

REDACTED

Data Validation Checklist Semivolatile Organic Analyses

Project: 35TH Avenue Superfund Site
 Laboratory: TestAmerica - Savannah, GA¹
 Method: SW-846 8270C Low-Level (PAH)
 Matrix: Soil
 Reviewer: Karen Marie Trujillo, URS Group
 Concurrence²: Nicole Lancaster, URS Group

Project No: 15268508.20000
 Job ID.: 680-89459-2
 Associated Samples: Refer to **Attachment A** (Sample Summary)
 Samples Collected: 04/16/2013
 Date: 05/10/2013
 Date: 05/16/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.	✓				
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 041513-RB-Shovel (680-89421-10).	

¹ All analytical work subcontracted to TestAmerica of Tampa, FL

² Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank, 041513-RB-Shovel (680-89421-10) was collected during the week of 4/15/13. The rinsate blank was analyzed for PAHs under Test America Job ID 680-89421-1.	
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?	✓			- CV1219A-CSD (680-89459-21) is a field duplicate of CV1219A-CS (680-89459-20). CV1219A-CS was analyzed under Test America Job ID 680-89459-1. - CV1344A-CSD (680-89459-24) is a field duplicate of CV1344A-CS (680-89459-23).	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to Attachment 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? - 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. - An initial calibration is to be associated with each sample analysis. - A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.	✓			- Instrument ID: BSMC5973 - Initial Calibration: 04/24/2013 - ICV: 04/24/13 @ 16:06 - Instrument ID: BSMD5973 - Initial Calibration: 04/04/2013 - ICV: 04/04/13 @ 16:27 - CCV: 04/23/13 @ 13:06 - CCV: 04/24/13 @ 12:46	
19. Were calibration results within laboratory/project specifications? ICAL (Criteria: ≤ 15 mean %RSD with individual CCC %RSD ≤ 30 ($\leq 50\%$ for poor performers), OR $r \geq 0.995$, OR $r^2 \geq 0.99$, and RRF ≥ 0.050 (≥ 0.010 for poor performers)):		✓		ICV of 04/04/13 @ 16:27, instrument BSMD5973: Benzo[a]pyrene @ -23.7 %D (Lab: ≤ 35 , Project: ≤ 20), 76.5%R. A negative bias is indicated by the ICV percent difference and the analyte was detected in the	J

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
○ If %RSD>15 (>50% for poor performers), or $r < 0.995$, or $r^2 < 0.995$, then J-flag positive results and UJ-flag non-detects ○ If mean RRF <0.050 (<0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: $\leq 20\%D$ ($\leq 50\%$ for poor performers) and $RF \geq 0.050$ (≥ 0.010 for poor performers)): ○ If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects ○ If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds				associated samples ³ ; therefore, J-flag sample results.	
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?	✓			• Prep Batch 136752: 680-89459-22 (CV1219B-CS), MS/MSD • Prep Batch 136731: 680-89421-1 (CV1001A-CS), MS/MSD. Lab sample 680-89421-1 is a project-specific sample (CV1001A-CS) that was selected by TestAmerica for the PAH MS and MSD analyses, and the results were reported under Job ID 680-89421-1. • Prep Batch 136660: 680-89328-25 (CV1350A-CS), MS/MSD. Lab sample 680-89328-25 is a project specific sample (CV1350A-CS) that was selected by TestAmerica for the PAH MS and MSD analyses, and the results were reported under Job ID 680-89328-2.	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples are</i>	✓				

³ Associated samples: 680-89459-21 through -30

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<i>evaluated that are reported under this Job ID are evaluated.</i> - If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. - If either MS or MSD recovery meets control limits, qualification of data is not warranted. - MS and MSD %R<10: J and R Flag positive and ND results, respectively - MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results - MS and MSD R% >UCL (or 140): J-Flag positive results					
26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples are evaluated that are reported under this Job ID are evaluated.</i> - If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. - If %RPD > UCL, J-flag positive result and UJ-flag non-detect result.	✓				
27. Were surrogate recoveries within lab/project specifications? - If %R for 1 Acid or BN surrogates <10, then J-flag positive and R-flag non-detect associated sample results - If 2 or more Acid or BN %R >UCL, then J-flag positive results - If 2 or more Acid or BN %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results - If 2 or more Acid or BN , with 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results	✓				
28. Were internal standard (IS) results within lab/project specifications? - 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 - If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results - 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	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
results - If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-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 Attachment C (Case Narrative)	
Comments: 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 (Attachment D). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.					

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: 680-89459-2
SDG: 68089459-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89459-21	CV1219A-CSD	Solid	04/16/13 13:50	04/18/13 08:30
680-89459-22	CV1219B-CS	Solid	04/16/13 14:00	04/18/13 08:30
680-89459-23	CV1344A-CS	Solid	04/16/13 13:10	04/18/13 08:30
680-89459-24	CV1344A-CSD	Solid	04/16/13 13:10	04/18/13 08:30
680-89459-25	CV1344B-CS	Solid	04/16/13 13:20	04/18/13 08:30
680-89459-26	CV1344C-CS	Solid	04/16/13 13:34	04/18/13 08:30
680-89459-27	CV0313A-CS-SP	Solid	04/16/13 14:40	04/18/13 08:30
680-89459-28	CV0313B-CS-SP	Solid	04/16/13 15:00	04/18/13 08:30
680-89459-29	CV0423A-CS-SP	Solid	04/16/13 15:35	04/18/13 08:30
680-89459-30	CV0423B-CS-SP	Solid	04/16/13 15:50	04/18/13 08:30
680-89459-31	CV1013A-CS-SP	Solid	04/16/13 13:45	04/18/13 08:30
680-89459-32	CV1013B-CS-SP	Solid	04/16/13 14:00	04/18/13 08:30

ATTACHMENT B
FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV1219A-CS 680-89459-20	RL	CV1219A-CSD 680-89459-21	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	7.6 J	50	7.2 J	50	µg/kg	250	NA	0.4	100	None, absolute difference ≤ 2x Avg RL
Anthracene	35	11	38	11	µg/kg	55	NA	3	22	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	550	10	570	10	µg/kg	50	4	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	1200	13	1200	13	µg/kg	65	0	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	1700	15	1700	15	µg/kg	75	0	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	780	25	770	25	µg/kg	125	1	NA	NA	None, RPD ≤ 50%
Benzo(k)fluoranthene	570	10	620	10	µg/kg	50	8	NA	NA	None, RPD ≤ 50%
Chrysene	700	11	730	11	µg/kg	55	4	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	240	25	220	25	µg/kg	125	9	NA	NA	None, RPD ≤ 50%
Fluoranthene	420	25	440	25	µg/kg	125	5	NA	NA	None, RPD ≤ 50%
Fluorene	14 J	25	17 J	25	µg/kg	125	NA	3	50	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	670	25	640	25	µg/kg	125	5	NA	NA	None, RPD ≤ 50%
1-Methylnaphthalene	38 J	50	46 J	50	µg/kg	250	NA	8	100	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	48 J	50	57	50	µg/kg	250	NA	9	100	None, absolute difference ≤ 2x Avg RL
Naphthalene	41 J	50	52	50	µg/kg	250	NA	11	100	None, absolute difference ≤ 2x Avg RL
Phenanthrene	170	10	180	10	µg/kg	50	6	NA	NA	None, RPD ≤ 50%
Pyrene	370	25	390	25	µg/kg	125	5	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

UJ - Not detected and the limit is estimated

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

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

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV1344A-CS 680-89459-23	RL	CV1344A-CSD 680-89459-24	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action	
Acenaphthylene	63	J	51	J	210	μg/kg	1050	NA	12	420	None, absolute difference ≤ 2x Avg RL
Anthracene	99		70		44	μg/kg	220	NA	29	88	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	380		260		42	μg/kg	210	38	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	230		260		54	μg/kg	272.5	NA	30	109	None, absolute difference ≤ 2x Avg RL
Benzo(b)fluoranthene	400		480		63	μg/kg	317.5	18	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	130		180		100	μg/kg	500	NA	50	200	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	150		130		42	μg/kg	210	NA	20	84	None, absolute difference ≤ 2x Avg RL
Chrysene	420		380		47	μg/kg	235	10	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	44	J	58	J	100	μg/kg	500	NA	14	200	None, absolute difference ≤ 2x Avg RL
Fluoranthene	550		510		100	μg/kg	500	8	NA	NA	None, RPD ≤ 50%
Fluorene	26	J			100	μg/kg	500	NA	26	200	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	110		140		100	μg/kg	500	NA	30	200	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	240		110	J	210	μg/kg	1050	NA	130	420	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	94	J	100	J	210	μg/kg	1050	NA	6	420	None, absolute difference ≤ 2x Avg RL
Naphthalene	71	J	85	J	210	μg/kg	1050	NA	14	420	None, absolute difference ≤ 2x Avg RL
Phenanthrene	900		310		42	μg/kg	210	98	NA	NA	J/UJ-flag, RPD > 50%
Pyrene	440		390		100	μg/kg	500	NA	50	200	None, absolute difference ≤ 2x Avg RL

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

μg/kg - micrograms per kilogram

J - Estimated value

UJ - Not detected and the limit is estimated

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

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

ATTACHMENT C
CASE NARRATIVE

Case Narrative

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

TestAmerica Job ID: 680-89459-2
SDG: 68089459-2

Job ID: 680-89459-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89459-2

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

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

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

RECEIPT

The samples were received on 04/18/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1219A-CSD (680-89459-21), CV1219B-CS (680-89459-22), CV1344A-CS (680-89459-23), CV1344A-CSD (680-89459-24), CV1344B-CS (680-89459-25), CV1344C-CS (680-89459-26), CV0313A-CS-SP (680-89459-27), CV0313B-CS-SP (680-89459-28), CV0423A-CS-SP (680-89459-29), CV0423B-CS-SP (680-89459-30), CV1013A-CS-SP (680-89459-31) and CV1013B-CS-SP (680-89459-32) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/19/2013 and 04/23/2013 and analyzed on 04/23/2013 and 04/24/2013.

Samples CV1344A-CS (680-89459-23)[4X], CV1344A-CSD (680-89459-24)[4X], CV1344B-CS (680-89459-25)[4X], CV1344C-CS (680-89459-26)[4X] and CV0313B-CS-SP (680-89459-28)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Benzo(a)pyrene recovered outside the recovery criteria for the MS of sample 680-89328-25 in batch 660-136756.

Several analytes recovered outside the recovery criteria high for the MSD of sample 680-89421-1 in batch 660-136792.

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: 680-89459-2
SDG: 68089459-2

Client Sample ID: CV1219A-CSD

Lab Sample ID: 680-89459-21

Date Collected: 04/16/13 13:50

Matrix: Solid

Date Received: 04/18/13 08:30

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	25	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Acenaphthylene	7.2	J	50	6.3	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Anthracene	38		11	5.3	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Benzo[a]anthracene	570		10	4.9	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Benzo[a]pyrene	1200	J	13	6.5	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Benzo[b]fluoranthene	1700		15	7.7	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Benzo[g,h,i]perylene	770		25	5.5	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Benzo[k]fluoranthene	620		10	4.5	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Chrysene	730		11	5.6	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Dibenz(a,h)anthracene	220		25	5.1	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Fluoranthene	440		25	5.0	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Fluorene	17	J	25	5.1	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Indeno[1,2,3-cd]pyrene	640		25	8.9	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
1-Methylnaphthalene	46	J	50	5.5	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
2-Methylnaphthalene	57		50	8.9	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Naphthalene	52		50	5.5	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Phenanthrene	180		10	4.9	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Pyrene	390		25	4.6	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	46		30 - 130	04/19/13 15:35	04/23/13 21:15	1

Client Sample ID: CV1219B-CS

Lab Sample ID: 680-89459-22

Date Collected: 04/16/13 14:00

Matrix: Solid

Date Received: 04/18/13 08:30

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	130	U	130	26	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Acenaphthylene	9.5	J	51	6.4	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Anthracene	27		11	5.4	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Benzo[a]anthracene	140		10	5.0	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Benzo[a]pyrene	200	J	13	6.6	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Benzo[b]fluoranthene	350		16	7.8	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Benzo[g,h,i]perylene	150		26	5.6	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Benzo[k]fluoranthene	110		10	4.6	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Chrysene	210		12	5.8	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Dibenz(a,h)anthracene	49		26	5.2	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Fluoranthene	170		26	5.1	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Fluorene	6.2	J	26	5.2	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Indeno[1,2,3-cd]pyrene	130		26	9.1	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
1-Methylnaphthalene	52		51	5.6	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
2-Methylnaphthalene	70		51	9.1	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Naphthalene	73		51	5.6	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Phenanthrene	100		10	5.0	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Pyrene	130		26	4.7	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	66		30 - 130	04/23/13 14:49	04/24/13 18:48	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-2
SDG: 68089459-2

Client Sample ID: CV1344A-CS

Lab Sample ID: 680-89459-23

Date Collected: 04/16/13 13:10

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Acenaphthylene	63	J	210	26	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Anthracene	99		44	22	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Benzo[a]anthracene	380		42	20	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Benzo[a]pyrene	230	J	55	27	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Benzo[b]fluoranthene	400		64	32	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Benzo[g,h,i]perylene	130		100	23	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Benzo[k]fluoranthene	150		42	19	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Chrysene	420		47	24	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Dibenz(a,h)anthracene	44	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Fluoranthene	550		100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Fluorene	26	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Indeno[1,2,3-cd]pyrene	110		100	37	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
1-Methylnaphthalene	240		210	23	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
2-Methylnaphthalene	94	J	210	37	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Naphthalene	71	J	210	23	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Phenanthrene	900	J	42	20	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Pyrene	440		100	19	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	54		30 - 130	04/19/13 15:35	04/23/13 21:38	4

Client Sample ID: CV1344A-CSD

Lab Sample ID: 680-89459-24

Date Collected: 04/16/13 13:10

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 76.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Acenaphthylene	51	J	210	26	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Anthracene	70		44	22	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Benzo[a]anthracene	260		42	20	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Benzo[a]pyrene	260	J	54	27	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Benzo[b]fluoranthene	480		63	32	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Benzo[g,h,i]perylene	180		100	23	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Benzo[k]fluoranthene	130		42	19	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Chrysene	380		47	23	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Dibenz(a,h)anthracene	58	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Fluoranthene	510		100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Fluorene	100	U	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Indeno[1,2,3-cd]pyrene	140		100	37	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
1-Methylnaphthalene	110	J	210	23	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
2-Methylnaphthalene	100	J	210	37	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Naphthalene	85	J	210	23	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Phenanthrene	310	J	42	20	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Pyrene	390		100	19	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	55		30 - 130	04/19/13 15:35	04/23/13 22:00	4

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

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-2
SDG: 68089459-2

Client Sample ID: CV1344B-CS

Lab Sample ID: 680-89459-25

Date Collected: 04/16/13 13:20

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Acenaphthylene	45	J	200	25	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Anthracene	110		41	21	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Benzo[a]anthracene	390		39	19	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Benzo[a]pyrene	370	J	51	25	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Benzo[b]fluoranthene	660		60	30	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Benzo[g,h,i]perylene	230		98	22	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Benzo[k]fluoranthene	220		39	18	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Chrysene	510		44	22	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Dibenz(a,h)anthracene	74	J	98	20	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Fluoranthene	700		98	20	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Fluorene	29	J	98	20	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Indeno[1,2,3-cd]pyrene	200		98	35	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
1-Methylnaphthalene	150	J	200	22	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
2-Methylnaphthalene	150	J	200	35	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Naphthalene	130	J	200	22	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Phenanthrene	460		39	19	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Pyrene	510		98	18	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	51		30 - 130	04/19/13 15:35	04/23/13 22:23	4

Client Sample ID: CV1344C-CS

Lab Sample ID: 680-89459-26

Date Collected: 04/16/13 13:34

Matrix: Solid

Date Received: 04/18/13 08:30

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	520	U	520	100	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Acenaphthylene	41	J	210	26	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Anthracene	110		43	22	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Benzo[a]anthracene	380		41	20	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Benzo[a]pyrene	340	J	54	27	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Benzo[b]fluoranthene	620		63	31	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Benzo[g,h,i]perylene	160		100	23	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Benzo[k]fluoranthene	190		41	19	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Chrysene	470		46	23	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Dibenz(a,h)anthracene	65	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Fluoranthene	740		100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Fluorene	38	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Indeno[1,2,3-cd]pyrene	150		100	37	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
1-Methylnaphthalene	130	J	210	23	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
2-Methylnaphthalene	130	J	210	37	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Naphthalene	100	J	210	23	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Phenanthrene	510		41	20	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Pyrene	500		100	19	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	38		30 - 130	04/19/13 15:35	04/23/13 22:45	4

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

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-2
SDG: 68089459-2

Client Sample ID: CV0313A-CS-SP

Lab Sample ID: 680-89459-27

Date Collected: 04/16/13 14:40

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Acenaphthylene	62		52	6.5	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Anthracene	89		11	5.5	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Benzo[a]anthracene	420		10	5.1	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Benzo[a]pyrene	540	J	14	6.8	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Benzo[b]fluoranthene	970		16	7.9	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Benzo[g,h,i]perylene	320		26	5.7	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Benzo[k]fluoranthene	330		10	4.7	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Chrysene	600		12	5.8	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Dibenz(a,h)anthracene	110		26	5.3	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Fluoranthene	680		26	5.2	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Fluorene	25	J	26	5.3	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Indeno[1,2,3-cd]pyrene	290		26	9.2	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
1-Methylnaphthalene	150		52	5.7	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
2-Methylnaphthalene	200		52	9.2	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Naphthalene	170		52	5.7	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Phenanthrene	410		10	5.1	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Pyrene	510		26	4.8	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	60		30 - 130	04/19/13 15:35	04/23/13 23:08	1

Client Sample ID: CV0313B-CS-SP

Lab Sample ID: 680-89459-28

Date Collected: 04/16/13 15:00

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 76.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Acenaphthylene	32	J	210	26	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Anthracene	54		44	22	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Benzo[a]anthracene	260		42	20	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Benzo[a]pyrene	280	J	54	27	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Benzo[b]fluoranthene	600		64	32	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Benzo[g,h,i]perylene	180		100	23	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Benzo[k]fluoranthene	160		42	19	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Chrysene	400		47	24	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Dibenz(a,h)anthracene	66	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Fluoranthene	420		100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Fluorene	21	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Indeno[1,2,3-cd]pyrene	160		100	37	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
1-Methylnaphthalene	130	J	210	23	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
2-Methylnaphthalene	250		210	37	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Naphthalene	240		210	23	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Phenanthrene	280		42	20	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Pyrene	270		100	19	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	52		30 - 130	04/19/13 15:35	04/23/13 23:30	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-2
SDG: 68089459-2

Client Sample ID: CV0423A-CS-SP

Lab Sample ID: 680-89459-29

Date Collected: 04/16/13 15:35

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Acenaphthylene	18	J	51	6.4	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Anthracene	33		11	5.4	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Benzo[a]anthracene	120		10	5.0	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Benzo[a]pyrene	120	J	13	6.6	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Benzo[b]fluoranthene	210		16	7.8	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Benzo[g,h,i]perylene	61		26	5.6	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Benzo[k]fluoranthene	72		10	4.6	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Chrysene	170		11	5.7	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Dibenz(a,h)anthracene	25	J	26	5.2	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Fluoranthene	190		26	5.1	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Fluorene	8.3	J	26	5.2	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Indeno[1,2,3-cd]pyrene	55		26	9.1	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
1-Methylnaphthalene	69		51	5.6	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
2-Methylnaphthalene	85		51	9.1	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Naphthalene	68		51	5.6	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Phenanthrene	150		10	5.0	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Pyrene	140		26	4.7	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	42		30 - 130	04/19/13 15:35	04/23/13 23:53	1

Client Sample ID: CV0423B-CS-SP

Lab Sample ID: 680-89459-30

Date Collected: 04/16/13 15:50

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 75.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Acenaphthylene	75		52	6.5	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Anthracene	89		11	5.5	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Benzo[a]anthracene	370		10	5.1	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Benzo[a]pyrene	400	J	14	6.8	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Benzo[b]fluoranthene	770		16	8.0	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Benzo[g,h,i]perylene	230		26	5.8	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Benzo[k]fluoranthene	280		10	4.7	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Chrysene	480		12	5.9	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Dibenz(a,h)anthracene	69		26	5.4	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Fluoranthene	810		26	5.2	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Fluorene	23	J	26	5.4	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Indeno[1,2,3-cd]pyrene	210		26	9.3	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
1-Methylnaphthalene	150		52	5.8	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
2-Methylnaphthalene	140		52	9.3	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Naphthalene	140		52	5.8	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Phenanthrene	420		10	5.1	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Pyrene	540		26	4.8	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	54		30 - 130	04/19/13 15:35	04/24/13 00:16	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-2
SDG: 68089459-2

Client Sample ID: CV1013A-CS-SP

Lab Sample ID: 680-89459-31

Date Collected: 04/16/13 13:45

Matrix: Solid

Date Received: 04/18/13 08:30

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	26	J	120	25	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Acenaphthylene	61		49	6.1	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Anthracene	48		10	5.2	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Benzo[a]anthracene	160		9.8	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Benzo[a]pyrene	160		13	6.4	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Benzo[b]fluoranthene	290		15	7.5	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Benzo[g,h,i]perylene	110		25	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Benzo[k]fluoranthene	130		9.8	4.4	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Chrysene	190		11	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Dibenz(a,h)anthracene	44		25	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Fluoranthene	270		25	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Fluorene	25	U	25	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Indeno[1,2,3-cd]pyrene	160		25	8.7	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
1-Methylnaphthalene	67		49	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
2-Methylnaphthalene	140		49	8.7	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Naphthalene	82		49	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Phenanthrene	180		9.8	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Pyrene	240		25	4.5	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	61		30 - 130				04/23/13 10:36	04/24/13 18:11	1

Client Sample ID: CV1013B-CS-SP

Lab Sample ID: 680-89459-32

Date Collected: 04/16/13 14:00

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 74.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	55	J	140	27	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Acenaphthylene	69		54	6.8	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Anthracene	89		11	5.7	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Benzo[a]anthracene	1100		11	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Benzo[a]pyrene	1400		14	7.0	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Benzo[b]fluoranthene	2900		17	8.3	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Benzo[g,h,i]perylene	1600		27	6.0	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Benzo[k]fluoranthene	930		11	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Chrysene	1300		12	6.1	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Dibenz(a,h)anthracene	550		27	5.6	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Fluoranthene	1100		27	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Fluorene	52		27	5.6	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Indeno[1,2,3-cd]pyrene	1100		27	9.6	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
1-Methylnaphthalene	56		54	6.0	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
2-Methylnaphthalene	110		54	9.6	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Naphthalene	83		54	6.0	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Phenanthrene	590		11	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Pyrene	1100		27	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	65		30 - 130				04/23/13 10:36	04/24/13 18:29	1

TestAmerica Savannah

ANALYTICAL REPORT

Job Number: 680-89459-2

SDG Number: 68089459-2

Job Description: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC

1220 Kennestone Circle

Suite 106

Marietta, GA 30060

Attention: Ms. Limari F Krebs



Approved for release.
Bernard Kirkland
Project Manager I
4/29/2013 4:50 PM

Designee for

Lisa Harvey

Project Manager II

lisa.harvey@testamericainc.com

04/29/2013

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

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89459-2

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

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

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

RECEIPT

The samples were received on 04/18/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1219A-CSD (680-89459-21), CV1219B-CS (680-89459-22), CV1344A-CS (680-89459-23), CV1344A-CSD (680-89459-24), CV1344B-CS (680-89459-25), CV1344C-CS (680-89459-26), CV0313A-CS-SP (680-89459-27), CV0313B-CS-SP (680-89459-28), CV0423A-CS-SP (680-89459-29), CV0423B-CS-SP (680-89459-30), CV1013A-CS-SP (680-89459-31) and CV1013B-CS-SP (680-89459-32) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/19/2013 and 04/23/2013 and analyzed on 04/23/2013 and 04/24/2013.

Samples CV1344A-CS (680-89459-23)[4X], CV1344A-CSD (680-89459-24)[4X], CV1344B-CS (680-89459-25)[4X], CV1344C-CS (680-89459-26)[4X] and CV0313B-CS-SP (680-89459-28)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Benzo(a)pyrene recovered outside the recovery criteria for the MS of sample 680-89328-25 in batch 660-136756.

Several analytes recovered outside the recovery criteria high for the MSD of sample 680-89421-1 in batch 660-136792.

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: 680-89459-2

Sdg Number: 68089459-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-89459-21	CV1219A-CSD	Solid	04/16/2013 1350	04/18/2013 0830
680-89459-22	CV1219B-CS	Solid	04/16/2013 1400	04/18/2013 0830
680-89459-22MS	CV1219B-CS	Solid	04/16/2013 1400	04/18/2013 0830
680-89459-22MSD	CV1219B-CS	Solid	04/16/2013 1400	04/18/2013 0830
680-89459-23	CV1344A-CS	Solid	04/16/2013 1310	04/18/2013 0830
680-89459-24	CV1344A-CSD	Solid	04/16/2013 1310	04/18/2013 0830
680-89459-25	CV1344B-CS	Solid	04/16/2013 1320	04/18/2013 0830
680-89459-26	CV1344C-CS	Solid	04/16/2013 1334	04/18/2013 0830
680-89459-27	CV0313A-CS-SP	Solid	04/16/2013 1440	04/18/2013 0830
680-89459-28	CV0313B-CS-SP	Solid	04/16/2013 1500	04/18/2013 0830
680-89459-29	CV0423A-CS-SP	Solid	04/16/2013 1535	04/18/2013 0830
680-89459-30	CV0423B-CS-SP	Solid	04/16/2013 1550	04/18/2013 0830
680-89459-31	CV1013A-CS-SP	Solid	04/16/2013 1345	04/18/2013 0830
680-89459-32	CV1013B-CS-SP	Solid	04/16/2013 1400	04/18/2013 0830

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89459-2

Sdg Number: 68089459-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
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: 680-89459-2

Sdg Number: 68089459-2

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

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89459-2

Sdg Number: 68089459-2

Lab Section	Qualifier	Description
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.

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89459-2

Sdg Number: 68089459-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-136660					
LCS 660-136660/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136660/1-A	Method Blank	T	Solid	3546	
680-89328-A-25-B MS	Matrix Spike	T	Solid	3546	
680-89328-A-25-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-89459-21	CV1219A-CSD	T	Solid	3546	
680-89459-23	CV1344A-CS	T	Solid	3546	
680-89459-24	CV1344A-CSD	T	Solid	3546	
680-89459-25	CV1344B-CS	T	Solid	3546	
680-89459-26	CV1344C-CS	T	Solid	3546	
680-89459-27	CV0313A-CS-SP	T	Solid	3546	
680-89459-28	CV0313B-CS-SP	T	Solid	3546	
680-89459-29	CV0423A-CS-SP	T	Solid	3546	
680-89459-30	CV0423B-CS-SP	T	Solid	3546	
Prep Batch: 660-136731					
LCS 660-136731/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136731/1-A	Method Blank	T	Solid	3546	
680-89421-A-1-B MS	Matrix Spike	T	Solid	3546	
680-89421-A-1-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-89459-31	CV1013A-CS-SP	T	Solid	3546	
680-89459-32	CV1013B-CS-SP	T	Solid	3546	
Prep Batch: 660-136752					
LCS 660-136752/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136752/1-A	Method Blank	T	Solid	3546	
680-89459-22	CV1219B-CS	T	Solid	3546	
680-89459-22MS	Matrix Spike	T	Solid	3546	
680-89459-22MSD	Matrix Spike Duplicate	T	Solid	3546	
Analysis Batch:660-136756					
LCS 660-136660/2-A	Lab Control Sample	T	Solid	8270C LL	660-136660
MB 660-136660/1-A	Method Blank	T	Solid	8270C LL	660-136660
680-89328-A-25-B MS	Matrix Spike	T	Solid	8270C LL	660-136660
680-89328-A-25-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136660
680-89459-21	CV1219A-CSD	T	Solid	8270C LL	660-136660
680-89459-23	CV1344A-CS	T	Solid	8270C LL	660-136660
680-89459-24	CV1344A-CSD	T	Solid	8270C LL	660-136660
680-89459-25	CV1344B-CS	T	Solid	8270C LL	660-136660
680-89459-26	CV1344C-CS	T	Solid	8270C LL	660-136660
680-89459-27	CV0313A-CS-SP	T	Solid	8270C LL	660-136660
680-89459-28	CV0313B-CS-SP	T	Solid	8270C LL	660-136660
680-89459-29	CV0423A-CS-SP	T	Solid	8270C LL	660-136660
680-89459-30	CV0423B-CS-SP	T	Solid	8270C LL	660-136660

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89459-2

Sdg Number: 68089459-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-136792					
LCS 660-136731/2-A	Lab Control Sample	T	Solid	8270C LL	660-136731
MB 660-136731/1-A	Method Blank	T	Solid	8270C LL	660-136731
680-89421-A-1-B MS	Matrix Spike	T	Solid	8270C LL	660-136731
680-89421-A-1-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136731
680-89459-31	CV1013A-CS-SP	T	Solid	8270C LL	660-136731
680-89459-32	CV1013B-CS-SP	T	Solid	8270C LL	660-136731
Analysis Batch:660-136826					
LCS 660-136752/2-A	Lab Control Sample	T	Solid	8270C LL	660-136752
MB 660-136752/1-A	Method Blank	T	Solid	8270C LL	660-136752
680-89459-22	CV1219B-CS	T	Solid	8270C LL	660-136752
680-89459-22MS	Matrix Spike	T	Solid	8270C LL	660-136752
680-89459-22MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136752

Report Basis

T = Total

General Chemistry

Analysis Batch:660-136617					
680-89459-A-12 MS	Matrix Spike	T	Solid	Moisture	
680-89459-A-12 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-89459-21	CV1219A-CSD	T	Solid	Moisture	
680-89459-22	CV1219B-CS	T	Solid	Moisture	
680-89459-22MS	Matrix Spike	T	Solid	Moisture	
680-89459-22MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-89459-23	CV1344A-CS	T	Solid	Moisture	
680-89459-24	CV1344A-CSD	T	Solid	Moisture	
680-89459-25	CV1344B-CS	T	Solid	Moisture	
680-89459-26	CV1344C-CS	T	Solid	Moisture	
680-89459-27	CV0313A-CS-SP	T	Solid	Moisture	
680-89459-28	CV0313B-CS-SP	T	Solid	Moisture	
680-89459-29	CV0423A-CS-SP	T	Solid	Moisture	
680-89459-30	CV0423B-CS-SP	T	Solid	Moisture	
680-89459-31	CV1013A-CS-SP	T	Solid	Moisture	
680-89459-32	CV1013B-CS-SP	T	Solid	Moisture	

Report Basis

T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89459-2SDG No.: 68089459-2Instrument ID: BSMC5973 Analysis Batch Number: 136792Lab Sample ID: ICIS 660-136792/8 Client Sample ID: _____Date Analyzed: 04/24/13 13:57 Lab File ID: 1CD24007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.84	Split Peak	cantins	04/24/13 16:00

Lab Sample ID: IC 660-136792/9 Client Sample ID: _____Date Analyzed: 04/24/13 14:16 Lab File ID: 1CD24008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	5.82	Analyte not Identified by the Data System	cantins	04/24/13 16:05
Indeno[1,2,3-cd]pyrene	9.82	Baseline Event	cantins	04/24/13 16:07
Dibenz(a,h)anthracene	9.83	Baseline Event	cantins	04/24/13 16:07
Benzo[g,h,i]perylene	10.16	Baseline Event	cantins	04/24/13 16:07

Lab Sample ID: IC 660-136792/10 Client Sample ID: _____Date Analyzed: 04/24/13 14:34 Lab File ID: 1CD24009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluorene	5.06	Analyte not Identified by the Data System	cantins	04/24/13 16:14
Indeno[1,2,3-cd]pyrene	9.83	Baseline Event	cantins	04/24/13 16:14
Dibenz(a,h)anthracene	9.85	Baseline Event	cantins	04/24/13 16:14
Benzo[g,h,i]perylene	10.16	Baseline Event	cantins	04/24/13 16:14

Lab Sample ID: IC 660-136792/11 Client Sample ID: _____Date Analyzed: 04/24/13 14:52 Lab File ID: 1CD24010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.82	Split Peak	cantins	04/24/13 16:20

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89459-2SDG No.: 68089459-2Instrument ID: BSMC5973 Analysis Batch Number: 136792Lab Sample ID: IC 660-136792/12 Client Sample ID: _____Date Analyzed: 04/24/13 15:11 Lab File ID: 1CD24011.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.82	Split Peak	cantins	04/24/13 16:21
Benzo[g,h,i]perylene	10.16	Baseline Event	cantins	04/24/13 16:20

Lab Sample ID: IC 660-136792/13 Client Sample ID: _____Date Analyzed: 04/24/13 15:29 Lab File ID: 1CD24012.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.82	Split Peak	cantins	04/24/13 16:21

Lab Sample ID: IC 660-136792/14 Client Sample ID: _____Date Analyzed: 04/24/13 15:47 Lab File ID: 1CD24013.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.83	Split Peak	cantins	04/24/13 16:22

Lab Sample ID: ICV 660-136792/15 Client Sample ID: _____Date Analyzed: 04/24/13 16:06 Lab File ID: 1CD24014.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.82	Split Peak	cantins	04/24/13 16:35

Lab Sample ID: LCS 660-136731/2-A Client Sample ID: _____Date Analyzed: 04/24/13 16:58 Lab File ID: 1CD24016.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.83	Split Peak	cantins	04/25/13 11:21

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89459-2SDG No.: 68089459-2Instrument ID: BSMC5973 Analysis Batch Number: 136792Lab Sample ID: 680-89421-A-1-B MS Client Sample ID: _____Date Analyzed: 04/24/13 17:34 Lab File ID: 1CD24018.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.83	Baseline Event	cantins	04/25/13 11:33

Lab Sample ID: 680-89421-A-1-C MSD Client Sample ID: _____Date Analyzed: 04/24/13 17:52 Lab File ID: 1CD24019.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.83	Split Peak	cantins	04/25/13 11:34
Benzo[g,h,i]perylene	10.16	Baseline Event	cantins	04/25/13 11:33

Lab Sample ID: 680-89459-31 Client Sample ID: CV1013A-CS-SPDate Analyzed: 04/24/13 18:11 Lab File ID: 1CD24020.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.41	Split Peak	cantins	04/25/13 11:38
Benzo[k]fluoranthene	8.42	Baseline Event	cantins	04/25/13 11:38
Indeno[1,2,3-cd]pyrene	9.83	Split Peak	cantins	04/25/13 11:39
Dibenz(a,h)anthracene	9.84	Baseline Event	cantins	04/25/13 11:39

Lab Sample ID: 680-89459-32 Client Sample ID: CV1013B-CS-SPDate Analyzed: 04/24/13 18:29 Lab File ID: 1CD24021.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.41	Split Peak	cantins	04/25/13 11:41
Benzo[k]fluoranthene	8.43	Baseline Event	cantins	04/25/13 11:41
Indeno[1,2,3-cd]pyrene	9.83	Split Peak	cantins	04/25/13 11:41

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89459-2SDG No.: 68089459-2Instrument ID: BSMD5973 Analysis Batch Number: 136164Lab Sample ID: IC 660-136164/15 Client Sample ID: _____Date Analyzed: 04/04/13 13:49 Lab File ID: 1DD04007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.73	Split Peak	cantins	04/05/13 12:28
Dibenz(a,h)anthracene	14.76	Baseline Event	cantins	04/05/13 12:28

Lab Sample ID: IC 660-136164/16 Client Sample ID: _____Date Analyzed: 04/04/13 14:11 Lab File ID: 1DD04008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.73	Split Peak	cantins	04/05/13 12:29
Dibenz(a,h)anthracene	14.76	Baseline Event	cantins	04/05/13 12:28

Lab Sample ID: IC 660-136164/17 Client Sample ID: _____Date Analyzed: 04/04/13 14:34 Lab File ID: 1DD04009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.74	Split Peak	cantins	04/05/13 12:29

Lab Sample ID: IC 660-136164/18 Client Sample ID: _____Date Analyzed: 04/04/13 14:57 Lab File ID: 1DD04010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.75	Split Peak	cantins	04/05/13 12:30

Lab Sample ID: ICIS 660-136164/19 Client Sample ID: _____Date Analyzed: 04/04/13 15:19 Lab File ID: 1DD04011.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.76	Split Peak	cantins	04/05/13 12:26

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89459-2SDG No.: 68089459-2Instrument ID: BSMD5973 Analysis Batch Number: 136164Lab Sample ID: IC 660-136164/20 Client Sample ID: _____Date Analyzed: 04/04/13 15:42 Lab File ID: 1DD04012.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.77	Split Peak	cantins	04/05/13 12:30

Lab Sample ID: IC 660-136164/21 Client Sample ID: _____Date Analyzed: 04/04/13 16:04 Lab File ID: 1DD04013.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.79	Split Peak	cantins	04/05/13 12:30

Lab Sample ID: ICV 660-136164/22 Client Sample ID: _____Date Analyzed: 04/04/13 16:27 Lab File ID: 1DD04014.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	9.23	Baseline Event	cantins	04/05/13 13:08
Indeno[1,2,3-cd]pyrene	14.76	Split Peak	cantins	04/05/13 13:09

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89459-2SDG No.: 68089459-2Instrument ID: BSMD5973 Analysis Batch Number: 136756Lab Sample ID: CCVIS 660-136756/4 Client Sample ID: _____Date Analyzed: 04/23/13 13:06 Lab File ID: 1DD23004.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.71	Split Peak	cantins	04/23/13 14:48

Lab Sample ID: LCS 660-136660/2-A Client Sample ID: _____Date Analyzed: 04/23/13 15:59 Lab File ID: 1DD23009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.70	Split Peak	cantins	04/24/13 12:58

Lab Sample ID: 680-89328-A-25-B MS Client Sample ID: _____Date Analyzed: 04/23/13 16:44 Lab File ID: 1DD23011.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.69	Split Peak	cantins	04/24/13 12:59

Lab Sample ID: 680-89328-A-25-C MSD Client Sample ID: _____Date Analyzed: 04/23/13 17:07 Lab File ID: 1DD23012.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.70	Split Peak	cantins	04/24/13 13:00

Lab Sample ID: 680-89459-21 Client Sample ID: CV1219A-CSDDate Analyzed: 04/23/13 21:15 Lab File ID: 1DD23023.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.73	Split Peak	cantins	04/24/13 13:22

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89459-2SDG No.: 68089459-2Instrument ID: BSMD5973 Analysis Batch Number: 136756Lab Sample ID: 680-89459-23 Client Sample ID: CV1344A-CSDate Analyzed: 04/23/13 21:38 Lab File ID: 1DD23024.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.72	Split Peak	cantins	04/24/13 13:23

Lab Sample ID: 680-89459-24 Client Sample ID: CV1344A-CSDDate Analyzed: 04/23/13 22:00 Lab File ID: 1DD23025.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.70	Split Peak	cantins	04/24/13 13:24

Lab Sample ID: 680-89459-25 Client Sample ID: CV1344B-CSDate Analyzed: 04/23/13 22:23 Lab File ID: 1DD23026.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.71	Split Peak	cantins	04/24/13 13:24

Lab Sample ID: 680-89459-26 Client Sample ID: CV1344C-CSDate Analyzed: 04/23/13 22:45 Lab File ID: 1DD23027.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.71	Split Peak	cantins	04/24/13 13:25

Lab Sample ID: 680-89459-27 Client Sample ID: CV0313A-CS-SPDate Analyzed: 04/23/13 23:08 Lab File ID: 1DD23028.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.73	Split Peak	cantins	04/24/13 13:26

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89459-2SDG No.: 68089459-2Instrument ID: BSMD5973 Analysis Batch Number: 136756Lab Sample ID: 680-89459-28 Client Sample ID: CV0313B-CS-SPDate Analyzed: 04/23/13 23:30 Lab File ID: 1DD23029.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.71	Split Peak	cantins	04/24/13 13:28

Lab Sample ID: 680-89459-29 Client Sample ID: CV0423A-CS-SPDate Analyzed: 04/23/13 23:53 Lab File ID: 1DD23030.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.71	Split Peak	cantins	04/24/13 13:29

Lab Sample ID: 680-89459-30 Client Sample ID: CV0423B-CS-SPDate Analyzed: 04/24/13 00:16 Lab File ID: 1DD23031.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.73	Split Peak	cantins	04/24/13 13:30

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89459-2SDG No.: 68089459-2Instrument ID: BSMD5973 Analysis Batch Number: 136826Lab Sample ID: CCVIS 660-136826/3 Client Sample ID: _____Date Analyzed: 04/24/13 12:46 Lab File ID: 1DD24003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.71	Split Peak	cantins	04/24/13 13:06

Lab Sample ID: MB 660-136752/1-A Client Sample ID: _____Date Analyzed: 04/24/13 16:55 Lab File ID: 1DD24014.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Phenanthrene	9.01	Baseline Event	cantins	04/25/13 13:09

Lab Sample ID: LCS 660-136752/2-A Client Sample ID: _____Date Analyzed: 04/24/13 17:18 Lab File ID: 1DD24015.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.69	Split Peak	cantins	04/25/13 13:10

Lab Sample ID: 680-89459-22 Client Sample ID: CV1219B-CSDate Analyzed: 04/24/13 18:48 Lab File ID: 1DD24019.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.70	Split Peak	cantins	04/25/13 13:13
Benzo[g,h,i]perylene	15.14	Baseline Event	cantins	04/25/13 13:13

Lab Sample ID: 680-89459-22 MS Client Sample ID: CV1219B-CS MSDate Analyzed: 04/24/13 19:10 Lab File ID: 1DD24020.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.71	Split Peak	cantins	04/25/13 13:14

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89459-2SDG No.: 68089459-2Instrument ID: BSMD5973 Analysis Batch Number: 136826Lab Sample ID: 680-89459-22 MSD Client Sample ID: CV1219B-CS MSDDate Analyzed: 04/24/13 19:33 Lab File ID: 1DD24021.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.72	Split Peak	cantins	04/25/13 13:14

Method 8270C Low Level

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

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa

Job No.: 680-89459-2

SDG No.: 68089459-2

Matrix: Solid

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV1219A-CSD	680-89459-21	46
CV1219B-CS	680-89459-22	66
CV1344A-CS	680-89459-23	54
CV1344A-CSD	680-89459-24	55
CV1344B-CS	680-89459-25	51
CV1344C-CS	680-89459-26	38
CV0313A-CS-SP	680-89459-27	60
CV0313B-CS-SP	680-89459-28	52
CV0423A-CS-SP	680-89459-29	42
CV0423B-CS-SP	680-89459-30	54
CV1013A-CS-SP	680-89459-31	61
CV1013B-CS-SP	680-89459-32	65
	MB 660-136660/1-A	64
	MB 660-136731/1-A	82
	MB 660-136752/1-A	62
	LCS 660-136660/2-A	64
	LCS 660-136731/2-A	83
	LCS 660-136752/2-A	75
	680-89328-A-25-B MS	49
	680-89421-A-1-B MS	75
CV1219B-CS MS	680-89459-22 MS	64
	680-89328-A-25-C MSD	58
	680-89421-A-1-C MSD	85
CV1219B-CS MSD	680-89459-22 MSD	76

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.: 680-89459-2
 SDG No.: 68089459-2
 Matrix: Solid Level: Low Lab File ID: 1DD23009.D
 Lab ID: LCS 660-136660/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	653	327	50	39-130	
Acenaphthylene	653	342	52	38-130	
Anthracene	653	420	64	37-130	
Benzo[a]anthracene	653	459	70	40-130	
Benzo[a]pyrene	653	419	64	49-130	
Benzo[b]fluoranthene	653	469	72	37-130	
Benzo[g,h,i]perylene	653	529	81	32-130	
Benzo[k]fluoranthene	653	444	68	32-130	
Chrysene	653	445	68	41-130	
Dibenz(a,h)anthracene	653	528	81	27-130	
Fluoranthene	653	453	69	40-130	
Fluorene	653	382	59	40-130	
Indeno[1,2,3-cd]pyrene	653	514	79	30-130	
1-Methylnaphthalene	653	279	43	31-130	
2-Methylnaphthalene	653	272	42	33-130	
Naphthalene	653	245	38	36-130	
Phenanthrene	653	420	64	42-130	
Pyrene	653	445	68	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89459-2
 SDG No.: 68089459-2
 Matrix: Solid Level: Low Lab File ID: 1CD24016.D
 Lab ID: LCS 660-136731/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	668	523	78	39-130	
Acenaphthylene	668	506	76	38-130	
Anthracene	668	577	86	37-130	
Benzo[a]anthracene	668	787	118	40-130	
Benzo[a]pyrene	668	499	75	49-130	
Benzo[b]fluoranthene	668	562	84	37-130	
Benzo[g,h,i]perylene	668	542	81	32-130	
Benzo[k]fluoranthene	668	662	99	32-130	
Chrysene	668	567	85	41-130	
Dibenz(a,h)anthracene	668	631	94	27-130	
Fluoranthene	668	617	92	40-130	
Fluorene	668	597	89	40-130	
Indeno[1,2,3-cd]pyrene	668	574	86	30-130	
1-Methylnaphthalene	668	546	82	31-130	
2-Methylnaphthalene	668	521	78	33-130	
Naphthalene	668	612	91	36-130	
Phenanthrene	668	653	98	42-130	
Pyrene	668	571	85	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.: 680-89459-2
 SDG No.: 68089459-2
 Matrix: Solid Level: Low Lab File ID: 1DD24015.D
 Lab ID: LCS 660-136752/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	657	486	74	39-130	
Acenaphthylene	657	507	77	38-130	
Anthracene	657	496	75	37-130	
Benzo[a]anthracene	657	547	83	40-130	
Benzo[a]pyrene	657	494	75	49-130	
Benzo[b]fluoranthene	657	577	88	37-130	
Benzo[g,h,i]perylene	657	548	83	32-130	
Benzo[k]fluoranthene	657	542	83	32-130	
Chrysene	657	513	78	41-130	
Dibenz(a,h)anthracene	657	574	87	27-130	
Fluoranthene	657	534	81	40-130	
Fluorene	657	528	80	40-130	
Indeno[1,2,3-cd]pyrene	657	535	81	30-130	
1-Methylnaphthalene	657	503	77	31-130	
2-Methylnaphthalene	657	498	76	33-130	
Naphthalene	657	478	73	36-130	
Phenanthrene	657	485	74	42-130	
Pyrene	657	518	79	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89459-2
 SDG No.: 68089459-2
 Matrix: Solid Level: Low Lab File ID: 1DD23011.D
 Lab ID: 680-89328-A-25-B MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	864	520 U	410 J	47	39-130	
Acenaphthylene	864	40 J	460	49	38-130	
Anthracene	864	52	459	47	37-130	
Benzo[a]anthracene	864	230	685	53	40-130	
Benzo[a]pyrene	864	210	586	44	49-130	F
Benzo[b]fluoranthene	864	340	715	43	37-130	
Benzo[g,h,i]perylene	864	200	703	58	32-130	
Benzo[k]fluoranthene	864	100	540	51	32-130	
Chrysene	864	340	710	43	41-130	
Dibenz(a,h)anthracene	864	54 J	573	60	27-130	
Fluoranthene	864	350	734	44	40-130	
Fluorene	864	26 J	454	50	40-130	
Indeno[1,2,3-cd]pyrene	864	150	638	56	30-130	
1-Methylnaphthalene	864	220	543	37	31-130	
2-Methylnaphthalene	864	220	568	41	33-130	
Naphthalene	864	130 J	454	37	36-130	
Phenanthrene	864	340	700	42	42-130	
Pyrene	864	300	695	45	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.: 680-89459-2
 SDG No.: 68089459-2
 Matrix: Solid Level: Low Lab File ID: 1CD24018.D
 Lab ID: 680-89421-A-1-B MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	868	520 U	648	75	39-130	
Acenaphthylene	868	210 U	637	73	38-130	
Anthracene	868	160	637	54	37-130	
Benzo[a]anthracene	868	720	1260	62	40-130	
Benzo[a]pyrene	868	420	940	60	49-130	
Benzo[b]fluoranthene	868	700	1430	84	37-130	
Benzo[g,h,i]perylene	868	380	953	66	32-130	
Benzo[k]fluoranthene	868	130	972	97	32-130	
Chrysene	868	480	1430	110	41-130	
Dibenz(a,h)anthracene	868	73 J	778	81	27-130	
Fluoranthene	868	500	1430	107	40-130	
Fluorene	868	100 U	588	68	40-130	
Indeno[1,2,3-cd]pyrene	868	420	820	46	30-130	
1-Methylnaphthalene	868	230	1000	89	31-130	
2-Methylnaphthalene	868	470	1270	92	33-130	
Naphthalene	868	300	1010	82	36-130	
Phenanthrene	868	540	1490	110	42-130	
Pyrene	868	590	1170	66	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.: 680-89459-2
 SDG No.: 68089459-2
 Matrix: Solid Level: Low Lab File ID: 1DD24020.D
 Lab ID: 680-89459-22 MS Client ID: CV1219B-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	852	130 U	531	62	39-130	
Acenaphthylene	852	9.5 J	558	64	38-130	
Anthracene	852	27	578	65	37-130	
Benzo[a]anthracene	852	140	706	67	40-130	
Benzo[a]pyrene	852	200	697	58	49-130	
Benzo[b]fluoranthene	852	350	906	65	37-130	
Benzo[g,h,i]perylene	852	150	530	45	32-130	
Benzo[k]fluoranthene	852	110	721	71	32-130	
Chrysene	852	210	733	61	41-130	
Dibenz(a,h)anthracene	852	49	551	59	27-130	
Fluoranthene	852	170	751	69	40-130	
Fluorene	852	6.2 J	584	68	40-130	
Indeno[1,2,3-cd]pyrene	852	130	561	50	30-130	
1-Methylnaphthalene	852	52	605	65	31-130	
2-Methylnaphthalene	852	70	618	64	33-130	
Naphthalene	852	73	589	60	36-130	
Phenanthrene	852	100	650	64	42-130	
Pyrene	852	130	637	59	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.: 680-89459-2
 SDG No.: 68089459-2
 Matrix: Solid Level: Low Lab File ID: 1DD23012.D
 Lab ID: 680-89328-A-25-C MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	864	506 J	59	21	40	39-130	
Acenaphthylene	864	570	61	21	40	38-130	
Anthracene	864	567	60	21	40	37-130	
Benzo[a]anthracene	864	812	67	17	40	40-130	
Benzo[a]pyrene	864	724	60	21	40	49-130	
Benzo[b]fluoranthene	864	945	70	28	40	37-130	
Benzo[g,h,i]perylene	864	823	72	16	40	32-130	
Benzo[k]fluoranthene	864	636	62	16	40	32-130	
Chrysene	864	910	66	25	40	41-130	
Dibenz(a,h)anthracene	864	706	76	21	40	27-130	
Fluoranthene	864	930	67	23	40	40-130	
Fluorene	864	550	61	19	40	40-130	
Indeno[1,2,3-cd]pyrene	864	771	72	19	40	30-130	
1-Methylnaphthalene	864	651	50	18	40	31-130	
2-Methylnaphthalene	864	673	53	17	40	33-130	
Naphthalene	864	586	53	25	40	36-130	
Phenanthrene	864	865	61	21	40	42-130	
Pyrene	864	876	66	23	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.: 680-89459-2
 SDG No.: 68089459-2
 Matrix: Solid Level: Low Lab File ID: 1CD24019.D
 Lab ID: 680-89421-A-1-C MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	866	543	63	18	40	39-130	
Acenaphthylene	866	662	76	4	40	38-130	
Anthracene	866	660	57	4	40	37-130	
Benzo[a]anthracene	866	1270	64	1	40	40-130	
Benzo[a]pyrene	866	1100	79	16	40	49-130	
Benzo[b]fluoranthene	866	1290	69	10	40	37-130	
Benzo[g,h,i]perylene	866	868	56	9	40	32-130	
Benzo[k]fluoranthene	866	1030	104	6	40	32-130	
Chrysene	866	1290	94	10	40	41-130	
Dibenz(a,h)anthracene	866	665	68	16	40	27-130	
Fluoranthene	866	1700	139	17	40	40-130	F
Fluorene	866	800	92	30	40	40-130	
Indeno[1,2,3-cd]pyrene	866	852	50	4	40	30-130	
1-Methylnaphthalene	866	1200	112	18	40	31-130	
2-Methylnaphthalene	866	1300	95	2	40	33-130	
Naphthalene	866	1020	83	1	40	36-130	
Phenanthrene	866	1750	139	16	40	42-130	F
Pyrene	866	1470	102	23	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.: 680-89459-2
 SDG No.: 68089459-2
 Matrix: Solid Level: Low Lab File ID: 1DD24021.D
 Lab ID: 680-89459-22 MSD Client ID: CV1219B-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	852	624	73	16	40	39-130	
Acenaphthylene	852	666	77	18	40	38-130	
Anthracene	852	691	78	18	40	37-130	
Benzo[a]anthracene	852	855	84	19	40	40-130	
Benzo[a]pyrene	852	827	74	17	40	49-130	
Benzo[b]fluoranthene	852	1150	94	24	40	37-130	
Benzo[g,h,i]perylene	852	619	55	16	40	32-130	
Benzo[k]fluoranthene	852	835	85	15	40	32-130	
Chrysene	852	833	73	13	40	41-130	
Dibenz(a,h)anthracene	852	638	69	15	40	27-130	
Fluoranthene	852	883	84	16	40	40-130	
Fluorene	852	682	79	15	40	40-130	
Indeno[1,2,3-cd]pyrene	852	647	60	14	40	30-130	
1-Methylnaphthalene	852	708	77	16	40	31-130	
2-Methylnaphthalene	852	705	75	13	40	33-130	
Naphthalene	852	690	72	16	40	36-130	
Phenanthrene	852	759	77	15	40	42-130	
Pyrene	852	734	70	14	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.: 680-89459-2
SDG No.: 68089459-2
Lab File ID: 1DD23008.D Lab Sample ID: MB 660-136660/1-A
Matrix: Solid Date Extracted: 04/19/2013 15:35
Instrument ID: BSMD5973 Date Analyzed: 04/23/2013 15:37
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136660/2-A	1DD23009.D	04/23/2013 15:59
	680-89328-A-25-B MS	1DD23011.D	04/23/2013 16:44
	680-89328-A-25-C MSD	1DD23012.D	04/23/2013 17:07
CV1219A-CSD	680-89459-21	1DD23023.D	04/23/2013 21:15
CV1344A-CS	680-89459-23	1DD23024.D	04/23/2013 21:38
CV1344A-CSD	680-89459-24	1DD23025.D	04/23/2013 22:00
CV1344B-CS	680-89459-25	1DD23026.D	04/23/2013 22:23
CV1344C-CS	680-89459-26	1DD23027.D	04/23/2013 22:45
CV0313A-CS-SP	680-89459-27	1DD23028.D	04/23/2013 23:08
CV0313B-CS-SP	680-89459-28	1DD23029.D	04/23/2013 23:30
CV0423A-CS-SP	680-89459-29	1DD23030.D	04/23/2013 23:53
CV0423B-CS-SP	680-89459-30	1DD23031.D	04/24/2013 00:16

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89459-2
SDG No.: 68089459-2
Lab File ID: 1CD24015.D Lab Sample ID: MB 660-136731/1-A
Matrix: Solid Date Extracted: 04/23/2013 10:36
Instrument ID: BSMC5973 Date Analyzed: 04/24/2013 16:40
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136731/2-A	1CD24016.D	04/24/2013 16:58
	680-89421-A-1-B MS	1CD24018.D	04/24/2013 17:34
	680-89421-A-1-C MSD	1CD24019.D	04/24/2013 17:52
CV1013A-CS-SP	680-89459-31	1CD24020.D	04/24/2013 18:11
CV1013B-CS-SP	680-89459-32	1CD24021.D	04/24/2013 18:29

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89459-2
SDG No.: 68089459-2
Lab File ID: 1DD24014.D Lab Sample ID: MB 660-136752/1-A
Matrix: Solid Date Extracted: 04/23/2013 14:49
Instrument ID: BSMD5973 Date Analyzed: 04/24/2013 16:55
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136752/2-A	1DD24015.D	04/24/2013 17:18
CV1219B-CS	680-89459-22	1DD24019.D	04/24/2013 18:48
CV1219B-CS MS	680-89459-22 MS	1DD24020.D	04/24/2013 19:10
CV1219B-CS MSD	680-89459-22 MSD	1DD24021.D	04/24/2013 19:33

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

Lab Name: TestAmerica Tampa Job No.: 680-89459-2
SDG No.: 68089459-2
Lab File ID: 1CD24006.D DFTPP Injection Date: 04/24/2013
Instrument ID: BSMC5973 DFTPP Injection Time: 13:40
Analysis Batch No.: 136792

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	71.7
68	Less than 2.0 % of mass 69	1.1 (1.5)1
69	Mass 69 relative abundance	73.2
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 198	59.5
197	Less than 2.0 % of mass 198	1.9
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.8
275	10.0 - 60.0 % of mass 198	22.9
365	Greater than 1.0 % of mass 198	7.3
441	Present but less than mass 443	10.3
442	Greater than 50.0 % of mass 198	58.7
443	15.0 - 24.0 % of mass 442	11.7 (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
	ICIS 660-136792/8	1CD24007.D	04/24/2013	13:57
	IC 660-136792/9	1CD24008.D	04/24/2013	14:16
	IC 660-136792/10	1CD24009.D	04/24/2013	14:34
	IC 660-136792/11	1CD24010.D	04/24/2013	14:52
	IC 660-136792/12	1CD24011.D	04/24/2013	15:11
	IC 660-136792/13	1CD24012.D	04/24/2013	15:29
	IC 660-136792/14	1CD24013.D	04/24/2013	15:47
	ICV 660-136792/15	1CD24014.D	04/24/2013	16:06
	MB 660-136731/1-A	1CD24015.D	04/24/2013	16:40
	LCS 660-136731/2-A	1CD24016.D	04/24/2013	16:58
	680-89421-A-1-B MS	1CD24018.D	04/24/2013	17:34
	680-89421-A-1-C MSD	1CD24019.D	04/24/2013	17:52
CV1013A-CS-SP	680-89459-31	1CD24020.D	04/24/2013	18:11
CV1013B-CS-SP	680-89459-32	1CD24021.D	04/24/2013	18:29

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

Lab Name: TestAmerica Tampa Job No.: 680-89459-2
SDG No.: 68089459-2
Lab File ID: 1DD04003.D DFTPP Injection Date: 04/04/2013
Instrument ID: BSMD5973 DFTPP Injection Time: 12:15
Analysis Batch No.: 136164

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	44.9
68	Less than 2.0 % of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	45.4
70	Less than 2.0 % of mass 69	0.2 (0.3) 1
127	10.0 - 80.0 % of mass 198	50.5
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.9
275	10.0 - 60.0 % of mass 198	26.7
365	Greater than 1.0 % of mass 198	3.1
441	Present but less than mass 443	3.3
442	Greater than 50.0 % of mass 198	67.1
443	15.0 - 24.0 % of mass 442	13.9 (20.6) 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 660-136164/15	1DD04007.D	04/04/2013	13:49
	IC 660-136164/16	1DD04008.D	04/04/2013	14:11
	IC 660-136164/17	1DD04009.D	04/04/2013	14:34
	IC 660-136164/18	1DD04010.D	04/04/2013	14:57
	ICIS 660-136164/19	1DD04011.D	04/04/2013	15:19
	IC 660-136164/20	1DD04012.D	04/04/2013	15:42
	IC 660-136164/21	1DD04013.D	04/04/2013	16:04
	ICV 660-136164/22	1DD04014.D	04/04/2013	16:27

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

Lab Name: TestAmerica Tampa Job No.: 680-89459-2
SDG No.: 68089459-2
Lab File ID: 1DD23003.D DFTPP Injection Date: 04/23/2013
Instrument ID: BSMD5973 DFTPP Injection Time: 12:50
Analysis Batch No.: 136756

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	42.6
68	Less than 2.0 % of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	41.5
70	Less than 2.0 % of mass 69	0.2 (0.5) 1
127	10.0 - 80.0 % of mass 198	50.5
197	Less than 2.0 % of mass 198	0.7
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	30.3
365	Greater than 1.0 % of mass 198	4.1
441	Present but less than mass 443	7.5
442	Greater than 50.0 % of mass 198	94.6
443	15.0 - 24.0 % of mass 442	18.5 (19.6) 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 660-136756/4	1DD23004.D	04/23/2013	13:06
	MB 660-136660/1-A	1DD23008.D	04/23/2013	15:37
	LCS 660-136660/2-A	1DD23009.D	04/23/2013	15:59
	680-89328-A-25-B MS	1DD23011.D	04/23/2013	16:44
	680-89328-A-25-C MSD	1DD23012.D	04/23/2013	17:07
CV1219A-CSD	680-89459-21	1DD23023.D	04/23/2013	21:15
CV1344A-CS	680-89459-23	1DD23024.D	04/23/2013	21:38
CV1344A-CSD	680-89459-24	1DD23025.D	04/23/2013	22:00
CV1344B-CS	680-89459-25	1DD23026.D	04/23/2013	22:23
CV1344C-CS	680-89459-26	1DD23027.D	04/23/2013	22:45
CV0313A-CS-SP	680-89459-27	1DD23028.D	04/23/2013	23:08
CV0313B-CS-SP	680-89459-28	1DD23029.D	04/23/2013	23:30
CV0423A-CS-SP	680-89459-29	1DD23030.D	04/23/2013	23:53
CV0423B-CS-SP	680-89459-30	1DD23031.D	04/24/2013	00:16

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

Lab Name: TestAmerica Tampa Job No.: 680-89459-2
SDG No.: 68089459-2
Lab File ID: 1DD24002.D DFTPP Injection Date: 04/24/2013
Instrument ID: BSMD5973 DFTPP Injection Time: 12:30
Analysis Batch No.: 136826

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	39.0
68	Less than 2.0 % of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	38.5
70	Less than 2.0 % of mass 69	0.0 (0.0) 1
127	10.0 - 80.0 % of mass 198	46.6
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.1
275	10.0 - 60.0 % of mass 198	31.3
365	Greater than 1.0 % of mass 198	3.8
441	Present but less than mass 443	14.0
442	Greater than 50.0 % of mass 198	90.4
443	15.0 - 24.0 % of mass 442	19.2 (21.2) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136826/3	1DD24003.D	04/24/2013	12:46
	MB 660-136752/1-A	1DD24014.D	04/24/2013	16:55
	LCS 660-136752/2-A	1DD24015.D	04/24/2013	17:18
CV1219B-CS	680-89459-22	1DD24019.D	04/24/2013	18:48
CV1219B-CS MS	680-89459-22 MS	1DD24020.D	04/24/2013	19:10
CV1219B-CS MSD	680-89459-22 MSD	1DD24021.D	04/24/2013	19:33

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

Lab Name: TestAmerica Tampa Job No.: 680-89459-2
 SDG No.: 68089459-2
 Sample No.: ICIS 660-136792/8 Date Analyzed: 04/24/2013 13:57
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CD24007.D Heated Purge: (Y/N) N
 Calibration ID: 2916

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		127529	3.63	79707	4.72	157508	5.66
UPPER LIMIT		255058	4.13	159414	5.22	315016	6.16
LOWER LIMIT		63765	3.13	39854	4.22	78754	5.16
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136792/15		178260	3.63	107629	4.72	194163	5.66
MB 660-136731/1-A		148951	3.63	95079	4.72	165222	5.67
LCS 660-136731/2-A		127322	3.63	84433	4.72	159954	5.66
680-89421-A-1-B MS		132812	3.63	88305	4.72	182302	5.66
680-89421-A-1-C MSD		154110	3.63	101315	4.72	195570	5.66
680-89459-31	CV1013A-CS-SP	149712	3.63	100132	4.72	190385	5.66
680-89459-32	CV1013B-CS-SP	154225	3.63	108245	4.72	204759	5.66

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

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

RT Limit = $\pm$ 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.: 680-89459-2
 SDG No.: 68089459-2
 Sample No.: ICIS 660-136792/8 Date Analyzed: 04/24/2013 13:57
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CD24007.D Heated Purge: (Y/N) N
 Calibration ID: 2916

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	216809	7.59	224587	8.74		
UPPER LIMIT	433618	8.09	449174	9.24		
LOWER LIMIT	108405	7.09	112294	8.24		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-136792/15		234167	7.59	247483	8.73	
MB 660-136731/1-A		187433	7.60	213613	8.75	
LCS 660-136731/2-A		198591	7.59	222308	8.74	
680-89421-A-1-B MS		228957	7.59	224834	8.74	
680-89421-A-1-C MSD		245677	7.59	249914	8.73	
680-89459-31	CV1013A-CS-SP	231666	7.59	220190	8.73	
680-89459-32	CV1013B-CS-SP	238020	7.59	226719	8.73	

CRY = Chrysene-d12

PRY = Perylene-d12

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

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-89459-2
SDG No.: 68089459-2
Sample No.: ICIS 660-136164/19 Date Analyzed: 04/04/2013 15:19
Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
Lab File ID (Standard): 1DD04011.D Heated Purge: (Y/N) N
Calibration ID: 2874

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	2475113	6.09	1466924	7.77	2428512	9.03
UPPER LIMIT	4950226	6.59	2933848	8.27	4857024	9.53
LOWER LIMIT	1237557	5.59	733462	7.27	1214256	8.53
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-136164/22		3619899	6.10	2333423	7.77	3845474 9.03

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

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

RT Limit = $\pm$ 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.: 680-89459-2
SDG No.: 68089459-2
Sample No.: ICIS 660-136164/19 Date Analyzed: 04/04/2013 15:19
Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
Lab File ID (Standard): 1DD04011.D Heated Purge: (Y/N) N
Calibration ID: 2874

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	2464730	11.34	2515643	13.17		
UPPER LIMIT	4929460	11.84	5031286	13.67		
LOWER LIMIT	1232365	10.84	1257822	12.67		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-136164/22		3963674	11.35	3958481	13.18	

CRY = Chrysene-d12

PRY = Perylene-d12

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

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-89459-2
 SDG No.: 68089459-2
 Sample No.: CCVIS 660-136756/4 Date Analyzed: 04/23/2013 13:06
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DD23004.D Heated Purge: (Y/N) N
 Calibration ID: 2874

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	1580617	6.05	898769	7.73	1440899	9.00	
UPPER LIMIT	3161234	6.55	1797538	8.23	2881798	9.50	
LOWER LIMIT	790309	5.55	449385	7.23	720450	8.50	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136660/1-A		1783244	6.05	1022871	7.74	1640756	8.99
LCS 660-136660/2-A		1811705	6.05	1032077	7.73	1634283	9.00
680-89328-A-25-B MS		1708276	6.06	976004	7.74	1600101	8.99
680-89328-A-25-C MSD		1786951	6.05	1009070	7.73	1671555	9.00
680-89459-21	CV1219A-CSD	1761535	6.06	998558	7.74	1636102	9.00
680-89459-23	CV1344A-CS	1859719	6.06	1065378	7.74	1733628	9.00
680-89459-24	CV1344A-CSD	1805172	6.06	1051165	7.74	1691757	9.00
680-89459-25	CV1344B-CS	1860586	6.06	1041914	7.74	1703922	9.00
680-89459-26	CV1344C-CS	1919189	6.05	1101638	7.73	1802938	9.00
680-89459-27	CV0313A-CS-SP	2008574	6.06	1133881	7.74	1784589	9.00
680-89459-28	CV0313B-CS-SP	1891264	6.06	1083281	7.74	1742003	9.00
680-89459-29	CV0423A-CS-SP	1876771	6.05	1062877	7.73	1691423	9.00
680-89459-30	CV0423B-CS-SP	1805186	6.06	1020266	7.74	1682919	9.00

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

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

RT Limit = $\pm$ 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.: 680-89459-2
 SDG No.: 68089459-2
 Sample No.: CCVIS 660-136756/4 Date Analyzed: 04/23/2013 13:06
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DD23004.D Heated Purge: (Y/N) N
 Calibration ID: 2874

		CRY		PRY		AREA #	RT #
		AREA #	RT #	AREA #	RT #		
12/24 HOUR STD		1347354	11.30	1365132	13.12		
UPPER LIMIT		2694708	11.80	2730264	13.62		
LOWER LIMIT		673677	10.80	682566	12.62		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136660/1-A		1577513	11.30	1653399	13.12		
LCS 660-136660/2-A		1548433	11.30	1605678	13.12		
680-89328-A-25-B MS		1513680	11.30	1772427	13.12		
680-89328-A-25-C MSD		1598940	11.30	1867332	13.13		
680-89459-21	CV1219A-CSD	1888051	11.31	2004551	13.14		
680-89459-23	CV1344A-CS	2062405	11.31	2158431	13.14		
680-89459-24	CV1344A-CSD	1940532	11.31	2021930	13.14		
680-89459-25	CV1344B-CS	1979167	11.31	1979122	13.14		
680-89459-26	CV1344C-CS	2113031	11.31	2057935	13.14		
680-89459-27	CV0313A-CS-SP	2069349	11.32	1976428	13.14		
680-89459-28	CV0313B-CS-SP	2090171	11.31	1980817	13.14		
680-89459-29	CV0423A-CS-SP	1946505	11.31	1850176	13.14		
680-89459-30	CV0423B-CS-SP	2094065	11.31	1889373	13.14		

CRY = Chrysene-d12

PRY = Perylene-d12

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

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-89459-2
 SDG No.: 68089459-2
 Sample No.: CCVIS 660-136826/3 Date Analyzed: 04/24/2013 12:46
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DD24003.D Heated Purge: (Y/N) N
 Calibration ID: 2874

		NPT		ANT		PHN		
		AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD		2248073	6.05	1360336	7.73	2236773	8.99	
UPPER LIMIT		4496146	6.55	2720672	8.23	4473546	9.49	
LOWER LIMIT		1124037	5.55	680168	7.23	1118387	8.49	
LAB SAMPLE ID		CLIENT SAMPLE ID						
MB 660-136752/1-A		2776941	6.05	1716814	7.73	2751589	8.99	
LCS 660-136752/2-A		2121388	6.05	1279631	7.73	2148959	8.99	
680-89459-22		CV1219B-CS	2100108	6.05	1282625	7.73	2086714	8.99
680-89459-22 MS		CV1219B-CS MS	2047873	6.05	1241886	7.73	2023214	8.99
680-89459-22 MSD		CV1219B-CS MSD	2013105	6.05	1218867	7.73	1994412	8.99

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

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

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-89459-2
 SDG No.: 68089459-2
 Sample No.: CCVIS 660-136826/3 Date Analyzed: 04/24/2013 12:46
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DD24003.D Heated Purge: (Y/N) N
 Calibration ID: 2874

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	2287204	11.30	2285243	13.12		
UPPER LIMIT	4574408	11.80	4570486	13.62		
LOWER LIMIT	1143602	10.80	1142622	12.62		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-136752/1-A		2681161	11.30	2646796	13.12	
LCS 660-136752/2-A		2097144	11.30	2063943	13.11	
680-89459-22	CV1219B-CS	2190054	11.30	2320041	13.13	
680-89459-22 MS	CV1219B-CS MS	2174744	11.30	2244148	13.13	
680-89459-22 MSD	CV1219B-CS MSD	2213259	11.31	2227627	13.14	

CRY = Chrysene-d12

PRY = Perylene-d12

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

RT Limit = $\pm$ 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: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-2</u>
SDG No.: <u>68089459-2</u>	
Client Sample ID: <u>CV1219A-CSD</u>	Lab Sample ID: <u>680-89459-21</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD23023.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 13:50</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 15:35</u>
Sample wt/vol: <u>15.21(g)</u>	Date Analyzed: <u>04/23/2013 21:15</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>21.4</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136756</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	7.2	J	50	6.3
120-12-7	Anthracene	38		11	5.3
56-55-3	Benzo[a]anthracene	570		10	4.9
50-32-8	Benzo[a]pyrene	1200		13	6.5
205-99-2	Benzo[b]fluoranthene	1700		15	7.7
191-24-2	Benzo[g,h,i]perylene	770		25	5.5
207-08-9	Benzo[k]fluoranthene	620		10	4.5
218-01-9	Chrysene	730		11	5.6
53-70-3	Dibenz(a,h)anthracene	220		25	5.1
206-44-0	Fluoranthene	440		25	5.0
86-73-7	Fluorene	17	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	640		25	8.9
90-12-0	1-Methylnaphthalene	46	J	50	5.5
91-57-6	2-Methylnaphthalene	57		50	8.9
91-20-3	Naphthalene	52		50	5.5
85-01-8	Phenanthrene	180		10	4.9
129-00-0	Pyrene	390		25	4.6

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23023.D
 Lab Smp Id: 680-89459-A-21-A Client Smp ID: CV1219A-CSD
 Inj Date : 23-APR-2013 21:15
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89459-A-21-A
 Misc Info : 680-89459-A-21-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
 Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.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	15.210	Weight Extracted
M	21.413	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.055	6.051	(1.000)		1761535	40.0000	
* 6 Acenaphthene-d10	164		7.735	7.732	(1.000)		998558	40.0000	
* 9 Phenanthrene-d10	188		8.998	8.995	(1.000)		1636102	40.0000	
\$ 13 o-Terphenyl	230		9.304	9.306	(1.034)		113568	4.60689	380
* 17 Chrysene-d12	240		11.313	11.304	(1.000)		1888051	40.0000	
* 22 Perylene-d12	264		13.141	13.120	(1.000)		2004551	40.0000	
2 Naphthalene	128		6.072	6.075	(1.003)		27368	0.62507	52
3 2-Methylnaphthalene	142		6.783	6.780	(1.120)		19165	0.67807	57
4 1-Methylnaphthalene	142		6.871	6.874	(1.135)		14613	0.54749	46
5 Acenaphthylene	152		7.606	7.608	(0.983)		3614	0.08551	7.2
7 Acenaphthene	154		7.759	7.761	(1.003)		7168	0.27477	23
8 Fluorene	166		8.205	8.208	(1.061)		6445	0.20862	17
10 Phenanthrene	178		9.016	9.013	(1.002)		96422	2.13958	180
11 Anthracene	178		9.051	9.054	(1.006)		20087	0.44908	38

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
12 Carbazole	167	9.198	9.195	(1.022)	15098	0.38267	32
14 Fluoranthene	202	9.997	10.000	(1.111)	246601	5.31754	440
15 Pyrene	202	10.185	10.188	(0.900)	261276	4.60820	380
16 Benzo(a)anthracene	228	11.296	11.287	(0.998)	371930	6.81349	570
18 Chrysene	228	11.337	11.328	(1.002)	449496	8.78204	730
19 Benzo(b)fluoranthene	252	12.600	12.585	(0.959)	1046329	20.8956	1700
20 Benzo(k)fluoranthene	252	12.629	12.620	(0.961)	389577	7.38488	620
21 Benzo(a)pyrene	252	13.047	13.032	(0.993)	717338	14.2575	1200
23 Indeno(1,2,3-cd)pyrene	276	14.727	14.706	(1.121)	409205	7.62753	640(M)
24 Dibenzo(a,h)anthracene	278	14.739	14.735	(1.122)	131677	2.60644	220
25 Benzo(g,h,i)perylene	276	15.168	15.141	(1.154)	477876	9.25113	770

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD23023.D

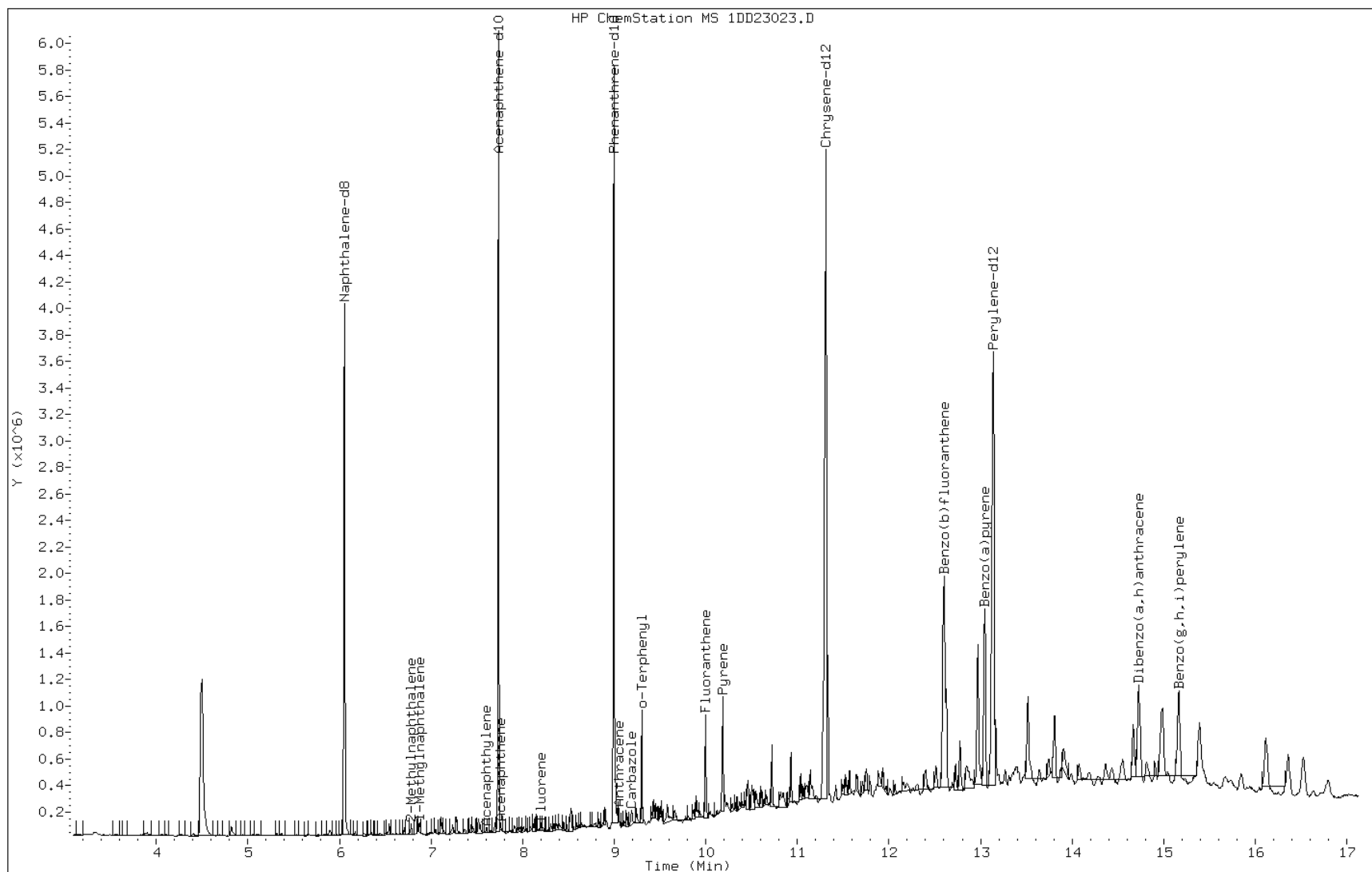
Date: 23-APR-2013 21:15

Client ID: CV1219A-CSD

Instrument: BSMSD.i

Sample Info: 680-89459-A-21-A

Operator: SCC



Data File: 1DD23023.D

Date: 23-APR-2013 21:15

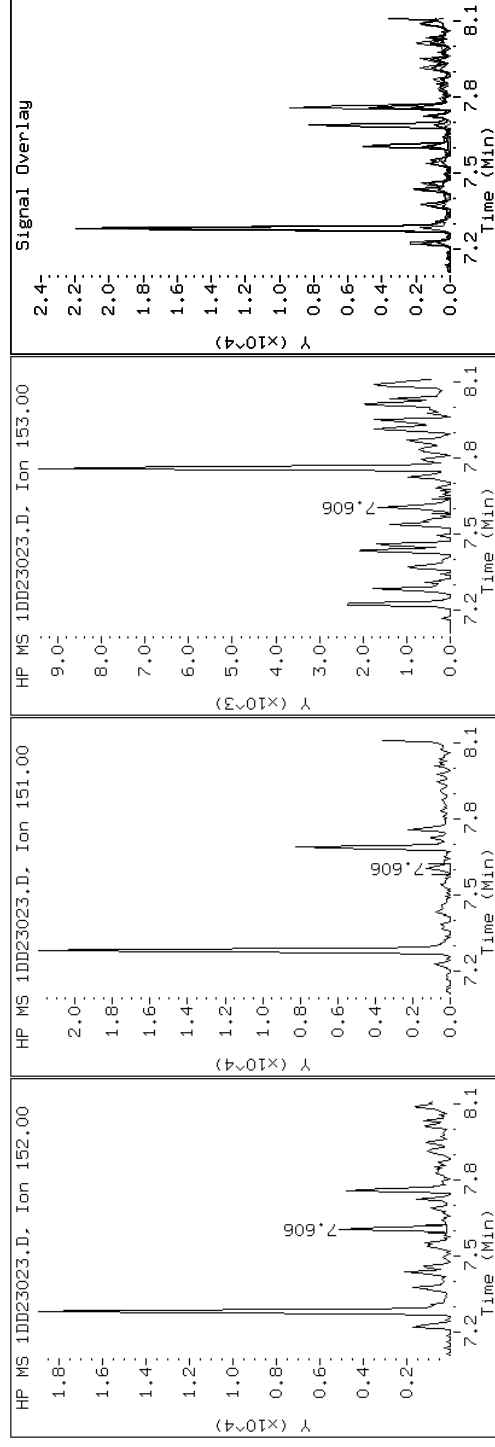
Client ID: CV1219A-CSD

Sample Info: 680-89459-A-21-A

Instrument: BSMDS.i

Operator: SCC

5 Acenaphthylene



Data File: 1DD23023.D

Date: 23-APR-2013 21:15

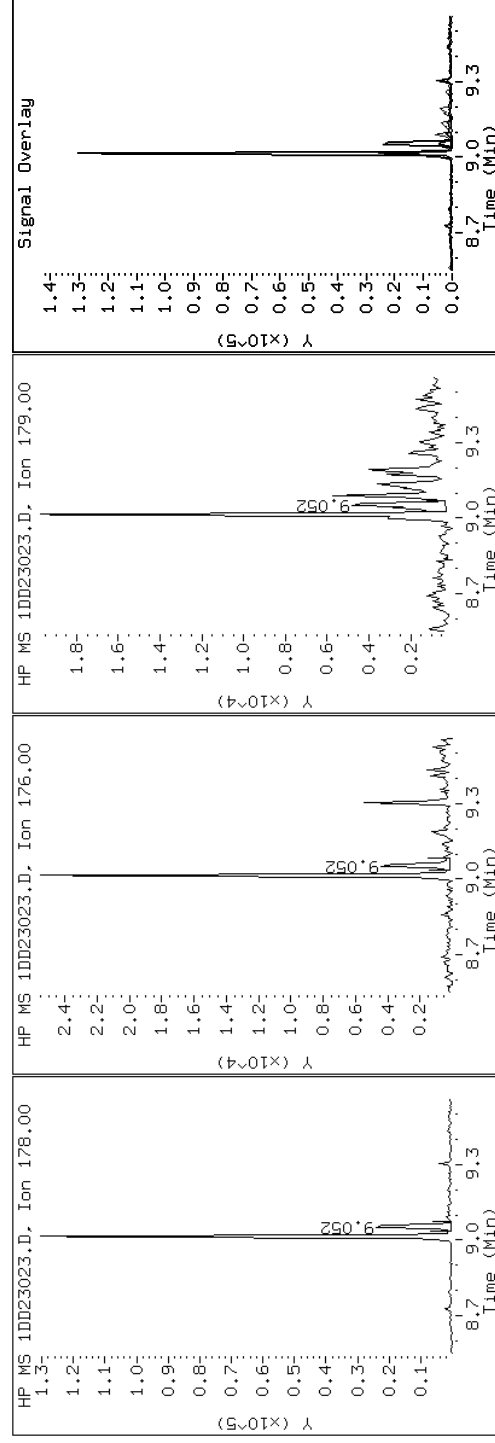
Client ID: CV1219A-CSD

Sample Info: 680-89459-A-21-A

Instrument: BSMDS.i

Operator: SCC

11 Anthracene



Data File: 1DD23023.D

Date: 23-APR-2013 21:15

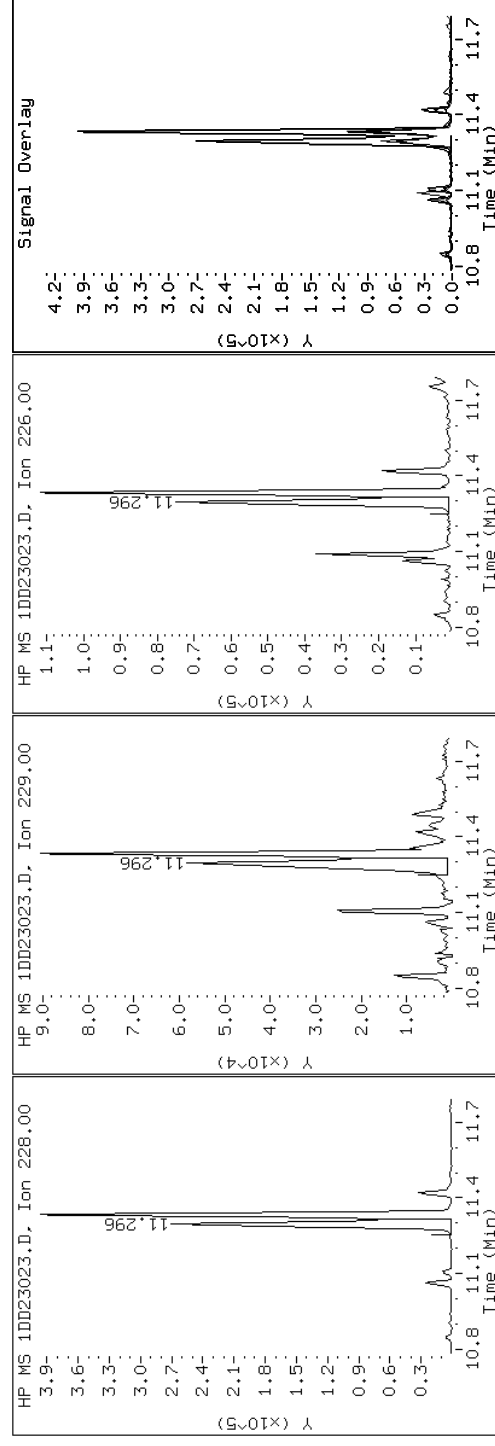
Client ID: CV1219A-CSD

Sample Info: 680-89459-A-21-A

Instrument: BSMDS.i

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD23023.D

Date: 23-APR-2013 21:15

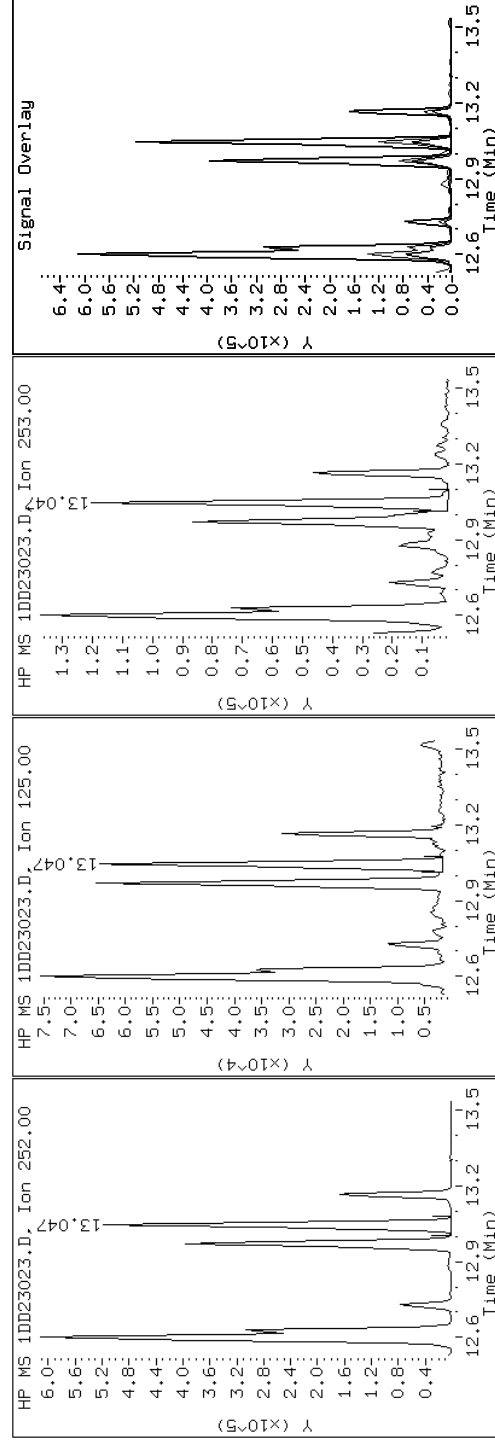
Client ID: CV1219A-CSD

Sample Info: 680-89459-A-21-A

Instrument: BSMDS.i

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD23023.D

Date: 23-APR-2013 21:15

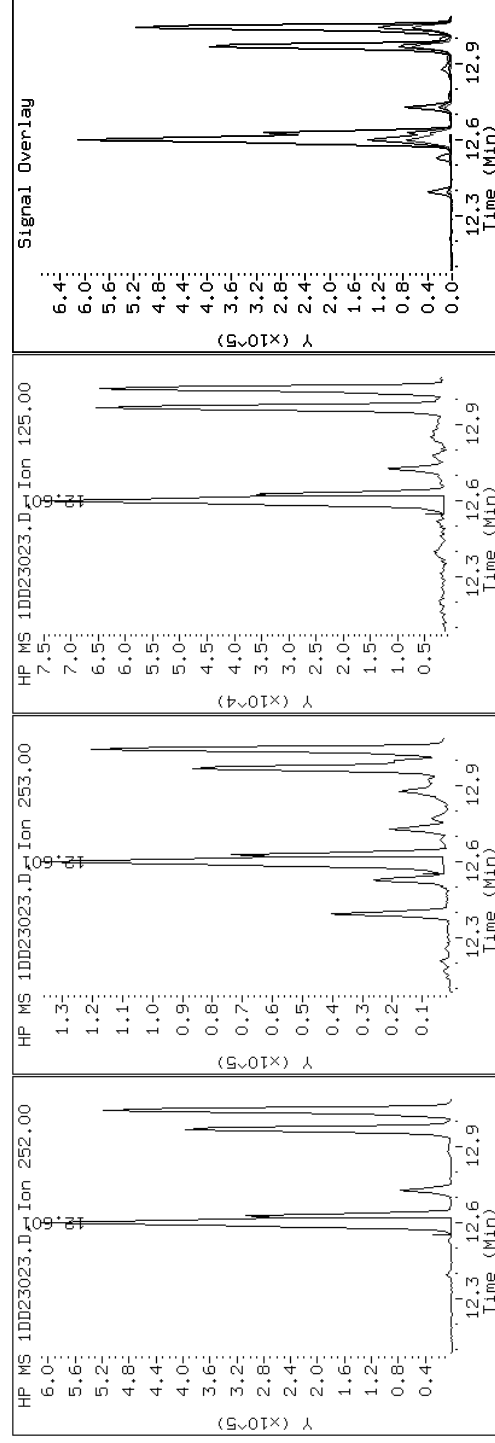
Client ID: CV1219A-CSD

Sample Info: 680-89459-A-21-A

Instrument: BSMDS.i

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD23023.D

Date: 23-APR-2013 21:15

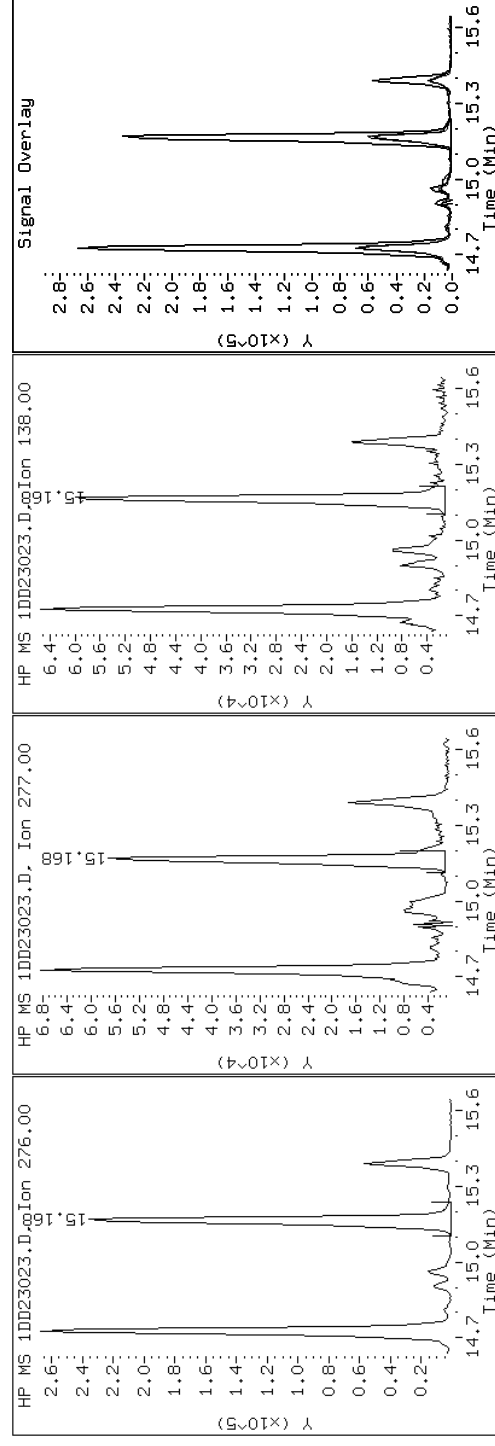
Client ID: CV1219A-CSD

Sample Info: 680-89459-A-21-A

Instrument: BSMDS.i

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD23023.D

Date: 23-APR-2013 21:15

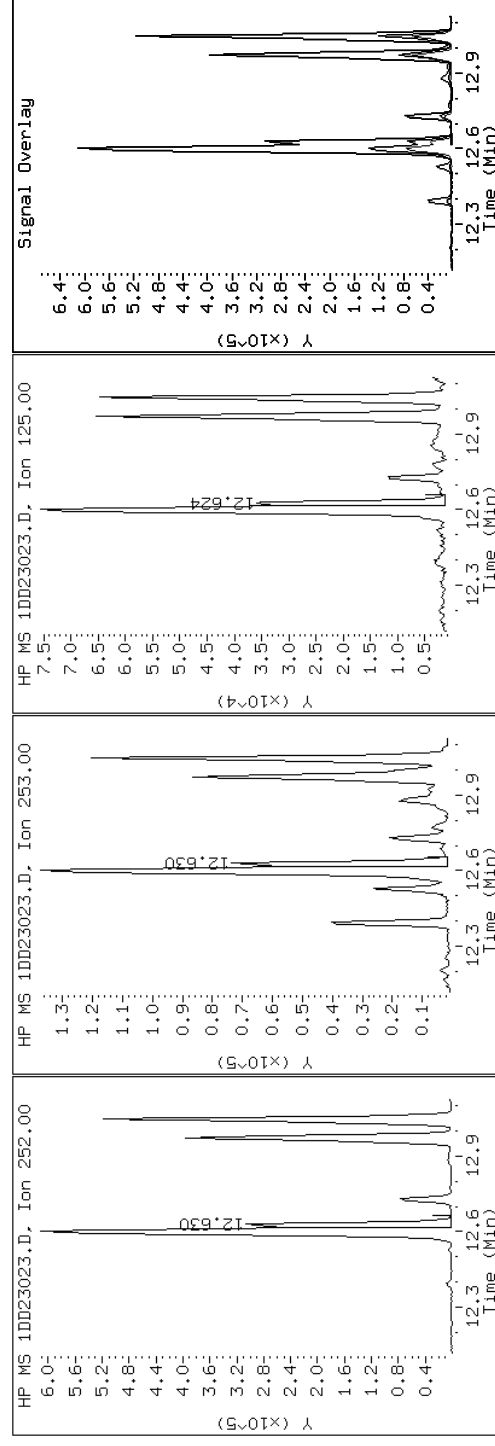
Client ID: CV1219A-CSD

Sample Info: 680-89459-A-21-A

Instrument: BSMDS.i

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD23023.D

Date: 23-APR-2013 21:15

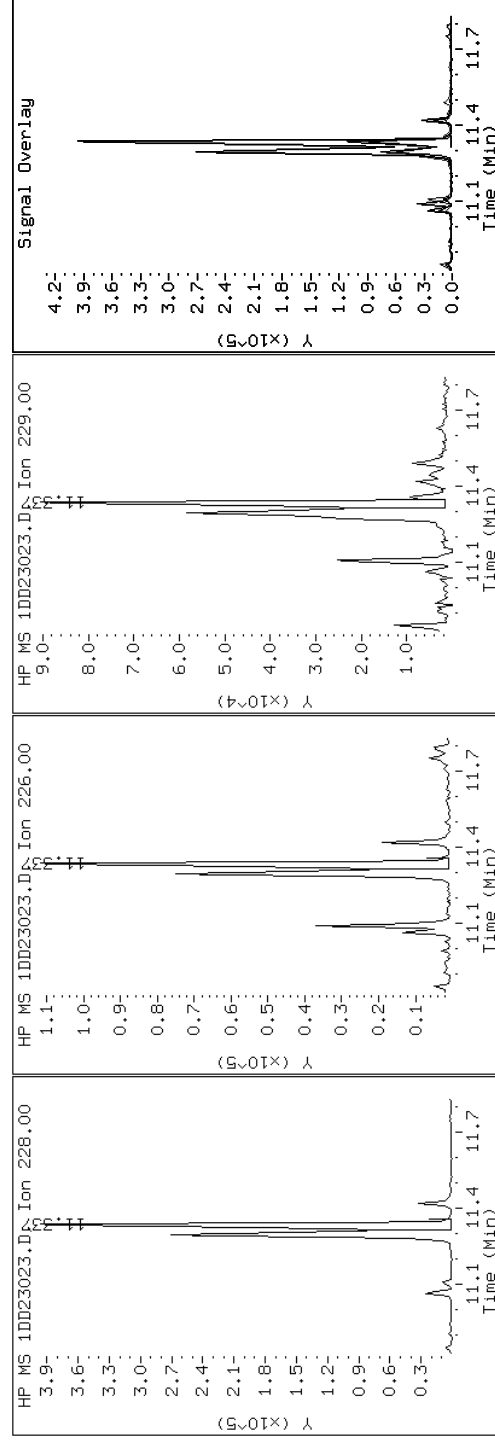
Client ID: CV1219A-CSD

Sample Info: 680-89459-A-21-A

18 Chrysene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23023.D

Date: 23-APR-2013 21:15

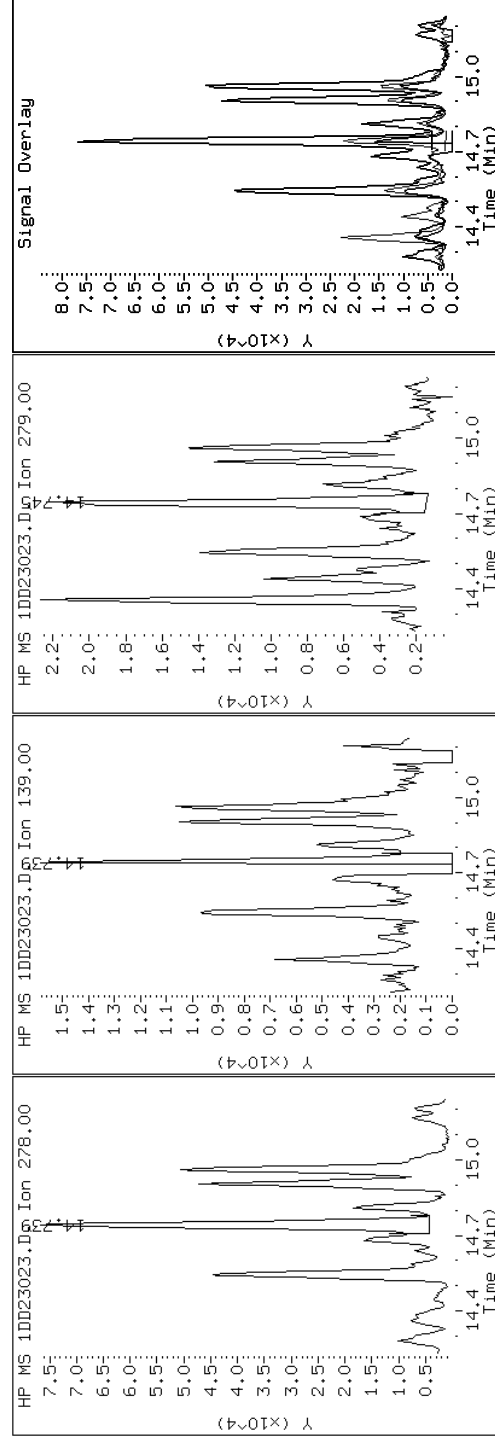
Client ID: CV1219A-CSD

Sample Info: 680-89459-A-21-A

Instrument: BSMSD.i

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD23023.D

Date: 23-APR-2013 21:15

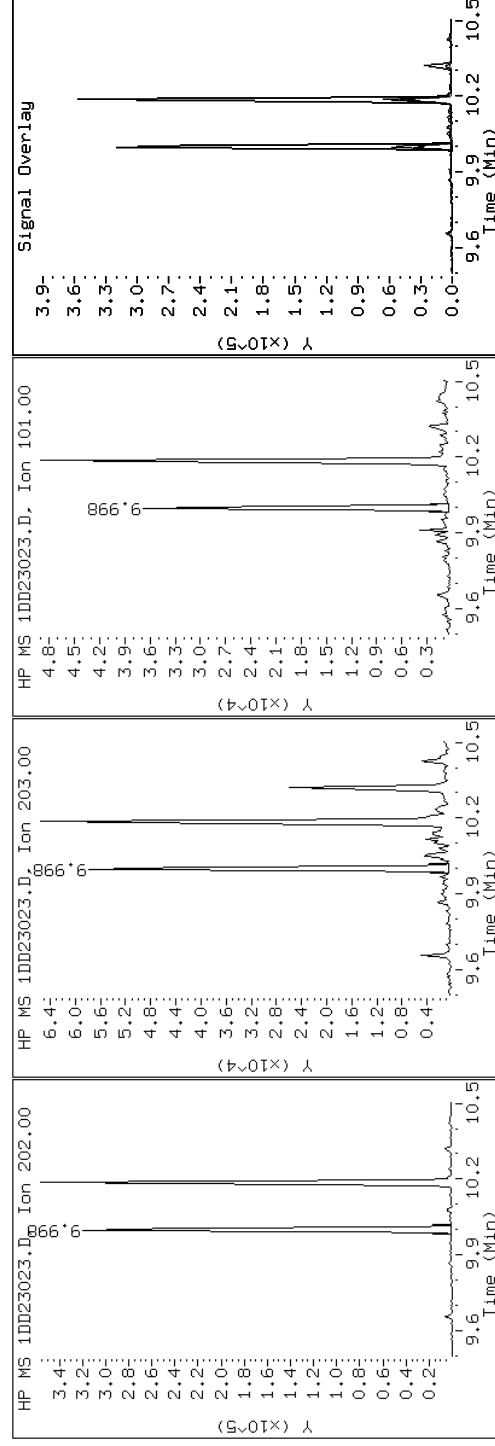
Client ID: CV1219A-CSD

Sample Info: 680-89459-A-21-A

14 Fluoranthene

Instrument: BSMSD.i

Operator: SCC



Data File: 1DD23023.D

Date: 23-APR-2013 21:15

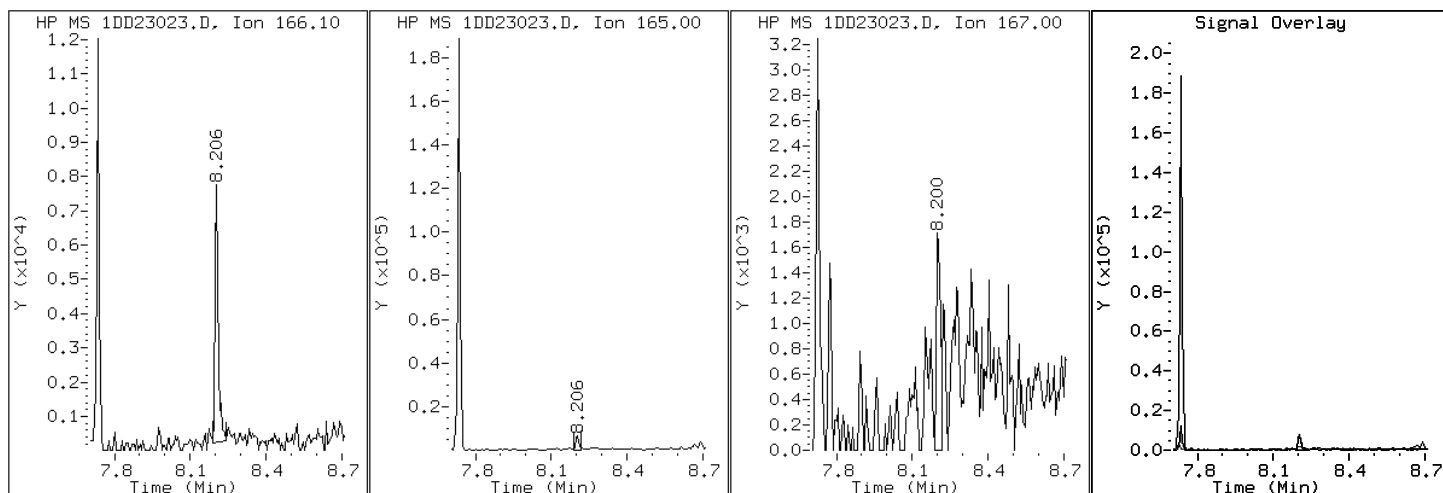
Client ID: CV1219A-CSD

Instrument: BSMSD.i

Sample Info: 680-89459-A-21-A

Operator: SCC

8 Fluorene



Data File: 1DD23023.D

Date: 23-APR-2013 21:15

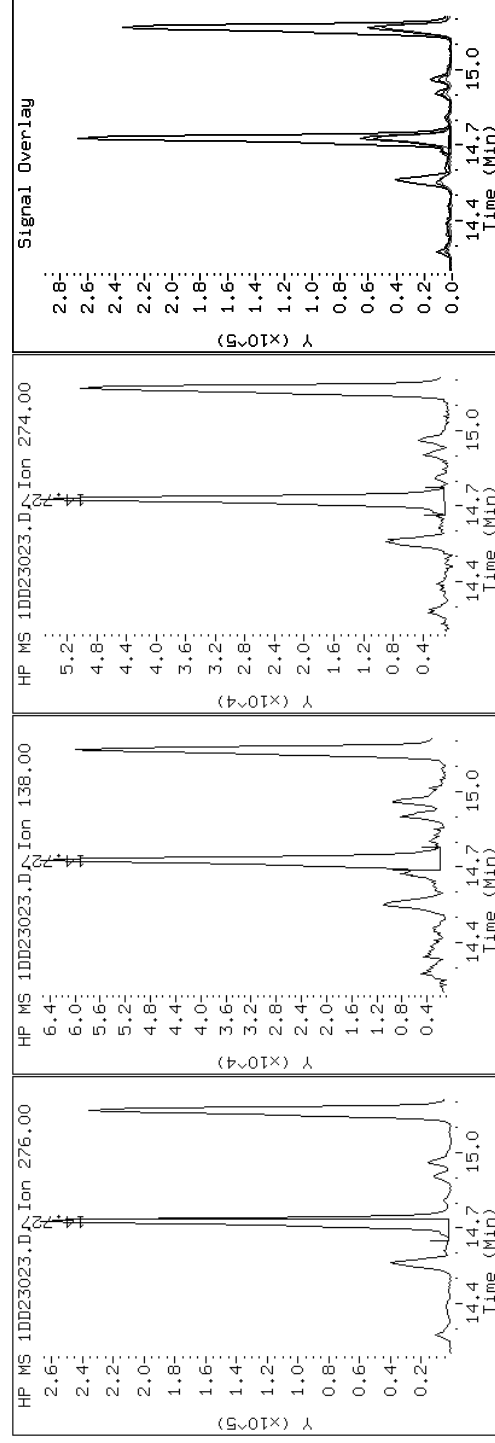
Client ID: CV1219A-CSD

Sample Info: 680-89459-A-21-A

Instrument: BSMSD.i

Operator: SCC

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



Data File: 1DD23023.D

Date: 23-APR-2013 21:15

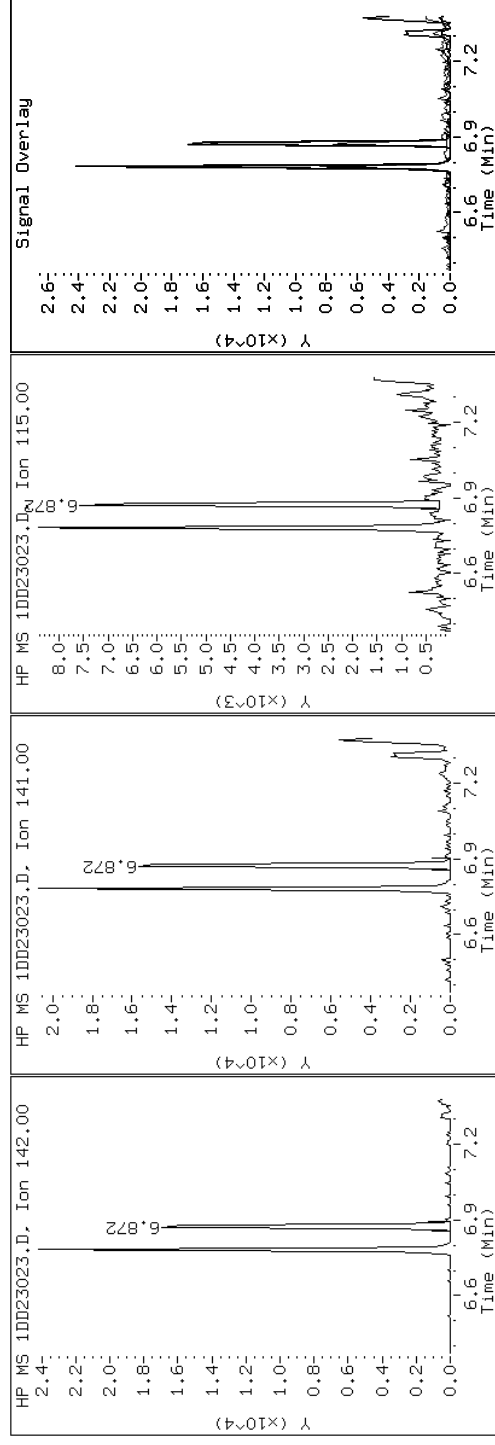
Client ID: CV1219A-CSD

Sample Info: 680-89459-A-21-A

Instrument: BSMDS.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD23023.D

Date: 23-APR-2013 21:15

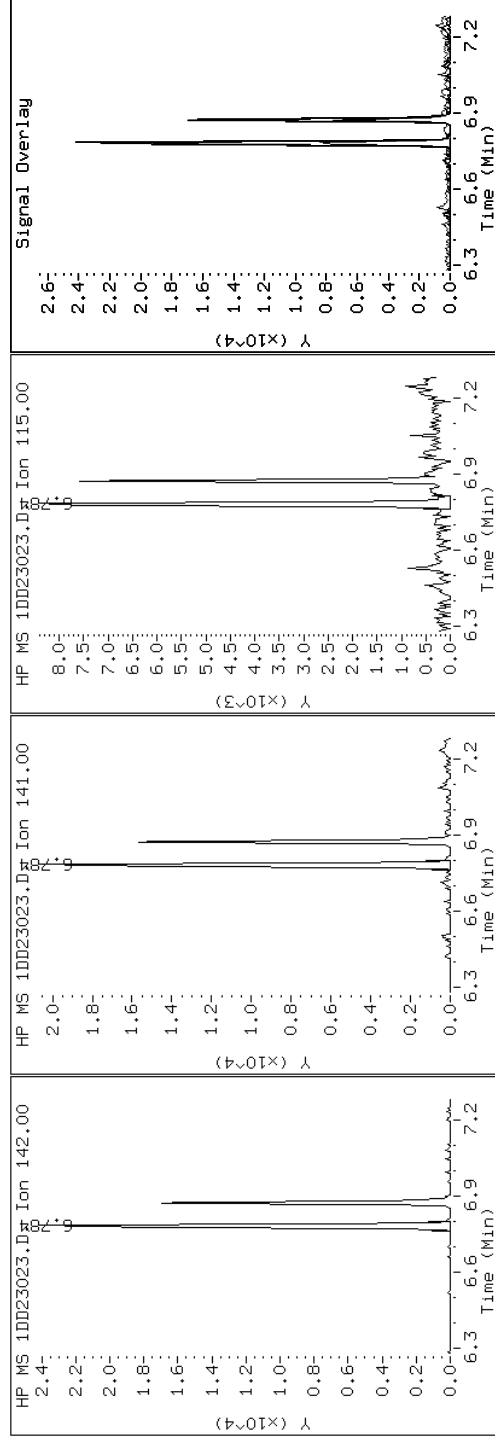
Client ID: CV1219A-CSD

Sample Info: 680-89459-A-21-A

Instrument: BSMDS.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD23023.D

Date: 23-APR-2013 21:15

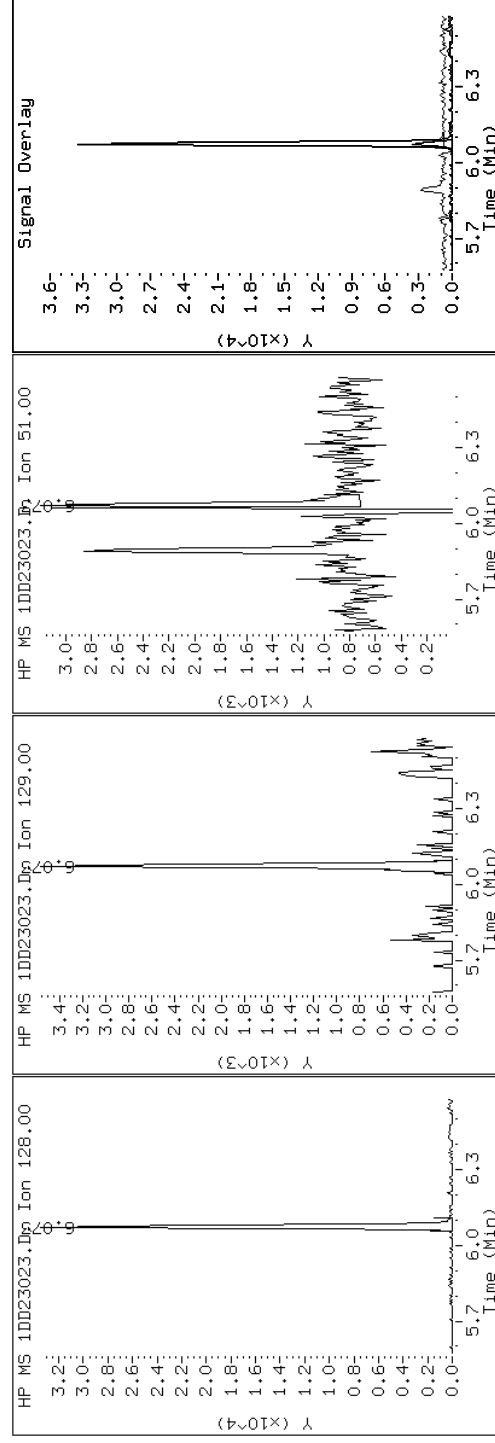
Client ID: CV1219A-CSD

Sample Info: 680-89459-A-21-A

2 Naphthalene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23023.D

Date: 23-APR-2013 21:15

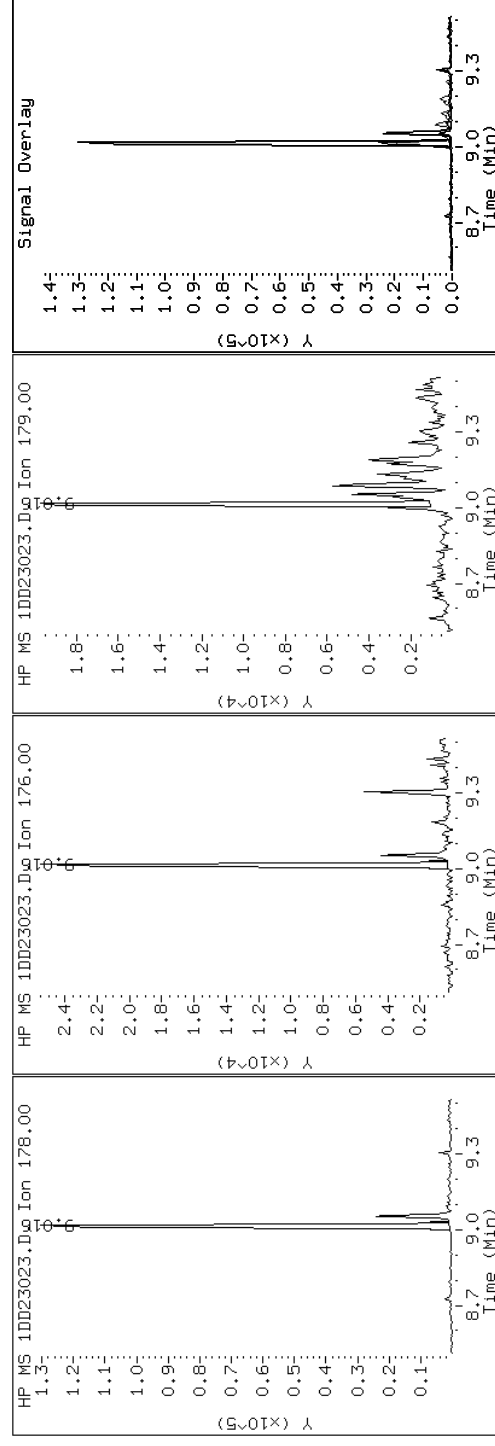
Client ID: CV1219A-CSD

Sample Info: 680-89459-A-21-A

Instrument: BSMDS.i

Operator: SCC

10 Phenanthrene



Data File: 1DD23023.D

Date: 23-APR-2013 21:15

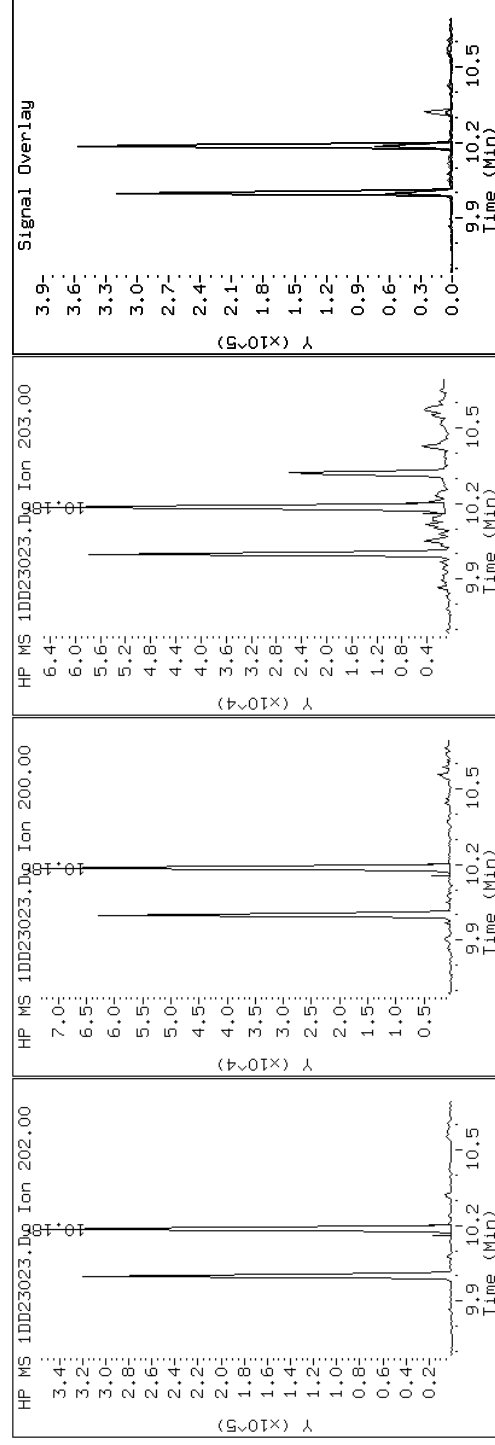
Client ID: CV1219A-CSD

Sample Info: 680-89459-A-21-A

15 Pyrene

Instrument: BSMDS.i

Operator: SCC

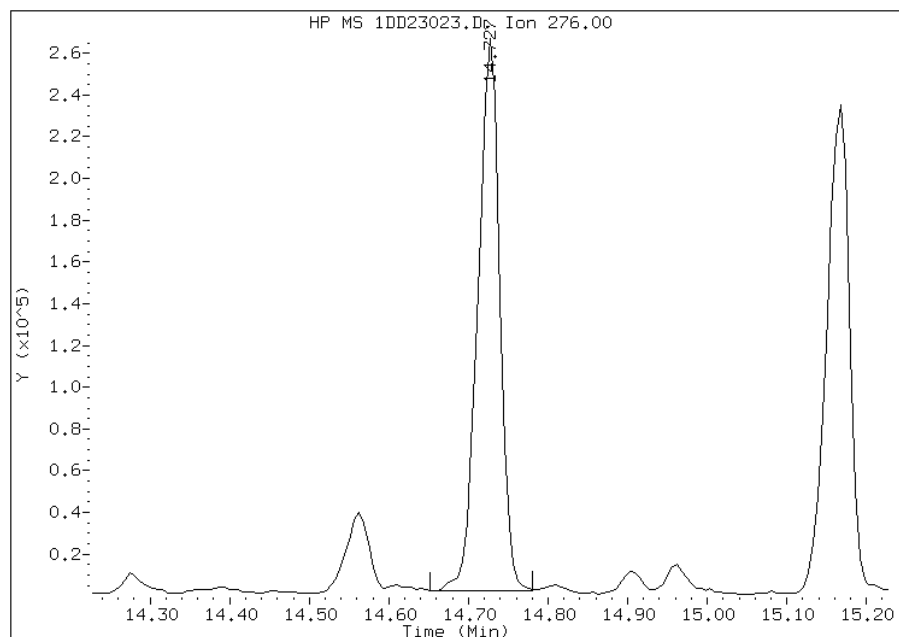


Manual Integration Report

Data File: 1DD23023.D
Inj. Date and Time: 23-APR-2013 21:15
Instrument ID: BSMSD.i
Client ID: CV1219A-CSD
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

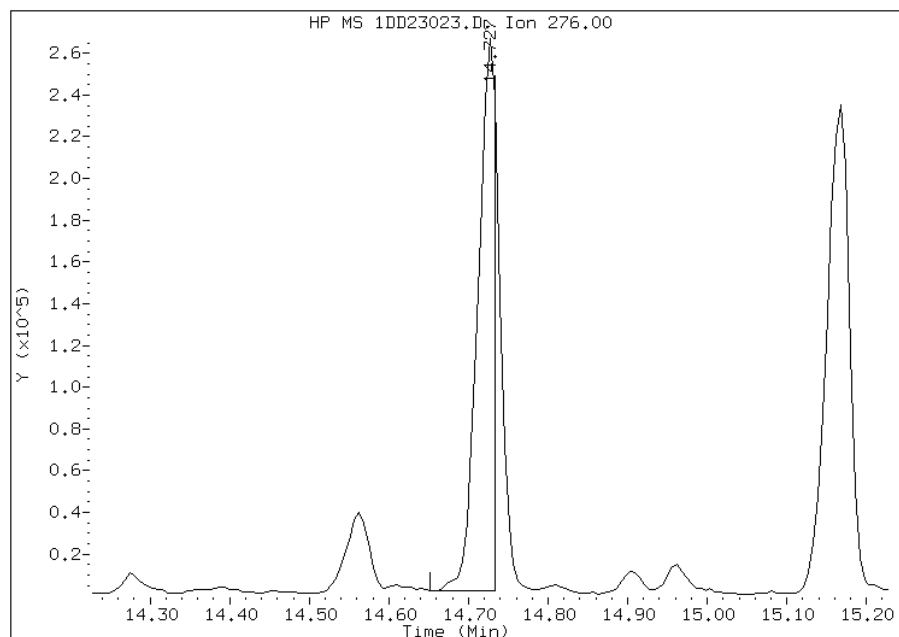
Processing Integration Results

RT: 14.73
Response: 502353
Amount: 9
Conc: 783



Manual Integration Results

RT: 14.73
Response: 409205
Amount: 8
Conc: 638



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 13:22
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-2</u>
SDG No.: <u>68089459-2</u>	
Client Sample ID: <u>CV1219B-CS</u>	Lab Sample ID: <u>680-89459-22</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD24019.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 14:00</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/23/2013 14:49</u>
Sample wt/vol: <u>15.37(g)</u>	Date Analyzed: <u>04/24/2013 18:48</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>23.7</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136826</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	9.5	J	51	6.4
120-12-7	Anthracene	27		11	5.4
56-55-3	Benzo[a]anthracene	140		10	5.0
50-32-8	Benzo[a]pyrene	200		13	6.6
205-99-2	Benzo[b]fluoranthene	350		16	7.8
191-24-2	Benzo[g,h,i]perylene	150		26	5.6
207-08-9	Benzo[k]fluoranthene	110		10	4.6
218-01-9	Chrysene	210		12	5.8
53-70-3	Dibenz(a,h)anthracene	49		26	5.2
206-44-0	Fluoranthene	170		26	5.1
86-73-7	Fluorene	6.2	J	26	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	130		26	9.1
90-12-0	1-Methylnaphthalene	52		51	5.6
91-57-6	2-Methylnaphthalene	70		51	9.1
91-20-3	Naphthalene	73		51	5.6
85-01-8	Phenanthrene	100		10	5.0
129-00-0	Pyrene	130		26	4.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	66		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\1DD24019.D
 Lab Smp Id: 680-89459-A-22-A Client Smp ID: CV1219B-CS
 Inj Date : 24-APR-2013 18:48
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89459-A-22-A
 Misc Info : 680-89459-A-22-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\dFASTPAHi.m
 Meth Date : 24-Apr-2013 13:05 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 19
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{V_i} * \frac{V_t}{W_s} * \frac{100}{(100 - M)} * A * B * C * D * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.370	Weight Extracted
M	23.679	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.048	6.049	(1.000)		2100108	40.0000	
* 6 Acenaphthene-d10	164		7.728	7.730	(1.000)		1282625	40.0000	
* 9 Phenanthrene-d10	188		8.992	8.993	(1.000)		2086714	40.0000	
\$ 13 o-Terphenyl	230		9.297	9.298	(1.034)		206130	6.55603	560
* 17 Chrysene-d12	240		11.301	11.302	(1.000)		2190054	40.0000	
* 22 Perylene-d12	264		13.128	13.123	(1.000)		2320041	40.0000	
2 Naphthalene	128		6.066	6.073	(1.003)		44847	0.85915	73
3 2-Methylnaphthalene	142		6.777	6.778	(1.120)		27591	0.81881	70
4 1-Methylnaphthalene	142		6.871	6.872	(1.136)		19306	0.60671	52
5 Acenaphthylene	152		7.599	7.600	(0.983)		6020	0.11089	9.4
8 Fluorene	166		8.199	8.200	(1.061)		2866	0.07223	6.2
10 Phenanthrene	178		9.009	9.010	(1.002)		68414	1.19027	100
11 Anthracene	178		9.050	9.052	(1.007)		18110	0.31745	27
12 Carbazole	167		9.191	9.193	(1.022)		8641	0.17172	15

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
14 Fluoranthene	202	9.991	9.997	(1.111)	116041	1.96189	170
15 Pyrene	202	10.179	10.185	(0.901)	103501	1.57375	130
16 Benzo(a)anthracene	228	11.289	11.284	(0.999)	100921	1.59385	140
18 Chrysene	228	11.324	11.331	(1.002)	149285	2.51446	210
19 Benzo(b)fluoranthene	252	12.576	12.583	(0.958)	237640	4.10041	350
20 Benzo(k)fluoranthene	252	12.611	12.618	(0.961)	81820	1.34008	110
21 Benzo(a)pyrene	252	13.022	13.029	(0.992)	136095	2.33714	200
23 Indeno(1,2,3-cd)pyrene	276	14.703	14.710	(1.120)	98134	1.58046	130(M)
24 Dibenzo(a,h)anthracene	278	14.720	14.733	(1.121)	33946	0.58056	49
25 Benzo(g,h,i)perylene	276	15.137	15.150	(1.153)	104493	1.74779	150(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD24019.D

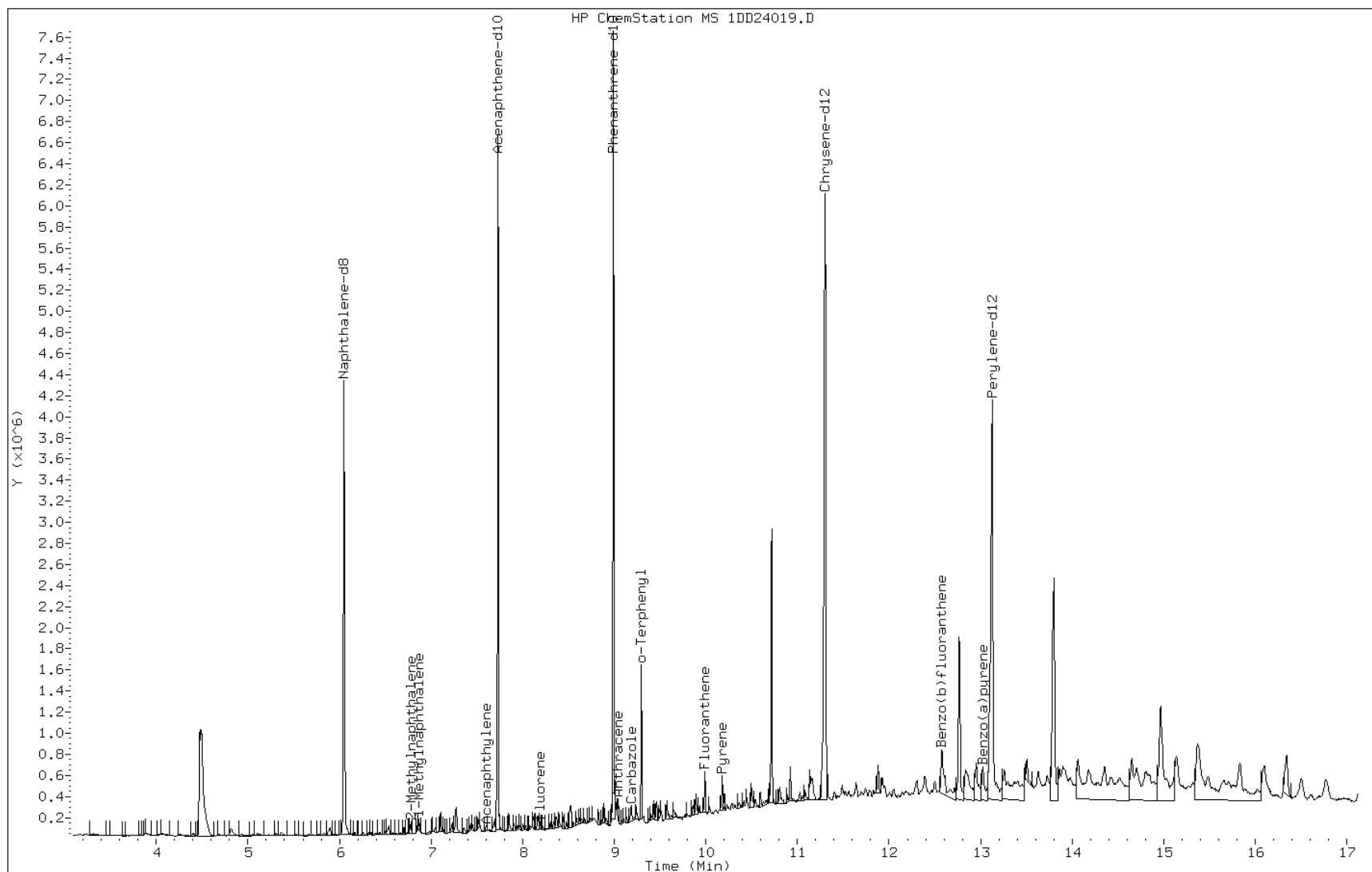
Date: 24-APR-2013 18:48

Client ID: CV1219B-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-22-A

Operator: SCC



Data File: 1DD24019.D

Date: 24-APR-2013 18:48

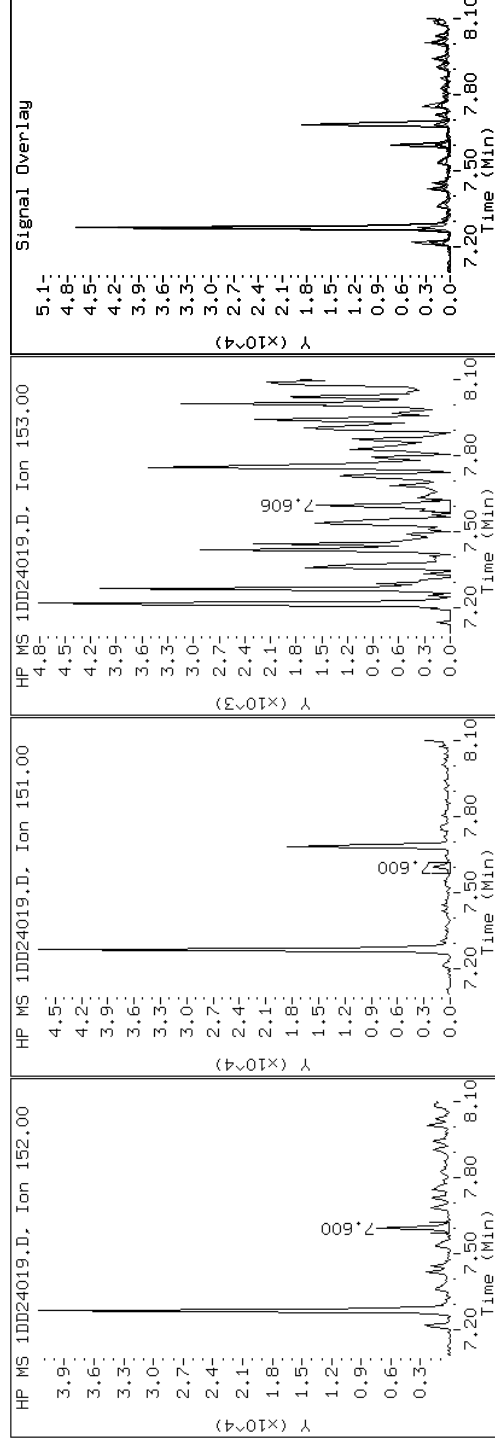
Client ID: CV1219B-CS

Sample Info: 680-89459-A-22-A

Instrument: BSMSD.i

Operator: SCC

5 Acenaphthylene



Data File: 1DD24019.D

Date: 24-APR-2013 18:48

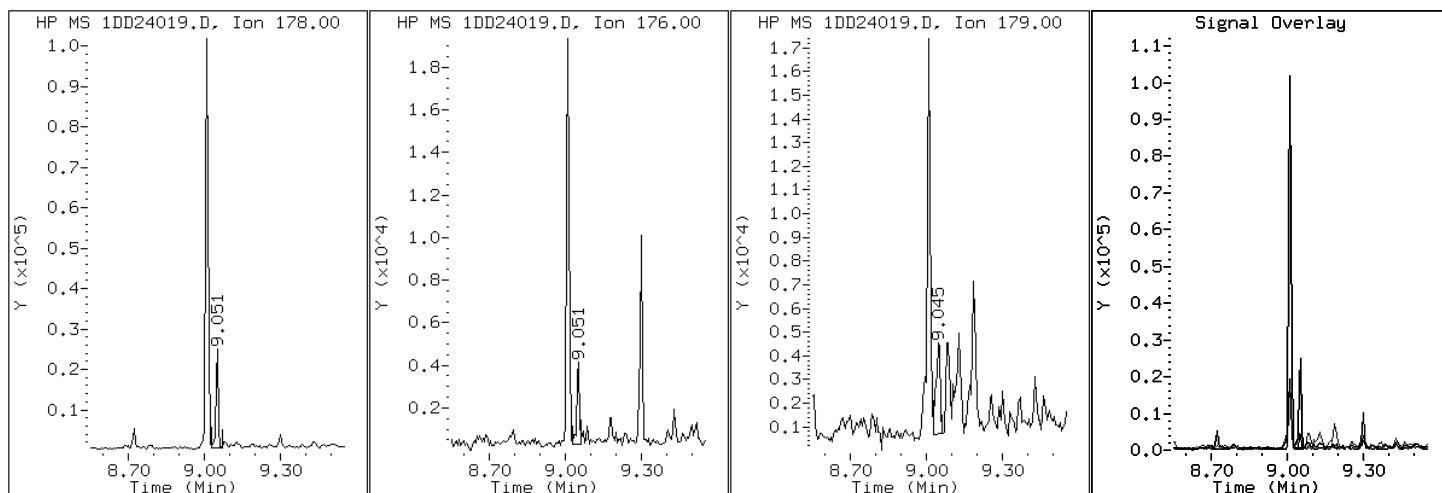
Client ID: CV1219B-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-22-A

Operator: SCC

11 Anthracene



Data File: 1DD24019.D

Date: 24-APR-2013 18:48

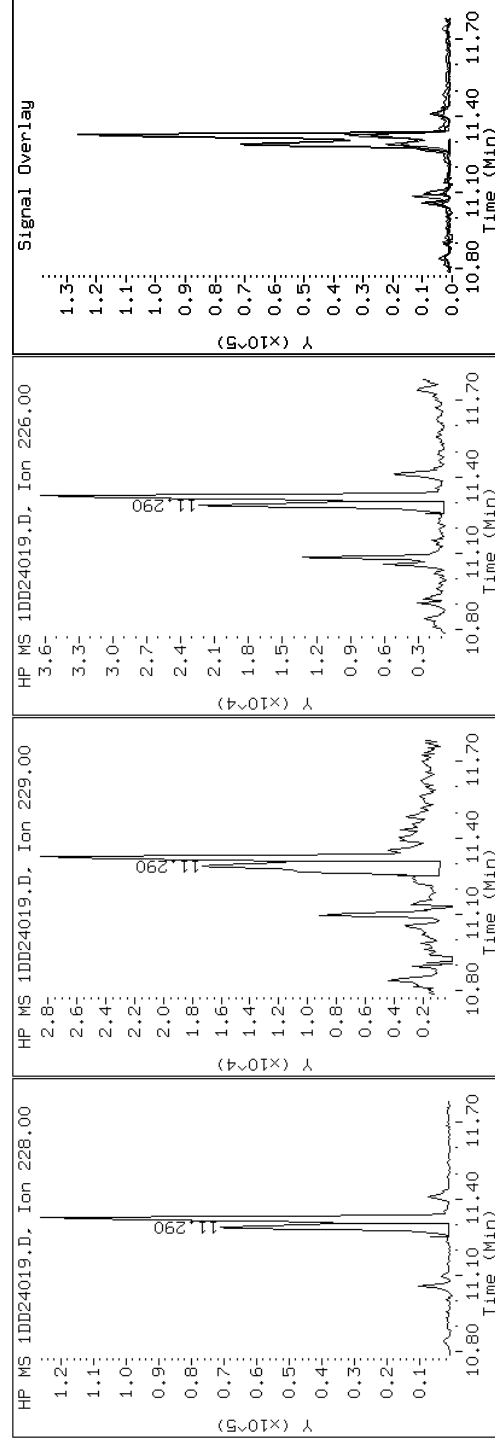
Client ID: CV1219B-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-22-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD24019.D

Date: 24-APR-2013 18:48

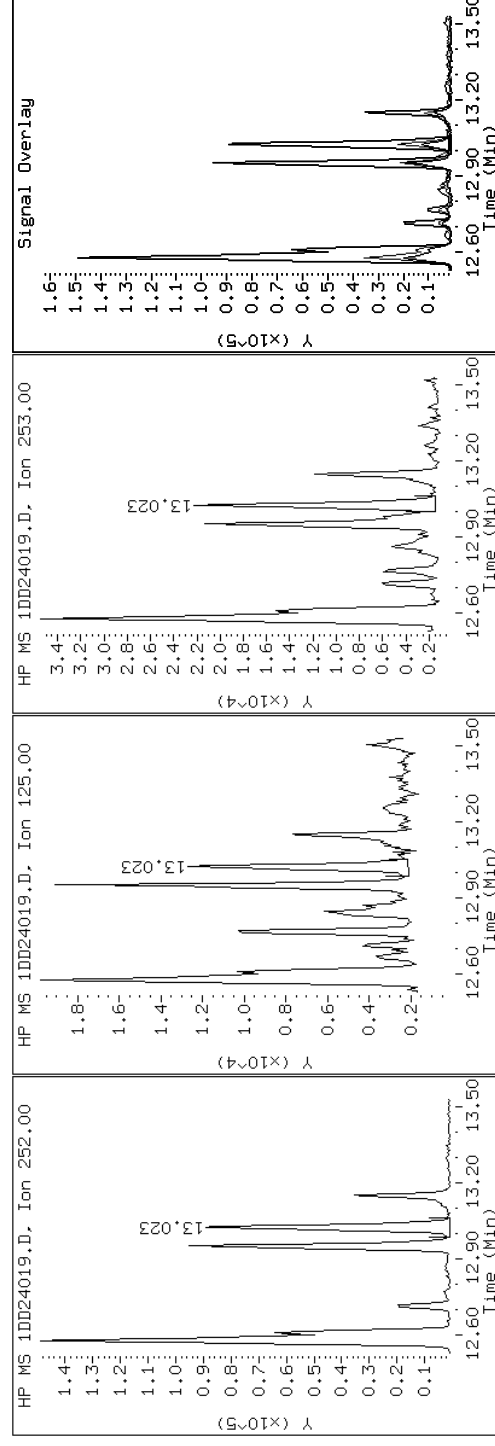
Client ID: CV1219B-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-22-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD24019.D

Date: 24-APR-2013 18:48

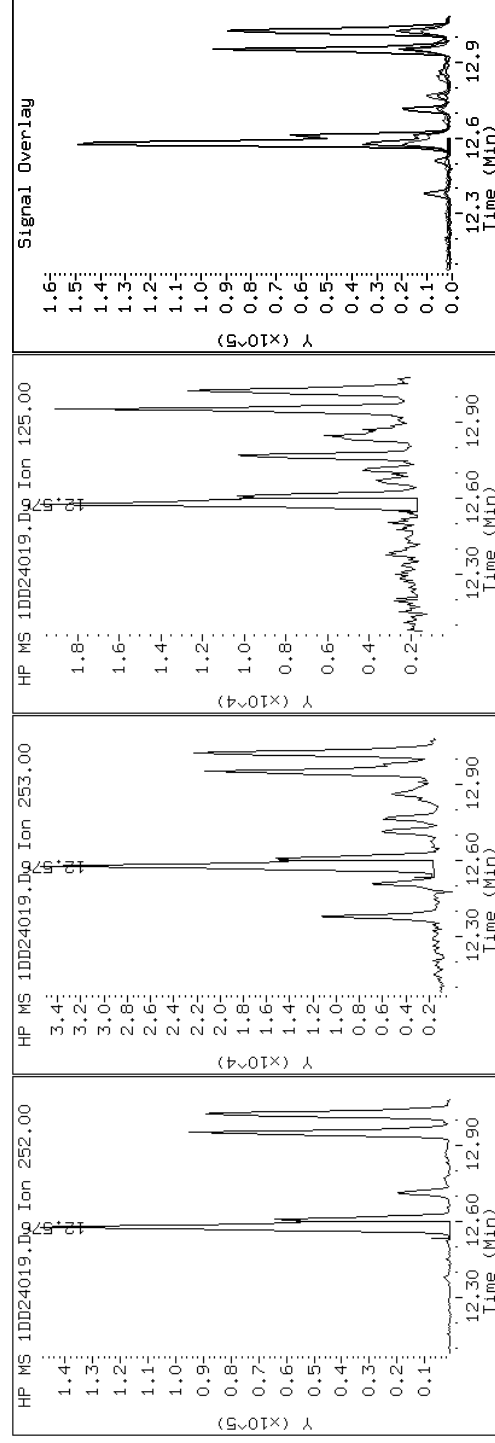
Client ID: CV1219B-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-22-A

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD24019.D

Date: 24-APR-2013 18:48

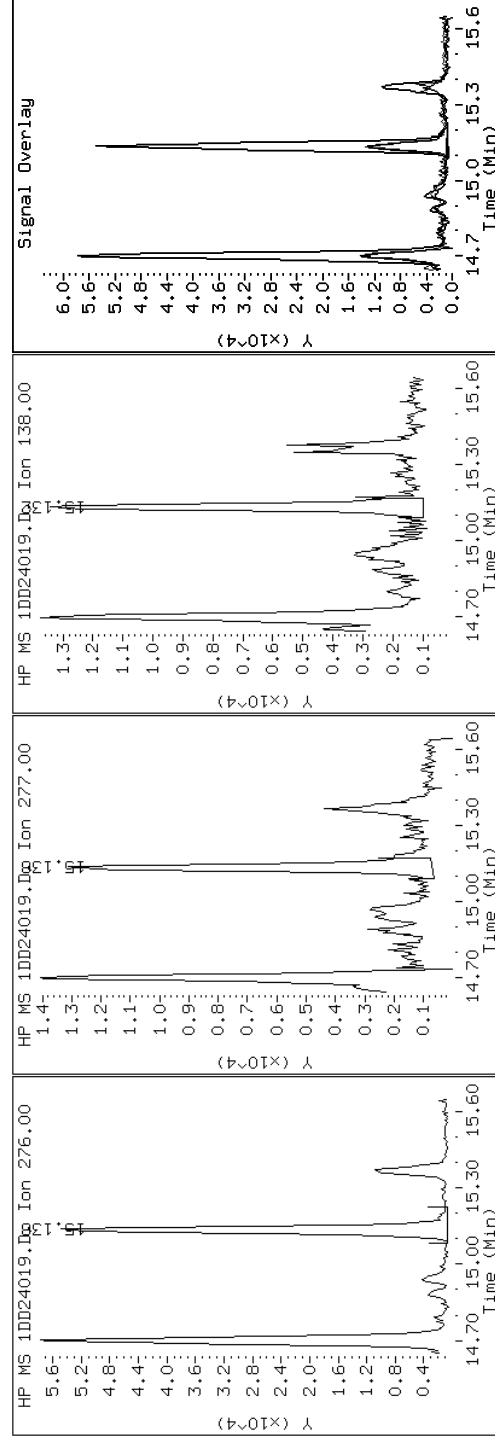
Client ID: CV1219B-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-22-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD24019.D

Date: 24-APR-2013 18:48

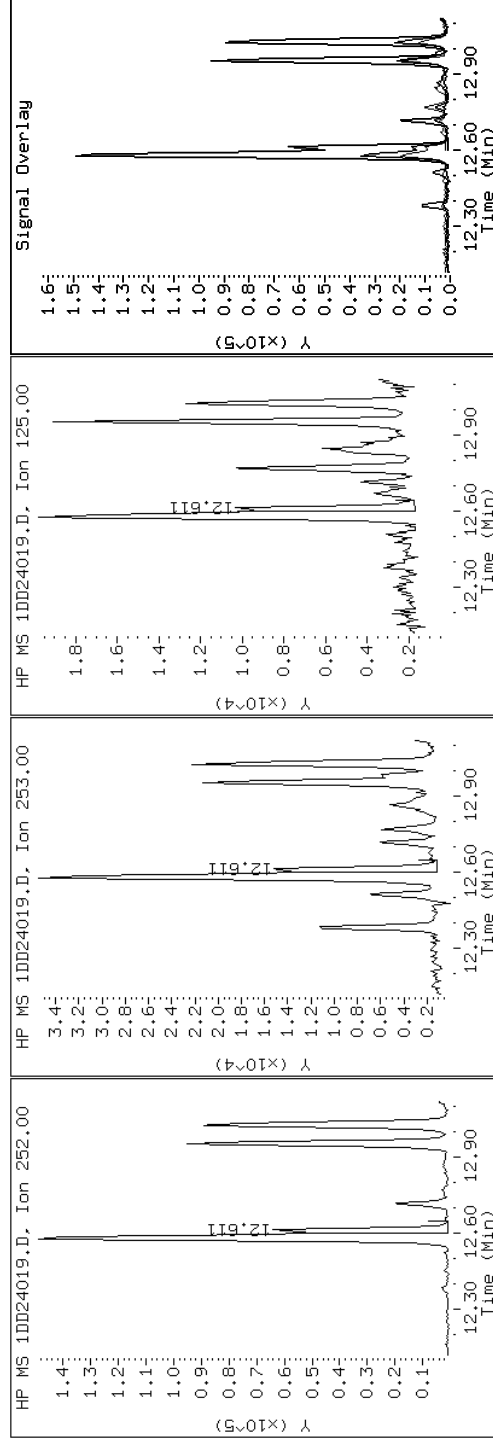
Client ID: CV1219B-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-22-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD24019.D

