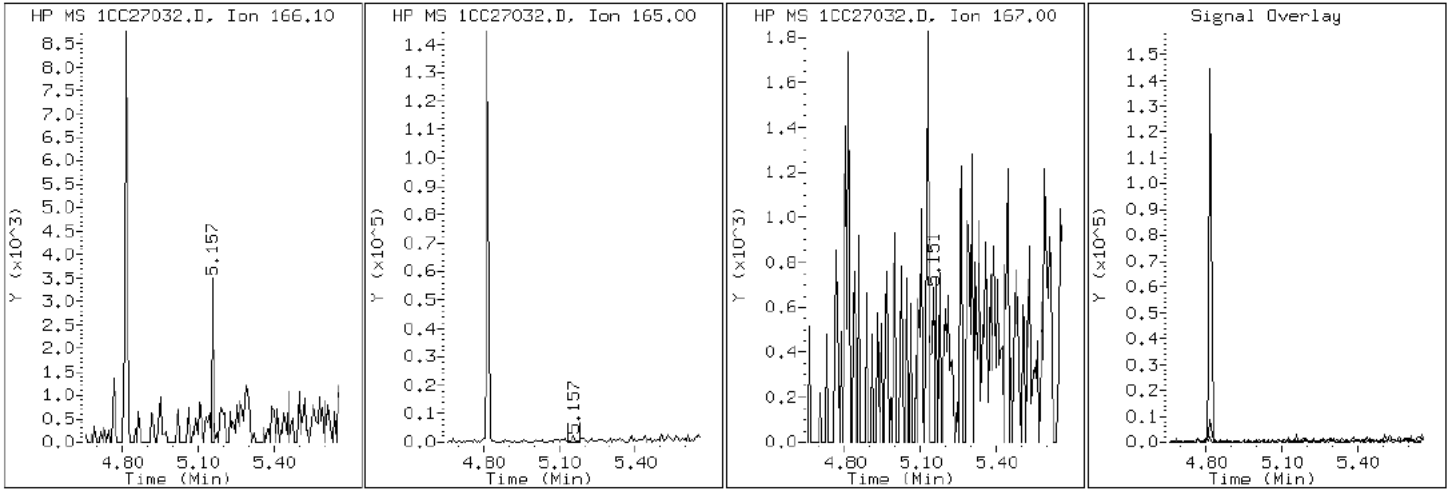
Client ID: CV1035B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-20-a

Operator: SCC

9 Fluorene





Data File: 1CC27032.D

Date: 27-MAR-2013 19:39

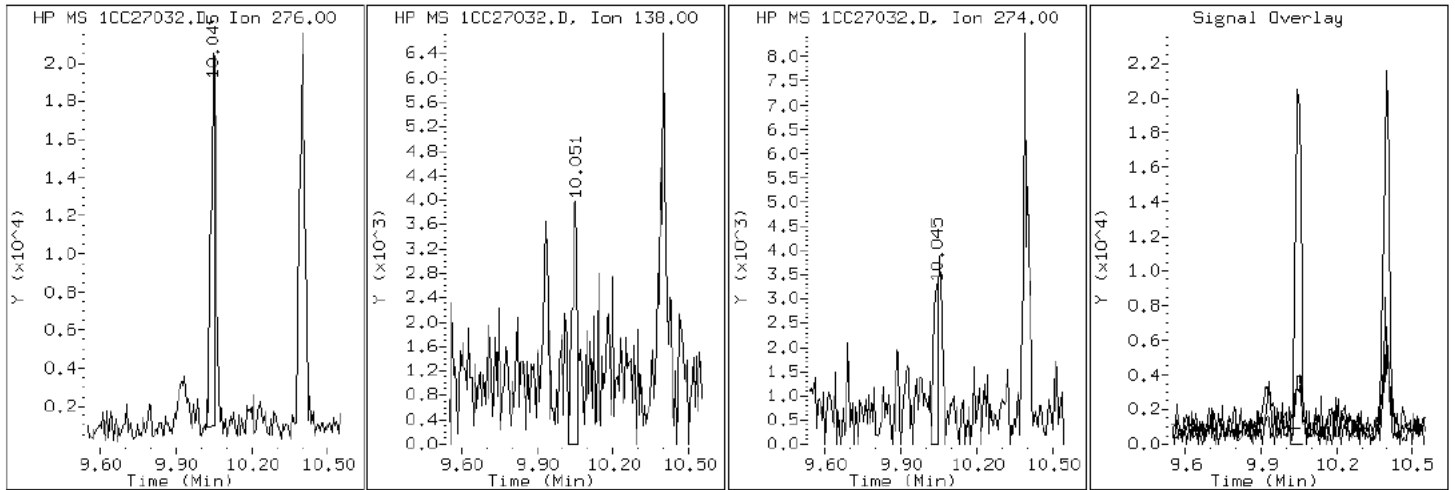
Client ID: CV1035B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-20-a

Operator: SCC

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



Data File: 1CC27032.D

Date: 27-MAR-2013 19:39

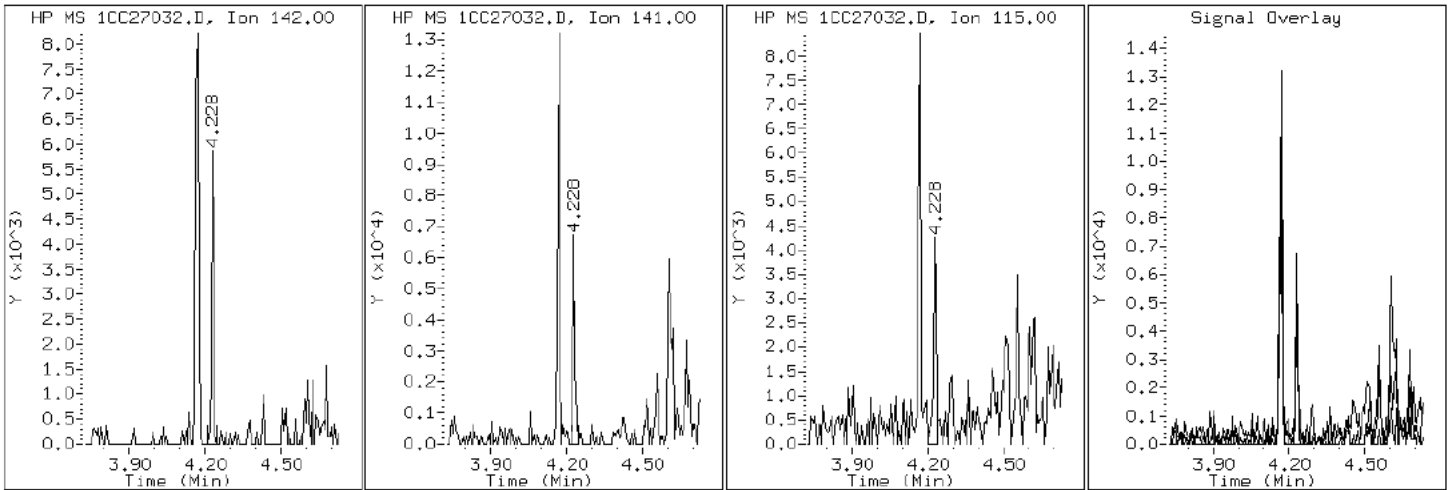
Client ID: CV1035B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-20-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC27032.D

Date: 27-MAR-2013 19:39

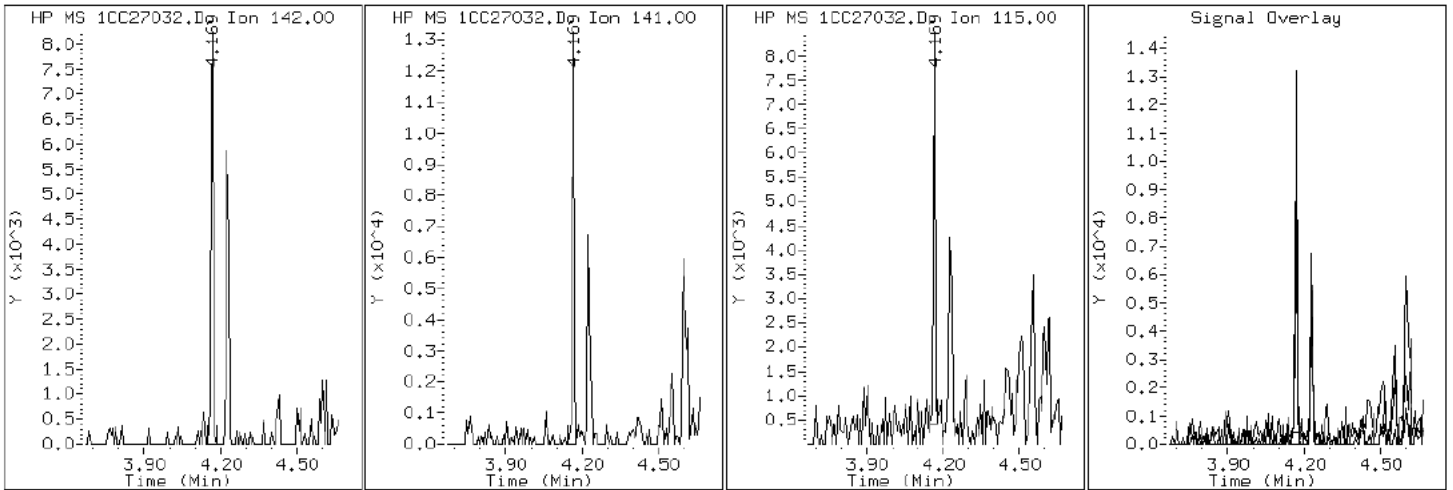
Client ID: CV1035B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-20-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC27032.D

Date: 27-MAR-2013 19:39

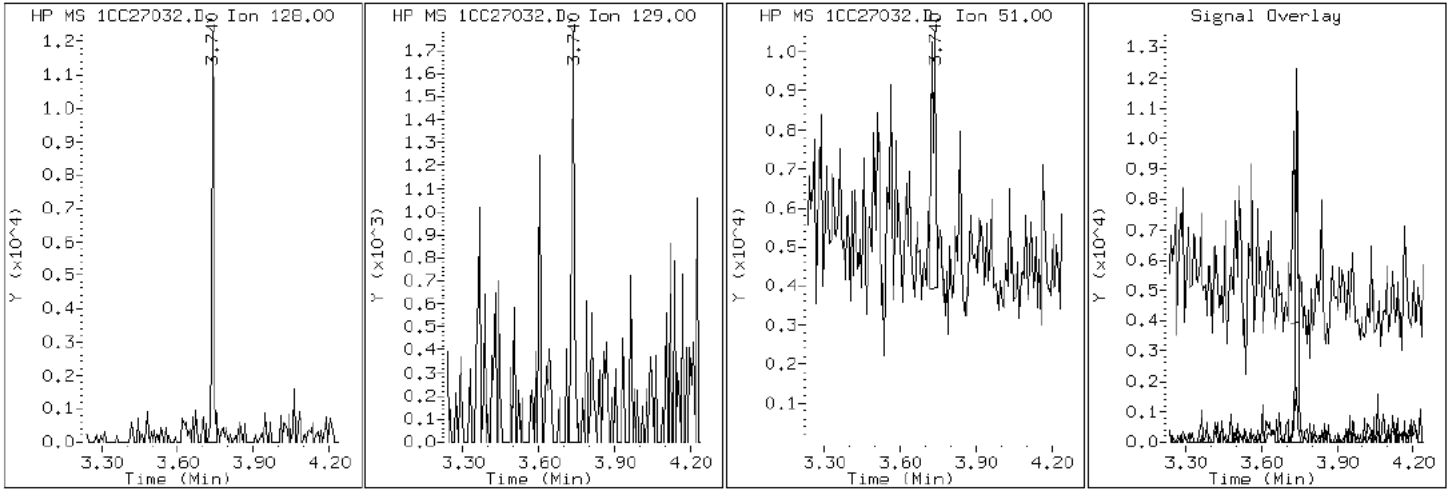
Client ID: CV1035B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-20-a

Operator: SCC

2 Naphthalene



Data File: 1CC27032.D

Date: 27-MAR-2013 19:39

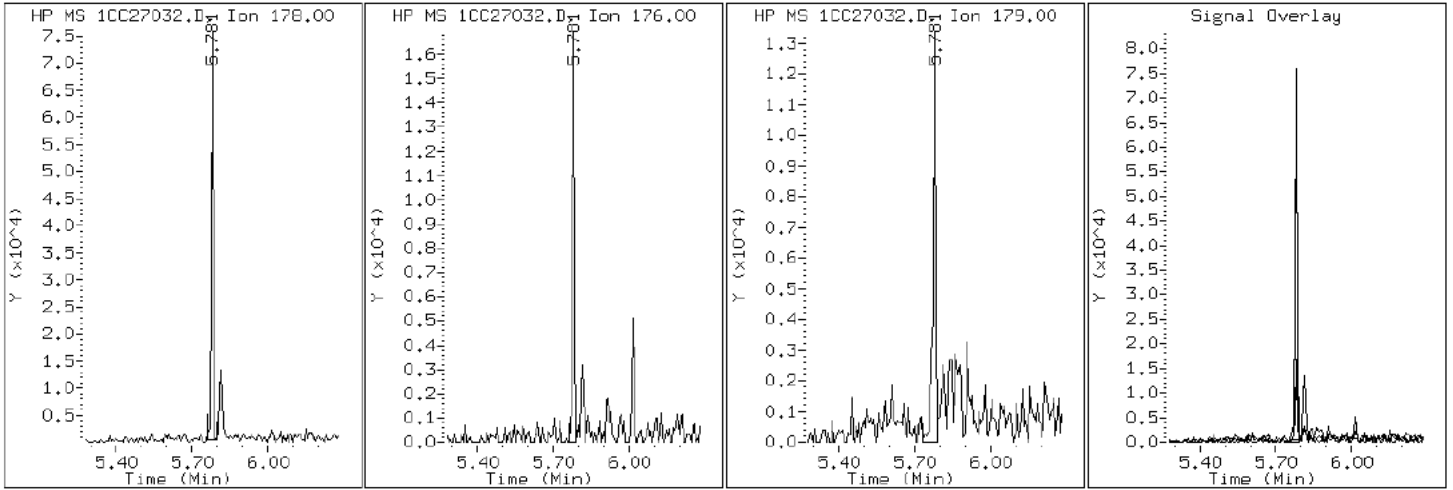
Client ID: CV1035B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-20-a

Operator: SCC

11 Phenanthrene



Data File: 1CC27032.D

Date: 27-MAR-2013 19:39

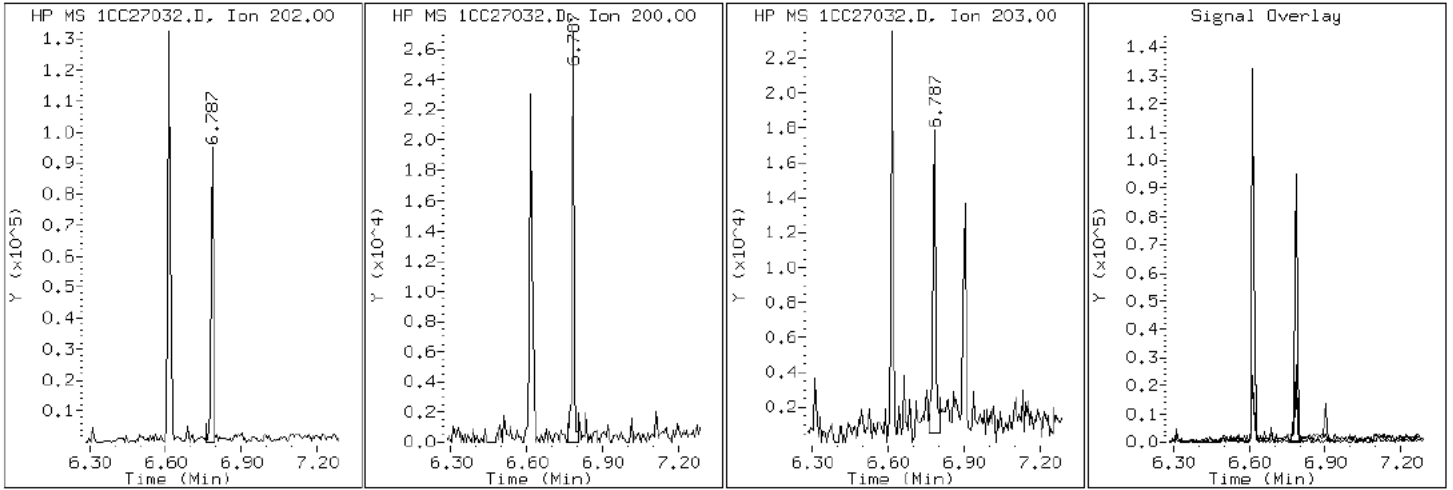
Client ID: CV1035B-CS

Instrument: BSMC5973.i

Sample Info: 680-88420-a-20-a

Operator: SCC

16 Pyrene

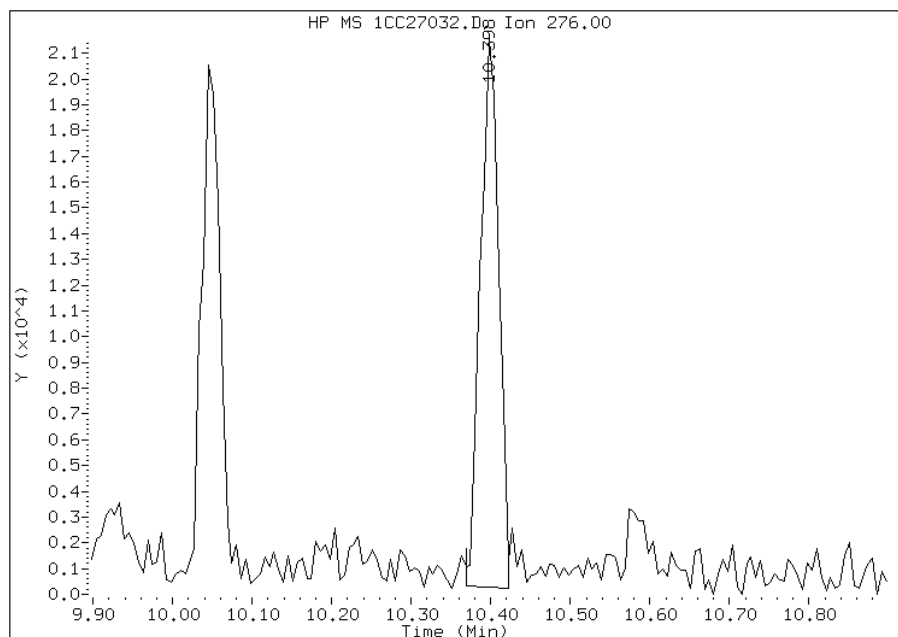


# Manual Integration Report

Data File: 1CC27032.D  
Inj. Date and Time: 27-MAR-2013 19:39  
Instrument ID: BSMC5973.i  
Client ID: CV1035B-CS  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 03/28/2013

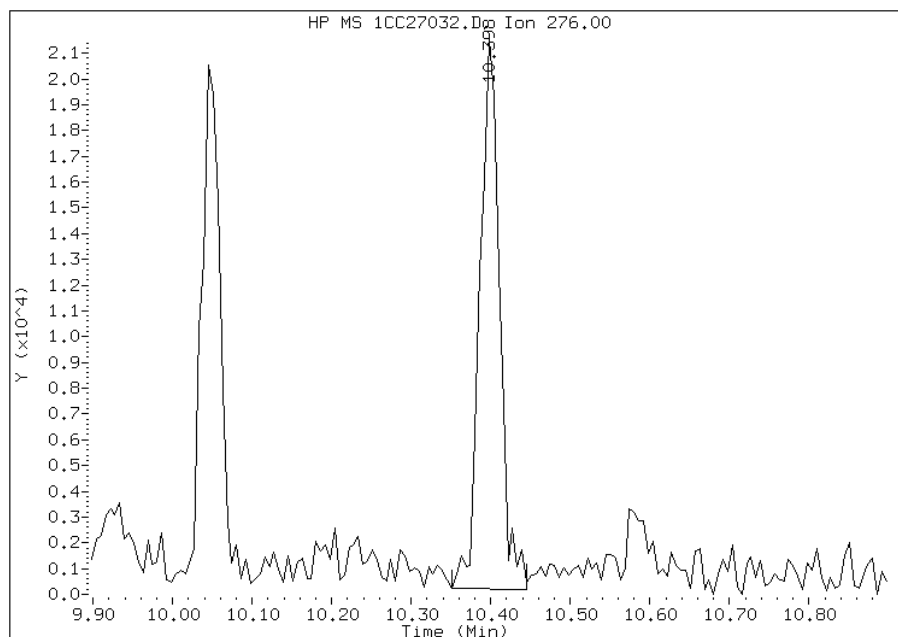
## Processing Integration Results

RT: 10.40  
Response: 34079  
Amount: 1  
Conc: 393



## Manual Integration Results

RT: 10.40  
Response: 36690  
Amount: 1  
Conc: 423



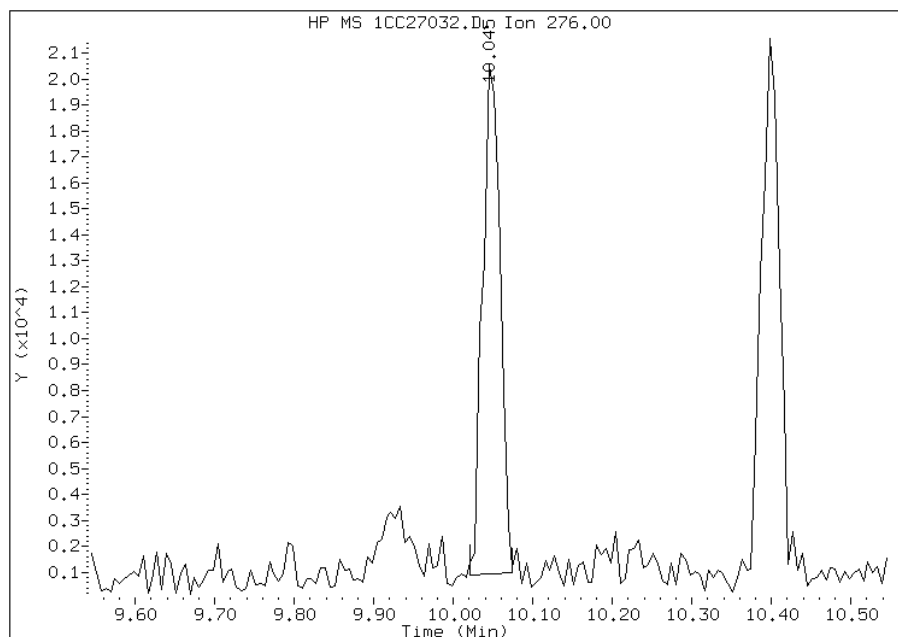
Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 12:11  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CC27032.D  
Inj. Date and Time: 27-MAR-2013 19:39  
Instrument ID: BSMC5973.i  
Client ID: CV1035B-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/28/2013

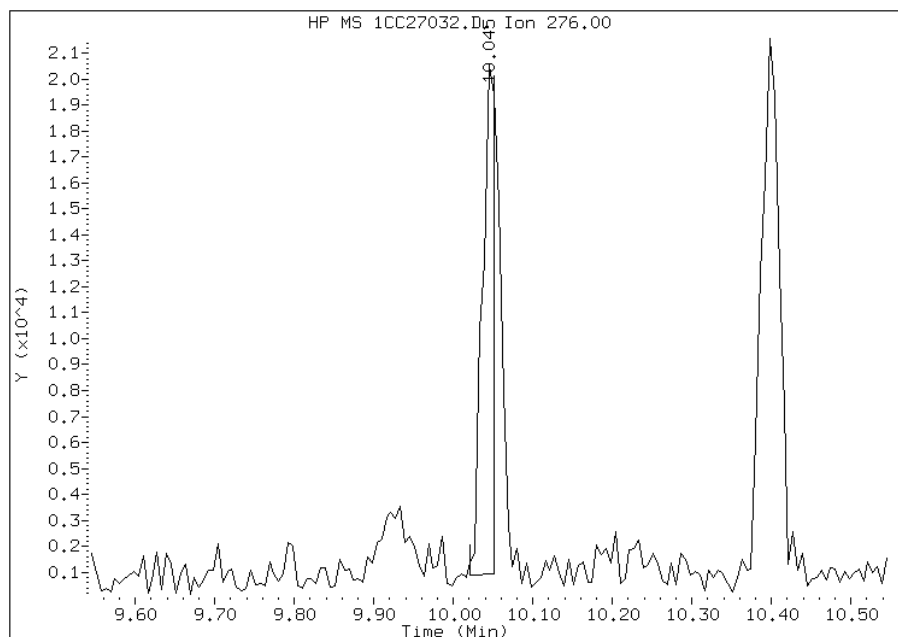
## Processing Integration Results

RT: 10.05  
Response: 29724  
Amount: 1  
Conc: 359



## Manual Integration Results

RT: 10.05  
Response: 21483  
Amount: 1  
Conc: 259



Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 12:11  
Manual Integration Reason: Split Peak



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

Lab Name: TestAmerica Tampa Job No.: 680-88420-1 Analy Batch No.: 135466

SDG No.: 68088420-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2013 12:54 Calibration End Date: 03/15/2013 14:25 Calibration ID: 2833

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-135466/4	1AC15004.D
Level 2	IC 660-135466/5	1AC15005.D
Level 3	IC 660-135466/6	1AC15006.D
Level 4	IC 660-135466/7	1AC15007.D
Level 5	ICIS 660-135466/3	1AC15003.D
Level 6	IC 660-135466/8	1AC15008.D
Level 7	IC 660-135466/9	1AC15009.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	0.9182 0.9843	0.8682 1.0304	0.8414	0.9130	0.9134	Ave		0.9241			0.0000	7.0	15.0				
2-Methylnaphthalene	0.3173 0.5626	0.3880 0.5601	0.4398	0.4970	0.4939	Lin	0.0220	0.5669			0.0000			0.9977		0.9900	
1-Methylnaphthalene	0.4777 0.5845	0.5531 0.6040	0.4506	0.5167	0.5332	Ave		0.5314			0.0000	10.4	15.0				
Acenaphthylene	1.0811 1.6297	1.1761 1.8722	1.3170	1.5059	1.4858	Qua	0.0041	0.7073	-0.075		0.0000			0.9997		0.9900	
Acenaphthene	0.5482 0.9648	0.7151 1.1119	0.7239	0.7842	0.8623	Qua	0.0105	1.2107	-0.231		0.0000			0.9995		0.9900	
Fluorene	0.9196 1.1621	0.7108 1.4041	0.9794	0.9875	1.0362	Qua	0.0051	1.0243	-0.180		0.0000			0.9997		0.9900	
Phenanthrene	0.8931 1.0963	0.9370 1.1892	0.9513	1.0358	0.9939	Ave		1.0138			0.0000	10.1	15.0				
Anthracene	0.7882 1.0781	0.9144 1.1902	0.9143	1.0125	0.9832	Ave		0.9830			0.0000	13.1	15.0				
Carbazole	0.9171 0.8644	0.8482 1.0183	0.7772	0.8200	0.7858	Ave		0.8616			0.0000	9.8	15.0				
Fluoranthene	0.8759 1.0892	0.9263 1.2393	0.9139	1.0041	0.9662	Ave		1.0021			0.0000	12.5	15.0				
Pyrene	1.1506 1.2084	1.1188 1.2358	1.0383	1.1546	1.1218	Ave		1.1469			0.0000	5.6	15.0				
Benzo[a]anthracene	2.3322 1.1494	1.0618 1.1597	1.0397	1.1448	1.1388	Lin	0.0042	1.1599			0.0000			0.9998		0.9900	
Chrysene	0.9519 1.0963	1.1293 1.0909	0.9784	1.0416	0.9636	Ave		1.0360			0.0000	6.9	15.0				
Benzo[b]fluoranthene	0.5952 0.9716	0.9206 1.1134	0.8928	0.9147	0.9663	Lin	0.0301	1.1022			0.0000			0.9937		0.9900	

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.: 680-88420-1 Analy Batch No.: 135466

SDG No.: 68088420-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2013 12:54 Calibration End Date: 03/15/2013 14:25 Calibration ID: 2833

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	1.2698 1.1415	0.8332 1.1801	0.9701	1.1224	1.0355	Ave		1.0790			0.0000	13.5		15.0			
Benzo[a]pyrene	0.9834 0.9683	0.8745 1.0399	0.8429	0.9297	0.9323	Ave		0.9387			0.0000	7.1		15.0			
Indeno[1,2,3-cd]pyrene	0.7699 0.8966	0.7718 1.0634	0.7357	0.8848	0.8069	Ave		0.8470			0.0000	13.3		15.0			
Dibenz(a,h)anthracene	0.7891 0.8904	0.7149 1.0350	0.7901	0.8091	0.8477	Ave		0.8395			0.0000	12.1		15.0			
Benzo[g,h,i]perylene	0.9244 0.8344	0.8719 0.9257	0.7802	0.8324	0.7992	Ave		0.8526			0.0000	6.7		15.0			
o-Terphenyl	0.6407 0.6114	0.4486 0.7113	0.5134	0.5554	0.5318	Qua	0.0019	1.9448	-0.611		0.0000				0.9992		0.9900

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.: 680-88420-1 Analy Batch No.: 135466

SDG No.: 68088420-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2013 12:54 Calibration End Date: 03/15/2013 14:25 Calibration ID: 2833

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-135466/4	1AC15004.D
Level 2	IC 660-135466/5	1AC15005.D
Level 3	IC 660-135466/6	1AC15006.D
Level 4	IC 660-135466/7	1AC15007.D
Level 5	ICIS 660-135466/3	1AC15003.D
Level 6	IC 660-135466/8	1AC15008.D
Level 7	IC 660-135466/9	1AC15009.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	2130 303622	9402 536733	48636	91487	212955	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Lin	736 173551	4202 291739	25420	49806	115161	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	1108 180305	5990 314615	26047	51777	124303	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Qua	1761 319635	9023 568020	45490	91795	222508	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Qua	893 189235	5486 337349	25006	47803	129142	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Qua	1498 227926	5453 425998	33830	60194	155177	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	1974 303905	9354 493056	49383	93111	231718	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	1742 298885	9128 493502	47464	91019	229236	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	2027 239621	8467 422232	40347	73717	183202	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	1936 301939	9247 513840	47441	90262	225265	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	2259 323353	9768 535158	49430	97774	238669	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Lin	4579 307563	9270 502221	49496	96948	242288	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	1869 293362	9859 472426	46576	88211	205028	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Lin	1363 285512	9078 523197	49338	86931	204244	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	2908 335436	8216 554548	53608	106676	218874	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.: 680-88420-1 Analy Batch No.: 135466

SDG No.: 68088420-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2013 12:54 Calibration End Date: 03/15/2013 14:25 Calibration ID: 2833

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	2252 284542	8623 488657	46577	88362	197061	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	1763 263461	7610 499702	40658	84090	170555	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	1807 261651	7049 486347	43660	76903	179169	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	2117 245198	8597 434983	43115	79114	168914	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Qua	1416 169501	4478 294944	26653	49925	123980	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Qua = Quadratic ISTD

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15003.D  
 Lab Smp Id: ICIS-1512372  
 Inj Date : 15-MAR-2013 12:54  
 Operator : SCC  
 Smp Info : ICIS-1512372  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m  
 Meth Date : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D  
 Als bottle: 3 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	
* 1 Naphthalene-d8	136		2.303	2.303	(1.000)	466294	40.0000	
* 6 Acenaphthene-d10	164		3.323	3.323	(1.000)	299519	40.0000	
* 10 Phenanthrene-d10	188		4.247	4.247	(1.000)	466296	40.0000	
\$ 14 o-Terphenyl	230		4.525	4.525	(1.065)	123980	20.0000	18.5533
* 18 Chrysene-d12	240		6.245	6.245	(1.000)	425528	40.0000	
* 23 Perylene-d12	264		7.330	7.330	(1.000)	422731	40.0000	
2 Naphthalene	128		2.313	2.313	(1.005)	212955	20.0000	19.7675
3 2-Methylnaphthalene	141		2.714	2.714	(1.179)	115161	20.0000	21.2202
4 1-Methylnaphthalene	142		2.773	2.773	(1.204)	124303	20.0000	20.0661
5 Acenaphthylene	152		3.238	3.238	(0.974)	222508	20.0000	20.6609
7 Acenaphthene	154		3.344	3.344	(1.006)	129142	20.0000	21.1411
9 Fluorene	166		3.649	3.649	(1.098)	155177	20.0000	20.1489
11 Phenanthrene	178		4.263	4.263	(1.004)	231718	20.0000	19.6069
12 Anthracene	178		4.295	4.295	(1.011)	229236	20.0000	20.0044
13 Carbazole	167		4.456	4.456	(1.049)	183202	20.0000	18.2403
15 Fluoranthene	202		5.113	5.113	(1.204)	225265	20.0000	19.2828
16 Pyrene	202		5.278	5.278	(0.845)	238669	20.0000	19.5616
17 Benzo(a)anthracene	228		6.235	6.235	(0.998)	242288	20.0000	19.7327
19 Chrysene	228		6.261	6.261	(1.003)	205028	20.0000	18.6028
20 Benzo(b)fluoranthene	252		7.052	7.052	(0.962)	204244	20.0000	21.2219
21 Benzo(k)fluoranthene	252		7.073	7.073	(0.965)	218874	20.0000	19.1947
22 Benzo(a)pyrene	252		7.282	7.282	(0.993)	197061	20.0000	19.8637
24 Indeno(1,2,3-cd)pyrene	276		8.035	8.035	(1.096)	170555	20.0000	19.0533(M)
25 Dibenzo(a,h)anthracene	278		8.045	8.045	(1.098)	179169	20.0000	20.1955
26 Benzo(g,h,i)perylene	276		8.222	8.222	(1.122)	168914	20.0000	18.7463

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AC15003.D

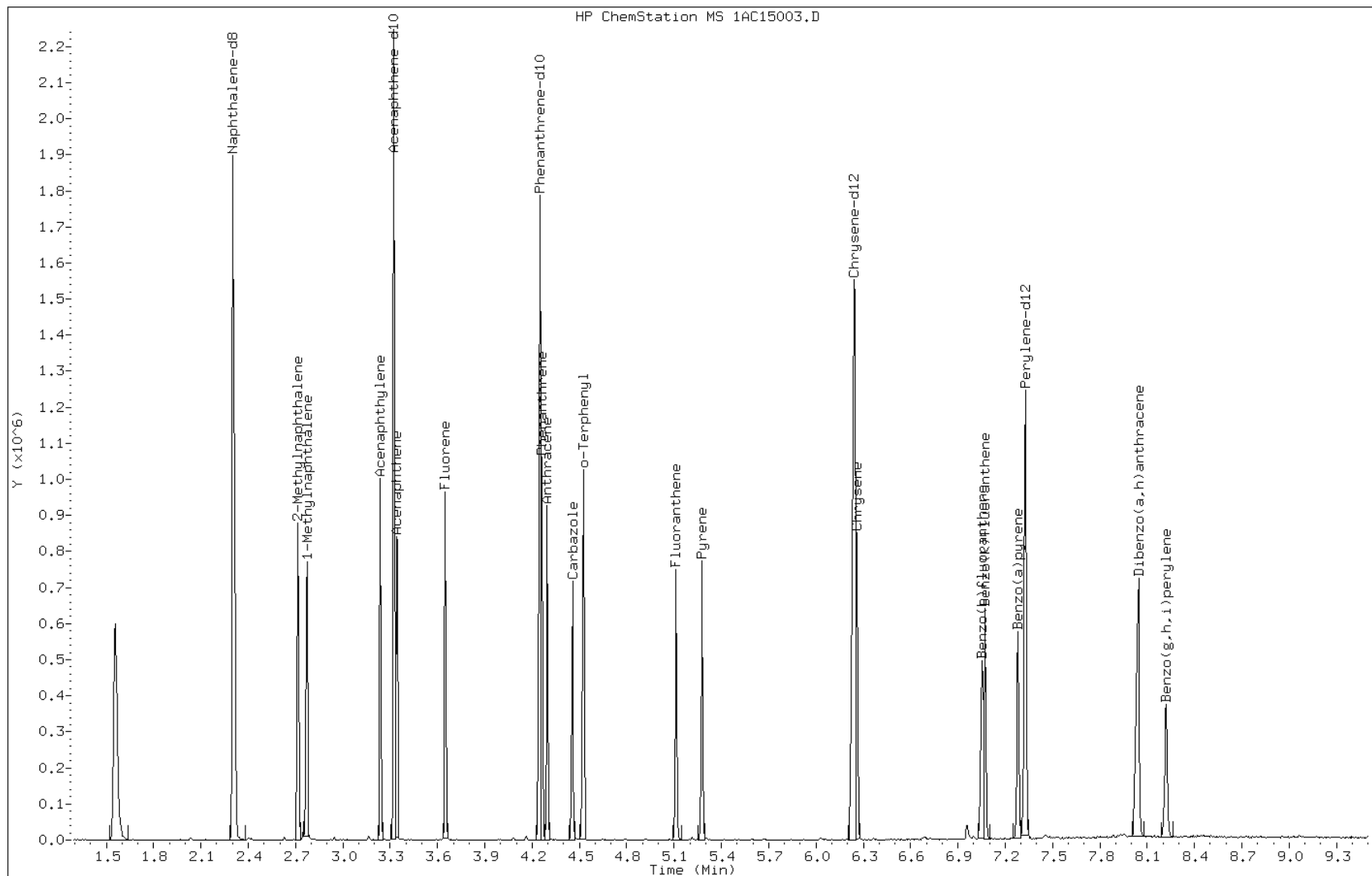
Date: 15-MAR-2013 12:54

Client ID:

Instrument: BSMA5973.i

Sample Info: ICIS-1512372

Operator: SCC

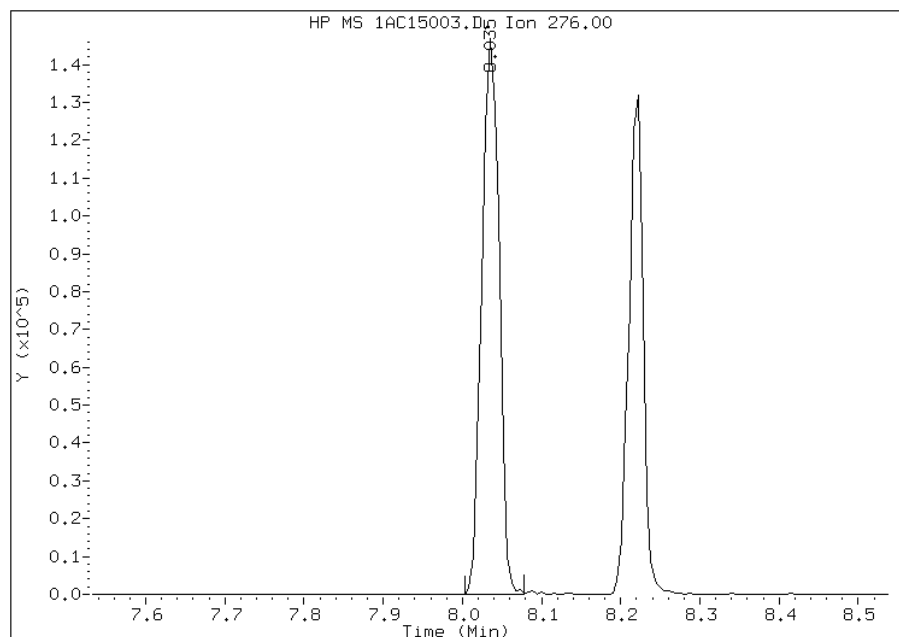


# Manual Integration Report

Data File: 1AC15003.D  
Inj. Date and Time: 15-MAR-2013 12:54  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/15/2013

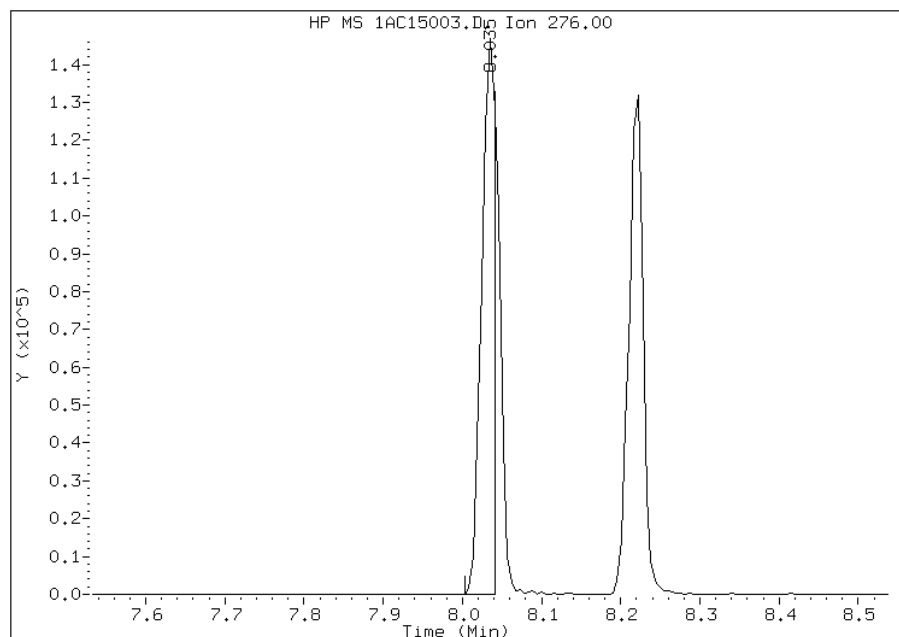
## Processing Integration Results

RT: 8.04  
Response: 220748  
Amount: 25  
Conc: 25



## Manual Integration Results

RT: 8.04  
Response: 170555  
Amount: 19  
Conc: 19



Manually Integrated By: cantins  
Modification Date: 15-Mar-2013 14:45  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15004.D  
 Lab Smp Id: IC-1512358  
 Inj Date : 15-MAR-2013 13:09  
 Operator : SCC  
 Smp Info : IC-1512358  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m  
 Meth Date : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD  
 Cal Date : 15-MAR-2013 12:54 Cal File: 1AC15003.D  
 Als bottle: 4 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	=====	136	2.306	2.303	(1.000)	463929	40.0000	
* 6 Acenaphthene-d10	=====	164	3.321	3.323	(1.000)	325790	40.0000	
* 10 Phenanthrene-d10	=====	188	4.245	4.247	(1.000)	442045	40.0000	
\$ 14 o-Terphenyl	=====	230	4.517	4.525	(1.064)	1416	0.20000	0.2235
* 18 Chrysene-d12	=====	240	6.243	6.245	(1.000)	392679	40.0000	
* 23 Perylene-d12	=====	264	7.327	7.330	(1.000)	458007	40.0000	
2 Naphthalene	=====	128	2.311	2.313	(1.002)	2130	0.20000	0.1987
3 2-Methylnaphthalene	=====	141	2.717	2.714	(1.178)	736	0.20000	0.1363(Q)
4 1-Methylnaphthalene	=====	142	2.770	2.773	(1.202)	1108	0.20000	0.1797
5 Acenaphthylene	=====	152	3.235	3.238	(0.974)	1761	0.20000	0.1503
7 Acenaphthene	=====	154	3.337	3.344	(1.005)	893	0.20000	0.1344
9 Fluorene	=====	166	3.646	3.649	(1.098)	1498	0.20000	0.1788(T)
11 Phenanthrene	=====	178	4.261	4.263	(1.004)	1974	0.20000	0.1761
12 Anthracene	=====	178	4.298	4.295	(1.013)	1742	0.20000	0.1603
13 Carbazole	=====	167	4.453	4.456	(1.049)	2027	0.20000	0.2128(T)
15 Fluoranthene	=====	202	5.110	5.113	(1.204)	1936	0.20000	0.1748
16 Pyrene	=====	202	5.276	5.278	(0.845)	2259	0.20000	0.2006
17 Benzo(a)anthracene	=====	228	6.237	6.235	(0.999)	4579	0.20000	0.4041
19 Chrysene	=====	228	6.253	6.261	(1.002)	1869	0.20000	0.1837
20 Benzo(b)fluoranthene	=====	252	7.049	7.052	(0.962)	1363	0.20000	0.1307
21 Benzo(k)fluoranthene	=====	252	7.065	7.073	(0.964)	2908	0.20000	0.2353
22 Benzo(a)pyrene	=====	252	7.274	7.282	(0.993)	2252	0.20000	0.2095
24 Indeno(1,2,3-cd)pyrene	=====	276	8.027	8.035	(1.096)	1763	0.20000	0.1817(M)
25 Dibenzo(a,h)anthracene	=====	278	8.032	8.045	(1.096)	1807	0.20000	0.1879
26 Benzo(g,h,i)perylene	=====	276	8.214	8.222	(1.121)	2117	0.20000	0.2168

QC Flag Legend

- T - Target compound detected outside RT window.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.



Data File: 1AC15004.D

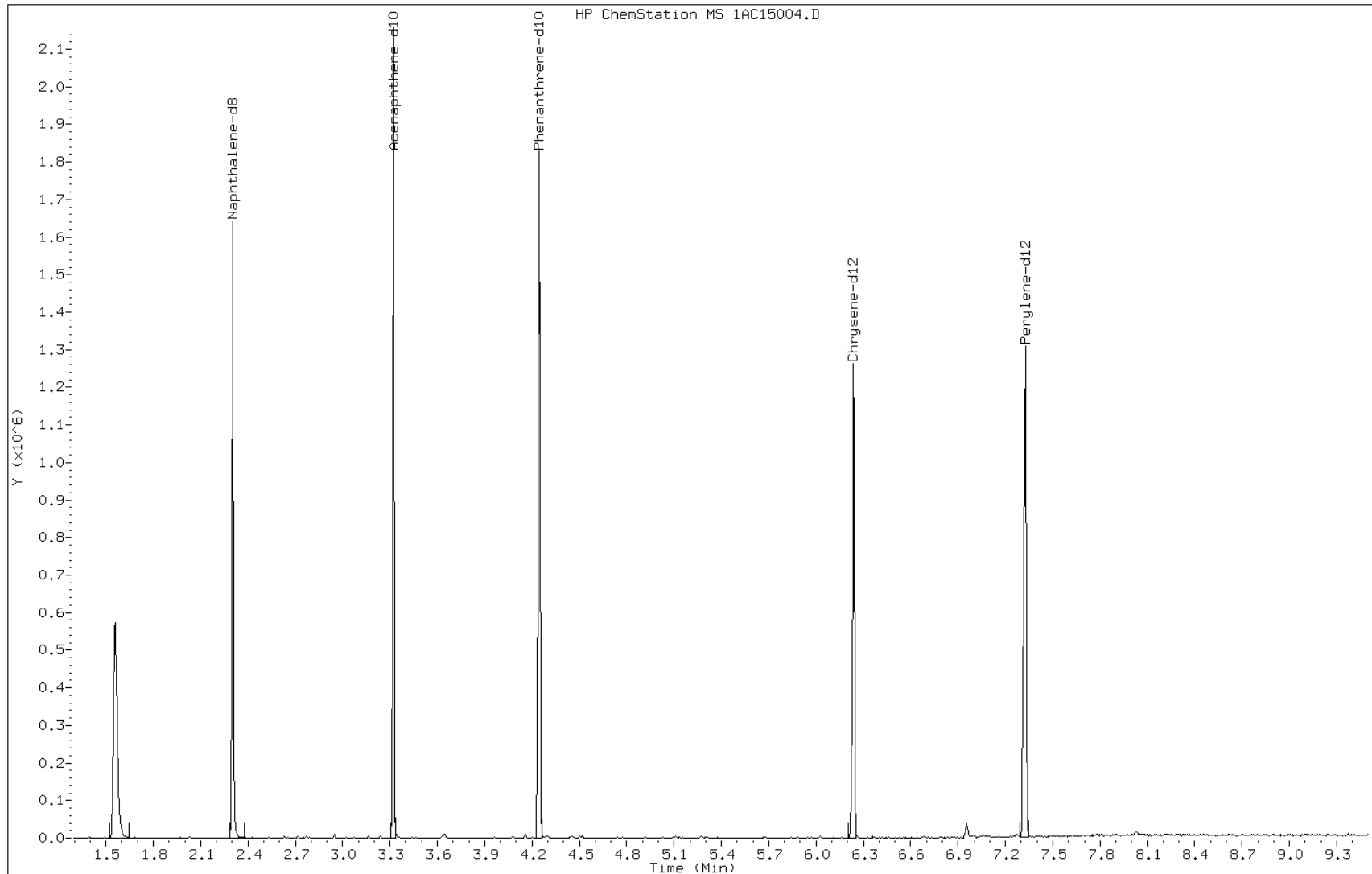
Date: 15-MAR-2013 13:09

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1512358

Operator: SCC

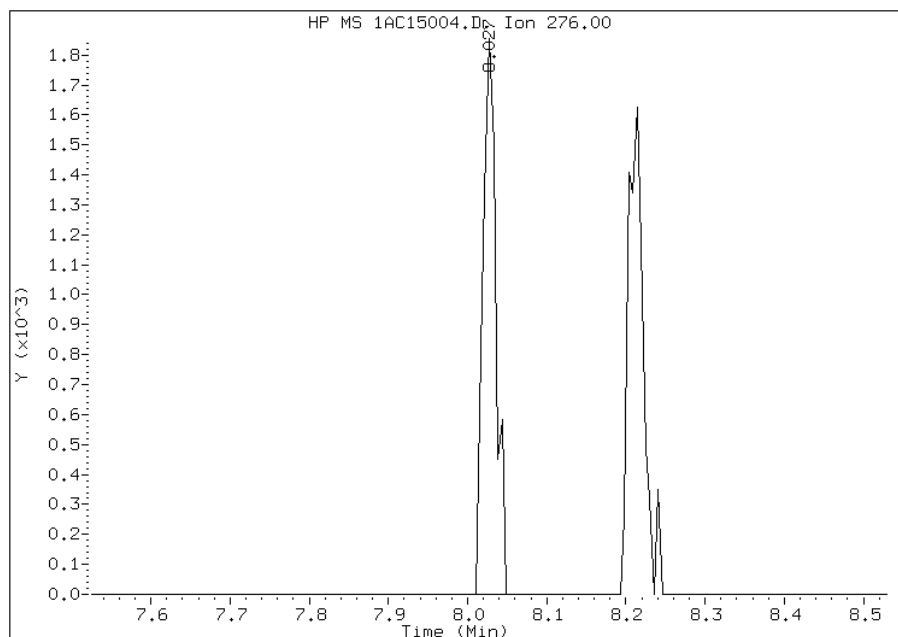


# Manual Integration Report

Data File: 1AC15004.D  
Inj. Date and Time: 15-MAR-2013 13:09  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/15/2013

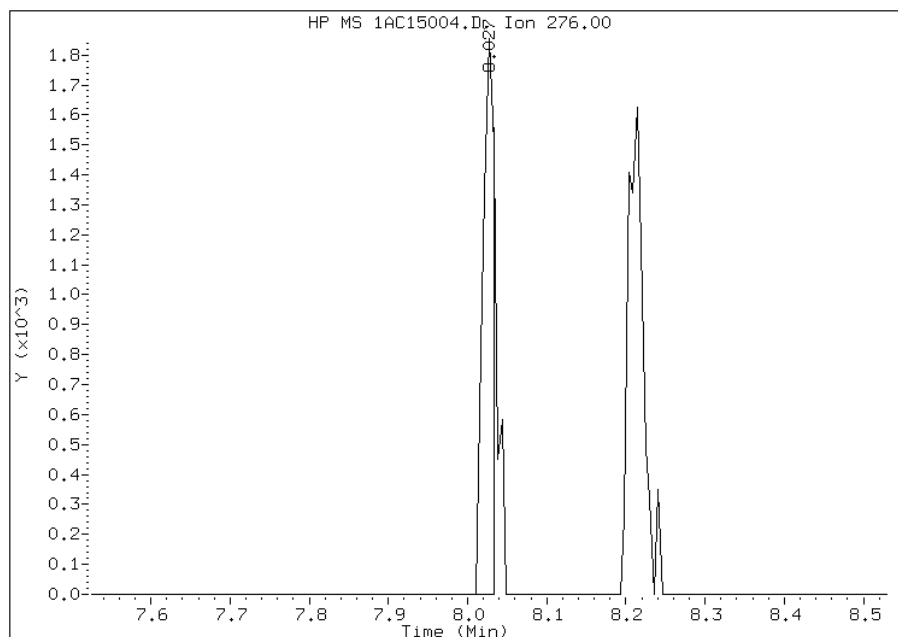
## Processing Integration Results

RT: 8.03  
Response: 2094  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 8.03  
Response: 1763  
Amount: 0  
Conc: 0



Manually Integrated By: cantins  
Modification Date: 15-Mar-2013 14:47  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15005.D  
 Lab Smp Id: IC-1512359  
 Inj Date : 15-MAR-2013 13:24  
 Operator : SCC  
 Smp Info : IC-1512359  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15005.D  
 Meth Date : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD  
 Cal Date : 15-MAR-2013 13:09 Cal File: 1AC15004.D  
 Als bottle: 5 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.304	2.303	(1.000)	433180	40.0000	
* 6 Acenaphthene-d10	164	3.324	3.323	(1.000)	306883	40.0000	
* 10 Phenanthrene-d10	188	4.248	4.247	(1.000)	399304	40.0000	
\$ 14 o-Terphenyl	230	4.521	4.525	(1.064)	4478	1.00000	0.7825
* 18 Chrysene-d12	240	6.241	6.245	(1.000)	349216	40.0000	
* 23 Perylene-d12	264	7.325	7.330	(1.000)	394419	40.0000	
2 Naphthalene	128	2.314	2.313	(1.005)	9402	1.00000	0.9394
3 2-Methylnaphthalene	141	2.715	2.714	(1.179)	4202	1.00000	0.8334
4 1-Methylnaphthalene	142	2.768	2.773	(1.202)	5990	1.00000	1.0408
5 Acenaphthylene	152	3.239	3.238	(0.974)	9023	1.00000	0.8177
7 Acenaphthene	154	3.340	3.344	(1.005)	5486	1.00000	0.8765
9 Fluorene	166	3.650	3.649	(1.098)	5453	1.00000	0.6910
11 Phenanthrene	178	4.259	4.263	(1.002)	9354	1.00000	0.9242
12 Anthracene	178	4.291	4.295	(1.010)	9128	1.00000	0.9302
13 Carbazole	167	4.451	4.456	(1.048)	8467	1.00000	0.9844
15 Fluoranthene	202	5.114	5.113	(1.204)	9247	1.00000	0.9243
16 Pyrene	202	5.274	5.278	(0.845)	9768	1.00000	0.9755
17 Benzo(a)anthracene	228	6.235	6.235	(0.999)	9270	1.00000	0.9199
19 Chrysene	228	6.252	6.261	(1.002)	9859	1.00000	1.0900
20 Benzo(b)fluoranthene	252	7.048	7.052	(0.962)	9078	1.00000	1.0109
21 Benzo(k)fluoranthene	252	7.064	7.073	(0.964)	8216	1.00000	0.7722
22 Benzo(a)pyrene	252	7.277	7.282	(0.993)	8623	1.00000	0.9315
24 Indeno(1,2,3-cd)pyrene	276	8.025	8.035	(1.096)	7610	1.00000	0.9111(M)
25 Dibenzo(a,h)anthracene	278	8.030	8.045	(1.096)	7049	1.00000	0.8515
26 Benzo(g,h,i)perylene	276	8.212	8.222	(1.121)	8597	1.00000	1.0225

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AC15005.D

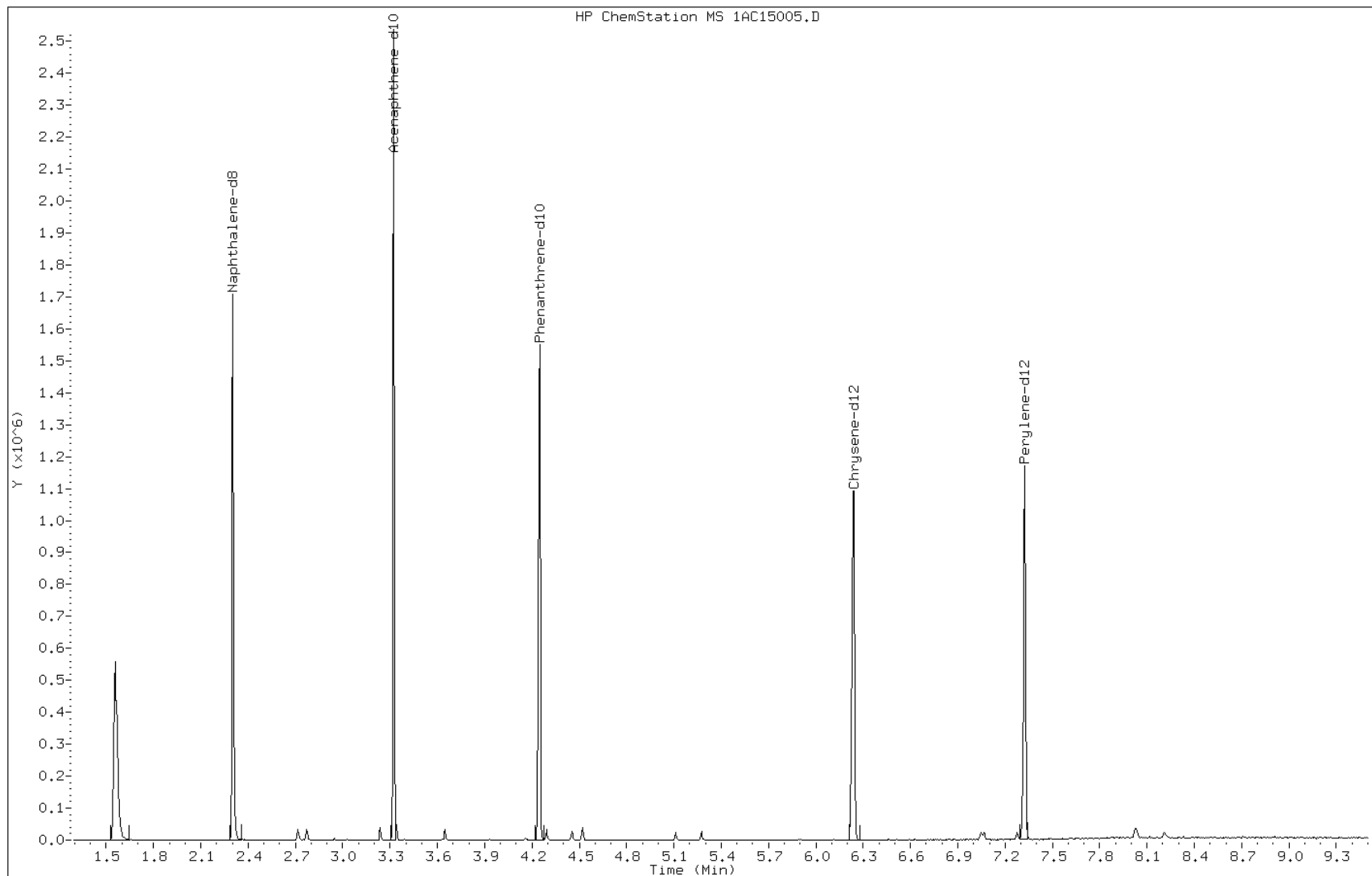
Date: 15-MAR-2013 13:24

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1512359

Operator: SCC

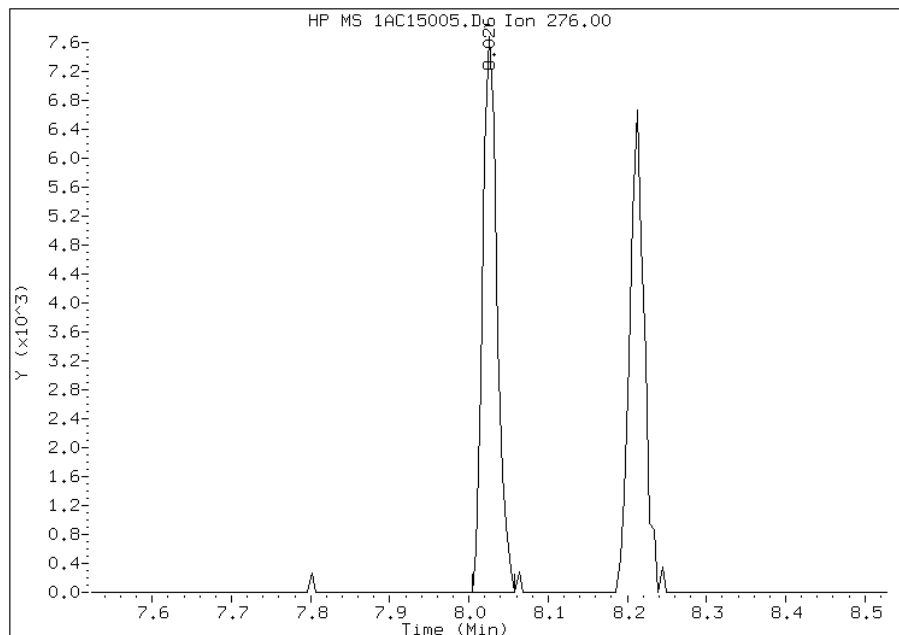


Manual Integration Report

Data File: 1AC15005.D  
Inj. Date and Time: 15-MAR-2013 13:24  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/15/2013

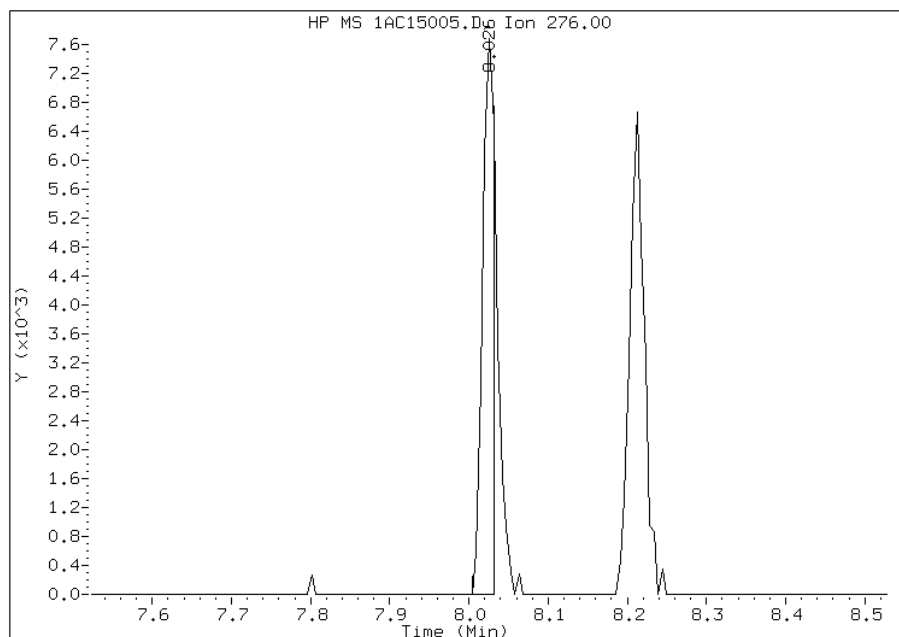
Processing Integration Results

RT: 8.03  
Response: 9630  
Amount: 1  
Conc: 1



Manual Integration Results

RT: 8.03  
Response: 7610  
Amount: 1  
Conc: 1



Manually Integrated By: cantins  
Modification Date: 15-Mar-2013 14:48  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15006.D  
 Lab Smp Id: IC-1512360  
 Inj Date : 15-MAR-2013 13:39  
 Operator : SCC  
 Smp Info : IC-1512360  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m  
 Meth Date : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD  
 Cal Date : 15-MAR-2013 13:24 Cal File: 1AC15005.D  
 Als bottle: 6 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT	SIG	AMOUNTS					
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136		2.301	2.303	(1.000)	462418	40.0000	
* 6 Acenaphthene-d10	164		3.322	3.323	(1.000)	276334	40.0000	
* 10 Phenanthrene-d10	188		4.246	4.247	(1.000)	415283	40.0000	
\$ 14 o-Terphenyl	230		4.523	4.525	(1.065)	26653	5.00000	4.4785
* 18 Chrysene-d12	240		6.238	6.245	(1.000)	380837	40.0000	
* 23 Perylene-d12	264		7.328	7.330	(1.000)	442088	40.0000	
2 Naphthalene	128		2.312	2.313	(1.005)	48636	5.00000	4.5524
3 2-Methylnaphthalene	141		2.713	2.714	(1.179)	25420	5.00000	4.7233
4 1-Methylnaphthalene	142		2.771	2.773	(1.204)	26047	5.00000	4.2399
5 Acenaphthylene	152		3.236	3.238	(0.974)	45490	5.00000	4.5783
7 Acenaphthene	154		3.338	3.344	(1.005)	25006	5.00000	4.4370
9 Fluorene	166		3.647	3.649	(1.098)	33830	5.00000	4.7612
11 Phenanthrene	178		4.262	4.263	(1.004)	49383	5.00000	4.6918
12 Anthracene	178		4.294	4.295	(1.011)	47464	5.00000	4.6507
13 Carbazole	167		4.449	4.456	(1.048)	40347	5.00000	4.5105
15 Fluoranthene	202		5.111	5.113	(1.204)	47441	5.00000	4.5598
16 Pyrene	202		5.271	5.278	(0.845)	49430	5.00000	4.5267
17 Benzo(a)anthracene	228		6.233	6.235	(0.999)	49496	5.00000	4.5041
19 Chrysene	228		6.254	6.261	(1.003)	46576	5.00000	4.7219
20 Benzo(b)fluoranthene	252		7.050	7.052	(0.962)	49338	5.00000	4.9020
21 Benzo(k)fluoranthene	252		7.066	7.073	(0.964)	53608	5.00000	4.4954
22 Benzo(a)pyrene	252		7.275	7.282	(0.993)	46577	5.00000	4.4893
24 Indeno(1,2,3-cd)pyrene	276		8.023	8.035	(1.095)	40658	5.00000	4.3431(M)
25 Dibenzo(a,h)anthracene	278		8.033	8.045	(1.096)	43660	5.00000	4.7057
26 Benzo(g,h,i)perylene	276		8.210	8.222	(1.120)	43115	5.00000	4.5754

