REDACTED

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	TestAmerica - Savannah, GA[1]	Job ID.:	680-89791-2
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Samples Collected:	04/25/2013
Reviewer:	Karen Marie Trujillo	Date:	05/20/2013
Concurrence[2]:	Nicole Lancaster	Date:	05/22/2013

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

[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, 042313-RB-Sieve (680-89695-35), was collected during the week of 4/22/13. The rinsate blank was analyzed for PAHs under Test America Job ID 680-89695-2.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?	✓			• CV1220A-CSD (680-89791-26) is a field duplicate of CV1220A-CS (680-89791-25). • CV1144C-CSD (680-89791-36) is a field duplicate of CV1144C -CS (680-89791-35).	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to **Attachment B** (Field Duplicate Evaluation)	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? • Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. • An initial calibration is to be associated with each sample analysis. • A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.	✓			• Instrument ID: BSMA5973 • Initial Calibration: 04/26/2013 • ICV: 04/26/13 @ 11:49 • CCV: 05/02/13 @ 16:18 • Instrument ID: BSMD5973 • Initial Calibration: 04/04/2013 • ICV: 04/04/13 @ 16:27 • CCV: 05/03/13 @ 10:32	
19. Were calibration results within laboratory/project specifications? • ICAL (Criteria: ≤15 mean %RSD with individual CCC %RSD ≤30 (≤50% for poor performers), OR r≥0.995, OR		✓		ICV of 04/04/13 @ 16:27, instrument BSMD5973: Benzo[a]pyrene @-23.7 %D (Lab: ≤35.0, Project: ≤20), 76.5%R. A negative bias is indicated by the ICV	J

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
$r^2 \geq 0.99$, and RRF ≥ 0.050 (≥ 0.010 for poor performers)): o 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 o 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)): o If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects o If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds				percent difference and the analyte was detected in the associated samples[3]; therefore, J-flag sample results.	
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R >Upper Control Limit (UCL) and J/R-flag results when %R <Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects.			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			• Prep Batch 136975: 680-89791-22 (CV0752C-GS-SP), MS/MSD • Prep Batch 137037: 680-89791-41 (CV0282B-CS-SP), MS/MSD. Lab sample 680-89791-41 is a project-specific sample (CV0282B-CS-SP) that was selected by TestAmerica for the PAH MS/MSD analyses, and the results were reported under Job ID 680-89791-3.	
25. Were MS/MSD recoveries within laboratory/project specifications? *Only QC results for project samples that are reported under this Job ID are evaluated.* • 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,		✓		CV0752C-GS-SP (680-89791-22): Benzo[a]pyrene @ 49 and 48 %R (49-130). Qualification of data not required[4].	

[3] Associated samples: 680-89791-36 through -40, -42, and -43
[4] 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
qualification of data is not warranted. • MS and MSD %R<10: J and R Flag positive and ND results, respectively • MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results • MS and MSD R% >UCL (or 140): J-Flag positive results					
26. Were laboratory criteria met for precision during the MS/MSD analysis? *Only QC results for project samples that are reported under this Job ID are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J-flag positive result and UJ-flag non-detect result.	✓				
27. Were surrogate recoveries within lab/project specifications? • If %R for 1 Acid or BN surrogates <10, then J-flag positive and R-flag non-detect associated sample results • If 2 or more Acid or BN %R >UCL, then J-flag positive results • If 2 or more Acid or BN %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results • If 2 or more Acid or BN , with 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results	✓				
28. Were internal standard (IS) results within lab/project specifications? • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data.	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
• The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.					
29. Were lab comments included in report?	✓			Refer to **Attachment C** (Case Narrative)	
Comments: The data validation was conducted in accordance with the *Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1* (OTIE, October 2012). The data review process was modeled after the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review* (EPA, October 1999) and *USEPA CLP NFG for Low Concentration Organic Methods Data Review* (EPA, June 2001). Sample results have been qualified based on the results of the data review process (**Attachment D**). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.					

DV Flag Definitions:

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

ATTACHMENT A

SAMPLE SUMMARY

Sample Summary

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

TestAmerica Job ID: 680-89791-2
SDG: 68089791-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89791-22	CV0752C-GS-SP	Solid	04/25/13 09:23	04/27/13 08:25
680-89791-24	CV1312B-CS-SP	Solid	04/25/13 10:01	04/27/13 08:25
680-89791-25	CV1220A-CS	Solid	04/25/13 09:30	04/27/13 08:25
680-89791-26	CV1220A-CSD	Solid	04/25/13 09:30	04/27/13 08:25
680-89791-27	CV1220B-CS	Solid	04/25/13 09:50	04/27/13 08:25
680-89791-28	CV1227A-CS	Solid	04/25/13 10:25	04/27/13 08:25
680-89791-29	CV1227B-CS	Solid	04/25/13 10:40	04/27/13 08:25
680-89791-30	CV1227C-CS	Solid	04/25/13 10:50	04/27/13 08:25
680-89791-31	CV1228A-CS	Solid	04/25/13 11:15	04/27/13 08:25
680-89791-32	CV1228B-CS	Solid	04/25/13 11:20	04/27/13 08:25
680-89791-33	CV1144A-CS	Solid	04/25/13 14:00	04/27/13 08:25
680-89791-34	CV1144B-CS	Solid	04/25/13 14:15	04/27/13 08:25
680-89791-35	CV1144C-CS	Solid	04/25/13 14:25	04/27/13 08:25
680-89791-36	CV1144C-CSD	Solid	04/25/13 14:25	04/27/13 08:25
680-89791-37	CV1146A-GS	Solid	04/25/13 14:10	04/27/13 08:25
680-89791-38	CV1224A-CS	Solid	04/25/13 13:15	04/27/13 08:25
680-89791-39	CV1224B-CS	Solid	04/25/13 13:25	04/27/13 08:25
680-89791-40	CV0282A-CS-SP	Solid	04/25/13 13:12	04/27/13 08:25
680-89791-42	FM0023A-CS-SP	Solid	04/25/13 14:02	04/27/13 08:25
680-89791-43	FM0023B-CS-SP	Solid	04/25/13 14:14	04/27/13 08:25

ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results **Attachment B**

Analyte	CV1220A-CS 680-89791-25		RL	CV1220A-CSD 680-89791-26		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthene	87	J	130			120	µg/kg	625	NA	87	250	None, absolute difference ≤ 2x Avg RL
Acenaphthylene	33	J	53	15	J	50	µg/kg	257.5	NA	18	103	None, absolute difference ≤ 2x Avg RL
Anthracene	220		11	58		10	µg/kg	52.5	**117**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(a)anthracene	1800		11	810		10	µg/kg	52.5	**76**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(a)pyrene	2300		14	1100		13	µg/kg	67.5	**71**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(b)fluoranthene	4300		16	2100		15	µg/kg	77.5	**69**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(g,h,i)perylene	1900		27	930		25	µg/kg	130	**69**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(k)fluoranthene	1200		11	620		10	µg/kg	52.5	**64**	NA	NA	**J/UJ-flag, RPD > 50%**
Chrysene	2100		12	1000		11	µg/kg	57.5	**71**	NA	NA	**J/UJ-flag, RPD > 50%**
Dibenzo(a,h)anthracene	950		27	470		25	µg/kg	130	**68**	NA	NA	**J/UJ-flag, RPD > 50%**
Fluoranthene	1700		27	580		25	µg/kg	130	**98**	NA	NA	**J/UJ-flag, RPD > 50%**
Fluorene	88		27	19	J	25	µg/kg	130	NA	**69**	**52**	**J/UJ-flag, absolute difference > 2x Avg RL**
Indeno(1,2,3-cd)pyrene	1800		27	980		25	µg/kg	130	**59**	NA	NA	**J/UJ-flag, RPD > 50%**
1-Methylnaphthalene	380		53	180		50	µg/kg	257.5	NA	**200**	**103**	**J/UJ-flag, absolute difference > 2x Avg RL**
2-Methylnaphthalene	450		53	220		50	µg/kg	257.5	NA	**230**	**103**	**J/UJ-flag, absolute difference > 2x Avg RL**
Naphthalene	300		53	150		50	µg/kg	257.5	NA	**150**	**103**	**J/UJ-flag, absolute difference > 2x Avg RL**
Phenanthrene	1200		11	340		10	µg/kg	52.5	**112**	NA	NA	**J/UJ-flag, RPD > 50%**
Pyrene	1400		27	510		25	µg/kg	130	**93**	NA	NA	**J/UJ-flag, RPD > 50%**

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

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

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

Evaluation of Field Duplicate Results **Attachment B**

Analyte	CV1144C-CS 680-89791-35		RL	CV1144C-CSD 680-89791-36		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	8.0	J	50			50	µg/kg	250	NA	8	100	None, absolute difference ≤ 2x Avg RL
Anthracene	12		10	11		10	µg/kg	50	NA	1	20	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	41		9.9	45		10	µg/kg	49.75	NA	4	19.9	None, absolute difference ≤ 2x Avg RL
Benzo(a)pyrene	33		13	39		13	µg/kg	65	NA	6	26	None, absolute difference ≤ 2x Avg RL
Benzo(b)fluoranthene	52		15	63		15	µg/kg	75	NA	11	30	None, absolute difference ≤ 2x Avg RL
Benzo(g,h,i)perylene	23	J	25	36		25	µg/kg	125	NA	13	50	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	25		9.9	29		10	µg/kg	49.75	NA	4	19.9	None, absolute difference ≤ 2x Avg RL
Chrysene	44		11	67		11	µg/kg	55	NA	**23**	**22**	**J/UJ-flag, absolute difference > 2x Avg RL**
Dibenzo(a,h)anthracene	5.5	J	25	10	J	25	µg/kg	125	NA	4.5	50	None, absolute difference ≤ 2x Avg RL
Fluoranthene	57		25	72		25	µg/kg	125	NA	15	50	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	21	J	25	22	J	25	µg/kg	125	NA	1	50	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	25	J	50	40	J	50	µg/kg	250	NA	15	100	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	30	J	50	39	J	50	µg/kg	250	NA	9	100	None, absolute difference ≤ 2x Avg RL
Naphthalene	34	J	50	38	J	50	µg/kg	250	NA	4	100	None, absolute difference ≤ 2x Avg RL
Phenanthrene	52		9.9	51		10	µg/kg	49.75	2	NA	NA	None, RPD ≤ 50%
Pyrene	45		25	59		25	µg/kg	125	NA	14	50	None, absolute difference ≤ 2x Avg RL

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

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

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

ATTACHMENT C

CASE NARRATIVE

Job ID: 680-89791-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89791-2

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

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): CV0790C-CS-SP (sieve) (680-89791-17). The container labels list CV0709C-CS-SP(Sieve). The COC lists CV0790C-CS-SP(Sieve).

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0752C-GS-SP (680-89791-22), CV1312B-CS-SP (680-89791-24), CV1220A-CS (680-89791-25), CV1220A-CSD (680-89791-26), CV1220B-CS (680-89791-27), CV1227A-CS (680-89791-28), CV1227B-CS (680-89791-29), CV1227C-CS (680-89791-30), CV1228A-CS (680-89791-31), CV1228B-CS (680-89791-32), CV1144A-CS (680-89791-33), CV1144B-CS (680-89791-34), CV1144C-CS (680-89791-35), CV1144C-CSD (680-89791-36), CV1146A-GS (680-89791-37), CV1224A-CS (680-89791-38), CV1224B-CS (680-89791-39), CV0282A-CS-SP (680-89791-40), FM0023A-CS-SP (680-89791-42) and FM0023B-CS-SP (680-89791-43) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/30/2013 and 05/02/2013 and analyzed on 05/02/2013 and 05/03/2013.

Samples CV0752C-GS-SP (680-89791-22)[4X], CV1220B-CS (680-89791-27)[4X], CV1228A-CS (680-89791-31)[4X] and CV1228B-CS (680-89791-32)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Benzo[a]pyrene recovered outside the recovery criteria for the MSD of sample CV0752C-GS-SP(680-89791-22) in batch 660-137070.

Benzo[a]pyrene and Pyrene recovered outside the recovery criteria for the MS of sample 680-89791-41 in batch 660-137126.

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 ID: CV0752C-GS-SP

Lab Sample ID: 680-89791-22

Date Collected: 04/25/13 09:23
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	470	U	470	94	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Acenaphthylene	190	U	190	23	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Anthracene	39	U	39	20	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Benzo[a]anthracene	**61**		38	18	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Benzo[a]pyrene	49	U F	49	24	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Benzo[b]fluoranthene	**50**	**J**	57	29	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Benzo[g,h,i]perylene	**35**	**J**	94	21	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Benzo[k]fluoranthene	**17**	**J**	38	17	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Chrysene	**51**		42	21	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Dibenz(a,h)anthracene	94	U	94	19	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Fluoranthene	**64**	**J**	94	19	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Fluorene	94	U	94	19	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Indeno[1,2,3-cd]pyrene	94	U	94	33	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
1-Methylnaphthalene	190	U	190	21	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
2-Methylnaphthalene	190	U	190	33	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Naphthalene	**22**	**J**	190	21	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Phenanthrene	**61**		38	18	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Pyrene	**59**	**J**	94	17	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*47*		*30 - 130*	*04/30/13 14:42*	*05/02/13 19:12*	*4*

Client Sample ID: CV1312B-CS-SP

Lab Sample ID: 680-89791-24

Date Collected: 04/25/13 10:01
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 74.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Acenaphthylene	**21**	**J**	54	6.7	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Anthracene	**35**		11	5.6	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Benzo[a]anthracene	**130**		11	5.2	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Benzo[a]pyrene	**100**		14	7.0	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Benzo[b]fluoranthene	**170**		16	8.2	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Benzo[g,h,i]perylene	**84**		27	5.9	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Benzo[k]fluoranthene	**68**		11	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Chrysene	**150**		12	6.0	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Dibenz(a,h)anthracene	**21**	**J**	27	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Fluoranthene	**150**		27	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Fluorene	**8.7**	**J**	27	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Indeno[1,2,3-cd]pyrene	**73**		27	9.5	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
1-Methylnaphthalene	**91**		54	5.9	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
2-Methylnaphthalene	**100**		54	9.5	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Naphthalene	**100**		54	5.9	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Phenanthrene	**140**		11	5.2	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Pyrene	**140**		27	5.0	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*45*		*30 - 130*	*04/30/13 14:42*	*05/02/13 20:12*	*1*

Client Sample ID: CV1220A-CS

Lab Sample ID: 680-89791-25

Date Collected: 04/25/13 09:30
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 75.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	87	J	130	27	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Acenaphthylene	33	J	53	6.7	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Anthracene	220	J	11	5.6	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Benzo[a]anthracene	1800	J	11	5.2	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Benzo[a]pyrene	2300	J	14	6.9	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Benzo[b]fluoranthene	4300	J	16	8.1	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Benzo[g,h,i]perylene	1900	J	27	5.9	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Benzo[k]fluoranthene	1200	J	11	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Chrysene	2100	J	12	6.0	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Dibenz(a,h)anthracene	950	J	27	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Fluoranthene	1700	J	27	5.3	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Fluorene	88	J	27	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Indeno[1,2,3-cd]pyrene	1800	J	27	9.5	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
1-Methylnaphthalene	380	J	53	5.9	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
2-Methylnaphthalene	450	J	53	9.5	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Naphthalene	300	J	53	5.9	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Phenanthrene	1200	J	11	5.2	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Pyrene	1400	J	27	4.9	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*45*		*30 - 130*	*04/30/13 14:42*	*05/02/13 20:27*	*1*

Client Sample ID: CV1220A-CSD

Lab Sample ID: 680-89791-26

Date Collected: 04/25/13 09:30
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Acenaphthylene	15	J	50	6.2	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Anthracene	58	J	10	5.2	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Benzo[a]anthracene	810	J	10	4.9	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Benzo[a]pyrene	1100	J	13	6.5	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Benzo[b]fluoranthene	2100	J	15	7.6	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Benzo[g,h,i]perylene	930	J	25	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Benzo[k]fluoranthene	620	J	10	4.5	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Chrysene	1000	J	11	5.6	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Dibenz(a,h)anthracene	470	J	25	5.1	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Fluoranthene	580	J	25	5.0	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Fluorene	19	~~J~~ J	25	5.1	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Indeno[1,2,3-cd]pyrene	980	J	25	8.8	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
1-Methylnaphthalene	180	J	50	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
2-Methylnaphthalene	220	J	50	8.8	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Naphthalene	150	J	50	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Phenanthrene	340	J	10	4.9	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Pyrene	510	J	25	4.6	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*39*		*30 - 130*	*04/30/13 14:42*	*05/02/13 20:43*	*1*

Client Sample ID: CV1220B-CS

Lab Sample ID: 680-89791-27

Date Collected: 04/25/13 09:50
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 76.6

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	☼	04/30/13 14:42	05/02/13 20:57	4
Acenaphthylene	**28**	**J**	210	26	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Anthracene	**87**		44	22	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Benzo[a]anthracene	**1300**		42	20	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Benzo[a]pyrene	**1900**		54	27	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Benzo[b]fluoranthene	**3200**		64	32	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Benzo[g,h,i]perylene	**1800**		100	23	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Benzo[k]fluoranthene	**1500**		42	19	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Chrysene	**1700**		47	24	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Dibenz(a,h)anthracene	**640**		100	21	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Fluoranthene	**1000**		100	21	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Fluorene	**45**	**J**	100	21	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Indeno[1,2,3-cd]pyrene	**1800**		100	37	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
1-Methylnaphthalene	**250**		210	23	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
2-Methylnaphthalene	**310**		210	37	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Naphthalene	**240**		210	23	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Phenanthrene	**570**		42	20	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Pyrene	**1000**		100	19	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*46*		*30 - 130*	*04/30/13 14:42*	*05/02/13 20:57*	*4*

Client Sample ID: CV1227A-CS

Lab Sample ID: 680-89791-28

Date Collected: 04/25/13 10:25
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Acenaphthylene	**15**	**J**	53	6.6	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Anthracene	**36**		11	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Benzo[a]anthracene	**110**		11	5.1	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Benzo[a]pyrene	**92**		14	6.8	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Benzo[b]fluoranthene	**150**		16	8.0	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Benzo[g,h,i]perylene	**73**		26	5.8	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Benzo[k]fluoranthene	**57**		11	4.7	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Chrysene	**160**		12	5.9	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Dibenz(a,h)anthracene	**28**		26	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Fluoranthene	**150**		26	5.3	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Fluorene	**5.8**	**J**	26	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Indeno[1,2,3-cd]pyrene	**65**		26	9.3	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
1-Methylnaphthalene	**73**		53	5.8	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
2-Methylnaphthalene	**120**		53	9.3	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Naphthalene	**86**		53	5.8	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Phenanthrene	**160**		11	5.1	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Pyrene	**140**		26	4.9	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*45*		*30 - 130*	*04/30/13 14:42*	*05/02/13 21:12*	*1*

Client Sample ID: CV1227B-CS

Lab Sample ID: 680-89791-29

Date Collected: 04/25/13 10:40
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Acenaphthylene	**29**	**J**	48	6.0	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Anthracene	**28**		10	5.0	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Benzo[a]anthracene	**57**		9.6	4.7	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Benzo[a]pyrene	**48**		12	6.2	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Benzo[b]fluoranthene	**70**		15	7.3	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Benzo[g,h,i]perylene	**40**		24	5.3	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Benzo[k]fluoranthene	**24**		9.6	4.3	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Chrysene	**89**		11	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Dibenz(a,h)anthracene	**10**	**J**	24	4.9	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Fluoranthene	**79**		24	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Fluorene	**9.3**	**J**	24	4.9	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Indeno[1,2,3-cd]pyrene	**30**		24	8.5	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
1-Methylnaphthalene	**47**	**J**	48	5.3	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
2-Methylnaphthalene	**76**		48	8.5	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Naphthalene	**180**		48	5.3	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Phenanthrene	**150**		9.6	4.7	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Pyrene	**100**		24	4.4	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*30 - 130*	*04/30/13 14:42*	*05/02/13 21:27*	*1*

Client Sample ID: CV1227C-CS

Lab Sample ID: 680-89791-30

Date Collected: 04/25/13 10:50
Matrix: Solid
Date Received: 04/27/13 08:25
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	**80**	**J**	140	28	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Acenaphthylene	**98**		57	7.1	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Anthracene	**300**		12	6.0	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Benzo[a]anthracene	**720**		11	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Benzo[a]pyrene	**510**		15	7.4	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Benzo[b]fluoranthene	**780**		17	8.7	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Benzo[g,h,i]perylene	**280**		28	6.2	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Benzo[k]fluoranthene	**330**		11	5.1	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Chrysene	**800**		13	6.4	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Dibenz(a,h)anthracene	**130**		28	5.8	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Fluoranthene	**1300**		28	5.7	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Fluorene	**110**		28	5.8	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Indeno[1,2,3-cd]pyrene	**290**		28	10	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
1-Methylnaphthalene	**280**		57	6.2	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
2-Methylnaphthalene	**240**		57	10	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Naphthalene	**190**		57	6.2	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Phenanthrene	**1300**		11	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Pyrene	**920**		28	5.2	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*42*		*30 - 130*	*04/30/13 14:42*	*05/02/13 21:42*	*1*

Client Sample ID: CV1228A-CS

Lab Sample ID: 680-89791-31

Date Collected: 04/25/13 11:15
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	470	U	470	95	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Acenaphthylene	190	U	190	24	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Anthracene	**36**	**J**	40	20	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Benzo[a]anthracene	**110**		38	19	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Benzo[a]pyrene	**60**		49	25	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Benzo[b]fluoranthene	**100**		58	29	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Benzo[g,h,i]perylene	**41**	**J**	95	21	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Benzo[k]fluoranthene	**45**		38	17	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Chrysene	**110**		43	21	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Dibenz(a,h)anthracene	95	U	95	19	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Fluoranthene	**110**		95	19	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Fluorene	95	U	95	19	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Indeno[1,2,3-cd]pyrene	**48**	**J**	95	34	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
1-Methylnaphthalene	**180**	**J**	190	21	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
2-Methylnaphthalene	**220**		190	34	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Naphthalene	**170**	**J**	190	21	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Phenanthrene	**180**		38	19	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Pyrene	**100**		95	18	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*49*		*30 - 130*	*04/30/13 14:42*	*05/02/13 21:57*	*4*

Client Sample ID: CV1228B-CS

Lab Sample ID: 680-89791-32

Date Collected: 04/25/13 11:20
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Acenaphthylene	**27**	**J**	210	26	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Anthracene	**38**	**J**	43	22	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Benzo[a]anthracene	**160**		41	20	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Benzo[a]pyrene	**140**		54	27	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Benzo[b]fluoranthene	**210**		63	31	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Benzo[g,h,i]perylene	**100**		100	23	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Benzo[k]fluoranthene	**79**		41	19	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Chrysene	**250**		46	23	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Dibenz(a,h)anthracene	**36**	**J**	100	21	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Fluoranthene	**200**		100	21	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Fluorene	100	U	100	21	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Indeno[1,2,3-cd]pyrene	**85**	**J**	100	37	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
1-Methylnaphthalene	**150**	**J**	210	23	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
2-Methylnaphthalene	**160**	**J**	210	37	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Naphthalene	**130**	**J**	210	23	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Phenanthrene	**190**		41	20	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Pyrene	**170**		100	19	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*49*		*30 - 130*	*04/30/13 14:42*	*05/02/13 22:12*	*4*

Client Sample ID: CV1144A-CS

Lab Sample ID: 680-89791-33

Date Collected: 04/25/13 14:00
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Acenaphthylene	49	U	49	6.1	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Anthracene	**9.0**	**J**	10	5.1	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Benzo[a]anthracene	**38**		9.8	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Benzo[a]pyrene	**31**		13	6.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Benzo[b]fluoranthene	**51**		15	7.5	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Benzo[g,h,i]perylene	**27**		24	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Benzo[k]fluoranthene	**21**		9.8	4.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Chrysene	**38**		11	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Dibenz(a,h)anthracene	**5.5**	**J**	24	5.0	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Fluoranthene	**42**		24	4.9	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Fluorene	24	U	24	5.0	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Indeno[1,2,3-cd]pyrene	**23**	**J**	24	8.7	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
1-Methylnaphthalene	**10**	**J**	49	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
2-Methylnaphthalene	**13**	**J**	49	8.7	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Naphthalene	**11**	**J**	49	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Phenanthrene	**32**		9.8	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Pyrene	**40**		24	4.5	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*50*		*30 - 130*	*04/30/13 14:42*	*05/02/13 22:27*	*1*

Client Sample ID: CV1144B-CS

Lab Sample ID: 680-89791-34

Date Collected: 04/25/13 14:15
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Acenaphthylene	**18**	**J**	49	6.2	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Anthracene	**25**		10	5.2	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Benzo[a]anthracene	**79**		9.9	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Benzo[a]pyrene	**69**		13	6.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Benzo[b]fluoranthene	**100**		15	7.5	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Benzo[g,h,i]perylene	**60**		25	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Benzo[k]fluoranthene	**53**		9.9	4.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Chrysene	**96**		11	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Dibenz(a,h)anthracene	**13**	**J**	25	5.1	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Fluoranthene	**100**		25	4.9	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Fluorene	**5.5**	**J**	25	5.1	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Indeno[1,2,3-cd]pyrene	**49**		25	8.8	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
1-Methylnaphthalene	**42**	**J**	49	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
2-Methylnaphthalene	**47**	**J**	49	8.8	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Naphthalene	**33**	**J**	49	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Phenanthrene	**88**		9.9	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Pyrene	**87**		25	4.6	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*04/30/13 14:42*	*05/02/13 22:42*	*1*

Client Sample ID: CV1144C-CS

Lab Sample ID: 680-89791-35

Date Collected: 04/25/13 14:25
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Acenaphthylene	**8.0**	**J**	50	6.2	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Anthracene	**12**		10	5.2	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Benzo[a]anthracene	**41**		9.9	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Benzo[a]pyrene	**33**		13	6.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Benzo[b]fluoranthene	**52**		15	7.6	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Benzo[g,h,i]perylene	**23**	**J**	25	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Benzo[k]fluoranthene	**25**		9.9	4.5	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Chrysene	**44**	**J**	11	5.6	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Dibenz(a,h)anthracene	**5.5**	**J**	25	5.1	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Fluoranthene	**57**		25	5.0	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Fluorene	25	U	25	5.1	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Indeno[1,2,3-cd]pyrene	**21**	**J**	25	8.8	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
1-Methylnaphthalene	**25**	**J**	50	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
2-Methylnaphthalene	**30**	**J**	50	8.8	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Naphthalene	**34**	**J**	50	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Phenanthrene	**52**		9.9	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Pyrene	**45**		25	4.6	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*41*		*30 - 130*	*04/30/13 14:42*	*05/02/13 22:57*	*1*

Client Sample ID: CV1144C-CSD

Lab Sample ID: 680-89791-36

Date Collected: 04/25/13 14:25
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Acenaphthylene	50	U	50	6.2	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Anthracene	**11**		10	5.2	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Benzo[a]anthracene	**45**		10	4.9	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Benzo[a]pyrene	**39**	**J**	13	6.5	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Benzo[b]fluoranthene	**63**		15	7.6	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Benzo[g,h,i]perylene	**36**		25	5.5	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Benzo[k]fluoranthene	**29**		10	4.5	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Chrysene	**67**	**J**	11	5.6	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Dibenz(a,h)anthracene	**10**	**J**	25	5.1	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Fluoranthene	**72**		25	5.0	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Fluorene	25	U	25	5.1	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Indeno[1,2,3-cd]pyrene	**22**	**J**	25	8.9	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
1-Methylnaphthalene	**40**	**J**	50	5.5	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
2-Methylnaphthalene	**39**	**J**	50	8.9	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Naphthalene	**38**	**J**	50	5.5	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Phenanthrene	**51**		10	4.9	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Pyrene	**59**		25	4.6	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*40*		*30 - 130*	*05/02/13 08:14*	*05/03/13 12:13*	*1*

Client Sample ID: CV1146A-GS

Lab Sample ID: 680-89791-37

Date Collected: 04/25/13 14:10
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Acenaphthylene	**7.8**	**J**	47	5.8	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Anthracene	**10**		9.8	4.9	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Benzo[a]anthracene	**36**		9.3	4.5	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Benzo[a]pyrene	**38**	J	12	6.0	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Benzo[b]fluoranthene	**50**		14	7.1	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Benzo[g,h,i]perylene	**34**		23	5.1	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Benzo[k]fluoranthene	**24**		9.3	4.2	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Chrysene	**48**		10	5.2	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Dibenz(a,h)anthracene	23	U	23	4.8	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Fluoranthene	**66**		23	4.7	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Fluorene	23	U	23	4.8	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Indeno[1,2,3-cd]pyrene	**15**	**J**	23	8.3	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
1-Methylnaphthalene	**19**	**J**	47	5.1	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
2-Methylnaphthalene	**19**	**J**	47	8.3	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Naphthalene	**18**	**J**	47	5.1	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Phenanthrene	**42**		9.3	4.5	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Pyrene	**62**		23	4.3	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*30 - 130*	*05/02/13 08:14*	*05/03/13 12:36*	*1*

Client Sample ID: CV1224A-CS

Lab Sample ID: 680-89791-38

Date Collected: 04/25/13 13:15
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 78.7

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	☼	05/02/13 08:14	05/03/13 12:59	1
Acenaphthylene	51	U	51	6.3	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Anthracene	**11**		11	5.3	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Benzo[a]anthracene	**39**		10	4.9	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Benzo[a]pyrene	**38**	J	13	6.6	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Benzo[b]fluoranthene	**60**		15	7.7	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Benzo[g,h,i]perylene	**34**		25	5.6	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Benzo[k]fluoranthene	**30**		10	4.6	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Chrysene	**67**		11	5.7	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Dibenz(a,h)anthracene	**8.7**	**J**	25	5.2	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Fluoranthene	**66**		25	5.1	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Fluorene	25	U	25	5.2	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Indeno[1,2,3-cd]pyrene	**17**	**J**	25	9.0	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
1-Methylnaphthalene	**36**	**J**	51	5.6	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
2-Methylnaphthalene	**37**	**J**	51	9.0	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Naphthalene	**29**	**J**	51	5.6	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Phenanthrene	**51**		10	4.9	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Pyrene	**52**		25	4.7	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*51*		*30 - 130*	*05/02/13 08:14*	*05/03/13 12:59*	*1*

Client Sample ID: CV1224B-CS

Lab Sample ID: 680-89791-39

Date Collected: 04/25/13 13:25
Matrix: Solid
Date Received: 04/27/13 08:25
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	☼	05/02/13 08:14	05/03/13 13:21	1
Acenaphthylene	52	U	52	6.5	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Anthracene	**11**		11	5.5	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Benzo[a]anthracene	**38**		10	5.1	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Benzo[a]pyrene	**44**	J	14	6.8	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Benzo[b]fluoranthene	**64**		16	7.9	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Benzo[g,h,i]perylene	**36**		26	5.7	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Benzo[k]fluoranthene	**32**		10	4.7	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Chrysene	**70**		12	5.9	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Dibenz(a,h)anthracene	**14**	J	26	5.3	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Fluoranthene	**79**		26	5.2	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Fluorene	**5.7**	J	26	5.3	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Indeno[1,2,3-cd]pyrene	**20**	J	26	9.3	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
1-Methylnaphthalene	**32**	J	52	5.7	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
2-Methylnaphthalene	**31**	J	52	9.3	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Naphthalene	**29**	J	52	5.7	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Phenanthrene	**53**		10	5.1	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Pyrene	**60**		26	4.8	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*42*		*30 - 130*	*05/02/13 08:14*	*05/03/13 13:21*	*1*

Client Sample ID: CV0282A-CS-SP

Lab Sample ID: 680-89791-40

Date Collected: 04/25/13 13:12
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Acenaphthylene	**6.5**	J	51	6.4	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Anthracene	**15**		11	5.4	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Benzo[a]anthracene	**61**		10	5.0	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Benzo[a]pyrene	**82**	J	13	6.7	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Benzo[b]fluoranthene	**130**		16	7.8	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Benzo[g,h,i]perylene	**80**		26	5.7	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Benzo[k]fluoranthene	**49**		10	4.6	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Chrysene	**130**		12	5.8	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Dibenz(a,h)anthracene	**25**	J	26	5.3	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Fluoranthene	**110**		26	5.1	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Fluorene	**8.0**	J	26	5.3	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Indeno[1,2,3-cd]pyrene	**44**		26	9.1	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
1-Methylnaphthalene	**46**	J	51	5.7	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
2-Methylnaphthalene	**53**		51	9.1	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Naphthalene	**43**	J	51	5.7	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Phenanthrene	**79**		10	5.0	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Pyrene	**79**		26	4.8	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*49*		*30 - 130*	*05/02/13 08:14*	*05/03/13 13:44*	*1*

Client Sample ID: FM0023A-CS-SP

Lab Sample ID: 680-89791-42

Date Collected: 04/25/13 14:02
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Acenaphthylene	**8.0**	**J**	48	6.0	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Anthracene	**16**		10	5.1	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Benzo[a]anthracene	**76**		9.7	4.7	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Benzo[a]pyrene	**73**	J	13	6.3	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Benzo[b]fluoranthene	**150**		15	7.4	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Benzo[g,h,i]perylene	**81**		24	5.3	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Benzo[k]fluoranthene	**57**		9.7	4.3	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Chrysene	**370**		11	5.4	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Dibenz(a,h)anthracene	**29**		24	4.9	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Fluoranthene	**160**		24	4.8	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Fluorene	**13**	**J**	24	4.9	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Indeno[1,2,3-cd]pyrene	**28**		24	8.6	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
1-Methylnaphthalene	**230**		48	5.3	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
2-Methylnaphthalene	**300**		48	8.6	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Naphthalene	**120**		48	5.3	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Phenanthrene	**330**		9.7	4.7	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Pyrene	**130**		24	4.5	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*30 - 130*	*05/02/13 08:14*	*05/03/13 15:14*	*1*

Client Sample ID: FM0023B-CS-SP

Lab Sample ID: 680-89791-43

Date Collected: 04/25/13 14:14
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Acenaphthylene	**8.7**	**J**	52	6.5	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Anthracene	**16**		11	5.4	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Benzo[a]anthracene	**64**		10	5.1	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Benzo[a]pyrene	**57**	J	13	6.7	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Benzo[b]fluoranthene	**100**		16	7.9	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Benzo[g,h,i]perylene	**45**		26	5.7	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Benzo[k]fluoranthene	**35**		10	4.7	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Chrysene	**100**		12	5.8	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Dibenz(a,h)anthracene	**14**	**J**	26	5.3	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Fluoranthene	**120**		26	5.2	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Fluorene	26	U	26	5.3	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Indeno[1,2,3-cd]pyrene	**25**	**J**	26	9.2	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
1-Methylnaphthalene	**49**	**J**	52	5.7	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
2-Methylnaphthalene	**69**		52	9.2	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Naphthalene	**61**		52	5.7	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Phenanthrene	**110**		10	5.1	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Pyrene	**87**		26	4.8	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*05/02/13 08:14*	*05/03/13 15:37*	*1*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-89791-2

SDG Number: 68089791-2

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
5/7/2013 5:18 PM

Designee for
Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com
05/07/2013

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; AZ: AZ0741; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN: C-GA-02; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89791-2

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

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): CV0790C-CS-SP (sieve) (680-89791-17). The container labels list CV0709C-CS-SP(Sieve). The COC lists CV0790C-CS-SP(Sieve).

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0752C-GS-SP (680-89791-22), CV1312B-CS-SP (680-89791-24), CV1220A-CS (680-89791-25), CV1220A-CSD (680-89791-26), CV1220B-CS (680-89791-27), CV1227A-CS (680-89791-28), CV1227B-CS (680-89791-29), CV1227C-CS (680-89791-30), CV1228A-CS (680-89791-31), CV1228B-CS (680-89791-32), CV1144A-CS (680-89791-33), CV1144B-CS (680-89791-34), CV1144C-CS (680-89791-35), CV1144C-CSD (680-89791-36), CV1146A-GS (680-89791-37), CV1224A-CS (680-89791-38), CV1224B-CS (680-89791-39), CV0282A-CS-SP (680-89791-40), FM0023A-CS-SP (680-89791-42) and FM0023B-CS-SP (680-89791-43) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/30/2013 and 05/02/2013 and analyzed on 05/02/2013 and 05/03/2013.

Samples CV0752C-GS-SP (680-89791-22)[4X], CV1220B-CS (680-89791-27)[4X], CV1228A-CS (680-89791-31)[4X] and CV1228B-CS (680-89791-32)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Benzo[a]pyrene recovered outside the recovery criteria for the MSD of sample CV0752C-GS-SP(680-89791-22) in batch 660-137070.

Benzo[a]pyrene and Pyrene recovered outside the recovery criteria for the MS of sample 680-89791-41 in batch 660-137126.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89791-2
Sdg Number: 68089791-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-89791-22	CV0752C-GS-SP	Solid	04/25/2013 0923	04/27/2013 0825
680-89791-22MS	CV0752C-GS-SP	Solid	04/25/2013 0923	04/27/2013 0825
680-89791-22MSDMSD	CV0752C-GS-SP	Solid	04/25/2013 0923	04/27/2013 0825
680-89791-24	CV1312B-CS-SP	Solid	04/25/2013 1001	04/27/2013 0825
680-89791-25	CV1220A-CS	Solid	04/25/2013 0930	04/27/2013 0825
680-89791-26	CV1220A-CSD	Solid	04/25/2013 0930	04/27/2013 0825
680-89791-27	CV1220B-CS	Solid	04/25/2013 0950	04/27/2013 0825
680-89791-28	CV1227A-CS	Solid	04/25/2013 1025	04/27/2013 0825
680-89791-29	CV1227B-CS	Solid	04/25/2013 1040	04/27/2013 0825
680-89791-30	CV1227C-CS	Solid	04/25/2013 1050	04/27/2013 0825
680-89791-31	CV1228A-CS	Solid	04/25/2013 1115	04/27/2013 0825
680-89791-32	CV1228B-CS	Solid	04/25/2013 1120	04/27/2013 0825
680-89791-33	CV1144A-CS	Solid	04/25/2013 1400	04/27/2013 0825
680-89791-34	CV1144B-CS	Solid	04/25/2013 1415	04/27/2013 0825
680-89791-35	CV1144C-CS	Solid	04/25/2013 1425	04/27/2013 0825
680-89791-36	CV1144C-CSD	Solid	04/25/2013 1425	04/27/2013 0825
680-89791-37	CV1146A-GS	Solid	04/25/2013 1410	04/27/2013 0825
680-89791-38	CV1224A-CS	Solid	04/25/2013 1315	04/27/2013 0825
680-89791-39	CV1224B-CS	Solid	04/25/2013 1325	04/27/2013 0825
680-89791-40	CV0282A-CS-SP	Solid	04/25/2013 1312	04/27/2013 0825
680-89791-42	FM0023A-CS-SP	Solid	04/25/2013 1402	04/27/2013 0825
680-89791-43	FM0023B-CS-SP	Solid	04/25/2013 1414	04/27/2013 0825

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89791-2
Sdg Number: 68089791-2

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: 680-89791-2
Sdg Number: 68089791-2

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: 680-89791-2
Sdg Number: 68089791-2

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.

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89791-2
Sdg Number: 68089791-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-136975					
LCS 660-136975/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136975/1-A	Method Blank	T	Solid	3546	
680-89791-22	CV0752C-GS-SP	T	Solid	3546	
680-89791-22MS	Matrix Spike	T	Solid	3546	
680-89791-22MSDMSD	Matrix Spike Duplicate	T	Solid	3546	
680-89791-24	CV1312B-CS-SP	T	Solid	3546	
680-89791-25	CV1220A-CS	T	Solid	3546	
680-89791-26	CV1220A-CSD	T	Solid	3546	
680-89791-27	CV1220B-CS	T	Solid	3546	
680-89791-28	CV1227A-CS	T	Solid	3546	
680-89791-29	CV1227B-CS	T	Solid	3546	
680-89791-30	CV1227C-CS	T	Solid	3546	
680-89791-31	CV1228A-CS	T	Solid	3546	
680-89791-32	CV1228B-CS	T	Solid	3546	
680-89791-33	CV1144A-CS	T	Solid	3546	
680-89791-34	CV1144B-CS	T	Solid	3546	
680-89791-35	CV1144C-CS	T	Solid	3546	
Prep Batch: 660-137037					
LCS 660-137037/2-A	Lab Control Sample	T	Solid	3546	
MB 660-137037/1-A	Method Blank	T	Solid	3546	
680-89791-36	CV1144C-CSD	T	Solid	3546	
680-89791-37	CV1146A-GS	T	Solid	3546	
680-89791-38	CV1224A-CS	T	Solid	3546	
680-89791-39	CV1224B-CS	T	Solid	3546	
680-89791-40	CV0282A-CS-SP	T	Solid	3546	
680-89791-A-41-B MS	Matrix Spike	T	Solid	3546	
680-89791-A-41-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-89791-42	FM0023A-CS-SP	T	Solid	3546	
680-89791-43	FM0023B-CS-SP	T	Solid	3546	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89791-2
Sdg Number: 68089791-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-137070					
LCS 660-136975/2-A	Lab Control Sample	T	Solid	8270C LL	660-136975
MB 660-136975/1-A	Method Blank	T	Solid	8270C LL	660-136975
680-89791-22	CV0752C-GS-SP	T	Solid	8270C LL	660-136975
680-89791-22MS	Matrix Spike	T	Solid	8270C LL	660-136975
680-89791-22MSDMSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136975
680-89791-24	CV1312B-CS-SP	T	Solid	8270C LL	660-136975
680-89791-25	CV1220A-CS	T	Solid	8270C LL	660-136975
680-89791-26	CV1220A-CSD	T	Solid	8270C LL	660-136975
680-89791-27	CV1220B-CS	T	Solid	8270C LL	660-136975
680-89791-28	CV1227A-CS	T	Solid	8270C LL	660-136975
680-89791-29	CV1227B-CS	T	Solid	8270C LL	660-136975
680-89791-30	CV1227C-CS	T	Solid	8270C LL	660-136975
680-89791-31	CV1228A-CS	T	Solid	8270C LL	660-136975
680-89791-32	CV1228B-CS	T	Solid	8270C LL	660-136975
680-89791-33	CV1144A-CS	T	Solid	8270C LL	660-136975
680-89791-34	CV1144B-CS	T	Solid	8270C LL	660-136975
680-89791-35	CV1144C-CS	T	Solid	8270C LL	660-136975
Analysis Batch:660-137126					
MB 660-137037/1-A	Method Blank	T	Solid	8270C LL	660-137037
680-89791-36	CV1144C-CSD	T	Solid	8270C LL	660-137037
680-89791-37	CV1146A-GS	T	Solid	8270C LL	660-137037
680-89791-38	CV1224A-CS	T	Solid	8270C LL	660-137037
680-89791-39	CV1224B-CS	T	Solid	8270C LL	660-137037
680-89791-40	CV0282A-CS-SP	T	Solid	8270C LL	660-137037
680-89791-A-41-B MS	Matrix Spike	T	Solid	8270C LL	660-137037
680-89791-A-41-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-137037
680-89791-42	FM0023A-CS-SP	T	Solid	8270C LL	660-137037
680-89791-43	FM0023B-CS-SP	T	Solid	8270C LL	660-137037
Analysis Batch:660-137156					
LCS 660-137037/2-A	Lab Control Sample	T	Solid	8270C LL	660-137037

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89791-2
Sdg Number: 68089791-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-136953					
680-89791-22	CV0752C-GS-SP	T	Solid	Moisture	
680-89791-22MS	Matrix Spike	T	Solid	Moisture	
680-89791-22MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-89791-24	CV1312B-CS-SP	T	Solid	Moisture	
680-89791-25	CV1220A-CS	T	Solid	Moisture	
680-89791-26	CV1220A-CSD	T	Solid	Moisture	
680-89791-27	CV1220B-CS	T	Solid	Moisture	
680-89791-28	CV1227A-CS	T	Solid	Moisture	
680-89791-29	CV1227B-CS	T	Solid	Moisture	
680-89791-30	CV1227C-CS	T	Solid	Moisture	
680-89791-31	CV1228A-CS	T	Solid	Moisture	
680-89791-32	CV1228B-CS	T	Solid	Moisture	
680-89791-33	CV1144A-CS	T	Solid	Moisture	
680-89791-34	CV1144B-CS	T	Solid	Moisture	
680-89791-35	CV1144C-CS	T	Solid	Moisture	
680-89791-36	CV1144C-CSD	T	Solid	Moisture	
680-89791-37	CV1146A-GS	T	Solid	Moisture	
680-89791-38	CV1224A-CS	T	Solid	Moisture	
680-89791-39	CV1224B-CS	T	Solid	Moisture	
680-89791-40	CV0282A-CS-SP	T	Solid	Moisture	
680-89791-A-41 MS	Matrix Spike	T	Solid	Moisture	
680-89791-A-41 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-89791-42	FM0023A-CS-SP	T	Solid	Moisture	
680-89791-43	FM0023B-CS-SP	T	Solid	Moisture	

Report Basis
T = Total

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Instrument ID: BSMA5973 Analysis Batch Number: 136892

Lab Sample ID: IC 660-136892/3 Client Sample ID:

Date Analyzed: 04/26/13 10:03 Lab File ID: 1AD26003.D GC Column:

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

Lab Sample ID: IC 660-136892/4 Client Sample ID:

Date Analyzed: 04/26/13 10:18 Lab File ID: 1AD26004.D GC Column:

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

Lab Sample ID: IC 660-136892/5 Client Sample ID:

Date Analyzed: 04/26/13 10:33 Lab File ID: 1AD26005.D GC Column:

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

Lab Sample ID: IC 660-136892/6 Client Sample ID:

Date Analyzed: 04/26/13 10:48 Lab File ID: 1AD26006.D GC Column:

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

Lab Sample ID: ICIS 660-136892/7 Client Sample ID:

Date Analyzed: 04/26/13 11:03 Lab File ID: 1AD26007.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Chrysene	6.60	Baseline Event	cantins	04/26/

Lab Sample ID: IC 660-136892/8 Client Sample ID:

Date Analyzed: 04/26/13 11:19 Lab File ID: 1AD26008.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Chrysene	6.60	Baseline Event	cantins	04/26/

DB-5MS ID: 250(um)

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DB-5MS ID: 250(um)

DB-5MS ID: 250(um)

DB-5MS ID: 250(um)

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Instrument ID: BSMA5973 Analysis Batch Number: 136892

Lab Sample ID: IC 660-136892/9 Client Sample ID:

Date Analyzed: 04/26/13 11:34 Lab File ID: 1AD26009.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Chrysene	6.61	Baseline Event	cantins	04/26/
Benzo[k]fluoranthene	7.42	Baseline Event	cantins	04/26/

Lab Sample ID: ICV 660-136892/10 Client Sample ID:

Date Analyzed: 04/26/13 11:49 Lab File ID: 1AD26010.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Carbazole	4.73	Baseline Event	cantins	04/26/

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Instrument ID: BSMA5973 Analysis Batch Number: 137070

Lab Sample ID: CCVIS 660-137070/7 Client Sample ID:

Date Analyzed: 05/02/13 16:18 Lab File ID: 1AE02006.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[g,h,i]perylene	8.62	Baseline Event	cantins	05/02/

Lab Sample ID: LCS 660-136975/2-A Client Sample ID:

Date Analyzed: 05/02/13 17:26 Lab File ID: 1AE02010.D GC Column:

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

Lab Sample ID: 680-89791-22 Client Sample ID: CV0752C-GS-SP

Date Analyzed: 05/02/13 19:12 Lab File ID: 1AE02017.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Chrysene	6.57	Baseline Event	cantins	05/03/
Benzo[b]fluoranthene	7.37	Analyte not Identified by the Data System	cantins	05/03/
Benzo[k]fluoranthene	7.39	Analyte not Identified by the Data System	cantins	05/03/
Benzo[g,h,i]perylene	8.62	Baseline Event	cantins	05/03/

Lab Sample ID: 680-89791-22 MS Client Sample ID: CV0752C-GS-SP MS

Date Analyzed: 05/02/13 19:27 Lab File ID: 1AE02018.D GC Column:

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

Lab Sample ID: 680-89791-22MSD Client Sample ID: CV0752C-GS-SP MSD

Date Analyzed: 05/02/13 19:42 Lab File ID: 1AE02019.D GC Column:

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

Lab Sample ID: 680-89791-24 Client Sample ID: CV1312B-CS-SP

Date Analyzed: 05/02/13 20:12 Lab File ID: 1AE02021.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.38	Split Peak	cantins	05/03/
Benzo[k]fluoranthene	7.39	Baseline Event	cantins	05/03/
Indeno[1,2,3-cd]pyrene	8.42	Split Peak	cantins	05/03/

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Instrument ID: BSMA5973 Analysis Batch Number: 137070

Lab Sample ID: 680-89791-25 Client Sample ID: CV1220A-CS

Date Analyzed: 05/02/13 20:27 Lab File ID: 1AE02022.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.40	Split Peak	cantins	05/03/
Benzo[k]fluoranthene	7.41	Baseline Event	cantins	05/03/
Indeno[1,2,3-cd]pyrene	8.46	Split Peak	cantins	05/03/

Lab Sample ID: 680-89791-26 Client Sample ID: CV1220A-CSD

Date Analyzed: 05/02/13 20:43 Lab File ID: 1AE02023.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.39	Split Peak	cantins	05/03/
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	05/03/
Indeno[1,2,3-cd]pyrene	8.45	Split Peak	cantins	05/03/

Lab Sample ID: 680-89791-27 Client Sample ID: CV1220B-CS

Date Analyzed: 05/02/13 20:57 Lab File ID: 1AE02024.D GC Column:

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

Lab Sample ID: 680-89791-28 Client Sample ID: CV1227A-CS

Date Analyzed: 05/02/13 21:12 Lab File ID: 1AE02025.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.38	Split Peak	cantins	05/03/
Benzo[k]fluoranthene	7.39	Baseline Event	cantins	05/03/
Indeno[1,2,3-cd]pyrene	8.44	Split Peak	cantins	05/03/
Benzo[g,h,i]perylene	8.66	Baseline Event	cantins	05/03/

Lab Sample ID: 680-89791-29 Client Sample ID: CV1227B-CS

Date Analyzed: 05/02/13 21:27 Lab File ID: 1AE02026.D GC Column:

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

DB-5MS ID: 250(um)

DB-5MS ID: 250(um)

DB-5MS ID: 250(um)

DB-5MS ID: 250(um)

DB-5MS ID: 250(um)

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Instrument ID: BSMA5973 Analysis Batch Number: 137070

Lab Sample ID: 680-89791-30 Client Sample ID: CV1227C-CS

Date Analyzed: 05/02/13 21:42 Lab File ID: 1AE02027.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.39	Split Peak	cantins	05/03/
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	05/03/
Indeno[1,2,3-cd]pyrene	8.45	Split Peak	cantins	05/03/

Lab Sample ID: 680-89791-31 Client Sample ID: CV1228A-CS

Date Analyzed: 05/02/13 21:57 Lab File ID: 1AE02028.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.38	Split Peak	cantins	05/03/
Benzo[k]fluoranthene	7.39	Baseline Event	cantins	05/03/

Lab Sample ID: 680-89791-32 Client Sample ID: CV1228B-CS

Date Analyzed: 05/02/13 22:12 Lab File ID: 1AE02029.D GC Column:

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

Lab Sample ID: 680-89791-33 Client Sample ID: CV1144A-CS

Date Analyzed: 05/02/13 22:27 Lab File ID: 1AE02030.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.38	Split Peak	cantins	05/03/
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	05/03/
Indeno[1,2,3-cd]pyrene	8.42	Split Peak	cantins	05/03/
Dibenz(a,h)anthracene	8.44	Baseline Event	cantins	05/03/

Lab Sample ID: 680-89791-34 Client Sample ID: CV1144B-CS

Date Analyzed: 05/02/13 22:42 Lab File ID: 1AE02031.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.39	Split Peak	cantins	05/03/
Benzo[k]fluoranthene	7.39	Baseline Event	cantins	05/03/
Indeno[1,2,3-cd]pyrene	8.44	Split Peak	cantins	05/03/

DB-5MS ID: 250(um)

DB-5MS ID: 250(um)

DB-5MS ID: 250(um)

DB-5MS ID: 250(um)

DB-5MS ID: 250(um)

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Instrument ID: BSMA5973 Analysis Batch Number: 137070

Lab Sample ID: 680-89791-35 Client Sample ID: CV1144C-CS

Date Analyzed: 05/02/13 22:57 Lab File ID: 1AE02032.D GC Column:

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

DB-5MS _____ ID: 250(um)

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Instrument ID: BSMA5973 Analysis Batch Number: 137156

Lab Sample ID: IC 660-137156/4 Client Sample ID:

Date Analyzed: 05/06/13 10:40 Lab File ID: 1AE06004.D GC Column:

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

Lab Sample ID: IC 660-137156/5 Client Sample ID:

Date Analyzed: 05/06/13 10:56 Lab File ID: 1AE06005.D GC Column:

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

Lab Sample ID: IC 660-137156/6 Client Sample ID:

Date Analyzed: 05/06/13 11:11 Lab File ID: 1AE06006.D GC Column:

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

Lab Sample ID: IC 660-137156/7 Client Sample ID:

Date Analyzed: 05/06/13 11:26 Lab File ID: 1AE06007.D GC Column:

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

Lab Sample ID: IC 660-137156/9 Client Sample ID:

Date Analyzed: 05/06/13 11:56 Lab File ID: 1AE06009.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Anthracene	4.57	Baseline Event	cantins	05/06/

DB-5MS ID: 250(um)

DB-5MS ID: 250(um)

DB-5MS ID: 250(um)

DB-5MS ID: 250(um)

DB-5MS ID: 250(um)

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Instrument ID: BSMA5973 Analysis Batch Number: 137156

Lab Sample ID: LCS 660-137037/2-A Client Sample ID:

Date Analyzed: 05/06/13 14:52 Lab File ID: 1AE06017.D GC Column:

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

DB-5MS _____ ID: 250(um)

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

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:

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

Lab Sample ID: IC 660-136164/16 Client Sample ID:

Date Analyzed: 04/04/13 14:11 Lab File ID: 1DD04008.D GC Column:

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

Lab Sample ID: IC 660-136164/17 Client Sample ID:

Date Analyzed: 04/04/13 14:34 Lab File ID: 1DD04009.D GC Column:

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

Lab Sample ID: IC 660-136164/18 Client Sample ID:

Date Analyzed: 04/04/13 14:57 Lab File ID: 1DD04010.D GC Column:

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

Lab Sample ID: ICIS 660-136164/19 Client Sample ID:

Date Analyzed: 04/04/13 15:19 Lab File ID: 1DD04011.D GC Column:

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

Lab Sample ID: IC 660-136164/20 Client Sample ID:

Date Analyzed: 04/04/13 15:42 Lab File ID: 1DD04012.D GC Column:

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

Lab Sample ID: IC 660-136164/21 Client Sample ID:

Date Analyzed: 04/04/13 16:04 Lab File ID: 1DD04013.D GC Column:

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

DB-5MS ID: 250(um)

DB-5MS ID: 250(um)

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GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Instrument ID: BSMD5973 Analysis Batch Number: 136164

Lab Sample ID: ICV 660-136164/22 Client Sample ID:

Date Analyzed: 04/04/13 16:27 Lab File ID: 1DD04014.D GC Column:

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

DB-5MS _____ ID: 250(um)

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Instrument ID: BSMD5973 Analysis Batch Number: 137126

Lab Sample ID: CCVIS 660-137126/3 Client Sample ID:

Date Analyzed: 05/03/13 10:32 Lab File ID: 1DE03003.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Naphthalene	6.03	Baseline Event	cantins	05/03/
Indeno[1,2,3-cd]pyrene	14.65	Baseline Event	cantins	05/03/
Dibenz(a,h)anthracene	14.67	Baseline Event	cantins	05/03/
Benzo[g,h,i]perylene	15.08	Baseline Event	cantins	05/03/

Lab Sample ID: 680-89791-36 Client Sample ID: CV1144C-CSD

Date Analyzed: 05/03/13 12:13 Lab File ID: 1DE03007.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Naphthalene	6.02	Baseline Event	cantins	05/06/
2-Methylnaphthalene	6.73	Baseline Event	cantins	05/06/
1-Methylnaphthalene	6.83	Baseline Event	cantins	05/06/
Benzo[b]fluoranthene	12.52	Split Peak	cantins	05/06/
Benzo[k]fluoranthene	12.55	Baseline Event	cantins	05/06/
Indeno[1,2,3-cd]pyrene	14.65	Split Peak	cantins	05/06/
Benzo[g,h,i]perylene	15.08	Baseline Event	cantins	05/06/

Lab Sample ID: 680-89791-37 Client Sample ID: CV1146A-GS

Date Analyzed: 05/03/13 12:36 Lab File ID: 1DE03008.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Naphthalene	6.03	Baseline Event	cantins	05/06/
1-Methylnaphthalene	6.83	Baseline Event	cantins	05/06/
Phenanthrene	8.97	Baseline Event	cantins	05/06/
Anthracene	9.01	Baseline Event	cantins	05/06/
Pyrene	10.14	Baseline Event	cantins	05/06/
Benzo[b]fluoranthene	12.52	Split Peak	cantins	05/06/
Benzo[k]fluoranthene	12.55	Baseline Event	cantins	05/06/
Indeno[1,2,3-cd]pyrene	14.64	Baseline Event	cantins	05/06/
Benzo[g,h,i]perylene	15.07	Baseline Event	cantins	05/06/

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Instrument ID: BSMD5973 Analysis Batch Number: 137126

Lab Sample ID: 680-89791-38 Client Sample ID: CV1224A-CS

Date Analyzed: 05/03/13 12:59 Lab File ID: 1DE03009.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Naphthalene	6.02	Baseline Event	cantins	05/06/
2-Methylnaphthalene	6.73	Baseline Event	cantins	05/06/
1-Methylnaphthalene	6.83	Baseline Event	cantins	05/06/
Benzo[b]fluoranthene	12.53	Split Peak	cantins	05/06/
Benzo[k]fluoranthene	12.55	Analyte Misidentified by the Data System	cantins	05/06/
Indeno[1,2,3-cd]pyrene	14.64	Split Peak	cantins	05/06/
Dibenz(a,h)anthracene	14.65	Baseline Event	cantins	05/06/
Benzo[g,h,i]perylene	15.08	Baseline Event	cantins	05/06/

Lab Sample ID: 680-89791-39 Client Sample ID: CV1224B-CS

Date Analyzed: 05/03/13 13:21 Lab File ID: 1DE03010.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Naphthalene	6.02	Baseline Event	cantins	05/06/
2-Methylnaphthalene	6.73	Baseline Event	cantins	05/06/
1-Methylnaphthalene	6.83	Baseline Event	cantins	05/06/
Indeno[1,2,3-cd]pyrene	14.65	Split Peak	cantins	05/06/
Benzo[g,h,i]perylene	15.08	Baseline Event	cantins	05/06/

Lab Sample ID: 680-89791-40 Client Sample ID: CV0282A-CS-SP

Date Analyzed: 05/03/13 13:44 Lab File ID: 1DE03011.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Naphthalene	6.02	Baseline Event	cantins	05/06/
2-Methylnaphthalene	6.74	Baseline Event	cantins	05/06/
1-Methylnaphthalene	6.82	Baseline Event	cantins	05/06/
Fluoranthene	9.96	Baseline Event	cantins	05/06/
Indeno[1,2,3-cd]pyrene	14.65	Split Peak	cantins	05/06/
Benzo[g,h,i]perylene	15.08	Baseline Event	cantins	05/06/

Lab Sample ID: 680-89791-A-41-B MS Client Sample ID:

Date Analyzed: 05/03/13 14:29 Lab File ID: 1DE03013.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Naphthalene	6.03	Baseline Event	cantins	05/06/
1-Methylnaphthalene	6.83	Baseline Event	cantins	05/06/
Benzo[k]fluoranthene	12.57	Baseline Event	cantins	05/06/
Indeno[1,2,3-cd]pyrene	14.66	Split Peak	cantins	05/06/
Dibenz(a,h)anthracene	14.67	Baseline Event	cantins	05/06/
Benzo[g,h,i]perylene	15.09	Baseline Event	cantins	05/06/

DB-5MS ID: 250(um)

DB-5MS ID: 250(um)

DB-5MS ID: 250(um)

DB-5MS ID: 250(um)

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Instrument ID: BSMD5973 Analysis Batch Number: 137126

Lab Sample ID: 680-89791-A-41-C MSD Client Sample ID:

Date Analyzed: 05/03/13 14:52 Lab File ID: 1DE03014.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Naphthalene	6.03	Baseline Event	cantins	05/06/
1-Methylnaphthalene	6.83	Baseline Event	cantins	05/06/
Benzo[k]fluoranthene	12.57	Baseline Event	cantins	05/06/
Indeno[1,2,3-cd]pyrene	14.66	Split Peak	cantins	05/06/
Dibenz(a,h)anthracene	14.67	Baseline Event	cantins	05/06/
Benzo[g,h,i]perylene	15.09	Baseline Event	cantins	05/06/

Lab Sample ID: 680-89791-42 Client Sample ID: FM0023A-CS-SP

Date Analyzed: 05/03/13 15:14 Lab File ID: 1DE03015.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Naphthalene	6.03	Baseline Event	cantins	05/06/
1-Methylnaphthalene	6.83	Baseline Event	cantins	05/06/
Benzo[b]fluoranthene	12.54	Split Peak	cantins	05/06/
Benzo[k]fluoranthene	12.56	Baseline Event	cantins	05/06/
Indeno[1,2,3-cd]pyrene	14.66	Split Peak	cantins	05/06/
Dibenz(a,h)anthracene	14.68	Baseline Event	cantins	05/06/
Benzo[g,h,i]perylene	15.10	Baseline Event	cantins	05/06/

Lab Sample ID: 680-89791-43 Client Sample ID: FM0023B-CS-SP

Date Analyzed: 05/03/13 15:37 Lab File ID: 1DE03016.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Naphthalene	6.03	Baseline Event	cantins	05/06/
2-Methylnaphthalene	6.74	Baseline Event	cantins	05/06/
1-Methylnaphthalene	6.83	Baseline Event	cantins	05/06/
Fluoranthene	9.96	Baseline Event	cantins	05/06/
Pyrene	10.14	Baseline Event	cantins	05/06/
Benzo[b]fluoranthene	12.53	Split Peak	cantins	05/06/
Benzo[k]fluoranthene	12.56	Baseline Event	cantins	05/06/
Indeno[1,2,3-cd]pyrene	14.65	Split Peak	cantins	05/06/
Dibenz(a,h)anthracene	14.66	Baseline Event	cantins	05/06/
Benzo[g,h,i]perylene	15.08	Baseline Event	cantins	05/06/

DB-5MS ID: 250(um)

DB-5MS ID: 250(um)

DB-5MS ID: 250(um)

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.: 680-89791-2

SDG No.: 68089791-2

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0752C-GS-SP	680-89791-22	47
CV1312B-CS-SP	680-89791-24	45
CV1220A-CS	680-89791-25	45
CV1220A-CSD	680-89791-26	39
CV1220B-CS	680-89791-27	46
CV1227A-CS	680-89791-28	45
CV1227B-CS	680-89791-29	56
CV1227C-CS	680-89791-30	42
CV1228A-CS	680-89791-31	49
CV1228B-CS	680-89791-32	49
CV1144A-CS	680-89791-33	50
CV1144B-CS	680-89791-34	55
CV1144C-CS	680-89791-35	41
CV1144C-CSD	680-89791-36	40
CV1146A-GS	680-89791-37	64
CV1224A-CS	680-89791-38	51
CV1224B-CS	680-89791-39	42
CV0282A-CS-SP	680-89791-40	49
FM0023A-CS-SP	680-89791-42	59
FM0023B-CS-SP	680-89791-43	55
	MB 660-136975/1-A	57
	MB 660-137037/1-A	70
	LCS 660-136975/2-A	58
	LCS 660-137037/2-A	70
	680-89791-A-41-B MS	51
CV0752C-GS-SP MS	680-89791-22 MS	55
	680-89791-A-41-C MSD	66
CV0752C-GS-SP MSD	680-89791-22MSD	53

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Matrix: Solid Level: Low Lab File ID: 1AE02010.D

Lab ID: LCS 660-136975/2-A Client ID:

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

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Matrix: Solid Level: Low Lab File ID: 1AE06017.D

Lab ID: LCS 660-137037/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	665	411	62	39-130	
Acenaphthylene	665	463	70	38-130	
Anthracene	665	452	68	37-130	
Benzo[a]anthracene	665	465	70	40-130	
Benzo[a]pyrene	665	384	58	49-130	
Benzo[b]fluoranthene	665	375	56	37-130	
Benzo[g,h,i]perylene	665	545	82	32-130	
Benzo[k]fluoranthene	665	405	61	32-130	
Chrysene	665	416	62	41-130	
Dibenz(a,h)anthracene	665	537	81	27-130	
Fluoranthene	665	427	64	40-130	
Fluorene	665	467	70	40-130	
Indeno[1,2,3-cd]pyrene	665	522	78	30-130	
1-Methylnaphthalene	665	469	71	31-130	
2-Methylnaphthalene	665	475	71	33-130	
Naphthalene	665	425	64	36-130	
Phenanthrene	665	451	68	42-130	
Pyrene	665	557	84	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Matrix: Solid Level: Low Lab File ID: 1DE03013.D

Lab ID: 680-89791-A-41-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	888	130 U	413	46	39-130	
Acenaphthylene	888	53 U	435	49	38-130	
Anthracene	888	16	482	52	37-130	
Benzo[a]anthracene	888	82	512	48	40-130	
Benzo[a]pyrene	888	76	454	43	49-130	F
Benzo[b]fluoranthene	888	120	492	42	37-130	
Benzo[g,h,i]perylene	888	58	522	52	32-130	
Benzo[k]fluoranthene	888	47	587	61	32-130	
Chrysene	888	110	540	48	41-130	
Dibenz(a,h)anthracene	888	19 J	535	58	27-130	
Fluoranthene	888	140	506	42	40-130	
Fluorene	888	27 U	449	51	40-130	
Indeno[1,2,3-cd]pyrene	888	34	402	41	30-130	
1-Methylnaphthalene	888	23 J	561	61	31-130	
2-Methylnaphthalene	888	28 J	481	51	33-130	
Naphthalene	888	40 J	480	50	36-130	
Phenanthrene	888	63	457	44	42-130	
Pyrene	888	97	479	43	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Matrix: Solid Level: Low Lab File ID: 1AE02018.D

Lab ID: 680-89791-22 MS Client ID: CV0752C-GS-SP MS

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

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Matrix: Solid Level: Low Lab File ID: 1DE03014.D

Lab ID: 680-89791-A-41-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	889	522	59	23	40	39-130	
Acenaphthylene	889	539	61	21	40	38-130	
Anthracene	889	590	65	20	40	37-130	
Benzo[a]anthracene	889	651	64	24	40	40-130	
Benzo[a]pyrene	889	579	57	24	40	49-130	
Benzo[b]fluoranthene	889	612	56	22	40	37-130	
Benzo[g,h,i]perylene	889	636	65	20	40	32-130	
Benzo[k]fluoranthene	889	767	81	27	40	32-130	
Chrysene	889	678	64	23	40	41-130	
Dibenz(a,h)anthracene	889	683	75	24	40	27-130	
Fluoranthene	889	673	60	28	40	40-130	
Fluorene	889	588	66	27	40	40-130	
Indeno[1,2,3-cd]pyrene	889	483	51	18	40	30-130	
1-Methylnaphthalene	889	591	64	5	40	31-130	
2-Methylnaphthalene	889	571	61	17	40	33-130	
Naphthalene	889	579	61	19	40	36-130	
Phenanthrene	889	604	61	28	40	42-130	
Pyrene	889	595	56	22	40	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Matrix: Solid Level: Low Lab File ID: 1AE02019.D

Lab ID: 680-89791-22MSD Client ID: CV0752C-GS-SP MSD

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

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Lab File ID: 1AE02008.D Lab Sample ID: MB 660-136975/1-A

Matrix: Solid Date Extracted: 04/30/2013 14:42

Instrument ID: BSMA5973 Date Analyzed: 05/02/2013 16:56

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136975/2-A	1AE02010.D	05/02/2013 17:26
CV0752C-GS-SP	680-89791-22	1AE02017.D	05/02/2013 19:12
CV0752C-GS-SP MS	680-89791-22 MS	1AE02018.D	05/02/2013 19:27
CV0752C-GS-SP MSD	680-89791-22MSD	1AE02019.D	05/02/2013 19:42
CV1312B-CS-SP	680-89791-24	1AE02021.D	05/02/2013 20:12
CV1220A-CS	680-89791-25	1AE02022.D	05/02/2013 20:27
CV1220A-CSD	680-89791-26	1AE02023.D	05/02/2013 20:43
CV1220B-CS	680-89791-27	1AE02024.D	05/02/2013 20:57
CV1227A-CS	680-89791-28	1AE02025.D	05/02/2013 21:12
CV1227B-CS	680-89791-29	1AE02026.D	05/02/2013 21:27
CV1227C-CS	680-89791-30	1AE02027.D	05/02/2013 21:42
CV1228A-CS	680-89791-31	1AE02028.D	05/02/2013 21:57
CV1228B-CS	680-89791-32	1AE02029.D	05/02/2013 22:12
CV1144A-CS	680-89791-33	1AE02030.D	05/02/2013 22:27
CV1144B-CS	680-89791-34	1AE02031.D	05/02/2013 22:42
CV1144C-CS	680-89791-35	1AE02032.D	05/02/2013 22:57

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Lab File ID: 1DE03005.D Lab Sample ID: MB 660-137037/1-A

Matrix: Solid Date Extracted: 05/02/2013 08:14

Instrument ID: BSMD5973 Date Analyzed: 05/03/2013 11:28

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
CV1144C-CSD	680-89791-36	1DE03007.D	05/03/2013 12:13
CV1146A-GS	680-89791-37	1DE03008.D	05/03/2013 12:36
CV1224A-CS	680-89791-38	1DE03009.D	05/03/2013 12:59
CV1224B-CS	680-89791-39	1DE03010.D	05/03/2013 13:21
CV0282A-CS-SP	680-89791-40	1DE03011.D	05/03/2013 13:44
	680-89791-A-41-B MS	1DE03013.D	05/03/2013 14:29
	680-89791-A-41-C MSD	1DE03014.D	05/03/2013 14:52
FM0023A-CS-SP	680-89791-42	1DE03015.D	05/03/2013 15:14
FM0023B-CS-SP	680-89791-43	1DE03016.D	05/03/2013 15:37
	LCS 660-137037/2-A	1AE06017.D	05/06/2013 14:52

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

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Lab File ID: 1AD26002.D DFTPP Injection Date: 04/26/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 09:50

Analysis Batch No.: 136892

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

1-Value is % mass 69 2-Value is % mass 442

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

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

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

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Lab File ID: 1AE02005.D DFTPP Injection Date: 05/02/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 16:01

Analysis Batch No.: 137070

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

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-137070/7	1AE02006.D	05/02/2013	16:18
	MB 660-136975/1-A	1AE02008.D	05/02/2013	16:56
	LCS 660-136975/2-A	1AE02010.D	05/02/2013	17:26
CV0752C-GS-SP	680-89791-22	1AE02017.D	05/02/2013	19:12
CV0752C-GS-SP MS	680-89791-22 MS	1AE02018.D	05/02/2013	19:27
CV0752C-GS-SP MSD	680-89791-22MSD MSD	1AE02019.D	05/02/2013	19:42
CV1312B-CS-SP	680-89791-24	1AE02021.D	05/02/2013	20:12
CV1220A-CS	680-89791-25	1AE02022.D	05/02/2013	20:27
CV1220A-CSD	680-89791-26	1AE02023.D	05/02/2013	20:43
CV1220B-CS	680-89791-27	1AE02024.D	05/02/2013	20:57
CV1227A-CS	680-89791-28	1AE02025.D	05/02/2013	21:12
CV1227B-CS	680-89791-29	1AE02026.D	05/02/2013	21:27
CV1227C-CS	680-89791-30	1AE02027.D	05/02/2013	21:42
CV1228A-CS	680-89791-31	1AE02028.D	05/02/2013	21:57
CV1228B-CS	680-89791-32	1AE02029.D	05/02/2013	22:12
CV1144A-CS	680-89791-33	1AE02030.D	05/02/2013	22:27
CV1144B-CS	680-89791-34	1AE02031.D	05/02/2013	22:42
CV1144C-CS	680-89791-35	1AE02032.D	05/02/2013	22:57

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

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Lab File ID: 1AE06002.D DFTPP Injection Date: 05/06/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 10:11

Analysis Batch No.: 137156

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

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 660-137156/3	1AE06003.D	05/06/2013	10:24
	IC 660-137156/4	1AE06004.D	05/06/2013	10:40
	IC 660-137156/5	1AE06005.D	05/06/2013	10:56
	IC 660-137156/6	1AE06006.D	05/06/2013	11:11
	IC 660-137156/7	1AE06007.D	05/06/2013	11:26
	IC 660-137156/8	1AE06008.D	05/06/2013	11:41
	IC 660-137156/9	1AE06009.D	05/06/2013	11:56
	ICV 660-137156/10	1AE06010.D	05/06/2013	12:11
	LCS 660-137037/2-A	1AE06017.D	05/06/2013	14:52

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

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

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.: 680-89791-2

SDG No.: 68089791-2

Lab File ID: 1DE03002.D DFTPP Injection Date: 05/03/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 10:16

Analysis Batch No.: 137126

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	57.6	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	50.4	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	51.2	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.9	
275	10.0 - 60.0 % of mass 198	26.7	
365	Greater than 1.0 % of mass 198	3.4	
441	Present but less than mass 443	8.8	
442	Greater than 50.0 % of mass 198	53.7	
443	15.0 - 24.0 % of mass 442	11.4	(21.2)2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-137126/3	1DE03003.D	05/03/2013	10:32
	MB 660-137037/1-A	1DE03005.D	05/03/2013	11:28
CV1144C-CSD	680-89791-36	1DE03007.D	05/03/2013	12:13
CV1146A-GS	680-89791-37	1DE03008.D	05/03/2013	12:36
CV1224A-CS	680-89791-38	1DE03009.D	05/03/2013	12:59
CV1224B-CS	680-89791-39	1DE03010.D	05/03/2013	13:21
CV0282A-CS-SP	680-89791-40	1DE03011.D	05/03/2013	13:44
	680-89791-A-41-B MS	1DE03013.D	05/03/2013	14:29
	680-89791-A-41-C MSD	1DE03014.D	05/03/2013	14:52
FM0023A-CS-SP	680-89791-42	1DE03015.D	05/03/2013	15:14
FM0023B-CS-SP	680-89791-43	1DE03016.D	05/03/2013	15:37

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

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Sample No.: ICIS 660-136892/7 Date Analyzed: 04/26/2013 11:03

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AD26007.D Heated Purge: (Y/N) N

Calibration ID: 2919

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

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Sample No.: ICIS 660-136892/7 Date Analyzed: 04/26/2013 11:03

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AD26007.D Heated Purge: (Y/N) N

Calibration ID: 2919

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

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Sample No.: CCVIS 660-137070/7 Date Analyzed: 05/02/2013 16:18

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AE02006.D Heated Purge: (Y/N) N

Calibration ID: 2919

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1450767	2.55	762472	3.58	1434463	4.53
UPPER LIMIT		2901534	3.05	1524944	4.08	2868926	5.03
LOWER LIMIT		725384	2.05	381236	3.08	717232	4.03
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136975/1-A		1328871	2.55	712860	3.58	1189239	4.53
LCS 660-136975/2-A		1623370	2.55	940356	3.58	1443047	4.53
680-89791-22	CV0752C-GS-SP	1285474	2.56	706908	3.58	1029889	4.54
680-89791-22 MS	CV0752C-GS-SP MS	1232986	2.55	663075	3.58	966784	4.54
680-89791-22MSD	CV0752C-GS-SP MSD	1135452	2.55	609121	3.59	872011	4.54
680-89791-24	CV1312B-CS-SP	1157570	2.56	636068	3.59	853130	4.54
680-89791-25	CV1220A-CS	1172234	2.56	581620	3.59	832876	4.54
680-89791-26	CV1220A-CSD	1131236	2.56	586850	3.59	795445	4.54
680-89791-27	CV1220B-CS	1217442	2.56	654822	3.59	969702	4.54
680-89791-28	CV1227A-CS	1157720	2.56	632082	3.59	899833	4.54
680-89791-29	CV1227B-CS	1171127	2.56	611528	3.59	873759	4.55
680-89791-30	CV1227C-CS	1072650	2.56	546473	3.59	792654	4.55
680-89791-31	CV1228A-CS	1165486	2.56	621282	3.59	852173	4.55
680-89791-32	CV1228B-CS	1160099	2.56	613298	3.59	885252	4.55
680-89791-33	CV1144A-CS	1232933	2.56	683263	3.59	1039869	4.55
680-89791-34	CV1144B-CS	1125062	2.56	582132	3.59	849031	4.55
680-89791-35	CV1144C-CS	1092598	2.56	563794	3.59	832847	4.55

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 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Sample No.: CCVIS 660-137070/7 Date Analyzed: 05/02/2013 16:18

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AE02006.D Heated Purge: (Y/N) N

Calibration ID: 2919

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1367246	6.55	1233398	7.64		
UPPER LIMIT		2734492	7.05	2466796	8.14		
LOWER LIMIT		683623	6.05	616699	7.14		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136975/1-A		1170549	6.55	1144344	7.63		
LCS 660-136975/2-A		1358032	6.55	1341044	7.64		
680-89791-22	CV0752C-GS-SP	831455	6.56	996790	7.65		
680-89791-22 MS	CV0752C-GS-SP MS	761987	6.56	887669	7.65		
680-89791-22MSD	CV0752C-GS-SP MSD	739170	6.56	879378	7.65		
680-89791-24	CV1312B-CS-SP	758691	6.56	895201	7.65		
680-89791-25	CV1220A-CS	805412	6.57	1003223	7.67		
680-89791-26	CV1220A-CSD	802142	6.57	977594	7.67		
680-89791-27	CV1220B-CS	792752	6.57	913734	7.66		
680-89791-28	CV1227A-CS	817469	6.57	938253	7.66		
680-89791-29	CV1227B-CS	782599	6.57	929571	7.66		
680-89791-30	CV1227C-CS	795934	6.58	958375	7.67		
680-89791-31	CV1228A-CS	830580	6.57	925117	7.67		
680-89791-32	CV1228B-CS	881442	6.57	937594	7.67		
680-89791-33	CV1144A-CS	815090	6.57	858365	7.66		
680-89791-34	CV1144B-CS	834321	6.57	923983	7.67		
680-89791-35	CV1144C-CS	819094	6.57	890052	7.67		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Sample No.: ICIS 660-137156/3 Date Analyzed: 05/06/2013 10:24

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AE06003.D Heated Purge: (Y/N) N

Calibration ID: 2919

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1347501	2.54	663107	3.58	1152475	4.52
UPPER LIMIT		2695002	3.04	1326214	4.08	2304950	5.02
LOWER LIMIT		673751	2.04	331554	3.08	576238	4.02
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-137156/10		1358957	2.55	723354	3.58	1301827	4.52
LCS 660-137037/2-A		1196490	2.55	655641	3.57	1074740	4.53

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Sample No.: ICIS 660-137156/3 Date Analyzed: 05/06/2013 10:24

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AE06003.D Heated Purge: (Y/N) N

Calibration ID: 2919

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1092561	6.53	1003019	7.63		
UPPER LIMIT		2185122	7.03	2006038	8.13		
LOWER LIMIT		546281	6.03	501510	7.13		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-137156/10		1182962	6.54	1130799	7.62		
LCS 660-137037/2-A		711012	6.54	850953	7.63		

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 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

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 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

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 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Sample No.: CCVIS 660-137126/3 Date Analyzed: 05/03/2013 10:32

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DE03003.D Heated Purge: (Y/N) N

Calibration ID: 2874

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1493654	6.00	955216	7.69	1664161	8.95
UPPER LIMIT		2987308	6.50	1910432	8.19	3328322	9.45
LOWER LIMIT		746827	5.50	477608	7.19	832081	8.45
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-137037/1-A		1370230	6.01	942213	7.69	1505344	8.95
680-89791-36	CV1144C-CSD	1838460	6.00	1246399	7.69	2081633	8.95
680-89791-37	CV1146A-GS	1368718	6.00	887820	7.69	1455432	8.95
680-89791-38	CV1224A-CS	1398225	6.01	941967	7.69	1556888	8.95
680-89791-39	CV1224B-CS	1495129	6.01	997582	7.69	1638001	8.95
680-89791-40	CV0282A-CS-SP	1496138	6.00	986407	7.69	1639099	8.95
680-89791-A-41-B MS		1448369	6.00	958532	7.69	1598117	8.95
680-89791-A-41-C MSD		1403708	6.00	911374	7.69	1478931	8.95
680-89791-42	FM0023A-CS-SP	1408046	6.00	928501	7.69	1551187	8.96
680-89791-43	FM0023B-CS-SP	1410071	6.00	915212	7.69	1515364	8.96

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 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Sample No.: CCVIS 660-137126/3 Date Analyzed: 05/03/2013 10:32

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DE03003.D Heated Purge: (Y/N) N

Calibration ID: 2874

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1669769	11.26	1568187	13.07		
UPPER LIMIT		3339538	11.76	3136374	13.57		
LOWER LIMIT		834885	10.76	784094	12.57		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-137037/1-A		1488703	11.26	1475833	13.07		
680-89791-36	CV1144C-CSD	2126657	11.26	2030881	13.07		
680-89791-37	CV1146A-GS	1453459	11.25	1439537	13.06		
680-89791-38	CV1224A-CS	1571564	11.25	1563743	13.07		
680-89791-39	CV1224B-CS	1661540	11.26	1769230	13.07		
680-89791-40	CV0282A-CS-SP	1743678	11.26	1777270	13.07		
680-89791-A-41-B MS		1618699	11.26	1612211	13.08		
680-89791-A-41-C MSD		1553244	11.26	1599186	13.07		
680-89791-42	FM0023A-CS-SP	1645269	11.26	1696248	13.08		
680-89791-43	FM0023B-CS-SP	1560468	11.26	1628986	13.08		

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 8270C LL

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: CV0752C-GS-SP | Lab Sample ID: 680-89791-22

Matrix: Solid | Lab File ID: 1AE02017.D

Analysis Method: 8270C LL | Date Collected: 04/25/2013 09:23

Extract. Method: 3546 | Date Extracted: 04/30/2013 14:42

Sample wt/vol: 15.02(g) | Date Analyzed: 05/02/2013 19:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137070 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	470	U	470	94
208-96-8	Acenaphthylene	190	U	190	23
120-12-7	Anthracene	39	U	39	20
56-55-3	Benzo[a]anthracene	61		38	18
50-32-8	Benzo[a]pyrene	49	U F	49	24
205-99-2	Benzo[b]fluoranthene	50	J	57	29
191-24-2	Benzo[g,h,i]perylene	35	J	94	21
207-08-9	Benzo[k]fluoranthene	17	J	38	17
218-01-9	Chrysene	51		42	21
53-70-3	Dibenz(a,h)anthracene	94	U	94	19
206-44-0	Fluoranthene	64	J	94	19
86-73-7	Fluorene	94	U	94	19
193-39-5	Indeno[1,2,3-cd]pyrene	94	U	94	33
90-12-0	1-Methylnaphthalene	190	U	190	21
91-57-6	2-Methylnaphthalene	190	U	190	33
91-20-3	Naphthalene	22	J	190	21
85-01-8	Phenanthrene	61		38	18
129-00-0	Pyrene	59	J	94	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	47		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02017.D
Lab Smp Id: 680-89791-A-22-A Client Smp ID: CV0752C-GS-SP
Inj Date : 02-MAY-2013 19:12
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89791-a-22-a
Misc Info : 680-89791-A-22-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\a-bFASTPAHi-m.m
Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 14
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	Weight Extracted
M	14.980	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.557	2.550	(1.000)	1285474	40.0000	
* 6 Acenaphthene-d10	164	3.582	3.581	(1.000)	706908	40.0000	
* 10 Phenanthrene-d10	188	4.539	4.532	(1.000)	1029889	40.0000	
$ 14 o-Terphenyl	230	4.832	4.831	(1.065)	19701	1.16952	366.3339
* 18 Chrysene-d12	240	6.558	6.551	(1.000)	831455	40.0000	
* 23 Perylene-d12	264	7.648	7.641	(1.000)	996790	40.0000	
2 Naphthalene	128	2.567	2.560	(1.004)	2223	0.06918	21.6690(Q)
11 Phenanthrene	178	4.549	4.548	(1.002)	5806	0.19461	60.9587
15 Fluoranthene	202	5.415	5.413	(1.193)	7035	0.20416	63.9488
16 Pyrene	202	5.580	5.579	(0.851)	5929	0.18691	58.5474
17 Benzo(a)anthracene	228	6.558	6.540	(1.000)	5256	0.19357	60.6327
19 Chrysene	228	6.574	6.572	(1.002)	4518	0.16401	51.3732(M)
20 Benzo(b)fluoranthene	252	7.365	7.363	(0.963)	4837	0.15984	50.0664(M)
21 Benzo(k)fluoranthene	252	7.386	7.384	(0.966)	1906	0.05478	17.1589(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
26 Benzo(g,h,i)perylene	276	8.620	8.624	(1.127)	3569	0.11219	35.1400(M)