Date: 24-APR-2013 18:48

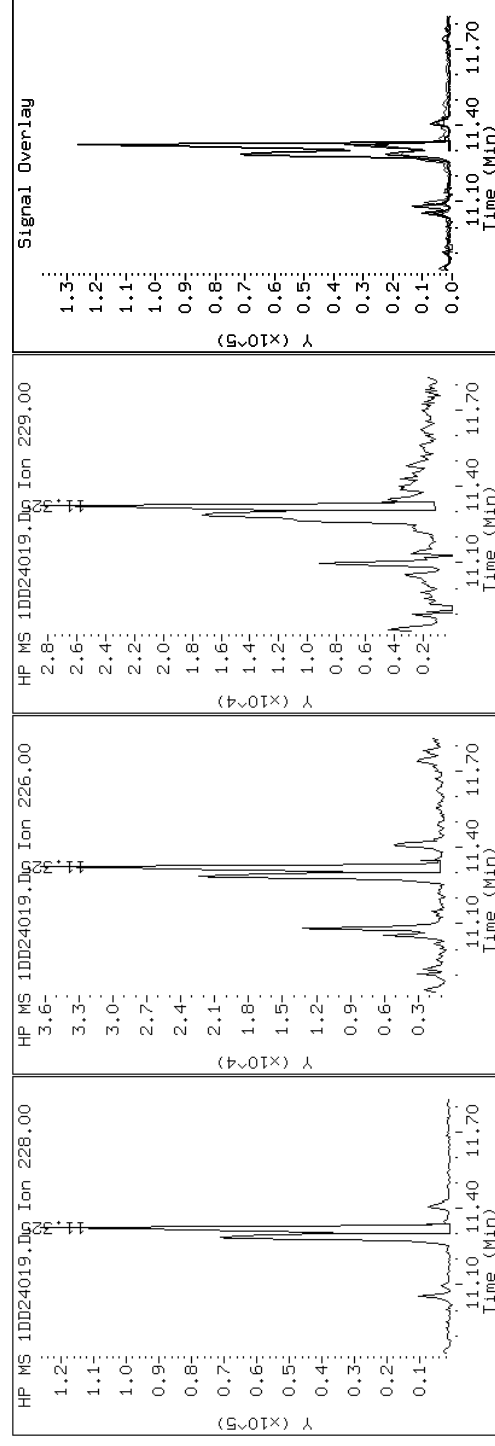
Client ID: CV1219B-CS

Sample Info: 680-89459-A-22-A

Instrument: BSMSD.i

Operator: SCC

18 Chrysene



Data File: 1DD24019.D

Date: 24-APR-2013 18:48

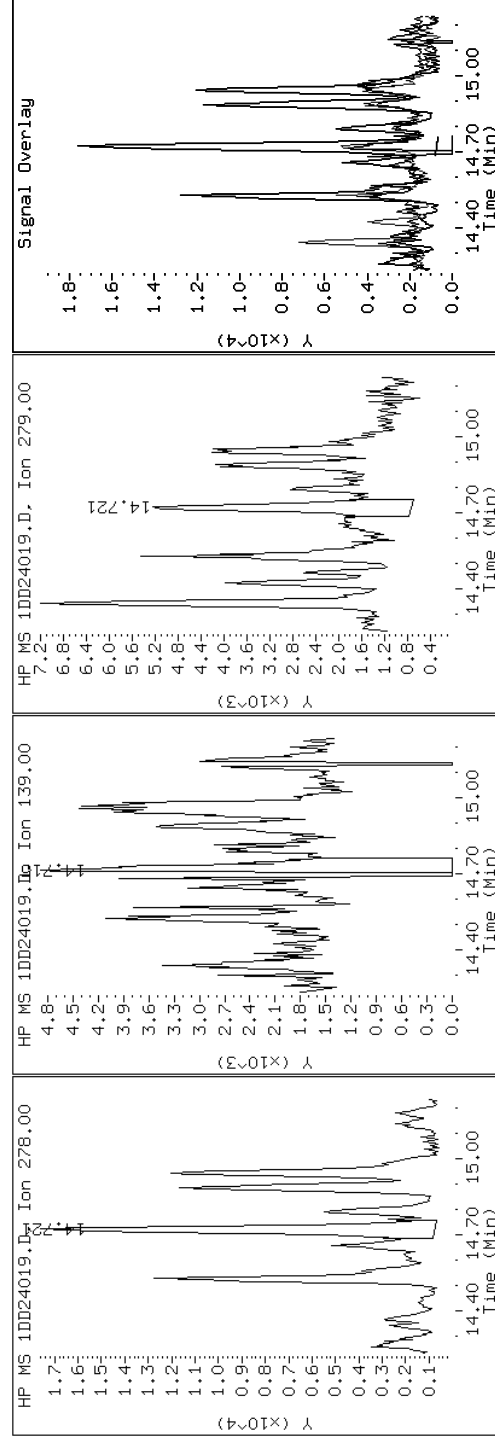
Client ID: CV1219B-CS

Sample Info: 680-89459-A-22-A

Instrument: BSMSD.i

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD24019.D

Date: 24-APR-2013 18:48

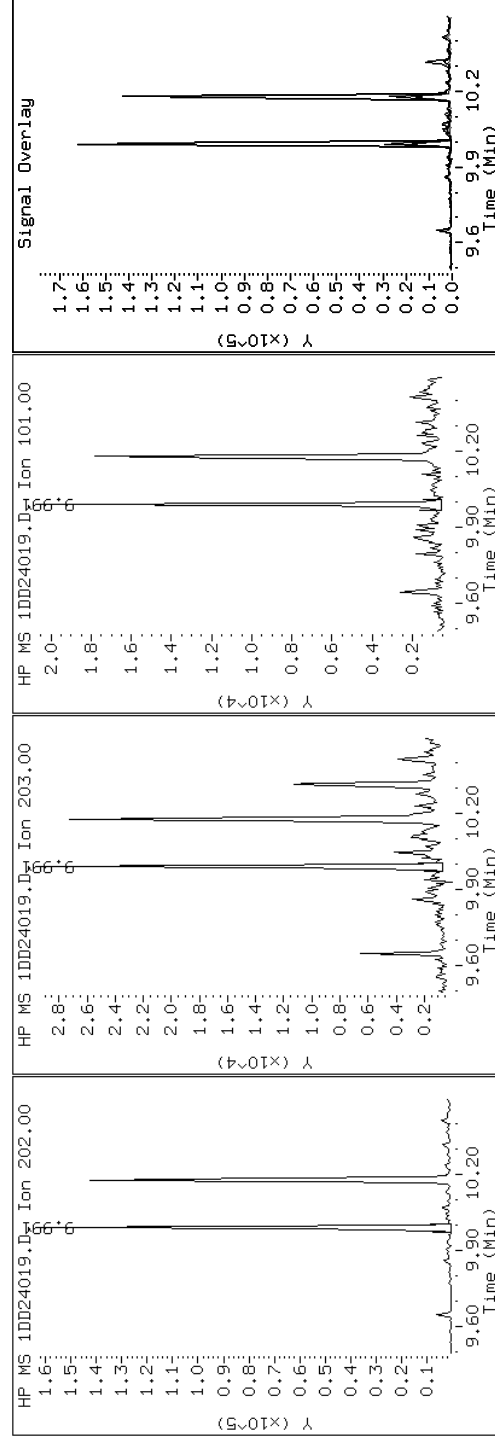
Client ID: CV1219B-CS

Sample Info: 680-89459-A-22-A

Instrument: BSMDS.i

Operator: SCC

14 Fluoranthene



Data File: 1DD24019.D

Date: 24-APR-2013 18:48

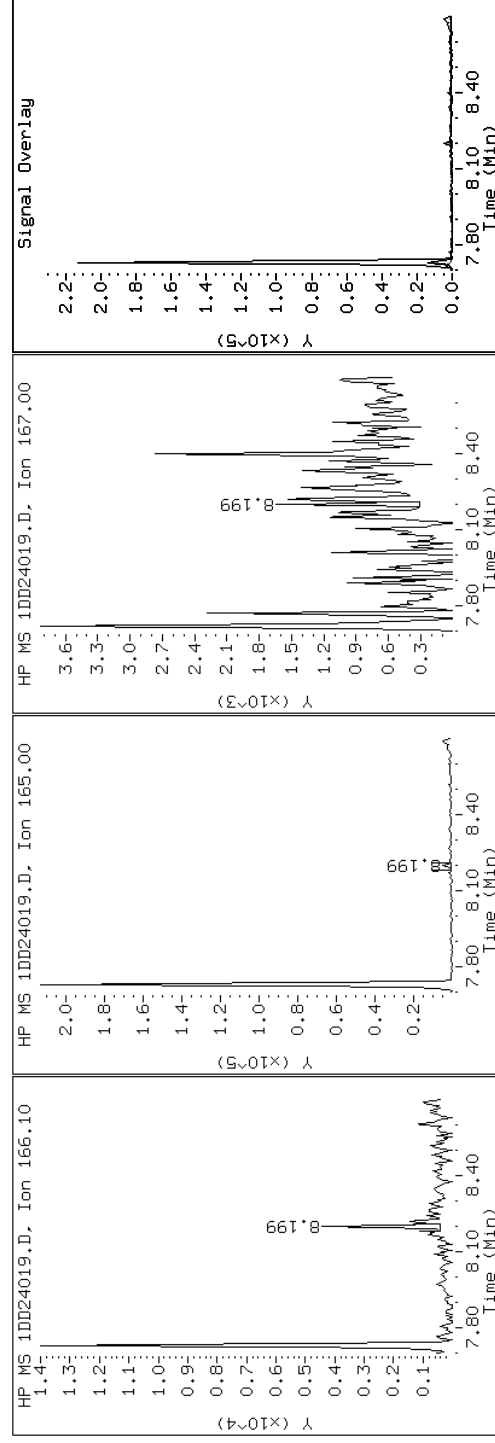
Client ID: CV1219B-CS

Sample Info: 680-89459-A-22-A

Instrument: BSMDS.i

Operator: SCC

8 Fluorene



Data File: 1DD24019.D

Date: 24-APR-2013 18:48

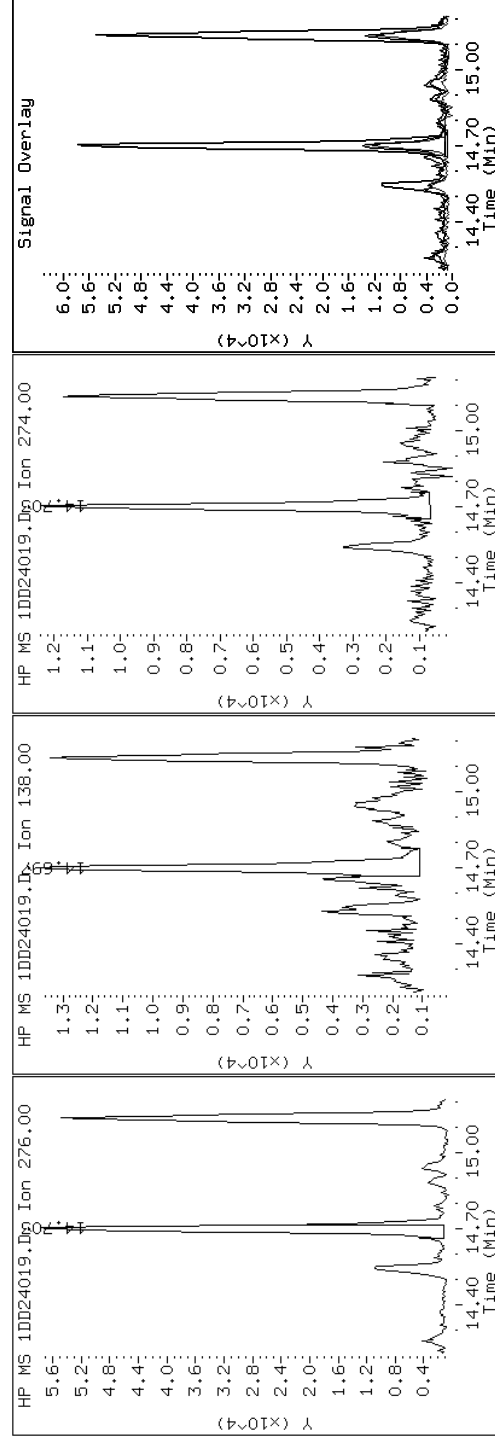
Client ID: CV1219B-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-22-A

Operator: SCC

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



Data File: 1DD24019.D

Date: 24-APR-2013 18:48

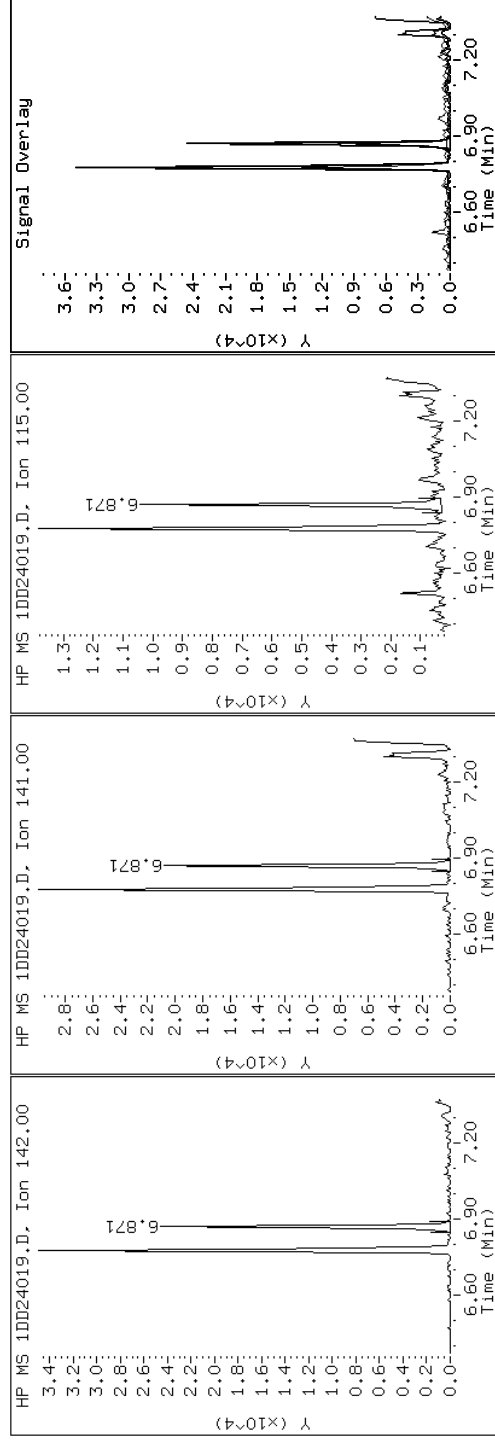
Client ID: CV1219B-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-22-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD24019.D

Date: 24-APR-2013 18:48

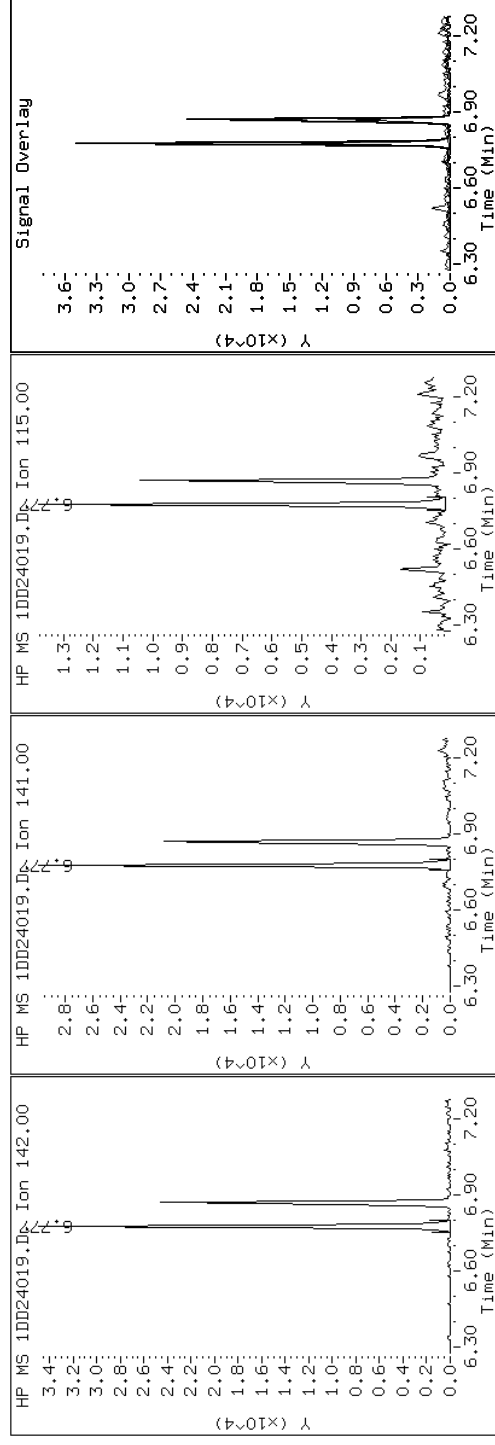
Client ID: CV1219B-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-22-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD24019.D

Date: 24-APR-2013 18:48

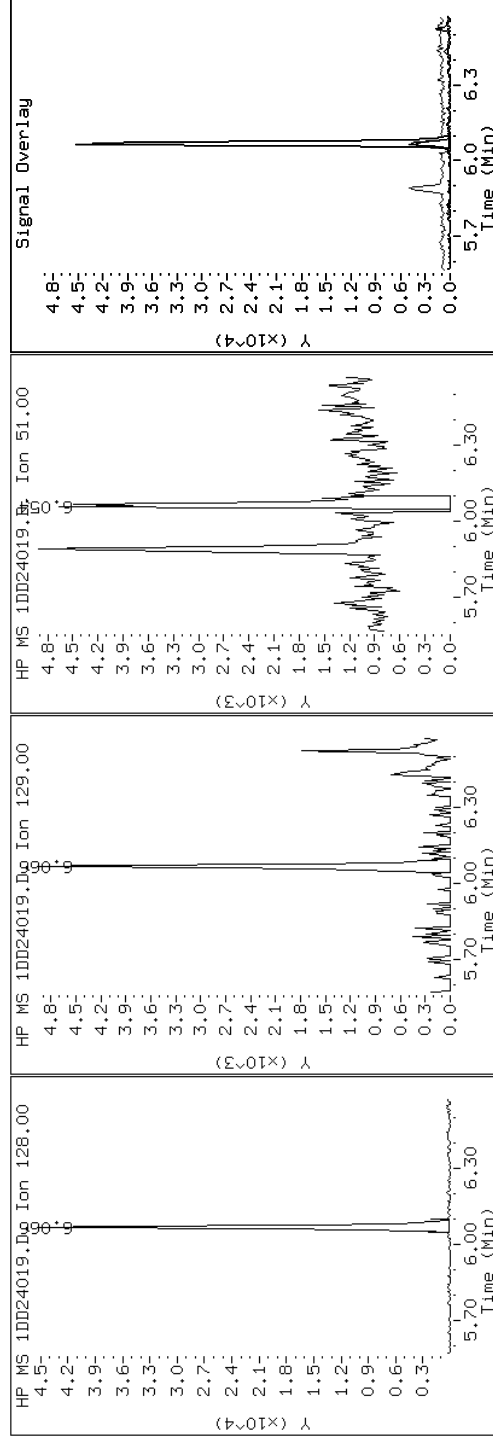
Client ID: CV1219B-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-22-A

Operator: SCC

2 Naphthalene



Data File: 1DD24019.D

Date: 24-APR-2013 18:48

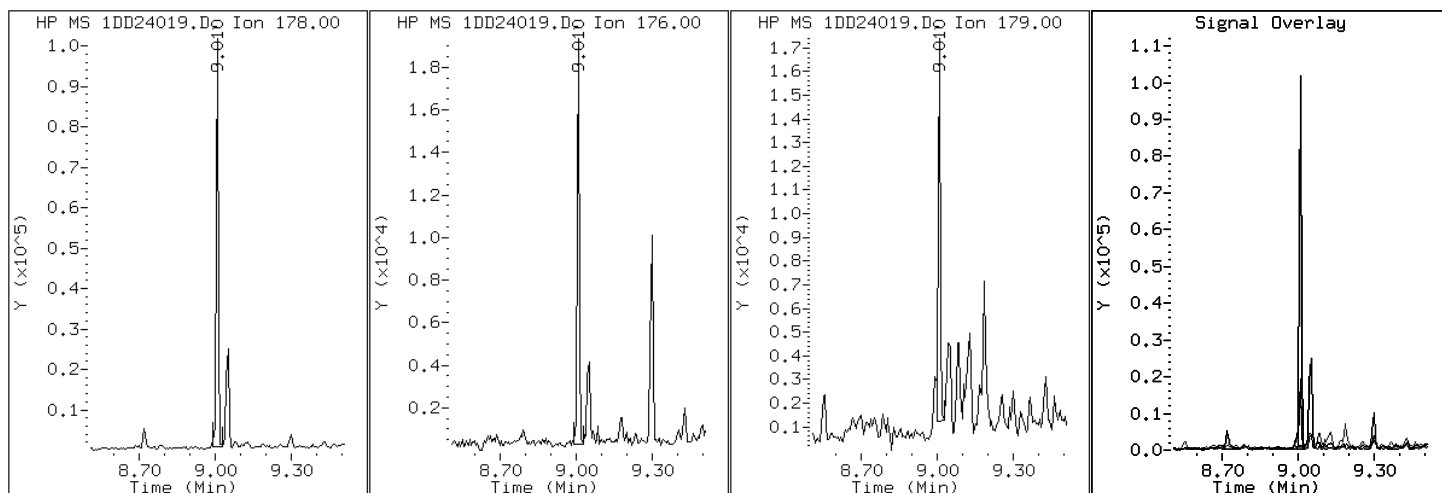
Client ID: CV1219B-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-22-A

Operator: SCC

10 Phenanthrene



Data File: 1DD24019.D

Date: 24-APR-2013 18:48

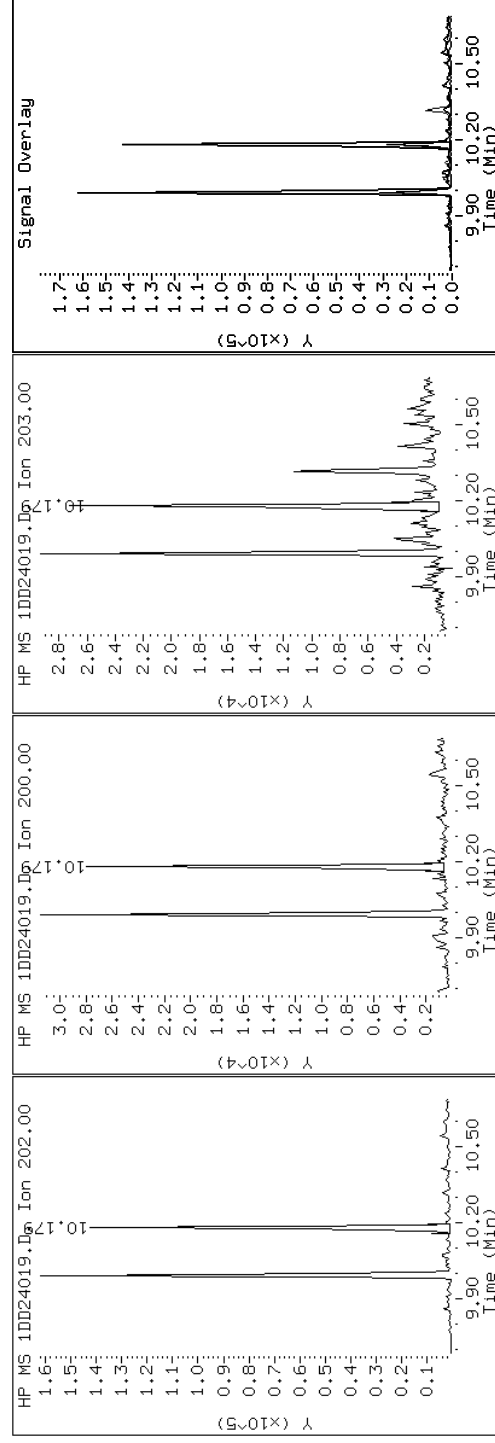
Client ID: CV1219B-CS

Sample Info: 680-89459-A-22-A

Instrument: BSMSD.i

Operator: SCC

15 Pyrene

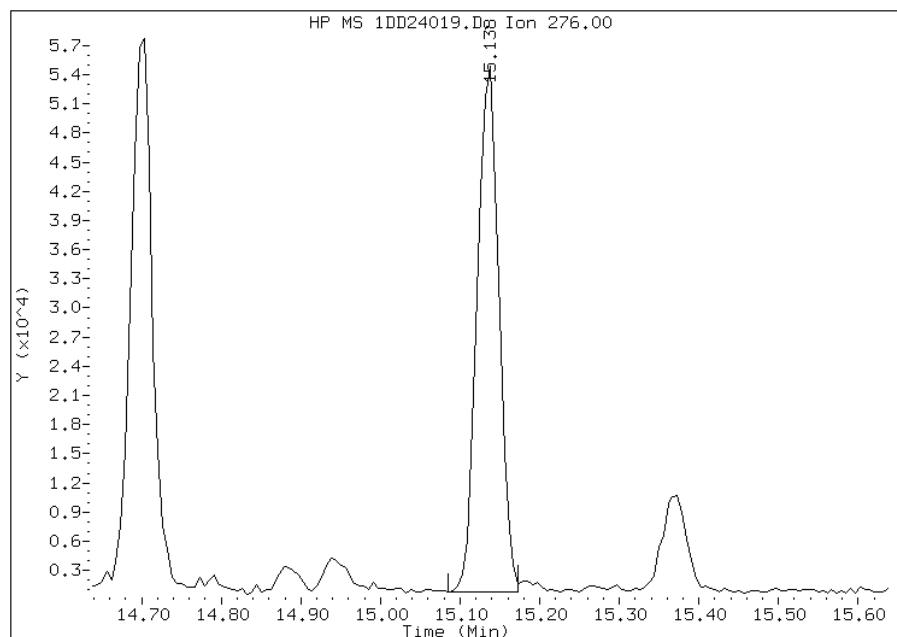


Manual Integration Report

Data File: 1DD24019.D
Inj. Date and Time: 24-APR-2013 18:48
Instrument ID: BSMSD.i
Client ID: CV1219B-CS
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/25/2013

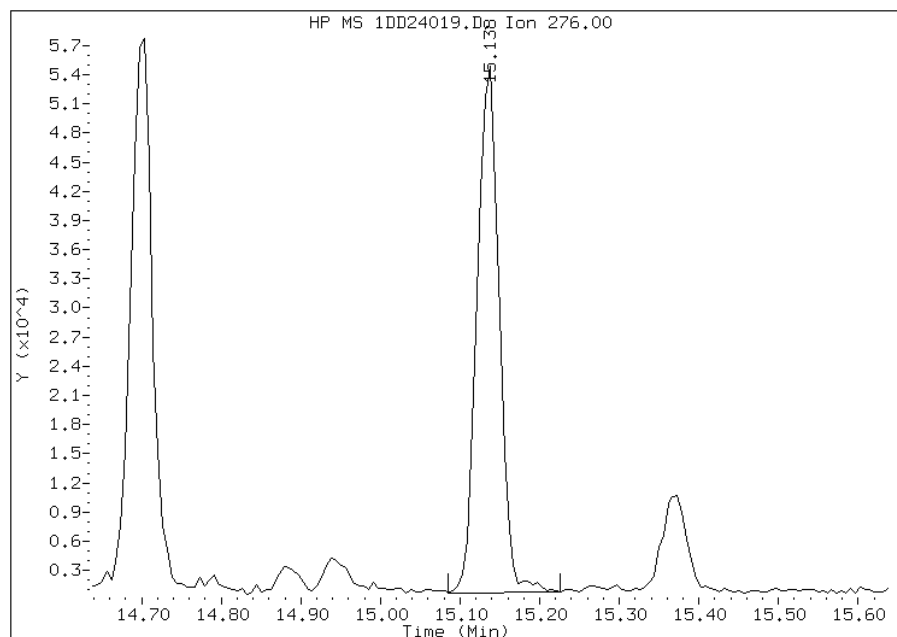
Processing Integration Results

RT: 15.14
Response: 102608
Amount: 2
Conc: 146



Manual Integration Results

RT: 15.14
Response: 104493
Amount: 2
Conc: 149



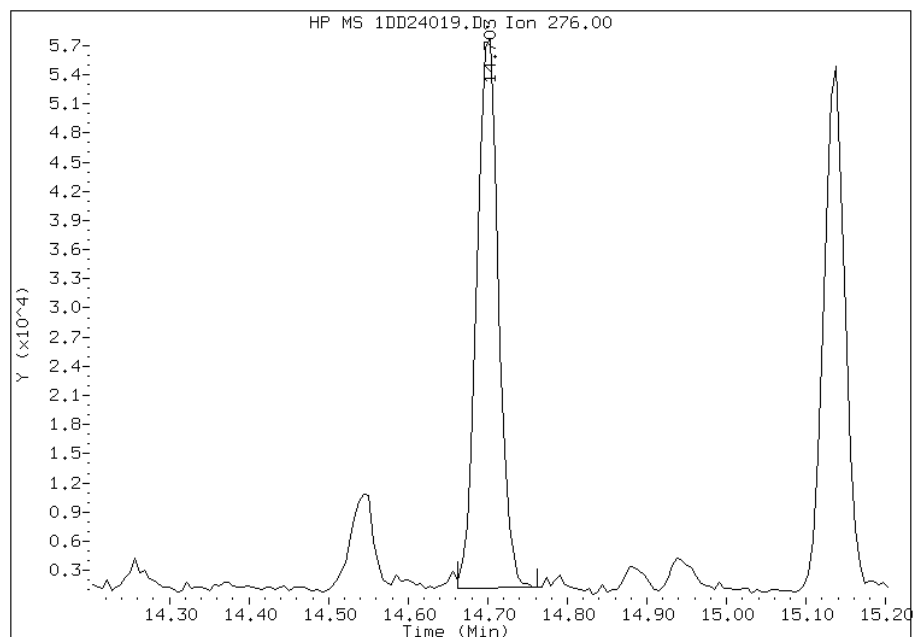
Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DD24019.D
Inj. Date and Time: 24-APR-2013 18:48
Instrument ID: BSMSD.i
Client ID: CV1219B-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

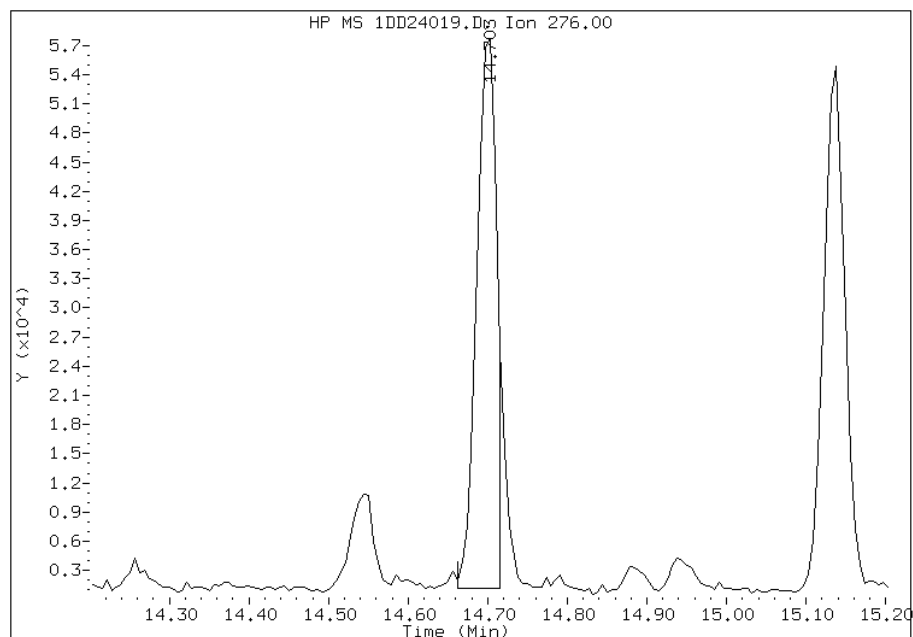
Processing Integration Results

RT: 14.70
Response: 107429
Amount: 2
Conc: 147



Manual Integration Results

RT: 14.70
Response: 98134
Amount: 2
Conc: 135



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:13
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-2</u>
SDG No.: <u>68089459-2</u>	
Client Sample ID: <u>CV1344A-CS</u>	Lab Sample ID: <u>680-89459-23</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD23024.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 13:10</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 15:35</u>
Sample wt/vol: <u>14.91(g)</u>	Date Analyzed: <u>04/23/2013 21:38</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>4</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>23.2</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136756</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	63	J	210	26
120-12-7	Anthracene	99		44	22
56-55-3	Benzo[a]anthracene	380		42	20
50-32-8	Benzo[a]pyrene	230		55	27
205-99-2	Benzo[b]fluoranthene	400		64	32
191-24-2	Benzo[g,h,i]perylene	130		100	23
207-08-9	Benzo[k]fluoranthene	150		42	19
218-01-9	Chrysene	420		47	24
53-70-3	Dibenz(a,h)anthracene	44	J	100	21
206-44-0	Fluoranthene	550		100	21
86-73-7	Fluorene	26	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	110		100	37
90-12-0	1-Methylnaphthalene	240		210	23
91-57-6	2-Methylnaphthalene	94	J	210	37
91-20-3	Naphthalene	71	J	210	23
85-01-8	Phenanthrene	900		42	20
129-00-0	Pyrene	440		100	19

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23024.D
 Lab Smp Id: 680-89459-A-23-A Client Smp ID: CV1344A-CS
 Inj Date : 23-APR-2013 21:38
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89459-A-23-A
 Misc Info : 680-89459-A-23-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
 Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 23
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.910	Weight Extracted
M	23.226	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.055	6.051	(1.000)		1859719	40.0000	
* 6 Acenaphthene-d10	164		7.735	7.732	(1.000)		1065378	40.0000	
* 9 Phenanthrene-d10	188		8.998	8.995	(1.000)		1733628	40.0000	
\$ 13 o-Terphenyl	230		9.304	9.306	(1.034)		35393	1.35495	470
* 17 Chrysene-d12	240		11.313	11.304	(1.000)		2062405	40.0000	
* 22 Perylene-d12	264		13.141	13.120	(1.000)		2158431	40.0000	
2 Naphthalene	128		6.072	6.075	(1.003)		9409	0.20355	71
3 2-Methylnaphthalene	142		6.783	6.780	(1.120)		8007	0.26834	94
4 1-Methylnaphthalene	142		6.877	6.874	(1.136)		19608	0.69585	240
5 Acenaphthylene	152		7.606	7.608	(0.983)		8163	0.18103	63
8 Fluorene	166		8.205	8.208	(1.061)		2453	0.07442	26(Q)
10 Phenanthrene	178		9.016	9.013	(1.002)		123501	2.58629	900
11 Anthracene	178		9.057	9.054	(1.007)		13433	0.28342	99
12 Carbazole	167		9.198	9.195	(1.022)		11489	0.27482	96

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
14 Fluoranthene	202	9.997	10.000	(1.111)	77529	1.57774	550
15 Pyrene	202	10.185	10.188	(0.900)	77433	1.25025	440
16 Benzo(a)anthracene	228	11.296	11.287	(0.998)	65021	1.09044	380
18 Chrysene	228	11.331	11.328	(1.002)	67993	1.21611	420
19 Benzo(b)fluoranthene	252	12.594	12.585	(0.958)	61493	1.14049	400
20 Benzo(k)fluoranthene	252	12.618	12.620	(0.960)	23909	0.42091	150
21 Benzo(a)pyrene	252	13.041	13.032	(0.992)	36424	0.67234	230
23 Indeno(1,2,3-cd)pyrene	276	14.715	14.706	(1.120)	17952	0.31077	110(M)
24 Dibenzo(a,h)anthracene	278	14.733	14.735	(1.121)	6926	0.12732	44
25 Benzo(g,h,i)perylene	276	15.150	15.141	(1.153)	20770	0.37342	130

QC Flag Legend

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

Data File: 1DD23024.D

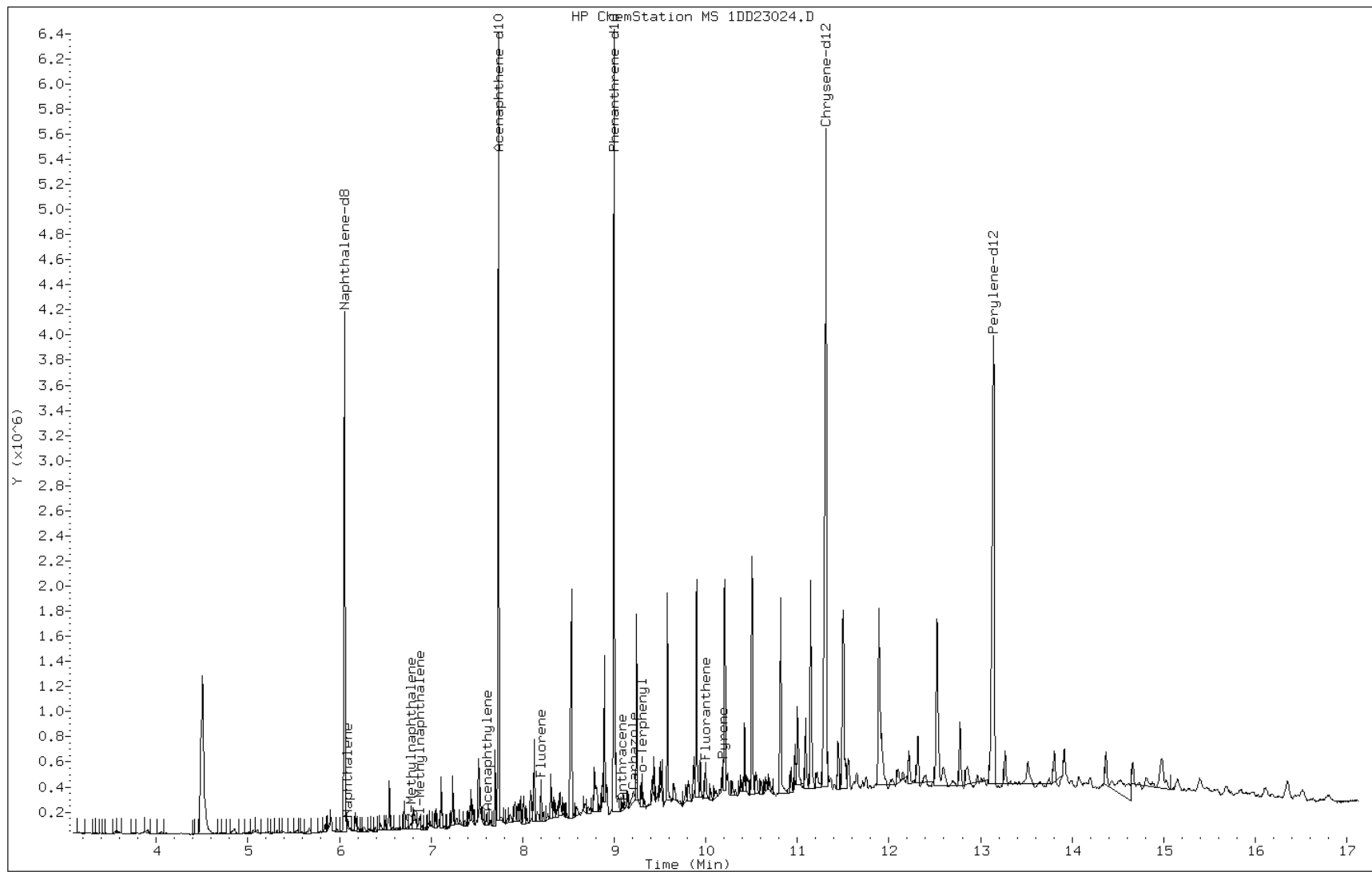
Date: 23-APR-2013 21:38

Client ID: CV1344A-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-23-A

Operator: SCC



Data File: 1DD23024.D

Date: 23-APR-2013 21:38

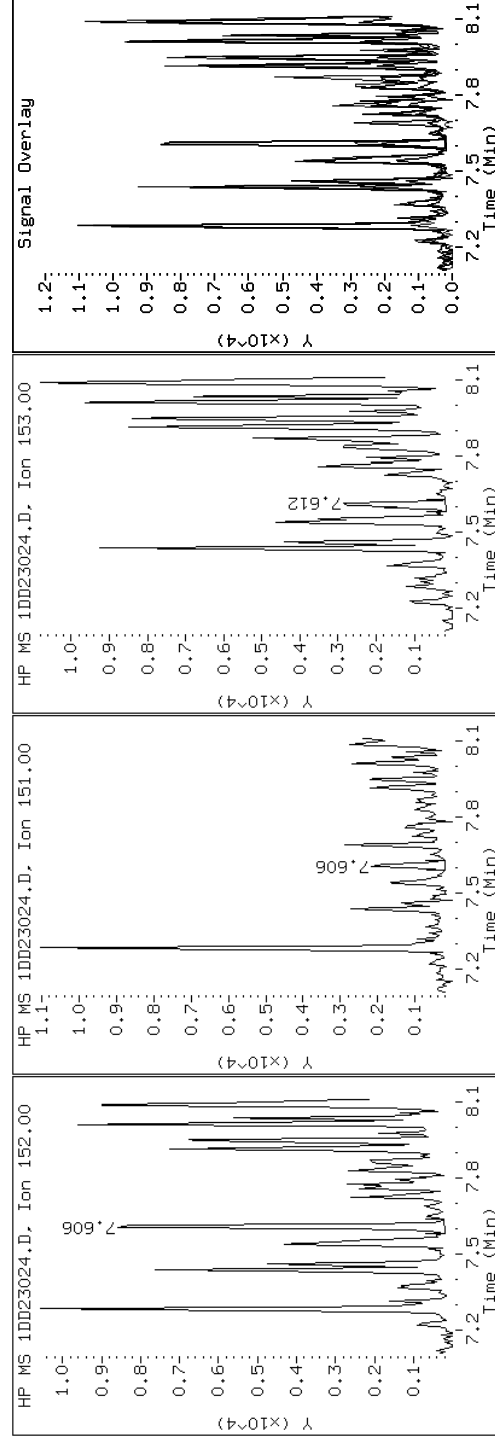
Client ID: CV1344A-CS

Sample Info: 680-89459-A-23-A

Instrument: BSMDS.i

Operator: SCC

5 Acenaphthylene



Data File: 1DD23024.D

Date: 23-APR-2013 21:38

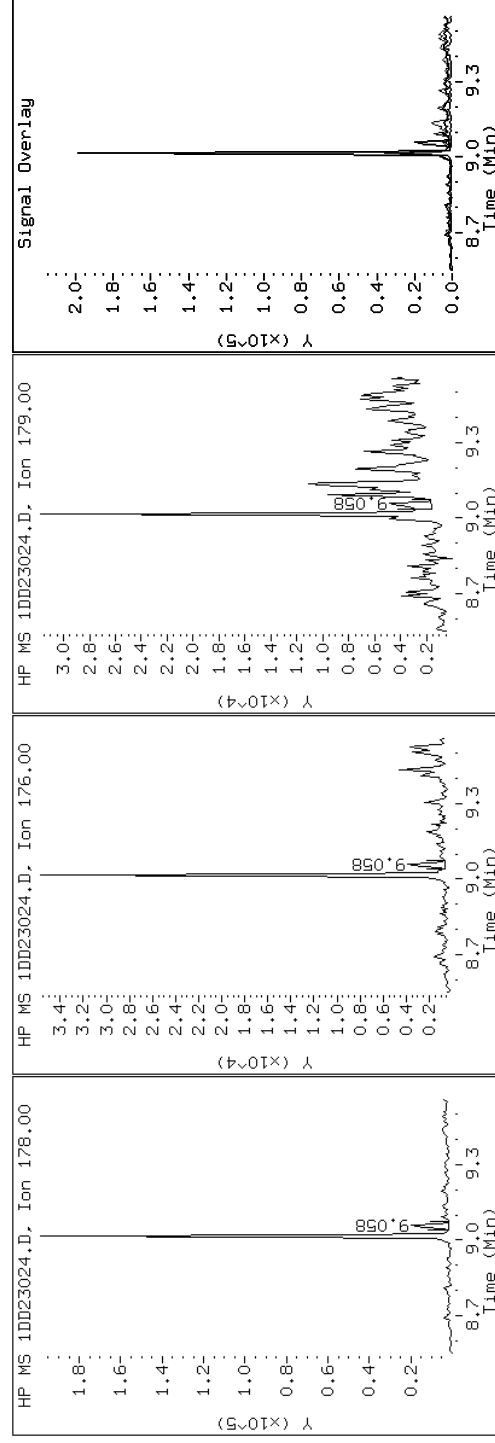
Client ID: CV1344A-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-23-A

Operator: SCC

11 Anthracene



Data File: 1DD23024.D

Date: 23-APR-2013 21:38

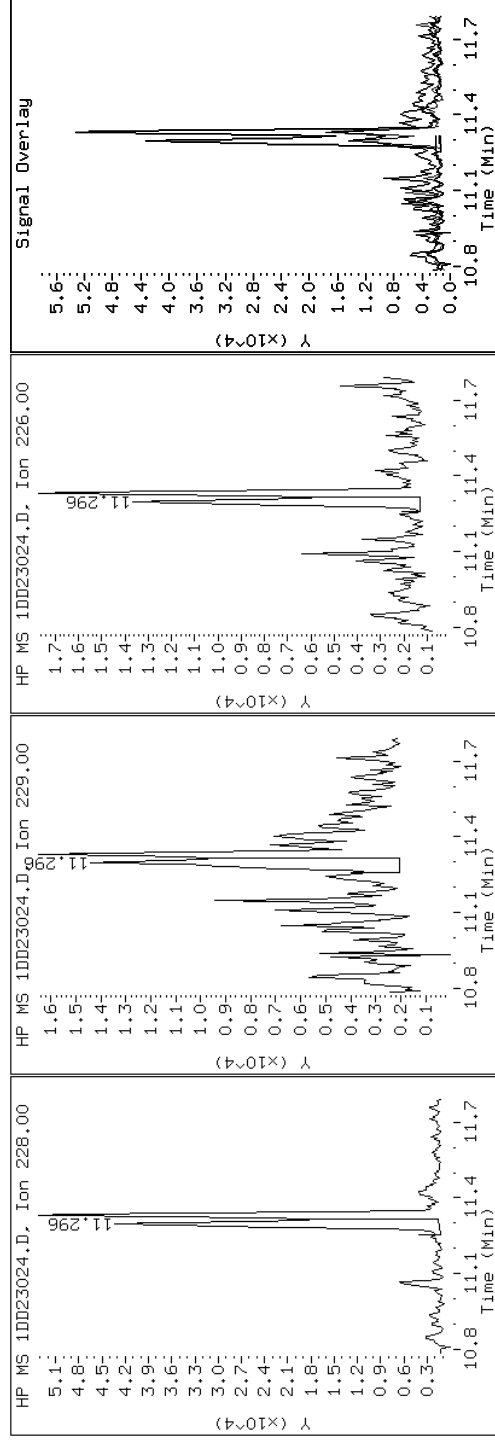
Client ID: CV1344A-CS

Sample Info: 680-89459-A-23-A

Instrument: BSMSD.i

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD23024.D

Date: 23-APR-2013 21:38

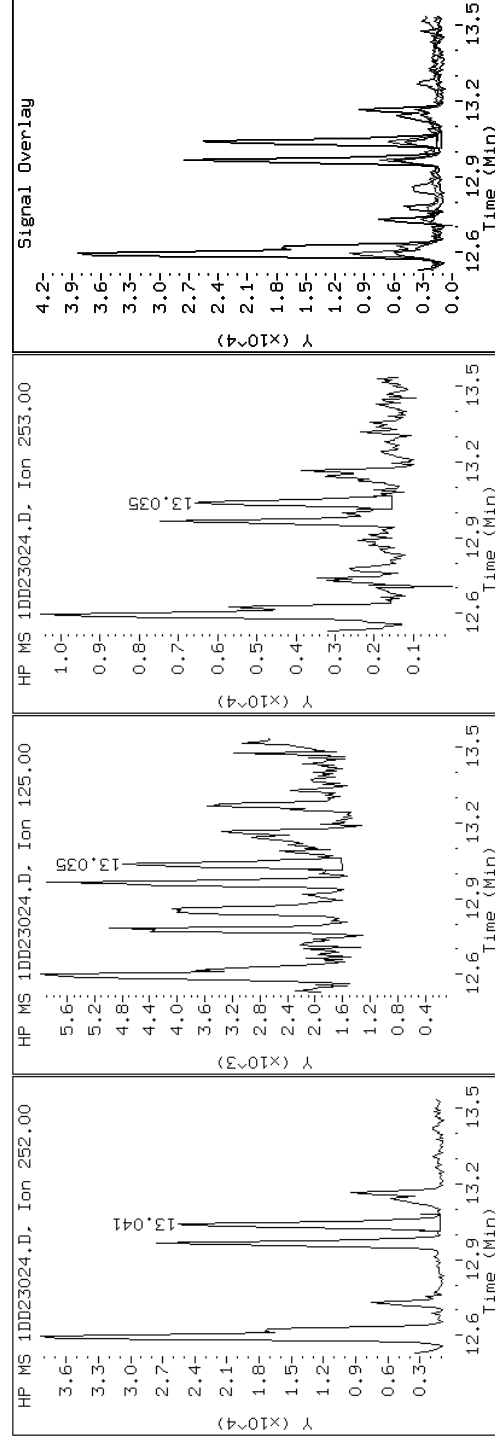
Client ID: CV1344A-CS

Sample Info: 680-89459-A-23-A

Instrument: BSMDS.i

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD23024.D

Date: 23-APR-2013 21:38

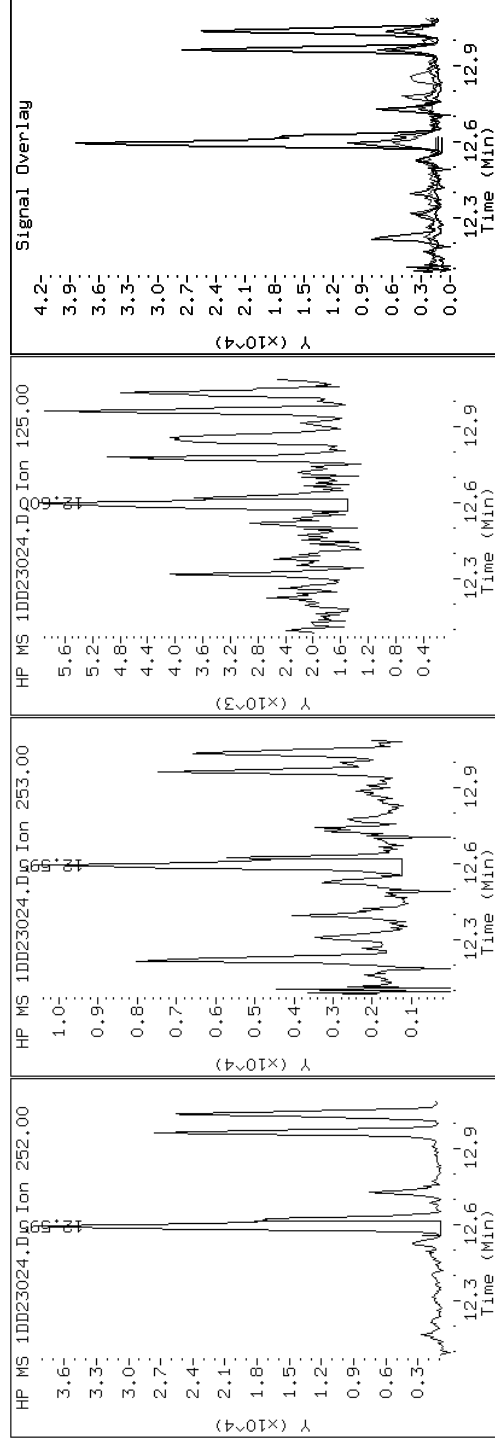
Client ID: CV1344A-CS

Sample Info: 680-89459-A-23-A

Instrument: BSMDS.i

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD23024.D

Date: 23-APR-2013 21:38

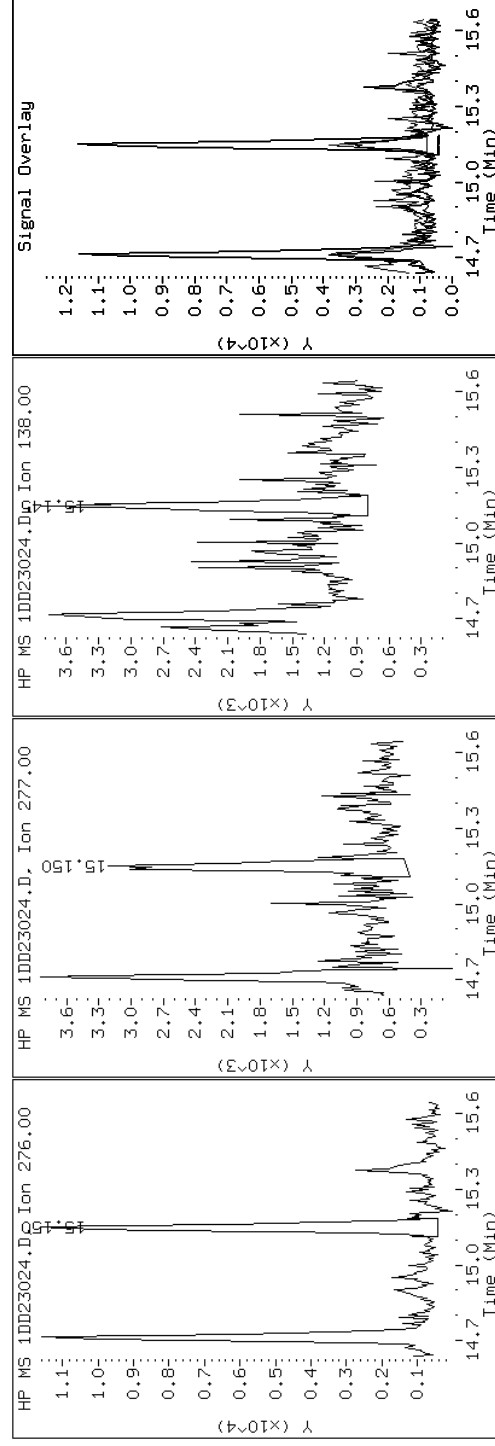
Client ID: CV1344A-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-23-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD23024.D

Date: 23-APR-2013 21:38

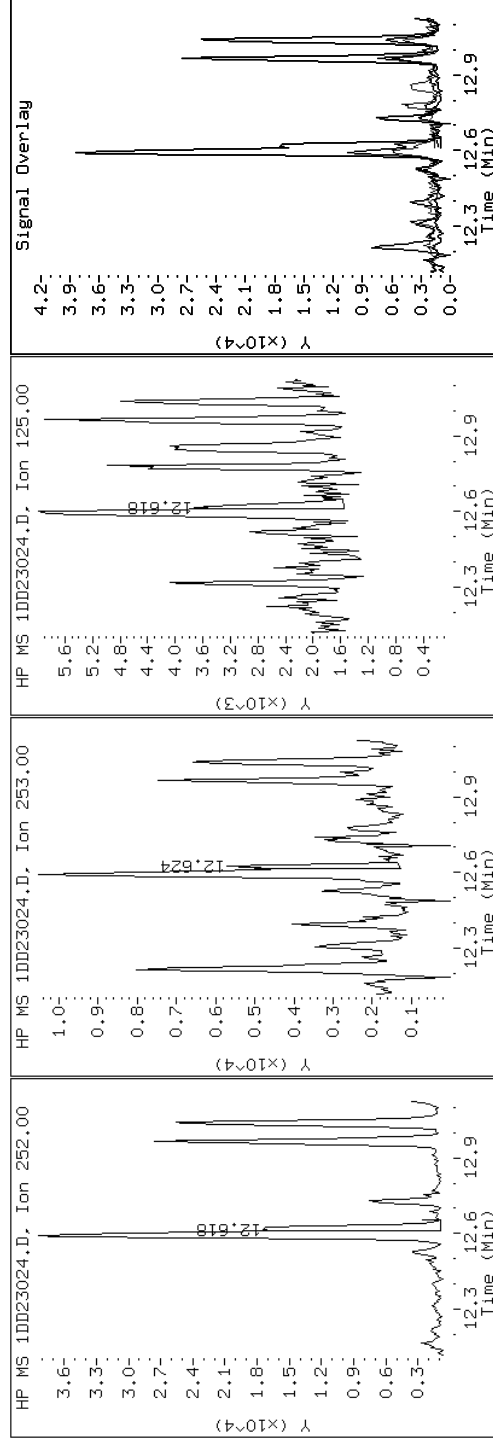
Client ID: CV1344A-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-23-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD23024.D

Date: 23-APR-2013 21:38

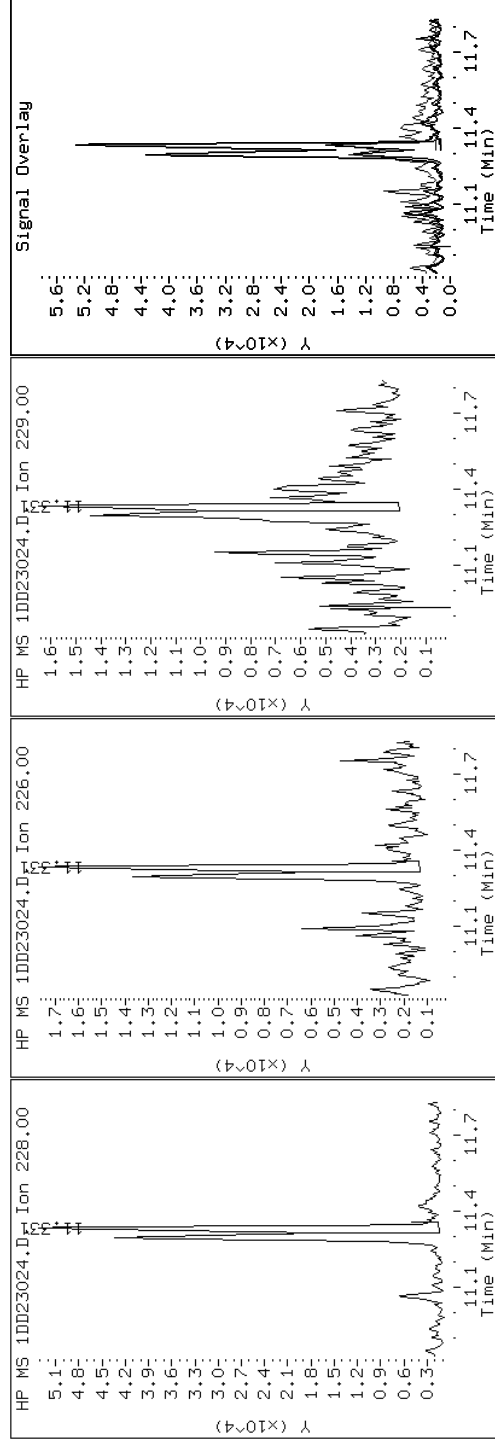
Client ID: CV1344A-CS

Sample Info: 680-89459-A-23-A

18 Chrysene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23024.D

Date: 23-APR-2013 21:38

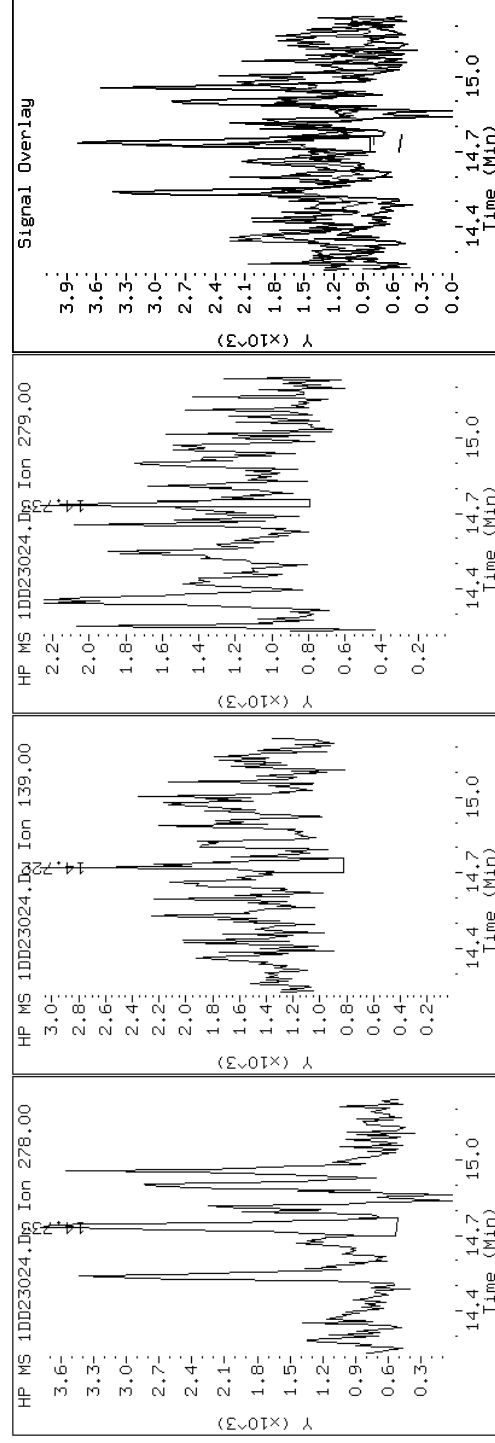
Client ID: CV1344A-CS

Sample Info: 680-89459-A-23-A

Instrument: BSMSD.i

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD23024.D

Date: 23-APR-2013 21:38

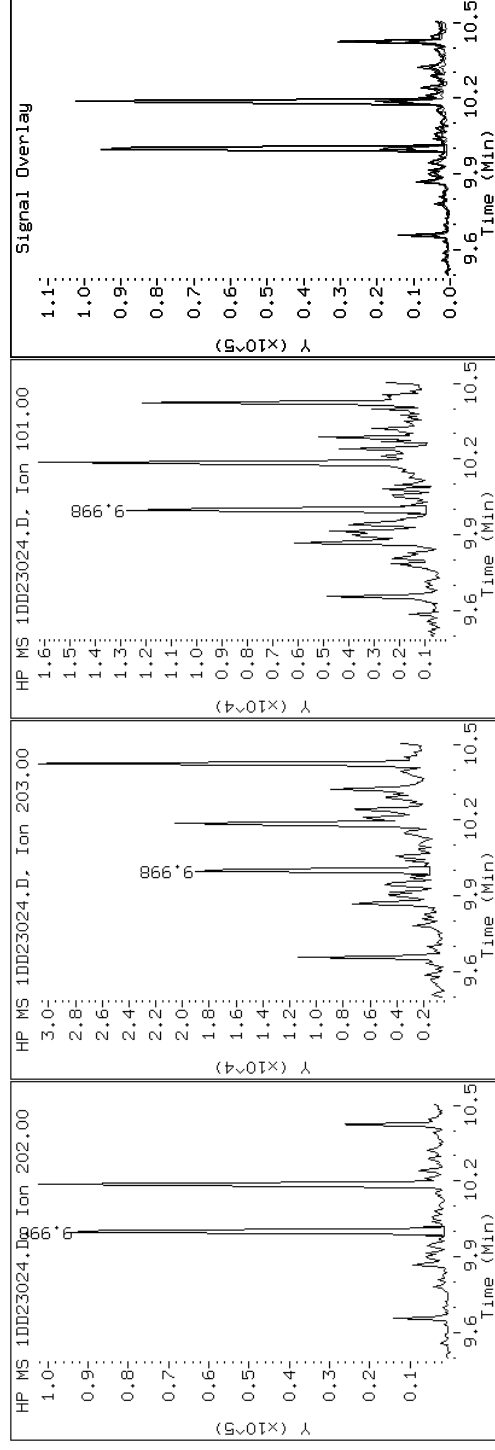
Client ID: CV1344A-CS

Sample Info: 680-89459-A-23-A

14 Fluoranthene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23024.D

Date: 23-APR-2013 21:38

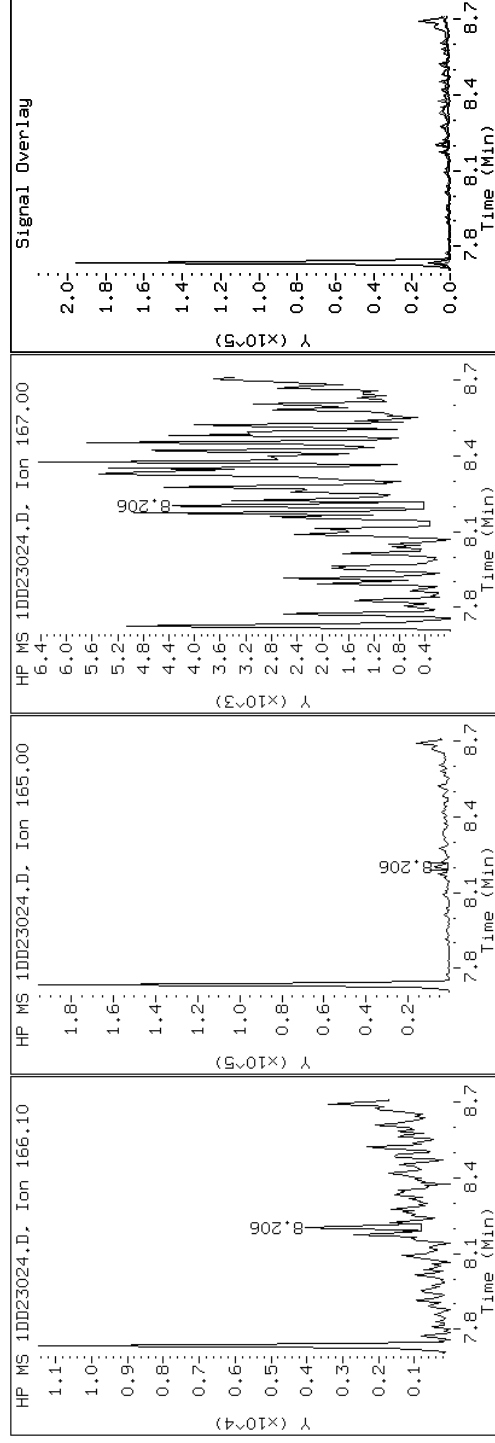
Client ID: CV1344A-CS

Sample Info: 680-89459-A-23-A

Instrument: BSMDS.i

Operator: SCC

8 Fluorene



Data File: 1DD23024.D

Date: 23-APR-2013 21:38

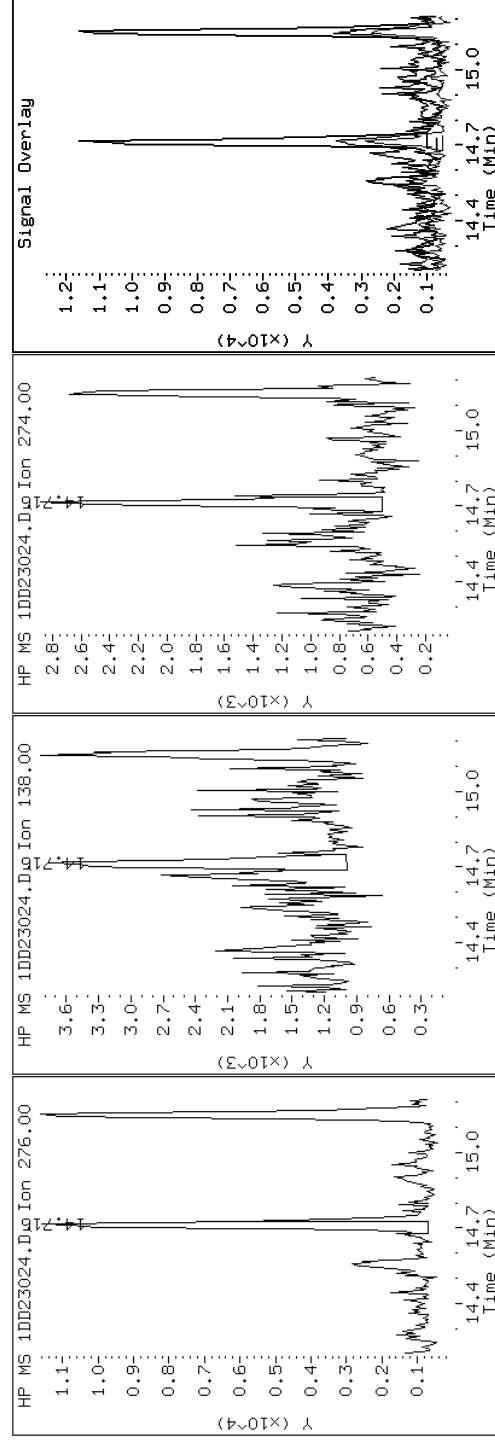
Client ID: CV1344A-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-23-A

Operator: SCC

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



Data File: 1DD23024.D

Date: 23-APR-2013 21:38

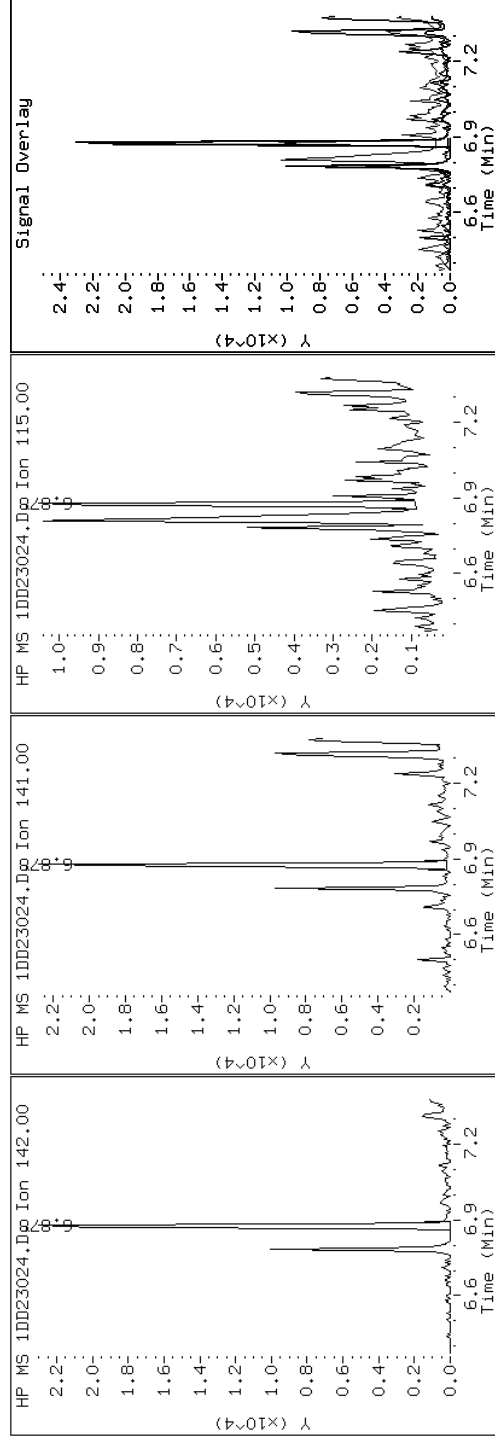
Client ID: CV1344A-CS

Sample Info: 680-89459-A-23-A

Instrument: BSMDS.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD23024.D

Date: 23-APR-2013 21:38

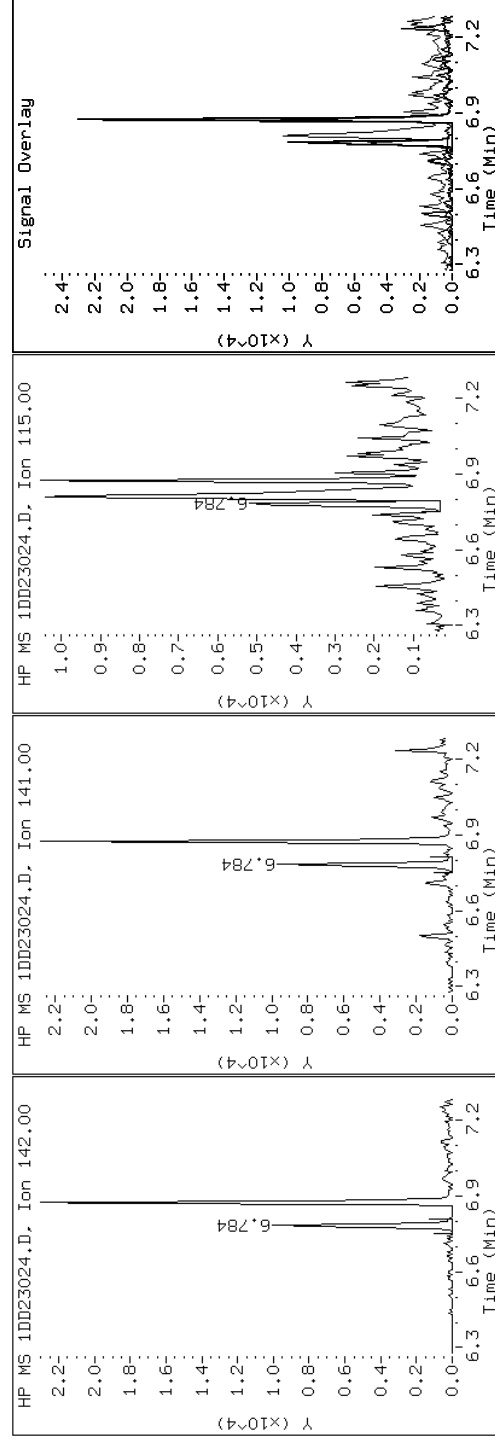
Client ID: CV1344A-CS

Sample Info: 680-89459-A-23-A

Instrument: BSMDS.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD23024.D

Date: 23-APR-2013 21:38

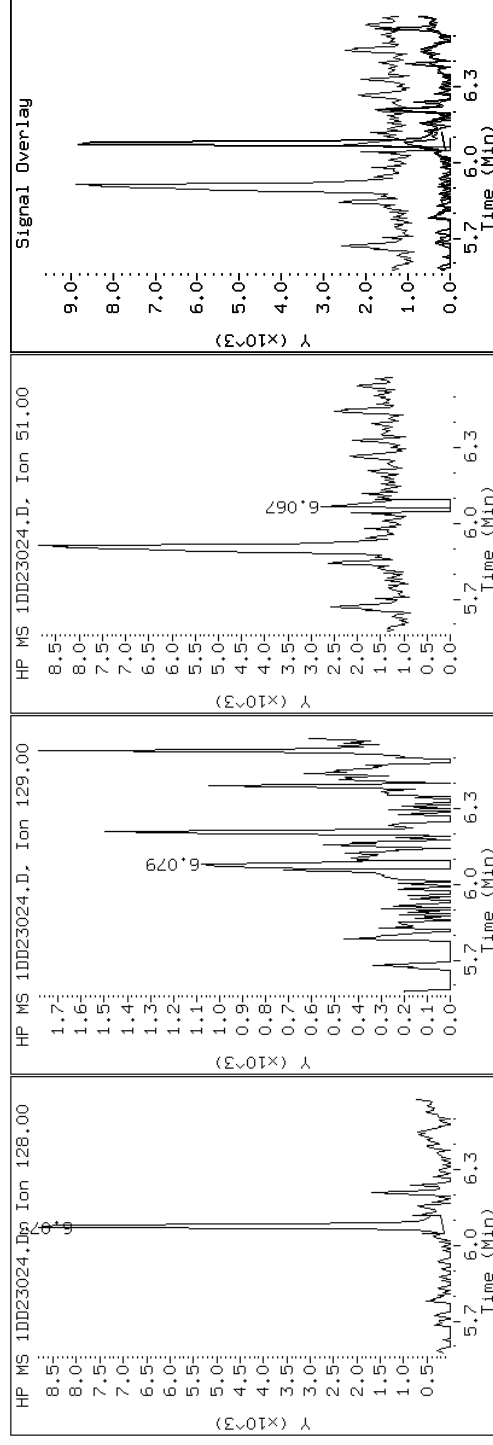
Client ID: CV1344A-CS

Sample Info: 680-89459-A-23-A

Instrument: BSMDS.i

Operator: SCC

2 Naphthalene



Data File: 1DD23024.D

Date: 23-APR-2013 21:38

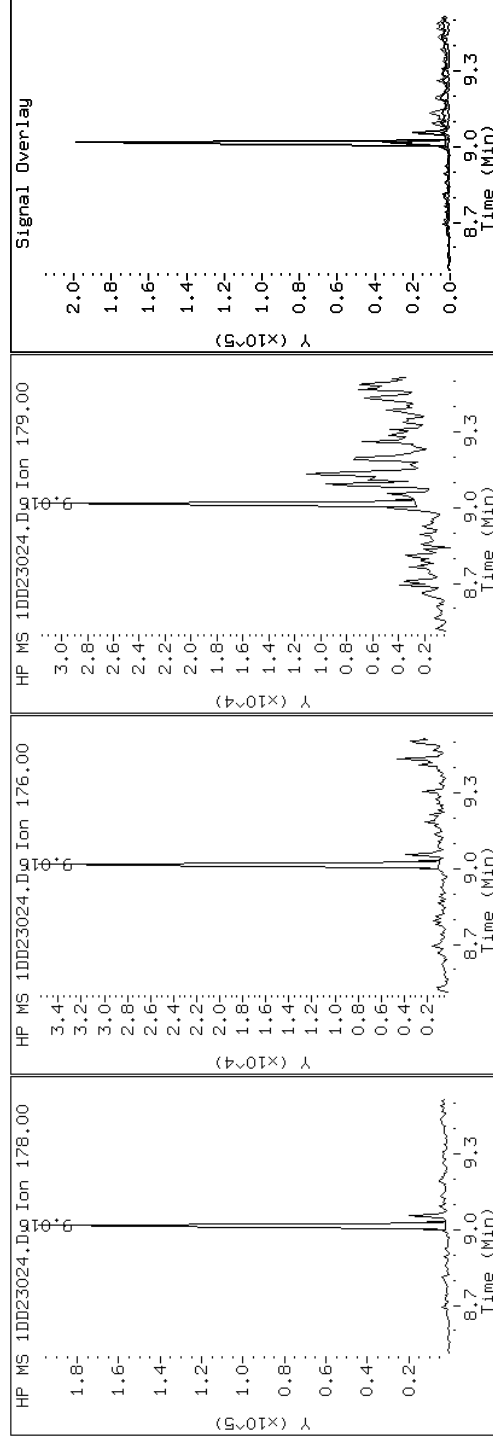
Client ID: CV1344A-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-23-A

Operator: SCC

10 Phenanthrene



Data File: 1DD23024.D

Date: 23-APR-2013 21:38

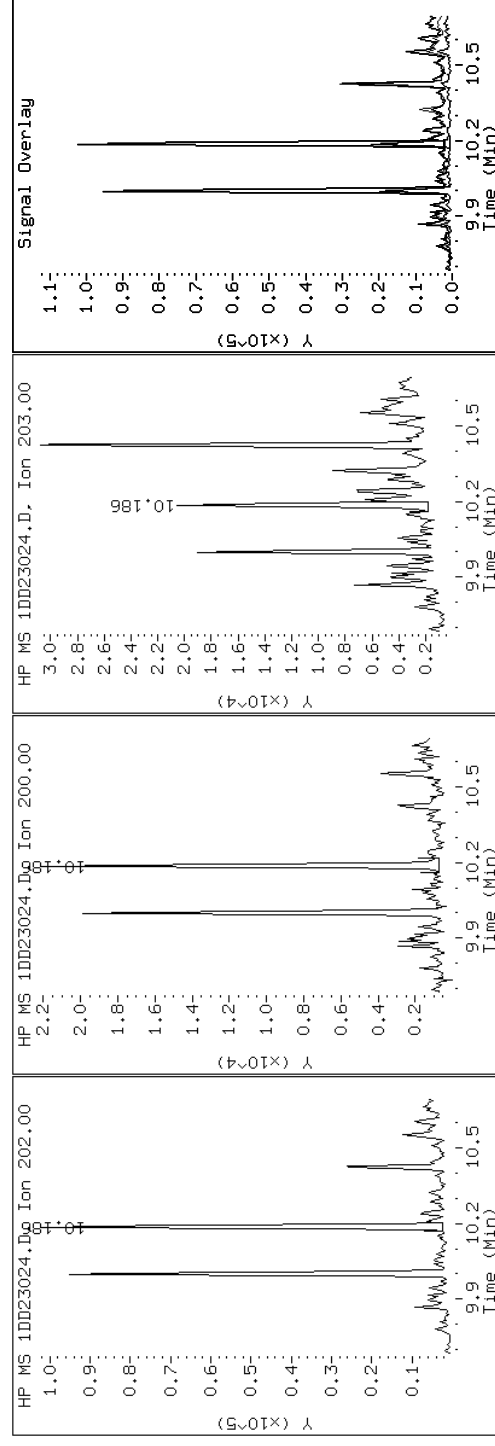
Client ID: CV1344A-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-23-A

Operator: SCC

15 Pyrene

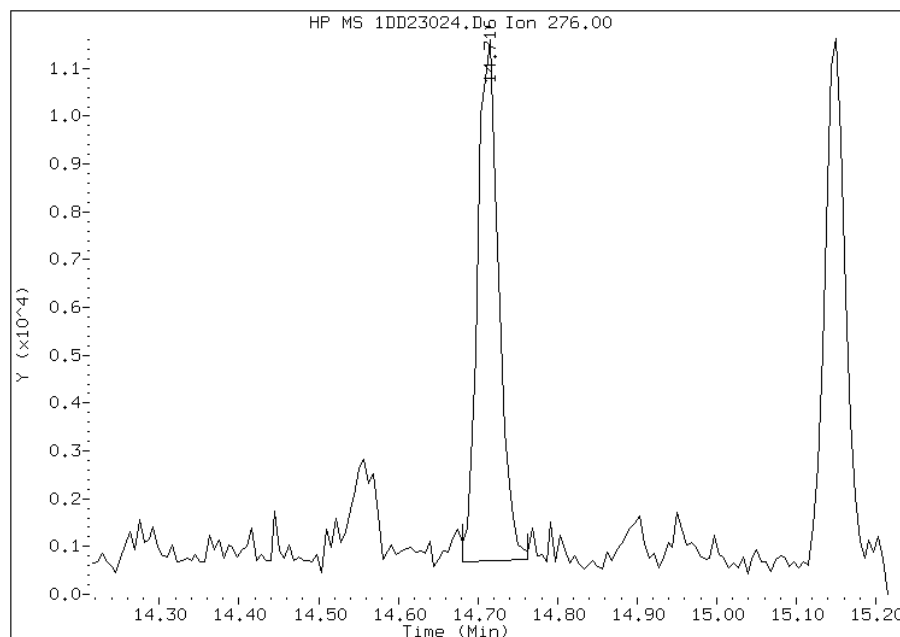


Manual Integration Report

Data File: 1DD23024.D
Inj. Date and Time: 23-APR-2013 21:38
Instrument ID: BSMSD.i
Client ID: CV1344A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

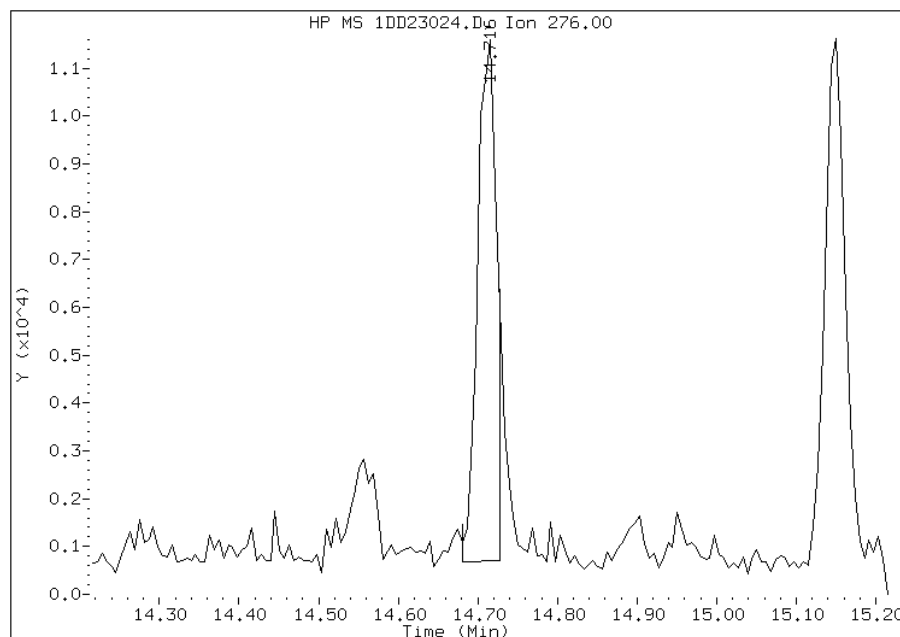
Processing Integration Results

RT: 14.72
Response: 20026
Amount: 0
Conc: 121



Manual Integration Results

RT: 14.72
Response: 17952
Amount: 0
Conc: 109



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 13:23
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-2</u>
SDG No.: <u>68089459-2</u>	
Client Sample ID: <u>CV1344A-CSD</u>	Lab Sample ID: <u>680-89459-24</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD23025.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 13:10</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 15:35</u>
Sample wt/vol: <u>15.10(g)</u>	Date Analyzed: <u>04/23/2013 22:00</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>4</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>23.5</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136756</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	51	J	210	26
120-12-7	Anthracene	70		44	22
56-55-3	Benzo[a]anthracene	260		42	20
50-32-8	Benzo[a]pyrene	260		54	27
205-99-2	Benzo[b]fluoranthene	480		63	32
191-24-2	Benzo[g,h,i]perylene	180		100	23
207-08-9	Benzo[k]fluoranthene	130		42	19
218-01-9	Chrysene	380		47	23
53-70-3	Dibenz(a,h)anthracene	58	J	100	21
206-44-0	Fluoranthene	510		100	21
86-73-7	Fluorene	100	U	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	140		100	37
90-12-0	1-Methylnaphthalene	110	J	210	23
91-57-6	2-Methylnaphthalene	100	J	210	37
91-20-3	Naphthalene	85	J	210	23
85-01-8	Phenanthrene	310		42	20
129-00-0	Pyrene	390		100	19

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23025.D
 Lab Smp Id: 680-89459-A-24-A Client Smp ID: CV1344A-CSD
 Inj Date : 23-APR-2013 22:00
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89459-A-24-A
 Misc Info : 680-89459-A-24-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
 Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.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	15.100	Weight Extracted
M	23.495	% 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

						CONCENTRATIONS			
		QUANT	SIG					ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)	
=====		====	====	=====	=====	=====	=====	=====	
*	1 Naphthalene-d8	136	6.055	6.051	(1.000)	1805172	40.0000		
*	6 Acenaphthene-d10	164	7.735	7.732	(1.000)	1051165	40.0000		
*	9 Phenanthrene-d10	188	8.998	8.995	(1.000)	1691757	40.0000		
\$	13 o-Terphenyl	230	9.304	9.306	(1.034)	34909	1.36950	470	
*	17 Chrysene-d12	240	11.307	11.304	(1.000)	1940532	40.0000		
*	22 Perylene-d12	264	13.135	13.120	(1.000)	2021930	40.0000		
	2 Naphthalene	128	6.078	6.075	(1.004)	10958	0.24422	84	
	3 2-Methylnaphthalene	142	6.783	6.780	(1.120)	8422	0.29077	100	
	4 1-Methylnaphthalene	142	6.877	6.874	(1.136)	8611	0.31482	110	
	5 Acenaphthylene	152	7.606	7.608	(0.983)	6499	0.14608	50	
	8 Fluorene	166	8.205	8.208	(1.061)	1413	0.04345	15(Q)	
	10 Phenanthrene	178	9.016	9.013	(1.002)	41068	0.88131	300	
	11 Anthracene	178	9.057	9.054	(1.007)	9344	0.20203	70	
	12 Carbazole	167	9.198	9.195	(1.022)	5290	0.12967	45	

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
14 Fluoranthene	202	9.997	10.000	(1.111)	70928	1.47913	510
15 Pyrene	202	10.185	10.188	(0.901)	65948	1.13169	390
16 Benzo(a)anthracene	228	11.296	11.287	(0.999)	42455	0.75671	260
18 Chrysene	228	11.331	11.328	(1.002)	57682	1.09649	380
19 Benzo(b)fluoranthene	252	12.582	12.585	(0.958)	70013	1.38617	480
20 Benzo(k)fluoranthene	252	12.618	12.620	(0.961)	19739	0.37096	130
21 Benzo(a)pyrene	252	13.029	13.032	(0.992)	37831	0.74545	260
23 Indeno(1,2,3-cd)pyrene	276	14.703	14.706	(1.119)	21715	0.40129	140(M)
24 Dibenzo(a,h)anthracene	278	14.727	14.735	(1.121)	8478	0.16637	58
25 Benzo(g,h,i)perylene	276	15.138	15.141	(1.153)	26631	0.51111	180

QC Flag Legend

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

Data File: 1DD23025.D

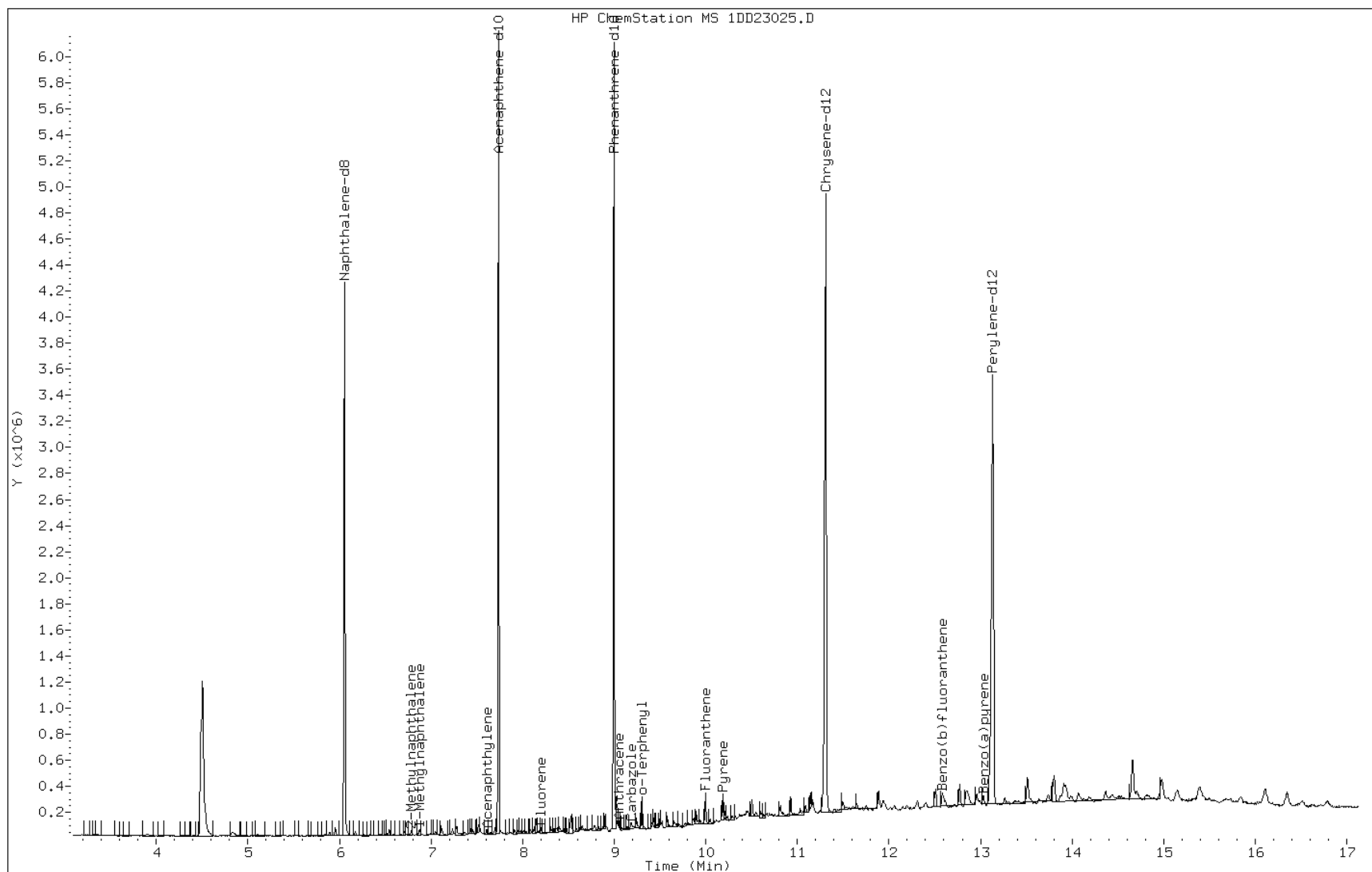
Date: 23-APR-2013 22:00

Client ID: CV1344A-CSD

Instrument: BSMSD.i

Sample Info: 680-89459-A-24-A

Operator: SCC



Data File: 1DD23025.D

Date: 23-APR-2013 22:00

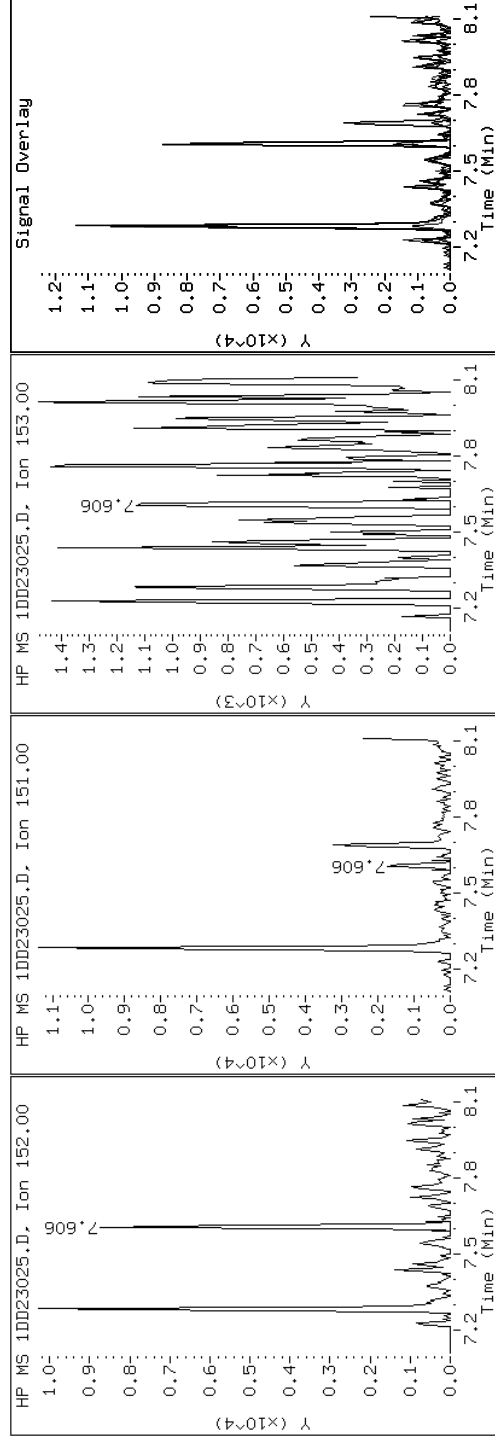
Client ID: CV1344A-CSD

Sample Info: 680-89459-A-24-A

Instrument: BSMDS.i

Operator: SCC

5 Acenaphthylene



Data File: 1DD23025.D

Date: 23-APR-2013 22:00

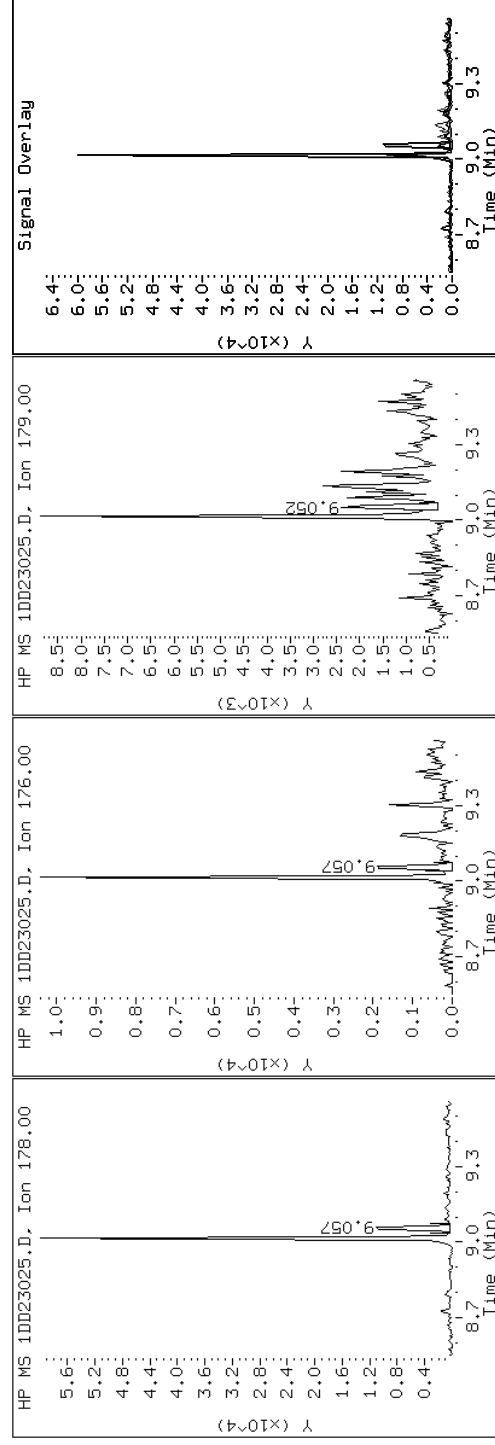
Client ID: CV1344A-CSD

Sample Info: 680-89459-A-24-A

11 Anthracene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23025.D

Date: 23-APR-2013 22:00

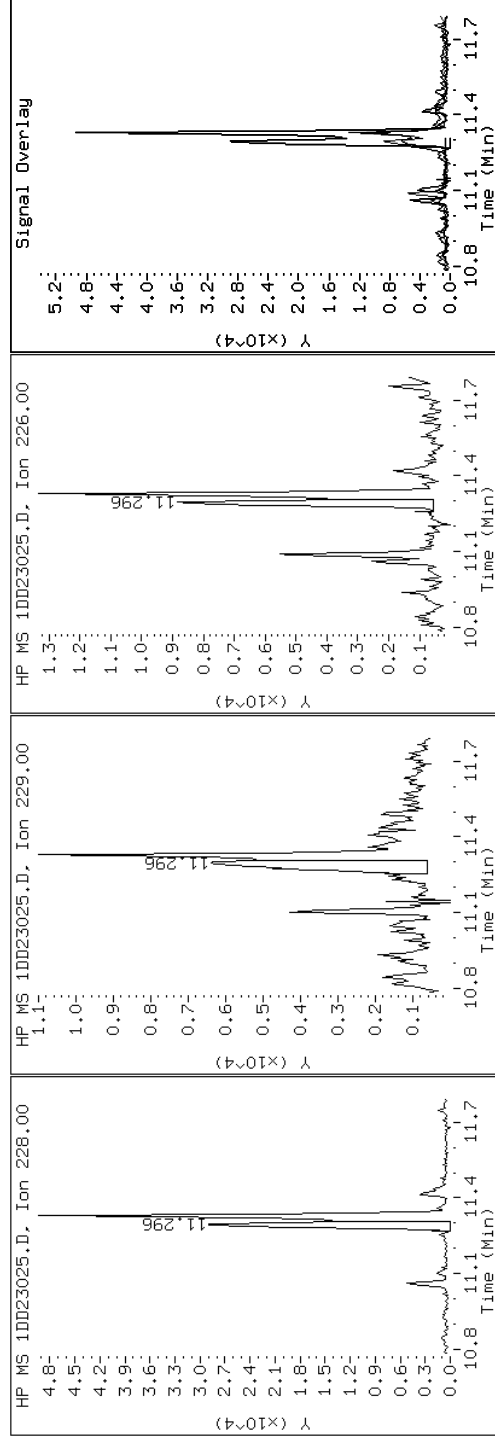
Client ID: CV1344A-CSD

Sample Info: 680-89459-A-24-A

Instrument: BSMDS.i

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD23025.D

Date: 23-APR-2013 22:00

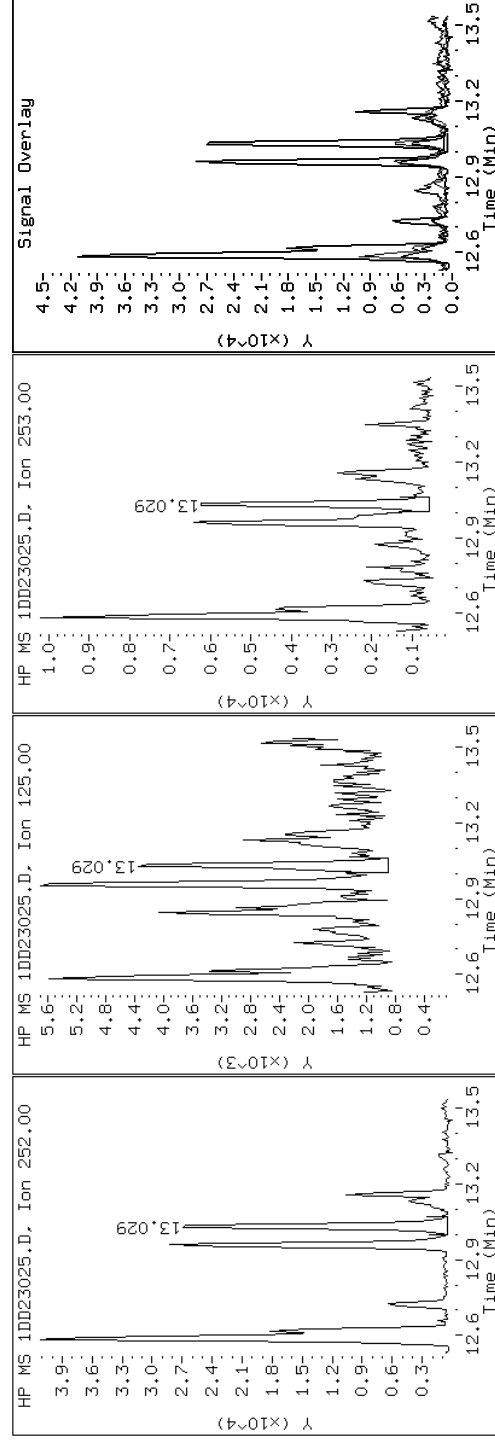
Client ID: CV1344A-CSD

Sample Info: 680-89459-A-24-A

Instrument: BSMDS.i

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD23025.D

Date: 23-APR-2013 22:00

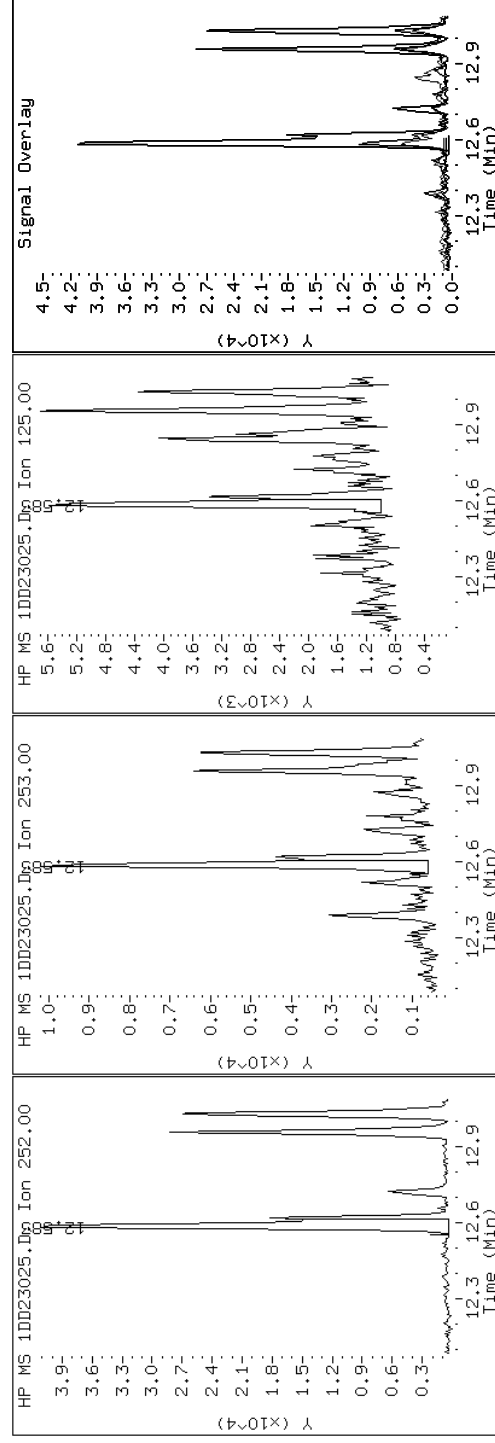
Client ID: CV1344A-CSD

Sample Info: 680-89459-A-24-A

Instrument: BSMDS.i

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD23025.D

Date: 23-APR-2013 22:00

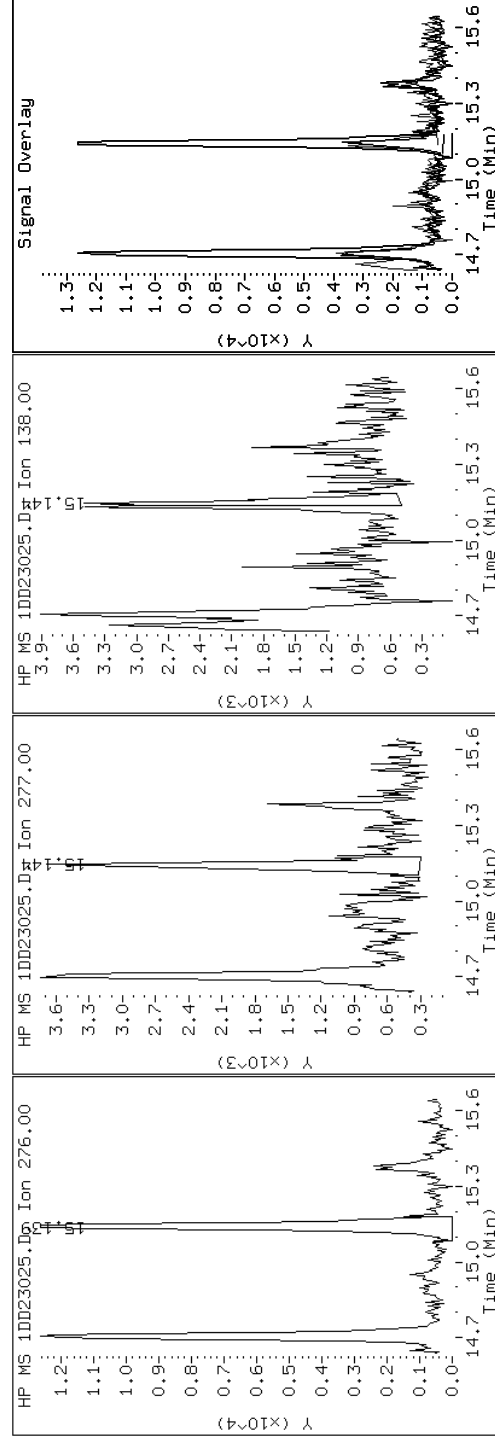
Client ID: CV1344A-CSD

Sample Info: 680-89459-A-24-A

Instrument: BSMDS.i

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD23025.D

Date: 23-APR-2013 22:00

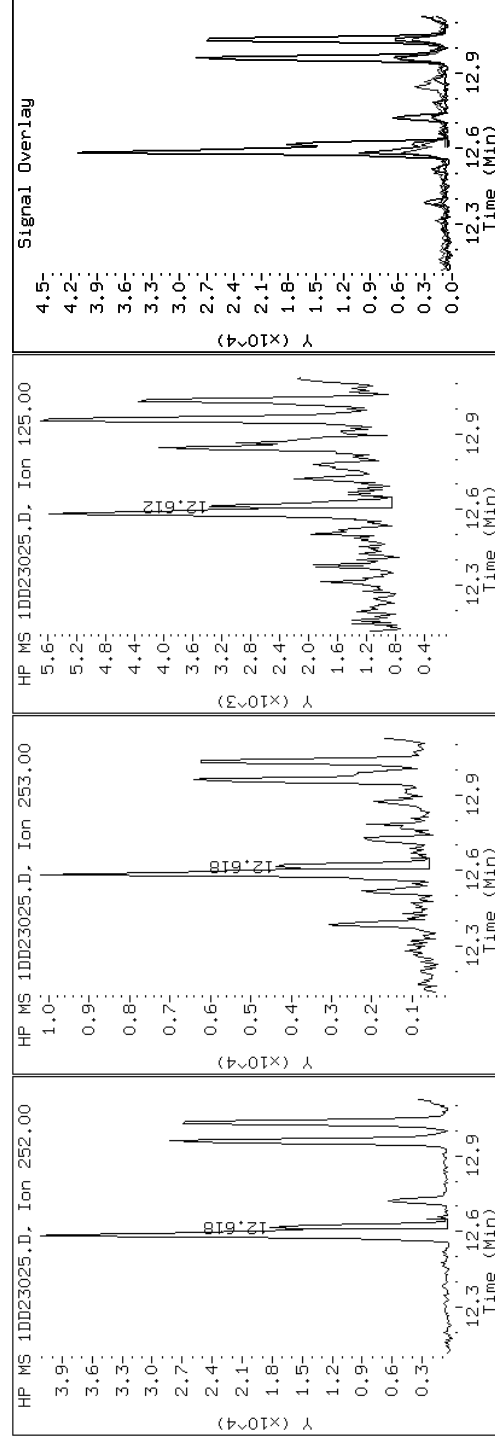
Client ID: CV1344A-CSD

Sample Info: 680-89459-A-24-A

Instrument: BSMDS.i

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD23025.D

Date: 23-APR-2013 22:00

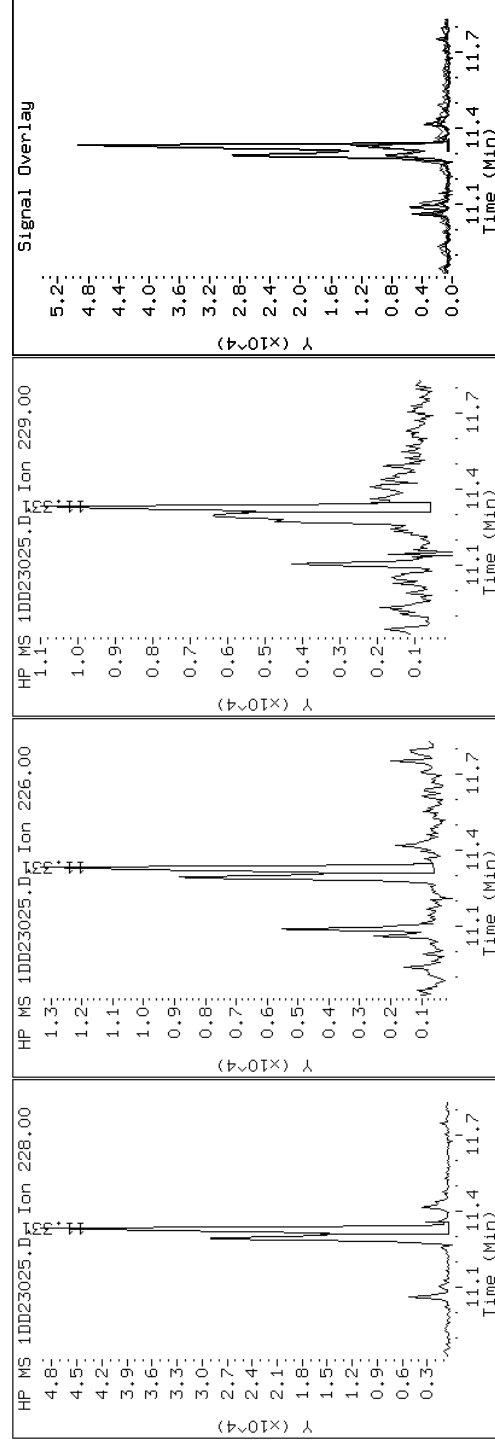
Client ID: CV1344A-CSD

Sample Info: 680-89459-A-24-A

18 Chrysene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23025.D

Date: 23-APR-2013 22:00

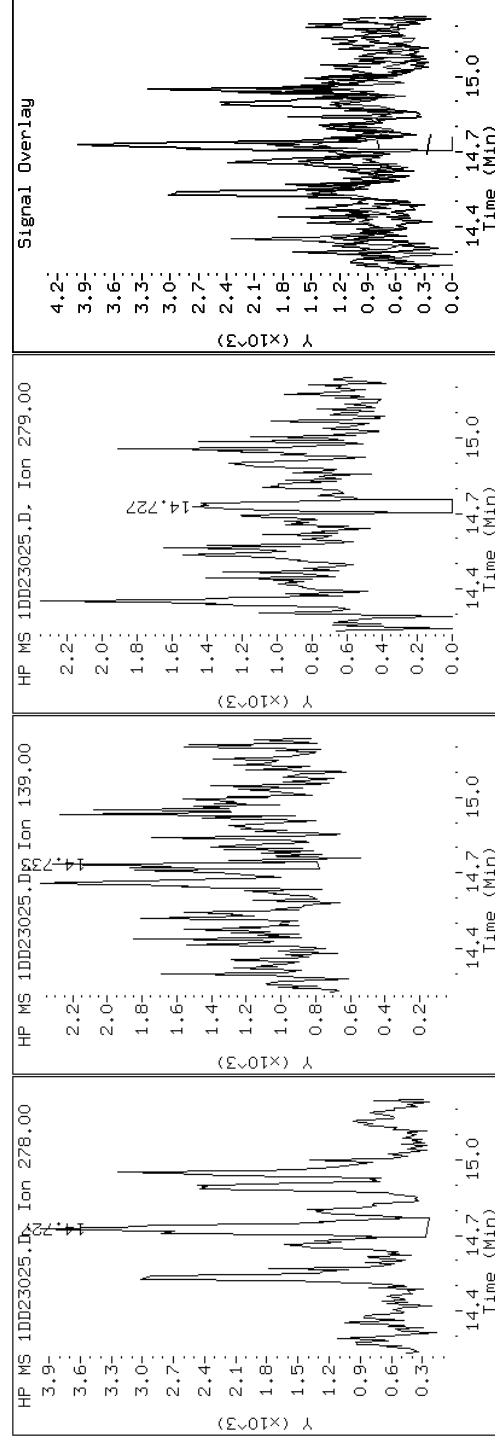
Client ID: CV1344A-CSD

Sample Info: 680-89459-A-24-A

Instrument: BSMDS.i

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD23025.D

Date: 23-APR-2013 22:00

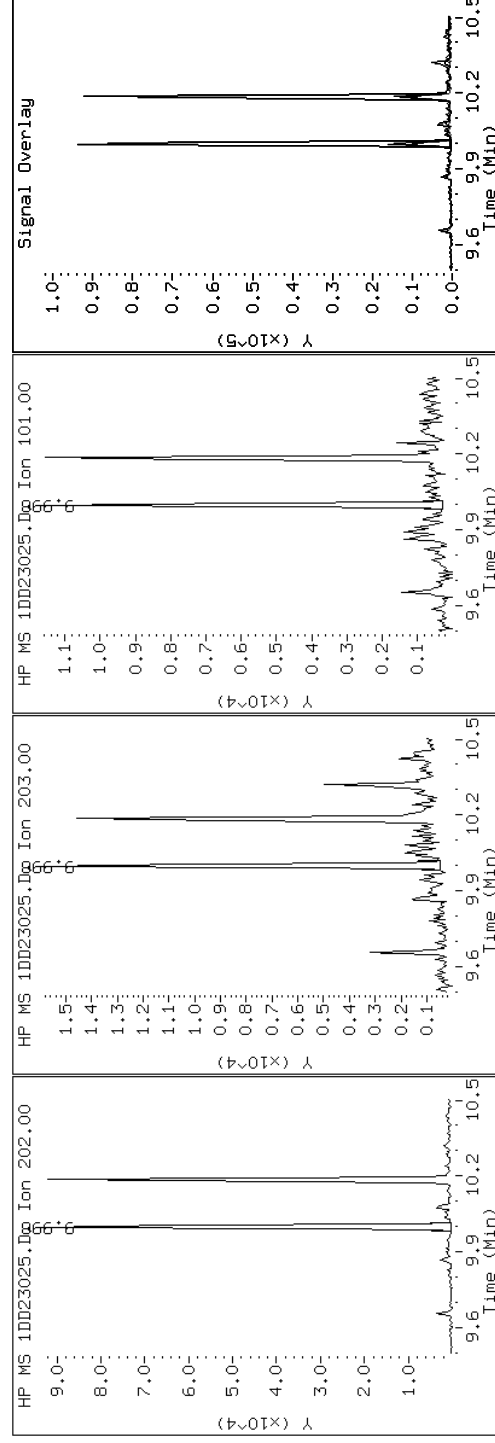
Client ID: CV1344A-CSD

Sample Info: 680-89459-A-24-A

Instrument: BSMSD.i

Operator: SCC

14 Fluoranthene



Data File: 1DD23025.D

Date: 23-APR-2013 22:00

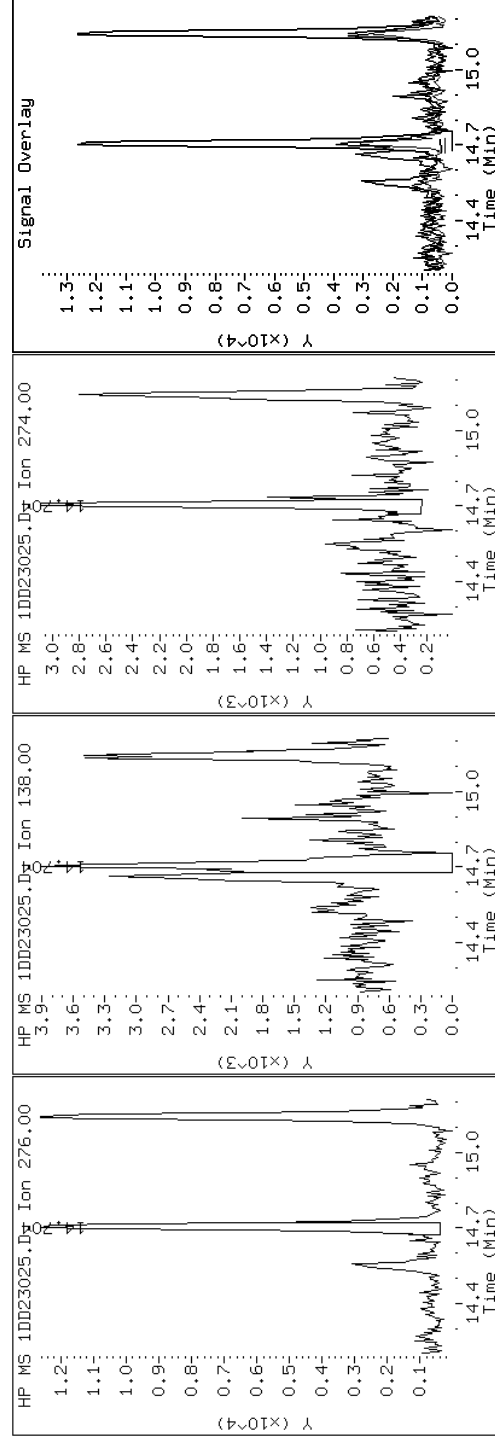
Client ID: CV1344A-CSD

Sample Info: 680-89459-A-24-A

Instrument: BSMDS.i

Operator: SCC

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



Data File: 1DD23025.D

Date: 23-APR-2013 22:00

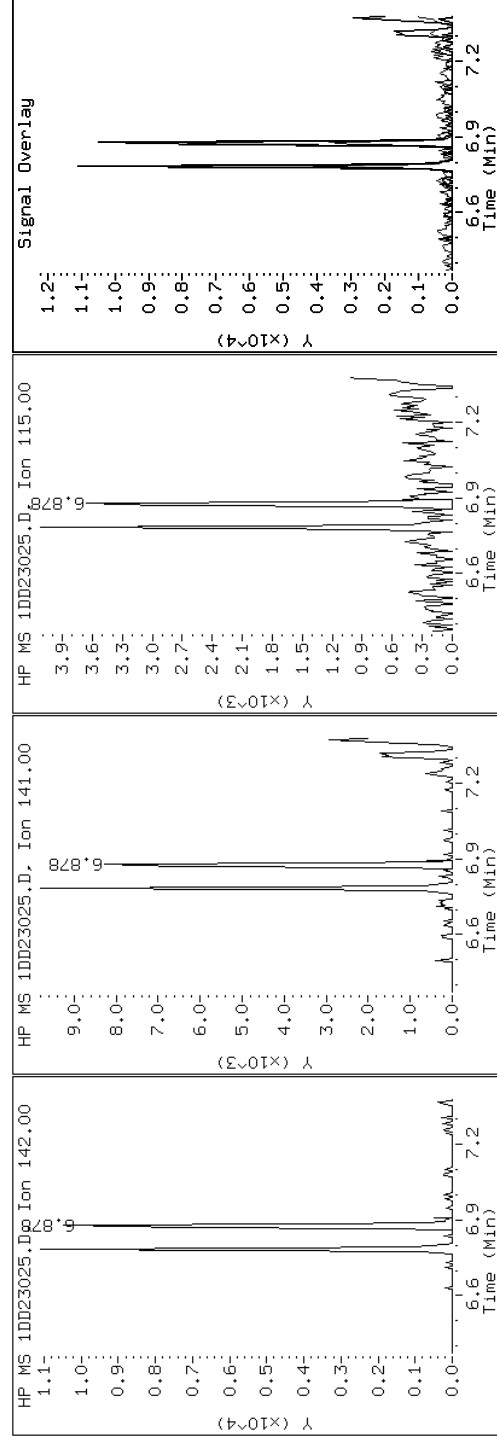
Client ID: CV1344A-CSD

Sample Info: 680-89459-A-24-A

Instrument: BSMDS.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD23025.D

Date: 23-APR-2013 22:00

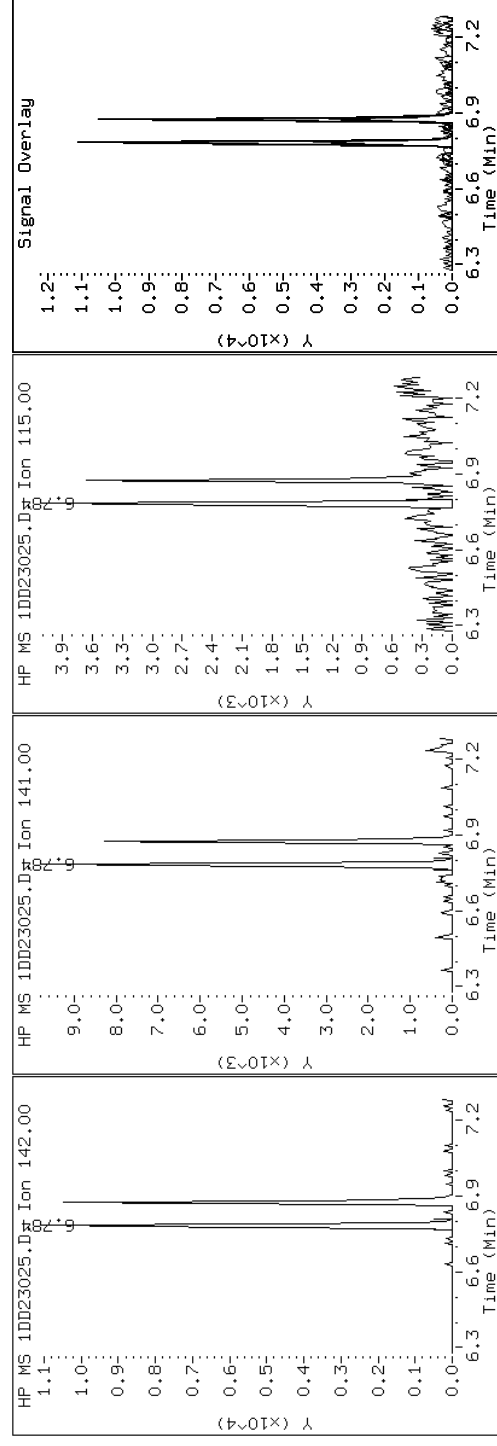
Client ID: CV1344A-CSD

Sample Info: 680-89459-A-24-A

Instrument: BSMDS.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD23025.D

Date: 23-APR-2013 22:00

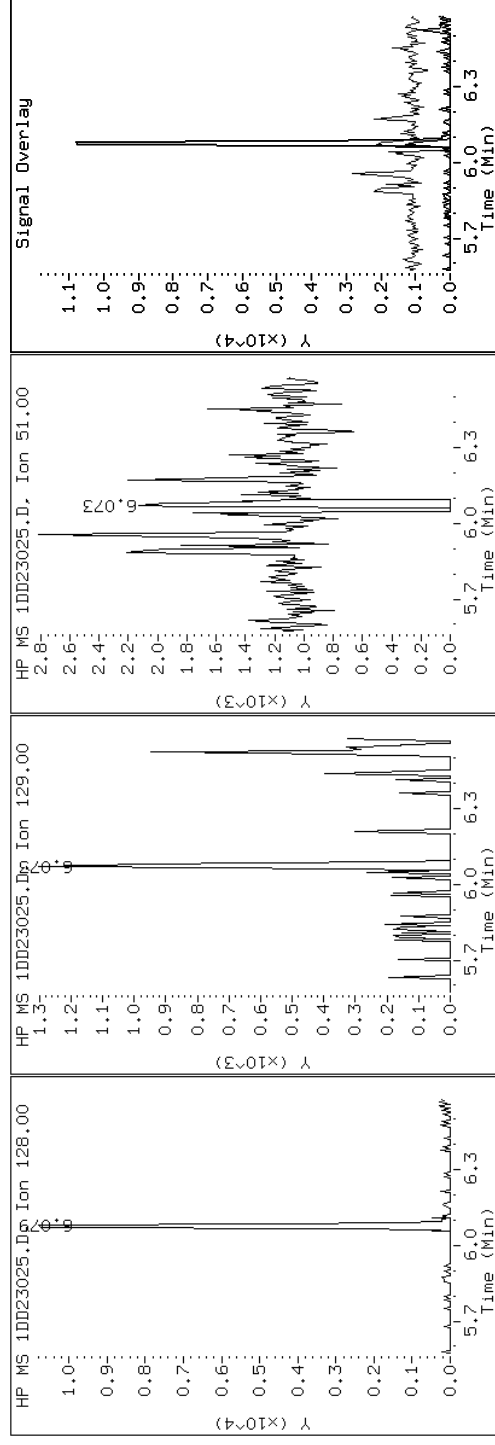
Client ID: CV1344A-CSD

Sample Info: 680-89459-A-24-A

Instrument: BSMSD.i

Operator: SCC

2 Naphthalene



Data File: 1DD23025.D

Date: 23-APR-2013 22:00

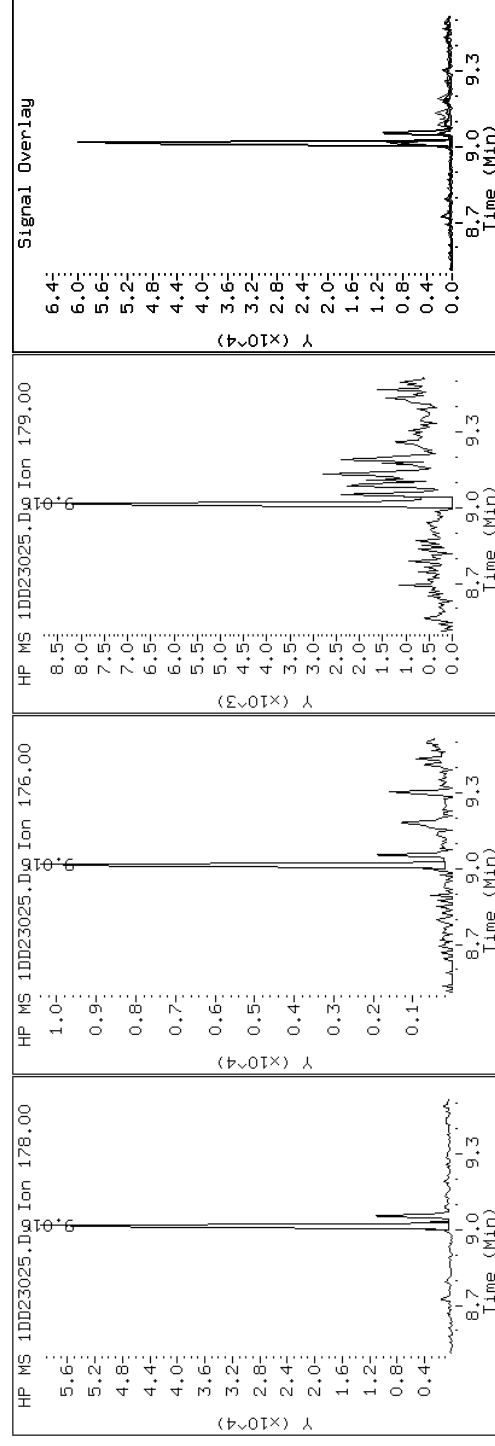
Client ID: CV1344A-CSD

Sample Info: 680-89459-A-24-A

Instrument: BSMDS.i

Operator: SCC

10 Phenanthrene



Data File: 1DD23025.D

Date: 23-APR-2013 22:00

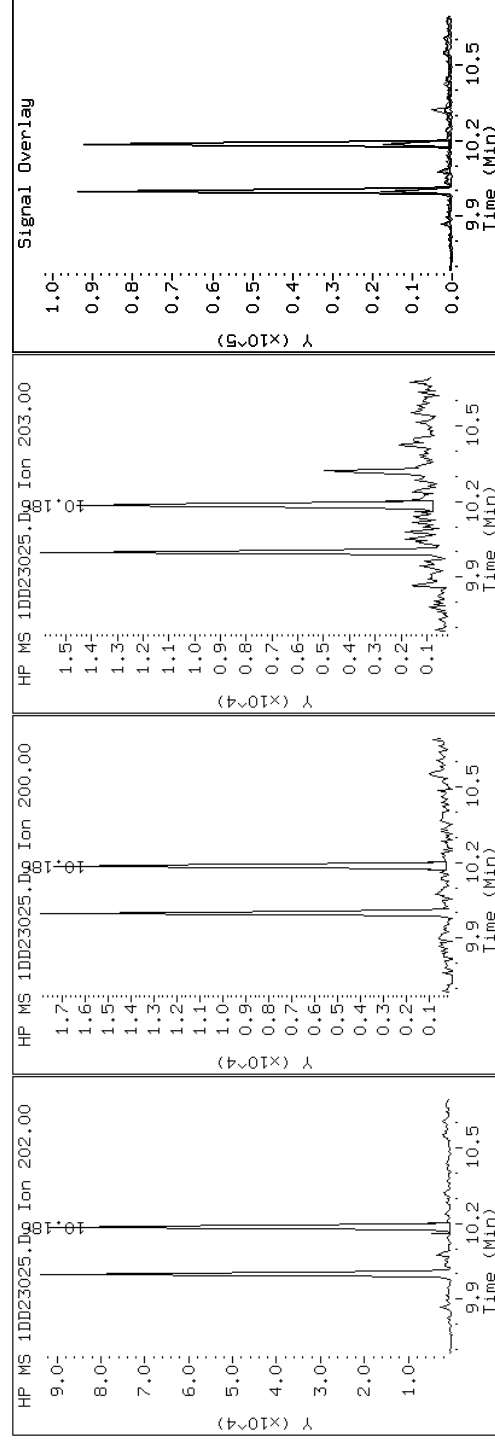
Client ID: CV1344A-CSD

Sample Info: 680-89459-A-24-A

Instrument: BSMSD.i

Operator: SCC

15 Pyrene

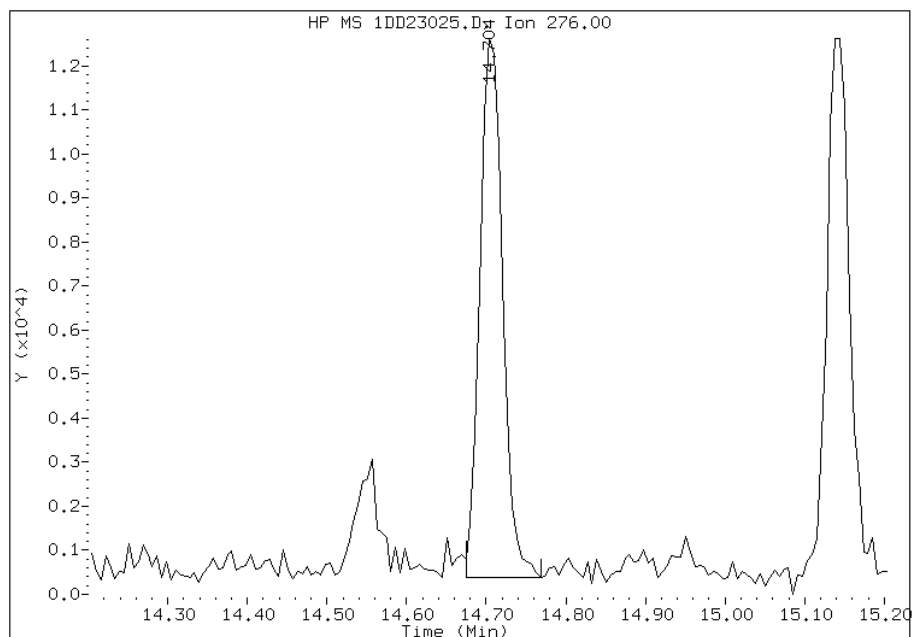


Manual Integration Report

Data File: 1DD23025.D
Inj. Date and Time: 23-APR-2013 22:00
Instrument ID: BSMSD.i
Client ID: CV1344A-CSD
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

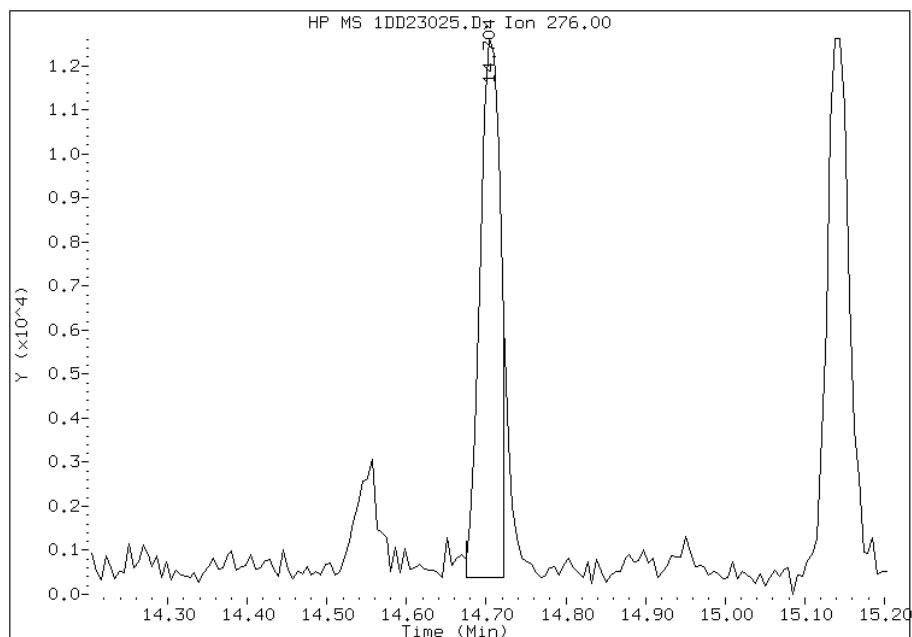
Processing Integration Results

RT: 14.70
Response: 24100
Amount: 0
Conc: 154



Manual Integration Results

RT: 14.70
Response: 21715
Amount: 0
Conc: 139



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 13:24
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-2</u>
SDG No.: <u>68089459-2</u>	
Client Sample ID: <u>CV1344B-CS</u>	Lab Sample ID: <u>680-89459-25</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD23026.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 13:20</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 15:35</u>
Sample wt/vol: <u>15.38(g)</u>	Date Analyzed: <u>04/23/2013 22:23</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>4</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>20.4</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136756</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	98
208-96-8	Acenaphthylene	45	J	200	25
120-12-7	Anthracene	110		41	21
56-55-3	Benzo[a]anthracene	390		39	19
50-32-8	Benzo[a]pyrene	370		51	25
205-99-2	Benzo[b]fluoranthene	660		60	30
191-24-2	Benzo[g,h,i]perylene	230		98	22
207-08-9	Benzo[k]fluoranthene	220		39	18
218-01-9	Chrysene	510		44	22
53-70-3	Dibenz(a,h)anthracene	74	J	98	20
206-44-0	Fluoranthene	700		98	20
86-73-7	Fluorene	29	J	98	20
193-39-5	Indeno[1,2,3-cd]pyrene	200		98	35
90-12-0	1-Methylnaphthalene	150	J	200	22
91-57-6	2-Methylnaphthalene	150	J	200	35
91-20-3	Naphthalene	130	J	200	22
85-01-8	Phenanthrene	460		39	19
129-00-0	Pyrene	510		98	18

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23026.D
 Lab Smp Id: 680-89459-A-25-A Client Smp ID: CV1344B-CS
 Inj Date : 23-APR-2013 22:23
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89459-A-25-A
 Misc Info : 680-89459-A-25-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
 Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 25
 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	15.380	Weight Extracted
M	20.418	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.058	6.051	(1.000)		1860586	40.0000	
* 6 Acenaphthene-d10	164		7.739	7.732	(1.000)		1041914	40.0000	
* 9 Phenanthrene-d10	188		8.996	8.995	(1.000)		1703922	40.0000	
\$ 13 o-Terphenyl	230		9.302	9.306	(1.034)		32422	1.26285	410
* 17 Chrysene-d12	240		11.311	11.304	(1.000)		1979167	40.0000	
* 22 Perylene-d12	264		13.138	13.120	(1.000)		1979122	40.0000	
2 Naphthalene	128		6.076	6.075	(1.003)		18161	0.39271	130
3 2-Methylnaphthalene	142		6.781	6.780	(1.119)		13656	0.45744	150
4 1-Methylnaphthalene	142		6.875	6.874	(1.135)		13325	0.47266	150
5 Acenaphthylene	152		7.609	7.608	(0.983)		6123	0.13885	45
8 Fluorene	166		8.203	8.208	(1.060)		2813	0.08727	28
10 Phenanthrene	178		9.014	9.013	(1.002)		65372	1.39285	460
11 Anthracene	178		9.055	9.054	(1.007)		15933	0.34203	110
12 Carbazole	167		9.196	9.195	(1.022)		8414	0.20477	67

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
14 Fluoranthene	202	10.001	10.000	(1.112)	103382	2.14053	700
15 Pyrene	202	10.183	10.188	(0.900)	92095	1.54953	510
16 Benzo(a)anthracene	228	11.293	11.287	(0.998)	68192	1.19172	390
18 Chrysene	228	11.329	11.328	(1.002)	83565	1.55749	510
19 Benzo(b)fluoranthene	252	12.586	12.585	(0.958)	100308	2.02893	660
20 Benzo(k)fluoranthene	252	12.621	12.620	(0.961)	35380	0.67929	220
21 Benzo(a)pyrene	252	13.038	13.032	(0.992)	56610	1.13962	370
23 Indeno(1,2,3-cd)pyrene	276	14.713	14.706	(1.120)	31969	0.60355	200(M)
24 Dibenzo(a,h)anthracene	278	14.736	14.735	(1.122)	11343	0.22741	74
25 Benzo(g,h,i)perylene	276	15.148	15.141	(1.153)	35522	0.69650	230

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD23026.D

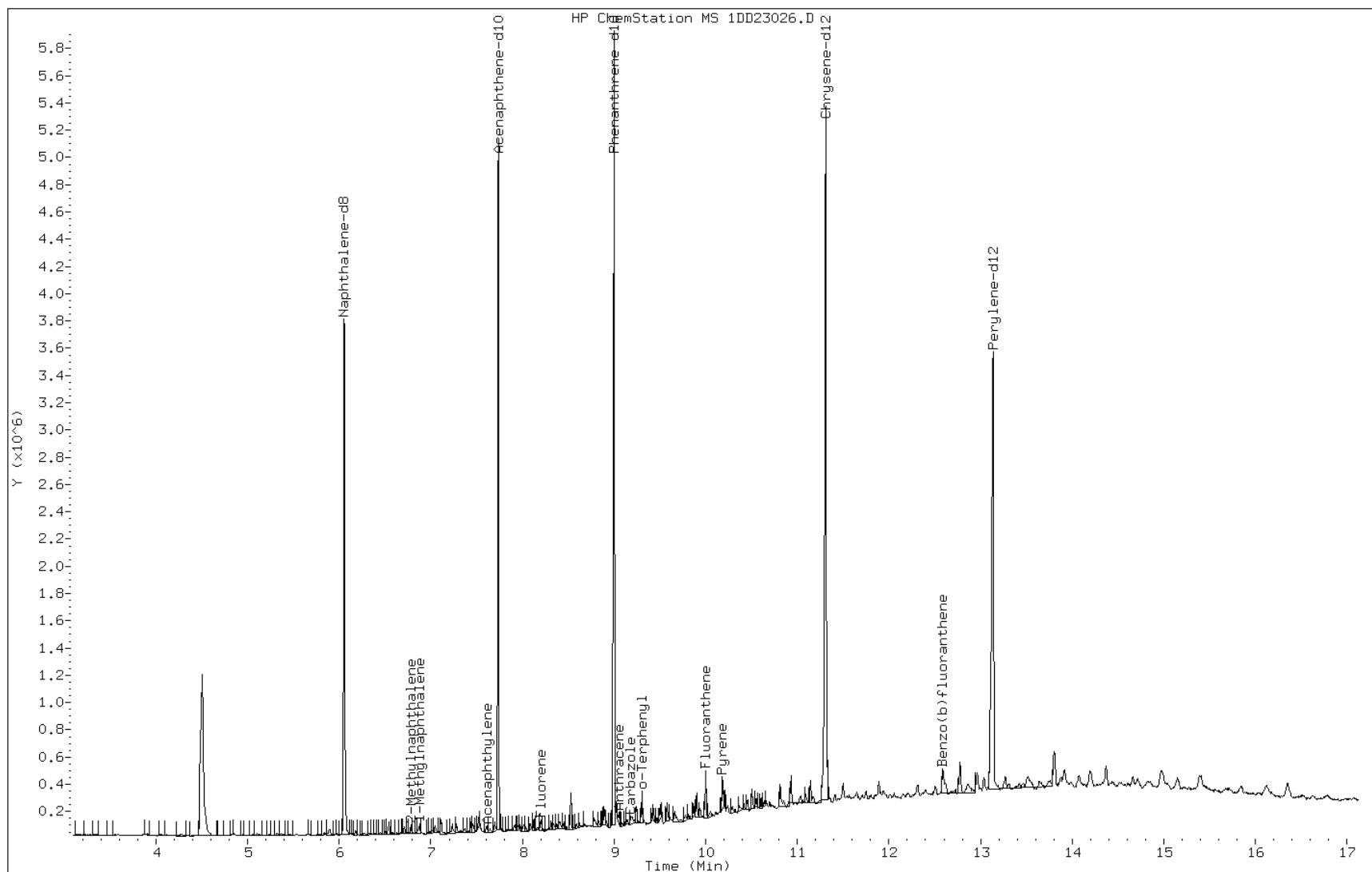
Date: 23-APR-2013 22:23

Client ID: CV1344B-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-25-A

Operator: SCC



Data File: 1DD23026.D

Date: 23-APR-2013 22:23

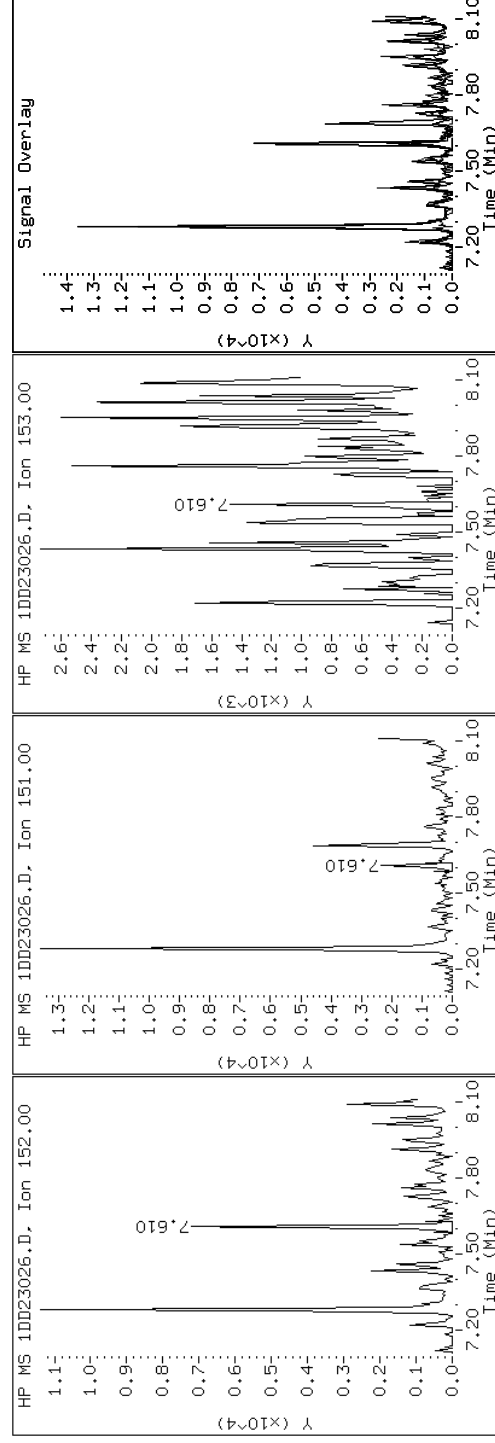
Client ID: CV1344B-CS

Sample Info: 680-89459-A-25-A

Instrument: BSMDS.i

Operator: SCC

5 Acenaphthylene



Data File: 1DD23026.D

Date: 23-APR-2013 22:23

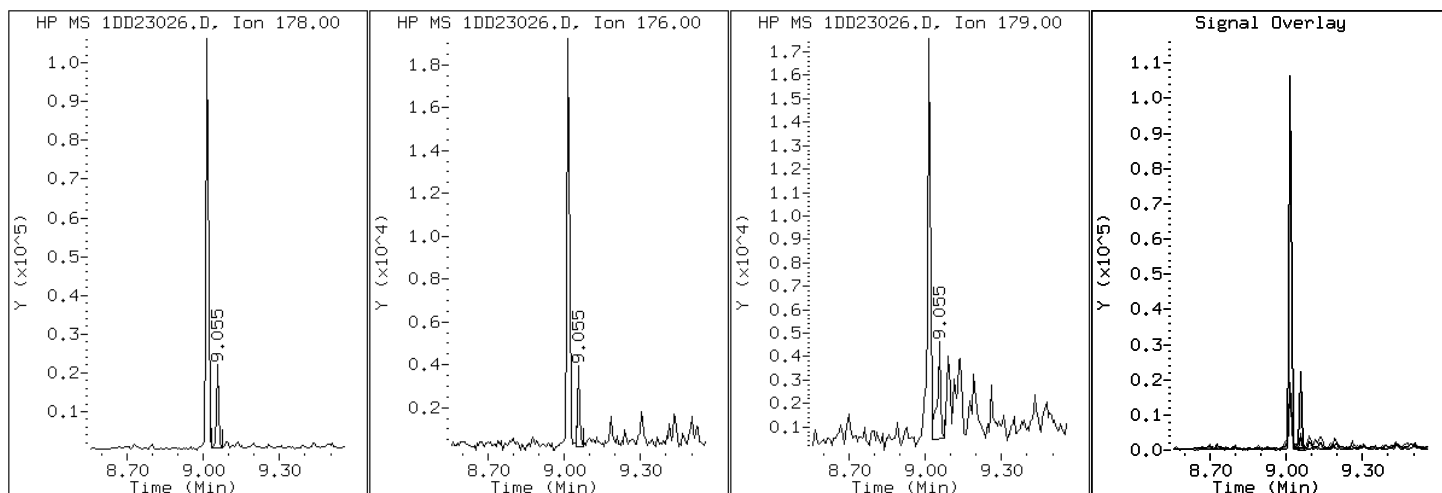
Client ID: CV1344B-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-25-A

Operator: SCC

11 Anthracene



Data File: 1DD23026.D

Date: 23-APR-2013 22:23

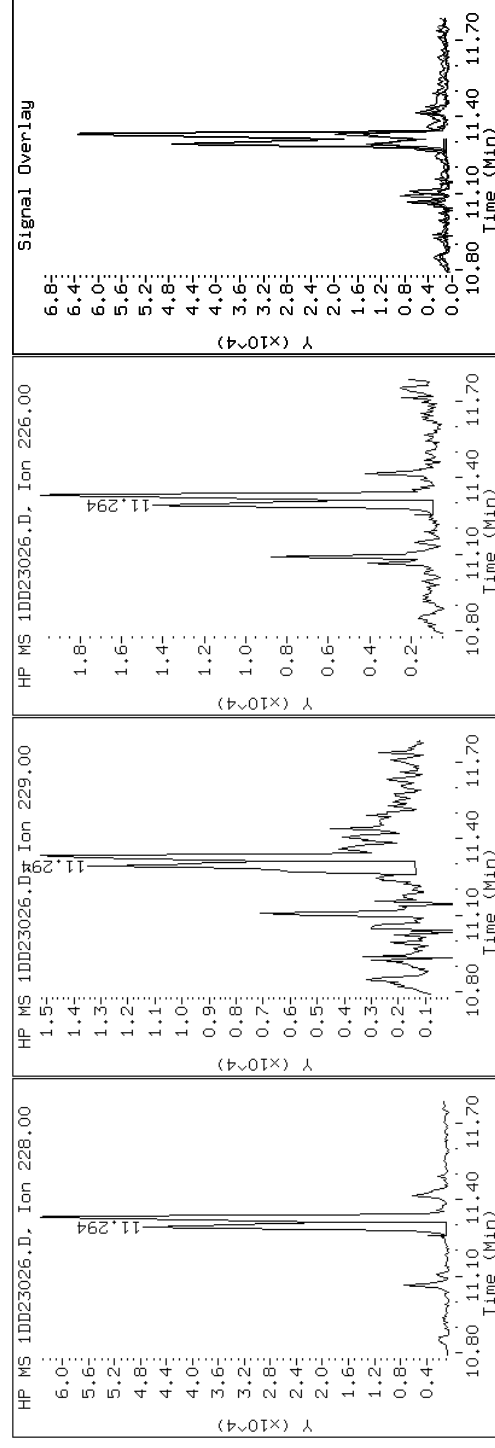
Client ID: CV1344B-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-25-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD23026.D

Date: 23-APR-2013 22:23

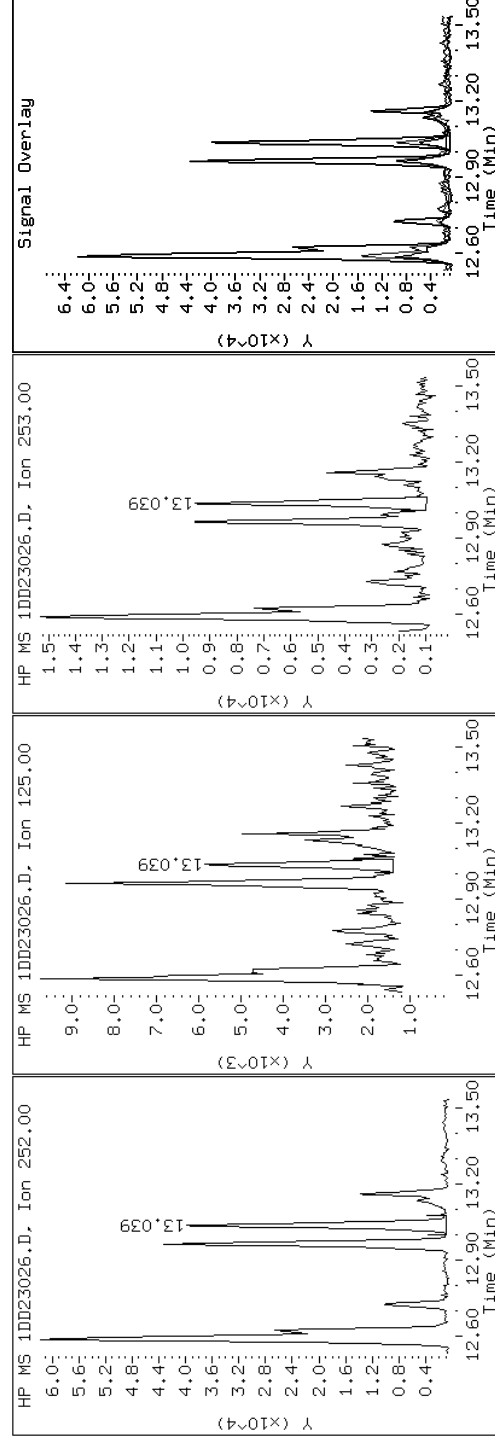
Client ID: CV1344B-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-25-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD23026.D

Date: 23-APR-2013 22:23

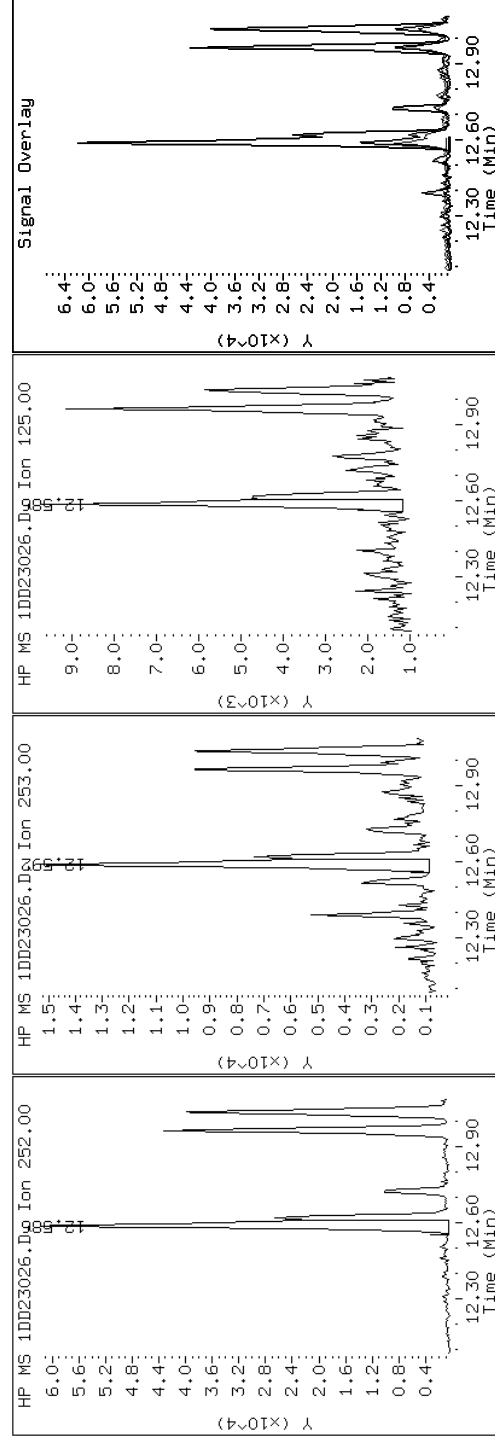
Client ID: CV1344B-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-25-A

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD23026.D

Date: 23-APR-2013 22:23

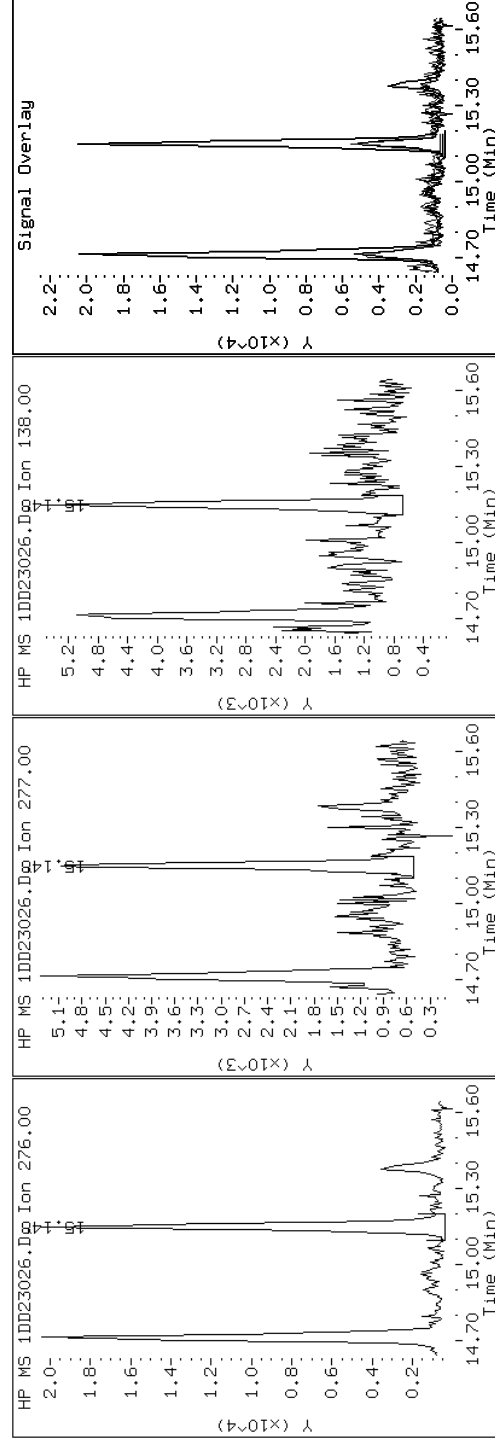
Client ID: CV1344B-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-25-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD23026.D