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AC15006.D

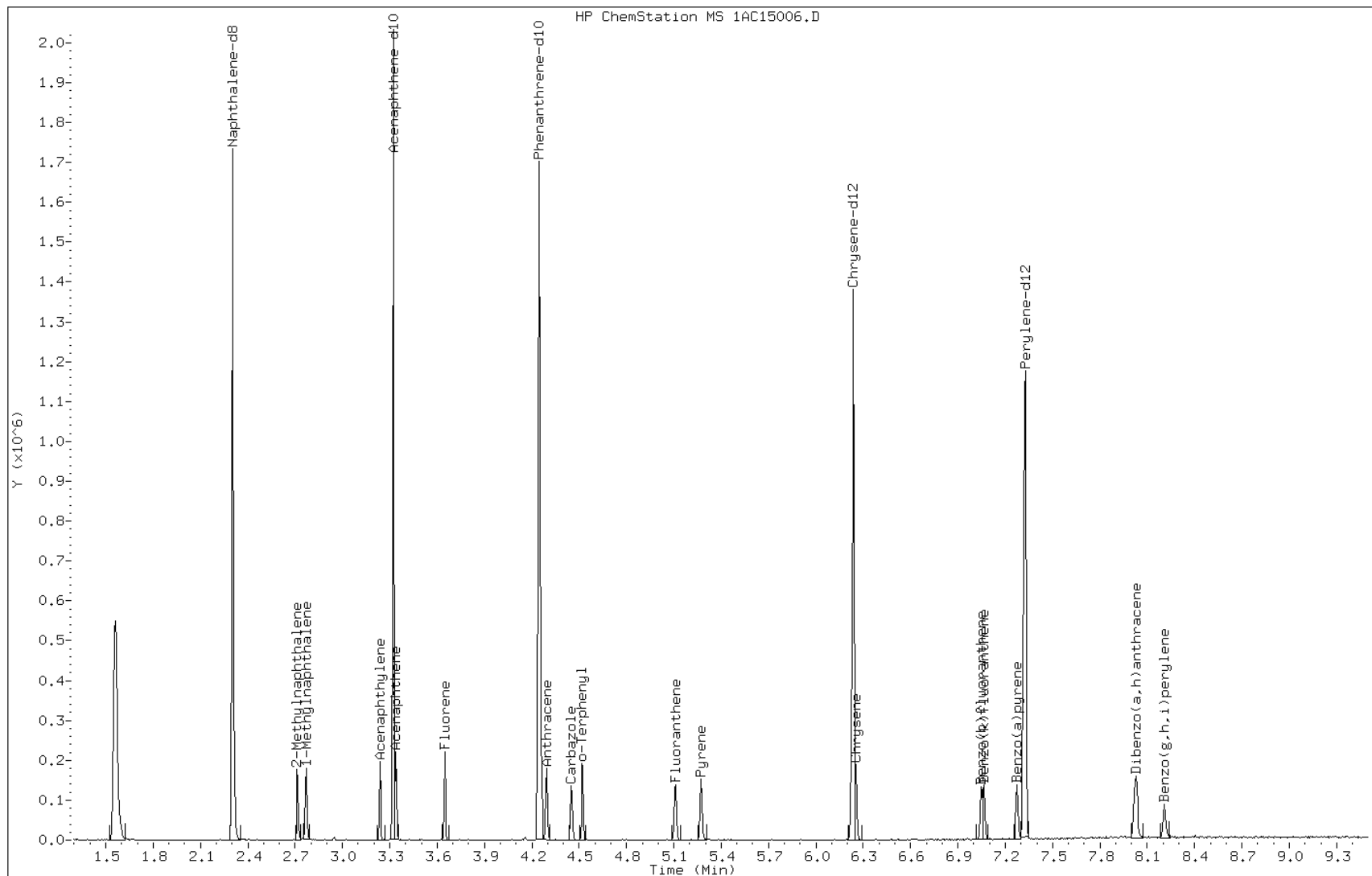
Date: 15-MAR-2013 13:39

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1512360

Operator: SCC

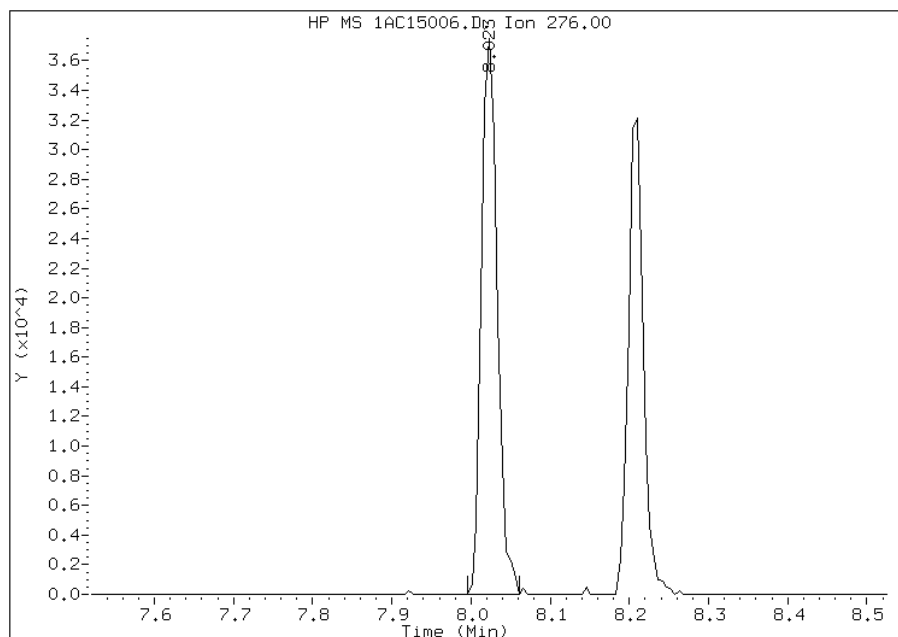


# Manual Integration Report

Data File: 1AC15006.D  
Inj. Date and Time: 15-MAR-2013 13:39  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/15/2013

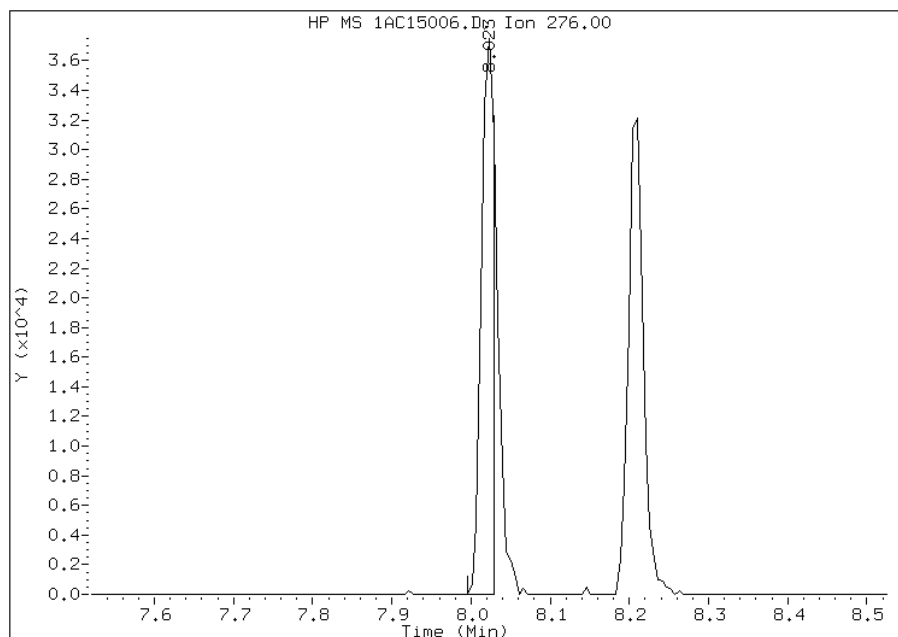
## Processing Integration Results

RT: 8.02  
Response: 51555  
Amount: 5  
Conc: 5



## Manual Integration Results

RT: 8.02  
Response: 40658  
Amount: 4  
Conc: 4



Manually Integrated By: cantins  
Modification Date: 15-Mar-2013 14:48  
Manual Integration Reason: Split Peak



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15007.D  
 Lab Smp Id: IC-1512361  
 Inj Date : 15-MAR-2013 13:54  
 Operator : SCC  
 Smp Info : IC-1512361  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1A-bFASTPAHi-m.m  
 Meth Date : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD  
 Cal Date : 15-MAR-2013 13:39 Cal File: 1AC15006.D  
 Als bottle: 7 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT	SIG	AMOUNTS					ON-COL
			MASS	RT	EXP RT	REL RT	RESPONSE	
* 1 Naphthalene-d8	136		2.301	2.303	(1.000)	400821	40.0000	
* 6 Acenaphthene-d10	164		3.321	3.323	(1.000)	243827	40.0000	
* 10 Phenanthrene-d10	188		4.245	4.247	(1.000)	359580	40.0000	
\$ 14 o-Terphenyl	230		4.523	4.525	(1.065)	49925	10.0000	9.6884
* 18 Chrysene-d12	240		6.238	6.245	(1.000)	338736	40.0000	
* 23 Perylene-d12	264		7.322	7.330	(1.000)	380168	40.0000	
2 Naphthalene	128		2.312	2.313	(1.005)	91487	10.0000	9.8794
3 2-Methylnaphthalene	141		2.718	2.714	(1.181)	49806	10.0000	10.6766
4 1-Methylnaphthalene	142		2.771	2.773	(1.204)	51777	10.0000	9.7236
5 Acenaphthylene	152		3.236	3.238	(0.974)	91795	10.0000	10.4704
7 Acenaphthene	154		3.343	3.344	(1.006)	47803	10.0000	9.6130
9 Fluorene	166		3.647	3.649	(1.098)	60194	10.0000	9.6010
11 Phenanthrene	178		4.261	4.263	(1.004)	93111	10.0000	10.2168
12 Anthracene	178		4.293	4.295	(1.011)	91019	10.0000	10.3001
13 Carbazole	167		4.454	4.456	(1.049)	73717	10.0000	9.5178
15 Fluoranthene	202		5.111	5.113	(1.204)	90262	10.0000	10.0195
16 Pyrene	202		5.271	5.278	(0.845)	97774	10.0000	10.0669
17 Benzo(a)anthracene	228		6.227	6.235	(0.998)	96948	10.0000	9.9188
19 Chrysene	228		6.254	6.261	(1.003)	88211	10.0000	10.0543
20 Benzo(b)fluoranthene	252		7.050	7.052	(0.963)	86931	10.0000	10.0438
21 Benzo(k)fluoranthene	252		7.066	7.073	(0.965)	106676	10.0000	10.4026
22 Benzo(a)pyrene	252		7.274	7.282	(0.993)	88362	10.0000	9.9040
24 Indeno(1,2,3-cd)pyrene	276		8.028	8.035	(1.096)	84090	10.0000	10.4457(M)
25 Dibenzo(a,h)anthracene	278		8.033	8.045	(1.097)	76903	10.0000	9.6388
26 Benzo(g,h,i)perylene	276		8.209	8.222	(1.121)	79114	10.0000	9.7632

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AC15007.D

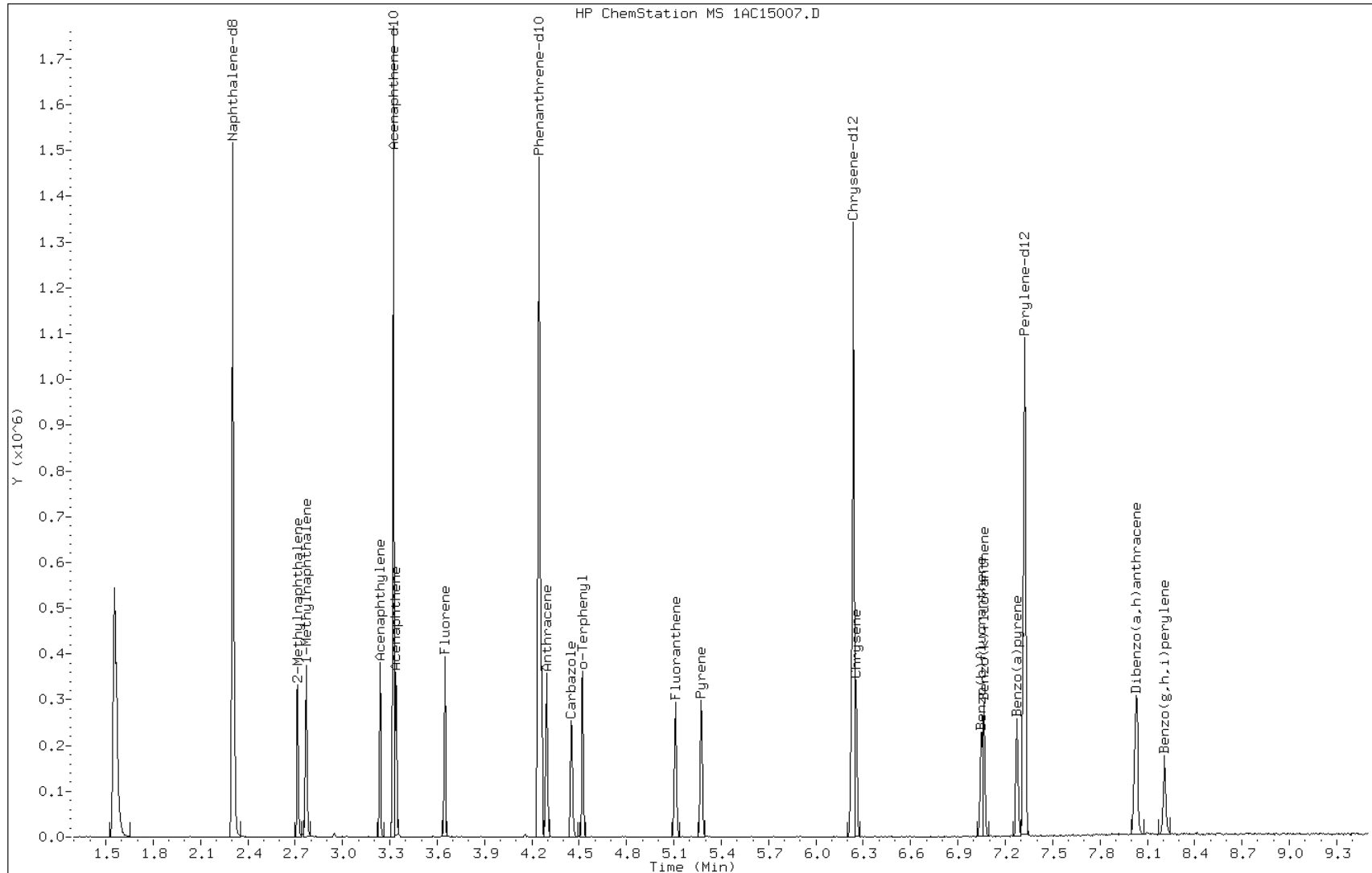
Date: 15-MAR-2013 13:54

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1512361

Operator: SCC

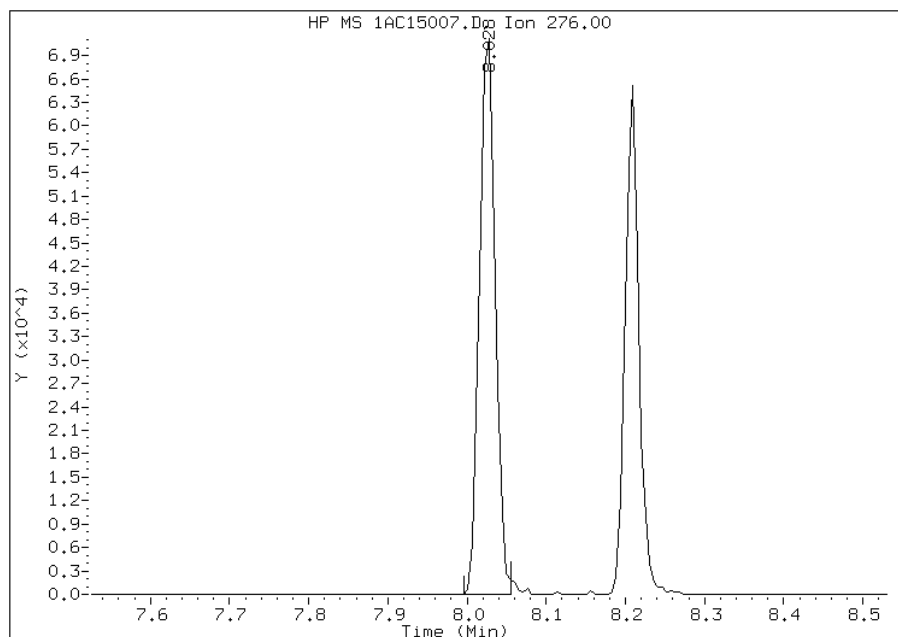


# Manual Integration Report

Data File: 1AC15007.D  
Inj. Date and Time: 15-MAR-2013 13:54  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/15/2013

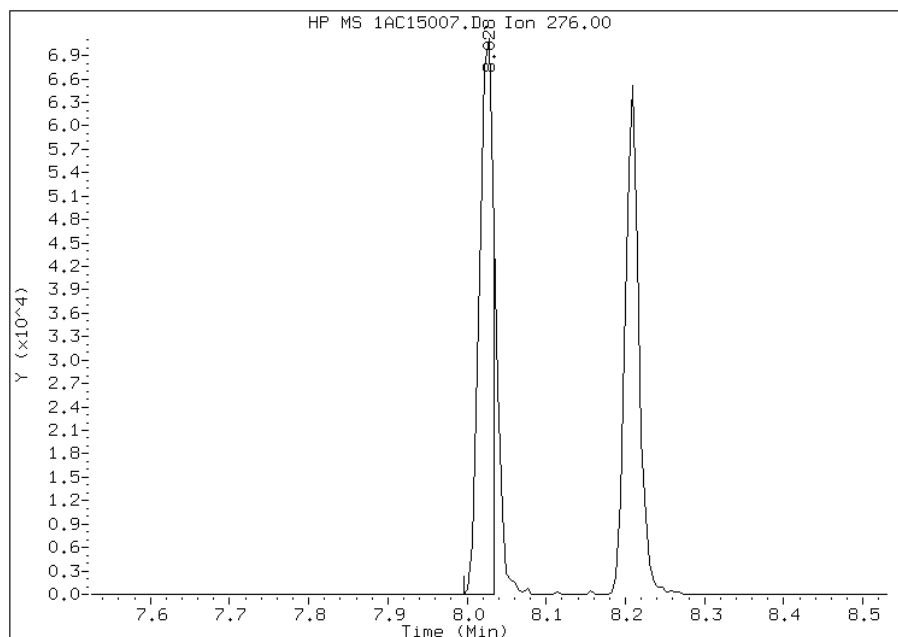
## Processing Integration Results

RT: 8.03  
Response: 97441  
Amount: 11  
Conc: 11



## Manual Integration Results

RT: 8.03  
Response: 84090  
Amount: 10  
Conc: 10



Manually Integrated By: cantins  
Modification Date: 15-Mar-2013 14:49  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15008.D  
 Lab Smp Id: IC-1512373  
 Inj Date : 15-MAR-2013 14:10  
 Operator : SCC  
 Smp Info : IC-1512373  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m  
 Meth Date : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD  
 Cal Date : 15-MAR-2013 13:54 Cal File: 1AC15007.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		2.302	2.303	(1.000)	411292	40.0000	
* 6 Acenaphthene-d10	164		3.323	3.323	(1.000)	261514	40.0000	
* 10 Phenanthrene-d10	188		4.247	4.247	(1.000)	369627	40.0000	
\$ 14 o-Terphenyl	230		4.525	4.525	(1.065)	169501	30.0000	31.9993
* 18 Chrysene-d12	240		6.239	6.245	(1.000)	356785	40.0000	
* 23 Perylene-d12	264		7.329	7.330	(1.000)	391800	40.0000	
2 Naphthalene	128		2.313	2.313	(1.005)	303622	30.0000	31.9527
3 2-Methylnaphthalene	141		2.719	2.714	(1.181)	173551	30.0000	36.2562
4 1-Methylnaphthalene	142		2.772	2.773	(1.204)	180305	30.0000	32.9988
5 Acenaphthylene	152		3.237	3.238	(0.974)	319635	30.0000	33.9929
7 Acenaphthene	154		3.344	3.344	(1.006)	189235	30.0000	35.4807
9 Fluorene	166		3.648	3.649	(1.098)	227926	30.0000	33.8959
11 Phenanthrene	178		4.263	4.263	(1.004)	303905	30.0000	32.4404
12 Anthracene	178		4.295	4.295	(1.011)	298885	30.0000	32.9038
13 Carbazole	167		4.455	4.456	(1.049)	239621	30.0000	30.0972
15 Fluoranthene	202		5.112	5.113	(1.204)	301939	30.0000	32.6057
16 Pyrene	202		5.278	5.278	(0.846)	323353	30.0000	31.6087
17 Benzo(a)anthracene	228		6.229	6.235	(0.998)	307563	30.0000	29.8752
19 Chrysene	228		6.261	6.261	(1.003)	293362	30.0000	31.7461
20 Benzo(b)fluoranthene	252		7.051	7.052	(0.962)	285512	30.0000	32.0081
21 Benzo(k)fluoranthene	252		7.073	7.073	(0.965)	335436	30.0000	31.7393
22 Benzo(a)pyrene	252		7.281	7.282	(0.993)	284542	30.0000	30.9461
24 Indeno(1,2,3-cd)pyrene	276		8.040	8.035	(1.097)	263461	30.0000	31.7558(M)
25 Dibenzo(a,h)anthracene	278		8.050	8.045	(1.098)	261651	30.0000	31.8210
26 Benzo(g,h,i)perylene	276		8.221	8.222	(1.122)	245198	30.0000	29.3607

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AC15008.D

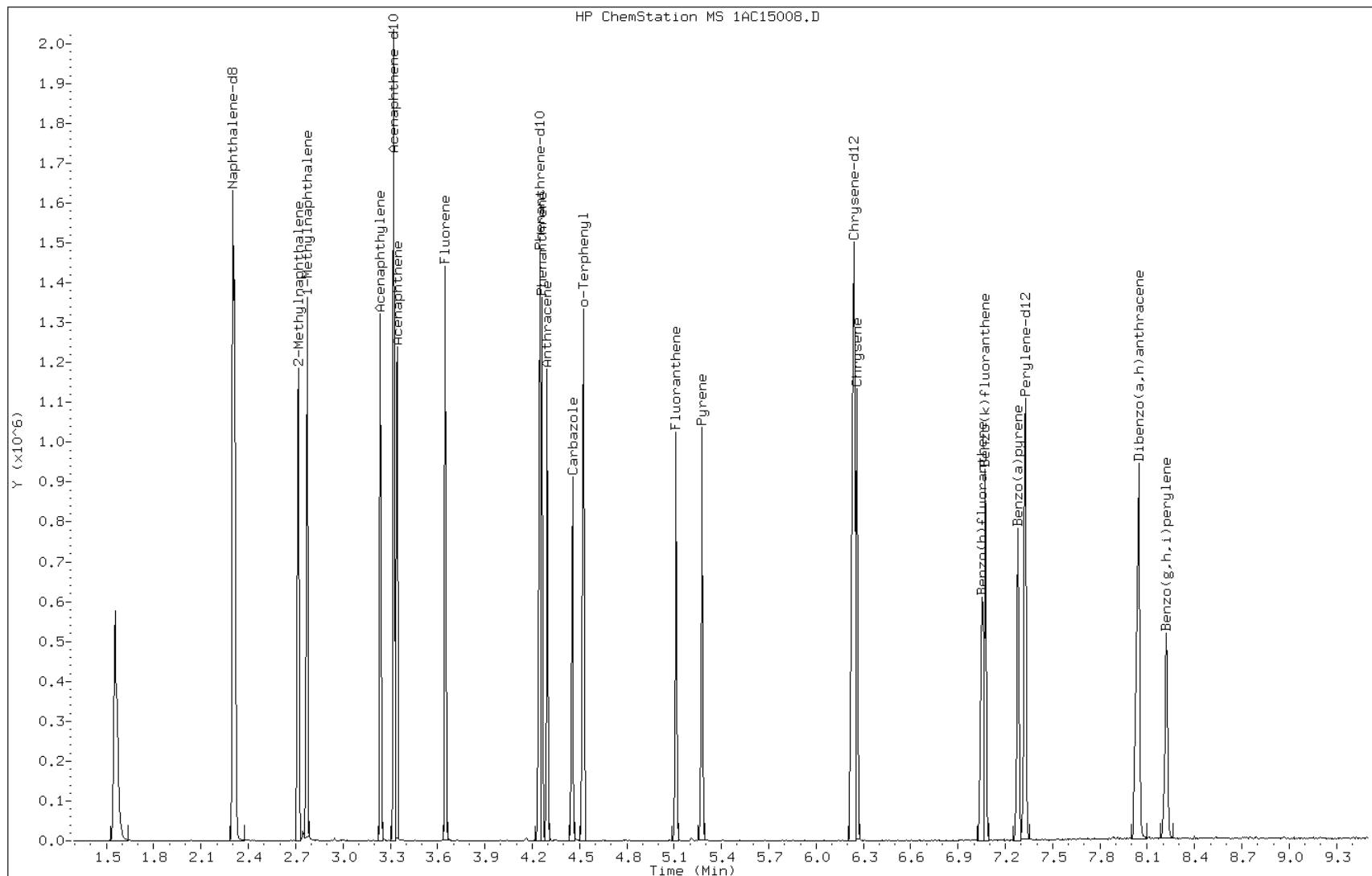
Date: 15-MAR-2013 14:10

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1512373

Operator: SCC

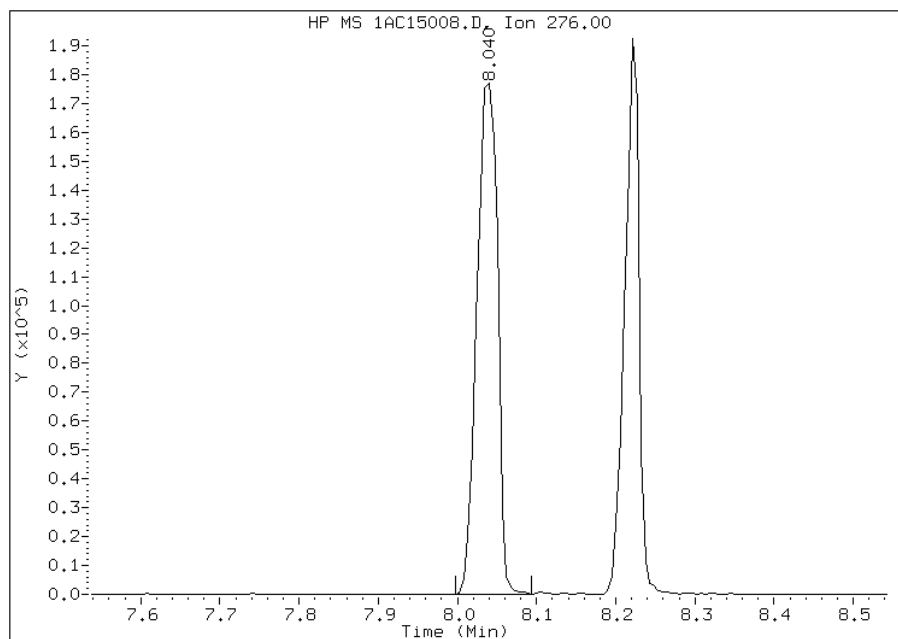


# Manual Integration Report

Data File: 1AC15008.D  
Inj. Date and Time: 15-MAR-2013 14:10  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/15/2013

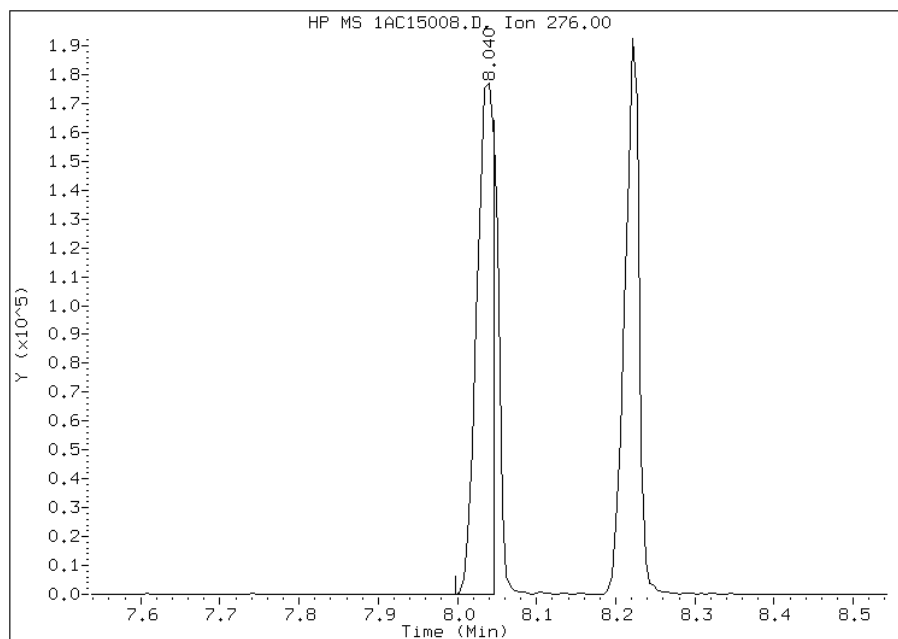
## Processing Integration Results

RT: 8.04  
Response: 316858  
Amount: 34  
Conc: 34



## Manual Integration Results

RT: 8.04  
Response: 263461  
Amount: 32  
Conc: 32



Manually Integrated By: cantins  
Modification Date: 15-Mar-2013 14:49  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15009.D  
 Lab Smp Id: IC-1512374  
 Inj Date : 15-MAR-2013 14:25  
 Operator : SCC  
 Smp Info : IC-1512374  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15009.D  
 Meth Date : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:10 Cal File: 1AC15008.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					ON-COL
			CAL-AMT	ON-COL	REL RT	RESPONSE	(ug/ml)	
MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)		
* 1 Naphthalene-d8	136	2.303	2.303	(1.000)	416711	40.0000		
* 6 Acenaphthene-d10	164	3.324	3.323	(1.000)	242716	40.0000		
* 10 Phenanthrene-d10	188	4.248	4.247	(1.000)	331701	40.0000		
\$ 14 o-Terphenyl	230	4.526	4.525	(1.065)	294944	50.0000	62.0476(A)	
* 18 Chrysene-d12	240	6.246	6.245	(1.000)	346445	40.0000		
* 23 Perylene-d12	264	7.330	7.330	(1.000)	375920	40.0000		
2 Naphthalene	128	2.314	2.313	(1.005)	536733	50.0000	55.7504(A)	
3 2-Methylnaphthalene	141	2.720	2.714	(1.181)	291739	50.0000	60.1540(A)	
4 1-Methylnaphthalene	142	2.773	2.773	(1.204)	314615	50.0000	56.8310(A)	
5 Acenaphthylene	152	3.244	3.238	(0.976)	568020	50.0000	65.0871(A)	
7 Acenaphthene	154	3.345	3.344	(1.006)	337349	50.0000	68.1501(A)	
9 Fluorene	166	3.655	3.649	(1.100)	425998	50.0000	68.2586(A)	
11 Phenanthrene	178	4.264	4.263	(1.004)	493056	50.0000	58.6491(A)	
12 Anthracene	178	4.301	4.295	(1.013)	493502	50.0000	60.5408(A)	
13 Carbazole	167	4.462	4.456	(1.050)	422232	50.0000	59.0976(A)	
15 Fluoranthene	202	5.113	5.113	(1.204)	513840	50.0000	61.8329(A)	
16 Pyrene	202	5.279	5.278	(0.845)	535158	50.0000	53.8747(A)	
17 Benzo(a)anthracene	228	6.235	6.235	(0.998)	502221	50.0000	50.2394(A)	
19 Chrysene	228	6.267	6.261	(1.003)	472426	50.0000	52.6494(A)	
20 Benzo(b)fluoranthene	252	7.058	7.052	(0.963)	523197	50.0000	61.1322(A)	
21 Benzo(k)fluoranthene	252	7.085	7.073	(0.966)	554548	50.0000	54.6885(A)	
22 Benzo(a)pyrene	252	7.288	7.282	(0.994)	488657	50.0000	55.3902(A)	
24 Indeno(1,2,3-cd)pyrene	276	8.051	8.035	(1.098)	499702	50.0000	62.7751(A)	
25 Dibenzo(a,h)anthracene	278	8.057	8.045	(1.099)	486347	50.0000	61.6464(A)	
26 Benzo(g,h,i)perylene	276	8.238	8.222	(1.124)	434983	50.0000	54.2864(A)	

QC Flag Legend

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

Data File: 1AC15009.D

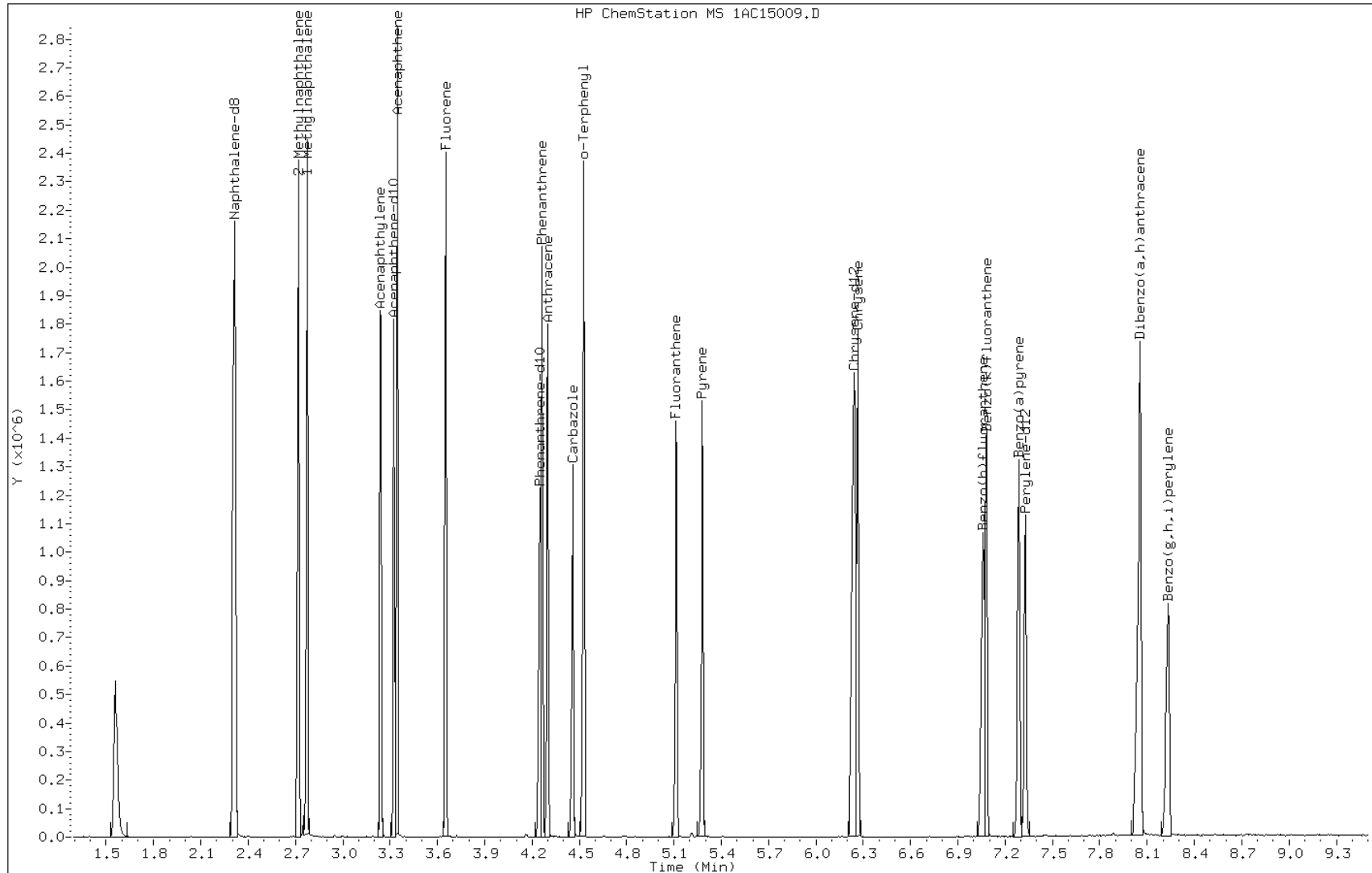
Date: 15-MAR-2013 14:25

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1512374

Operator: SCC



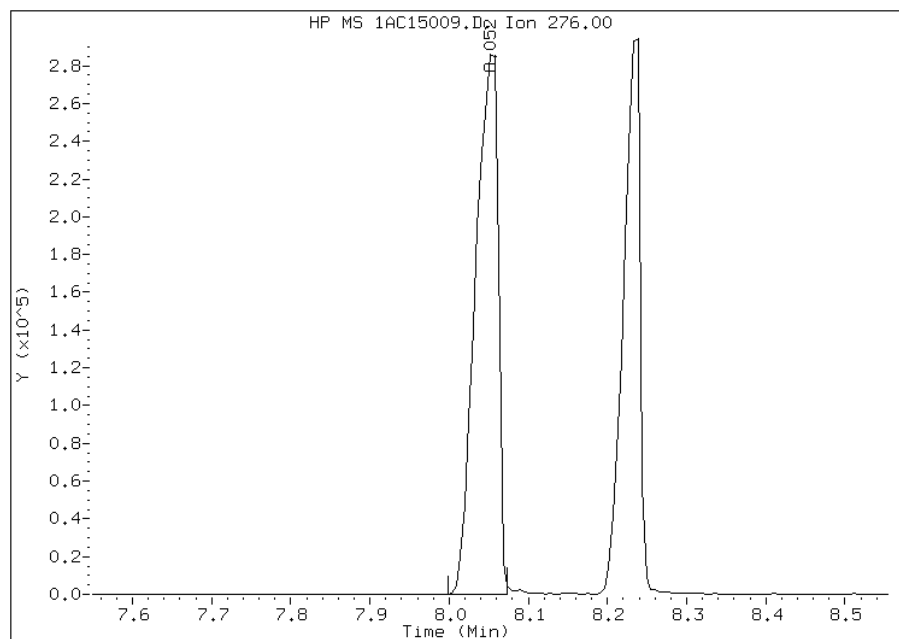


# Manual Integration Report

Data File: 1AC15009.D  
Inj. Date and Time: 15-MAR-2013 14:25  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/15/2013

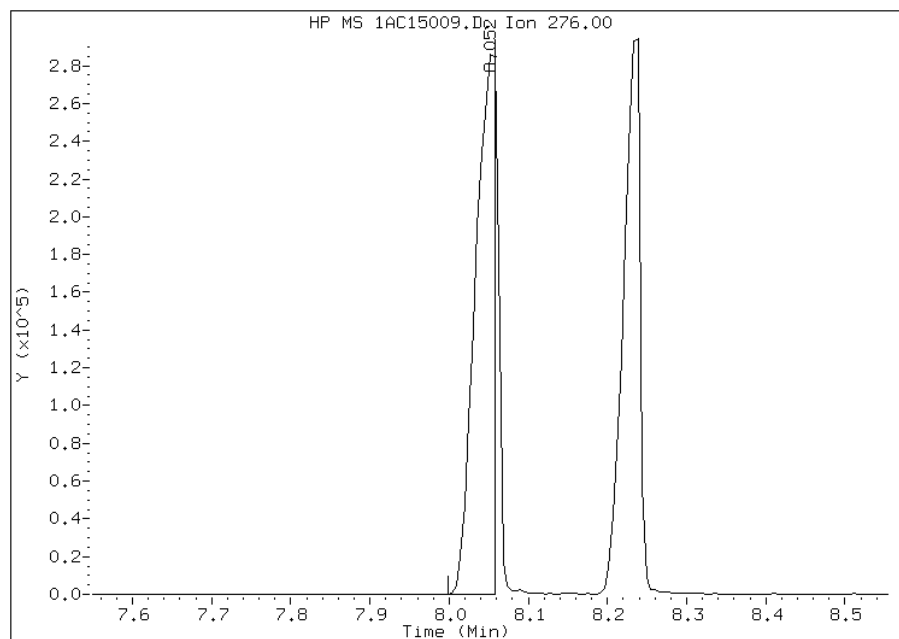
## Processing Integration Results

RT: 8.05  
Response: 563658  
Amount: 61  
Conc: 61



## Manual Integration Results

RT: 8.05  
Response: 499702  
Amount: 63  
Conc: 63



Manually Integrated By: cantins  
Modification Date: 15-Mar-2013 14:50  
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88420-1 Analy Batch No.: 134776

SDG No.: 68088420-1

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.: 680-88420-1 Analy Batch No.: 134776  
 SDG No.: 68088420-1  
 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.: 680-88420-1 Analy Batch No.: 134776

SDG No.: 68088420-1

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.: 680-88420-1 Analy Batch No.: 134776

SDG No.: 68088420-1

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

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsrv\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-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 13:48 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

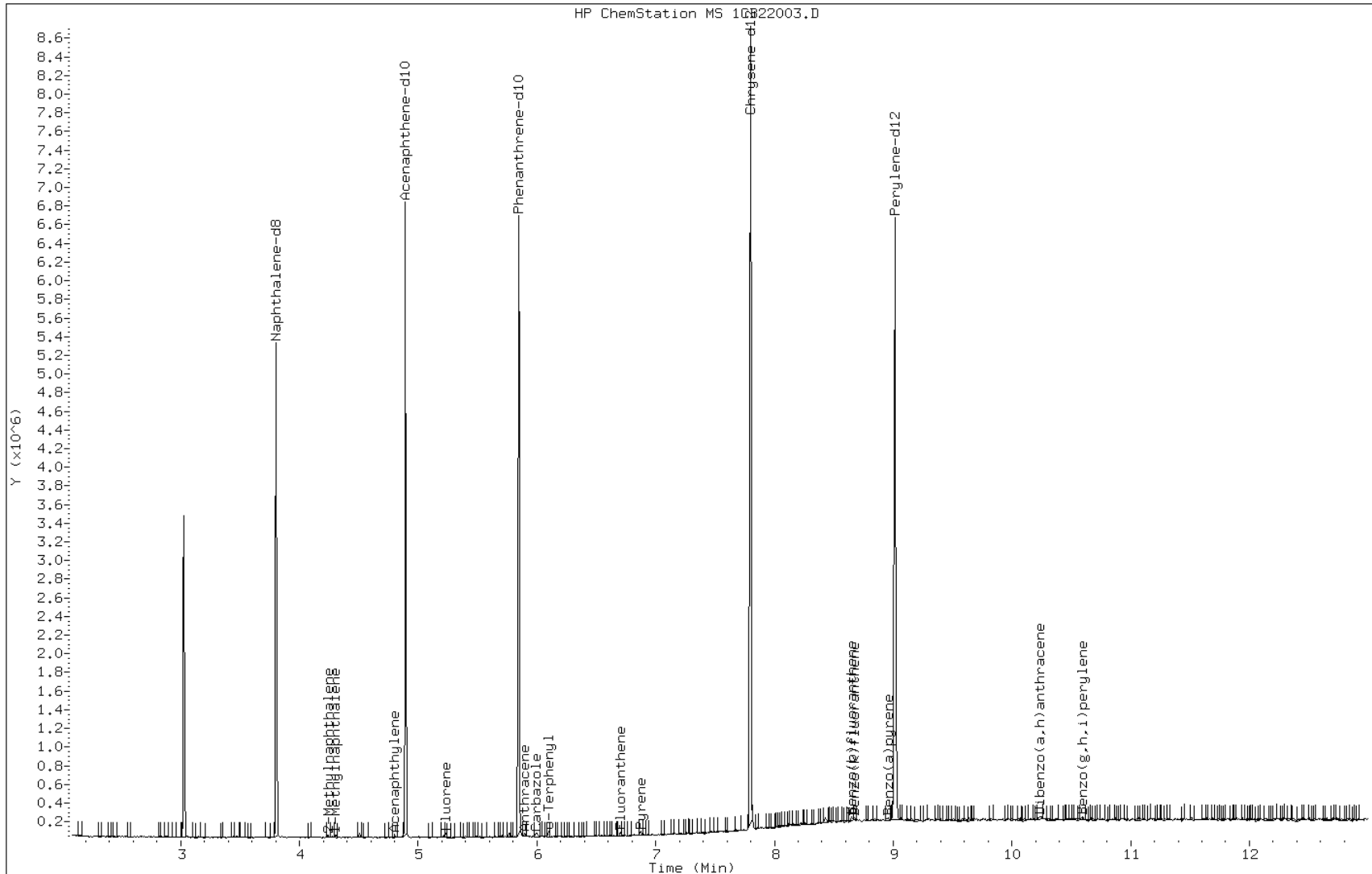
Date: 22-FEB-2013 11:57

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512358

Operator: SCC

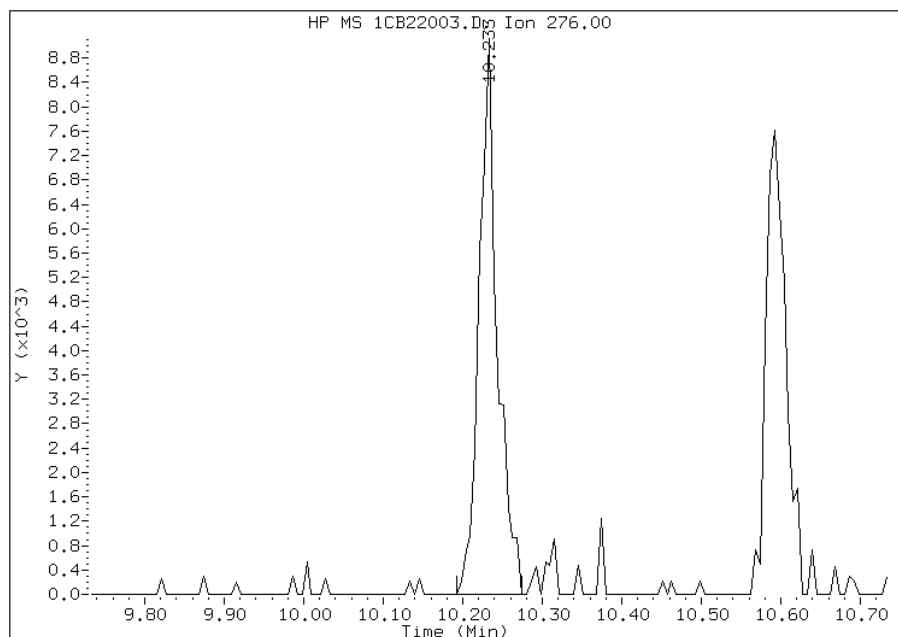


# Manual Integration Report

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

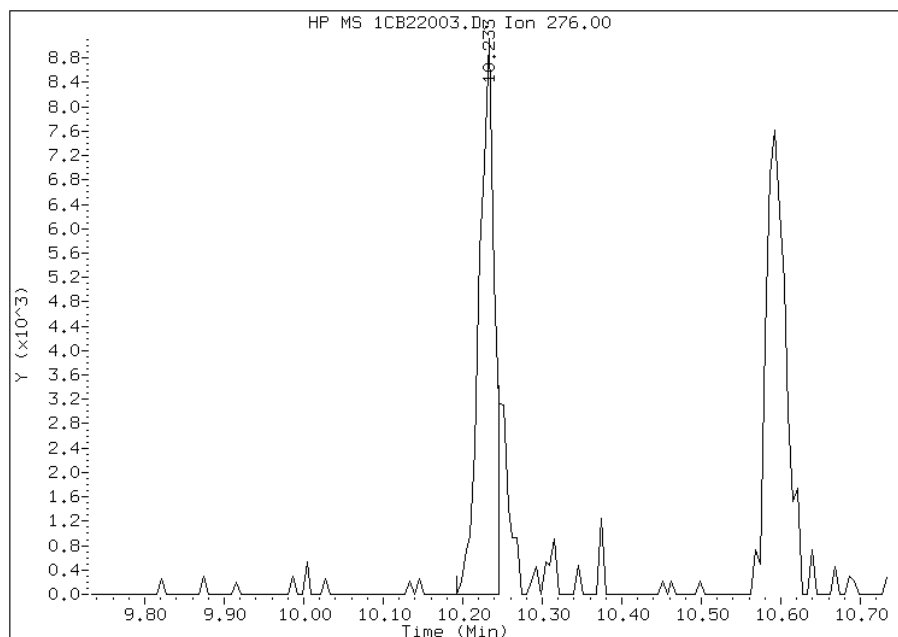
## Processing Integration Results

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

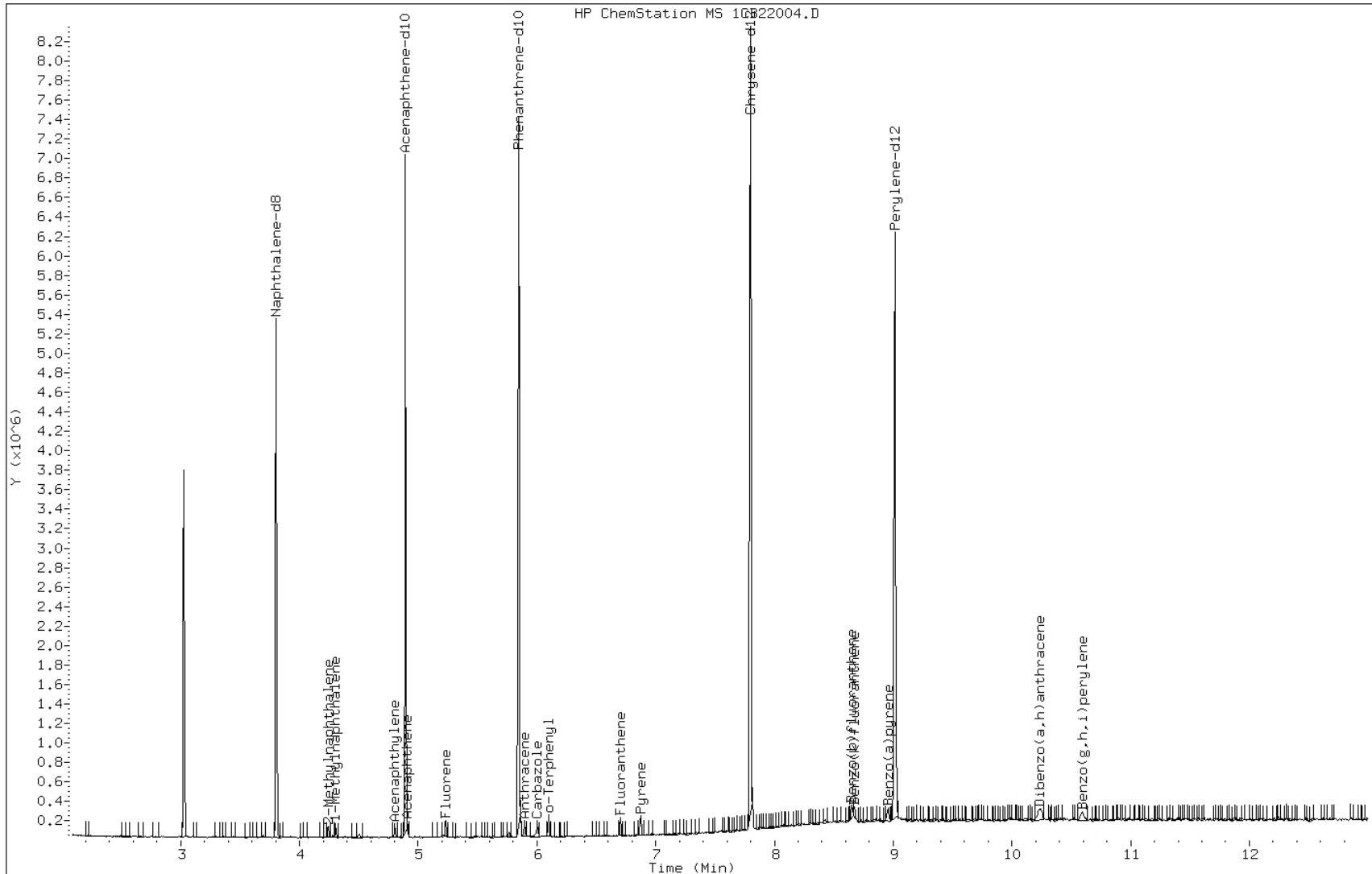
Date: 22-FEB-2013 12:16

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512359

Operator: SCC

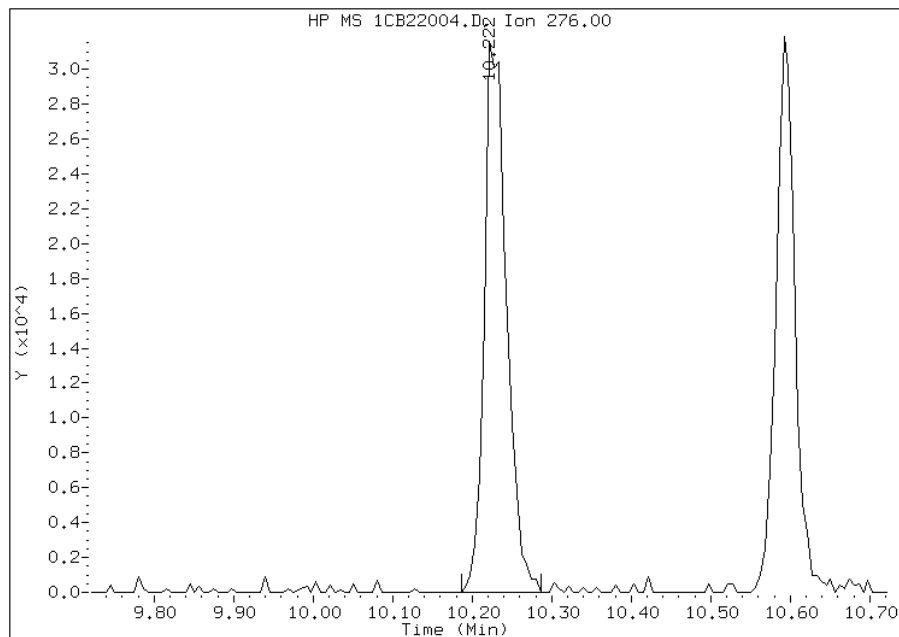


# Manual Integration Report

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

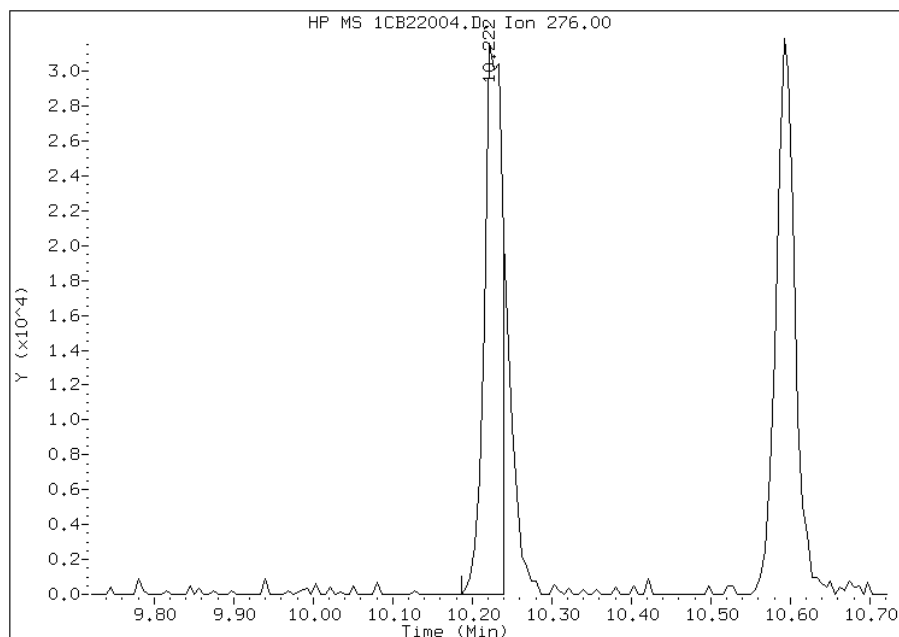
## Processing Integration Results

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

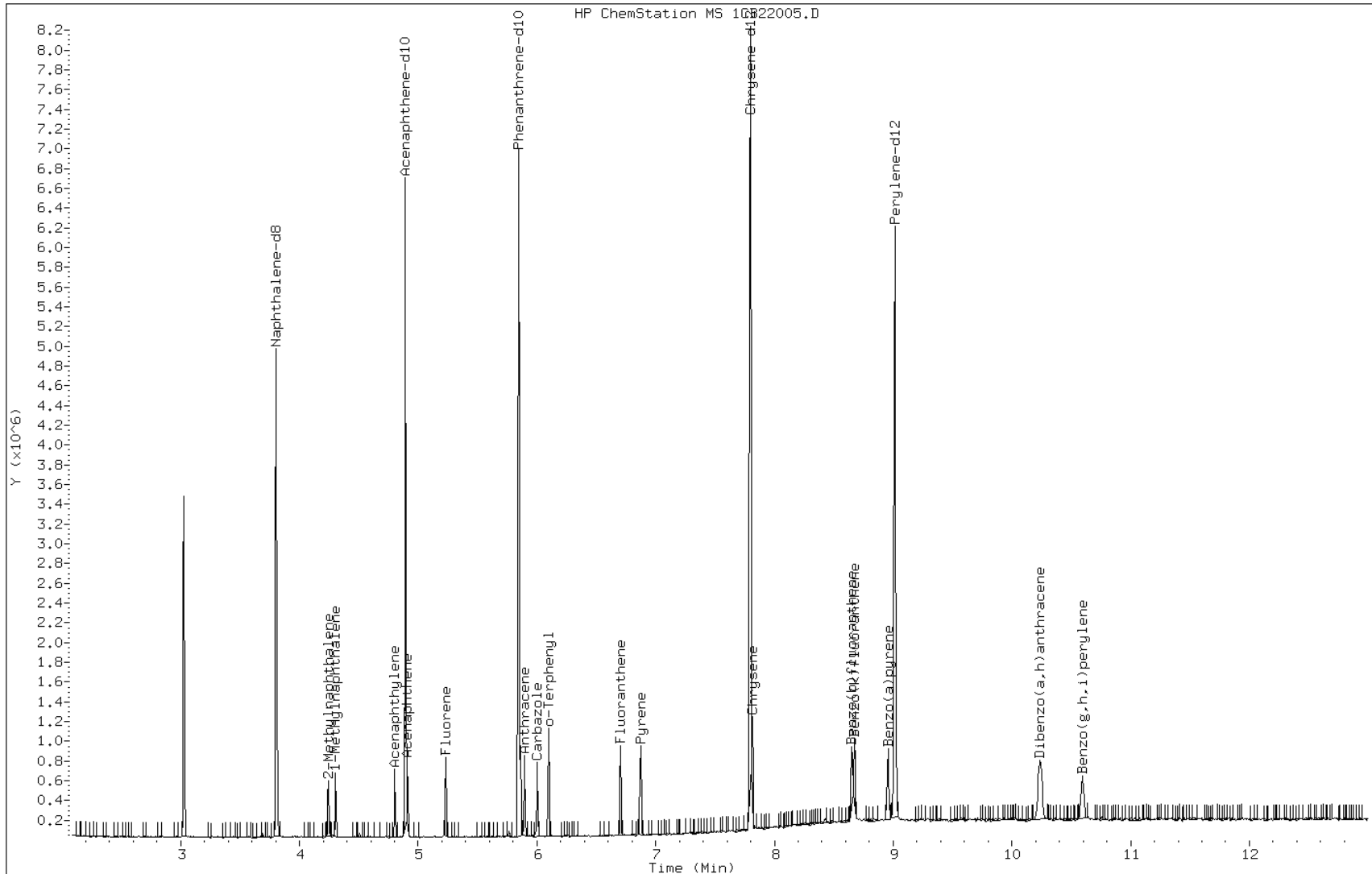
Date: 22-FEB-2013 12:34

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512360

Operator: SCC

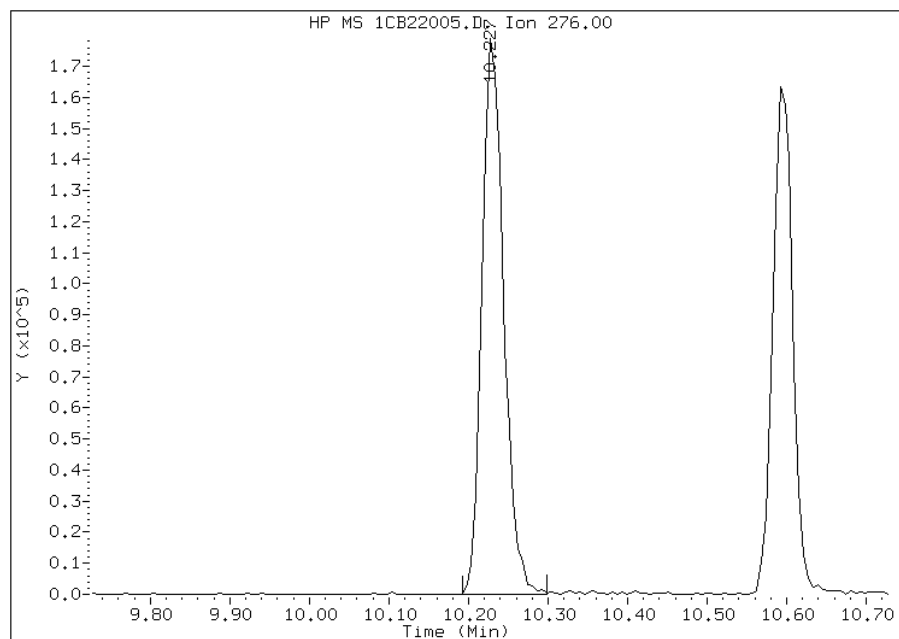


# Manual Integration Report

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

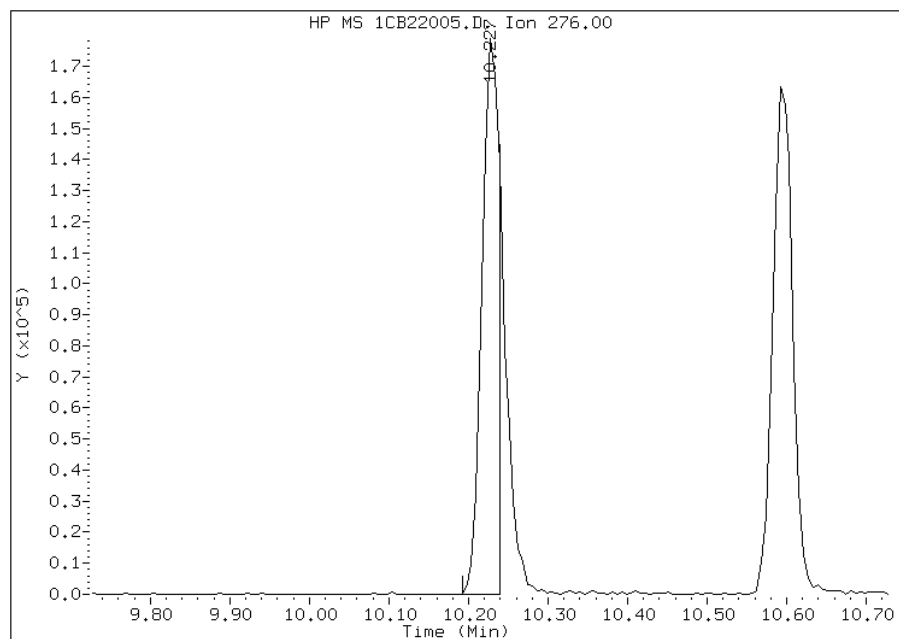
## Processing Integration Results

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

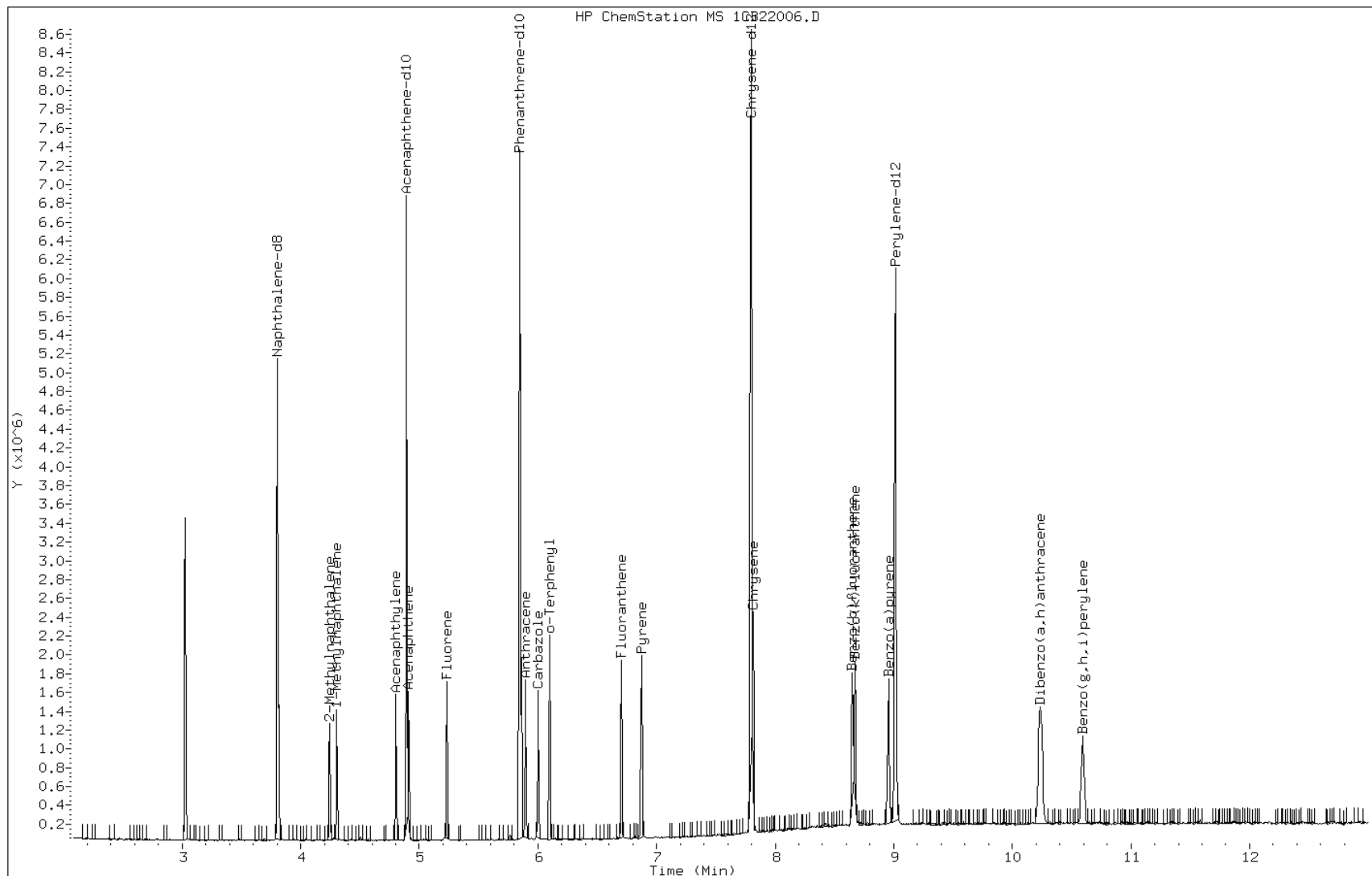
Date: 22-FEB-2013 12:53

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512361

Operator: SCC



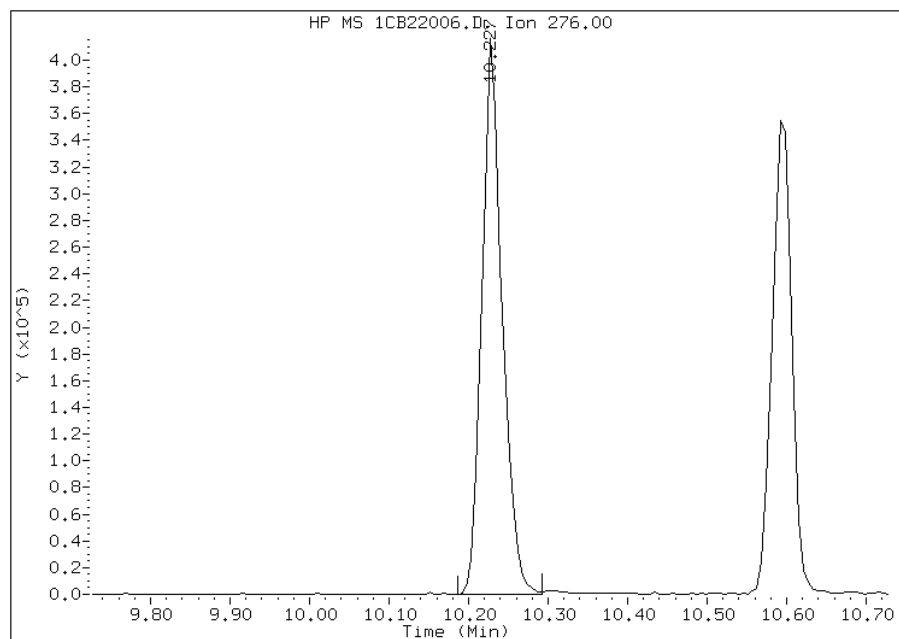


# Manual Integration Report

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

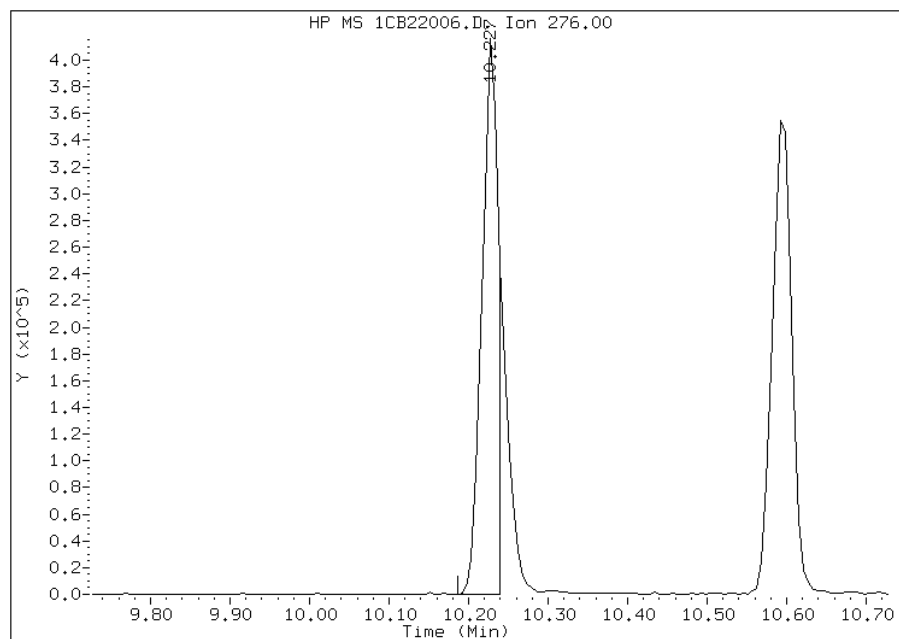
## Processing Integration Results

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

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\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-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 12:53 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)
* 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