QC Flag Legend

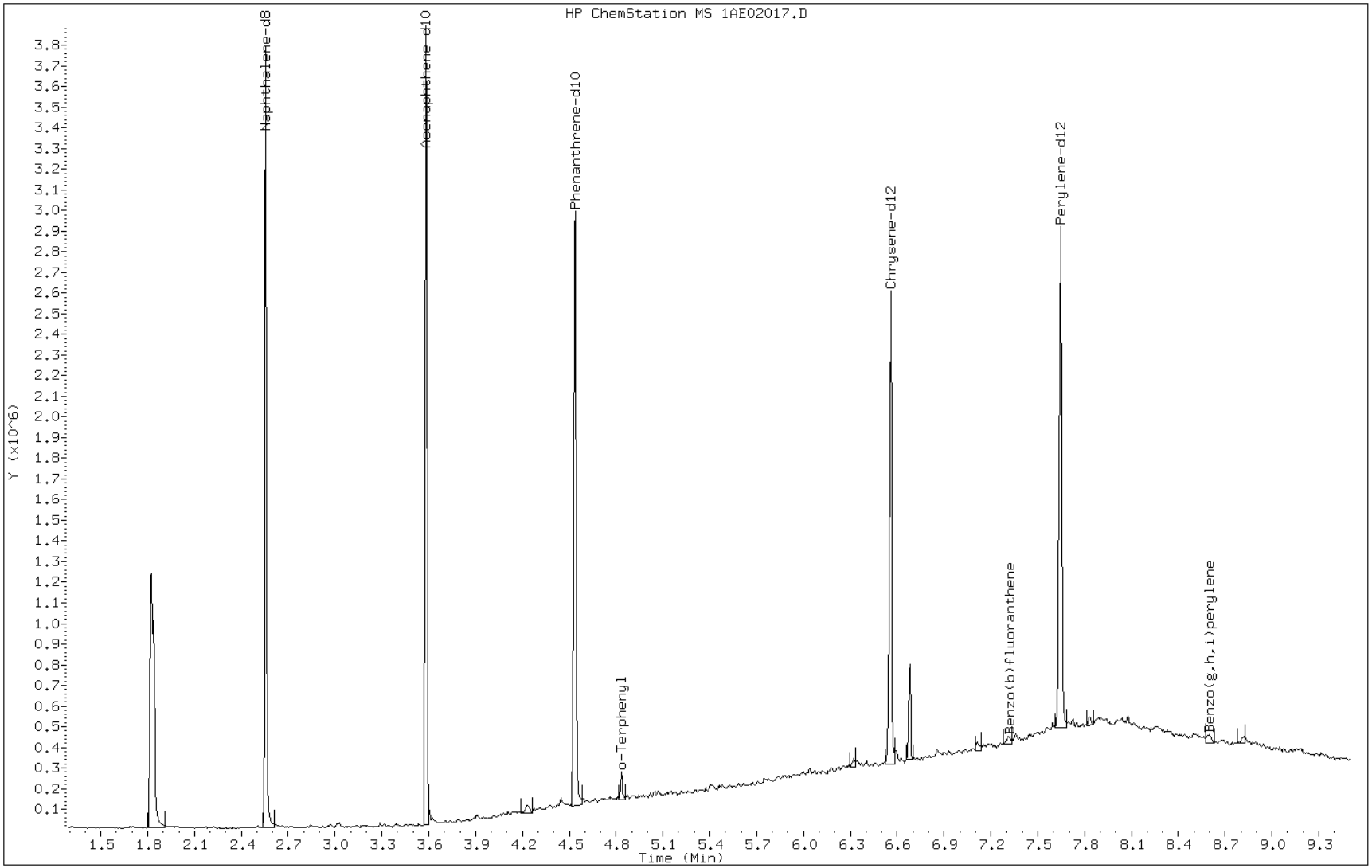
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE02017.D

Date: 02-MAY-2013 19:12

Client ID: CV0752C-GS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-22-a Operator: SCC



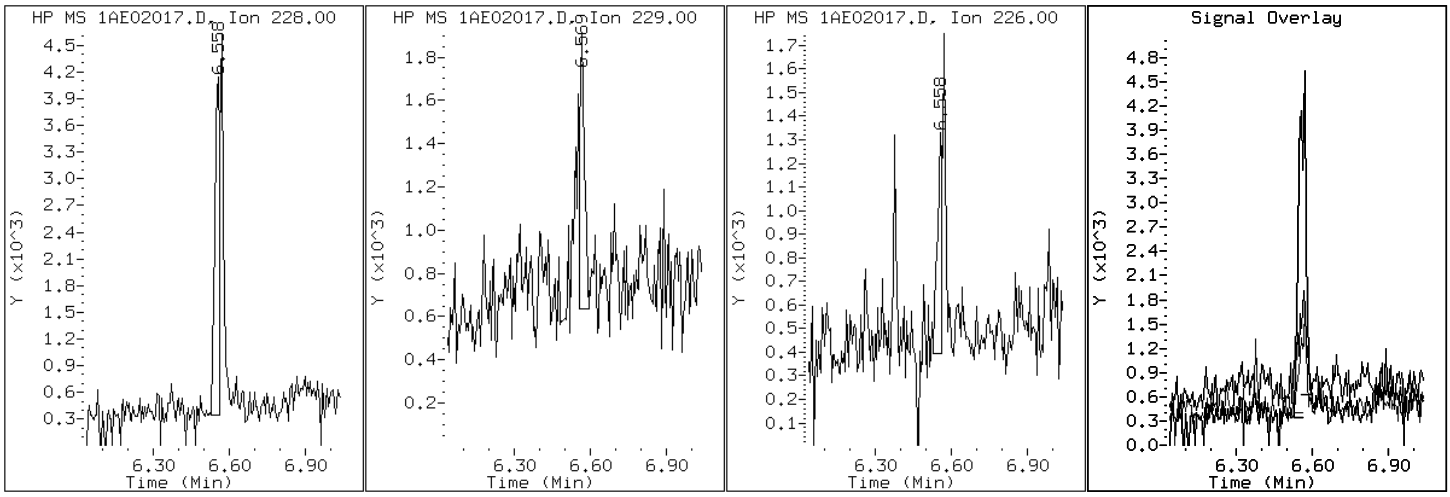
Data File: 1AE02017.D

Date: 02-MAY-2013 19:12

Client ID: CV0752C-GS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-22-a Operator: SCC

17 Benzo(a)anthracene



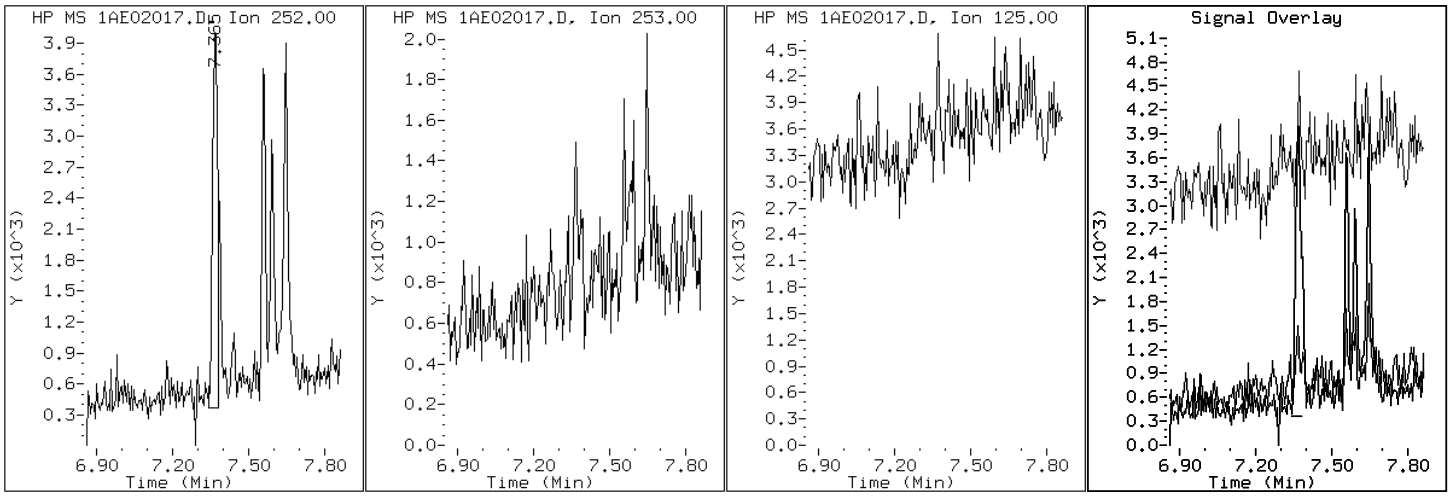
Data File: 1AE02017.D

Date: 02-MAY-2013 19:12

Client ID: CV0752C-GS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-22-a Operator: SCC

20 Benzo(b)fluoranthene



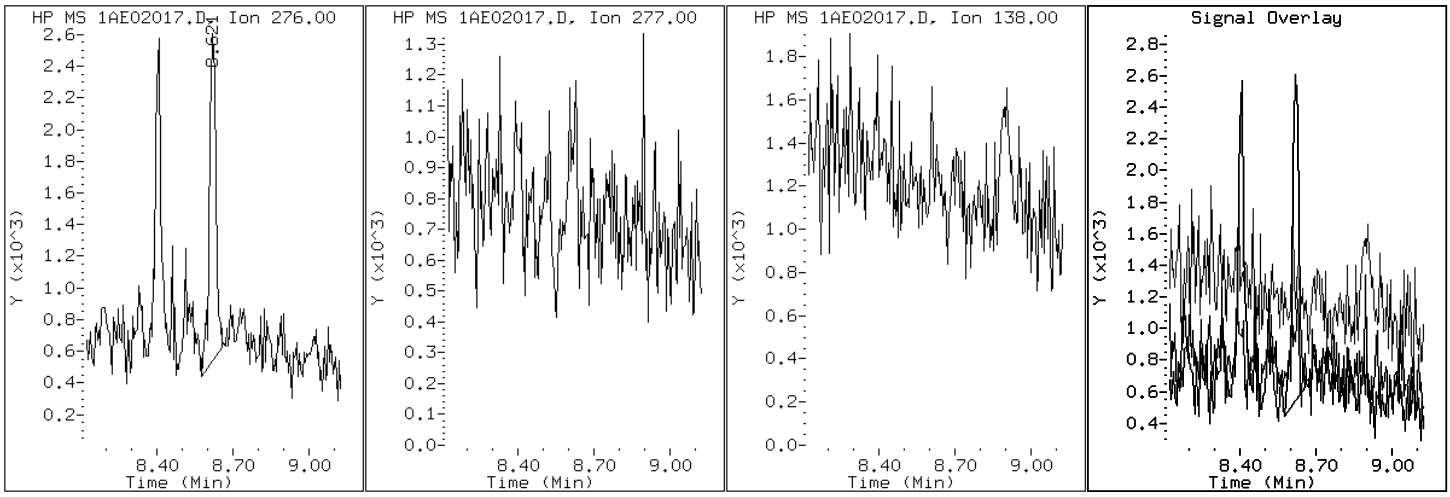
Data File: 1AE02017.D

Date: 02-MAY-2013 19:12

Client ID: CV0752C-GS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-22-a Operator: SCC

26 Benzo(g,h,i)perylene



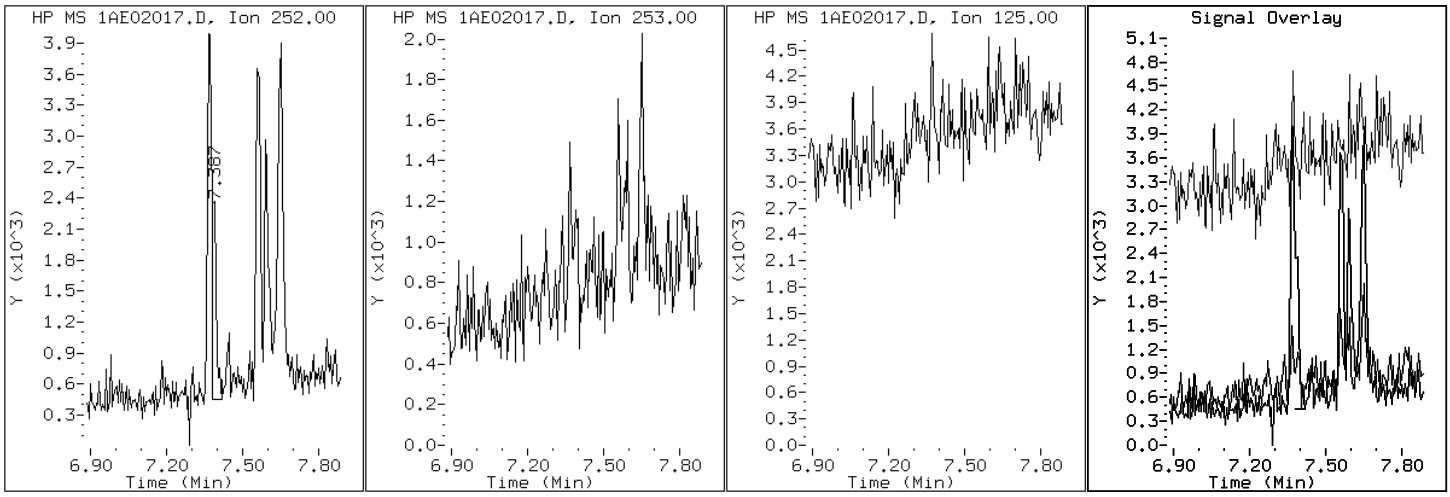
Data File: 1AE02017.D

Date: 02-MAY-2013 19:12

Client ID: CV0752C-GS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-22-a Operator: SCC

21 Benzo(k)fluoranthene



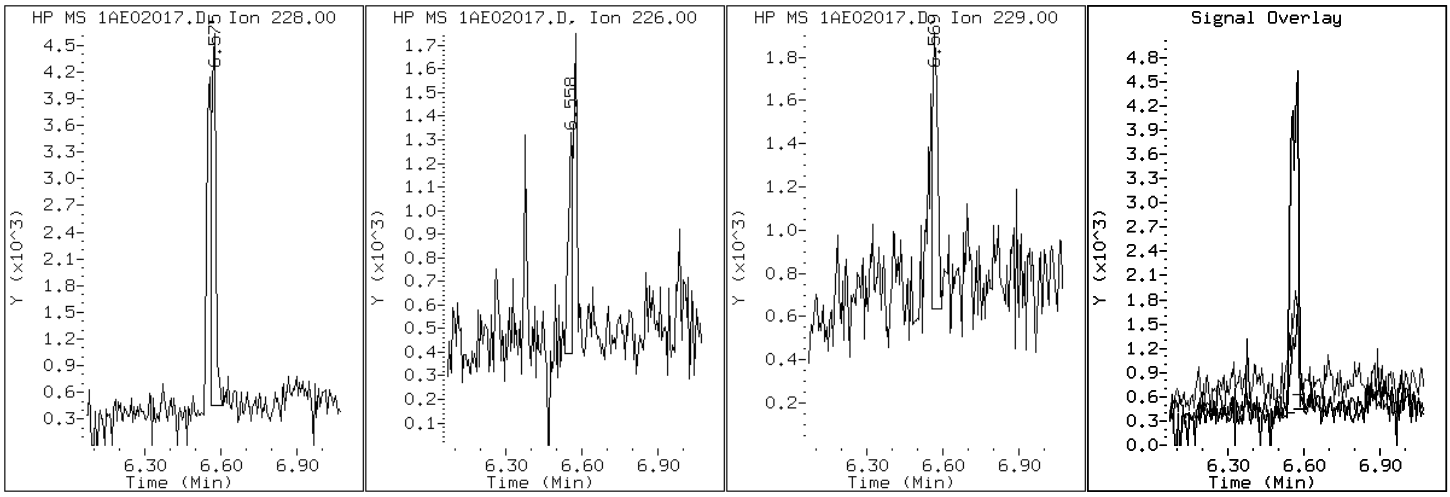
Data File: 1AE02017.D

Date: 02-MAY-2013 19:12

Client ID: CV0752C-GS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-22-a Operator: SCC

19 Chrysene



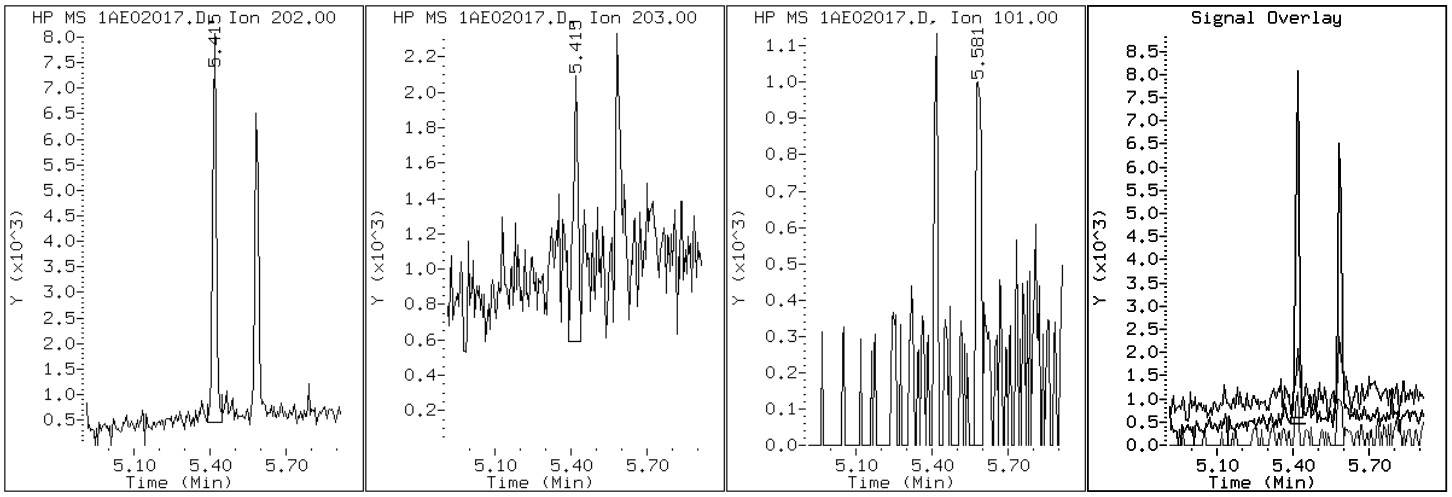
Data File: 1AE02017.D

Date: 02-MAY-2013 19:12

Client ID: CV0752C-GS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-22-a Operator: SCC

15 Fluoranthene



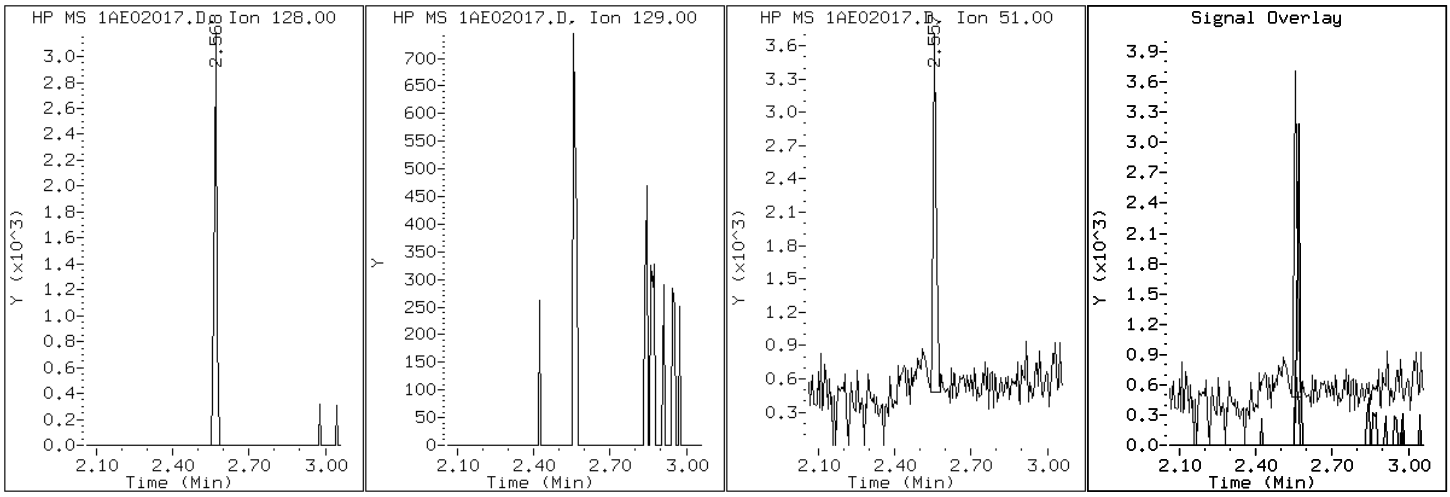
Data File: 1AE02017.D

Date: 02-MAY-2013 19:12

Client ID: CV0752C-GS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-22-a Operator: SCC

2 Naphthalene



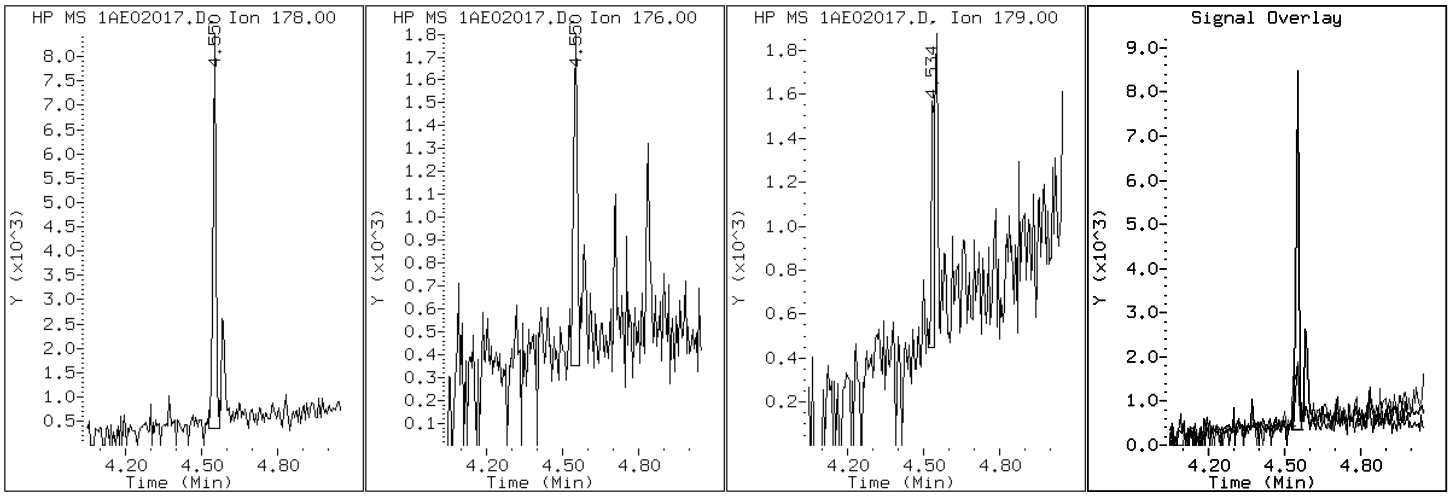
Data File: 1AE02017.D

Date: 02-MAY-2013 19:12

Client ID: CV0752C-GS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-22-a Operator: SCC

11 Phenanthrene



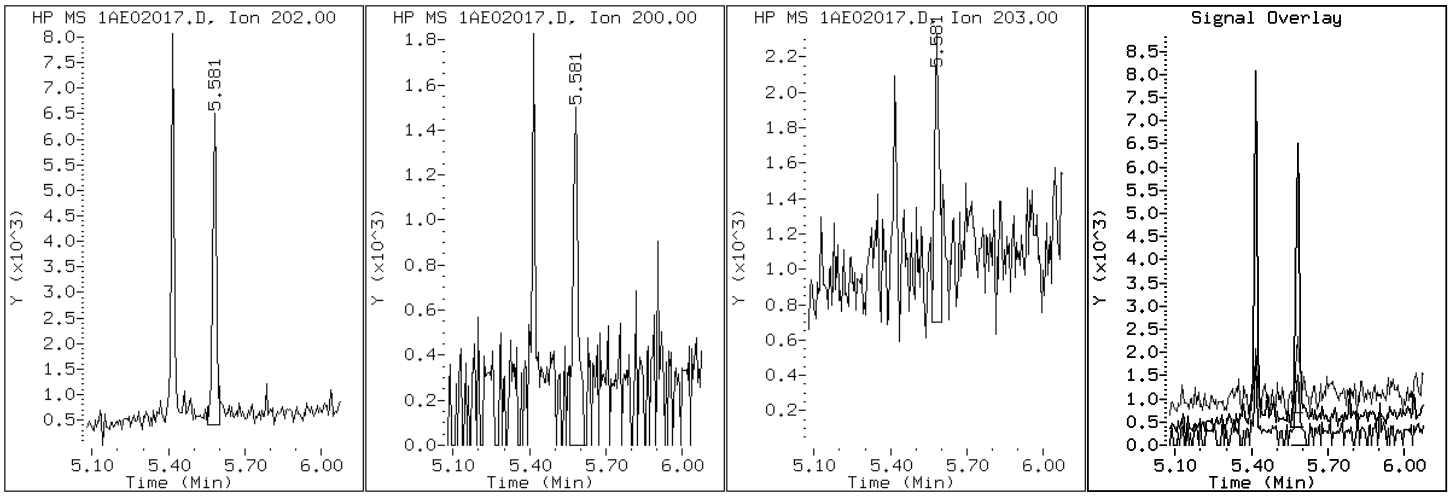
Data File: 1AE02017.D

Date: 02-MAY-2013 19:12

Client ID: CV0752C-GS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-22-a Operator: SCC

16 Pyrene



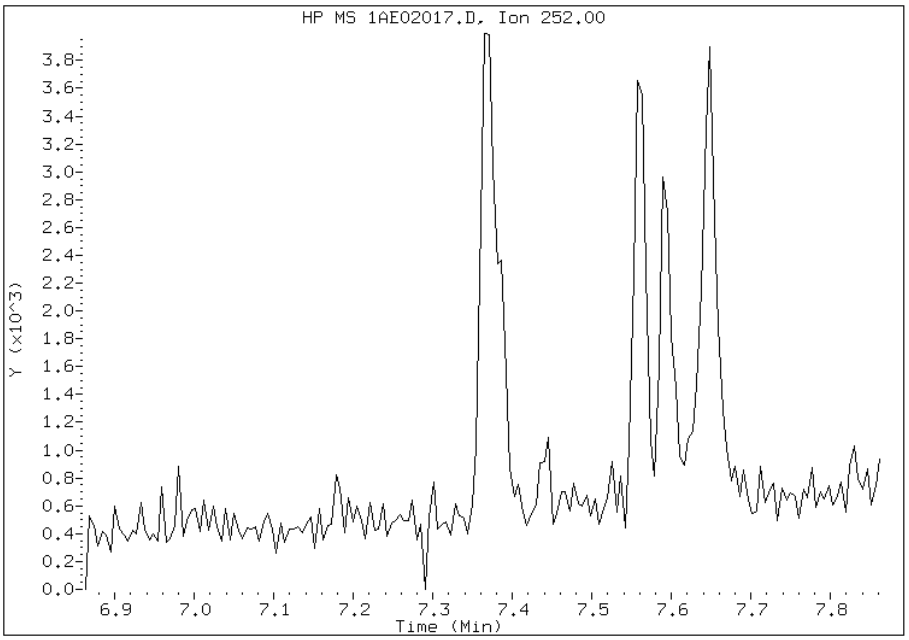
Manual Integration Report

Data File: 1AE02017.D
Inj. Date and Time: 02-MAY-2013 19:12
Instrument ID: BSMA5973.i
Client ID: CV0752C-GS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/03/2013

Processing Integration Results

Not Detected

Expected RT: 7.36



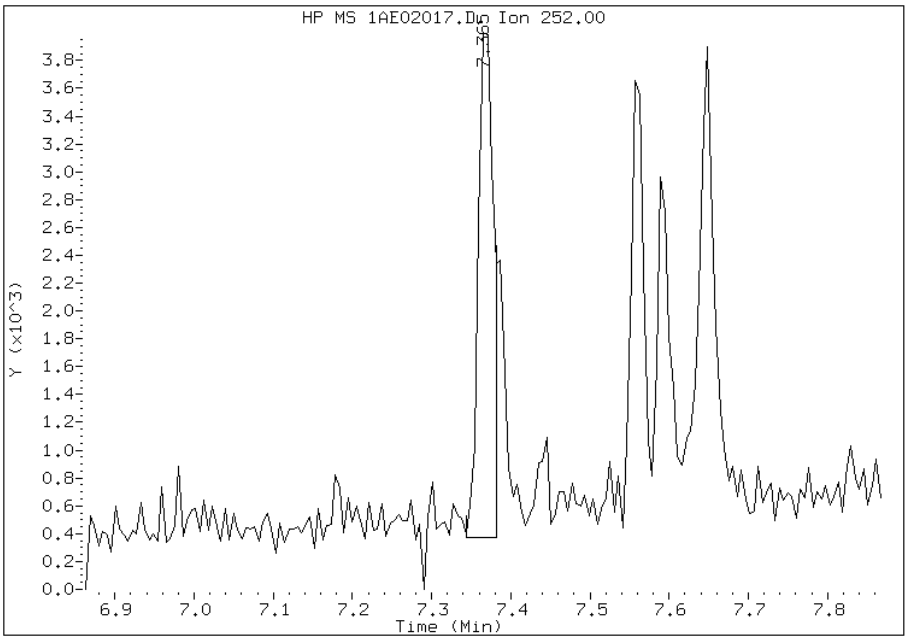
Manual Integration Results

RT: 7.37

Response: 4837

Amount: 0

Conc: 50



Manually Integrated By: cantins
Modification Date: 03-May-2013 10:43
Manual Integration Reason: Analyte not Identified by the Data System

Manual Integration Report

Data File: 1AE02017.D
Inj. Date and Time: 02-MAY-2013 19:12
Instrument ID: BSMA5973.i
Client ID: CV0752C-GS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/03/2013

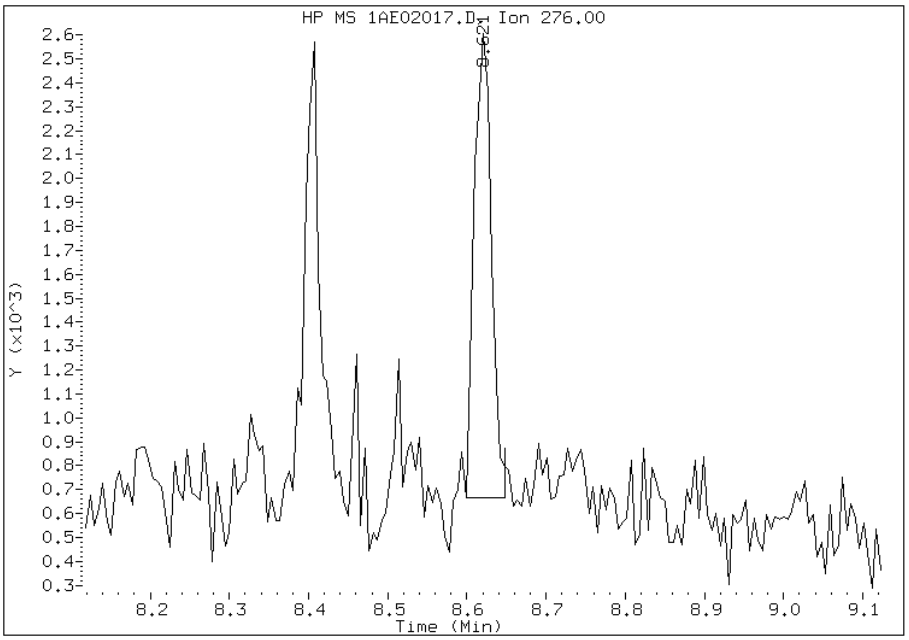
Processing Integration Results

RT: 8.62

Response: 2868

Amount: 0

Conc: 28



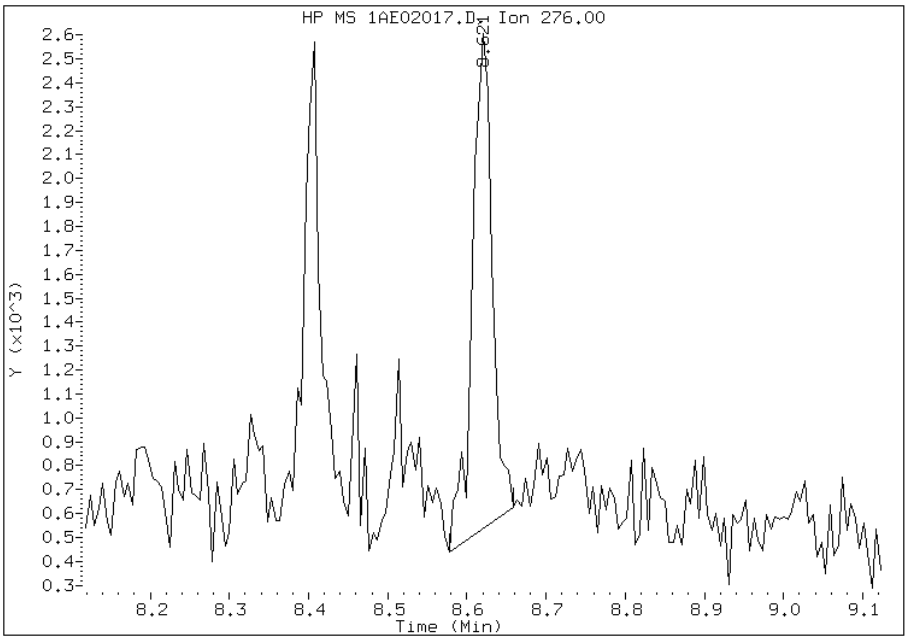
Manual Integration Results

RT: 8.62

Response: 3569

Amount: 0

Conc: 35



Manually Integrated By: cantins
Modification Date: 03-May-2013 10:44
Manual Integration Reason: Baseline Event

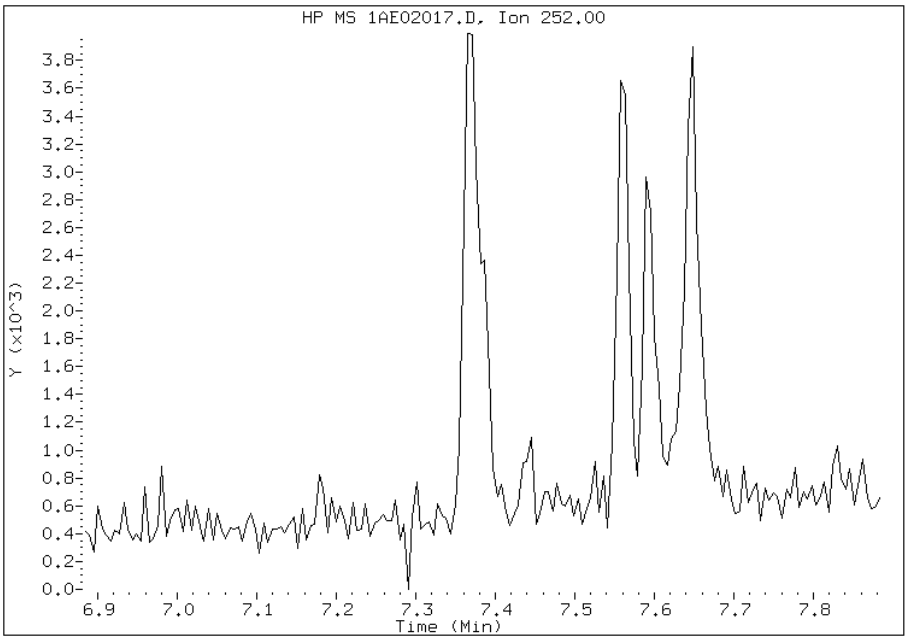
Manual Integration Report

Data File: 1AE02017.D
Inj. Date and Time: 02-MAY-2013 19:12
Instrument ID: BSMA5973.i
Client ID: CV0752C-GS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/03/2013

Processing Integration Results

Not Detected

Expected RT: 7.38



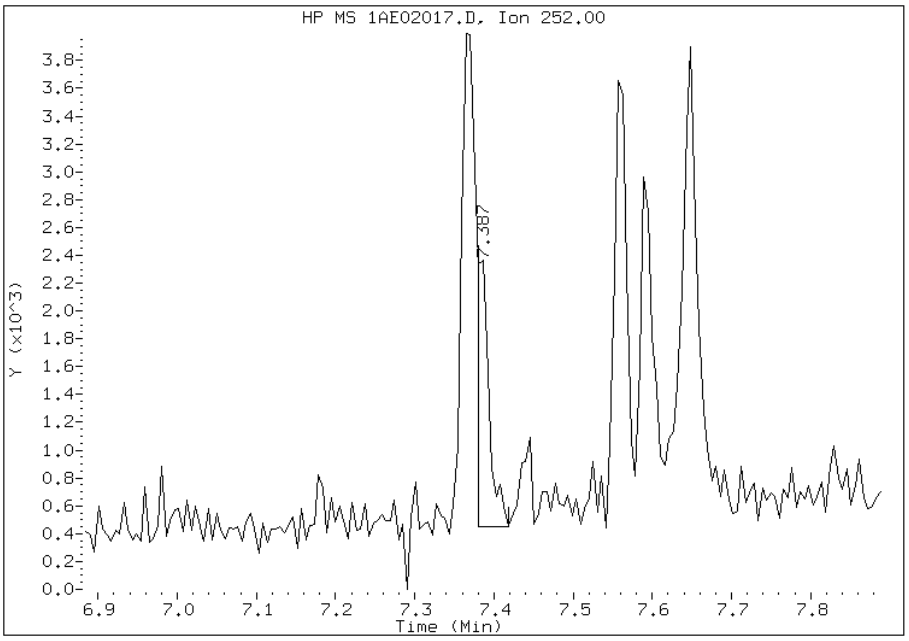
Manual Integration Results

RT: 7.39

Response: 1906

Amount: 0

Conc: 17



Manually Integrated By: cantins
Modification Date: 03-May-2013 10:43
Manual Integration Reason: Analyte not Identified by the Data System

Manual Integration Report

Data File: 1AE02017.D
Inj. Date and Time: 02-MAY-2013 19:12
Instrument ID: BSMA5973.i
Client ID: CV0752C-GS-SP
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 05/03/2013

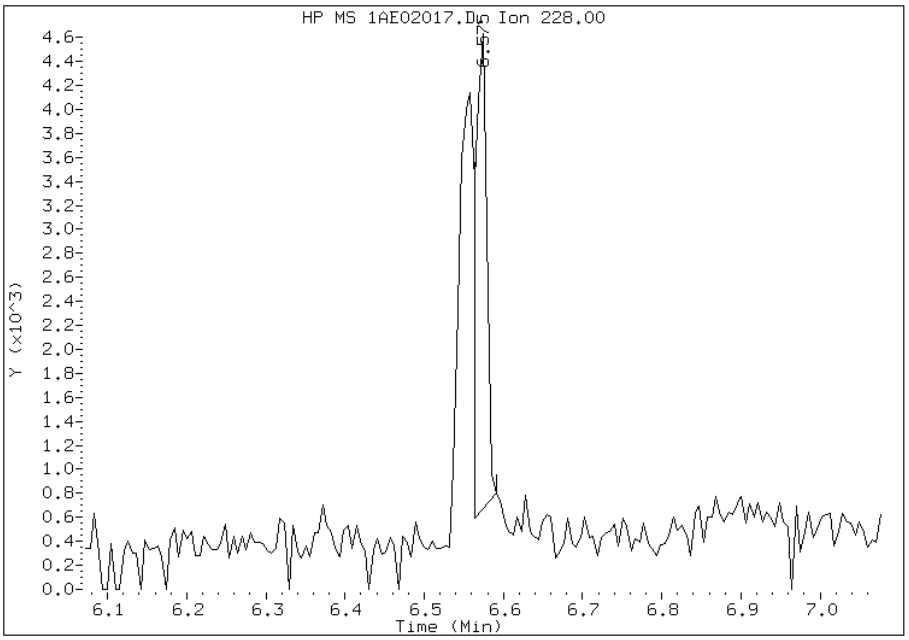
Processing Integration Results

RT: 6.57

Response: 3888

Amount: 0

Conc: 44



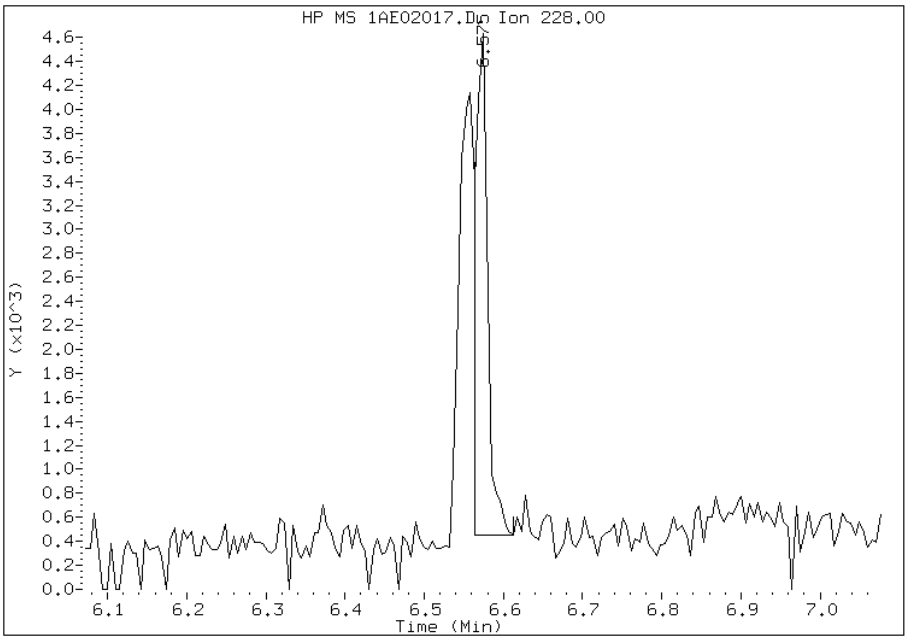
Manual Integration Results

RT: 6.57

Response: 4518

Amount: 0

Conc: 51



Manually Integrated By: cantins
Modification Date: 03-May-2013 10:43
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: CV1312B-CS-SP | Lab Sample ID: 680-89791-24

Matrix: Solid | Lab File ID: 1AE02021.D

Analysis Method: 8270C LL | Date Collected: 04/25/2013 10:01

Extract. Method: 3546 | Date Extracted: 04/30/2013 14:42

Sample wt/vol: 14.96(g) | Date Analyzed: 05/02/2013 20:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 25.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137070 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	21	J	54	6.7
120-12-7	Anthracene	35		11	5.6
56-55-3	Benzo[a]anthracene	130		11	5.2
50-32-8	Benzo[a]pyrene	100		14	7.0
205-99-2	Benzo[b]fluoranthene	170		16	8.2
191-24-2	Benzo[g,h,i]perylene	84		27	5.9
207-08-9	Benzo[k]fluoranthene	68		11	4.8
218-01-9	Chrysene	150		12	6.0
53-70-3	Dibenz(a,h)anthracene	21	J	27	5.5
206-44-0	Fluoranthene	150		27	5.4
86-73-7	Fluorene	8.7	J	27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	73		27	9.5
90-12-0	1-Methylnaphthalene	91		54	5.9
91-57-6	2-Methylnaphthalene	100		54	9.5
91-20-3	Naphthalene	100		54	5.9
85-01-8	Phenanthrene	140		11	5.2
129-00-0	Pyrene	140		27	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	45		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02021.D
Lab Smp Id: 680-89791-A-24-A Client Smp ID: CV1312B-CS-SP
Inj Date : 02-MAY-2013 20:12
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89791-a-24-a
Misc Info : 680-89791-A-24-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\a-bFASTPAHi-m.m
Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 18
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/Ws * 100/(100 - M) * A * B * C * D * GPC * 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	25.172	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.557	2.550	(1.000)	1157570	40.0000	
* 6 Acenaphthene-d10	164	3.588	3.581	(1.000)	636068	40.0000	
* 10 Phenanthrene-d10	188	4.539	4.532	(1.000)	853130	40.0000	
$ 14 o-Terphenyl	230	4.838	4.831	(1.066)	63409	4.54409	405.9283
* 18 Chrysene-d12	240	6.564	6.551	(1.000)	758691	40.0000	
* 23 Perylene-d12	264	7.654	7.641	(1.000)	895201	40.0000	
2 Naphthalene	128	2.568	2.560	(1.004)	33914	1.17200	104.6958
3 2-Methylnaphthalene	141	2.974	2.972	(1.163)	19422	1.17069	104.5792
4 1-Methylnaphthalene	142	3.027	3.025	(1.184)	18778	1.02163	91.2627
5 Acenaphthylene	152	3.498	3.490	(0.975)	8807	0.23692	21.1639
9 Fluorene	166	3.920	3.912	(1.092)	2275	0.09699	8.6646(Q)
11 Phenanthrene	178	4.550	4.548	(1.002)	39034	1.57946	141.0949
12 Anthracene	178	4.587	4.580	(1.011)	9990	0.38877	34.7288
13 Carbazole	167	4.721	4.713	(1.040)	6265	0.25273	22.5765

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	5.421	5.413	(1.194)	47318	1.65769	148.0827
16 Pyrene	202	5.586	5.579	(0.851)	45053	1.55653	139.0459
17 Benzo(a)anthracene	228	6.559	6.540	(0.999)	37406	1.50973	134.8656
19 Chrysene	228	6.580	6.572	(1.002)	41526	1.65203	147.5772
20 Benzo(b)fluoranthene	252	7.376	7.363	(0.964)	51391	1.89092	168.9177(M)
21 Benzo(k)fluoranthene	252	7.387	7.384	(0.965)	23708	0.75871	67.7767(QM)
22 Benzo(a)pyrene	252	7.600	7.593	(0.993)	31295	1.15749	103.3998
24 Indeno(1,2,3-cd)pyrene	276	8.418	8.405	(1.100)	20990	0.82222	73.4497(M)
25 Dibenzo(a,h)anthracene	278	8.439	8.431	(1.103)	5478	0.23062	20.6018
26 Benzo(g,h,i)perylene	276	8.637	8.624	(1.128)	26739	0.93587	83.6023

QC Flag Legend

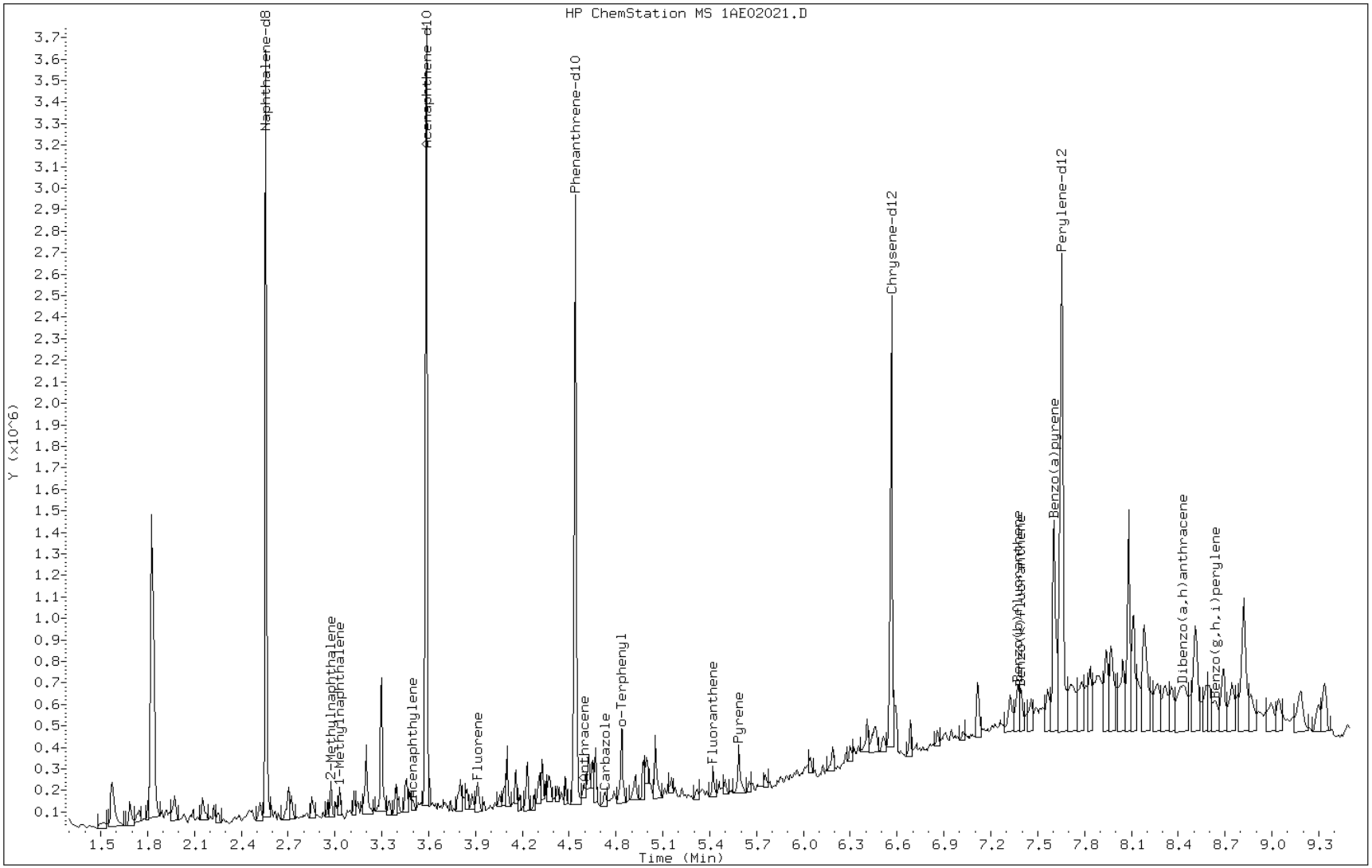
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE02021.D

Date: 02-MAY-2013 20:12

Client ID: CV1312B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-24-a Operator: SCC



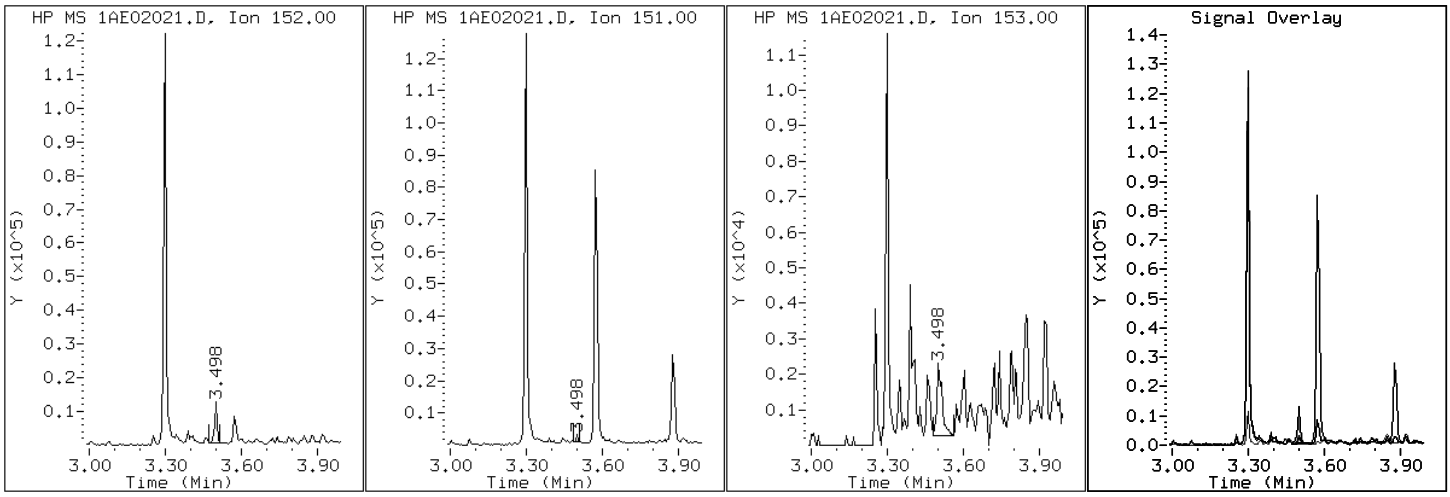
Data File: 1AE02021.D

Date: 02-MAY-2013 20:12

Client ID: CV1312B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-24-a Operator: SCC

5 Acenaphthylene



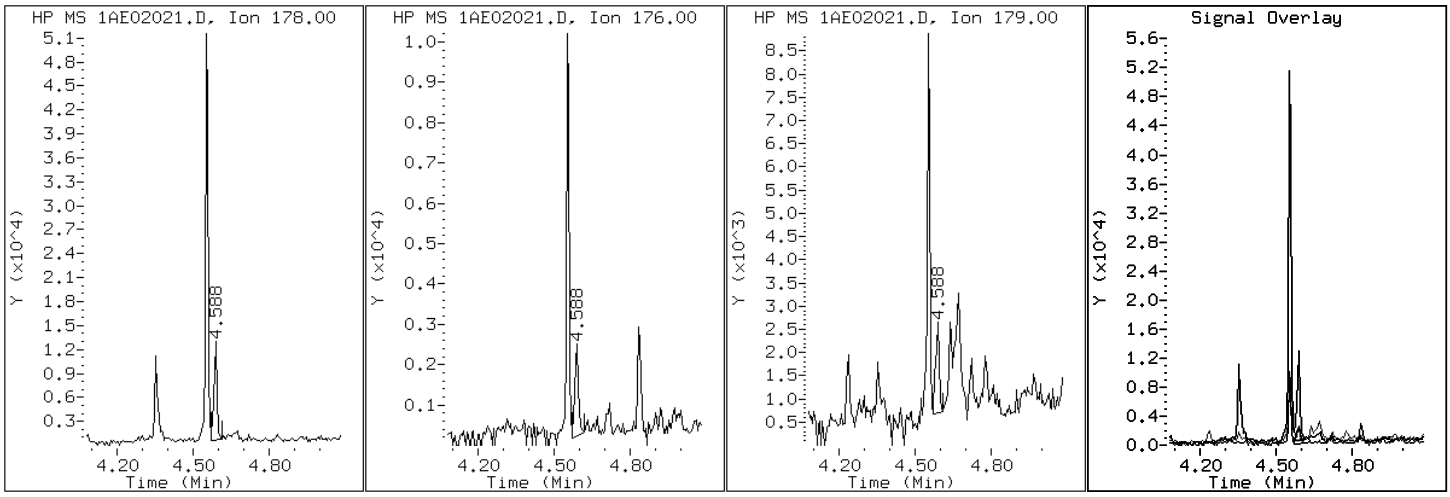
Data File: 1AE02021.D

Date: 02-MAY-2013 20:12

Client ID: CV1312B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-24-a Operator: SCC

12 Anthracene



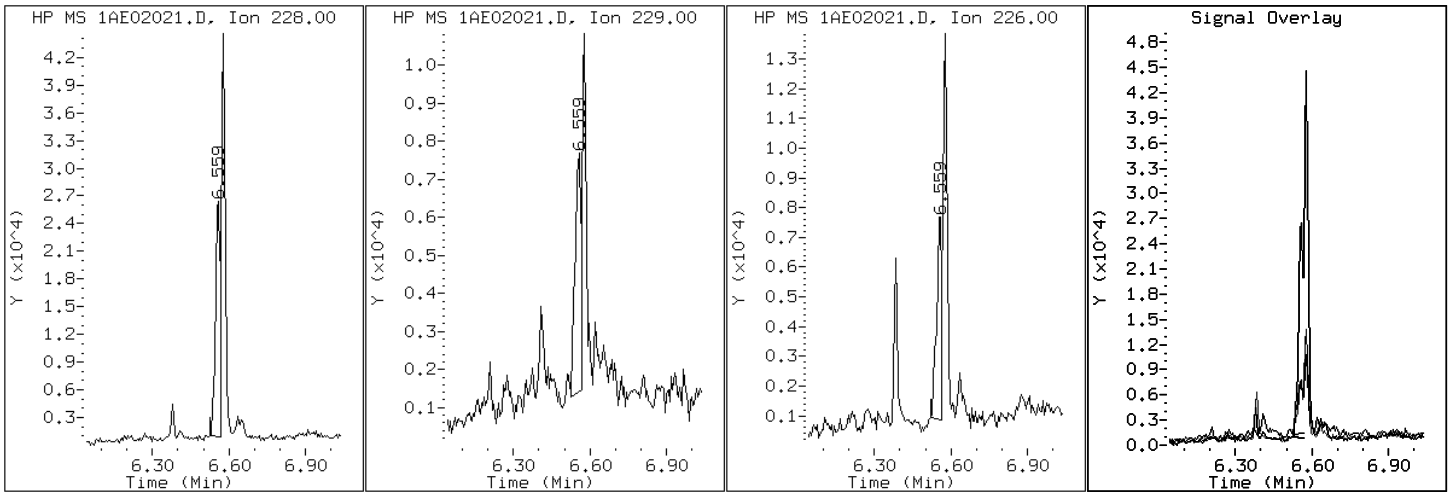
Data File: 1AE02021.D

Date: 02-MAY-2013 20:12

Client ID: CV1312B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-24-a Operator: SCC

17 Benzo(a)anthracene



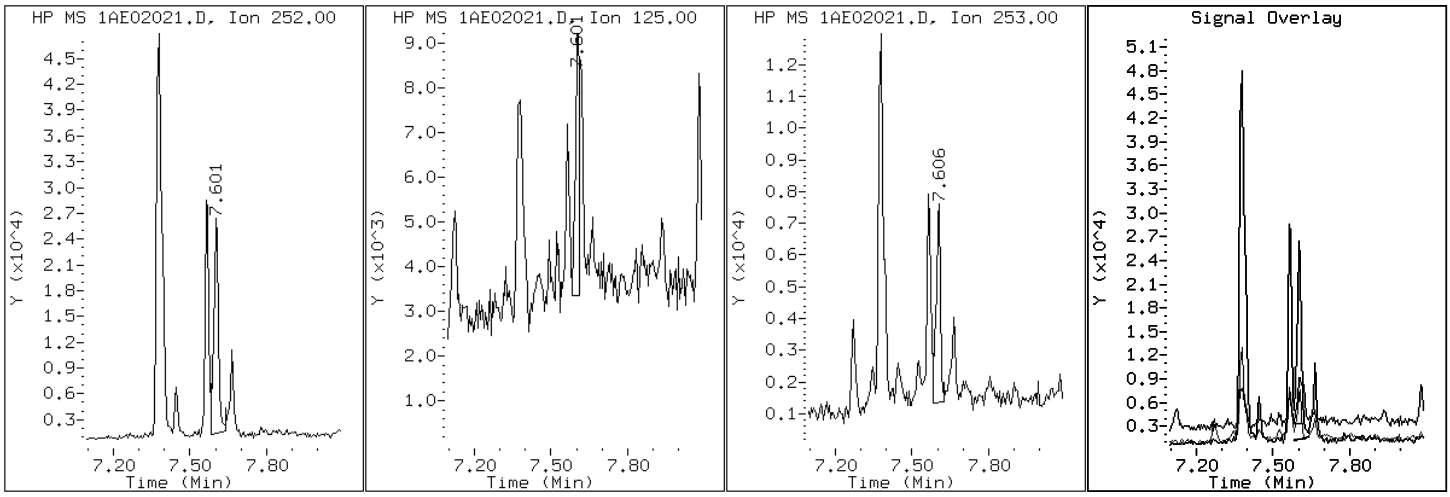
Data File: 1AE02021.D

Date: 02-MAY-2013 20:12

Client ID: CV1312B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-24-a Operator: SCC

22 Benzo(a)pyrene



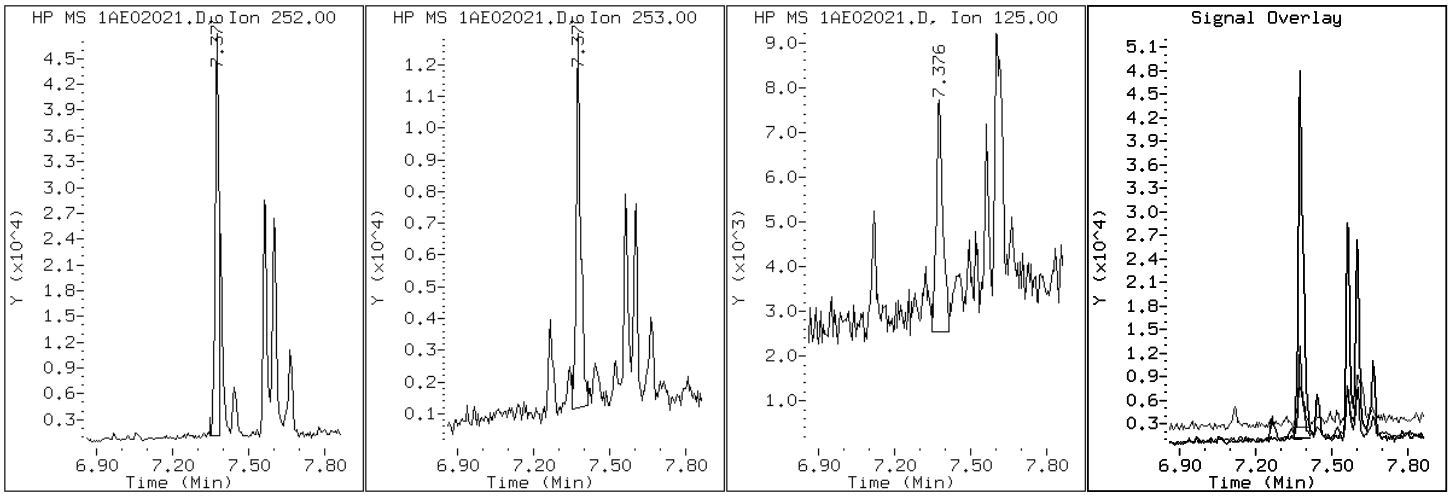
Data File: 1AE02021.D

Date: 02-MAY-2013 20:12

Client ID: CV1312B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-24-a Operator: SCC

20 Benzo(b)fluoranthene



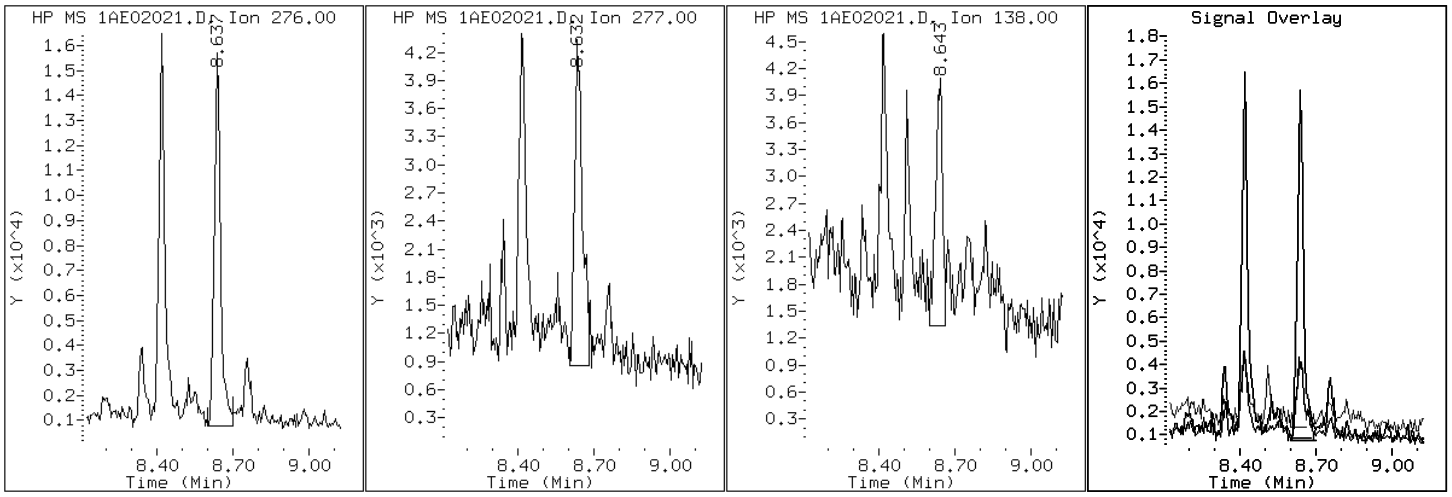
Data File: 1AE02021.D

Date: 02-MAY-2013 20:12

Client ID: CV1312B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-24-a Operator: SCC

26 Benzo(g,h,i)perylene



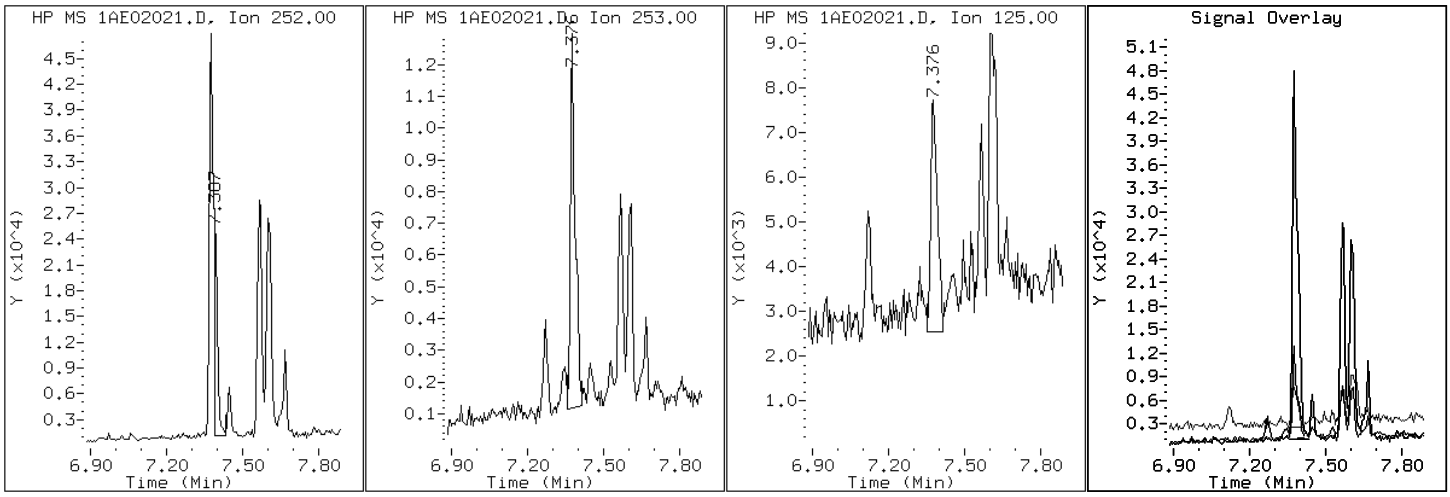
Data File: 1AE02021.D

Date: 02-MAY-2013 20:12

Client ID: CV1312B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-24-a Operator: SCC

21 Benzo(k)fluoranthene



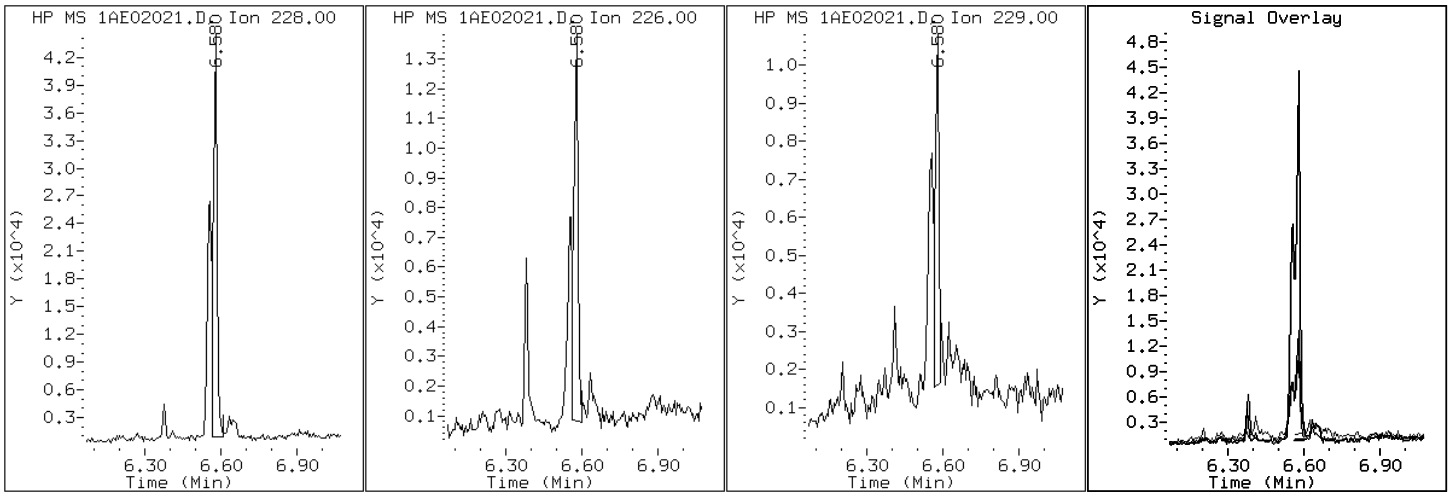
Data File: 1AE02021.D

Date: 02-MAY-2013 20:12

Client ID: CV1312B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-24-a Operator: SCC

19 Chrysene



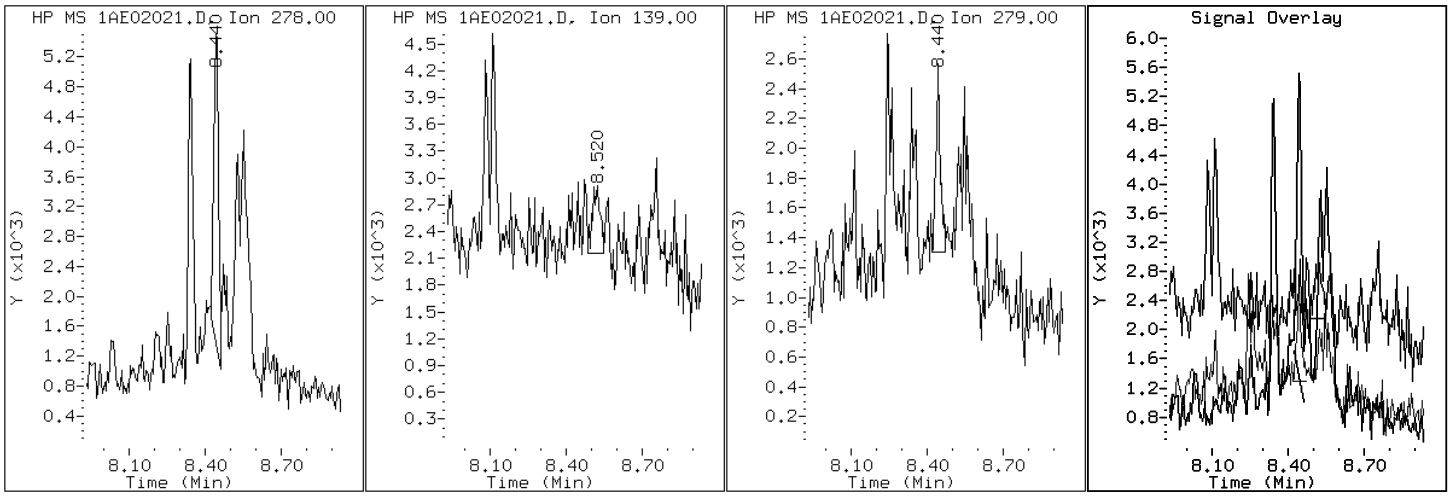
Data File: 1AE02021.D

Date: 02-MAY-2013 20:12

Client ID: CV1312B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-24-a Operator: SCC

25 Dibenzo(a,h)anthracene



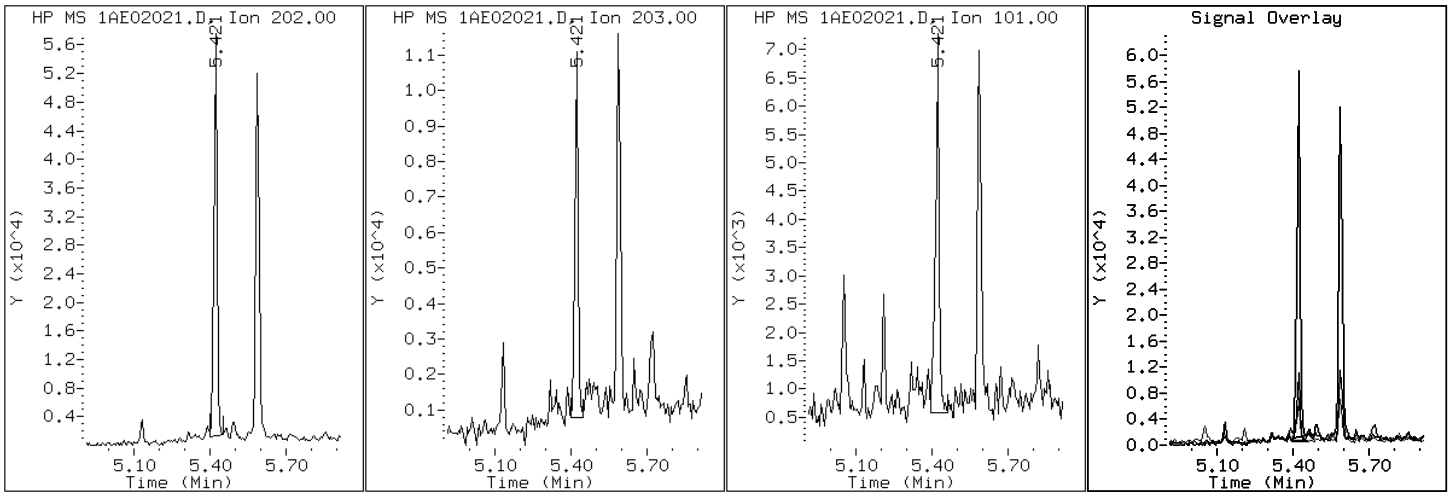
Data File: 1AE02021.D

Date: 02-MAY-2013 20:12

Client ID: CV1312B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-24-a Operator: SCC

15 Fluoranthene



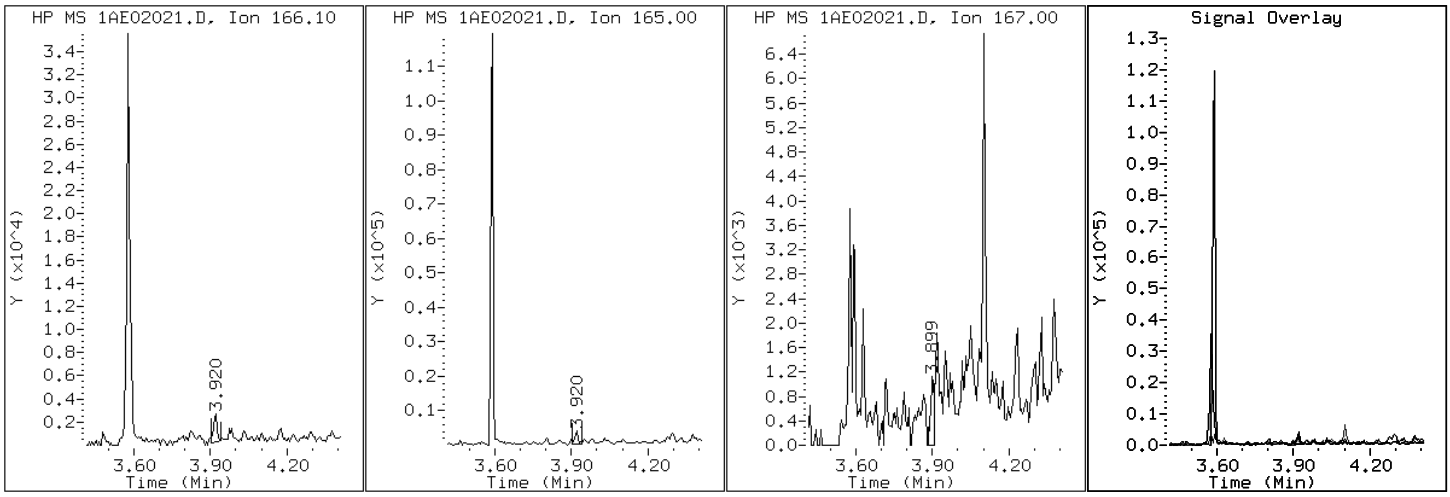
Data File: 1AE02021.D

Date: 02-MAY-2013 20:12

Client ID: CV1312B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-24-a Operator: SCC

9 Fluorene



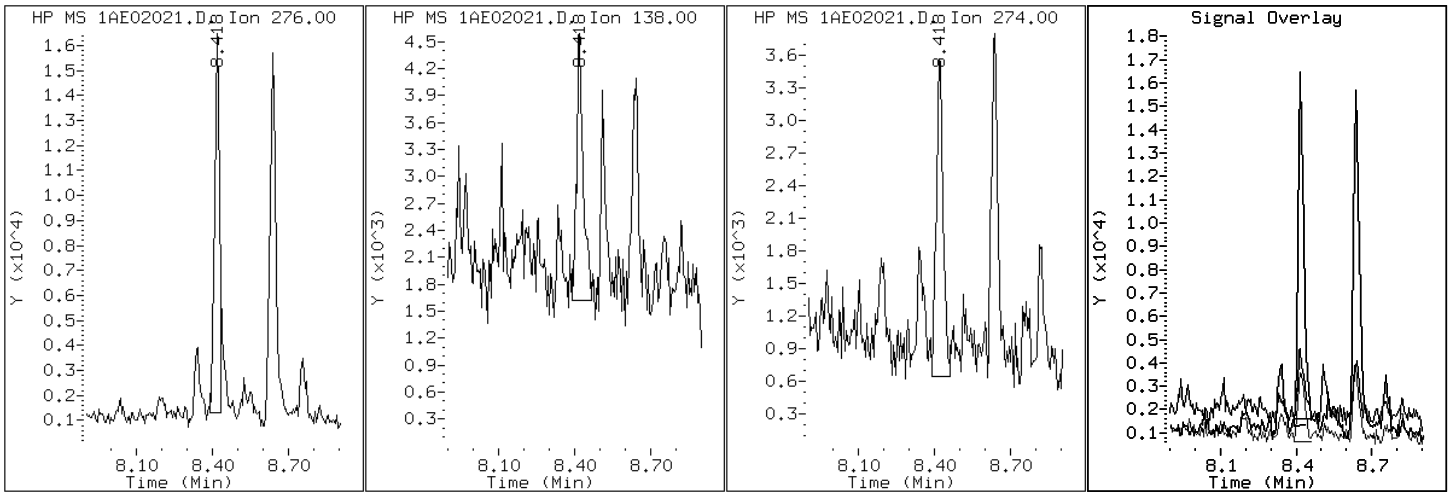
Data File: 1AE02021.D

Date: 02-MAY-2013 20:12

Client ID: CV1312B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-24-a Operator: SCC

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



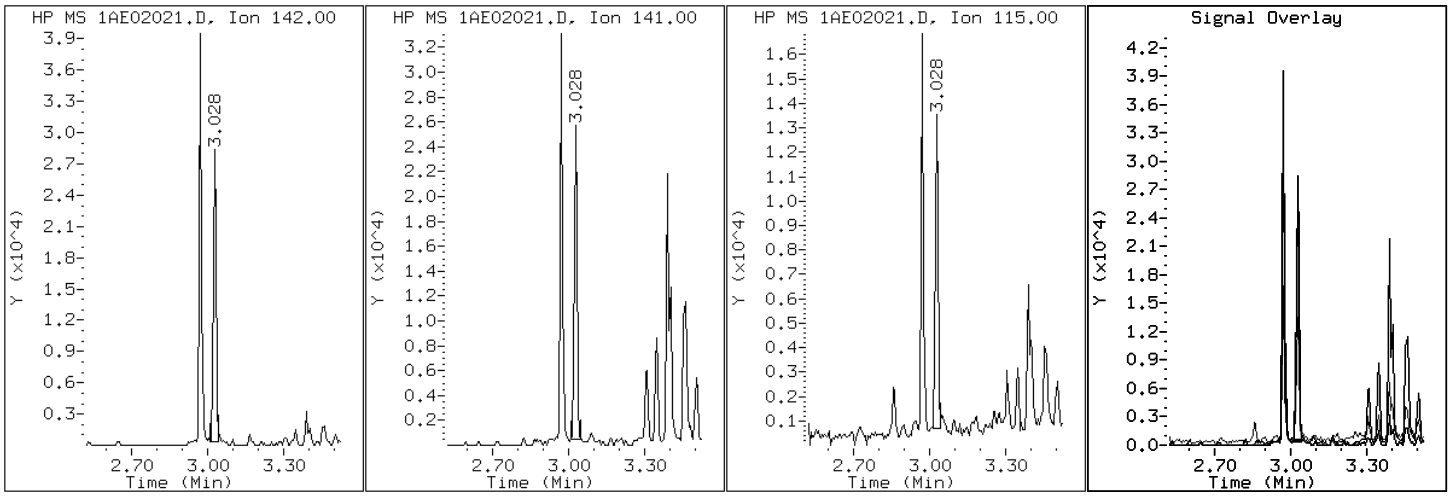
Data File: 1AE02021.D

Date: 02-MAY-2013 20:12

Client ID: CV1312B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-24-a Operator: SCC

4 1-Methylnaphthalene



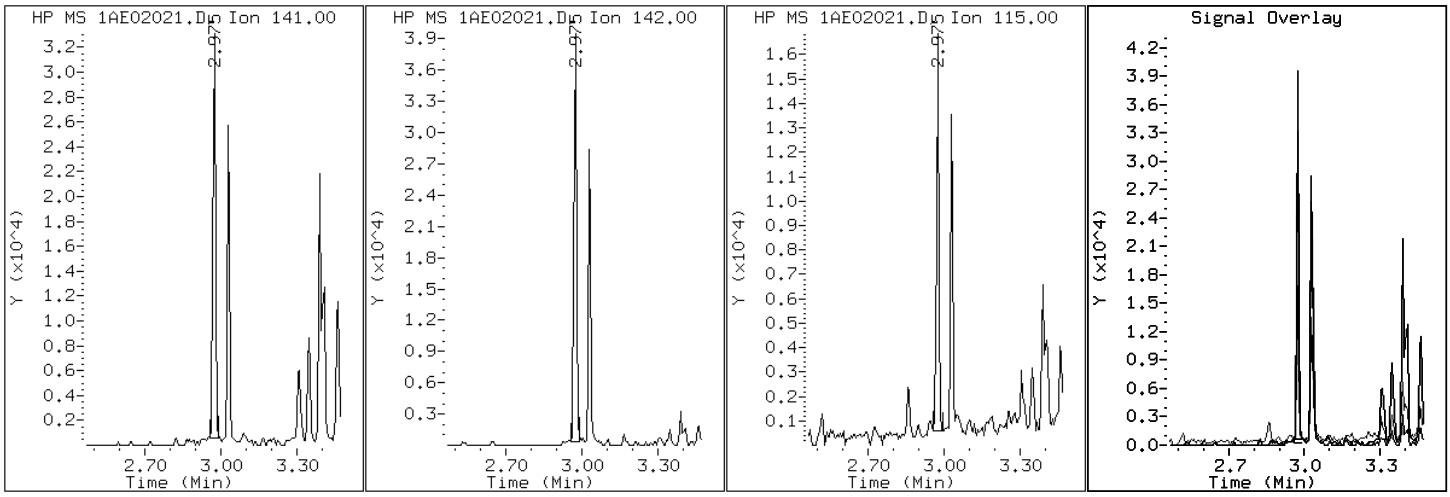
Data File: 1AE02021.D

Date: 02-MAY-2013 20:12

Client ID: CV1312B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-24-a Operator: SCC

3 2-Methylnaphthalene



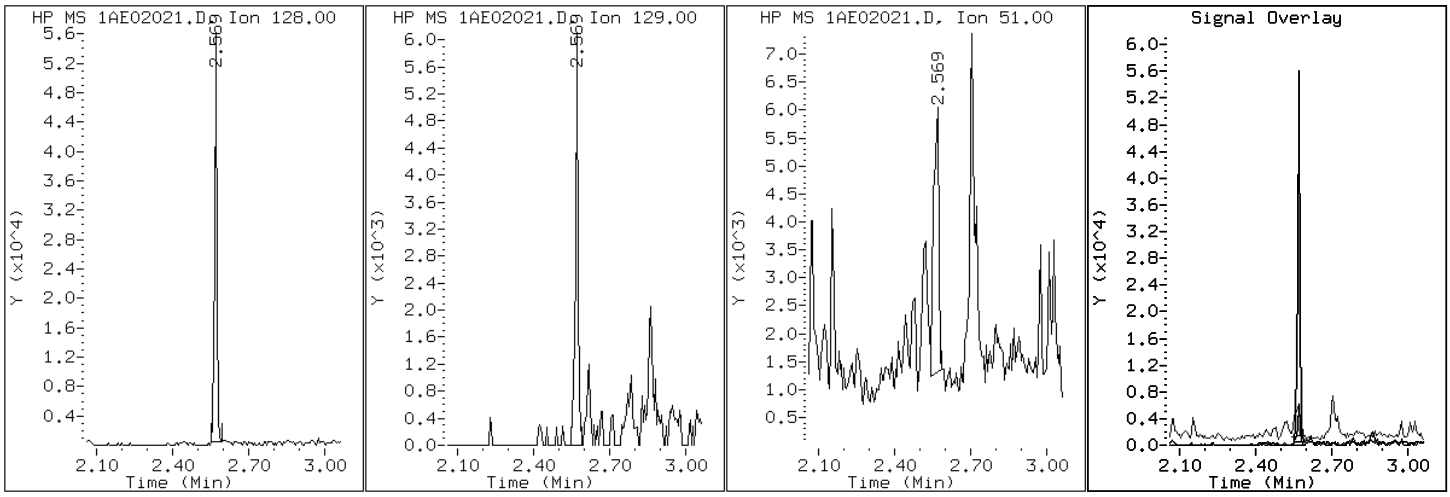
Data File: 1AE02021.D

Date: 02-MAY-2013 20:12

Client ID: CV1312B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-24-a Operator: SCC