Date: 23-APR-2013 22:23

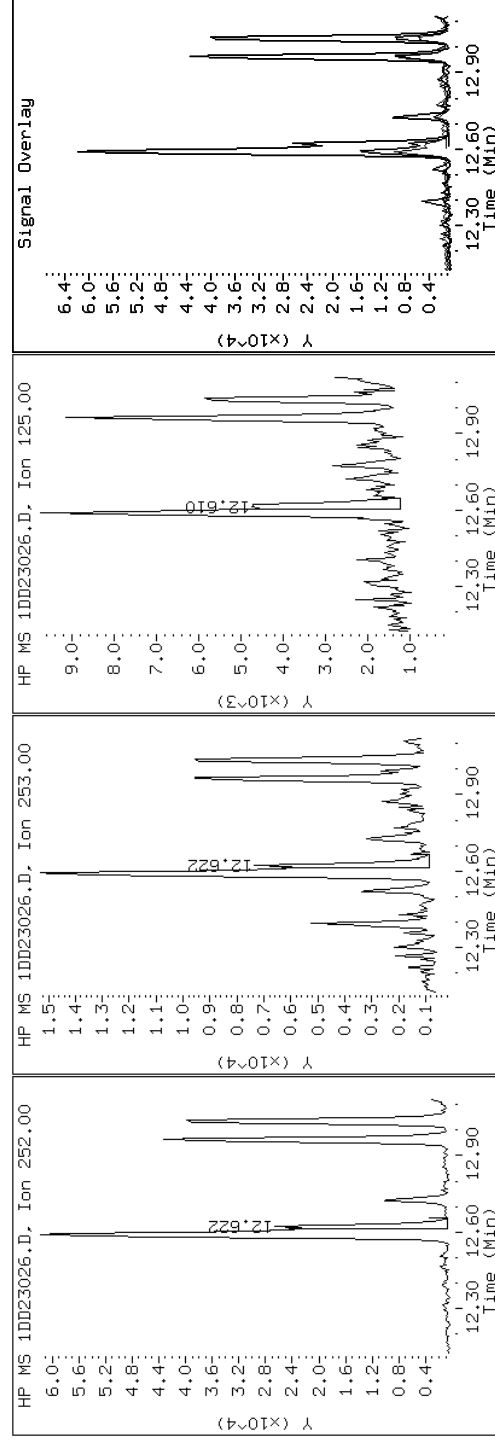
Client ID: CV1344B-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-25-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD23026.D

Date: 23-APR-2013 22:23

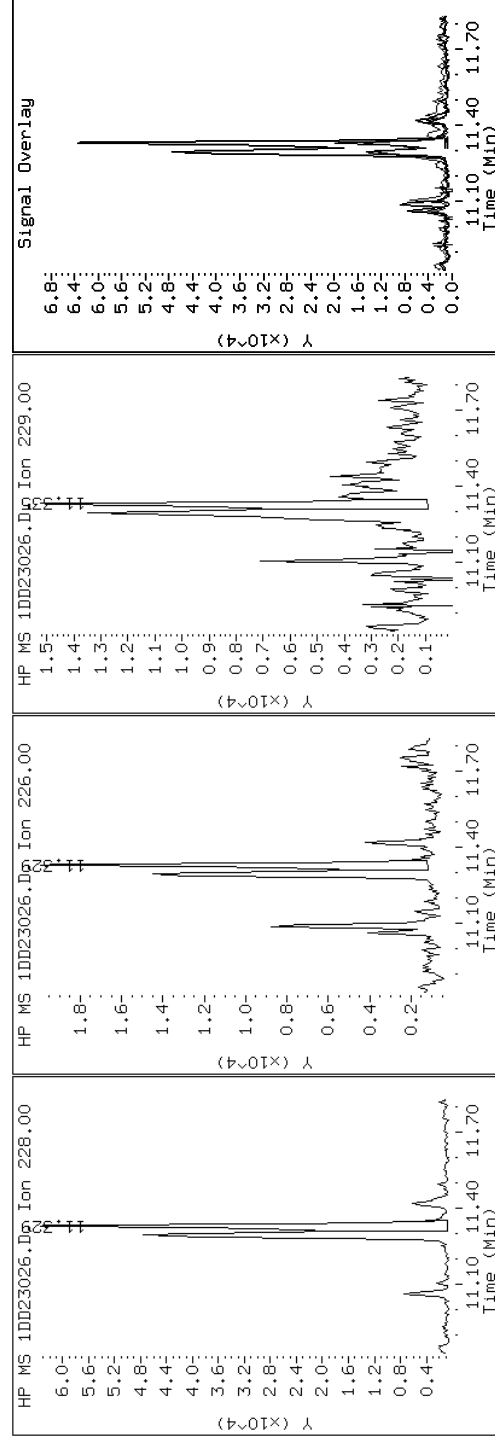
Client ID: CV1344B-CS

Sample Info: 680-89459-A-25-A

Instrument: BSMSD.i

Operator: SCC

18 Chrysene



Data File: 1DD23026.D

Date: 23-APR-2013 22:23

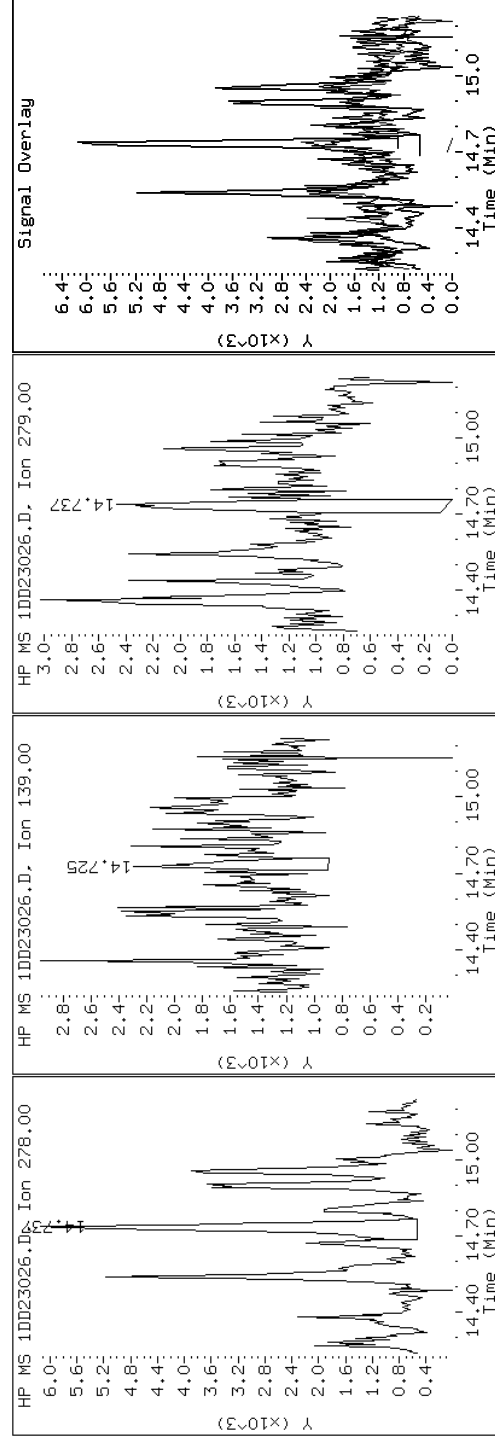
Client ID: CV1344B-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-25-A

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD23026.D

Date: 23-APR-2013 22:23

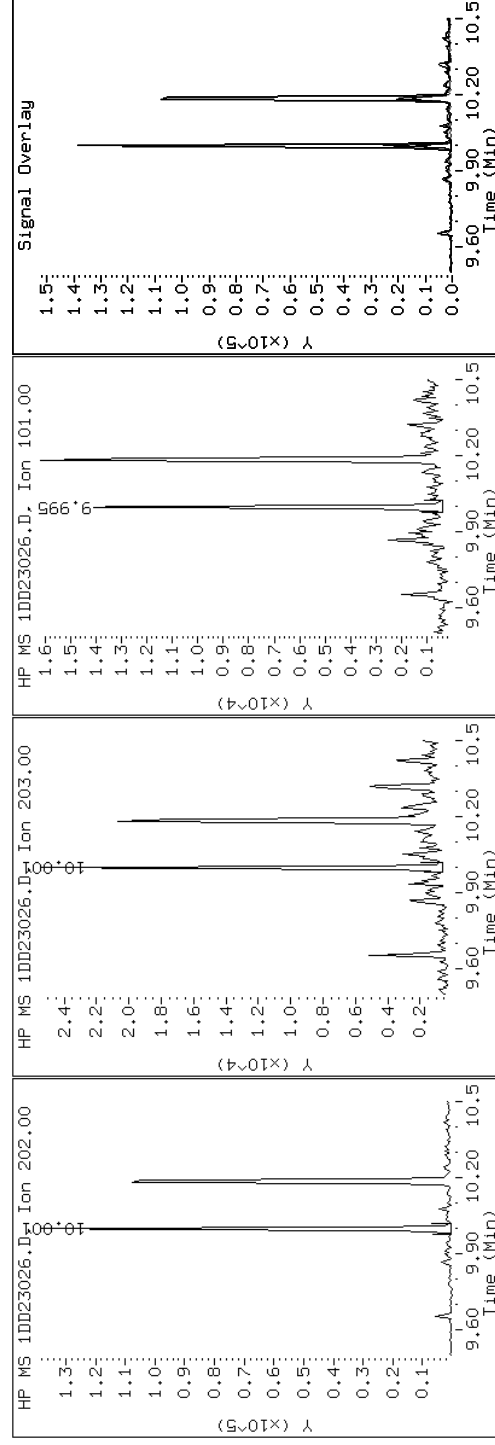
Client ID: CV1344B-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-25-A

Operator: SCC

14 Fluoranthene



Data File: 1DD23026.D

Date: 23-APR-2013 22:23

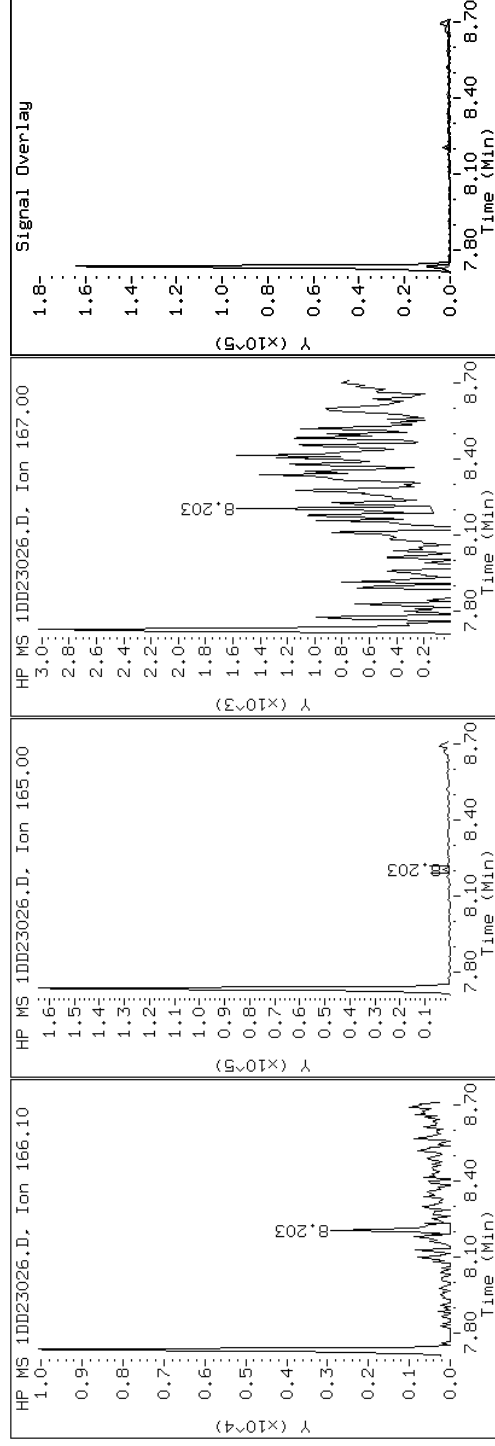
Client ID: CV1344B-CS

Sample Info: 680-89459-A-25-A

8 Fluorene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23026.D

Date: 23-APR-2013 22:23

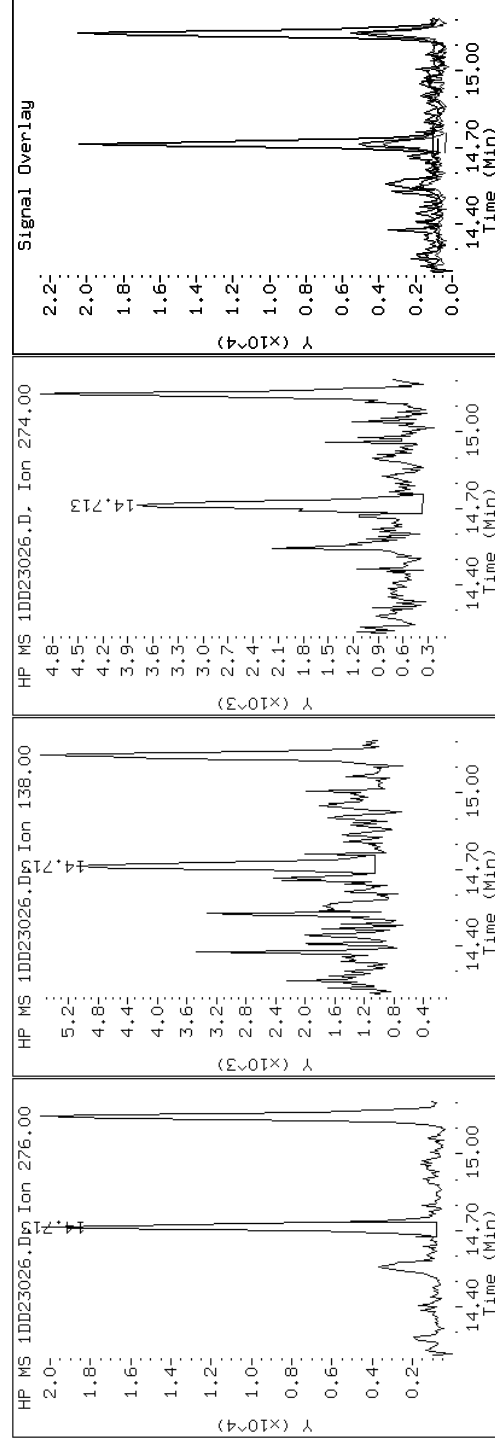
Client ID: CV1344B-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-25-A

Operator: SCC

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



Data File: 1DD23026.D

Date: 23-APR-2013 22:23

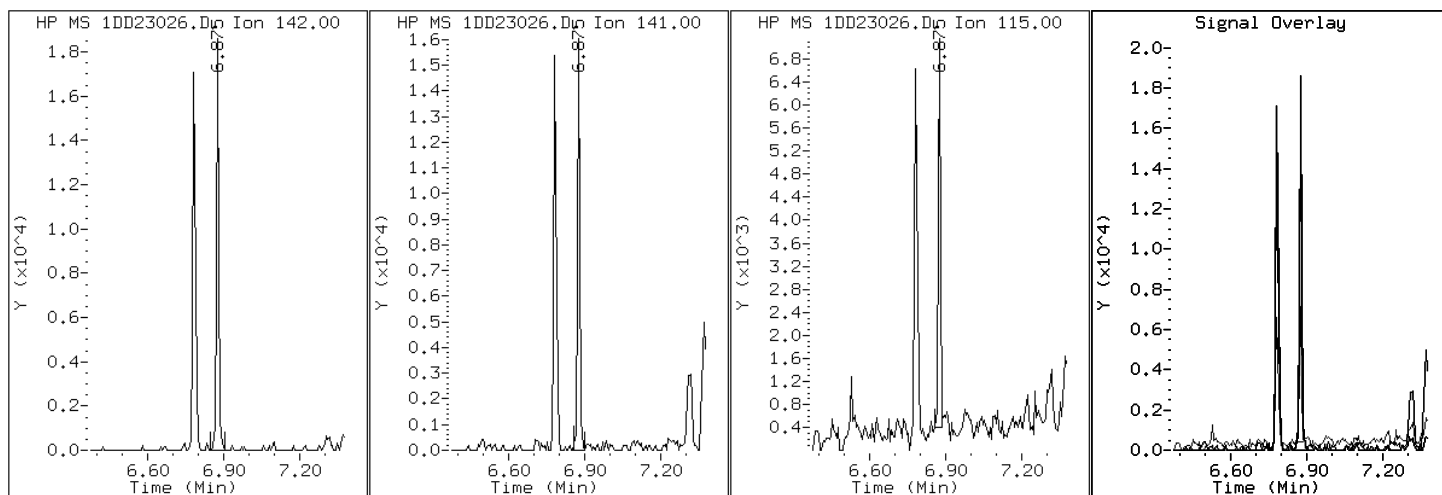
Client ID: CV1344B-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-25-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD23026.D

Date: 23-APR-2013 22:23

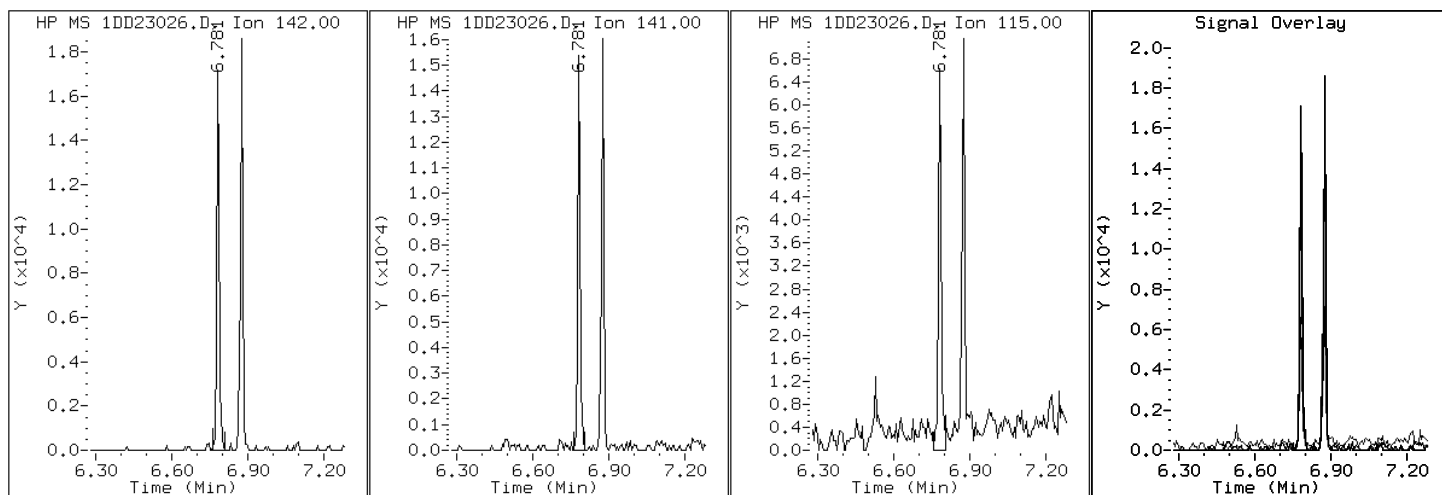
Client ID: CV1344B-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-25-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD23026.D

Date: 23-APR-2013 22:23

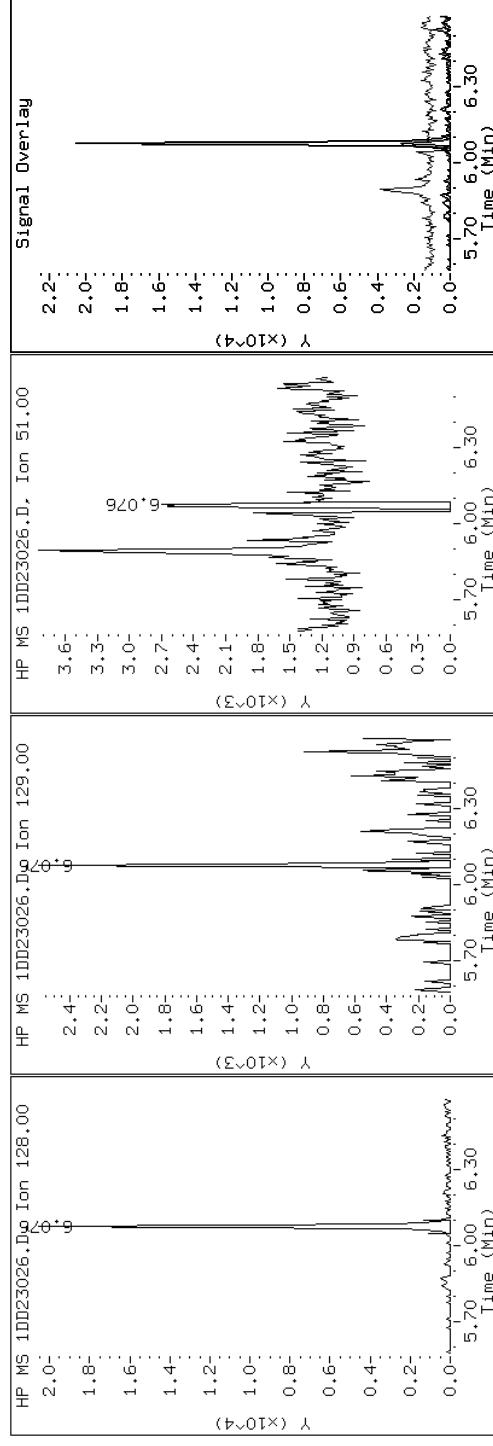
Client ID: CV1344B-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-25-A

Operator: SCC

2 Naphthalene



Data File: 1DD23026.D

Date: 23-APR-2013 22:23

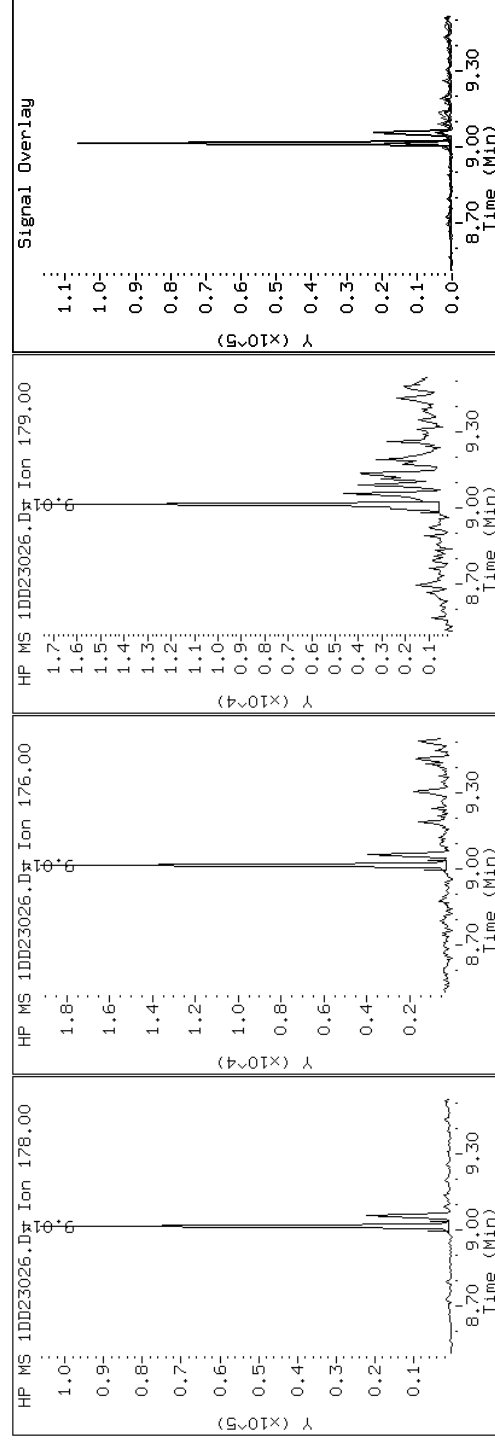
Client ID: CV1344B-CS

Sample Info: 680-89459-A-25-A

Instrument: BSMSD.i

Operator: SCC

10 Phenanthrene



Data File: 1DD23026.D

Date: 23-APR-2013 22:23

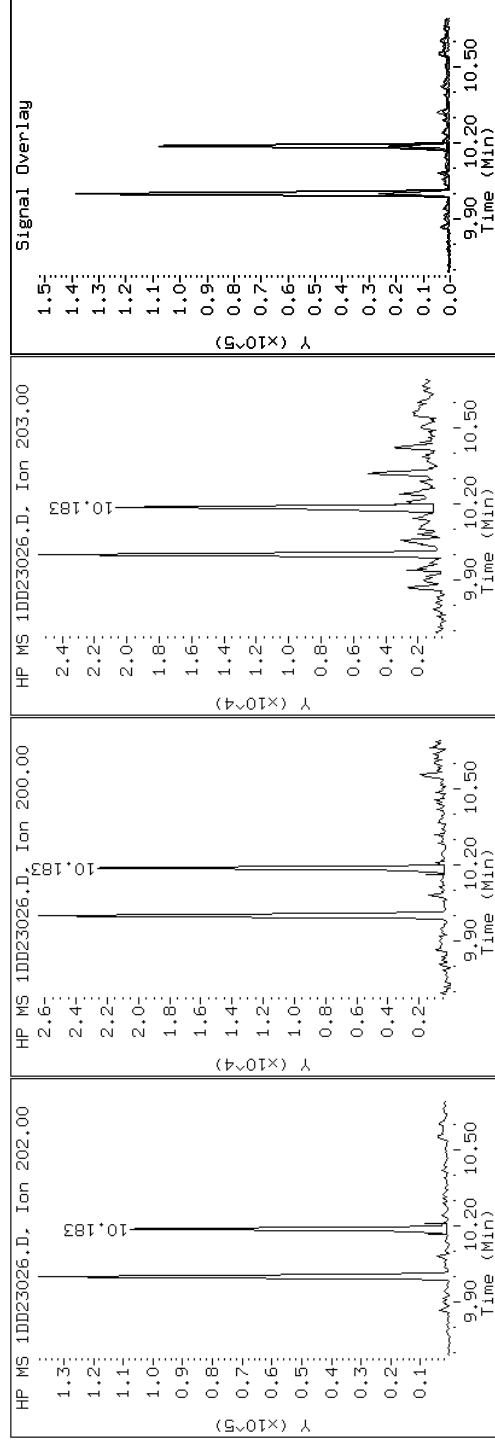
Client ID: CV1344B-CS

Sample Info: 680-89459-A-25-A

Instrument: BSMDS.i

Operator: SCC

15 Pyrene

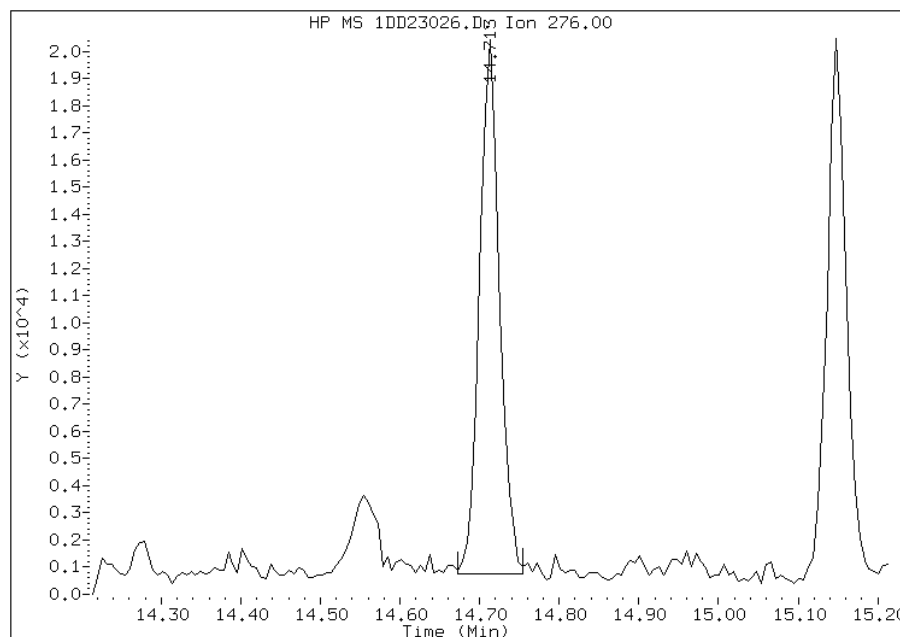


Manual Integration Report

Data File: 1DD23026.D
Inj. Date and Time: 23-APR-2013 22:23
Instrument ID: BSMSD.i
Client ID: CV1344B-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

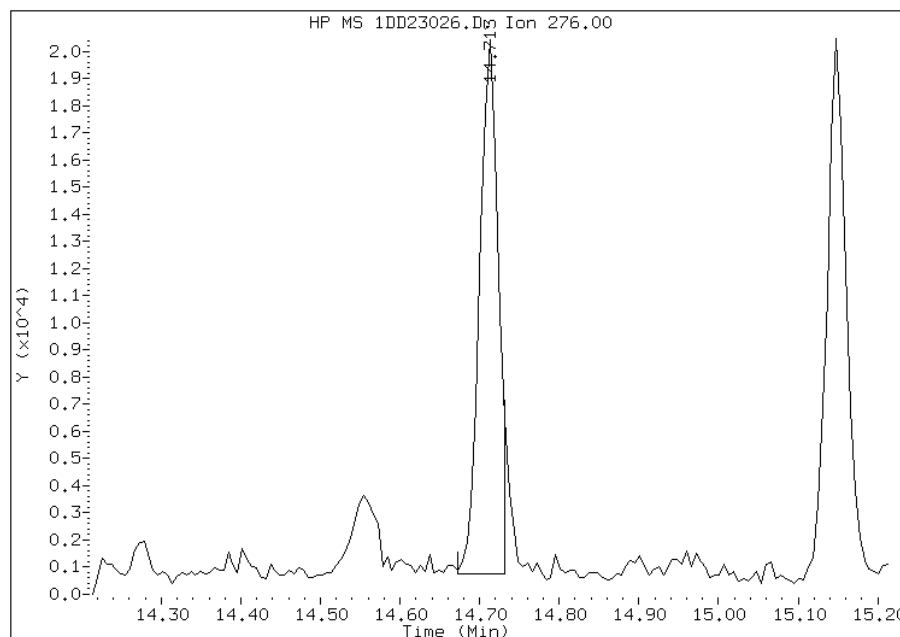
Processing Integration Results

RT: 14.71
Response: 33938
Amount: 1
Conc: 209



Manual Integration Results

RT: 14.71
Response: 31969
Amount: 1
Conc: 197



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 13:24
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-2</u>
SDG No.: <u>68089459-2</u>	
Client Sample ID: <u>CV1344C-CS</u>	Lab Sample ID: <u>680-89459-26</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD23027.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 13:34</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 15:35</u>
Sample wt/vol: <u>14.91(g)</u>	Date Analyzed: <u>04/23/2013 22:45</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>4</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>22.0</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136756</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	41	J	210	26
120-12-7	Anthracene	110		43	22
56-55-3	Benzo[a]anthracene	380		41	20
50-32-8	Benzo[a]pyrene	340		54	27
205-99-2	Benzo[b]fluoranthene	620		63	31
191-24-2	Benzo[g,h,i]perylene	160		100	23
207-08-9	Benzo[k]fluoranthene	190		41	19
218-01-9	Chrysene	470		46	23
53-70-3	Dibenz(a,h)anthracene	65	J	100	21
206-44-0	Fluoranthene	740		100	21
86-73-7	Fluorene	38	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	150		100	37
90-12-0	1-Methylnaphthalene	130	J	210	23
91-57-6	2-Methylnaphthalene	130	J	210	37
91-20-3	Naphthalene	100	J	210	23
85-01-8	Phenanthrene	510		41	20
129-00-0	Pyrene	500		100	19

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23027.D
 Lab Smp Id: 680-89459-A-26-A Client Smp ID: CV1344C-CS
 Inj Date : 23-APR-2013 22:45
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89459-A-26-A
 Misc Info : 680-89459-A-26-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
 Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 26
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.910	Weight Extracted
M	22.026	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.054	6.051	(1.000)		1919189	40.0000	
* 6 Acenaphthene-d10	164		7.734	7.732	(1.000)		1101638	40.0000	
* 9 Phenanthrene-d10	188		8.998	8.995	(1.000)		1802938	40.0000	
\$ 13 o-Terphenyl	230		9.303	9.306	(1.034)		25828	0.95076	330
* 17 Chrysene-d12	240		11.313	11.304	(1.000)		2113031	40.0000	
* 22 Perylene-d12	264		13.140	13.120	(1.000)		2057935	40.0000	
2 Naphthalene	128		6.077	6.075	(1.004)		14507	0.30411	100
3 2-Methylnaphthalene	142		6.783	6.780	(1.120)		11728	0.38086	130
4 1-Methylnaphthalene	142		6.877	6.874	(1.136)		10814	0.37187	130
5 Acenaphthylene	152		7.611	7.608	(0.984)		5531	0.11862	41
8 Fluorene	166		8.204	8.208	(1.061)		3786	0.11108	38
10 Phenanthrene	178		9.015	9.013	(1.002)		73651	1.48306	510
11 Anthracene	178		9.056	9.054	(1.007)		15098	0.30631	100
12 Carbazole	167		9.197	9.195	(1.022)		8842	0.20337	70

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
14 Fluoranthene	202	9.996	10.000	(1.111)	110139	2.15520	740
15 Pyrene	202	10.184	10.188	(0.900)	92214	1.45324	500
16 Benzo(a)anthracene	228	11.295	11.287	(0.998)	68291	1.11784	380
18 Chrysene	228	11.330	11.328	(1.002)	78215	1.36542	470
19 Benzo(b)fluoranthene	252	12.588	12.585	(0.958)	92267	1.79481	620(H)
20 Benzo(k)fluoranthene	252	12.617	12.620	(0.960)	30671	0.56632	190
21 Benzo(a)pyrene	252	13.034	13.032	(0.992)	50689	0.98134	340
23 Indeno(1,2,3-cd)pyrene	276	14.709	14.706	(1.119)	24233	0.43998	150(M)
24 Dibenzo(a,h)anthracene	278	14.726	14.735	(1.121)	9814	0.18922	65(H)
25 Benzo(g,h,i)perylene	276	15.149	15.141	(1.153)	24540	0.46274	160

QC Flag Legend

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

Data File: 1DD23027.D

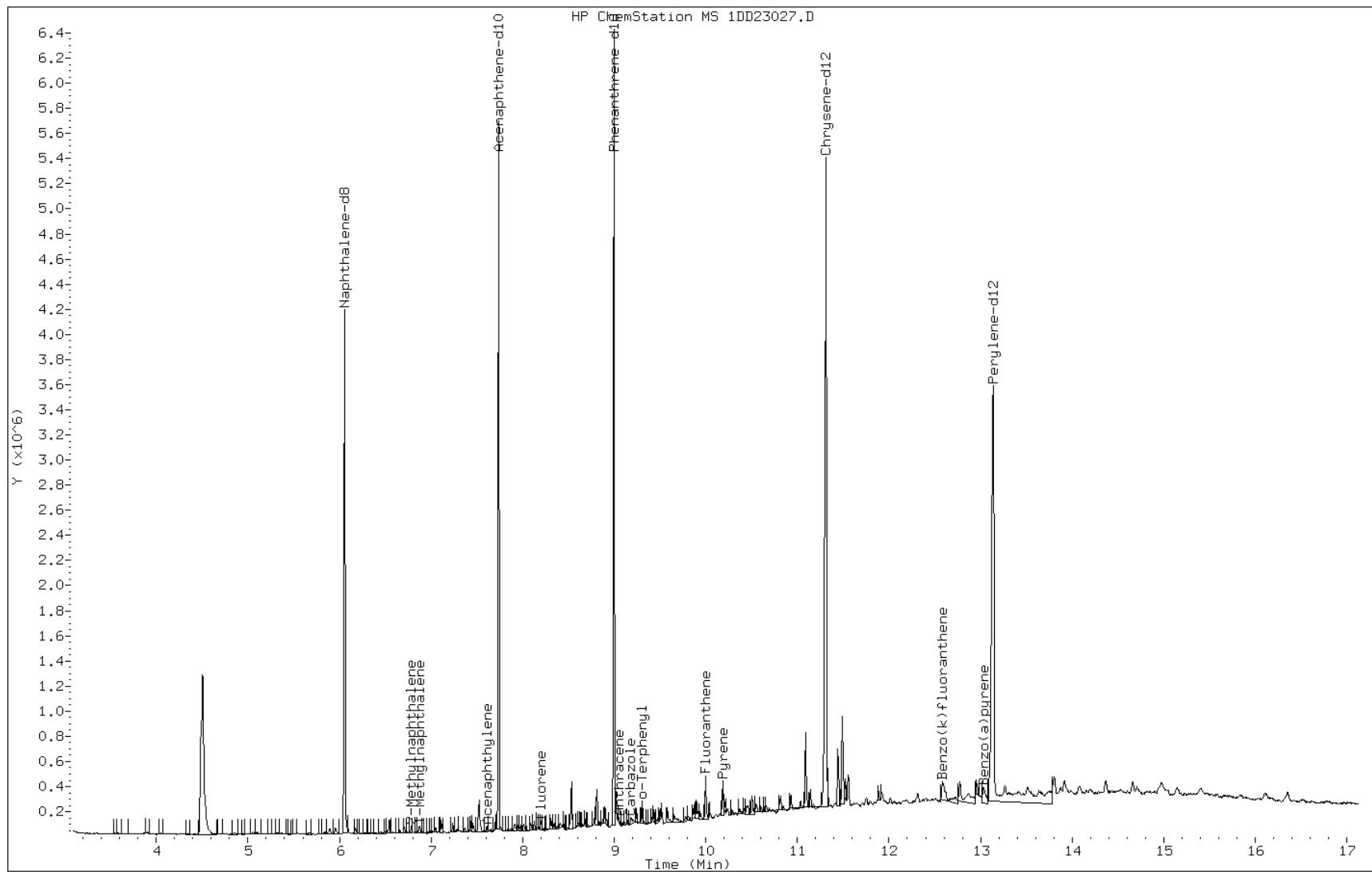
Date: 23-APR-2013 22:45

Client ID: CV1344C-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-26-A

Operator: SCC



Data File: 1DD23027.D

Date: 23-APR-2013 22:45

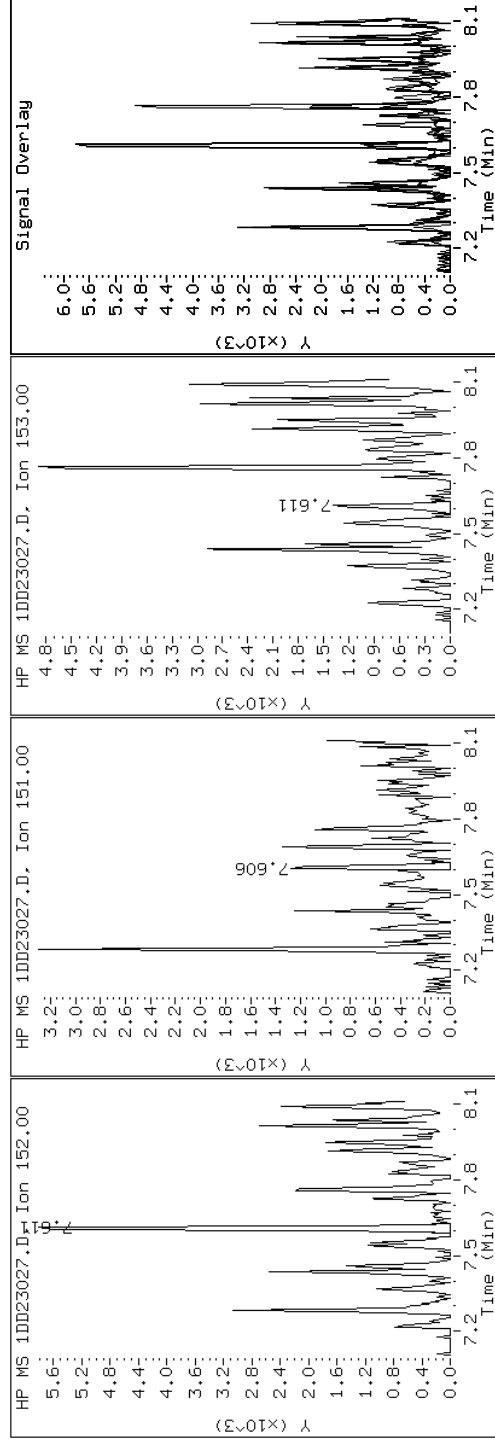
Client ID: CV1344C-CS

Sample Info: 680-89459-A-26-A

Instrument: BSMDS.i

Operator: SCC

5 Acenaphthylene



Data File: 1DD23027.D

Date: 23-APR-2013 22:45

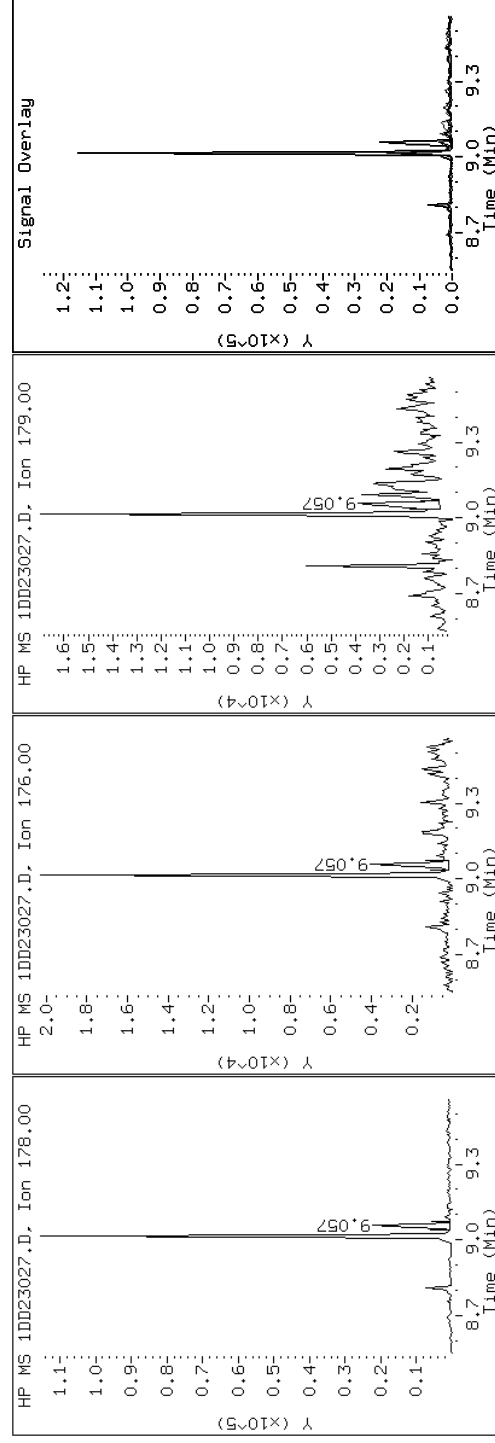
Client ID: CV1344C-CS

Sample Info: 680-89459-A-26-A

Instrument: BSMSD.i

Operator: SCC

11 Anthracene



Data File: 1DD23027.D

Date: 23-APR-2013 22:45

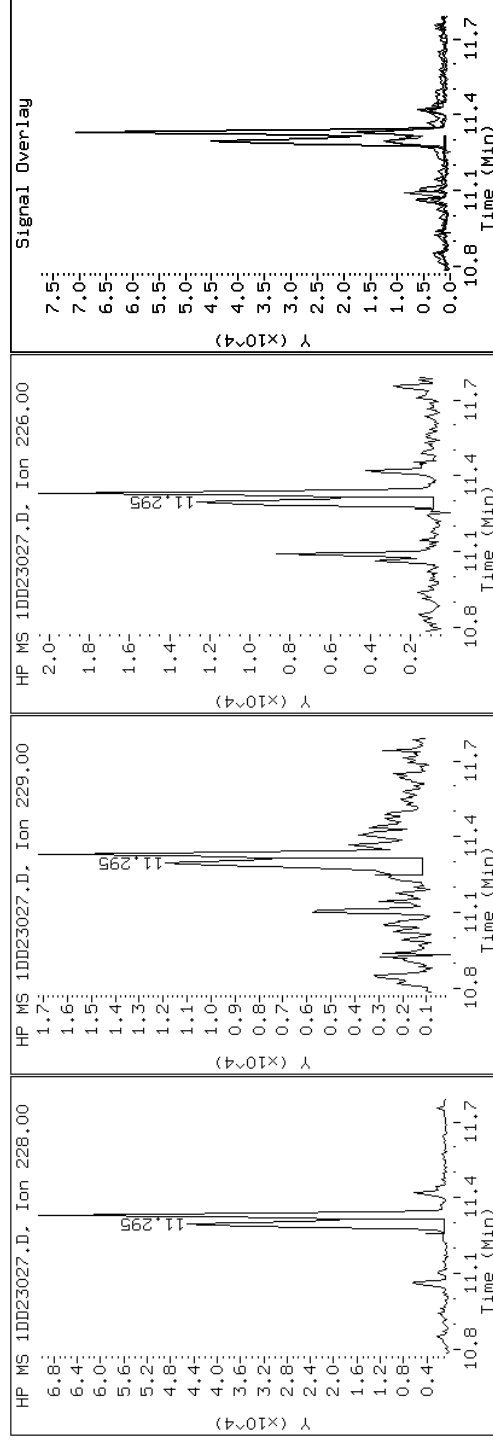
Client ID: CV1344C-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-26-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD23027.D

Date: 23-APR-2013 22:45

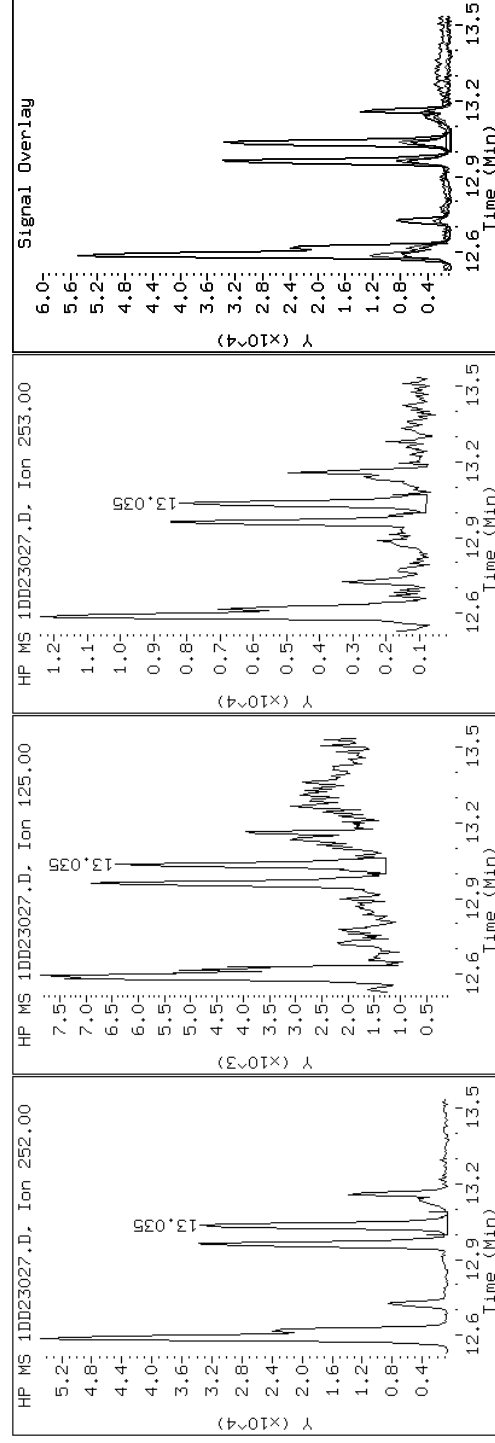
Client ID: CV1344C-CS

Sample Info: 680-89459-A-26-A

Instrument: BSMDS.i

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD23027.D

Date: 23-APR-2013 22:45

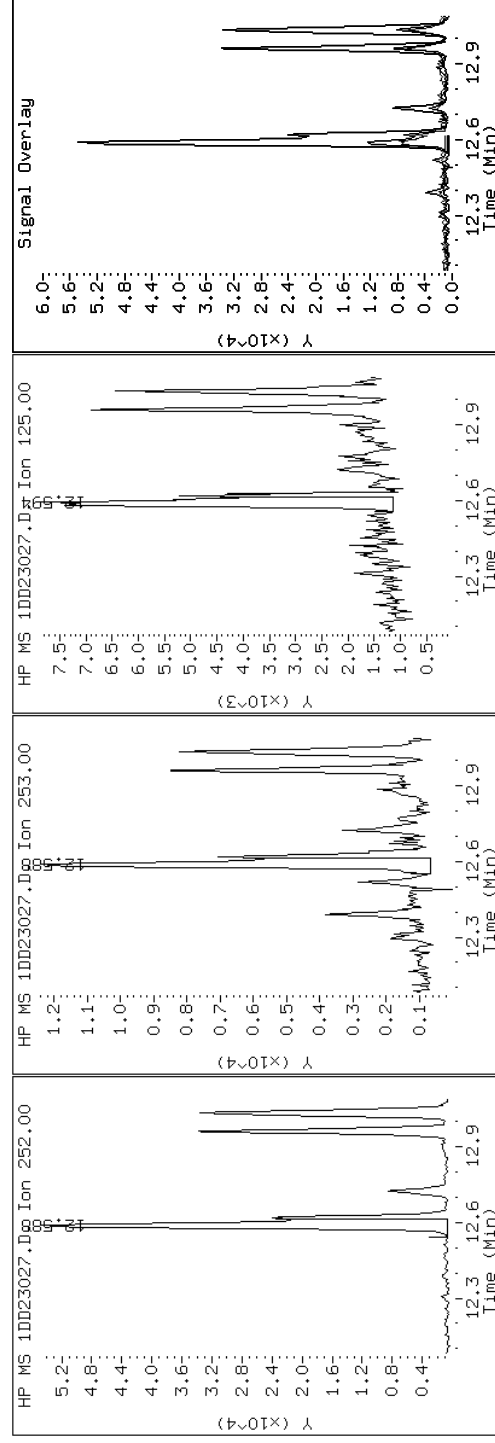
Client ID: CV1344C-CS

Sample Info: 680-89459-A-26-A

Instrument: BSMDS.i

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD23027.D

Date: 23-APR-2013 22:45

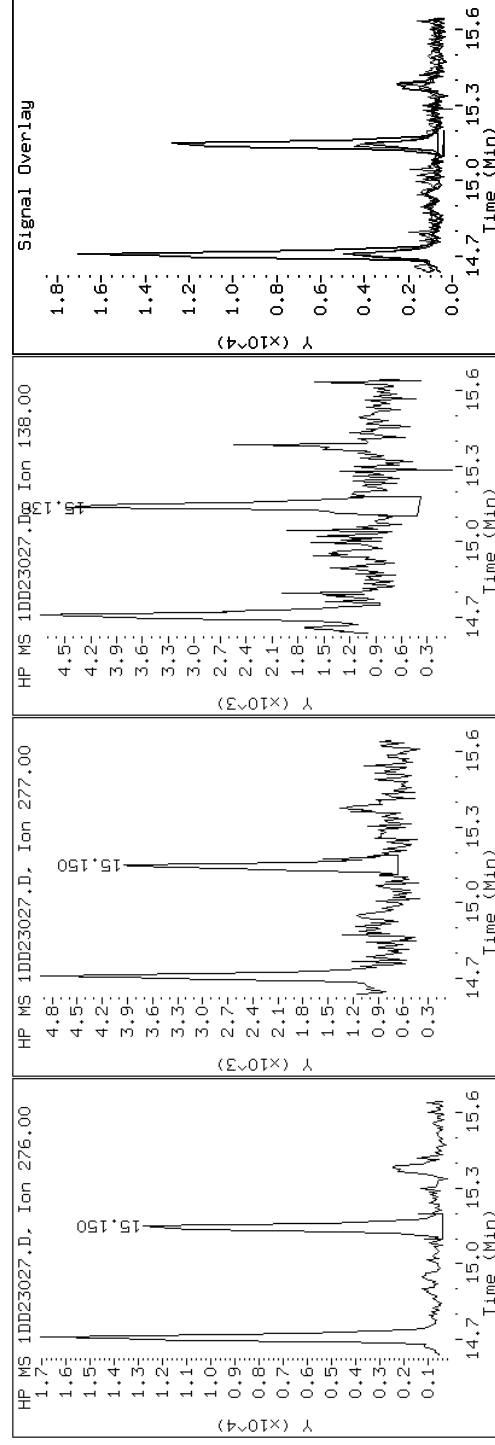
Client ID: CV1344C-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-26-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD23027.D

Date: 23-APR-2013 22:45

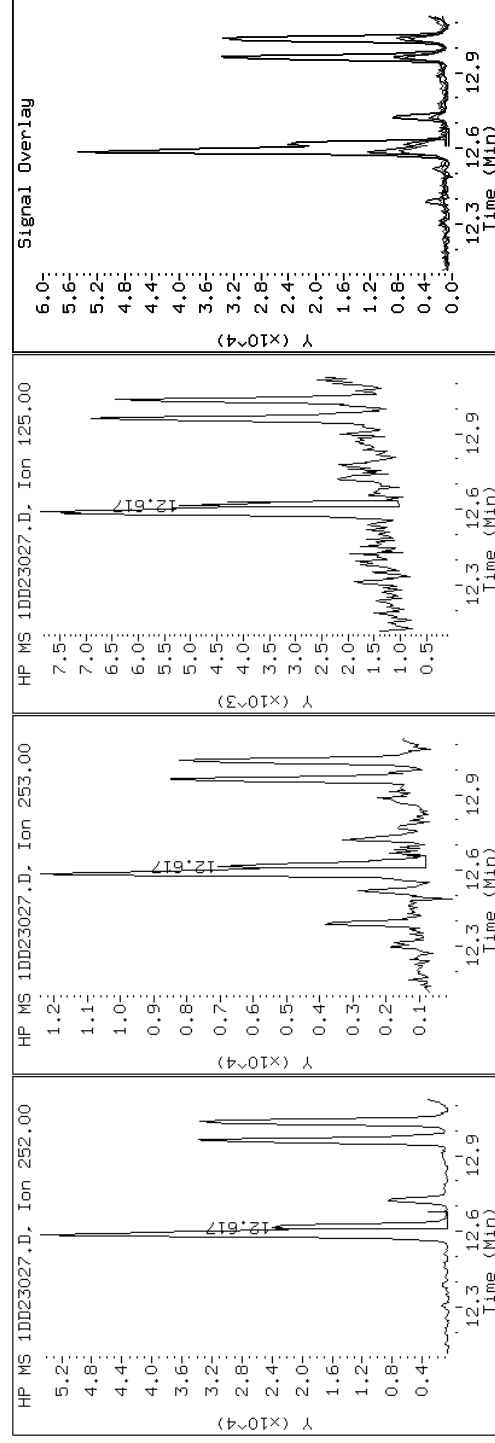
Client ID: CV1344C-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-26-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD23027.D

Date: 23-APR-2013 22:45

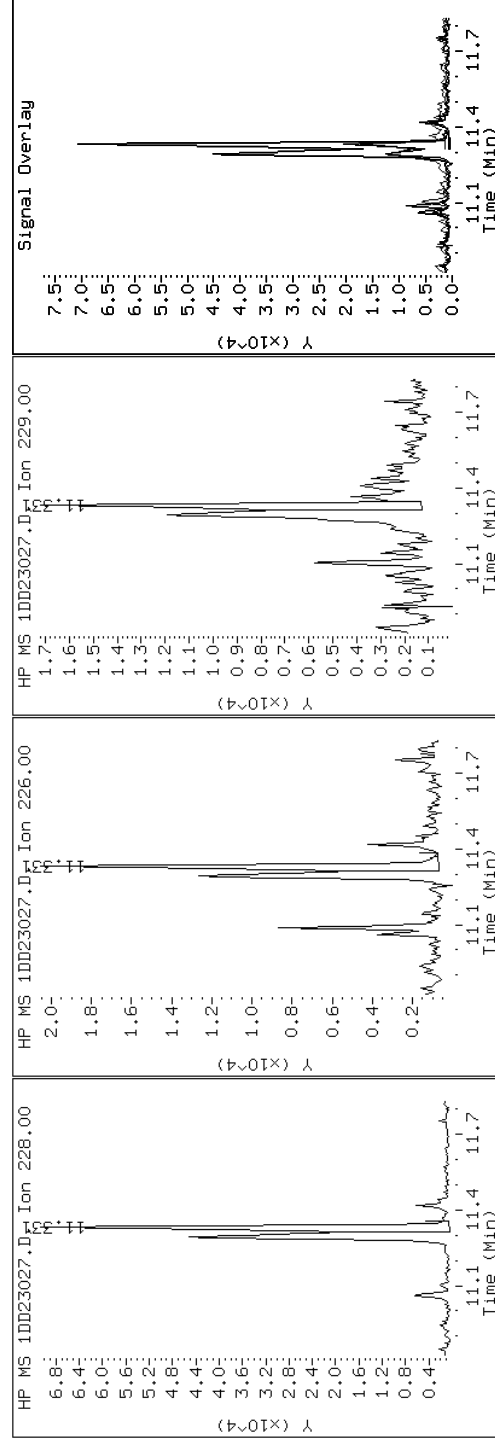
Client ID: CV1344C-CS

Sample Info: 680-89459-A-26-A

18 Chrysene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23027.D

Date: 23-APR-2013 22:45

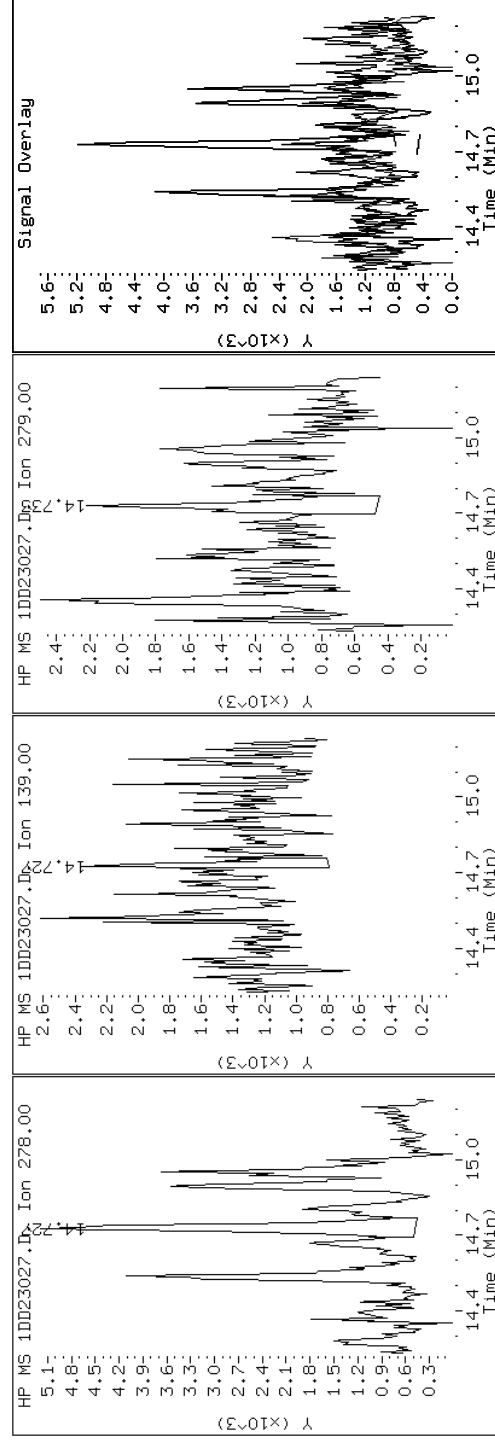
Client ID: CV1344C-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-26-A

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD23027.D

Date: 23-APR-2013 22:45

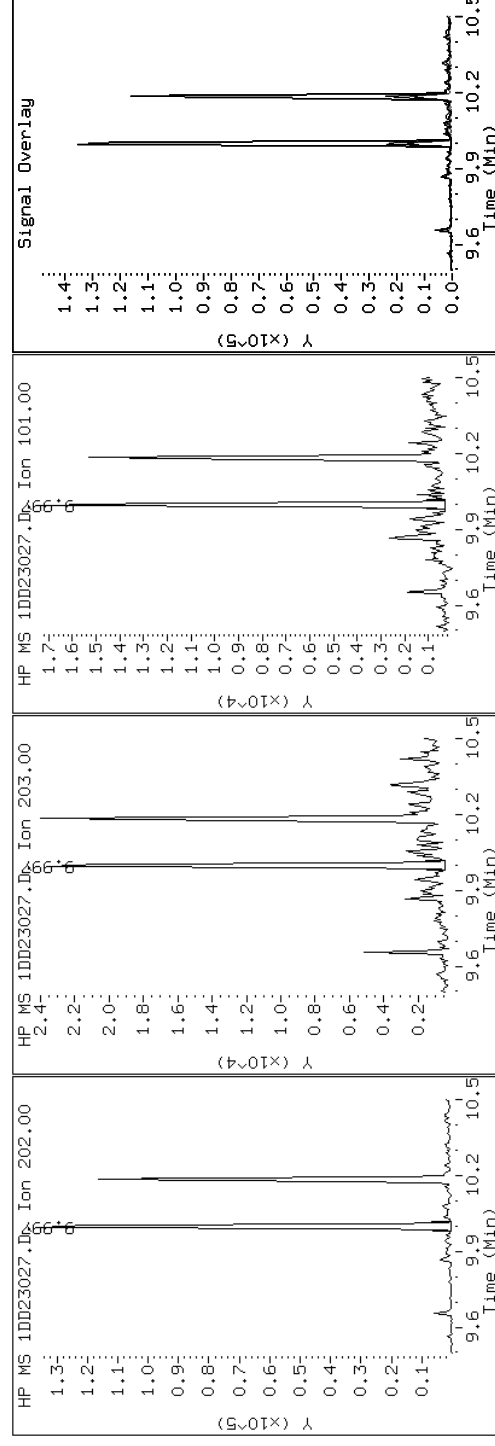
Client ID: CV1344C-CS

Sample Info: 680-89459-A-26-A

Instrument: BSMSD.i

Operator: SCC

14 Fluoranthene



Data File: 1DD23027.D

Date: 23-APR-2013 22:45

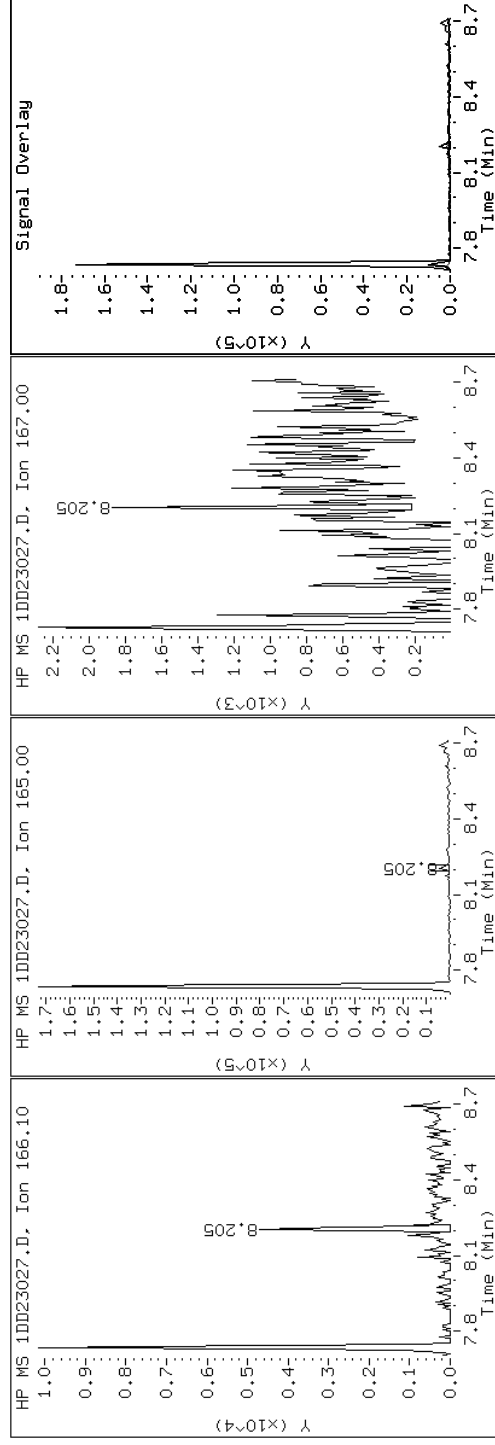
Client ID: CV1344C-CS

Sample Info: 680-89459-A-26-A

8 Fluorene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23027.D

Date: 23-APR-2013 22:45

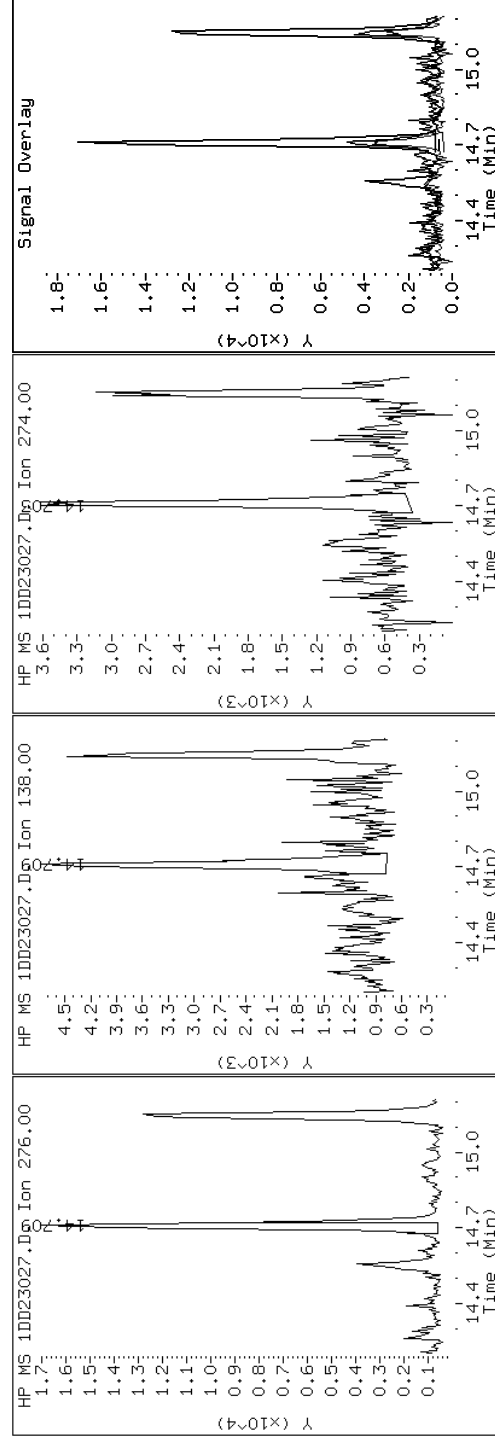
Client ID: CV1344C-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-26-A

Operator: SCC

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



Data File: 1DD23027.D

Date: 23-APR-2013 22:45

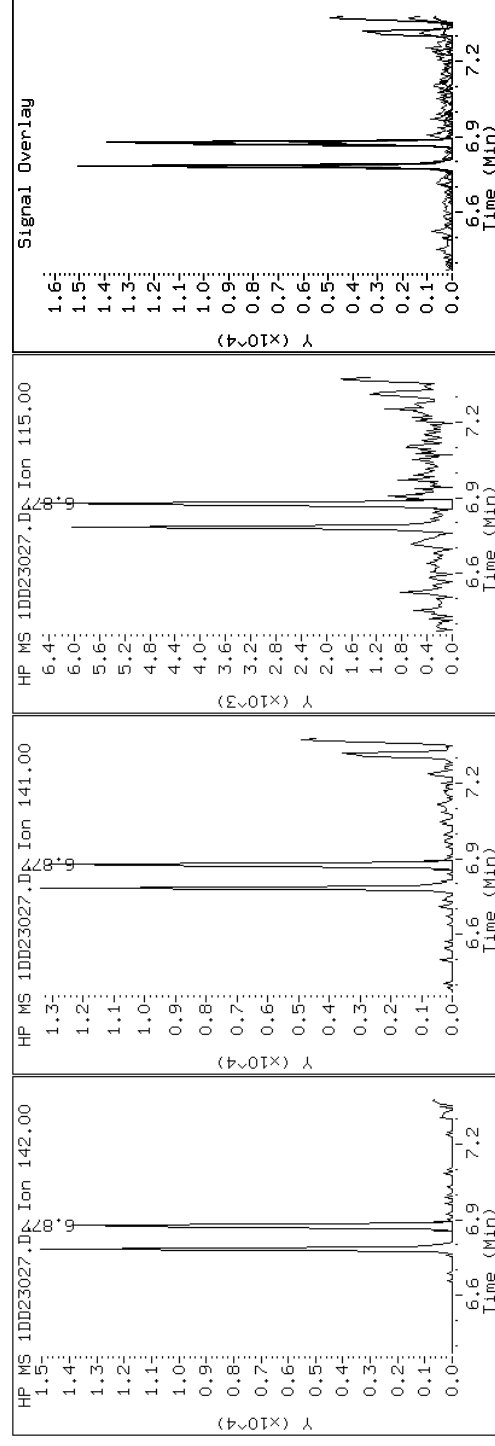
Client ID: CV1344C-CS

Sample Info: 680-89459-A-26-A

Instrument: BSMDS.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD23027.D

Date: 23-APR-2013 22:45

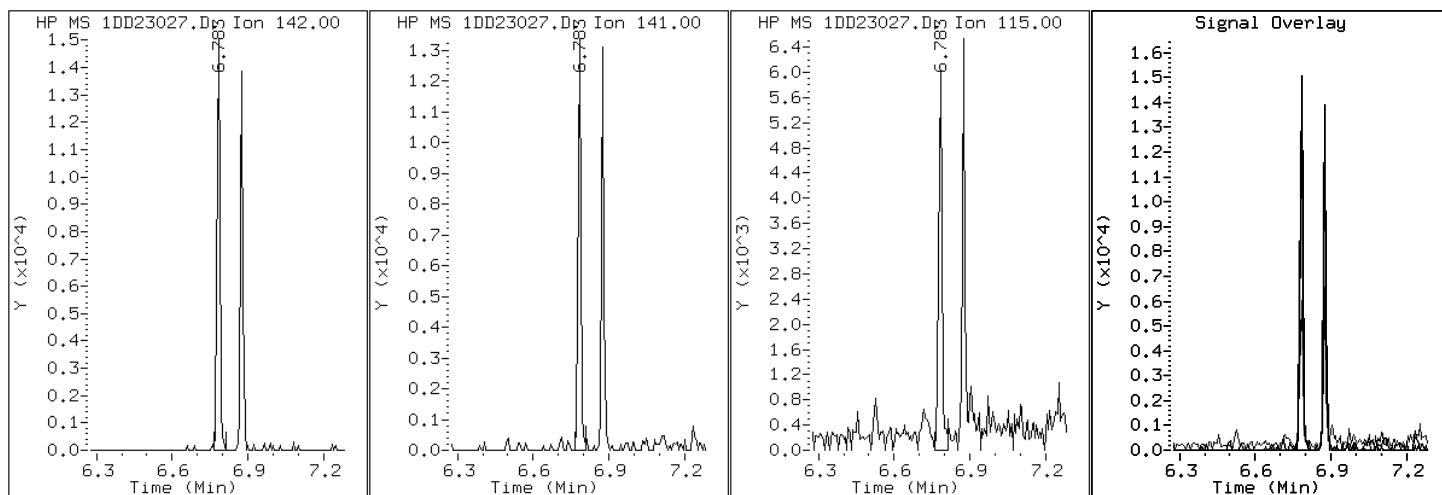
Client ID: CV1344C-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-26-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD23027.D

Date: 23-APR-2013 22:45

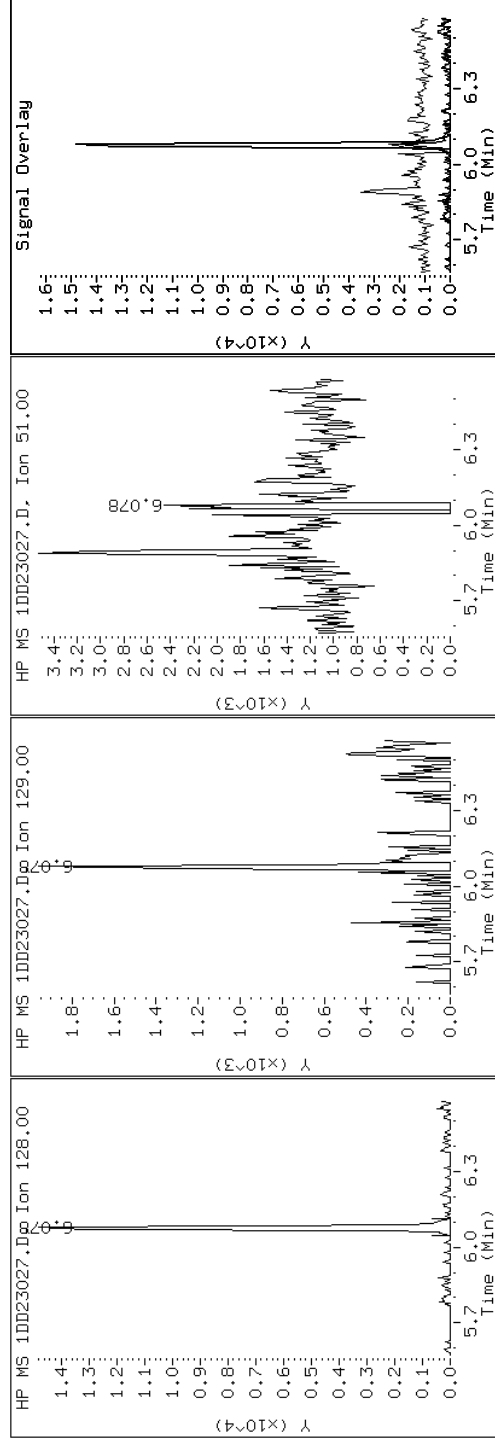
Client ID: CV1344C-CS

Sample Info: 680-89459-A-26-A

2 Naphthalene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23027.D

Date: 23-APR-2013 22:45

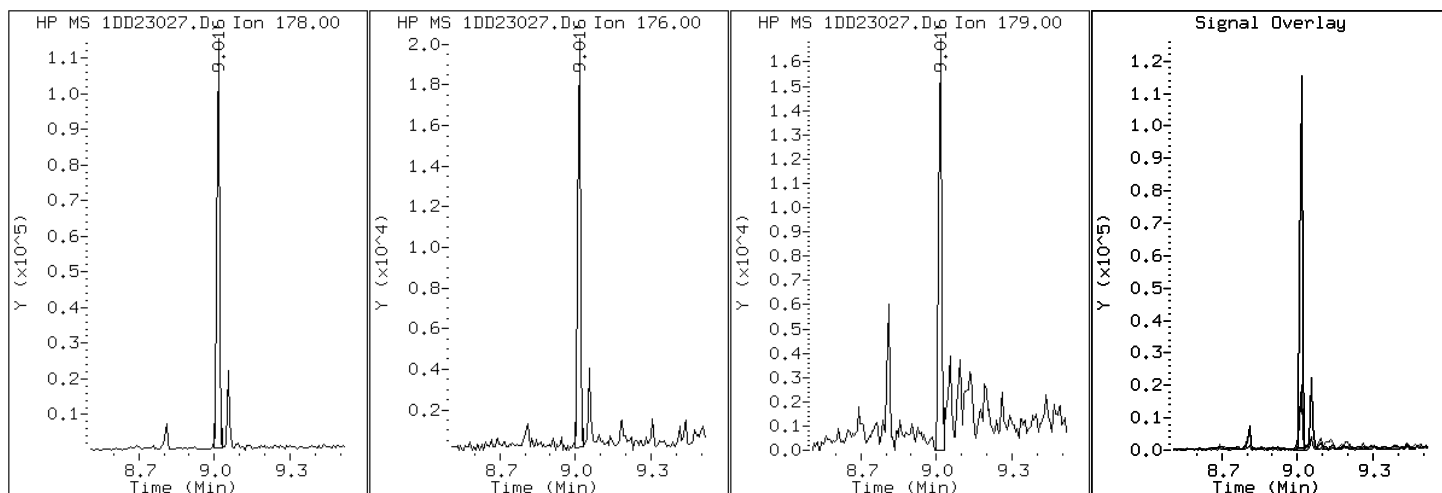
Client ID: CV1344C-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-26-A

Operator: SCC

10 Phenanthrene



Data File: 1DD23027.D

Date: 23-APR-2013 22:45

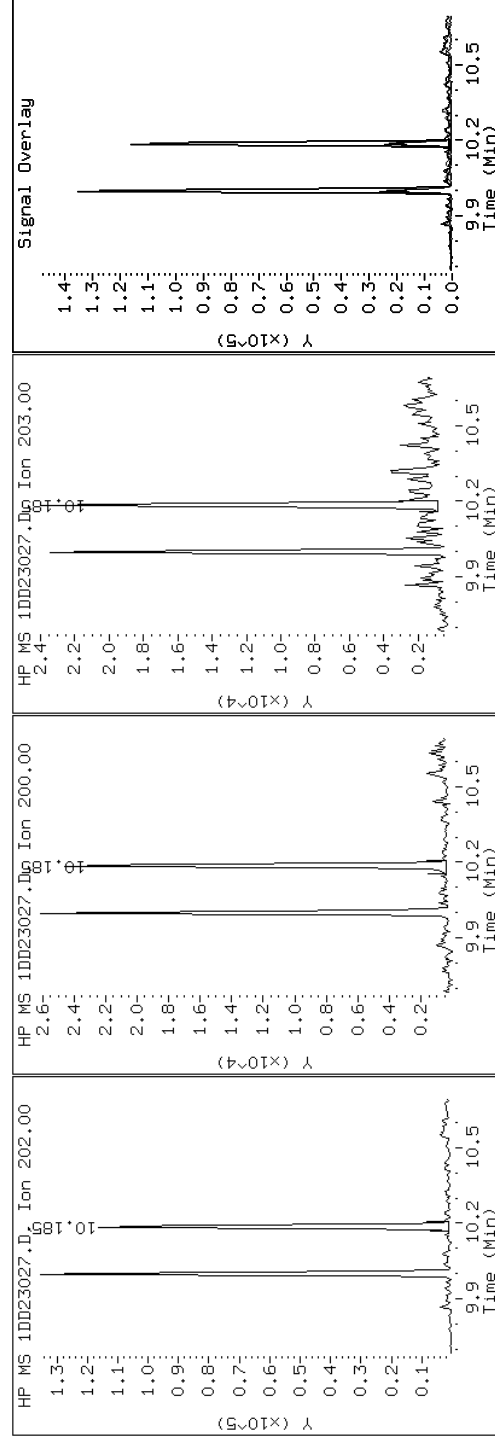
Client ID: CV1344C-CS

Sample Info: 680-89459-A-26-A

Instrument: BSMSD.i

Operator: SCC

15 Pyrene

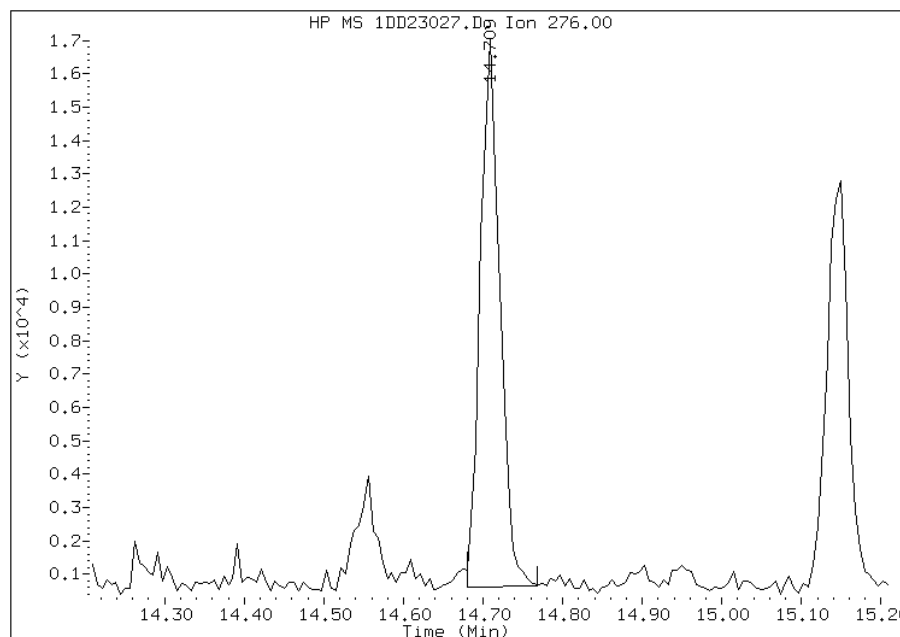


Manual Integration Report

Data File: 1DD23027.D
Inj. Date and Time: 23-APR-2013 22:45
Instrument ID: BSMSD.i
Client ID: CV1344C-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

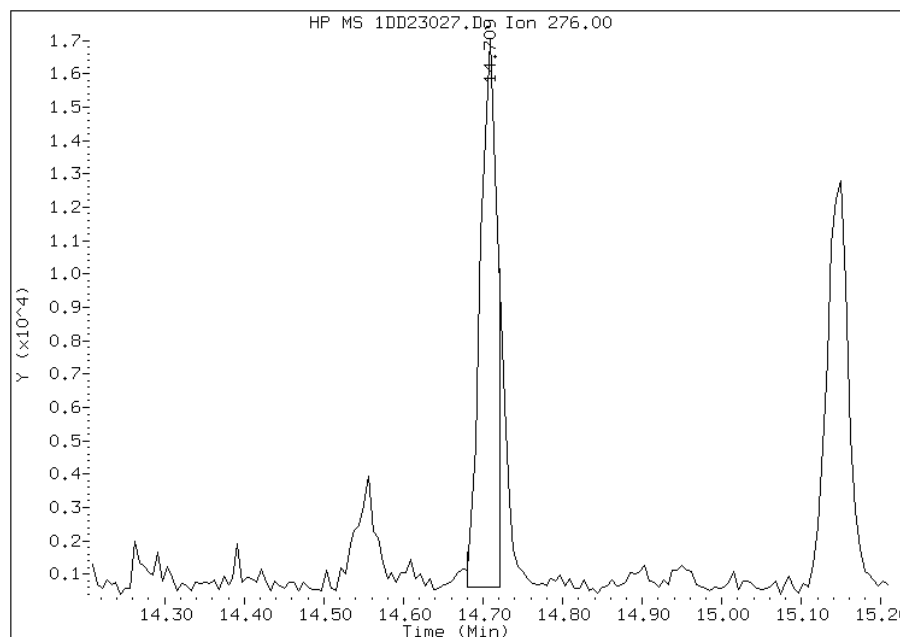
Processing Integration Results

RT: 14.71
Response: 27954
Amount: 1
Conc: 175



Manual Integration Results

RT: 14.71
Response: 24233
Amount: 0
Conc: 151



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 13:25
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-2</u>
SDG No.: <u>68089459-2</u>	
Client Sample ID: <u>CV0313A-CS-SP</u>	Lab Sample ID: <u>680-89459-27</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD23028.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 14:40</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 15:35</u>
Sample wt/vol: <u>14.90 (g)</u>	Date Analyzed: <u>04/23/2013 23:08</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>22.6</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136756</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	62		52	6.5
120-12-7	Anthracene	89		11	5.5
56-55-3	Benzo[a]anthracene	420		10	5.1
50-32-8	Benzo[a]pyrene	540		14	6.8
205-99-2	Benzo[b]fluoranthene	970		16	7.9
191-24-2	Benzo[g,h,i]perylene	320		26	5.7
207-08-9	Benzo[k]fluoranthene	330		10	4.7
218-01-9	Chrysene	600		12	5.8
53-70-3	Dibenz(a,h)anthracene	110		26	5.3
206-44-0	Fluoranthene	680		26	5.2
86-73-7	Fluorene	25	J	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	290		26	9.2
90-12-0	1-Methylnaphthalene	150		52	5.7
91-57-6	2-Methylnaphthalene	200		52	9.2
91-20-3	Naphthalene	170		52	5.7
85-01-8	Phenanthrene	410		10	5.1
129-00-0	Pyrene	510		26	4.8

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23028.D
Lab Smp Id: 680-89459-A-27-A Client Smp ID: CV0313A-CS-SP
Inj Date : 23-APR-2013 23:08
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89459-A-27-A
Misc Info : 680-89459-A-27-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.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	14.900	Weight Extracted
M	22.560	% 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

						CONCENTRATIONS			
		QUANT	SIG					ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)	
=====		=====	=====	=====	=====	=====	=====	=====	
*	1 Naphthalene-d8	136	6.056	6.051	(1.000)	2008574	40.0000		
*	6 Acenaphthene-d10	164	7.736	7.732	(1.000)	1133881	40.0000		
*	9 Phenanthrene-d10	188	9.000	8.995	(1.000)	1784589	40.0000		
\$	13 o-Terphenyl	230	9.305	9.306	(1.034)	160231	5.95897	520	
*	17 Chrysene-d12	240	11.315	11.304	(1.000)	2069349	40.0000		
*	22 Perylene-d12	264	13.142	13.120	(1.000)	1976428	40.0000		
	2 Naphthalene	128	6.074	6.075	(1.003)	100287	2.00879	170	
	3 2-Methylnaphthalene	142	6.785	6.780	(1.120)	75762	2.35084	200	
	4 1-Methylnaphthalene	142	6.873	6.874	(1.135)	51205	1.68249	140	
	5 Acenaphthylene	152	7.607	7.608	(0.983)	34124	0.71105	62	
	7 Acenaphthene	154	7.760	7.761	(1.003)	6813	0.22999	20	
	8 Fluorene	166	8.207	8.208	(1.061)	10033	0.28601	25	
	10 Phenanthrene	178	9.017	9.013	(1.002)	234673	4.77405	410	
	11 Anthracene	178	9.058	9.054	(1.007)	50370	1.03241	89	

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
12 Carbazole	167	9.199	9.195	(1.022)	27046	0.62847	54
14 Fluoranthene	202	10.004	10.000	(1.112)	399551	7.89879	680
15 Pyrene	202	10.187	10.188	(0.900)	362784	5.83795	500
16 Benzo(a)anthracene	228	11.303	11.287	(0.999)	291704	4.87563	420
18 Chrysene	228	11.338	11.328	(1.002)	388632	6.92769	600
19 Benzo(b)fluoranthene	252	12.601	12.585	(0.959)	553562	11.2121	970
20 Benzo(k)fluoranthene	252	12.631	12.620	(0.961)	197453	3.79621	330
21 Benzo(a)pyrene	252	13.048	13.032	(0.993)	308739	6.22370	540
23 Indeno(1,2,3-cd)pyrene	276	14.728	14.706	(1.121)	179229	3.38834	290(M)
24 Dibenzo(a,h)anthracene	278	14.746	14.735	(1.122)	64425	1.29339	110
25 Benzo(g,h,i)perylene	276	15.169	15.141	(1.154)	190540	3.74112	320

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD23028.D

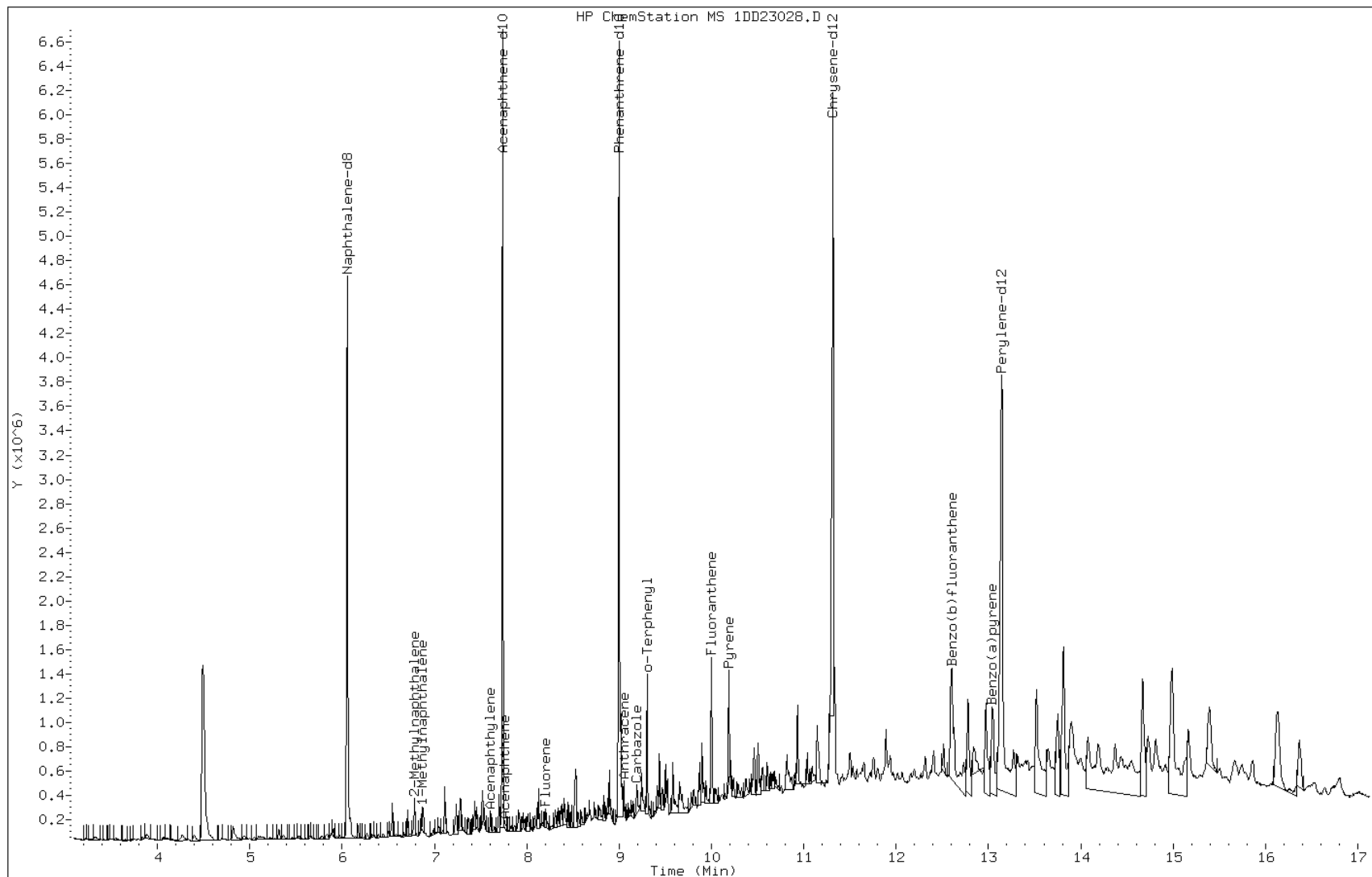
Date: 23-APR-2013 23:08

Client ID: CV0313A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-27-A

Operator: SCC



Data File: 1DD23028.D

Date: 23-APR-2013 23:08

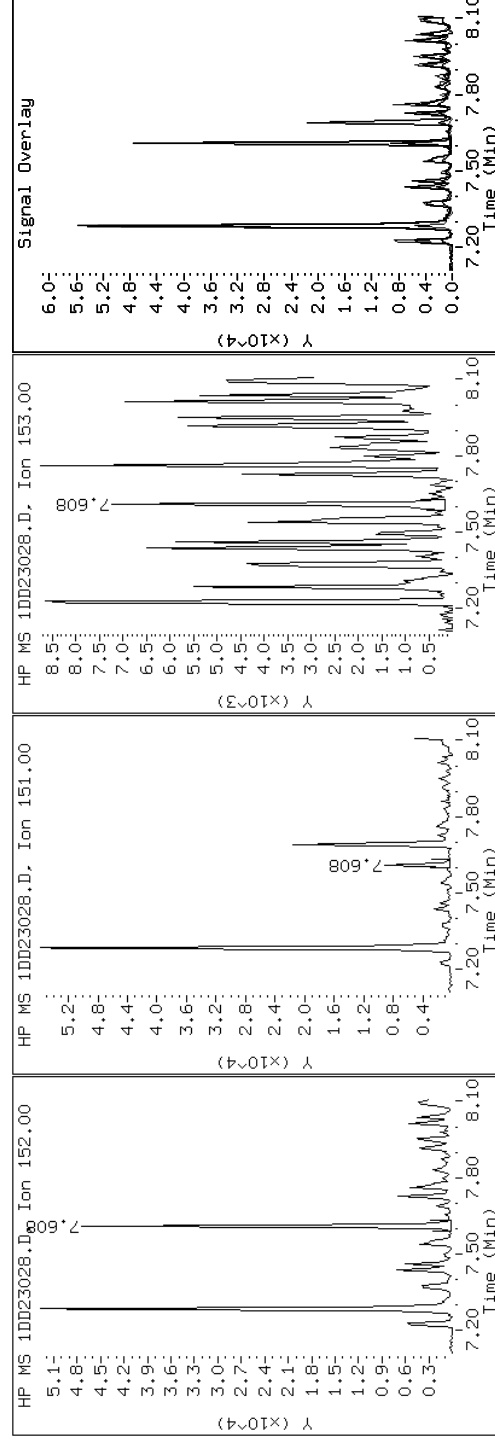
Client ID: CV0313A-CS-SP

Sample Info: 680-89459-A-27-A

Instrument: BSMSD.i

Operator: SCC

5 Acenaphthylene



Data File: 1DD23028.D

Date: 23-APR-2013 23:08

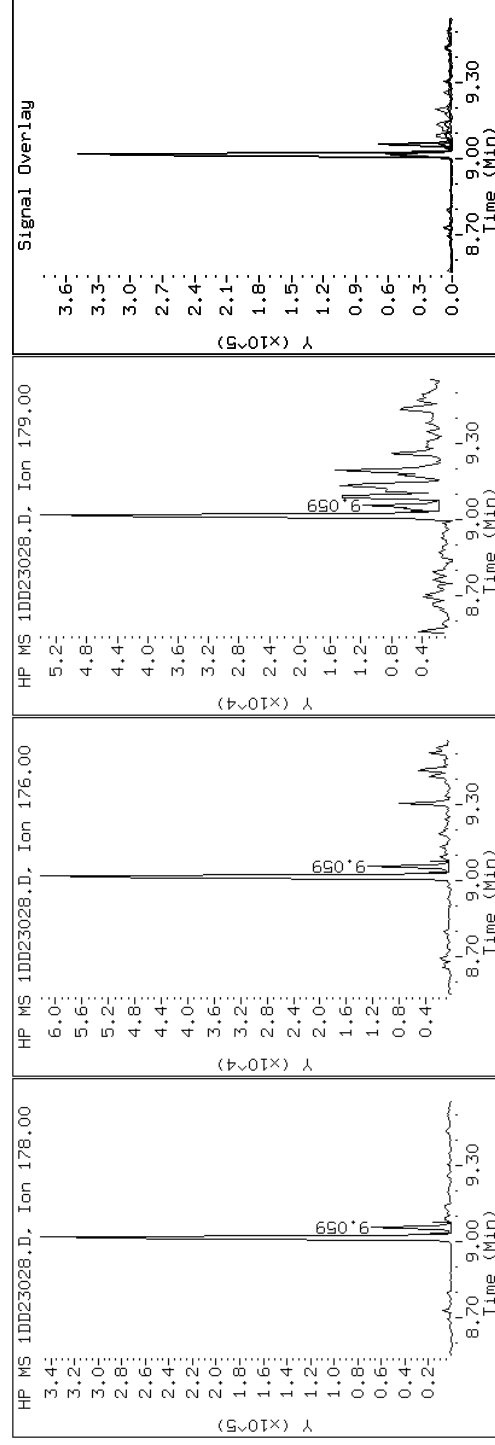
Client ID: CV0313A-CS-SP

Sample Info: 680-89459-A-27-A

11 Anthracene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23028.D

Date: 23-APR-2013 23:08

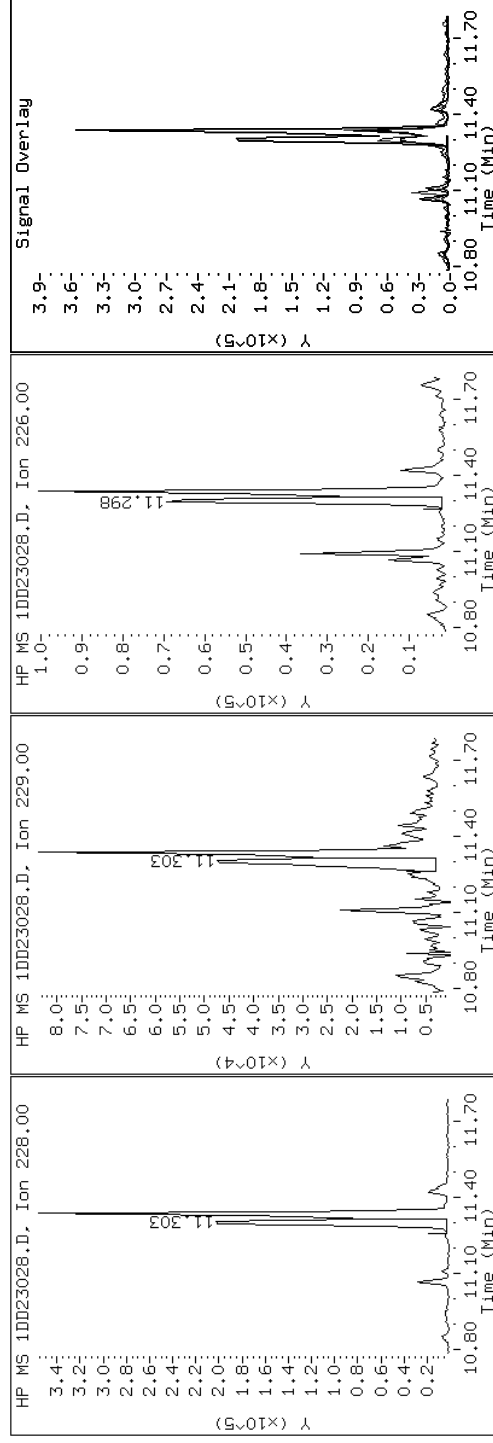
Client ID: CV0313A-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89459-A-27-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD23028.D

Date: 23-APR-2013 23:08

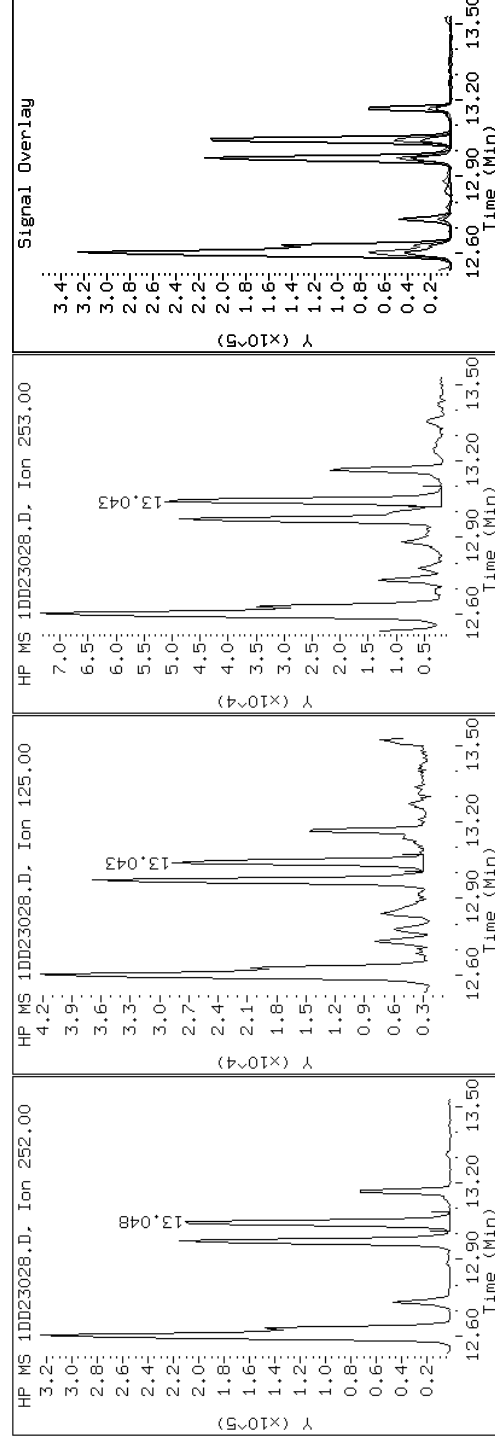
Client ID: CV0313A-CS-SP

Sample Info: 680-89459-A-27-A

Instrument: BSMSD.i

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD23028.D

Date: 23-APR-2013 23:08

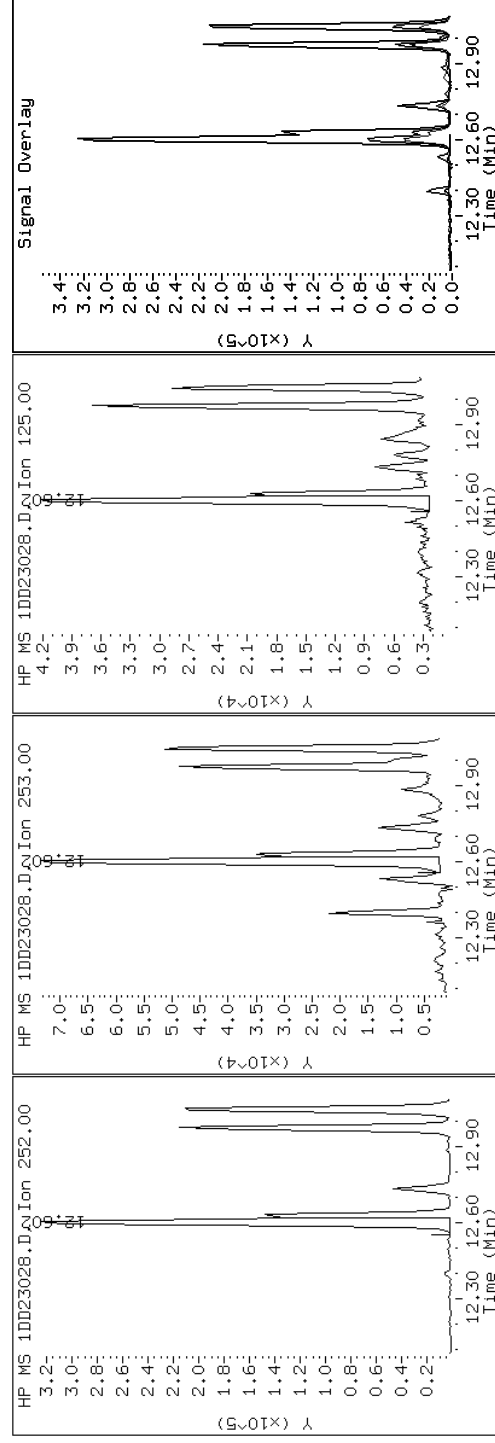
Client ID: CV0313A-CS-SP

Sample Info: 680-89459-A-27-A

Instrument: BSMDS.i

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD23028.D

Date: 23-APR-2013 23:08

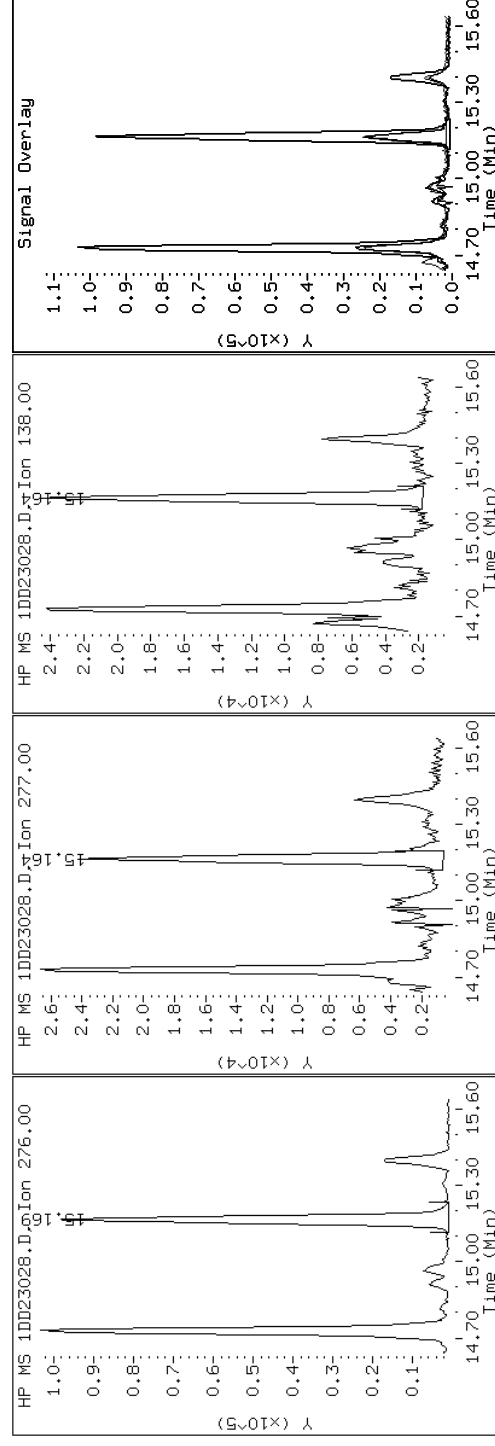
Client ID: CV0313A-CS-SP

Sample Info: 680-89459-A-27-A

Instrument: BSMDS.i

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD23028.D

Date: 23-APR-2013 23:08

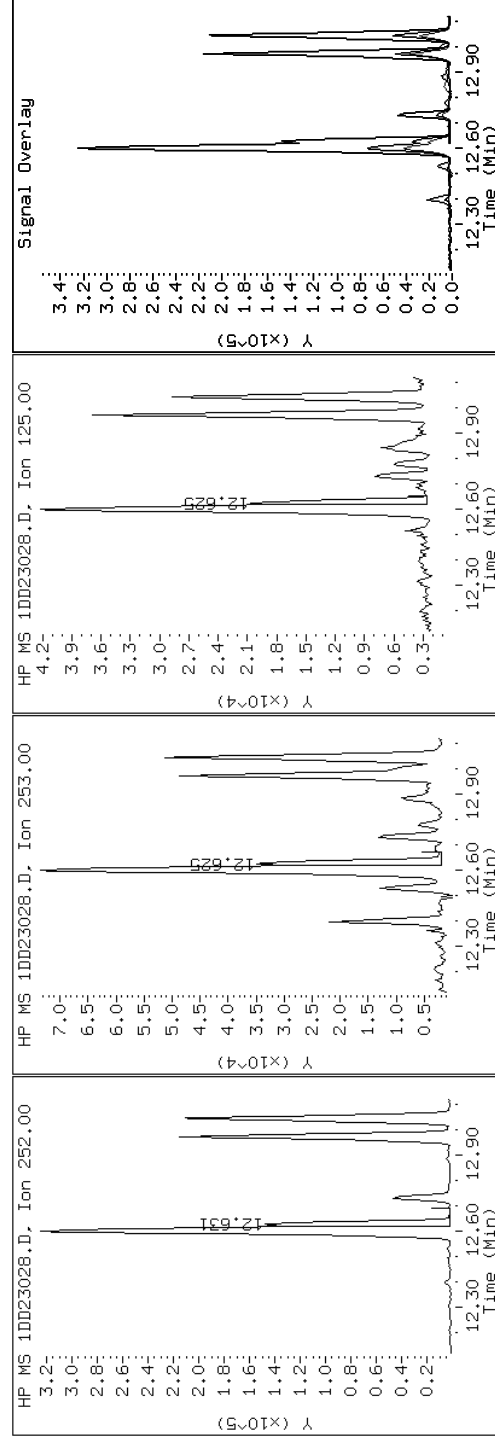
Client ID: CV0313A-CS-SP

Sample Info: 680-89459-A-27-A

Instrument: BSMDS.i

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD23028.D

Date: 23-APR-2013 23:08

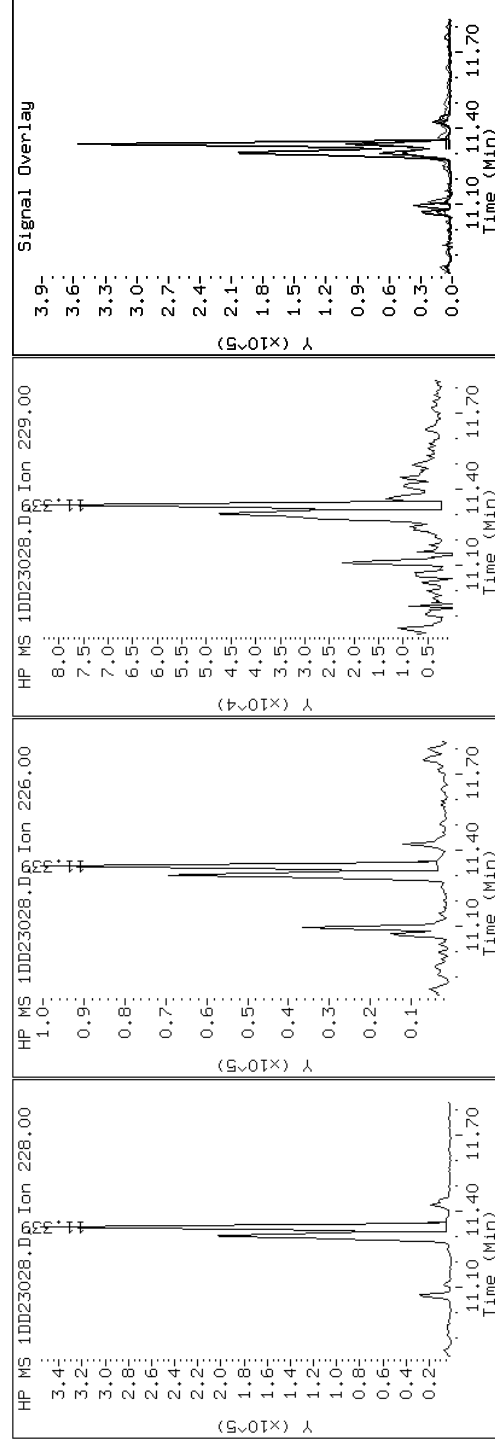
Client ID: CV0313A-CS-SP

Sample Info: 680-89459-A-27-A

18 Chrysene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23028.D

Date: 23-APR-2013 23:08

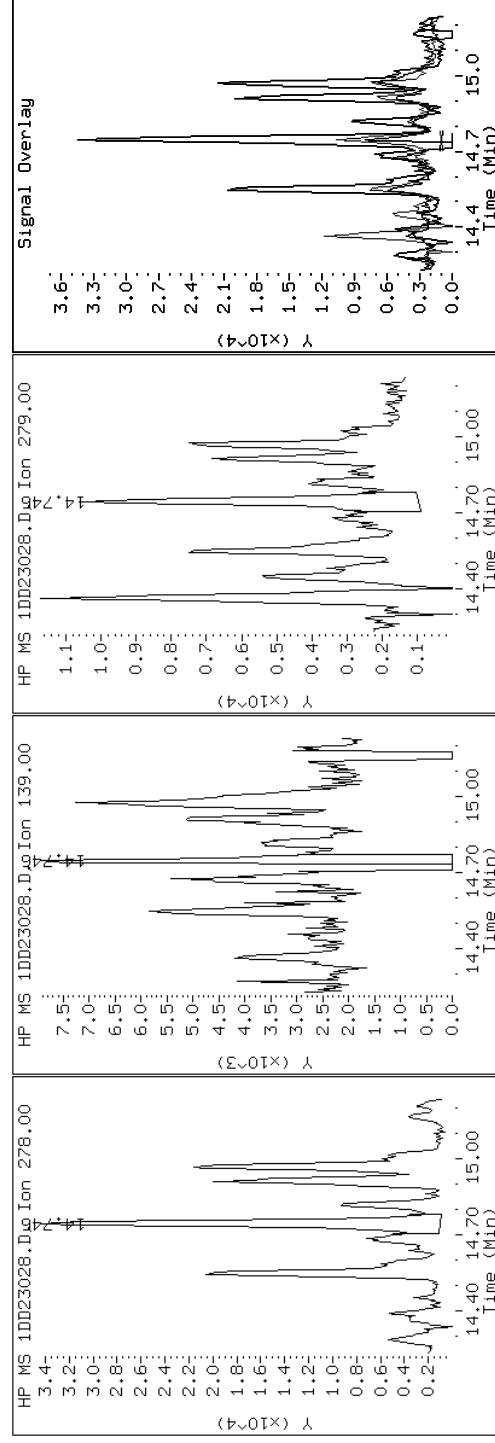
Client ID: CV0313A-CS-SP

Sample Info: 680-89459-A-27-A

Instrument: BSMDS.i

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD23028.D

Date: 23-APR-2013 23:08

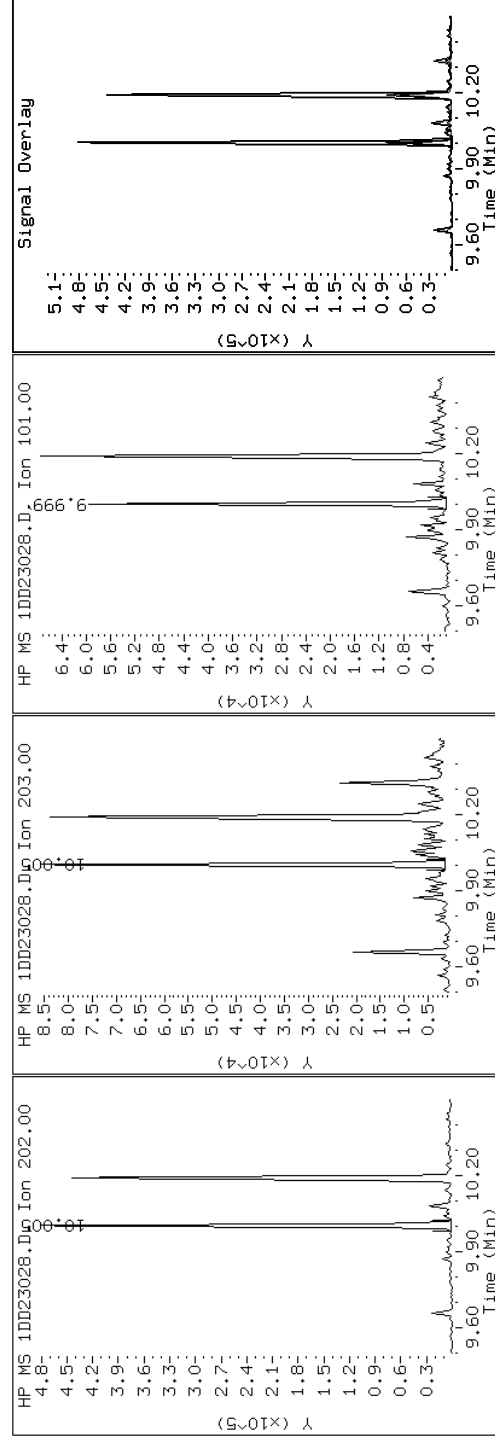
Client ID: CV0313A-CS-SP

Sample Info: 680-89459-A-27-A

Instrument: BSMDS.i

Operator: SCC

14 Fluoranthene



Data File: 1DD23028.D

Date: 23-APR-2013 23:08

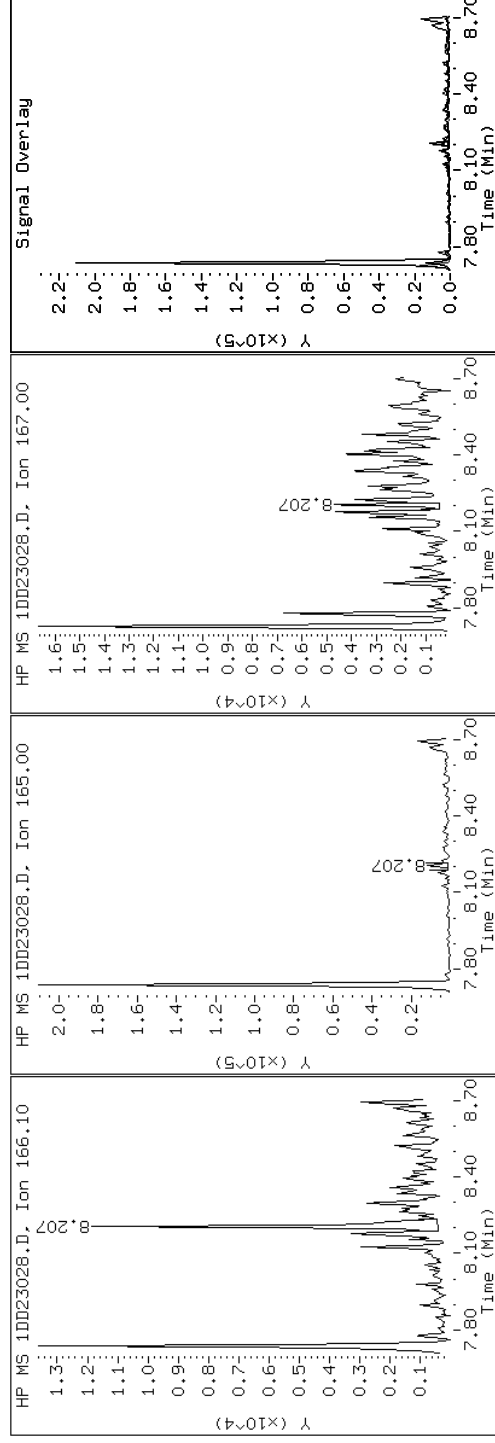
Client ID: CV0313A-CS-SP

Sample Info: 680-89459-A-27-A

Instrument: BSMDS.i

Operator: SCC

8 Fluorene



Data File: 1DD23028.D

Date: 23-APR-2013 23:08

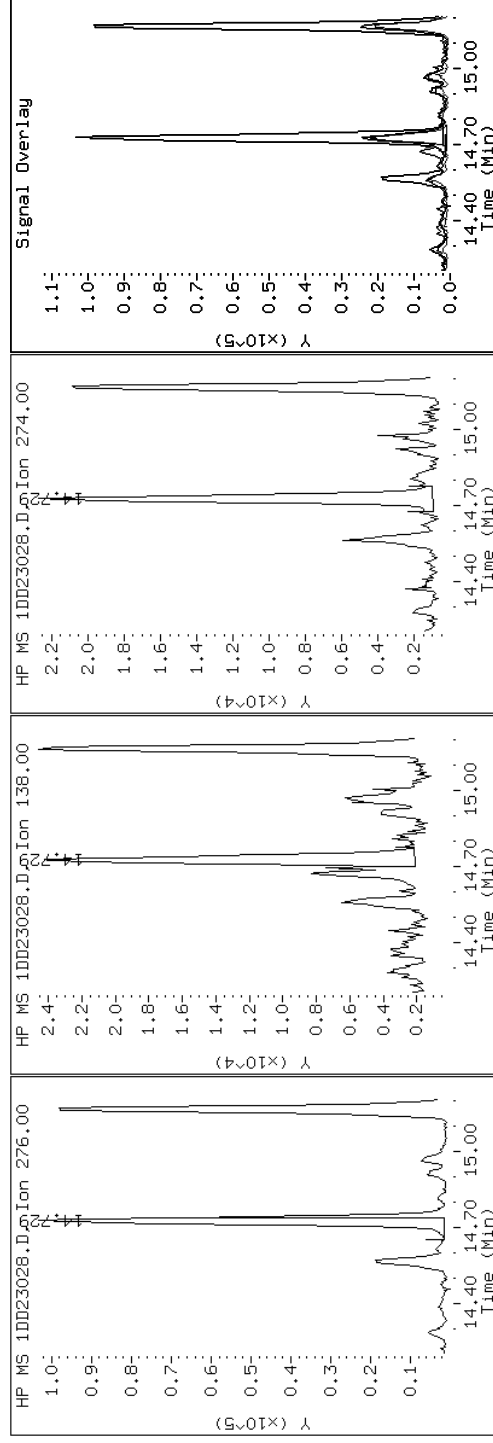
Client ID: CV0313A-CS-SP

Sample Info: 680-89459-A-27-A

Instrument: BSMDS.i

Operator: SCC

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



Data File: 1DD23028.D

Date: 23-APR-2013 23:08

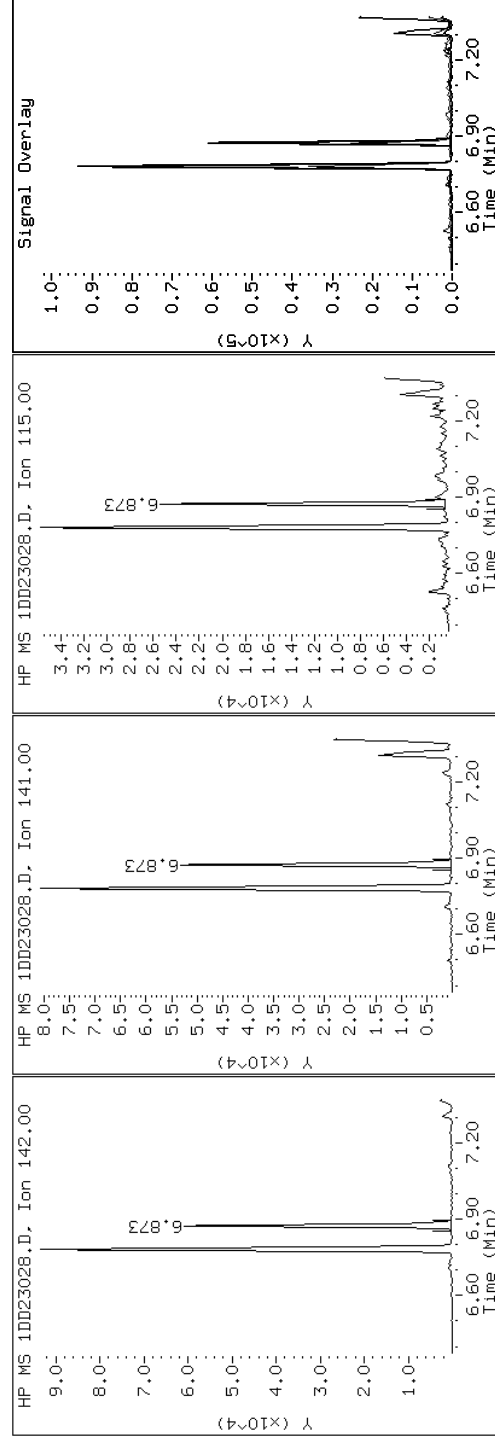
Client ID: CV0313A-CS-SP

Sample Info: 680-89459-A-27-A

Instrument: BSMDS.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD23028.D

Date: 23-APR-2013 23:08

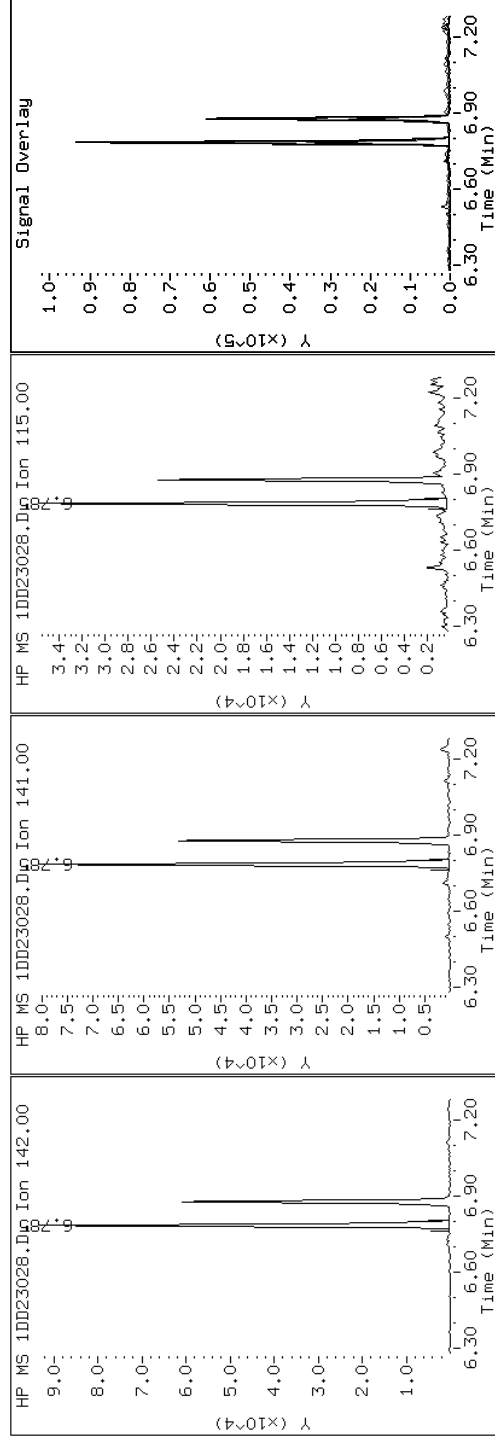
Client ID: CV0313A-CS-SP

Sample Info: 680-89459-A-27-A

Instrument: BSMDS.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD23028.D

Date: 23-APR-2013 23:08

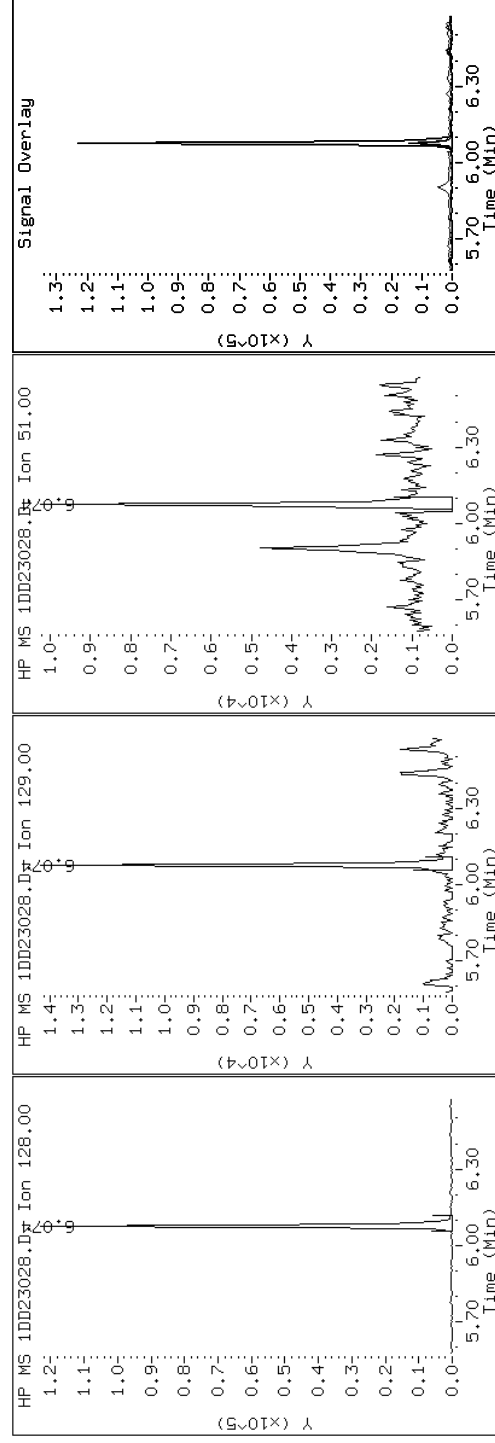
Client ID: CV0313A-CS-SP

Sample Info: 680-89459-A-27-A

Instrument: BSMDS.i

Operator: SCC

2 Naphthalene



Data File: 1DD23028.D

Date: 23-APR-2013 23:08

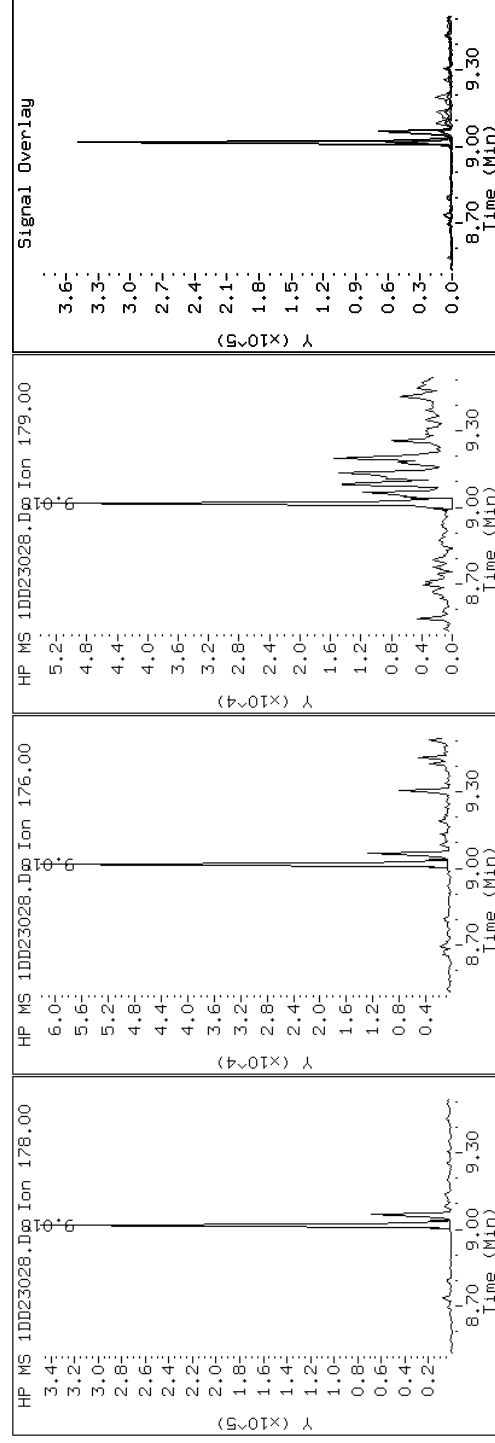
Client ID: CV0313A-CS-SP

Sample Info: 680-89459-A-27-A

Instrument: BSMDS.i

Operator: SCC

10 Phenanthrene



Data File: 1DD23028.D

Date: 23-APR-2013 23:08

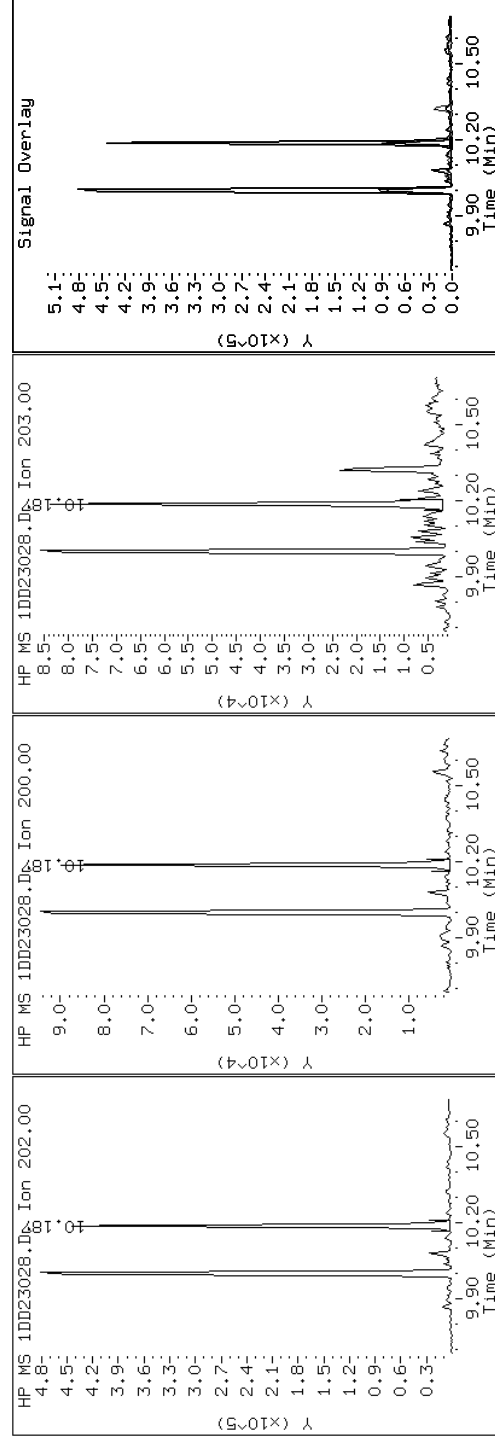
Client ID: CV0313A-CS-SP

Sample Info: 680-89459-A-27-A

15 Pyrene

Instrument: BSMDS.i

Operator: SCC

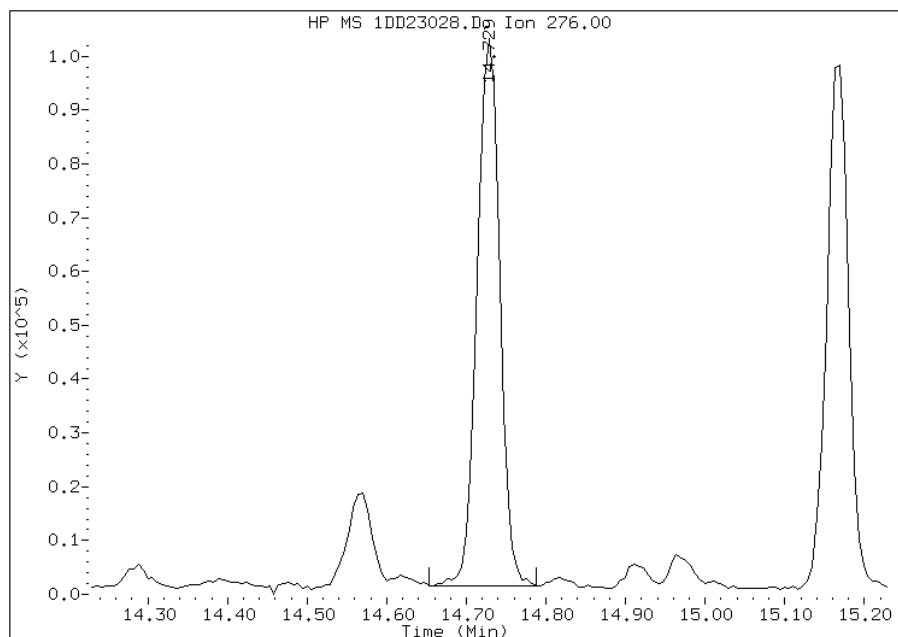


Manual Integration Report

Data File: 1DD23028.D
Inj. Date and Time: 23-APR-2013 23:08
Instrument ID: BSMSD.i
Client ID: CV0313A-CS-SP
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

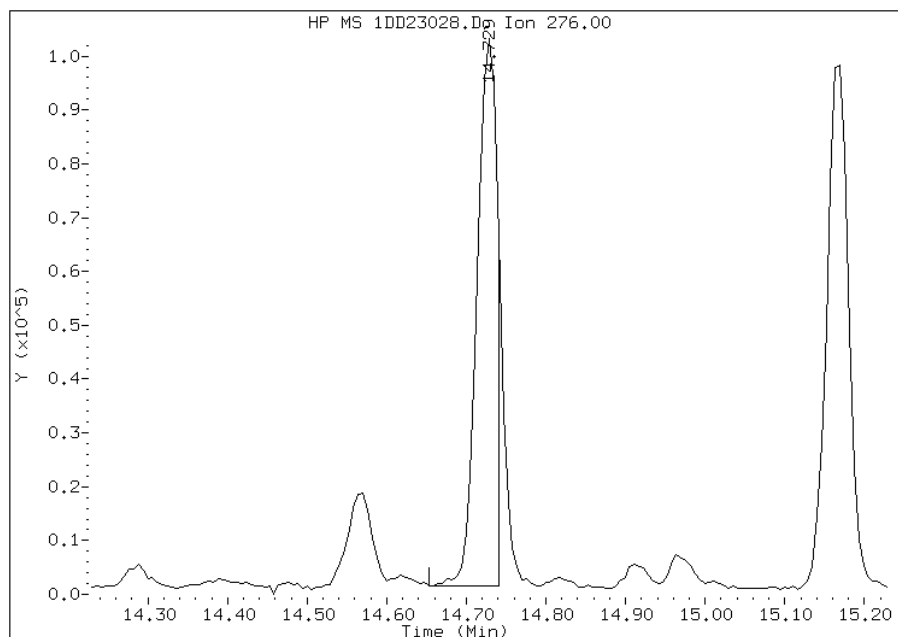
Processing Integration Results

RT: 14.73
Response: 201075
Amount: 4
Conc: 329



Manual Integration Results

RT: 14.73
Response: 179229
Amount: 3
Conc: 294



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 13:26
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-2</u>
SDG No.: <u>68089459-2</u>	
Client Sample ID: <u>CV0313B-CS-SP</u>	Lab Sample ID: <u>680-89459-28</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD23029.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 15:00</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 15:35</u>
Sample wt/vol: <u>14.94(g)</u>	Date Analyzed: <u>04/23/2013 23:30</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>4</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>23.3</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136756</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	32	J	210	26
120-12-7	Anthracene	54		44	22
56-55-3	Benzo[a]anthracene	260		42	20
50-32-8	Benzo[a]pyrene	280		54	27
205-99-2	Benzo[b]fluoranthene	600		64	32
191-24-2	Benzo[g,h,i]perylene	180		100	23
207-08-9	Benzo[k]fluoranthene	160		42	19
218-01-9	Chrysene	400		47	24
53-70-3	Dibenz(a,h)anthracene	66	J	100	21
206-44-0	Fluoranthene	420		100	21
86-73-7	Fluorene	21	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	160		100	37
90-12-0	1-Methylnaphthalene	130	J	210	23
91-57-6	2-Methylnaphthalene	250		210	37
91-20-3	Naphthalene	240		210	23
85-01-8	Phenanthrene	280		42	20
129-00-0	Pyrene	270		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	52		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23029.D
 Lab Smp Id: 680-89459-A-28-A Client Smp ID: CV0313B-CS-SP
 Inj Date : 23-APR-2013 23:30
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89459-A-28-A
 Misc Info : 680-89459-A-28-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
 Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 28
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	23.261	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.058	6.051	(1.000)		1891264	40.0000	
* 6 Acenaphthene-d10	164		7.738	7.732	(1.000)		1083281	40.0000	
* 9 Phenanthrene-d10	188		9.002	8.995	(1.000)		1742003	40.0000	
\$ 13 o-Terphenyl	230		9.301	9.306	(1.033)		34311	1.30722	460
* 17 Chrysene-d12	240		11.311	11.304	(1.000)		2090171	40.0000	
* 22 Perylene-d12	264		13.138	13.120	(1.000)		1980817	40.0000	
2 Naphthalene	128		6.076	6.075	(1.003)		32877	0.69939	240
3 2-Methylnaphthalene	142		6.786	6.780	(1.120)		21896	0.72156	250
4 1-Methylnaphthalene	142		6.875	6.874	(1.135)		10634	0.37108	130
5 Acenaphthylene	152		7.609	7.608	(0.983)		4222	0.09208	32
8 Fluorene	166		8.202	8.208	(1.060)		2015	0.06012	21
10 Phenanthrene	178		9.013	9.013	(1.001)		39147	0.81585	280
11 Anthracene	178		9.054	9.054	(1.006)		7404	0.15547	54
12 Carbazole	167		9.201	9.195	(1.022)		4442	0.10574	37

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
14 Fluoranthene	202	10.000	10.000	(1.111)	59295	1.20087	420
15 Pyrene	202	10.188	10.188	(0.901)	49132	0.78276	270
16 Benzo(a)anthracene	228	11.299	11.287	(0.999)	45132	0.74684	260
18 Chrysene	228	11.334	11.328	(1.002)	64266	1.13418	400
19 Benzo(b)fluoranthene	252	12.586	12.585	(0.958)	84653	1.71081	600
20 Benzo(k)fluoranthene	252	12.621	12.620	(0.961)	23255	0.44611	160
21 Benzo(a)pyrene	252	13.038	13.032	(0.992)	40276	0.81010	280
23 Indeno(1,2,3-cd)pyrene	276	14.712	14.706	(1.120)	24969	0.47100	160(M)
24 Dibenzo(a,h)anthracene	278	14.736	14.735	(1.122)	9462	0.18954	66(H)
25 Benzo(g,h,i)perylene	276	15.141	15.141	(1.152)	26804	0.52511	180

