

**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 / Martha Meyers-Lee, URS Group

Project No: 15268508.20000
 Job ID.: 680-89328-2
 Associated Samples: Refer to **Attachment A** (Sample Summary)
 Samples Collected: 04/11/2013 & 04/12/2013
 Date: 05/06/2013
 Date: 05/08/2013

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 04113-RB-Bowls + Spoons (680-89275-1).	

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, 04113-RB-Bowls + Spoons (680-89275-1), was collected during the week of 4/08/13. The rinsate blank was analyzed for PAHs under Test America Job ID 680-89275-1.	
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?	✓			CV0695A-CSD (680-89328-28) is a field duplicate of CV0695A-CS (680-89328-27).	
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? <ul style="list-style-type: none"> 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. 	✓			<ul style="list-style-type: none"> Instrument ID: BSMD5973 Initial Calibration: 04/04/2013 ICV: 04/04/13 @ 16:27 CCV: 04/22/13 @ 10:43 CCV: 04/23/13 @ 13:06 	
19. Were calibration results within laboratory/project specifications? <ul style="list-style-type: none"> 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)): <ul style="list-style-type: none"> 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 ≥ 0.050 (≥ 0.010 for poor performers)): 		✓		ICV of 04/04/13 @ 16:27, instrument BSMD5973: Benzo[a]pyrene @ -23.7 %D (Lab: ≤ 35.0 , Project: ≤ 20). A negative bias is indicated by the ICV percent difference; therefore, the benzo[a]pyrene sample result is estimated (J) in all samples.	J

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> ○ 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 					
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R >Upper Control Limit (UCL) and J/R-flag results when %R <Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			<ul style="list-style-type: none"> • Prep Batch 136660: 680-89238-25 (CV1350A-CS), MS/MSD • Prep Batch 136604: 680-89275-21 (CV0661A-CS-SP), MS/MSD. Lab sample 680-89275-21 is a project-specific sample (CV0661A-CS-SP) that was selected by TestAmerica for the PAH MS and MSD analyses, and the results were reported under Job ID 680-89275-2. 	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples are evaluated that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> • 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 		✓		CV1350A-CS (680-89238-25): Benzo[a]pyrene @ 44 and 60 %R (49-130). Qualification of data not required ³ .	
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> <ul style="list-style-type: none"> • If the native sample concentration > 4x spiking level, then an 	✓				

³ The recovery of either the MS or MSD met control limits.

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
evaluation of interference is not possible. <ul style="list-style-type: none"> If %RPD > UCL, J-flag positive result and UJ-flag non-detect result. 					
27. Were surrogate recoveries within lab/project specifications? <ul style="list-style-type: none"> 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? <ul style="list-style-type: none"> 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 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)	
<p>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.</p>					

Data Validation Checklist (Continued)

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: 680-89328-2
SDG: 68089328-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89328-21	CV1216A-CS	Solid	04/11/13 13:10	04/13/13 09:27
680-89328-22	CV1216B-CS	Solid	04/11/13 13:20	04/13/13 09:27
680-89328-23	CV1335A-CS	Solid	04/11/13 13:40	04/13/13 09:27
680-89328-24	CV1335B-CS	Solid	04/11/13 13:50	04/13/13 09:27
680-89328-25	CV1350A-CS	Solid	04/11/13 14:10	04/13/13 09:27
680-89328-26	CV1350B-CS	Solid	04/11/13 14:20	04/13/13 09:27
680-89328-27	CV0695A-CS	Solid	04/12/13 08:40	04/13/13 09:27
680-89328-28	CV0695A-CSD	Solid	04/12/13 08:40	04/13/13 09:27
680-89328-29	CV0695B-CS	Solid	04/12/13 08:50	04/13/13 09:27
680-89328-30	CV0676A-CS-SP	Solid	04/12/13 09:05	04/13/13 09:27
680-89328-31	CV0676B-CS-SP	Solid	04/12/13 08:48	04/13/13 09:27
680-89328-32	CV0676C-CS-SP	Solid	04/12/13 09:18	04/13/13 09:27

ATTACHMENT B
FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results

Analyte	CV0695A-CS 680-89328-27	RL	CV0695A-CSD 680-89328-28	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	8.8	J 50	7.0	J 51	µg/kg	252.5	NA	1.8	101	None, absolute difference ≤ 2x Avg RL
Anthracene	20	11	11	11	µg/kg	55	NA	9	22	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	85	10	46	10	µg/kg	50	NA	39	20	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(a)pyrene	77	13	46	13	µg/kg	65	NA	31	26	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(b)fluoranthene	160	15	98	15	µg/kg	75	48	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	42	25	29	25	µg/kg	125	NA	13	50	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	46	10	31	10	µg/kg	50	NA	15	20	None, absolute difference ≤ 2x Avg RL
Chrysene	140	11	89	11	µg/kg	55	45	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	17	J 25	12	J 25	µg/kg	125	NA	5	50	None, absolute difference ≤ 2x Avg RL
Fluoranthene	160	25	79	25	µg/kg	125	NA	81	50	J/UJ-flag, absolute difference > 2x Avg RL
Fluorene	9.3	J 25	10	J 25	µg/kg	125	NA	0.7	50	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	39	25	20	J 25	µg/kg	125	NA	19	50	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	49	J 50	50	J 51	µg/kg	252.5	NA	1	101	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	60	50	65	51	µg/kg	252.5	NA	5	101	None, absolute difference ≤ 2x Avg RL
Naphthalene	46	J 50	52	51	µg/kg	252.5	NA	6	101	None, absolute difference ≤ 2x Avg RL
Phenanthrene	140	10	89	10	µg/kg	50	45	NA	NA	None, RPD ≤ 50%
Pyrene	110	25	50	25	µg/kg	125	NA	60	50	J/UJ-flag, absolute difference > 2x Avg RL

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

µg/kg - micrograms per kilogram

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: 680-89328-2
SDG: 68089328-2

Job ID: 680-89328-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89328-2

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 04/13/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.4 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1216A-CS (680-89328-21), CV1216B-CS (680-89328-22), CV1335A-CS (680-89328-23), CV1335B-CS (680-89328-24), CV1350A-CS (680-89328-25), CV1350B-CS (680-89328-26), CV0695A-CS (680-89328-27), CV0695A-CSD (680-89328-28), CV0695B-CS (680-89328-29), CV0676A-CS-SP (680-89328-30), CV0676B-CS-SP (680-89328-31) and CV0676C-CS-SP (680-89328-32) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/18/2013 and 04/19/2013 and analyzed on 04/22/2013 and 04/23/2013.

Samples CV1335B-CS (680-89328-24)[4X] and CV1350A-CS (680-89328-25)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Fluoranthene recovered outside the recovery criteria for the MSD of sample 680-89275-21 in batch 660-136733.

Benzo[a]pyrene recovered outside the recovery criteria for the MS of sample CV1350A-CS (680-89328-25) in batch 660-136756.

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: 680-89328-2
 SDG: 68089328-2

Client Sample ID: CV1216A-CS

Lab Sample ID: 680-89328-21

Date Collected: 04/11/13 13:10

Matrix: Solid

Date Received: 04/13/13 09:27

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	☼	04/18/13 15:43	04/22/13 16:23	1
Acenaphthylene	78		51	6.4	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Anthracene	120		11	5.4	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Benzo[a]anthracene	410		10	5.0	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Benzo[a]pyrene	450	J	13	6.7	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Benzo[b]fluoranthene	800		16	7.8	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Benzo[g,h,i]perylene	220		26	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Benzo[k]fluoranthene	280		10	4.6	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Chrysene	490		12	5.8	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Dibenz(a,h)anthracene	81		26	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Fluoranthene	820		26	5.1	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Fluorene	18	J	26	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Indeno[1,2,3-cd]pyrene	190		26	9.1	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
1-Methylnaphthalene	64		51	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
2-Methylnaphthalene	77		51	9.1	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Naphthalene	75		51	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Phenanthrene	370		10	5.0	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Pyrene	530		26	4.7	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	66		30 - 130	04/18/13 15:43	04/22/13 16:23	1

Client Sample ID: CV1216B-CS

Lab Sample ID: 680-89328-22

Date Collected: 04/11/13 13:20

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Acenaphthylene	18	J	52	6.4	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Anthracene	59		11	5.4	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Benzo[a]anthracene	350		10	5.0	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Benzo[a]pyrene	520	J	13	6.7	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Benzo[b]fluoranthene	910		16	7.9	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Benzo[g,h,i]perylene	300		26	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Benzo[k]fluoranthene	330		10	4.6	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Chrysene	470		12	5.8	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Dibenz(a,h)anthracene	110		26	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Fluoranthene	440		26	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Fluorene	21	J	26	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Indeno[1,2,3-cd]pyrene	290		26	9.2	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
1-Methylnaphthalene	38	J	52	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
2-Methylnaphthalene	53		52	9.2	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Naphthalene	64		52	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Phenanthrene	210		10	5.0	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Pyrene	330		26	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	70		30 - 130	04/18/13 15:43	04/22/13 16:46	1

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

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89328-2
 SDG: 68089328-2

Client Sample ID: CV1335A-CS

Lab Sample ID: 680-89328-23

Date Collected: 04/11/13 13:40

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	28	J	130	26	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Acenaphthylene	67		52	6.4	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Anthracene	100		11	5.4	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Benzo[a]anthracene	920		10	5.0	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Benzo[a]pyrene	1400	J	13	6.7	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Benzo[b]fluoranthene	2900		16	7.9	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Benzo[g,h,i]perylene	850		26	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Benzo[k]fluoranthene	900		10	4.6	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Chrysene	1100		12	5.8	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Dibenz(a,h)anthracene	370		26	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Fluoranthene	1200		26	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Fluorene	28		26	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Indeno[1,2,3-cd]pyrene	810		26	9.1	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
1-Methylnaphthalene	50	J	52	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
2-Methylnaphthalene	60		52	9.1	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Naphthalene	58		52	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Phenanthrene	460		10	5.0	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Pyrene	830		26	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	59		30 - 130				04/18/13 15:43	04/22/13 17:09	1

Client Sample ID: CV1335B-CS

Lab Sample ID: 680-89328-24

Date Collected: 04/11/13 13:50

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Acenaphthylene	61	J	200	24	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Anthracene	100		41	21	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Benzo[a]anthracene	1200		39	19	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Benzo[a]pyrene	1900	J	51	25	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Benzo[b]fluoranthene	4100		60	30	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Benzo[g,h,i]perylene	1300		98	22	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Benzo[k]fluoranthene	1200		39	18	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Chrysene	1600		44	22	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Dibenz(a,h)anthracene	530		98	20	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Fluoranthene	1200		98	20	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Fluorene	32	J	98	20	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Indeno[1,2,3-cd]pyrene	1200		98	35	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
1-Methylnaphthalene	61	J	200	22	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
2-Methylnaphthalene	81	J	200	35	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Naphthalene	86	J	200	22	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Phenanthrene	460		39	19	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Pyrene	930		98	18	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	66		30 - 130				04/18/13 15:43	04/22/13 17:31	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: 680-89328-2
 SDG: 68089328-2

Client Sample ID: CV1350A-CS

Lab Sample ID: 680-89328-25

Date Collected: 04/11/13 14:10

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 77.2

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 16:22	4
Acenaphthylene	40	J	210	26	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Anthracene	52		44	22	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Benzo[a]anthracene	230		41	20	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Benzo[a]pyrene	210	FJ	54	27	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Benzo[b]fluoranthene	340		63	32	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Benzo[g,h,i]perylene	200		100	23	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Benzo[k]fluoranthene	100		41	19	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Chrysene	340		47	23	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Dibenz(a,h)anthracene	54	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Fluoranthene	350		100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Fluorene	26	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Indeno[1,2,3-cd]pyrene	150		100	37	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
1-Methylnaphthalene	220		210	23	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
2-Methylnaphthalene	220		210	37	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Naphthalene	130	J	210	23	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Phenanthrene	340		41	20	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Pyrene	300		100	19	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	53		30 - 130				04/19/13 15:35	04/23/13 16:22	4

Client Sample ID: CV1350B-CS

Lab Sample ID: 680-89328-26

Date Collected: 04/11/13 14:20

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 92.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Acenaphthylene	69		43	5.4	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Anthracene	100		9.0	4.5	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Benzo[a]anthracene	91		8.6	4.2	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Benzo[a]pyrene	100	J	11	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Benzo[b]fluoranthene	280		13	6.6	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Benzo[g,h,i]perylene	60		22	4.7	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Benzo[k]fluoranthene	72		8.6	3.9	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Chrysene	120		9.7	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Dibenz(a,h)anthracene	22		22	4.4	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Fluoranthene	130		22	4.3	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Fluorene	7.3	J	22	4.4	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Indeno[1,2,3-cd]pyrene	63		22	7.6	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
1-Methylnaphthalene	17	J	43	4.7	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
2-Methylnaphthalene	24	J	43	7.6	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Naphthalene	22	J	43	4.7	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Phenanthrene	74		8.6	4.2	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Pyrene	100		22	4.0	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	51		30 - 130				04/18/13 15:43	04/22/13 17:54	1

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

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89328-2
 SDG: 68089328-2

Client Sample ID: CV0695A-CS

Lab Sample ID: 680-89328-27

Date Collected: 04/12/13 08:40

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Acenaphthylene	8.8	J	50	6.3	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Anthracene	20		11	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Benzo[a]anthracene	85	J	10	4.9	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Benzo[a]pyrene	77	J	13	6.5	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Benzo[b]fluoranthene	160		15	7.7	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Benzo[g,h,i]perylene	42		25	5.5	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Benzo[k]fluoranthene	46		10	4.5	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Chrysene	140		11	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Dibenz(a,h)anthracene	17	J	25	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Fluoranthene	160	J	25	5.0	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Fluorene	9.3	J	25	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Indeno[1,2,3-cd]pyrene	39		25	8.9	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
1-Methylnaphthalene	49	J	50	5.5	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
2-Methylnaphthalene	60		50	8.9	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Naphthalene	46	J	50	5.5	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Phenanthrene	140		10	4.9	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Pyrene	110	J	25	4.7	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	68		30 - 130				04/18/13 15:43	04/22/13 18:16	1

Client Sample ID: CV0695A-CSD

Lab Sample ID: 680-89328-28

Date Collected: 04/12/13 08:40

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 79.0

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	☼	04/18/13 15:43	04/22/13 18:39	1
Acenaphthylene	7.0	J	51	6.3	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Anthracene	11		11	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Benzo[a]anthracene	46	J	10	4.9	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Benzo[a]pyrene	46	J	13	6.6	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Benzo[b]fluoranthene	98		15	7.7	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Benzo[g,h,i]perylene	29		25	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Benzo[k]fluoranthene	31		10	4.6	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Chrysene	89		11	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Dibenz(a,h)anthracene	12	J	25	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Fluoranthene	79	J	25	5.1	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Fluorene	10	J	25	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Indeno[1,2,3-cd]pyrene	20	J	25	9.0	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
1-Methylnaphthalene	50	J	51	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
2-Methylnaphthalene	65		51	9.0	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Naphthalene	52		51	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Phenanthrene	89		10	4.9	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Pyrene	50	J	25	4.7	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	61		30 - 130				04/18/13 15:43	04/22/13 18:39	1

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

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89328-2
 SDG: 68089328-2

Client Sample ID: CV0695B-CS

Lab Sample ID: 680-89328-29

Date Collected: 04/12/13 08:50

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 72.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Acenaphthylene	9.4	J	54	6.7	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Anthracene	23		11	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Benzo[a]anthracene	77		11	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Benzo[a]pyrene	69	J	14	7.0	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Benzo[b]fluoranthene	150		16	8.2	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Benzo[g,h,i]perylene	32		27	5.9	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Benzo[k]fluoranthene	49		11	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Chrysene	98		12	6.0	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Dibenz(a,h)anthracene	13	J	27	5.5	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Fluoranthene	130		27	5.4	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Fluorene	7.8	J	27	5.5	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Indeno[1,2,3-cd]pyrene	27		27	9.5	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
1-Methylnaphthalene	31	J	54	5.9	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
2-Methylnaphthalene	42	J	54	9.5	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Naphthalene	57		54	5.9	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Phenanthrene	80		11	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Pyrene	90		27	5.0	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	64		30 - 130				04/18/13 15:43	04/22/13 19:01	1

Client Sample ID: CV0676A-CS-SP

Lab Sample ID: 680-89328-30

Date Collected: 04/12/13 09:05

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 91.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Acenaphthylene	44	U	44	5.5	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Anthracene	8.1	J	9.2	4.6	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Benzo[a]anthracene	27		8.7	4.3	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Benzo[a]pyrene	21	J	11	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Benzo[b]fluoranthene	48		13	6.7	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Benzo[g,h,i]perylene	14	J	22	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Benzo[k]fluoranthene	11		8.7	3.9	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Chrysene	38		9.8	4.9	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Dibenz(a,h)anthracene	5.2	J	22	4.5	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Fluoranthene	39		22	4.4	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Fluorene	6.0	J	22	4.5	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Indeno[1,2,3-cd]pyrene	9.9	J	22	7.8	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
1-Methylnaphthalene	23	J	44	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
2-Methylnaphthalene	30	J	44	7.8	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Naphthalene	28	J	44	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Phenanthrene	38		8.7	4.3	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Pyrene	24		22	4.0	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	65		30 - 130				04/18/13 15:43	04/22/13 19:24	1

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

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89328-2
 SDG: 68089328-2

Client Sample ID: CV0676B-CS-SP

Lab Sample ID: 680-89328-31

Date Collected: 04/12/13 08:48

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Acenaphthylene	45	U	45	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Anthracene	7.1	J	9.4	4.7	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Benzo[a]anthracene	30		9.0	4.4	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Benzo[a]pyrene	24	J	12	5.8	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Benzo[b]fluoranthene	50		14	6.9	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Benzo[g,h,i]perylene	13	J	22	4.9	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Benzo[k]fluoranthene	13		9.0	4.0	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Chrysene	44		10	5.1	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Dibenz(a,h)anthracene	22	U	22	4.6	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Fluoranthene	43		22	4.5	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Fluorene	22	U	22	4.6	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Indeno[1,2,3-cd]pyrene	11	J	22	8.0	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
1-Methylnaphthalene	39	J	45	4.9	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
2-Methylnaphthalene	44	J	45	8.0	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Naphthalene	40	J	45	4.9	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Phenanthrene	53		9.0	4.4	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Pyrene	28		22	4.2	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	66		30 - 130				04/18/13 15:43	04/22/13 19:46	1

Client Sample ID: CV0676C-CS-SP

Lab Sample ID: 680-89328-32

Date Collected: 04/12/13 09:18

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 70.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Acenaphthylene	13	J	57	7.1	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Anthracene	30		12	5.9	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Benzo[a]anthracene	94		11	5.5	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Benzo[a]pyrene	96	J	15	7.4	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Benzo[b]fluoranthene	200		17	8.6	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Benzo[g,h,i]perylene	52		28	6.2	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Benzo[k]fluoranthene	63		11	5.1	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Chrysene	170		13	6.4	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Dibenz(a,h)anthracene	23	J	28	5.8	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Fluoranthene	180		28	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Fluorene	11	J	28	5.8	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Indeno[1,2,3-cd]pyrene	45		28	10	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
1-Methylnaphthalene	77		57	6.2	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
2-Methylnaphthalene	100		57	10	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Naphthalene	110		57	6.2	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Phenanthrene	180		11	5.5	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Pyrene	110		28	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	63		30 - 130				04/18/13 15:43	04/22/13 20:09	1

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

TestAmerica Savannah

ANALYTICAL REPORT

Job Number: 680-89328-2

SDG Number: 68089328-2

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
4/25/2013 5:57 PM

Designee for

Lisa Harvey

Project Manager II

lisa.harvey@testamericainc.com

04/25/2013

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: 680-89328-2

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 04/13/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.4 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1216A-CS (680-89328-21), CV1216B-CS (680-89328-22), CV1335A-CS (680-89328-23), CV1335B-CS (680-89328-24), CV1350A-CS (680-89328-25), CV1350B-CS (680-89328-26), CV0695A-CS (680-89328-27), CV0695A-CSD (680-89328-28), CV0695B-CS (680-89328-29), CV0676A-CS-SP (680-89328-30), CV0676B-CS-SP (680-89328-31) and CV0676C-CS-SP (680-89328-32) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/18/2013 and 04/19/2013 and analyzed on 04/22/2013 and 04/23/2013.

Samples CV1335B-CS (680-89328-24)[4X] and CV1350A-CS (680-89328-25)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Fluoranthene recovered outside the recovery criteria for the MSD of sample 680-89275-21 in batch 660-136733.

Benzo[a]pyrene recovered outside the recovery criteria for the MS of sample CV1350A-CS (680-89328-25) in batch 660-136756.

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: 680-89328-2

Sdg Number: 68089328-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-89328-21	CV1216A-CS	Solid	04/11/2013 1310	04/13/2013 0927
680-89328-22	CV1216B-CS	Solid	04/11/2013 1320	04/13/2013 0927
680-89328-23	CV1335A-CS	Solid	04/11/2013 1340	04/13/2013 0927
680-89328-24	CV1335B-CS	Solid	04/11/2013 1350	04/13/2013 0927
680-89328-25	CV1350A-CS	Solid	04/11/2013 1410	04/13/2013 0927
680-89328-25MS	CV1350A-CS	Solid	04/11/2013 1410	04/13/2013 0927
680-89328-25MSD	CV1350A-CS	Solid	04/11/2013 1410	04/13/2013 0927
680-89328-26	CV1350B-CS	Solid	04/11/2013 1420	04/13/2013 0927
680-89328-27	CV0695A-CS	Solid	04/12/2013 0840	04/13/2013 0927
680-89328-28	CV0695A-CSD	Solid	04/12/2013 0840	04/13/2013 0927
680-89328-29	CV0695B-CS	Solid	04/12/2013 0850	04/13/2013 0927
680-89328-30	CV0676A-CS-SP	Solid	04/12/2013 0905	04/13/2013 0927
680-89328-31	CV0676B-CS-SP	Solid	04/12/2013 0848	04/13/2013 0927
680-89328-32	CV0676C-CS-SP	Solid	04/12/2013 0918	04/13/2013 0927

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89328-2
Sdg Number: 68089328-2

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: 680-89328-2

Sdg Number: 68089328-2

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: 680-89328-2

Sdg Number: 68089328-2

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: 680-89328-2

Sdg Number: 68089328-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC/MS Semi VOA					
Prep Batch: 660-136604					
LCS 660-136604/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136604/1-A	Method Blank	T	Solid	3546	
680-89275-A-21-B MS	Matrix Spike	T	Solid	3546	
680-89275-A-21-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-89328-21	CV1216A-CS	T	Solid	3546	
680-89328-22	CV1216B-CS	T	Solid	3546	
680-89328-23	CV1335A-CS	T	Solid	3546	
680-89328-24	CV1335B-CS	T	Solid	3546	
680-89328-26	CV1350B-CS	T	Solid	3546	
680-89328-27	CV0695A-CS	T	Solid	3546	
680-89328-28	CV0695A-CSD	T	Solid	3546	
680-89328-29	CV0695B-CS	T	Solid	3546	
680-89328-30	CV0676A-CS-SP	T	Solid	3546	
680-89328-31	CV0676B-CS-SP	T	Solid	3546	
680-89328-32	CV0676C-CS-SP	T	Solid	3546	
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	
680-89328-25	CV1350A-CS	T	Solid	3546	
680-89328-25MS	Matrix Spike	T	Solid	3546	
680-89328-25MSD	Matrix Spike Duplicate	T	Solid	3546	
Analysis Batch:660-136733					
LCS 660-136604/2-A	Lab Control Sample	T	Solid	8270C LL	660-136604
MB 660-136604/1-A	Method Blank	T	Solid	8270C LL	660-136604
680-89275-A-21-B MS	Matrix Spike	T	Solid	8270C LL	660-136604
680-89275-A-21-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136604
680-89328-21	CV1216A-CS	T	Solid	8270C LL	660-136604
680-89328-22	CV1216B-CS	T	Solid	8270C LL	660-136604
680-89328-23	CV1335A-CS	T	Solid	8270C LL	660-136604
680-89328-24	CV1335B-CS	T	Solid	8270C LL	660-136604
680-89328-26	CV1350B-CS	T	Solid	8270C LL	660-136604
680-89328-27	CV0695A-CS	T	Solid	8270C LL	660-136604
680-89328-28	CV0695A-CSD	T	Solid	8270C LL	660-136604
680-89328-29	CV0695B-CS	T	Solid	8270C LL	660-136604
680-89328-30	CV0676A-CS-SP	T	Solid	8270C LL	660-136604
680-89328-31	CV0676B-CS-SP	T	Solid	8270C LL	660-136604
680-89328-32	CV0676C-CS-SP	T	Solid	8270C LL	660-136604

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89328-2

Sdg Number: 68089328-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
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
680-89328-25	CV1350A-CS	T	Solid	8270C LL	660-136660
680-89328-25MS	Matrix Spike	T	Solid	8270C LL	660-136660
680-89328-25MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136660

Report Basis

T = Total

General Chemistry

Analysis Batch:660-136561					
680-89328-A-8 MS	Matrix Spike	T	Solid	Moisture	
680-89328-A-8 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-89328-21	CV1216A-CS	T	Solid	Moisture	
680-89328-22	CV1216B-CS	T	Solid	Moisture	
680-89328-24	CV1335B-CS	T	Solid	Moisture	
680-89328-25	CV1350A-CS	T	Solid	Moisture	
680-89328-25MS	Matrix Spike	T	Solid	Moisture	
680-89328-25MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-89328-26	CV1350B-CS	T	Solid	Moisture	
680-89328-27	CV0695A-CS	T	Solid	Moisture	
680-89328-28	CV0695A-CSD	T	Solid	Moisture	
680-89328-29	CV0695B-CS	T	Solid	Moisture	
680-89328-30	CV0676A-CS-SP	T	Solid	Moisture	
680-89328-31	CV0676B-CS-SP	T	Solid	Moisture	
680-89328-32	CV0676C-CS-SP	T	Solid	Moisture	
Analysis Batch:660-136569					
LCS 660-136569/1	Lab Control Sample	T	Solid	Moisture	
680-89328-23	CV1335A-CS	T	Solid	Moisture	

Report Basis

T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89328-2

SDG No.: 68089328-2

Instrument ID: BSMD5973 Analysis Batch Number: 136164

Lab 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.: 680-89328-2

SDG No.: 68089328-2

Instrument ID: BSMD5973 Analysis Batch Number: 136164

Lab 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.: 680-89328-2SDG No.: 68089328-2Instrument ID: BSMD5973 Analysis Batch Number: 136733Lab Sample ID: CCVIS 660-136733/3 Client Sample ID: _____Date Analyzed: 04/22/13 10:43 Lab File ID: 1DD22003.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	04/22/13 11:05

Lab Sample ID: LCS 660-136604/2-A Client Sample ID: _____Date Analyzed: 04/22/13 11:53 Lab File ID: 1DD22006.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	04/23/13 09:23

Lab Sample ID: 680-89275-A-21-B MS Client Sample ID: _____Date Analyzed: 04/22/13 12:38 Lab File ID: 1DD22008.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	04/23/13 09:24

Lab Sample ID: 680-89275-A-21-C MSD Client Sample ID: _____Date Analyzed: 04/22/13 13:00 Lab File ID: 1DD22009.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	04/23/13 09:25

Lab Sample ID: 680-89328-21 Client Sample ID: CV1216A-CSDate Analyzed: 04/22/13 16:23 Lab File ID: 1DD22018.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	04/23/13 10:02

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89328-2SDG No.: 68089328-2Instrument ID: BSMD5973 Analysis Batch Number: 136733Lab Sample ID: 680-89328-22 Client Sample ID: CV1216B-CSDate Analyzed: 04/22/13 16:46 Lab File ID: 1DD22019.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	04/23/13 10:03

Lab Sample ID: 680-89328-23 Client Sample ID: CV1335A-CSDate Analyzed: 04/22/13 17:09 Lab File ID: 1DD22020.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	04/23/13 10:04

Lab Sample ID: 680-89328-24 Client Sample ID: CV1335B-CSDate Analyzed: 04/22/13 17:31 Lab File ID: 1DD22021.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	04/23/13 10:26

Lab Sample ID: 680-89328-26 Client Sample ID: CV1350B-CSDate Analyzed: 04/22/13 17:54 Lab File ID: 1DD22022.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	04/23/13 10:27

Lab Sample ID: 680-89328-27 Client Sample ID: CV0695A-CSDate Analyzed: 04/22/13 18:16 Lab File ID: 1DD22023.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	04/23/13 10:28

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89328-2SDG No.: 68089328-2Instrument ID: BSMD5973 Analysis Batch Number: 136733Lab Sample ID: 680-89328-28 Client Sample ID: CV0695A-CSDDate Analyzed: 04/22/13 18:39 Lab File ID: 1DD22024.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	04/23/13 10:57

Lab Sample ID: 680-89328-29 Client Sample ID: CV0695B-CSDate Analyzed: 04/22/13 19:01 Lab File ID: 1DD22025.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	04/23/13 10:58

Lab Sample ID: 680-89328-30 Client Sample ID: CV0676A-CS-SPDate Analyzed: 04/22/13 19:24 Lab File ID: 1DD22026.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	04/23/13 10:59
Dibenz(a,h)anthracene	14.75	Baseline Event	cantins	04/23/13 10:59

Lab Sample ID: 680-89328-31 Client Sample ID: CV0676B-CS-SPDate Analyzed: 04/22/13 19:46 Lab File ID: 1DD22027.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	Baseline Event	cantins	04/23/13 11:00

Lab Sample ID: 680-89328-32 Client Sample ID: CV0676C-CS-SPDate Analyzed: 04/22/13 20:09 Lab File ID: 1DD22028.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	04/23/13 11:01

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89328-2SDG No.: 68089328-2Instrument ID: BSMD5973 Analysis Batch Number: 136756Lab Sample ID: CCV 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: 680-89328-25 Client Sample ID: CV1350A-CSDate Analyzed: 04/23/13 16:22 Lab File ID: 1DD23010.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 12:58

Lab Sample ID: 680-89328-25 MS Client Sample ID: CV1350A-CS MSDate 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: 680-89328-25 MSD Client Sample ID: CV1350A-CS MSDDate 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

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.: 680-89328-2

SDG No.: 68089328-2

Matrix: Solid

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV1216A-CS	680-89328-21	66
CV1216B-CS	680-89328-22	70
CV1335A-CS	680-89328-23	59
CV1335B-CS	680-89328-24	66
CV1350A-CS	680-89328-25	53
CV1350B-CS	680-89328-26	51
CV0695A-CS	680-89328-27	68
CV0695A-CSD	680-89328-28	61
CV0695B-CS	680-89328-29	64
CV0676A-CS-SP	680-89328-30	65
CV0676B-CS-SP	680-89328-31	66
CV0676C-CS-SP	680-89328-32	63
	MB 660-136604/1-A	63
	MB 660-136660/1-A	64
	LCS 660-136604/2-A	69
	LCS 660-136660/2-A	64
	680-89275-A-21-B MS	54
CV1350A-CS MS	680-89328-25 MS	49
	680-89275-A-21-C MSD	65
CV1350A-CS MSD	680-89328-25 MSD	58

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.: 680-89328-2

SDG No.: 68089328-2

Matrix: Solid Level: Low Lab File ID: 1DD22006.D

Lab ID: LCS 660-136604/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	660	450	68	39-130	
Acenaphthylene	660	469	71	38-130	
Anthracene	660	453	69	37-130	
Benzo[a]anthracene	660	476	72	40-130	
Benzo[a]pyrene	660	427	65	49-130	
Benzo[b]fluoranthene	660	482	73	37-130	
Benzo[g,h,i]perylene	660	480	73	32-130	
Benzo[k]fluoranthene	660	482	73	32-130	
Chrysene	660	459	70	41-130	
Dibenz(a,h)anthracene	660	501	76	27-130	
Fluoranthene	660	479	73	40-130	
Fluorene	660	481	73	40-130	
Indeno[1,2,3-cd]pyrene	660	481	73	30-130	
1-Methylnaphthalene	660	467	71	31-130	
2-Methylnaphthalene	660	455	69	33-130	
Naphthalene	660	440	67	36-130	
Phenanthrene	660	444	67	42-130	
Pyrene	660	448	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.: 680-89328-2
 SDG No.: 68089328-2
 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 MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 Matrix: Solid Level: Low Lab File ID: 1DD22008.D
 Lab ID: 680-89275-A-21-B MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	868	27 J	478	52	39-130	
Acenaphthylene	868	320	865	62	38-130	
Anthracene	868	250	754	58	37-130	
Benzo[a]anthracene	868	860	1430	66	40-130	
Benzo[a]pyrene	868	870	1360	56	49-130	
Benzo[b]fluoranthene	868	1500	2150	70	37-130	
Benzo[g,h,i]perylene	868	790	1150	42	32-130	
Benzo[k]fluoranthene	868	480	1060	68	32-130	
Chrysene	868	980	1470	57	41-130	
Dibenz(a,h)anthracene	868	240	765	60	27-130	
Fluoranthene	868	1400	2060	72	40-130	
Fluorene	868	45	512	54	40-130	
Indeno[1,2,3-cd]pyrene	868	690	1150	52	30-130	
1-Methylnaphthalene	868	130	603	55	31-130	
2-Methylnaphthalene	868	170	659	56	33-130	
Naphthalene	868	280	832	64	36-130	
Phenanthrene	868	600	1090	57	42-130	
Pyrene	868	1000	1510	55	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.: 680-89328-2
 SDG No.: 68089328-2
 Matrix: Solid Level: Low Lab File ID: 1DD23011.D
 Lab ID: 680-89328-25 MS Client ID: CV1350A-CS MS

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 DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 Matrix: Solid Level: Low Lab File ID: 1DD22009.D
 Lab ID: 680-89275-A-21-C MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	868	571	63	18	40	39-130	
Acenaphthylene	868	1010	79	16	40	38-130	
Anthracene	868	957	81	24	40	37-130	
Benzo[a]anthracene	868	1750	103	20	40	40-130	
Benzo[a]pyrene	868	1700	96	22	40	49-130	
Benzo[b]fluoranthene	868	2660	128	21	40	37-130	
Benzo[g,h,i]perylene	868	1270	55	9	40	32-130	
Benzo[k]fluoranthene	868	1260	90	17	40	32-130	
Chrysene	868	1870	102	24	40	41-130	
Dibenz(a,h)anthracene	868	865	72	12	40	27-130	
Fluoranthene	868	2660	141	25	40	40-130	F
Fluorene	868	641	69	22	40	40-130	
Indeno[1,2,3-cd]pyrene	868	1290	69	12	40	30-130	
1-Methylnaphthalene	868	722	69	18	40	31-130	
2-Methylnaphthalene	868	778	70	17	40	33-130	
Naphthalene	868	973	80	16	40	36-130	
Phenanthrene	868	1420	95	27	40	42-130	
Pyrene	868	1850	94	20	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.: 680-89328-2
 SDG No.: 68089328-2
 Matrix: Solid Level: Low Lab File ID: 1DD23012.D
 Lab ID: 680-89328-25 MSD Client ID: CV1350A-CS MSD

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 IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 Lab File ID: 1DD22005.D Lab Sample ID: MB 660-136604/1-A
 Matrix: Solid Date Extracted: 04/18/2013 15:43
 Instrument ID: BSMD5973 Date Analyzed: 04/22/2013 11:30
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136604/2-A	1DD22006.D	04/22/2013 11:53
	680-89275-A-21-B MS	1DD22008.D	04/22/2013 12:38
	680-89275-A-21-C MSD	1DD22009.D	04/22/2013 13:00
CV1216A-CS	680-89328-21	1DD22018.D	04/22/2013 16:23
CV1216B-CS	680-89328-22	1DD22019.D	04/22/2013 16:46
CV1335A-CS	680-89328-23	1DD22020.D	04/22/2013 17:09
CV1335B-CS	680-89328-24	1DD22021.D	04/22/2013 17:31
CV1350B-CS	680-89328-26	1DD22022.D	04/22/2013 17:54
CV0695A-CS	680-89328-27	1DD22023.D	04/22/2013 18:16
CV0695A-CSD	680-89328-28	1DD22024.D	04/22/2013 18:39
CV0695B-CS	680-89328-29	1DD22025.D	04/22/2013 19:01
CV0676A-CS-SP	680-89328-30	1DD22026.D	04/22/2013 19:24
CV0676B-CS-SP	680-89328-31	1DD22027.D	04/22/2013 19:46
CV0676C-CS-SP	680-89328-32	1DD22028.D	04/22/2013 20:09

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89328-2
SDG No.: 68089328-2
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
CV1350A-CS	680-89328-25	1DD23010.D	04/23/2013 16:22
CV1350A-CS MS	680-89328-25 MS	1DD23011.D	04/23/2013 16:44
CV1350A-CS MSD	680-89328-25 MSD	1DD23012.D	04/23/2013 17:07

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

Lab Name: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 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.: 680-89328-2
 SDG No.: 68089328-2
 Lab File ID: 1DD22002.D DFTPP Injection Date: 04/22/2013
 Instrument ID: BSMD5973 DFTPP Injection Time: 10:26
 Analysis Batch No.: 136733

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	47.0
68	Less than 2.0 % of mass 69	0.2 (0.4) 1
69	Mass 69 relative abundance	45.5
70	Less than 2.0 % of mass 69	0.0 (0.0) 1
127	10.0 - 80.0 % of mass 198	49.7
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.0
275	10.0 - 60.0 % of mass 198	26.8
365	Greater than 1.0 % of mass 198	3.8
441	Present but less than mass 443	0.7
442	Greater than 50.0 % of mass 198	74.0
443	15.0 - 24.0 % of mass 442	15.0 (20.3) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136733/3	1DD22003.D	04/22/2013	10:43
	MB 660-136604/1-A	1DD22005.D	04/22/2013	11:30
	LCS 660-136604/2-A	1DD22006.D	04/22/2013	11:53
	680-89275-A-21-B MS	1DD22008.D	04/22/2013	12:38
	680-89275-A-21-C MSD	1DD22009.D	04/22/2013	13:00
CV1216A-CS	680-89328-21	1DD22018.D	04/22/2013	16:23
CV1216B-CS	680-89328-22	1DD22019.D	04/22/2013	16:46
CV1335A-CS	680-89328-23	1DD22020.D	04/22/2013	17:09
CV1335B-CS	680-89328-24	1DD22021.D	04/22/2013	17:31
CV1350B-CS	680-89328-26	1DD22022.D	04/22/2013	17:54
CV0695A-CS	680-89328-27	1DD22023.D	04/22/2013	18:16
CV0695A-CSD	680-89328-28	1DD22024.D	04/22/2013	18:39
CV0695B-CS	680-89328-29	1DD22025.D	04/22/2013	19:01
CV0676A-CS-SP	680-89328-30	1DD22026.D	04/22/2013	19:24
CV0676B-CS-SP	680-89328-31	1DD22027.D	04/22/2013	19:46
CV0676C-CS-SP	680-89328-32	1DD22028.D	04/22/2013	20:09

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

Lab Name: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 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
	CCV 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
CV1350A-CS	680-89328-25	1DD23010.D	04/23/2013	16:22
CV1350A-CS MS	680-89328-25 MS	1DD23011.D	04/23/2013	16:44
CV1350A-CS MSD	680-89328-25 MSD	1DD23012.D	04/23/2013	17:07

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

Lab Name: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 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 = ± 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.: 680-89328-2
 SDG No.: 68089328-2
 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 = ± 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.: 680-89328-2
 SDG No.: 68089328-2
 Sample No.: CCVIS 660-136733/3 Date Analyzed: 04/22/2013 10:43
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DD22003.D Heated Purge: (Y/N) N
 Calibration ID: 2874

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	1796455	6.05	1037513	7.73	1775352	9.00	
UPPER LIMIT	3592910	6.55	2075026	8.23	3550704	9.50	
LOWER LIMIT	898228	5.55	518757	7.23	887676	8.50	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136604/1-A		2232943	6.06	1323504	7.74	2206229	8.99
LCS 660-136604/2-A		1931895	6.05	1141255	7.74	1907584	8.99
680-89275-A-21-B MS		2093932	6.05	1246507	7.74	2071815	9.00
680-89275-A-21-C MSD		1863685	6.06	1105330	7.74	1822597	9.00
680-89328-21	CV1216A-CS	1883430	6.06	1098288	7.74	1809575	9.00
680-89328-22	CV1216B-CS	1932979	6.06	1126979	7.74	1885969	9.01
680-89328-23	CV1335A-CS	2000395	6.06	1179794	7.74	1956318	9.01
680-89328-24	CV1335B-CS	2012822	6.06	1198612	7.74	1997213	9.01
680-89328-26	CV1350B-CS	1960530	6.07	1159544	7.74	1936559	9.00
680-89328-27	CV0695A-CS	2010573	6.07	1190650	7.75	1978615	9.01
680-89328-28	CV0695A-CSD	1952678	6.06	1143232	7.74	1887701	9.01
680-89328-29	CV0695B-CS	1934029	6.07	1108831	7.75	1848584	9.00
680-89328-30	CV0676A-CS-SP	1939286	6.06	1126091	7.74	1894170	9.00
680-89328-31	CV0676B-CS-SP	1898326	6.06	1108897	7.75	1804464	9.00
680-89328-32	CV0676C-CS-SP	1952473	6.06	1144993	7.74	1888620	9.01

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

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

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 Sample No.: CCVIS 660-136733/3 Date Analyzed: 04/22/2013 10:43
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DD22003.D Heated Purge: (Y/N) N
 Calibration ID: 2874

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	1817611	11.31	1852984	13.12		
UPPER LIMIT	3635222	11.81	3705968	13.62		
LOWER LIMIT	908806	10.81	926492	12.62		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-136604/1-A		2159386	11.30	2217702	13.12	
LCS 660-136604/2-A		1920971	11.30	1914100	13.12	
680-89275-A-21-B MS		2259125	11.31	2571607	13.15	
680-89275-A-21-C MSD		2040070	11.32	2299548	13.15	
680-89328-21	CV1216A-CS	2230923	11.32	2077384	13.15	
680-89328-22	CV1216B-CS	2187863	11.32	2043845	13.16	
680-89328-23	CV1335A-CS	2364789	11.33	2072435	13.16	
680-89328-24	CV1335B-CS	2383364	11.33	2106494	13.15	
680-89328-26	CV1350B-CS	2406713	11.33	2052224	13.16	
680-89328-27	CV0695A-CS	2354073	11.33	2028850	13.16	
680-89328-28	CV0695A-CSD	2309460	11.32	1931398	13.15	
680-89328-29	CV0695B-CS	2193886	11.32	1887939	13.15	
680-89328-30	CV0676A-CS-SP	2259341	11.33	1917587	13.15	
680-89328-31	CV0676B-CS-SP	2200771	11.33	1891261	13.15	
680-89328-32	CV0676C-CS-SP	2286858	11.32	1885464	13.16	

CRY = Chrysene-d12

PRY = Perylene-d12

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

RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 Client Sample ID: CV1216A-CS Lab Sample ID: 680-89328-21
 Matrix: Solid Lab File ID: 1DD22018.D
 Analysis Method: 8270C LL Date Collected: 04/11/2013 13:10
 Extract. Method: 3546 Date Extracted: 04/18/2013 15:43
 Sample wt/vol: 15.13(g) Date Analyzed: 04/22/2013 16:23
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 22.6 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136733 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	78		51	6.4
120-12-7	Anthracene	120		11	5.4
56-55-3	Benzo[a]anthracene	410		10	5.0
50-32-8	Benzo[a]pyrene	450		13	6.7
205-99-2	Benzo[b]fluoranthene	800		16	7.8
191-24-2	Benzo[g,h,i]perylene	220		26	5.6
207-08-9	Benzo[k]fluoranthene	280		10	4.6
218-01-9	Chrysene	490		12	5.8
53-70-3	Dibenz(a,h)anthracene	81		26	5.3
206-44-0	Fluoranthene	820		26	5.1
86-73-7	Fluorene	18	J	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	190		26	9.1
90-12-0	1-Methylnaphthalene	64		51	5.6
91-57-6	2-Methylnaphthalene	77		51	9.1
91-20-3	Naphthalene	75		51	5.6
85-01-8	Phenanthrene	370		10	5.0
129-00-0	Pyrene	530		26	4.7

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22018.D
 Lab Smp Id: 680-89328-A-21-A Client Smp ID: CV1216A-CS
 Inj Date : 22-APR-2013 16:23
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89328-A-21-A
 Misc Info : 680-89328-A-21-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
 Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 18
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.130	Weight Extracted
M	22.616	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL			
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)
* 1 Naphthalene-d8	136	6.060	6.054	(1.000)	1883430	40.0000	
* 6 Acenaphthene-d10	164	7.740	7.734	(1.000)	1098288	40.0000	
* 9 Phenanthrene-d10	188	9.003	8.998	(1.000)	1809575	40.0000	
\$ 13 o-Terphenyl	230	9.309	9.309	(1.034)	179326	6.57702	560
* 17 Chrysene-d12	240	11.324	11.307	(1.000)	2230923	40.0000	
* 22 Perylene-d12	264	13.151	13.122	(1.000)	2077384	40.0000	
2 Naphthalene	128	6.083	6.077	(1.004)	41252	0.88120	75
3 2-Methylnaphthalene	142	6.788	6.783	(1.120)	27086	0.89630	76
4 1-Methylnaphthalene	142	6.882	6.877	(1.136)	21479	0.75265	64
5 Acenaphthylene	152	7.617	7.611	(0.984)	42300	0.90998	78
7 Acenaphthene	154	7.770	7.764	(1.004)	4400	0.15335	13
8 Fluorene	166	8.210	8.204	(1.061)	7304	0.21496	18
10 Phenanthrene	178	9.021	9.015	(1.002)	213170	4.27673	360
11 Anthracene	178	9.062	9.056	(1.007)	69898	1.41289	120

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.203	9.197	(1.022)	30741	0.70447	60
14 Fluoranthene	202	10.008	10.002	(1.112)	491813	9.58848	820
15 Pyrene	202	10.196	10.184	(0.900)	413001	6.16470	530
16 Benzo(a)anthracene	228	11.307	11.289	(0.998)	308145	4.77741	410
18 Chrysene	228	11.342	11.330	(1.002)	345496	5.71271	490
19 Benzo(b)fluoranthene	252	12.611	12.582	(0.959)	484200	9.33064	800
20 Benzo(k)fluoranthene	252	12.640	12.623	(0.961)	182068	3.33031	280
21 Benzo(a)pyrene	252	13.057	13.034	(0.993)	271813	5.21305	440
23 Indeno(1,2,3-cd)pyrene	276	14.738	14.709	(1.121)	125701	2.26090	190(M)
24 Dibenzo(a,h)anthracene	278	14.750	14.732	(1.122)	49952	0.95409	81
25 Benzo(g,h,i)perylene	276	15.173	15.143	(1.154)	140583	2.62611	220

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD22018.D

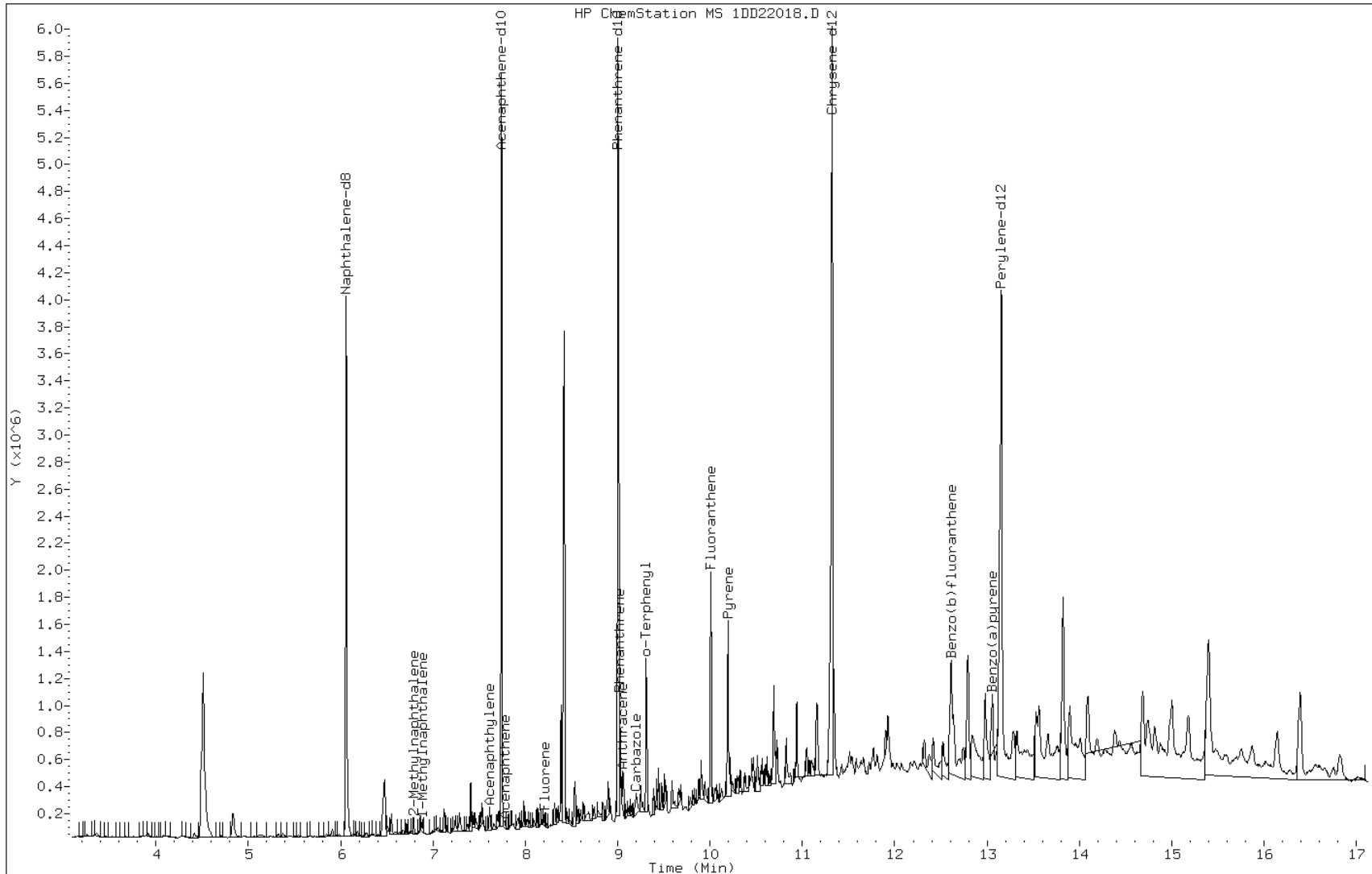
Date: 22-APR-2013 16:23

Client ID: CV1216A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-21-A

Operator: SCC



Data File: 1DD22018.D

Date: 22-APR-2013 16:23

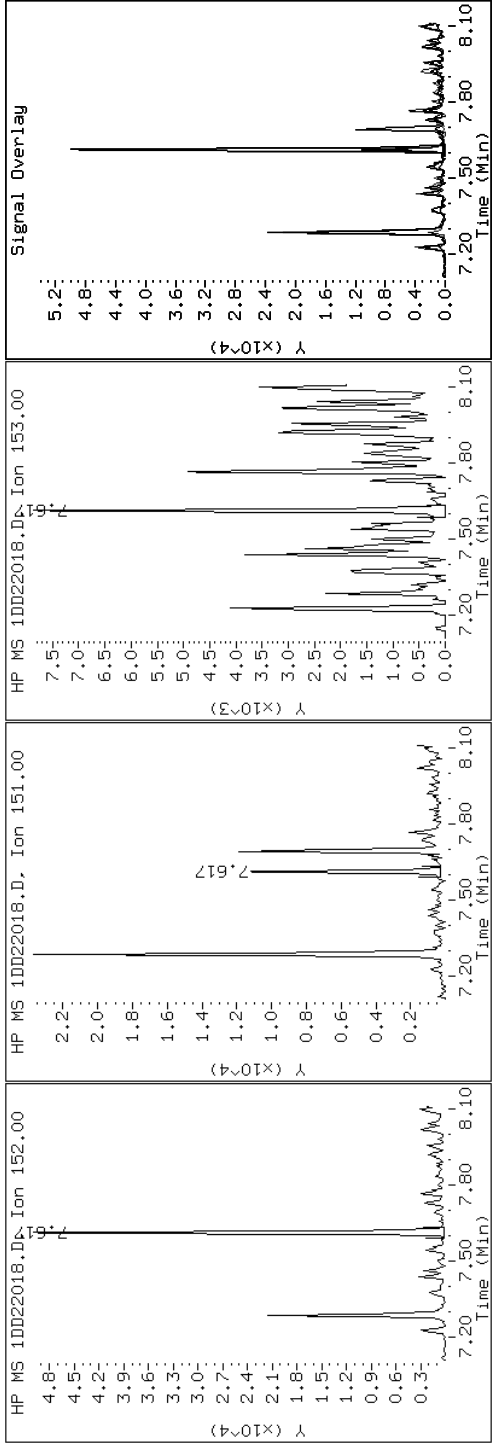
Client ID: CVI216A-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-21-A

Operator: SCC

5 Acenaphthylene



Data File: 1DD22018.D

Date: 22-APR-2013 16:23

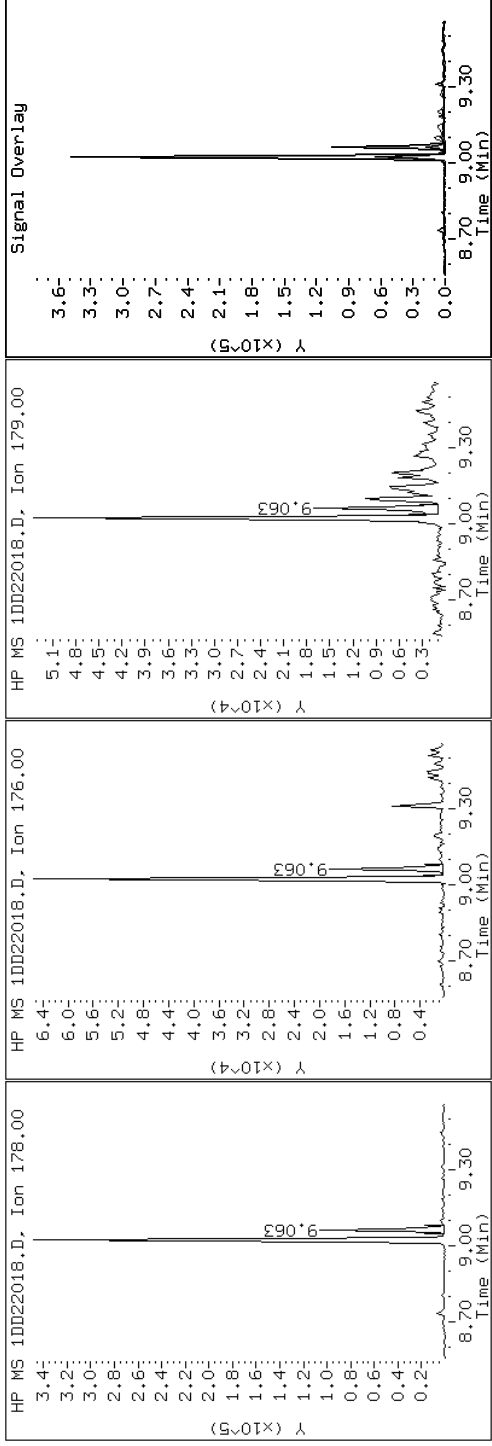
Client ID: CV1216A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-21-A

Operator: SCC

11 Anthracene



Data File: 1DD22018.D

Date: 22-APR-2013 16:23

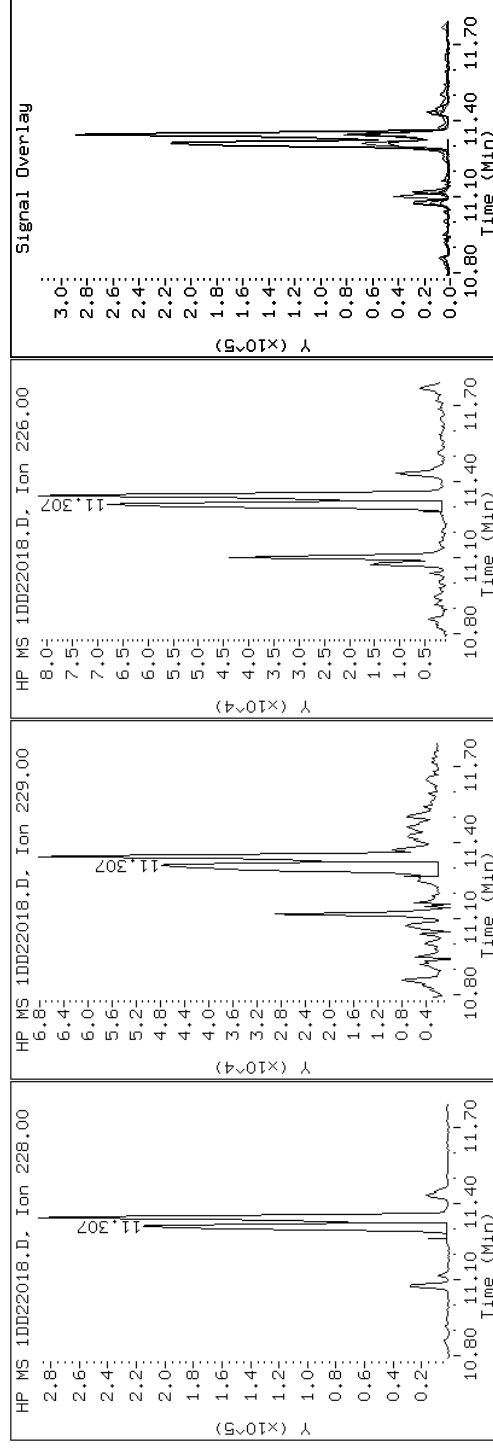
Client ID: CV1216A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-21-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD22018.D

Date: 22-APR-2013 16:23

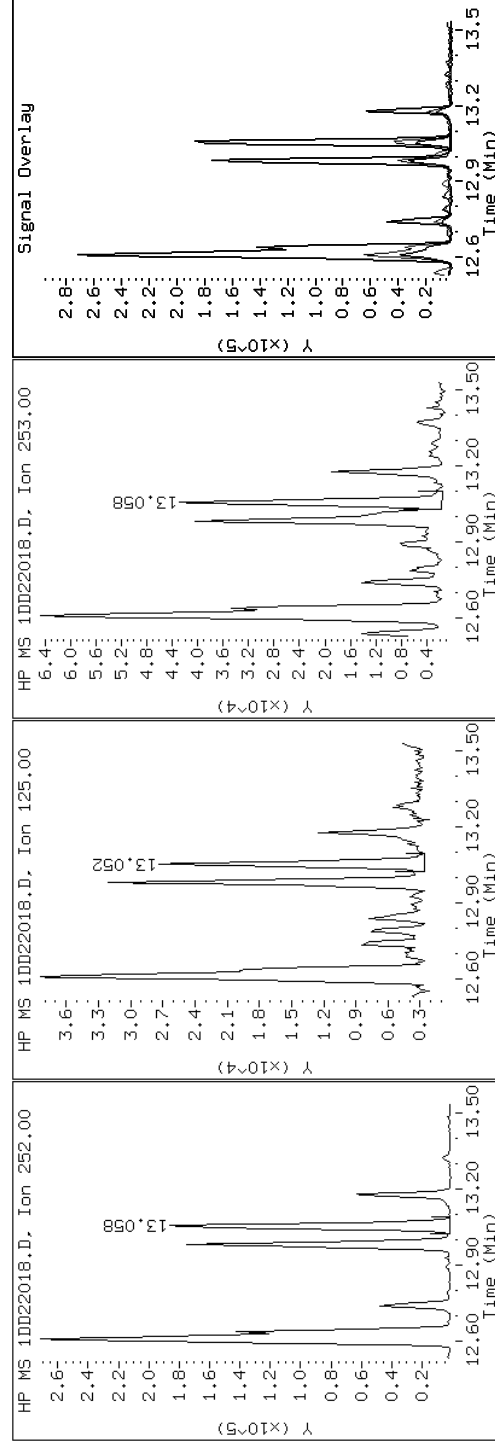
Client ID: CV1216A-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-21-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD22018.D

Date: 22-APR-2013 16:23

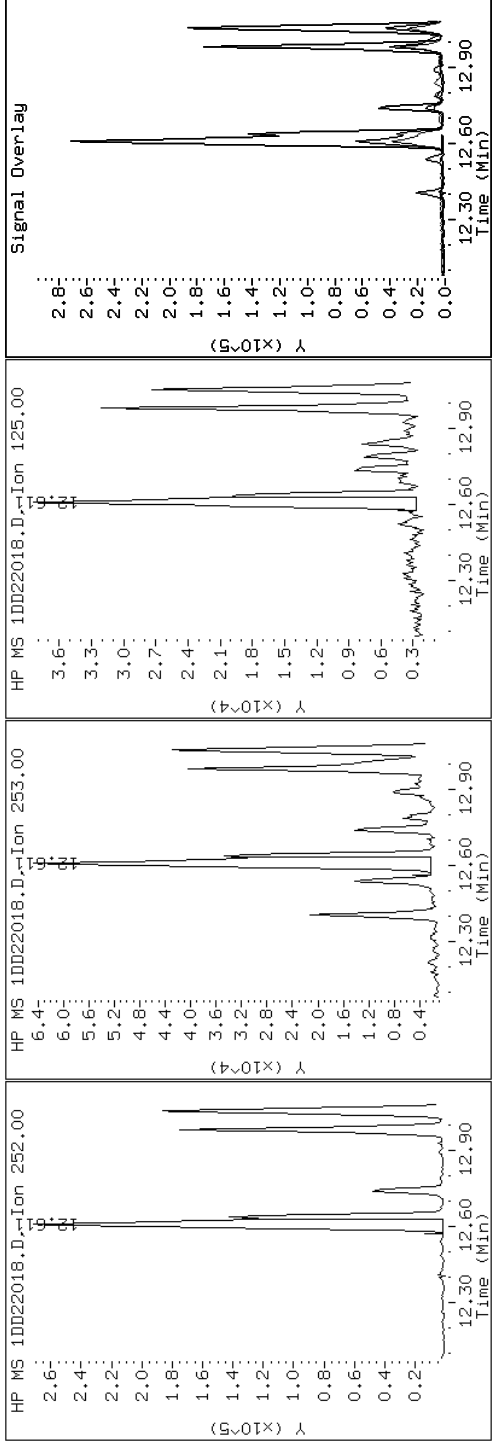
Client ID: CV1216A-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-21-A

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD22018.D

Date: 22-APR-2013 16:23

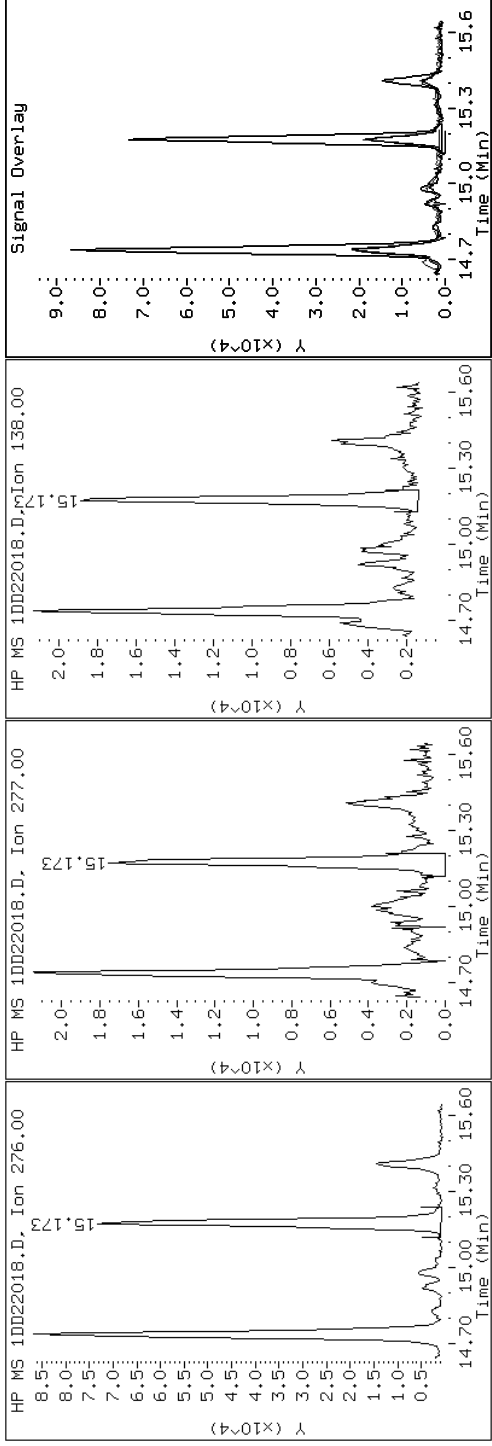
Client ID: CV1216A-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-21-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD22018.D

Date: 22-APR-2013 16:23

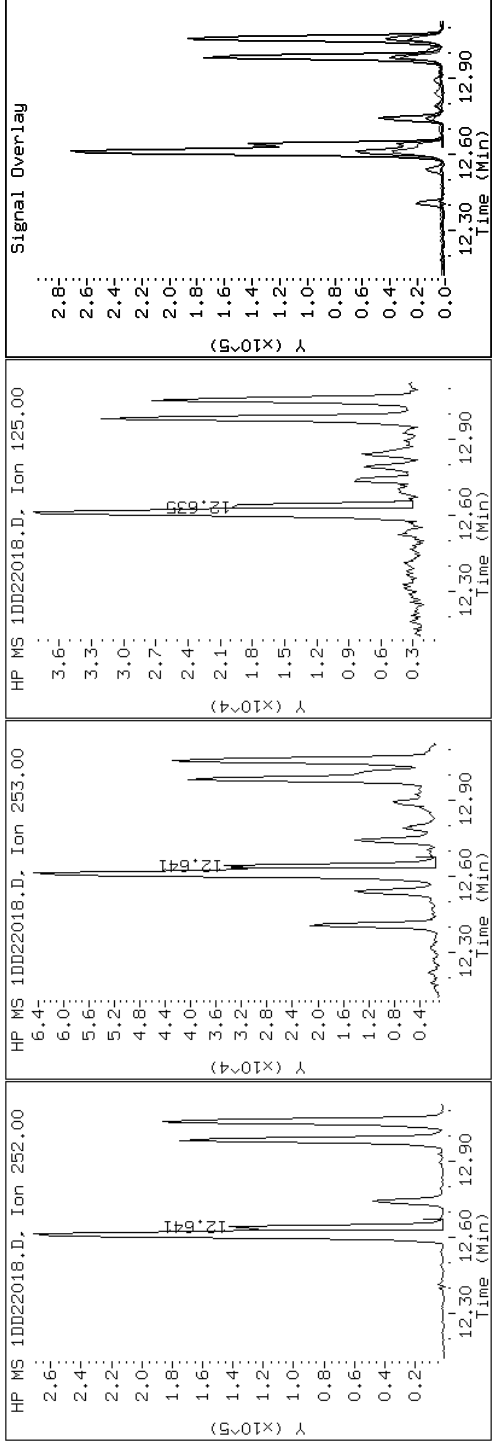
Client ID: CV1216A-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-21-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD22018.D

Date: 22-APR-2013 16:23

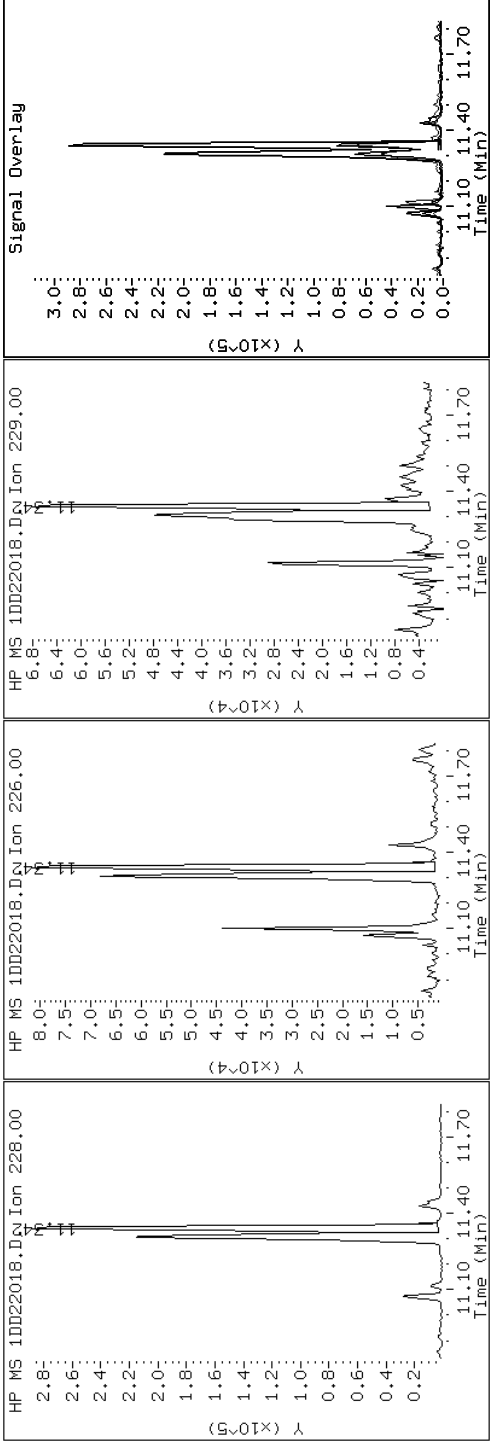
Client ID: CV1216A-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-21-A

Operator: SCC

18 Chrysene



Data File: 1DD22018.D

Date: 22-APR-2013 16:23

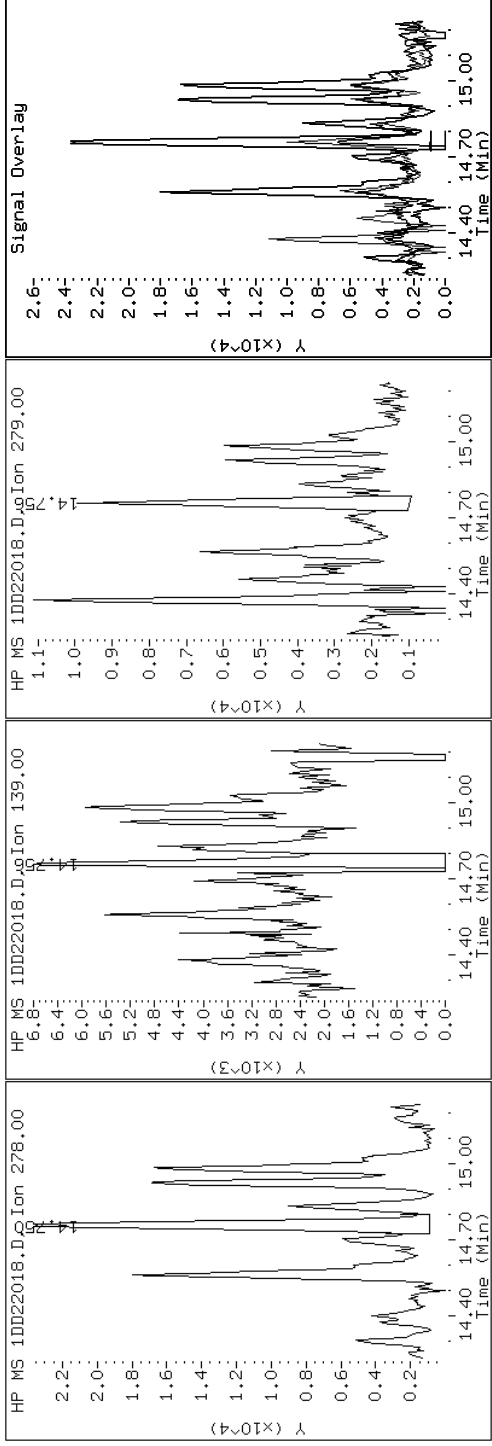
Client ID: CV1216A-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-21-A

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD22018.D

Date: 22-APR-2013 16:23

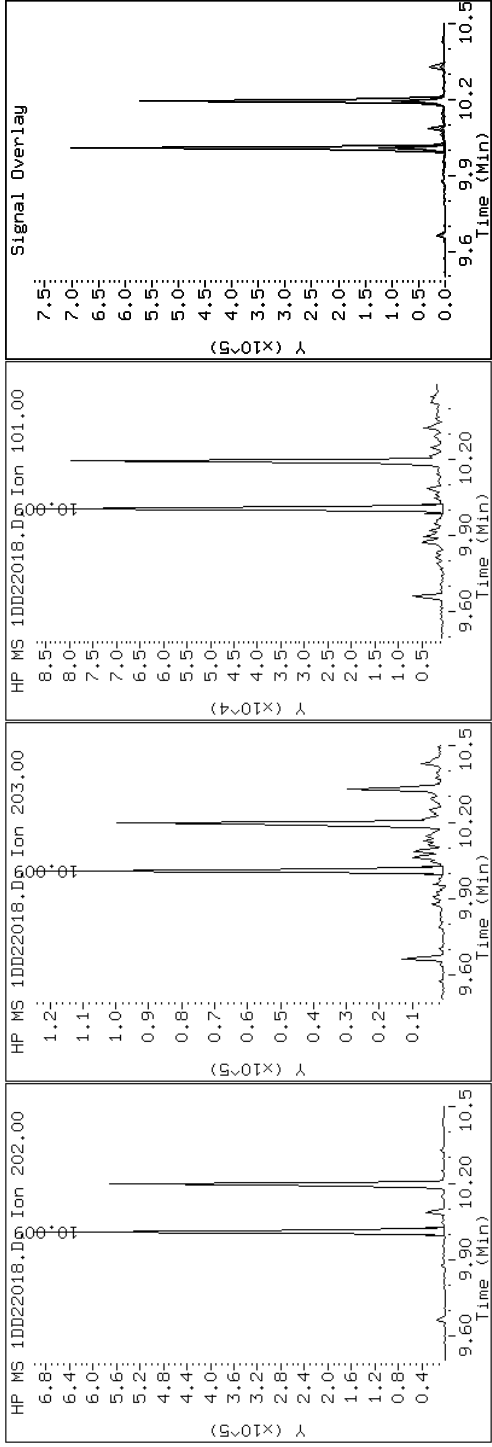
Client ID: CV1216A-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-21-A

Operator: SCC

14 Fluoranthene



Data File: 1DD22018.D

Date: 22-APR-2013 16:23

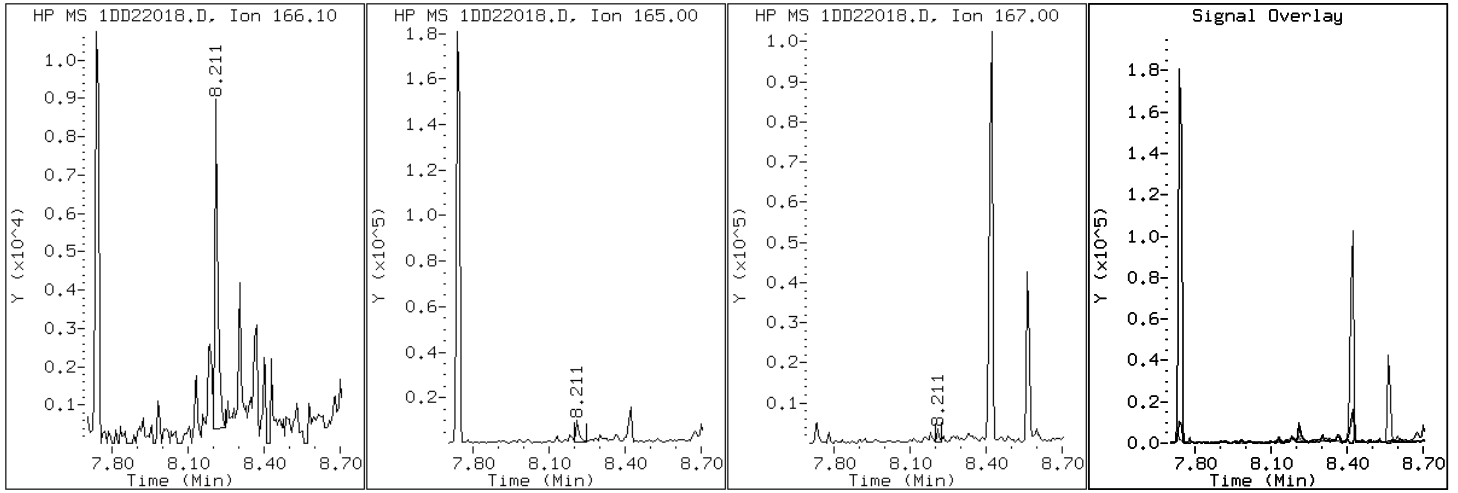
Client ID: CV1216A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-21-A

Operator: SCC

8 Fluorene



Data File: 1DD22018.D

Date: 22-APR-2013 16:23

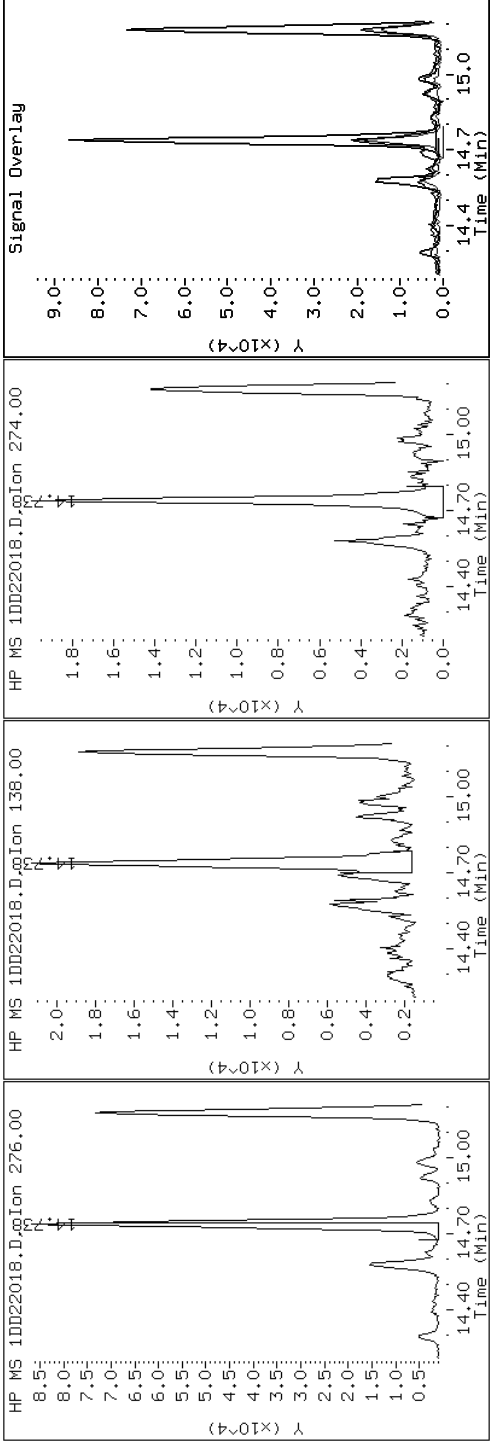
Client ID: CV1216A-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-21-A

Operator: SCC

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



Data File: 1DD22018.D

Date: 22-APR-2013 16:23

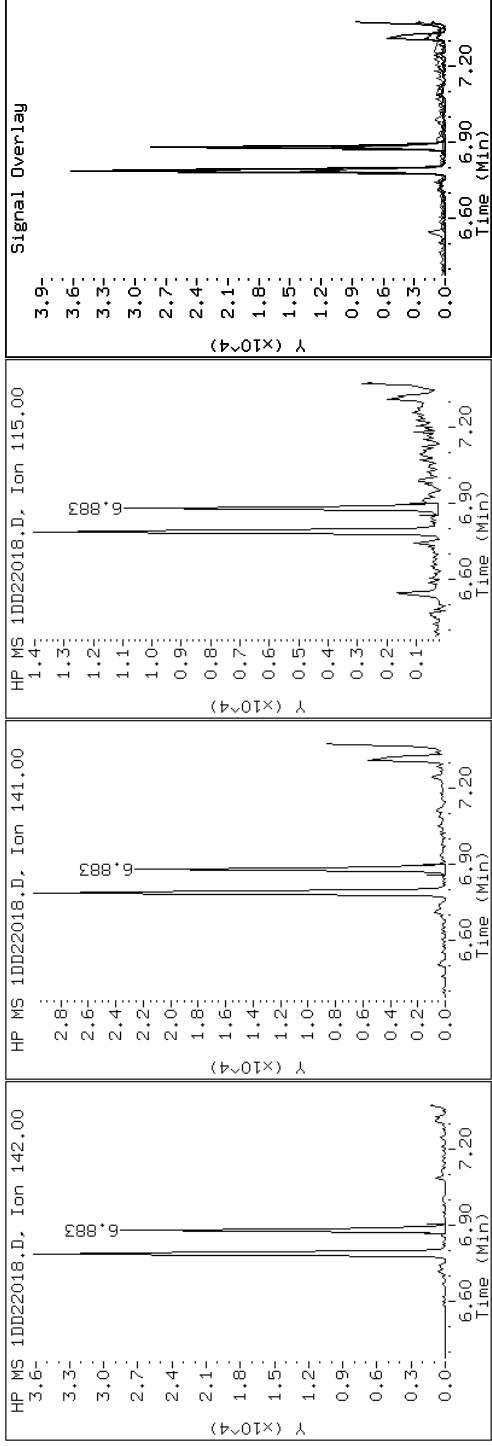
Client ID: CV1216A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-21-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD22018.D

Date: 22-APR-2013 16:23

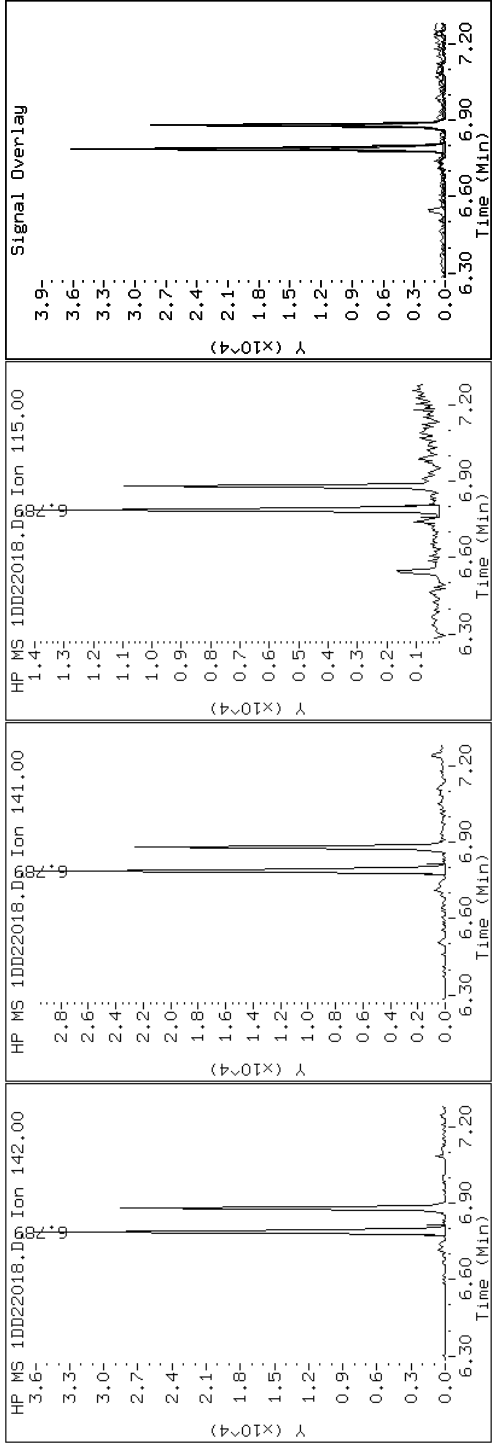
Client ID: CV1216A-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-21-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD22018.D

Date: 22-APR-2013 16:23

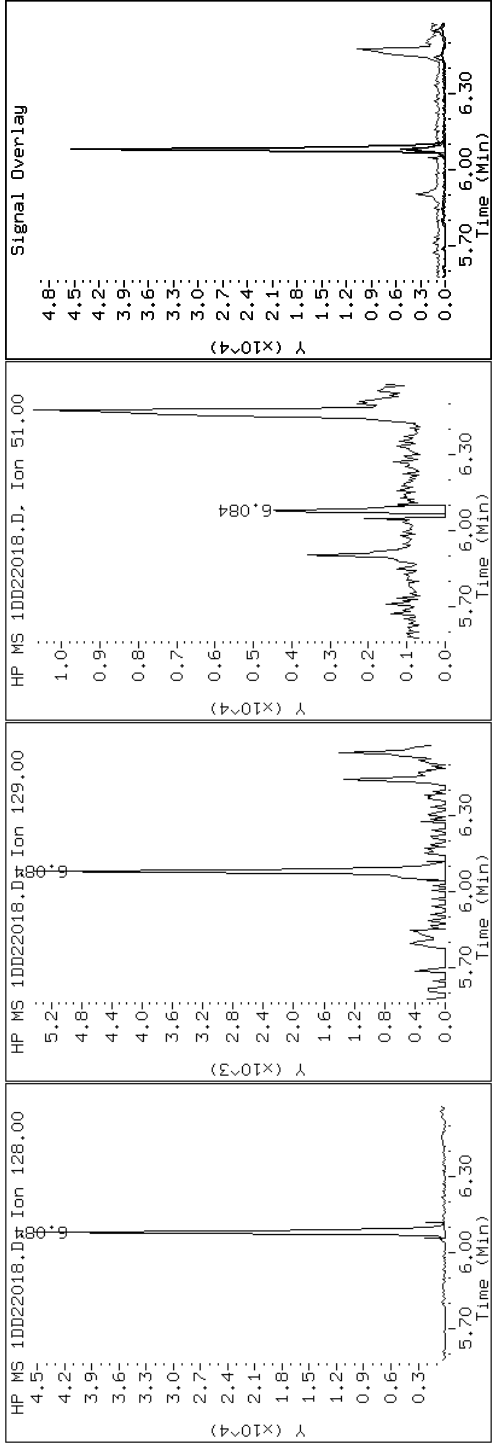
Client ID: CV1216A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-21-A

Operator: SCC

2 Naphthalene



Data File: 1DD22018.D

Date: 22-APR-2013 16:23

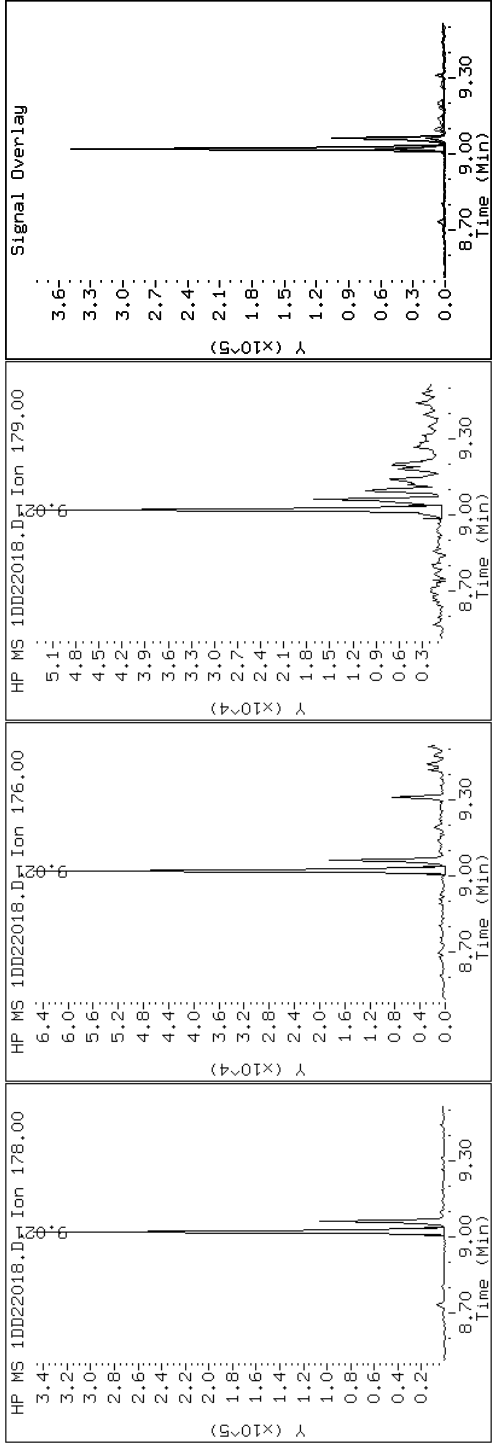
Client ID: CV1216A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-21-A

Operator: SCC

10 Phenanthrene



Data File: 1DD22018.D

Date: 22-APR-2013 16:23

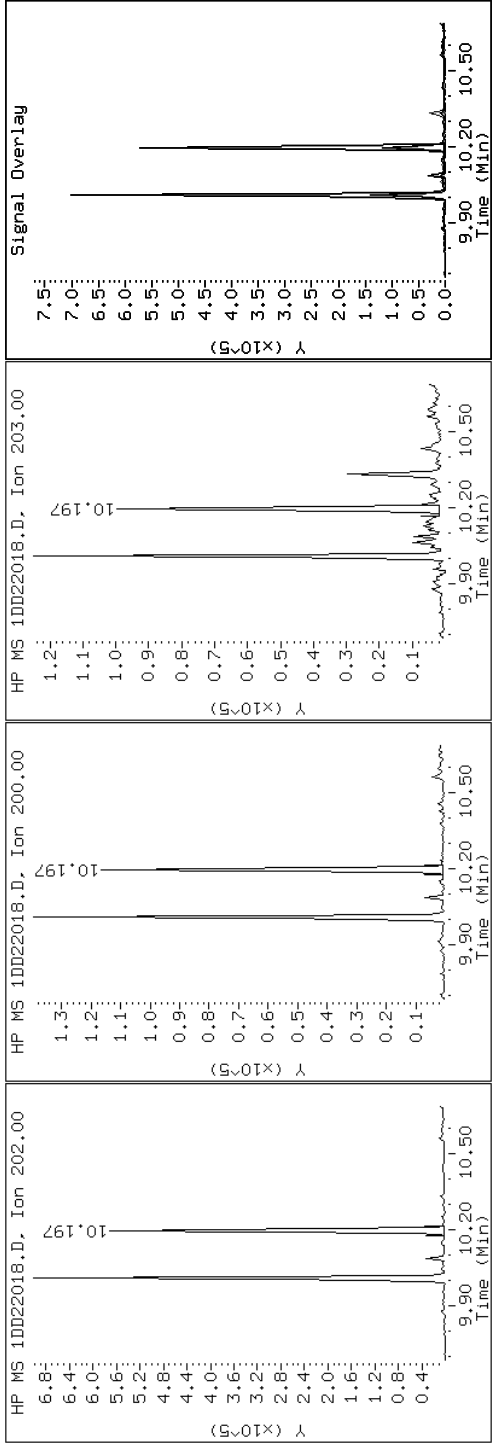
Client ID: CV1216A-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-21-A

Operator: SCC

15 Pyrene

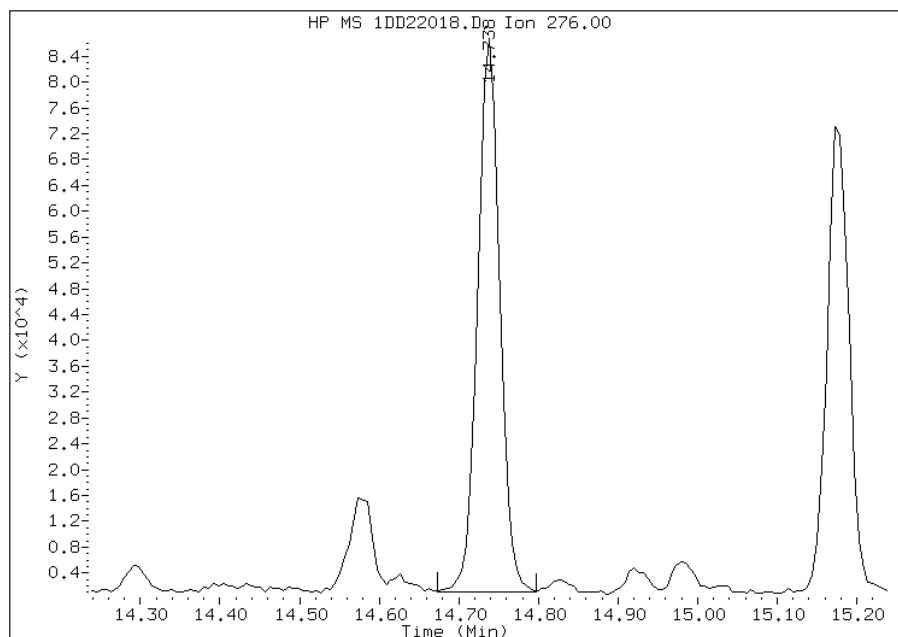


Manual Integration Report

Data File: 1DD22018.D
Inj. Date and Time: 22-APR-2013 16:23
Instrument ID: BSMSD.i
Client ID: CV1216A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

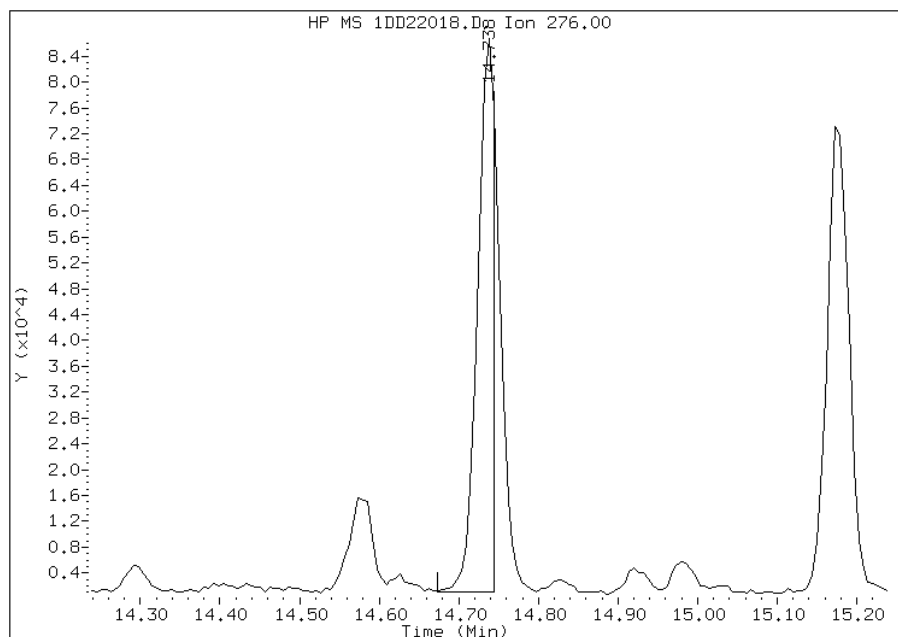
Processing Integration Results

RT: 14.74
Response: 163847
Amount: 3
Conc: 252



Manual Integration Results

RT: 14.74
Response: 125701
Amount: 2
Conc: 193



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 10:02
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 Client Sample ID: CV1216B-CS Lab Sample ID: 680-89328-22
 Matrix: Solid Lab File ID: 1DD22019.D
 Analysis Method: 8270C LL Date Collected: 04/11/2013 13:20
 Extract. Method: 3546 Date Extracted: 04/18/2013 15:43
 Sample wt/vol: 15.09(g) Date Analyzed: 04/22/2013 16:46
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 22.9 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136733 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	18	J	52	6.4
120-12-7	Anthracene	59		11	5.4
56-55-3	Benzo[a]anthracene	350		10	5.0
50-32-8	Benzo[a]pyrene	520		13	6.7
205-99-2	Benzo[b]fluoranthene	910		16	7.9
191-24-2	Benzo[g,h,i]perylene	300		26	5.7
207-08-9	Benzo[k]fluoranthene	330		10	4.6
218-01-9	Chrysene	470		12	5.8
53-70-3	Dibenz(a,h)anthracene	110		26	5.3
206-44-0	Fluoranthene	440		26	5.2
86-73-7	Fluorene	21	J	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	290		26	9.2
90-12-0	1-Methylnaphthalene	38	J	52	5.7
91-57-6	2-Methylnaphthalene	53		52	9.2
91-20-3	Naphthalene	64		52	5.7
85-01-8	Phenanthrene	210		10	5.0
129-00-0	Pyrene	330		26	4.8

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22019.D
 Lab Smp Id: 680-89328-A-22-A Client Smp ID: CV1216B-CS
 Inj Date : 22-APR-2013 16:46
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89328-A-22-A
 Misc Info : 680-89328-A-22-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
 Meth Date : 22-Apr-2013 11:04 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:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.090	Weight Extracted
M	22.912	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				ON-COLUMN (ug/l)	FINAL (ug/Kg)
			MASS	RT	EXP RT	REL RT		
* 1 Naphthalene-d8	136	6.063	6.054	(1.000)	1932979	40.0000		
* 6 Acenaphthene-d10	164	7.744	7.734	(1.000)	1126979	40.0000		
* 9 Phenanthrene-d10	188	9.007	8.998	(1.000)	1885969	40.0000		
\$ 13 o-Terphenyl	230	9.312	9.309	(1.034)	199455	7.01896	600	
* 17 Chrysene-d12	240	11.322	11.307	(1.000)	2187863	40.0000		
* 22 Perylene-d12	264	13.155	13.122	(1.000)	2043845	40.0000		
2 Naphthalene	128	6.081	6.077	(1.003)	35687	0.74278	64	
3 2-Methylnaphthalene	142	6.786	6.783	(1.119)	18985	0.61213	53	
4 1-Methylnaphthalene	142	6.880	6.877	(1.135)	13052	0.44563	38	
5 Acenaphthylene	152	7.614	7.611	(0.983)	10251	0.21491	18	
7 Acenaphthene	154	7.767	7.764	(1.003)	6774	0.23007	20	
8 Fluorene	166	8.214	8.204	(1.061)	8382	0.24040	21	
10 Phenanthrene	178	9.025	9.015	(1.002)	127814	2.46040	210	
11 Anthracene	178	9.060	9.056	(1.006)	35457	0.68768	59	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.207	9.197	(1.022)	28899	0.63543	55
14 Fluoranthene	202	10.006	10.002	(1.111)	272027	5.08867	440
15 Pyrene	202	10.194	10.184	(0.900)	250026	3.80549	330
16 Benzo(a)anthracene	228	11.304	11.289	(0.998)	260446	4.11737	350
18 Chrysene	228	11.345	11.330	(1.002)	321579	5.42189	470
19 Benzo(b)fluoranthene	252	12.609	12.582	(0.958)	542921	10.6339	910
20 Benzo(k)fluoranthene	252	12.638	12.623	(0.961)	208791	3.88178	330
21 Benzo(a)pyrene	252	13.055	13.034	(0.992)	307662	5.99741	520
23 Indeno(1,2,3-cd)pyrene	276	14.735	14.709	(1.120)	181895	3.32532	280(M)
24 Dibenzo(a,h)anthracene	278	14.753	14.732	(1.121)	65708	1.27563	110
25 Benzo(g,h,i)perylene	276	15.176	15.143	(1.154)	181841	3.45255	300

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD22019.D

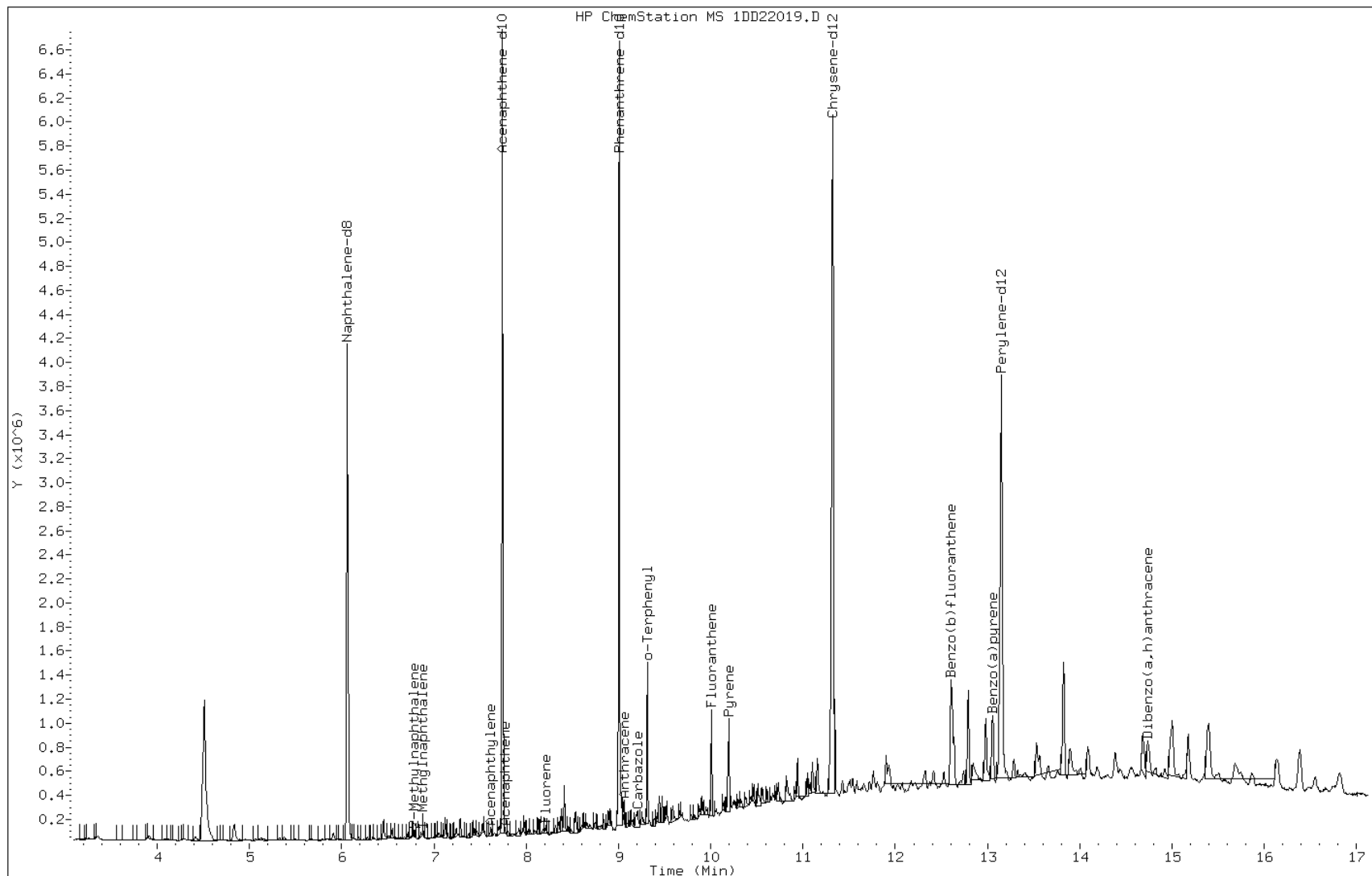
Date: 22-APR-2013 16:46

Client ID: CV1216B-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-22-A

Operator: SCC



Data File: 1DD22019.D

Date: 22-APR-2013 16:46

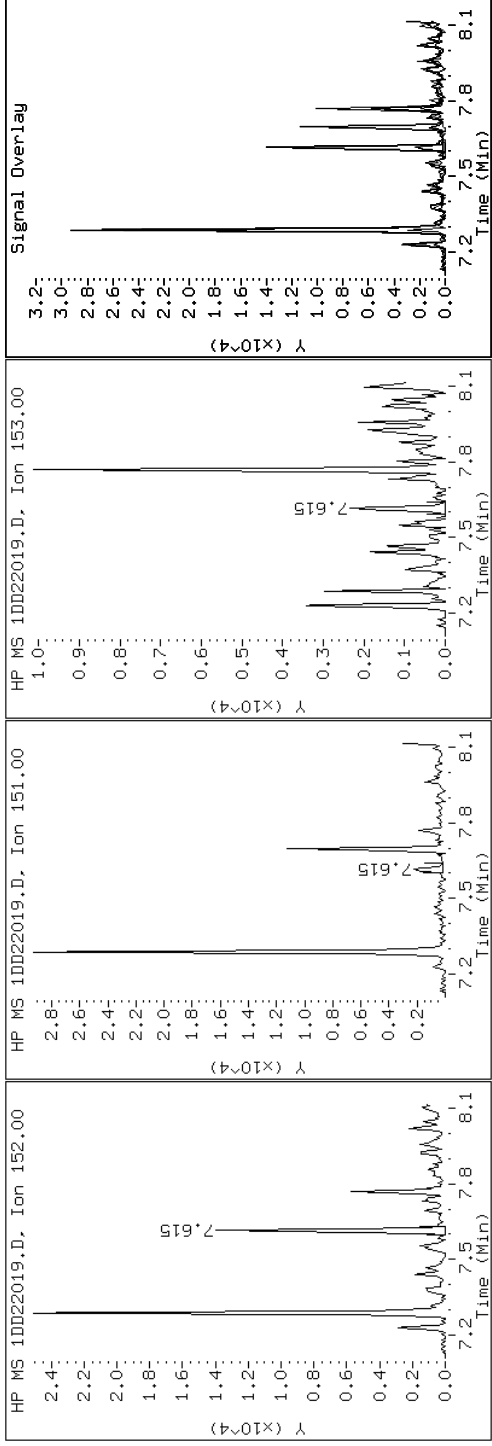
Client ID: CV1216B-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-22-A

Operator: SCC

5 Acenaphthylene



Data File: 1DD22019.D

Date: 22-APR-2013 16:46

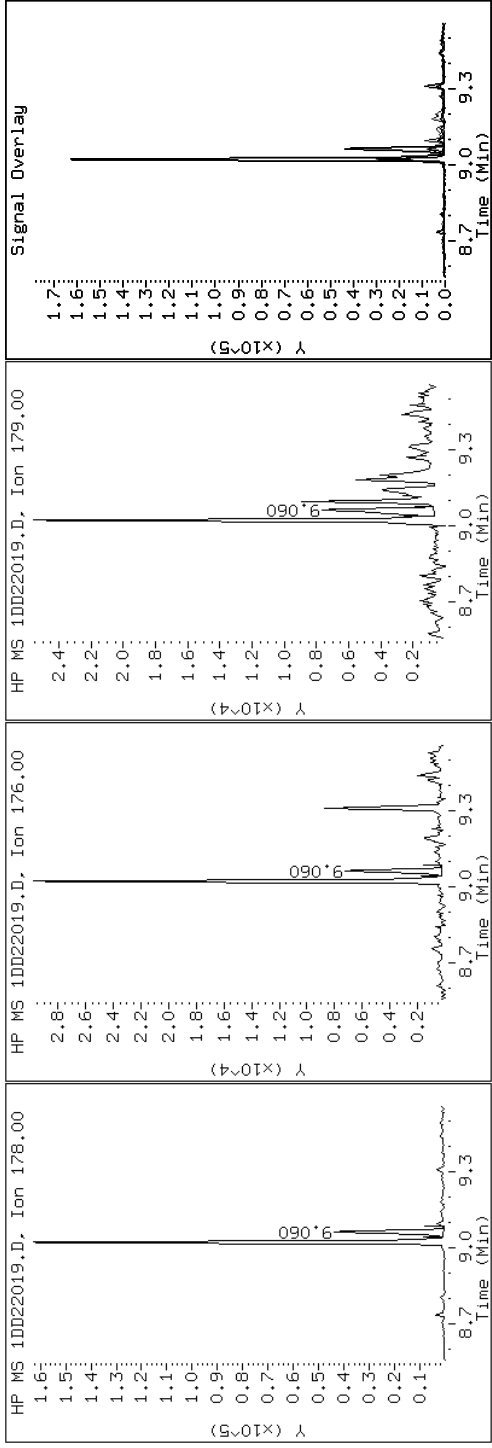
Client ID: CV1216B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-22-A

Operator: SCC

11 Anthracene



Data File: 1DD22019.D

Date: 22-APR-2013 16:46

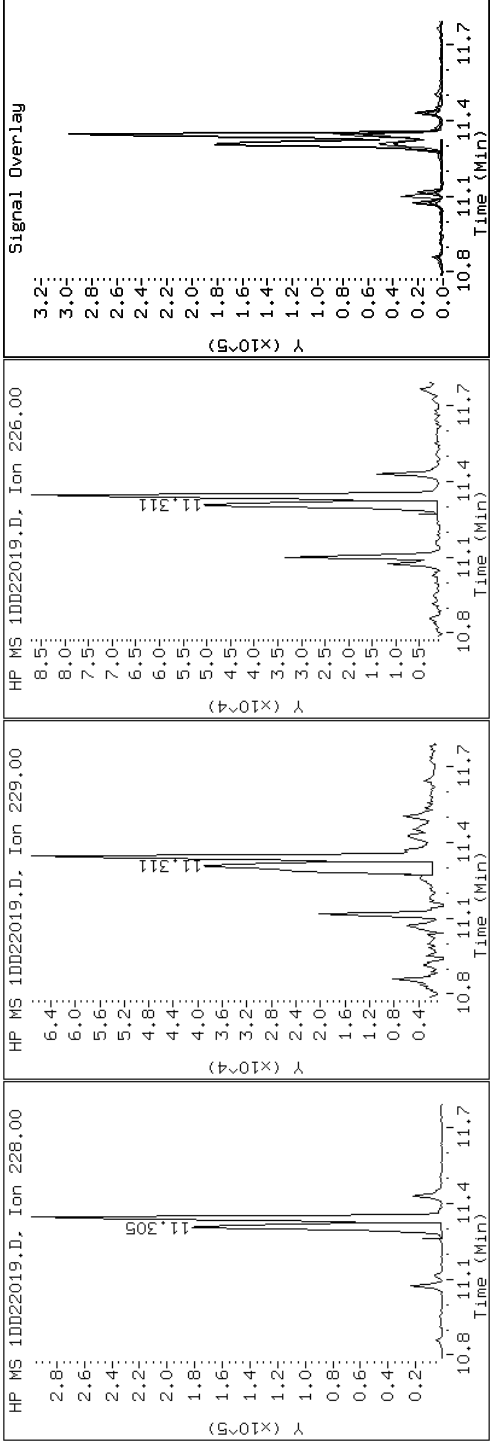
Client ID: CV1216B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-22-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD22019.D

Date: 22-APR-2013 16:46

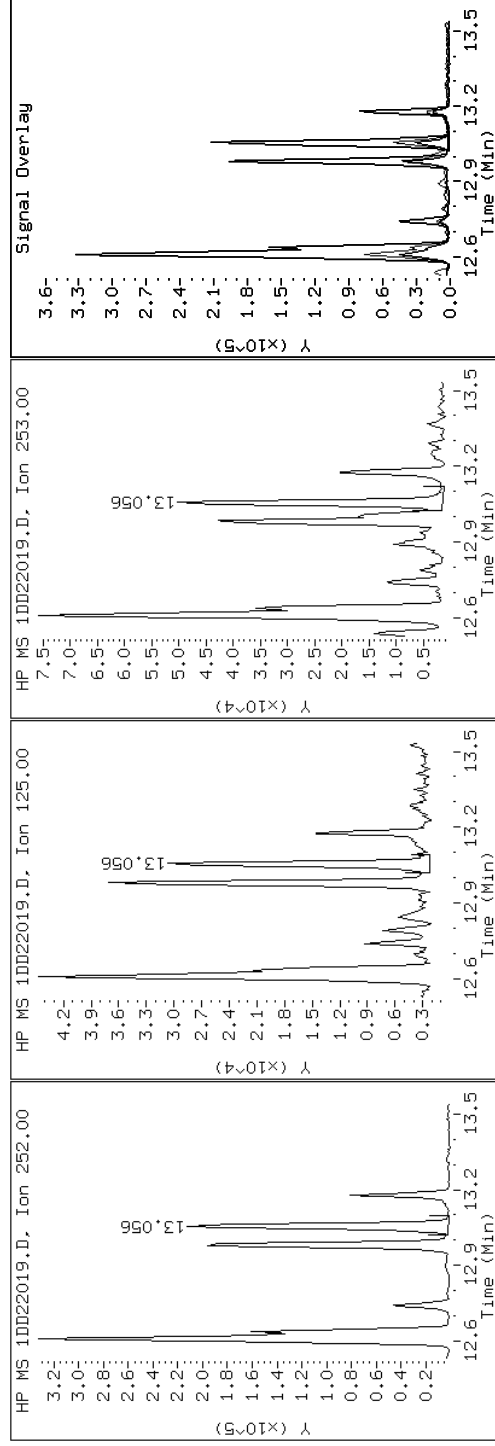
Client ID: CV1216B-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-22-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD22019.D