2 Naphthalene



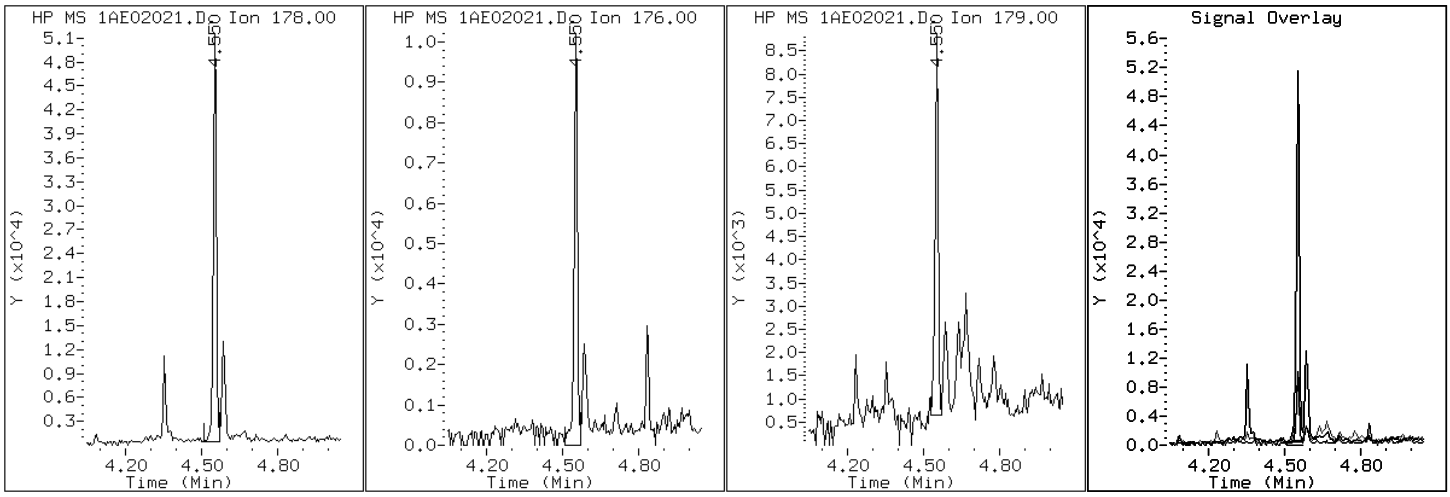
Data File: 1AE02021.D

Date: 02-MAY-2013 20:12

Client ID: CV1312B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-24-a Operator: SCC

11 Phenanthrene



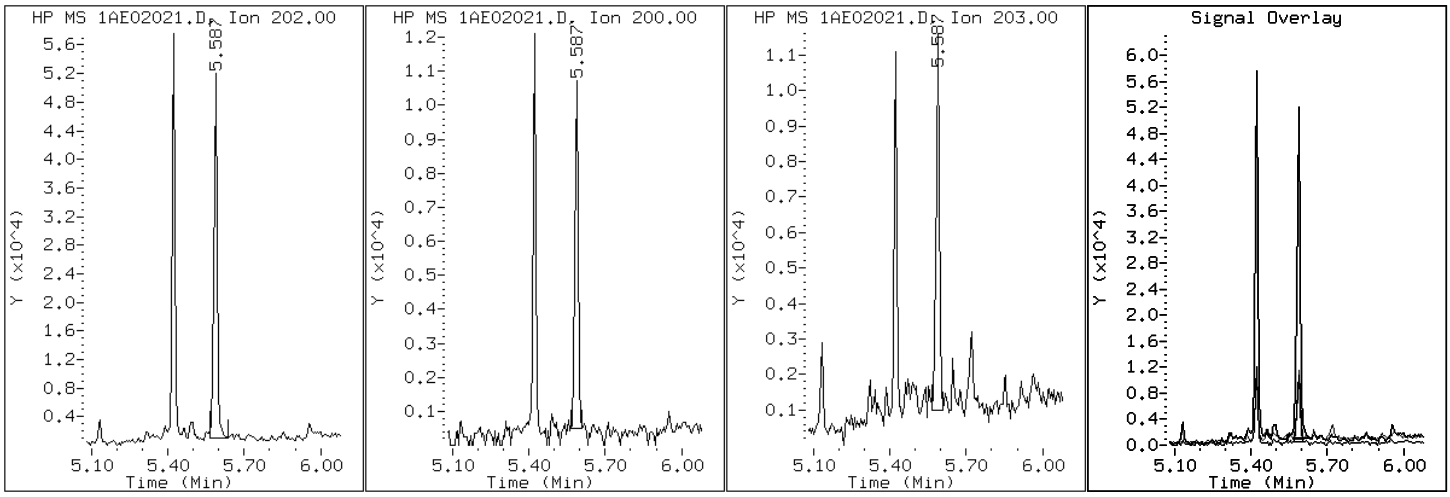
Data File: 1AE02021.D

Date: 02-MAY-2013 20:12

Client ID: CV1312B-CS-SP Instrument: BSMA5973.i

Sample Info: 680-89791-a-24-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE02021.D
Inj. Date and Time: 02-MAY-2013 20:12
Instrument ID: BSMA5973.i
Client ID: CV1312B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/03/2013

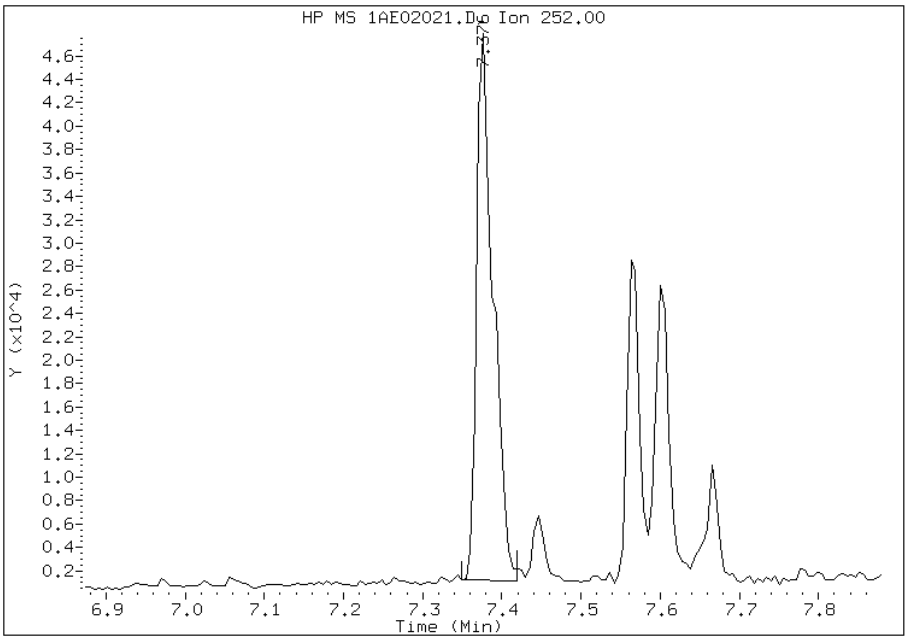
Processing Integration Results

RT: 7.38

Response: 66805

Amount: 2

Conc: 220



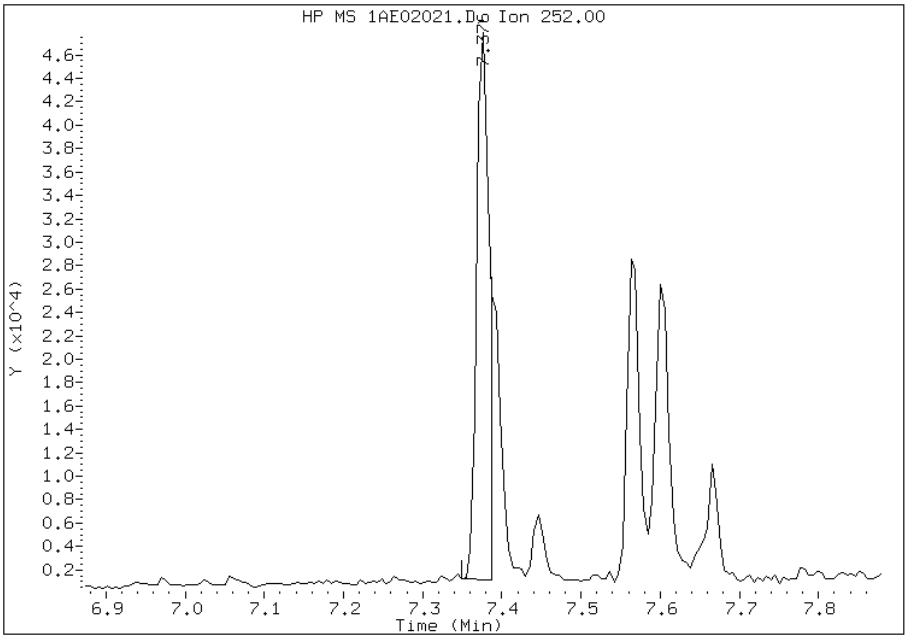
Manual Integration Results

RT: 7.38

Response: 51391

Amount: 2

Conc: 169



Manually Integrated By: cantins
Modification Date: 03-May-2013 10:50
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE02021.D
Inj. Date and Time: 02-MAY-2013 20:12
Instrument ID: BSMA5973.i
Client ID: CV1312B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/03/2013

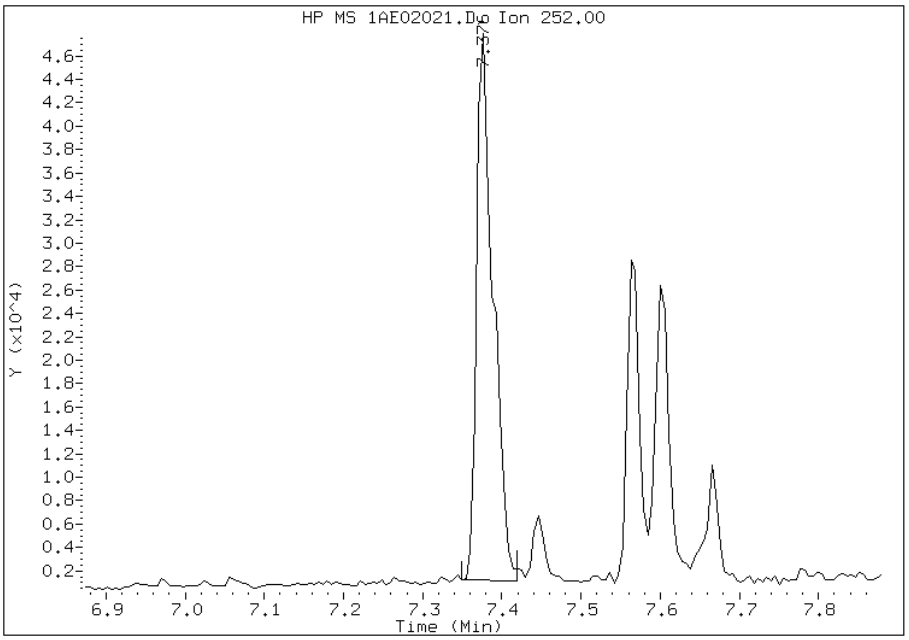
Processing Integration Results

RT: 7.38

Response: 66805

Amount: 2

Conc: 191



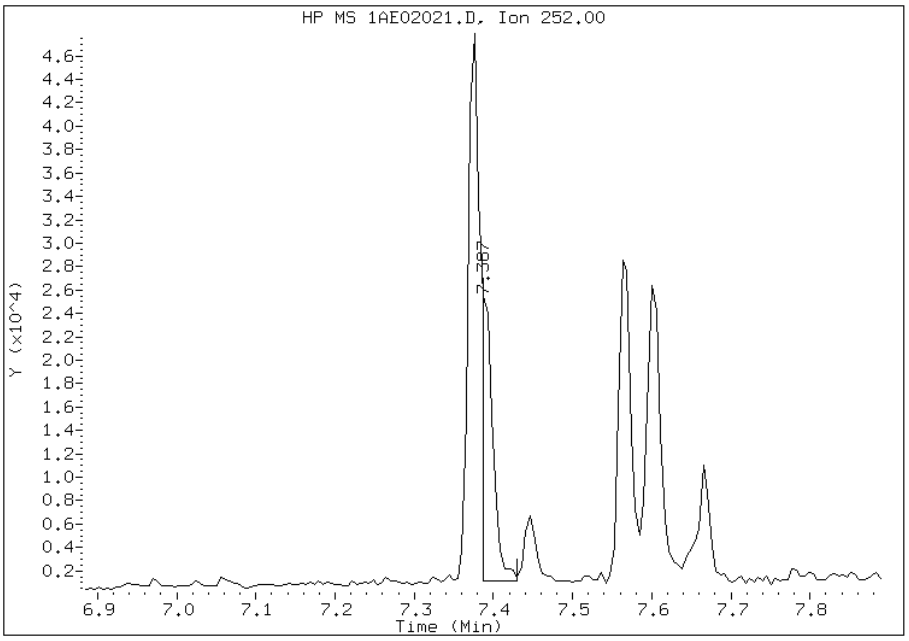
Manual Integration Results

RT: 7.39

Response: 23708

Amount: 1

Conc: 68



Manually Integrated By: cantins
Modification Date: 03-May-2013 10:50
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE02021.D
Inj. Date and Time: 02-MAY-2013 20:12
Instrument ID: BSMA5973.i
Client ID: CV1312B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/03/2013

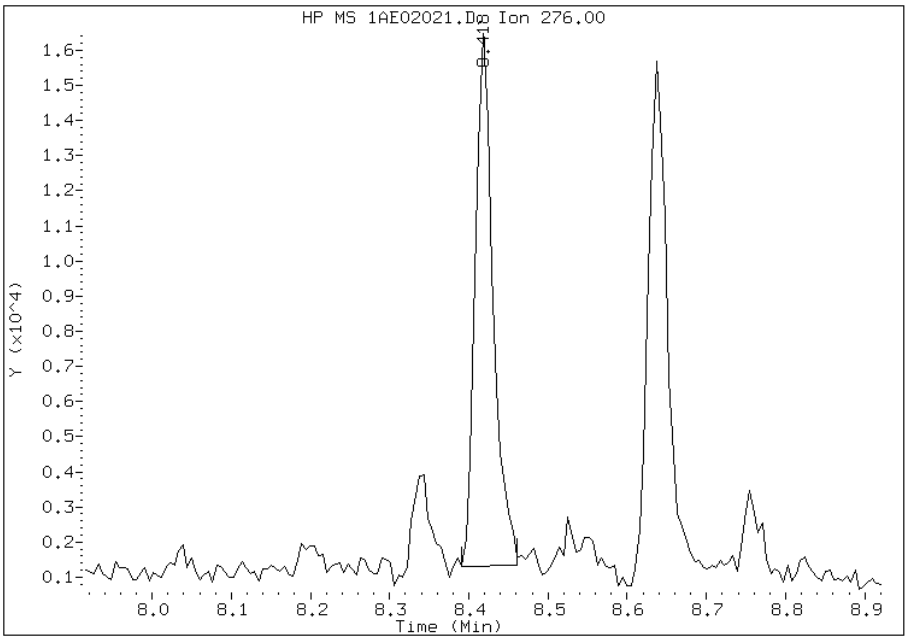
Processing Integration Results

RT: 8.42

Response: 23597

Amount: 1

Conc: 83



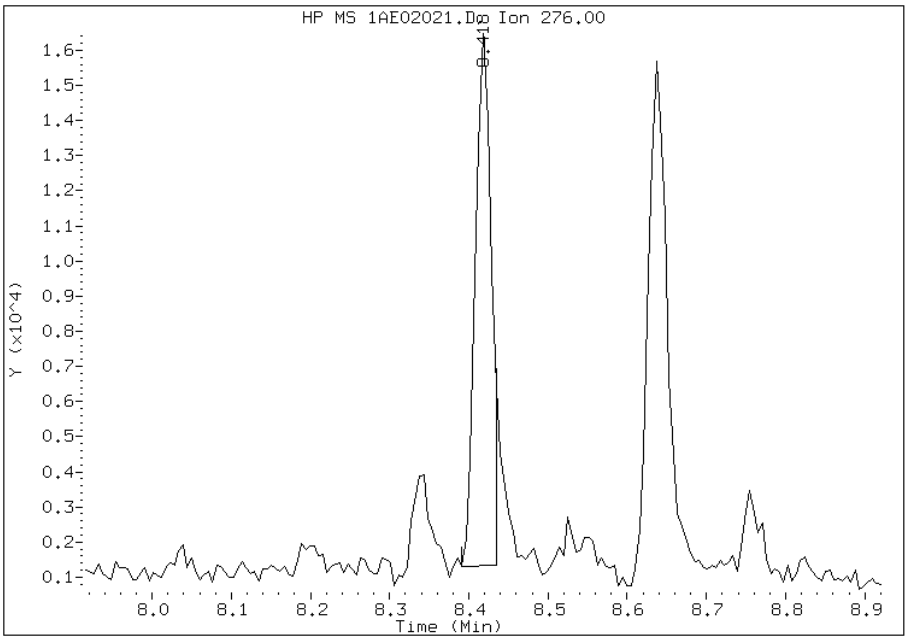
Manual Integration Results

RT: 8.42

Response: 20990

Amount: 1

Conc: 73



Manually Integrated By: cantins
Modification Date: 03-May-2013 10:50
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: CV1220A-CS | Lab Sample ID: 680-89791-25

Matrix: Solid | Lab File ID: 1AE02022.D

Analysis Method: 8270C LL | Date Collected: 04/25/2013 09:30

Extract. Method: 3546 | Date Extracted: 04/30/2013 14:42

Sample wt/vol: 14.89(g) | Date Analyzed: 05/02/2013 20:27

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 24.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137070 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	87	J	130	27
208-96-8	Acenaphthylene	33	J	53	6.7
120-12-7	Anthracene	220		11	5.6
56-55-3	Benzo[a]anthracene	1800		11	5.2
50-32-8	Benzo[a]pyrene	2300		14	6.9
205-99-2	Benzo[b]fluoranthene	4300		16	8.1
191-24-2	Benzo[g,h,i]perylene	1900		27	5.9
207-08-9	Benzo[k]fluoranthene	1200		11	4.8
218-01-9	Chrysene	2100		12	6.0
53-70-3	Dibenz(a,h)anthracene	950		27	5.5
206-44-0	Fluoranthene	1700		27	5.3
86-73-7	Fluorene	88		27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	1800		27	9.5
90-12-0	1-Methylnaphthalene	380		53	5.9
91-57-6	2-Methylnaphthalene	450		53	9.5
91-20-3	Naphthalene	300		53	5.9
85-01-8	Phenanthrene	1200		11	5.2
129-00-0	Pyrene	1400		27	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	45		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02022.D
Lab Smp Id: 680-89791-A-25-A Client Smp ID: CV1220A-CS
Inj Date : 02-MAY-2013 20:27
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89791-a-25-a
Misc Info : 680-89791-A-25-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\a-bFASTPAHi-m.m
Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 19
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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.890	Weight Extracted
M	24.359	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.555	2.550	(1.000)	1172234	40.0000	
*	6 Acenaphthene-d10	164	3.586	3.581	(1.000)	581620	40.0000	
*	10 Phenanthrene-d10	188	4.542	4.532	(1.000)	832876	40.0000	
$	14 o-Terphenyl	230	4.836	4.831	(1.065)	61211	4.49325	398.9409
*	18 Chrysene-d12	240	6.572	6.551	(1.000)	805412	40.0000	
*	23 Perylene-d12	264	7.673	7.641	(1.000)	1003223	40.0000	
	2 Naphthalene	128	2.566	2.560	(1.004)	98412	3.35838	298.1791
	3 2-Methylnaphthalene	141	2.977	2.972	(1.165)	85044	5.06205	449.4425
	4 1-Methylnaphthalene	142	3.030	3.025	(1.186)	79199	4.25495	377.7832
	5 Acenaphthylene	152	3.500	3.490	(0.976)	12819	0.37712	33.4835
	7 Acenaphthene	154	3.602	3.597	(1.004)	17535	0.98368	87.3373
	9 Fluorene	166	3.917	3.912	(1.092)	21219	0.98937	87.8424
	11 Phenanthrene	178	4.558	4.548	(1.004)	335413	13.9021	1234.3232
	12 Anthracene	178	4.590	4.580	(1.011)	63062	2.51377	223.1892

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.729	4.713	(1.041)	39406	1.62829	144.5701
15 Fluoranthene	202	5.429	5.413	(1.195)	540742	19.4044	1722.8549
16 Pyrene	202	5.595	5.579	(0.851)	489860	15.9423	1415.4650
17 Benzo(a)anthracene	228	6.567	6.540	(0.999)	520876	19.8034	1758.2755
19 Chrysene	228	6.588	6.572	(1.002)	634053	23.7613	2109.6845
20 Benzo(b)fluoranthene	252	7.400	7.363	(0.964)	1464073	48.0698	4267.9558(M)
21 Benzo(k)fluoranthene	252	7.411	7.384	(0.966)	479336	13.6882	1215.3312(QM)
22 Benzo(a)pyrene	252	7.625	7.593	(0.994)	789254	26.0485	2312.7612
24 Indeno(1,2,3-cd)pyrene	276	8.463	8.405	(1.103)	593303	20.7384	1841.2938(M)
25 Dibenzo(a,h)anthracene	278	8.474	8.431	(1.104)	284291	10.6799	948.2360
26 Benzo(g,h,i)perylene	276	8.688	8.624	(1.132)	679837	21.2324	1885.1558

QC Flag Legend

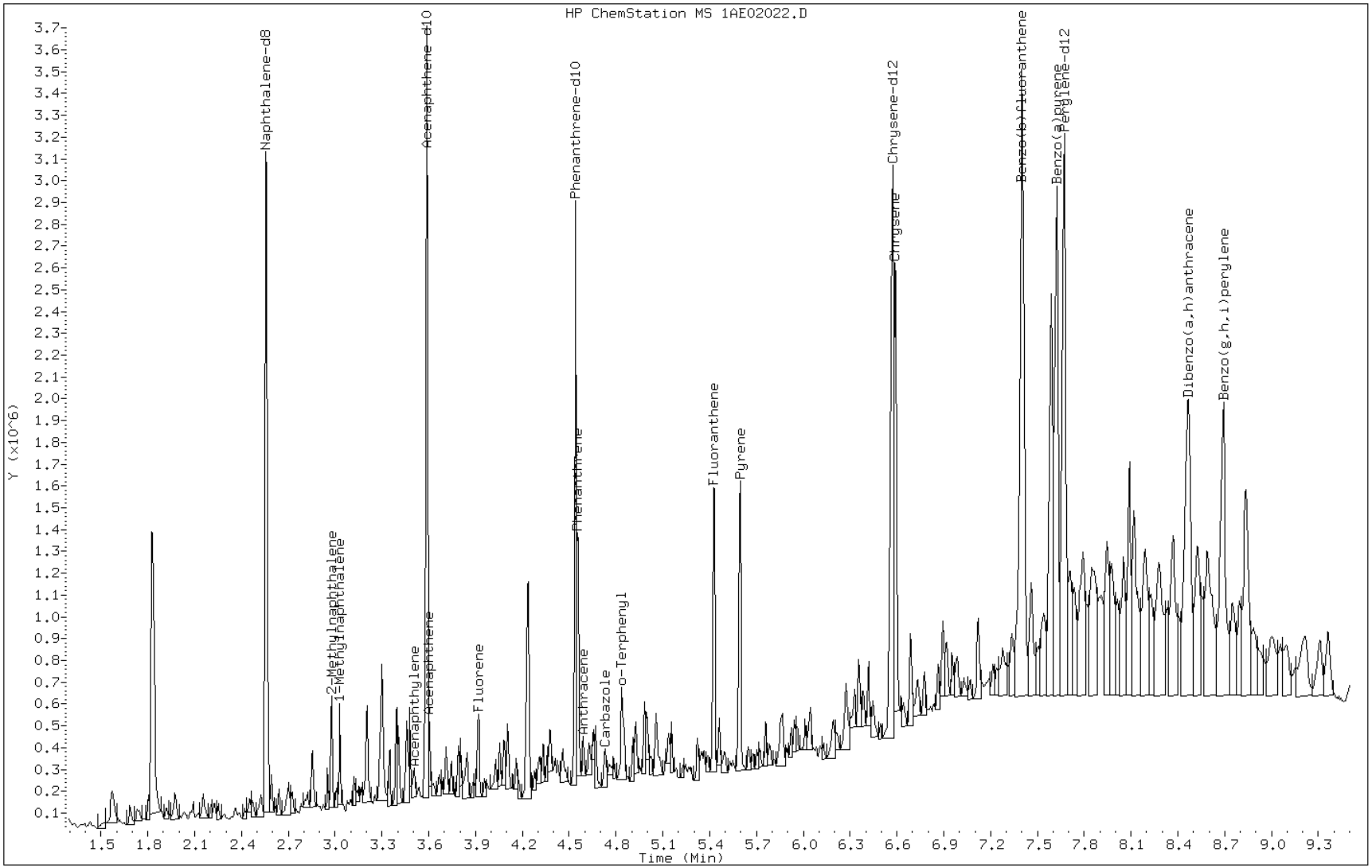
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE02022.D

Date: 02-MAY-2013 20:27

Client ID: CV1220A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-25-a Operator: SCC



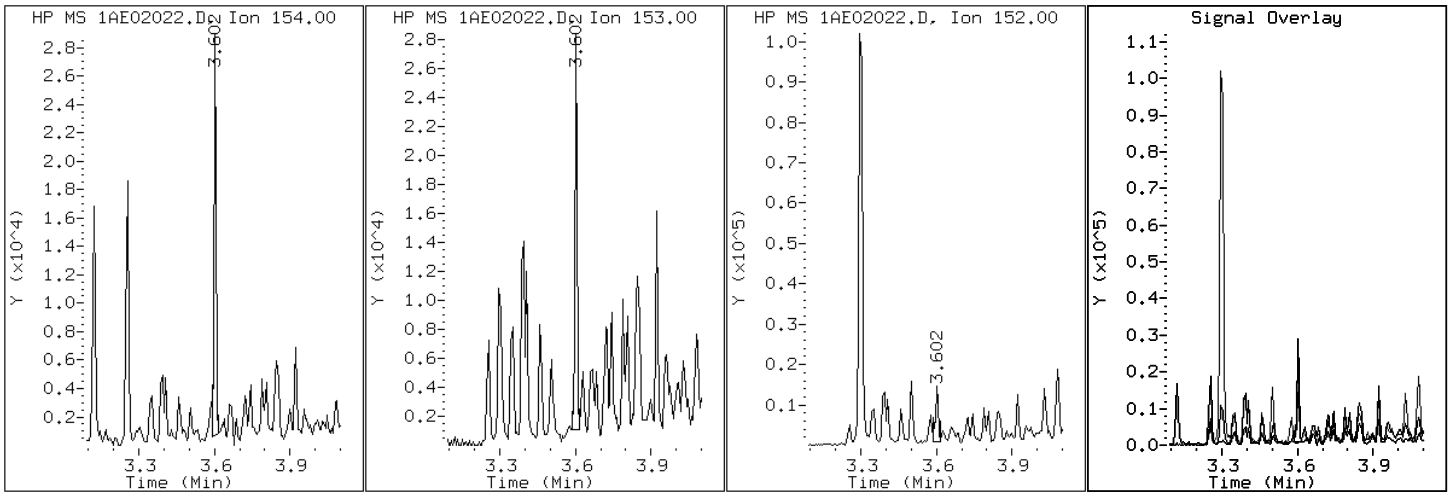
Data File: 1AE02022.D

Date: 02-MAY-2013 20:27

Client ID: CV1220A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-25-a Operator: SCC

7 Acenaphthene



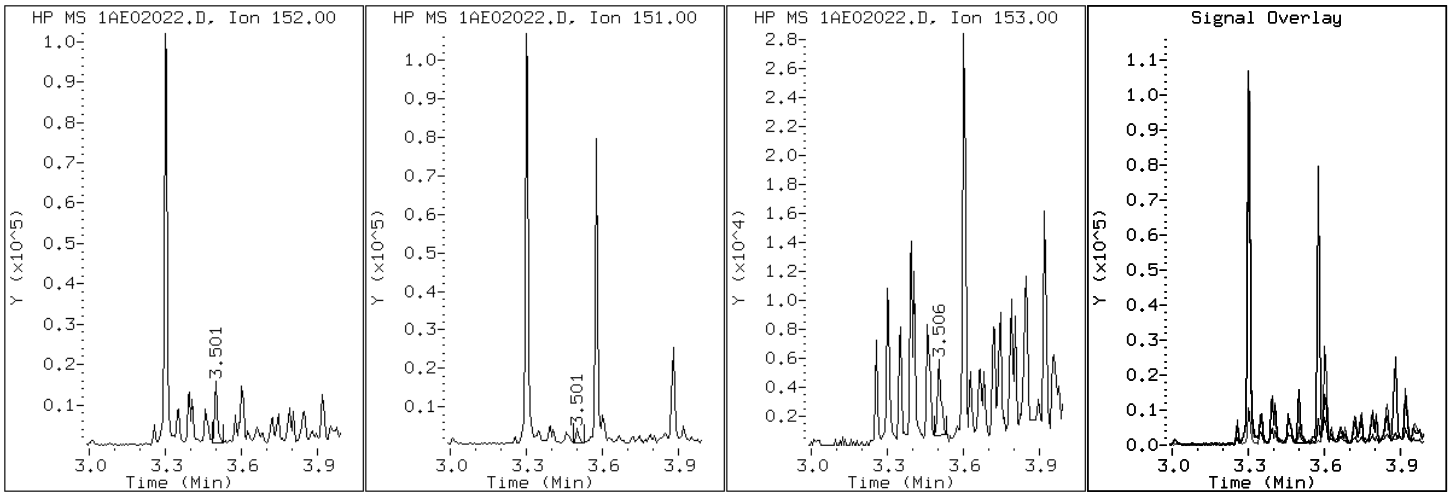
Data File: 1AE02022.D

Date: 02-MAY-2013 20:27

Client ID: CV1220A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-25-a Operator: SCC

5 Acenaphthylene



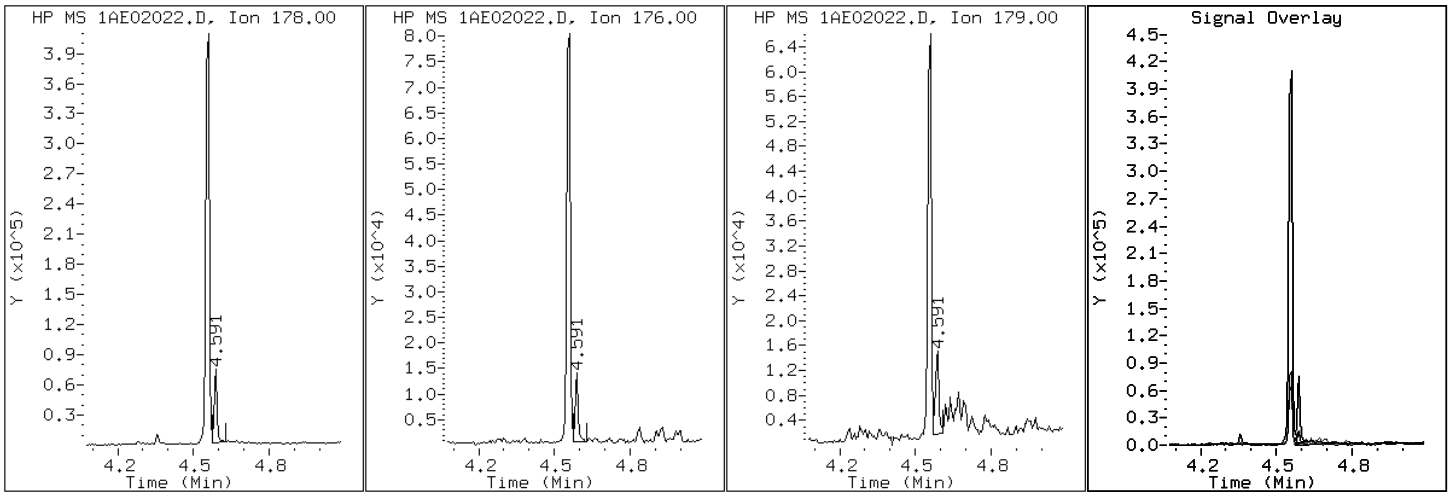
Data File: 1AE02022.D

Date: 02-MAY-2013 20:27

Client ID: CV1220A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-25-a Operator: SCC

12 Anthracene



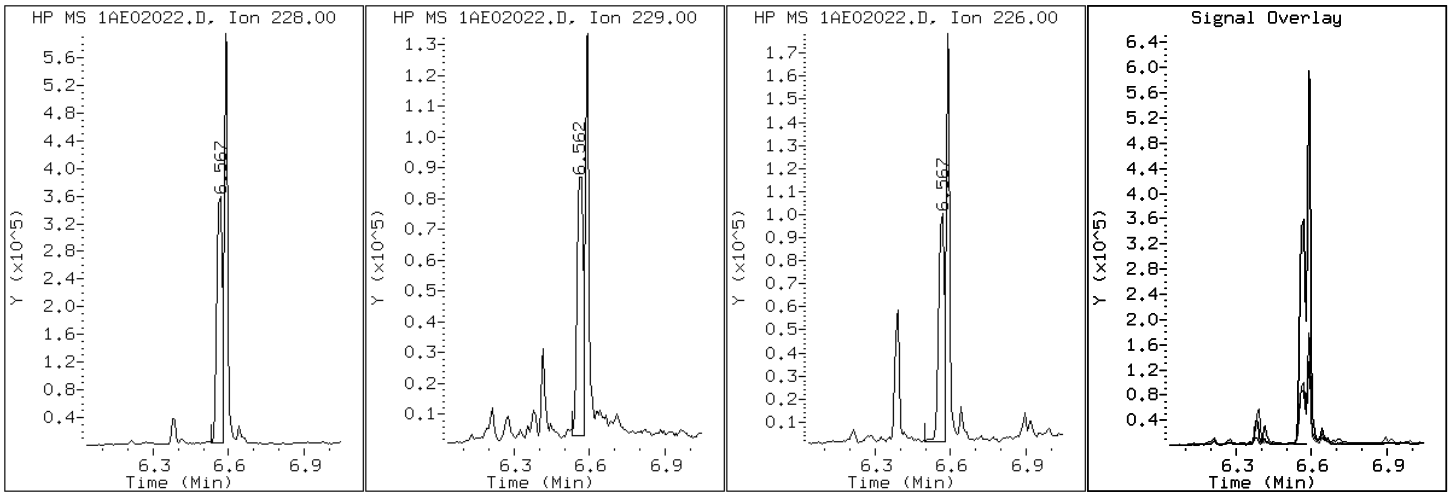
Data File: 1AE02022.D

Date: 02-MAY-2013 20:27

Client ID: CV1220A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-25-a Operator: SCC

17 Benzo(a)anthracene



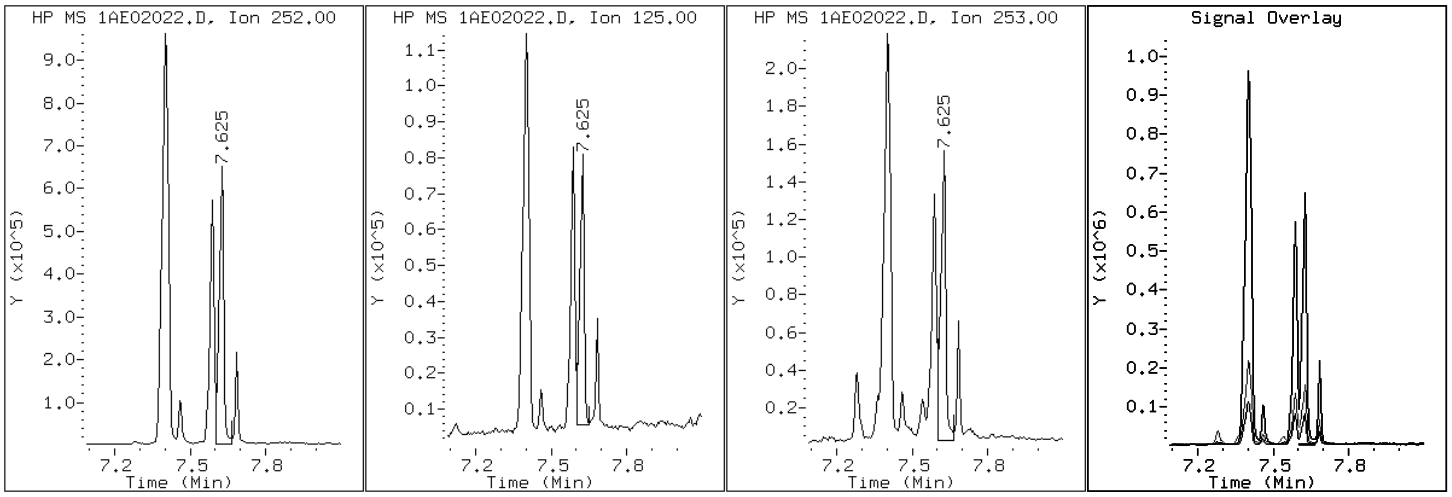
Data File: 1AE02022.D

Date: 02-MAY-2013 20:27

Client ID: CV1220A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-25-a Operator: SCC

22 Benzo(a)pyrene



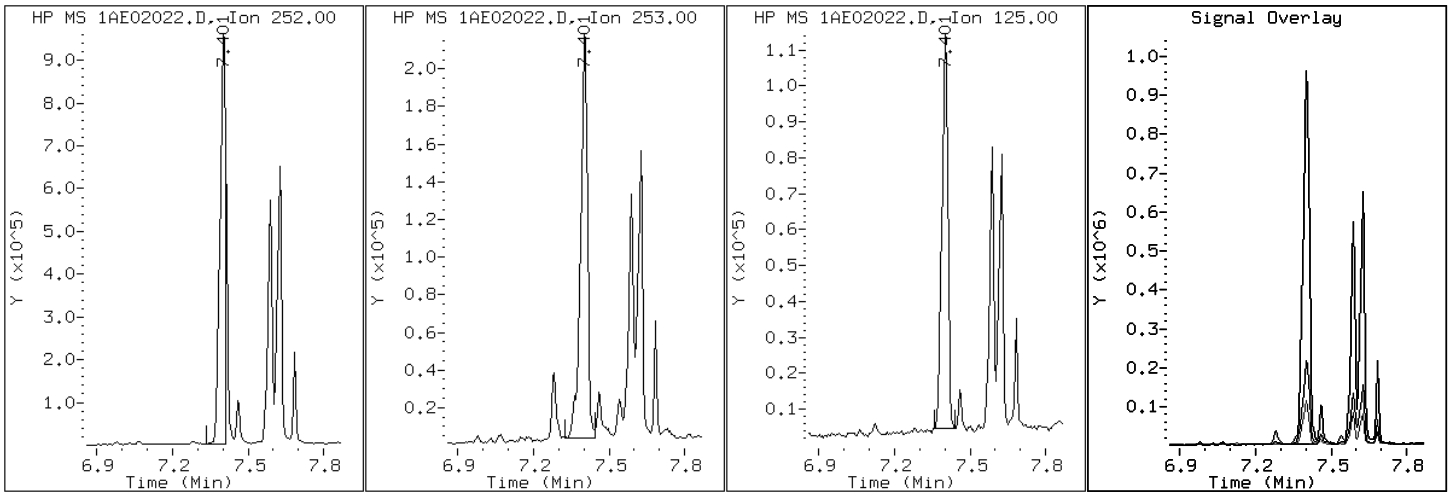
Data File: 1AE02022.D

Date: 02-MAY-2013 20:27

Client ID: CV1220A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-25-a Operator: SCC

20 Benzo(b)fluoranthene



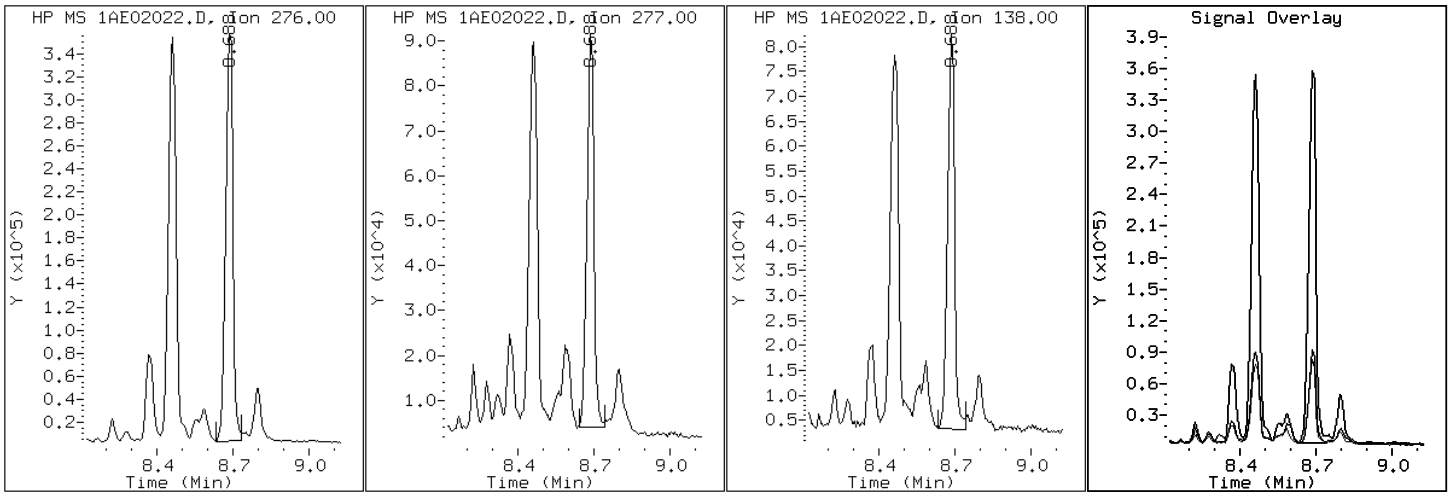
Data File: 1AE02022.D

Date: 02-MAY-2013 20:27

Client ID: CV1220A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-25-a Operator: SCC

26 Benzo(g,h,i)perylene



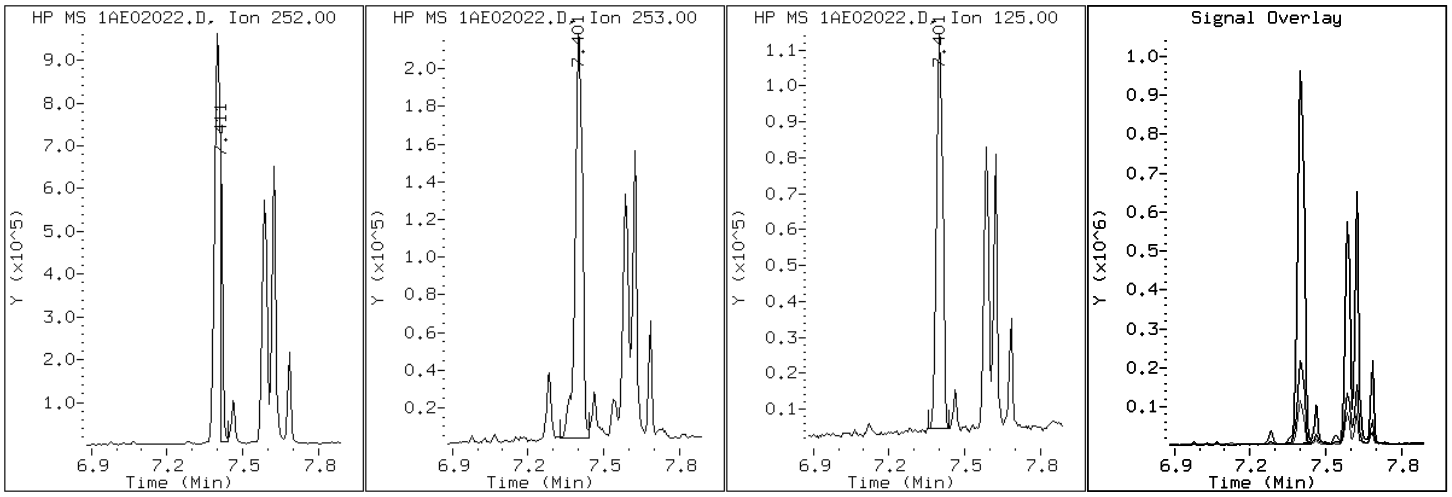
Data File: 1AE02022.D

Date: 02-MAY-2013 20:27

Client ID: CV1220A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-25-a Operator: SCC

21 Benzo(k)fluoranthene



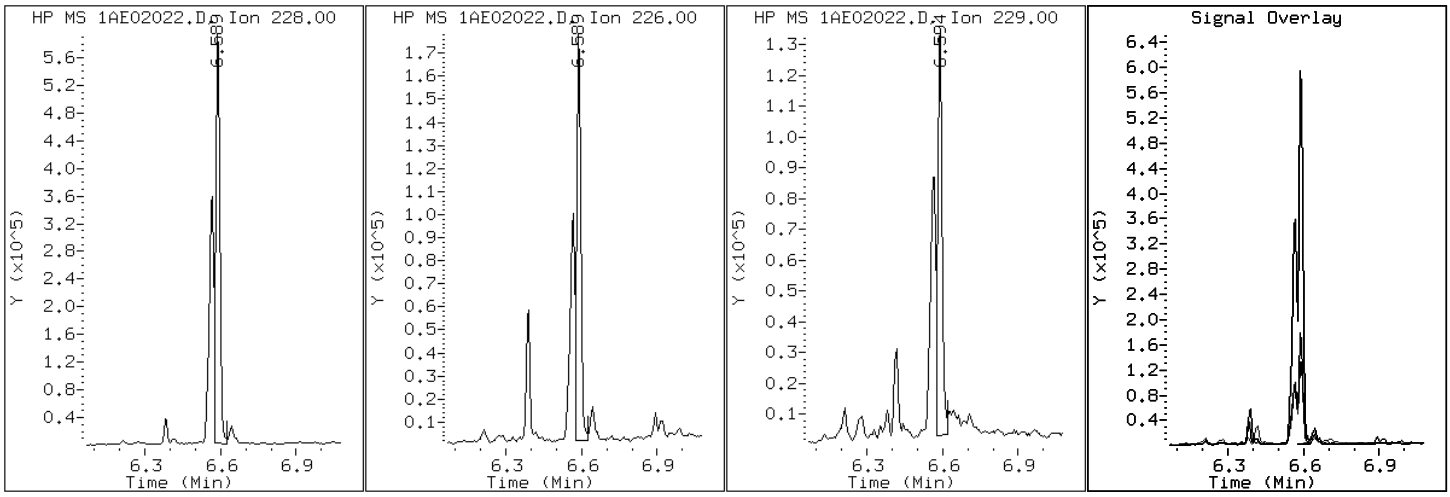
Data File: 1AE02022.D

Date: 02-MAY-2013 20:27

Client ID: CV1220A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-25-a Operator: SCC

19 Chrysene



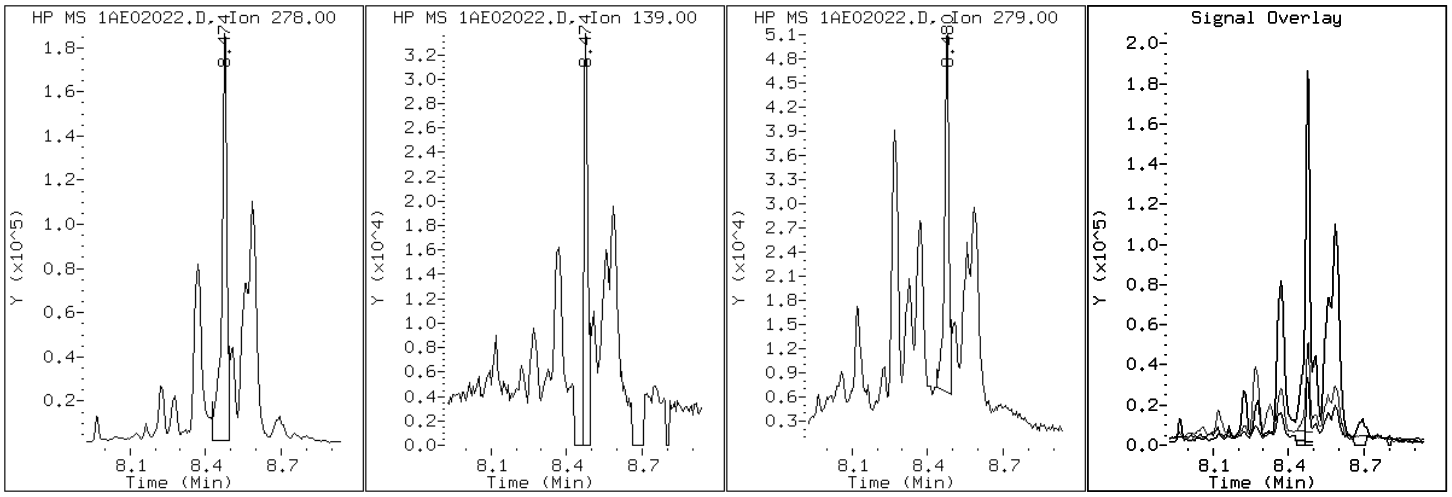
Data File: 1AE02022.D

Date: 02-MAY-2013 20:27

Client ID: CV1220A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-25-a Operator: SCC

25 Dibenzo(a,h)anthracene



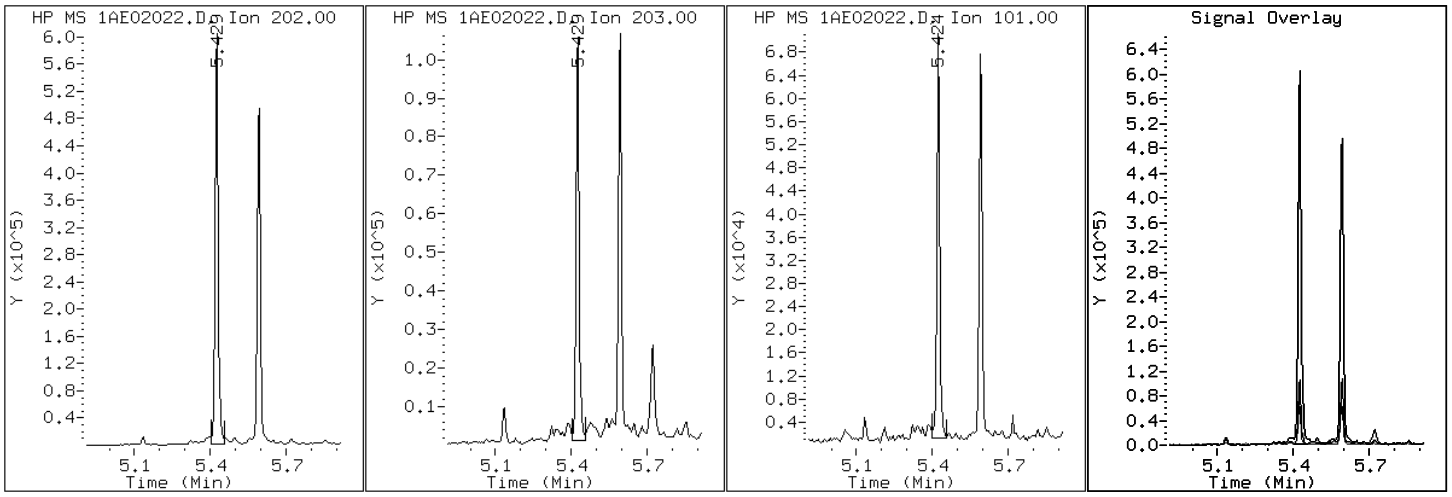
Data File: 1AE02022.D

Date: 02-MAY-2013 20:27

Client ID: CV1220A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-25-a Operator: SCC

15 Fluoranthene



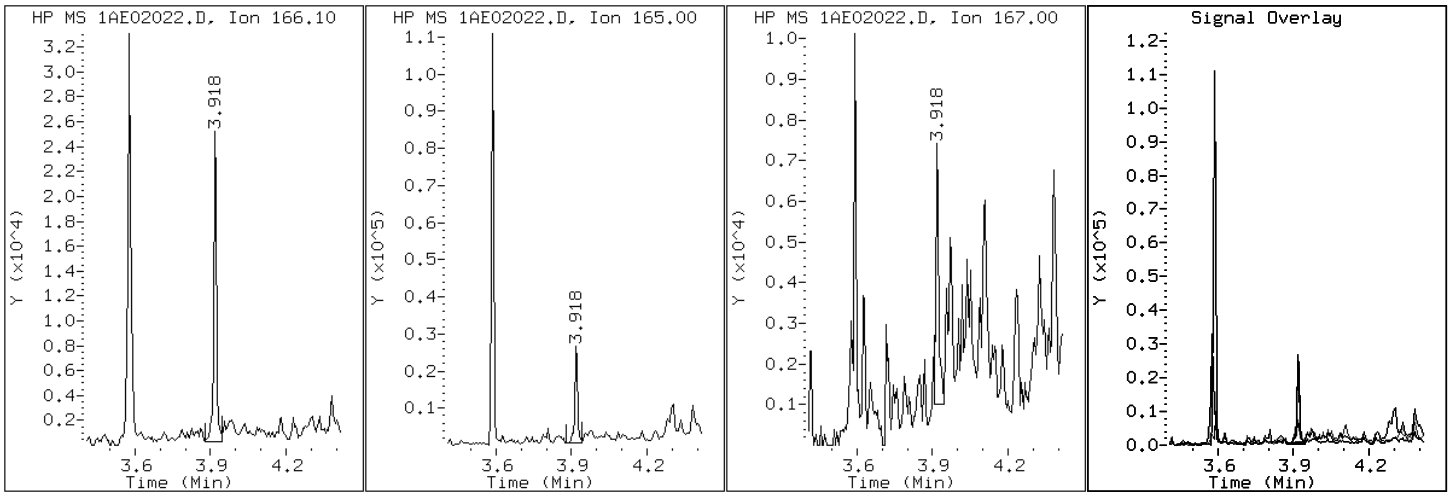
Data File: 1AE02022.D

Date: 02-MAY-2013 20:27

Client ID: CV1220A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-25-a Operator: SCC

9 Fluorene



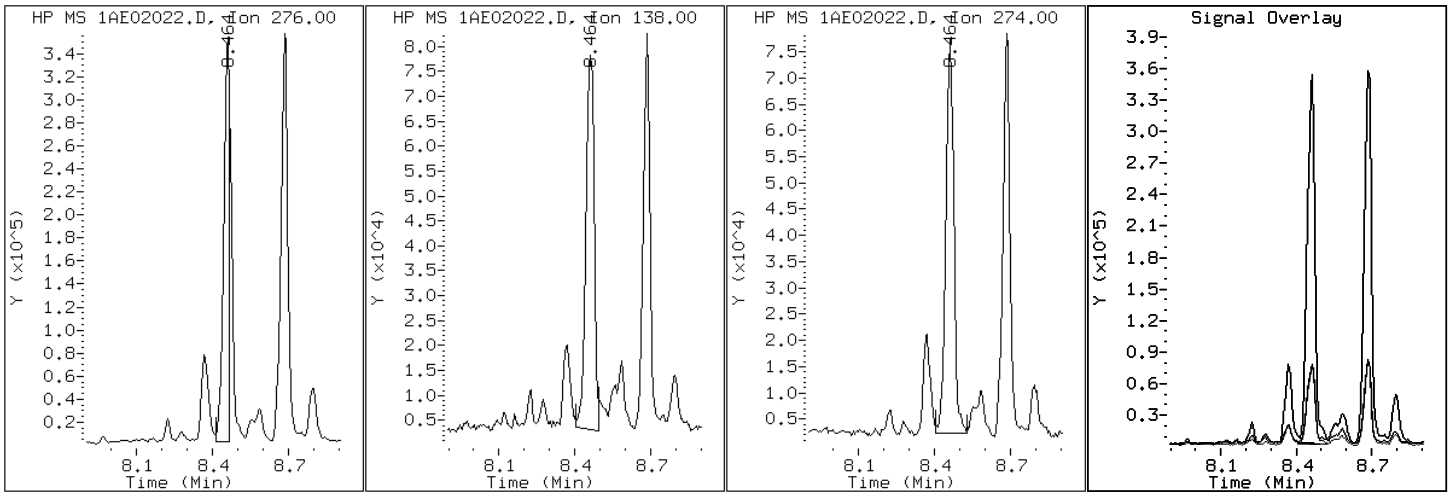
Data File: 1AE02022.D

Date: 02-MAY-2013 20:27

Client ID: CV1220A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-25-a Operator: SCC

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



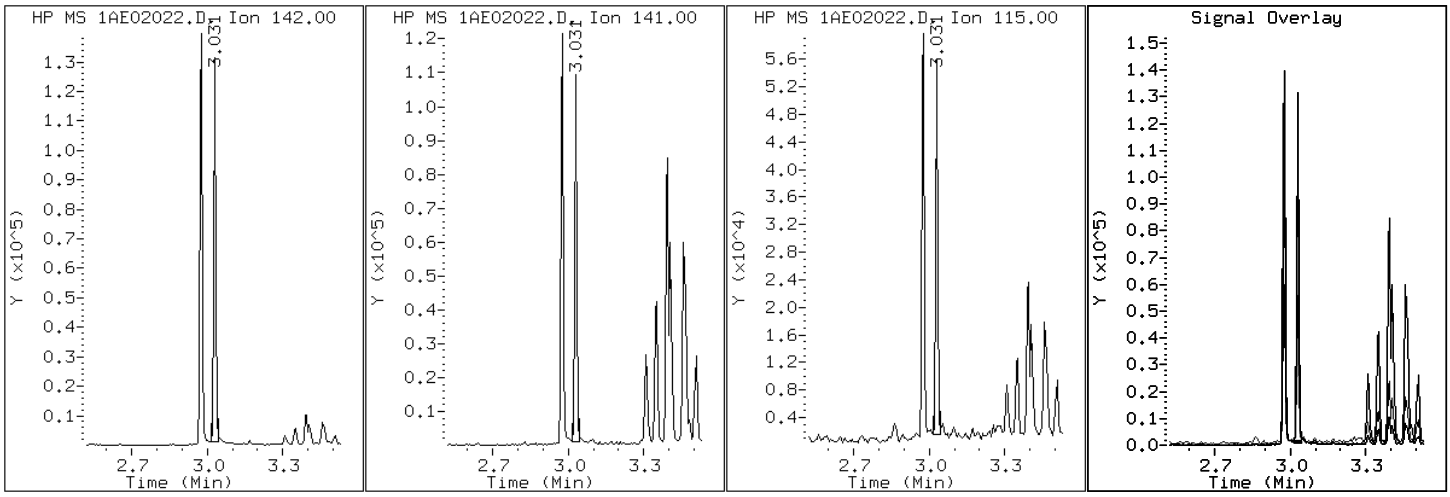
Data File: 1AE02022.D

Date: 02-MAY-2013 20:27

Client ID: CV1220A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-25-a Operator: SCC

4 1-Methylnaphthalene



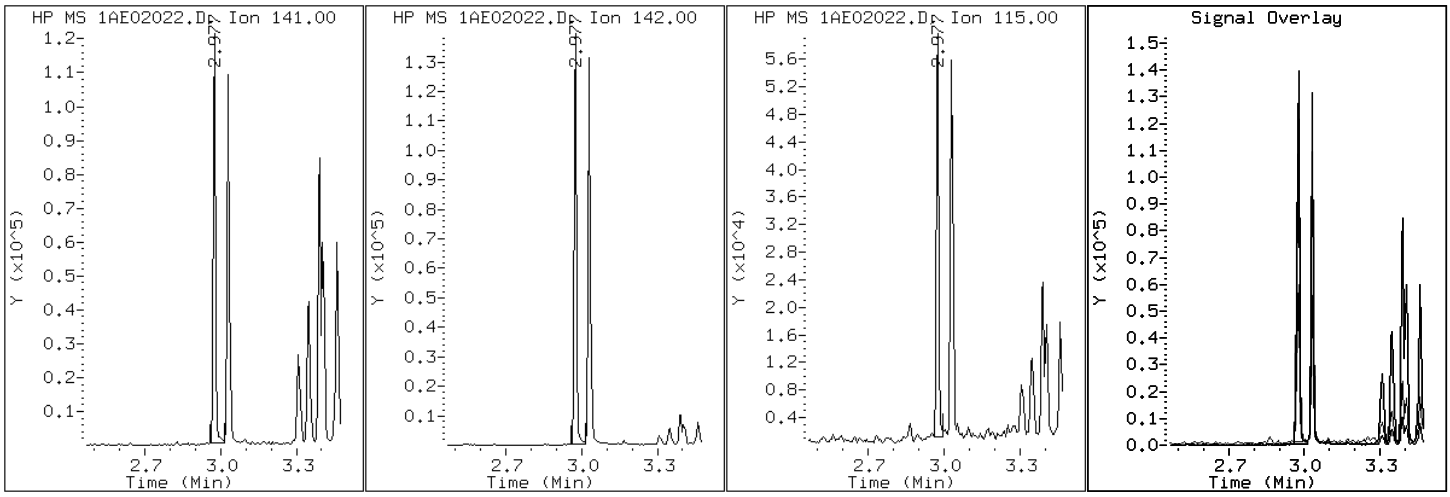
Data File: 1AE02022.D

Date: 02-MAY-2013 20:27

Client ID: CV1220A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-25-a Operator: SCC

3 2-Methylnaphthalene



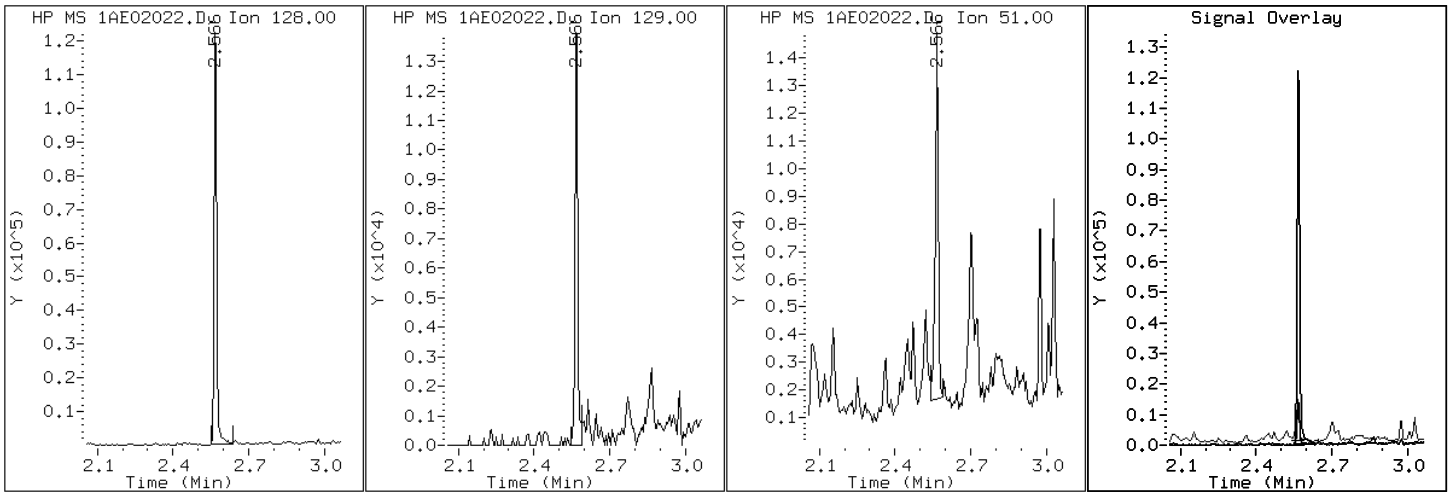
Data File: 1AE02022.D

Date: 02-MAY-2013 20:27

Client ID: CV1220A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-25-a Operator: SCC

2 Naphthalene



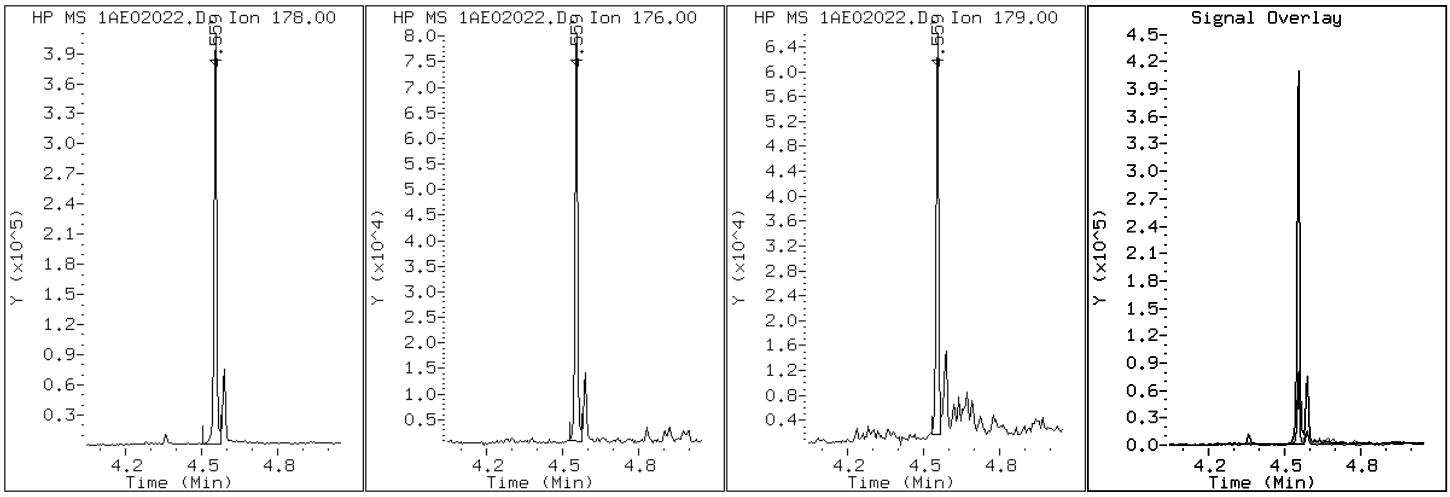
Data File: 1AE02022.D

Date: 02-MAY-2013 20:27

Client ID: CV1220A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-25-a Operator: SCC

11 Phenanthrene



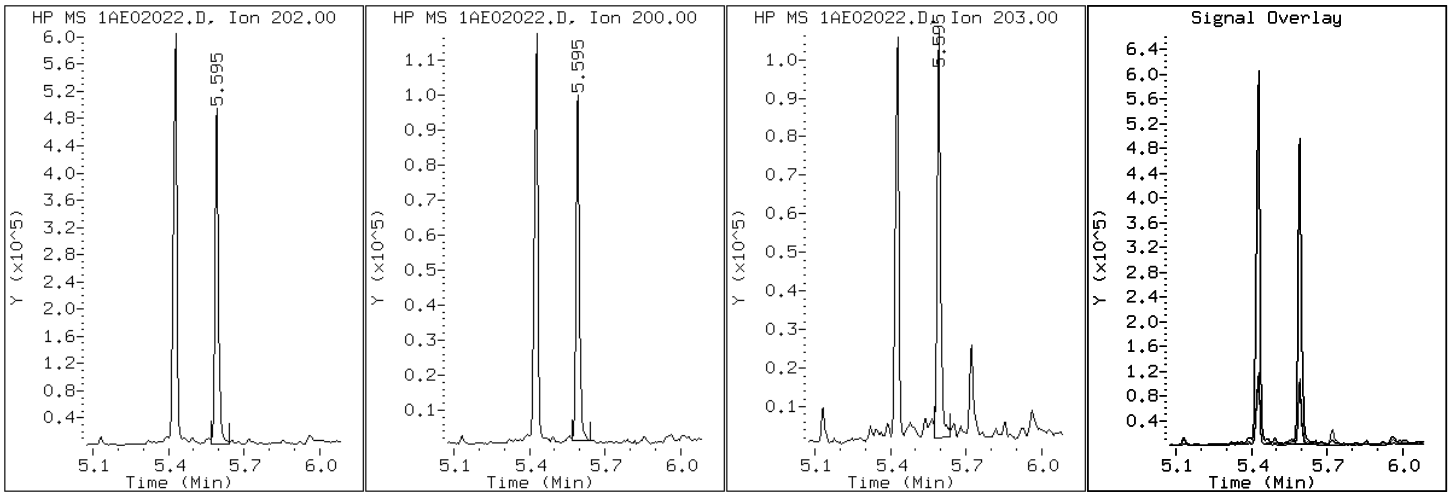
Data File: 1AE02022.D

Date: 02-MAY-2013 20:27

Client ID: CV1220A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-25-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE02022.D
Inj. Date and Time: 02-MAY-2013 20:27
Instrument ID: BSMA5973.i
Client ID: CV1220A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/03/2013

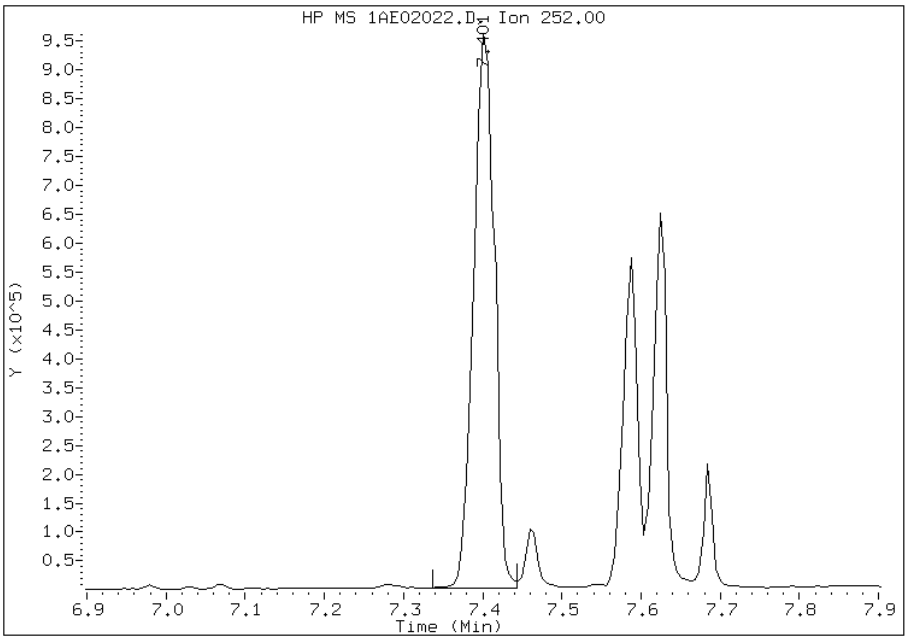
Processing Integration Results

RT: 7.40

Response: 1737529

Amount: 57

Conc: 5065



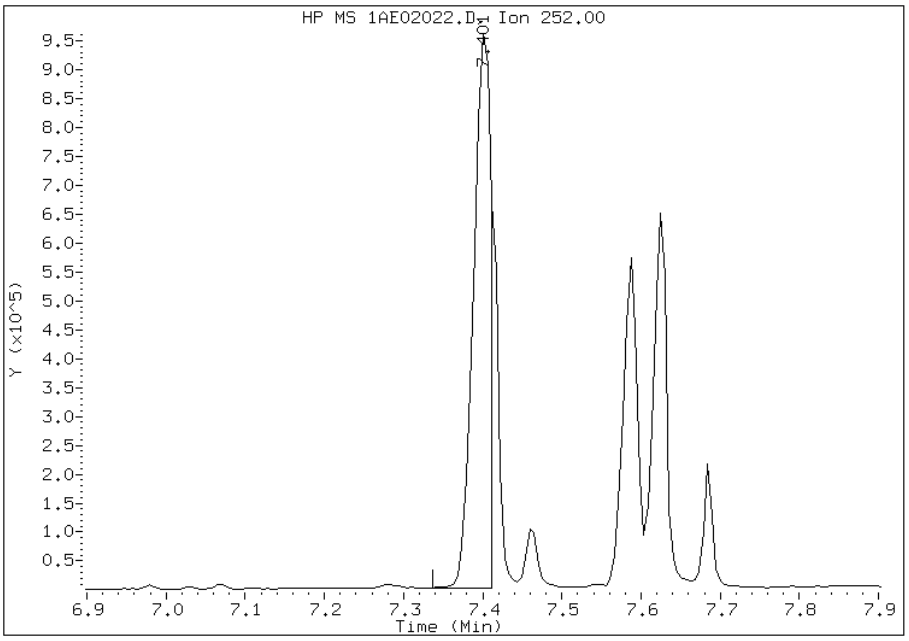
Manual Integration Results

RT: 7.40

Response: 1464073

Amount: 48

Conc: 4268



Manually Integrated By: cantins
Modification Date: 03-May-2013 10:51
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE02022.D
Inj. Date and Time: 02-MAY-2013 20:27
Instrument ID: BSMA5973.i
Client ID: CV1220A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/03/2013

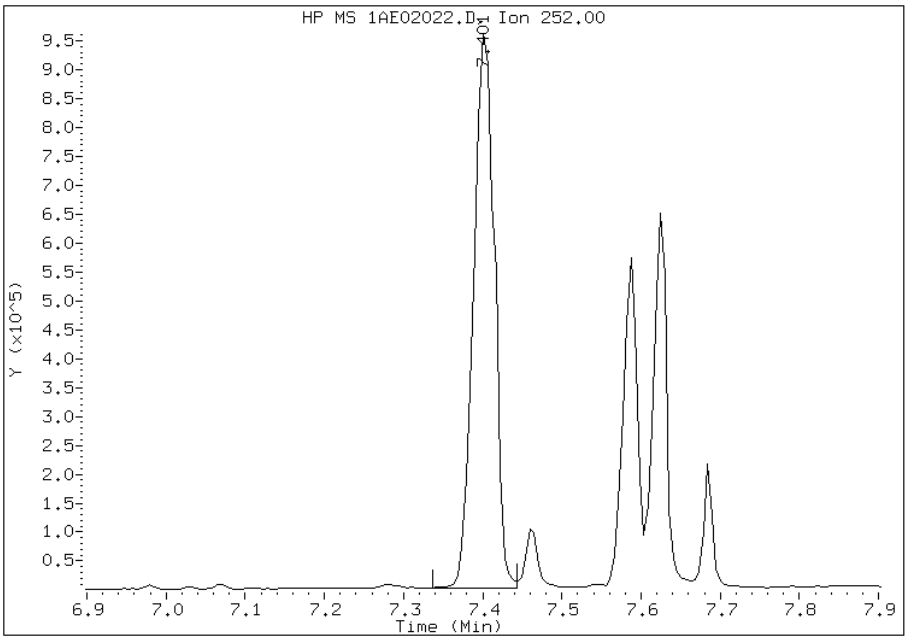
Processing Integration Results

RT: 7.40

Response: 1737529

Amount: 50

Conc: 4405



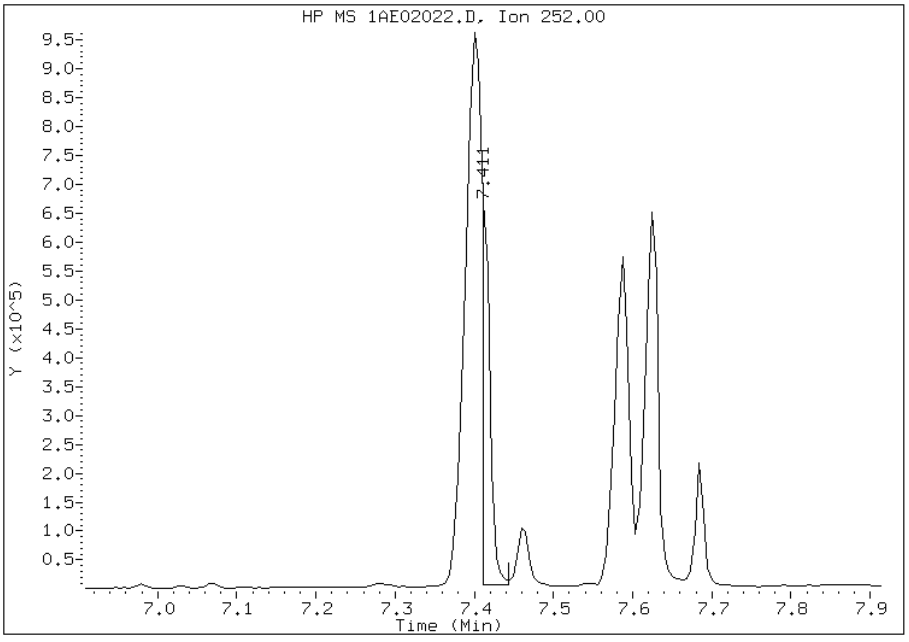
Manual Integration Results

RT: 7.41

Response: 479336

Amount: 14

Conc: 1215



Manually Integrated By: cantins
Modification Date: 03-May-2013 10:51
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE02022.D
Inj. Date and Time: 02-MAY-2013 20:27
Instrument ID: BSMA5973.i
Client ID: CV1220A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/03/2013

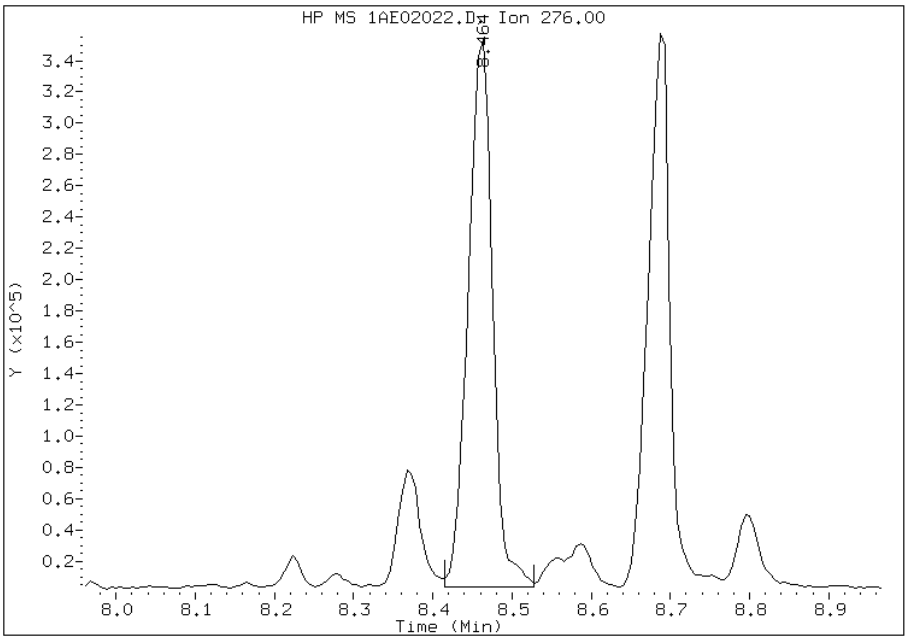
Processing Integration Results

RT: 8.46

Response: 743904

Amount: 26

Conc: 2309



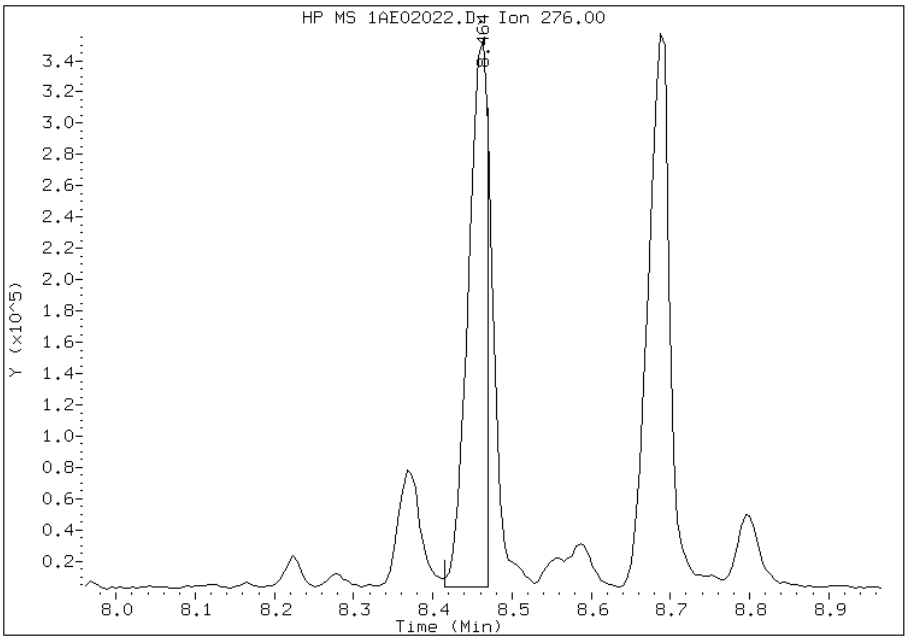
Manual Integration Results

RT: 8.46

Response: 593303

Amount: 21

Conc: 1841



Manually Integrated By: cantins
Modification Date: 03-May-2013 10:51
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: CV1220A-CSD | Lab Sample ID: 680-89791-26

Matrix: Solid | Lab File ID: 1AE02023.D

Analysis Method: 8270C LL | Date Collected: 04/25/2013 09:30

Extract. Method: 3546 | Date Extracted: 04/30/2013 14:42

Sample wt/vol: 14.96(g) | Date Analyzed: 05/02/2013 20:43

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137070 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	15	J	50	6.2
120-12-7	Anthracene	58		10	5.2
56-55-3	Benzo[a]anthracene	810		10	4.9
50-32-8	Benzo[a]pyrene	1100		13	6.5
205-99-2	Benzo[b]fluoranthene	2100		15	7.6
191-24-2	Benzo[g,h,i]perylene	930		25	5.5
207-08-9	Benzo[k]fluoranthene	620		10	4.5
218-01-9	Chrysene	1000		11	5.6
53-70-3	Dibenz(a,h)anthracene	470		25	5.1
206-44-0	Fluoranthene	580		25	5.0
86-73-7	Fluorene	19	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	980		25	8.8
90-12-0	1-Methylnaphthalene	180		50	5.5
91-57-6	2-Methylnaphthalene	220		50	8.8
91-20-3	Naphthalene	150		50	5.5
85-01-8	Phenanthrene	340		10	4.9
129-00-0	Pyrene	510		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	39		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02023.D
Lab Smp Id: 680-89791-A-26-A Client Smp ID: CV1220A-CSD
Inj Date : 02-MAY-2013 20:43
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89791-a-26-a
Misc Info : 680-89791-A-26-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\a-bFASTPAHi-m.m
Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 20
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/Ws * 100/(100 - M) * A * B * C * D * GPC * 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	19.456	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.559	2.550	(1.000)	1131236	40.0000	
* 6 Acenaphthene-d10	164	3.590	3.581	(1.000)	586850	40.0000	
* 10 Phenanthrene-d10	188	4.541	4.532	(1.000)	795445	40.0000	
$ 14 o-Terphenyl	230	4.840	4.831	(1.066)	50540	3.88451	322.3831
* 18 Chrysene-d12	240	6.571	6.551	(1.000)	802142	40.0000	
* 23 Perylene-d12	264	7.666	7.641	(1.000)	977594	40.0000	
2 Naphthalene	128	2.569	2.560	(1.004)	52313	1.84992	153.5280
3 2-Methylnaphthalene	141	2.975	2.972	(1.163)	43368	2.67493	221.9977
4 1-Methylnaphthalene	142	3.029	3.025	(1.184)	39921	2.22248	184.4476
5 Acenaphthylene	152	3.499	3.490	(0.975)	6292	0.18346	15.2253(Q)
9 Fluorene	166	3.921	3.912	(1.092)	4967	0.22953	19.0490(Q)
11 Phenanthrene	178	4.557	4.548	(1.004)	95351	4.13806	343.4251
12 Anthracene	178	4.589	4.580	(1.011)	16867	0.70399	58.4253
13 Carbazole	167	4.727	4.713	(1.041)	9624	0.41638	34.5564

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	5.422	5.413	(1.194)	187129	7.03108	583.5224
16 Pyrene	202	5.593	5.579	(0.851)	189387	6.18865	513.6080
17 Benzo(a)anthracene	228	6.565	6.540	(0.999)	255133	9.73953	808.3021
19 Chrysene	228	6.587	6.572	(1.002)	322338	12.1289	1006.6024
20 Benzo(b)fluoranthene	252	7.393	7.363	(0.964)	768345	25.8884	2148.5234(M)
21 Benzo(k)fluoranthene	252	7.404	7.384	(0.966)	255047	7.47422	620.2995(QM)
22 Benzo(a)pyrene	252	7.618	7.593	(0.994)	396165	13.4178	1113.5680
24 Indeno(1,2,3-cd)pyrene	276	8.446	8.405	(1.102)	328104	11.7693	976.7529(M)
25 Dibenzo(a,h)anthracene	278	8.462	8.431	(1.104)	145379	5.60462	465.1378
26 Benzo(g,h,i)perylene	276	8.670	8.624	(1.131)	350246	11.2255	931.6274