QC Flag Legend

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

Data File: 1DD23029.D

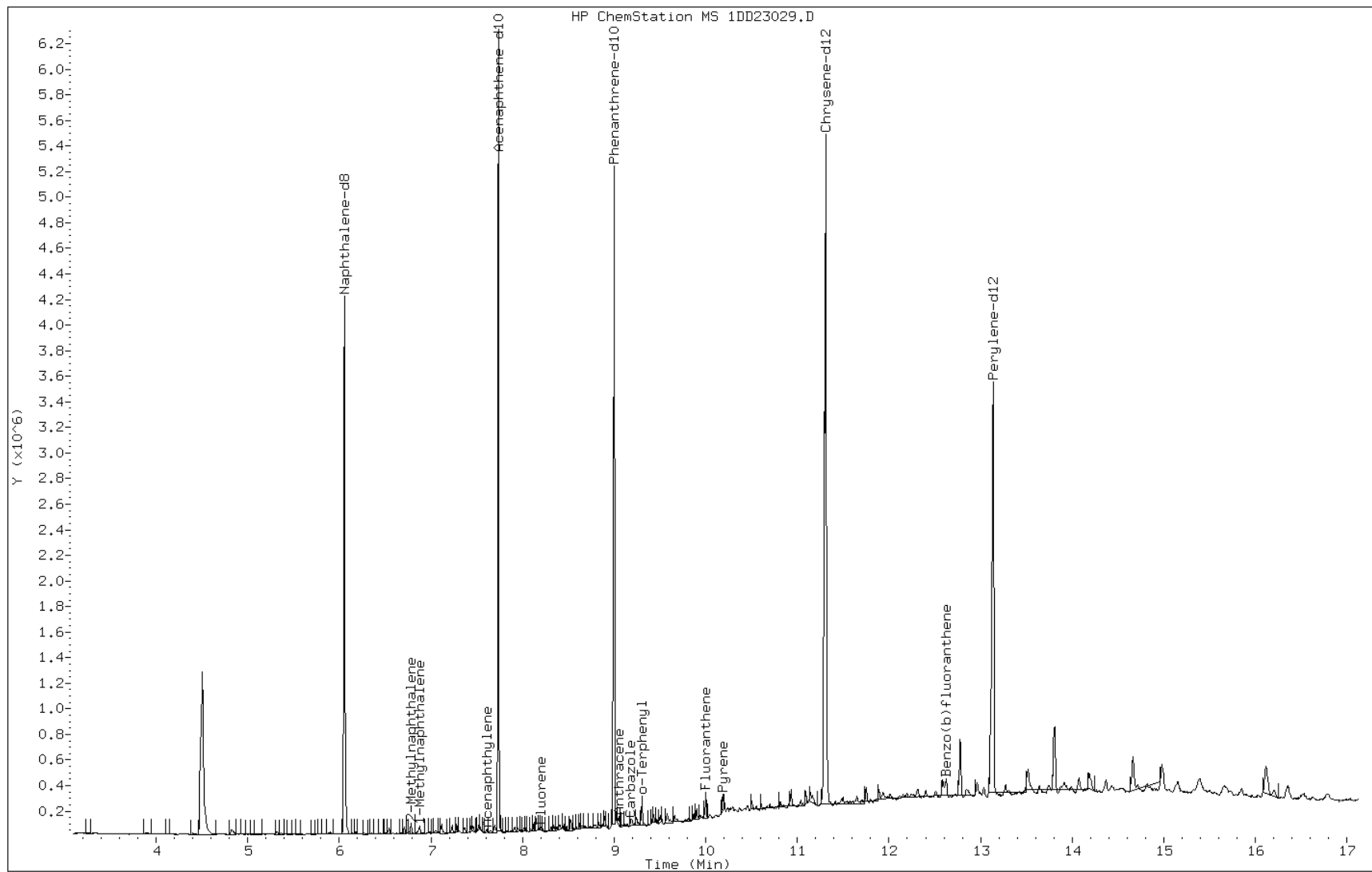
Date: 23-APR-2013 23:30

Client ID: CV0313B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-28-A

Operator: SCC



Data File: 1DD23029.D

Date: 23-APR-2013 23:30

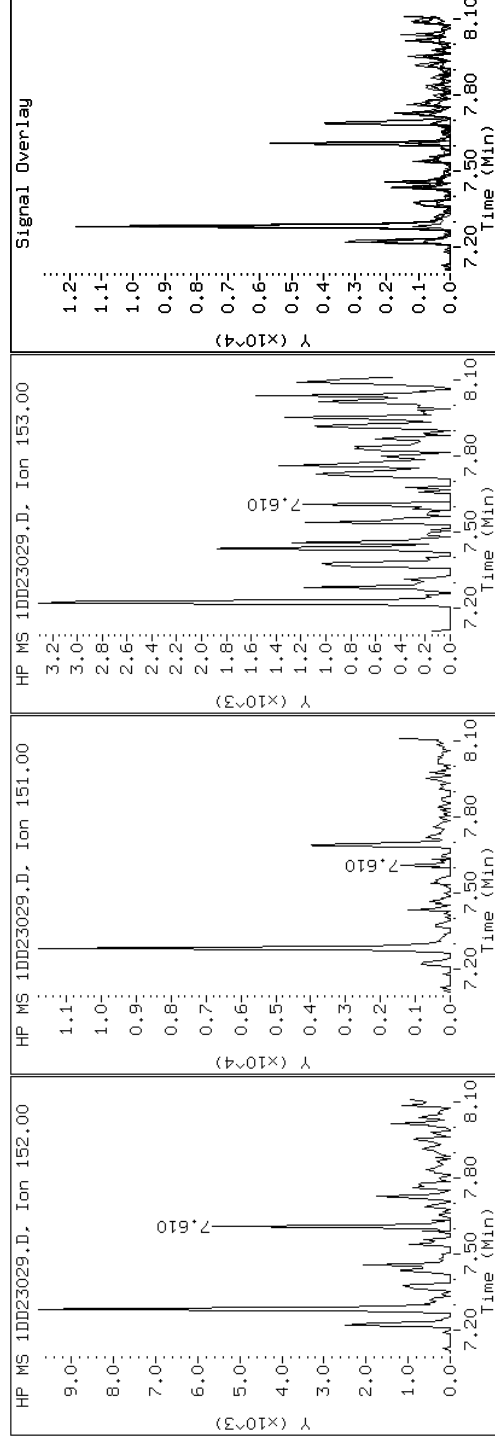
Client ID: CV0313B-CS-SP

Sample Info: 680-89459-A-28-A

Instrument: BSMDS.i

Operator: SCC

5 Acenaphthylene



Data File: 1DD23029.D

Date: 23-APR-2013 23:30

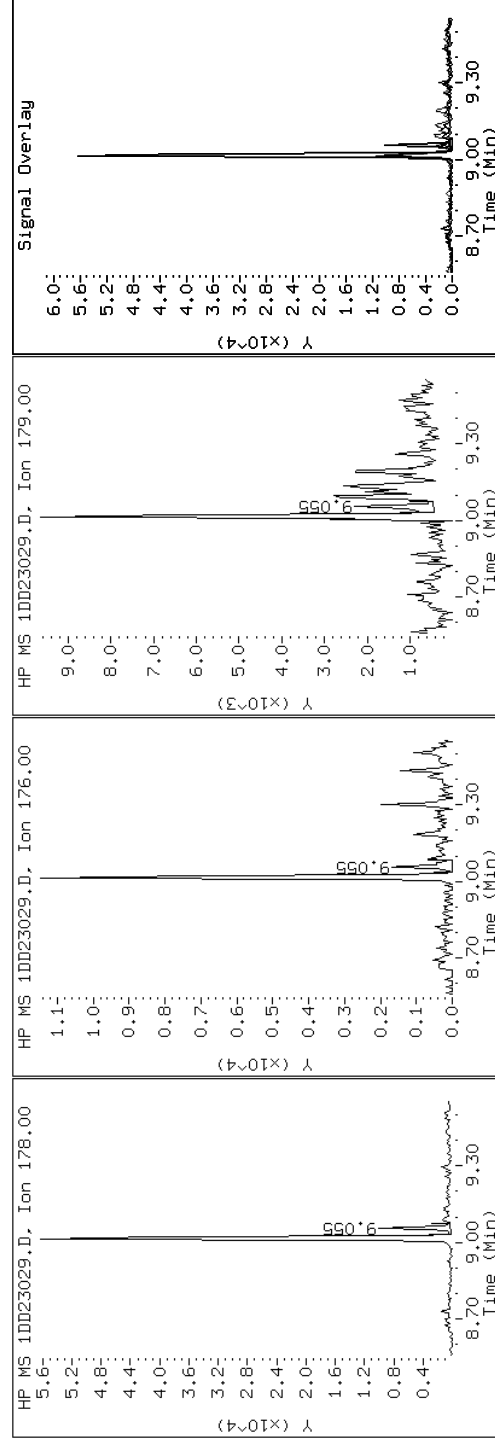
Client ID: CV0313B-CS-SP

Sample Info: 680-89459-A-28-A

11 Anthracene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23029.D

Date: 23-APR-2013 23:30

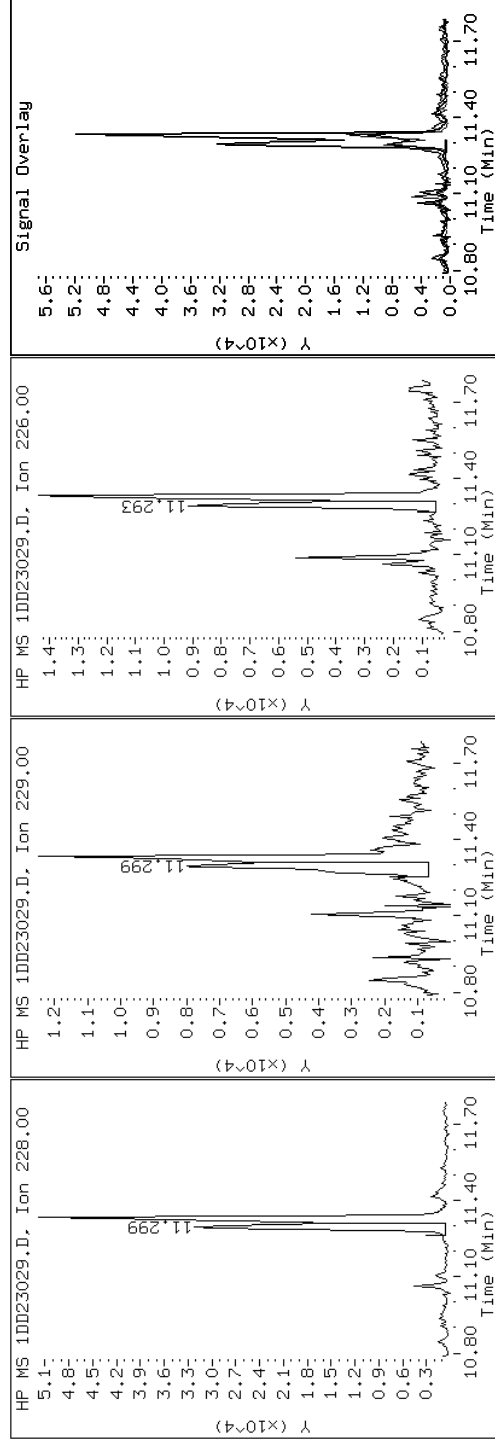
Client ID: CV0313B-CS-SP

Sample Info: 680-89459-A-28-A

Instrument: BSMDS.i

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD23029.D

Date: 23-APR-2013 23:30

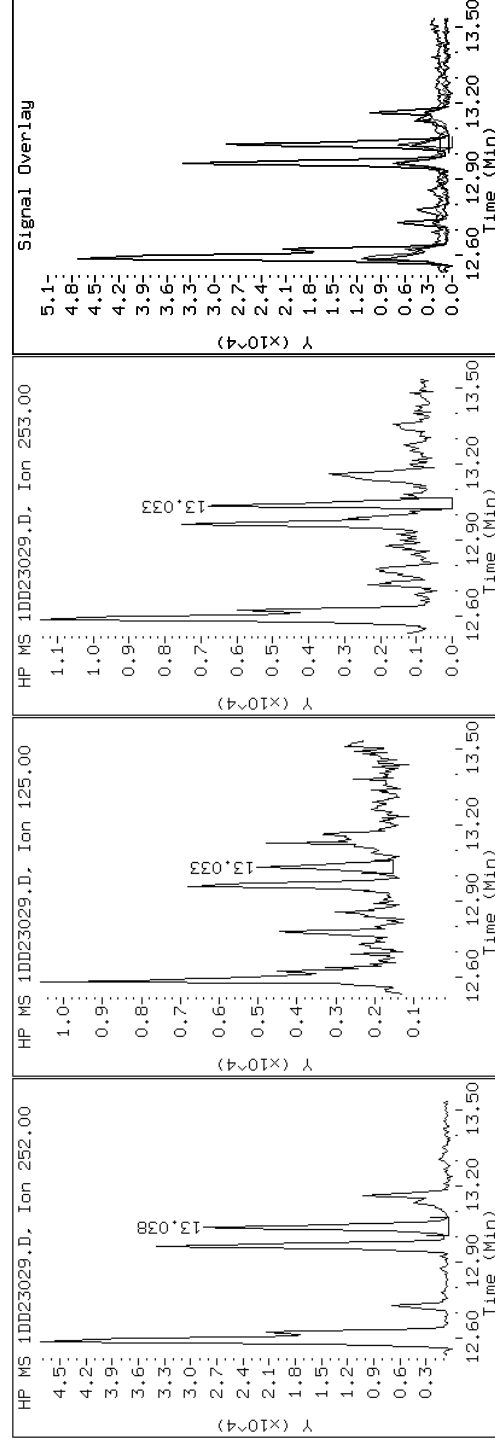
Client ID: CV0313B-CS-SP

Sample Info: 680-89459-A-28-A

Instrument: BSMDS.i

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD23029.D

Date: 23-APR-2013 23:30

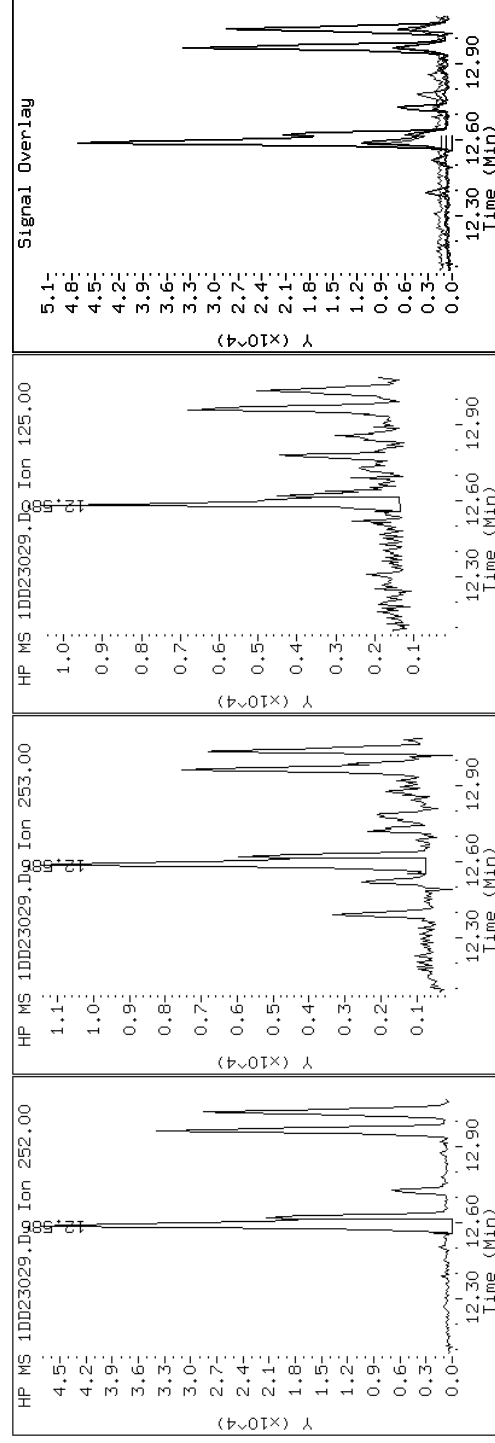
Client ID: CV0313B-CS-SP

Sample Info: 680-89459-A-28-A

Instrument: BSMDS.i

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD23029.D

Date: 23-APR-2013 23:30

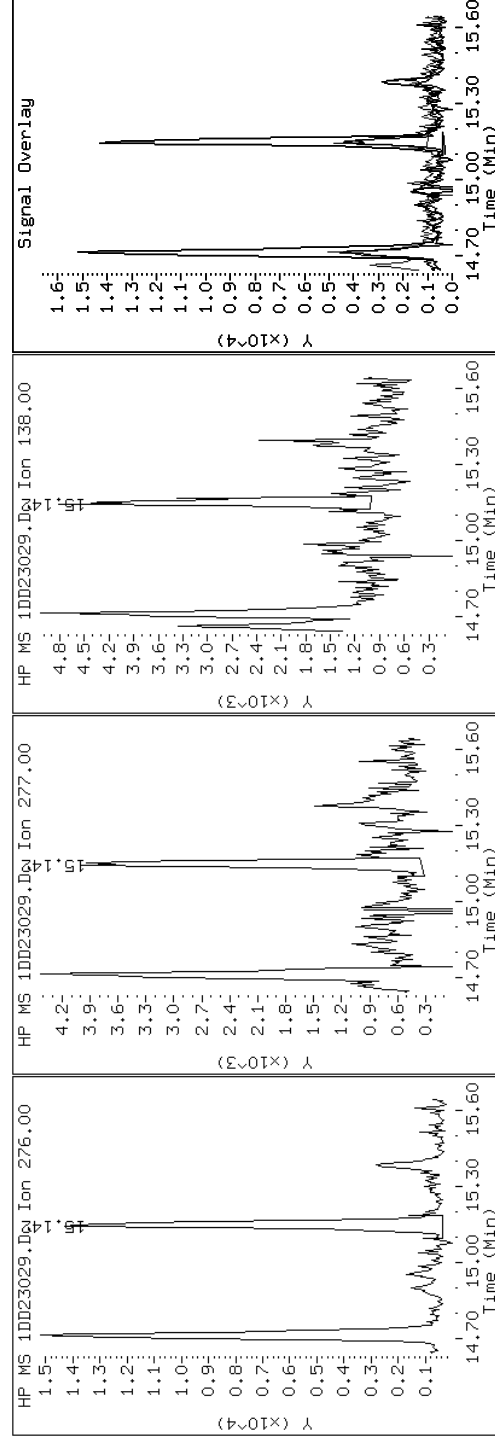
Client ID: CV0313B-CS-SP

Sample Info: 680-89459-A-28-A

Instrument: BSMDS.i

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD23029.D

Date: 23-APR-2013 23:30

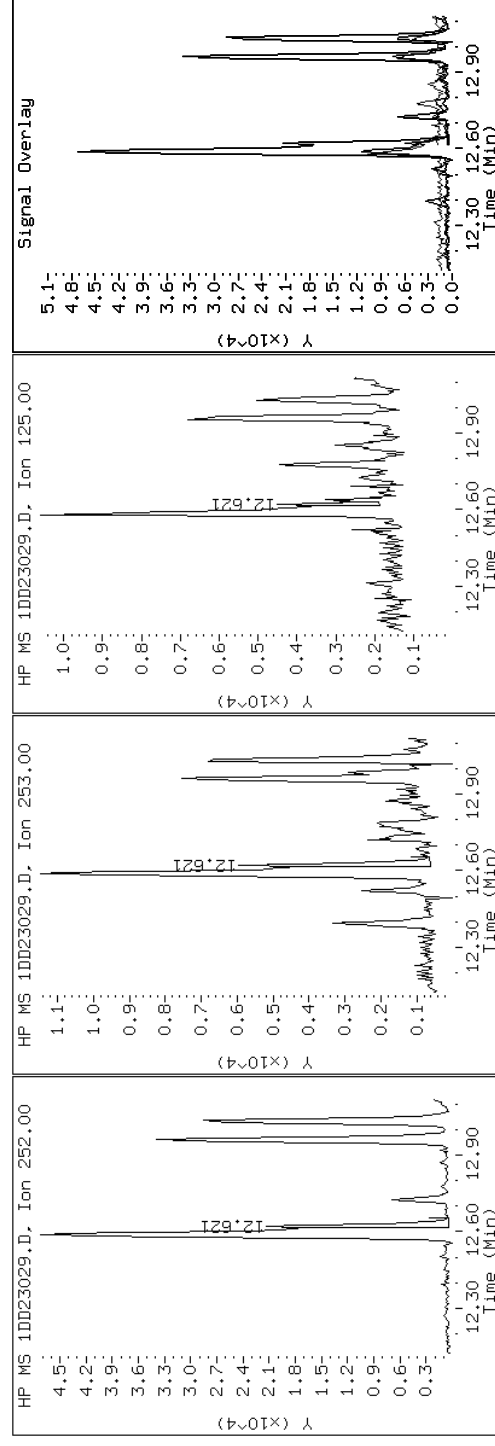
Client ID: CV0313B-CS-SP

Sample Info: 680-89459-A-28-A

Instrument: BSMDS.i

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD23029.D

Date: 23-APR-2013 23:30

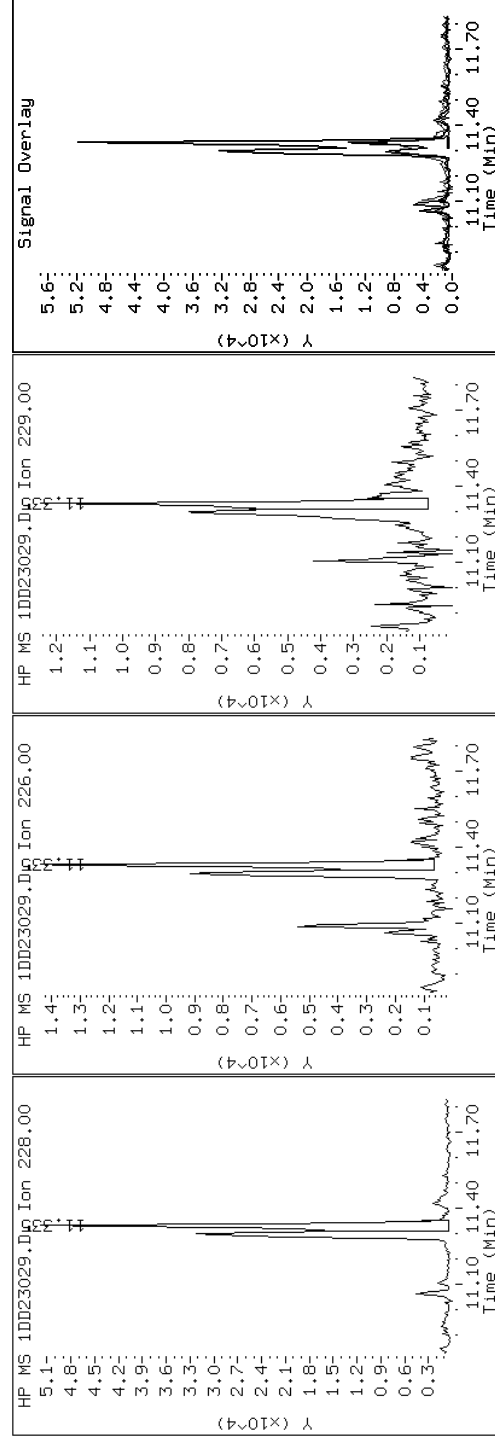
Client ID: CV0313B-CS-SP

Sample Info: 680-89459-A-28-A

Instrument: BSMDS.i

Operator: SCC

18 Chrysene



Data File: 1DD23029.D

Date: 23-APR-2013 23:30

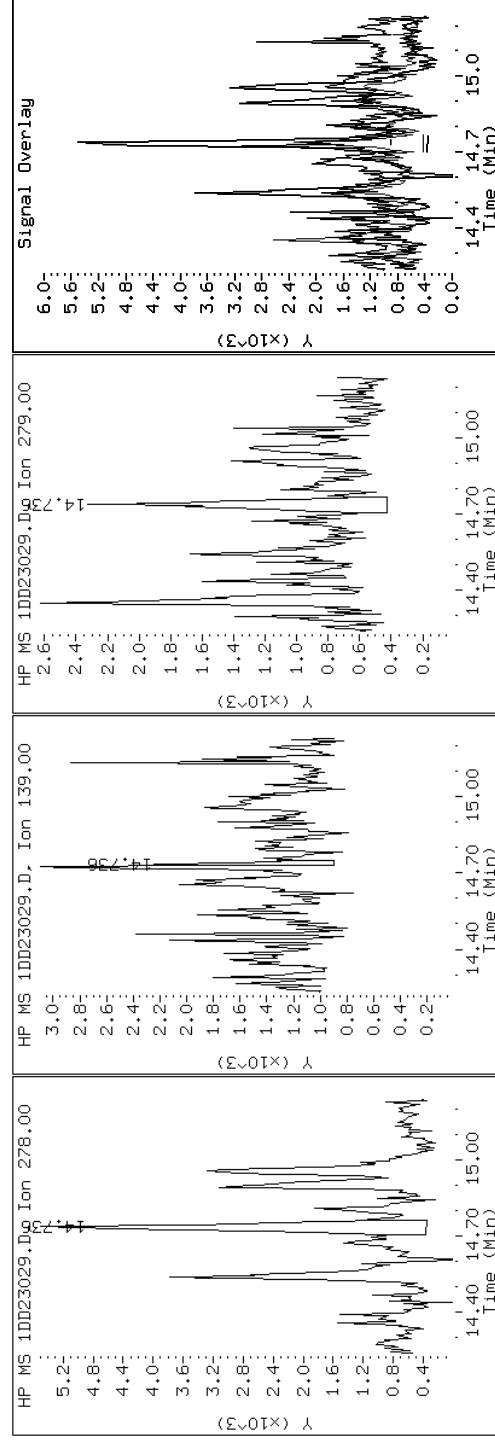
Client ID: CV0313B-CS-SP

Sample Info: 680-89459-A-28-A

Instrument: BSMSD.i

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD23029.D

Date: 23-APR-2013 23:30

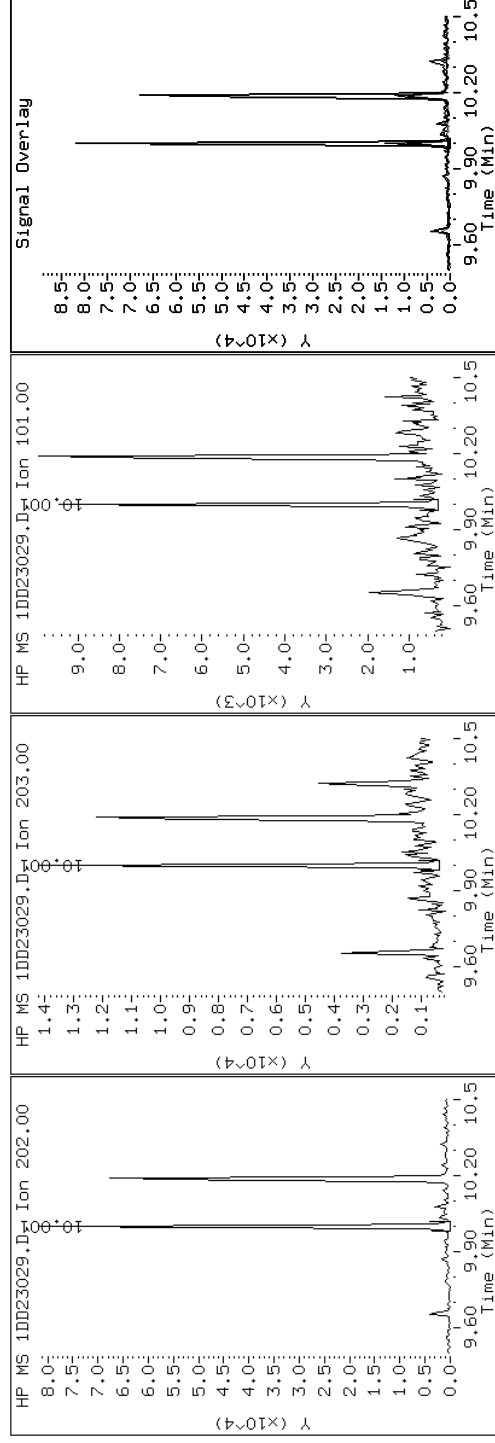
Client ID: CV0313B-CS-SP

Sample Info: 680-89459-A-28-A

Instrument: BSMDS.i

Operator: SCC

14 Fluoranthene



Data File: 1DD23029.D

Date: 23-APR-2013 23:30

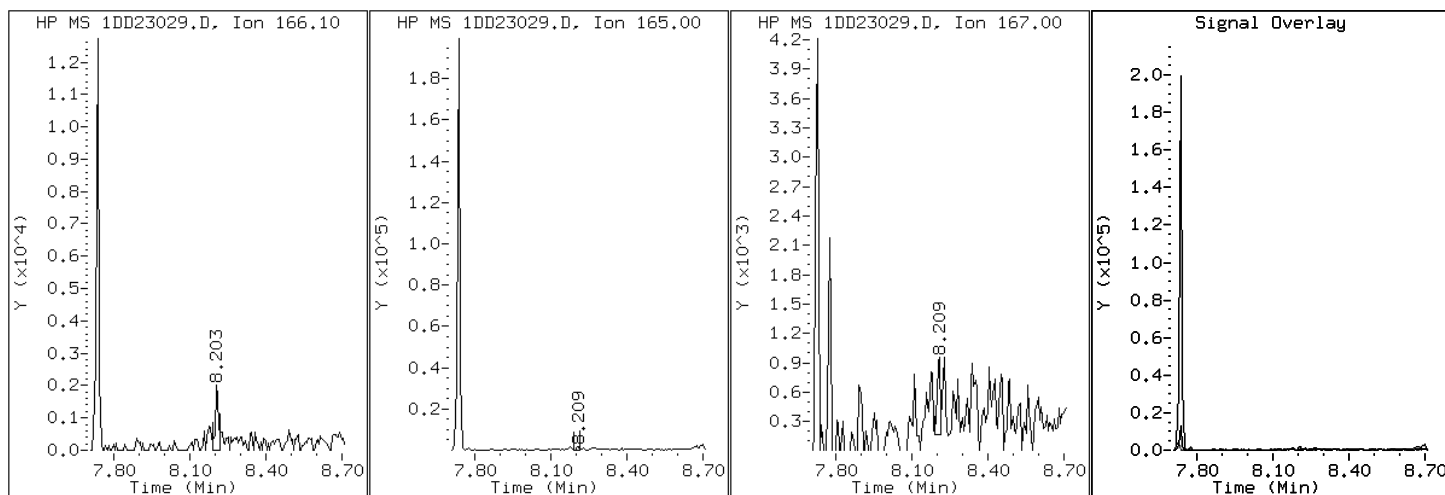
Client ID: CV0313B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-28-A

Operator: SCC

8 Fluorene



Data File: 1DD23029.D

Date: 23-APR-2013 23:30

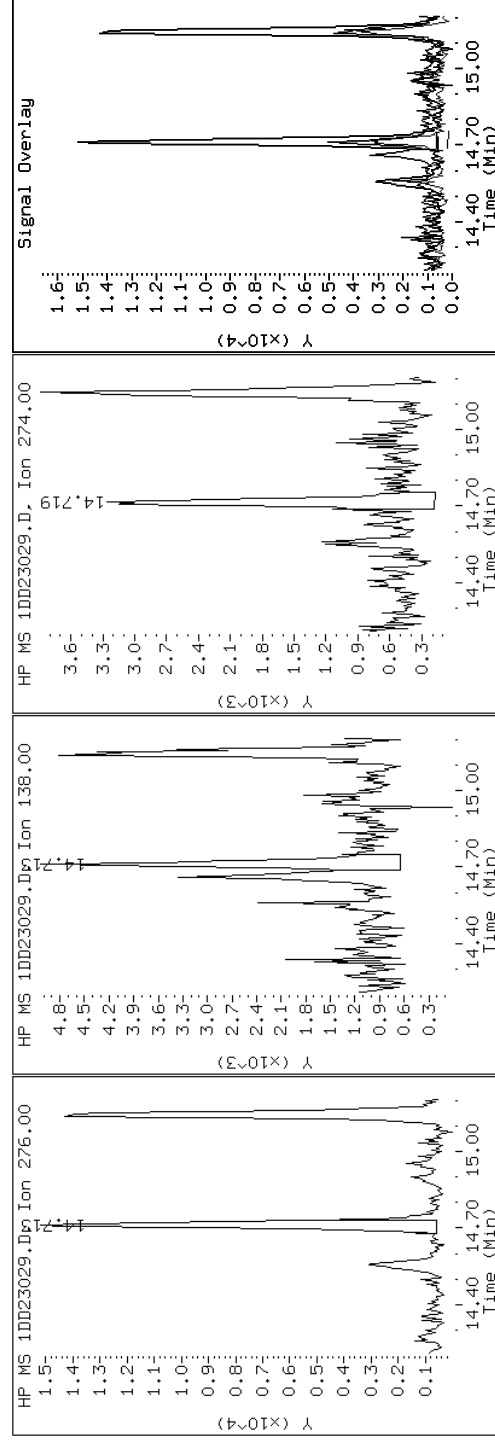
Client ID: CV0313B-CS-SP

Sample Info: 680-89459-A-28-A

Instrument: BSMDS.i

Operator: SCC

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



Data File: 1DD23029.D

Date: 23-APR-2013 23:30

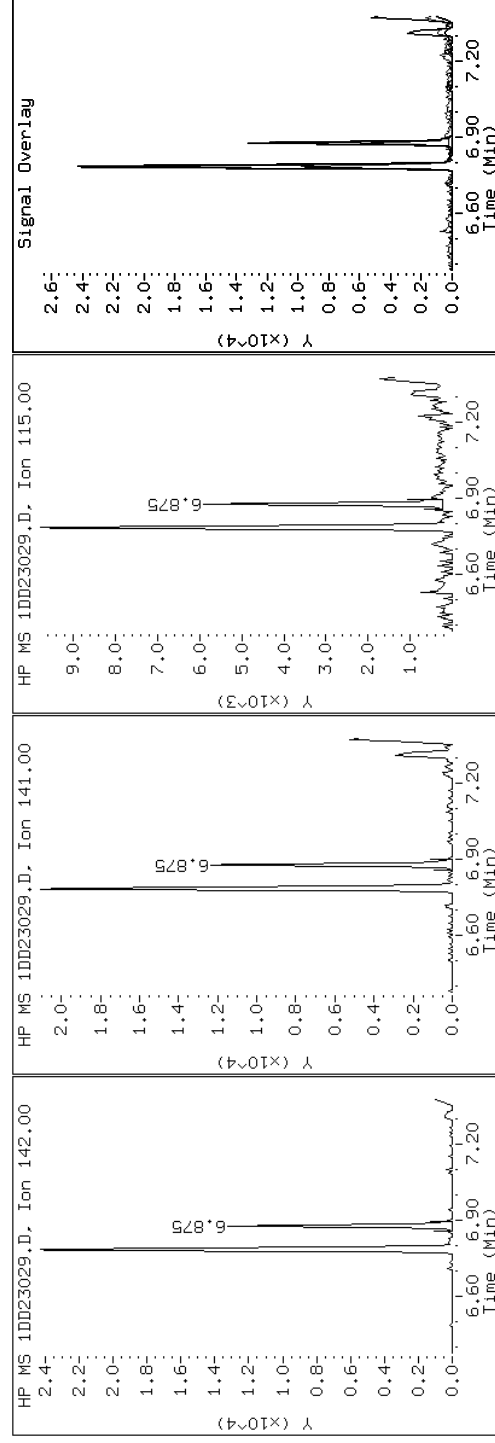
Client ID: CV0313B-CS-SP

Sample Info: 680-89459-A-28-A

Instrument: BSMDS.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD23029.D

Date: 23-APR-2013 23:30

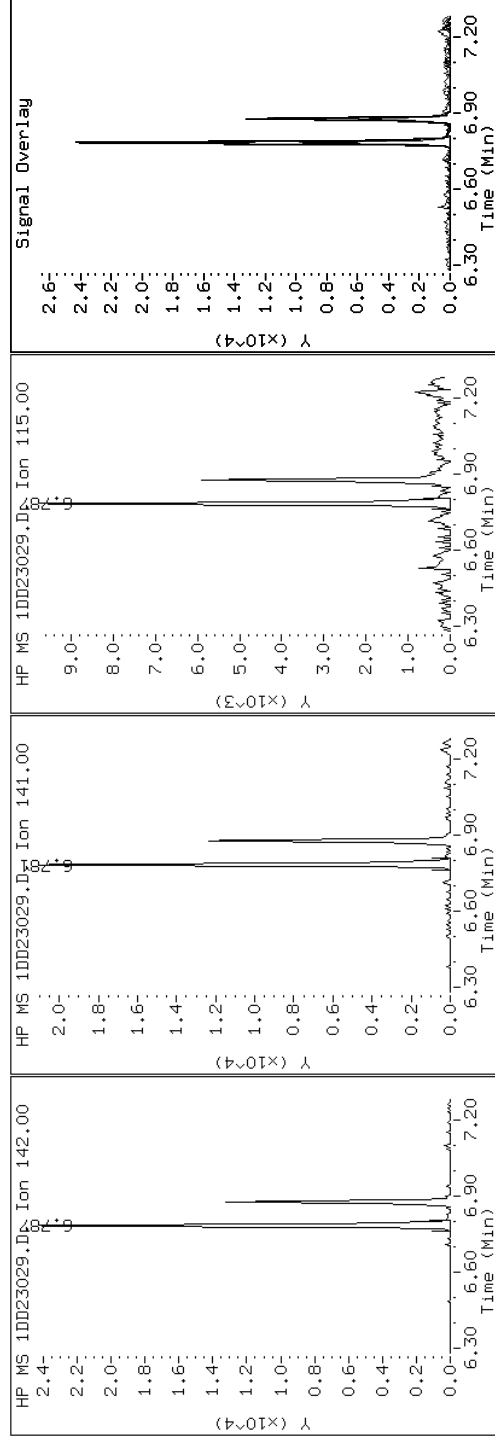
Client ID: CV0313B-CS-SP

Sample Info: 680-89459-A-28-A

Instrument: BSMDS.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD23029.D

Date: 23-APR-2013 23:30

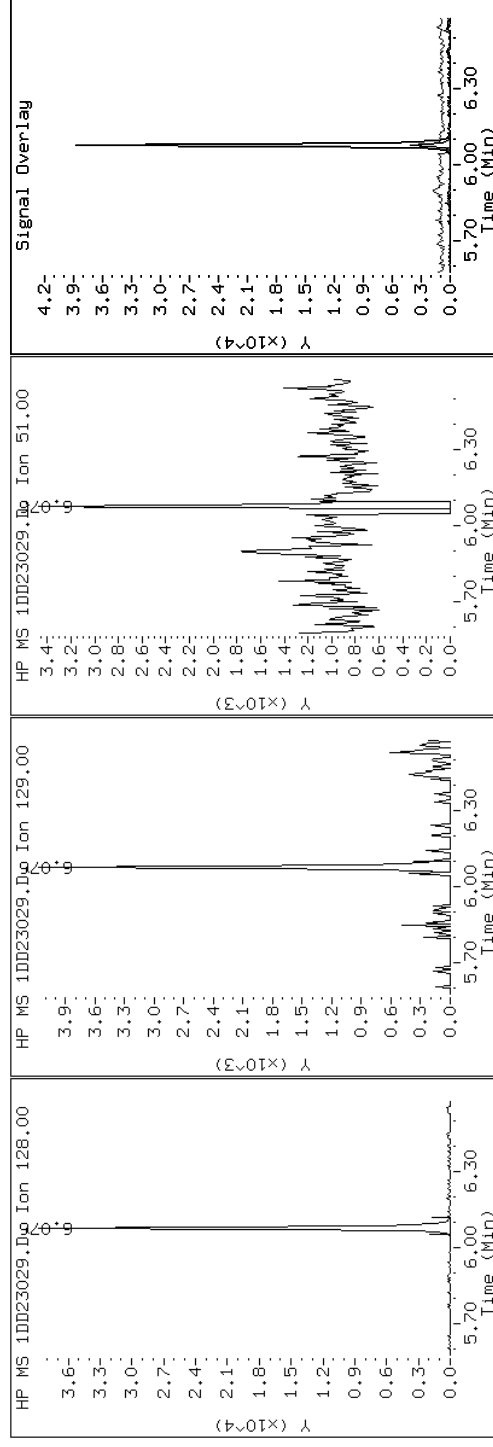
Client ID: CV0313B-CS-SP

Sample Info: 680-89459-A-28-A

2 Naphthalene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23029.D

Date: 23-APR-2013 23:30

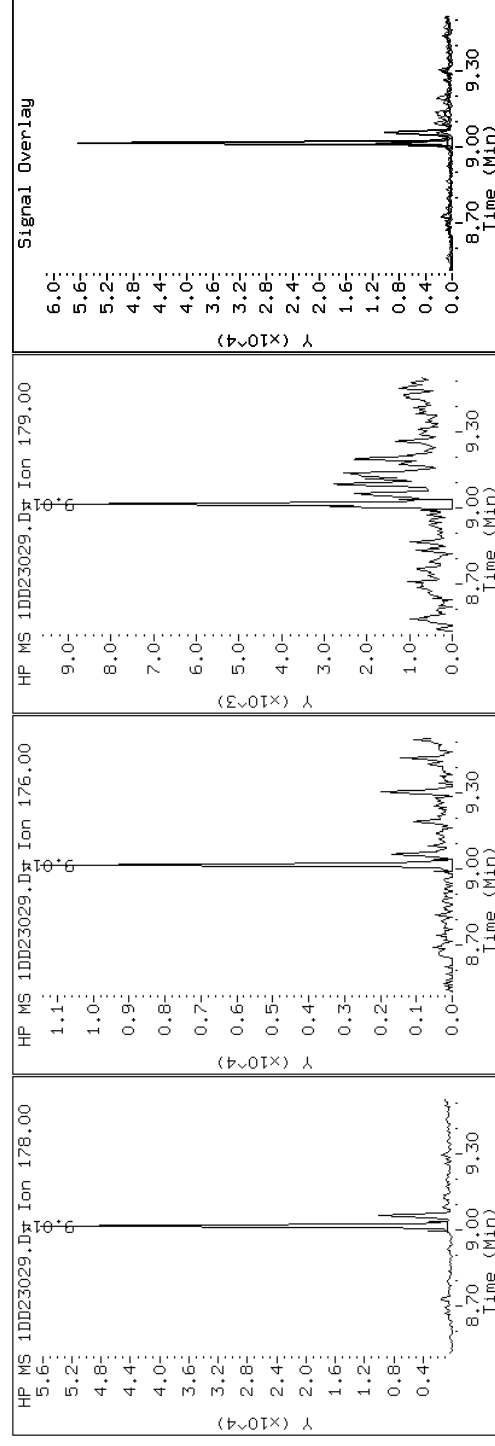
Client ID: CV0313B-CS-SP

Sample Info: 680-89459-A-28-A

Instrument: BSMDS.i

Operator: SCC

10 Phenanthrene



Data File: 1DD23029.D

Date: 23-APR-2013 23:30

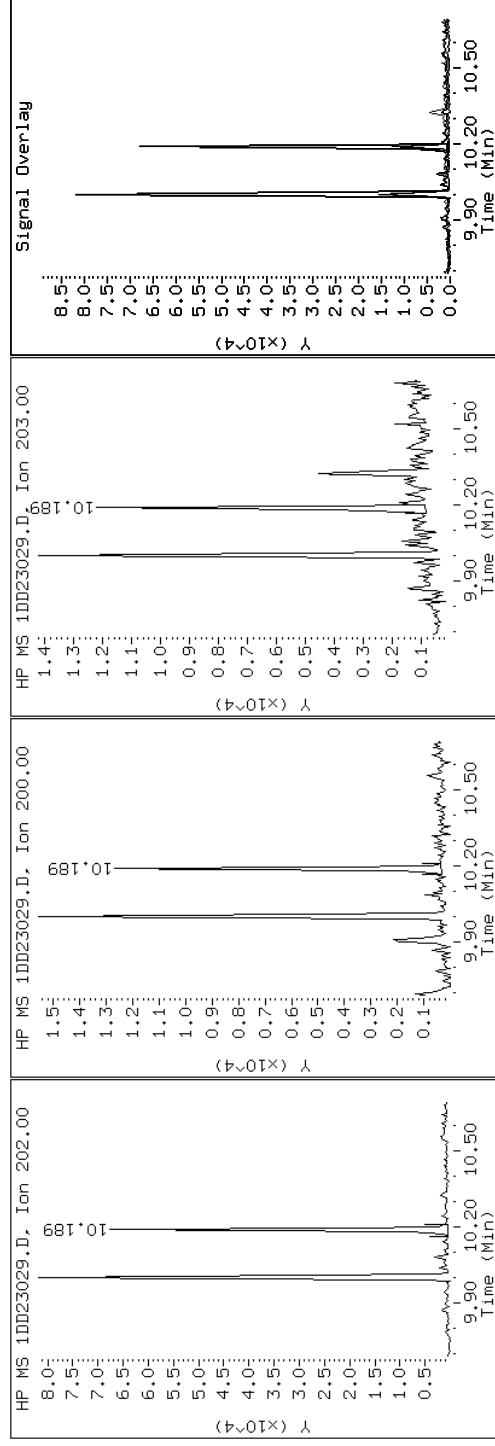
Client ID: CV0313B-CS-SP

Sample Info: 680-89459-A-28-A

15 Pyrene

Instrument: BSMDS.i

Operator: SCC

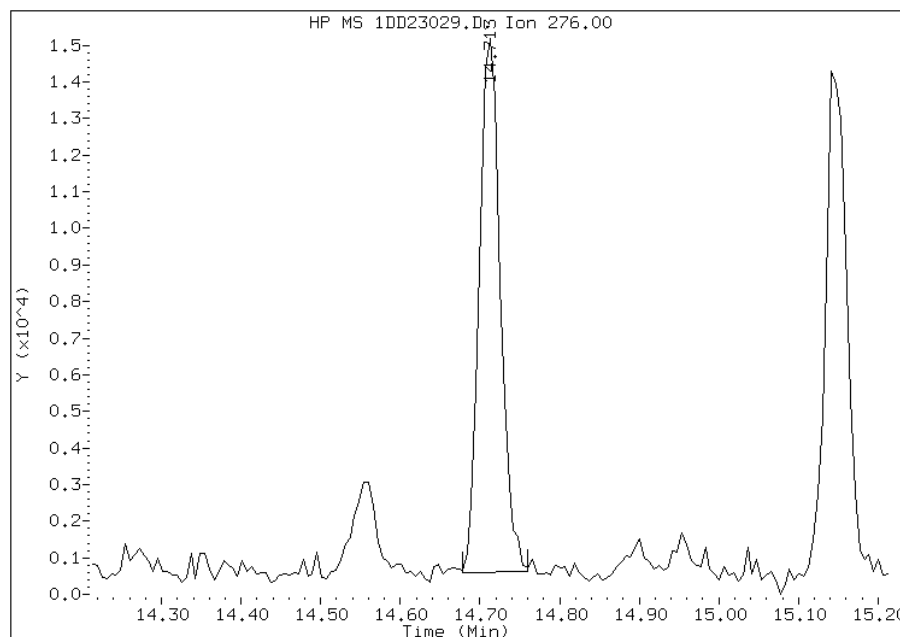


Manual Integration Report

Data File: 1DD23029.D
Inj. Date and Time: 23-APR-2013 23:30
Instrument ID: BSMSD.i
Client ID: CV0313B-CS-SP
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

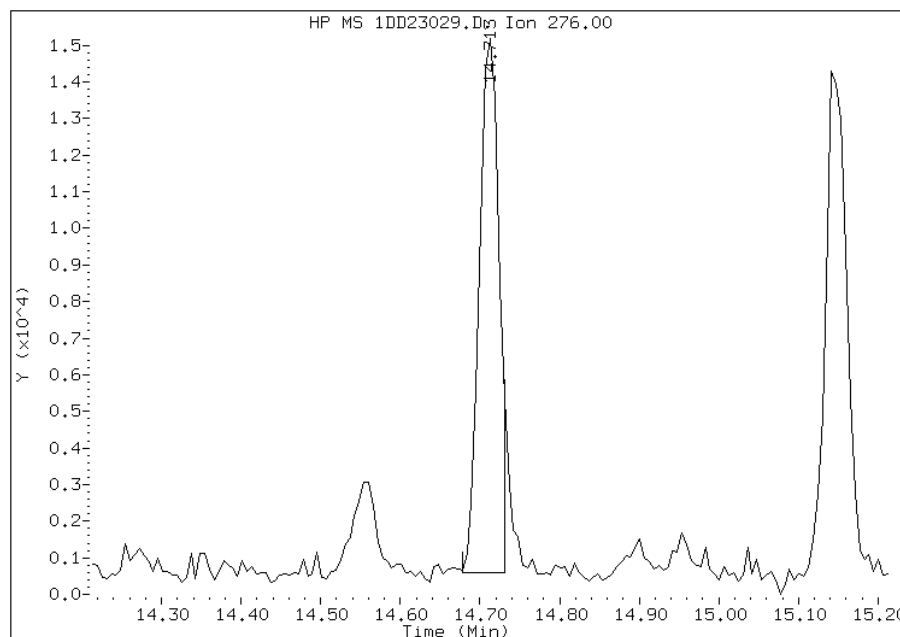
Processing Integration Results

RT: 14.71
Response: 26649
Amount: 1
Conc: 175



Manual Integration Results

RT: 14.71
Response: 24969
Amount: 0
Conc: 164



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 13:28
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-2</u>
SDG No.: <u>68089459-2</u>	
Client Sample ID: <u>CV0423A-CS-SP</u>	Lab Sample ID: <u>680-89459-29</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD23030.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 15:35</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 15:35</u>
Sample wt/vol: <u>14.91(g)</u>	Date Analyzed: <u>04/23/2013 23:53</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>21.2</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136756</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	18	J	51	6.4
120-12-7	Anthracene	33		11	5.4
56-55-3	Benzo[a]anthracene	120		10	5.0
50-32-8	Benzo[a]pyrene	120		13	6.6
205-99-2	Benzo[b]fluoranthene	210		16	7.8
191-24-2	Benzo[g,h,i]perylene	61		26	5.6
207-08-9	Benzo[k]fluoranthene	72		10	4.6
218-01-9	Chrysene	170		11	5.7
53-70-3	Dibenz(a,h)anthracene	25	J	26	5.2
206-44-0	Fluoranthene	190		26	5.1
86-73-7	Fluorene	8.3	J	26	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	55		26	9.1
90-12-0	1-Methylnaphthalene	69		51	5.6
91-57-6	2-Methylnaphthalene	85		51	9.1
91-20-3	Naphthalene	68		51	5.6
85-01-8	Phenanthrene	150		10	5.0
129-00-0	Pyrene	140		26	4.7

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23030.D
Lab Smp Id: 680-89459-A-29-A Client Smp ID: CV0423A-CS-SP
Inj Date : 23-APR-2013 23:53
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89459-A-29-A
Misc Info : 680-89459-A-29-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 29
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	14.910	Weight Extracted
M	21.199	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.054	6.051	(1.000)		1876771	40.0000	
* 6 Acenaphthene-d10	164		7.734	7.732	(1.000)		1062877	40.0000	
* 9 Phenanthrene-d10	188		8.998	8.995	(1.000)		1691423	40.0000	
\$ 13 o-Terphenyl	230		9.303	9.306	(1.034)		106714	4.18728	360
* 17 Chrysene-d12	240		11.313	11.304	(1.000)		1946505	40.0000	
* 22 Perylene-d12	264		13.140	13.120	(1.000)		1850176	40.0000	
2 Naphthalene	128		6.078	6.075	(1.004)		37205	0.79757	68
3 2-Methylnaphthalene	142		6.783	6.780	(1.120)		30212	1.00329	85
4 1-Methylnaphthalene	142		6.877	6.874	(1.136)		22925	0.80617	69
5 Acenaphthylene	152		7.611	7.608	(0.984)		9326	0.20731	18
8 Fluorene	166		8.204	8.208	(1.061)		3190	0.09701	8.2(Q)
10 Phenanthrene	178		9.015	9.013	(1.002)		79962	1.71630	150
11 Anthracene	178		9.056	9.054	(1.007)		18088	0.39116	33
12 Carbazole	167		9.197	9.195	(1.022)		8703	0.21337	18

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
14 Fluoranthene	202	10.002	10.000	(1.112)	109641	2.28690	190
15 Pyrene	202	10.190	10.188	(0.901)	92822	1.58797	140
16 Benzo(a)anthracene	228	11.295	11.287	(0.998)	78969	1.40321	120
18 Chrysene	228	11.336	11.328	(1.002)	105223	1.99406	170
19 Benzo(b)fluoranthene	252	12.593	12.585	(0.958)	115005	2.48832	210
20 Benzo(k)fluoranthene	252	12.623	12.620	(0.961)	41322	0.84866	72
21 Benzo(a)pyrene	252	13.040	13.032	(0.992)	64358	1.38589	120
23 Indeno(1,2,3-cd)pyrene	276	14.714	14.706	(1.120)	32015	0.64655	55(M)
24 Dibenzo(a,h)anthracene	278	14.732	14.735	(1.121)	13730	0.29445	25
25 Benzo(g,h,i)perylene	276	15.155	15.141	(1.153)	34319	0.71981	61

QC Flag Legend

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

Data File: 1DD23030.D

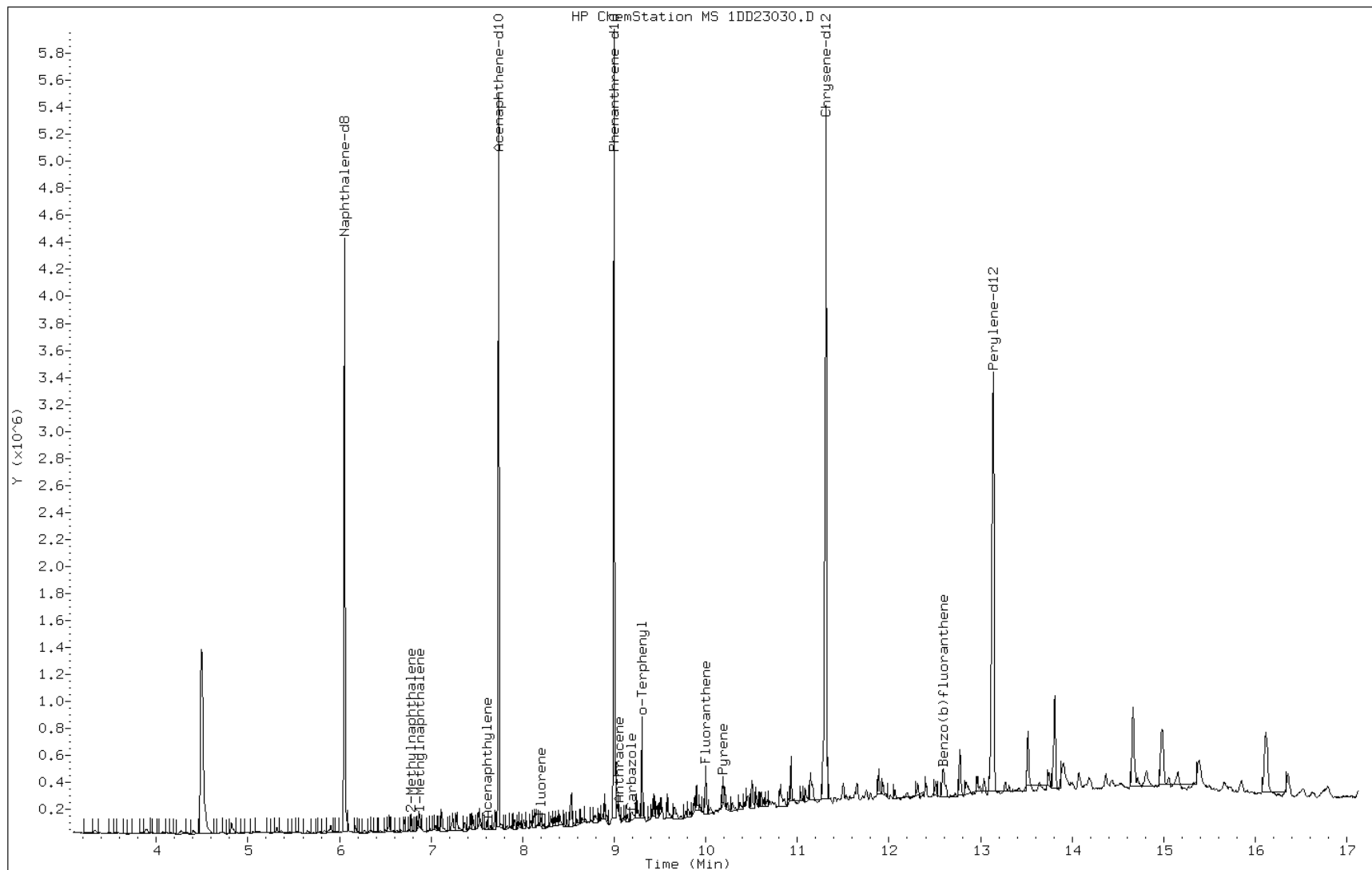
Date: 23-APR-2013 23:53

Client ID: CV0423A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-29-A

Operator: SCC



Data File: 1DD23030.D

Date: 23-APR-2013 23:53

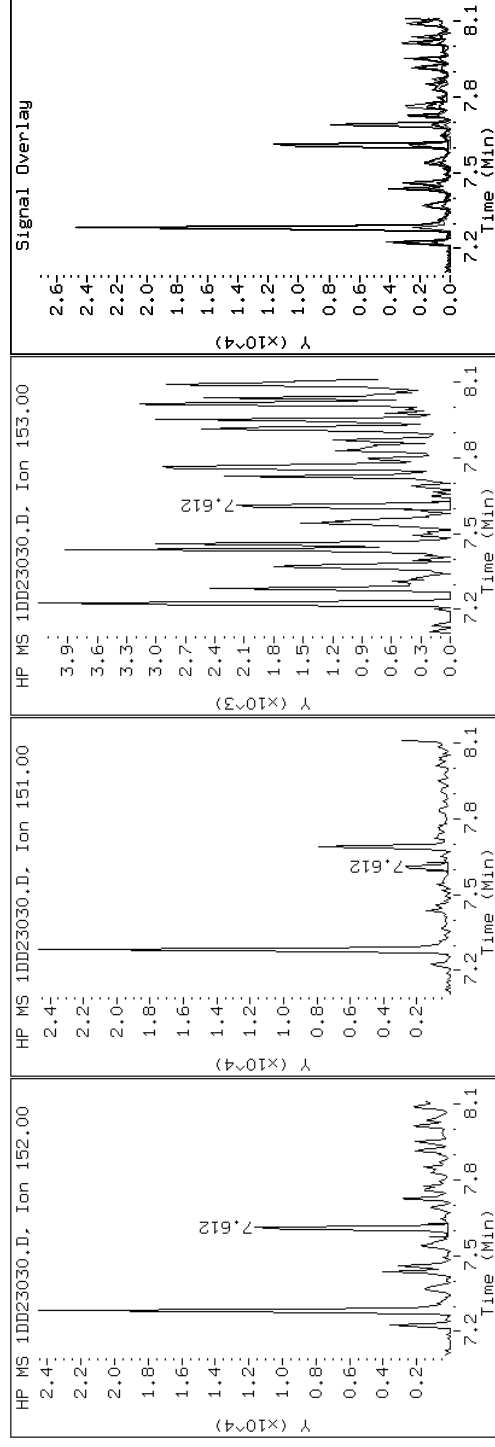
Client ID: CV0423A-CS-SP

Sample Info: 680-89459-A-29-A

Instrument: BSMDS.i

Operator: SCC

5 Acenaphthylene



Data File: 1DD23030.D

Date: 23-APR-2013 23:53

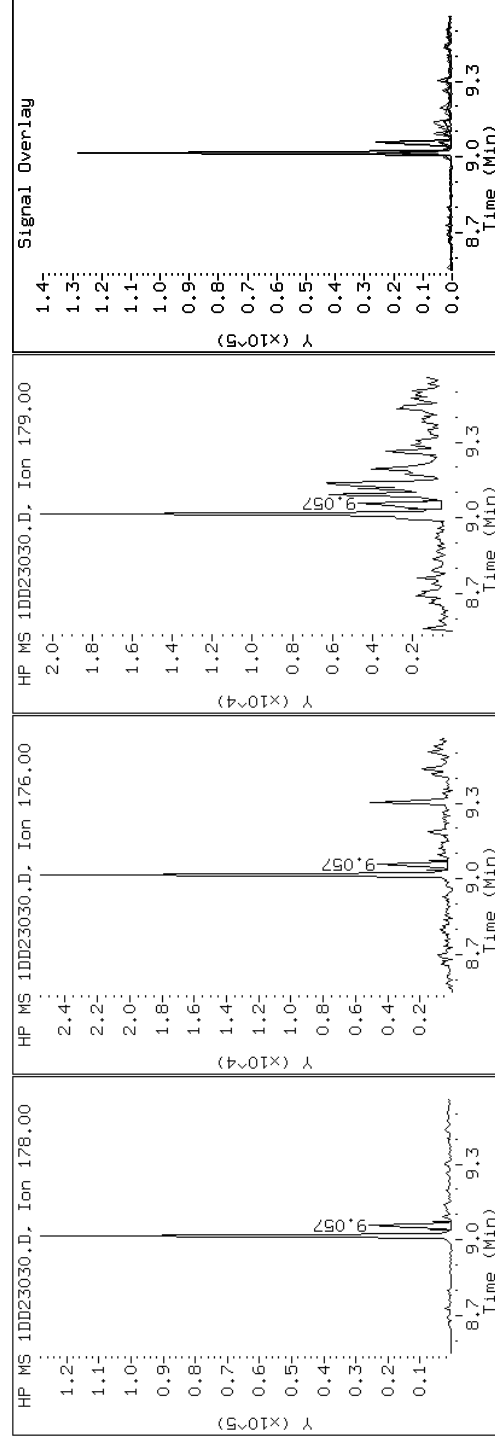
Client ID: CV0423A-CS-SP

Sample Info: 680-89459-A-29-A

Instrument: BSMSD.i

Operator: SCC

11 Anthracene



Data File: 1DD23030.D

Date: 23-APR-2013 23:53

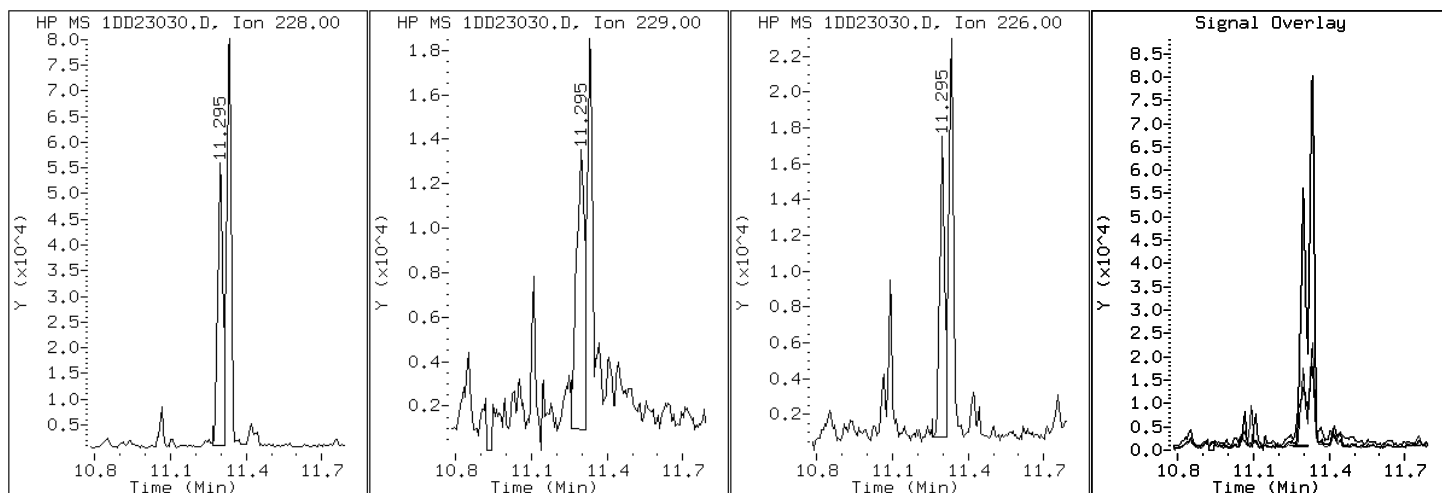
Client ID: CV0423A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-29-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD23030.D

Date: 23-APR-2013 23:53

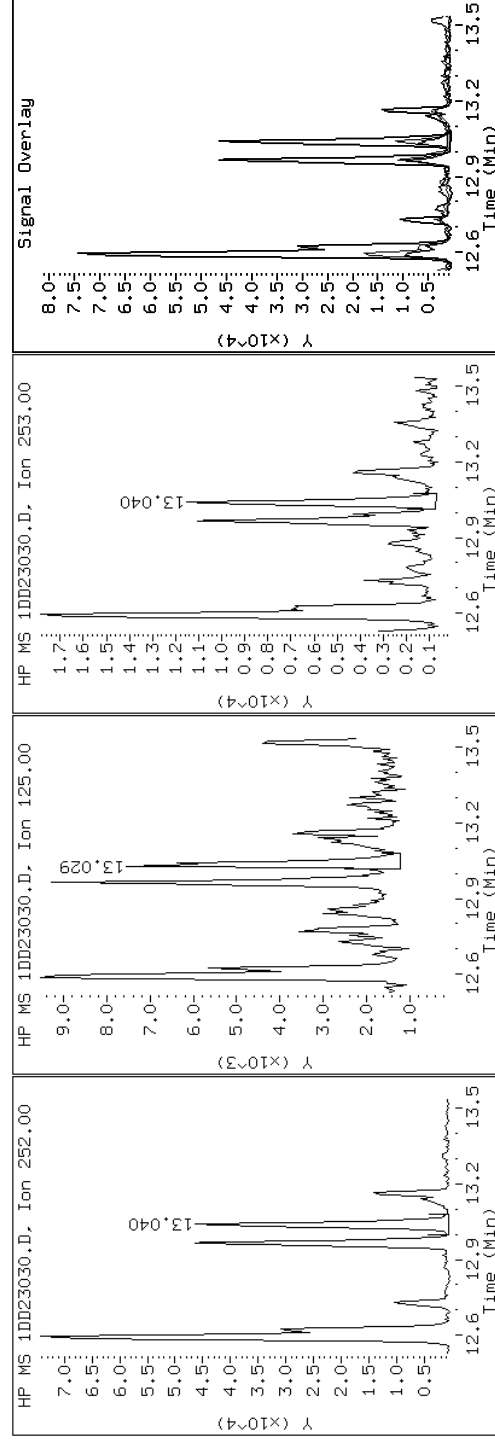
Client ID: CV0423A-CS-SP

Sample Info: 680-89459-A-29-A

Instrument: BSMSD.i

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD23030.D

Date: 23-APR-2013 23:53

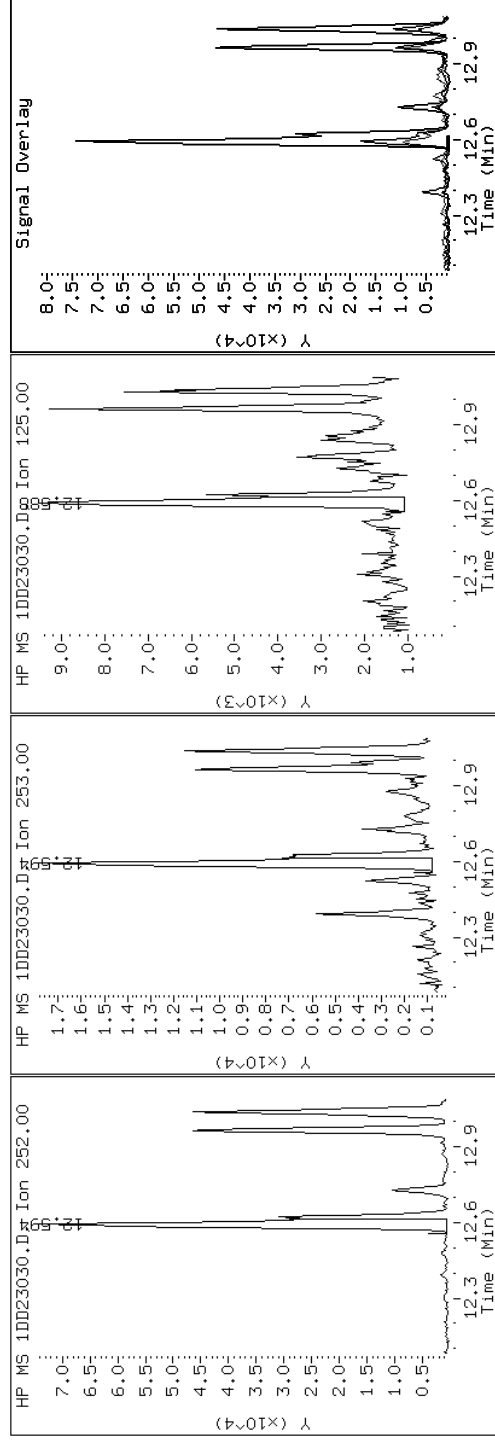
Client ID: CV0423A-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89459-A-29-A

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD23030.D

Date: 23-APR-2013 23:53

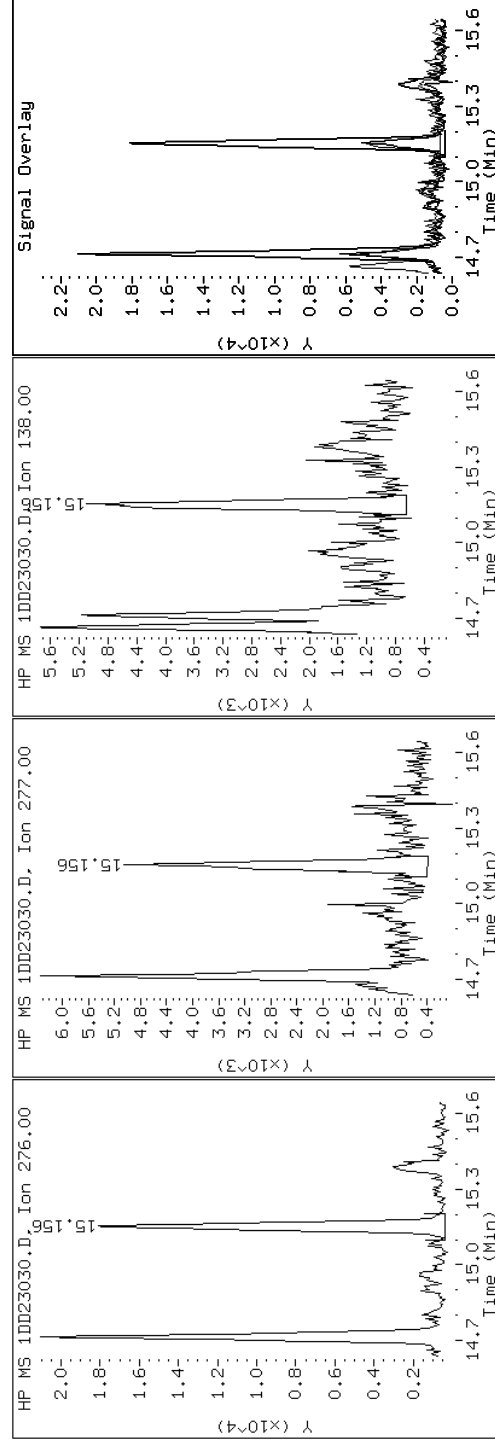
Client ID: CV0423A-CS-SP

Sample Info: 680-89459-A-29-A

Instrument: BSMDS.i

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD23030.D

Date: 23-APR-2013 23:53

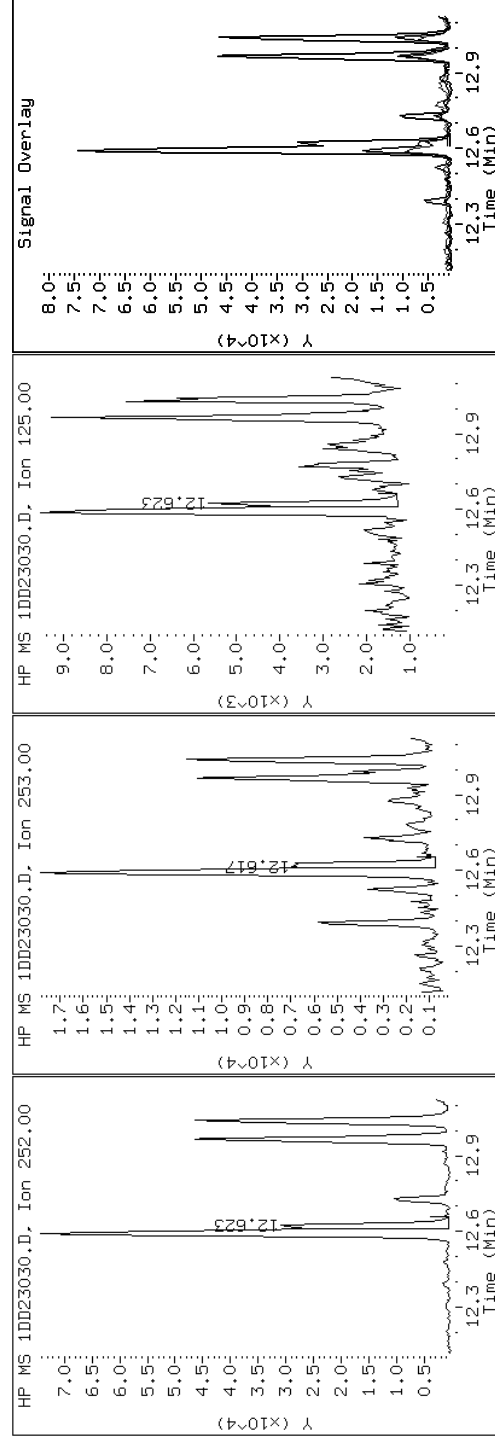
Client ID: CV0423A-CS-SP

Sample Info: 680-89459-A-29-A

Instrument: BSMDS.i

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD23030.D

Date: 23-APR-2013 23:53

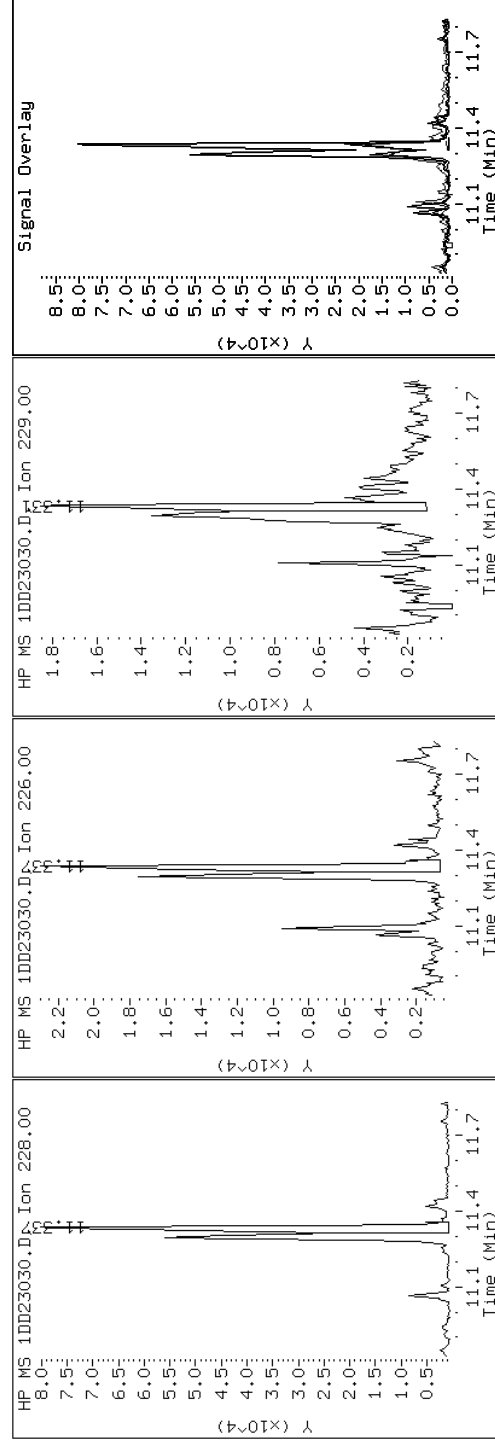
Client ID: CV0423A-CS-SP

Sample Info: 680-89459-A-29-A

18 Chrysene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23030.D

Date: 23-APR-2013 23:53

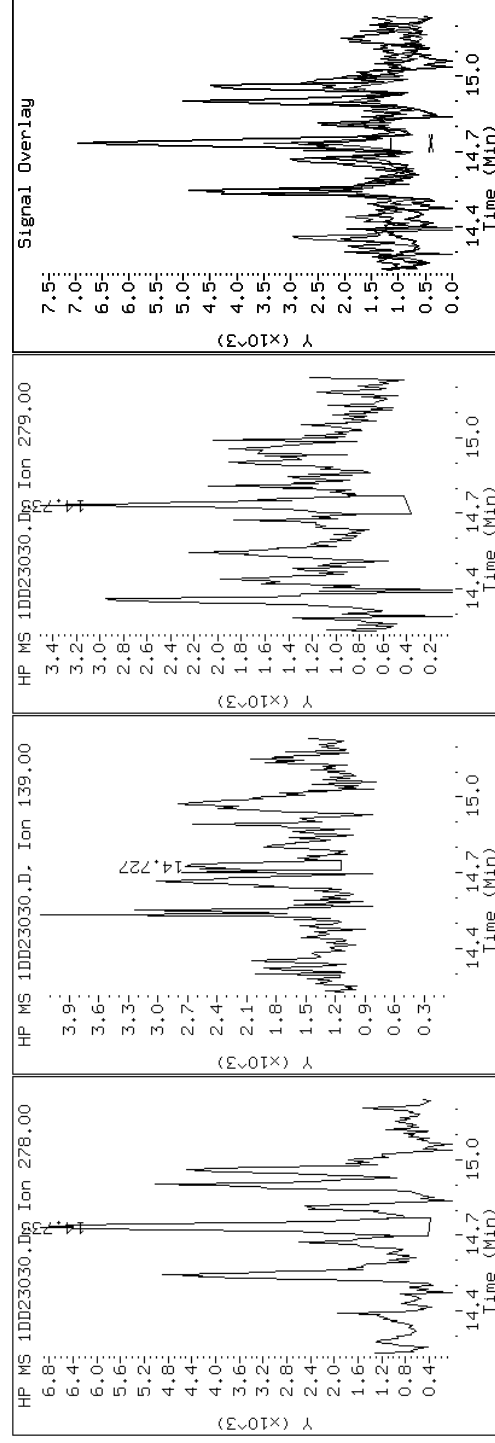
Client ID: CV0423A-CS-SP

Sample Info: 680-89459-A-29-A

Instrument: BSMSD.i

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD23030.D

Date: 23-APR-2013 23:53

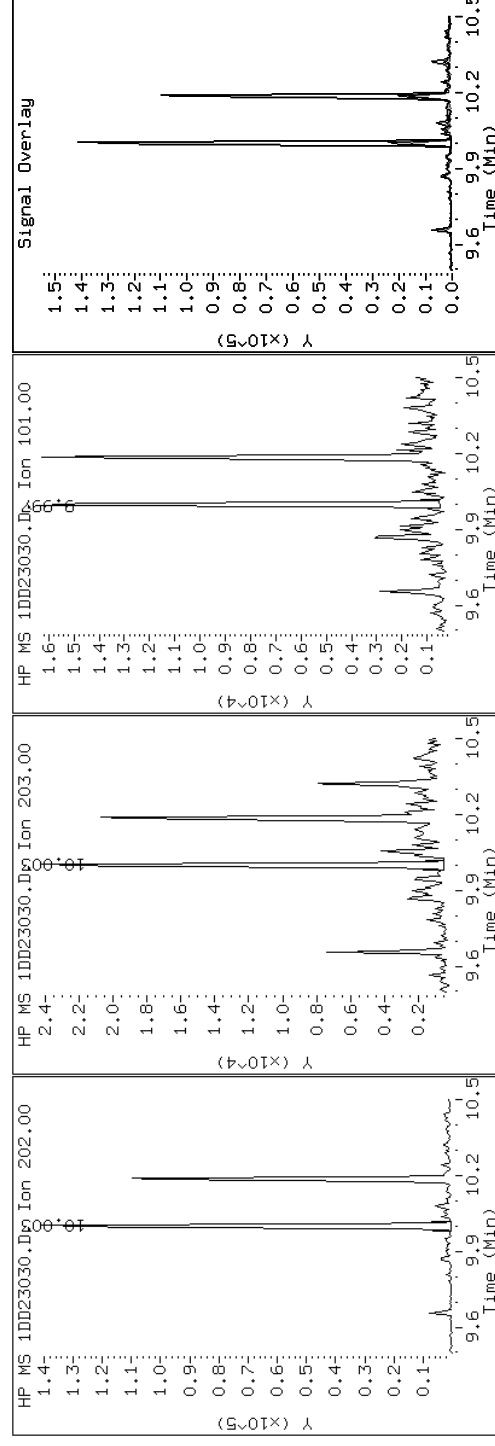
Client ID: CV0423A-CS-SP

Sample Info: 680-89459-A-29-A

Instrument: BSMSD.i

Operator: SCC

14 Fluoranthene



Data File: 1DD23030.D

Date: 23-APR-2013 23:53

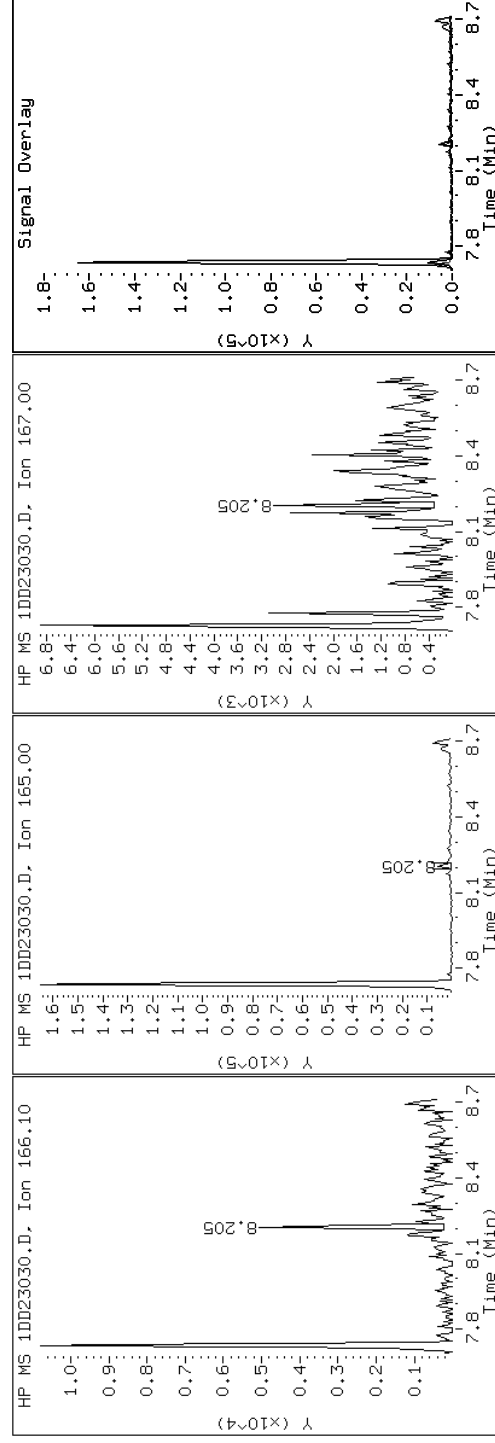
Client ID: CV0423A-CS-SP

Sample Info: 680-89459-A-29-A

Instrument: BSMSD.i

Operator: SCC

8 Fluorene



Data File: 1DD23030.D

Date: 23-APR-2013 23:53

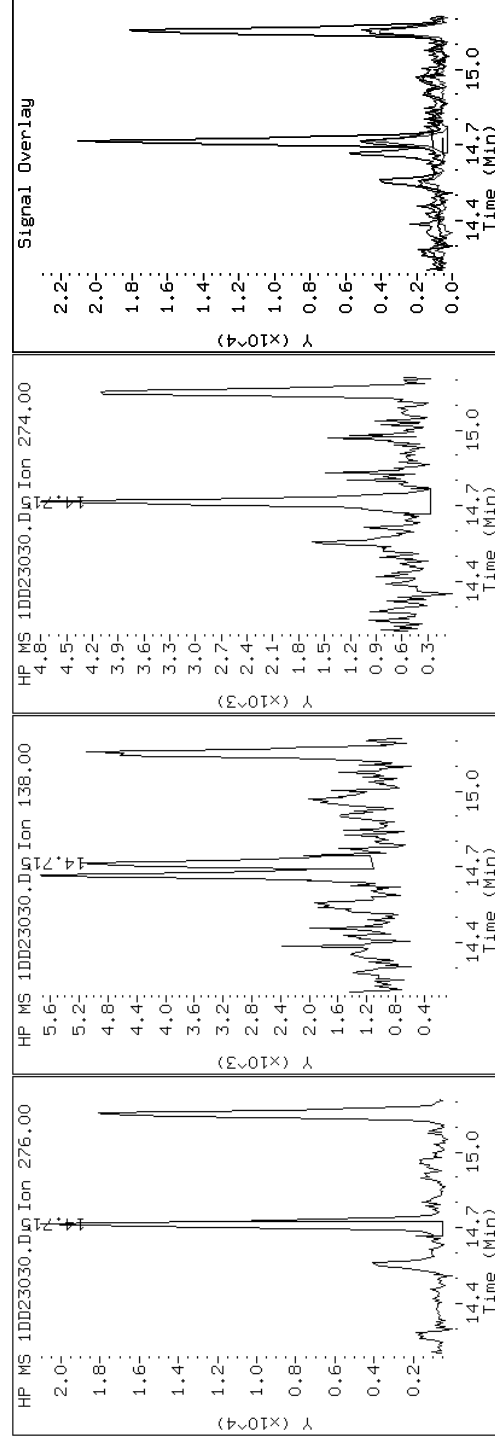
Client ID: CV0423A-CS-SP

Sample Info: 680-89459-A-29-A

Instrument: BSMDS.i

Operator: SCC

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



Data File: 1DD23030.D

Date: 23-APR-2013 23:53

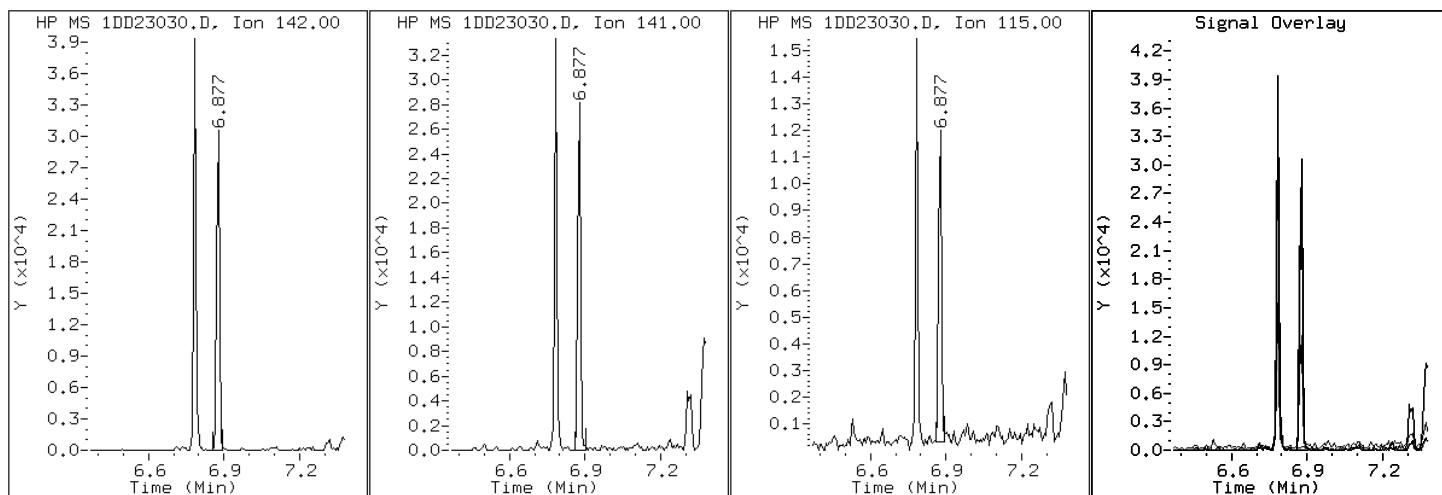
Client ID: CV0423A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-29-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD23030.D

Date: 23-APR-2013 23:53

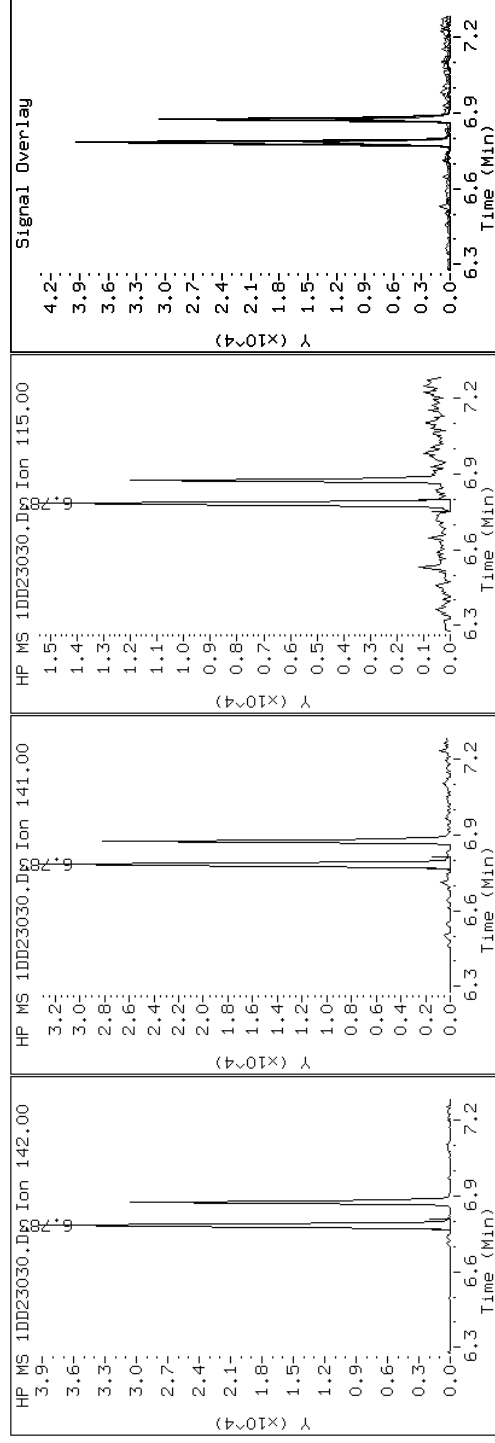
Client ID: CV0423A-CS-SP

Sample Info: 680-89459-A-29-A

Instrument: BSMDS.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD23030.D

Date: 23-APR-2013 23:53

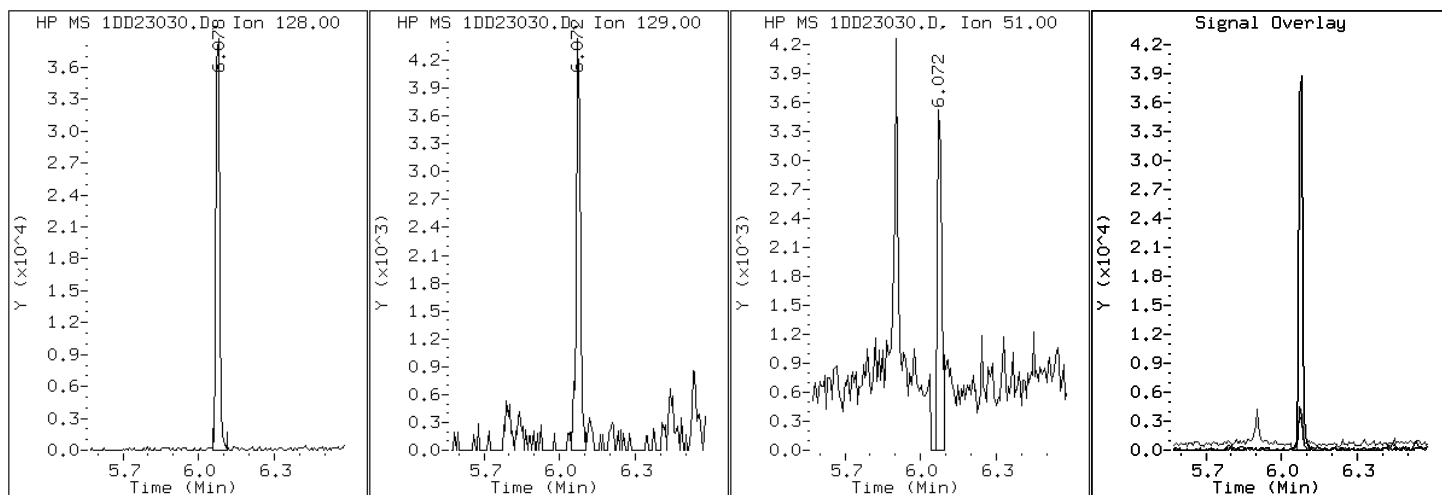
Client ID: CV0423A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-29-A

Operator: SCC

2 Naphthalene



Data File: 1DD23030.D

Date: 23-APR-2013 23:53

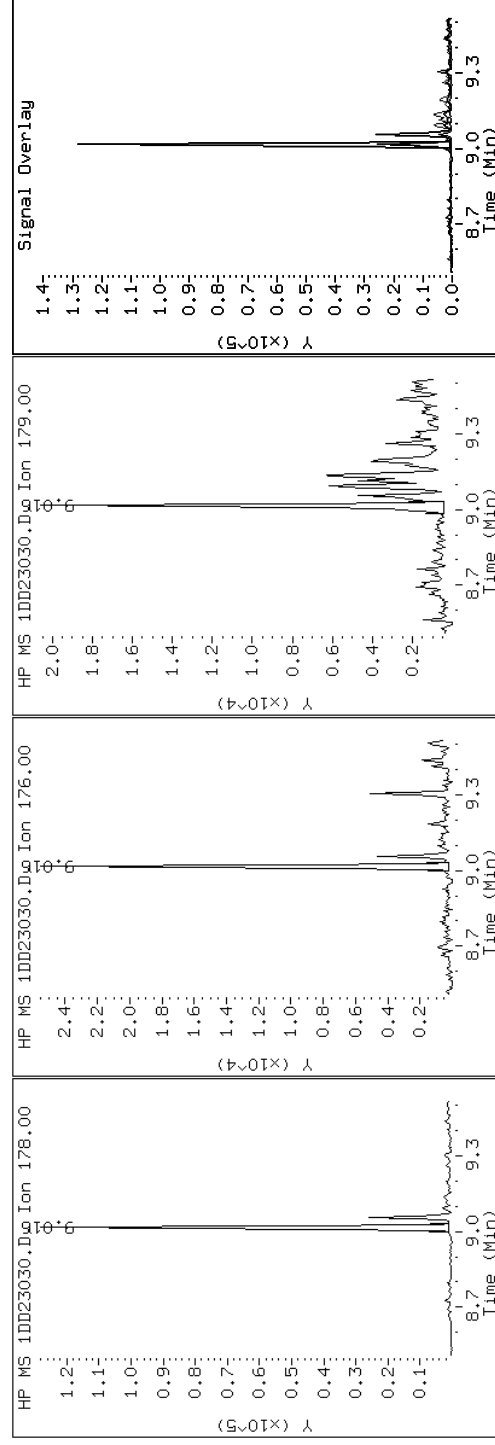
Client ID: CV0423A-CS-SP

Sample Info: 680-89459-A-29-A

Instrument: BSMSD.i

Operator: SCC

10 Phenanthrene



Data File: 1DD23030.D

Date: 23-APR-2013 23:53

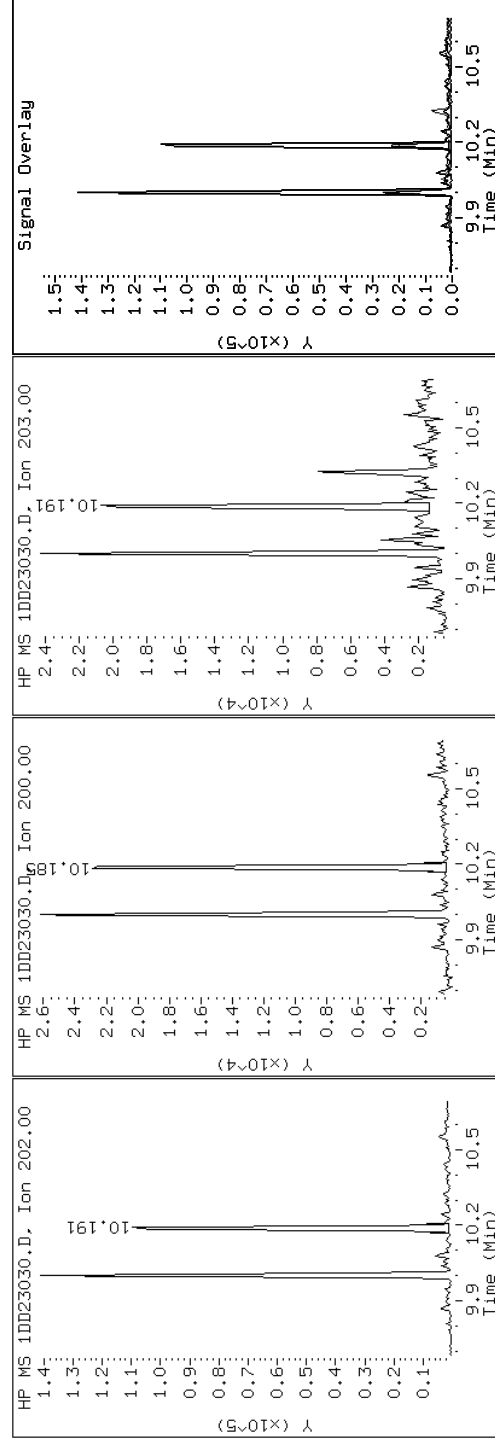
Client ID: CV0423A-CS-SP

Sample Info: 680-89459-A-29-A

Instrument: BSMSD.i

Operator: SCC

15 Pyrene

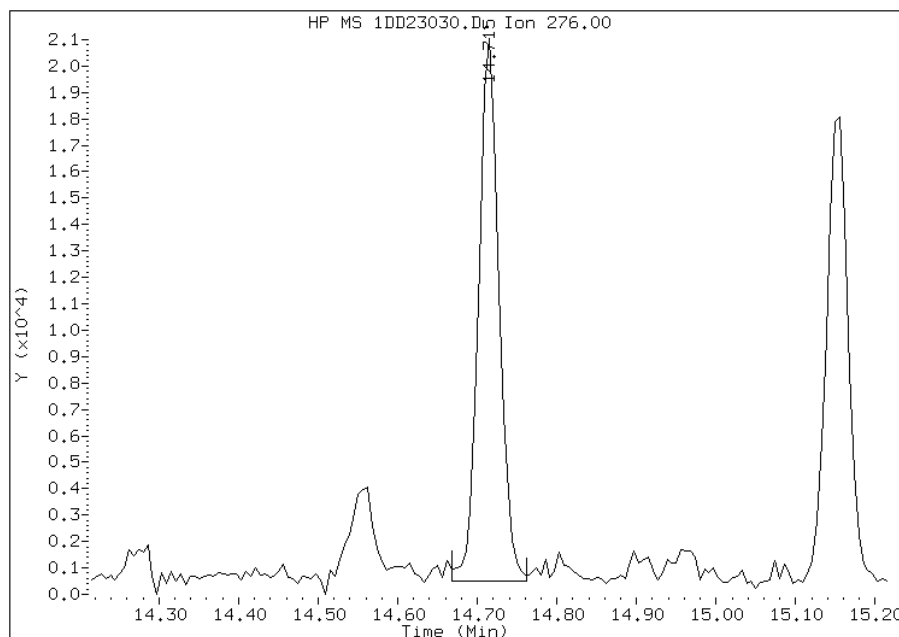


Manual Integration Report

Data File: 1DD23030.D
Inj. Date and Time: 23-APR-2013 23:53
Instrument ID: BSMSD.i
Client ID: CV0423A-CS-SP
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

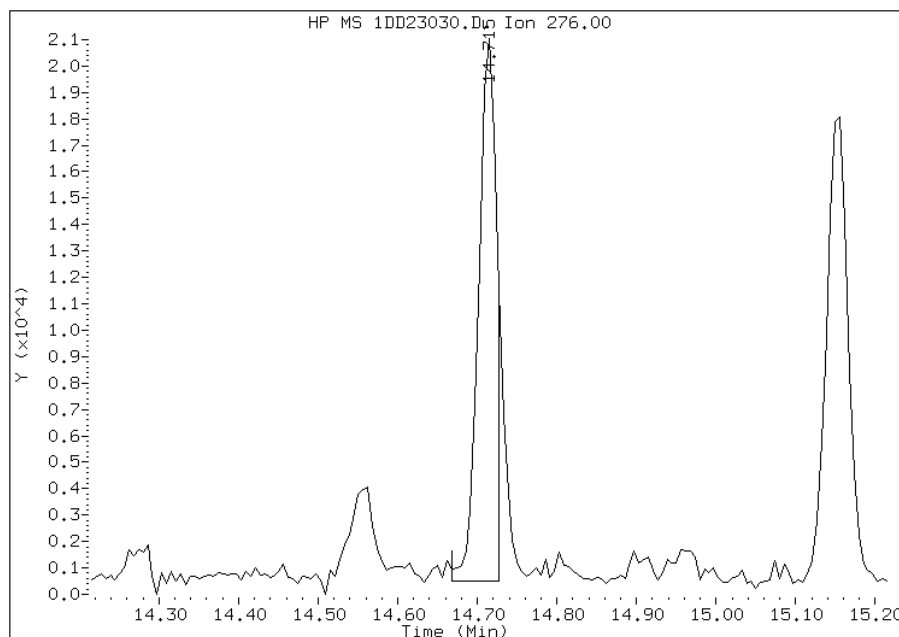
Processing Integration Results

RT: 14.71
Response: 36386
Amount: 1
Conc: 63



Manual Integration Results

RT: 14.71
Response: 32015
Amount: 1
Conc: 55



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 13:29
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-2</u>
SDG No.: <u>68089459-2</u>	
Client Sample ID: <u>CV0423B-CS-SP</u>	Lab Sample ID: <u>680-89459-30</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD23031.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 15:50</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 15:35</u>
Sample wt/vol: <u>15.11(g)</u>	Date Analyzed: <u>04/24/2013 00:16</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>24.1</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136756</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	75		52	6.5
120-12-7	Anthracene	89		11	5.5
56-55-3	Benzo[a]anthracene	370		10	5.1
50-32-8	Benzo[a]pyrene	400		14	6.8
205-99-2	Benzo[b]fluoranthene	770		16	8.0
191-24-2	Benzo[g,h,i]perylene	230		26	5.8
207-08-9	Benzo[k]fluoranthene	280		10	4.7
218-01-9	Chrysene	480		12	5.9
53-70-3	Dibenz(a,h)anthracene	69		26	5.4
206-44-0	Fluoranthene	810		26	5.2
86-73-7	Fluorene	23	J	26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	210		26	9.3
90-12-0	1-Methylnaphthalene	150		52	5.8
91-57-6	2-Methylnaphthalene	140		52	9.3
91-20-3	Naphthalene	140		52	5.8
85-01-8	Phenanthrene	420		10	5.1
129-00-0	Pyrene	540		26	4.8

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23031.D
Lab Smp Id: 680-89459-A-30-A Client Smp ID: CV0423B-CS-SP
Inj Date : 24-APR-2013 00:16
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89459-A-30-A
Misc Info : 680-89459-A-30-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 30
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	15.110	Weight Extracted
M	24.066	% 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

						CONCENTRATIONS			
		QUANT	SIG					ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)	
=====		=====	=====	=====	=====	=====	=====	=====	
*	1 Naphthalene-d8	136	6.055	6.051	(1.000)	1805186	40.0000		
*	6 Acenaphthene-d10	164	7.736	7.732	(1.000)	1020266	40.0000		
*	9 Phenanthrene-d10	188	8.999	8.995	(1.000)	1682919	40.0000		
\$	13 o-Terphenyl	230	9.305	9.306	(1.034)	136672	5.38988	470	
*	17 Chrysene-d12	240	11.314	11.304	(1.000)	2094065	40.0000		
*	22 Perylene-d12	264	13.141	13.120	(1.000)	1889373	40.0000		
	2 Naphthalene	128	6.073	6.075	(1.003)	70075	1.56177	140	
	3 2-Methylnaphthalene	142	6.784	6.780	(1.120)	46323	1.59932	140	
	4 1-Methylnaphthalene	142	6.878	6.874	(1.136)	46219	1.68977	150	
	5 Acenaphthylene	152	7.607	7.608	(0.983)	37208	0.86165	75	
	7 Acenaphthene	154	7.759	7.761	(1.003)	4941	0.18537	16	
	8 Fluorene	166	8.206	8.208	(1.061)	8203	0.25988	23	
	10 Phenanthrene	178	9.017	9.013	(1.002)	223719	4.82616	420	
	11 Anthracene	178	9.058	9.054	(1.007)	46933	1.02008	89	

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
12 Carbazole	167	9.199	9.195	(1.022)	48214	1.18804	100
14 Fluoranthene	202	10.004	10.000	(1.112)	445875	9.34709	810
15 Pyrene	202	10.192	10.188	(0.901)	387596	6.16361	540
16 Benzo(a)anthracene	228	11.302	11.287	(0.999)	254269	4.19977	370
18 Chrysene	228	11.337	11.328	(1.002)	312747	5.50917	480
19 Benzo(b)fluoranthene	252	12.601	12.585	(0.959)	419540	8.88913	770
20 Benzo(k)fluoranthene	252	12.630	12.620	(0.961)	160666	3.23127	280
21 Benzo(a)pyrene	252	13.047	13.032	(0.993)	219438	4.62735	400
23 Indeno(1,2,3-cd)pyrene	276	14.728	14.706	(1.121)	121792	2.40858	210(M)
24 Dibenzo(a,h)anthracene	278	14.745	14.735	(1.122)	37907	0.79608	69
25 Benzo(g,h,i)perylene	276	15.162	15.141	(1.154)	127517	2.61907	230

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD23031.D

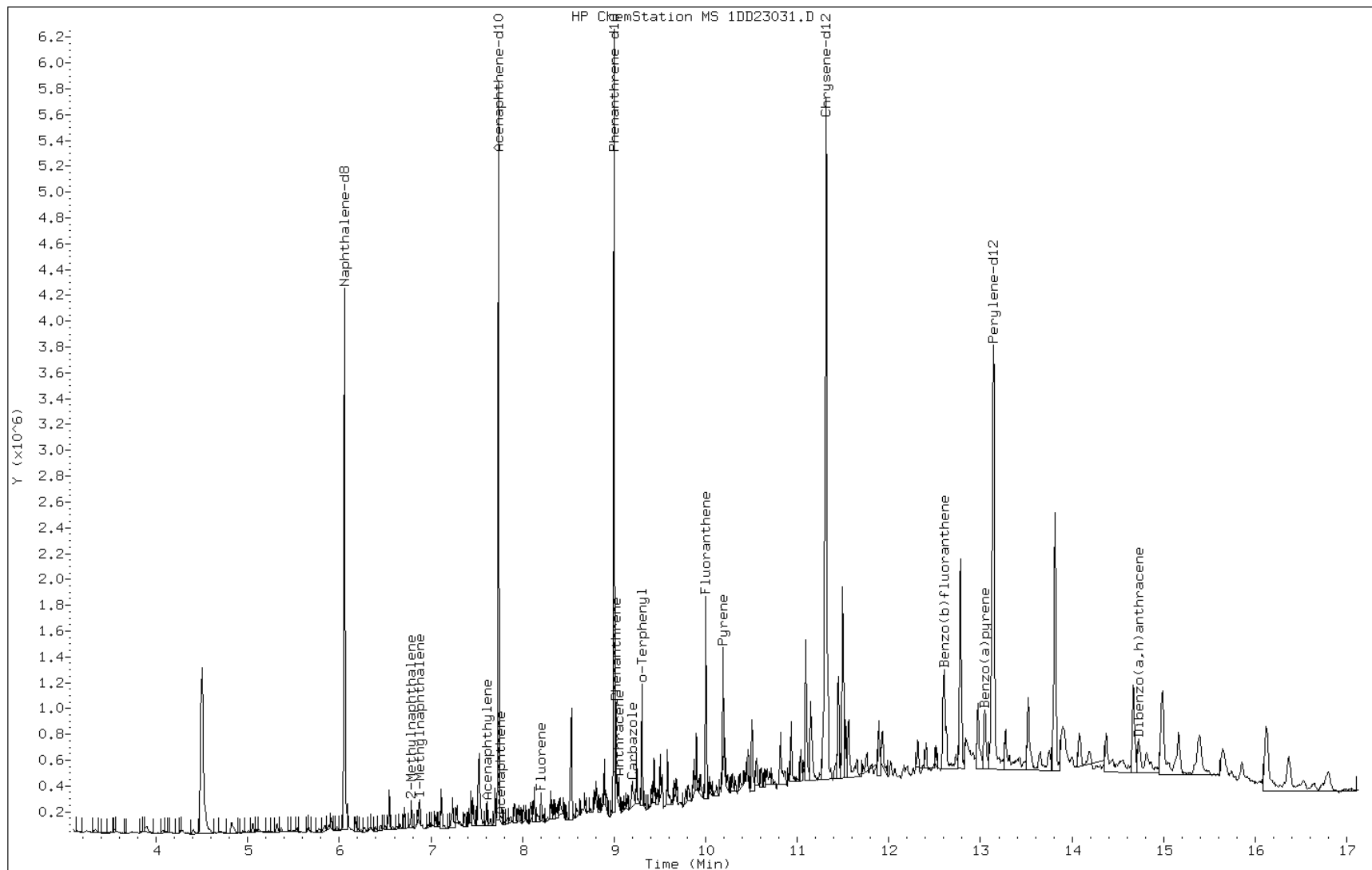
Date: 24-APR-2013 00:16

Client ID: CV0423B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-30-A

Operator: SCC



Data File: 1DD23031.D

Date: 24-APR-2013 00:16

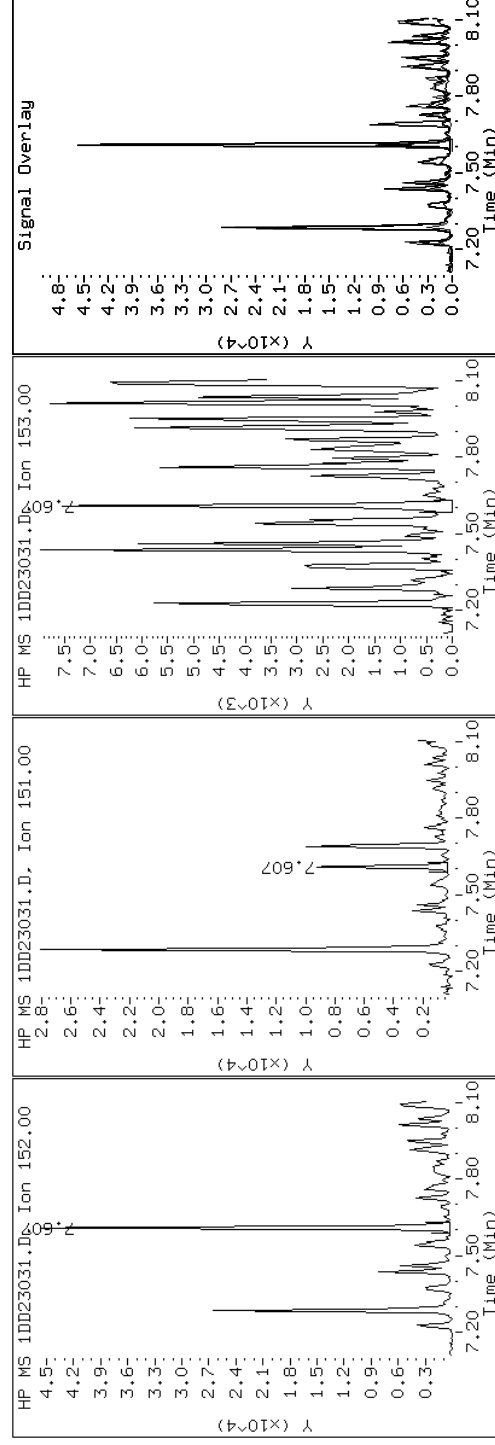
Client ID: CV0423B-CS-SP

Sample Info: 680-89459-A-30-A

Instrument: BSMDS.i

Operator: SCC

5 Acenaphthylene



Data File: 1DD23031.D

Date: 24-APR-2013 00:16

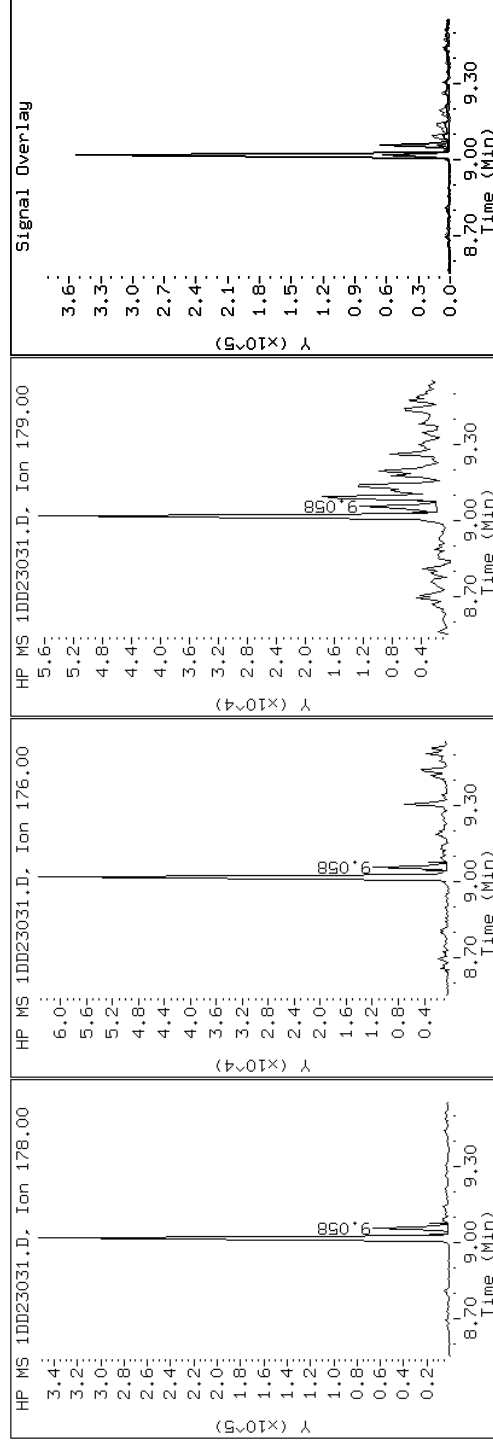
Client ID: CV0423B-CS-SP

Sample Info: 680-89459-A-30-A

11 Anthracene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23031.D

Date: 24-APR-2013 00:16

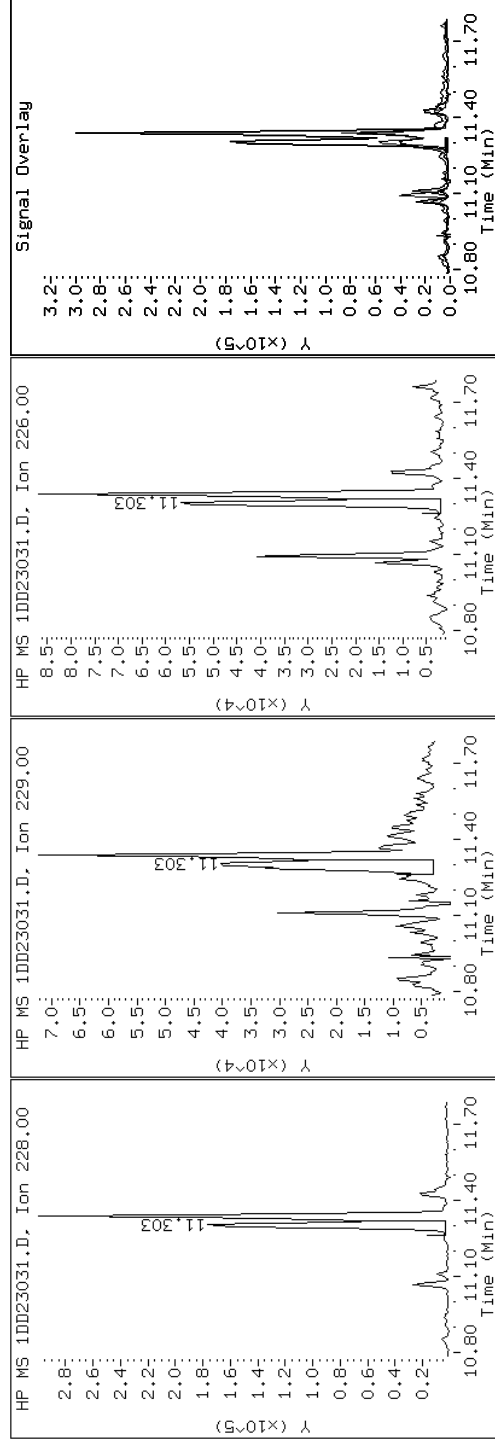
Client ID: CV0423B-CS-SP

Sample Info: 680-89459-A-30-A

Instrument: BSMDS.i

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD23031.D

Date: 24-APR-2013 00:16

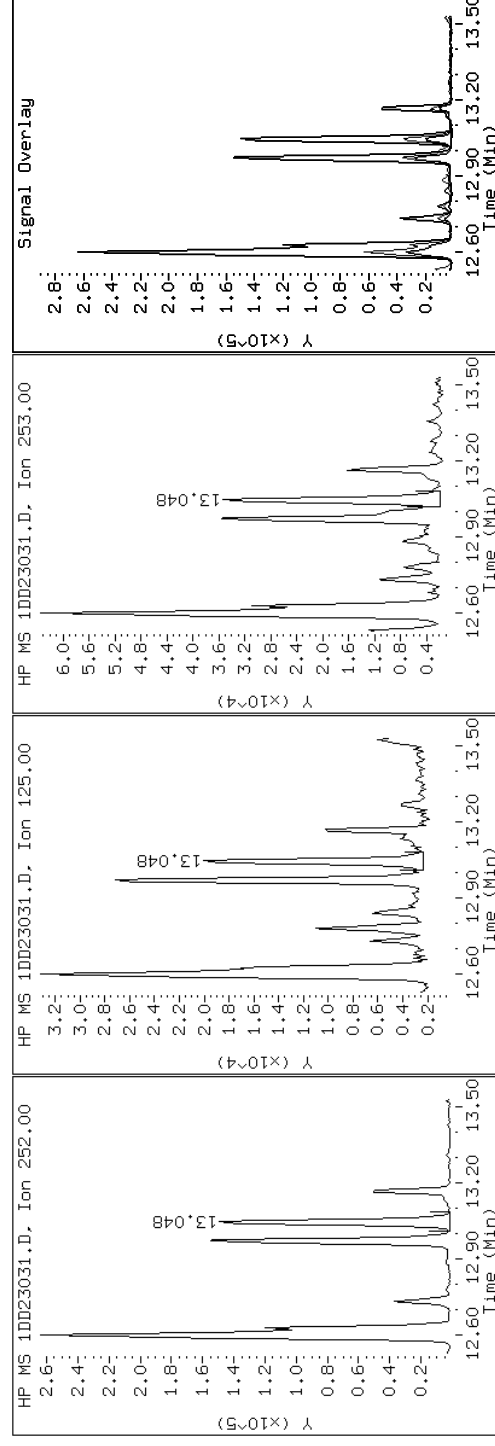
Client ID: CV0423B-CS-SP

Sample Info: 680-89459-A-30-A

Instrument: BSMSD.i

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD23031.D

Date: 24-APR-2013 00:16

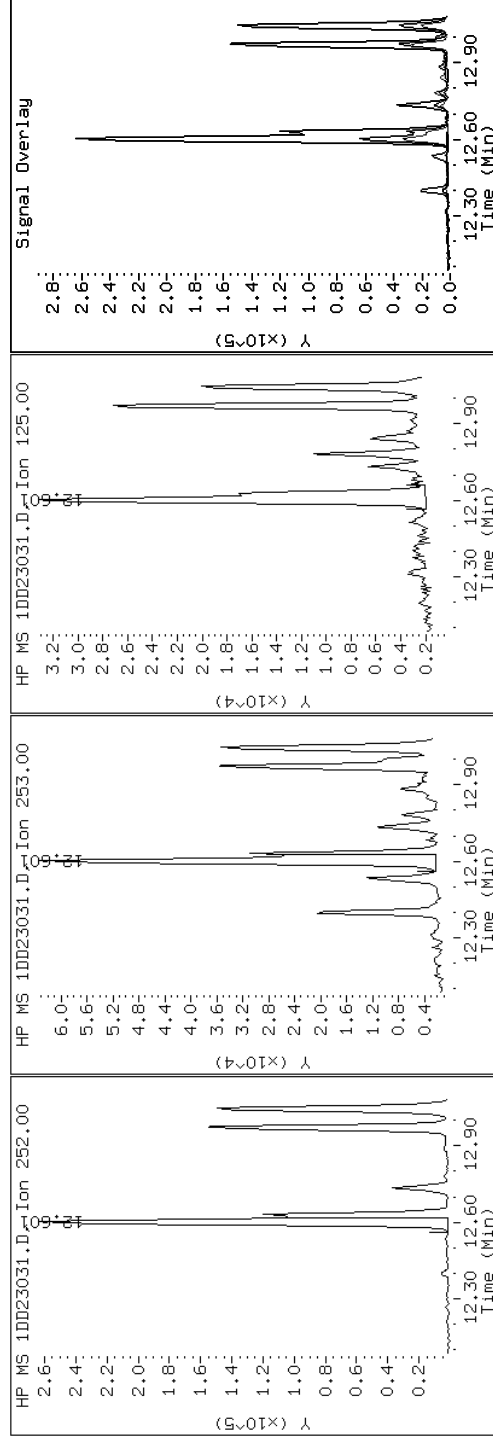
Client ID: CV0423B-CS-SP

Sample Info: 680-89459-A-30-A

Instrument: BSMDS.i

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD23031.D

Date: 24-APR-2013 00:16

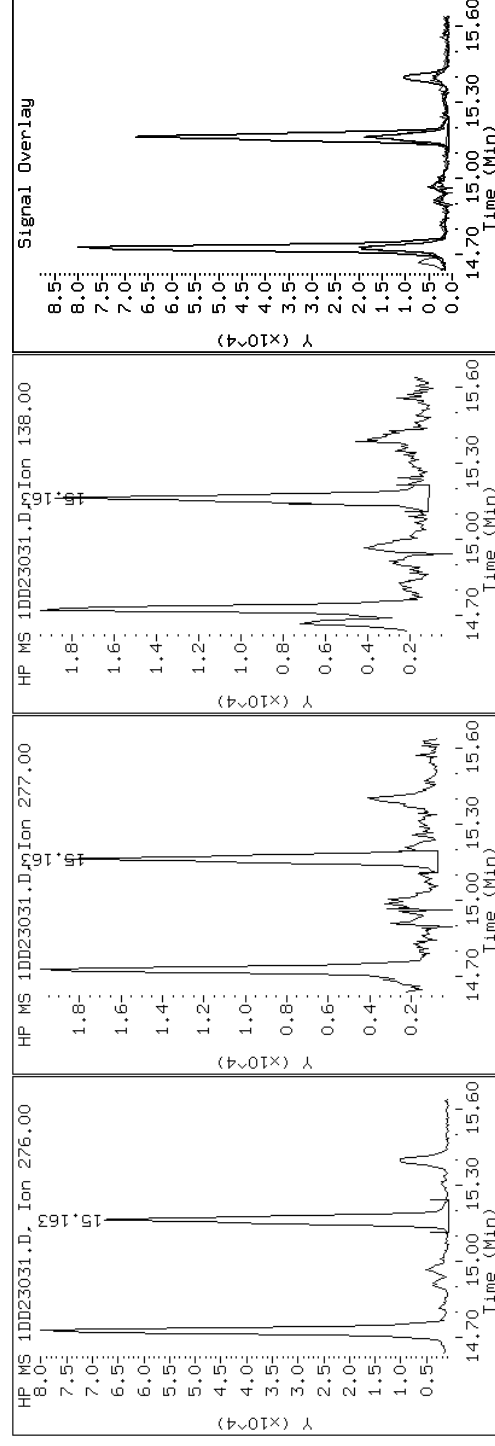
Client ID: CV0423B-CS-SP

Sample Info: 680-89459-A-30-A

Instrument: BSMDS.i

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD23031.D

Date: 24-APR-2013 00:16

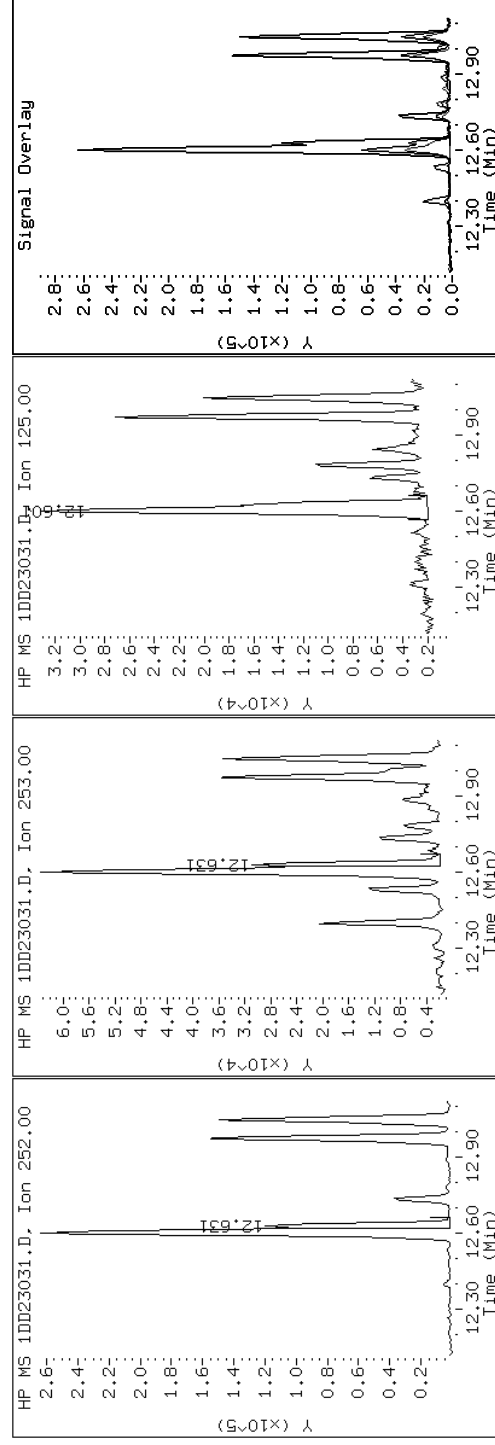
Client ID: CV0423B-CS-SP

Sample Info: 680-89459-A-30-A

Instrument: BSMDS.i

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD23031.D

Date: 24-APR-2013 00:16

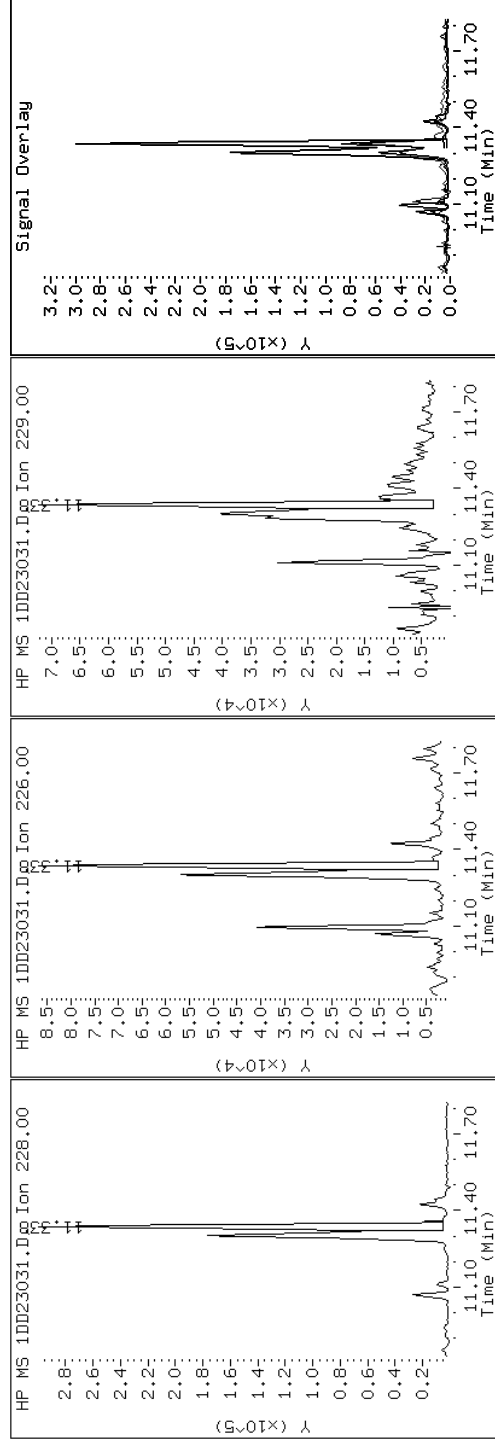
Client ID: CV0423B-CS-SP

Sample Info: 680-89459-A-30-A

18 Chrysene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23031.D

Date: 24-APR-2013 00:16

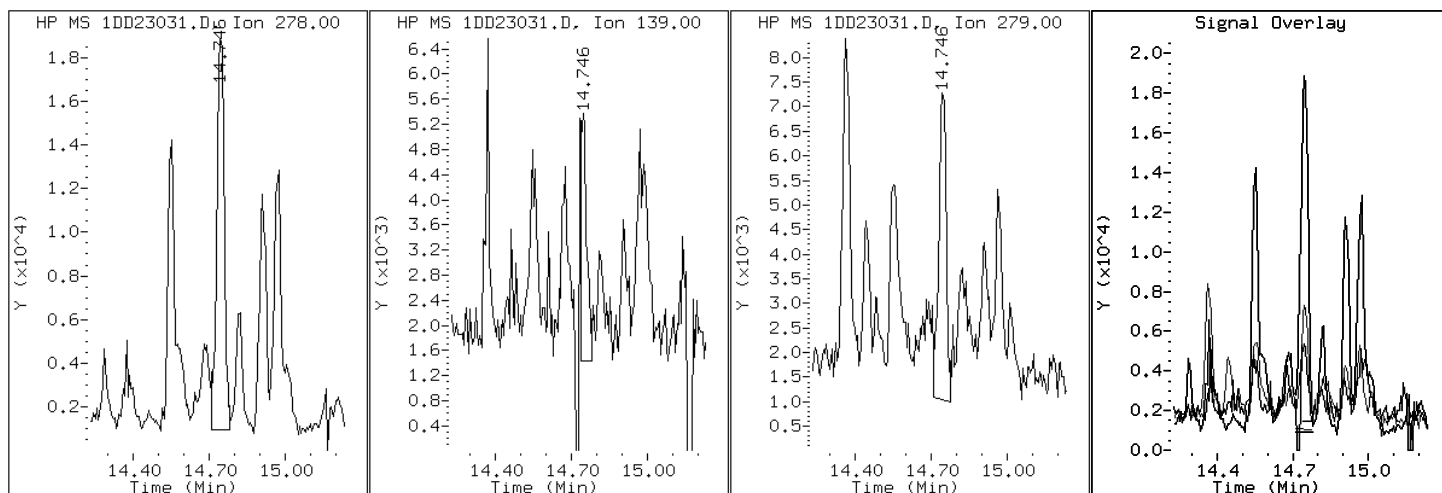
Client ID: CV0423B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-30-A

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD23031.D

Date: 24-APR-2013 00:16

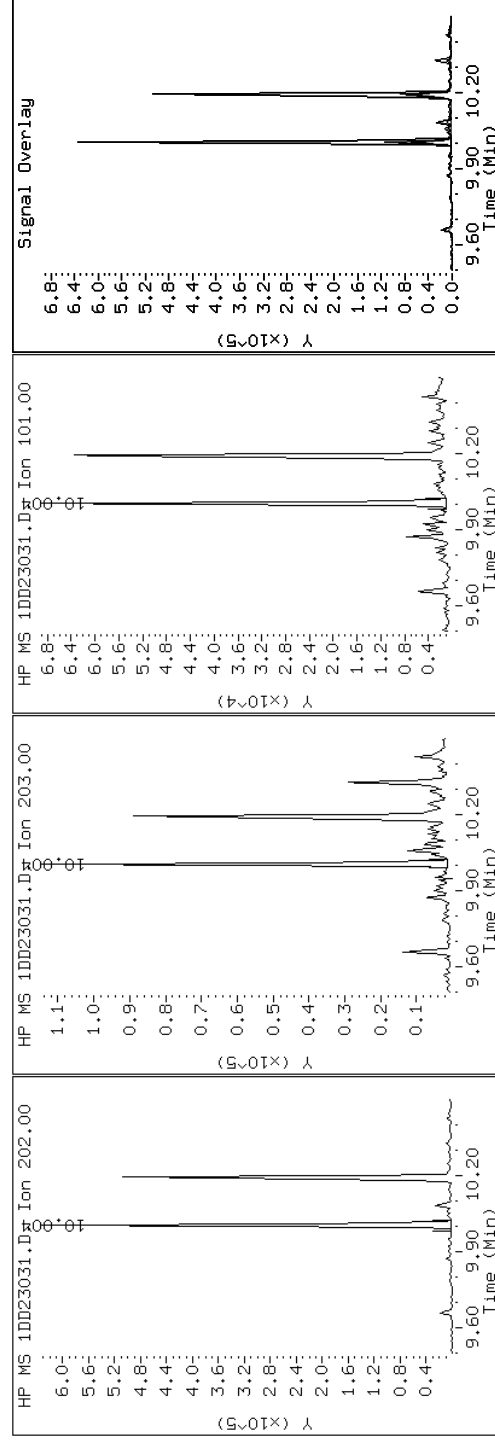
Client ID: CV0423B-CS-SP

Sample Info: 680-89459-A-30-A

Instrument: BSMDS.i

Operator: SCC

14 Fluoranthene



Data File: 1DD23031.D

Date: 24-APR-2013 00:16

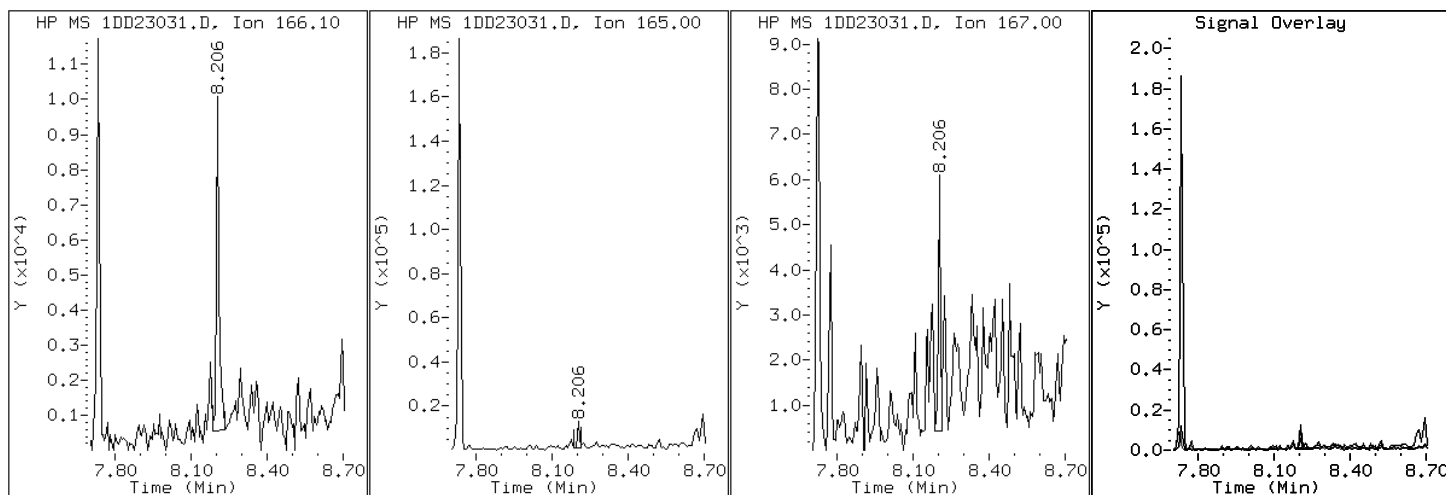
Client ID: CV0423B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-30-A

Operator: SCC

8 Fluorene



Data File: 1DD23031.D

Date: 24-APR-2013 00:16

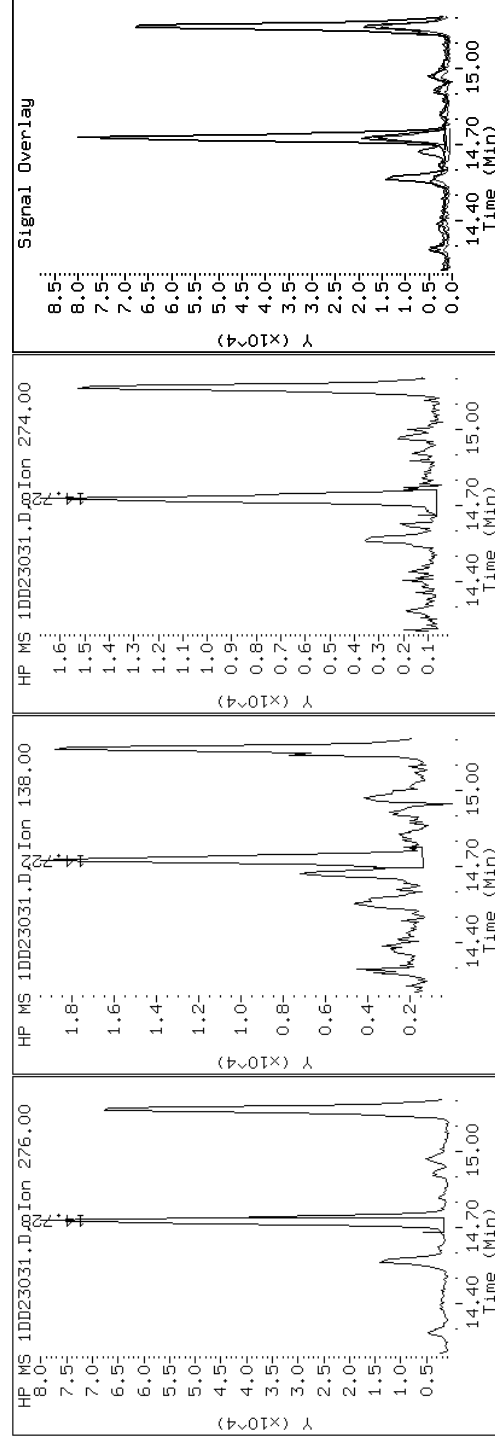
Client ID: CV0423B-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89459-A-30-A

Operator: SCC

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



Data File: 1DD23031.D

Date: 24-APR-2013 00:16

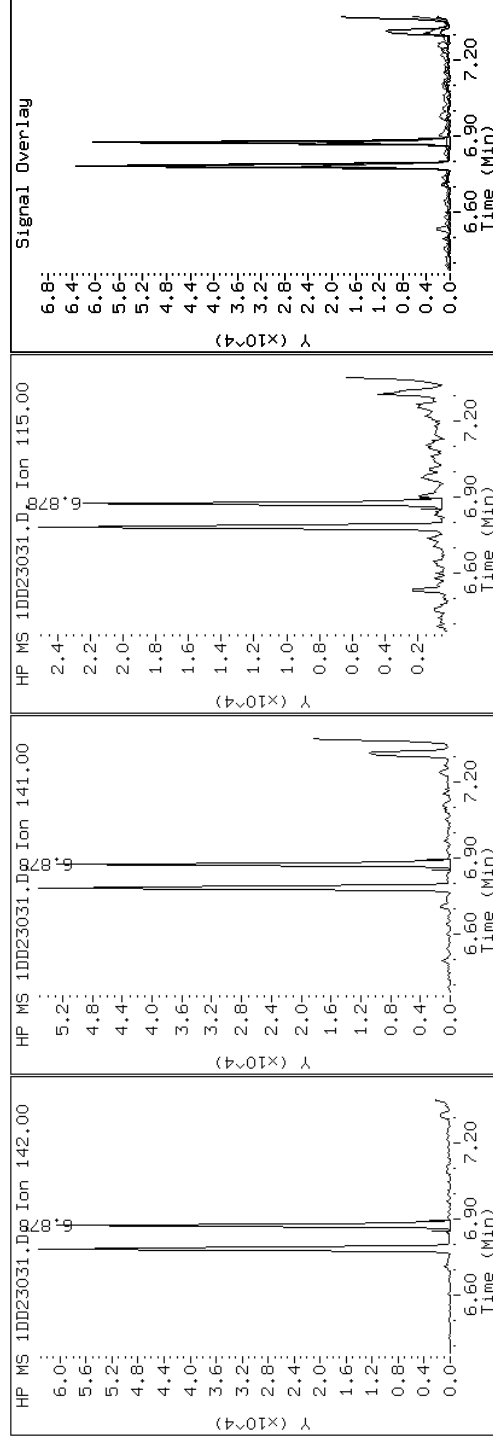
Client ID: CV0423B-CS-SP

Sample Info: 680-89459-A-30-A

Instrument: BSMDS.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD23031.D

Date: 24-APR-2013 00:16

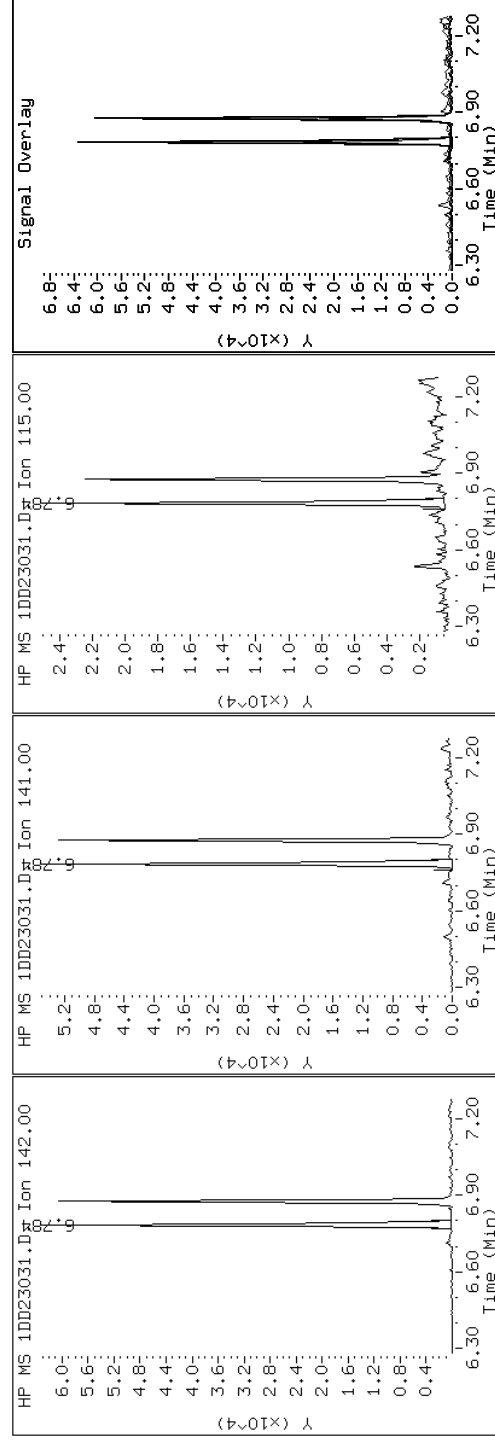
Client ID: CV0423B-CS-SP

Sample Info: 680-89459-A-30-A

Instrument: BSMDS.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD23031.D

Date: 24-APR-2013 00:16

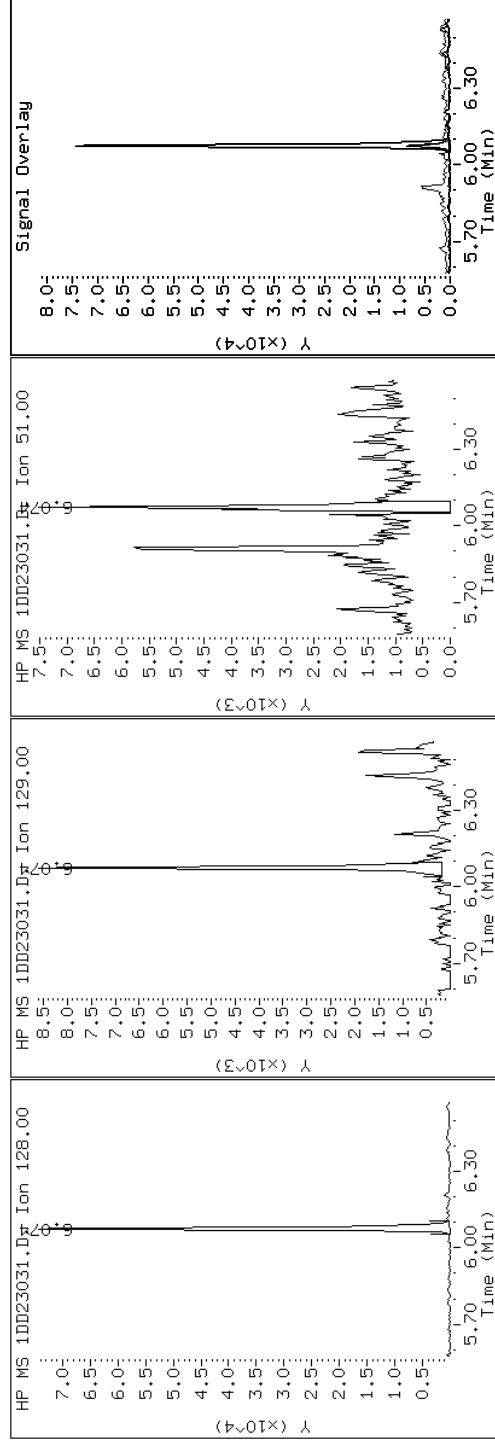
Client ID: CV0423B-CS-SP

Sample Info: 680-89459-A-30-A

2 Naphthalene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23031.D

Date: 24-APR-2013 00:16

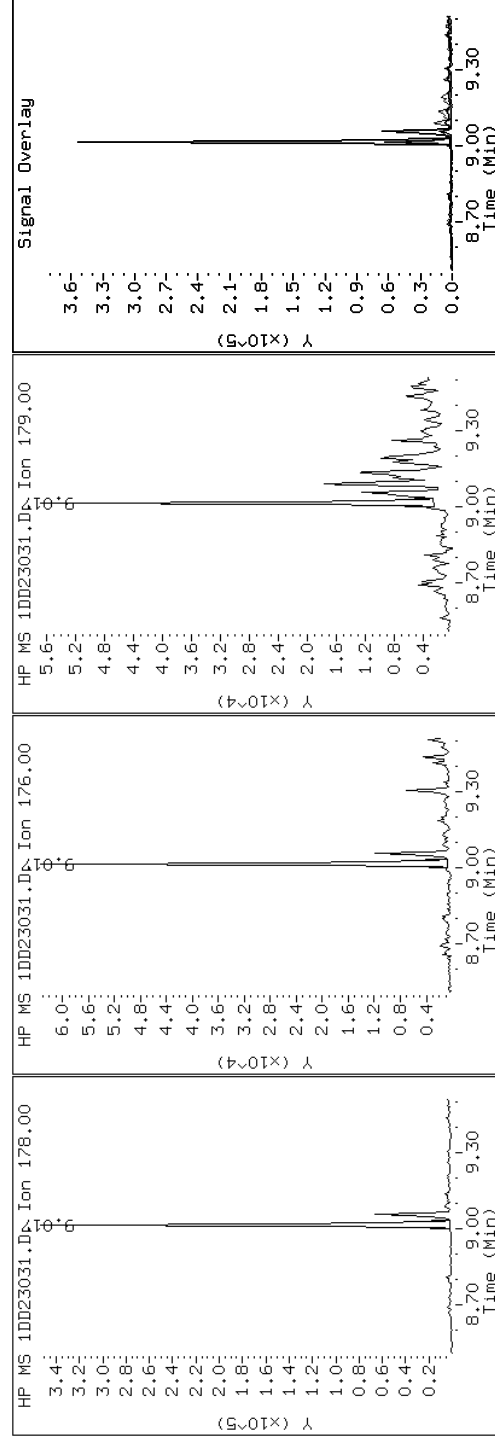
Client ID: CV0423B-CS-SP

Sample Info: 680-89459-A-30-A

Instrument: BSMSD.i

Operator: SCC

10 Phenanthrene



Data File: 1DD23031.D

Date: 24-APR-2013 00:16

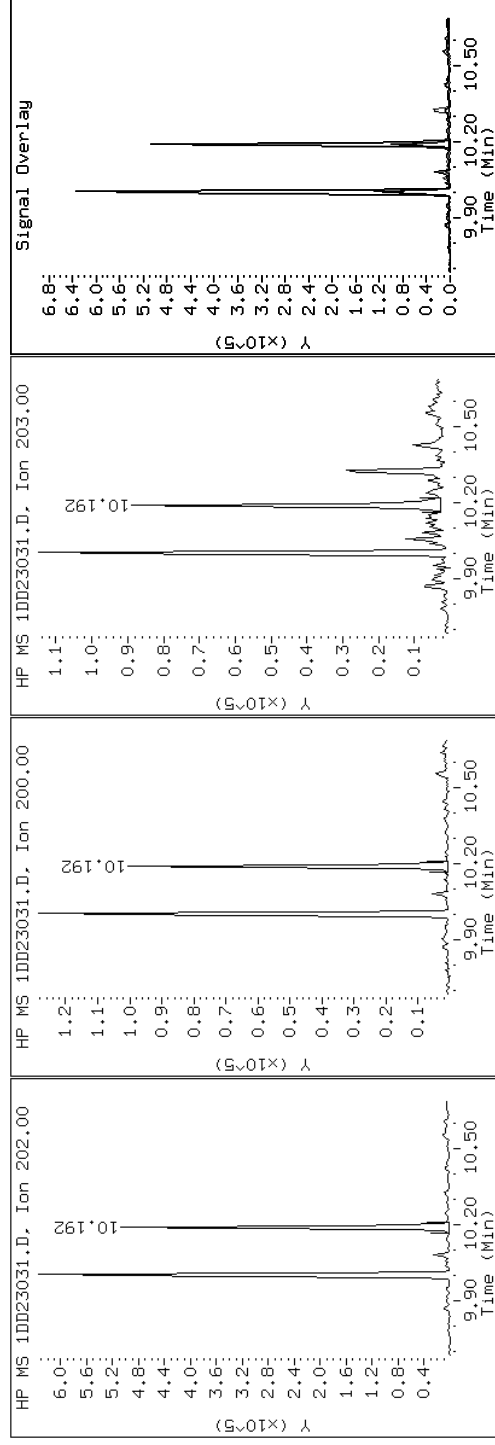
Client ID: CV0423B-CS-SP

Sample Info: 680-89459-A-30-A

15 Pyrene

Instrument: BSMDS.i

Operator: SCC

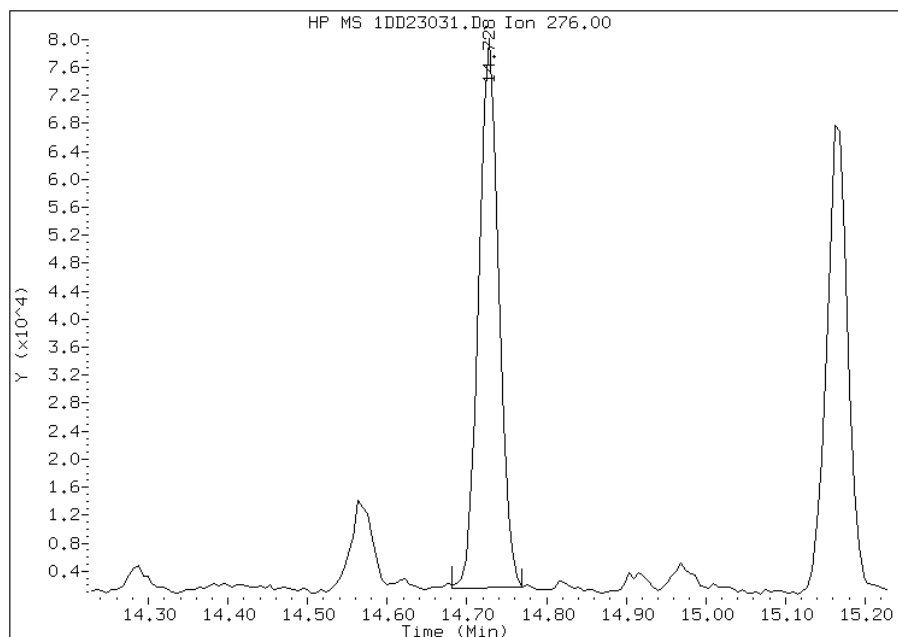


Manual Integration Report

Data File: 1DD23031.D
Inj. Date and Time: 24-APR-2013 00:16
Instrument ID: BSMSD.i
Client ID: CV0423B-CS-SP
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

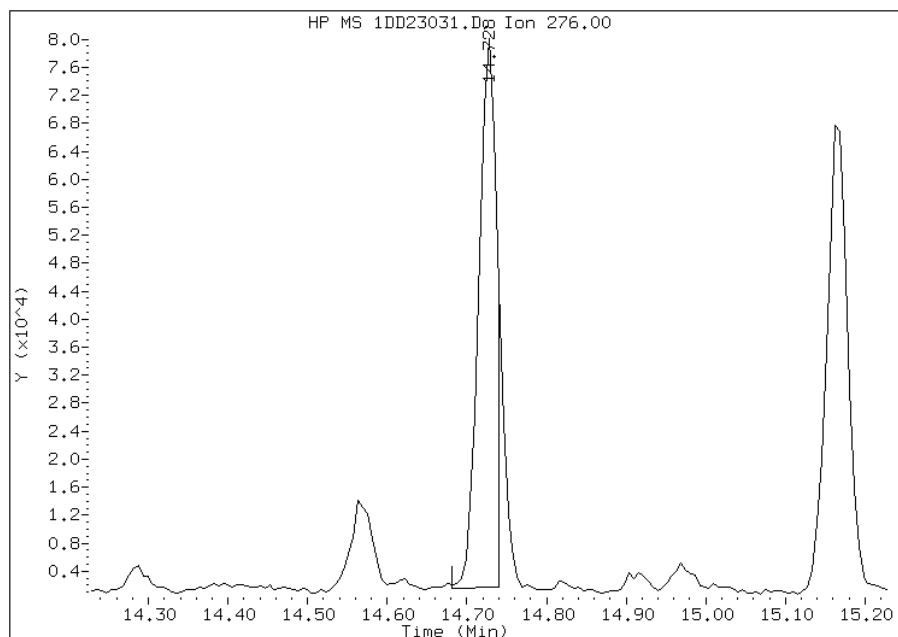
Processing Integration Results

RT: 14.73
Response: 136208
Amount: 3
Conc: 235



Manual Integration Results

RT: 14.73
Response: 121792
Amount: 2
Conc: 210



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 13:30
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-2</u>
SDG No.: <u>68089459-2</u>	
Client Sample ID: <u>CV1013A-CS-SP</u>	Lab Sample ID: <u>680-89459-31</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD24020.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 13:45</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/23/2013 10:36</u>
Sample wt/vol: <u>14.98(g)</u>	Date Analyzed: <u>04/24/2013 18:11</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>18.5</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136792</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	26	J	120	25
208-96-8	Acenaphthylene	61		49	6.1
120-12-7	Anthracene	48		10	5.2
56-55-3	Benzo[a]anthracene	160		9.8	4.8
50-32-8	Benzo[a]pyrene	160		13	6.4
205-99-2	Benzo[b]fluoranthene	290		15	7.5
191-24-2	Benzo[g,h,i]perylene	110		25	5.4
207-08-9	Benzo[k]fluoranthene	130		9.8	4.4
218-01-9	Chrysene	190		11	5.5
53-70-3	Dibenz(a,h)anthracene	44		25	5.0
206-44-0	Fluoranthene	270		25	4.9
86-73-7	Fluorene	25	U	25	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	160		25	8.7
90-12-0	1-Methylnaphthalene	67		49	5.4
91-57-6	2-Methylnaphthalene	140		49	8.7
91-20-3	Naphthalene	82		49	5.4
85-01-8	Phenanthrene	180		9.8	4.8
129-00-0	Pyrene	240		25	4.5

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24020.D
Lab Smp Id: 680-89459-A-31-A Client Smp ID: CV1013A-CS-SP
Inj Date : 24-APR-2013 18:11
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89459-a-31-a
Misc Info : 680-89459-A-31-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24020.D
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{V_i} * \frac{V_t}{W_s} * \frac{100}{(100 - M)} * A * B * C * D * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	18.451	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.633	3.634	(1.000)		149712	40.0000	
* 6 Acenaphthene-d10	164		4.721	4.722	(1.000)		100132	40.0000	
* 10 Phenanthrene-d10	188		5.662	5.663	(1.000)		190385	40.0000	
\$ 14 o-Terphenyl	230		5.910	5.910	(1.044)		16754	6.06110	496.1593
* 18 Chrysene-d12	240		7.586	7.592	(1.000)		231666	40.0000	
* 23 Perylene-d12	264		8.733	8.733	(1.000)		220190	40.0000	
2 Naphthalene	128		3.645	3.646	(1.003)		4006	1.00587	82.3400(Q)
3 2-Methylnaphthalene	142		4.074	4.075	(1.121)		3413	1.73757	142.2371
4 1-Methylnaphthalene	142		4.133	4.134	(1.138)		1933	0.81985	67.1126
5 Acenaphthylene	152		4.633	4.634	(0.981)		1685	0.74254	60.7839
7 Acenaphthene	154		4.739	4.740	(1.004)		827	0.32346	26.4779
11 Phenanthrene	178		5.674	5.675	(1.002)		11336	2.17465	178.0156
12 Anthracene	178		5.715	5.710	(1.009)		2522	0.58265	47.6952
13 Carbazole	167		5.821	5.822	(1.028)		3234	0.61722	50.5256

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
15 Fluoranthene	202	6.504	6.504	(1.149)	20583	3.24494	265.6298
16 Pyrene	202	6.674	6.675	(0.880)	19675	2.87567	235.4008
17 Benzo(a)anthracene	228	7.580	7.581	(0.999)	11983	1.92879	157.8899
19 Chrysene	228	7.609	7.610	(1.003)	15191	2.29633	187.9763
20 Benzo(b)fluoranthene	252	8.409	8.410	(0.963)	21376	3.51014	287.3391(M)
21 Benzo(k)fluoranthene	252	8.421	8.428	(0.964)	9055	1.52818	125.0959(QM)
22 Benzo(a)pyrene	252	8.680	8.686	(0.994)	10563	1.96966	161.2360
24 Indeno(1,2,3-cd)pyrene	276	9.833	9.833	(1.126)	8413	1.99248	163.1038(M)
25 Dibenzo(a,h)anthracene	278	9.839	9.851	(1.127)	2842	0.53228	43.5722(M)
26 Benzo(g,h,i)perylene	276	10.150	10.163	(1.162)	7356	1.32309	108.3073

QC Flag Legend

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

Data File: 1CD24020.D

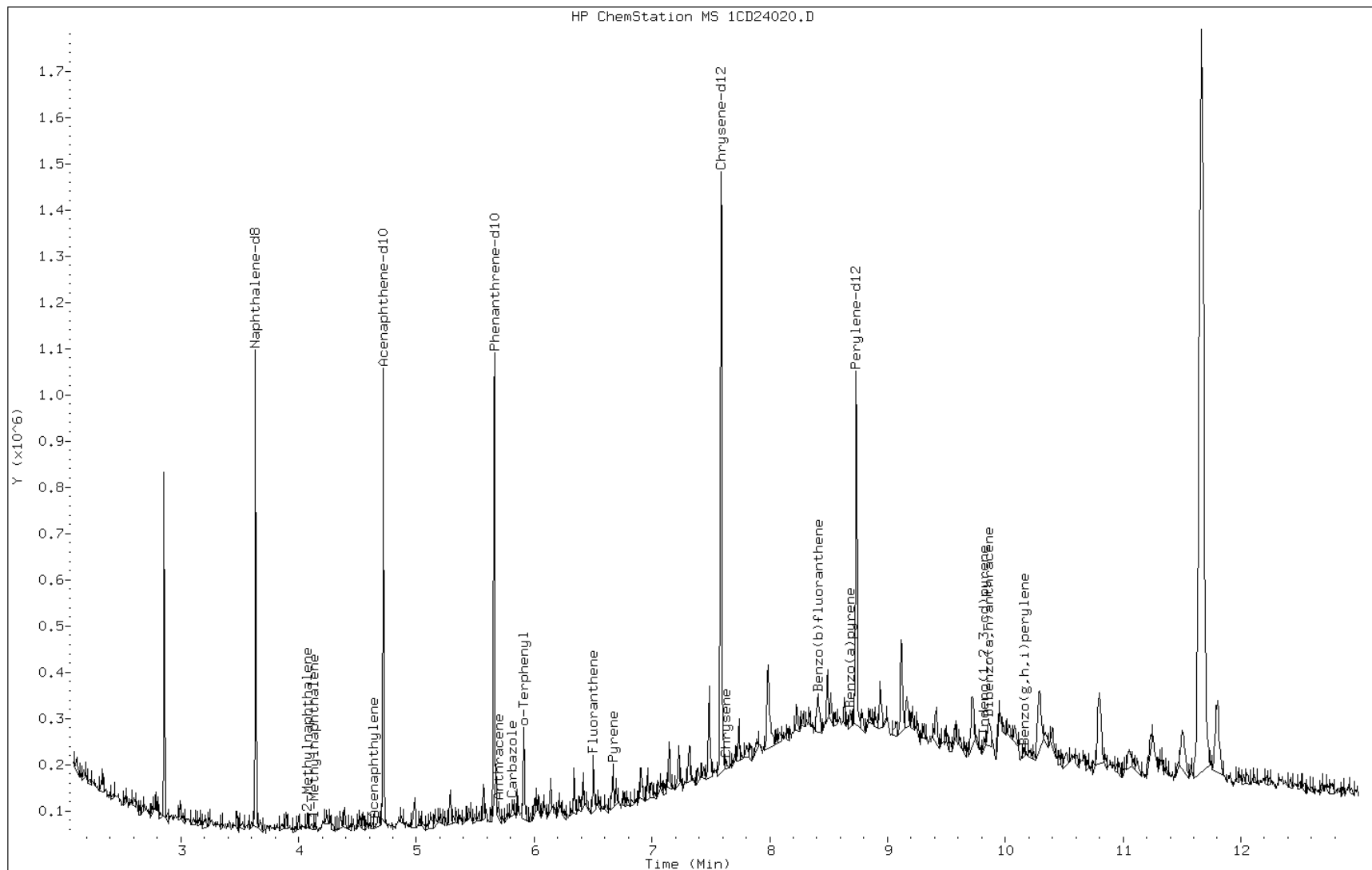
Date: 24-APR-2013 18:11

Client ID: CV1013A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89459-a-31-a