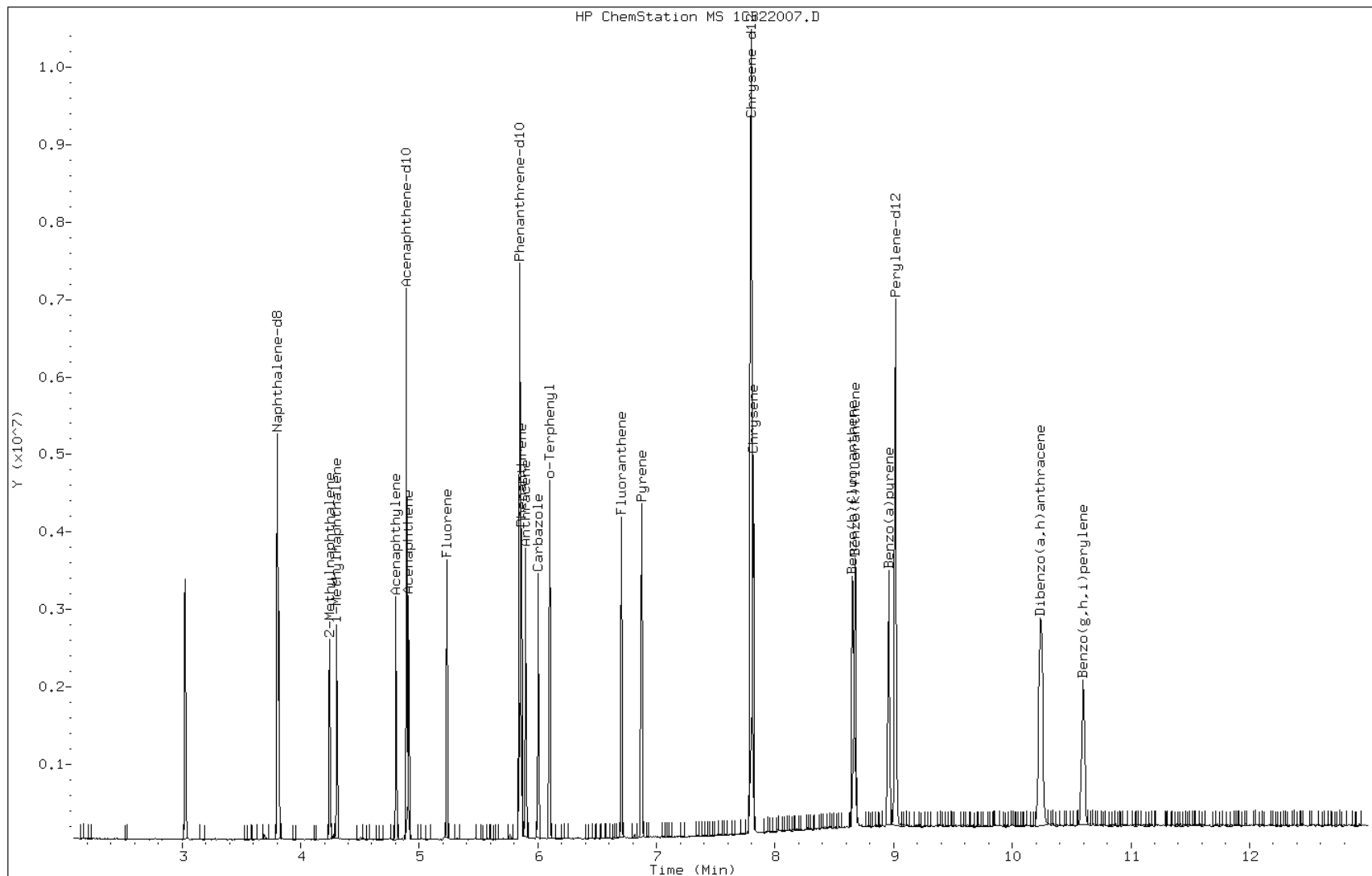
Date: 22-FEB-2013 13:11

Client ID:

Instrument: BSMC5973.i

Sample Info: ICIS-1512372

Operator: SCC

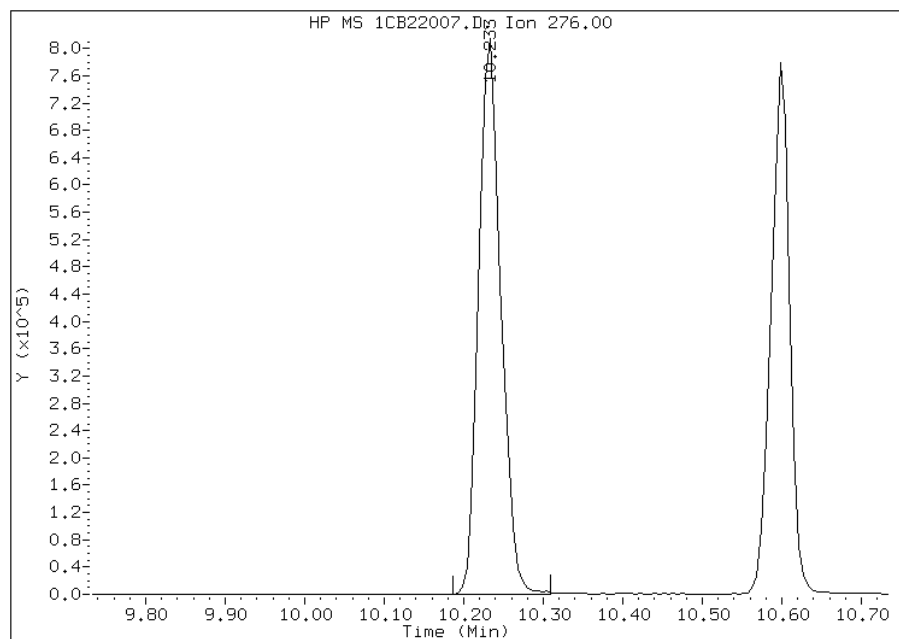


# Manual Integration Report

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

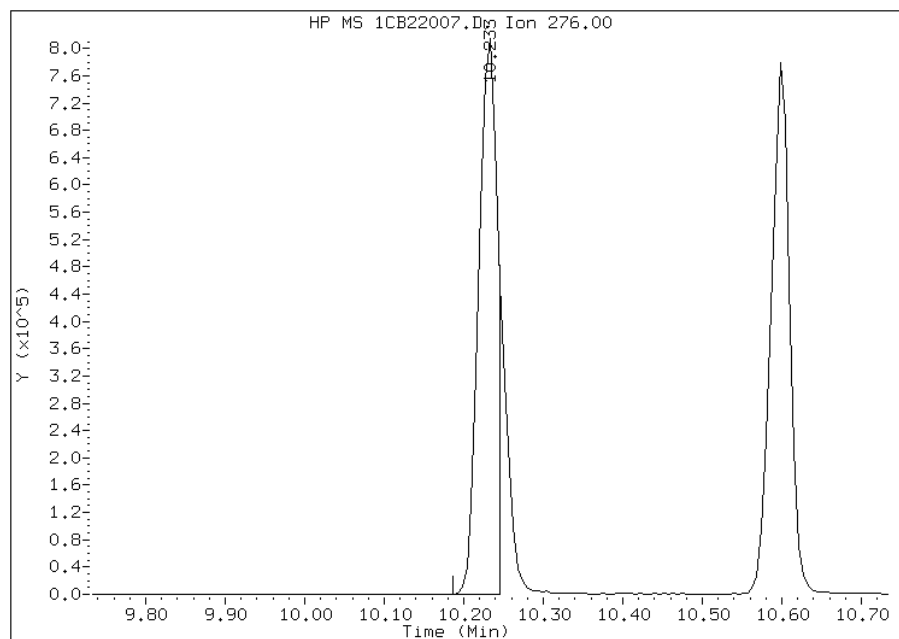
## Processing Integration Results

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

Semivolatile 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

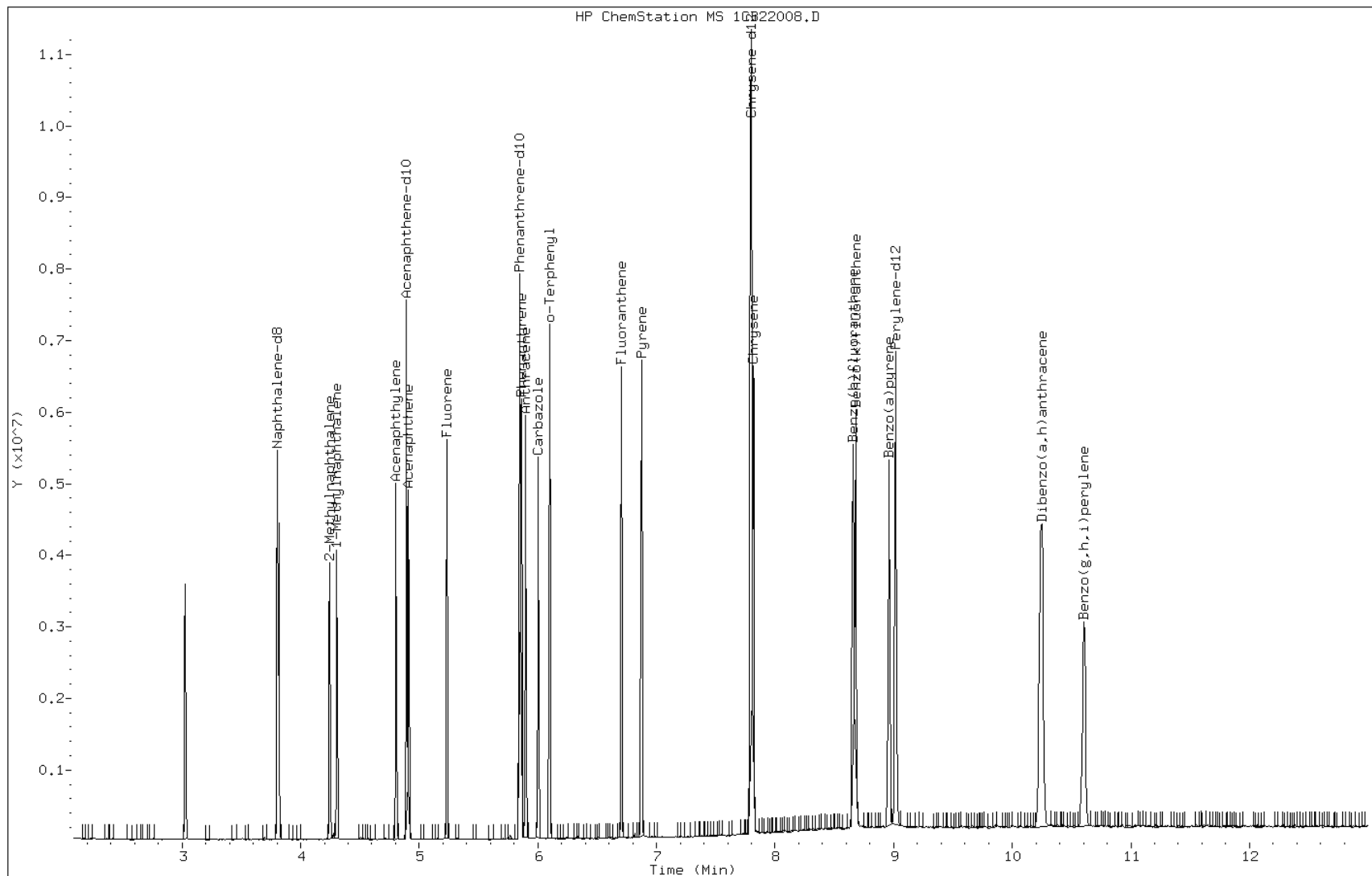
Date: 22-FEB-2013 13:29

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512373

Operator: SCC

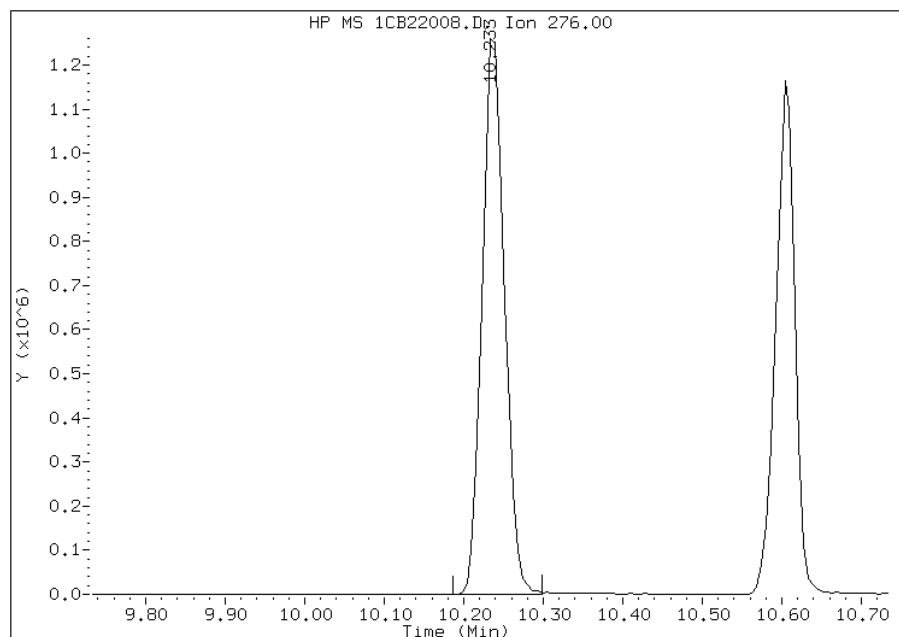


# Manual Integration Report

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

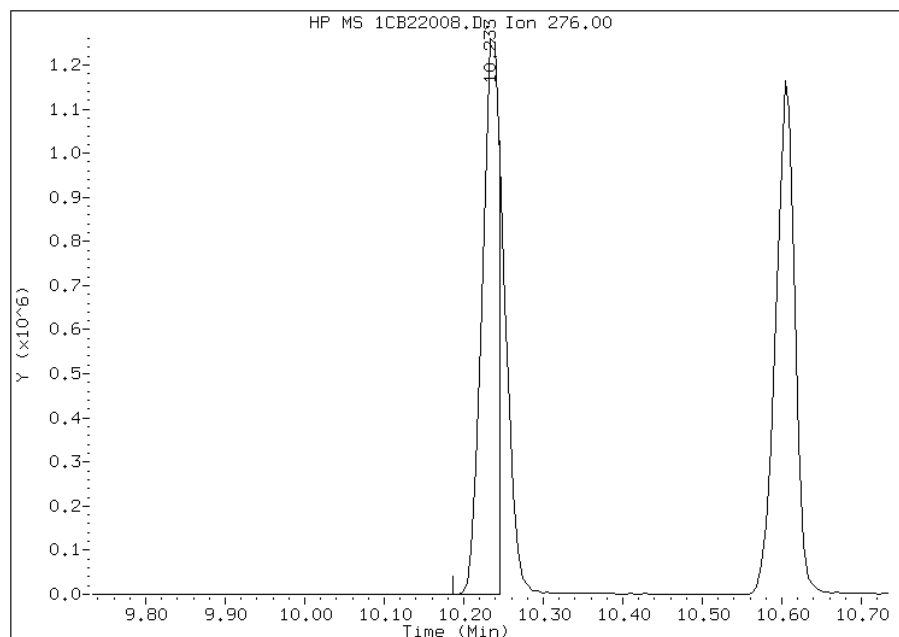
## Processing Integration Results

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

Semivolatile 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	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							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

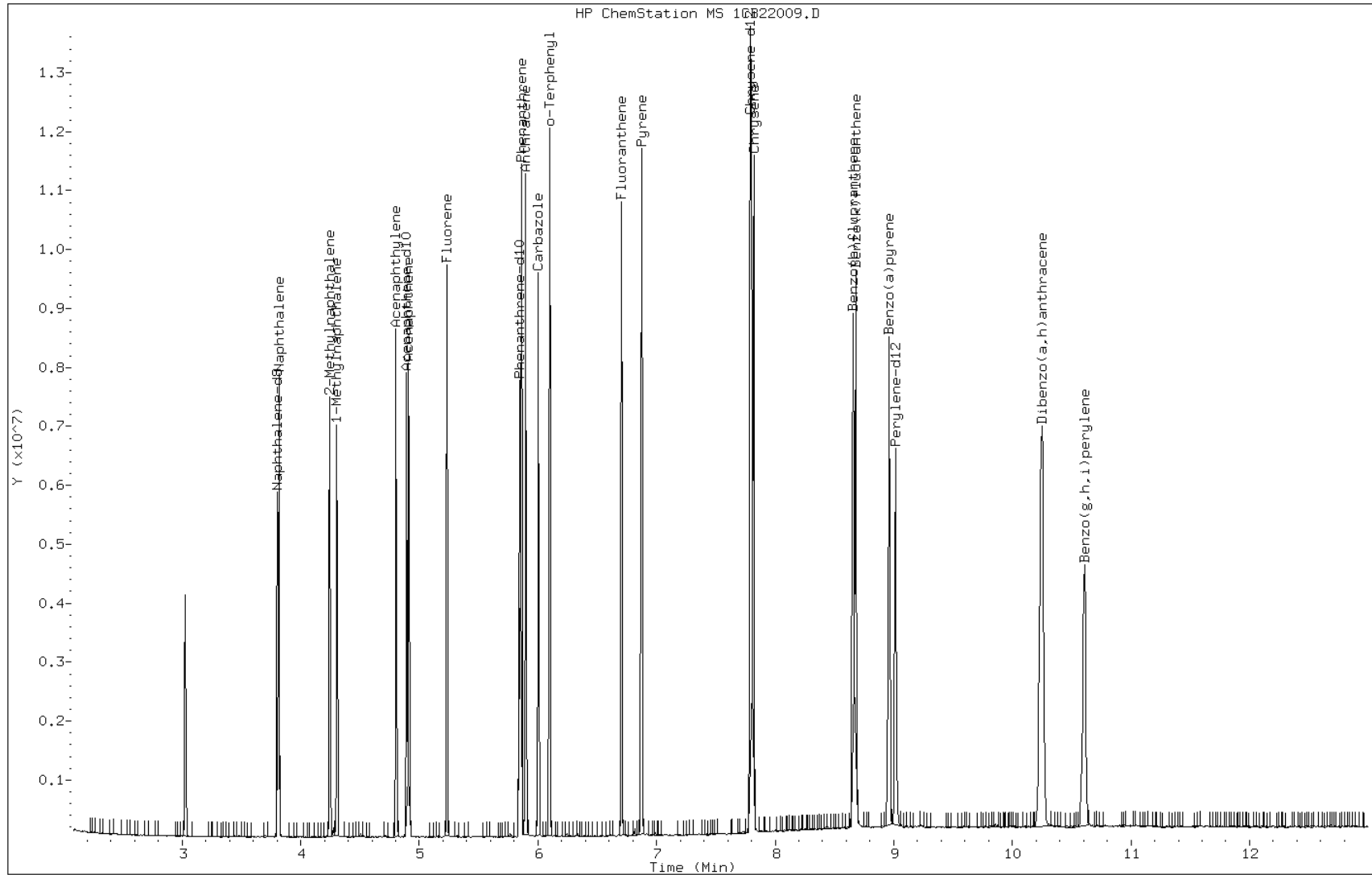
Date: 22-FEB-2013 13:48

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512374

Operator: SCC

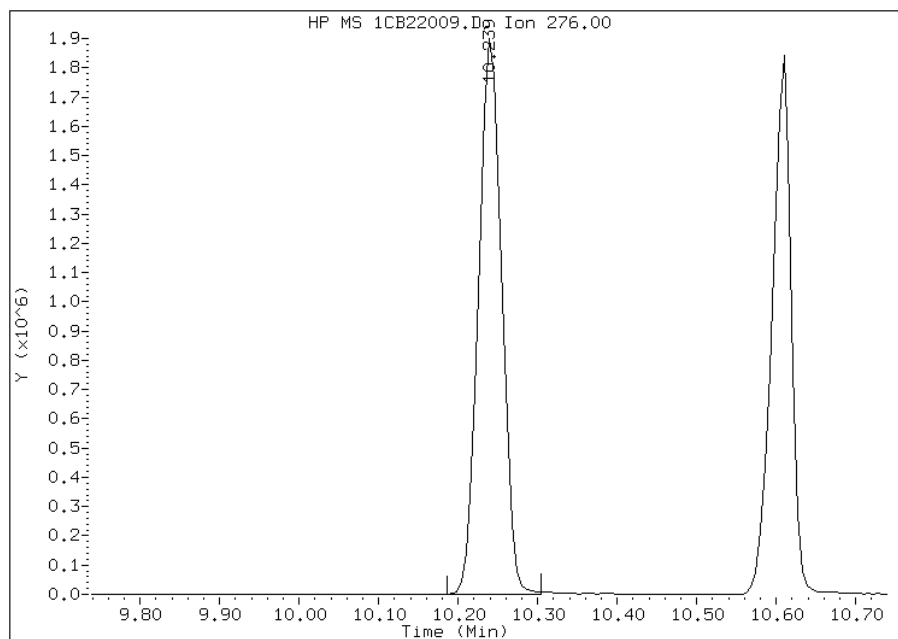


# Manual Integration Report

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

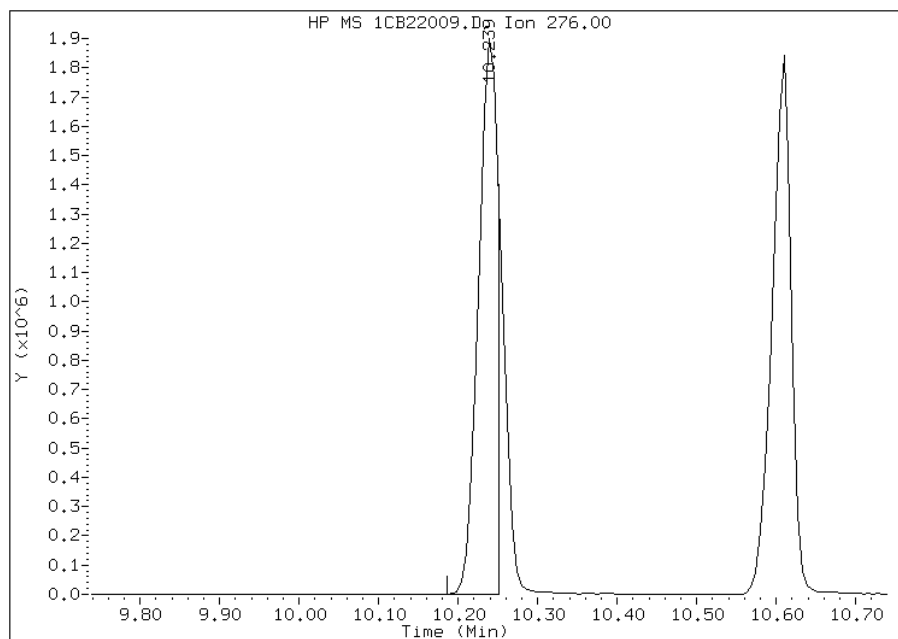
## Processing Integration Results

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.: 680-88420-1 Analy Batch No.: 134781

SDG No.: 68088420-1

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.: 680-88420-1 Analy Batch No.: 134781

SDG No.: 68088420-1

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.: 680-88420-1 Analy Batch No.: 134781

SDG No.: 68088420-1

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.: 680-88420-1 Analy Batch No.: 134781

SDG No.: 68088420-1

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

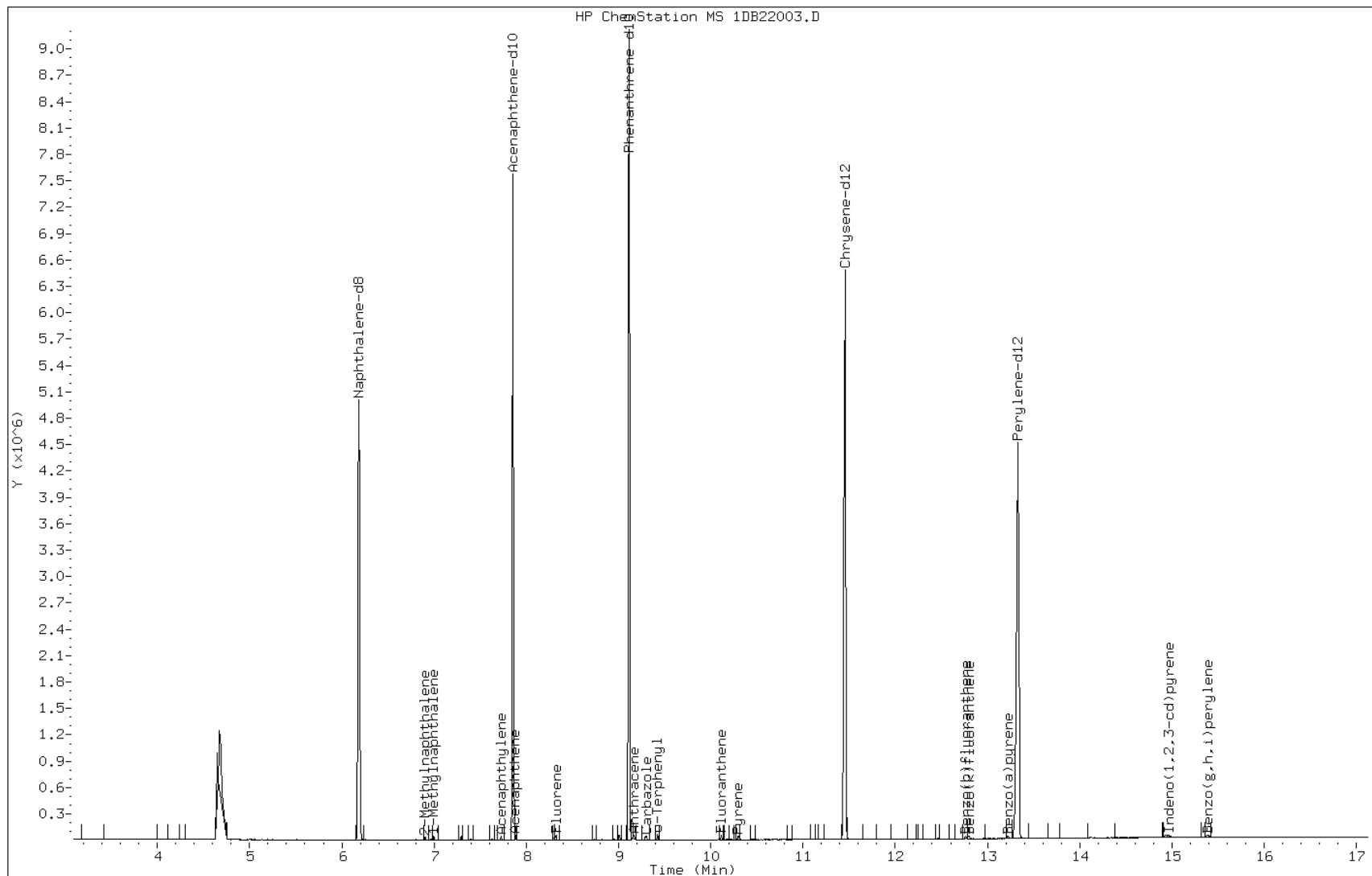
Date: 22-FEB-2013 12:13

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512358

Operator: SCC



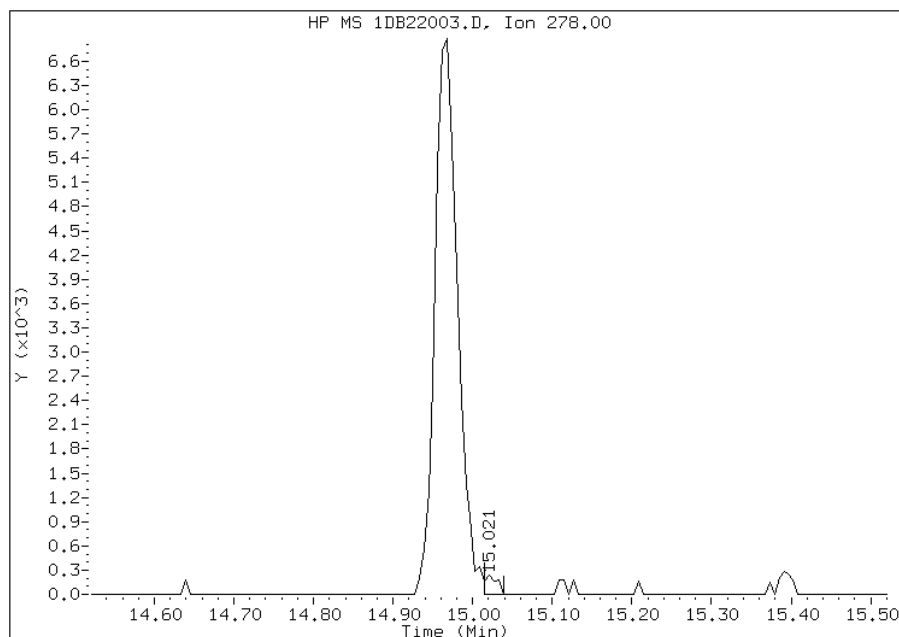


Manual Integration Report

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

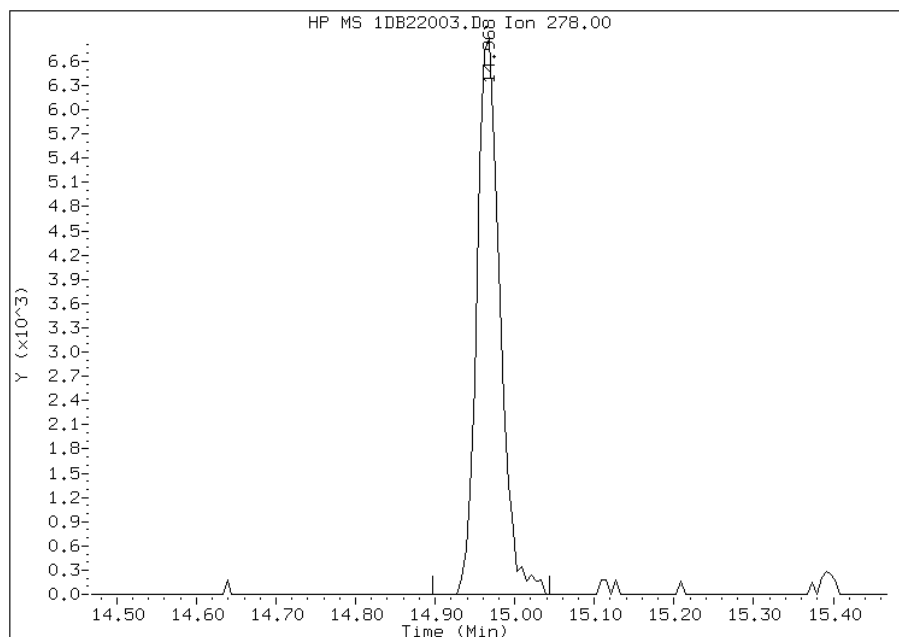
Processing Integration Results

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



Manual Integration Results

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



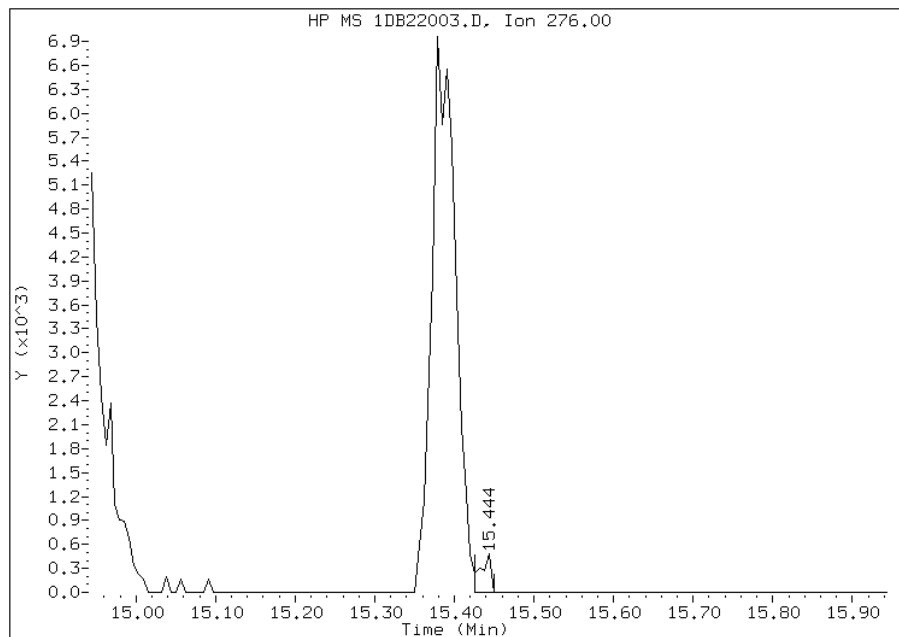
Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:57  
Manual Integration Reason: Baseline Event

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

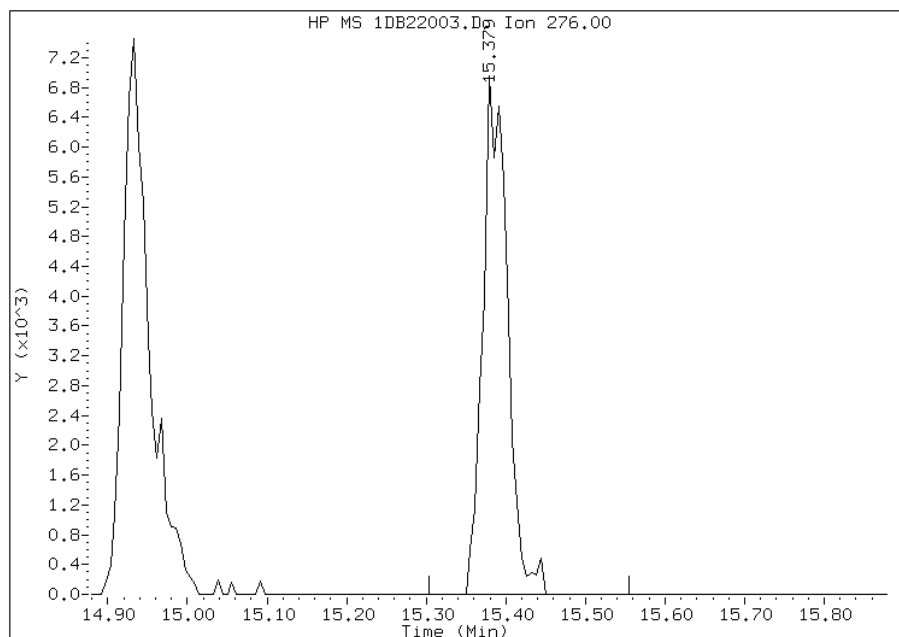
Processing Integration Results

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-chemsrv\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-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 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

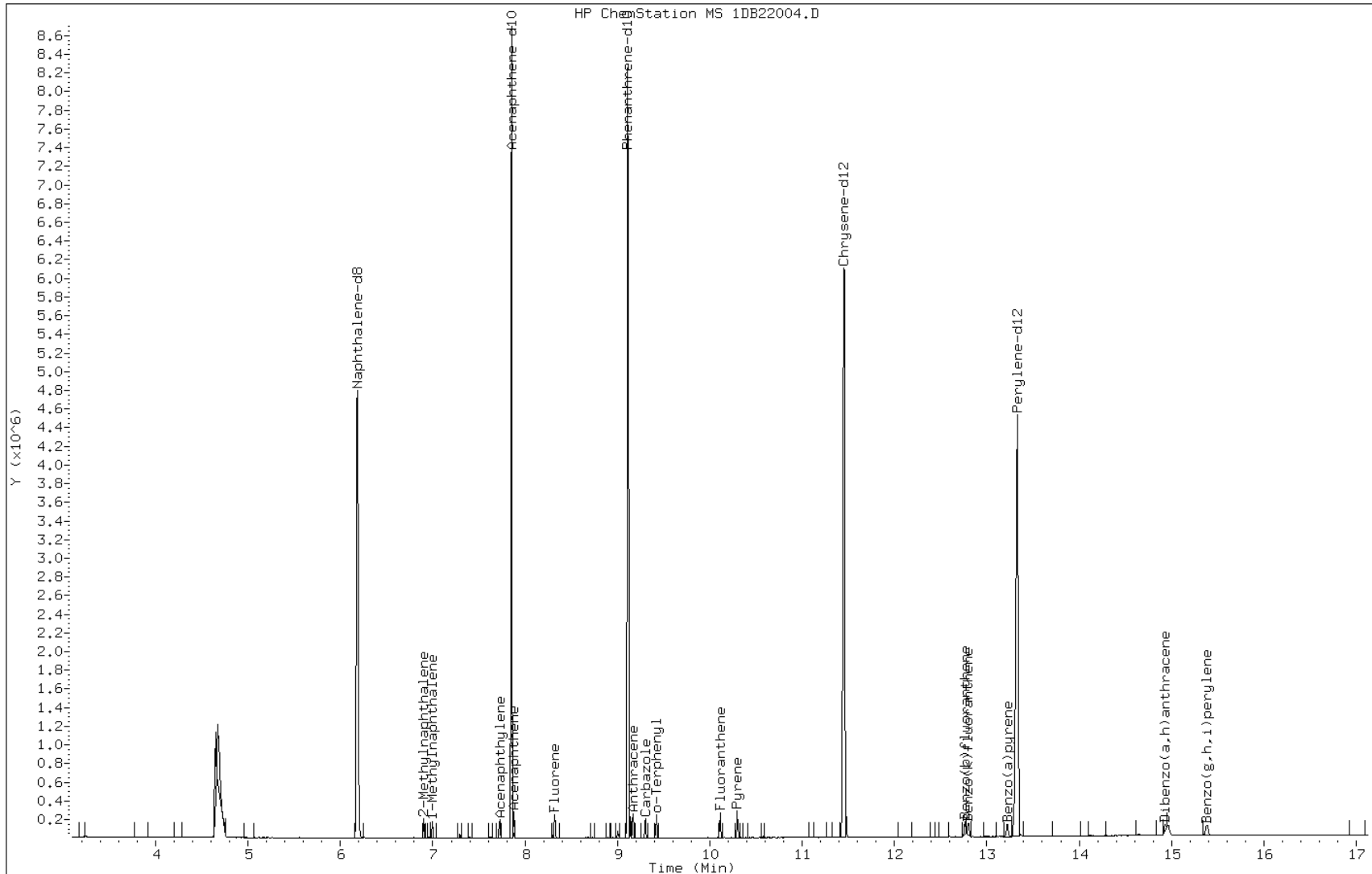
Date: 22-FEB-2013 12:35

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512359

Operator: SCC

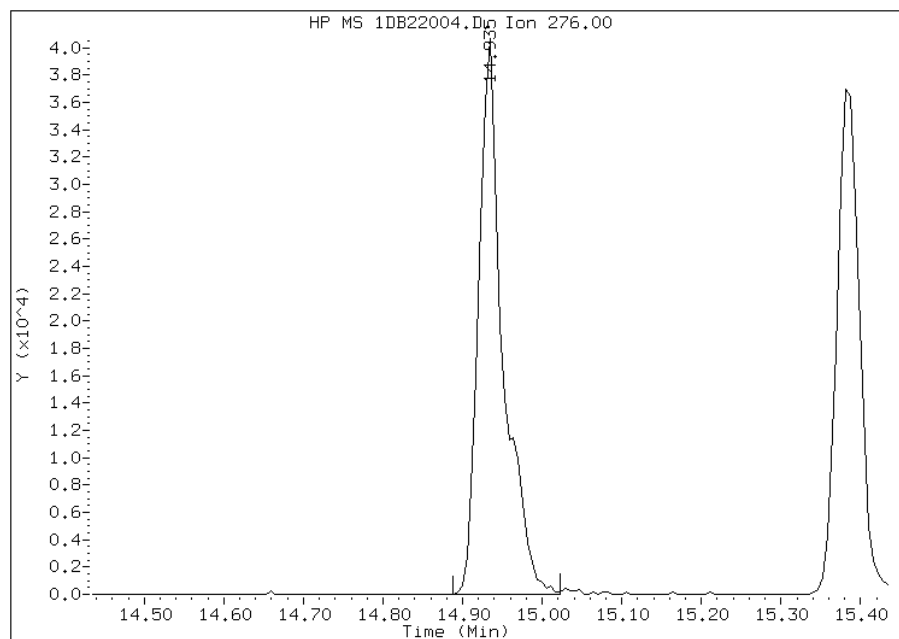


# Manual Integration Report

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

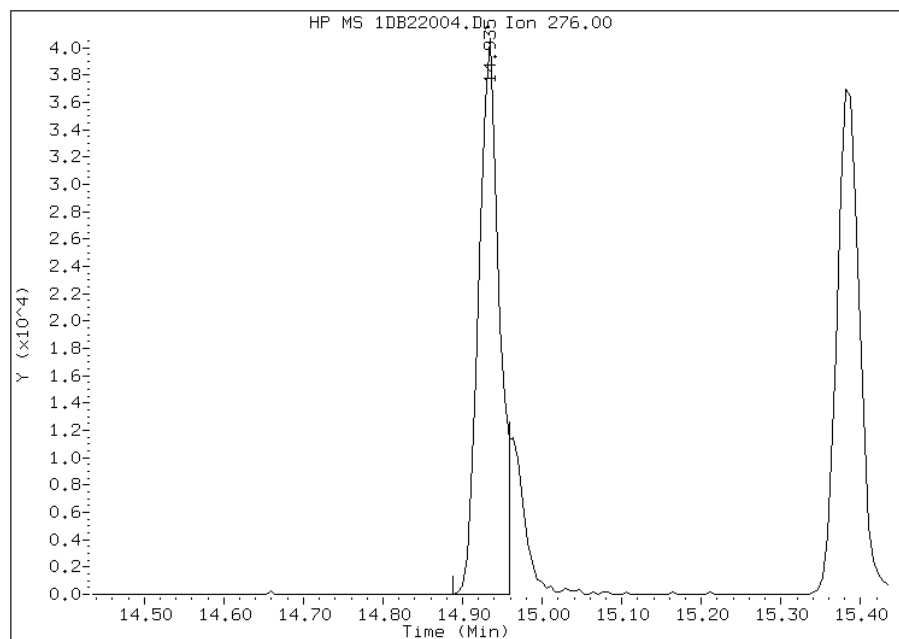
## Processing Integration Results

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

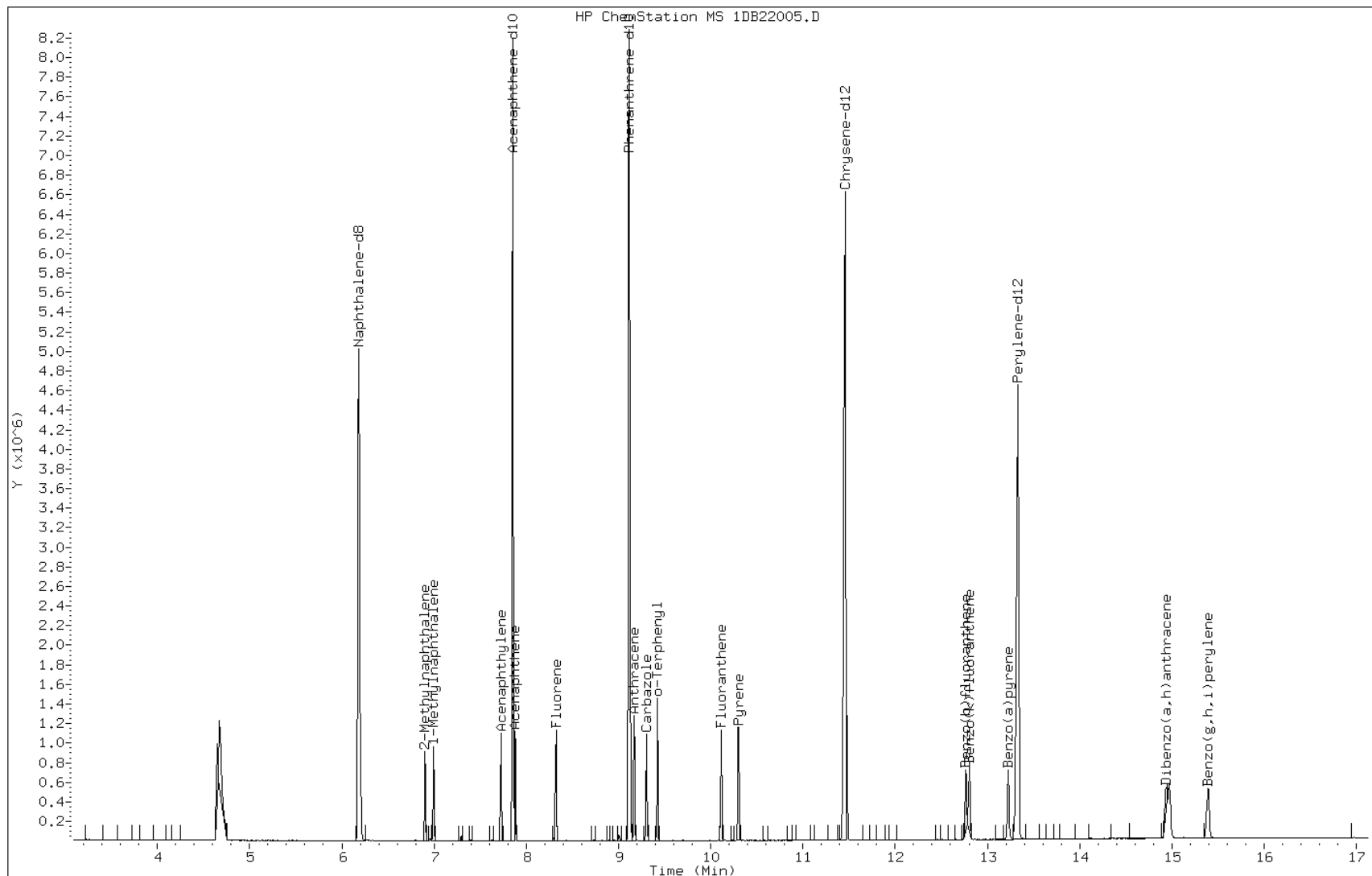
Date: 22-FEB-2013 12:58

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512360

Operator: SCC

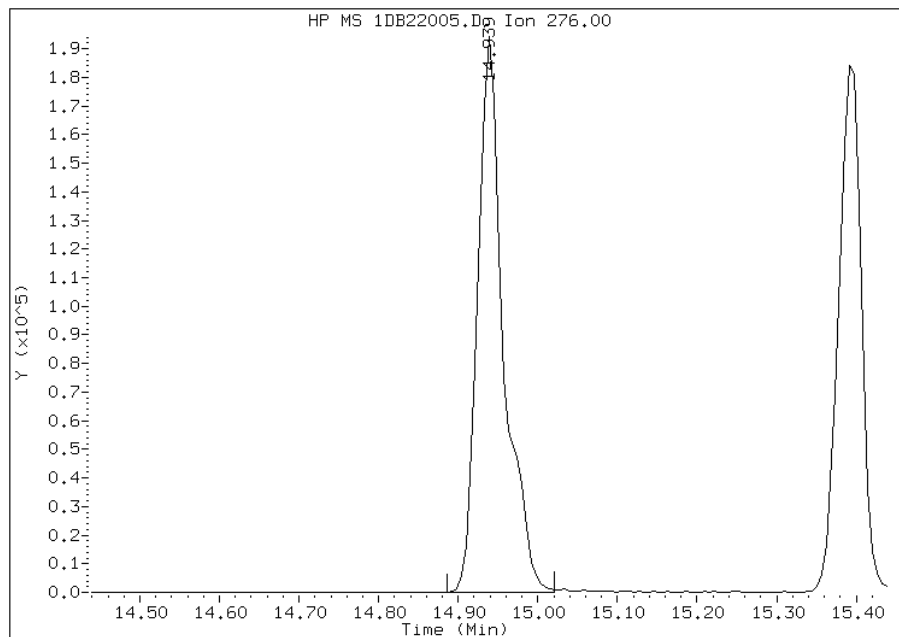


Manual Integration Report

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

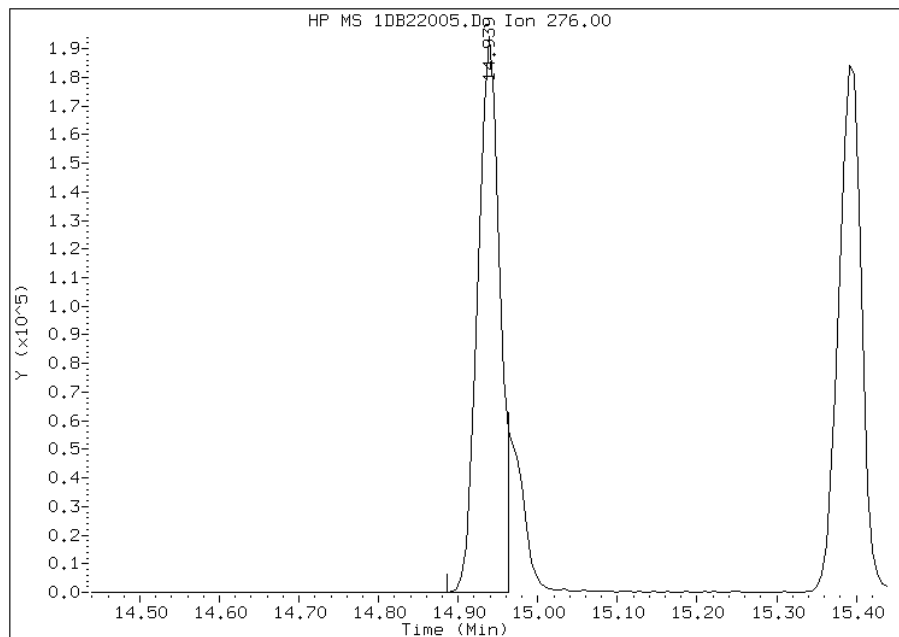
Processing Integration Results

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

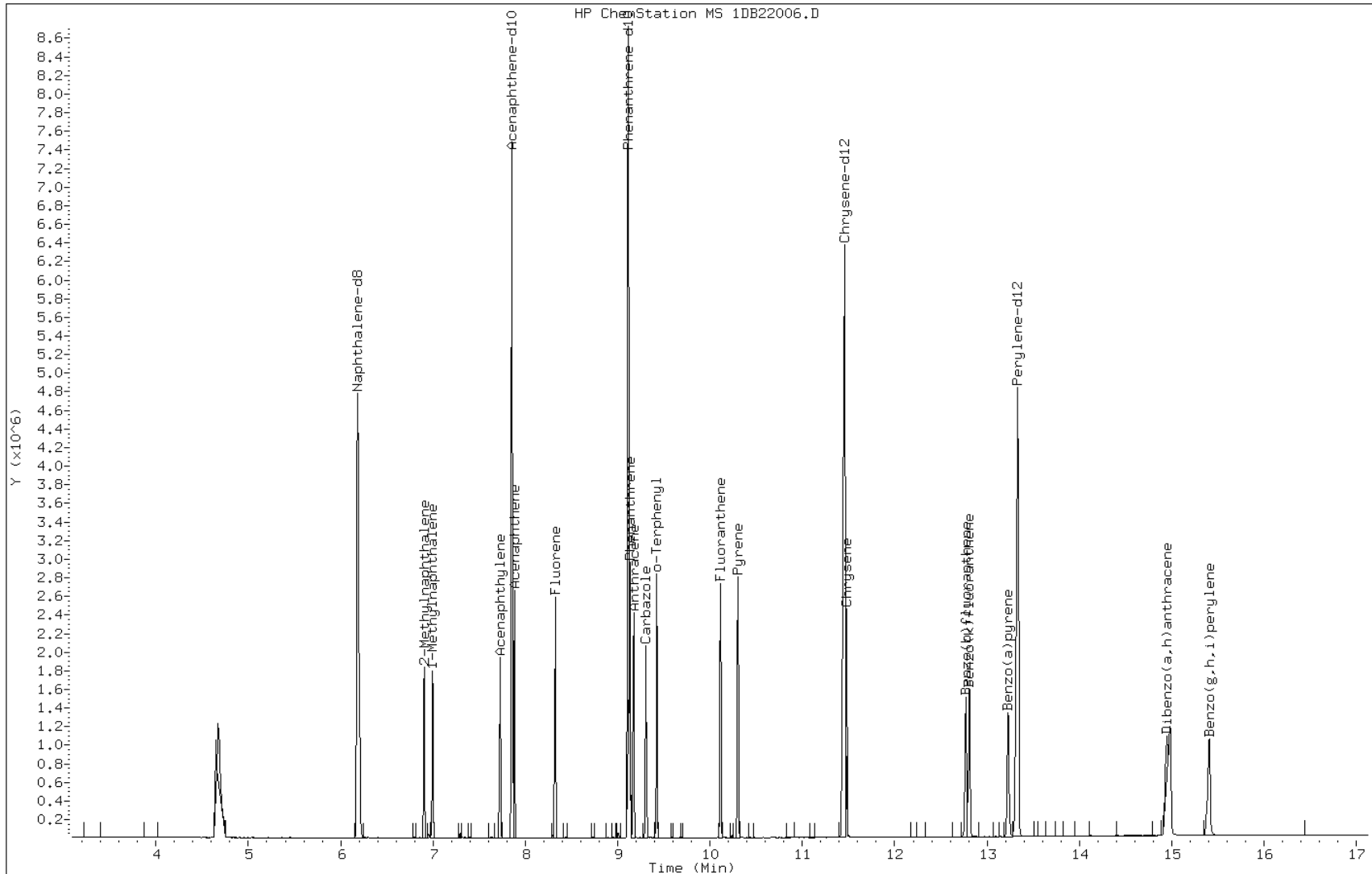
Date: 22-FEB-2013 13:21

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512361

Operator: SCC

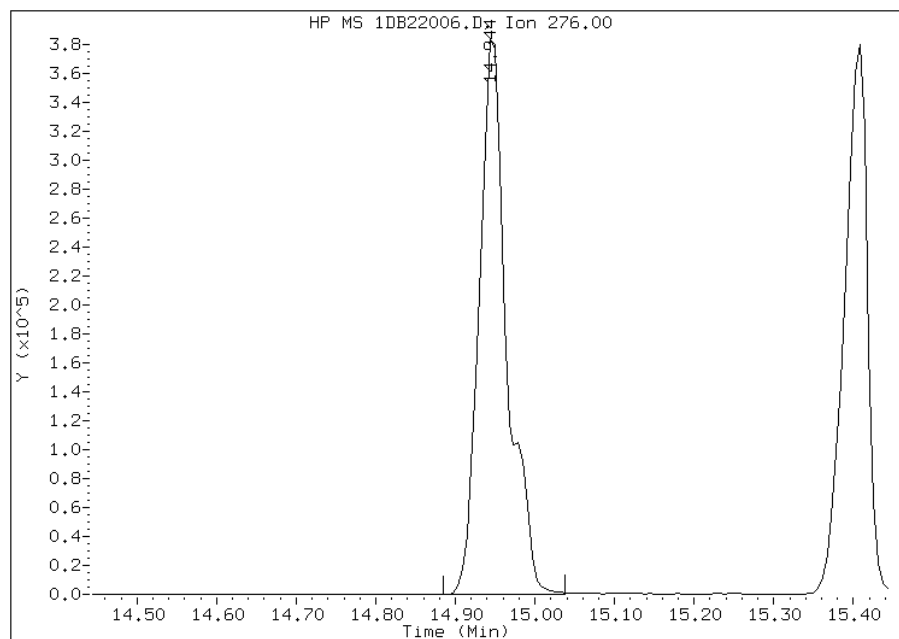


# Manual Integration Report

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

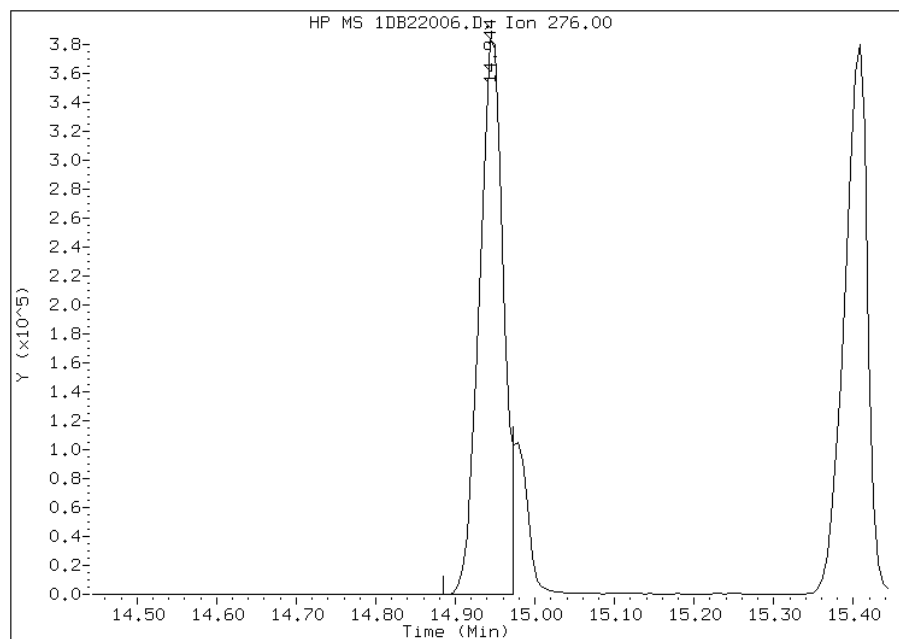
## Processing Integration Results

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 ( ug/l)	
* 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

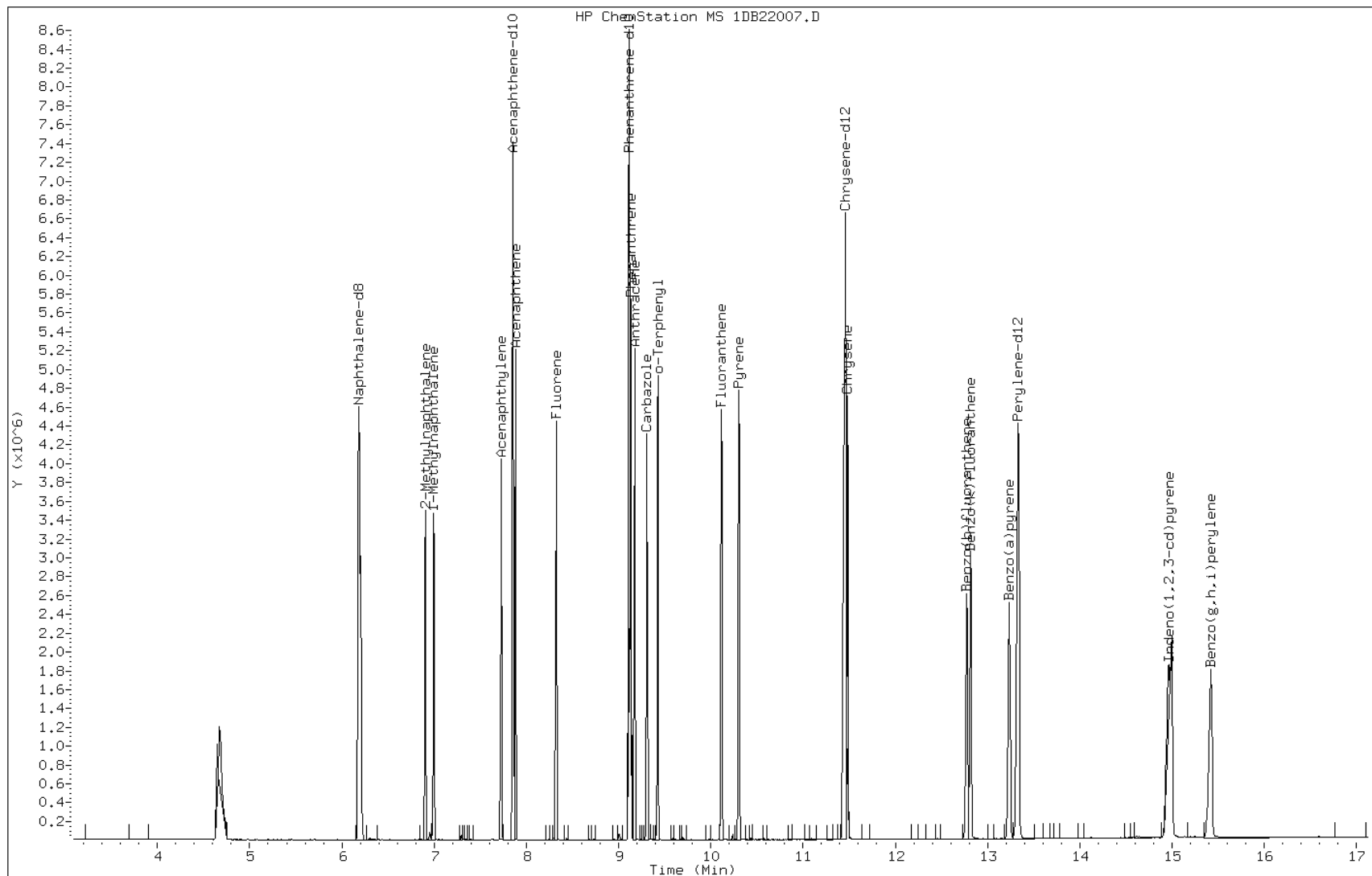
Date: 22-FEB-2013 13:43

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	CAL-AMT ( ug/l)	
* 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