QC Flag Legend

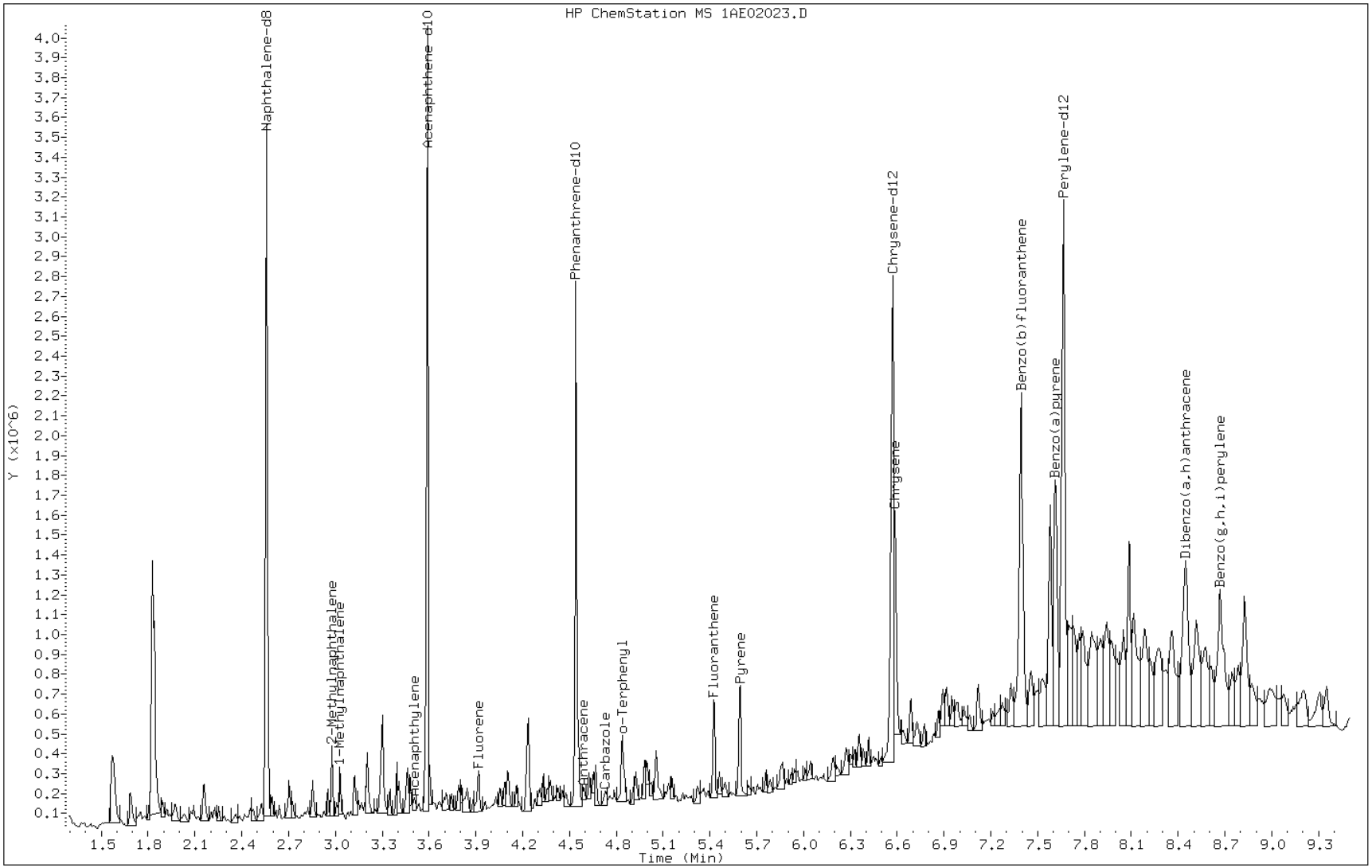
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE02023.D

Date: 02-MAY-2013 20:43

Client ID: CV1220A-CSD Instrument: BSMA5973.i

Sample Info: 680-89791-a-26-a Operator: SCC



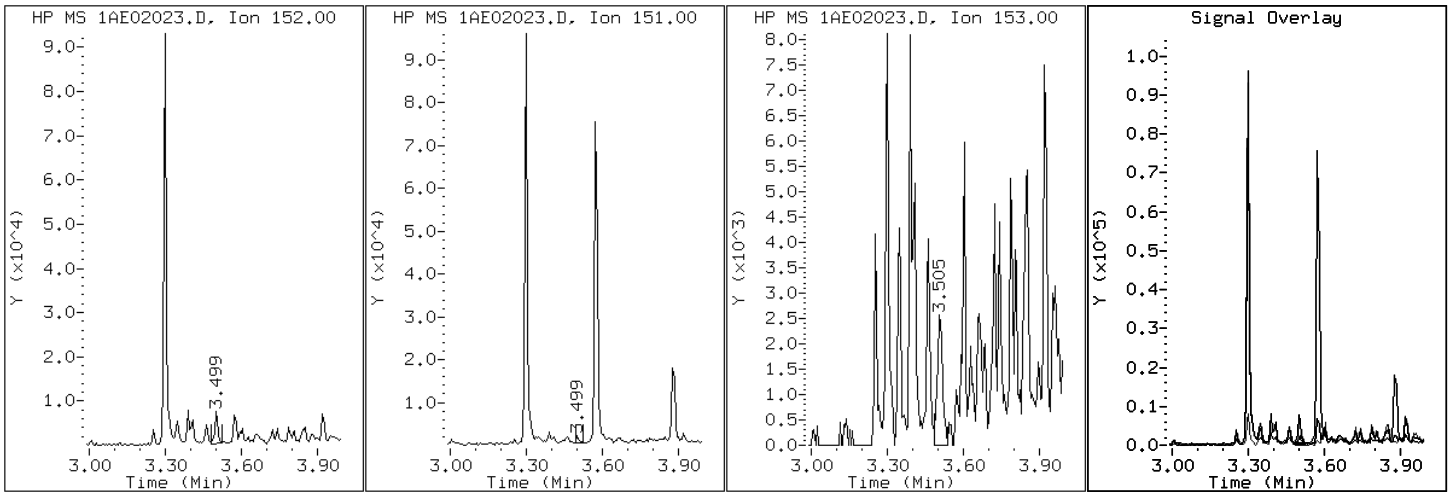
Data File: 1AE02023.D

Date: 02-MAY-2013 20:43

Client ID: CV1220A-CSD Instrument: BSMA5973.i

Sample Info: 680-89791-a-26-a Operator: SCC

5 Acenaphthylene



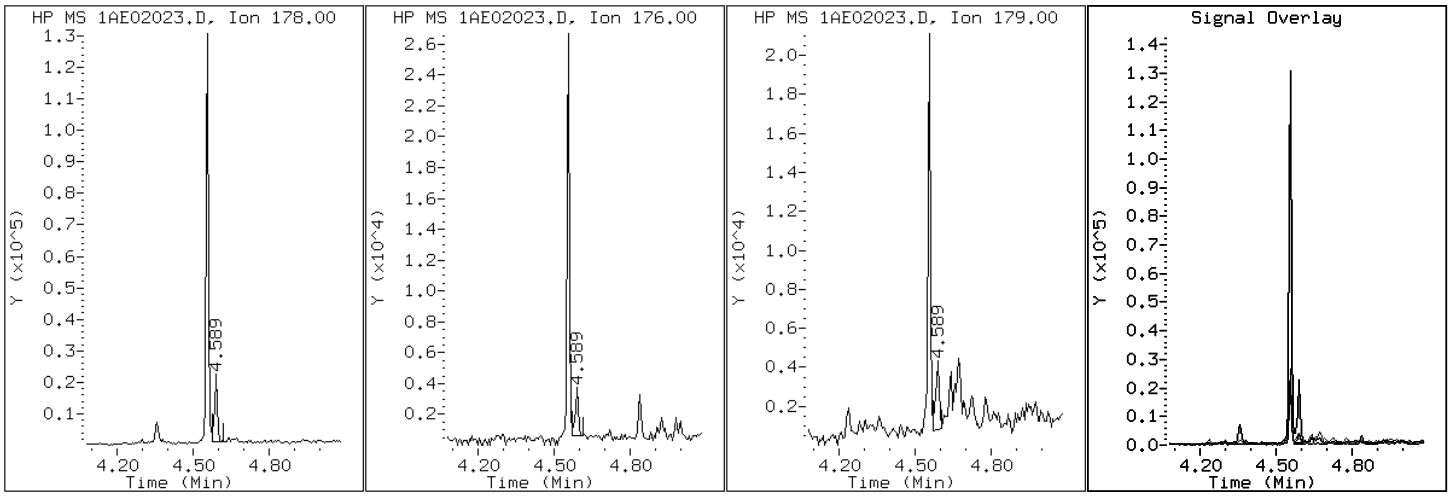
Data File: 1AE02023.D

Date: 02-MAY-2013 20:43

Client ID: CV1220A-CSD Instrument: BSMA5973.i

Sample Info: 680-89791-a-26-a Operator: SCC

12 Anthracene



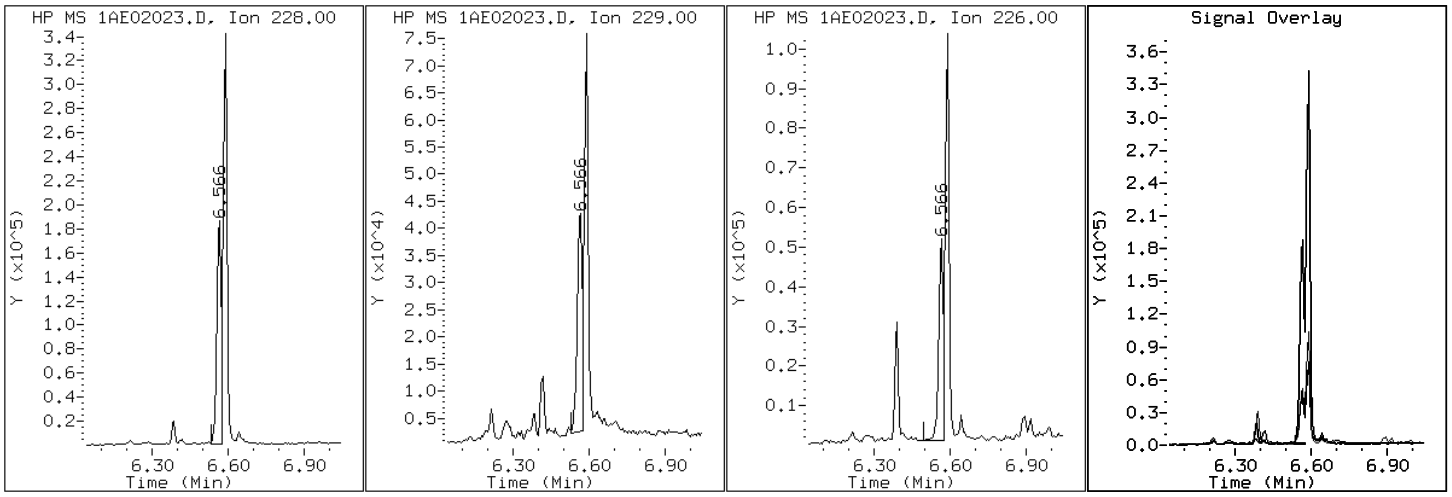
Data File: 1AE02023.D

Date: 02-MAY-2013 20:43

Client ID: CV1220A-CSD Instrument: BSMA5973.i

Sample Info: 680-89791-a-26-a Operator: SCC

17 Benzo(a)anthracene



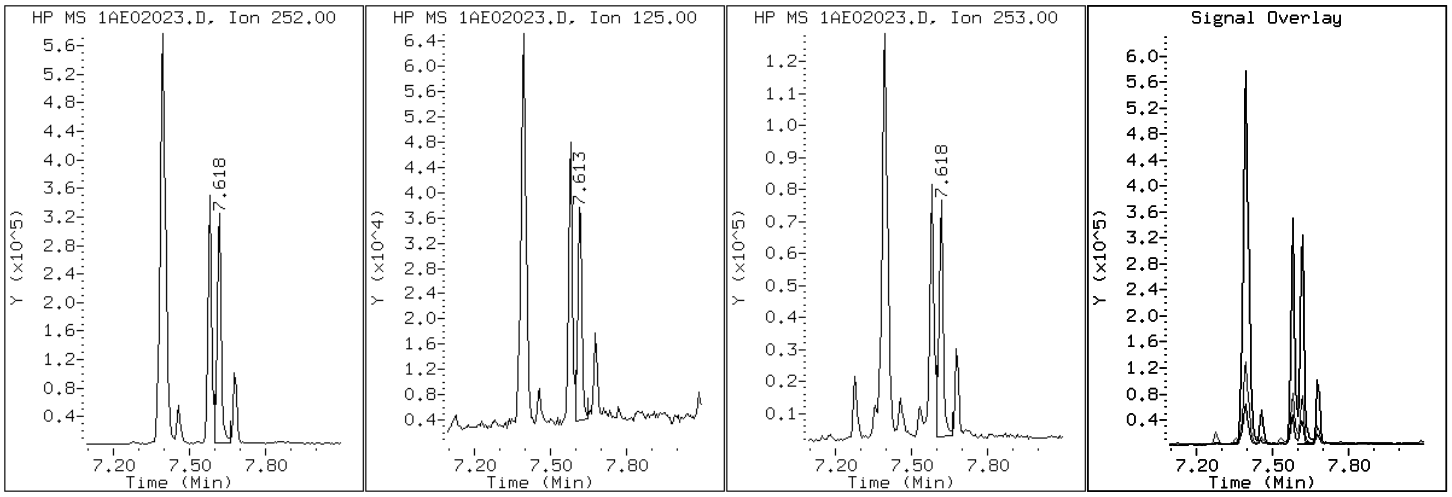
Data File: 1AE02023.D

Date: 02-MAY-2013 20:43

Client ID: CV1220A-CSD Instrument: BSMA5973.i

Sample Info: 680-89791-a-26-a Operator: SCC

22 Benzo(a)pyrene



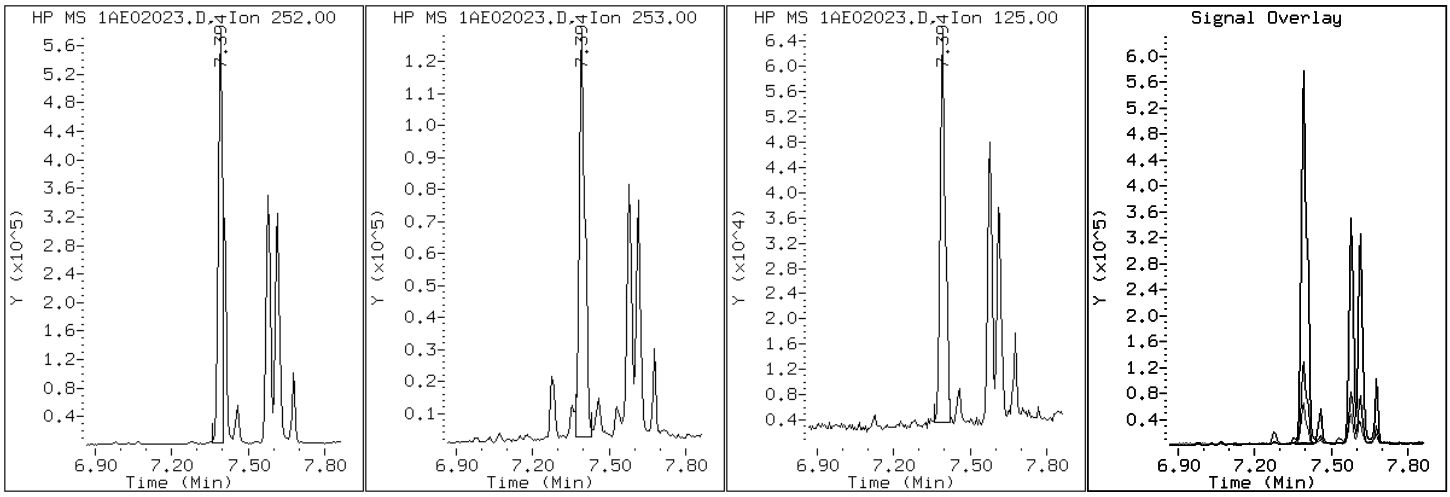
Data File: 1AE02023.D

Date: 02-MAY-2013 20:43

Client ID: CV1220A-CSD Instrument: BSMA5973.i

Sample Info: 680-89791-a-26-a Operator: SCC

20 Benzo(b)fluoranthene



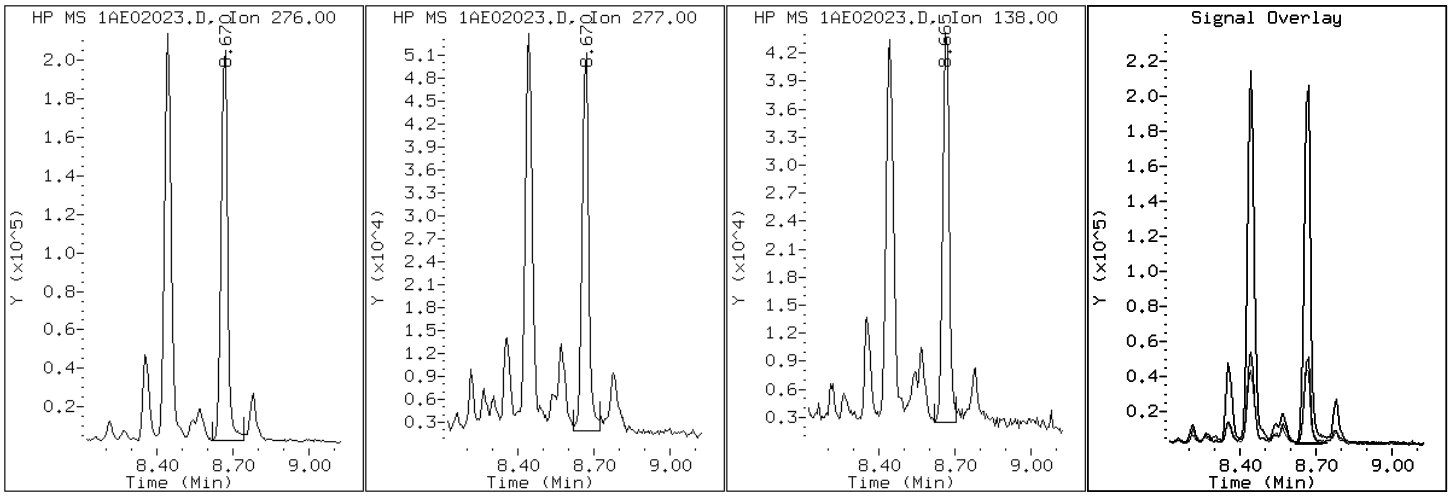
Data File: 1AE02023.D

Date: 02-MAY-2013 20:43

Client ID: CV1220A-CSD Instrument: BSMA5973.i

Sample Info: 680-89791-a-26-a Operator: SCC

26 Benzo(g,h,i)perylene



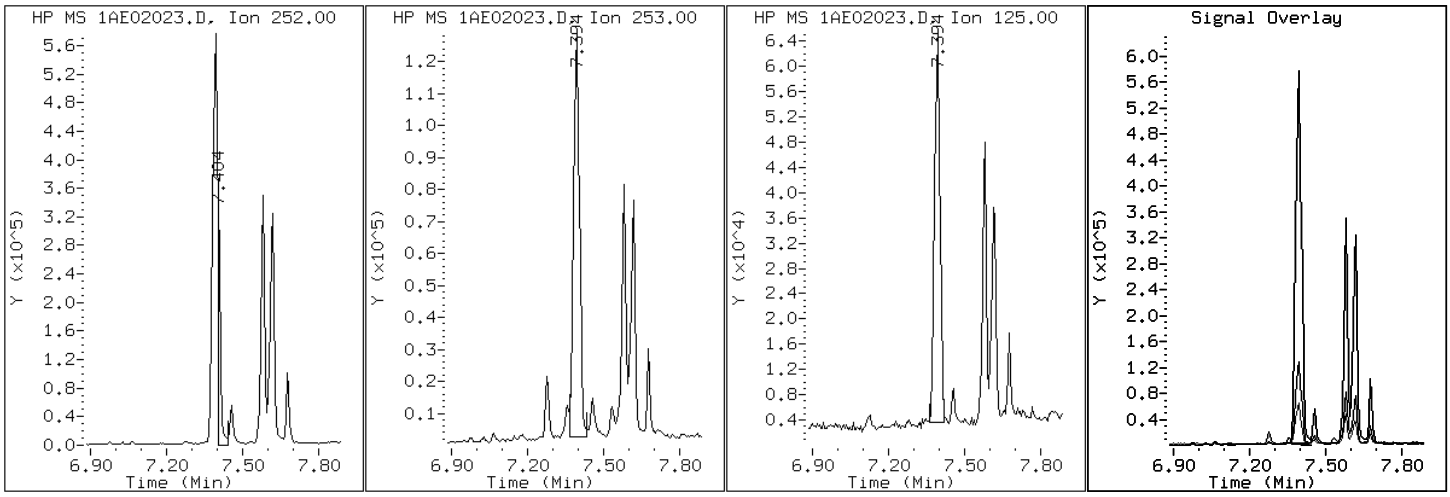
Data File: 1AE02023.D

Date: 02-MAY-2013 20:43

Client ID: CV1220A-CSD Instrument: BSMA5973.i

Sample Info: 680-89791-a-26-a Operator: SCC

21 Benzo(k)fluoranthene



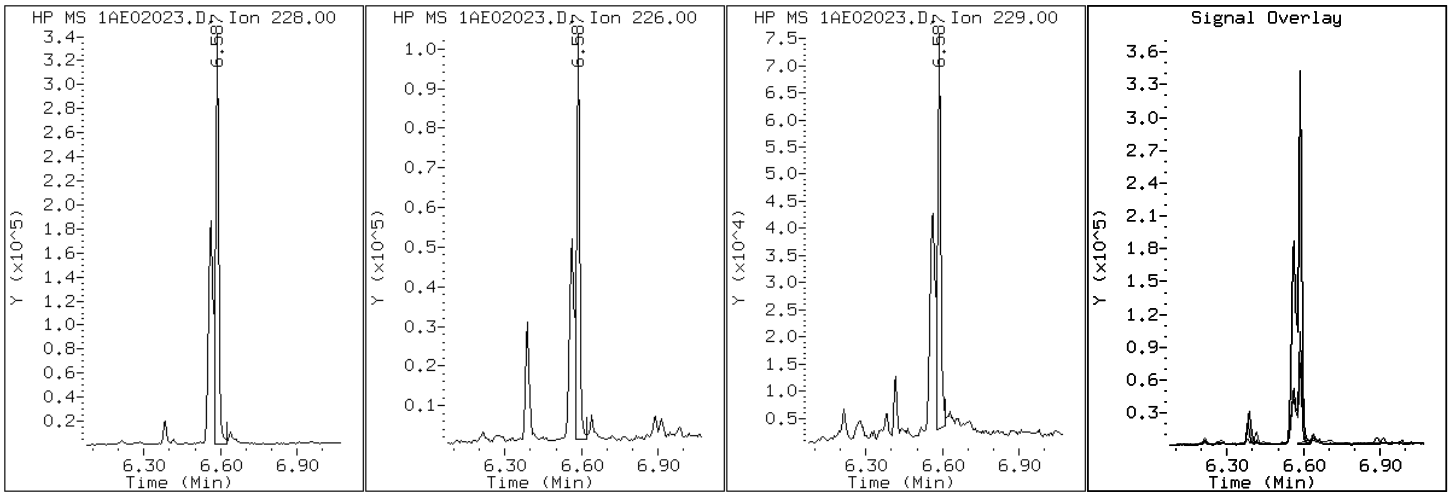
Data File: 1AE02023.D

Date: 02-MAY-2013 20:43

Client ID: CV1220A-CSD Instrument: BSMA5973.i

Sample Info: 680-89791-a-26-a Operator: SCC

19 Chrysene



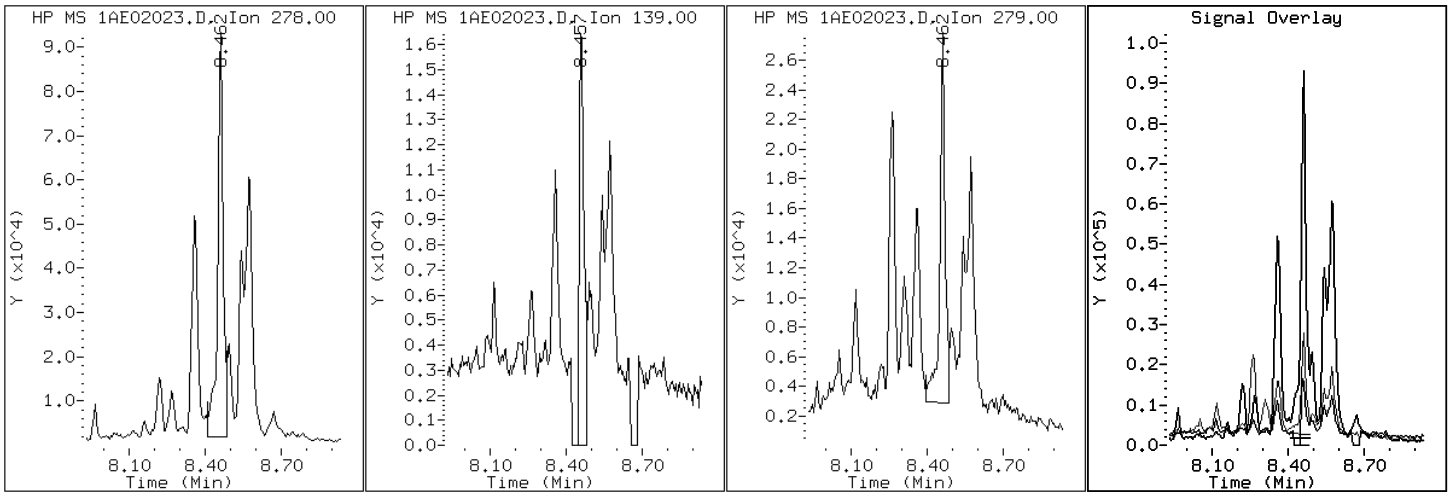
Data File: 1AE02023.D

Date: 02-MAY-2013 20:43

Client ID: CV1220A-CSD Instrument: BSMA5973.i

Sample Info: 680-89791-a-26-a Operator: SCC

25 Dibenzo(a,h)anthracene



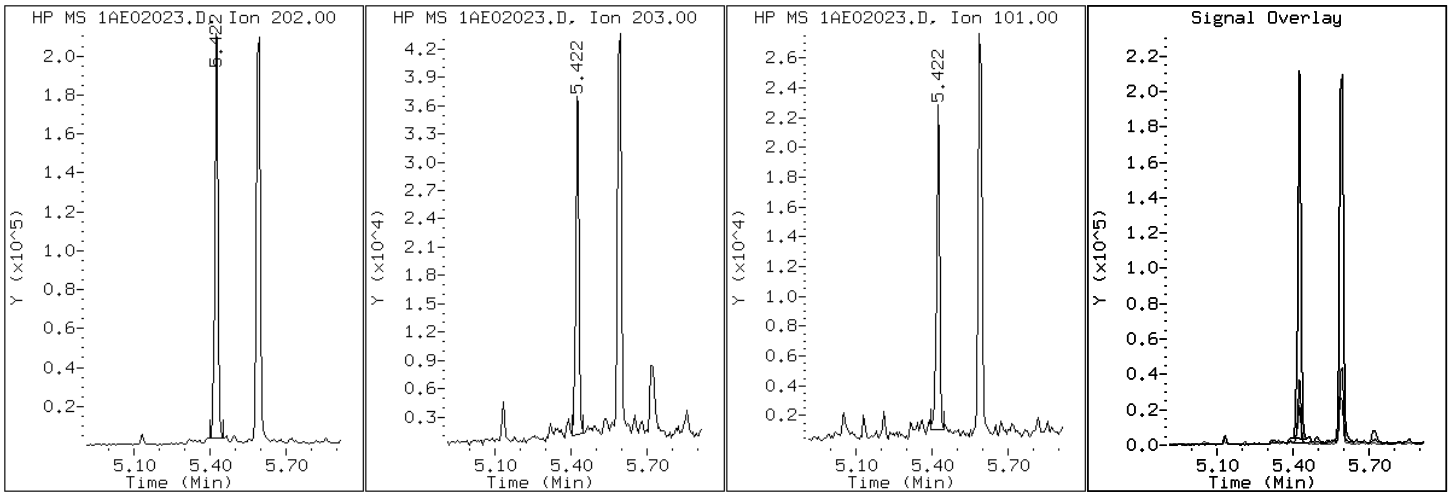
Data File: 1AE02023.D

Date: 02-MAY-2013 20:43

Client ID: CV1220A-CSD Instrument: BSMA5973.i

Sample Info: 680-89791-a-26-a Operator: SCC

15 Fluoranthene



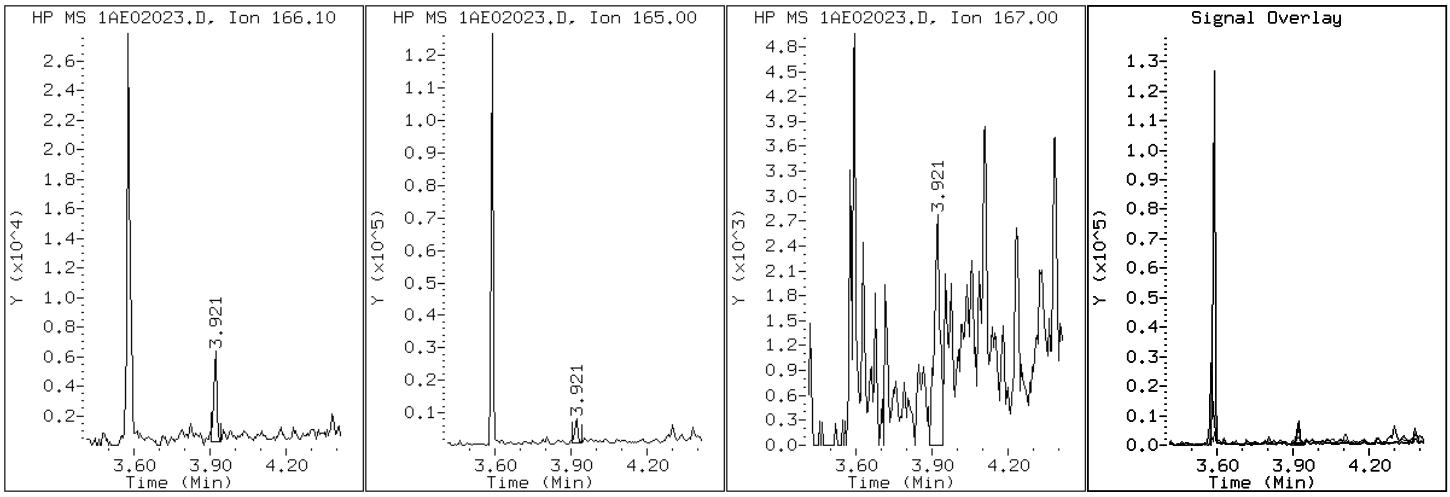
Data File: 1AE02023.D

Date: 02-MAY-2013 20:43

Client ID: CV1220A-CSD Instrument: BSMA5973.i

Sample Info: 680-89791-a-26-a Operator: SCC

9 Fluorene



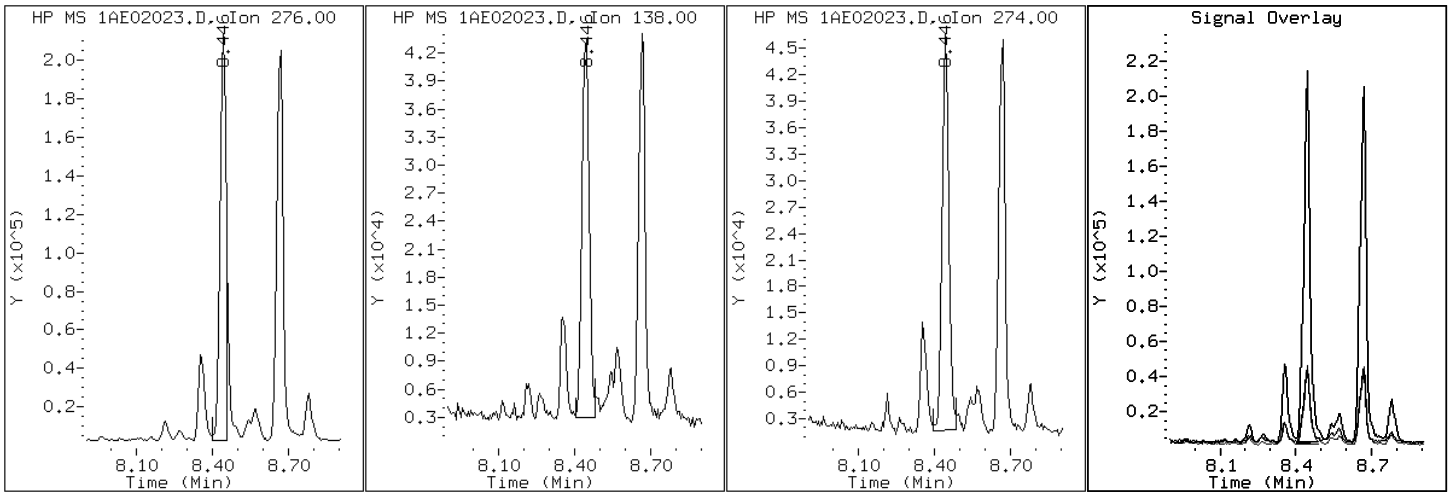
Data File: 1AE02023.D

Date: 02-MAY-2013 20:43

Client ID: CV1220A-CSD Instrument: BSMA5973.i

Sample Info: 680-89791-a-26-a Operator: SCC

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



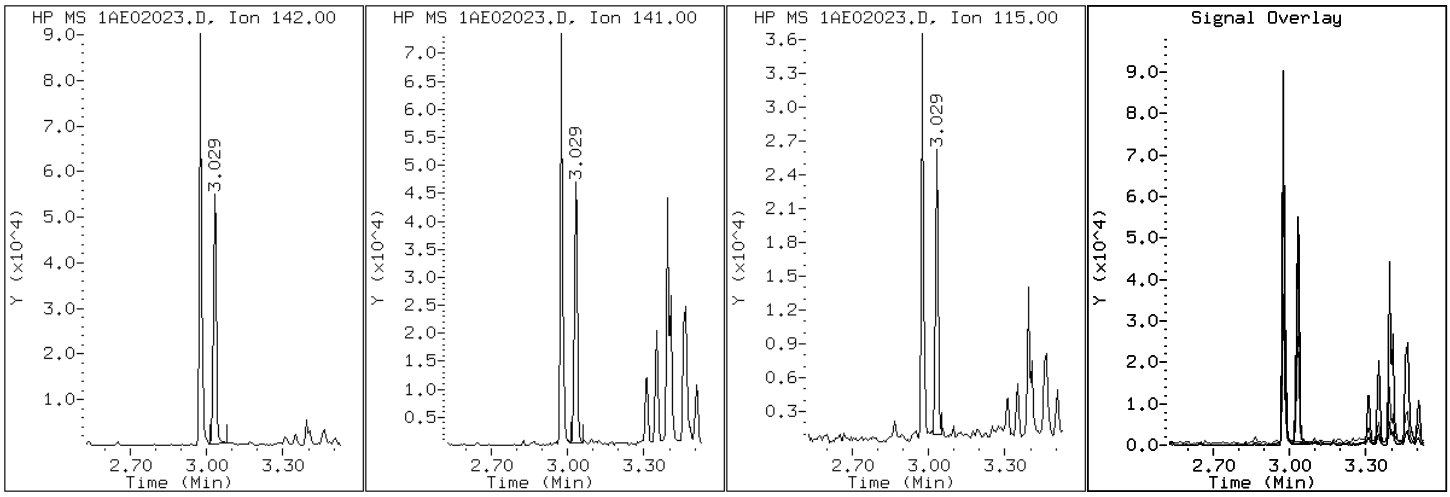
Data File: 1AE02023.D

Date: 02-MAY-2013 20:43

Client ID: CV1220A-CSD Instrument: BSMA5973.i

Sample Info: 680-89791-a-26-a Operator: SCC

4 1-Methylnaphthalene



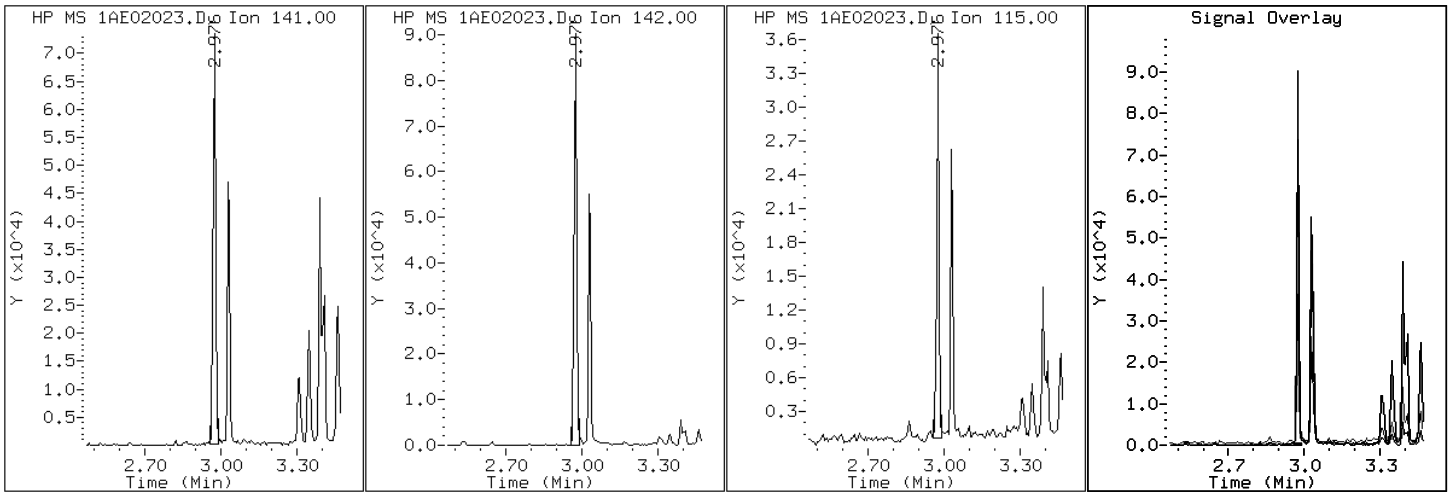
Data File: 1AE02023.D

Date: 02-MAY-2013 20:43

Client ID: CV1220A-CSD Instrument: BSMA5973.i

Sample Info: 680-89791-a-26-a Operator: SCC

3 2-Methylnaphthalene



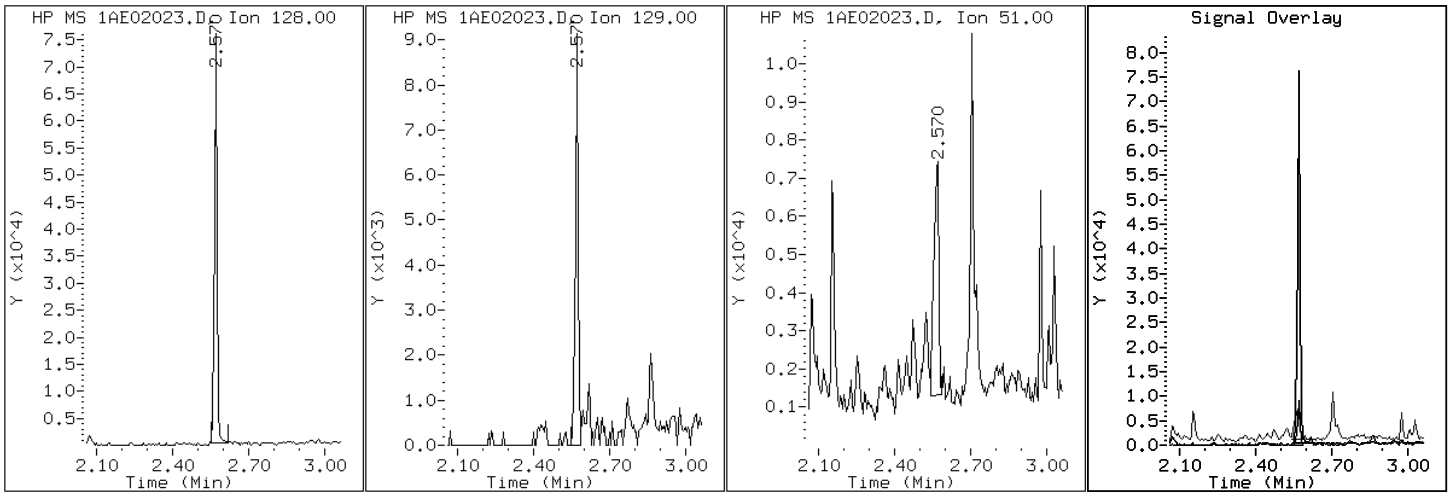
Data File: 1AE02023.D

Date: 02-MAY-2013 20:43

Client ID: CV1220A-CSD Instrument: BSMA5973.i

Sample Info: 680-89791-a-26-a Operator: SCC

2 Naphthalene



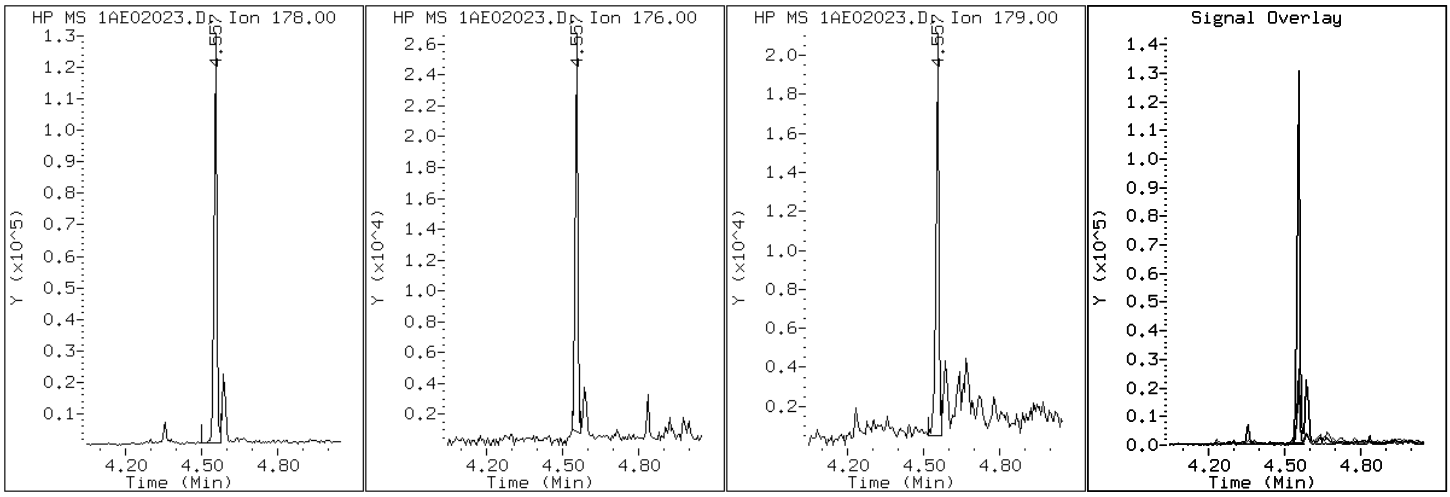
Data File: 1AE02023.D

Date: 02-MAY-2013 20:43

Client ID: CV1220A-CSD Instrument: BSMA5973.i

Sample Info: 680-89791-a-26-a Operator: SCC

11 Phenanthrene



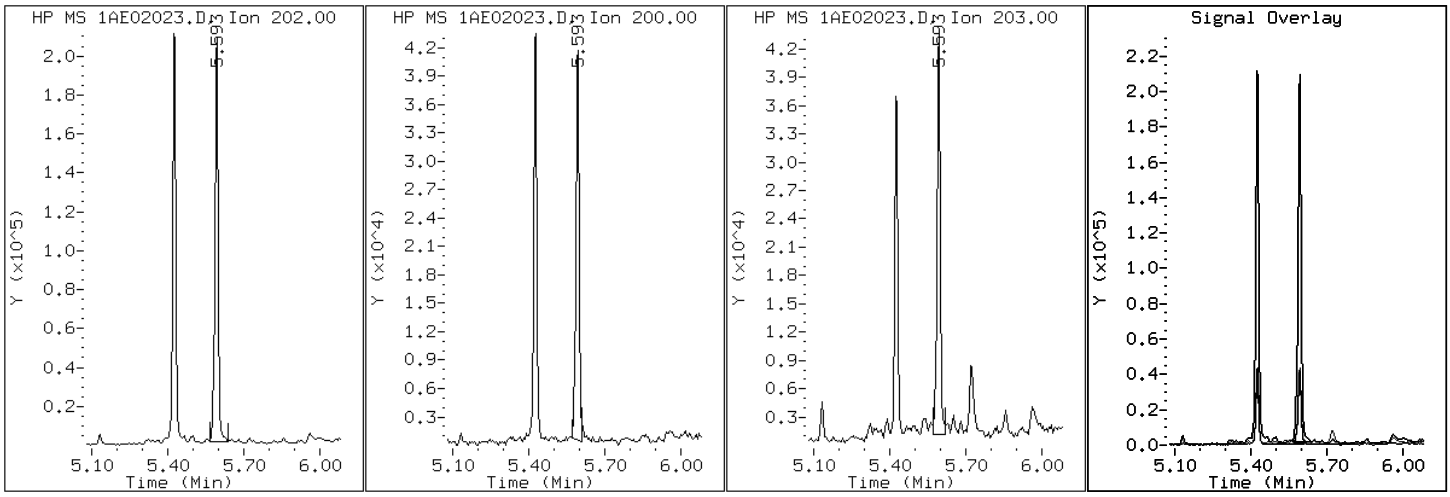
Data File: 1AE02023.D

Date: 02-MAY-2013 20:43

Client ID: CV1220A-CSD Instrument: BSMA5973.i

Sample Info: 680-89791-a-26-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE02023.D
Inj. Date and Time: 02-MAY-2013 20:43
Instrument ID: BSMA5973.i
Client ID: CV1220A-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/03/2013

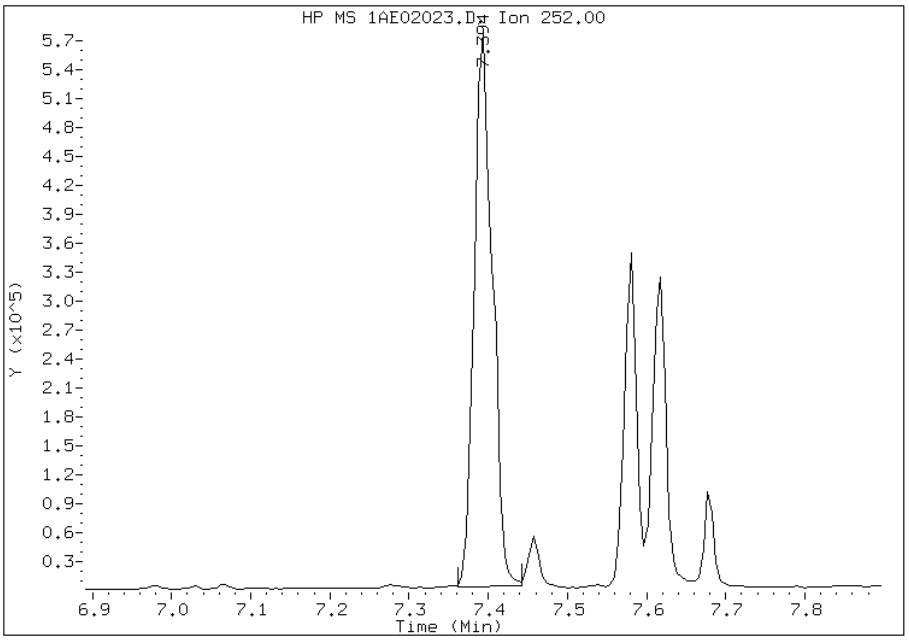
Processing Integration Results

RT: 7.39

Response: 906911

Amount: 31

Conc: 2536



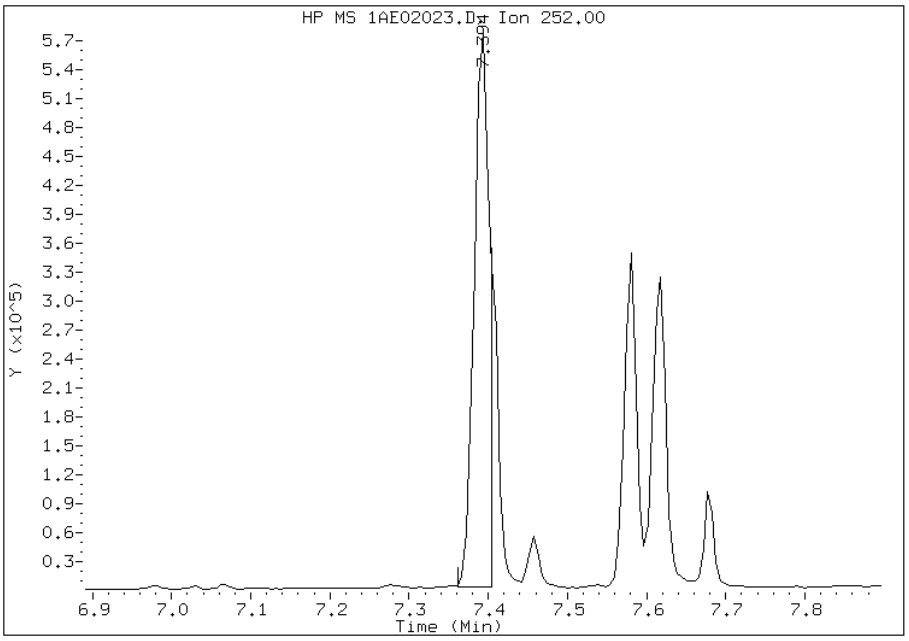
Manual Integration Results

RT: 7.39

Response: 768345

Amount: 26

Conc: 2149



Manually Integrated By: cantins
Modification Date: 03-May-2013 10:53
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE02023.D
Inj. Date and Time: 02-MAY-2013 20:43
Instrument ID: BSMA5973.i
Client ID: CV1220A-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/03/2013

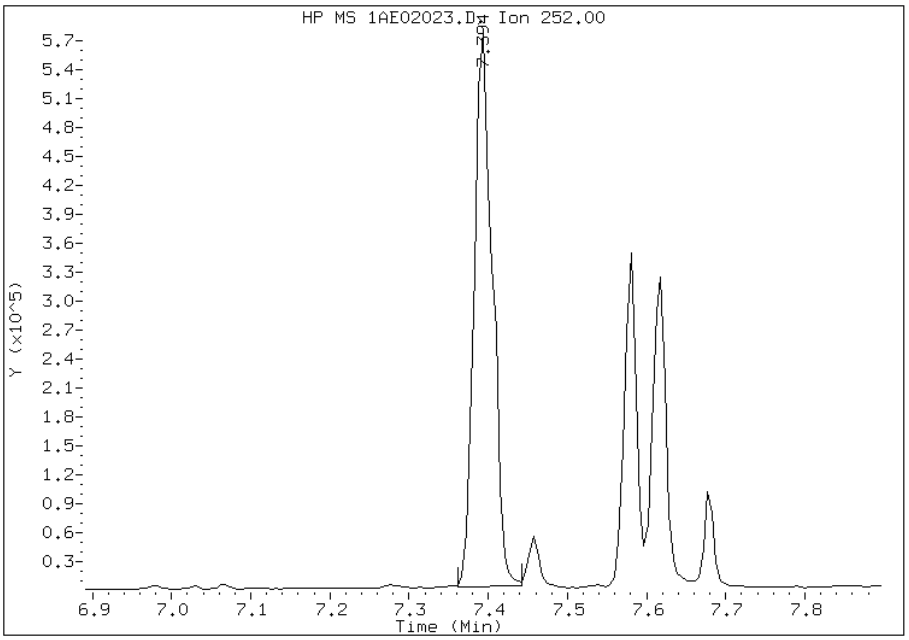
Processing Integration Results

RT: 7.39

Response: 906911

Amount: 27

Conc: 2206



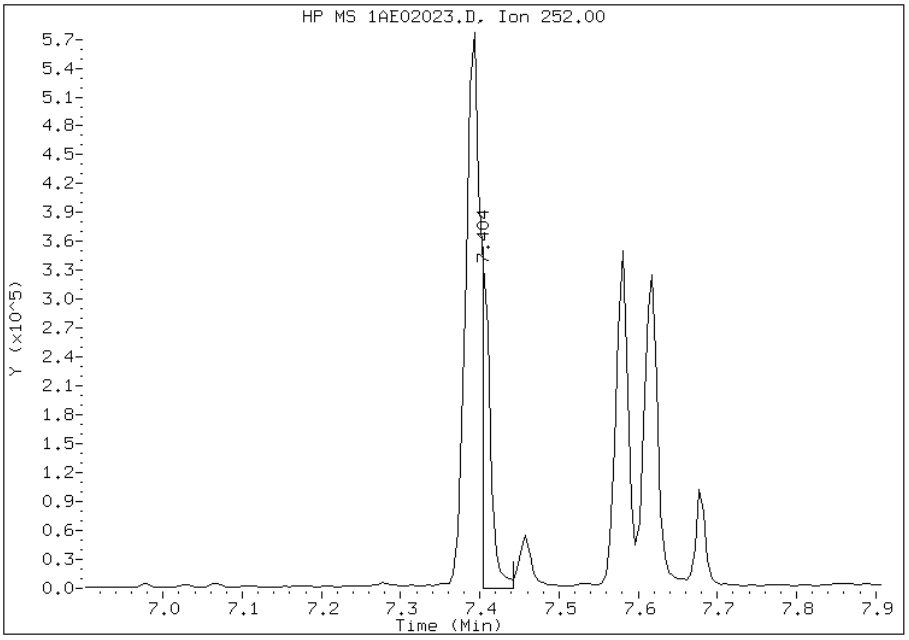
Manual Integration Results

RT: 7.40

Response: 255047

Amount: 7

Conc: 620



Manually Integrated By: cantins
Modification Date: 03-May-2013 10:53
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE02023.D
Inj. Date and Time: 02-MAY-2013 20:43
Instrument ID: BSMA5973.i
Client ID: CV1220A-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/03/2013

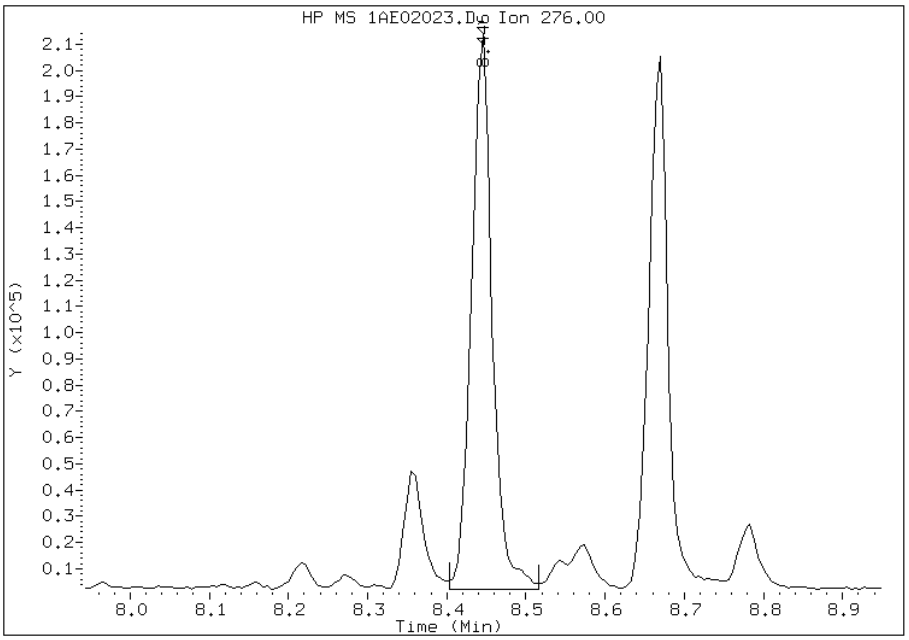
Processing Integration Results

RT: 8.45

Response: 382467

Amount: 14

Conc: 1139



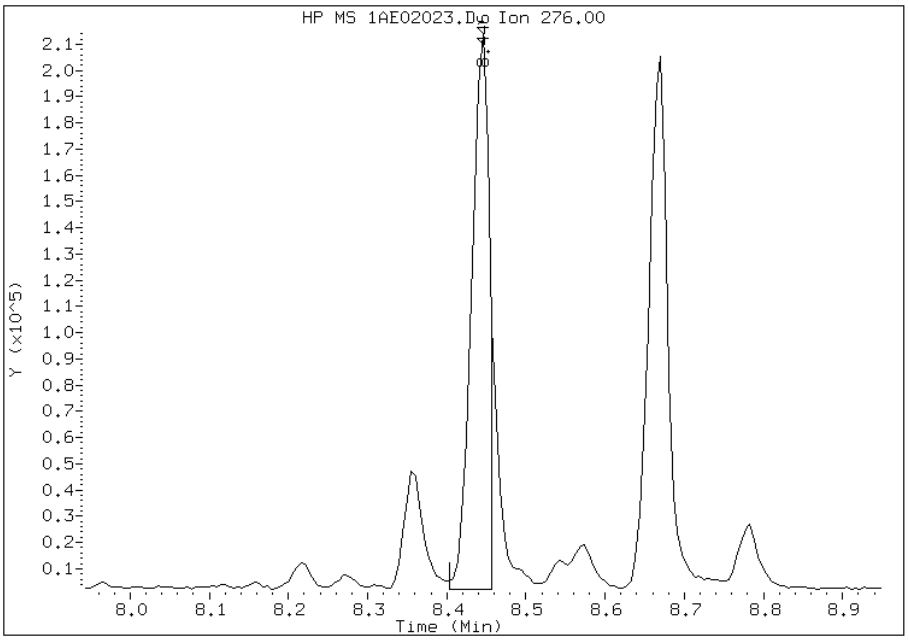
Manual Integration Results

RT: 8.45

Response: 328104

Amount: 12

Conc: 977



Manually Integrated By: cantins
Modification Date: 03-May-2013 10:54
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: CV1220B-CS | Lab Sample ID: 680-89791-27

Matrix: Solid | Lab File ID: 1AE02024.D

Analysis Method: 8270C LL | Date Collected: 04/25/2013 09:50

Extract. Method: 3546 | Date Extracted: 04/30/2013 14:42

Sample wt/vol: 14.95(g) | Date Analyzed: 05/02/2013 20:57

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 23.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137070 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	28	J	210	26
120-12-7	Anthracene	87		44	22
56-55-3	Benzo[a]anthracene	1300		42	20
50-32-8	Benzo[a]pyrene	1900		54	27
205-99-2	Benzo[b]fluoranthene	3200		64	32
191-24-2	Benzo[g,h,i]perylene	1800		100	23
207-08-9	Benzo[k]fluoranthene	1500		42	19
218-01-9	Chrysene	1700		47	24
53-70-3	Dibenz(a,h)anthracene	640		100	21
206-44-0	Fluoranthene	1000		100	21
86-73-7	Fluorene	45	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	1800		100	37
90-12-0	1-Methylnaphthalene	250		210	23
91-57-6	2-Methylnaphthalene	310		210	37
91-20-3	Naphthalene	240		210	23
85-01-8	Phenanthrene	570		42	20
129-00-0	Pyrene	1000		100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02024.D
Lab Smp Id: 680-89791-A-27-A Client Smp ID: CV1220B-CS
Inj Date : 02-MAY-2013 20:57
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89791-a-27-a
Misc Info : 680-89791-A-27-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\a-bFASTPAHi-m.m
Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 21
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	23.400	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.557	2.550	(1.000)	1217442	40.0000	
* 6 Acenaphthene-d10	164	3.588	3.581	(1.000)	654822	40.0000	
* 10 Phenanthrene-d10	188	4.544	4.532	(1.000)	969702	40.0000	
$ 14 o-Terphenyl	230	4.838	4.831	(1.065)	18119	1.14237	399.0227
* 18 Chrysene-d12	240	6.569	6.551	(1.000)	792752	40.0000	
* 23 Perylene-d12	264	7.659	7.641	(1.000)	913734	40.0000	
2 Naphthalene	128	2.568	2.560	(1.004)	21142	0.69469	242.6517
3 2-Methylnaphthalene	141	2.974	2.972	(1.163)	15415	0.88347	308.5902
4 1-Methylnaphthalene	142	3.032	3.025	(1.186)	14031	0.72582	253.5244
5 Acenaphthylene	152	3.497	3.490	(0.975)	3082	0.08053	28.1299(Q)
9 Fluorene	166	3.919	3.912	(1.092)	3123	0.12934	45.1762
11 Phenanthrene	178	4.555	4.548	(1.002)	46056	1.63957	572.6897
12 Anthracene	178	4.587	4.580	(1.009)	7289	0.24956	87.1681
13 Carbazole	167	4.726	4.713	(1.040)	5744	0.20386	71.2057

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	5.420	5.413	(1.193)	93440	2.87995	1005.9482
16 Pyrene	202	5.586	5.579	(0.850)	89188	2.94894	1030.0456
17 Benzo(a)anthracene	228	6.558	6.540	(0.998)	93458	3.60996	1260.9328
19 Chrysene	228	6.585	6.572	(1.002)	129463	4.92913	1721.7120
20 Benzo(b)fluoranthene	252	7.381	7.363	(0.964)	252873	9.11569	3184.0470(M)
21 Benzo(k)fluoranthene	252	7.391	7.384	(0.965)	132981	4.16940	1456.3442(M)
22 Benzo(a)pyrene	252	7.605	7.593	(0.993)	150992	5.47139	1911.1192
24 Indeno(1,2,3-cd)pyrene	276	8.428	8.405	(1.100)	133030	5.10536	1783.2654(M)
25 Dibenzo(a,h)anthracene	278	8.449	8.431	(1.103)	44591	1.83921	642.4220
26 Benzo(g,h,i)perylene	276	8.647	8.624	(1.129)	147558	5.05982	1767.3601

QC Flag Legend

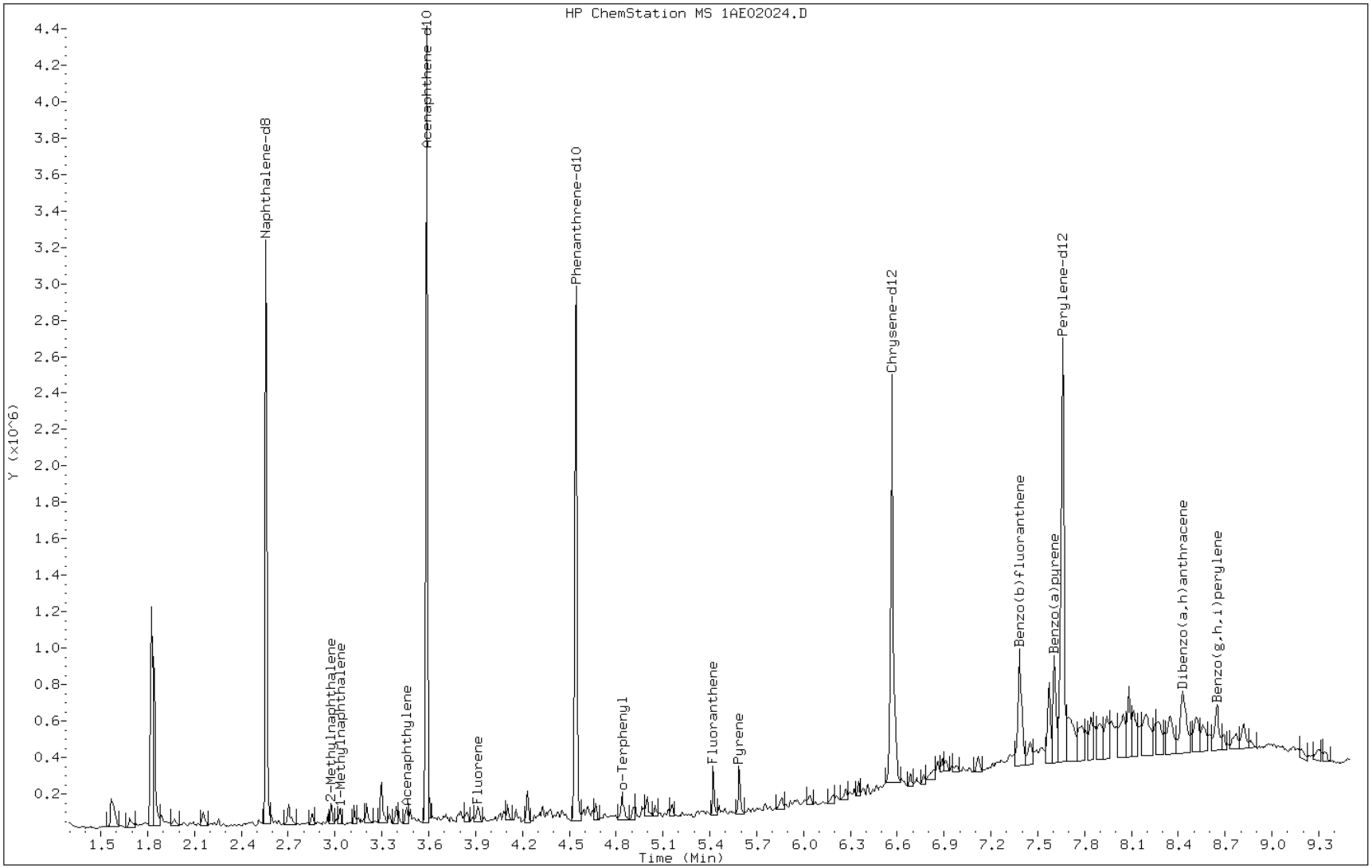
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE02024.D

Date: 02-MAY-2013 20:57

Client ID: CV1220B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-27-a Operator: SCC



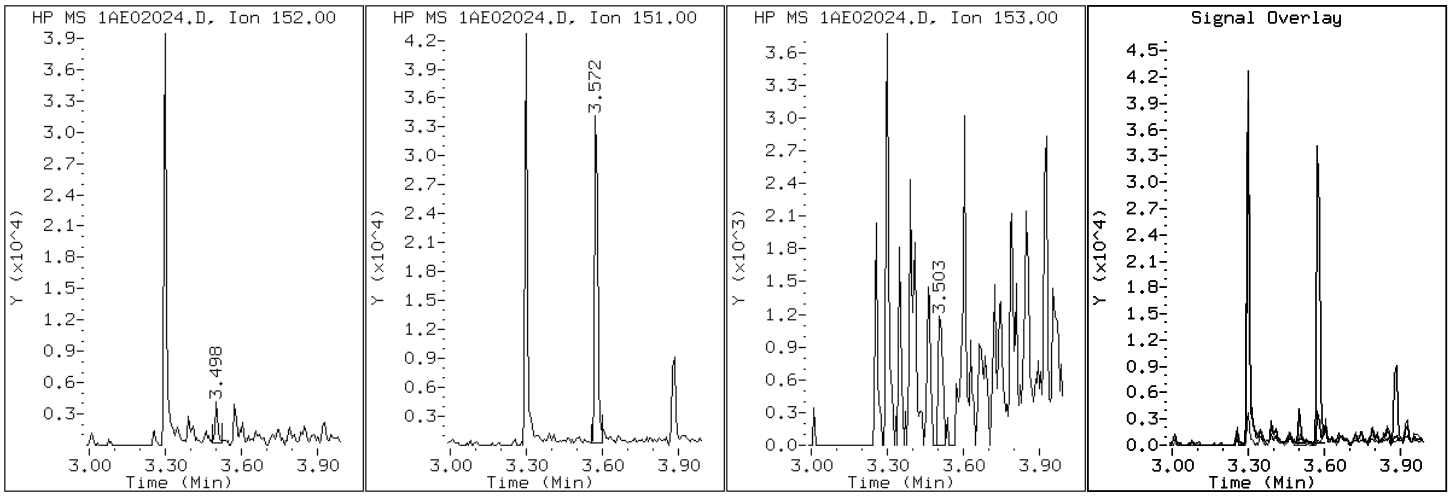
Data File: 1AE02024.D

Date: 02-MAY-2013 20:57

Client ID: CV1220B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-27-a Operator: SCC

5 Acenaphthylene



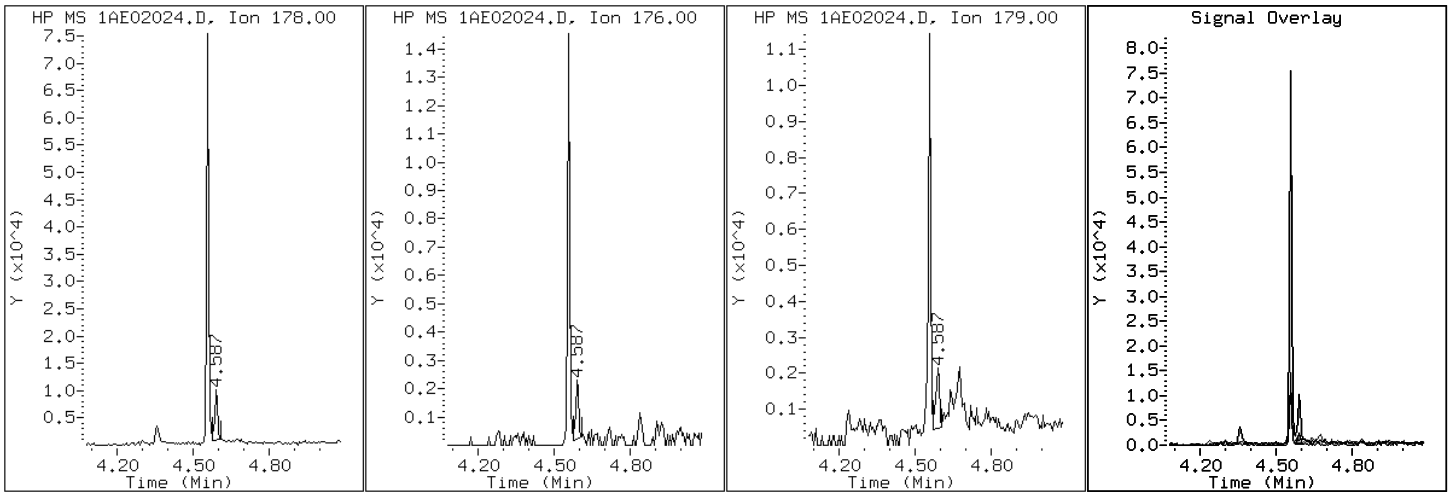
Data File: 1AE02024.D

Date: 02-MAY-2013 20:57

Client ID: CV1220B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-27-a Operator: SCC

12 Anthracene



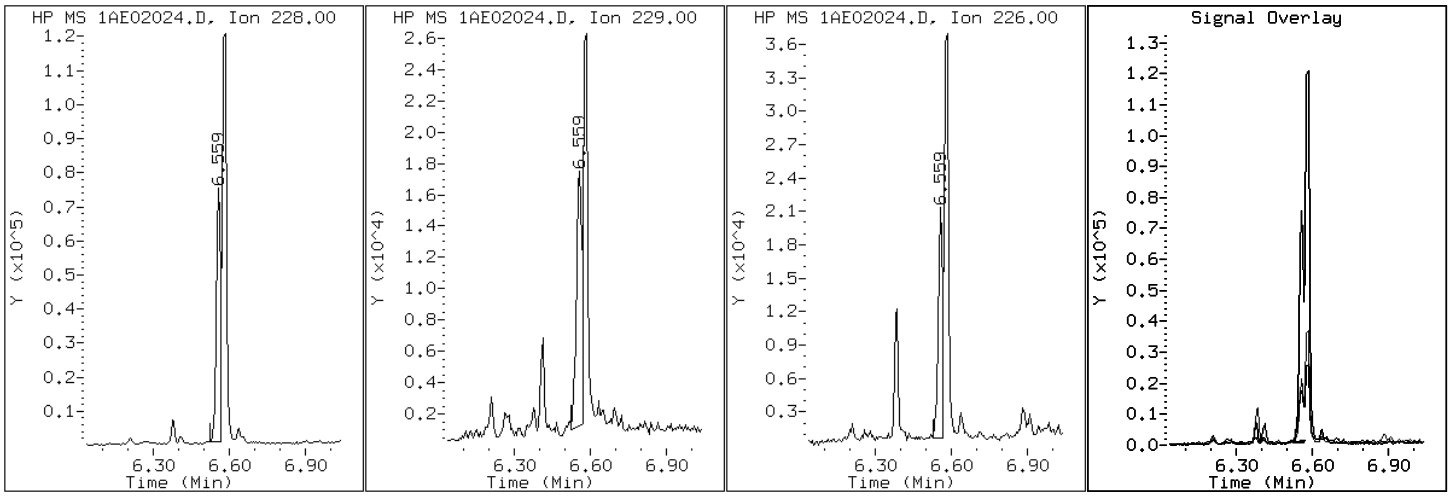
Data File: 1AE02024.D

Date: 02-MAY-2013 20:57

Client ID: CV1220B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-27-a Operator: SCC

17 Benzo(a)anthracene



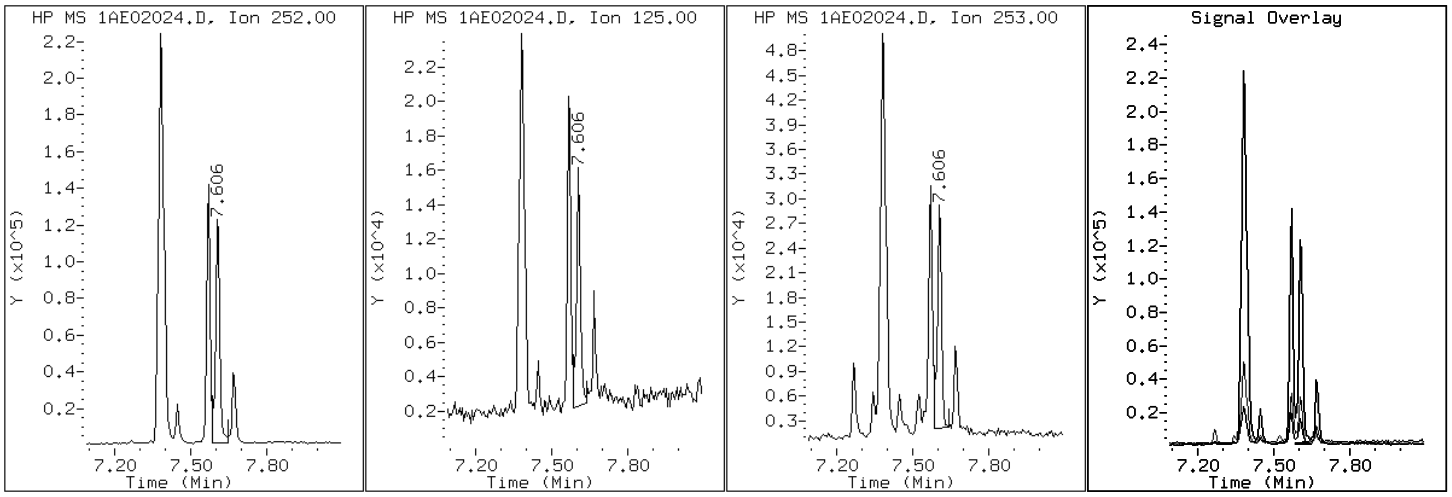
Data File: 1AE02024.D

Date: 02-MAY-2013 20:57

Client ID: CV1220B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-27-a Operator: SCC

22 Benzo(a)pyrene



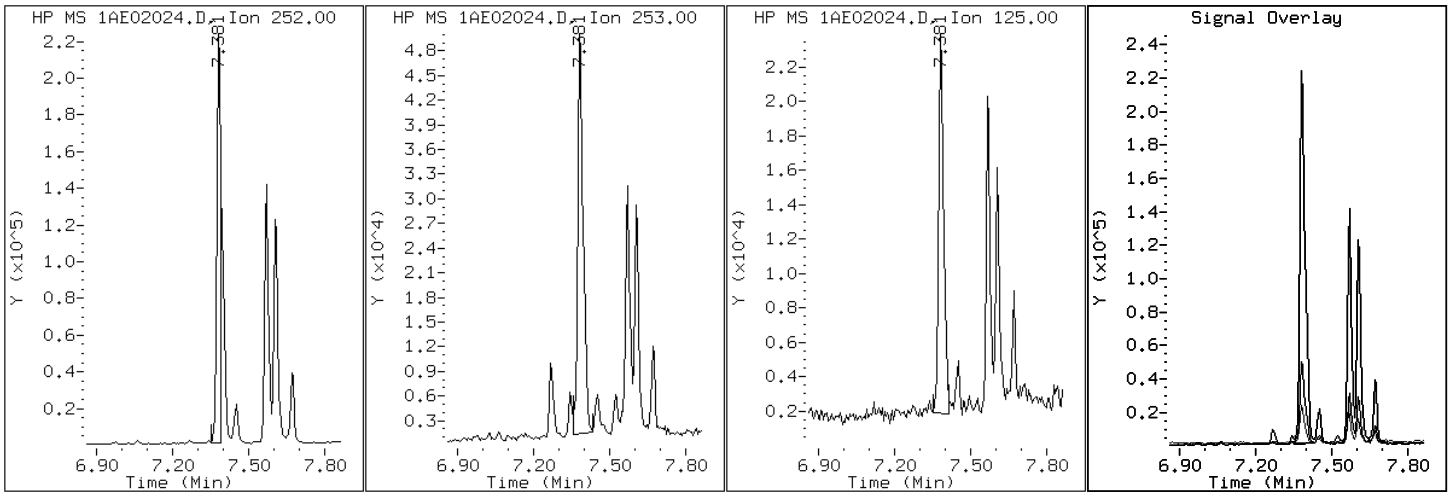
Data File: 1AE02024.D

Date: 02-MAY-2013 20:57

Client ID: CV1220B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-27-a Operator: SCC

20 Benzo(b)fluoranthene



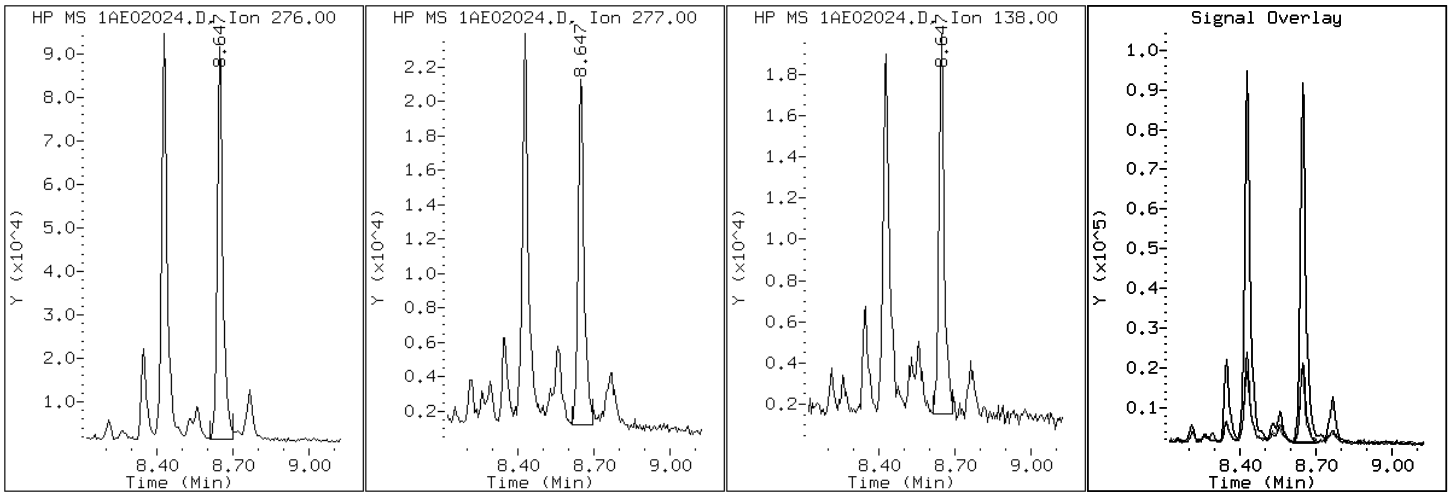
Data File: 1AE02024.D

Date: 02-MAY-2013 20:57

Client ID: CV1220B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-27-a Operator: SCC

26 Benzo(g,h,i)perylene



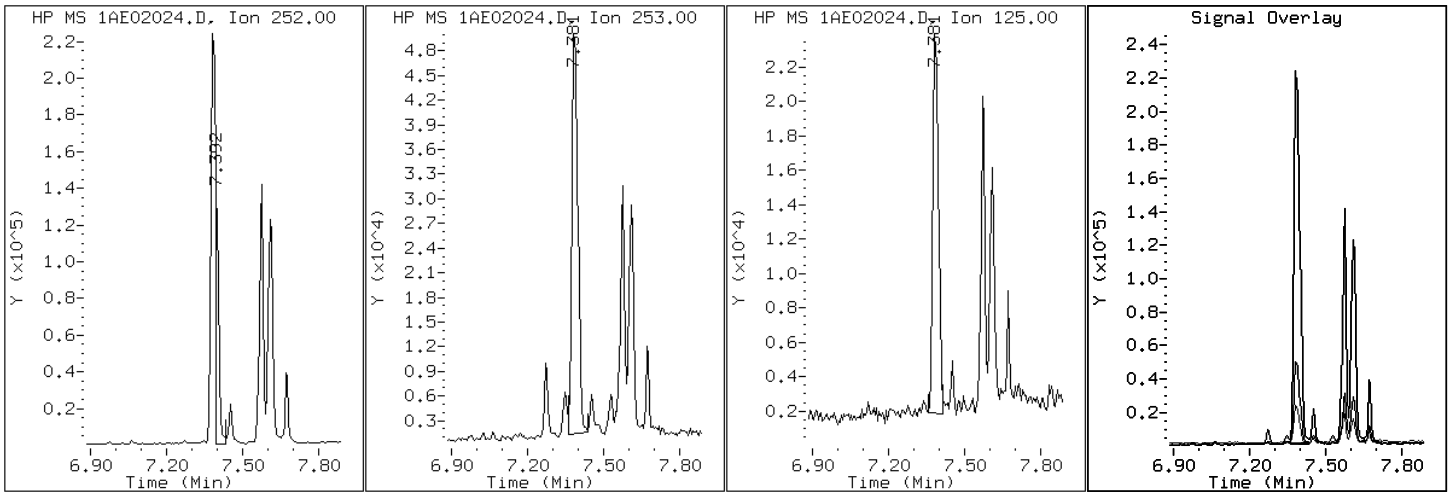
Data File: 1AE02024.D

Date: 02-MAY-2013 20:57

Client ID: CV1220B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-27-a Operator: SCC

21 Benzo(k)fluoranthene



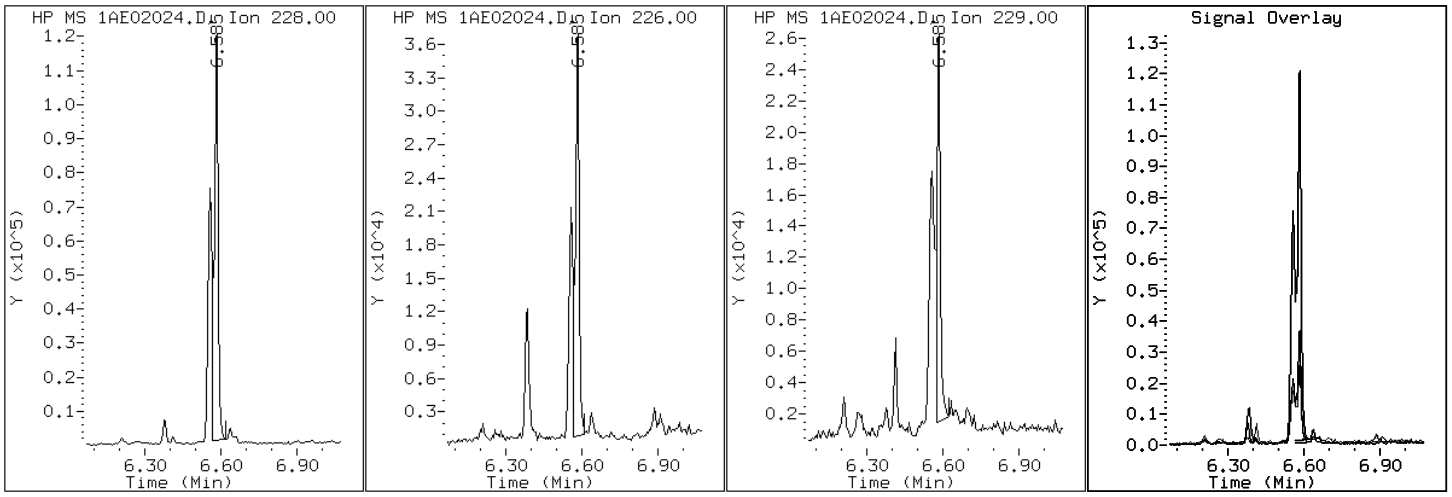
Data File: 1AE02024.D

Date: 02-MAY-2013 20:57

Client ID: CV1220B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-27-a Operator: SCC

19 Chrysene



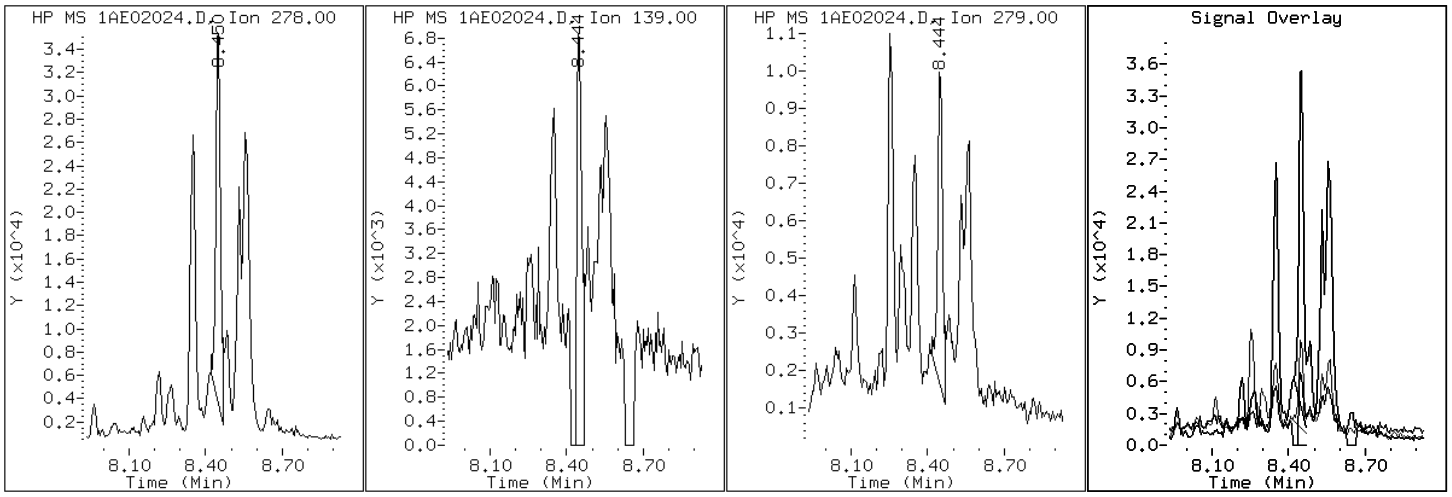
Data File: 1AE02024.D

Date: 02-MAY-2013 20:57

Client ID: CV1220B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-27-a Operator: SCC