Date: 22-APR-2013 16:46

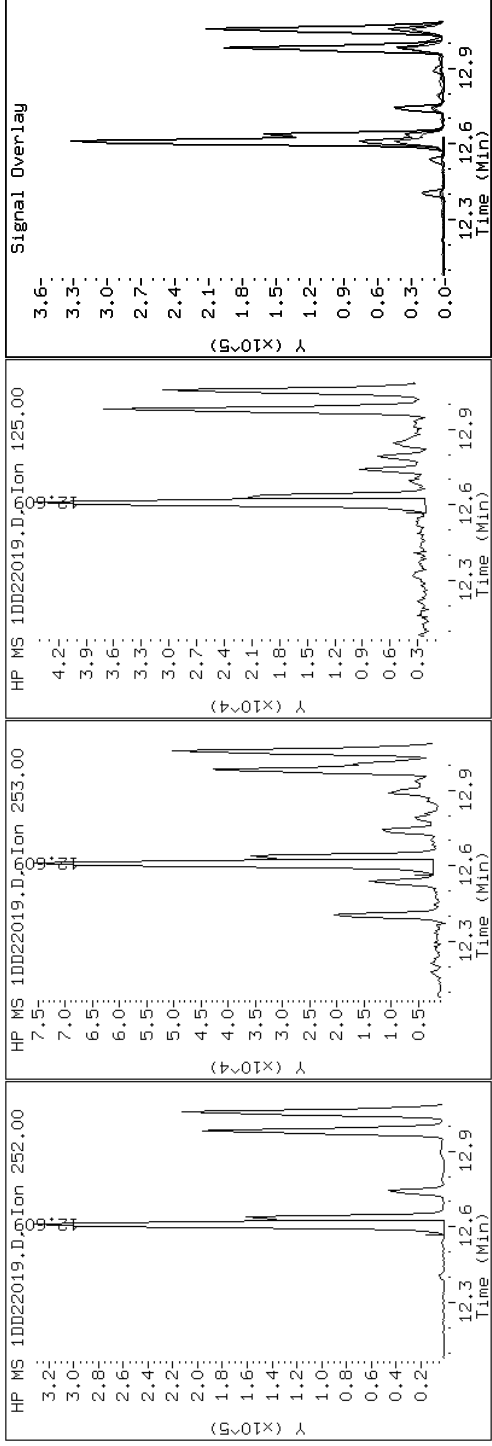
Client ID: CV1216B-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-22-A

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD22019.D

Date: 22-APR-2013 16:46

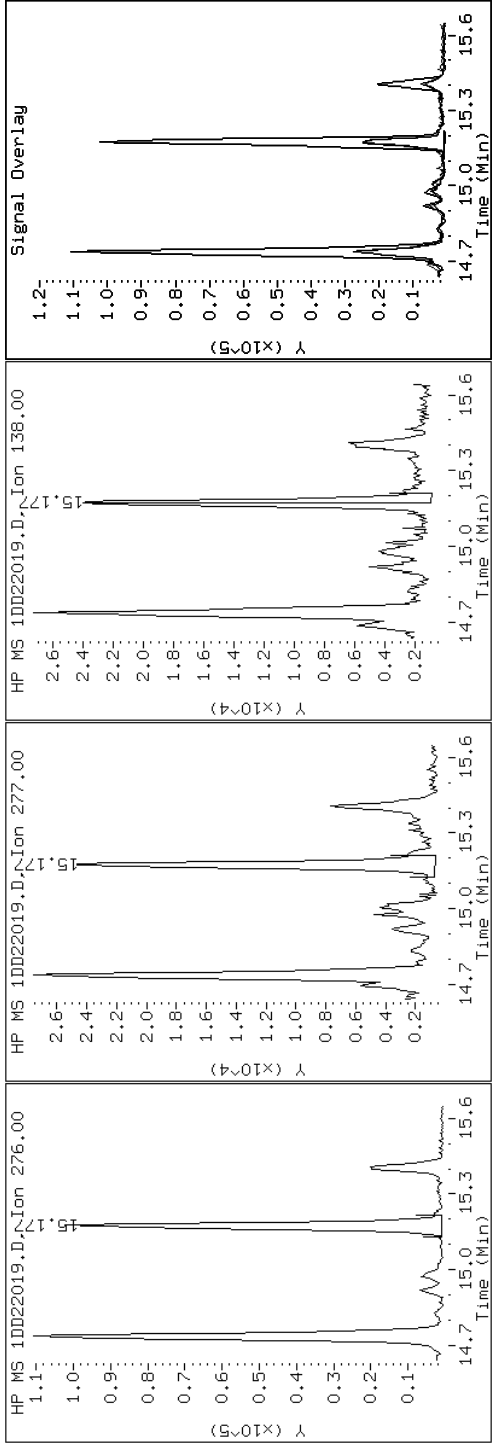
Client ID: CV1216B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-22-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD22019.D

Date: 22-APR-2013 16:46

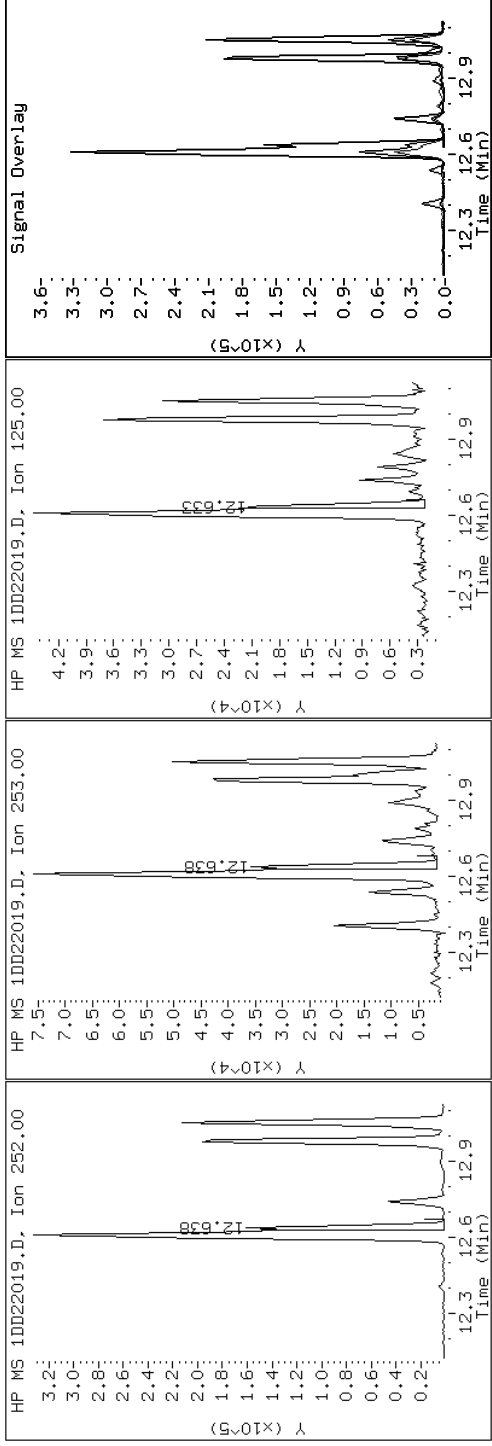
Client ID: CV1216B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-22-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD22019.D

Date: 22-APR-2013 16:46

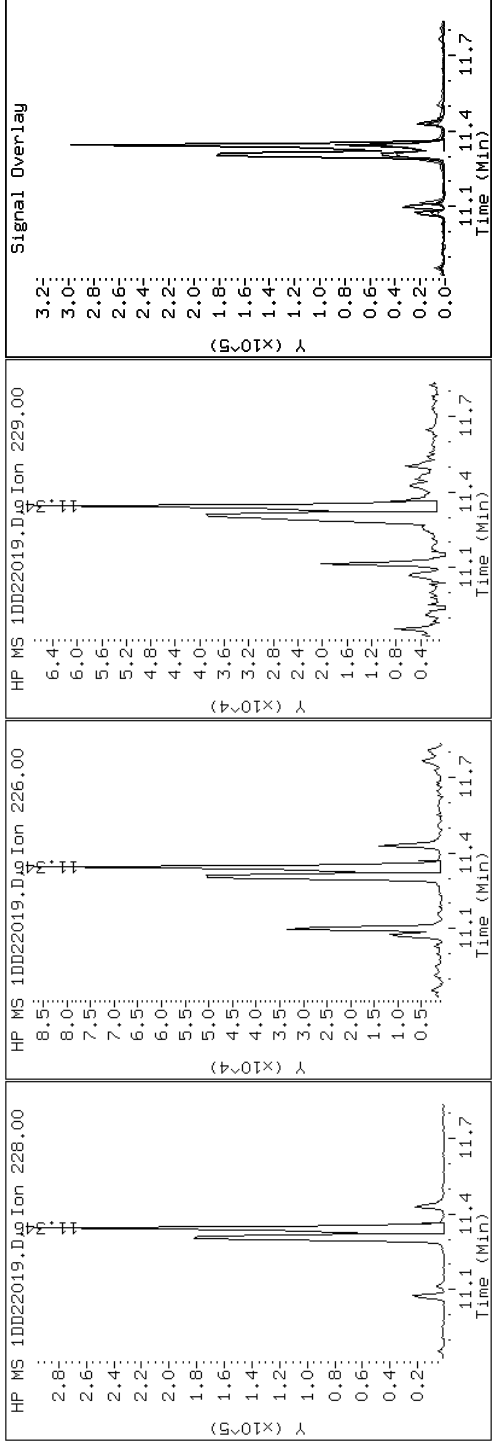
Client ID: CV1216B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-22-A

Operator: SCC

18 Chrysene



Data File: 1DD22019.D

Date: 22-APR-2013 16:46

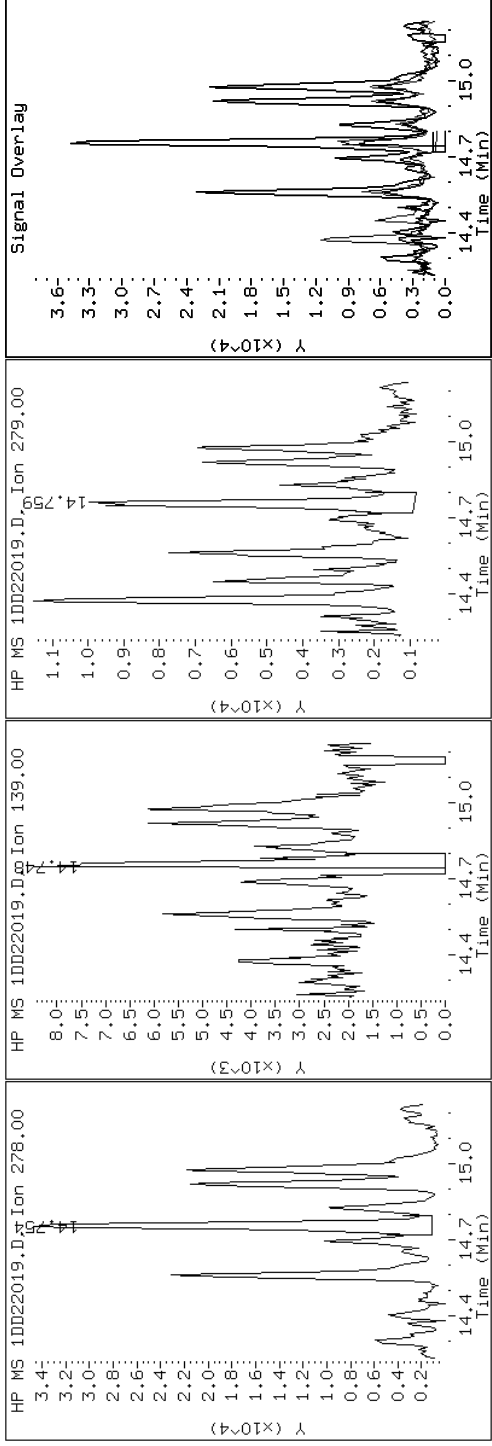
Client ID: CV1216B-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-22-A

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD22019.D

Date: 22-APR-2013 16:46

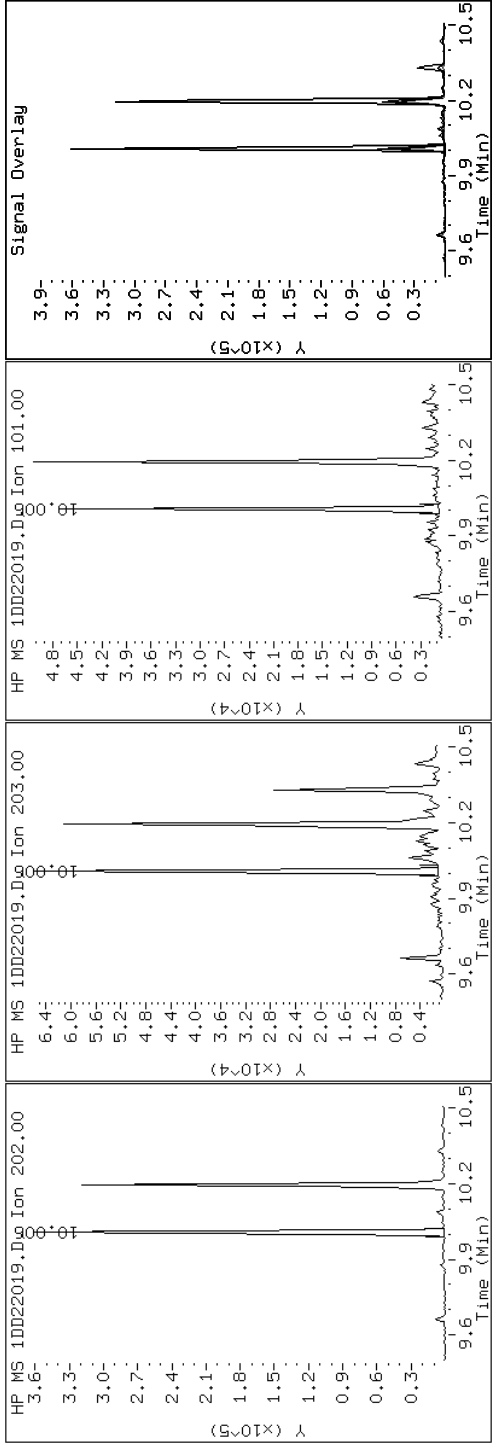
Client ID: CV1216B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-22-A

Operator: SCC

14 Fluoranthene



Data File: 1DD22019.D

Date: 22-APR-2013 16:46

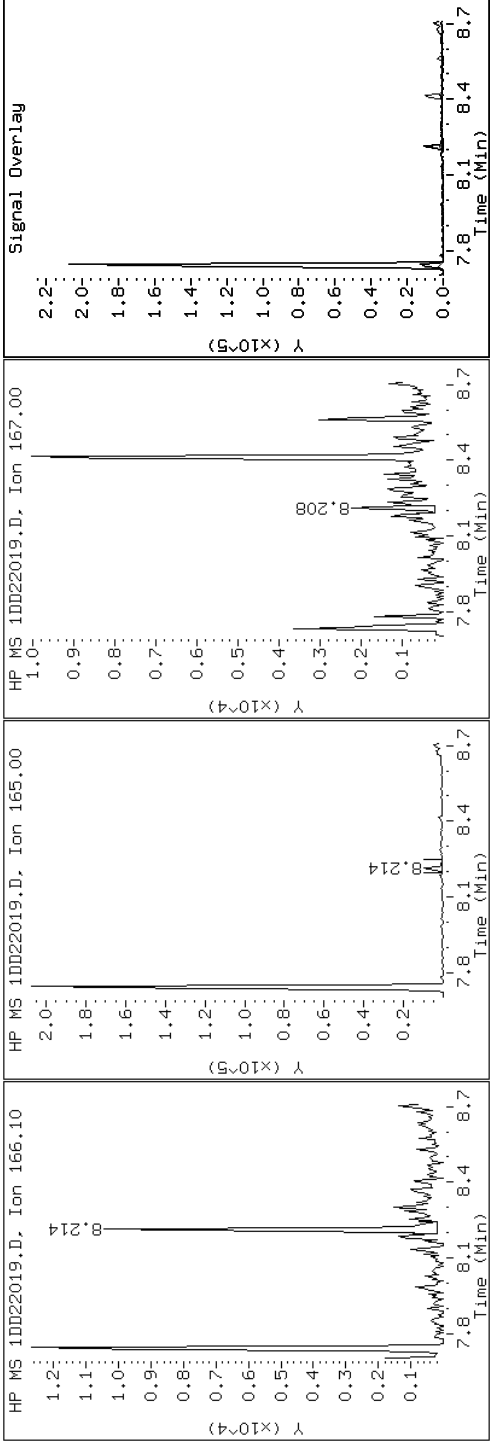
Client ID: CVI216B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-22-A

Operator: SCC

8 Fluorene



Data File: 1DD22019.D

Date: 22-APR-2013 16:46

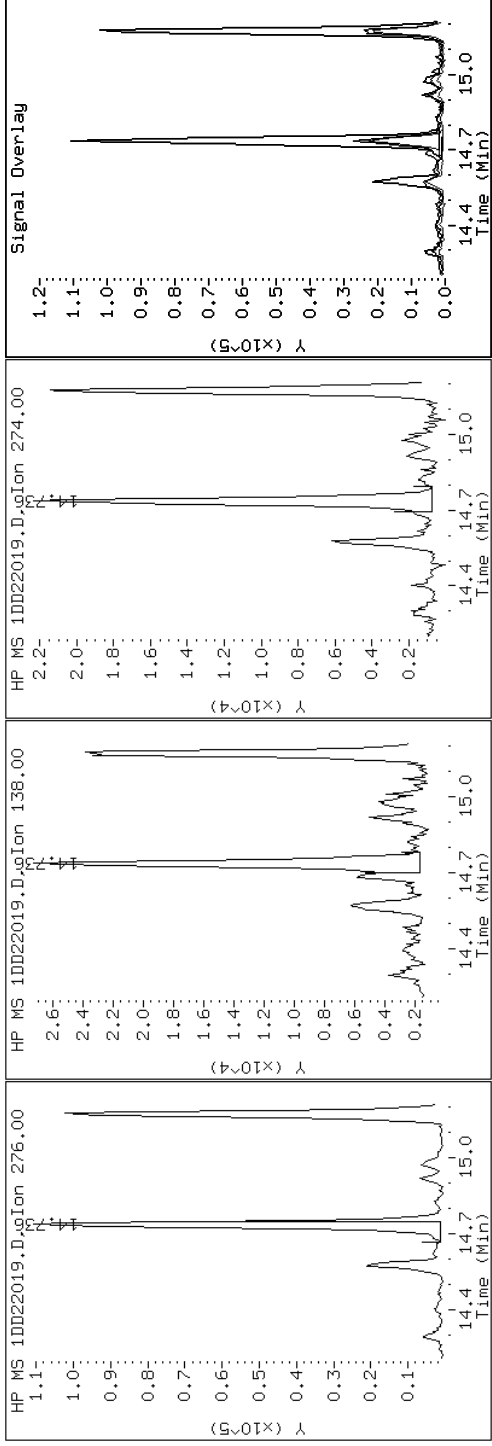
Client ID: CV1216B-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-22-A

Operator: SCC

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



Data File: 1DD22019.D

Date: 22-APR-2013 16:46

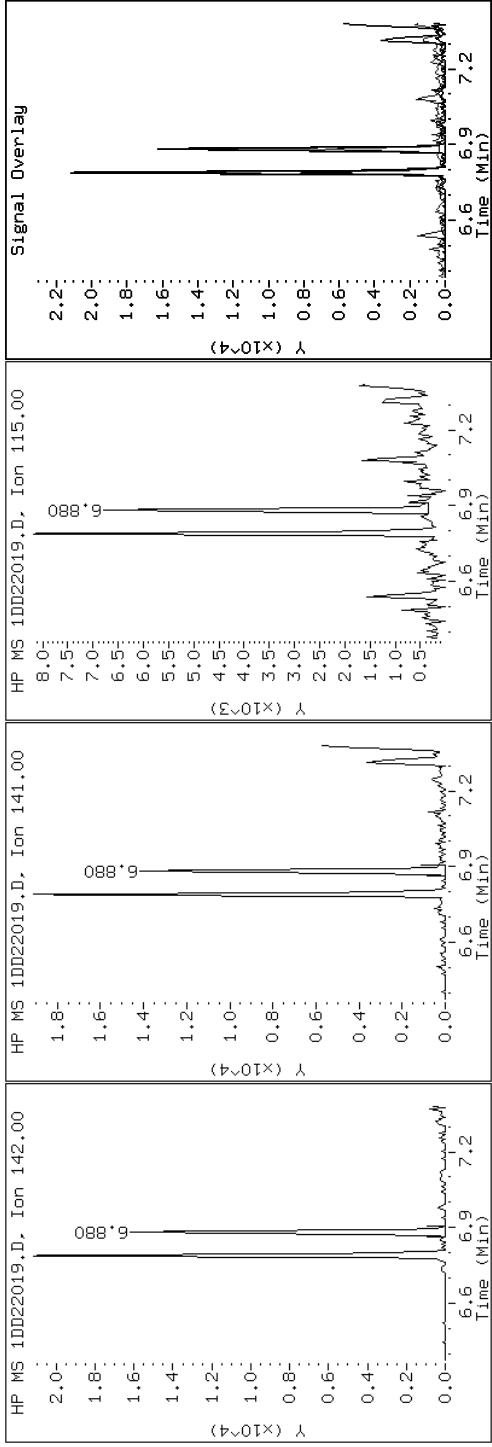
Client ID: CV1216B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-22-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD22019.D

Date: 22-APR-2013 16:46

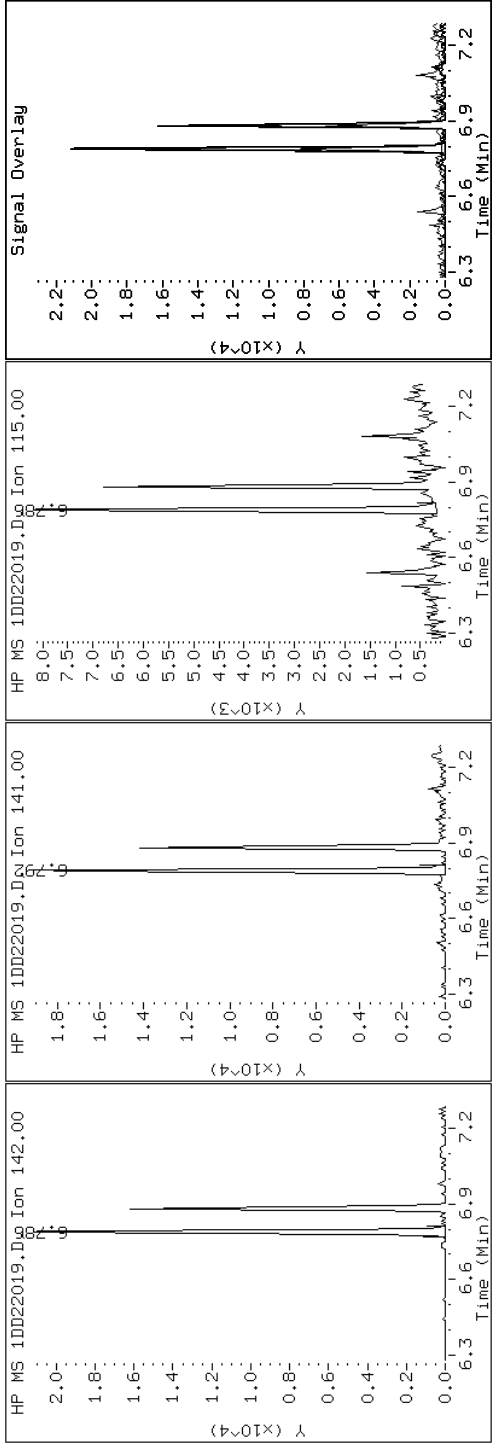
Client ID: CV1216B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-22-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD22019.D

Date: 22-APR-2013 16:46

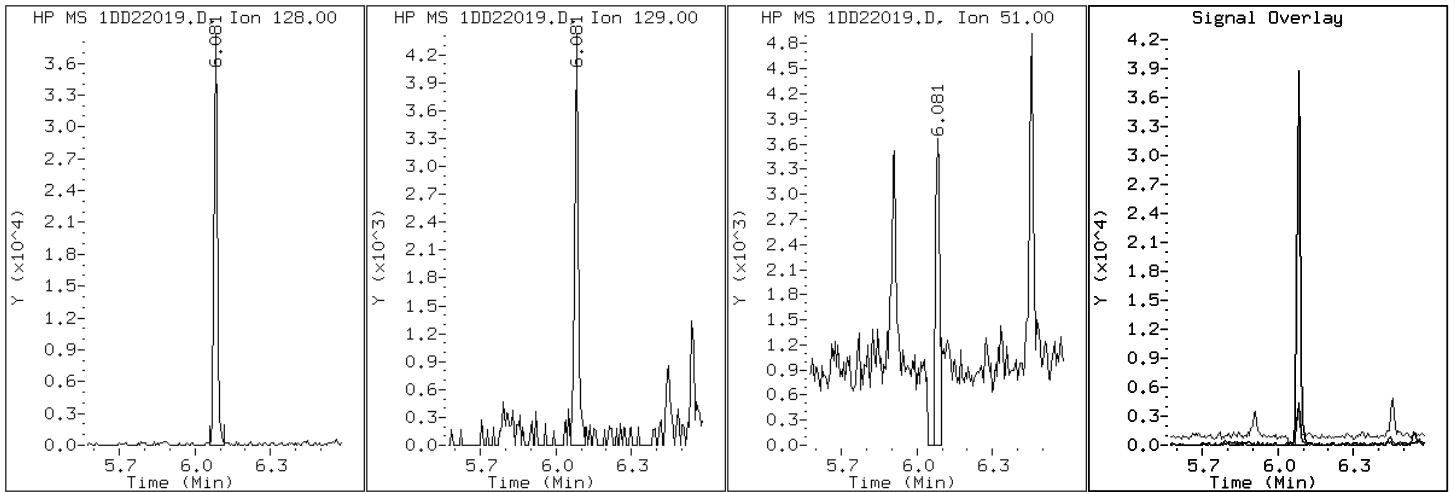
Client ID: CV1216B-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-22-A

Operator: SCC

2 Naphthalene



Data File: 1DD22019.D

Date: 22-APR-2013 16:46

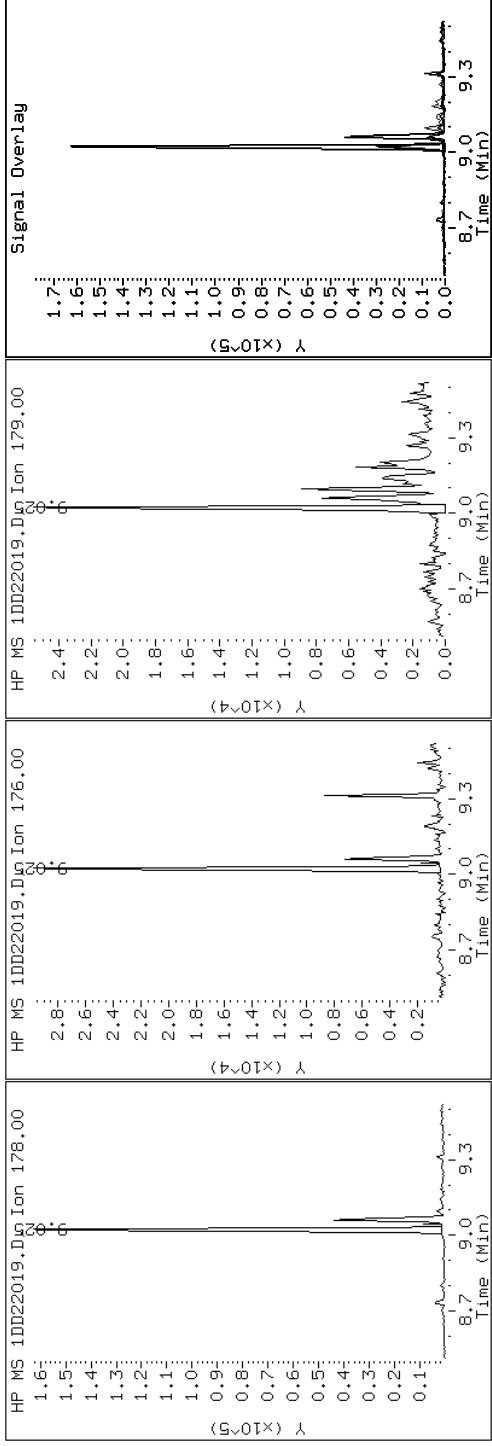
Client ID: CV1216B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-22-A

Operator: SCC

10 Phenanthrene



Data File: 1DD22019.D

Date: 22-APR-2013 16:46

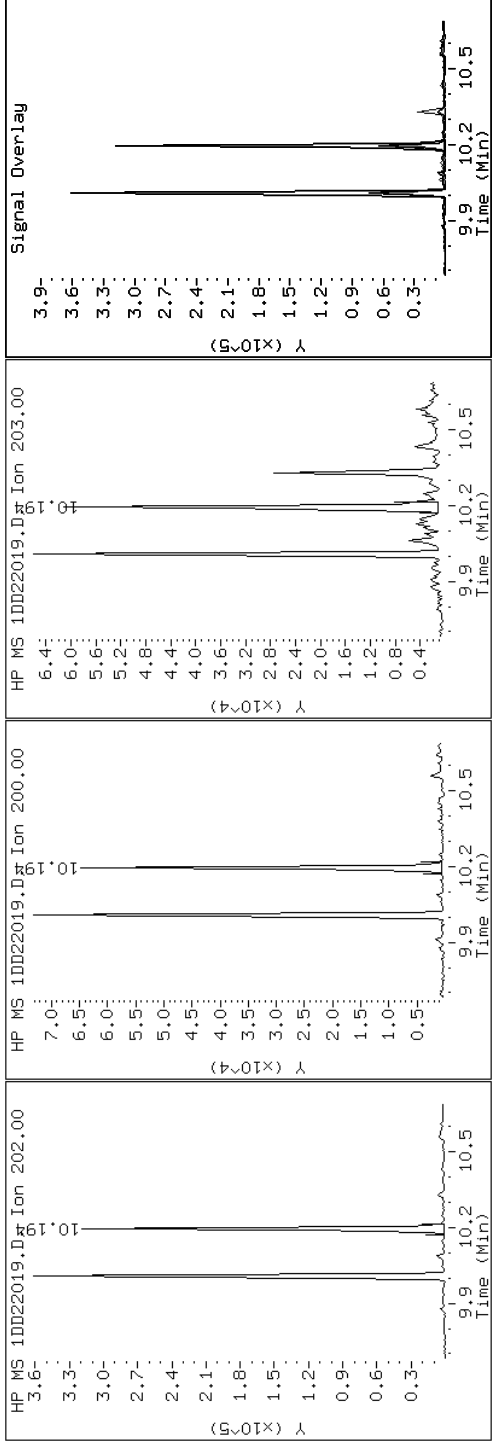
Client ID: CV1216B-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-22-A

Operator: SCC

15 Pyrene

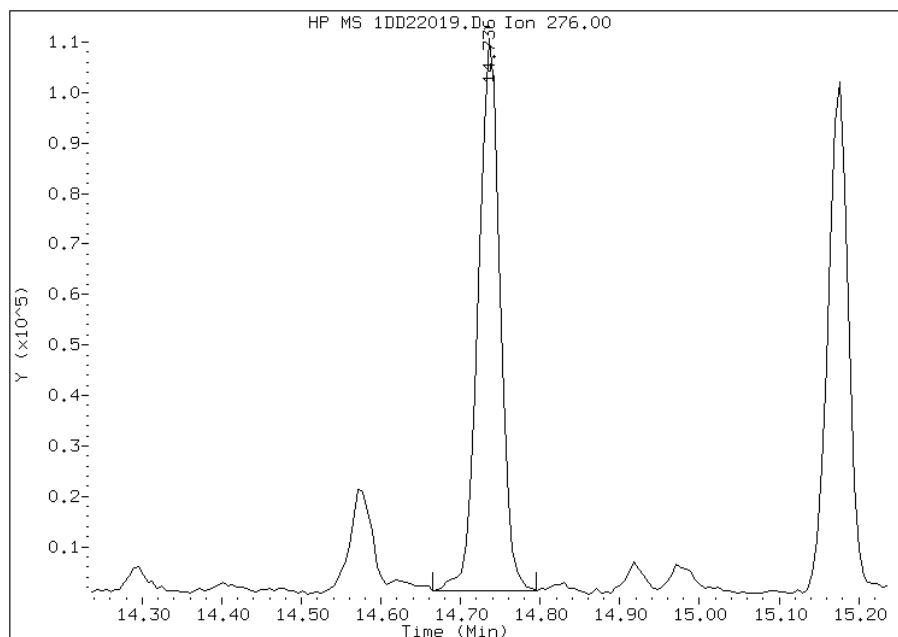


Manual Integration Report

Data File: 1DD22019.D
Inj. Date and Time: 22-APR-2013 16:46
Instrument ID: BSMSD.i
Client ID: CV1216B-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

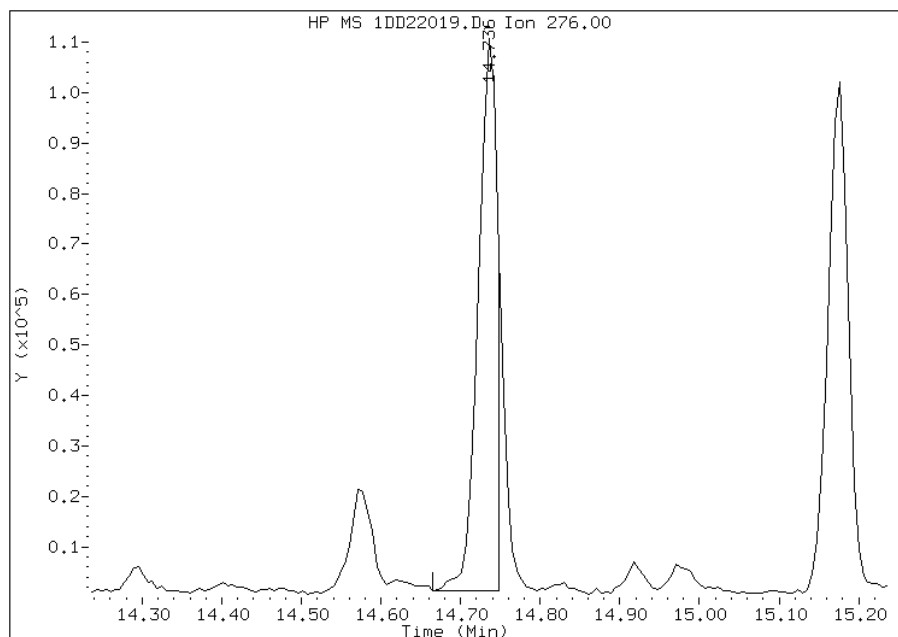
Processing Integration Results

RT: 14.74
Response: 207397
Amount: 4
Conc: 326



Manual Integration Results

RT: 14.74
Response: 181895
Amount: 3
Conc: 286



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 10:03
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 Client Sample ID: CV1335A-CS Lab Sample ID: 680-89328-23
 Matrix: Solid Lab File ID: 1DD22020.D
 Analysis Method: 8270C LL Date Collected: 04/11/2013 13:40
 Extract. Method: 3546 Date Extracted: 04/18/2013 15:43
 Sample wt/vol: 14.96(g) Date Analyzed: 04/22/2013 17:09
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 22.2 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136733 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	28	J	130	26
208-96-8	Acenaphthylene	67		52	6.4
120-12-7	Anthracene	100		11	5.4
56-55-3	Benzo[a]anthracene	920		10	5.0
50-32-8	Benzo[a]pyrene	1400		13	6.7
205-99-2	Benzo[b]fluoranthene	2900		16	7.9
191-24-2	Benzo[g,h,i]perylene	850		26	5.7
207-08-9	Benzo[k]fluoranthene	900		10	4.6
218-01-9	Chrysene	1100		12	5.8
53-70-3	Dibenz(a,h)anthracene	370		26	5.3
206-44-0	Fluoranthene	1200		26	5.2
86-73-7	Fluorene	28		26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	810		26	9.1
90-12-0	1-Methylnaphthalene	50	J	52	5.7
91-57-6	2-Methylnaphthalene	60		52	9.1
91-20-3	Naphthalene	58		52	5.7
85-01-8	Phenanthrene	460		10	5.0
129-00-0	Pyrene	830		26	4.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	59		30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22020.D
 Lab Smp Id: 680-89328-A-23-A Client Smp ID: CV1335A-CS
 Inj Date : 22-APR-2013 17:09
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89328-A-23-A
 Misc Info : 680-89328-A-23-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
 Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 20
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	22.152	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL			
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)
* 1 Naphthalene-d8	136	6.061	6.054	(1.000)	2000395	40.0000	
* 6 Acenaphthene-d10	164	7.742	7.734	(1.000)	1179794	40.0000	
* 9 Phenanthrene-d10	188	9.005	8.998	(1.000)	1956318	40.0000	
\$ 13 o-Terphenyl	230	9.310	9.309	(1.034)	172742	5.86032	500
* 17 Chrysene-d12	240	11.326	11.307	(1.000)	2364789	40.0000	
* 22 Perylene-d12	264	13.159	13.122	(1.000)	2072435	40.0000	(H)
2 Naphthalene	128	6.085	6.077	(1.004)	33557	0.67491	58
3 2-Methylnaphthalene	142	6.790	6.783	(1.120)	22490	0.70070	60
4 1-Methylnaphthalene	142	6.884	6.877	(1.136)	17694	0.58377	50
5 Acenaphthylene	152	7.612	7.611	(0.983)	39110	0.78323	67
7 Acenaphthene	154	7.765	7.764	(1.003)	10227	0.33180	28
8 Fluorene	166	8.212	8.204	(1.061)	11724	0.32120	28
10 Phenanthrene	178	9.022	9.015	(1.002)	290887	5.39818	460
11 Anthracene	178	9.064	9.056	(1.007)	63403	1.18547	100

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.205	9.197	(1.022)	33244	0.70468	60
14 Fluoranthene	202	10.009	10.002	(1.112)	757297	13.6569	1200
15 Pyrene	202	10.197	10.184	(0.900)	684199	9.63465	830
16 Benzo(a)anthracene	228	11.314	11.289	(0.999)	731859	10.7043	920
18 Chrysene	228	11.349	11.330	(1.002)	836173	13.0433	1100
19 Benzo(b)fluoranthene	252	12.624	12.582	(0.959)	1757673	33.9516	2900(H)
20 Benzo(k)fluoranthene	252	12.653	12.623	(0.962)	571654	10.4814	900(H)
21 Benzo(a)pyrene	252	13.065	13.034	(0.993)	829041	15.9380	1400(H)
23 Indeno(1,2,3-cd)pyrene	276	14.757	14.709	(1.121)	522831	9.42629	810(MH)
24 Dibenzo(a,h)anthracene	278	14.769	14.732	(1.122)	223791	4.28466	370(H)
25 Benzo(g,h,i)perylene	276	15.198	15.143	(1.155)	531661	9.95521	850(H)

QC Flag Legend

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

Data File: 1DD22020.D

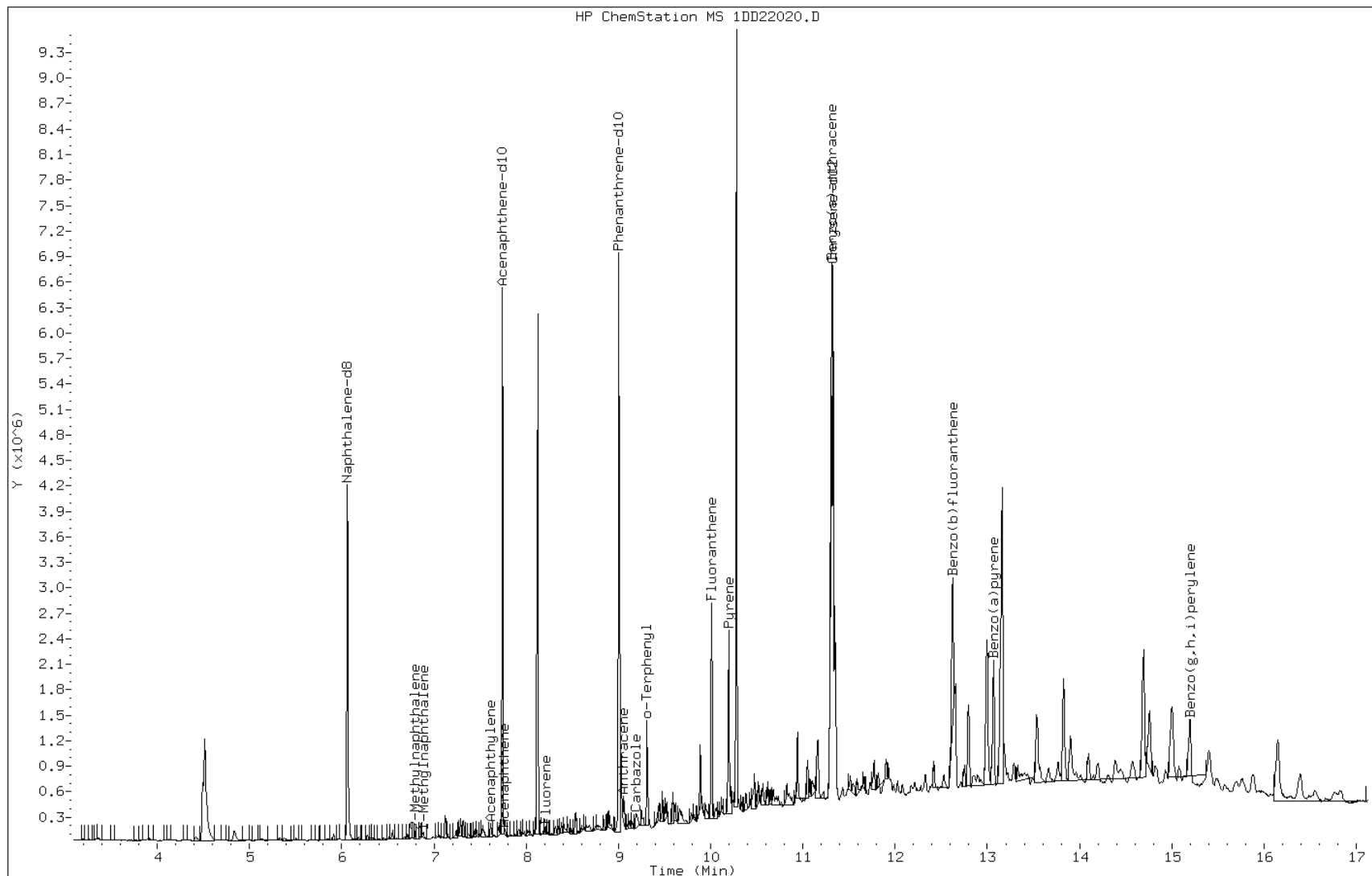
Date: 22-APR-2013 17:09

Client ID: CV1335A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-23-A

Operator: SCC



Data File: 1DD22020.D

Date: 22-APR-2013 17:09

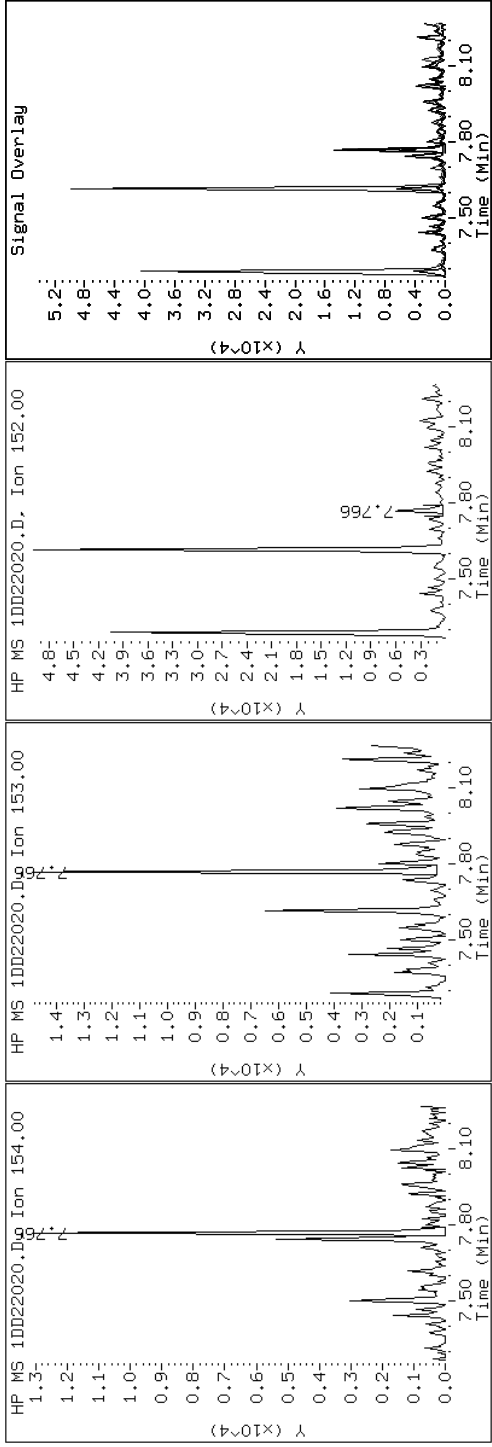
Client ID: CV1335A-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-23-A

Operator: SCC

7 Acenaphthene



Data File: 1DD22020.D

Date: 22-APR-2013 17:09

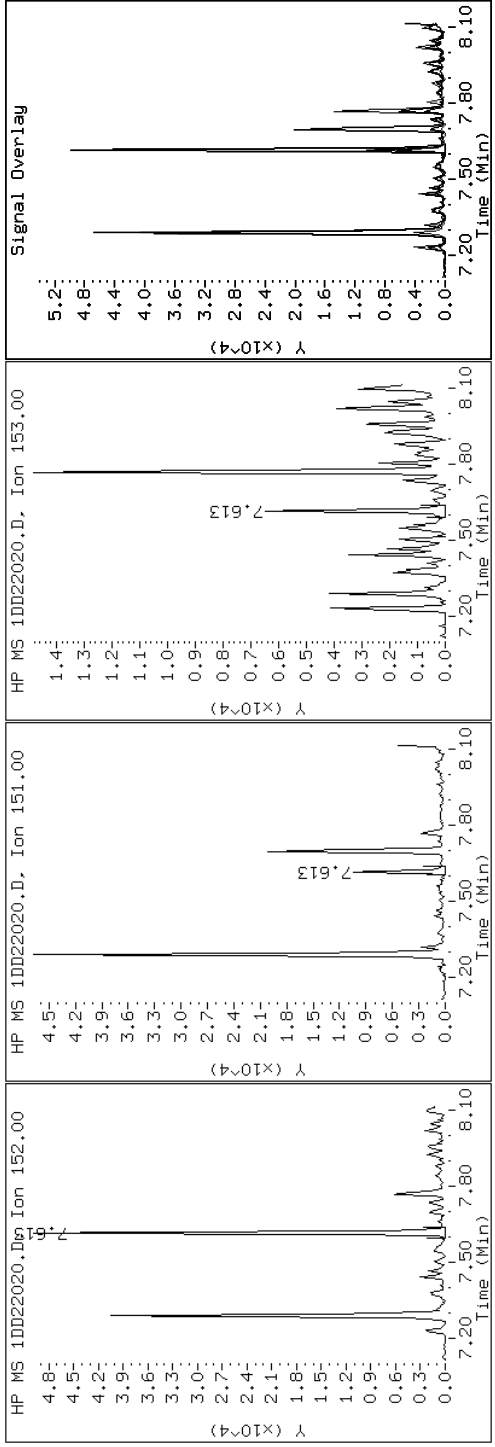
Client ID: CV1335A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-23-A

Operator: SCC

5 Acenaphthylene



Data File: 1DD22020.D

Date: 22-APR-2013 17:09

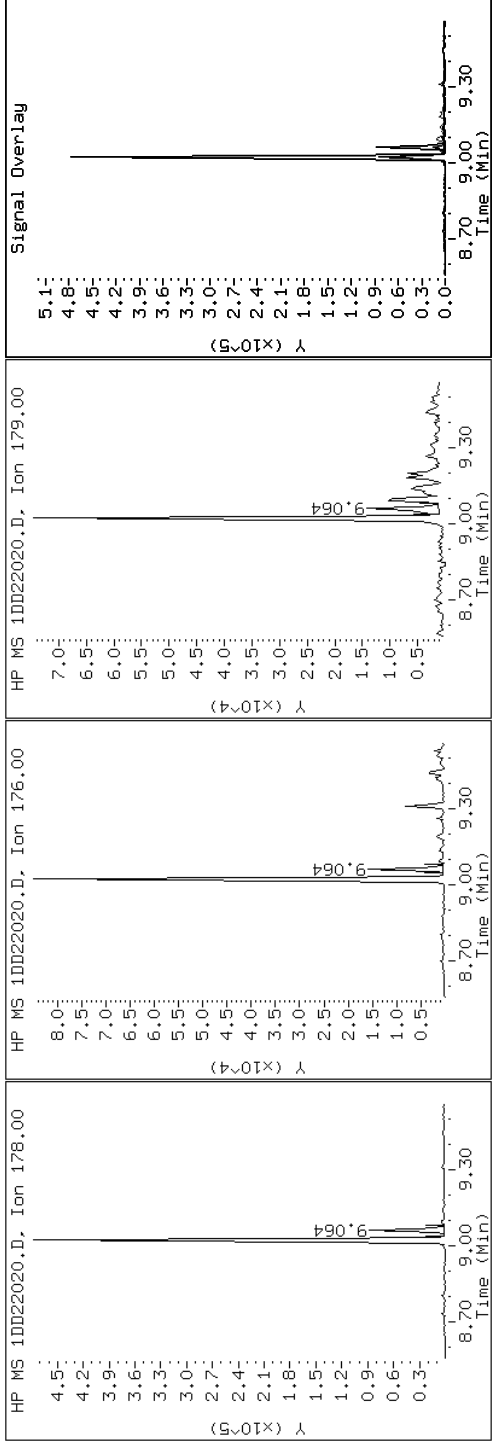
Client ID: CV1335A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-23-A

Operator: SCC

11 Anthracene



Data File: 1DD22020.D

Date: 22-APR-2013 17:09

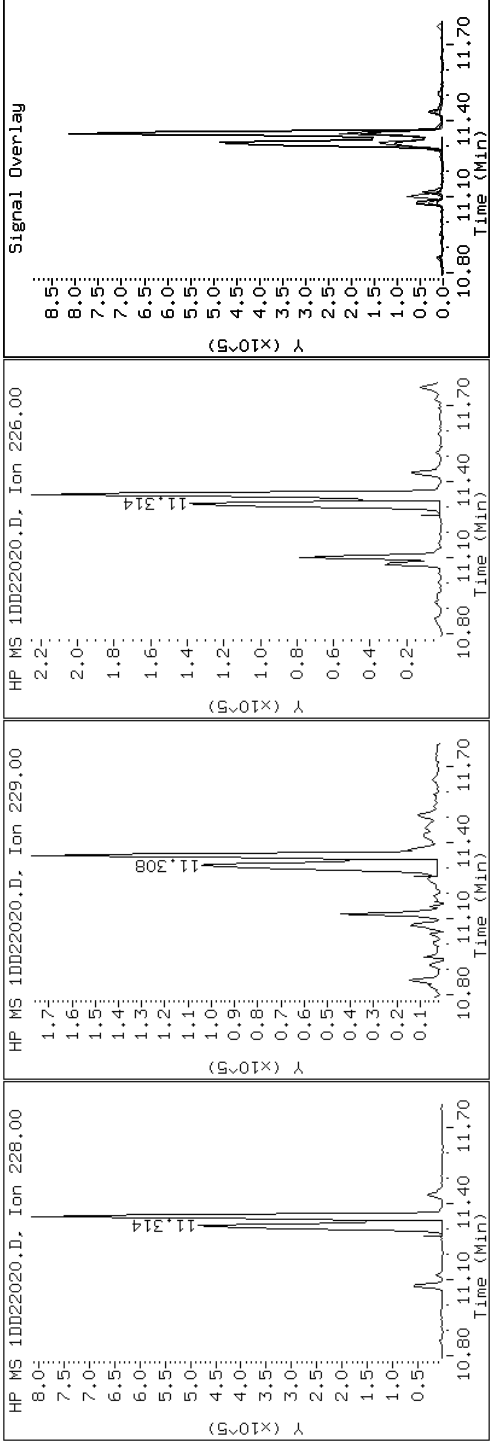
Client ID: CV1335A-CS

Instrument: BSMMSD.i

Sample Info: 680-89328-A-23-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD22020.D

Date: 22-APR-2013 17:09

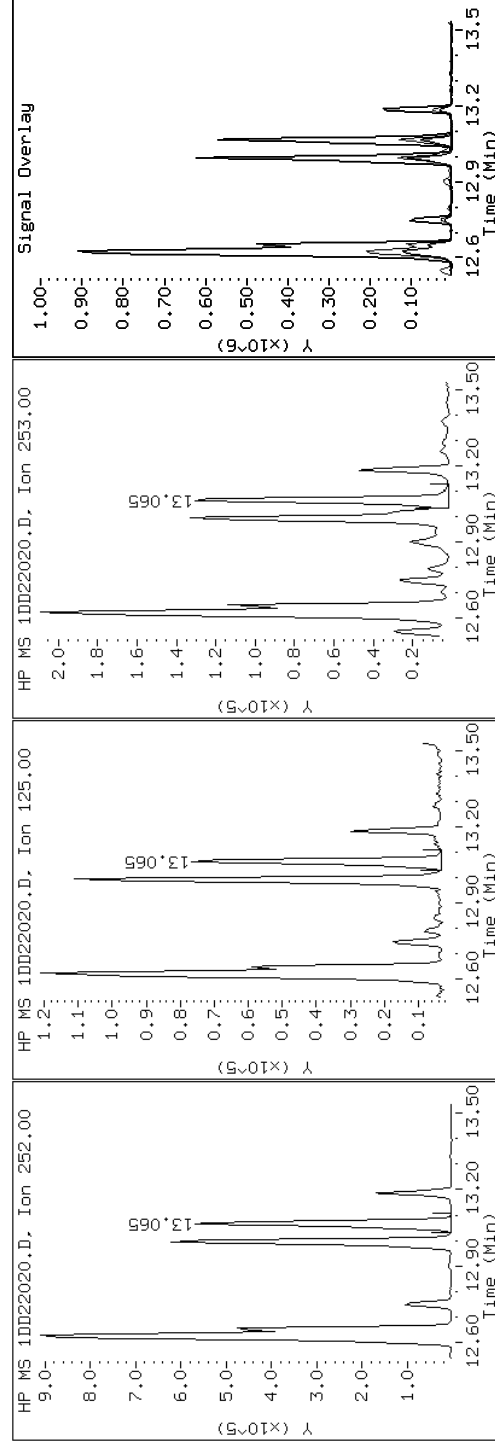
Client ID: CV1335A-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-23-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD22020.D

Date: 22-APR-2013 17:09

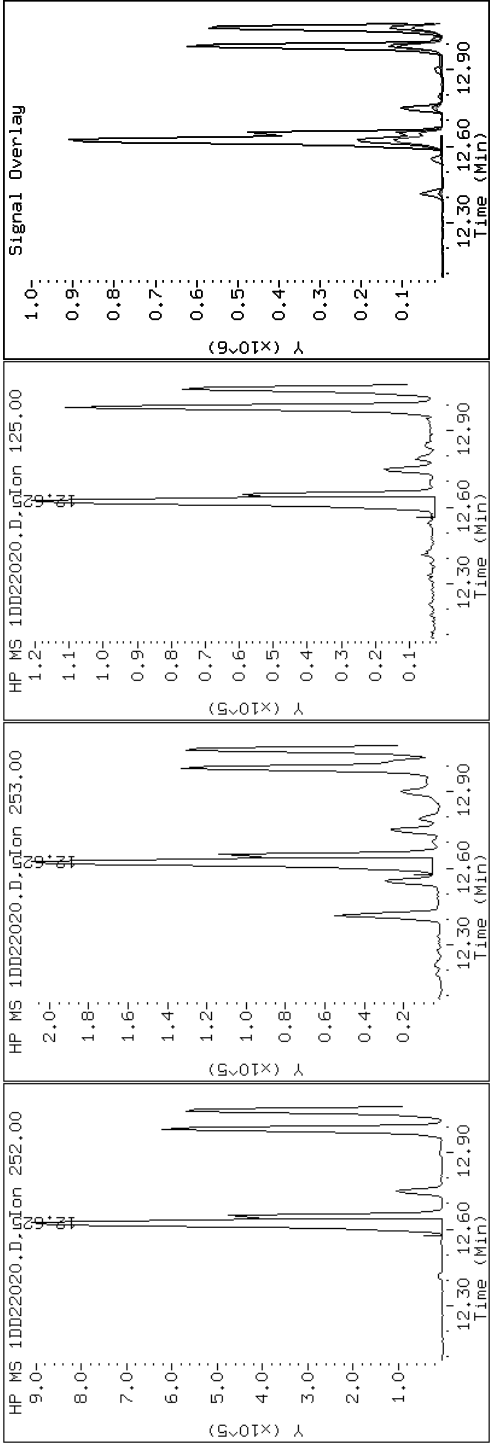
Client ID: CV1335A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-23-A

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD22020.D

Date: 22-APR-2013 17:09

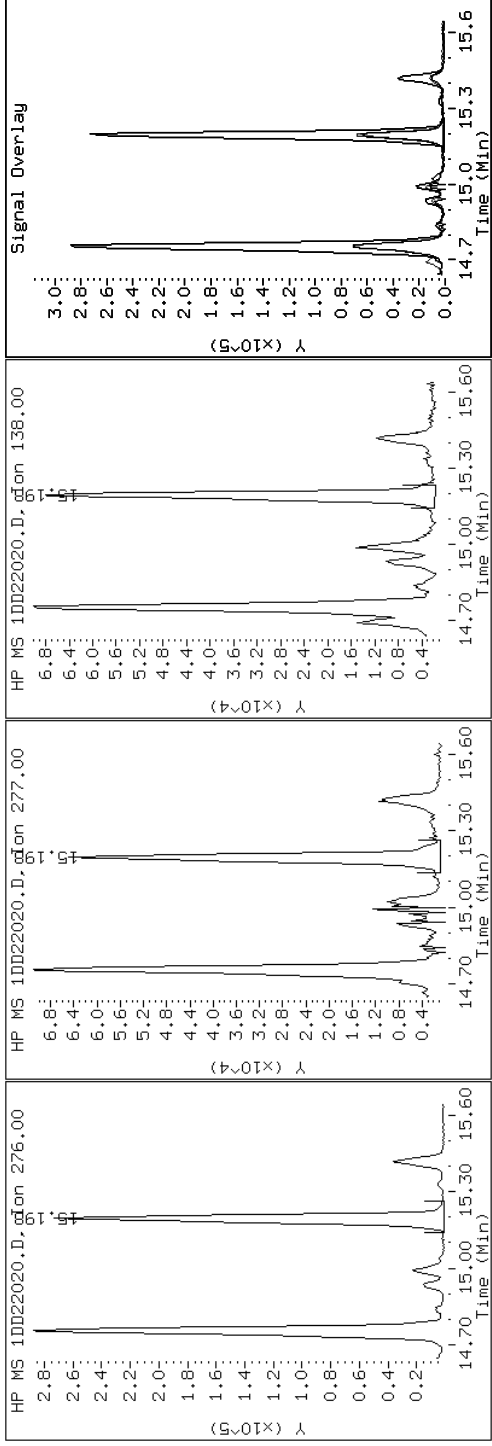
Client ID: CV1335A-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-23-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD22020.D

Date: 22-APR-2013 17:09

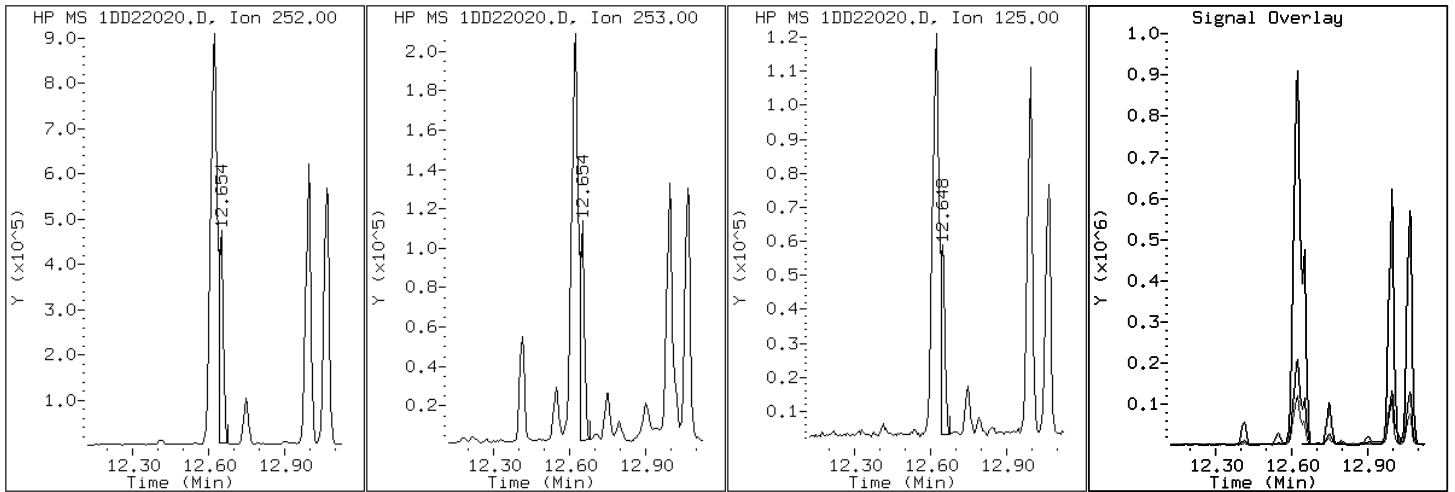
Client ID: CV1335A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-23-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD22020.D

Date: 22-APR-2013 17:09

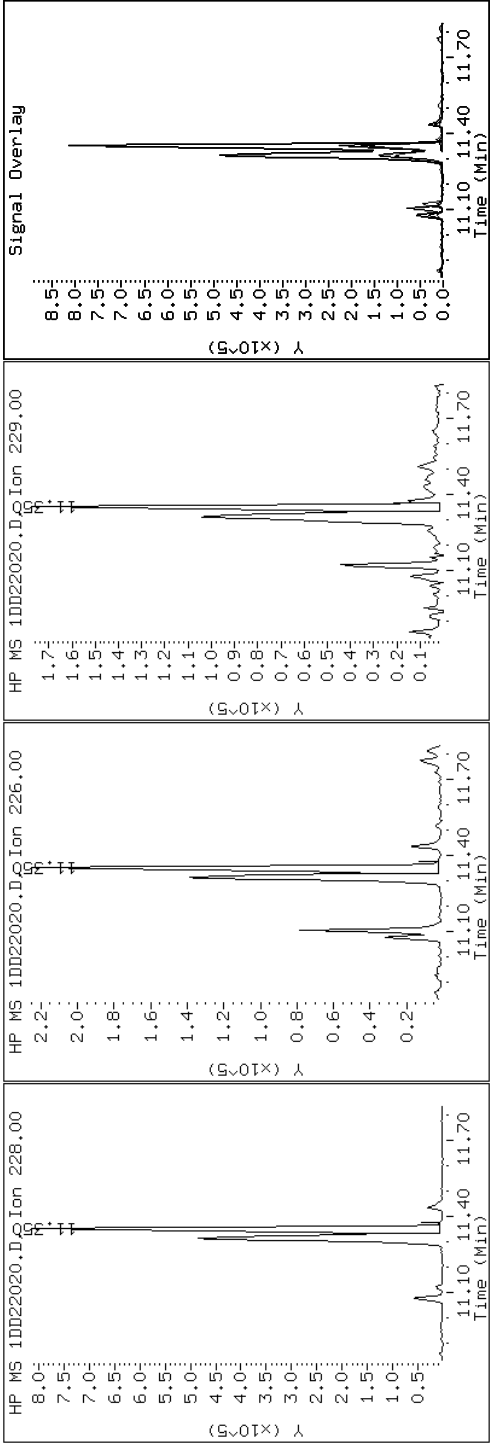
Client ID: CV1335A-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-23-A

Operator: SCC

18 Chrysene



Data File: 1DD22020.D

Date: 22-APR-2013 17:09

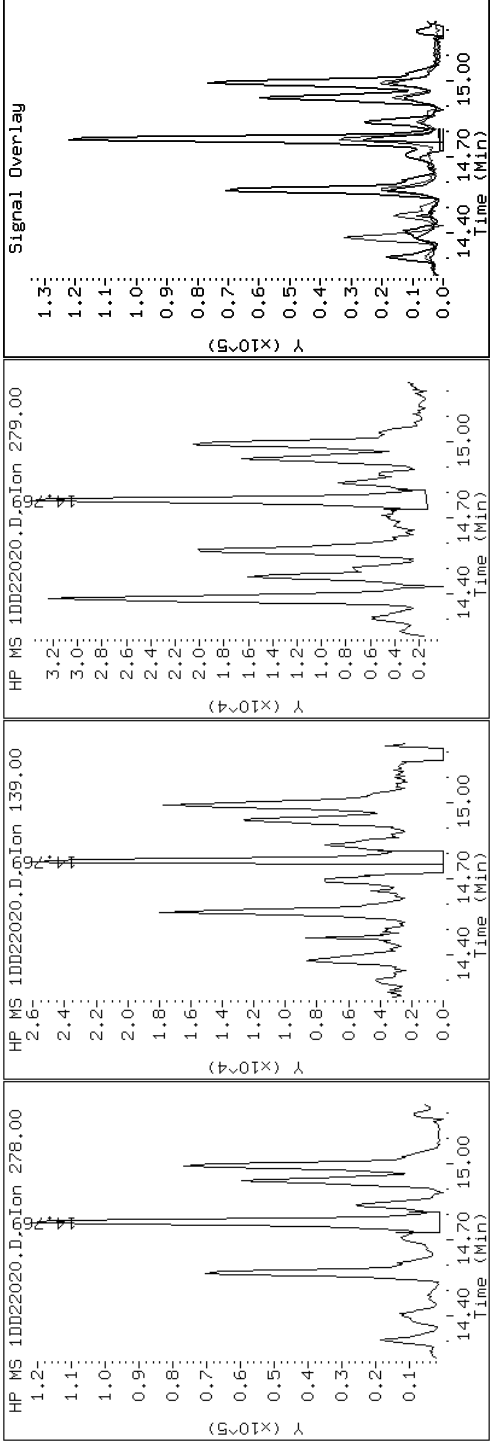
Client ID: CV1335A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-23-A

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD22020.D

Date: 22-APR-2013 17:09

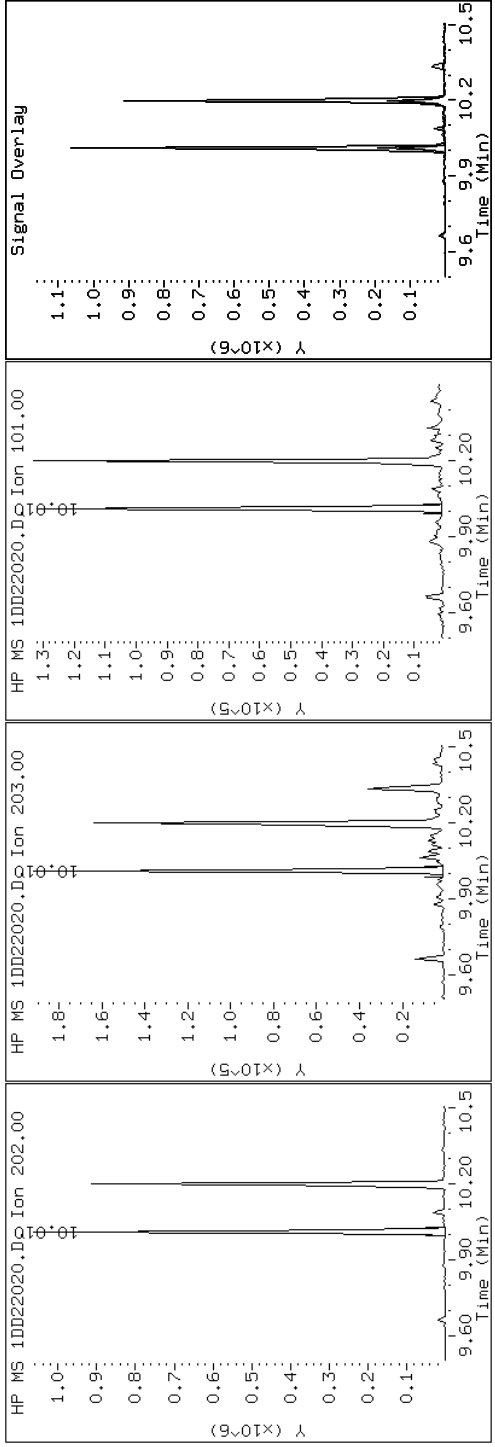
Client ID: CV1335A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-23-A

Operator: SCC

14 Fluoranthene



Data File: 1DD22020.D

Date: 22-APR-2013 17:09

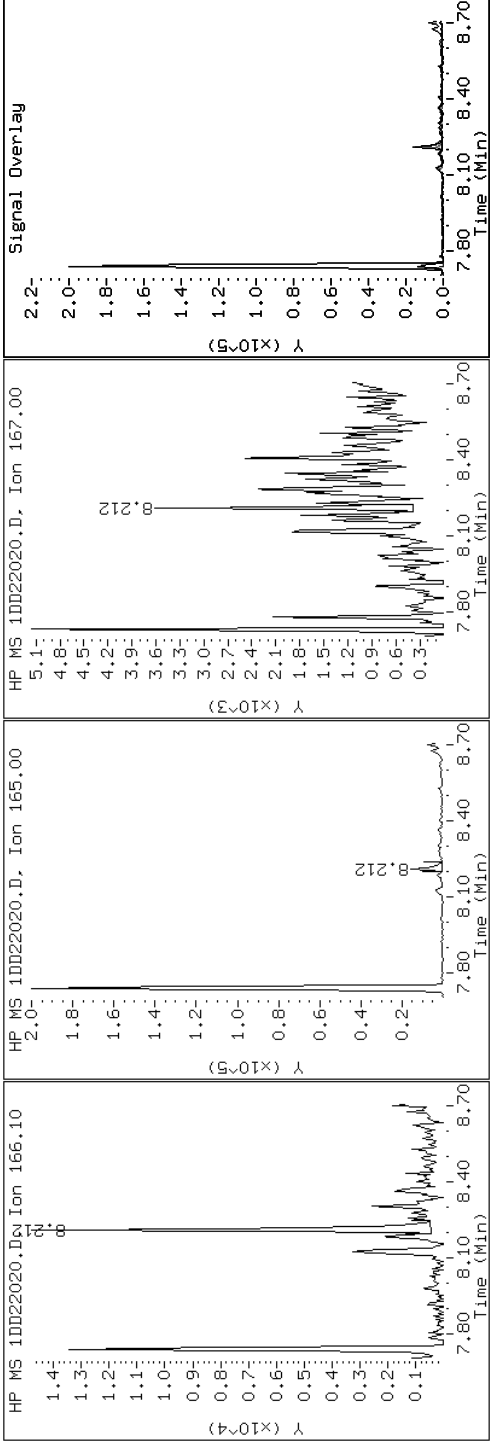
Client ID: CV1335A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-23-A

Operator: SCC

8 Fluorene



Data File: 1DD22020.D

Date: 22-APR-2013 17:09

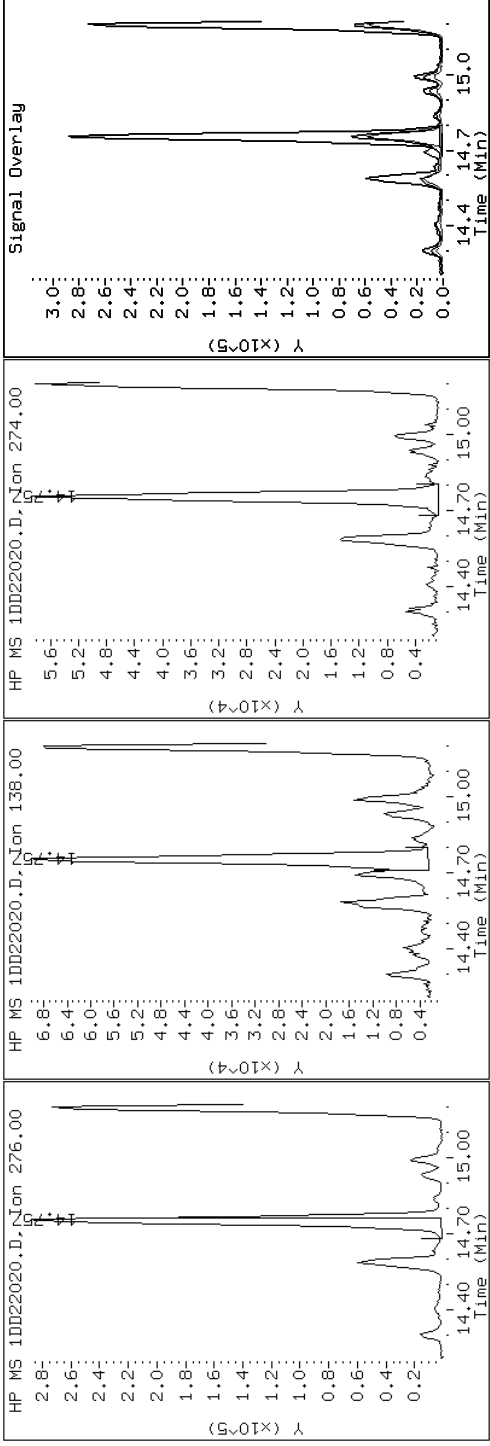
Client ID: CV1335A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-23-A

Operator: SCC

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



Data File: 1DD22020.D

Date: 22-APR-2013 17:09

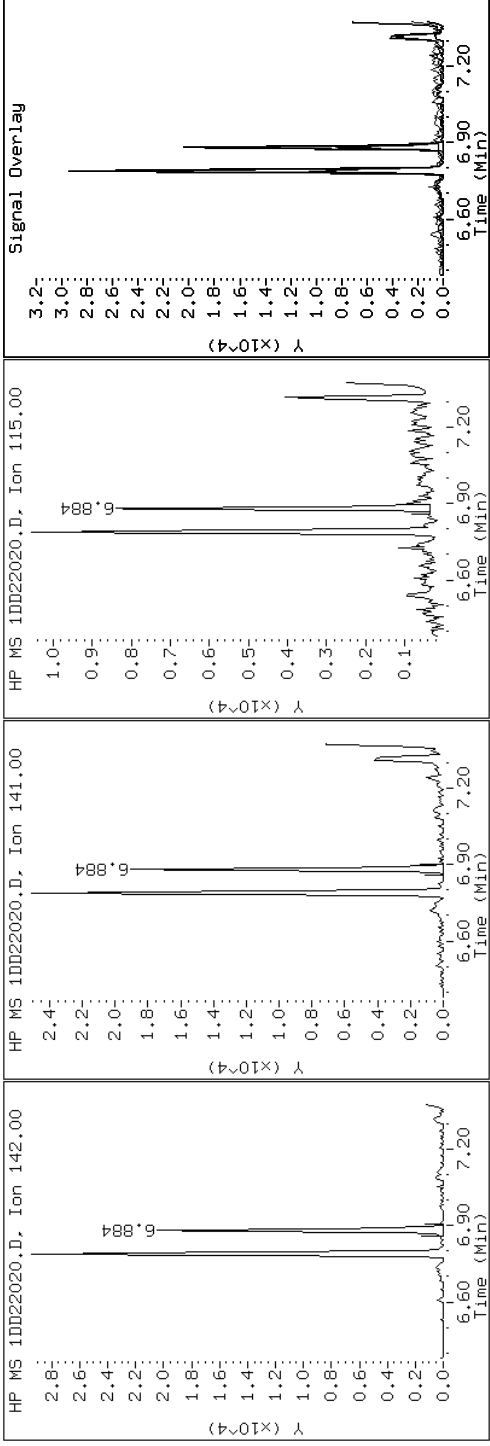
Client ID: CV1335A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-23-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD22020.D

Date: 22-APR-2013 17:09

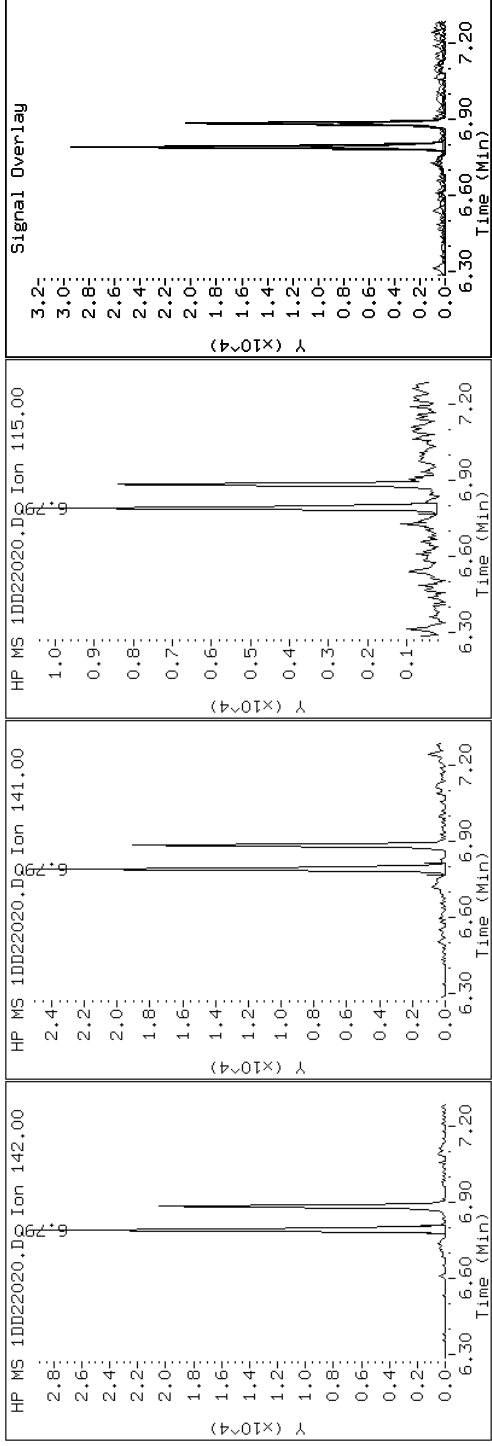
Client ID: CV1335A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-23-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD22020.D

Date: 22-APR-2013 17:09

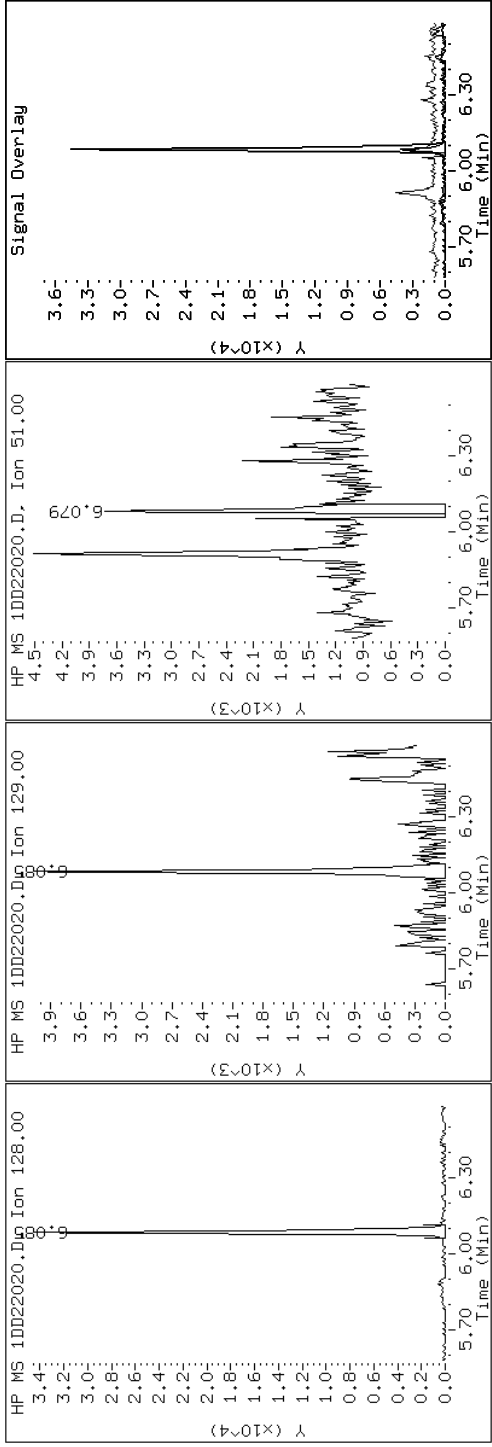
Client ID: CV1335A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-23-A

Operator: SCC

2 Naphthalene



Data File: 1DD22020.D

Date: 22-APR-2013 17:09

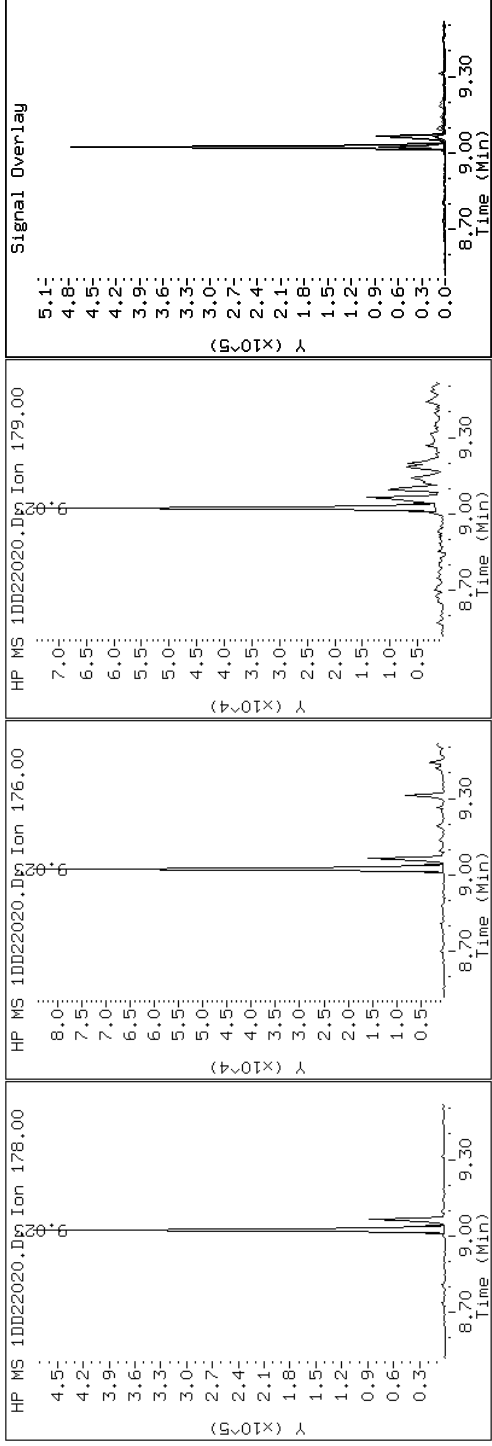
Client ID: CV1335A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-23-A

Operator: SCC

10 Phenanthrene



Data File: 1DD22020.D

Date: 22-APR-2013 17:09

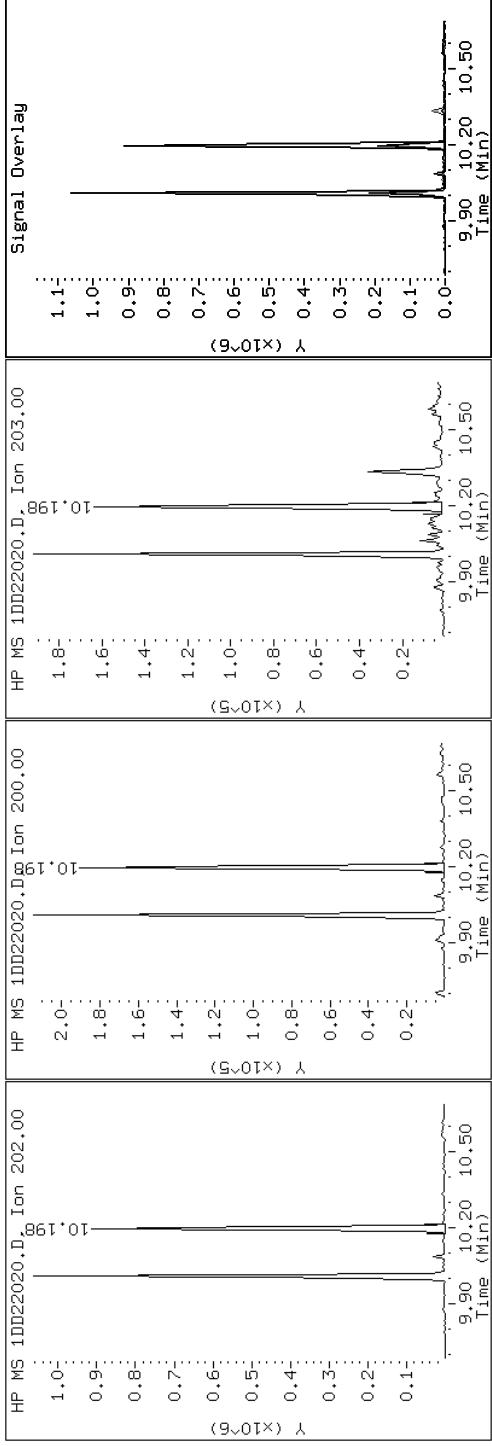
Client ID: CV1335A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-23-A

Operator: SCC

15 Pyrene

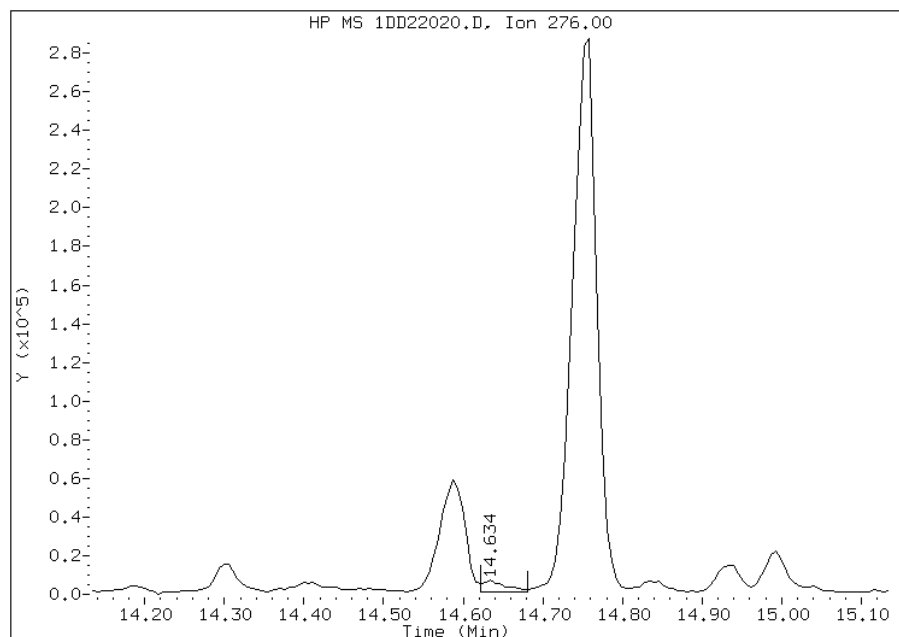


Manual Integration Report

Data File: 1DD22020.D
Inj. Date and Time: 22-APR-2013 17:09
Instrument ID: BSMSD.i
Client ID: CV1335A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

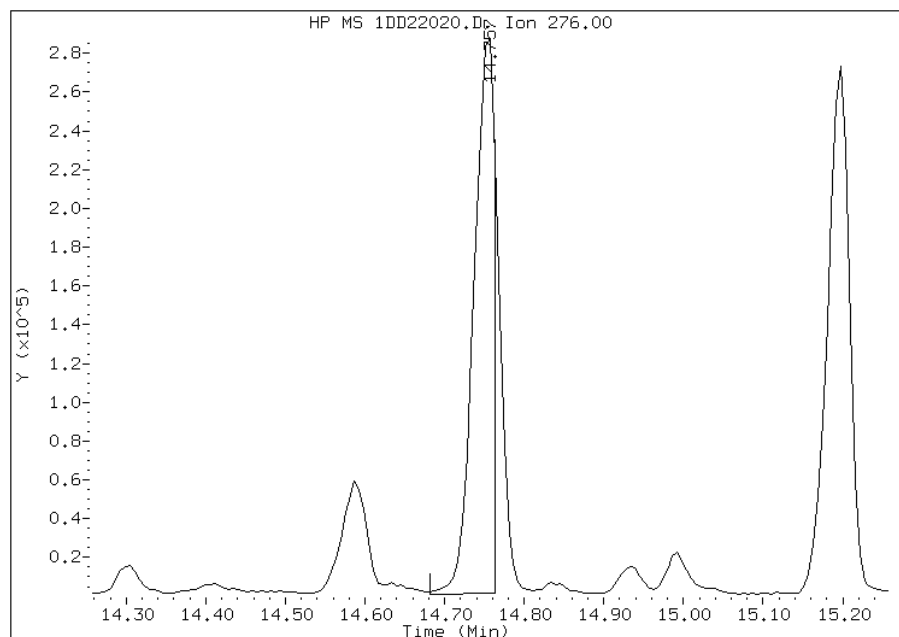
Processing Integration Results

RT: 14.63
Response: 11990
Amount: 0
Conc: 19



Manual Integration Results

RT: 14.76
Response: 522831
Amount: 9
Conc: 809



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 10:04
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 Client Sample ID: CV1335B-CS Lab Sample ID: 680-89328-24
 Matrix: Solid Lab File ID: 1DD22021.D
 Analysis Method: 8270C LL Date Collected: 04/11/2013 13:50
 Extract. Method: 3546 Date Extracted: 04/18/2013 15:43
 Sample wt/vol: 15.01(g) Date Analyzed: 04/22/2013 17:31
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 18.2 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136733 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	98
208-96-8	Acenaphthylene	61	J	200	24
120-12-7	Anthracene	100		41	21
56-55-3	Benzo[a]anthracene	1200		39	19
50-32-8	Benzo[a]pyrene	1900		51	25
205-99-2	Benzo[b]fluoranthene	4100		60	30
191-24-2	Benzo[g,h,i]perylene	1300		98	22
207-08-9	Benzo[k]fluoranthene	1200		39	18
218-01-9	Chrysene	1600		44	22
53-70-3	Dibenz(a,h)anthracene	530		98	20
206-44-0	Fluoranthene	1200		98	20
86-73-7	Fluorene	32	J	98	20
193-39-5	Indeno[1,2,3-cd]pyrene	1200		98	35
90-12-0	1-Methylnaphthalene	61	J	200	22
91-57-6	2-Methylnaphthalene	81	J	200	35
91-20-3	Naphthalene	86	J	200	22
85-01-8	Phenanthrene	460		39	19
129-00-0	Pyrene	930		98	18

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22021.D
 Lab Smp Id: 680-89328-A-24-A Client Smp ID: CV1335B-CS
 Inj Date : 22-APR-2013 17:31
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89328-A-24-A
 Misc Info : 680-89328-A-24-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
 Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 21
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.010	Weight Extracted
M	18.227	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.062	6.054	(1.000)	2012822	40.0000	
* 6 Acenaphthene-d10	164		7.742	7.734	(1.000)	1198612	40.0000	
* 9 Phenanthrene-d10	188		9.005	8.998	(1.000)	1997213	40.0000	
\$ 13 o-Terphenyl	230		9.311	9.309	(1.034)	49513	1.64535	540
* 17 Chrysene-d12	240		11.326	11.307	(1.000)	2383364	40.0000	
* 22 Perylene-d12	264		13.154	13.122	(1.000)	2106494	40.0000	
2 Naphthalene	128		6.085	6.077	(1.004)	13255	0.26494	86
3 2-Methylnaphthalene	142		6.790	6.783	(1.120)	8037	0.24886	81
4 1-Methylnaphthalene	142		6.884	6.877	(1.136)	5711	0.18726	61
5 Acenaphthylene	152		7.613	7.611	(0.983)	9491	0.18709	61
8 Fluorene	166		8.212	8.204	(1.061)	3638	0.09811	32
10 Phenanthrene	178		9.023	9.015	(1.002)	77596	1.41051	460
11 Anthracene	178		9.064	9.056	(1.007)	16823	0.30810	100
12 Carbazole	167		9.205	9.197	(1.022)	8871	0.18419	60

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.004	10.002	(1.111)	209101	3.69367	1200
15 Pyrene	202	10.192	10.184	(0.900)	203895	2.84880	930
16 Benzo(a)anthracene	228	11.309	11.289	(0.998)	250871	3.64068	1200
18 Chrysene	228	11.344	11.330	(1.002)	322641	4.99359	1600
19 Benzo(b)fluoranthene	252	12.613	12.582	(0.959)	662335	12.5870	4100
20 Benzo(k)fluoranthene	252	12.636	12.623	(0.961)	207699	3.74664	1200
21 Benzo(a)pyrene	252	13.054	13.034	(0.992)	309360	5.85116	1900
23 Indeno(1,2,3-cd)pyrene	276	14.740	14.709	(1.121)	209008	3.70734	1200(M)
24 Dibenzo(a,h)anthracene	278	14.758	14.732	(1.122)	85621	1.61278	520
25 Benzo(g,h,i)perylene	276	15.181	15.143	(1.154)	215607	3.97191	1300

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD22021.D

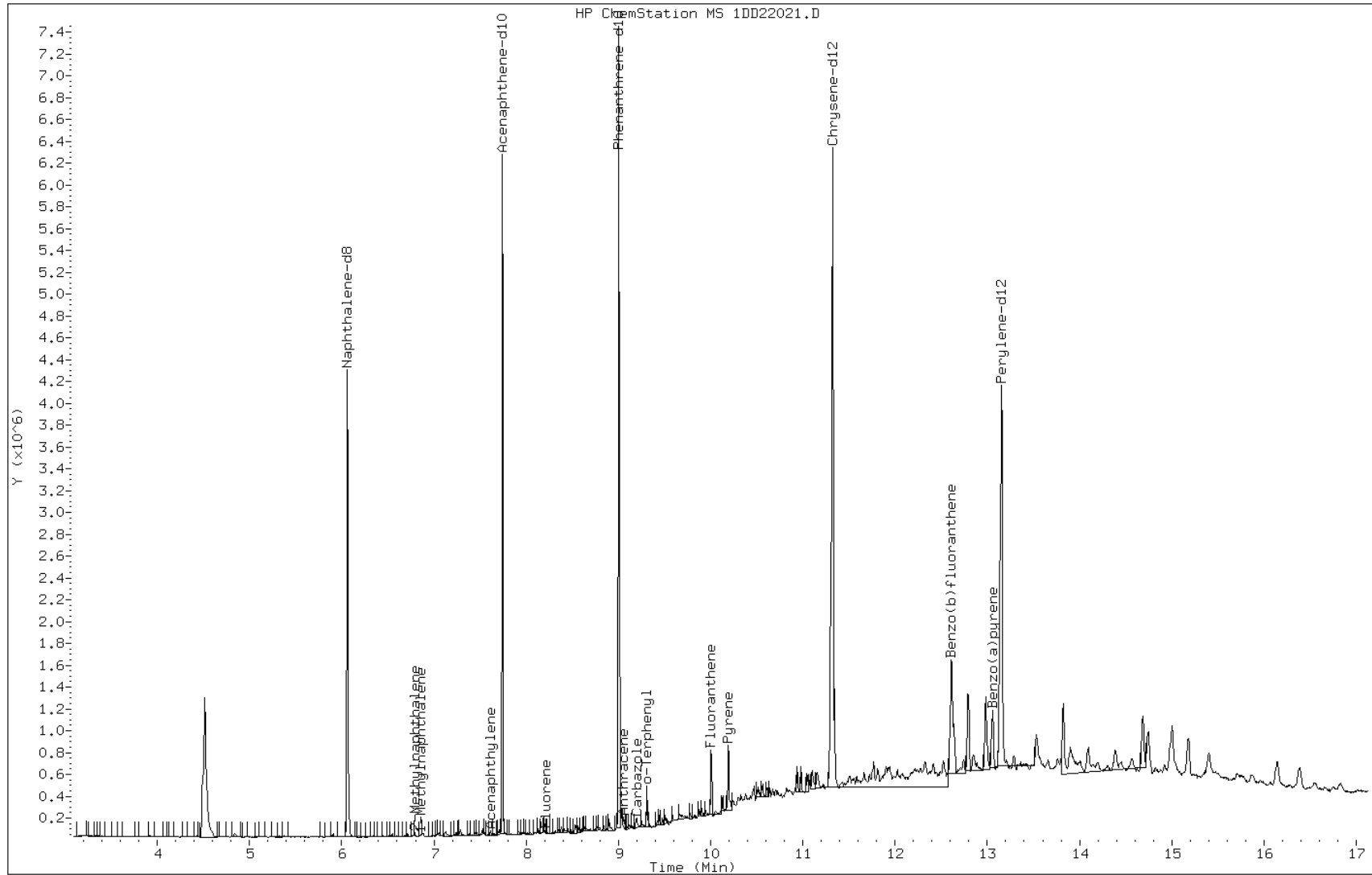
Date: 22-APR-2013 17:31

Client ID: CV1335B-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-24-A

Operator: SCC



Data File: 1DD22021.D

Date: 22-APR-2013 17:31

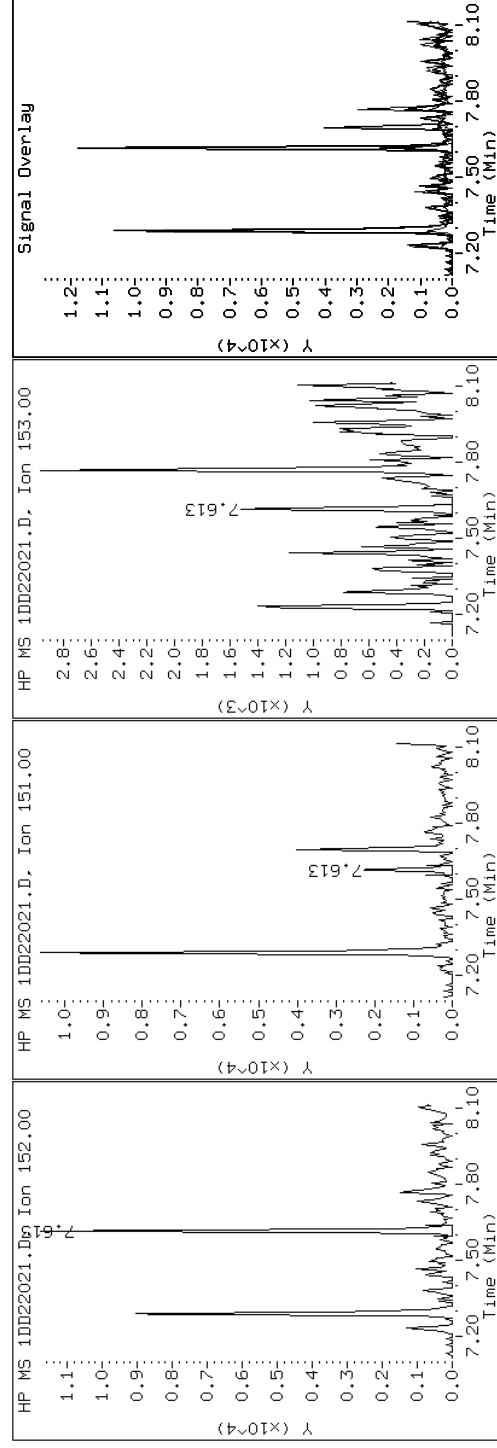
Client ID: CV1335B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-24-A

Operator: SCC

5 Acenaphthylene



Data File: 1DD22021.D

Date: 22-APR-2013 17:31

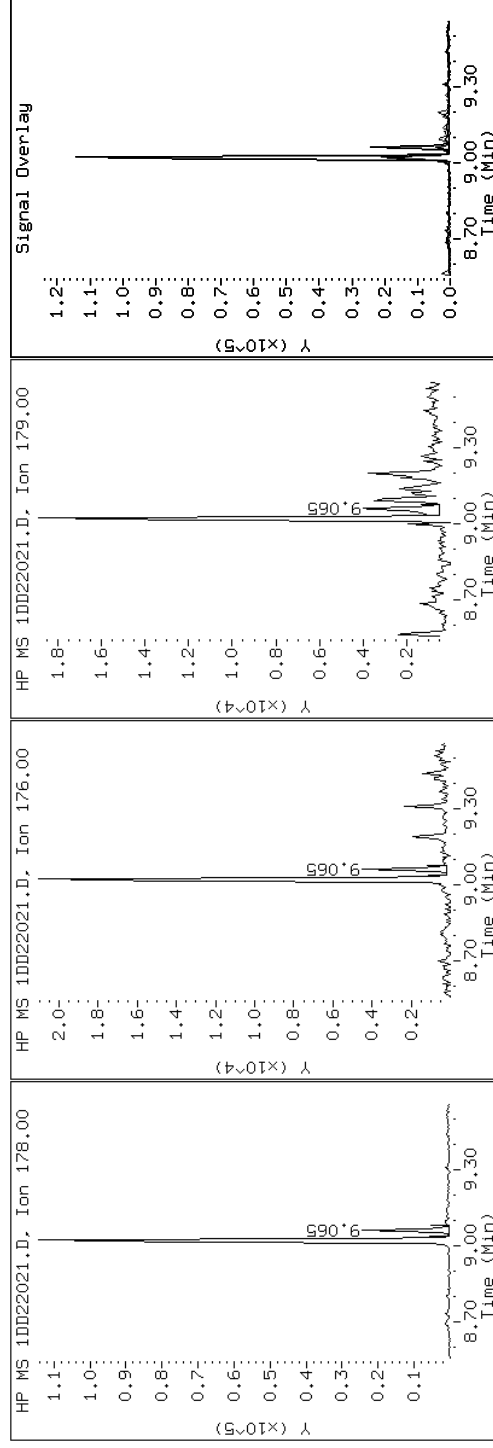
Client ID: CV1335B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-24-A

Operator: SCC

11 Anthracene



Data File: 1DD22021.D

Date: 22-APR-2013 17:31

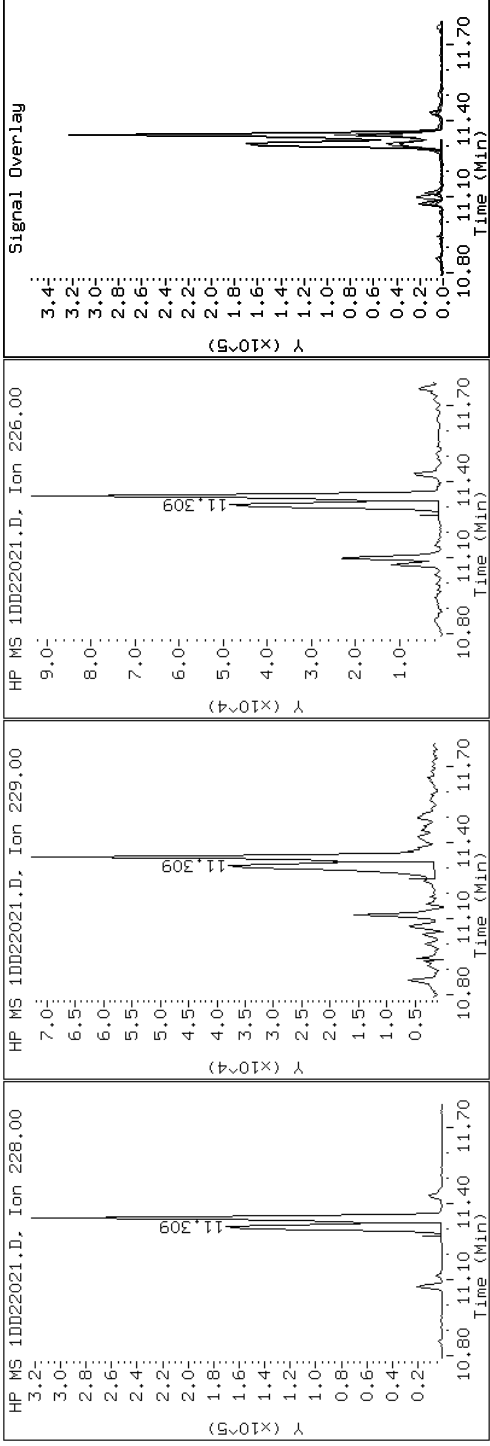
Client ID: CV1335B-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-24-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD22021.D

Date: 22-APR-2013 17:31

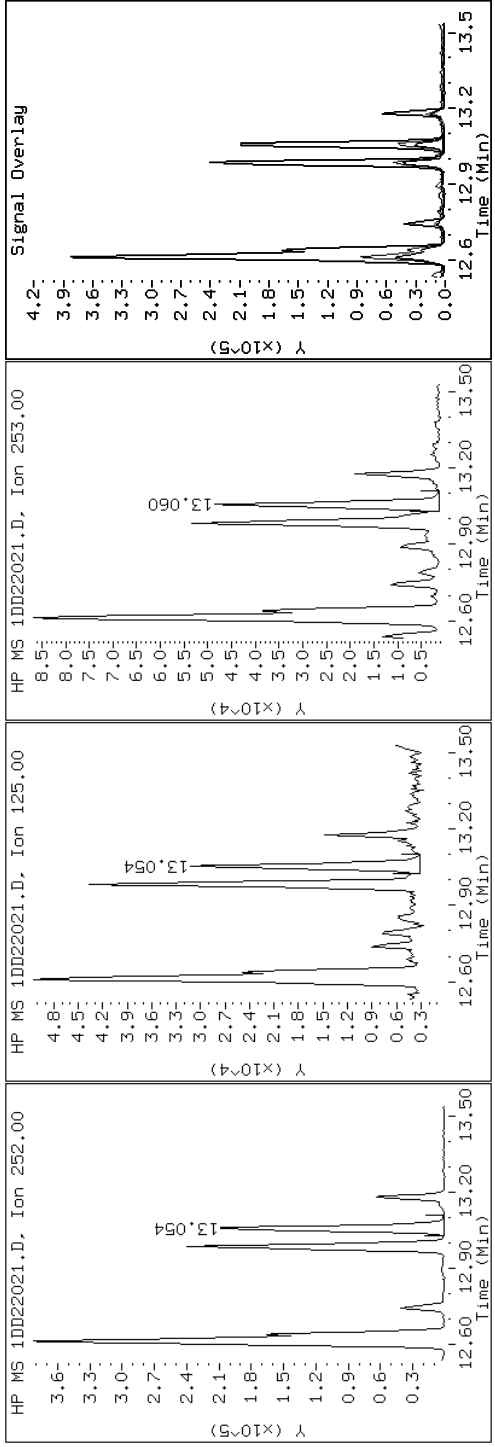
Client ID: CV1335B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-24-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD22021.D

Date: 22-APR-2013 17:31

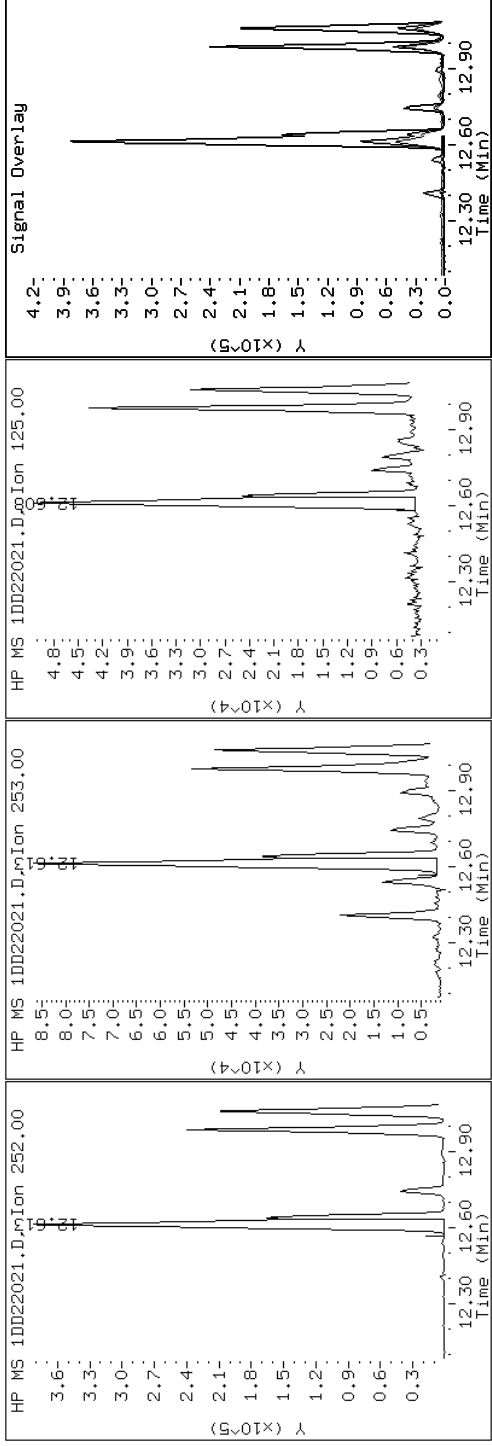
Client ID: CV1335B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-24-A

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD22021.D

Date: 22-APR-2013 17:31

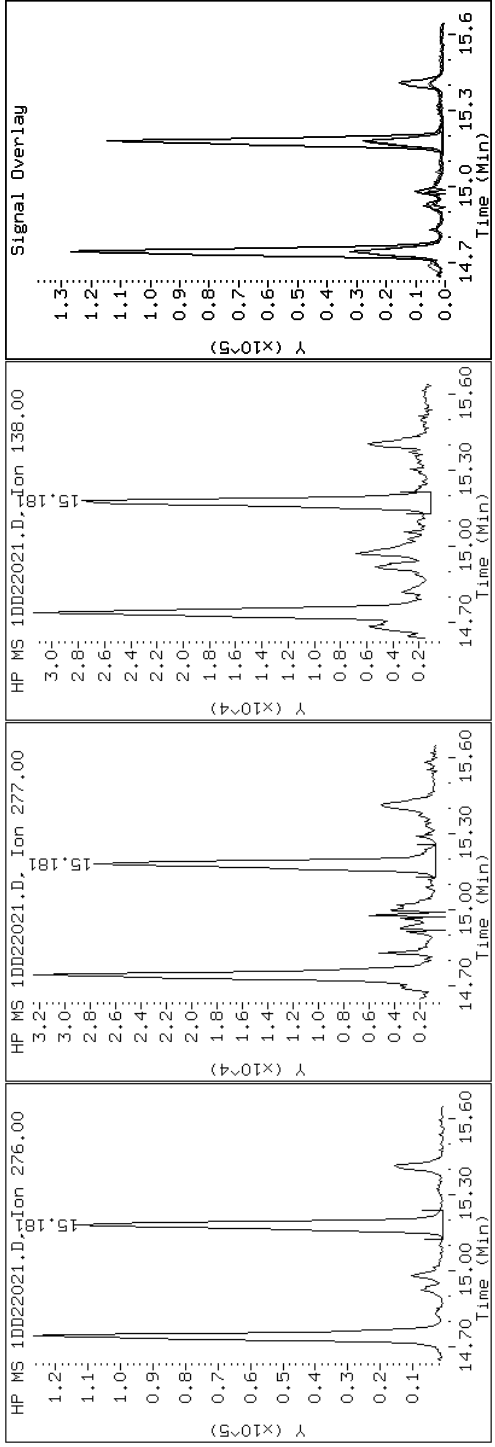
Client ID: CV1335B-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-24-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD22021.D

Date: 22-APR-2013 17:31

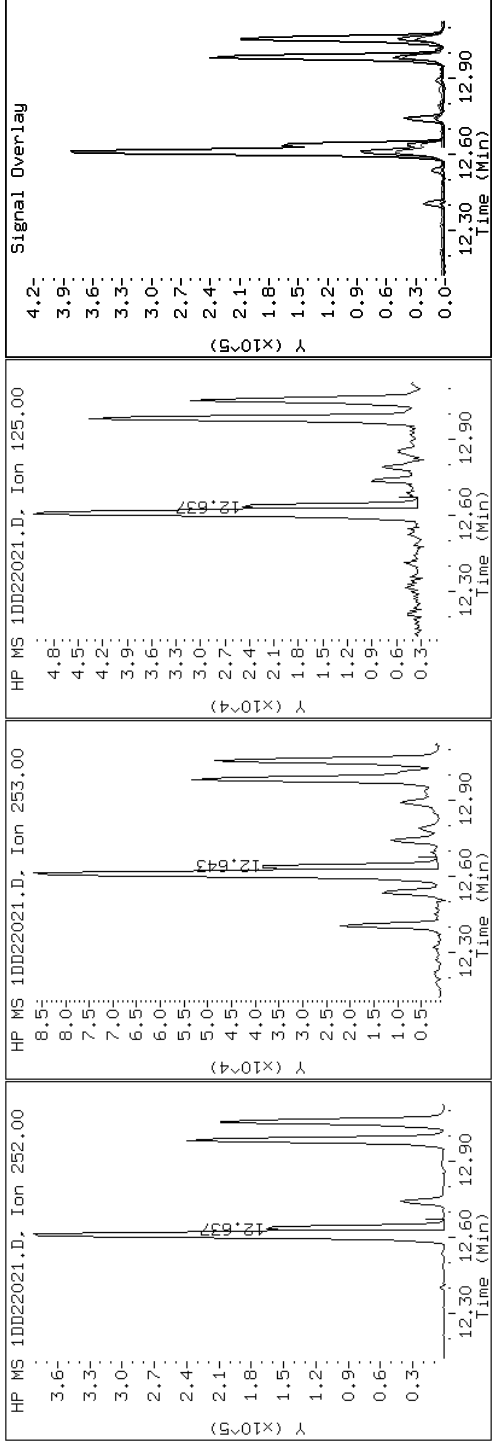
Client ID: CV1335B-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-24-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD22021.D