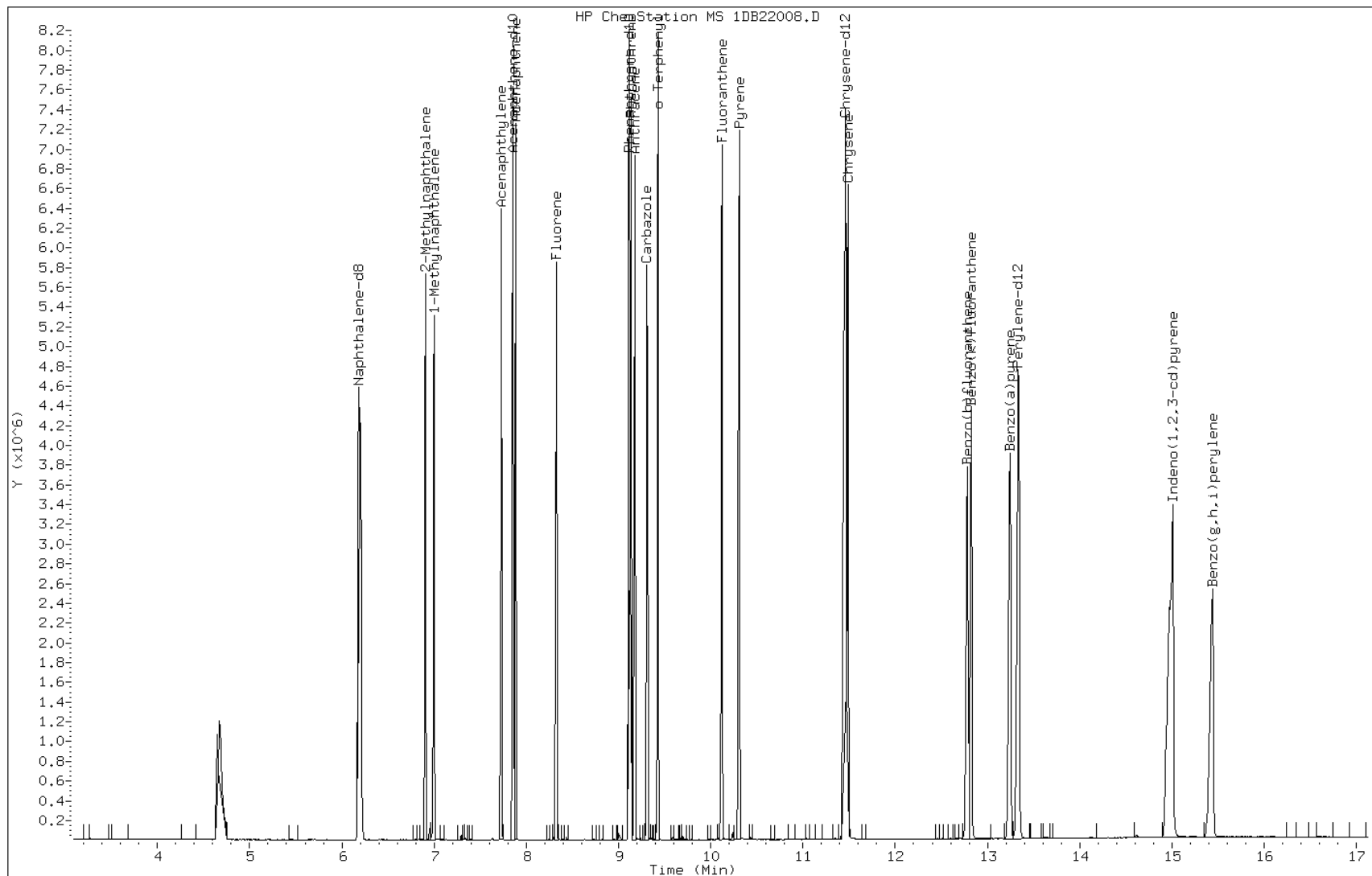
Date: 22-FEB-2013 14:06

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512373

Operator: SCC



TestAmerica Laboratories

Semivolatiles 8270/8310 low level PAH

Data file : \\tam-chemsvr\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-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 14:06 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

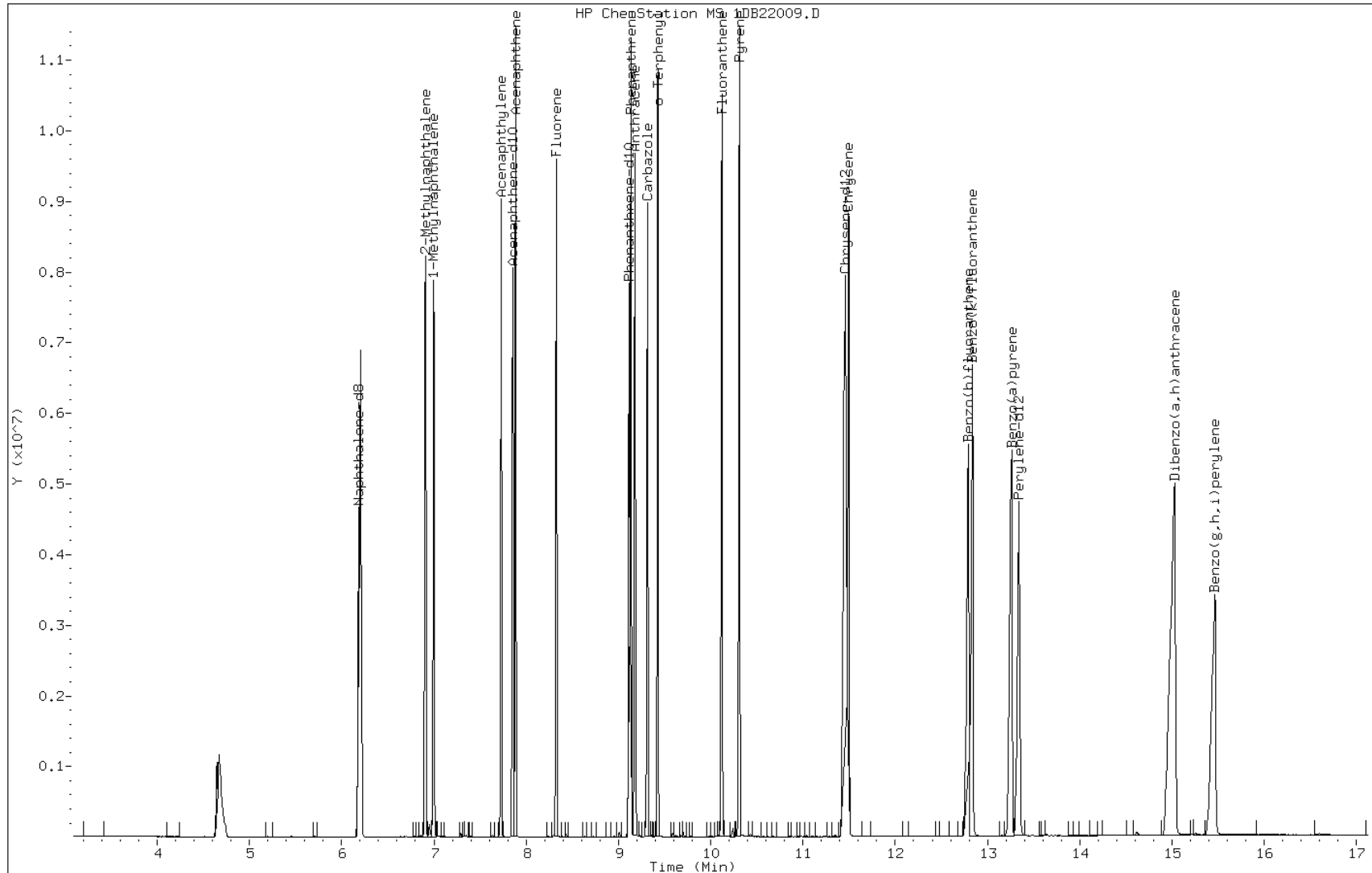
Date: 22-FEB-2013 14:28

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512374

Operator: SCC

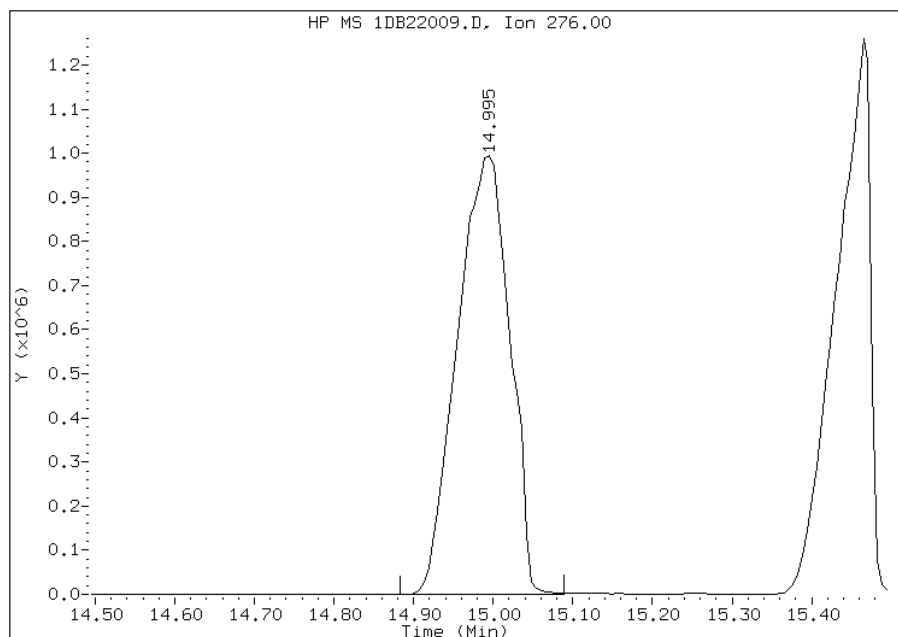


# Manual Integration Report

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

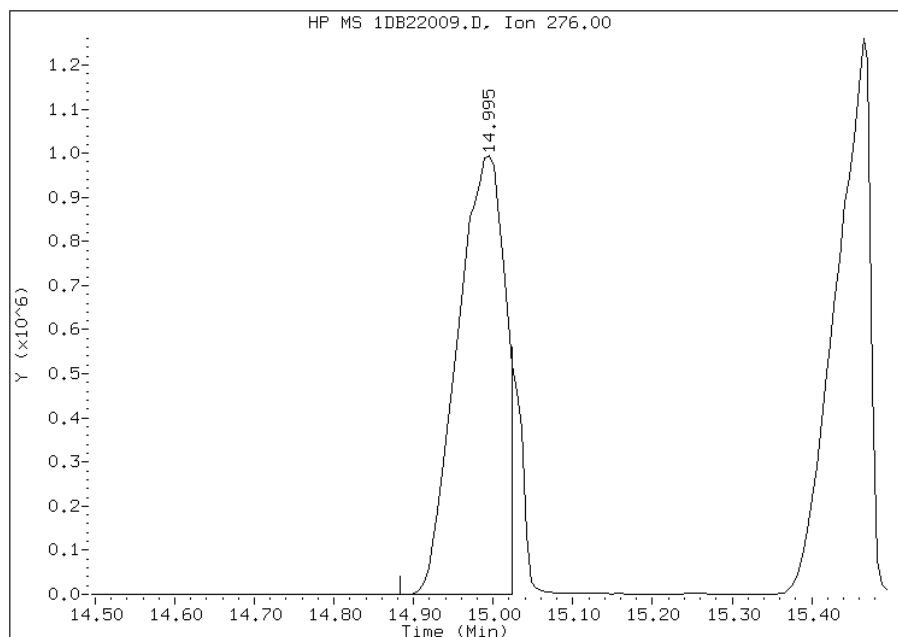
## Processing Integration Results

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.: 680-88420-1  
 SDG No.: 68088420-1  
 Lab Sample ID: ICV 660-135466/10 Calibration Date: 03/15/2013 14:39  
 Instrument ID: BSMA5973 Calib Start Date: 03/15/2013 12:54  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 03/15/2013 14:25  
 Lab File ID: 1AC15010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9241	0.8127	0.0000	17600	20000	-12.1	35.0
2-Methylnaphthalene	Lin	0.4655	0.4454	0.0000	16600	20000	-17.0	35.0
1-Methylnaphthalene	Ave	0.5314	0.4701	0.0000	17700	20000	-11.5	35.0
Acenaphthylene	Qua	1.438	1.431	0.0000	18900	20000	-5.6	35.0
Acenaphthene	Qua	0.8158	0.7621	0.0000	17500	20000	-12.4	35.0
Fluorene	Qua	1.029	0.9558	0.0000	18100	20000	-9.3	35.0
Phenanthrene	Ave	1.014	0.8372	0.0000	16500	20000	-17.4	35.0
Anthracene	Ave	0.9830	0.8213	0.0000	16700	20000	-16.5	35.0
Carbazole	Ave	0.8616	0.6430	0.0000	14900	20000	-25.4	35.0
Fluoranthene	Ave	1.002	0.8708	0.0000	17400	20000	-13.1	35.0
Pyrene	Ave	1.147	0.9863	0.0000	17200	20000	-14.0	35.0
Benzo[a]anthracene	Lin	1.289	1.034	0.0000	18000	20000	-10.0	35.0
Chrysene	Ave	1.036	0.8884	0.0000	17200	20000	-14.2	35.0
Benzo[b]fluoranthene	Lin	0.9107	0.8244	0.0000	16200	20000	-19.2	35.0
Benzo[k]fluoranthene	Ave	1.079	0.9294	0.0000	17200	20000	-13.9	35.0
Benzo[a]pyrene	Ave	0.9387	0.6809	0.0000	14500	20000	-27.5	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.8470	0.6791	0.0000	16000	20000	-19.8	35.0
Dibenz(a,h)anthracene	Ave	0.8395	0.7632	0.0000	18200	20000	-9.1	35.0
Benzo[g,h,i]perylene	Ave	0.8526	0.6704	0.0000	15700	20000	-21.4	35.0
o-Terphenyl	Qua	0.5732	0.4541	0.0000	16500	20000	-17.6	35.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15010.D  
 Lab Smp Id: ICV-1448440  
 Inj Date : 15-MAR-2013 14:39  
 Operator : SCC  
 Smp Info : ICV-1448440  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m  
 Meth Date : 15-Mar-2013 14:58 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D  
 Als bottle: 10 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Inst ID: BSMA5973.i  
 Compound Sublist: pah.sub

Concentration Formula: Amt \* DF \* 1/Vi \* Vt/Vo \* A \* B \* C \* D \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL ( ug/l)
* 1 Naphthalene-d8	136	2.305	2.303	(1.000)	495704	40.0000		
* 6 Acenaphthene-d10	164	3.325	3.324	(1.000)	291089	40.0000		
* 10 Phenanthrene-d10	188	4.250	4.248	(1.000)	473626	40.0000		
\$ 14 o-Terphenyl	230	4.522	4.526	(1.064)	107532	16.4780	16.4780	
* 18 Chrysene-d12	240	6.242	6.246	(1.000)	433094	40.0000		
* 23 Perylene-d12	264	7.327	7.330	(1.000)	475583	40.0000		
2 Naphthalene	128	2.316	2.314	(1.005)	201427	17.5881	17.5881	
3 2-Methylnaphthalene	141	2.716	2.715	(1.178)	110399	16.5942	16.5942	
4 1-Methylnaphthalene	142	2.770	2.773	(1.202)	116516	17.6931	17.6931	
5 Acenaphthylene	152	3.240	3.238	(0.974)	208291	18.8736	18.8735	
7 Acenaphthene	154	3.347	3.345	(1.006)	110915	17.5296	17.5296	
9 Fluorene	166	3.651	3.649	(1.098)	139114	18.1415	18.1415	
11 Phenanthrene	178	4.266	4.264	(1.004)	198264	16.5166	16.5166	
12 Anthracene	178	4.298	4.296	(1.011)	194486	16.7093	16.7093	
13 Carbazole	167	4.453	4.456	(1.048)	152266	14.9256	14.9256(M)	
15 Fluoranthene	202	5.110	5.113	(1.202)	206210	17.3785	17.3785	
16 Pyrene	202	5.275	5.279	(0.845)	213575	17.1991	17.1990	
17 Benzo(a)anthracene	228	6.237	6.235	(0.999)	223832	17.9907	17.9907	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL ( ug/l)
-----	----		-----	-----	-----	-----	-----	-----
19 Chrysene	228		6.258	6.262	(1.003)	192383	17.1506	17.1505
20 Benzo(b)fluoranthene	252		7.049	7.052	(0.962)	196044	16.1625	16.1625
21 Benzo(k)fluoranthene	252		7.070	7.074	(0.965)	221006	17.2278	17.2278
22 Benzo(a)pyrene	252		7.279	7.282	(0.993)	161910	14.5068	14.5068
24 Indeno(1,2,3-cd)pyrene	276		8.032	8.035	(1.096)	161474	16.0342	16.0342(M)
25 Dibenzo(a,h)anthracene	278		8.043	8.045	(1.098)	181488	18.1835	18.1835
26 Benzo(g,h,i)perylene	276		8.214	8.222	(1.121)	159418	15.7263	15.7262

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AC15010.D

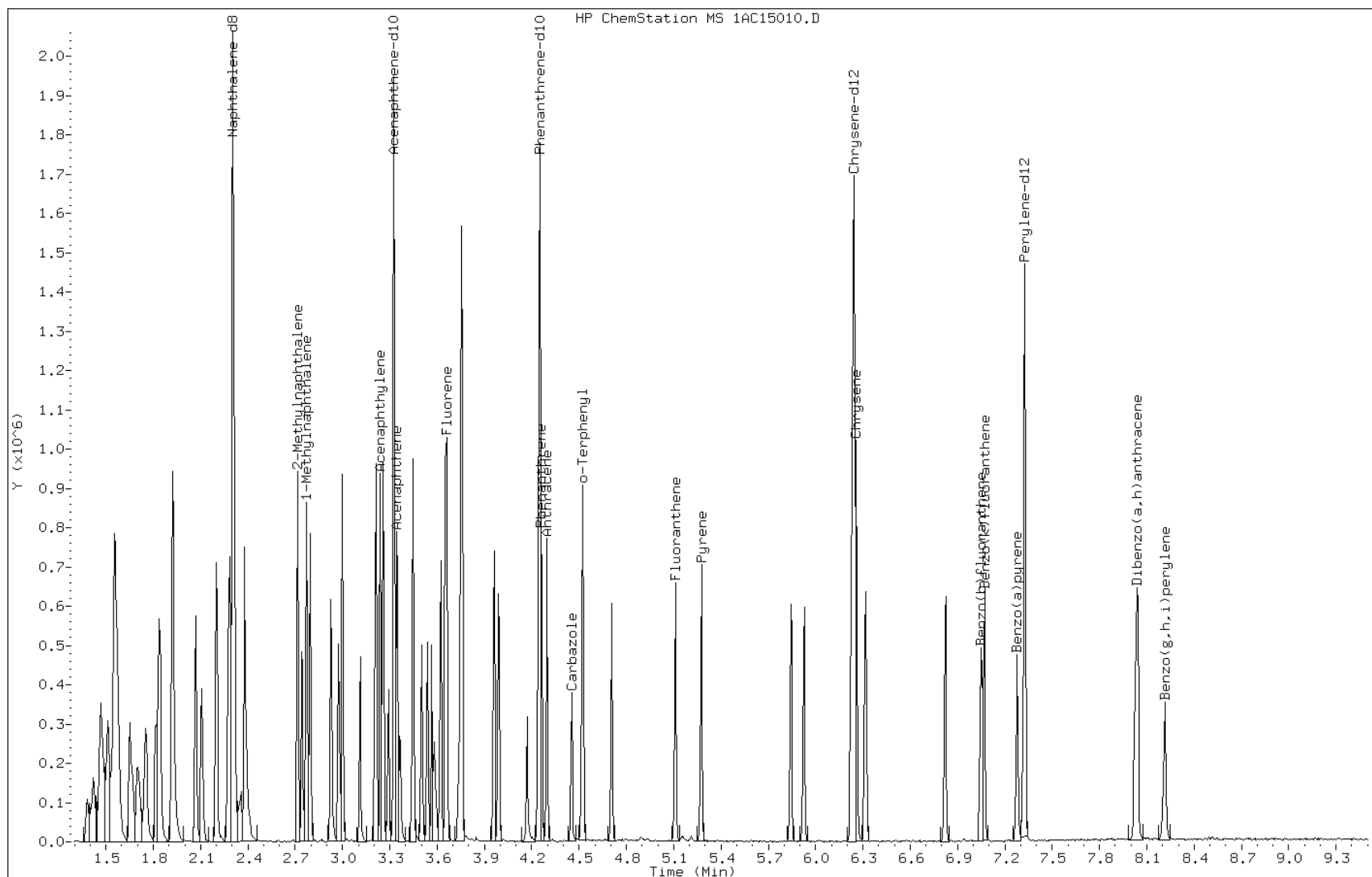
Date: 15-MAR-2013 14:39

Client ID:

Instrument: BSMA5973.i

Sample Info: ICV-1448440

Operator: SCC

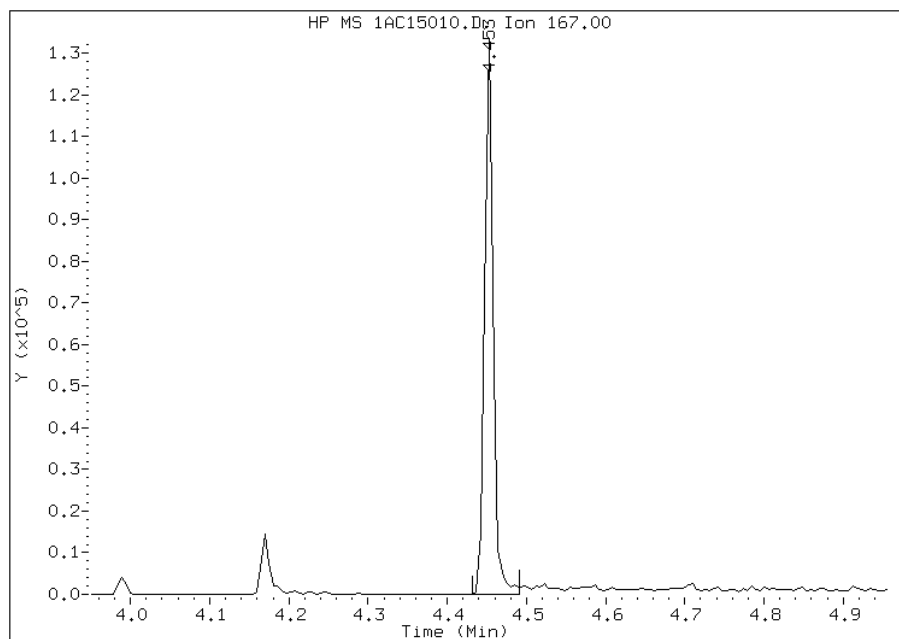


Manual Integration Report

Data File: 1AC15010.D  
Inj. Date and Time: 15-MAR-2013 14:39  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 13 Carbazole  
CAS #: 86-74-8  
Report Date: 03/15/2013

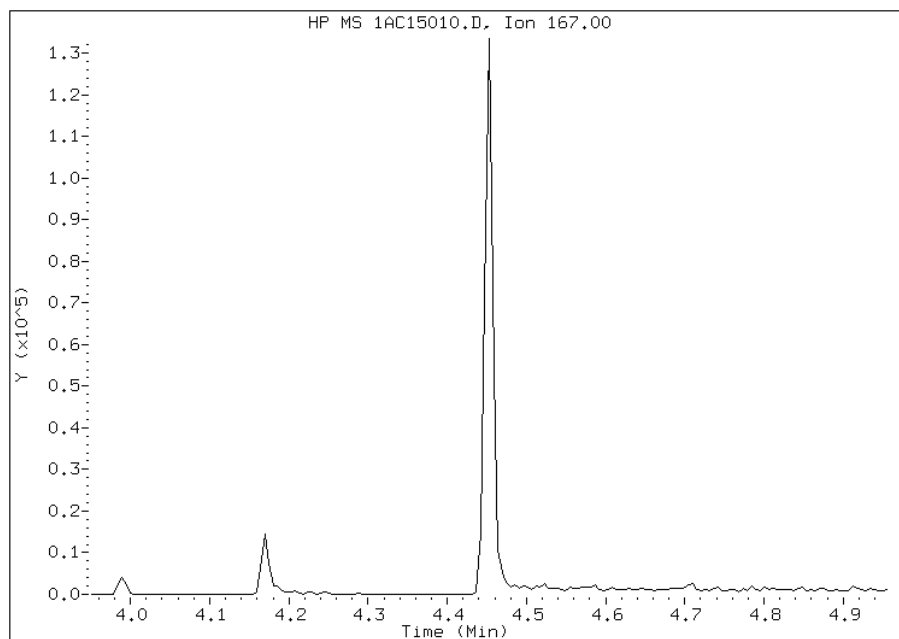
Processing Integration Results

RT: 4.45  
Response: 95852  
Amount: 9  
Conc: 9



Manual Integration Results

RT: 4.45  
Response: 152266  
Amount: 15  
Conc: 15



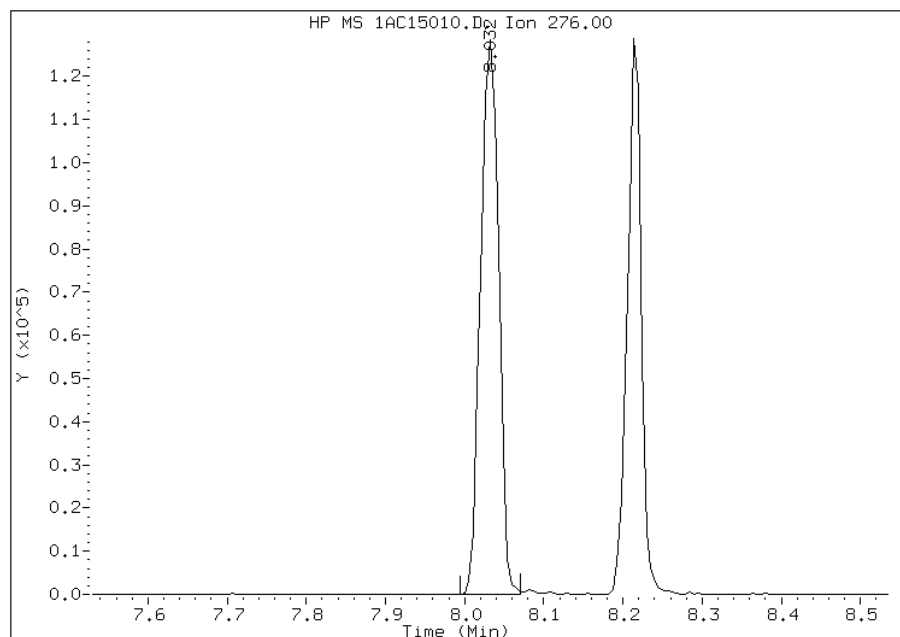
Manually Integrated By: cantins  
Modification Date: 15-Mar-2013 15:02  
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AC15010.D  
Inj. Date and Time: 15-MAR-2013 14:39  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/15/2013

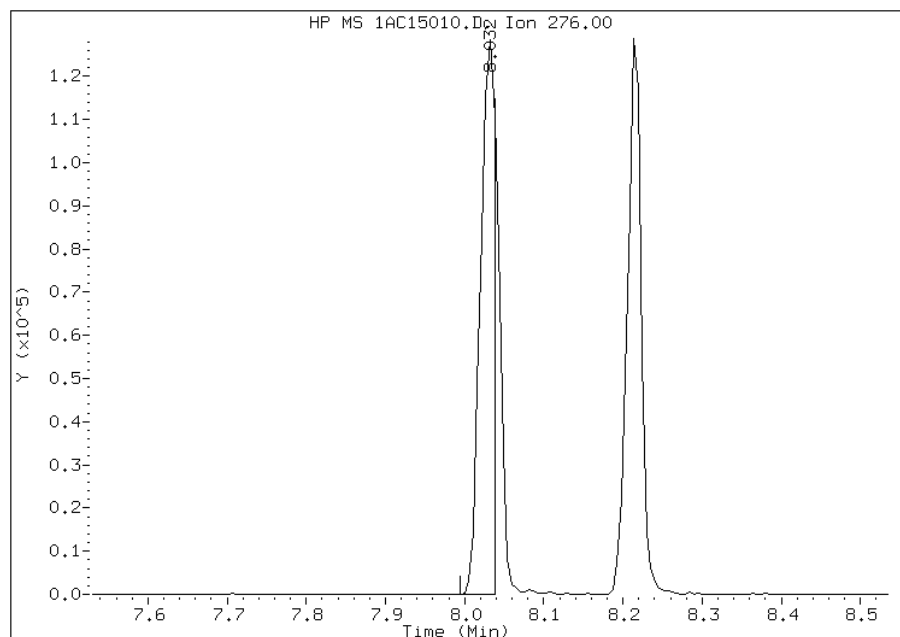
Processing Integration Results

RT: 8.03  
Response: 202054  
Amount: 20  
Conc: 20



Manual Integration Results

RT: 8.03  
Response: 161474  
Amount: 16  
Conc: 16



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



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Lab Sample ID: CCVIS 660-135630/9 Calibration Date: 03/21/2013 16:57  
 Instrument ID: BSMA5973 Calib Start Date: 03/15/2013 12:54  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 03/15/2013 14:25  
 Lab File ID: 1AC21008.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9241	0.9311	0.0000	20200	20000	0.8	20.0
2-Methylnaphthalene	Lin	0.4655	0.4764	0.0000	17700	20000	-11.6	20.0
1-Methylnaphthalene	Ave	0.5314	0.5412	0.0000	20400	20000	1.8	20.0
Acenaphthylene	Qua	1.438	1.397	0.0000	18500	20000	-7.7	20.0
Acenaphthene	Qua	0.8158	0.8016	0.0000	18300	20000	-8.3	20.0
Fluorene	Qua	1.029	0.9918	0.0000	18800	20000	-6.2	20.0
Phenanthrene	Ave	1.014	1.002	0.0000	19800	20000	-1.2	20.0
Anthracene	Ave	0.9830	0.9350	0.0000	19000	20000	-4.9	20.0
Carbazole	Ave	0.8616	0.7797	0.0000	18100	20000	-9.5	20.0
Fluoranthene	Ave	1.002	0.9708	0.0000	19400	20000	-3.1	20.0
Pyrene	Ave	1.147	1.322	0.0000	23100	20000	15.3	20.0
Benzo[a]anthracene	Lin	1.289	1.154	0.0000	20100	20000	0.3	20.0
Chrysene	Ave	1.036	1.045	0.0000	20200	20000	0.9	20.0
Benzo[b]fluoranthene	Lin	0.9107	0.9745	0.0000	18900	20000	-5.6	20.0
Benzo[k]fluoranthene	Ave	1.079	1.027	0.0000	19000	20000	-4.8	20.0
Benzo[a]pyrene	Ave	0.9387	0.9115	0.0000	19400	20000	-2.9	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.8470	0.7507	0.0000	17700	20000	-11.4	20.0
Dibenz(a,h)anthracene	Ave	0.8395	0.8486	0.0000	20200	20000	1.1	20.0
Benzo[g,h,i]perylene	Ave	0.8526	0.8012	0.0000	18800	20000	-6.0	20.0
o-Terphenyl	Qua	0.5732	0.5480	0.0000	19600	20000	-2.2	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\1AC21008.D  
 Lab Smp Id: CCVIS-1512372  
 Inj Date : 21-MAR-2013 16:57  
 Operator : SCC  
 Smp Info : CCVIS-1512372  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\a-bFASTPAHi-m.m  
 Meth Date : 21-Mar-2013 17:07 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D  
 Als bottle: 3 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.282	2.282	(1.000)	532825	40.0000	
* 6 Acenaphthene-d10	164	3.302	3.302	(1.000)	367475	40.0000	
* 10 Phenanthrene-d10	188	4.221	4.221	(1.000)	534008	40.0000	(H)
\$ 14 o-Terphenyl	230	4.499	4.499	(1.066)	146308	20.0000	19.5546
* 18 Chrysene-d12	240	6.208	6.208	(1.000)	425959	40.0000	(H)
* 23 Perylene-d12	264	7.292	7.292	(1.000)	463345	40.0000	(H)
2 Naphthalene	128	2.292	2.292	(1.005)	248053	20.0000	20.1504
3 2-Methylnaphthalene	141	2.693	2.693	(1.180)	126928	20.0000	17.6882
4 1-Methylnaphthalene	142	2.752	2.752	(1.206)	144170	20.0000	20.3672
5 Acenaphthylene	152	3.216	3.216	(0.974)	256756	20.0000	18.4681
7 Acenaphthene	154	3.318	3.318	(1.005)	147278	20.0000	18.3433
9 Fluorene	166	3.628	3.628	(1.099)	182222	20.0000	18.7516
11 Phenanthrene	178	4.237	4.237	(1.004)	267435	20.0000	19.7598(H)
12 Anthracene	178	4.269	4.269	(1.011)	249644	20.0000	19.0230
13 Carbazole	167	4.424	4.424	(1.048)	208192	20.0000	18.1001(H)
15 Fluoranthene	202	5.081	5.081	(1.204)	259199	20.0000	19.3742(H)
16 Pyrene	202	5.246	5.246	(0.845)	281546	20.0000	23.0525(H)
17 Benzo(a)anthracene	228	6.197	6.197	(0.998)	245717	20.0000	20.0610(H)
19 Chrysene	228	6.224	6.224	(1.003)	222559	20.0000	20.1730(M)
20 Benzo(b)fluoranthene	252	7.015	7.015	(0.962)	225775	20.0000	18.8863(H)
21 Benzo(k)fluoranthene	252	7.036	7.036	(0.965)	237860	20.0000	19.0313(H)
22 Benzo(a)pyrene	252	7.244	7.244	(0.993)	211168	20.0000	19.4199(H)
24 Indeno(1,2,3-cd)pyrene	276	7.987	7.987	(1.095)	173911	20.0000	17.7253(MH)
25 Dibenzo(a,h)anthracene	278	7.998	7.998	(1.097)	196590	20.0000	20.2168(H)
26 Benzo(g,h,i)perylene	276	8.169	8.169	(1.120)	185619	20.0000	18.7945(H)

QC Flag Legend

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

Data File: 1AC21008.D

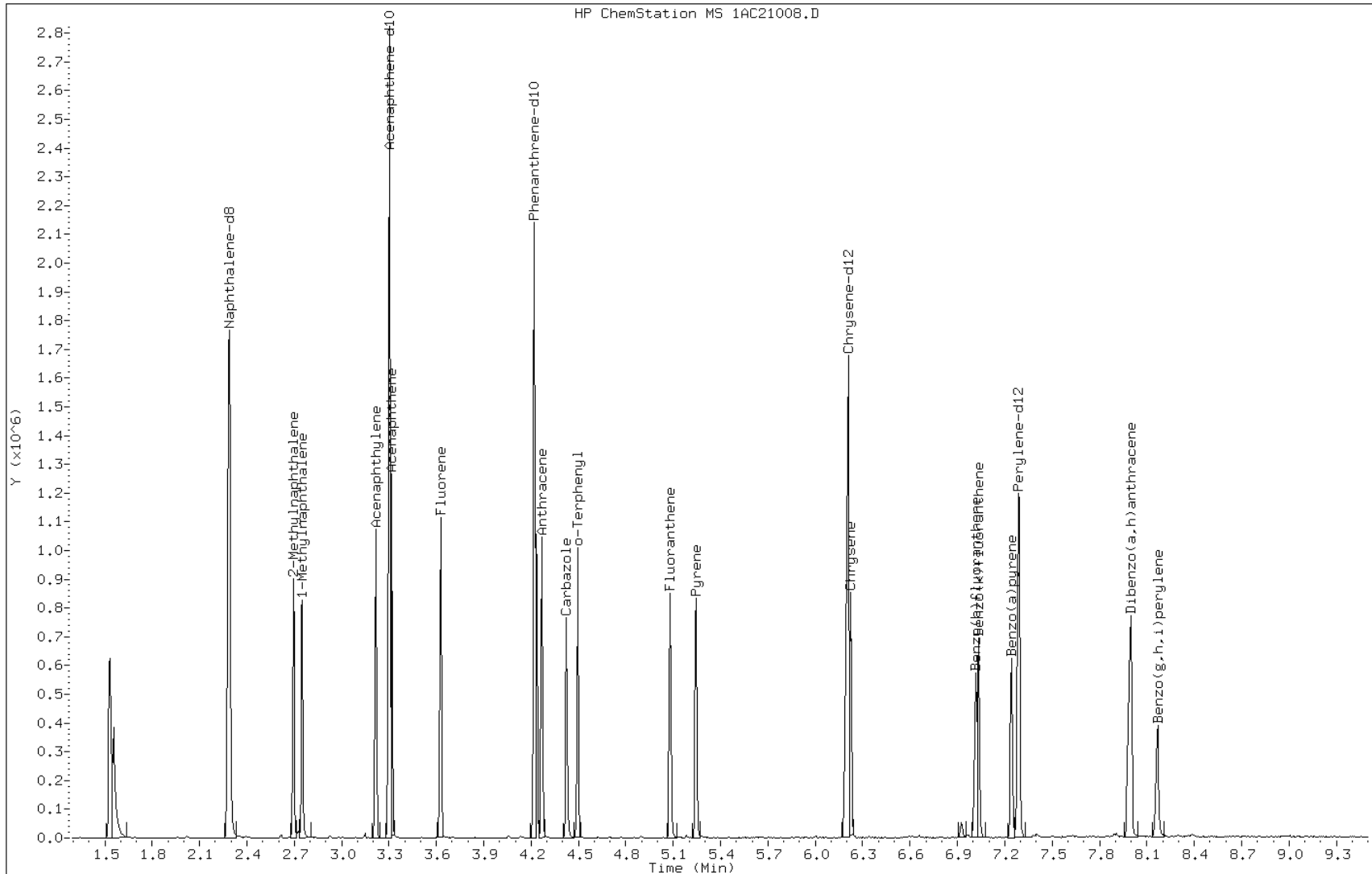
Date: 21-MAR-2013 16:57

Client ID:

Instrument: BSMA5973.i

Sample Info: CCVIS-1512372

Operator: SCC

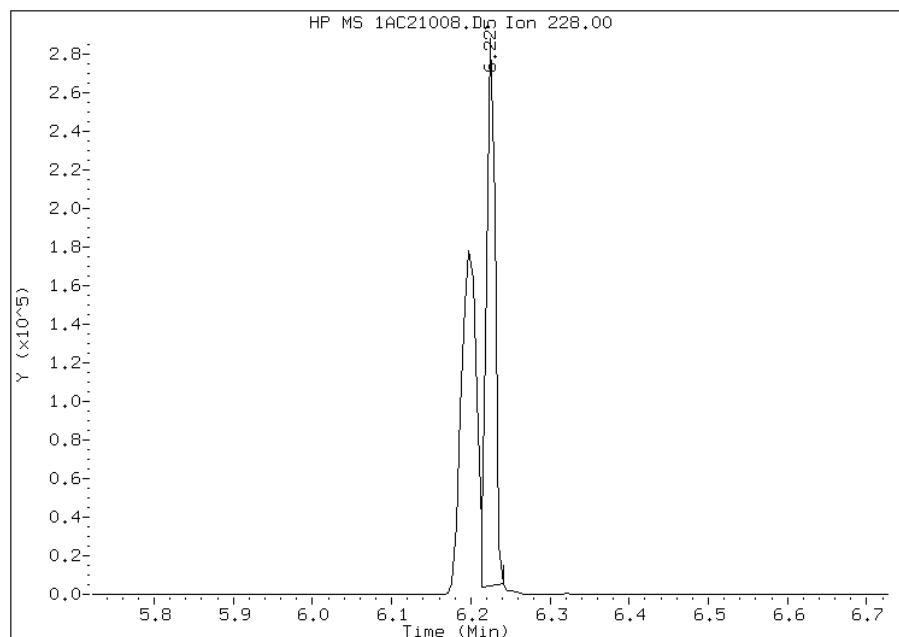


# Manual Integration Report

Data File: 1AC21008.D  
Inj. Date and Time: 21-MAR-2013 16:57  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 19 Chrysene  
CAS #: 218-01-9  
Report Date: 03/26/2013

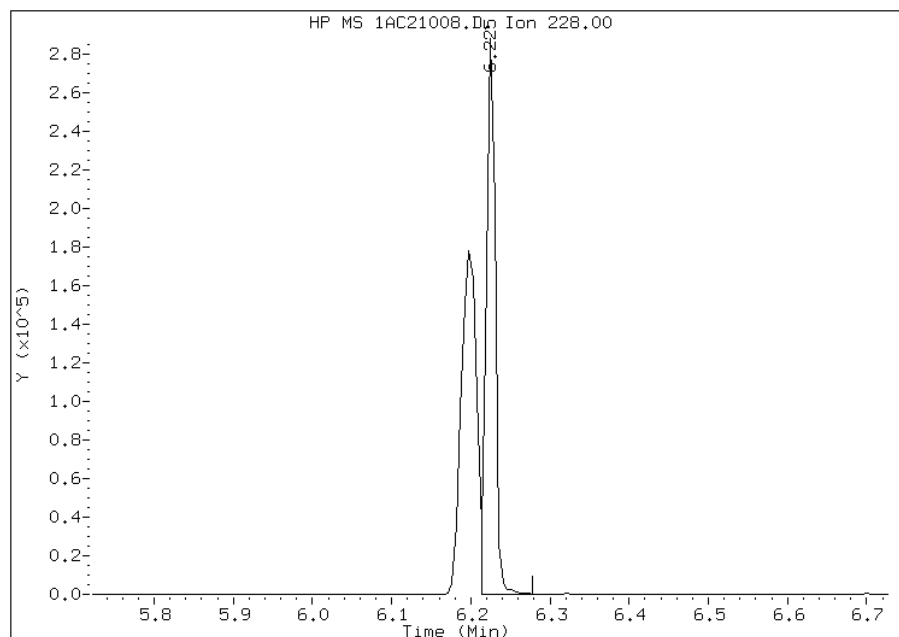
## Processing Integration Results

RT: 6.22  
Response: 210602  
Amount: 19  
Conc: 19



## Manual Integration Results

RT: 6.22  
Response: 222559  
Amount: 20  
Conc: 20



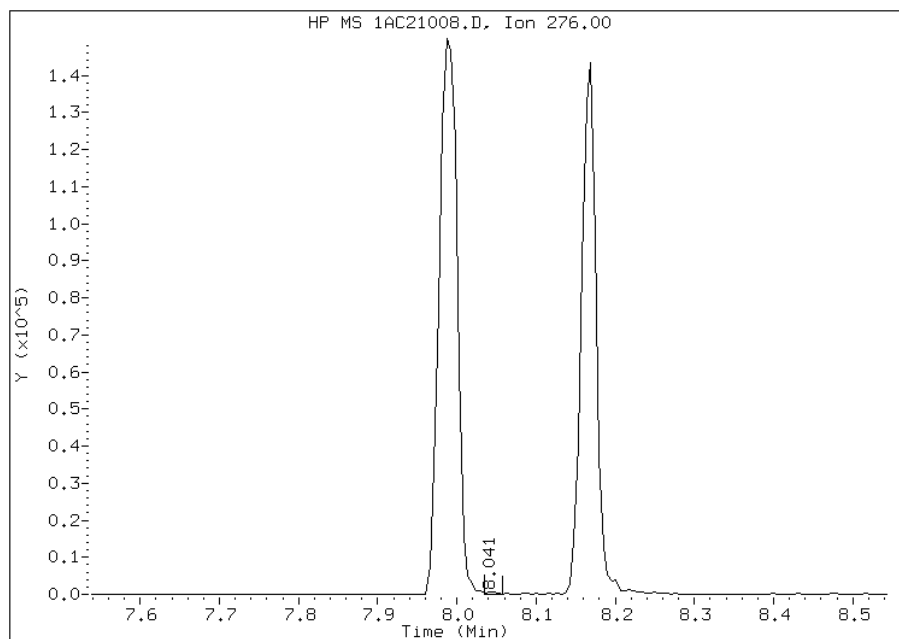
Manually Integrated By: cantins  
Modification Date: 21-Mar-2013 17:08  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AC21008.D  
Inj. Date and Time: 21-MAR-2013 16:57  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/26/2013

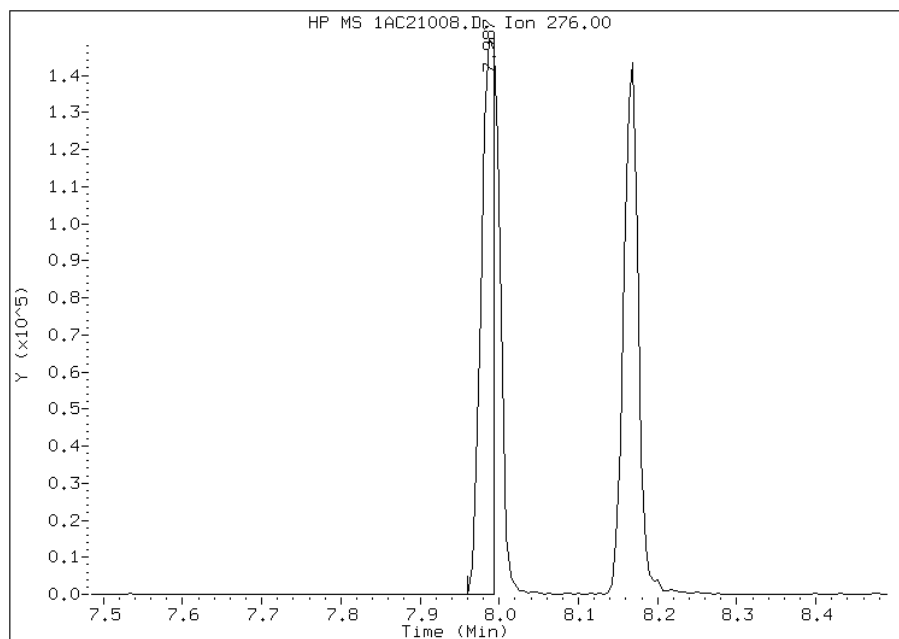
## Processing Integration Results

RT: 8.04  
Response: 618  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 7.99  
Response: 173911  
Amount: 18  
Conc: 18



Manually Integrated By: cantins  
Modification Date: 21-Mar-2013 17:08  
Manual Integration Reason: Split Peak

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Lab Sample ID: CCVIS 660-135850/3 Calibration Date: 03/26/2013 11:28  
 Instrument ID: BSMA5973 Calib Start Date: 03/15/2013 12:54  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 03/15/2013 14:25  
 Lab File ID: 1AC26003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9241	0.9131	0.0000	19800	20000	-1.2	20.0
2-Methylnaphthalene	Lin	0.4655	0.4916	0.0000	18200	20000	-8.9	20.0
1-Methylnaphthalene	Ave	0.5314	0.5338	0.0000	20100	20000	0.4	20.0
Acenaphthylene	Qua	1.438	1.382	0.0000	18300	20000	-8.6	20.0
Acenaphthene	Qua	0.8158	0.7886	0.0000	18100	20000	-9.6	20.0
Fluorene	Qua	1.029	0.9897	0.0000	18700	20000	-6.4	20.0
Phenanthrene	Ave	1.014	0.9698	0.0000	19100	20000	-4.3	20.0
Anthracene	Ave	0.9830	0.8829	0.0000	18000	20000	-10.2	20.0
Carbazole	Ave	0.8616	0.7742	0.0000	18000	20000	-10.1	20.0
Fluoranthene	Ave	1.002	0.9577	0.0000	19100	20000	-4.4	20.0
Pyrene	Ave	1.147	1.005	0.0000	17500	20000	-12.3	20.0
Benzo[a]anthracene	Lin	1.289	1.066	0.0000	18600	20000	-7.2	20.0
Chrysene	Ave	1.036	0.9874	0.0000	19100	20000	-4.7	20.0
Benzo[b]fluoranthene	Lin	0.9107	0.9212	0.0000	17900	20000	-10.4	20.0
Benzo[k]fluoranthene	Ave	1.079	1.069	0.0000	19800	20000	-0.9	20.0
Benzo[a]pyrene	Ave	0.9387	0.9058	0.0000	19300	20000	-3.5	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.8470	0.8163	0.0000	19300	20000	-3.6	20.0
Dibenz(a,h)anthracene	Ave	0.8395	0.8601	0.0000	20500	20000	2.5	20.0
Benzo[g,h,i]perylene	Ave	0.8526	0.8025	0.0000	18800	20000	-5.9	20.0
o-Terphenyl	Qua	0.5732	0.5280	0.0000	18900	20000	-5.4	20.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26003.D  
 Lab Smp Id: CCVIS-1512372  
 Inj Date : 26-MAR-2013 11:28  
 Operator : SCC  
 Smp Info : CCVIS-1512372  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1A-bFASTPAHi-m.m  
 Meth Date : 26-Mar-2013 11:39 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D  
 Als bottle: 3 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.272	2.272	(1.000)	509128	40.0000	(H)
* 6 Acenaphthene-d10	164	3.287	3.287	(1.000)	363732	40.0000	(H)
* 10 Phenanthrene-d10	188	4.205	4.205	(1.000)	582610	40.0000	
\$ 14 o-Terphenyl	230	4.478	4.478	(1.065)	153815	20.0000	18.9101
* 18 Chrysene-d12	240	6.193	6.193	(1.000)	582279	40.0000	(H)
* 23 Perylene-d12	264	7.272	7.272	(1.000)	536475	40.0000	(H)
2 Naphthalene	128	2.282	2.282	(1.005)	232447	20.0000	19.7615(H)
3 2-Methylnaphthalene	141	2.683	2.683	(1.181)	125138	20.0000	18.2224(H)
4 1-Methylnaphthalene	142	2.736	2.736	(1.205)	135878	20.0000	20.0892(H)
5 Acenaphthylene	152	3.201	3.201	(0.974)	251313	20.0000	18.2805(H)
7 Acenaphthene	154	3.308	3.308	(1.007)	143410	20.0000	18.0759
9 Fluorene	166	3.612	3.612	(1.099)	179994	20.0000	18.7170(H)
11 Phenanthrene	178	4.221	4.221	(1.004)	282504	20.0000	19.1319
12 Anthracene	178	4.253	4.253	(1.011)	257184	20.0000	17.9627
13 Carbazole	167	4.408	4.408	(1.048)	225529	20.0000	17.9717
15 Fluoranthene	202	5.065	5.065	(1.204)	278971	20.0000	19.1126
16 Pyrene	202	5.226	5.226	(0.844)	292698	20.0000	17.5317(H)
17 Benzo(a)anthracene	228	6.177	6.177	(0.997)	310452	20.0000	18.5544(H)
19 Chrysene	228	6.209	6.209	(1.003)	287456	20.0000	19.0604(H)
20 Benzo(b)fluoranthene	252	6.994	6.994	(0.962)	247107	20.0000	17.9188(H)
21 Benzo(k)fluoranthene	252	7.015	7.015	(0.965)	286853	20.0000	19.8226(H)
22 Benzo(a)pyrene	252	7.224	7.224	(0.993)	242981	20.0000	19.2995(H)
24 Indeno(1,2,3-cd)pyrene	276	7.972	7.972	(1.096)	218959	20.0000	19.2745(MH)
25 Dibenzo(a,h)anthracene	278	7.982	7.982	(1.098)	230704	20.0000	20.4909(H)
26 Benzo(g,h,i)perylene	276	8.148	8.148	(1.120)	215259	20.0000	18.8246(H)

QC Flag Legend

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

Data File: 1AC26003.D

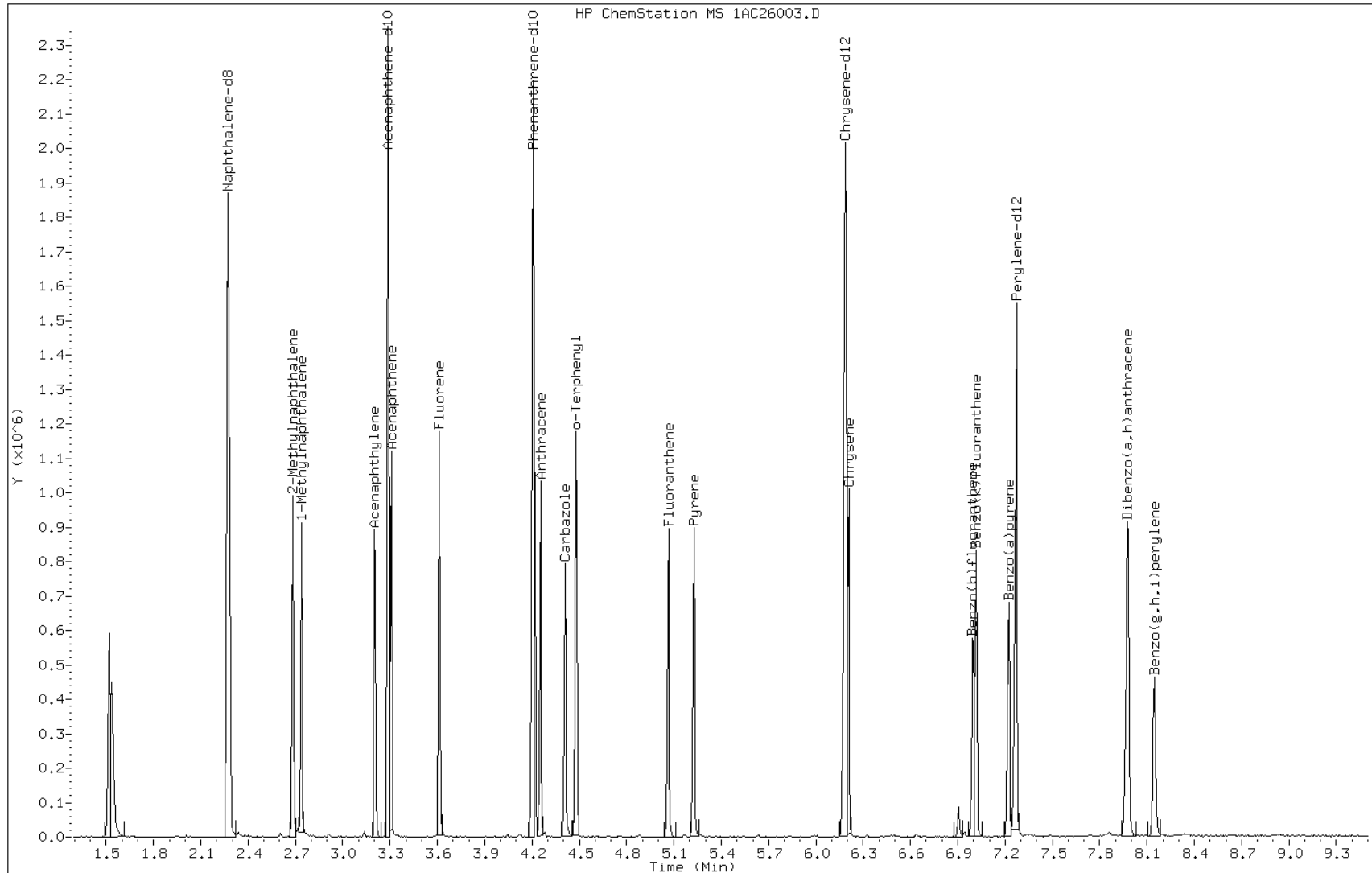
Date: 26-MAR-2013 11:28

Client ID:

Instrument: BSMA5973.i

Sample Info: CCVIS-1512372

Operator: SCC



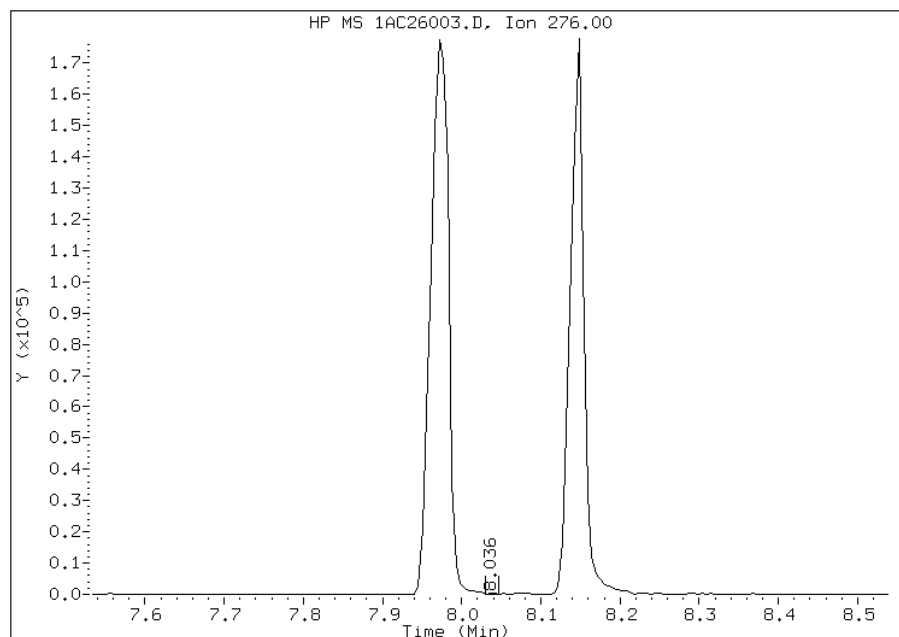


# Manual Integration Report

Data File: 1AC26003.D  
Inj. Date and Time: 26-MAR-2013 11:28  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/27/2013

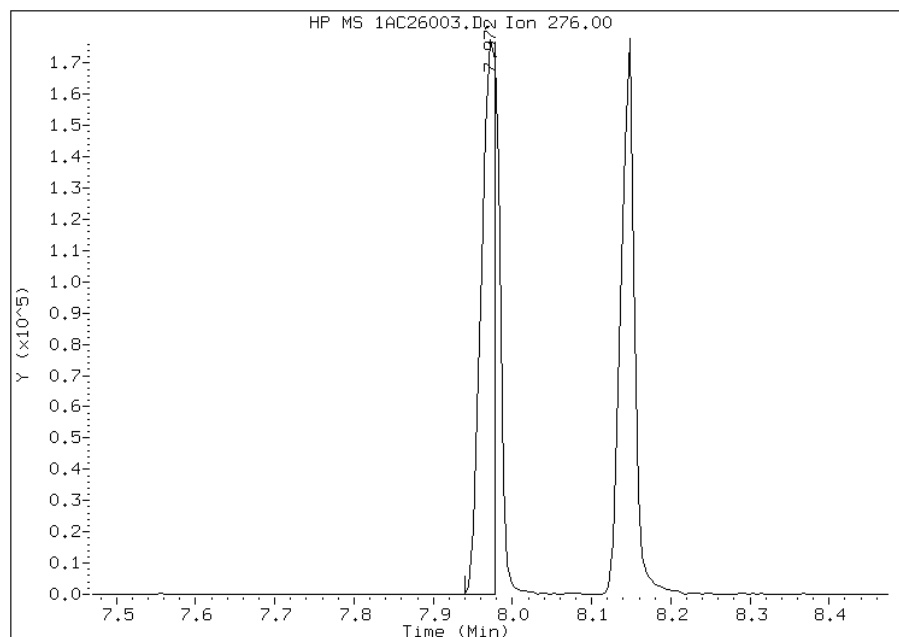
## Processing Integration Results

RT: 8.04  
Response: 205  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 7.97  
Response: 218959  
Amount: 19  
Conc: 19



Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 11:41  
Manual Integration Reason: Split Peak

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 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		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	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

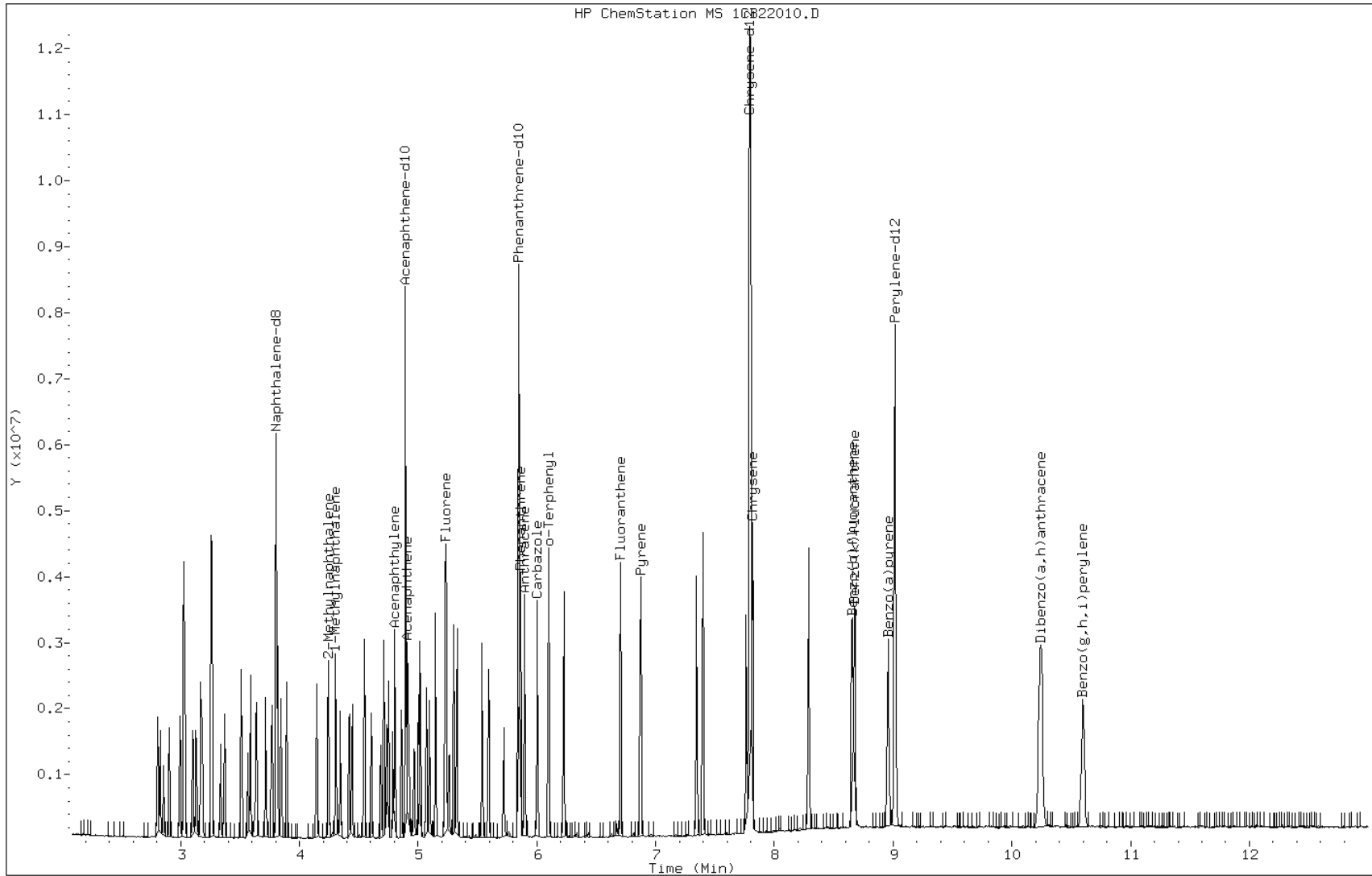
Date: 22-FEB-2013 14:06

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC

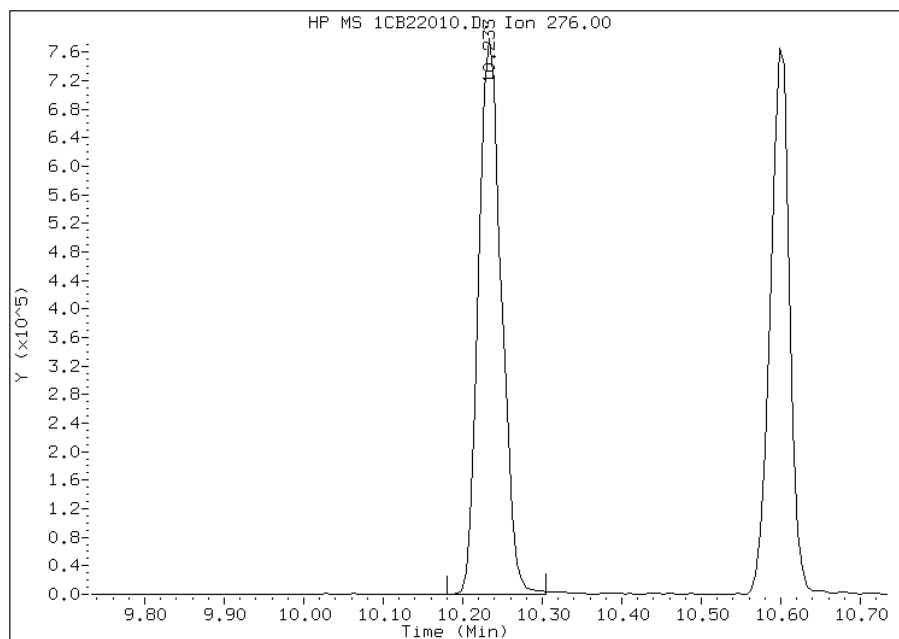


Manual Integration Report

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

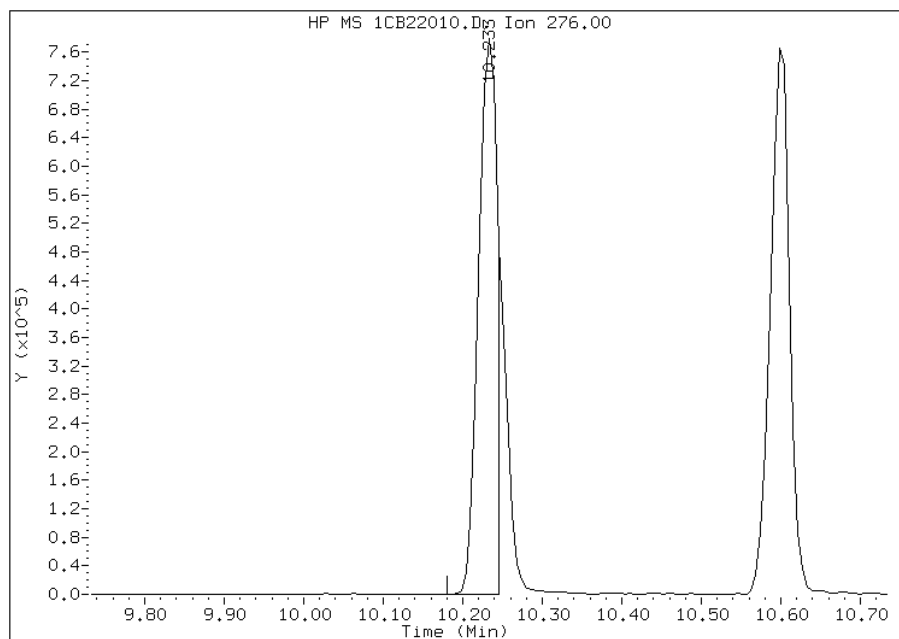
Processing Integration Results

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.: 680-88420-1  
 SDG No.: 68088420-1  
 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