Operator: SCC



Data File: 1CD24020.D

Date: 24-APR-2013 18:11

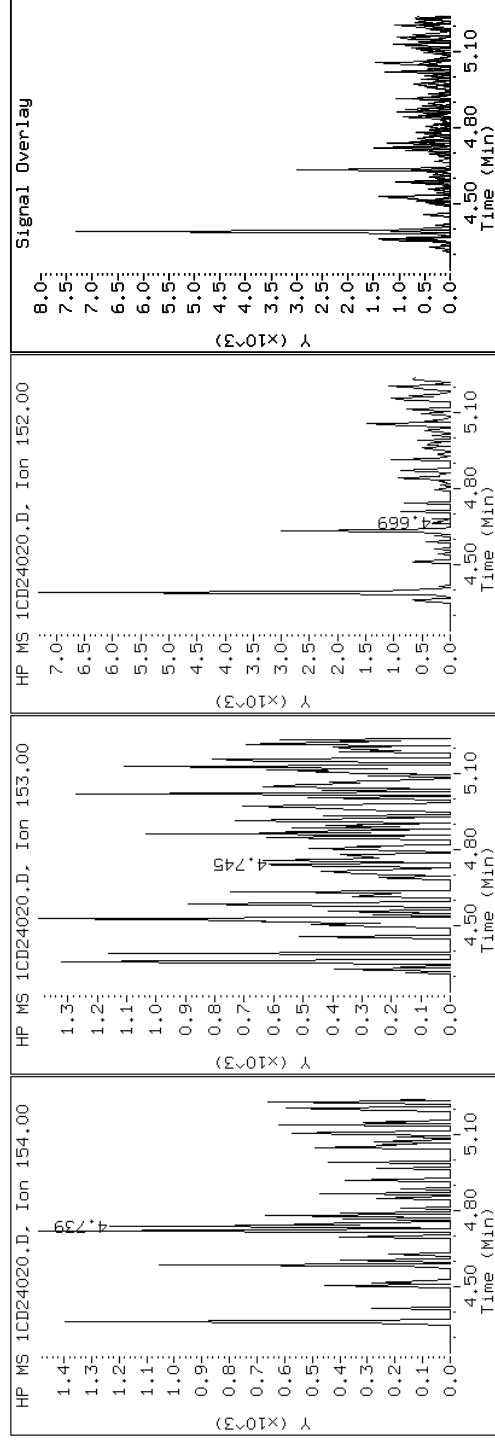
Client ID: CV1013A-CS-SP

Sample Info: 680-89459-a-31-a

Instrument: BSMC5973.i

Operator: SCC

7 Acenaphthene



Data File: 1CD24020.D

Date: 24-APR-2013 18:11

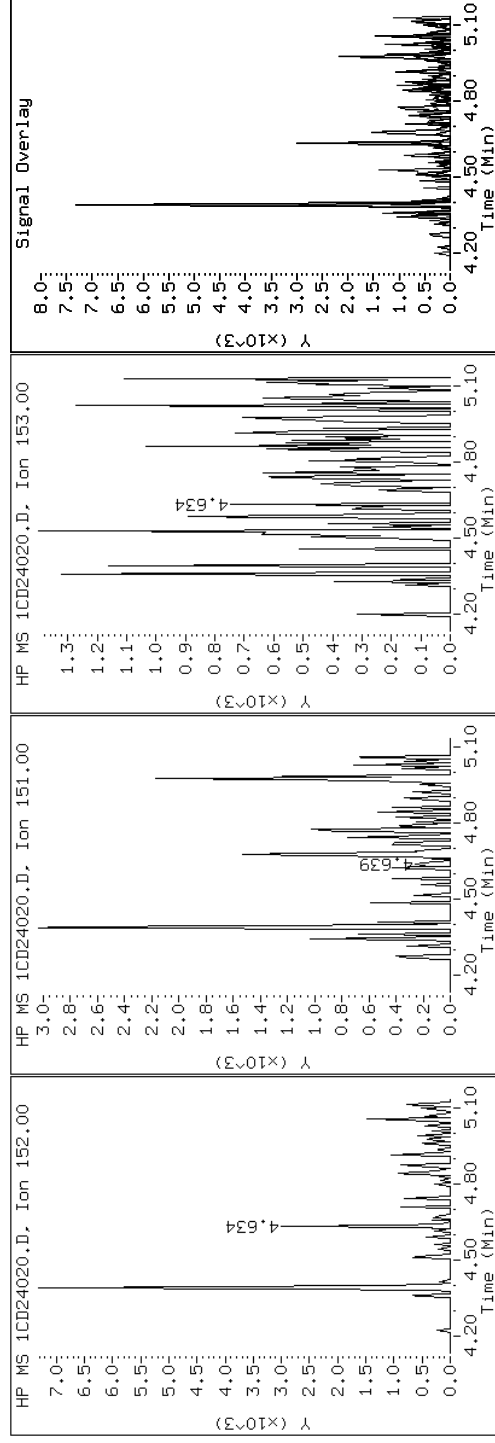
Client ID: CV1013A-CS-SP

Sample Info: 680-89459-a-31-a

Instrument: BSMC5973.i

Operator: SCC

5 Acenaphthylene



Data File: 1CD24020.D

Date: 24-APR-2013 18:11

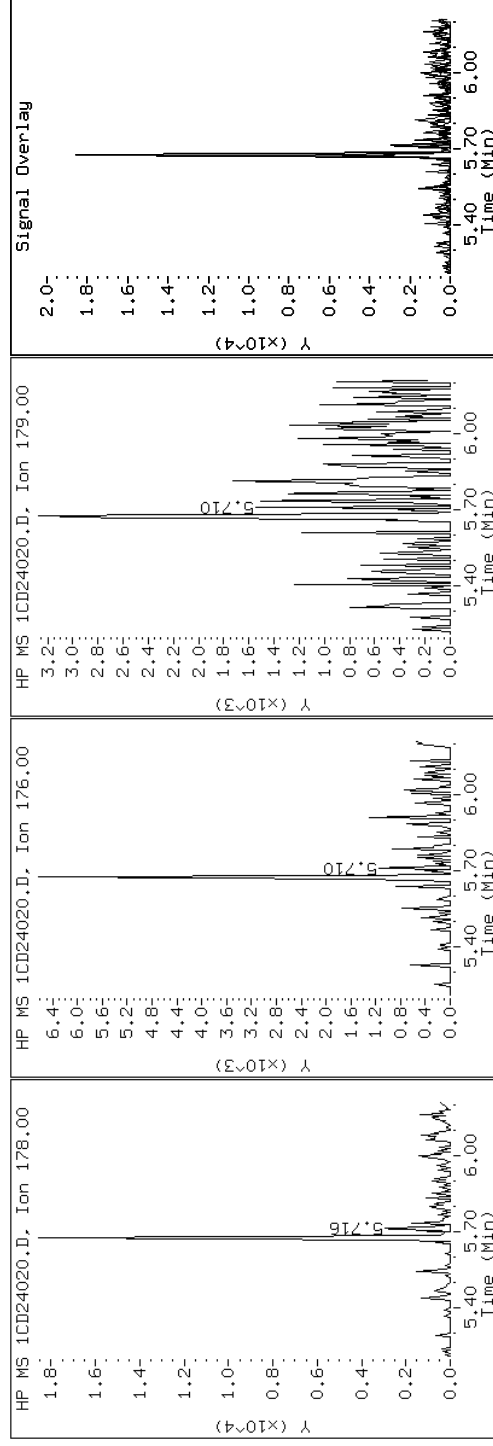
Client ID: CV1013A-CS-SP

Sample Info: 680-89459-a-31-a

12 Anthracene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD24020.D

Date: 24-APR-2013 18:11

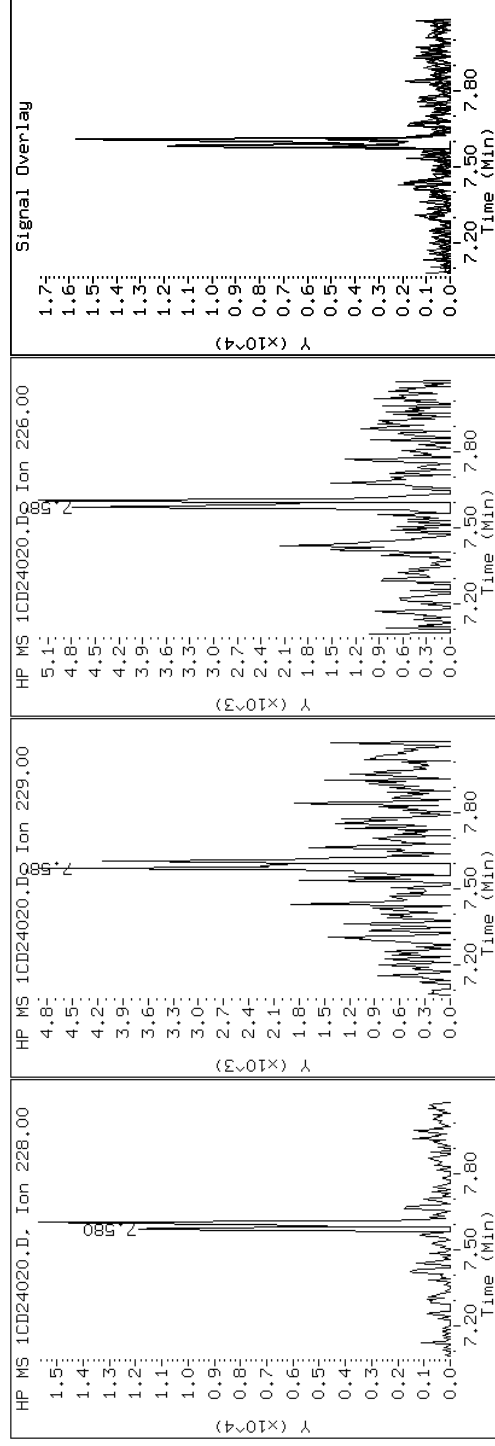
Client ID: CV1013A-CS-SP

Sample Info: 680-89459-a-31-a

Instrument: BSMC5973.i

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD24020.D

Date: 24-APR-2013 18:11

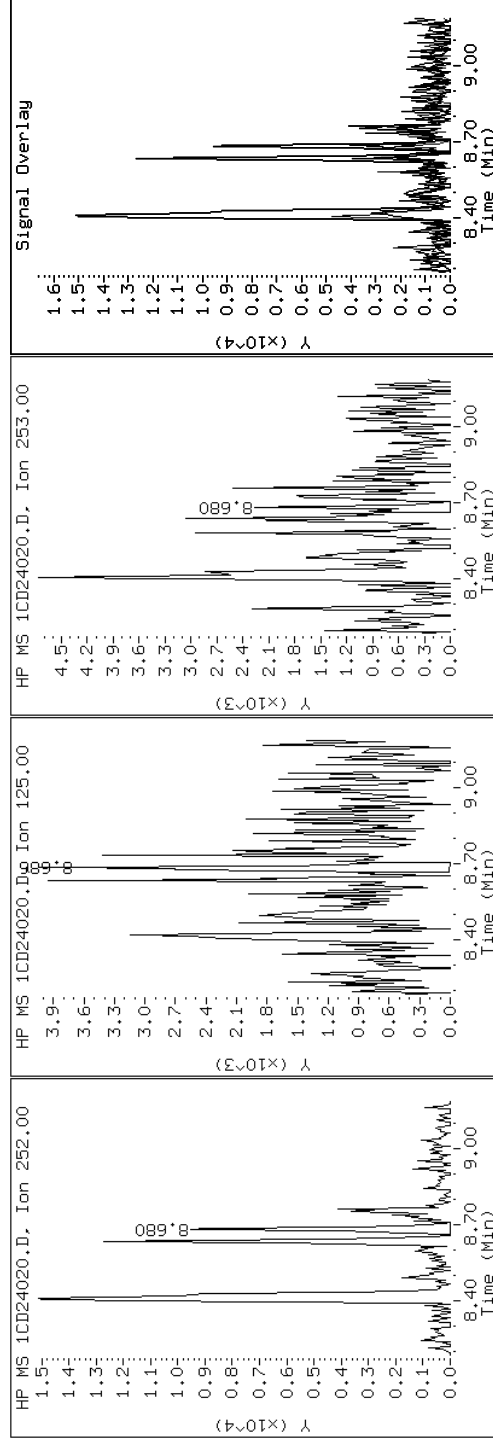
Client ID: CV1013A-CS-SP

Sample Info: 680-89459-a-31-a

22 Benzo(a)pyrene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD24020.D

Date: 24-APR-2013 18:11

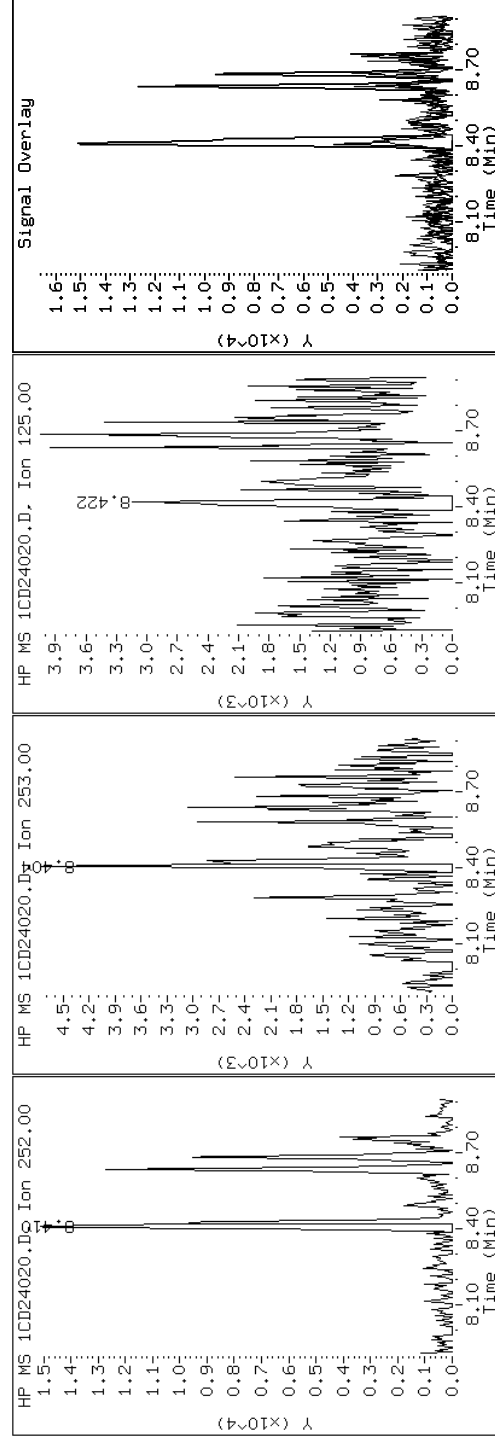
Client ID: CV1013A-CS-SP

Sample Info: 680-89459-a-31-a

Instrument: BSMC5973.i

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD24020.D

Date: 24-APR-2013 18:11

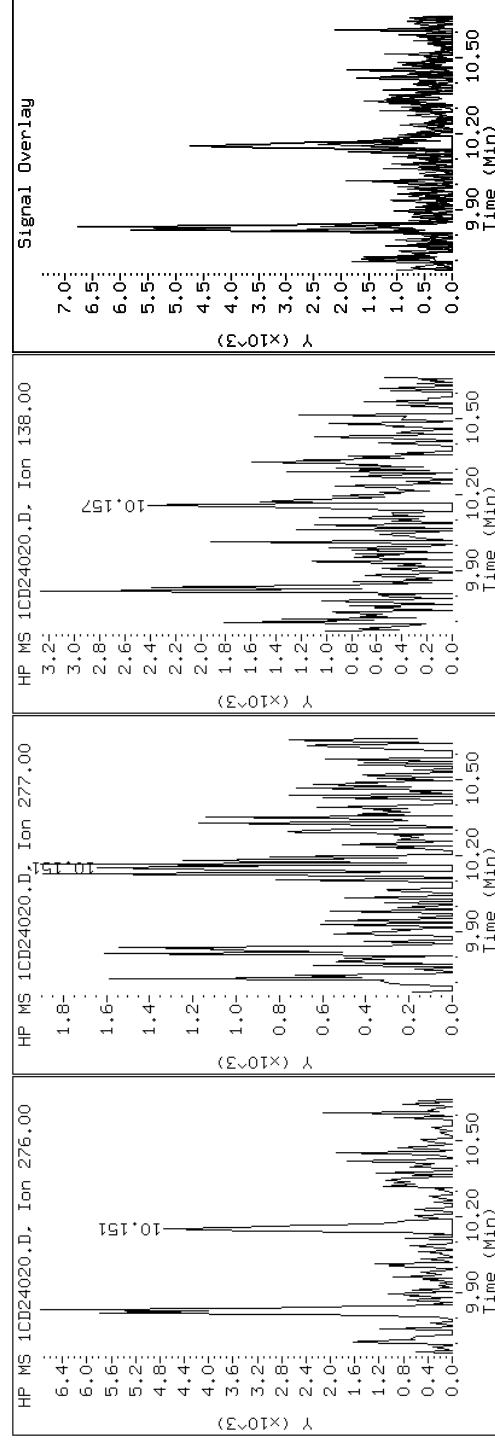
Client ID: CV1013A-CS-SP

Sample Info: 680-89459-a-31-a

Instrument: BSMC5973.i

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD24020.D

Date: 24-APR-2013 18:11

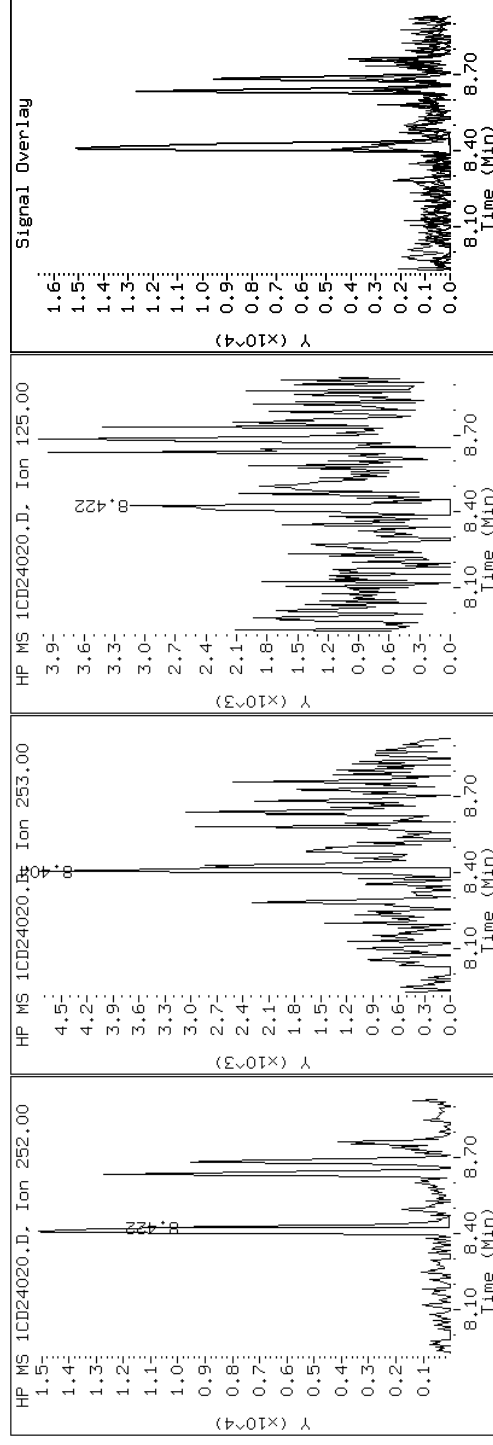
Client ID: CV1013A-CS-SP

Sample Info: 680-89459-a-31-a

Instrument: BSMC5973.i

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD24020.D

Date: 24-APR-2013 18:11

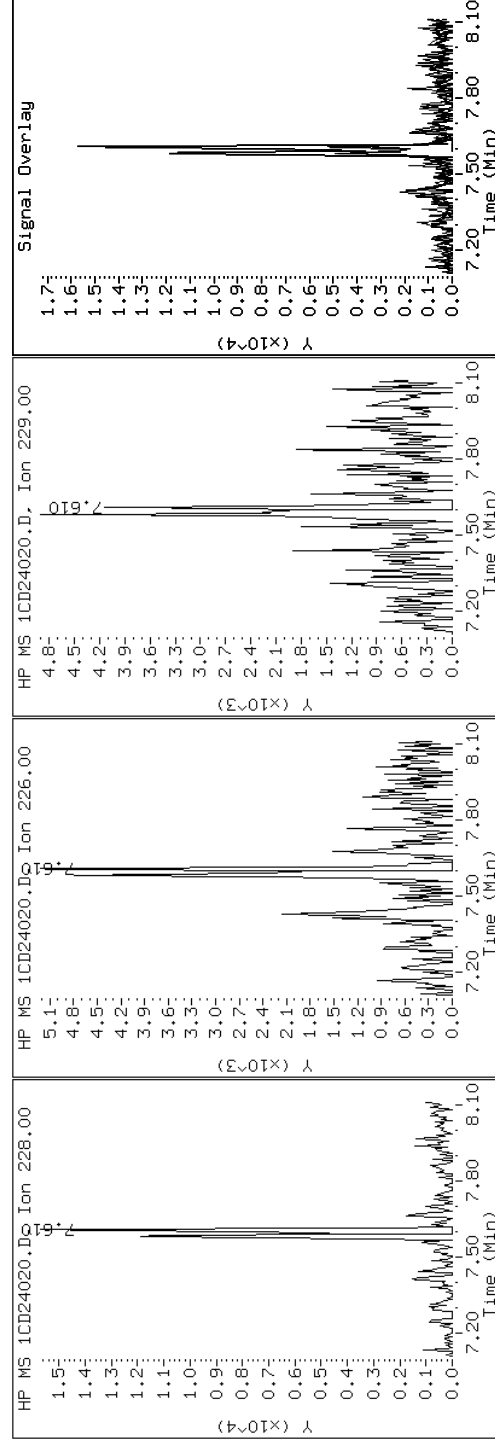
Client ID: CV1013A-CS-SP

Sample Info: 680-89459-a-31-a

19 Chrysene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD24020.D

Date: 24-APR-2013 18:11

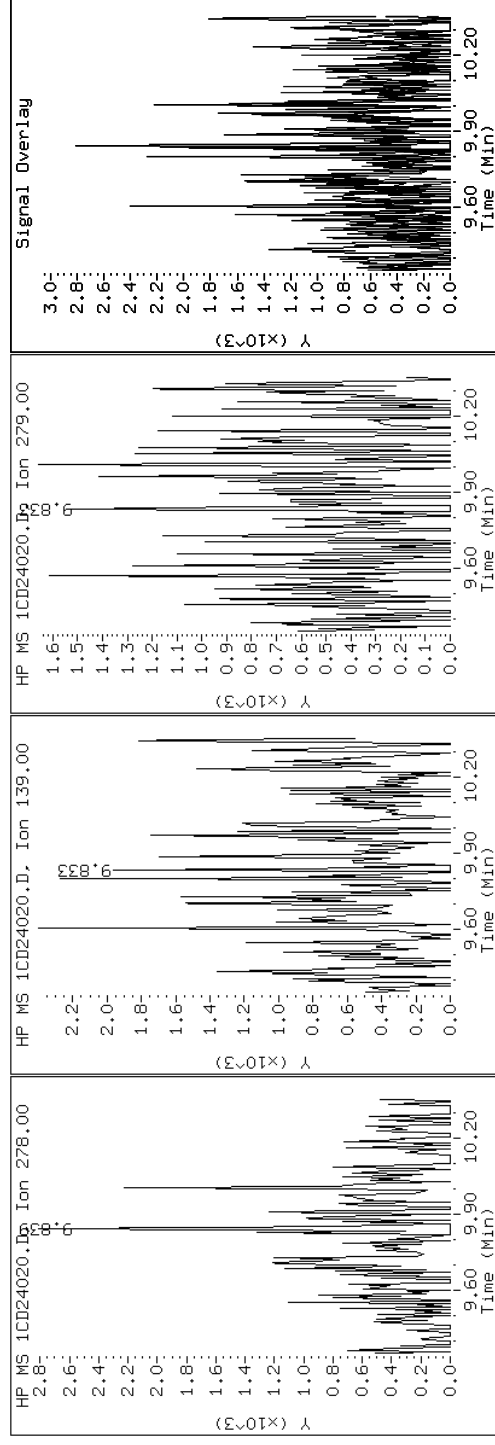
Client ID: CV1013A-CS-SP

Sample Info: 680-89459-a-31-a

Instrument: BSMC5973.i

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD24020.D

Date: 24-APR-2013 18:11

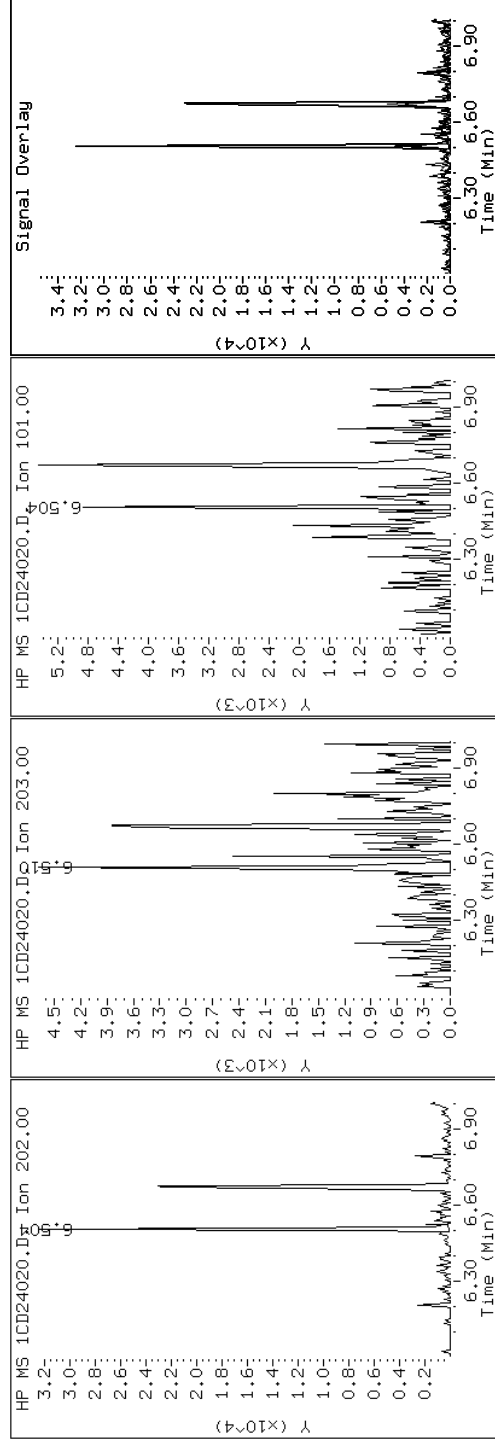
Client ID: CV1013A-CS-SP

Sample Info: 680-89459-a-31-a

15 Fluoranthene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD24020.D

Date: 24-APR-2013 18:11

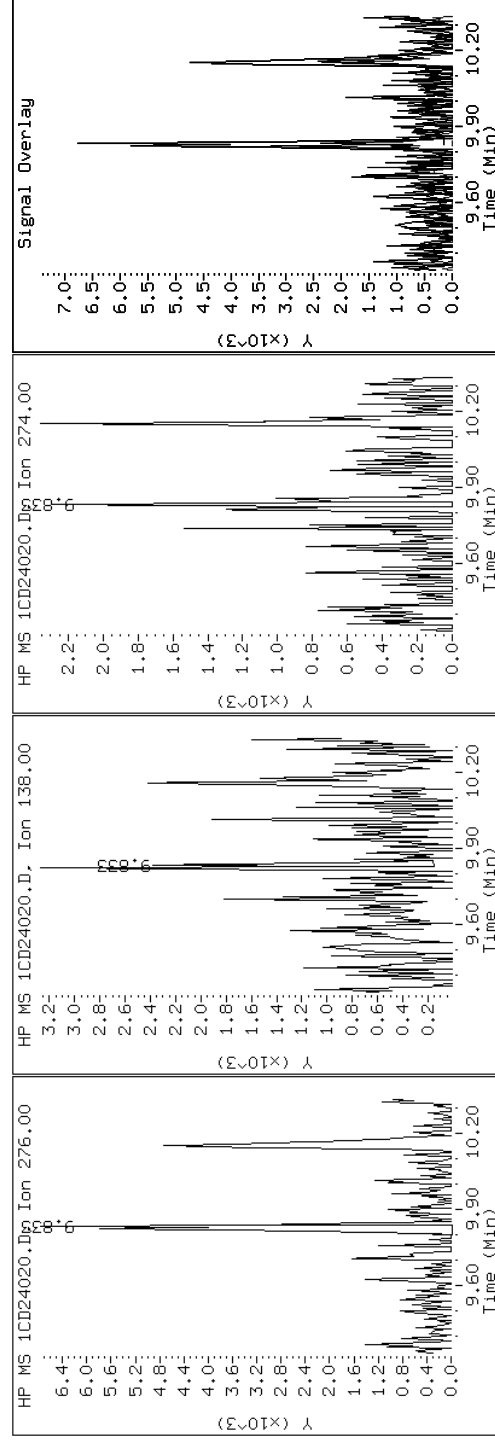
Client ID: CV1013A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89459-a-31-a

Operator: SCC

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



Data File: 1CD24020.D

Date: 24-APR-2013 18:11

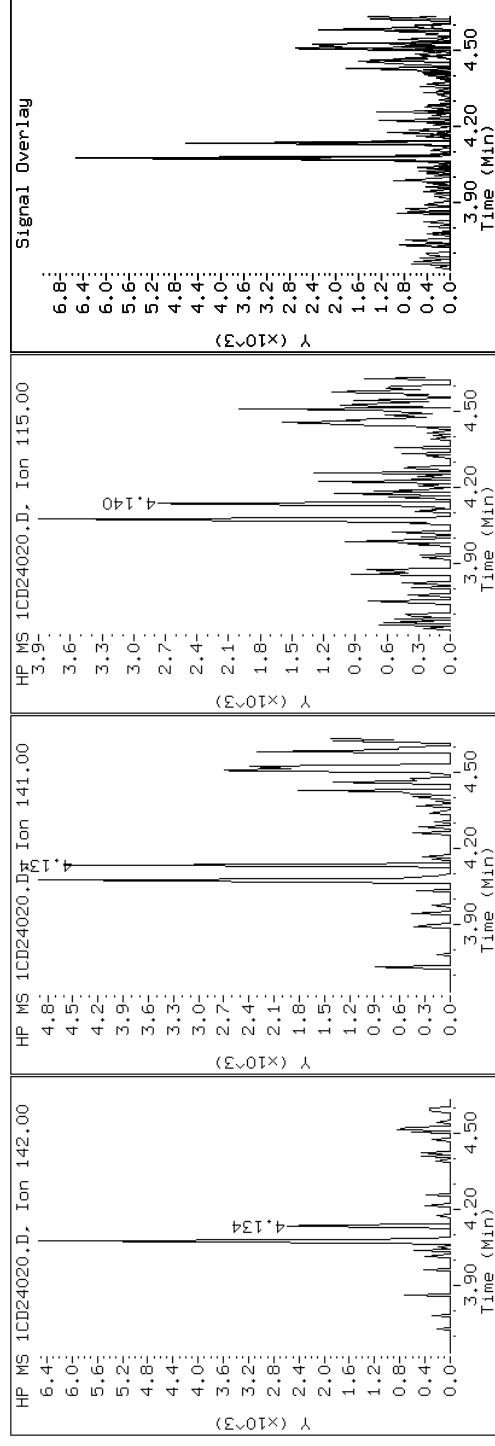
Client ID: CV1013A-CS-SP

Sample Info: 680-89459-a-31-a

Instrument: BSMC5973.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD24020.D

Date: 24-APR-2013 18:11

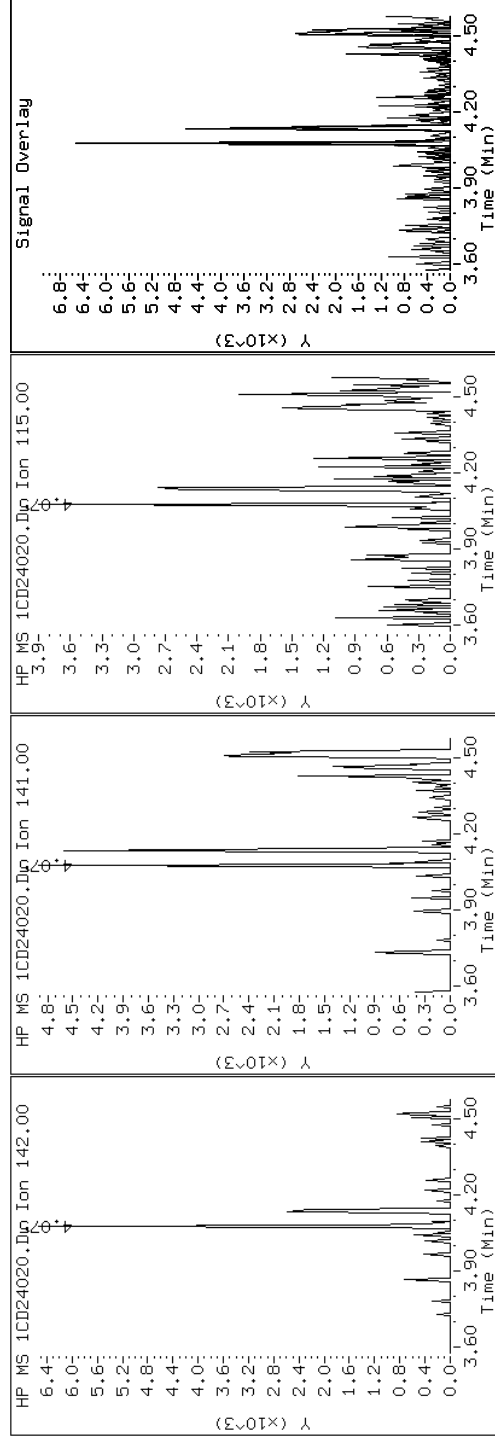
Client ID: CV1013A-CS-SP

Sample Info: 680-89459-a-31-a

Instrument: BSMC5973.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD24020.D

Date: 24-APR-2013 18:11

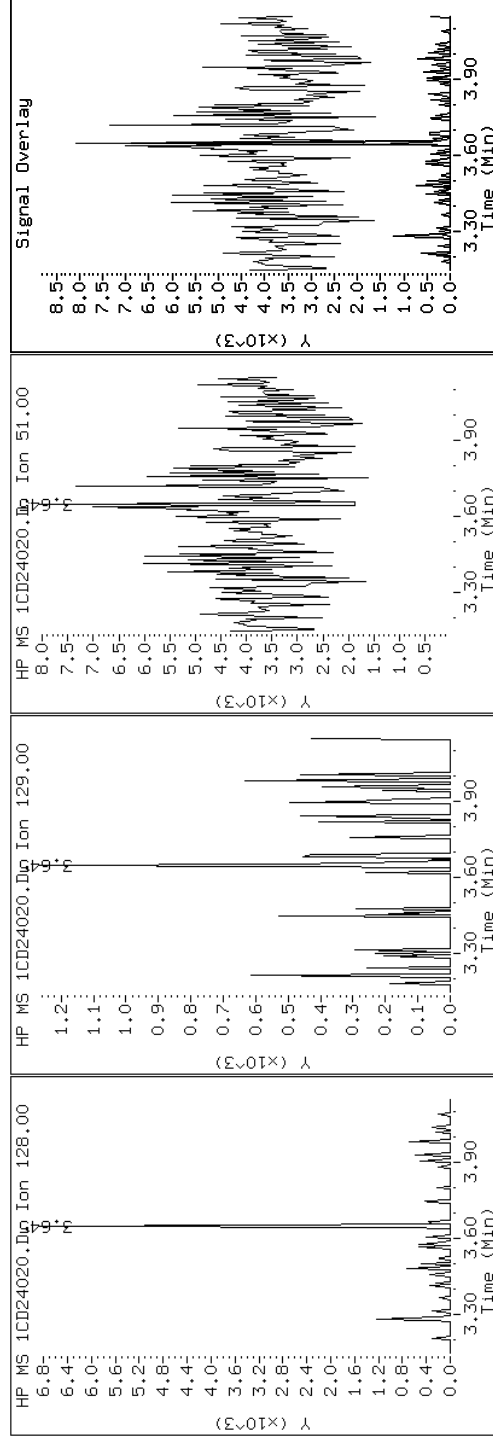
Client ID: CV1013A-CS-SP

Sample Info: 680-89459-a-31-a

2 Naphthalene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD24020.D

Date: 24-APR-2013 18:11

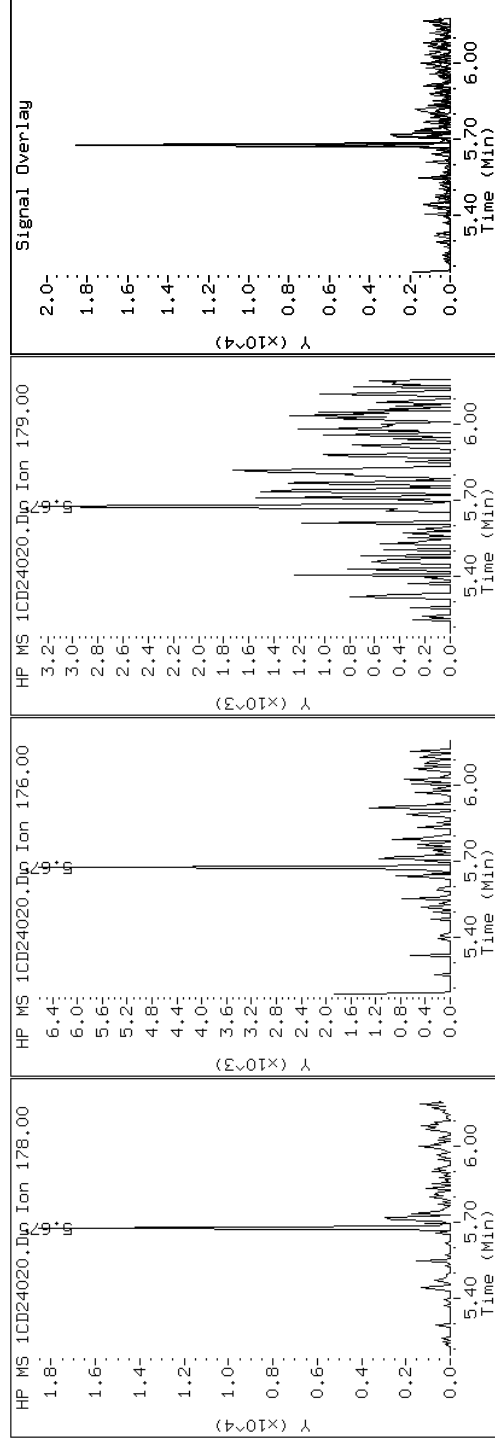
Client ID: CV1013A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89459-a-31-a

Operator: SCC

11 Phenanthrene



Data File: 1CD24020.D

Date: 24-APR-2013 18:11

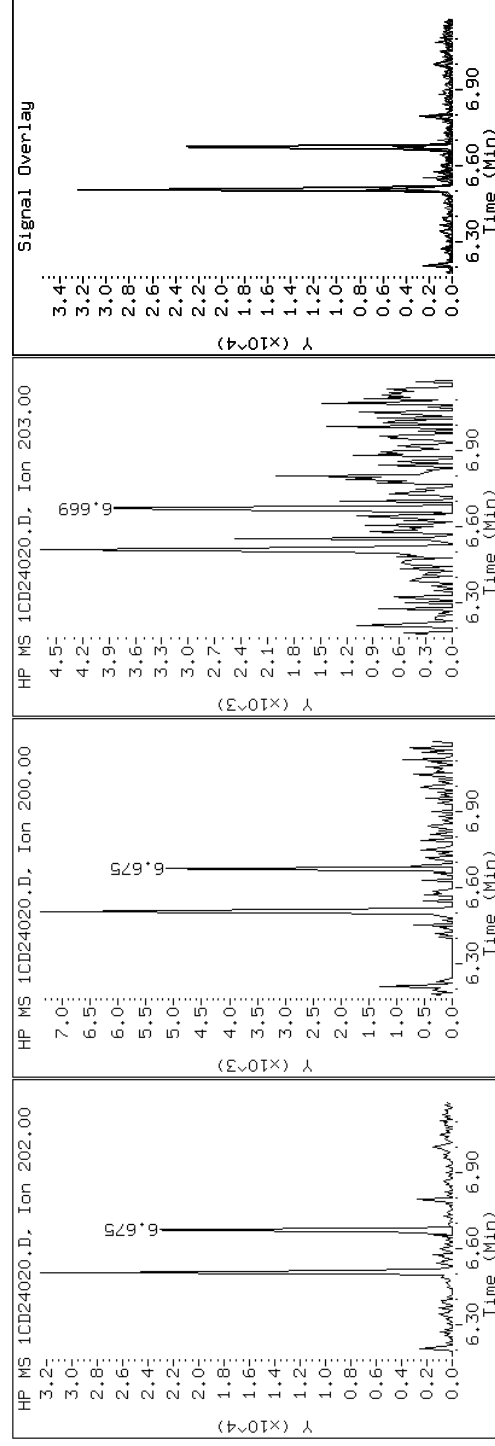
Client ID: CV1013A-CS-SP

Sample Info: 680-89459-a-31-a

16 Pyrene

Instrument: BSMC5973.i

Operator: SCC

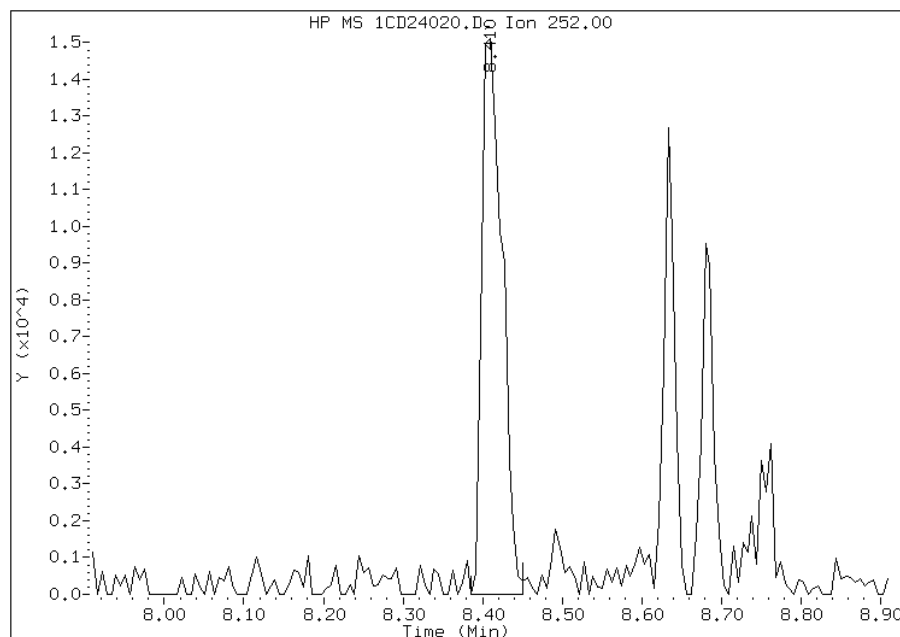


Manual Integration Report

Data File: 1CD24020.D
Inj. Date and Time: 24-APR-2013 18:11
Instrument ID: BSMC5973.i
Client ID: CV1013A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/25/2013

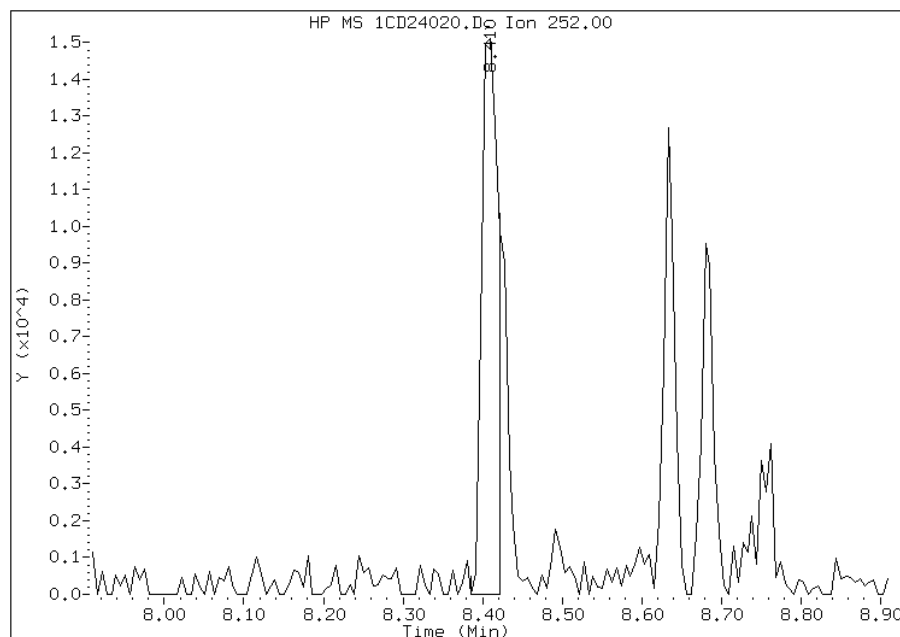
Processing Integration Results

RT: 8.41
Response: 26825
Amount: 4
Conc: 361



Manual Integration Results

RT: 8.41
Response: 21376
Amount: 4
Conc: 287



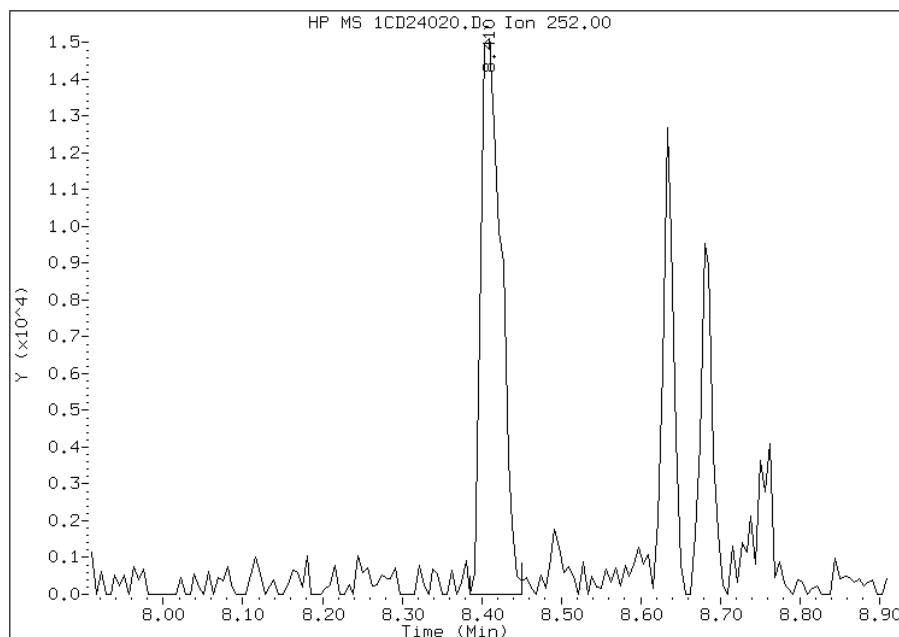
Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:38
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD24020.D
Inj. Date and Time: 24-APR-2013 18:11
Instrument ID: BSMC5973.i
Client ID: CV1013A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/25/2013

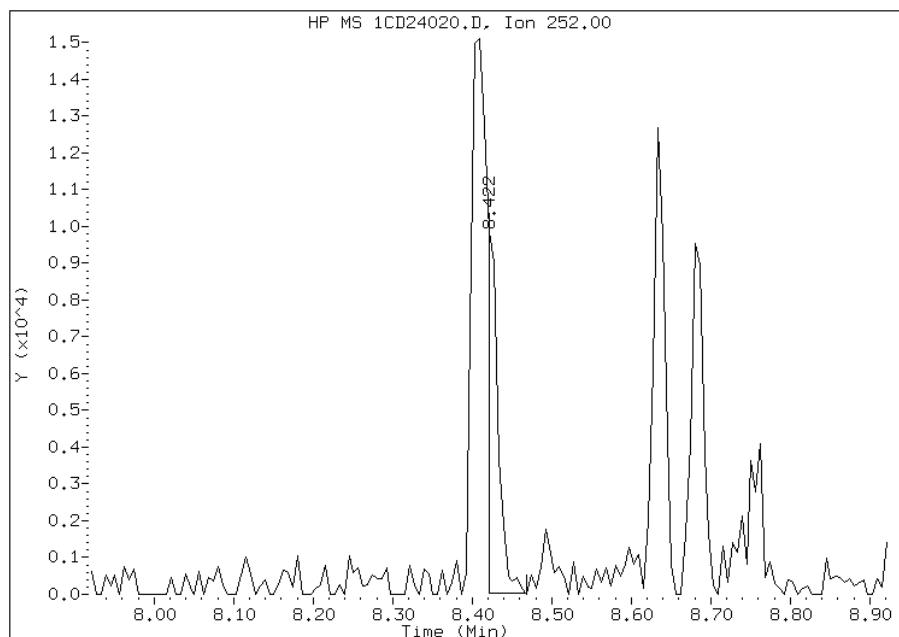
Processing Integration Results

RT: 8.41
Response: 26825
Amount: 5
Conc: 371



Manual Integration Results

RT: 8.42
Response: 9055
Amount: 2
Conc: 125



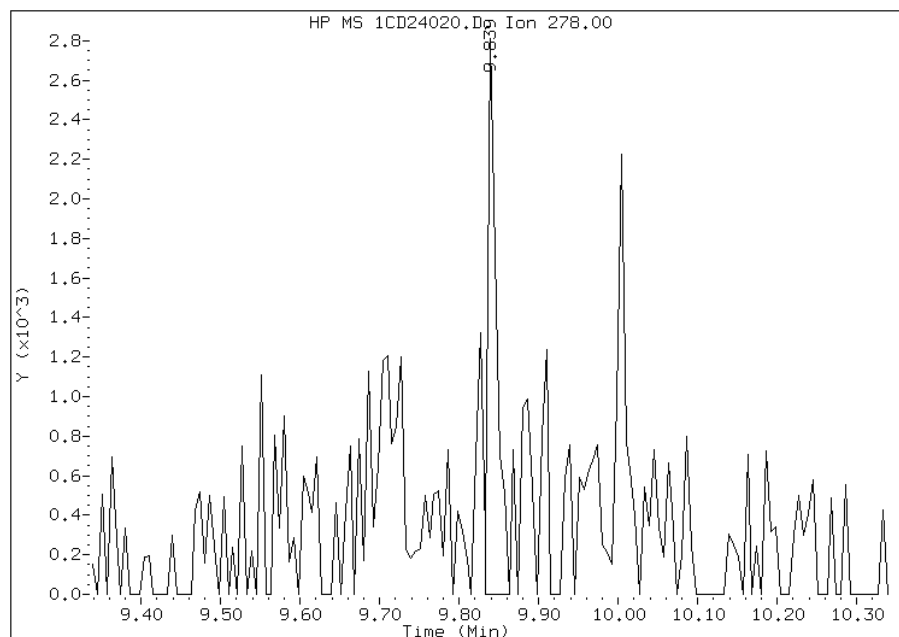
Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24020.D
Inj. Date and Time: 24-APR-2013 18:11
Instrument ID: BSMC5973.i
Client ID: CV1013A-CS-SP
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/25/2013

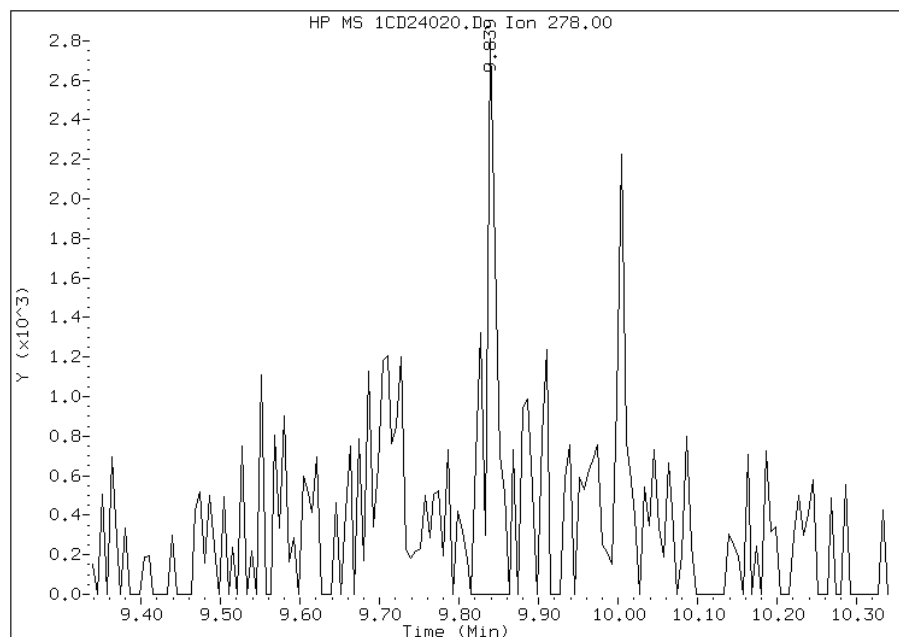
Processing Integration Results

RT: 9.84
Response: 2132
Amount: 0
Conc: 33



Manual Integration Results

RT: 9.84
Response: 2842
Amount: 1
Conc: 44



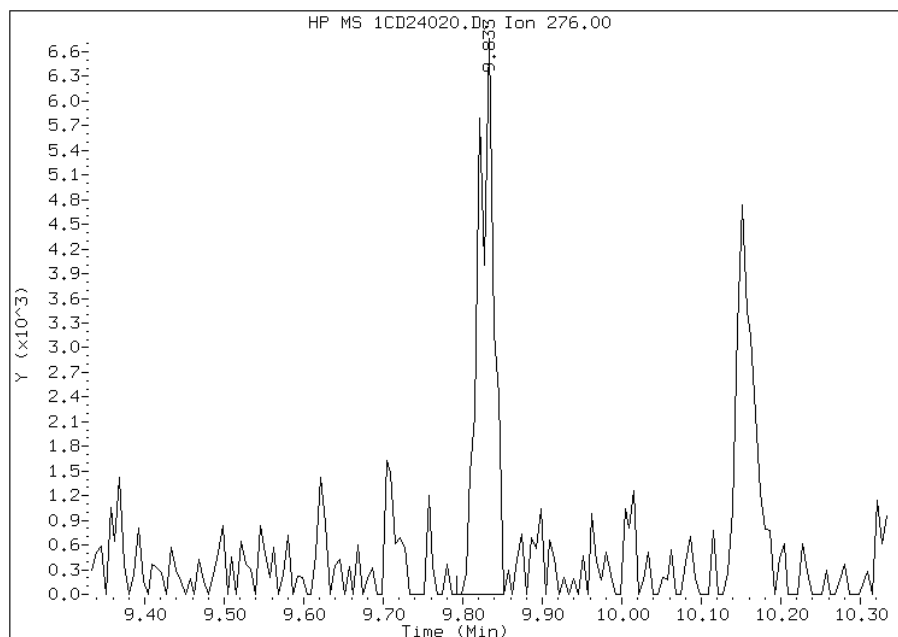
Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:39
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24020.D
Inj. Date and Time: 24-APR-2013 18:11
Instrument ID: BSMC5973.i
Client ID: CV1013A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

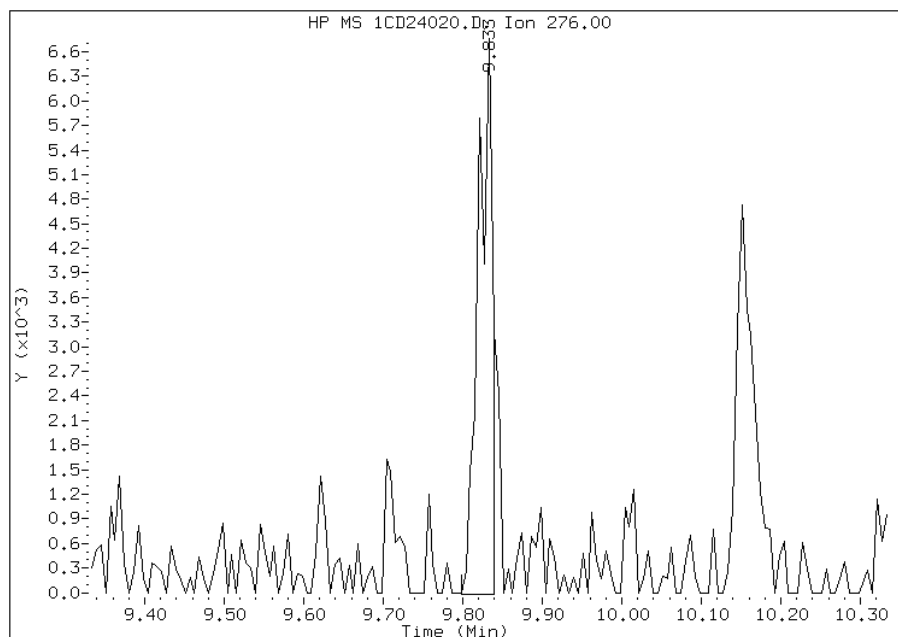
Processing Integration Results

RT: 9.83
Response: 9209
Amount: 2
Conc: 174



Manual Integration Results

RT: 9.83
Response: 8413
Amount: 2
Conc: 163



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:39
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-2</u>
SDG No.: <u>68089459-2</u>	
Client Sample ID: <u>CV1013B-CS-SP</u>	Lab Sample ID: <u>680-89459-32</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD24021.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 14:00</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/23/2013 10:36</u>
Sample wt/vol: <u>14.89(g)</u>	Date Analyzed: <u>04/24/2013 18:29</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>25.6</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136792</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	55	J	140	27
208-96-8	Acenaphthylene	69		54	6.8
120-12-7	Anthracene	89		11	5.7
56-55-3	Benzo[a]anthracene	1100		11	5.3
50-32-8	Benzo[a]pyrene	1400		14	7.0
205-99-2	Benzo[b]fluoranthene	2900		17	8.3
191-24-2	Benzo[g,h,i]perylene	1600		27	6.0
207-08-9	Benzo[k]fluoranthene	930		11	4.9
218-01-9	Chrysene	1300		12	6.1
53-70-3	Dibenz(a,h)anthracene	550		27	5.6
206-44-0	Fluoranthene	1100		27	5.4
86-73-7	Fluorene	52		27	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	1100		27	9.6
90-12-0	1-Methylnaphthalene	56		54	6.0
91-57-6	2-Methylnaphthalene	110		54	9.6
91-20-3	Naphthalene	83		54	6.0
85-01-8	Phenanthrene	590		11	5.3
129-00-0	Pyrene	1100		27	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	65		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24021.D
Lab Smp Id: 680-89459-A-32-A Client Smp ID: CV1013B-CS-SP
Inj Date : 24-APR-2013 18:29
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89459-a-32-a
Misc Info : 680-89459-A-32-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{V_i} * \frac{V_t}{W_s} * \frac{100}{(100 - M)} * A * B * C * D * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.890	Weight Extracted
M	25.602	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		3.633	3.634	(1.000)		154225	40.0000	
* 6 Acenaphthene-d10	164		4.721	4.722	(1.000)		108245	40.0000	
* 10 Phenanthrene-d10	188		5.663	5.663	(1.000)		204759	40.0000	
\$ 14 o-Terphenyl	230		5.910	5.910	(1.044)		19361	6.51254	587.8859
* 18 Chrysene-d12	240		7.592	7.592	(1.000)		238020	40.0000	
* 23 Perylene-d12	264		8.733	8.733	(1.000)		226719	40.0000	
2 Naphthalene	128		3.645	3.646	(1.003)		3748	0.91920	82.9757(Q)
3 2-Methylnaphthalene	142		4.074	4.075	(1.121)		1804	1.20367	108.6554
4 1-Methylnaphthalene	142		4.133	4.134	(1.138)		1392	0.61546	55.5578
5 Acenaphthylene	152		4.633	4.634	(0.981)		1975	0.76750	69.2818
7 Acenaphthene	154		4.745	4.740	(1.005)		1785	0.60752	54.8402(Q)
9 Fluorene	166		5.063	5.057	(1.072)		2170	0.58115	52.4603(Q)
11 Phenanthrene	178		5.674	5.675	(1.002)		36704	6.54684	590.9820
12 Anthracene	178		5.710	5.710	(1.008)		5174	0.98373	88.8013

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
13 Carbazole	167	5.821	5.822	(1.028)	3677	0.65251	58.9017
15 Fluoranthene	202	6.504	6.504	(1.149)	83875	12.3666	1116.3349
16 Pyrene	202	6.674	6.675	(0.879)	85495	12.1622	1097.8821
17 Benzo(a)anthracene	228	7.580	7.581	(0.998)	73612	11.7591	1061.4899
19 Chrysene	228	7.609	7.610	(1.002)	95150	13.9992	1263.7096
20 Benzo(b)fluoranthene	252	8.409	8.410	(0.963)	203122	32.3940	2924.2050(M)
21 Benzo(k)fluoranthene	252	8.427	8.428	(0.965)	63027	10.3305	932.5324(QM)
22 Benzo(a)pyrene	252	8.680	8.686	(0.994)	96841	15.7842	1424.8360
24 Indeno(1,2,3-cd)pyrene	276	9.827	9.833	(1.125)	71944	12.0317	1086.1008(M)
25 Dibenzo(a,h)anthracene	278	9.839	9.851	(1.127)	33623	6.11592	552.0830
26 Benzo(g,h,i)perylene	276	10.162	10.163	(1.164)	98563	17.2175	1554.2200

QC Flag Legend

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

Data File: 1CD24021.D

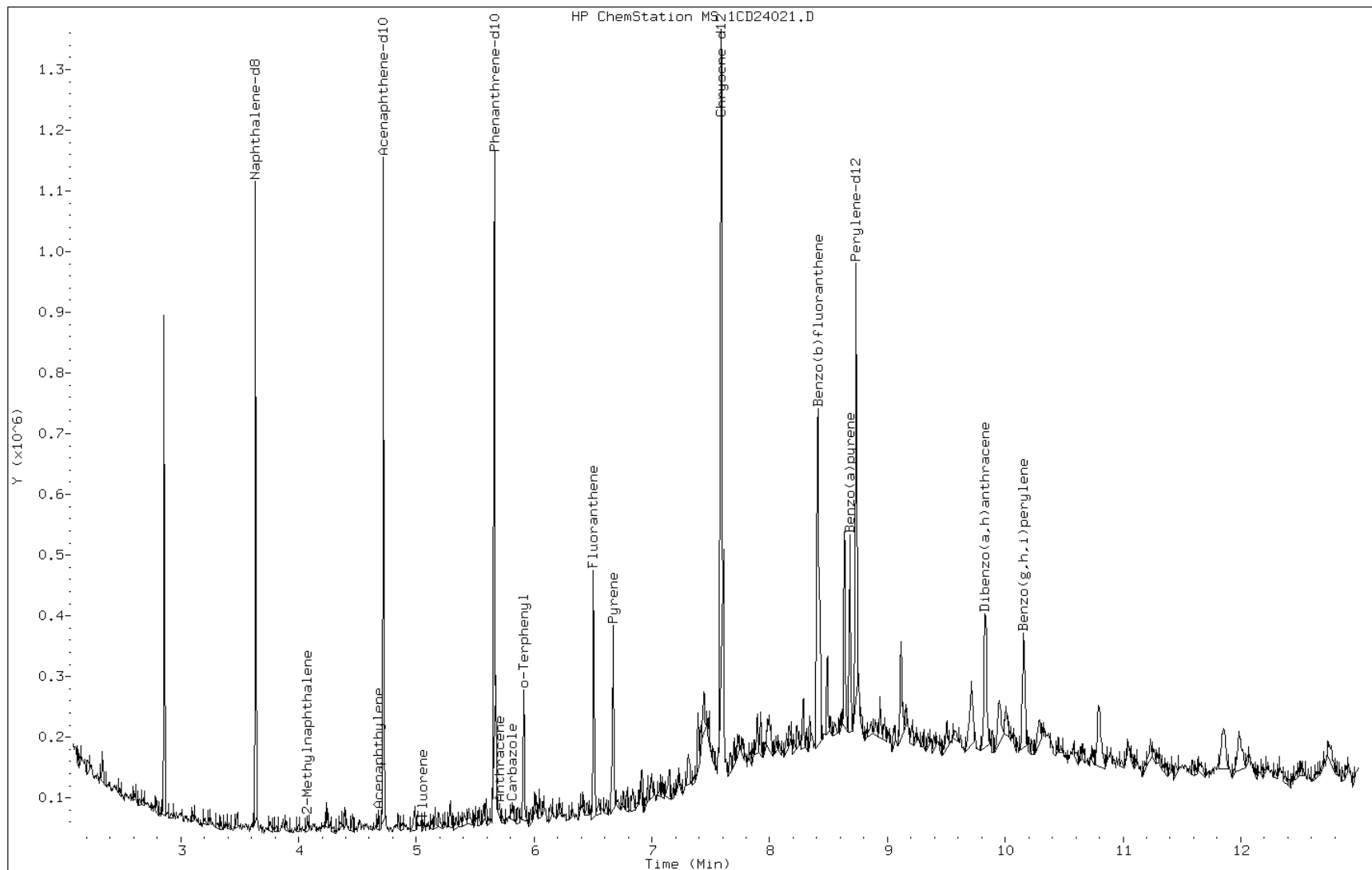
Date: 24-APR-2013 18:29

Client ID: CV1013B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89459-a-32-a

Operator: SCC



Data File: 1CD24021.D

Date: 24-APR-2013 18:29

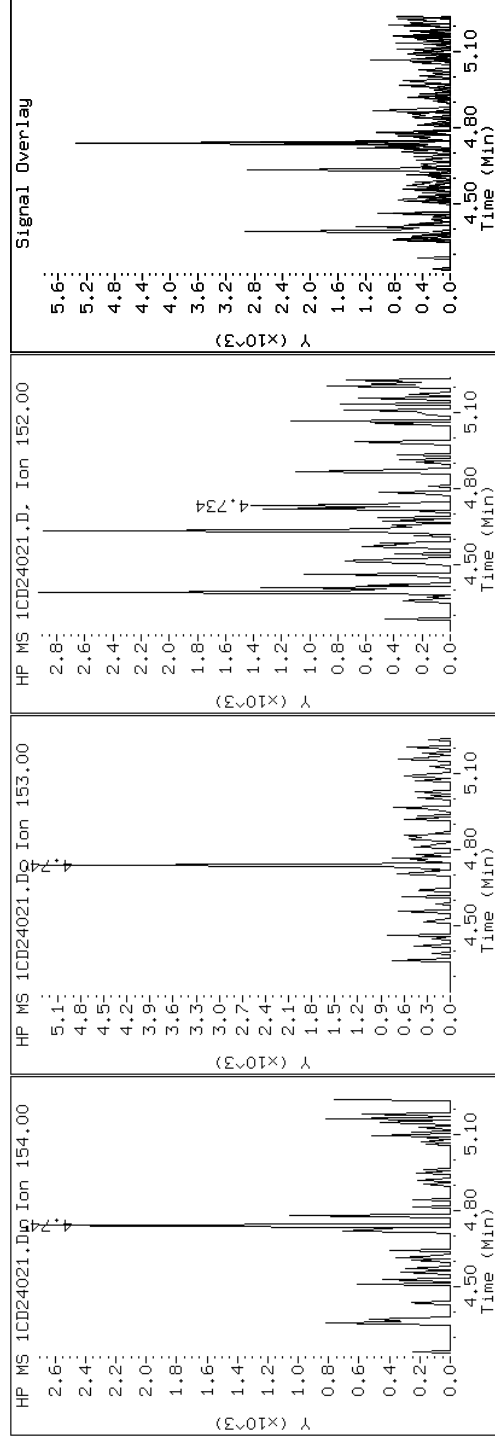
Client ID: CV1013B-CS-SP

Sample Info: 680-89459-a-32-a

Instrument: BSMC5973.i

Operator: SCC

7 Acenaphthene



Data File: 1CD24021.D

Date: 24-APR-2013 18:29

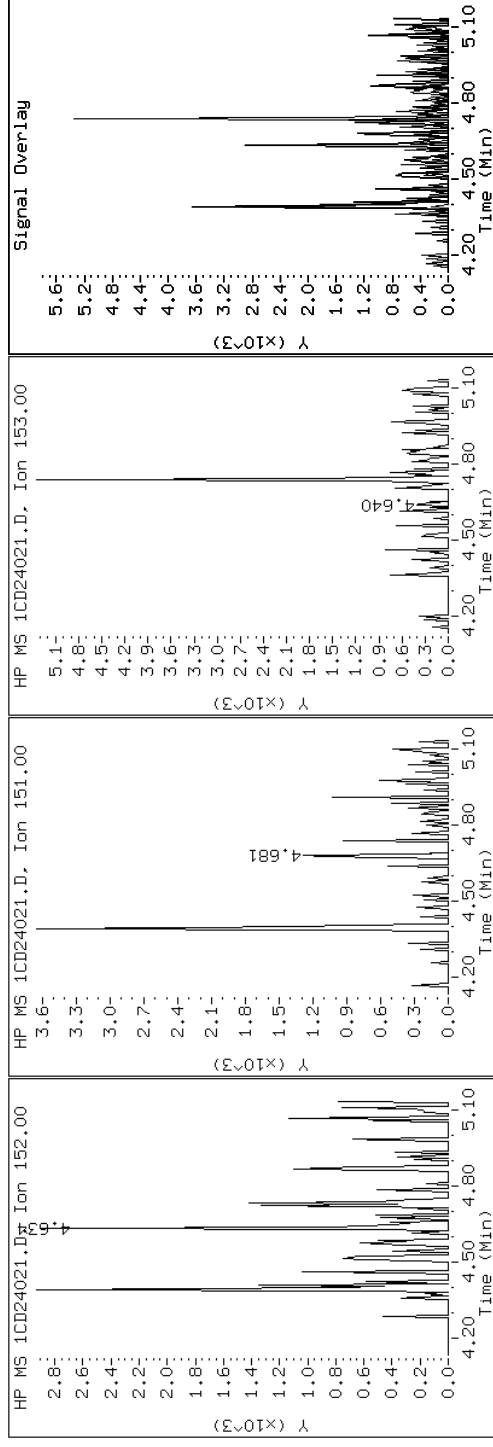
Client ID: CV1013B-CS-SP

Sample Info: 680-89459-a-32-a

Instrument: BSMC5973.i

Operator: SCC

5 Acenaphthylene



Data File: 1CD24021.D

Date: 24-APR-2013 18:29

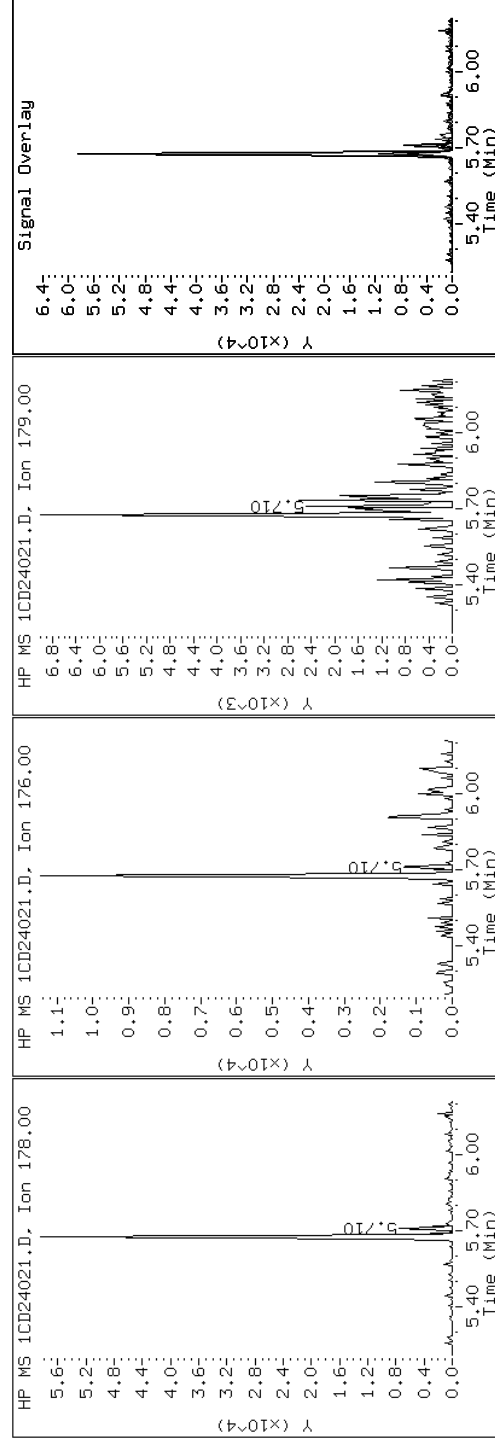
Client ID: CV1013B-CS-SP

Sample Info: 680-89459-a-32-a

12 Anthracene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD24021.D

Date: 24-APR-2013 18:29

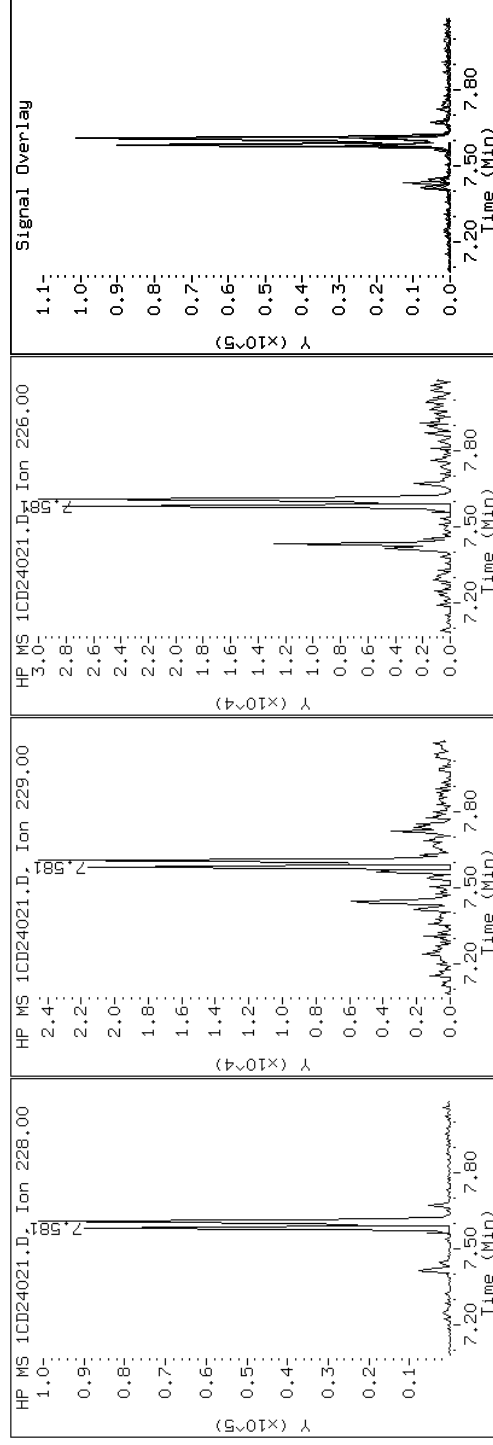
Client ID: CV1013B-CS-SP

Sample Info: 680-89459-a-32-a

Instrument: BSMC5973.i

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD24021.D

Date: 24-APR-2013 18:29

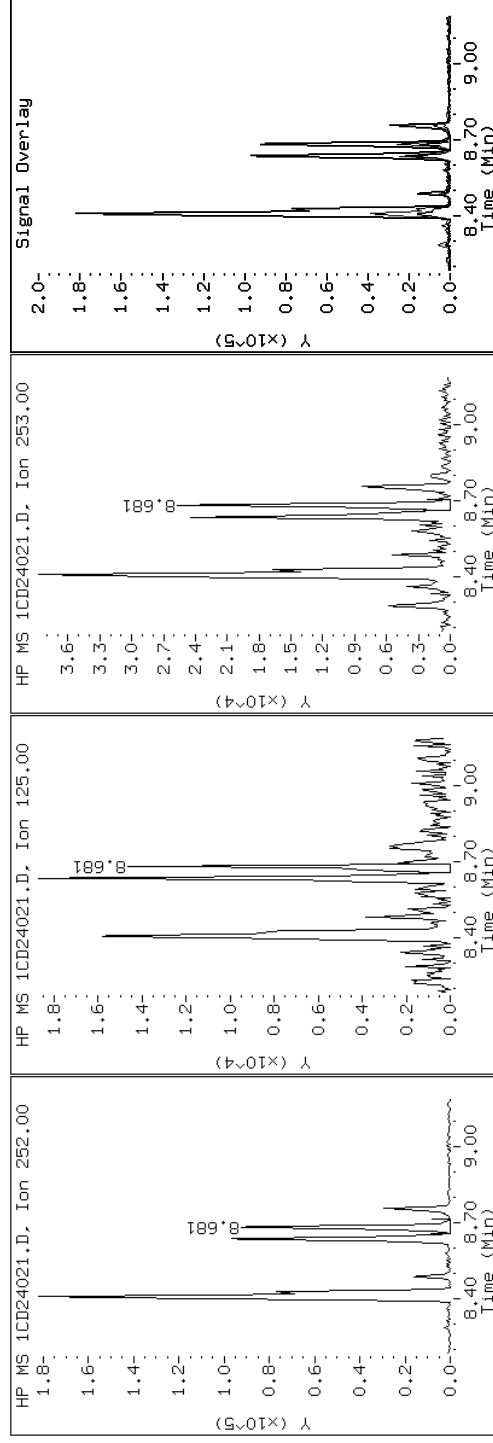
Client ID: CV1013B-CS-SP

Sample Info: 680-89459-a-32-a

Instrument: BSMC5973.i

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD24021.D

Date: 24-APR-2013 18:29

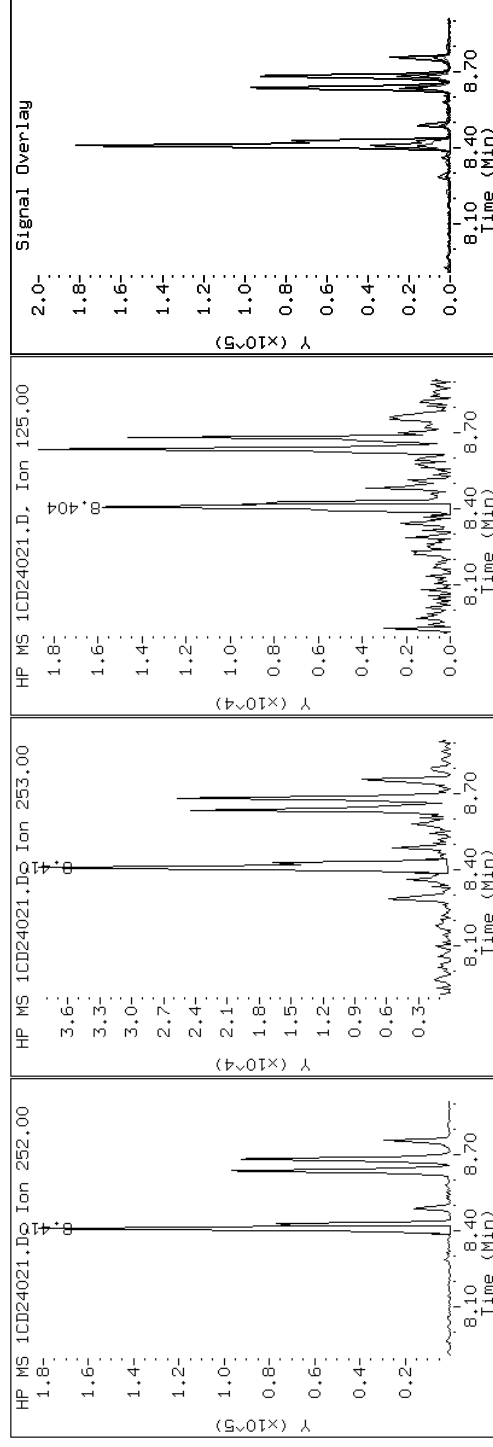
Client ID: CV1013B-CS-SP

Sample Info: 680-89459-a-32-a

Instrument: BSMC5973.i

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD24021.D

Date: 24-APR-2013 18:29

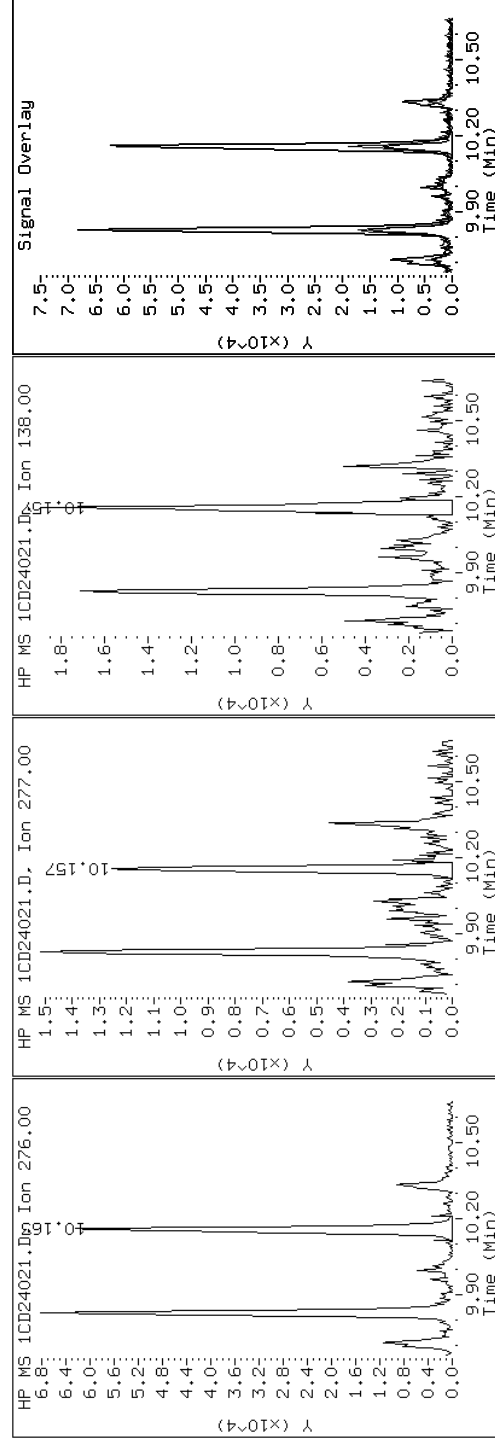
Client ID: CV1013B-CS-SP

Sample Info: 680-89459-a-32-a

Instrument: BSMC5973.i

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD24021.D

Date: 24-APR-2013 18:29

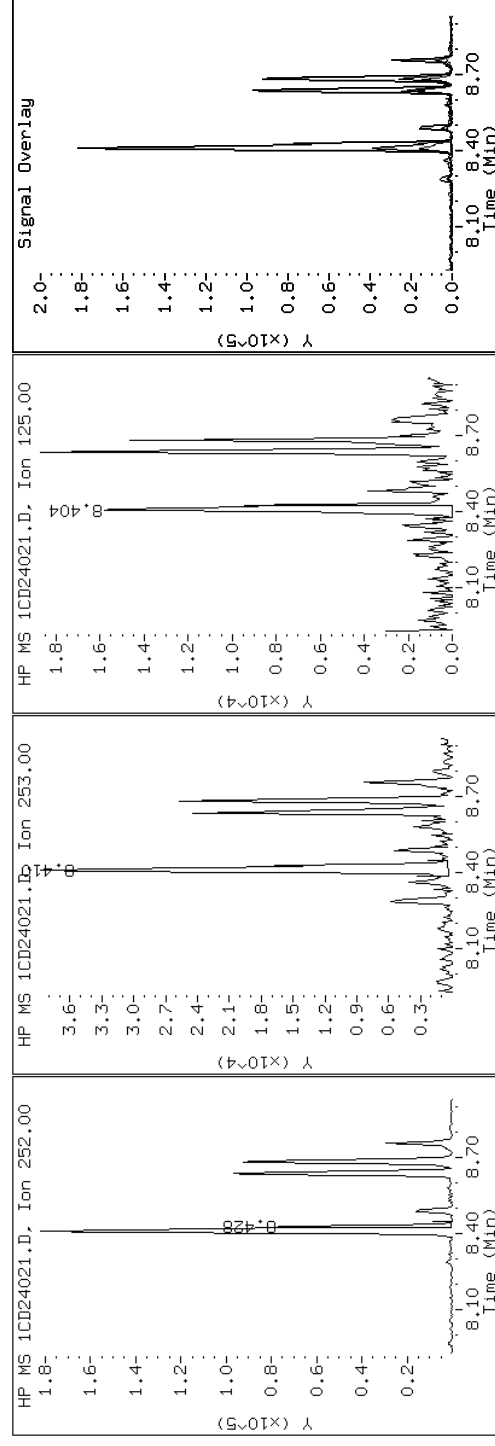
Client ID: CV1013B-CS-SP

Sample Info: 680-89459-a-32-a

Instrument: BSMC5973.i

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD24021.D

Date: 24-APR-2013 18:29

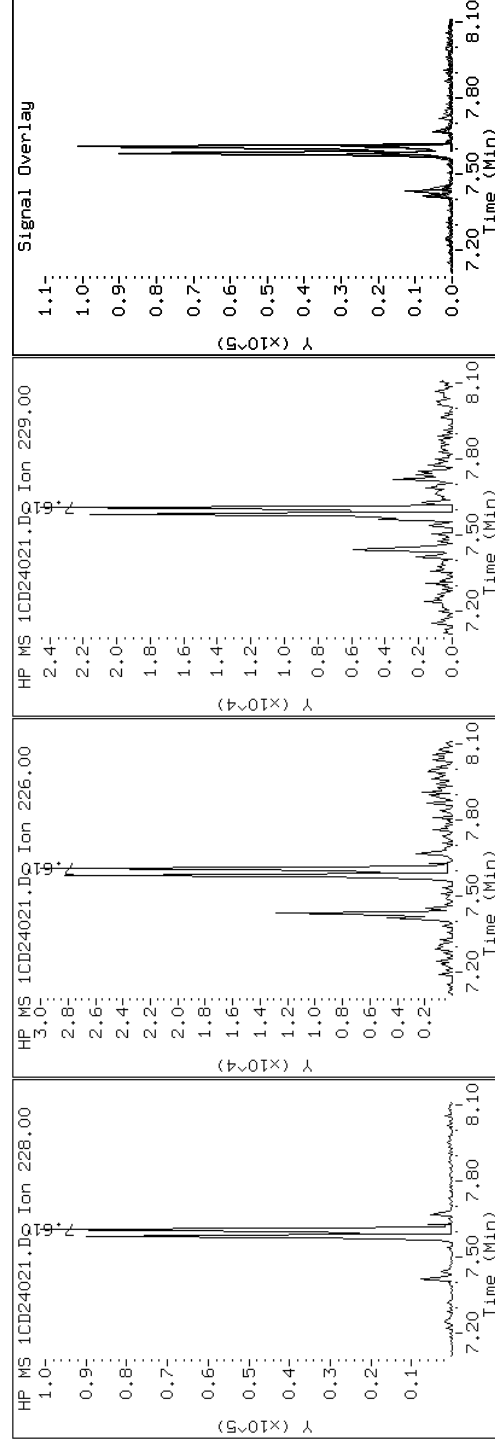
Client ID: CV1013B-CS-SP

Sample Info: 680-89459-a-32-a

19 Chrysene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD24021.D

Date: 24-APR-2013 18:29

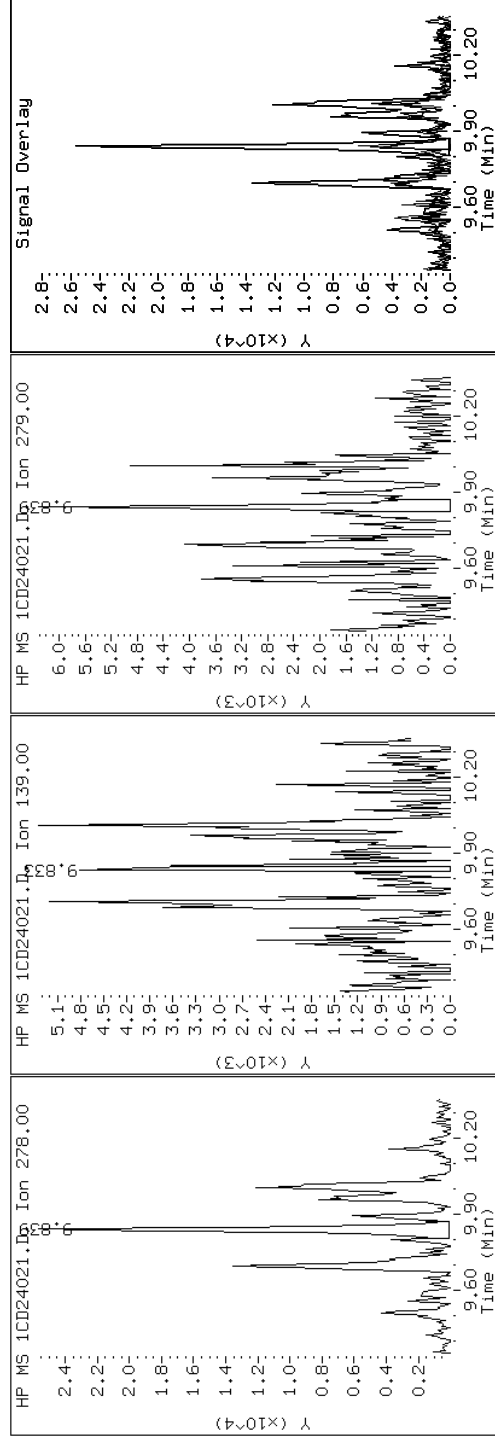
Client ID: CV1013B-CS-SP

Sample Info: 680-89459-a-32-a

Instrument: BSMC5973.i

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD24021.D

Date: 24-APR-2013 18:29

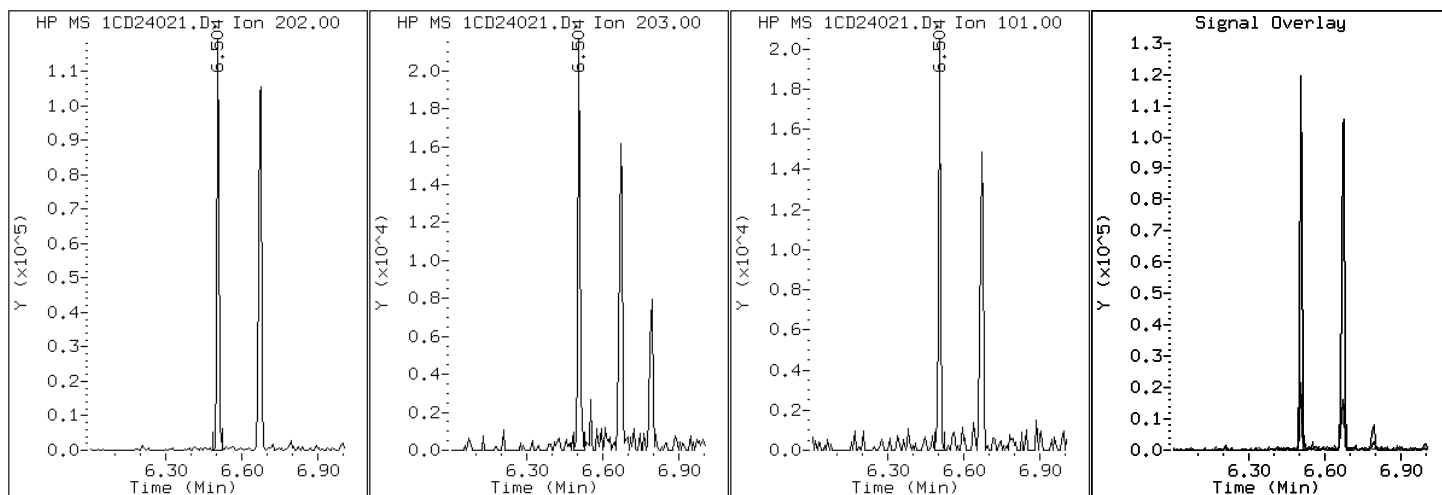
Client ID: CV1013B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89459-a-32-a

Operator: SCC

15 Fluoranthene



Data File: 1CD24021.D

Date: 24-APR-2013 18:29

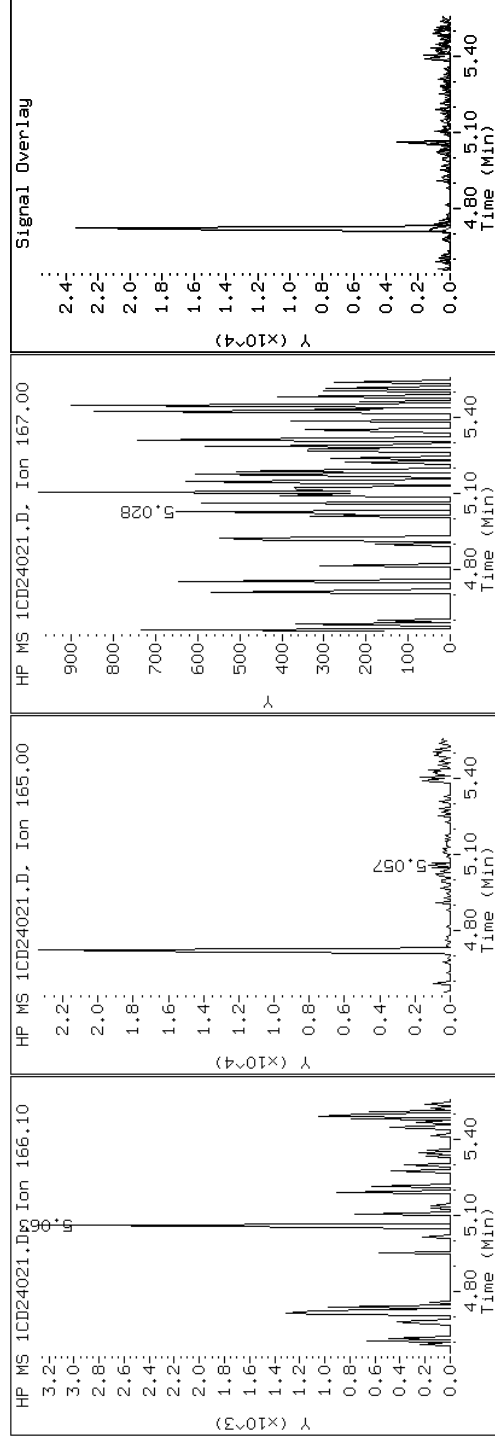
Client ID: CV1013B-CS-SP

Sample Info: 680-89459-a-32-a

Instrument: BSMC5973.i

Operator: SCC

9 Fluorene



Data File: 1CD24021.D

Date: 24-APR-2013 18:29

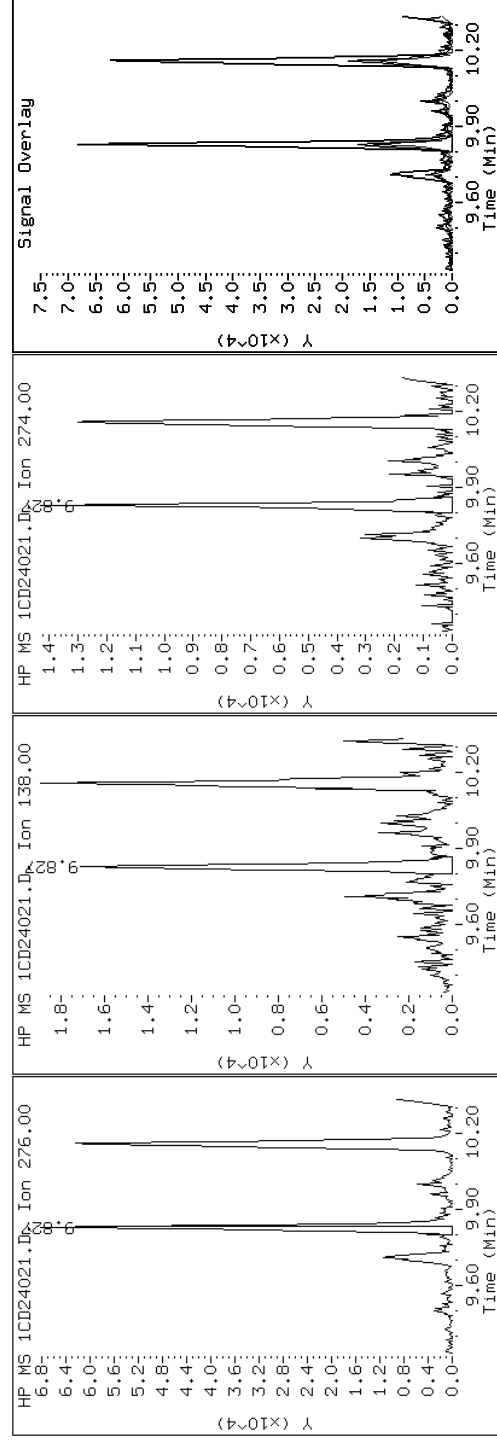
Client ID: CV1013B-CS-SP

Sample Info: 680-89459-a-32-a

Instrument: BSMC5973.i

Operator: SCC

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



Data File: 1CD24021.D

Date: 24-APR-2013 18:29

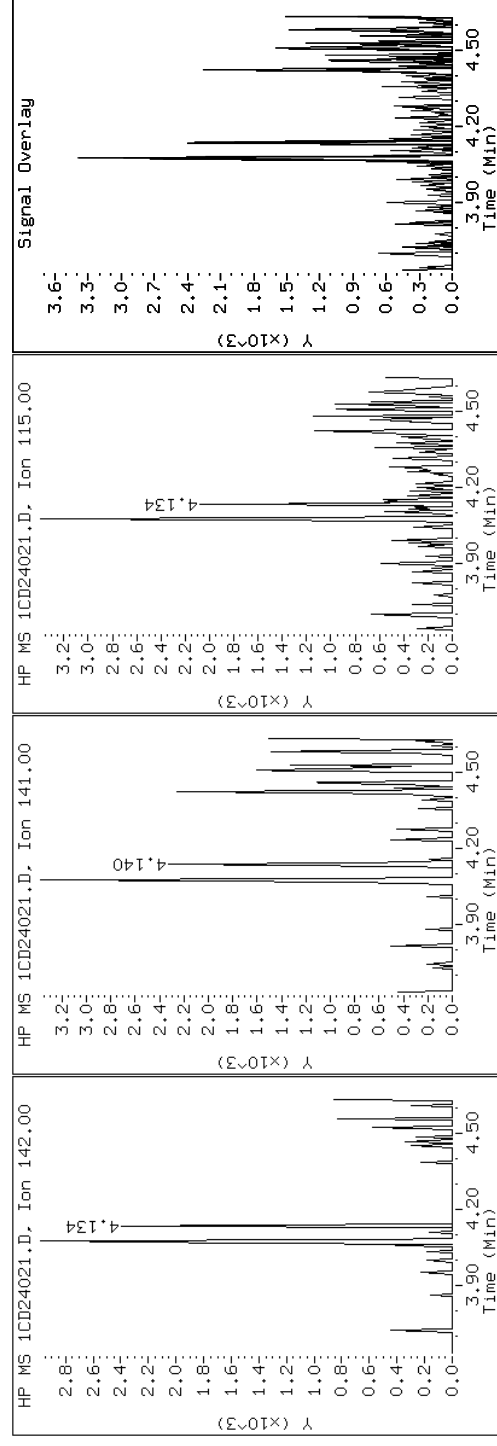
Client ID: CV1013B-CS-SP

Sample Info: 680-89459-a-32-a

Instrument: BSMC5973.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD24021.D

Date: 24-APR-2013 18:29

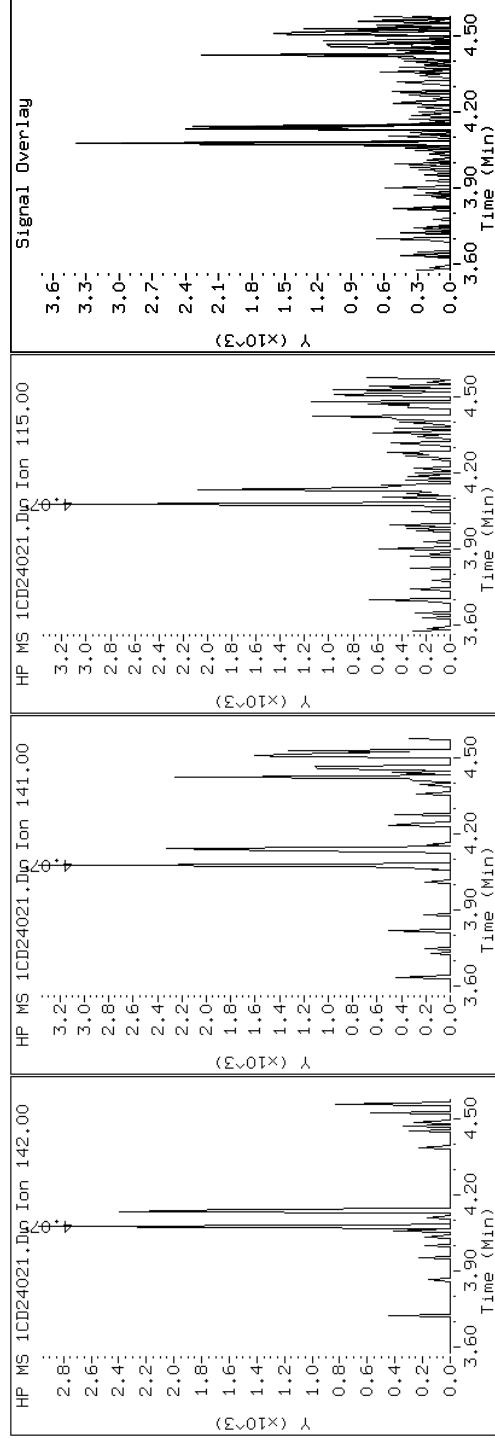
Client ID: CV1013B-CS-SP

Sample Info: 680-89459-a-32-a

Instrument: BSMC5973.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD24021.D

Date: 24-APR-2013 18:29

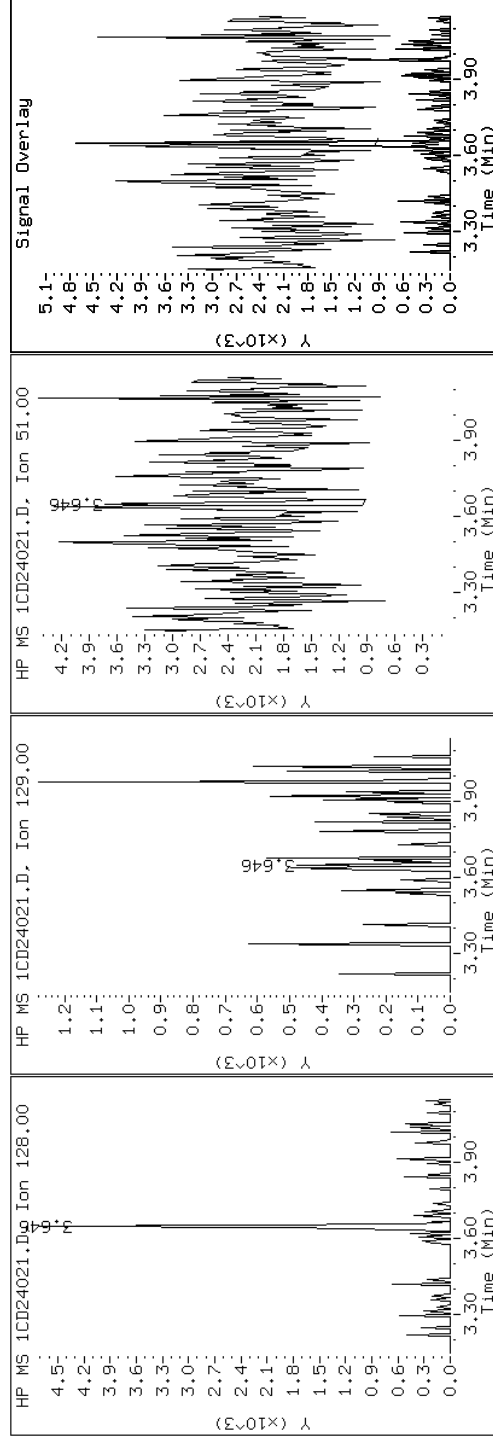
Client ID: CV1013B-CS-SP

Sample Info: 680-89459-a-32-a

2 Naphthalene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD24021.D

Date: 24-APR-2013 18:29

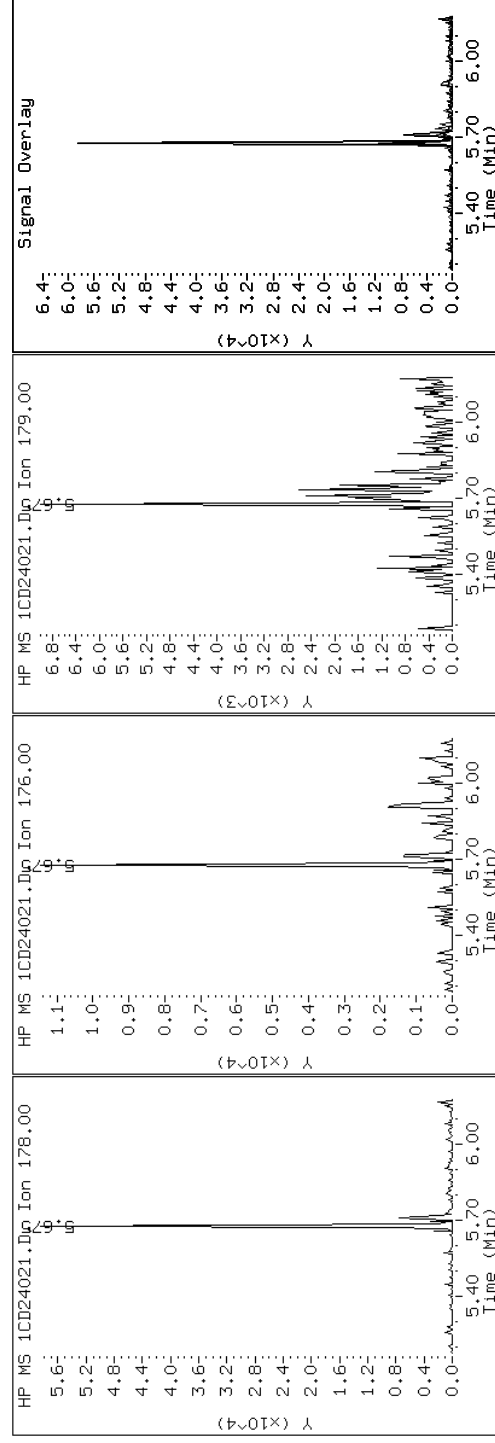
Client ID: CV1013B-CS-SP

Sample Info: 680-89459-a-32-a

11 Phenanthrene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD24021.D

Date: 24-APR-2013 18:29

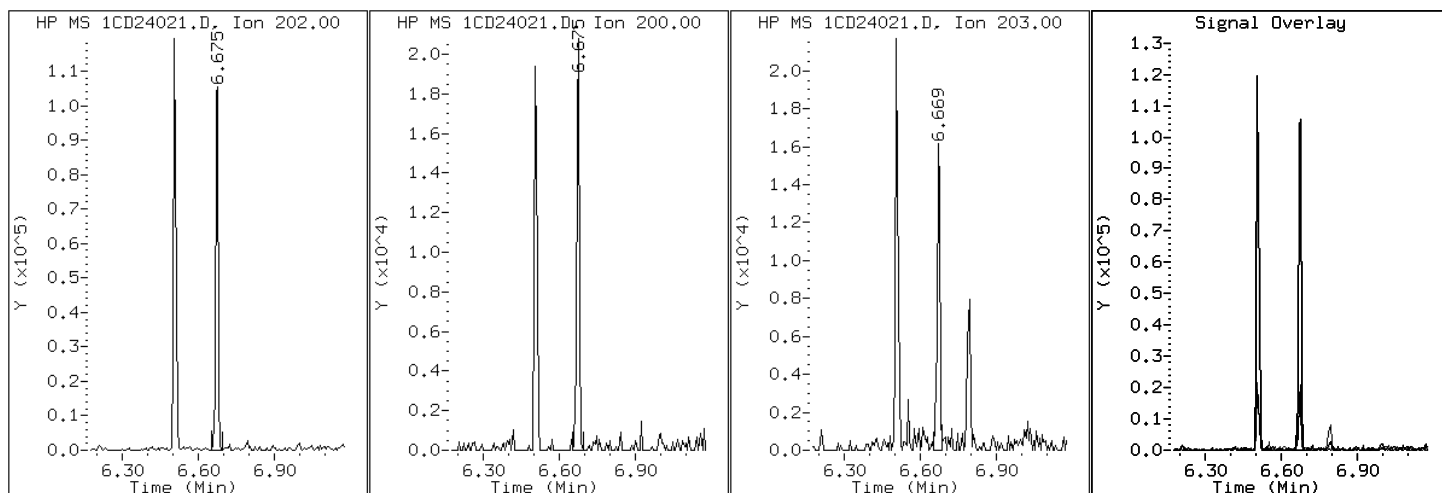
Client ID: CV1013B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89459-a-32-a

Operator: SCC

16 Pyrene

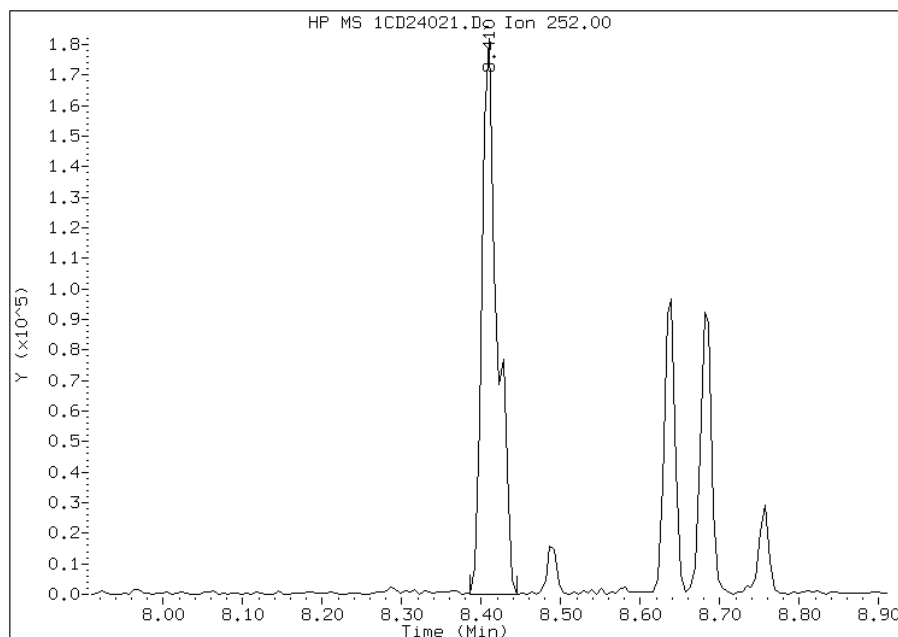


Manual Integration Report

Data File: 1CD24021.D
Inj. Date and Time: 24-APR-2013 18:29
Instrument ID: BSMC5973.i
Client ID: CV1013B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/25/2013

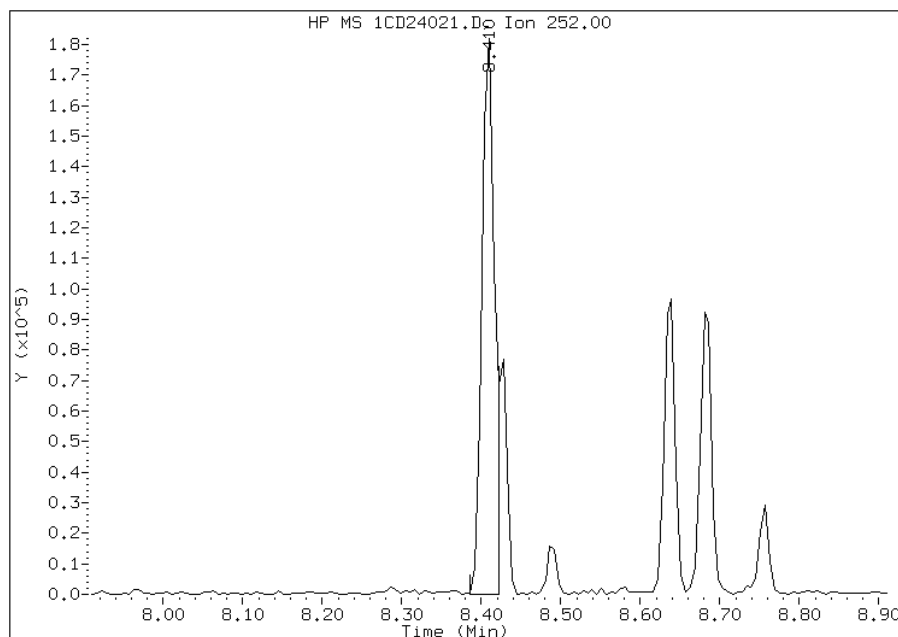
Processing Integration Results

RT: 8.41
Response: 242455
Amount: 39
Conc: 3490



Manual Integration Results

RT: 8.41
Response: 203122
Amount: 32
Conc: 2924



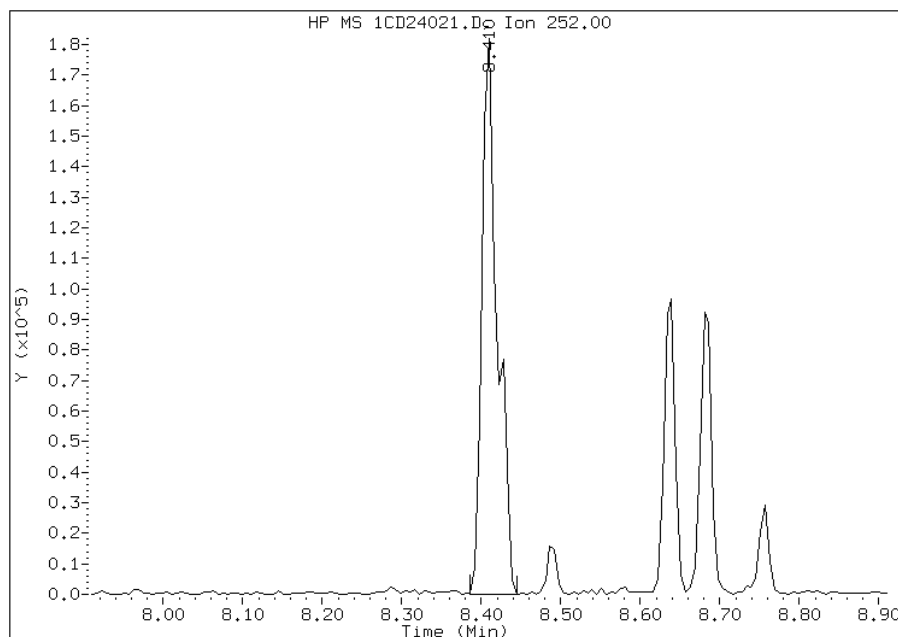
Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:41
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD24021.D
Inj. Date and Time: 24-APR-2013 18:29
Instrument ID: BSMC5973.i
Client ID: CV1013B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/25/2013

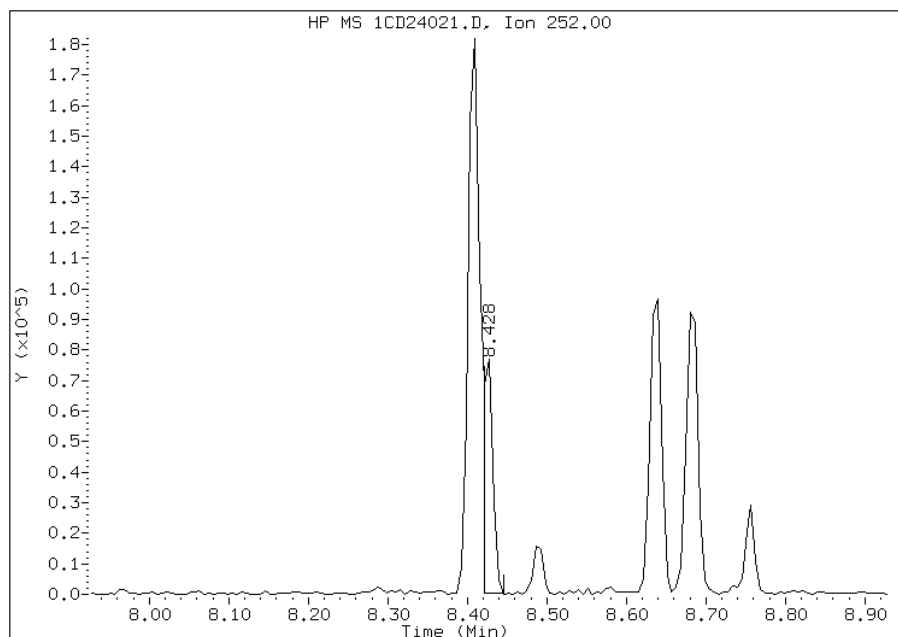
Processing Integration Results

RT: 8.41
Response: 242456
Amount: 40
Conc: 3587



Manual Integration Results

RT: 8.43
Response: 63027
Amount: 10
Conc: 933



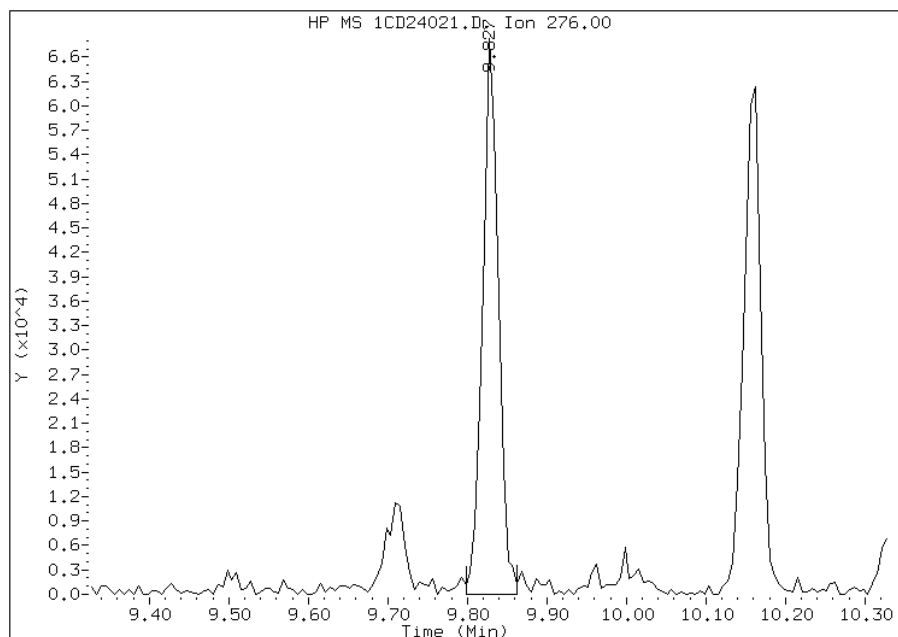
Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:41
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24021.D
Inj. Date and Time: 24-APR-2013 18:29
Instrument ID: BSMC5973.i
Client ID: CV1013B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

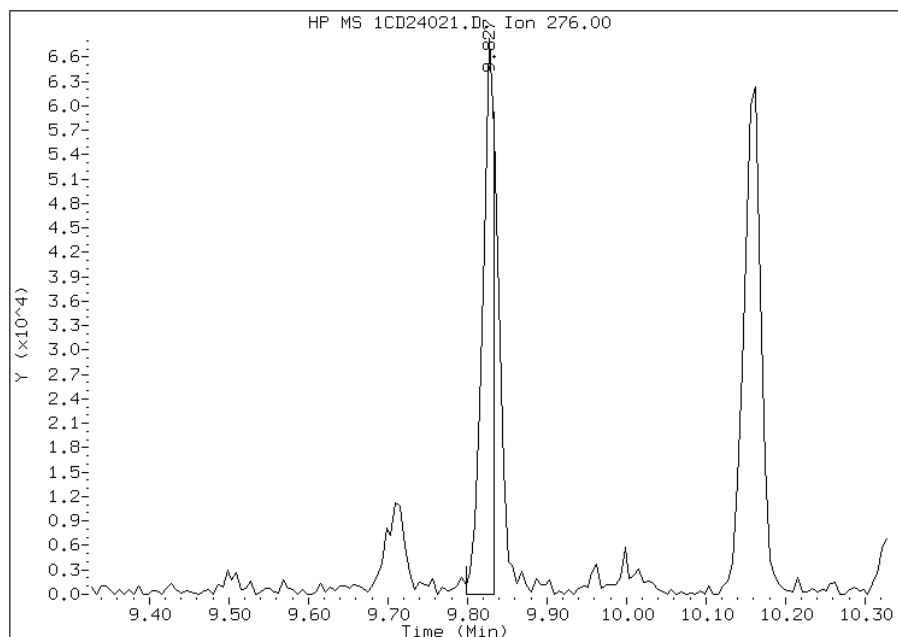
Processing Integration Results

RT: 9.83
Response: 93289
Amount: 15
Conc: 1392



Manual Integration Results

RT: 9.83
Response: 71944
Amount: 12
Conc: 1086



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:41
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-89459-2 Analy Batch No.: 136792

SDG No.: 68089459-2

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

Calibration Start Date: 04/24/2013 13:57 Calibration End Date: 04/24/2013 15:47 Calibration ID: 2916

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136792/9	1CD24008.D
Level 2	IC 660-136792/10	1CD24009.D
Level 3	IC 660-136792/11	1CD24010.D
Level 4	IC 660-136792/12	1CD24011.D
Level 5	ICIS 660-136792/8	1CD24007.D
Level 6	IC 660-136792/13	1CD24012.D
Level 7	IC 660-136792/14	1CD24013.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	1.4885 1.0673	0.8030 0.9945	1.2243	1.0717	1.0350	Qua	0.0016	0.8772	0.0995		0.0000				0.9993		0.9900
2-Methylnaphthalene	0.7464 0.6579	0.4218 0.6085	0.6274	0.6521	0.7379	Qua	0.0162	1.1826	0.5751		0.0000				0.9983		0.9900
1-Methylnaphthalene	0.9319 0.6193	0.7463 0.5744	0.6932	0.6597	0.6871	Qua	0.0036	1.3017	0.6057		0.0000				0.9993		0.9900
Acenaphthylene	3.4304 2.0647	1.9170 1.7629	2.1326	1.8192	1.8525	Qua	0.0112	0.4383	0.0514		0.0000				0.9943		0.9900
Acenaphthene	0.4262 1.2591	1.1075 1.1214	1.1969	1.0197	1.1578	Lin	0.0010	1.1591			0.0000				0.9946		0.9900
Fluorene	0.7134 1.4381	0.8846 1.3393	1.4394	1.2091	1.4637	Lin	0	1.3741			0.0000				0.9965		0.9900
Phenanthrene	0.7358 1.1729	1.0796 1.1379	1.2093	1.1777	1.1532	Ave		1.0952			0.0000	14.9		15.0			
Anthracene	1.6568 1.2549	1.0932 1.1749	1.2756	0.9843	1.2050	Lin	0.0035	1.1989			0.0000				0.9969		0.9900
Carbazole	1.1378 1.1753	0.8782 1.1261	1.1756	1.0992	1.1138	Ave		1.1008			0.0000	9.3		15.0			
Fluoranthene	0.5689 1.3260	1.4602 1.3145	1.3271	1.2451	1.3854	Lin	-0.001	1.3222			0.0000				0.9993		0.9900
Pyrene	1.1153 1.1382	1.3399 1.2411	1.2320	1.0694	1.1336	Ave		1.1813			0.0000	7.9		15.0			
Benzo[a]anthracene	2.8780 1.1234	1.0920 1.2524	0.9747	1.0528	1.0869	Qua	-0.003	1.0003	-0.128		0.0000				0.9999		0.9900
Chrysene	1.2239 1.1652	1.0410 1.2164	1.0997	1.1331	1.1162	Ave		1.1422			0.0000	5.7		15.0			
Benzo[b]fluoranthene	1.2869 1.2910	1.1792 1.0614	0.8207	1.0261	1.0787	Ave		1.1063			0.0000	14.9		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 CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-89459-2 Analy Batch No.: 136792

SDG No.: 68089459-2

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

Calibration Start Date: 04/24/2013 13:57 Calibration End Date: 04/24/2013 15:47 Calibration ID: 2916

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	0.9309 1.0619	1.0234 1.2344	1.0057	1.0567	1.2219	Ave		1.0764			0.0000	10.4		15.0			
Benzo[a]pyrene	0.4167 1.1299	0.9130 1.0738	0.8808	1.0351	1.1266	Lin	0.0055	1.0979			0.0000				0.9984		0.9900
Indeno[1,2,3-cd]pyrene	0.6405 1.1359	1.0272 1.0893	0.7464	1.0313	1.0336	Lin	0.0155	1.1121			0.0000				0.9980		0.9900
Dibenz(a,h)anthracene	0.7370 1.0791	0.9794 1.0428	0.9325	0.9527	1.0661	Ave		0.9699			0.0000	12.1		15.0			
Benzo[g,h,i]perylene	0.8267 1.1488	0.9925 1.0479	1.0131	1.0047	1.0362	Ave		1.0100			0.0000	9.5		15.0			
o-Terphenyl	0.5768 0.5541	0.4988 0.6222	0.6004	0.5917	0.6213	Ave		0.5808			0.0000	7.5		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.: 680-89459-2 Analy Batch No.: 136792

SDG No.: 68089459-2

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

Calibration Start Date: 04/24/2013 13:57 Calibration End Date: 04/24/2013 15:47 Calibration ID: 2916

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136792/9	1CD24008.D
Level 2	IC 660-136792/10	1CD24009.D
Level 3	IC 660-136792/11	1CD24010.D
Level 4	IC 660-136792/12	1CD24011.D
Level 5	ICIS 660-136792/8	1CD24007.D
Level 6	IC 660-136792/13	1CD24012.D
Level 7	IC 660-136792/14	1CD24013.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	Qua	1035 103423	2549 191564	20341	36506	65995	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Qua	519 63749	1339 117199	10424	22212	47054	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Qua	648 60013	2369 110635	11516	22472	43811	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Qua	1481 116035	3801 202374	20507	36679	73827	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Lin	184 70759	2196 128735	11510	20558	46141	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Lin	308 80821	1754 153739	13841	24378	58332	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	560 124603	3569 236464	20935	44728	90821	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Lin	1261 133306	3614 244157	22082	37381	94896	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	866 124856	2903 234016	20351	41744	87713	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Lin	433 140868	4827 273177	22974	47287	109105	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	1068 148768	4995 302673	28020	49927	122882	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Qua	2756 146829	4071 305445	22168	49156	117822	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	1172 152301	3881 296655	25011	52901	121002	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	1334 179789	4851 310324	22111	53250	121135	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	965 147881	4210 360897	27095	54841	137216	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.: 680-89459-2 Analy Batch No.: 136792

SDG No.: 68089459-2

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

Calibration Start Date: 04/24/2013 13:57 Calibration End Date: 04/24/2013 15:47 Calibration ID: 2916

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
Benzo[a]pyrene	PRY	Lin	432 157348	3756 313949	23731	53716	126513	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Lin	664 158186	4226 318480	20110	53522	116072	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	764 150284	4029 304881	25125	49442	119713	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	857 159984	4083 306375	27296	52142	116355	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	439 58861	1649 129301	10394	22471	48930	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

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24007.D
Lab Smp Id: ICIS-1531401
Inj Date : 24-APR-2013 13:57
Operator : SCC
Smp Info : ICIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:22 BSMC5973.i Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000
Inst ID: BSMC5973.i
Compound Sublist: pah.sub

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.633	3.633	(1.000)	127529	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.721	(1.000)	79707	40.0000	
* 10 Phenanthrene-d10	188	5.663	5.663	(1.000)	157508	40.0000	
\$ 14 o-Terphenyl	230	5.910	5.910	(1.044)	48930	20.0000	20.6251
* 18 Chrysene-d12	240	7.592	7.592	(1.000)	216809	40.0000	
* 23 Perylene-d12	264	8.739	8.739	(1.000)	224587	40.0000	
2 Naphthalene	128	3.645	3.645	(1.003)	65995	20.0000	18.8561
3 2-Methylnaphthalene	142	4.074	4.074	(1.121)	47054	20.0000	23.0182
4 1-Methylnaphthalene	142	4.133	4.133	(1.138)	43811	20.0000	19.5833
5 Acenaphthylene	152	4.633	4.633	(0.981)	73827	20.0000	17.3135
7 Acenaphthene	154	4.739	4.739	(1.004)	46141	20.0000	22.2383
9 Fluorene	166	5.063	5.063	(1.072)	58332	20.0000	24.1426
11 Phenanthrene	178	5.674	5.674	(1.002)	90821	20.0000	19.6674
12 Anthracene	178	5.710	5.710	(1.008)	94896	20.0000	19.5145
13 Carbazole	167	5.821	5.821	(1.028)	87713	20.0000	20.2346
15 Fluoranthene	202	6.504	6.504	(1.149)	109105	20.0000	22.4815
16 Pyrene	202	6.674	6.674	(0.879)	122882	20.0000	19.1909
17 Benzo(a)anthracene	228	7.580	7.580	(0.998)	117822	20.0000	18.0612
19 Chrysene	228	7.609	7.609	(1.002)	121002	20.0000	19.5445
20 Benzo(b)fluoranthene	252	8.415	8.415	(0.963)	121135	20.0000	19.5020
21 Benzo(k)fluoranthene	252	8.433	8.433	(0.965)	137216	20.0000	22.7040
22 Benzo(a)pyrene	252	8.692	8.692	(0.995)	126513	20.0000	23.9858
24 Indeno(1,2,3-cd)pyrene	276	9.839	9.839	(1.126)	116072	20.0000	19.2071(M)
25 Dibenzo(a,h)anthracene	278	9.856	9.856	(1.128)	119713	20.0000	20.3903
26 Benzo(g,h,i)perylene	276	10.168	10.168	(1.164)	116355	20.0000	20.5184

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD24007.D

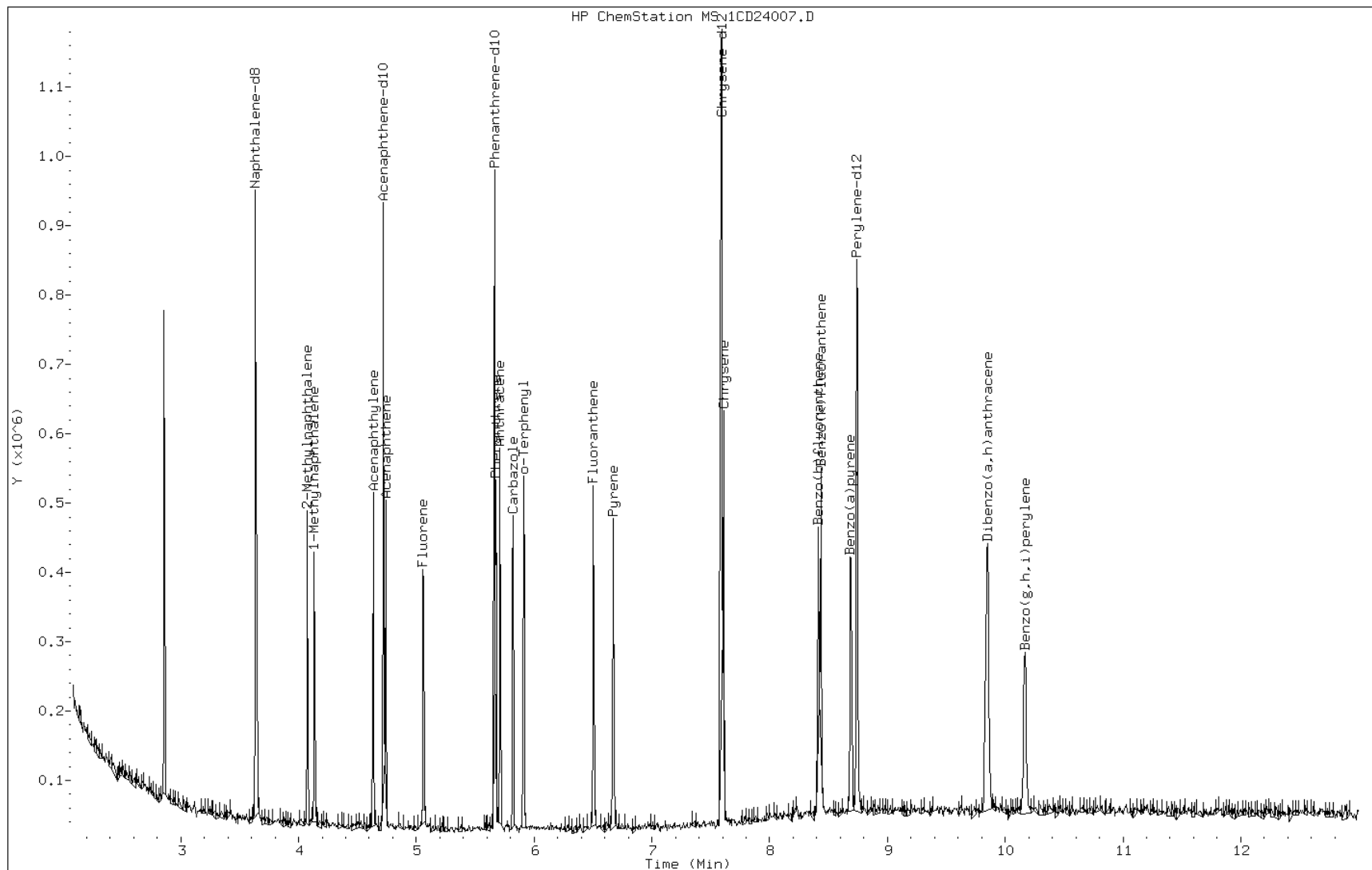
Date: 24-APR-2013 13:57

Client ID:

Instrument: BSMC5973.i

Sample Info: ICIS-1531401

Operator: SCC

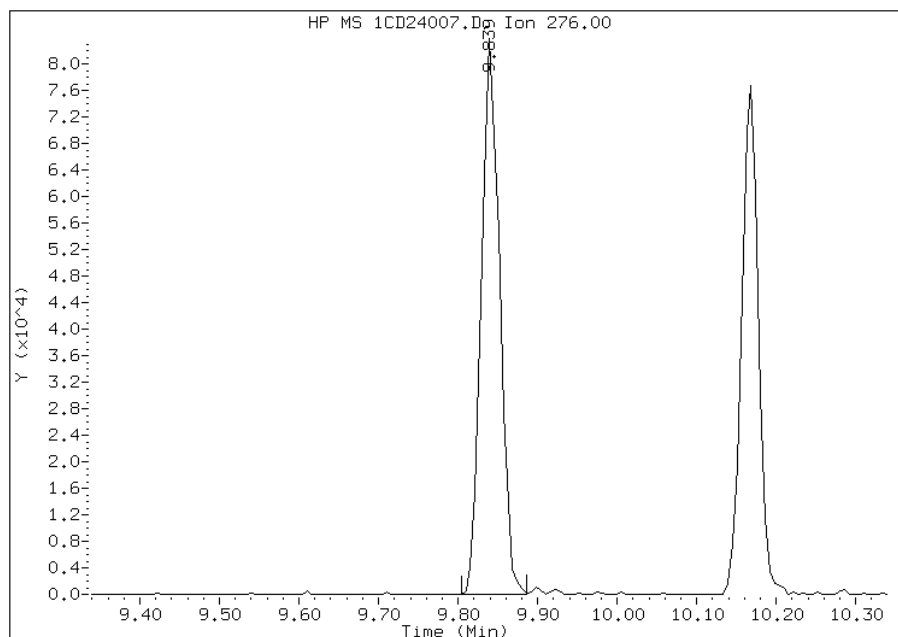


Manual Integration Report

Data File: 1CD24007.D
Inj. Date and Time: 24-APR-2013 13:57
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

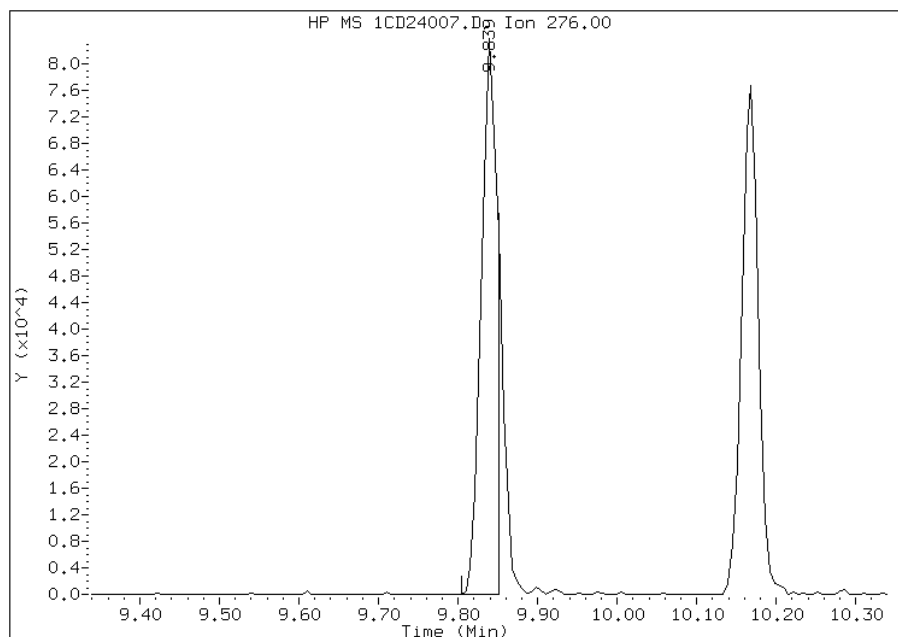
Processing Integration Results

RT: 9.84
Response: 133132
Amount: 23
Conc: 23



Manual Integration Results

RT: 9.84
Response: 116072
Amount: 19
Conc: 19



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:00
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24008.D
Lab Smp Id: IC-1531396
Inj Date : 24-APR-2013 14:16
Operator : SCC
Smp Info : IC-1531396
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1-a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:22 BSMC5973.i Quant Type: ISTD
Cal Date : 24-APR-2013 13:57 Cal File: 1CD24007.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE
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	3.633	3.633	(1.000)	139068	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.721	(1.000)	86346	40.0000	
* 10 Phenanthrene-d10	188	5.657	5.657	(1.000)	152225	40.0000	
\$ 14 o-Terphenyl	230	5.915	5.915	(1.046)	439	0.20000	0.5641(Q)
* 18 Chrysene-d12	240	7.586	7.586	(1.000)	191522	40.0000	
* 23 Perylene-d12	264	8.733	8.733	(1.000)	207323	40.0000	
2 Naphthalene	128	3.645	3.645	(1.003)	1035	0.20000	0.2711(Q)
3 2-Methylnaphthalene	142	4.074	4.074	(1.121)	519	0.20000	-0.2877(aQ)
4 1-Methylnaphthalene	142	4.139	4.139	(1.139)	648	0.20000	0.2656(Q)
5 Acenaphthylene	152	4.633	4.633	(0.981)	1481	0.20000	0.3206
7 Acenaphthene	154	4.739	4.739	(1.004)	184	0.20000	0.0818(Q)
9 Fluorene	166	5.063	5.063	(1.072)	308	0.20000	0.1176(Q)
11 Phenanthrene	178	5.674	5.674	(1.003)	560	0.20000	0.2028(Q)
12 Anthracene	178	5.710	5.710	(1.009)	1261	0.20000	0.2683(H)
13 Carbazole	167	5.821	5.821	(1.029)	866	0.20000	0.2067(M)
15 Fluoranthene	202	6.510	6.510	(1.151)	433	0.20000	0.0923(Q)
16 Pyrene	202	6.668	6.668	(0.879)	1068	0.20000	0.1888
17 Benzo(a)anthracene	228	7.580	7.580	(0.999)	2756	0.20000	0.4782
19 Chrysene	228	7.609	7.609	(1.003)	1172	0.20000	0.2142
20 Benzo(b)fluoranthene	252	8.409	8.409	(0.963)	1334	0.20000	0.2326
21 Benzo(k)fluoranthene	252	8.427	8.427	(0.965)	965	0.20000	0.1729(Q)
22 Benzo(a)pyrene	252	8.692	8.692	(0.995)	432	0.20000	0.0887(Q)
24 Indeno(1,2,3-cd)pyrene	276	9.821	9.821	(1.125)	664	0.20000	0.7334(MH)
25 Dibenzo(a,h)anthracene	278	9.833	9.833	(1.126)	764	0.20000	0.3968(MH)
26 Benzo(g,h,i)perylene	276	10.156	10.156	(1.163)	857	0.20000	0.1637(MH)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File: 1CD24008.D

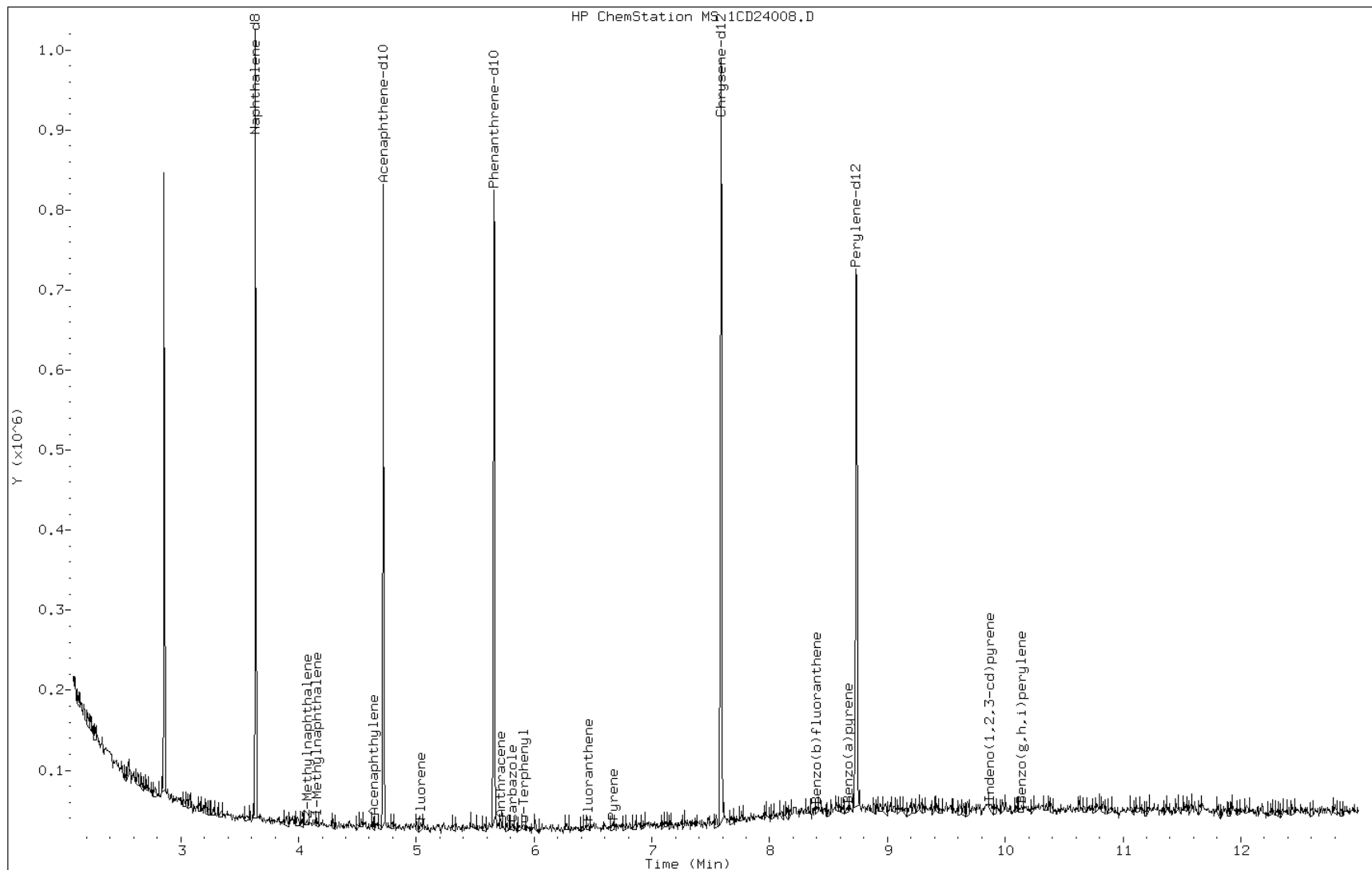
Date: 24-APR-2013 14:16

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531396

Operator: SCC



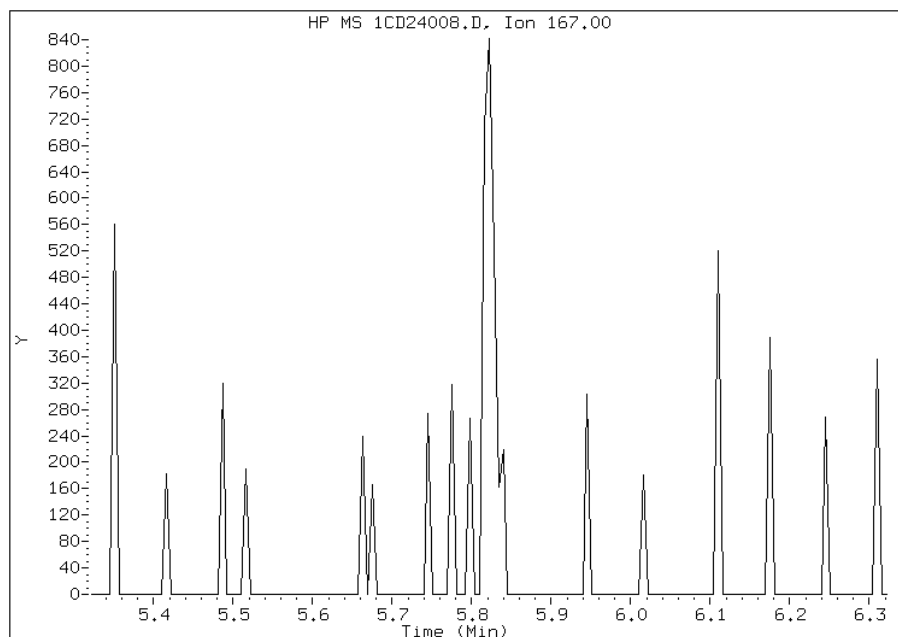
Manual Integration Report

Data File: 1CD24008.D
Inj. Date and Time: 24-APR-2013 14:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 13 Carbazole
CAS #: 86-74-8
Report Date: 04/24/2013

Processing Integration Results

Not Detected

Expected RT: 5.82



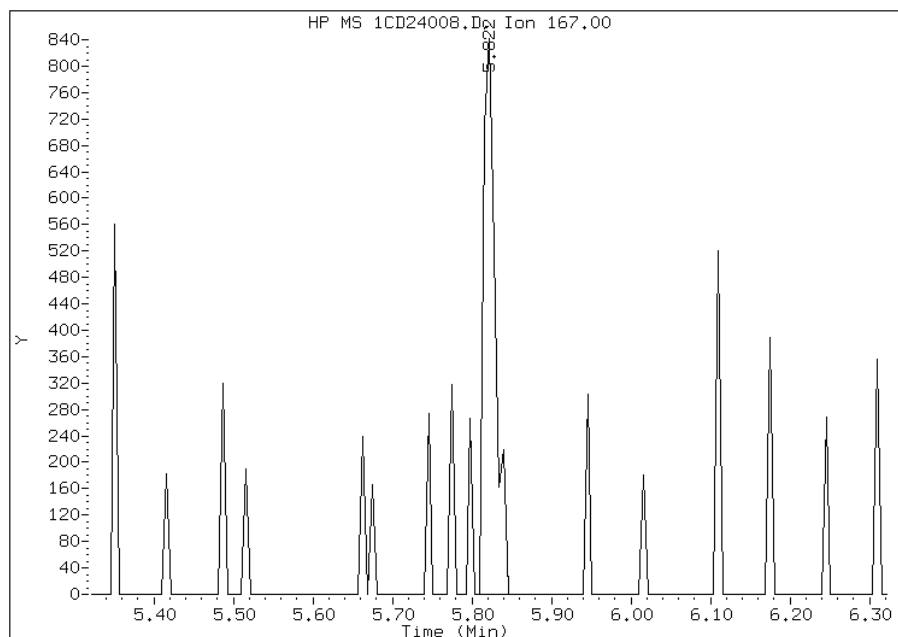
Manual Integration Results

RT: 5.82

Response: 866

Amount: 0

Conc: 0



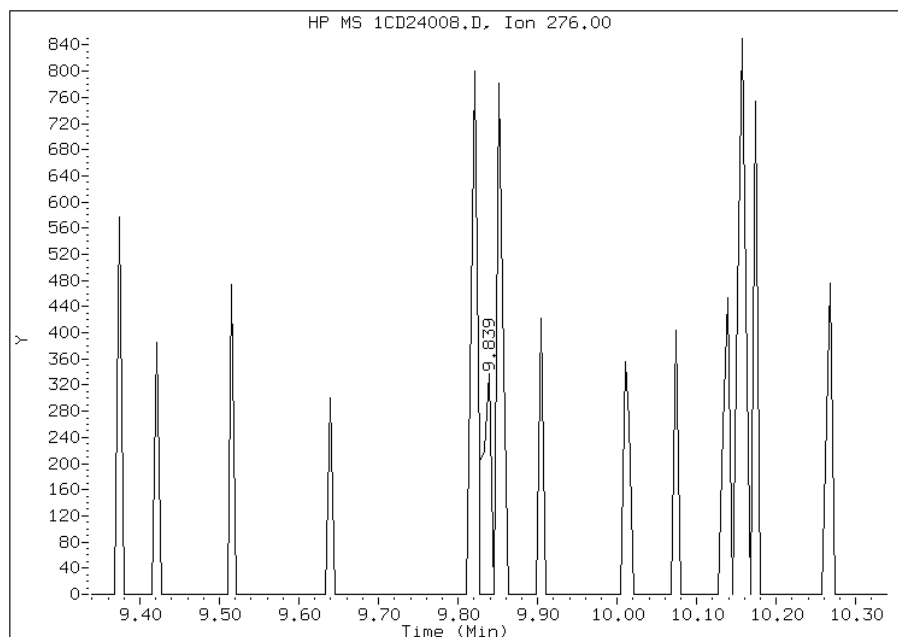
Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:05
Manual Integration Reason: Analyte not Identified by the Data System

Manual Integration Report

Data File: 1CD24008.D
Inj. Date and Time: 24-APR-2013 14:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

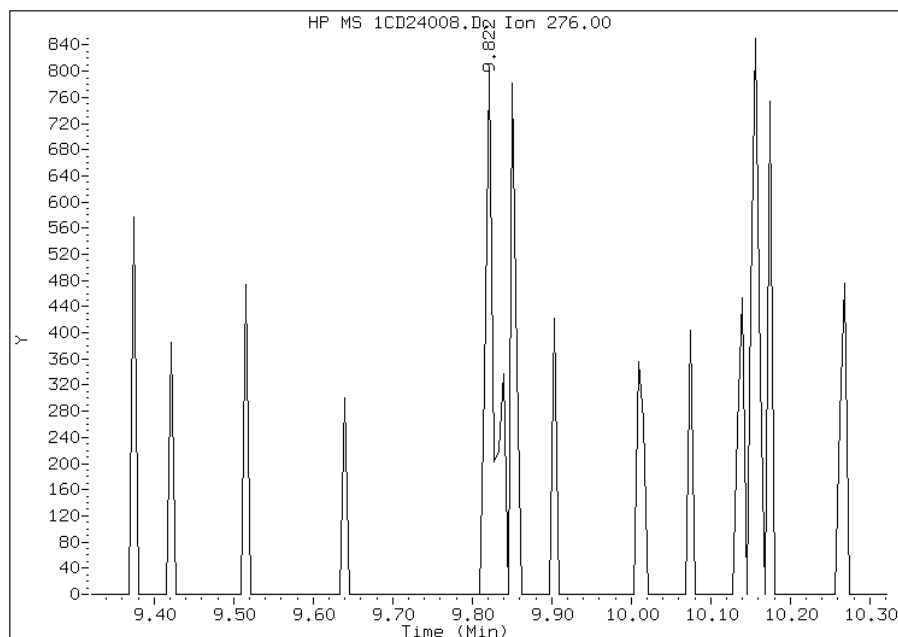
Processing Integration Results

RT: 9.84
Response: 268
Amount: 1
Conc: 1



Manual Integration Results

RT: 9.82
Response: 664
Amount: 1
Conc: 1



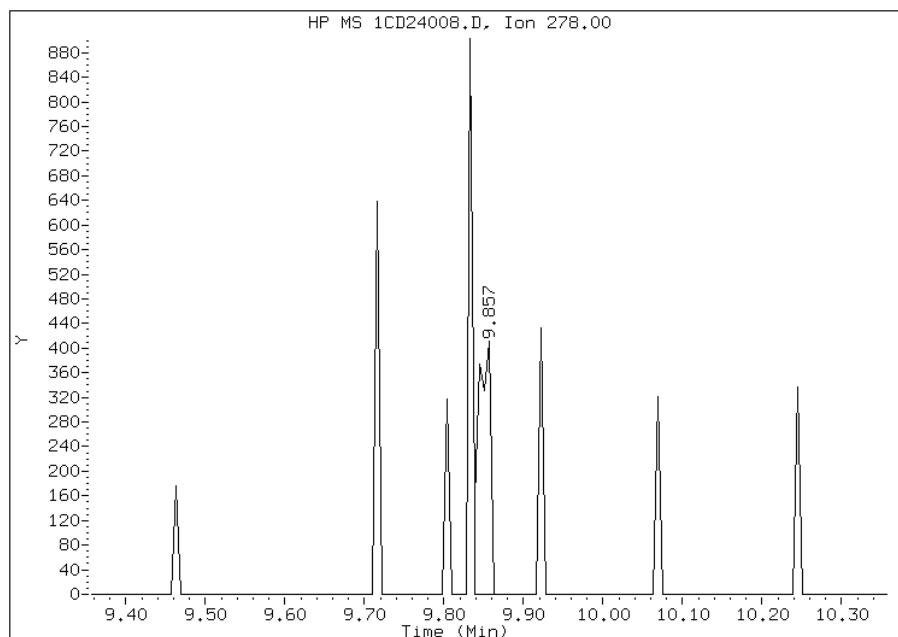
Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:07
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24008.D
Inj. Date and Time: 24-APR-2013 14:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/24/2013