Date: 22-APR-2013 17:31

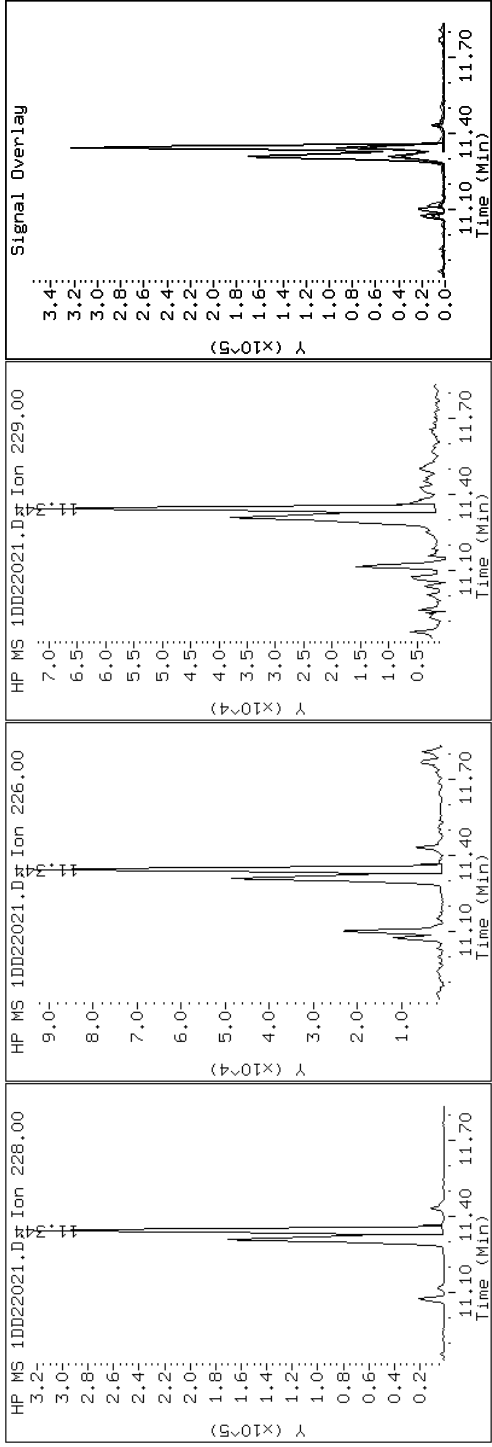
Client ID: CV1335B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-24-A

Operator: SCC

18 Chrysene



Data File: 1DD22021.D

Date: 22-APR-2013 17:31

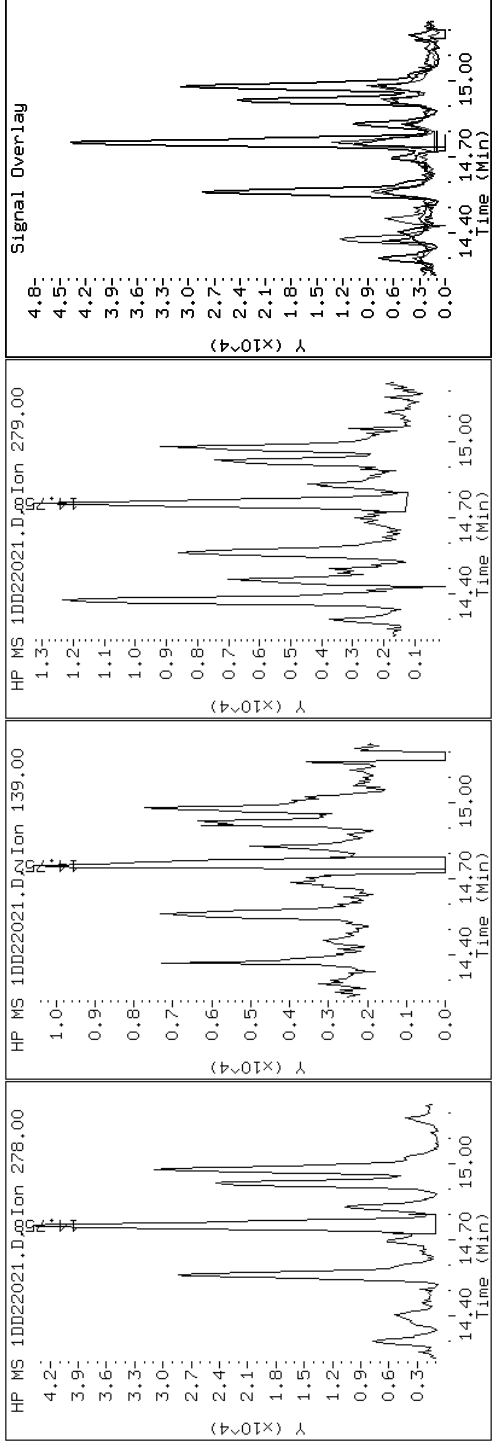
Client ID: CV1335B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-24-A

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD22021.D

Date: 22-APR-2013 17:31

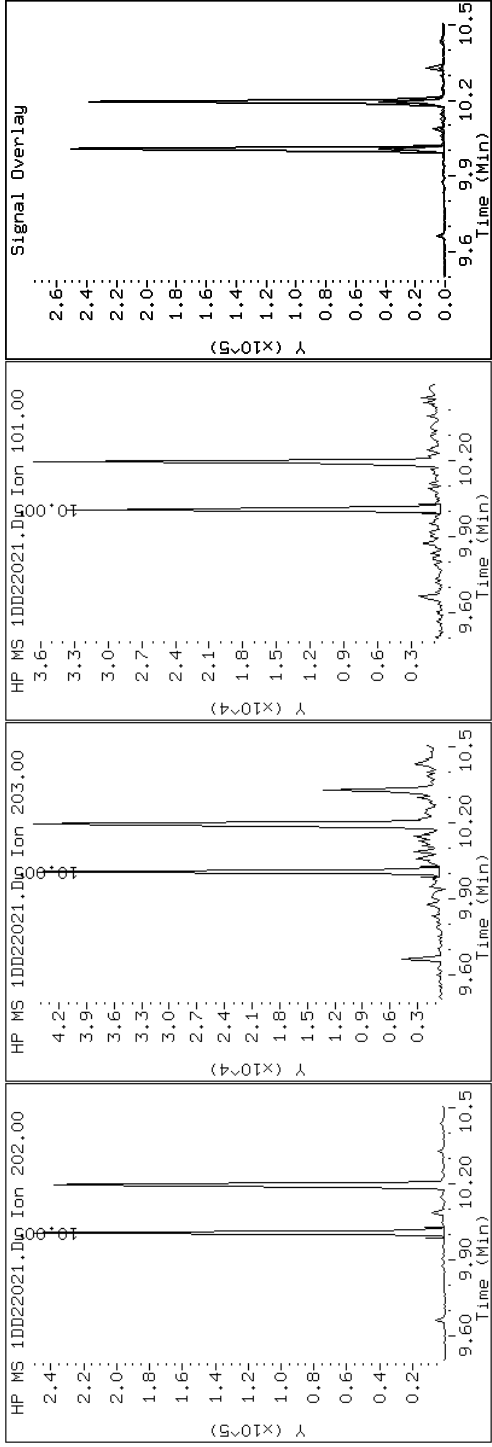
Client ID: CV1335B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-24-A

Operator: SCC

14 Fluoranthene



Data File: 1DD22021.D

Date: 22-APR-2013 17:31

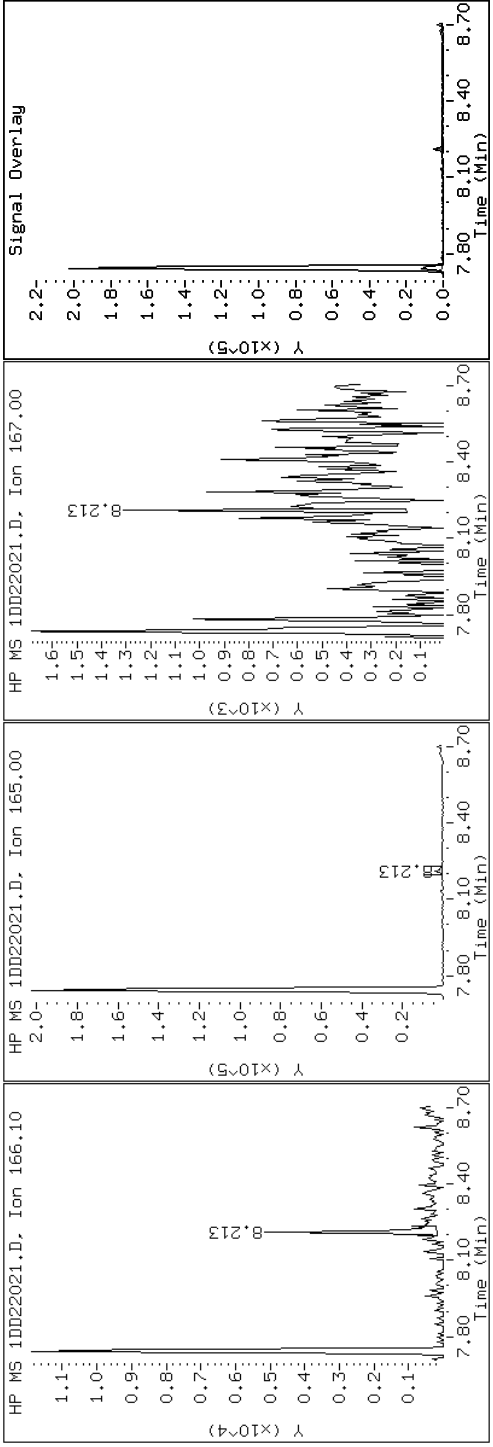
Client ID: CV1335B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-24-A

Operator: SCC

8 Fluorene



Data File: 1DD22021.D

Date: 22-APR-2013 17:31

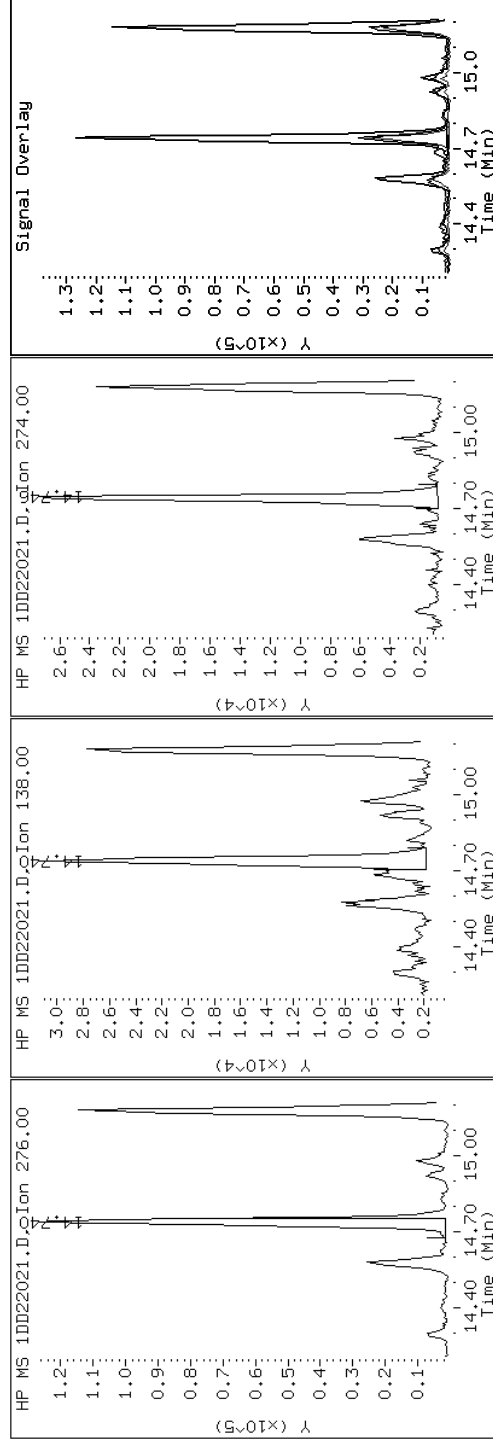
Client ID: CV1335B-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-24-A

Operator: SCC

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



Data File: 1DD22021.D

Date: 22-APR-2013 17:31

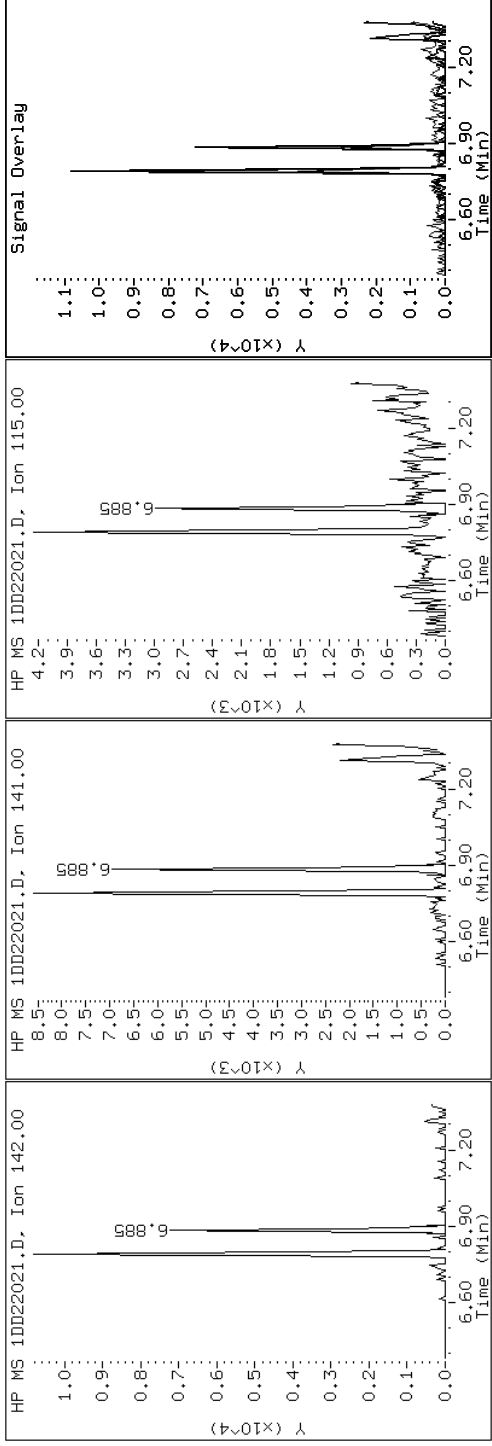
Client ID: CV1335B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-24-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD22021.D

Date: 22-APR-2013 17:31

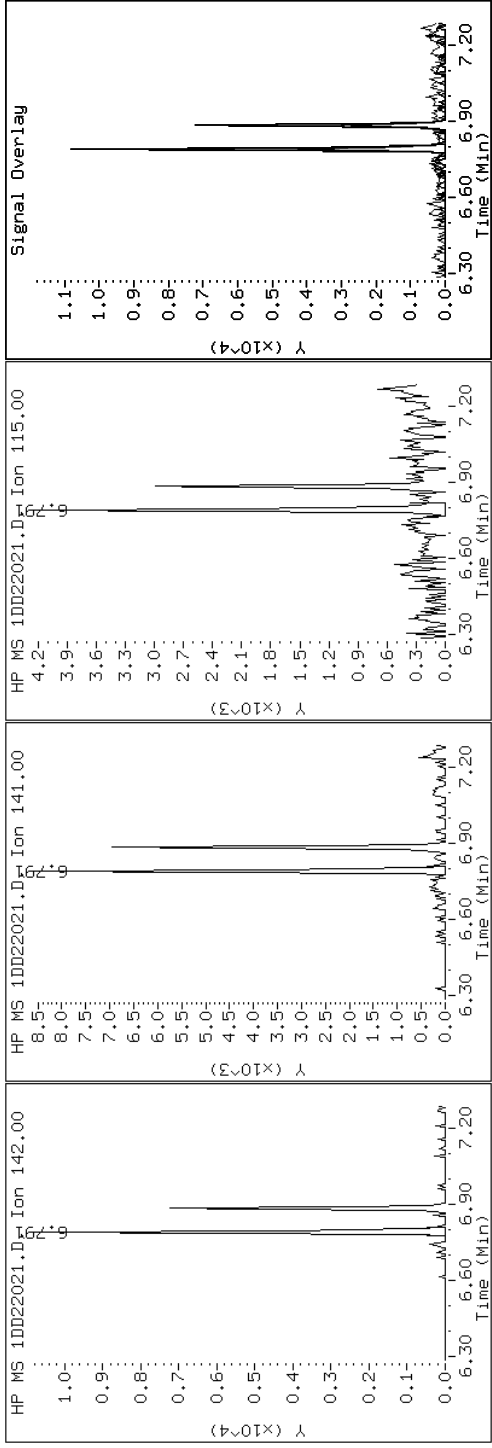
Client ID: CV1335B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-24-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD22021.D

Date: 22-APR-2013 17:31

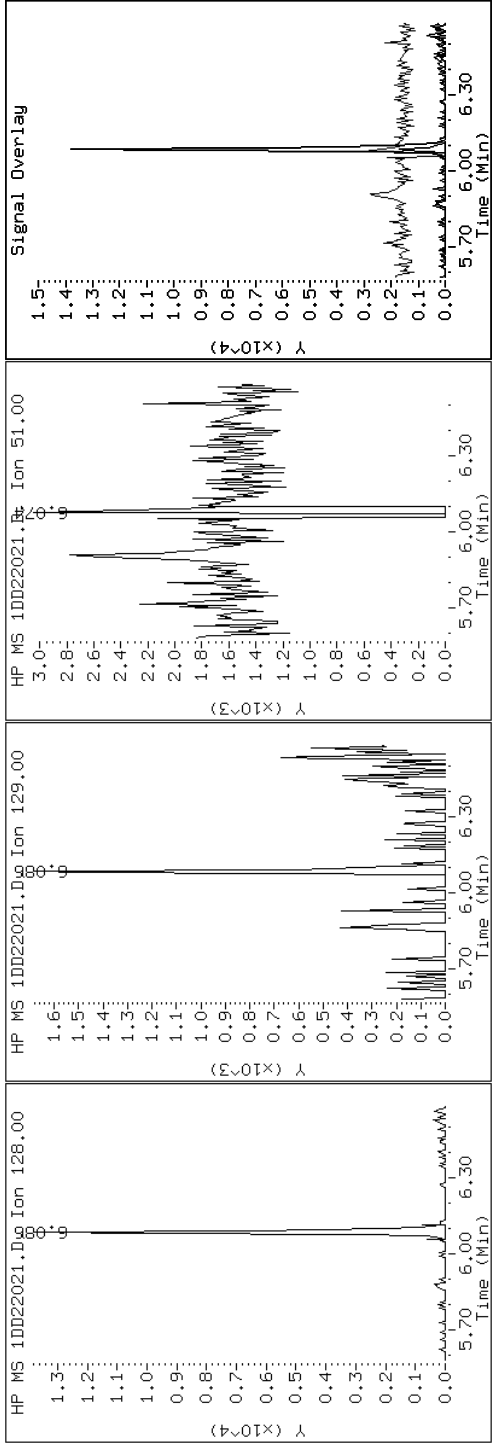
Client ID: CV1335B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-24-A

Operator: SCC

2 Naphthalene



Data File: 1DD22021.D

Date: 22-APR-2013 17:31

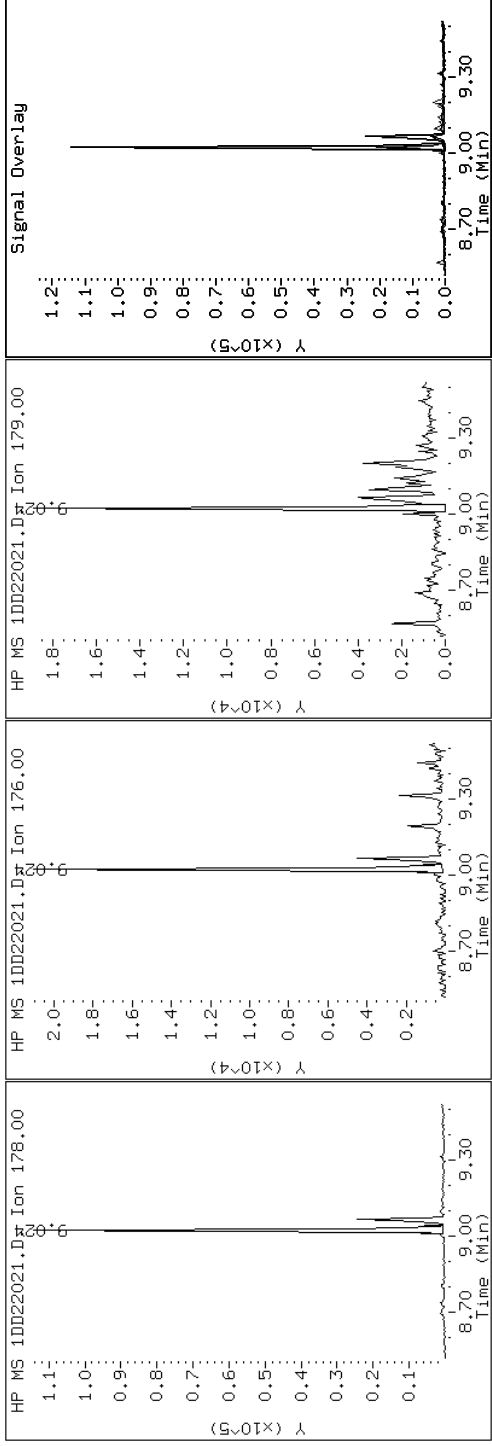
Client ID: CV1335B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-24-A

Operator: SCC

10 Phenanthrene



Data File: 1DD22021.D

Date: 22-APR-2013 17:31

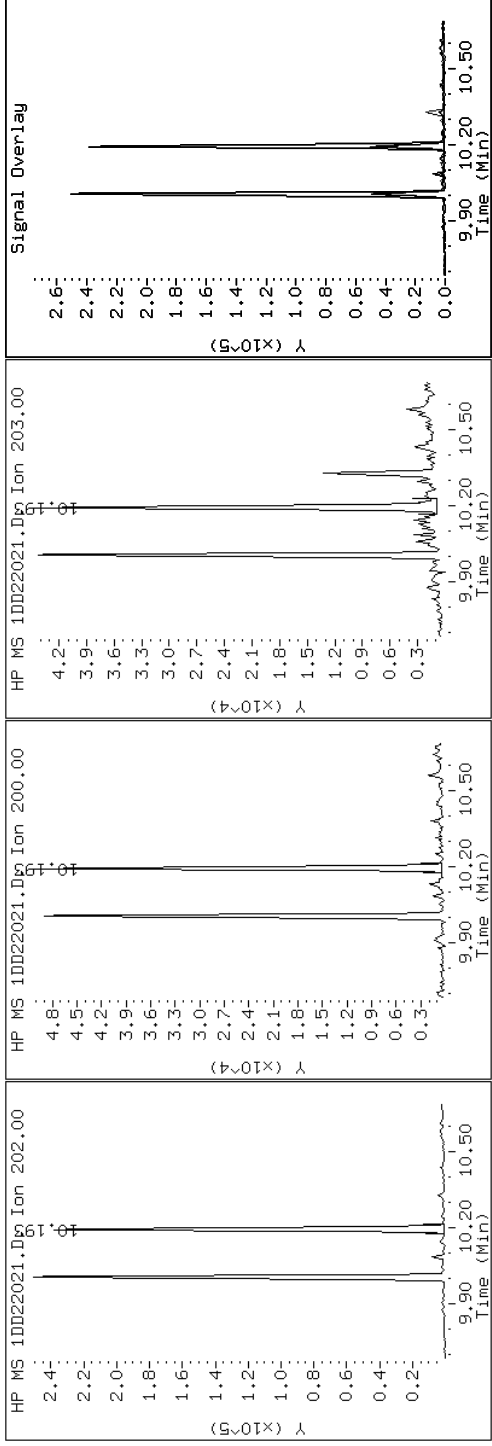
Client ID: CV1335B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-24-A

Operator: SCC

15 Pyrene

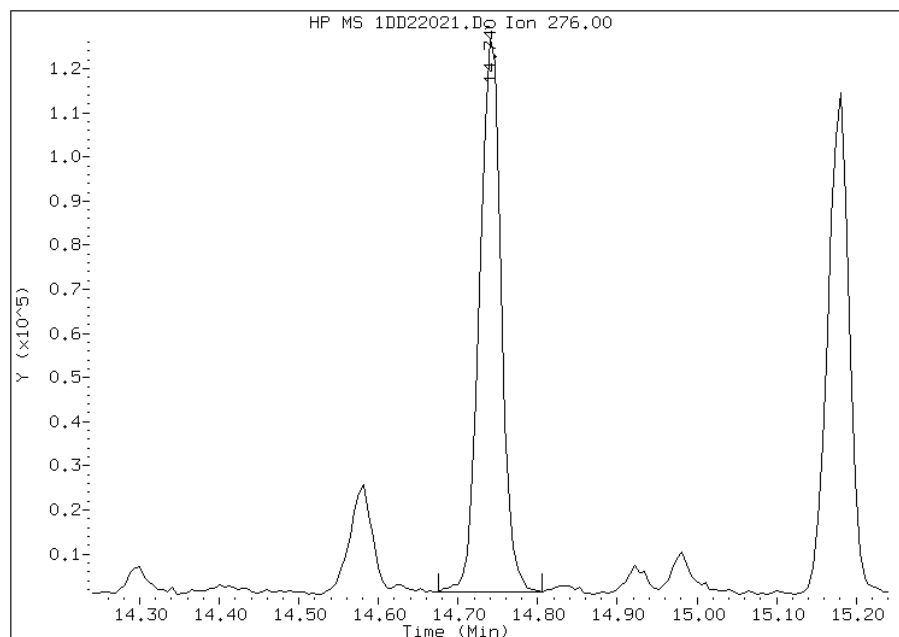


Manual Integration Report

Data File: 1DD22021.D
Inj. Date and Time: 22-APR-2013 17:31
Instrument ID: BSMSD.i
Client ID: CV1335B-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

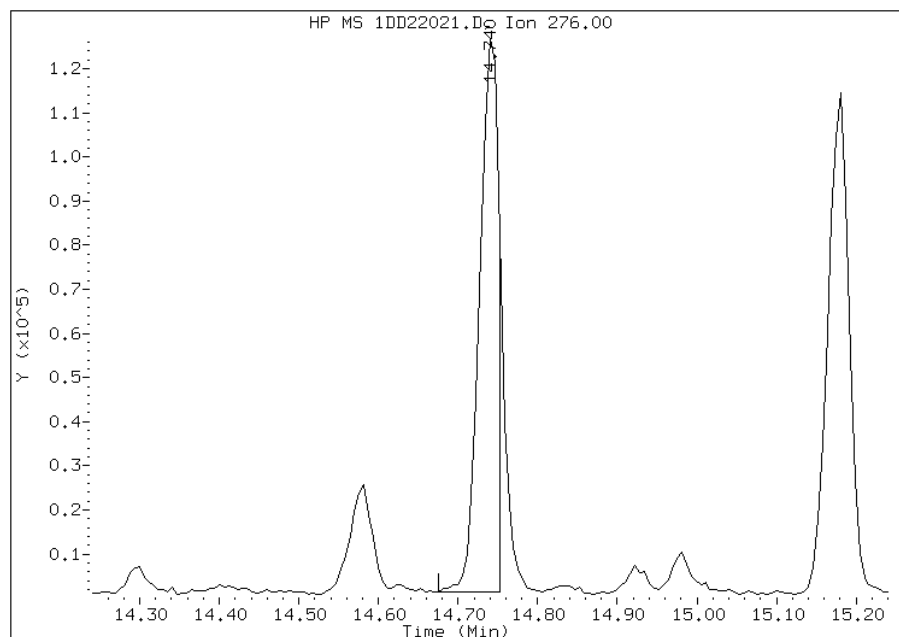
Processing Integration Results

RT: 14.74
Response: 236605
Amount: 4
Conc: 1368



Manual Integration Results

RT: 14.74
Response: 209008
Amount: 4
Conc: 1208



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 10:26
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 Client Sample ID: CV1350A-CS Lab Sample ID: 680-89328-25
 Matrix: Solid Lab File ID: 1DD23010.D
 Analysis Method: 8270C LL Date Collected: 04/11/2013 14:10
 Extract. Method: 3546 Date Extracted: 04/19/2013 15:35
 Sample wt/vol: 15.00(g) Date Analyzed: 04/23/2013 16:22
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 22.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136756 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	40	J	210	26
120-12-7	Anthracene	52		44	22
56-55-3	Benzo[a]anthracene	230		41	20
50-32-8	Benzo[a]pyrene	210	F	54	27
205-99-2	Benzo[b]fluoranthene	340		63	32
191-24-2	Benzo[g,h,i]perylene	200		100	23
207-08-9	Benzo[k]fluoranthene	100		41	19
218-01-9	Chrysene	340		47	23
53-70-3	Dibenz(a,h)anthracene	54	J	100	21
206-44-0	Fluoranthene	350		100	21
86-73-7	Fluorene	26	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	150		100	37
90-12-0	1-Methylnaphthalene	220		210	23
91-57-6	2-Methylnaphthalene	220		210	37
91-20-3	Naphthalene	130	J	210	23
85-01-8	Phenanthrene	340		41	20
129-00-0	Pyrene	300		100	19

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23010.D
 Lab Smp Id: 680-89328-A-25-A Client Smp ID: CV1350A-CS
 Inj Date : 23-APR-2013 16:22
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89328-A-25-A
 Misc Info : 680-89328-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: 9
 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	22.807	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.054	6.051	(1.000)	1704098	40.0000		
* 6 Acenaphthene-d10	164		7.734	7.732	(1.000)	976862	40.0000		
* 9 Phenanthrene-d10	188		8.992	8.995	(1.000)	1601149	40.0000		
\$ 13 o-Terphenyl	230		9.303	9.306	(1.035)	31834	1.31954	460	
* 17 Chrysene-d12	240		11.301	11.304	(1.000)	1524836	40.0000		
* 22 Perylene-d12	264		13.122	13.120	(1.000)	1699626	40.0000		
2 Naphthalene	128		6.072	6.075	(1.003)	16108	0.38030	130	
3 2-Methylnaphthalene	142		6.783	6.780	(1.120)	17027	0.62274	220	
4 1-Methylnaphthalene	142		6.871	6.874	(1.135)	16471	0.63790	220	
5 Acenaphthylene	152		7.605	7.608	(0.983)	4729	0.11438	40	
8 Fluorene	166		8.205	8.208	(1.061)	2259	0.07475	26	
10 Phenanthrene	178		9.009	9.013	(1.002)	43237	0.98036	340	
11 Anthracene	178		9.051	9.054	(1.007)	6640	0.15169	52	
12 Carbazole	167		9.192	9.195	(1.022)	4732	0.12256	42	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
14 Fluoranthene	202	9.997	10.000	(1.112)	45983	1.01319	350
15 Pyrene	202	10.185	10.188	(0.901)	40237	0.87872	300
16 Benzo(a)anthracene	228	11.283	11.287	(0.998)	29347	0.66568	230
18 Chrysene	228	11.324	11.328	(1.002)	40586	0.98183	340
19 Benzo(b)fluoranthene	252	12.576	12.585	(0.958)	41793	0.98436	340
20 Benzo(k)fluoranthene	252	12.605	12.620	(0.961)	13114	0.29319	100
21 Benzo(a)pyrene	252	13.022	13.032	(0.992)	25855	0.60608	210
23 Indeno(1,2,3-cd)pyrene	276	14.691	14.706	(1.120)	19891	0.43728	150(M)
24 Dibenzo(a,h)anthracene	278	14.715	14.735	(1.121)	6702	0.15646	54
25 Benzo(g,h,i)perylene	276	15.126	15.141	(1.153)	25106	0.57322	200

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD23010.D

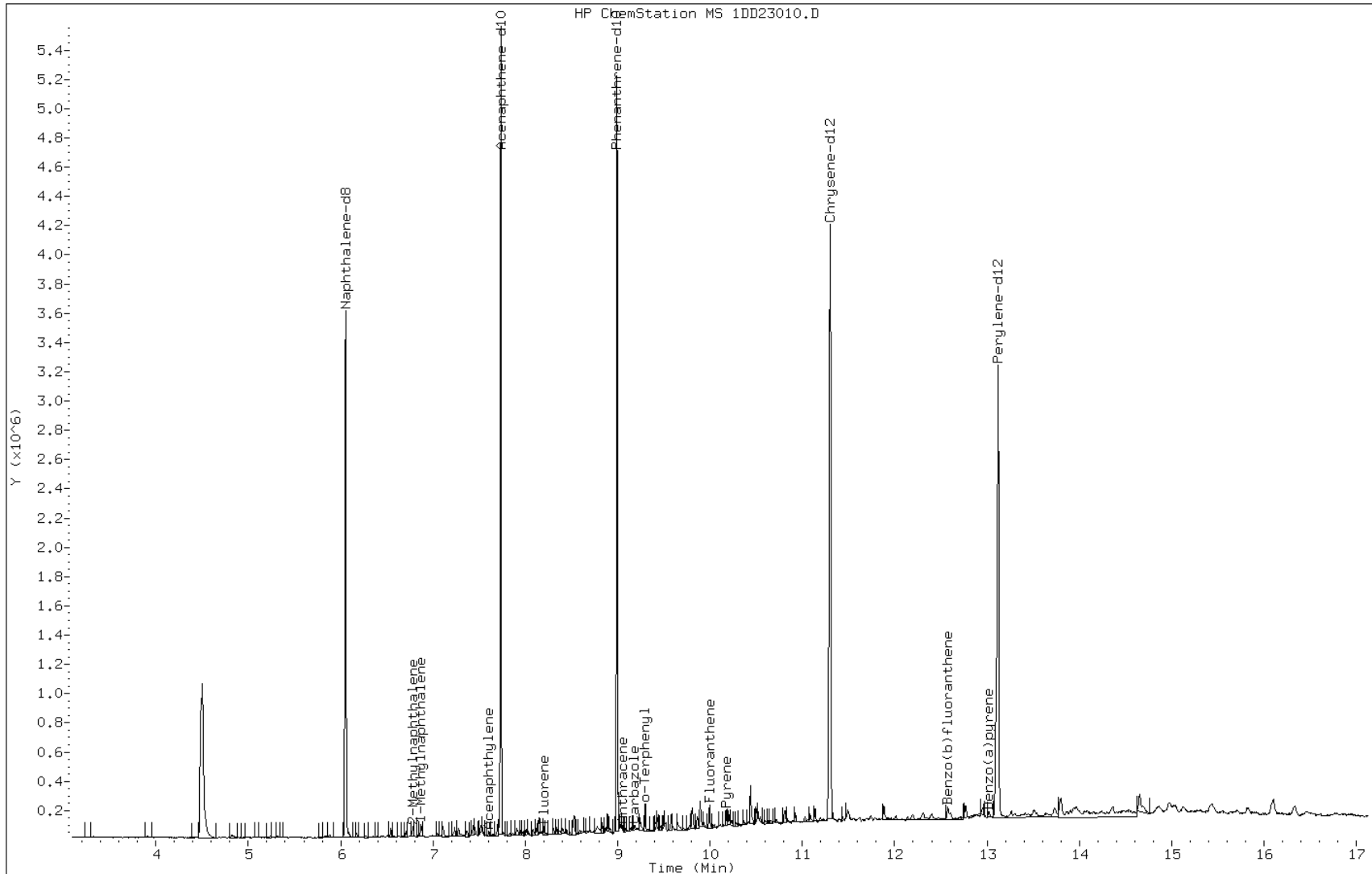
Date: 23-APR-2013 16:22

Client ID: CV1350A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-25-A

Operator: SCC



Data File: 1DD23010.D

Date: 23-APR-2013 16:22

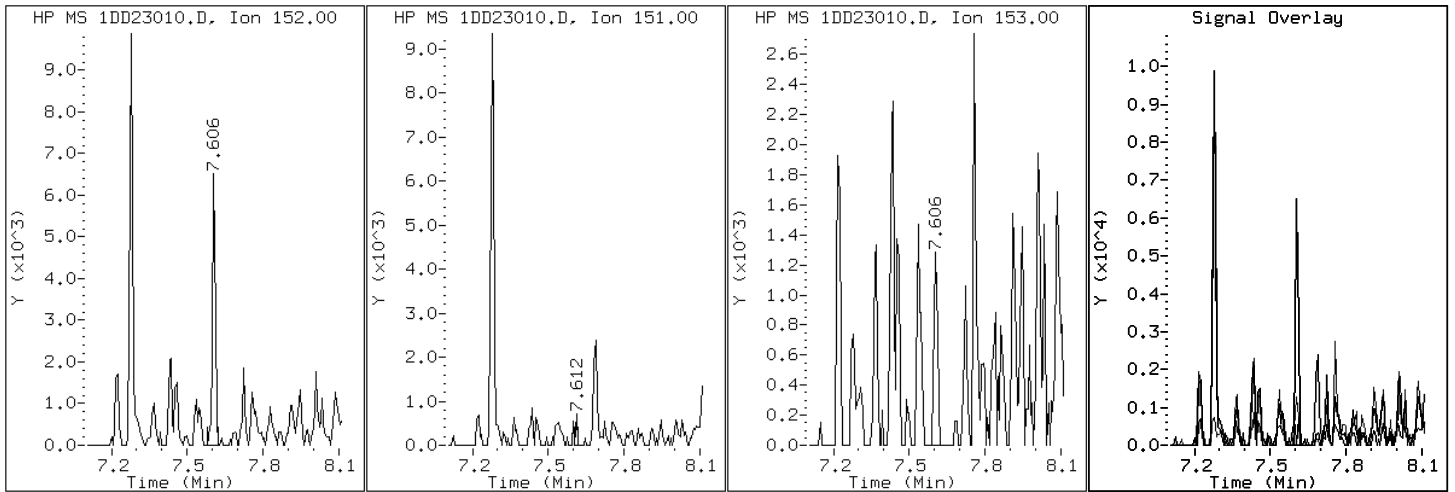
Client ID: CV1350A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-25-A

Operator: SCC

5 Acenaphthylene



Data File: 1DD23010.D

Date: 23-APR-2013 16:22

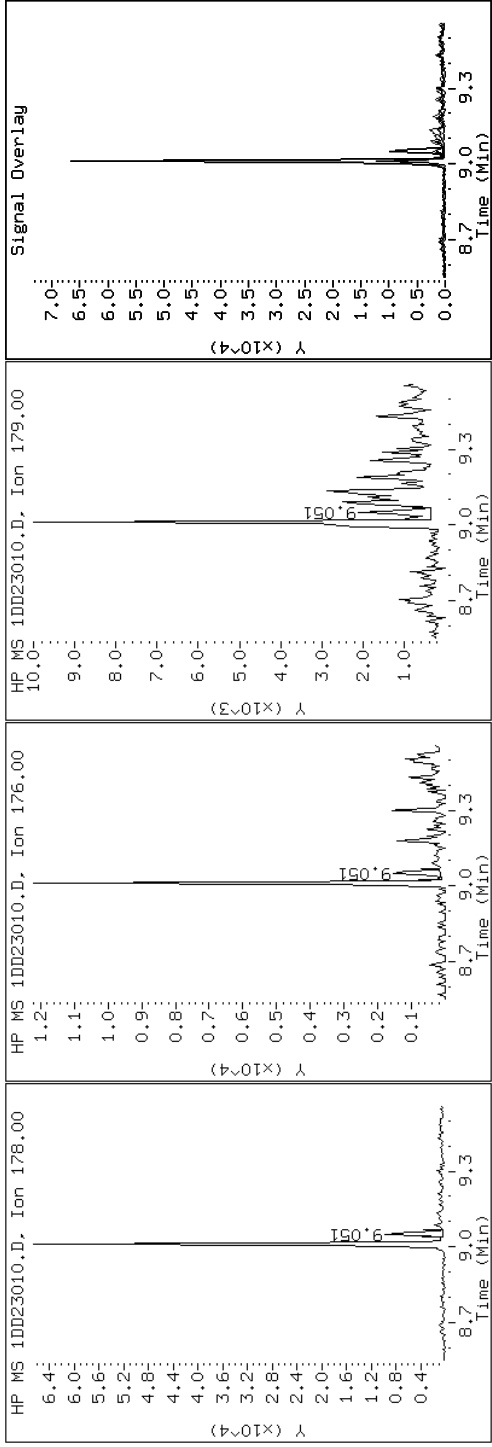
Client ID: CVI350A-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-25-A

Operator: SCC

11 Anthracene



Data File: 1DD23010.D

Date: 23-APR-2013 16:22

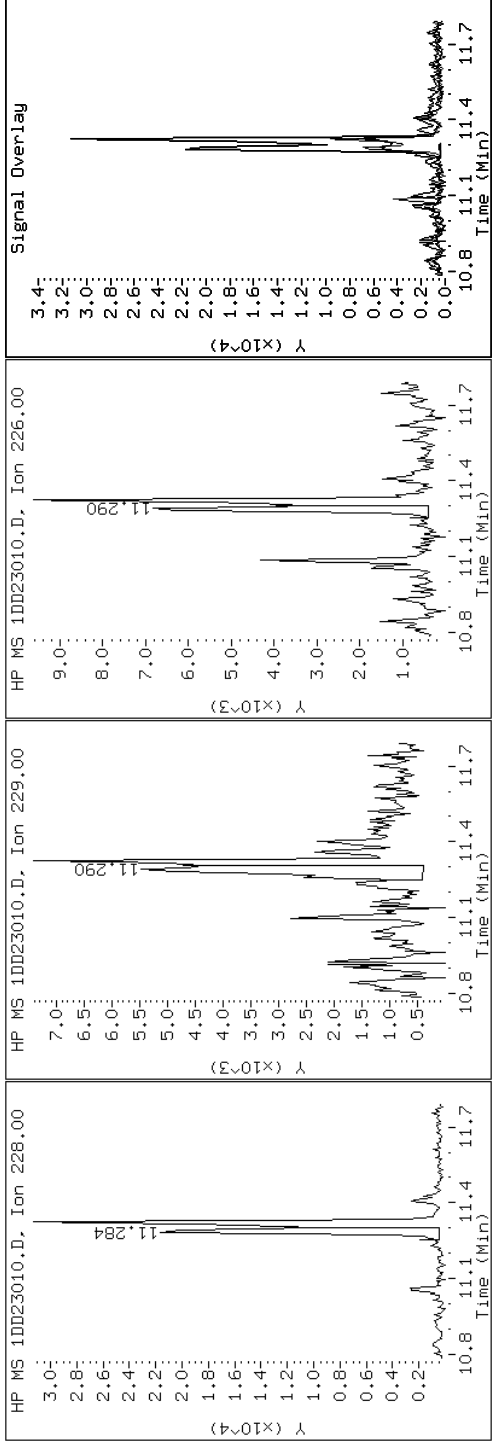
Client ID: CVI350A-CS

Instrument: BSMMSD.i

Sample Info: 680-89328-A-25-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD23010.D

Date: 23-APR-2013 16:22

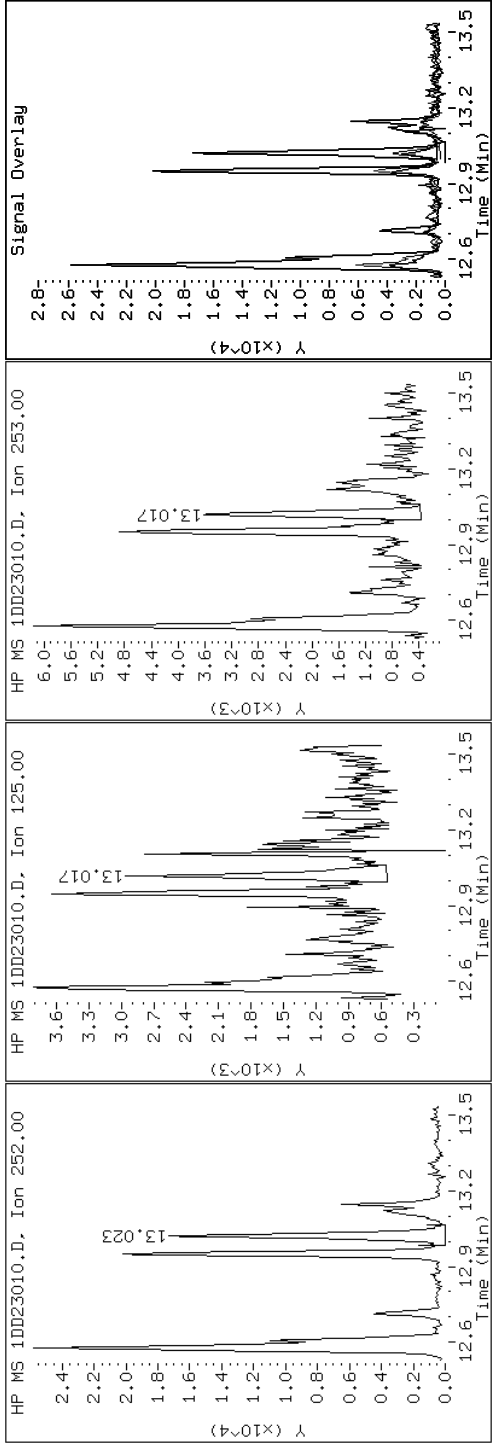
Client ID: CVI350A-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-25-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD23010.D

Date: 23-APR-2013 16:22

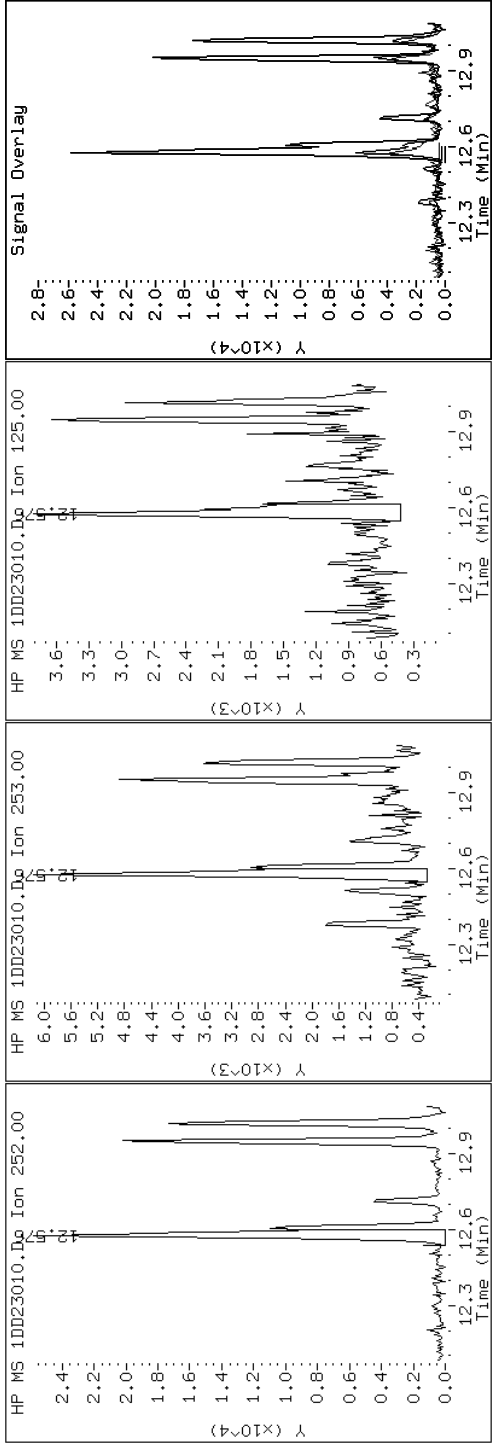
Client ID: CVI350A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-25-A

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD23010.D

Date: 23-APR-2013 16:22

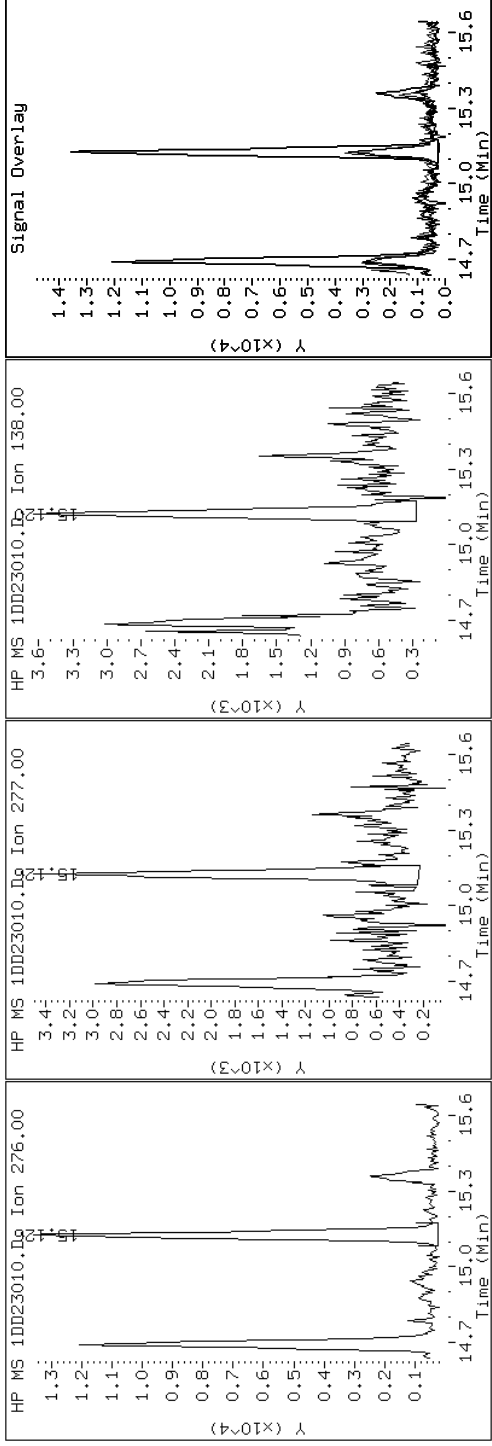
Client ID: CV1350A-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-25-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD23010.D

Date: 23-APR-2013 16:22

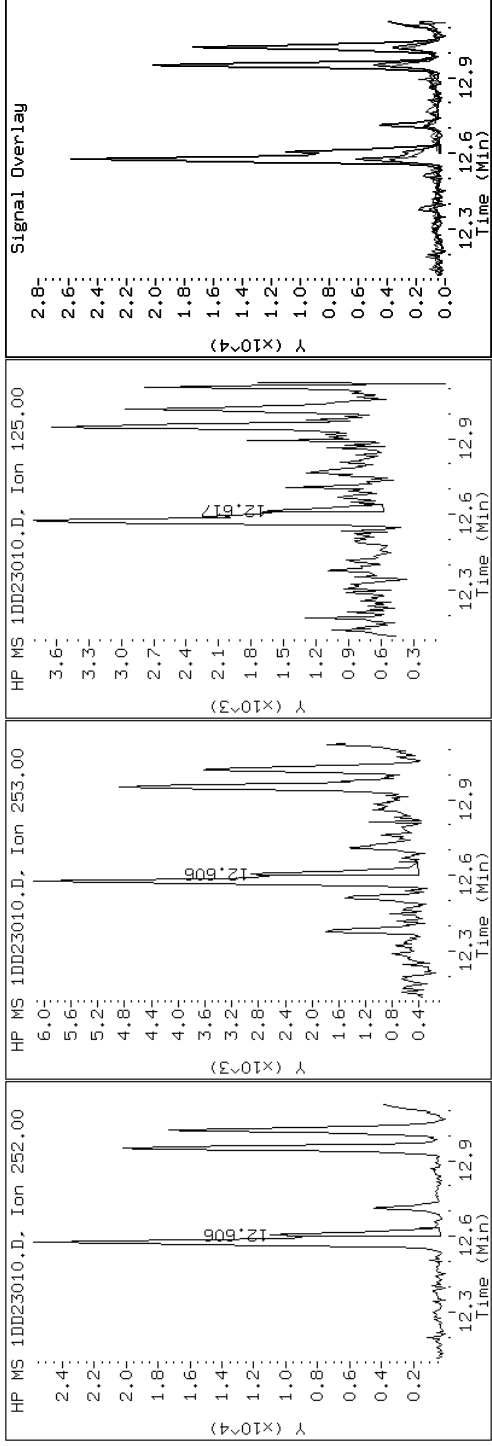
Client ID: CVI350A-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-25-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD23010.D

Date: 23-APR-2013 16:22

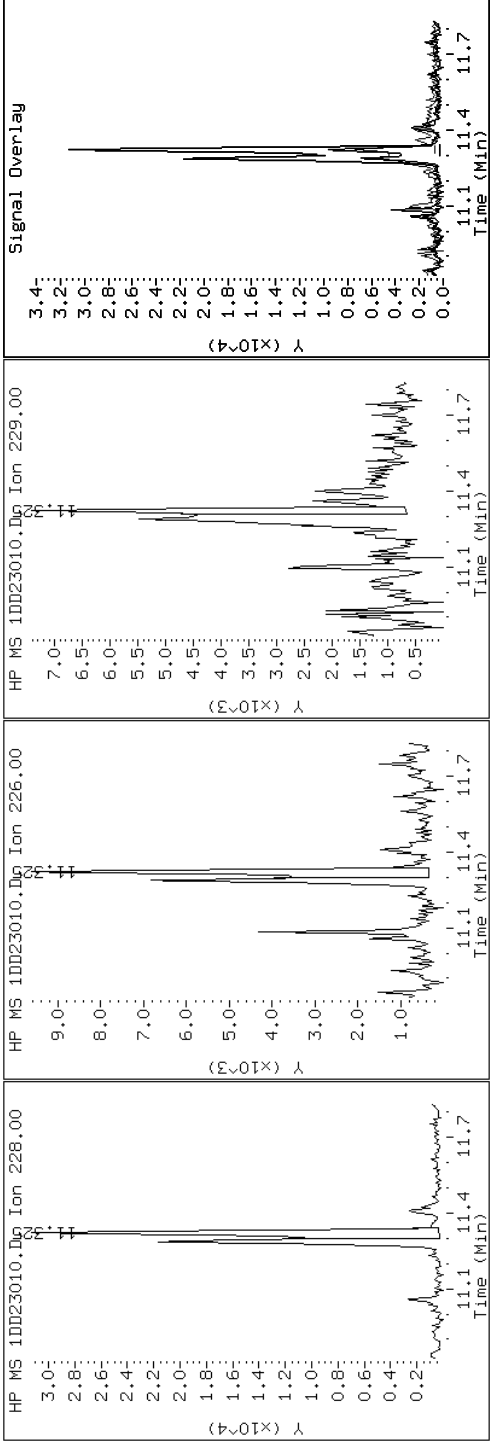
Client ID: CVI350A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-25-A

Operator: SCC

18 Chrysene



Data File: 1DD23010.D

Date: 23-APR-2013 16:22

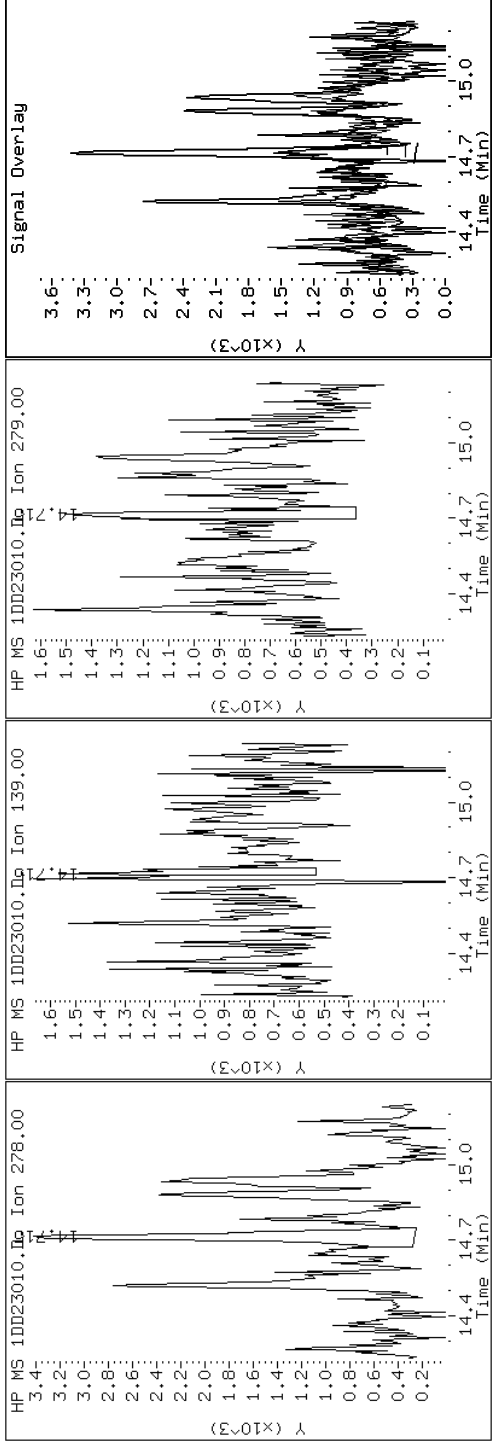
Client ID: CV1350A-CS

Instrument: BSMMSD.i

Sample Info: 680-89328-A-25-A

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD23010.D

Date: 23-APR-2013 16:22

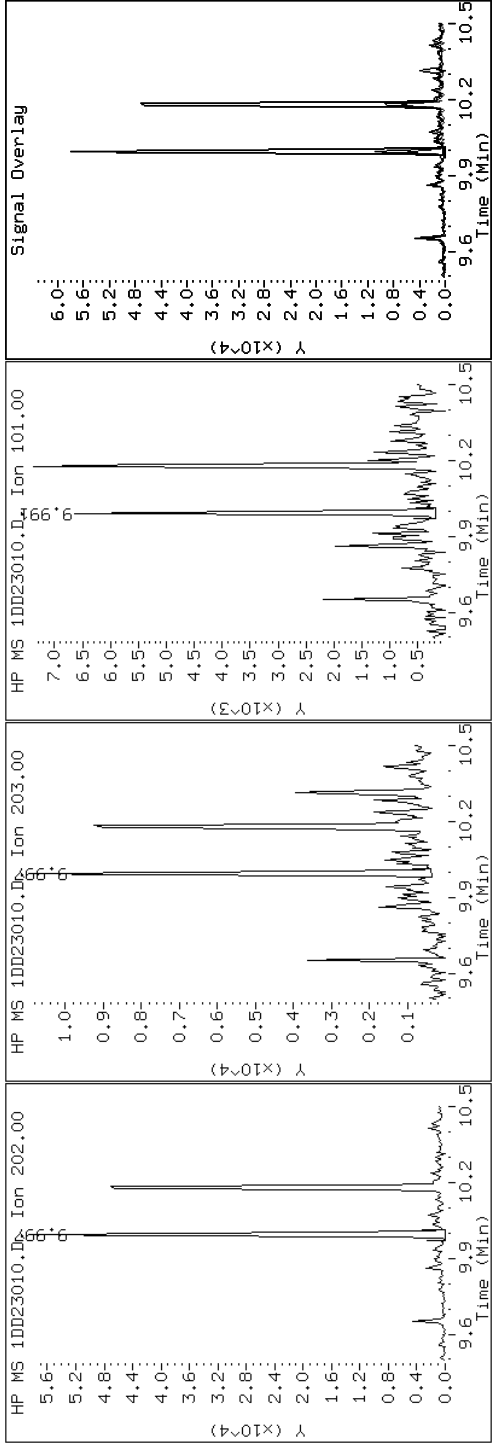
Client ID: CVI350A-CS

Instrument: BSMMSD.i

Sample Info: 680-89328-A-25-A

Operator: SCC

14 Fluoranthene



Data File: 1DD23010.D

Date: 23-APR-2013 16:22

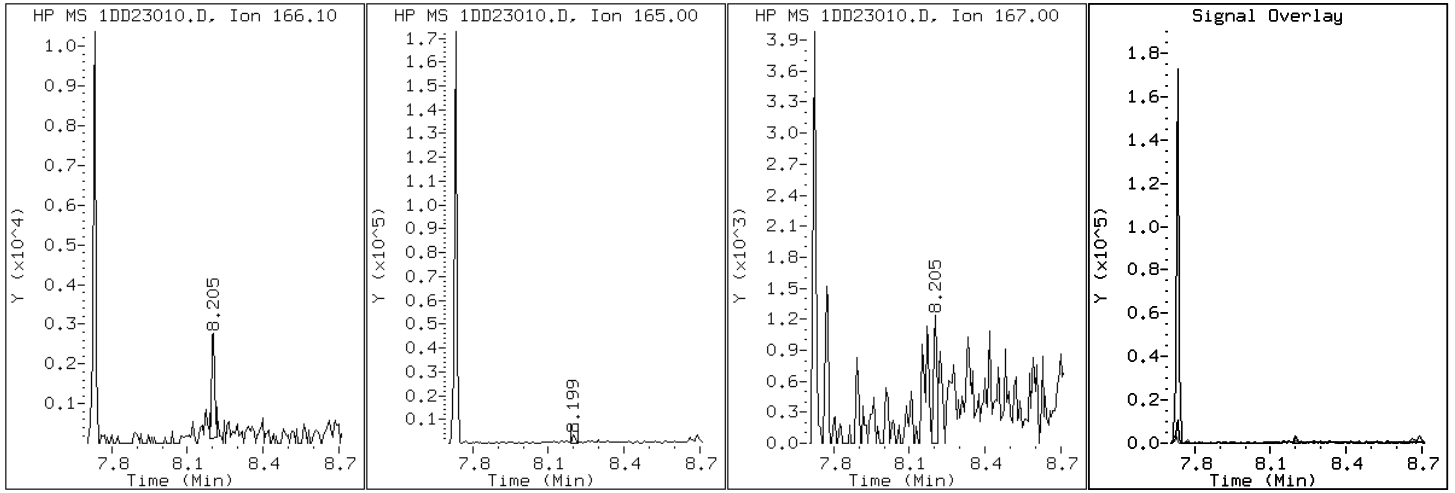
Client ID: CV1350A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-25-A

Operator: SCC

8 Fluorene



Data File: 1DD23010.D

Date: 23-APR-2013 16:22

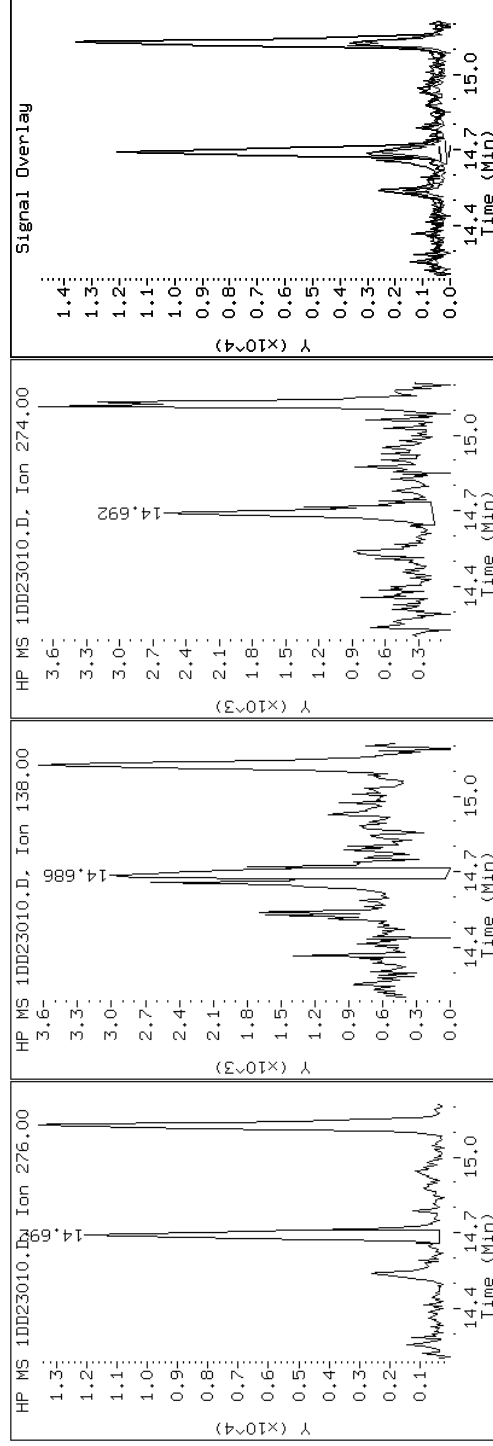
Client ID: CVI350A-CS

Instrument: BSMMSD.i

Sample Info: 680-89328-A-25-A

Operator: SCC

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



Data File: 1DD23010.D

Date: 23-APR-2013 16:22

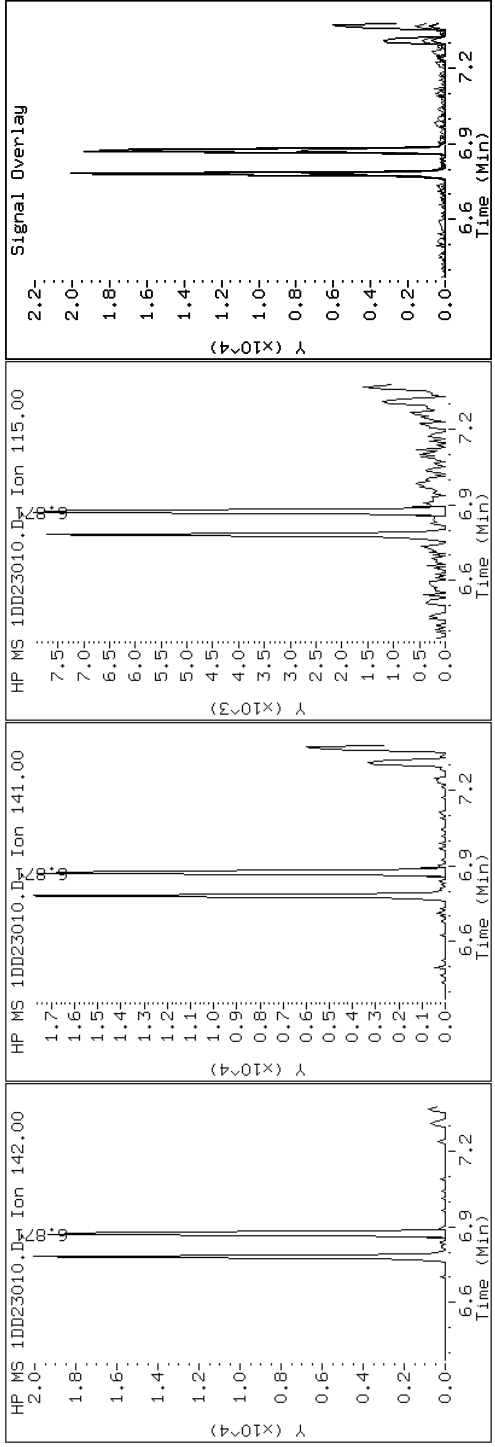
Client ID: CV1350A-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-25-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD23010.D

Date: 23-APR-2013 16:22

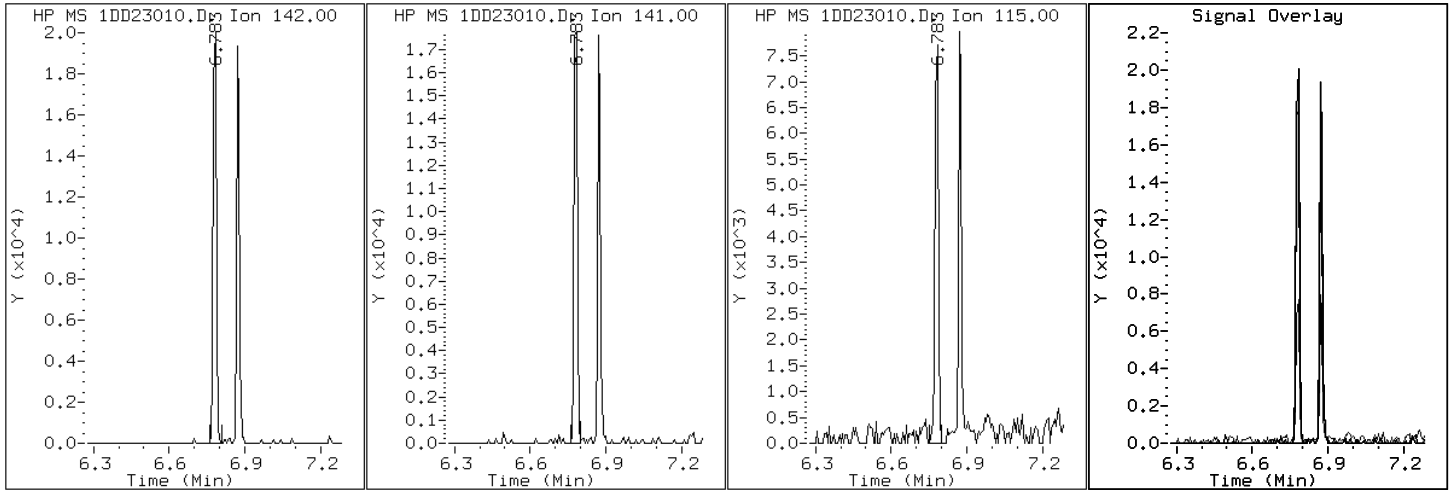
Client ID: CV1350A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-25-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD23010.D

Date: 23-APR-2013 16:22

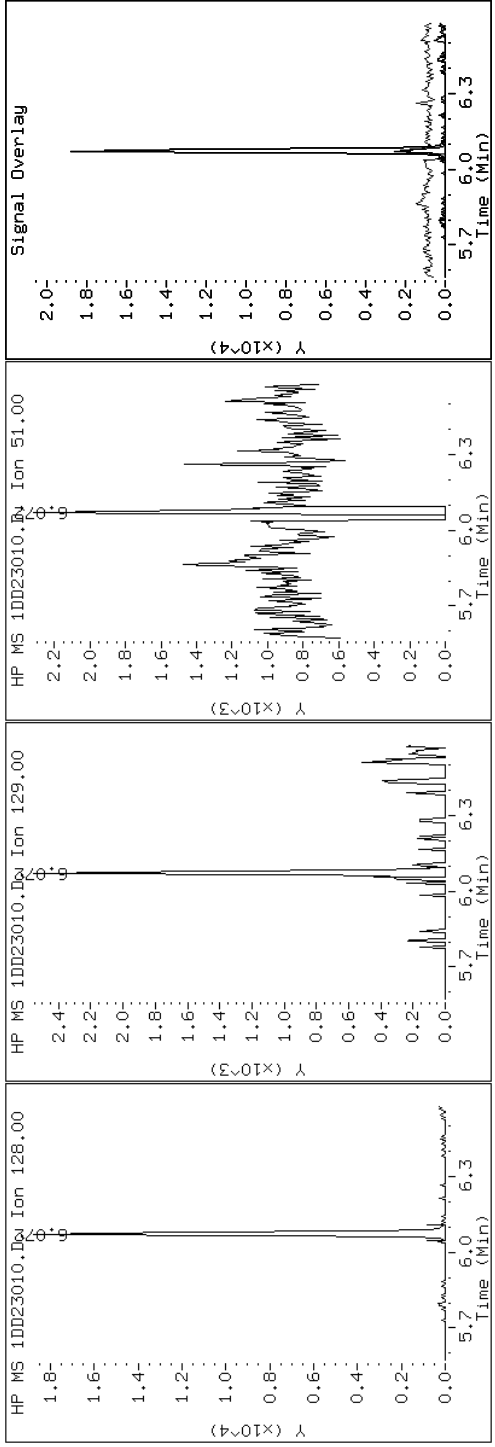
Client ID: CVI350A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-25-A

Operator: SCC

2 Naphthalene



Data File: 1DD23010.D

Date: 23-APR-2013 16:22

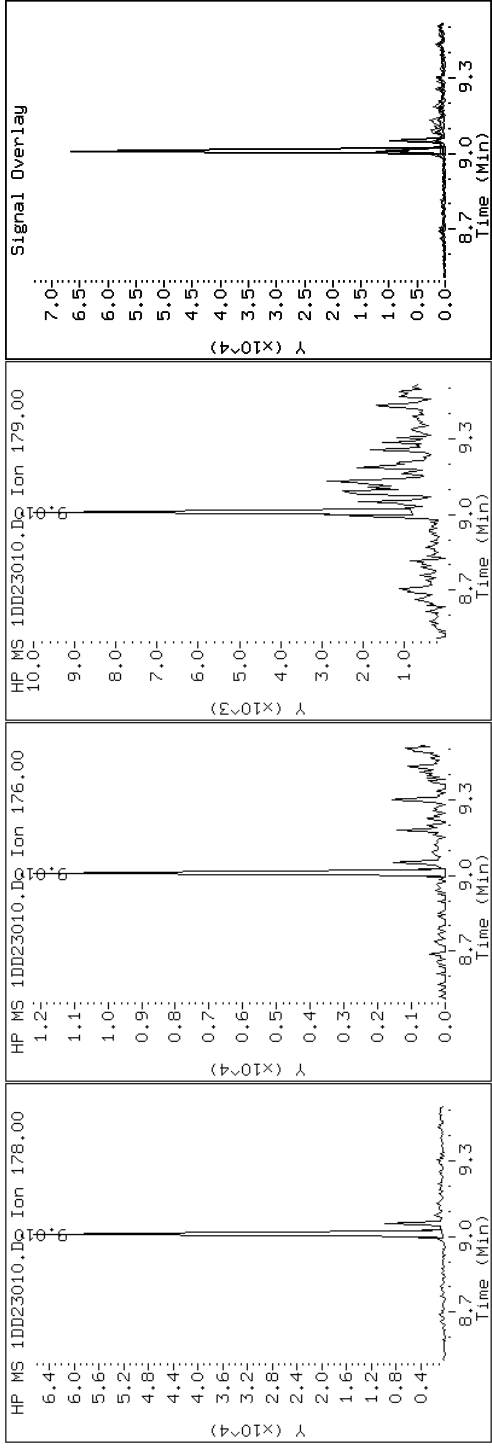
Client ID: CVI350A-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-25-A

Operator: SCC

10 Phenanthrene



Data File: 1DD23010.D

Date: 23-APR-2013 16:22

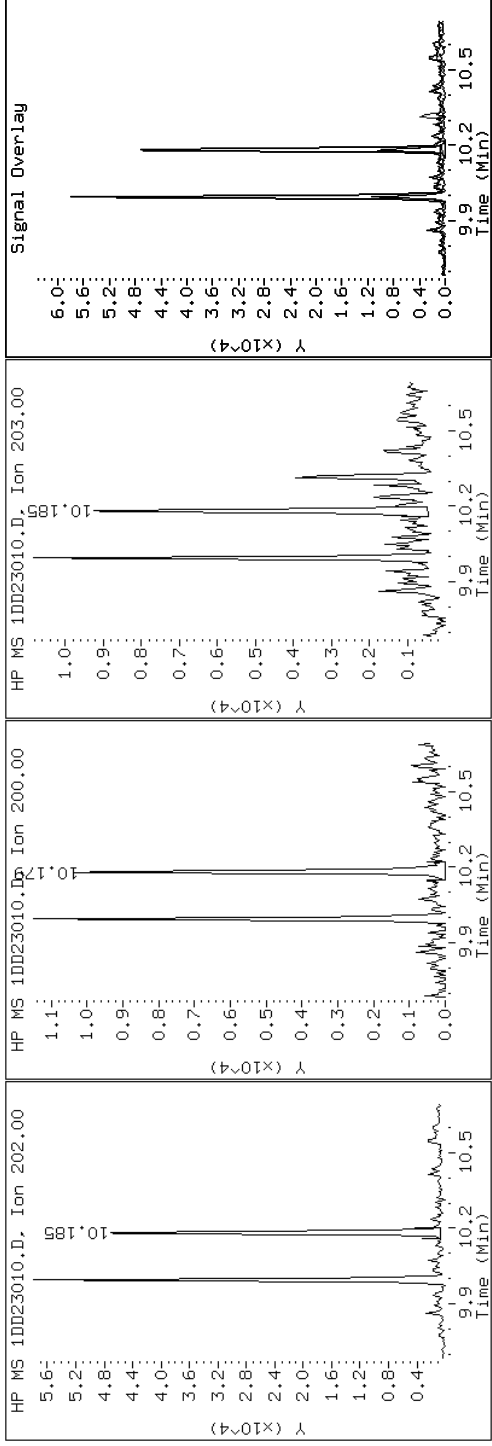
Client ID: CVI350A-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-25-A

Operator: SCC

15 Pyrene

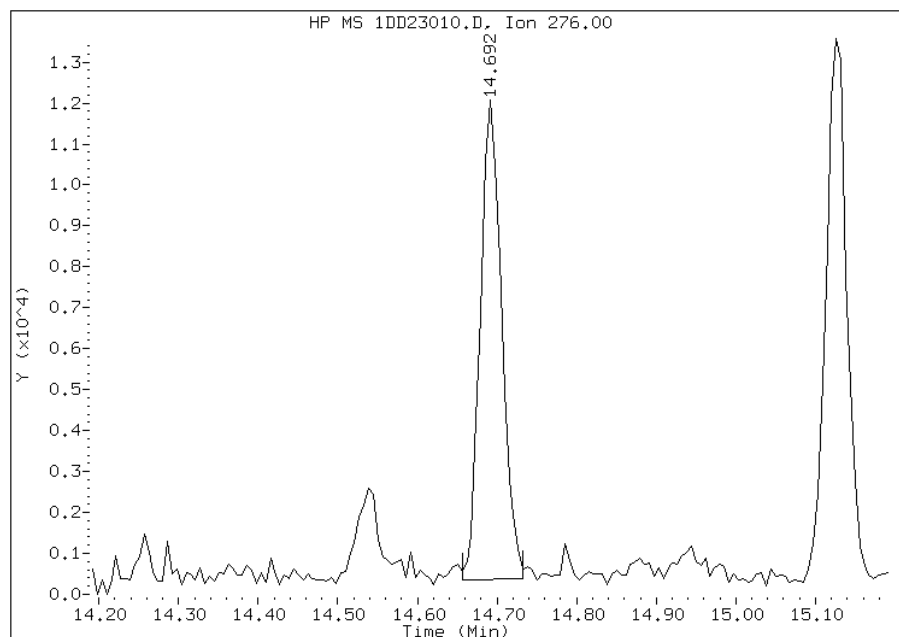


Manual Integration Report

Data File: 1DD23010.D
Inj. Date and Time: 23-APR-2013 16:22
Instrument ID: BSMSD.i
Client ID: CV1350A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

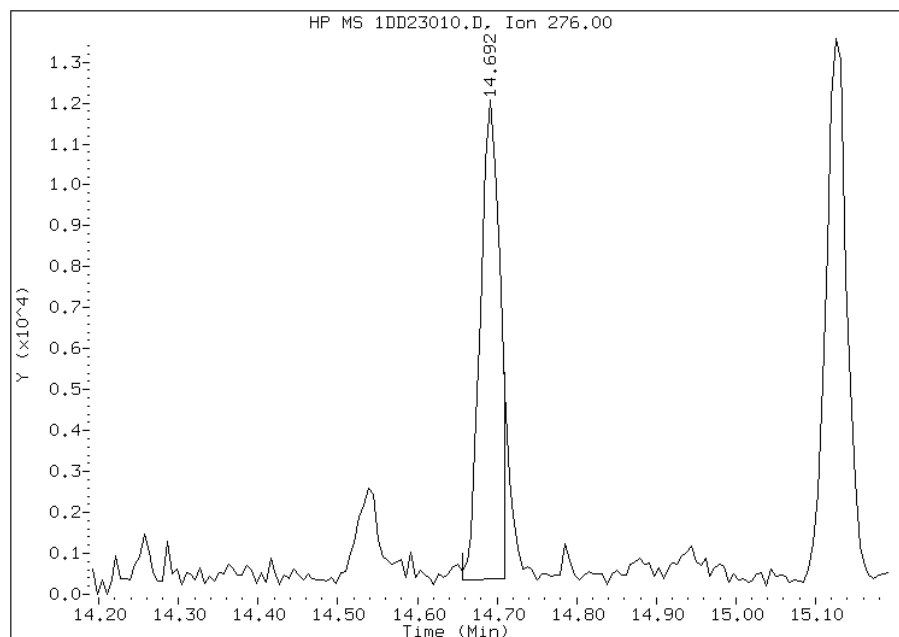
Processing Integration Results

RT: 14.69
Response: 21650
Amount: 0
Conc: 164



Manual Integration Results

RT: 14.69
Response: 19891
Amount: 0
Conc: 151



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: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 Client Sample ID: CV1350B-CS Lab Sample ID: 680-89328-26
 Matrix: Solid Lab File ID: 1DD22022.D
 Analysis Method: 8270C LL Date Collected: 04/11/2013 14:20
 Extract. Method: 3546 Date Extracted: 04/18/2013 15:43
 Sample wt/vol: 15.04(g) Date Analyzed: 04/22/2013 17:54
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 7.4 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136733 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	69		43	5.4
120-12-7	Anthracene	100		9.0	4.5
56-55-3	Benzo[a]anthracene	91		8.6	4.2
50-32-8	Benzo[a]pyrene	100		11	5.6
205-99-2	Benzo[b]fluoranthene	280		13	6.6
191-24-2	Benzo[g,h,i]perylene	60		22	4.7
207-08-9	Benzo[k]fluoranthene	72		8.6	3.9
218-01-9	Chrysene	120		9.7	4.8
53-70-3	Dibenz(a,h)anthracene	22		22	4.4
206-44-0	Fluoranthene	130		22	4.3
86-73-7	Fluorene	7.3	J	22	4.4
193-39-5	Indeno[1,2,3-cd]pyrene	63		22	7.6
90-12-0	1-Methylnaphthalene	17	J	43	4.7
91-57-6	2-Methylnaphthalene	24	J	43	7.6
91-20-3	Naphthalene	22	J	43	4.7
85-01-8	Phenanthrene	74		8.6	4.2
129-00-0	Pyrene	100		22	4.0

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22022.D
 Lab Smp Id: 680-89328-A-26-A Client Smp ID: CV1350B-CS
 Inj Date : 22-APR-2013 17:54
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89328-A-26-A
 Misc Info : 680-89328-A-26-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
 Meth Date : 22-Apr-2013 11:04 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	15.040	Weight Extracted
M	7.407	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL			
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)
* 1 Naphthalene-d8	136	6.066	6.054	(1.000)	1960530	40.0000	
* 6 Acenaphthene-d10	164	7.741	7.734	(1.000)	1159544	40.0000	
* 9 Phenanthrene-d10	188	9.004	8.998	(1.000)	1936559	40.0000	
\$ 13 o-Terphenyl	230	9.309	9.309	(1.034)	150045	5.14225	370
* 17 Chrysene-d12	240	11.325	11.307	(1.000)	2406713	40.0000	
* 22 Perylene-d12	264	13.158	13.122	(1.000)	2052224	40.0000	(H)
2 Naphthalene	128	6.084	6.077	(1.003)	14633	0.30029	22
3 2-Methylnaphthalene	142	6.789	6.783	(1.119)	10414	0.33106	24
4 1-Methylnaphthalene	142	6.883	6.877	(1.135)	6911	0.23265	17
5 Acenaphthylene	152	7.617	7.611	(0.984)	47056	0.95882	69
8 Fluorene	166	8.211	8.204	(1.061)	3625	0.10105	7.2
10 Phenanthrene	178	9.022	9.015	(1.002)	55292	1.03656	74
11 Anthracene	178	9.063	9.056	(1.007)	75070	1.41793	100
12 Carbazole	167	9.204	9.197	(1.022)	14944	0.32000	23

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.009	10.002 (1.112)		102775	1.87233	130
15 Pyrene	202	10.197	10.184 (0.900)		102223	1.41439	100
16 Benzo(a)anthracene	228	11.313	11.289 (0.999)		87844	1.26244	91
18 Chrysene	228	11.342	11.330 (1.002)		110026	1.68638	120
19 Benzo(b)fluoranthene	252	12.611	12.582 (0.958)		200857	3.91801	280(H)
20 Benzo(k)fluoranthene	252	12.641	12.623 (0.961)		53887	0.99776	72(H)
21 Benzo(a)pyrene	252	13.058	13.034 (0.992)		75260	1.46109	100(H)
23 Indeno(1,2,3-cd)pyrene	276	14.738	14.709 (1.120)		48315	0.87967	63(MH)
24 Dibenzo(a,h)anthracene	278	14.768	14.732 (1.122)		15653	0.30264	22(H)
25 Benzo(g,h,i)perylene	276	15.185	15.143 (1.154)		44522	0.84187	60(H)

QC Flag Legend

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

Data File: 1DD22022.D

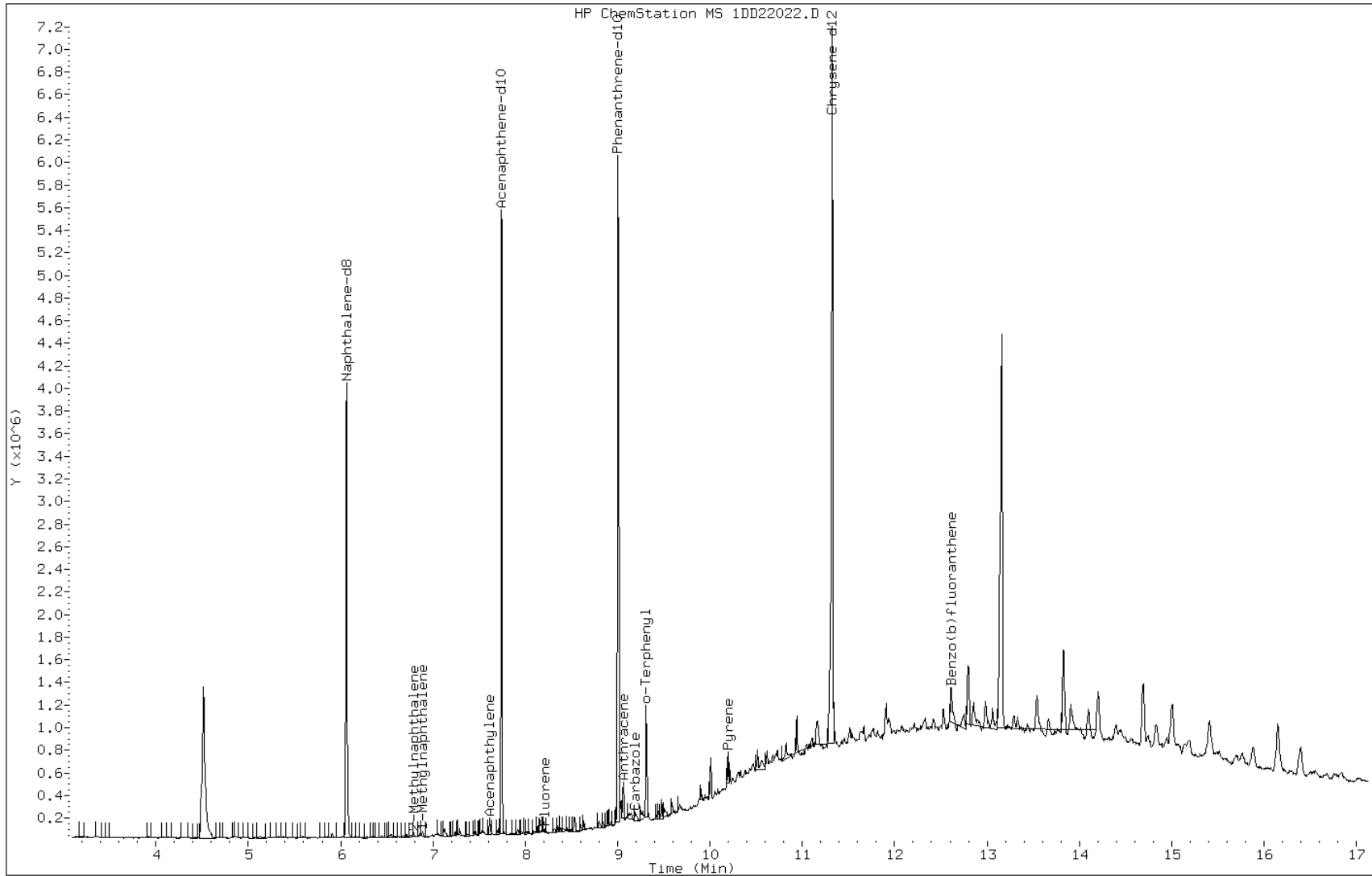
Date: 22-APR-2013 17:54

Client ID: CV1350B-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-26-A

Operator: SCC



Data File: 1DD22022.D

Date: 22-APR-2013 17:54

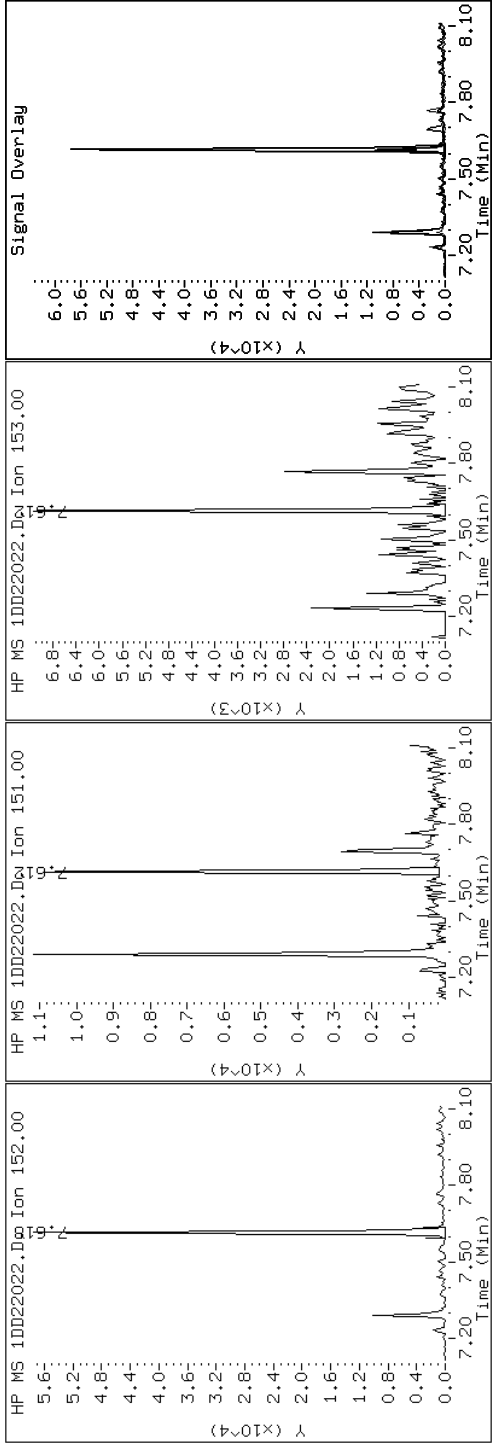
Client ID: CVI350B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-26-A

Operator: SCC

5 Acenaphthylene



Data File: 1DD22022.D

Date: 22-APR-2013 17:54

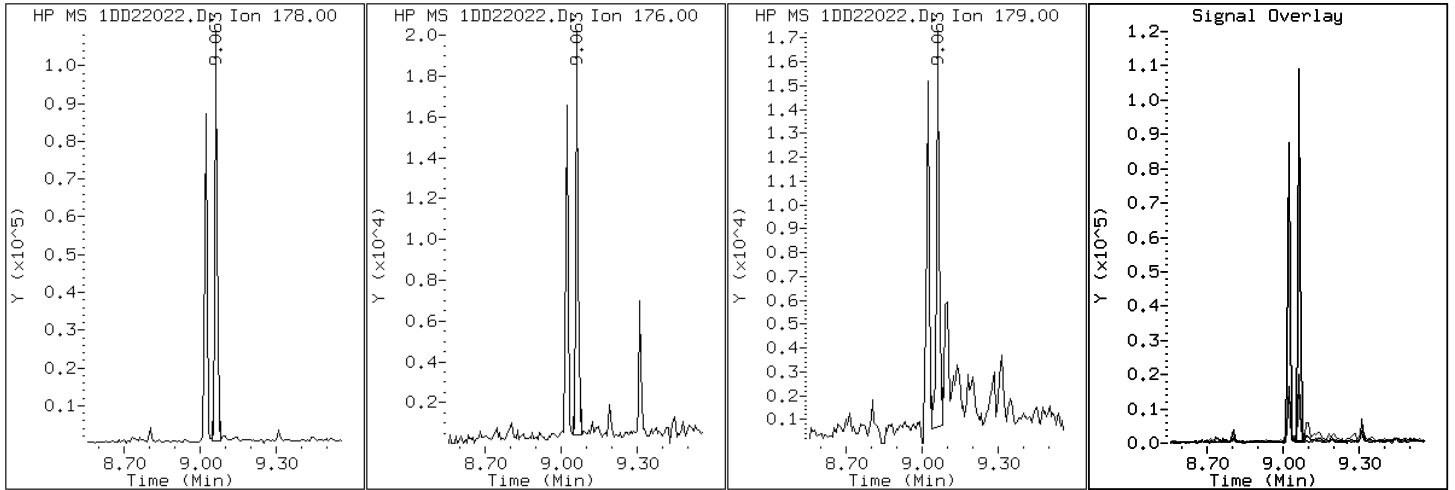
Client ID: CV1350B-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-26-A

Operator: SCC

11 Anthracene



Data File: 1DD22022.D

Date: 22-APR-2013 17:54

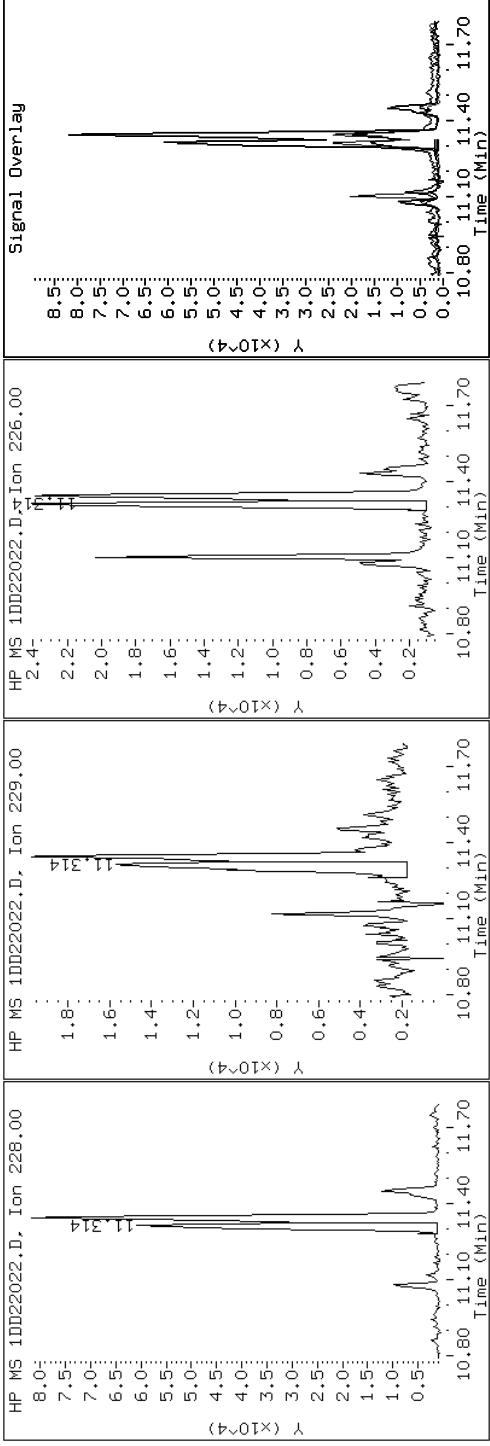
Client ID: CVI350B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-26-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD22022.D

Date: 22-APR-2013 17:54

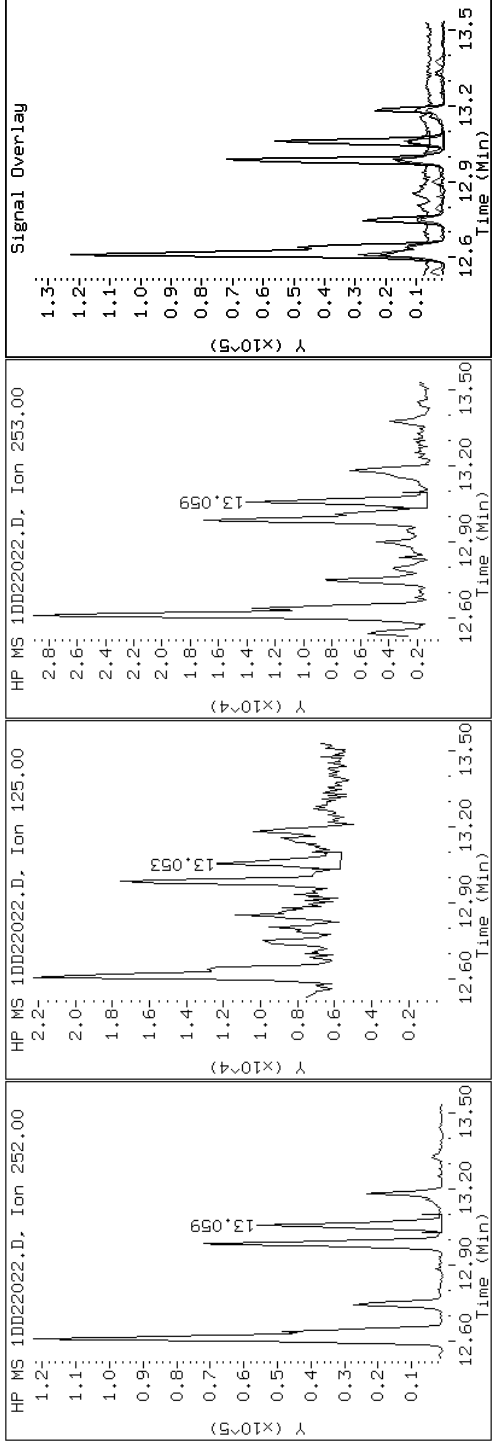
Client ID: CVI350B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-26-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD22022.D

Date: 22-APR-2013 17:54

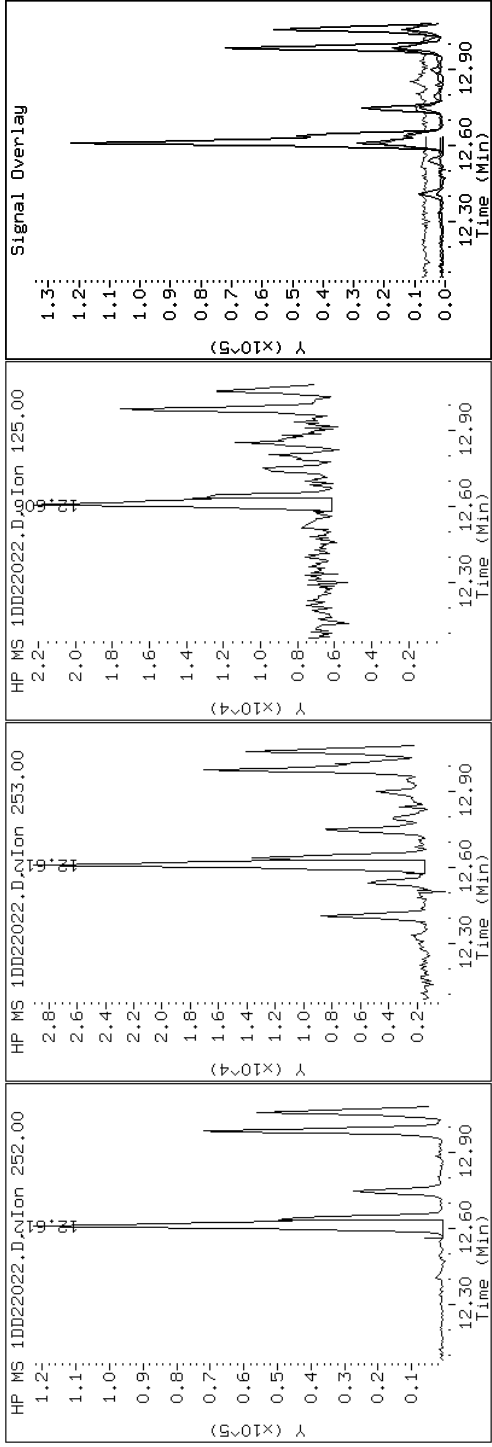
Client ID: CVI350B-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-26-A

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD22022.D

Date: 22-APR-2013 17:54

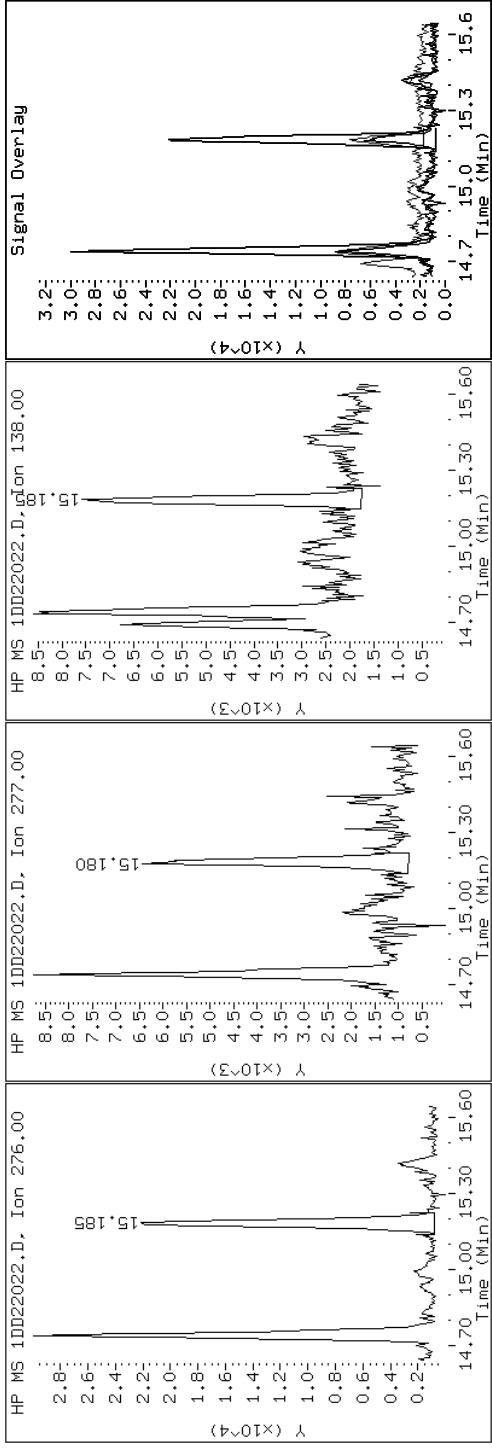
Client ID: CVI350B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-26-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD22022.D

Date: 22-APR-2013 17:54

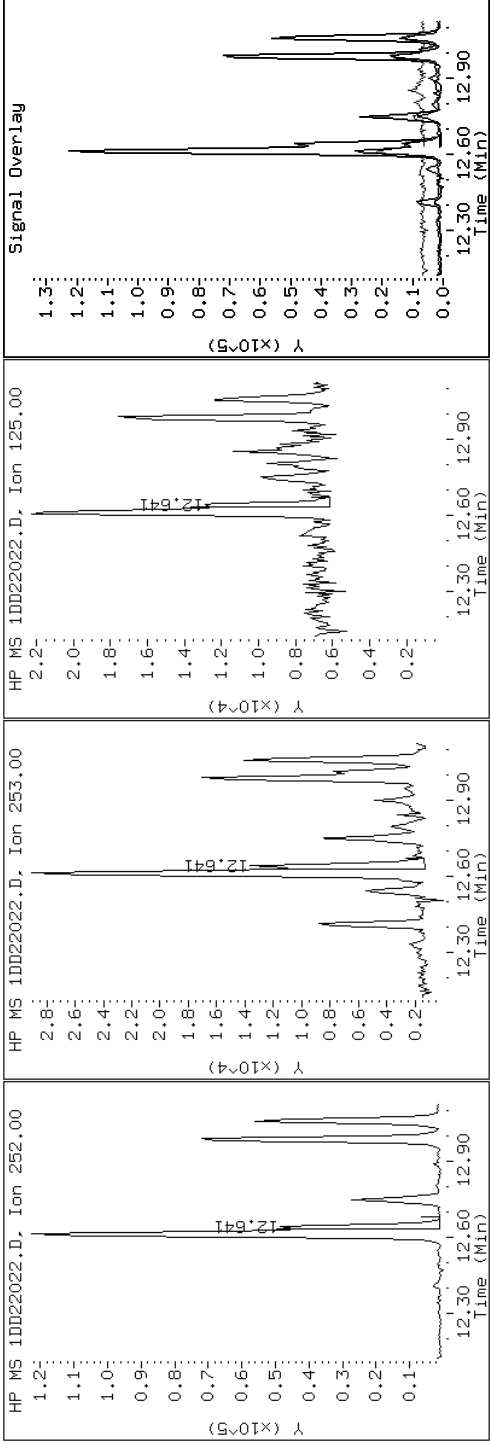
Client ID: CVI350B-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-26-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD22022.D

Date: 22-APR-2013 17:54

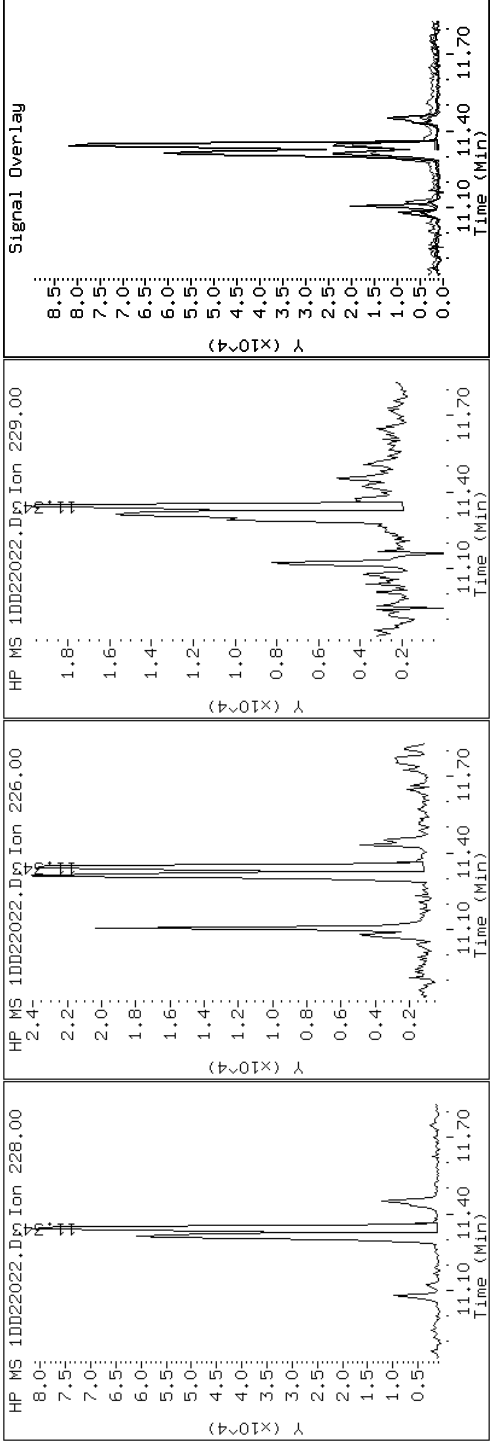
Client ID: CVI350B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-26-A

Operator: SCC

18 Chrysene



Data File: 1DD22022.D

Date: 22-APR-2013 17:54

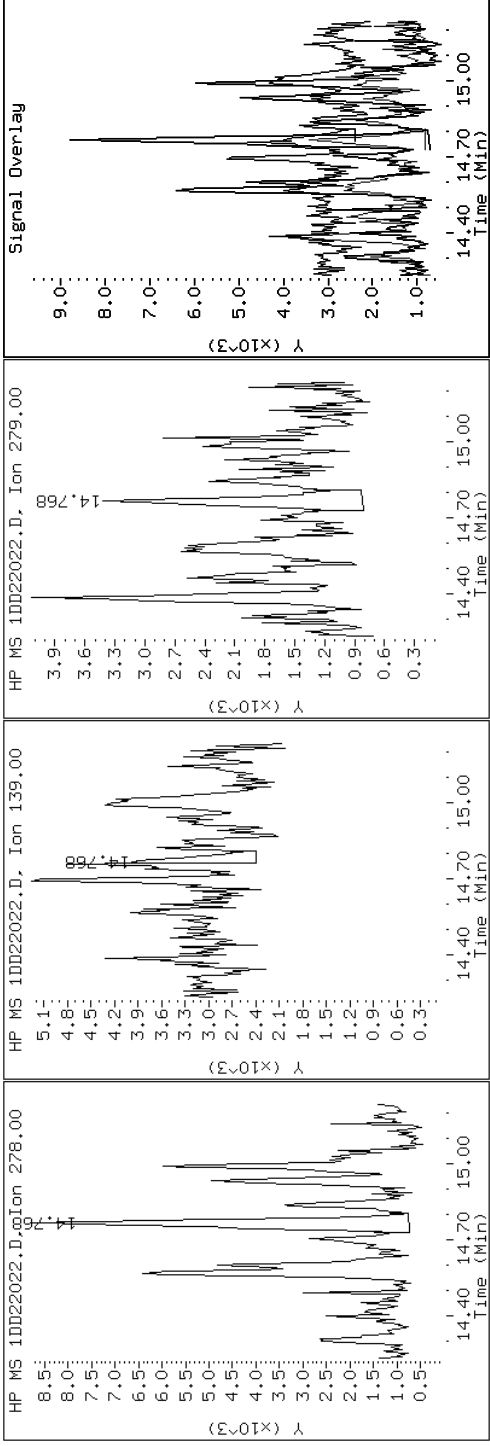
Client ID: CVI350B-CS

Instrument: BSMMSD.i

Sample Info: 680-89328-A-26-A

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD22022.D

Date: 22-APR-2013 17:54

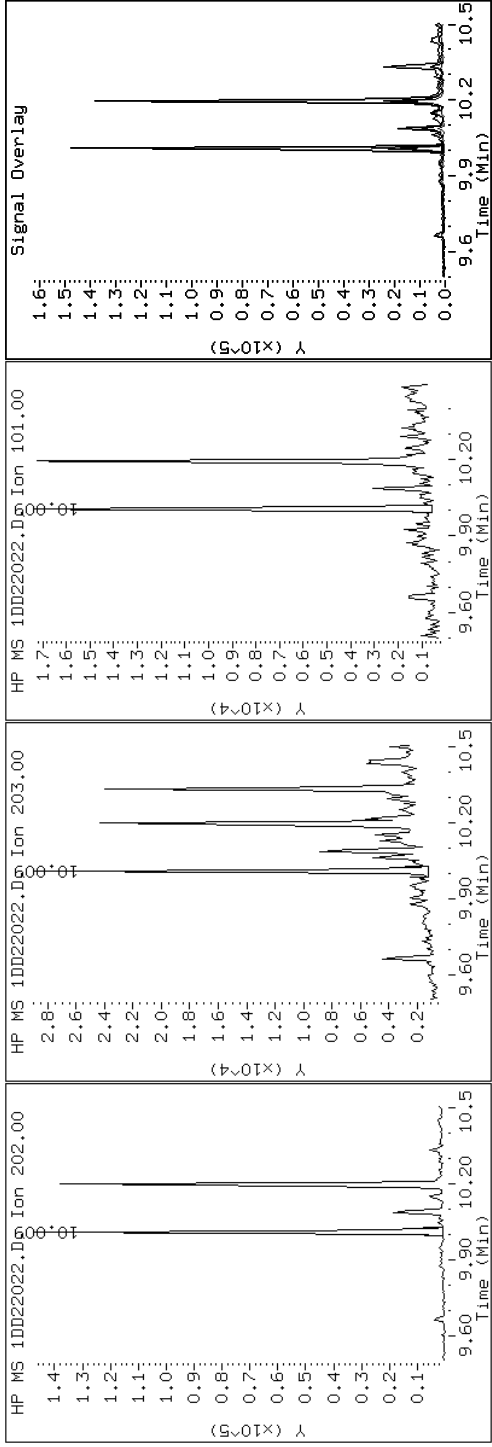
Client ID: CVI350B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-26-A

Operator: SCC

14 Fluoranthene



Data File: 1DD22022.D

Date: 22-APR-2013 17:54

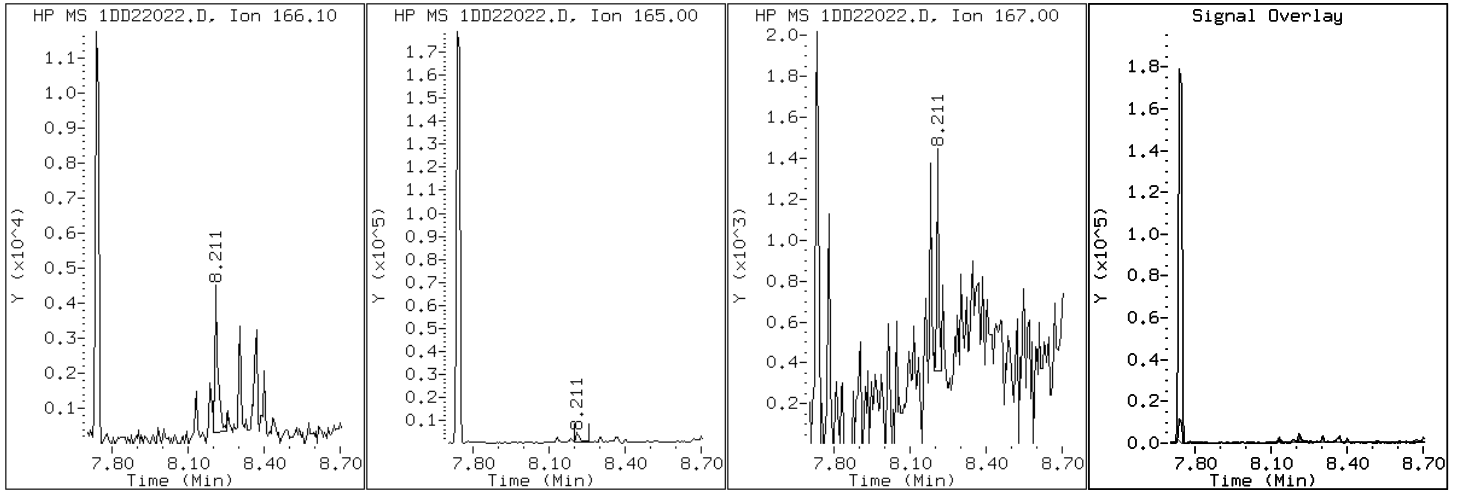
Client ID: CV1350B-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-26-A