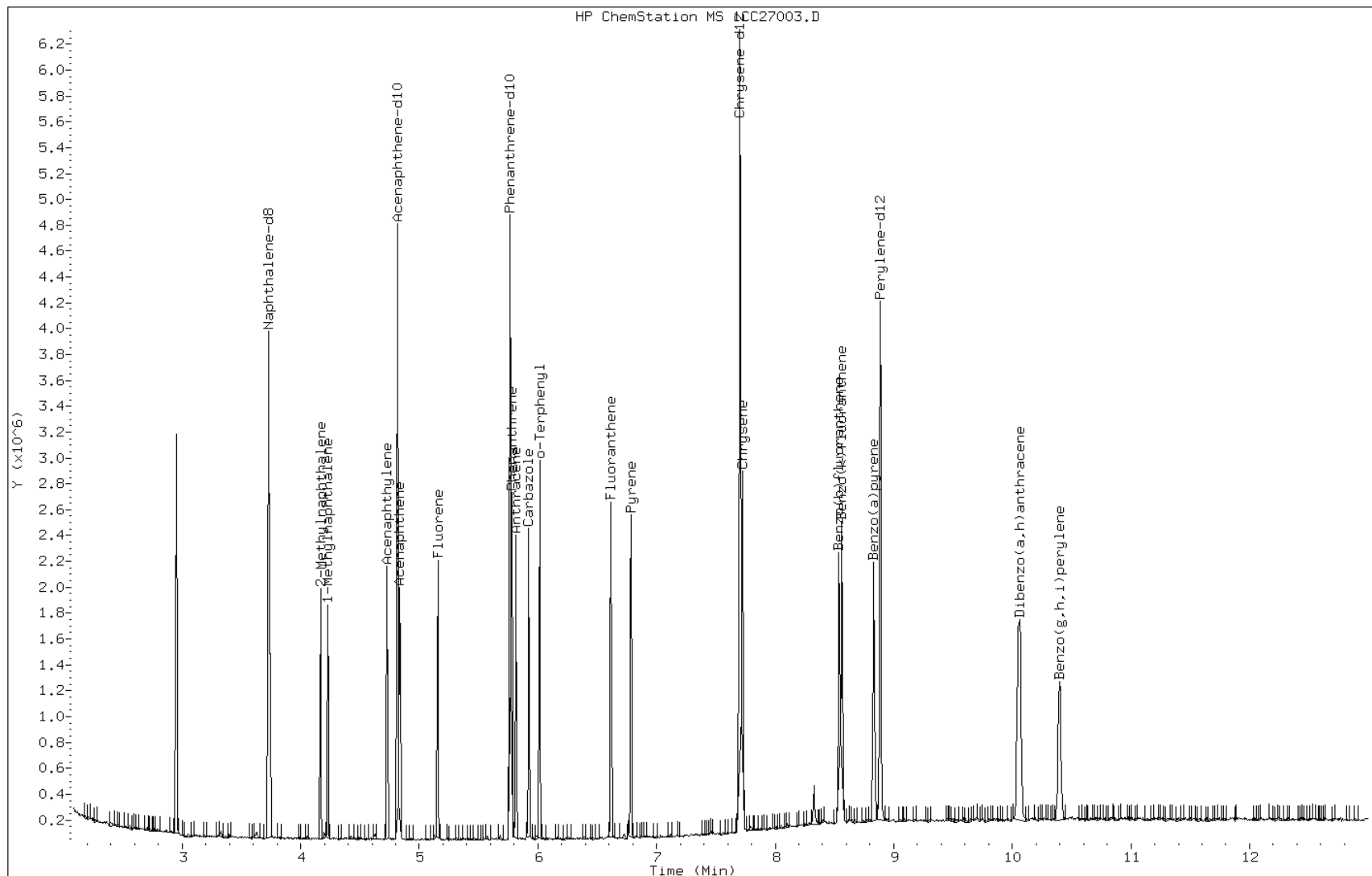
Date: 27-MAR-2013 10:35

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1512372

Operator: SCC

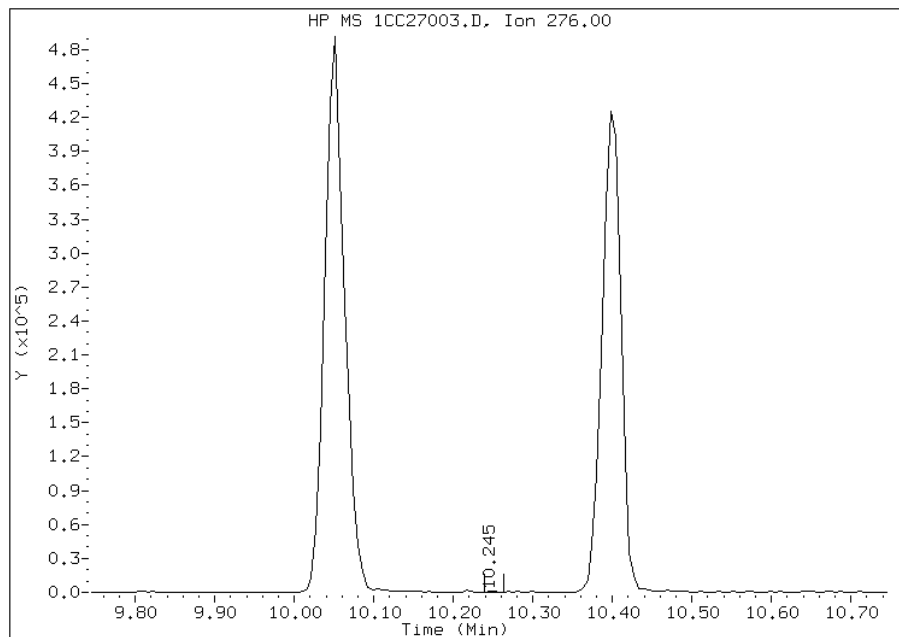


# Manual Integration Report

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

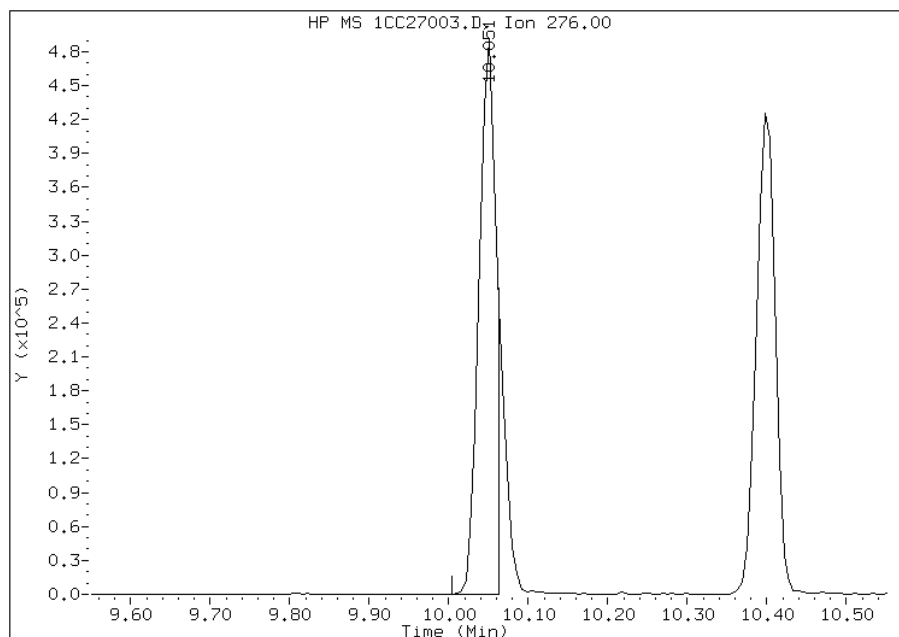
## Processing Integration Results

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.: 680-88420-1  
 SDG No.: 68088420-1  
 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

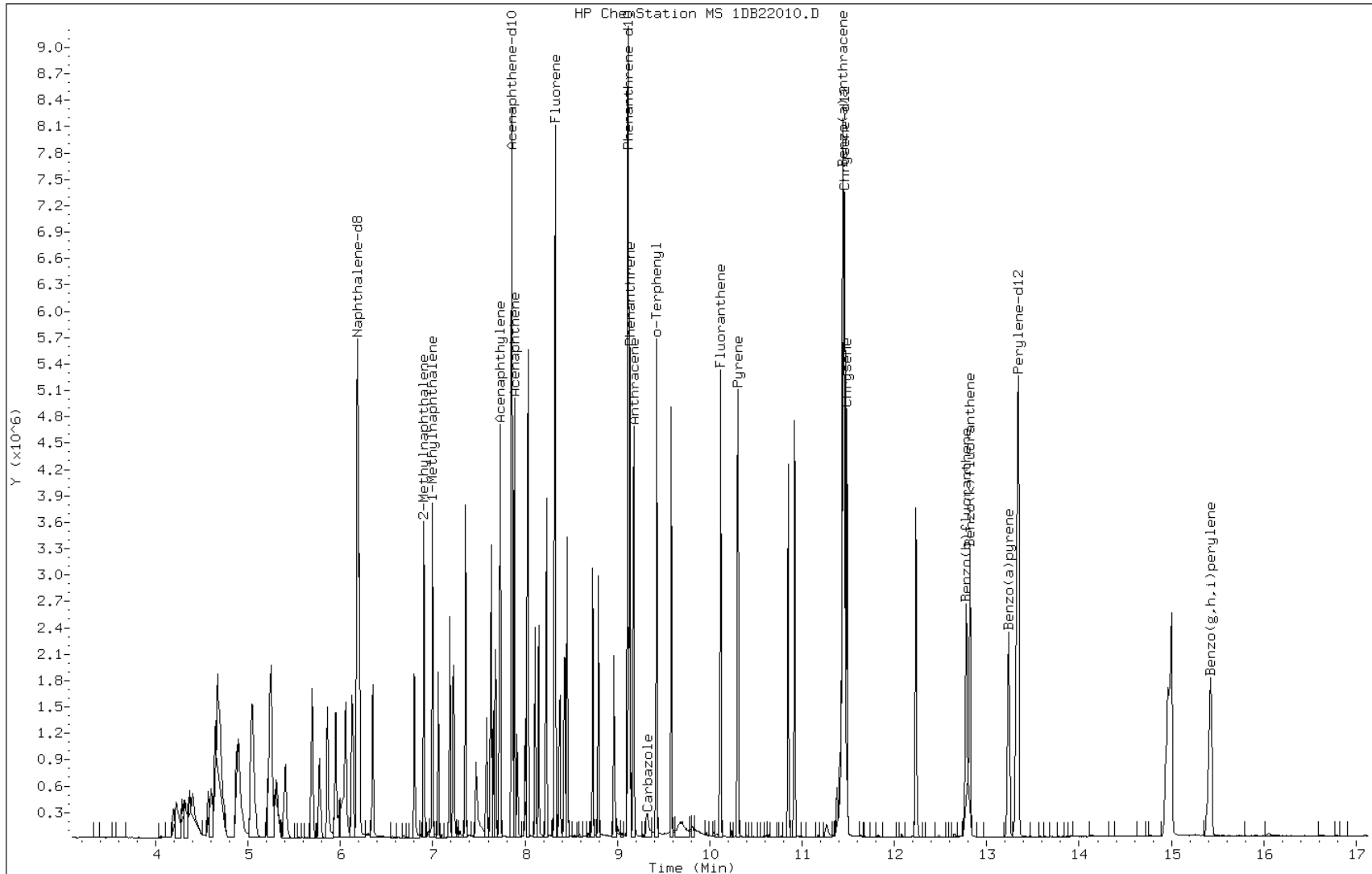
Date: 22-FEB-2013 14:51

Client ID:

Instrument: BSMSD.i

Sample Info: ICV-1448440

Operator: SCC

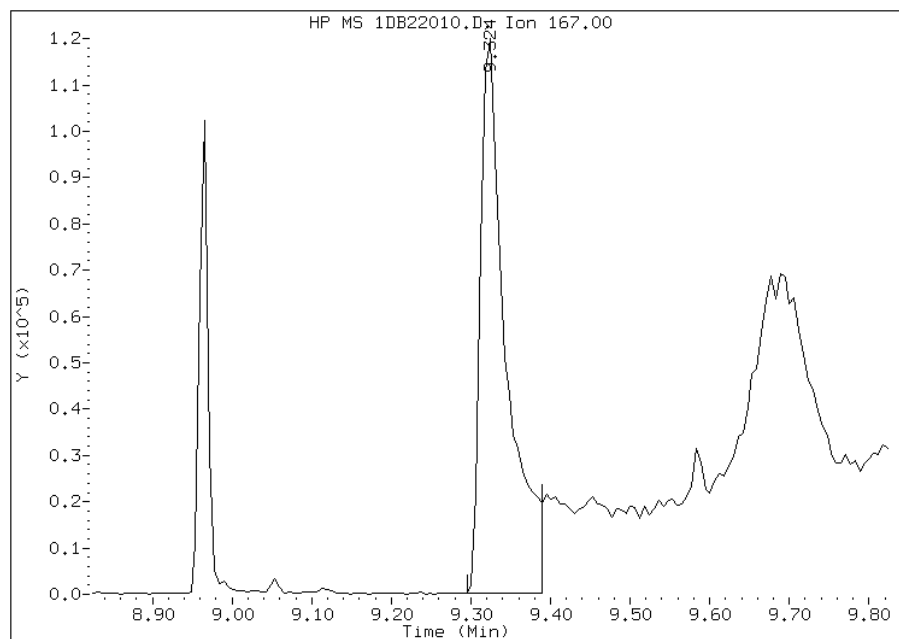


# Manual Integration Report

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

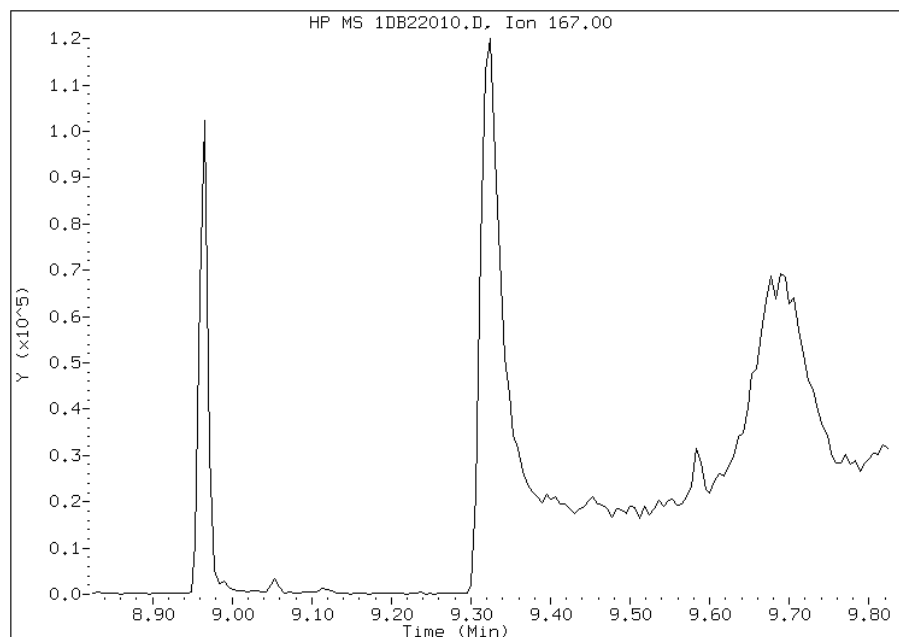
## Processing Integration Results

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.: 680-88420-1  
 SDG No.: 68088420-1  
 Lab Sample ID: CCVIS 660-135792/3 Calibration Date: 03/26/2013 10:32  
 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: 1DC26003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.070	1.035	0.0000	19400	20000	-3.2	20.0
2-Methylnaphthalene	Ave	0.6816	0.6731	0.0000	19800	20000	-1.2	20.0
1-Methylnaphthalene	Ave	0.6383	0.6551	0.0000	20500	20000	2.6	20.0
Acenaphthylene	Ave	1.764	1.708	0.0000	19400	20000	-3.1	20.0
Acenaphthene	Ave	1.075	1.015	0.0000	18900	20000	-5.6	20.0
Fluorene	Ave	1.256	1.193	0.0000	19000	20000	-5.1	20.0
Phenanthrene	Ave	1.135	1.089	0.0000	19200	20000	-4.1	20.0
Anthracene	Ave	1.136	1.096	0.0000	19300	20000	-3.5	20.0
Carbazole	Ave	1.016	0.9537	0.0000	18800	20000	-6.1	20.0
Fluoranthene	Ave	1.185	1.152	0.0000	19400	20000	-2.8	20.0
Pyrene	Ave	1.241	1.228	0.0000	19800	20000	-1.0	20.0
Benzo[a]anthracene	LinF	1.184	1.055	0.0000	19300	20000	-3.6	20.0
Chrysene	Ave	1.131	1.058	0.0000	18700	20000	-6.4	20.0
Benzo[b]fluoranthene	Ave	1.030	1.018	0.0000	19800	20000	-1.1	20.0
Benzo[k]fluoranthene	Ave	1.078	1.095	0.0000	20300	20000	1.5	20.0
Benzo[a]pyrene	Ave	1.019	1.006	0.0000	19800	20000	-1.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.087	0.9164	0.0000	16900	20000	-15.7	20.0
Dibenz(a,h)anthracene	Ave	1.004	0.8278	0.0000	16500	20000	-17.6	20.0
Benzo[g,h,i]perylene	Ave	1.037	0.8327	0.0000	16100	20000	-19.7	20.0
o-Terphenyl	Ave	0.6186	0.6201	0.0000	20000	20000	0.2	20.0



TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\1DC26003.D  
 Lab Smp Id: CCVIS-1512372  
 Inj Date : 26-MAR-2013 10:32  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : CCVIS-1512372  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\dFASTPAHi.m  
 Meth Date : 26-Mar-2013 10:51 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.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/l)	ON-COL ( ug/l)
* 1 Naphthalene-d8	136	6.126	6.126	(1.000)	2497630	40.0000	(H)
* 6 Acenaphthene-d10	164	7.800	7.800	(1.000)	1612962	40.0000	(H)
* 9 Phenanthrene-d10	188	9.063	9.063	(1.000)	2599869	40.0000	(H)
\$ 13 o-Terphenyl	230	9.375	9.375	(1.034)	806068	20.0000	20(H)
* 17 Chrysene-d12	240	11.402	11.402	(1.000)	2607802	40.0000	(H)
* 22 Perylene-d12	264	13.270	13.270	(1.000)	2561814	40.0000	(H)
2 Naphthalene	128	6.149	6.149	(1.004)	1292910	20.0000	19(H)
3 2-Methylnaphthalene	142	6.848	6.848	(1.118)	840608	20.0000	20(H)
4 1-Methylnaphthalene	142	6.942	6.942	(1.133)	818082	20.0000	20(H)
5 Acenaphthylene	152	7.677	7.677	(0.984)	1377526	20.0000	19(H)
7 Acenaphthene	154	7.829	7.829	(1.004)	818640	20.0000	19(H)
8 Fluorene	166	8.270	8.270	(1.060)	961936	20.0000	19(H)
10 Phenanthrene	178	9.087	9.087	(1.003)	1415558	20.0000	19(H)
11 Anthracene	178	9.128	9.128	(1.007)	1425288	20.0000	19(H)
12 Carbazole	167	9.269	9.269	(1.023)	1239804	20.0000	19
14 Fluoranthene	202	10.068	10.068	(1.111)	1497661	20.0000	19(H)
15 Pyrene	202	10.256	10.256	(0.900)	1601221	20.0000	20(H)
16 Benzo(a)anthracene	228	11.384	11.384	(0.998)	1375959	20.0000	19(H)
18 Chrysene	228	11.431	11.431	(1.003)	1380061	20.0000	19(H)
19 Benzo(b)fluoranthene	252	12.712	12.712	(0.958)	1303865	20.0000	20(H)
20 Benzo(k)fluoranthene	252	12.753	12.753	(0.961)	1401959	20.0000	20(H)
21 Benzo(a)pyrene	252	13.170	13.170	(0.992)	1289065	20.0000	20(H)
23 Indeno(1,2,3-cd)pyrene	276	14.886	14.886	(1.122)	1173782	20.0000	17(MH)
24 Dibenzo(a,h)anthracene	278	14.915	14.915	(1.124)	1060311	20.0000	16(H)
25 Benzo(g,h,i)perylene	276	15.344	15.344	(1.156)	1066553	20.0000	16(H)

QC Flag Legend

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

Data File: 1DC26003.D

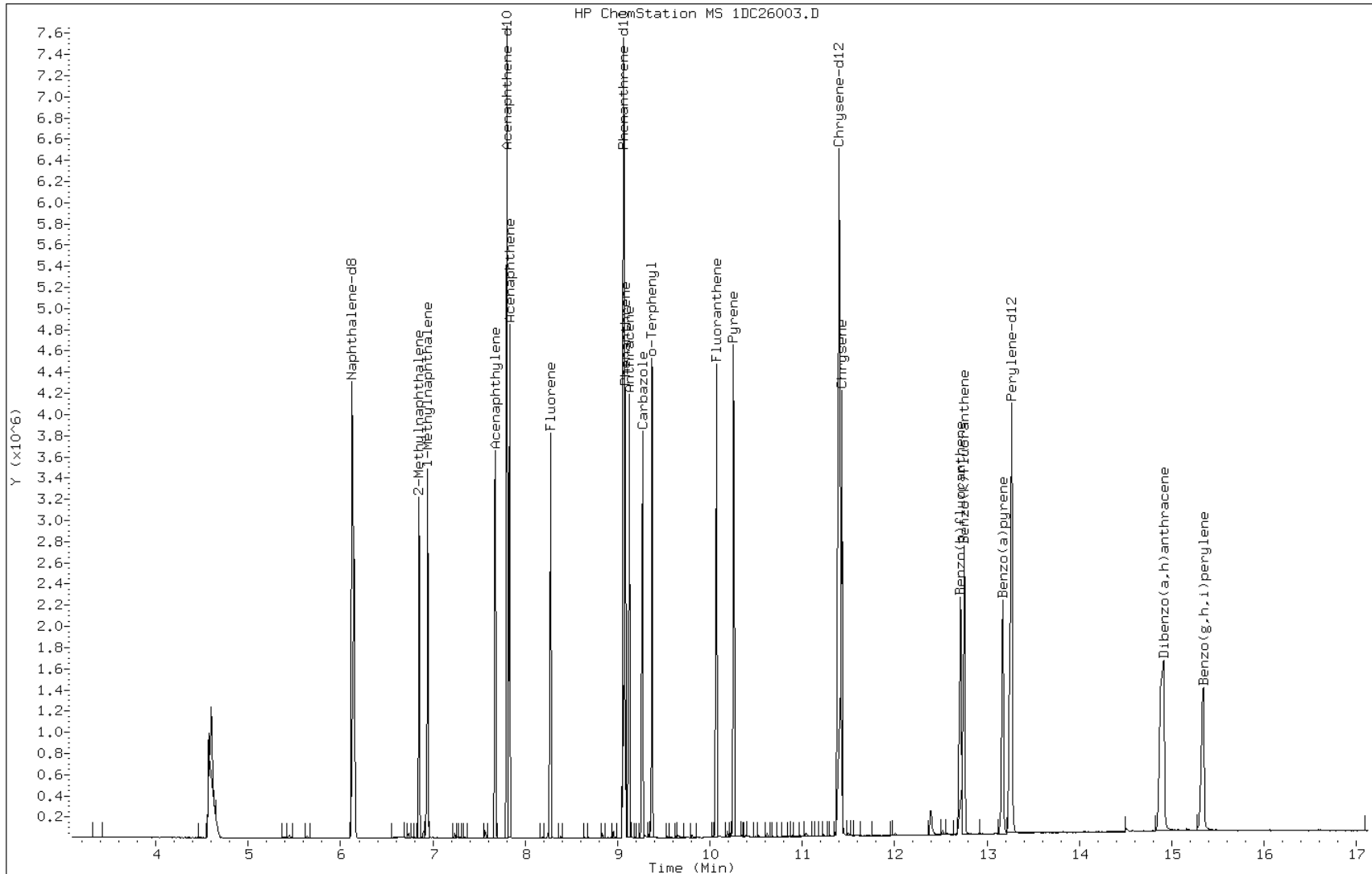
Date: 26-MAR-2013 10:32

Client ID:

Instrument: BSMSD.i

Sample Info: CCVIS-1512372

Operator: SCC

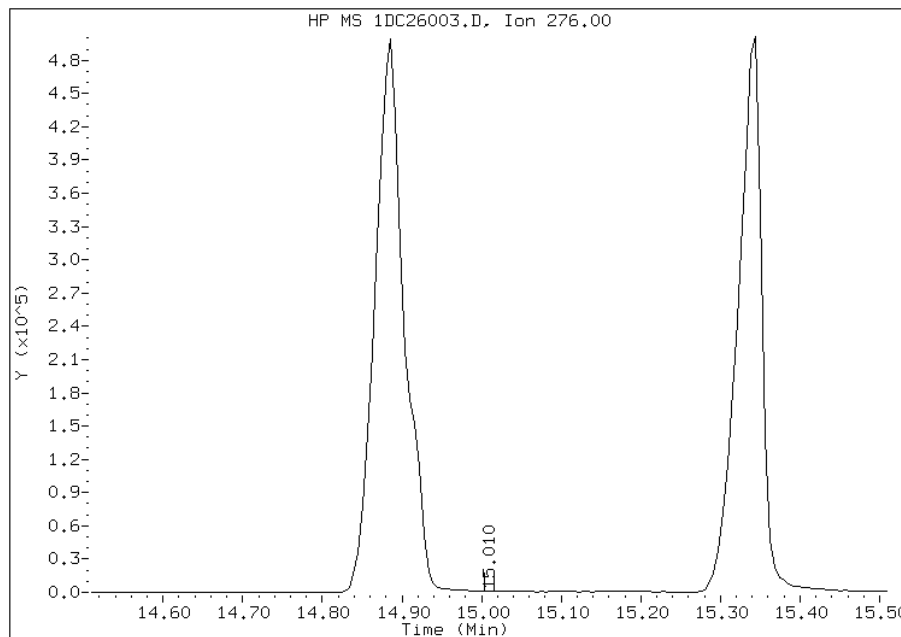


Manual Integration Report

Data File: 1DC26003.D  
Inj. Date and Time: 26-MAR-2013 10:32  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/26/2013

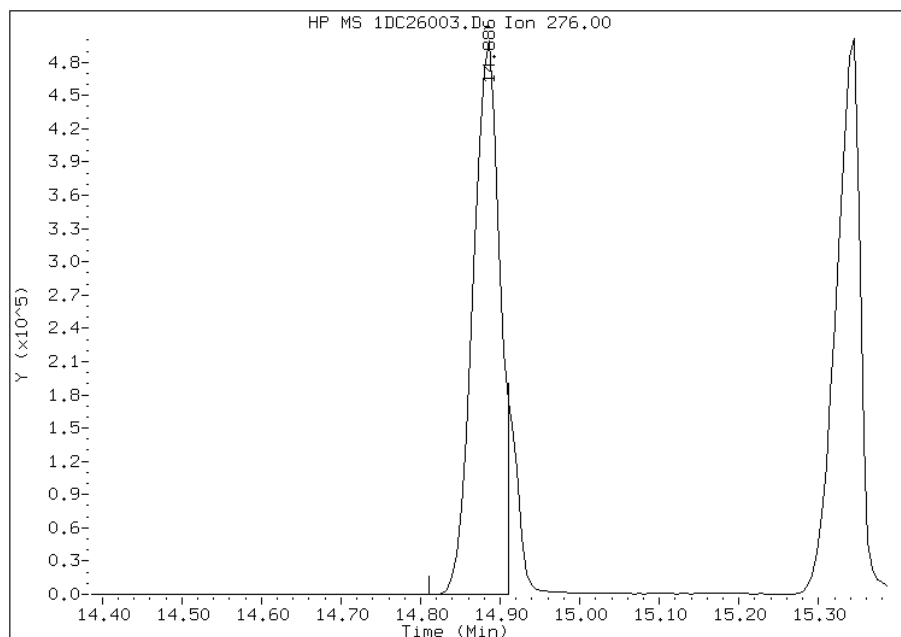
Processing Integration Results

RT: 15.01  
Response: 250  
Amount: 0  
Conc: 0



Manual Integration Results

RT: 14.89  
Response: 1173782  
Amount: 17  
Conc: 17



Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 10:52  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 15-MAR-2013 12:38  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : DFTPP-1465456  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-dftpp198.m  
 Meth Date : 09-Jan-2013 15:25 cantins Quant Type: ESTD  
 Cal Date : Cal File:  
 Als bottle: 2 QC Sample: DFTPP  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: 4.14 Sample Matrix: None  
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	( ug/L)	( ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
4.576	4.928	-0.352	198	29405			50.00-	0.00	100.00
4.576	4.928	-0.352	51	21805			10.00-	80.00	74.15
4.576	4.928	-0.352	68	259			0.00-	2.00	1.46
4.576	4.928	-0.352	69	17703			0.00-	0.00	60.20
4.576	4.928	-0.352	70	119			0.00-	2.00	0.67
4.576	4.928	-0.352	127	14373			10.00-	80.00	48.88
4.576	4.928	-0.352	197	110			0.00-	2.00	0.37
4.576	4.928	-0.352	442	16982			50.00-	0.00	57.75
4.576	4.928	-0.352	199	1936			5.00-	9.00	6.58
4.576	4.928	-0.352	275	7091			10.00-	60.00	24.11
4.576	4.928	-0.352	365	1588			1.00-	0.00	5.40
4.576	4.928	-0.352	441	2270			0.01-	99.99	66.76
4.576	4.928	-0.352	443	3400			15.00-	24.00	20.02

Data File: 1AC15002.D

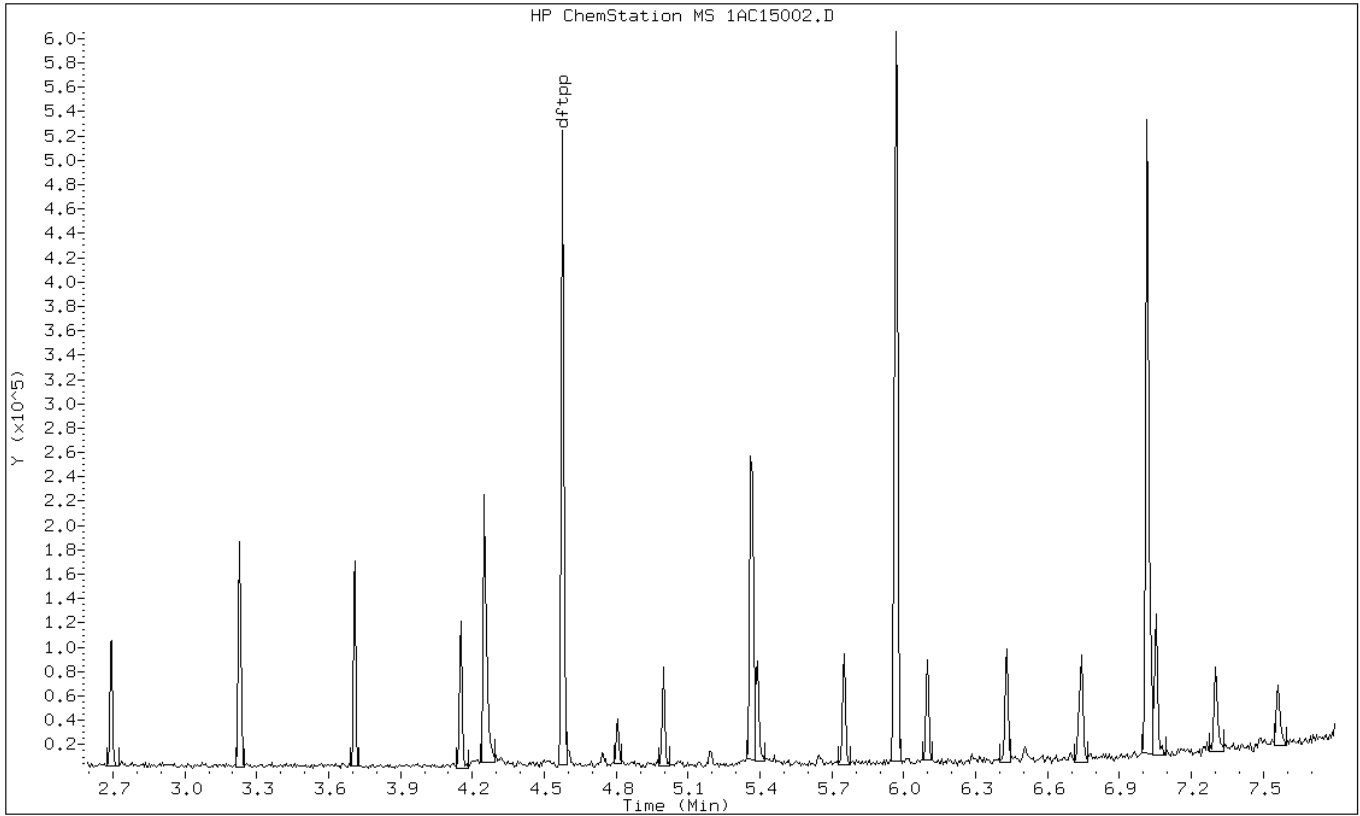
Date: 15-MAR-2013 12:38

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC



Data File: 1AC15002.D

Date: 15-MAR-2013 12:38

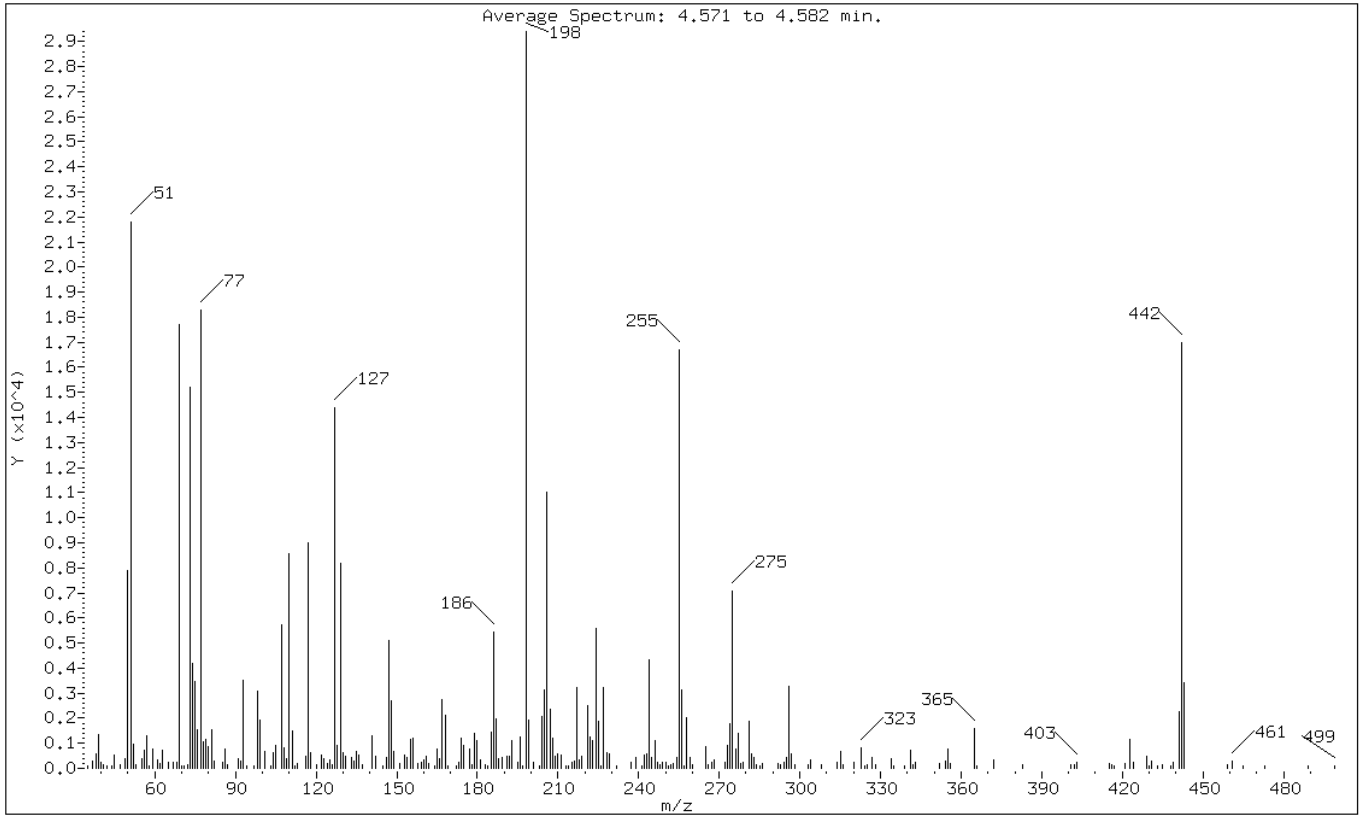
Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

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	74.15
68	Less than 2.00% of mass 69	0.88 ( 1.46)
69	Mass 69 relative abundance	60.20
70	Less than 2.00% of mass 69	0.40 ( 0.67)
127	10.00 - 80.00% of mass 198	48.88
197	Less than 2.00% of mass 198	0.37
442	Greater than 50.00% of mass 198	57.75
199	5.00 - 9.00% of mass 198	6.58
275	10.00 - 60.00% of mass 198	24.11
365	Greater than 1.00% of mass 198	5.40
441	Present, but less than mass 443	7.72
443	15.00 - 24.00% of mass 442	11.56 ( 20.02)

Data File: 1AC15002.D

Date: 15-MAR-2013 12:38

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15002.D

Spectrum: Average Spectrum: 4.571 to 4.582 min.

Location of Maximum: 198.00

Number of points: 252

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	85	120.00	163	203.00	115	285.00	106
37.00	306	122.00	547	204.00	2072	286.00	202
38.00	562	123.00	402	205.00	3135	292.00	179
39.00	1366	124.00	186	206.00	11017	293.00	164
40.00	219	125.00	359	207.00	2371	294.00	253
41.00	145	126.00	125	208.00	1184	295.00	431
42.00	104	127.00	14373	209.00	493	296.00	3259
44.00	111	128.00	931	210.00	592	297.00	601
45.00	514	129.00	8181	211.00	507	298.00	158
47.00	153	130.00	641	213.00	103	303.00	163
49.00	409	131.00	484	214.00	106	304.00	353
50.00	7874	133.00	441	215.00	246	308.00	126
51.00	21800	134.00	297	216.00	266	314.00	232
52.00	976	135.00	686	217.00	3206	315.00	691
53.00	134	136.00	518	218.00	342	316.00	143
55.00	389	137.00	163	219.00	478	320.00	252
56.00	727	141.00	1291	221.00	2523	323.00	809
57.00	1307	142.00	492	222.00	1268	324.00	92
58.00	107	145.00	94	223.00	1098	325.00	126
59.00	793	146.00	454	224.00	5572	327.00	416
61.00	323	147.00	5081	225.00	1855	328.00	128
62.00	191	148.00	2688	226.00	100	334.00	404
63.00	726	149.00	664	227.00	3220	335.00	101
65.00	254	151.00	171	228.00	620	339.00	85
67.00	256	153.00	543	229.00	562	341.00	733
68.00	259	154.00	417	232.00	90	342.00	128
69.00	17696	155.00	1172	237.00	244	343.00	219
70.00	119	156.00	1192	239.00	420	352.00	194
71.00	92	158.00	173	241.00	115	354.00	273
72.00	145	159.00	247	242.00	506	355.00	787
73.00	15202	160.00	320	243.00	600	356.00	190
74.00	4191	161.00	504	244.00	4329	365.00	1588
75.00	3459	162.00	191	245.00	453	366.00	94
76.00	1521	164.00	88	246.00	1109	372.00	337
77.00	18264	165.00	792	247.00	251	383.00	164
78.00	1070	166.00	404	248.00	162	401.00	168
79.00	1167	167.00	2720	249.00	262	402.00	137
80.00	889	168.00	2122	250.00	238	403.00	222
81.00	1552	169.00	104	251.00	92	415.00	211
82.00	281	172.00	102	252.00	132	416.00	144

85.00	253	173.00	241	253.00	172	417.00	97
86.00	792	174.00	1204	254.00	453	421.00	203
87.00	130	175.00	896	255.00	16688	423.00	1165
91.00	363	177.00	758	256.00	3108	424.00	230
92.00	278	178.00	124	257.00	112	429.00	472
93.00	3505	179.00	1405	258.00	2025	430.00	101
94.00	96	180.00	1111	259.00	447	431.00	293
97.00	99	181.00	330	260.00	168	433.00	113
98.00	3092	183.00	122	265.00	881	435.00	131
99.00	1912	184.00	107	266.00	161	438.00	91
101.00	693	185.00	1466	267.00	245	439.00	239
103.00	85	186.00	5418	268.00	325	441.00	2270
104.00	611	187.00	1965	272.00	255	442.00	16976
105.00	929	188.00	394	273.00	917	443.00	3400
107.00	5742	189.00	415	274.00	1773	459.00	158
108.00	799	191.00	472	275.00	7091	461.00	289
109.00	402	192.00	486	276.00	776	465.00	98
110.00	8543	193.00	1108	277.00	1382	473.00	97
111.00	1505	195.00	248	278.00	211	489.00	118
112.00	112	196.00	1229	279.00	247	499.00	87
113.00	202	197.00	110	281.00	1864		
116.00	464	198.00	29400	282.00	600		
117.00	9017	199.00	1936	283.00	454		
118.00	642	201.00	258	284.00	163		



TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\1AC21007.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 21-MAR-2013 16:44  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : DFTPP-1465456  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\a-dftpp198.m  
 Meth Date : 09-Jan-2013 15:25 cantins Quant Type: ESTD  
 Cal Date : Cal File:  
 Als bottle: 2 QC Sample: DFTPP  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: 4.14 Sample Matrix: None  
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE ( ug/L)	( ug/L)	TARGET	RANGE	RATIO	
====	=====	=====	====	=====	=====	=====	=====	=====	
1 dftpp					CAS #: 5074-71-5				
4.550	4.928	-0.378	198	35488		50.00-	0.00	100.00	
4.550	4.928	-0.378	51	26096		10.00-	80.00	73.53	
4.550	4.928	-0.378	68	0	0.0	0.00-	2.00	0.00	
4.550	4.928	-0.378	69	17576		0.00-	0.00	49.53	
4.550	4.928	-0.378	70	0	0.0	0.00-	2.00	0.00	
4.550	4.928	-0.378	127	16768		10.00-	80.00	47.25	
4.550	4.928	-0.378	197	0	0.0	0.00-	2.00	0.00	
4.550	4.928	-0.378	442	24640		50.00-	0.00	69.43	
4.550	4.928	-0.378	199	2854		5.00-	9.00	8.04	
4.550	4.928	-0.378	275	11621		10.00-	60.00	32.75	
4.550	4.928	-0.378	365	2144		1.00-	0.00	6.04	
4.550	4.928	-0.378	441	2174		0.01-	99.99	50.95	
4.550	4.928	-0.378	443	4267		15.00-	24.00	17.32	

Data File: 1AC21007.D

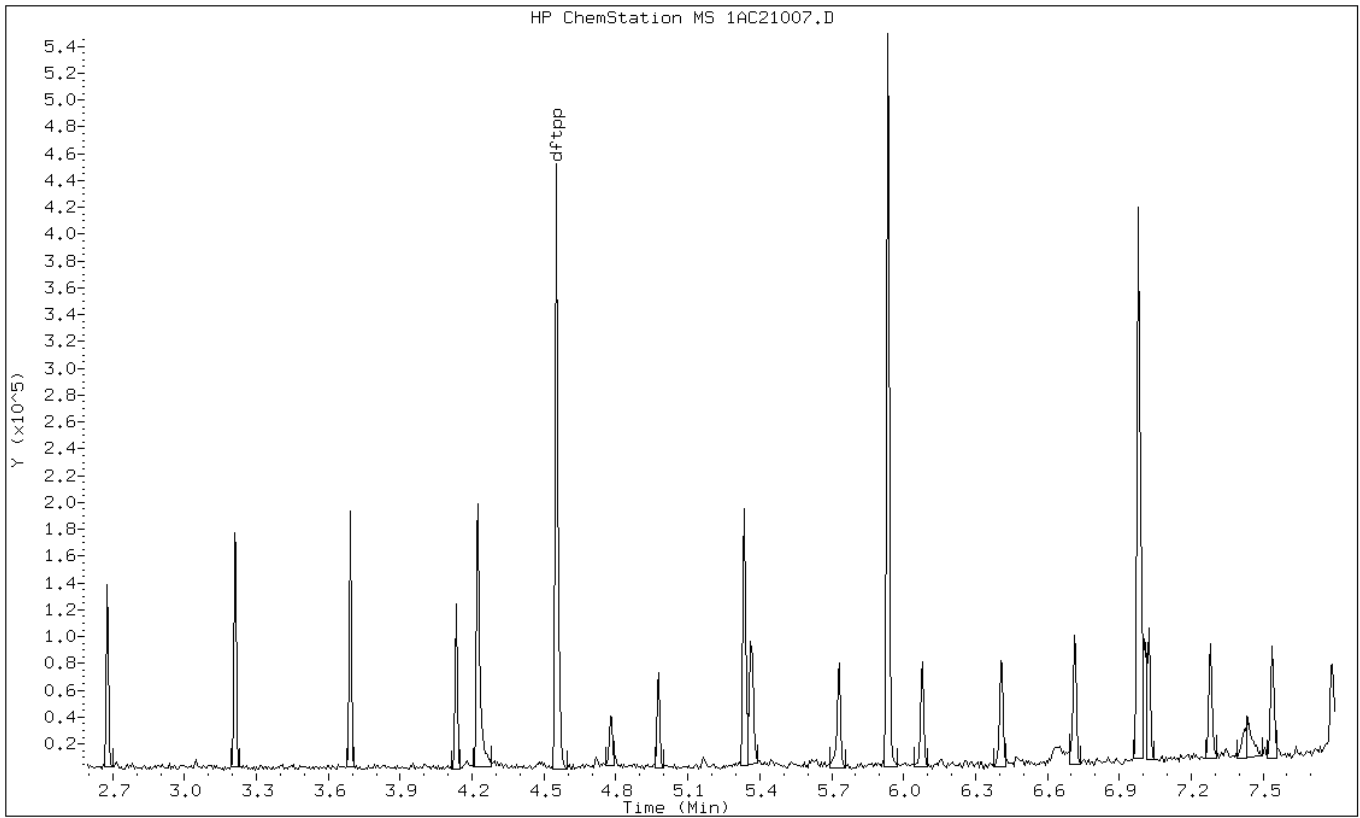
Date: 21-MAR-2013 16:44

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC



Data File: 1AC21007.D

Date: 21-MAR-2013 16:44

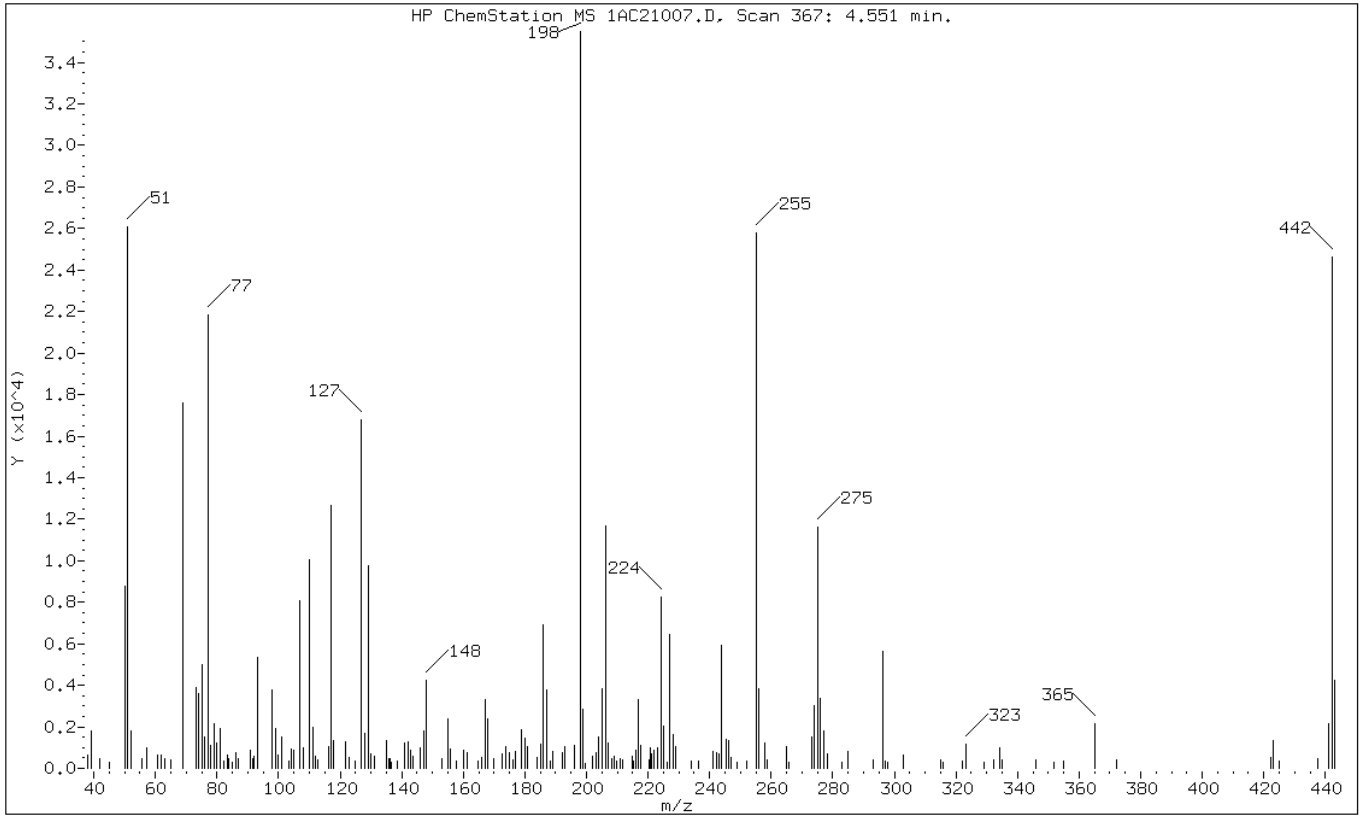
Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

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	73.53
68	Less than 2.00% of mass 69	0.00 ( 0.00)
69	Mass 69 relative abundance	49.53
70	Less than 2.00% of mass 69	0.00 ( 0.00)
127	10.00 - 80.00% of mass 198	47.25
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	69.43
199	5.00 - 9.00% of mass 198	8.04
275	10.00 - 60.00% of mass 198	32.75
365	Greater than 1.00% of mass 198	6.04
441	Present, but less than mass 443	6.13
443	15.00 - 24.00% of mass 442	12.02 ( 17.32)

Data File: 1AC21007.D

Date: 21-MAR-2013 16:44

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC

Data File: \\tam-chemsrv\chem\SM\BSMA5973.i\1A032113.b\1AC21007.D

Spectrum: HP ChemStation MS 1AC21007.D, Scan 367: 4.551 min.

Location of Maximum: 198.00

Number of points: 179

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	664	111.80	600	185.20	1160	246.00	1332
39.00	1801	112.70	413	186.00	6938	247.10	517
42.10	477	116.10	1052	187.10	3804	248.80	296
45.20	274	117.00	12654	188.30	341	251.90	344
50.00	8758	118.00	1323	189.10	790	255.10	25768
51.00	26096	121.90	1262	192.10	734	256.00	3830
52.10	1822	123.10	538	192.90	1070	258.00	1196
55.80	439	124.90	327	196.00	1088	258.70	414
57.10	978	127.00	16768	198.00	35488	264.90	1041
60.80	657	128.00	1679	198.90	2854	265.10	989
62.00	615	129.00	9730	199.80	255	265.90	285
62.90	466	129.90	705	202.10	555	273.00	1490
64.90	399	131.00	578	203.10	770	274.10	3010
68.90	17576	135.00	1312	204.00	1508	275.10	11621
73.10	3894	135.80	477	205.00	3810	275.90	3365
73.90	3628	136.20	462	206.10	11675	277.10	1787
75.10	4975	136.80	274	207.00	1244	278.30	687
76.10	1528	138.70	337	208.10	477	282.90	298
77.00	21832	140.90	1223	208.90	552	285.10	787
78.10	1096	142.10	1266	209.80	376	293.10	423
79.00	2140	143.00	890	211.00	493	296.10	5630
80.00	1197	143.60	559	211.70	402	297.10	369
81.00	1926	146.10	1004	214.80	584	297.70	269
82.10	369	147.10	1814	215.30	335	303.00	628
83.20	616	148.00	4262	216.10	865	315.10	387
83.80	450	153.20	454	217.00	3286	316.00	300
85.00	296	154.90	2367	217.60	1090	321.90	325
86.10	774	155.90	948	220.20	392	323.20	1185
87.10	454	157.90	324	220.80	1006	329.20	273
91.00	888	160.10	900	221.10	708	332.10	412
91.60	481	161.10	741	221.90	898	334.30	969
92.00	599	164.70	348	223.20	1006	334.90	385
93.00	5330	165.80	542	224.10	8263	345.90	415
98.00	3767	167.10	3316	225.10	2025	352.00	278
99.10	1914	168.10	2354	226.10	319	354.90	342
100.00	615	169.80	460	227.10	6450	365.20	2144
101.10	1501	172.80	693	228.00	1634	372.20	386
103.20	372	173.90	1033	229.10	1039	422.40	514
104.00	908	175.10	741	234.00	330	423.10	1345
104.90	862	176.20	380	236.20	374	425.00	348

105.10	821	177.10	785	241.00	827	437.60	477
107.00	8098	178.90	1866	242.10	759	440.90	2174
108.10	1005	179.90	1425	243.10	681	442.10	24640
109.90	10047	180.90	1043	244.00	5911	443.00	4267
111.00	1989	183.90	508	245.20	1409		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 26-MAR-2013 11:15  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : DFTPP-1465456  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\a-dftpp198.m  
 Meth Date : 09-Jan-2013 15:25 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)	ON-COL	FINAL	TARGET RANGE	RATIO	
====	=====	=====	====	=====	=====	=====	=====	=====	
1 dftpp					CAS #: 5074-71-5				
4.535	4.928	-0.393	198	28485			50.00- 0.00	100.00	
4.535	4.928	-0.393	51	20973			10.00- 80.00	73.63	
4.535	4.928	-0.393	68	225			0.00- 2.00	1.38	
4.535	4.928	-0.393	69	16361			0.00- 0.00	57.44	
4.535	4.928	-0.393	70	0	0.0	0.0	0.00- 2.00	0.00	
4.535	4.928	-0.393	127	14748			10.00- 80.00	51.77	
4.535	4.928	-0.393	197	0	0.0	0.0	0.00- 2.00	0.00	
4.535	4.928	-0.393	442	18562			50.00- 0.00	65.16	
4.535	4.928	-0.393	199	1996			5.00- 9.00	7.01	
4.535	4.928	-0.393	275	7801			10.00- 60.00	27.39	
4.535	4.928	-0.393	365	2061			1.00- 0.00	7.24	
4.535	4.928	-0.393	441	3128			0.01- 99.99	88.26	
4.535	4.928	-0.393	443	3544			15.00- 24.00	19.09	

Data File: 1AC26002.D

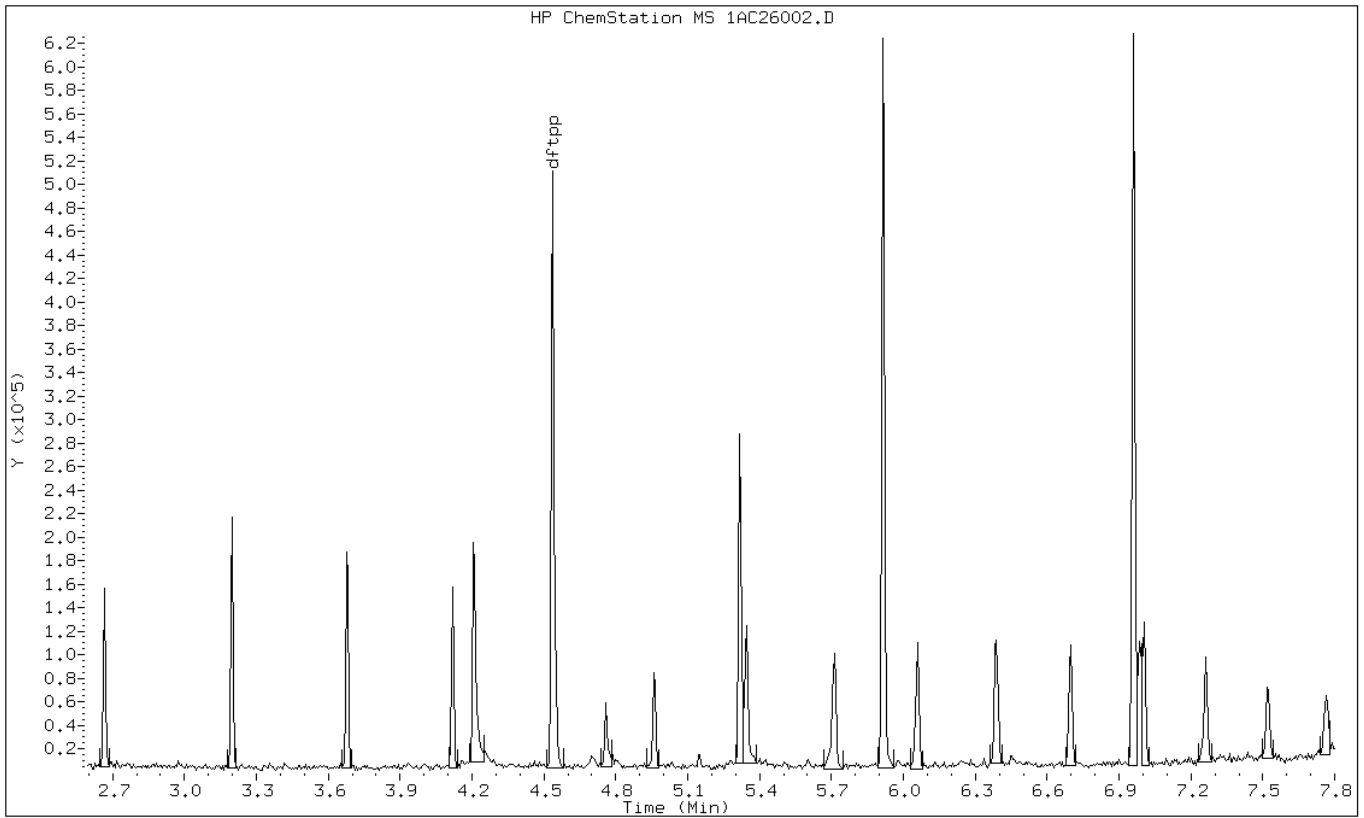
Date: 26-MAR-2013 11:15

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC



Data File: 1AC26002.D

Date: 26-MAR-2013 11:15

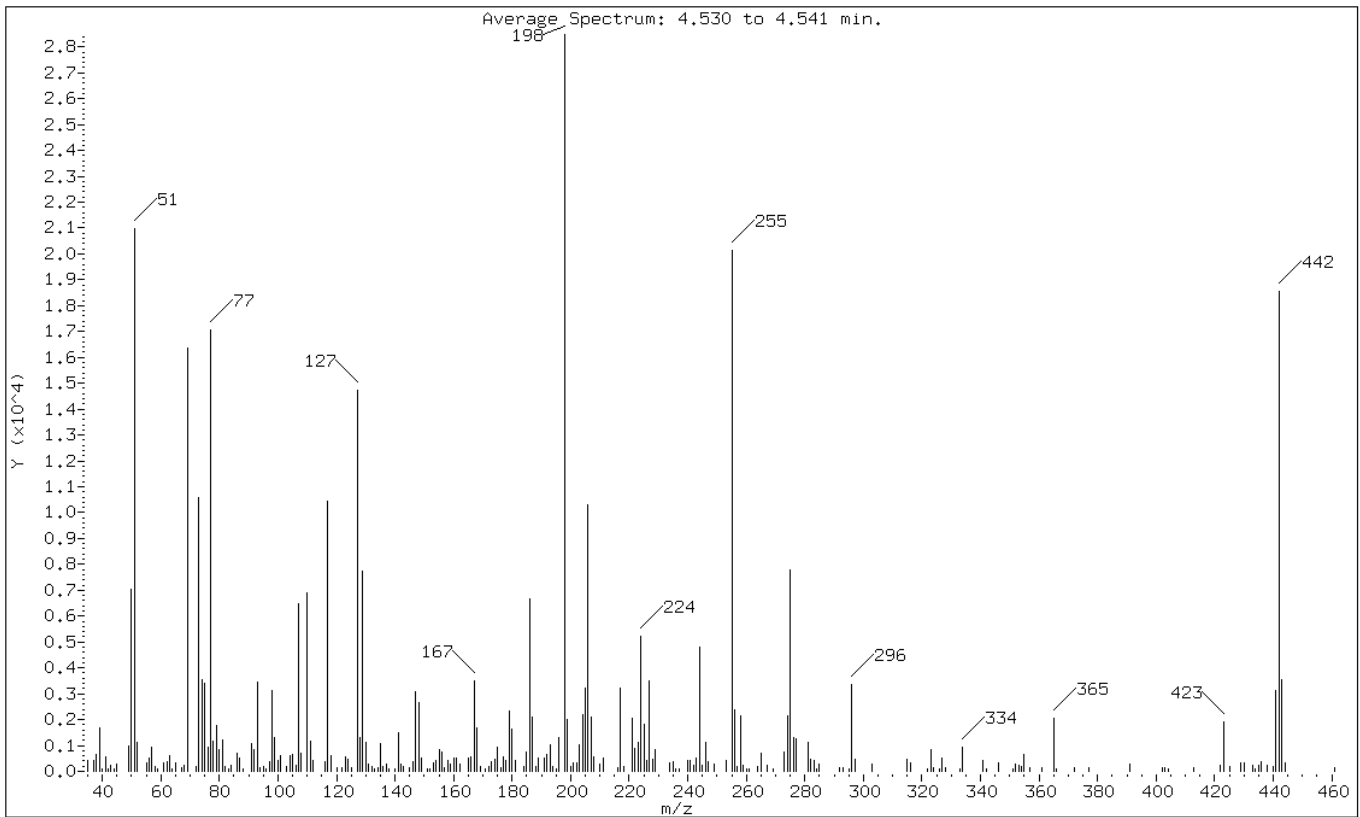
Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

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	73.63
68	Less than 2.00% of mass 69	0.79 ( 1.38)
69	Mass 69 relative abundance	57.44
70	Less than 2.00% of mass 69	0.00 ( 0.00)
127	10.00 - 80.00% of mass 198	51.77
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	65.16
199	5.00 - 9.00% of mass 198	7.01
275	10.00 - 60.00% of mass 198	27.39
365	Greater than 1.00% of mass 198	7.24
441	Present, but less than mass 443	10.98
443	15.00 - 24.00% of mass 442	12.44 ( 19.09)



Data File: 1AC26002.D

Date: 26-MAR-2013 11:15

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC

Data File: \\tam-chemsrv\chem\SM\BSMA5973.i\1A032613.b\1AC26002.D

Spectrum: Average Spectrum: 4.530 to 4.541 min.