25 Dibenzo(a,h)anthracene



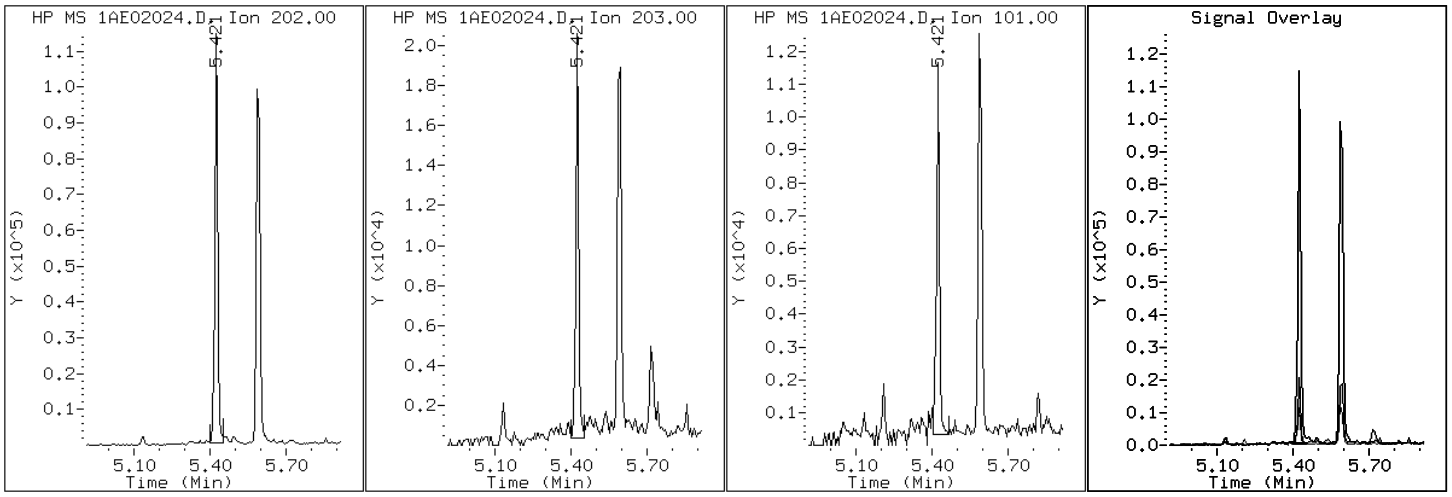
Data File: 1AE02024.D

Date: 02-MAY-2013 20:57

Client ID: CV1220B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-27-a Operator: SCC

15 Fluoranthene



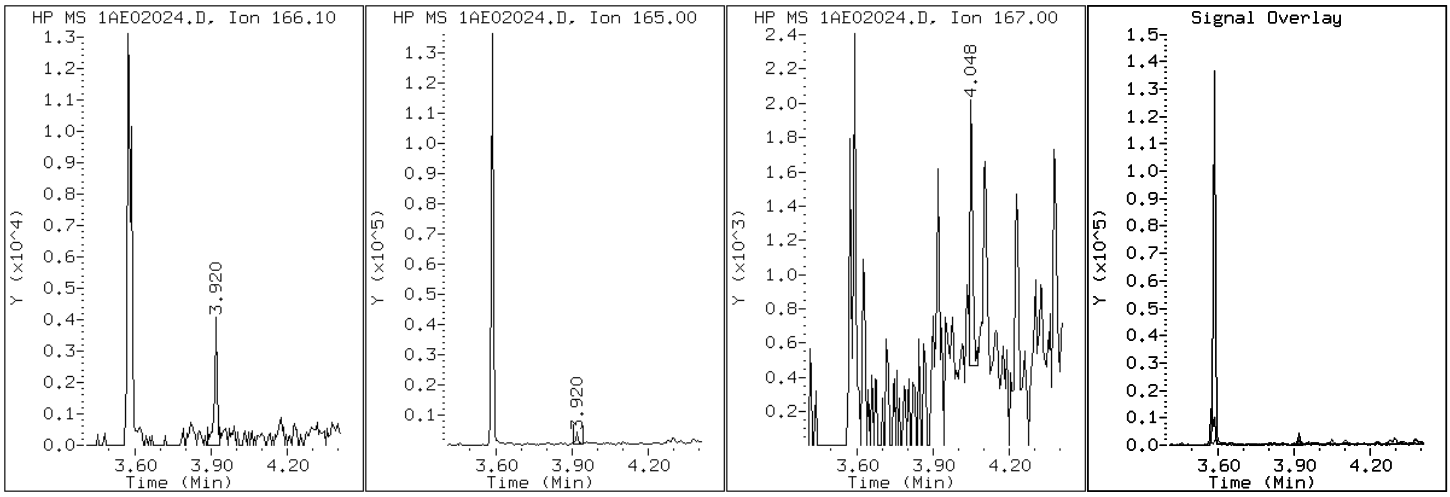
Data File: 1AE02024.D

Date: 02-MAY-2013 20:57

Client ID: CV1220B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-27-a Operator: SCC

9 Fluorene



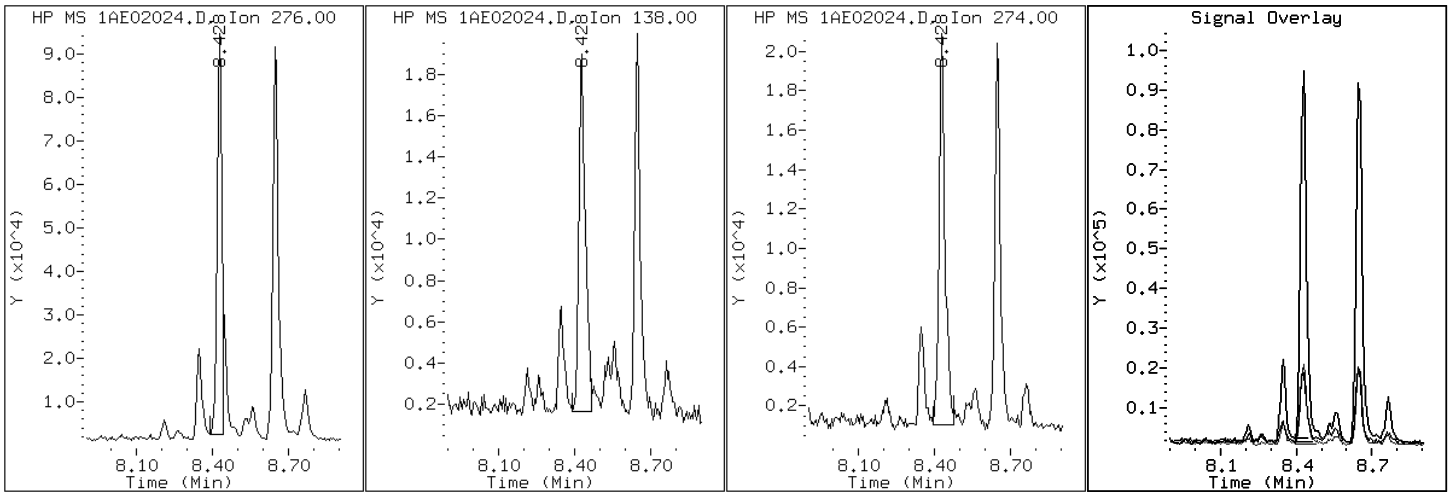
Data File: 1AE02024.D

Date: 02-MAY-2013 20:57

Client ID: CV1220B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-27-a Operator: SCC

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



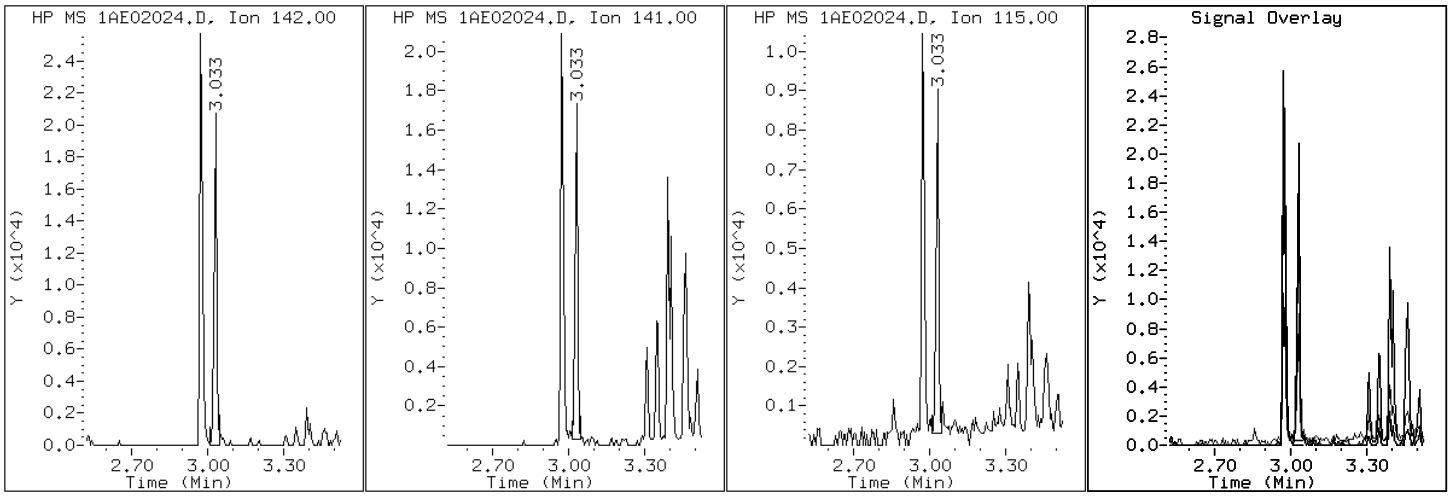
Data File: 1AE02024.D

Date: 02-MAY-2013 20:57

Client ID: CV1220B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-27-a Operator: SCC

4 1-Methylnaphthalene



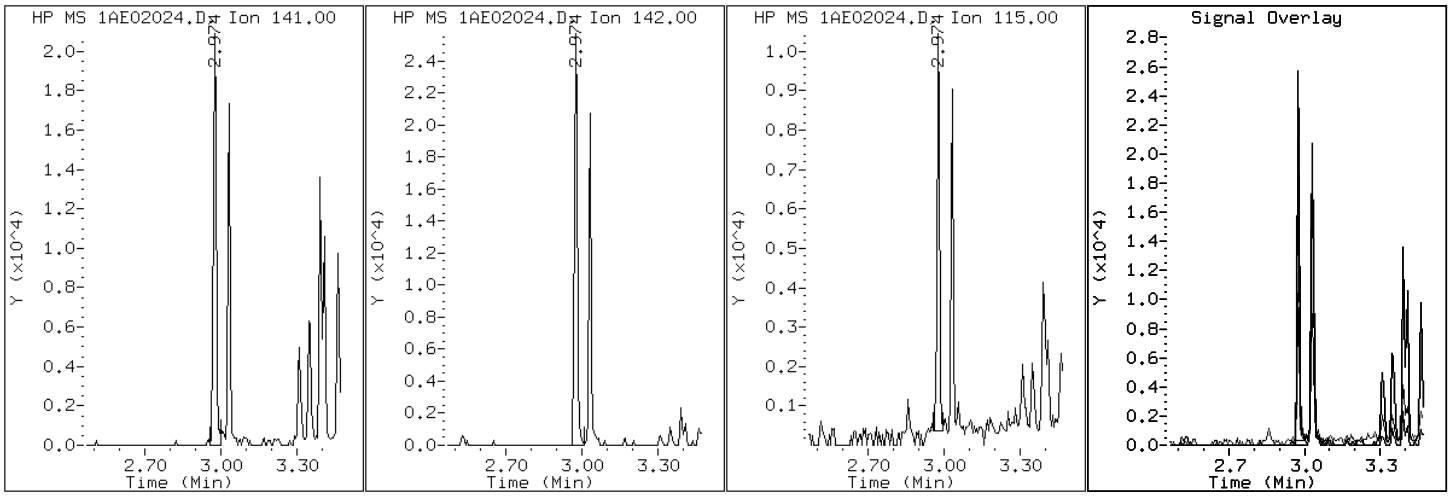
Data File: 1AE02024.D

Date: 02-MAY-2013 20:57

Client ID: CV1220B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-27-a Operator: SCC

3 2-Methylnaphthalene



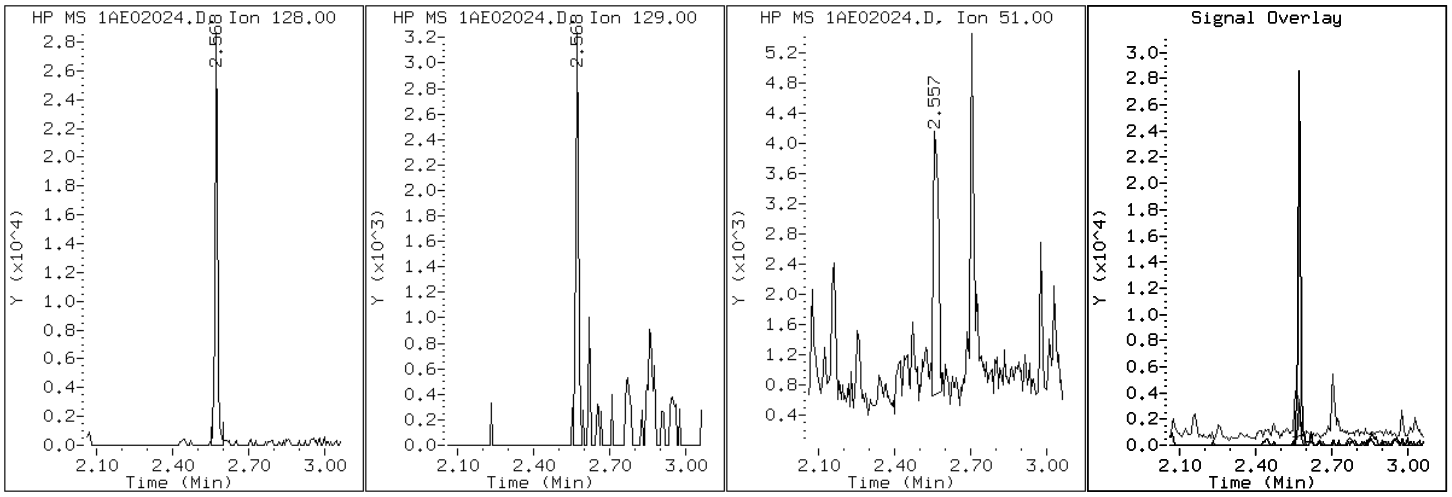
Data File: 1AE02024.D

Date: 02-MAY-2013 20:57

Client ID: CV1220B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-27-a Operator: SCC

2 Naphthalene



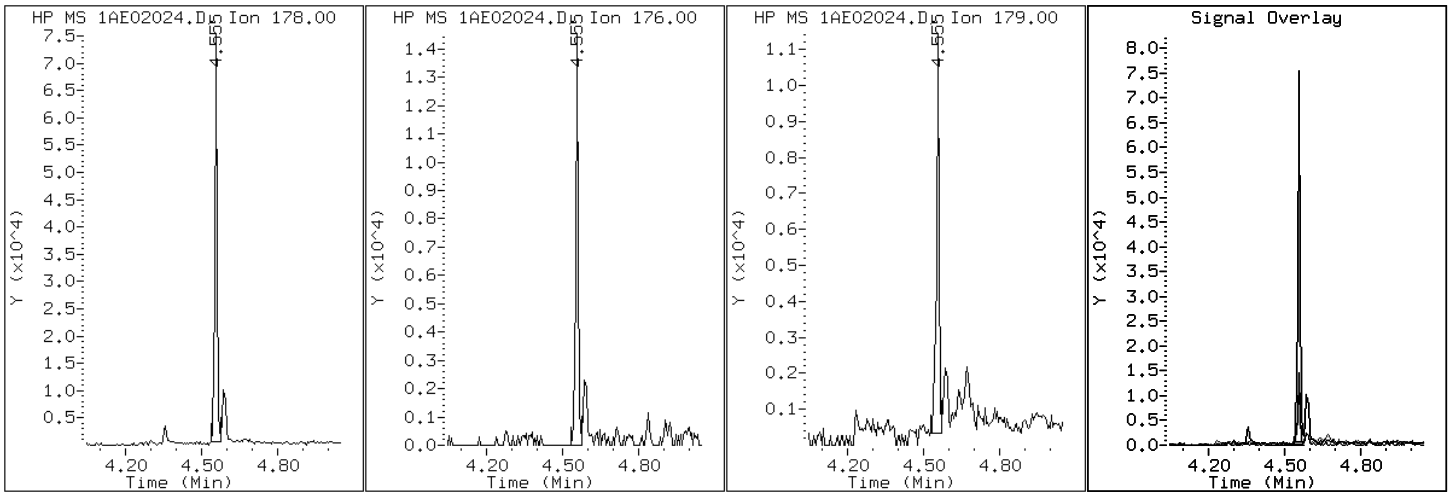
Data File: 1AE02024.D

Date: 02-MAY-2013 20:57

Client ID: CV1220B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-27-a Operator: SCC

11 Phenanthrene



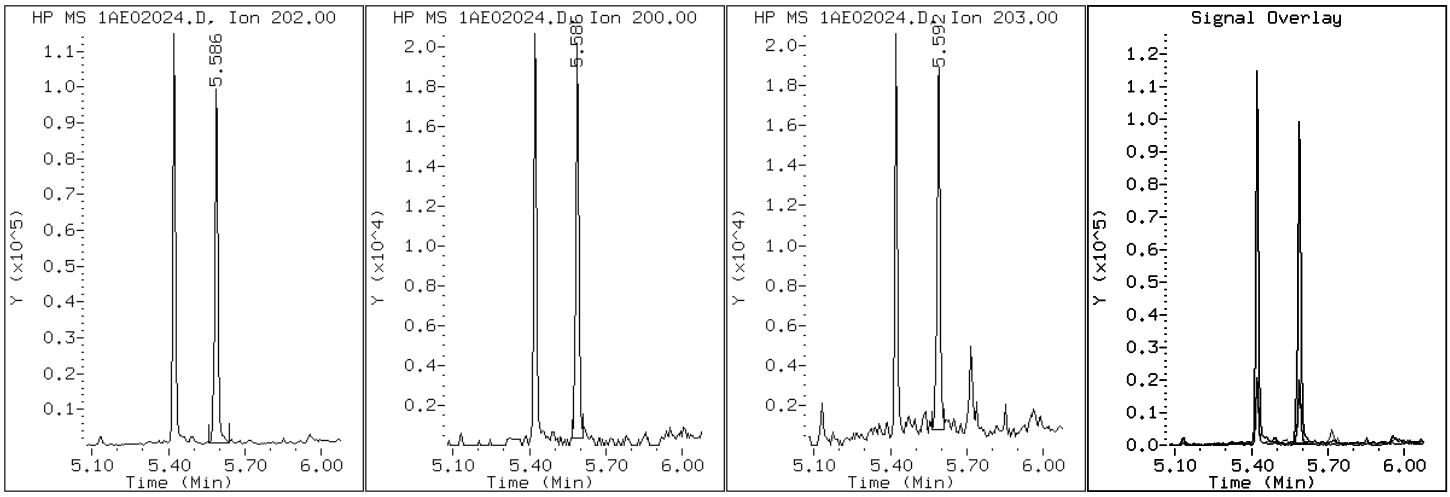
Data File: 1AE02024.D

Date: 02-MAY-2013 20:57

Client ID: CV1220B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-27-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE02024.D
Inj. Date and Time: 02-MAY-2013 20:57
Instrument ID: BSMA5973.i
Client ID: CV1220B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/03/2013

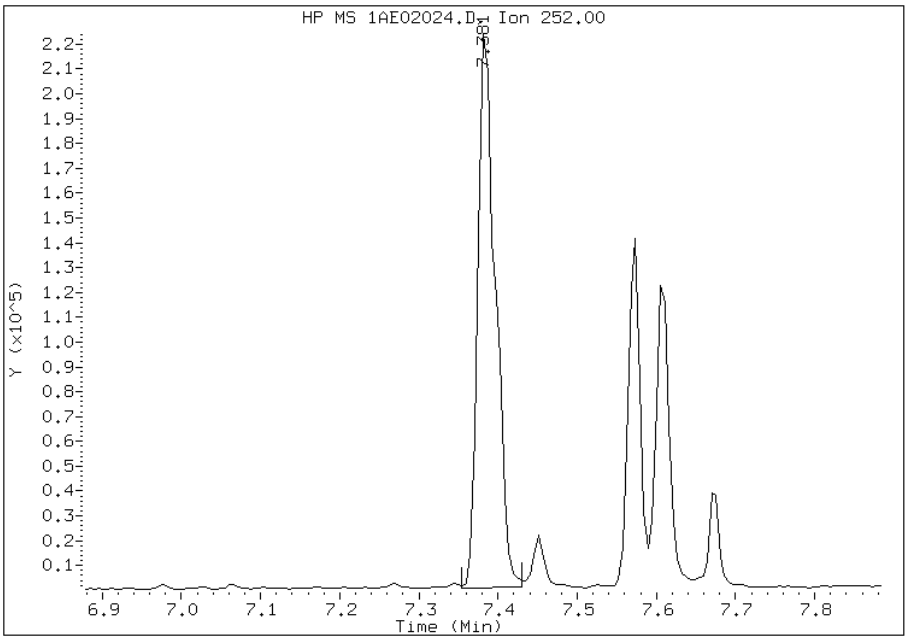
Processing Integration Results

RT: 7.38

Response: 340226

Amount: 12

Conc: 4284



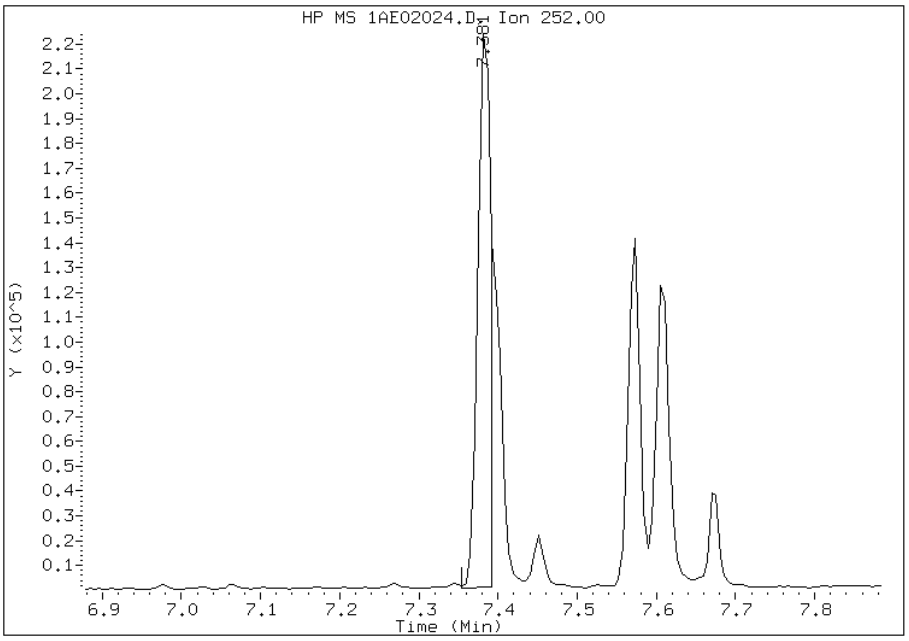
Manual Integration Results

RT: 7.38

Response: 252873

Amount: 9

Conc: 3184



Manually Integrated By: cantins
Modification Date: 03-May-2013 11:55
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE02024.D
Inj. Date and Time: 02-MAY-2013 20:57
Instrument ID: BSMA5973.i
Client ID: CV1220B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/03/2013

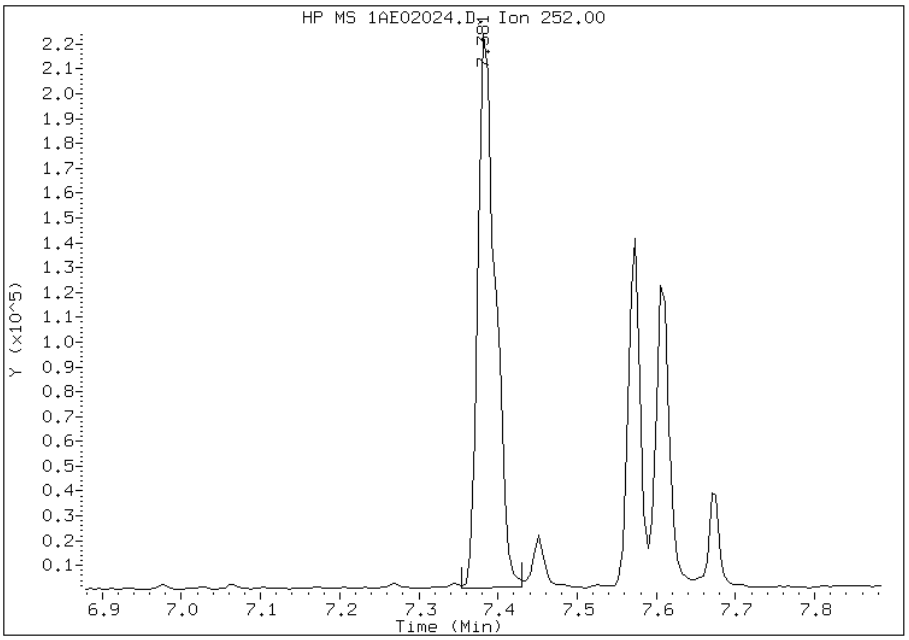
Processing Integration Results

RT: 7.38

Response: 340226

Amount: 11

Conc: 3726



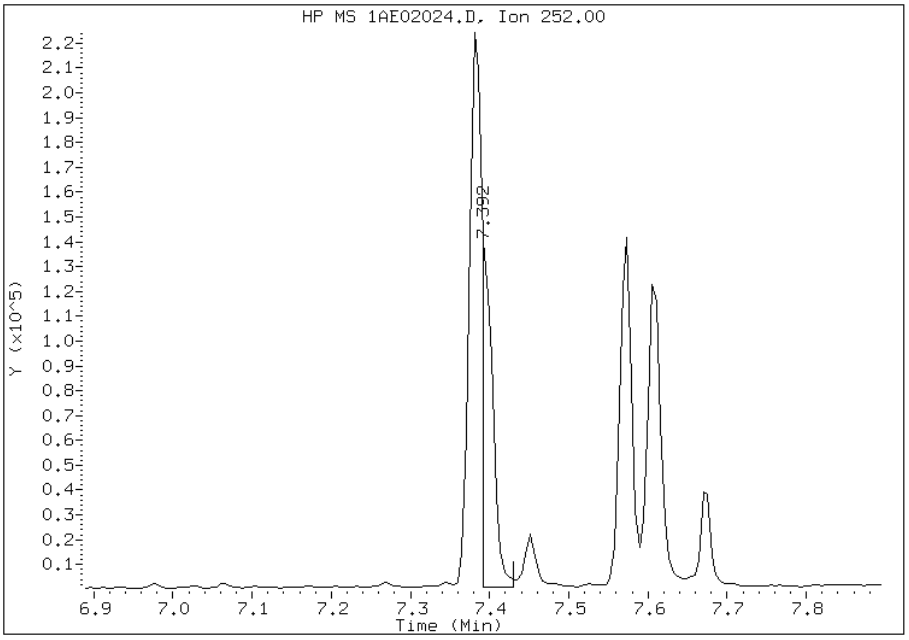
Manual Integration Results

RT: 7.39

Response: 132981

Amount: 4

Conc: 1456



Manually Integrated By: cantins
Modification Date: 03-May-2013 11:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE02024.D
Inj. Date and Time: 02-MAY-2013 20:57
Instrument ID: BSMA5973.i
Client ID: CV1220B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/03/2013

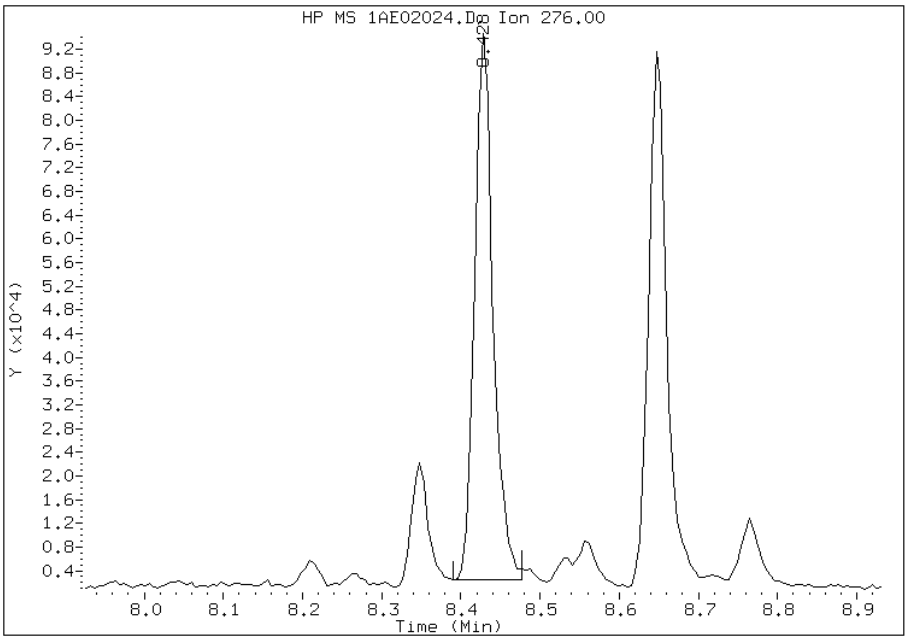
Processing Integration Results

RT: 8.43

Response: 147844

Amount: 6

Conc: 1982



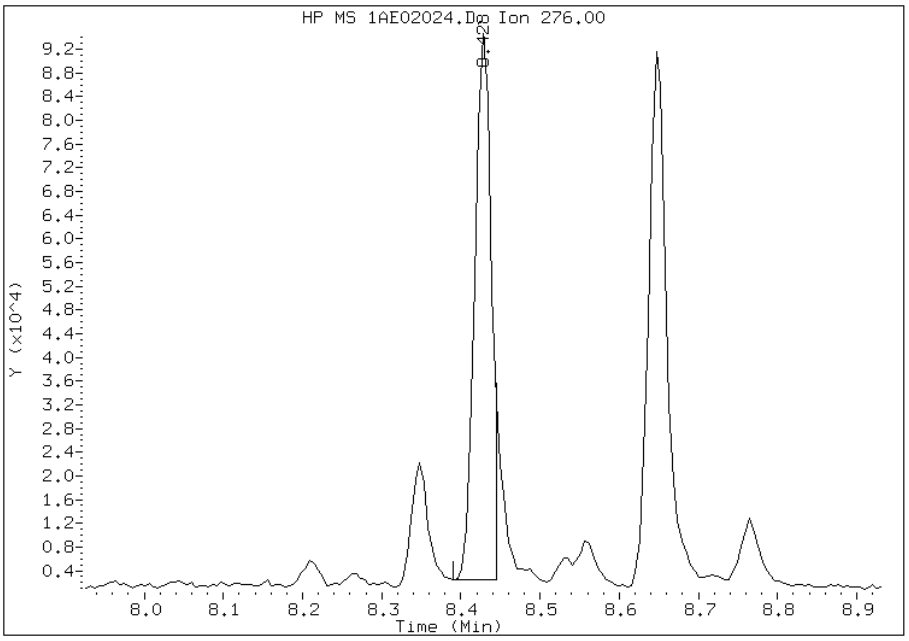
Manual Integration Results

RT: 8.43

Response: 133030

Amount: 5

Conc: 1783



Manually Integrated By: cantins
Modification Date: 03-May-2013 11:56
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: CV1227A-CS | Lab Sample ID: 680-89791-28

Matrix: Solid | Lab File ID: 1AE02025.D

Analysis Method: 8270C LL | Date Collected: 04/25/2013 10:25

Extract. Method: 3546 | Date Extracted: 04/30/2013 14:42

Sample wt/vol: 14.97(g) | Date Analyzed: 05/02/2013 21:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 23.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137070 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	15	J	53	6.6
120-12-7	Anthracene	36		11	5.5
56-55-3	Benzo[a]anthracene	110		11	5.1
50-32-8	Benzo[a]pyrene	92		14	6.8
205-99-2	Benzo[b]fluoranthene	150		16	8.0
191-24-2	Benzo[g,h,i]perylene	73		26	5.8
207-08-9	Benzo[k]fluoranthene	57		11	4.7
218-01-9	Chrysene	160		12	5.9
53-70-3	Dibenz(a,h)anthracene	28		26	5.4
206-44-0	Fluoranthene	150		26	5.3
86-73-7	Fluorene	5.8	J	26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	65		26	9.3
90-12-0	1-Methylnaphthalene	73		53	5.8
91-57-6	2-Methylnaphthalene	120		53	9.3
91-20-3	Naphthalene	86		53	5.8
85-01-8	Phenanthrene	160		11	5.1
129-00-0	Pyrene	140		26	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	45		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02025.D
Lab Smp Id: 680-89791-A-28-A Client Smp ID: CV1227A-CS
Inj Date : 02-MAY-2013 21:12
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89791-a-28-a
Misc Info : 680-89791-A-28-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\a-bFASTPAHi-m.m
Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 22
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/Ws * 100/(100 - M) * A * B * C * D * GPC * 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	23.820	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.559	2.550	(1.000)	1157720	40.0000	
* 6 Acenaphthene-d10	164	3.590	3.581	(1.000)	632082	40.0000	
* 10 Phenanthrene-d10	188	4.541	4.532	(1.000)	899833	40.0000	
$ 14 o-Terphenyl	230	4.840	4.831	(1.066)	65829	4.47267	392.1956
* 18 Chrysene-d12	240	6.571	6.551	(1.000)	817469	40.0000	
* 23 Perylene-d12	264	7.660	7.641	(1.000)	938253	40.0000	
2 Naphthalene	128	2.569	2.560	(1.004)	28481	0.98412	86.2944
3 2-Methylnaphthalene	141	2.975	2.972	(1.163)	22039	1.32827	116.4718
4 1-Methylnaphthalene	142	3.029	3.025	(1.184)	15245	0.82930	72.7192
5 Acenaphthylene	152	3.499	3.490	(0.975)	6484	0.17552	15.3912
9 Fluorene	166	3.921	3.912	(1.092)	1553	0.06663	5.8425(Q)
11 Phenanthrene	178	4.557	4.548	(1.004)	46804	1.79557	157.4484
12 Anthracene	178	4.589	4.580	(1.011)	11123	0.41039	35.9860
13 Carbazole	167	4.728	4.713	(1.041)	8751	0.33469	29.3481

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	5.422	5.413	(1.194)	51499	1.71052	149.9904
16 Pyrene	202	5.588	5.579	(0.850)	48112	1.54269	135.2742
17 Benzo(a)anthracene	228	6.560	6.540	(0.998)	34093	1.27708	111.9830
19 Chrysene	228	6.581	6.572	(1.002)	50622	1.86909	163.8950
20 Benzo(b)fluoranthene	252	7.383	7.363	(0.964)	49478	1.73700	152.3122(M)
21 Benzo(k)fluoranthene	252	7.393	7.384	(0.965)	21306	0.65056	57.0455(QM)
22 Benzo(a)pyrene	252	7.607	7.593	(0.993)	29825	1.05250	92.2911
24 Indeno(1,2,3-cd)pyrene	276	8.435	8.405	(1.101)	19886	0.74323	65.1717(M)
25 Dibenzo(a,h)anthracene	278	8.456	8.431	(1.104)	7982	0.32062	28.1145
26 Benzo(g,h,i)perylene	276	8.659	8.624	(1.130)	24769	0.82714	72.5297(M)

QC Flag Legend

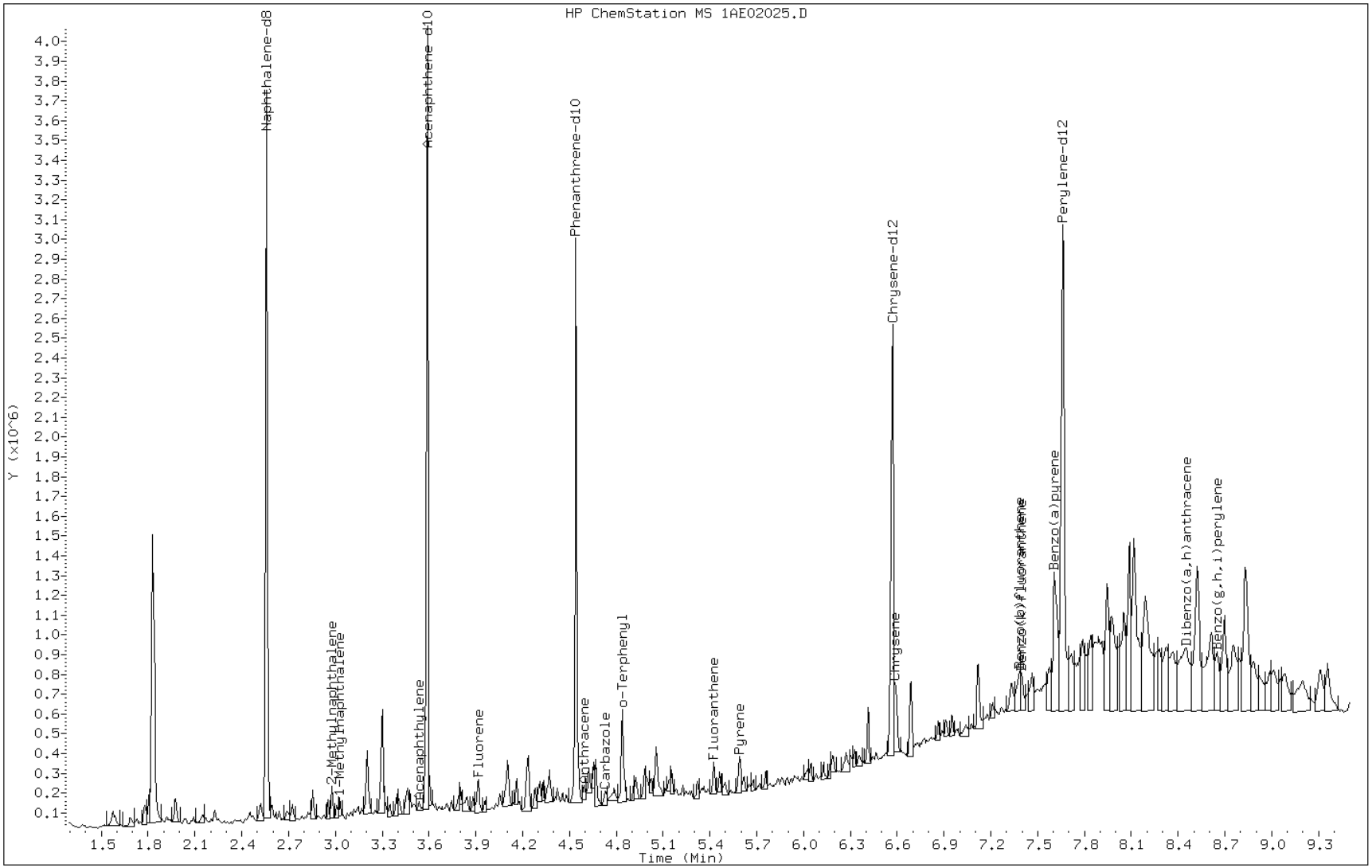
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE02025.D

Date: 02-MAY-2013 21:12

Client ID: CV1227A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-28-a Operator: SCC



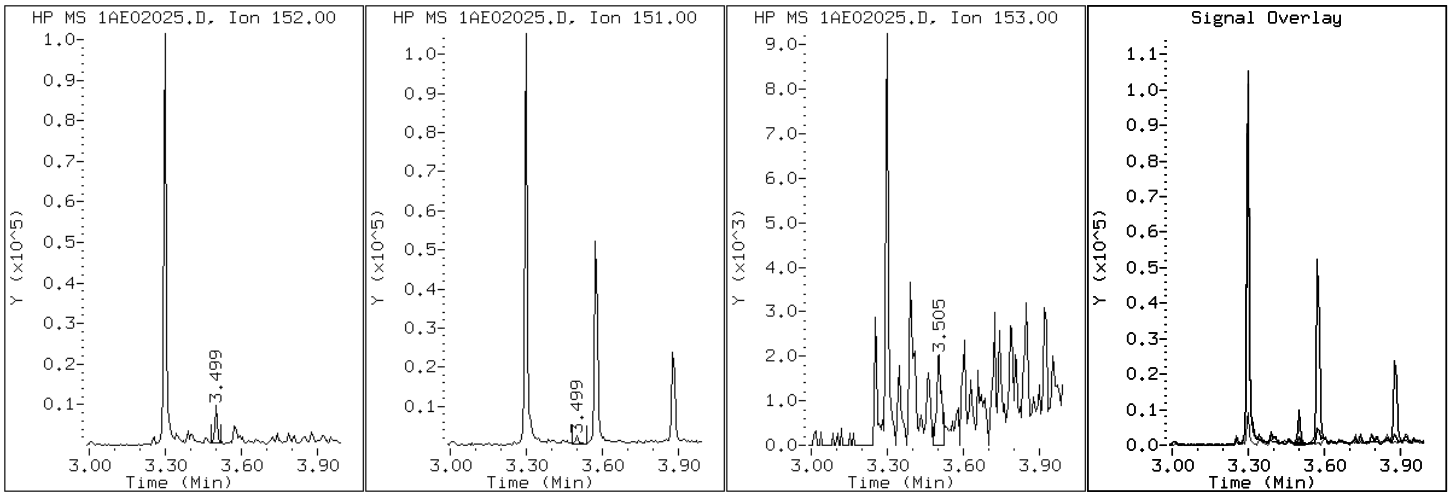
Data File: 1AE02025.D

Date: 02-MAY-2013 21:12

Client ID: CV1227A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-28-a Operator: SCC

5 Acenaphthylene



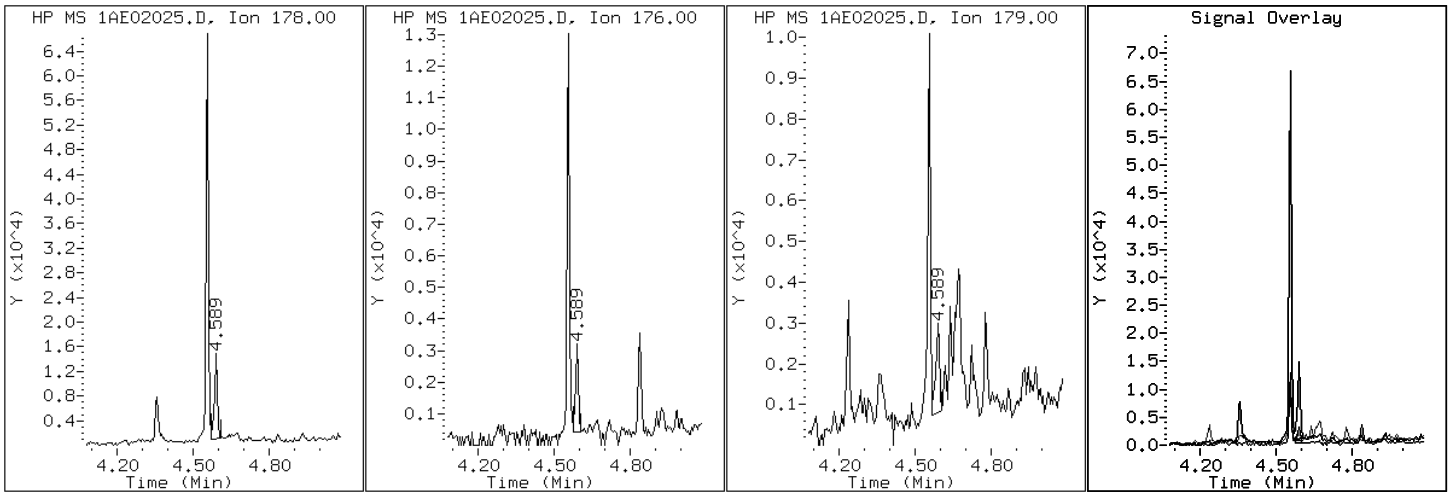
Data File: 1AE02025.D

Date: 02-MAY-2013 21:12

Client ID: CV1227A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-28-a Operator: SCC

12 Anthracene



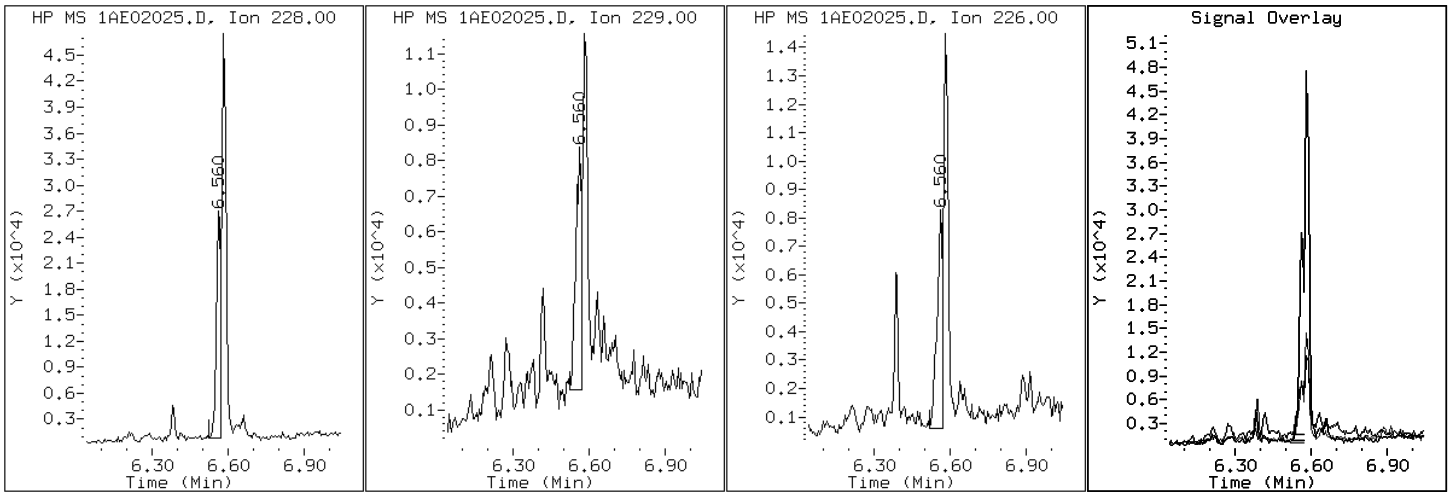
Data File: 1AE02025.D

Date: 02-MAY-2013 21:12

Client ID: CV1227A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-28-a Operator: SCC

17 Benzo(a)anthracene



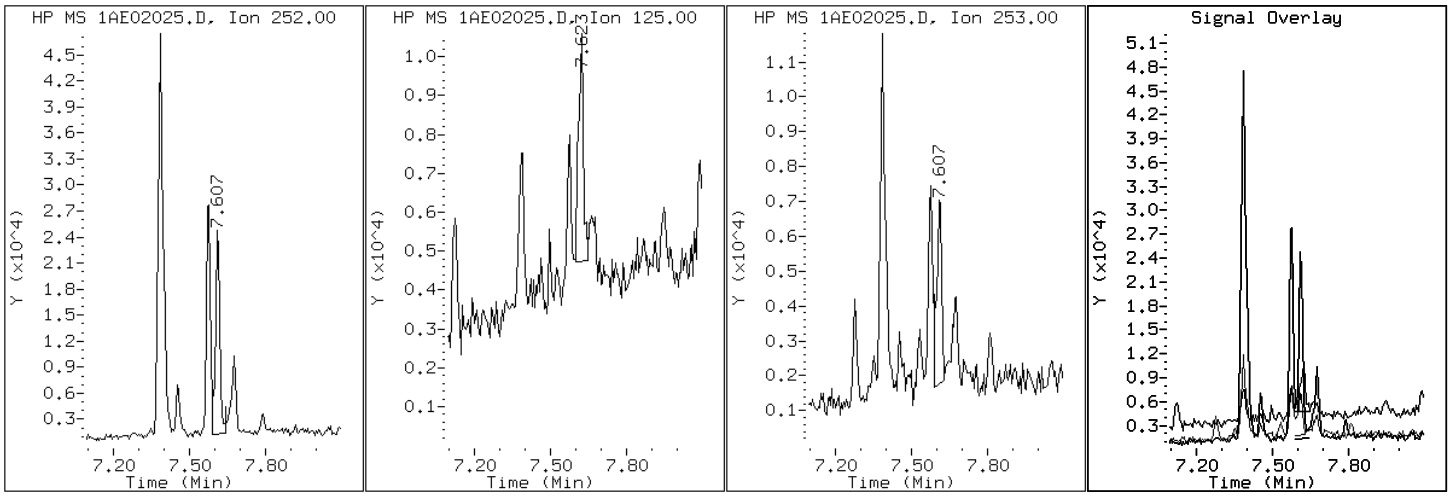
Data File: 1AE02025.D

Date: 02-MAY-2013 21:12

Client ID: CV1227A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-28-a Operator: SCC

22 Benzo(a)pyrene



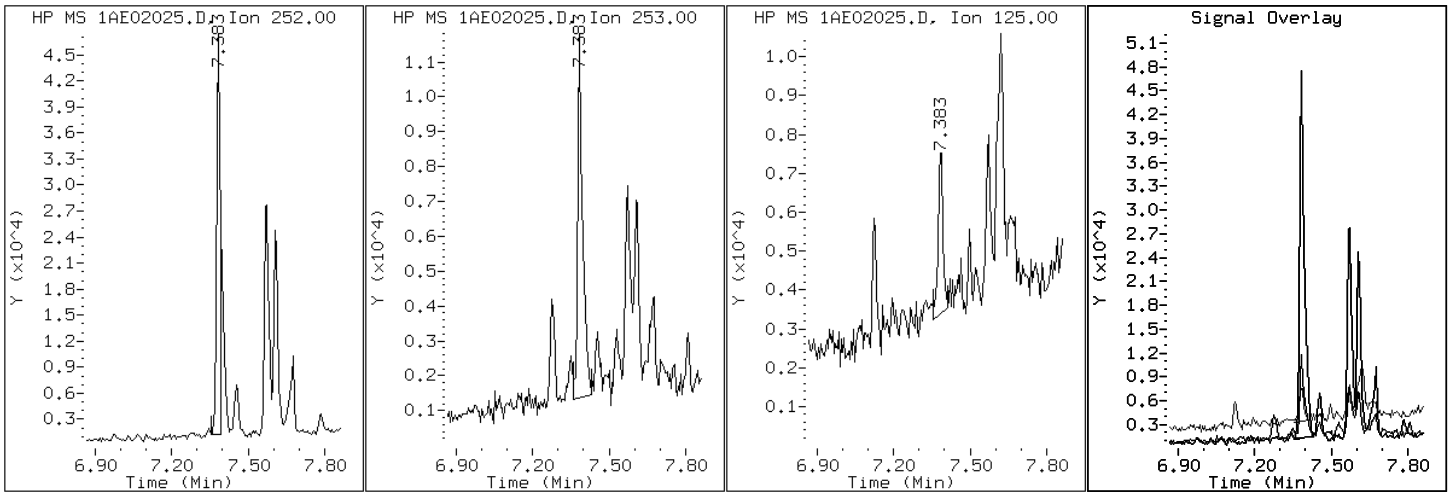
Data File: 1AE02025.D

Date: 02-MAY-2013 21:12

Client ID: CV1227A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-28-a Operator: SCC

20 Benzo(b)fluoranthene



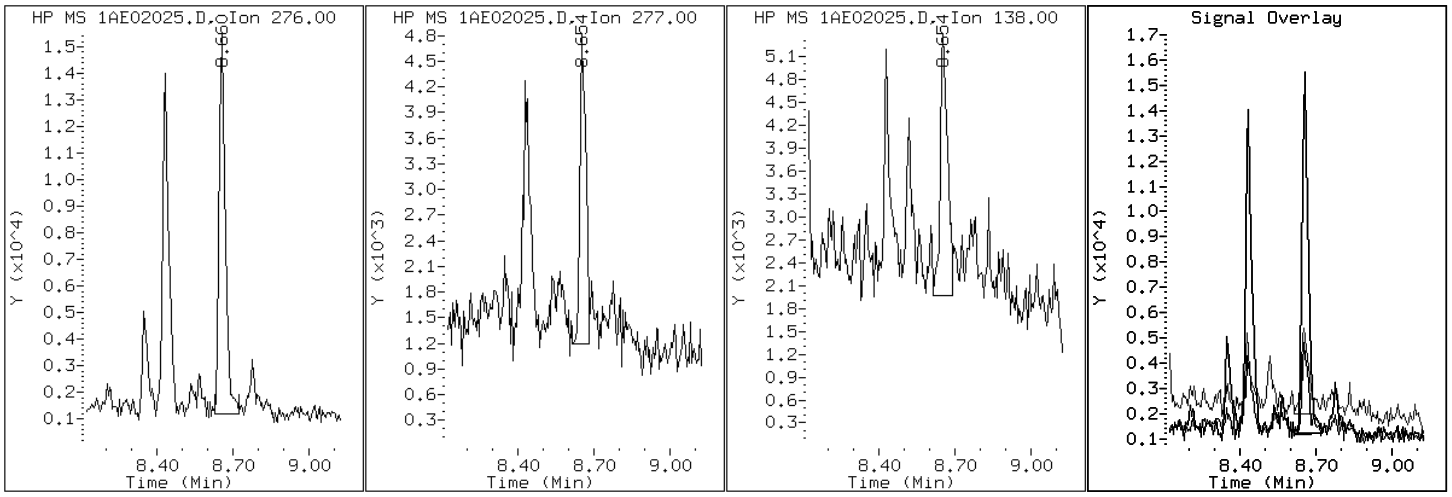
Data File: 1AE02025.D

Date: 02-MAY-2013 21:12

Client ID: CV1227A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-28-a Operator: SCC

26 Benzo(g,h,i)perylene



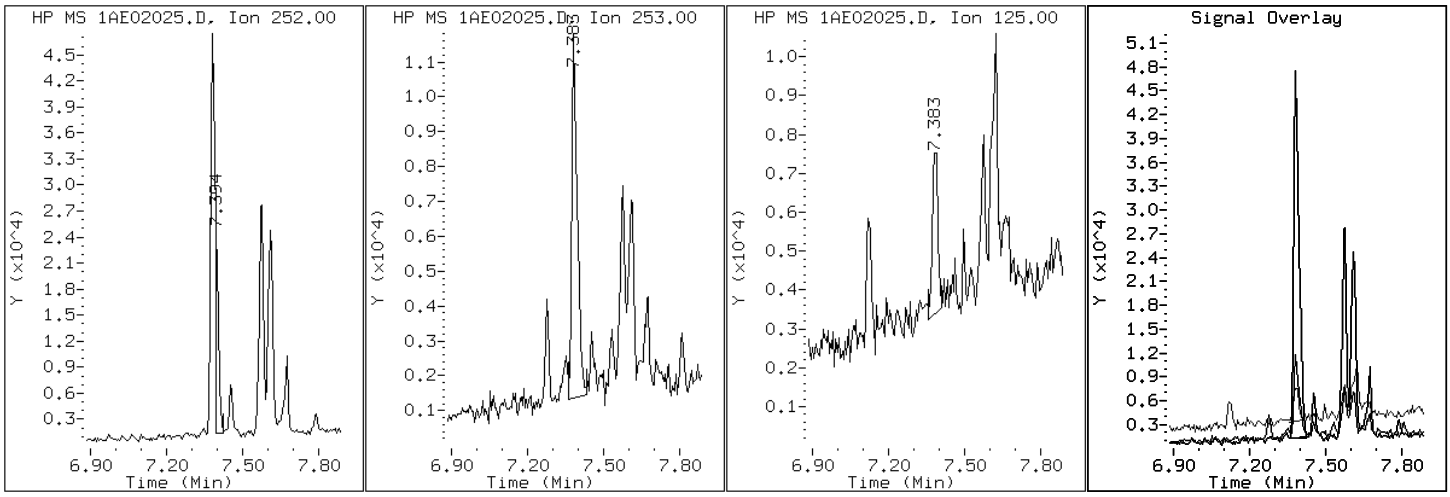
Data File: 1AE02025.D

Date: 02-MAY-2013 21:12

Client ID: CV1227A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-28-a Operator: SCC

21 Benzo(k)fluoranthene



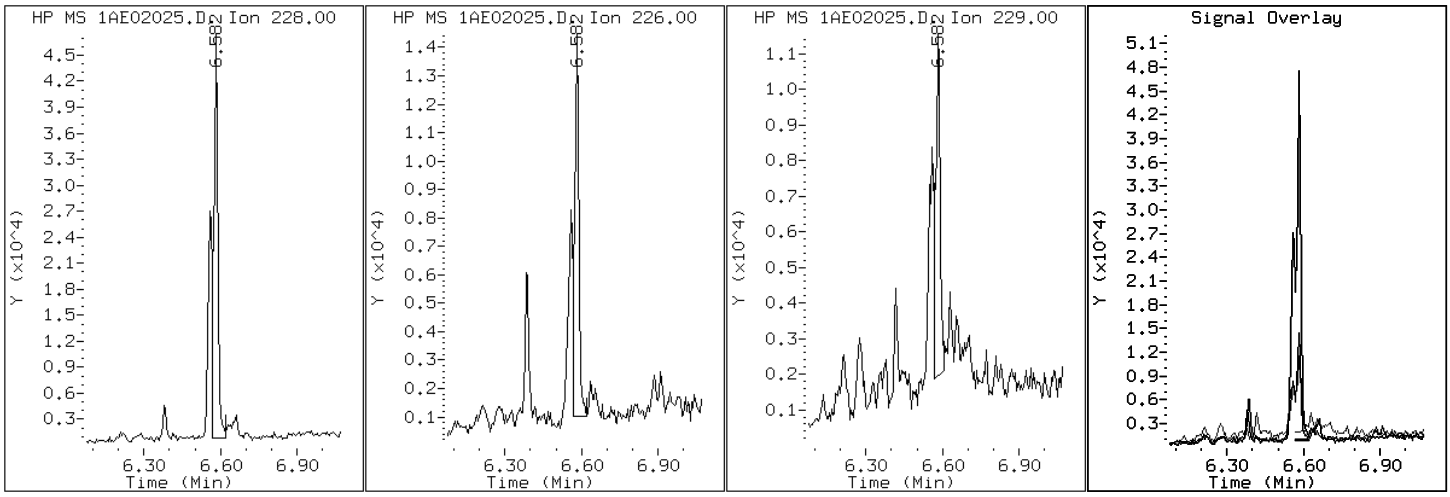
Data File: 1AE02025.D

Date: 02-MAY-2013 21:12

Client ID: CV1227A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-28-a Operator: SCC

19 Chrysene



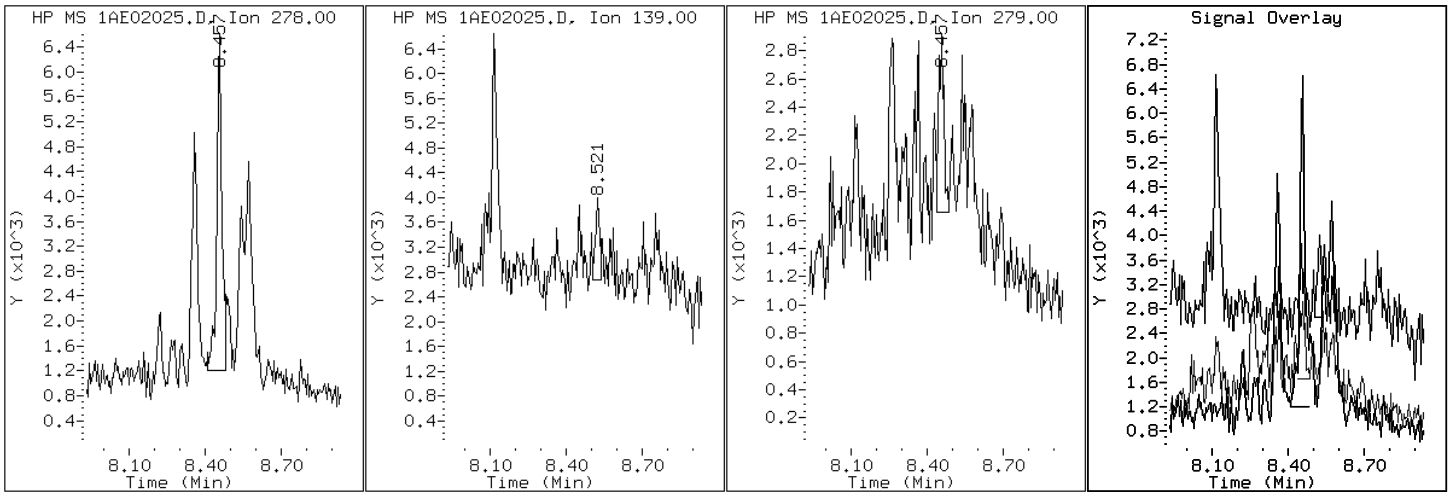
Data File: 1AE02025.D

Date: 02-MAY-2013 21:12

Client ID: CV1227A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-28-a Operator: SCC

25 Dibenzo(a,h)anthracene



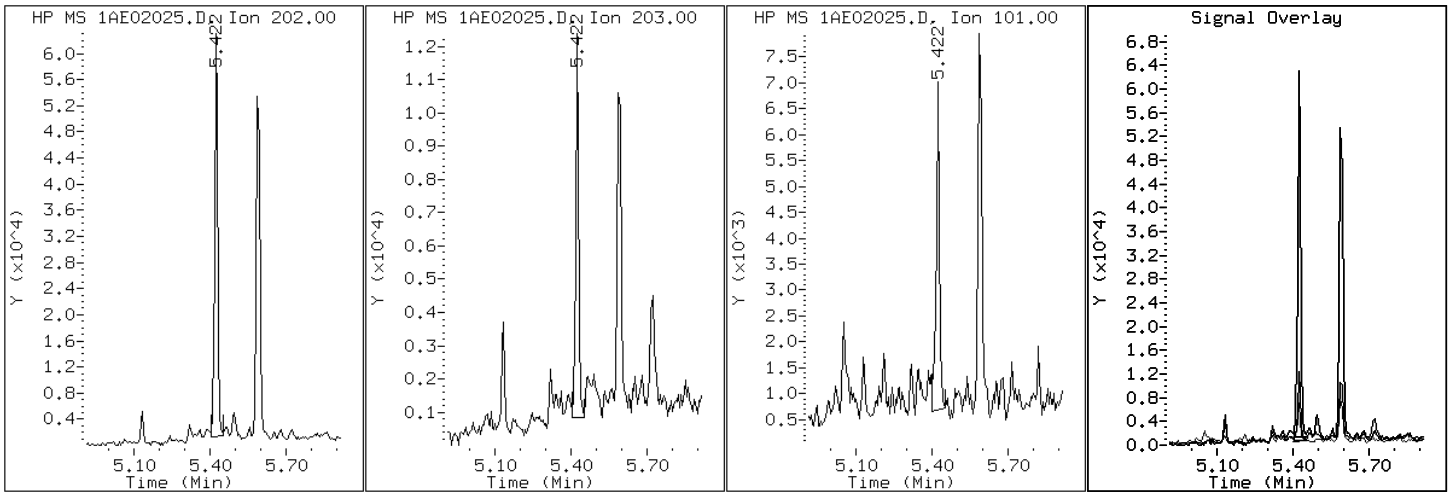
Data File: 1AE02025.D

Date: 02-MAY-2013 21:12

Client ID: CV1227A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-28-a Operator: SCC

15 Fluoranthene



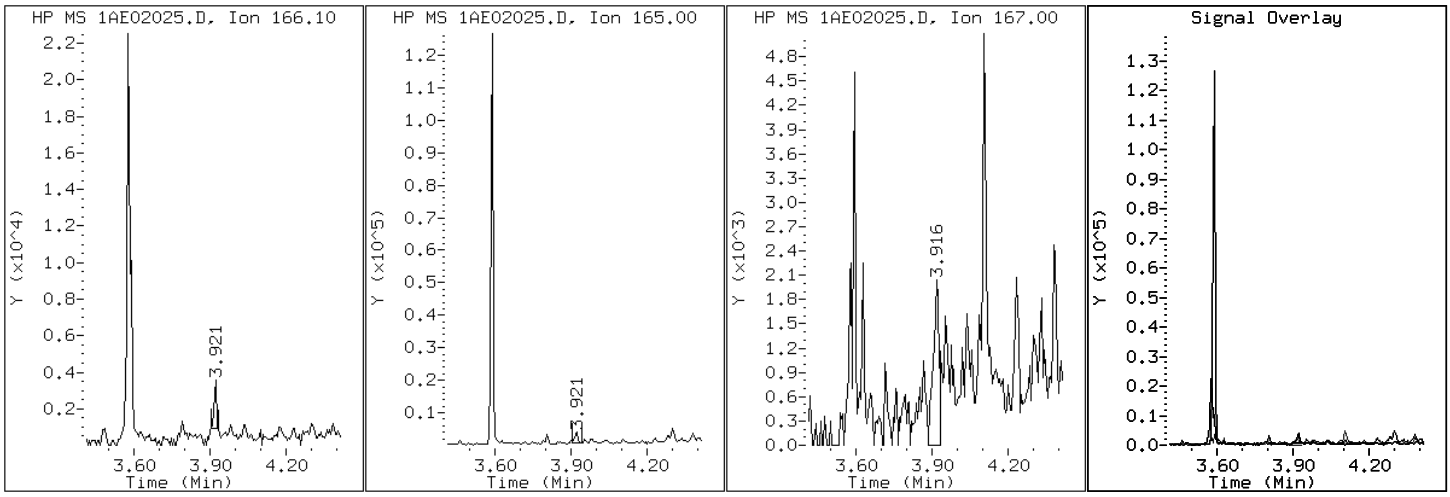
Data File: 1AE02025.D

Date: 02-MAY-2013 21:12

Client ID: CV1227A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-28-a Operator: SCC

9 Fluorene



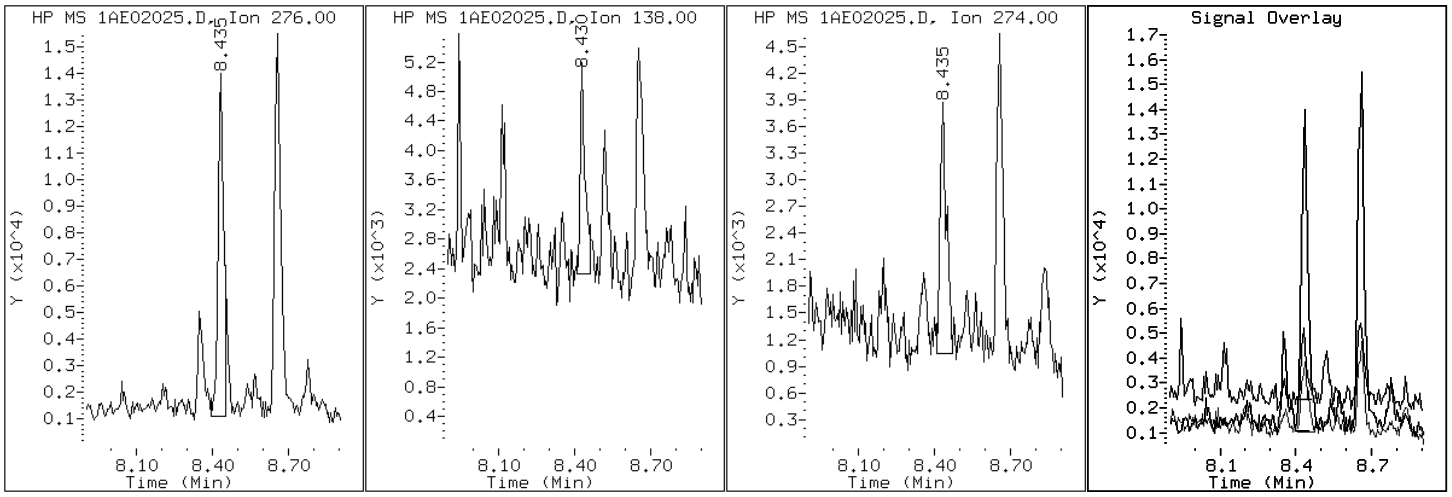
Data File: 1AE02025.D

Date: 02-MAY-2013 21:12

Client ID: CV1227A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-28-a Operator: SCC

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



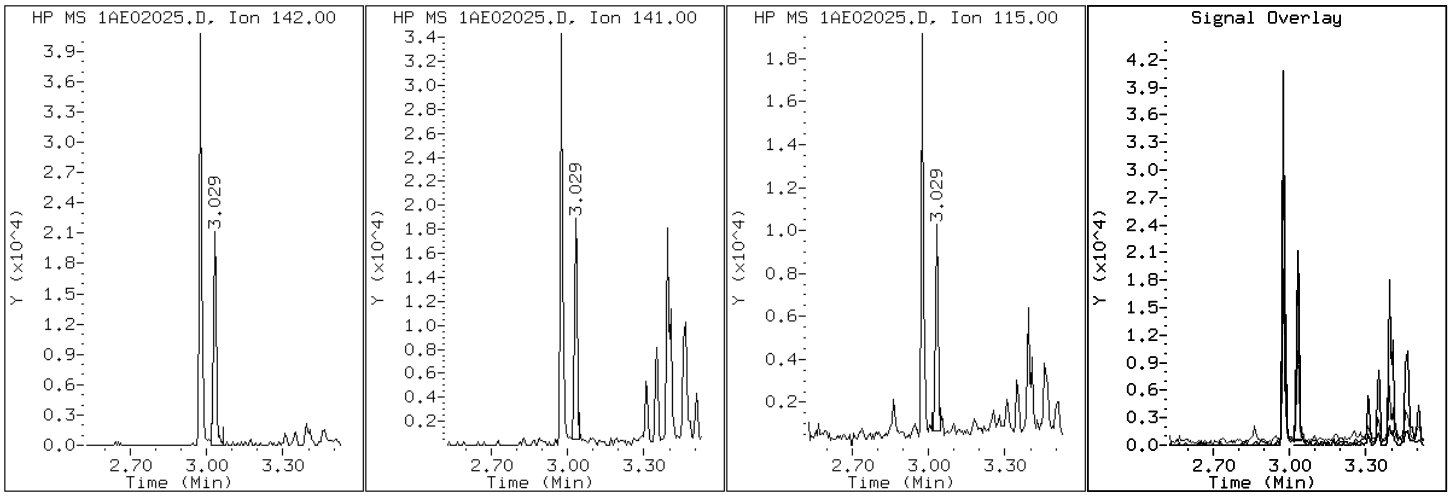
Data File: 1AE02025.D

Date: 02-MAY-2013 21:12

Client ID: CV1227A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-28-a Operator: SCC

4 1-Methylnaphthalene



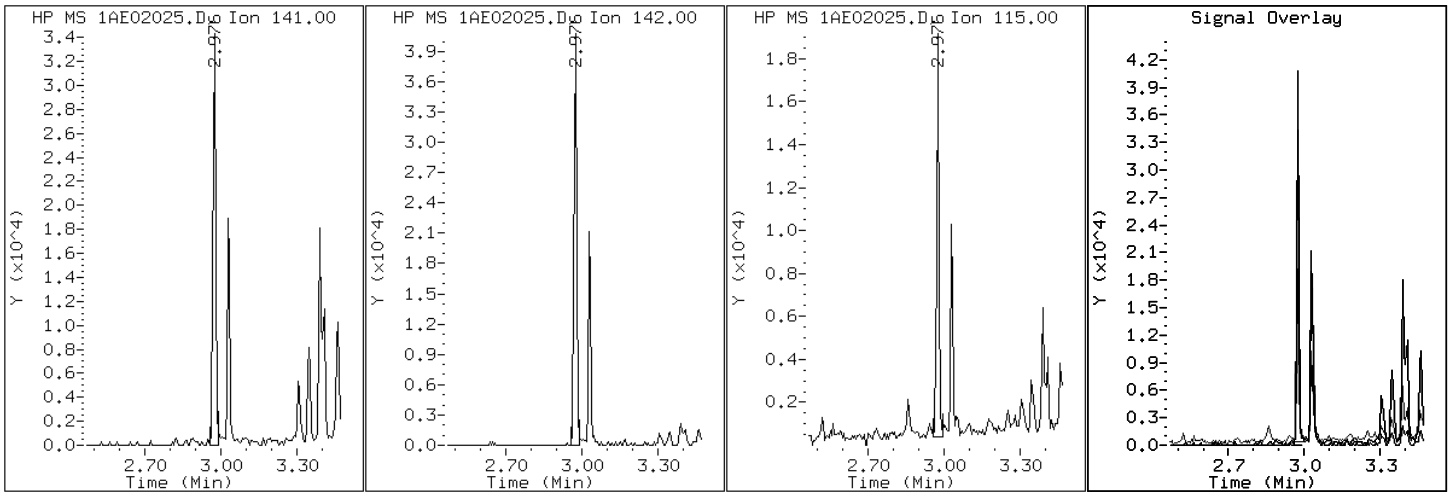
Data File: 1AE02025.D

Date: 02-MAY-2013 21:12

Client ID: CV1227A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-28-a Operator: SCC

3 2-Methylnaphthalene



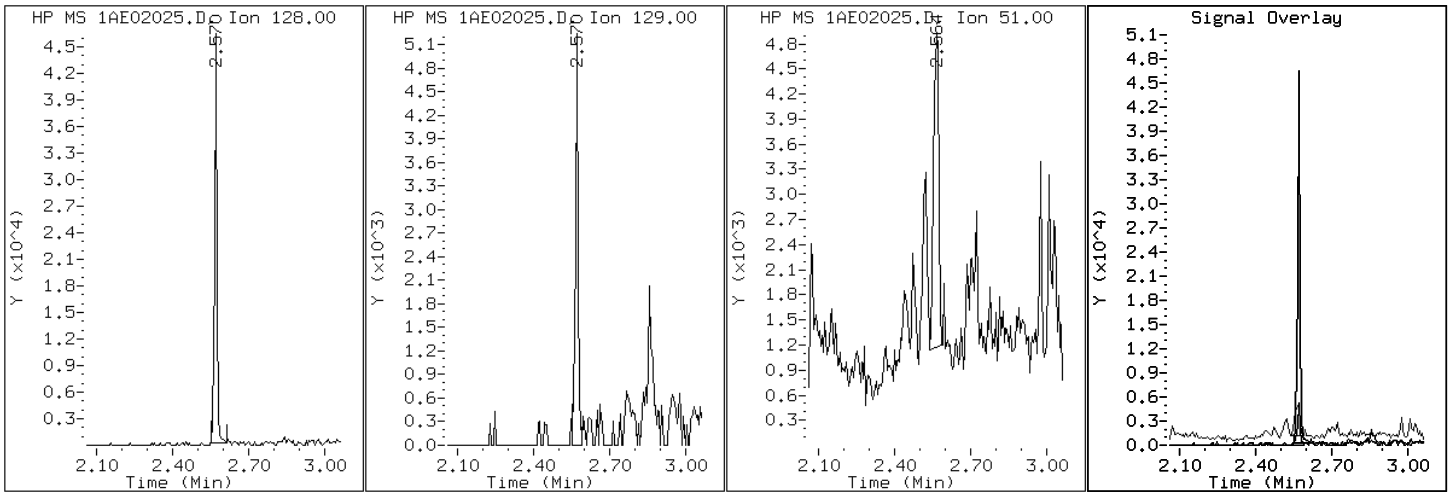
Data File: 1AE02025.D

Date: 02-MAY-2013 21:12

Client ID: CV1227A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-28-a Operator: SCC

2 Naphthalene



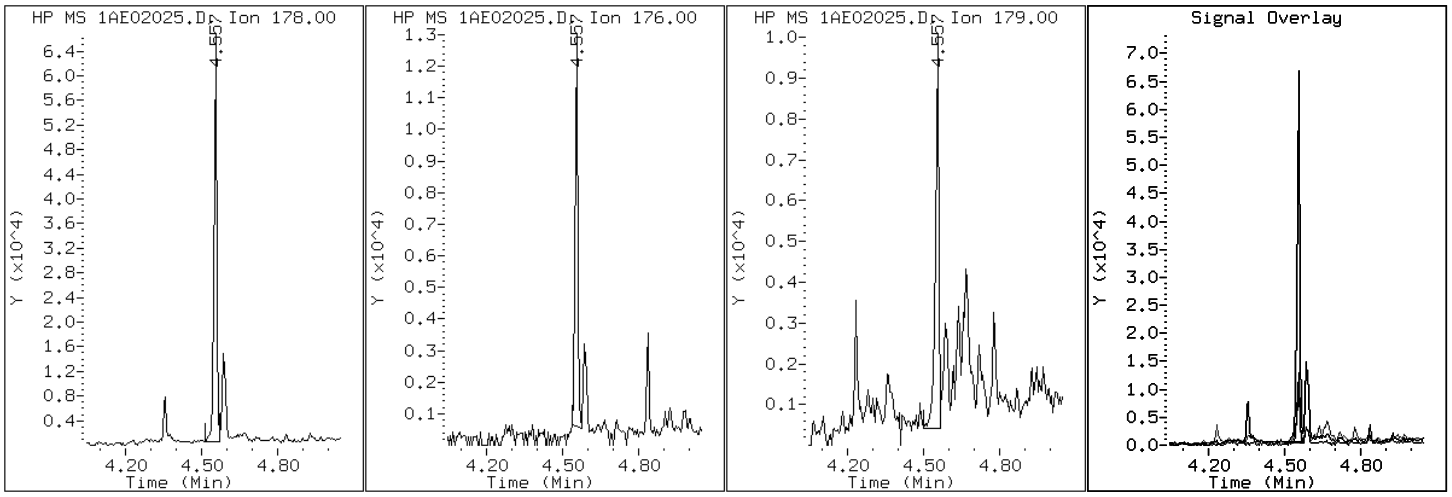
Data File: 1AE02025.D

Date: 02-MAY-2013 21:12

Client ID: CV1227A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-28-a Operator: SCC

11 Phenanthrene



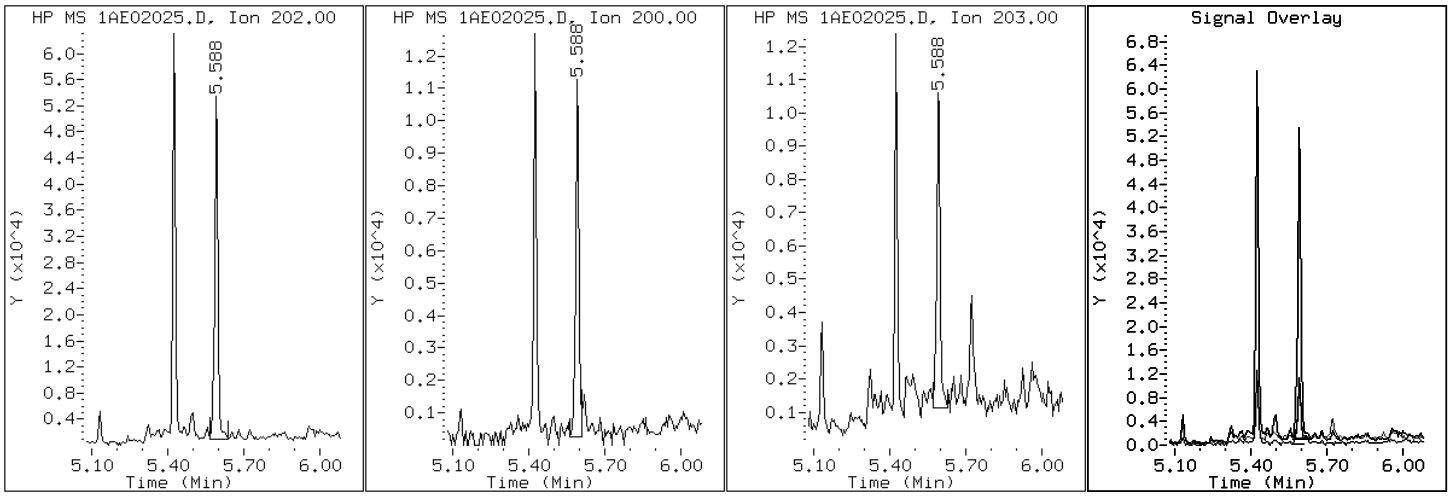
Data File: 1AE02025.D

Date: 02-MAY-2013 21:12

Client ID: CV1227A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-28-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE02025.D
Inj. Date and Time: 02-MAY-2013 21:12
Instrument ID: BSMA5973.i
Client ID: CV1227A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/03/2013

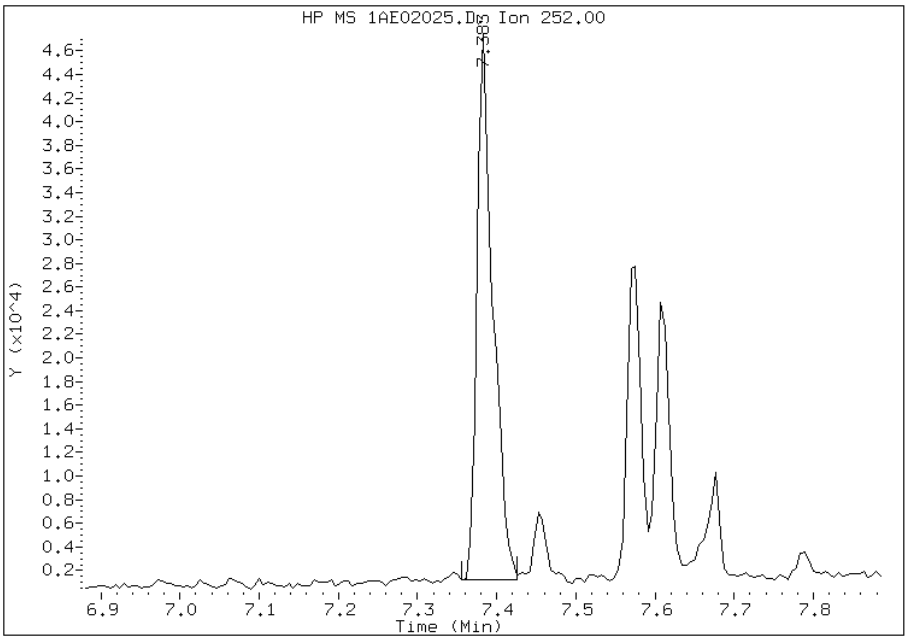
Processing Integration Results

RT: 7.38

Response: 63464

Amount: 2

Conc: 195



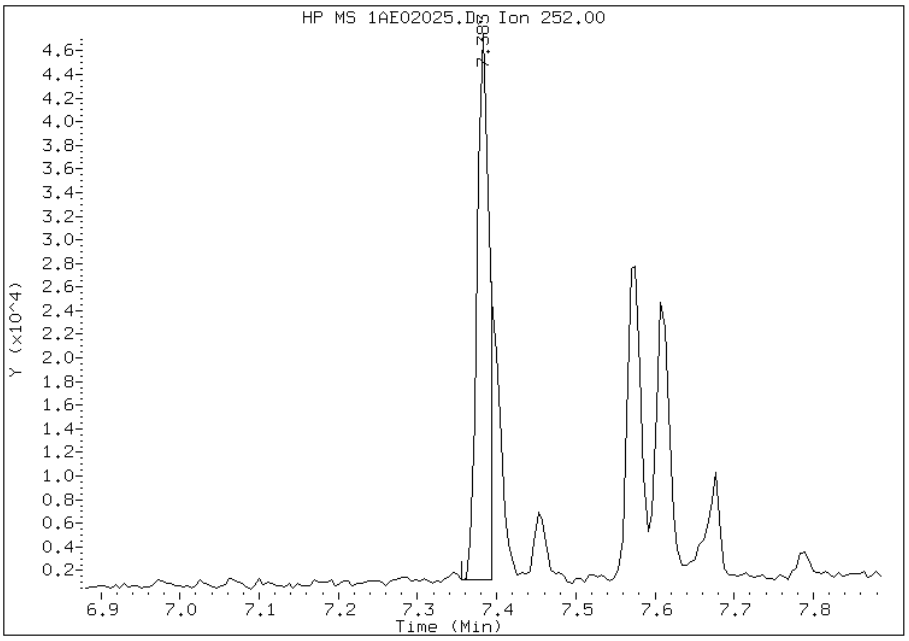
Manual Integration Results

RT: 7.38

Response: 49478

Amount: 2

Conc: 152



Manually Integrated By: cantins
Modification Date: 03-May-2013 11:56
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE02025.D
Inj. Date and Time: 02-MAY-2013 21:12
Instrument ID: BSMA5973.i
Client ID: CV1227A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/03/2013