Operator: SCC

8 Fluorene



Data File: 1DD22022.D

Date: 22-APR-2013 17:54

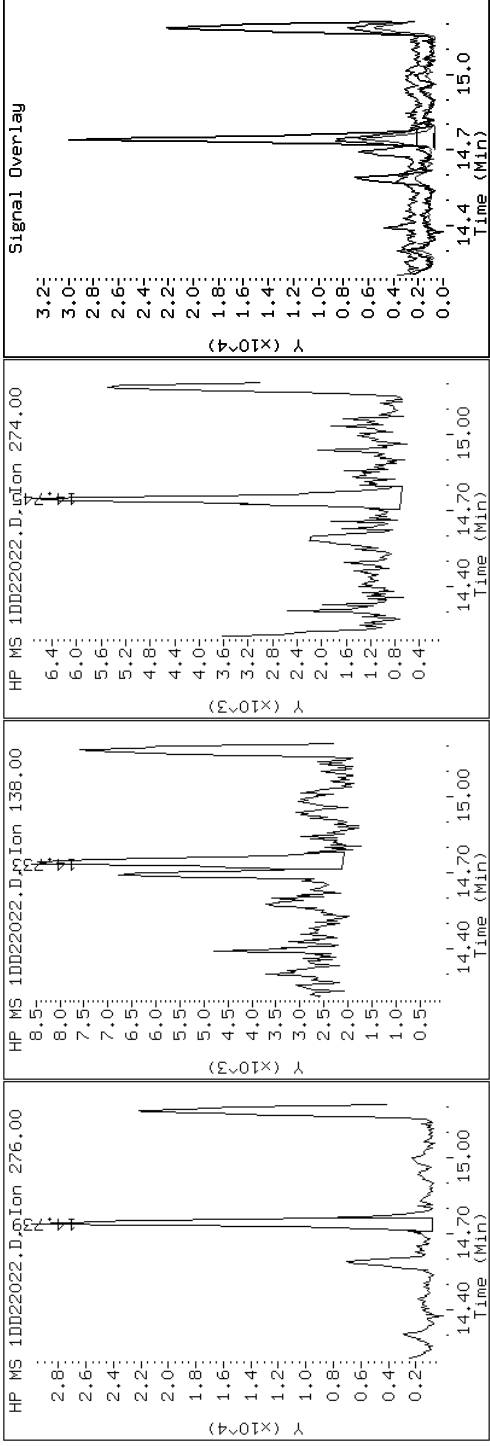
Client ID: CVI350B-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-26-A

Operator: SCC

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



Data File: 1DD22022.D

Date: 22-APR-2013 17:54

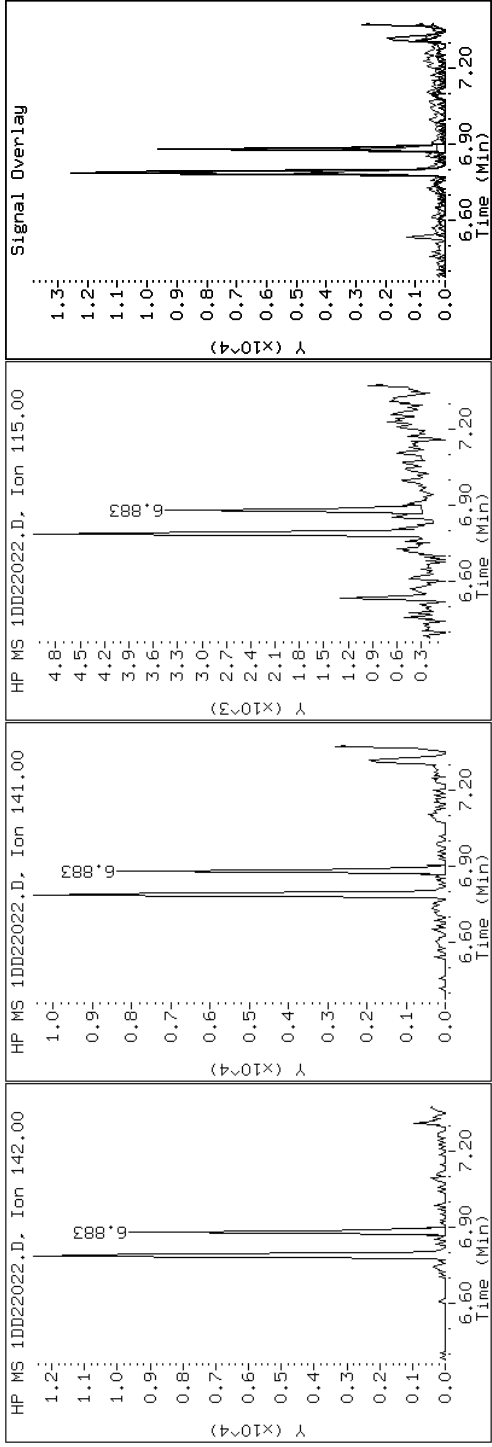
Client ID: CVI350B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-26-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD22022.D

Date: 22-APR-2013 17:54

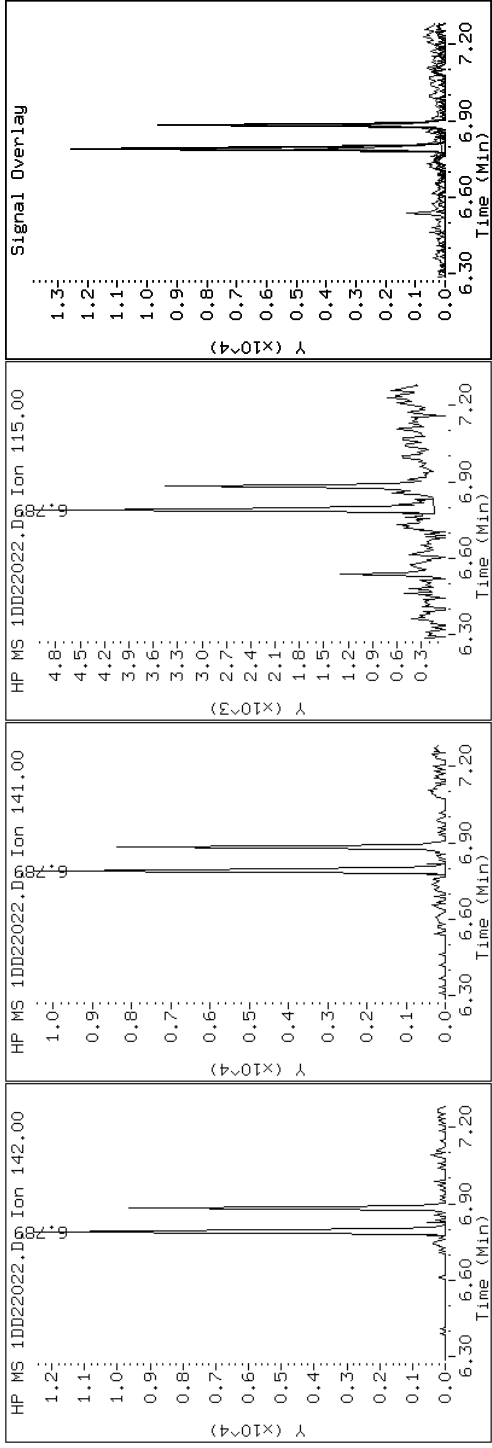
Client ID: CVI350B-CS

Instrument: BSMMSD.i

Sample Info: 680-89328-A-26-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD22022.D

Date: 22-APR-2013 17:54

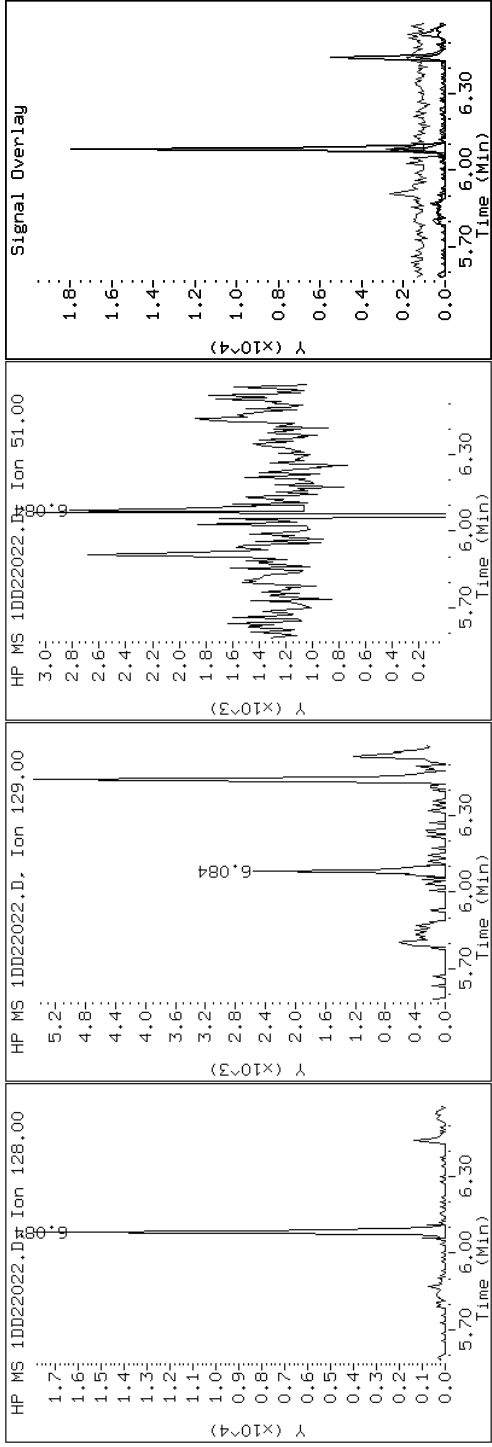
Client ID: CVI350B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-26-A

Operator: SCC

2 Naphthalene



Data File: 1DD22022.D

Date: 22-APR-2013 17:54

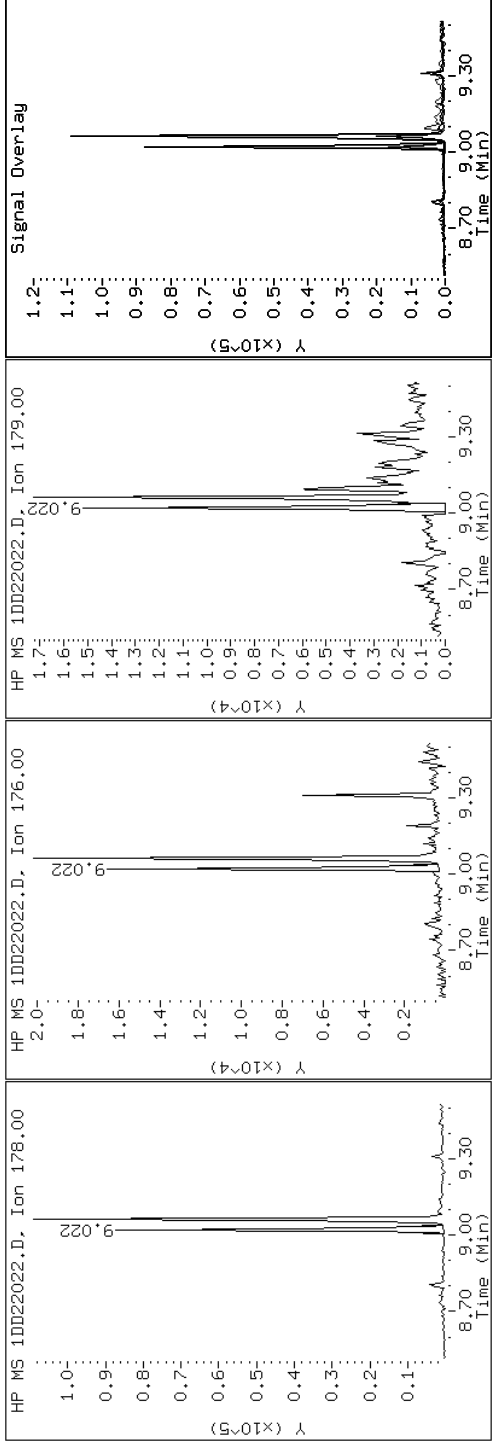
Client ID: CV1350B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-26-A

Operator: SCC

10 Phenanthrene



Data File: 1DD22022.D

Date: 22-APR-2013 17:54

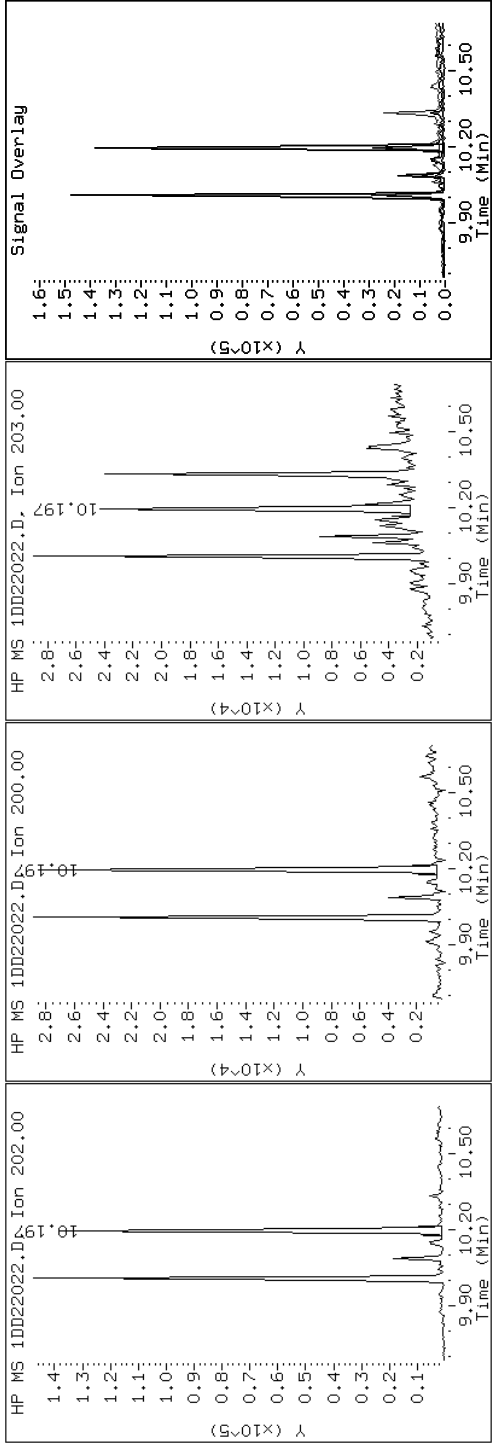
Client ID: CVI350B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-26-A

Operator: SCC

15 Pyrene

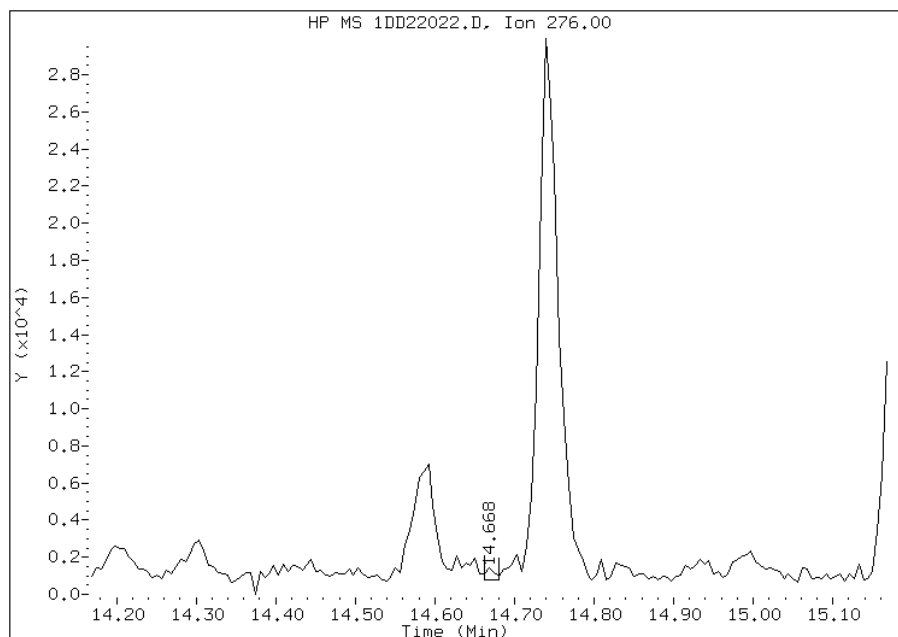


Manual Integration Report

Data File: 1DD22022.D
Inj. Date and Time: 22-APR-2013 17:54
Instrument ID: BSMSD.i
Client ID: CV1350B-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

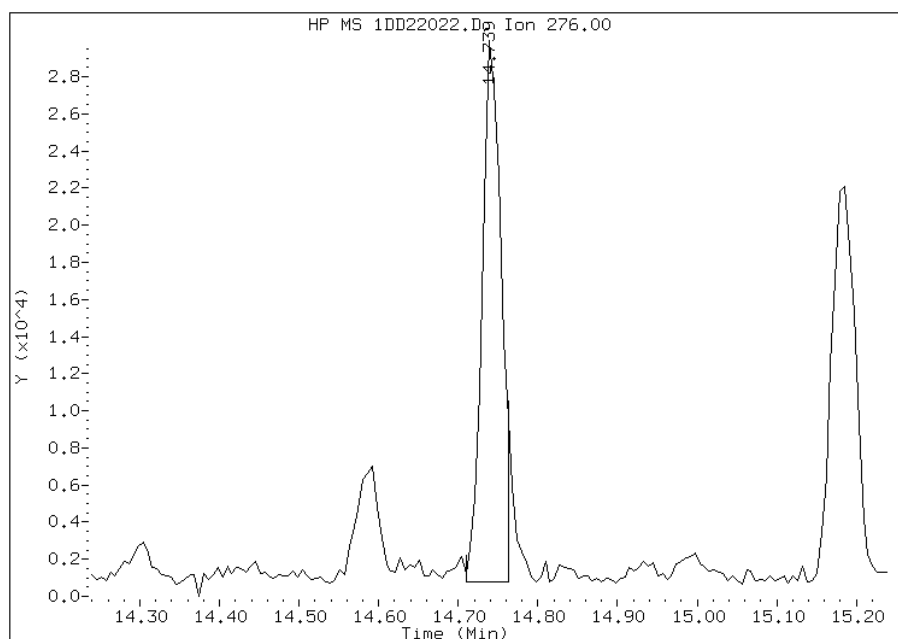
Processing Integration Results

RT: 14.67
Response: 556
Amount: 0
Conc: 1



Manual Integration Results

RT: 14.74
Response: 48315
Amount: 1
Conc: 63



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 10:27
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 Client Sample ID: CV0695A-CS Lab Sample ID: 680-89328-27
 Matrix: Solid Lab File ID: 1DD22023.D
 Analysis Method: 8270C LL Date Collected: 04/12/2013 08:40
 Extract. Method: 3546 Date Extracted: 04/18/2013 15:43
 Sample wt/vol: 15.04(g) Date Analyzed: 04/22/2013 18:16
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 20.7 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136733 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	8.8	J	50	6.3
120-12-7	Anthracene	20		11	5.3
56-55-3	Benzo[a]anthracene	85		10	4.9
50-32-8	Benzo[a]pyrene	77		13	6.5
205-99-2	Benzo[b]fluoranthene	160		15	7.7
191-24-2	Benzo[g,h,i]perylene	42		25	5.5
207-08-9	Benzo[k]fluoranthene	46		10	4.5
218-01-9	Chrysene	140		11	5.7
53-70-3	Dibenz(a,h)anthracene	17	J	25	5.2
206-44-0	Fluoranthene	160		25	5.0
86-73-7	Fluorene	9.3	J	25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	39		25	8.9
90-12-0	1-Methylnaphthalene	49	J	50	5.5
91-57-6	2-Methylnaphthalene	60		50	8.9
91-20-3	Naphthalene	46	J	50	5.5
85-01-8	Phenanthrene	140		10	4.9
129-00-0	Pyrene	110		25	4.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	68		30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22023.D
 Lab Smp Id: 680-89328-A-27-A Client Smp ID: CV0695A-CS
 Inj Date : 22-APR-2013 18:16
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89328-A-27-A
 Misc Info : 680-89328-A-27-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
 Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 23
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	20.674	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL			
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)
* 1 Naphthalene-d8	136	6.066	6.054	(1.000)	2010573	40.0000	
* 6 Acenaphthene-d10	164	7.747	7.734	(1.000)	1190650	40.0000	
* 9 Phenanthrene-d10	188	9.010	8.998	(1.000)	1978615	40.0000	
\$ 13 o-Terphenyl	230	9.315	9.309	(1.034)	203255	6.81777	570
* 17 Chrysene-d12	240	11.325	11.307	(1.000)	2354073	40.0000	
* 22 Perylene-d12	264	13.158	13.122	(1.000)	2028850	40.0000	(H)
2 Naphthalene	128	6.084	6.077	(1.003)	27188	0.54404	46
3 2-Methylnaphthalene	142	6.789	6.783	(1.119)	23211	0.71951	60
4 1-Methylnaphthalene	142	6.883	6.877	(1.135)	17950	0.58921	49
5 Acenaphthylene	152	7.617	7.611	(0.983)	5270	0.10458	8.8
8 Fluorene	166	8.211	8.204	(1.060)	4090	0.11103	9.3
10 Phenanthrene	178	9.022	9.015	(1.001)	93397	1.71370	140
11 Anthracene	178	9.063	9.056	(1.006)	13203	0.24408	20
12 Carbazole	167	9.210	9.197	(1.022)	10273	0.21531	18

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.009	10.002	(1.111)	110154	1.96411	160
15 Pyrene	202	10.197	10.184	(0.900)	89682	1.26862	110
16 Benzo(a)anthracene	228	11.313	11.289	(0.999)	69161	1.01616	85
18 Chrysene	228	11.342	11.330	(1.002)	109718	1.71926	140
19 Benzo(b)fluoranthene	252	12.606	12.582	(0.958)	96821	1.91039	160(H)
20 Benzo(k)fluoranthene	252	12.641	12.623	(0.961)	29001	0.54316	46(H)
21 Benzo(a)pyrene	252	13.058	13.034	(0.992)	46477	0.91270	76(H)
23 Indeno(1,2,3-cd)pyrene	276	14.738	14.709	(1.120)	25193	0.46397	39(MH)
24 Dibenzo(a,h)anthracene	278	14.762	14.732	(1.122)	10193	0.19935	17(H)
25 Benzo(g,h,i)perylene	276	15.179	15.143	(1.154)	25958	0.49650	42(H)

QC Flag Legend

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

Data File: 1DD22023.D

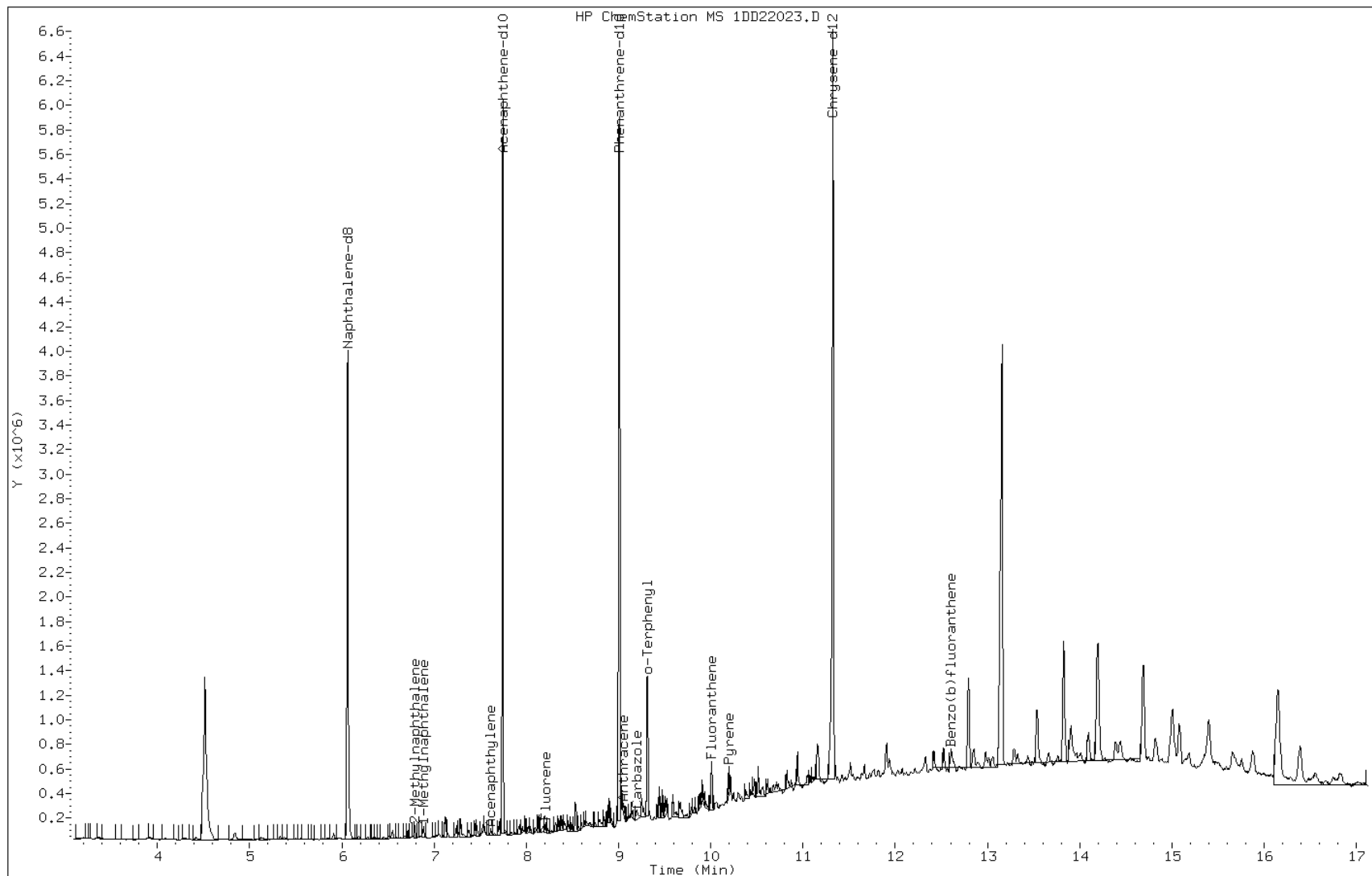
Date: 22-APR-2013 18:16

Client ID: CV0695A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-27-A

Operator: SCC



Data File: 1DD22023.D

Date: 22-APR-2013 18:16

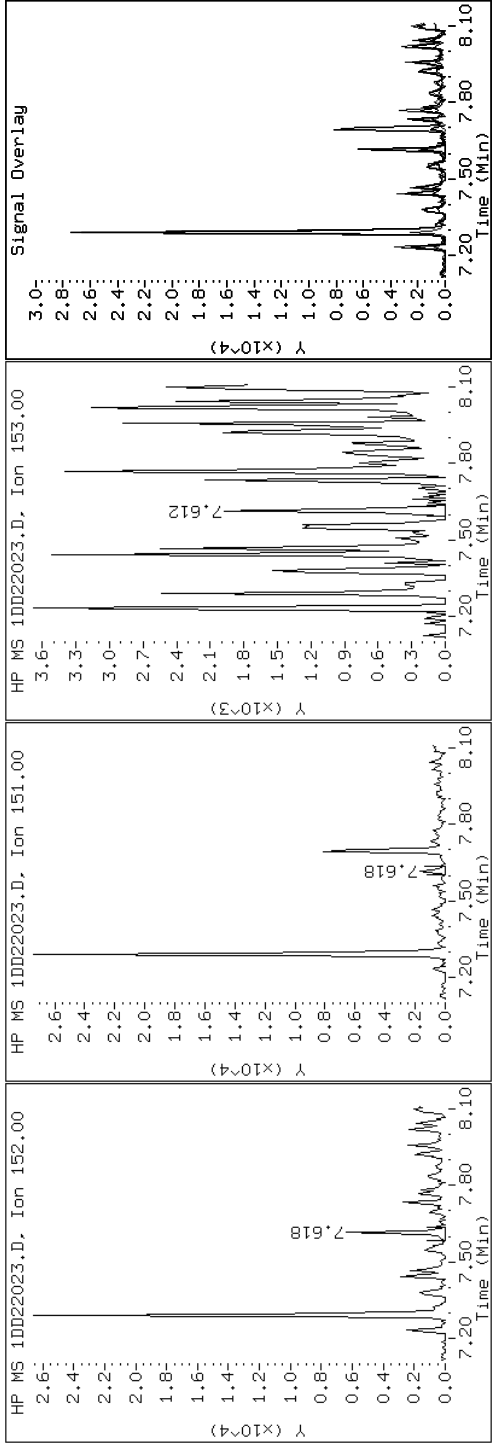
Client ID: CV0695A-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-27-A

Operator: SCC

5 Acenaphthylene



Data File: 1DD22023.D

Date: 22-APR-2013 18:16

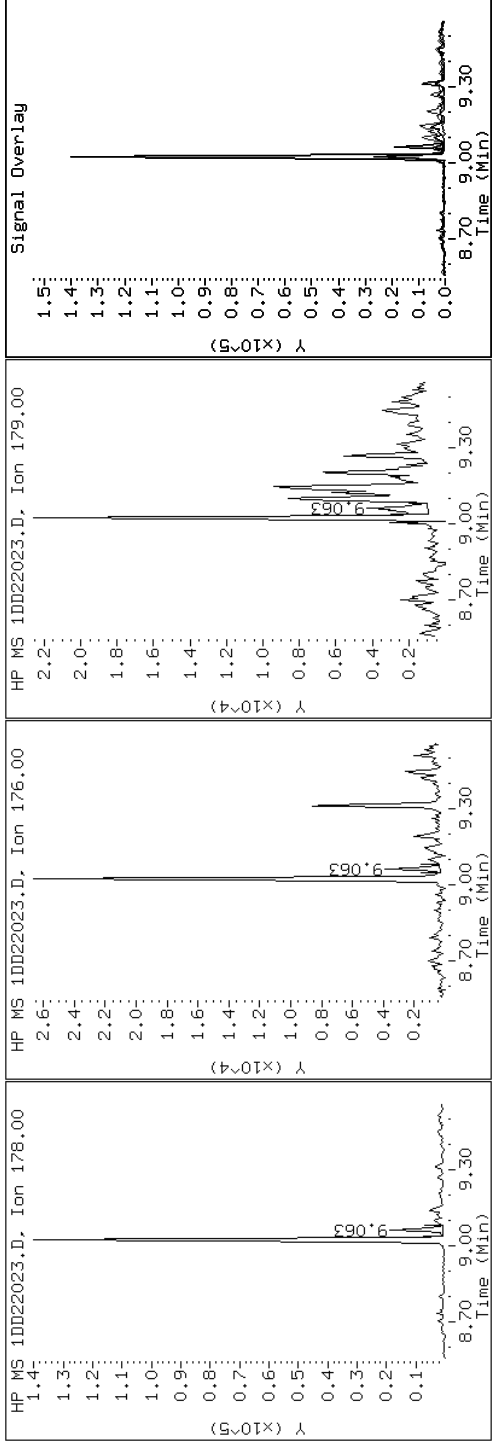
Client ID: CV0695A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-27-A

Operator: SCC

11 Anthracene



Data File: 1DD22023.D

Date: 22-APR-2013 18:16

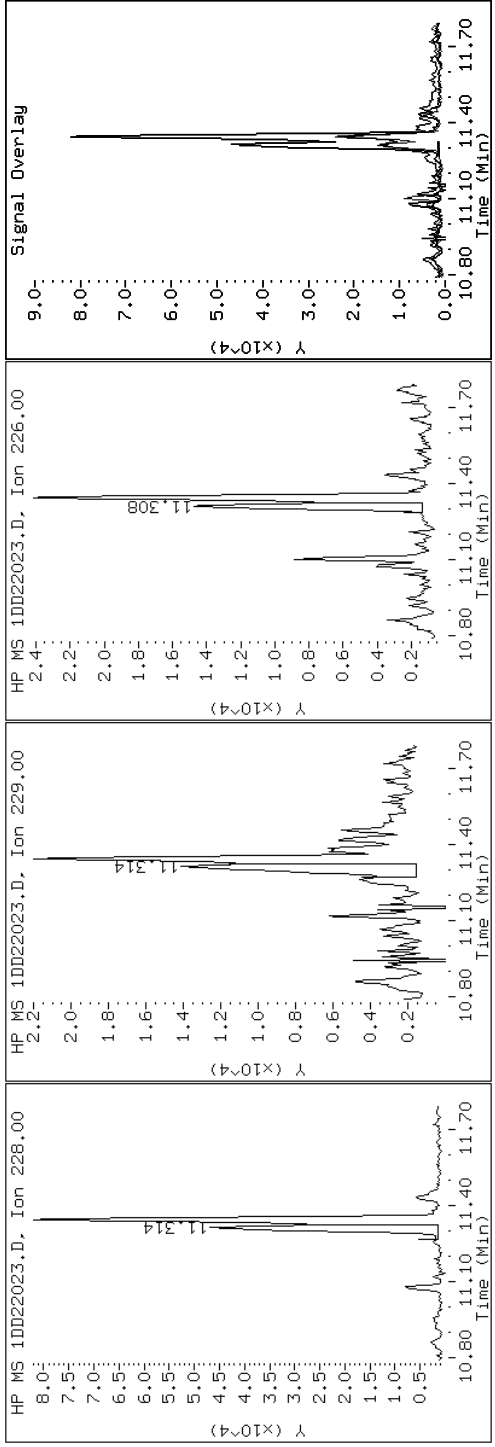
Client ID: CV0695A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-27-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD22023.D

Date: 22-APR-2013 18:16

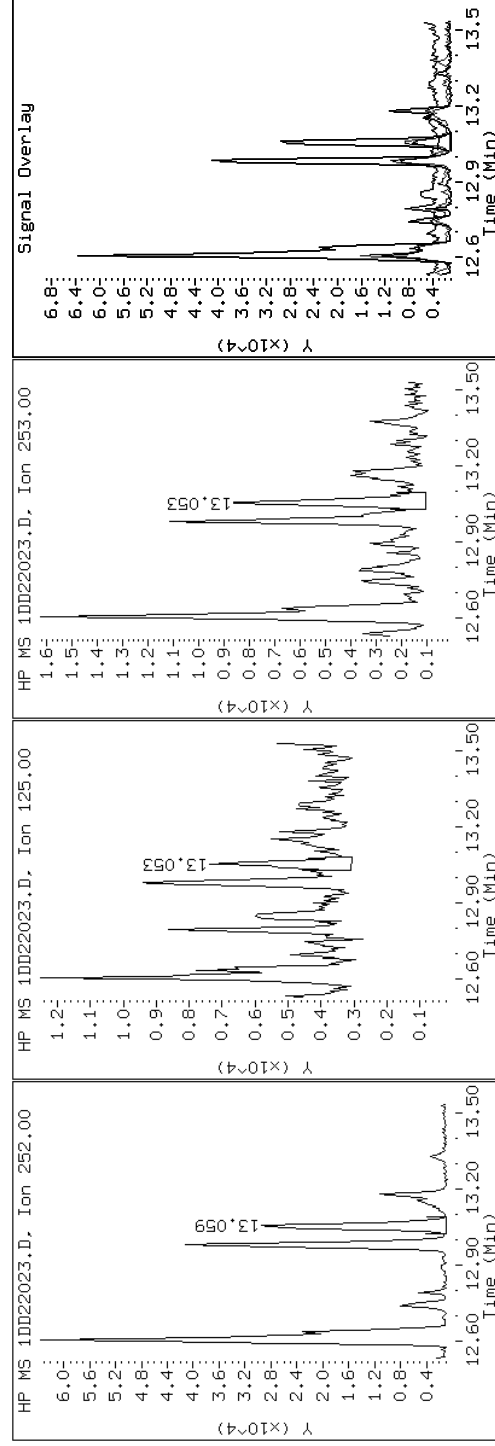
Client ID: CV0695A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-27-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD22023.D

Date: 22-APR-2013 18:16

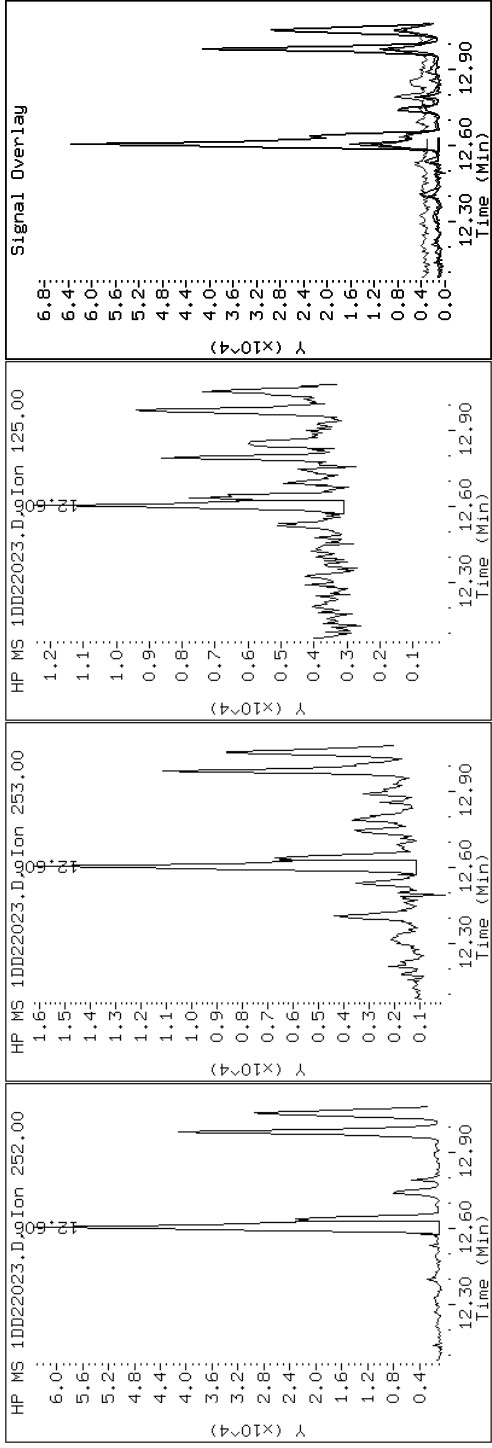
Client ID: CV0695A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-27-A

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD22023.D

Date: 22-APR-2013 18:16

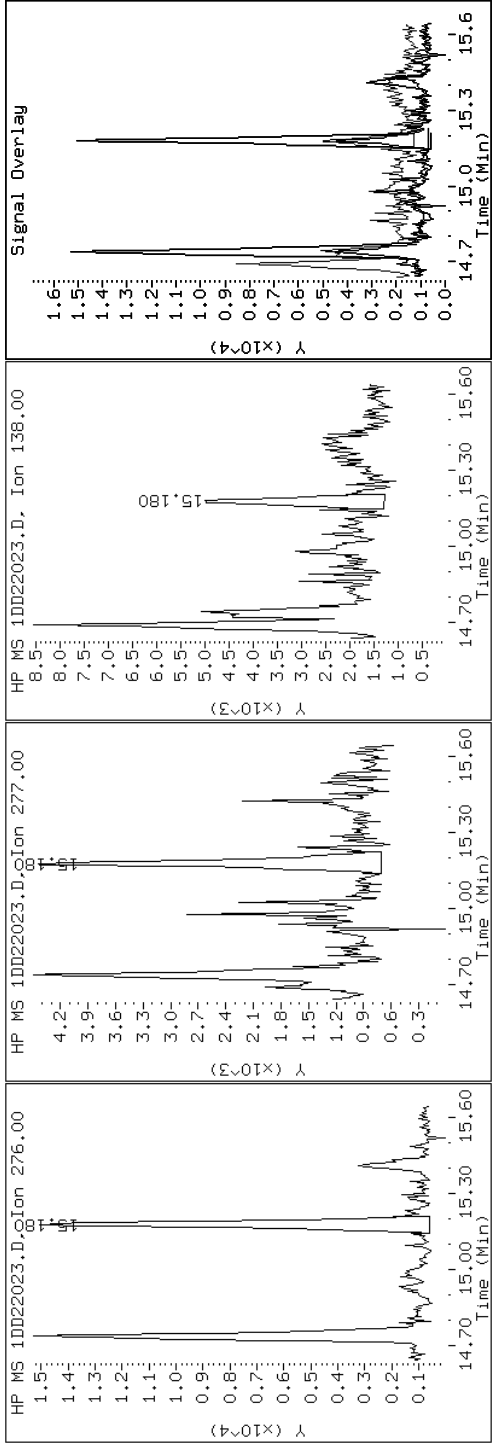
Client ID: CV0695A-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-27-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD22023.D

Date: 22-APR-2013 18:16

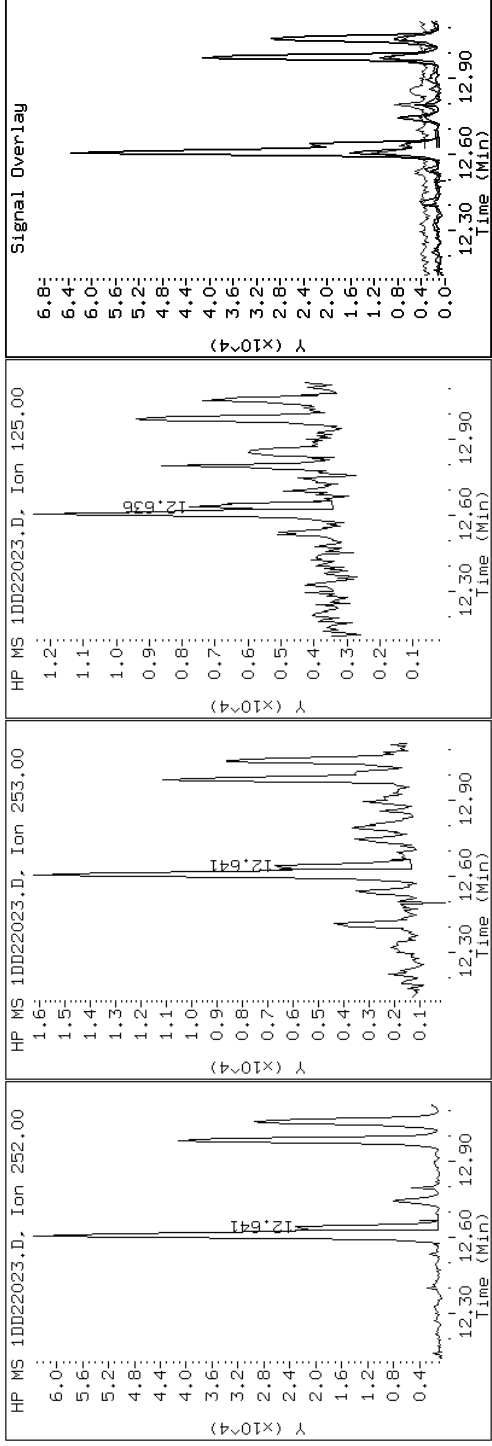
Client ID: CV0695A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-27-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD22023.D

Date: 22-APR-2013 18:16

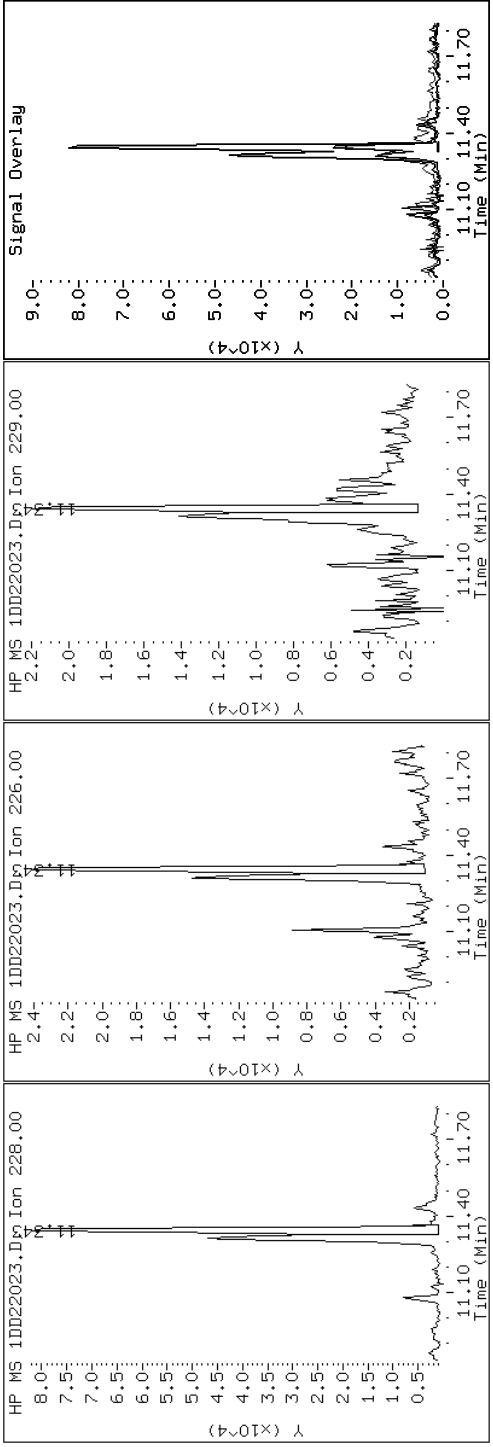
Client ID: CV0695A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-27-A

Operator: SCC

18 Chrysene



Data File: 1DD22023.D

Date: 22-APR-2013 18:16

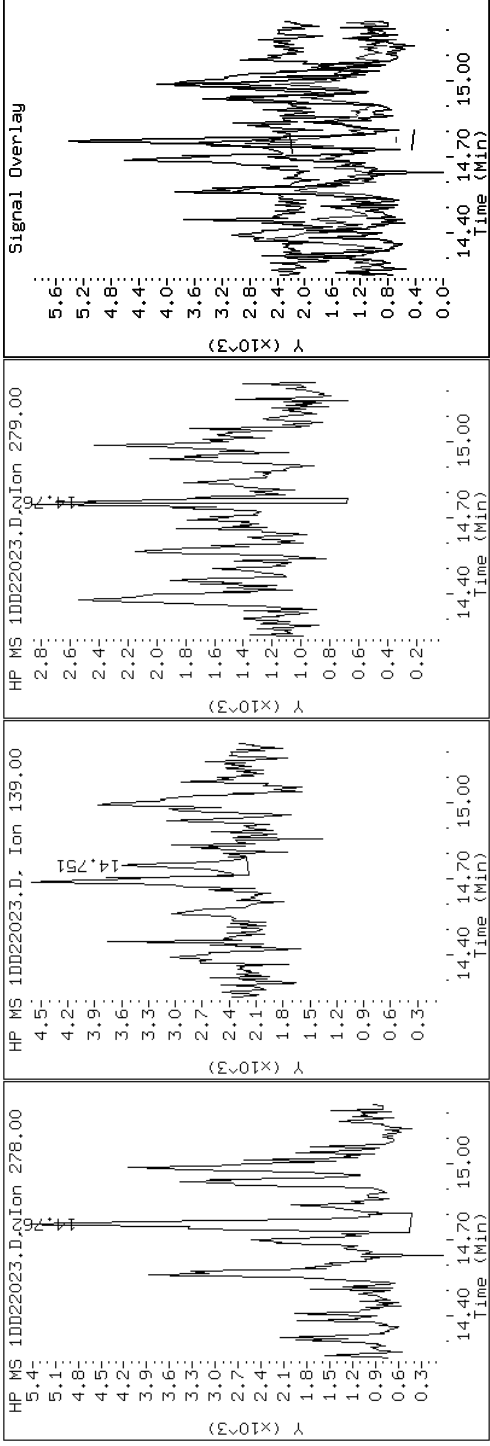
Client ID: CV0695A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-27-A

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD22023.D

Date: 22-APR-2013 18:16

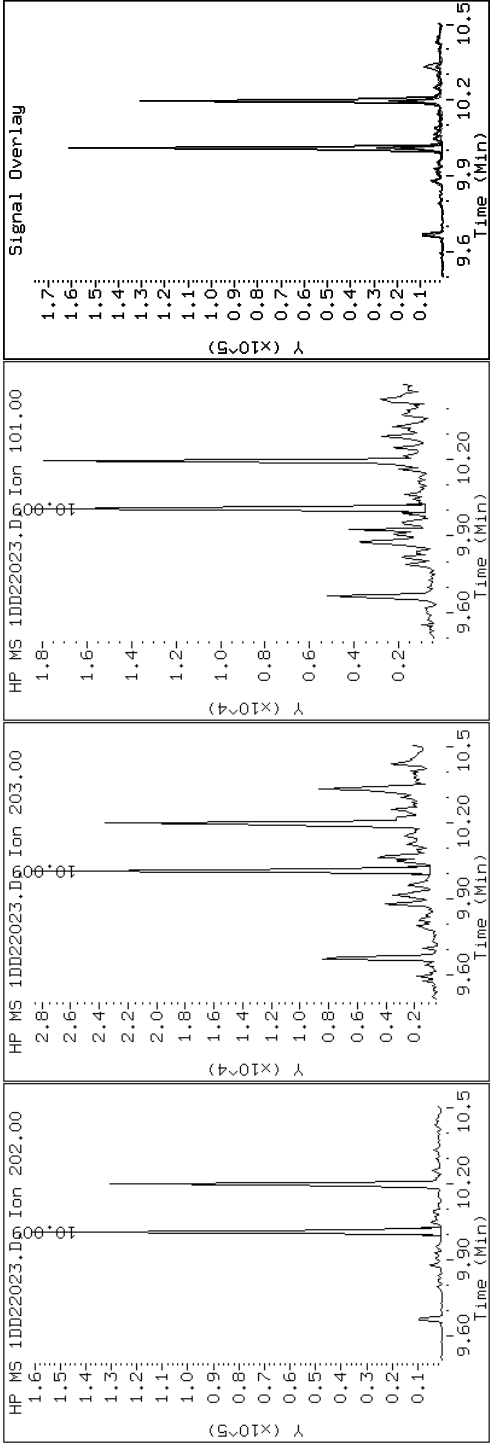
Client ID: CV0695A-CS

Instrument: BSMMSD.i

Sample Info: 680-89328-A-27-A

Operator: SCC

14 Fluoranthene



Data File: 1DD22023.D

Date: 22-APR-2013 18:16

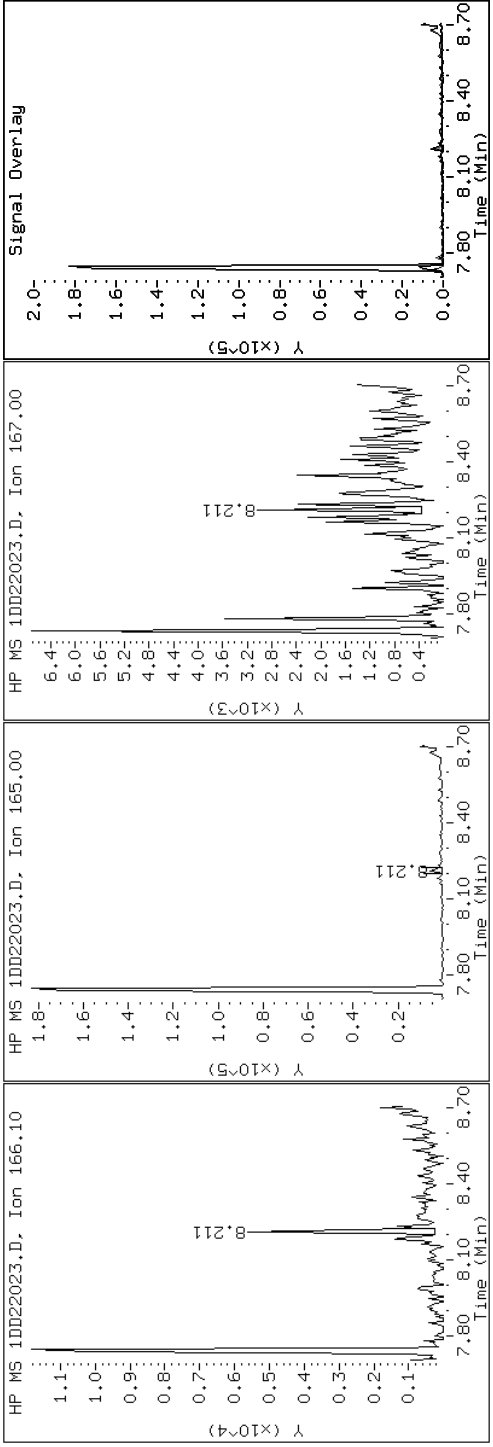
Client ID: CV0695A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-27-A

Operator: SCC

8 Fluorene



Data File: 1DD22023.D

Date: 22-APR-2013 18:16

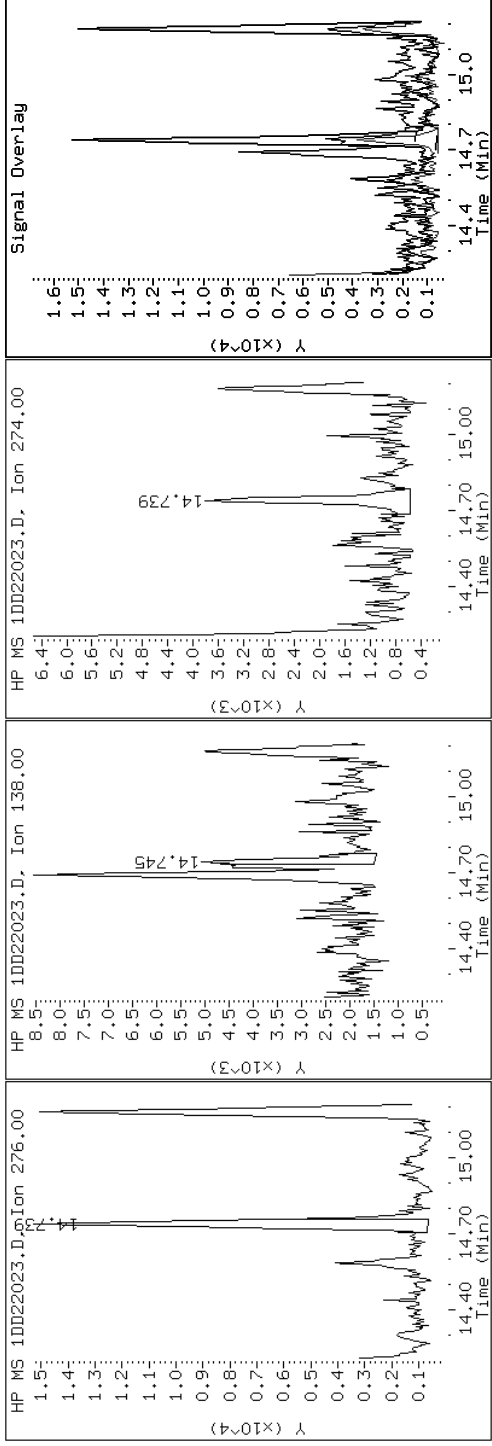
Client ID: CV0695A-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-27-A

Operator: SCC

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



Data File: 1DD22023.D

Date: 22-APR-2013 18:16

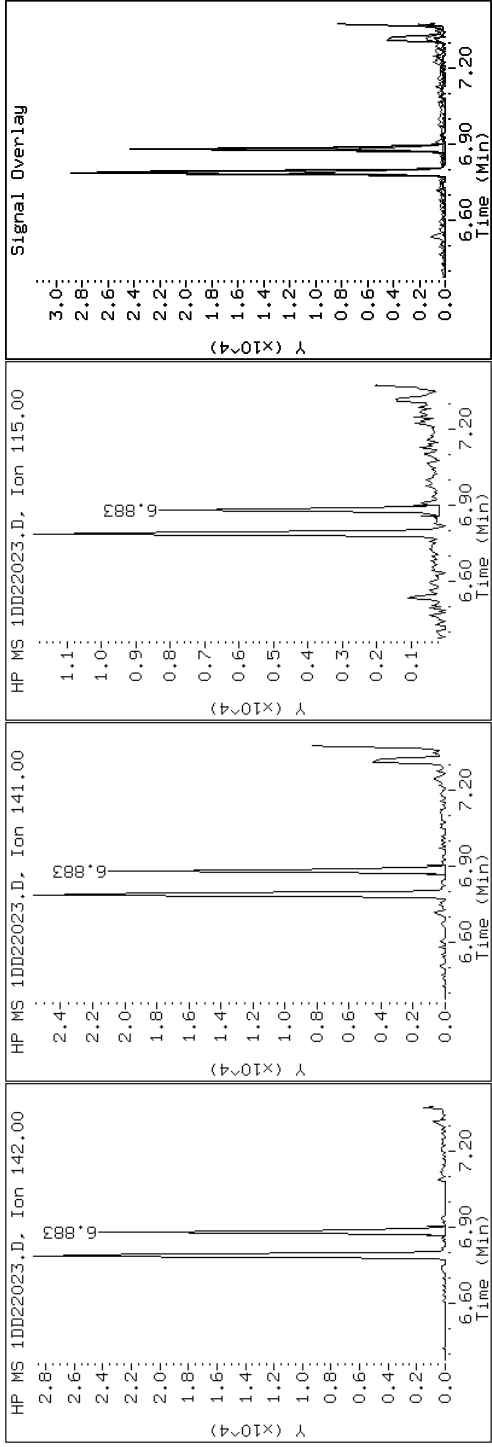
Client ID: CV0695A-CS

Instrument: BSMMSD.i

Sample Info: 680-89328-A-27-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD22023.D

Date: 22-APR-2013 18:16

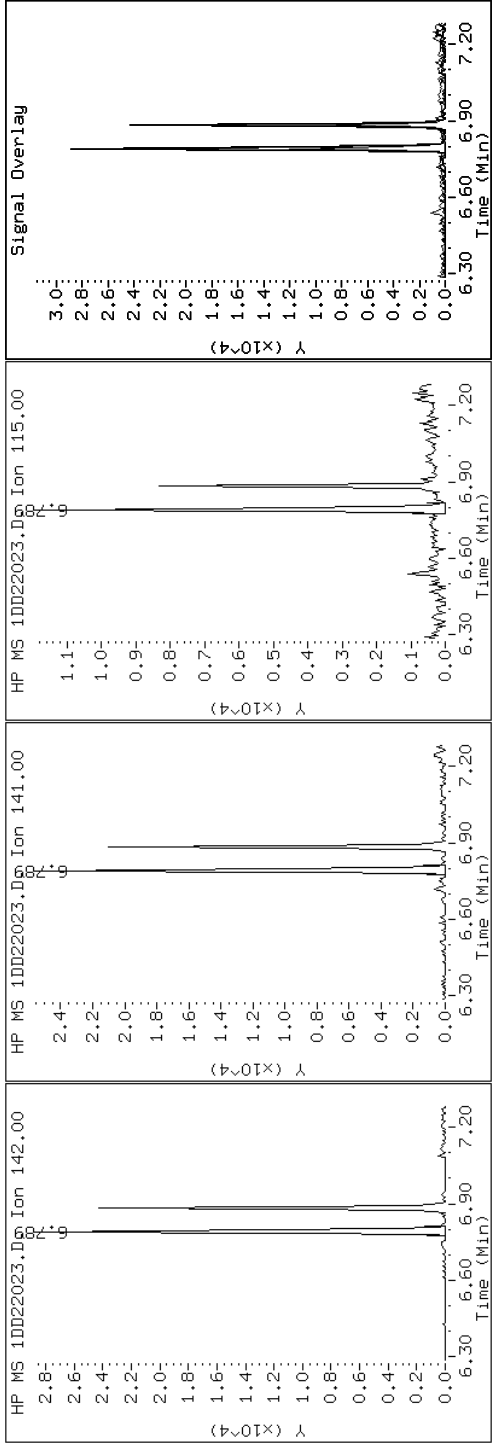
Client ID: CV0695A-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-27-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD22023.D

Date: 22-APR-2013 18:16

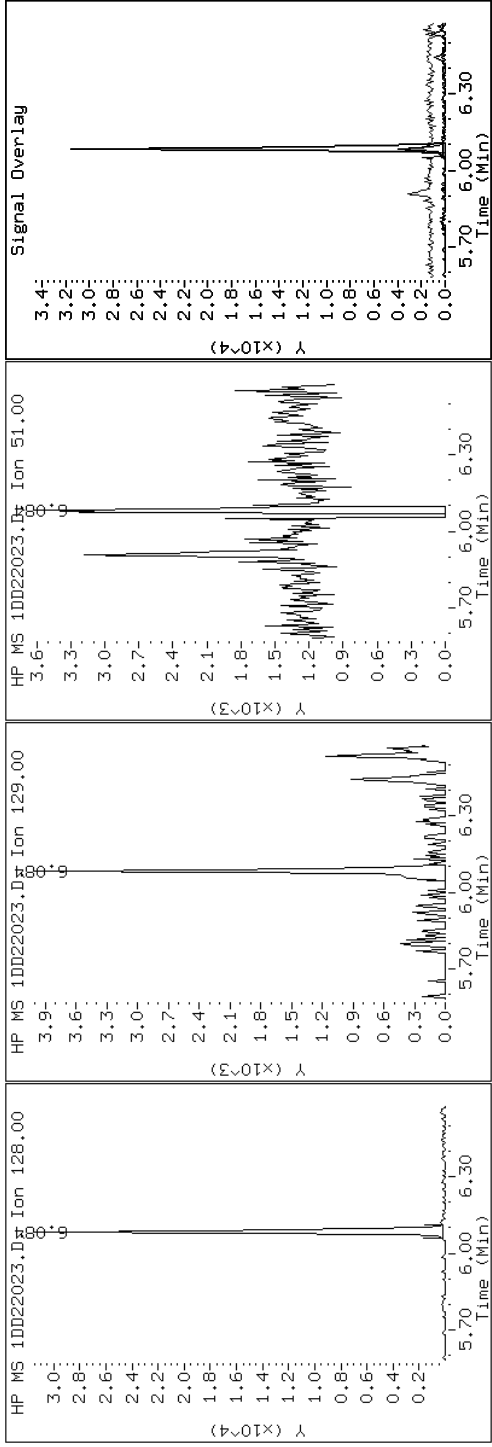
Client ID: CV0695A-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-27-A

Operator: SCC

2 Naphthalene



Data File: 1DD22023.D

Date: 22-APR-2013 18:16

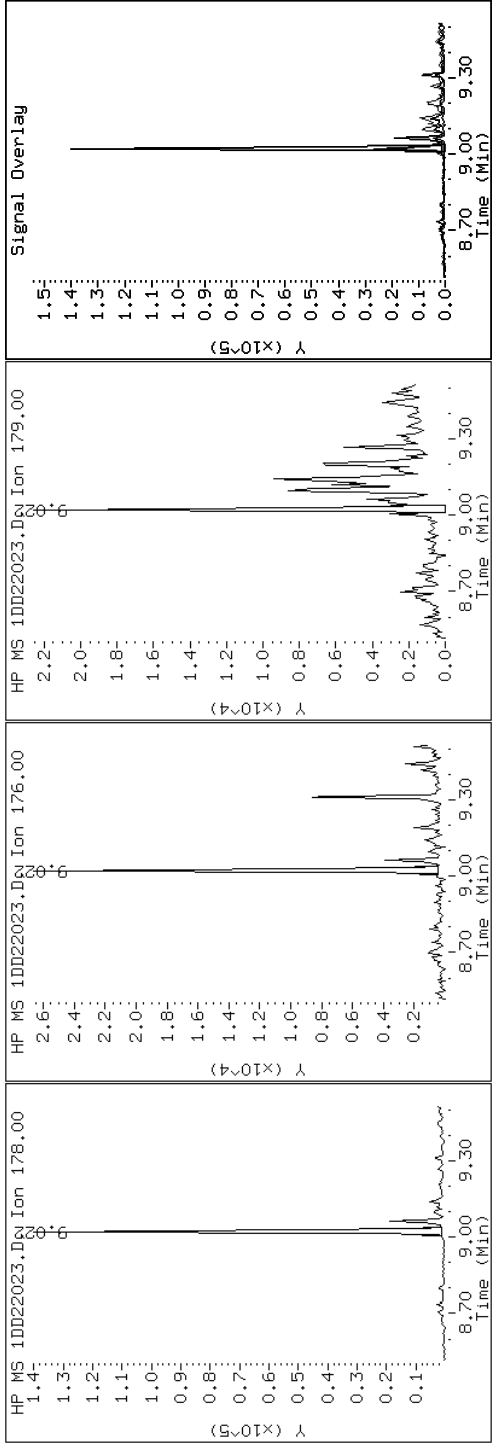
Client ID: CV0695A-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-27-A

Operator: SCC

10 Phenanthrene



Data File: 1DD22023.D

Date: 22-APR-2013 18:16

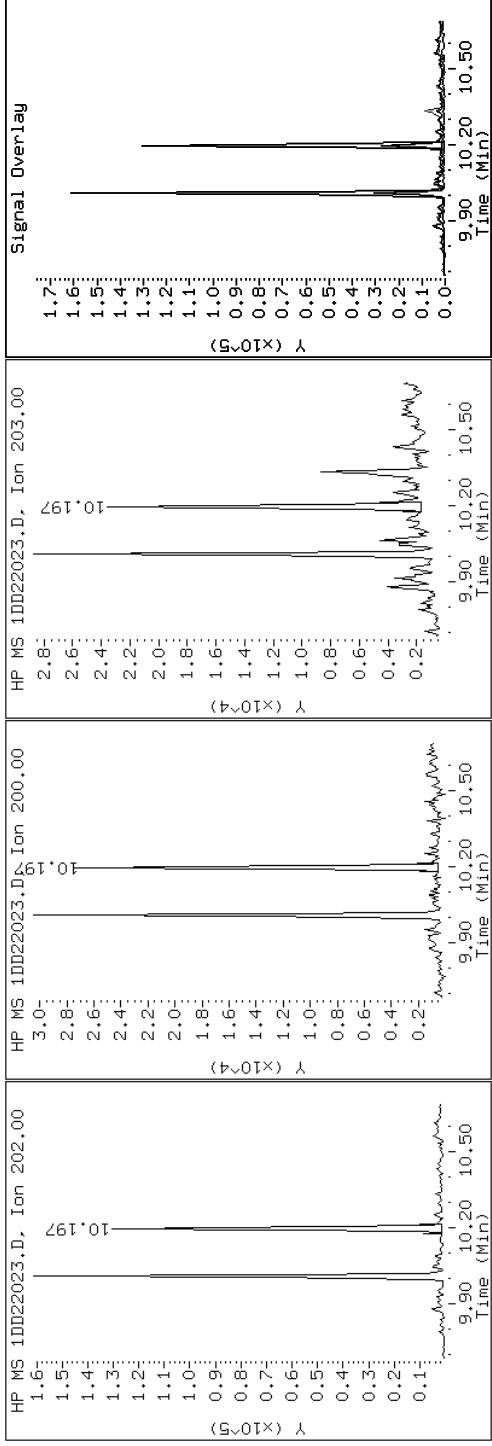
Client ID: CV0695A-CS

Instrument: BSMMSD.i

Sample Info: 680-89328-A-27-A

Operator: SCC

15 Pyrene

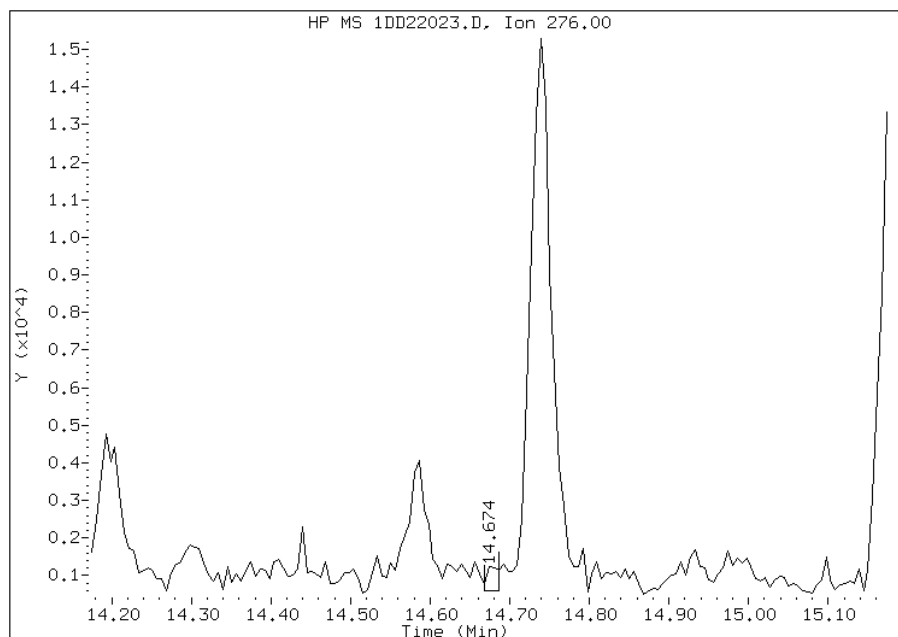


Manual Integration Report

Data File: 1DD22023.D
Inj. Date and Time: 22-APR-2013 18:16
Instrument ID: BSMSD.i
Client ID: CV0695A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

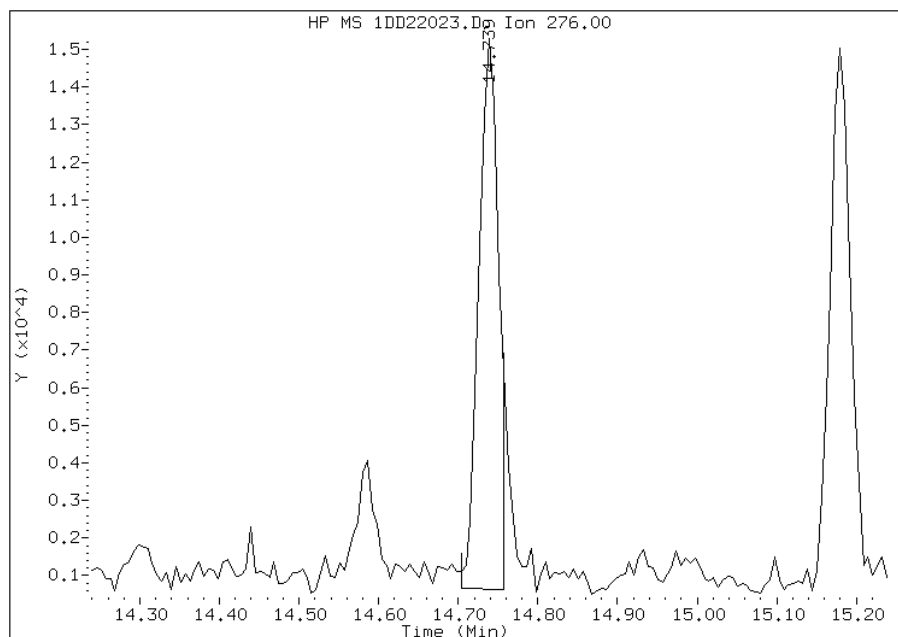
Processing Integration Results

RT: 14.67
Response: 684
Amount: 0
Conc: 1



Manual Integration Results

RT: 14.74
Response: 25193
Amount: 0
Conc: 39



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 10:28
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 Client Sample ID: CV0695A-CSD Lab Sample ID: 680-89328-28
 Matrix: Solid Lab File ID: 1DD22024.D
 Analysis Method: 8270C LL Date Collected: 04/12/2013 08:40
 Extract. Method: 3546 Date Extracted: 04/18/2013 15:43
 Sample wt/vol: 15.00(g) Date Analyzed: 04/22/2013 18:39
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 21.0 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136733 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	7.0	J	51	6.3
120-12-7	Anthracene	11		11	5.3
56-55-3	Benzo[a]anthracene	46		10	4.9
50-32-8	Benzo[a]pyrene	46		13	6.6
205-99-2	Benzo[b]fluoranthene	98		15	7.7
191-24-2	Benzo[g,h,i]perylene	29		25	5.6
207-08-9	Benzo[k]fluoranthene	31		10	4.6
218-01-9	Chrysene	89		11	5.7
53-70-3	Dibenz(a,h)anthracene	12	J	25	5.2
206-44-0	Fluoranthene	79		25	5.1
86-73-7	Fluorene	10	J	25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	20	J	25	9.0
90-12-0	1-Methylnaphthalene	50	J	51	5.6
91-57-6	2-Methylnaphthalene	65		51	9.0
91-20-3	Naphthalene	52		51	5.6
85-01-8	Phenanthrene	89		10	4.9
129-00-0	Pyrene	50		25	4.7

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22024.D
 Lab Smp Id: 680-89328-A-28-A Client Smp ID: CV0695A-CSD
 Inj Date : 22-APR-2013 18:39
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89328-A-28-A
 Misc Info : 680-89328-A-28-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
 Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 24
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	21.041	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL			
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)
* 1 Naphthalene-d8	136	6.062	6.054	(1.000)	1952678	40.0000	
* 6 Acenaphthene-d10	164	7.742	7.734	(1.000)	1143232	40.0000	
* 9 Phenanthrene-d10	188	9.005	8.998	(1.000)	1887701	40.0000	
\$ 13 o-Terphenyl	230	9.311	9.309	(1.034)	172562	6.06701	510
* 17 Chrysene-d12	240	11.320	11.307	(1.000)	2309460	40.0000	
* 22 Perylene-d12	264	13.154	13.122	(1.000)	1931398	40.0000	
2 Naphthalene	128	6.085	6.077	(1.004)	29928	0.61663	52
3 2-Methylnaphthalene	142	6.790	6.783	(1.120)	24207	0.77263	65
4 1-Methylnaphthalene	142	6.884	6.877	(1.136)	17604	0.59499	50
5 Acenaphthylene	152	7.613	7.611	(0.983)	4022	0.08312	7.0
8 Fluorene	166	8.212	8.204	(1.061)	4260	0.12044	10
10 Phenanthrene	178	9.023	9.015	(1.002)	54929	1.05641	89
11 Anthracene	178	9.064	9.056	(1.007)	6606	0.12800	11
12 Carbazole	167	9.205	9.197	(1.022)	5255	0.11544	9.7

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.010	10.002	(1.112)	49935	0.93325	79
15 Pyrene	202	10.198	10.184	(0.901)	40965	0.59067	50
16 Benzo(a)anthracene	228	11.309	11.289	(0.999)	36734	0.55015	46
18 Chrysene	228	11.344	11.330	(1.002)	66057	1.05510	89
19 Benzo(b)fluoranthene	252	12.607	12.582	(0.958)	55721	1.15492	98
20 Benzo(k)fluoranthene	252	12.631	12.623	(0.960)	18490	0.36377	31(H)
21 Benzo(a)pyrene	252	13.054	13.034	(0.992)	26611	0.54894	46
23 Indeno(1,2,3-cd)pyrene	276	14.740	14.709	(1.121)	12529	0.24238	20(M)
24 Dibenzo(a,h)anthracene	278	14.752	14.732	(1.121)	6919	0.14214	12
25 Benzo(g,h,i)perylene	276	15.181	15.143	(1.154)	16996	0.34148	29

QC Flag Legend

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

Data File: 1DD22024.D

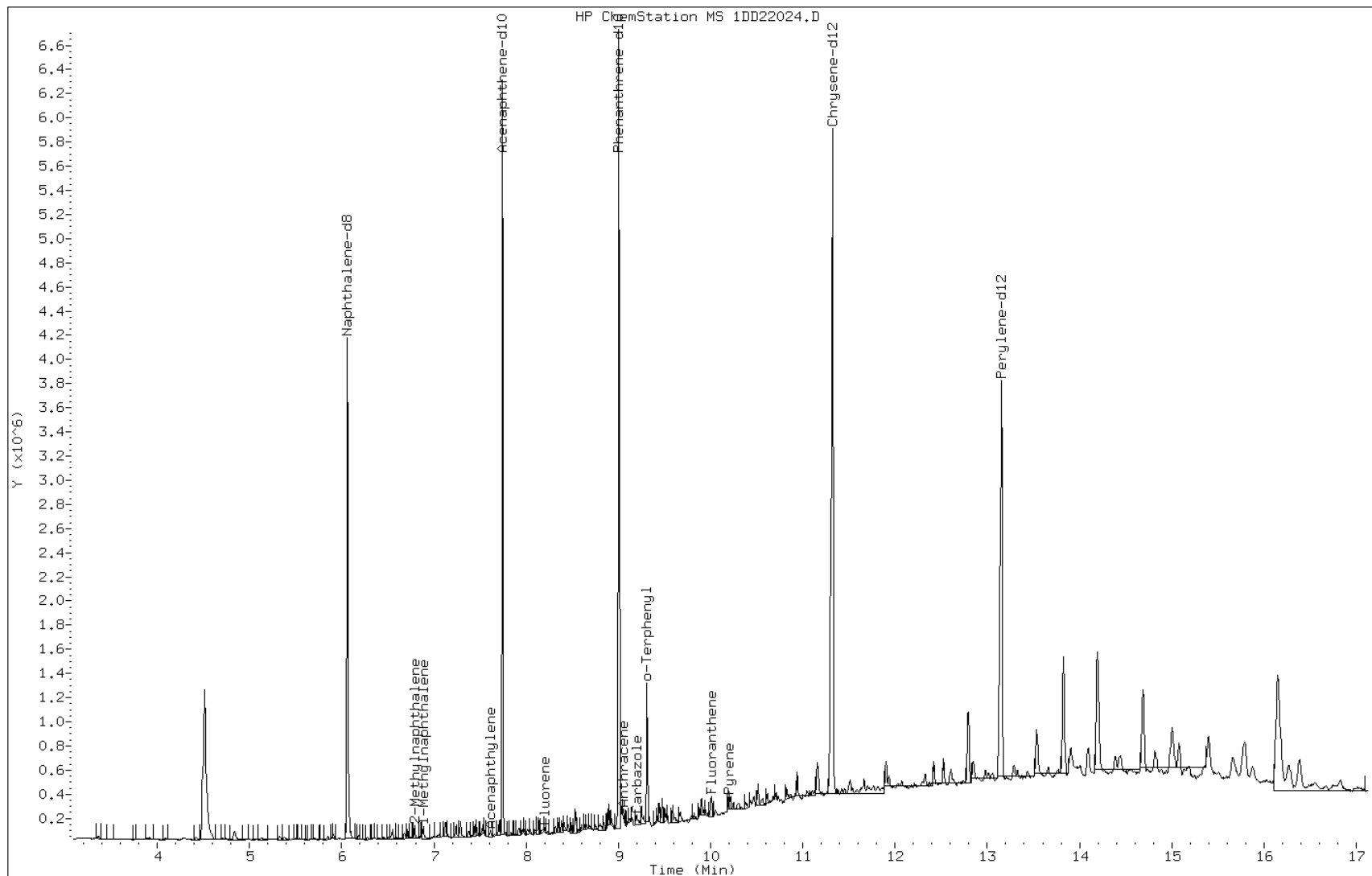
Date: 22-APR-2013 18:39

Client ID: CV0695A-CSD

Instrument: BSMSD.i

Sample Info: 680-89328-A-28-A

Operator: SCC



Data File: 1DD22024.D

Date: 22-APR-2013 18:39

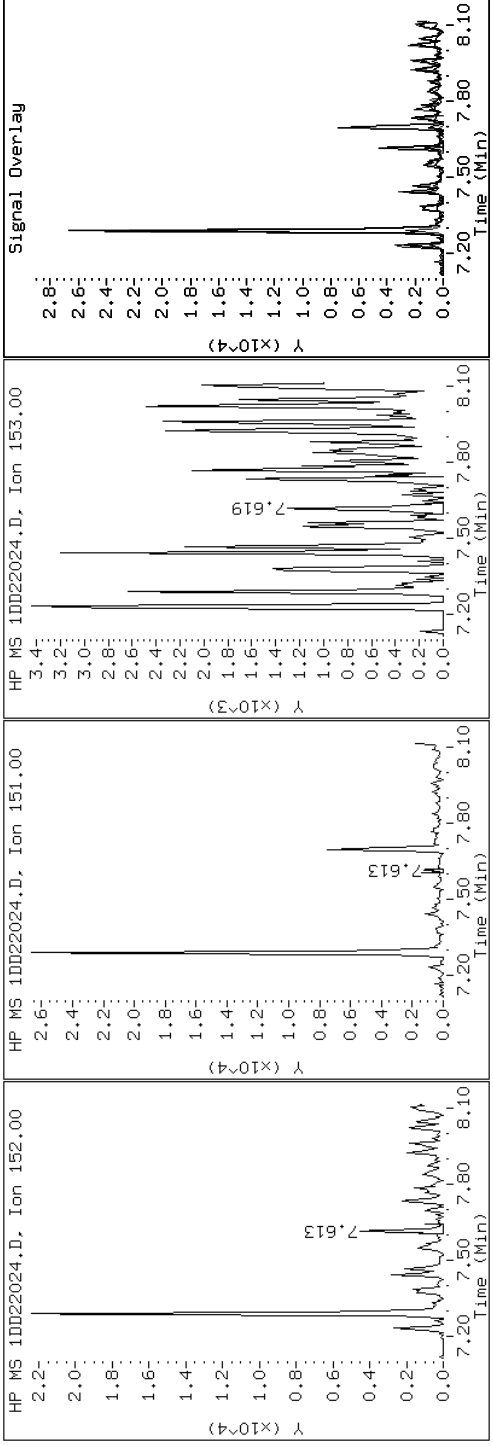
Client ID: CV0695A-CSD

Instrument: BSMDS.i

Sample Info: 680-89328-A-28-A

Operator: SCC

5 Acenaphthylene



Data File: 1DD22024.D

Date: 22-APR-2013 18:39

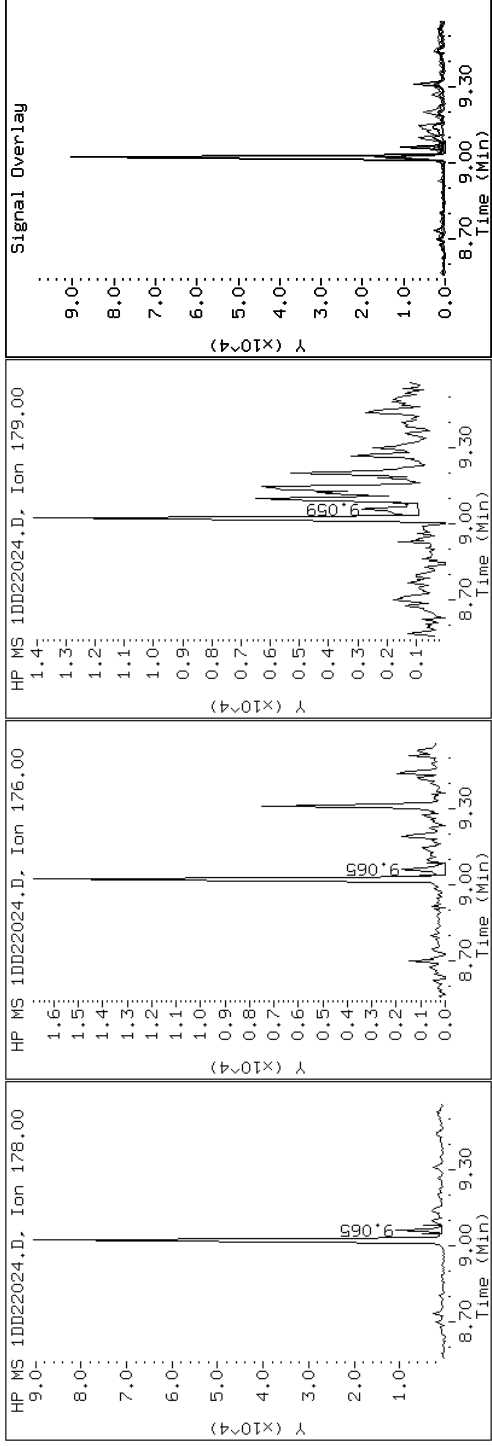
Client ID: CV0695A-CSD

Instrument: BSMSD.i

Sample Info: 680-89328-A-28-A

Operator: SCC

11 Anthracene



Data File: 1DD22024.D

Date: 22-APR-2013 18:39

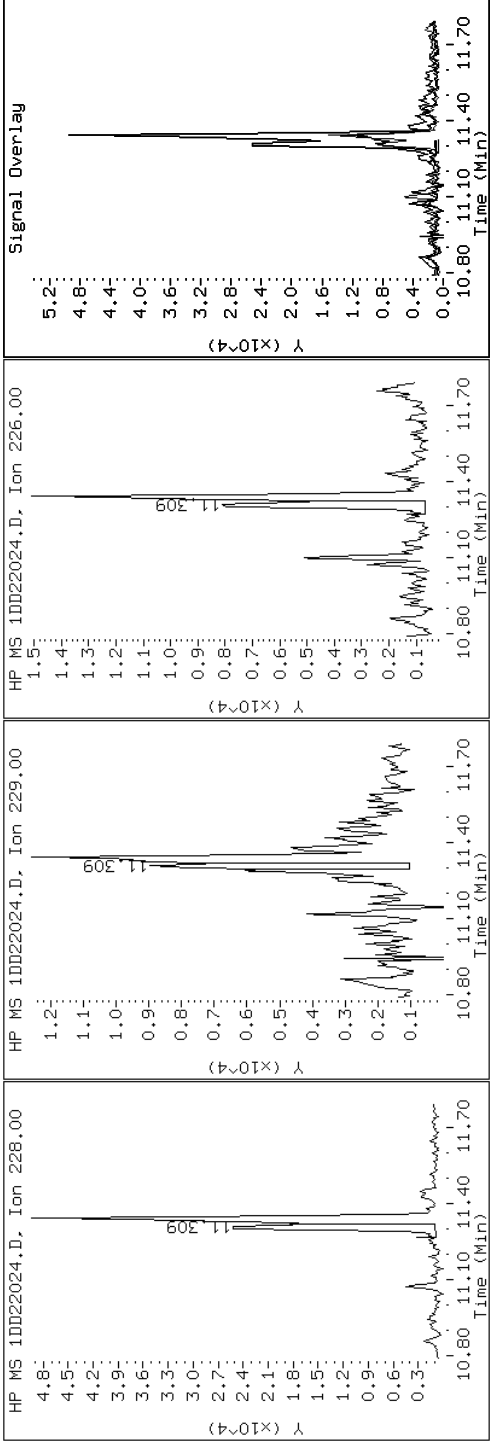
Client ID: CV0695A-CSD

Instrument: BSMSD.i

Sample Info: 680-89328-A-28-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD22024.D

Date: 22-APR-2013 18:39

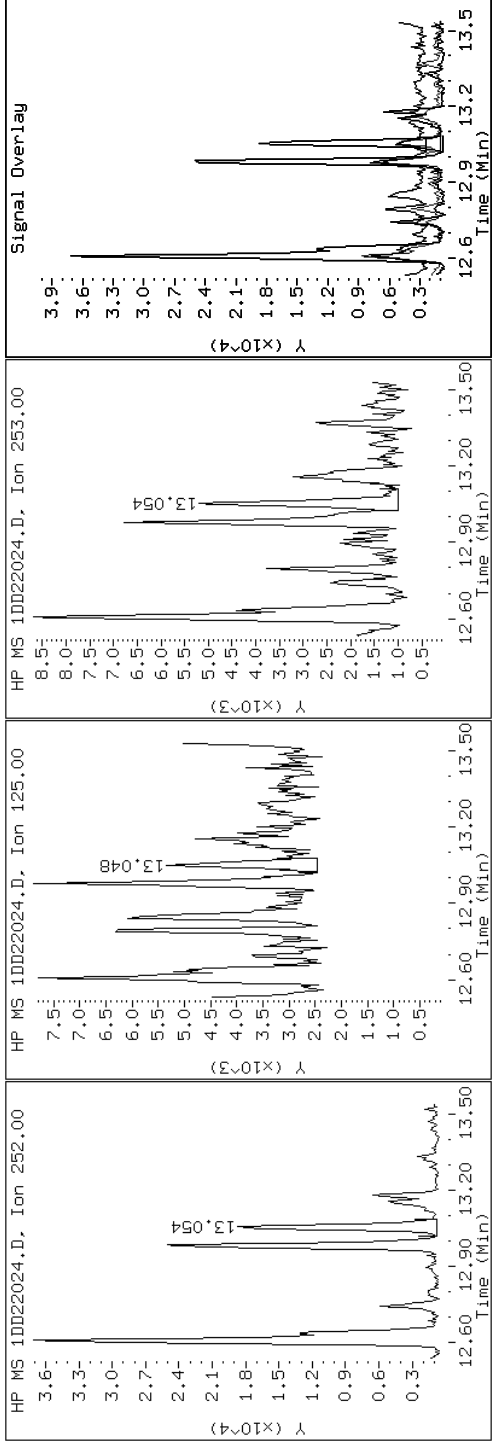
Client ID: CV0695A-CSD

Instrument: BSMDS.i

Sample Info: 680-89328-A-28-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD22024.D

Date: 22-APR-2013 18:39

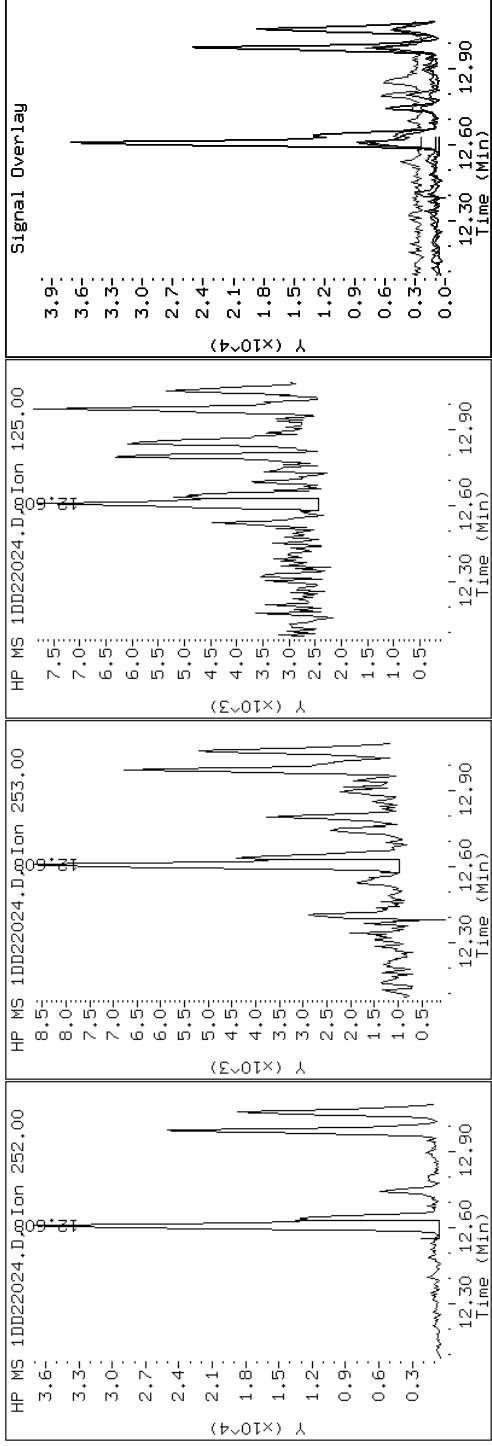
Client ID: CV0695A-CSD

Instrument: BSMDS.i

Sample Info: 680-89328-A-28-A

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD22024.D

Date: 22-APR-2013 18:39

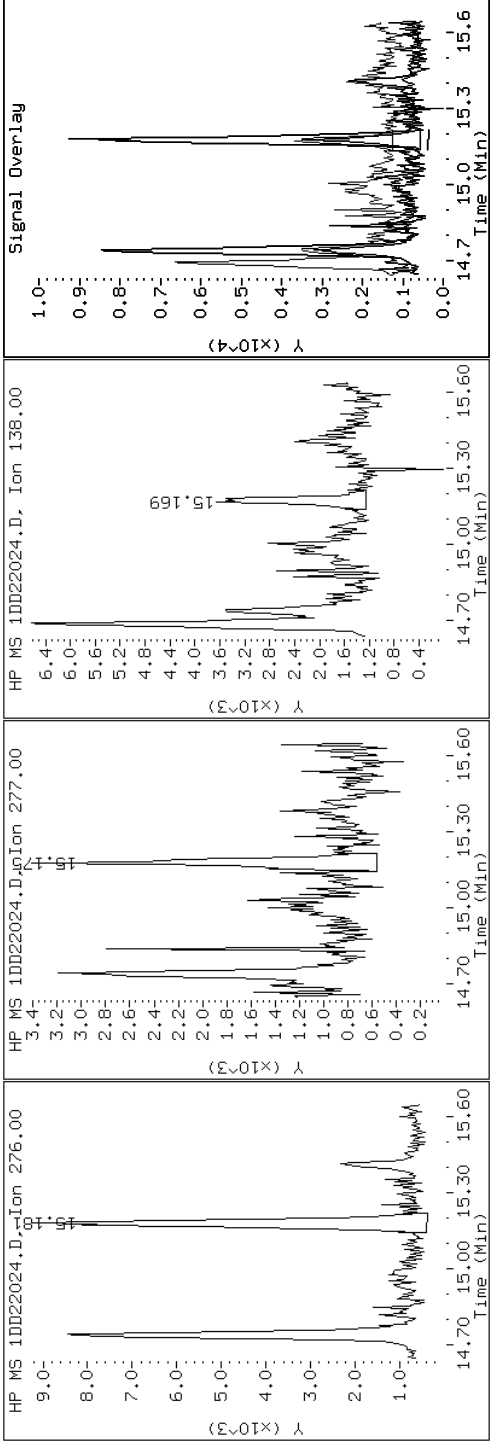
Client ID: CV0695A-CSD

Instrument: BSMSD.i

Sample Info: 680-89328-A-28-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD22024.D

Date: 22-APR-2013 18:39

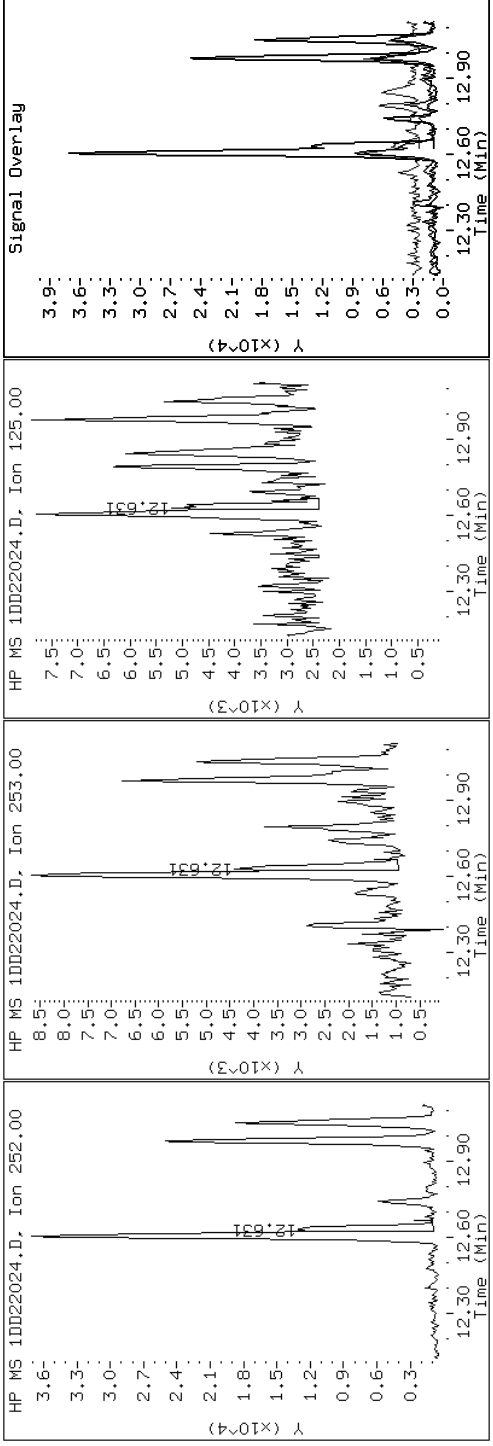
Client ID: CV0695A-CSD

Instrument: BSMMSD.i

Sample Info: 680-89328-A-28-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD22024.D

Date: 22-APR-2013 18:39

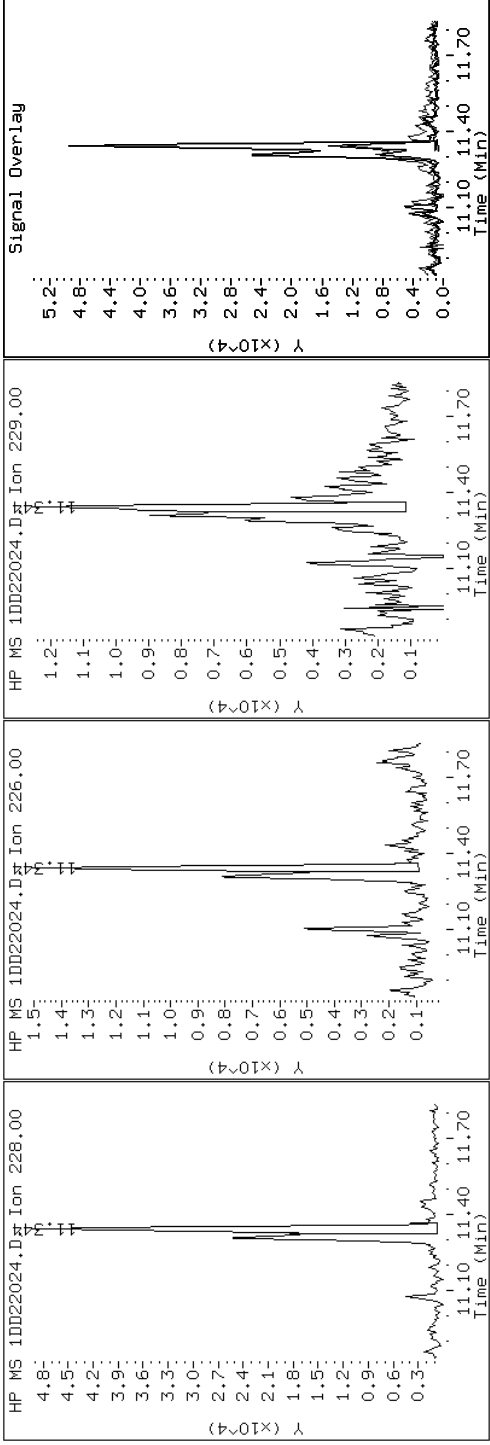
Client ID: CV0695A-CSD

Instrument: BSMDS.i

Sample Info: 680-89328-A-28-A

Operator: SCC

18 Chrysene



Data File: 1DD22024.D

Date: 22-APR-2013 18:39

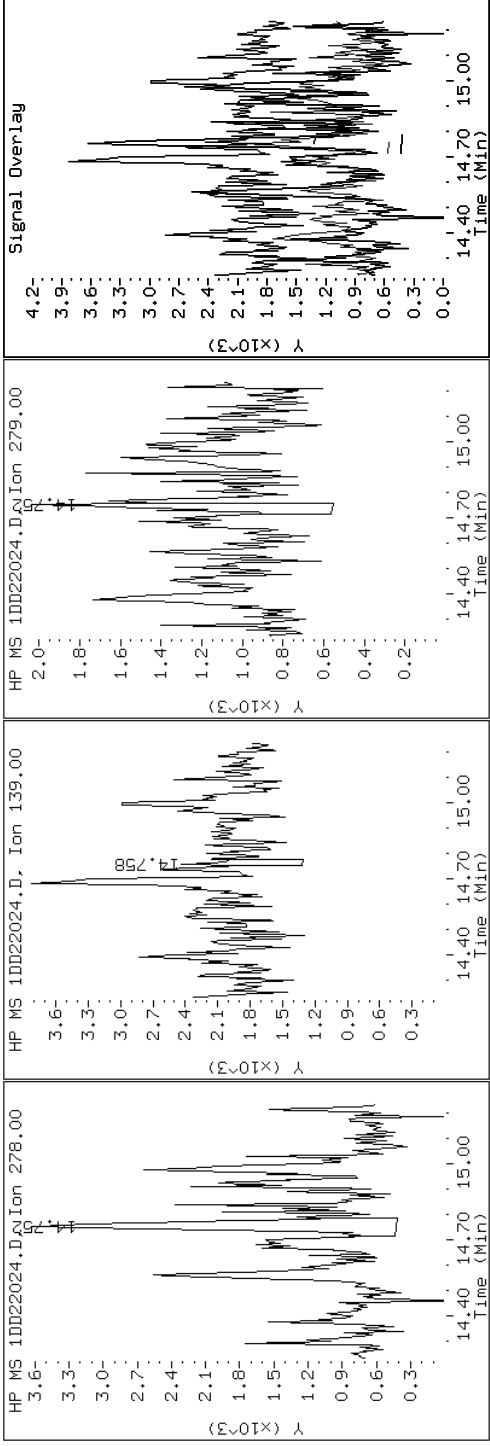
Client ID: CV0695A-CSD

Instrument: BSMSD.i

Sample Info: 680-89328-A-28-A

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD22024.D

Date: 22-APR-2013 18:39

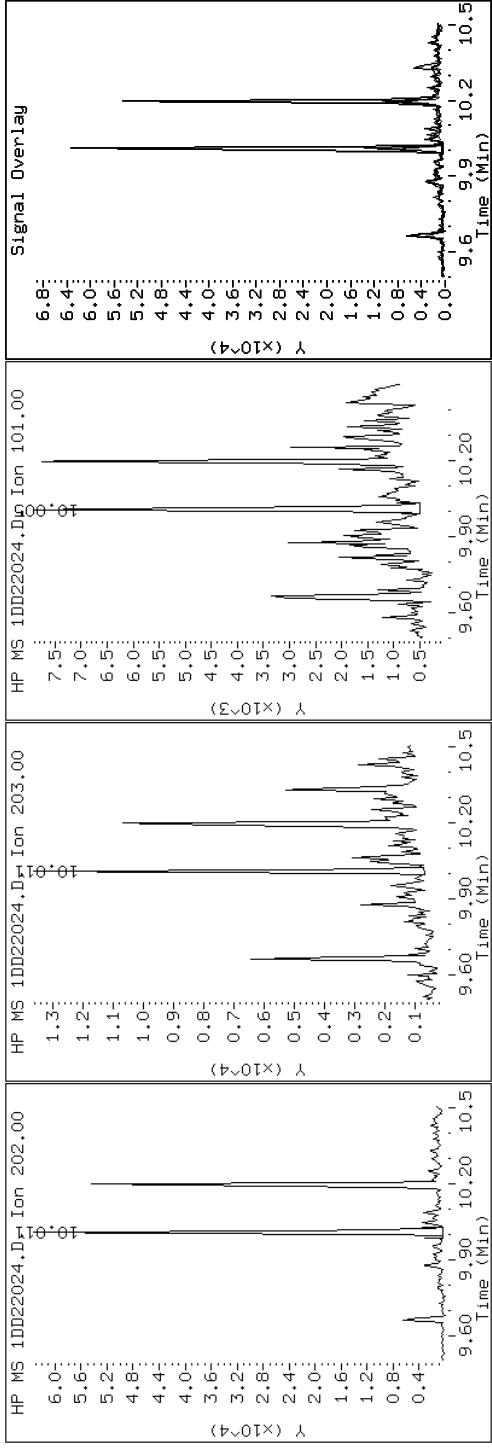
Client ID: CV0695A-CSD

Instrument: BSMDS.i

Sample Info: 680-89328-A-28-A

Operator: SCC

14 Fluoranthene



Data File: 1DD22024.D

Date: 22-APR-2013 18:39

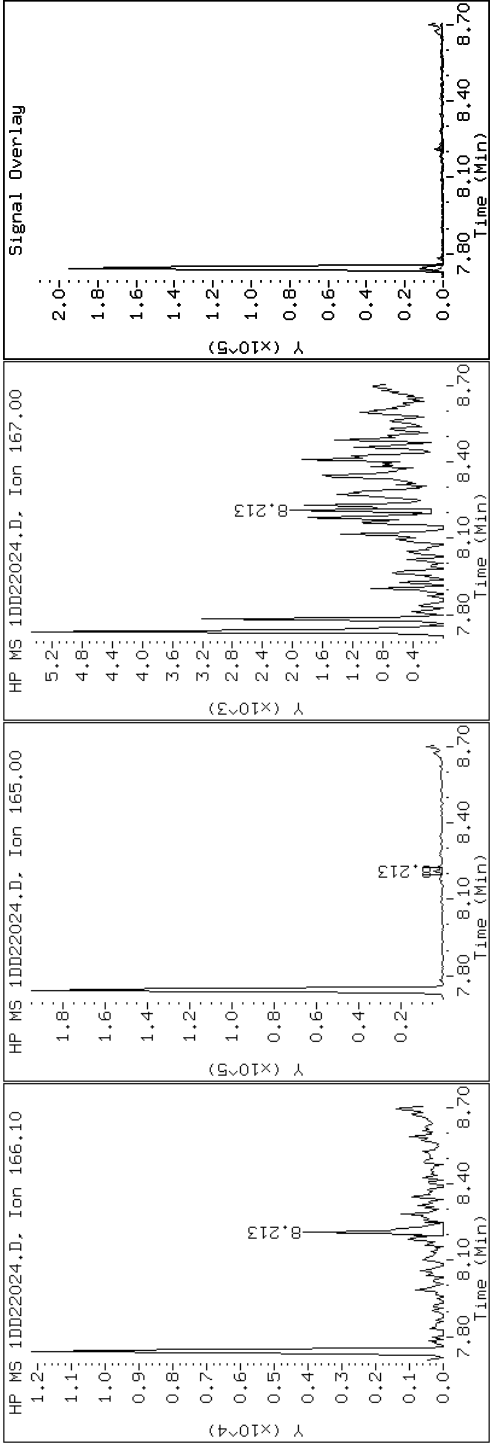
Client ID: CV0695A-CSD

Instrument: BSMDS.i

Sample Info: 680-89328-A-28-A

Operator: SCC

8 Fluorene



Data File: 1DD22024.D

Date: 22-APR-2013 18:39

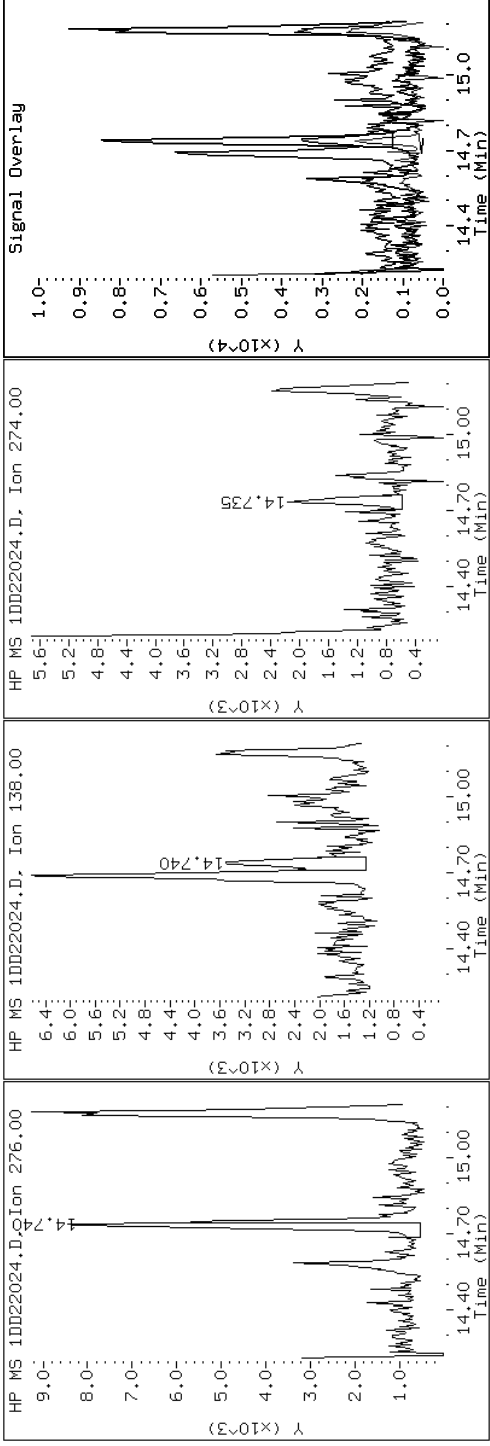
Client ID: CV0695A-CSD

Instrument: BSMMSD.i

Sample Info: 680-89328-A-28-A

Operator: SCC

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



Data File: 1DD22024.D

Date: 22-APR-2013 18:39

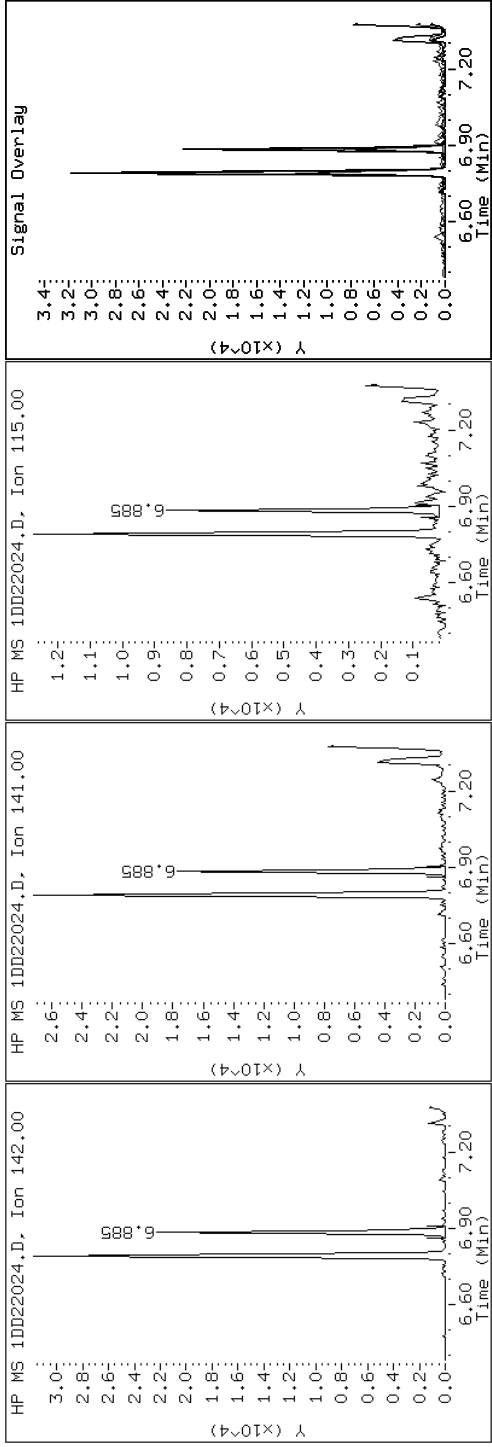
Client ID: CV0695A-CSD

Instrument: BSMMSD.i

Sample Info: 680-89328-A-28-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD22024.D

Date: 22-APR-2013 18:39

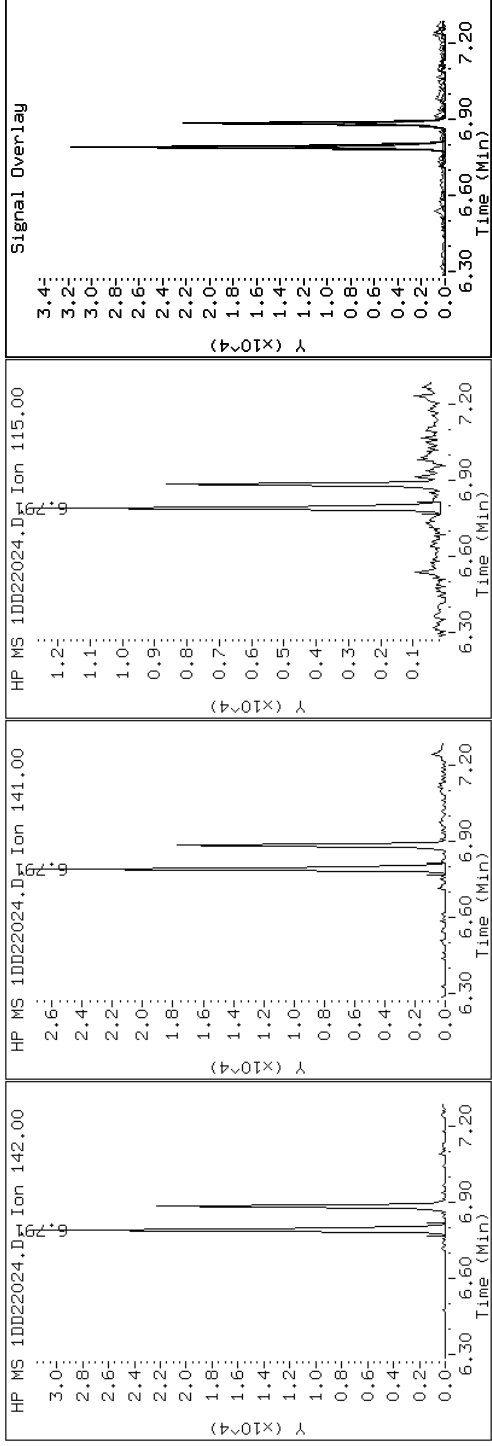
Client ID: CV0695A-CSD

Instrument: BSMDS.i

Sample Info: 680-89328-A-28-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD22024.D