Location of Maximum: 198.00

Number of points: 243

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	424	111.00	1185	186.00	6650	274.00	2167
37.00	434	112.00	435	187.00	2114	275.00	7801
38.00	642	116.00	367	188.00	209	276.00	1288
39.00	1668	117.00	10457	189.00	521	277.00	1266
40.00	94	118.00	629	191.00	503	281.00	1099
41.00	555	120.00	153	192.00	673	282.00	468
42.00	90	122.00	132	193.00	1030	283.00	405
43.00	253	123.00	577	194.00	187	284.00	94
44.00	116	124.00	448	195.00	89	285.00	289
45.00	291	125.00	155	196.00	1314	292.00	140
49.00	986	127.00	14748	198.00	28480	293.00	131
50.00	7045	128.00	1316	199.00	1996	295.00	104
51.00	20968	129.00	7751	200.00	175	296.00	3339
52.00	1132	130.00	1104	201.00	307	297.00	460
55.00	330	131.00	291	202.00	321	303.00	299
56.00	516	132.00	172	203.00	1042	315.00	484
57.00	926	133.00	100	204.00	2195	316.00	310
58.00	192	134.00	118	205.00	3219	322.00	98
59.00	94	135.00	1052	206.00	10298	323.00	817
61.00	334	136.00	190	207.00	2096	324.00	123
62.00	375	137.00	283	208.00	569	326.00	85
63.00	600	138.00	111	210.00	276	327.00	507
64.00	95	140.00	105	211.00	525	328.00	134
65.00	329	141.00	1493	216.00	150	333.00	114
67.00	137	142.00	286	217.00	3211	334.00	916
68.00	225	143.00	184	218.00	208	341.00	423
69.00	16361	145.00	132	221.00	2055	342.00	89
72.00	187	146.00	394	222.00	872	346.00	335
73.00	10567	147.00	3094	223.00	1098	351.00	104
74.00	3538	148.00	2655	224.00	5212	352.00	269
75.00	3416	149.00	499	225.00	1837	353.00	231
76.00	945	151.00	101	226.00	397	354.00	209
77.00	17048	152.00	94	227.00	3491	355.00	672
78.00	1182	153.00	318	228.00	456	357.00	133
79.00	1752	154.00	412	229.00	850	361.00	128
80.00	819	155.00	825	234.00	321	365.00	2061
81.00	1219	156.00	755	235.00	364	366.00	112
82.00	168	157.00	151	236.00	101	372.00	162
83.00	88	158.00	408	237.00	85	377.00	132
84.00	220	159.00	274	240.00	412	391.00	268

86.00	692	160.00	533	241.00	416	402.00	121
87.00	522	161.00	505	242.00	230	403.00	143
88.00	90	162.00	289	243.00	536	404.00	86
91.00	1049	165.00	492	244.00	4824	413.00	144
92.00	843	166.00	549	245.00	237	422.00	216
+-----+							
93.00	3444	167.00	3509	246.00	1125	423.00	1897
94.00	133	168.00	1685	247.00	372	425.00	208
95.00	205	169.00	206	249.00	297	429.00	323
96.00	99	171.00	91	253.00	422	430.00	317
97.00	363	172.00	169	255.00	20128	433.00	237
+-----+							
98.00	3137	173.00	357	256.00	2357	434.00	107
99.00	1296	174.00	460	257.00	179	435.00	210
100.00	413	175.00	916	258.00	2137	436.00	366
101.00	617	176.00	143	259.00	251	438.00	243
103.00	201	177.00	572	260.00	84	440.00	197
+-----+							
104.00	616	178.00	425	261.00	87	441.00	3128
105.00	664	179.00	2330	264.00	175	442.00	18560
106.00	242	180.00	1614	265.00	707	443.00	3544
107.00	6481	181.00	408	267.00	239	444.00	339
108.00	690	184.00	170	269.00	94	461.00	155
+-----+							
110.00	6904	185.00	757	273.00	734		
+-----+							

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

RT	EXP RT	DLT RT	MASS	RESPONSE	ON-COL ( ug/L)	FINAL ( 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

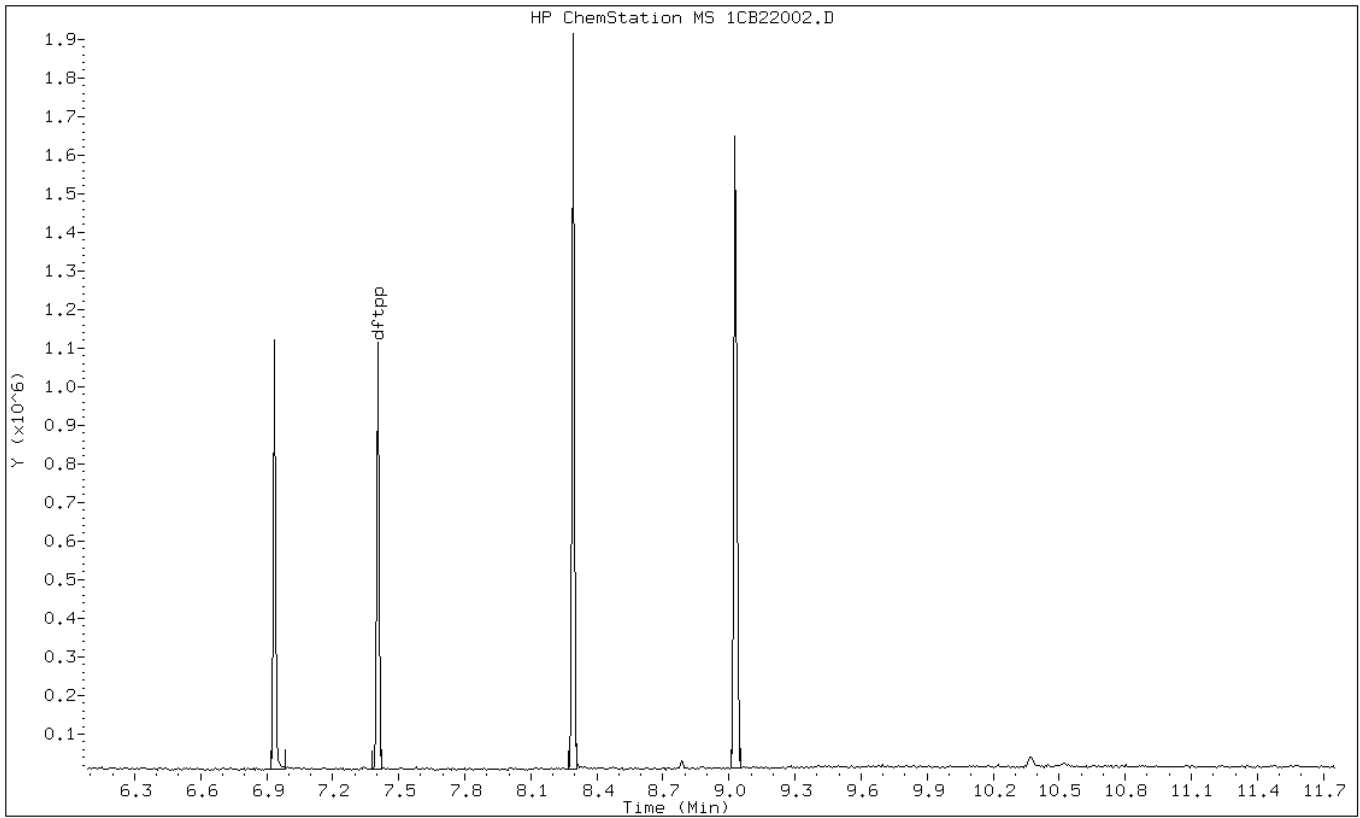
Date: 22-FEB-2013 11:41

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

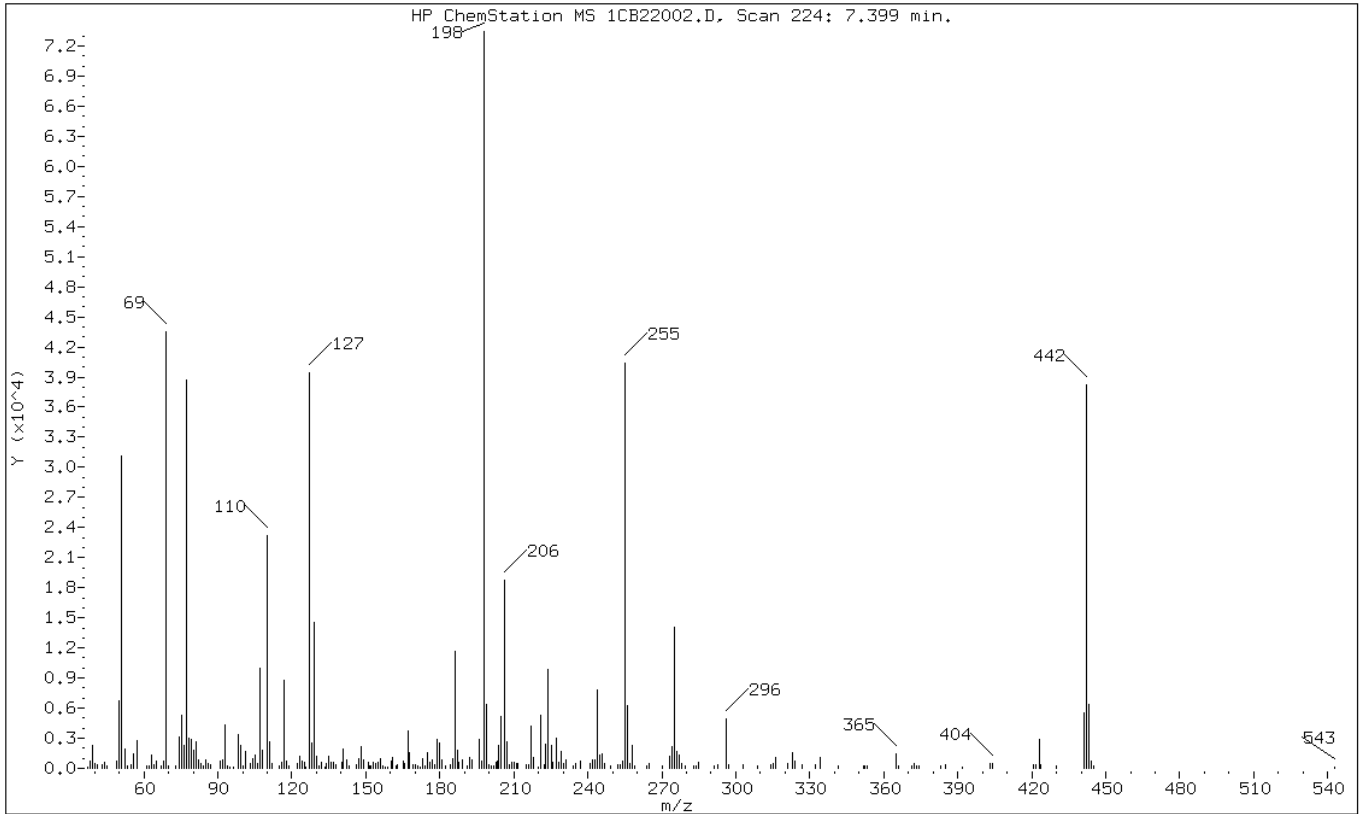
Client ID: DFTPP

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

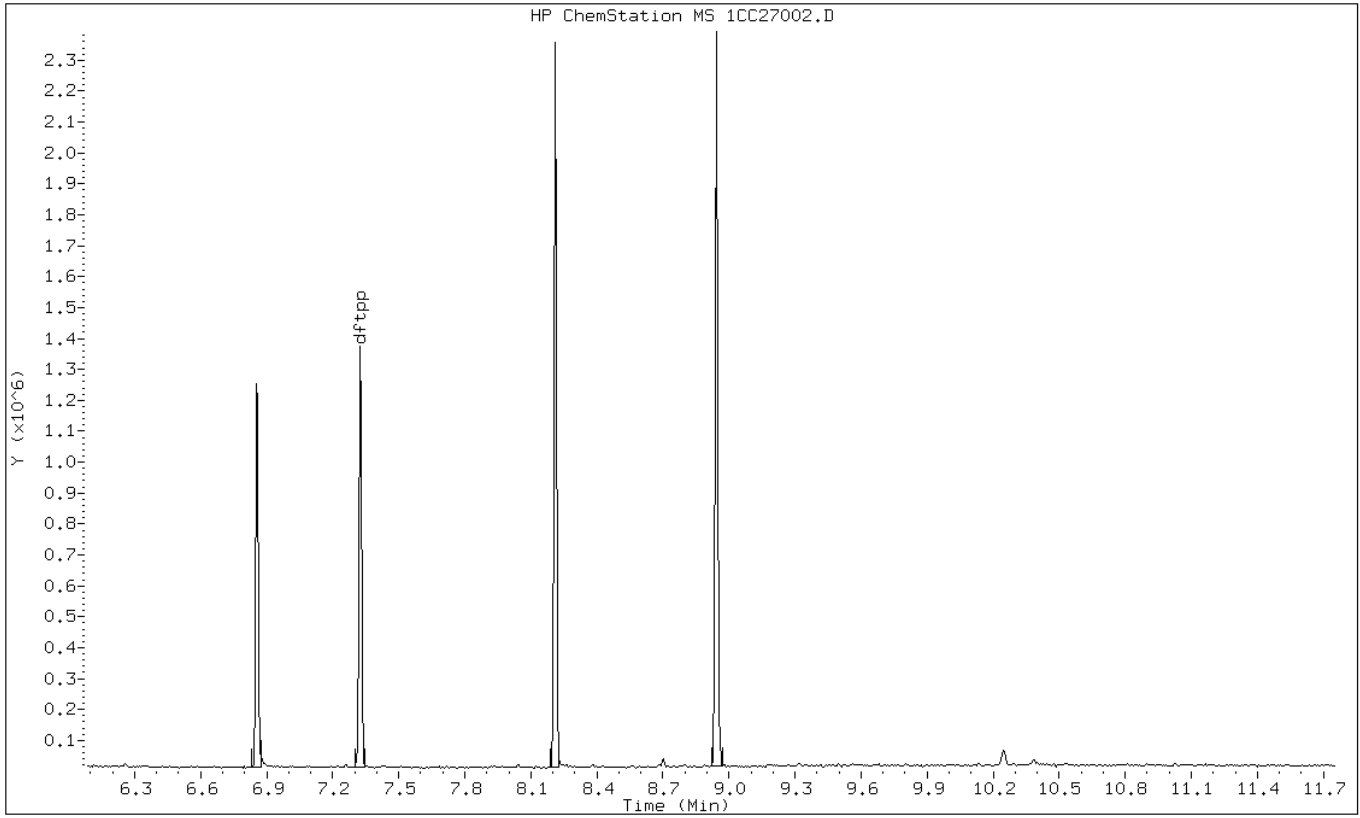
Date: 27-MAR-2013 10:18

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CC27002.D

Date: 27-MAR-2013 10:18

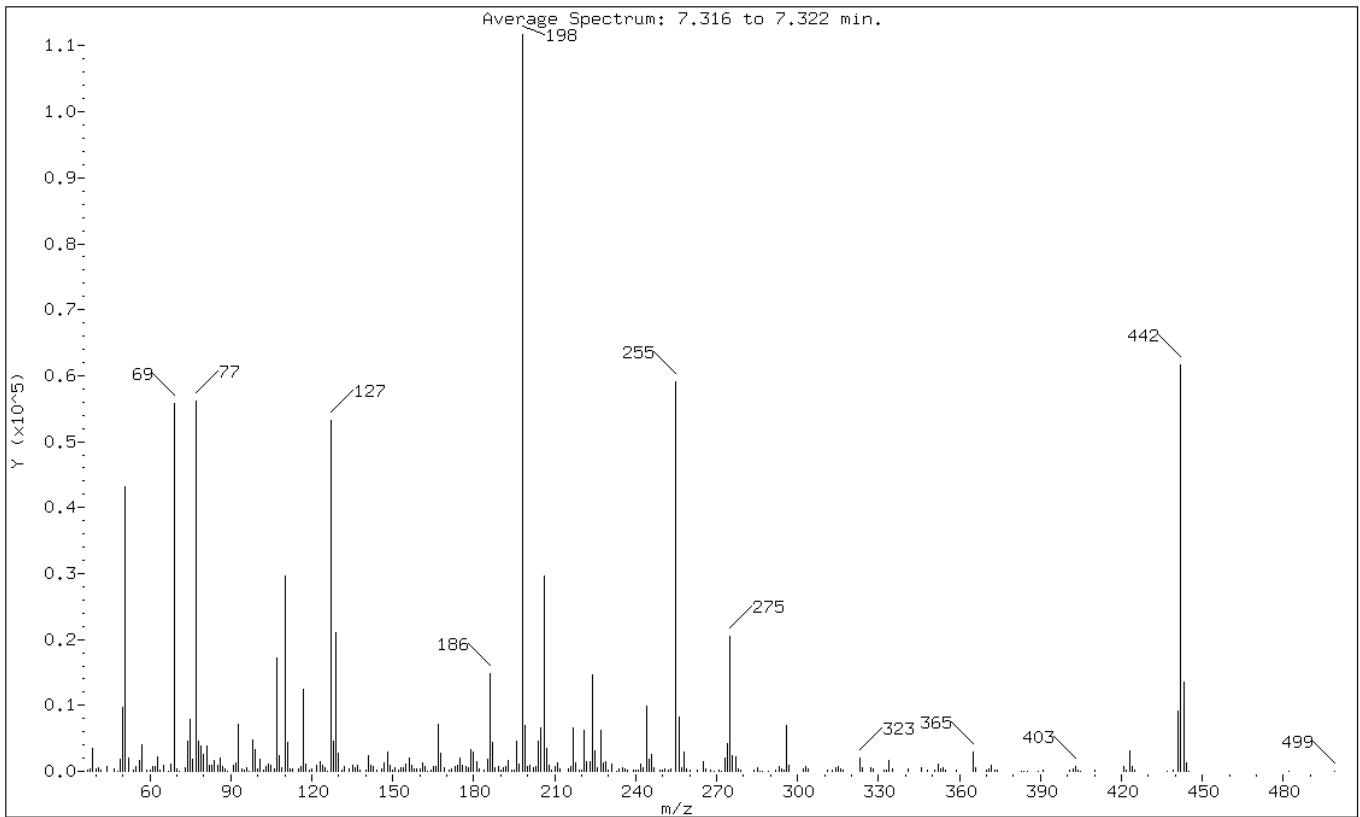
Client ID: DFTPP

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-chemsrv\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

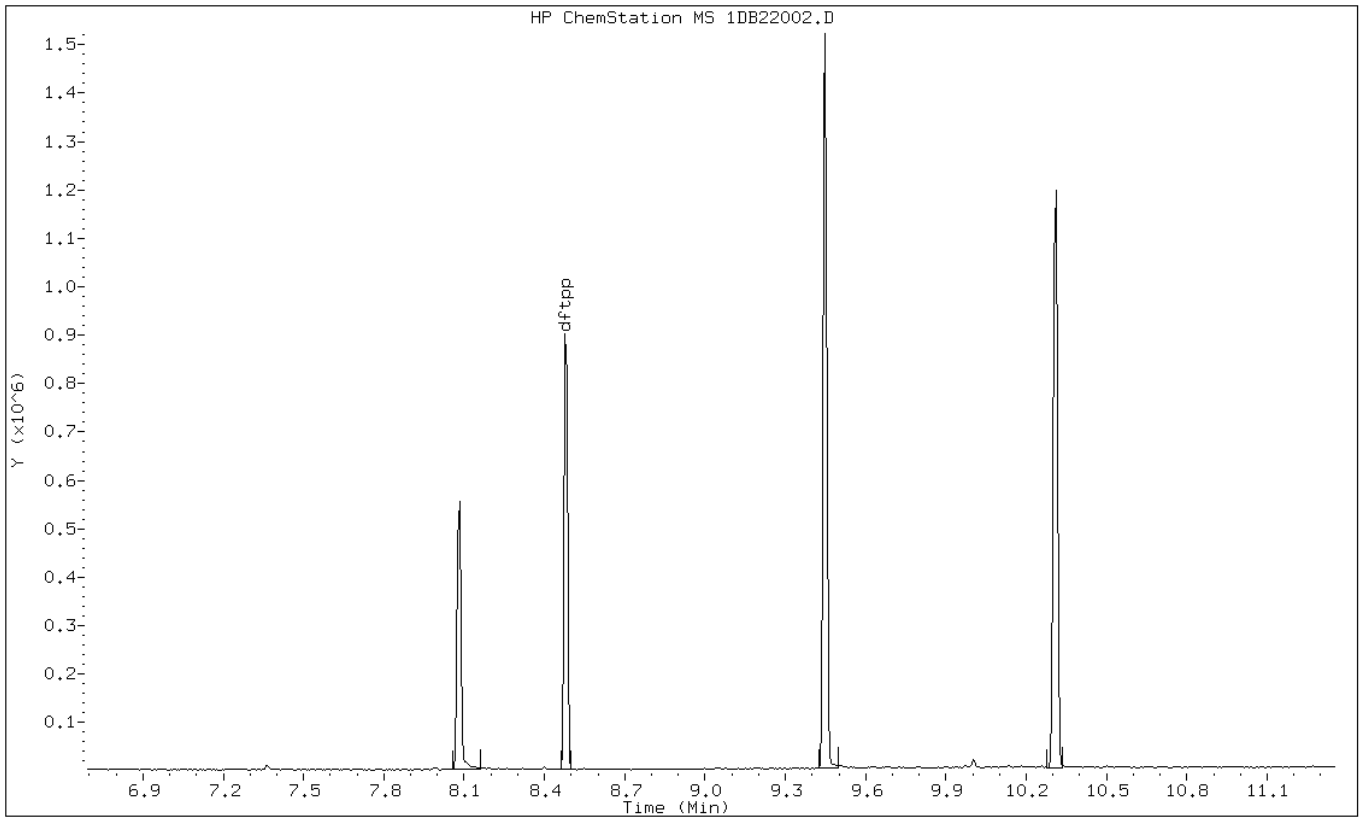
Date: 22-FEB-2013 11:57

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1DB22002.D

Date: 22-FEB-2013 11:57

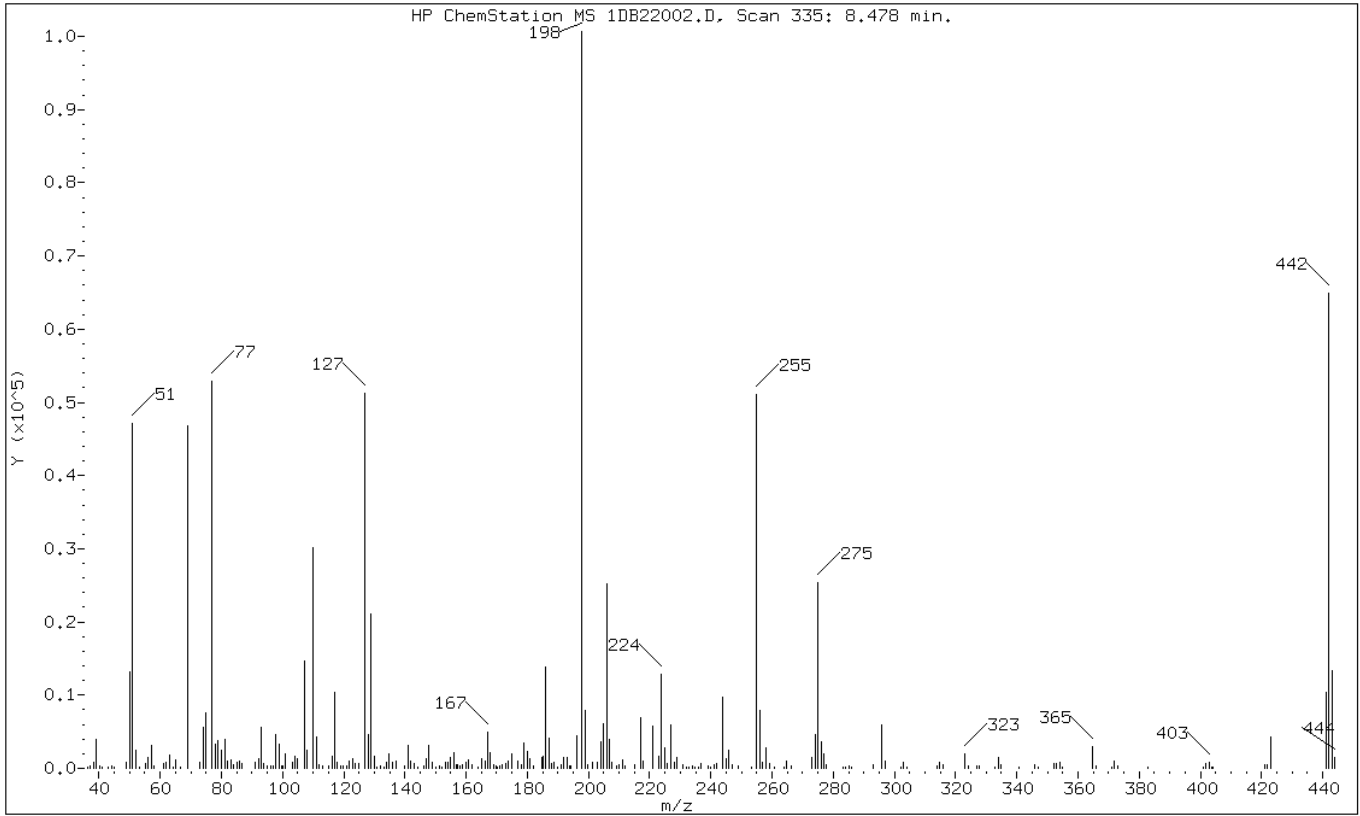
Client ID: DFTPP

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\1D032613.b\1DC26002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 26-MAR-2013 10:15  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : DFTPP-1490607  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.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				
8.422	8.532	-0.110	198	113928			50.00-	0.00	100.00
8.422	8.532	-0.110	51	47012			10.00-	80.00	41.26
8.422	8.532	-0.110	68	0	0.0	0.0	0.00-	2.00	0.00
8.422	8.532	-0.110	69	50036			0.00-	0.00	43.92
8.422	8.532	-0.110	70	275			0.00-	2.00	0.55
8.422	8.532	-0.110	127	54804			10.00-	80.00	48.10
8.422	8.532	-0.110	197	0	0.0	0.0	0.00-	2.00	0.00
8.422	8.532	-0.110	442	90492			50.00-	0.00	79.43
8.422	8.532	-0.110	199	8045			5.00-	9.00	7.06
8.422	8.532	-0.110	275	32064			10.00-	60.00	28.14
8.422	8.532	-0.110	365	3785			1.00-	0.00	3.32
8.422	8.532	-0.110	441	9744			0.01-	99.99	54.19
8.422	8.532	-0.110	443	17980			15.00-	24.00	19.87

Data File: 1DC26002.D

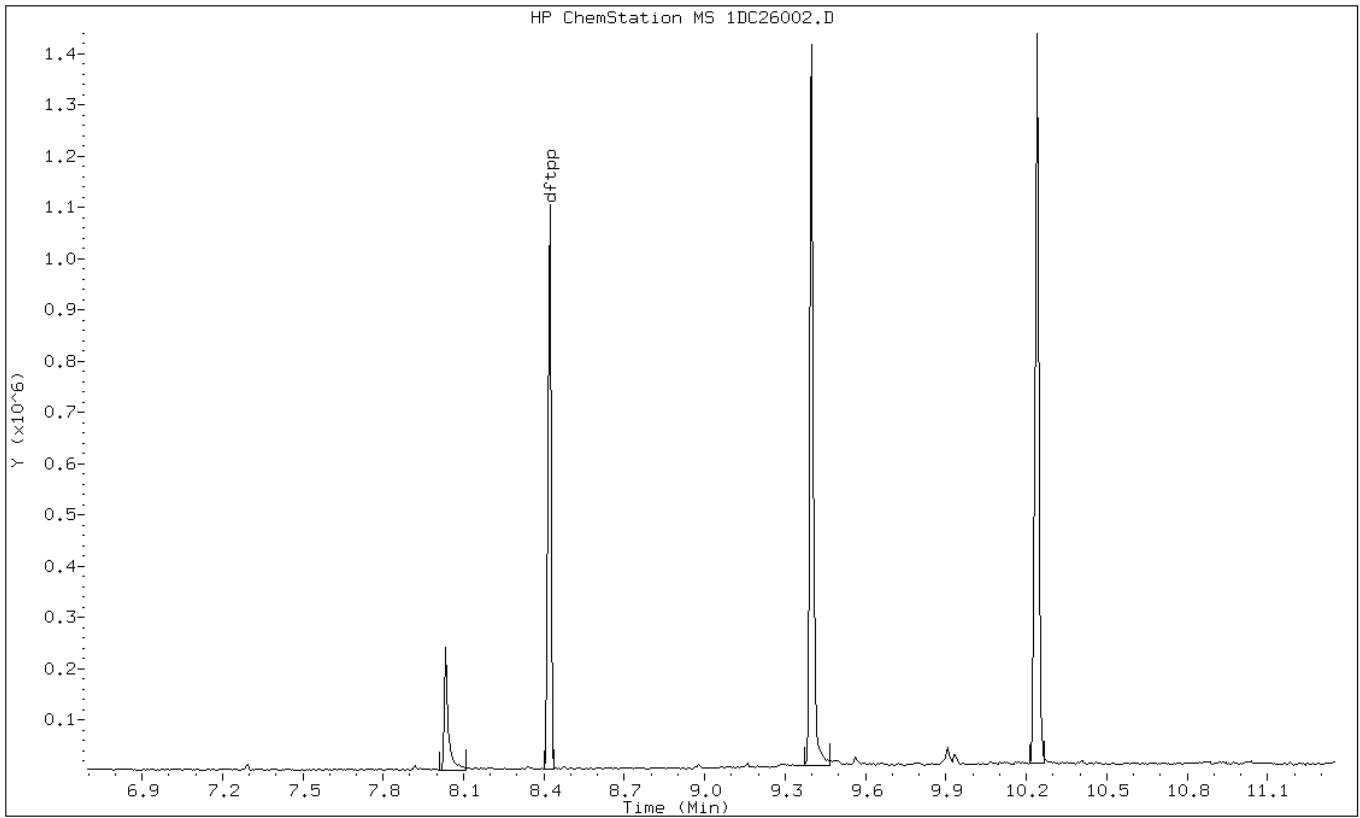
Date: 26-MAR-2013 10:15

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1DC26002.D

Date: 26-MAR-2013 10:15

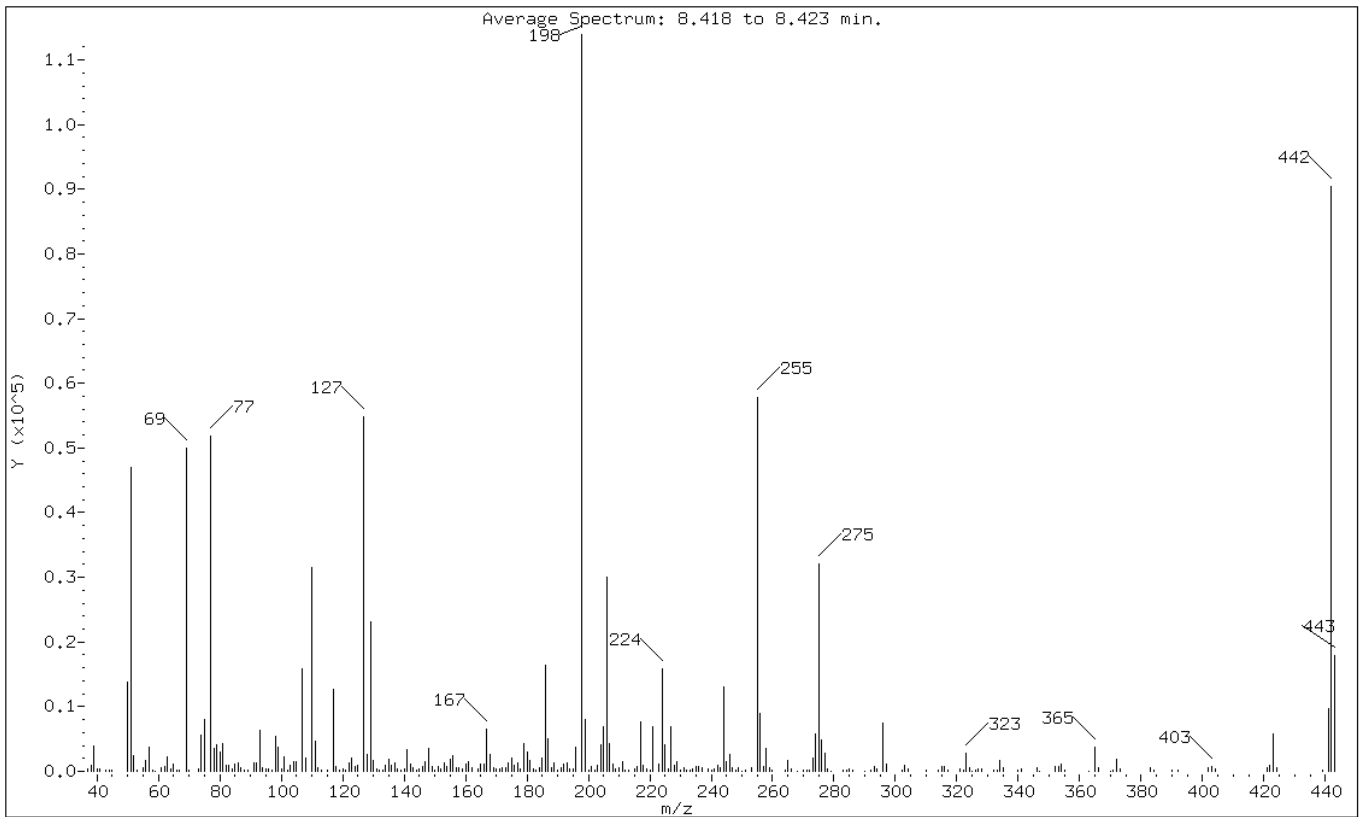
Client ID: DFTPP

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	41.26
68	Less than 2.00% of mass 69	0.00 ( 0.00)
69	Mass 69 relative abundance	43.92
70	Less than 2.00% of mass 69	0.24 ( 0.55)
127	10.00 - 80.00% of mass 198	48.10
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	79.43
199	5.00 - 9.00% of mass 198	7.06
275	10.00 - 60.00% of mass 198	28.14
365	Greater than 1.00% of mass 198	3.32
441	Present, but less than mass 443	8.55
443	15.00 - 24.00% of mass 442	15.78 ( 19.87)

Data File: 1DC26002.D

Date: 26-MAR-2013 10:15

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\1DC26002.D

Spectrum: Average Spectrum: 8.418 to 8.423 min.

Location of Maximum: 198.00

Number of points: 274

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	361	122.00	1307	193.00	1296	273.00	2113
38.00	920	123.00	1959	194.00	419	274.00	5703
39.00	3938	124.00	758	195.00	405	275.00	32064
40.00	389	125.00	899	196.00	3738	276.00	4834
41.00	414	127.00	54800	198.00	113928	277.00	2823
43.00	241	128.00	2687	199.00	8045	278.00	340
44.00	195	129.00	23184	200.00	248	279.00	82
45.00	112	130.00	1715	201.00	810	283.00	265
50.00	13850	131.00	444	202.00	146	284.00	197
51.00	47008	132.00	241	203.00	881	285.00	364
52.00	2501	133.00	156	204.00	4150	286.00	188
53.00	202	134.00	847	205.00	6987	290.00	86
55.00	637	135.00	1872	206.00	30048	292.00	131
56.00	1760	136.00	879	207.00	4290	293.00	761
57.00	3677	137.00	1213	208.00	1163	294.00	323
58.00	275	138.00	305	209.00	386	296.00	7461
59.00	87	139.00	170	210.00	526	297.00	1040
61.00	536	140.00	360	211.00	1499	302.00	150
62.00	753	141.00	3334	212.00	269	303.00	891
63.00	2255	142.00	1065	213.00	94	304.00	389
64.00	335	143.00	620	215.00	425	310.00	107
65.00	1083	144.00	244	216.00	793	314.00	222
66.00	181	145.00	379	217.00	7624	315.00	684
67.00	277	146.00	784	218.00	974	316.00	718
69.00	50032	147.00	1583	219.00	324	317.00	107
70.00	275	148.00	3498	220.00	137	321.00	397
73.00	399	149.00	733	221.00	6808	322.00	230
74.00	5522	150.00	255	223.00	1106	323.00	2784
75.00	8100	151.00	730	224.00	15759	324.00	505
77.00	51744	152.00	344	225.00	4152	325.00	80
78.00	3566	153.00	1262	226.00	365	326.00	94
79.00	4087	154.00	711	227.00	6961	327.00	374
80.00	3034	155.00	1857	228.00	1006	328.00	418
81.00	4257	156.00	2338	229.00	1482	332.00	266
82.00	870	157.00	641	230.00	142	333.00	265
83.00	877	158.00	581	231.00	502	334.00	1586
84.00	366	159.00	450	232.00	129	335.00	501
85.00	1149	160.00	1147	233.00	98	340.00	121
86.00	1222	161.00	1540	234.00	399	341.00	324
87.00	542	162.00	496	235.00	713	346.00	539

88.00	166	164.00	291	236.00	786	347.00	77
89.00	204	165.00	1061	237.00	534	352.00	702
91.00	1303	166.00	1166	239.00	425	353.00	762
92.00	1246	167.00	6463	240.00	120	354.00	1069
93.00	6362	168.00	2585	241.00	416	355.00	165
94.00	478	169.00	500	242.00	953	363.00	81
95.00	300	170.00	302	243.00	553	365.00	3785
96.00	346	171.00	286	244.00	13029	366.00	590
97.00	155	172.00	598	245.00	1448	370.00	77
98.00	5337	173.00	626	246.00	2569	371.00	136
99.00	3681	174.00	1298	247.00	513	372.00	1853
100.00	457	175.00	1975	248.00	124	373.00	337
101.00	2327	176.00	847	249.00	485	383.00	524
102.00	212	177.00	1357	250.00	82	384.00	126
103.00	948	178.00	462	251.00	113	390.00	181
104.00	1416	179.00	4221	253.00	515	392.00	109
105.00	1487	180.00	3014	255.00	57712	402.00	612
107.00	15909	181.00	1653	256.00	9004	403.00	725
108.00	2141	182.00	345	257.00	734	404.00	326
110.00	31472	183.00	159	258.00	3632	421.00	580
111.00	4750	184.00	527	259.00	625	422.00	852
112.00	580	185.00	2024	260.00	196	423.00	5819
113.00	268	186.00	16496	264.00	169	424.00	517
115.00	272	187.00	5044	265.00	1663	439.00	129
117.00	12642	188.00	649	266.00	285	441.00	9744
118.00	806	189.00	1373	268.00	75	442.00	90488
119.00	210	190.00	194	270.00	114	443.00	17976
120.00	290	191.00	514	271.00	200		
121.00	230	192.00	1188	272.00	272		

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 660-135608/1-A  
 Matrix: Solid Lab File ID: 1AC21010.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 03/21/2013 08:38  
 Sample wt/vol: 14.95(g) Date Analyzed: 03/21/2013 17:27  
 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.: 135630 Units: ug/Kg

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

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





Data File: 1AC21010.D

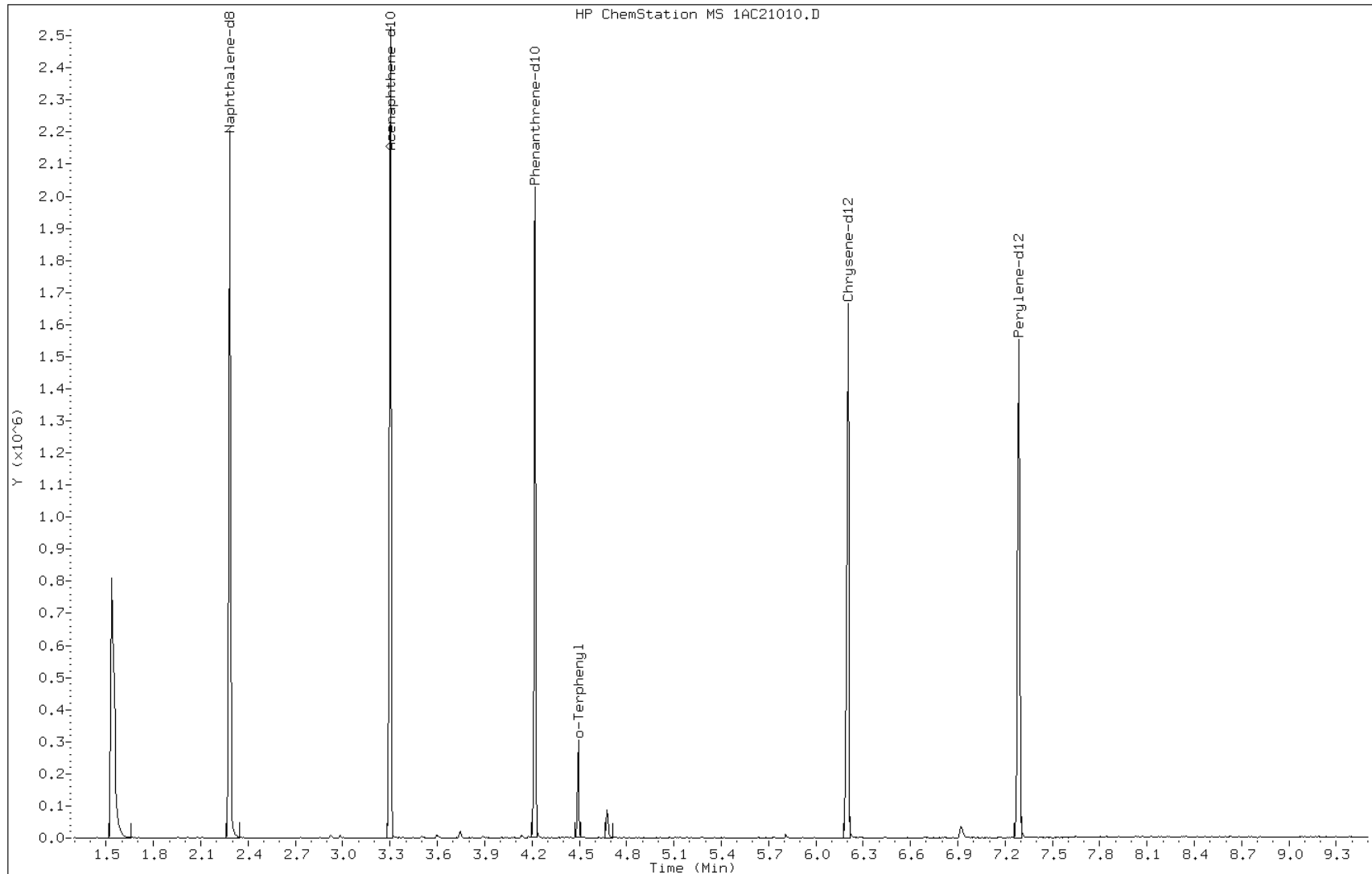
Date: 21-MAR-2013 17:27

Client ID:

Instrument: BSMA5973.i

Sample Info: mb 660-135608/1-a

Operator: SCC



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 660-135631/1-A  
 Matrix: Solid Lab File ID: 1AC26005.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 03/21/2013 11:14  
 Sample wt/vol: 15.40 (g) Date Analyzed: 03/26/2013 11:59  
 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.: 135850 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	97	U	97	19
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.2	U	8.2	4.1
56-55-3	Benzo[a]anthracene	7.8	U	7.8	3.8
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	5.9
191-24-2	Benzo[g,h,i]perylene	19	U	19	4.3
207-08-9	Benzo[k]fluoranthene	7.8	U	7.8	3.5
218-01-9	Chrysene	8.8	U	8.8	4.4
53-70-3	Dibenz(a,h)anthracene	19	U	19	4.0
206-44-0	Fluoranthene	19	U	19	3.9
86-73-7	Fluorene	19	U	19	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	19	U	19	6.9
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	6.9
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.8	U	7.8	3.8
129-00-0	Pyrene	19	U	19	3.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26005.D  
 Lab Smp Id: mb 660-135631/1-a  
 Inj Date : 26-MAR-2013 11:59  
 Operator : SCC  
 Smp Info : mb 660-135631/1-a  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\a-bFASTPAHi-m.m  
 Meth Date : 26-Mar-2013 11:39 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.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	15.400	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.268	2.272	(1.000)	377337	40.0000	
* 6 Acenaphthene-d10	164		3.288	3.287	(1.000)	278086	40.0000	
* 10 Phenanthrene-d10	188		4.202	4.205	(1.000)	415737	40.0000	
\$ 14 o-Terphenyl	230		4.474	4.478	(1.065)	44170	8.06545	523.7307
* 18 Chrysene-d12	240		6.184	6.193	(1.000)	432209	40.0000	
* 23 Perylene-d12	264		7.268	7.272	(1.000)	464534	40.0000	

Data File: 1AC26005.D

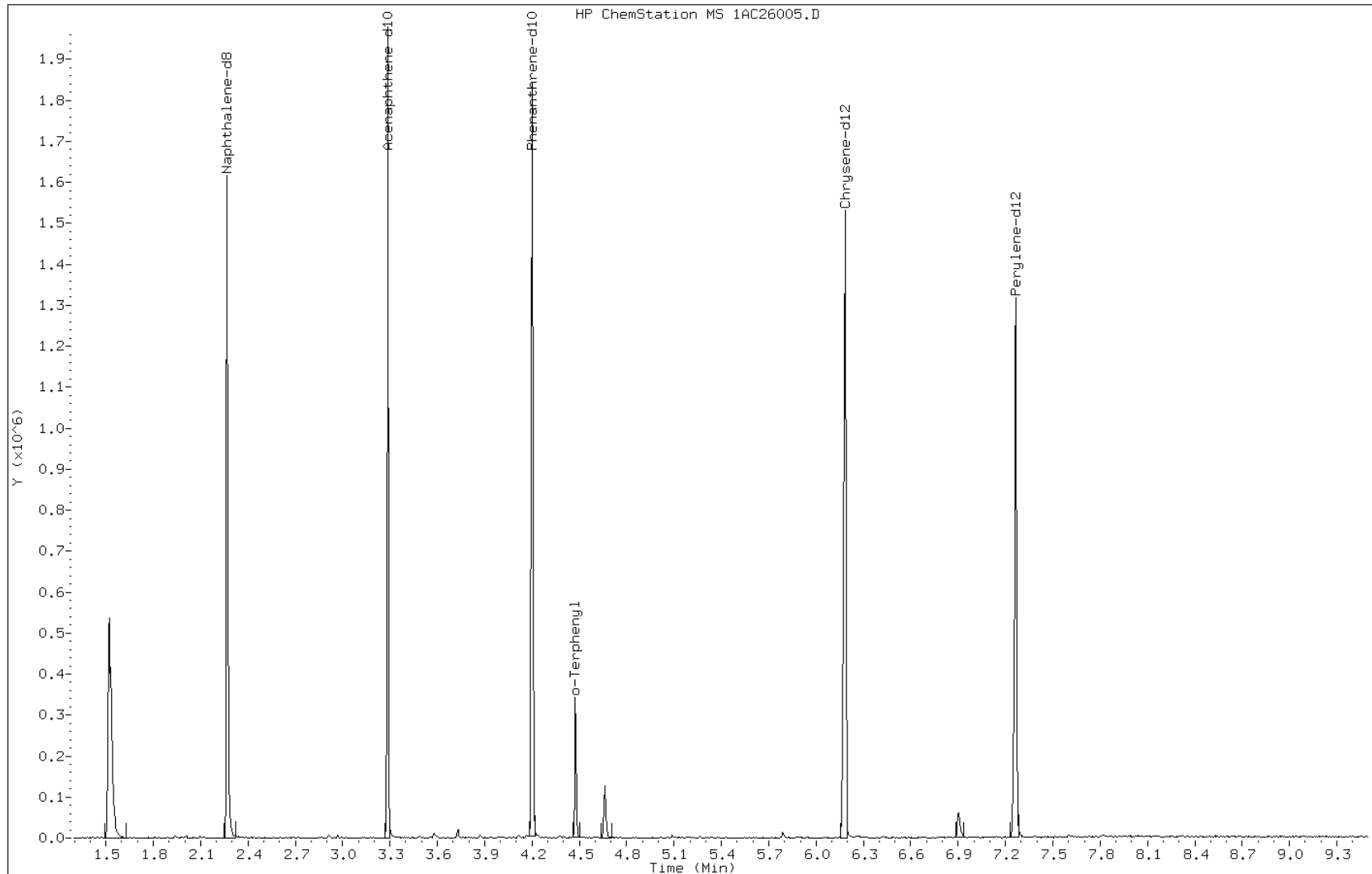
Date: 26-MAR-2013 11:59

Client ID:

Instrument: BSMA5973.i

Sample Info: mb 660-135631/1-a

Operator: SCC



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 660-135608/2-A  
 Matrix: Solid Lab File ID: 1DC26010.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 03/21/2013 08:38  
 Sample wt/vol: 15.50(g) Date Analyzed: 03/26/2013 13:10  
 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.: 135792 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	482		97	19
208-96-8	Acenaphthylene	504		39	4.8
120-12-7	Anthracene	502		8.1	4.1
56-55-3	Benzo[a]anthracene	562		7.7	3.8
50-32-8	Benzo[a]pyrene	480		10	5.0
205-99-2	Benzo[b]fluoranthene	508		12	5.9
191-24-2	Benzo[g,h,i]perylene	486		19	4.3
207-08-9	Benzo[k]fluoranthene	534		7.7	3.5
218-01-9	Chrysene	504		8.7	4.4
53-70-3	Dibenz(a,h)anthracene	515		19	4.0
206-44-0	Fluoranthene	519		19	3.9
86-73-7	Fluorene	514		19	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	452		19	6.9
90-12-0	1-Methylnaphthalene	512		39	4.3
91-57-6	2-Methylnaphthalene	497		39	6.9
91-20-3	Naphthalene	478		39	4.3
85-01-8	Phenanthrene	501		7.7	3.8
129-00-0	Pyrene	514		19	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	76		30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\1DC26010.D  
 Lab Smp Id: LCS 660-135608/2-A  
 Inj Date : 26-MAR-2013 13:10  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : LCS 660-135608/2-A  
 Misc Info : RE-RUN  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\dFASTPAHi.m  
 Meth Date : 26-Mar-2013 10:51 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:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.500	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		6.119	6.126	(1.000)	2516080	40.0000		
* 6 Acenaphthene-d10	164		7.800	7.800	(1.000)	1553509	40.0000		
* 9 Phenanthrene-d10	188		9.063	9.063	(1.000)	2507241	40.0000		
\$ 13 o-Terphenyl	230		9.368	9.375	(1.034)	296291	7.64188	490	
* 17 Chrysene-d12	240		11.401	11.402	(1.000)	2480279	40.0000		
* 22 Perylene-d12	264		13.264	13.270	(1.000)	2523561	40.0000		
2 Naphthalene	128		6.143	6.149	(1.004)	498907	7.41243	480	
3 2-Methylnaphthalene	142		6.848	6.848	(1.119)	330297	7.70371	500	
4 1-Methylnaphthalene	142		6.936	6.942	(1.133)	318647	7.93650	510	
5 Acenaphthylene	152		7.670	7.677	(0.983)	534643	7.80610	500	
7 Acenaphthene	154		7.823	7.829	(1.003)	311696	7.46392	480	
8 Fluorene	166		8.270	8.270	(1.060)	388887	7.97033	510	
10 Phenanthrene	178		9.081	9.087	(1.002)	552646	7.76491	500	
11 Anthracene	178		9.122	9.128	(1.006)	554427	7.78586	500	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.263	9.269	(1.022)	468186	7.35470	470
14 Fluoranthene	202	10.068	10.068	(1.111)	597334	8.04235	520
15 Pyrene	202	10.256	10.256	(0.900)	613020	7.96792	510
16 Benzo(a)anthracene	228	11.378	11.384	(0.998)	591563	8.71168	560
18 Chrysene	228	11.425	11.431	(1.002)	547319	7.80720	500
19 Benzo(b)fluoranthene	252	12.706	12.712	(0.958)	511808	7.87931	510
20 Benzo(k)fluoranthene	252	12.741	12.753	(0.961)	562711	8.27382	530
21 Benzo(a)pyrene	252	13.158	13.170	(0.992)	478705	7.44727	480
23 Indeno(1,2,3-cd)pyrene	276	14.868	14.886	(1.121)	480691	7.00739	450(M)
24 Dibenzo(a,h)anthracene	278	14.897	14.915	(1.123)	506084	7.98849	520
25 Benzo(g,h,i)perylene	276	15.314	15.344	(1.155)	492662	7.53261	480

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DC26010.D

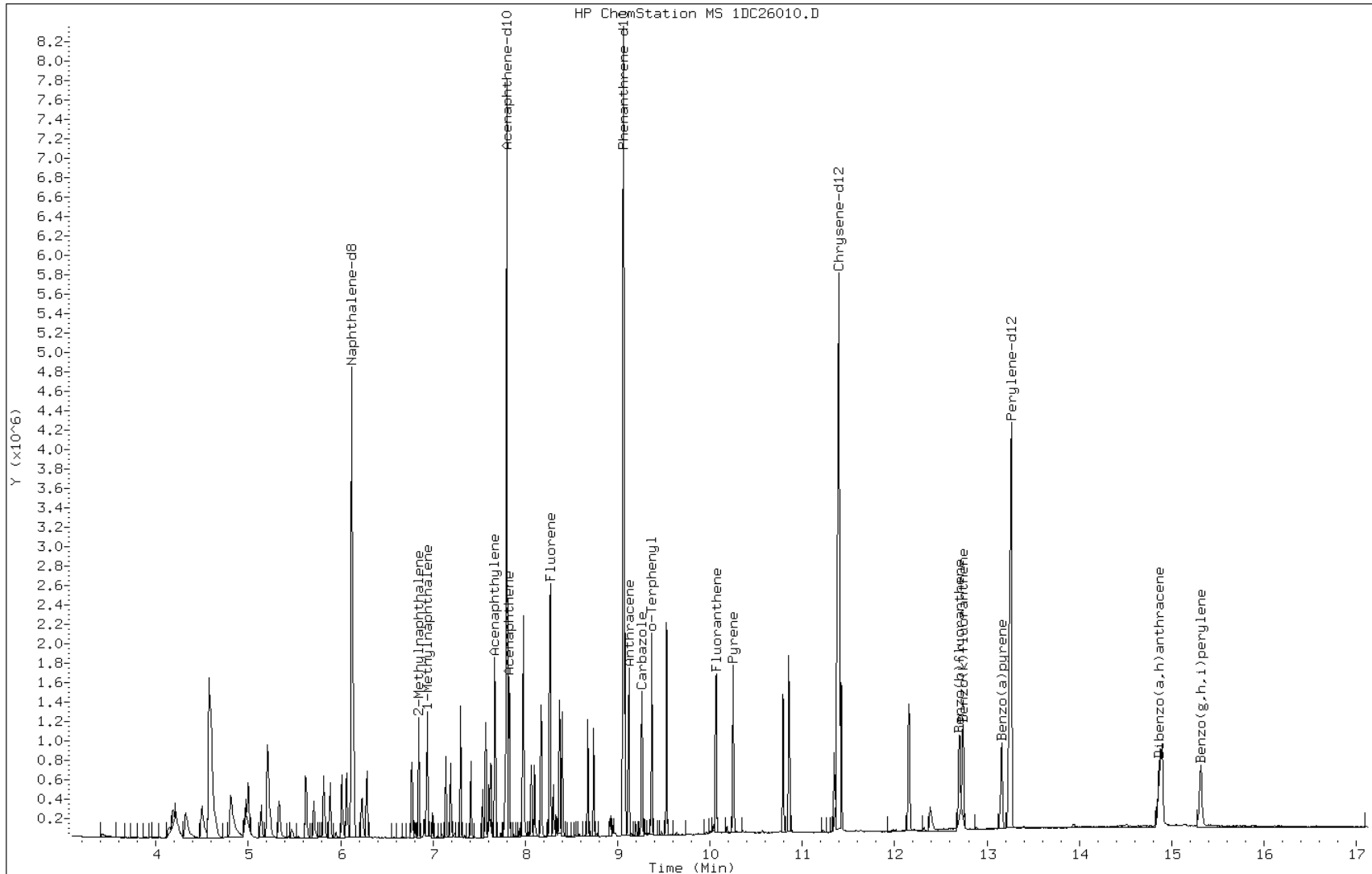
Date: 26-MAR-2013 13:10

Client ID:

Instrument: BSMSD.i

Sample Info: LCS 660-135608/2-A

Operator: SCC



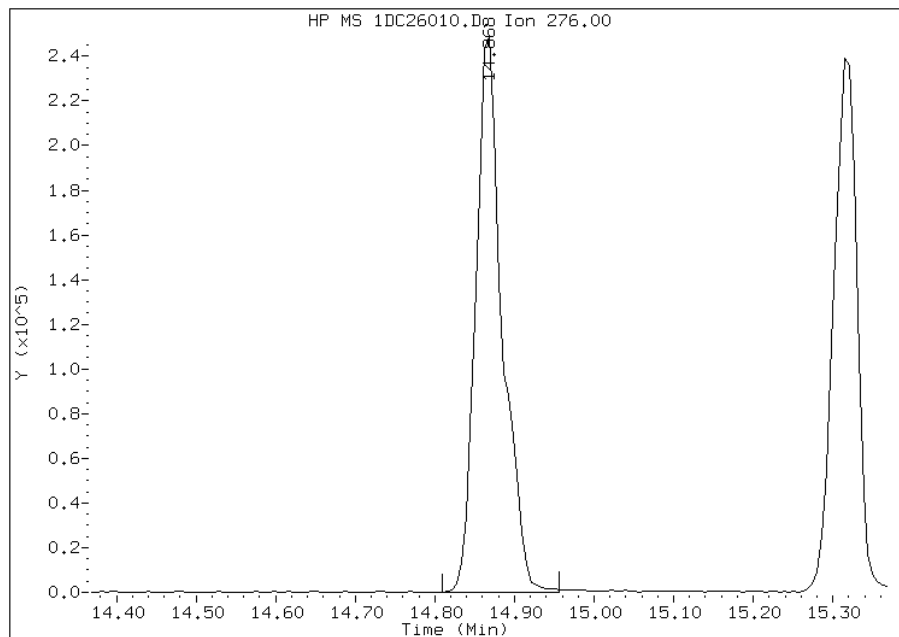


Manual Integration Report

Data File: 1DC26010.D  
Inj. Date and Time: 26-MAR-2013 13:10  
Instrument ID: BSMSSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/26/2013

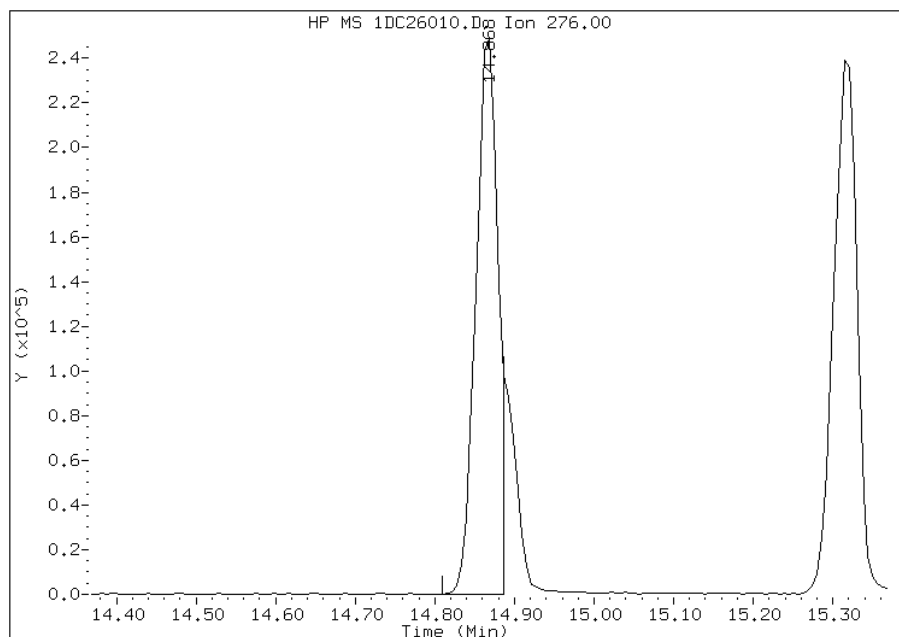
Processing Integration Results

RT: 14.87  
Response: 575702  
Amount: 8  
Conc: 541



Manual Integration Results

RT: 14.87  
Response: 480691  
Amount: 7  
Conc: 452



Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 13:31  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 660-135631/2-A  
 Matrix: Solid Lab File ID: 1AC26006.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 03/21/2013 11:14  
 Sample wt/vol: 15.31(g) Date Analyzed: 03/26/2013 12:15  
 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.: 135850 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	430		98	20
208-96-8	Acenaphthylene	477		39	4.9
120-12-7	Anthracene	437		8.2	4.1
56-55-3	Benzo[a]anthracene	501		7.8	3.8
50-32-8	Benzo[a]pyrene	427		10	5.1
205-99-2	Benzo[b]fluoranthene	471		12	6.0
191-24-2	Benzo[g,h,i]perylene	437		20	4.3
207-08-9	Benzo[k]fluoranthene	501		7.8	3.5
218-01-9	Chrysene	489		8.8	4.4
53-70-3	Dibenz(a,h)anthracene	496		20	4.0
206-44-0	Fluoranthene	479		20	3.9
86-73-7	Fluorene	491		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	434		20	7.0
90-12-0	1-Methylnaphthalene	506		39	4.3
91-57-6	2-Methylnaphthalene	420		39	7.0
91-20-3	Naphthalene	440		39	4.3
85-01-8	Phenanthrene	437		7.8	3.8
129-00-0	Pyrene	411		20	3.6

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



Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	4.408	4.408	(1.048)	76367	6.27731	410.0136
15 Fluoranthene	202	5.059	5.065	(1.203)	103769	7.33345	478.9976
16 Pyrene	202	5.225	5.226	(0.845)	108957	6.29885	411.4206
17 Benzo(a)anthracene	228	6.181	6.177	(0.999)	131292	7.67305	501.1787
19 Chrysene	228	6.202	6.209	(1.003)	117058	7.49142	489.3151
20 Benzo(b)fluoranthene	252	6.993	6.994	(0.962)	97520	7.20864	470.8450
21 Benzo(k)fluoranthene	252	7.009	7.015	(0.964)	121968	7.67337	501.2000
22 Benzo(a)pyrene	252	7.217	7.224	(0.993)	90399	6.53697	426.9736
24 Indeno(1,2,3-cd)pyrene	276	7.960	7.972	(1.095)	82975	6.64978	434.3421(M)
25 Dibenzo(a,h)anthracene	278	7.971	7.982	(1.096)	93837	7.58785	495.6142
26 Benzo(g,h,i)perylene	276	8.136	8.148	(1.119)	84110	6.69653	437.3959

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AC26006.D

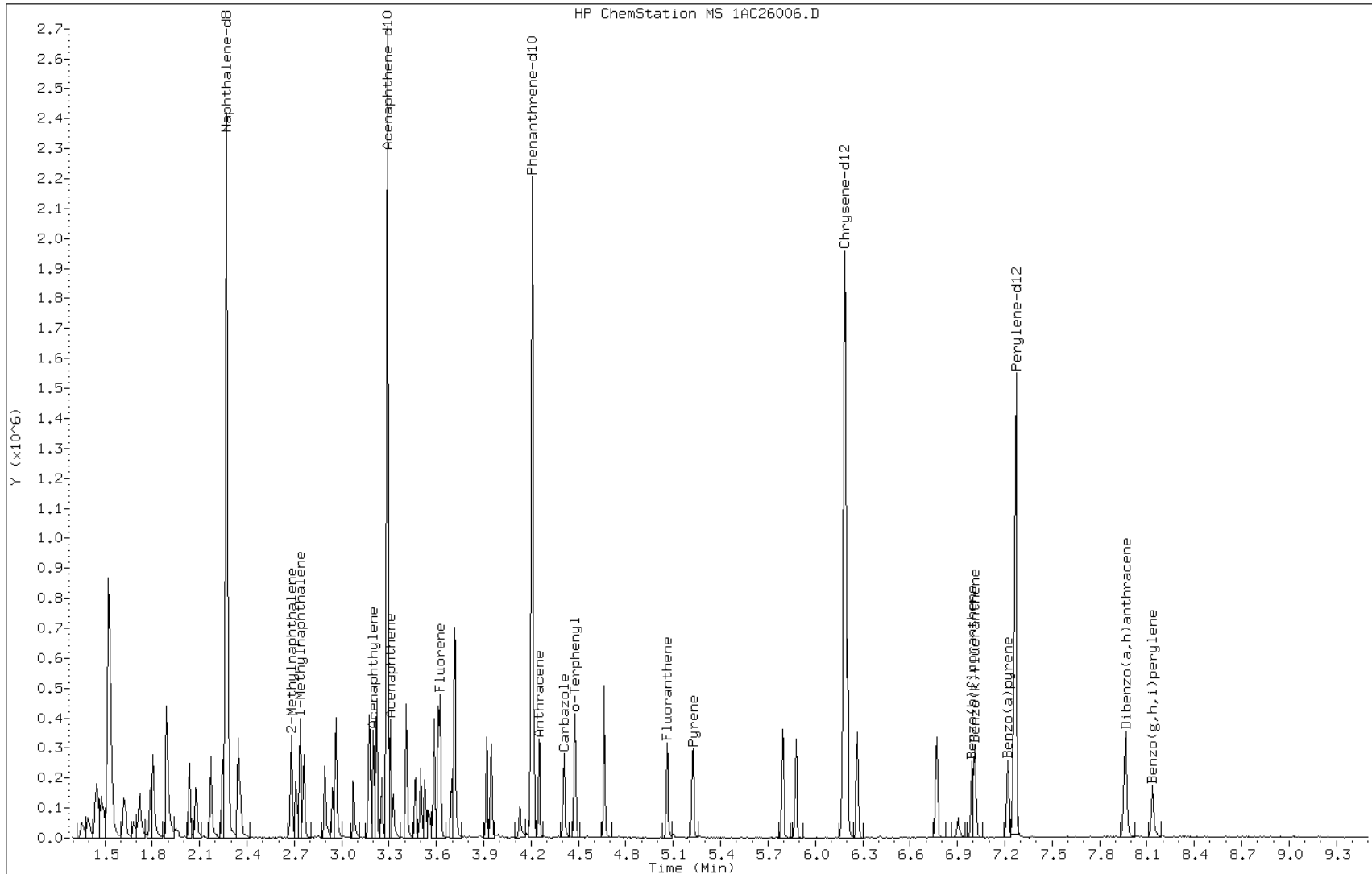
Date: 26-MAR-2013 12:15

Client ID:

Instrument: BSMA5973.i

Sample Info: lcs 660-135631/2-a

Operator: SCC

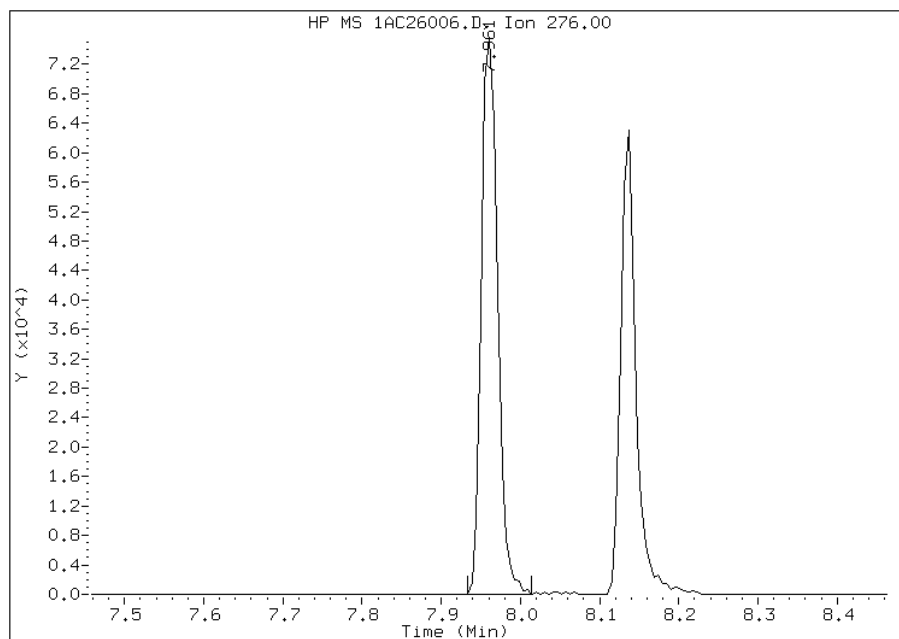


Manual Integration Report

Data File: 1AC26006.D  
Inj. Date and Time: 26-MAR-2013 12:15  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/28/2013