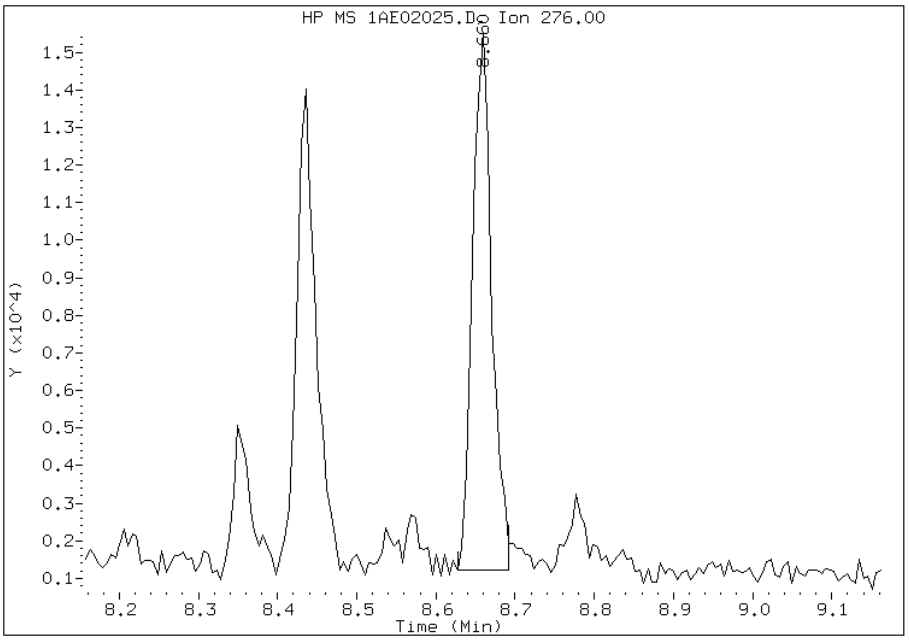
Processing Integration Results

RT: 8.66

Response: 23888

Amount: 1

Conc: 70



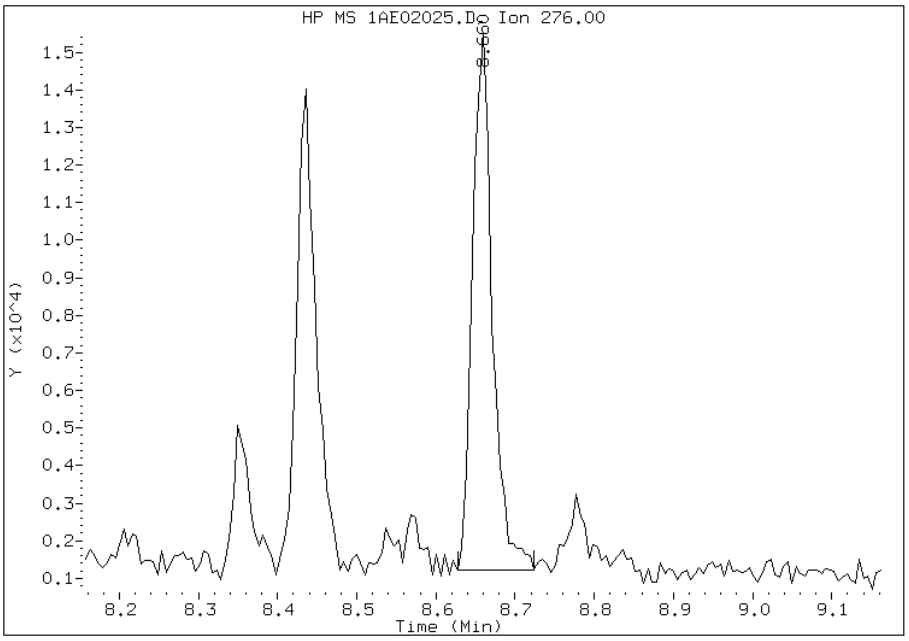
Manual Integration Results

RT: 8.66

Response: 24769

Amount: 1

Conc: 73



Manually Integrated By: cantins
Modification Date: 03-May-2013 11:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE02025.D
Inj. Date and Time: 02-MAY-2013 21:12
Instrument ID: BSMA5973.i
Client ID: CV1227A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/03/2013

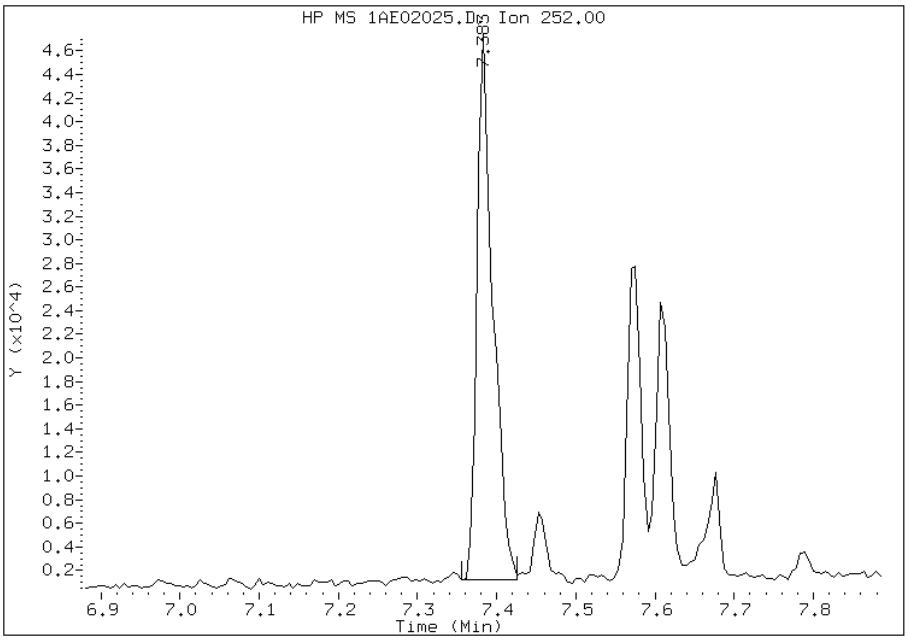
Processing Integration Results

RT: 7.38

Response: 63464

Amount: 2

Conc: 170



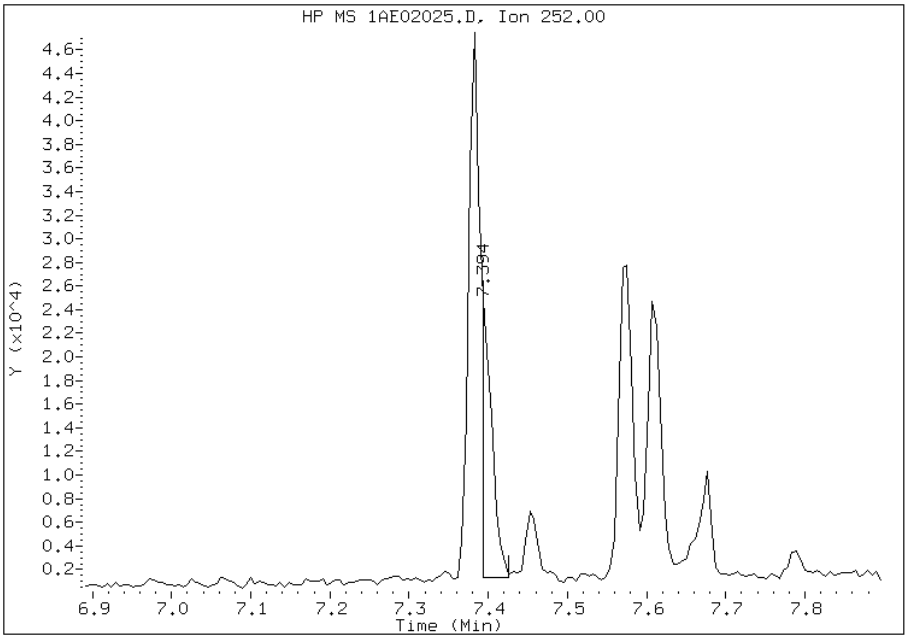
Manual Integration Results

RT: 7.39

Response: 21306

Amount: 1

Conc: 57



Manually Integrated By: cantins
Modification Date: 03-May-2013 11:56
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE02025.D
Inj. Date and Time: 02-MAY-2013 21:12
Instrument ID: BSMA5973.i
Client ID: CV1227A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/03/2013

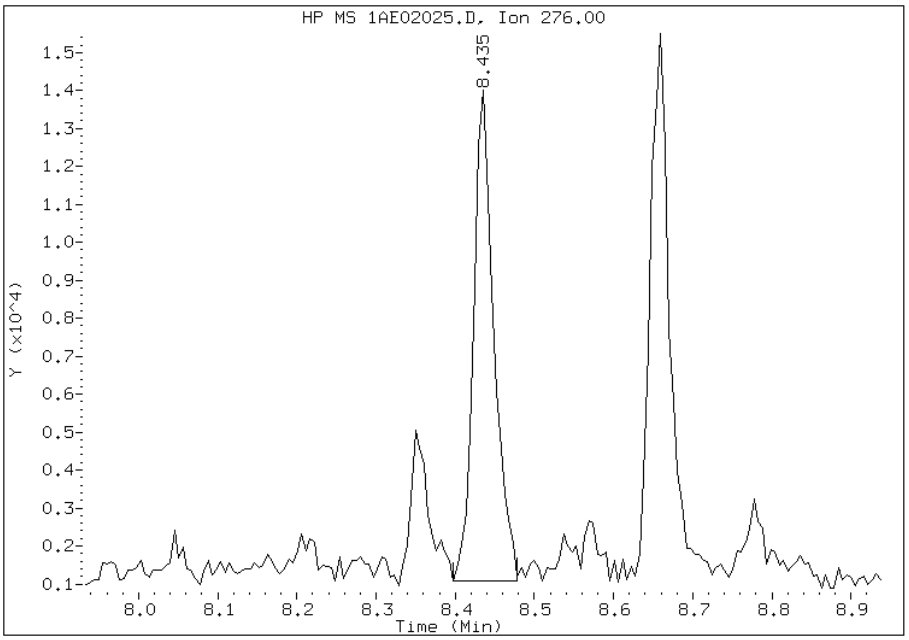
Processing Integration Results

RT: 8.44

Response: 22731

Amount: 1

Conc: 74



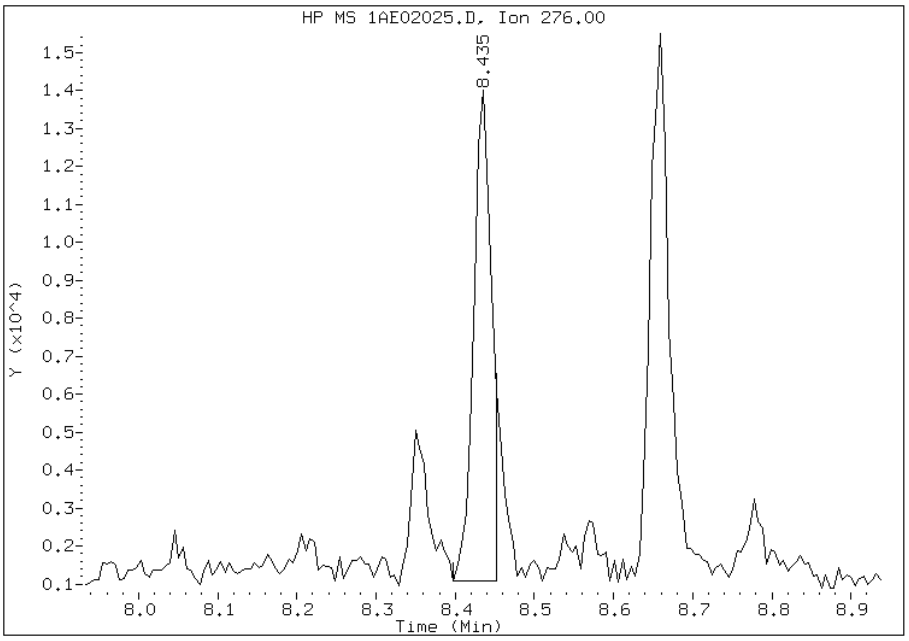
Manual Integration Results

RT: 8.44

Response: 19886

Amount: 1

Conc: 65



Manually Integrated By: cantins
Modification Date: 03-May-2013 11:57
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: CV1227B-CS | Lab Sample ID: 680-89791-29

Matrix: Solid | Lab File ID: 1AE02026.D

Analysis Method: 8270C LL | Date Collected: 04/25/2013 10:40

Extract. Method: 3546 | Date Extracted: 04/30/2013 14:42

Sample wt/vol: 14.96(g) | Date Analyzed: 05/02/2013 21:27

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137070 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	29	J	48	6.0
120-12-7	Anthracene	28		10	5.0
56-55-3	Benzo[a]anthracene	57		9.6	4.7
50-32-8	Benzo[a]pyrene	48		12	6.2
205-99-2	Benzo[b]fluoranthene	70		15	7.3
191-24-2	Benzo[g,h,i]perylene	40		24	5.3
207-08-9	Benzo[k]fluoranthene	24		9.6	4.3
218-01-9	Chrysene	89		11	5.4
53-70-3	Dibenz(a,h)anthracene	10	J	24	4.9
206-44-0	Fluoranthene	79		24	4.8
86-73-7	Fluorene	9.3	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	30		24	8.5
90-12-0	1-Methylnaphthalene	47	J	48	5.3
91-57-6	2-Methylnaphthalene	76		48	8.5
91-20-3	Naphthalene	180		48	5.3
85-01-8	Phenanthrene	150		9.6	4.7
129-00-0	Pyrene	100		24	4.4

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02026.D
Lab Smp Id: 680-89791-A-29-A Client Smp ID: CV1227B-CS
Inj Date : 02-MAY-2013 21:27
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89791-a-29-a
Misc Info : 680-89791-A-29-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\a-bFASTPAHi-m.m
Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 23
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/Ws * 100/(100 - M) * A * B * C * D * GPC * 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	16.269	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.558	2.550	(1.000)	1171127	40.0000	
*	6 Acenaphthene-d10	164	3.590	3.581	(1.000)	611528	40.0000	
*	10 Phenanthrene-d10	188	4.546	4.532	(1.000)	873759	40.0000	
$	14 o-Terphenyl	230	4.840	4.831	(1.065)	79605	5.57007	444.6746
*	18 Chrysene-d12	240	6.570	6.551	(1.000)	782599	40.0000	
*	23 Perylene-d12	264	7.660	7.641	(1.000)	929571	40.0000	
	2 Naphthalene	128	2.569	2.560	(1.004)	66261	2.26334	180.6889
	3 2-Methylnaphthalene	141	2.975	2.972	(1.163)	15915	0.94820	75.6975
	4 1-Methylnaphthalene	142	3.034	3.025	(1.186)	10891	0.58567	46.7557
	5 Acenaphthylene	152	3.499	3.490	(0.975)	12878	0.36033	28.7662
	9 Fluorene	166	3.921	3.912	(1.092)	2626	0.11645	9.2967(Q)
	11 Phenanthrene	178	4.556	4.548	(1.002)	46051	1.81940	145.2482
	12 Anthracene	178	4.588	4.580	(1.009)	9252	0.35155	28.0649
	13 Carbazole	167	4.727	4.713	(1.040)	4383	0.17263	13.7819

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	5.422	5.413	(1.193)	29070	0.99436	79.3828
16 Pyrene	202	5.587	5.579	(0.850)	38329	1.28377	102.4867
17 Benzo(a)anthracene	228	6.565	6.540	(0.999)	18344	0.71776	57.3006
19 Chrysene	228	6.581	6.572	(1.002)	29009	1.11881	89.3177
20 Benzo(b)fluoranthene	252	7.382	7.363	(0.964)	24625	0.87257	69.6598(M)
21 Benzo(k)fluoranthene	252	7.393	7.384	(0.965)	9586	0.29543	23.5852(QM)
22 Benzo(a)pyrene	252	7.607	7.593	(0.993)	16853	0.60029	47.9225
24 Indeno(1,2,3-cd)pyrene	276	8.429	8.405	(1.100)	10000	0.37724	30.1158(M)
25 Dibenzo(a,h)anthracene	278	8.451	8.431	(1.103)	3156	0.12796	10.2150
26 Benzo(g,h,i)perylene	276	8.649	8.624	(1.129)	14770	0.49784	39.7440

QC Flag Legend

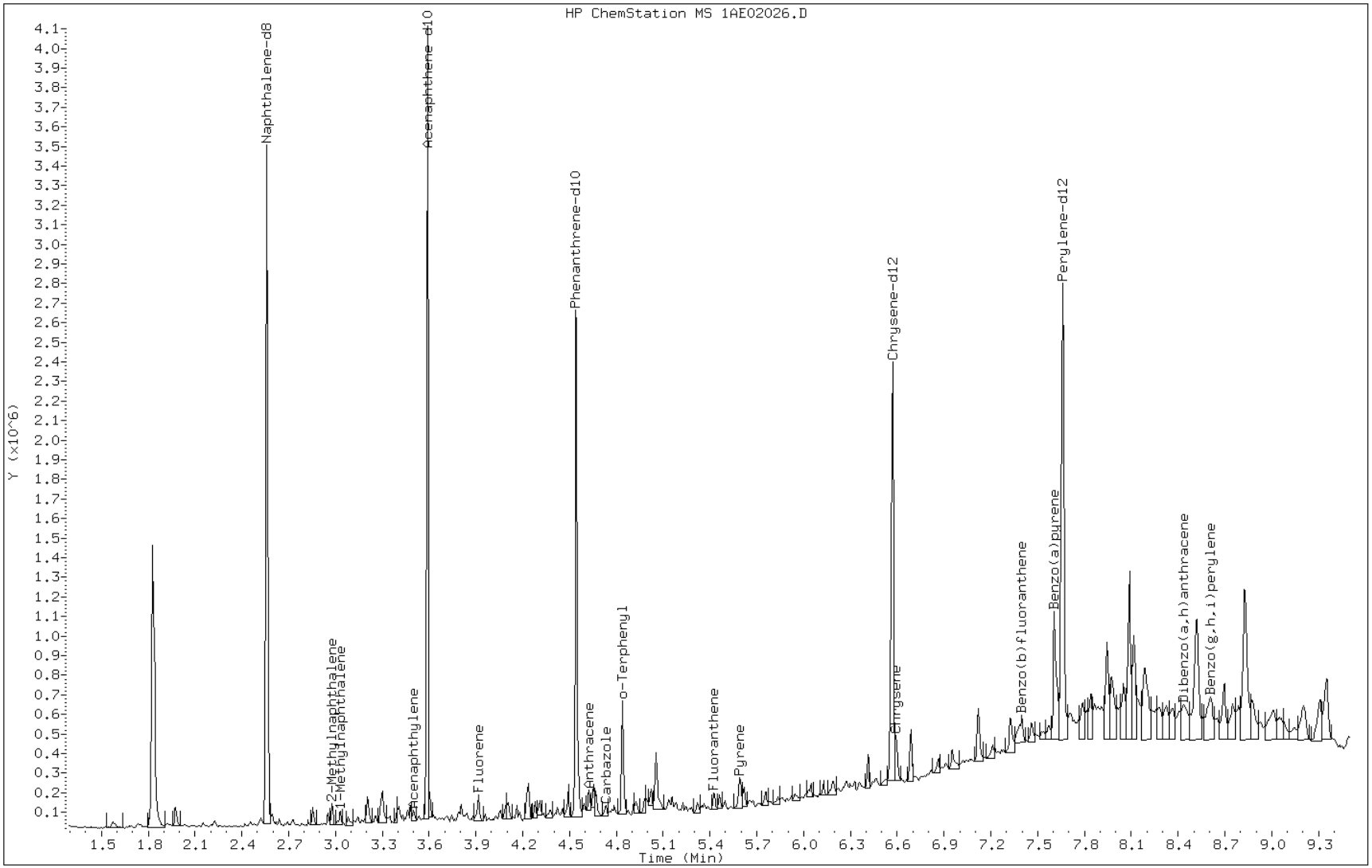
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE02026.D

Date: 02-MAY-2013 21:27

Client ID: CV1227B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-29-a Operator: SCC



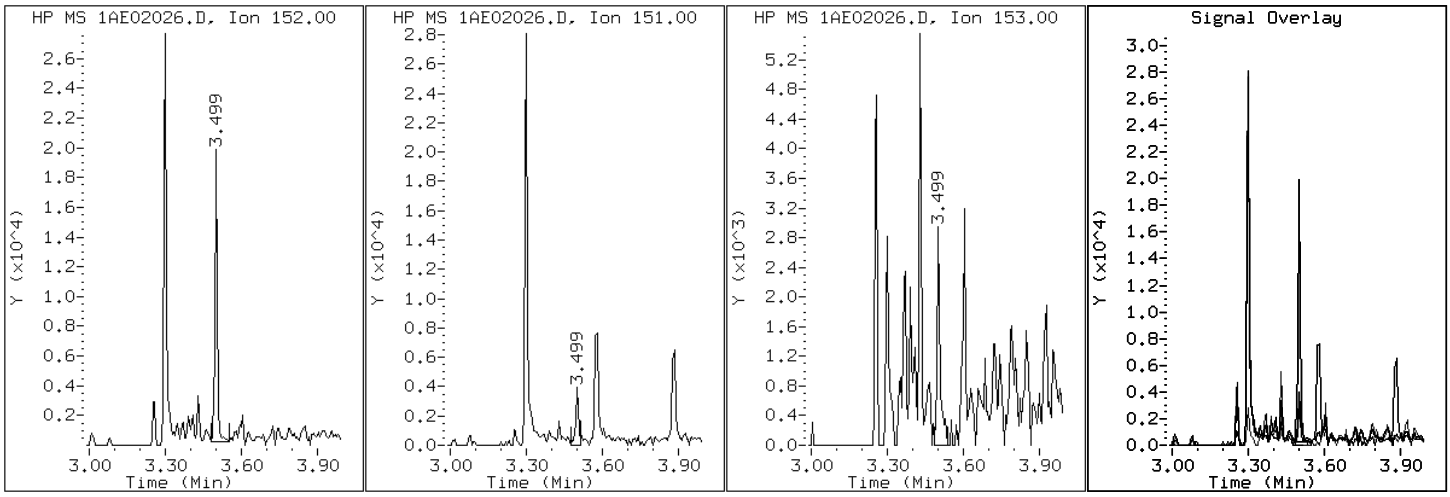
Data File: 1AE02026.D

Date: 02-MAY-2013 21:27

Client ID: CV1227B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-29-a Operator: SCC

5 Acenaphthylene



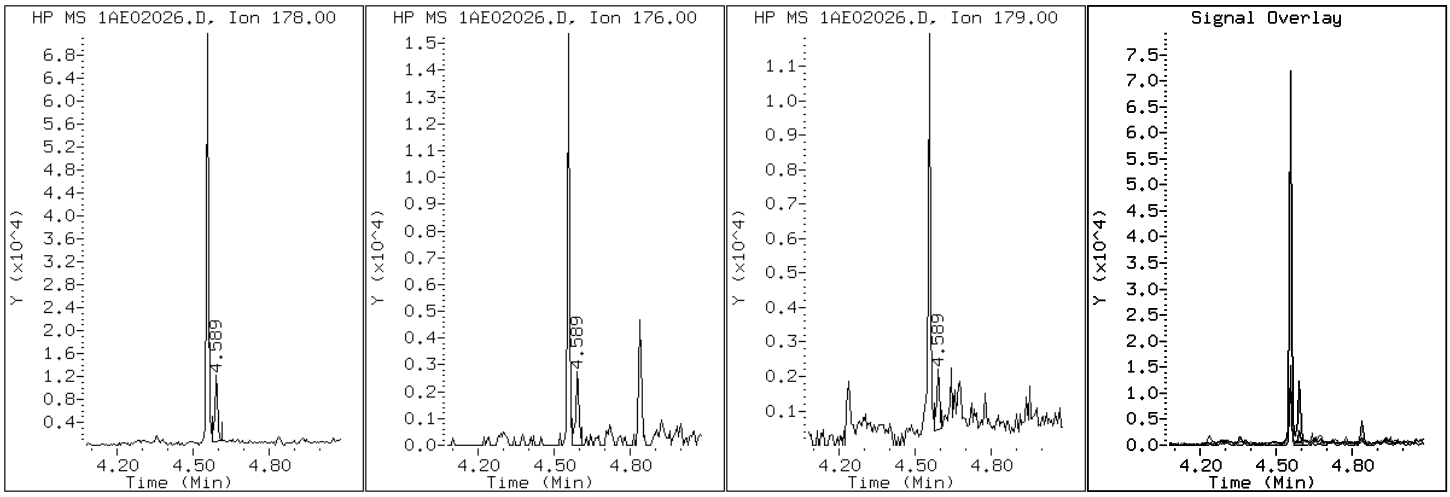
Data File: 1AE02026.D

Date: 02-MAY-2013 21:27

Client ID: CV1227B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-29-a Operator: SCC

12 Anthracene



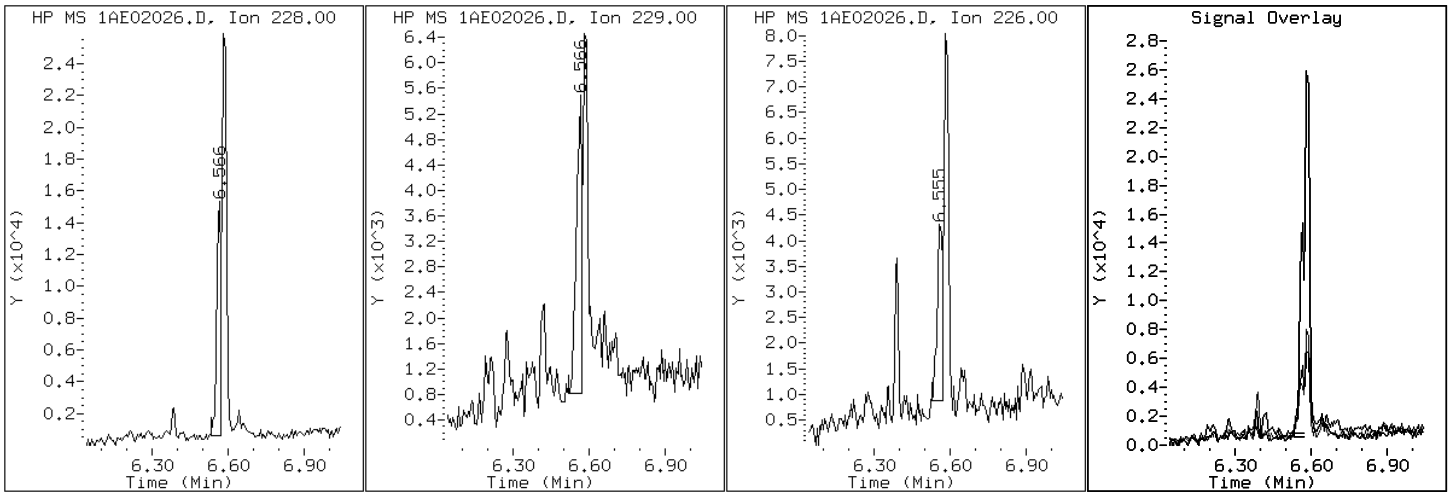
Data File: 1AE02026.D

Date: 02-MAY-2013 21:27

Client ID: CV1227B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-29-a Operator: SCC

17 Benzo(a)anthracene



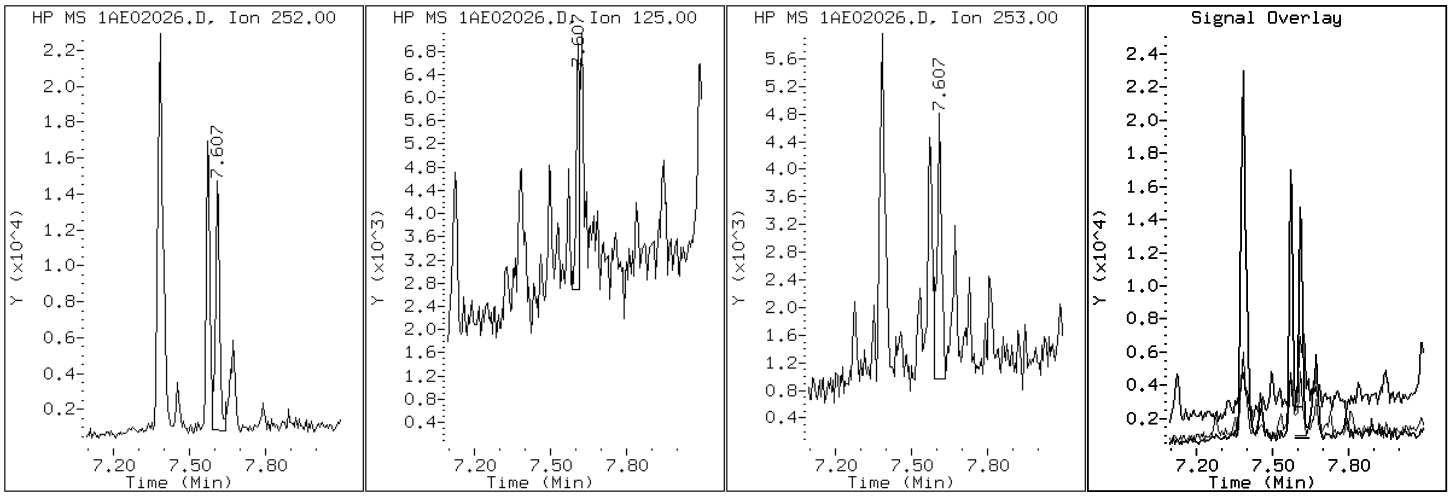
Data File: 1AE02026.D

Date: 02-MAY-2013 21:27

Client ID: CV1227B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-29-a Operator: SCC

22 Benzo(a)pyrene



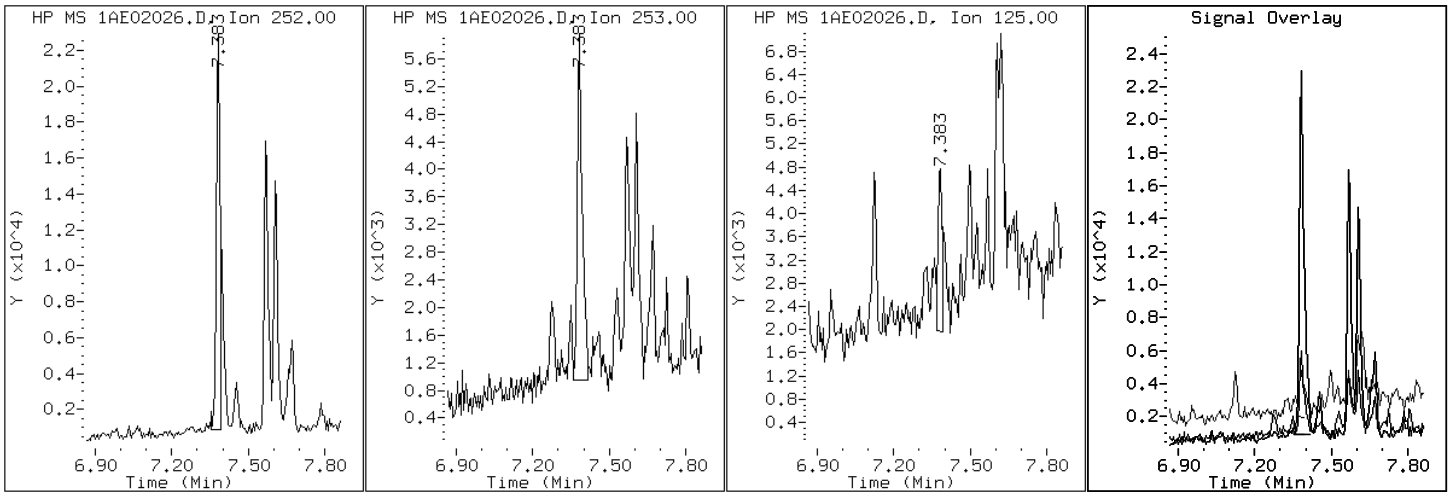
Data File: 1AE02026.D

Date: 02-MAY-2013 21:27

Client ID: CV1227B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-29-a Operator: SCC

20 Benzo(b)fluoranthene



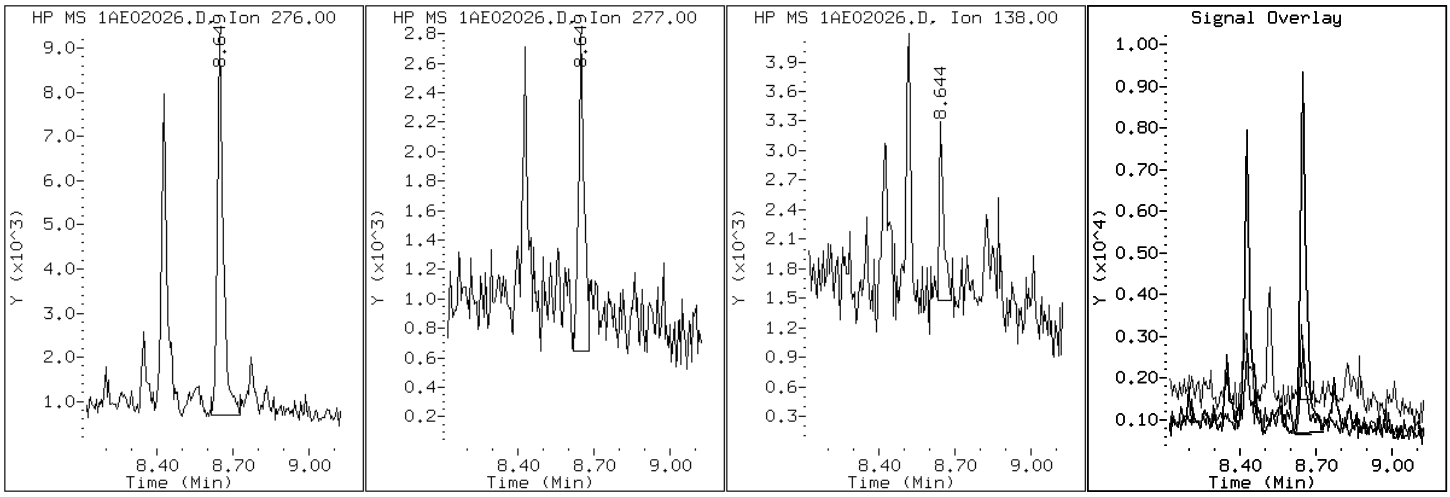
Data File: 1AE02026.D

Date: 02-MAY-2013 21:27

Client ID: CV1227B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-29-a Operator: SCC

26 Benzo(g,h,i)perylene



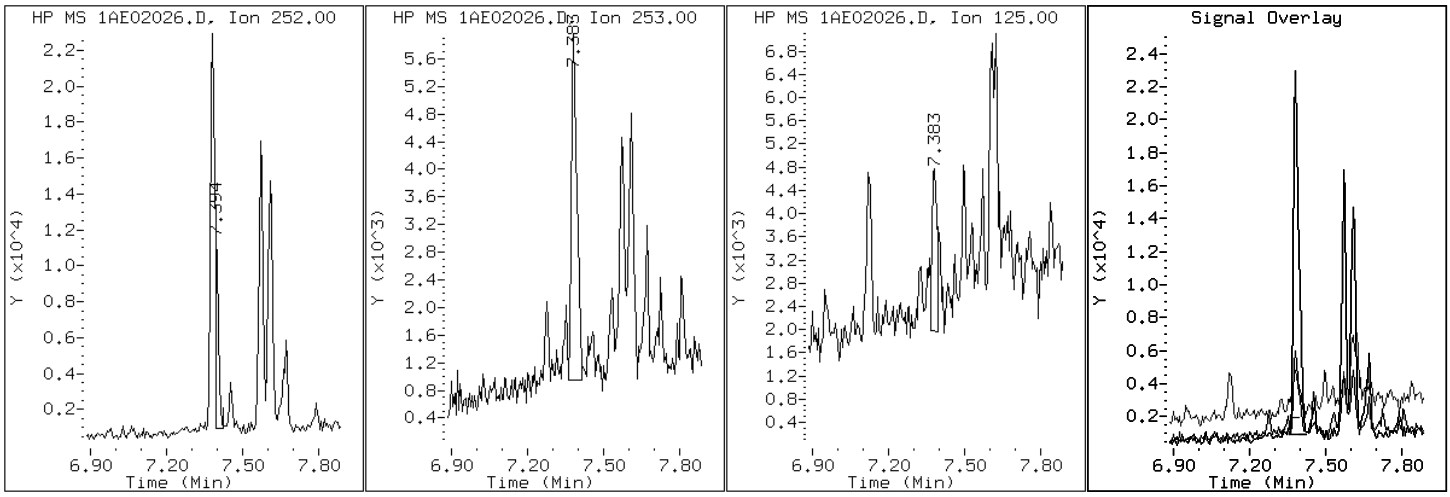
Data File: 1AE02026.D

Date: 02-MAY-2013 21:27

Client ID: CV1227B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-29-a Operator: SCC

21 Benzo(k)fluoranthene



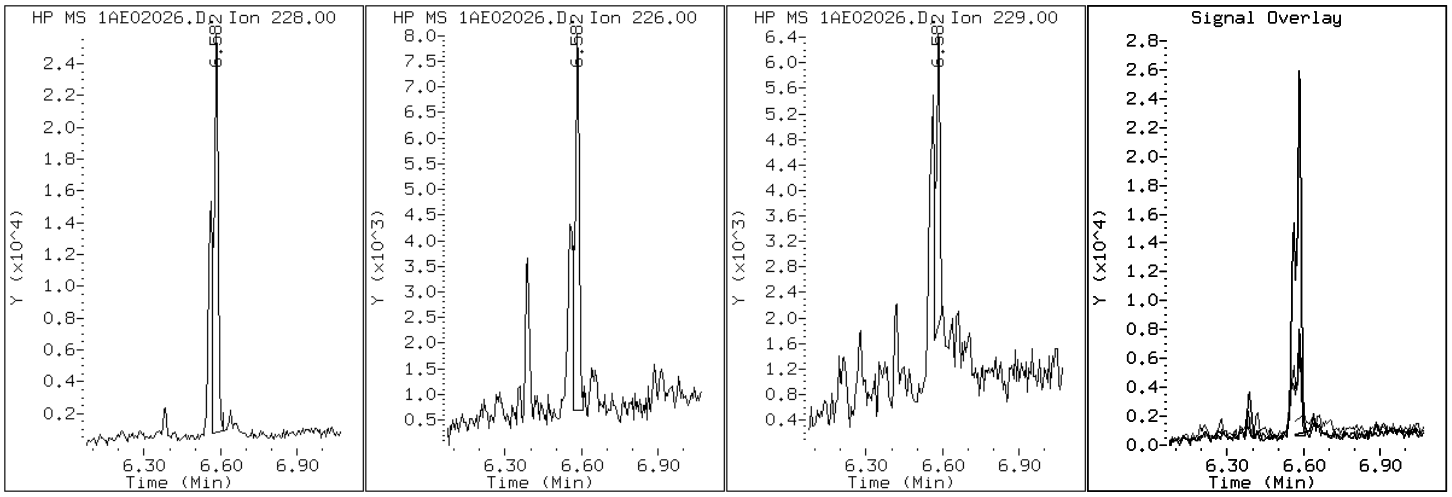
Data File: 1AE02026.D

Date: 02-MAY-2013 21:27

Client ID: CV1227B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-29-a Operator: SCC

19 Chrysene



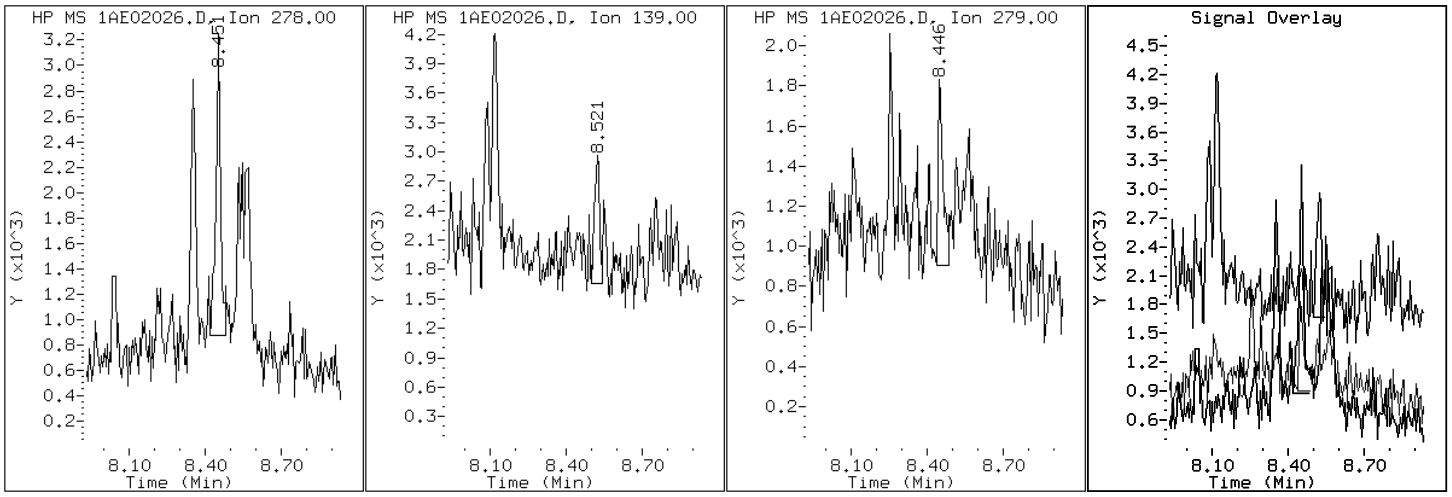
Data File: 1AE02026.D

Date: 02-MAY-2013 21:27

Client ID: CV1227B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-29-a Operator: SCC

25 Dibenzo(a,h)anthracene



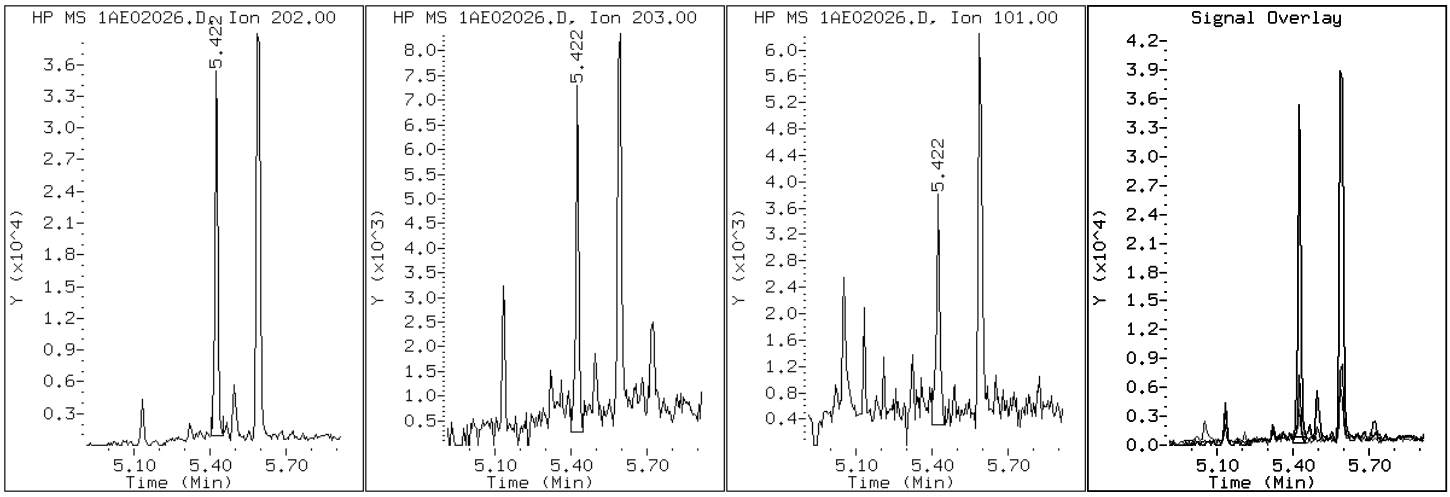
Data File: 1AE02026.D

Date: 02-MAY-2013 21:27

Client ID: CV1227B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-29-a Operator: SCC

15 Fluoranthene



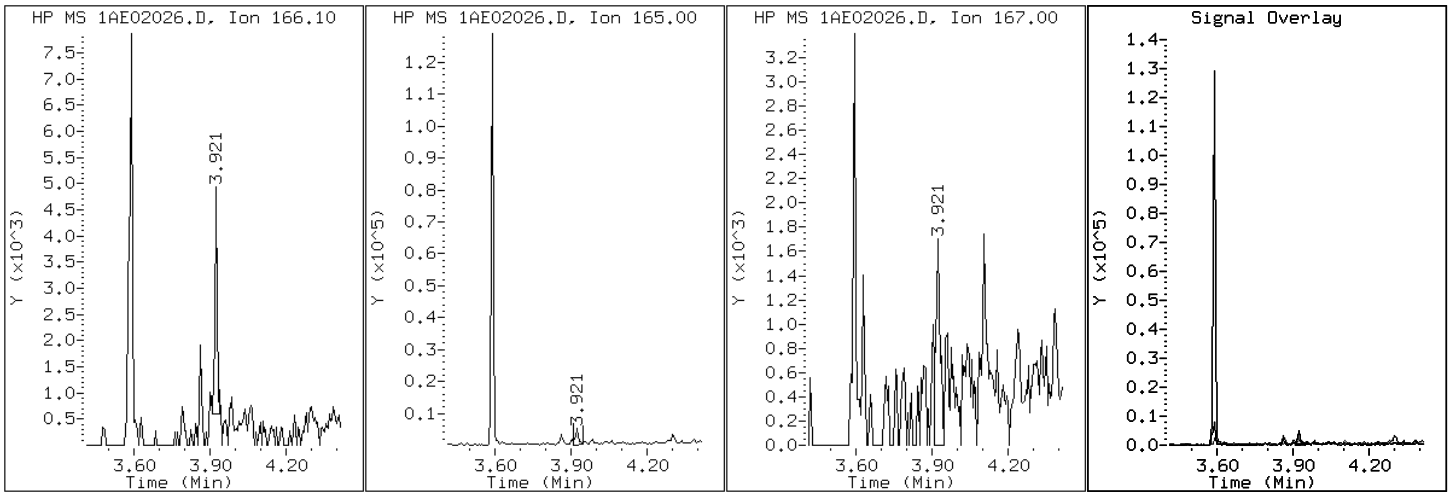
Data File: 1AE02026.D

Date: 02-MAY-2013 21:27

Client ID: CV1227B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-29-a Operator: SCC

9 Fluorene



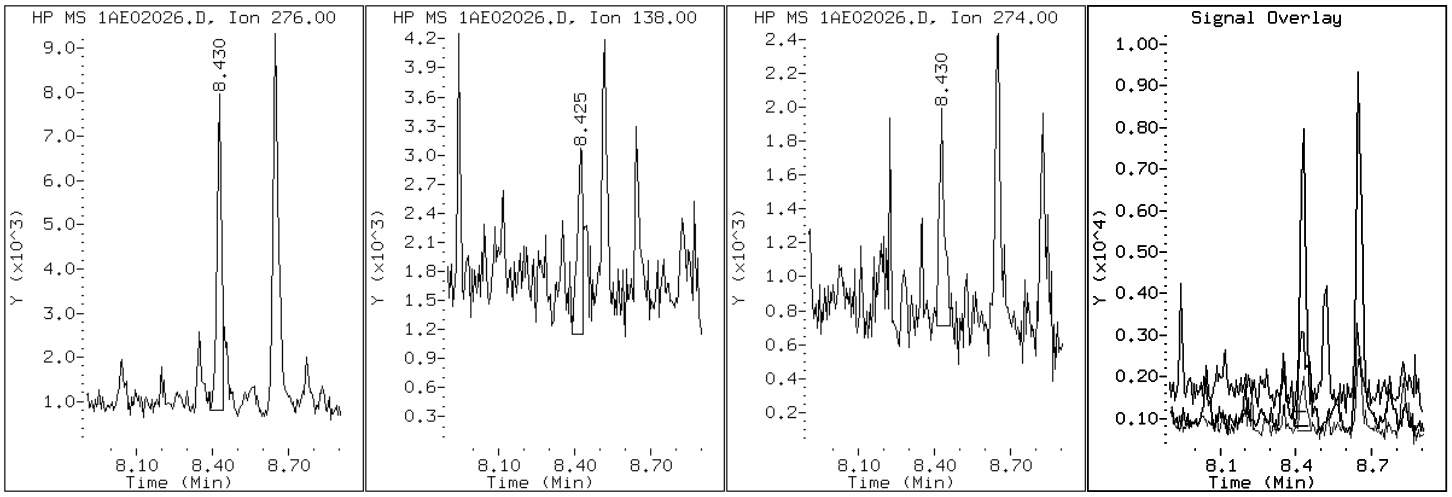
Data File: 1AE02026.D

Date: 02-MAY-2013 21:27

Client ID: CV1227B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-29-a Operator: SCC

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



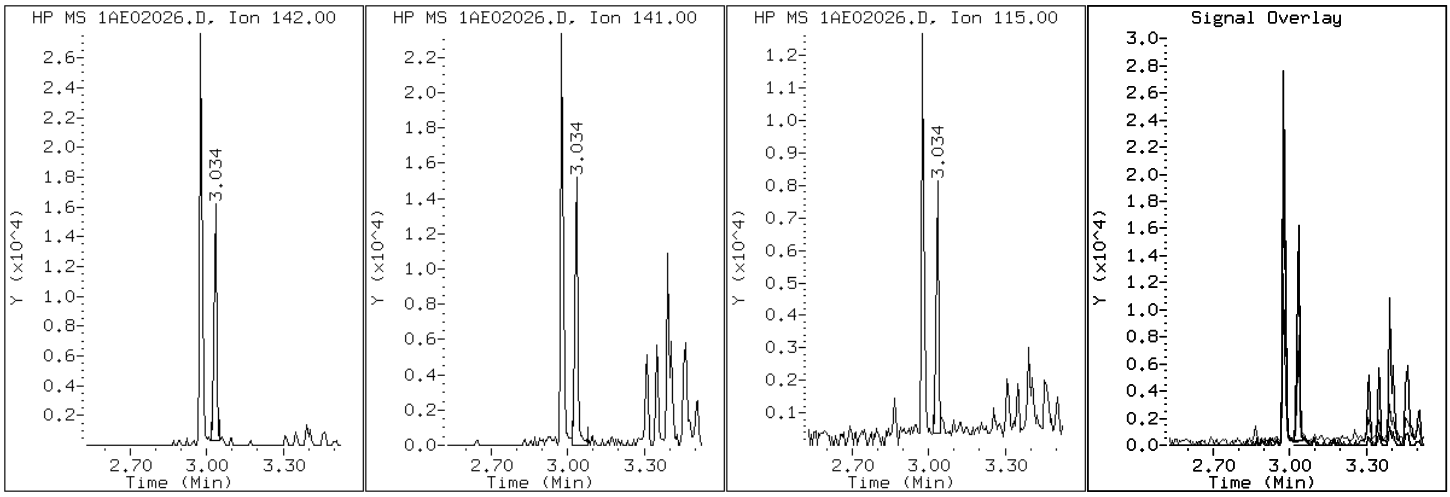
Data File: 1AE02026.D

Date: 02-MAY-2013 21:27

Client ID: CV1227B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-29-a Operator: SCC

4 1-Methylnaphthalene



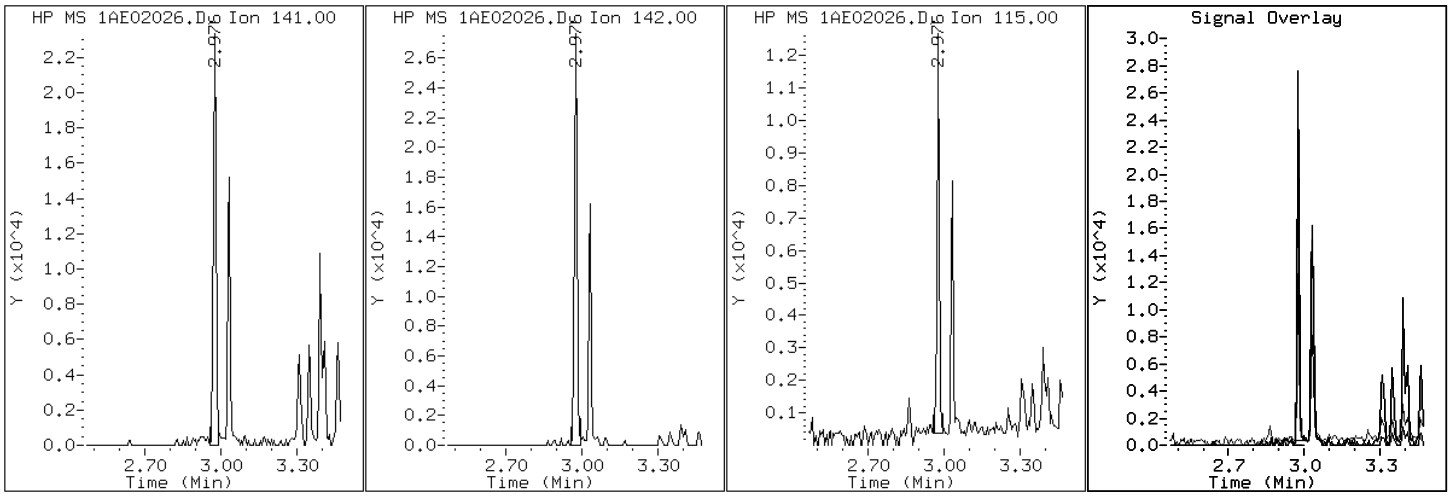
Data File: 1AE02026.D

Date: 02-MAY-2013 21:27

Client ID: CV1227B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-29-a Operator: SCC

3 2-Methylnaphthalene



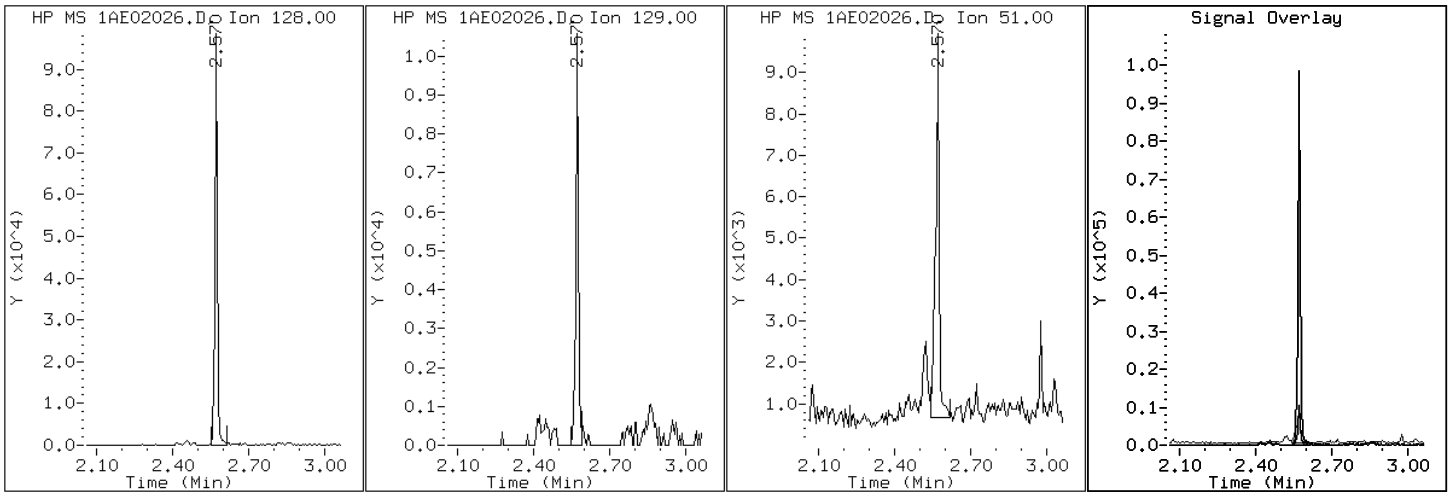
Data File: 1AE02026.D

Date: 02-MAY-2013 21:27

Client ID: CV1227B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-29-a Operator: SCC

2 Naphthalene



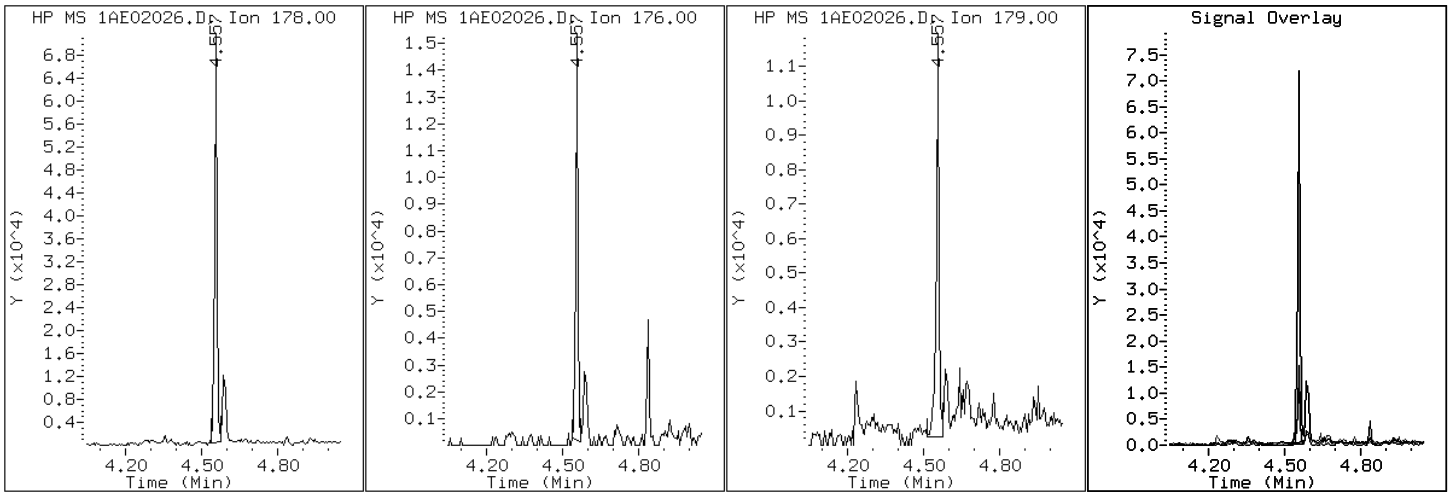
Data File: 1AE02026.D

Date: 02-MAY-2013 21:27

Client ID: CV1227B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-29-a Operator: SCC

11 Phenanthrene



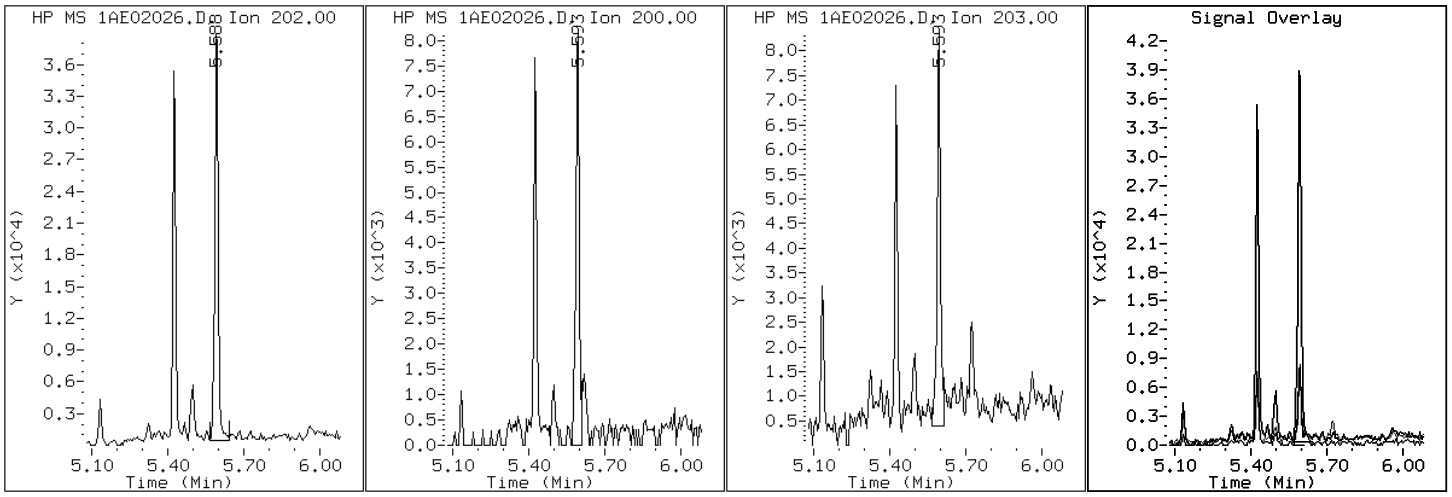
Data File: 1AE02026.D

Date: 02-MAY-2013 21:27

Client ID: CV1227B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-29-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE02026.D
Inj. Date and Time: 02-MAY-2013 21:27
Instrument ID: BSMA5973.i
Client ID: CV1227B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/03/2013

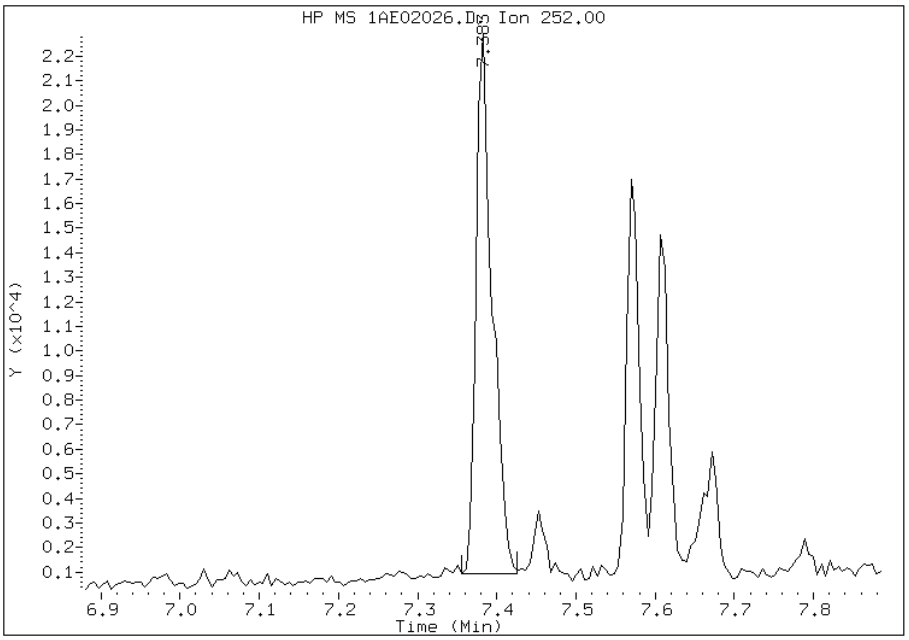
Processing Integration Results

RT: 7.38

Response: 30840

Amount: 1

Conc: 87



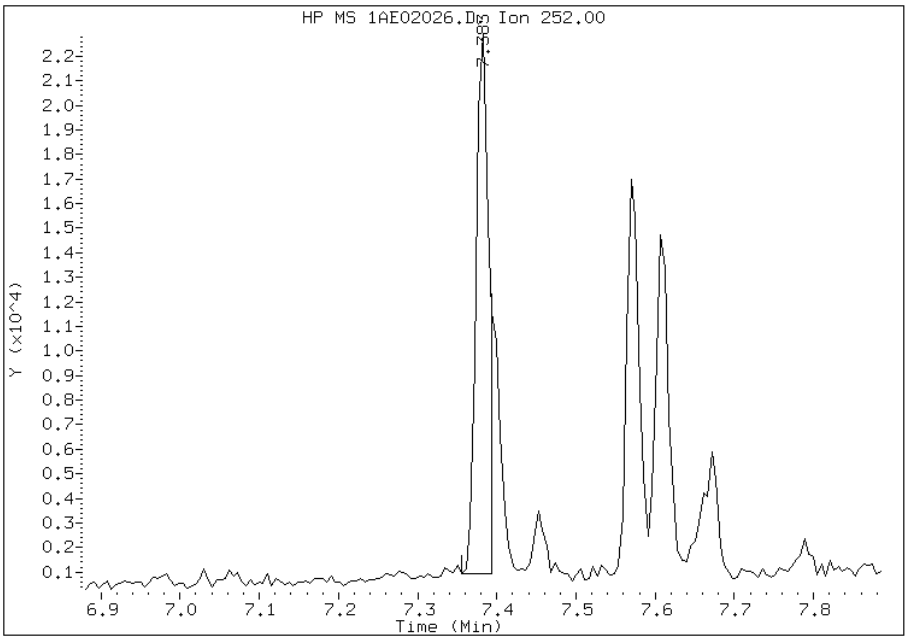
Manual Integration Results

RT: 7.38

Response: 24625

Amount: 1

Conc: 70



Manually Integrated By: cantins
Modification Date: 03-May-2013 11:58
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE02026.D
Inj. Date and Time: 02-MAY-2013 21:27
Instrument ID: BSMA5973.i
Client ID: CV1227B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/03/2013

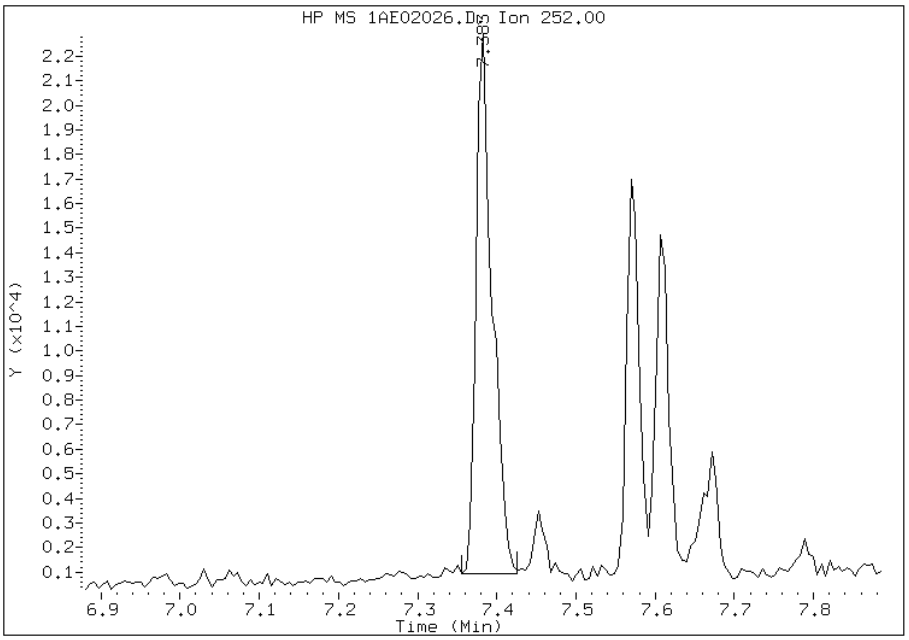
Processing Integration Results

RT: 7.38

Response: 30840

Amount: 1

Conc: 76



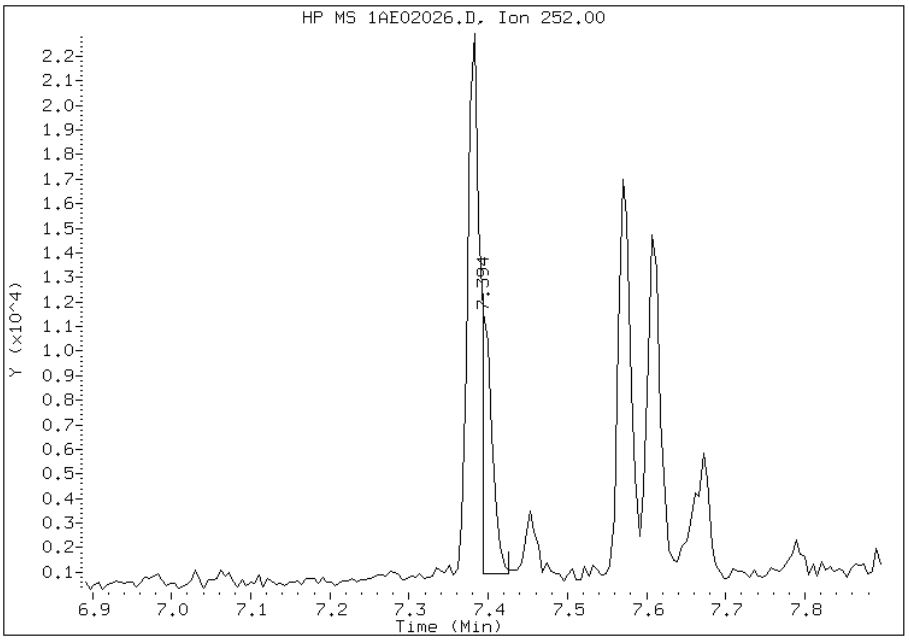
Manual Integration Results

RT: 7.39

Response: 9586

Amount: 0

Conc: 24



Manually Integrated By: cantins
Modification Date: 03-May-2013 11:58
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE02026.D
Inj. Date and Time: 02-MAY-2013 21:27
Instrument ID: BSMA5973.i
Client ID: CV1227B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/03/2013

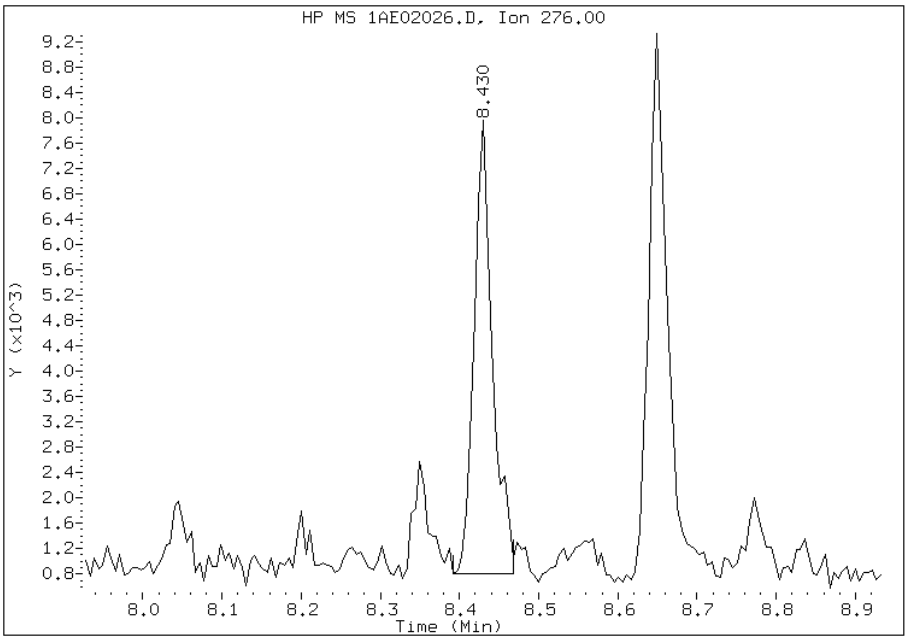
Processing Integration Results

RT: 8.43

Response: 11324

Amount: 0

Conc: 34



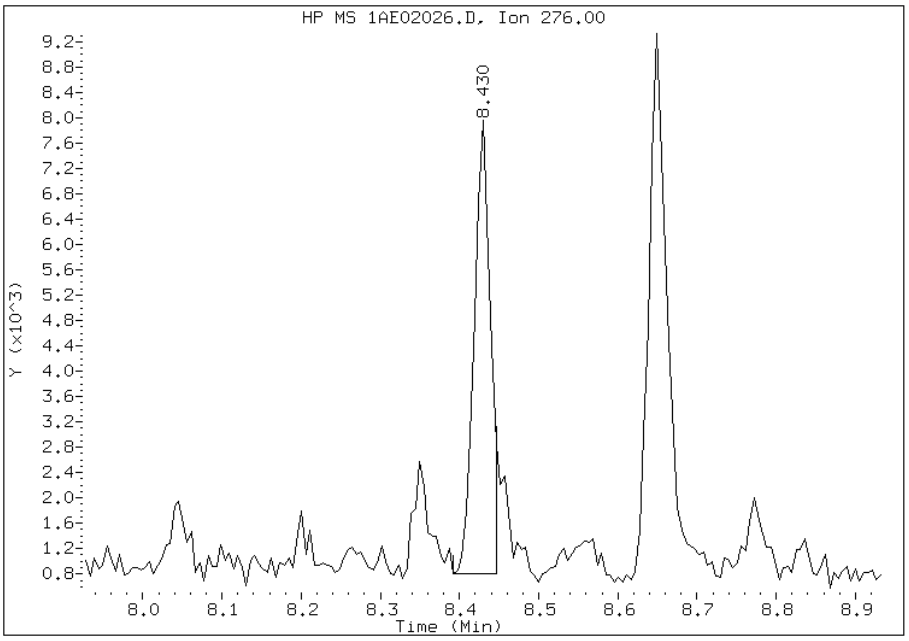
Manual Integration Results

RT: 8.43

Response: 10000

Amount: 0

Conc: 30



Manually Integrated By: cantins
Modification Date: 03-May-2013 11:58
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: CV1227C-CS | Lab Sample ID: 680-89791-30

Matrix: Solid | Lab File ID: 1AE02027.D

Analysis Method: 8270C LL | Date Collected: 04/25/2013 10:50

Extract. Method: 3546 | Date Extracted: 04/30/2013 14:42

Sample wt/vol: 14.95(g) | Date Analyzed: 05/02/2013 21:42

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.: 137070 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	80	J	140	28
208-96-8	Acenaphthylene	98		57	7.1
120-12-7	Anthracene	300		12	6.0
56-55-3	Benzo[a]anthracene	720		11	5.5
50-32-8	Benzo[a]pyrene	510		15	7.4
205-99-2	Benzo[b]fluoranthene	780		17	8.7
191-24-2	Benzo[g,h,i]perylene	280		28	6.2
207-08-9	Benzo[k]fluoranthene	330		11	5.1
218-01-9	Chrysene	800		13	6.4
53-70-3	Dibenz(a,h)anthracene	130		28	5.8
206-44-0	Fluoranthene	1300		28	5.7
86-73-7	Fluorene	110		28	5.8
193-39-5	Indeno[1,2,3-cd]pyrene	290		28	10
90-12-0	1-Methylnaphthalene	280		57	6.2
91-57-6	2-Methylnaphthalene	240		57	10
91-20-3	Naphthalene	190		57	6.2
85-01-8	Phenanthrene	1300		11	5.5
129-00-0	Pyrene	920		28	5.2

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02027.D
Lab Smp Id: 680-89791-A-30-A Client Smp ID: CV1227C-CS
Inj Date : 02-MAY-2013 21:42
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89791-a-30-a
Misc Info : 680-89791-A-30-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\a-bFASTPAHi-m.m
Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 24
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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	29.274	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.563	2.550	(1.000)	1072650	40.0000	
* 6 Acenaphthene-d10	164	3.589	3.581	(1.000)	546473	40.0000	
* 10 Phenanthrene-d10	188	4.545	4.532	(1.000)	792654	40.0000	
$ 14 o-Terphenyl	230	4.839	4.831	(1.065)	54484	4.20240	397.4447
* 18 Chrysene-d12	240	6.575	6.551	(1.000)	795934	40.0000	
* 23 Perylene-d12	264	7.670	7.641	(1.000)	958375	40.0000	
2 Naphthalene	128	2.574	2.560	(1.004)	53913	2.01063	190.1563
3 2-Methylnaphthalene	141	2.980	2.972	(1.163)	39410	2.56357	242.4515
4 1-Methylnaphthalene	142	3.033	3.025	(1.183)	49640	2.91449	275.6404
5 Acenaphthylene	152	3.503	3.490	(0.976)	33068	1.03540	97.9237
7 Acenaphthene	154	3.605	3.597	(1.004)	14086	0.84102	79.5398
9 Fluorene	166	3.920	3.912	(1.092)	22584	1.12074	105.9943
11 Phenanthrene	178	4.561	4.548	(1.004)	322912	14.0631	1330.0309
12 Anthracene	178	4.593	4.580	(1.011)	76188	3.19110	301.8009

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	4.732	4.713	(1.041)	43981	1.90955	180.5967
15 Fluoranthene	202	5.432	5.413	(1.195)	378334	14.2654	1349.1571
16 Pyrene	202	5.597	5.579	(0.851)	294012	9.68245	915.7250
17 Benzo(a)anthracene	228	6.569	6.540	(0.999)	197436	7.59577	718.3760
19 Chrysene	228	6.591	6.572	(1.002)	222040	8.42008	796.3354
20 Benzo(b)fluoranthene	252	7.392	7.363	(0.964)	240351	8.26071	781.2624(M)
21 Benzo(k)fluoranthene	252	7.403	7.384	(0.965)	115713	3.45900	327.1377(M)
22 Benzo(a)pyrene	252	7.616	7.593	(0.993)	155448	5.37048	507.9173
24 Indeno(1,2,3-cd)pyrene	276	8.450	8.405	(1.102)	84170	3.07977	291.2713(M)
25 Dibenzo(a,h)anthracene	278	8.466	8.431	(1.104)	35526	1.39706	132.1275
26 Benzo(g,h,i)perylene	276	8.674	8.624	(1.131)	91713	2.99839	283.5745

QC Flag Legend

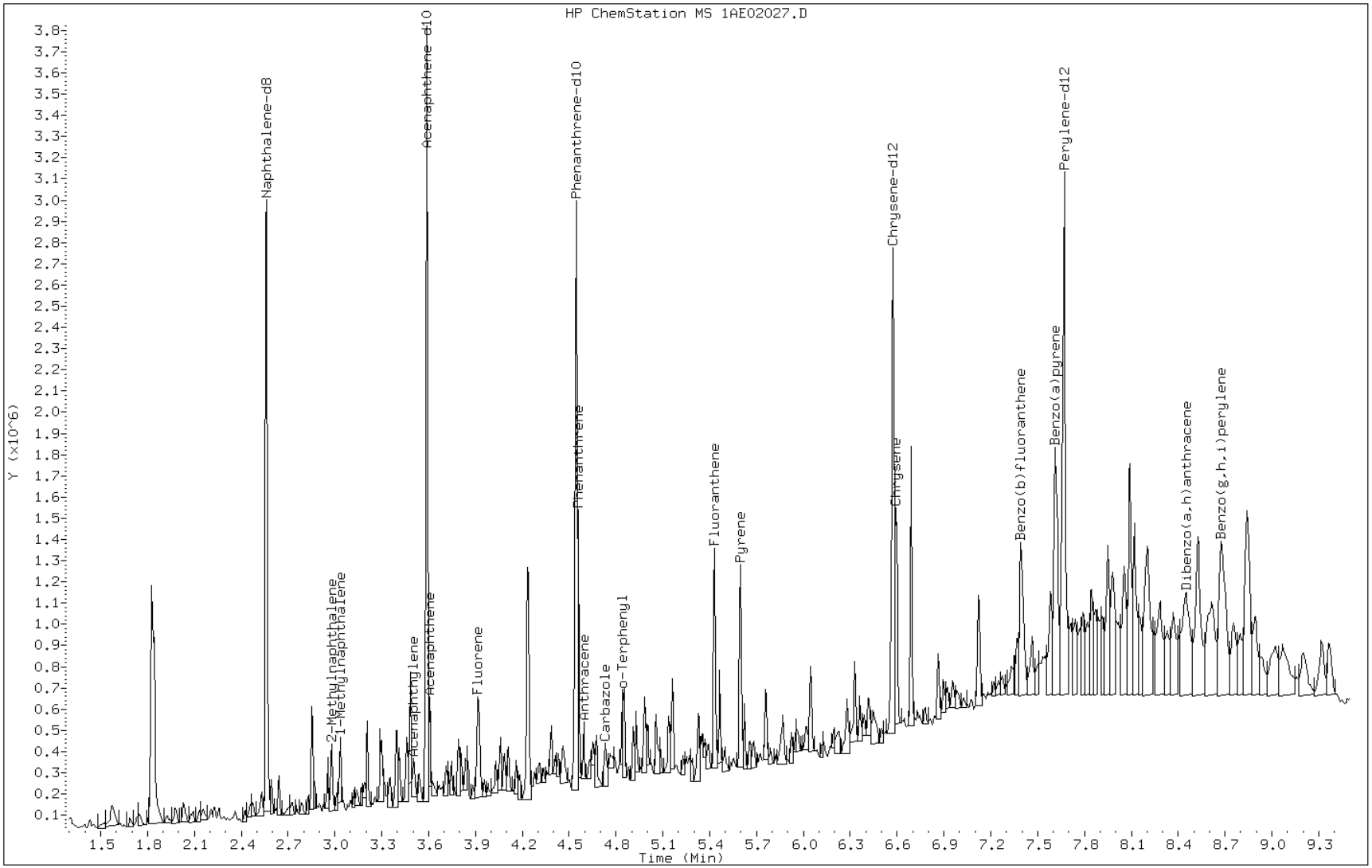
M - Compound response manually integrated.