Date: 22-APR-2013 18:39

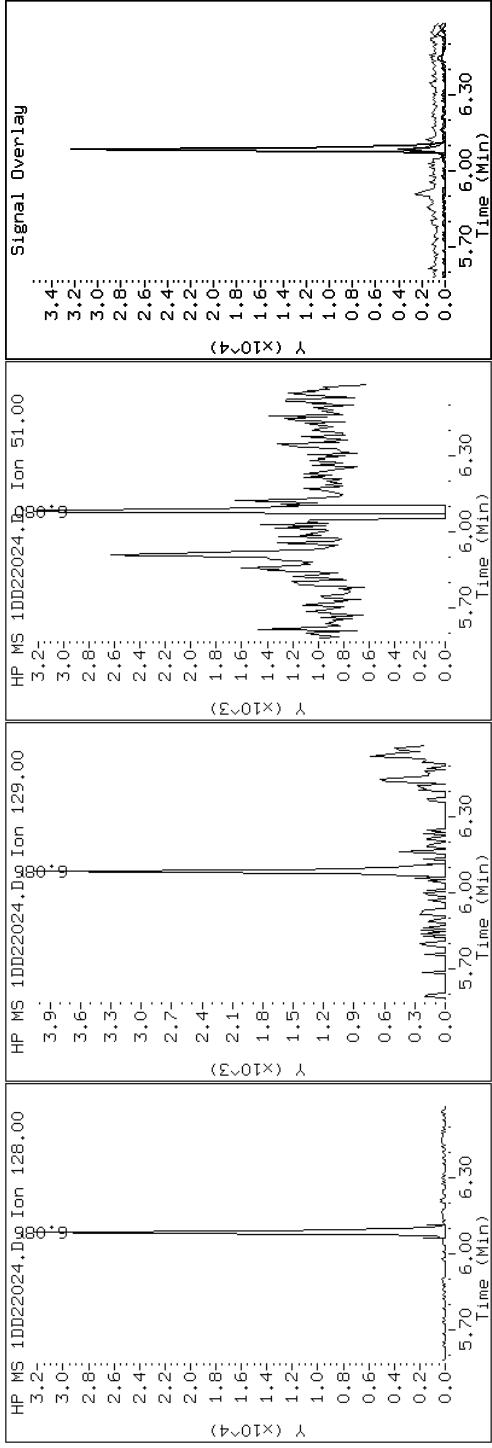
Client ID: CV0695A-CSD

Instrument: BSMSD.i

Sample Info: 680-89328-A-28-A

Operator: SCC

2 Naphthalene



Data File: 1DD22024.D

Date: 22-APR-2013 18:39

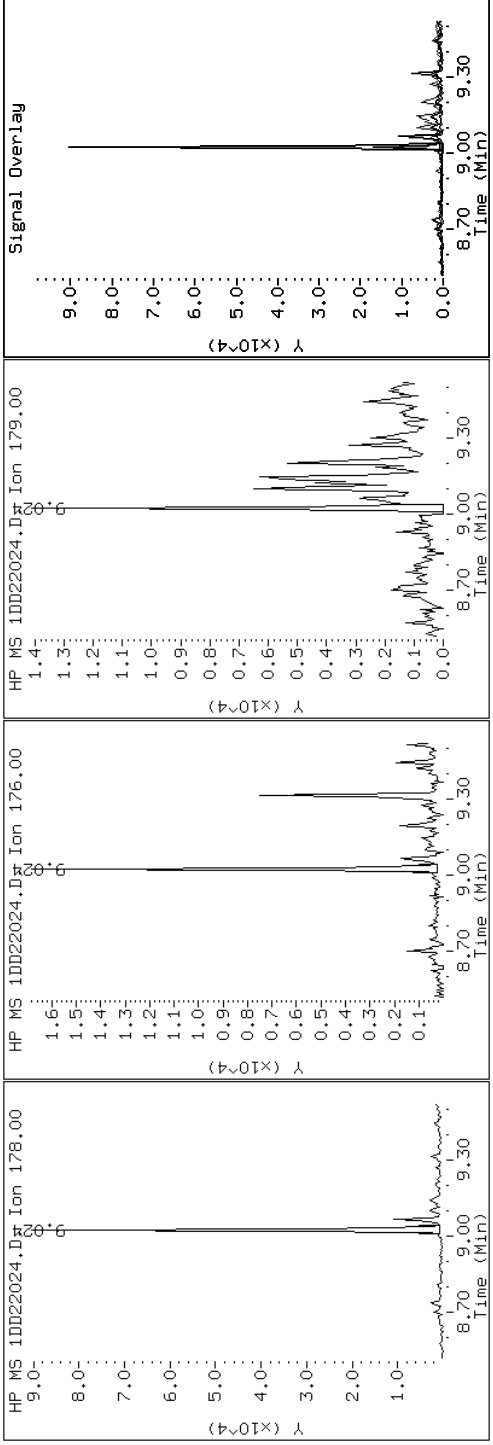
Client ID: CV0695A-CSD

Instrument: BSMSD.i

Sample Info: 680-89328-A-28-A

Operator: SCC

10 Phenanthrene



Data File: 1DD22024.D

Date: 22-APR-2013 18:39

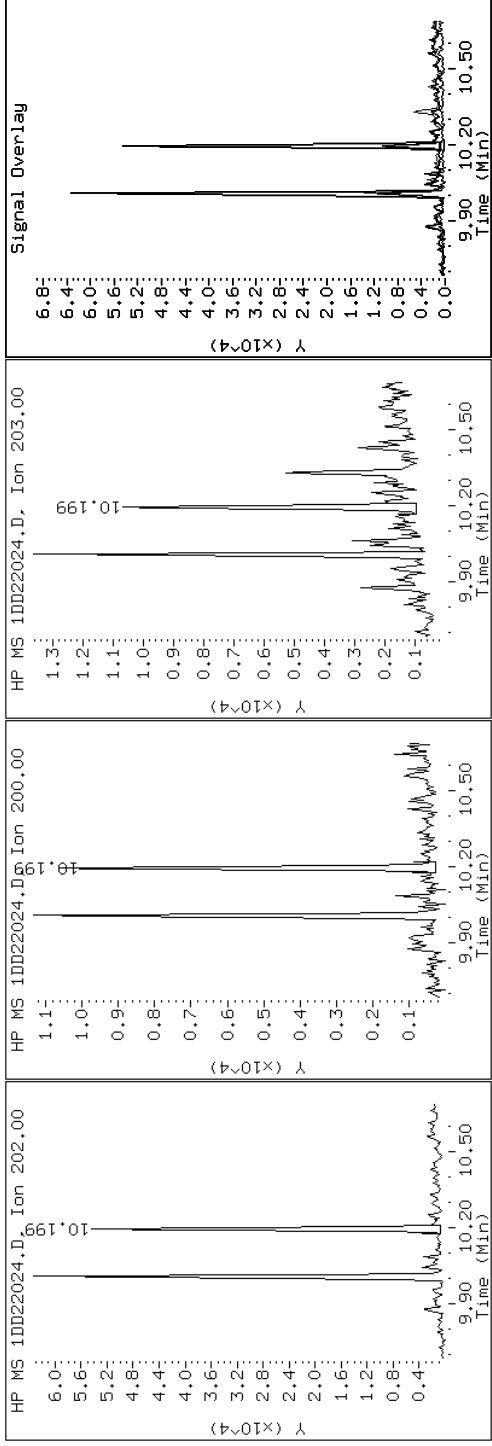
Client ID: CV0695A-CSD

Instrument: BSMDS.i

Sample Info: 680-89328-A-28-A

Operator: SCC

15 Pyrene

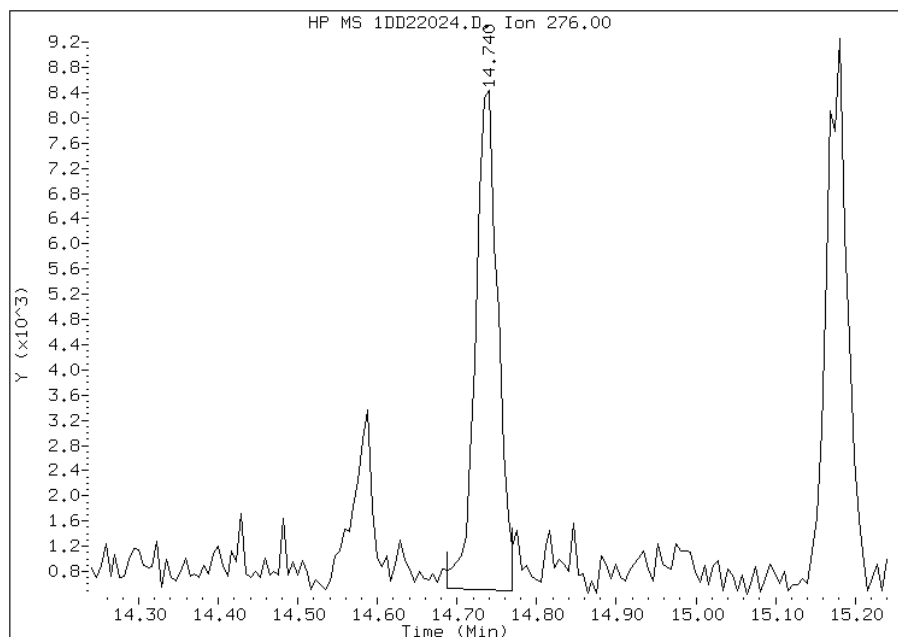


Manual Integration Report

Data File: 1DD22024.D
Inj. Date and Time: 22-APR-2013 18:39
Instrument ID: BSMSD.i
Client ID: CV0695A-CSD
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

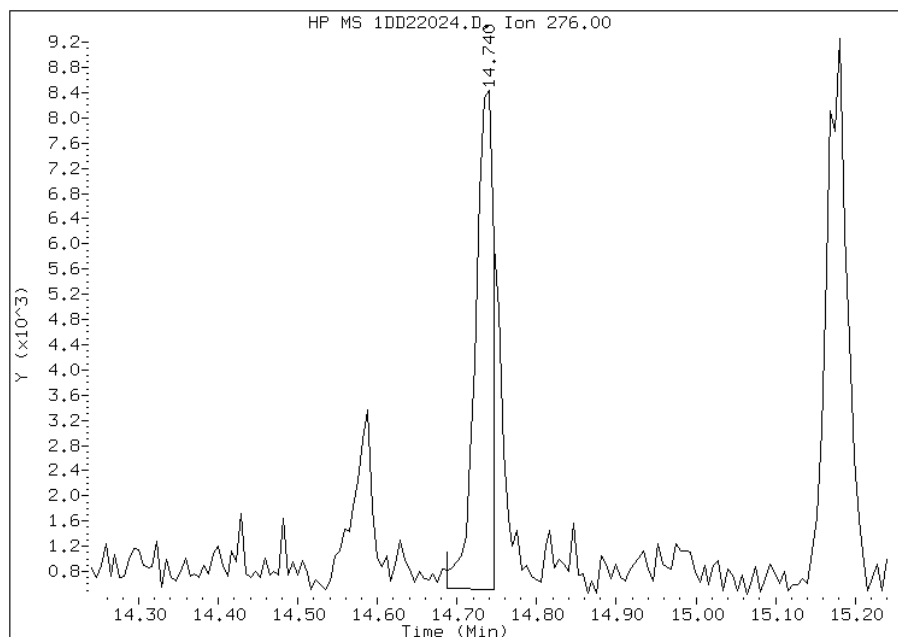
Processing Integration Results

RT: 14.74
Response: 15526
Amount: 0
Conc: 25



Manual Integration Results

RT: 14.74
Response: 12529
Amount: 0
Conc: 20



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 10:57
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 Client Sample ID: CV0695B-CS Lab Sample ID: 680-89328-29
 Matrix: Solid Lab File ID: 1DD22025.D
 Analysis Method: 8270C LL Date Collected: 04/12/2013 08:50
 Extract. Method: 3546 Date Extracted: 04/18/2013 15:43
 Sample wt/vol: 15.47(g) Date Analyzed: 04/22/2013 19:01
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 27.9 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136733 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	9.4	J	54	6.7
120-12-7	Anthracene	23		11	5.6
56-55-3	Benzo[a]anthracene	77		11	5.2
50-32-8	Benzo[a]pyrene	69		14	7.0
205-99-2	Benzo[b]fluoranthene	150		16	8.2
191-24-2	Benzo[g,h,i]perylene	32		27	5.9
207-08-9	Benzo[k]fluoranthene	49		11	4.8
218-01-9	Chrysene	98		12	6.0
53-70-3	Dibenz(a,h)anthracene	13	J	27	5.5
206-44-0	Fluoranthene	130		27	5.4
86-73-7	Fluorene	7.8	J	27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	27		27	9.5
90-12-0	1-Methylnaphthalene	31	J	54	5.9
91-57-6	2-Methylnaphthalene	42	J	54	9.5
91-20-3	Naphthalene	57		54	5.9
85-01-8	Phenanthrene	80		11	5.2
129-00-0	Pyrene	90		27	5.0

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22025.D
 Lab Smp Id: 680-89328-A-29-A Client Smp ID: CV0695B-CS
 Inj Date : 22-APR-2013 19:01
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89328-A-29-A
 Misc Info : 680-89328-A-29-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
 Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 25
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.470	Weight Extracted
M	27.857	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL			
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)
* 1 Naphthalene-d8	136	6.066	6.054	(1.000)	1934029	40.0000	
* 6 Acenaphthene-d10	164	7.746	7.734	(1.000)	1108831	40.0000	
* 9 Phenanthrene-d10	188	9.004	8.998	(1.000)	1848584	40.0000	
\$ 13 o-Terphenyl	230	9.315	9.309	(1.035)	179210	6.43407	580
* 17 Chrysene-d12	240	11.324	11.307	(1.000)	2193886	40.0000	
* 22 Perylene-d12	264	13.152	13.122	(1.000)	1887939	40.0000	
2 Naphthalene	128	6.083	6.077	(1.003)	30599	0.63653	57
3 2-Methylnaphthalene	142	6.788	6.783	(1.119)	14605	0.47065	42
4 1-Methylnaphthalene	142	6.883	6.877	(1.135)	9990	0.34090	30
5 Acenaphthylene	152	7.617	7.611	(0.983)	4905	0.10452	9.4
8 Fluorene	166	8.210	8.204	(1.060)	2971	0.08661	7.8
10 Phenanthrene	178	9.021	9.015	(1.002)	45686	0.89724	80
11 Anthracene	178	9.062	9.056	(1.007)	13111	0.25943	23
12 Carbazole	167	9.209	9.197	(1.023)	9446	0.21190	19

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
14 Fluoranthene	202	10.008	10.002	(1.112)	77279	1.47485	130
15 Pyrene	202	10.196	10.184	(0.900)	65977	1.00144	90
16 Benzo(a)anthracene	228	11.307	11.289	(0.998)	54250	0.85528	77
18 Chrysene	228	11.342	11.330	(1.002)	64831	1.09006	98
19 Benzo(b)fluoranthene	252	12.605	12.582	(0.958)	77829	1.65028	150
20 Benzo(k)fluoranthene	252	12.635	12.623	(0.961)	27193	0.54731	49(H)
21 Benzo(a)pyrene	252	13.052	13.034	(0.992)	36745	0.77544	69
23 Indeno(1,2,3-cd)pyrene	276	14.726	14.709	(1.120)	15076	0.29837	27(M)
24 Dibenzo(a,h)anthracene	278	14.744	14.732	(1.121)	6862	0.14422	13
25 Benzo(g,h,i)perylene	276	15.167	15.143	(1.153)	17219	0.35393	32

QC Flag Legend

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

Data File: 1DD22025.D

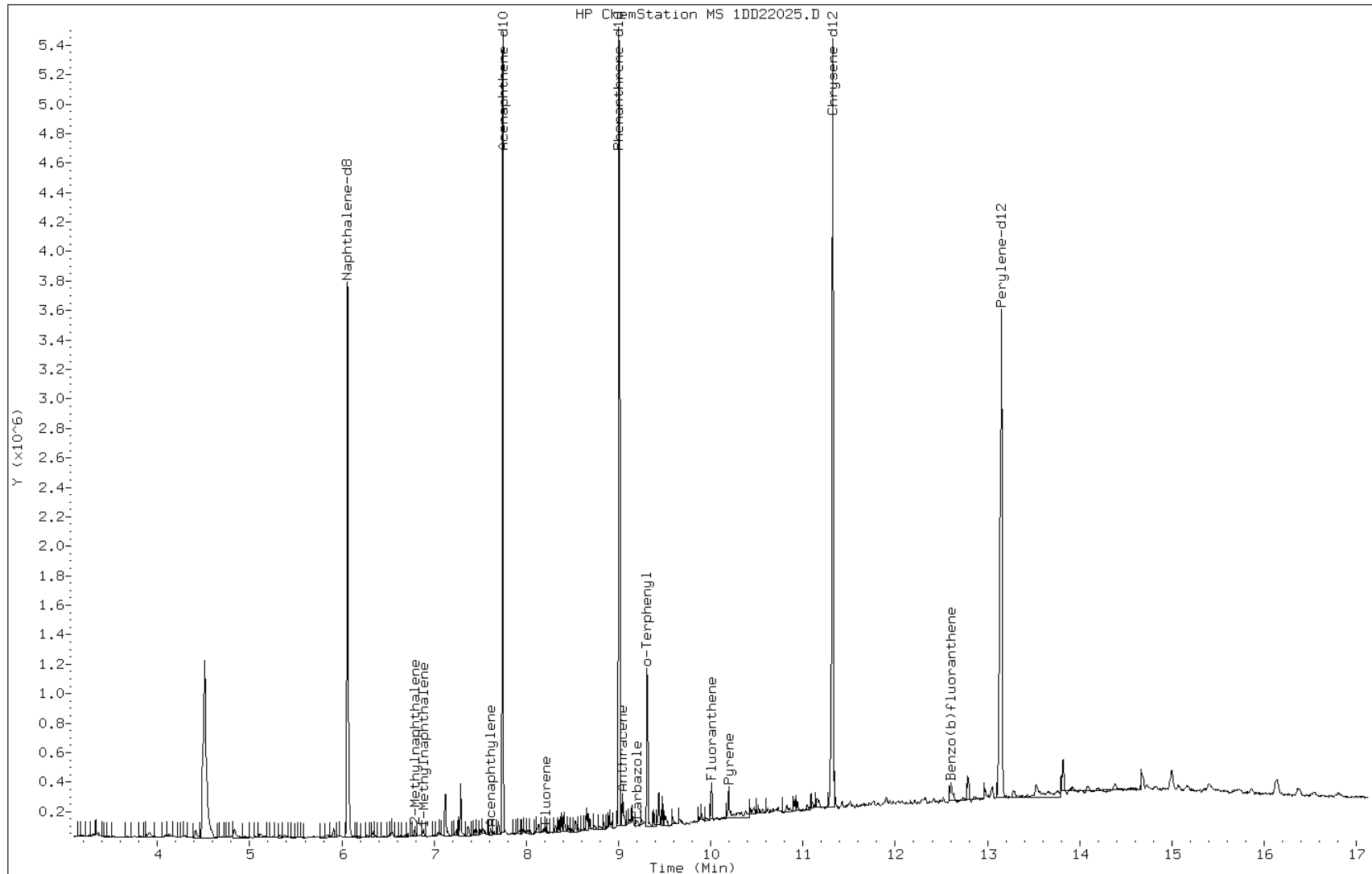
Date: 22-APR-2013 19:01

Client ID: CV0695B-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-29-A

Operator: SCC



Data File: 1DD22025.D

Date: 22-APR-2013 19:01

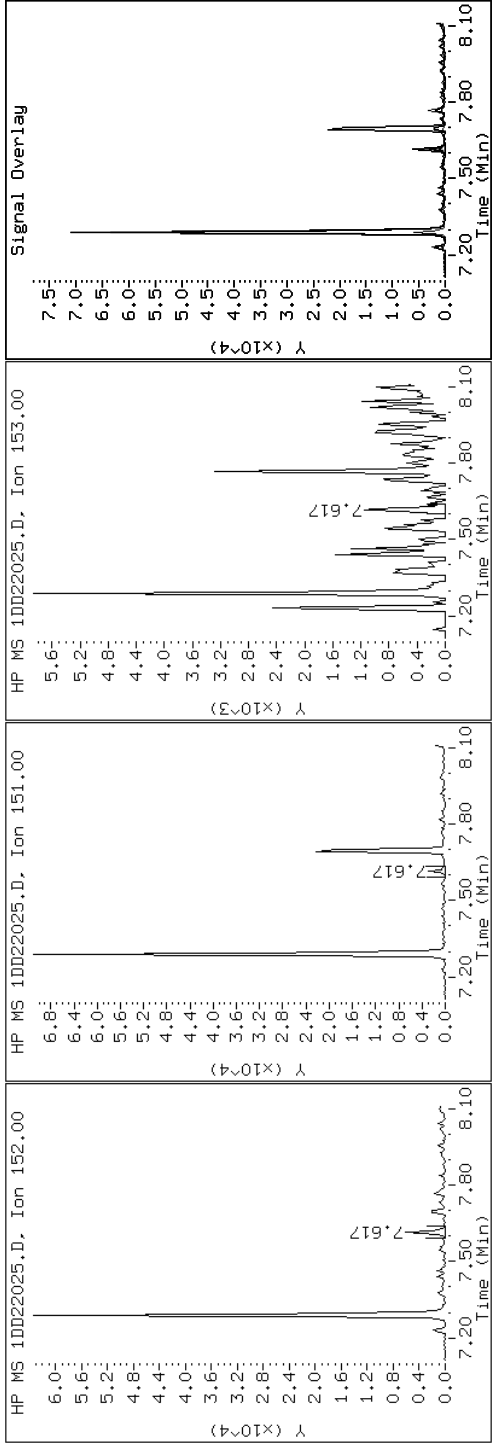
Client ID: CV0695B-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-29-A

Operator: SCC

5 Acenaphthylene



Data File: 1DD22025.D

Date: 22-APR-2013 19:01

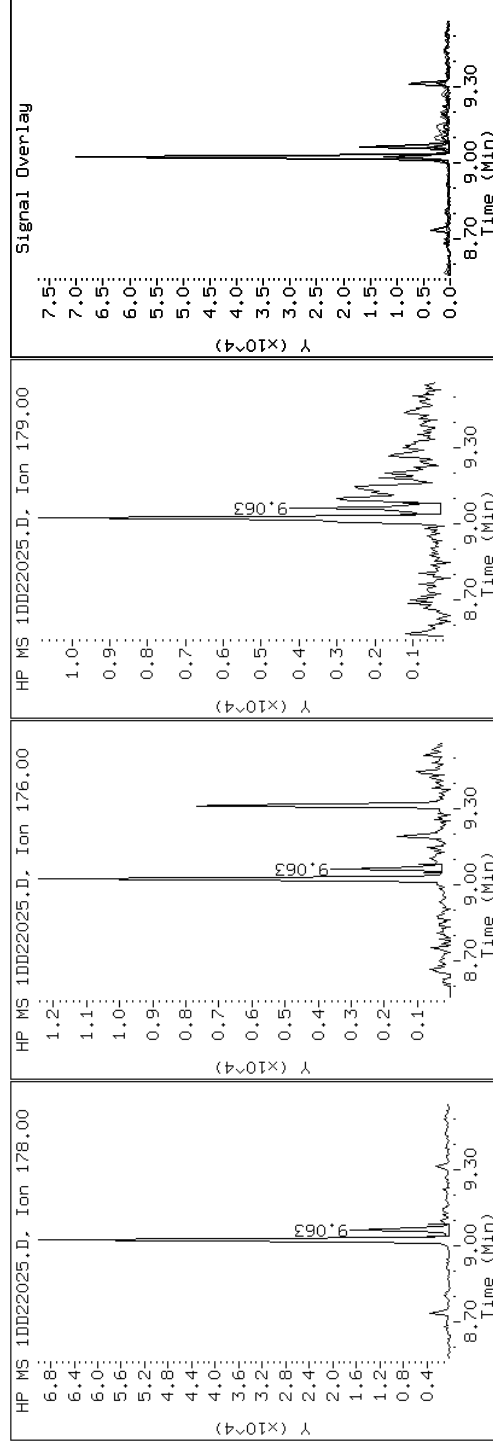
Client ID: CV0695B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-29-A

Operator: SCC

11 Anthracene



Data File: 1DD22025.D

Date: 22-APR-2013 19:01

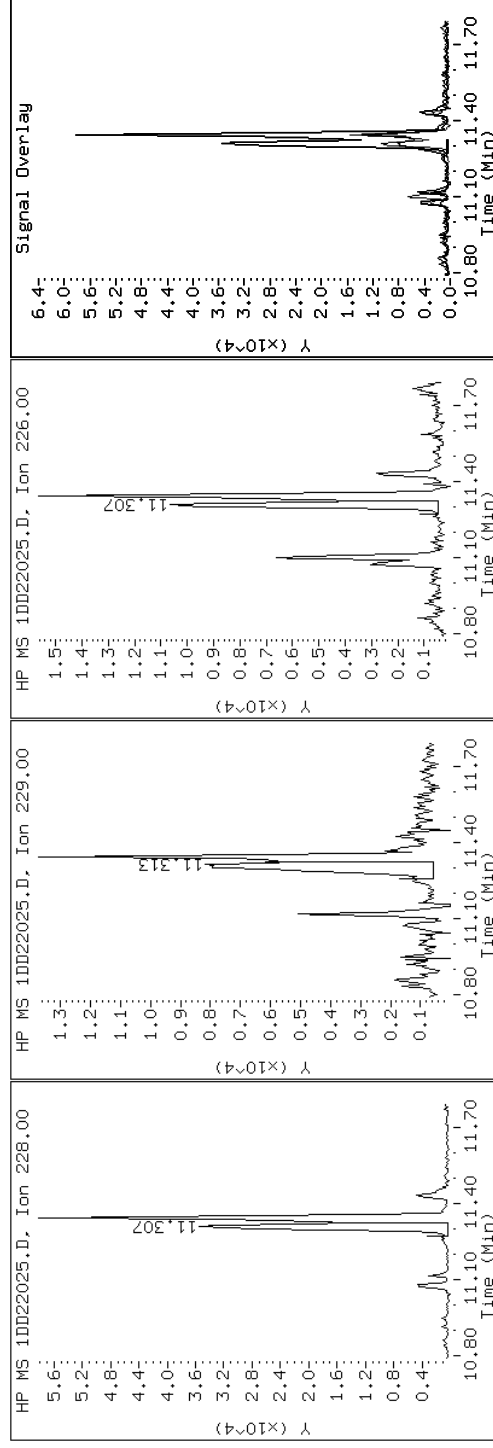
Client ID: CV0695B-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-29-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD22025.D

Date: 22-APR-2013 19:01

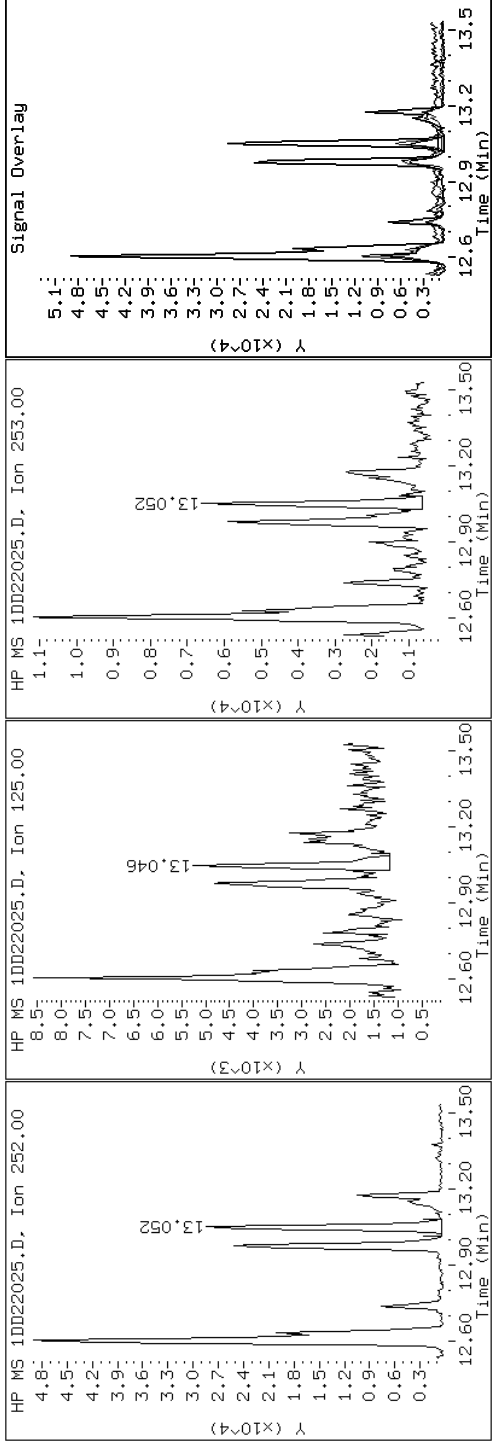
Client ID: CV0695B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-29-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD22025.D

Date: 22-APR-2013 19:01

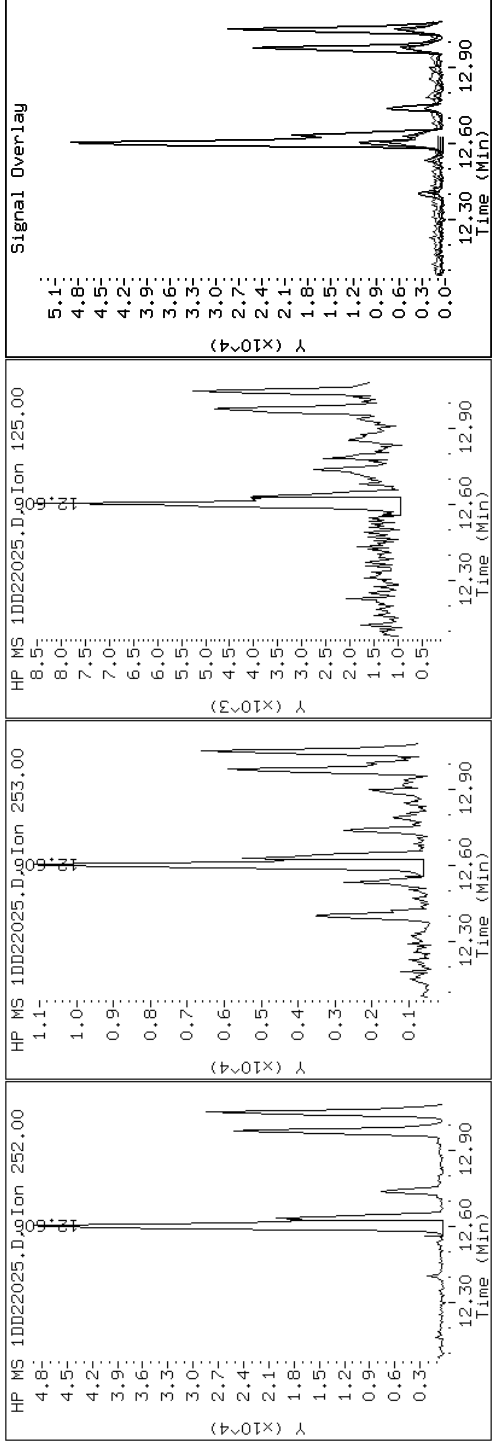
Client ID: CV0695B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-29-A

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD22025.D

Date: 22-APR-2013 19:01

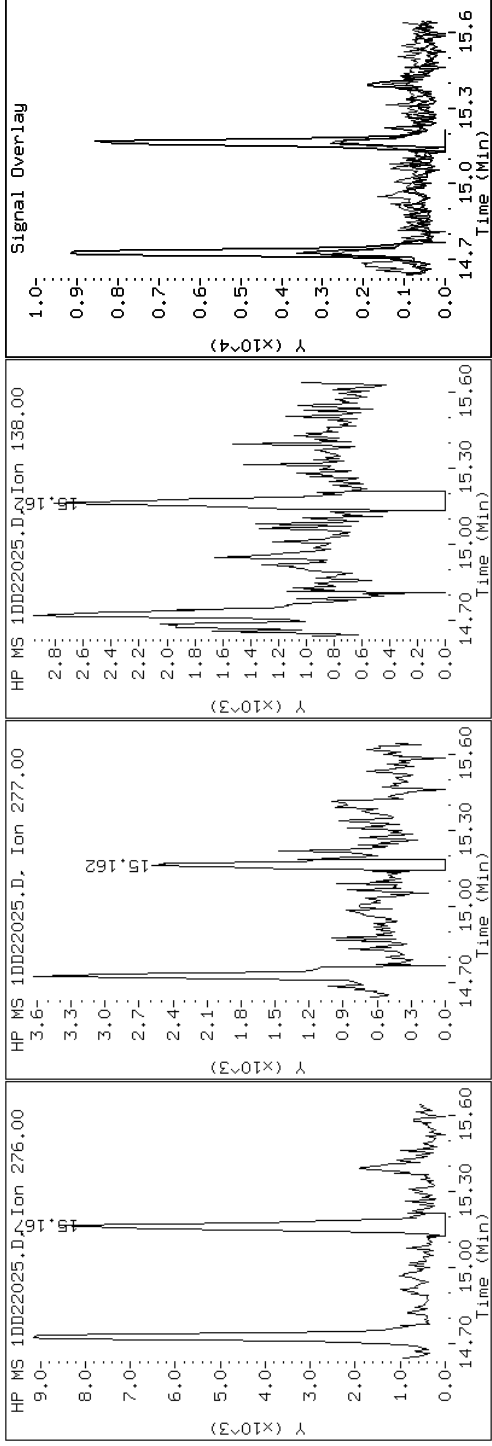
Client ID: CV0695B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-29-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD22025.D

Date: 22-APR-2013 19:01

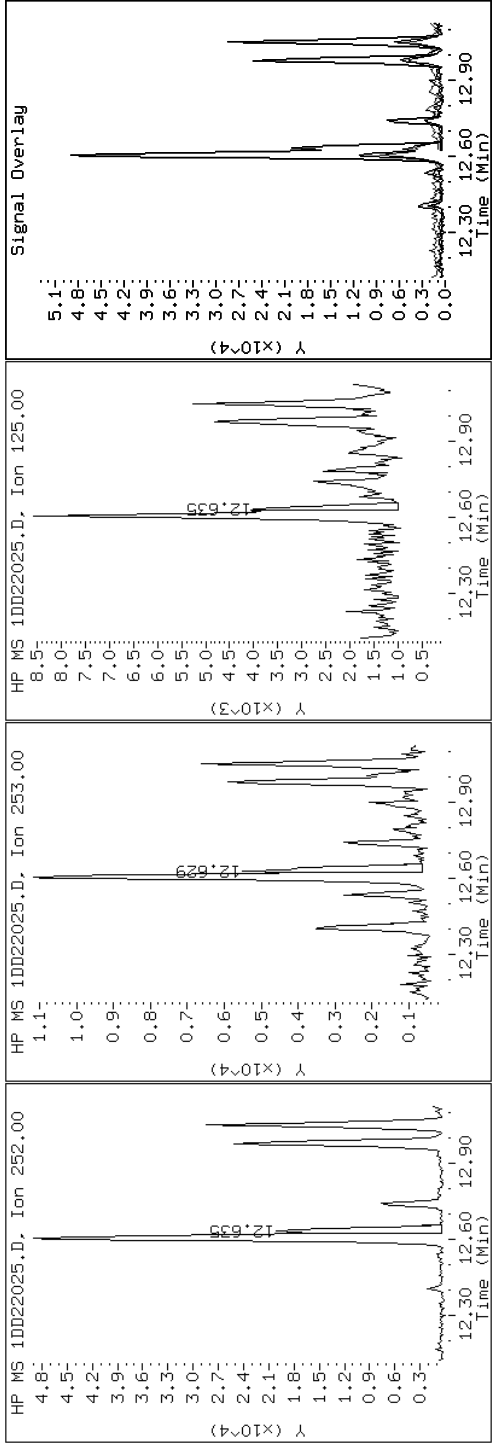
Client ID: CV0695B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-29-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD22025.D

Date: 22-APR-2013 19:01

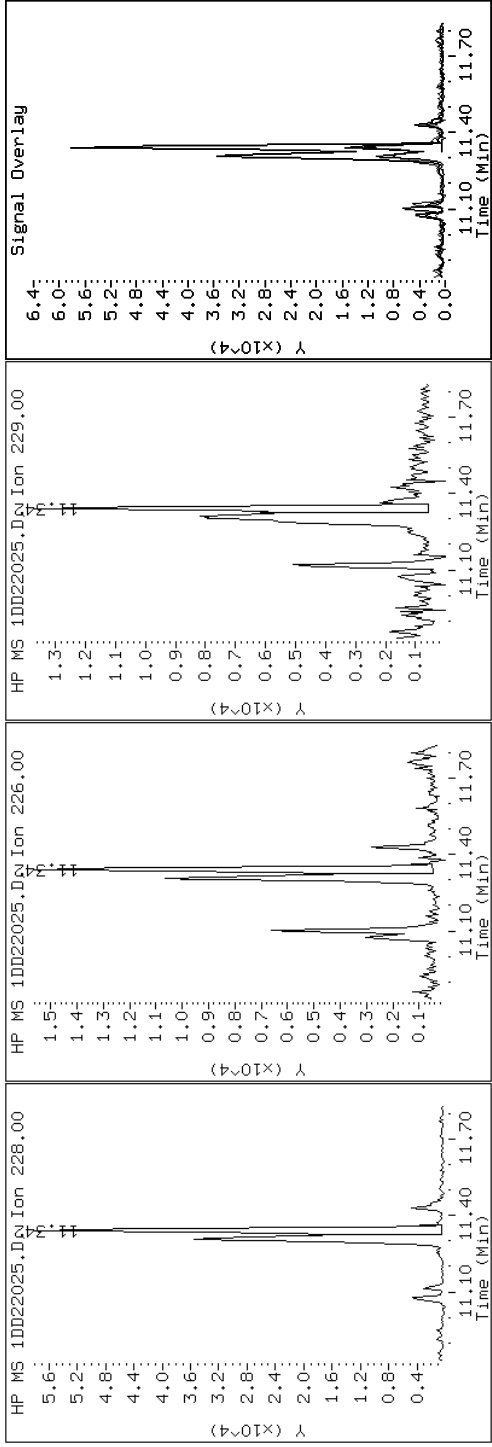
Client ID: CV0695B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-29-A

Operator: SCC

18 Chrysene



Data File: 1DD22025.D

Date: 22-APR-2013 19:01

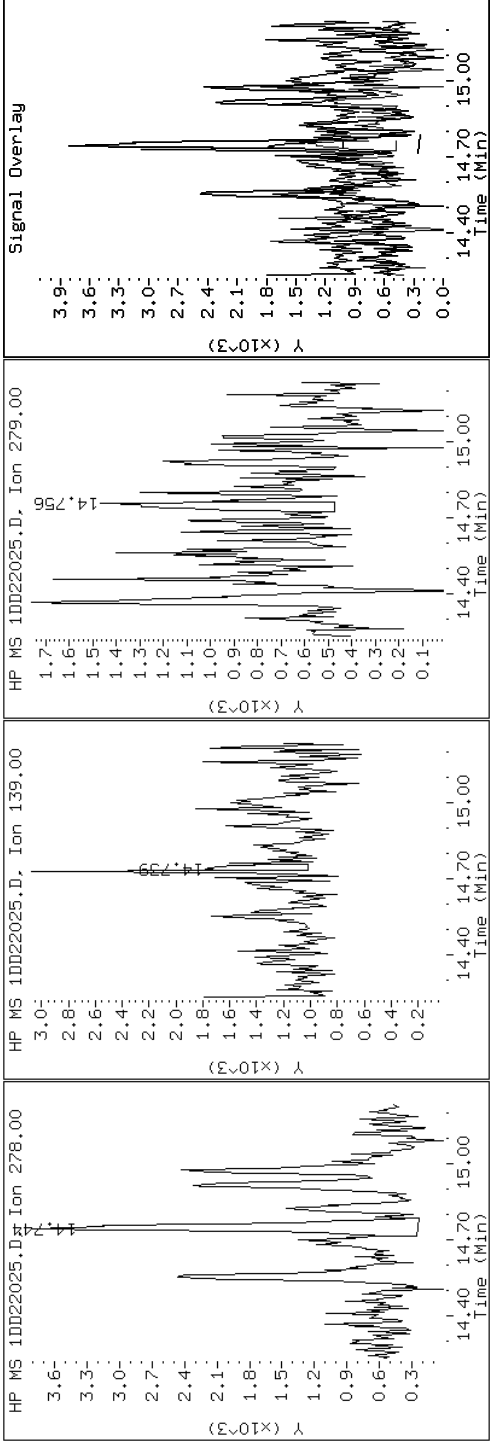
Client ID: CV0695B-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-29-A

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD22025.D

Date: 22-APR-2013 19:01

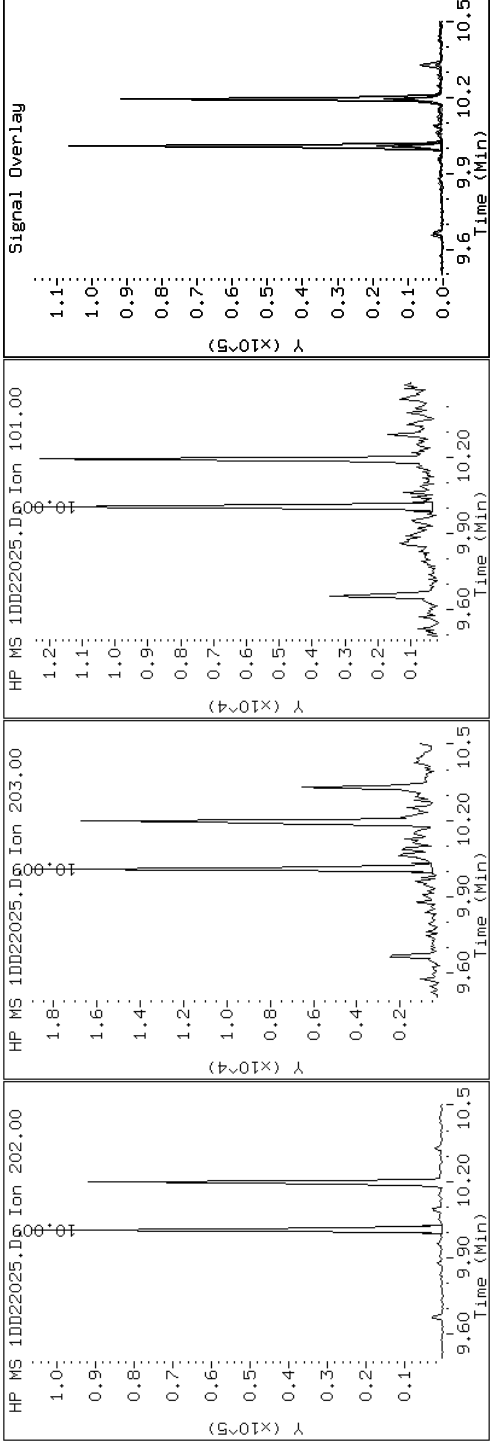
Client ID: CV0695B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-29-A

Operator: SCC

14 Fluoranthene



Data File: 1DD22025.D

Date: 22-APR-2013 19:01

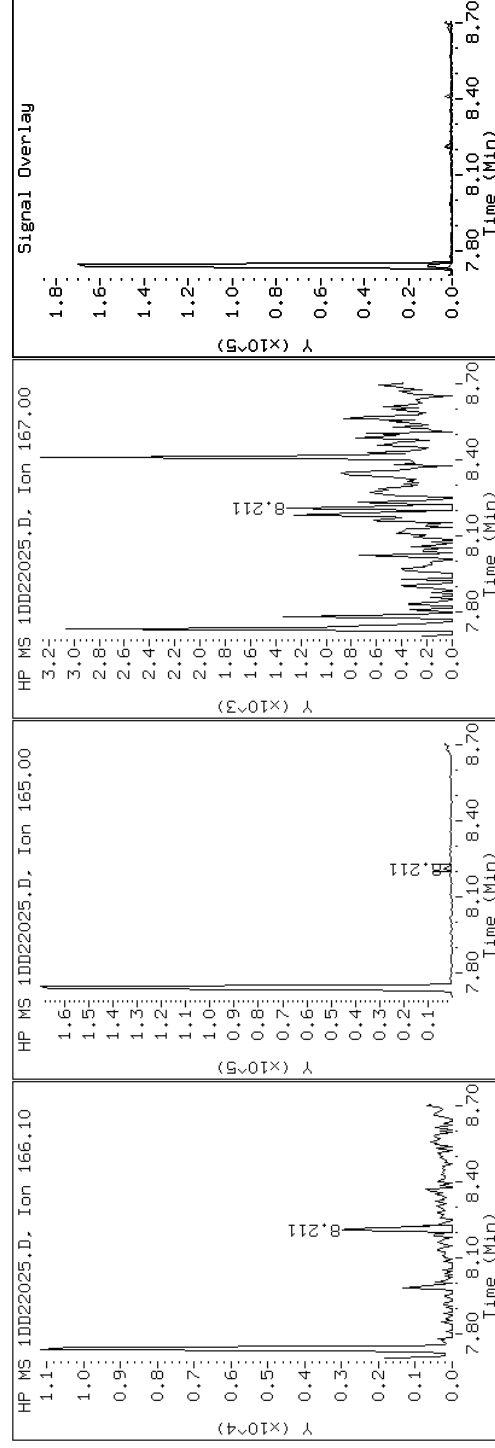
Client ID: CV0695B-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-29-A

Operator: SCC

8 Fluorene



Data File: 1DD22025.D

Date: 22-APR-2013 19:01

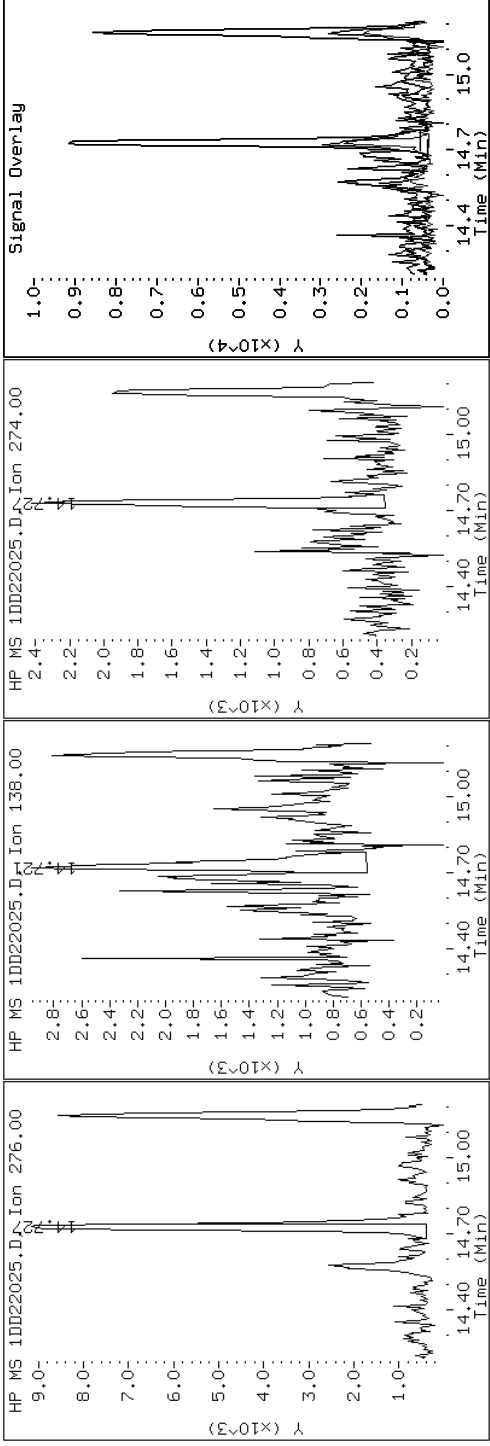
Client ID: CV0695B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-29-A

Operator: SCC

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



Data File: 1DD22025.D

Date: 22-APR-2013 19:01

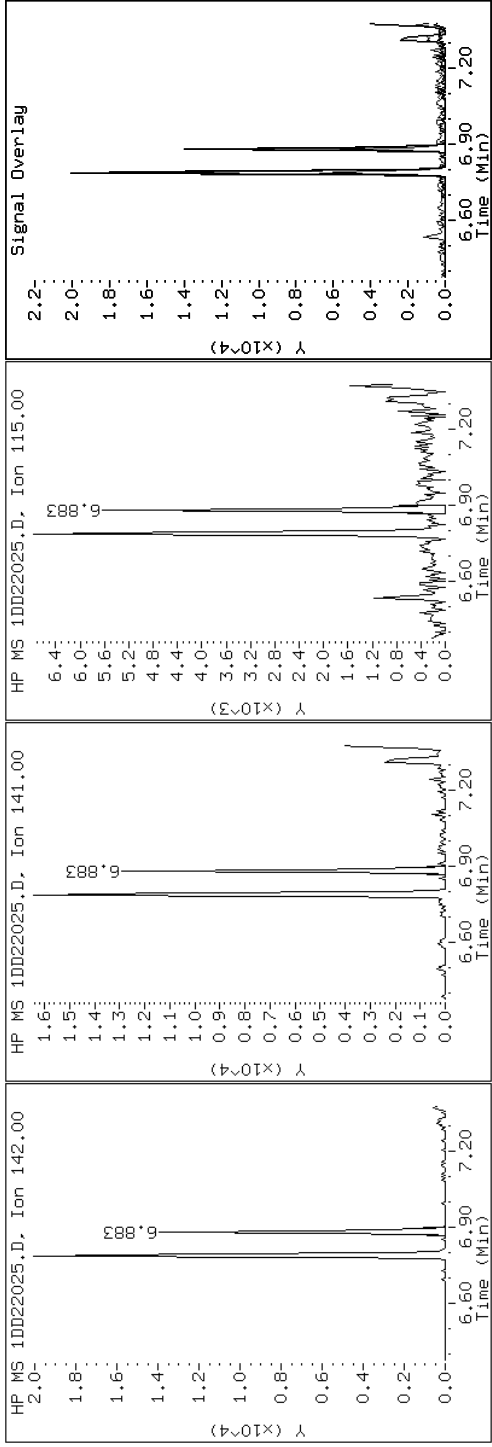
Client ID: CV0695B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-29-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD22025.D

Date: 22-APR-2013 19:01

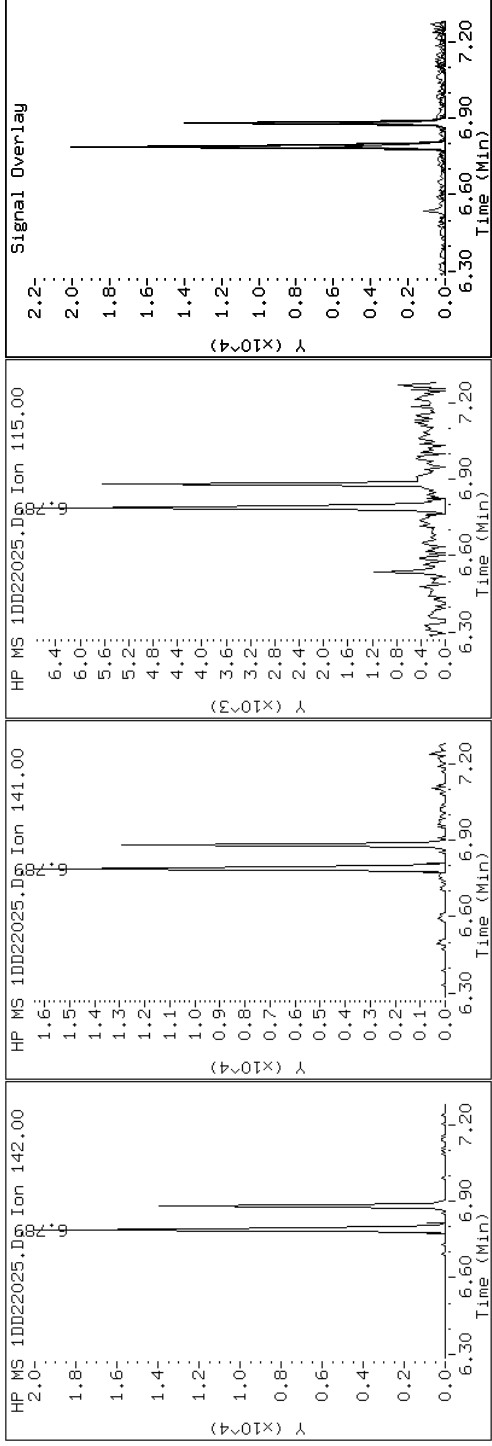
Client ID: CV0695B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-29-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD22025.D

Date: 22-APR-2013 19:01

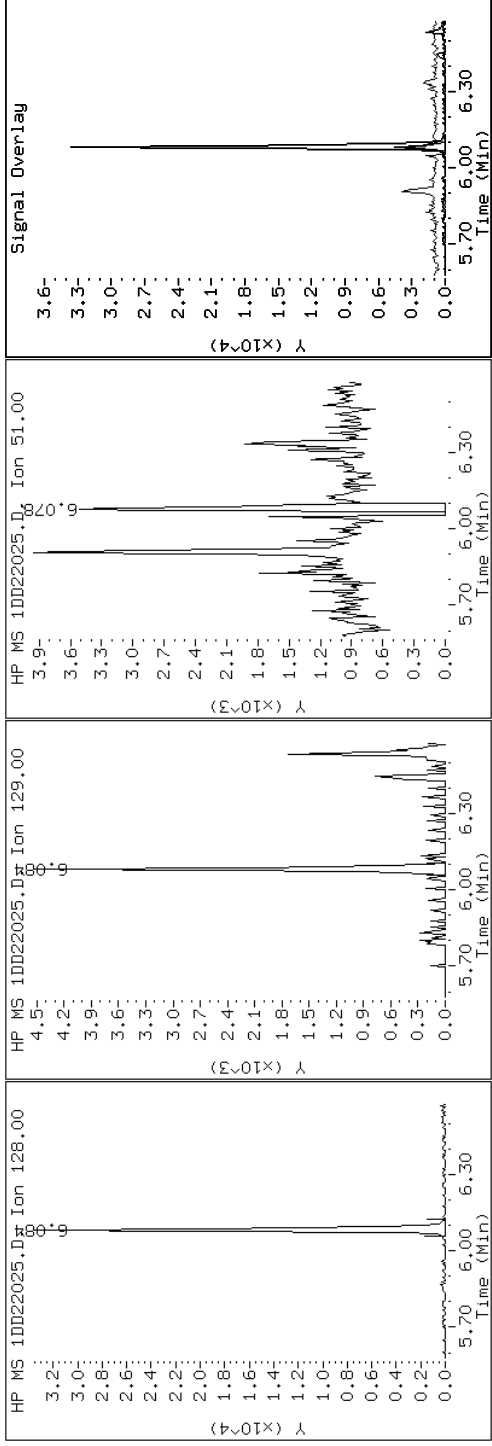
Client ID: CV0695B-CS

Instrument: BSMDS.i

Sample Info: 680-89328-A-29-A

Operator: SCC

2 Naphthalene



Data File: 1DD22025.D

Date: 22-APR-2013 19:01

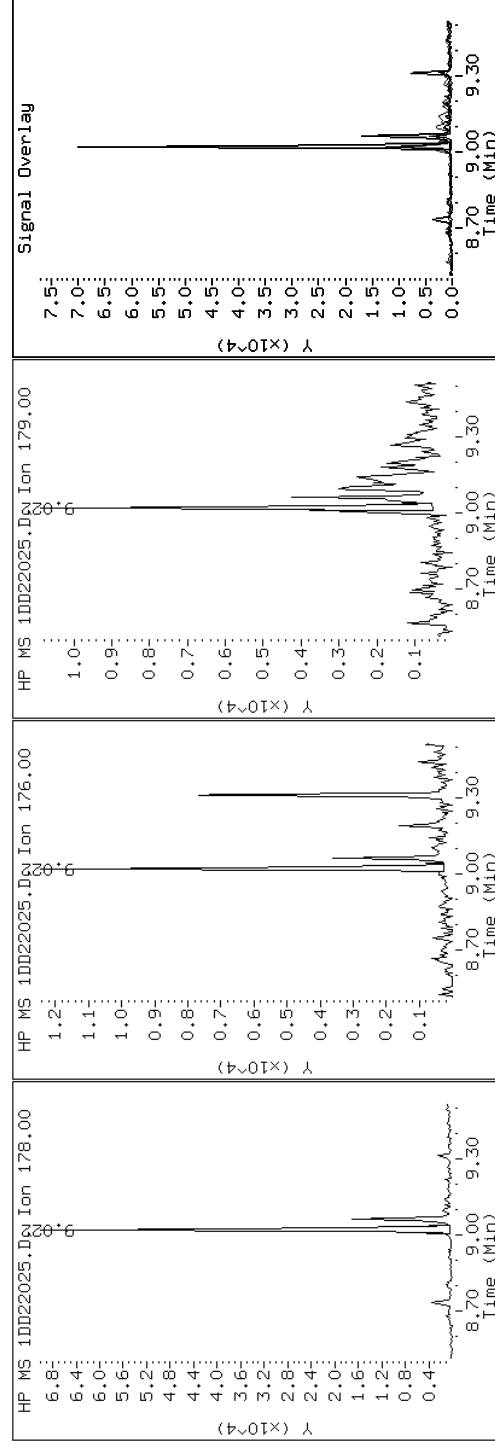
Client ID: CV0695B-CS

Instrument: BSMSD.i

Sample Info: 680-89328-A-29-A

Operator: SCC

10 Phenanthrene



Data File: 1DD22025.D

Date: 22-APR-2013 19:01

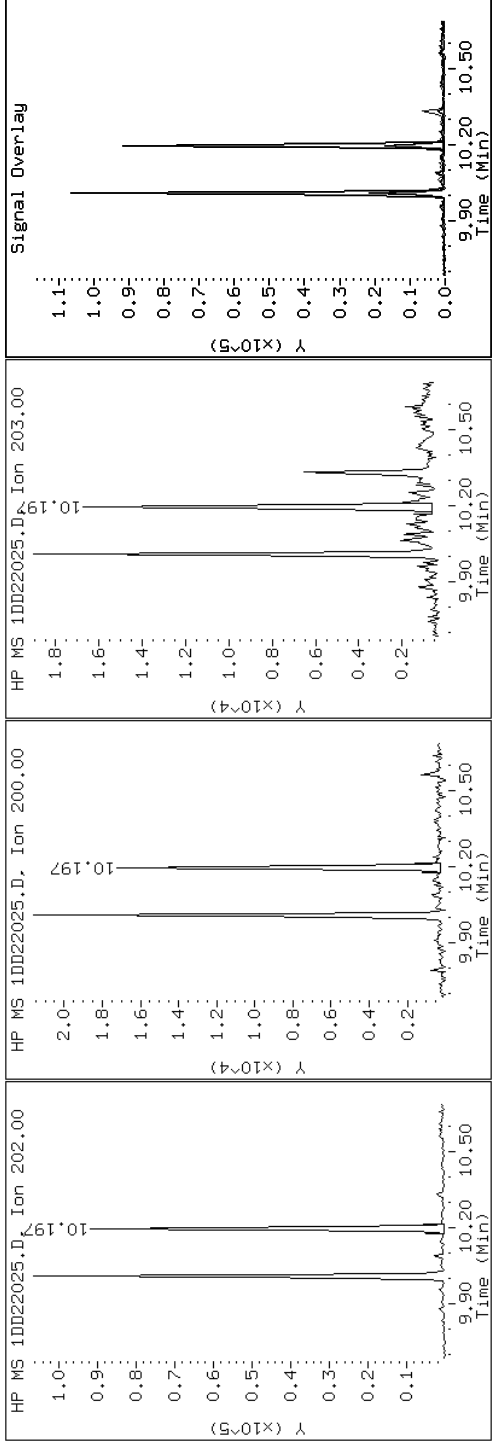
Client ID: CV0695B-CS

Instrument: BSMMSD.i

Sample Info: 680-89328-A-29-A

Operator: SCC

15 Pyrene

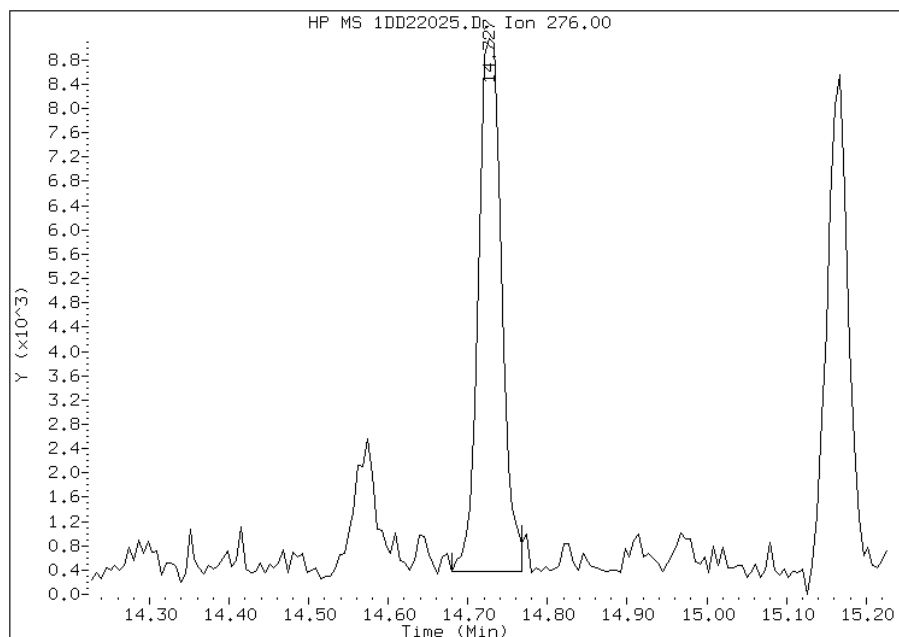


Manual Integration Report

Data File: 1DD22025.D
Inj. Date and Time: 22-APR-2013 19:01
Instrument ID: BSMSD.i
Client ID: CV0695B-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

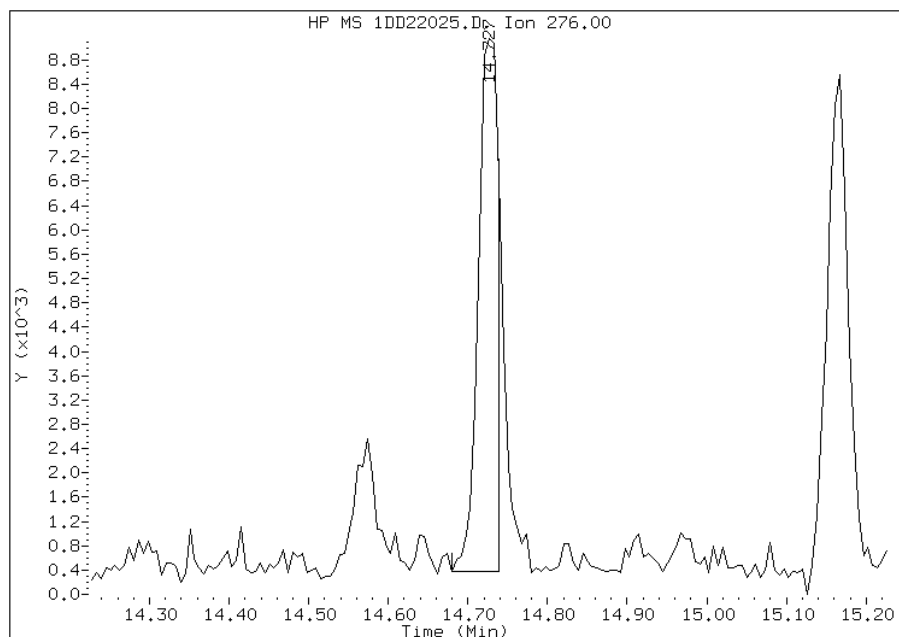
Processing Integration Results

RT: 14.73
Response: 17756
Amount: 0
Conc: 31



Manual Integration Results

RT: 14.73
Response: 15076
Amount: 0
Conc: 27



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 10:58
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 Client Sample ID: CV0676A-CS-SP Lab Sample ID: 680-89328-30
 Matrix: Solid Lab File ID: 1DD22026.D
 Analysis Method: 8270C LL Date Collected: 04/12/2013 09:05
 Extract. Method: 3546 Date Extracted: 04/18/2013 15:43
 Sample wt/vol: 14.97(g) Date Analyzed: 04/22/2013 19:24
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 8.3 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136733 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	44	U	44	5.5
120-12-7	Anthracene	8.1	J	9.2	4.6
56-55-3	Benzo[a]anthracene	27		8.7	4.3
50-32-8	Benzo[a]pyrene	21		11	5.7
205-99-2	Benzo[b]fluoranthene	48		13	6.7
191-24-2	Benzo[g,h,i]perylene	14	J	22	4.8
207-08-9	Benzo[k]fluoranthene	11		8.7	3.9
218-01-9	Chrysene	38		9.8	4.9
53-70-3	Dibenz(a,h)anthracene	5.2	J	22	4.5
206-44-0	Fluoranthene	39		22	4.4
86-73-7	Fluorene	6.0	J	22	4.5
193-39-5	Indeno[1,2,3-cd]pyrene	9.9	J	22	7.8
90-12-0	1-Methylnaphthalene	23	J	44	4.8
91-57-6	2-Methylnaphthalene	30	J	44	7.8
91-20-3	Naphthalene	28	J	44	4.8
85-01-8	Phenanthrene	38		8.7	4.3
129-00-0	Pyrene	24		22	4.0

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22026.D
 Lab Smp Id: 680-89328-A-30-A Client Smp ID: CV0676A-CS-SP
 Inj Date : 22-APR-2013 19:24
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89328-A-30-A
 Misc Info : 680-89328-A-30-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
 Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 26
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	8.318	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.061	6.054	(1.000)	1939286	40.0000	
* 6 Acenaphthene-d10	164		7.741	7.734	(1.000)	1126091	40.0000	
* 9 Phenanthrene-d10	188		9.004	8.998	(1.000)	1894170	40.0000	
\$ 13 o-Terphenyl	230		9.310	9.309	(1.034)	185624	6.50396	470
* 17 Chrysene-d12	240		11.325	11.307	(1.000)	2259341	40.0000	
* 22 Perylene-d12	264		13.152	13.122	(1.000)	1917587	40.0000	
2 Naphthalene	128		6.084	6.077	(1.004)	18255	0.37872	28
3 2-Methylnaphthalene	142		6.789	6.783	(1.120)	12638	0.40616	30
4 1-Methylnaphthalene	142		6.883	6.877	(1.136)	9241	0.31449	23
5 Acenaphthylene	152		7.612	7.611	(0.983)	3128	0.06563	4.8
8 Fluorene	166		8.211	8.204	(1.061)	2876	0.08255	6.0
10 Phenanthrene	178		9.022	9.015	(1.002)	27183	0.52100	38
11 Anthracene	178		9.063	9.056	(1.007)	5792	0.11185	8.1
12 Carbazole	167		9.204	9.197	(1.022)	3540	0.07750	5.6

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.009	10.002	(1.112)	28537	0.53152	39
15 Pyrene	202	10.197	10.184	(0.900)	22331	0.32913	24
16 Benzo(a)anthracene	228	11.313	11.289	(0.999)	23806	0.36444	26
18 Chrysene	228	11.343	11.330	(1.002)	32135	0.52466	38
19 Benzo(b)fluoranthene	252	12.606	12.582	(0.958)	31725	0.66229	48
20 Benzo(k)fluoranthene	252	12.635	12.623	(0.961)	7344	0.14553	11
21 Benzo(a)pyrene	252	13.052	13.034	(0.992)	14188	0.29478	21
23 Indeno(1,2,3-cd)pyrene	276	14.727	14.709	(1.120)	6955	0.13552	9.9(M)
24 Dibenzo(a,h)anthracene	278	14.750	14.732	(1.122)	3432	0.07101	5.2(M)
25 Benzo(g,h,i)perylene	276	15.168	15.143	(1.153)	9565	0.19356	14

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD22026.D

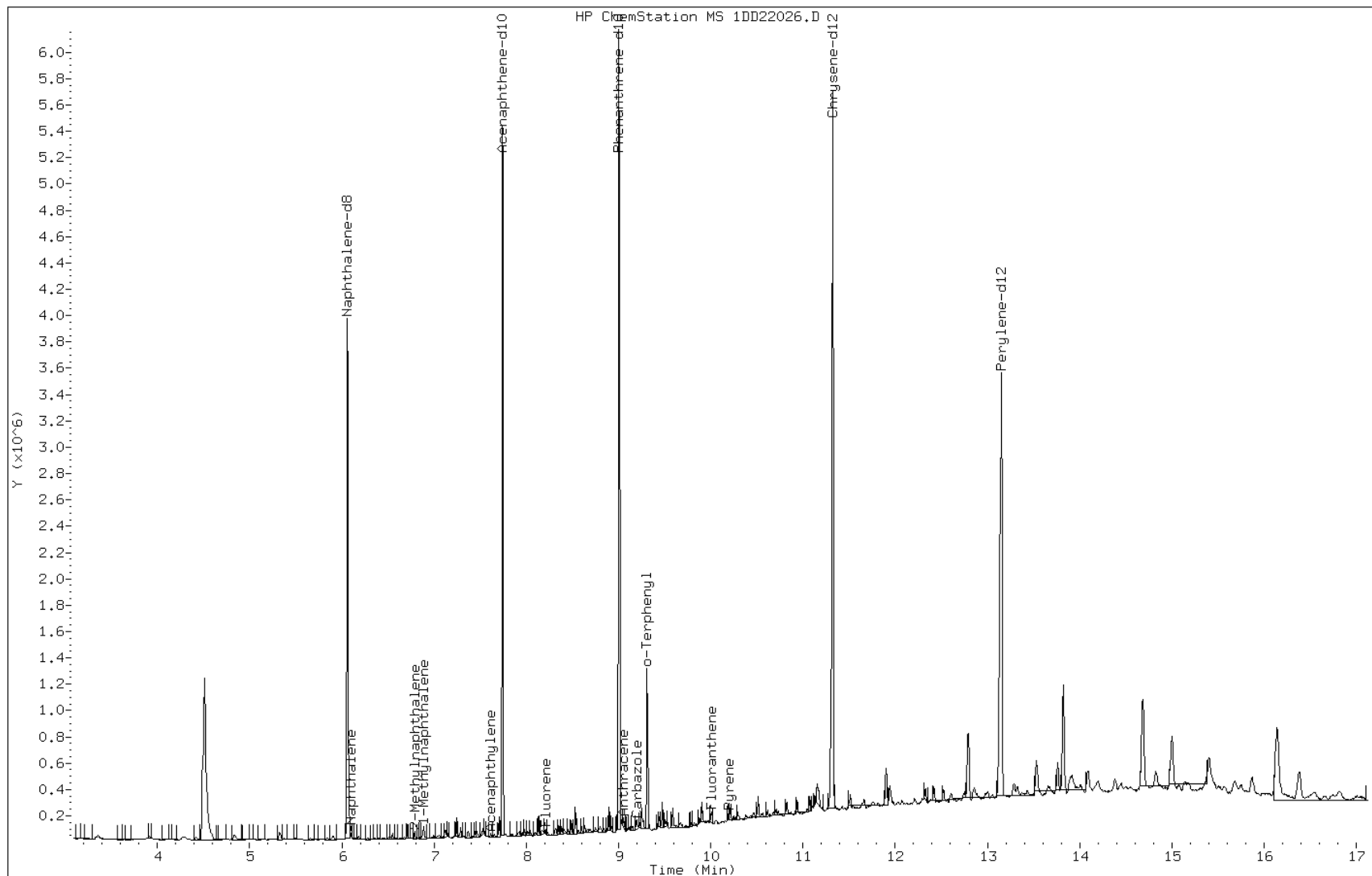
Date: 22-APR-2013 19:24

Client ID: CV0676A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89328-A-30-A

Operator: SCC



Data File: 1DD22026.D

Date: 22-APR-2013 19:24

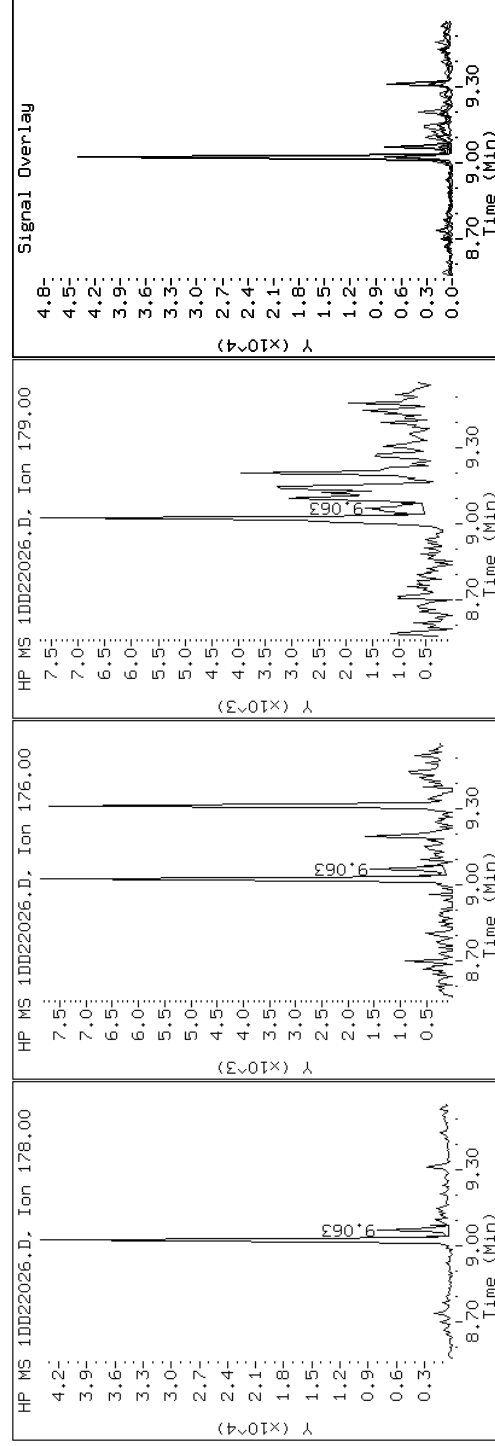
Client ID: CV0676A-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-30-A

Operator: SCC

11 Anthracene



Data File: 1DD22026.D

Date: 22-APR-2013 19:24

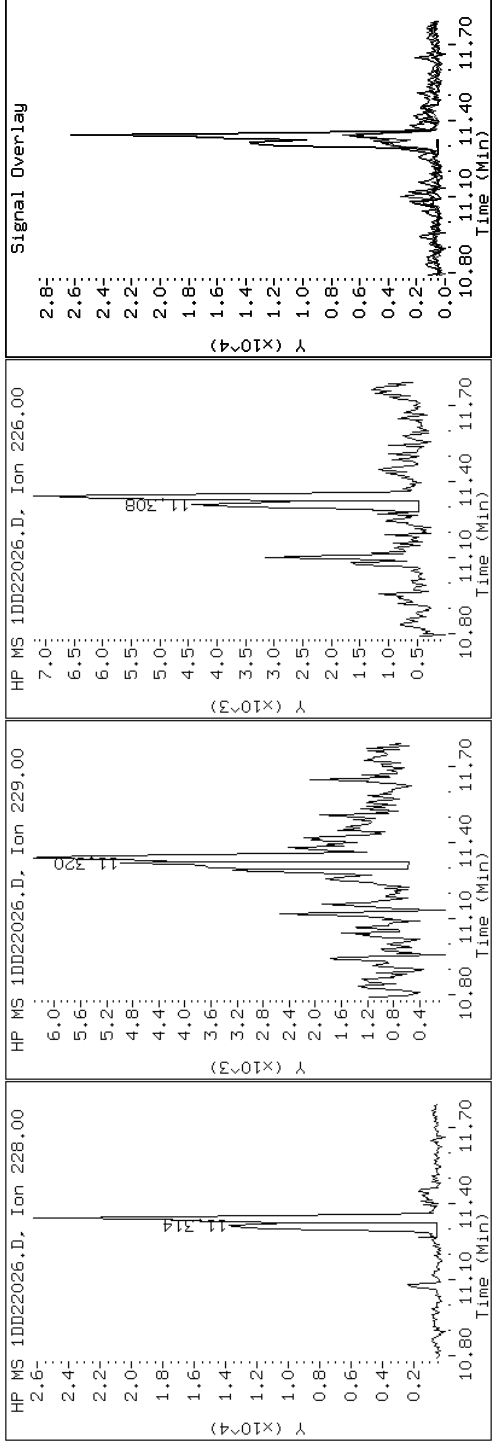
Client ID: CV0676A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89328-A-30-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD22026.D

Date: 22-APR-2013 19:24

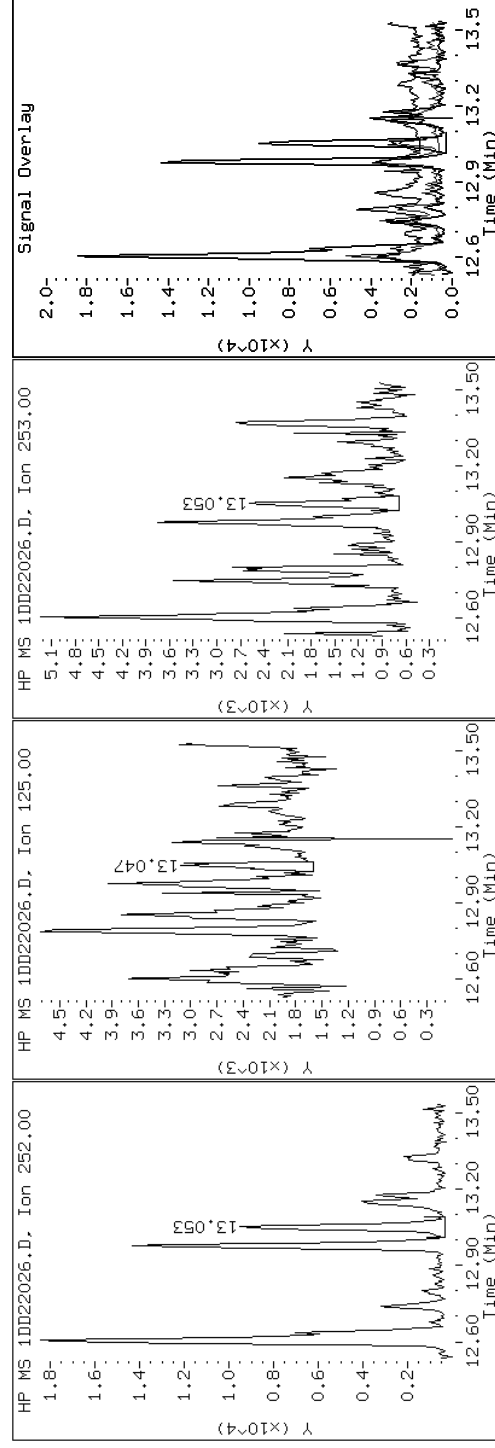
Client ID: CV0676A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89328-A-30-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD22026.D

Date: 22-APR-2013 19:24

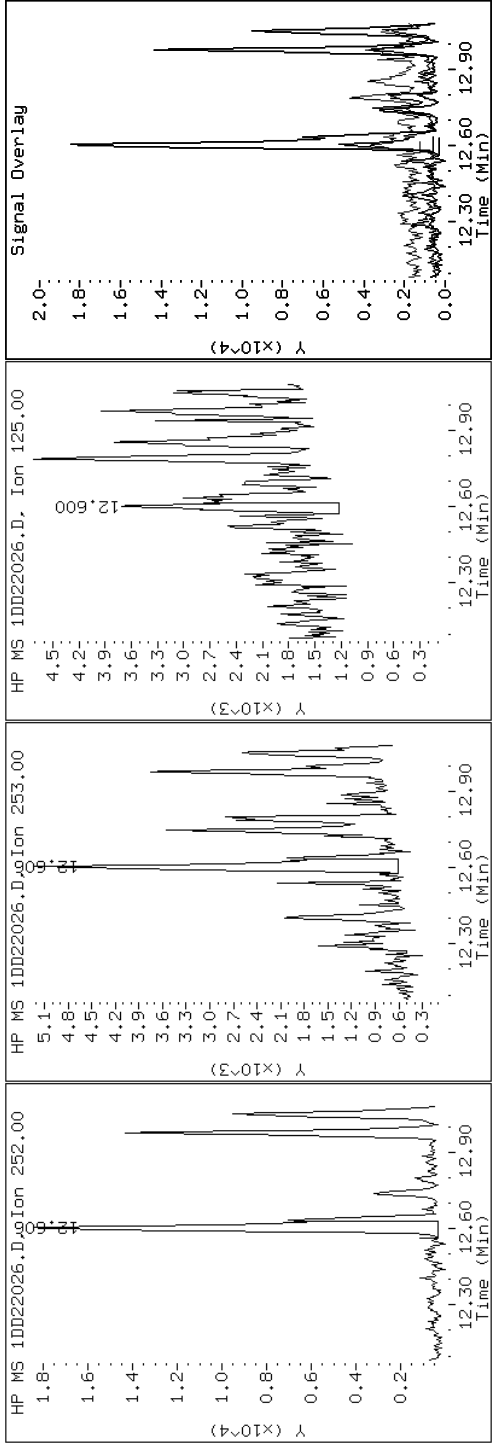
Client ID: CV0676A-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-30-A

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD22026.D

Date: 22-APR-2013 19:24

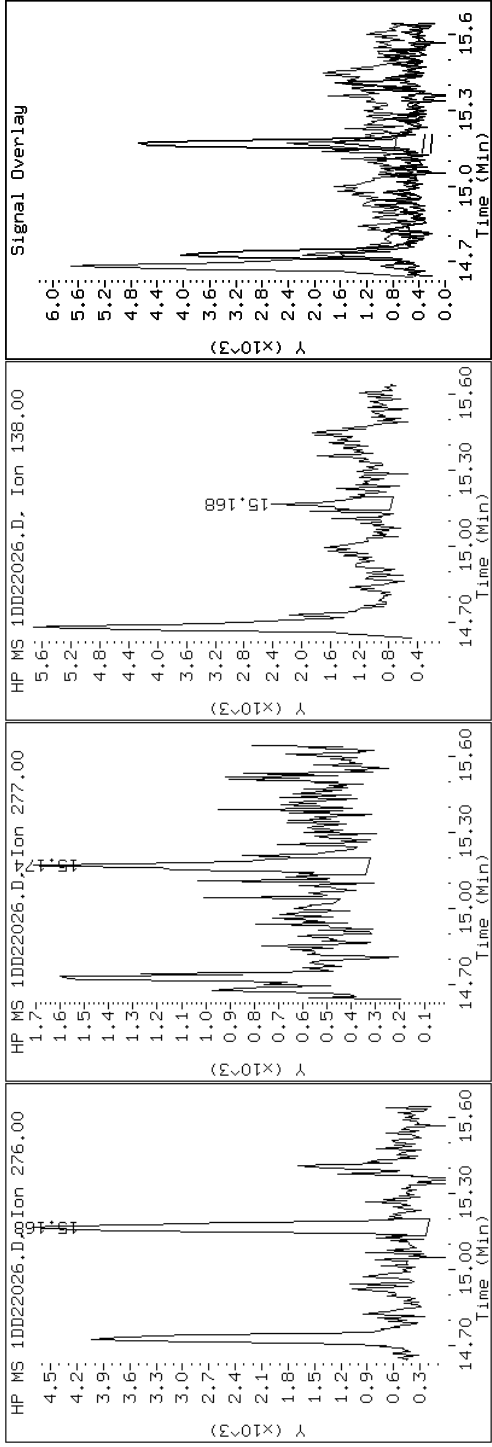
Client ID: CV0676A-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-30-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD22026.D

Date: 22-APR-2013 19:24

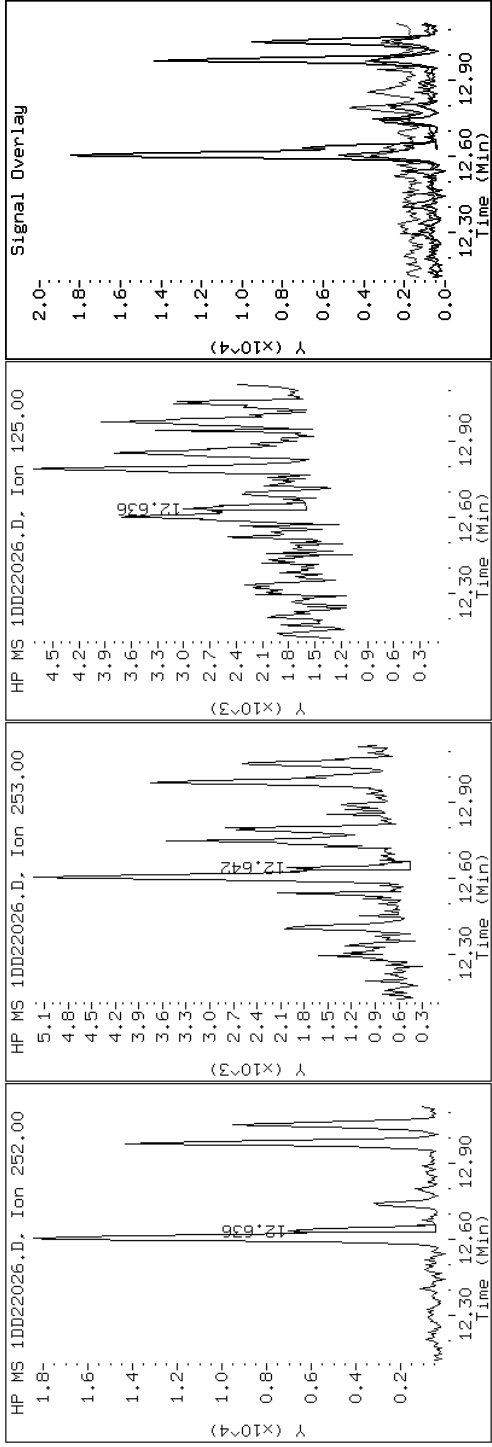
Client ID: CV0676A-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-30-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD22026.D

Date: 22-APR-2013 19:24

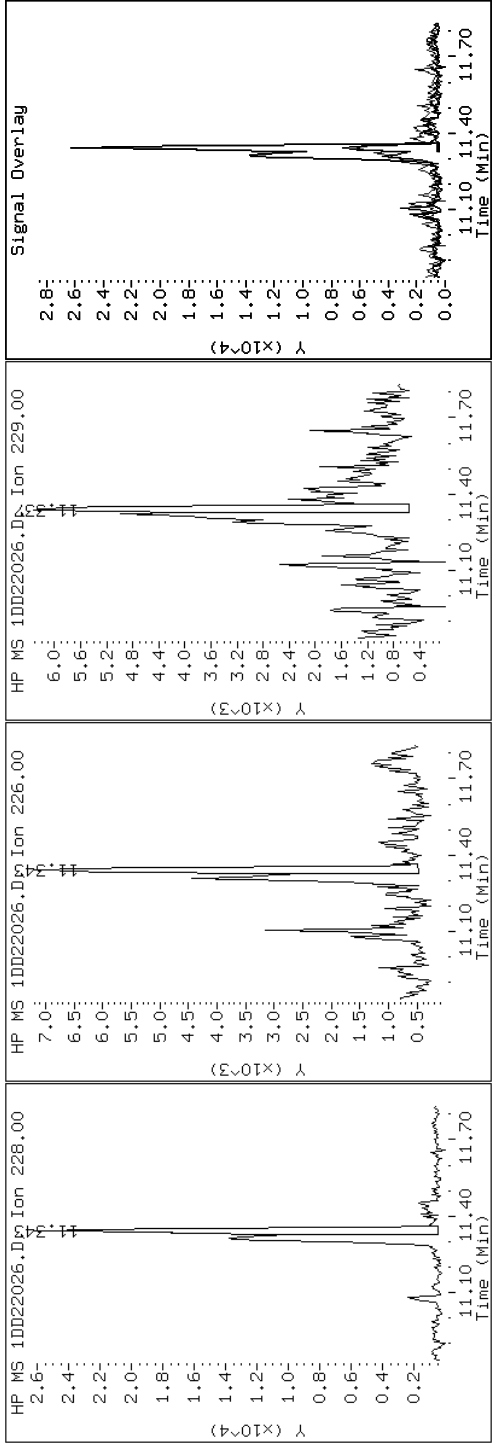
Client ID: CV0676A-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-30-A

Operator: SCC

18 Chrysene



Data File: 1DD22026.D

Date: 22-APR-2013 19:24

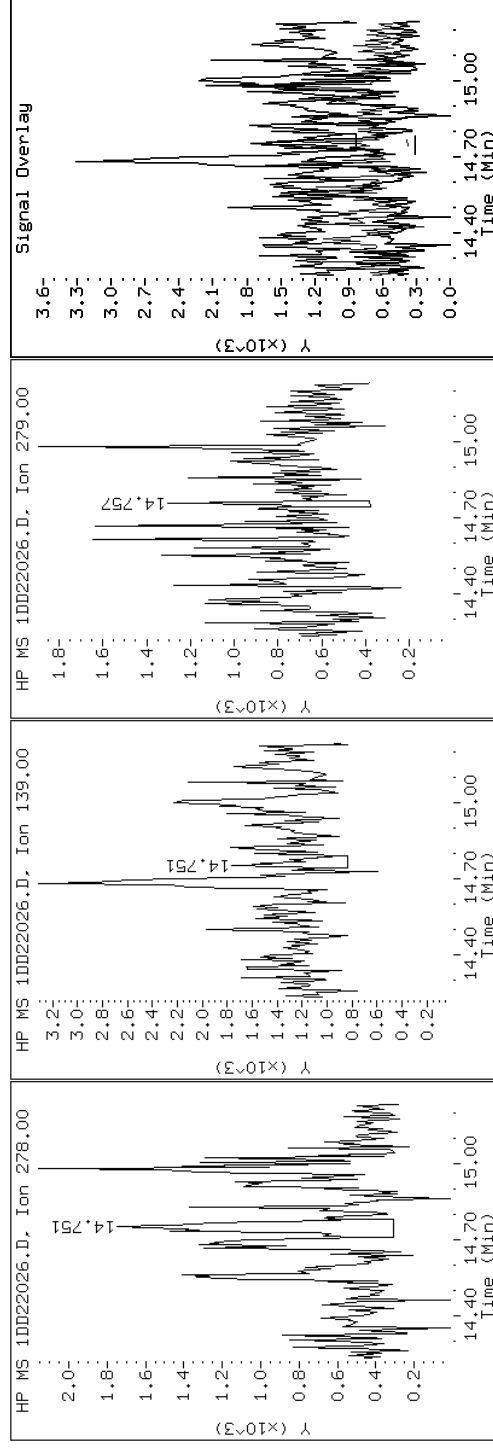
Client ID: CV0676A-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-30-A

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD22026.D

Date: 22-APR-2013 19:24

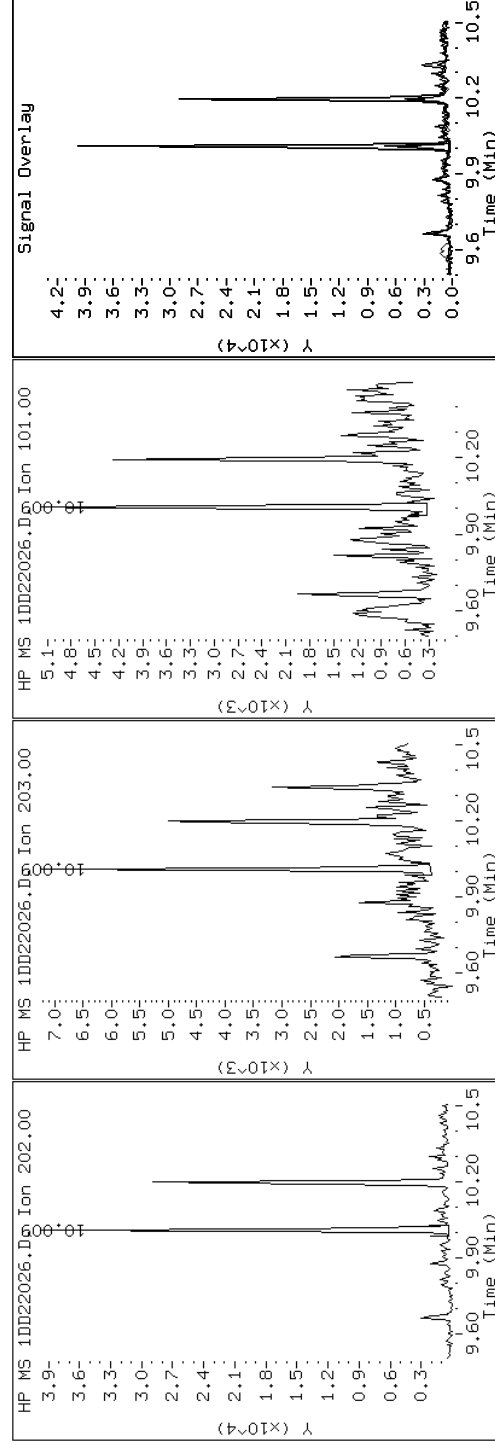
Client ID: CV0676A-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-30-A

Operator: SCC

14 Fluoranthene



Data File: 1DD22026.D

Date: 22-APR-2013 19:24

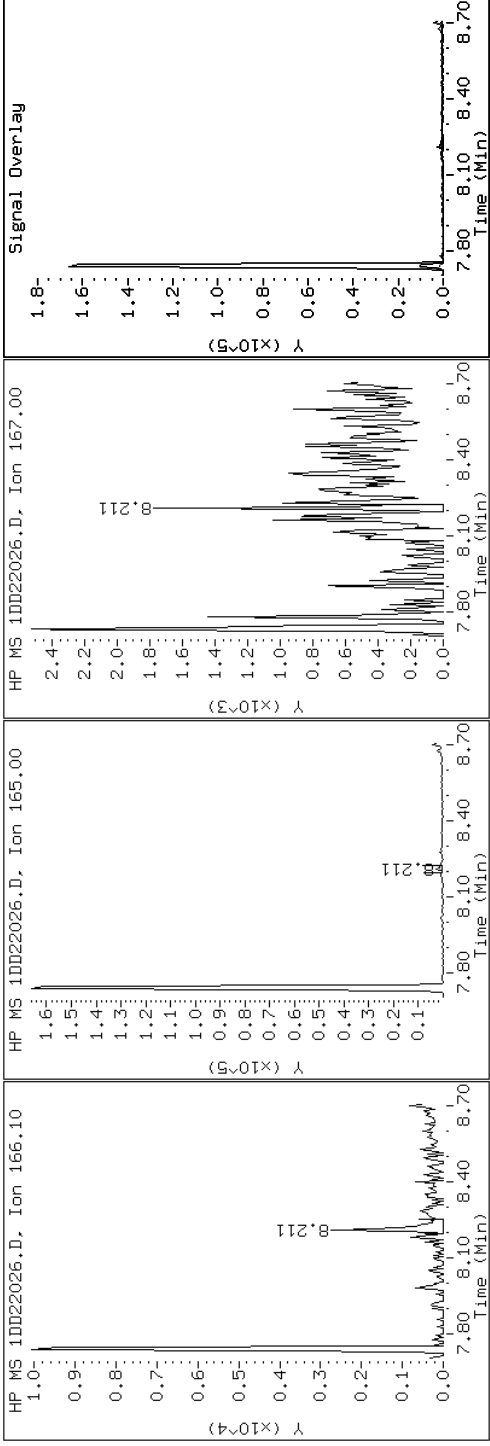
Client ID: CV0676A-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-30-A

Operator: SCC

8 Fluorene



Data File: 1DD22026.D

Date: 22-APR-2013 19:24

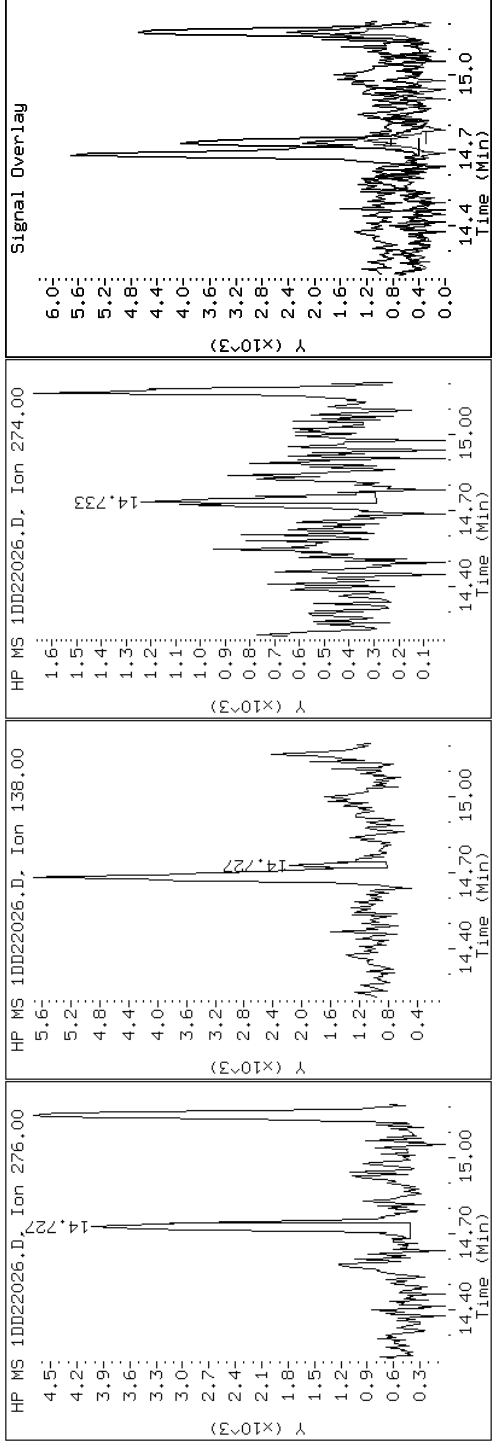
Client ID: CV0676A-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-30-A

Operator: SCC

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



Data File: 1DD22026.D

Date: 22-APR-2013 19:24

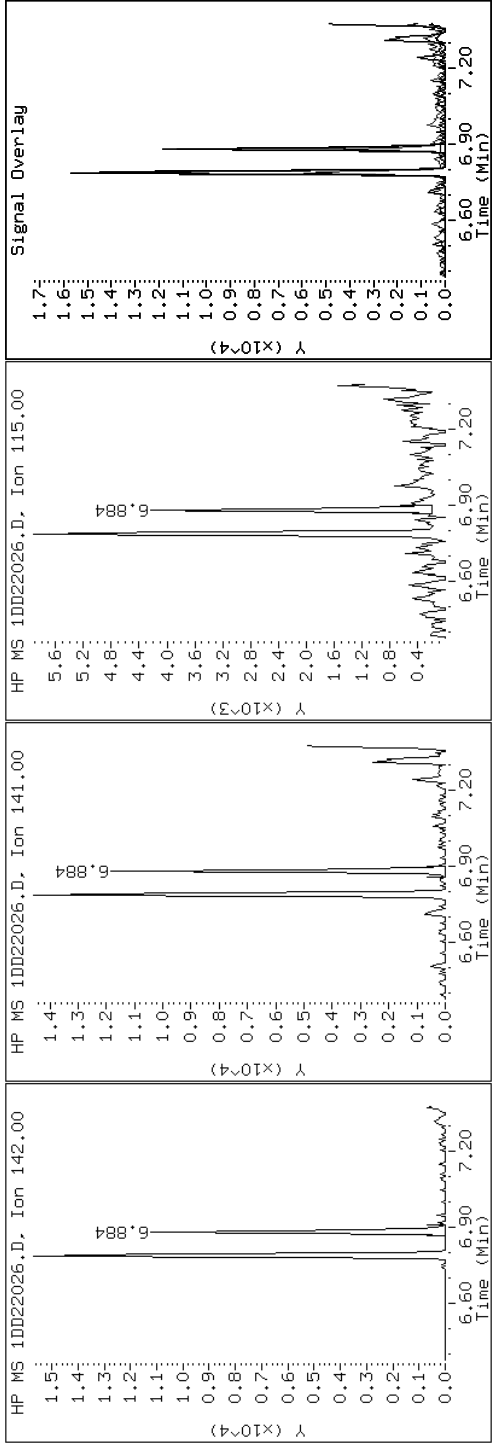
Client ID: CV0676A-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-30-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD22026.D

Date: 22-APR-2013 19:24

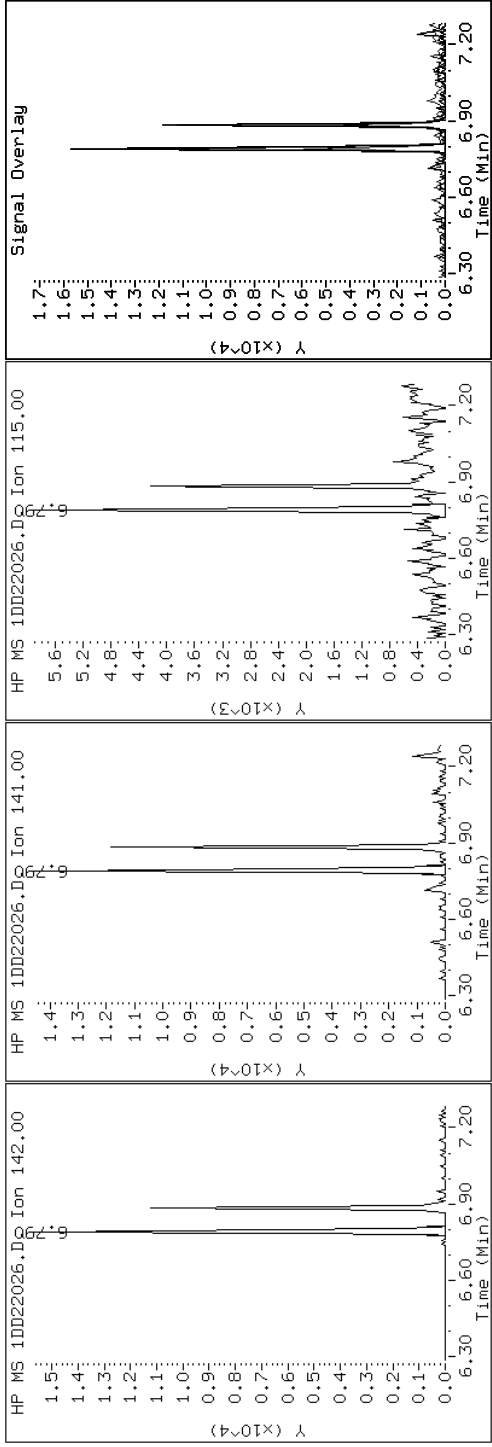
Client ID: CV0676A-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-30-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD22026.D

Date: 22-APR-2013 19:24

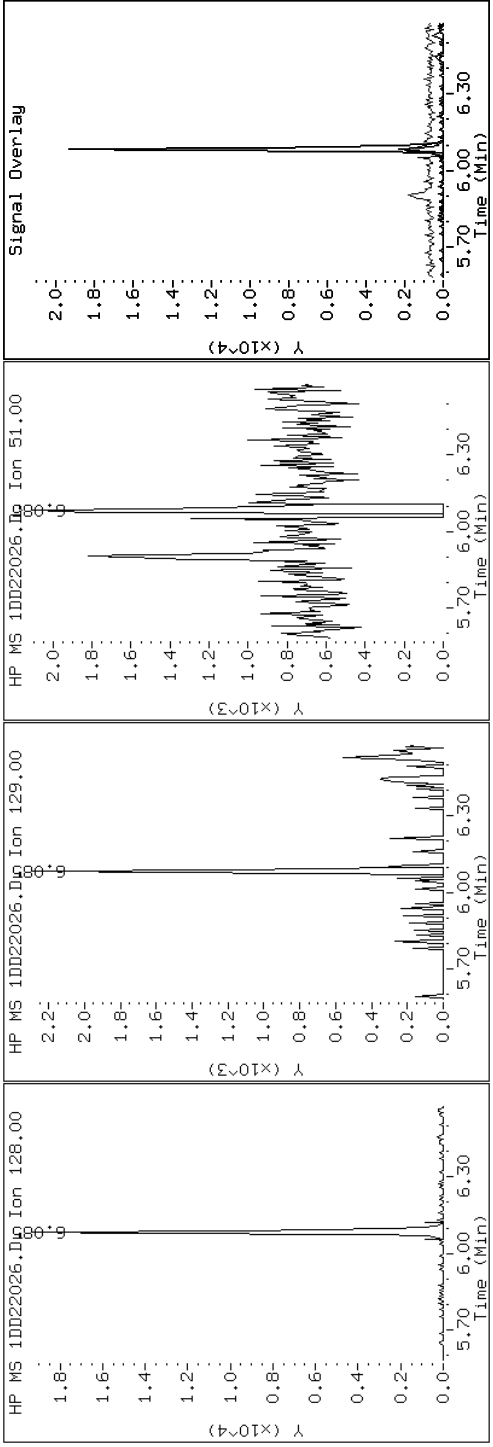
Client ID: CV0676A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89328-A-30-A

Operator: SCC

2 Naphthalene



Data File: 1DD22026.D

Date: 22-APR-2013 19:24

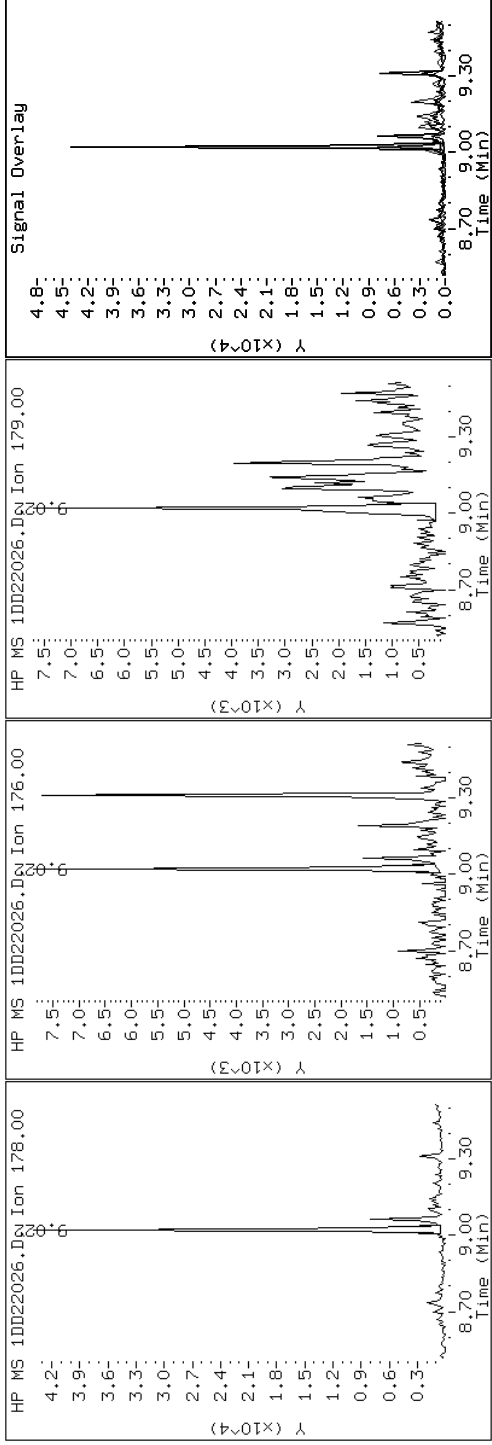
Client ID: CV0676A-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-30-A

Operator: SCC

10 Phenanthrene



Data File: 1DD22026.D

Date: 22-APR-2013 19:24

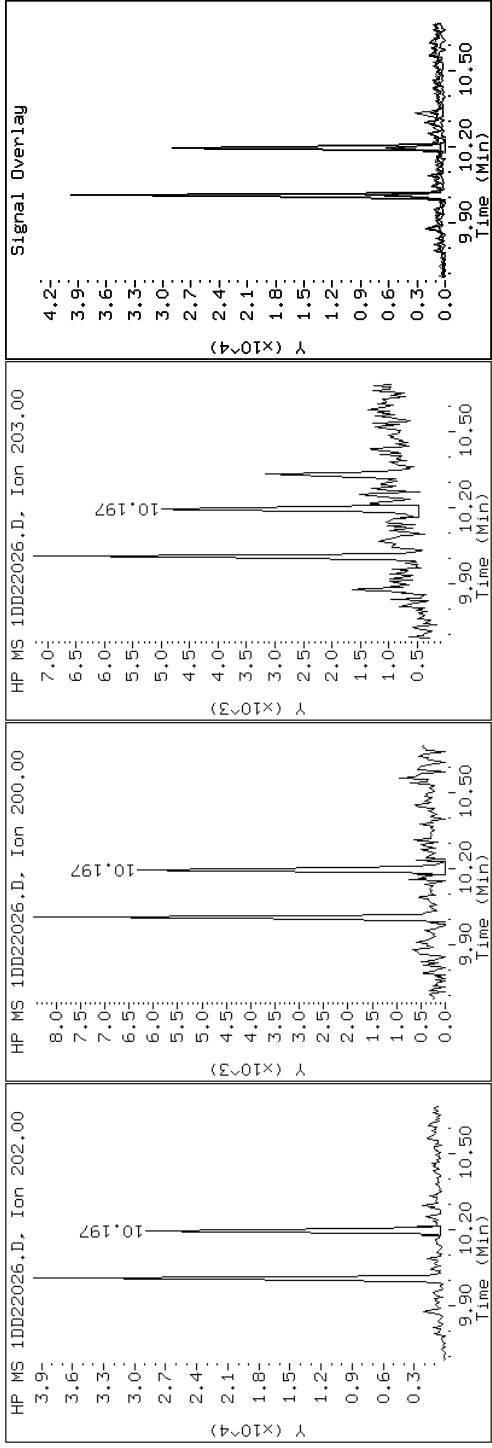
Client ID: CV0676A-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-30-A

Operator: SCC

15 Pyrene

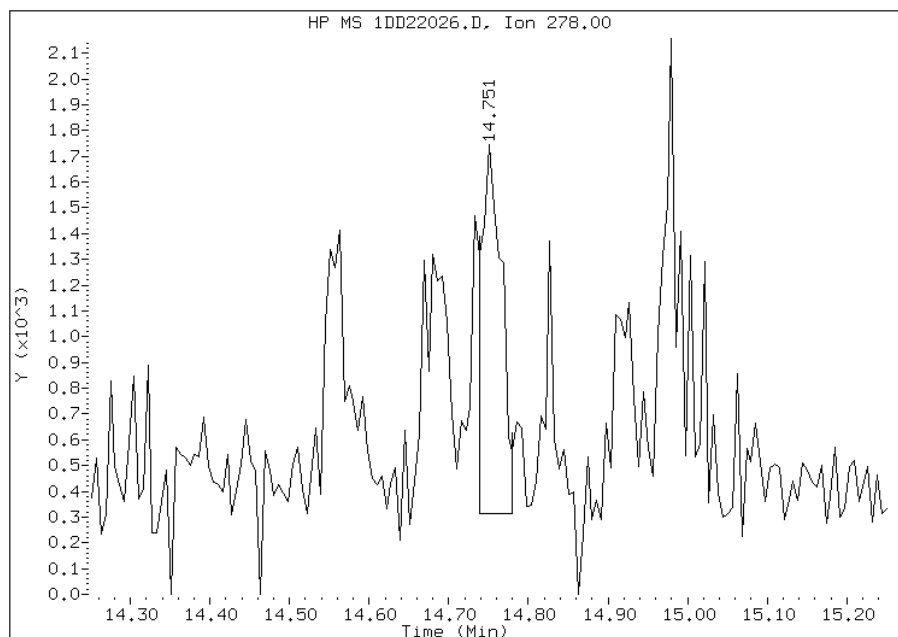


Manual Integration Report

Data File: 1DD22026.D
Inj. Date and Time: 22-APR-2013 19:24
Instrument ID: BSMSD.i
Client ID: CV0676A-CS-SP
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/23/2013