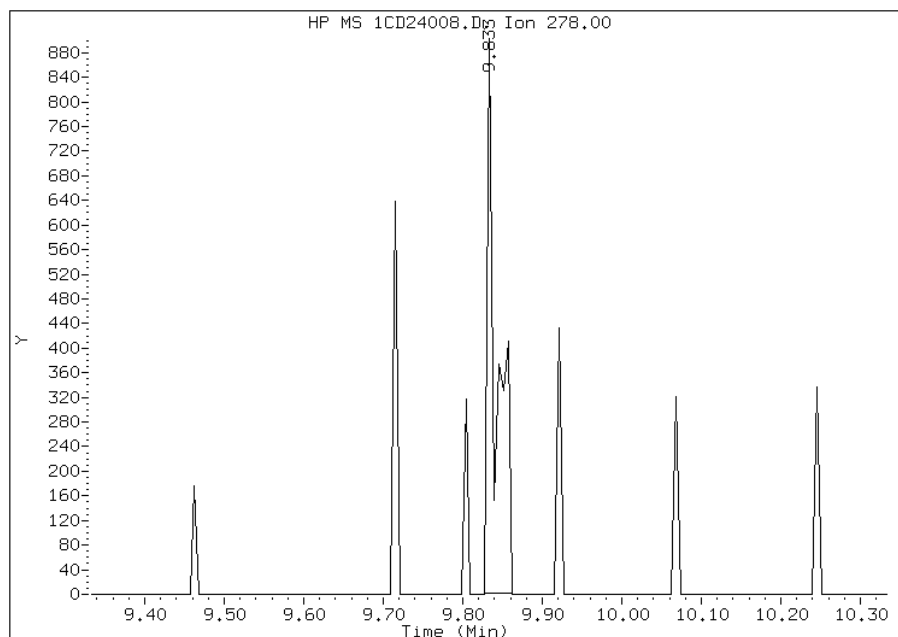
Processing Integration Results

RT: 9.86
Response: 447
Amount: 1
Conc: 1



Manual Integration Results

RT: 9.83
Response: 764
Amount: 0
Conc: 0



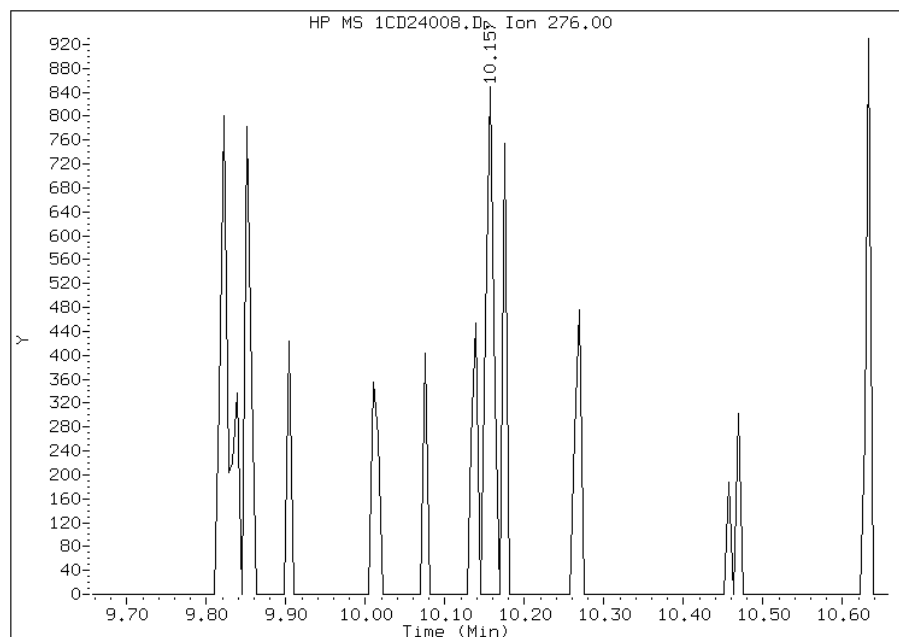
Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:07
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24008.D
Inj. Date and Time: 24-APR-2013 14:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/24/2013

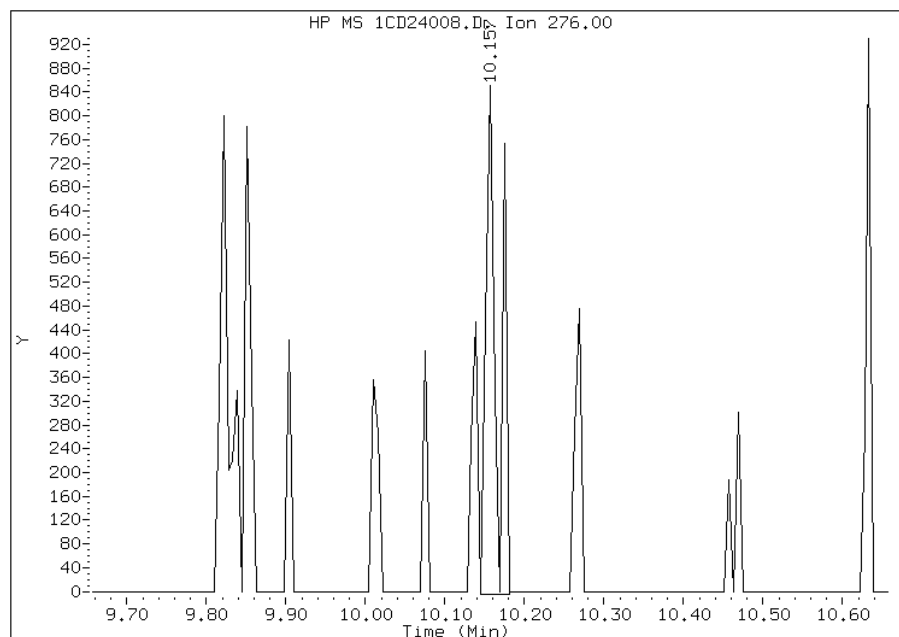
Processing Integration Results

RT: 10.16
Response: 578
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.16
Response: 857
Amount: 0
Conc: 0



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:07
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24009.D
Lab Smp Id: IC-1531398
Inj Date : 24-APR-2013 14:34
Operator : SCC
Smp Info : IC-1531398
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:22 BSMC5973.i Quant Type: ISTD
Cal Date : 24-APR-2013 14:16 Cal File: 1CD24008.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000
Inst ID: BSMC5973.i
Compound Sublist: pah.sub

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.633	3.633	(1.000)	126978	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.721	(1.000)	79312	40.0000	
* 10 Phenanthrene-d10	188	5.657	5.657	(1.000)	132230	40.0000	
\$ 14 o-Terphenyl	230	5.915	5.915	(1.046)	1649	1.00000	1.1890(Q)
* 18 Chrysene-d12	240	7.586	7.586	(1.000)	149120	40.0000	
* 23 Perylene-d12	264	8.733	8.733	(1.000)	164557	40.0000	
2 Naphthalene	128	3.645	3.645	(1.003)	2549	1.00000	0.7314(Q)
3 2-Methylnaphthalene	142	4.074	4.074	(1.121)	1339	1.00000	0.1469
4 1-Methylnaphthalene	142	4.133	4.133	(1.138)	2369	1.00000	1.0635(Q)
5 Acenaphthylene	152	4.633	4.633	(0.981)	3801	1.00000	0.8958
7 Acenaphthene	154	4.739	4.739	(1.004)	2196	1.00000	1.0636(Q)
9 Fluorene	166	5.057	5.057	(1.071)	1754	1.00000	0.7295(QM)
11 Phenanthrene	178	5.674	5.674	(1.003)	3569	1.00000	0.9784(Q)
12 Anthracene	178	5.710	5.710	(1.009)	3614	1.00000	0.8852
13 Carbazole	167	5.821	5.821	(1.029)	2903	1.00000	0.7977
15 Fluoranthene	202	6.504	6.504	(1.150)	4827	1.00000	1.1847(Q)
16 Pyrene	202	6.668	6.668	(0.879)	4995	1.00000	1.1341
17 Benzo(a)anthracene	228	7.580	7.580	(0.999)	4071	1.00000	0.9073
19 Chrysene	228	7.609	7.609	(1.003)	3881	1.00000	0.9114
20 Benzo(b)fluoranthene	252	8.404	8.404	(0.962)	4851	1.00000	1.0658
21 Benzo(k)fluoranthene	252	8.421	8.421	(0.964)	4210	1.00000	0.9507(Q)
22 Benzo(a)pyrene	252	8.680	8.680	(0.994)	3756	1.00000	0.9718(Q)
24 Indeno(1,2,3-cd)pyrene	276	9.827	9.827	(1.125)	4226	1.00000	1.5419(M)
25 Dibenzo(a,h)anthracene	278	9.845	9.845	(1.127)	4029	1.00000	1.1823(M)
26 Benzo(g,h,i)perylene	276	10.156	10.156	(1.163)	4083	1.00000	0.9826(M)

QC Flag Legend

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

Data File: 1CD24009.D

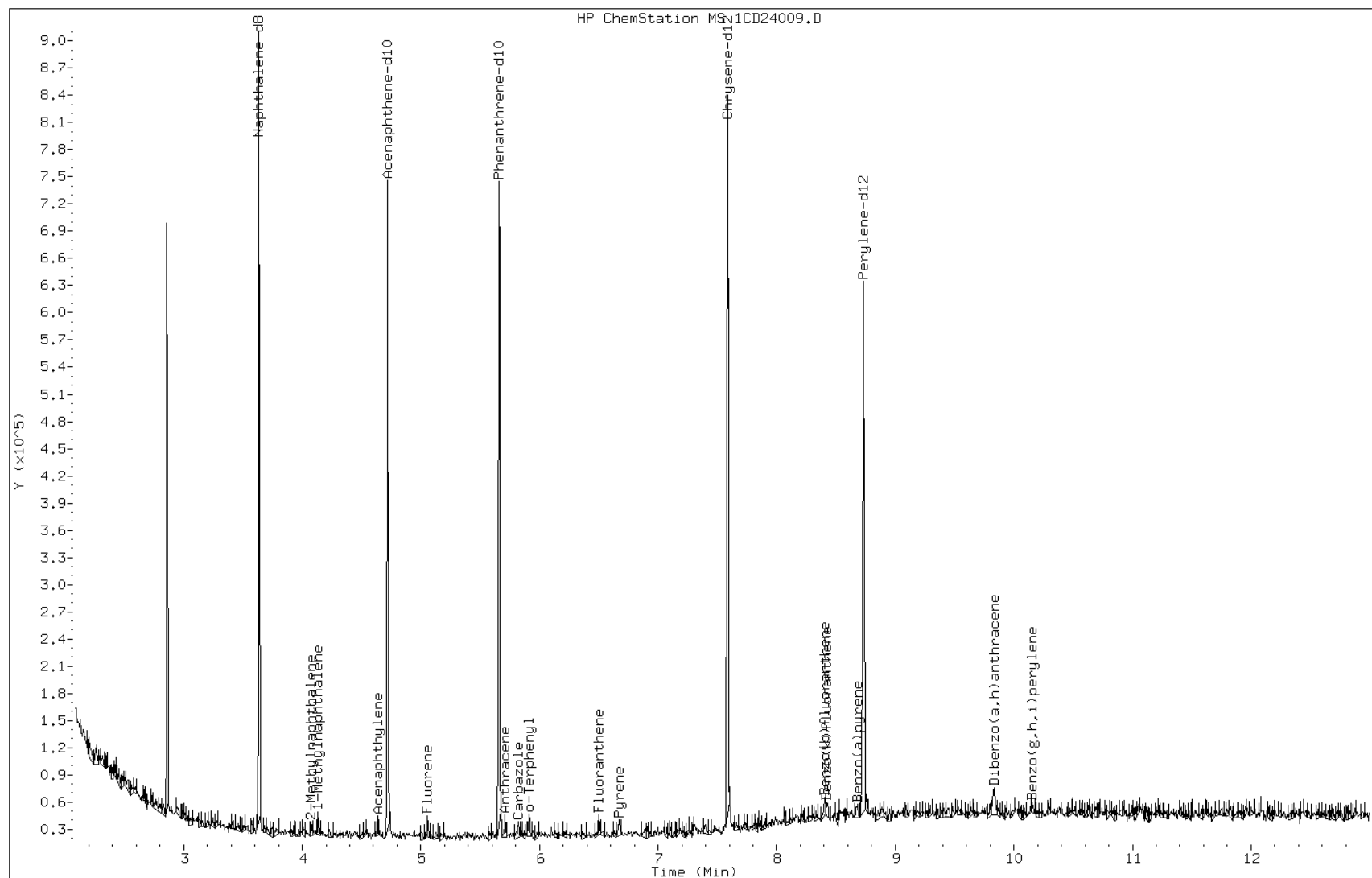
Date: 24-APR-2013 14:34

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531398

Operator: SCC



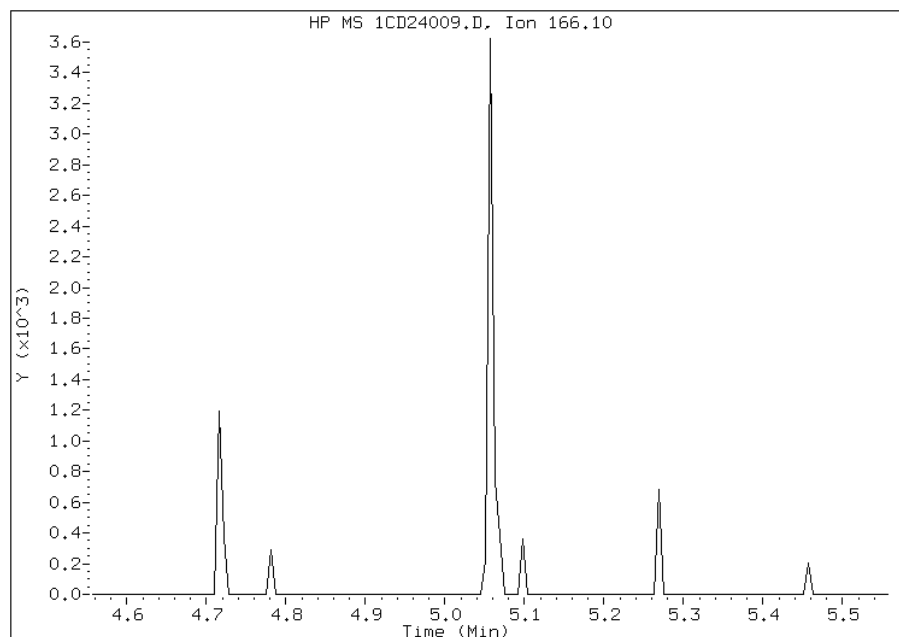
Manual Integration Report

Data File: 1CD24009.D
Inj. Date and Time: 24-APR-2013 14:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 9 Fluorene
CAS #: 86-73-7
Report Date: 04/24/2013

Processing Integration Results

Not Detected

Expected RT: 5.06



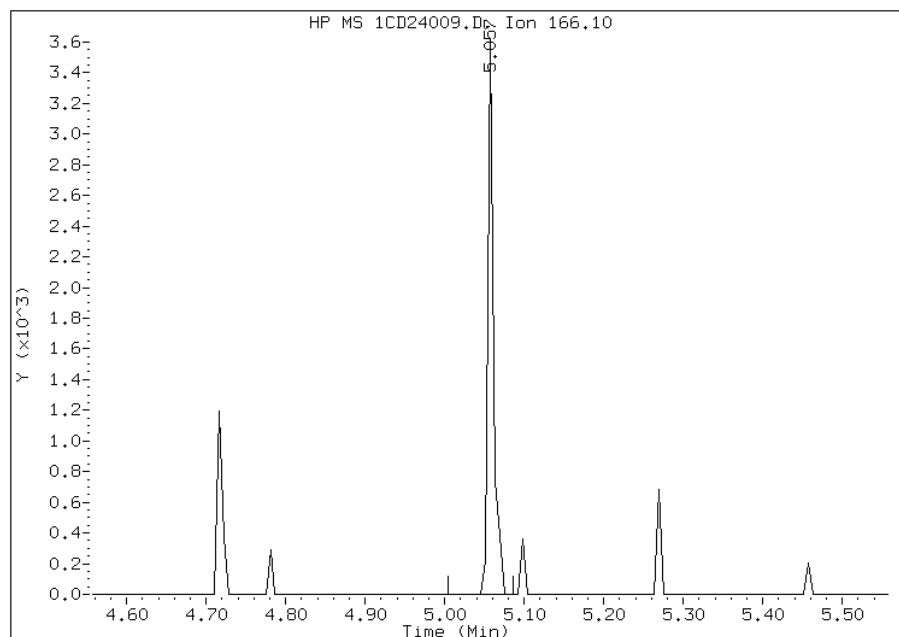
Manual Integration Results

RT: 5.06

Response: 1754

Amount: 1

Conc: 1



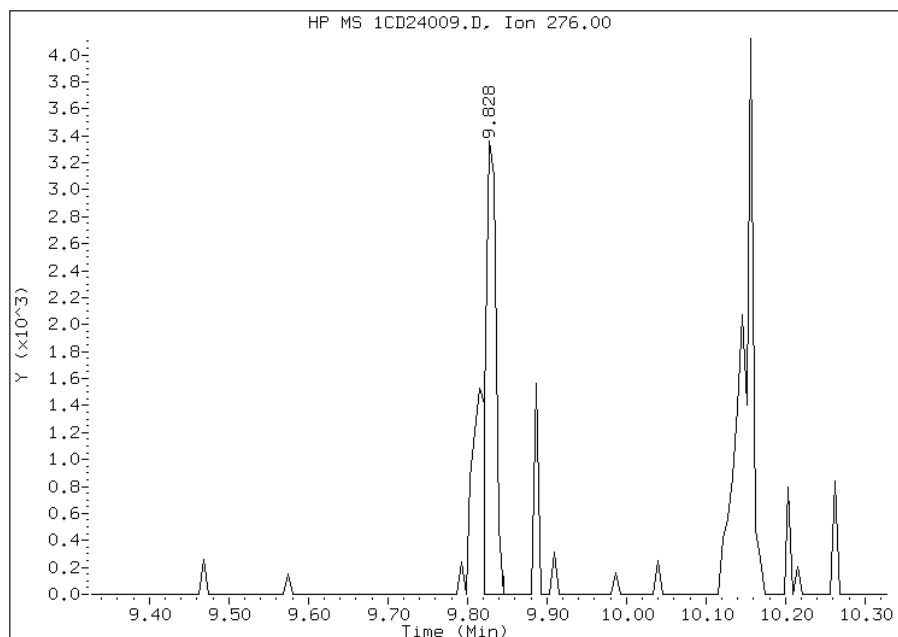
Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:14
Manual Integration Reason: Analyte not Identified by the Data System

Manual Integration Report

Data File: 1CD24009.D
Inj. Date and Time: 24-APR-2013 14:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

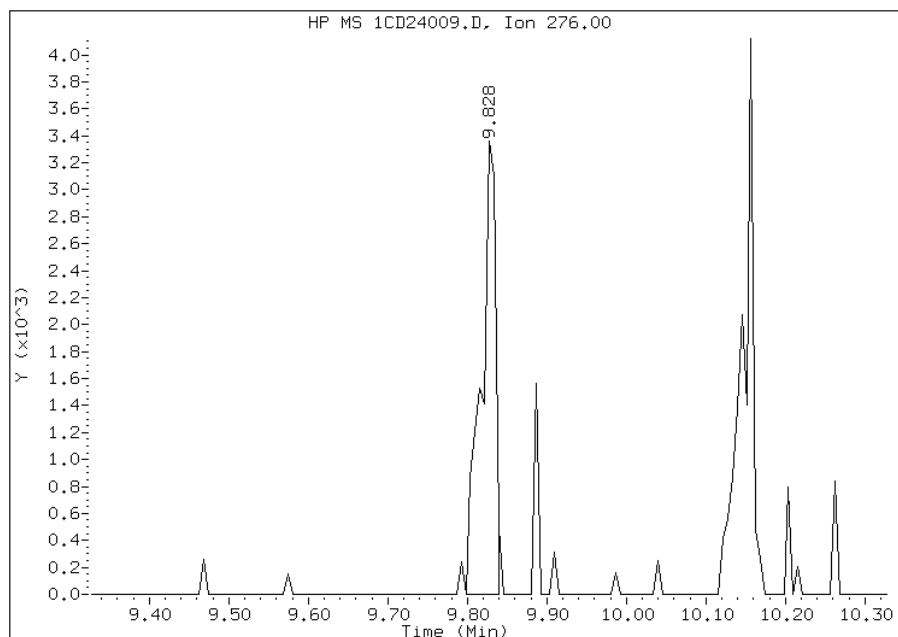
Processing Integration Results

RT: 9.83
Response: 2955
Amount: 2
Conc: 2



Manual Integration Results

RT: 9.83
Response: 4226
Amount: 2
Conc: 2



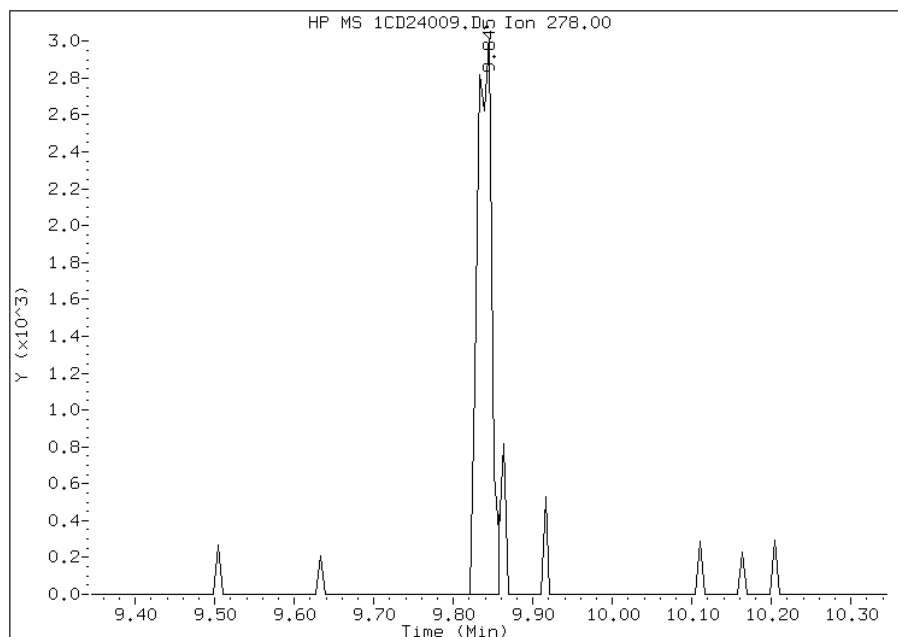
Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24009.D
Inj. Date and Time: 24-APR-2013 14:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/24/2013

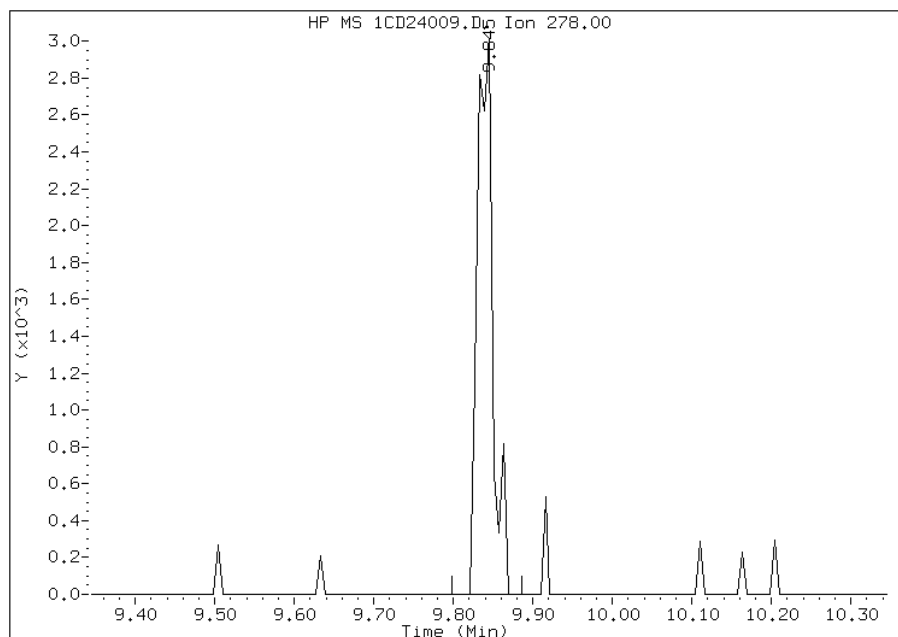
Processing Integration Results

RT: 9.85
Response: 3739
Amount: 1
Conc: 1



Manual Integration Results

RT: 9.85
Response: 4029
Amount: 1
Conc: 1



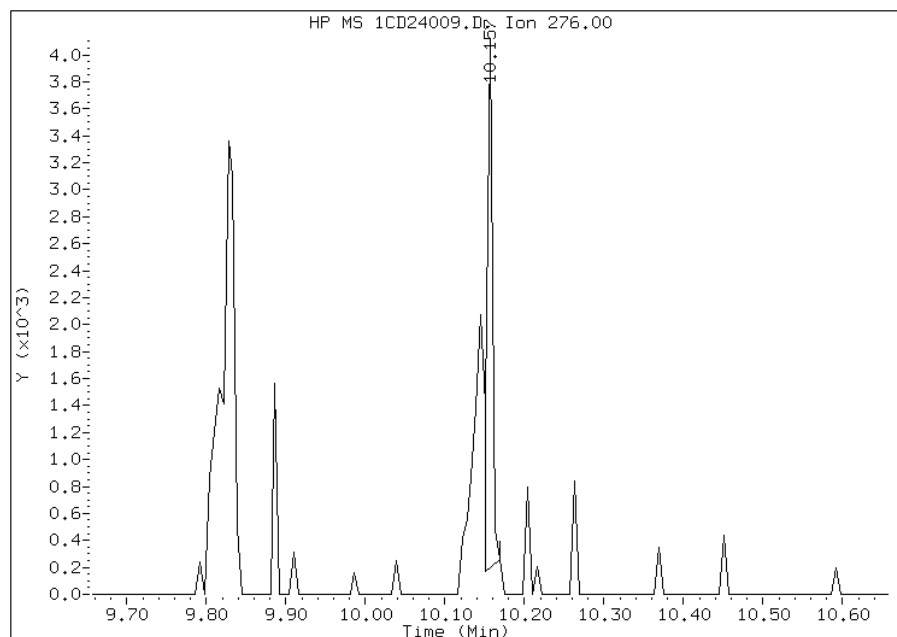
Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24009.D
Inj. Date and Time: 24-APR-2013 14:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/24/2013

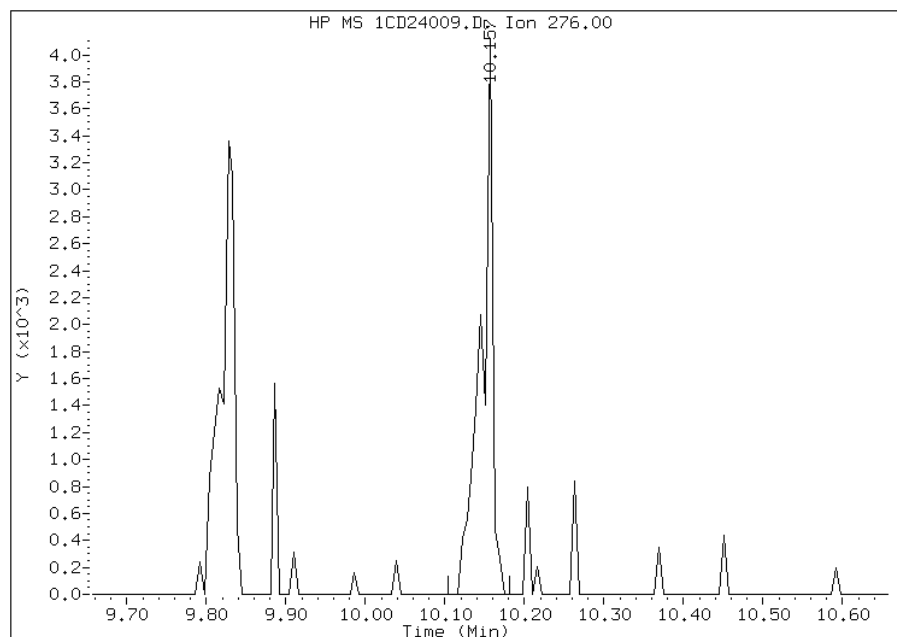
Processing Integration Results

RT: 10.16
Response: 1906
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.16
Response: 4083
Amount: 1
Conc: 1



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:14
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24010.D
Lab Smp Id: IC-1531399
Inj Date : 24-APR-2013 14:52
Operator : SCC
Smp Info : IC-1531399
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:22 BSMC5973.i Quant Type: ISTD
Cal Date : 24-APR-2013 14:34 Cal File: 1CD24009.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000
Inst ID: BSMC5973.i
Compound Sublist: pah.sub

							AMOUNTS	
QUANT SIG							CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)	
=====	=====	=====	=====	=====	=====	=====	=====	
* 1 Naphthalene-d8	136	3.633	3.633	(1.000)	132911	40.0000		
* 6 Acenaphthene-d10	164	4.721	4.721	(1.000)	76929	40.0000		
* 10 Phenanthrene-d10	188	5.662	5.662	(1.000)	138489	40.0000		
\$ 14 o-Terphenyl	230	5.909	5.909	(1.044)	10394	5.00000	5.2683	
* 18 Chrysene-d12	240	7.586	7.586	(1.000)	181945	40.0000		
* 23 Perylene-d12	264	8.727	8.727	(1.000)	215540	40.0000		
2 Naphthalene	128	3.651	3.651	(1.005)	20341	5.00000	5.5765(Q)	
3 2-Methylnaphthalene	142	4.074	4.074	(1.121)	10424	5.00000	4.4786(Q)	
4 1-Methylnaphthalene	142	4.133	4.133	(1.138)	11516	5.00000	4.9391(Q)	
5 Acenaphthylene	152	4.633	4.633	(0.981)	20507	5.00000	4.9828	
7 Acenaphthene	154	4.739	4.739	(1.004)	11510	5.00000	5.7477(Q)	
9 Fluorene	166	5.057	5.057	(1.071)	13841	5.00000	5.9354(Q)	
11 Phenanthrene	178	5.674	5.674	(1.002)	20935	5.00000	5.1331	
12 Anthracene	178	5.709	5.709	(1.008)	22082	5.00000	5.1645	
13 Carbazole	167	5.815	5.815	(1.027)	20351	5.00000	5.3395	
15 Fluoranthene	202	6.504	6.504	(1.149)	22974	5.00000	5.3839	
16 Pyrene	202	6.668	6.668	(0.879)	28020	5.00000	5.2145	
17 Benzo(a)anthracene	228	7.580	7.580	(0.999)	22168	5.00000	4.0493	
19 Chrysene	228	7.609	7.609	(1.003)	25011	5.00000	4.8139	
20 Benzo(b)fluoranthene	252	8.398	8.398	(0.962)	22111	5.00000	3.7091	
21 Benzo(k)fluoranthene	252	8.421	8.421	(0.965)	27095	5.00000	4.6713	
22 Benzo(a)pyrene	252	8.674	8.674	(0.994)	23731	5.00000	4.6880	
24 Indeno(1,2,3-cd)pyrene	276	9.821	9.821	(1.125)	20110	5.00000	3.9740(M)	
25 Dibenzo(a,h)anthracene	278	9.833	9.833	(1.127)	25125	5.00000	4.6603	
26 Benzo(g,h,i)perylene	276	10.144	10.144	(1.162)	27296	5.00000	5.0155	

QC Flag Legend

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

Data File: 1CD24010.D

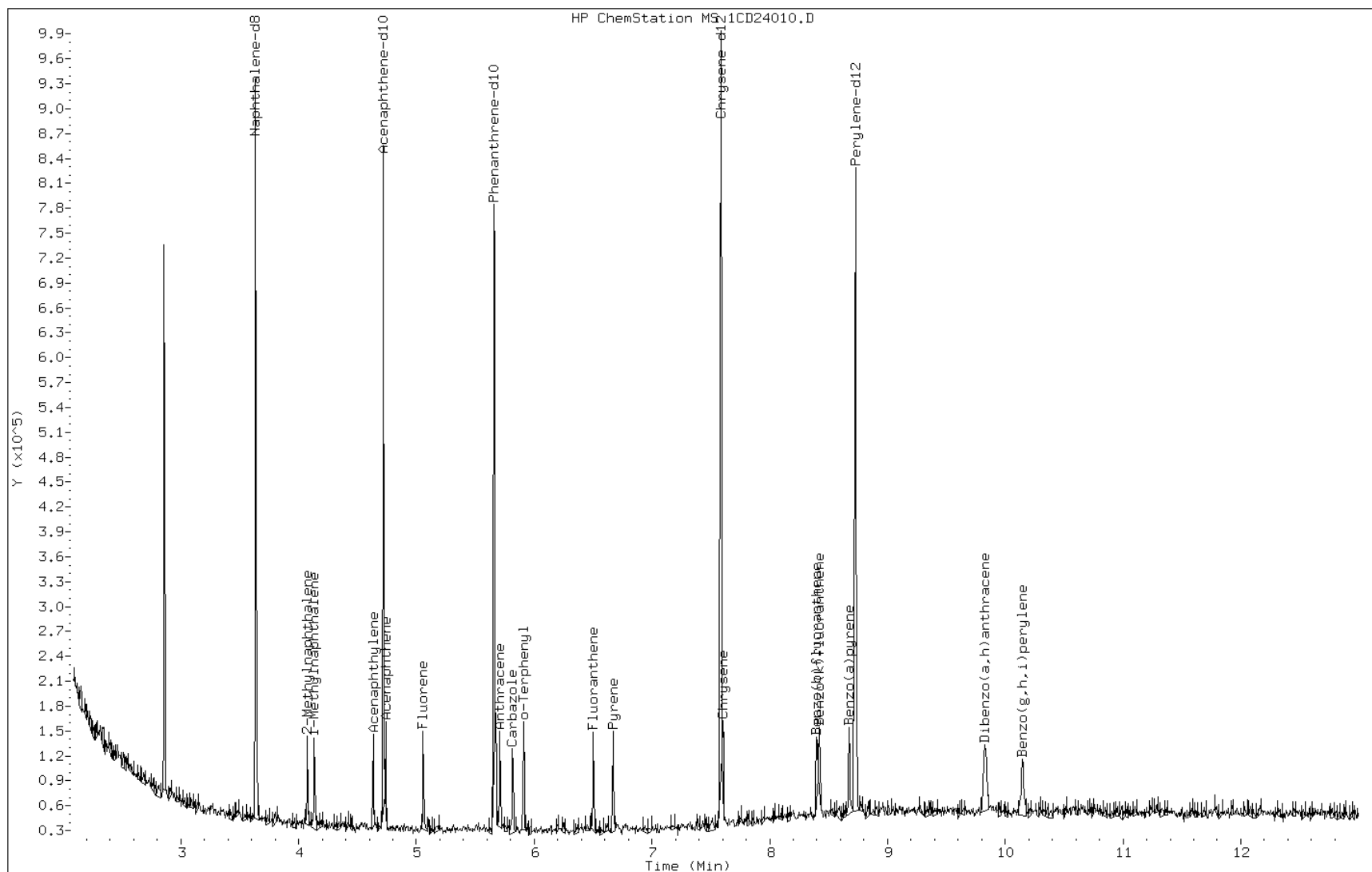
Date: 24-APR-2013 14:52

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531399

Operator: SCC

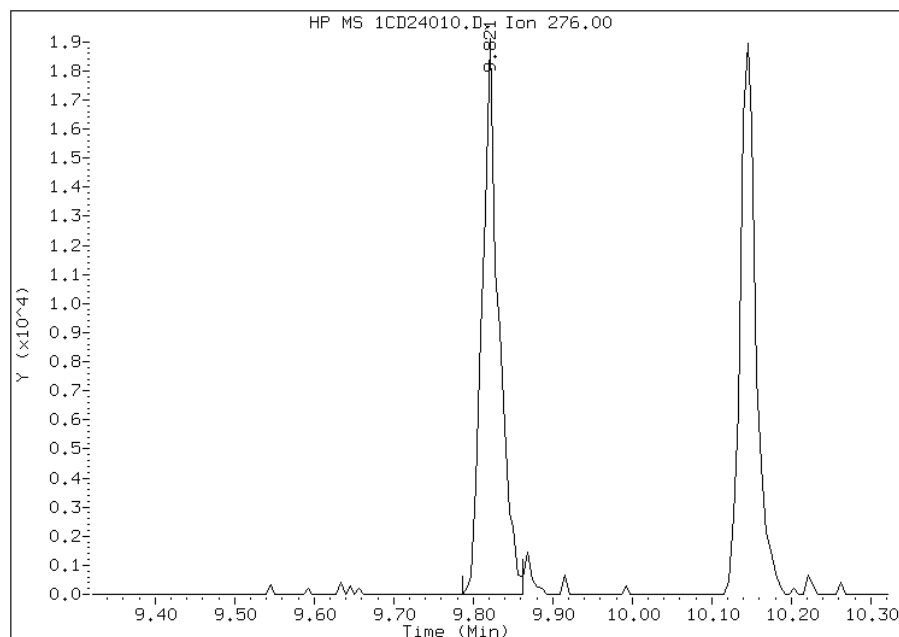


Manual Integration Report

Data File: 1CD24010.D
Inj. Date and Time: 24-APR-2013 14:52
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

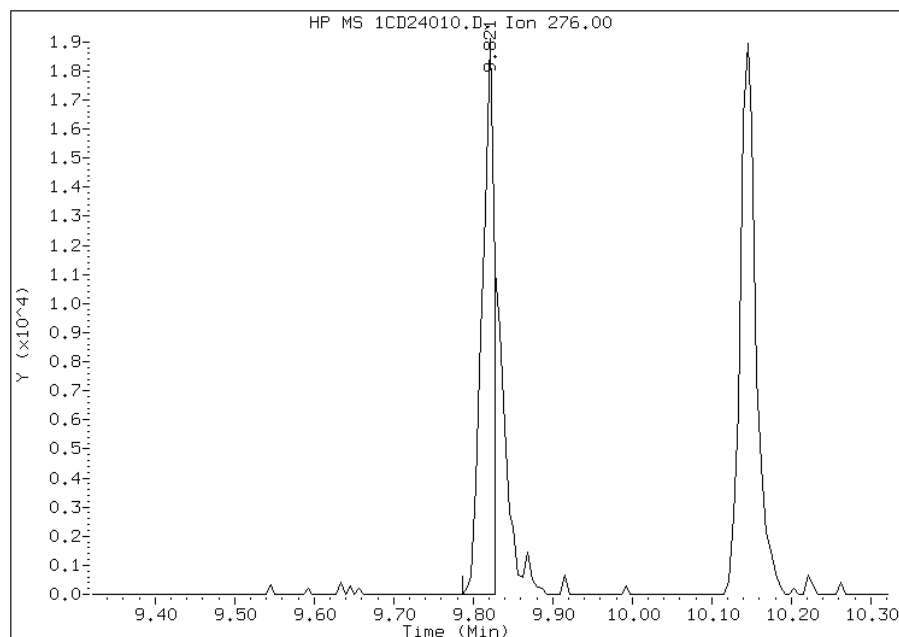
Processing Integration Results

RT: 9.82
Response: 27620
Amount: 6
Conc: 6



Manual Integration Results

RT: 9.82
Response: 20110
Amount: 4
Conc: 4



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:20
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24011.D
Lab Smp Id: IC-1531400
Inj Date : 24-APR-2013 15:11
Operator : SCC
Smp Info : IC-1531400
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:22 BSMC5973.i Quant Type: ISTD
Cal Date : 24-APR-2013 14:52 Cal File: 1CD24010.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000
Inst ID: BSMC5973.i
Compound Sublist: pah.sub

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.633	3.633	(1.000)	136256	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.721	(1.000)	80647	40.0000	
* 10 Phenanthrene-d10	188	5.662	5.662	(1.000)	151912	40.0000	
\$ 14 o-Terphenyl	230	5.909	5.909	(1.044)	22471	10.0000	10.0180
* 18 Chrysene-d12	240	7.586	7.586	(1.000)	186755	40.0000	
* 23 Perylene-d12	264	8.733	8.733	(1.000)	207585	40.0000	
2 Naphthalene	128	3.645	3.645	(1.003)	36506	10.0000	9.7624
3 2-Methylnaphthalene	142	4.074	4.074	(1.121)	22212	10.0000	9.8763
4 1-Methylnaphthalene	142	4.133	4.133	(1.138)	22472	10.0000	9.4015
5 Acenaphthylene	152	4.633	4.633	(0.981)	36679	10.0000	8.5014
7 Acenaphthene	154	4.739	4.739	(1.004)	20558	10.0000	9.7927
9 Fluorene	166	5.057	5.057	(1.071)	24378	10.0000	9.9720
11 Phenanthrene	178	5.674	5.674	(1.002)	44728	10.0000	9.9757
12 Anthracene	178	5.709	5.709	(1.008)	37381	10.0000	7.9702
13 Carbazole	167	5.815	5.815	(1.027)	41744	10.0000	9.9847
15 Fluoranthene	202	6.504	6.504	(1.149)	47287	10.0000	10.1026
16 Pyrene	202	6.668	6.668	(0.879)	49927	10.0000	9.0520
17 Benzo(a)anthracene	228	7.580	7.580	(0.999)	49156	10.0000	8.7479
19 Chrysene	228	7.609	7.609	(1.003)	52901	10.0000	9.9197
20 Benzo(b)fluoranthene	252	8.403	8.403	(0.962)	53250	10.0000	9.2751
21 Benzo(k)fluoranthene	252	8.427	8.427	(0.965)	54841	10.0000	9.8172
22 Benzo(a)pyrene	252	8.680	8.680	(0.994)	53716	10.0000	11.0182
24 Indeno(1,2,3-cd)pyrene	276	9.821	9.821	(1.125)	53522	10.0000	9.8918(M)
25 Dibenzo(a,h)anthracene	278	9.839	9.839	(1.127)	49442	10.0000	9.2535
26 Benzo(g,h,i)perylene	276	10.156	10.156	(1.163)	52142	10.0000	9.9479(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD24011.D

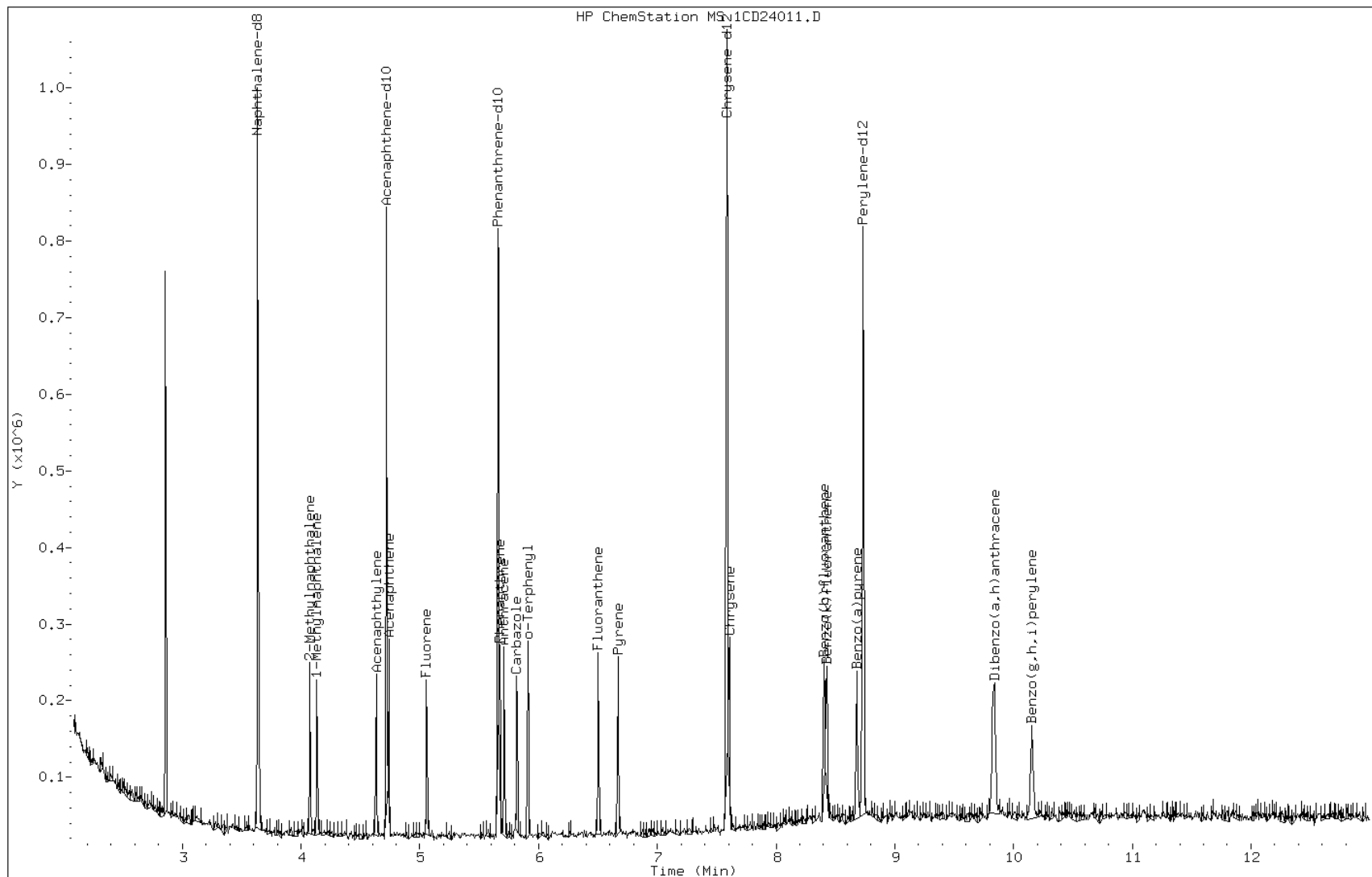
Date: 24-APR-2013 15:11

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531400

Operator: SCC

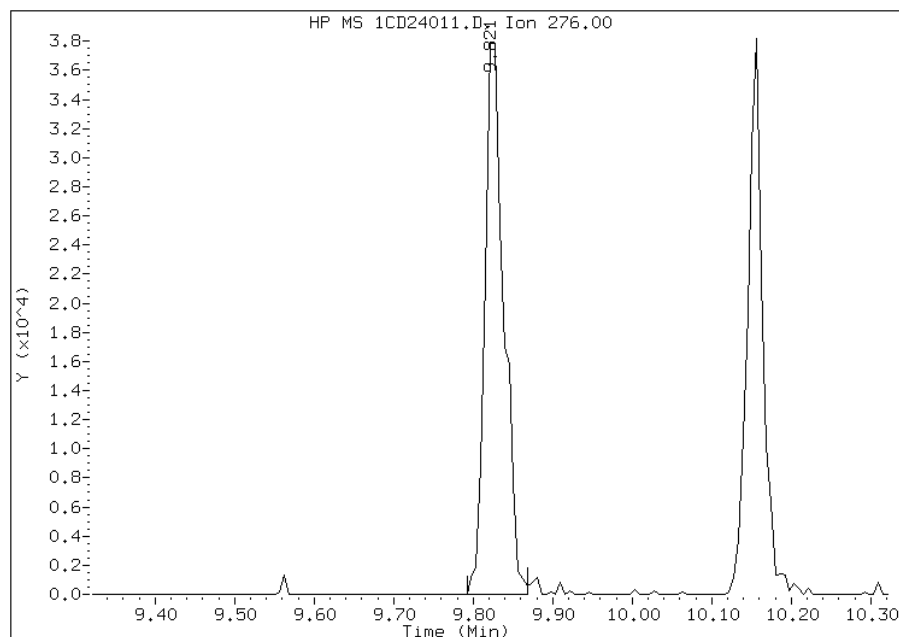


Manual Integration Report

Data File: 1CD24011.D
Inj. Date and Time: 24-APR-2013 15:11
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

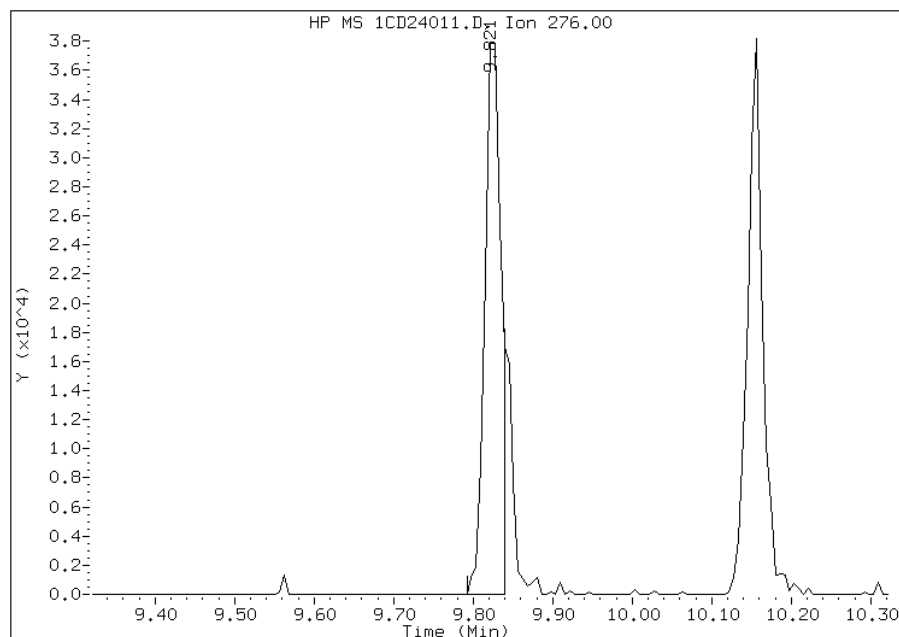
Processing Integration Results

RT: 9.82
Response: 62952
Amount: 10
Conc: 10



Manual Integration Results

RT: 9.82
Response: 53522
Amount: 10
Conc: 10



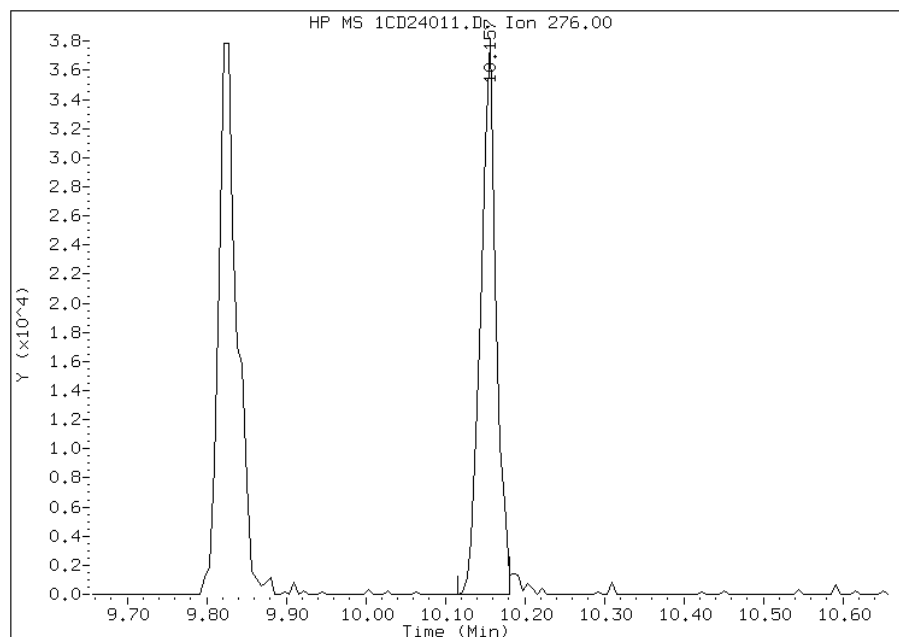
Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:21
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD24011.D
Inj. Date and Time: 24-APR-2013 15:11
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/24/2013

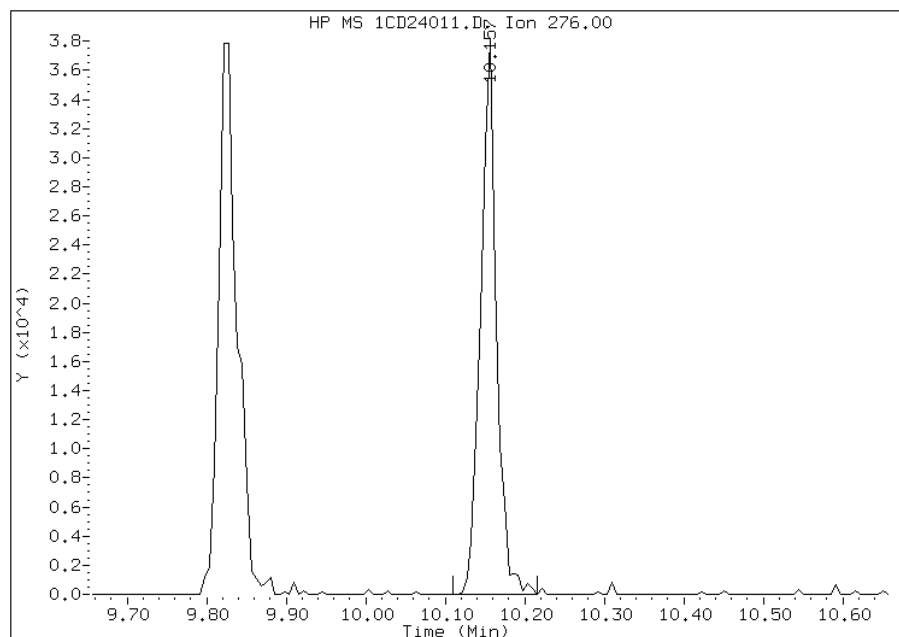
Processing Integration Results

RT: 10.16
Response: 50699
Amount: 11
Conc: 11



Manual Integration Results

RT: 10.16
Response: 52142
Amount: 10
Conc: 10



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:20
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24012.D
Lab Smp Id: IC-1531402
Inj Date : 24-APR-2013 15:29
Operator : SCC
Smp Info : IC-1531402
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:22 BSMC5973.i Quant Type: ISTD
Cal Date : 24-APR-2013 15:11 Cal File: 1CD24011.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000
Inst ID: BSMC5973.i
Compound Sublist: pah.sub

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COL
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.633	3.633	(1.000)	129196	40.0000	
* 6 Acenaphthene-d10	164	4.722	4.722	(1.000)	74931	40.0000	
* 10 Phenanthrene-d10	188	5.663	5.663	(1.000)	141643	40.0000	
\$ 14 o-Terphenyl	230	5.910	5.910	(1.044)	58861	30.0000	27.4632
* 18 Chrysene-d12	240	7.586	7.586	(1.000)	174270	40.0000	
* 23 Perylene-d12	264	8.727	8.727	(1.000)	185685	40.0000	
2 Naphthalene	128	3.645	3.645	(1.003)	103423	30.0000	29.1688
3 2-Methylnaphthalene	142	4.075	4.075	(1.121)	63749	30.0000	30.9602
4 1-Methylnaphthalene	142	4.133	4.133	(1.138)	60013	30.0000	26.4794
5 Acenaphthylene	152	4.633	4.633	(0.981)	116035	30.0000	28.9463
7 Acenaphthene	154	4.739	4.739	(1.004)	70759	30.0000	36.2770
9 Fluorene	166	5.057	5.057	(1.071)	80821	30.0000	35.5826
11 Phenanthrene	178	5.674	5.674	(1.002)	124603	30.0000	30.3046
12 Anthracene	178	5.710	5.710	(1.008)	133306	30.0000	30.4837
13 Carbazole	167	5.816	5.816	(1.027)	124856	30.0000	32.0294
15 Fluoranthene	202	6.504	6.504	(1.149)	140868	30.0000	32.2775
16 Pyrene	202	6.668	6.668	(0.879)	148768	30.0000	28.9049
17 Benzo(a)anthracene	228	7.580	7.580	(0.999)	146829	30.0000	28.0019
19 Chrysene	228	7.610	7.610	(1.003)	152301	30.0000	30.6047
20 Benzo(b)fluoranthene	252	8.404	8.404	(0.963)	179789	30.0000	35.0092
21 Benzo(k)fluoranthene	252	8.421	8.421	(0.965)	147881	30.0000	29.5949
22 Benzo(a)pyrene	252	8.680	8.680	(0.995)	157348	30.0000	36.0817
24 Indeno(1,2,3-cd)pyrene	276	9.821	9.821	(1.125)	158186	30.0000	31.2592(M)
25 Dibenzo(a,h)anthracene	278	9.839	9.839	(1.127)	150284	30.0000	30.8266
26 Benzo(g,h,i)perylene	276	10.151	10.151	(1.163)	159984	30.0000	34.1227

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD24012.D

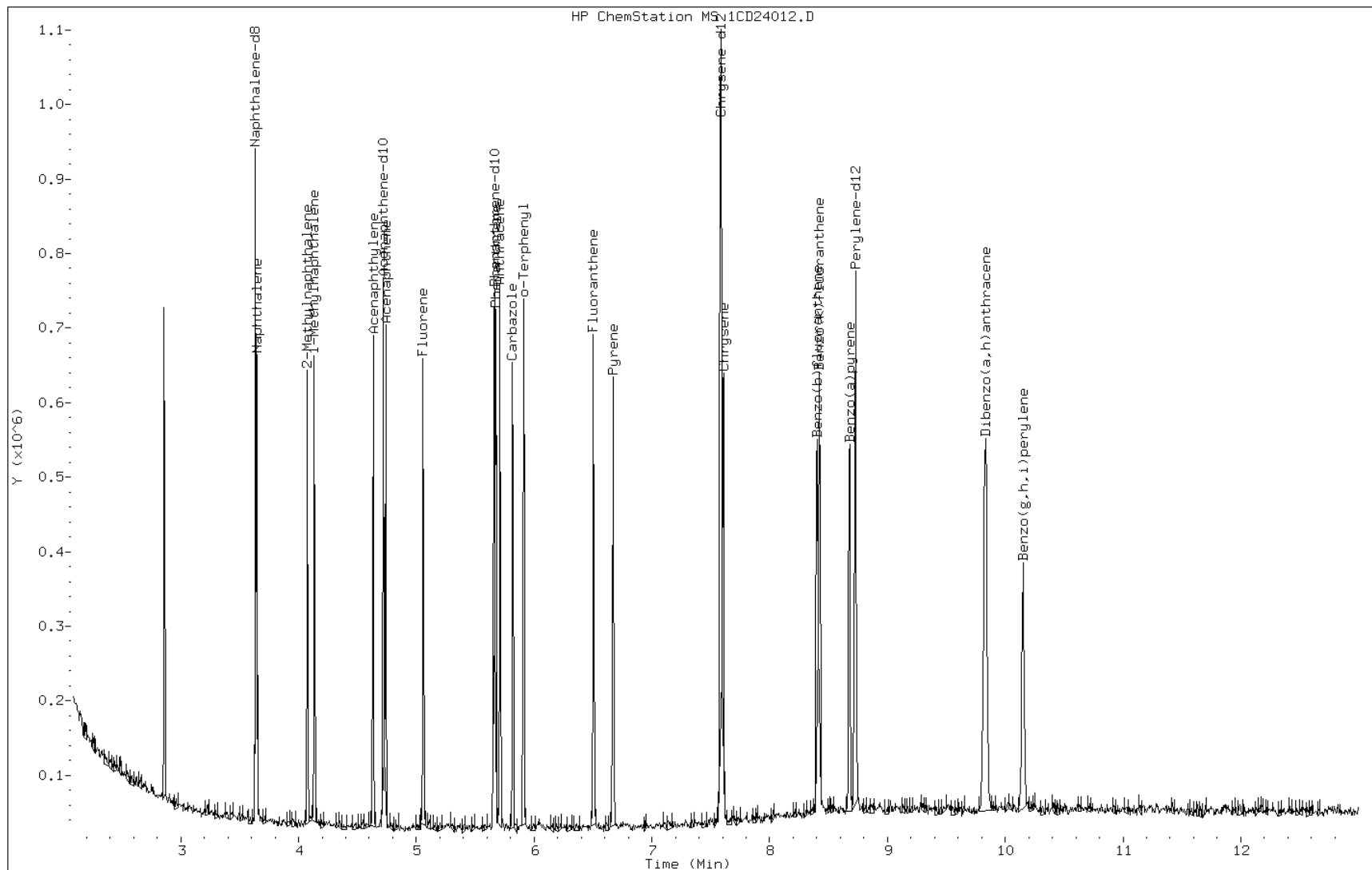
Date: 24-APR-2013 15:29

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531402

Operator: SCC

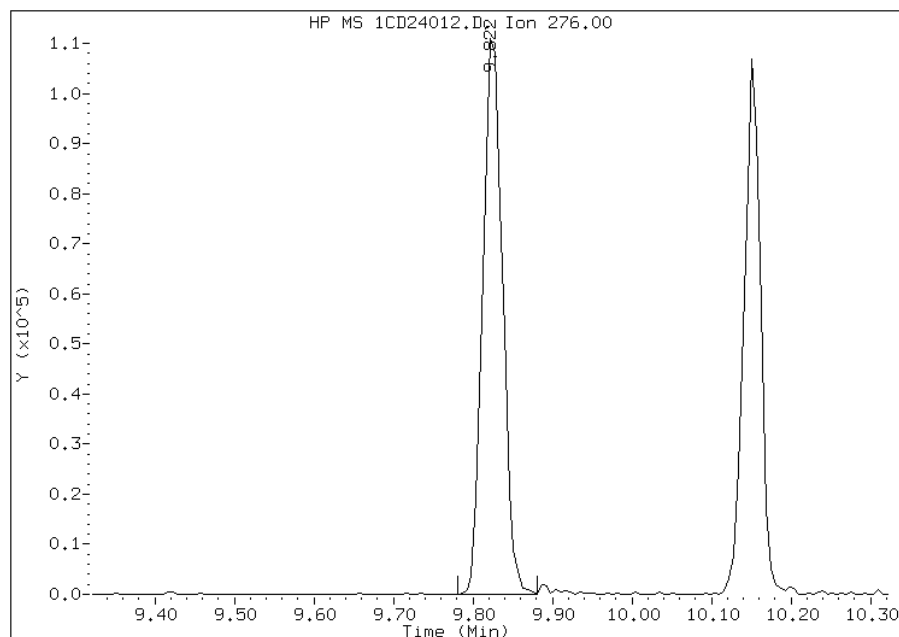


Manual Integration Report

Data File: 1CD24012.D
Inj. Date and Time: 24-APR-2013 15:29
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

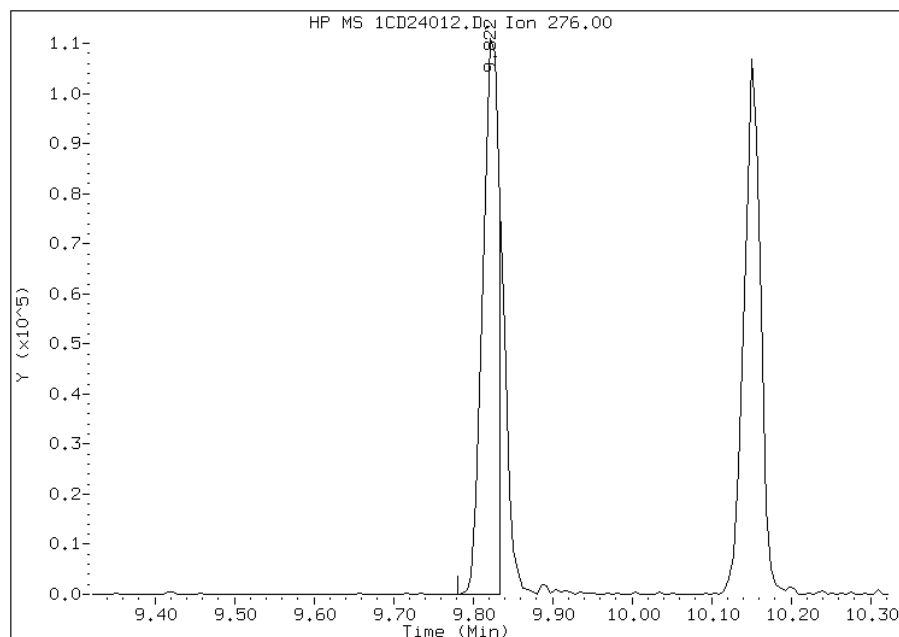
Processing Integration Results

RT: 9.82
Response: 189780
Amount: 36
Conc: 36



Manual Integration Results

RT: 9.82
Response: 158186
Amount: 31
Conc: 31



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:21
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24013.D
 Lab Smp Id: IC-1531403
 Inj Date : 24-APR-2013 15:47
 Operator : SCC
 Smp Info : IC-1531403
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24013.D
 Meth Date : 24-Apr-2013 16:22 BSMC5973.i Quant Type: ISTD
 Cal Date : 24-APR-2013 15:29 Cal File: 1CD24012.D
 Als bottle: 9 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT	SIG					AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
	MASS						(ug/ml)	(ug/ml)
=====	=====		=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		3.633	3.633	(1.000)	154092	40.0000	
* 6 Acenaphthene-d10	164		4.721	4.721	(1.000)	91835	40.0000	
* 10 Phenanthrene-d10	188		5.663	5.663	(1.000)	166249	40.0000	
\$ 14 o-Terphenyl	230		5.910	5.910	(1.044)	129301	50.0000	51.0720(A)
* 18 Chrysene-d12	240		7.592	7.592	(1.000)	195103	40.0000	
* 23 Perylene-d12	264		8.733	8.733	(1.000)	233898	40.0000	
2 Naphthalene	128		3.645	3.645	(1.003)	191564	50.0000	45.2985
3 2-Methylnaphthalene	142		4.074	4.074	(1.121)	117199	50.0000	48.0073
4 1-Methylnaphthalene	142		4.133	4.133	(1.138)	110635	50.0000	40.9284
5 Acenaphthylene	152		4.633	4.633	(0.981)	202374	50.0000	41.1919
7 Acenaphthene	154		4.739	4.739	(1.004)	128735	50.0000	53.8518(A)
9 Fluorene	166		5.057	5.057	(1.071)	153739	50.0000	55.2269(A)
11 Phenanthrene	178		5.674	5.674	(1.002)	236464	50.0000	49.9376
12 Anthracene	178		5.710	5.710	(1.008)	244157	50.0000	47.5689
13 Carbazole	167		5.821	5.821	(1.028)	234016	50.0000	51.1471(A)
15 Fluoranthene	202		6.504	6.504	(1.149)	273177	50.0000	53.3296(A)
16 Pyrene	202		6.674	6.674	(0.879)	302673	50.0000	52.5285(A)
17 Benzo(a)anthracene	228		7.580	7.580	(0.998)	305445	50.0000	52.0317(A)
19 Chrysene	228		7.610	7.610	(1.002)	296655	50.0000	53.2472(A)
20 Benzo(b)fluoranthene	252		8.409	8.409	(0.963)	310324	50.0000	47.9716
21 Benzo(k)fluoranthene	252		8.427	8.427	(0.965)	360897	50.0000	57.3375(A)
22 Benzo(a)pyrene	252		8.686	8.686	(0.995)	313949	50.0000	57.1526(A)
24 Indeno(1,2,3-cd)pyrene	276		9.833	9.833	(1.126)	318480	50.0000	49.5924(M)
25 Dibenzo(a,h)anthracene	278		9.851	9.851	(1.128)	304881	50.0000	49.4898
26 Benzo(g,h,i)perylene	276		10.162	10.162	(1.164)	306375	50.0000	51.8765(A)

QC Flag Legend

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

Data File: 1CD24013.D

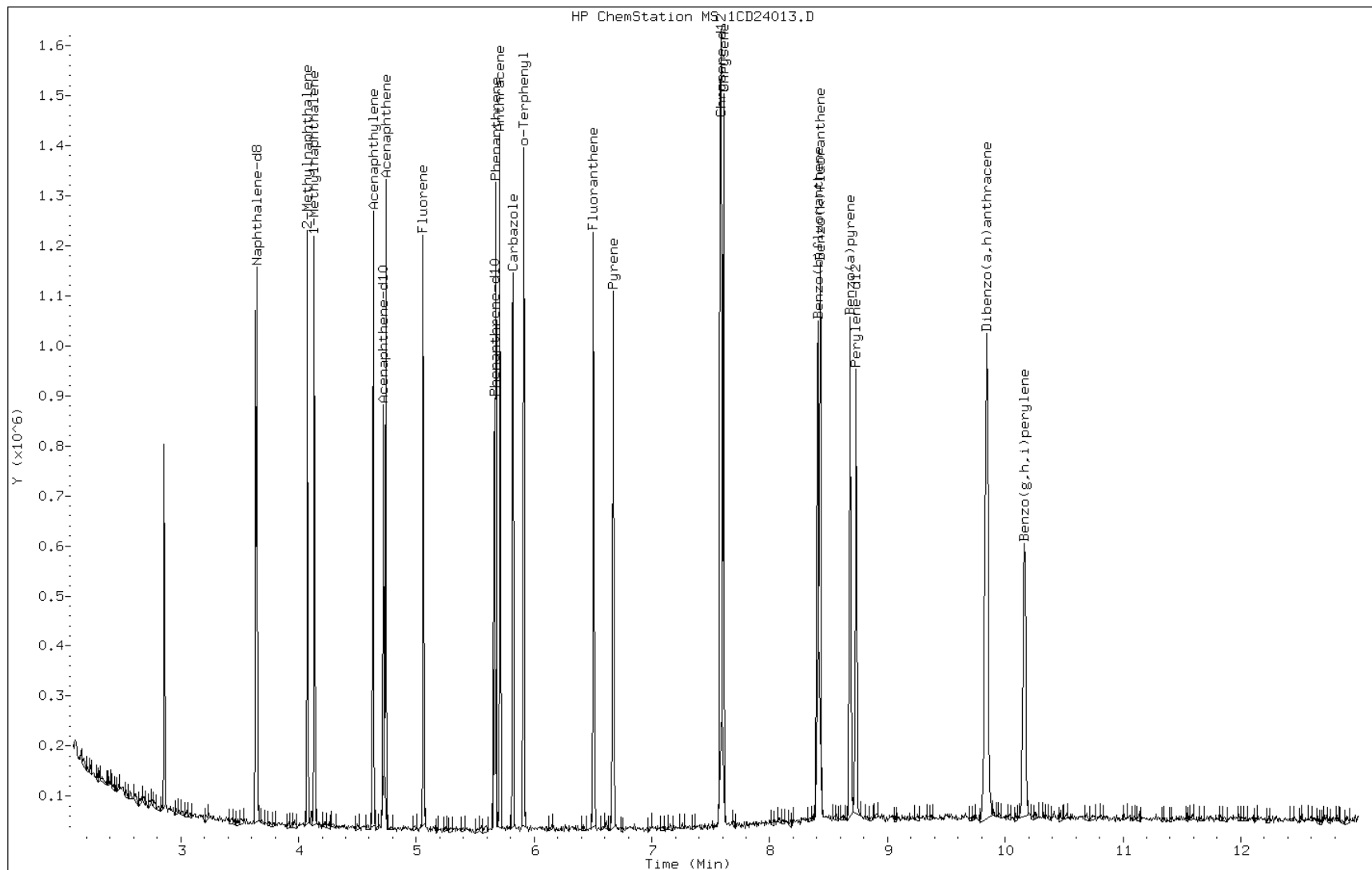
Date: 24-APR-2013 15:47

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531403

Operator: SCC

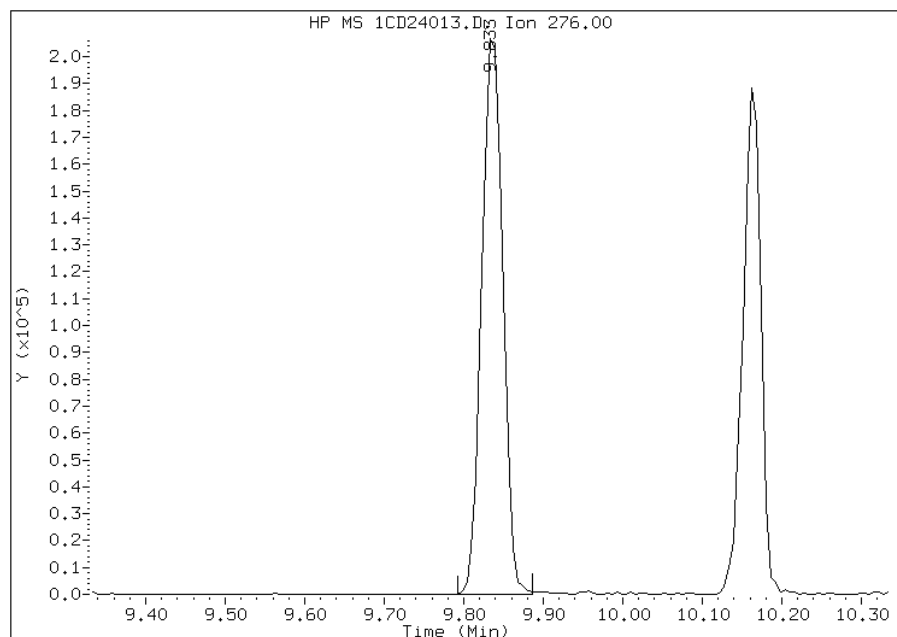


Manual Integration Report

Data File: 1CD24013.D
Inj. Date and Time: 24-APR-2013 15:47
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

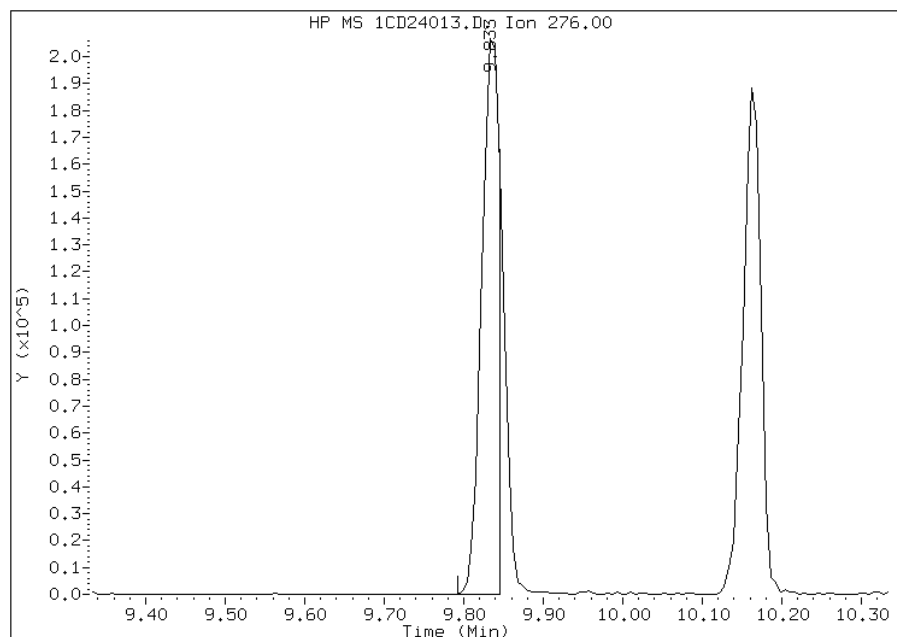
Processing Integration Results

RT: 9.83
Response: 377776
Amount: 50
Conc: 50



Manual Integration Results

RT: 9.83
Response: 318480
Amount: 50
Conc: 50



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:22
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-89459-2 Analy Batch No.: 136164

SDG No.: 68089459-2

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

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibration ID: 2874

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136164/15	1DD04007.D
Level 2	IC 660-136164/16	1DD04008.D
Level 3	IC 660-136164/17	1DD04009.D
Level 4	IC 660-136164/18	1DD04010.D
Level 5	ICIS 660-136164/19	1DD04011.D
Level 6	IC 660-136164/20	1DD04012.D
Level 7	IC 660-136164/21	1DD04013.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.9331 1.0230	0.9606 1.0509	1.0286	0.9649	0.9984	Ave		0.9942			0.0000	4.3		15.0			
2-Methylnaphthalene	0.5806 0.6693	0.6114 0.6984	0.6517	0.6297	0.6515	Ave		0.6418			0.0000	6.0		15.0			
1-Methylnaphthalene	0.5558 0.6314	0.5782 0.6544	0.6189	0.5919	0.6119	Ave		0.6061			0.0000	5.5		15.0			
Acenaphthylene	1.4312 1.8297	1.5518 1.8878	1.7317	1.6795	1.7392	Ave		1.6930			0.0000	9.3		15.0			
Acenaphthene	1.0016 1.0873	0.9902 1.1219	1.0649	1.0164	1.0329	Ave		1.0450			0.0000	4.6		15.0			
Fluorene	1.1332 1.3072	1.1795 1.3301	1.2333	1.2265	1.2526	Ave		1.2375			0.0000	5.5		15.0			
Phenanthrene	1.0628 1.1227	1.0409 1.1914	1.1226	1.0753	1.0969	Ave		1.1018			0.0000	4.5		15.0			
Anthracene	0.9667 1.1508	1.0104 1.2102	1.1116	1.0846	1.1206	Ave		1.0936			0.0000	7.6		15.0			
Carbazole	0.8539 0.9974	0.9170 1.0575	0.9788	0.9568	0.9906	Ave		0.9646			0.0000	6.7		15.0			
Fluoranthene	1.0349 1.1765	1.0636 1.2407	1.1552	1.1188	1.1468	Ave		1.1338			0.0000	6.1		15.0			
Pyrene	1.1042 1.2400	1.1445 1.2796	1.2302	1.1952	1.2147	Ave		1.2012			0.0000	5.0		15.0			
Benzo[a]anthracene	1.5223 1.0884	1.1349 1.0935	1.1146	1.0605	1.0812	Ave		1.1565			0.0000	14.1		15.0			
Chrysene	1.1462 1.0803	1.0503 1.1335	1.0831	1.0383	1.0590	Ave		1.0844			0.0000	3.8		15.0			
Benzo[b]fluoranthene	0.9638 1.0305	0.9264 1.0697	1.0233	0.9705	1.0102	Ave		0.9992			0.0000	4.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Tampa Job No.: 680-89459-2 Analy Batch No.: 136164

SDG No.: 68089459-2

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

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibration ID: 2874

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	0.9941 1.0870	1.0278 1.1123	1.0413	1.0574	1.0488	Ave		1.0527			0.0000	3.7		15.0			
Benzo[a]pyrene	0.9363 1.0554	0.9330 1.0817	1.0086	0.9978	1.0150	Ave		1.0040			0.0000	5.5		15.0			
Indeno[1,2,3-cd]pyrene	0.9719 1.1444	1.0047 1.2203	1.0673	1.0253	1.0598	Ave		1.0705			0.0000	8.0		15.0			
Dibenz(a,h)anthracene	1.0008 1.0474	0.9200 1.0891	1.0022	0.9846	1.0127	Ave		1.0081			0.0000	5.2		15.0			
Benzo[g,h,i]perylene	0.9959 1.0588	1.0032 1.0675	1.0494	1.0184	1.0221	Ave		1.0308			0.0000	2.7		15.0			
o-Terphenyl	0.5239 0.6240	0.5611 0.6847	0.6139	0.5898	0.6214	Ave		0.6027			0.0000	8.5		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.: 680-89459-2 Analy Batch No.: 136164

SDG No.: 68089459-2

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

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibration ID: 2874

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136164/15	1DD04007.D
Level 2	IC 660-136164/16	1DD04008.D
Level 3	IC 660-136164/17	1DD04009.D
Level 4	IC 660-136164/18	1DD04010.D
Level 5	ICIS 660-136164/19	1DD04011.D
Level 6	IC 660-136164/20	1DD04012.D
Level 7	IC 660-136164/21	1DD04013.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	11503 1777021	59216 3211548	316194	614716	1235557	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	7158 1162560	37688 2134320	200332	401151	806286	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	6852 1096847	35645 1999874	190230	377068	757317	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	10298 1852399	56340 3396591	314191	620756	1275622	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	7207 1100779	35951 2018481	193205	375673	757590	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	8154 1323451	42826 2393163	223769	453336	918747	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	12866 1932978	63070 3534794	338739	657435	1331875	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	11703 1981347	61222 3590722	335430	663091	1360668	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	10338 1717245	55563 3137679	295345	584967	1202897	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	12529 2025512	64445 3681257	348578	684049	1392506	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	13274 2181708	69252 3965627	374480	738839	1496990	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	18301 1914899	68675 3388838	339292	655565	1332372	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	13779 1900592	63553 3512644	329706	641842	1305118	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	12005 1811151	57946 3290902	323060	612455	1270704	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	12382 1910468	64288 3421834	328752	667284	1319239	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.: 680-89459-2 Analy Batch No.: 136164

SDG No.: 68089459-2

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

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibration ID: 2874

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
Benzo[a]pyrene	PRY	Ave	11662 1854979	58354 3327888	318431	629684	1276688	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	12106 2011375	62840 3754268	336963	647015	1333044	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	12466 1840819	57541 3350541	316396	621340	1273836	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	12405 1860821	62750 3284166	331324	642692	1285637	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	6343 1074388	33997 2031596	185249	360585	754512	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04007.D
Lab Smp Id: IC-1531396
Inj Date : 04-APR-2013 13:49
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531396
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS		
		QUANT	SIG			CAL-AMT	ON-COL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
=====		=====	=====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	6.091	6.091	(1.000)	2465524	40.0000	
*	6 Acenaphthene-d10	164	7.766	7.766	(1.000)	1439075	40.0000	
*	9 Phenanthrene-d10	188	9.023	9.023	(1.000)	2421253	40.0000	
\$	13 o-Terphenyl	230	9.329	9.329	(1.034)	6343	0.20000	0.17
*	17 Chrysene-d12	240	11.338	11.338	(1.000)	2404329	40.0000	
*	22 Perylene-d12	264	13.165	13.165	(1.000)	2491199	40.0000	
	2 Naphthalene	128	6.109	6.109	(1.003)	11503	0.20000	0.19
	3 2-Methylnaphthalene	142	6.814	6.814	(1.119)	7158	0.20000	0.18
	4 1-Methylnaphthalene	142	6.908	6.908	(1.134)	6852	0.20000	0.18
	5 Acenaphthylene	152	7.637	7.637	(0.983)	10298	0.20000	0.17
	7 Acenaphthene	154	7.789	7.789	(1.003)	7207	0.20000	0.19
	8 Fluorene	166	8.236	8.236	(1.061)	8154	0.20000	0.18
	10 Phenanthrene	178	9.041	9.041	(1.002)	12866	0.20000	0.19
	11 Anthracene	178	9.082	9.082	(1.007)	11703	0.20000	0.18
	12 Carbazole	167	9.223	9.223	(1.022)	10338	0.20000	0.18
	14 Fluoranthene	202	10.022	10.022	(1.111)	12529	0.20000	0.18
	15 Pyrene	202	10.210	10.210	(0.901)	13274	0.20000	0.18
	16 Benzo(a)anthracene	228	11.321	11.321	(0.998)	18301	0.20000	0.28
	18 Chrysene	228	11.356	11.356	(1.002)	13779	0.20000	0.21
	19 Benzo(b)fluoranthene	252	12.613	12.613	(0.958)	12005	0.20000	0.19
	20 Benzo(k)fluoranthene	252	12.648	12.648	(0.961)	12382	0.20000	0.19
	21 Benzo(a)pyrene	252	13.060	13.060	(0.992)	11662	0.20000	0.19
	23 Indeno(1,2,3-cd)pyrene	276	14.734	14.734	(1.119)	12106	0.20000	0.18(M)
	24 Dibenzo(a,h)anthracene	278	14.758	14.758	(1.121)	12466	0.20000	0.20(M)
	25 Benzo(g,h,i)perylene	276	15.175	15.175	(1.153)	12405	0.20000	0.19

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD04007.D

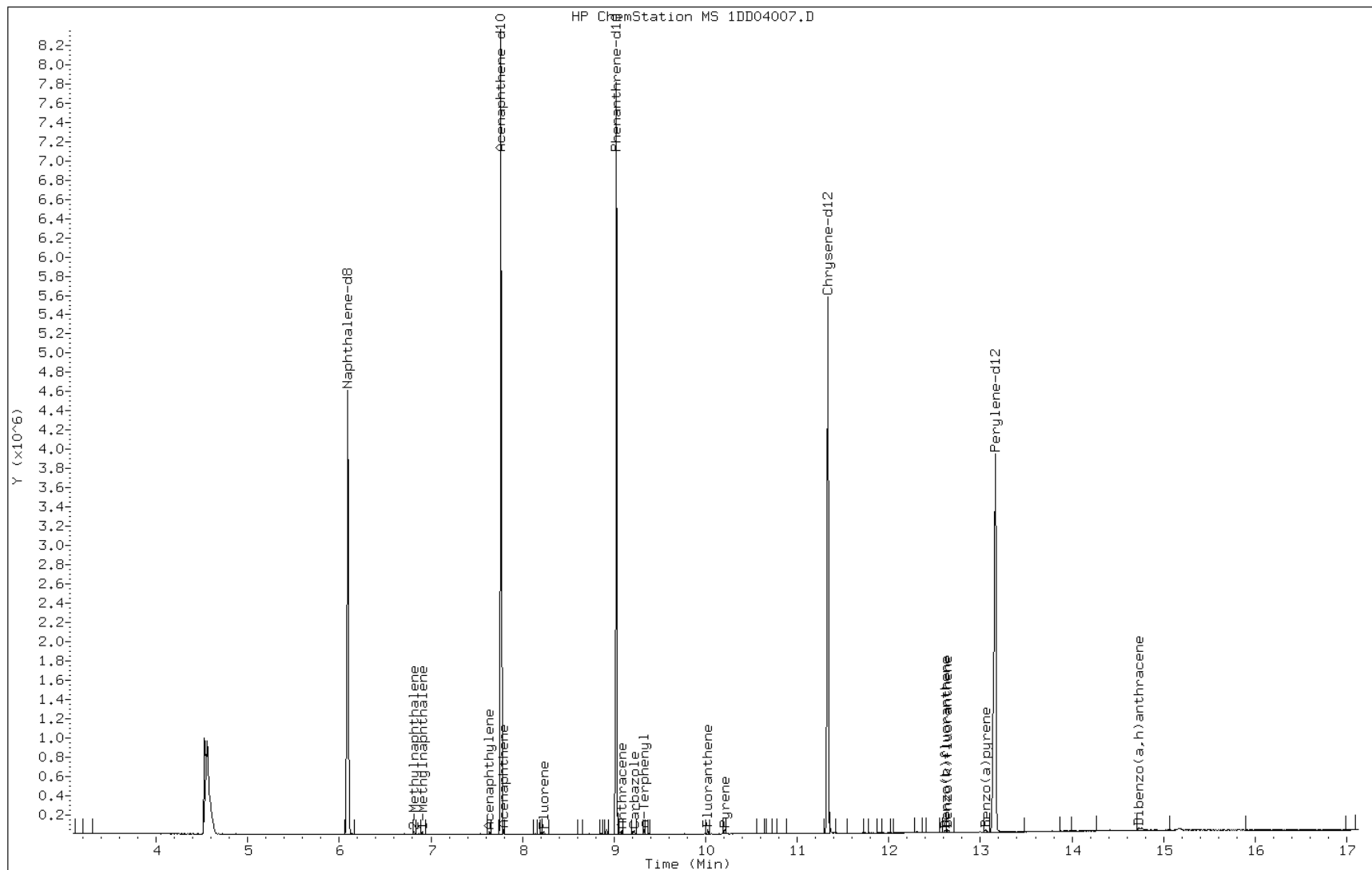
Date: 04-APR-2013 13:49

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531396

Operator: SCC



Manual Integration Report

Data File: 1DD04007.D
Inj. Date and Time: 04-APR-2013 13:49
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

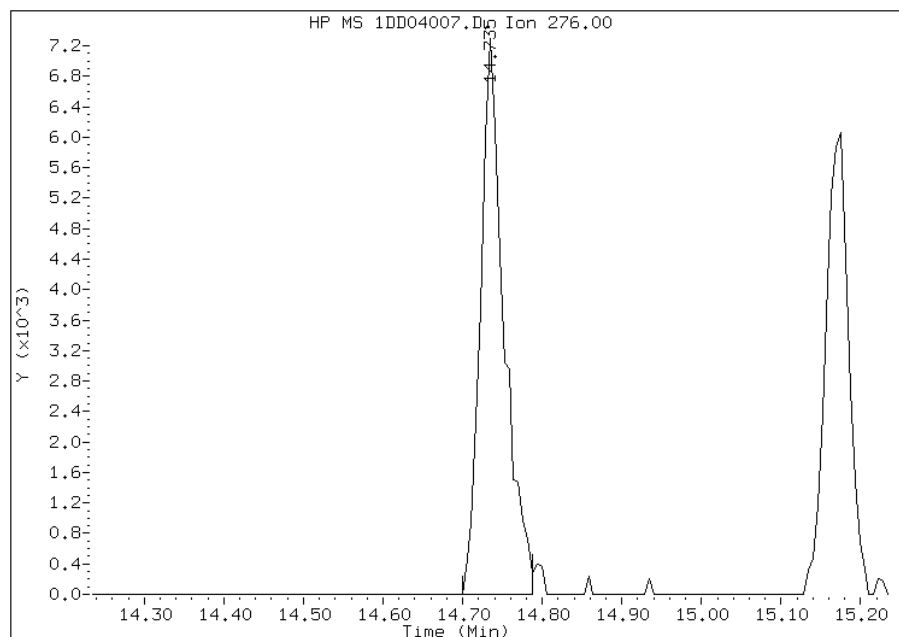
Processing Integration Results

RT: 14.73

Response: 14910

Amount: 0

Conc: 0



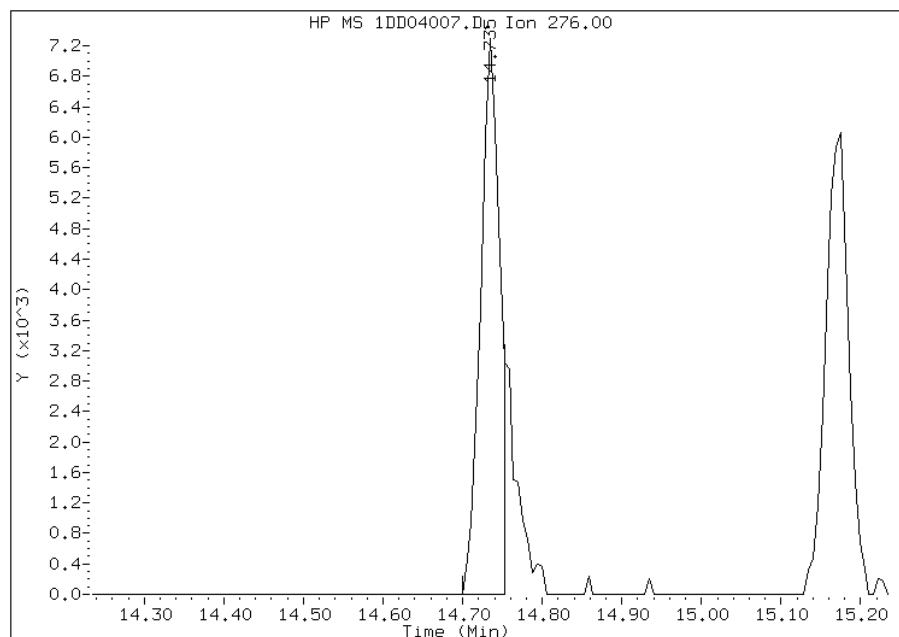
Manual Integration Results

RT: 14.73

Response: 12106

Amount: 0

Conc: 0



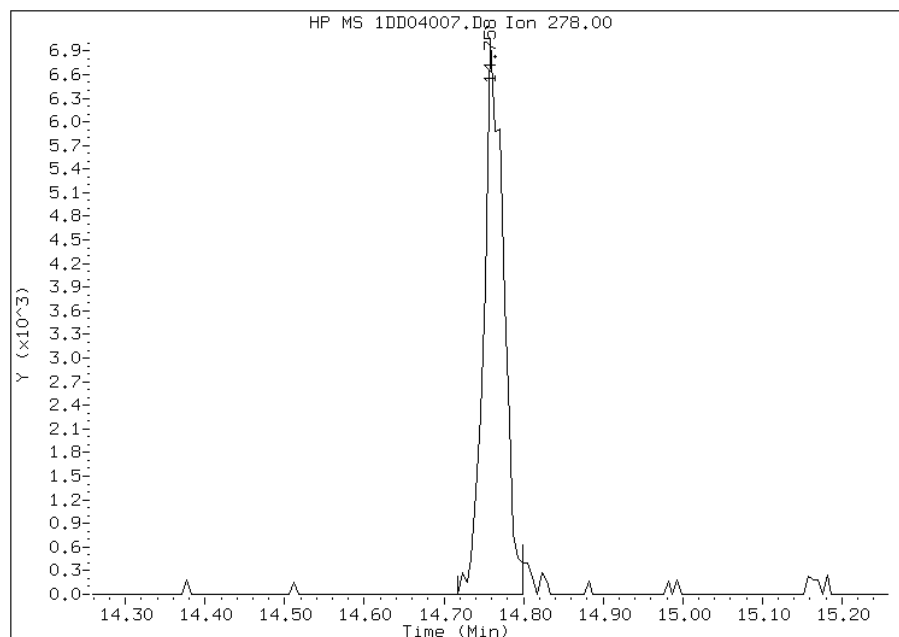
Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DD04007.D
Inj. Date and Time: 04-APR-2013 13:49
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/05/2013

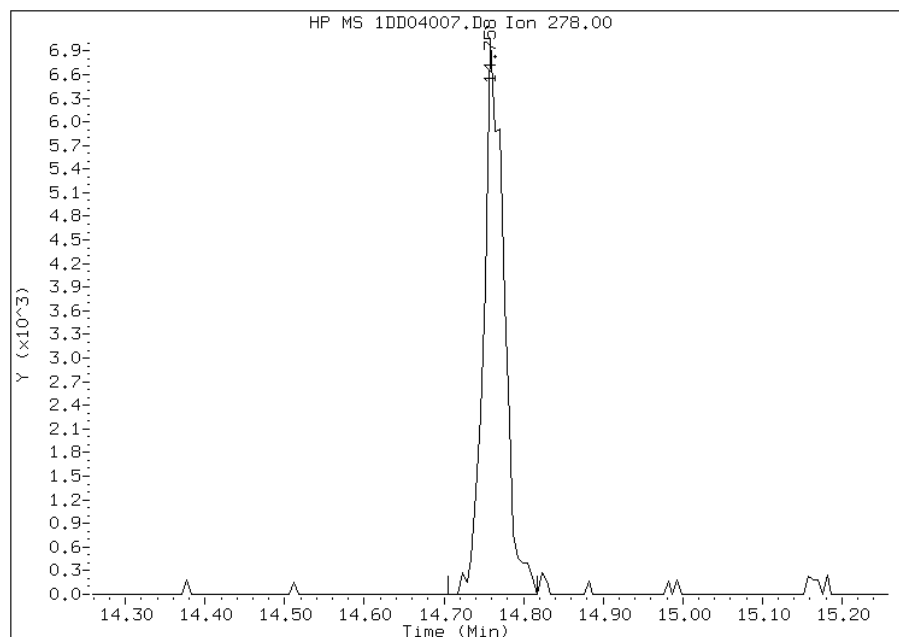
Processing Integration Results

RT: 14.76
Response: 12250
Amount: 0
Conc: 0



Manual Integration Results

RT: 14.76
Response: 12466
Amount: 0
Conc: 0



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04008.D
Lab Smp Id: IC-1531398
Inj Date : 04-APR-2013 14:11
Operator : SCC
Smp Info : IC-1531398
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 13:49 Cal File: 1DD04007.D
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000
Inst ID: BSMSD.i
Compound Sublist: pah.sub

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.089	6.089	(1.000)	2465772	40.0000	
* 6 Acenaphthene-d10	164	7.769	7.769	(1.000)	1452284	40.0000	
* 9 Phenanthrene-d10	188	9.027	9.027	(1.000)	2423707	40.0000	
\$ 13 o-Terphenyl	230	9.332	9.332	(1.034)	33997	1.00000	0.93
* 17 Chrysene-d12	240	11.336	11.336	(1.000)	2420423	40.0000	
* 22 Perylene-d12	264	13.163	13.163	(1.000)	2501899	40.0000	
2 Naphthalene	128	6.112	6.112	(1.004)	59216	1.00000	0.97
3 2-Methylnaphthalene	142	6.817	6.817	(1.120)	37688	1.00000	0.95
4 1-Methylnaphthalene	142	6.911	6.911	(1.135)	35645	1.00000	0.95
5 Acenaphthylene	152	7.640	7.640	(0.983)	56340	1.00000	0.92
7 Acenaphthene	154	7.793	7.793	(1.003)	35951	1.00000	0.95
8 Fluorene	166	8.233	8.233	(1.060)	42826	1.00000	0.95
10 Phenanthrene	178	9.038	9.038	(1.001)	63070	1.00000	0.94
11 Anthracene	178	9.080	9.080	(1.006)	61222	1.00000	0.92
12 Carbazole	167	9.221	9.221	(1.021)	55563	1.00000	0.95
14 Fluoranthene	202	10.020	10.020	(1.110)	64445	1.00000	0.94
15 Pyrene	202	10.208	10.208	(0.900)	69252	1.00000	0.95
16 Benzo(a)anthracene	228	11.318	11.318	(0.998)	68675	1.00000	1.0
18 Chrysene	228	11.359	11.359	(1.002)	63553	1.00000	0.97
19 Benzo(b)fluoranthene	252	12.611	12.611	(0.958)	57946	1.00000	0.93
20 Benzo(k)fluoranthene	252	12.646	12.646	(0.961)	64288	1.00000	0.98
21 Benzo(a)pyrene	252	13.057	13.057	(0.992)	58354	1.00000	0.93
23 Indeno(1,2,3-cd)pyrene	276	14.732	14.732	(1.119)	62840	1.00000	0.94(M)
24 Dibenzo(a,h)anthracene	278	14.761	14.761	(1.121)	57541	1.00000	0.91(M)
25 Benzo(g,h,i)perylene	276	15.167	15.167	(1.152)	62750	1.00000	0.97

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD04008.D

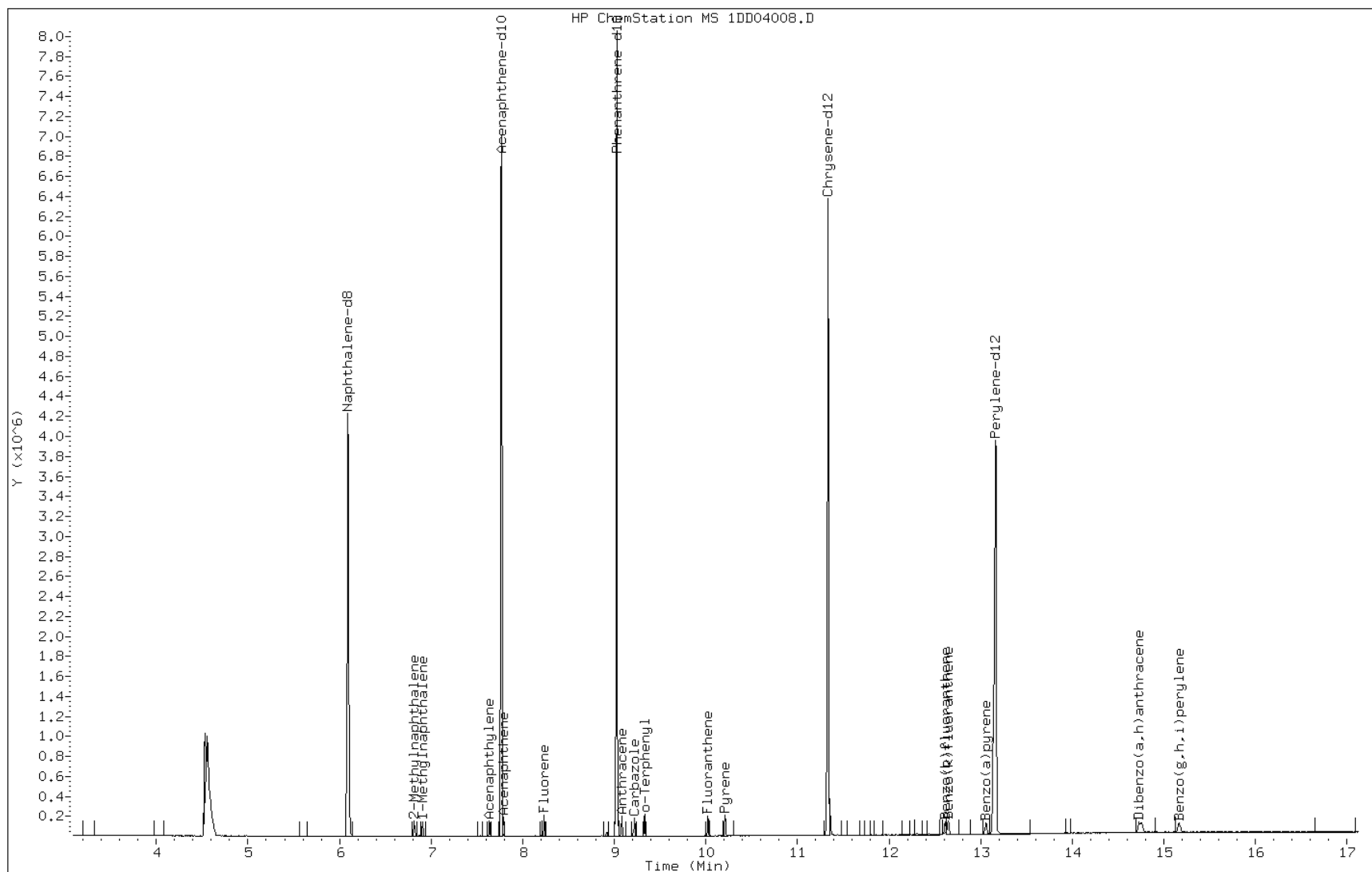
Date: 04-APR-2013 14:11

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531398

Operator: SCC

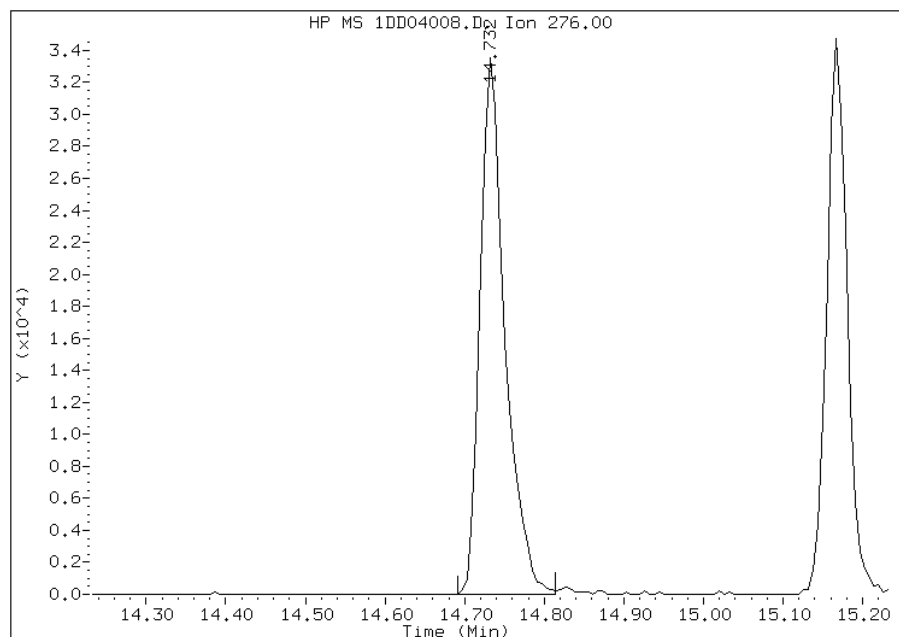


Manual Integration Report

Data File: 1DD04008.D
Inj. Date and Time: 04-APR-2013 14:11
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

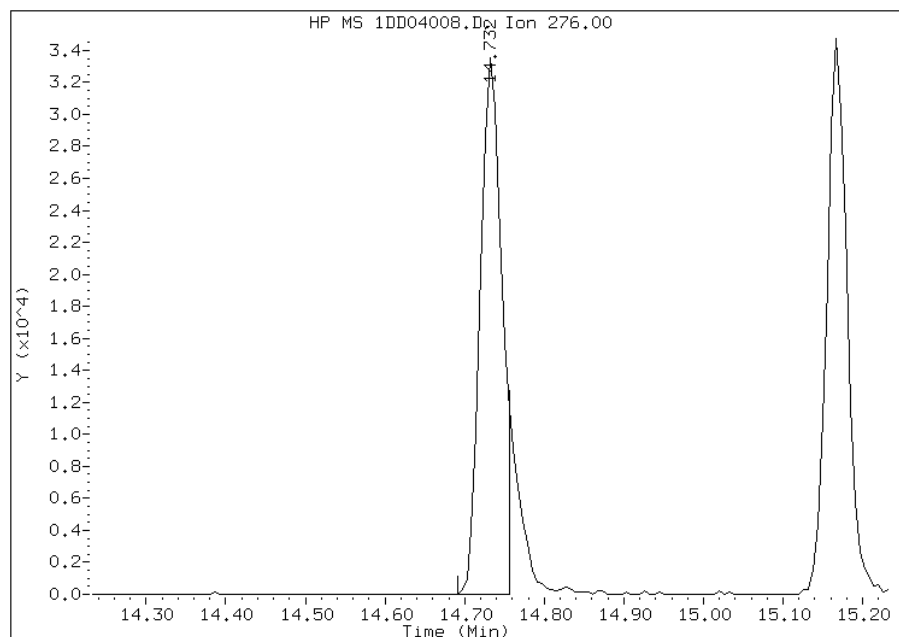
Processing Integration Results

RT: 14.73
Response: 72512
Amount: 1
Conc: 1



Manual Integration Results

RT: 14.73
Response: 62840
Amount: 1
Conc: 1



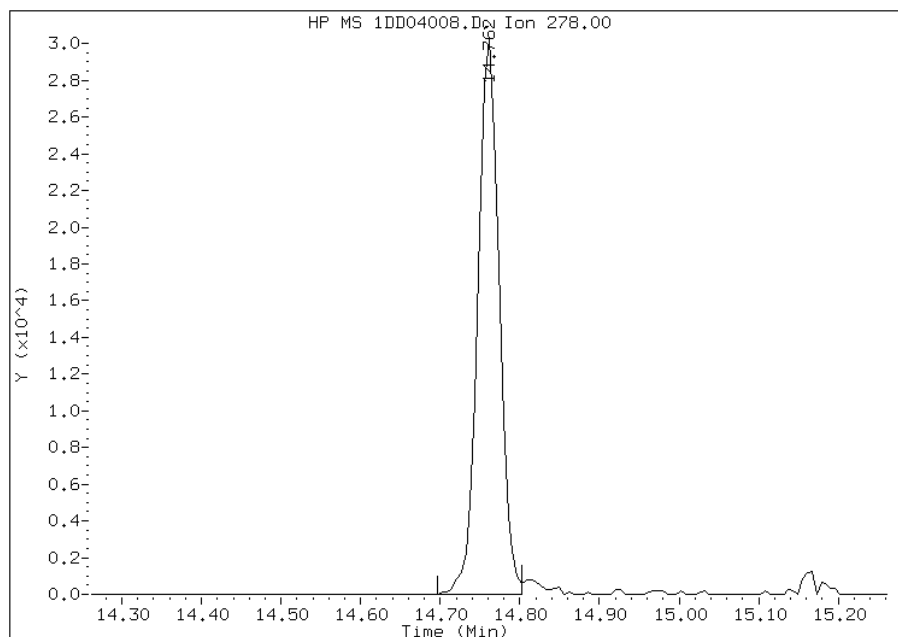
Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:29
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DD04008.D
Inj. Date and Time: 04-APR-2013 14:11
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/05/2013

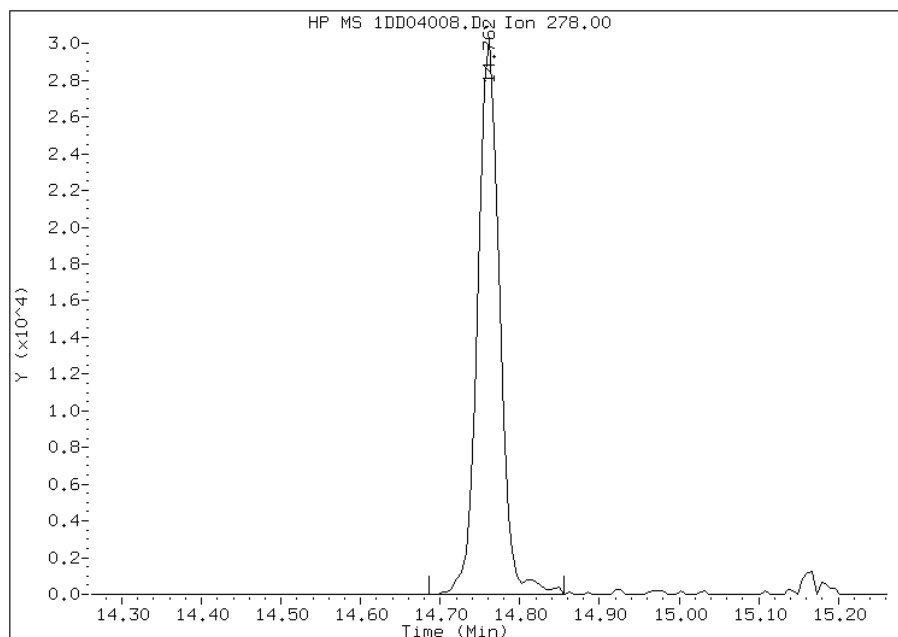
Processing Integration Results

RT: 14.76
Response: 56125
Amount: 1
Conc: 1



Manual Integration Results

RT: 14.76
Response: 57541
Amount: 1
Conc: 1



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04009.D
 Lab Smp Id: IC-1531399
 Inj Date : 04-APR-2013 14:34
 Operator : SCC
 Smp Info : IC-1531399
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
 Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
 Cal Date : 04-APR-2013 14:11 Cal File: 1DD04008.D
 Als bottle: 7 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

						AMOUNTS		
		QUANT	SIG			CAL-AMT	ON-COL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
=====		=====	=====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	6.093	6.093	(1.000)	2459101	40.0000	
*	6 Acenaphthene-d10	164	7.768	7.768	(1.000)	1451469	40.0000	
*	9 Phenanthrene-d10	188	9.025	9.025	(1.000)	2413975	40.0000	
\$	13 o-Terphenyl	230	9.331	9.331	(1.034)	185249	5.00000	5.1
*	17 Chrysene-d12	240	11.340	11.340	(1.000)	2435324	40.0000	
*	22 Perylene-d12	264	13.167	13.167	(1.000)	2525708	40.0000	
	2 Naphthalene	128	6.111	6.111	(1.003)	316194	5.00000	5.2
	3 2-Methylnaphthalene	142	6.816	6.816	(1.119)	200332	5.00000	5.1
	4 1-Methylnaphthalene	142	6.910	6.910	(1.134)	190230	5.00000	5.1
	5 Acenaphthylene	152	7.639	7.639	(0.983)	314191	5.00000	5.1
	7 Acenaphthene	154	7.791	7.791	(1.003)	193205	5.00000	5.1
	8 Fluorene	166	8.232	8.232	(1.060)	223769	5.00000	5.0
	10 Phenanthrene	178	9.043	9.043	(1.002)	338739	5.00000	5.1
	11 Anthracene	178	9.084	9.084	(1.007)	335430	5.00000	5.1
	12 Carbazole	167	9.219	9.219	(1.021)	295345	5.00000	5.1
	14 Fluoranthene	202	10.024	10.024	(1.111)	348578	5.00000	5.1
	15 Pyrene	202	10.212	10.212	(0.901)	374480	5.00000	5.1
	16 Benzo(a)anthracene	228	11.323	11.323	(0.998)	339292	5.00000	5.1
	18 Chrysene	228	11.358	11.358	(1.002)	329706	5.00000	5.0
	19 Benzo(b)fluoranthene	252	12.615	12.615	(0.958)	323060	5.00000	5.1
	20 Benzo(k)fluoranthene	252	12.650	12.650	(0.961)	328752	5.00000	4.9
	21 Benzo(a)pyrene	252	13.062	13.062	(0.992)	318431	5.00000	5.0
	23 Indeno(1,2,3-cd)pyrene	276	14.742	14.742	(1.120)	336963	5.00000	5.0(M)
	24 Dibenzo(a,h)anthracene	278	14.766	14.766	(1.121)	316396	5.00000	5.0
	25 Benzo(g,h,i)perylene	276	15.177	15.177	(1.153)	331324	5.00000	5.1

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD04009.D

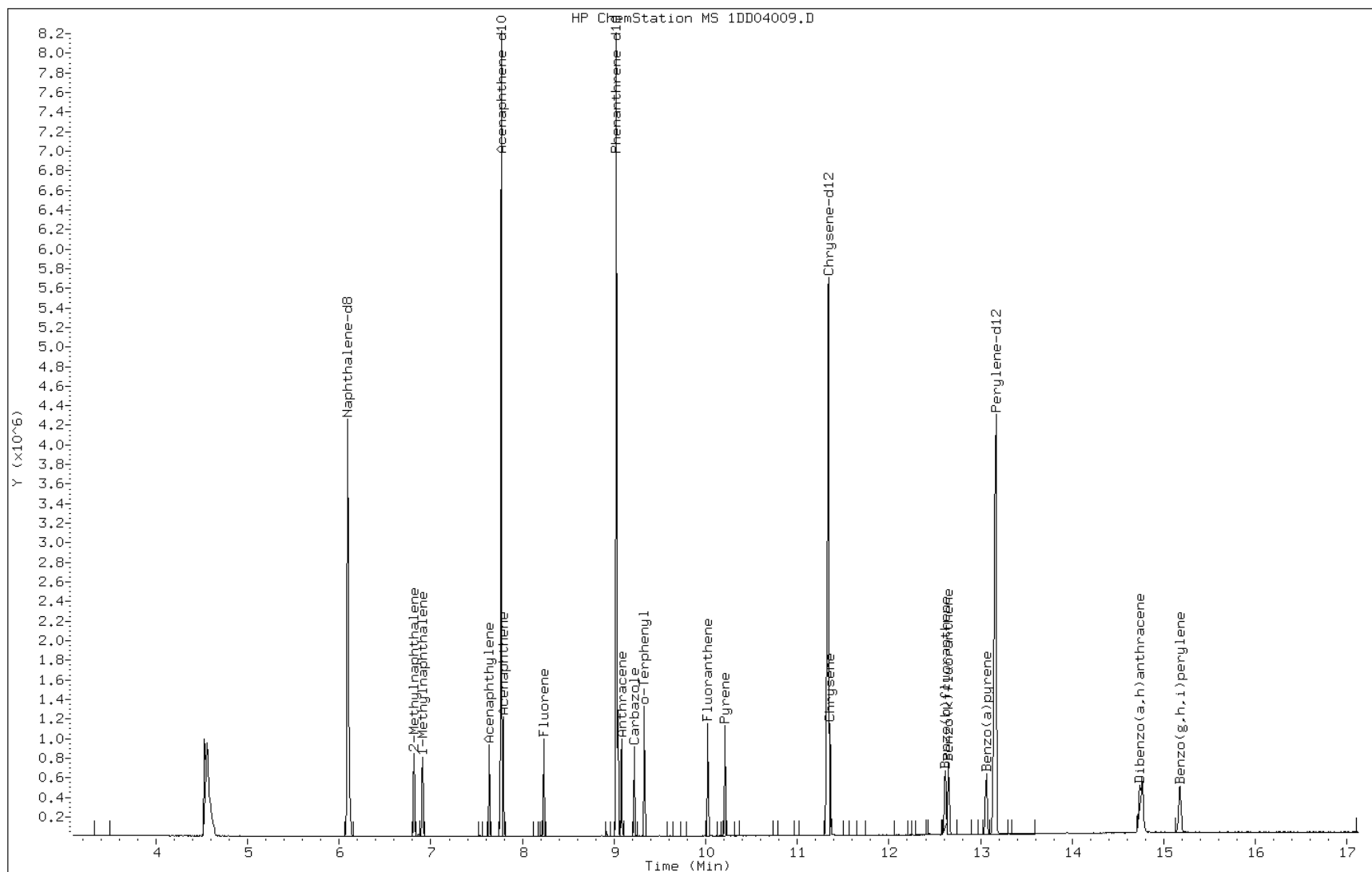
Date: 04-APR-2013 14:34

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531399

Operator: SCC

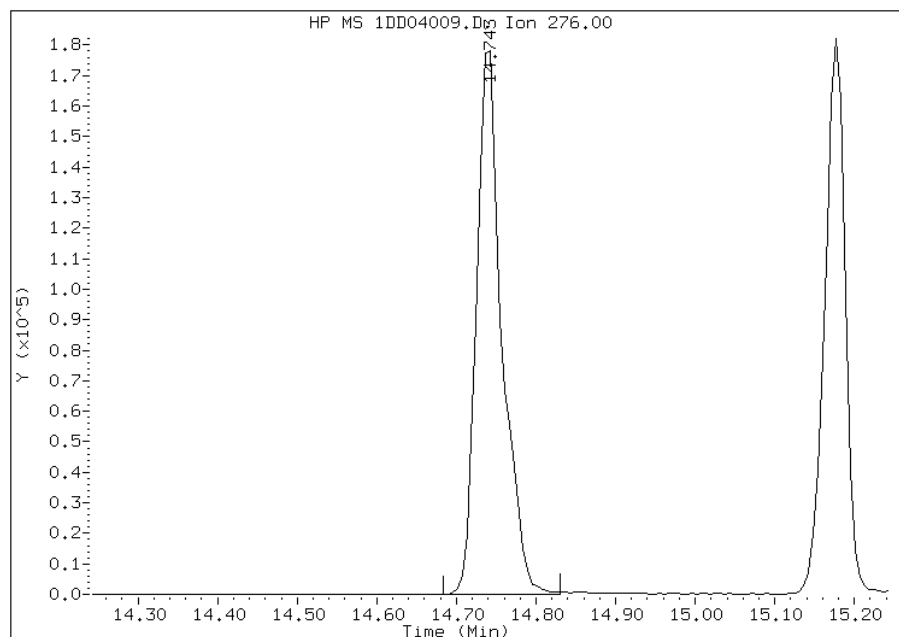


Manual Integration Report

Data File: 1DD04009.D
Inj. Date and Time: 04-APR-2013 14:34
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

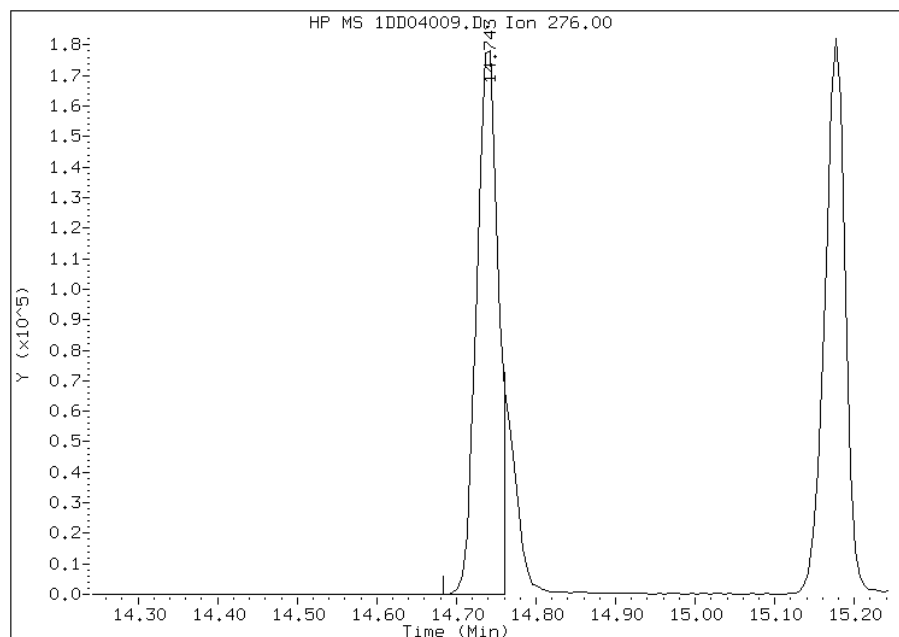
Processing Integration Results

RT: 14.74
Response: 395308
Amount: 5
Conc: 5



Manual Integration Results

RT: 14.74
Response: 336963
Amount: 5
Conc: 5



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:29
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04010.D
 Lab Smp Id: IC-1531400
 Inj Date : 04-APR-2013 14:57
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : IC-1531400
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
 Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
 Cal Date : 04-APR-2013 14:34 Cal File: 1DD04009.D
 Als bottle: 8 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

							AMOUNTS	
QUANT SIG							CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	
* 1 Naphthalene-d8	136	6.093	6.093	(1.000)	2548377	40.0000		
* 6 Acenaphthene-d10	164	7.767	7.767	(1.000)	1478460	40.0000		
* 9 Phenanthrene-d10	188	9.025	9.025	(1.000)	2445573	40.0000		
\$ 13 o-Terphenyl	230	9.330	9.330	(1.034)	360585	10.0000	9.8	
* 17 Chrysene-d12	240	11.340	11.340	(1.000)	2472736	40.0000		
* 22 Perylene-d12	264	13.167	13.167	(1.000)	2524268	40.0000		
2 Naphthalene	128	6.110	6.110	(1.003)	614716	10.0000	9.7	
3 2-Methylnaphthalene	142	6.816	6.816	(1.119)	401151	10.0000	9.8	
4 1-Methylnaphthalene	142	6.910	6.910	(1.134)	377068	10.0000	9.8	
5 Acenaphthylene	152	7.638	7.638	(0.983)	620756	10.0000	9.9	
7 Acenaphthene	154	7.791	7.791	(1.003)	375673	10.0000	9.7	
8 Fluorene	166	8.237	8.237	(1.061)	453336	10.0000	9.9	
10 Phenanthrene	178	9.042	9.042	(1.002)	657435	10.0000	9.8	
11 Anthracene	178	9.083	9.083	(1.007)	663091	10.0000	9.9	
12 Carbazole	167	9.224	9.224	(1.022)	584967	10.0000	9.9	
14 Fluoranthene	202	10.024	10.024	(1.111)	684049	10.0000	9.9	
15 Pyrene	202	10.212	10.212	(0.901)	738839	10.0000	9.9	
16 Benzo(a)anthracene	228	11.322	11.322	(0.998)	655565	10.0000	9.7	
18 Chrysene	228	11.363	11.363	(1.002)	641842	10.0000	9.6	
19 Benzo(b)fluoranthene	252	12.621	12.621	(0.959)	612455	10.0000	9.7	
20 Benzo(k)fluoranthene	252	12.656	12.656	(0.961)	667284	10.0000	10	
21 Benzo(a)pyrene	252	13.067	13.067	(0.992)	629684	10.0000	9.9	
23 Indeno(1,2,3-cd)pyrene	276	14.747	14.747	(1.120)	647015	10.0000	9.6(M)	
24 Dibenzo(a,h)anthracene	278	14.777	14.777	(1.122)	621340	10.0000	9.8	
25 Benzo(g,h,i)perylene	276	15.188	15.188	(1.153)	642692	10.0000	9.9	

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD04010.D

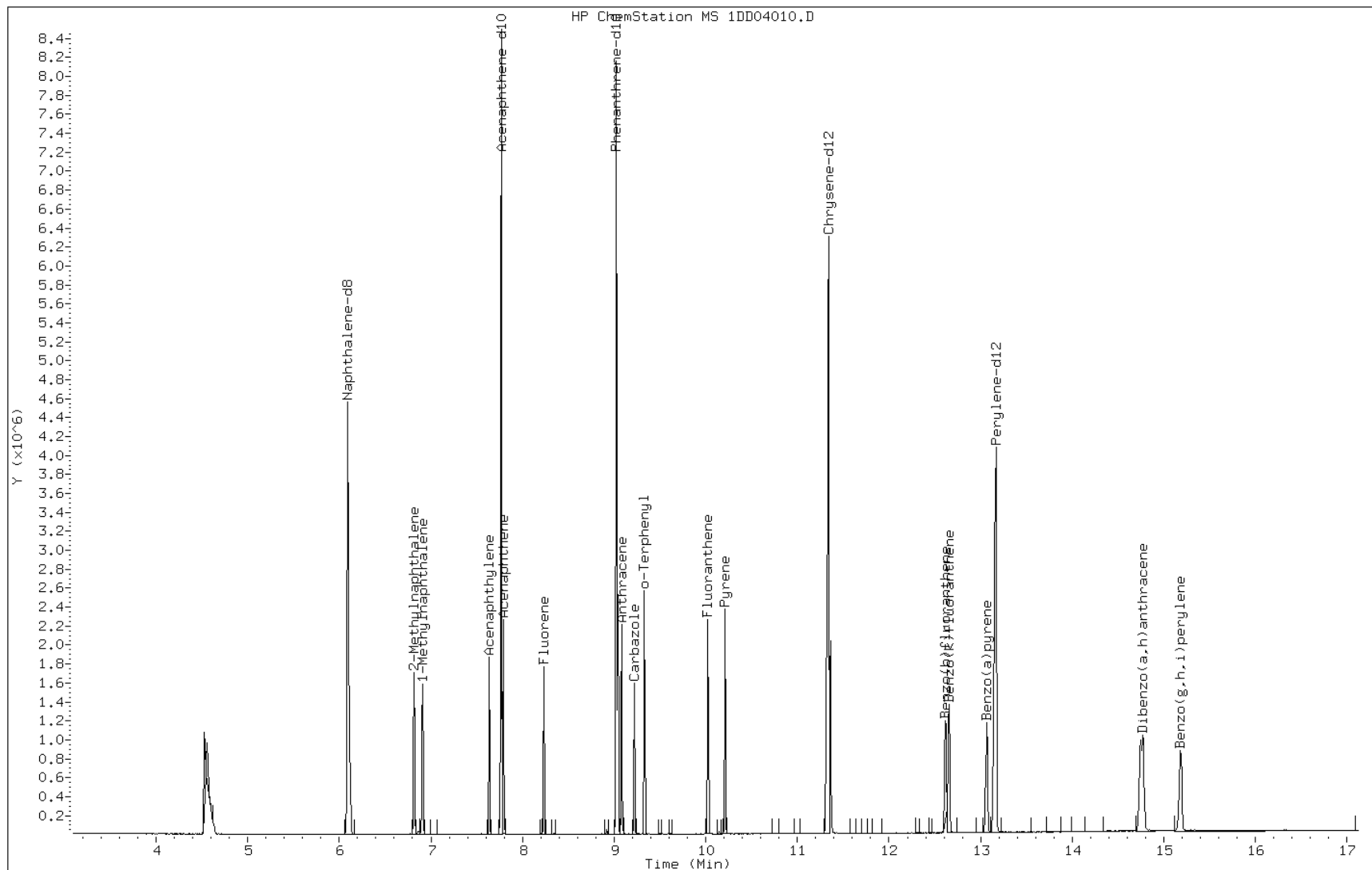
Date: 04-APR-2013 14:57

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531400

Operator: SCC

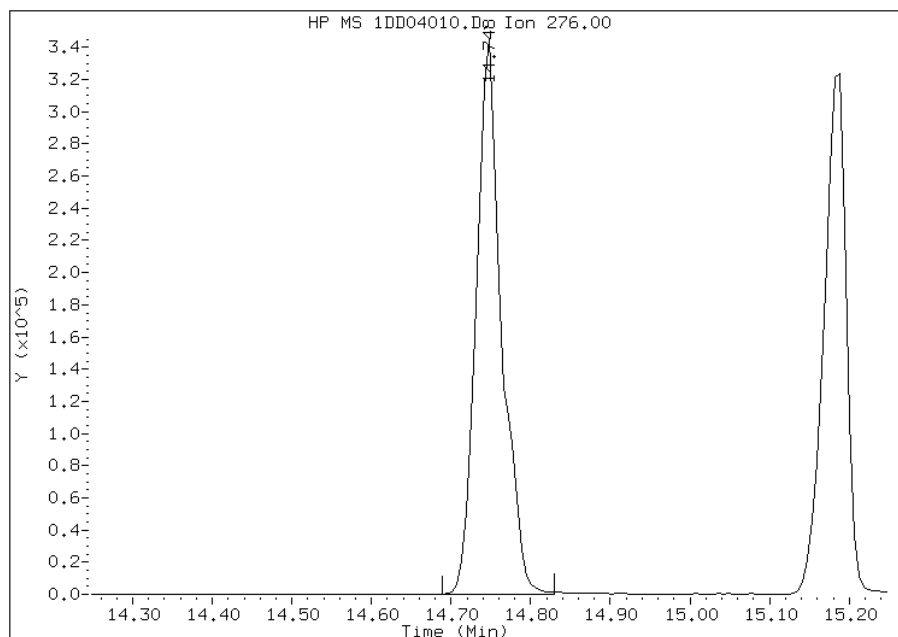


Manual Integration Report

Data File: 1DD04010.D
Inj. Date and Time: 04-APR-2013 14:57
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

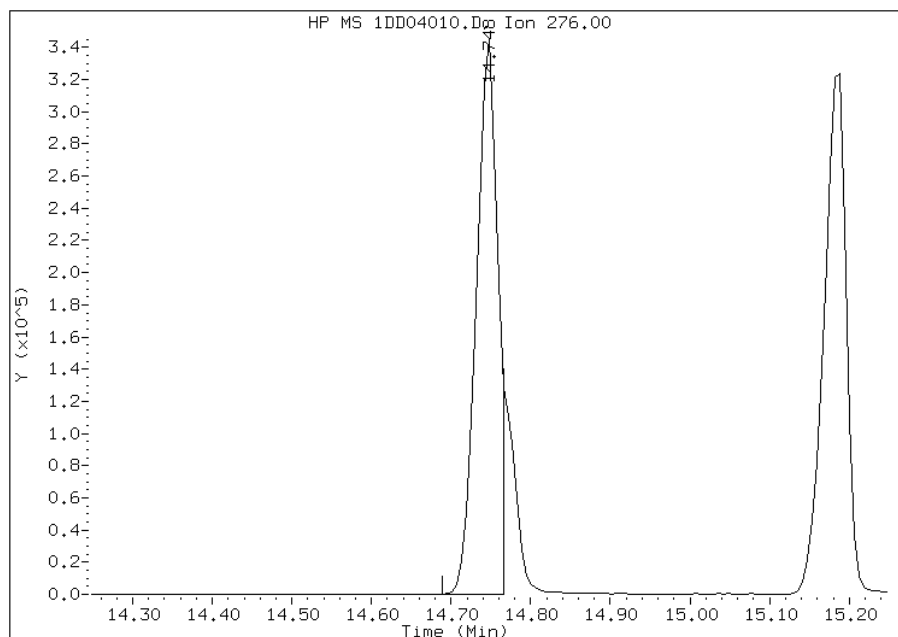
Processing Integration Results

RT: 14.75
Response: 759012
Amount: 10
Conc: 10



Manual Integration Results

RT: 14.75
Response: 647015
Amount: 10
Conc: 10



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:30
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04011.D
Lab Smp Id: ICIS-1531401
Inj Date : 04-APR-2013 15:19
Operator : SCC
Smp Info : ICIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 14:57 Cal File: 1DD04010.D
Als bottle: 9 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000
Inst ID: BSMSD.i
Compound Sublist: pah.sub

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.089	6.089	(1.000)	2475113	40.0000		
* 6 Acenaphthene-d10	164		7.769	7.769	(1.000)	1466924	40.0000		
* 9 Phenanthrene-d10	188		9.027	9.027	(1.000)	2428512	40.0000		
\$ 13 o-Terphenyl	230		9.332	9.332	(1.034)	754512	20.0000		21
* 17 Chrysene-d12	240		11.342	11.342	(1.000)	2464730	40.0000		
* 22 Perylene-d12	264		13.169	13.169	(1.000)	2515643	40.0000		
2 Naphthalene	128		6.113	6.113	(1.004)	1235557	20.0000		20
3 2-Methylnaphthalene	142		6.818	6.818	(1.120)	806286	20.0000		20
4 1-Methylnaphthalene	142		6.912	6.912	(1.135)	757317	20.0000		20
5 Acenaphthylene	152		7.640	7.640	(0.983)	1275622	20.0000		20
7 Acenaphthene	154		7.793	7.793	(1.003)	757590	20.0000		20
8 Fluorene	166		8.234	8.234	(1.060)	918747	20.0000		20
10 Phenanthrene	178		9.044	9.044	(1.002)	1331875	20.0000		20
11 Anthracene	178		9.086	9.086	(1.007)	1360668	20.0000		20
12 Carbazole	167		9.227	9.227	(1.022)	1202897	20.0000		20
14 Fluoranthene	202		10.026	10.026	(1.111)	1392506	20.0000		20
15 Pyrene	202		10.214	10.214	(0.901)	1496990	20.0000		20
16 Benzo(a)anthracene	228		11.324	11.324	(0.998)	1332372	20.0000		20
18 Chrysene	228		11.365	11.365	(1.002)	1305118	20.0000		20
19 Benzo(b)fluoranthene	252		12.623	12.623	(0.959)	1270704	20.0000		20
20 Benzo(k)fluoranthene	252		12.664	12.664	(0.962)	1319239	20.0000		20
21 Benzo(a)pyrene	252		13.075	13.075	(0.993)	1276688	20.0000		20
23 Indeno(1,2,3-cd)pyrene	276		14.761	14.761	(1.121)	1333044	20.0000		20(M)
24 Dibenzo(a,h)anthracene	278		14.785	14.785	(1.123)	1273836	20.0000		20
25 Benzo(g,h,i)perylene	276		15.202	15.202	(1.154)	1285637	20.0000		20

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD04011.D

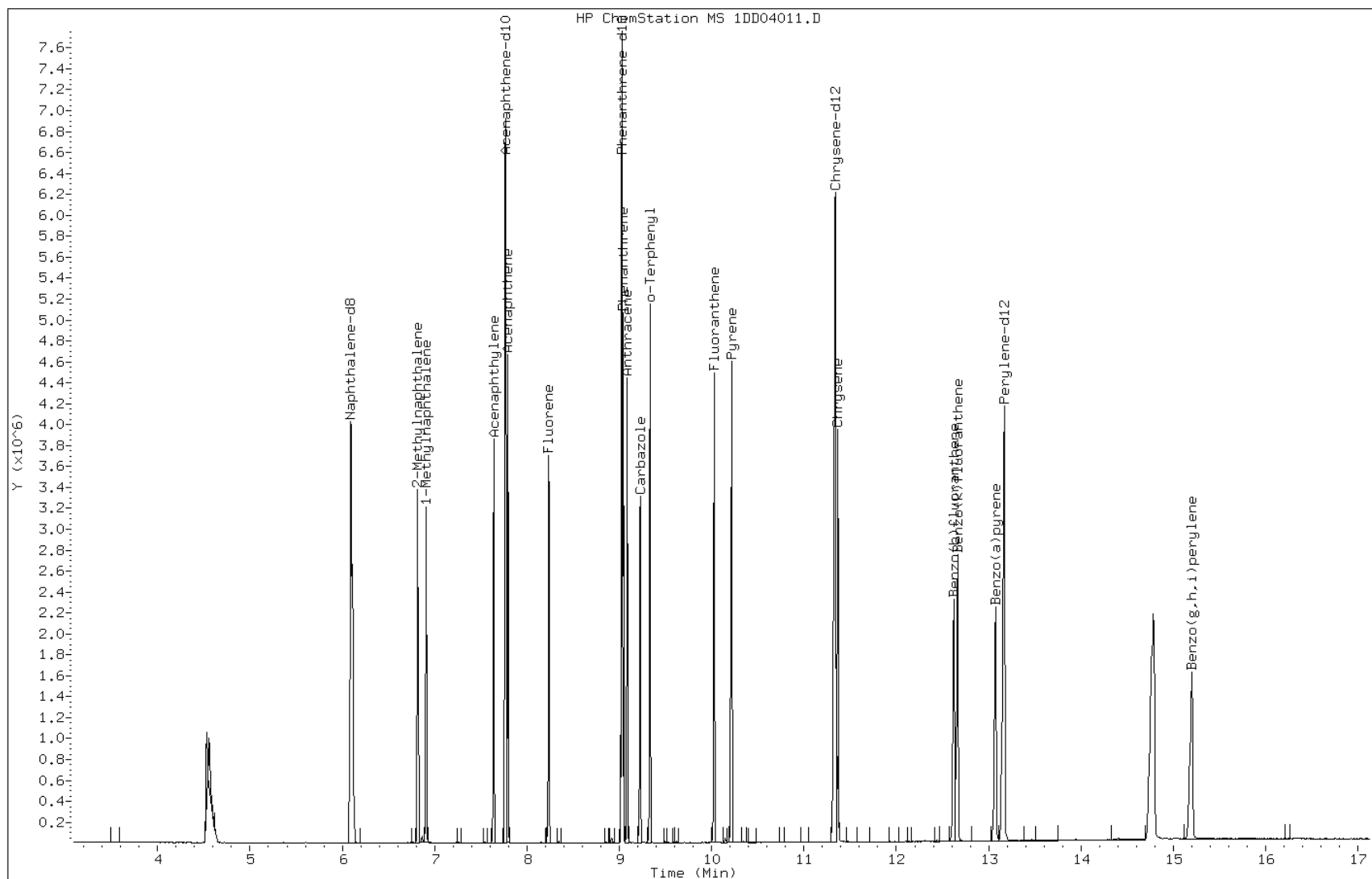
Date: 04-APR-2013 15:19

Client ID:

Instrument: BSMSD.i

Sample Info: ICIS-1531401

Operator: SCC

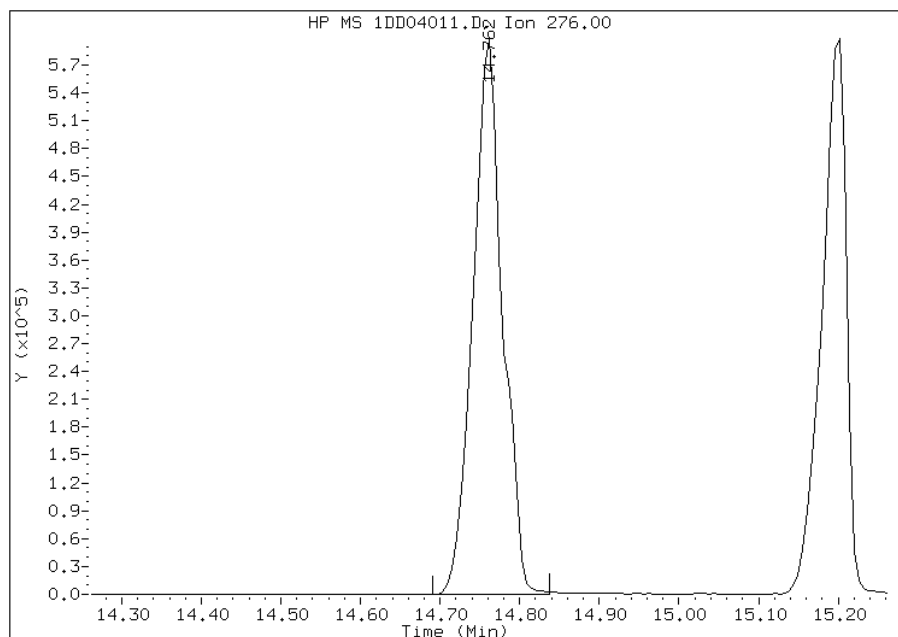


Manual Integration Report

Data File: 1DD04011.D
Inj. Date and Time: 04-APR-2013 15:19
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

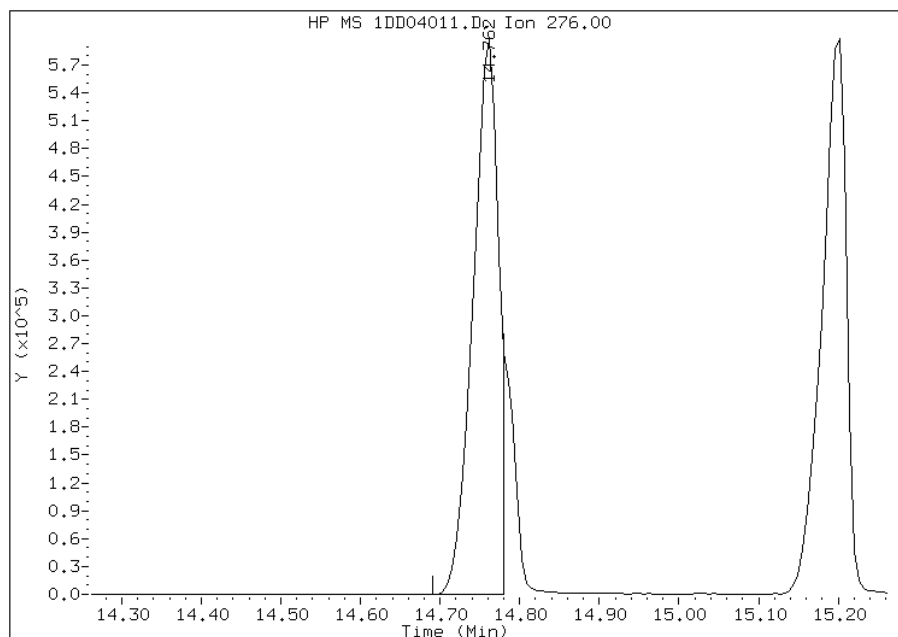
Processing Integration Results

RT: 14.76
Response: 1546230
Amount: 22
Conc: 22



Manual Integration Results

RT: 14.76
Response: 1333044
Amount: 20
Conc: 20



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:26
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04012.D
Lab Smp Id: IC-1531402
Inj Date : 04-APR-2013 15:42
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531402
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04012.D
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 15:19 Cal File: 1DD04011.D
Als bottle: 10 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/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.090	6.090	(1.000)	2316091	40.0000	
* 6 Acenaphthene-d10	164	7.765	7.765	(1.000)	1349878	40.0000	
* 9 Phenanthrene-d10	188	9.028	9.028	(1.000)	2295562	40.0000	
\$ 13 o-Terphenyl	230	9.334	9.334	(1.034)	1074388	30.0000	31
* 17 Chrysene-d12	240	11.343	11.343	(1.000)	2345845	40.0000	
* 22 Perylene-d12	264	13.170	13.170	(1.000)	2343379	40.0000	
2 Naphthalene	128	6.114	6.114	(1.004)	1777021	30.0000	31
3 2-Methylnaphthalene	142	6.819	6.819	(1.120)	1162560	30.0000	31
4 1-Methylnaphthalene	142	6.913	6.913	(1.135)	1096847	30.0000	31
5 Acenaphthylene	152	7.642	7.642	(0.984)	1852399	30.0000	32
7 Acenaphthene	154	7.794	7.794	(1.004)	1100779	30.0000	31
8 Fluorene	166	8.235	8.235	(1.061)	1323451	30.0000	32
10 Phenanthrene	178	9.046	9.046	(1.002)	1932978	30.0000	30
11 Anthracene	178	9.087	9.087	(1.007)	1981347	30.0000	32
12 Carbazole	167	9.228	9.228	(1.022)	1717245	30.0000	31
14 Fluoranthene	202	10.027	10.027	(1.111)	2025512	30.0000	31
15 Pyrene	202	10.215	10.215	(0.901)	2181708	30.0000	31
16 Benzo(a)anthracene	228	11.326	11.326	(0.998)	1914899	30.0000	30
18 Chrysene	228	11.367	11.367	(1.002)	1900592	30.0000	30
19 Benzo(b)fluoranthene	252	12.630	12.630	(0.959)	1811151	30.0000	31
20 Benzo(k)fluoranthene	252	12.671	12.671	(0.962)	1910468	30.0000	31
21 Benzo(a)pyrene	252	13.082	13.082	(0.993)	1854979	30.0000	32
23 Indeno(1,2,3-cd)pyrene	276	14.769	14.769	(1.121)	2011375	30.0000	32(M)
24 Dibenzo(a,h)anthracene	278	14.798	14.798	(1.124)	1840819	30.0000	31
25 Benzo(g,h,i)perylene	276	15.209	15.209	(1.155)	1860821	30.0000	31

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD04012.D

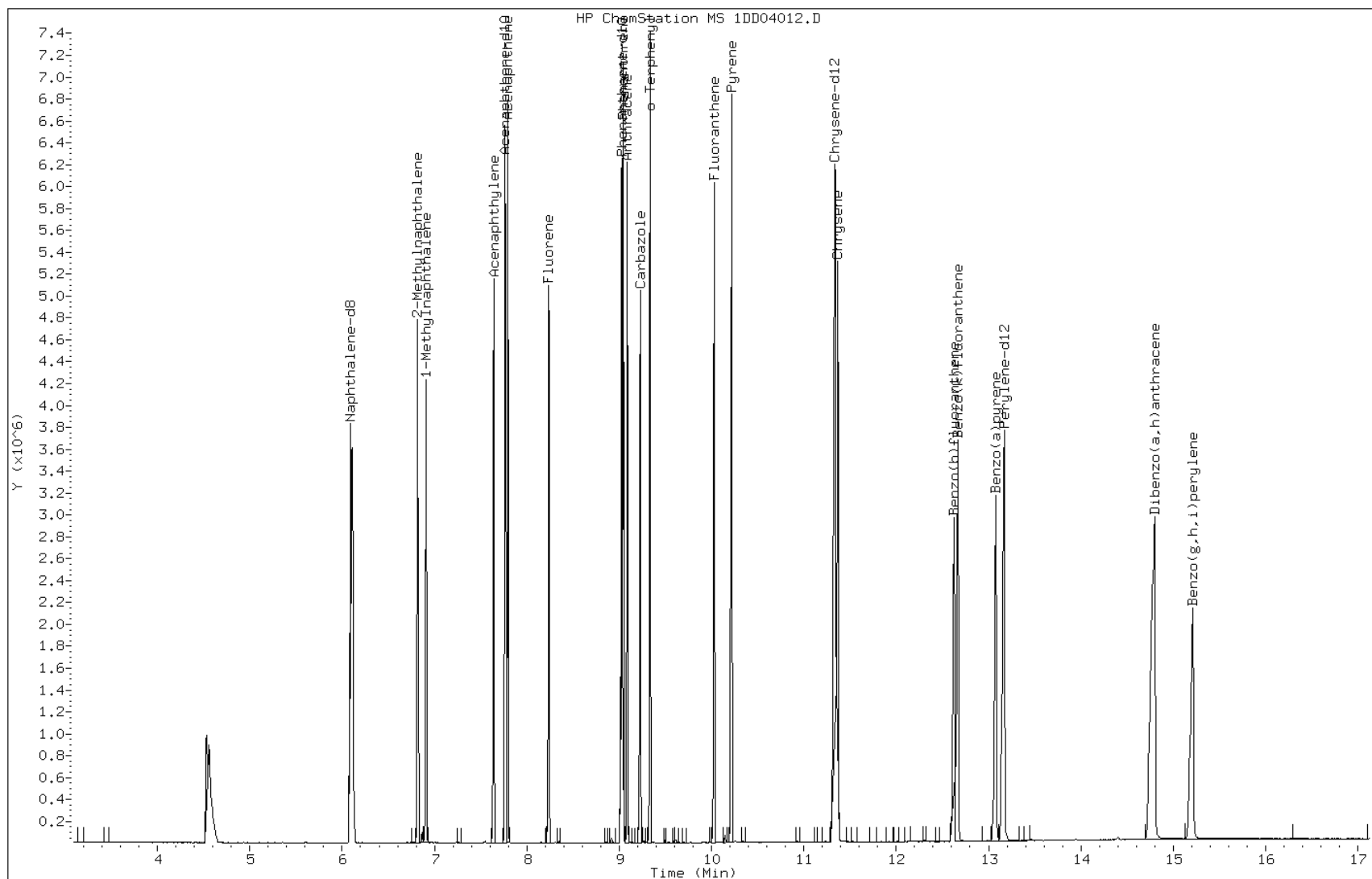
Date: 04-APR-2013 15:42

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531402

Operator: SCC

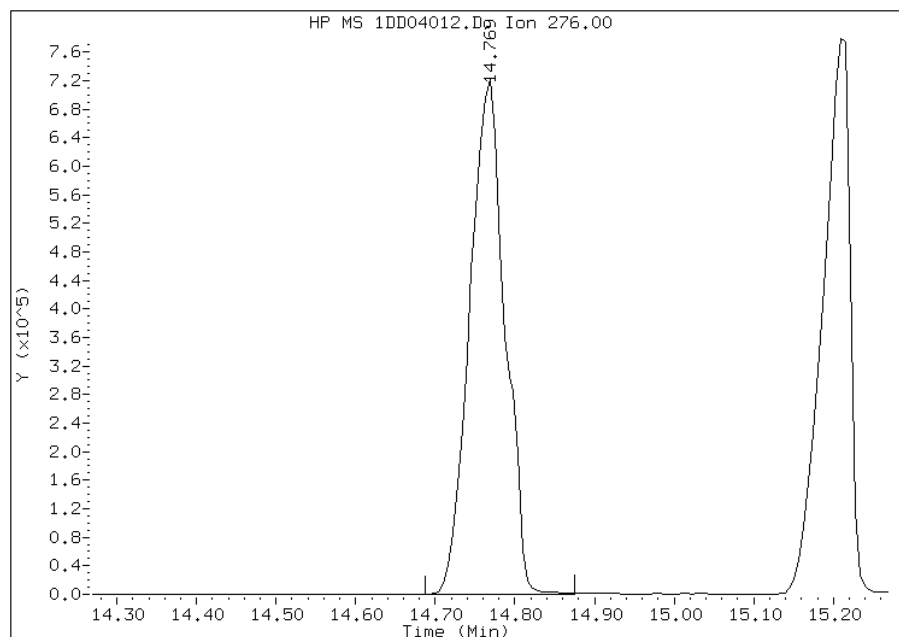


Manual Integration Report

Data File: 1DD04012.D
Inj. Date and Time: 04-APR-2013 15:42
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

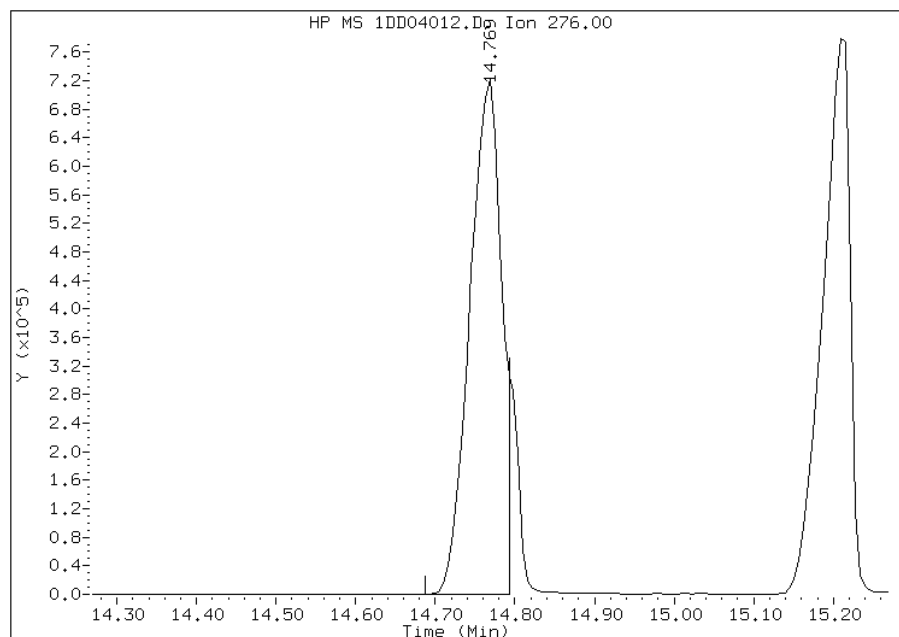
Processing Integration Results

RT: 14.77
Response: 2221522
Amount: 32
Conc: 32



Manual Integration Results

RT: 14.77
Response: 2011375
Amount: 32
Conc: 32



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:30
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04013.D
 Lab Smp Id: IC-1531403
 Inj Date : 04-APR-2013 16:04
 Operator : SCC
 Smp Info : IC-1531403
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04013.D
 Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
 Cal Date : 04-APR-2013 15:42 Cal File: 1DD04012.D
 Als bottle: 11 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: TAM1000
 Compound Sublist: pah.sub

Compounds	QUANT SIG						AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.090	6.090	(1.000)	2444753	40.0000		
* 6 Acenaphthene-d10	164	7.770	7.770	(1.000)	1439391	40.0000		
* 9 Phenanthrene-d10	188	9.027	9.027	(1.000)	2373597	40.0000		
\$ 13 o-Terphenyl	230	9.339	9.339	(1.034)	2031596	50.0000		57(A)
* 17 Chrysene-d12	240	11.348	11.348	(1.000)	2479223	40.0000		
* 22 Perylene-d12	264	13.175	13.175	(1.000)	2461140	40.0000		
2 Naphthalene	128	6.113	6.113	(1.004)	3211548	50.0000		53(A)
3 2-Methylnaphthalene	142	6.818	6.818	(1.120)	2134320	50.0000		54(A)
4 1-Methylnaphthalene	142	6.912	6.912	(1.135)	1999874	50.0000		54(A)
5 Acenaphthylene	152	7.641	7.641	(0.983)	3396591	50.0000		56(A)
7 Acenaphthene	154	7.799	7.799	(1.004)	2018481	50.0000		54(A)
8 Fluorene	166	8.240	8.240	(1.060)	2393163	50.0000		54(A)
10 Phenanthrene	178	9.051	9.051	(1.003)	3534794	50.0000		54(A)
11 Anthracene	178	9.092	9.092	(1.007)	3590722	50.0000		55(A)
12 Carbazole	167	9.233	9.233	(1.023)	3137679	50.0000		55(A)
14 Fluoranthene	202	10.032	10.032	(1.111)	3681257	50.0000		55(A)
15 Pyrene	202	10.220	10.220	(0.901)	3965627	50.0000		53(A)
16 Benzo(a)anthracene	228	11.325	11.325	(0.998)	3388838	50.0000		50(A)
18 Chrysene	228	11.377	11.377	(1.003)	3512644	50.0000		52(A)
19 Benzo(b)fluoranthene	252	12.635	12.635	(0.959)	3290902	50.0000		54(A)
20 Benzo(k)fluoranthene	252	12.682	12.682	(0.963)	3421834	50.0000		53(A)
21 Benzo(a)pyrene	252	13.093	13.093	(0.994)	3327888	50.0000		54(A)
23 Indeno(1,2,3-cd)pyrene	276	14.785	14.785	(1.122)	3754268	50.0000		57(AM)
24 Dibenzo(a,h)anthracene	278	14.826	14.826	(1.125)	3350541	50.0000		54(A)
25 Benzo(g,h,i)perylene	276	15.238	15.238	(1.157)	3284166	50.0000		52(A)