Data File: 1AE02027.D

Date: 02-MAY-2013 21:42

Client ID: CV1227C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-30-a Operator: SCC



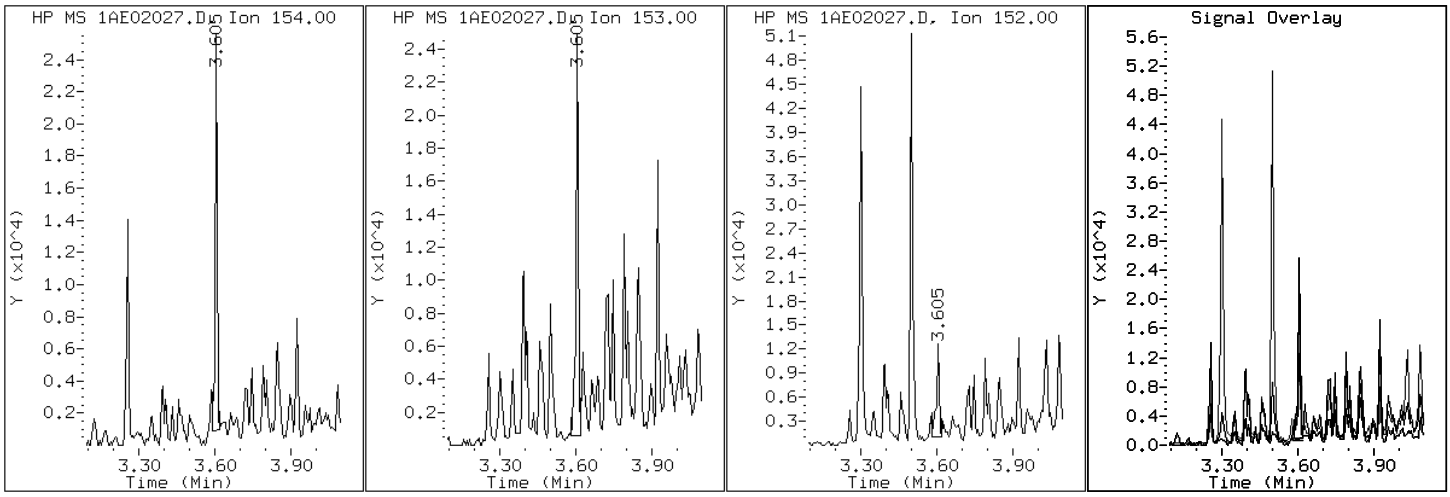
Data File: 1AE02027.D

Date: 02-MAY-2013 21:42

Client ID: CV1227C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-30-a Operator: SCC

7 Acenaphthene



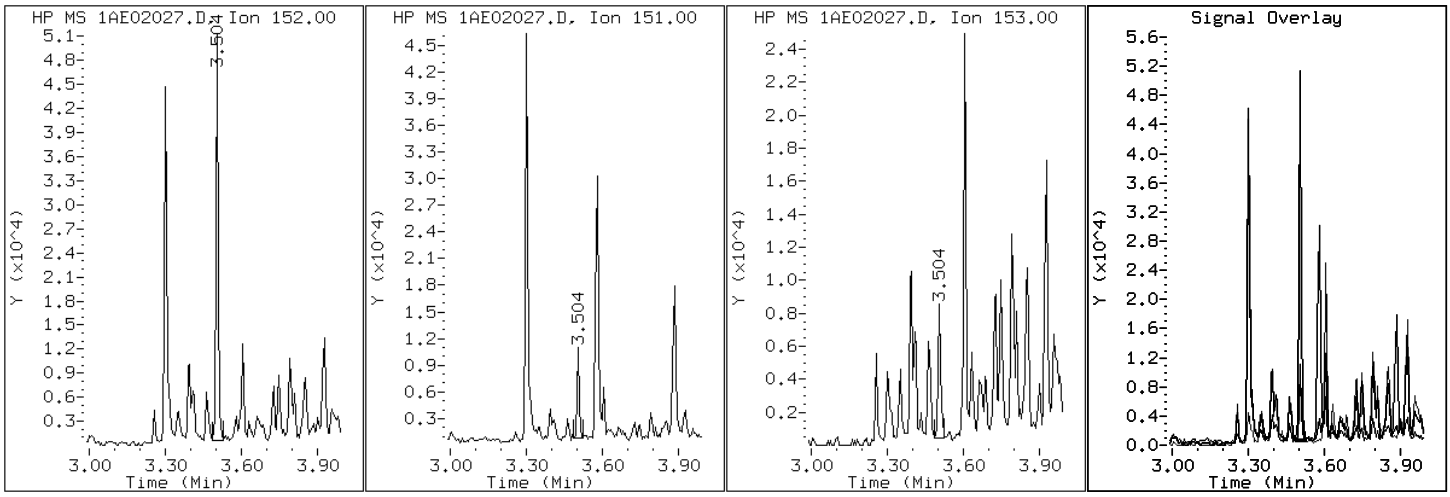
Data File: 1AE02027.D

Date: 02-MAY-2013 21:42

Client ID: CV1227C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-30-a Operator: SCC

5 Acenaphthylene



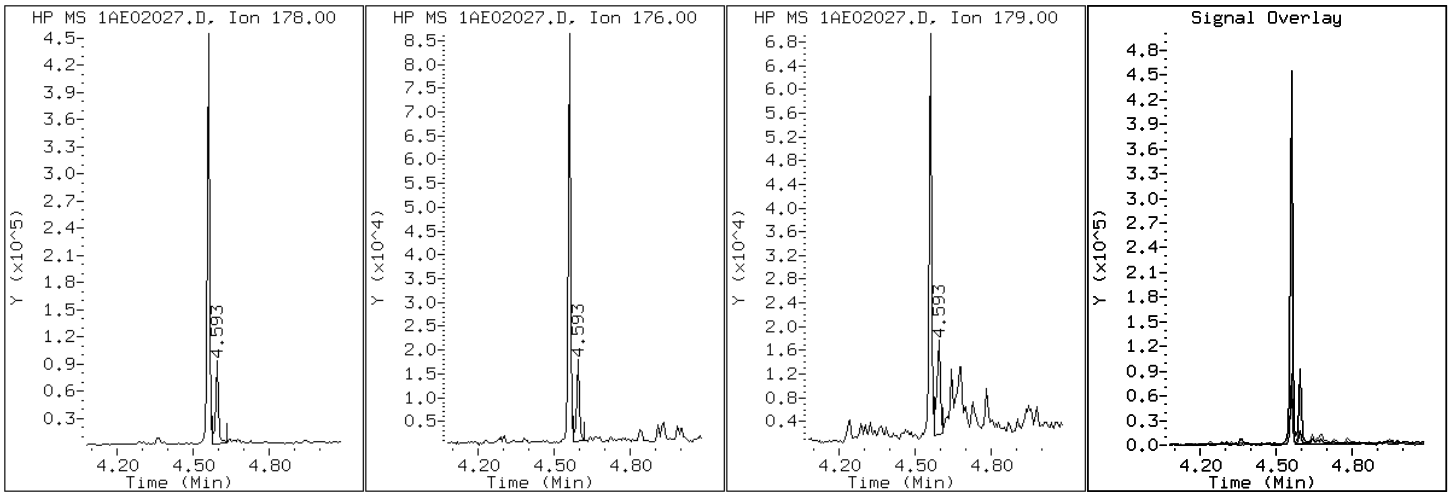
Data File: 1AE02027.D

Date: 02-MAY-2013 21:42

Client ID: CV1227C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-30-a Operator: SCC

12 Anthracene



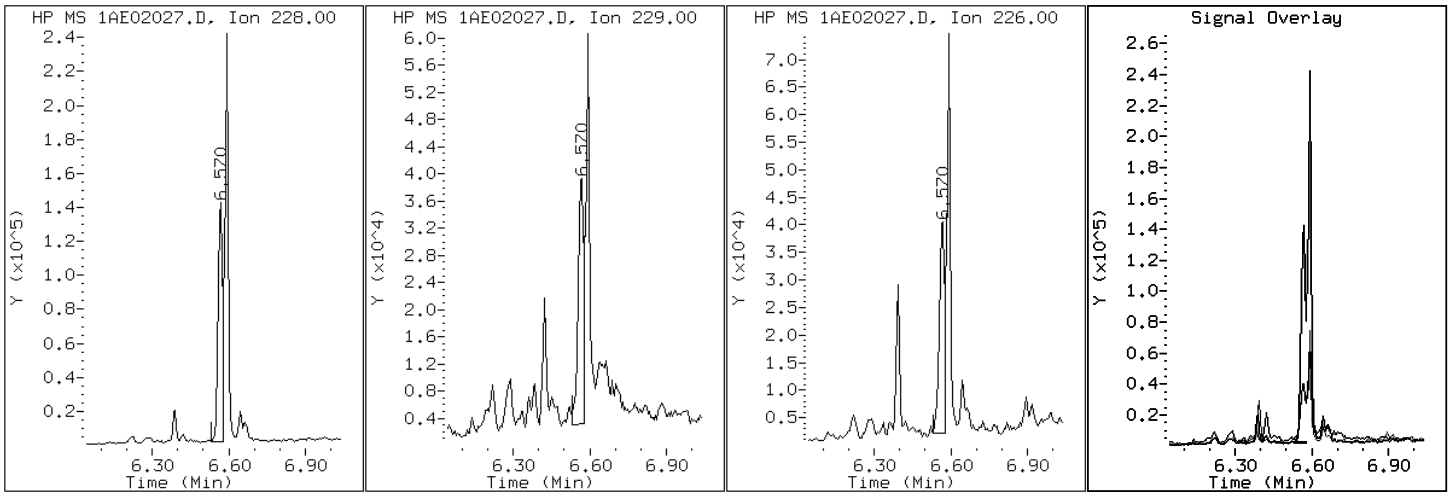
Data File: 1AE02027.D

Date: 02-MAY-2013 21:42

Client ID: CV1227C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-30-a Operator: SCC

17 Benzo(a)anthracene



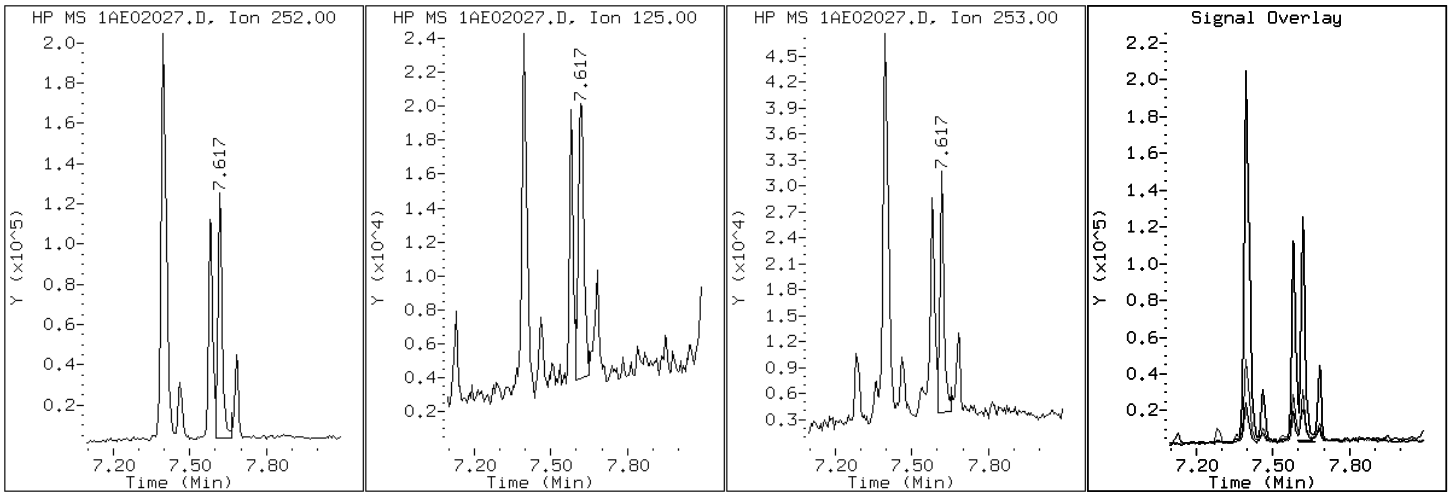
Data File: 1AE02027.D

Date: 02-MAY-2013 21:42

Client ID: CV1227C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-30-a Operator: SCC

22 Benzo(a)pyrene



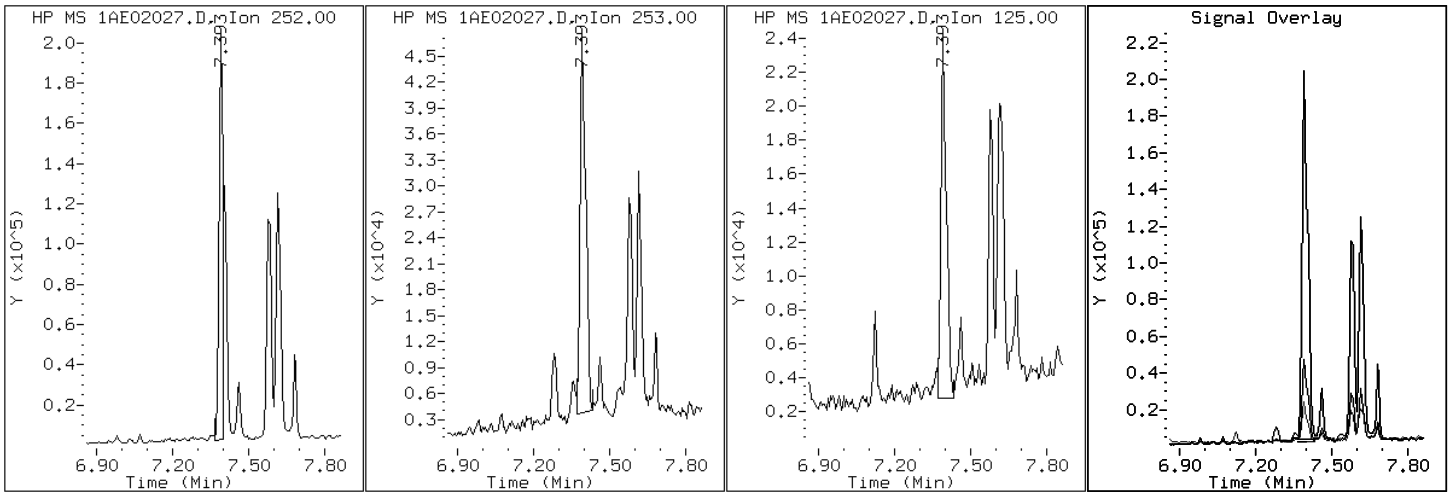
Data File: 1AE02027.D

Date: 02-MAY-2013 21:42

Client ID: CV1227C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-30-a Operator: SCC

20 Benzo(b)fluoranthene



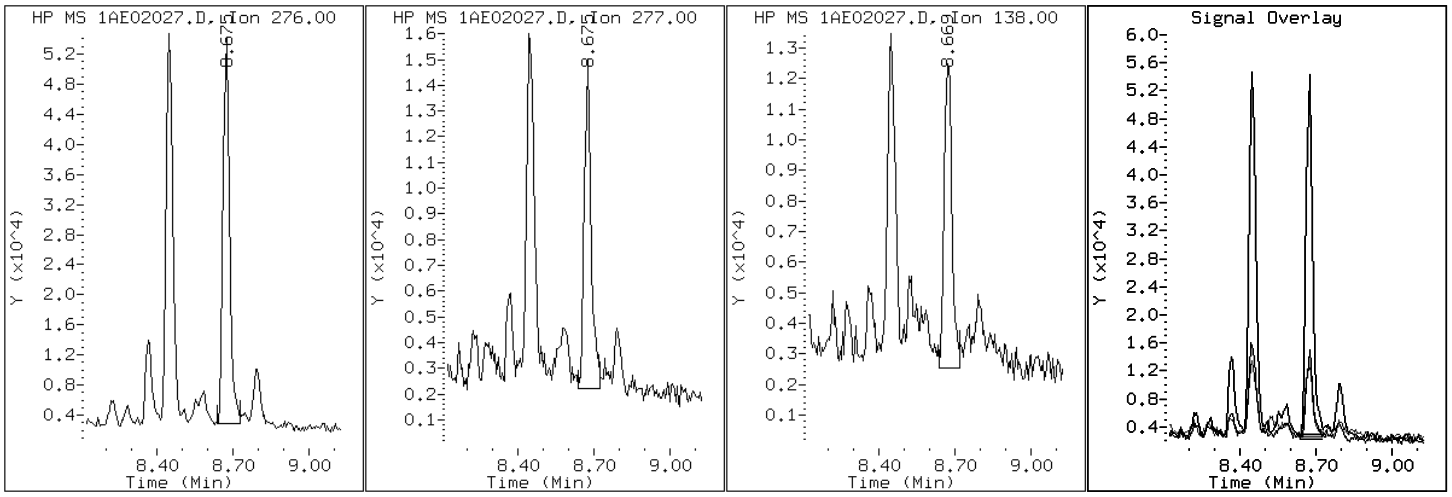
Data File: 1AE02027.D

Date: 02-MAY-2013 21:42

Client ID: CV1227C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-30-a Operator: SCC

26 Benzo(g,h,i)perylene



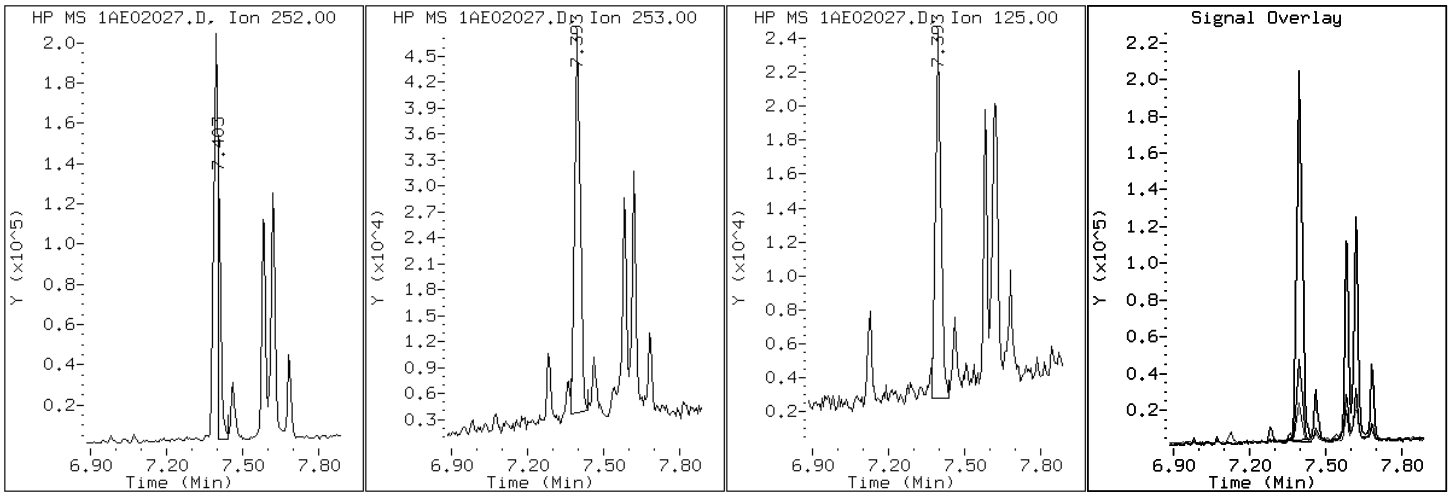
Data File: 1AE02027.D

Date: 02-MAY-2013 21:42

Client ID: CV1227C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-30-a Operator: SCC

21 Benzo(k)fluoranthene



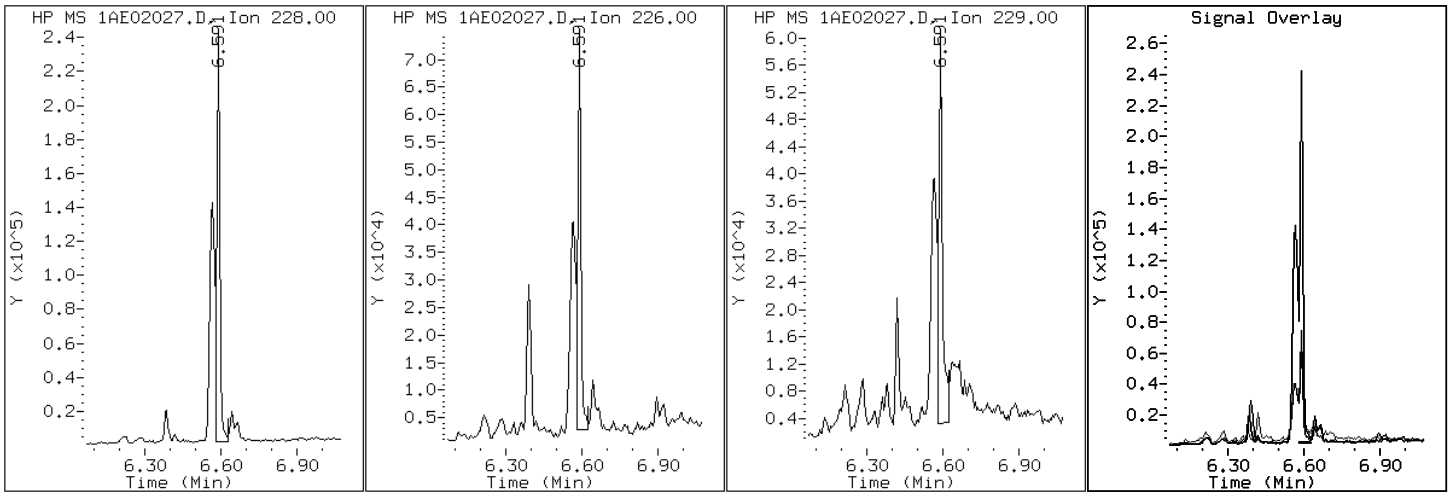
Data File: 1AE02027.D

Date: 02-MAY-2013 21:42

Client ID: CV1227C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-30-a Operator: SCC

19 Chrysene



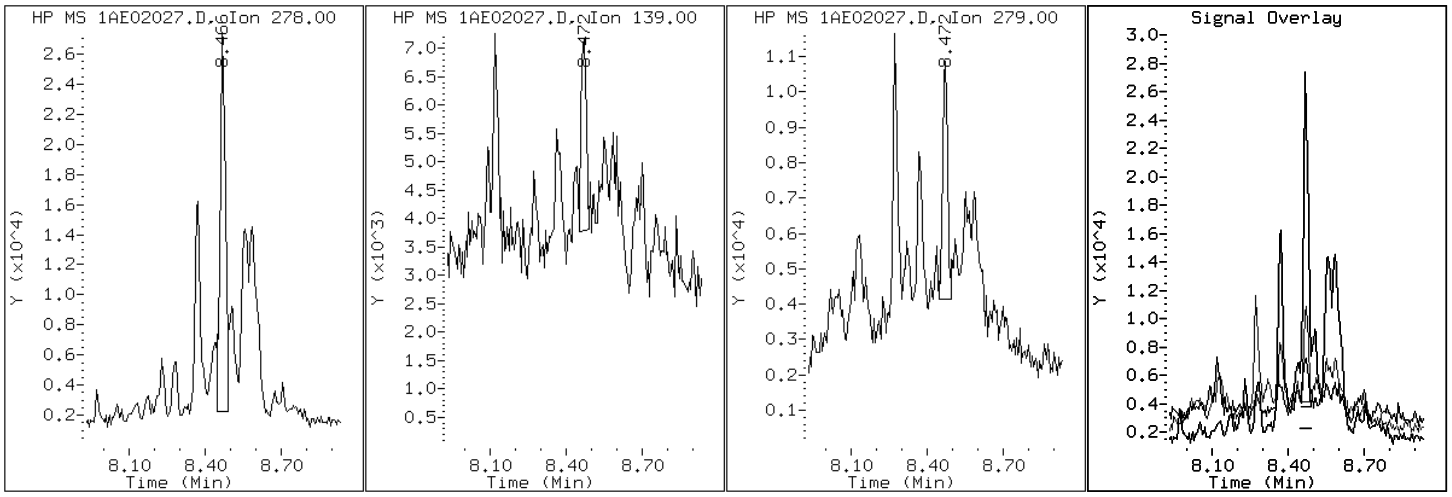
Data File: 1AE02027.D

Date: 02-MAY-2013 21:42

Client ID: CV1227C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-30-a Operator: SCC

25 Dibenzo(a,h)anthracene



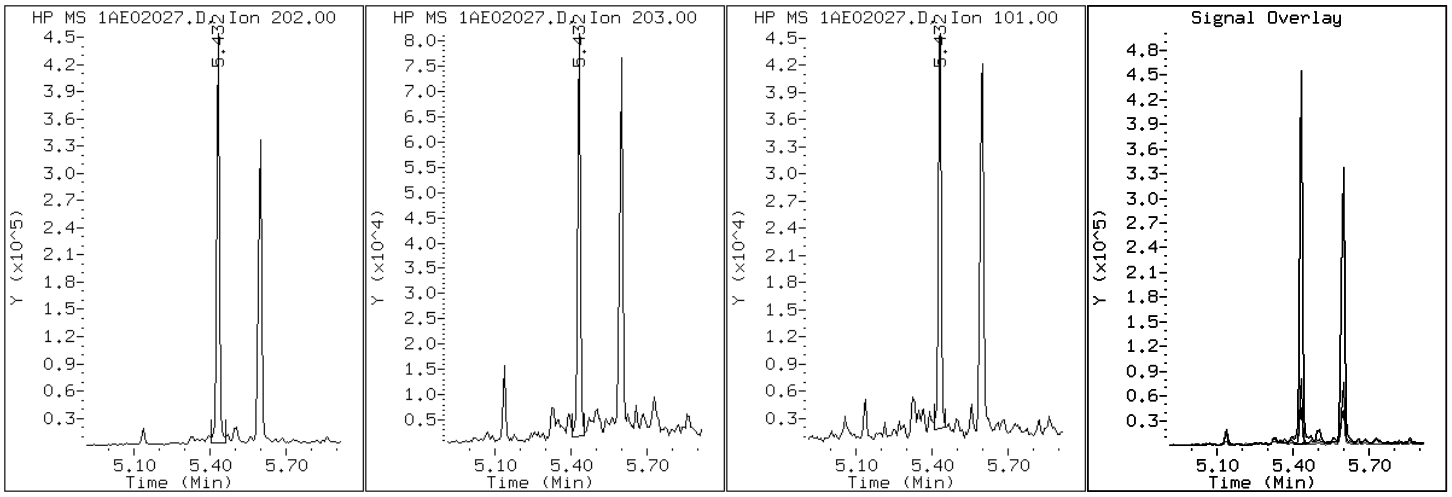
Data File: 1AE02027.D

Date: 02-MAY-2013 21:42

Client ID: CV1227C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-30-a Operator: SCC

15 Fluoranthene



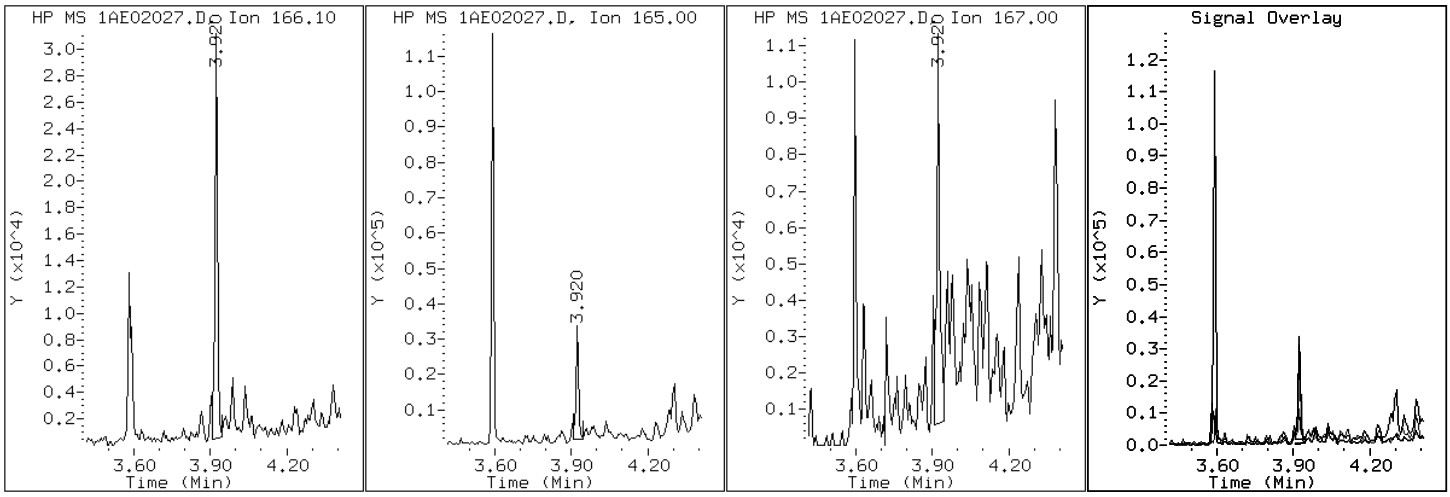
Data File: 1AE02027.D

Date: 02-MAY-2013 21:42

Client ID: CV1227C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-30-a Operator: SCC

9 Fluorene



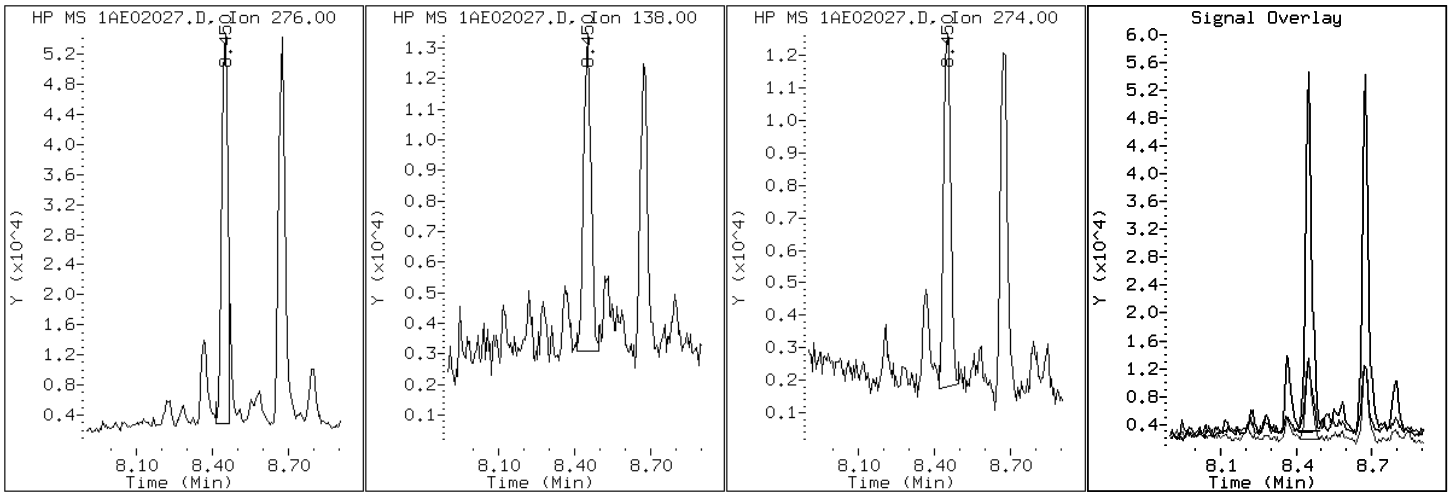
Data File: 1AE02027.D

Date: 02-MAY-2013 21:42

Client ID: CV1227C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-30-a Operator: SCC

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



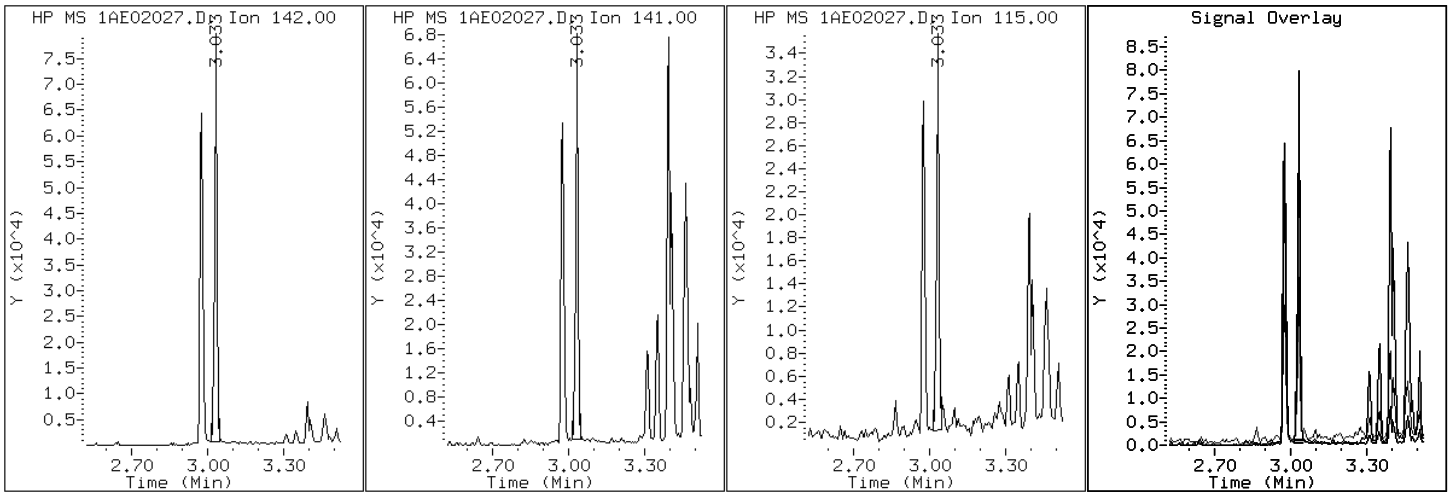
Data File: 1AE02027.D

Date: 02-MAY-2013 21:42

Client ID: CV1227C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-30-a Operator: SCC

4 1-Methylnaphthalene



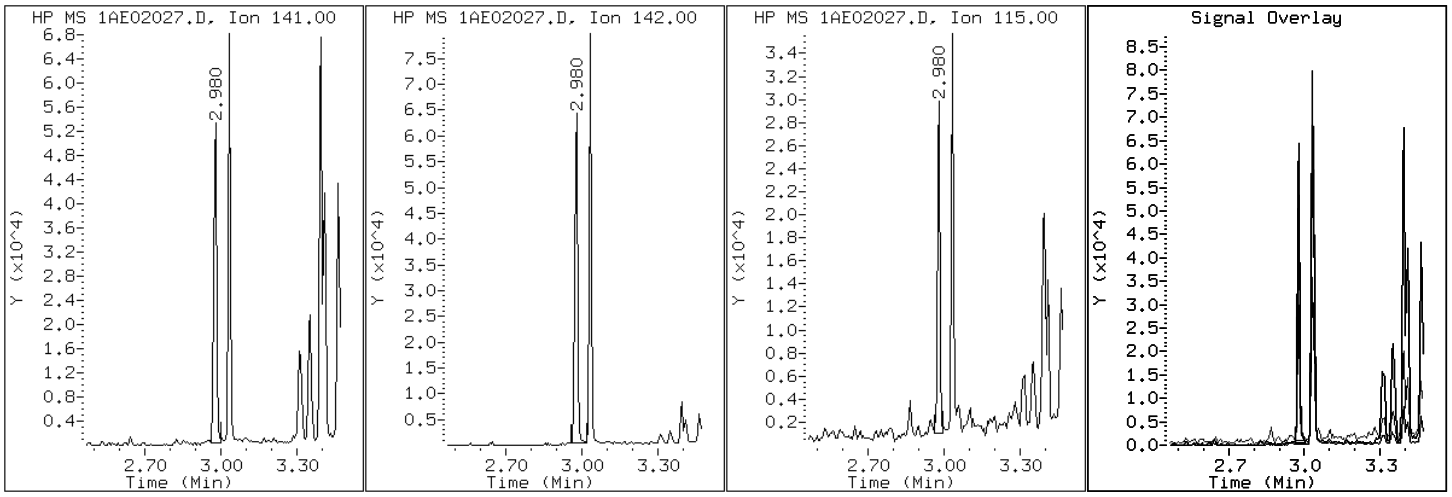
Data File: 1AE02027.D

Date: 02-MAY-2013 21:42

Client ID: CV1227C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-30-a Operator: SCC

3 2-Methylnaphthalene



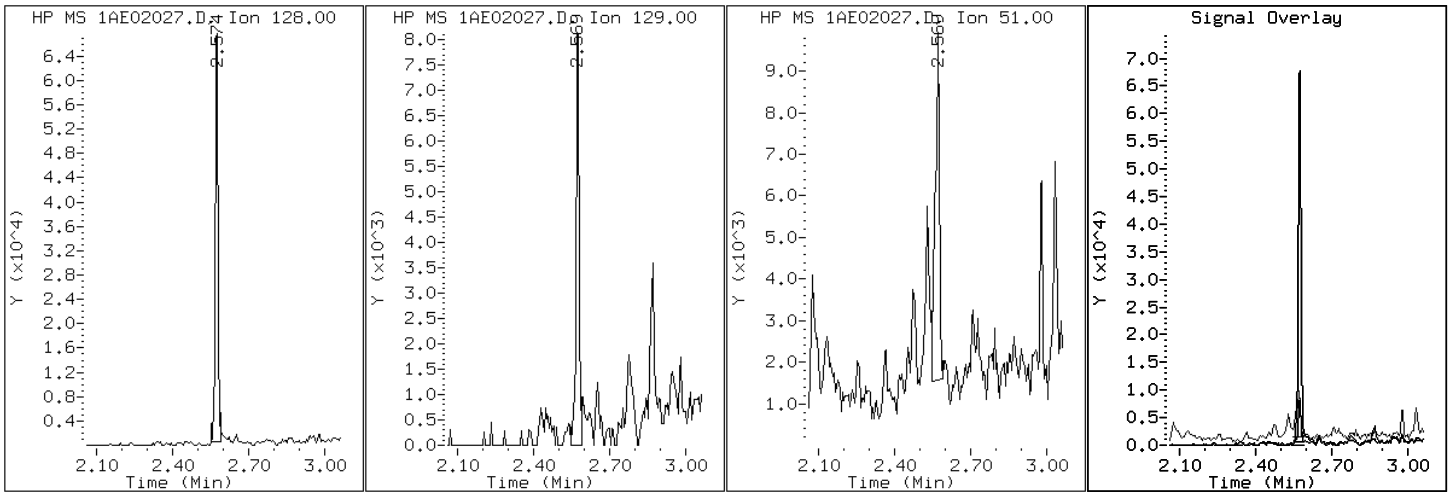
Data File: 1AE02027.D

Date: 02-MAY-2013 21:42

Client ID: CV1227C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-30-a Operator: SCC

2 Naphthalene



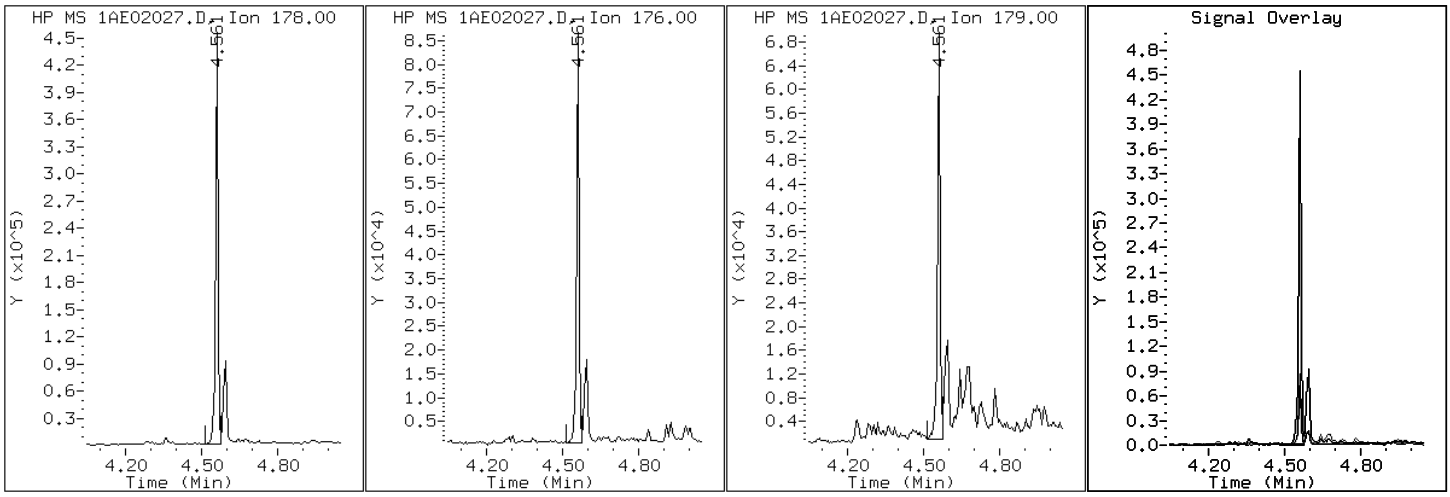
Data File: 1AE02027.D

Date: 02-MAY-2013 21:42

Client ID: CV1227C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-30-a Operator: SCC

11 Phenanthrene



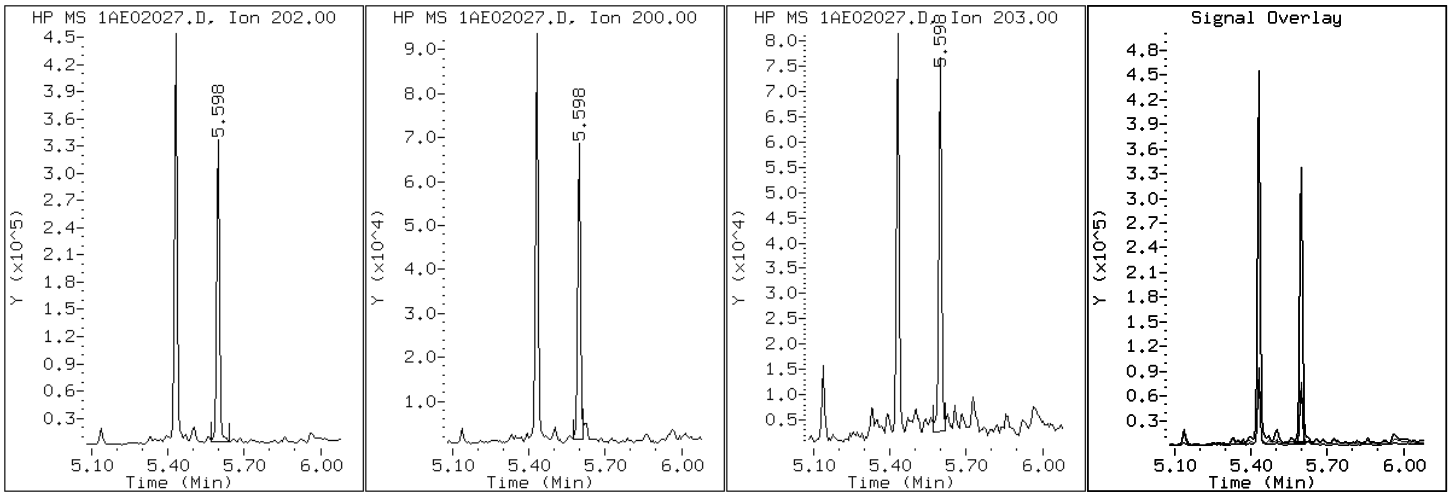
Data File: 1AE02027.D

Date: 02-MAY-2013 21:42

Client ID: CV1227C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-30-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE02027.D
Inj. Date and Time: 02-MAY-2013 21:42
Instrument ID: BSMA5973.i
Client ID: CV1227C-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/03/2013

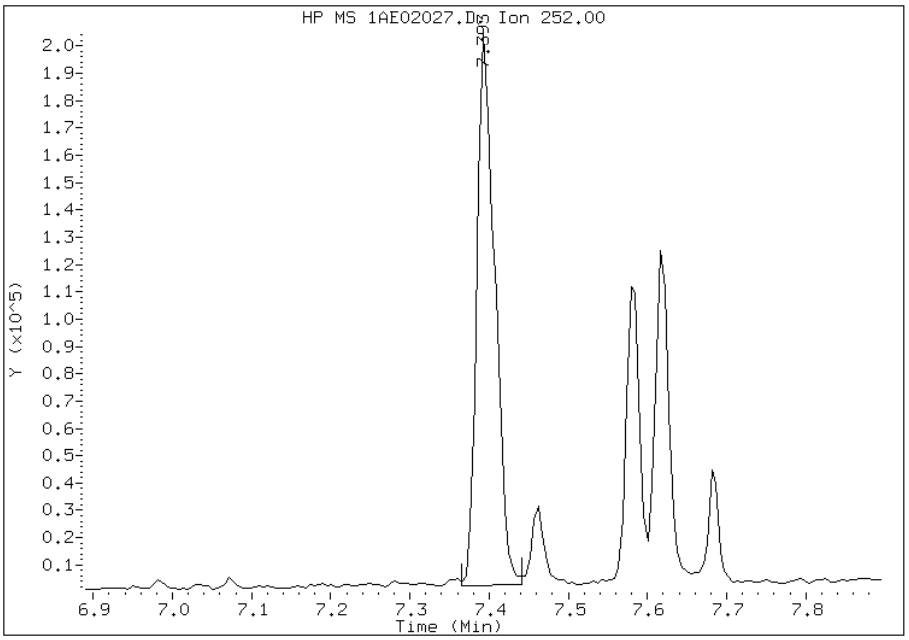
Processing Integration Results

RT: 7.39

Response: 313493

Amount: 11

Conc: 1019



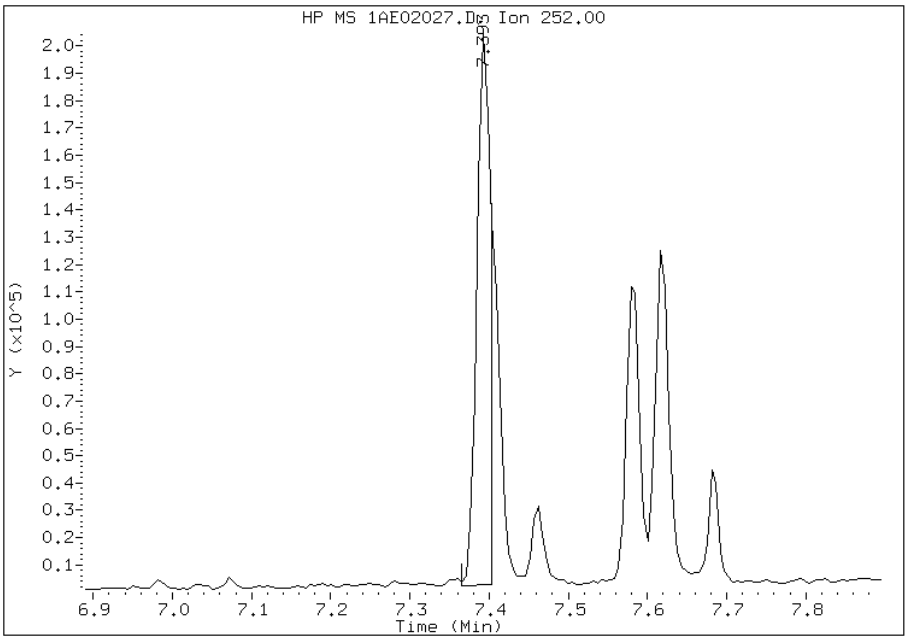
Manual Integration Results

RT: 7.39

Response: 240351

Amount: 8

Conc: 781



Manually Integrated By: cantins
Modification Date: 03-May-2013 11:59
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE02027.D
Inj. Date and Time: 02-MAY-2013 21:42
Instrument ID: BSMA5973.i
Client ID: CV1227C-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/03/2013

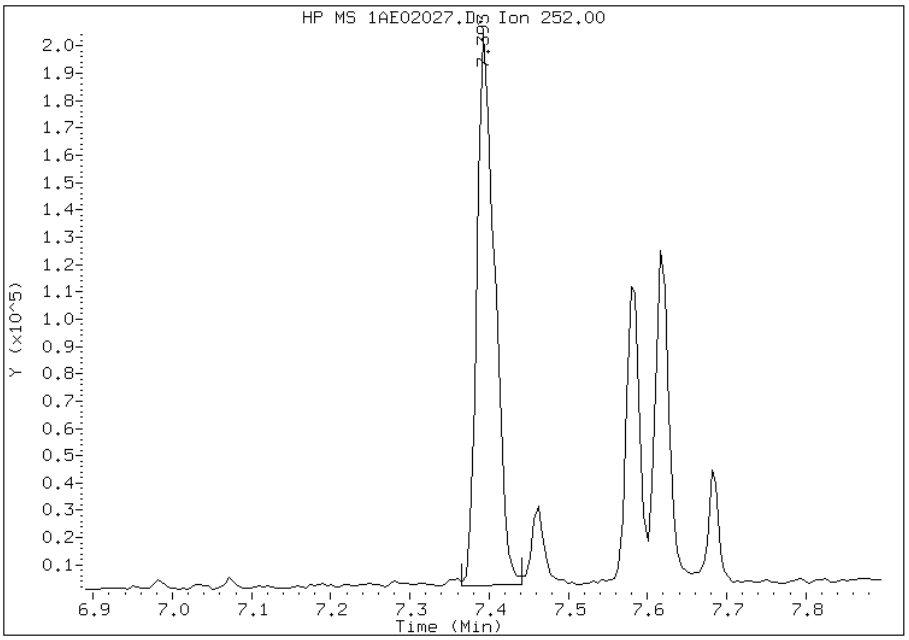
Processing Integration Results

RT: 7.39

Response: 313493

Amount: 9

Conc: 886



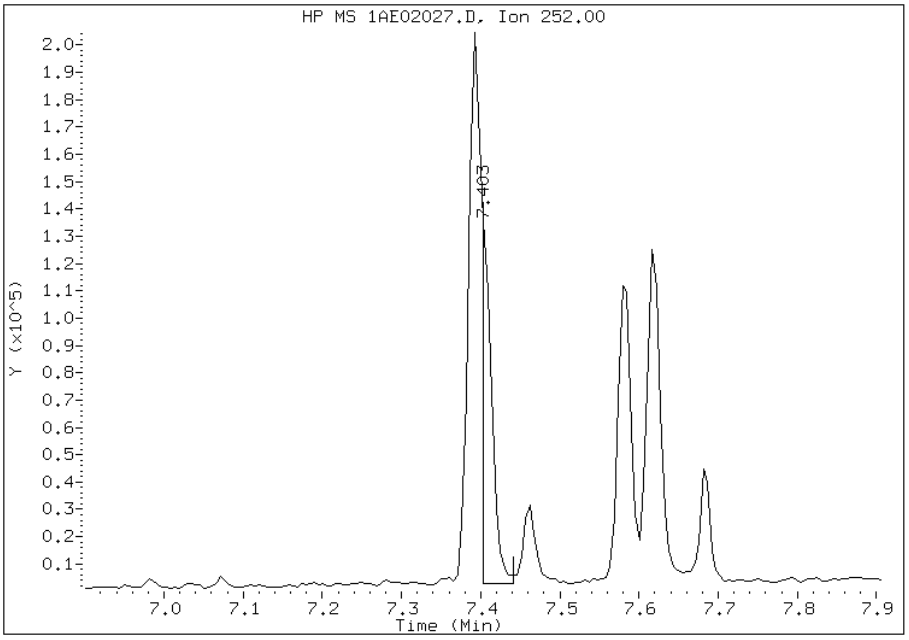
Manual Integration Results

RT: 7.40

Response: 115713

Amount: 3

Conc: 327



Manually Integrated By: cantins
Modification Date: 03-May-2013 11:59
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE02027.D
Inj. Date and Time: 02-MAY-2013 21:42
Instrument ID: BSMA5973.i
Client ID: CV1227C-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/03/2013

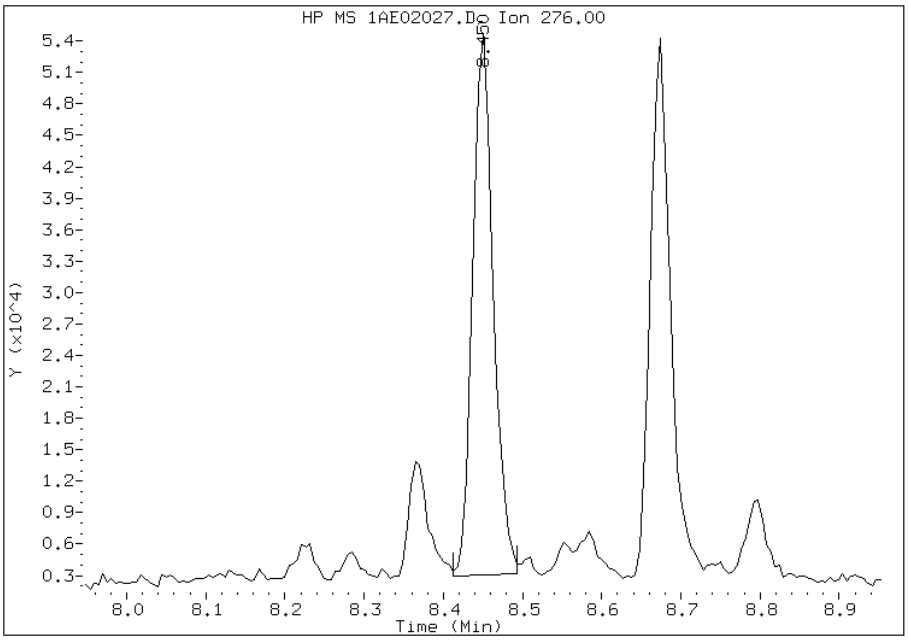
Processing Integration Results

RT: 8.45

Response: 92342

Amount: 3

Conc: 320



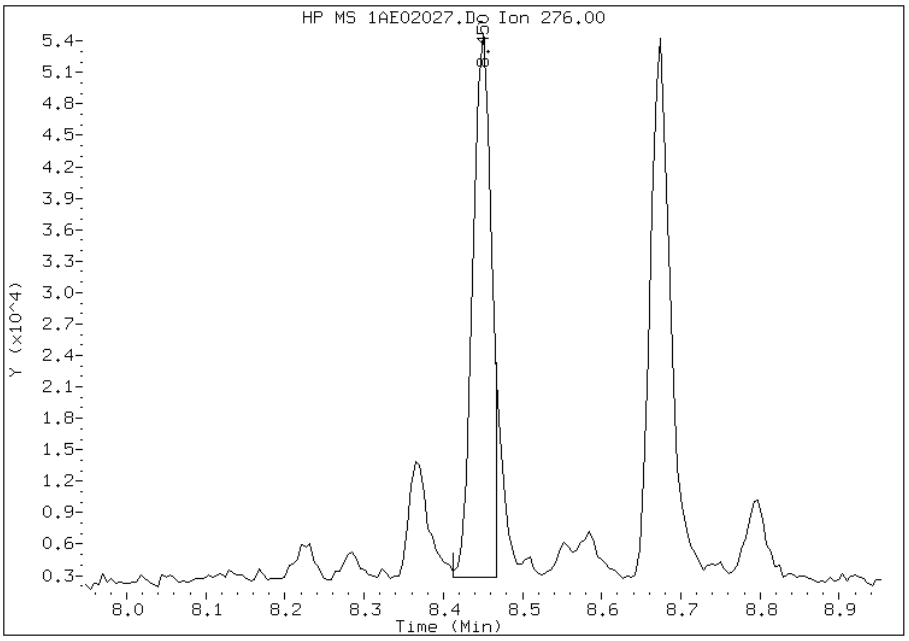
Manual Integration Results

RT: 8.45

Response: 84170

Amount: 3

Conc: 291



Manually Integrated By: cantins
Modification Date: 03-May-2013 12:00
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: CV1228A-CS | Lab Sample ID: 680-89791-31

Matrix: Solid | Lab File ID: 1AE02028.D

Analysis Method: 8270C LL | Date Collected: 04/25/2013 11:15

Extract. Method: 3546 | Date Extracted: 04/30/2013 14:42

Sample wt/vol: 15.03(g) | Date Analyzed: 05/02/2013 21:57

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137070 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	470	U	470	95
208-96-8	Acenaphthylene	190	U	190	24
120-12-7	Anthracene	36	J	40	20
56-55-3	Benzo[a]anthracene	110		38	19
50-32-8	Benzo[a]pyrene	60		49	25
205-99-2	Benzo[b]fluoranthene	100		58	29
191-24-2	Benzo[g,h,i]perylene	41	J	95	21
207-08-9	Benzo[k]fluoranthene	45		38	17
218-01-9	Chrysene	110		43	21
53-70-3	Dibenz(a,h)anthracene	95	U	95	19
206-44-0	Fluoranthene	110		95	19
86-73-7	Fluorene	95	U	95	19
193-39-5	Indeno[1,2,3-cd]pyrene	48	J	95	34
90-12-0	1-Methylnaphthalene	180	J	190	21
91-57-6	2-Methylnaphthalene	220		190	34
91-20-3	Naphthalene	170	J	190	21
85-01-8	Phenanthrene	180		38	19
129-00-0	Pyrene	100		95	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	49		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02028.D
Lab Smp Id: 680-89791-A-31-A Client Smp ID: CV1228A-CS
Inj Date : 02-MAY-2013 21:57
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89791-a-31-a
Misc Info : 680-89791-A-31-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\a-bFASTPAHi-m.m
Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 25
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.030	Weight Extracted
M	15.886	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.563	2.550	(1.000)	1165486	40.0000	
* 6 Acenaphthene-d10	164	3.589	3.581	(1.000)	621282	40.0000	
* 10 Phenanthrene-d10	188	4.545	4.532	(1.000)	852173	40.0000	
$ 14 o-Terphenyl	230	4.839	4.831	(1.065)	17129	1.22890	388.8197
* 18 Chrysene-d12	240	6.570	6.551	(1.000)	830580	40.0000	
* 23 Perylene-d12	264	7.665	7.641	(1.000)	925117	40.0000	
2 Naphthalene	128	2.574	2.560	(1.004)	15402	0.52865	167.2623
3 2-Methylnaphthalene	141	2.980	2.972	(1.163)	11835	0.70853	224.1767
4 1-Methylnaphthalene	142	3.033	3.025	(1.183)	10613	0.57348	181.4483
11 Phenanthrene	178	4.556	4.548	(1.002)	13869	0.56182	177.7588
12 Anthracene	178	4.593	4.580	(1.011)	2933	0.11427	36.1538(Q)
15 Fluoranthene	202	5.426	5.413	(1.194)	9505	0.33336	105.4745
16 Pyrene	202	5.592	5.579	(0.851)	10224	0.32265	102.0867
17 Benzo(a)anthracene	228	6.564	6.540	(0.999)	9678	0.35680	112.8910

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
19 Chrysene	228	6.586	6.572	(1.002)	9444	0.34319	108.5848
20 Benzo(b)fluoranthene	252	7.382	7.363	(0.963)	8837	0.31464	99.5514(M)
21 Benzo(k)fluoranthene	252	7.392	7.384	(0.964)	4617	0.14298	45.2376(QM)
22 Benzo(a)pyrene	252	7.606	7.593	(0.992)	5321	0.19044	60.2549
24 Indeno(1,2,3-cd)pyrene	276	8.429	8.405	(1.100)	3966	0.15033	47.5646
26 Benzo(g,h,i)perylene	276	8.642	8.624	(1.128)	3802	0.12877	40.7417

QC Flag Legend

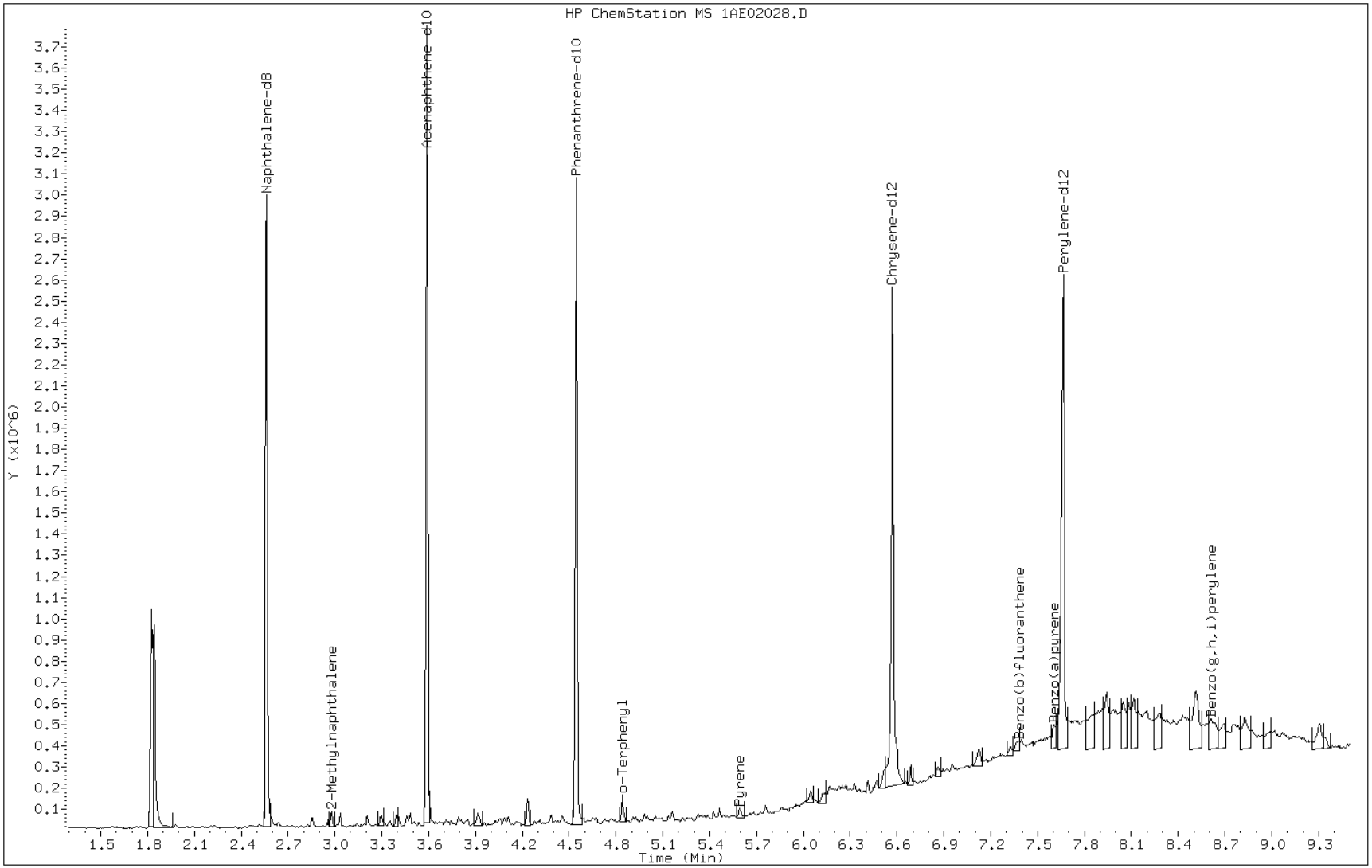
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE02028.D

Date: 02-MAY-2013 21:57

Client ID: CV1228A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-31-a Operator: SCC



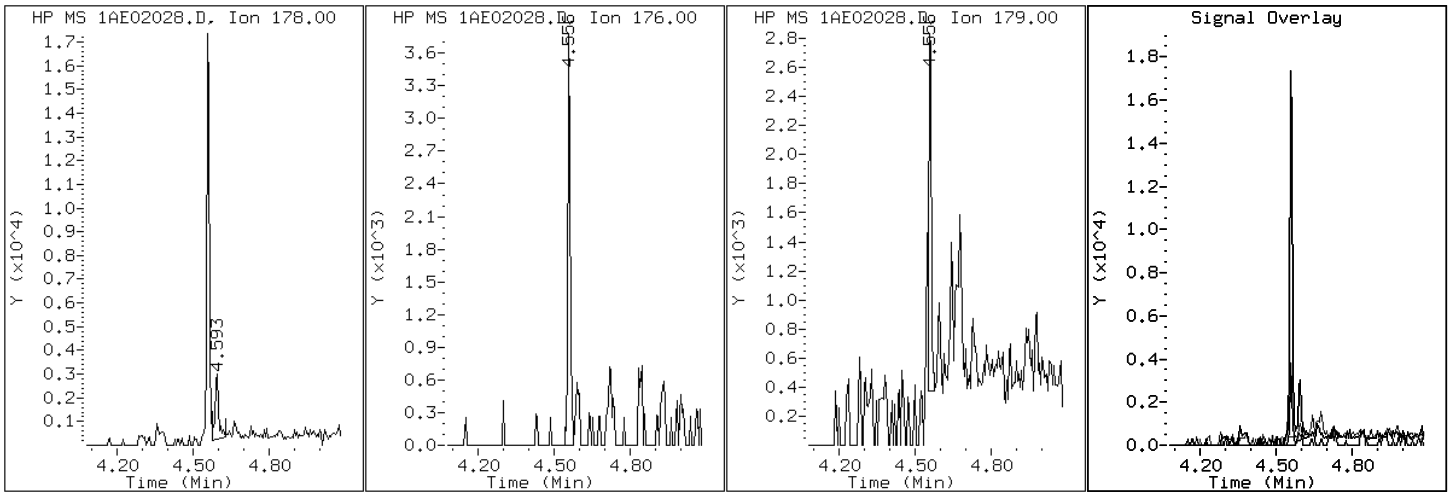
Data File: 1AE02028.D

Date: 02-MAY-2013 21:57

Client ID: CV1228A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-31-a Operator: SCC

12 Anthracene



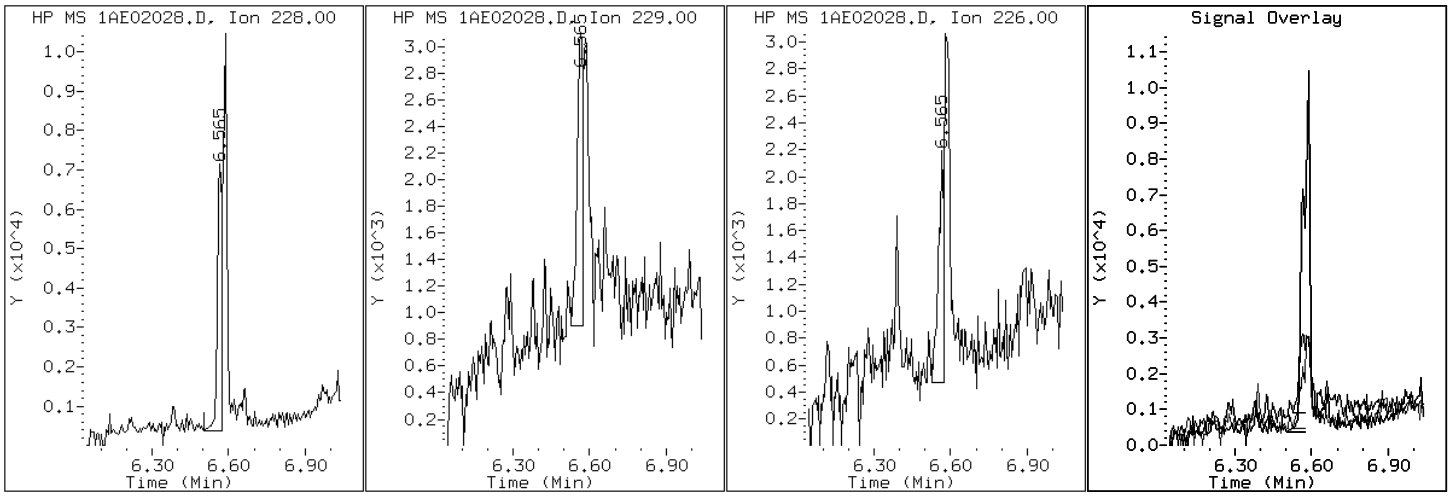
Data File: 1AE02028.D

Date: 02-MAY-2013 21:57

Client ID: CV1228A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-31-a Operator: SCC

17 Benzo(a)anthracene



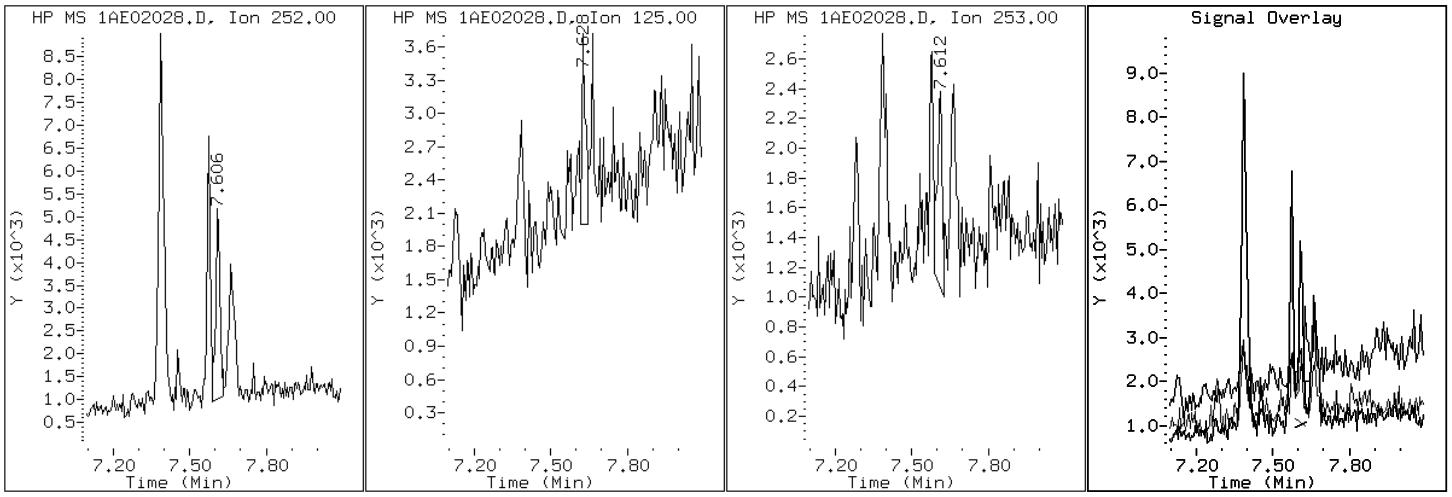
Data File: 1AE02028.D

Date: 02-MAY-2013 21:57

Client ID: CV1228A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-31-a Operator: SCC

22 Benzo(a)pyrene



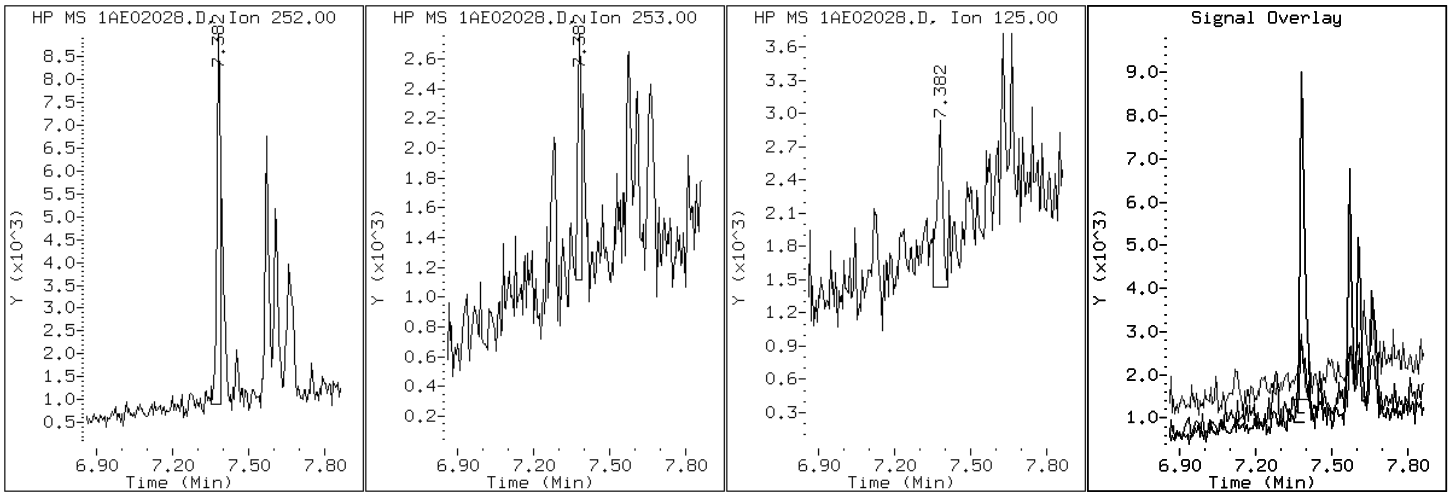
Data File: 1AE02028.D

Date: 02-MAY-2013 21:57

Client ID: CV1228A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-31-a Operator: SCC

20 Benzo(b)fluoranthene



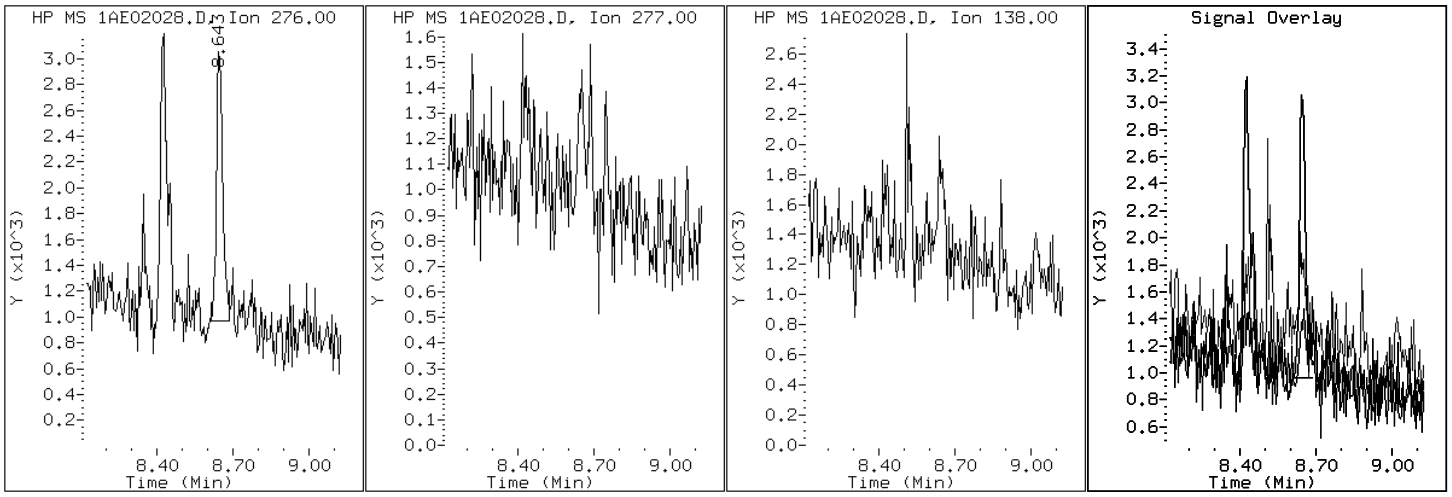
Data File: 1AE02028.D

Date: 02-MAY-2013 21:57

Client ID: CV1228A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-31-a Operator: SCC

26 Benzo(g,h,i)perylene



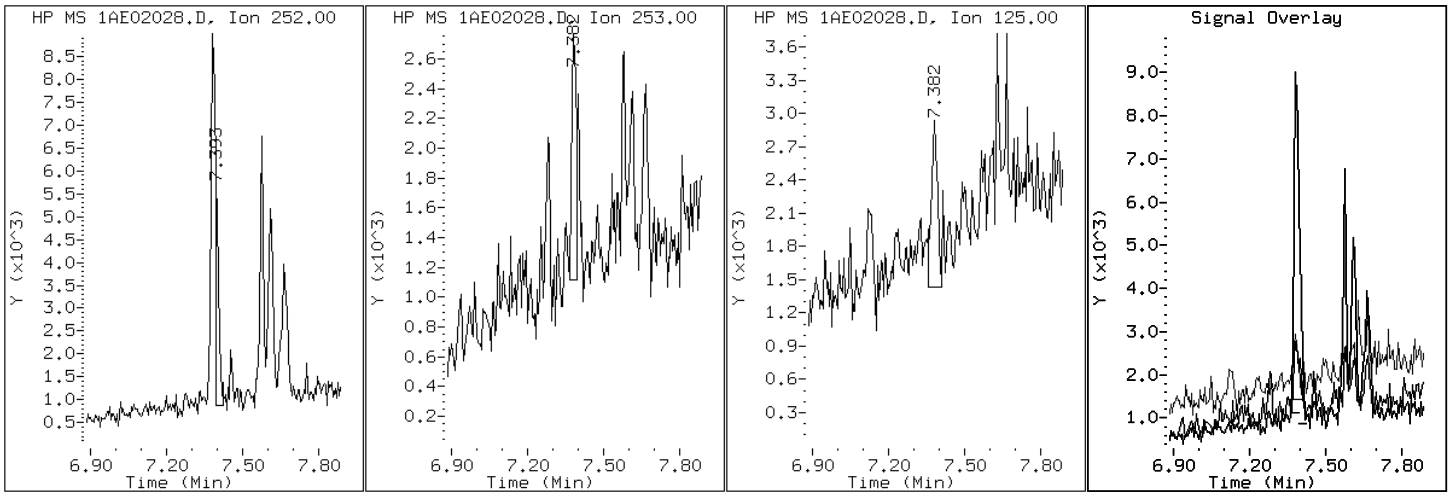
Data File: 1AE02028.D

Date: 02-MAY-2013 21:57

Client ID: CV1228A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-31-a Operator: SCC

21 Benzo(k)fluoranthene



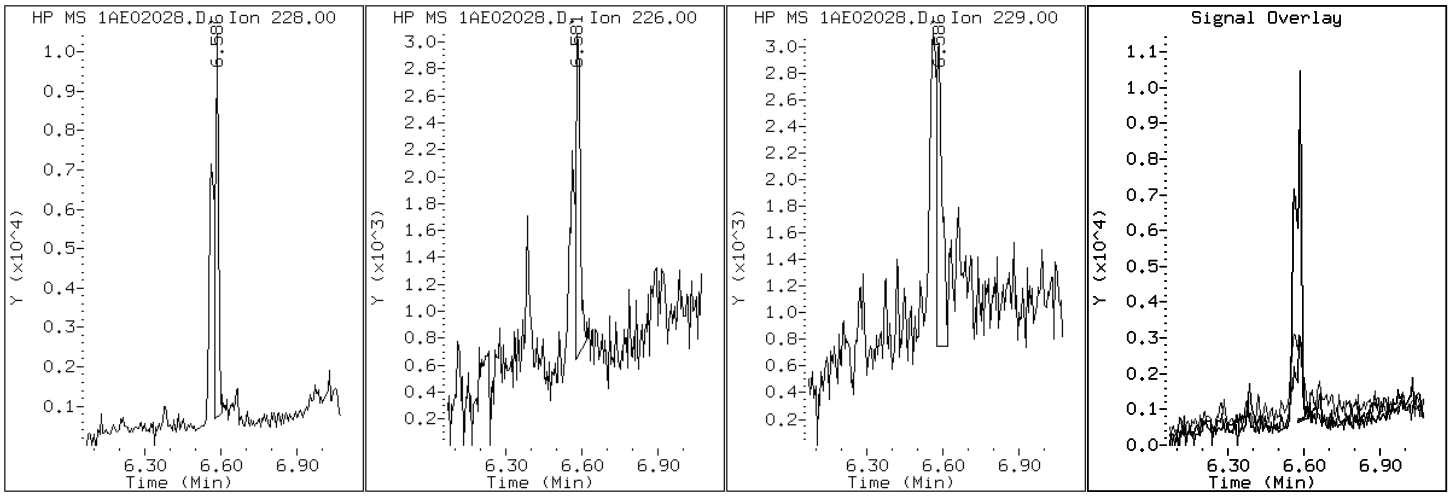
Data File: 1AE02028.D

Date: 02-MAY-2013 21:57

Client ID: CV1228A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-31-a Operator: SCC

19 Chrysene



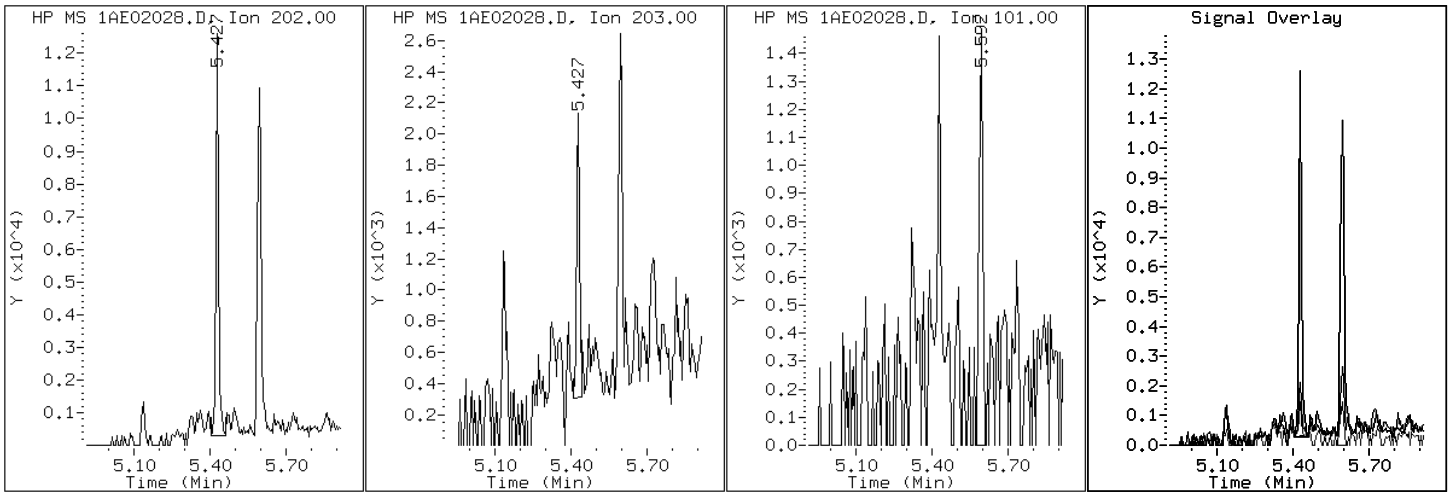
Data File: 1AE02028.D

Date: 02-MAY-2013 21:57

Client ID: CV1228A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-31-a Operator: SCC

15 Fluoranthene



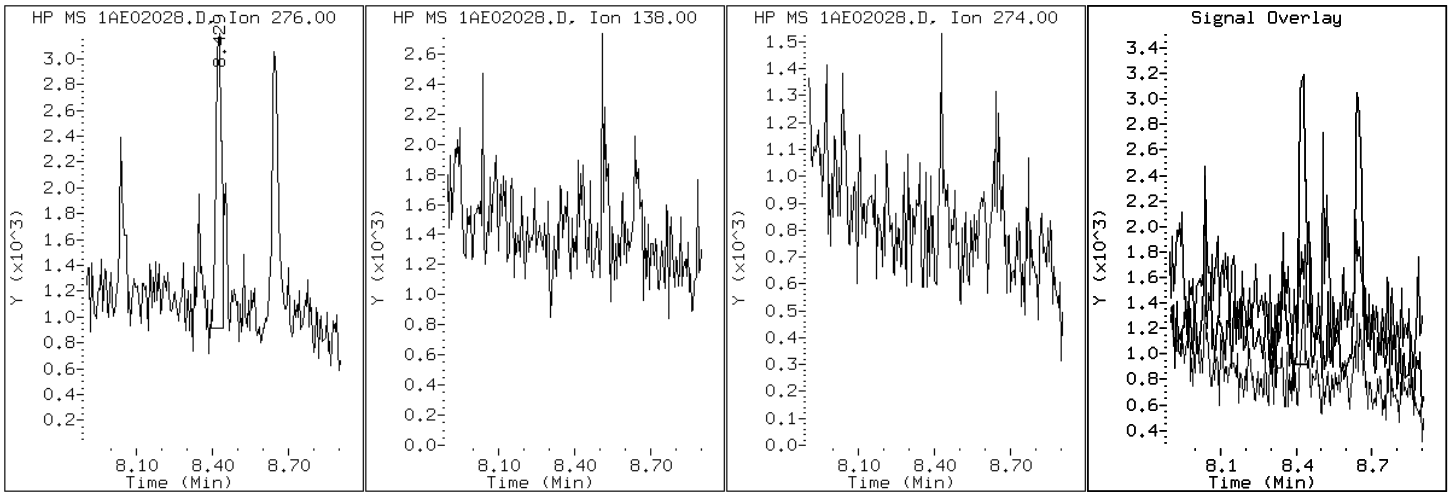
Data File: 1AE02028.D

Date: 02-MAY-2013 21:57

Client ID: CV1228A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-31-a Operator: SCC

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



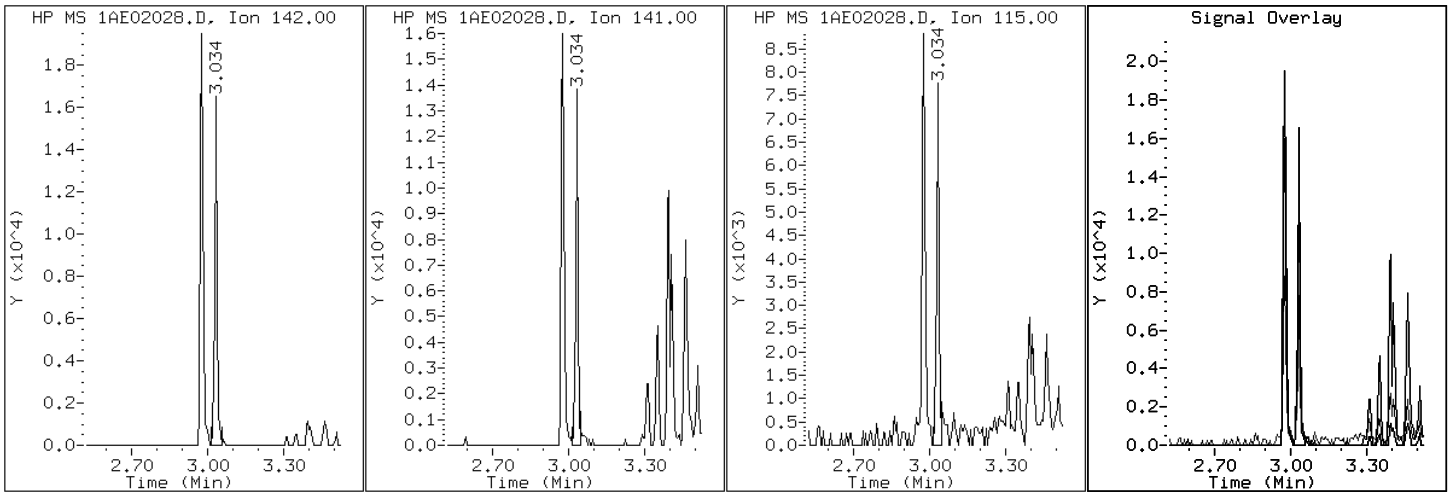
Data File: 1AE02028.D

Date: 02-MAY-2013 21:57

Client ID: CV1228A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-31-a Operator: SCC

4 1-Methylnaphthalene



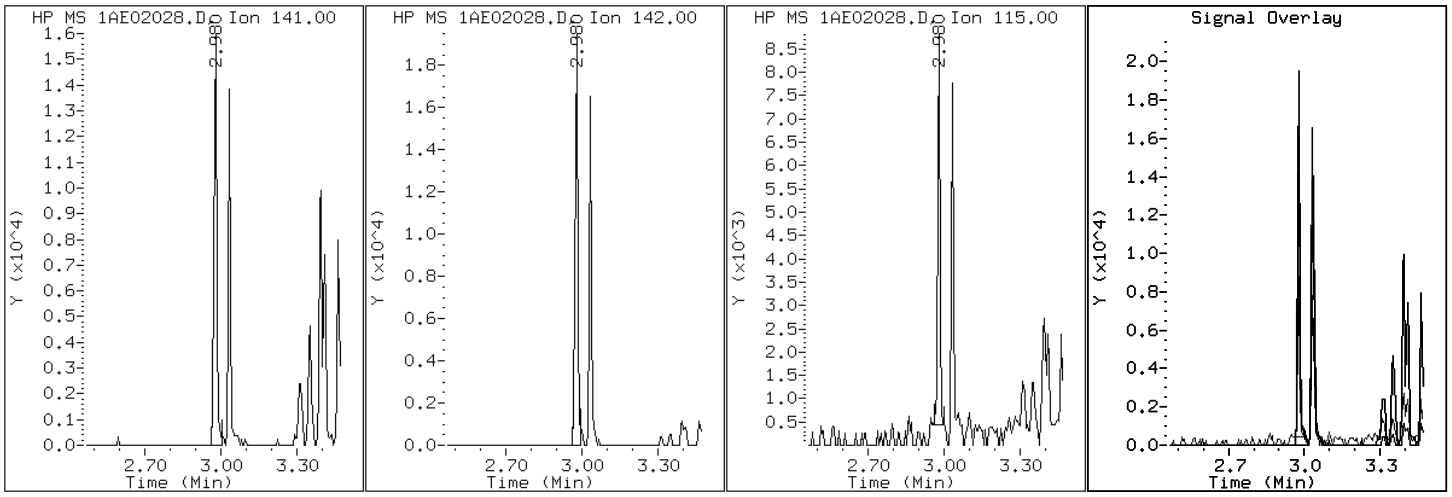
Data File: 1AE02028.D

Date: 02-MAY-2013 21:57

Client ID: CV1228A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-31-a Operator: SCC

3 2-Methylnaphthalene



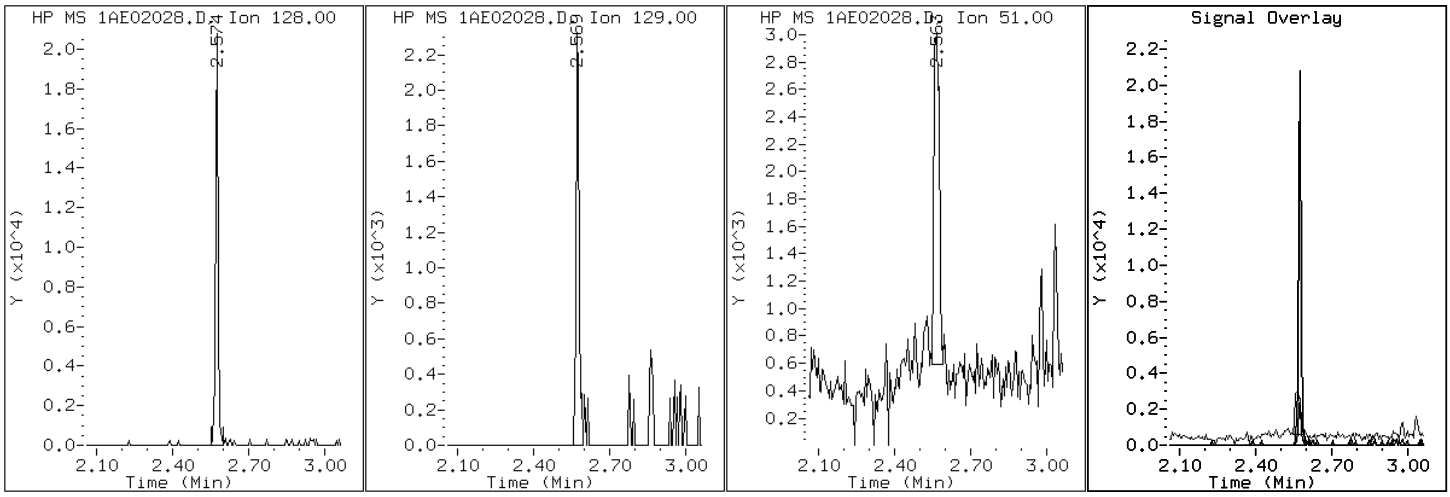
Data File: 1AE02028.D

Date: 02-MAY-2013 21:57

Client ID: CV1228A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-31-a Operator: SCC