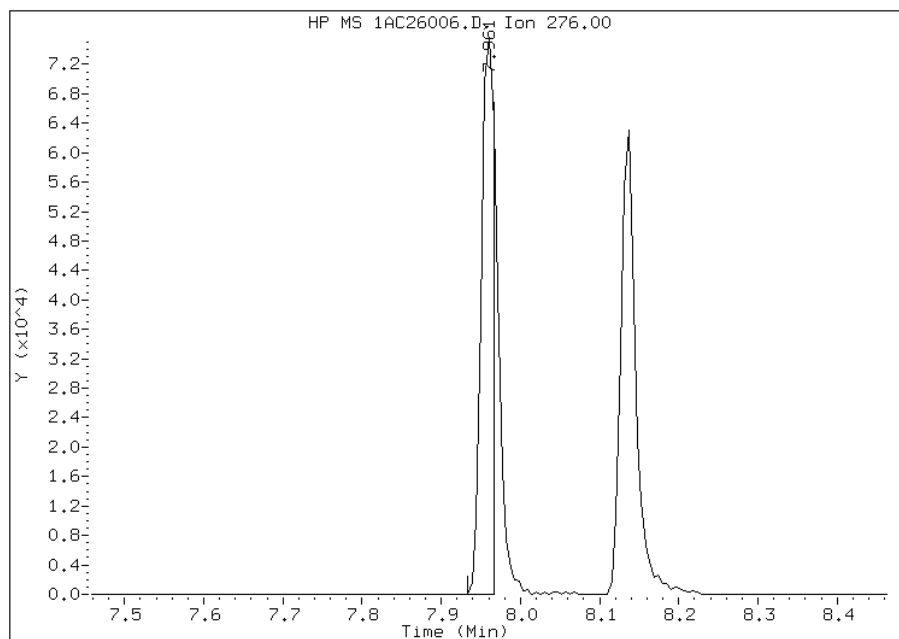
Processing Integration Results

RT: 7.96  
Response: 106757  
Amount: 9  
Conc: 559



Manual Integration Results

RT: 7.96  
Response: 82975  
Amount: 7  
Conc: 434



Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 11:03  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: 680-88348-A-21-B MS  
 Matrix: Solid Lab File ID: 1AC21013.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 03/21/2013 08:38  
 Sample wt/vol: 15.35(g) Date Analyzed: 03/21/2013 18:12  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 30.3 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135630 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	559		140	28
208-96-8	Acenaphthylene	554		56	7.0
120-12-7	Anthracene	554		12	5.9
56-55-3	Benzo[a]anthracene	695		11	5.5
50-32-8	Benzo[a]pyrene	539		15	7.3
205-99-2	Benzo[b]fluoranthene	666		17	8.5
191-24-2	Benzo[g,h,i]perylene	512		28	6.2
207-08-9	Benzo[k]fluoranthene	618		11	5.0
218-01-9	Chrysene	562		13	6.3
53-70-3	Dibenz(a,h)anthracene	548		28	5.7
206-44-0	Fluoranthene	592		28	5.6
86-73-7	Fluorene	591		28	5.7
193-39-5	Indeno[1,2,3-cd]pyrene	475		28	9.9
90-12-0	1-Methylnaphthalene	594		56	6.2
91-57-6	2-Methylnaphthalene	541		56	9.9
91-20-3	Naphthalene	560		56	6.2
85-01-8	Phenanthrene	611		11	5.5
129-00-0	Pyrene	562		28	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	62		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\1AC21013.D  
 Lab Smp Id: 680-88348-a-21-b ms  
 Inj Date : 21-MAR-2013 18:12  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-88348-a-21-b ms  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\a-bFASTPAHi-m.m  
 Meth Date : 21-Mar-2013 17:07 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D  
 Als bottle: 8 QC Sample: MS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.350	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/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.281	2.282	(1.000)	627214	40.0000	
* 6 Acenaphthene-d10	164		3.302	3.302	(1.000)	412385	40.0000	
* 10 Phenanthrene-d10	188		4.221	4.221	(1.000)	551006	40.0000	
\$ 14 o-Terphenyl	230		4.493	4.499	(1.065)	44553	6.20663	404.3408
* 18 Chrysene-d12	240		6.208	6.208	(1.000)	506852	40.0000	
* 23 Perylene-d12	264		7.292	7.292	(1.000)	434781	40.0000	
2 Naphthalene	128		2.292	2.292	(1.005)	86852	5.99361	390.4634
3 2-Methylnaphthalene	141		2.693	2.693	(1.180)	43617	5.78733	377.0245
4 1-Methylnaphthalene	142		2.746	2.752	(1.204)	53001	6.36077	414.3823
5 Acenaphthylene	152		3.216	3.216	(0.974)	85935	5.92912	386.2620
7 Acenaphthene	154		3.318	3.318	(1.005)	48487	5.98438	389.8621
9 Fluorene	166		3.622	3.628	(1.097)	63296	6.32443	412.0147
11 Phenanthrene	178		4.231	4.237	(1.003)	91279	6.53622	425.8127
12 Anthracene	178		4.263	4.269	(1.010)	80303	5.93037	386.3434



Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.424	4.424	(1.048)	57231	4.82215	314.1464(R)
15 Fluoranthene	202	5.075	5.081	(1.202)	87462	6.33580	412.7559
16 Pyrene	202	5.241	5.246	(0.844)	87464	6.01846	392.0821
17 Benzo(a)anthracene	228	6.197	6.197	(0.998)	106902	7.44164	484.7971
19 Chrysene	228	6.219	6.224	(1.002)	79021	6.01943	392.1452
20 Benzo(b)fluoranthene	252	7.009	7.015	(0.961)	71000	7.12905	464.4330
21 Benzo(k)fluoranthene	252	7.031	7.036	(0.964)	77599	6.61665	431.0520
22 Benzo(a)pyrene	252	7.239	7.244	(0.993)	58905	5.77306	376.0953
24 Indeno(1,2,3-cd)pyrene	276	7.981	7.987	(1.094)	46799	5.08321	331.1537(M)
25 Dibenzo(a,h)anthracene	278	7.992	7.998	(1.096)	53561	5.86996	382.4078
26 Benzo(g,h,i)perylene	276	8.163	8.169	(1.119)	50792	5.48074	357.0514

QC Flag Legend

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

Data File: 1AC21013.D

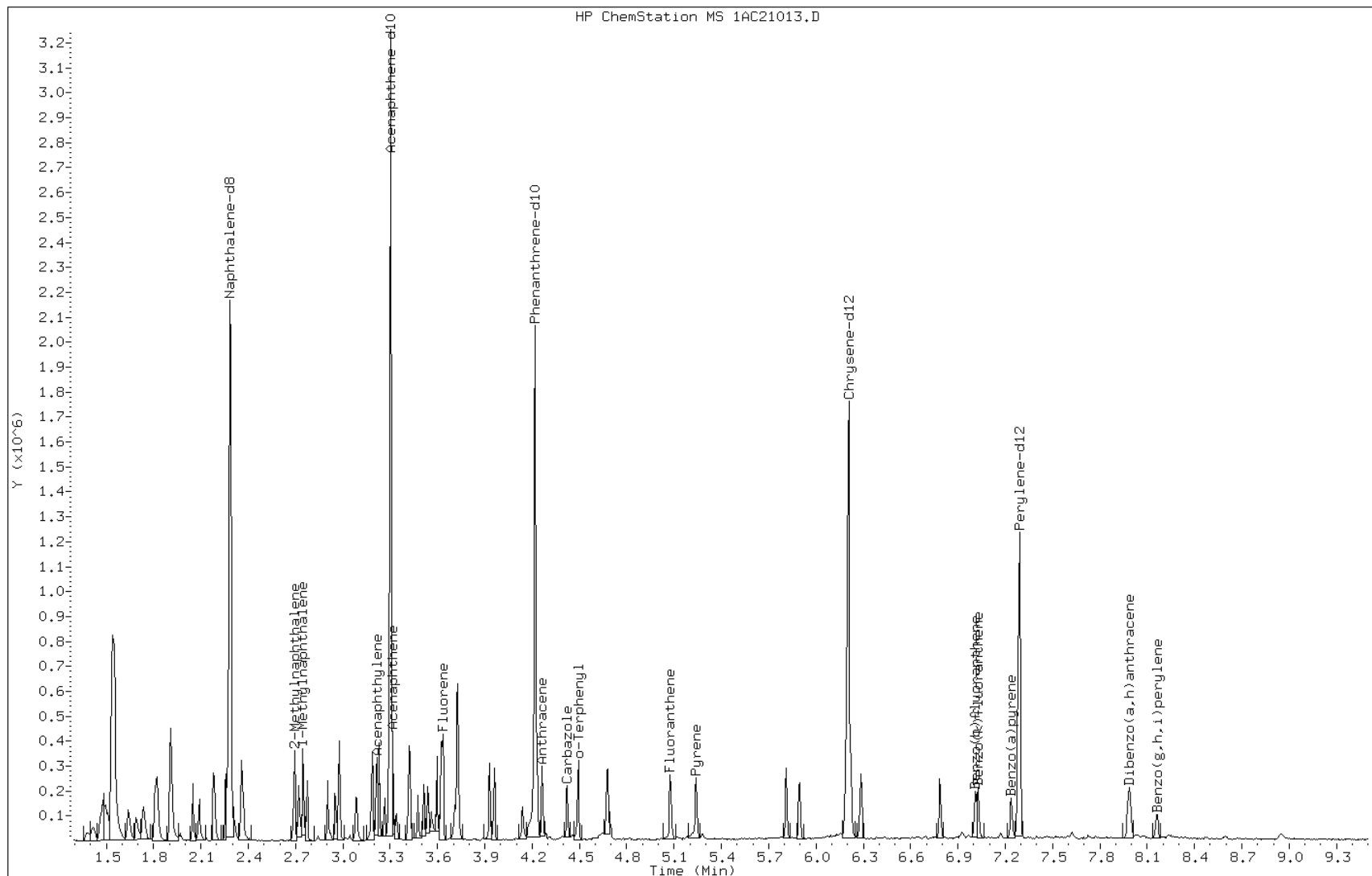
Date: 21-MAR-2013 18:12

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-88348-a-21-b ms

Operator: SCC

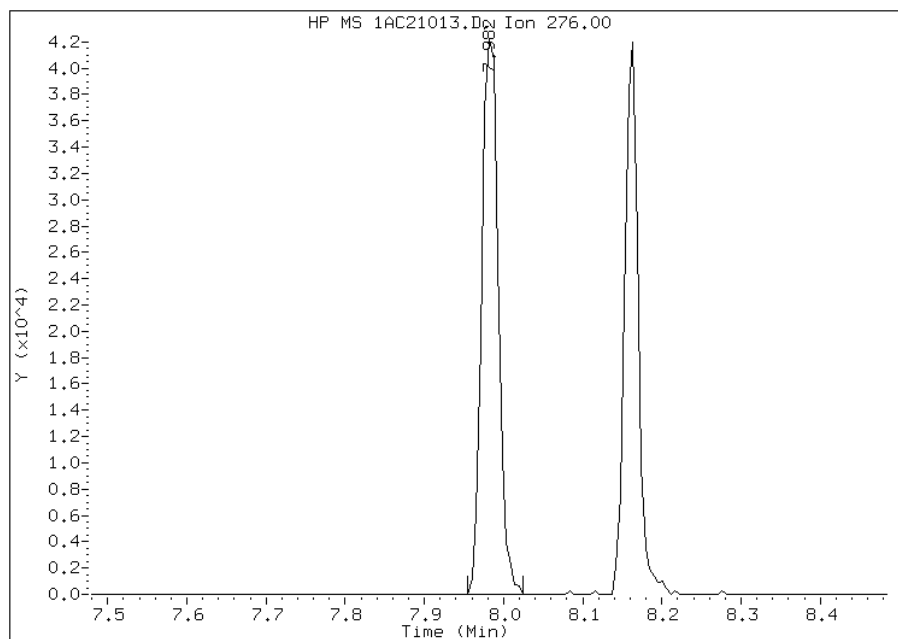


# Manual Integration Report

Data File: 1AC21013.D  
Inj. Date and Time: 21-MAR-2013 18:12  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/26/2013

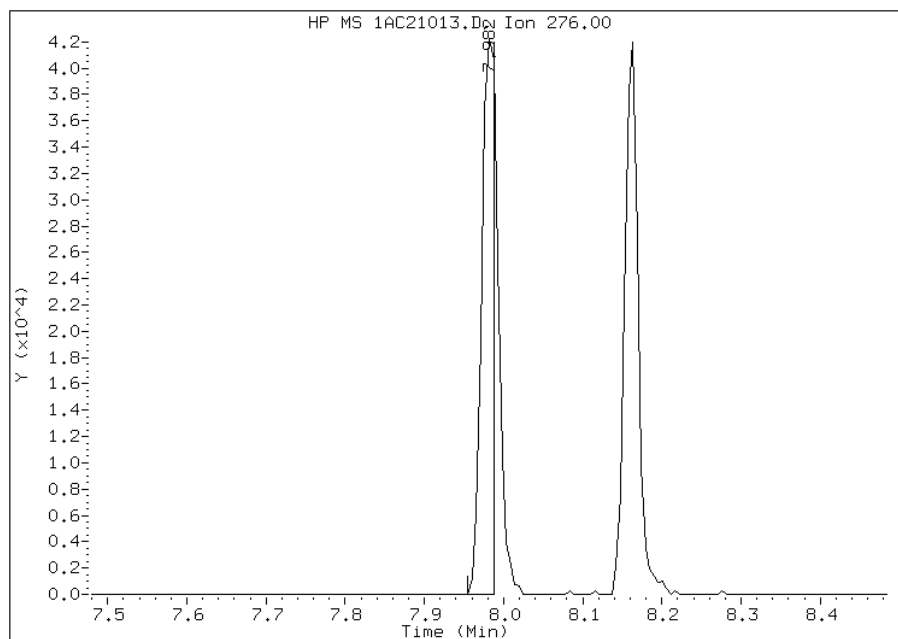
## Processing Integration Results

RT: 7.98  
Response: 60673  
Amount: 7  
Conc: 429



## Manual Integration Results

RT: 7.98  
Response: 46799  
Amount: 5  
Conc: 331



Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:06  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: CV1151A-CS-SP MS Lab Sample ID: 680-88420-12 MS  
 Matrix: Solid Lab File ID: 1CC27030.D  
 Analysis Method: 8270C LL Date Collected: 03/14/2013 11:19  
 Extract. Method: 3546 Date Extracted: 03/21/2013 11:14  
 Sample wt/vol: 15.21(g) Date Analyzed: 03/27/2013 19:03  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 22.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	655		130	25
208-96-8	Acenaphthylene	619		51	6.3
120-12-7	Anthracene	772		11	5.3
56-55-3	Benzo[a]anthracene	1180		10	4.9
50-32-8	Benzo[a]pyrene	1110		13	6.6
205-99-2	Benzo[b]fluoranthene	1500		15	7.7
191-24-2	Benzo[g,h,i]perylene	846		25	5.6
207-08-9	Benzo[k]fluoranthene	1040		10	4.6
218-01-9	Chrysene	1240		11	5.7
53-70-3	Dibenz(a,h)anthracene	742		25	5.2
206-44-0	Fluoranthene	1800		25	5.1
86-73-7	Fluorene	654		25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	847		25	9.0
90-12-0	1-Methylnaphthalene	882		51	5.6
91-57-6	2-Methylnaphthalene	844		51	9.0
91-20-3	Naphthalene	772		51	5.6
85-01-8	Phenanthrene	1400		10	4.9
129-00-0	Pyrene	1640		25	4.7

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

TestAmerica Laboratories

Semivolatle 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27030.D  
 Lab Smp Id: 680-88420-a-12-b ms  
 Inj Date : 27-MAR-2013 19:03  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88420-a-12-b ms  
 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: 30 QC Sample: MS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.210	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)	748184	40.0000		
* 6 Acenaphthene-d10	164		4.815	4.815	(1.000)	600094	40.0000		
* 10 Phenanthrene-d10	188		5.762	5.762	(1.000)	1084844	40.0000		
\$ 14 o-Terphenyl	230		6.015	6.015	(1.044)	115668	7.06184	464.2894	
* 18 Chrysene-d12	240		7.709	7.704	(1.000)	1208629	40.0000		
* 23 Perylene-d12	264		8.892	8.886	(1.000)	1100846	40.0000		
2 Naphthalene	128		3.739	3.739	(1.003)	178462	9.16221	602.3804	
3 2-Methylnaphthalene	142		4.168	4.168	(1.118)	130043	10.0089	658.0482	
4 1-Methylnaphthalene	142		4.227	4.227	(1.134)	123790	10.4612	687.7839	
5 Acenaphthylene	152		4.727	4.727	(0.982)	177733	7.34619	482.9841	
7 Acenaphthene	154		4.833	4.833	(1.004)	116885	7.77271	511.0263	
9 Fluorene	166		5.157	5.157	(1.071)	147513	7.75645	509.9570	
11 Phenanthrene	178		5.780	5.780	(1.003)	521480	16.6241	1092.9724(R)	
12 Anthracene	178		5.815	5.815	(1.009)	280951	9.15789	602.0964	

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)	218265	8.00352	526.2012
15 Fluoranthene	202	6.615	6.615	(1.148)	733891	21.3634	1404.5624(R)
16 Pyrene	202	6.786	6.786	(0.880)	631812	19.4522	1278.9112(R)
17 Benzo(a)anthracene	228	7.698	7.698	(0.998)	487548	13.9765	918.9031(R)
19 Chrysene	228	7.727	7.727	(1.002)	514620	14.7415	969.1989(R)
20 Benzo(b)fluoranthene	252	8.545	8.539	(0.961)	511774	17.7890	1169.5566(R)
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.963)	362984	12.2992	808.6281
22 Benzo(a)pyrene	252	8.833	8.833	(0.993)	366824	13.1270	863.0481(R)
24 Indeno(1,2,3-cd)pyrene	276	10.050	10.050	(1.130)	264054	10.0448	660.4062(M)
25 Dibenzo(a,h)anthracene	278	10.068	10.068	(1.132)	226427	8.80592	578.9556
26 Benzo(g,h,i)perylene	276	10.403	10.397	(1.170)	275867	10.0318	659.5558

QC Flag Legend

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

Data File: 1CC27030.D

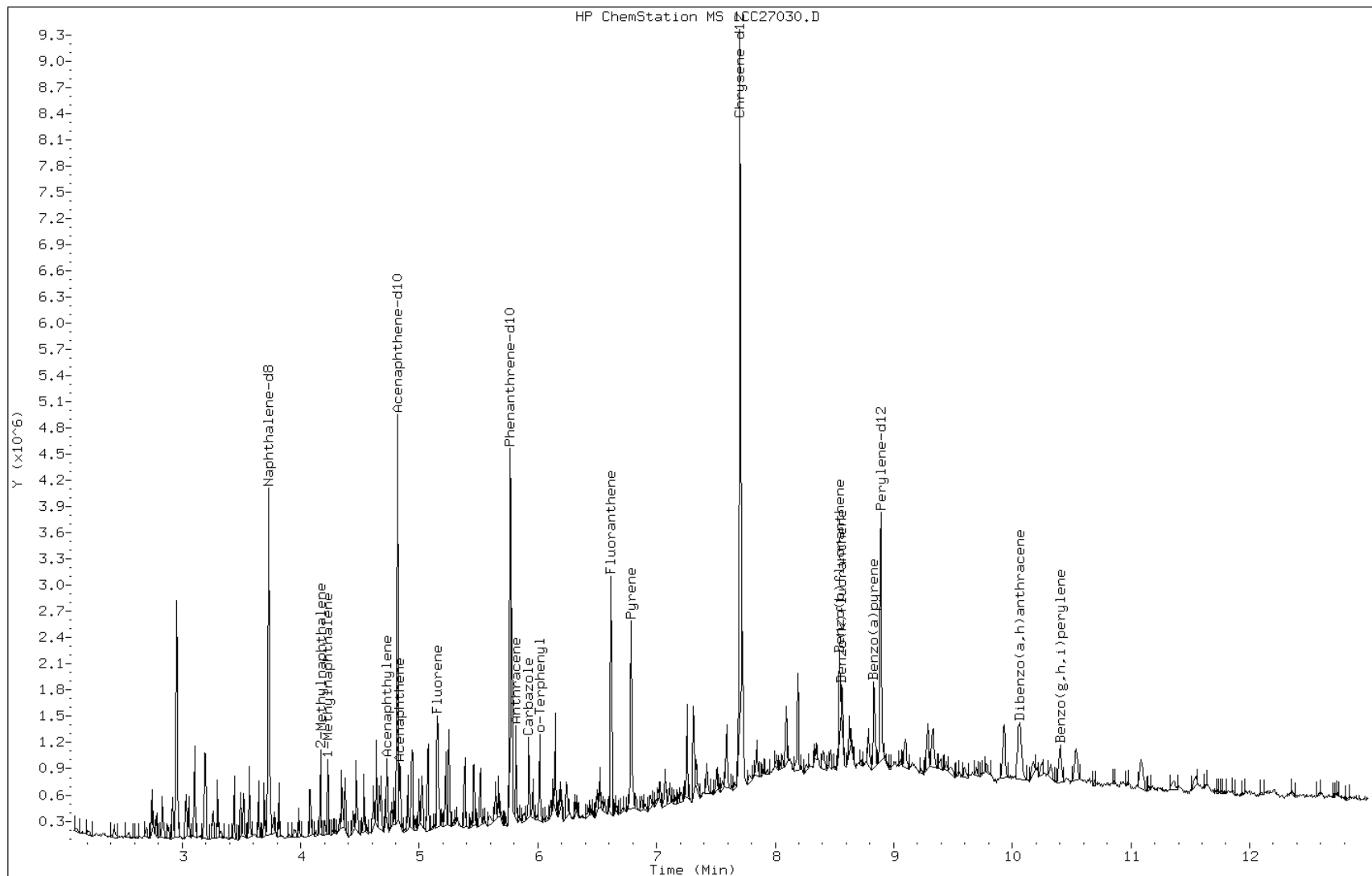
Date: 27-MAR-2013 19:03

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88420-a-12-b ms

Operator: SCC

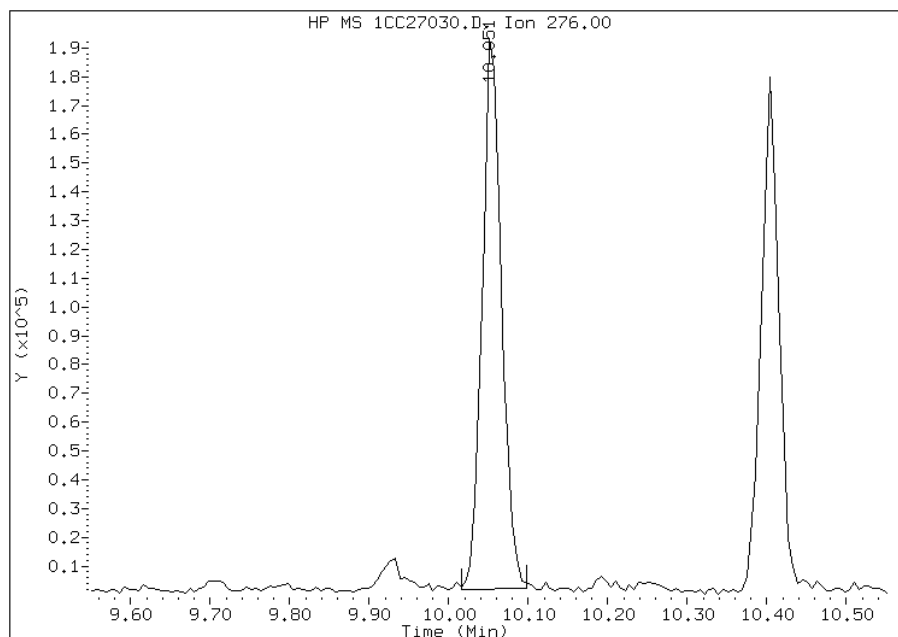


# Manual Integration Report

Data File: 1CC27030.D  
Inj. Date and Time: 27-MAR-2013 19:03  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/28/2013

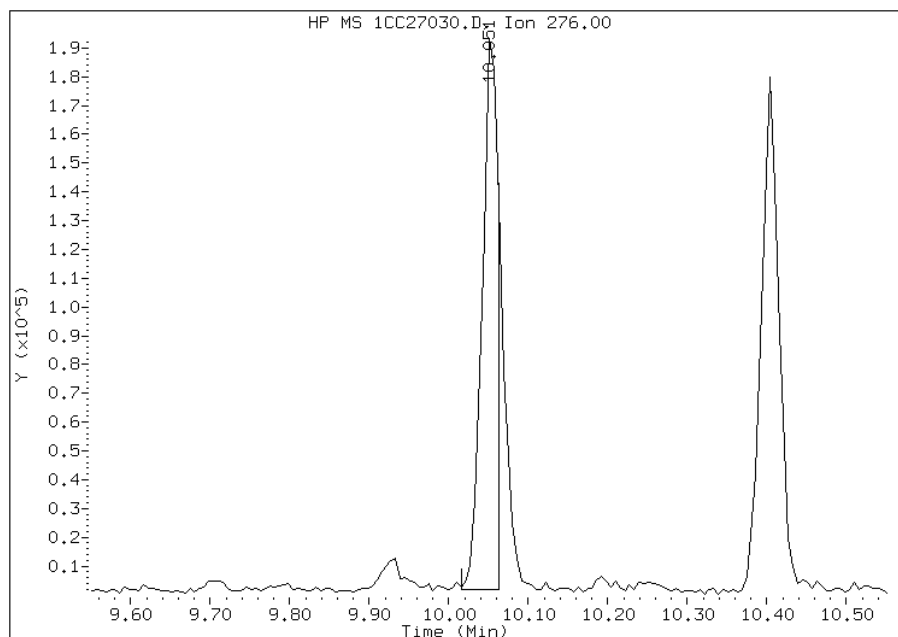
## Processing Integration Results

RT: 10.05  
Response: 320451  
Amount: 12  
Conc: 801



## Manual Integration Results

RT: 10.05  
Response: 264054  
Amount: 10  
Conc: 660



Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 12:10  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: 680-88348-A-21-C MSD  
 Matrix: Solid Lab File ID: 1AC21014.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 03/21/2013 08:38  
 Sample wt/vol: 15.02(g) Date Analyzed: 03/21/2013 18:27  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 30.3 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135630 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	622		140	29
208-96-8	Acenaphthylene	646		57	7.2
120-12-7	Anthracene	668		12	6.0
56-55-3	Benzo[a]anthracene	794		11	5.6
50-32-8	Benzo[a]pyrene	623		15	7.4
205-99-2	Benzo[b]fluoranthene	716		17	8.7
191-24-2	Benzo[g,h,i]perylene	527		29	6.3
207-08-9	Benzo[k]fluoranthene	740		11	5.2
218-01-9	Chrysene	665		13	6.4
53-70-3	Dibenz(a,h)anthracene	595		29	5.9
206-44-0	Fluoranthene	672		29	5.7
86-73-7	Fluorene	680		29	5.9
193-39-5	Indeno[1,2,3-cd]pyrene	541		29	10
90-12-0	1-Methylnaphthalene	721		57	6.3
91-57-6	2-Methylnaphthalene	656		57	10
91-20-3	Naphthalene	642		57	6.3
85-01-8	Phenanthrene	650		11	5.6
129-00-0	Pyrene	679		29	5.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	68		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\1AC21014.D  
 Lab Smp Id: 680-88348-a-21-c ms  
 Inj Date : 21-MAR-2013 18:27  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-88348-a-21-c msd  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032113.b\a-bFASTPAHi-m.m  
 Meth Date : 21-Mar-2013 17:07 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D  
 Als bottle: 9 QC Sample: MSD  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	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		2.282	2.282	(1.000)	557507	40.0000	
* 6 Acenaphthene-d10	164		3.302	3.302	(1.000)	373187	40.0000	
* 10 Phenanthrene-d10	188		4.221	4.221	(1.000)	552845	40.0000	
\$ 14 o-Terphenyl	230		4.493	4.499	(1.065)	49300	6.81910	454.0011
* 18 Chrysene-d12	240		6.208	6.208	(1.000)	471747	40.0000	
* 23 Perylene-d12	264		7.292	7.292	(1.000)	403649	40.0000	
2 Naphthalene	128		2.292	2.292	(1.005)	86618	6.72485	447.7262
3 2-Methylnaphthalene	141		2.693	2.693	(1.180)	47362	6.87474	457.7055
4 1-Methylnaphthalene	142		2.746	2.752	(1.204)	55963	7.55600	503.0626
5 Acenaphthylene	152		3.216	3.216	(0.974)	89432	6.77148	450.8312
7 Acenaphthene	154		3.318	3.318	(1.005)	48143	6.51179	433.5414
9 Fluorene	166		3.628	3.628	(1.099)	64976	7.12075	474.0845
11 Phenanthrene	178		4.231	4.237	(1.003)	95426	6.81045	453.4254
12 Anthracene	178		4.263	4.269	(1.010)	95072	6.99771	465.8926

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	4.424	4.424	(1.048)	76826	6.45164	429.5368
15 Fluoranthene	202	5.081	5.081	(1.204)	97490	7.03875	468.6249
16 Pyrene	202	5.241	5.246	(0.844)	96166	7.10967	473.3471
17 Benzo(a)anthracene	228	6.197	6.197	(0.998)	111466	8.31650	553.6953
19 Chrysene	228	6.224	6.224	(1.003)	85142	6.96833	463.9366
20 Benzo(b)fluoranthene	252	7.015	7.015	(0.962)	70110	7.50611	499.7408
21 Benzo(k)fluoranthene	252	7.031	7.036	(0.964)	84366	7.74847	515.8769
22 Benzo(a)pyrene	252	7.239	7.244	(0.993)	61829	6.52699	434.5534
24 Indeno(1,2,3-cd)pyrene	276	7.987	7.987	(1.095)	48447	5.66807	377.3680(M)
25 Dibenzo(a,h)anthracene	278	7.992	7.998	(1.096)	52760	6.22813	414.6560
26 Benzo(g,h,i)perylene	276	8.169	8.169	(1.120)	47482	5.51873	367.4257

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AC21014.D

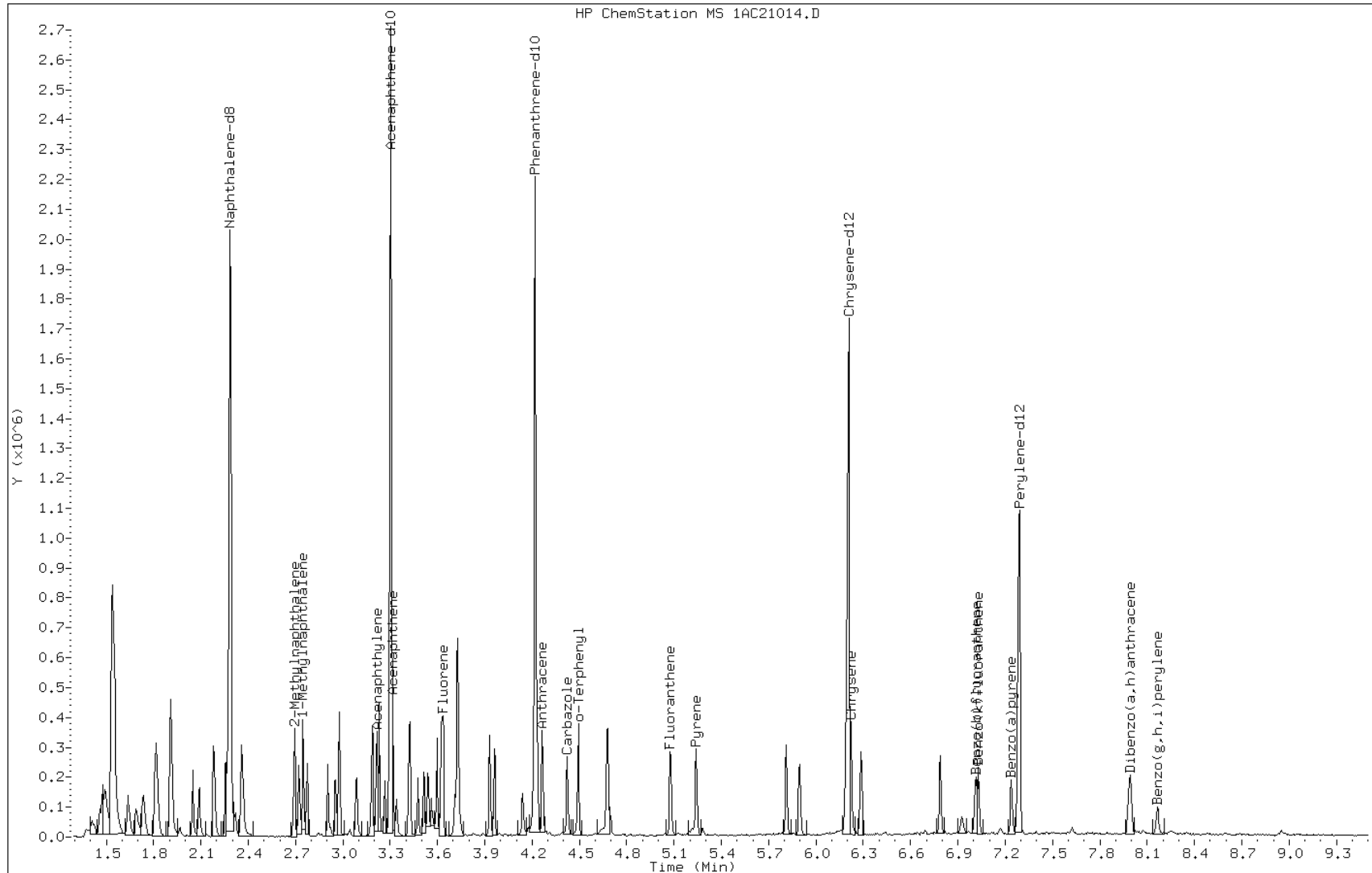
Date: 21-MAR-2013 18:27

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-88348-a-21-c msd

Operator: SCC

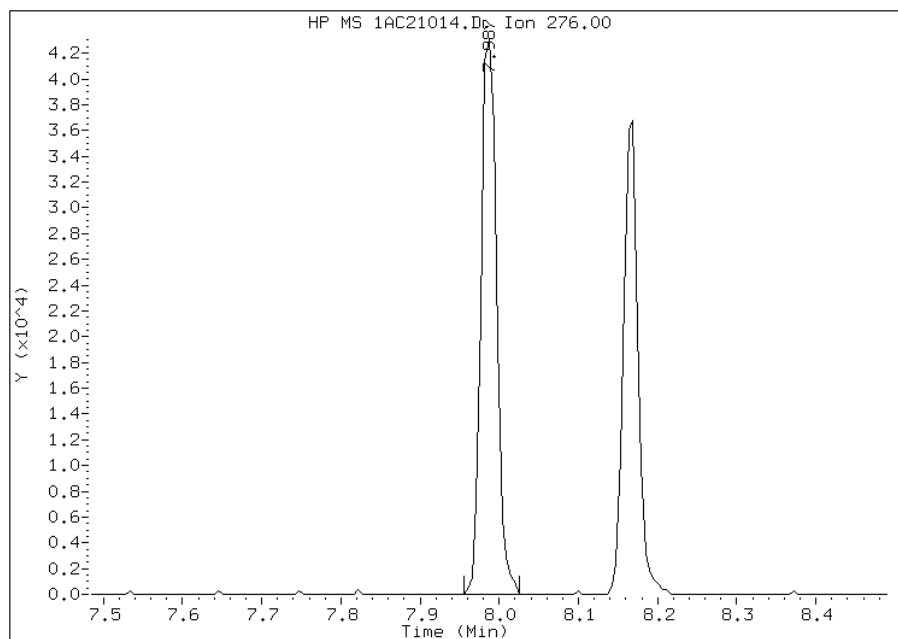


# Manual Integration Report

Data File: 1AC21014.D  
Inj. Date and Time: 21-MAR-2013 18:27  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/26/2013

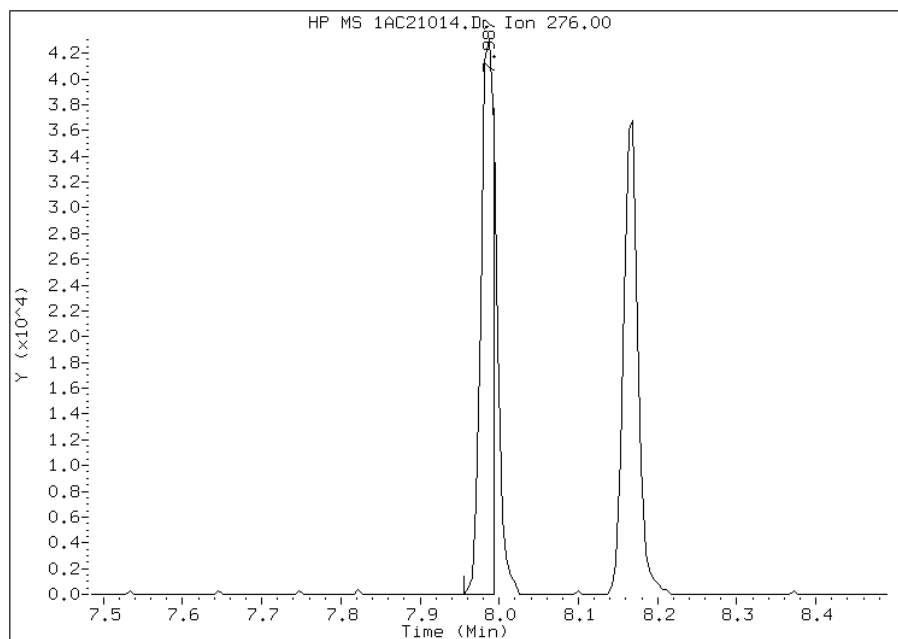
## Processing Integration Results

RT: 7.99  
Response: 58335  
Amount: 7  
Conc: 454



## Manual Integration Results

RT: 7.99  
Response: 48447  
Amount: 6  
Conc: 377



Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 12:07  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1  
 SDG No.: 68088420-1  
 Client Sample ID: CV1151A-CS-SP MSD Lab Sample ID: 680-88420-12 MSD  
 Matrix: Solid Lab File ID: 1AC26009.D  
 Analysis Method: 8270C LL Date Collected: 03/14/2013 11:19  
 Extract. Method: 3546 Date Extracted: 03/21/2013 11:14  
 Sample wt/vol: 15.10(g) Date Analyzed: 03/26/2013 13:08  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 22.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135850 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	642		130	25
208-96-8	Acenaphthylene	624		51	6.4
120-12-7	Anthracene	682		11	5.3
56-55-3	Benzo[a]anthracene	997		10	5.0
50-32-8	Benzo[a]pyrene	703		13	6.6
205-99-2	Benzo[b]fluoranthene	1030		16	7.8
191-24-2	Benzo[g,h,i]perylene	691		25	5.6
207-08-9	Benzo[k]fluoranthene	701		10	4.6
218-01-9	Chrysene	1010		11	5.7
53-70-3	Dibenz(a,h)anthracene	733		25	5.2
206-44-0	Fluoranthene	1020		25	5.1
86-73-7	Fluorene	725		25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	818		25	9.0
90-12-0	1-Methylnaphthalene	796		51	5.6
91-57-6	2-Methylnaphthalene	748		51	9.0
91-20-3	Naphthalene	683		51	5.6
85-01-8	Phenanthrene	1140		10	5.0
129-00-0	Pyrene	1100		25	4.7

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\BSMA5973.i\1A032613.b\1AC26009.D  
 Lab Smp Id: 680-88420-a-12-c ms  
 Inj Date : 26-MAR-2013 13:08  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-88420-a-12-c msd  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\a-bFASTPAHi-m.m  
 Meth Date : 26-Mar-2013 11:39 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D  
 Als bottle: 9 QC Sample: MSD  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.100	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.271	2.272	(1.000)	403465	40.0000	
* 6 Acenaphthene-d10	164		3.291	3.287	(1.000)	294426	40.0000	
* 10 Phenanthrene-d10	188		4.210	4.205	(1.000)	443904	40.0000	
\$ 14 o-Terphenyl	230		4.482	4.478	(1.065)	42777	7.34583	486.4791
* 18 Chrysene-d12	240		6.197	6.193	(1.000)	337381	40.0000	
* 23 Perylene-d12	264		7.292	7.272	(1.000)	395007	40.0000	
2 Naphthalene	128		2.281	2.282	(1.005)	75023	8.04847	533.0111
3 2-Methylnaphthalene	141		2.682	2.683	(1.181)	45353	8.81185	583.5664
4 1-Methylnaphthalene	142		2.735	2.736	(1.205)	50244	9.37389	620.7871
5 Acenaphthylene	152		3.205	3.201	(0.974)	76864	7.34533	486.4460
7 Acenaphthene	154		3.307	3.308	(1.005)	44683	7.55490	500.3243
9 Fluorene	166		3.617	3.612	(1.099)	62188	8.53811	565.4376
11 Phenanthrene	178		4.220	4.221	(1.003)	151539	13.4694	892.0123(R)
12 Anthracene	178		4.252	4.253	(1.010)	87653	8.03497	532.1172

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.413	4.408	(1.048)	68245	7.13752	472.6833
15 Fluoranthene	202	5.070	5.065	(1.204)	133770	12.0284	796.5836
16 Pyrene	202	5.230	5.226	(0.844)	124785	12.8997	854.2837
17 Benzo(a)anthracene	228	6.192	6.177	(0.999)	113266	11.7456	777.8534
19 Chrysene	228	6.213	6.209	(1.003)	104200	11.9245	789.7035
20 Benzo(b)fluoranthene	252	7.009	6.994	(0.961)	118880	12.1247	802.9623
21 Benzo(k)fluoranthene	252	7.025	7.015	(0.963)	87917	8.25127	546.4414
22 Benzo(a)pyrene	252	7.239	7.224	(0.993)	76701	8.27410	547.9539
24 Indeno(1,2,3-cd)pyrene	276	8.003	7.972	(1.097)	80538	9.62871	637.6628(M)
25 Dibenzo(a,h)anthracene	278	8.008	7.982	(1.098)	71530	8.62860	571.4306
26 Benzo(g,h,i)perylene	276	8.179	8.148	(1.122)	68550	8.14174	539.1878

QC Flag Legend

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



Data File: 1AC26009.D

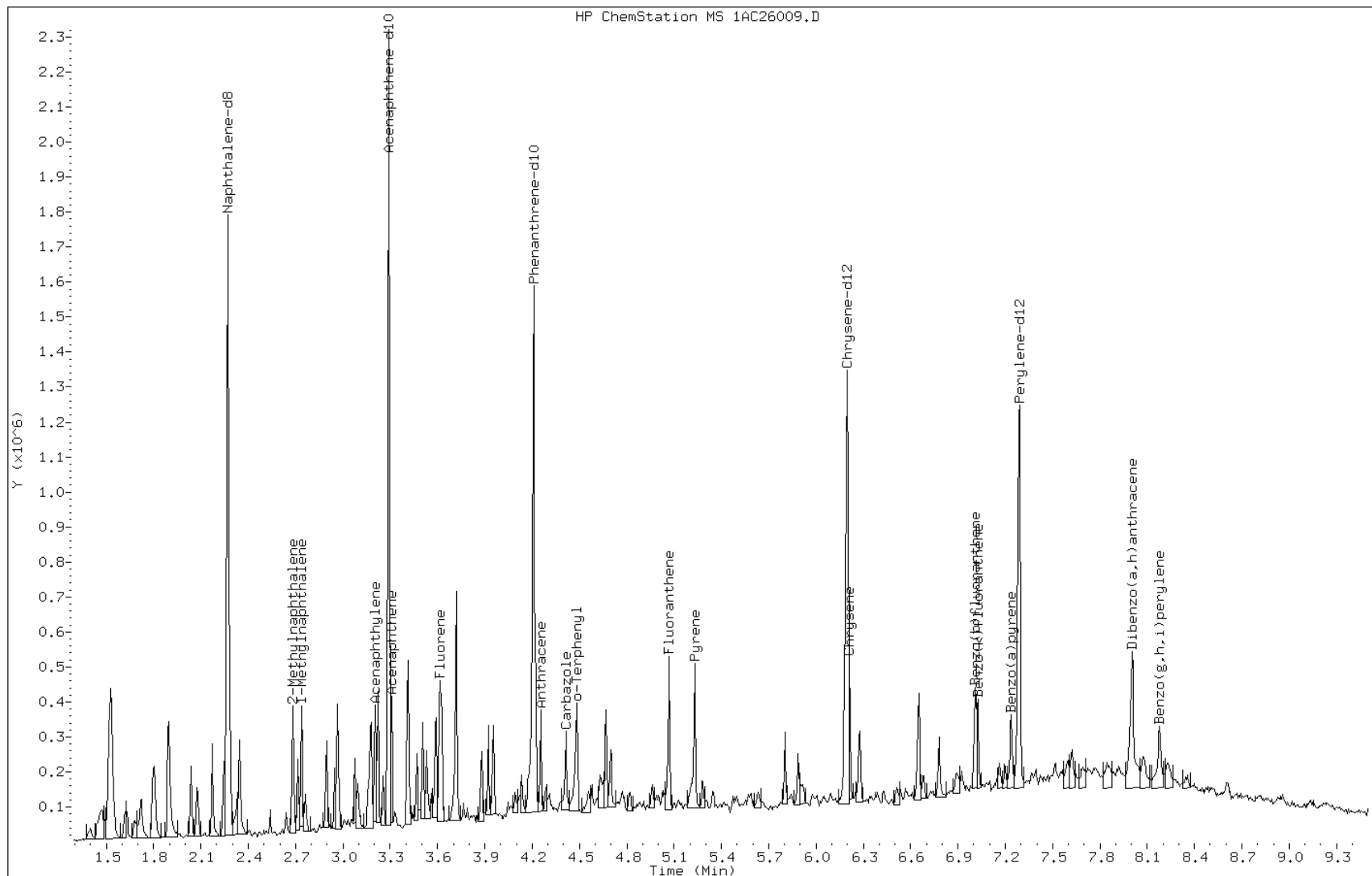
Date: 26-MAR-2013 13:08

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-88420-a-12-c msd

Operator: SCC

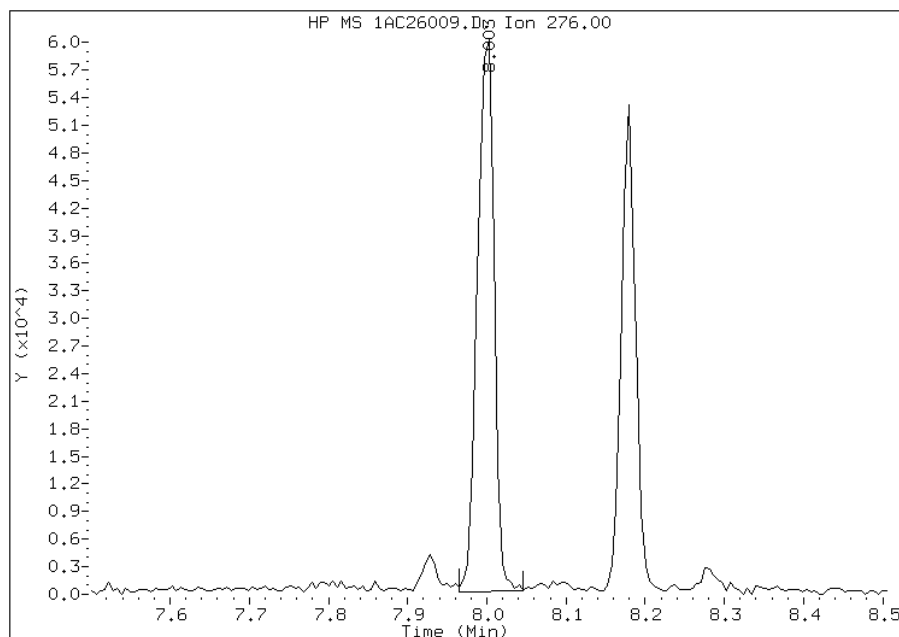


# Manual Integration Report

Data File: 1AC26009.D  
Inj. Date and Time: 26-MAR-2013 13:08  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/28/2013

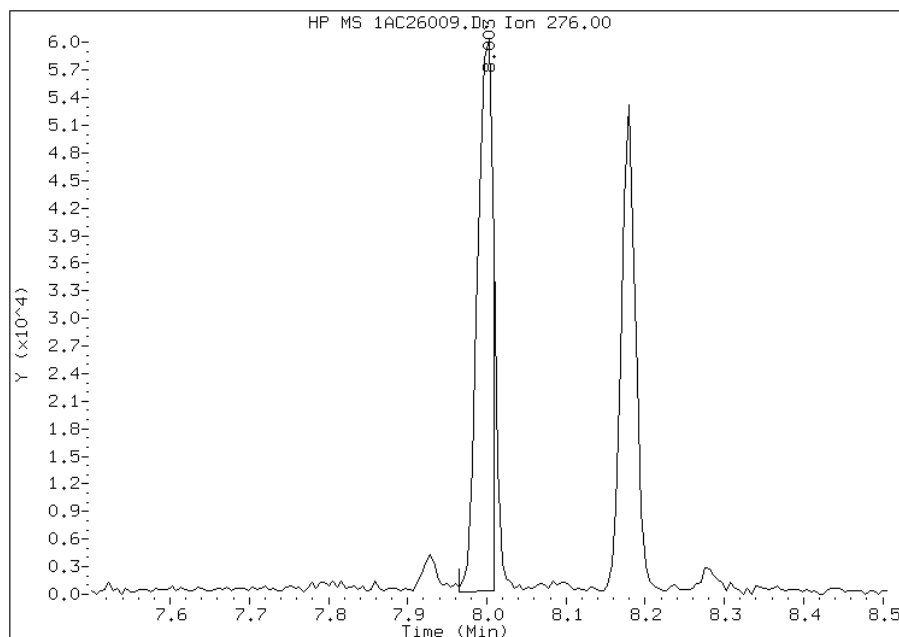
## Processing Integration Results

RT: 8.00  
Response: 86961  
Amount: 10  
Conc: 689



## Manual Integration Results

RT: 8.00  
Response: 80538  
Amount: 10  
Conc: 638



Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 11:07  
Manual Integration Reason: Split Peak

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88420-1SDG No.: 68088420-1Instrument ID: BSMA5973Start Date: 03/15/2013 12:08Analysis Batch Number: 135466End Date: 03/15/2013 21:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/15/2013 12:08	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 12:23	1		DB-5MS 250 (um)
DFTPP 660-135466/2		03/15/2013 12:38	1	1AC15002.D	DB-5MS 250 (um)
ICIS 660-135466/3		03/15/2013 12:54	1	1AC15003.D	DB-5MS 250 (um)
IC 660-135466/4		03/15/2013 13:09	1	1AC15004.D	DB-5MS 250 (um)
IC 660-135466/5		03/15/2013 13:24	1	1AC15005.D	DB-5MS 250 (um)
IC 660-135466/6		03/15/2013 13:39	1	1AC15006.D	DB-5MS 250 (um)
IC 660-135466/7		03/15/2013 13:54	1	1AC15007.D	DB-5MS 250 (um)
IC 660-135466/8		03/15/2013 14:10	1	1AC15008.D	DB-5MS 250 (um)
IC 660-135466/9		03/15/2013 14:25	1	1AC15009.D	DB-5MS 250 (um)
ICV 660-135466/10		03/15/2013 14:39	1	1AC15010.D	DB-5MS 250 (um)
ZZZZZ		03/15/2013 15:17	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 15:32	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 15:47	4		DB-5MS 250 (um)
ZZZZZ		03/15/2013 16:02	4		DB-5MS 250 (um)
ZZZZZ		03/15/2013 16:17	4		DB-5MS 250 (um)
ZZZZZ		03/15/2013 16:33	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 16:48	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 17:03	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 17:18	4		DB-5MS 250 (um)
ZZZZZ		03/15/2013 17:33	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 17:49	4		DB-5MS 250 (um)
ZZZZZ		03/15/2013 18:04	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 18:19	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 18:34	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 18:49	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 19:05	4		DB-5MS 250 (um)
ZZZZZ		03/15/2013 19:20	4		DB-5MS 250 (um)
ZZZZZ		03/15/2013 19:35	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 19:50	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 20:05	4		DB-5MS 250 (um)
ZZZZZ		03/15/2013 20:21	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 20:36	4		DB-5MS 250 (um)
ZZZZZ		03/15/2013 20:51	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 21:06	4		DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88420-1SDG No.: 68088420-1Instrument ID: BSMA5973Start Date: 03/21/2013 09:21Analysis Batch Number: 135630End Date: 03/22/2013 01:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/21/2013 09:21	1		DB-5MS 250 (um)
ZZZZZ		03/21/2013 09:44	1		DB-5MS 250 (um)
DFTPP 660-135630/2		03/21/2013 09:59	1		DB-5MS 250 (um)
DFTPP 660-135630/3		03/21/2013 10:12	1		DB-5MS 250 (um)
DFTPP 660-135630/4		03/21/2013 10:45	1		DB-5MS 250 (um)
ZZZZZ		03/21/2013 15:58	1		DB-5MS 250 (um)
ZZZZZ		03/21/2013 16:13	1		DB-5MS 250 (um)
DFTPP 660-135630/7		03/21/2013 16:28	1		DB-5MS 250 (um)
DFTPP 660-135630/8		03/21/2013 16:44	1	1AC21007.D	DB-5MS 250 (um)
CCVIS 660-135630/9		03/21/2013 16:57	1	1AC21008.D	DB-5MS 250 (um)
ZZZZZ		03/21/2013 17:12	1		DB-5MS 250 (um)
MB 660-135608/1-A		03/21/2013 17:27	1	1AC21010.D	DB-5MS 250 (um)
ZZZZZ		03/21/2013 17:42	1		DB-5MS 250 (um)
ZZZZZ		03/21/2013 17:57	1		DB-5MS 250 (um)
680-88348-A-21-B MS		03/21/2013 18:12	1	1AC21013.D	DB-5MS 250 (um)
680-88348-A-21-C MSD		03/21/2013 18:27	1	1AC21014.D	DB-5MS 250 (um)
ZZZZZ		03/21/2013 18:43	1		DB-5MS 250 (um)
ZZZZZ		03/21/2013 18:58	1		DB-5MS 250 (um)
ZZZZZ		03/21/2013 19:13	1		DB-5MS 250 (um)
ZZZZZ		03/21/2013 19:28	1		DB-5MS 250 (um)
ZZZZZ		03/21/2013 19:44	1		DB-5MS 250 (um)
ZZZZZ		03/21/2013 19:59	1		DB-5MS 250 (um)
680-88420-1	CV0200A-CS-SP	03/21/2013 20:14	4	1AC21021.D	DB-5MS 250 (um)
680-88420-2	CV0200B-CS-SP	03/21/2013 20:29	1	1AC21022.D	DB-5MS 250 (um)
680-88420-3	FM0347A-CS	03/21/2013 20:44	4	1AC21023.D	DB-5MS 250 (um)
680-88420-4	HP0035A-CS	03/21/2013 20:59	1	1AC21024.D	DB-5MS 250 (um)
680-88420-5	HP0035A-CSD	03/21/2013 21:14	1	1AC21025.D	DB-5MS 250 (um)
680-88420-6	CV0951A-CS	03/21/2013 21:29	4	1AC21026.D	DB-5MS 250 (um)
680-88420-7	CV0618A-CS	03/21/2013 21:45	1	1AC21027.D	DB-5MS 250 (um)
680-88420-8	CV0843A-CS-SP	03/21/2013 22:00	1	1AC21028.D	DB-5MS 250 (um)
680-88420-9	CV0843B-CS-SP	03/21/2013 22:15	4	1AC21029.D	DB-5MS 250 (um)
680-88420-10	CV0826A-CS-SP	03/21/2013 22:30	1	1AC21030.D	DB-5MS 250 (um)
680-88420-11	CV0826B-CS-SP	03/21/2013 22:45	1	1AC21031.D	DB-5MS 250 (um)
680-88420-13	CV1151B-CS-SP	03/21/2013 23:00	1	1AC21032.D	DB-5MS 250 (um)
680-88420-14	CV0137A-CS	03/21/2013 23:15	1	1AC21033.D	DB-5MS 250 (um)
ZZZZZ		03/21/2013 23:31	1		DB-5MS 250 (um)
ZZZZZ		03/21/2013 23:46	1		DB-5MS 250 (um)
ZZZZZ		03/22/2013 00:01	1		DB-5MS 250 (um)
ZZZZZ		03/22/2013 00:16	4		DB-5MS 250 (um)
ZZZZZ		03/22/2013 00:31	1		DB-5MS 250 (um)
ZZZZZ		03/22/2013 00:47	4		DB-5MS 250 (um)
ZZZZZ		03/22/2013 01:01	1		DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88420-1SDG No.: 68088420-1Instrument ID: BSMA5973Start Date: 03/26/2013 10:45Analysis Batch Number: 135850End Date: 03/26/2013 21:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/26/2013 10:45	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 11:00	1		DB-5MS 250 (um)
DFTPP 660-135850/2		03/26/2013 11:15	1	1AC26002.D	DB-5MS 250 (um)
CCVIS 660-135850/3		03/26/2013 11:28	1	1AC26003.D	DB-5MS 250 (um)
ZZZZZ		03/26/2013 11:44	1		DB-5MS 250 (um)
MB 660-135631/1-A		03/26/2013 11:59	1	1AC26005.D	DB-5MS 250 (um)
LCS 660-135631/2-A		03/26/2013 12:15	1	1AC26006.D	DB-5MS 250 (um)
680-88420-12	CV1151A-CS-SP	03/26/2013 12:30	1	1AC26007.D	DB-5MS 250 (um)
680-88420-12 MSD	CV1151A-CS-SP MSD	03/26/2013 13:08	1	1AC26009.D	DB-5MS 250 (um)
680-88420-15	FM0004A-CS	03/26/2013 13:23	1	1AC26010.D	DB-5MS 250 (um)
680-88420-16	FM0004A-CSD	03/26/2013 13:39	1	1AC26011.D	DB-5MS 250 (um)
680-88420-18	FM0004C-CS	03/26/2013 15:15	1	1AC26013.D	DB-5MS 250 (um)
680-88420-19	CV1035A-CS	03/26/2013 15:30	1	1AC26014.D	DB-5MS 250 (um)
ZZZZZ		03/26/2013 15:45	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 16:38	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 16:53	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 17:08	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 17:23	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 17:38	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 17:54	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 18:09	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 18:24	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 18:39	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 18:54	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 19:09	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 19:24	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 19:39	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 19:54	4		DB-5MS 250 (um)
ZZZZZ		03/26/2013 20:09	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 20:24	4		DB-5MS 250 (um)
ZZZZZ		03/26/2013 20:40	4		DB-5MS 250 (um)
ZZZZZ		03/26/2013 20:54	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 21:10	1		DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88420-1SDG No.: 68088420-1Instrument 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 Tampa Job No.: 680-88420-1SDG No.: 68088420-1Instrument ID: BSMC5973 Start Date: 03/27/2013 09:41Analysis Batch Number: 135830 End 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)
ZZZZZ		03/27/2013 11:26	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 11:44	1		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)
ZZZZZ		03/27/2013 12:39	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 12:57	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 16:18	1		DB-5MS 250 (um)
680-88420-12 MS	CV1151A-CS-SP MS	03/27/2013 19:03	1	1CC27030.D	DB-5MS 250 (um)
680-88420-17	FM0004B-CS	03/27/2013 19:21	1	1CC27031.D	DB-5MS 250 (um)
680-88420-20	CV1035B-CS	03/27/2013 19:39	4	1CC27032.D	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 TampaJob No.: 680-88420-1SDG No.: 68088420-1Instrument ID: BSMD5973Start Date: 02/22/2013 11:10Analysis Batch Number: 134781End 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.: 680-88420-1SDG No.: 68088420-1Instrument ID: BSMD5973Start Date: 03/26/2013 09:28Analysis Batch Number: 135792End Date: 03/26/2013 22:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/26/2013 09:28	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 09:51	1		DB-5MS 250 (um)
DFTPP 660-135792/2		03/26/2013 10:15	1	1DC26002.D	DB-5MS 250 (um)
CCVIS 660-135792/3		03/26/2013 10:32	1	1DC26003.D	DB-5MS 250 (um)
ZZZZZ		03/26/2013 10:55	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 11:17	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 11:40	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 12:02	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 12:25	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 12:47	4		DB-5MS 250 (um)
LCS 660-135608/2-A		03/26/2013 13:10	1	1DC26010.D	DB-5MS 250 (um)
ZZZZZ		03/26/2013 13:32	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 13:55	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 15:31	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 15:54	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 16:16	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 16:39	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 17:01	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 17:24	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 17:47	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 18:09	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 18:31	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 18:54	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 19:16	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 19:39	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 20:01	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 20:24	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 20:47	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 21:09	4		DB-5MS 250 (um)
ZZZZZ		03/26/2013 21:32	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 21:54	4		DB-5MS 250 (um)
ZZZZZ		03/26/2013 22:17	1		DB-5MS 250 (um)

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1SDG No.: 68088420-1Batch Number: 135608 Batch Start Date: 03/21/13 08:38 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 03/21/13 16:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00177		
MB 660-135608/1		3546, 8270C LL		14.95 g	1 mL		1 mL		
LCS 660-135608/2		3546, 8270C LL		15.50 g	1 mL	1 mL	1 mL		
680-88348-A-21 MS		3546, 8270C LL	T	15.35 g	1 mL	1 mL	1 mL		
680-88348-A-21 MSD		3546, 8270C LL	T	15.02 g	1 mL	1 mL	1 mL		
680-88420-A-1	CV0200A-CS-SP	3546, 8270C LL	T	15.02 g	1 mL		1 mL		
680-88420-A-2	CV0200B-CS-SP	3546, 8270C LL	T	15.18 g	1 mL		1 mL		
680-88420-A-3	FM0347A-CS	3546, 8270C LL	T	15.06 g	1 mL		1 mL		
680-88420-A-4	HP0035A-CS	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-88420-A-5	HP0035A-CSD	3546, 8270C LL	T	14.90 g	1 mL		1 mL		
680-88420-A-6	CV0951A-CS	3546, 8270C LL	T	14.92 g	1 mL		1 mL		
680-88420-A-7	CV0618A-CS	3546, 8270C LL	T	15.49 g	1 mL		1 mL		
680-88420-A-8	CV0843A-CS-SP	3546, 8270C LL	T	14394 g	1 mL		1 mL		
680-88420-A-9	CV0843B-CS-SP	3546, 8270C LL	T	15.02 g	1 mL		1 mL		
680-88420-A-10	CV0826A-CS-SP	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-88420-A-11	CV0826B-CS-SP	3546, 8270C LL	T	14.96 g	1 mL		1 mL		
680-88420-A-13	CV1151B-CS-SP	3546, 8270C LL	T	15.33 g	1 mL		1 mL		
680-88420-A-14	CV0137A-CS	3546, 8270C LL	T	14.90 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

Page 1 of 2

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1SDG No.: 68088420-1Batch Number: 135608 Batch Start Date: 03/21/13 08:38 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 03/21/13 16:00

Batch Notes	
Acetone Lot #	EX-ACETON BOT_49
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL_54
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL_54
MeCl2/Acetone Lot #	DCM/ACETON 47
Microwave Start Time	11:00 3/21/13
Microwave Stop Time	11:35 3/21/13
Na2SO4 Lot Number	EX-NA2S04A_64
Ottawa Sand Lot #	EX-OTTOWA SAND 13
Person's name who did the prep	SAUREL
SOP Number	TP-EX-014
Person who witnessed spiking	RYAN
Surrogate Lot Number	EXLLSURINT_177
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.: 680-88420-1SDG No.: 68088420-1Batch Number: 135631 Batch Start Date: 03/21/13 11:14 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 03/21/13 17:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00177		
MB 660-135631/1		3546, 8270C LL		15.40 g	1 mL		1 mL		
LCS 660-135631/2		3546, 8270C LL		15.31 g	1 mL	1 mL	1 mL		
680-88420-A-12	CV1151A-CS-SP	3546, 8270C LL	T	15.18 g	1 mL		1 mL		
680-88420-A-12 MS	CV1151A-CS-SP	3546, 8270C LL	T	15.21 g	1 mL	1 mL	1 mL		
680-88420-A-12 MSD	CV1151A-CS-SP	3546, 8270C LL	T	15.10 g	1 mL	1 mL	1 mL		
680-88420-A-15	FM0004A-CS	3546, 8270C LL	T	15.10 g	1 mL		1 mL		
680-88420-A-16	FM0004A-CSD	3546, 8270C LL	T	15.48 g	1 mL		1 mL		
680-88420-A-17	FM0004B-CS	3546, 8270C LL	T	15.01 g	1 mL		1 mL		
680-88420-A-18	FM0004C-CS	3546, 8270C LL	T	15.49 g	1 mL		1 mL		
680-88420-A-19	CV1035A-CS	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-88420-A-20	CV1035B-CS	3546, 8270C LL	T	14.90 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

Page 1 of 2

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1SDG No.: 68088420-1Batch Number: 135631 Batch Start Date: 03/21/13 11:14 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 03/21/13 17:00

Batch Notes	
Acetone Lot #	EX-ACETON BOT_49
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-M CYCL 54
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL_54
MeCl2/Acetone Lot #	DCM/ACETON 48
Microwave Start Time	13:05 3/21/13
Microwave Stop Time	13:40 3/21/13
Na2SO4 Lot Number	EX-NA2S04A_64
Ottawa Sand Lot #	EX-OTTOWA SAND 13
Person's name who did the prep	SAUREL
SOP Number	TP-EX014
Person who witnessed spiking	RN
Surrogate Lot Number	EXLLSURINT_177
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.