QC Flag Legend

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

Data File: 1DD04013.D

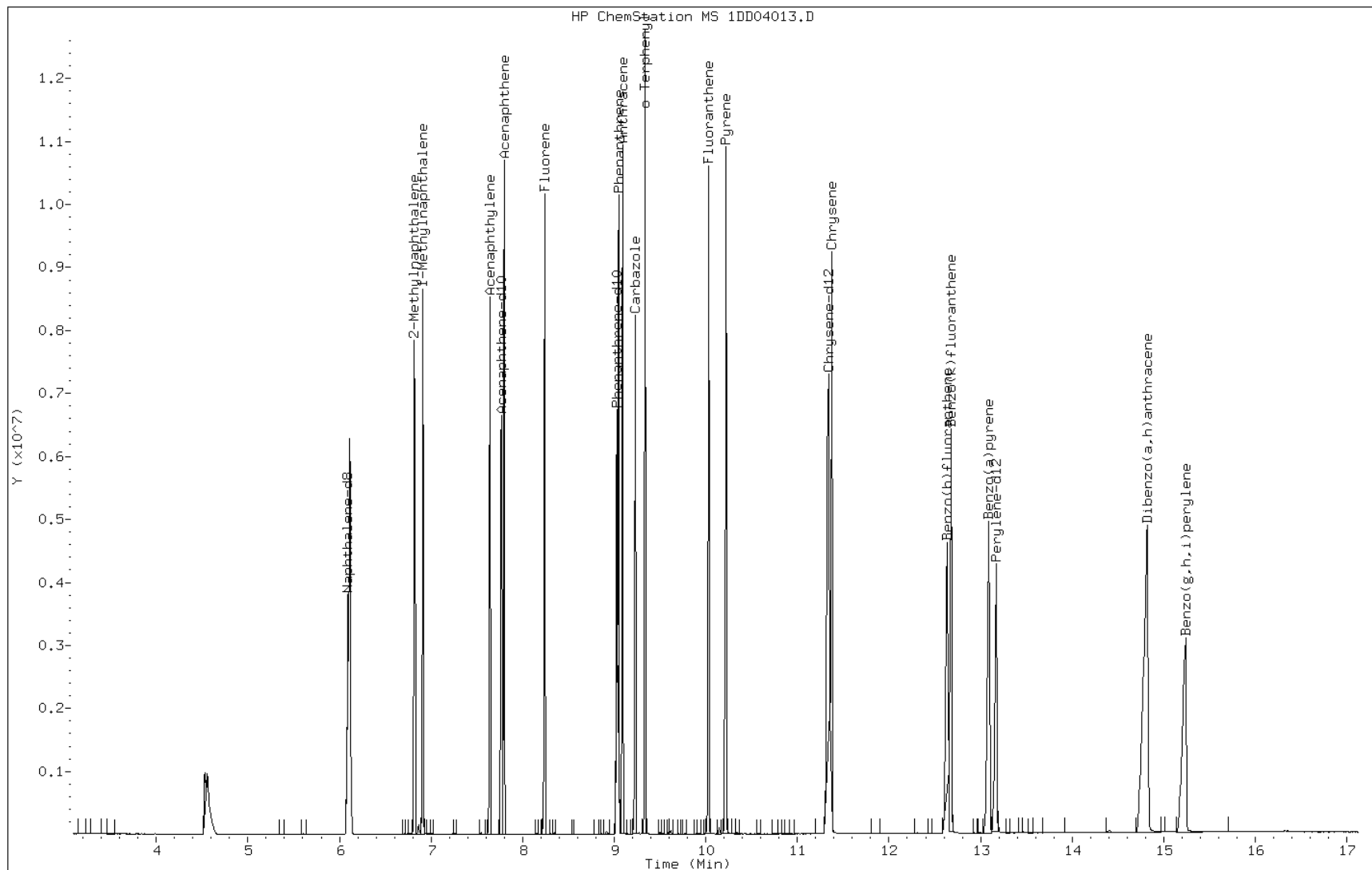
Date: 04-APR-2013 16:04

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531403

Operator: SCC

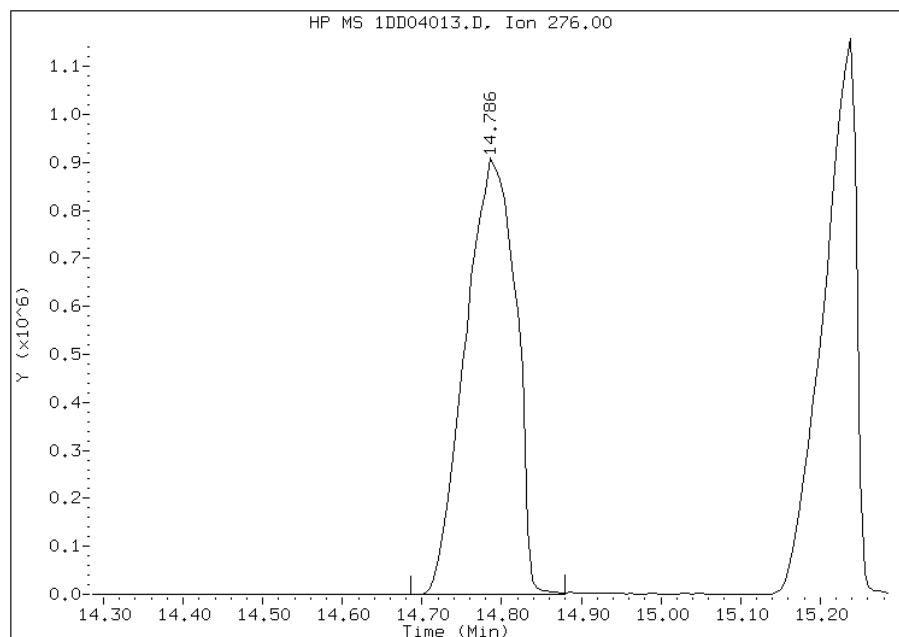


Manual Integration Report

Data File: 1DD04013.D
Inj. Date and Time: 04-APR-2013 16:04
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

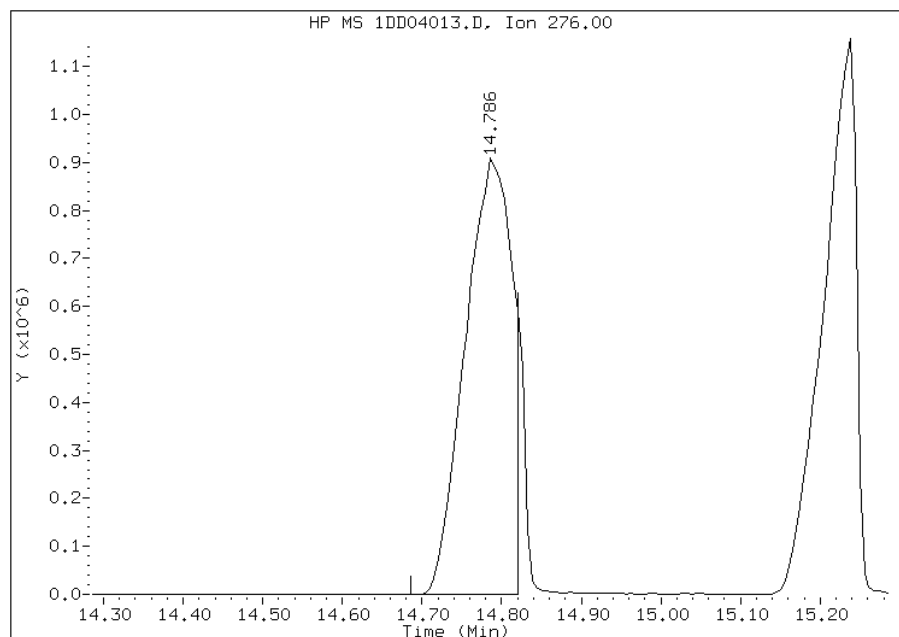
Processing Integration Results

RT: 14.79
Response: 3993028
Amount: 54
Conc: 54



Manual Integration Results

RT: 14.79
Response: 3754268
Amount: 57
Conc: 57



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:30
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89459-2
 SDG No.: 68089459-2
 Lab Sample ID: ICV 660-136792/15 Calibration Date: 04/24/2013 16:06
 Instrument ID: BSMC5973 Calib Start Date: 04/24/2013 13:57
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/24/2013 15:47
 Lab File ID: 1CD24014.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Qua	1.098	0.9939	0.0000	18500	20000	-7.6	35.0
2-Methylnaphthalene	Qua	0.6360	0.6687	0.0000	19000	20000	-4.8	35.0
1-Methylnaphthalene	Qua	0.7017	0.6644	0.0000	20100	20000	0.6	35.0
Acenaphthylene	Qua	2.140	1.745	0.0000	17300	20000	-13.5	35.0
Acenaphthene	Lin	1.041	1.047	0.0000	18100	20000	-9.5	35.0
Fluorene	Lin	1.213	1.264	0.0000	18400	20000	-8.0	35.0
Phenanthrene	Ave	1.095	1.088	0.0000	19900	20000	-0.7	35.0
Anthracene	Lin	1.235	1.214	0.0000	20400	20000	1.9	35.0
Carbazole	Ave	1.101	1.068	0.0000	19400	20000	-3.0	35.0
Fluoranthene	Lin	1.232	1.320	0.0000	19900	20000	-0.3	35.0
Pyrene	Ave	1.181	1.084	0.0000	18400	20000	-8.2	35.0
Benzo[a]anthracene	Qua	1.351	1.168	0.0000	21500	20000	7.5	35.0
Chrysene	Ave	1.142	1.018	0.0000	17800	20000	-10.9	35.0
Benzo[b]fluoranthene	Ave	1.106	1.167	0.0000	21100	20000	5.5	35.0
Benzo[k]fluoranthene	Ave	1.076	1.015	0.0000	18900	20000	-5.7	35.0
Benzo[a]pyrene	Lin	0.9394	0.9293	0.0000	17200	20000	-14.2	35.0
Indeno[1,2,3-cd]pyrene	Lin	0.9578	0.9419	0.0000	17600	20000	-12.2	35.0
Dibenz(a,h)anthracene	Ave	0.9699	1.013	0.0000	20900	20000	4.4	35.0
Benzo[g,h,i]perylene	Ave	1.010	0.9900	0.0000	19600	20000	-2.0	35.0
o-Terphenyl	Ave	0.5808	0.5769	0.0000	19900	20000	-0.7	35.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24014.D
Lab Smp Id: ICV-1448440
Inj Date : 24-APR-2013 16:06
Operator : SCC
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24014.D
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/mL)	(ug/L)
=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8		136	3.633	3.634	(1.000)	178260	40.0000	
* 6 Acenaphthene-d10		164	4.721	4.722	(1.000)	107629	40.0000	
* 10 Phenanthrene-d10		188	5.662	5.663	(1.000)	194163	40.0000	
\$ 14 o-Terphenyl		230	5.909	5.910	(1.044)	56007	19.8674	19.8674
* 18 Chrysene-d12		240	7.586	7.592	(1.000)	234167	40.0000	
* 23 Perylene-d12		264	8.733	8.733	(1.000)	247483	40.0000	
2 Naphthalene		128	3.645	3.646	(1.003)	88589	18.4847	18.4846
3 2-Methylnaphthalene		142	4.074	4.075	(1.121)	59598	19.0345	19.0344
4 1-Methylnaphthalene		142	4.133	4.134	(1.138)	59219	20.1145	20.1145
5 Acenaphthylene		152	4.633	4.634	(0.981)	93910	17.3093	17.3093
7 Acenaphthene		154	4.739	4.740	(1.004)	56326	18.0986	18.0986
9 Fluorene		166	5.057	5.057	(1.071)	68048	18.4020	18.4019
11 Phenanthrene		178	5.674	5.675	(1.002)	105627	19.8687	19.8687
12 Anthracene		178	5.709	5.710	(1.008)	117820	20.3857	20.3856
13 Carbazole		167	5.821	5.822	(1.028)	103644	19.3960	19.3960
15 Fluoranthene		202	6.504	6.504	(1.149)	128171	19.9448	19.9447
16 Pyrene		202	6.668	6.675	(0.879)	126931	18.3539	18.3538

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
17 Benzo(a)anthracene	228	7.580	7.581	(0.999)	136717	21.4934	21.4933
19 Chrysene	228	7.609	7.610	(1.003)	119178	17.8230	17.8229
20 Benzo(b)fluoranthene	252	8.403	8.410	(0.962)	144465	21.1064	21.1063
21 Benzo(k)fluoranthene	252	8.421	8.428	(0.964)	125583	18.8568	18.8568
22 Benzo(a)pyrene	252	8.680	8.686	(0.994)	114991	17.1505	17.1504
24 Indeno(1,2,3-cd)pyrene	276	9.821	9.833	(1.125)	116552	17.5572	17.5571(M)
25 Dibenzo(a,h)anthracene	278	9.839	9.851	(1.127)	125342	20.8864	20.8864
26 Benzo(g,h,i)perylene	276	10.150	10.163	(1.162)	122506	19.6045	19.6045

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD24014.D

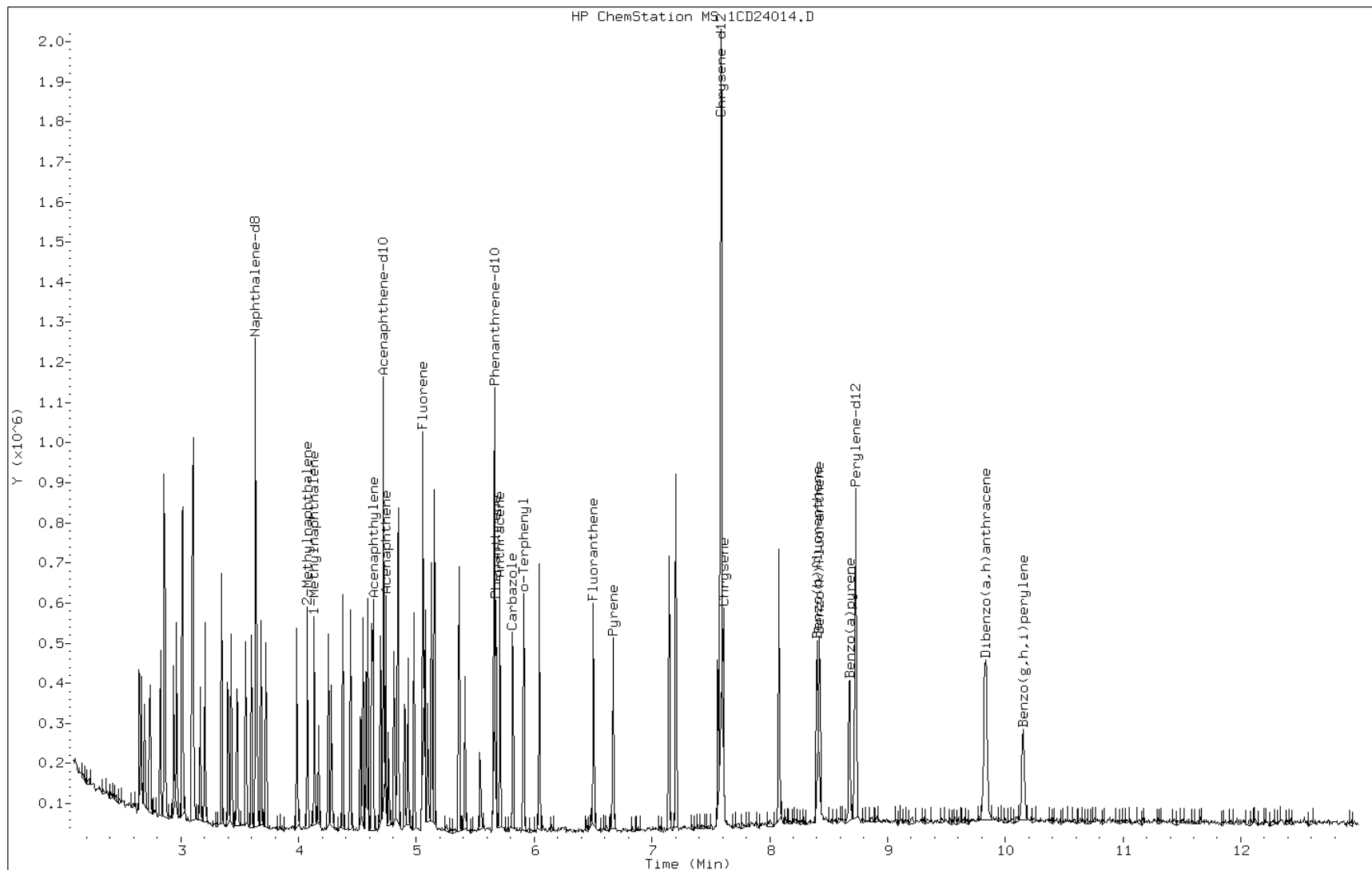
Date: 24-APR-2013 16:06

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC

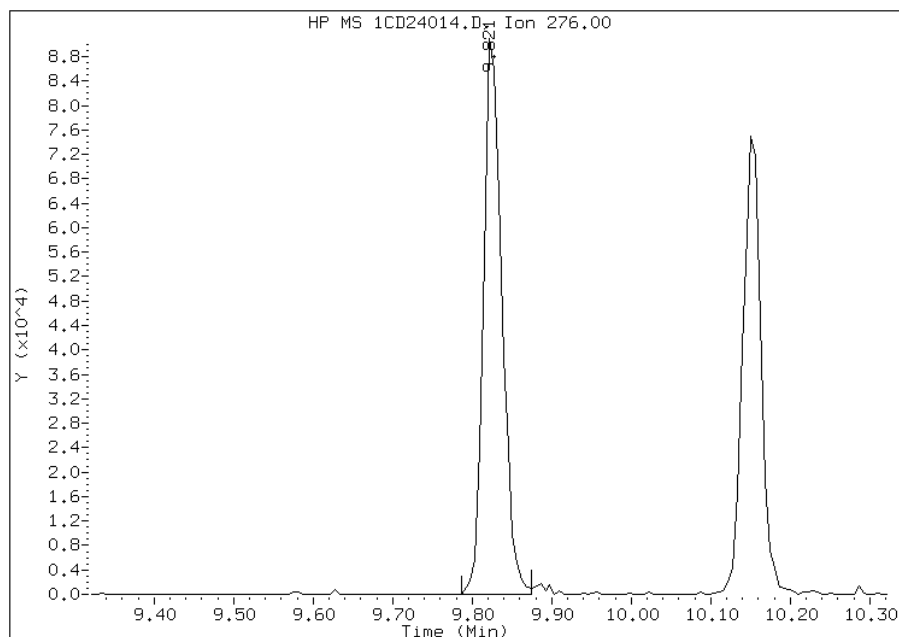


Manual Integration Report

Data File: 1CD24014.D
Inj. Date and Time: 24-APR-2013 16:06
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

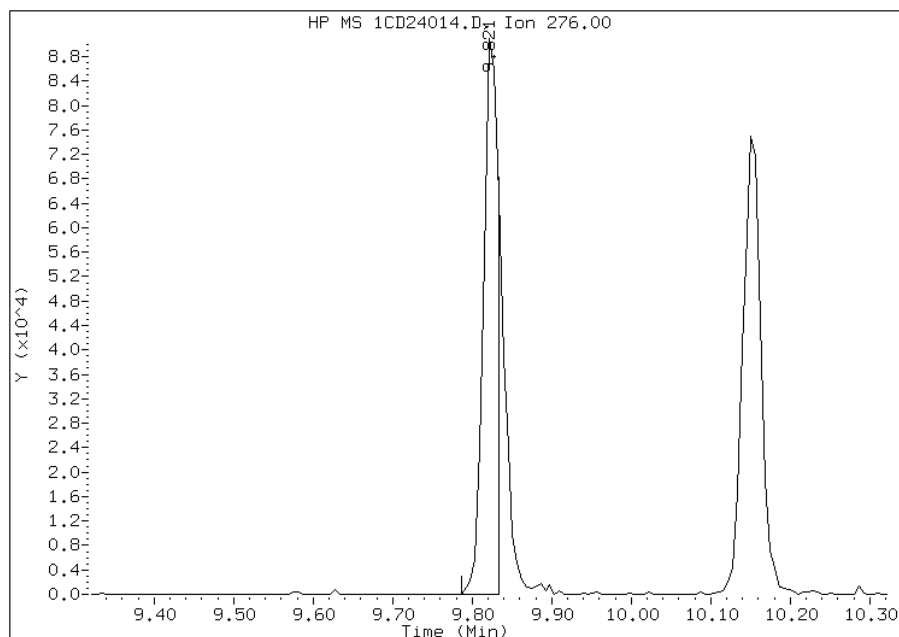
Processing Integration Results

RT: 9.82
Response: 145625
Amount: 22
Conc: 22



Manual Integration Results

RT: 9.82
Response: 116552
Amount: 18
Conc: 18



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:35
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89459-2
 SDG No.: 68089459-2
 Lab Sample ID: ICV 660-136164/22 Calibration Date: 04/04/2013 16:27
 Instrument ID: BSMD5973 Calib Start Date: 04/04/2013 13:49
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/04/2013 16:04
 Lab File ID: 1DD04014.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9942	0.9009	0.0000	18100	20000	-9.4	35.0
2-Methylnaphthalene	Ave	0.6418	0.5957	0.0000	18600	20000	-7.2	35.0
1-Methylnaphthalene	Ave	0.6061	0.5697	0.0000	18800	20000	-6.0	35.0
Acenaphthylene	Ave	1.693	1.431	0.0000	16900	20000	-15.5	35.0
Acenaphthene	Ave	1.045	0.8522	0.0000	16300	20000	-18.5	35.0
Fluorene	Ave	1.238	1.099	0.0000	17800	20000	-11.2	35.0
Phenanthrene	Ave	1.102	0.8997	0.0000	16300	20000	-18.3	35.0
Anthracene	Ave	1.094	0.9197	0.0000	16800	20000	-15.9	35.0
Carbazole	Ave	0.9646	0.6860	0.0000	14200	20000	-28.9	35.0
Fluoranthene	Ave	1.134	0.9937	0.0000	17500	20000	-12.4	35.0
Pyrene	Ave	1.201	0.9577	0.0000	15900	20000	-20.3	35.0
Benzo[a]anthracene	Ave	1.156	0.9847	0.0000	17000	20000	-14.9	35.0
Chrysene	Ave	1.084	0.8727	0.0000	16100	20000	-19.5	35.0
Benzo[b]fluoranthene	Ave	0.999	0.8893	0.0000	17800	20000	-11.0	35.0
Benzo[k]fluoranthene	Ave	1.053	0.8752	0.0000	16600	20000	-16.9	35.0
Benzo[a]pyrene	Ave	1.004	0.7657	0.0000	15300	20000	-23.7	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.071	0.8560	0.0000	16000	20000	-20.0	35.0
Dibenz(a,h)anthracene	Ave	1.008	0.9464	0.0000	18800	20000	-6.1	35.0
Benzo[g,h,i]perylene	Ave	1.031	0.8761	0.0000	17000	20000	-15.0	35.0
o-Terphenyl	Ave	0.6027	0.4989	0.0000	16600	20000	-17.2	35.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04014.D
Lab Smp Id: ICV-1448440
Inj Date : 04-APR-2013 16:27
Operator : SCC
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 13:07 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000
Inst ID: BSMSD.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

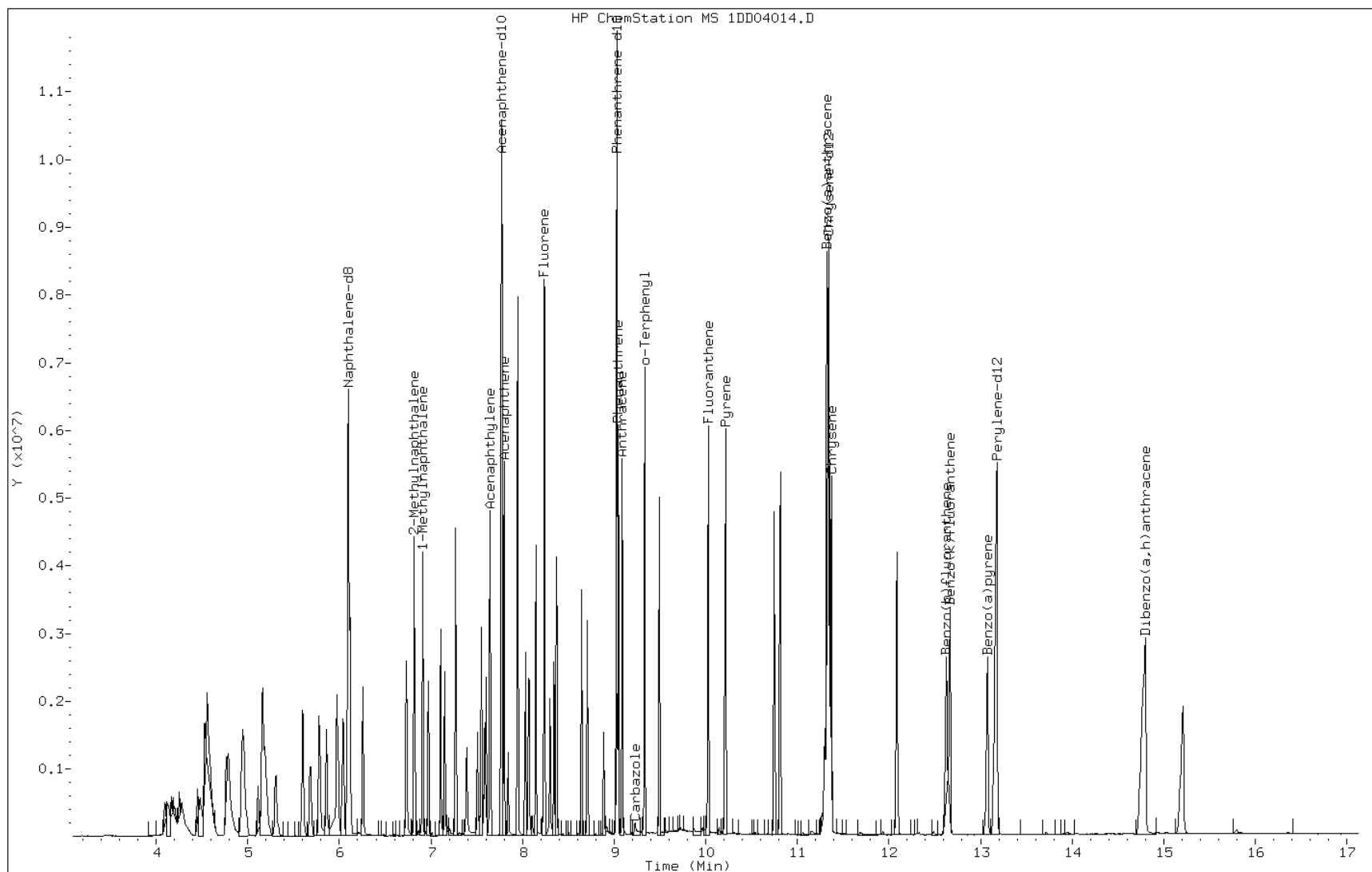
Compounds	QUANT SIG							CONCENTRATIONS	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
							(ug/l)	(ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
* 1 Naphthalene-d8	136	6.096	6.090	(1.000)	3619899	40.0000			
* 6 Acenaphthene-d10	164	7.771	7.770	(1.000)	2333423	40.0000			
* 9 Phenanthrene-d10	188	9.028	9.028	(1.000)	3845474	40.0000			
\$ 13 o-Terphenyl	230	9.334	9.339	(1.034)	959307	16.5566		16	
* 17 Chrysene-d12	240	11.349	11.349	(1.000)	3963674	40.0000			
* 22 Perylene-d12	264	13.182	13.176	(1.000)	3958481	40.0000			
2 Naphthalene	128	6.114	6.114	(1.003)	1630598	18.1229		18	
3 2-Methylnaphthalene	142	6.819	6.819	(1.119)	1078163	18.5630		18	
4 1-Methylnaphthalene	142	6.913	6.913	(1.134)	1031118	18.7992		19	
5 Acenaphthylene	152	7.642	7.641	(0.983)	1669244	16.9019		17	
7 Acenaphthene	154	7.800	7.800	(1.004)	994282	16.3100		16	
8 Fluorene	166	8.241	8.240	(1.060)	1281905	17.7572		18	
10 Phenanthrene	178	9.046	9.051	(1.002)	1729949	16.3322		16	
11 Anthracene	178	9.087	9.092	(1.007)	1768381	16.8207		17	
12 Carbazole	167	9.228	9.233	(1.022)	1319041	14.2242		14(M)	
14 Fluoranthene	202	10.027	10.032	(1.111)	1910613	17.5287		18	
15 Pyrene	202	10.215	10.220	(0.900)	1898084	15.9464		16	

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
16 Benzo(a)anthracene	228	11.325	11.325	(0.998)	1951469	17.0289	17
18 Chrysene	228	11.372	11.378	(1.002)	1729613	16.0966	16
19 Benzo(b)fluoranthene	252	12.630	12.635	(0.958)	1760131	17.8000	18
20 Benzo(k)fluoranthene	252	12.671	12.682	(0.961)	1732123	16.6271	17
21 Benzo(a)pyrene	252	13.076	13.094	(0.992)	1515587	15.2542	15
23 Indeno(1,2,3-cd)pyrene	276	14.763	14.786	(1.120)	1694283	15.9925	16(M)
24 Dibenzo(a,h)anthracene	278	14.798	14.827	(1.123)	1873209	18.7764	19
25 Benzo(g,h,i)perylene	276	15.215	15.238	(1.154)	1734029	16.9990	17(H)

QC Flag Legend

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

Operator: SCC

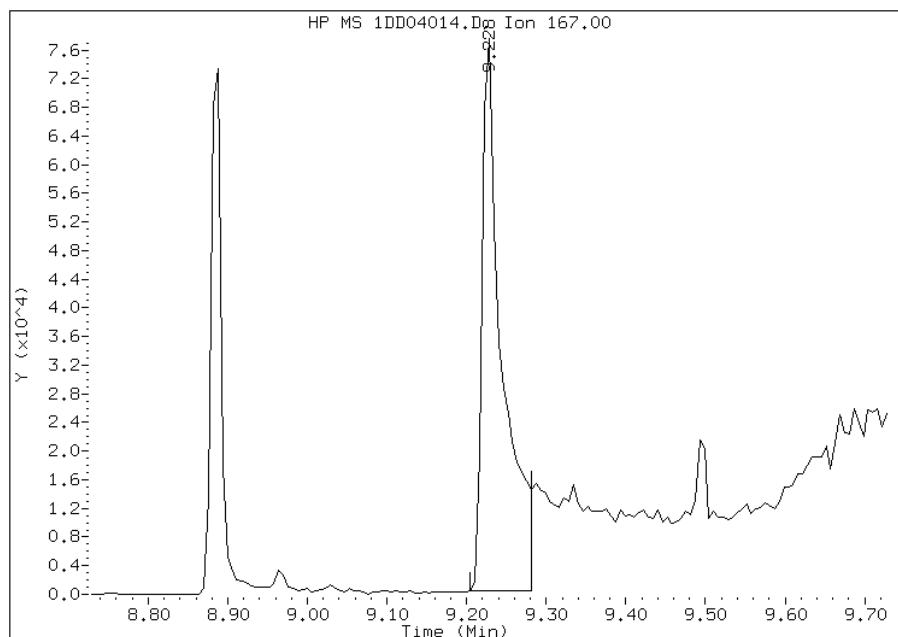


Manual Integration Report

Data File: 1DD04014.D
Inj. Date and Time: 04-APR-2013 16:27
Instrument ID: BSMSD.i
Client ID:
Compound: 12 Carbazole
CAS #: 86-74-8
Report Date: 04/05/2013

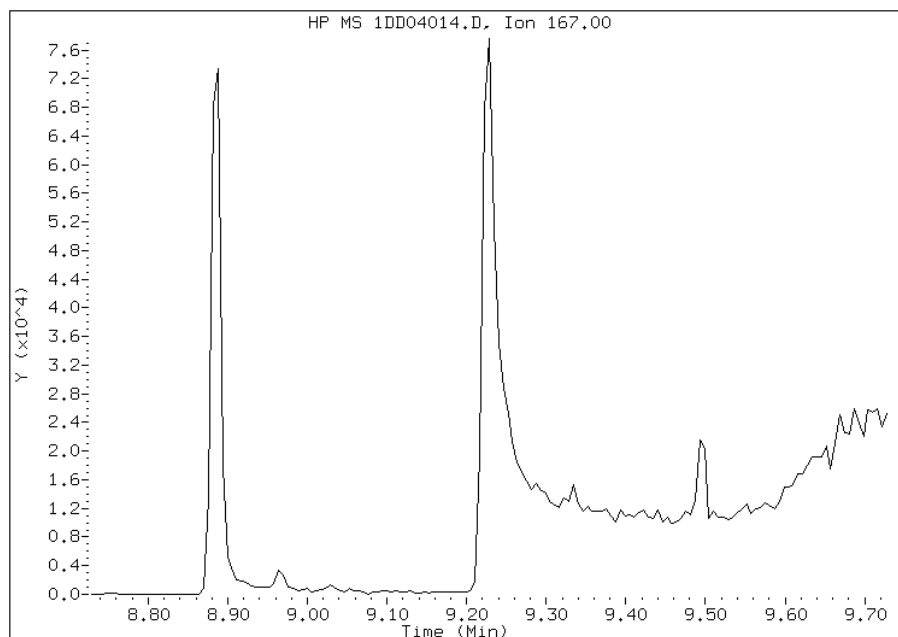
Processing Integration Results

RT: 9.23
Response: 136620
Amount: 1
Conc: 1



Manual Integration Results

RT: 9.23
Response: 1319041
Amount: 14
Conc: 14



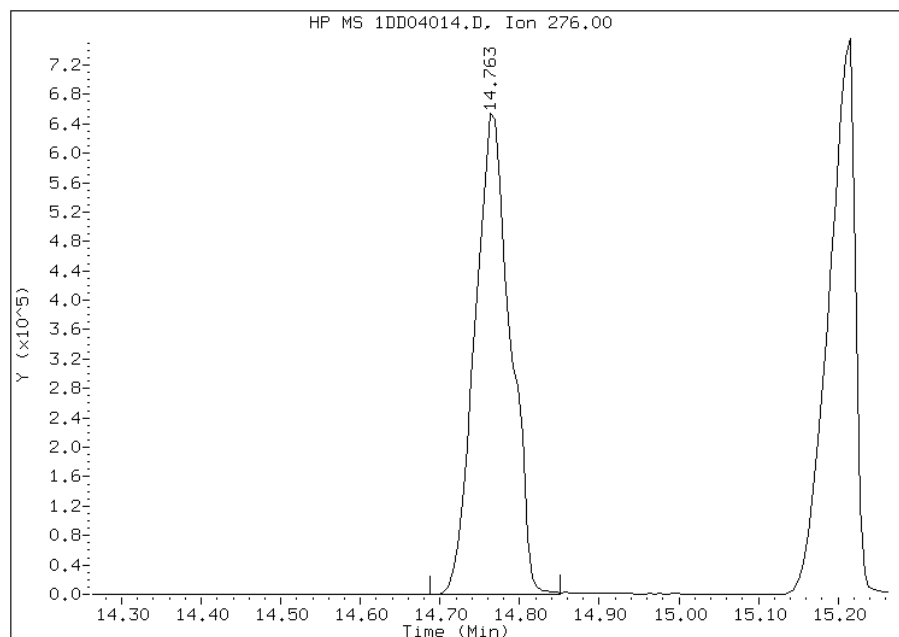
Manually Integrated By: cantins
Modification Date: 05-Apr-2013 13:08
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DD04014.D
Inj. Date and Time: 04-APR-2013 16:27
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

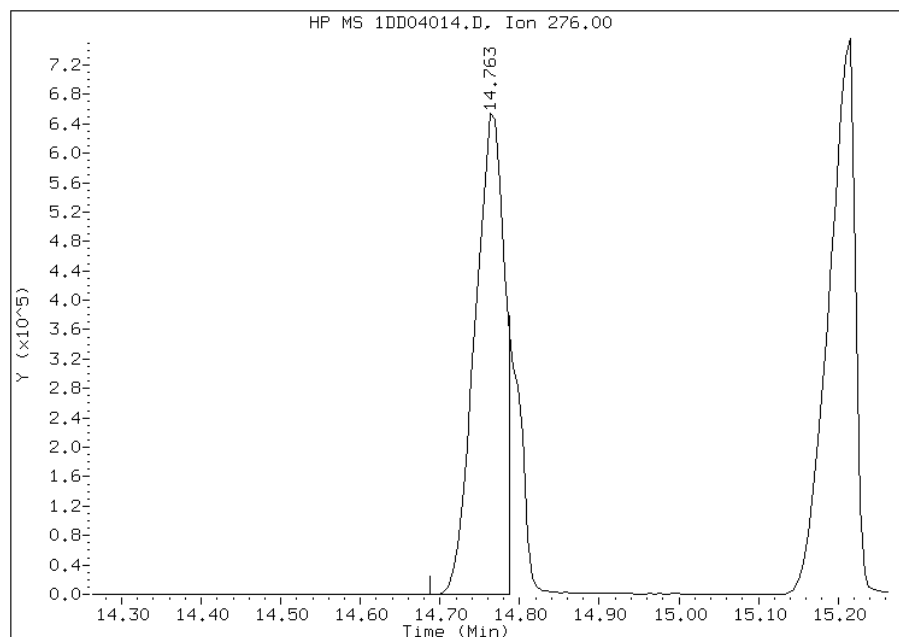
Processing Integration Results

RT: 14.76
Response: 2024721
Amount: 19
Conc: 19



Manual Integration Results

RT: 14.76
Response: 1694283
Amount: 16
Conc: 16



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 13:09
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89459-2
 SDG No.: 68089459-2
 Lab Sample ID: CCVIS 660-136756/4 Calibration Date: 04/23/2013 13:06
 Instrument ID: BSMD5973 Calib Start Date: 04/04/2013 13:49
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/04/2013 16:04
 Lab File ID: 1DD23004.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9942	0.9852	0.0000	19800	20000	-0.9	20.0
2-Methylnaphthalene	Ave	0.6418	0.6398	0.0000	19900	20000	-0.3	20.0
1-Methylnaphthalene	Ave	0.6061	0.5888	0.0000	19400	20000	-2.9	20.0
Acenaphthylene	Ave	1.693	1.721	0.0000	20300	20000	1.6	20.0
Acenaphthene	Ave	1.045	1.023	0.0000	19600	20000	-2.1	20.0
Fluorene	Ave	1.238	1.213	0.0000	19600	20000	-2.0	20.0
Phenanthrene	Ave	1.102	1.077	0.0000	19600	20000	-2.2	20.0
Anthracene	Ave	1.094	1.096	0.0000	20000	20000	0.2	20.0
Carbazole	Ave	0.9646	0.9490	0.0000	19700	20000	-1.6	20.0
Fluoranthene	Ave	1.134	1.100	0.0000	19400	20000	-3.0	20.0
Pyrene	Ave	1.201	1.259	0.0000	21000	20000	4.8	20.0
Benzo[a]anthracene	Ave	1.156	1.064	0.0000	18400	20000	-8.0	20.0
Chrysene	Ave	1.084	1.075	0.0000	19800	20000	-0.8	20.0
Benzo[b]fluoranthene	Ave	0.999	1.045	0.0000	20900	20000	4.6	20.0
Benzo[k]fluoranthene	Ave	1.053	1.028	0.0000	19500	20000	-2.4	20.0
Benzo[a]pyrene	Ave	1.004	1.021	0.0000	20300	20000	1.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.071	1.125	0.0000	21000	20000	5.1	20.0
Dibenz(a,h)anthracene	Ave	1.008	1.019	0.0000	20200	20000	1.1	20.0
Benzo[g,h,i]perylene	Ave	1.031	1.053	0.0000	20400	20000	2.2	20.0
o-Terphenyl	Ave	0.6027	0.5900	0.0000	19600	20000	-2.1	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23004.D
Lab Smp Id: CCV-1531401
Inj Date : 23-APR-2013 13:06
Operator : SCC
Smp Info : CCV-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG	AMOUNTS					
		CAL-AMT	ON-COL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.051	6.051	(1.000)	1580617	40.0000	(H)
* 6 Acenaphthene-d10	164	7.732	7.732	(1.000)	898769	40.0000	
* 9 Phenanthrene-d10	188	8.995	8.995	(1.000)	1440899	40.0000	(H)
\$ 13 o-Terphenyl	230	9.306	9.306	(1.035)	425079	20.0000	20
* 17 Chrysene-d12	240	11.304	11.304	(1.000)	1347354	40.0000	(H)
* 22 Perylene-d12	264	13.120	13.120	(1.000)	1365132	40.0000	(H)
2 Naphthalene	128	6.075	6.075	(1.004)	778635	20.0000	20(H)
3 2-Methylnaphthalene	142	6.780	6.780	(1.120)	505626	20.0000	20(H)
4 1-Methylnaphthalene	142	6.874	6.874	(1.136)	465341	20.0000	19(H)
5 Acenaphthylene	152	7.608	7.608	(0.984)	773280	20.0000	20
7 Acenaphthene	154	7.761	7.761	(1.004)	459843	20.0000	20
8 Fluorene	166	8.208	8.208	(1.062)	545091	20.0000	20
10 Phenanthrene	178	9.013	9.013	(1.002)	776039	20.0000	20(H)
11 Anthracene	178	9.054	9.054	(1.007)	789282	20.0000	20(H)
12 Carbazole	167	9.195	9.195	(1.022)	683717	20.0000	20(H)
14 Fluoranthene	202	10.000	10.000	(1.112)	792537	20.0000	19(H)
15 Pyrene	202	10.188	10.188	(0.901)	848028	20.0000	21(H)
16 Benzo(a)anthracene	228	11.287	11.287	(0.998)	716524	20.0000	18(H)
18 Chrysene	228	11.328	11.328	(1.002)	724359	20.0000	20(H)
19 Benzo(b)fluoranthene	252	12.585	12.585	(0.959)	713274	20.0000	21(H)
20 Benzo(k)fluoranthene	252	12.620	12.620	(0.962)	701401	20.0000	20(H)
21 Benzo(a)pyrene	252	13.032	13.032	(0.993)	696714	20.0000	20(H)
23 Indeno(1,2,3-cd)pyrene	276	14.706	14.706	(1.121)	768192	20.0000	21(MH)
24 Dibenzo(a,h)anthracene	278	14.735	14.735	(1.123)	695736	20.0000	20(H)
25 Benzo(g,h,i)perylene	276	15.141	15.141	(1.154)	718929	20.0000	20(H)

QC Flag Legend

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

Data File: 1DD23004.D

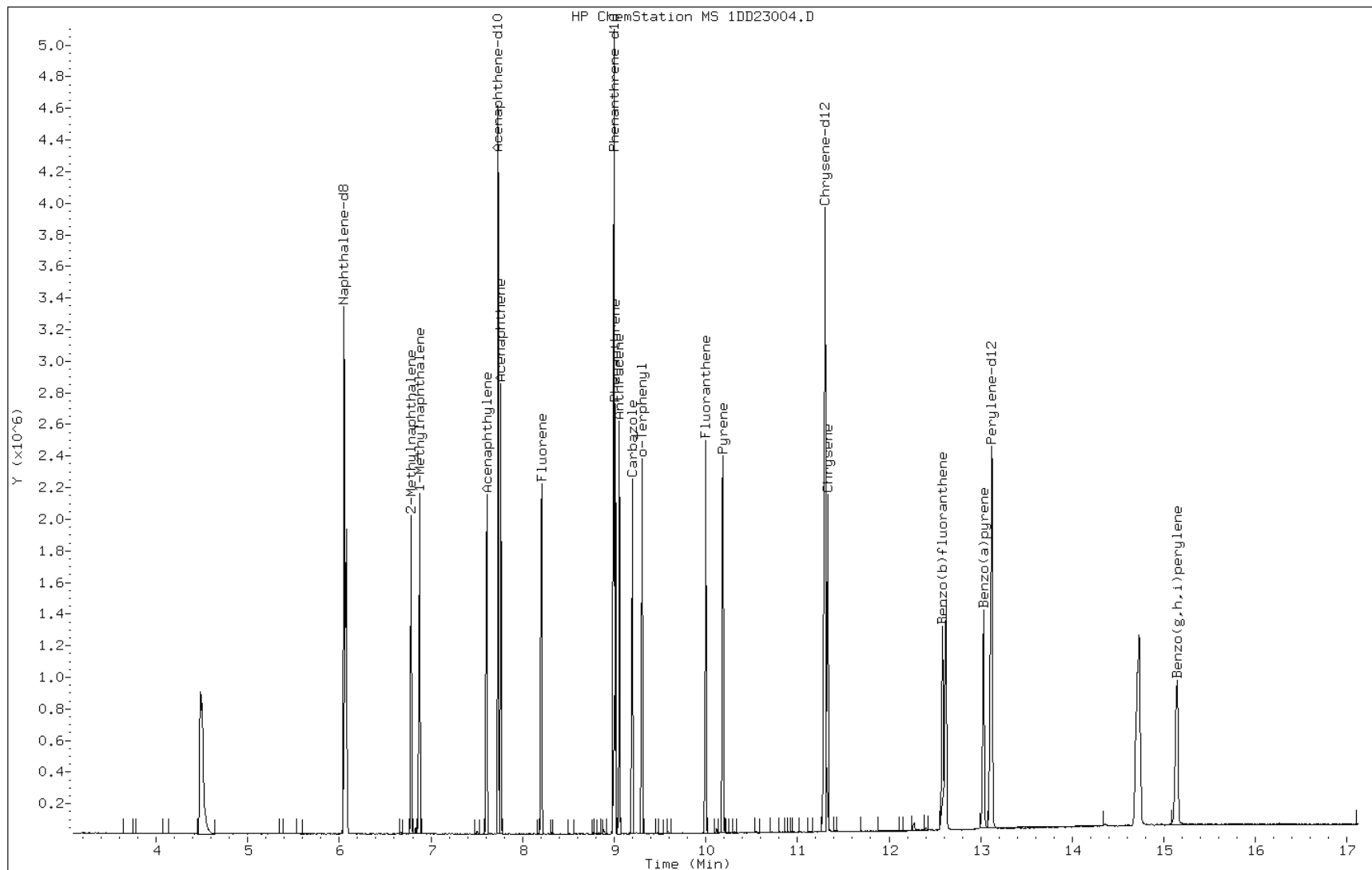
Date: 23-APR-2013 13:06

Client ID:

Instrument: BSMSD.i

Sample Info: CCV-1531401

Operator: SCC

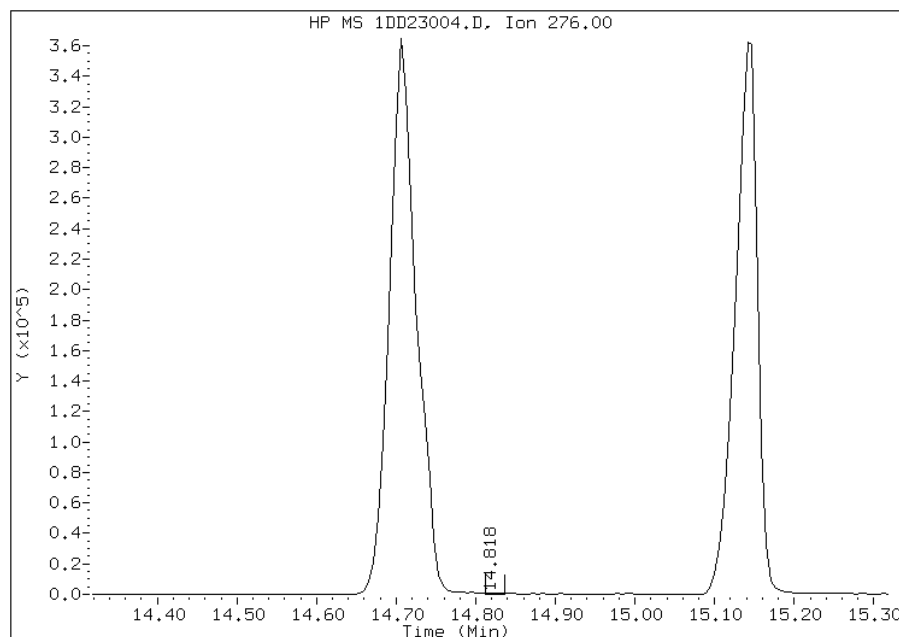


Manual Integration Report

Data File: 1DD23004.D
Inj. Date and Time: 23-APR-2013 13:06
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

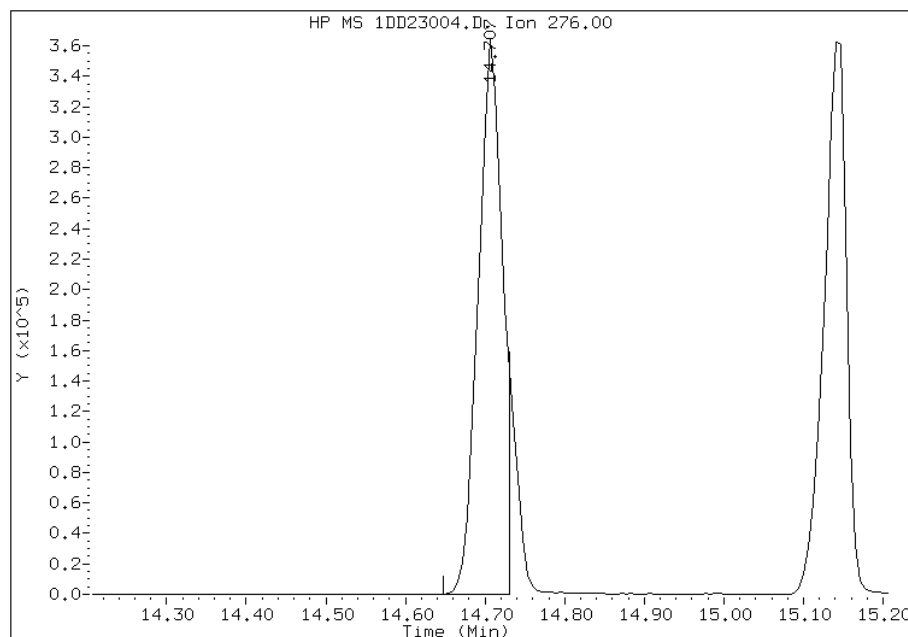
Processing Integration Results

RT: 14.82
Response: 582
Amount: 0
Conc: 0



Manual Integration Results

RT: 14.71
Response: 768192
Amount: 21
Conc: 21



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 14:48
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89459-2
 SDG No.: 68089459-2
 Lab Sample ID: CCVIS 660-136826/3 Calibration Date: 04/24/2013 12:46
 Instrument ID: BSMD5973 Calib Start Date: 04/04/2013 13:49
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/04/2013 16:04
 Lab File ID: 1DD24003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9942	0.9843	0.0000	19800	20000	-1.0	20.0
2-Methylnaphthalene	Ave	0.6418	0.6520	0.0000	20300	20000	1.6	20.0
1-Methylnaphthalene	Ave	0.6061	0.6079	0.0000	20100	20000	0.3	20.0
Acenaphthylene	Ave	1.693	1.701	0.0000	20100	20000	0.5	20.0
Acenaphthene	Ave	1.045	1.013	0.0000	19400	20000	-3.0	20.0
Fluorene	Ave	1.238	1.211	0.0000	19600	20000	-2.1	20.0
Phenanthrene	Ave	1.102	1.090	0.0000	19800	20000	-1.1	20.0
Anthracene	Ave	1.094	1.104	0.0000	20200	20000	0.9	20.0
Carbazole	Ave	0.9646	0.9520	0.0000	19700	20000	-1.3	20.0
Fluoranthene	Ave	1.134	1.150	0.0000	20300	20000	1.4	20.0
Pyrene	Ave	1.201	1.188	0.0000	19800	20000	-1.1	20.0
Benzo[a]anthracene	Ave	1.156	1.048	0.0000	18100	20000	-9.4	20.0
Chrysene	Ave	1.084	1.041	0.0000	19200	20000	-4.0	20.0
Benzo[b]fluoranthene	Ave	0.999	1.025	0.0000	20500	20000	2.5	20.0
Benzo[k]fluoranthene	Ave	1.053	1.002	0.0000	19000	20000	-4.8	20.0
Benzo[a]pyrene	Ave	1.004	0.996	0.0000	19800	20000	-0.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.071	1.052	0.0000	19700	20000	-1.7	20.0
Dibenz(a,h)anthracene	Ave	1.008	0.9940	0.0000	19700	20000	-1.4	20.0
Benzo[g,h,i]perylene	Ave	1.031	1.007	0.0000	19500	20000	-2.3	20.0
o-Terphenyl	Ave	0.6027	0.6143	0.0000	20400	20000	1.9	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\1DD24003.D
 Lab Smp Id: CCV-1531401
 Inj Date : 24-APR-2013 12:46
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : CCV-1531401
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\dFASTPAHi.m
 Meth Date : 24-Apr-2013 13:05 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.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

						AMOUNTS			
		QUANT	SIG					CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	
=====		=====	=====	=====	=====	=====	=====	=====	
*	1 Naphthalene-d8	136	6.049	6.049	(1.000)	2248073	40.0000	(H)	
*	6 Acenaphthene-d10	164	7.730	7.730	(1.000)	1360336	40.0000		
*	9 Phenanthrene-d10	188	8.993	8.993	(1.000)	2236773	40.0000		
\$	13 o-Terphenyl	230	9.298	9.298	(1.034)	686999	20.0000	20	
*	17 Chrysene-d12	240	11.302	11.302	(1.000)	2287204	40.0000	(H)	
*	22 Perylene-d12	264	13.123	13.123	(1.000)	2285243	40.0000	(H)	
	2 Naphthalene	128	6.073	6.073	(1.004)	1106362	20.0000	20(H)	
	3 2-Methylnaphthalene	142	6.778	6.778	(1.120)	732819	20.0000	20(H)	
	4 1-Methylnaphthalene	142	6.872	6.872	(1.136)	683316	20.0000	20(H)	
	5 Acenaphthylene	152	7.600	7.600	(0.983)	1156826	20.0000	20	
	7 Acenaphthene	154	7.759	7.759	(1.004)	689345	20.0000	19	
	8 Fluorene	166	8.200	8.200	(1.061)	823682	20.0000	20	
	10 Phenanthrene	178	9.010	9.010	(1.002)	1218790	20.0000	20	
	11 Anthracene	178	9.052	9.052	(1.007)	1234412	20.0000	20	
	12 Carbazole	167	9.193	9.193	(1.022)	1064684	20.0000	20	
	14 Fluoranthene	202	9.997	9.997	(1.112)	1285768	20.0000	20	
	15 Pyrene	202	10.185	10.185	(0.901)	1358518	20.0000	20(H)	
	16 Benzo(a)anthracene	228	11.284	11.284	(0.998)	1198684	20.0000	18(H)	
	18 Chrysene	228	11.331	11.331	(1.003)	1189923	20.0000	19(H)	
	19 Benzo(b)fluoranthene	252	12.583	12.583	(0.959)	1170718	20.0000	20(H)	
	20 Benzo(k)fluoranthene	252	12.618	12.618	(0.961)	1145013	20.0000	19(H)	
	21 Benzo(a)pyrene	252	13.029	13.029	(0.993)	1138342	20.0000	20(H)	
	23 Indeno(1,2,3-cd)pyrene	276	14.710	14.710	(1.121)	1202370	20.0000	20(MH)	
	24 Dibenzo(a,h)anthracene	278	14.733	14.733	(1.123)	1135731	20.0000	20(H)	
	25 Benzo(g,h,i)perylene	276	15.150	15.150	(1.154)	1150367	20.0000	20(H)	

QC Flag Legend

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

Data File: 1DD24003.D

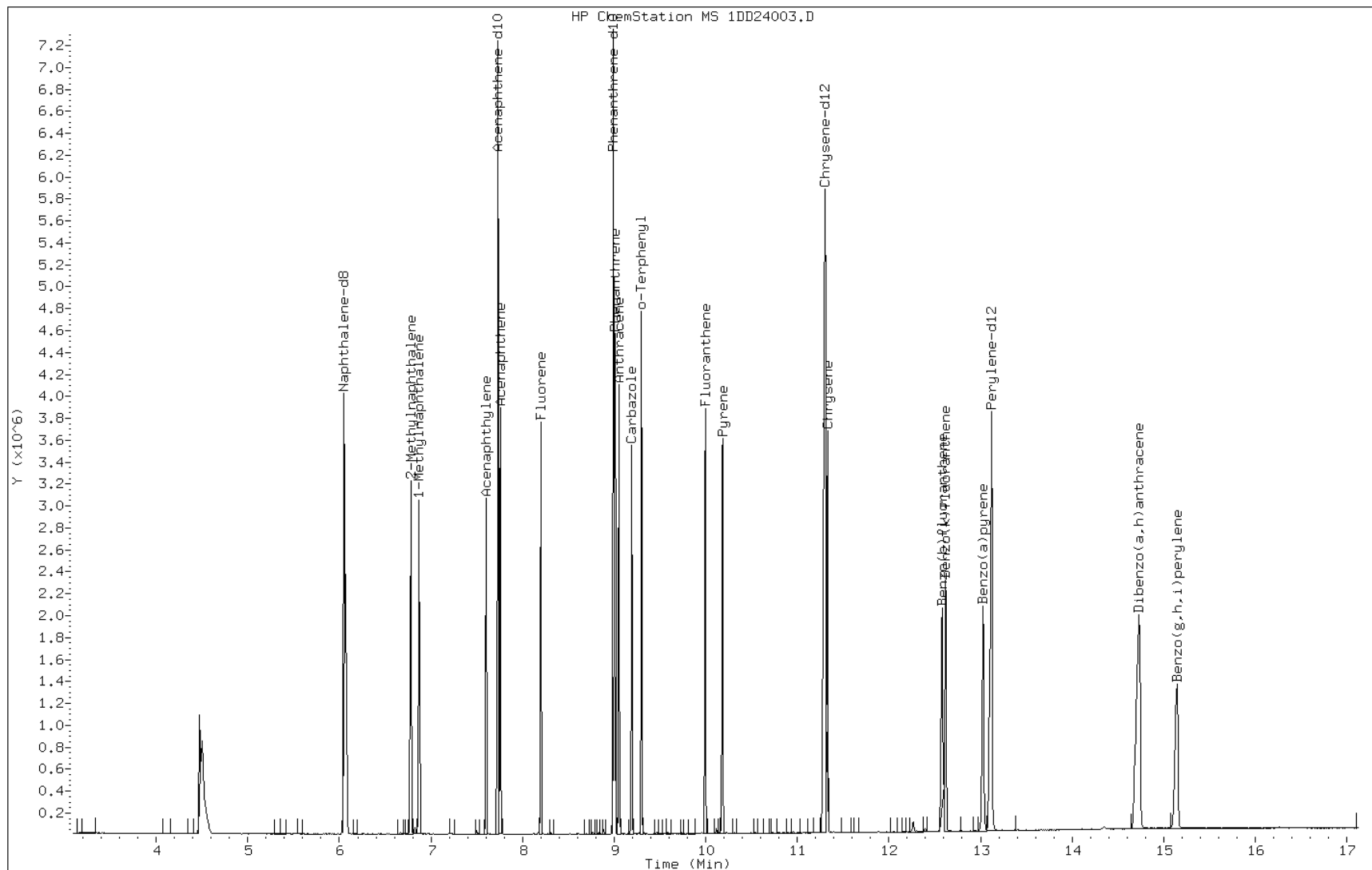
Date: 24-APR-2013 12:46

Client ID:

Instrument: BSMSD.i

Sample Info: CCV-1531401

Operator: SCC

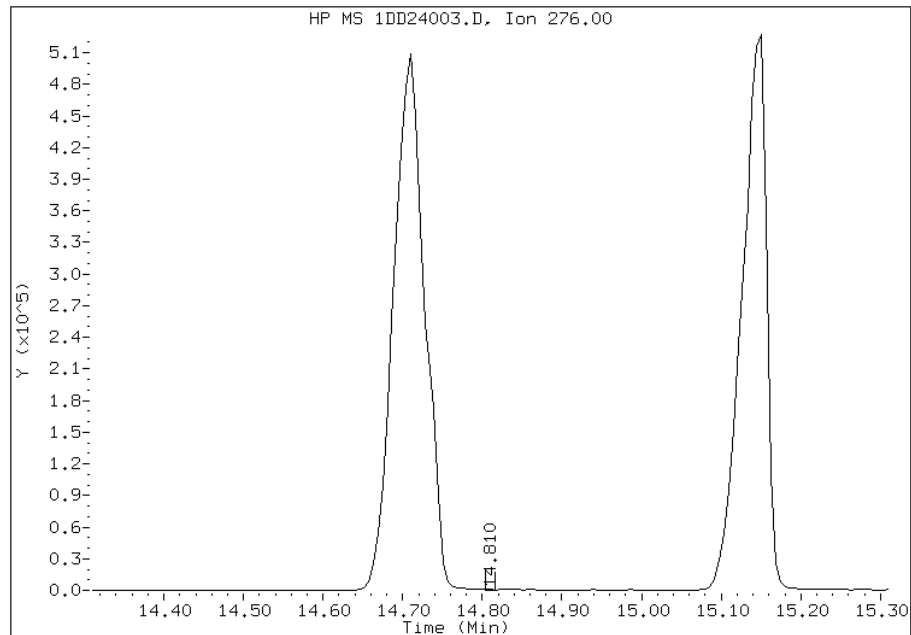


Manual Integration Report

Data File: 1DD24003.D
Inj. Date and Time: 24-APR-2013 12:46
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

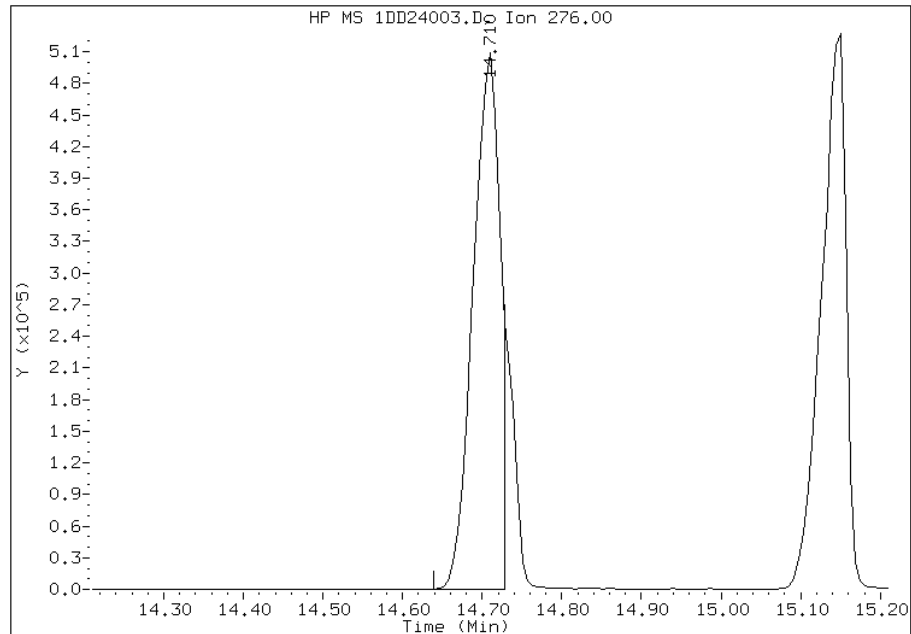
Processing Integration Results

RT: 14.81
Response: 268
Amount: 0
Conc: 0



Manual Integration Results

RT: 14.71
Response: 1202370
Amount: 20
Conc: 20



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 13:06
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24006.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 24-APR-2013 13:40
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1525850
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.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					
7.227	7.469	-0.242	198	21949			50.00-	0.00	100.00
7.227	7.469	-0.242	51	15744			10.00-	80.00	71.73
7.227	7.469	-0.242	68	238			0.00-	2.00	1.48
7.227	7.469	-0.242	69	16075			0.00-	0.00	73.24
7.227	7.469	-0.242	70	0	0.0	0.0	0.00-	2.00	0.00
7.227	7.469	-0.242	127	13070			10.00-	80.00	59.55
7.227	7.469	-0.242	197	427			0.00-	2.00	1.95
7.227	7.469	-0.242	442	12881			50.00-	0.00	58.69
7.227	7.469	-0.242	199	1499			5.00-	9.00	6.83
7.227	7.469	-0.242	275	5028			10.00-	60.00	22.91
7.227	7.469	-0.242	365	1608			1.00-	0.00	7.33
7.227	7.469	-0.242	441	2253			0.01-	99.99	88.01
7.227	7.469	-0.242	443	2560			15.00-	24.00	19.87

Data File: 1CD24006.D

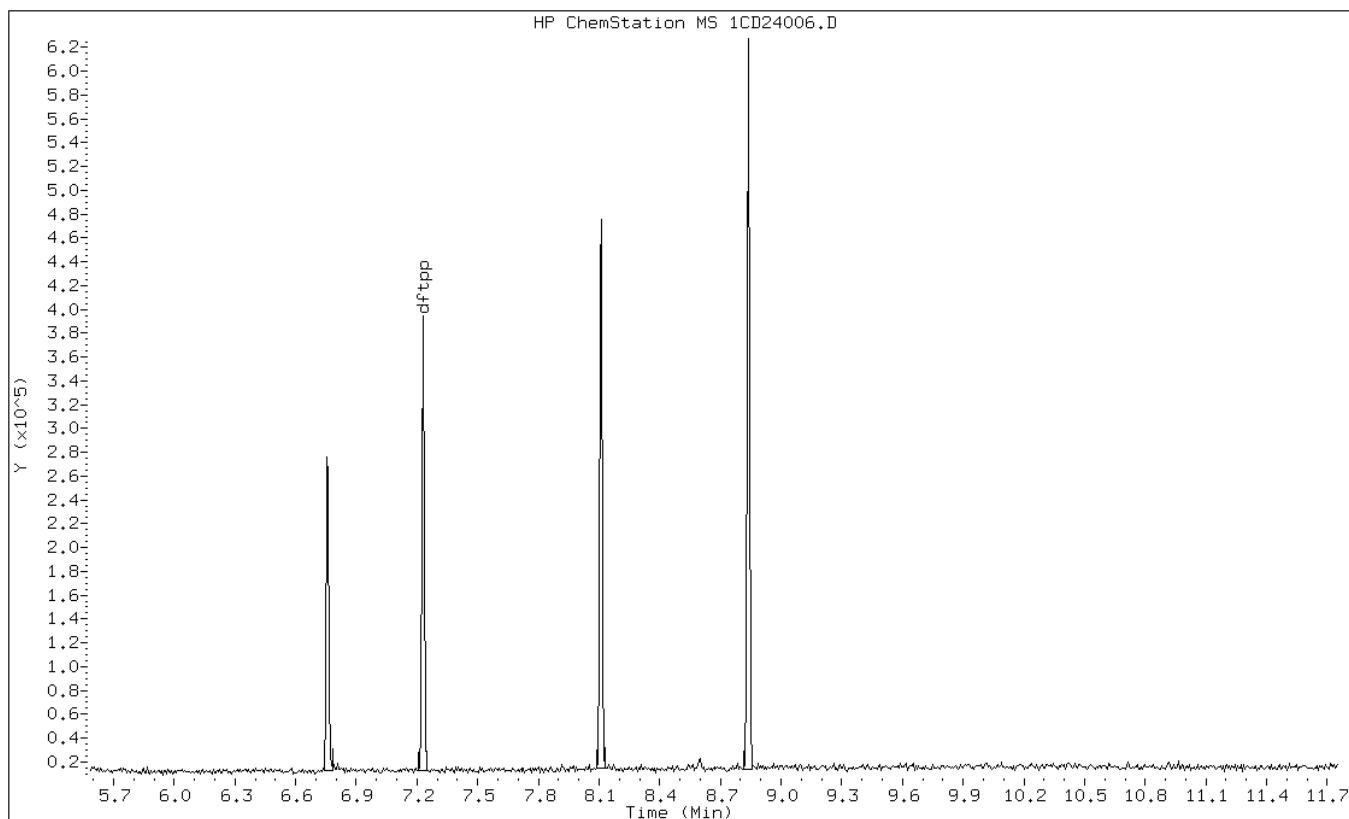
Date: 24-APR-2013 13:40

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1CD24006.D

Date: 24-APR-2013 13:40

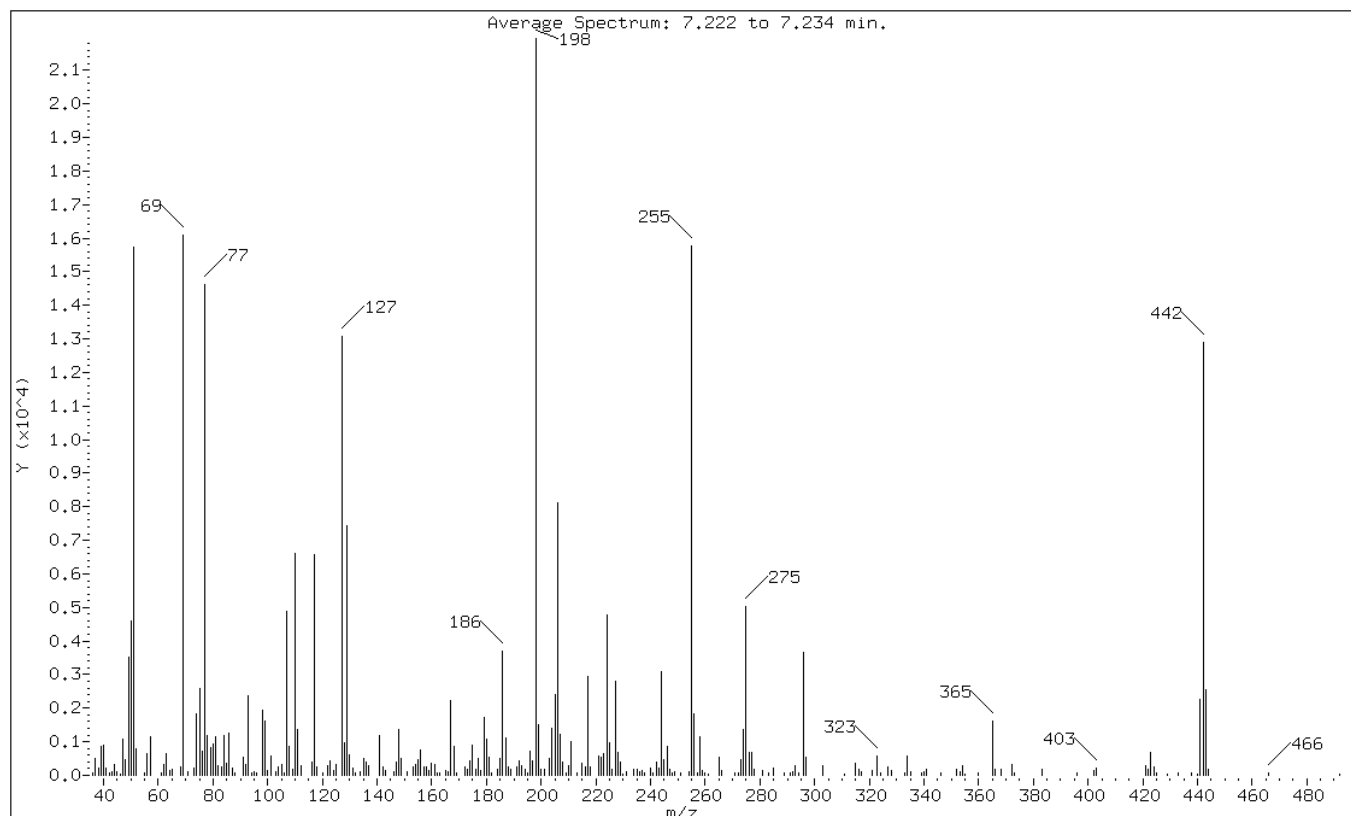
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

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	71.73
68	Less than 2.00% of mass 69	1.08 (1.48)
69	Mass 69 relative abundance	73.24
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	59.55
197	Less than 2.00% of mass 198	1.95
442	Greater than 50.00% of mass 198	58.69
199	5.00 - 9.00% of mass 198	6.83
275	10.00 - 60.00% of mass 198	22.91
365	Greater than 1.00% of mass 198	7.33
441	Present, but less than mass 443	10.26
443	15.00 - 24.00% of mass 442	11.66 (19.87)

Data File: 1CD24006.D

Date: 24-APR-2013 13:40

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24006.D
Spectrum: Average Spectrum: 7.222 to 7.234 min.
Location of Maximum: 198.00
Number of points: 249

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	77	112.00	270	194.00	170	275.00	5028
37.00	490	116.00	378	195.00	79	276.00	699
38.00	221	117.00	6578	196.00	713	277.00	686
39.00	874	118.00	239	197.00	427	278.00	189
40.00	890	120.00	63	198.00	21944	281.00	133
41.00	226	122.00	271	199.00	1499	283.00	81
42.00	58	123.00	420	200.00	166	285.00	200
43.00	101	124.00	127	201.00	188	289.00	59
44.00	310	125.00	328	203.00	502	291.00	86
45.00	121	127.00	13070	204.00	1395	292.00	100
46.00	51	128.00	987	205.00	2409	293.00	280
47.00	1086	129.00	7442	206.00	8127	294.00	71
48.00	471	130.00	604	207.00	1235	296.00	3668
49.00	3519	131.00	221	208.00	392	297.00	547
50.00	4580	132.00	82	209.00	63	303.00	303
51.00	15744	134.00	115	210.00	283	311.00	53
52.00	773	135.00	491	211.00	1011	315.00	371
55.00	70	136.00	397	213.00	59	316.00	169
56.00	645	137.00	276	215.00	355	317.00	118
57.00	1151	141.00	1168	216.00	240	321.00	157
61.00	65	142.00	244	217.00	2938	323.00	559
62.00	332	143.00	148	218.00	254	324.00	69
63.00	655	146.00	102	221.00	570	327.00	259
64.00	140	147.00	411	222.00	525	328.00	140
65.00	187	148.00	1368	223.00	662	333.00	56
68.00	238	149.00	500	224.00	4787	334.00	558
69.00	16075	151.00	111	225.00	960	335.00	116
71.00	93	153.00	252	226.00	170	339.00	60
73.00	202	154.00	307	227.00	2802	340.00	108
74.00	1833	155.00	457	228.00	668	341.00	163
75.00	2594	156.00	764	229.00	411	346.00	56
76.00	732	157.00	263	230.00	50	352.00	166
77.00	14626	158.00	255	231.00	100	353.00	114
78.00	1203	159.00	139	234.00	196	354.00	272
79.00	823	160.00	359	235.00	165	355.00	51
80.00	923	161.00	333	236.00	98	360.00	54
81.00	1151	162.00	71	237.00	130	365.00	1608
82.00	293	163.00	74	238.00	56	366.00	185
83.00	265	165.00	145	240.00	225	368.00	181
84.00	1176	166.00	116	241.00	57	372.00	317

85.00	348	167.00	2233	242.00	403	373.00	59
86.00	1245	168.00	845	243.00	211	383.00	185
87.00	231	169.00	73	244.00	3072	396.00	73
88.00	67	172.00	249	245.00	467	402.00	145
91.00	556	173.00	182	246.00	861	403.00	232
92.00	324	174.00	415	247.00	191	421.00	276
93.00	2363	175.00	881	248.00	58	422.00	167
94.00	54	176.00	171	249.00	100	423.00	682
95.00	98	177.00	489	251.00	55	424.00	251
96.00	70	178.00	138	254.00	113	425.00	63
98.00	1936	179.00	1719	255.00	15751	429.00	52
99.00	1629	180.00	1068	256.00	1834	433.00	88
100.00	138	181.00	521	257.00	63	438.00	70
101.00	578	182.00	60	258.00	1138	440.00	53
103.00	124	184.00	171	259.00	137	441.00	2253
104.00	258	185.00	513	260.00	75	442.00	12881
105.00	319	186.00	3712	261.00	52	443.00	2560
106.00	86	187.00	1123	265.00	538	444.00	195
107.00	4898	188.00	268	266.00	137	466.00	77
108.00	853	189.00	193	271.00	66	492.00	50
109.00	187	191.00	238	272.00	54		
110.00	6596	192.00	442	273.00	478		
111.00	1368	193.00	299	274.00	1355		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04003.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 04-APR-2013 12:15
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : DFTPP-1525850
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\d-dftpp198.m
 Meth Date : 08-Jan-2013 12:23 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

CONCENTRATIONS									
		ON-COL		FINAL					
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 dftpp				CAS #: 5074-71-5					
8.382	8.532	-0.150	198	72572			50.00-	0.00	100.00
8.382	8.532	-0.150	51	32556			10.00-	80.00	44.86
8.382	8.532	-0.150	68	0	0.0	0.0	0.00-	2.00	0.00
8.382	8.532	-0.150	69	32936			0.00-	0.00	45.38
8.382	8.532	-0.150	70	114			0.00-	2.00	0.35
8.382	8.532	-0.150	127	36680			10.00-	80.00	50.54
8.382	8.532	-0.150	197	0	0.0	0.0	0.00-	2.00	0.00
8.382	8.532	-0.150	442	48716			50.00-	0.00	67.13
8.382	8.532	-0.150	199	4977			5.00-	9.00	6.86
8.382	8.532	-0.150	275	19350			10.00-	60.00	26.66
8.382	8.532	-0.150	365	2279			1.00-	0.00	3.14
8.382	8.532	-0.150	441	2370			0.01-	99.99	23.58
8.382	8.532	-0.150	443	10052			15.00-	24.00	20.63

Data File: 1DD04003.D

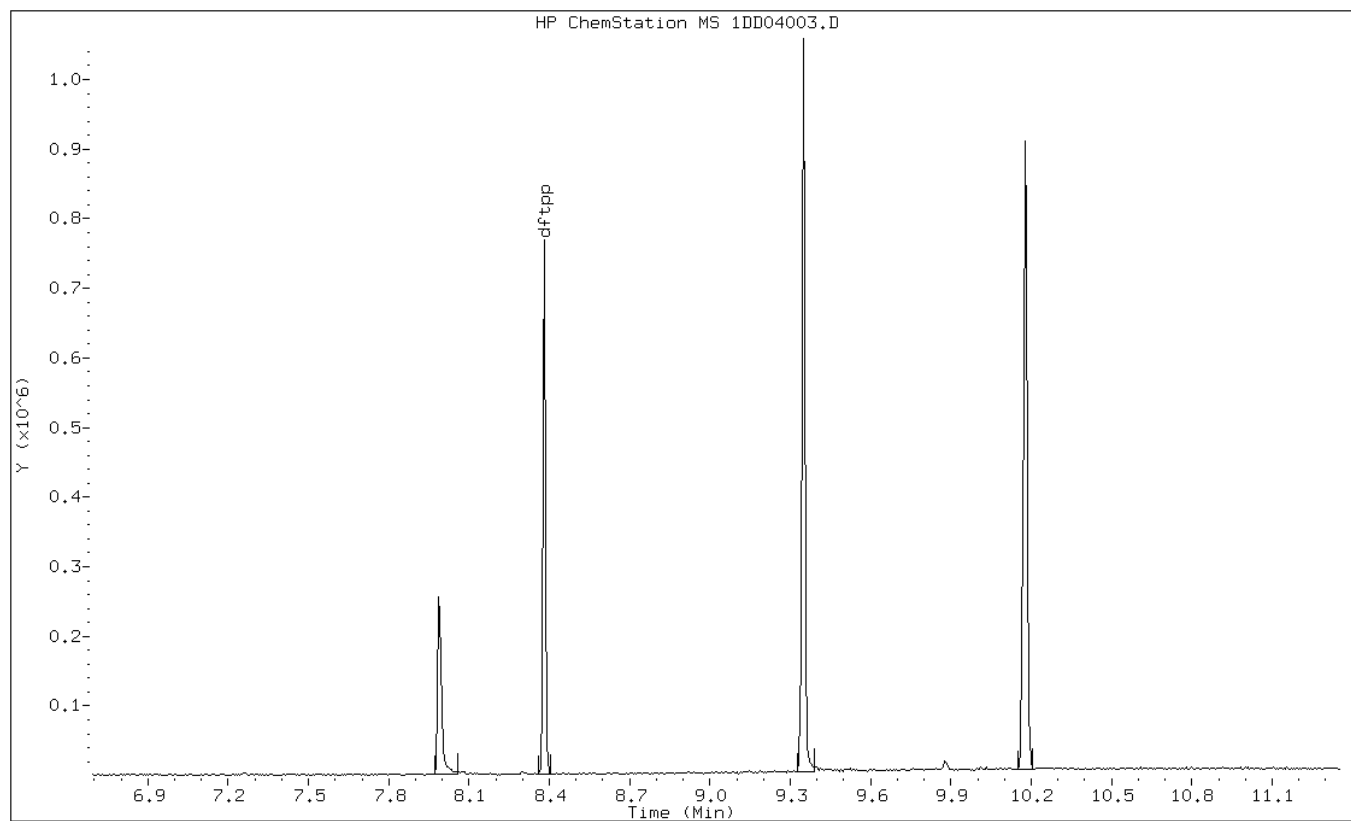
Date: 04-APR-2013 12:15

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1DD04003.D

Date: 04-APR-2013 12:15

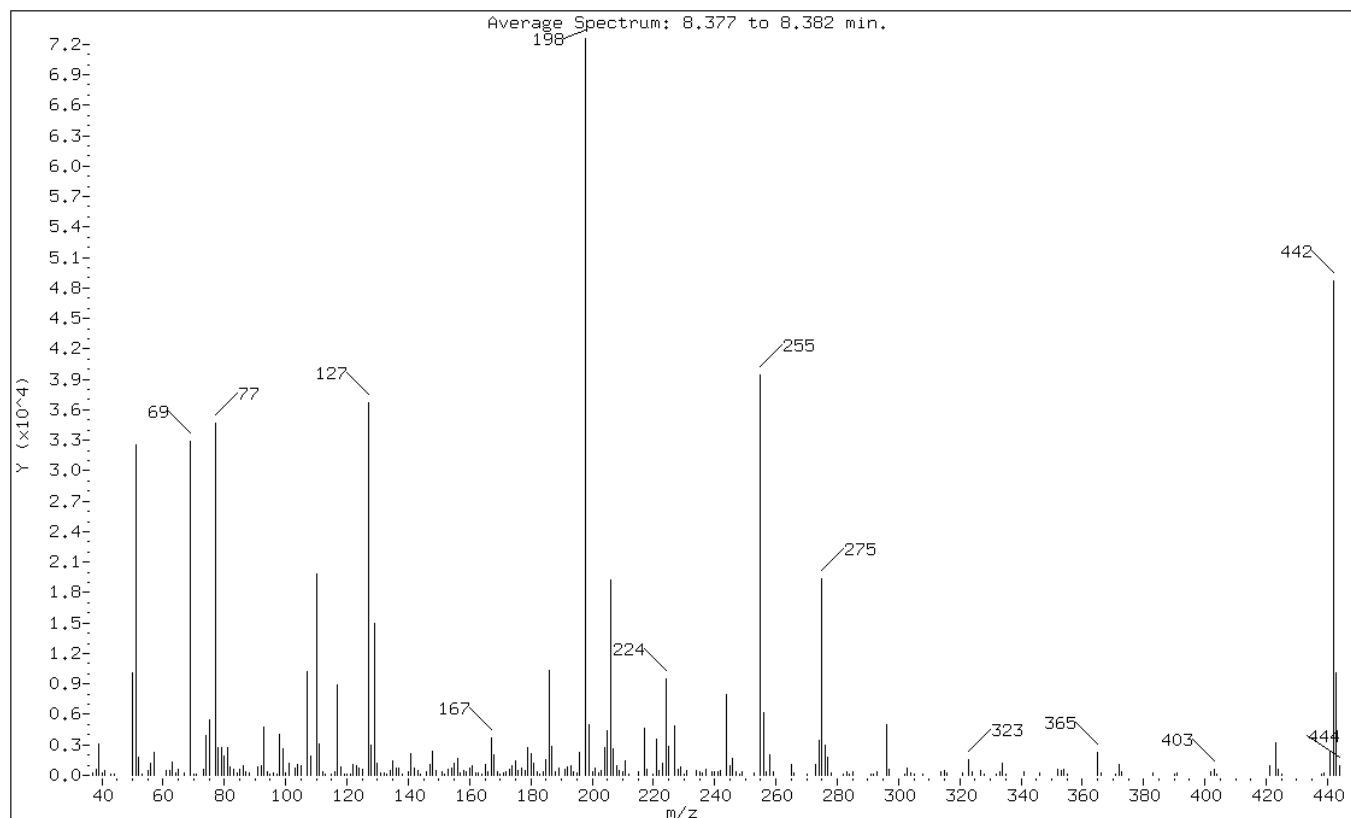
Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

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	44.86
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	45.38
70	Less than 2.00% of mass 69	0.16 (0.35)
127	10.00 - 80.00% of mass 198	50.54
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	67.13
199	5.00 - 9.00% of mass 198	6.86
275	10.00 - 60.00% of mass 198	26.66
365	Greater than 1.00% of mass 198	3.14
441	Present, but less than mass 443	3.27
443	15.00 - 24.00% of mass 442	13.85 (20.63)

Data File: 1DD04003.D

Date: 04-APR-2013 12:15

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04003.D
Spectrum: Average Spectrum: 8.377 to 8.382 min.
Location of Maximum: 198.00
Number of points: 246

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	274	119.00	120	185.00	1517	270.00	78
38.00	589	120.00	118	186.00	10284	273.00	1081
39.00	3038	121.00	77	187.00	2888	274.00	3485
40.00	277	122.00	1015	188.00	332	275.00	19344
41.00	463	123.00	946	189.00	735	276.00	2999
43.00	124	124.00	666	191.00	579	277.00	1839
44.00	117	125.00	567	192.00	873	278.00	226
50.00	10128	127.00	36680	193.00	975	282.00	81
51.00	32552	128.00	2957	194.00	335	283.00	314
52.00	1767	129.00	14951	195.00	275	284.00	90
53.00	85	130.00	1205	196.00	2233	285.00	356
55.00	420	131.00	194	198.00	72568	291.00	83
56.00	1176	132.00	206	199.00	4977	292.00	80
57.00	2213	133.00	92	200.00	323	293.00	412
61.00	490	134.00	523	201.00	663	296.00	5046
62.00	459	135.00	1404	202.00	210	297.00	576
63.00	1290	136.00	674	203.00	519	302.00	157
64.00	230	137.00	709	204.00	2685	303.00	675
65.00	539	138.00	79	205.00	4398	304.00	185
67.00	251	140.00	333	206.00	19200	305.00	82
69.00	32936	141.00	2082	207.00	2631	308.00	174
70.00	114	142.00	713	208.00	974	314.00	314
71.00	81	143.00	523	209.00	499	315.00	487
73.00	647	144.00	93	210.00	329	316.00	223
74.00	3962	146.00	312	211.00	1393	321.00	206
75.00	5478	147.00	1032	212.00	165	323.00	1494
77.00	34688	148.00	2326	215.00	308	324.00	410
78.00	2711	149.00	488	217.00	4596	327.00	476
79.00	2695	151.00	320	218.00	606	328.00	99
80.00	1923	152.00	103	220.00	76	332.00	111
81.00	2677	153.00	558	221.00	3596	333.00	396
82.00	777	154.00	665	222.00	431	334.00	1163
83.00	630	155.00	1227	223.00	1208	335.00	119
84.00	185	156.00	1628	224.00	9447	341.00	297
85.00	566	157.00	240	225.00	2804	346.00	197
86.00	895	158.00	430	227.00	4861	352.00	557
87.00	384	159.00	320	228.00	637	353.00	477
88.00	184	160.00	765	229.00	843	354.00	558
91.00	856	161.00	1005	230.00	115	355.00	81
92.00	893	162.00	279	231.00	446	365.00	2279

93.00	4736	163.00	190	234.00	485	366.00	181
94.00	298	164.00	105	235.00	402	371.00	117
95.00	167	165.00	1019	236.00	243	372.00	1076
96.00	240	166.00	344	237.00	537	373.00	335
97.00	178	167.00	3671	239.00	320	383.00	219
+-----+							
98.00	4066	168.00	1997	240.00	333	390.00	136
99.00	2655	169.00	349	241.00	361	391.00	180
100.00	295	170.00	112	242.00	472	402.00	362
101.00	1142	171.00	208	244.00	7939	403.00	564
103.00	719	172.00	342	245.00	988	404.00	144
+-----+							
104.00	1122	173.00	643	246.00	1619	421.00	961
105.00	909	174.00	893	247.00	381	423.00	3222
107.00	10195	175.00	1368	248.00	80	424.00	628
108.00	1940	176.00	519	249.00	382	425.00	87
110.00	19784	177.00	713	253.00	265	438.00	129
+-----+							
111.00	3136	178.00	422	255.00	39432	439.00	214
112.00	374	179.00	2728	256.00	6151	441.00	2370
113.00	128	180.00	2151	257.00	340	442.00	48712
115.00	153	181.00	1200	258.00	2068	443.00	10052
116.00	393	182.00	314	259.00	399	444.00	994
+-----+							
117.00	8897	183.00	98	265.00	1086		
118.00	800	184.00	382	266.00	282		
+-----+							

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23003.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 23-APR-2013 12:50
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : DFTPP-1525850
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\d-dftpp198.m
 Meth Date : 08-Jan-2013 12:23 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

CONCENTRATIONS									
		ON-COL		FINAL					
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 dftpp				CAS #: 5074-71-5					
8.349	8.532	-0.183	198	62708			50.00-	0.00	100.00
8.349	8.532	-0.183	51	26699			10.00-	80.00	42.58
8.349	8.532	-0.183	68	0	0.0	0.0	0.00-	2.00	0.00
8.349	8.532	-0.183	69	26024			0.00-	0.00	41.50
8.349	8.532	-0.183	70	130			0.00-	2.00	0.50
8.349	8.532	-0.183	127	31676			10.00-	80.00	50.51
8.349	8.532	-0.183	197	421			0.00-	2.00	0.67
8.349	8.532	-0.183	442	59344			50.00-	0.00	94.64
8.349	8.532	-0.183	199	4475			5.00-	9.00	7.14
8.349	8.532	-0.183	275	18977			10.00-	60.00	30.26
8.349	8.532	-0.183	365	2543			1.00-	0.00	4.06
8.349	8.532	-0.183	441	4731			0.01-	99.99	40.74
8.349	8.532	-0.183	443	11614			15.00-	24.00	19.57

Data File: 1DD23003.D

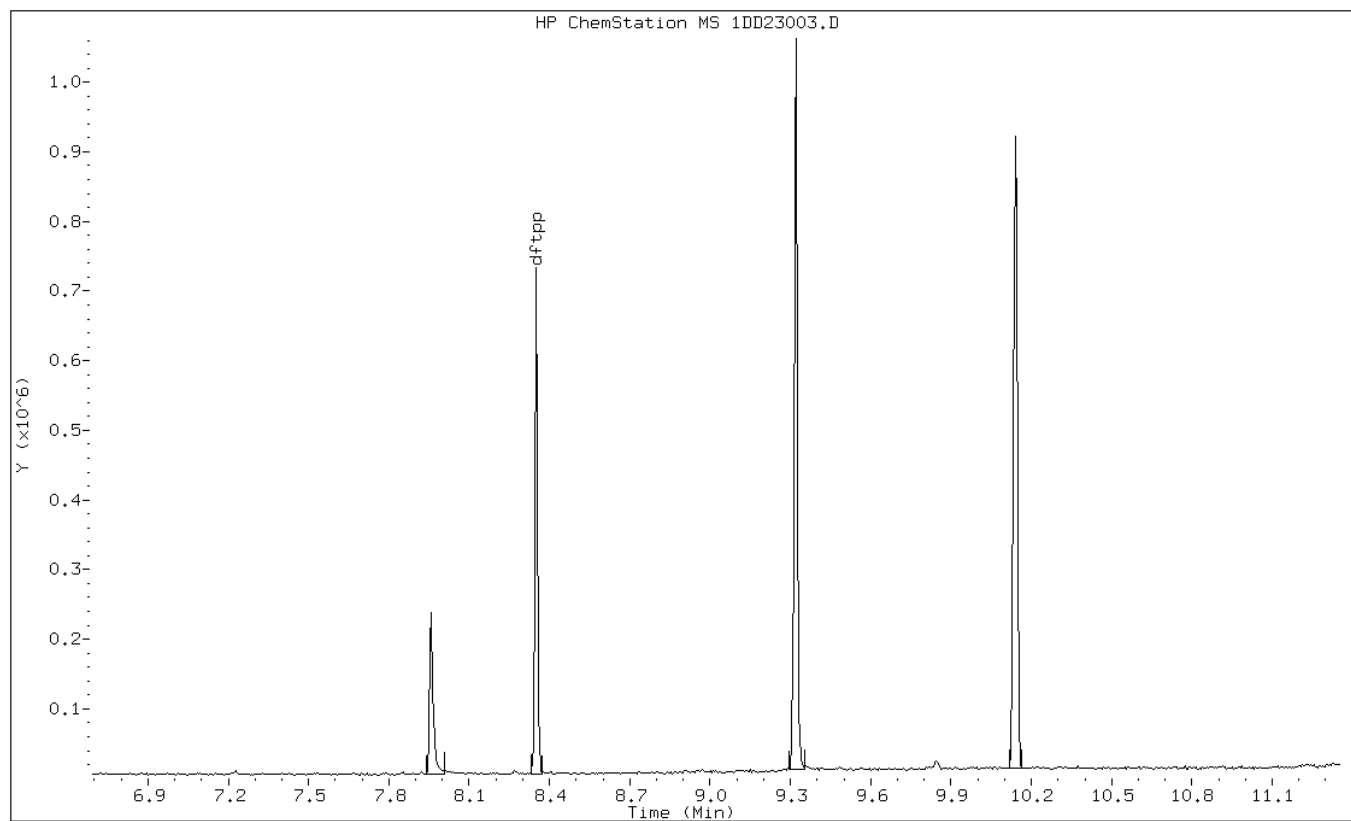
Date: 23-APR-2013 12:50

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1DD23003.D

Date: 23-APR-2013 12:50

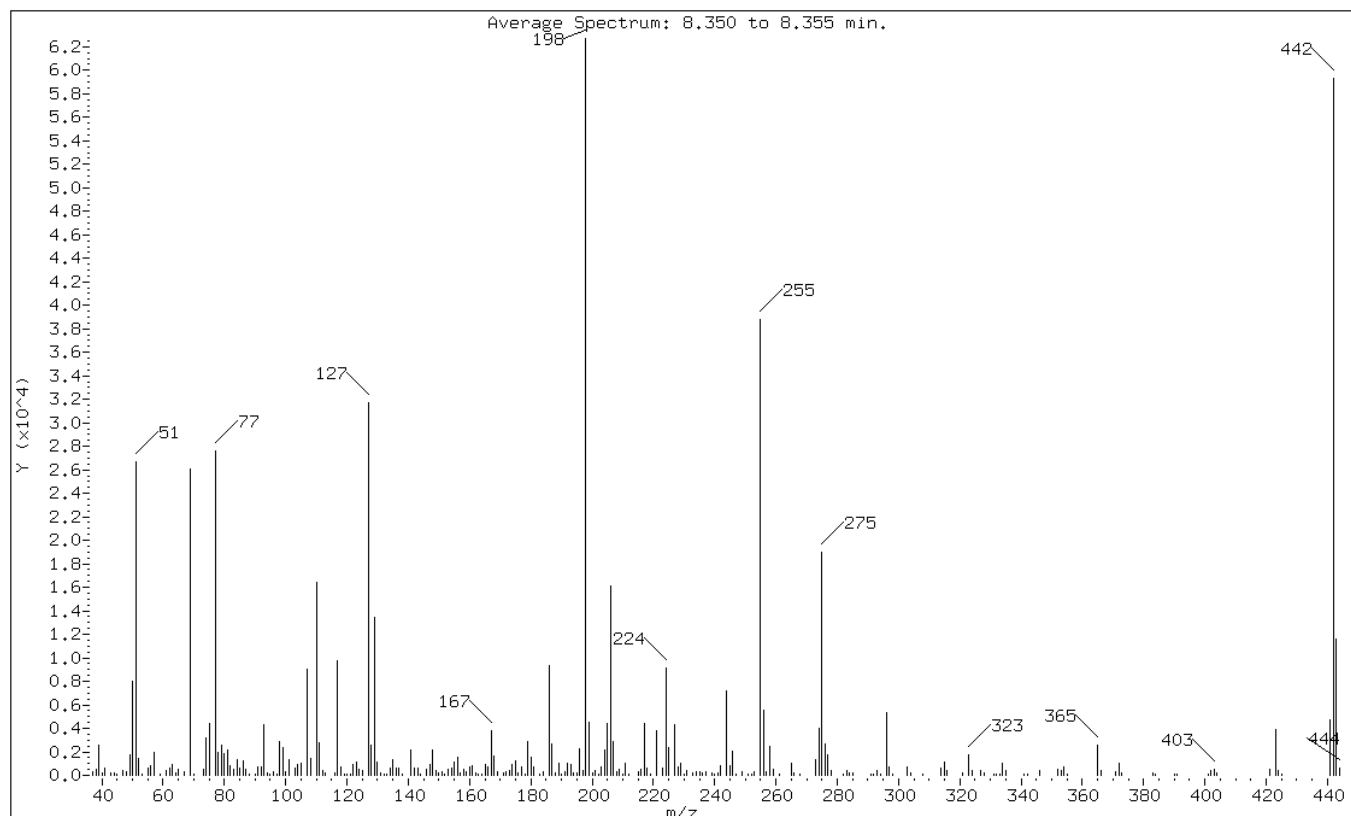
Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

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	42.58
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	41.50
70	Less than 2.00% of mass 69	0.21 (0.50)
127	10.00 - 80.00% of mass 198	50.51
197	Less than 2.00% of mass 198	0.67
442	Greater than 50.00% of mass 198	94.64
199	5.00 - 9.00% of mass 198	7.14
275	10.00 - 60.00% of mass 198	30.26
365	Greater than 1.00% of mass 198	4.06
441	Present, but less than mass 443	7.54
443	15.00 - 24.00% of mass 442	18.52 (19.57)

Data File: 1DD23003.D

Date: 23-APR-2013 12:50

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23003.D
Spectrum: Average Spectrum: 8.350 to 8.355 min.
Location of Maximum: 198.00
Number of points: 254

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	257	117.00	9760	188.00	191	268.00	75
38.00	552	118.00	756	189.00	1034	273.00	1309
39.00	2568	119.00	149	190.00	132	274.00	3966
40.00	169	120.00	104	191.00	344	275.00	18976
41.00	645	121.00	83	192.00	978	276.00	2621
43.00	231	122.00	944	193.00	946	277.00	1750
44.00	240	123.00	1176	194.00	249	278.00	364
45.00	102	124.00	469	195.00	173	282.00	84
47.00	367	125.00	373	196.00	2266	283.00	394
48.00	275	127.00	31672	197.00	421	284.00	177
49.00	1726	128.00	2594	198.00	62704	285.00	193
50.00	8047	129.00	13446	199.00	4475	291.00	96
51.00	26696	130.00	1080	200.00	191	292.00	85
52.00	1399	131.00	181	201.00	436	293.00	441
53.00	82	132.00	76	202.00	123	294.00	136
55.00	608	133.00	89	203.00	685	296.00	5382
56.00	872	134.00	581	204.00	2173	297.00	741
57.00	1951	135.00	1335	205.00	4445	298.00	84
59.00	107	136.00	567	206.00	16157	303.00	671
61.00	377	137.00	591	207.00	2829	304.00	255
62.00	614	138.00	95	208.00	313	308.00	83
63.00	912	141.00	2105	209.00	556	314.00	600
64.00	241	142.00	615	210.00	124	315.00	1180
65.00	548	143.00	624	211.00	1011	316.00	360
67.00	305	144.00	84	212.00	103	321.00	214
69.00	26024	146.00	464	215.00	353	323.00	1717
70.00	130	147.00	950	216.00	504	324.00	437
73.00	467	148.00	2205	217.00	4408	327.00	426
74.00	3147	149.00	445	218.00	582	328.00	167
75.00	4443	150.00	245	219.00	86	331.00	92
77.00	27584	151.00	264	221.00	3749	332.00	131
78.00	1920	152.00	114	223.00	640	333.00	144
79.00	2523	153.00	511	224.00	9147	334.00	1049
80.00	1825	154.00	632	225.00	2392	335.00	387
81.00	2155	155.00	1167	227.00	4280	341.00	116
82.00	804	156.00	1522	228.00	743	342.00	89
83.00	507	157.00	169	229.00	998	346.00	393
84.00	1321	158.00	484	230.00	87	352.00	564
85.00	617	159.00	349	231.00	433	353.00	423
86.00	1252	160.00	760	233.00	190	354.00	760

87.00	477	161.00	842	234.00	258	355.00	83
88.00	124	162.00	226	235.00	352	365.00	2543
90.00	81	163.00	94	236.00	158	366.00	410
91.00	717	164.00	89	237.00	345	371.00	290
92.00	671	165.00	899	239.00	197	372.00	975
93.00	4319	166.00	728	240.00	99	373.00	188
94.00	207	167.00	3816	241.00	221	383.00	168
95.00	127	168.00	1626	242.00	841	384.00	81
96.00	299	169.00	278	244.00	7218	390.00	149
97.00	106	171.00	244	245.00	864	391.00	81
98.00	2884	172.00	326	246.00	2070	401.00	85
99.00	2385	173.00	391	247.00	127	402.00	429
100.00	322	174.00	886	249.00	278	403.00	558
101.00	1371	175.00	1228	251.00	89	404.00	249
103.00	594	176.00	178	252.00	89	421.00	481
104.00	952	177.00	727	253.00	349	423.00	3883
105.00	984	178.00	75	255.00	38752	424.00	458
107.00	9051	179.00	2835	256.00	5568	425.00	83
108.00	1386	180.00	1570	257.00	270	441.00	4731
110.00	16384	181.00	722	258.00	2427	442.00	59344
111.00	2756	183.00	81	259.00	479	443.00	11614
112.00	445	184.00	309	261.00	76	444.00	590
113.00	163	186.00	9379	265.00	1003		
116.00	192	187.00	2701	266.00	221		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\1DD24002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 24-APR-2013 12:30
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : DFTPP-1525850
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\d-dftpp198.m
 Meth Date : 08-Jan-2013 12:23 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

CONCENTRATIONS									
		ON-COL		FINAL					
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 dftpp				CAS #: 5074-71-5					
8.344	8.532	-0.188	198	78584			50.00-	0.00	100.00
8.344	8.532	-0.188	51	30672			10.00-	80.00	39.03
8.344	8.532	-0.188	68	0	0.0	0.0	0.00-	2.00	0.00
8.344	8.532	-0.188	69	30256			0.00-	0.00	38.50
8.344	8.532	-0.188	70	0	0.0	0.0	0.00-	2.00	0.00
8.344	8.532	-0.188	127	36600			10.00-	80.00	46.57
8.344	8.532	-0.188	197	0	0.0	0.0	0.00-	2.00	0.00
8.344	8.532	-0.188	442	71056			50.00-	0.00	90.42
8.344	8.532	-0.188	199	5585			5.00-	9.00	7.11
8.344	8.532	-0.188	275	24632			10.00-	60.00	31.34
8.344	8.532	-0.188	365	3002			1.00-	0.00	3.82
8.344	8.532	-0.188	441	10979			0.01-	99.99	72.76
8.344	8.532	-0.188	443	15089			15.00-	24.00	21.24

Data File: 1DD24002.D

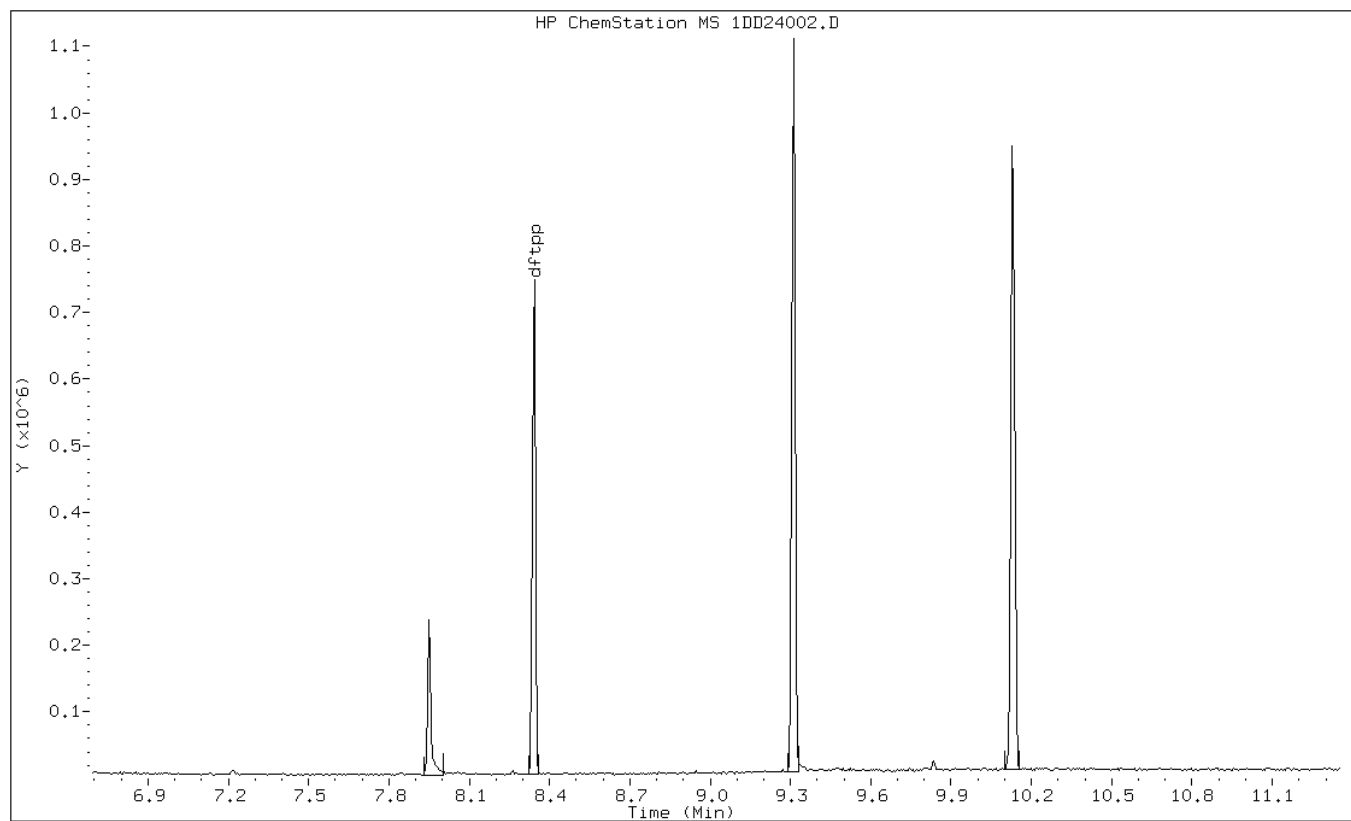
Date: 24-APR-2013 12:30

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1DD24002.D

Date: 24-APR-2013 12:30

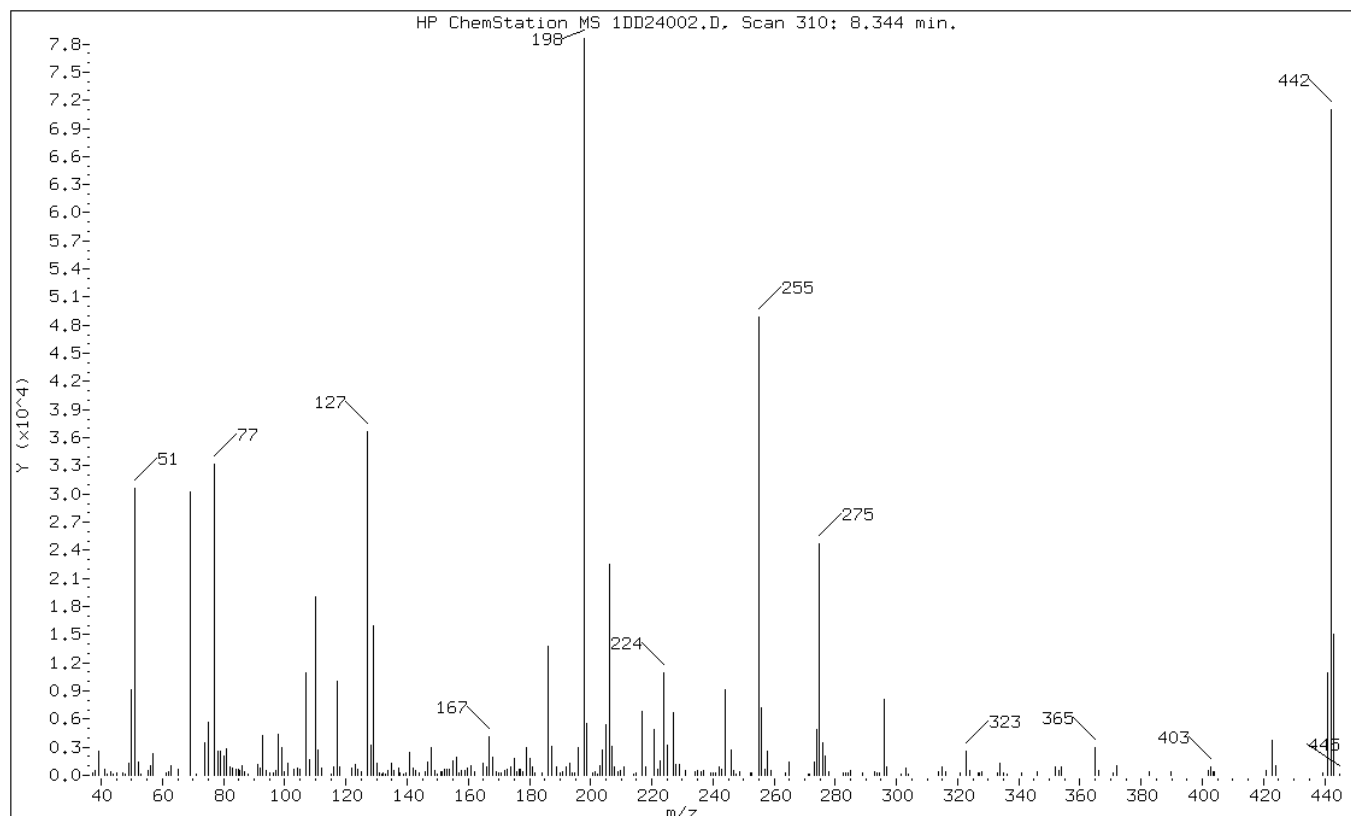
Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	39.03
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	38.50
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	46.57
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	90.42
199	5.00 - 9.00% of mass 198	7.11
275	10.00 - 60.00% of mass 198	31.34
365	Greater than 1.00% of mass 198	3.82
441	Present, but less than mass 443	13.97
443	15.00 - 24.00% of mass 442	19.20 (21.24)

Data File: 1DD24002.D

Date: 24-APR-2013 12:30

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\1DD24002.D
Spectrum: HP ChemStation MS 1DD24002.D, Scan 310: 8.344 min.
Location of Maximum: 197.90
Number of points: 242

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.20	290	117.90	851	184.00	320	263.80	209
38.00	561	122.00	798	186.00	13821	264.90	1466
39.10	2537	123.10	1178	187.10	3028	271.00	154
41.00	590	124.00	628	189.00	881	271.70	188
42.10	176	125.10	448	190.20	275	273.10	1387
43.00	331	126.90	36600	190.80	386	273.90	4868
43.90	177	128.00	3264	191.00	392	274.90	24632
44.90	200	128.90	15953	191.90	903	276.00	3528
47.00	267	130.00	1230	193.00	1315	276.80	2072
48.00	187	131.00	225	194.00	273	278.00	336
49.10	1281	131.80	160	194.90	219	282.80	239
50.00	9106	132.30	228	196.00	2967	283.20	205
51.00	30672	133.10	176	197.90	78584	284.00	256
52.10	1470	133.90	504	198.80	5585	284.80	466
53.00	173	135.00	1306	200.50	257	288.80	234
55.20	469	135.80	557	201.30	410	292.80	429
56.00	1078	137.10	797	202.10	158	293.70	275
57.00	2297	137.80	247	203.00	980	294.50	243
61.30	246	138.80	186	204.00	2712	295.90	8047
62.00	379	139.80	246	205.00	5428	296.90	886
63.00	1044	140.90	2492	206.00	22536	301.60	169
65.00	678	141.90	736	207.00	3085	303.10	760
69.00	30256	142.90	491	207.90	867	304.00	162
71.00	191	143.90	218	208.90	419	313.70	366
74.00	3515	145.80	446	209.90	537	315.00	938
75.00	5681	146.90	1381	210.80	952	316.10	447
77.00	33136	147.90	2979	213.90	162	320.90	307
78.00	2580	149.00	544	215.00	241	322.90	2627
78.90	2550	150.00	158	217.00	6870	323.90	469
80.00	2078	151.10	413	217.90	862	326.70	278
81.00	2867	151.40	432	220.90	4832	327.10	251
82.00	901	152.30	596	222.10	583	328.00	404
83.00	810	152.90	699	222.90	1526	333.10	297
84.00	636	153.90	696	224.00	10988	333.90	1260
84.90	699	155.10	1550	224.90	3154	335.00	299
85.20	542	156.00	1897	226.90	6639	336.00	189
86.10	1051	157.10	309	228.00	1124	340.90	288
86.80	351	157.80	463	229.00	1208	346.10	418
88.10	172	158.80	495	230.90	526	352.00	866
91.00	1101	159.90	710	234.00	439	353.00	569

91.90	734	161.00	983	234.90	473	353.90	870
92.90	4181	162.10	326	236.10	406	364.90	3002
93.90	483	164.90	1295	236.80	528	366.00	503
95.00	243	166.00	892	239.10	243	370.80	293
96.10	240	166.90	4151	240.10	300	371.90	993
+-----+							
97.10	498	168.00	1886	240.80	311	382.70	383
98.00	4341	169.20	398	241.00	320	389.90	389
99.00	2902	170.10	297	242.00	912	402.00	506
99.90	358	170.80	289	242.90	670	402.80	879
100.90	1238	171.90	459	244.00	9087	403.50	356
+-----+							
103.00	636	172.90	705	245.90	2719	403.80	362
104.00	826	173.90	925	246.80	518	421.00	558
104.90	705	174.90	1809	247.40	173	423.00	3784
107.00	10950	176.00	429	248.90	408	423.90	1045
108.00	1678	176.50	592	252.20	253	439.40	229
+-----+							
110.00	18984	177.00	643	252.80	306	441.00	10979
111.00	2644	178.00	356	254.90	48872	442.00	71056
112.00	793	178.90	2947	255.90	7171	443.00	15089
115.20	181	180.00	1842	257.00	591	444.90	165
115.90	862	180.80	849	257.80	2635		
+-----+							
117.00	10093	181.90	201	259.00	553		
+-----+							

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-2</u>
SDG No.: <u>68089459-2</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 660-136660/1-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD23008.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 15:35</u>
Sample wt/vol: <u>14.92(g)</u>	Date Analyzed: <u>04/23/2013 15:37</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136756</u>	Units: <u>ug/Kg</u>

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	64		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23008.D
 Lab Smp Id: MB 660-136660/1-A
 Inj Date : 23-APR-2013 15:37
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : MB 660-136660/1-A
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
 Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 7 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.920	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS		
		QUANT	SIG			ON-COLUMN	FINAL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)
=====		=====	=====	=====	=====	=====	=====	=====
* 1	Naphthalene-d8	136	6.050	6.051	(1.000)	1783244	40.0000	
* 6	Acenaphthene-d10	164	7.736	7.732	(1.000)	1022871	40.0000	
* 9	Phenanthrene-d10	188	8.993	8.995	(1.000)	1640756	40.0000	
\$ 13	o-Terphenyl	230	9.305	9.306	(1.035)	158671	6.41824	430
* 17	Chrysene-d12	240	11.302	11.304	(1.000)	1577513	40.0000	
* 22	Perylene-d12	264	13.124	13.120	(1.000)	1653399	40.0000	

Data File: 1DD23008.D

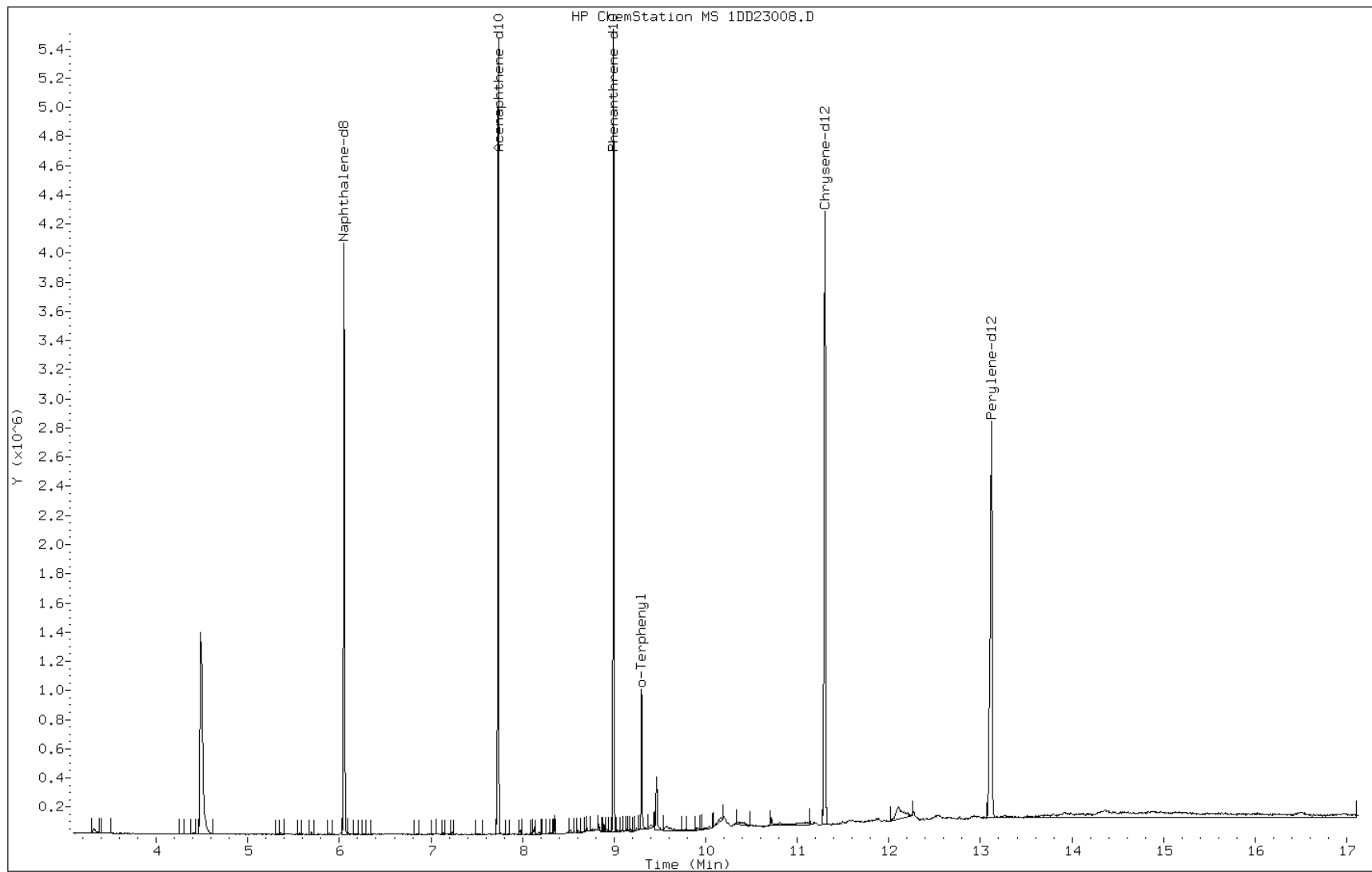
Date: 23-APR-2013 15:37

Client ID:

Instrument: BSMSD.i

Sample Info: MB 660-136660/1-A

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-2</u>
SDG No.: <u>68089459-2</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 660-136731/1-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD24015.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/23/2013 10:36</u>
Sample wt/vol: <u>14.98(g)</u>	Date Analyzed: <u>04/24/2013 16:40</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136792</u>	Units: <u>ug/Kg</u>

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	82		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24015.D
Lab Smp Id: mb 660-136731/1-a
Inj Date : 24-APR-2013 16:40
Operator : SCC
Smp Info : mb 660-136731/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1-a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 11 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.633	3.634	(1.000)		148951	40.0000	
* 6 Acenaphthene-d10	164		4.721	4.722	(1.000)		95079	40.0000	
* 10 Phenanthrene-d10	188		5.668	5.663	(1.000)		165222	40.0000	
\$ 14 o-Terphenyl	230		5.921	5.910	(1.045)		19615	8.17685	545.8512
* 18 Chrysene-d12	240		7.598	7.592	(1.000)		187433	40.0000	
* 23 Perylene-d12	264		8.751	8.733	(1.000)		213613	40.0000	

Data File: 1CD24015.D

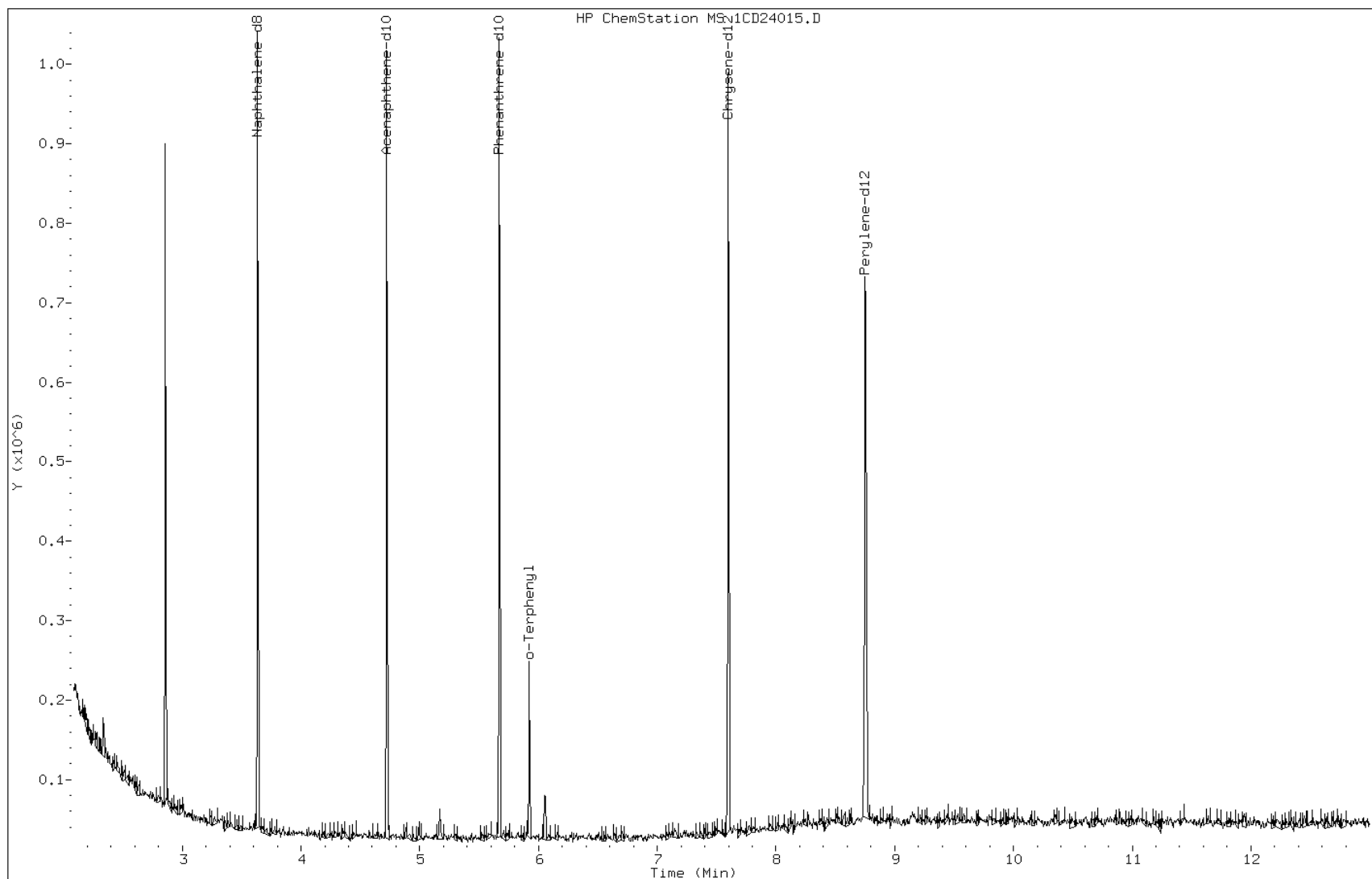
Date: 24-APR-2013 16:40

Client ID:

Instrument: BSMC5973.i

Sample Info: mb 660-136731/1-a

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-2</u>
SDG No.: <u>68089459-2</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 660-136752/1-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD24014.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/23/2013 14:49</u>
Sample wt/vol: <u>15.31(g)</u>	Date Analyzed: <u>04/24/2013 16:55</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136826</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	98	U	98	20
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	6.0
191-24-2	Benzo[g,h,i]perylene	20	U	20	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	20	U	20	4.0
206-44-0	Fluoranthene	20	U	20	3.9
86-73-7	Fluorene	20	U	20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	7.0
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.8	U	7.8	3.8
129-00-0	Pyrene	20	U	20	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	62		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\1DD24014.D
 Lab Smp Id: MB 660-136752/1-A
 Inj Date : 24-APR-2013 16:55
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : MB 660-136752/1-A
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\dFASTPAHi.m
 Meth Date : 24-Apr-2013 13:05 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 14 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	15.310	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS		
		QUANT	SIG				ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)
=====		=====	=====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	6.045	6.049	(1.000)	2776941	40.0000	
*	6 Acenaphthene-d10	164	7.731	7.730	(1.000)	1716814	40.0000	
*	9 Phenanthrene-d10	188	8.989	8.993	(1.000)	2751589	40.0000	
\$	13 o-Terphenyl	230	9.294	9.298	(1.034)	255008	6.15082	400
*	17 Chrysene-d12	240	11.298	11.302	(1.000)	2681161	40.0000	
*	22 Perylene-d12	264	13.119	13.123	(1.000)	2646796	40.0000	
	10 Phenanthrene	178	9.006	9.010	(1.002)	2818	0.03718	2.4(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD24014.D

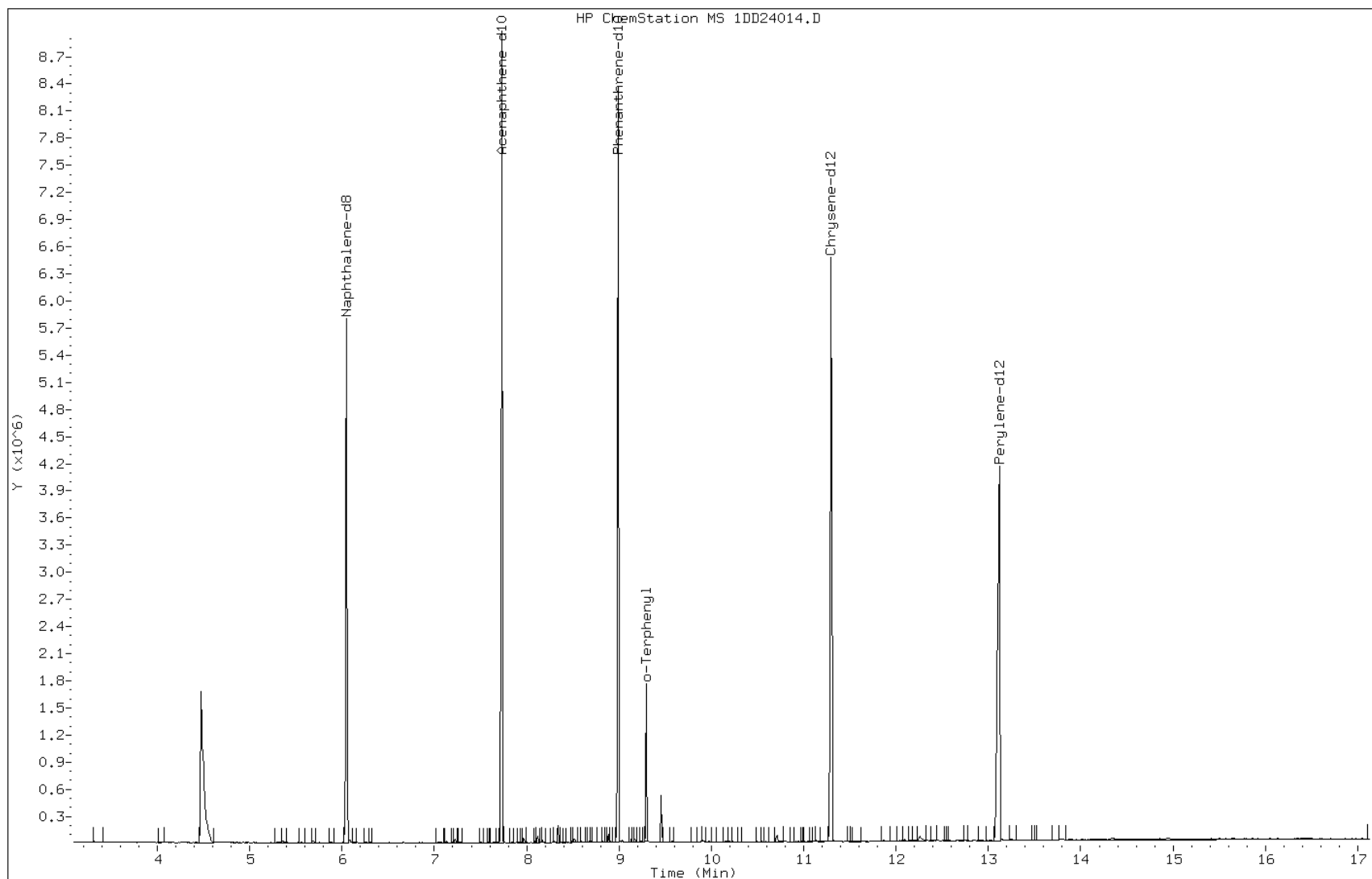
Date: 24-APR-2013 16:55

Client ID:

Instrument: BSMSD.i

Sample Info: MB 660-136752/1-A

Operator: SCC

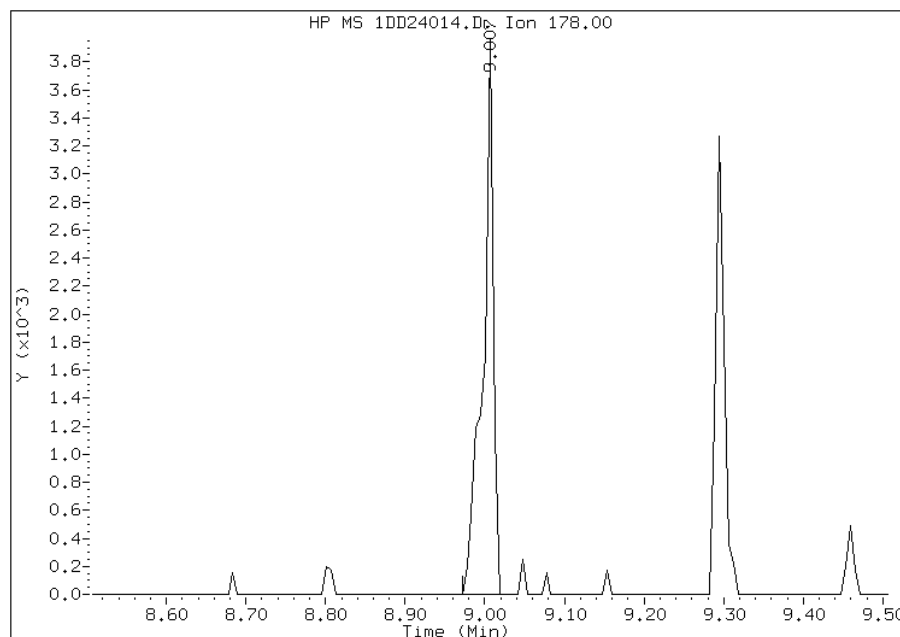


Manual Integration Report

Data File: 1DD24014.D
Inj. Date and Time: 24-APR-2013 16:55
Instrument ID: BSMSD.i
Client ID:
Compound: 10 Phenanthrene
CAS #: 85-01-8
Report Date: 04/25/2013

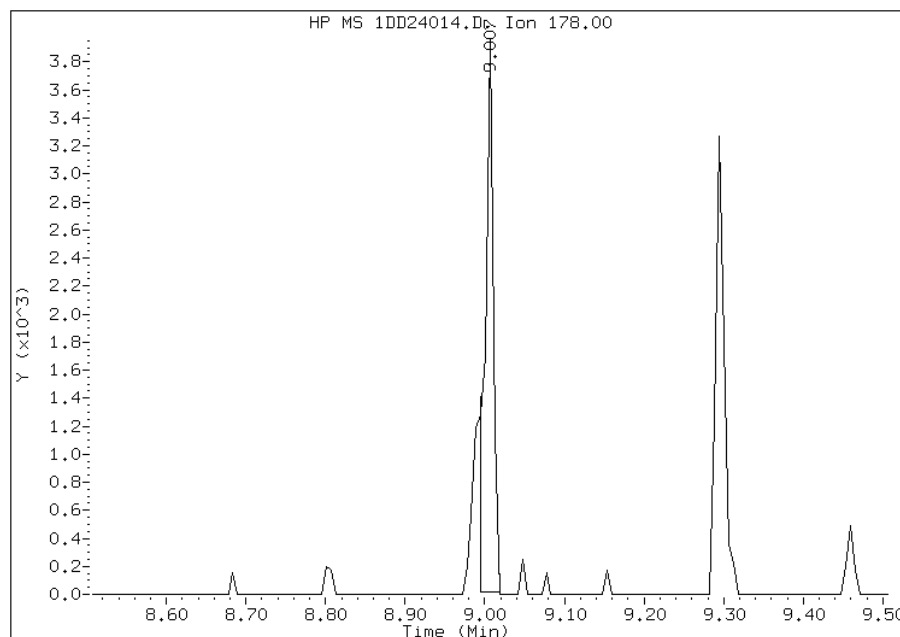
Processing Integration Results

RT: 9.01
Response: 3539
Amount: 0
Conc: 3



Manual Integration Results

RT: 9.01
Response: 2818
Amount: 0
Conc: 2



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:09
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-2</u>
SDG No.: <u>68089459-2</u>	
Client Sample ID: _____	Lab Sample ID: <u>LCS 660-136660/2-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD23009.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 15:35</u>
Sample wt/vol: <u>15.32(g)</u>	Date Analyzed: <u>04/23/2013 15:59</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136756</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	327		98	20
208-96-8	Acenaphthylene	342		39	4.9
120-12-7	Anthracene	420		8.2	4.1
56-55-3	Benzo[a]anthracene	459		7.8	3.8
50-32-8	Benzo[a]pyrene	419		10	5.1
205-99-2	Benzo[b]fluoranthene	469		12	6.0
191-24-2	Benzo[g,h,i]perylene	529		20	4.3
207-08-9	Benzo[k]fluoranthene	444		7.8	3.5
218-01-9	Chrysene	445		8.8	4.4
53-70-3	Dibenz(a,h)anthracene	528		20	4.0
206-44-0	Fluoranthene	453		20	3.9
86-73-7	Fluorene	382		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	514		20	7.0
90-12-0	1-Methylnaphthalene	279		39	4.3
91-57-6	2-Methylnaphthalene	272		39	7.0
91-20-3	Naphthalene	245		39	4.3
85-01-8	Phenanthrene	420		7.8	3.8
129-00-0	Pyrene	445		20	3.6

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23009.D
Lab Smp Id: LCS 660-136660/2-A
Inj Date : 23-APR-2013 15:59
Operator : SCC Inst ID: BSMSD.i
Smp Info : LCS 660-136660/2-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.320	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

						CONCENTRATIONS			
		QUANT	SIG					ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)	
=====		=====	=====	=====	=====	=====	=====	=====	
*	1 Naphthalene-d8	136	6.052	6.051	(1.000)	1811705	40.0000		
*	6 Acenaphthene-d10	164	7.732	7.732	(1.000)	1032077	40.0000		
*	9 Phenanthrene-d10	188	8.995	8.995	(1.000)	1634283	40.0000		
\$	13 o-Terphenyl	230	9.301	9.306	(1.034)	157918	6.41308	420	
*	17 Chrysene-d12	240	11.304	11.304	(1.000)	1548433	40.0000		
*	22 Perylene-d12	264	13.120	13.120	(1.000)	1605678	40.0000		
	2 Naphthalene	128	6.069	6.075	(1.003)	169218	3.75782	240	
	3 2-Methylnaphthalene	142	6.780	6.780	(1.120)	121220	4.17010	270	
	4 1-Methylnaphthalene	142	6.874	6.874	(1.136)	117218	4.27007	280	
	5 Acenaphthylene	152	7.603	7.608	(0.983)	229060	5.24381	340	
	7 Acenaphthene	154	7.761	7.761	(1.004)	135091	5.01016	330	
	8 Fluorene	166	8.202	8.208	(1.061)	187058	5.85835	380	
	10 Phenanthrene	178	9.013	9.013	(1.002)	289597	6.43323	420	
	11 Anthracene	178	9.054	9.054	(1.007)	287713	6.43949	420	

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
12 Carbazole	167	9.195	9.195	(1.022)	257466	6.53299	430
14 Fluoranthene	202	9.994	10.000	(1.111)	321768	6.94612	450
15 Pyrene	202	10.182	10.188	(0.901)	316950	6.81623	440
16 Benzo(a)anthracene	228	11.287	11.287	(0.998)	315103	7.03853	460
18 Chrysene	228	11.328	11.328	(1.002)	286226	6.81868	440
19 Benzo(b)fluoranthene	252	12.579	12.585	(0.959)	288487	7.19236	470
20 Benzo(k)fluoranthene	252	12.615	12.620	(0.961)	287697	6.80839	440
21 Benzo(a)pyrene	252	13.026	13.032	(0.993)	258926	6.42474	420
23 Indeno(1,2,3-cd)pyrene	276	14.700	14.706	(1.120)	338243	7.87101	510(M)
24 Dibenzo(a,h)anthracene	278	14.724	14.735	(1.122)	327618	8.09588	530
25 Benzo(g,h,i)perylene	276	15.129	15.141	(1.153)	335280	8.10300	530

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD23009.D

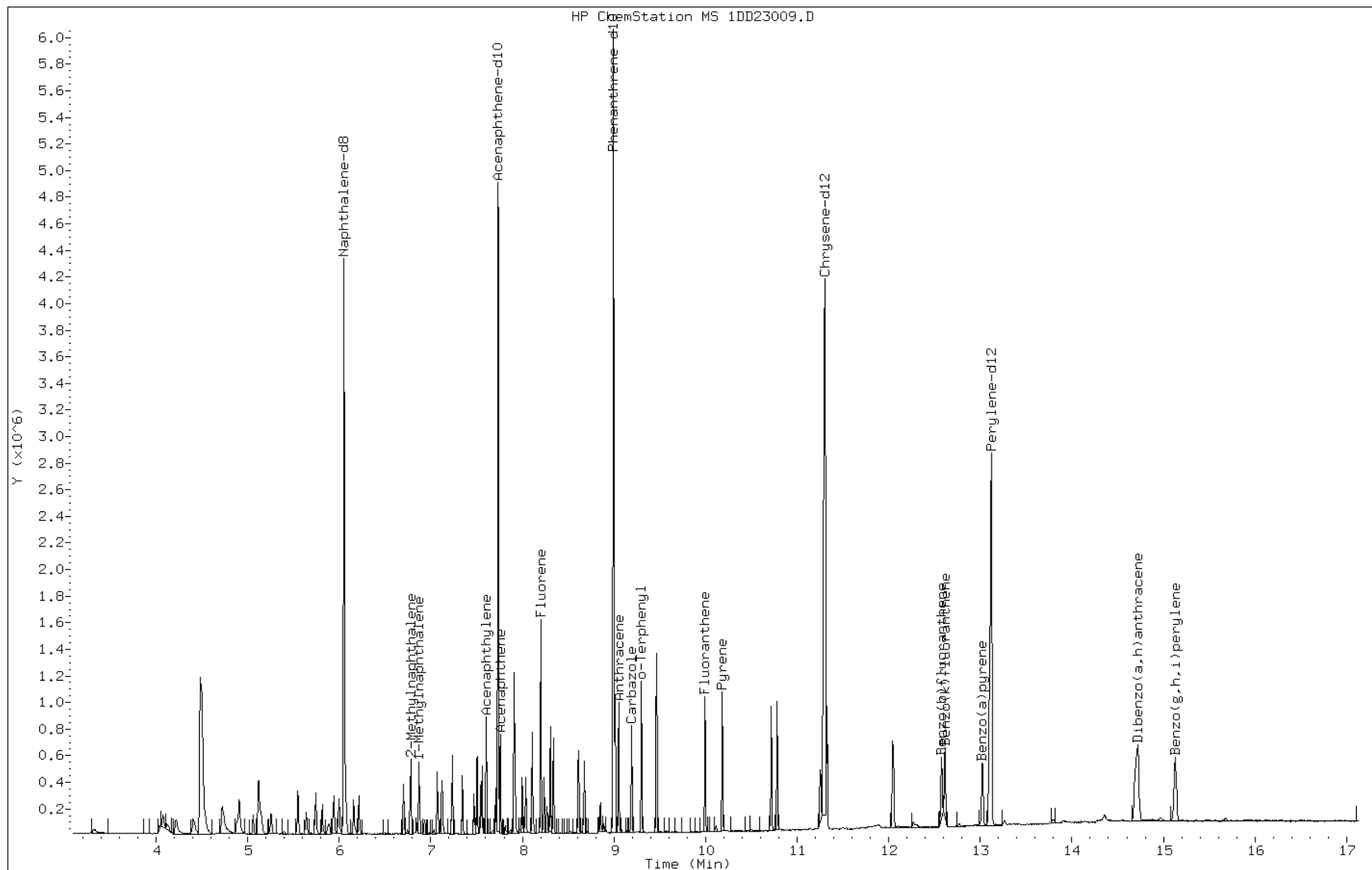
Date: 23-APR-2013 15:59

Client ID:

Instrument: BSMSD.i

Sample Info: LCS 660-136660/2-A

Operator: SCC

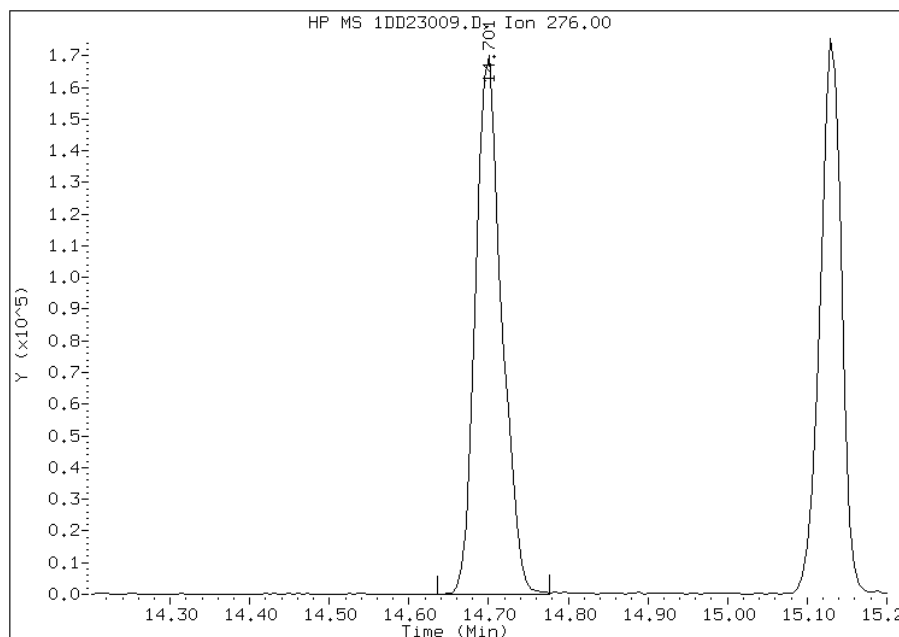


Manual Integration Report

Data File: 1DD23009.D
Inj. Date and Time: 23-APR-2013 15:59
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

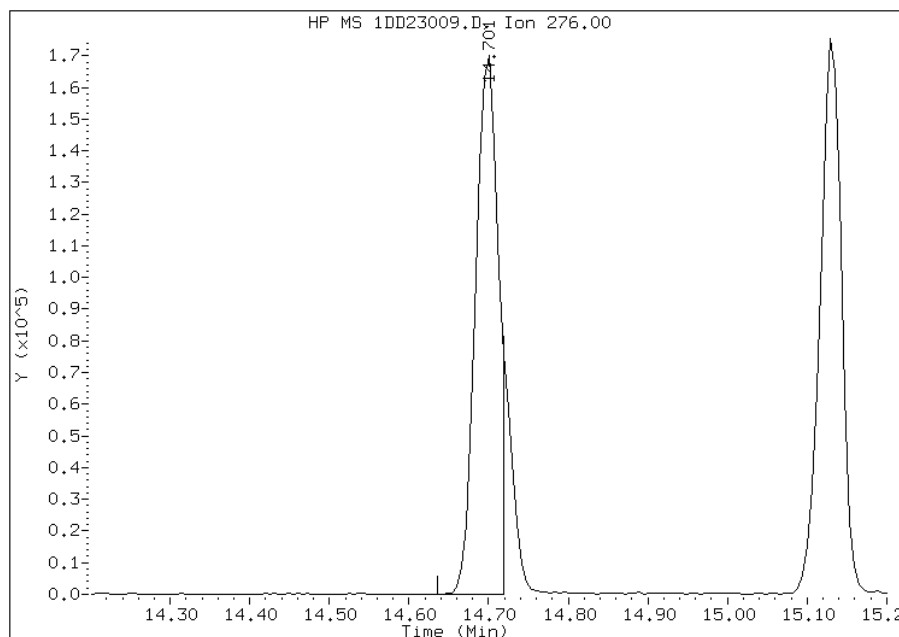
Processing Integration Results

RT: 14.70
Response: 387969
Amount: 9
Conc: 589



Manual Integration Results

RT: 14.70
Response: 338243
Amount: 8
Conc: 514



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 12:58
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-2</u>
SDG No.: <u>68089459-2</u>	
Client Sample ID: _____	Lab Sample ID: <u>LCS 660-136731/2-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD24016.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/23/2013 10:36</u>
Sample wt/vol: <u>14.96(g)</u>	Date Analyzed: <u>04/24/2013 16:58</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136792</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	523		100	20
208-96-8	Acenaphthylene	506		40	5.0
120-12-7	Anthracene	577		8.4	4.2
56-55-3	Benzo[a]anthracene	787		8.0	3.9
50-32-8	Benzo[a]pyrene	499		10	5.2
205-99-2	Benzo[b]fluoranthene	562		12	6.1
191-24-2	Benzo[g,h,i]perylene	542		20	4.4
207-08-9	Benzo[k]fluoranthene	662		8.0	3.6
218-01-9	Chrysene	567		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	631		20	4.1
206-44-0	Fluoranthene	617		20	4.0
86-73-7	Fluorene	597		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	574		20	7.1
90-12-0	1-Methylnaphthalene	546		40	4.4
91-57-6	2-Methylnaphthalene	521		40	7.1
91-20-3	Naphthalene	612		40	4.4
85-01-8	Phenanthrene	653		8.0	3.9
129-00-0	Pyrene	571		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	83		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24016.D
Lab Smp Id: lcs 660-136731/2-a
Inj Date : 24-APR-2013 16:58
Operator : SCC
Smp Info : lcs 660-136731/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE
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	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.633	3.634	(1.000)		127322	40.0000	
* 6 Acenaphthene-d10	164		4.721	4.722	(1.000)		84433	40.0000	
* 10 Phenanthrene-d10	188		5.663	5.663	(1.000)		159954	40.0000	
\$ 14 o-Terphenyl	230		5.910	5.910	(1.044)		19208	8.27090	552.8675
* 18 Chrysene-d12	240		7.586	7.592	(1.000)		198591	40.0000	
* 23 Perylene-d12	264		8.739	8.733	(1.000)		222308	40.0000	
2 Naphthalene	128		3.645	3.646	(1.003)		32048	9.14831	611.5182
3 2-Methylnaphthalene	142		4.074	4.075	(1.121)		18011	7.79944	521.3527
4 1-Methylnaphthalene	142		4.133	4.134	(1.138)		18389	8.16905	546.0592
5 Acenaphthylene	152		4.633	4.634	(0.981)		32835	7.57549	506.3829
7 Acenaphthene	154		4.739	4.740	(1.004)		19052	7.82545	523.0913
9 Fluorene	166		5.057	5.057	(1.071)		25899	8.92666	596.7019
11 Phenanthrene	178		5.674	5.675	(1.002)		42783	9.76872	652.9890
12 Anthracene	178		5.710	5.710	(1.008)		40678	8.62526	576.5546

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
13 Carbazole	167	5.821	5.822	(1.028)	41408	9.40642	628.7713
15 Fluoranthene	202	6.504	6.504	(1.149)	48977	9.23748	617.4788
16 Pyrene	202	6.674	6.675	(0.880)	50079	8.53851	570.7558
17 Benzo(a)anthracene	228	7.580	7.581	(0.999)	61457	11.7663	786.5201
19 Chrysene	228	7.610	7.610	(1.003)	48133	8.48775	567.3631
20 Benzo(b)fluoranthene	252	8.409	8.410	(0.962)	51683	8.40599	561.8976
21 Benzo(k)fluoranthene	252	8.433	8.428	(0.965)	59234	9.90145	661.8613
22 Benzo(a)pyrene	252	8.686	8.686	(0.994)	44184	7.46310	498.8706
24 Indeno(1,2,3-cd)pyrene	276	9.833	9.833	(1.125)	49263	8.58858	574.1030(M)
25 Dibenzo(a,h)anthracene	278	9.851	9.851	(1.127)	50921	9.44616	631.4275
26 Benzo(g,h,i)perylene	276	10.162	10.163	(1.163)	45539	8.11283	542.3014

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD24016.D

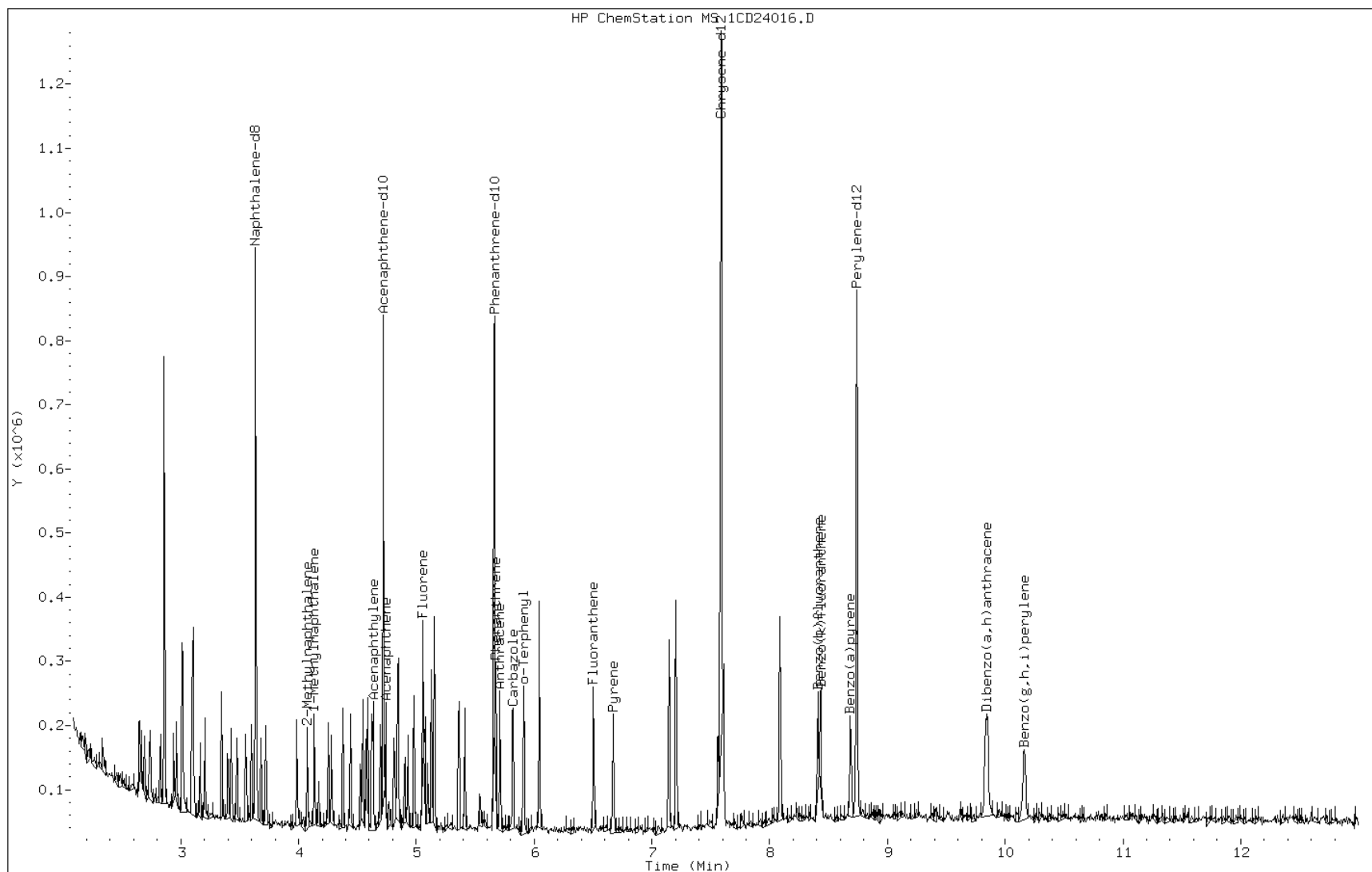
Date: 24-APR-2013 16:58

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-136731/2-a

Operator: SCC

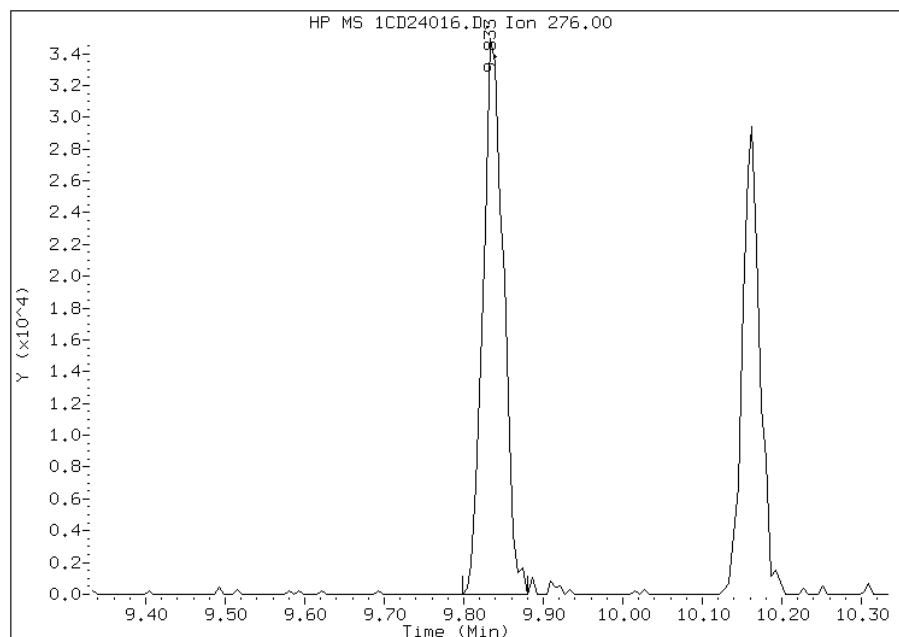


Manual Integration Report

Data File: 1CD24016.D
Inj. Date and Time: 24-APR-2013 16:58
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