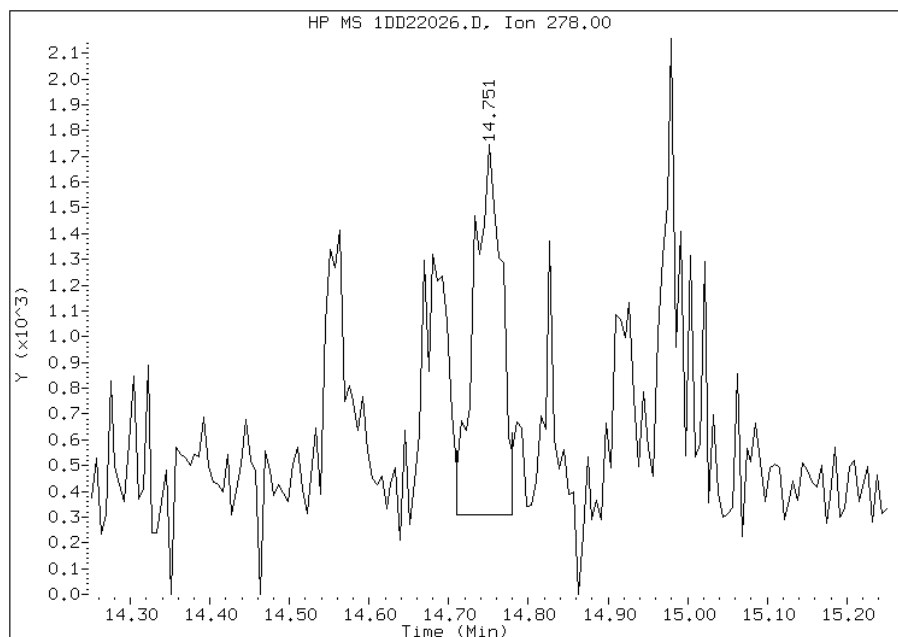
Processing Integration Results

RT: 14.75
Response: 2556
Amount: 0
Conc: 4



Manual Integration Results

RT: 14.75
Response: 3432
Amount: 0
Conc: 5



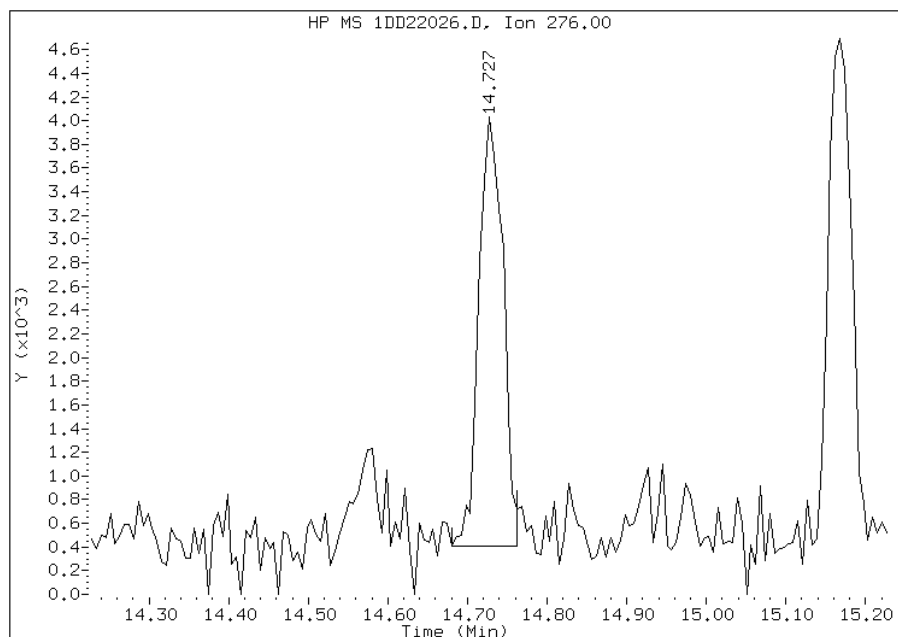
Manually Integrated By: cantins
Modification Date: 23-Apr-2013 10:59
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DD22026.D
Inj. Date and Time: 22-APR-2013 19:24
Instrument ID: BSMSD.i
Client ID: CV0676A-CS-SP
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

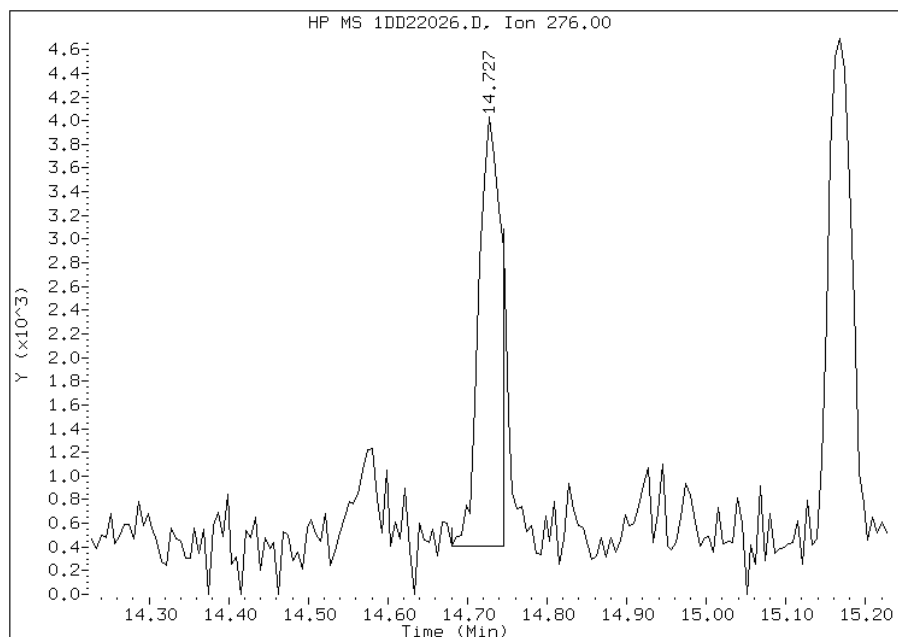
Processing Integration Results

RT: 14.73
Response: 7613
Amount: 0
Conc: 11



Manual Integration Results

RT: 14.73
Response: 6955
Amount: 0
Conc: 10



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 10:59
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 Client Sample ID: CV0676B-CS-SP Lab Sample ID: 680-89328-31
 Matrix: Solid Lab File ID: 1DD22027.D
 Analysis Method: 8270C LL Date Collected: 04/12/2013 08:48
 Extract. Method: 3546 Date Extracted: 04/18/2013 15:43
 Sample wt/vol: 15.24(g) Date Analyzed: 04/22/2013 19:46
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 12.4 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136733 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	45	U	45	5.6
120-12-7	Anthracene	7.1	J	9.4	4.7
56-55-3	Benzo[a]anthracene	30		9.0	4.4
50-32-8	Benzo[a]pyrene	24		12	5.8
205-99-2	Benzo[b]fluoranthene	50		14	6.9
191-24-2	Benzo[g,h,i]perylene	13	J	22	4.9
207-08-9	Benzo[k]fluoranthene	13		9.0	4.0
218-01-9	Chrysene	44		10	5.1
53-70-3	Dibenz(a,h)anthracene	22	U	22	4.6
206-44-0	Fluoranthene	43		22	4.5
86-73-7	Fluorene	22	U	22	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	11	J	22	8.0
90-12-0	1-Methylnaphthalene	39	J	45	4.9
91-57-6	2-Methylnaphthalene	44	J	45	8.0
91-20-3	Naphthalene	40	J	45	4.9
85-01-8	Phenanthrene	53		9.0	4.4
129-00-0	Pyrene	28		22	4.2

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22027.D
 Lab Smp Id: 680-89328-A-31-A Client Smp ID: CV0676B-CS-SP
 Inj Date : 22-APR-2013 19:46
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89328-A-31-A
 Misc Info : 680-89328-A-31-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
 Meth Date : 22-Apr-2013 11:04 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	15.240	Weight Extracted
M	12.417	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL			
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)
* 1 Naphthalene-d8	136	6.061	6.054	(1.000)	1898326	40.0000	
* 6 Acenaphthene-d10	164	7.747	7.734	(1.000)	1108897	40.0000	
* 9 Phenanthrene-d10	188	9.004	8.998	(1.000)	1804464	40.0000	
\$ 13 o-Terphenyl	230	9.310	9.309	(1.034)	179389	6.59797	490
* 17 Chrysene-d12	240	11.325	11.307	(1.000)	2200771	40.0000	
* 22 Perylene-d12	264	13.152	13.122	(1.000)	1891261	40.0000	
2 Naphthalene	128	6.084	6.077	(1.004)	24951	0.52880	40
3 2-Methylnaphthalene	142	6.789	6.783	(1.120)	17909	0.58798	44
4 1-Methylnaphthalene	142	6.883	6.877	(1.136)	14903	0.51812	39
5 Acenaphthylene	152	7.618	7.611	(0.983)	3077	0.06556	4.9
8 Fluorene	166	8.217	8.204	(1.061)	1484	0.04326	3.2(Q)
10 Phenanthrene	178	9.022	9.015	(1.002)	35112	0.70643	53
11 Anthracene	178	9.063	9.056	(1.007)	4679	0.09485	7.1
12 Carbazole	167	9.204	9.197	(1.022)	4195	0.09641	7.2(Q)

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.009	10.002	(1.112)	29281	0.57249	43
15 Pyrene	202	10.197	10.184	(0.900)	24454	0.37002	28
16 Benzo(a)anthracene	228	11.313	11.289	(0.999)	25434	0.39973	30
18 Chrysene	228	11.343	11.330	(1.002)	34679	0.58127	44
19 Benzo(b)fluoranthene	252	12.606	12.582	(0.958)	31597	0.66880	50
20 Benzo(k)fluoranthene	252	12.635	12.623	(0.961)	8550	0.17178	13
21 Benzo(a)pyrene	252	13.052	13.034	(0.992)	15293	0.32217	24
23 Indeno(1,2,3-cd)pyrene	276	14.727	14.709	(1.120)	7564	0.14944	11(MH)
24 Dibenzo(a,h)anthracene	278	14.750	14.732	(1.122)	2612	0.05480	4.1
25 Benzo(g,h,i)perylene	276	15.168	15.143	(1.153)	8349	0.17131	13

QC Flag Legend

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

Data File: 1DD22027.D

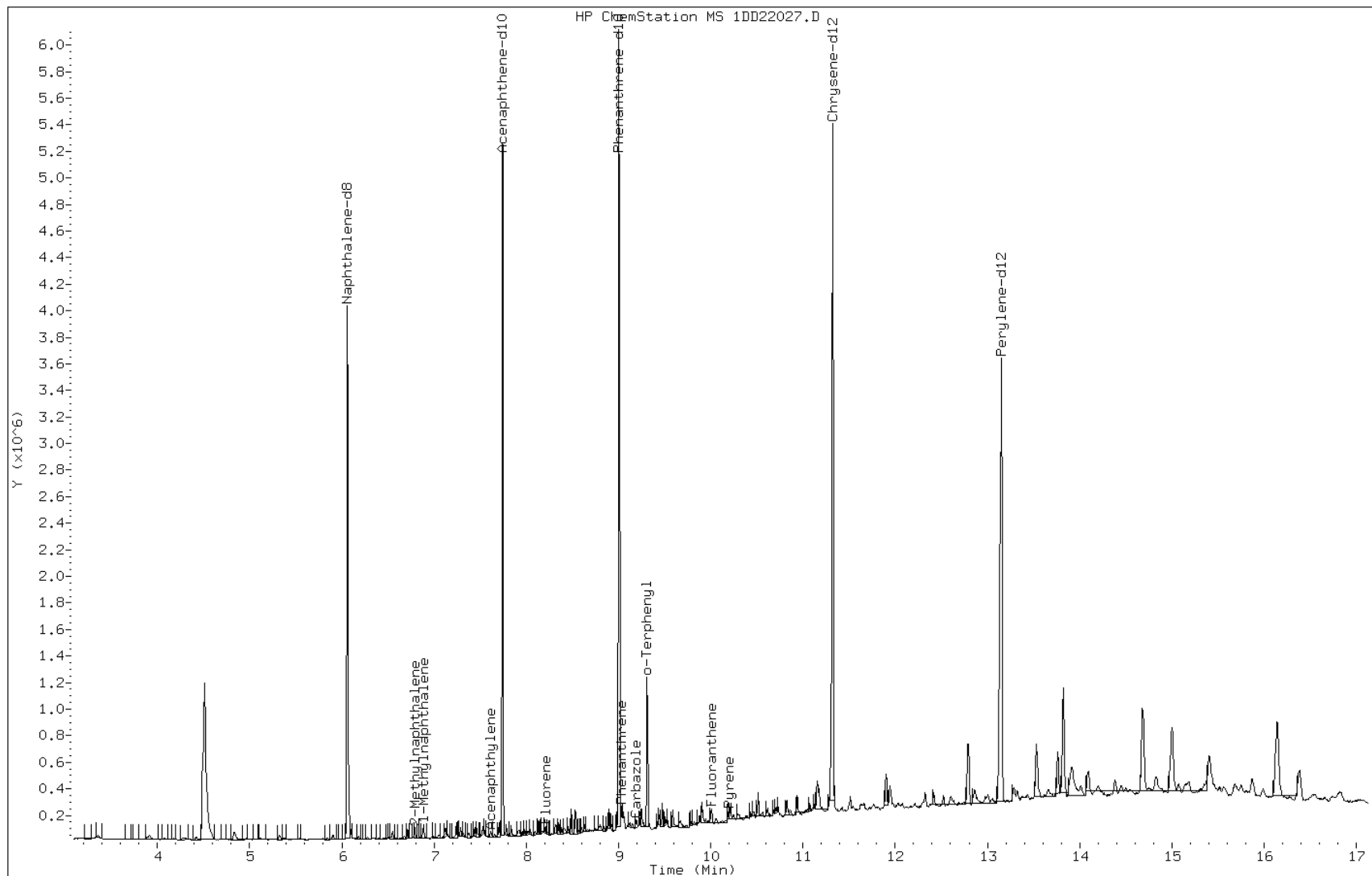
Date: 22-APR-2013 19:46

Client ID: CV0676B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89328-A-31-A

Operator: SCC



Data File: 1DD22027.D

Date: 22-APR-2013 19:46

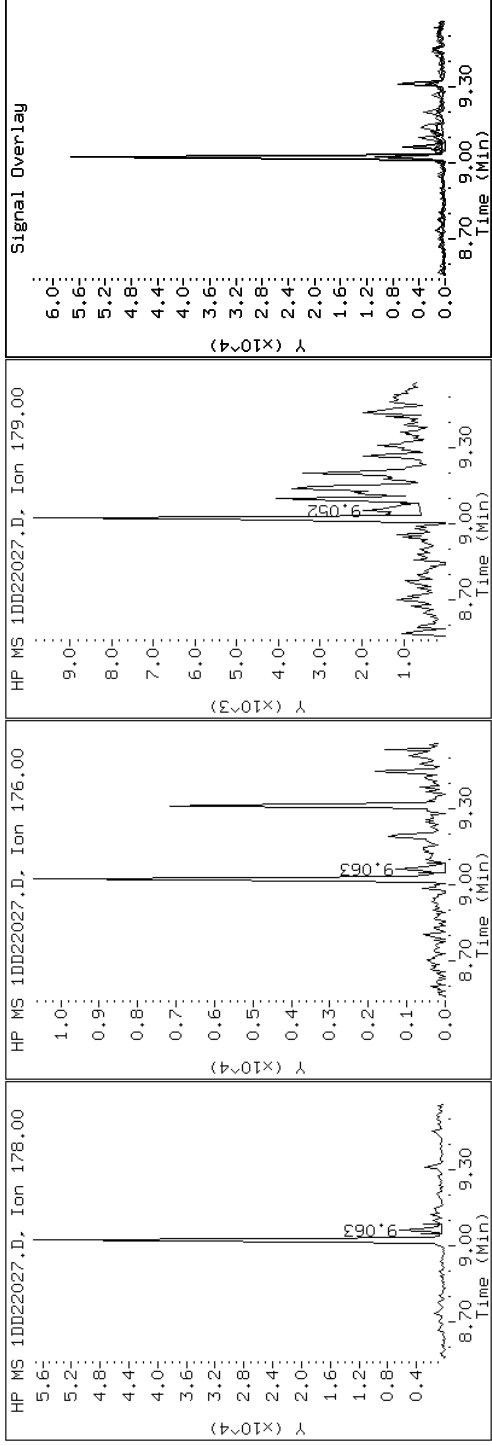
Client ID: CV0676B-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-31-A

Operator: SCC

11 Anthracene



Data File: 1DD22027.D

Date: 22-APR-2013 19:46

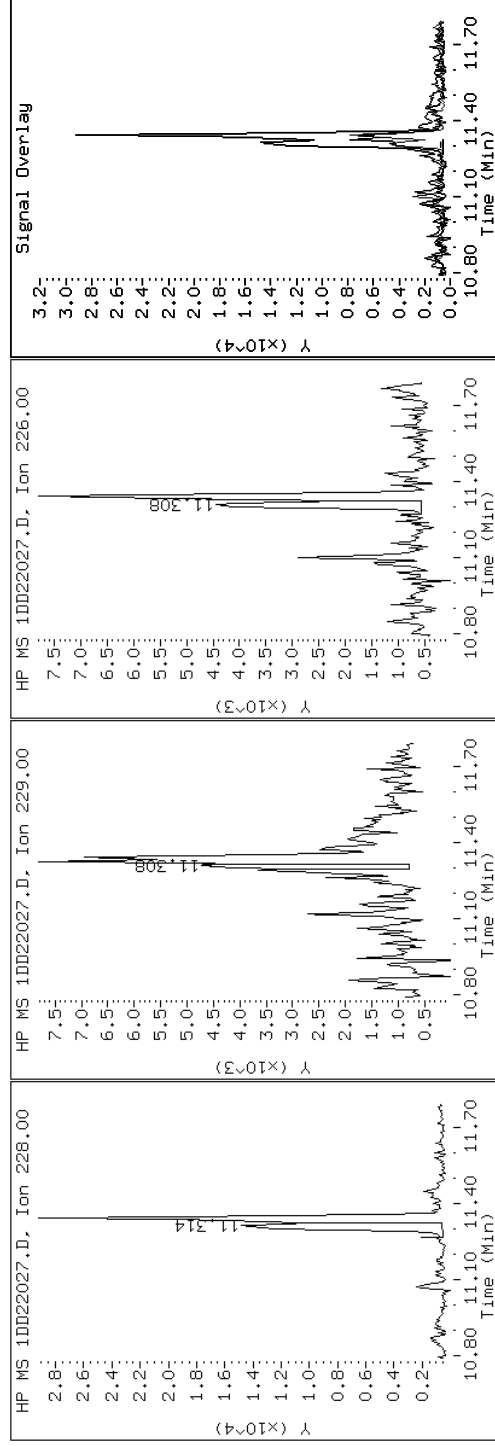
Client ID: CV0676B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89328-A-31-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD22027.D

Date: 22-APR-2013 19:46

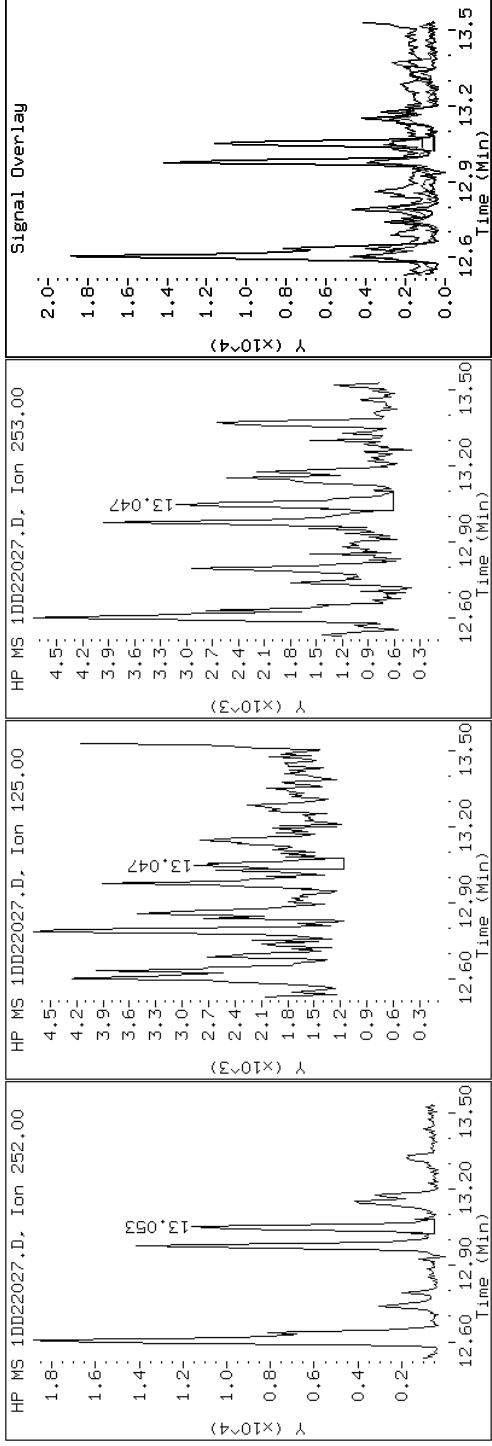
Client ID: CV0676B-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-31-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD22027.D

Date: 22-APR-2013 19:46

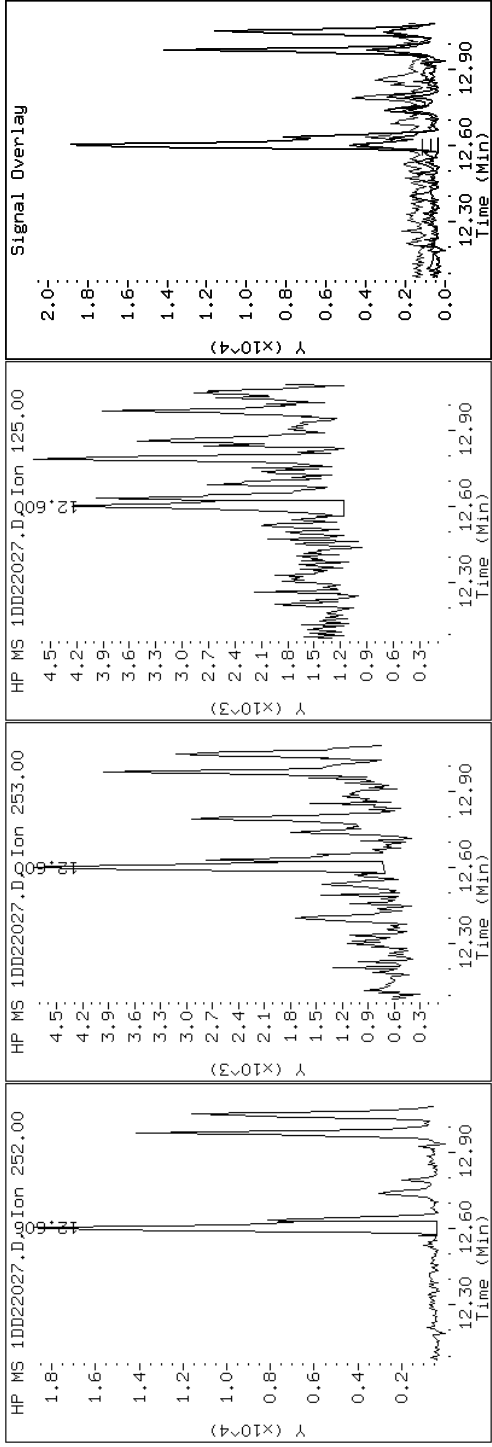
Client ID: CV0676B-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-31-A

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD22027.D

Date: 22-APR-2013 19:46

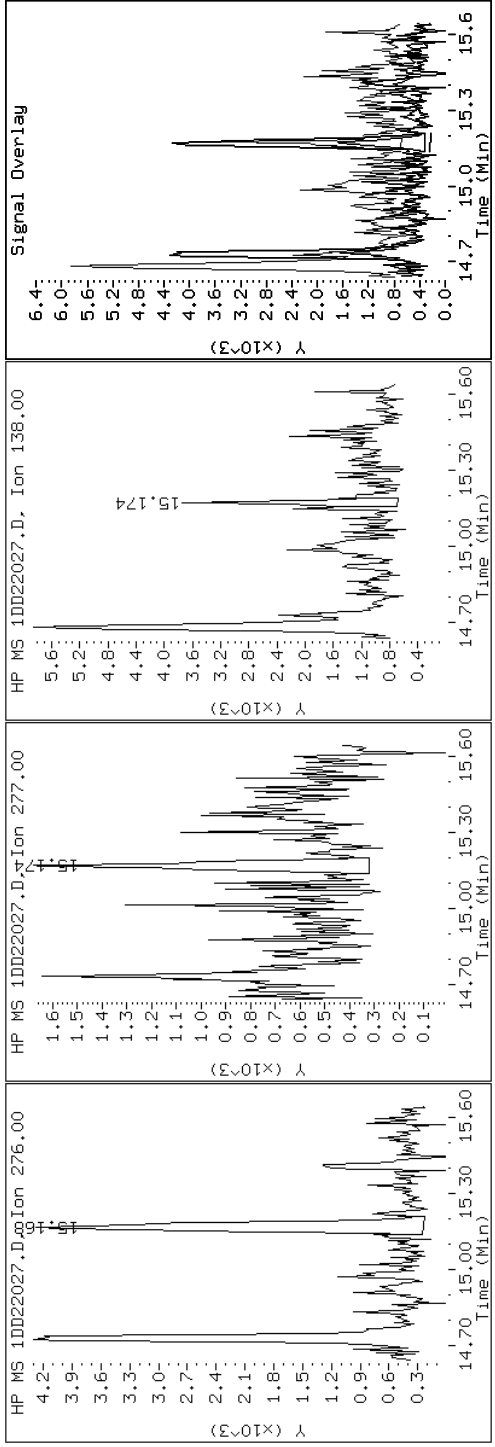
Client ID: CV0676B-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-31-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD22027.D

Date: 22-APR-2013 19:46

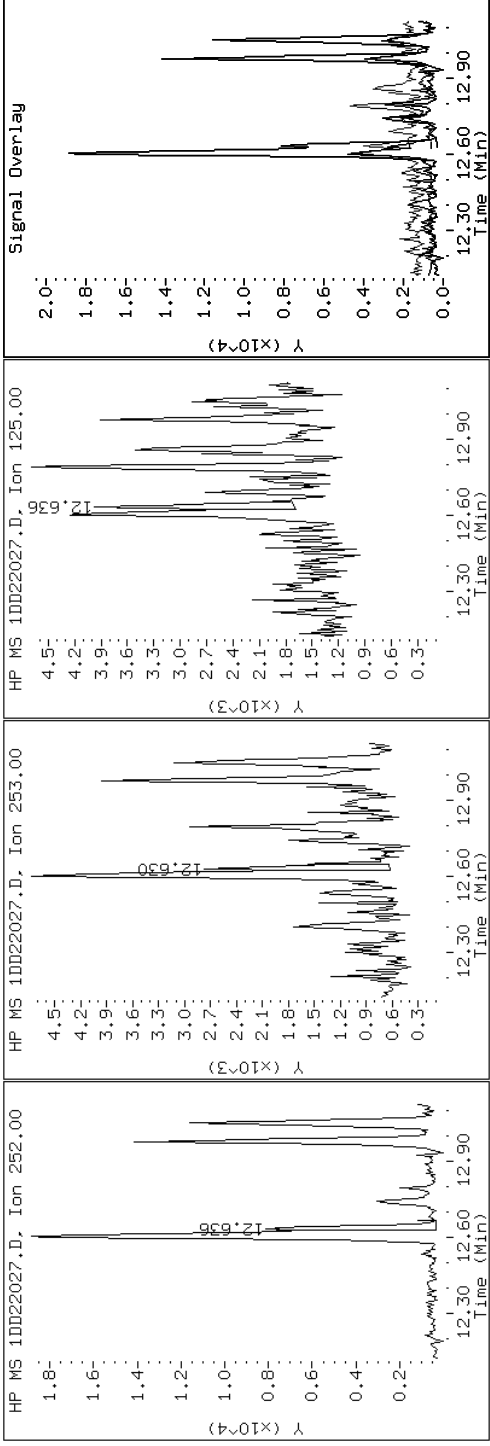
Client ID: CV0676B-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-31-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD22027.D

Date: 22-APR-2013 19:46

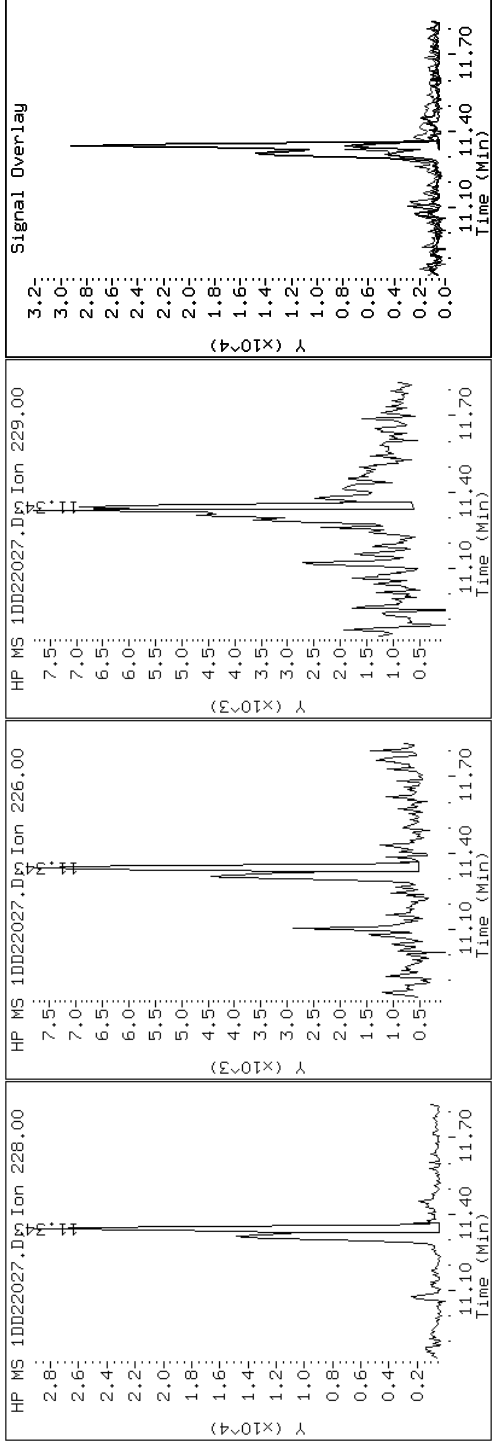
Client ID: CV0676B-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-31-A

Operator: SCC

18 Chrysene



Data File: 1DD22027.D

Date: 22-APR-2013 19:46

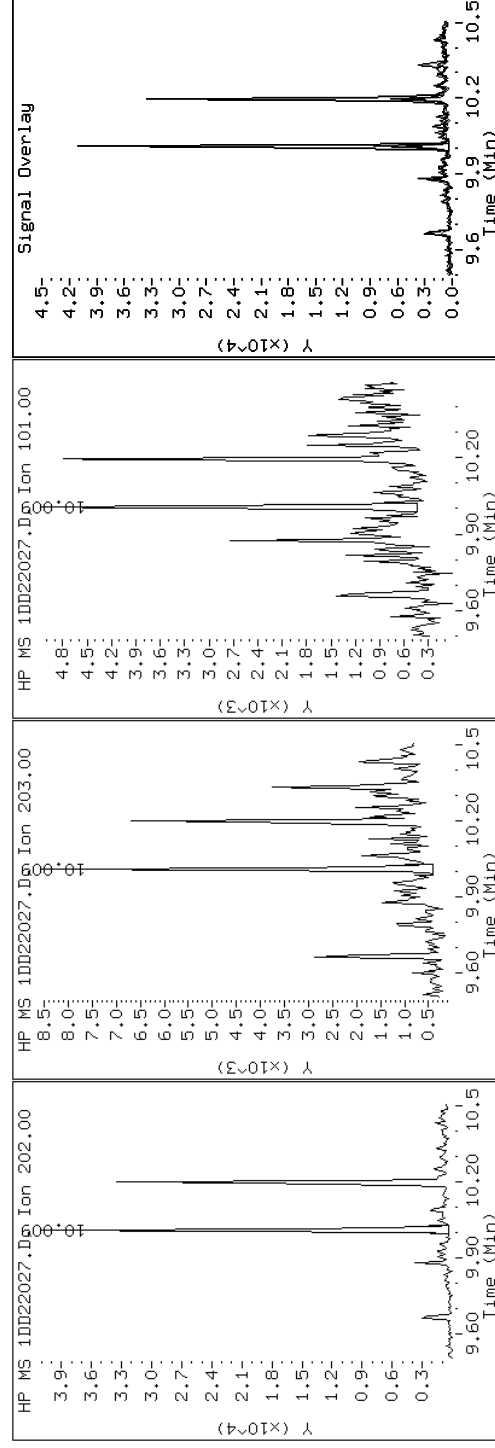
Client ID: CV0676B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89328-A-31-A

Operator: SCC

14 Fluoranthene



Data File: 1DD22027.D

Date: 22-APR-2013 19:46

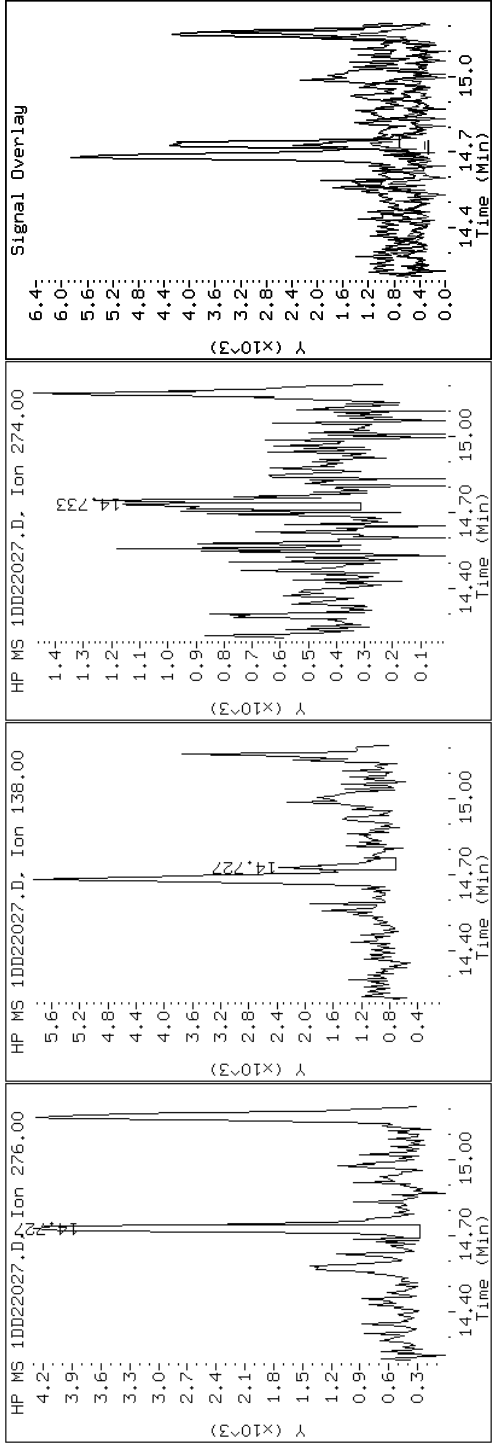
Client ID: CV0676B-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-31-A

Operator: SCC

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



Data File: 1DD22027.D

Date: 22-APR-2013 19:46

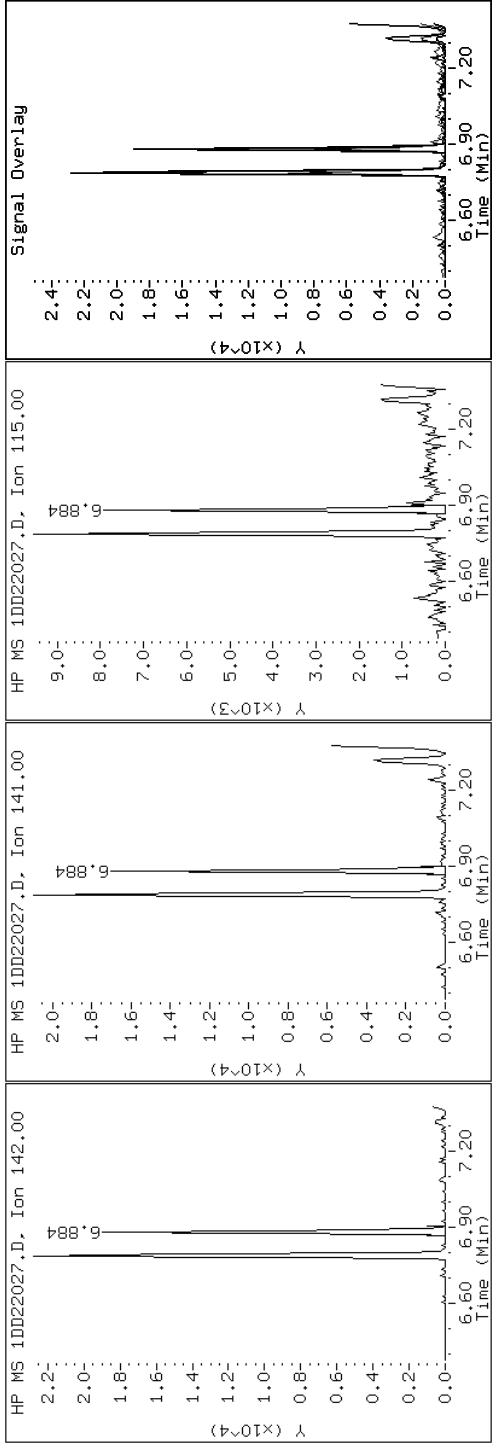
Client ID: CV0676B-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-31-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD22027.D

Date: 22-APR-2013 19:46

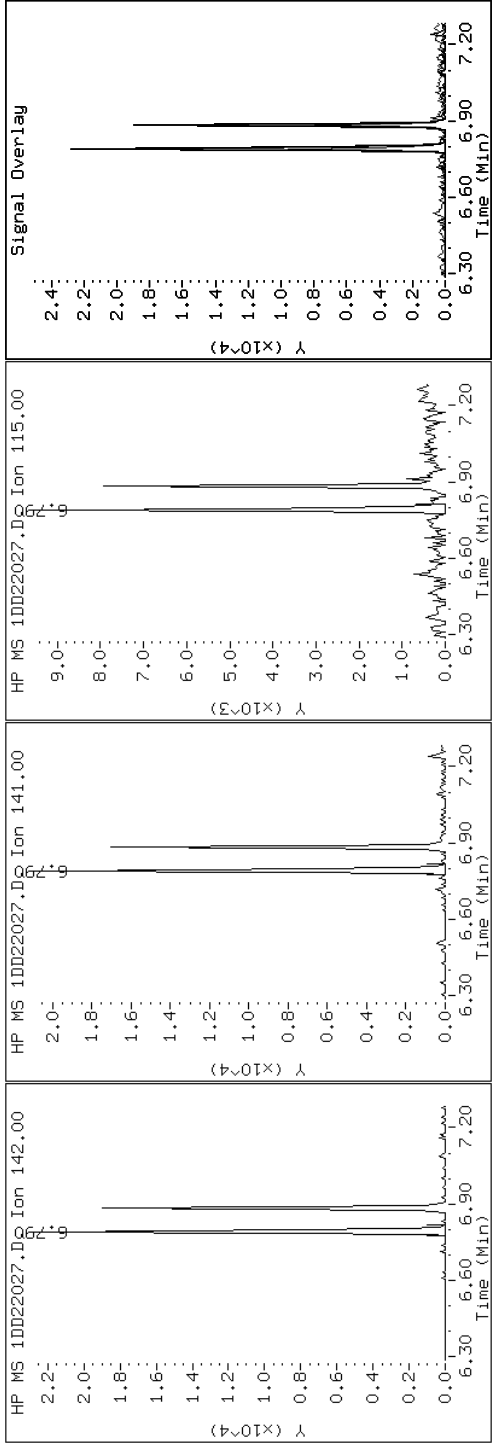
Client ID: CV0676B-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-31-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD22027.D

Date: 22-APR-2013 19:46

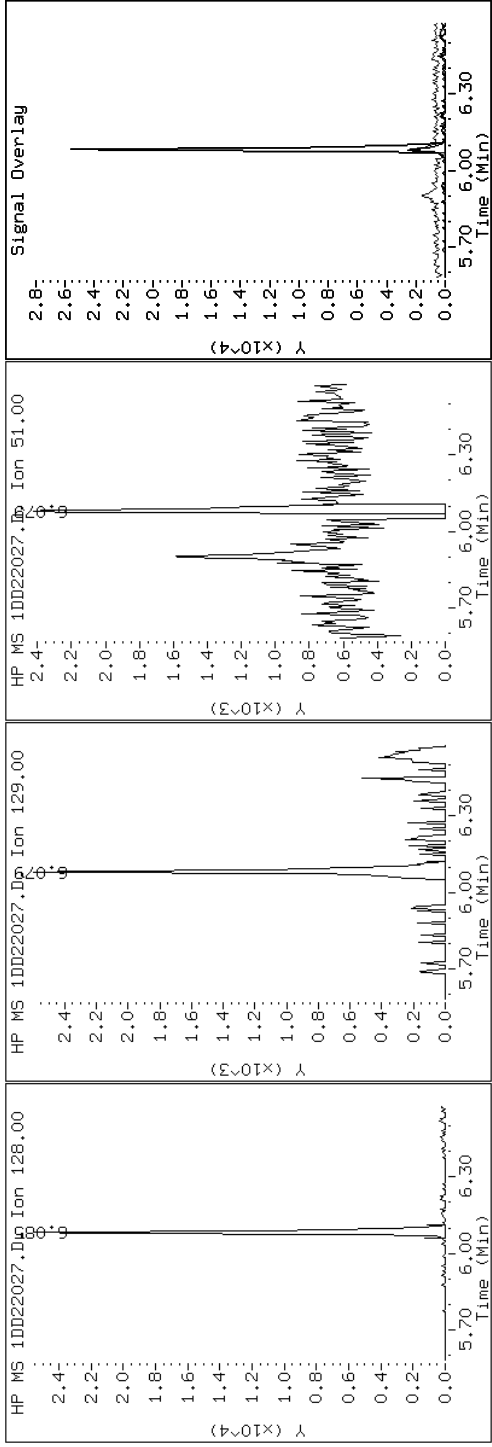
Client ID: CV0676B-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-31-A

Operator: SCC

2 Naphthalene



Data File: 1DD22027.D

Date: 22-APR-2013 19:46

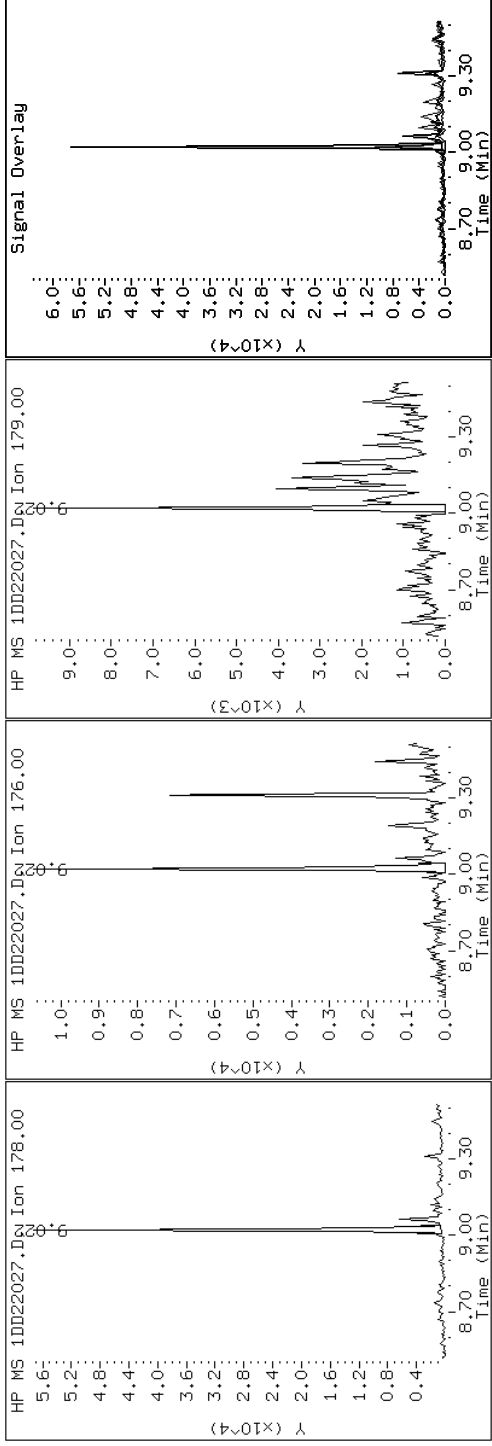
Client ID: CV0676B-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-31-A

Operator: SCC

10 Phenanthrene



Data File: 1DD22027.D

Date: 22-APR-2013 19:46

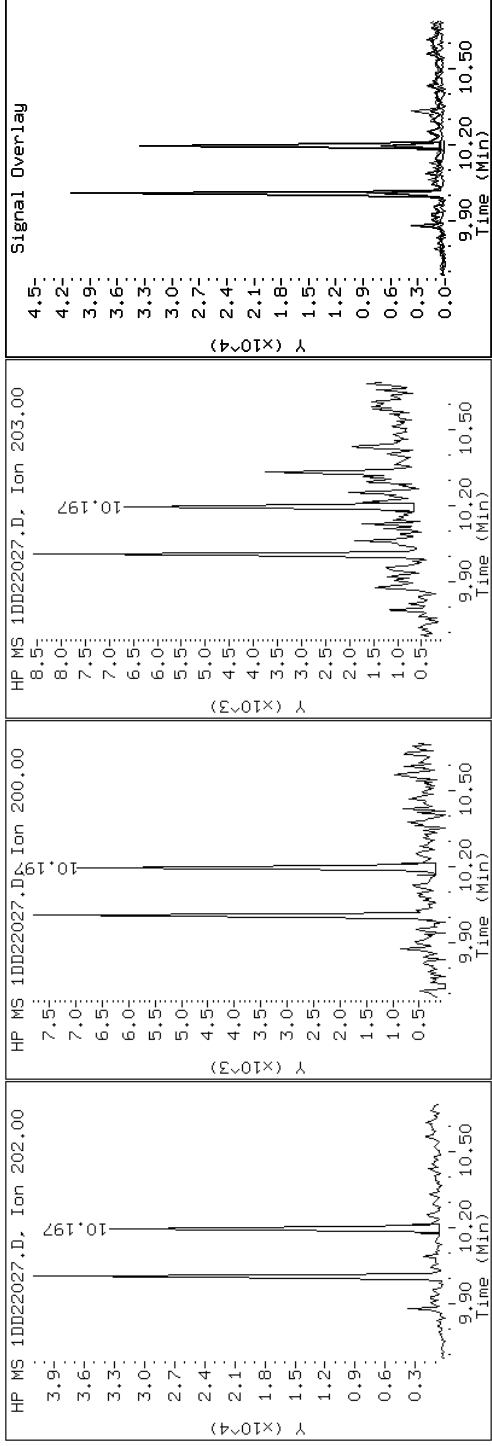
Client ID: CV0676B-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-31-A

Operator: SCC

15 Pyrene

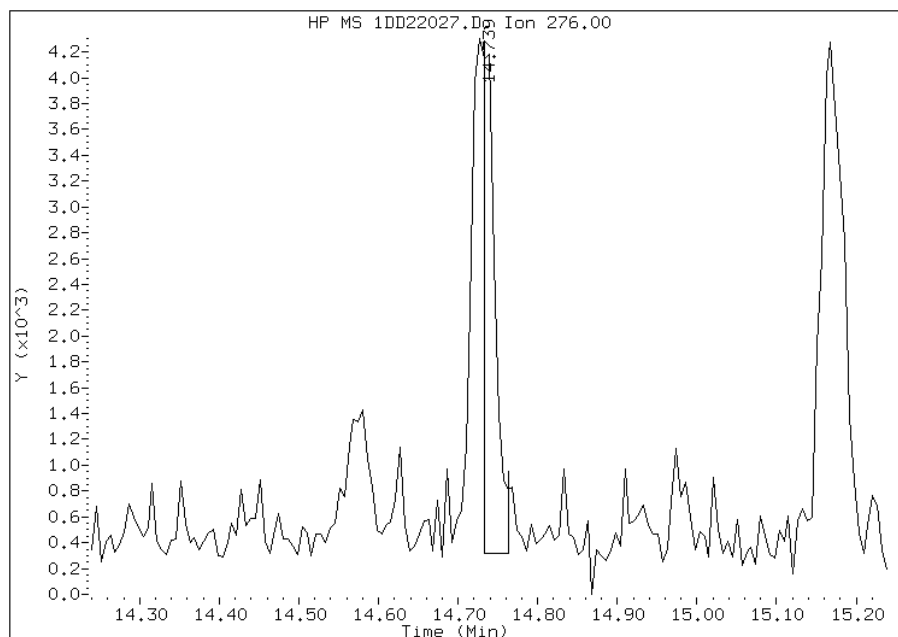


Manual Integration Report

Data File: 1DD22027.D
Inj. Date and Time: 22-APR-2013 19:46
Instrument ID: BSMSD.i
Client ID: CV0676B-CS-SP
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

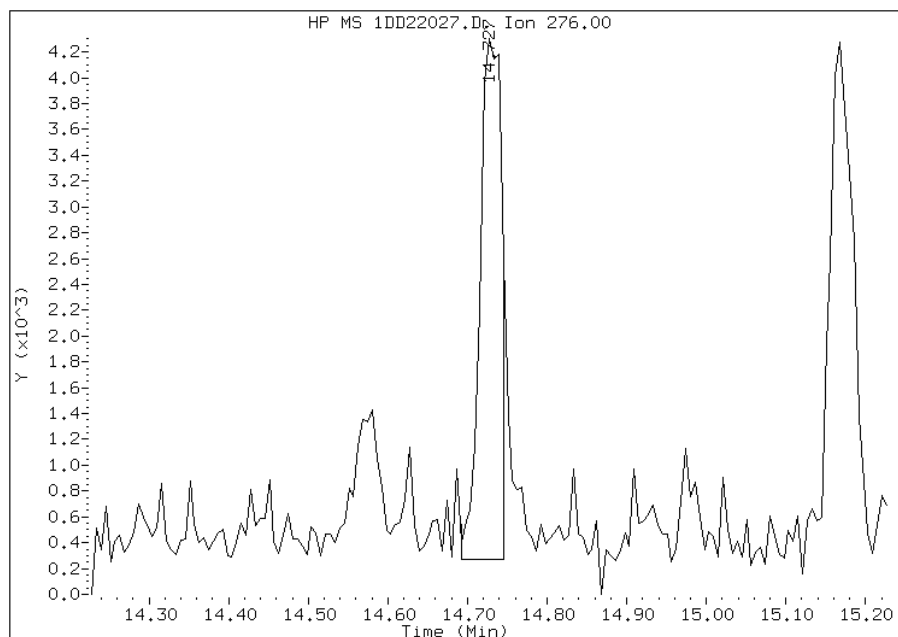
Processing Integration Results

RT: 14.74
Response: 4253
Amount: 0
Conc: 6



Manual Integration Results

RT: 14.73
Response: 7564
Amount: 0
Conc: 11



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 11:00
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 Client Sample ID: CV0676C-CS-SP Lab Sample ID: 680-89328-32
 Matrix: Solid Lab File ID: 1DD22028.D
 Analysis Method: 8270C LL Date Collected: 04/12/2013 09:18
 Extract. Method: 3546 Date Extracted: 04/18/2013 15:43
 Sample wt/vol: 15.00(g) Date Analyzed: 04/22/2013 20:09
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 29.3 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136733 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	13	J	57	7.1
120-12-7	Anthracene	30		12	5.9
56-55-3	Benzo[a]anthracene	94		11	5.5
50-32-8	Benzo[a]pyrene	96		15	7.4
205-99-2	Benzo[b]fluoranthene	200		17	8.6
191-24-2	Benzo[g,h,i]perylene	52		28	6.2
207-08-9	Benzo[k]fluoranthene	63		11	5.1
218-01-9	Chrysene	170		13	6.4
53-70-3	Dibenz(a,h)anthracene	23	J	28	5.8
206-44-0	Fluoranthene	180		28	5.7
86-73-7	Fluorene	11	J	28	5.8
193-39-5	Indeno[1,2,3-cd]pyrene	45		28	10
90-12-0	1-Methylnaphthalene	77		57	6.2
91-57-6	2-Methylnaphthalene	100		57	10
91-20-3	Naphthalene	110		57	6.2
85-01-8	Phenanthrene	180		11	5.5
129-00-0	Pyrene	110		28	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	63		30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22028.D
 Lab Smp Id: 680-89328-A-32-A Client Smp ID: CV0676C-CS-SP
 Inj Date : 22-APR-2013 20:09
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89328-A-32-A
 Misc Info : 680-89328-A-32-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
 Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 28
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	29.310	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.063	6.054	(1.000)	1952473	40.0000	
* 6 Acenaphthene-d10	164		7.743	7.734	(1.000)	1144993	40.0000	
* 9 Phenanthrene-d10	188		9.007	8.998	(1.000)	1888620	40.0000	
\$ 13 o-Terphenyl	230		9.312	9.309	(1.034)	179266	6.29964	590
* 17 Chrysene-d12	240		11.322	11.307	(1.000)	2286858	40.0000	
* 22 Perylene-d12	264		13.155	13.122	(1.000)	1885464	40.0000	
2 Naphthalene	128		6.081	6.077	(1.003)	56735	1.16908	110
3 2-Methylnaphthalene	142		6.792	6.783	(1.120)	33343	1.06434	100
4 1-Methylnaphthalene	142		6.880	6.877	(1.135)	24122	0.81537	77
5 Acenaphthylene	152		7.614	7.611	(0.983)	6491	0.13394	13
8 Fluorene	166		8.214	8.204	(1.061)	3991	0.11267	11(Q)
10 Phenanthrene	178		9.024	9.015	(1.002)	99127	1.90550	180
11 Anthracene	178		9.065	9.056	(1.007)	16578	0.32108	30
12 Carbazole	167		9.206	9.197	(1.022)	12103	0.26575	25

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.011	10.002	(1.112)	100842	1.88375	180
15 Pyrene	202	10.194	10.184	(0.900)	81868	1.19212	110
16 Benzo(a)anthracene	228	11.310	11.289	(0.999)	66103	0.99978	94
18 Chrysene	228	11.345	11.330	(1.002)	114583	1.84827	170
19 Benzo(b)fluoranthene	252	12.602	12.582	(0.958)	97492	2.06992	200
20 Benzo(k)fluoranthene	252	12.638	12.623	(0.961)	32950	0.66406	63
21 Benzo(a)pyrene	252	13.049	13.034	(0.992)	48033	1.01498	96
23 Indeno(1,2,3-cd)pyrene	276	14.735	14.709	(1.120)	23891	0.47345	45(M)
24 Dibenzo(a,h)anthracene	278	14.753	14.732	(1.121)	11559	0.24325	23
25 Benzo(g,h,i)perylene	276	15.176	15.143	(1.154)	26611	0.54770	52

QC Flag Legend

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

Data File: 1DD22028.D

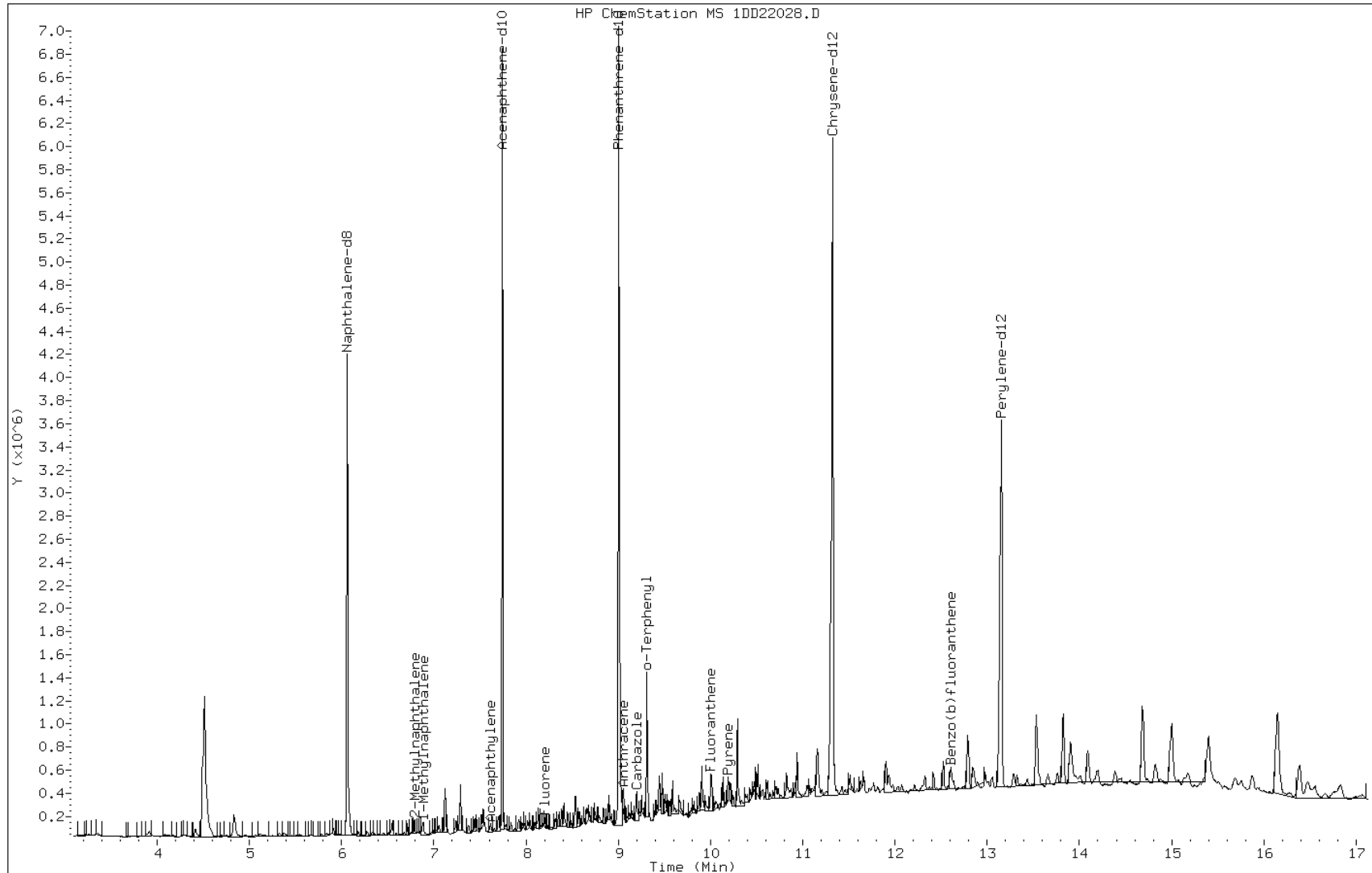
Date: 22-APR-2013 20:09

Client ID: CV0676C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89328-A-32-A

Operator: SCC



Data File: 1DD22028.D

Date: 22-APR-2013 20:09

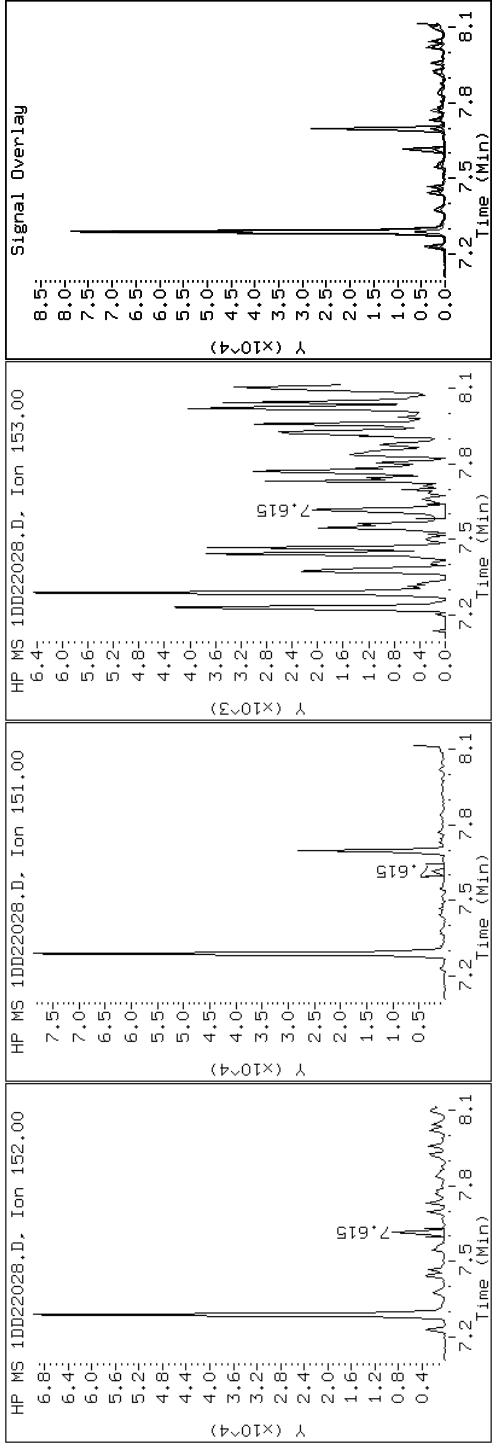
Client ID: CV0676C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89328-A-32-A

Operator: SCC

5 Acenaphthylene



Data File: 1DD22028.D

Date: 22-APR-2013 20:09

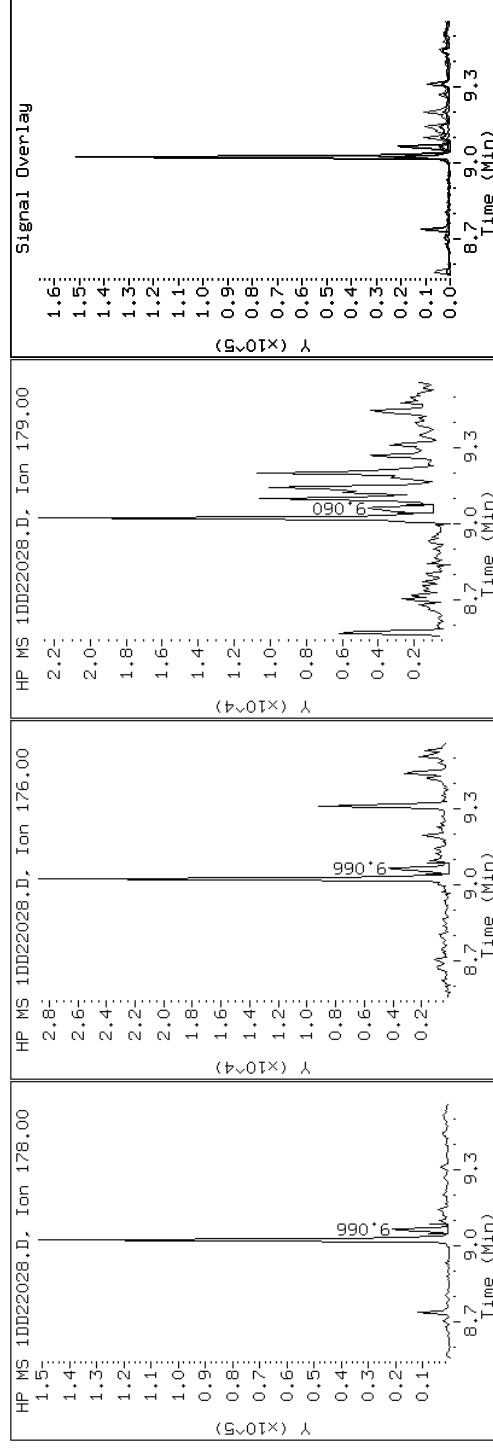
Client ID: CV0676C-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-32-A

Operator: SCC

11 Anthracene



Data File: 1DD22028.D

Date: 22-APR-2013 20:09

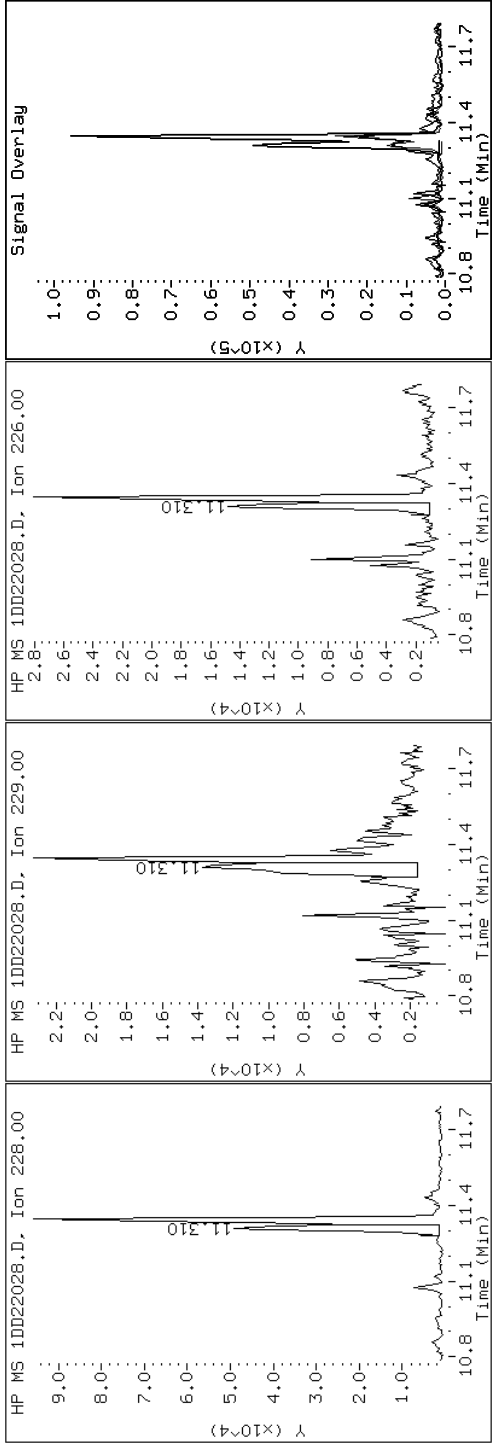
Client ID: CV0676C-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-32-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD22028.D

Date: 22-APR-2013 20:09

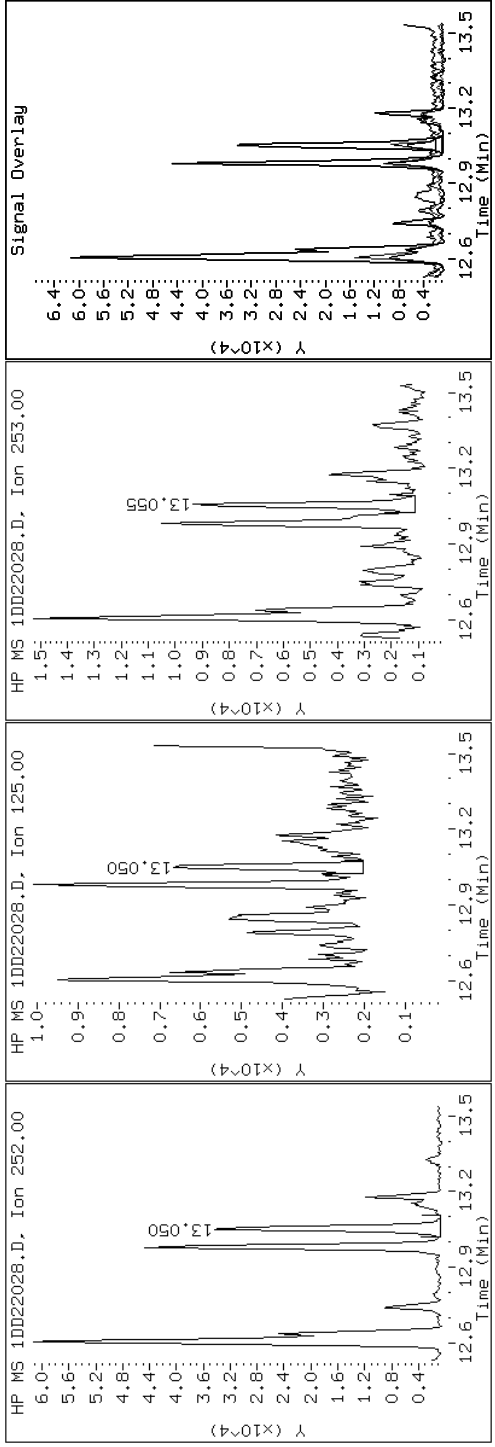
Client ID: CV0676C-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-32-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD22028.D

Date: 22-APR-2013 20:09

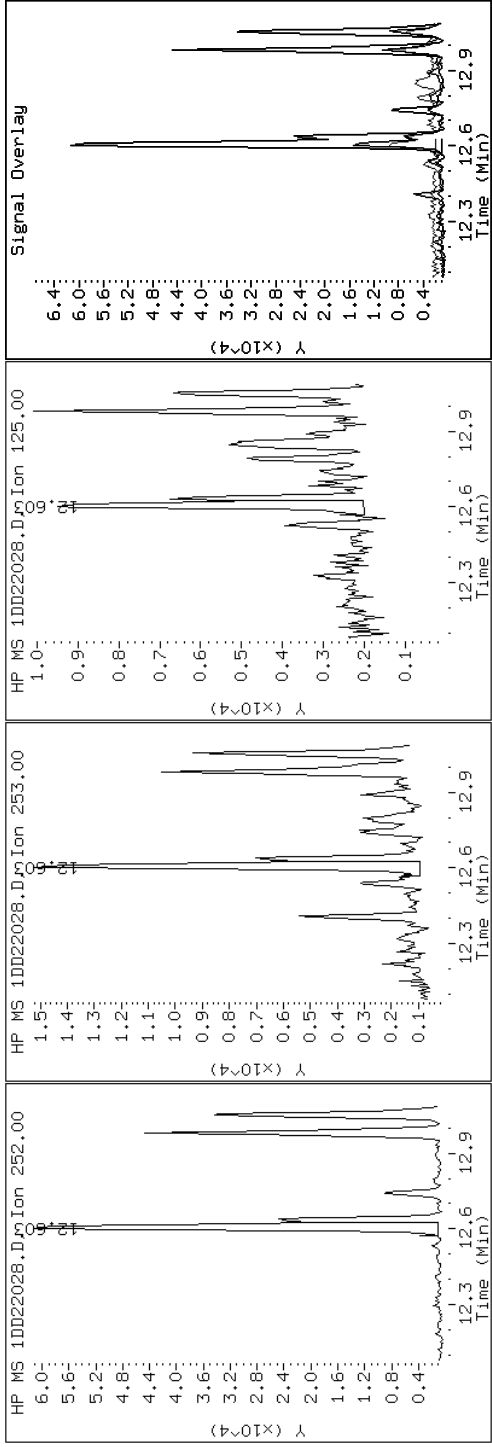
Client ID: CV0676C-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-32-A

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD22028.D

Date: 22-APR-2013 20:09

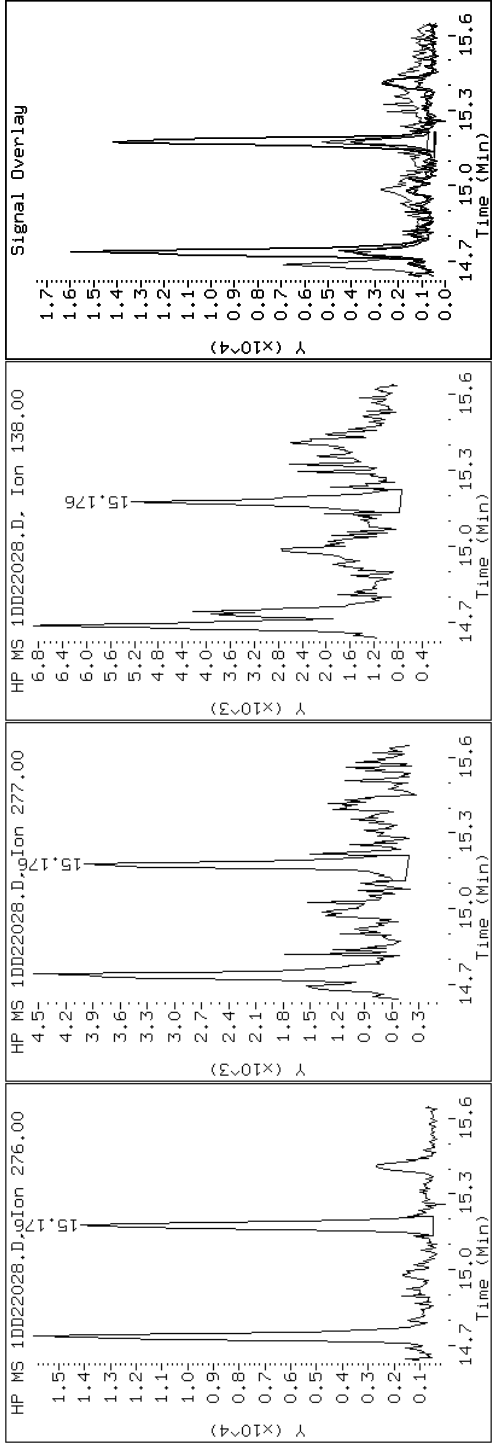
Client ID: CV0676C-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-32-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD22028.D

Date: 22-APR-2013 20:09

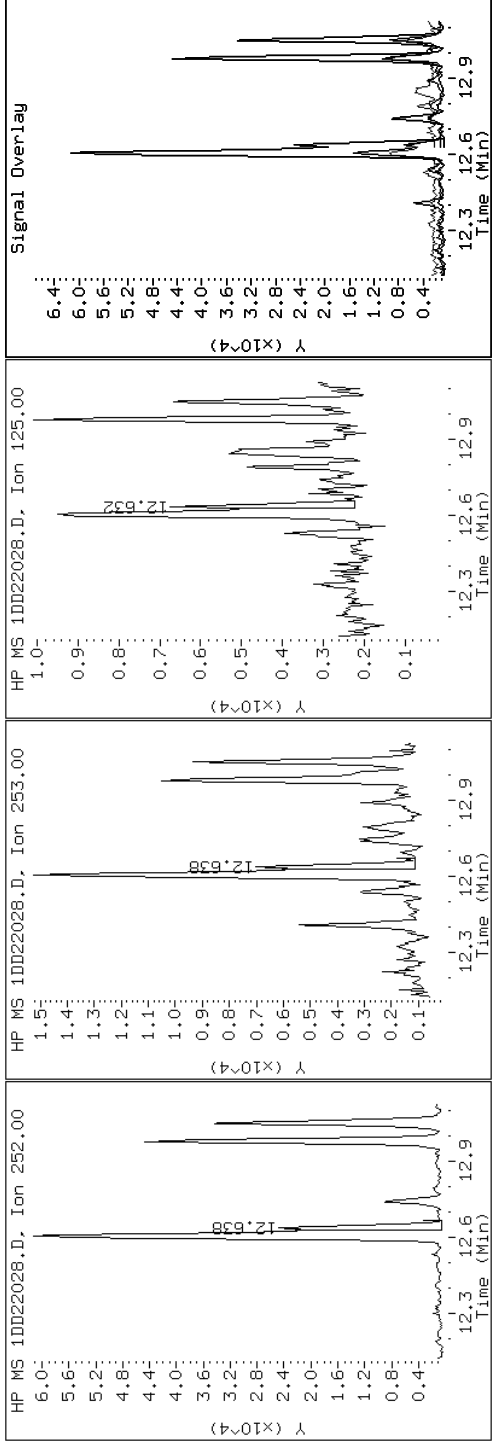
Client ID: CV0676C-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-32-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD22028.D

Date: 22-APR-2013 20:09

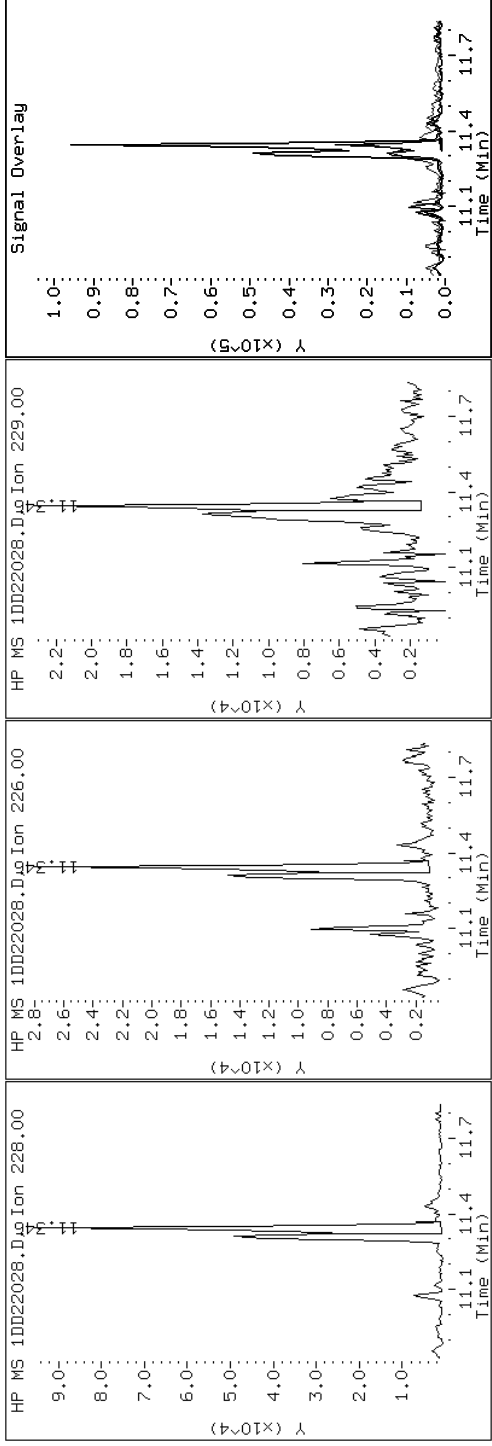
Client ID: CV0676C-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-32-A

Operator: SCC

18 Chrysene



Data File: 1DD22028.D

Date: 22-APR-2013 20:09

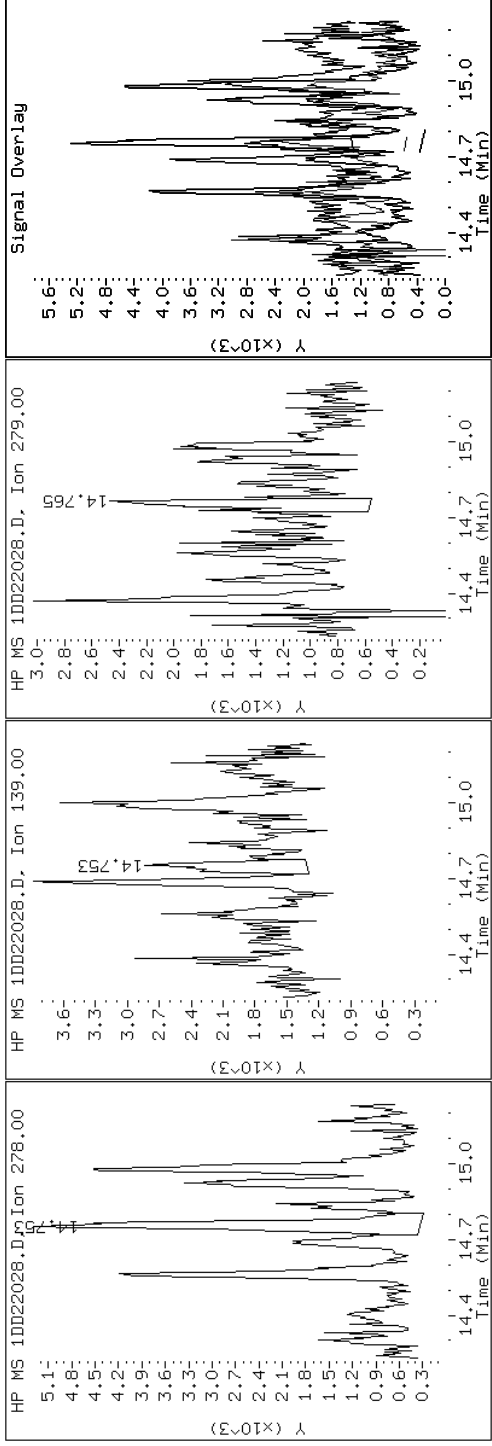
Client ID: CV0676C-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-32-A

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD22028.D

Date: 22-APR-2013 20:09

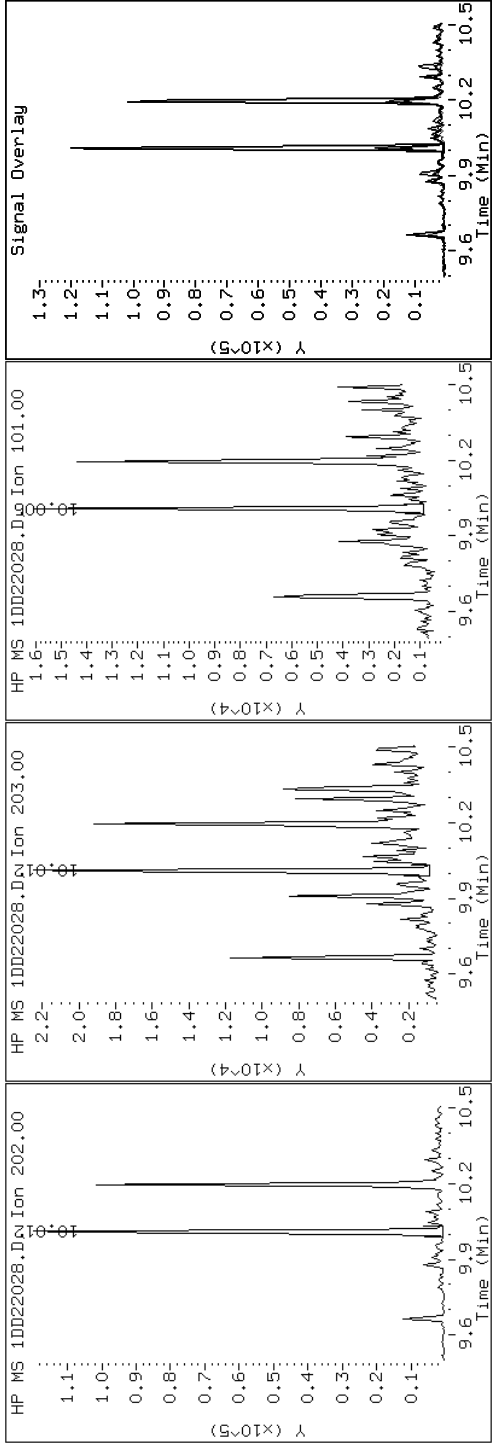
Client ID: CV0676C-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-32-A

Operator: SCC

14 Fluoranthene



Data File: 1DD22028.D

Date: 22-APR-2013 20:09

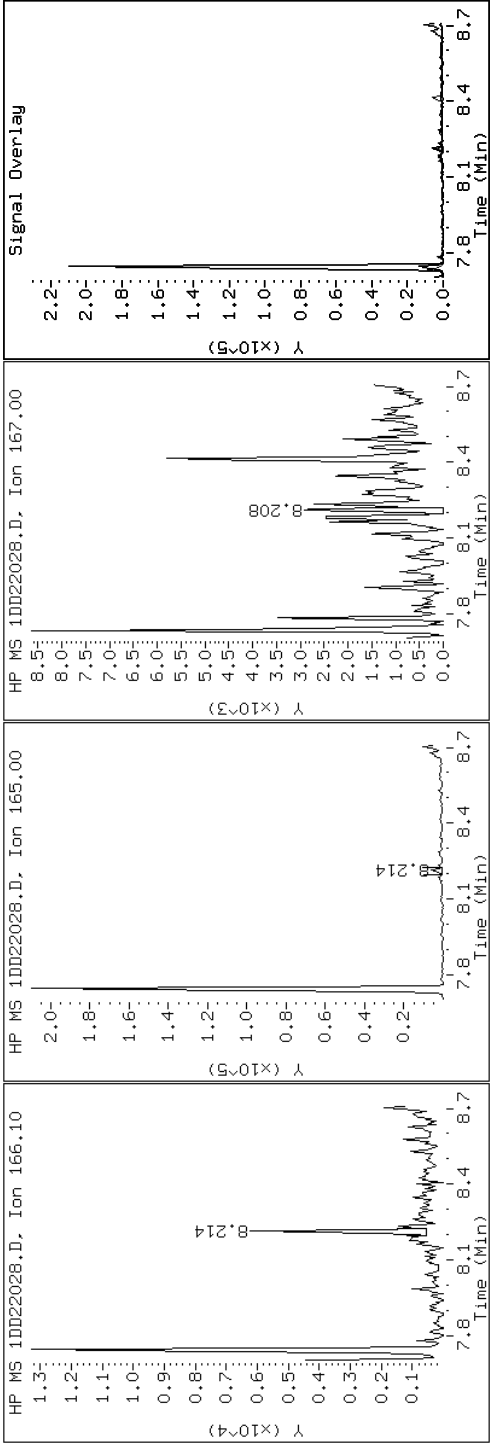
Client ID: CV0676C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89328-A-32-A

Operator: SCC

8 Fluorene



Data File: 1DD22028.D

Date: 22-APR-2013 20:09

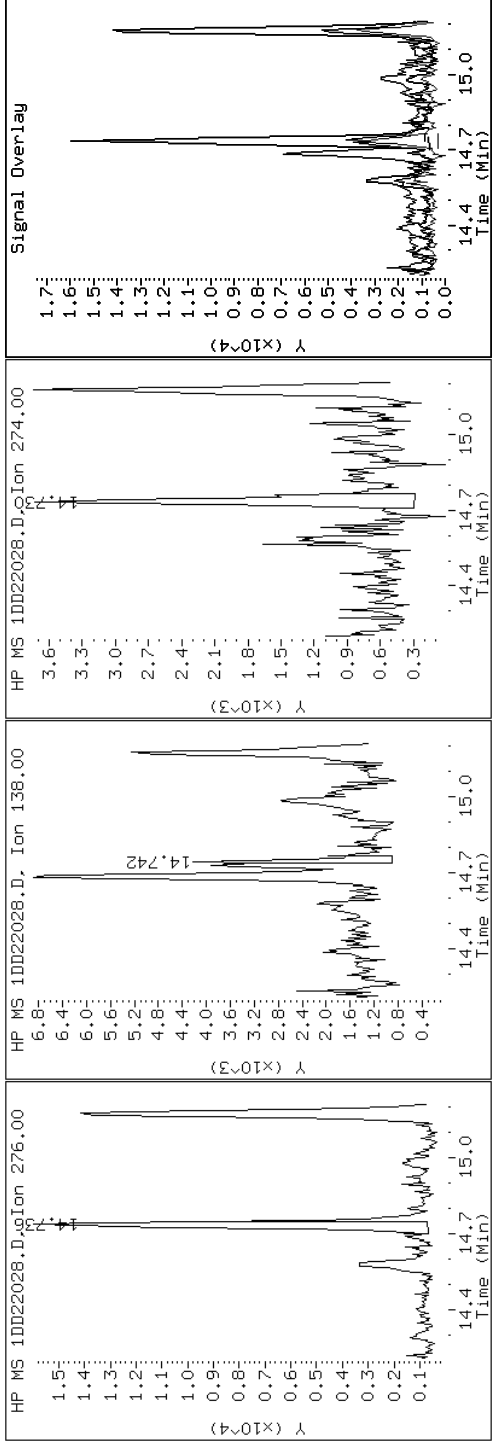
Client ID: CV0676C-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-32-A

Operator: SCC

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



Data File: 1DD22028.D

Date: 22-APR-2013 20:09

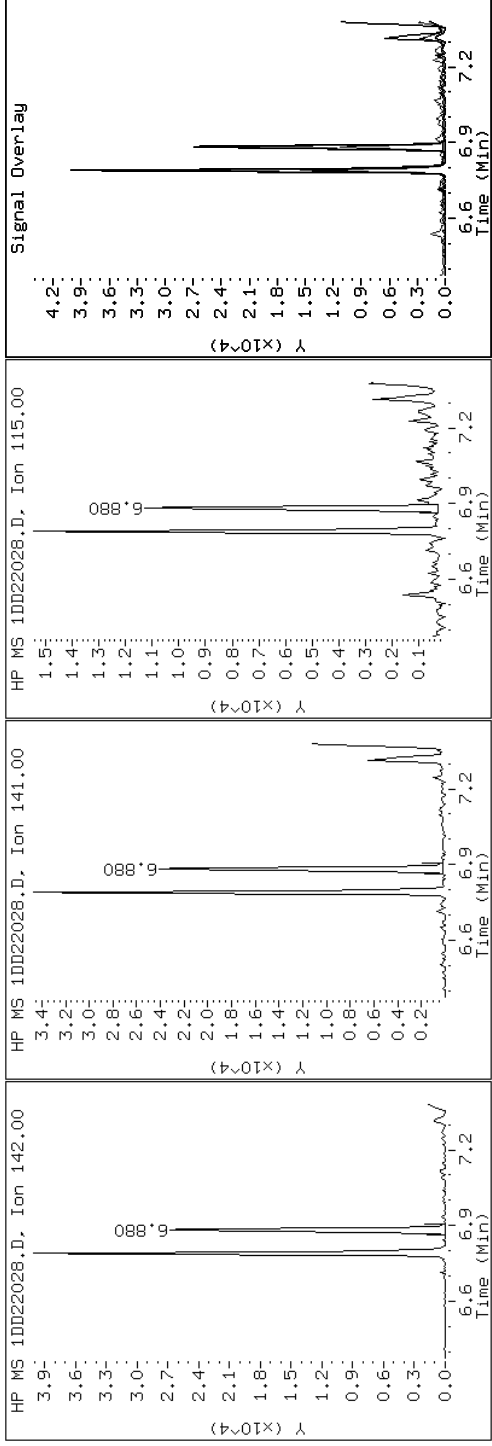
Client ID: CV0676C-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-32-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD22028.D

Date: 22-APR-2013 20:09

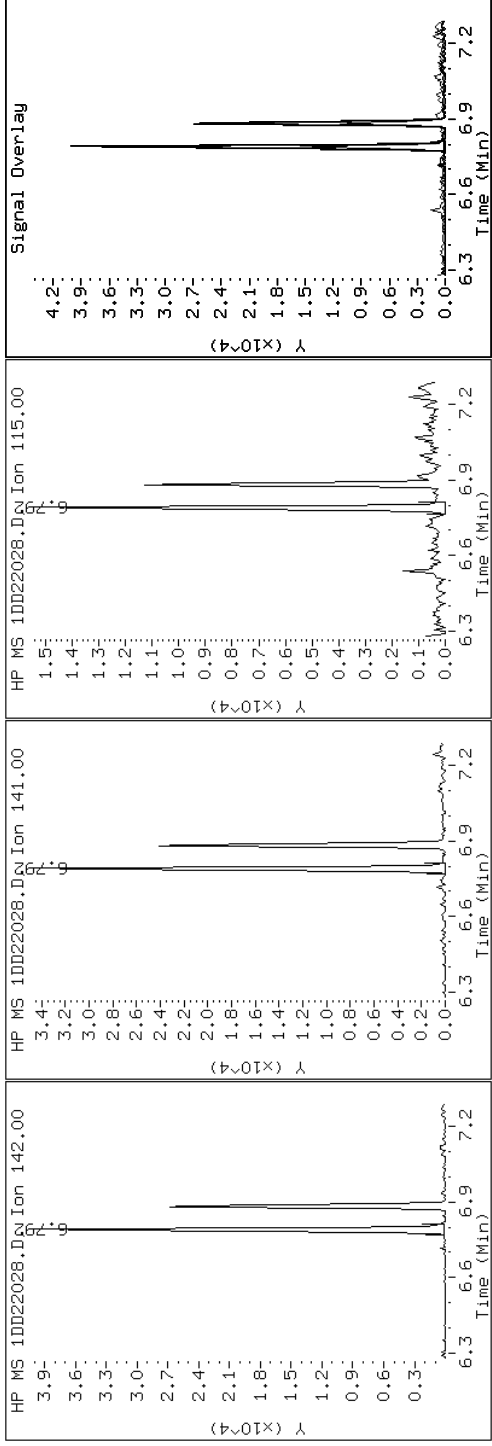
Client ID: CV0676C-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-32-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD22028.D

Date: 22-APR-2013 20:09

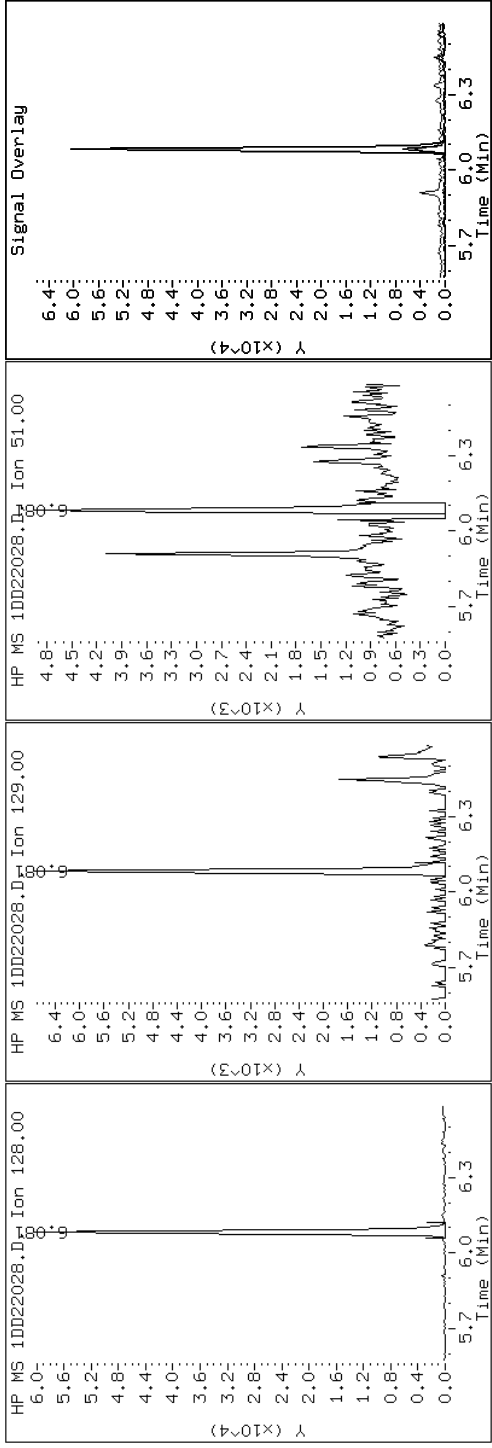
Client ID: CV0676C-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-32-A

Operator: SCC

2 Naphthalene



Data File: 1DD22028.D

Date: 22-APR-2013 20:09

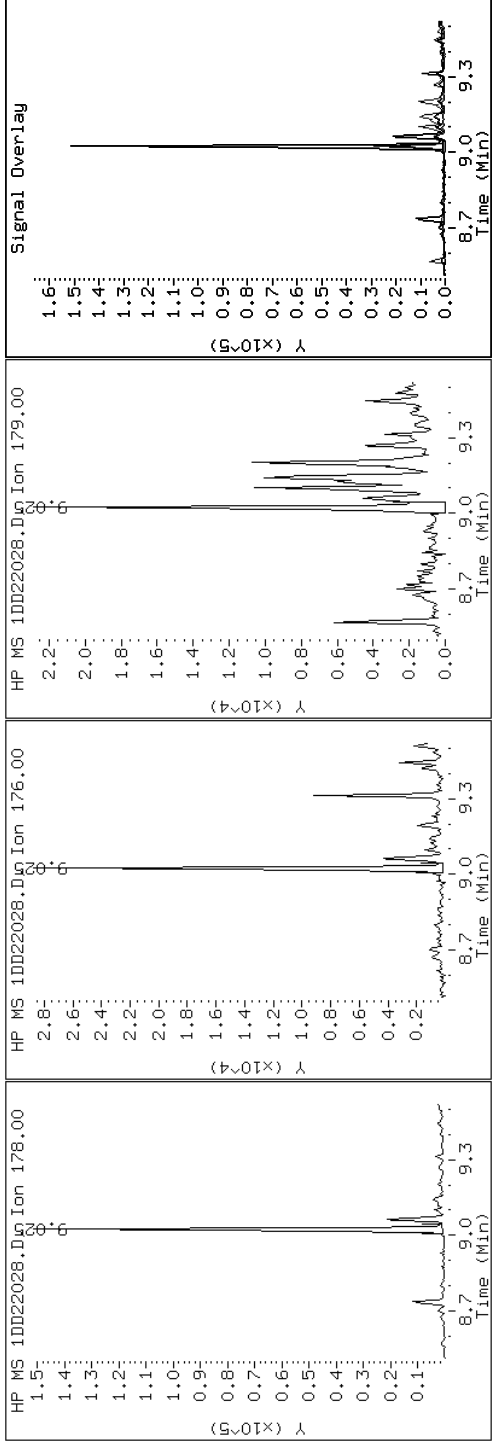
Client ID: CV0676C-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-32-A

Operator: SCC

10 Phenanthrene



Data File: 1DD22028.D

Date: 22-APR-2013 20:09

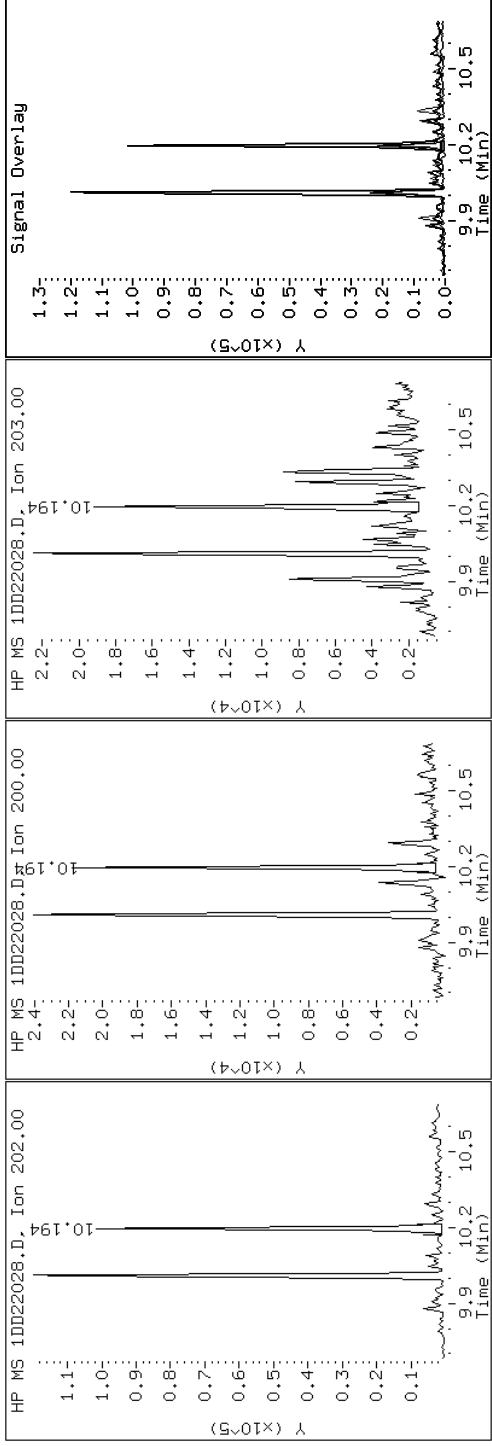
Client ID: CV0676C-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89328-A-32-A

Operator: SCC

15 Pyrene

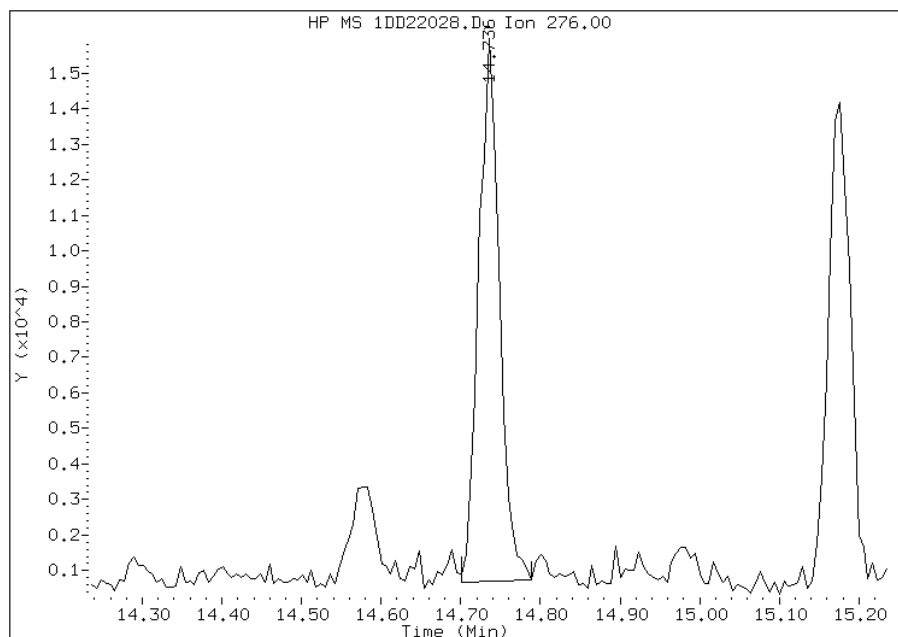


Manual Integration Report

Data File: 1DD22028.D
Inj. Date and Time: 22-APR-2013 20:09
Instrument ID: BSMSD.i
Client ID: CV0676C-CS-SP
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

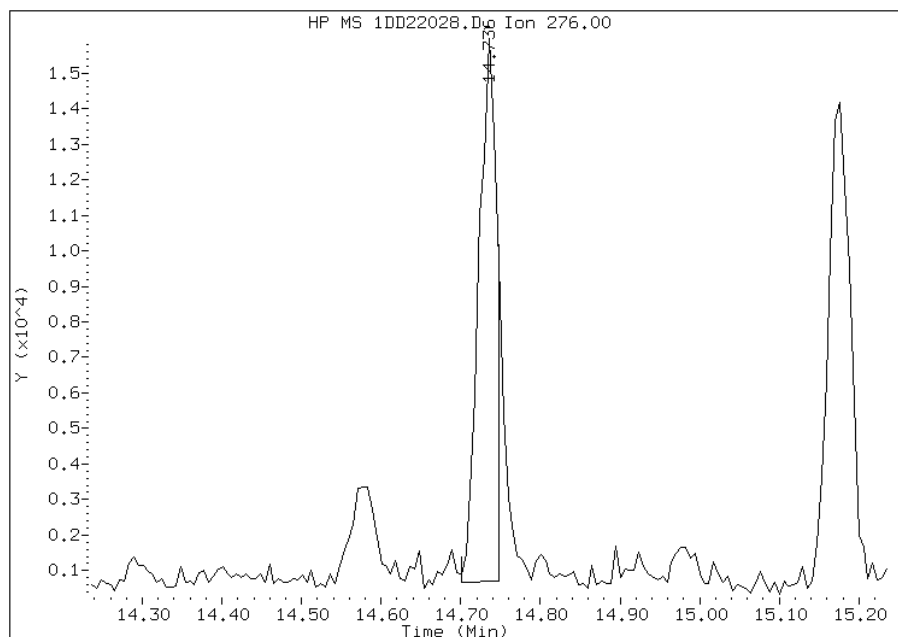
Processing Integration Results

RT: 14.74
Response: 27487
Amount: 1
Conc: 51



Manual Integration Results

RT: 14.74
Response: 23891
Amount: 0
Conc: 45



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

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

Lab Name: TestAmerica Tampa Job No.: 680-89328-2 Analy Batch No.: 136164

SDG No.: 68089328-2

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 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
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.: 680-89328-2 Analy Batch No.: 136164
 SDG No.: 68089328-2
 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 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
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.: 680-89328-2 Analy Batch No.: 136164

SDG No.: 68089328-2

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.: 680-89328-2 Analy Batch No.: 136164

SDG No.: 68089328-2

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

Semivolatiles 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

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
								CAL-AMT (ug/l)	ON-COL (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

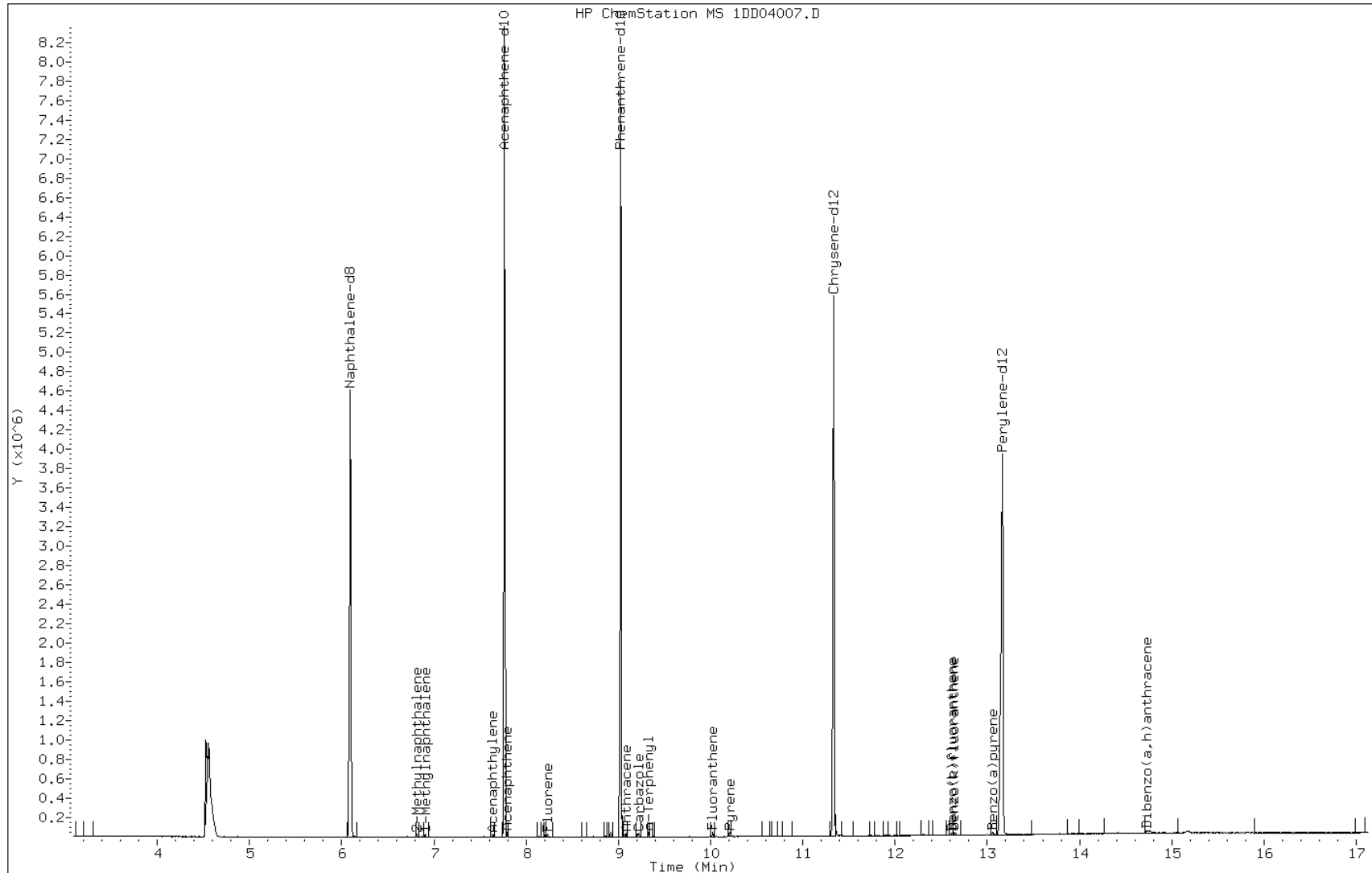
Date: 04-APR-2013 13:49

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531396

Operator: SCC

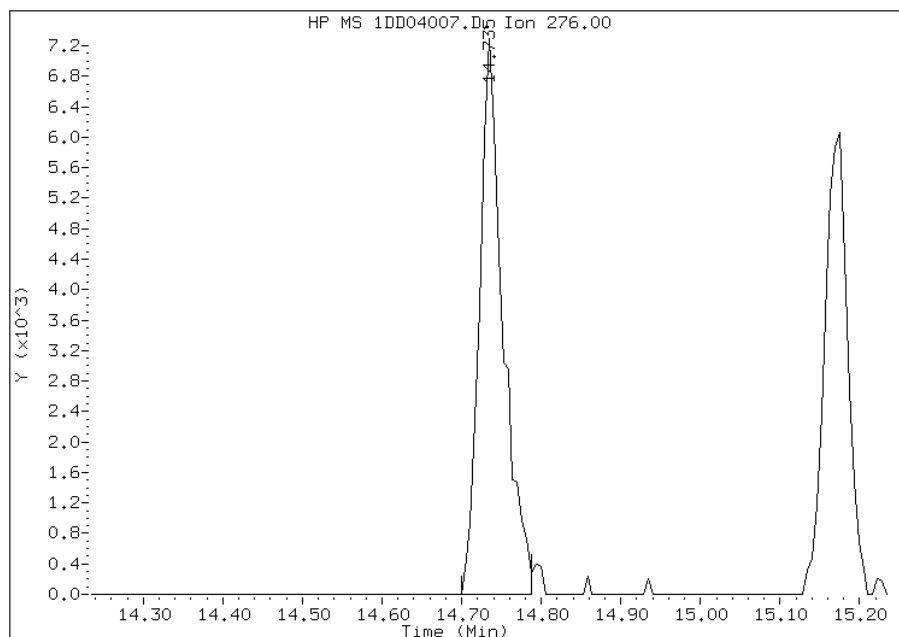


Manual Integration Report

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

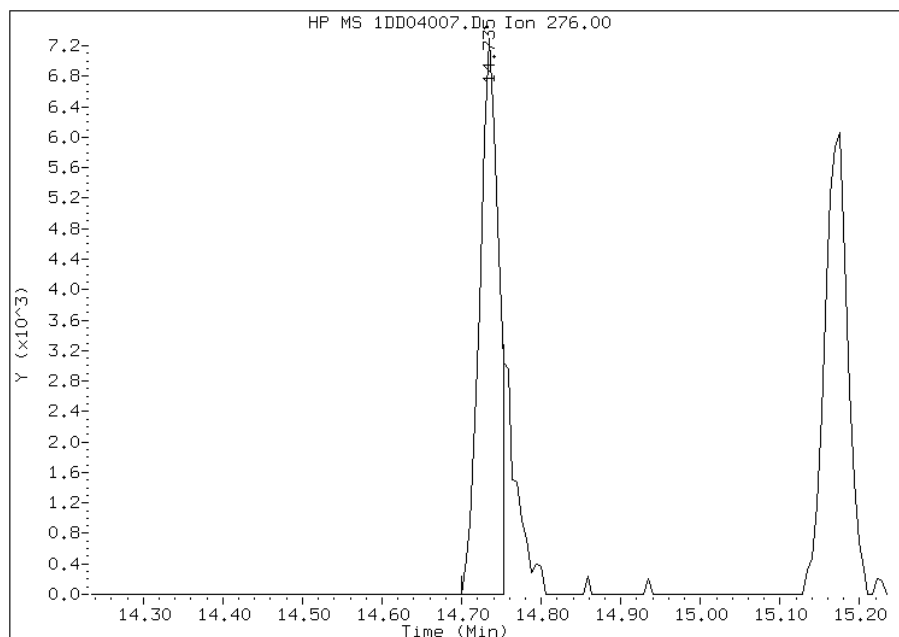
Processing Integration Results

RT: 14.73
Response: 14910
Amount: 0
Conc: 0



Manual Integration Results

RT: 14.73
Response: 12106
Amount: 0
Conc: 0



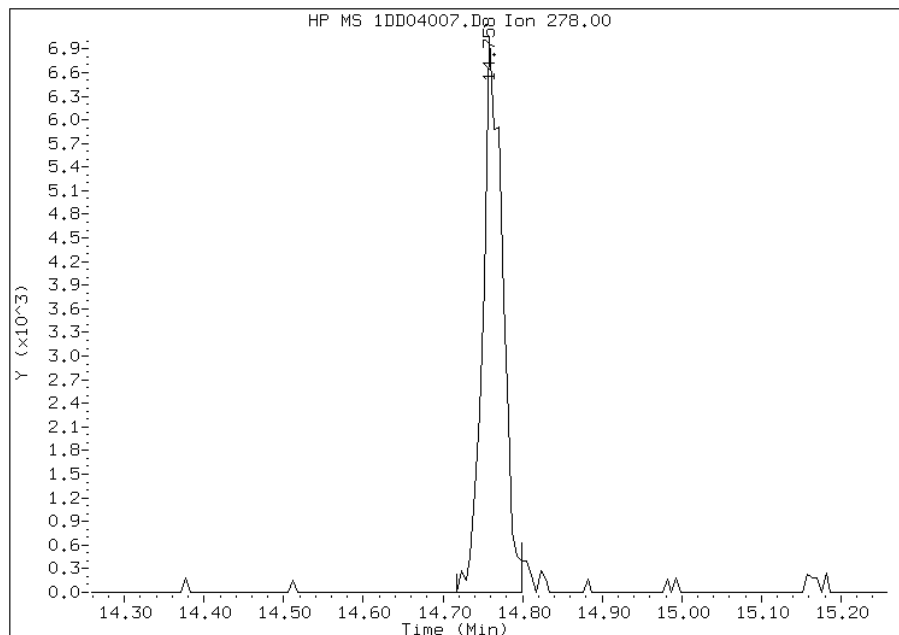
Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Split Peak

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

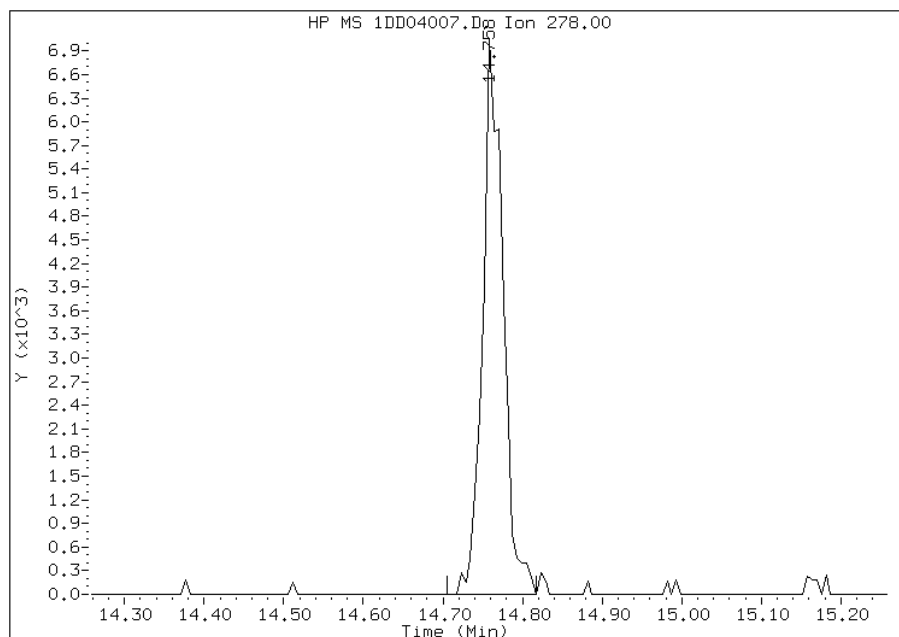
Processing Integration Results

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

Semivolatiles 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 Inst ID: BSMSD.i
 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 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	6.089	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