# **GENERAL CHEMISTRY**

COVER PAGE  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa

Job Number: 680-88420-1

SDG No.: 68088420-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
<u>CV0200A-CS-SP</u>	<u>680-88420-1</u>
<u>CV0200B-CS-SP</u>	<u>680-88420-2</u>
<u>FM0347A-CS</u>	<u>680-88420-3</u>
<u>HP0035A-CS</u>	<u>680-88420-4</u>
<u>HP0035A-CSD</u>	<u>680-88420-5</u>
<u>CV0951A-CS</u>	<u>680-88420-6</u>
<u>CV0618A-CS</u>	<u>680-88420-7</u>
<u>CV0843A-CS-SP</u>	<u>680-88420-8</u>
<u>CV0843B-CS-SP</u>	<u>680-88420-9</u>
<u>CV0826A-CS-SP</u>	<u>680-88420-10</u>
<u>CV0826B-CS-SP</u>	<u>680-88420-11</u>
<u>CV1151A-CS-SP</u>	<u>680-88420-12</u>
<u>CV1151B-CS-SP</u>	<u>680-88420-13</u>
<u>CV0137A-CS</u>	<u>680-88420-14</u>
<u>FM0004A-CS</u>	<u>680-88420-15</u>
<u>FM0004A-CSD</u>	<u>680-88420-16</u>
<u>FM0004B-CS</u>	<u>680-88420-17</u>
<u>FM0004C-CS</u>	<u>680-88420-18</u>
<u>CV1035A-CS</u>	<u>680-88420-19</u>
<u>CV1035B-CS</u>	<u>680-88420-20</u>

Comments:

9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88420-1  
SDG Number: 68088420-1  
Matrix: Solid Instrument ID: Moisture  
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: 680-88420-1  
SDG Number: 68088420-1  
Matrix: Solid Instrument ID: Moisture  
Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa

Job Number: 680-88420-1

SDG Number: 68088420-1

Matrix: Solid

Instrument ID: NOEQUIP

Method: Moisture

RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88420-1  
SDG Number: 68088420-1  
Matrix: Solid Instrument ID: NOEQUIP  
Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	





13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88420-1

SDG No.: 68088420-1

Instrument ID: Moisture Method: Moisture

Start Date: 03/21/2013 08:44 End Date: 03/21/2013 12:25

Lab Sample ID	D / F	T y p e	Time	Analytes															
				M o i s t															
LCSD 660-135642/12	1	T	08:44	X															
LCS 660-135642/1	1	T	08:46	X															
680-88420-16	1	T	09:04	X															
680-88420-15	1	T	09:04	X															
ZZZZZZ			09:36																
ZZZZZZ			10:00																
ZZZZZZ			10:07																
680-88420-17	1	T	10:15	X															
ZZZZZZ			11:56																
680-88420-14	1	T	12:00	X															
680-88420-A-26 MS	1	T	12:24	X															
680-88420-A-26 MSD	1	T	12:25	X															

Prep Types  
T = Total/NA

13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88420-1

SDG No.: 68088420-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 03/22/2013 06:22 End Date: 03/22/2013 06:22

Lab Sample ID	D / F	T y p e	Time	Analytes															
				M o i s t															
MB 660-135659/1	1	T	06:22	X															
680-88420-19	1	T	06:22	X															
ZZZZZZ			06:22																
ZZZZZZ			06:22																
ZZZZZZ			06:22																
ZZZZZZ			06:22																
ZZZZZZ			06:22																
ZZZZZZ			06:22																
680-88420-20	1	T	06:22	X															
ZZZZZZ			06:22																
ZZZZZZ			06:22																
ZZZZZZ			06:22																
ZZZZZZ			06:22																
ZZZZZZ			06:22																
ZZZZZZ			06:22																
680-88420-18	1	T	06:22	X															
ZZZZZZ			06:22																
ZZZZZZ			06:22																
ZZZZZZ			06:22																
ZZZZZZ			06:22																
ZZZZZZ			06:22																
ZZZZZZ			06:22																
ZZZZZZ			06:22																
ZZZZZZ			06:22																

Prep Types  
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1

SDG No.: 68088420-1

Batch Number: 135589 Batch Start Date: 03/20/13 07:42 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-135589/1		Moisture		0 g	10.033 g	9.008 g			
680-88420-A-2	CV0200B-CS-SP	Moisture	T	0 g	4.54 g	3.322 g			
680-88420-A-4	HP0035A-CS	Moisture	T	0 g	4.509 g	3.255 g			
680-88420-A-5	HP0035A-CSD	Moisture	T	0 g	4.314 g	3.257 g			
680-88420-A-3	FM0347A-CS	Moisture	T	0 g	4.382 g	3.724 g			
680-88420-A-1	CV0200A-CS-SP	Moisture	T	0 g	4.3 g	3.19 g			
LCSD 660-135589/22		Moisture		0 g	10.023 g	9.016 g			

Batch Notes	
Oven ID	HB43-1, HB43-2

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



GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1

SDG No.: 68088420-1

Batch Number: 135607 Batch Start Date: 03/21/13 05:20 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-135607/1		Moisture		0 g	10.023 g	9.016 g			
680-88420-A-6	CV0951A-CS	Moisture	T	0 g	4.744 g	3.223 g			
680-88420-A-10	CV0826A-CS-SP	Moisture	T	0 g	4.32 g	3.436 g			
680-88420-A-12	CV1151A-CS-SP	Moisture	T	0 g	4.02 g	3.135 g			
680-88420-A-12	CV1151A-CS-SP	Moisture	T	0 g	4.384 g	3.401 g			
MSD									
680-88420-A-13	CV1151B-CS-SP	Moisture	T	0 g	4.348 g	3.513 g			
680-88420-A-12	CV1151A-CS-SP	Moisture	T	0 g	4.446 g	3.477 g			
MS									
680-88420-A-11	CV0826B-CS-SP	Moisture	T	0 g	4.507 g	3.44 g			
680-88420-A-9	CV0843B-CS-SP	Moisture	T	0 g	4.143 g	3.094 g			
680-88420-A-8	CV0843A-CS-SP	Moisture	T	0 g	4.447 g	3.759 g			
680-88420-A-7	CV0618A-CS	Moisture	T	0 g	4.177 g	2.88 g			
LCSD									
660-135607/13		Moisture		0 g	10.047 g	9.027 g			

Batch Notes	
Oven ID	HB43-1, HB43-2

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1

SDG No.: 68088420-1

Batch Number: 135642 Batch Start Date: 03/21/13 08:44 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-135642/1		Moisture		0 g	10.055 g	9.007 g			
680-88420-A-15	FM0004A-CS	Moisture	T	0 g	4.147 g	3.288 g			
680-88420-A-14	CV0137A-CS	Moisture	T	0 g	4.439 g	3.49 g			
680-88420-A-26 MS		Moisture	T	0 g	4.309 g	3.489 g			
680-88420-A-26 MSD		Moisture	T	0 g	4.815 g	4.001 g			
680-88420-A-17	FM0004B-CS	Moisture	T	0 g	4.338 g	3.523 g			
680-88420-A-16	FM0004A-CSD	Moisture	T	0 g	4.354 g	3.413 g			
LCSD 660-135642/12		Moisture		0 g	10.038 g	9.034 g			

Batch Notes	
Oven ID	HB43-1, HB43-2

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88420-1

SDG No.: 68088420-1

Batch Number: 135659 Batch Start Date: 03/22/13 06:22 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
MB 660-135659/1		Moisture		mb	0 g	9.26 g	9.25 g		
680-88420-A-19	CV1035A-CS	Moisture	T	1	0 g	4.64 g	4.08 g		
680-88420-A-20	CV1035B-CS	Moisture	T	8	0 g	4.37 g	3.56 g		
680-88420-A-18	FM0004C-CS	Moisture	T	16	0 g	4.79 g	3.50 g		

Batch Notes	

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 <b>35TH AVE REMOVAL</b>	PROJECT NO. <b>2005148-1356</b>	PROJECT LOCATION (STATE) <b>AL</b>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <b>1</b>	OF <b>4</b>
TAL (LAB) PROJECT MANAGER <b>LISA HARVEY</b>	P.O. NUMBER	CONTRACT NO.			STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____

(b) (6)  
(b) (6)  
**(b) (6)**

COMPLAINANT CONT#	COMPOSITE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	PCRA-8 METALS	PRESERVATIVE	STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE _____	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:
-------------------	-----------	-----------------	--------------------	-----	---------------------------------------	--------	---------------	--------------	--	----------------	---	----------------	---

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED				REMARKS
DATE	TIME												
3-14-13	0901	CV0200A-CS-SP	C	X			X						
	0916	CV0200B-CS-SP	C	X			X						
	0840	FM0347A-CS	C	X			X						
	0945	HP0035A-CS	C	X			X						
	0945	HP0035A-CSD	C	X			X						
	1010	CV0951A-CS	C	X			X						
	1045	CV0618A-CS	C	X			X						
	1003	CV0843A-CS-SP	C	X			X						
	1011	CV0843B-CS-SP	C	X			X						
	1040	CV0826A-CS-SP	C	X			X						
	1051	CV0826B-CS-SP	C	X			X						
	1119	CV1151A-CS-SP	C	X			X	X					

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <b>3-15-13</b>	TIME <b>1000</b>	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 <b>3/16/13</b>	TIME <b>0920</b>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <b>680-88420</b>	LABORATORY REMARKS <b>3.4°C</b>

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 <b>35TH AVE REMOVAL</b>	PROJECT NO. <b>2005148-1356</b>	PROJECT LOCATION (STATE) <b>AL</b>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <b>2</b> OF <b>4</b>
--	------------------------------------	---------------------------------------	-------------	-------------------	---------------------------

TAL (LAB) PROJECT MANAGER <b>LISA HARVEY</b>	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY <input type="checkbox"/>	DATE DUE _____
---	-------------	--------------	---	----------------

**(b) (6)**

COMPOSITE (✓) OR UNIFORM (✓) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH 77	PRESERVATIVE	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="checkbox"/>	DATE DUE _____
							NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (✓) OR UNIFORM (✓) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED				REMARKS
DATE	TIME											
3-14-13	1127	CV1151B-CS-SP	C	X			X					
	1220	CV0137A-CS	C	X			X					
	1250	FM0004A-CS	C	X			X					
	1250	FM0004A-CSD	C	X			X					
	1300	FM0004B-CS	C	X			X					
	1310	FM0004C-CS	C	✓			X					
	1405	CV1035A-CS	C	X			X					
	1415	CV1035B-CS	C	X			X					
	1430	CV1037A-CS	C	X			X					
	1440	CV1037B-CS	C	X			X					
	1238	CV0353A-CS-SP	C	X			X					
	1250	CV0353B-CS-SP	C	X			X					

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <b>3-15-13</b>	TIME <b>1000</b>	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 <b>3/16/13</b>	TIME <b>0920</b>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <b>680-88420</b>	LABORATORY REMARKS <b>3.4°C</b>

## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88420-1

SDG Number: 68088420-1

Login Number: 88420

List Source: TestAmerica Savannah

List Number: 1

Creator: Conner, Keaton

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
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.	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").	True	
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: 680-88420-1

SDG Number: 68088420-1

**Login Number: 88420**  
**List Number: 1**  
**Creator: Edwards, Erricka**

**List Source: TestAmerica Tampa**  
**List Creation: 03/20/13 08:50 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 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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404  
Tel: (912)354-7858

TestAmerica Job ID: 680-88420-1

TestAmerica Sample Delivery Group: 68088420-1  
Client Project/Site: 35th Avenue Superfund Site

For:

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

Attn: Ms. Limari F Krebs



Authorized for release by:  
3/28/2013 4:43:52 PM

Bernard Kirkland  
Project Manager I  
[bernard.kirkland@testamericainc.com](mailto:bernard.kirkland@testamericainc.com)

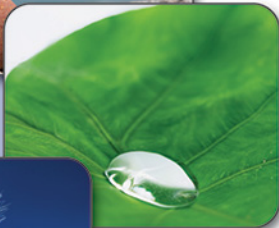
Designee for

Lisa Harvey  
Project Manager II  
[lisa.harvey@testamericainc.com](mailto:lisa.harvey@testamericainc.com)

*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.*

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*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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1

2

3

4

5

6

7

8

9

10

11

12

## Case Narrative

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

TestAmerica Job ID: 680-88420-1  
SDG: 68088420-1

**Job ID: 680-88420-1**

**Laboratory: TestAmerica Savannah**

Narrative

### CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-88420-1**

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

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

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

#### RECEIPT

The samples were received on 03/16/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.4 C.

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

Samples CV0200A-CS-SP (680-88420-1), CV0200B-CS-SP (680-88420-2), FM0347A-CS (680-88420-3), HP0035A-CS (680-88420-4), HP0035A-CSD (680-88420-5), CV0951A-CS (680-88420-6), CV0618A-CS (680-88420-7), CV0843A-CS-SP (680-88420-8), CV0843B-CS-SP (680-88420-9), CV0826A-CS-SP (680-88420-10), CV0826B-CS-SP (680-88420-11), CV1151A-CS-SP (680-88420-12), CV1151B-CS-SP (680-88420-13), CV0137A-CS (680-88420-14), FM0004A-CS (680-88420-15), FM0004A-CSD (680-88420-16), FM0004B-CS (680-88420-17), FM0004C-CS (680-88420-18), CV1035A-CS (680-88420-19) and CV1035B-CS (680-88420-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/21/2013 and analyzed on 03/21/2013, 03/26/2013 and 03/27/2013.

Samples CV0200A-CS-SP (680-88420-1)[4X], FM0347A-CS (680-88420-3)[4X], CV0951A-CS (680-88420-6)[4X], CV0843B-CS-SP (680-88420-9)[4X] and CV1035B-CS (680-88420-20)[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 CV1151A-CS-SP (680-88420-12) in batch 660-135830.

Several also exceeded the rpd limit for the MS/MSD in batch 660-135850.

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: 680-88420-1  
SDG: 68088420-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88420-1	CV0200A-CS-SP	Solid	03/14/13 09:01	03/16/13 09:20
680-88420-2	CV0200B-CS-SP	Solid	03/14/13 09:16	03/16/13 09:20
680-88420-3	FM0347A-CS	Solid	03/14/13 08:40	03/16/13 09:20
680-88420-4	HP0035A-CS	Solid	03/14/13 09:45	03/16/13 09:20
680-88420-5	HP0035A-CSD	Solid	03/14/13 09:45	03/16/13 09:20
680-88420-6	CV0951A-CS	Solid	03/14/13 10:10	03/16/13 09:20
680-88420-7	CV0618A-CS	Solid	03/14/13 10:45	03/16/13 09:20
680-88420-8	CV0843A-CS-SP	Solid	03/14/13 10:03	03/16/13 09:20
680-88420-9	CV0843B-CS-SP	Solid	03/14/13 10:11	03/16/13 09:20
680-88420-10	CV0826A-CS-SP	Solid	03/14/13 10:40	03/16/13 09:20
680-88420-11	CV0826B-CS-SP	Solid	03/14/13 10:51	03/16/13 09:20
680-88420-12	CV1151A-CS-SP	Solid	03/14/13 11:19	03/16/13 09:20
680-88420-13	CV1151B-CS-SP	Solid	03/14/13 11:27	03/16/13 09:20
680-88420-14	CV0137A-CS	Solid	03/14/13 12:20	03/16/13 09:20
680-88420-15	FM0004A-CS	Solid	03/14/13 12:50	03/16/13 09:20
680-88420-16	FM0004A-CSD	Solid	03/14/13 12:50	03/16/13 09:20
680-88420-17	FM0004B-CS	Solid	03/14/13 13:00	03/16/13 09:20
680-88420-18	FM0004C-CS	Solid	03/14/13 13:10	03/16/13 09:20
680-88420-19	CV1035A-CS	Solid	03/14/13 14:05	03/16/13 09:20
680-88420-20	CV1035B-CS	Solid	03/14/13 14:15	03/16/13 09:20

# Method Summary

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

TestAmerica Job ID: 680-88420-1  
SDG: 68088420-1

Method	Method Description	Protocol	Laboratory
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL TAM
Moisture	Percent Moisture	EPA	TAL TAM

**Protocol References:**

EPA = US Environmental Protection Agency

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

**Laboratory References:**

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

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## Definitions/Glossary

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

TestAmerica Job ID: 680-88420-1  
SDG: 68088420-1

### Qualifiers

#### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
F	RPD of the MS and MSD exceeds the control limits
F	MS or MSD exceeds the control limits

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

**Client Sample ID: CV0200A-CS-SP**

**Lab Sample ID: 680-88420-1**

Date Collected: 03/14/13 09:01

Matrix: Solid

Date Received: 03/16/13 09:20

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	540	U	540	110	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
Acenaphthylene	220	U	220	27	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
Anthracene	45	U	45	23	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>Benzo[a]anthracene</b>	<b>200</b>		43	21	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>Benzo[a]pyrene</b>	<b>130</b>		56	28	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>Benzo[b]fluoranthene</b>	<b>600</b>		66	33	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>Benzo[g,h,i]perylene</b>	<b>130</b>		110	24	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>Benzo[k]fluoranthene</b>	<b>120</b>		43	19	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>Chrysene</b>	<b>240</b>		48	24	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>Dibenz(a,h)anthracene</b>	<b>51</b>	J	110	22	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>Fluoranthene</b>	<b>180</b>		110	22	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
Fluorene	110	U	110	22	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>110</b>		110	38	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>1-Methylnaphthalene</b>	<b>48</b>	J	220	24	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>2-Methylnaphthalene</b>	<b>390</b>		220	38	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>Naphthalene</b>	<b>58</b>	J	220	24	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>Phenanthrene</b>	<b>120</b>		43	21	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4
<b>Pyrene</b>	<b>190</b>		110	20	ug/Kg	☼	03/21/13 08:38	03/21/13 20:14	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	54		30 - 130	03/21/13 08:38	03/21/13 20:14	4

**Client Sample ID: CV0200B-CS-SP**

**Lab Sample ID: 680-88420-2**

Date Collected: 03/14/13 09:16

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 73.2

**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	☼	03/21/13 08:38	03/21/13 20:29	1
Acenaphthylene	54	U	54	6.8	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>Anthracene</b>	<b>25</b>		11	5.7	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>Benzo[a]anthracene</b>	<b>100</b>		11	5.3	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>Benzo[a]pyrene</b>	<b>56</b>		14	7.0	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>Benzo[b]fluoranthene</b>	<b>220</b>		16	8.2	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>Benzo[g,h,i]perylene</b>	<b>71</b>		27	5.9	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>Benzo[k]fluoranthene</b>	<b>31</b>		11	4.9	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>Chrysene</b>	<b>140</b>		12	6.1	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>Dibenz(a,h)anthracene</b>	<b>29</b>		27	5.5	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>Fluoranthene</b>	<b>110</b>		27	5.4	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
Fluorene	27	U	27	5.5	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>61</b>		27	9.6	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>1-Methylnaphthalene</b>	<b>42</b>	J	54	5.9	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>2-Methylnaphthalene</b>	<b>140</b>		54	9.6	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>Naphthalene</b>	<b>53</b>	J	54	5.9	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>Phenanthrene</b>	<b>120</b>		11	5.3	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1
<b>Pyrene</b>	<b>110</b>		27	5.0	ug/Kg	☼	03/21/13 08:38	03/21/13 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	44		30 - 130	03/21/13 08:38	03/21/13 20:29	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

**Client Sample ID: FM0347A-CS**

**Lab Sample ID: 680-88420-3**

Date Collected: 03/14/13 08:40

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	470	U	470	94	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
Acenaphthylene	190	U	190	23	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>Anthracene</b>	<b>55</b>		39	20	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>Benzo[a]anthracene</b>	<b>460</b>		38	18	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>Benzo[a]pyrene</b>	<b>370</b>		49	24	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>Benzo[b]fluoranthene</b>	<b>960</b>		57	29	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>Benzo[g,h,i]perylene</b>	<b>570</b>		94	21	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>Benzo[k]fluoranthene</b>	<b>210</b>		38	17	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>Chrysene</b>	<b>420</b>		42	21	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>Dibenz(a,h)anthracene</b>	<b>170</b>		94	19	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>Fluoranthene</b>	<b>490</b>		94	19	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
Fluorene	94	U	94	19	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>390</b>		94	33	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>1-Methylnaphthalene</b>	<b>41</b>	J	190	21	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>2-Methylnaphthalene</b>	<b>340</b>		190	33	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>Naphthalene</b>	<b>72</b>	J	190	21	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>Phenanthrene</b>	<b>230</b>		38	18	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	4
<b>Pyrene</b>	<b>470</b>		94	17	ug/Kg	☼	03/21/13 08:38	03/21/13 20:44	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	48		30 - 130				03/21/13 08:38	03/21/13 20:44	4

**Client Sample ID: HP0035A-CS**

**Lab Sample ID: 680-88420-4**

Date Collected: 03/14/13 09:45

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 72.2

**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	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Acenaphthylene</b>	<b>27</b>	J	55	6.9	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Anthracene</b>	<b>23</b>		12	5.8	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Benzo[a]anthracene</b>	<b>88</b>		11	5.4	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Benzo[a]pyrene</b>	<b>37</b>		14	7.2	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Benzo[b]fluoranthene</b>	<b>170</b>		17	8.4	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Benzo[g,h,i]perylene</b>	<b>39</b>		28	6.1	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Benzo[k]fluoranthene</b>	<b>18</b>		11	5.0	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Chrysene</b>	<b>81</b>		12	6.2	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Dibenz(a,h)anthracene</b>	<b>17</b>	J	28	5.7	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Fluoranthene</b>	<b>73</b>		28	5.5	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
Fluorene	28	U	28	5.7	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>32</b>		28	9.8	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>1-Methylnaphthalene</b>	<b>25</b>	J	55	6.1	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>2-Methylnaphthalene</b>	<b>120</b>		55	9.8	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Naphthalene</b>	<b>69</b>		55	6.1	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Phenanthrene</b>	<b>82</b>		11	5.4	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	1
<b>Pyrene</b>	<b>84</b>		28	5.1	ug/Kg	☼	03/21/13 08:38	03/21/13 20:59	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	64		30 - 130				03/21/13 08:38	03/21/13 20:59	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

**Client Sample ID: HP0035A-CSD**

**Lab Sample ID: 680-88420-5**

Date Collected: 03/14/13 09:45

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 75.5

**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	☼	03/21/13 08:38	03/21/13 21:14	1
Acenaphthylene	53	U	53	6.7	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Anthracene</b>	<b>16</b>		11	5.6	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Benzo[a]anthracene</b>	<b>47</b>		11	5.2	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Benzo[a]pyrene</b>	<b>24</b>		14	6.9	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Benzo[b]fluoranthene</b>	<b>150</b>		16	8.1	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Benzo[g,h,i]perylene</b>	<b>25</b>	J	27	5.9	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Benzo[k]fluoranthene</b>	<b>12</b>		11	4.8	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Chrysene</b>	<b>87</b>		12	6.0	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Dibenz(a,h)anthracene</b>	<b>14</b>	J	27	5.5	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Fluoranthene</b>	<b>60</b>		27	5.3	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
Fluorene	27	U	27	5.5	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>23</b>	J	27	9.5	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>1-Methylnaphthalene</b>	<b>23</b>	J	53	5.9	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>2-Methylnaphthalene</b>	<b>110</b>		53	9.5	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Naphthalene</b>	<b>66</b>		53	5.9	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Phenanthrene</b>	<b>70</b>		11	5.2	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Pyrene</b>	<b>47</b>		27	4.9	ug/Kg	☼	03/21/13 08:38	03/21/13 21:14	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	55		30 - 130				03/21/13 08:38	03/21/13 21:14	1

**Client Sample ID: CV0951A-CS**

**Lab Sample ID: 680-88420-6**

Date Collected: 03/14/13 10:10

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 67.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	590	U	590	120	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
Acenaphthylene	240	U	240	30	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Anthracene</b>	<b>81</b>		50	25	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Benzo[a]anthracene</b>	<b>240</b>		47	23	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Benzo[a]pyrene</b>	<b>110</b>		62	31	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Benzo[b]fluoranthene</b>	<b>620</b>		72	36	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Benzo[g,h,i]perylene</b>	<b>130</b>		120	26	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Benzo[k]fluoranthene</b>	<b>120</b>		47	21	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Chrysene</b>	<b>270</b>		53	27	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Dibenz(a,h)anthracene</b>	<b>43</b>	J	120	24	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Fluoranthene</b>	<b>190</b>		120	24	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
Fluorene	120	U	120	24	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>88</b>	J	120	42	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>1-Methylnaphthalene</b>	<b>93</b>	J	240	26	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>2-Methylnaphthalene</b>	<b>450</b>		240	42	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Naphthalene</b>	<b>130</b>	J	240	26	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Phenanthrene</b>	<b>140</b>		47	23	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Pyrene</b>	<b>230</b>		120	22	ug/Kg	☼	03/21/13 08:38	03/21/13 21:29	4
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	51		30 - 130				03/21/13 08:38	03/21/13 21:29	4

TestAmerica Savannah



# Client Sample Results

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

**Client Sample ID: CV0618A-CS**

**Lab Sample ID: 680-88420-7**

Date Collected: 03/14/13 10:45

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 68.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	53	J	140	28	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Acenaphthylene	66		56	7.0	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Anthracene	77		12	5.9	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Benzo[a]anthracene	300		11	5.5	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Benzo[a]pyrene	190		15	7.3	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Benzo[b]fluoranthene	420		17	8.6	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Benzo[g,h,i]perylene	170		28	6.2	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Benzo[k]fluoranthene	110		11	5.1	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Chrysene	380		13	6.3	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Dibenz(a,h)anthracene	65		28	5.8	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Fluoranthene	380		28	5.6	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Fluorene	46		28	5.8	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Indeno[1,2,3-cd]pyrene	150		28	10	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
1-Methylnaphthalene	460		56	6.2	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
2-Methylnaphthalene	580		56	10	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Naphthalene	380		56	6.2	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Phenanthrene	420		11	5.5	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
Pyrene	330		28	5.2	ug/Kg	☼	03/21/13 08:38	03/21/13 21:45	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	42		30 - 130				03/21/13 08:38	03/21/13 21:45	1

**Client Sample ID: CV0843A-CS-SP**

**Lab Sample ID: 680-88420-8**

Date Collected: 03/14/13 10:03

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.050	J	0.12	0.025	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Acenaphthylene	0.028	J	0.049	0.0062	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Anthracene	0.056		0.010	0.0052	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Benzo[a]anthracene	0.58		0.0099	0.0048	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Benzo[a]pyrene	0.58		0.013	0.0064	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Benzo[b]fluoranthene	1.0		0.015	0.0075	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Benzo[g,h,i]perylene	0.71		0.025	0.0054	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Benzo[k]fluoranthene	0.45		0.0099	0.0044	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Chrysene	0.73		0.011	0.0055	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Dibenz(a,h)anthracene	0.28		0.025	0.0051	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Fluoranthene	0.51		0.025	0.0049	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Fluorene	0.035		0.025	0.0051	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Indeno[1,2,3-cd]pyrene	0.67		0.025	0.0088	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
1-Methylnaphthalene	0.031	J	0.049	0.0054	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
2-Methylnaphthalene	0.092		0.049	0.0088	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Naphthalene	0.034	J	0.049	0.0054	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Phenanthrene	0.23		0.0099	0.0048	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	1
Pyrene	0.55		0.025	0.0046	ug/Kg	☼	03/21/13 08:38	03/21/13 22:00	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	60		30 - 130				03/21/13 08:38	03/21/13 22:00	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

**Client Sample ID: CV0843B-CS-SP**

**Lab Sample ID: 680-88420-9**

Date Collected: 03/14/13 10:11

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 74.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
Acenaphthylene	210	U	210	27	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>Anthracene</b>	<b>120</b>		45	22	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>Benzo[a]anthracene</b>	<b>1500</b>		43	21	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>Benzo[a]pyrene</b>	<b>1500</b>		56	28	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>Benzo[b]fluoranthene</b>	<b>3000</b>		65	33	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>Benzo[g,h,i]perylene</b>	<b>1700</b>		110	24	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>Benzo[k]fluoranthene</b>	<b>770</b>		43	19	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>Chrysene</b>	<b>1800</b>		48	24	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>Dibenz(a,h)anthracene</b>	<b>570</b>		110	22	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>Fluoranthene</b>	<b>1500</b>		110	21	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
Fluorene	110	U	110	22	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>1500</b>		110	38	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>1-Methylnaphthalene</b>	<b>38</b>	J	210	24	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>2-Methylnaphthalene</b>	<b>370</b>		210	38	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>Naphthalene</b>	<b>88</b>	J	210	24	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>Phenanthrene</b>	<b>550</b>		43	21	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	4
<b>Pyrene</b>	<b>1500</b>		110	20	ug/Kg	☼	03/21/13 08:38	03/21/13 22:15	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	58		30 - 130				03/21/13 08:38	03/21/13 22:15	4

**Client Sample ID: CV0826A-CS-SP**

**Lab Sample ID: 680-88420-10**

Date Collected: 03/14/13 10:40

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Acenaphthylene</b>	<b>33</b>	J	50	6.3	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Anthracene</b>	<b>27</b>		11	5.3	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Benzo[a]anthracene</b>	<b>98</b>		10	4.9	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Benzo[a]pyrene</b>	<b>53</b>		13	6.5	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Benzo[b]fluoranthene</b>	<b>190</b>		15	7.6	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Benzo[g,h,i]perylene</b>	<b>60</b>		25	5.5	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Benzo[k]fluoranthene</b>	<b>23</b>		10	4.5	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Chrysene</b>	<b>150</b>		11	5.6	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Dibenz(a,h)anthracene</b>	<b>27</b>		25	5.1	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Fluoranthene</b>	<b>110</b>		25	5.0	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Fluorene</b>	<b>33</b>		25	5.1	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>36</b>		25	8.9	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>1-Methylnaphthalene</b>	<b>180</b>		50	5.5	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>2-Methylnaphthalene</b>	<b>190</b>		50	8.9	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Naphthalene</b>	<b>71</b>		50	5.5	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Phenanthrene</b>	<b>220</b>		10	4.9	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	1
<b>Pyrene</b>	<b>100</b>		25	4.6	ug/Kg	☼	03/21/13 08:38	03/21/13 22:30	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	53		30 - 130				03/21/13 08:38	03/21/13 22:30	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

**Client Sample ID: CV0826B-CS-SP**

**Lab Sample ID: 680-88420-11**

Date Collected: 03/14/13 10:51

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 76.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	57	J	130	26	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Acenaphthylene	85		53	6.6	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Anthracene	100		11	5.5	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Benzo[a]anthracene	220		11	5.1	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Benzo[a]pyrene	120		14	6.8	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Benzo[b]fluoranthene	300		16	8.0	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Benzo[g,h,i]perylene	150		26	5.8	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Benzo[k]fluoranthene	74		11	4.7	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Chrysene	300		12	5.9	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Dibenz(a,h)anthracene	57		26	5.4	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Fluoranthene	300		26	5.3	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Fluorene	37		26	5.4	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Indeno[1,2,3-cd]pyrene	100		26	9.3	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
1-Methylnaphthalene	110		53	5.8	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
2-Methylnaphthalene	180		53	9.3	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Naphthalene	94		53	5.8	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Phenanthrene	260		11	5.1	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	1
Pyrene	230		26	4.9	ug/Kg	☼	03/21/13 08:38	03/21/13 22:45	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	48		30 - 130				03/21/13 08:38	03/21/13 22:45	1

**Client Sample ID: CV1151A-CS-SP**

**Lab Sample ID: 680-88420-12**

Date Collected: 03/14/13 11:19

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	59	J	130	25	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Acenaphthylene	50	J	51	6.3	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Anthracene	62		11	5.3	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Benzo[a]anthracene	300		10	4.9	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Benzo[a]pyrene	200	F	13	6.6	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Benzo[b]fluoranthene	440		15	7.7	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Benzo[g,h,i]perylene	170		25	5.6	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Benzo[k]fluoranthene	120		10	4.6	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Chrysene	340		11	5.7	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Dibenz(a,h)anthracene	67		25	5.2	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Fluoranthene	390	F	25	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Fluorene	43		25	5.2	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Indeno[1,2,3-cd]pyrene	140		25	9.0	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
1-Methylnaphthalene	94		51	5.6	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
2-Methylnaphthalene	190		51	9.0	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Naphthalene	90		51	5.6	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Phenanthrene	310		10	4.9	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	1
Pyrene	310	F	25	4.7	ug/Kg	☼	03/21/13 11:14	03/26/13 12:30	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	72		30 - 130				03/21/13 11:14	03/26/13 12:30	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

**Client Sample ID: CV1151B-CS-SP**

**Lab Sample ID: 680-88420-13**

Date Collected: 03/14/13 11:27

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Acenaphthylene</b>	<b>36</b>	<b>J</b>	48	6.1	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Anthracene</b>	<b>30</b>		10	5.1	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Benzo[a]anthracene</b>	<b>140</b>		9.7	4.7	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Benzo[a]pyrene</b>	<b>71</b>		13	6.3	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Benzo[b]fluoranthene</b>	<b>220</b>		15	7.4	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Benzo[g,h,i]perylene</b>	<b>86</b>		24	5.3	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Benzo[k]fluoranthene</b>	<b>66</b>		9.7	4.4	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Chrysene</b>	<b>140</b>		11	5.4	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Dibenz(a,h)anthracene</b>	<b>40</b>		24	5.0	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Fluoranthene</b>	<b>170</b>		24	4.8	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
Fluorene	24	U	24	5.0	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>68</b>		24	8.6	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>1-Methylnaphthalene</b>	<b>52</b>		48	5.3	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>2-Methylnaphthalene</b>	<b>140</b>		48	8.6	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Naphthalene</b>	<b>67</b>		48	5.3	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Phenanthrene</b>	<b>120</b>		9.7	4.7	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Pyrene</b>	<b>150</b>		24	4.5	ug/Kg	☼	03/21/13 08:38	03/21/13 23:00	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	56		30 - 130				03/21/13 08:38	03/21/13 23:00	1

**Client Sample ID: CV0137A-CS**

**Lab Sample ID: 680-88420-14**

Date Collected: 03/14/13 12:20

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Acenaphthylene</b>	<b>30</b>	<b>J</b>	51	6.4	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Anthracene</b>	<b>27</b>		11	5.4	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Benzo[a]anthracene</b>	<b>120</b>		10	5.0	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Benzo[a]pyrene</b>	<b>51</b>		13	6.7	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Benzo[b]fluoranthene</b>	<b>170</b>		16	7.8	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Benzo[g,h,i]perylene</b>	<b>72</b>		26	5.6	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Benzo[k]fluoranthene</b>	<b>56</b>		10	4.6	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Chrysene</b>	<b>120</b>		12	5.8	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Dibenz(a,h)anthracene</b>	<b>36</b>		26	5.2	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Fluoranthene</b>	<b>120</b>		26	5.1	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
Fluorene	26	U	26	5.2	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>62</b>		26	9.1	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>1-Methylnaphthalene</b>	<b>61</b>		51	5.6	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>2-Methylnaphthalene</b>	<b>130</b>		51	9.1	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Naphthalene</b>	<b>53</b>		51	5.6	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Phenanthrene</b>	<b>110</b>		10	5.0	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Pyrene</b>	<b>120</b>		26	4.7	ug/Kg	☼	03/21/13 08:38	03/21/13 23:15	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	56		30 - 130				03/21/13 08:38	03/21/13 23:15	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

**Client Sample ID: FM0004A-CS**

**Lab Sample ID: 680-88420-15**

Date Collected: 03/14/13 12:50

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	55	J	130	25	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Acenaphthylene	69		50	6.3	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Anthracene	100		11	5.3	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Benzo[a]anthracene	530		10	4.9	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Benzo[a]pyrene	380		13	6.5	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Benzo[b]fluoranthene	720		15	7.6	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Benzo[g,h,i]perylene	310		25	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Benzo[k]fluoranthene	280		10	4.5	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Chrysene	570		11	5.6	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Dibenz(a,h)anthracene	110		25	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Fluoranthene	1100		25	5.0	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Fluorene	40		25	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Indeno[1,2,3-cd]pyrene	300		25	8.9	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
1-Methylnaphthalene	35	J	50	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
2-Methylnaphthalene	110		50	8.9	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Naphthalene	52		50	5.5	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Phenanthrene	400		10	4.9	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	1
Pyrene	940		25	4.6	ug/Kg	☼	03/21/13 11:14	03/26/13 13:23	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	77		30 - 130				03/21/13 11:14	03/26/13 13:23	1

**Client Sample ID: FM0004A-CSD**

**Lab Sample ID: 680-88420-16**

Date Collected: 03/14/13 12:50

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	48	J	120	25	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Acenaphthylene	65		49	6.2	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Anthracene	68		10	5.2	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Benzo[a]anthracene	360		9.9	4.8	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Benzo[a]pyrene	310		13	6.4	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Benzo[b]fluoranthene	580		15	7.5	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Benzo[g,h,i]perylene	260		25	5.4	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Benzo[k]fluoranthene	160		9.9	4.5	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Chrysene	430		11	5.6	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Dibenz(a,h)anthracene	59		25	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Fluoranthene	710		25	4.9	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Fluorene	25	U	25	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Indeno[1,2,3-cd]pyrene	240		25	8.8	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
1-Methylnaphthalene	32	J	49	5.4	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
2-Methylnaphthalene	100		49	8.8	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Naphthalene	47	J	49	5.4	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Phenanthrene	270		9.9	4.8	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	1
Pyrene	610		25	4.6	ug/Kg	☼	03/21/13 11:14	03/26/13 13:39	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	67		30 - 130				03/21/13 11:14	03/26/13 13:39	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

**Client Sample ID: FM0004B-CS**

**Lab Sample ID: 680-88420-17**

Date Collected: 03/14/13 13:00

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 81.2

**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	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Acenaphthylene</b>	<b>11</b>	<b>J</b>	49	6.2	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Anthracene</b>	<b>33</b>		10	5.2	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Benzo[a]anthracene</b>	<b>180</b>		9.8	4.8	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Benzo[a]pyrene</b>	<b>210</b>		13	6.4	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Benzo[b]fluoranthene</b>	<b>290</b>		15	7.5	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Benzo[g,h,i]perylene</b>	<b>130</b>		25	5.4	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Benzo[k]fluoranthene</b>	<b>100</b>		9.8	4.4	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Chrysene</b>	<b>200</b>		11	5.5	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Dibenz(a,h)anthracene</b>	<b>47</b>		25	5.0	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Fluoranthene</b>	<b>260</b>		25	4.9	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Fluorene</b>	<b>14</b>	<b>J</b>	25	5.0	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>120</b>		25	8.7	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>1-Methylnaphthalene</b>	<b>22</b>	<b>J</b>	49	5.4	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>2-Methylnaphthalene</b>	<b>36</b>	<b>J</b>	49	8.7	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Naphthalene</b>	<b>30</b>	<b>J</b>	49	5.4	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Phenanthrene</b>	<b>110</b>		9.8	4.8	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	1
<b>Pyrene</b>	<b>260</b>		25	4.6	ug/Kg	☼	03/21/13 11:14	03/27/13 19:21	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				03/21/13 11:14	03/27/13 19:21	1

**Client Sample ID: FM0004C-CS**

**Lab Sample ID: 680-88420-18**

Date Collected: 03/14/13 13:10

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 73.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
Acenaphthylene	53	U	53	6.6	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>Anthracene</b>	<b>23</b>		11	5.6	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>Benzo[a]anthracene</b>	<b>84</b>		11	5.2	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>Benzo[a]pyrene</b>	<b>66</b>		14	6.9	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>Benzo[b]fluoranthene</b>	<b>210</b>		16	8.1	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>Benzo[g,h,i]perylene</b>	<b>69</b>		27	5.8	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>Benzo[k]fluoranthene</b>	<b>48</b>		11	4.8	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>Chrysene</b>	<b>160</b>		12	6.0	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>Dibenz(a,h)anthracene</b>	<b>24</b>	<b>J</b>	27	5.4	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>Fluoranthene</b>	<b>150</b>		27	5.3	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
Fluorene	27	U	27	5.4	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>40</b>		27	9.4	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>1-Methylnaphthalene</b>	<b>62</b>		53	5.8	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>2-Methylnaphthalene</b>	<b>130</b>		53	9.4	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>Naphthalene</b>	<b>68</b>		53	5.8	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>Phenanthrene</b>	<b>130</b>		11	5.2	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	1
<b>Pyrene</b>	<b>140</b>		27	4.9	ug/Kg	☼	03/21/13 11:14	03/26/13 15:15	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	57		30 - 130				03/21/13 11:14	03/26/13 15:15	1

TestAmerica Savannah



# Client Sample Results

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

**Client Sample ID: CV1035A-CS**

**Lab Sample ID: 680-88420-19**

Date Collected: 03/14/13 14:05

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 87.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	52	J	110	23	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Acenaphthylene	110		46	5.7	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Anthracene	140		9.6	4.8	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Benzo[a]anthracene	620		9.1	4.4	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Benzo[a]pyrene	510		12	5.9	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Benzo[b]fluoranthene	790		14	7.0	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Benzo[g,h,i]perylene	490		23	5.0	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Benzo[k]fluoranthene	390		9.1	4.1	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Chrysene	620		10	5.1	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Dibenz(a,h)anthracene	150		23	4.7	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Fluoranthene	1200		23	4.6	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Fluorene	68		23	4.7	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Indeno[1,2,3-cd]pyrene	460		23	8.1	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
1-Methylnaphthalene	66		46	5.0	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
2-Methylnaphthalene	140		46	8.1	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Naphthalene	110		46	5.0	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Phenanthrene	700		9.1	4.4	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	1
Pyrene	1200		23	4.2	ug/Kg	☼	03/21/13 11:14	03/26/13 15:30	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	57		30 - 130				03/21/13 11:14	03/26/13 15:30	1

**Client Sample ID: CV1035B-CS**

**Lab Sample ID: 680-88420-20**

Date Collected: 03/14/13 14:15

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	99	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Acenaphthylene	57	J	200	25	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Anthracene	100		42	21	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Benzo[a]anthracene	470		40	19	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Benzo[a]pyrene	440		51	26	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Benzo[b]fluoranthene	870		60	30	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Benzo[g,h,i]perylene	420		99	22	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Benzo[k]fluoranthene	300		40	18	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Chrysene	580		44	22	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Dibenz(a,h)anthracene	130		99	20	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Fluoranthene	880		99	20	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Fluorene	24	J	99	20	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Indeno[1,2,3-cd]pyrene	260		99	35	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
1-Methylnaphthalene	110	J	200	22	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
2-Methylnaphthalene	160	J	200	35	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Naphthalene	150	J	200	22	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Phenanthrene	470		40	19	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	4
Pyrene	780		99	18	ug/Kg	☼	03/21/13 11:14	03/27/13 19:39	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	85		30 - 130				03/21/13 11:14	03/27/13 19:39	4

TestAmerica Savannah

# QC Sample Results

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

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

**Lab Sample ID: MB 660-135608/1-A**

**Matrix: Solid**

**Analysis Batch: 135630**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 135608**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		03/21/13 08:38	03/21/13 17:27	1
Acenaphthylene	40	U	40	5.0	ug/Kg		03/21/13 08:38	03/21/13 17:27	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		03/21/13 08:38	03/21/13 17:27	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		03/21/13 08:38	03/21/13 17:27	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		03/21/13 08:38	03/21/13 17:27	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		03/21/13 08:38	03/21/13 17:27	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		03/21/13 08:38	03/21/13 17:27	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		03/21/13 08:38	03/21/13 17:27	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		03/21/13 08:38	03/21/13 17:27	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		03/21/13 08:38	03/21/13 17:27	1
Fluoranthene	20	U	20	4.0	ug/Kg		03/21/13 08:38	03/21/13 17:27	1
Fluorene	20	U	20	4.1	ug/Kg		03/21/13 08:38	03/21/13 17:27	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		03/21/13 08:38	03/21/13 17:27	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		03/21/13 08:38	03/21/13 17:27	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		03/21/13 08:38	03/21/13 17:27	1
Naphthalene	40	U	40	4.4	ug/Kg		03/21/13 08:38	03/21/13 17:27	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		03/21/13 08:38	03/21/13 17:27	1
Pyrene	20	U	20	3.7	ug/Kg		03/21/13 08:38	03/21/13 17:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	57		30 - 130	03/21/13 08:38	03/21/13 17:27	1

**Lab Sample ID: LCS 660-135608/2-A**

**Matrix: Solid**

**Analysis Batch: 135792**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 135608**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	645	482		ug/Kg		75	39 - 130
Acenaphthylene	645	504		ug/Kg		78	38 - 130
Anthracene	645	502		ug/Kg		78	37 - 130
Benzo[a]anthracene	645	562		ug/Kg		87	40 - 130
Benzo[a]pyrene	645	480		ug/Kg		74	49 - 130
Benzo[b]fluoranthene	645	508		ug/Kg		79	37 - 130
Benzo[g,h,i]perylene	645	486		ug/Kg		75	32 - 130
Benzo[k]fluoranthene	645	534		ug/Kg		83	32 - 130
Chrysene	645	504		ug/Kg		78	41 - 130
Dibenz(a,h)anthracene	645	515		ug/Kg		80	27 - 130
Fluoranthene	645	519		ug/Kg		80	40 - 130
Fluorene	645	514		ug/Kg		80	40 - 130
Indeno[1,2,3-cd]pyrene	645	452		ug/Kg		70	30 - 130
1-Methylnaphthalene	645	512		ug/Kg		79	31 - 130
2-Methylnaphthalene	645	497		ug/Kg		77	33 - 130
Naphthalene	645	478		ug/Kg		74	36 - 130
Phenanthrene	645	501		ug/Kg		78	42 - 130
Pyrene	645	514		ug/Kg		80	44 - 130

TestAmerica Savannah



# QC Sample Results

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

**Lab Sample ID: LCS 660-135608/2-A**  
**Matrix: Solid**  
**Analysis Batch: 135792**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 135608**

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	76		30 - 130

**Lab Sample ID: MB 660-135631/1-A**  
**Matrix: Solid**  
**Analysis Batch: 135850**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 135631**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	97	U	97	19	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Acenaphthylene	39	U	39	4.9	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Anthracene	8.2	U	8.2	4.1	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Benzo[a]anthracene	7.8	U	7.8	3.8	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Benzo[b]fluoranthene	12	U	12	5.9	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Benzo[g,h,i]perylene	19	U	19	4.3	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Benzo[k]fluoranthene	7.8	U	7.8	3.5	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Chrysene	8.8	U	8.8	4.4	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Dibenz(a,h)anthracene	19	U	19	4.0	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Fluoranthene	19	U	19	3.9	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Fluorene	19	U	19	4.0	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Indeno[1,2,3-cd]pyrene	19	U	19	6.9	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
1-Methylnaphthalene	39	U	39	4.3	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
2-Methylnaphthalene	39	U	39	6.9	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Naphthalene	39	U	39	4.3	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Phenanthrene	7.8	U	7.8	3.8	ug/Kg		03/21/13 11:14	03/26/13 11:59	1
Pyrene	19	U	19	3.6	ug/Kg		03/21/13 11:14	03/26/13 11:59	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o</i> -Terphenyl	81		30 - 130	03/21/13 11:14	03/26/13 11:59	1

**Lab Sample ID: LCS 660-135631/2-A**  
**Matrix: Solid**  
**Analysis Batch: 135850**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 135631**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Acenaphthene	653	430		ug/Kg		66	39 - 130
Acenaphthylene	653	477		ug/Kg		73	38 - 130
Anthracene	653	437		ug/Kg		67	37 - 130
Benzo[a]anthracene	653	501		ug/Kg		77	40 - 130
Benzo[a]pyrene	653	427		ug/Kg		65	49 - 130
Benzo[b]fluoranthene	653	471		ug/Kg		72	37 - 130
Benzo[g,h,i]perylene	653	437		ug/Kg		67	32 - 130
Benzo[k]fluoranthene	653	501		ug/Kg		77	32 - 130
Chrysene	653	489		ug/Kg		75	41 - 130
Dibenz(a,h)anthracene	653	496		ug/Kg		76	27 - 130
Fluoranthene	653	479		ug/Kg		73	40 - 130
Fluorene	653	491		ug/Kg		75	40 - 130
Indeno[1,2,3-cd]pyrene	653	434		ug/Kg		66	30 - 130
1-Methylnaphthalene	653	506		ug/Kg		77	31 - 130

TestAmerica Savannah

# QC Sample Results

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

**Lab Sample ID: LCS 660-135631/2-A**

**Matrix: Solid**

**Analysis Batch: 135850**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 135631**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	653	420		ug/Kg		64	33 - 130
Naphthalene	653	440		ug/Kg		67	36 - 130
Phenanthrene	653	437		ug/Kg		67	42 - 130
Pyrene	653	411		ug/Kg		63	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	70		30 - 130

**Lab Sample ID: 680-88420-12 MS**

**Matrix: Solid**

**Analysis Batch: 135830**

**Client Sample ID: CV1151A-CS-SP**

**Prep Type: Total/NA**

**Prep Batch: 135631**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	59	J	843	655		ug/Kg	☼	71	39 - 130
Acenaphthylene	50	J	843	619		ug/Kg	☼	68	38 - 130
Anthracene	62		843	772		ug/Kg	☼	84	37 - 130
Benzo[a]anthracene	300		843	1180		ug/Kg	☼	104	40 - 130
Benzo[a]pyrene	200	F	843	1110		ug/Kg	☼	107	49 - 130
Benzo[b]fluoranthene	440		843	1500		ug/Kg	☼	125	37 - 130
Benzo[g,h,i]perylene	170		843	846		ug/Kg	☼	80	32 - 130
Benzo[k]fluoranthene	120		843	1040		ug/Kg	☼	109	32 - 130
Chrysene	340		843	1240		ug/Kg	☼	107	41 - 130
Dibenz(a,h)anthracene	67		843	742		ug/Kg	☼	80	27 - 130
Fluoranthene	390	F	843	1800	F	ug/Kg	☼	167	40 - 130
Fluorene	43		843	654		ug/Kg	☼	73	40 - 130
Indeno[1,2,3-cd]pyrene	140		843	847		ug/Kg	☼	83	30 - 130
1-Methylnaphthalene	94		843	882		ug/Kg	☼	94	31 - 130
2-Methylnaphthalene	190		843	844		ug/Kg	☼	78	33 - 130
Naphthalene	90		843	772		ug/Kg	☼	81	36 - 130
Phenanthrene	310		843	1400		ug/Kg	☼	130	42 - 130
Pyrene	310	F	843	1640	F	ug/Kg	☼	158	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
<i>o</i> -Terphenyl	71		30 - 130

**Lab Sample ID: 680-88420-12 MSD**

**Matrix: Solid**

**Analysis Batch: 135850**

**Client Sample ID: CV1151A-CS-SP**

**Prep Type: Total/NA**

**Prep Batch: 135631**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Acenaphthene	59	J	849	642		ug/Kg	☼	69	39 - 130	2	40
Acenaphthylene	50	J	849	624		ug/Kg	☼	68	38 - 130	1	40
Anthracene	62		849	682		ug/Kg	☼	73	37 - 130	12	40
Benzo[a]anthracene	300		849	997		ug/Kg	☼	82	40 - 130	17	40
Benzo[a]pyrene	200	F	849	703	F	ug/Kg	☼	59	49 - 130	45	40
Benzo[b]fluoranthene	440		849	1030		ug/Kg	☼	69	37 - 130	37	40
Benzo[g,h,i]perylene	170		849	691		ug/Kg	☼	61	32 - 130	20	40
Benzo[k]fluoranthene	120		849	701		ug/Kg	☼	68	32 - 130	39	40

TestAmerica Savannah

# QC Sample Results

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

**Lab Sample ID: 680-88420-12 MSD**

**Matrix: Solid**

**Analysis Batch: 135850**

**Client Sample ID: CV1151A-CS-SP**

**Prep Type: Total/NA**

**Prep Batch: 135631**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chrysene	340		849	1010		ug/Kg	*	79	41 - 130	20	40
Dibenz(a,h)an hracene	67		849	733		ug/Kg	*	78	27 - 130	1	40
Fluoranthene	390	F	849	1020	F	ug/Kg	*	74	40 - 130	55	40
Fluorene	43		849	725		ug/Kg	*	80	40 - 130	10	40
Indeno[1,2,3-cd]pyrene	140		849	818		ug/Kg	*	79	30 - 130	4	40
1-Methylnaphthalene	94		849	796		ug/Kg	*	83	31 - 130	10	40
2-Methylnaphthalene	190		849	748		ug/Kg	*	66	33 - 130	12	40
Naphthalene	90		849	683		ug/Kg	*	70	36 - 130	12	40
Phenanthrene	310		849	1140		ug/Kg	*	99	42 - 130	20	40
Pyrene	310	F	849	1100		ug/Kg	*	92	44 - 130	40	40
				<b>MSD</b>	<b>MSD</b>						
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
<i>o</i> -Terphenyl	73		30 - 130								

# QC Association Summary

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

## GC/MS Semi VOA

### Prep Batch: 135608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88420-1	CV0200A-CS-SP	Total/NA	Solid	3546	
680-88420-2	CV0200B-CS-SP	Total/NA	Solid	3546	
680-88420-3	FM0347A-CS	Total/NA	Solid	3546	
680-88420-4	HP0035A-CS	Total/NA	Solid	3546	
680-88420-5	HP0035A-CSD	Total/NA	Solid	3546	
680-88420-6	CV0951A-CS	Total/NA	Solid	3546	
680-88420-7	CV0618A-CS	Total/NA	Solid	3546	
680-88420-8	CV0843A-CS-SP	Total/NA	Solid	3546	
680-88420-9	CV0843B-CS-SP	Total/NA	Solid	3546	
680-88420-10	CV0826A-CS-SP	Total/NA	Solid	3546	
680-88420-11	CV0826B-CS-SP	Total/NA	Solid	3546	
680-88420-13	CV1151B-CS-SP	Total/NA	Solid	3546	
680-88420-14	CV0137A-CS	Total/NA	Solid	3546	
LCS 660-135608/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135608/1-A	Method Blank	Total/NA	Solid	3546	

### Analysis Batch: 135630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88420-1	CV0200A-CS-SP	Total/NA	Solid	8270C LL	135608
680-88420-2	CV0200B-CS-SP	Total/NA	Solid	8270C LL	135608
680-88420-3	FM0347A-CS	Total/NA	Solid	8270C LL	135608
680-88420-4	HP0035A-CS	Total/NA	Solid	8270C LL	135608
680-88420-5	HP0035A-CSD	Total/NA	Solid	8270C LL	135608
680-88420-6	CV0951A-CS	Total/NA	Solid	8270C LL	135608
680-88420-7	CV0618A-CS	Total/NA	Solid	8270C LL	135608
680-88420-8	CV0843A-CS-SP	Total/NA	Solid	8270C LL	135608
680-88420-9	CV0843B-CS-SP	Total/NA	Solid	8270C LL	135608
680-88420-10	CV0826A-CS-SP	Total/NA	Solid	8270C LL	135608
680-88420-11	CV0826B-CS-SP	Total/NA	Solid	8270C LL	135608
680-88420-13	CV1151B-CS-SP	Total/NA	Solid	8270C LL	135608
680-88420-14	CV0137A-CS	Total/NA	Solid	8270C LL	135608
MB 660-135608/1-A	Method Blank	Total/NA	Solid	8270C LL	135608

### Prep Batch: 135631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88420-12	CV1151A-CS-SP	Total/NA	Solid	3546	
680-88420-12 MS	CV1151A-CS-SP	Total/NA	Solid	3546	
680-88420-12 MSD	CV1151A-CS-SP	Total/NA	Solid	3546	
680-88420-15	FM0004A-CS	Total/NA	Solid	3546	
680-88420-16	FM0004A-CSD	Total/NA	Solid	3546	
680-88420-17	FM0004B-CS	Total/NA	Solid	3546	
680-88420-18	FM0004C-CS	Total/NA	Solid	3546	
680-88420-19	CV1035A-CS	Total/NA	Solid	3546	
680-88420-20	CV1035B-CS	Total/NA	Solid	3546	
LCS 660-135631/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135631/1-A	Method Blank	Total/NA	Solid	3546	

### Analysis Batch: 135792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 660-135608/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135608

# QC Association Summary

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 135830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88420-12 MS	CV1151A-CS-SP	Total/NA	Solid	8270C LL	135631
680-88420-17	FM0004B-CS	Total/NA	Solid	8270C LL	135631
680-88420-20	CV1035B-CS	Total/NA	Solid	8270C LL	135631

### Analysis Batch: 135850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88420-12	CV1151A-CS-SP	Total/NA	Solid	8270C LL	135631
680-88420-12 MSD	CV1151A-CS-SP	Total/NA	Solid	8270C LL	135631
680-88420-15	FM0004A-CS	Total/NA	Solid	8270C LL	135631
680-88420-16	FM0004A-CSD	Total/NA	Solid	8270C LL	135631
680-88420-18	FM0004C-CS	Total/NA	Solid	8270C LL	135631
680-88420-19	CV1035A-CS	Total/NA	Solid	8270C LL	135631
LCS 660-135631/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135631
MB 660-135631/1-A	Method Blank	Total/NA	Solid	8270C LL	135631

## General Chemistry

### Analysis Batch: 135589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88420-1	CV0200A-CS-SP	Total/NA	Solid	Moisture	
680-88420-2	CV0200B-CS-SP	Total/NA	Solid	Moisture	
680-88420-3	FM0347A-CS	Total/NA	Solid	Moisture	
680-88420-4	HP0035A-CS	Total/NA	Solid	Moisture	
680-88420-5	HP0035A-CSD	Total/NA	Solid	Moisture	
LCS 660-135589/1	Lab Control Sample	Total/NA	Solid	Moisture	
LCSD 660-135589/22	Lab Control Sample Dup	Total/NA	Solid	Moisture	

### Analysis Batch: 135607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88420-6	CV0951A-CS	Total/NA	Solid	Moisture	
680-88420-7	CV0618A-CS	Total/NA	Solid	Moisture	
680-88420-8	CV0843A-CS-SP	Total/NA	Solid	Moisture	
680-88420-9	CV0843B-CS-SP	Total/NA	Solid	Moisture	
680-88420-10	CV0826A-CS-SP	Total/NA	Solid	Moisture	
680-88420-11	CV0826B-CS-SP	Total/NA	Solid	Moisture	
680-88420-12	CV1151A-CS-SP	Total/NA	Solid	Moisture	
680-88420-12 MS	CV1151A-CS-SP	Total/NA	Solid	Moisture	
680-88420-12 MSD	CV1151A-CS-SP	Total/NA	Solid	Moisture	
680-88420-13	CV1151B-CS-SP	Total/NA	Solid	Moisture	
LCS 660-135607/1	Lab Control Sample	Total/NA	Solid	Moisture	
LCSD 660-135607/13	Lab Control Sample Dup	Total/NA	Solid	Moisture	

### Analysis Batch: 135642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88420-14	CV0137A-CS	Total/NA	Solid	Moisture	
680-88420-15	FM0004A-CS	Total/NA	Solid	Moisture	
680-88420-16	FM0004A-CSD	Total/NA	Solid	Moisture	
680-88420-17	FM0004B-CS	Total/NA	Solid	Moisture	
LCS 660-135642/1	Lab Control Sample	Total/NA	Solid	Moisture	
LCSD 660-135642/12	Lab Control Sample Dup	Total/NA	Solid	Moisture	

TestAmerica Savannah

# QC Association Summary

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

TestAmerica Job ID: 680-88420-1  
SDG: 68088420-1

## General Chemistry (Continued)

### Analysis Batch: 135659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88420-18	FM0004C-CS	Total/NA	Solid	Moisture	
680-88420-19	CV1035A-CS	Total/NA	Solid	Moisture	
680-88420-20	CV1035B-CS	Total/NA	Solid	Moisture	
MB 660-135659/1	Method Blank	Total/NA	Solid	Moisture	

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## Lab Chronicle

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

### Client Sample ID: CV0200A-CS-SP

Lab Sample ID: 680-88420-1

Date Collected: 03/14/13 09:01

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 74.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135608	03/21/13 08:38	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135630	03/21/13 20:14	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135589	03/20/13 12:12	AG	TAL TAM

### Client Sample ID: CV0200B-CS-SP

Lab Sample ID: 680-88420-2

Date Collected: 03/14/13 09:16

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 73.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135608	03/21/13 08:38	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135630	03/21/13 20:29	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135589	03/20/13 12:19	AG	TAL TAM

### Client Sample ID: FM0347A-CS

Lab Sample ID: 680-88420-3

Date Collected: 03/14/13 08:40

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135608	03/21/13 08:38	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135630	03/21/13 20:44	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135589	03/20/13 12:29	AG	TAL TAM

### Client Sample ID: HP0035A-CS

Lab Sample ID: 680-88420-4

Date Collected: 03/14/13 09:45

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 72.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135608	03/21/13 08:38	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135630	03/21/13 20:59	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135589	03/20/13 12:45	AG	TAL TAM

### Client Sample ID: HP0035A-CSD

Lab Sample ID: 680-88420-5

Date Collected: 03/14/13 09:45

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 75.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135608	03/21/13 08:38	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135630	03/21/13 21:14	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135589	03/20/13 13:12	AG	TAL TAM

# Lab Chronicle

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

**Client Sample ID: CV0951A-CS**

**Lab Sample ID: 680-88420-6**

Date Collected: 03/14/13 10:10

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 67.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135608	03/21/13 08:38	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135630	03/21/13 21:29	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135607	03/21/13 07:02	AG	TAL TAM

**Client Sample ID: CV0618A-CS**

**Lab Sample ID: 680-88420-7**

Date Collected: 03/14/13 10:45

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 68.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135608	03/21/13 08:38	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135630	03/21/13 21:45	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135607	03/21/13 06:59	AG	TAL TAM

**Client Sample ID: CV0843A-CS-SP**

**Lab Sample ID: 680-88420-8**

Date Collected: 03/14/13 10:03

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135608	03/21/13 08:38	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135630	03/21/13 22:00	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135607	03/21/13 07:08	AG	TAL TAM

**Client Sample ID: CV0843B-CS-SP**

**Lab Sample ID: 680-88420-9**

Date Collected: 03/14/13 10:11

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 74.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135608	03/21/13 08:38	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135630	03/21/13 22:15	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135607	03/21/13 07:30	AG	TAL TAM

**Client Sample ID: CV0826A-CS-SP**

**Lab Sample ID: 680-88420-10**

Date Collected: 03/14/13 10:40

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 79.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135608	03/21/13 08:38	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135630	03/21/13 22:30	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135607	03/21/13 07:54	AG	TAL TAM



# Lab Chronicle

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

## Client Sample ID: CV0826B-CS-SP

Lab Sample ID: 680-88420-11

Date Collected: 03/14/13 10:51

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 76.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135608	03/21/13 08:38	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135630	03/21/13 22:45	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135607	03/21/13 08:00	AG	TAL TAM

## Client Sample ID: CV1151A-CS-SP

Lab Sample ID: 680-88420-12

Date Collected: 03/14/13 11:19

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135631	03/21/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135850	03/26/13 12:30	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135607	03/21/13 08:16	AG	TAL TAM

## Client Sample ID: CV1151B-CS-SP

Lab Sample ID: 680-88420-13

Date Collected: 03/14/13 11:27

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135608	03/21/13 08:38	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135630	03/21/13 23:00	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135607	03/21/13 08:34	AG	TAL TAM

## Client Sample ID: CV0137A-CS

Lab Sample ID: 680-88420-14

Date Collected: 03/14/13 12:20

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135608	03/21/13 08:38	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135630	03/21/13 23:15	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135642	03/21/13 12:00	AG	TAL TAM

## Client Sample ID: FM0004A-CS

Lab Sample ID: 680-88420-15

Date Collected: 03/14/13 12:50

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135631	03/21/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135850	03/26/13 13:23	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135642	03/21/13 09:04	AG	TAL TAM

# Lab Chronicle

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

TestAmerica Job ID: 680-88420-1  
 SDG: 68088420-1

## Client Sample ID: FM0004A-CSD

Lab Sample ID: 680-88420-16

Date Collected: 03/14/13 12:50

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135631	03/21/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135850	03/26/13 13:39	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135642	03/21/13 09:04	AG	TAL TAM

## Client Sample ID: FM0004B-CS

Lab Sample ID: 680-88420-17

Date Collected: 03/14/13 13:00

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135631	03/21/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135830	03/27/13 19:21	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135642	03/21/13 10:15	AG	TAL TAM

## Client Sample ID: FM0004C-CS

Lab Sample ID: 680-88420-18

Date Collected: 03/14/13 13:10

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 73.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135631	03/21/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135850	03/26/13 15:15	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135659	03/22/13 06:22	AG	TAL TAM

## Client Sample ID: CV1035A-CS

Lab Sample ID: 680-88420-19

Date Collected: 03/14/13 14:05

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135631	03/21/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135850	03/26/13 15:30	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135659	03/22/13 06:22	AG	TAL TAM

## Client Sample ID: CV1035B-CS

Lab Sample ID: 680-88420-20

Date Collected: 03/14/13 14:15

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135631	03/21/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135830	03/27/13 19:39	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135659	03/22/13 06:22	AG	TAL TAM

**Laboratory References:**

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

TestAmerica Savannah

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 <b>35TH AVE REMOVAL</b>	PROJECT NO. <b>2005148-1356</b>	PROJECT LOCATION (STATE) <b>AL</b>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <b>1</b>	OF <b>4</b>
TAL (LAB) PROJECT MANAGER <b>LISA HARVEY</b>	P.O. NUMBER	CONTRACT NO.			STANDARD REPORT DELIVERY <input type="checkbox"/>	DATE DUE _____

**(b) (6)**

COMPANY CONTIN		COMPOSITE	AQUEOUS (WATER) SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	PCPA-B METALS	PRESERVATIVE	STANDARD REPORT DELIVERY <input type="checkbox"/>	DATE DUE _____	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="checkbox"/>	DATE DUE _____	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:
SAMPLE		SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS SUBMITTED		REMARKS							

Page 27 of 32

DATE	TIME	SAMPLE IDENTIFICATION	COMPOSITE	AQUEOUS (WATER) SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	PCPA-B METALS	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3-14-13	0901	CV0200A-CS-SP	C	X		X					
	0916	CV0200B-CS-SP	C	X		X					
	0840	FM0347A-CS	C	X		X					
	0945	HP0035A-CS	C	X		X					
	0945	HP0035A-CSD	C	X		X					
	1010	CV0951A-CS	C	X		X					
	1045	CV0618A-CS	C	X		X					
	1003	CV0843A-CS-SP	C	X		X					
	1011	CV0843B-CS-SP	C	X		X					
	1040	CV0826A-CS-SP	C	X		X					
	1051	CV0826B-CS-SP	C	X		X					
	1119	CV1151A-CS-SP	C	X		X	X				

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <b>3-15-13</b>	TIME <b>1005</b>	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

3/28/2013

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <b>3/16/13</b>	TIME <b>0920</b>	CUSTODY INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <b>680-88420</b>	LABORATORY REMARKS <b>3.4°C</b>
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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: **35TH AVE REMOVAL** PROJECT NO.: **2005148-1356** PROJECT LOCATION (STATE): **AL** MATRIX TYPE: \_\_\_\_\_  
TAL (LAB) PROJECT MANAGER: **LISA HARVEY** P.O. NUMBER: \_\_\_\_\_ CONTRACT NO.: \_\_\_\_\_

PAGE **2** OF **4**

STANDARD REPORT DELIVERY   
DATE DUE \_\_\_\_\_  
EXPEDITED REPORT DELIVERY (SURCHARGE)   
DATE DUE \_\_\_\_\_

**(b) (6)**

PRESERVATIVE

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (✓) OR UNCOMPOSITE (○)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS										REMARKS				
DATE	TIME							1	2	3	4	5	6	7	8	9	10		11	12		
3-14-13	1127	CV1151B-CS-SP	C	X			X															
	1220	CVO137A-CS	C	X			X															
	1250	FM0004A-CS	C	X			X															
	1250	FM0004A-CSD	C	X			X															
	1300	FM0004B-CS	C	X			X															
	1310	FM0004C-CS	C	X			X															
	1405	CV1035A-CS	C	X			X															
	1415	CV1035B-CS	C	X			X															
	1430	CV1037A-CS	C	X			X															
	1440	CV1037B-CS	C	X			X															
	1238	CVO353A-CS-SP	C	X			X															
	1250	CVO353B-CS-SP	C	X			X															

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 3-15-13	TIME 1000	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 3/16/13	TIME 0920	CUSTODY INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680-88420	LABORATORY REMARKS 3.4°C
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Page 28 of 32

3/28/2013



## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88420-1

SDG Number: 68088420-1

**Login Number: 88420**

**List Number: 1**

**Creator: Conner, Keaton**

**List Source: TestAmerica Savannah**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
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.	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").	True	
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: 680-88420-1

SDG Number: 68088420-1

**Login Number: 88420**

**List Number: 1**

**Creator: Edwards, Erricka**

**List Source: TestAmerica Tampa**

**List Creation: 03/20/13 08:50 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: 680-88420-1  
 SDG: 68088420-1

## Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	03-31-13
A2LA	ISO/IEC 17025		399.01	03-31-13
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
Connecticut	State Program	1	PH-0161	03-31-13
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
New York	NELAP	2	10842	04-01-13
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

TestAmerica Savannah

# Certification Summary

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

TestAmerica Job ID: 680-88420-1  
SDG: 68088420-1

## Laboratory: TestAmerica Tampa (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Georgia	State Program	4	905	06-30-13
USDA	Federal		P330-11-00177	04-20-14

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