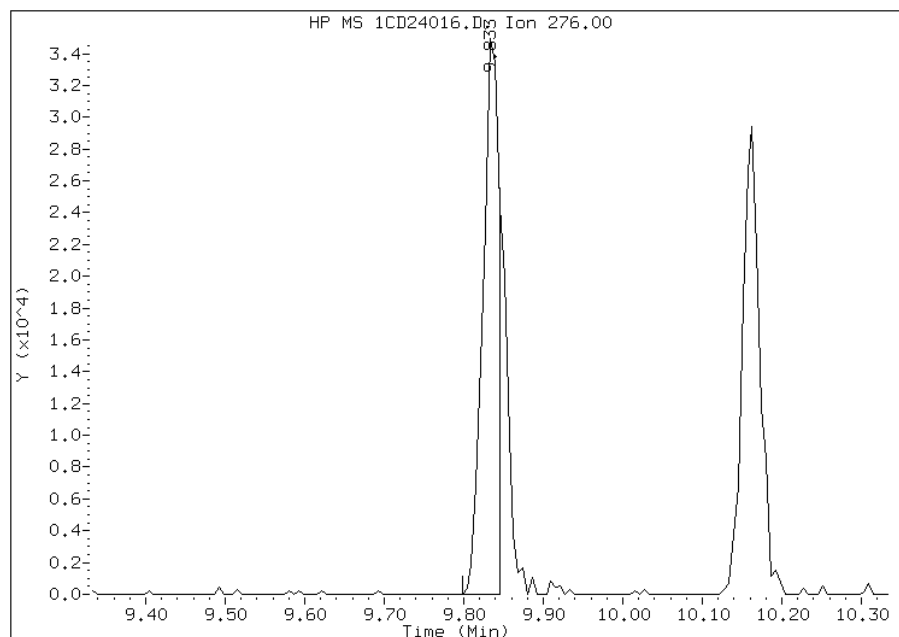
Processing Integration Results

RT: 9.83
Response: 62231
Amount: 11
Conc: 714



Manual Integration Results

RT: 9.83
Response: 49263
Amount: 9
Conc: 574



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:21
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-2</u>
SDG No.: <u>68089459-2</u>	
Client Sample ID: _____	Lab Sample ID: <u>LCS 660-136752/2-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD24015.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/23/2013 14:49</u>
Sample wt/vol: <u>15.23(g)</u>	Date Analyzed: <u>04/24/2013 17:18</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136826</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	486		98	20
208-96-8	Acenaphthylene	507		39	4.9
120-12-7	Anthracene	496		8.3	4.1
56-55-3	Benzo[a]anthracene	547		7.9	3.8
50-32-8	Benzo[a]pyrene	494		10	5.1
205-99-2	Benzo[b]fluoranthene	577		12	6.0
191-24-2	Benzo[g,h,i]perylene	548		20	4.3
207-08-9	Benzo[k]fluoranthene	542		7.9	3.5
218-01-9	Chrysene	513		8.9	4.4
53-70-3	Dibenz(a,h)anthracene	574		20	4.0
206-44-0	Fluoranthene	534		20	3.9
86-73-7	Fluorene	528		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	535		20	7.0
90-12-0	1-Methylnaphthalene	503		39	4.3
91-57-6	2-Methylnaphthalene	498		39	7.0
91-20-3	Naphthalene	478		39	4.3
85-01-8	Phenanthrene	485		7.9	3.8
129-00-0	Pyrene	518		20	3.6

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\1DD24015.D
 Lab Smp Id: LCS 660-136752/2-A
 Inj Date : 24-APR-2013 17:18
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : LCS 660-136752/2-A
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\dFASTPAHi.m
 Meth Date : 24-Apr-2013 13:05 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 15 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	15.230	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

						CONCENTRATIONS		
		QUANT	SIG				ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)
=====		=====	=====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	6.048	6.049	(1.000)	2121388	40.0000	
*	6 Acenaphthene-d10	164	7.729	7.730	(1.000)	1279631	40.0000	
*	9 Phenanthrene-d10	188	8.992	8.993	(1.000)	2148959	40.0000	
\$	13 o-Terphenyl	230	9.298	9.298	(1.034)	243209	7.51128	490
*	17 Chrysene-d12	240	11.295	11.302	(1.000)	2097144	40.0000	
*	22 Perylene-d12	264	13.111	13.123	(1.000)	2063943	40.0000	
	2 Naphthalene	128	6.066	6.073	(1.003)	383783	7.27852	480
	3 2-Methylnaphthalene	142	6.777	6.778	(1.120)	257995	7.57968	500
	4 1-Methylnaphthalene	142	6.865	6.872	(1.135)	246456	7.66738	500
	5 Acenaphthylene	152	7.600	7.600	(0.983)	417875	7.71564	510
	7 Acenaphthene	154	7.752	7.759	(1.003)	247219	7.39493	480
	8 Fluorene	166	8.199	8.200	(1.061)	318423	8.04324	530
	10 Phenanthrene	178	9.004	9.010	(1.001)	436880	7.38068	480
	11 Anthracene	178	9.045	9.052	(1.006)	443462	7.54827	500

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
12 Carbazole	167	9.186	9.193	(1.022)	329035	6.34941	420
14 Fluoranthene	202	9.991	9.997	(1.111)	495241	8.13046	530
15 Pyrene	202	10.179	10.185	(0.901)	496510	7.88398	520
16 Benzo(a)anthracene	228	11.278	11.284	(0.998)	505525	8.33751	550
18 Chrysene	228	11.319	11.331	(1.002)	444027	7.81024	510
19 Benzo(b)fluoranthene	252	12.570	12.583	(0.959)	452954	8.78537	580
20 Benzo(k)fluoranthene	252	12.605	12.618	(0.961)	448347	8.25437	540
21 Benzo(a)pyrene	252	13.011	13.029	(0.992)	390036	7.52913	490
23 Indeno(1,2,3-cd)pyrene	276	14.685	14.710	(1.120)	449770	8.14241	530(M)
24 Dibenzo(a,h)anthracene	278	14.709	14.733	(1.122)	454600	8.73949	570
25 Benzo(g,h,i)perylene	276	15.120	15.150	(1.153)	443843	8.34503	550

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD24015.D

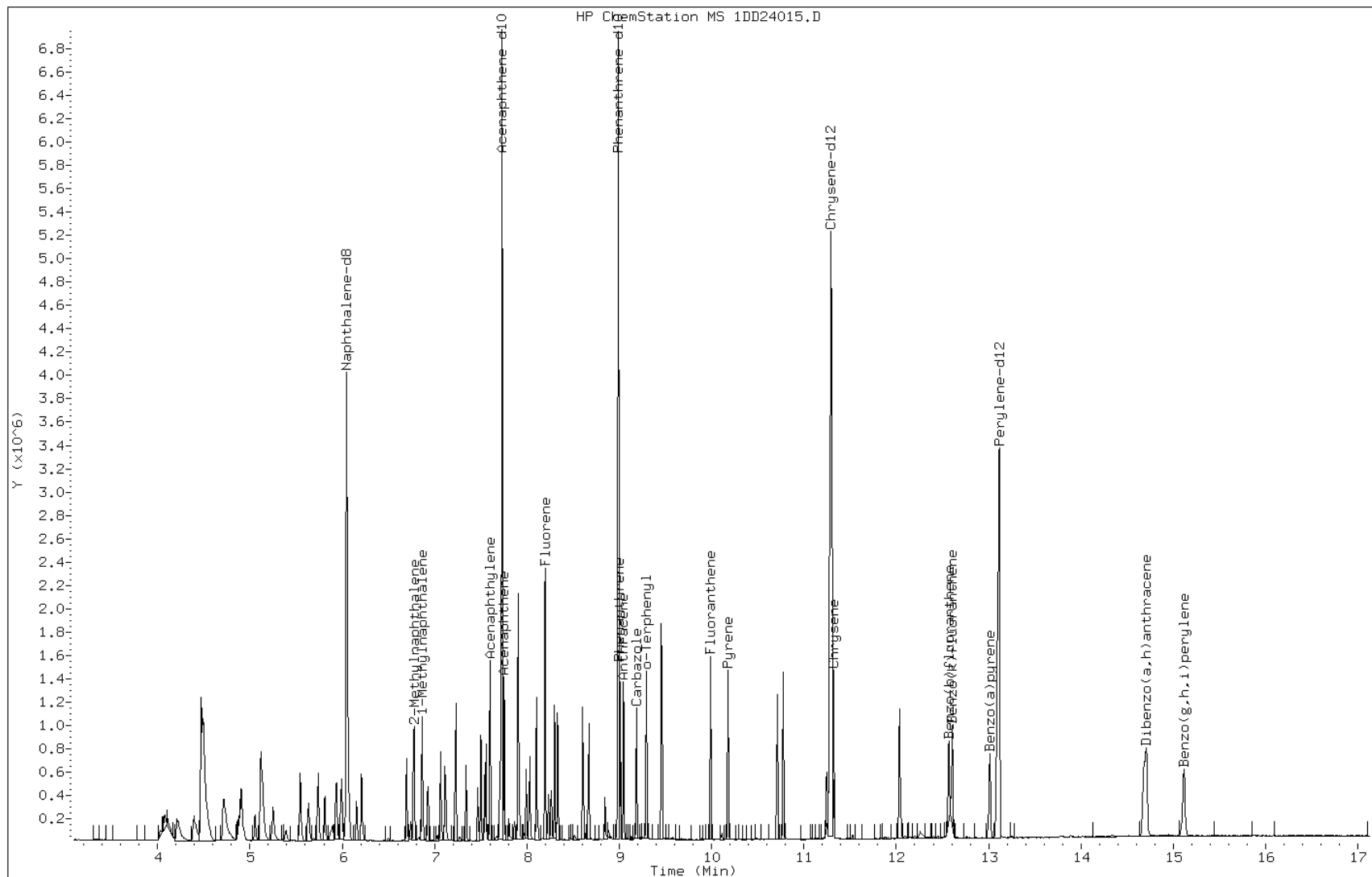
Date: 24-APR-2013 17:18

Client ID:

Instrument: BSMSD.i

Sample Info: LCS 660-136752/2-A

Operator: SCC

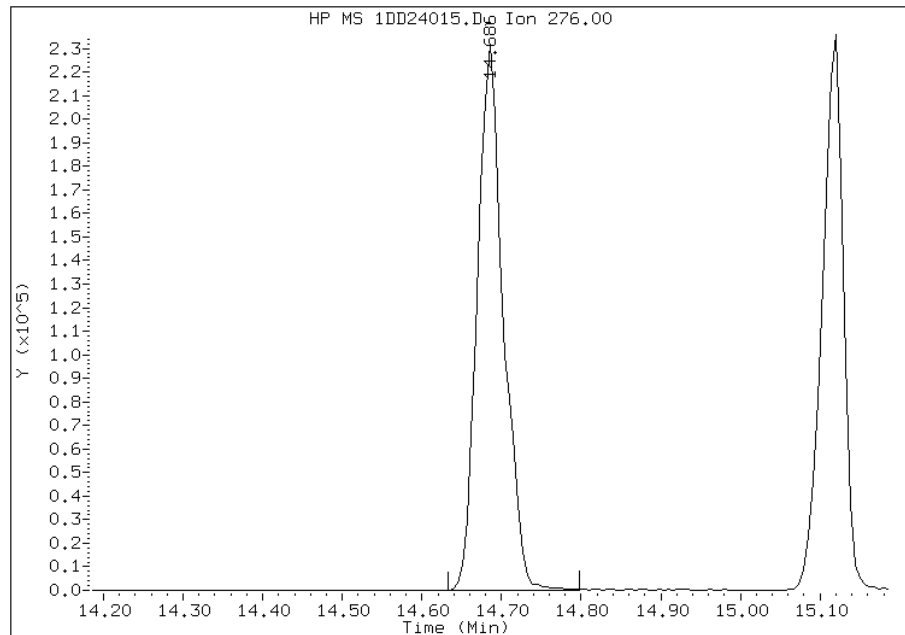


Manual Integration Report

Data File: 1DD24015.D
Inj. Date and Time: 24-APR-2013 17:18
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

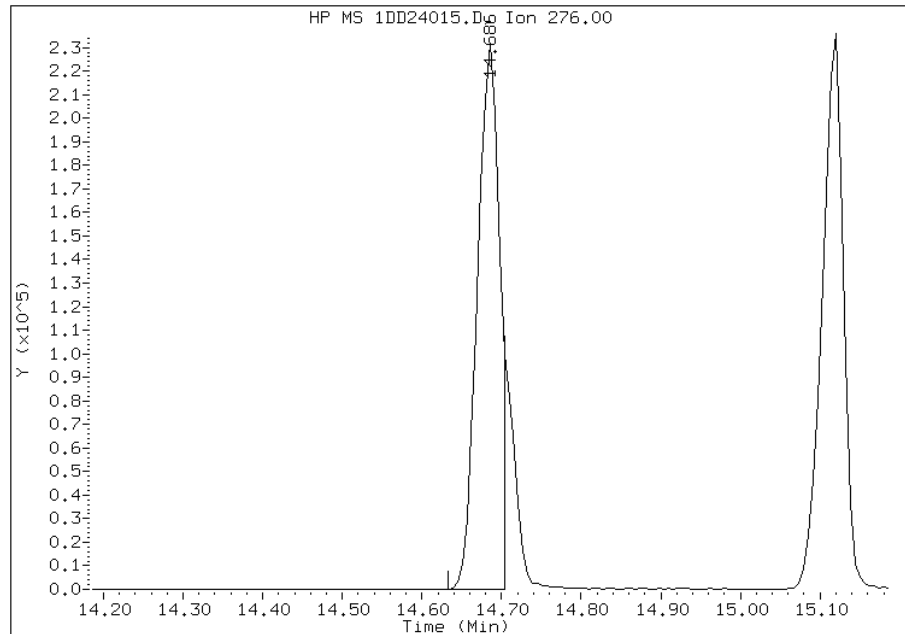
Processing Integration Results

RT: 14.69
Response: 526924
Amount: 10
Conc: 626



Manual Integration Results

RT: 14.69
Response: 449770
Amount: 8
Conc: 535



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:10
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-2</u>
SDG No.: <u>68089459-2</u>	
Client Sample ID: _____	Lab Sample ID: <u>680-89328-A-25-B MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD23011.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 15:35</u>
Sample wt/vol: <u>15.00(g)</u>	Date Analyzed: <u>04/23/2013 16:44</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>4</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>22.8</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136756</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	410	J	520	100
208-96-8	Acenaphthylene	460		210	26
120-12-7	Anthracene	459		44	22
56-55-3	Benzo[a]anthracene	685		41	20
50-32-8	Benzo[a]pyrene	586		54	27
205-99-2	Benzo[b]fluoranthene	715		63	32
191-24-2	Benzo[g,h,i]perylene	703		100	23
207-08-9	Benzo[k]fluoranthene	540		41	19
218-01-9	Chrysene	710		47	23
53-70-3	Dibenz(a,h)anthracene	573		100	21
206-44-0	Fluoranthene	734		100	21
86-73-7	Fluorene	454		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	638		100	37
90-12-0	1-Methylnaphthalene	543		210	23
91-57-6	2-Methylnaphthalene	568		210	37
91-20-3	Naphthalene	454		210	23
85-01-8	Phenanthrene	700		41	20
129-00-0	Pyrene	695		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	49		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23011.D
 Lab Smp Id: 680-89328-A-25-B MS
 Inj Date : 23-APR-2013 16:44
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89328-A-25-B MS
 Misc Info : 4.0
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
 Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 10 QC Sample: MS
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.055	6.051	(1.000)		1708276	40.0000	
* 6 Acenaphthene-d10	164		7.735	7.732	(1.000)		976004	40.0000	
* 9 Phenanthrene-d10	188		8.993	8.995	(1.000)		1600101	40.0000	
\$ 13 o-Terphenyl	230		9.304	9.306	(1.035)		29797	1.23591	330
* 17 Chrysene-d12	240		11.302	11.304	(1.000)		1513680	40.0000	
* 22 Perylene-d12	264		13.123	13.120	(1.000)		1772427	40.0000	
2 Naphthalene	128		6.073	6.075	(1.003)		55801	1.31420	350
3 2-Methylnaphthalene	142		6.778	6.780	(1.119)		45033	1.64298	440
4 1-Methylnaphthalene	142		6.872	6.874	(1.135)		40660	1.57086	420
5 Acenaphthylene	152		7.606	7.608	(0.983)		55044	1.33250	360
7 Acenaphthene	154		7.759	7.761	(1.003)		30240	1.18595	320
8 Fluorene	166		8.205	8.208	(1.061)		39640	1.31278	350
10 Phenanthrene	178		9.010	9.013	(1.002)		89309	2.02633	540
11 Anthracene	178		9.051	9.054	(1.007)		58153	1.32936	350

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
12 Carbazole	167	9.192	9.195	(1.022)	52249	1.35410	360
14 Fluoranthene	202	9.997	10.000	(1.112)	96403	2.12554	570
15 Pyrene	202	10.180	10.188	(0.901)	91462	2.01211	540
16 Benzo(a)anthracene	228	11.284	11.287	(0.998)	86822	1.98389	530
18 Chrysene	228	11.325	11.328	(1.002)	84316	2.05475	550
19 Benzo(b)fluoranthene	252	12.577	12.585	(0.958)	91647	2.06992	550
20 Benzo(k)fluoranthene	252	12.612	12.620	(0.961)	72892	1.56271	420
21 Benzo(a)pyrene	252	13.023	13.032	(0.992)	75426	1.69547	450
23 Indeno(1,2,3-cd)pyrene	276	14.692	14.706	(1.120)	87580	1.84628	490(M)
24 Dibenzo(a,h)anthracene	278	14.721	14.735	(1.122)	74029	1.65725	440
25 Benzo(g,h,i)perylene	276	15.133	15.141	(1.153)	92895	2.03386	540

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD23011.D

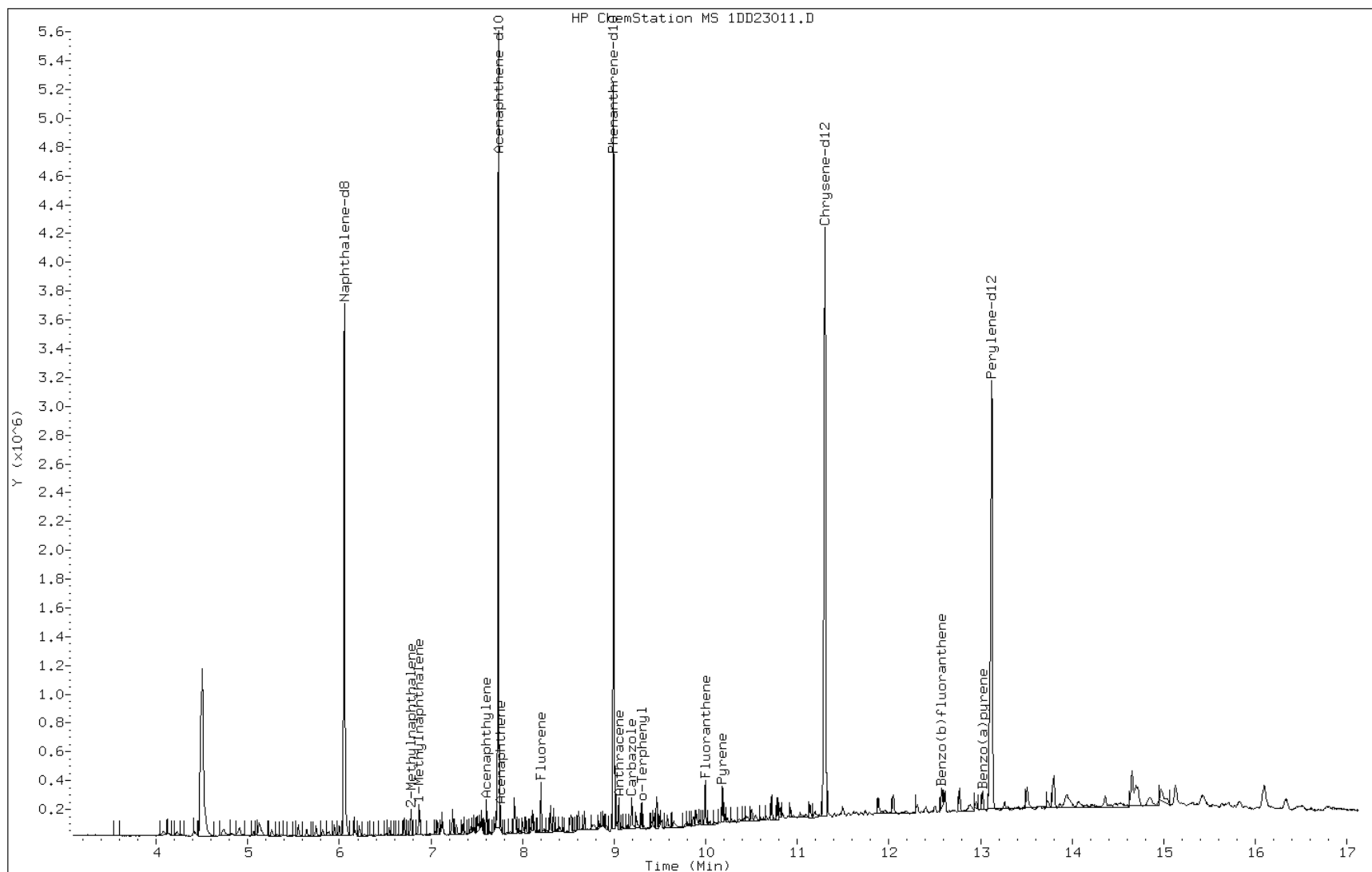
Date: 23-APR-2013 16:44

Client ID:

Instrument: BSMSD.i

Sample Info: 680-89328-A-25-B MS

Operator: SCC

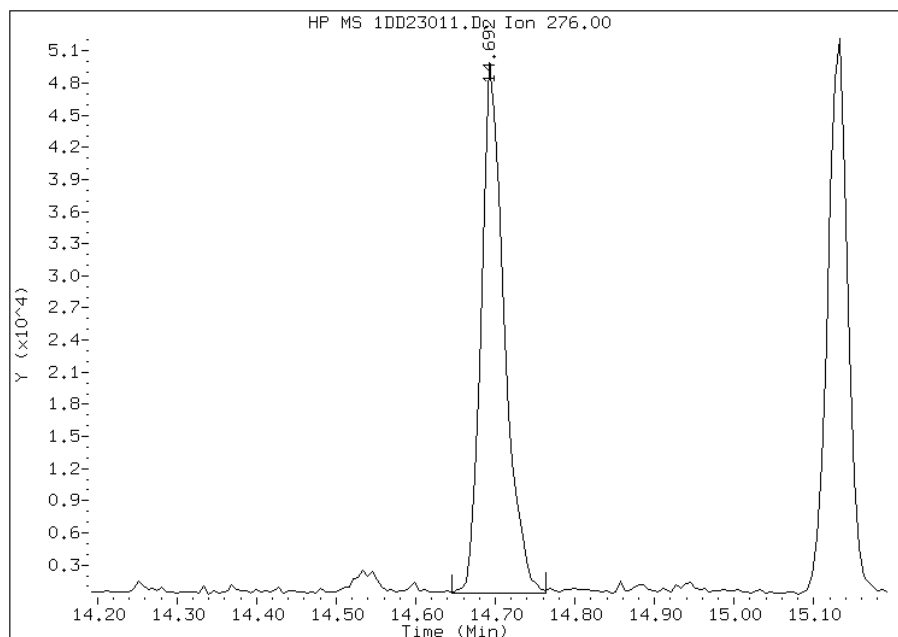


Manual Integration Report

Data File: 1DD23011.D
Inj. Date and Time: 23-APR-2013 16:44
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

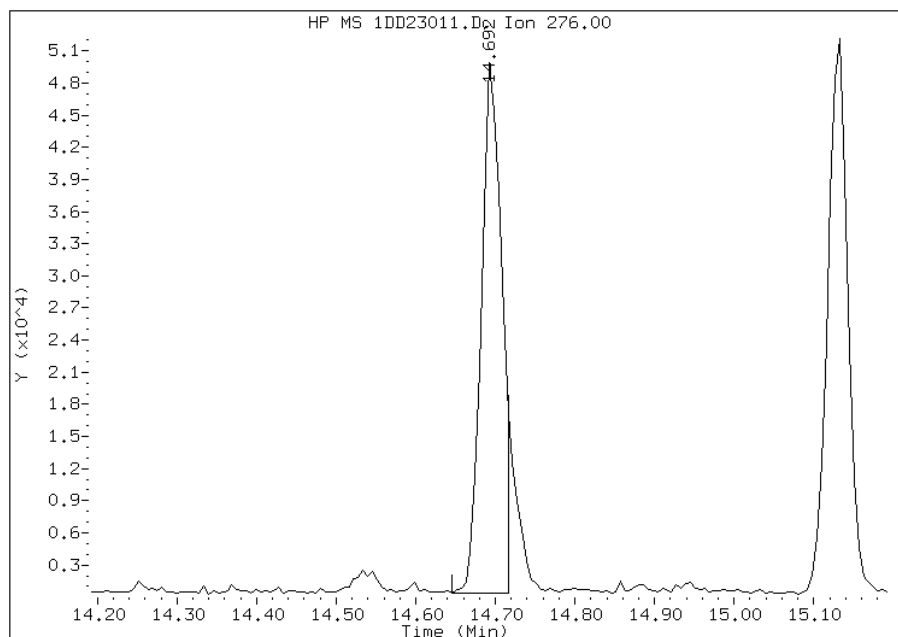
Processing Integration Results

RT: 14.69
Response: 99082
Amount: 2
Conc: 557



Manual Integration Results

RT: 14.69
Response: 87580
Amount: 2
Conc: 492



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 12:59
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-2</u>
SDG No.: <u>68089459-2</u>	
Client Sample ID: _____	Lab Sample ID: <u>680-89421-A-1-B MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD24018.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/23/2013 10:36</u>
Sample wt/vol: <u>14.96(g)</u>	Date Analyzed: <u>04/24/2013 17:34</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>4</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>23.0</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136792</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	648		520	100
208-96-8	Acenaphthylene	637		210	26
120-12-7	Anthracene	637		44	22
56-55-3	Benzo[a]anthracene	1260		42	20
50-32-8	Benzo[a]pyrene	940		54	27
205-99-2	Benzo[b]fluoranthene	1430		64	32
191-24-2	Benzo[g,h,i]perylene	953		100	23
207-08-9	Benzo[k]fluoranthene	972		42	19
218-01-9	Chrysene	1430		47	23
53-70-3	Dibenz(a,h)anthracene	778		100	21
206-44-0	Fluoranthene	1430		100	21
86-73-7	Fluorene	588		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	820		100	37
90-12-0	1-Methylnaphthalene	1000		210	23
91-57-6	2-Methylnaphthalene	1270		210	37
91-20-3	Naphthalene	1010		210	23
85-01-8	Phenanthrene	1490		42	20
129-00-0	Pyrene	1170		100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24018.D
Lab Smp Id: 680-89421-a-1-b ms
Inj Date : 24-APR-2013 17:34
Operator : SCC
Smp Info : 680-89421-a-1-b ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins
Cal Date : 24-APR-2013 15:47
Als bottle: 14
Dil Factor: 4.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Inst ID: BSMC5973.i

Quant Type: ISTD

Cal File: 1CD24013.D

QC Sample: MS

Compound Sublist: pah.sub

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{V_i} * \frac{V_t}{W_s} * \frac{100}{(100 - M)} * A * B * C * D * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8		136	3.633	3.634 (1.000)		132812	40.0000	
* 6 Acenaphthene-d10		164	4.721	4.722 (1.000)		88305	40.0000	
* 10 Phenanthrene-d10		188	5.663	5.663 (1.000)		182302	40.0000	
\$ 14 o-Terphenyl		230	5.910	5.910 (1.044)		4952	1.87092	500.2456
* 18 Chrysene-d12		240	7.586	7.592 (1.000)		228957	40.0000	
* 23 Perylene-d12		264	8.739	8.733 (1.000)		224834	40.0000	
2 Naphthalene		128	3.645	3.646 (1.003)		10671	2.90905	777.8220
3 2-Methylnaphthalene		142	4.074	4.075 (1.121)		8235	3.66883	980.9696(R)
4 1-Methylnaphthalene		142	4.133	4.134 (1.138)		6823	2.88239	770.6925
5 Acenaphthylene		152	4.633	4.634 (0.981)		6925	1.83437	490.4721
7 Acenaphthene		154	4.739	4.740 (1.004)		4677	1.86622	498.9888
9 Fluorene		166	5.057	5.057 (1.071)		5149	1.69495	453.1938
11 Phenanthrene		178	5.674	5.675 (1.002)		21482	4.30373	1150.7288(R)
12 Anthracene		178	5.710	5.710 (1.008)		9257	1.83481	490.5912

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
13 Carbazole	167	5.821	5.822	(1.028)	9785	1.95031	521.4743
15 Fluoranthene	202	6.504	6.504	(1.149)	24937	4.11251	1099.6002(R)
16 Pyrene	202	6.668	6.675	(0.879)	22701	3.35720	897.6464(R)
17 Benzo(a)anthracene	228	7.580	7.581	(0.999)	21750	3.62776	969.9891(R)
19 Chrysene	228	7.609	7.610	(1.003)	26963	4.12405	1102.6864(R)
20 Benzo(b)fluoranthene	252	8.409	8.410	(0.962)	25530	4.10568	1097.7752(R)
21 Benzo(k)fluoranthene	252	8.427	8.428	(0.964)	16937	2.79935	748.4892
22 Benzo(a)pyrene	252	8.686	8.686	(0.994)	15336	2.70701	723.8006
24 Indeno(1,2,3-cd)pyrene	276	9.833	9.833	(1.125)	10891	2.36051	631.1531(M)
25 Dibenzo(a,h)anthracene	278	9.845	9.851	(1.127)	12214	2.24032	599.0149
26 Benzo(g,h,i)perylene	276	10.150	10.163	(1.162)	15575	2.74353	733.5646

QC Flag Legend

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

Data File: 1CD24018.D

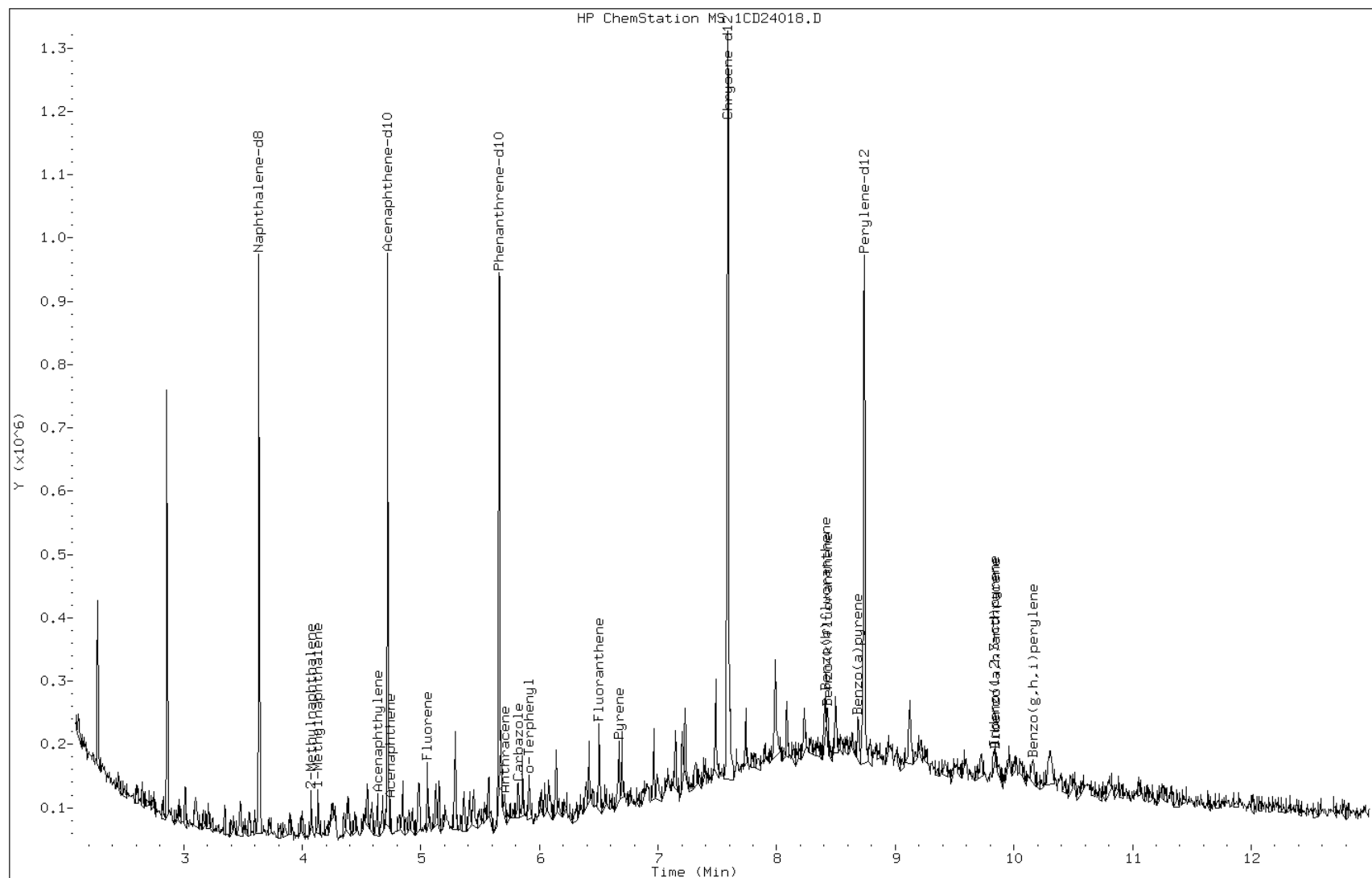
Date: 24-APR-2013 17:34

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-89421-a-1-b ms

Operator: SCC

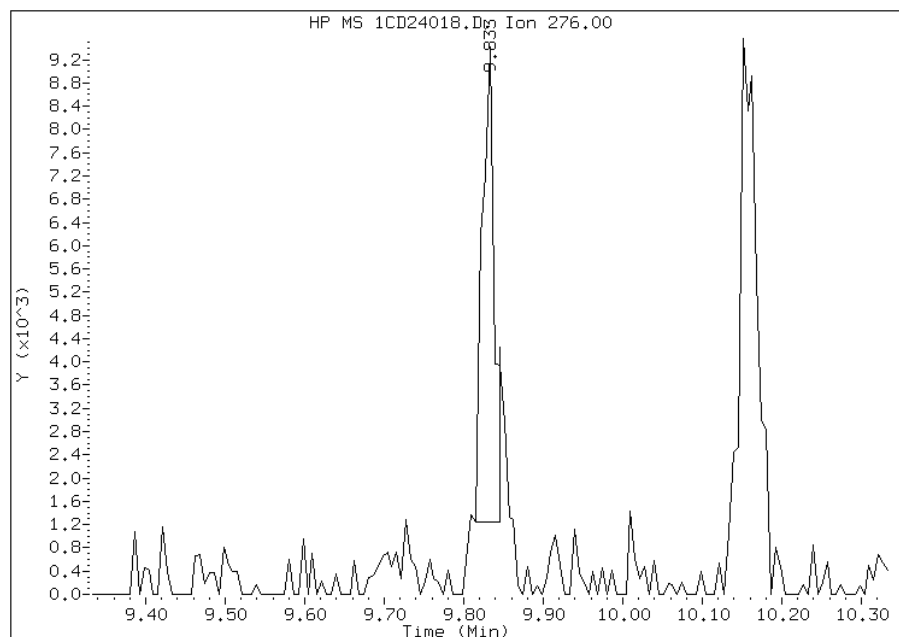


Manual Integration Report

Data File: 1CD24018.D
Inj. Date and Time: 24-APR-2013 17:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

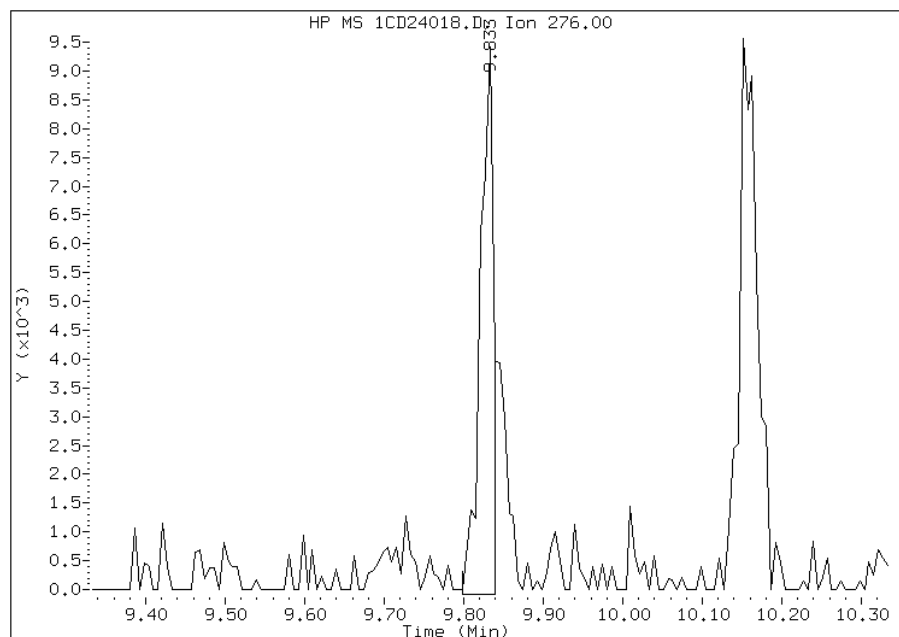
Processing Integration Results

RT: 9.83
Response: 8650
Amount: 2
Conc: 535



Manual Integration Results

RT: 9.83
Response: 10891
Amount: 2
Conc: 631



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:33
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-2</u>
SDG No.: <u>68089459-2</u>	
Client Sample ID: <u>CV1219B-CS MS</u>	Lab Sample ID: <u>680-89459-22 MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD24020.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 14:00</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/23/2013 14:49</u>
Sample wt/vol: <u>15.37(g)</u>	Date Analyzed: <u>04/24/2013 19:10</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>23.7</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136826</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	531		130	26
208-96-8	Acenaphthylene	558		51	6.4
120-12-7	Anthracene	578		11	5.4
56-55-3	Benzo[a]anthracene	706		10	5.0
50-32-8	Benzo[a]pyrene	697		13	6.6
205-99-2	Benzo[b]fluoranthene	906		16	7.8
191-24-2	Benzo[g,h,i]perylene	530		26	5.6
207-08-9	Benzo[k]fluoranthene	721		10	4.6
218-01-9	Chrysene	733		12	5.8
53-70-3	Dibenz(a,h)anthracene	551		26	5.2
206-44-0	Fluoranthene	751		26	5.1
86-73-7	Fluorene	584		26	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	561		26	9.1
90-12-0	1-Methylnaphthalene	605		51	5.6
91-57-6	2-Methylnaphthalene	618		51	9.1
91-20-3	Naphthalene	589		51	5.6
85-01-8	Phenanthrene	650		10	5.0
129-00-0	Pyrene	637		26	4.7

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\1DD24020.D
 Lab Smp Id: 680-89459-A-22-B MS
 Inj Date : 24-APR-2013 19:10
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89459-A-22-B MS
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\dFASTPAHi.m
 Meth Date : 24-Apr-2013 13:05 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 20 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.370	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.048	6.049	(1.000)		2047873	40.0000	
* 6 Acenaphthene-d10	164		7.734	7.730	(1.000)		1241886	40.0000	
* 9 Phenanthrene-d10	188		8.992	8.993	(1.000)		2023214	40.0000	
\$ 13 o-Terphenyl	230		9.297	9.298	(1.034)		196219	6.43668	420
* 17 Chrysene-d12	240		11.301	11.302	(1.000)		2174744	40.0000	
* 22 Perylene-d12	264		13.128	13.123	(1.000)		2244148	40.0000	
2 Naphthalene	128		6.072	6.073	(1.004)		351668	6.90887	450
3 2-Methylnaphthalene	142		6.777	6.778	(1.120)		238373	7.25461	470
4 1-Methylnaphthalene	142		6.871	6.872	(1.136)		220175	7.09566	460
5 Acenaphthylene	152		7.599	7.600	(0.983)		343776	6.54039	420
7 Acenaphthene	154		7.758	7.759	(1.003)		202062	6.22787	400
8 Fluorene	166		8.199	8.200	(1.060)		263275	6.85235	440
10 Phenanthrene	178		9.009	9.010	(1.002)		425135	7.62864	500
11 Anthracene	178		9.051	9.052	(1.007)		374873	6.77738	440

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
12 Carbazole	167	9.192	9.193	(1.022)	297155	6.09061	400
14 Fluoranthene	202	9.997	9.997	(1.112)	505387	8.81270	570
15 Pyrene	202	10.179	10.185	(0.901)	487966	7.47183	490
16 Benzo(a)anthracene	228	11.289	11.284	(0.999)	520928	8.28498	540
18 Chrysene	228	11.324	11.331	(1.002)	506929	8.59850	560
19 Benzo(b)fluoranthene	252	12.582	12.583	(0.958)	595613	10.6247	690
20 Benzo(k)fluoranthene	252	12.617	12.618	(0.961)	499747	8.46186	550
21 Benzo(a)pyrene	252	13.028	13.029	(0.992)	460503	8.17559	530
23 Indeno(1,2,3-cd)pyrene	276	14.709	14.710	(1.120)	395232	6.58053	430(M)
24 Dibenzo(a,h)anthracene	278	14.732	14.733	(1.122)	365237	6.45770	420
25 Benzo(g,h,i)perylene	276	15.143	15.150	(1.154)	359518	6.21678	400

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD24020.D

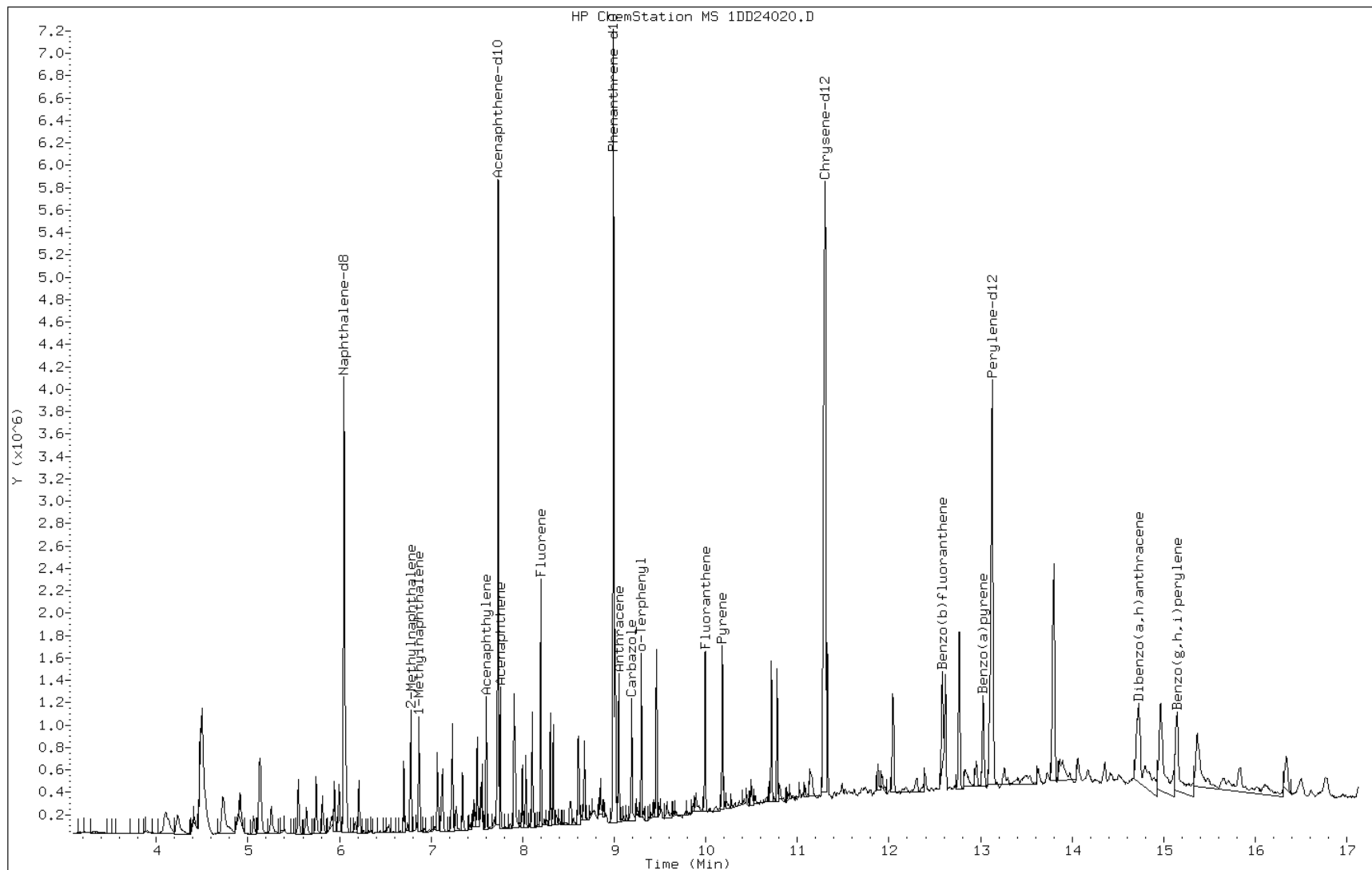
Date: 24-APR-2013 19:10

Client ID:

Instrument: BSMSD.i

Sample Info: 680-89459-A-22-B MS

Operator: SCC

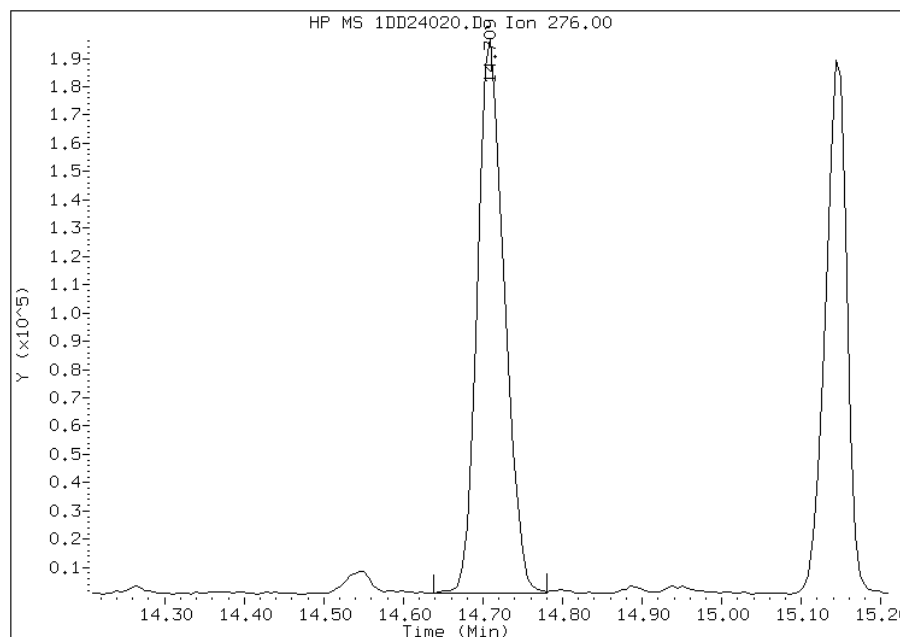


Manual Integration Report

Data File: 1DD24020.D
Inj. Date and Time: 24-APR-2013 19:10
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

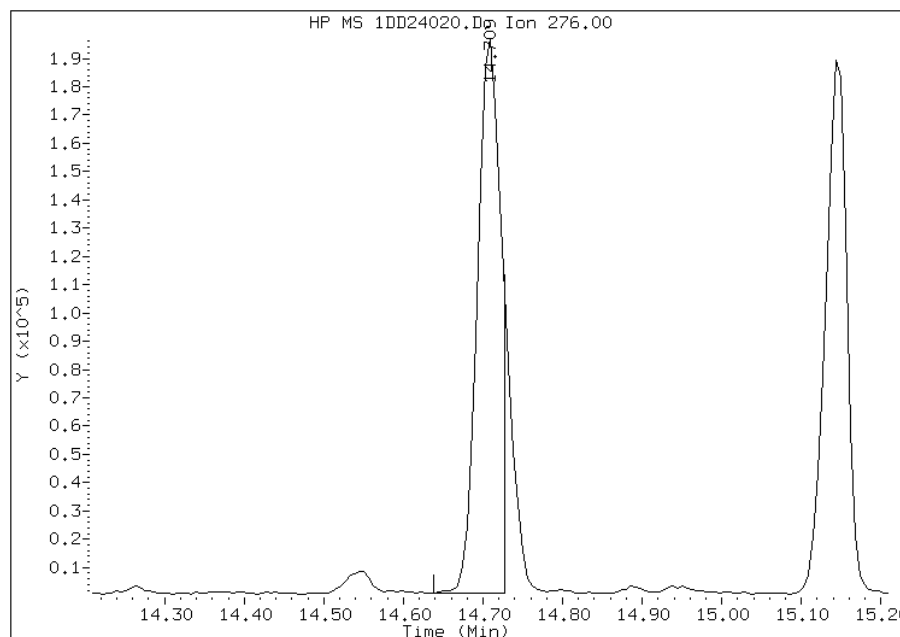
Processing Integration Results

RT: 14.71
Response: 458736
Amount: 8
Conc: 497



Manual Integration Results

RT: 14.71
Response: 395232
Amount: 7
Conc: 428



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:14
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-2</u>
SDG No.: <u>68089459-2</u>	
Client Sample ID: _____	Lab Sample ID: <u>680-89328-A-25-C MSD</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD23012.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 15:35</u>
Sample wt/vol: <u>15.00(g)</u>	Date Analyzed: <u>04/23/2013 17:07</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>4</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>22.8</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136756</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	506	J	520	100
208-96-8	Acenaphthylene	570		210	26
120-12-7	Anthracene	567		44	22
56-55-3	Benzo[a]anthracene	812		41	20
50-32-8	Benzo[a]pyrene	724		54	27
205-99-2	Benzo[b]fluoranthene	945		63	32
191-24-2	Benzo[g,h,i]perylene	823		100	23
207-08-9	Benzo[k]fluoranthene	636		41	19
218-01-9	Chrysene	910		47	23
53-70-3	Dibenz(a,h)anthracene	706		100	21
206-44-0	Fluoranthene	930		100	21
86-73-7	Fluorene	550		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	771		100	37
90-12-0	1-Methylnaphthalene	651		210	23
91-57-6	2-Methylnaphthalene	673		210	37
91-20-3	Naphthalene	586		210	23
85-01-8	Phenanthrene	865		41	20
129-00-0	Pyrene	876		100	19

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23012.D
Lab Smp Id: 680-89328-A-25-C MS
Inj Date : 23-APR-2013 17:07
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89328-A-25-C MSD
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 11 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.053	6.051	(1.000)		1786951	40.0000	
* 6 Acenaphthene-d10	164		7.734	7.732	(1.000)		1009070	40.0000	
* 9 Phenanthrene-d10	188		8.997	8.995	(1.000)		1671555	40.0000	
\$ 13 o-Terphenyl	230		9.303	9.306	(1.034)		36546	1.45105	390
* 17 Chrysene-d12	240		11.300	11.304	(1.000)		1598940	40.0000	
* 22 Perylene-d12	264		13.128	13.120	(1.000)		1867332	40.0000	
2 Naphthalene	128		6.071	6.075	(1.003)		75347	1.69641	450
3 2-Methylnaphthalene	142		6.782	6.780	(1.120)		55882	1.94903	520
4 1-Methylnaphthalene	142		6.870	6.874	(1.135)		50994	1.88336	500
5 Acenaphthylene	152		7.605	7.608	(0.983)		70440	1.64933	440
7 Acenaphthene	154		7.757	7.761	(1.003)		38646	1.46595	390
8 Fluorene	166		8.204	8.208	(1.061)		49670	1.59105	420
10 Phenanthrene	178		9.009	9.013	(1.001)		115282	2.50382	670
11 Anthracene	178		9.050	9.054	(1.006)		75060	1.64251	440

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
12 Carbazole	167	9.191	9.195	(1.022)	63235	1.56876	420
14 Fluoranthene	202	9.996	10.000	(1.111)	127494	2.69089	720
15 Pyrene	202	10.184	10.188	(0.901)	121748	2.53557	680
16 Benzo(a)anthracene	228	11.289	11.287	(0.999)	108693	2.35121	630
18 Chrysene	228	11.324	11.328	(1.002)	114153	2.63353	700
19 Benzo(b)fluoranthene	252	12.581	12.585	(0.958)	127650	2.73655	730
20 Benzo(k)fluoranthene	252	12.610	12.620	(0.961)	90490	1.84139	490
21 Benzo(a)pyrene	252	13.028	13.032	(0.992)	98224	2.09572	560
23 Indeno(1,2,3-cd)pyrene	276	14.696	14.706	(1.119)	111547	2.23201	600(M)
24 Dibenzo(a,h)anthracene	278	14.726	14.735	(1.122)	96200	2.04413	540
25 Benzo(g,h,i)perylene	276	15.131	15.141	(1.153)	114596	2.38147	640

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD23012.D

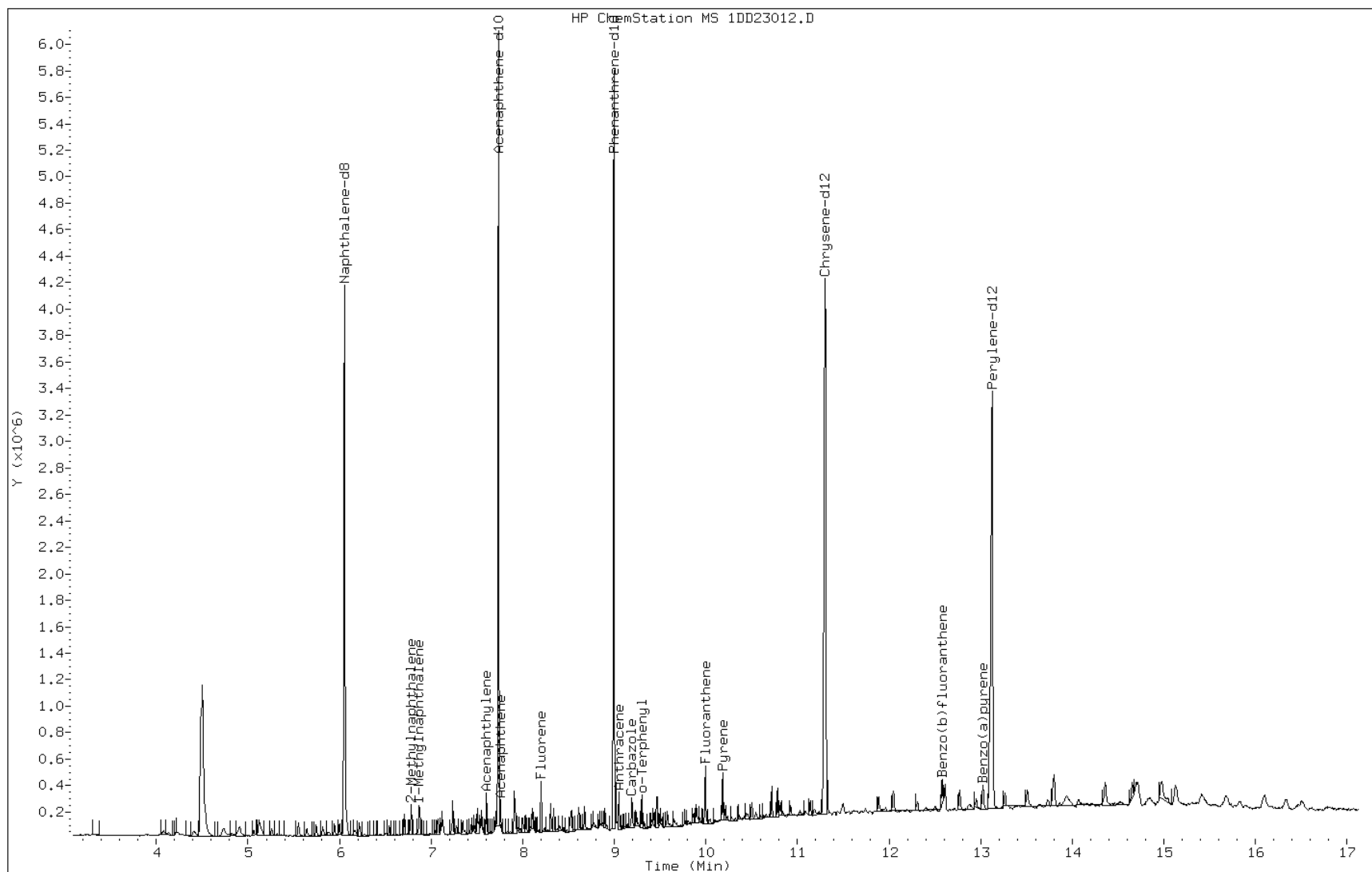
Date: 23-APR-2013 17:07

Client ID:

Instrument: BSMSD.i

Sample Info: 680-89328-A-25-C MSD

Operator: SCC

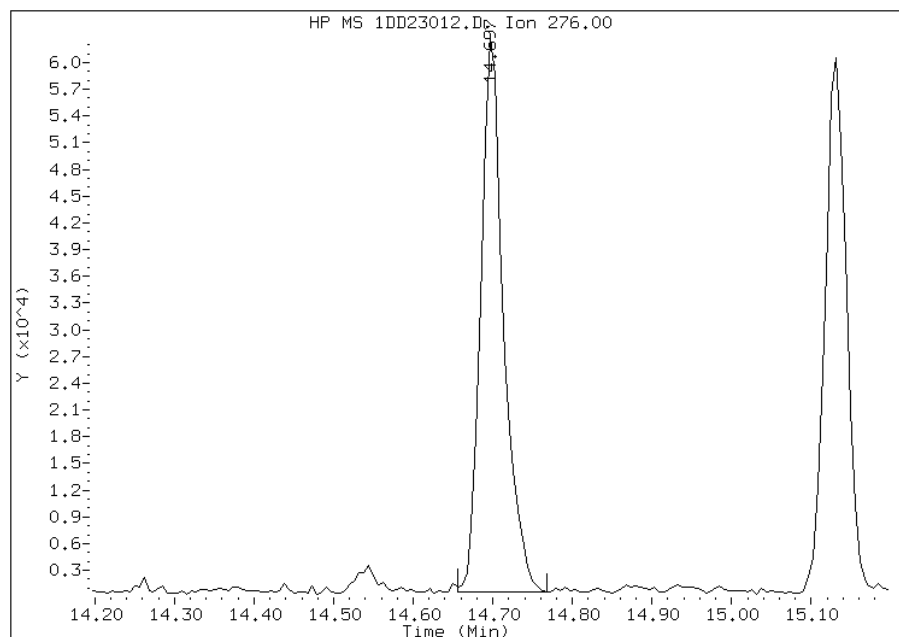


Manual Integration Report

Data File: 1DD23012.D
Inj. Date and Time: 23-APR-2013 17:07
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

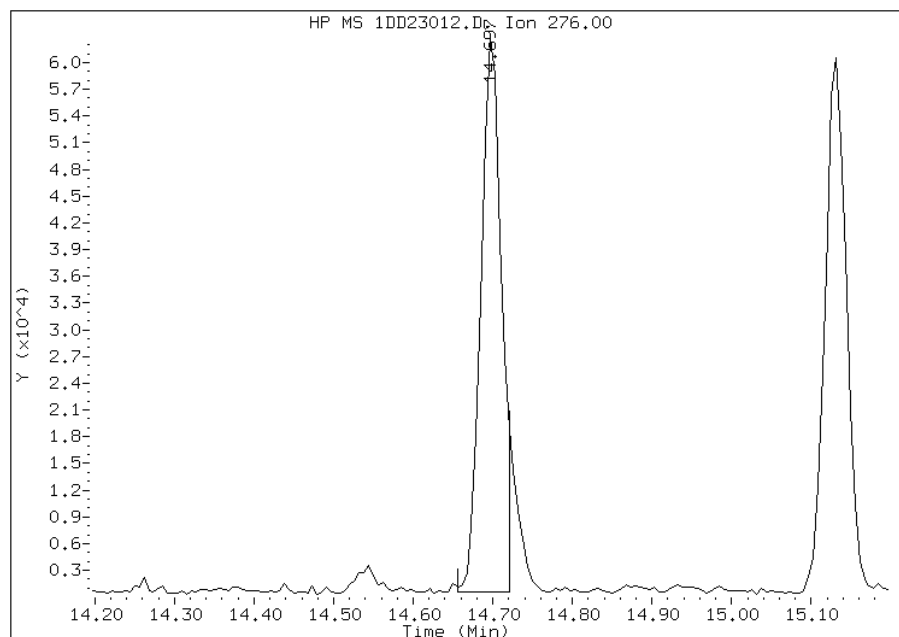
Processing Integration Results

RT: 14.70
Response: 123391
Amount: 2
Conc: 658



Manual Integration Results

RT: 14.70
Response: 111547
Amount: 2
Conc: 595



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 13:00
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-2</u>
SDG No.: <u>68089459-2</u>	
Client Sample ID: _____	Lab Sample ID: <u>680-89421-A-1-C MSD</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD24019.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/23/2013 10:36</u>
Sample wt/vol: <u>14.99(g)</u>	Date Analyzed: <u>04/24/2013 17:52</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>4</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>23.0</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136792</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	543		520	100
208-96-8	Acenaphthylene	662		210	26
120-12-7	Anthracene	660		44	22
56-55-3	Benzo[a]anthracene	1270		42	20
50-32-8	Benzo[a]pyrene	1100		54	27
205-99-2	Benzo[b]fluoranthene	1290		63	32
191-24-2	Benzo[g,h,i]perylene	868		100	23
207-08-9	Benzo[k]fluoranthene	1030		42	19
218-01-9	Chrysene	1290		47	23
53-70-3	Dibenz(a,h)anthracene	665		100	21
206-44-0	Fluoranthene	1700		100	21
86-73-7	Fluorene	800		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	852		100	37
90-12-0	1-Methylnaphthalene	1200		210	23
91-57-6	2-Methylnaphthalene	1300		210	37
91-20-3	Naphthalene	1020		210	23
85-01-8	Phenanthrene	1750		42	20
129-00-0	Pyrene	1470		100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24019.D
Lab Smp Id: 680-89421-a-1-c msd
Inj Date : 24-APR-2013 17:52
Operator : SCC
Smp Info : 680-89421-a-1-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 15 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000
Inst ID: BSMC5973.i
Compound Sublist: pah.sub

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.633	3.634	(1.000)		154110	40.0000	
* 6 Acenaphthene-d10	164		4.721	4.722	(1.000)		101315	40.0000	
* 10 Phenanthrene-d10	188		5.663	5.663	(1.000)		195570	40.0000	
\$ 14 o-Terphenyl	230		5.910	5.910	(1.044)		6061	2.13456	569.5948
* 18 Chrysene-d12	240		7.586	7.592	(1.000)		245677	40.0000	
* 23 Perylene-d12	264		8.733	8.733	(1.000)		249914	40.0000	
2 Naphthalene	128		3.645	3.646	(1.003)		12536	2.94471	785.7796
3 2-Methylnaphthalene	142		4.074	4.075	(1.121)		9793	3.74615	999.6410(R)
4 1-Methylnaphthalene	142		4.133	4.134	(1.138)		9536	3.45816	922.7915(R)
5 Acenaphthylene	152		4.633	4.634	(0.981)		8373	1.90978	509.6132
7 Acenaphthene	154		4.739	4.740	(1.004)		4486	1.56645	417.9992(Q)
9 Fluorene	166		5.057	5.057	(1.071)		8040	2.30762	615.7757
11 Phenanthrene	178		5.674	5.675	(1.002)		27000	5.04223	1345.4923(R)
12 Anthracene	178		5.710	5.710	(1.008)		10343	1.90514	508.3768

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ug/ml)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
13 Carbazole	167	5.816	5.822	(1.027)	11375	2.11341	563.9527
15 Fluoranthene	202	6.504	6.504	(1.149)	31838	4.89927	1307.3445(R)
16 Pyrene	202	6.668	6.675	(0.879)	30824	4.24825	1133.6231(R)
17 Benzo(a)anthracene	228	7.580	7.581	(0.999)	23587	3.66727	978.5915(R)
19 Chrysene	228	7.610	7.610	(1.003)	26177	3.73134	995.6875(R)
20 Benzo(b)fluoranthene	252	8.404	8.410	(0.962)	25781	3.72997	995.3222(R)
21 Benzo(k)fluoranthene	252	8.427	8.428	(0.965)	20030	2.97833	794.7515
22 Benzo(a)pyrene	252	8.680	8.686	(0.994)	20347	3.18815	850.7395
24 Indeno(1,2,3-cd)pyrene	276	9.827	9.833	(1.125)	12796	2.45983	656.3935(M)
25 Dibenzo(a,h)anthracene	278	9.839	9.851	(1.127)	11636	1.92011	512.3712
26 Benzo(g,h,i)perylene	276	10.156	10.163	(1.163)	15804	2.50450	668.3111(M)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
 R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.

Data File: 1CD24019.D

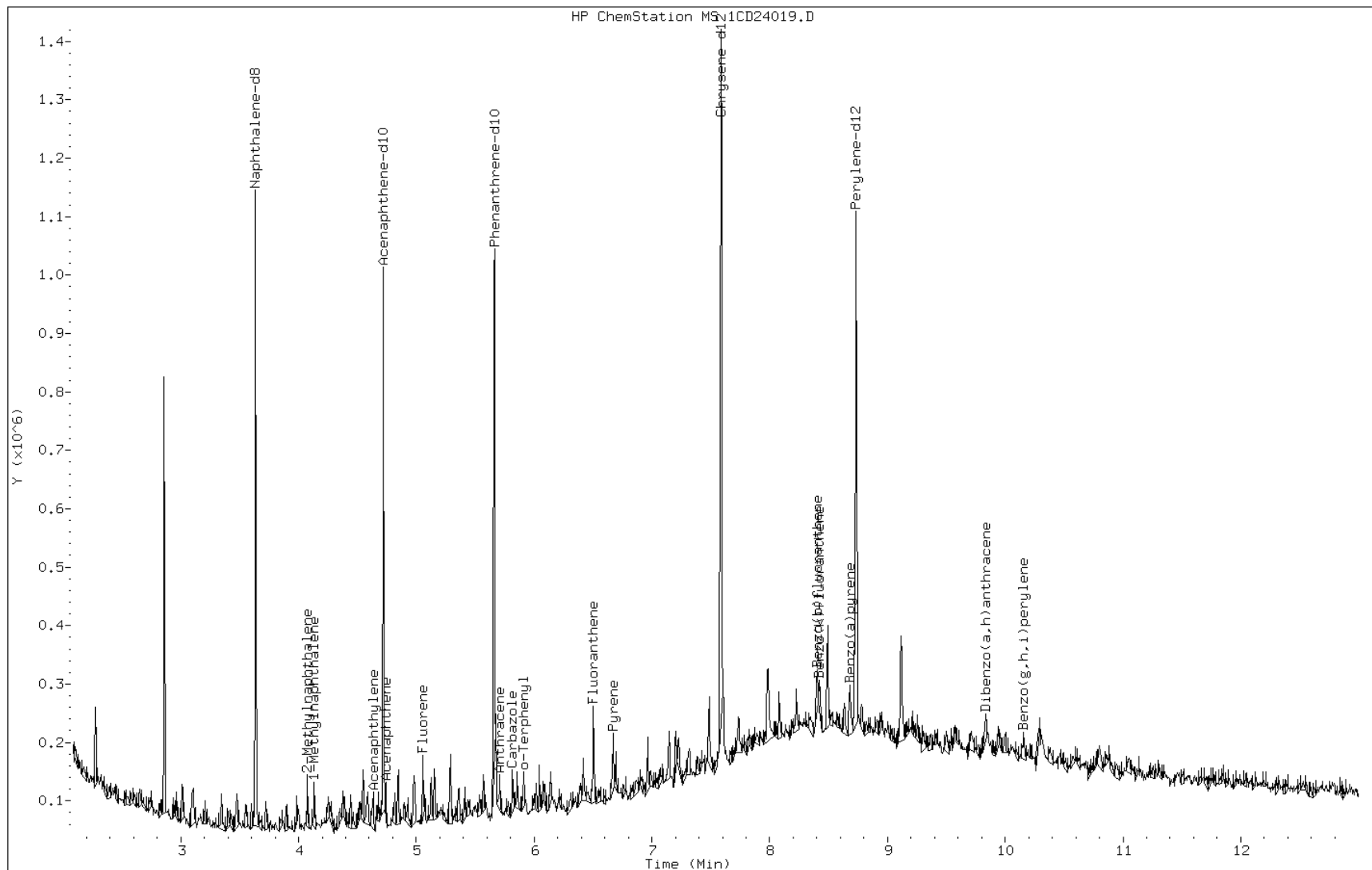
Date: 24-APR-2013 17:52

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-89421-a-1-c msd

Operator: SCC

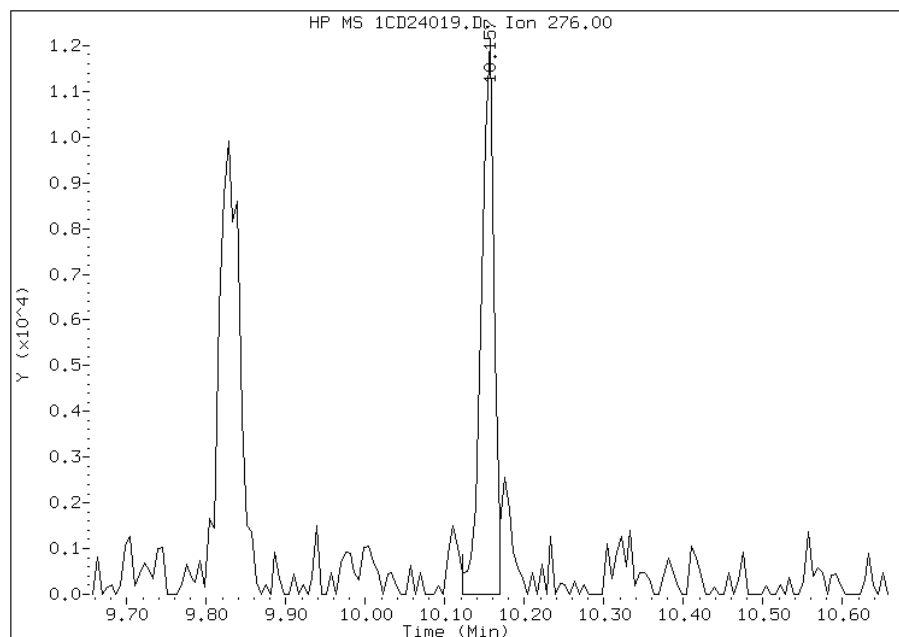


Manual Integration Report

Data File: 1CD24019.D
Inj. Date and Time: 24-APR-2013 17:52
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/25/2013

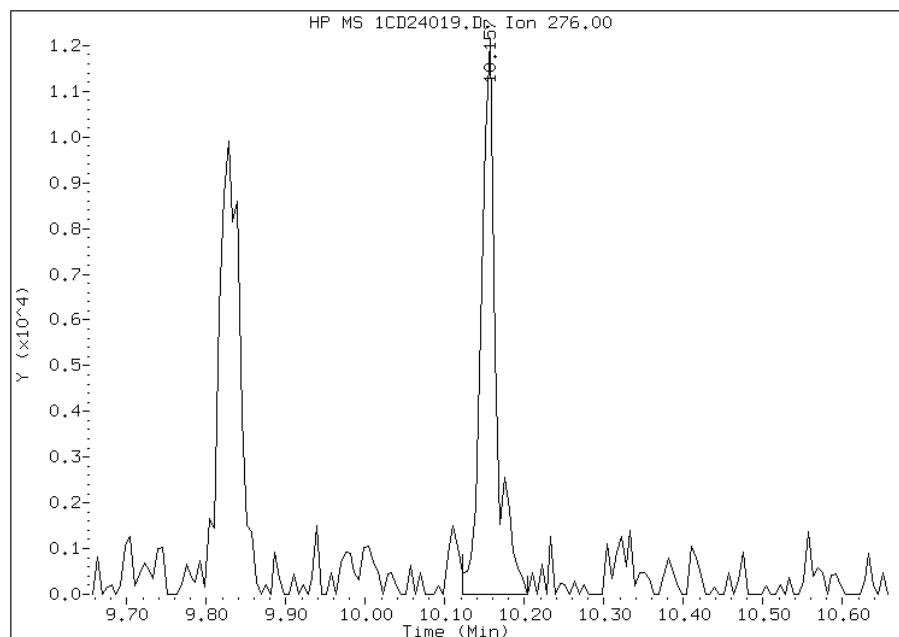
Processing Integration Results

RT: 10.16
Response: 13602
Amount: 2
Conc: 575



Manual Integration Results

RT: 10.16
Response: 15804
Amount: 3
Conc: 668



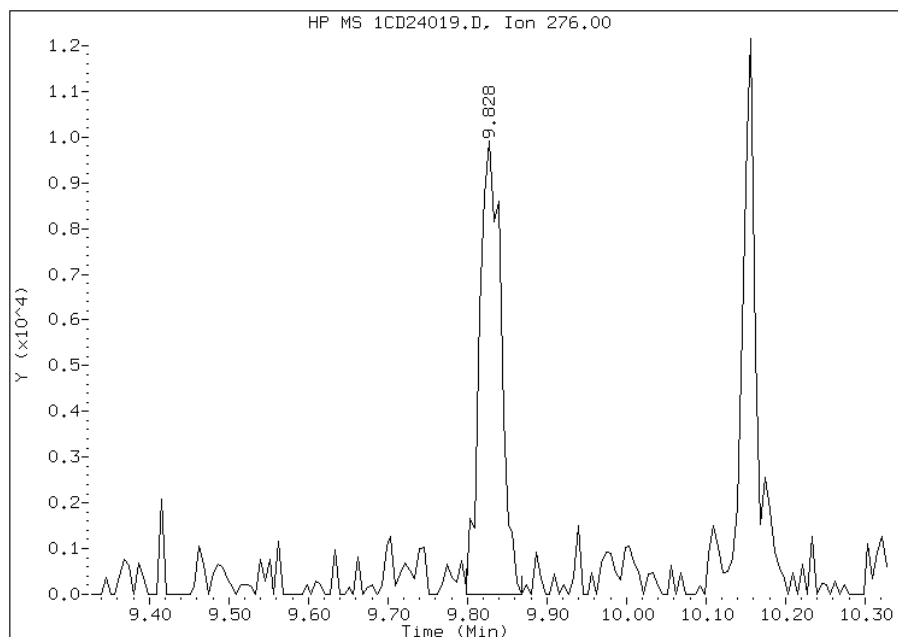
Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:33
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24019.D
Inj. Date and Time: 24-APR-2013 17:52
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

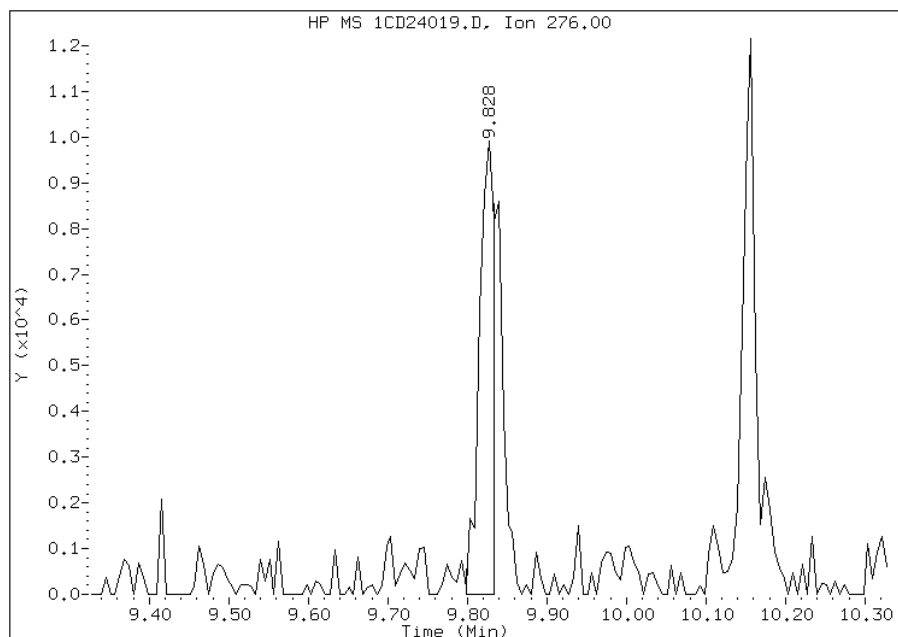
Processing Integration Results

RT: 9.83
Response: 18310
Amount: 3
Conc: 868



Manual Integration Results

RT: 9.83
Response: 12796
Amount: 2
Conc: 656



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-2</u>
SDG No.: <u>68089459-2</u>	
Client Sample ID: <u>CV1219B-CS MSD</u>	Lab Sample ID: <u>680-89459-22 MSD</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD24021.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 14:00</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/23/2013 14:49</u>
Sample wt/vol: <u>15.37(g)</u>	Date Analyzed: <u>04/24/2013 19:33</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>23.7</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136826</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	624		130	26
208-96-8	Acenaphthylene	666		51	6.4
120-12-7	Anthracene	691		11	5.4
56-55-3	Benzo[a]anthracene	855		10	5.0
50-32-8	Benzo[a]pyrene	827		13	6.6
205-99-2	Benzo[b]fluoranthene	1150		16	7.8
191-24-2	Benzo[g,h,i]perylene	619		26	5.6
207-08-9	Benzo[k]fluoranthene	835		10	4.6
218-01-9	Chrysene	833		12	5.8
53-70-3	Dibenz(a,h)anthracene	638		26	5.2
206-44-0	Fluoranthene	883		26	5.1
86-73-7	Fluorene	682		26	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	647		26	9.1
90-12-0	1-Methylnaphthalene	708		51	5.6
91-57-6	2-Methylnaphthalene	705		51	9.1
91-20-3	Naphthalene	690		51	5.6
85-01-8	Phenanthrene	759		10	5.0
129-00-0	Pyrene	734		26	4.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	76		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\1DD24021.D
 Lab Smp Id: 680-89459-A-22-C MS
 Inj Date : 24-APR-2013 19:33
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89459-A-22-C MSD
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\dFASTPAHi.m
 Meth Date : 24-Apr-2013 13:05 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 21 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.370	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

						CONCENTRATIONS			
		QUANT	SIG					ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)	
=====		=====	=====	=====	=====	=====	=====	=====	
*	1 Naphthalene-d8	136	6.050	6.049	(1.000)	2013105	40.0000		
*	6 Acenaphthene-d10	164	7.730	7.730	(1.000)	1218867	40.0000		
*	9 Phenanthrene-d10	188	8.993	8.993	(1.000)	1994412	40.0000		
\$	13 o-Terphenyl	230	9.299	9.298	(1.034)	229455	7.63564	500	
*	17 Chrysene-d12	240	11.308	11.302	(1.000)	2213259	40.0000		
*	22 Perylene-d12	264	13.135	13.123	(1.000)	2227627	40.0000		
	2 Naphthalene	128	6.073	6.073	(1.004)	404914	8.09233	530	
	3 2-Methylnaphthalene	142	6.778	6.778	(1.120)	267131	8.27023	540	
	4 1-Methylnaphthalene	142	6.872	6.872	(1.136)	253447	8.30900	540	
	5 Acenaphthylene	152	7.601	7.600	(0.983)	402989	7.81173	510	
	7 Acenaphthene	154	7.759	7.759	(1.004)	233104	7.32032	480	
	8 Fluorene	166	8.200	8.200	(1.061)	301757	8.00226	520	
	10 Phenanthrene	178	9.011	9.010	(1.002)	489120	8.90354	580	
	11 Anthracene	178	9.052	9.052	(1.007)	442206	8.11015	530	

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
12 Carbazole	167	9.193	9.193	(1.022)	346743	7.20962	470
14 Fluoranthene	202	9.998	9.997	(1.112)	585322	10.3540	670
15 Pyrene	202	10.180	10.185	(0.900)	571919	8.60494	560
16 Benzo(a)anthracene	228	11.290	11.284	(0.998)	641983	10.0326	650
18 Chrysene	228	11.332	11.331	(1.002)	586065	9.76781	640
19 Benzo(b)fluoranthene	252	12.589	12.583	(0.958)	753511	13.5410	880(R)
20 Benzo(k)fluoranthene	252	12.618	12.618	(0.961)	574202	9.79467	640
21 Benzo(a)pyrene	252	13.035	13.029	(0.992)	542366	9.70036	630
23 Indeno(1,2,3-cd)pyrene	276	14.716	14.710	(1.120)	452216	7.58514	490(M)
24 Dibenzo(a,h)anthracene	278	14.739	14.733	(1.122)	420457	7.48917	490
25 Benzo(g,h,i)perylene	276	15.151	15.150	(1.153)	417072	7.26549	470

QC Flag Legend

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

Data File: 1DD24021.D

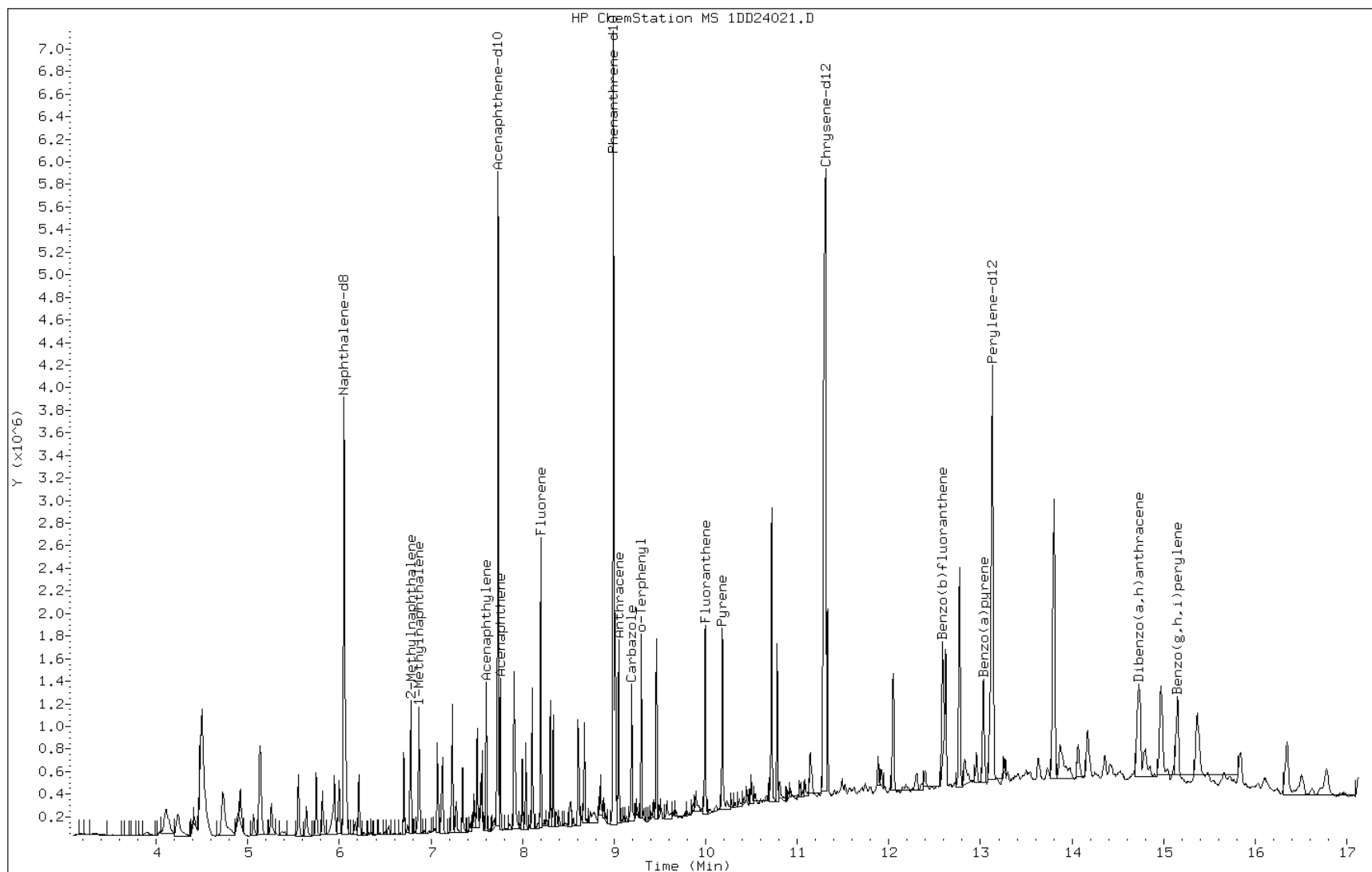
Date: 24-APR-2013 19:33

Client ID:

Instrument: BSMSD.i

Sample Info: 680-89459-A-22-C MSD

Operator: SCC

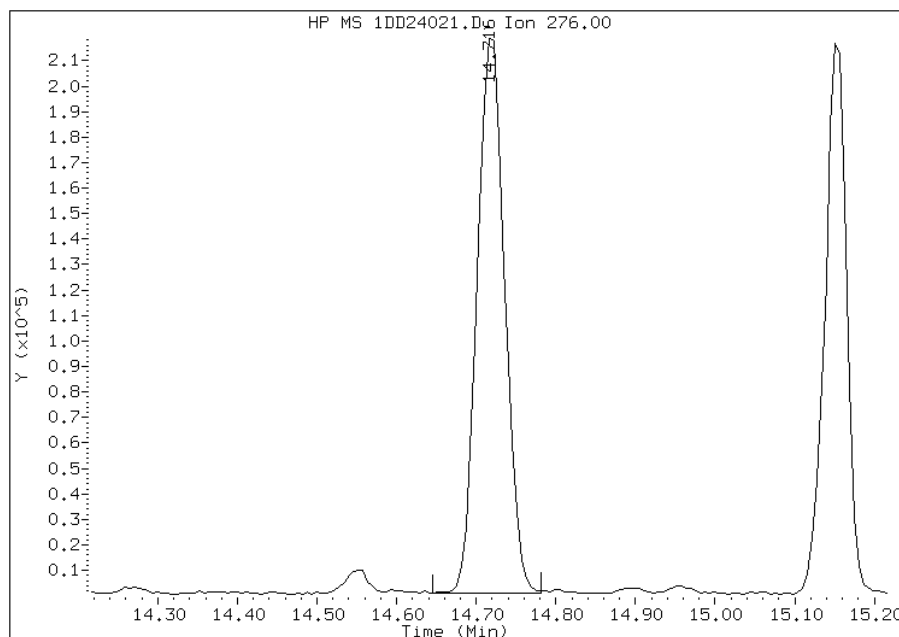


Manual Integration Report

Data File: 1DD24021.D
Inj. Date and Time: 24-APR-2013 19:33
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

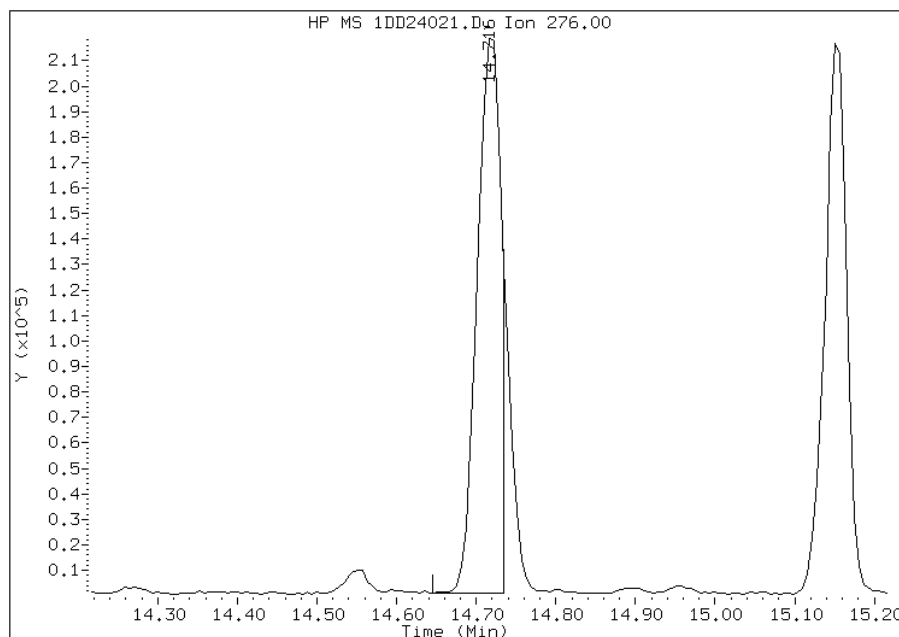
Processing Integration Results

RT: 14.72
Response: 524600
Amount: 9
Conc: 572



Manual Integration Results

RT: 14.72
Response: 452216
Amount: 8
Conc: 494



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:14
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-89459-2SDG No.: 68089459-2Instrument ID: BSMC5973Start Date: 04/24/2013 09:38Analysis Batch Number: 136792End Date: 04/25/2013 00:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/24/2013 09:38	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 10:05	1		DB-5MS 250 (um)
DFTTP 660-136792/2		04/24/2013 10:23	1		DB-5MS 250 (um)
DFTTP 660-136792/3		04/24/2013 10:47	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 12:43	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 13:01	1		DB-5MS 250 (um)
DFTTP 660-136792/6		04/24/2013 13:20	1		DB-5MS 250 (um)
DFTTP 660-136792/7		04/24/2013 13:40	1	1CD24006.D	DB-5MS 250 (um)
ICIS 660-136792/8		04/24/2013 13:57	1	1CD24007.D	DB-5MS 250 (um)
IC 660-136792/9		04/24/2013 14:16	1	1CD24008.D	DB-5MS 250 (um)
IC 660-136792/10		04/24/2013 14:34	1	1CD24009.D	DB-5MS 250 (um)
IC 660-136792/11		04/24/2013 14:52	1	1CD24010.D	DB-5MS 250 (um)
IC 660-136792/12		04/24/2013 15:11	1	1CD24011.D	DB-5MS 250 (um)
IC 660-136792/13		04/24/2013 15:29	1	1CD24012.D	DB-5MS 250 (um)
IC 660-136792/14		04/24/2013 15:47	1	1CD24013.D	DB-5MS 250 (um)
ICV 660-136792/15		04/24/2013 16:06	1	1CD24014.D	DB-5MS 250 (um)
MB 660-136731/1-A		04/24/2013 16:40	1	1CD24015.D	DB-5MS 250 (um)
LCS 660-136731/2-A		04/24/2013 16:58	1	1CD24016.D	DB-5MS 250 (um)
ZZZZZ		04/24/2013 17:16	4		DB-5MS 250 (um)
680-89421-A-1-B MS		04/24/2013 17:34	4	1CD24018.D	DB-5MS 250 (um)
680-89421-A-1-C MSD		04/24/2013 17:52	4	1CD24019.D	DB-5MS 250 (um)
680-89459-31	CV1013A-CS-SP	04/24/2013 18:11	1	1CD24020.D	DB-5MS 250 (um)
680-89459-32	CV1013B-CS-SP	04/24/2013 18:29	1	1CD24021.D	DB-5MS 250 (um)
ZZZZZ		04/24/2013 18:47	4		DB-5MS 250 (um)
ZZZZZ		04/24/2013 19:05	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 19:24	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 19:42	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 20:00	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 20:19	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 20:37	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 20:55	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 21:14	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 21:32	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 21:51	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 22:09	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 22:27	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 22:46	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 23:04	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 23:23	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 23:41	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 23:59	4		DB-5MS 250 (um)
ZZZZZ		04/25/2013 00:18	1		DB-5MS 250 (um)
ZZZZZ		04/25/2013 00:36	1		DB-5MS 250 (um)
ZZZZZ		04/25/2013 00:55	1		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-89459-2SDG No.: 68089459-2Instrument ID: BSMD5973Start Date: 04/04/2013 11:04Analysis Batch Number: 136164End Date: 04/04/2013 20:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/04/2013 11:04	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 11:30	1		DB-5MS 250 (um)
DFTPP 660-136164/2		04/04/2013 11:55	1		DB-5MS 250 (um)
DFTPP 660-136164/3		04/04/2013 12:15	1	1DD04003.D	DB-5MS 250 (um)
CCVIS 660-136164/4		04/04/2013 12:34	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 13:02	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 13:26	1		DB-5MS 250 (um)
IC 660-136164/15		04/04/2013 13:49	1	1DD04007.D	DB-5MS 250 (um)
IC 660-136164/16		04/04/2013 14:11	1	1DD04008.D	DB-5MS 250 (um)
IC 660-136164/17		04/04/2013 14:34	1	1DD04009.D	DB-5MS 250 (um)
IC 660-136164/18		04/04/2013 14:57	1	1DD04010.D	DB-5MS 250 (um)
ICIS 660-136164/19		04/04/2013 15:19	1	1DD04011.D	DB-5MS 250 (um)
IC 660-136164/20		04/04/2013 15:42	1	1DD04012.D	DB-5MS 250 (um)
IC 660-136164/21		04/04/2013 16:04	1	1DD04013.D	DB-5MS 250 (um)
ICV 660-136164/22		04/04/2013 16:27	1	1DD04014.D	DB-5MS 250 (um)
ZZZZZ		04/04/2013 16:52	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 17:18	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 17:44	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 18:09	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 18:35	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 19:01	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 19:27	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 19:51	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 20:13	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 20:36	1		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-89459-2SDG No.: 68089459-2Instrument ID: BSMD5973Start Date: 04/23/2013 11:41Analysis Batch Number: 136756End Date: 04/24/2013 00:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/23/2013 11:41	1		DB-5MS 250 (um)
ZZZZZ		04/23/2013 12:03	1		DB-5MS 250 (um)
DFTTP 660-136756/2		04/23/2013 12:28	1		DB-5MS 250 (um)
DFTTP 660-136756/3		04/23/2013 12:50	1	1DD23003.D	DB-5MS 250 (um)
CCVIS 660-136756/4		04/23/2013 13:06	1	1DD23004.D	DB-5MS 250 (um)
ZZZZZ		04/23/2013 13:29	1		DB-5MS 250 (um)
ZZZZZ		04/23/2013 14:52	4		DB-5MS 250 (um)
ZZZZZ		04/23/2013 15:14	4		DB-5MS 250 (um)
MB 660-136660/1-A		04/23/2013 15:37	1	1DD23008.D	DB-5MS 250 (um)
LCS 660-136660/2-A		04/23/2013 15:59	1	1DD23009.D	DB-5MS 250 (um)
ZZZZZ		04/23/2013 16:22	4		DB-5MS 250 (um)
680-89328-A-25-B MS		04/23/2013 16:44	4	1DD23011.D	DB-5MS 250 (um)
680-89328-A-25-C MSD		04/23/2013 17:07	4	1DD23012.D	DB-5MS 250 (um)
ZZZZZ		04/23/2013 17:29	1		DB-5MS 250 (um)
ZZZZZ		04/23/2013 17:52	4		DB-5MS 250 (um)
ZZZZZ		04/23/2013 18:14	4		DB-5MS 250 (um)
ZZZZZ		04/23/2013 18:37	4		DB-5MS 250 (um)
ZZZZZ		04/23/2013 19:00	4		DB-5MS 250 (um)
ZZZZZ		04/23/2013 19:22	4		DB-5MS 250 (um)
ZZZZZ		04/23/2013 19:45	4		DB-5MS 250 (um)
ZZZZZ		04/23/2013 20:07	4		DB-5MS 250 (um)
ZZZZZ		04/23/2013 20:30	4		DB-5MS 250 (um)
ZZZZZ		04/23/2013 20:52	1		DB-5MS 250 (um)
680-89459-21	CV1219A-CSD	04/23/2013 21:15	1	1DD23023.D	DB-5MS 250 (um)
680-89459-23	CV1344A-CS	04/23/2013 21:38	4	1DD23024.D	DB-5MS 250 (um)
680-89459-24	CV1344A-CSD	04/23/2013 22:00	4	1DD23025.D	DB-5MS 250 (um)
680-89459-25	CV1344B-CS	04/23/2013 22:23	4	1DD23026.D	DB-5MS 250 (um)
680-89459-26	CV1344C-CS	04/23/2013 22:45	4	1DD23027.D	DB-5MS 250 (um)
680-89459-27	CV0313A-CS-SP	04/23/2013 23:08	1	1DD23028.D	DB-5MS 250 (um)
680-89459-28	CV0313B-CS-SP	04/23/2013 23:30	4	1DD23029.D	DB-5MS 250 (um)
680-89459-29	CV0423A-CS-SP	04/23/2013 23:53	1	1DD23030.D	DB-5MS 250 (um)
680-89459-30	CV0423B-CS-SP	04/24/2013 00:16	1	1DD23031.D	DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-89459-2SDG No.: 68089459-2Instrument ID: BSMD5973Start Date: 04/24/2013 12:06Analysis Batch Number: 136826End Date: 04/25/2013 00:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/24/2013 12:06	1		DB-5MS 250 (um)
DFTTP 660-136826/2		04/24/2013 12:30	1	1DD24002.D	DB-5MS 250 (um)
CCVIS 660-136826/3		04/24/2013 12:46	1	1DD24003.D	DB-5MS 250 (um)
ZZZZZ		04/24/2013 13:10	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 13:33	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 13:55	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 14:18	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 14:40	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 15:03	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 15:25	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 15:48	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 16:10	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 16:33	1		DB-5MS 250 (um)
MB 660-136752/1-A		04/24/2013 16:55	1	1DD24014.D	DB-5MS 250 (um)
LCS 660-136752/2-A		04/24/2013 17:18	1	1DD24015.D	DB-5MS 250 (um)
ZZZZZ		04/24/2013 17:40	4		DB-5MS 250 (um)
ZZZZZ		04/24/2013 18:03	4		DB-5MS 250 (um)
ZZZZZ		04/24/2013 18:25	4		DB-5MS 250 (um)
680-89459-22	CV1219B-CS	04/24/2013 18:48	1	1DD24019.D	DB-5MS 250 (um)
680-89459-22 MS	CV1219B-CS MS	04/24/2013 19:10	1	1DD24020.D	DB-5MS 250 (um)
680-89459-22 MSD	CV1219B-CS MSD	04/24/2013 19:33	1	1DD24021.D	DB-5MS 250 (um)
ZZZZZ		04/24/2013 19:55	4		DB-5MS 250 (um)
ZZZZZ		04/24/2013 20:18	4		DB-5MS 250 (um)
ZZZZZ		04/24/2013 20:40	4		DB-5MS 250 (um)
ZZZZZ		04/24/2013 21:03	4		DB-5MS 250 (um)
ZZZZZ		04/24/2013 21:26	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 21:48	4		DB-5MS 250 (um)
ZZZZZ		04/24/2013 22:11	4		DB-5MS 250 (um)
ZZZZZ		04/24/2013 22:33	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 22:56	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 23:18	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 23:41	1		DB-5MS 250 (um)
ZZZZZ		04/25/2013 00:03	4		DB-5MS 250 (um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89459-2SDG No.: 68089459-2Batch Number: 136660 Batch Start Date: 04/19/13 15:35 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 04/22/13 11:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179		
MB 660-136660/1		3546, 8270C LL		14.92 g	1 mL		1 mL		
LCS 660-136660/2		3546, 8270C LL		15.32 g	1 mL	1 mL	1 mL		
680-89328-A-25 MS		3546, 8270C LL	T	15.00 g	1 mL	1 mL	1 mL		
680-89328-A-25 MSD		3546, 8270C LL	T	15.00 g	1 mL	1 mL	1 mL		
680-89459-A-21	CV1219A-CSD	3546, 8270C LL	T	15.21 g	1 mL		1 mL		
680-89459-A-23	CV1344A-CS	3546, 8270C LL	T	14.91 g	1 mL		1 mL		
680-89459-A-24	CV1344A-CSD	3546, 8270C LL	T	15.10 g	1 mL		1 mL		
680-89459-A-25	CV1344B-CS	3546, 8270C LL	T	15.38 g	1 mL		1 mL		
680-89459-A-26	CV1344C-CS	3546, 8270C LL	T	14.91 g	1 mL		1 mL		
680-89459-A-27	CV0313A-CS-SP	3546, 8270C LL	T	14.90 g	1 mL		1 mL		
680-89459-A-28	CV0313B-CS-SP	3546, 8270C LL	T	14.94 g	1 mL		1 mL		
680-89459-A-29	CV0423A-CS-SP	3546, 8270C LL	T	14.91 g	1 mL		1 mL		
680-89459-A-30	CV0423B-CS-SP	3546, 8270C LL	T	15.11 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270C LL

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GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89459-2SDG No.: 68089459-2Batch Number: 136660 Batch Start Date: 04/19/13 15:35 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 04/22/13 11:30

Batch Notes	
Acetone Lot #	EX-ACETON BOT 51
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 55
MeCl2/Acetone Lot #	DCM/ACETON 71
Microwave Start Time	16:40 4/19/13
Microwave Stop Time	17:15 4/19/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	GE-OTTOWA SAND 15
Person's name who did the prep	SAUREL
SOP Number	TP-EX-014
Person who witnessed spiking	RYAN
Surrogate Lot Number	EXLLSURINT 179
Water Bath ID	TURBOVAP2 #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.: 680-89459-2SDG No.: 68089459-2Batch Number: 136731 Batch Start Date: 04/23/13 10:36 Batch Analyst: Nolan, RyanBatch Method: 3546 Batch End Date: 04/23/13 15:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179		
MB 660-136731/1		3546, 8270C LL		14.98 g	1 mL		1 mL		
LCS 660-136731/2		3546, 8270C LL		14.96 g	1 mL	1 mL	1 mL		
680-89421-A-1 MS		3546, 8270C LL	T	14.96 g	1 mL	1 mL	1 mL		
680-89421-A-1 MSD		3546, 8270C LL	T	14.99 g	1 mL	1 mL	1 mL		
680-89459-A-31	CV1013A-CS-SP	3546, 8270C LL	T	14.98 g	1 mL		1 mL		
680-89459-A-32	CV1013B-CS-SP	3546, 8270C LL	T	14.89 g	1 mL		1 mL		

Batch Notes	
Acetone Lot #	EX-ACETON BOT 51
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCl2 Lot #	EX-MC CYCL 55
MeCl2/Acetone Lot #	DCM/ACETON 71
Microwave Start Time	12:00 4/23/13
Microwave Stop Time	12:35 4/23/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	GE-OTTOWA SAND 15
Person's name who did the prep	RYAN
SOP Number	TP-EX-014
Person who witnessed spiking	SAUREL
Surrogate Lot Number	EXLLSURINT 179
Water Bath ID	TURBOVAP2 #1-4
Water Bath Temperature	40

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270C LL

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GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89459-2SDG No.: 68089459-2Batch Number: 136731 Batch Start Date: 04/23/13 10:36 Batch Analyst: Nolan, RyanBatch Method: 3546 Batch End Date: 04/23/13 15:45

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.

8270C LL

Page 2 of 2

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89459-2SDG No.: 68089459-2Batch Number: 136752 Batch Start Date: 04/23/13 14:49 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 04/24/13 14:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179		
MB 660-136752/1		3546, 8270C LL		15.31 g	1 mL		1 mL		
LCS 660-136752/2		3546, 8270C LL		15.23 g	1 mL	1 mL	1 mL		
680-89459-A-22	CV1219B-CS	3546, 8270C LL	T	15.37 g	1 mL		1 mL		
680-89459-A-22 MS	CV1219B-CS	3546, 8270C LL	T	15.37 g	1 mL	1 mL	1 mL		
680-89459-A-22 MSD	CV1219B-CS	3546, 8270C LL	T	15.37 g	1 mL	1 mL	1 mL		

Batch Notes	
Acetone Lot #	EX-ACETON BOT 52
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 56
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCl2 Lot #	EX-MC CYCL 56
MeCl2/Acetone Lot #	DCM/ACETON 72
Microwave Start Time	16:30 4/23/13
Microwave Stop Time	17:05 4/23/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	GE-OTTOWA SAND 15
Person's name who did the prep	SAUREL
SOP Number	TP-EX014
Person who witnessed spiking	SELF
Surrogate Lot Number	EXLLSURINT 179
Water Bath ID	TURBOVAP2 #1-4
Water Bath Temperature	40

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270C LL

Page 1 of 2

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89459-2SDG No.: 68089459-2Batch Number: 136752 Batch Start Date: 04/23/13 14:49 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 04/24/13 14:10

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.

8270C LL

Page 2 of 2

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89459-2
SDG No.: 68089459-2
Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
<u>CV1219A-CSD</u>	<u>680-89459-21</u>
<u>CV1219B-CS</u>	<u>680-89459-22</u>
<u>CV1344A-CS</u>	<u>680-89459-23</u>
<u>CV1344A-CSD</u>	<u>680-89459-24</u>
<u>CV1344B-CS</u>	<u>680-89459-25</u>
<u>CV1344C-CS</u>	<u>680-89459-26</u>
<u>CV0313A-CS-SP</u>	<u>680-89459-27</u>
<u>CV0313B-CS-SP</u>	<u>680-89459-28</u>
<u>CV0423A-CS-SP</u>	<u>680-89459-29</u>
<u>CV0423B-CS-SP</u>	<u>680-89459-30</u>
<u>CV1013A-CS-SP</u>	<u>680-89459-31</u>
<u>CV1013B-CS-SP</u>	<u>680-89459-32</u>

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89459-2
SDG Number: 68089459-2
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89459-2
SDG Number: 68089459-2
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.: 680-89459-2

SDG No.: 68089459-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/19/2013 06:58 End Date: 04/19/2013 06:58

Lab Sample ID	D / F	T y p e	Time	Analytes															
				M o i s t															
ZZZZZZ			06:58																
ZZZZZZ			06:58																
ZZZZZZ			06:58																
ZZZZZZ			06:58																
ZZZZZZ			06:58																
ZZZZZZ			06:58																
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ZZZZZZ			06:58																
ZZZZZZ			06:58																
ZZZZZZ			06:58																
ZZZZZZ			06:58																
680-89459-24	1	T	06:58	X															
ZZZZZZ			06:58																
ZZZZZZ			06:58																
ZZZZZZ			06:58																
680-89459-23	1	T	06:58	X															
ZZZZZZ			06:58																
ZZZZZZ			06:58																
680-89459-27	1	T	06:58	X															
ZZZZZZ			06:58																
ZZZZZZ			06:58																
ZZZZZZ			06:58																
ZZZZZZ			06:58																
ZZZZZZ			06:58																
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ZZZZZZ			06:58																
ZZZZZZ			06:58																
ZZZZZZ			06:58																
ZZZZZZ			06:58																
680-89459-31	1	T	06:58	X															
680-89459-30	1	T	06:58	X															
680-89459-29	1	T	06:58	X															
680-89459-26	1	T	06:58	X															
680-89459-25	1	T	06:58	X															
680-89459-32	1	T	06:58	X															
ZZZZZZ			06:58																
680-89459-28	1	T	06:58	X															
ZZZZZZ			06:58																

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-89459-2

SDG No.: 68089459-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/19/2013 06:58 End Date: 04/19/2013 06:58

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				M o i s t																	
ZZZZZZ			06:58																		
680-89459-21	1	T	06:58	X																	
ZZZZZZ			06:58																		
680-89459-A-12 MS	1	T	06:58	X																	
680-89459-A-12 MSD	1	T	06:58	X																	
680-89459-22	1	T	06:58	X																	
680-89459-22 MS	1	T	06:58	X																	
680-89459-22 MSD	1	T	06:58	X																	

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89459-2SDG No.: 68089459-2Batch Number: 136617 Batch Start Date: 04/19/13 06:58 Batch Analyst: Galio, AndrewBatch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-89459-A-24	CV1344A-CSD	Moisture	T	16	0 g	5.15 g	3.94 g		
680-89459-A-23	CV1344A-CS	Moisture	T	20	0 g	4.65 g	3.57 g		
680-89459-A-27	CV0313A-CS-SP	Moisture	T	23	0 g	4.61 g	3.57 g		
680-89459-A-31	CV1013A-CS-SP	Moisture	T	34	0 g	4.39 g	3.58 g		
680-89459-A-30	CV0423B-CS-SP	Moisture	T	35	0 g	4.82 g	3.66 g		
680-89459-A-29	CV0423A-CS-SP	Moisture	T	36	0 g	4.67 g	3.68 g		
680-89459-A-26	CV1344C-CS	Moisture	T	37	0 g	4.54 g	3.54 g		
680-89459-A-25	CV1344B-CS	Moisture	T	38	0 g	4.31 g	3.43 g		
680-89459-A-32	CV1013B-CS-SP	Moisture	T	39	0 g	4.57 g	3.40 g		
680-89459-A-28	CV0313B-CS-SP	Moisture	T	41	0 g	4.60 g	3.53 g		
680-89459-A-21	CV1219A-CSD	Moisture	T	44	0 g	4.53 g	3.56 g		
680-89459-A-12 MS		Moisture	T	45	0 g	5.39 g	4.17 g		
680-89459-A-12 MSD		Moisture	T	45	0 g	5.39 g	4.17 g		
680-89459-A-22	CV1219B-CS	Moisture	T	46	0 g	4.73 g	3.61 g		
680-89459-A-22 MS	CV1219B-CS	Moisture	T	46	0 g	4.73 g	3.61 g		
680-89459-A-22 MSD	CV1219B-CS	Moisture	T	46	0 g	4.73 g	3.61 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	4.19.13

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

Page 1 of 1

Shipping and Receiving Documents

Serial Number 64607

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

☒ Alternate Laboratory Name/Location

Test Am. Tampa

Phone:
Fax:

PROJECT REFERENCE 35th Ave. Removal		PROJECT NO. 2005198-1356	PROJECT LOCATION (STATE) AL	MATRIX TYPE	REQUIRED ANALYSIS										PAGE 2 OF 3					
(b) (6)				COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PRAH	RCRA 8 Metals								STANDARD REPORT DELIVERY ☐	DATE DUE _____	
																		EXPEDITED REPORT DELIVERY (SURCHARGE) ☐	DATE DUE _____	
COMPANY CONTRACTING THIS WORK (if applicable)									PRESERVATIVE								NUMBER OF COOLERS SUBMITTED PER SHIPMENT:			
SAMPLE		SAMPLE IDENTIFICATION							NUMBER OF CONTAINERS SUBMITTED										REMARKS	
DATE	TIME																			
4-16-13	1045	CV1225A-CS-SP		C	X				X											
	0930	CV1282A-CS-SP		C	X				X											
	0940	CV1282B-CS-SP		C	X				X											
	0955	CV1282C-CS-SP		C	X				X	X										
	1005	CV1282D-CS-SP		C	X				X											
	1415	CV1217A-CS		C	X				X											
	1425	CV1217B-CS		C	X				X											
	1350	CV1219A-CS		C	X				X											
	1350	CV1219A-CSD		C	X				X											
	1400	CV1219B-CS		C	X				X											
	1310	CV1344A-CS		C	X				X											
	1310	CV1344A-CSD		C	X				X											
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	
<i>[Signature]</i>		4-17-13	1000	<i>[Signature]</i>		4-18-13	1710	<i>[Signature]</i>				<i>[Signature]</i>				<i>[Signature]</i>				
RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	
<i>[Signature]</i>		4-18-13	0830	<i>[Signature]</i>				<i>[Signature]</i>				<i>[Signature]</i>				<i>[Signature]</i>				
LABORATORY USE ONLY																				
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE	TIME	CUSTODY INTACT YES ☐ NO ☐	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS 18 CU-07													

Serial Number 64608

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

☒ Alternate Laboratory Name/Location
Test Am Tampa

Phone:
Fax:

PROJECT REFERENCE 354th Ave Removal		PROJECT NO. 200548-1356	PROJECT LOCATION (STATE) AL	MATRIX TYPE	REQUIRED ANALYSIS										PAGE 3	OF 3		
(b) (6)				COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	STANDARD REPORT DELIVERY ☐ DATE DUE _____ EXPEDITED REPORT DELIVERY (SURCHARGE) ☐ 10 Calendar Day TAT DATE DUE _____									
				PRESERVATIVE										NUMBER OF COOLERS SUBMITTED PER SHIPMENT:				
COMPANY CONTRACTING THIS WORK (if applicable)				NUMBER OF CONTAINERS SUBMITTED												REMARKS		
SAMPLE		SAMPLE IDENTIFICATION																
DATE	TIME																	
4-16-13	1320	CV1344B-CS		C	X			X										
	1334	CV1344C-CS		C	X			X										
	1440	CV0313A-CS-SP		C	X			X										
	1500	CV0313B-CS-SP		C	X			X										
	1535	CV0423A-CS-SP		C	X			X										
	1550	CV0423B-CS-SP		C	X			X	X									
	1345	CV1013A-CS-SP		C	X			X										
	1400	CV1013B-CS-SP		C	X			X										
	0955	CV1282C-CS-SP (sieve)		C	X			X										
	1130	CV1016B-CS-SP (sieve)		C	X			X										
	1550	CV0423B-CS-SP (sieve)		C	X			X										
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME			
[Signature]		4-17-13	1000	[Signature]		4/18/13	1713											
RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME			
[Signature]		4-18-13	0830															
LABORATORY USE ONLY																		
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE	TIME	CUSTODY INTACT YES ☐ NO ☐	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS 1.8 CV07											

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89459-2

SDG Number: 68089459-2

Login Number: 89459

List Source: TestAmerica Savannah

List Number: 1

Creator: Daughtry, Beth

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89459-2

SDG Number: 68089459-2

Login Number: 89459

List Source: TestAmerica Tampa

List Number: 1

List Creation: 04/18/13 04:57 PM

Creator: Snead, Joshua

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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: 680-89459-2

TestAmerica Sample Delivery Group: 68089459-2

Client Project/Site: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC

1220 Kennestone Circle

Suite 106

Marietta, Georgia 30060

Attn: Ms. Limari F Krebs



Authorized for release by:

4/29/2013 4:34:14 PM

Bernard Kirkland

Project Manager I

bernard.kirkland@testamericainc.com

Designee for

Lisa Harvey

Project Manager II

lisa.harvey@testamericainc.com

LINKS

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results through

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Case Narrative

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

TestAmerica Job ID: 680-89459-2
SDG: 68089459-2

Job ID: 680-89459-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89459-2

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

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

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

RECEIPT

The samples were received on 04/18/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1219A-CSD (680-89459-21), CV1219B-CS (680-89459-22), CV1344A-CS (680-89459-23), CV1344A-CSD (680-89459-24), CV1344B-CS (680-89459-25), CV1344C-CS (680-89459-26), CV0313A-CS-SP (680-89459-27), CV0313B-CS-SP (680-89459-28), CV0423A-CS-SP (680-89459-29), CV0423B-CS-SP (680-89459-30), CV1013A-CS-SP (680-89459-31) and CV1013B-CS-SP (680-89459-32) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/19/2013 and 04/23/2013 and analyzed on 04/23/2013 and 04/24/2013.

Samples CV1344A-CS (680-89459-23)[4X], CV1344A-CSD (680-89459-24)[4X], CV1344B-CS (680-89459-25)[4X], CV1344C-CS (680-89459-26)[4X] and CV0313B-CS-SP (680-89459-28)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Benzo(a)pyrene recovered outside the recovery criteria for the MS of sample 680-89328-25 in batch 660-136756.

Several analytes recovered outside the recovery criteria high for the MSD of sample 680-89421-1 in batch 660-136792.

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: 680-89459-2
SDG: 68089459-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89459-21	CV1219A-CSD	Solid	04/16/13 13:50	04/18/13 08:30
680-89459-22	CV1219B-CS	Solid	04/16/13 14:00	04/18/13 08:30
680-89459-23	CV1344A-CS	Solid	04/16/13 13:10	04/18/13 08:30
680-89459-24	CV1344A-CSD	Solid	04/16/13 13:10	04/18/13 08:30
680-89459-25	CV1344B-CS	Solid	04/16/13 13:20	04/18/13 08:30
680-89459-26	CV1344C-CS	Solid	04/16/13 13:34	04/18/13 08:30
680-89459-27	CV0313A-CS-SP	Solid	04/16/13 14:40	04/18/13 08:30
680-89459-28	CV0313B-CS-SP	Solid	04/16/13 15:00	04/18/13 08:30
680-89459-29	CV0423A-CS-SP	Solid	04/16/13 15:35	04/18/13 08:30
680-89459-30	CV0423B-CS-SP	Solid	04/16/13 15:50	04/18/13 08:30
680-89459-31	CV1013A-CS-SP	Solid	04/16/13 13:45	04/18/13 08:30
680-89459-32	CV1013B-CS-SP	Solid	04/16/13 14:00	04/18/13 08:30

Method Summary

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

TestAmerica Job ID: 680-89459-2
SDG: 68089459-2

Method	Method Description	Protocol	Laboratory
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL TAM
Moisture	Percent Moisture	EPA	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Definitions/Glossary

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

TestAmerica Job ID: 680-89459-2
SDG: 68089459-2

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.

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: 680-89459-2
SDG: 68089459-2

Client Sample ID: CV1219A-CSD

Lab Sample ID: 680-89459-21

Date Collected: 04/16/13 13:50

Matrix: Solid

Date Received: 04/18/13 08:30

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	25	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Acenaphthylene	7.2	J	50	6.3	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Anthracene	38		11	5.3	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Benzo[a]anthracene	570		10	4.9	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Benzo[a]pyrene	1200		13	6.5	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Benzo[b]fluoranthene	1700		15	7.7	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Benzo[g,h,i]perylene	770		25	5.5	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Benzo[k]fluoranthene	620		10	4.5	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Chrysene	730		11	5.6	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Dibenz(a,h)anthracene	220		25	5.1	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Fluoranthene	440		25	5.0	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Fluorene	17	J	25	5.1	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Indeno[1,2,3-cd]pyrene	640		25	8.9	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
1-Methylnaphthalene	46	J	50	5.5	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
2-Methylnaphthalene	57		50	8.9	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Naphthalene	52		50	5.5	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Phenanthrene	180		10	4.9	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Pyrene	390		25	4.6	ug/Kg	☼	04/19/13 15:35	04/23/13 21:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	46		30 - 130				04/19/13 15:35	04/23/13 21:15	1

Client Sample ID: CV1219B-CS

Lab Sample ID: 680-89459-22

Date Collected: 04/16/13 14:00

Matrix: Solid

Date Received: 04/18/13 08:30

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	130	U	130	26	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Acenaphthylene	9.5	J	51	6.4	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Anthracene	27		11	5.4	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Benzo[a]anthracene	140		10	5.0	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Benzo[a]pyrene	200		13	6.6	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Benzo[b]fluoranthene	350		16	7.8	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Benzo[g,h,i]perylene	150		26	5.6	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Benzo[k]fluoranthene	110		10	4.6	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Chrysene	210		12	5.8	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Dibenz(a,h)anthracene	49		26	5.2	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Fluoranthene	170		26	5.1	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Fluorene	6.2	J	26	5.2	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Indeno[1,2,3-cd]pyrene	130		26	9.1	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
1-Methylnaphthalene	52		51	5.6	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
2-Methylnaphthalene	70		51	9.1	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Naphthalene	73		51	5.6	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Phenanthrene	100		10	5.0	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Pyrene	130		26	4.7	ug/Kg	☼	04/23/13 14:49	04/24/13 18:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	66		30 - 130				04/23/13 14:49	04/24/13 18:48	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-2
SDG: 68089459-2

Client Sample ID: CV1344A-CS

Lab Sample ID: 680-89459-23

Date Collected: 04/16/13 13:10

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Acenaphthylene	63	J	210	26	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Anthracene	99		44	22	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Benzo[a]anthracene	380		42	20	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Benzo[a]pyrene	230		55	27	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Benzo[b]fluoranthene	400		64	32	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Benzo[g,h,i]perylene	130		100	23	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Benzo[k]fluoranthene	150		42	19	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Chrysene	420		47	24	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Dibenz(a,h)anthracene	44	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Fluoranthene	550		100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Fluorene	26	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Indeno[1,2,3-cd]pyrene	110		100	37	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
1-Methylnaphthalene	240		210	23	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
2-Methylnaphthalene	94	J	210	37	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Naphthalene	71	J	210	23	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Phenanthrene	900		42	20	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Pyrene	440		100	19	ug/Kg	☼	04/19/13 15:35	04/23/13 21:38	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	54		30 - 130				04/19/13 15:35	04/23/13 21:38	4

Client Sample ID: CV1344A-CSD

Lab Sample ID: 680-89459-24

Date Collected: 04/16/13 13:10

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 76.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Acenaphthylene	51	J	210	26	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Anthracene	70		44	22	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Benzo[a]anthracene	260		42	20	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Benzo[a]pyrene	260		54	27	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Benzo[b]fluoranthene	480		63	32	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Benzo[g,h,i]perylene	180		100	23	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Benzo[k]fluoranthene	130		42	19	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Chrysene	380		47	23	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Dibenz(a,h)anthracene	58	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Fluoranthene	510		100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Fluorene	100	U	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Indeno[1,2,3-cd]pyrene	140		100	37	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
1-Methylnaphthalene	110	J	210	23	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
2-Methylnaphthalene	100	J	210	37	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Naphthalene	85	J	210	23	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Phenanthrene	310		42	20	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Pyrene	390		100	19	ug/Kg	☼	04/19/13 15:35	04/23/13 22:00	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	55		30 - 130				04/19/13 15:35	04/23/13 22:00	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-2
SDG: 68089459-2

Client Sample ID: CV1344B-CS

Lab Sample ID: 680-89459-25

Date Collected: 04/16/13 13:20

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Acenaphthylene	45	J	200	25	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Anthracene	110		41	21	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Benzo[a]anthracene	390		39	19	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Benzo[a]pyrene	370		51	25	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Benzo[b]fluoranthene	660		60	30	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Benzo[g,h,i]perylene	230		98	22	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Benzo[k]fluoranthene	220		39	18	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Chrysene	510		44	22	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Dibenz(a,h)anthracene	74	J	98	20	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Fluoranthene	700		98	20	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Fluorene	29	J	98	20	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Indeno[1,2,3-cd]pyrene	200		98	35	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
1-Methylnaphthalene	150	J	200	22	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
2-Methylnaphthalene	150	J	200	35	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Naphthalene	130	J	200	22	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Phenanthrene	460		39	19	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Pyrene	510		98	18	ug/Kg	☼	04/19/13 15:35	04/23/13 22:23	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	51		30 - 130				04/19/13 15:35	04/23/13 22:23	4

Client Sample ID: CV1344C-CS

Lab Sample ID: 680-89459-26

Date Collected: 04/16/13 13:34

Matrix: Solid

Date Received: 04/18/13 08:30

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	520	U	520	100	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Acenaphthylene	41	J	210	26	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Anthracene	110		43	22	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Benzo[a]anthracene	380		41	20	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Benzo[a]pyrene	340		54	27	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Benzo[b]fluoranthene	620		63	31	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Benzo[g,h,i]perylene	160		100	23	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Benzo[k]fluoranthene	190		41	19	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Chrysene	470		46	23	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Dibenz(a,h)anthracene	65	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Fluoranthene	740		100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Fluorene	38	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Indeno[1,2,3-cd]pyrene	150		100	37	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
1-Methylnaphthalene	130	J	210	23	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
2-Methylnaphthalene	130	J	210	37	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Naphthalene	100	J	210	23	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Phenanthrene	510		41	20	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Pyrene	500		100	19	ug/Kg	☼	04/19/13 15:35	04/23/13 22:45	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	38		30 - 130				04/19/13 15:35	04/23/13 22:45	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-2
SDG: 68089459-2

Client Sample ID: CV0313A-CS-SP

Lab Sample ID: 680-89459-27

Date Collected: 04/16/13 14:40

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Acenaphthylene	62		52	6.5	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Anthracene	89		11	5.5	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Benzo[a]anthracene	420		10	5.1	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Benzo[a]pyrene	540		14	6.8	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Benzo[b]fluoranthene	970		16	7.9	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Benzo[g,h,i]perylene	320		26	5.7	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Benzo[k]fluoranthene	330		10	4.7	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Chrysene	600		12	5.8	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Dibenz(a,h)anthracene	110		26	5.3	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Fluoranthene	680		26	5.2	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Fluorene	25	J	26	5.3	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Indeno[1,2,3-cd]pyrene	290		26	9.2	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
1-Methylnaphthalene	150		52	5.7	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
2-Methylnaphthalene	200		52	9.2	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Naphthalene	170		52	5.7	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Phenanthrene	410		10	5.1	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Pyrene	510		26	4.8	ug/Kg	☼	04/19/13 15:35	04/23/13 23:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	60		30 - 130				04/19/13 15:35	04/23/13 23:08	1

Client Sample ID: CV0313B-CS-SP

Lab Sample ID: 680-89459-28

Date Collected: 04/16/13 15:00

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 76.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Acenaphthylene	32	J	210	26	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Anthracene	54		44	22	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Benzo[a]anthracene	260		42	20	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Benzo[a]pyrene	280		54	27	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Benzo[b]fluoranthene	600		64	32	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Benzo[g,h,i]perylene	180		100	23	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Benzo[k]fluoranthene	160		42	19	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Chrysene	400		47	24	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Dibenz(a,h)anthracene	66	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Fluoranthene	420		100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Fluorene	21	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Indeno[1,2,3-cd]pyrene	160		100	37	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
1-Methylnaphthalene	130	J	210	23	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
2-Methylnaphthalene	250		210	37	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Naphthalene	240		210	23	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Phenanthrene	280		42	20	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Pyrene	270		100	19	ug/Kg	☼	04/19/13 15:35	04/23/13 23:30	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	52		30 - 130				04/19/13 15:35	04/23/13 23:30	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-2
SDG: 68089459-2

Client Sample ID: CV0423A-CS-SP

Lab Sample ID: 680-89459-29

Date Collected: 04/16/13 15:35

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Acenaphthylene	18	J	51	6.4	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Anthracene	33		11	5.4	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Benzo[a]anthracene	120		10	5.0	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Benzo[a]pyrene	120		13	6.6	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Benzo[b]fluoranthene	210		16	7.8	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Benzo[g,h,i]perylene	61		26	5.6	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Benzo[k]fluoranthene	72		10	4.6	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Chrysene	170		11	5.7	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Dibenz(a,h)anthracene	25	J	26	5.2	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Fluoranthene	190		26	5.1	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Fluorene	8.3	J	26	5.2	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Indeno[1,2,3-cd]pyrene	55		26	9.1	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
1-Methylnaphthalene	69		51	5.6	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
2-Methylnaphthalene	85		51	9.1	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Naphthalene	68		51	5.6	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Phenanthrene	150		10	5.0	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Pyrene	140		26	4.7	ug/Kg	☼	04/19/13 15:35	04/23/13 23:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	42		30 - 130				04/19/13 15:35	04/23/13 23:53	1

Client Sample ID: CV0423B-CS-SP

Lab Sample ID: 680-89459-30

Date Collected: 04/16/13 15:50

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 75.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Acenaphthylene	75		52	6.5	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Anthracene	89		11	5.5	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Benzo[a]anthracene	370		10	5.1	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Benzo[a]pyrene	400		14	6.8	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Benzo[b]fluoranthene	770		16	8.0	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Benzo[g,h,i]perylene	230		26	5.8	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Benzo[k]fluoranthene	280		10	4.7	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Chrysene	480		12	5.9	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Dibenz(a,h)anthracene	69		26	5.4	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Fluoranthene	810		26	5.2	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Fluorene	23	J	26	5.4	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Indeno[1,2,3-cd]pyrene	210		26	9.3	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
1-Methylnaphthalene	150		52	5.8	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
2-Methylnaphthalene	140		52	9.3	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Naphthalene	140		52	5.8	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Phenanthrene	420		10	5.1	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Pyrene	540		26	4.8	ug/Kg	☼	04/19/13 15:35	04/24/13 00:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	54		30 - 130				04/19/13 15:35	04/24/13 00:16	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-2
SDG: 68089459-2

Client Sample ID: CV1013A-CS-SP

Lab Sample ID: 680-89459-31

Date Collected: 04/16/13 13:45

Matrix: Solid

Date Received: 04/18/13 08:30

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	26	J	120	25	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Acenaphthylene	61		49	6.1	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Anthracene	48		10	5.2	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Benzo[a]anthracene	160		9.8	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Benzo[a]pyrene	160		13	6.4	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Benzo[b]fluoranthene	290		15	7.5	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Benzo[g,h,i]perylene	110		25	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Benzo[k]fluoranthene	130		9.8	4.4	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Chrysene	190		11	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Dibenz(a,h)anthracene	44		25	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Fluoranthene	270		25	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Fluorene	25	U	25	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Indeno[1,2,3-cd]pyrene	160		25	8.7	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
1-Methylnaphthalene	67		49	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
2-Methylnaphthalene	140		49	8.7	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Naphthalene	82		49	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Phenanthrene	180		9.8	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Pyrene	240		25	4.5	ug/Kg	☼	04/23/13 10:36	04/24/13 18:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	61		30 - 130				04/23/13 10:36	04/24/13 18:11	1

Client Sample ID: CV1013B-CS-SP

Lab Sample ID: 680-89459-32

Date Collected: 04/16/13 14:00

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 74.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	55	J	140	27	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Acenaphthylene	69		54	6.8	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Anthracene	89		11	5.7	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Benzo[a]anthracene	1100		11	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Benzo[a]pyrene	1400		14	7.0	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Benzo[b]fluoranthene	2900		17	8.3	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Benzo[g,h,i]perylene	1600		27	6.0	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Benzo[k]fluoranthene	930		11	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Chrysene	1300		12	6.1	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Dibenz(a,h)anthracene	550		27	5.6	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Fluoranthene	1100		27	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Fluorene	52		27	5.6	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Indeno[1,2,3-cd]pyrene	1100		27	9.6	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
1-Methylnaphthalene	56		54	6.0	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
2-Methylnaphthalene	110		54	9.6	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Naphthalene	83		54	6.0	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Phenanthrene	590		11	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Pyrene	1100		27	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	65		30 - 130				04/23/13 10:36	04/24/13 18:29	1

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-89459-2
SDG: 68089459-2

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

Lab Sample ID: MB 660-136660/1-A

Matrix: Solid

Analysis Batch: 136756

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 136660

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Acenaphthylene	40	U	40	5.0	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Fluorene	20	U	20	4.1	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Naphthalene	40	U	40	4.4	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Pyrene	20	U	20	3.7	ug/Kg		04/19/13 15:35	04/23/13 15:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	64		30 - 130	04/19/13 15:35	04/23/13 15:37	1

Lab Sample ID: LCS 660-136660/2-A

Matrix: Solid

Analysis Batch: 136756

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 136660

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	653	327		ug/Kg		50	39 - 130
Acenaphthylene	653	342		ug/Kg		52	38 - 130
Anthracene	653	420		ug/Kg		64	37 - 130
Benzo[a]anthracene	653	459		ug/Kg		70	40 - 130
Benzo[a]pyrene	653	419		ug/Kg		64	49 - 130
Benzo[b]fluoranthene	653	469		ug/Kg		72	37 - 130
Benzo[g,h,i]perylene	653	529		ug/Kg		81	32 - 130
Benzo[k]fluoranthene	653	444		ug/Kg		68	32 - 130
Chrysene	653	445		ug/Kg		68	41 - 130
Dibenz(a,h)anthracene	653	528		ug/Kg		81	27 - 130
Fluoranthene	653	453		ug/Kg		69	40 - 130
Fluorene	653	382		ug/Kg		59	40 - 130
Indeno[1,2,3-cd]pyrene	653	514		ug/Kg		79	30 - 130
1-Methylnaphthalene	653	279		ug/Kg		43	31 - 130
2-Methylnaphthalene	653	272		ug/Kg		42	33 - 130
Naphthalene	653	245		ug/Kg		38	36 - 130
Phenanthrene	653	420		ug/Kg		64	42 - 130
Pyrene	653	445		ug/Kg		68	44 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-89459-2
SDG: 68089459-2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 660-136660/2-A
Matrix: Solid
Analysis Batch: 136756

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136660

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	64		30 - 130

Lab Sample ID: MB 660-136731/1-A
Matrix: Solid
Analysis Batch: 136792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136731

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Acenaphthylene	40	U	40	5.0	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Fluorene	20	U	20	4.1	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Naphthalene	40	U	40	4.4	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Pyrene	20	U	20	3.7	ug/Kg		04/23/13 10:36	04/24/13 16:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	82		30 - 130	04/23/13 10:36	04/24/13 16:40	1

Lab Sample ID: LCS 660-136731/2-A
Matrix: Solid
Analysis Batch: 136792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136731

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	668	523		ug/Kg		78	39 - 130
Acenaphthylene	668	506		ug/Kg		76	38 - 130
Anthracene	668	577		ug/Kg		86	37 - 130
Benzo[a]anthracene	668	787		ug/Kg		118	40 - 130
Benzo[a]pyrene	668	499		ug/Kg		75	49 - 130
Benzo[b]fluoranthene	668	562		ug/Kg		84	37 - 130
Benzo[g,h,i]perylene	668	542		ug/Kg		81	32 - 130
Benzo[k]fluoranthene	668	662		ug/Kg		99	32 - 130
Chrysene	668	567		ug/Kg		85	41 - 130
Dibenz(a,h)anthracene	668	631		ug/Kg		94	27 - 130
Fluoranthene	668	617		ug/Kg		92	40 - 130
Fluorene	668	597		ug/Kg		89	40 - 130
Indeno[1,2,3-cd]pyrene	668	574		ug/Kg		86	30 - 130
1-Methylnaphthalene	668	546		ug/Kg		82	31 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-89459-2
SDG: 68089459-2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 660-136731/2-A

Matrix: Solid

Analysis Batch: 136792

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 136731

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	668	521		ug/Kg		78	33 - 130
Naphthalene	668	612		ug/Kg		91	36 - 130
Phenanthrene	668	653		ug/Kg		98	42 - 130
Pyrene	668	571		ug/Kg		85	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	83		30 - 130

Lab Sample ID: MB 660-136752/1-A

Matrix: Solid

Analysis Batch: 136826

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 136752

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	98	U	98	20	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Acenaphthylene	39	U	39	4.9	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Anthracene	8.2	U	8.2	4.1	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Benzo[a]anthracene	7.8	U	7.8	3.8	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Benzo[b]fluoranthene	12	U	12	6.0	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Benzo[g,h,i]perylene	20	U	20	4.3	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Benzo[k]fluoranthene	7.8	U	7.8	3.5	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Chrysene	8.8	U	8.8	4.4	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Dibenz[a,h]anthracene	20	U	20	4.0	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Fluoranthene	20	U	20	3.9	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Fluorene	20	U	20	4.0	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.0	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
1-Methylnaphthalene	39	U	39	4.3	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
2-Methylnaphthalene	39	U	39	7.0	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Naphthalene	39	U	39	4.3	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Phenanthrene	7.8	U	7.8	3.8	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Pyrene	20	U	20	3.6	ug/Kg		04/23/13 14:49	04/24/13 16:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	62		30 - 130	04/23/13 14:49	04/24/13 16:55	1

Lab Sample ID: LCS 660-136752/2-A

Matrix: Solid

Analysis Batch: 136826

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 136752

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	657	486		ug/Kg		74	39 - 130
Acenaphthylene	657	507		ug/Kg		77	38 - 130
Anthracene	657	496		ug/Kg		75	37 - 130
Benzo[a]anthracene	657	547		ug/Kg		83	40 - 130
Benzo[a]pyrene	657	494		ug/Kg		75	49 - 130
Benzo[b]fluoranthene	657	577		ug/Kg		88	37 - 130
Benzo[g,h,i]perylene	657	548		ug/Kg		83	32 - 130
Benzo[k]fluoranthene	657	542		ug/Kg		83	32 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-89459-2
SDG: 68089459-2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 660-136752/2-A

Matrix: Solid

Analysis Batch: 136826

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 136752

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	657	513		ug/Kg		78	41 - 130
Dibenz(a,h)anthracene	657	574		ug/Kg		87	27 - 130
Fluoranthene	657	534		ug/Kg		81	40 - 130
Fluorene	657	528		ug/Kg		80	40 - 130
Indeno[1,2,3-cd]pyrene	657	535		ug/Kg		81	30 - 130
1-Methylnaphthalene	657	503		ug/Kg		77	31 - 130
2-Methylnaphthalene	657	498		ug/Kg		76	33 - 130
Naphthalene	657	478		ug/Kg		73	36 - 130
Phenanthrene	657	485		ug/Kg		74	42 - 130
Pyrene	657	518		ug/Kg		79	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	75		30 - 130

Lab Sample ID: 680-89459-22 MS

Matrix: Solid

Analysis Batch: 136826

Client Sample ID: CV1219B-CS

Prep Type: Total/NA

Prep Batch: 136752

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	130	U	852	531		ug/Kg	✱	62	39 - 130
Acenaphthylene	9.5	J	852	558		ug/Kg	✱	64	38 - 130
Anthracene	27		852	578		ug/Kg	✱	65	37 - 130
Benzo[a]anthracene	140		852	706		ug/Kg	✱	67	40 - 130
Benzo[a]pyrene	200		852	697		ug/Kg	✱	58	49 - 130
Benzo[b]fluoranthene	350		852	906		ug/Kg	✱	65	37 - 130
Benzo[g,h,i]perylene	150		852	530		ug/Kg	✱	45	32 - 130
Benzo[k]fluoranthene	110		852	721		ug/Kg	✱	71	32 - 130
Chrysene	210		852	733		ug/Kg	✱	61	41 - 130
Dibenz(a,h)anthracene	49		852	551		ug/Kg	✱	59	27 - 130
Fluoranthene	170		852	751		ug/Kg	✱	69	40 - 130
Fluorene	6.2	J	852	584		ug/Kg	✱	68	40 - 130
Indeno[1,2,3-cd]pyrene	130		852	561		ug/Kg	✱	50	30 - 130
1-Methylnaphthalene	52		852	605		ug/Kg	✱	65	31 - 130
2-Methylnaphthalene	70		852	618		ug/Kg	✱	64	33 - 130
Naphthalene	73		852	589		ug/Kg	✱	60	36 - 130
Phenanthrene	100		852	650		ug/Kg	✱	64	42 - 130
Pyrene	130		852	637		ug/Kg	✱	59	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
<i>o</i> -Terphenyl	64		30 - 130

Lab Sample ID: 680-89459-22 MSD

Matrix: Solid

Analysis Batch: 136826

Client Sample ID: CV1219B-CS

Prep Type: Total/NA

Prep Batch: 136752

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Acenaphthene	130	U	852	624		ug/Kg	✱	73	39 - 130	16	40
Acenaphthylene	9.5	J	852	666		ug/Kg	✱	77	38 - 130	18	40

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-89459-2
SDG: 68089459-2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 680-89459-22 MSD

Matrix: Solid

Analysis Batch: 136826

Client Sample ID: CV1219B-CS

Prep Type: Total/NA

Prep Batch: 136752

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	27		852	691		ug/Kg	✱	78	37 - 130	18	40
Benzo[a]anthracene	140		852	855		ug/Kg	✱	84	40 - 130	19	40
Benzo[a]pyrene	200		852	827		ug/Kg	✱	74	49 - 130	17	40
Benzo[b]fluoranthene	350		852	1150		ug/Kg	✱	94	37 - 130	24	40
Benzo[g,h,i]perylene	150		852	619		ug/Kg	✱	55	32 - 130	16	40
Benzo[k]fluoranthene	110		852	835		ug/Kg	✱	85	32 - 130	15	40
Chrysene	210		852	833		ug/Kg	✱	73	41 - 130	13	40
Dibenz(a,h)anthracene	49		852	638		ug/Kg	✱	69	27 - 130	15	40
Fluoranthene	170		852	883		ug/Kg	✱	84	40 - 130	16	40
Fluorene	6.2	J	852	682		ug/Kg	✱	79	40 - 130	15	40
Indeno[1,2,3-cd]pyrene	130		852	647		ug/Kg	✱	60	30 - 130	14	40
1-Methylnaphthalene	52		852	708		ug/Kg	✱	77	31 - 130	16	40
2-Methylnaphthalene	70		852	705		ug/Kg	✱	75	33 - 130	13	40
Naphthalene	73		852	690		ug/Kg	✱	72	36 - 130	16	40
Phenanthrene	100		852	759		ug/Kg	✱	77	42 - 130	15	40
Pyrene	130		852	734		ug/Kg	✱	70	44 - 130	14	40

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	76		30 - 130

QC Association Summary

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

TestAmerica Job ID: 680-89459-2
SDG: 68089459-2

GC/MS Semi VOA

Prep Batch: 136660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89459-21	CV1219A-CSD	Total/NA	Solid	3546	
680-89459-23	CV1344A-CS	Total/NA	Solid	3546	
680-89459-24	CV1344A-CSD	Total/NA	Solid	3546	
680-89459-25	CV1344B-CS	Total/NA	Solid	3546	
680-89459-26	CV1344C-CS	Total/NA	Solid	3546	
680-89459-27	CV0313A-CS-SP	Total/NA	Solid	3546	
680-89459-28	CV0313B-CS-SP	Total/NA	Solid	3546	
680-89459-29	CV0423A-CS-SP	Total/NA	Solid	3546	
680-89459-30	CV0423B-CS-SP	Total/NA	Solid	3546	
LCS 660-136660/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136660/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 136731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89459-31	CV1013A-CS-SP	Total/NA	Solid	3546	
680-89459-32	CV1013B-CS-SP	Total/NA	Solid	3546	
LCS 660-136731/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136731/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 136752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89459-22	CV1219B-CS	Total/NA	Solid	3546	
680-89459-22 MS	CV1219B-CS	Total/NA	Solid	3546	
680-89459-22 MSD	CV1219B-CS	Total/NA	Solid	3546	
LCS 660-136752/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136752/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 136756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89459-21	CV1219A-CSD	Total/NA	Solid	8270C LL	136660
680-89459-23	CV1344A-CS	Total/NA	Solid	8270C LL	136660
680-89459-24	CV1344A-CSD	Total/NA	Solid	8270C LL	136660
680-89459-25	CV1344B-CS	Total/NA	Solid	8270C LL	136660
680-89459-26	CV1344C-CS	Total/NA	Solid	8270C LL	136660
680-89459-27	CV0313A-CS-SP	Total/NA	Solid	8270C LL	136660
680-89459-28	CV0313B-CS-SP	Total/NA	Solid	8270C LL	136660
680-89459-29	CV0423A-CS-SP	Total/NA	Solid	8270C LL	136660
680-89459-30	CV0423B-CS-SP	Total/NA	Solid	8270C LL	136660
LCS 660-136660/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136660
MB 660-136660/1-A	Method Blank	Total/NA	Solid	8270C LL	136660

Analysis Batch: 136792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89459-31	CV1013A-CS-SP	Total/NA	Solid	8270C LL	136731
680-89459-32	CV1013B-CS-SP	Total/NA	Solid	8270C LL	136731
LCS 660-136731/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136731
MB 660-136731/1-A	Method Blank	Total/NA	Solid	8270C LL	136731

Analysis Batch: 136826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89459-22	CV1219B-CS	Total/NA	Solid	8270C LL	136752

TestAmerica Savannah

QC Association Summary

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

TestAmerica Job ID: 680-89459-2
SDG: 68089459-2

GC/MS Semi VOA (Continued)

Analysis Batch: 136826 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89459-22 MS	CV1219B-CS	Total/NA	Solid	8270C LL	136752
680-89459-22 MSD	CV1219B-CS	Total/NA	Solid	8270C LL	136752
LCS 660-136752/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136752
MB 660-136752/1-A	Method Blank	Total/NA	Solid	8270C LL	136752

General Chemistry

Analysis Batch: 136617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89459-21	CV1219A-CSD	Total/NA	Solid	Moisture	
680-89459-22	CV1219B-CS	Total/NA	Solid	Moisture	
680-89459-22 MS	CV1219B-CS	Total/NA	Solid	Moisture	
680-89459-22 MSD	CV1219B-CS	Total/NA	Solid	Moisture	
680-89459-23	CV1344A-CS	Total/NA	Solid	Moisture	
680-89459-24	CV1344A-CSD	Total/NA	Solid	Moisture	
680-89459-25	CV1344B-CS	Total/NA	Solid	Moisture	
680-89459-26	CV1344C-CS	Total/NA	Solid	Moisture	
680-89459-27	CV0313A-CS-SP	Total/NA	Solid	Moisture	
680-89459-28	CV0313B-CS-SP	Total/NA	Solid	Moisture	
680-89459-29	CV0423A-CS-SP	Total/NA	Solid	Moisture	
680-89459-30	CV0423B-CS-SP	Total/NA	Solid	Moisture	
680-89459-31	CV1013A-CS-SP	Total/NA	Solid	Moisture	
680-89459-32	CV1013B-CS-SP	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-89459-2
SDG: 68089459-2

Client Sample ID: CV1219A-CSD

Lab Sample ID: 680-89459-21

Date Collected: 04/16/13 13:50

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136660	04/19/13 15:35	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136756	04/23/13 21:15	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

Client Sample ID: CV1219B-CS

Lab Sample ID: 680-89459-22

Date Collected: 04/16/13 14:00

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 76.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136752	04/23/13 14:49	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136826	04/24/13 18:48	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

Client Sample ID: CV1344A-CS

Lab Sample ID: 680-89459-23

Date Collected: 04/16/13 13:10

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136660	04/19/13 15:35	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136756	04/23/13 21:38	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

Client Sample ID: CV1344A-CSD

Lab Sample ID: 680-89459-24

Date Collected: 04/16/13 13:10

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 76.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136660	04/19/13 15:35	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136756	04/23/13 22:00	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

Client Sample ID: CV1344B-CS

Lab Sample ID: 680-89459-25

Date Collected: 04/16/13 13:20

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136660	04/19/13 15:35	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136756	04/23/13 22:23	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

TestAmerica Savannah

Lab Chronicle

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

TestAmerica Job ID: 680-89459-2
SDG: 68089459-2

Client Sample ID: CV1344C-CS

Lab Sample ID: 680-89459-26

Date Collected: 04/16/13 13:34

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136660	04/19/13 15:35	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136756	04/23/13 22:45	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

Client Sample ID: CV0313A-CS-SP

Lab Sample ID: 680-89459-27

Date Collected: 04/16/13 14:40

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136660	04/19/13 15:35	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136756	04/23/13 23:08	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

Client Sample ID: CV0313B-CS-SP

Lab Sample ID: 680-89459-28

Date Collected: 04/16/13 15:00

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 76.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136660	04/19/13 15:35	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136756	04/23/13 23:30	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

Client Sample ID: CV0423A-CS-SP

Lab Sample ID: 680-89459-29

Date Collected: 04/16/13 15:35

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136660	04/19/13 15:35	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136756	04/23/13 23:53	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

Client Sample ID: CV0423B-CS-SP

Lab Sample ID: 680-89459-30

Date Collected: 04/16/13 15:50

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 75.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136660	04/19/13 15:35	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136756	04/24/13 00:16	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

TestAmerica Savannah

Lab Chronicle

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

TestAmerica Job ID: 680-89459-2
SDG: 68089459-2

Client Sample ID: CV1013A-CS-SP

Lab Sample ID: 680-89459-31

Date Collected: 04/16/13 13:45

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136731	04/23/13 10:36	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136792	04/24/13 18:11	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

Client Sample ID: CV1013B-CS-SP

Lab Sample ID: 680-89459-32

Date Collected: 04/16/13 14:00

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 74.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136731	04/23/13 10:36	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136792	04/24/13 18:29	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Serial Number 64607

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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Savannah, GA 31404

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☒ Alternate Laboratory Name/Location
Test Am. Tampa

Phone:
Fax:

PROJECT REFERENCE 35th Ave. Removal		PROJECT NO. 2005198-1356	PROJECT LOCATION (STATE) FL	MATRIX TYPE	REQUIRED ANALYSIS										PAGE 2 OF 3			
(b) (6)				COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	STANDARD REPORT DELIVERY ☐ DATE DUE _____ EXPEDITED REPORT DELIVERY (SURCHARGE) ☐ DATE DUE _____ PRESERVATIVE NUMBER OF COOLERS SUBMITTED PER SHIPMENT:									
COMPANY CONTRACTING THIS WORK (if applicable)				NUMBER OF CONTAINERS SUBMITTED										REMARKS				
SAMPLE		SAMPLE IDENTIFICATION																
DATE	TIME																	
4-16-13	1045	CV1225A-CS-SP		C	X			X										
	0930	CV1282A-CS-SP		C	X			X										
	0940	CV1282B-CS-SP		C	X			X										
	0955	CV1282C-CS-SP		C	X			X	X									
	1005	CV1282D-CS-SP		C	X			X										
	1415	CV1217A-CS		C	X			X										
	1425	CV1217B-CS		C	X			X										
	1350	CV1219A-CS		C	X			X										
	1350	CV1219A-CSD		C	X			X										
	1400	CV1219B-CS		C	X			X										
	1310	CV1344A-CS		C	X			X										
	1310	CV1344A-CSD		C	X			X										
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME							
[Signature]		4-17-13	1000	[Signature]		4/18/13	1710											
RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME							
[Signature]		4-18-13	0830															
LABORATORY USE ONLY																		
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE	TIME	CUSTODY INTACT YES ☐ NO ☐	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS 18 CV-07											

Serial Number 64608

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

☒ Alternate Laboratory Name/Location
Test Am Tampa

Phone:
Fax:

PROJECT REFERENCE 354th Ave Removal		PROJECT NO. 2005148-1356	PROJECT LOCATION (STATE) AL	MATRIX TYPE	REQUIRED ANALYSIS										PAGE 3	OF 3		
(b) (6)				COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LLPAH REDA 8 Metals	PRESERVATIVE										STANDARD REPORT DELIVERY ☐	
																	DATE DUE _____	
COMPANY CONTRACTING THIS WORK (if applicable)																	EXPEDITED REPORT DELIVERY (SURCHARGE) ☐ 10 Calendar Day TAT DATE DUE _____	
																	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	
SAMPLE		SAMPLE IDENTIFICATION			NUMBER OF CONTAINERS SUBMITTED										REMARKS			
DATE	TIME																	
4-16-13	1320	CV1344B-CS			C	X		X										
	1334	CV1344C-CS			C	X		X										
	1440	CV0313A-CS-SP			C	X		X										
	1500	CV0313B-CS-SP			C	X		X										
	1535	CV0423A-CS-SP			C	X		X										
	1550	CV0423B-CS-SP			C	X		X	X									
	1345	CV1013A-CS-SP			C	X		X										
	1400	CV1013B-CS-SP			C	X		X										
	0955	CV1282C-CS-SP (sieve)			C	X			X									
	1130	CV1016B-CS-SP (sieve)			C	X			X									
	1550	CV0423B-CS-SP (sieve)			C	X			X									
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME			
[Signature]		4-17-13	1000	[Signature]		4/18/13	1713											
RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME			
[Signature]		4-18-13	0830															
LABORATORY USE ONLY																		
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE	TIME	CUSTODY INTACT YES ☐ NO ☐		CUSTODY SEAL NO.		SAVANNAH LOG NO.		LABORATORY REMARKS 1.8 Cu07								

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89459-2

SDG Number: 68089459-2

Login Number: 89459

List Source: TestAmerica Savannah

List Number: 1

Creator: Daughtry, Beth

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89459-2

SDG Number: 68089459-2

Login Number: 89459

List Number: 1

Creator: Snead, Joshua

List Source: TestAmerica Tampa

List Creation: 04/18/13 04:57 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

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

TestAmerica Job ID: 680-89459-2
SDG: 68089459-2

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	05-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12 *
Kentucky (UST)	State Program	4	18	03-31-13 *
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAP	4	E84282	06-30-13
Georgia	State Program	4	905	06-30-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Savannah

Certification Summary

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

TestAmerica Job ID: 680-89459-2
SDG: 68089459-2

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
USDA	Federal		P330-11-00177	04-20-14