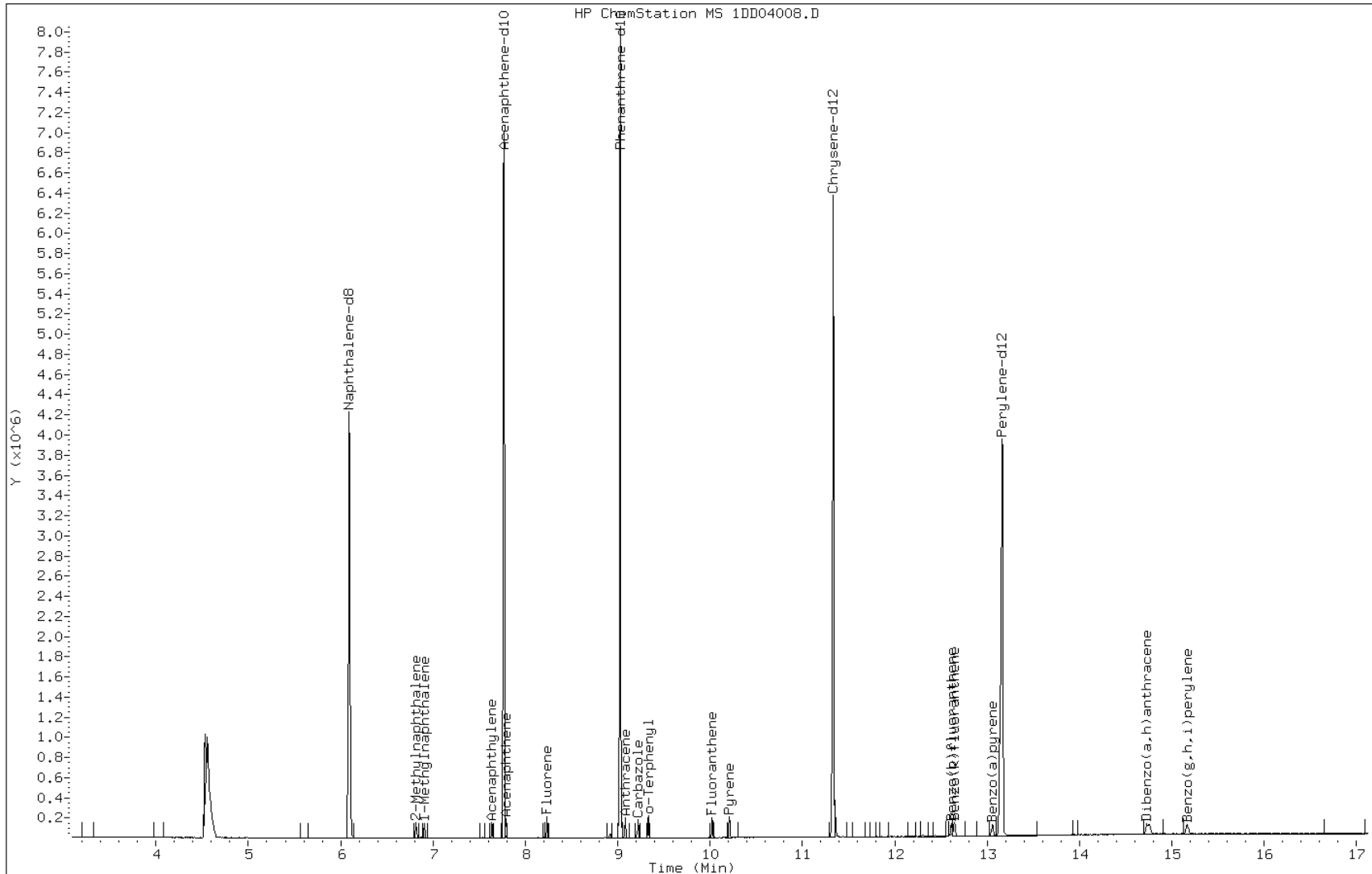
Date: 04-APR-2013 14:11

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531398

Operator: SCC

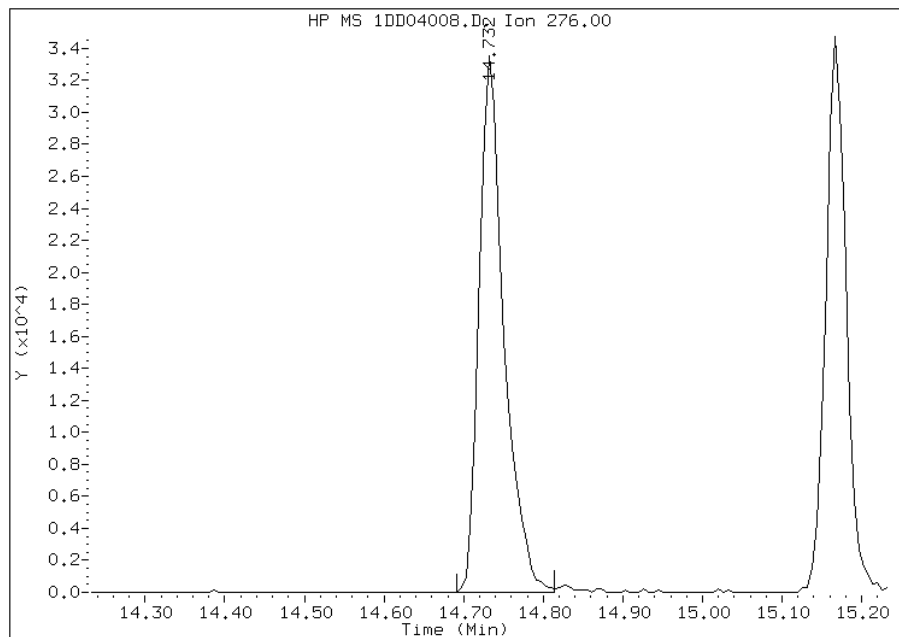


Manual Integration Report

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

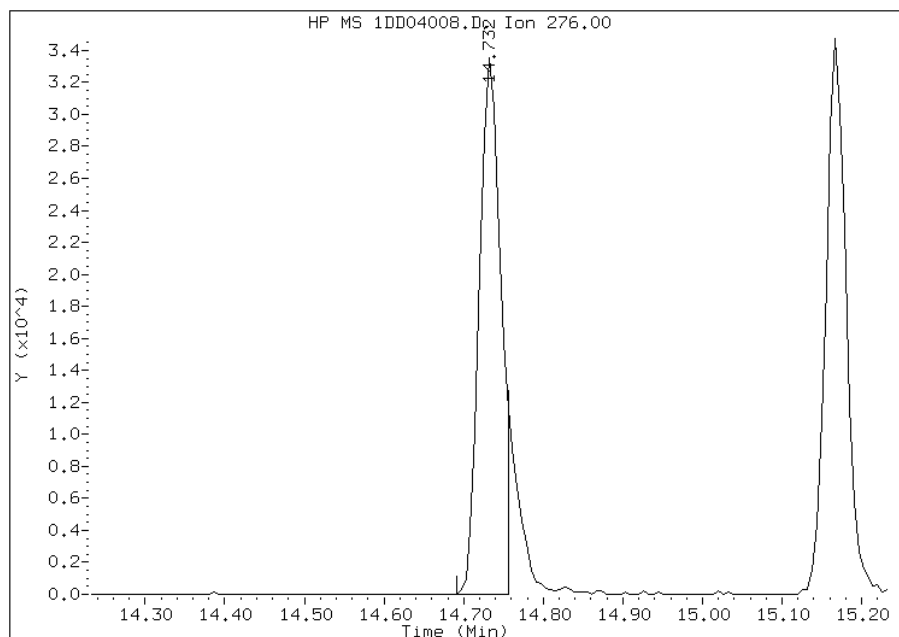
Processing Integration Results

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



Manual Integration Results

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



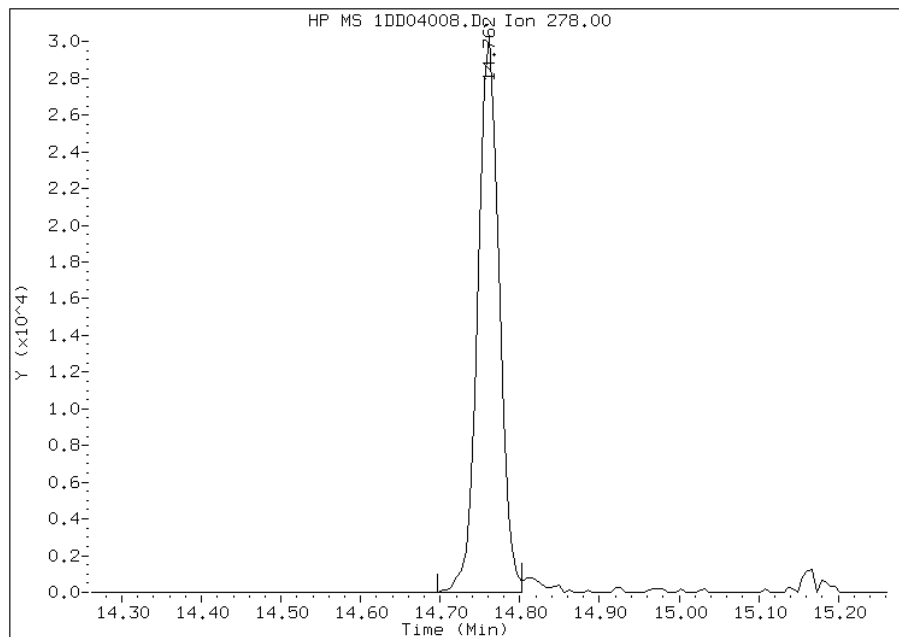
Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:29
Manual Integration Reason: Split Peak

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

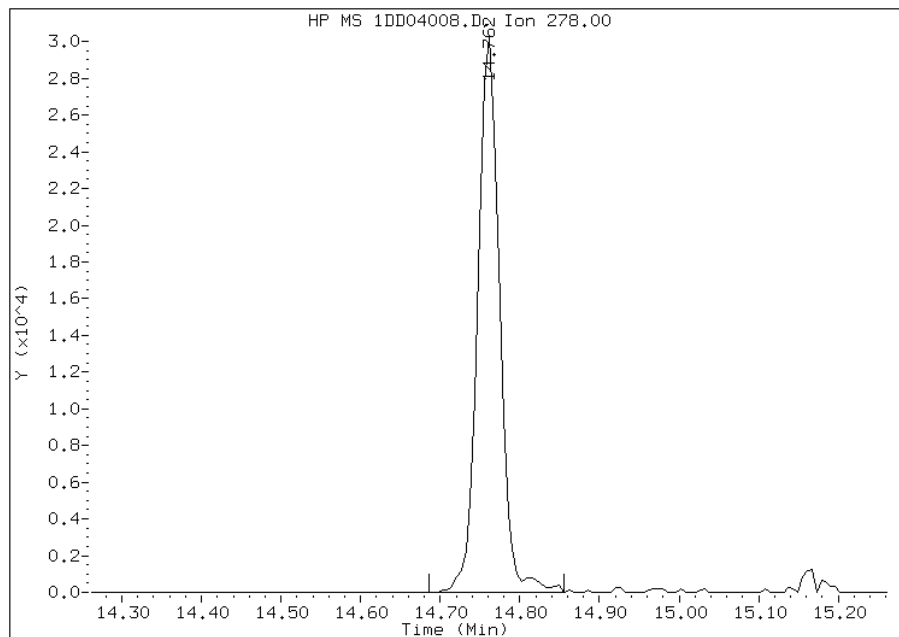
Processing Integration Results

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 Inst ID: BSMSD.i
 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

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (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

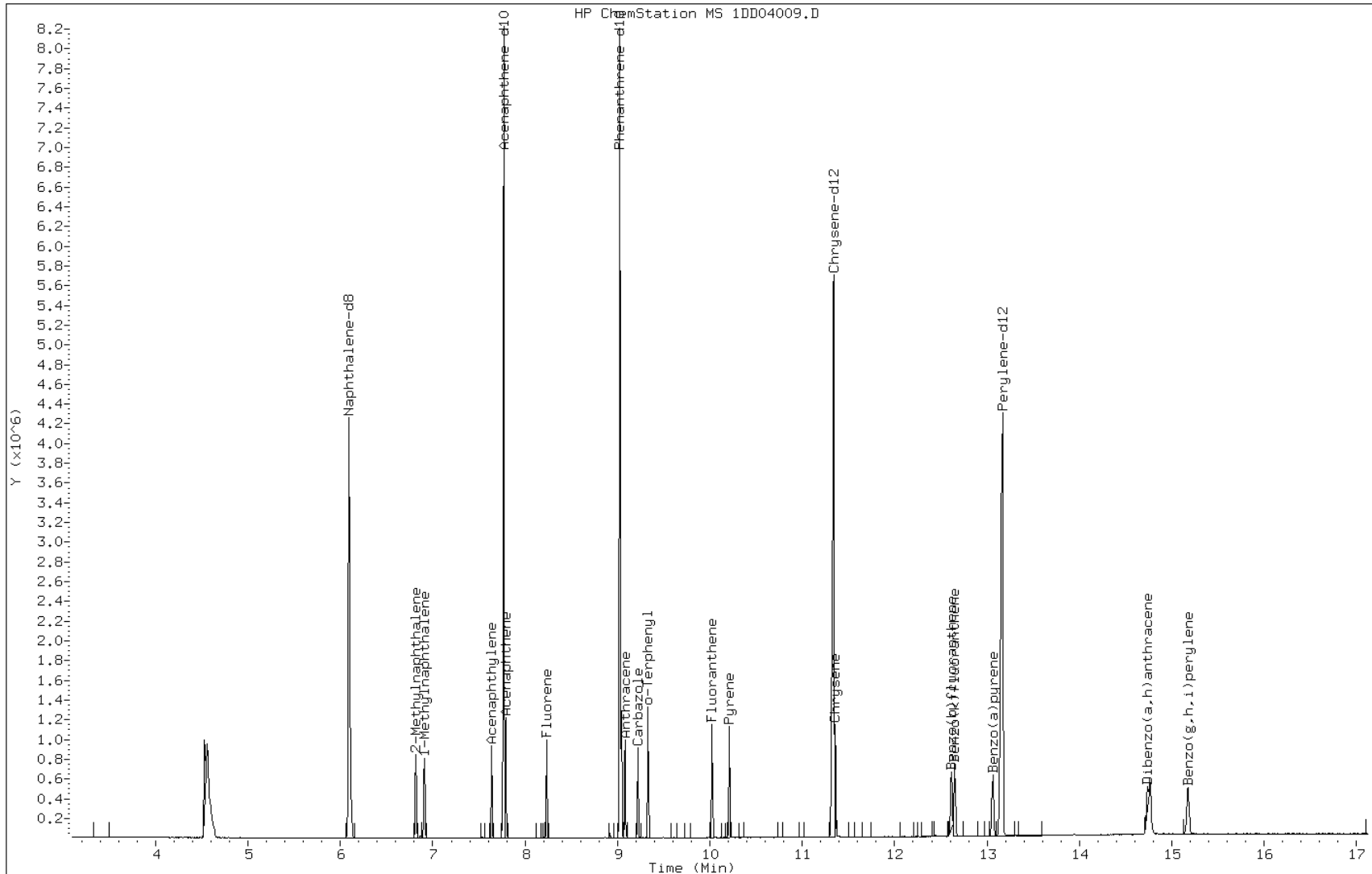
Date: 04-APR-2013 14:34

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531399

Operator: SCC

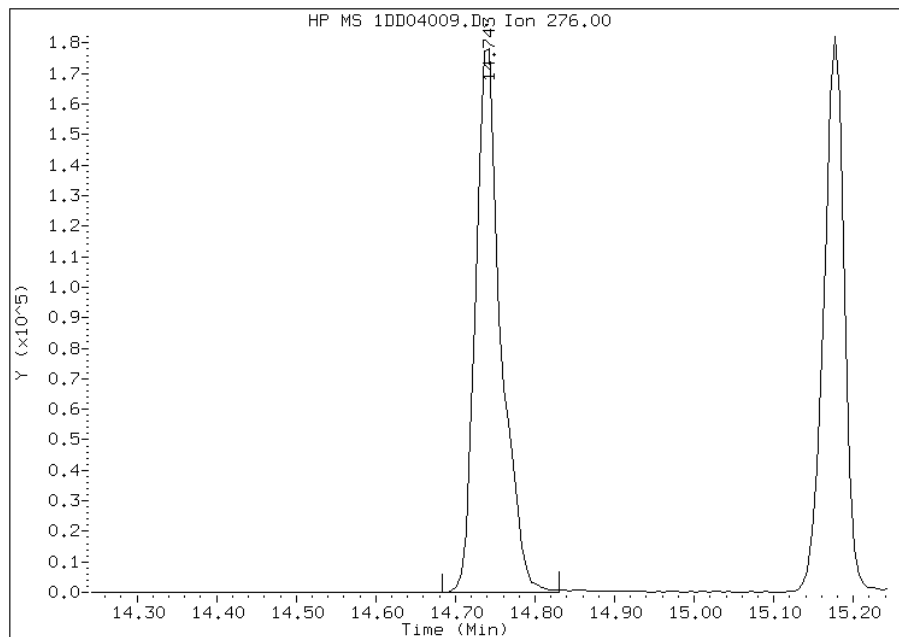


Manual Integration Report

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

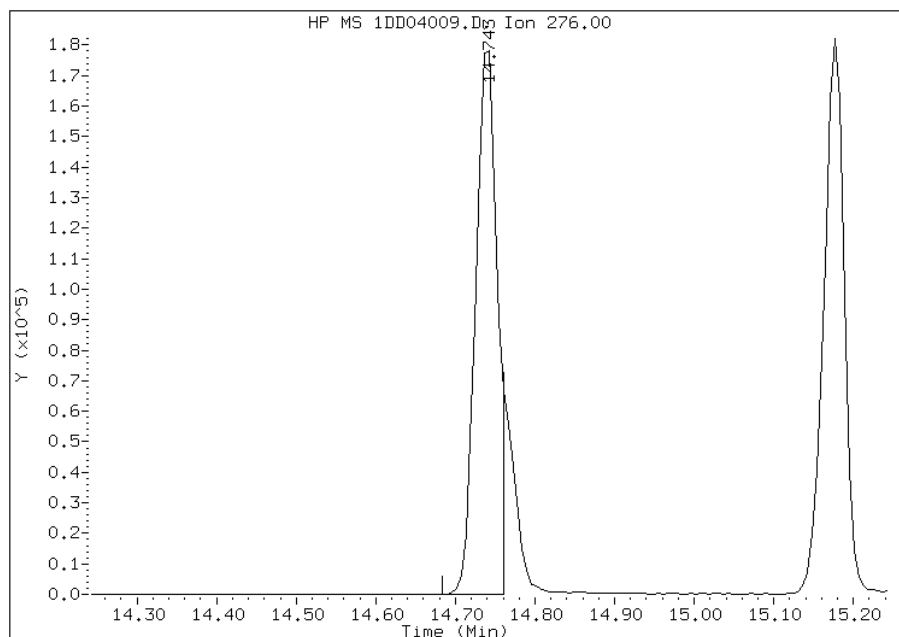
Processing Integration Results

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

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (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

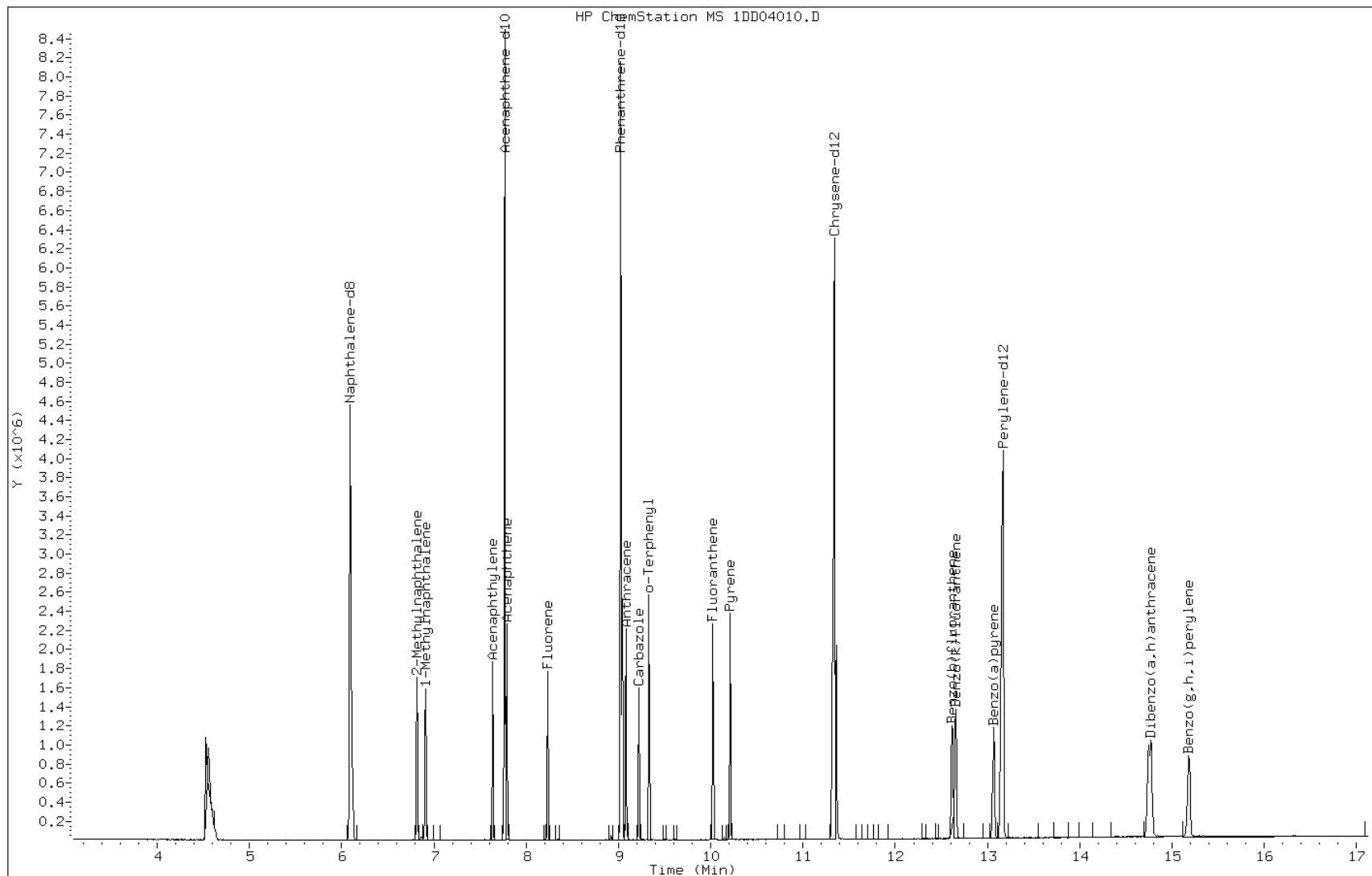
Date: 04-APR-2013 14:57

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531400

Operator: SCC

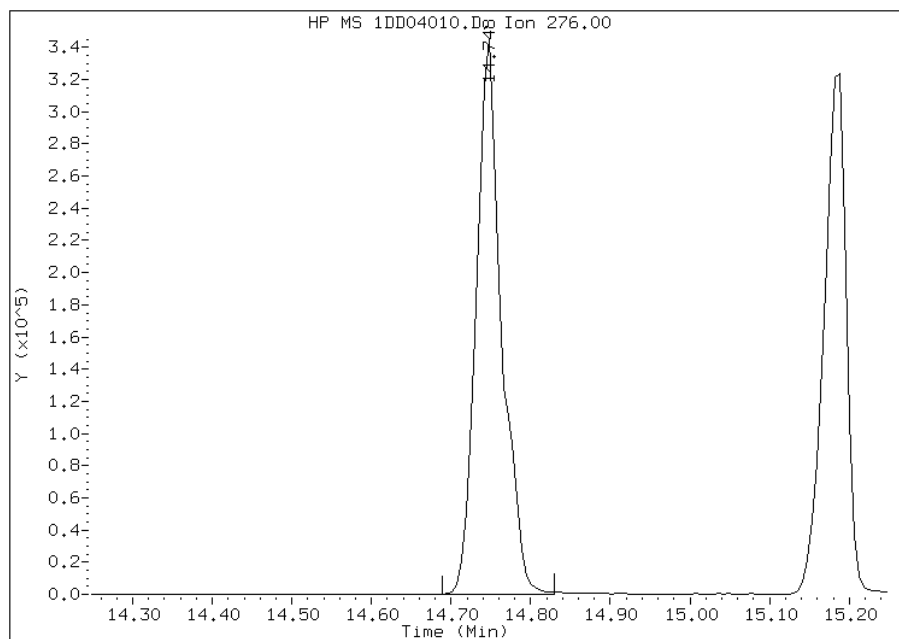


Manual Integration Report

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

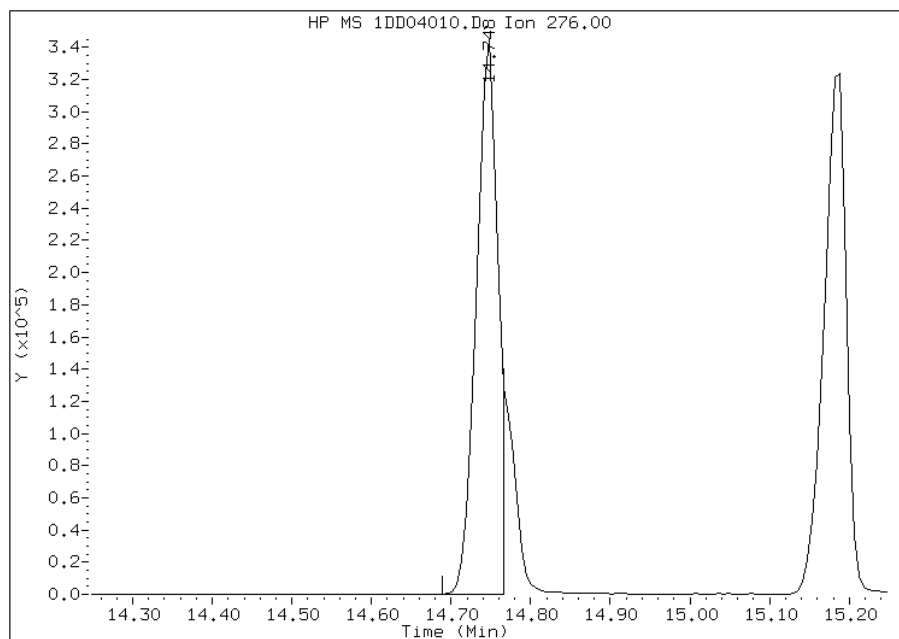
Processing Integration Results

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 Inst ID: BSMSD.i
 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 Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT	SIG	AMOUNTS					ON-COL
			MASS	RT	EXP RT	REL RT	RESPONSE	
* 1 Naphthalene-d8	136		6.089	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

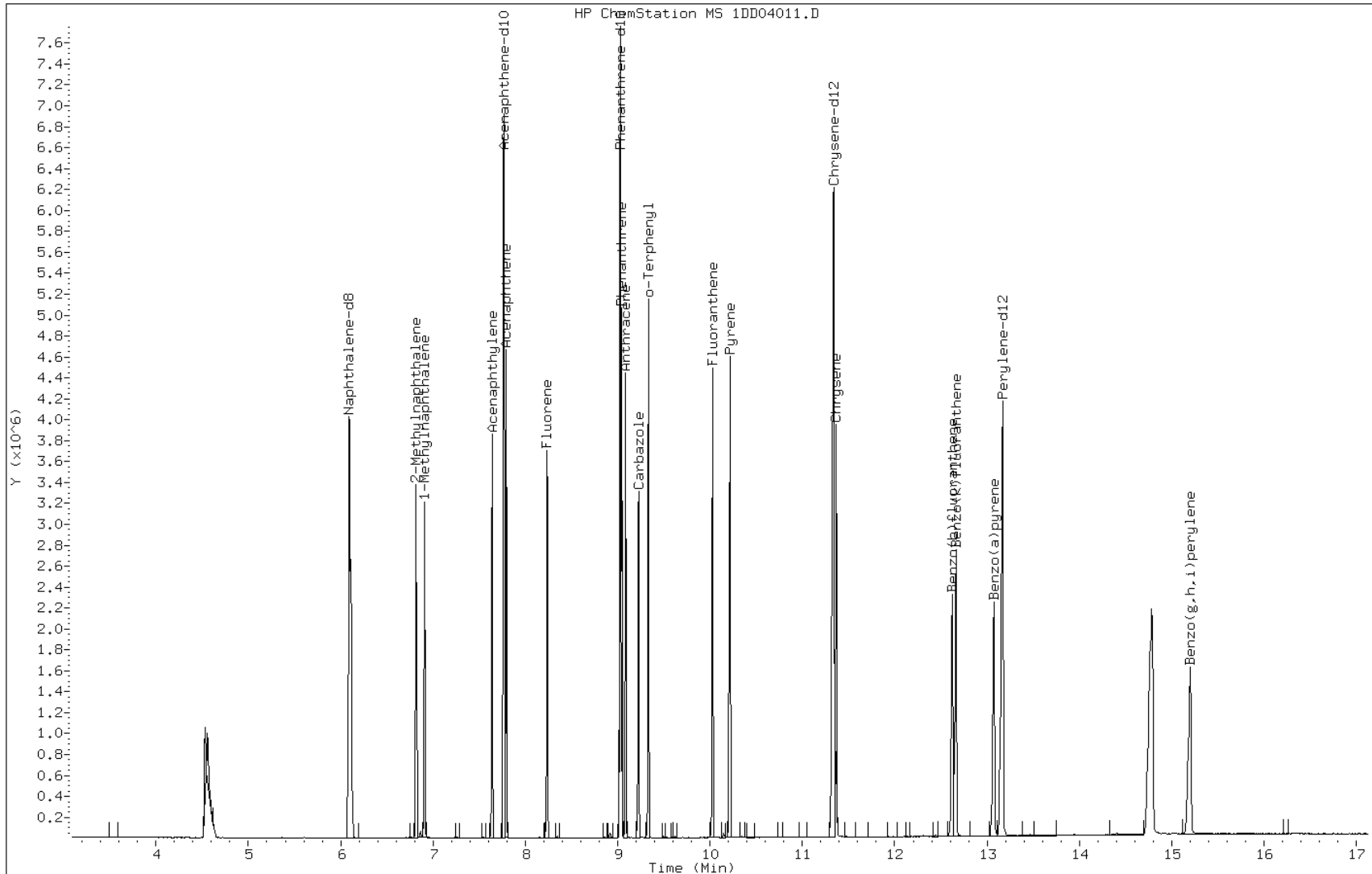
Date: 04-APR-2013 15:19

Client ID:

Instrument: BSMSD.i

Sample Info: ICIS-1531401

Operator: SCC

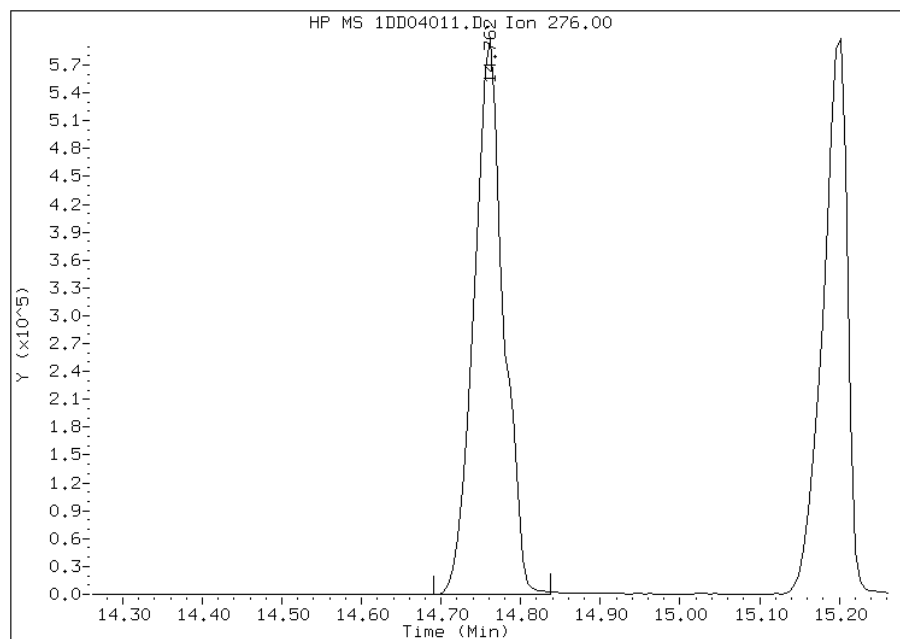


Manual Integration Report

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

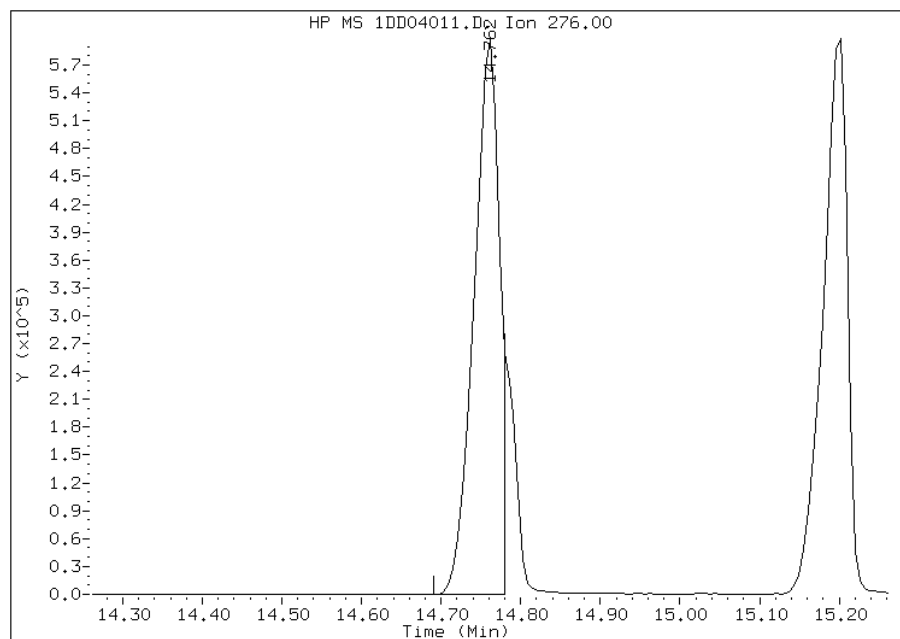
Processing Integration Results

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\dfASTPAHi.m
 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

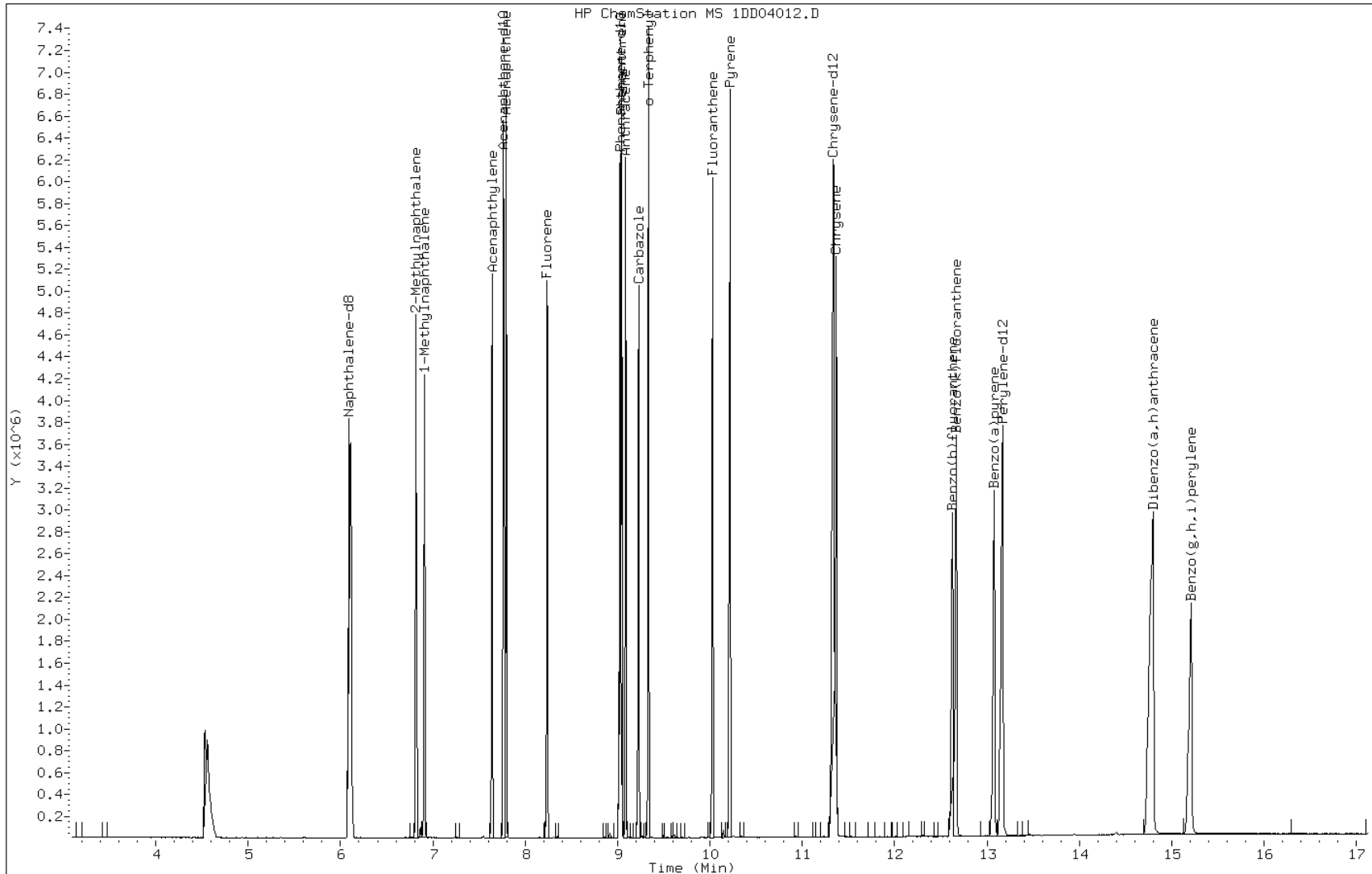
Date: 04-APR-2013 15:42

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531402

Operator: SCC

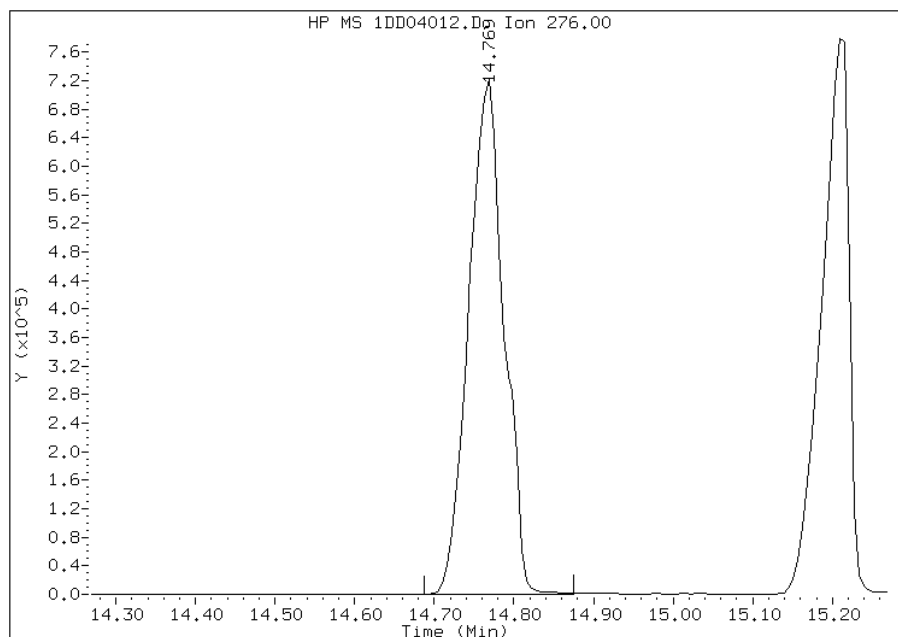


Manual Integration Report

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

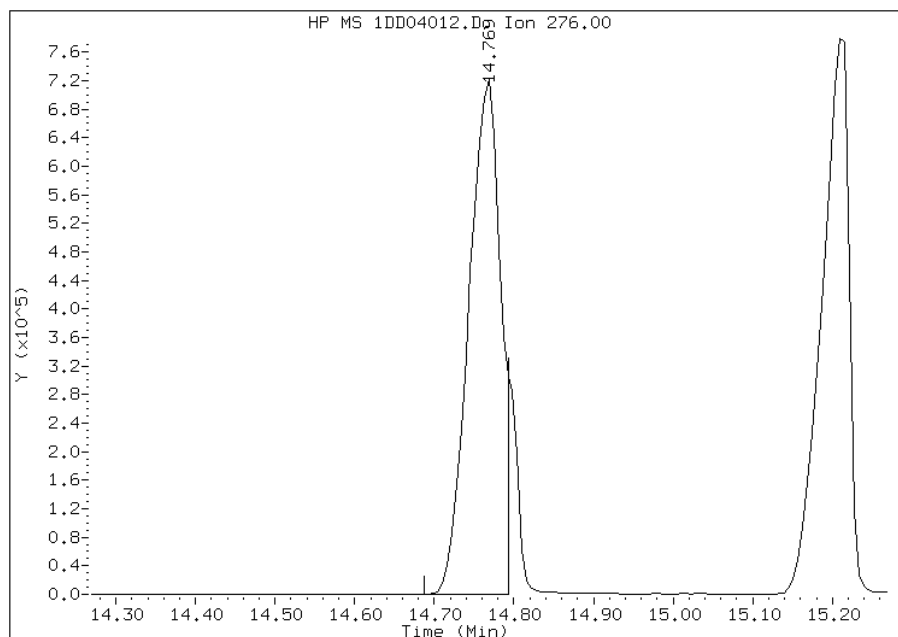
Processing Integration Results

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

Semivolatile 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 Inst ID: BSMSD.i
 Smp Info : IC-1531403
 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 15:42 Cal File: 1DD04012.D
 Als bottle: 11 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.090	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

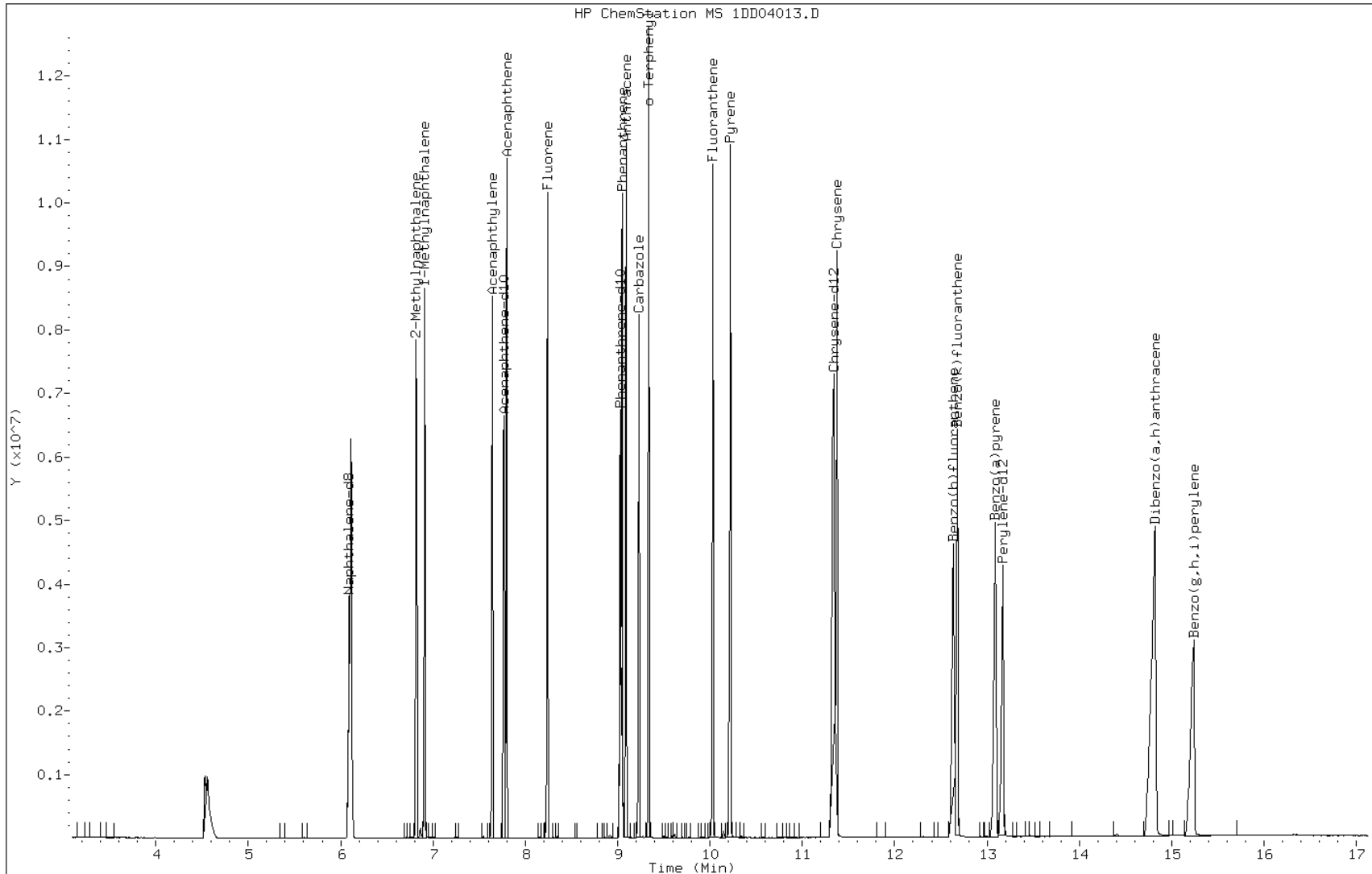
Date: 04-APR-2013 16:04

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531403

Operator: SCC

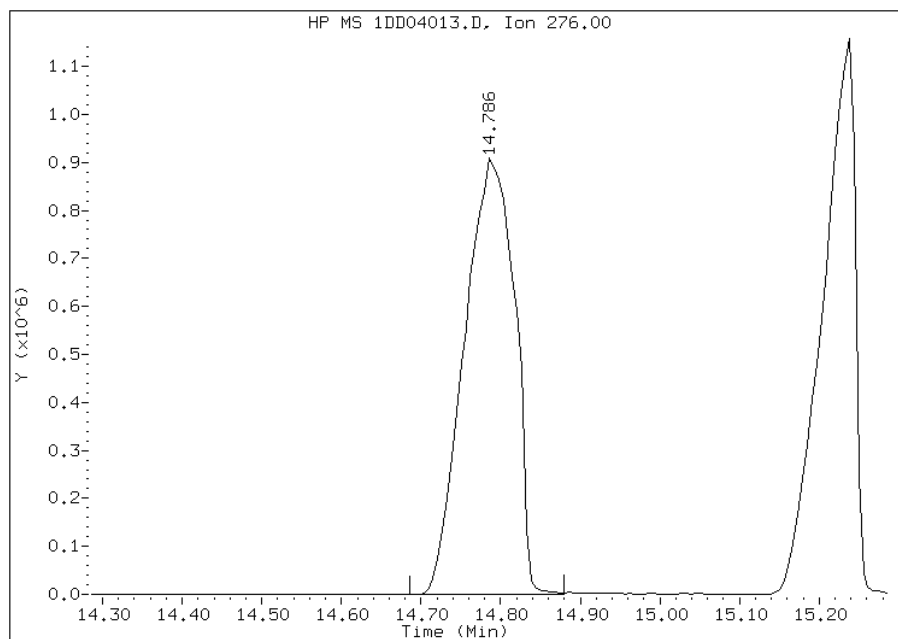


Manual Integration Report

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

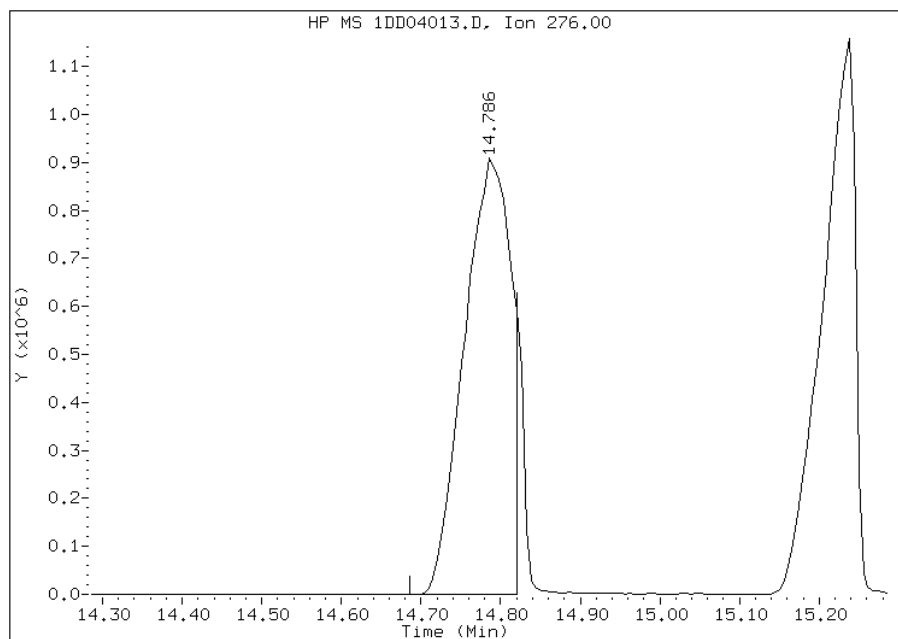
Processing Integration Results

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.: 680-89328-2
 SDG No.: 68089328-2
 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

Semivolatiles 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 Inst ID: BSMSD.i
 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 Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

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

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

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Naphthalene-d8	136		6.096	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				
	MASS	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.

Data File: 1DD04014.D

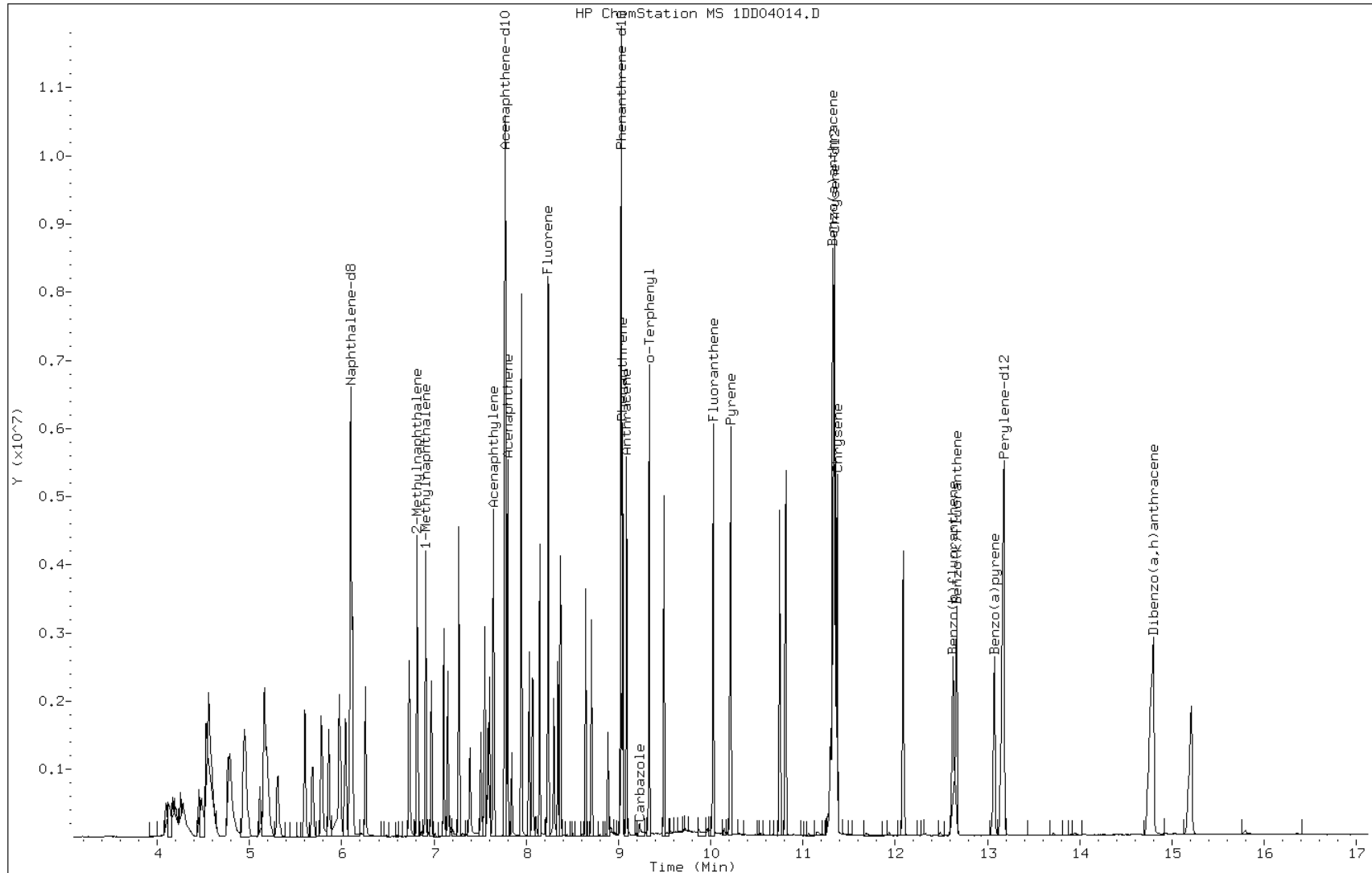
Date: 04-APR-2013 16:27

Client ID:

Instrument: BSMSD.i

Sample Info: ICV-1448440

Operator: SCC

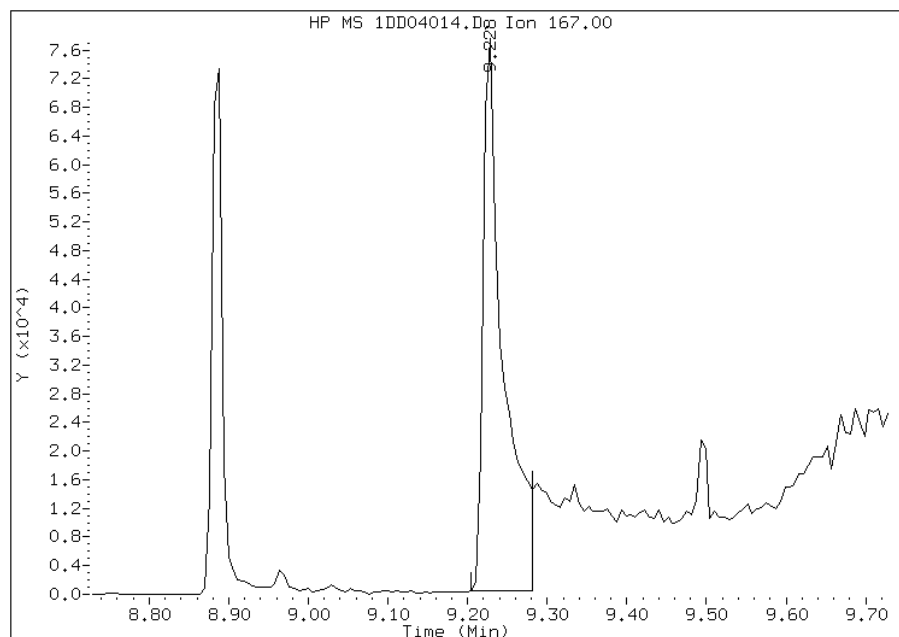


Manual Integration Report

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

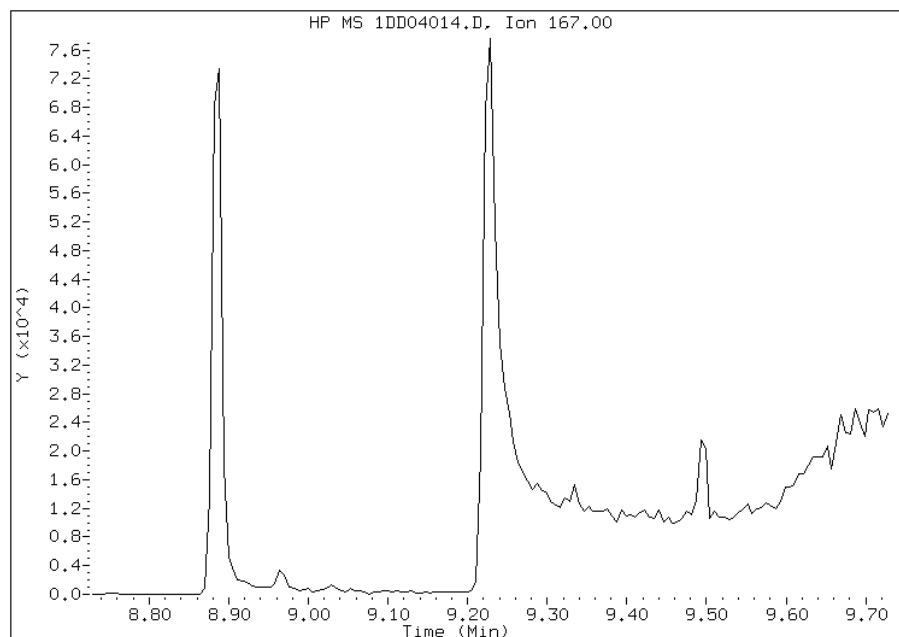
Processing Integration Results

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



Manual Integration Results

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



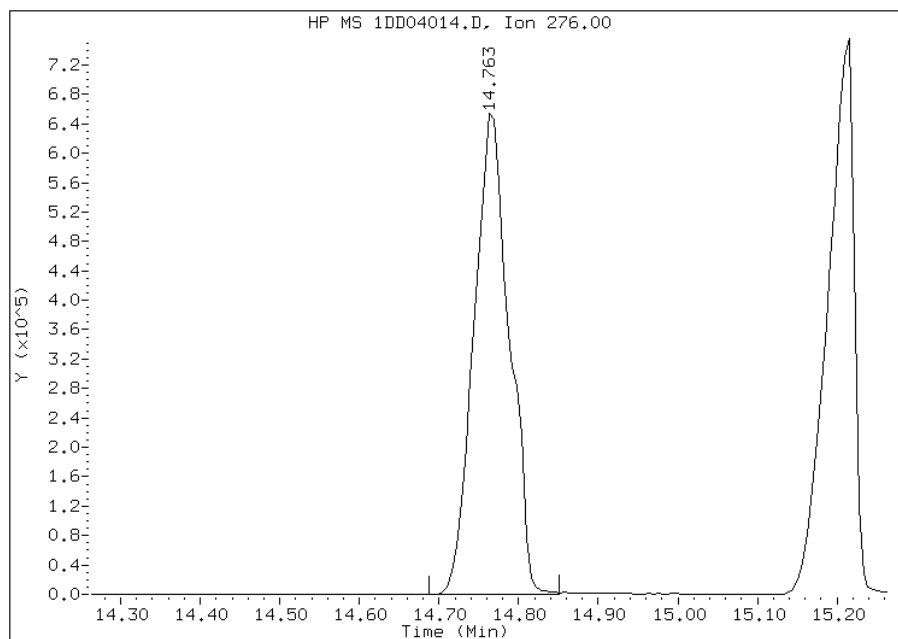
Manually Integrated By: cantins
Modification Date: 05-Apr-2013 13:08
Manual Integration Reason: Baseline Event

Manual Integration Report

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

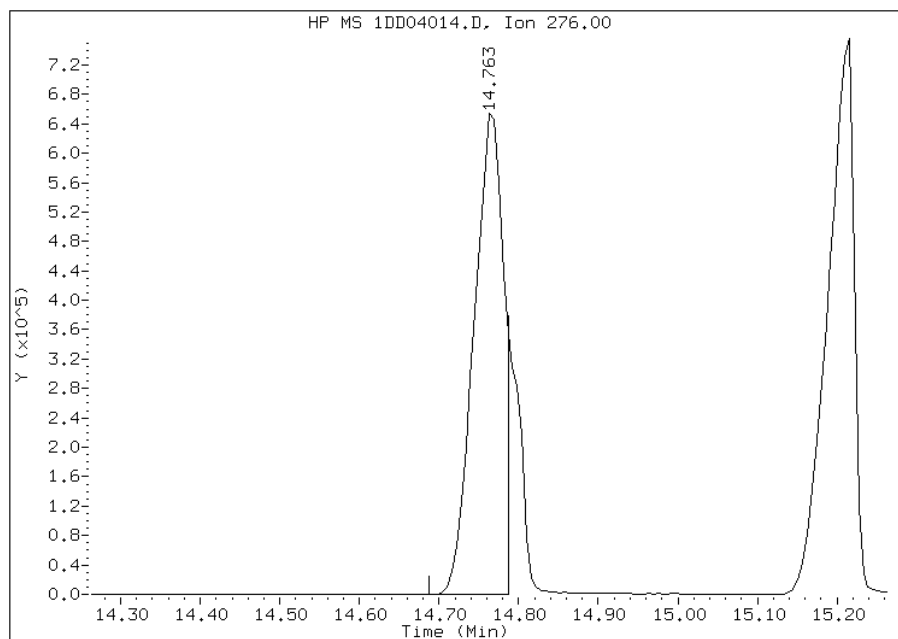
Processing Integration Results

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.: 680-89328-2
 SDG No.: 68089328-2
 Lab Sample ID: CCVIS 660-136733/3 Calibration Date: 04/22/2013 10:43
 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: 1DD22003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9942	0.9705	0.0000	19500	20000	-2.4	20.0
2-Methylnaphthalene	Ave	0.6418	0.6424	0.0000	20000	20000	0.1	20.0
1-Methylnaphthalene	Ave	0.6061	0.6008	0.0000	19800	20000	-0.9	20.0
Acenaphthylene	Ave	1.693	1.723	0.0000	20400	20000	1.8	20.0
Acenaphthene	Ave	1.045	1.062	0.0000	20300	20000	1.6	20.0
Fluorene	Ave	1.238	1.243	0.0000	20100	20000	0.5	20.0
Phenanthrene	Ave	1.102	1.077	0.0000	19600	20000	-2.2	20.0
Anthracene	Ave	1.094	1.103	0.0000	20200	20000	0.9	20.0
Carbazole	Ave	0.9646	0.9675	0.0000	20100	20000	0.3	20.0
Fluoranthene	Ave	1.134	1.139	0.0000	20100	20000	0.5	20.0
Pyrene	Ave	1.201	1.204	0.0000	20000	20000	0.2	20.0
Benzo[a]anthracene	Ave	1.156	1.052	0.0000	18200	20000	-9.0	20.0
Chrysene	Ave	1.084	1.059	0.0000	19500	20000	-2.3	20.0
Benzo[b]fluoranthene	Ave	0.999	0.9937	0.0000	19900	20000	-0.6	20.0
Benzo[k]fluoranthene	Ave	1.053	1.039	0.0000	19700	20000	-1.3	20.0
Benzo[a]pyrene	Ave	1.004	1.016	0.0000	20200	20000	1.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.071	1.096	0.0000	20500	20000	2.4	20.0
Dibenz(a,h)anthracene	Ave	1.008	1.018	0.0000	20200	20000	1.0	20.0
Benzo[g,h,i]perylene	Ave	1.031	1.033	0.0000	20000	20000	0.2	20.0
o-Terphenyl	Ave	0.6027	0.6226	0.0000	20700	20000	3.3	20.0

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22003.D
 Lab Smp Id: CCV-1531401
 Inj Date : 22-APR-2013 10:43
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : CCV-1531401
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
 Meth Date : 22-Apr-2013 11:04 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

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.054	6.054	(1.000)	1796455	40.0000	
* 6 Acenaphthene-d10	164	7.734	7.734	(1.000)	1037513	40.0000	
* 9 Phenanthrene-d10	188	8.998	8.998	(1.000)	1775352	40.0000	(H)
\$ 13 o-Terphenyl	230	9.309	9.309	(1.035)	552688	20.0000	21(H)
* 17 Chrysene-d12	240	11.307	11.307	(1.000)	1817611	40.0000	(H)
* 22 Perylene-d12	264	13.122	13.122	(1.000)	1852984	40.0000	(H)
2 Naphthalene	128	6.077	6.077	(1.004)	871717	20.0000	20
3 2-Methylnaphthalene	142	6.783	6.783	(1.120)	577049	20.0000	20
4 1-Methylnaphthalene	142	6.877	6.877	(1.136)	539630	20.0000	20
5 Acenaphthylene	152	7.611	7.611	(0.984)	893717	20.0000	20
7 Acenaphthene	154	7.764	7.764	(1.004)	551018	20.0000	20
8 Fluorene	166	8.204	8.204	(1.061)	644885	20.0000	20
10 Phenanthrene	178	9.015	9.015	(1.002)	956353	20.0000	20(H)
11 Anthracene	178	9.056	9.056	(1.007)	979308	20.0000	20(H)
12 Carbazole	167	9.197	9.197	(1.022)	858844	20.0000	20(H)
14 Fluoranthene	202	10.002	10.002	(1.112)	1011014	20.0000	20(H)
15 Pyrene	202	10.184	10.184	(0.901)	1093873	20.0000	20(H)
16 Benzo(a)anthracene	228	11.289	11.289	(0.998)	955977	20.0000	18(H)
18 Chrysene	228	11.330	11.330	(1.002)	962817	20.0000	20(H)
19 Benzo(b)fluoranthene	252	12.582	12.582	(0.959)	920620	20.0000	20(H)
20 Benzo(k)fluoranthene	252	12.623	12.623	(0.962)	962751	20.0000	20(H)
21 Benzo(a)pyrene	252	13.034	13.034	(0.993)	941426	20.0000	20(H)
23 Indeno(1,2,3-cd)pyrene	276	14.709	14.709	(1.121)	1015743	20.0000	20(MH)
24 Dibenzo(a,h)anthracene	278	14.732	14.732	(1.123)	942978	20.0000	20(H)
25 Benzo(g,h,i)perylene	276	15.143	15.143	(1.154)	957388	20.0000	20(H)

QC Flag Legend

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

Data File: 1DD22003.D

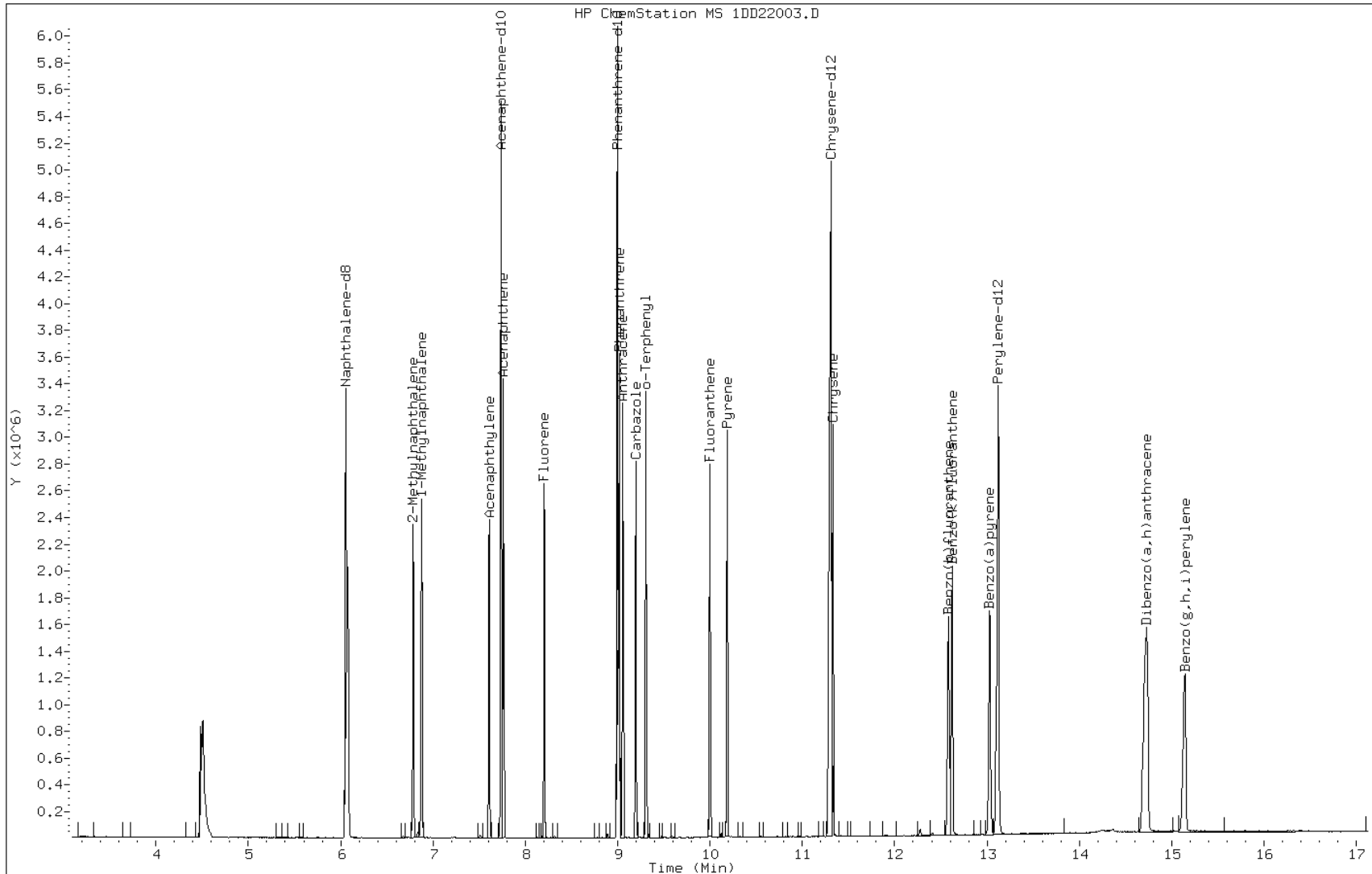
Date: 22-APR-2013 10:43

Client ID:

Instrument: BSMSD.i

Sample Info: CCV-1531401

Operator: SCC

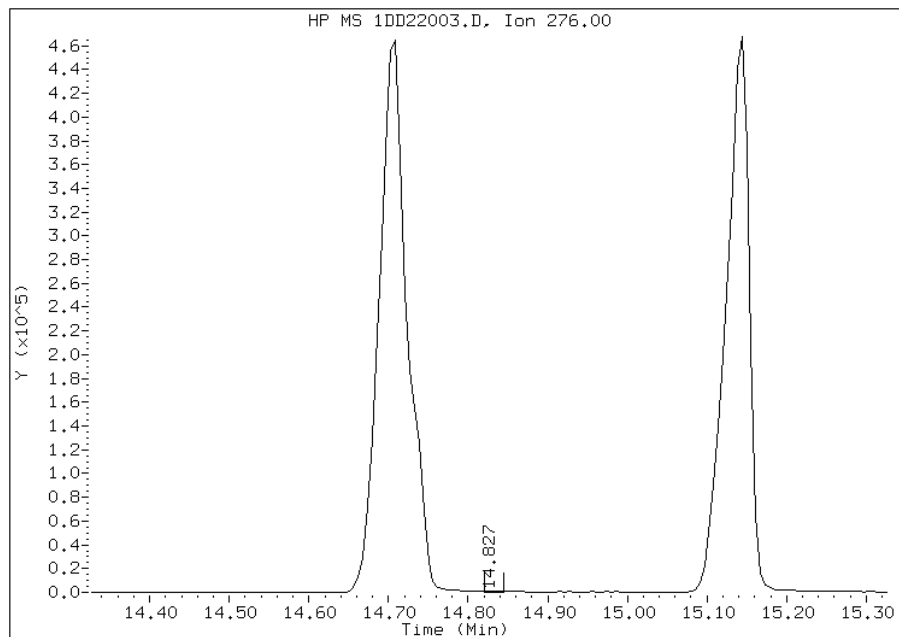


Manual Integration Report

Data File: 1DD22003.D
Inj. Date and Time: 22-APR-2013 10:43
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

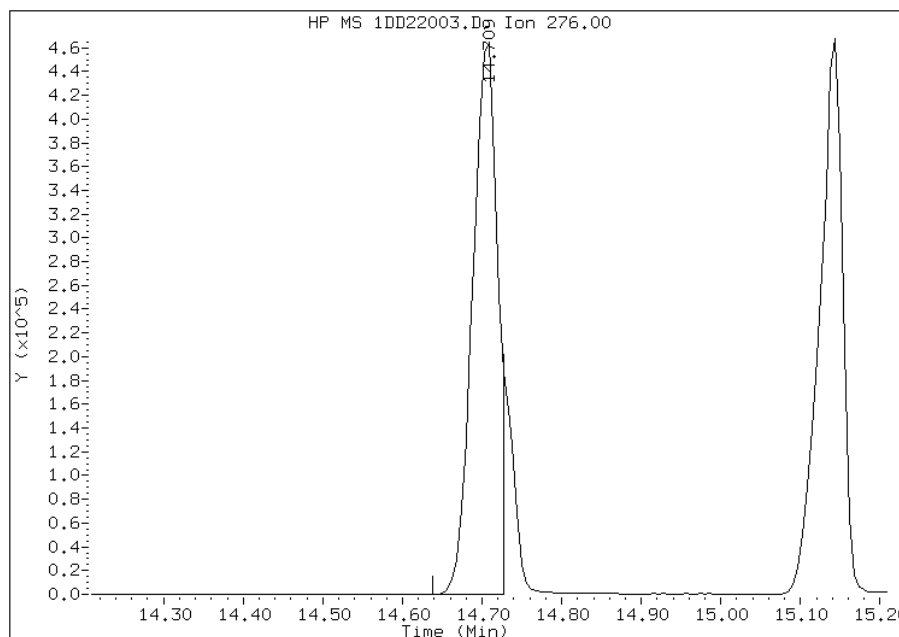
Processing Integration Results

RT: 14.83
Response: 538
Amount: 0
Conc: 0



Manual Integration Results

RT: 14.71
Response: 1015743
Amount: 20
Conc: 20



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 11:05
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 Lab Sample ID: CCV 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

Semivolatiles 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 Inst ID: BSMSD.i
 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 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	6.051	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

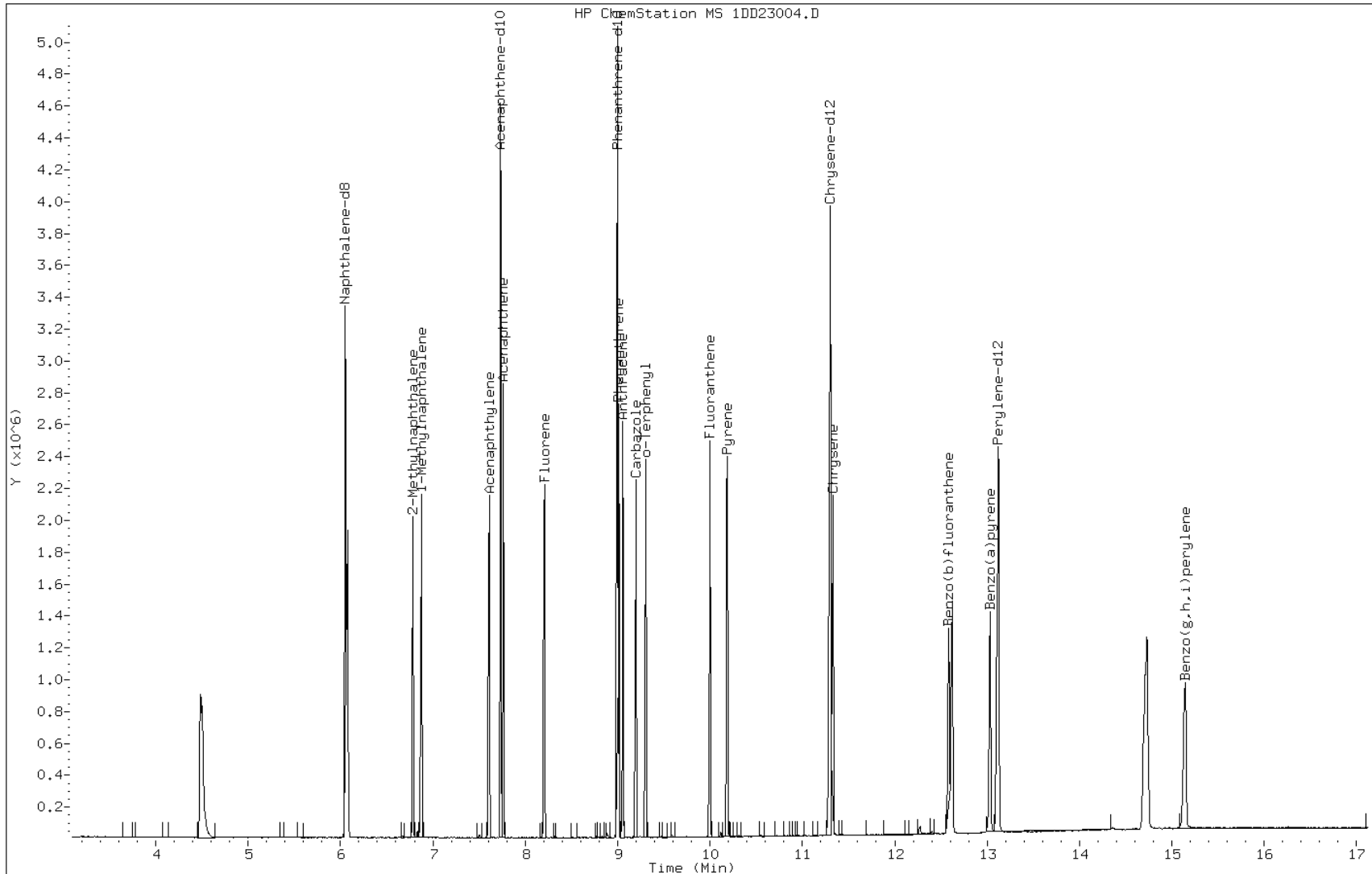
Date: 23-APR-2013 13:06

Client ID:

Instrument: BSMSD.i

Sample Info: CCV-1531401

Operator: SCC

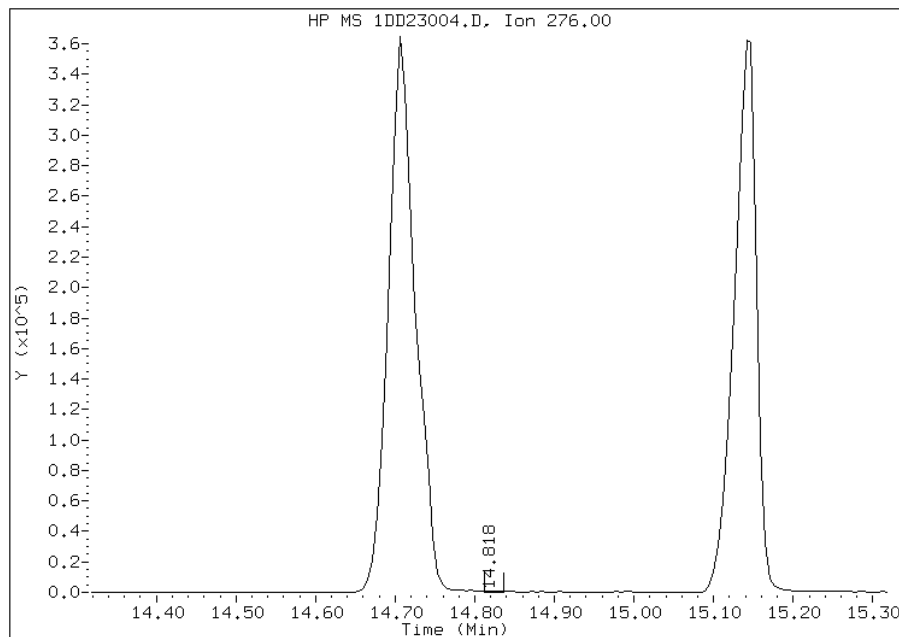


Manual Integration Report

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

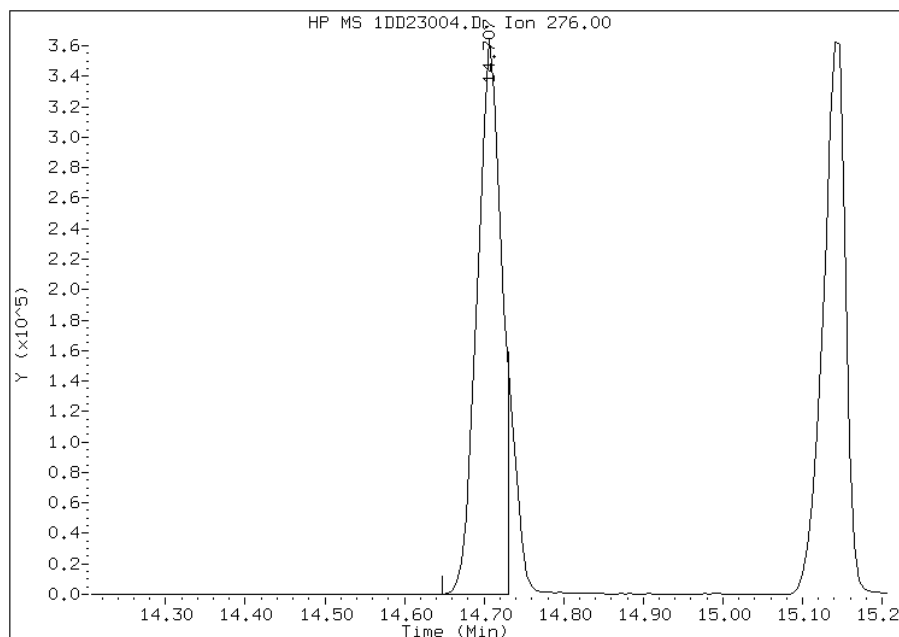
Processing Integration Results

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

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

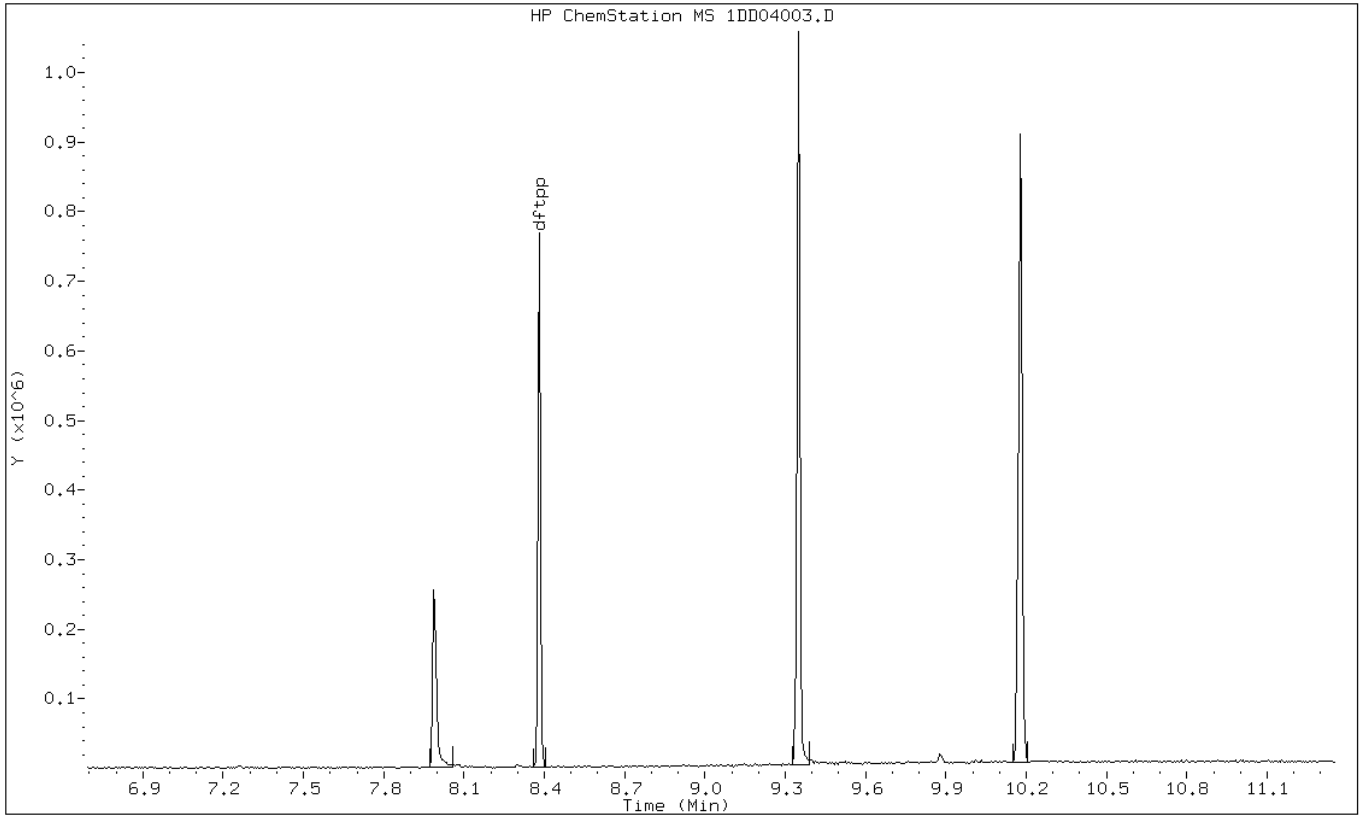
Date: 04-APR-2013 12:15

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1DD04003.D

Date: 04-APR-2013 12:15

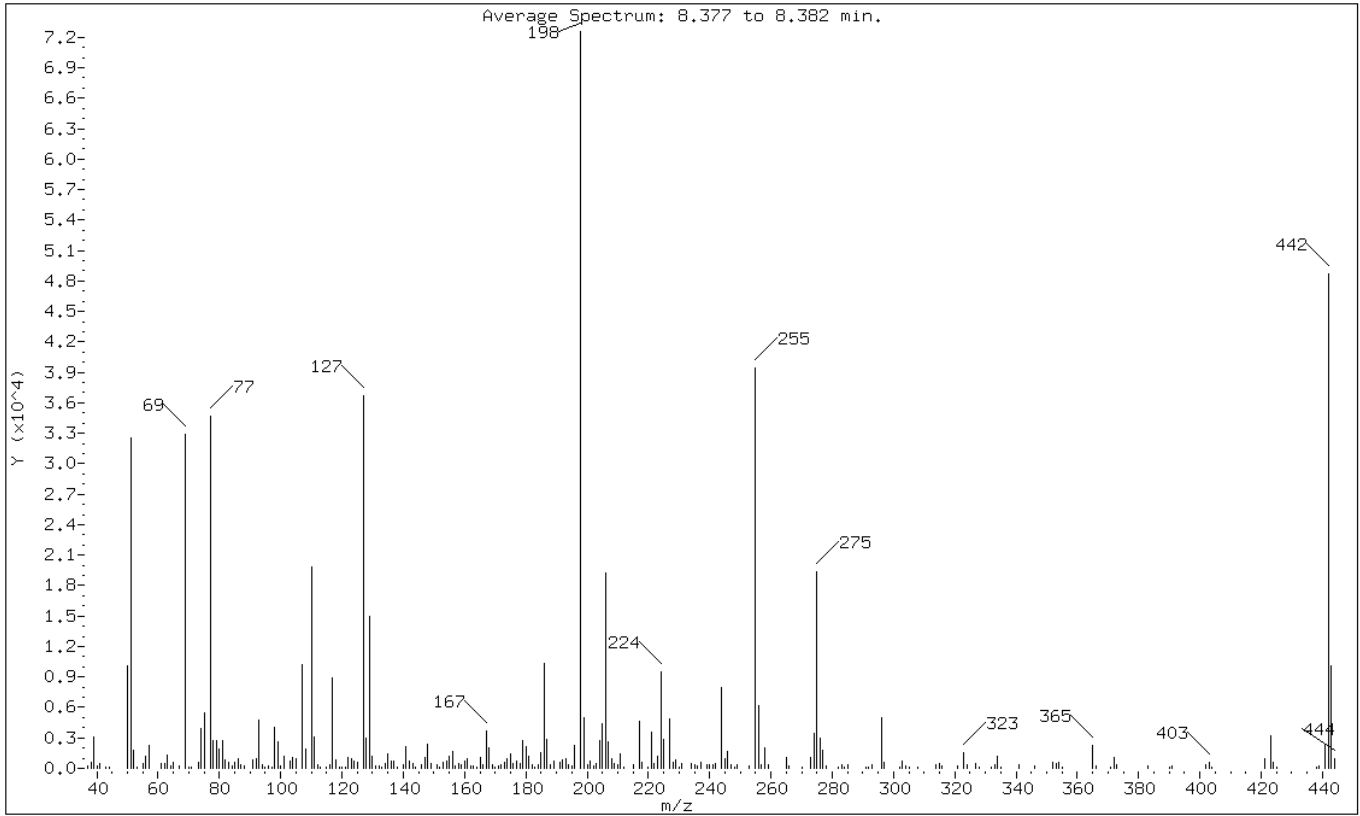
Client ID: DFTPP

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\1D042213.b\1DD22002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 22-APR-2013 10:26
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : DFTPP-1525850
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.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	53672			50.00-	0.00	100.00
8.349	8.532	-0.183	51	25210			10.00-	80.00	46.97
8.349	8.532	-0.183	68	106			0.00-	2.00	0.43
8.349	8.532	-0.183	69	24404			0.00-	0.00	45.47
8.349	8.532	-0.183	70	0	0.0	0.0	0.00-	2.00	0.00
8.349	8.532	-0.183	127	26678			10.00-	80.00	49.71
8.349	8.532	-0.183	197	0	0.0	0.0	0.00-	2.00	0.00
8.349	8.532	-0.183	442	39710			50.00-	0.00	73.99
8.349	8.532	-0.183	199	3206			5.00-	9.00	5.97
8.349	8.532	-0.183	275	14384			10.00-	60.00	26.80
8.349	8.532	-0.183	365	2044			1.00-	0.00	3.81
8.349	8.532	-0.183	441	375			0.01-	99.99	4.64
8.349	8.532	-0.183	443	8077			15.00-	24.00	20.34

Data File: 1DD22002.D

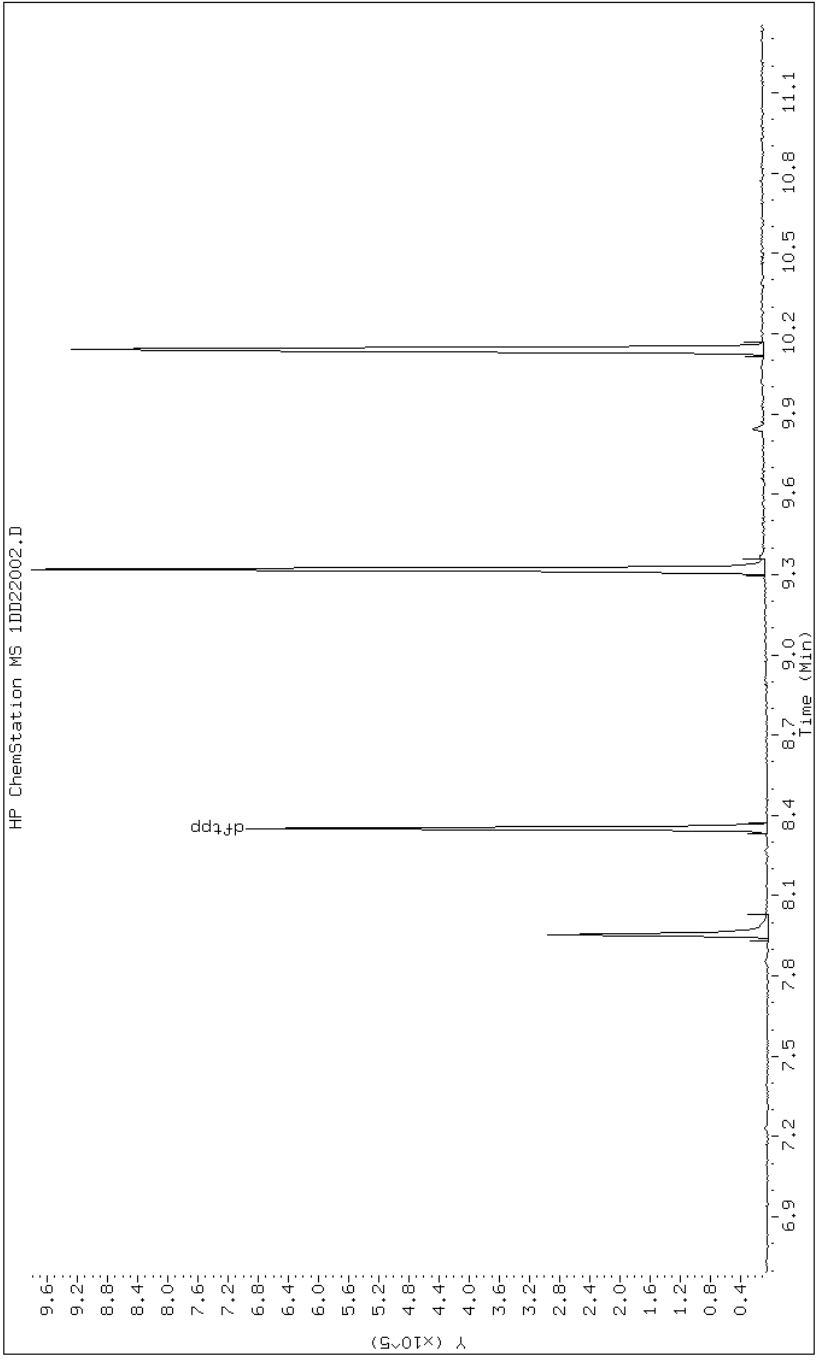
Date: 22-APR-2013 10:26

Client ID: DFTPP

Instrument: BSMDS.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1DD22002.D

Date: 22-APR-2013 10:26

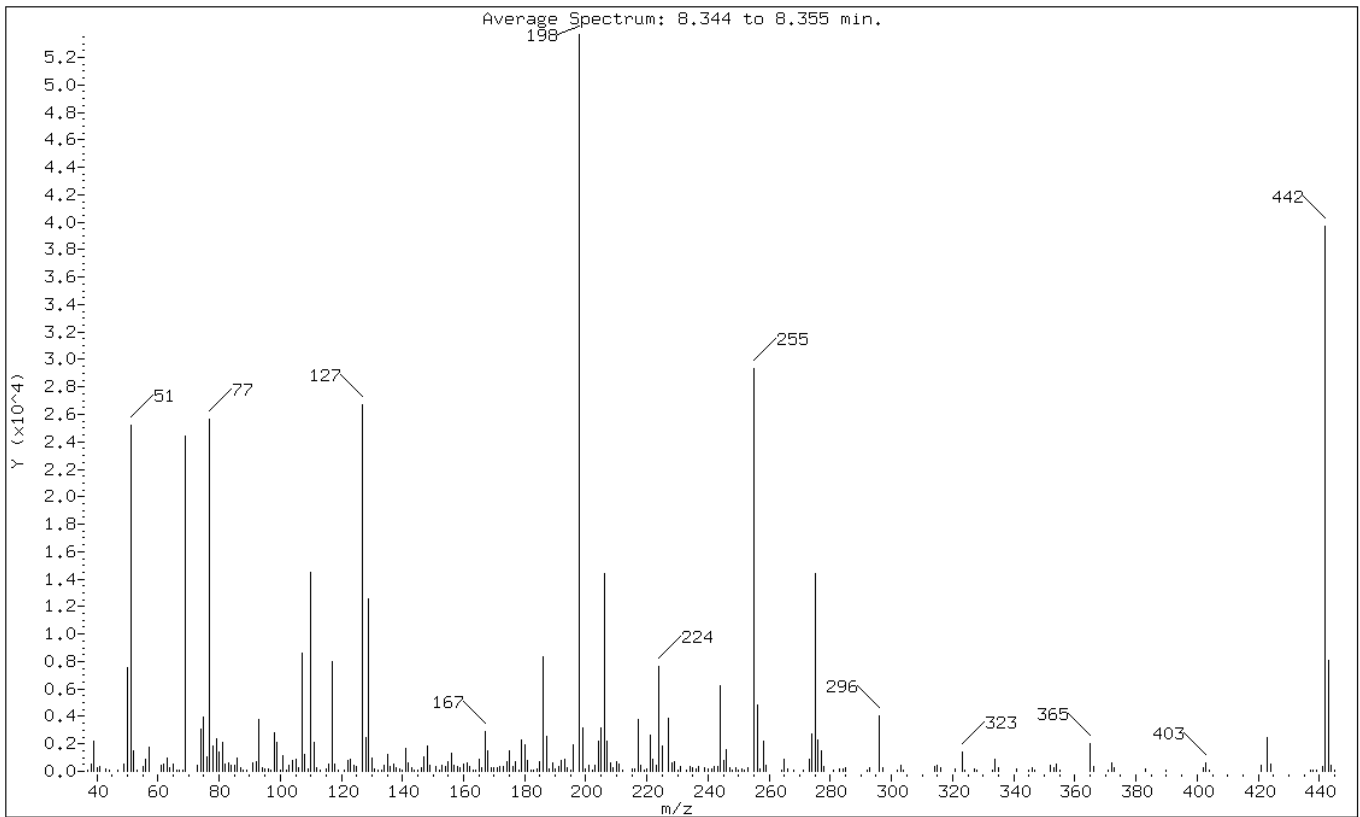
Client ID: DFTPP

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	46.97
68	Less than 2.00% of mass 69	0.20 (0.43)
69	Mass 69 relative abundance	45.47
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	49.71
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	73.99
199	5.00 - 9.00% of mass 198	5.97
275	10.00 - 60.00% of mass 198	26.80
365	Greater than 1.00% of mass 198	3.81
441	Present, but less than mass 443	0.70
443	15.00 - 24.00% of mass 442	15.05 (20.34)

Data File: 1DD22002.D

Date: 22-APR-2013 10:26

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22002.D

Spectrum: Average Spectrum: 8.344 to 8.355 min.

Location of Maximum: 198.00

Number of points: 262

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	109	116.00	484	185.00	745	258.00	2158
38.00	570	117.00	7971	186.00	8314	259.00	399
39.00	2226	118.00	544	187.00	2575	264.00	82
40.00	274	119.00	69	188.00	144	265.00	905
41.00	388	121.00	81	189.00	649	266.00	183
43.00	199	122.00	786	190.00	171	268.00	61
44.00	86	123.00	893	191.00	324	271.00	86
47.00	82	124.00	483	192.00	814	273.00	868
49.00	532	125.00	363	193.00	843	274.00	2751
50.00	7580	127.00	26672	194.00	252	275.00	14384
51.00	25208	128.00	2438	195.00	55	276.00	2240
52.00	1456	129.00	12578	196.00	1918	277.00	1463
53.00	63	130.00	1000	198.00	53672	278.00	334
55.00	389	131.00	189	199.00	3206	281.00	61
56.00	892	132.00	59	200.00	206	283.00	187
57.00	1727	133.00	128	201.00	404	284.00	166
61.00	417	134.00	434	202.00	60	285.00	264
62.00	503	135.00	1270	203.00	482	292.00	86
63.00	984	136.00	315	204.00	2171	293.00	229
64.00	229	137.00	529	205.00	3186	296.00	4044
65.00	499	138.00	233	206.00	14377	297.00	306
66.00	52	139.00	132	207.00	2169	302.00	63
67.00	60	140.00	78	208.00	637	303.00	469
68.00	106	141.00	1656	209.00	279	304.00	125
69.00	24400	142.00	617	210.00	665	314.00	315
73.00	427	143.00	306	211.00	518	315.00	450
74.00	3093	144.00	79	212.00	63	316.00	238
75.00	3982	145.00	108	215.00	206	321.00	151
76.00	1092	146.00	292	216.00	152	323.00	1387
77.00	25688	147.00	1069	217.00	3796	324.00	124
78.00	1864	148.00	1843	218.00	477	327.00	198
79.00	2335	149.00	446	219.00	131	328.00	72
80.00	1433	151.00	312	220.00	193	333.00	70
81.00	2092	152.00	99	221.00	2609	334.00	902
82.00	553	153.00	426	222.00	903	335.00	269
83.00	584	154.00	353	223.00	424	341.00	164
84.00	421	155.00	744	224.00	7604	345.00	50
85.00	413	156.00	1278	225.00	1802	346.00	293
86.00	991	157.00	429	227.00	3831	347.00	73
87.00	292	158.00	365	228.00	606	352.00	405

88.00	64	159.00	281	229.00	742	353.00	267
89.00	57	160.00	556	230.00	50	354.00	508
91.00	645	161.00	656	231.00	313	355.00	68
92.00	676	162.00	355	233.00	122	365.00	2044
93.00	3783	163.00	50	234.00	312	366.00	365
94.00	267	164.00	52	235.00	292	371.00	69
95.00	156	165.00	850	236.00	213	372.00	656
96.00	143	166.00	274	237.00	346	373.00	291
97.00	61	167.00	2902	239.00	229	383.00	201
98.00	2808	168.00	1455	240.00	156	390.00	85
99.00	2077	169.00	290	241.00	206	402.00	288
100.00	55	170.00	247	242.00	375	403.00	576
101.00	1119	171.00	286	243.00	380	404.00	65
102.00	69	172.00	364	244.00	6230	421.00	465
103.00	444	173.00	378	245.00	772	423.00	2495
104.00	800	174.00	662	246.00	1570	424.00	547
105.00	836	175.00	1463	247.00	227	437.00	55
106.00	272	176.00	392	248.00	109	438.00	54
107.00	8643	177.00	721	249.00	264	439.00	59
108.00	1228	178.00	58	250.00	56	441.00	375
109.00	133	179.00	2275	251.00	140	442.00	39704
110.00	14467	180.00	1926	252.00	50	443.00	8077
111.00	2126	181.00	752	253.00	220	444.00	442
112.00	246	182.00	107	255.00	29336	445.00	60
113.00	88	183.00	63	256.00	4832		
115.00	190	184.00	186	257.00	159		

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

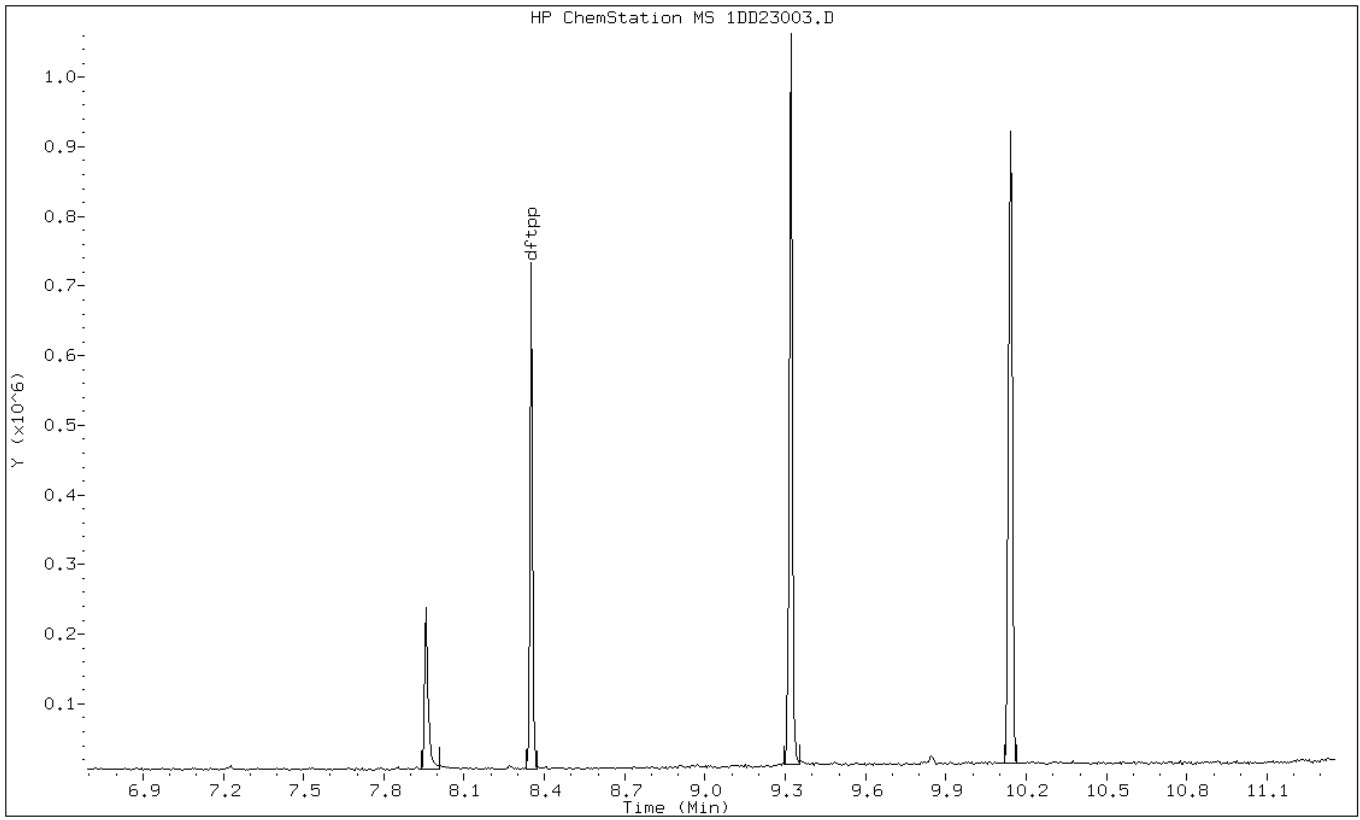
Date: 23-APR-2013 12:50

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1DD23003.D

Date: 23-APR-2013 12:50

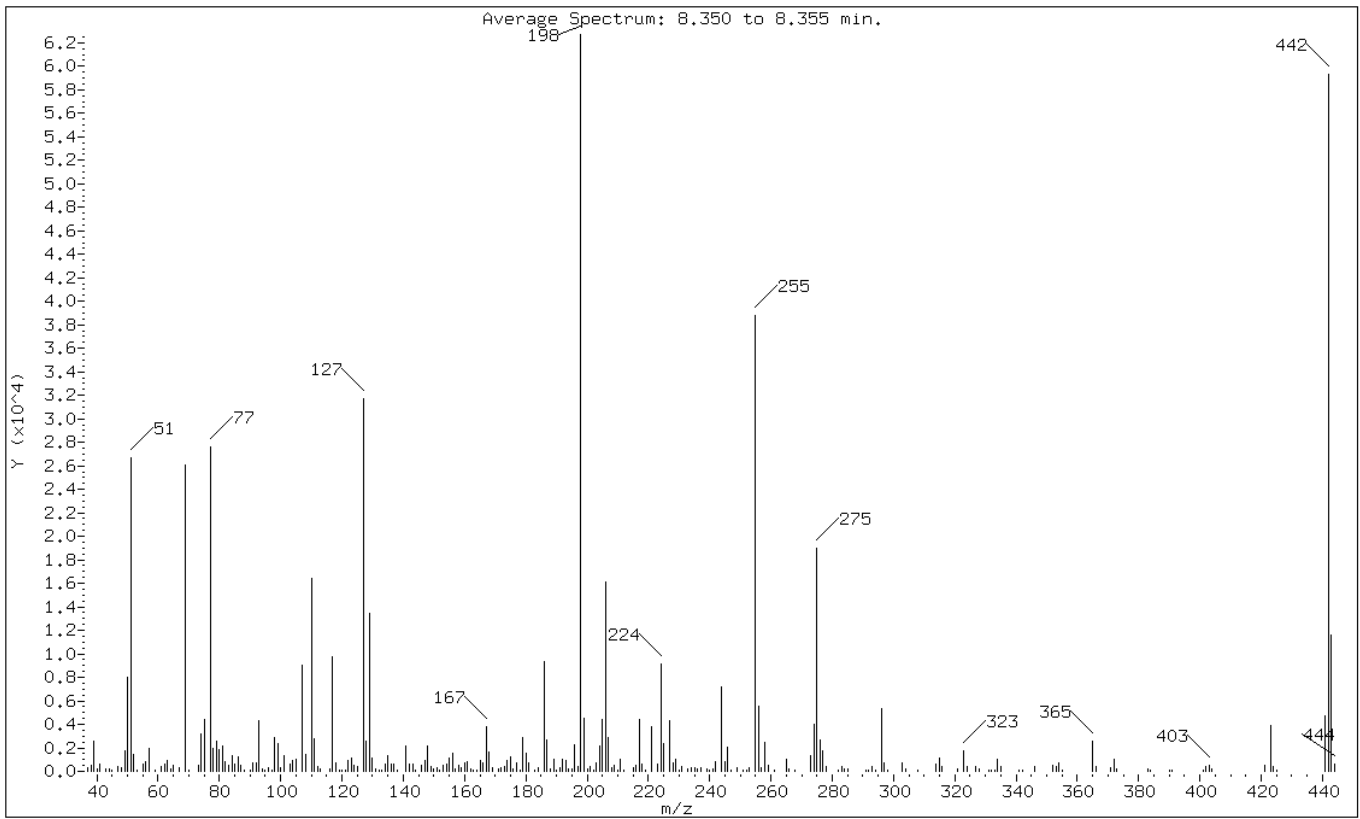
Client ID: DFTPP

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		
+-----+-----+-----+-----+-----+-----+-----+-----+							

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 Client Sample ID: _____ Lab Sample ID: MB 660-136604/1-A
 Matrix: Solid Lab File ID: 1DD22005.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 04/18/2013 15:43
 Sample wt/vol: 15.38(g) Date Analyzed: 04/22/2013 11:30
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136733 Units: ug/Kg

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	5.9
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	6.9
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	6.9
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.8	U	7.8	3.8
129-00-0	Pyrene	20	U	20	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	63		30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22005.D
 Lab Smp Id: MB 660-136604/1-A
 Inj Date : 22-APR-2013 11:30
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : MB 660-136604/1-A
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
 Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 5 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.380	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.055	6.054	(1.000)	2232943	40.0000	
* 6 Acenaphthene-d10	164		7.736	7.734	(1.000)	1323504	40.0000	
* 9 Phenanthrene-d10	188		8.993	8.998	(1.000)	2206229	40.0000	
\$ 13 o-Terphenyl	230		9.304	9.309	(1.035)	208113	6.26053	410
* 17 Chrysene-d12	240		11.302	11.307	(1.000)	2159386	40.0000	
* 22 Perylene-d12	264		13.118	13.122	(1.000)	2217702	40.0000	

Data File: 1DD22005.D

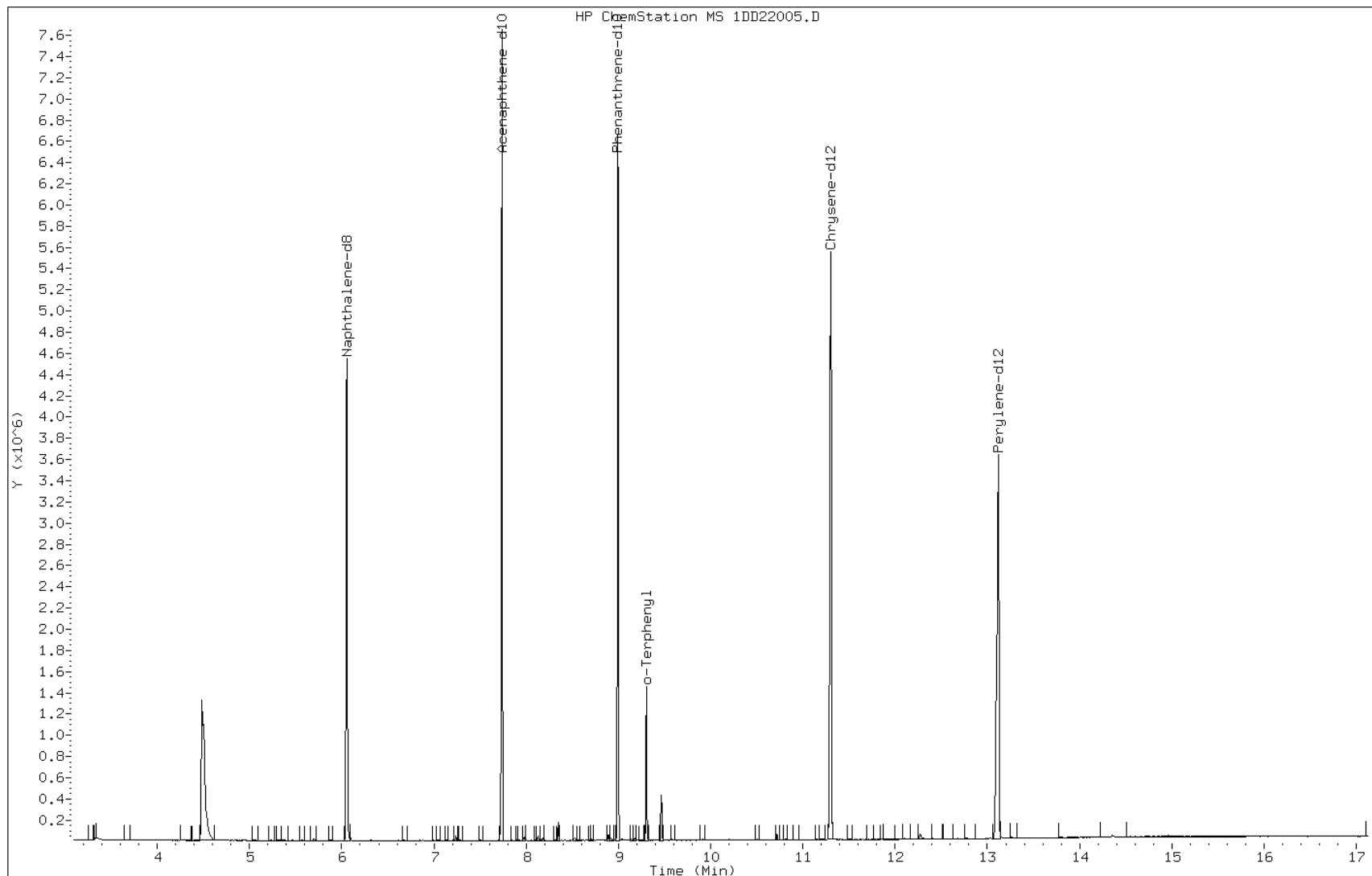
Date: 22-APR-2013 11:30

Client ID:

Instrument: BSMSD.i

Sample Info: MB 660-136604/1-A

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 Client Sample ID: _____ Lab Sample ID: MB 660-136660/1-A
 Matrix: Solid Lab File ID: 1DD23008.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 04/19/2013 15:35
 Sample wt/vol: 14.92(g) Date Analyzed: 04/23/2013 15:37
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136756 Units: ug/Kg

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

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

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/l)	FINAL (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

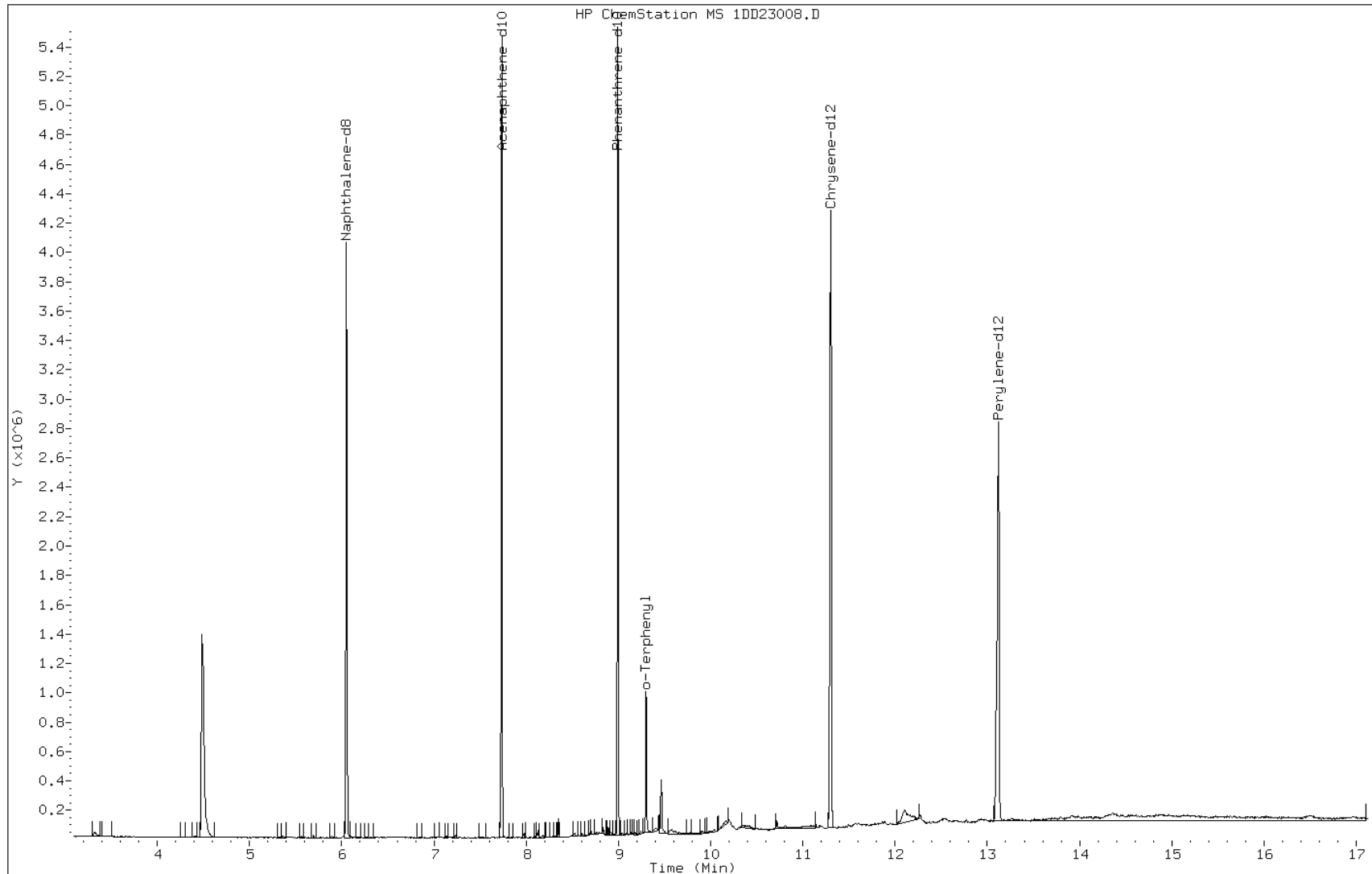
Date: 23-APR-2013 15:37

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: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 Client Sample ID: _____ Lab Sample ID: LCS 660-136604/2-A
 Matrix: Solid Lab File ID: 1DD22006.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 04/18/2013 15:43
 Sample wt/vol: 15.16(g) Date Analyzed: 04/22/2013 11:53
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136733 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	450		99	20
208-96-8	Acenaphthylene	469		40	4.9
120-12-7	Anthracene	453		8.3	4.2
56-55-3	Benzo[a]anthracene	476		7.9	3.9
50-32-8	Benzo[a]pyrene	427		10	5.1
205-99-2	Benzo[b]fluoranthene	482		12	6.0
191-24-2	Benzo[g,h,i]perylene	480		20	4.4
207-08-9	Benzo[k]fluoranthene	482		7.9	3.6
218-01-9	Chrysene	459		8.9	4.5
53-70-3	Dibenz(a,h)anthracene	501		20	4.1
206-44-0	Fluoranthene	479		20	4.0
86-73-7	Fluorene	481		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	481		20	7.0
90-12-0	1-Methylnaphthalene	467		40	4.4
91-57-6	2-Methylnaphthalene	455		40	7.0
91-20-3	Naphthalene	440		40	4.4
85-01-8	Phenanthrene	444		7.9	3.9
129-00-0	Pyrene	448		20	3.7

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22006.D
 Lab Smp Id: LCS 660-136604/2-A
 Inj Date : 22-APR-2013 11:53
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : LCS 660-136604/2-A
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
 Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 6 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.160	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.051	6.054	(1.000)	1931895	40.0000		
* 6 Acenaphthene-d10	164		7.737	7.734	(1.000)	1141255	40.0000		
* 9 Phenanthrene-d10	188		8.994	8.998	(1.000)	1907584	40.0000		
\$ 13 o-Terphenyl	230		9.306	9.309	(1.035)	198982	6.92297	460	
* 17 Chrysene-d12	240		11.303	11.307	(1.000)	1920971	40.0000		
* 22 Perylene-d12	264		13.119	13.122	(1.000)	1914100	40.0000		
2 Naphthalene	128		6.074	6.077	(1.004)	320453	6.67357	440	
3 2-Methylnaphthalene	142		6.779	6.783	(1.120)	213795	6.89722	450	
4 1-Methylnaphthalene	142		6.873	6.877	(1.136)	207428	7.08617	470	
5 Acenaphthylene	152		7.608	7.611	(0.983)	343399	7.10929	470	
7 Acenaphthene	154		7.760	7.764	(1.003)	203580	6.82793	450	
8 Fluorene	166		8.201	8.204	(1.060)	257419	7.29070	480	
10 Phenanthrene	178		9.012	9.015	(1.002)	353481	6.72736	440	
11 Anthracene	178		9.053	9.056	(1.007)	358478	6.87382	450	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.194	9.197 (1.022)		290517	6.31550	420
14 Fluoranthene	202	9.993	10.002 (1.111)		392320	7.25577	480
15 Pyrene	202	10.181	10.184 (0.901)		391971	6.79483	450
16 Benzo(a)anthracene	228	11.286	11.289 (0.998)		400828	7.21704	480
18 Chrysene	228	11.327	11.330 (1.002)		362453	6.96008	460
19 Benzo(b)fluoranthene	252	12.572	12.582 (0.958)		349587	7.31129	480
20 Benzo(k)fluoranthene	252	12.608	12.623 (0.961)		368258	7.31063	480
21 Benzo(a)pyrene	252	13.019	13.034 (0.992)		310643	6.46599	430
23 Indeno(1,2,3-cd)pyrene	276	14.688	14.709 (1.120)		373399	7.28901	480(M)
24 Dibenzo(a,h)anthracene	278	14.717	14.732 (1.122)		366455	7.59645	500
25 Benzo(g,h,i)perylene	276	15.116	15.143 (1.152)		358749	7.27315	480

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD22006.D

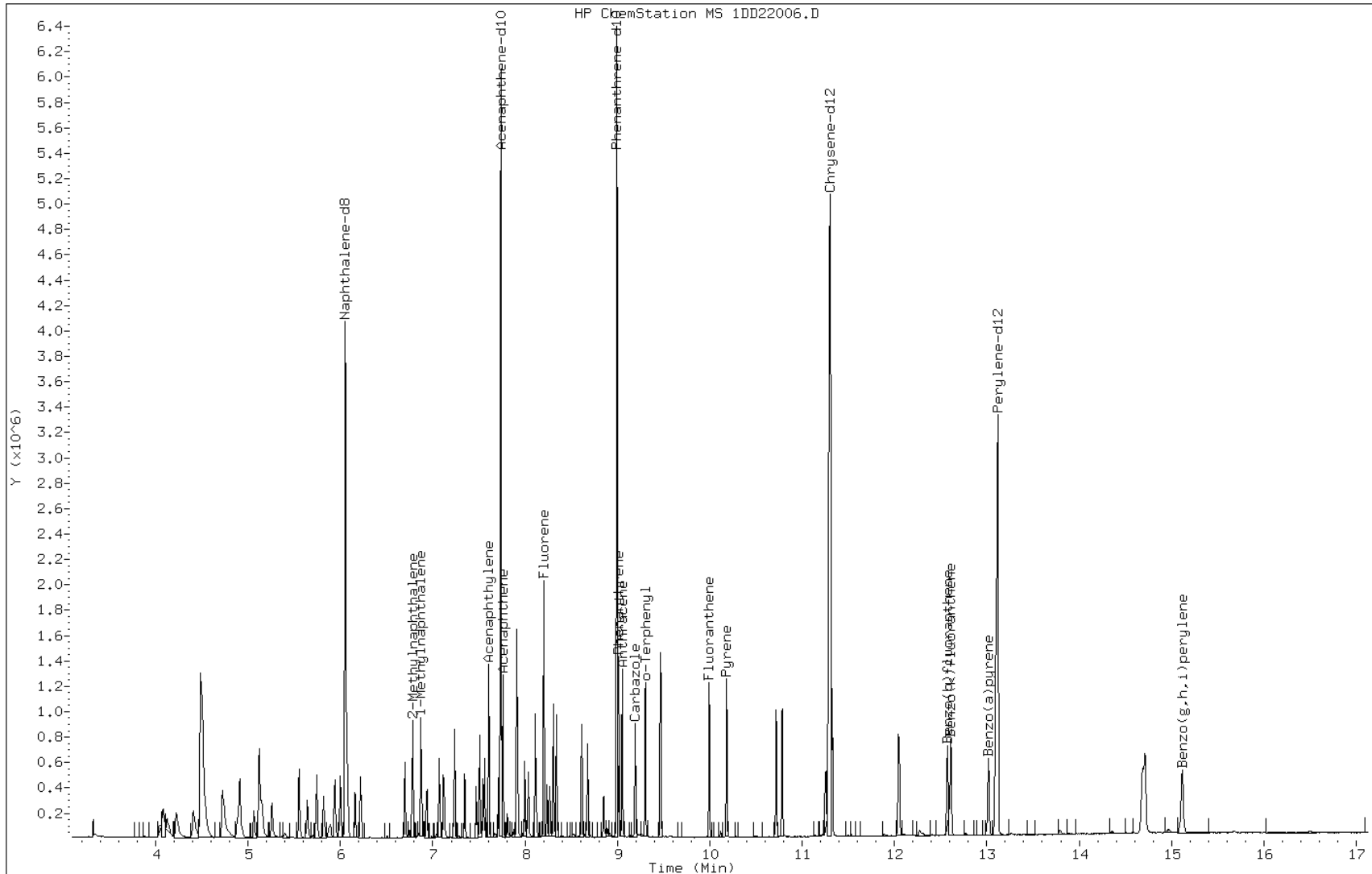
Date: 22-APR-2013 11:53

Client ID:

Instrument: BSMSD.i

Sample Info: LCS 660-136604/2-A

Operator: SCC

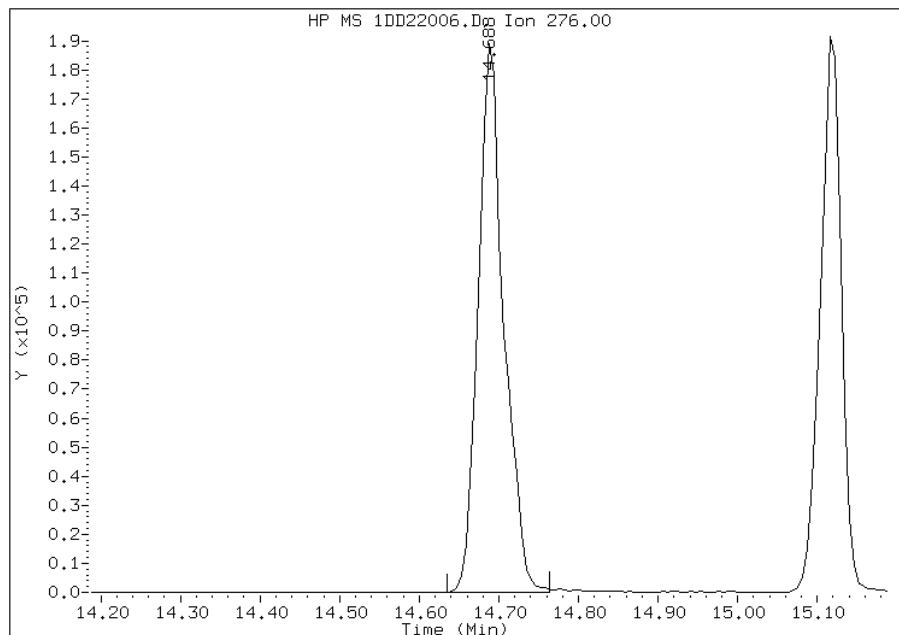


Manual Integration Report

Data File: 1DD22006.D
Inj. Date and Time: 22-APR-2013 11:53
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

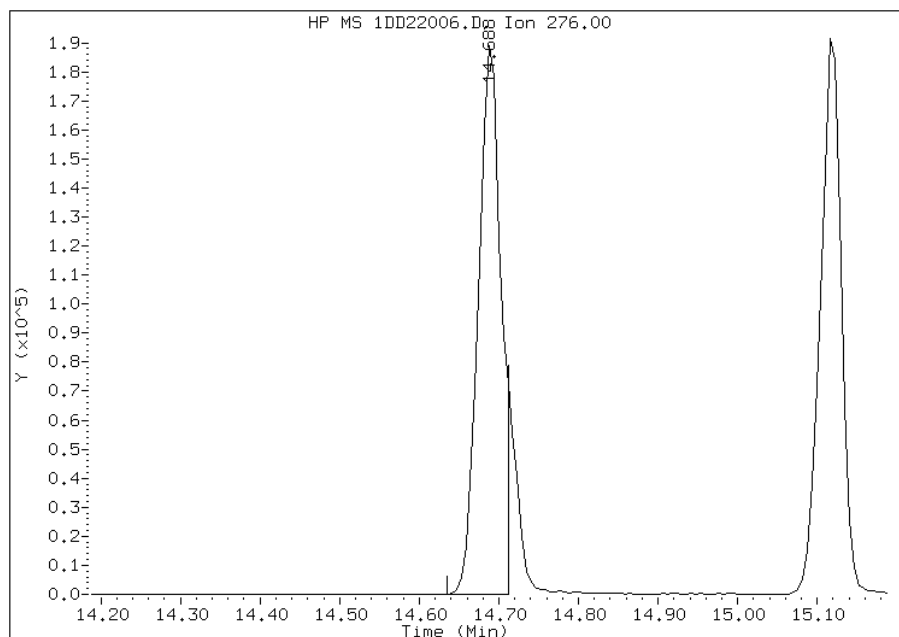
Processing Integration Results

RT: 14.69
Response: 420841
Amount: 8
Conc: 542



Manual Integration Results

RT: 14.69
Response: 373399
Amount: 7
Conc: 481



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 09:23
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 Client Sample ID: _____ Lab Sample ID: LCS 660-136660/2-A
 Matrix: Solid Lab File ID: 1DD23009.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 04/19/2013 15:35
 Sample wt/vol: 15.32 (g) Date Analyzed: 04/23/2013 15:59
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136756 Units: ug/Kg

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

Semivolatiles 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

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/l)	FINAL (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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						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

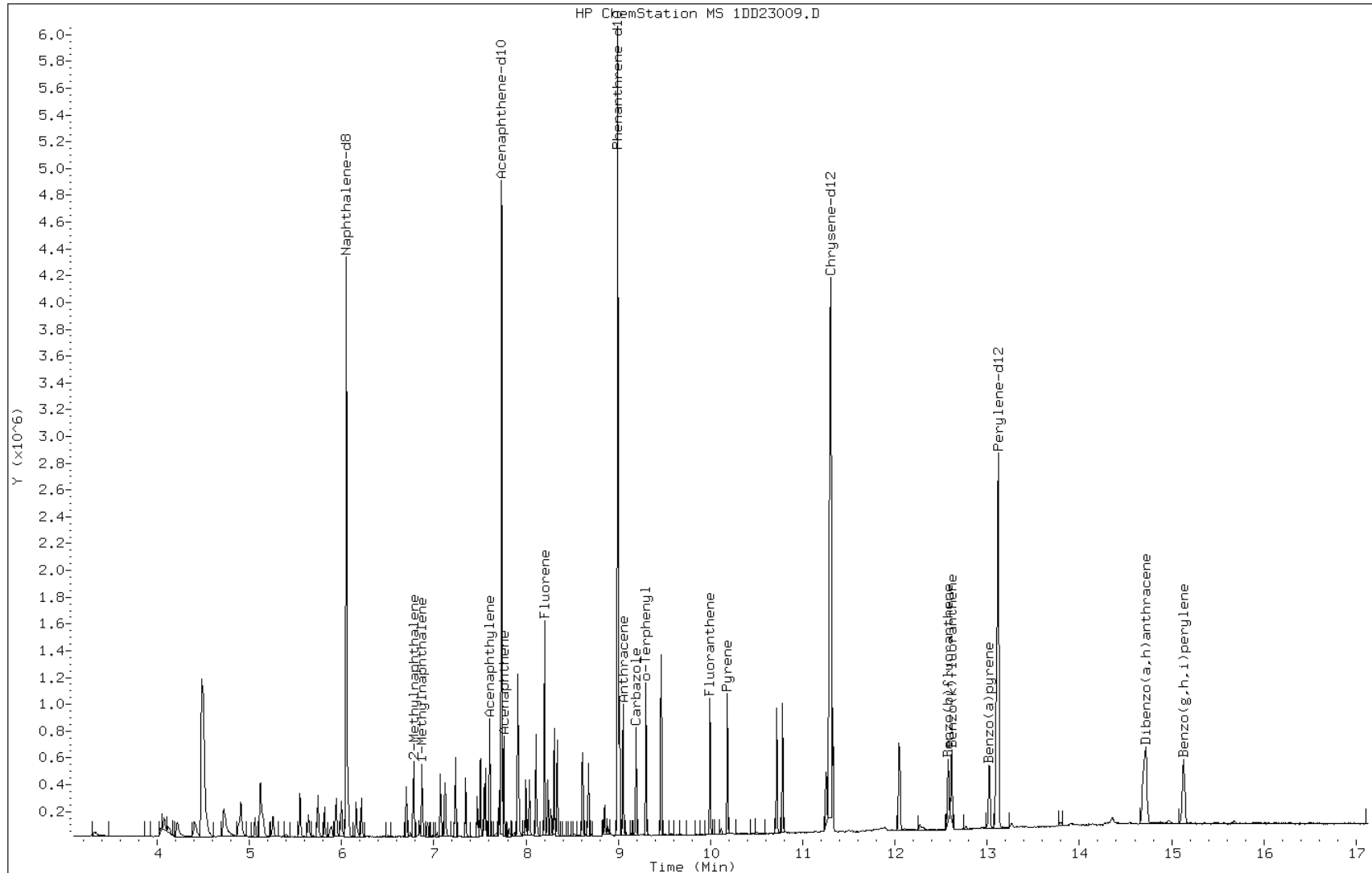
Date: 23-APR-2013 15:59

Client ID:

Instrument: BSMSD.i

Sample Info: LCS 660-136660/2-A

Operator: SCC

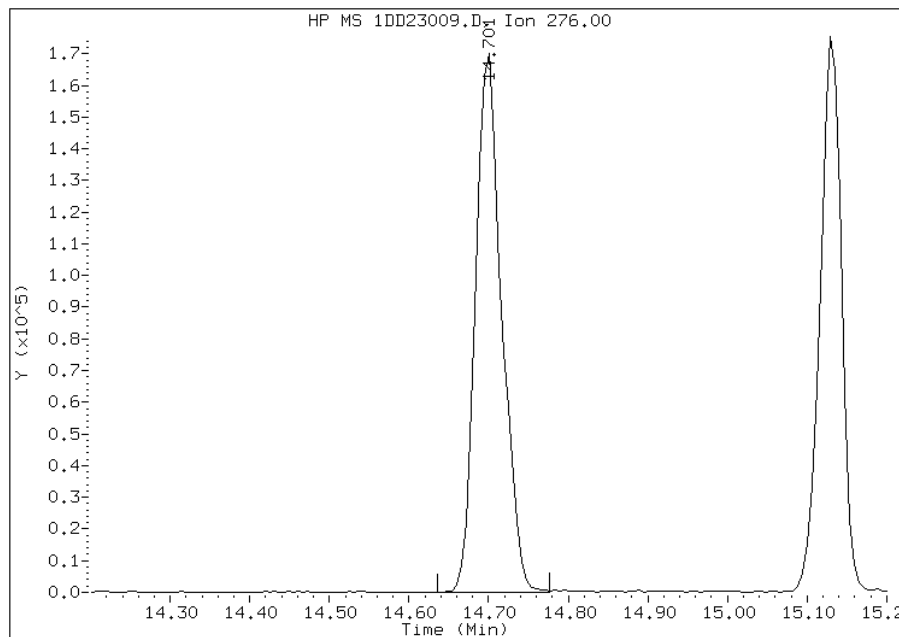


Manual Integration Report

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

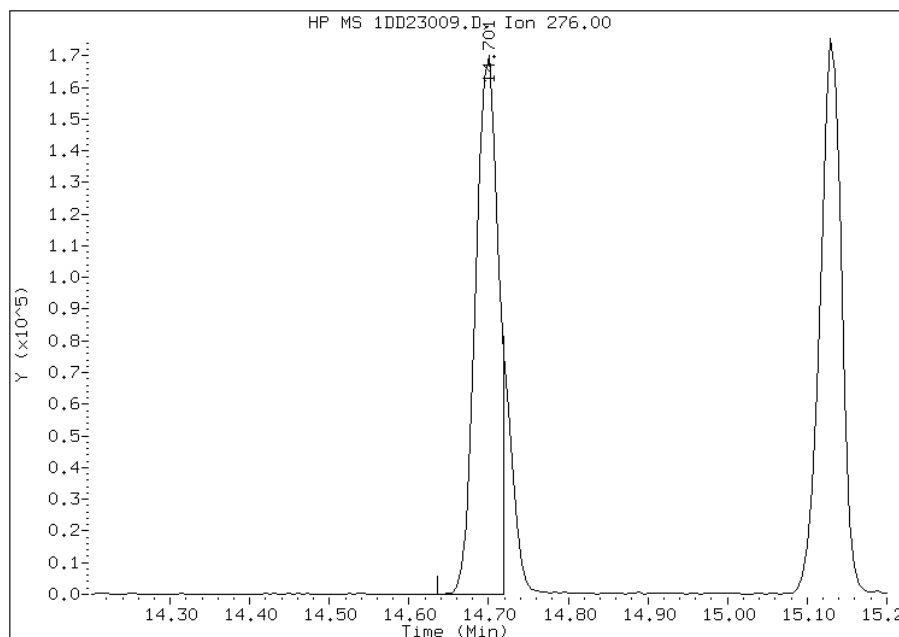
Processing Integration Results

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: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 Client Sample ID: _____ Lab Sample ID: 680-89275-A-21-B MS
 Matrix: Solid Lab File ID: 1DD22008.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 04/18/2013 15:43
 Sample wt/vol: 15.39(g) Date Analyzed: 04/22/2013 12:38
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 25.1 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136733 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	478		130	26
208-96-8	Acenaphthylene	865		52	6.5
120-12-7	Anthracene	754		11	5.5
56-55-3	Benzo[a]anthracene	1430		10	5.1
50-32-8	Benzo[a]pyrene	1360		14	6.8
205-99-2	Benzo[b]fluoranthene	2150		16	7.9
191-24-2	Benzo[g,h,i]perylene	1150		26	5.7
207-08-9	Benzo[k]fluoranthene	1060		10	4.7
218-01-9	Chrysene	1470		12	5.9
53-70-3	Dibenz(a,h)anthracene	765		26	5.3
206-44-0	Fluoranthene	2060		26	5.2
86-73-7	Fluorene	512		26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	1150		26	9.2
90-12-0	1-Methylnaphthalene	603		52	5.7
91-57-6	2-Methylnaphthalene	659		52	9.2
91-20-3	Naphthalene	832		52	5.7
85-01-8	Phenanthrene	1090		10	5.1
129-00-0	Pyrene	1510		26	4.8

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22008.D
 Lab Smp Id: 680-89275-A-21-B MS
 Inj Date : 22-APR-2013 12:38
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89275-A-21-B MS
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
 Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 8 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.390	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL			
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)
* 1 Naphthalene-d8	136	6.054	6.054	(1.000)	2093932	40.0000	
* 6 Acenaphthene-d10	164	7.740	7.734	(1.000)	1246507	40.0000	
* 9 Phenanthrene-d10	188	8.998	8.998	(1.000)	2071815	40.0000	
\$ 13 o-Terphenyl	230	9.303	9.309	(1.034)	167283	5.35875	350
* 17 Chrysene-d12	240	11.313	11.307	(1.000)	2259125	40.0000	
* 22 Perylene-d12	264	13.146	13.122	(1.000)	2571607	40.0000	
2 Naphthalene	128	6.078	6.077	(1.004)	498993	9.58758	620
3 2-Methylnaphthalene	142	6.783	6.783	(1.120)	255054	7.59153	490
4 1-Methylnaphthalene	142	6.877	6.877	(1.136)	220606	6.95317	450
5 Acenaphthylene	152	7.611	7.611	(0.983)	526149	9.97296	650
7 Acenaphthene	154	7.764	7.764	(1.003)	179295	5.50567	360
8 Fluorene	166	8.205	8.204	(1.060)	227494	5.89911	380
10 Phenanthrene	178	9.015	9.015	(1.002)	714932	12.5278	810
11 Anthracene	178	9.057	9.056	(1.007)	492088	8.68783	560

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.198	9.197	(1.022)	318037	6.36570	410
14 Fluoranthene	202	10.003	10.002	(1.112)	1397459	23.7966	1500(R)
15 Pyrene	202	10.191	10.184	(0.901)	1180551	17.4016	1100(R)
16 Benzo(a)anthracene	228	11.301	11.289	(0.999)	1076374	16.4795	1100(R)
18 Chrysene	228	11.336	11.330	(1.002)	1040248	16.9856	1100(R)
19 Benzo(b)fluoranthene	252	12.605	12.582	(0.959)	1590586	24.7603	1600(R)
20 Benzo(k)fluoranthene	252	12.635	12.623	(0.961)	829787	12.2611	800
21 Benzo(a)pyrene	252	13.052	13.034	(0.993)	1009299	15.6370	1000(R)
23 Indeno(1,2,3-cd)pyrene	276	14.744	14.709	(1.122)	909071	13.2085	860(RM)
24 Dibenzo(a,h)anthracene	278	14.762	14.732	(1.123)	571257	8.81417	570
25 Benzo(g,h,i)perylene	276	15.185	15.143	(1.155)	881863	13.3074	860(R)

QC Flag Legend

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

Data File: 1DD22008.D

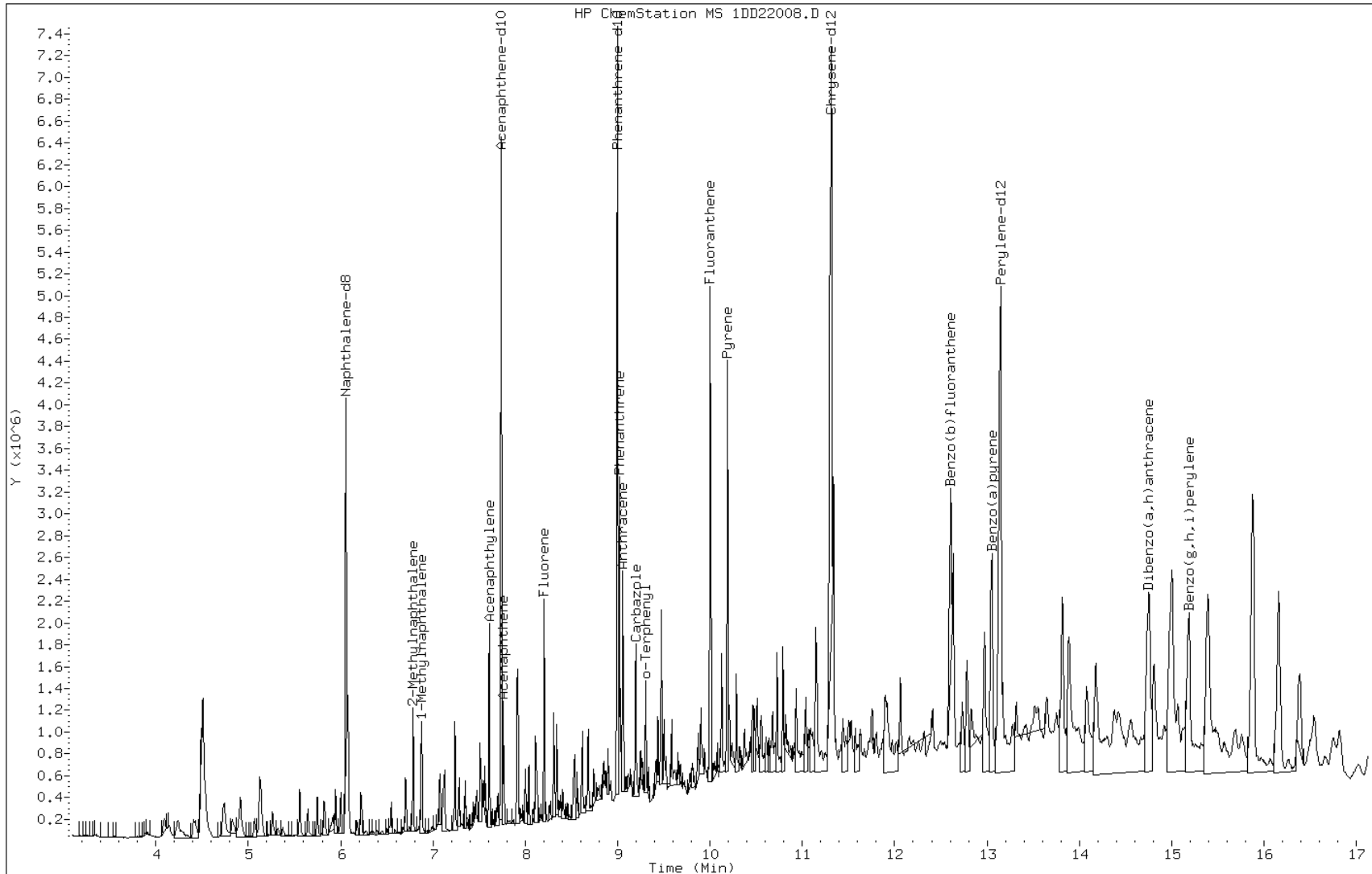
Date: 22-APR-2013 12:38

Client ID:

Instrument: BSMSD.i

Sample Info: 680-89275-A-21-B MS

Operator: SCC

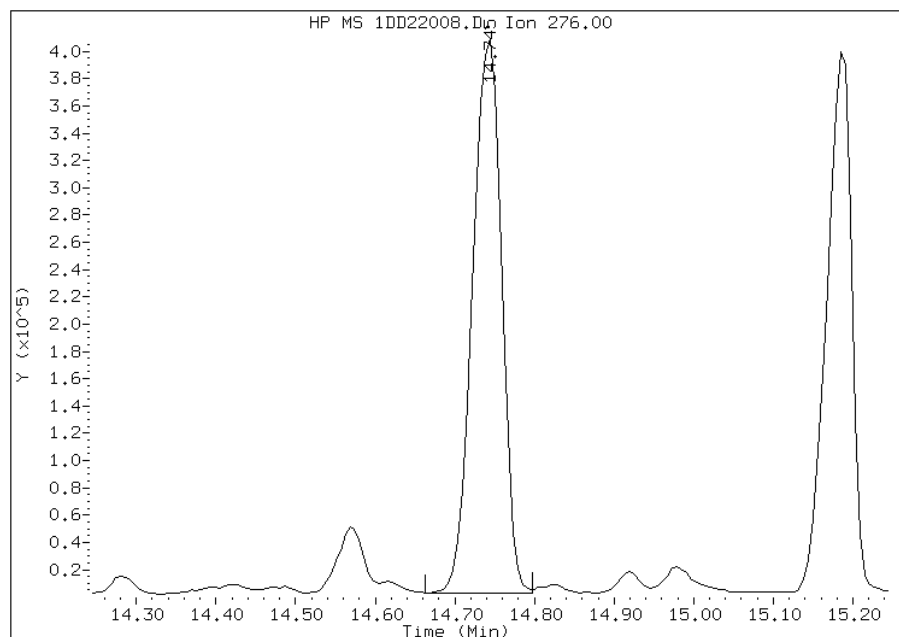


Manual Integration Report

Data File: 1DD22008.D
Inj. Date and Time: 22-APR-2013 12:38
Instrument ID: BSM5D.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

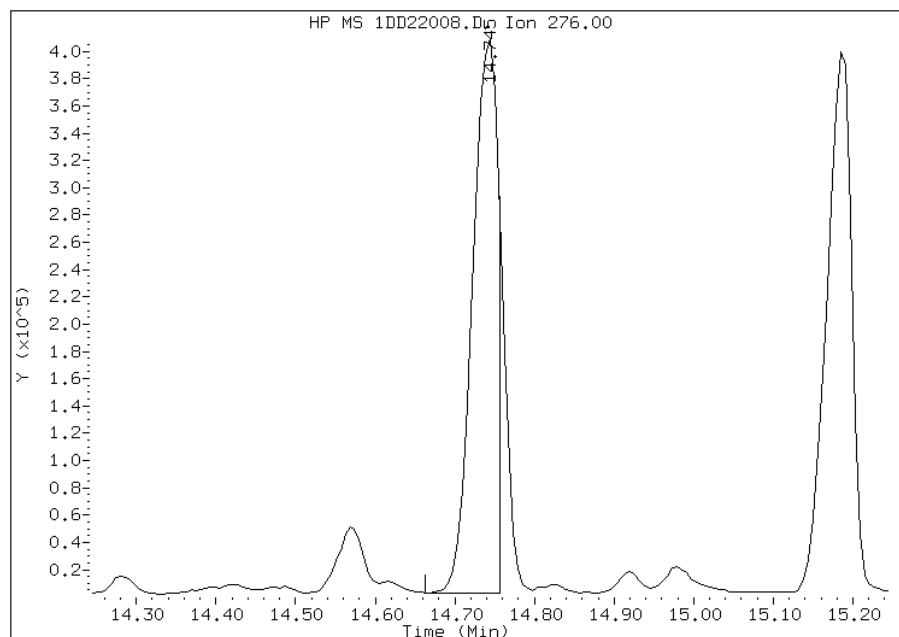
Processing Integration Results

RT: 14.74
Response: 1031008
Amount: 15
Conc: 973



Manual Integration Results

RT: 14.74
Response: 909071
Amount: 13
Conc: 858



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 09:24
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 Client Sample ID: CV1350A-CS MS Lab Sample ID: 680-89328-25 MS
 Matrix: Solid Lab File ID: 1DD23011.D
 Analysis Method: 8270C LL Date Collected: 04/11/2013 14:10
 Extract. Method: 3546 Date Extracted: 04/19/2013 15:35
 Sample wt/vol: 15.00(g) Date Analyzed: 04/23/2013 16:44
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 22.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136756 Units: ug/Kg

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

Semivolatiles 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	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						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

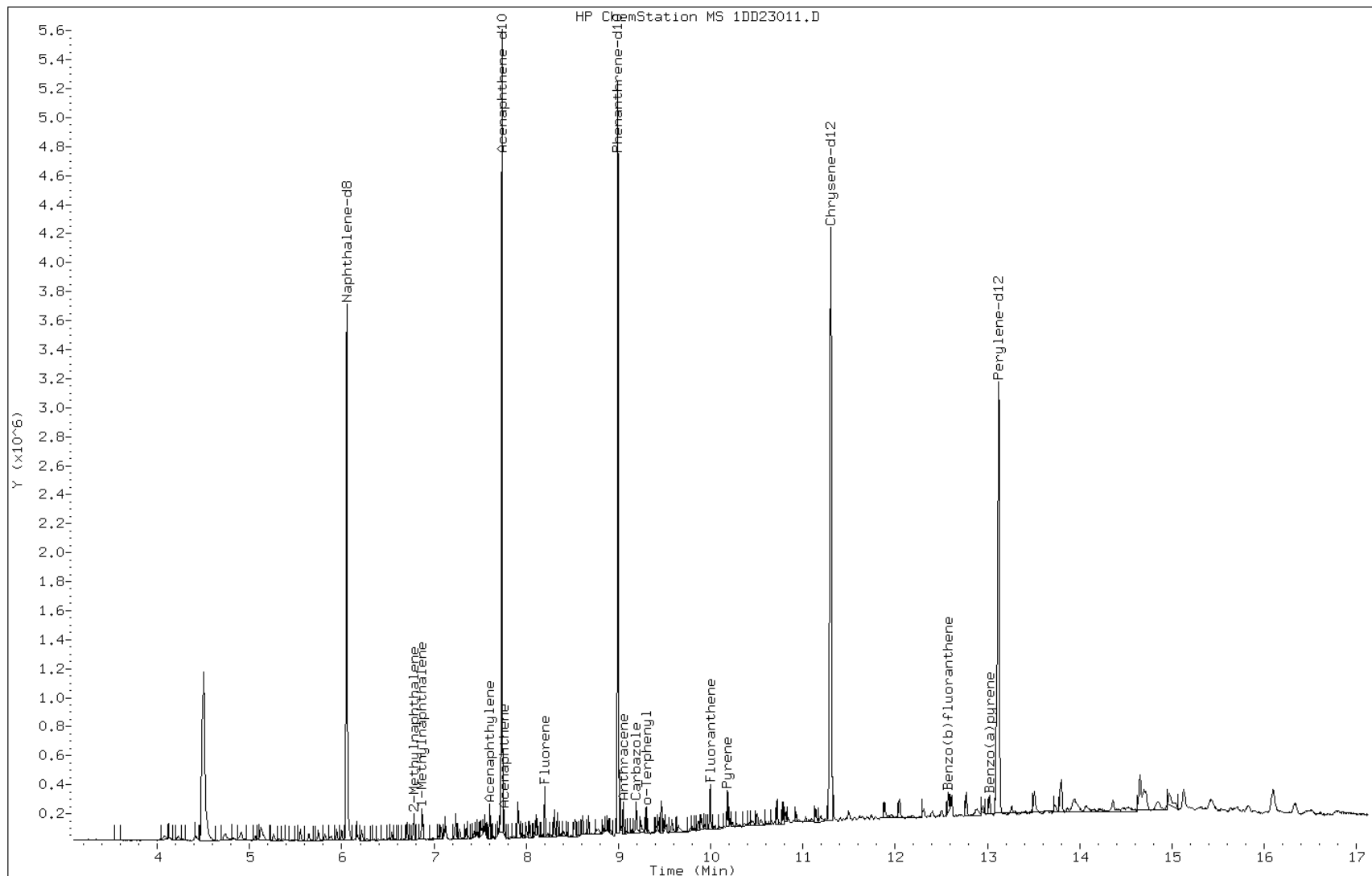
Date: 23-APR-2013 16:44

Client ID:

Instrument: BSMSD.i

Sample Info: 680-89328-A-25-B MS

Operator: SCC

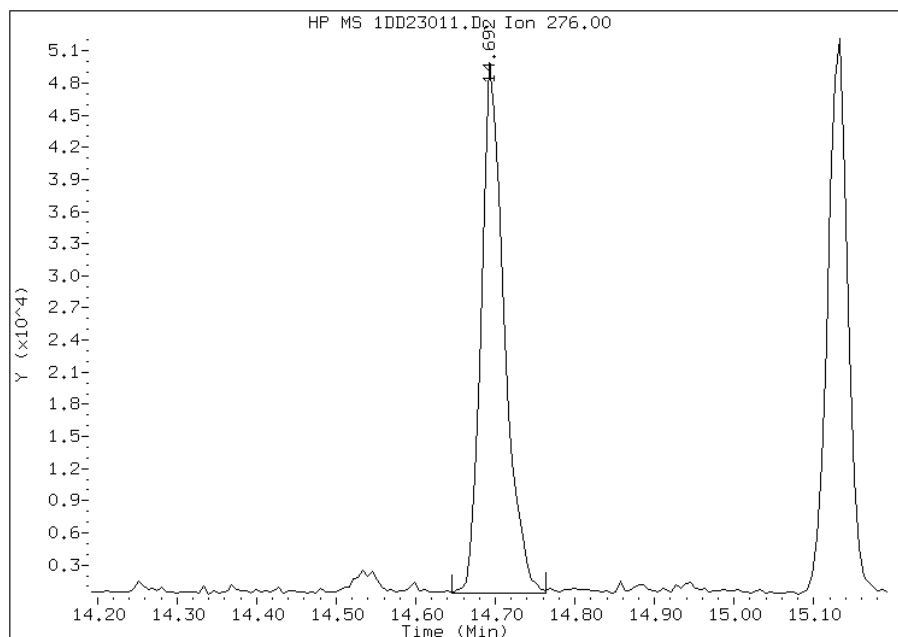


Manual Integration Report

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

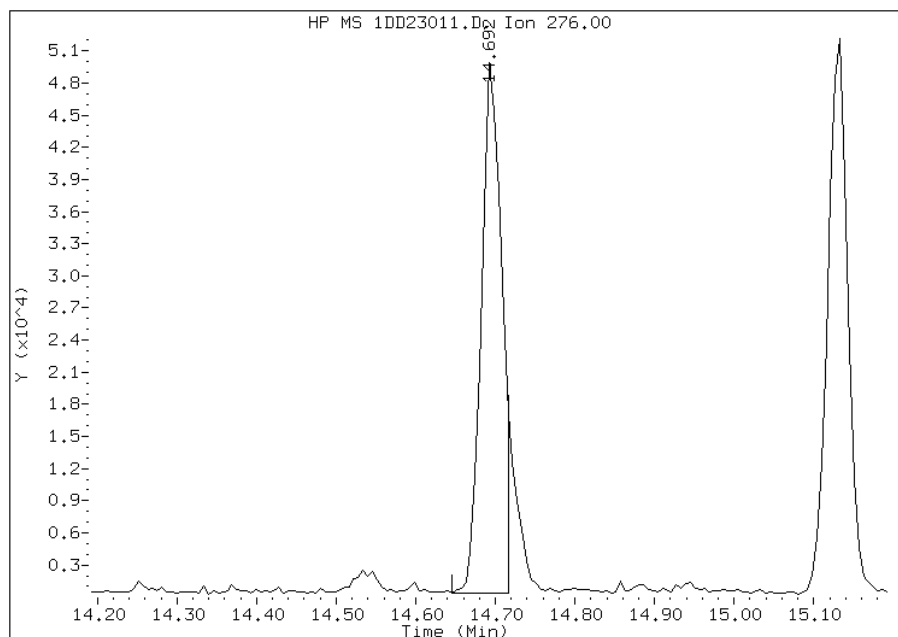
Processing Integration Results

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: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 Client Sample ID: _____ Lab Sample ID: 680-89275-A-21-C MSD
 Matrix: Solid Lab File ID: 1DD22009.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 04/18/2013 15:43
 Sample wt/vol: 15.39(g) Date Analyzed: 04/22/2013 13:00
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 25.1 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136733 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	571		130	26
208-96-8	Acenaphthylene	1010		52	6.5
120-12-7	Anthracene	957		11	5.5
56-55-3	Benzo[a]anthracene	1750		10	5.1
50-32-8	Benzo[a]pyrene	1700		14	6.8
205-99-2	Benzo[b]fluoranthene	2660		16	7.9
191-24-2	Benzo[g,h,i]perylene	1270		26	5.7
207-08-9	Benzo[k]fluoranthene	1260		10	4.7
218-01-9	Chrysene	1870		12	5.9
53-70-3	Dibenz(a,h)anthracene	865		26	5.3
206-44-0	Fluoranthene	2660		26	5.2
86-73-7	Fluorene	641		26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	1290		26	9.2
90-12-0	1-Methylnaphthalene	722		52	5.7
91-57-6	2-Methylnaphthalene	778		52	9.2
91-20-3	Naphthalene	973		52	5.7
85-01-8	Phenanthrene	1420		10	5.1
129-00-0	Pyrene	1850		26	4.8

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\1DD22009.D
 Lab Smp Id: 680-89275-A-21-C MS
 Inj Date : 22-APR-2013 13:00
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89275-A-21-C MSD
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042213.b\dFASTPAHi.m
 Meth Date : 22-Apr-2013 11:04 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 9 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.390	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.055	6.054	(1.000)	1863685	40.0000	
* 6 Acenaphthene-d10	164		7.741	7.734	(1.000)	1105330	40.0000	
* 9 Phenanthrene-d10	188		8.999	8.998	(1.000)	1822597	40.0000	
\$ 13 o-Terphenyl	230		9.304	9.309	(1.034)	178395	6.49613	420
* 17 Chrysene-d12	240		11.319	11.307	(1.000)	2040070	40.0000	
* 22 Perylene-d12	264		13.147	13.122	(1.000)	2299548	40.0000	
2 Naphthalene	128		6.079	6.077	(1.004)	519360	11.2117	730
3 2-Methylnaphthalene	142		6.784	6.783	(1.120)	268040	8.96369	580
4 1-Methylnaphthalene	142		6.878	6.877	(1.136)	234965	8.32068	540
5 Acenaphthylene	152		7.612	7.611	(0.983)	544974	11.6491	760
7 Acenaphthene	154		7.765	7.764	(1.003)	190031	6.58066	430
8 Fluorene	166		8.205	8.204	(1.060)	252708	7.38990	480
10 Phenanthrene	178		9.016	9.015	(1.002)	821216	16.3580	1100(R)
11 Anthracene	178		9.057	9.056	(1.007)	549489	11.0278	720

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.198	9.197	(1.022)	341909	7.77928	500
14 Fluoranthene	202	10.003	10.002	(1.112)	1581341	30.6099	2000(R)
15 Pyrene	202	10.191	10.184	(0.900)	1303222	21.2725	1400(R)
16 Benzo(a)anthracene	228	11.302	11.289	(0.998)	1192368	20.2156	1300(R)
18 Chrysene	228	11.343	11.330	(1.002)	1190647	21.5289	1400(R)
19 Benzo(b)fluoranthene	252	12.612	12.582	(0.959)	1758451	30.6120	2000(R)
20 Benzo(k)fluoranthene	252	12.641	12.623	(0.962)	877480	14.4998	940(R)
21 Benzo(a)pyrene	252	13.059	13.034	(0.993)	1129163	19.5638	1300(R)
23 Indeno(1,2,3-cd)pyrene	276	14.751	14.709	(1.122)	914361	14.8572	960(RM)
24 Dibenzo(a,h)anthracene	278	14.768	14.732	(1.123)	577847	9.97068	650
25 Benzo(g,h,i)perylene	276	15.197	15.143	(1.156)	864547	14.5896	950(R)

QC Flag Legend

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

Data File: 1DD22009.D

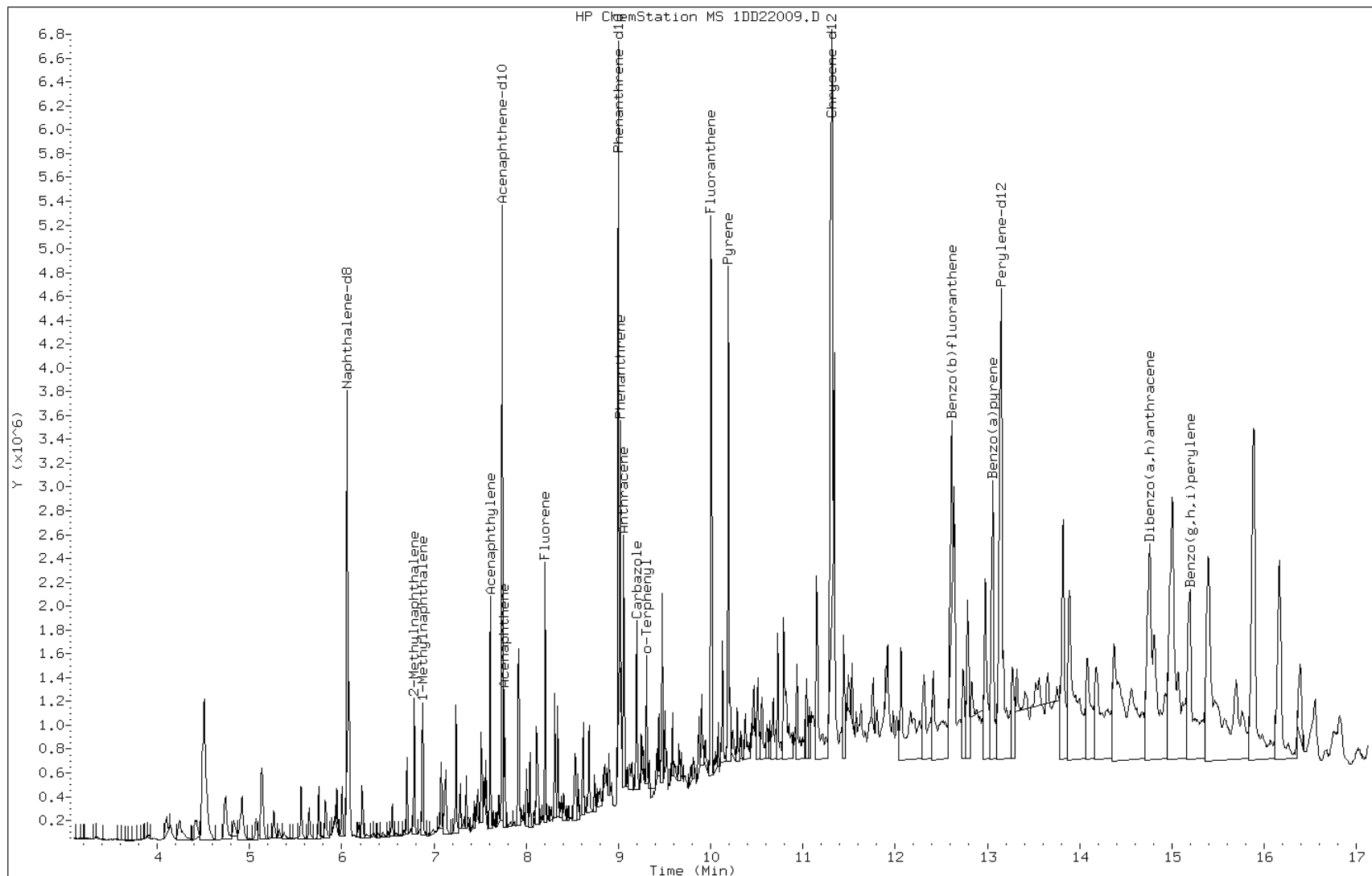
Date: 22-APR-2013 13:00

Client ID:

Instrument: BSMSD.i

Sample Info: 680-89275-A-21-C MSD

Operator: SCC

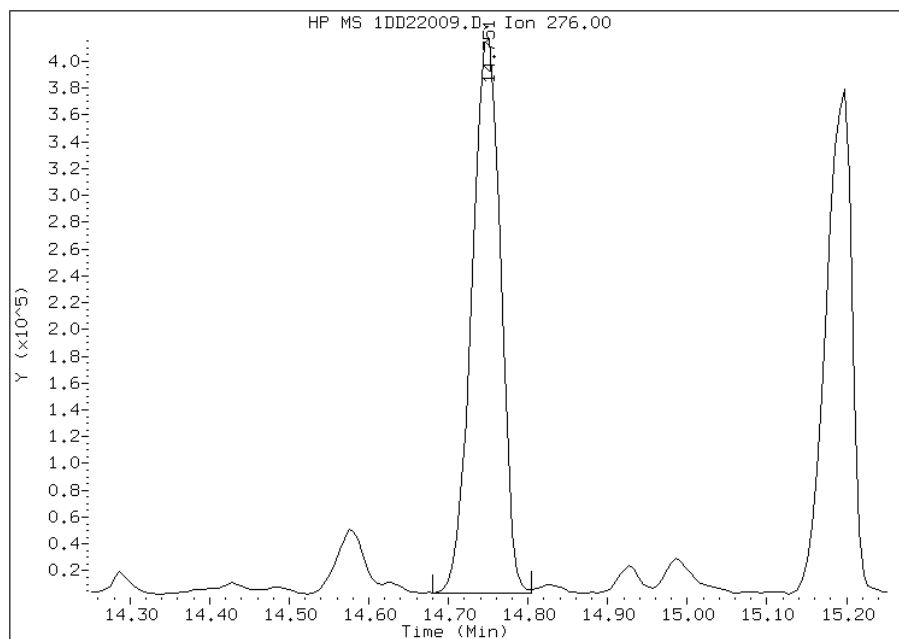


Manual Integration Report

Data File: 1DD22009.D
Inj. Date and Time: 22-APR-2013 13:00
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

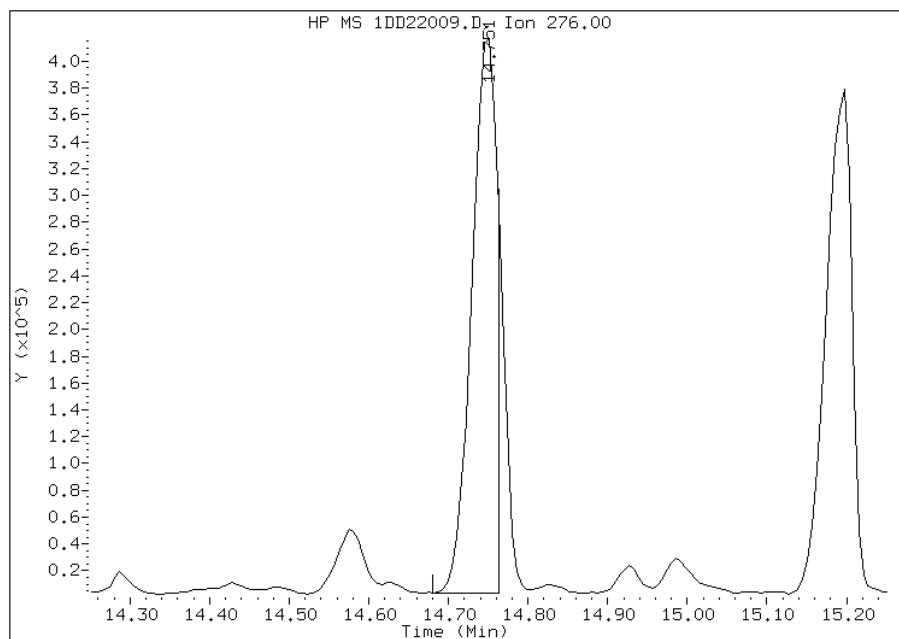
Processing Integration Results

RT: 14.75
Response: 1042444
Amount: 17
Conc: 1101



Manual Integration Results

RT: 14.75
Response: 914361
Amount: 15
Conc: 965



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 09:25
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89328-2
 SDG No.: 68089328-2
 Client Sample ID: CV1350A-CS MSD Lab Sample ID: 680-89328-25 MSD
 Matrix: Solid Lab File ID: 1DD23012.D
 Analysis Method: 8270C LL Date Collected: 04/11/2013 14:10
 Extract. Method: 3546 Date Extracted: 04/19/2013 15:35
 Sample wt/vol: 15.00(g) Date Analyzed: 04/23/2013 17:07
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 22.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136756 Units: ug/Kg

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

Semivolatiles 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						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

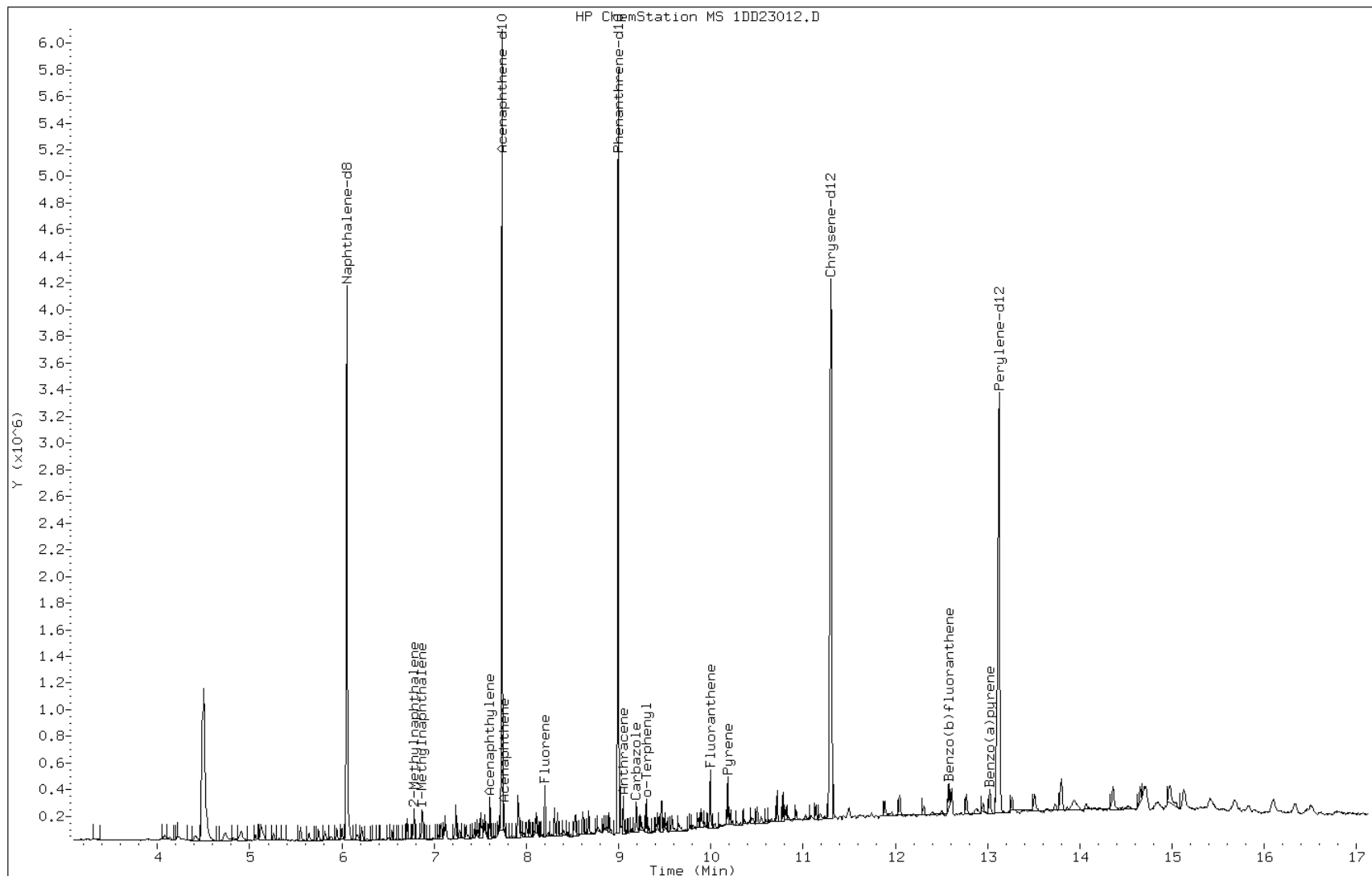
Date: 23-APR-2013 17:07

Client ID:

Instrument: BSMSD.i

Sample Info: 680-89328-A-25-C MSD

Operator: SCC

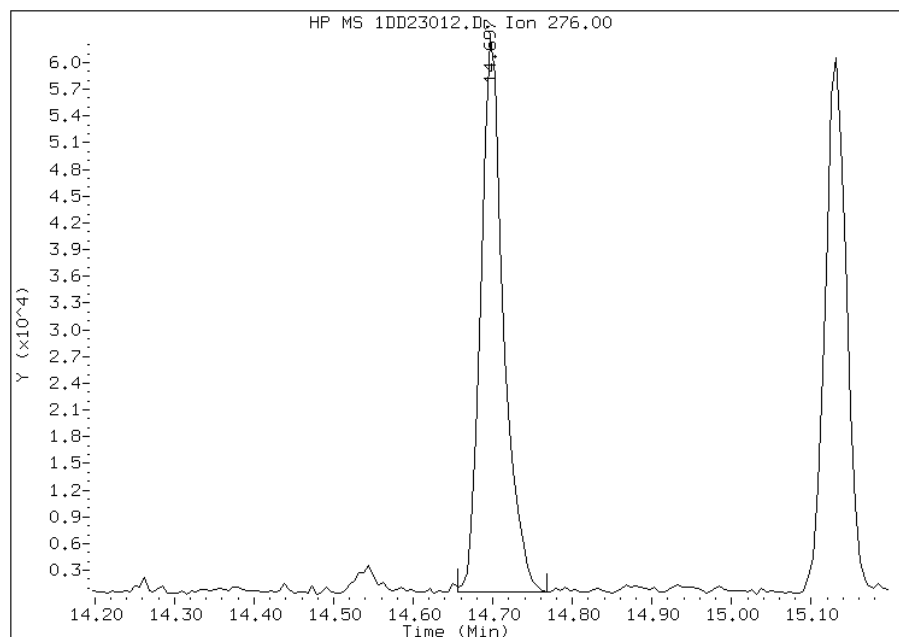


Manual Integration Report

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

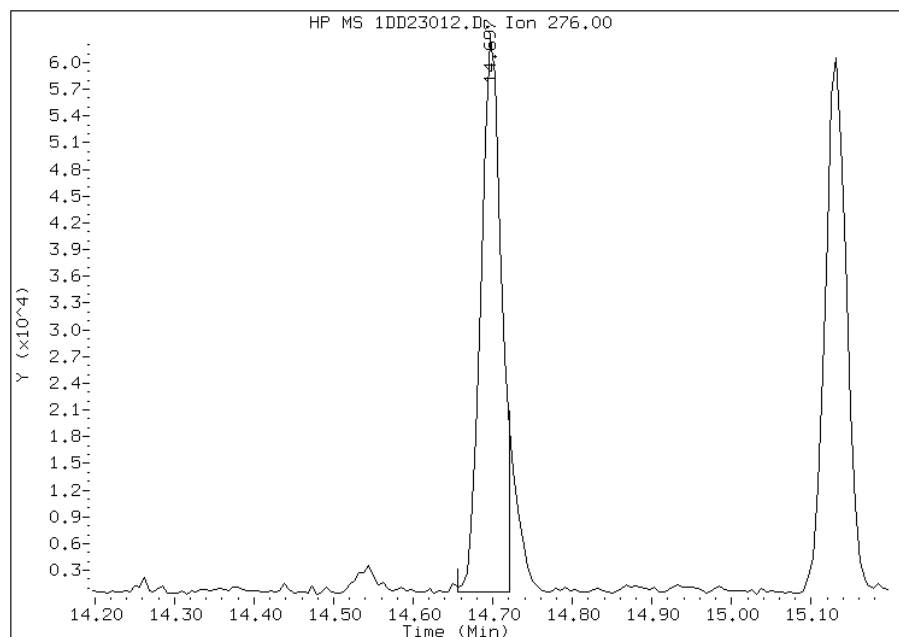
Processing Integration Results

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

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89328-2SDG No.: 68089328-2Instrument ID: BSMD5973 Start Date: 04/04/2013 11:04Analysis Batch Number: 136164 End 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.: 680-89328-2SDG No.: 68089328-2Instrument ID: BSMD5973Start Date: 04/22/2013 09:39Analysis Batch Number: 136733End Date: 04/22/2013 20:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/22/2013 09:39	1		DB-5MS 250 (um)
ZZZZZ		04/22/2013 10:02	1		DB-5MS 250 (um)
DFTPP 660-136733/2		04/22/2013 10:26	1	1DD22002.D	DB-5MS 250 (um)
CCVIS 660-136733/3		04/22/2013 10:43	1	1DD22003.D	DB-5MS 250 (um)
ZZZZZ		04/22/2013 11:07	1		DB-5MS 250 (um)
MB 660-136604/1-A		04/22/2013 11:30	1	1DD22005.D	DB-5MS 250 (um)
LCS 660-136604/2-A		04/22/2013 11:53	1	1DD22006.D	DB-5MS 250 (um)
ZZZZZ		04/22/2013 12:15	1		DB-5MS 250 (um)
680-89275-A-21-B MS		04/22/2013 12:38	1	1DD22008.D	DB-5MS 250 (um)
680-89275-A-21-C MSD		04/22/2013 13:00	1	1DD22009.D	DB-5MS 250 (um)
ZZZZZ		04/22/2013 13:23	1		DB-5MS 250 (um)
ZZZZZ		04/22/2013 13:46	1		DB-5MS 250 (um)
ZZZZZ		04/22/2013 14:08	1		DB-5MS 250 (um)
ZZZZZ		04/22/2013 14:31	1		DB-5MS 250 (um)
ZZZZZ		04/22/2013 14:53	1		DB-5MS 250 (um)
ZZZZZ		04/22/2013 15:16	1		DB-5MS 250 (um)
ZZZZZ		04/22/2013 15:38	1		DB-5MS 250 (um)
ZZZZZ		04/22/2013 16:01	4		DB-5MS 250 (um)
680-89328-21	CV1216A-CS	04/22/2013 16:23	1	1DD22018.D	DB-5MS 250 (um)
680-89328-22	CV1216B-CS	04/22/2013 16:46	1	1DD22019.D	DB-5MS 250 (um)
680-89328-23	CV1335A-CS	04/22/2013 17:09	1	1DD22020.D	DB-5MS 250 (um)
680-89328-24	CV1335B-CS	04/22/2013 17:31	4	1DD22021.D	DB-5MS 250 (um)
680-89328-26	CV1350B-CS	04/22/2013 17:54	1	1DD22022.D	DB-5MS 250 (um)
680-89328-27	CV0695A-CS	04/22/2013 18:16	1	1DD22023.D	DB-5MS 250 (um)
680-89328-28	CV0695A-CSD	04/22/2013 18:39	1	1DD22024.D	DB-5MS 250 (um)
680-89328-29	CV0695B-CS	04/22/2013 19:01	1	1DD22025.D	DB-5MS 250 (um)
680-89328-30	CV0676A-CS-SP	04/22/2013 19:24	1	1DD22026.D	DB-5MS 250 (um)
680-89328-31	CV0676B-CS-SP	04/22/2013 19:46	1	1DD22027.D	DB-5MS 250 (um)
680-89328-32	CV0676C-CS-SP	04/22/2013 20:09	1	1DD22028.D	DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-89328-2SDG No.: 68089328-2Instrument 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)
DFTPP 660-136756/2		04/23/2013 12:28	1		DB-5MS 250 (um)
DFTPP 660-136756/3		04/23/2013 12:50	1	1DD23003.D	DB-5MS 250 (um)
CCV 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)
680-89328-25	CV1350A-CS	04/23/2013 16:22	4	1DD23010.D	DB-5MS 250 (um)
680-89328-25 MS	CV1350A-CS MS	04/23/2013 16:44	4	1DD23011.D	DB-5MS 250 (um)
680-89328-25 MSD	CV1350A-CS 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)
ZZZZZ		04/23/2013 21:15	1		DB-5MS 250 (um)
ZZZZZ		04/23/2013 21:38	4		DB-5MS 250 (um)
ZZZZZ		04/23/2013 22:00	4		DB-5MS 250 (um)
ZZZZZ		04/23/2013 22:23	4		DB-5MS 250 (um)
ZZZZZ		04/23/2013 22:45	4		DB-5MS 250 (um)
ZZZZZ		04/23/2013 23:08	1		DB-5MS 250 (um)
ZZZZZ		04/23/2013 23:30	4		DB-5MS 250 (um)
ZZZZZ		04/23/2013 23:53	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 00:16	1		DB-5MS 250 (um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89328-2SDG No.: 68089328-2Batch Number: 136604 Batch Start Date: 04/18/13 15:43 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 04/19/13 13:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179		
MB 660-136604/1		3546, 8270C LL		15.38 g	1 mL		1 mL		
LCS 660-136604/2		3546, 8270C LL		15.16 g	1 mL	1 mL	1 mL		
680-89275-A-21 MS		3546, 8270C LL	T	15.39 g	1 mL	1 mL	1 mL		
680-89275-A-21 MSD		3546, 8270C LL	T	15.39 g	1 mL	1 mL	1 mL		
680-89328-A-21	CV1216A-CS	3546, 8270C LL	T	15.13 g	1 mL		1 mL		
680-89328-A-22	CV1216B-CS	3546, 8270C LL	T	15.09 g	1 mL		1 mL		
680-89328-A-23	CV1335A-CS	3546, 8270C LL	T	14.96 g	1 mL		1 mL		
680-89328-A-24	CV1335B-CS	3546, 8270C LL	T	15.01 g	1 mL		1 mL		
680-89328-A-26	CV1350B-CS	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-89328-A-27	CV0695A-CS	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-89328-A-28	CV0695A-CSD	3546, 8270C LL	T	15.00 g	1 mL		1 mL		
680-89328-A-29	CV0695B-CS	3546, 8270C LL	T	15.47 g	1 mL		1 mL		
680-89328-A-30	CV0676A-CS-SP	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-89328-A-31	CV0676B-CS-SP	3546, 8270C LL	T	15.24 g	1 mL		1 mL		
680-89328-A-32	CV0676C-CS-SP	3546, 8270C LL	T	15.00 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270C LL

Page 1 of 2

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89328-2SDG No.: 68089328-2Batch Number: 136604 Batch Start Date: 04/18/13 15:43 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 04/19/13 13:00

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 69
Microwave Start Time	17:20 4/18/13
Microwave Stop Time	17:55 4/18/13
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

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.: 680-89328-2SDG No.: 68089328-2Batch 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	CV1350A-CS	3546, 8270C LL	T	15.00 g	1 mL		1 mL		
680-89328-A-25 MS	CV1350A-CS	3546, 8270C LL	T	15.00 g	1 mL	1 mL	1 mL		
680-89328-A-25 MSD	CV1350A-CS	3546, 8270C LL	T	15.00 g	1 mL	1 mL	1 mL		

Batch Notes	
Acetone Lot #	EX-ACETON BOT 51
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	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

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.: 680-89328-2

SDG No.: 68089328-2

Batch Number: 136660 Batch Start Date: 04/19/13 15:35 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 04/22/13 11:30

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89328-2

SDG No.: 68089328-2

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
<u>CV1216A-CS</u>	<u>680-89328-21</u>
<u>CV1216B-CS</u>	<u>680-89328-22</u>
<u>CV1335A-CS</u>	<u>680-89328-23</u>
<u>CV1335B-CS</u>	<u>680-89328-24</u>
<u>CV1350A-CS</u>	<u>680-89328-25</u>
<u>CV1350B-CS</u>	<u>680-89328-26</u>
<u>CV0695A-CS</u>	<u>680-89328-27</u>
<u>CV0695A-CSD</u>	<u>680-89328-28</u>
<u>CV0695B-CS</u>	<u>680-89328-29</u>
<u>CV0676A-CS-SP</u>	<u>680-89328-30</u>
<u>CV0676B-CS-SP</u>	<u>680-89328-31</u>
<u>CV0676C-CS-SP</u>	<u>680-89328-32</u>

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89328-2
SDG Number: 68089328-2
Matrix: Solid Instrument ID: Moisture
Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89328-2
SDG Number: 68089328-2
Matrix: Solid Instrument ID: Moisture
Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89328-2
SDG Number: 68089328-2
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: 680-89328-2
SDG Number: 68089328-2
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.: 680-89328-2

SDG No.: 68089328-2

Instrument ID: Moisture Method: Moisture

Start Date: 04/18/2013 06:32 End Date: 04/18/2013 09:44

Lab Sample ID	D / F	T y p e	Time	Analytes															
				M o i s t															
LCS 660-136569/1	1	T	06:32	X															
ZZZZZZ			06:43																
680-89328-23	1	T	07:04	X															
ZZZZZZ			07:34																
ZZZZZZ			07:58																
ZZZZZZ			08:31																
ZZZZZZ			08:43																
ZZZZZZ			09:08																
ZZZZZZ			09:44																

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-89328-2

SDG No.: 68089328-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/18/2013 09:02 End Date: 04/18/2013 09:02

Lab Sample ID	D / F	T y p e	Time	Analytes															
				M o i s t															
ZZZZZZ			09:02																
680-89328-A-8 MS	1	T	09:02	X															
680-89328-A-8 MSD	1	T	09:02	X															
680-89328-25	1	T	09:02	X															
680-89328-25 MS	1	T	09:02	X															
680-89328-25 MSD	1	T	09:02	X															
680-89328-32	1	T	09:02	X															
ZZZZZZ			09:02																
680-89328-22	1	T	09:02	X															
680-89328-30	1	T	09:02	X															
ZZZZZZ			09:02																
680-89328-26	1	T	09:02	X															
680-89328-29	1	T	09:02	X															
680-89328-21	1	T	09:02	X															
ZZZZZZ			09:02																
ZZZZZZ			09:02																
680-89328-28	1	T	09:02	X															
680-89328-24	1	T	09:02	X															
ZZZZZZ			09:02																
ZZZZZZ			09:02																
ZZZZZZ			09:02																
ZZZZZZ			09:02																
ZZZZZZ			09:02																
ZZZZZZ			09:02																
ZZZZZZ			09:02																
680-89328-27	1	T	09:02	X															
680-89328-31	1	T	09:02	X															
ZZZZZZ			09:02																
ZZZZZZ			09:02																
ZZZZZZ			09:02																

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89328-2

SDG No.: 68089328-2

Batch Number: 136561 Batch Start Date: 04/18/13 09:02 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-89328-A-8 MS		Moisture	T	1	0 g	4.45 g	3.60 g		
680-89328-A-8 MSD		Moisture	T	1	0 g	4.45 g	3.60 g		
680-89328-A-25	CV1350A-CS	Moisture	T	2	0 g	4.56 g	3.52 g		
680-89328-A-25 MS	CV1350A-CS	Moisture	T	2	0 g	4.56 g	3.52 g		
680-89328-A-25 MSD	CV1350A-CS	Moisture	T	2	0 g	4.56 g	3.52 g		
680-89328-A-32	CV0676C-CS-SP	Moisture	T	3	0 g	4.64 g	3.28 g		
680-89328-A-22	CV1216B-CS	Moisture	T	5	0 g	4.67 g	3.60 g		
680-89328-A-30	CV0676A-CS-SP	Moisture	T	6	0 g	5.53 g	5.07 g		
680-89328-A-26	CV1350B-CS	Moisture	T	8	0 g	4.86 g	4.50 g		
680-89328-A-29	CV0695B-CS	Moisture	T	9	0 g	4.20 g	3.03 g		
680-89328-A-21	CV1216A-CS	Moisture	T	10	0 g	4.51 g	3.49 g		
680-89328-A-28	CV0695A-CSD	Moisture	T	13	0 g	4.42 g	3.49 g		
680-89328-A-24	CV1335B-CS	Moisture	T	14	0 g	4.06 g	3.32 g		
680-89328-A-27	CV0695A-CS	Moisture	T	22	0 g	4.45 g	3.53 g		
680-89328-A-31	CV0676B-CS-SP	Moisture	T	23	0 g	4.51 g	3.95 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	4.18.13
Date samples were removed from 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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89328-2

SDG No.: 68089328-2

Batch Number: 136569 Batch Start Date: 04/18/13 06:32 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-136569/1		Moisture		0 g	10.026 g	9.024 g			
680-89328-A-23	CV1335A-CS	Moisture	T	0 g	4.451 g	3.465 g			

Batch Notes	
Oven ID	HB43-1, HB43-2

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

Shipping and Receiving Documents

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>2</i> OF <i>3</i>
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(b) (6)

COMPOSITE (C) OR GRAB (G) INDICATE
AQUEOUS (WATER)
SOLID OR SEMISOLID
AIR
NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

LL PAH
PCPA & Metals

PRESERVATIVE

STANDARD REPORT DELIVERY
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE)
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

COMPANY CONTRACTING THIS WORK (if applicable)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS
DATE	TIME							1	2	3	4	5	6	7	8	9	10	
<i>4-11-B</i>	<i>0916</i>	<i>CV0405A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>0924</i>	<i>CV0405B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>0930</i>	<i>CV0993A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>	<i>X</i>										
	<i>0940</i>	<i>CV0993B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1030</i>	<i>CV1290A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1450</i>	<i>CV1117A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1500</i>	<i>CV1117B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1510</i>	<i>CV1117C-@GS</i>	<i>G</i>	<i>X</i>			<i>X</i>											
	<i>1310</i>	<i>CV1216A-CS</i>		<i>X</i>			<i>X</i>											
	<i>1320</i>	<i>CV1216B-CS</i>		<i>X</i>			<i>X</i>											
	<i>1340</i>	<i>CV1335A-CS</i>		<i>X</i>			<i>X</i>											
	<i>1350</i>	<i>CV1335B-CS</i>		<i>X</i>			<i>X</i>											

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>4-12-B</i>	TIME <i>1300</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>4/11/13</i>	TIME <i>0927</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680-89328</i>	LABORATORY REMARKS <i>2.4°C</i>
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

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Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>3</i> OF <i>3</i>
--	------------------------------------	---------------------------------------	-------------	-------------------	---------------------------

(b) (6)

COMPOSITE (C) OR GRAB (G) INDICATE
AQUEOUS (WATER)
SOLID OR SEMISOLID
AIR
NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

<i>2L PAH</i>	<i>ROCCAS Methods</i>																		
PRESERVATIVE																			

STANDARD REPORT DELIVERY

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE)

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

COMPANY CONTRACTING THIS WORK (if applicable)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS							
DATE	TIME							1	2	3	4	5	6	7	8	9	10		11	12					
<i>4-11-13</i>	<i>1410</i>	<i>CV1350A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>																		
<i>4-11-13</i>	<i>1420</i>	<i>CV1350B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>																		
<i>4-12-13</i>	<i>0840</i>	<i>CV0695A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>																		
	<i>0840</i>	<i>CV0695A-CSD</i>	<i>C</i>	<i>X</i>			<i>X</i>																		
	<i>0850</i>	<i>CV0695B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>																		
	<i>0905</i>	<i>CV0676A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>																		
	<i>0848</i>	<i>CV0676B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>																		
	<i>0918</i>	<i>CV0676C-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>																		
<i>2</i>	<i>4-11-13</i>	<i>0930</i>	<i>C</i>	<i>X</i>			<i>X</i>																		
<i>3</i>		<i>1116</i>	<i>C</i>	<i>X</i>			<i>X</i>																		
		<i>1333</i>	<i>C</i>	<i>X</i>			<i>X</i>																		

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>4-12-13</i>	TIME <i>1300</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>4/13/13</i>	TIME <i>0927</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680-89328</i>	LABORATORY REMARKS <i>2.4°C</i>
---	------------------------	---------------------	---	------------------	--------------------------------------	------------------------------------

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89328-2

SDG Number: 68089328-2

Login Number: 89328

List Source: TestAmerica Savannah

List Number: 1

Creator: Conner, Keaton

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89328-2

SDG Number: 68089328-2

Login Number: 89328
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 04/16/13 11:53 AM

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: 680-89328-2

TestAmerica Sample Delivery Group: 68089328-2

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:

4/25/2013 5:55:39 PM

Bernard Kirkland

Project Manager I

bernard.kirkland@testamericainc.com

Designee for

Lisa Harvey

Project Manager II

lisa.harvey@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

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

TestAmerica Job ID: 680-89328-2
SDG: 68089328-2

Job ID: 680-89328-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89328-2

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 04/13/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.4 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1216A-CS (680-89328-21), CV1216B-CS (680-89328-22), CV1335A-CS (680-89328-23), CV1335B-CS (680-89328-24), CV1350A-CS (680-89328-25), CV1350B-CS (680-89328-26), CV0695A-CS (680-89328-27), CV0695A-CSD (680-89328-28), CV0695B-CS (680-89328-29), CV0676A-CS-SP (680-89328-30), CV0676B-CS-SP (680-89328-31) and CV0676C-CS-SP (680-89328-32) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/18/2013 and 04/19/2013 and analyzed on 04/22/2013 and 04/23/2013.

Samples CV1335B-CS (680-89328-24)[4X] and CV1350A-CS (680-89328-25)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Fluoranthene recovered outside the recovery criteria for the MSD of sample 680-89275-21 in batch 660-136733.

Benzo[a]pyrene recovered outside the recovery criteria for the MS of sample CV1350A-CS (680-89328-25) in batch 660-136756.

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: 680-89328-2
SDG: 68089328-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89328-21	CV1216A-CS	Solid	04/11/13 13:10	04/13/13 09:27
680-89328-22	CV1216B-CS	Solid	04/11/13 13:20	04/13/13 09:27
680-89328-23	CV1335A-CS	Solid	04/11/13 13:40	04/13/13 09:27
680-89328-24	CV1335B-CS	Solid	04/11/13 13:50	04/13/13 09:27
680-89328-25	CV1350A-CS	Solid	04/11/13 14:10	04/13/13 09:27
680-89328-26	CV1350B-CS	Solid	04/11/13 14:20	04/13/13 09:27
680-89328-27	CV0695A-CS	Solid	04/12/13 08:40	04/13/13 09:27
680-89328-28	CV0695A-CSD	Solid	04/12/13 08:40	04/13/13 09:27
680-89328-29	CV0695B-CS	Solid	04/12/13 08:50	04/13/13 09:27
680-89328-30	CV0676A-CS-SP	Solid	04/12/13 09:05	04/13/13 09:27
680-89328-31	CV0676B-CS-SP	Solid	04/12/13 08:48	04/13/13 09:27
680-89328-32	CV0676C-CS-SP	Solid	04/12/13 09:18	04/13/13 09:27

Method Summary

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

TestAmerica Job ID: 680-89328-2
SDG: 68089328-2

Method	Method Description	Protocol	Laboratory
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL TAM
Moisture	Percent Moisture	EPA	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

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Definitions/Glossary

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

TestAmerica Job ID: 680-89328-2
SDG: 68089328-2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits

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: 680-89328-2
 SDG: 68089328-2

Client Sample ID: CV1216A-CS

Lab Sample ID: 680-89328-21

Date Collected: 04/11/13 13:10

Matrix: Solid

Date Received: 04/13/13 09:27

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	☼	04/18/13 15:43	04/22/13 16:23	1
Acenaphthylene	78		51	6.4	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Anthracene	120		11	5.4	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Benzo[a]anthracene	410		10	5.0	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Benzo[a]pyrene	450		13	6.7	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Benzo[b]fluoranthene	800		16	7.8	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Benzo[g,h,i]perylene	220		26	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Benzo[k]fluoranthene	280		10	4.6	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Chrysene	490		12	5.8	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Dibenz(a,h)anthracene	81		26	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Fluoranthene	820		26	5.1	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Fluorene	18	J	26	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Indeno[1,2,3-cd]pyrene	190		26	9.1	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
1-Methylnaphthalene	64		51	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
2-Methylnaphthalene	77		51	9.1	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Naphthalene	75		51	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Phenanthrene	370		10	5.0	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1
Pyrene	530		26	4.7	ug/Kg	☼	04/18/13 15:43	04/22/13 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	66		30 - 130	04/18/13 15:43	04/22/13 16:23	1

Client Sample ID: CV1216B-CS

Lab Sample ID: 680-89328-22

Date Collected: 04/11/13 13:20

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Acenaphthylene	18	J	52	6.4	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Anthracene	59		11	5.4	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Benzo[a]anthracene	350		10	5.0	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Benzo[a]pyrene	520		13	6.7	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Benzo[b]fluoranthene	910		16	7.9	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Benzo[g,h,i]perylene	300		26	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Benzo[k]fluoranthene	330		10	4.6	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Chrysene	470		12	5.8	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Dibenz(a,h)anthracene	110		26	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Fluoranthene	440		26	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Fluorene	21	J	26	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Indeno[1,2,3-cd]pyrene	290		26	9.2	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
1-Methylnaphthalene	38	J	52	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
2-Methylnaphthalene	53		52	9.2	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Naphthalene	64		52	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Phenanthrene	210		10	5.0	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1
Pyrene	330		26	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	70		30 - 130	04/18/13 15:43	04/22/13 16:46	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89328-2
 SDG: 68089328-2

Client Sample ID: CV1335A-CS

Lab Sample ID: 680-89328-23

Date Collected: 04/11/13 13:40

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	28	J	130	26	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Acenaphthylene	67		52	6.4	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Anthracene	100		11	5.4	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Benzo[a]anthracene	920		10	5.0	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Benzo[a]pyrene	1400		13	6.7	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Benzo[b]fluoranthene	2900		16	7.9	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Benzo[g,h,i]perylene	850		26	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Benzo[k]fluoranthene	900		10	4.6	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Chrysene	1100		12	5.8	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Dibenz(a,h)anthracene	370		26	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Fluoranthene	1200		26	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Fluorene	28		26	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Indeno[1,2,3-cd]pyrene	810		26	9.1	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
1-Methylnaphthalene	50	J	52	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
2-Methylnaphthalene	60		52	9.1	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Naphthalene	58		52	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Phenanthrene	460		10	5.0	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Pyrene	830		26	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 17:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	59		30 - 130				04/18/13 15:43	04/22/13 17:09	1

Client Sample ID: CV1335B-CS

Lab Sample ID: 680-89328-24

Date Collected: 04/11/13 13:50

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Acenaphthylene	61	J	200	24	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Anthracene	100		41	21	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Benzo[a]anthracene	1200		39	19	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Benzo[a]pyrene	1900		51	25	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Benzo[b]fluoranthene	4100		60	30	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Benzo[g,h,i]perylene	1300		98	22	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Benzo[k]fluoranthene	1200		39	18	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Chrysene	1600		44	22	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Dibenz(a,h)anthracene	530		98	20	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Fluoranthene	1200		98	20	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Fluorene	32	J	98	20	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Indeno[1,2,3-cd]pyrene	1200		98	35	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
1-Methylnaphthalene	61	J	200	22	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
2-Methylnaphthalene	81	J	200	35	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Naphthalene	86	J	200	22	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Phenanthrene	460		39	19	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Pyrene	930		98	18	ug/Kg	☼	04/18/13 15:43	04/22/13 17:31	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	66		30 - 130				04/18/13 15:43	04/22/13 17:31	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89328-2
 SDG: 68089328-2

Client Sample ID: CV1350A-CS

Lab Sample ID: 680-89328-25

Date Collected: 04/11/13 14:10

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 77.2

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 16:22	4
Acenaphthylene	40	J	210	26	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Anthracene	52		44	22	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Benzo[a]anthracene	230		41	20	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Benzo[a]pyrene	210	F	54	27	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Benzo[b]fluoranthene	340		63	32	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Benzo[g,h,i]perylene	200		100	23	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Benzo[k]fluoranthene	100		41	19	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Chrysene	340		47	23	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Dibenz(a,h)anthracene	54	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Fluoranthene	350		100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Fluorene	26	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Indeno[1,2,3-cd]pyrene	150		100	37	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
1-Methylnaphthalene	220		210	23	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
2-Methylnaphthalene	220		210	37	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Naphthalene	130	J	210	23	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Phenanthrene	340		41	20	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Pyrene	300		100	19	ug/Kg	☼	04/19/13 15:35	04/23/13 16:22	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	53		30 - 130				04/19/13 15:35	04/23/13 16:22	4

Client Sample ID: CV1350B-CS

Lab Sample ID: 680-89328-26

Date Collected: 04/11/13 14:20

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 92.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Acenaphthylene	69		43	5.4	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Anthracene	100		9.0	4.5	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Benzo[a]anthracene	91		8.6	4.2	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Benzo[a]pyrene	100		11	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Benzo[b]fluoranthene	280		13	6.6	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Benzo[g,h,i]perylene	60		22	4.7	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Benzo[k]fluoranthene	72		8.6	3.9	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Chrysene	120		9.7	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Dibenz(a,h)anthracene	22		22	4.4	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Fluoranthene	130		22	4.3	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Fluorene	7.3	J	22	4.4	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Indeno[1,2,3-cd]pyrene	63		22	7.6	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
1-Methylnaphthalene	17	J	43	4.7	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
2-Methylnaphthalene	24	J	43	7.6	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Naphthalene	22	J	43	4.7	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Phenanthrene	74		8.6	4.2	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Pyrene	100		22	4.0	ug/Kg	☼	04/18/13 15:43	04/22/13 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	51		30 - 130				04/18/13 15:43	04/22/13 17:54	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89328-2
 SDG: 68089328-2

Client Sample ID: CV0695A-CS

Lab Sample ID: 680-89328-27

Date Collected: 04/12/13 08:40

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Acenaphthylene	8.8	J	50	6.3	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Anthracene	20		11	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Benzo[a]anthracene	85		10	4.9	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Benzo[a]pyrene	77		13	6.5	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Benzo[b]fluoranthene	160		15	7.7	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Benzo[g,h,i]perylene	42		25	5.5	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Benzo[k]fluoranthene	46		10	4.5	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Chrysene	140		11	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Dibenz(a,h)anthracene	17	J	25	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Fluoranthene	160		25	5.0	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Fluorene	9.3	J	25	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Indeno[1,2,3-cd]pyrene	39		25	8.9	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
1-Methylnaphthalene	49	J	50	5.5	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
2-Methylnaphthalene	60		50	8.9	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Naphthalene	46	J	50	5.5	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Phenanthrene	140		10	4.9	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Pyrene	110		25	4.7	ug/Kg	☼	04/18/13 15:43	04/22/13 18:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	68		30 - 130				04/18/13 15:43	04/22/13 18:16	1

Client Sample ID: CV0695A-CSD

Lab Sample ID: 680-89328-28

Date Collected: 04/12/13 08:40

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 79.0

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	☼	04/18/13 15:43	04/22/13 18:39	1
Acenaphthylene	7.0	J	51	6.3	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Anthracene	11		11	5.3	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Benzo[a]anthracene	46		10	4.9	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Benzo[a]pyrene	46		13	6.6	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Benzo[b]fluoranthene	98		15	7.7	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Benzo[g,h,i]perylene	29		25	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Benzo[k]fluoranthene	31		10	4.6	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Chrysene	89		11	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Dibenz(a,h)anthracene	12	J	25	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Fluoranthene	79		25	5.1	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Fluorene	10	J	25	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Indeno[1,2,3-cd]pyrene	20	J	25	9.0	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
1-Methylnaphthalene	50	J	51	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
2-Methylnaphthalene	65		51	9.0	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Naphthalene	52		51	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Phenanthrene	89		10	4.9	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Pyrene	50		25	4.7	ug/Kg	☼	04/18/13 15:43	04/22/13 18:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	61		30 - 130				04/18/13 15:43	04/22/13 18:39	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89328-2
 SDG: 68089328-2

Client Sample ID: CV0695B-CS

Lab Sample ID: 680-89328-29

Date Collected: 04/12/13 08:50

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 72.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Acenaphthylene	9.4	J	54	6.7	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Anthracene	23		11	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Benzo[a]anthracene	77		11	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Benzo[a]pyrene	69		14	7.0	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Benzo[b]fluoranthene	150		16	8.2	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Benzo[g,h,i]perylene	32		27	5.9	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Benzo[k]fluoranthene	49		11	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Chrysene	98		12	6.0	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Dibenz(a,h)anthracene	13	J	27	5.5	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Fluoranthene	130		27	5.4	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Fluorene	7.8	J	27	5.5	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Indeno[1,2,3-cd]pyrene	27		27	9.5	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
1-Methylnaphthalene	31	J	54	5.9	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
2-Methylnaphthalene	42	J	54	9.5	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Naphthalene	57		54	5.9	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Phenanthrene	80		11	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Pyrene	90		27	5.0	ug/Kg	☼	04/18/13 15:43	04/22/13 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	64		30 - 130				04/18/13 15:43	04/22/13 19:01	1

Client Sample ID: CV0676A-CS-SP

Lab Sample ID: 680-89328-30

Date Collected: 04/12/13 09:05

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 91.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Acenaphthylene	44	U	44	5.5	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Anthracene	8.1	J	9.2	4.6	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Benzo[a]anthracene	27		8.7	4.3	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Benzo[a]pyrene	21		11	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Benzo[b]fluoranthene	48		13	6.7	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Benzo[g,h,i]perylene	14	J	22	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Benzo[k]fluoranthene	11		8.7	3.9	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Chrysene	38		9.8	4.9	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Dibenz(a,h)anthracene	5.2	J	22	4.5	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Fluoranthene	39		22	4.4	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Fluorene	6.0	J	22	4.5	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Indeno[1,2,3-cd]pyrene	9.9	J	22	7.8	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
1-Methylnaphthalene	23	J	44	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
2-Methylnaphthalene	30	J	44	7.8	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Naphthalene	28	J	44	4.8	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Phenanthrene	38		8.7	4.3	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Pyrene	24		22	4.0	ug/Kg	☼	04/18/13 15:43	04/22/13 19:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	65		30 - 130				04/18/13 15:43	04/22/13 19:24	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89328-2
 SDG: 68089328-2

Client Sample ID: CV0676B-CS-SP

Lab Sample ID: 680-89328-31

Date Collected: 04/12/13 08:48

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Acenaphthylene	45	U	45	5.6	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Anthracene	7.1	J	9.4	4.7	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Benzo[a]anthracene	30		9.0	4.4	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Benzo[a]pyrene	24		12	5.8	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Benzo[b]fluoranthene	50		14	6.9	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Benzo[g,h,i]perylene	13	J	22	4.9	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Benzo[k]fluoranthene	13		9.0	4.0	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Chrysene	44		10	5.1	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Dibenz(a,h)anthracene	22	U	22	4.6	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Fluoranthene	43		22	4.5	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Fluorene	22	U	22	4.6	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Indeno[1,2,3-cd]pyrene	11	J	22	8.0	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
1-Methylnaphthalene	39	J	45	4.9	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
2-Methylnaphthalene	44	J	45	8.0	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Naphthalene	40	J	45	4.9	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Phenanthrene	53		9.0	4.4	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Pyrene	28		22	4.2	ug/Kg	☼	04/18/13 15:43	04/22/13 19:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	66		30 - 130				04/18/13 15:43	04/22/13 19:46	1

Client Sample ID: CV0676C-CS-SP

Lab Sample ID: 680-89328-32

Date Collected: 04/12/13 09:18

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 70.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Acenaphthylene	13	J	57	7.1	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Anthracene	30		12	5.9	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Benzo[a]anthracene	94		11	5.5	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Benzo[a]pyrene	96		15	7.4	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Benzo[b]fluoranthene	200		17	8.6	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Benzo[g,h,i]perylene	52		28	6.2	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Benzo[k]fluoranthene	63		11	5.1	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Chrysene	170		13	6.4	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Dibenz(a,h)anthracene	23	J	28	5.8	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Fluoranthene	180		28	5.7	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Fluorene	11	J	28	5.8	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Indeno[1,2,3-cd]pyrene	45		28	10	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
1-Methylnaphthalene	77		57	6.2	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
2-Methylnaphthalene	100		57	10	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Naphthalene	110		57	6.2	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Phenanthrene	180		11	5.5	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Pyrene	110		28	5.2	ug/Kg	☼	04/18/13 15:43	04/22/13 20:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	63		30 - 130				04/18/13 15:43	04/22/13 20:09	1

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-89328-2
 SDG: 68089328-2

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

Lab Sample ID: MB 660-136604/1-A

Matrix: Solid

Analysis Batch: 136733

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 136604

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	98	U	98	20	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Acenaphthylene	39	U	39	4.9	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Anthracene	8.2	U	8.2	4.1	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Benzo[a]anthracene	7.8	U	7.8	3.8	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Benzo[b]fluoranthene	12	U	12	5.9	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Benzo[g,h,i]perylene	20	U	20	4.3	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Benzo[k]fluoranthene	7.8	U	7.8	3.5	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Chrysene	8.8	U	8.8	4.4	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Dibenz(a,h)anthracene	20	U	20	4.0	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Fluoranthene	20	U	20	3.9	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Fluorene	20	U	20	4.0	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Indeno[1,2,3-cd]pyrene	20	U	20	6.9	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
1-Methylnaphthalene	39	U	39	4.3	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
2-Methylnaphthalene	39	U	39	6.9	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Naphthalene	39	U	39	4.3	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Phenanthrene	7.8	U	7.8	3.8	ug/Kg		04/18/13 15:43	04/22/13 11:30	1
Pyrene	20	U	20	3.6	ug/Kg		04/18/13 15:43	04/22/13 11:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	63		30 - 130	04/18/13 15:43	04/22/13 11:30	1

Lab Sample ID: LCS 660-136604/2-A

Matrix: Solid

Analysis Batch: 136733

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 136604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	660	450		ug/Kg		68	39 - 130
Acenaphthylene	660	469		ug/Kg		71	38 - 130
Anthracene	660	453		ug/Kg		69	37 - 130
Benzo[a]anthracene	660	476		ug/Kg		72	40 - 130
Benzo[a]pyrene	660	427		ug/Kg		65	49 - 130
Benzo[b]fluoranthene	660	482		ug/Kg		73	37 - 130
Benzo[g,h,i]perylene	660	480		ug/Kg		73	32 - 130
Benzo[k]fluoranthene	660	482		ug/Kg		73	32 - 130
Chrysene	660	459		ug/Kg		70	41 - 130
Dibenz(a,h)anthracene	660	501		ug/Kg		76	27 - 130
Fluoranthene	660	479		ug/Kg		73	40 - 130
Fluorene	660	481		ug/Kg		73	40 - 130
Indeno[1,2,3-cd]pyrene	660	481		ug/Kg		73	30 - 130
1-Methylnaphthalene	660	467		ug/Kg		71	31 - 130
2-Methylnaphthalene	660	455		ug/Kg		69	33 - 130
Naphthalene	660	440		ug/Kg		67	36 - 130
Phenanthrene	660	444		ug/Kg		67	42 - 130
Pyrene	660	448		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: 680-89328-2
 SDG: 68089328-2

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

Lab Sample ID: LCS 660-136604/2-A
Matrix: Solid
Analysis Batch: 136733

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136604

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	69		30 - 130

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 MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
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 MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o</i> -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 LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
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

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-89328-2
 SDG: 68089328-2

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	64		30 - 130

Lab Sample ID: 680-89328-25 MS

Matrix: Solid

Analysis Batch: 136756

Client Sample ID: CV1350A-CS

Prep Type: Total/NA

Prep Batch: 136660

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	520	U	864	410	J	ug/Kg	☼	47	39 - 130
Acenaphthylene	40	J	864	460		ug/Kg	☼	49	38 - 130
Anthracene	52		864	459		ug/Kg	☼	47	37 - 130
Benzo[a]anthracene	230		864	685		ug/Kg	☼	53	40 - 130
Benzo[a]pyrene	210	F	864	586	F	ug/Kg	☼	44	49 - 130
Benzo[b]fluoranthene	340		864	715		ug/Kg	☼	43	37 - 130
Benzo[g,h,i]perylene	200		864	703		ug/Kg	☼	58	32 - 130
Benzo[k]fluoranthene	100		864	540		ug/Kg	☼	51	32 - 130
Chrysene	340		864	710		ug/Kg	☼	43	41 - 130
Dibenz(a,h)anthracene	54	J	864	573		ug/Kg	☼	60	27 - 130
Fluoranthene	350		864	734		ug/Kg	☼	44	40 - 130
Fluorene	26	J	864	454		ug/Kg	☼	50	40 - 130
Indeno[1,2,3-cd]pyrene	150		864	638		ug/Kg	☼	56	30 - 130
1-Methylnaphthalene	220		864	543		ug/Kg	☼	37	31 - 130
2-Methylnaphthalene	220		864	568		ug/Kg	☼	41	33 - 130
Naphthalene	130	J	864	454		ug/Kg	☼	37	36 - 130
Phenanthrene	340		864	700		ug/Kg	☼	42	42 - 130
Pyrene	300		864	695		ug/Kg	☼	45	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
<i>o</i> -Terphenyl	49		30 - 130

Lab Sample ID: 680-89328-25 MSD

Matrix: Solid

Analysis Batch: 136756

Client Sample ID: CV1350A-CS

Prep Type: Total/NA

Prep Batch: 136660

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Acenaphthene	520	U	864	506	J	ug/Kg	☼	59	39 - 130	21	40
Acenaphthylene	40	J	864	570		ug/Kg	☼	61	38 - 130	21	40
Anthracene	52		864	567		ug/Kg	☼	60	37 - 130	21	40
Benzo[a]anthracene	230		864	812		ug/Kg	☼	67	40 - 130	17	40
Benzo[a]pyrene	210	F	864	724		ug/Kg	☼	60	49 - 130	21	40
Benzo[b]fluoranthene	340		864	945		ug/Kg	☼	70	37 - 130	28	40
Benzo[g,h,i]perylene	200		864	823		ug/Kg	☼	72	32 - 130	16	40
Benzo[k]fluoranthene	100		864	636		ug/Kg	☼	62	32 - 130	16	40

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-89328-2
 SDG: 68089328-2

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

Lab Sample ID: 680-89328-25 MSD

Matrix: Solid

Analysis Batch: 136756

Client Sample ID: CV1350A-CS

Prep Type: Total/NA

Prep Batch: 136660

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chrysene	340		864	910		ug/Kg	*	66	41 - 130	25	40
Dibenz(a,h)anthracene	54	J	864	706		ug/Kg	*	76	27 - 130	21	40
Fluoranthene	350		864	930		ug/Kg	*	67	40 - 130	23	40
Fluorene	26	J	864	550		ug/Kg	*	61	40 - 130	19	40
Indeno[1,2,3-cd]pyrene	150		864	771		ug/Kg	*	72	30 - 130	19	40
1-Methylnaphthalene	220		864	651		ug/Kg	*	50	31 - 130	18	40
2-Methylnaphthalene	220		864	673		ug/Kg	*	53	33 - 130	17	40
Naphthalene	130	J	864	586		ug/Kg	*	53	36 - 130	25	40
Phenanthrene	340		864	865		ug/Kg	*	61	42 - 130	21	40
Pyrene	300		864	876		ug/Kg	*	66	44 - 130	23	40
				MSD MSD							
Surrogate	%Recovery		Qualifier		Limits						
<i>o</i> -Terphenyl	58				30 - 130						

QC Association Summary

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

TestAmerica Job ID: 680-89328-2
 SDG: 68089328-2

GC/MS Semi VOA

Prep Batch: 136604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89328-21	CV1216A-CS	Total/NA	Solid	3546	
680-89328-22	CV1216B-CS	Total/NA	Solid	3546	
680-89328-23	CV1335A-CS	Total/NA	Solid	3546	
680-89328-24	CV1335B-CS	Total/NA	Solid	3546	
680-89328-26	CV1350B-CS	Total/NA	Solid	3546	
680-89328-27	CV0695A-CS	Total/NA	Solid	3546	
680-89328-28	CV0695A-CSD	Total/NA	Solid	3546	
680-89328-29	CV0695B-CS	Total/NA	Solid	3546	
680-89328-30	CV0676A-CS-SP	Total/NA	Solid	3546	
680-89328-31	CV0676B-CS-SP	Total/NA	Solid	3546	
680-89328-32	CV0676C-CS-SP	Total/NA	Solid	3546	
LCS 660-136604/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136604/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 136660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89328-25	CV1350A-CS	Total/NA	Solid	3546	
680-89328-25 MS	CV1350A-CS	Total/NA	Solid	3546	
680-89328-25 MSD	CV1350A-CS	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	

Analysis Batch: 136733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89328-21	CV1216A-CS	Total/NA	Solid	8270C LL	136604
680-89328-22	CV1216B-CS	Total/NA	Solid	8270C LL	136604
680-89328-23	CV1335A-CS	Total/NA	Solid	8270C LL	136604
680-89328-24	CV1335B-CS	Total/NA	Solid	8270C LL	136604
680-89328-26	CV1350B-CS	Total/NA	Solid	8270C LL	136604
680-89328-27	CV0695A-CS	Total/NA	Solid	8270C LL	136604
680-89328-28	CV0695A-CSD	Total/NA	Solid	8270C LL	136604
680-89328-29	CV0695B-CS	Total/NA	Solid	8270C LL	136604
680-89328-30	CV0676A-CS-SP	Total/NA	Solid	8270C LL	136604
680-89328-31	CV0676B-CS-SP	Total/NA	Solid	8270C LL	136604
680-89328-32	CV0676C-CS-SP	Total/NA	Solid	8270C LL	136604
LCS 660-136604/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136604
MB 660-136604/1-A	Method Blank	Total/NA	Solid	8270C LL	136604

Analysis Batch: 136756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89328-25	CV1350A-CS	Total/NA	Solid	8270C LL	136660
680-89328-25 MS	CV1350A-CS	Total/NA	Solid	8270C LL	136660
680-89328-25 MSD	CV1350A-CS	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

QC Association Summary

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

TestAmerica Job ID: 680-89328-2
SDG: 68089328-2

General Chemistry

Analysis Batch: 136561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89328-21	CV1216A-CS	Total/NA	Solid	Moisture	
680-89328-22	CV1216B-CS	Total/NA	Solid	Moisture	
680-89328-24	CV1335B-CS	Total/NA	Solid	Moisture	
680-89328-25	CV1350A-CS	Total/NA	Solid	Moisture	
680-89328-25 MS	CV1350A-CS	Total/NA	Solid	Moisture	
680-89328-25 MSD	CV1350A-CS	Total/NA	Solid	Moisture	
680-89328-26	CV1350B-CS	Total/NA	Solid	Moisture	
680-89328-27	CV0695A-CS	Total/NA	Solid	Moisture	
680-89328-28	CV0695A-CSD	Total/NA	Solid	Moisture	
680-89328-29	CV0695B-CS	Total/NA	Solid	Moisture	
680-89328-30	CV0676A-CS-SP	Total/NA	Solid	Moisture	
680-89328-31	CV0676B-CS-SP	Total/NA	Solid	Moisture	
680-89328-32	CV0676C-CS-SP	Total/NA	Solid	Moisture	

Analysis Batch: 136569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89328-23	CV1335A-CS	Total/NA	Solid	Moisture	
LCS 660-136569/1	Lab Control Sample	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-89328-2
 SDG: 68089328-2

Client Sample ID: CV1216A-CS

Lab Sample ID: 680-89328-21

Date Collected: 04/11/13 13:10

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136604	04/18/13 15:43	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136733	04/22/13 16:23	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136561	04/18/13 09:02	AG	TAL TAM

Client Sample ID: CV1216B-CS

Lab Sample ID: 680-89328-22

Date Collected: 04/11/13 13:20

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136604	04/18/13 15:43	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136733	04/22/13 16:46	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136561	04/18/13 09:02	AG	TAL TAM

Client Sample ID: CV1335A-CS

Lab Sample ID: 680-89328-23

Date Collected: 04/11/13 13:40

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136604	04/18/13 15:43	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136733	04/22/13 17:09	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136569	04/18/13 07:04	AG	TAL TAM

Client Sample ID: CV1335B-CS

Lab Sample ID: 680-89328-24

Date Collected: 04/11/13 13:50

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136604	04/18/13 15:43	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136733	04/22/13 17:31	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136561	04/18/13 09:02	AG	TAL TAM

Client Sample ID: CV1350A-CS

Lab Sample ID: 680-89328-25

Date Collected: 04/11/13 14:10

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 77.2

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 16:22	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136561	04/18/13 09:02	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-89328-2
SDG: 68089328-2

Client Sample ID: CV1350B-CS

Lab Sample ID: 680-89328-26

Date Collected: 04/11/13 14:20

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136604	04/18/13 15:43	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136733	04/22/13 17:54	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136561	04/18/13 09:02	AG	TAL TAM

Client Sample ID: CV0695A-CS

Lab Sample ID: 680-89328-27

Date Collected: 04/12/13 08:40

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136604	04/18/13 15:43	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136733	04/22/13 18:16	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136561	04/18/13 09:02	AG	TAL TAM

Client Sample ID: CV0695A-CSD

Lab Sample ID: 680-89328-28

Date Collected: 04/12/13 08:40

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136604	04/18/13 15:43	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136733	04/22/13 18:39	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136561	04/18/13 09:02	AG	TAL TAM

Client Sample ID: CV0695B-CS

Lab Sample ID: 680-89328-29

Date Collected: 04/12/13 08:50

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 72.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136604	04/18/13 15:43	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136733	04/22/13 19:01	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136561	04/18/13 09:02	AG	TAL TAM

Client Sample ID: CV0676A-CS-SP

Lab Sample ID: 680-89328-30

Date Collected: 04/12/13 09:05

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136604	04/18/13 15:43	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136733	04/22/13 19:24	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136561	04/18/13 09:02	AG	TAL TAM

TestAmerica Savannah

Lab Chronicle

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

TestAmerica Job ID: 680-89328-2
 SDG: 68089328-2

Client Sample ID: CV0676B-CS-SP

Lab Sample ID: 680-89328-31

Date Collected: 04/12/13 08:48

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136604	04/18/13 15:43	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136733	04/22/13 19:46	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136561	04/18/13 09:02	AG	TAL TAM

Client Sample ID: CV0676C-CS-SP

Lab Sample ID: 680-89328-32

Date Collected: 04/12/13 09:18

Matrix: Solid

Date Received: 04/13/13 09:27

Percent Solids: 70.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136604	04/18/13 15:43	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136733	04/22/13 20:09	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136561	04/18/13 09:02	AG	TAL TAM

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005/48-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>2</i> OF <i>3</i>
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(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH RCRA 8 Metals	PRESERVATIVE	STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____
								EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE _____
								NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	

Page 2 of 20

DATE	TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS			
								1	2	3	4	5	6	7	8	9	10		11	12	
4-11-B	0916	CV0405A-CS	C	X			X														
	0924	CV0405B-CS	C	X			X														
	0930	CV0993A-CS	C	X			X	X													
	0940	CV0993B-CS	C	X			X														
	1030	CV1290A-CS	C	X			X														
	1450	CV1117A-CS	C	X			X														
	1500	CV1117B-CS	C	X			X														
	1510	CV1117C-@GS	G	X			X														
	1310	CV1216A-CS			X		X														
	1320	CV1216B-CS			X		X														
	1340	CV1335A-CS			X		X														
	1350	CV1335B-CS			X		X														

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>4-12-8</i>	TIME <i>1300</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

4/25/2013

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>		DATE <i>4/11/13</i>	TIME <i>0927</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680-89328</i>	LABORATORY REMARKS <i>2.4°C</i>
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>3</i> OF <i>3</i>
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(b) (6)	(6)	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	<i>2 LL PAH</i> <i>Trace Metals</i>	PRESERVATIVE	STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE _____	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS	
DATE	TIME							1	2	3	4	5	6	7	8	9	10		11
<i>4-11-13</i>	<i>1410</i>	<i>CV1350A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>												
<i>4-11-13</i>	<i>1420</i>	<i>CV1350B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>												
<i>4-12-13</i>	<i>0840</i>	<i>CV0695A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>												
	<i>0840</i>	<i>CV0695A-CSD</i>	<i>C</i>	<i>X</i>			<i>X</i>												
	<i>0850</i>	<i>CV0695B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>												
	<i>0905</i>	<i>CV0676A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>												
	<i>0848</i>	<i>CV0676B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>												
	<i>0918</i>	<i>CV0676C-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>												
<i>4-11-13</i>	<i>0930</i>	<i>CV0993A-CS (sieve)</i>	<i>C</i>	<i>X</i>			<i>X</i>	<i>X</i>											
	<i>1116</i>	<i>HP0202C-CS-SP (sieve)</i>	<i>C</i>	<i>X</i>			<i>X</i>	<i>X</i>											
	<i>1333</i>	<i>CV0224B-CS (sieve)</i>	<i>C</i>	<i>X</i>			<i>X</i>	<i>X</i>											

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>4-12-13</i>	TIME <i>1300</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY									
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>4/13/13</i>	TIME <i>0927</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680-89328</i>	LABORATORY REMARKS <i>2.4°C</i>			

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4/23/2013



Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89328-2

SDG Number: 68089328-2

Login Number: 89328

List Number: 1

Creator: Conner, Keaton

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89328-2

SDG Number: 68089328-2

Login Number: 89328

List Number: 1

Creator: Snead, Joshua

List Source: TestAmerica Tampa

List Creation: 04/16/13 11:53 AM

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: 680-89328-2
 SDG: 68089328-2

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.

Certification Summary

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

TestAmerica Job ID: 680-89328-2
SDG: 68089328-2

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12