2 Naphthalene



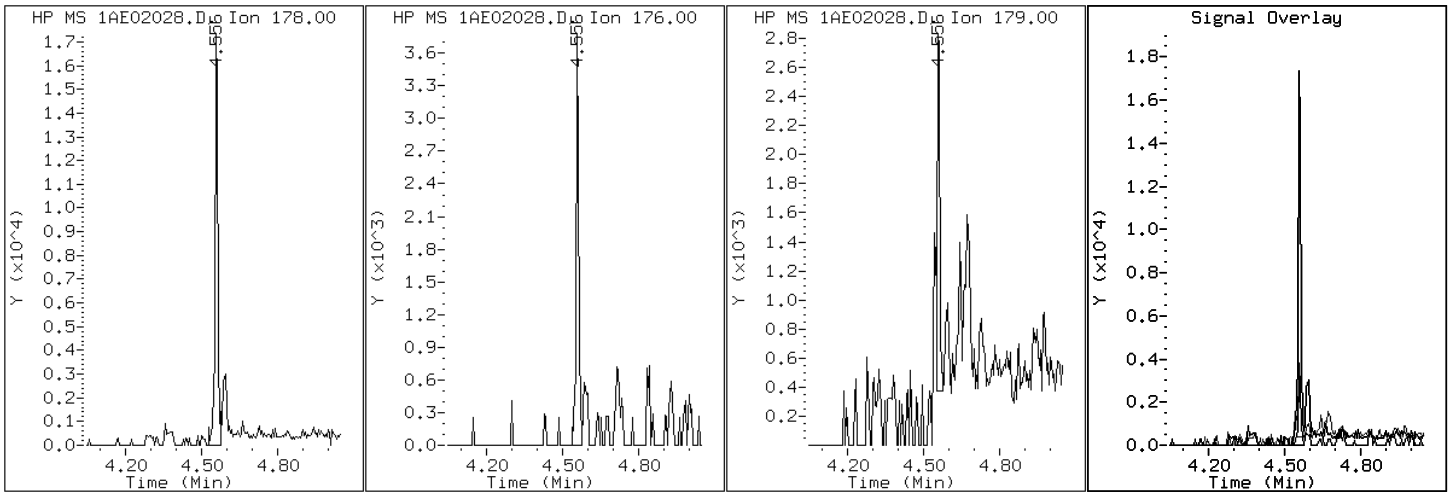
Data File: 1AE02028.D

Date: 02-MAY-2013 21:57

Client ID: CV1228A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-31-a Operator: SCC

11 Phenanthrene



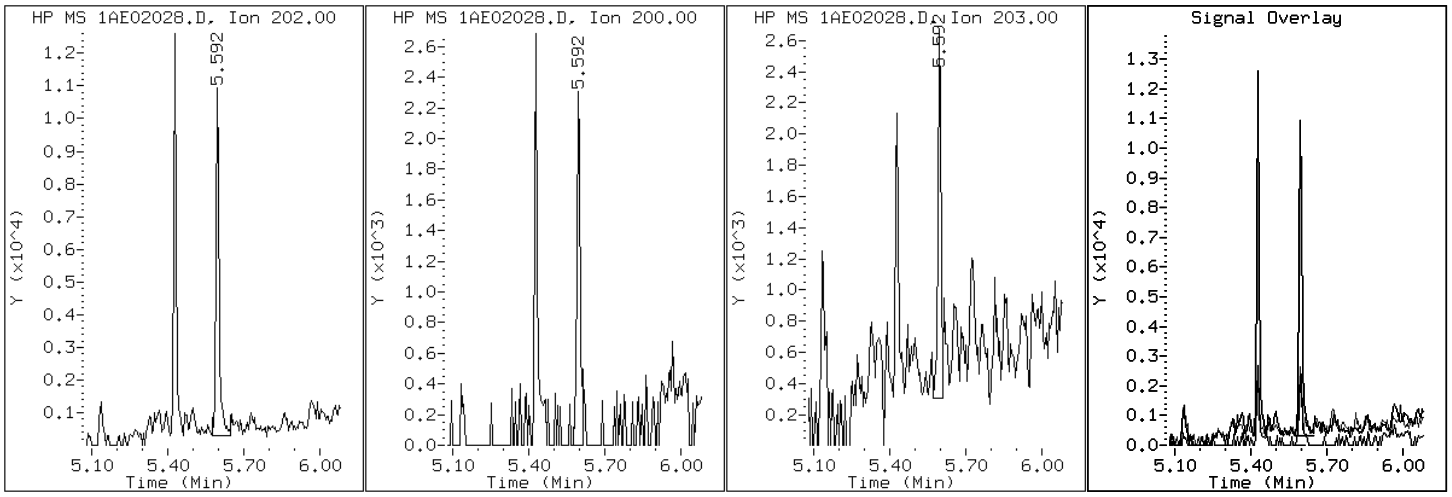
Data File: 1AE02028.D

Date: 02-MAY-2013 21:57

Client ID: CV1228A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-31-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE02028.D
Inj. Date and Time: 02-MAY-2013 21:57
Instrument ID: BSMA5973.i
Client ID: CV1228A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/03/2013

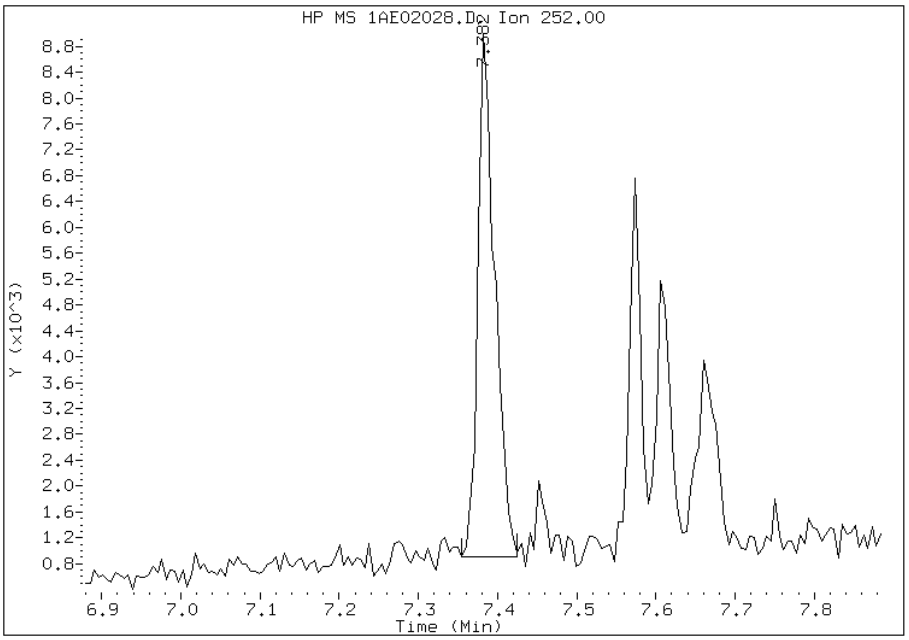
Processing Integration Results

RT: 7.38

Response: 11875

Amount: 0

Conc: 134



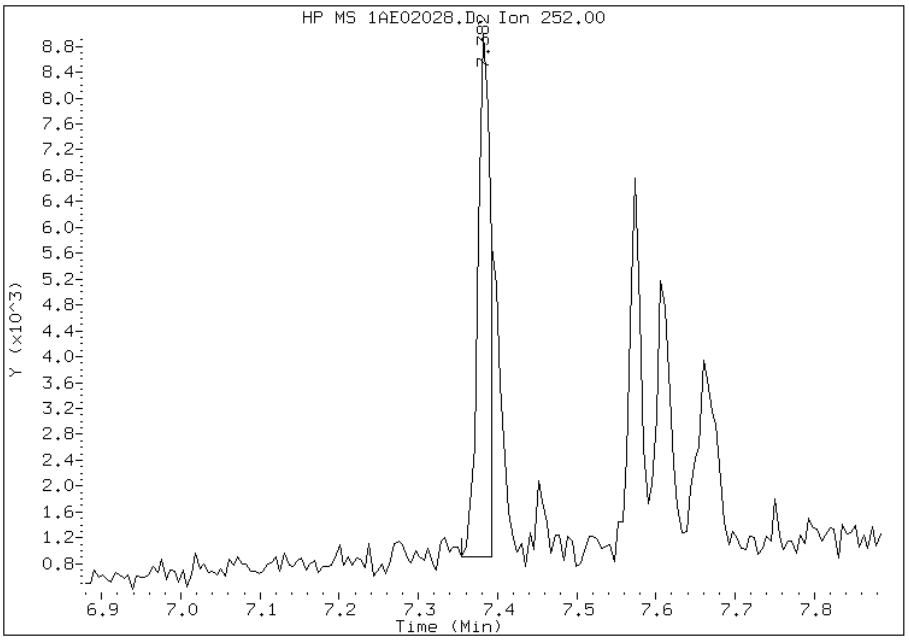
Manual Integration Results

RT: 7.38

Response: 8837

Amount: 0

Conc: 100



Manually Integrated By: cantins
Modification Date: 03-May-2013 12:01
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE02028.D
Inj. Date and Time: 02-MAY-2013 21:57
Instrument ID: BSMA5973.i
Client ID: CV1228A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/03/2013

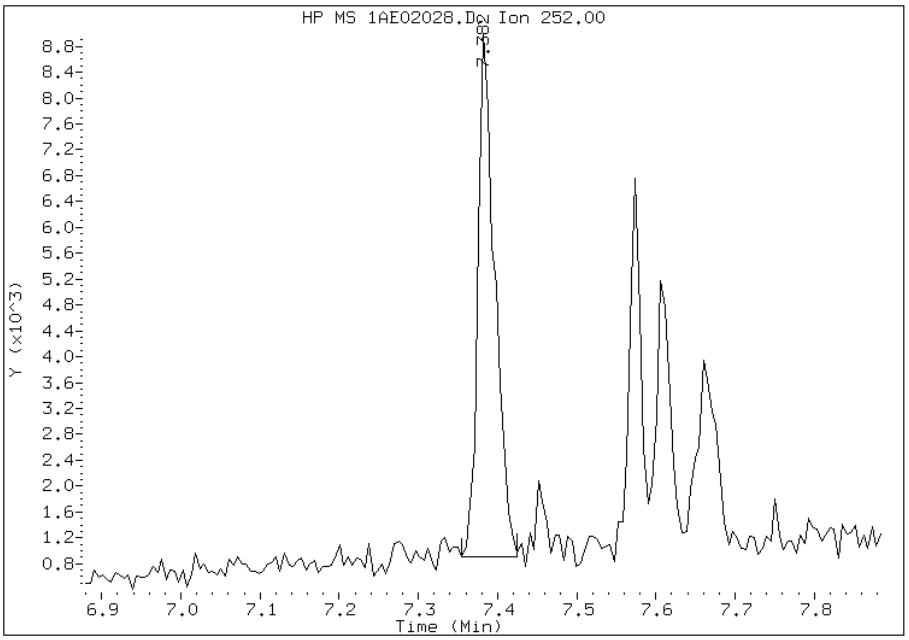
Processing Integration Results

RT: 7.38

Response: 11875

Amount: 0

Conc: 116



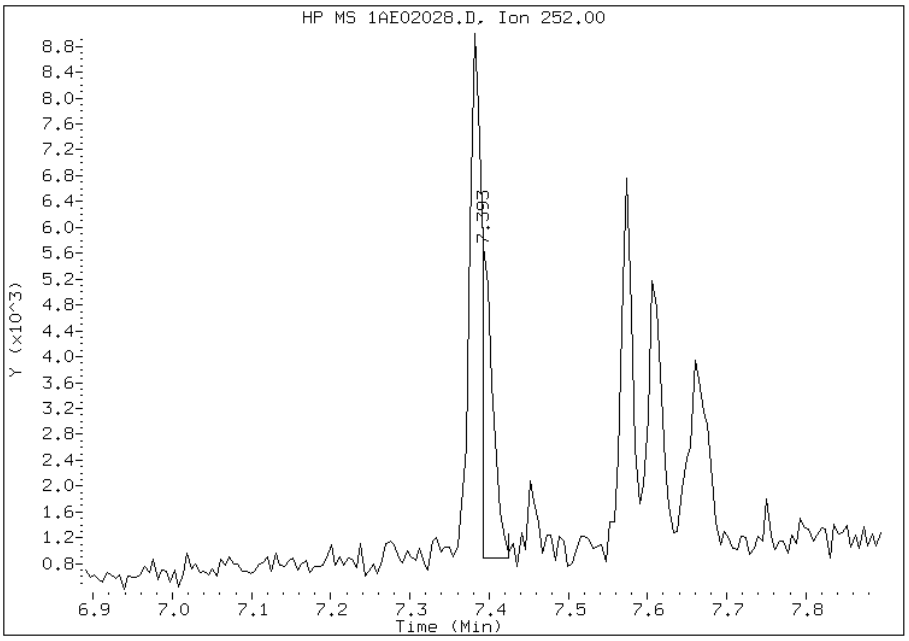
Manual Integration Results

RT: 7.39

Response: 4617

Amount: 0

Conc: 45



Manually Integrated By: cantins
Modification Date: 03-May-2013 12:01
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: CV1228B-CS | Lab Sample ID: 680-89791-32

Matrix: Solid | Lab File ID: 1AE02029.D

Analysis Method: 8270C LL | Date Collected: 04/25/2013 11:20

Extract. Method: 3546 | Date Extracted: 04/30/2013 14:42

Sample wt/vol: 14.99(g) | Date Analyzed: 05/02/2013 22:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 22.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137070 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	27	J	210	26
120-12-7	Anthracene	38	J	43	22
56-55-3	Benzo[a]anthracene	160		41	20
50-32-8	Benzo[a]pyrene	140		54	27
205-99-2	Benzo[b]fluoranthene	210		63	31
191-24-2	Benzo[g,h,i]perylene	100		100	23
207-08-9	Benzo[k]fluoranthene	79		41	19
218-01-9	Chrysene	250		46	23
53-70-3	Dibenz(a,h)anthracene	36	J	100	21
206-44-0	Fluoranthene	200		100	21
86-73-7	Fluorene	100	U	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	85	J	100	37
90-12-0	1-Methylnaphthalene	150	J	210	23
91-57-6	2-Methylnaphthalene	160	J	210	37
91-20-3	Naphthalene	130	J	210	23
85-01-8	Phenanthrene	190		41	20
129-00-0	Pyrene	170		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	49		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02029.D
Lab Smp Id: 680-89791-A-32-A Client Smp ID: CV1228B-CS
Inj Date : 02-MAY-2013 22:12
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89791-a-32-a
Misc Info : 680-89791-A-32-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\a-bFASTPAHi-m.m
Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 26
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	22.459	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.559	2.550	(1.000)	1160099	40.0000	
* 6 Acenaphthene-d10	164	3.590	3.581	(1.000)	613298	40.0000	
* 10 Phenanthrene-d10	188	4.546	4.532	(1.000)	885252	40.0000	
$ 14 o-Terphenyl	230	4.840	4.831	(1.065)	17851	1.23284	424.2600
* 18 Chrysene-d12	240	6.571	6.551	(1.000)	881442	40.0000	
* 23 Perylene-d12	264	7.666	7.641	(1.000)	937594	40.0000	
2 Naphthalene	128	2.570	2.560	(1.004)	10888	0.37545	129.2032
3 2-Methylnaphthalene	141	2.976	2.972	(1.163)	7692	0.46264	159.2084
4 1-Methylnaphthalene	142	3.034	3.025	(1.186)	8132	0.44146	151.9205
5 Acenaphthylene	152	3.499	3.490	(0.975)	2803	0.07820	26.9119(Q)
11 Phenanthrene	178	4.557	4.548	(1.002)	14523	0.56633	194.8927
12 Anthracene	178	4.589	4.580	(1.009)	2933	0.11000	37.8536(Q)
13 Carbazole	167	4.728	4.713	(1.040)	2071	0.08051	27.7068(Q)
15 Fluoranthene	202	5.428	5.413	(1.194)	17357	0.58600	201.6618

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
16 Pyrene	202	5.593	5.579	(0.851)	17044	0.50684	174.4215
17 Benzo(a)anthracene	228	6.566	6.540	(0.999)	13243	0.46006	158.3216
19 Chrysene	228	6.587	6.572	(1.002)	21136	0.72375	249.0669
20 Benzo(b)fluoranthene	252	7.383	7.363	(0.963)	17348	0.60945	209.7327(M)
21 Benzo(k)fluoranthene	252	7.394	7.384	(0.964)	7491	0.22889	78.7687(QM)
22 Benzo(a)pyrene	252	7.613	7.593	(0.993)	11543	0.40763	140.2789
24 Indeno(1,2,3-cd)pyrene	276	8.425	8.405	(1.099)	6637	0.24823	85.4236(M)
25 Dibenzo(a,h)anthracene	278	8.446	8.431	(1.102)	2619	0.10527	36.2283
26 Benzo(g,h,i)perylene	276	8.649	8.624	(1.128)	9098	0.30403	104.6280

QC Flag Legend

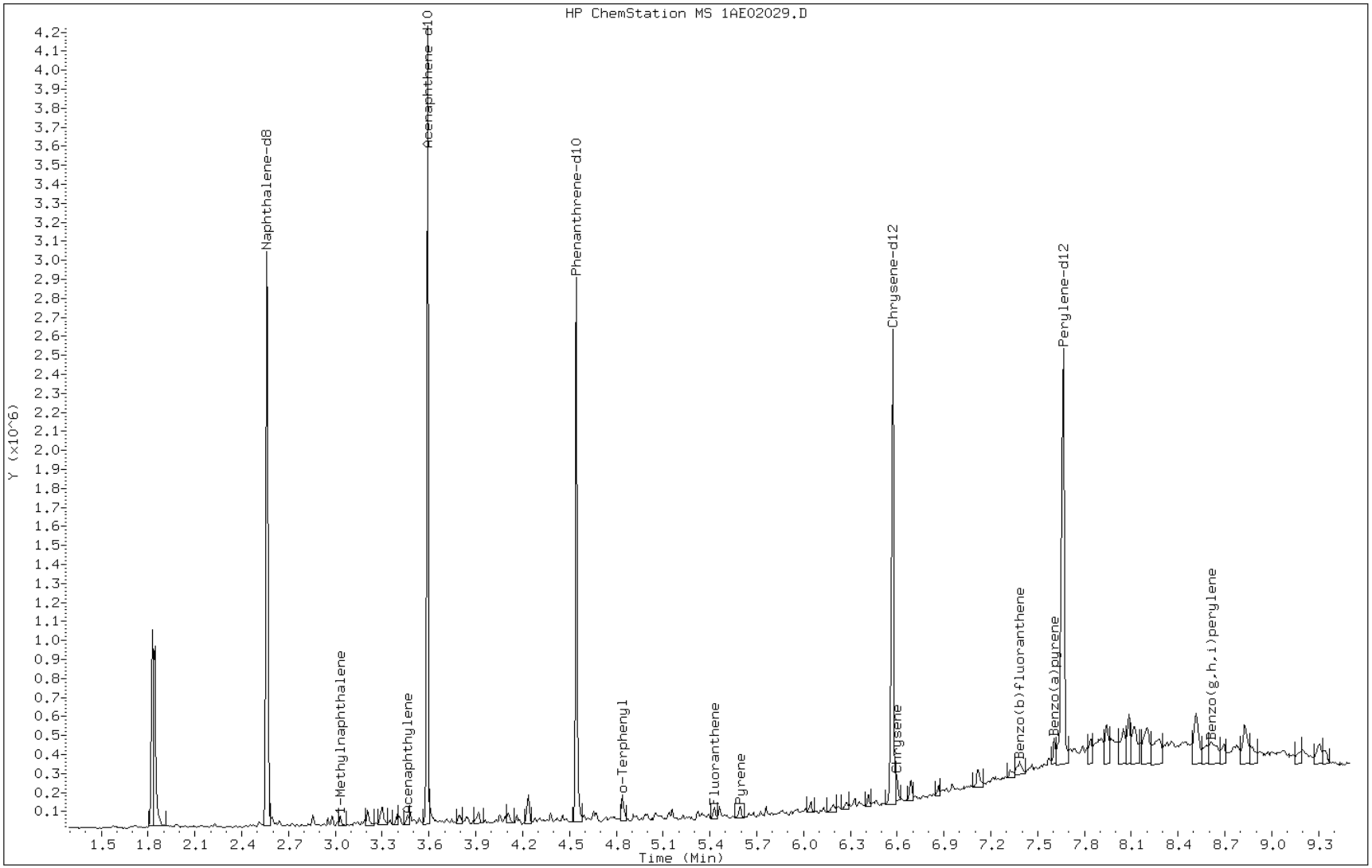
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE02029.D

Date: 02-MAY-2013 22:12

Client ID: CV1228B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-32-a Operator: SCC



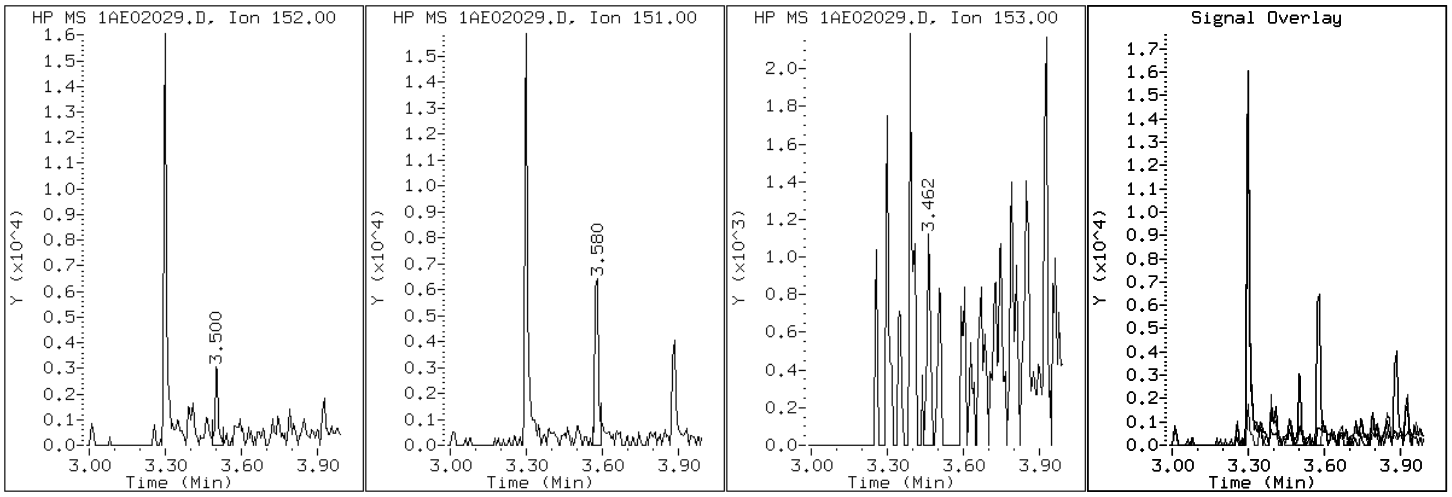
Data File: 1AE02029.D

Date: 02-MAY-2013 22:12

Client ID: CV1228B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-32-a Operator: SCC

5 Acenaphthylene



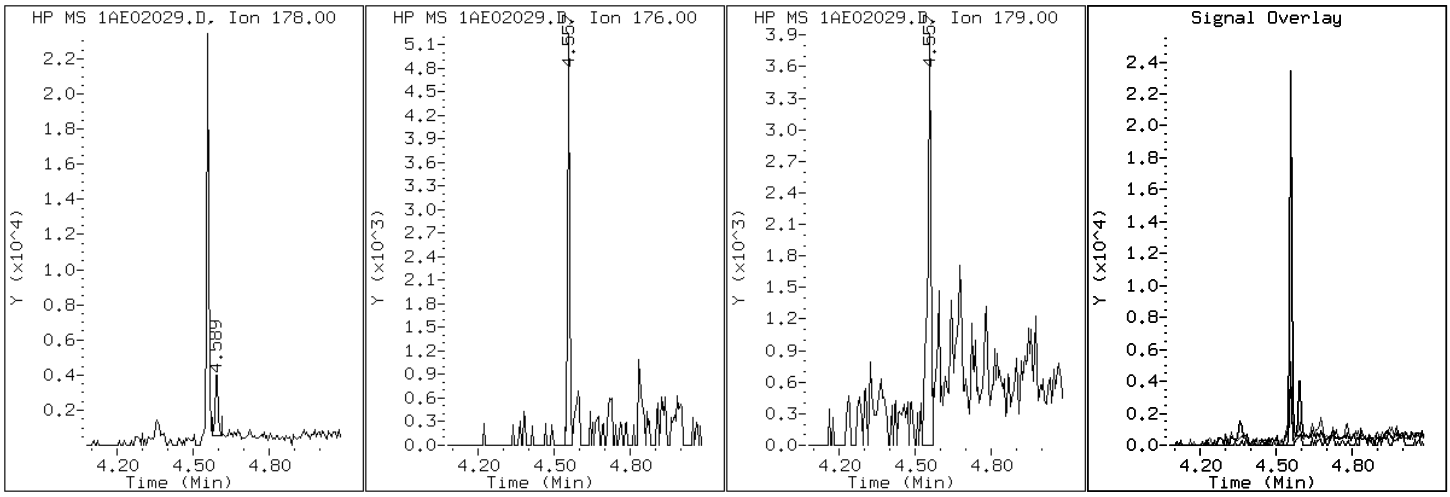
Data File: 1AE02029.D

Date: 02-MAY-2013 22:12

Client ID: CV1228B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-32-a Operator: SCC

12 Anthracene



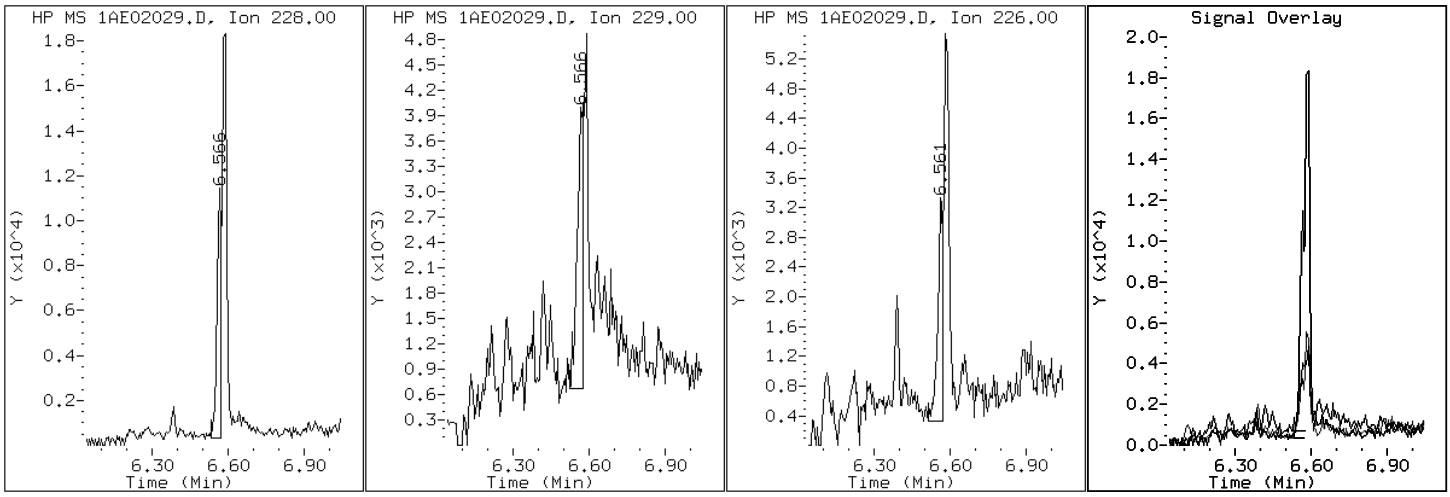
Data File: 1AE02029.D

Date: 02-MAY-2013 22:12

Client ID: CV1228B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-32-a Operator: SCC

17 Benzo(a)anthracene



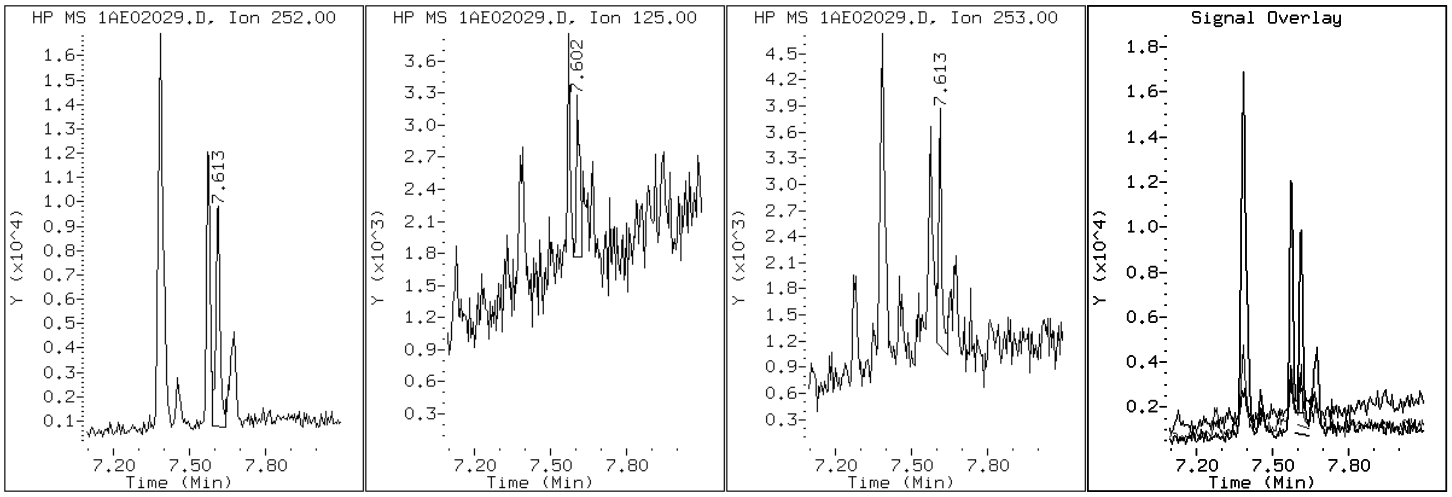
Data File: 1AE02029.D

Date: 02-MAY-2013 22:12

Client ID: CV1228B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-32-a Operator: SCC

22 Benzo(a)pyrene



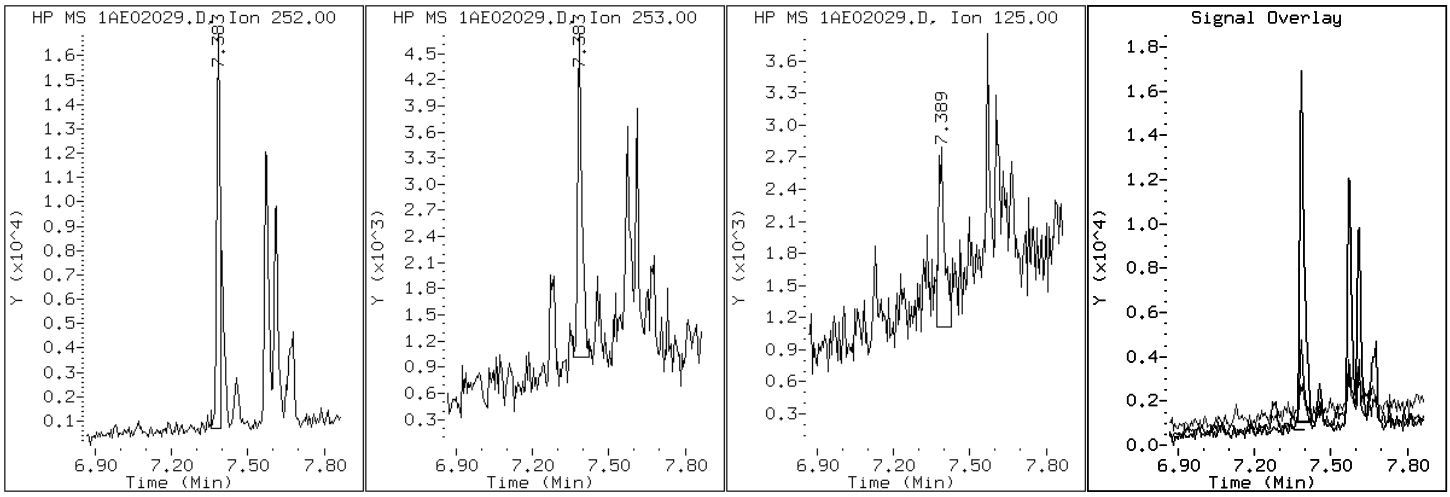
Data File: 1AE02029.D

Date: 02-MAY-2013 22:12

Client ID: CV1228B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-32-a Operator: SCC

20 Benzo(b)fluoranthene



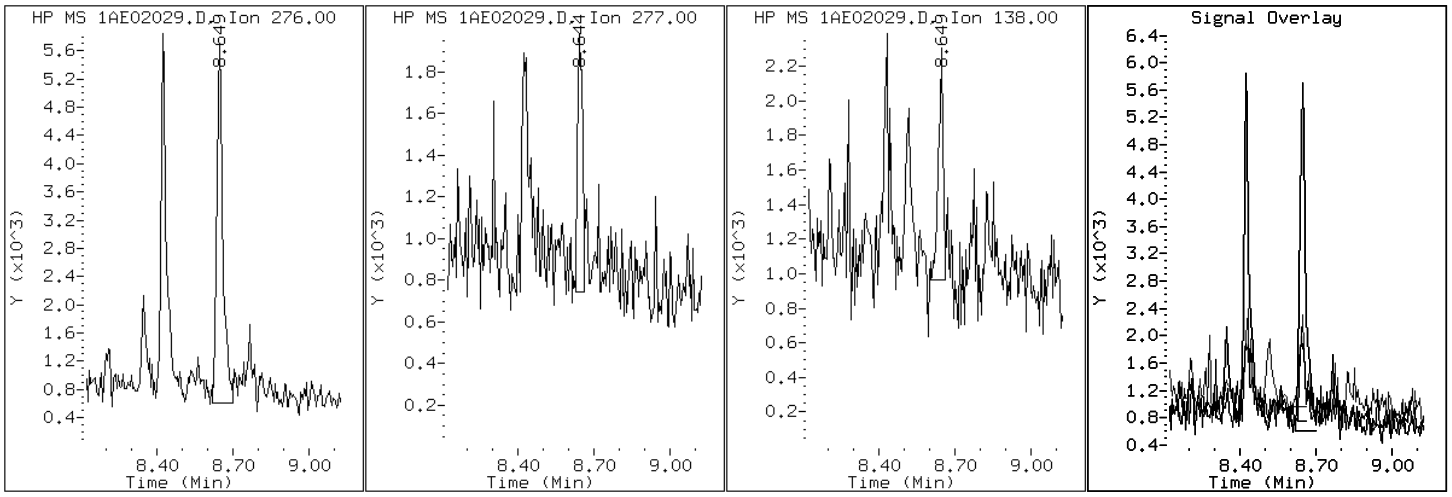
Data File: 1AE02029.D

Date: 02-MAY-2013 22:12

Client ID: CV1228B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-32-a Operator: SCC

26 Benzo(g,h,i)perylene



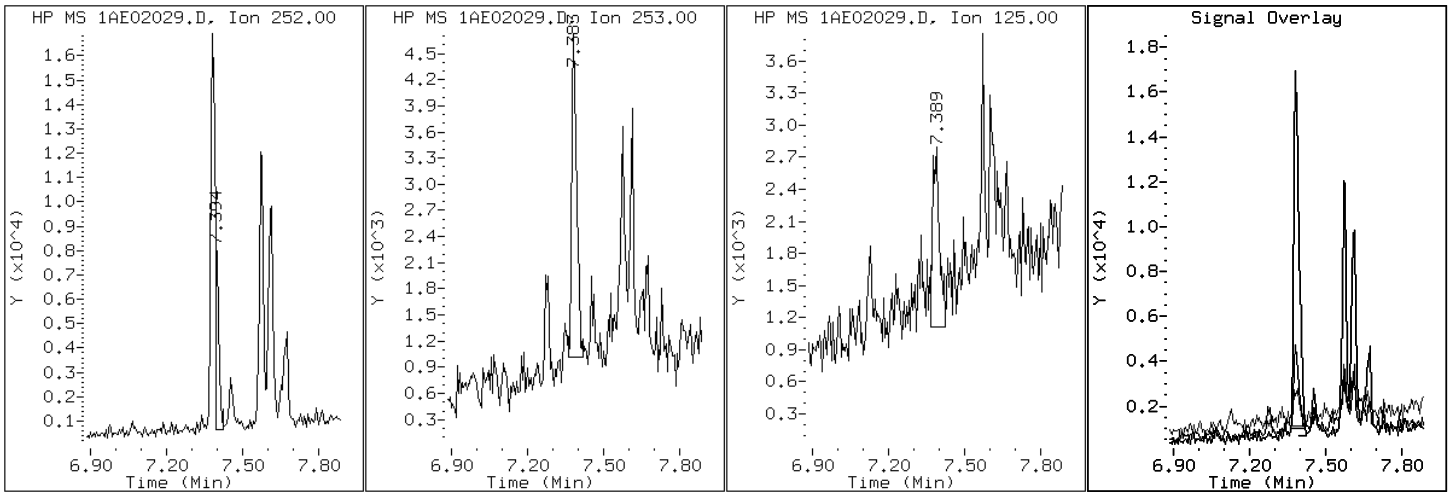
Data File: 1AE02029.D

Date: 02-MAY-2013 22:12

Client ID: CV1228B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-32-a Operator: SCC

21 Benzo(k)fluoranthene



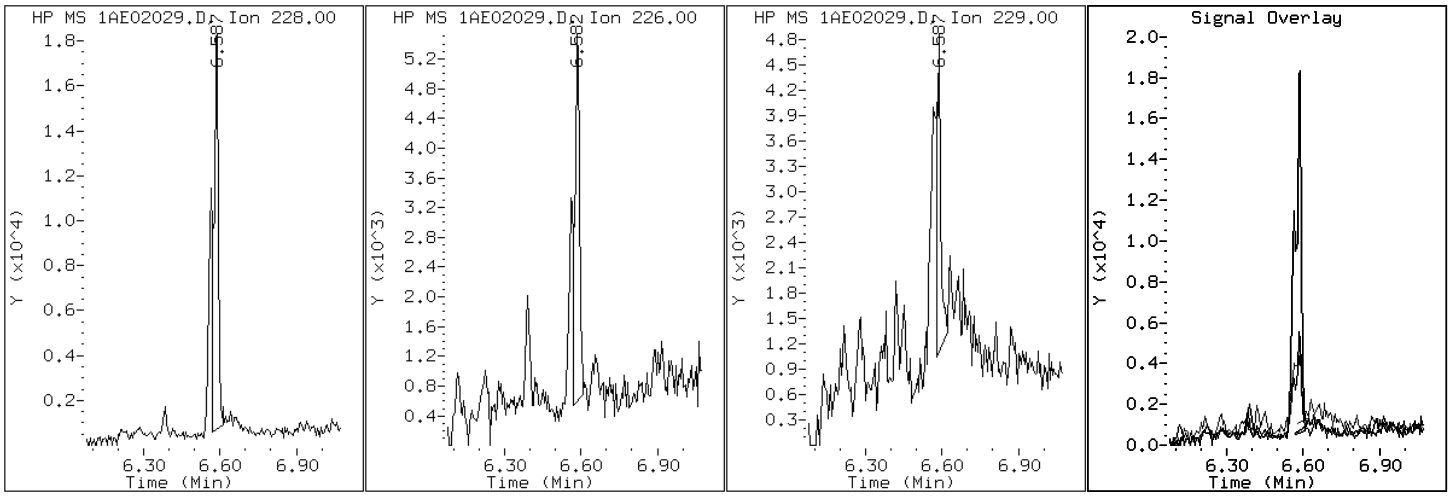
Data File: 1AE02029.D

Date: 02-MAY-2013 22:12

Client ID: CV1228B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-32-a Operator: SCC

19 Chrysene



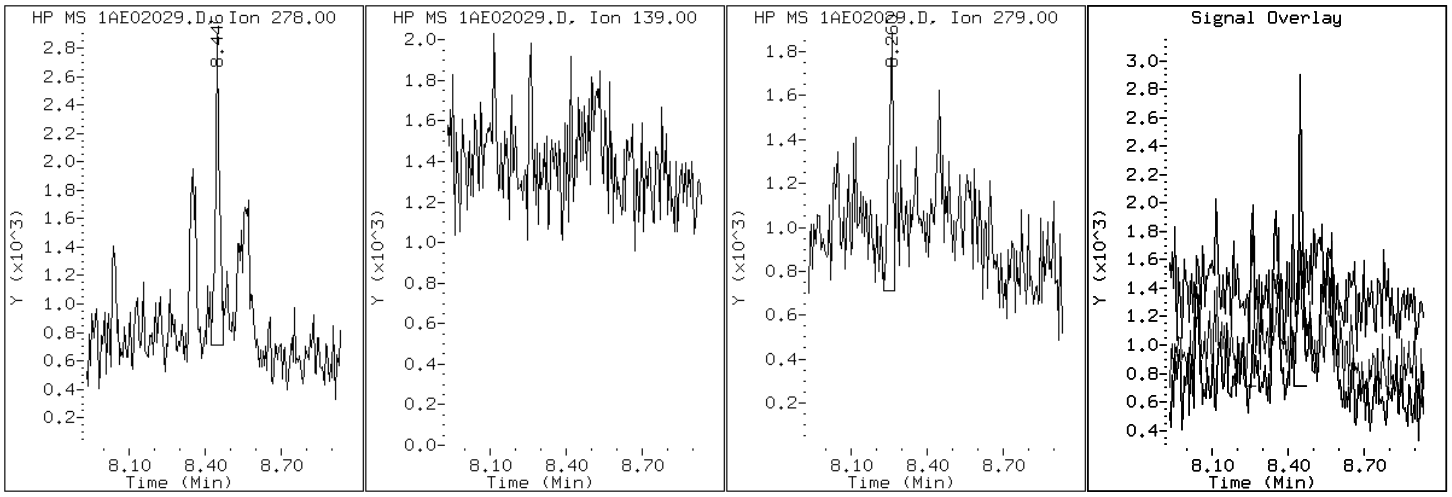
Data File: 1AE02029.D

Date: 02-MAY-2013 22:12

Client ID: CV1228B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-32-a Operator: SCC

25 Dibenzo(a,h)anthracene



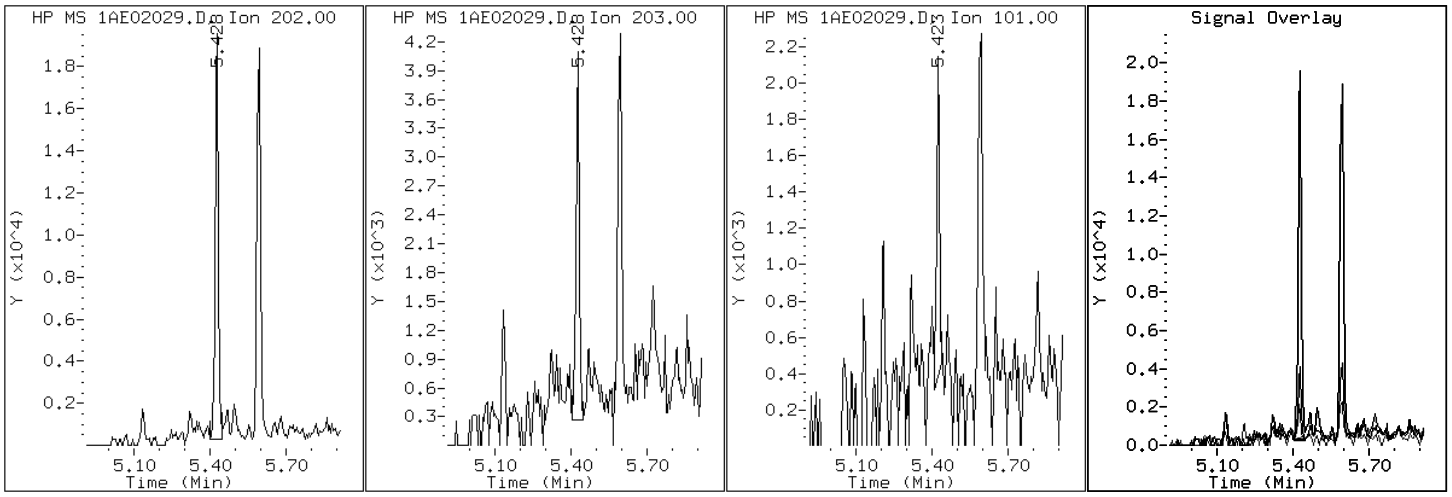
Data File: 1AE02029.D

Date: 02-MAY-2013 22:12

Client ID: CV1228B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-32-a Operator: SCC

15 Fluoranthene



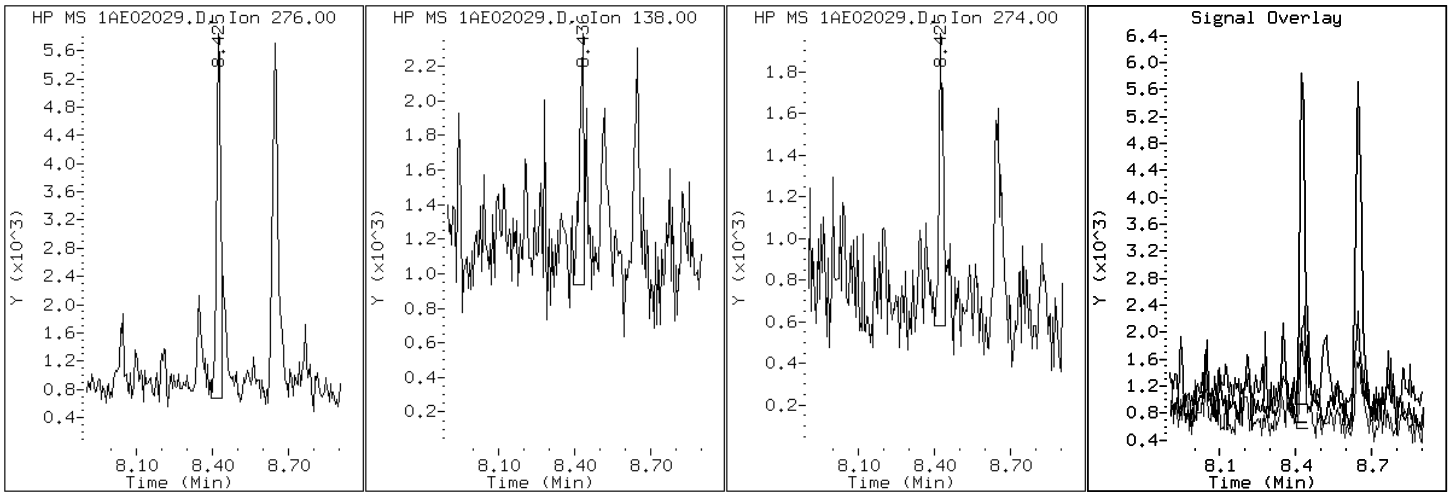
Data File: 1AE02029.D

Date: 02-MAY-2013 22:12

Client ID: CV1228B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-32-a Operator: SCC

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



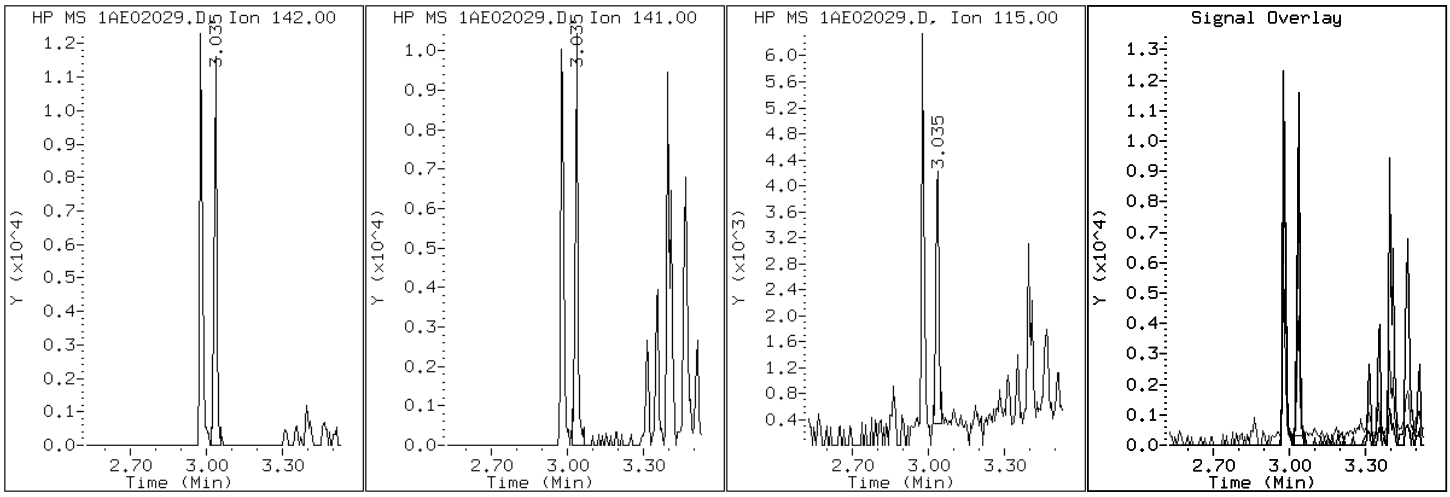
Data File: 1AE02029.D

Date: 02-MAY-2013 22:12

Client ID: CV1228B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-32-a Operator: SCC

4 1-Methylnaphthalene



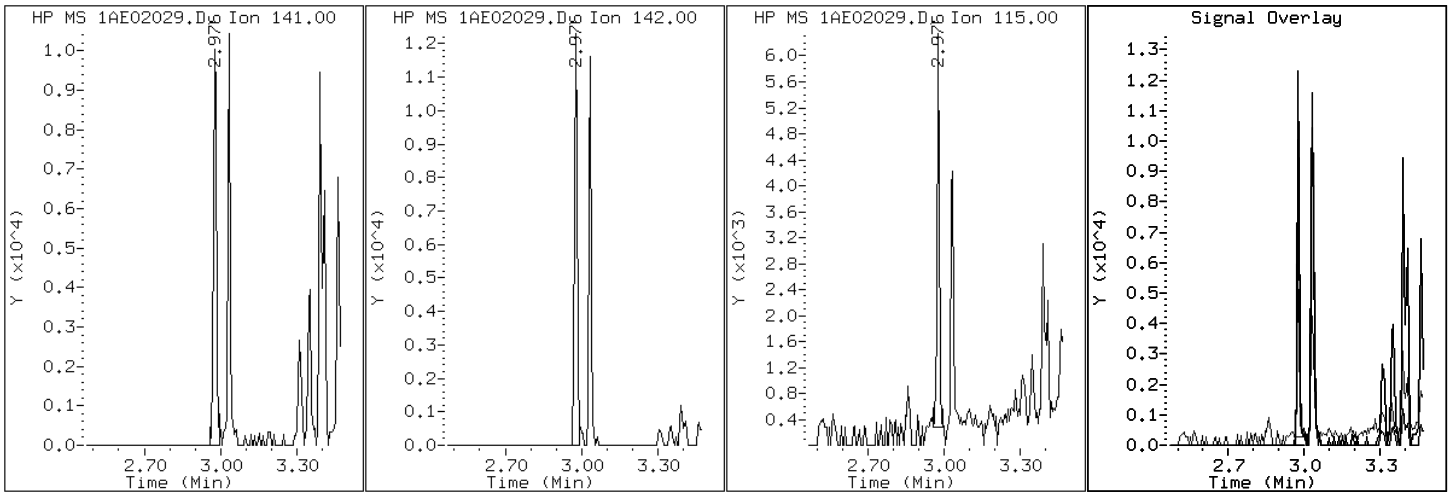
Data File: 1AE02029.D

Date: 02-MAY-2013 22:12

Client ID: CV1228B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-32-a Operator: SCC

3 2-Methylnaphthalene



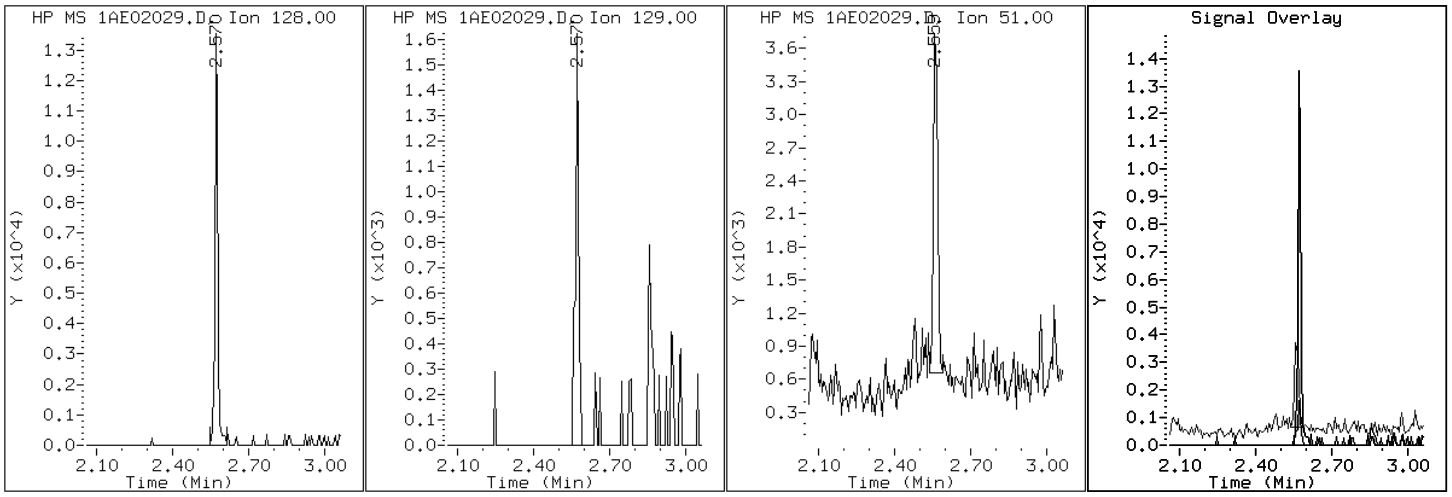
Data File: 1AE02029.D

Date: 02-MAY-2013 22:12

Client ID: CV1228B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-32-a Operator: SCC

2 Naphthalene



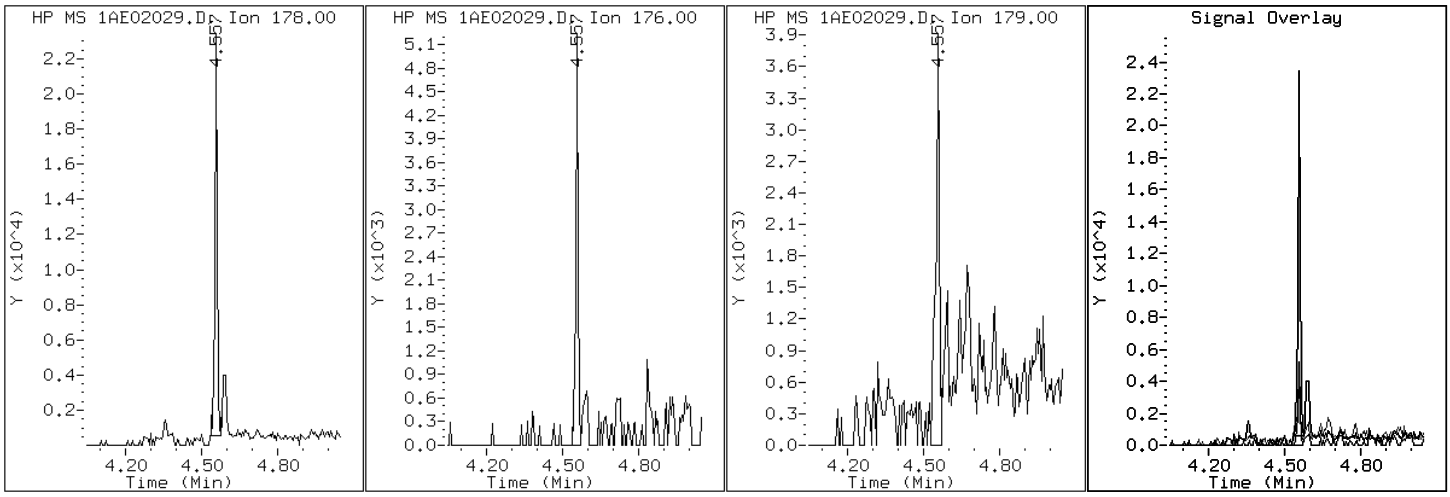
Data File: 1AE02029.D

Date: 02-MAY-2013 22:12

Client ID: CV1228B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-32-a Operator: SCC

11 Phenanthrene



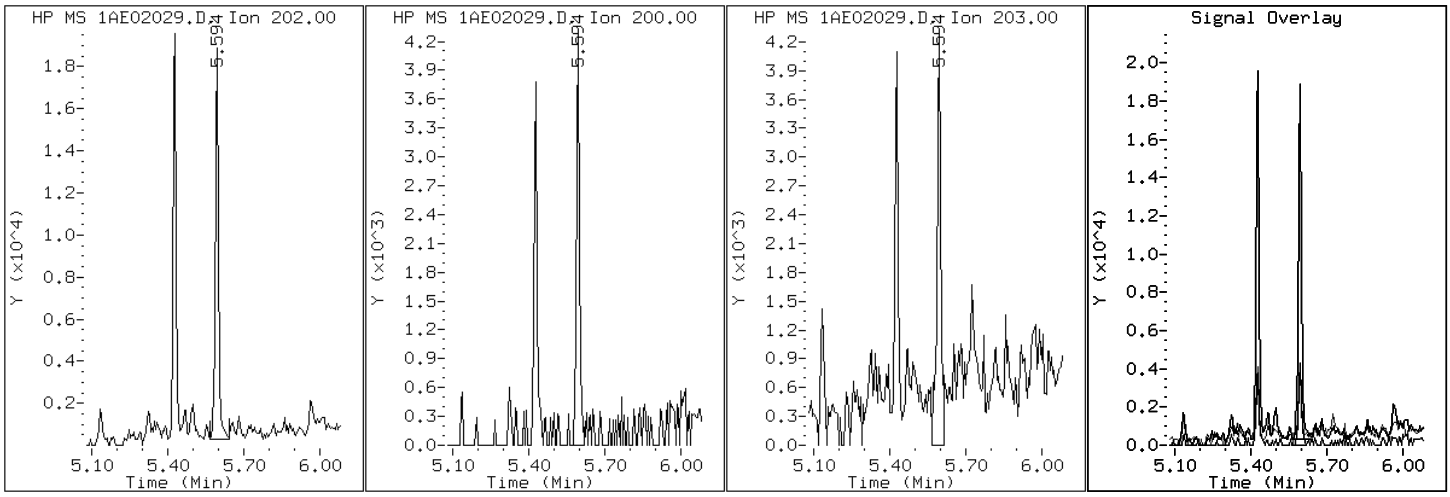
Data File: 1AE02029.D

Date: 02-MAY-2013 22:12

Client ID: CV1228B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-32-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE02029.D
Inj. Date and Time: 02-MAY-2013 22:12
Instrument ID: BSMA5973.i
Client ID: CV1228B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/03/2013

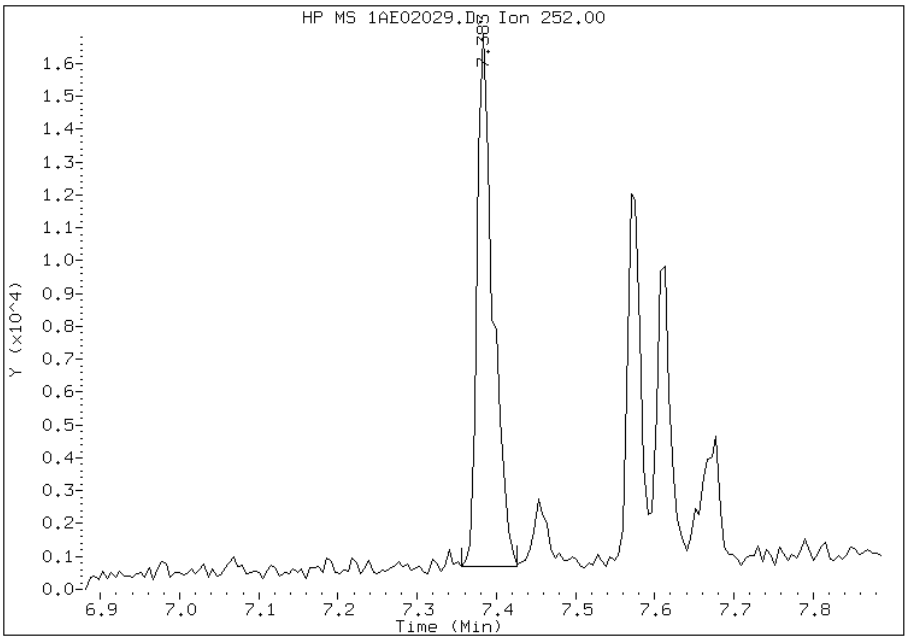
Processing Integration Results

RT: 7.38

Response: 22395

Amount: 1

Conc: 271



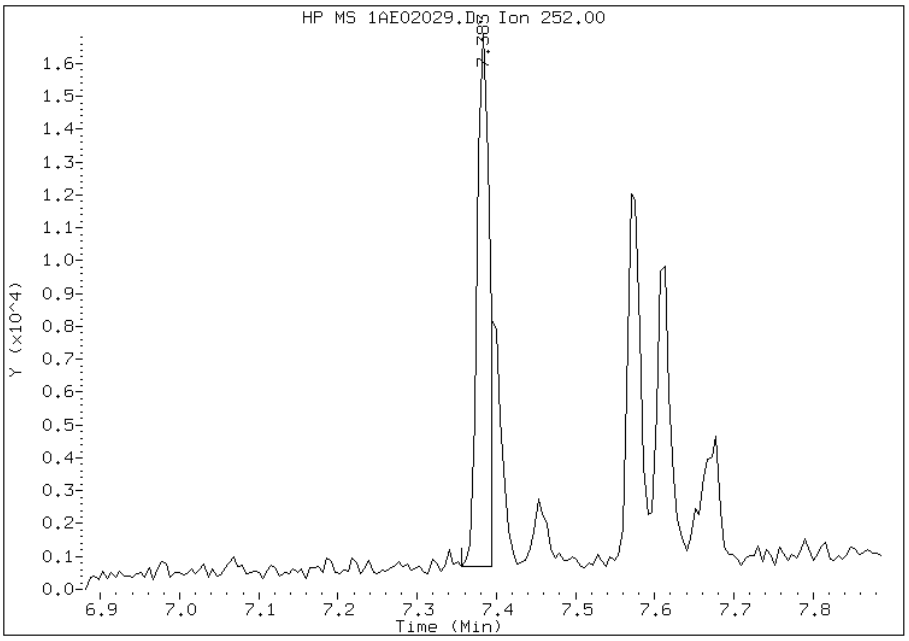
Manual Integration Results

RT: 7.38

Response: 17348

Amount: 1

Conc: 210



Manually Integrated By: cantins
Modification Date: 03-May-2013 12:02
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE02029.D
Inj. Date and Time: 02-MAY-2013 22:12
Instrument ID: BSMA5973.i
Client ID: CV1228B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/03/2013

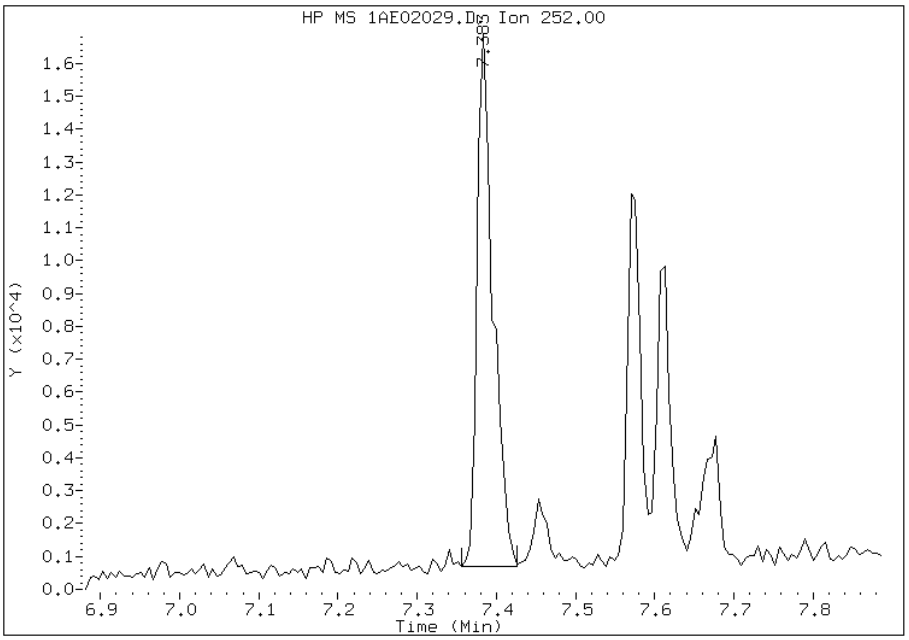
Processing Integration Results

RT: 7.38

Response: 22395

Amount: 1

Conc: 235



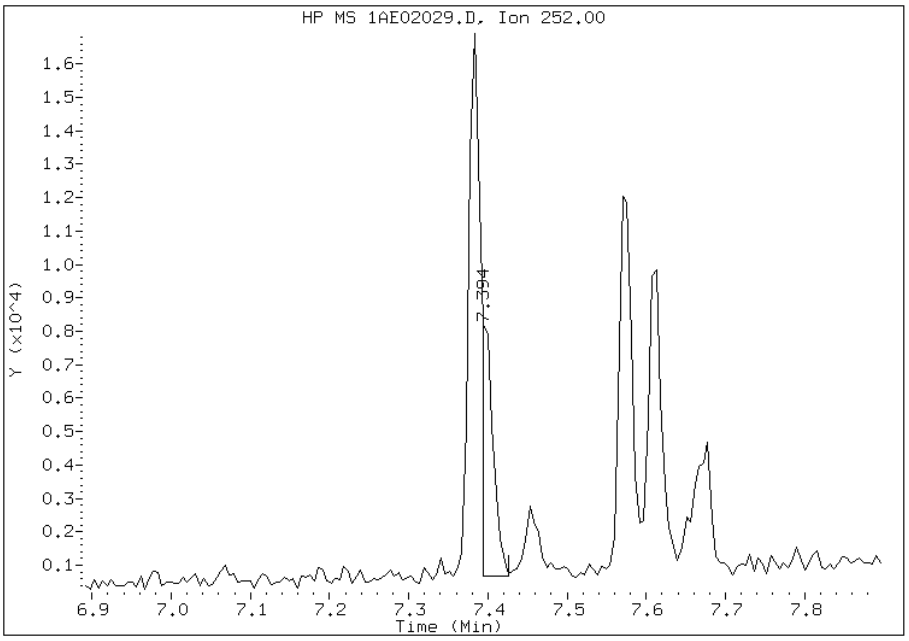
Manual Integration Results

RT: 7.39

Response: 7491

Amount: 0

Conc: 79



Manually Integrated By: cantins
Modification Date: 03-May-2013 12:02
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE02029.D
Inj. Date and Time: 02-MAY-2013 22:12
Instrument ID: BSMA5973.i
Client ID: CV1228B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/03/2013

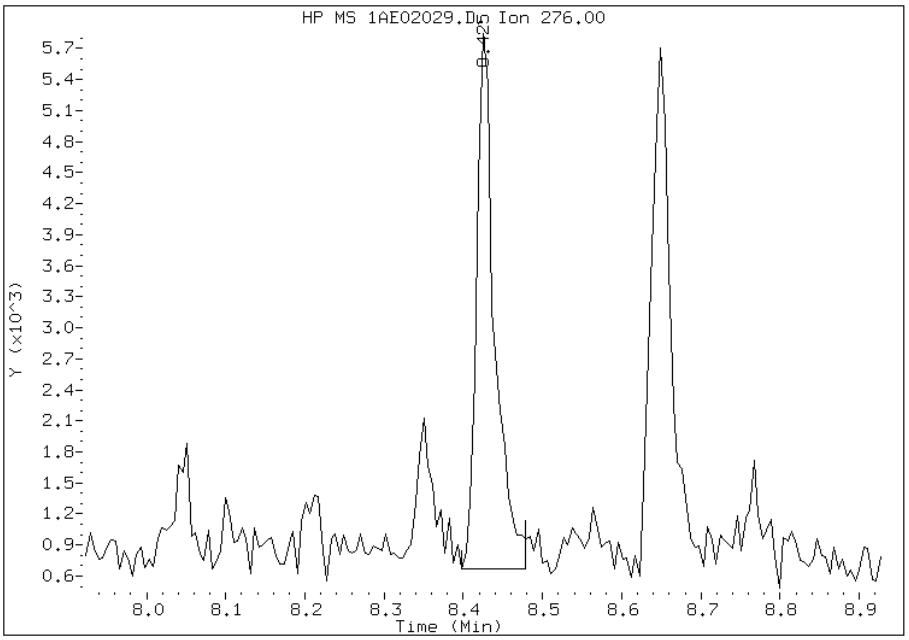
Processing Integration Results

RT: 8.43

Response: 8175

Amount: 0

Conc: 105



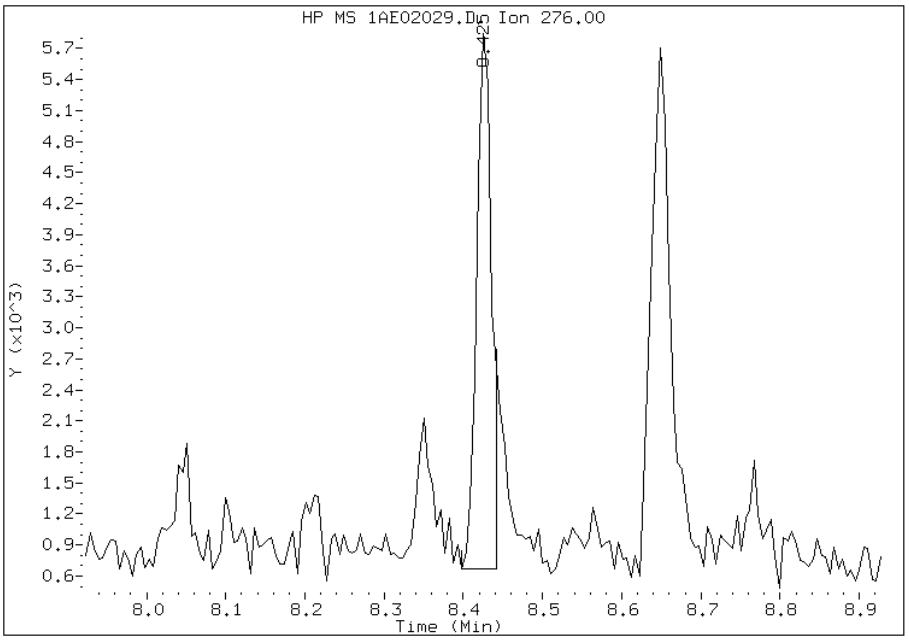
Manual Integration Results

RT: 8.43

Response: 6637

Amount: 0

Conc: 85



Manually Integrated By: cantins
Modification Date: 03-May-2013 12:03
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: CV1144A-CS | Lab Sample ID: 680-89791-33

Matrix: Solid | Lab File ID: 1AE02030.D

Analysis Method: 8270C LL | Date Collected: 04/25/2013 14:00

Extract. Method: 3546 | Date Extracted: 04/30/2013 14:42

Sample wt/vol: 14.98(g) | Date Analyzed: 05/02/2013 22:27

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137070 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	49	U	49	6.1
120-12-7	Anthracene	9.0	J	10	5.1
56-55-3	Benzo[a]anthracene	38		9.8	4.8
50-32-8	Benzo[a]pyrene	31		13	6.4
205-99-2	Benzo[b]fluoranthene	51		15	7.5
191-24-2	Benzo[g,h,i]perylene	27		24	5.4
207-08-9	Benzo[k]fluoranthene	21		9.8	4.4
218-01-9	Chrysene	38		11	5.5
53-70-3	Dibenz(a,h)anthracene	5.5	J	24	5.0
206-44-0	Fluoranthene	42		24	4.9
86-73-7	Fluorene	24	U	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	23	J	24	8.7
90-12-0	1-Methylnaphthalene	10	J	49	5.4
91-57-6	2-Methylnaphthalene	13	J	49	8.7
91-20-3	Naphthalene	11	J	49	5.4
85-01-8	Phenanthrene	32		9.8	4.8
129-00-0	Pyrene	40		24	4.5

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02030.D
Lab Smp Id: 680-89791-A-33-A Client Smp ID: CV1144A-CS
Inj Date : 02-MAY-2013 22:27
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89791-a-33-a
Misc Info : 680-89791-A-33-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\a-bFASTPAHi-m.m
Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 27
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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	18.029	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.558	2.550	(1.000)	1232933	40.0000	
* 6 Acenaphthene-d10	164	3.589	3.581	(1.000)	683263	40.0000	
* 10 Phenanthrene-d10	188	4.546	4.532	(1.000)	1039869	40.0000	
$ 14 o-Terphenyl	230	4.839	4.831	(1.065)	85881	5.04929	411.2039
* 18 Chrysene-d12	240	6.570	6.551	(1.000)	815090	40.0000	
* 23 Perylene-d12	264	7.660	7.641	(1.000)	858365	40.0000	
2 Naphthalene	128	2.569	2.560	(1.004)	4090	0.13270	10.8070(Q)
3 2-Methylnaphthalene	141	2.975	2.972	(1.163)	2771	0.15682	12.7708
4 1-Methylnaphthalene	142	3.034	3.025	(1.186)	2443	0.12479	10.1625
11 Phenanthrene	178	4.556	4.548	(1.002)	11859	0.39369	32.0610
12 Anthracene	178	4.594	4.580	(1.011)	3448	0.11008	8.9650(Q)
13 Carbazole	167	4.727	4.713	(1.040)	2919	0.09661	7.8674(Q)
15 Fluoranthene	202	5.427	5.413	(1.194)	17948	0.51586	42.0102
16 Pyrene	202	5.593	5.579	(0.851)	15177	0.48807	39.7470

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
17 Benzo(a)anthracene	228	6.565	6.540	(0.999)	12423	0.46671	38.0076
19 Chrysene	228	6.586	6.572	(1.002)	12693	0.47002	38.2778
20 Benzo(b)fluoranthene	252	7.382	7.363	(0.964)	16370	0.62818	51.1576(M)
21 Benzo(k)fluoranthene	252	7.398	7.384	(0.966)	7866	0.26253	21.3802(QM)
22 Benzo(a)pyrene	252	7.607	7.593	(0.993)	9897	0.38176	31.0901
24 Indeno(1,2,3-cd)pyrene	276	8.424	8.405	(1.100)	6926	0.28295	23.0427(M)
25 Dibenzo(a,h)anthracene	278	8.440	8.431	(1.102)	1544	0.06779	5.5208(M)
26 Benzo(g,h,i)perylene	276	8.643	8.624	(1.128)	8983	0.32790	26.7035

QC Flag Legend

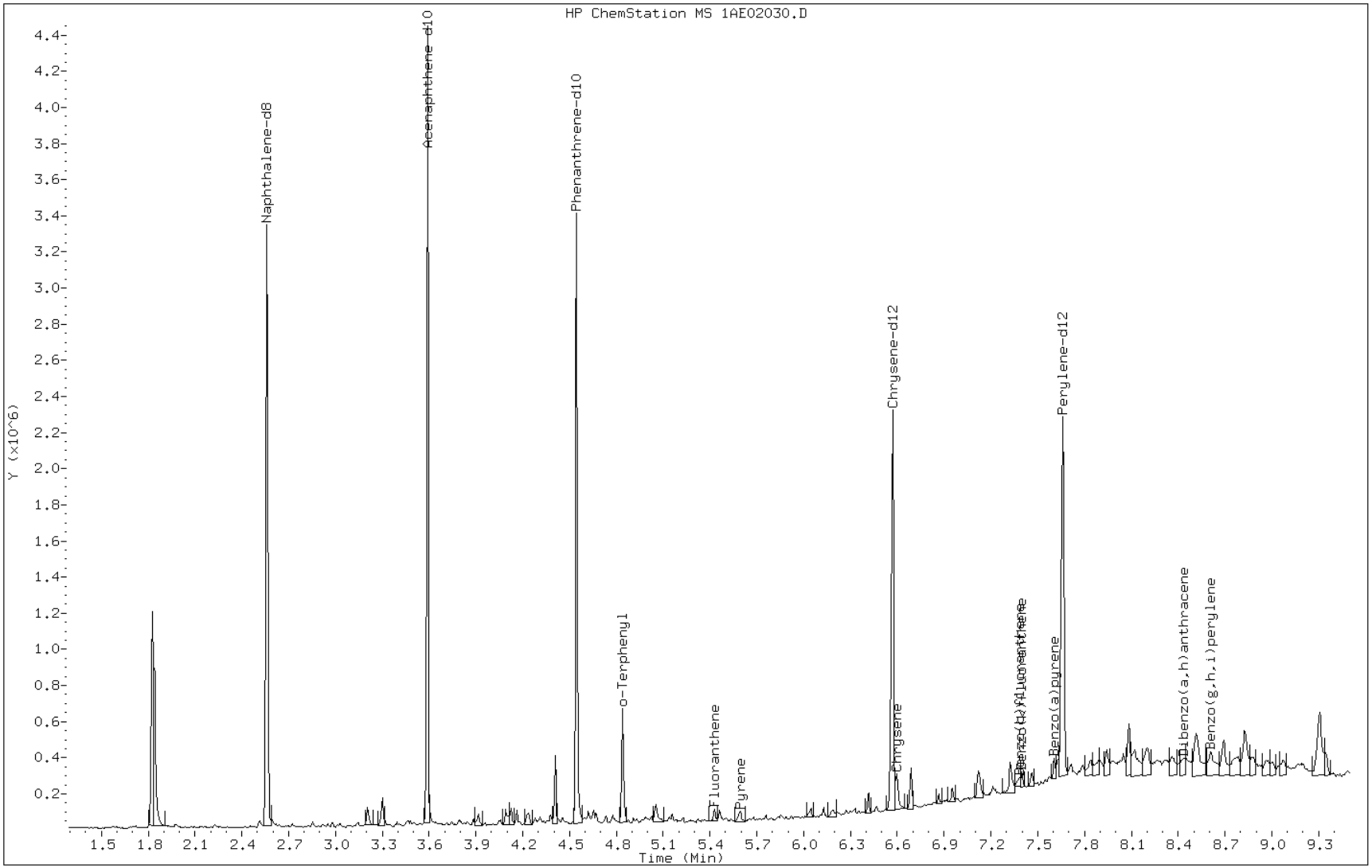
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE02030.D

Date: 02-MAY-2013 22:27

Client ID: CV1144A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-33-a Operator: SCC



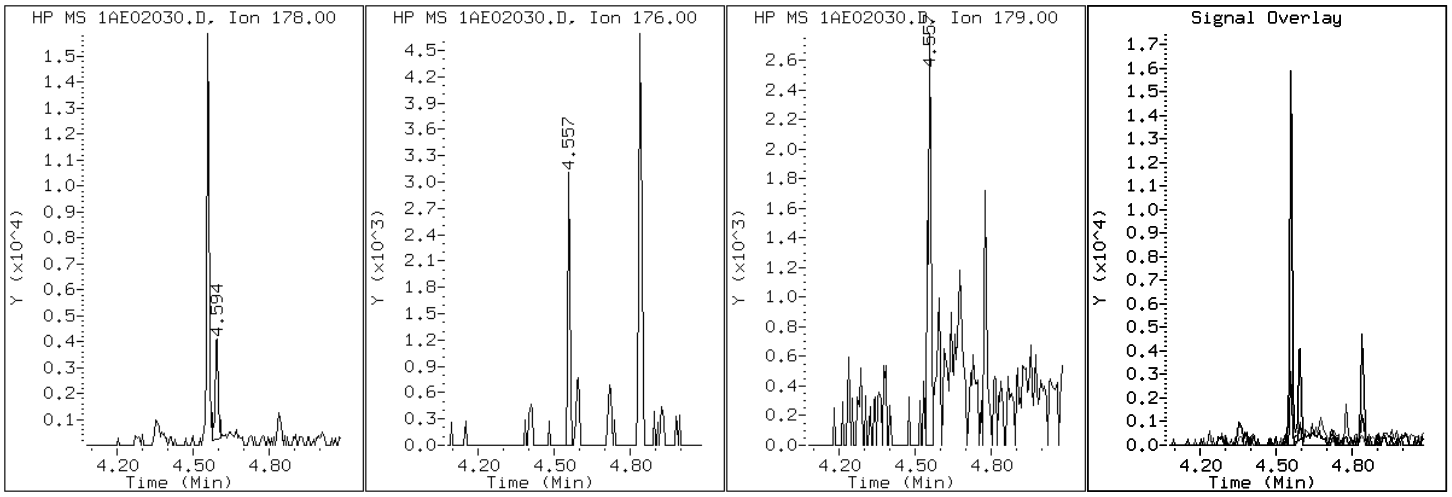
Data File: 1AE02030.D

Date: 02-MAY-2013 22:27

Client ID: CV1144A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-33-a Operator: SCC

12 Anthracene



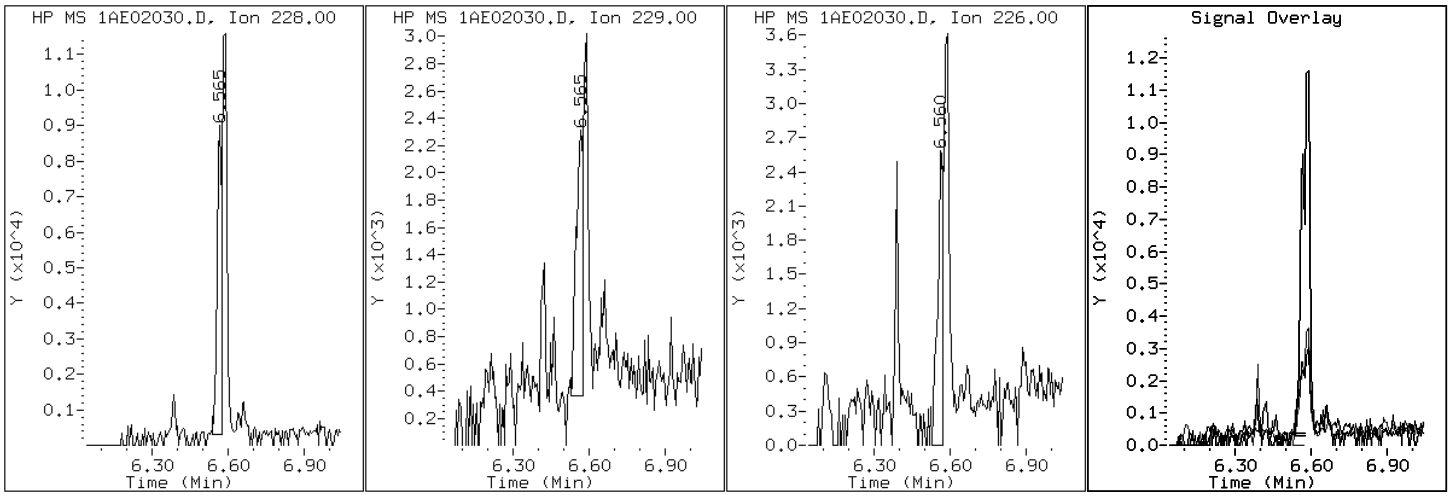
Data File: 1AE02030.D

Date: 02-MAY-2013 22:27

Client ID: CV1144A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-33-a Operator: SCC

17 Benzo(a)anthracene



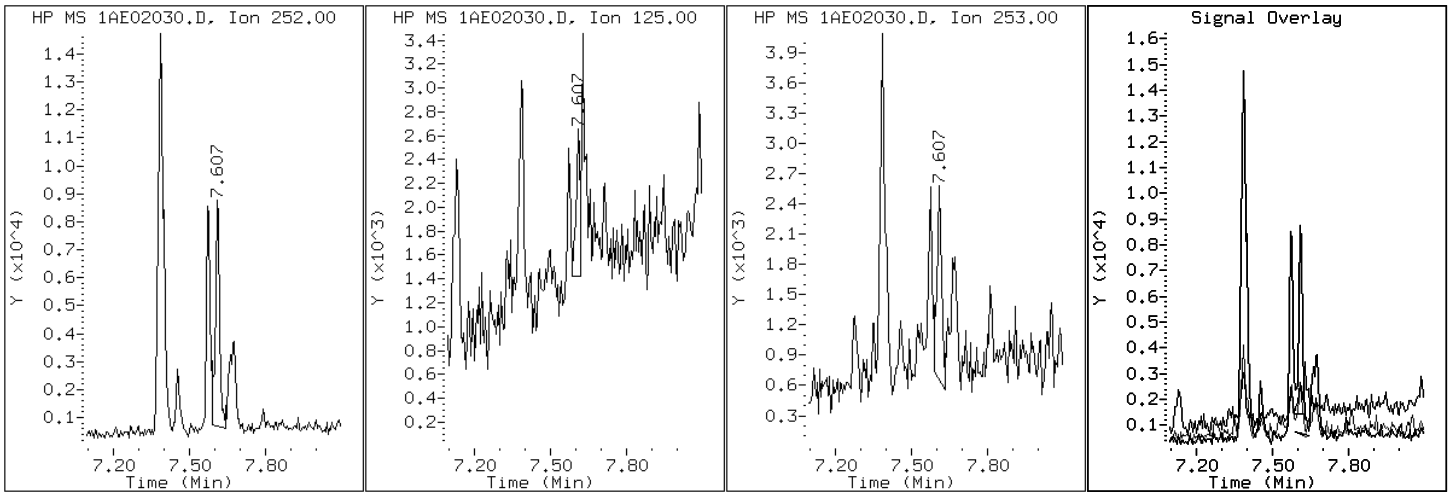
Data File: 1AE02030.D

Date: 02-MAY-2013 22:27

Client ID: CV1144A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-33-a Operator: SCC

22 Benzo(a)pyrene



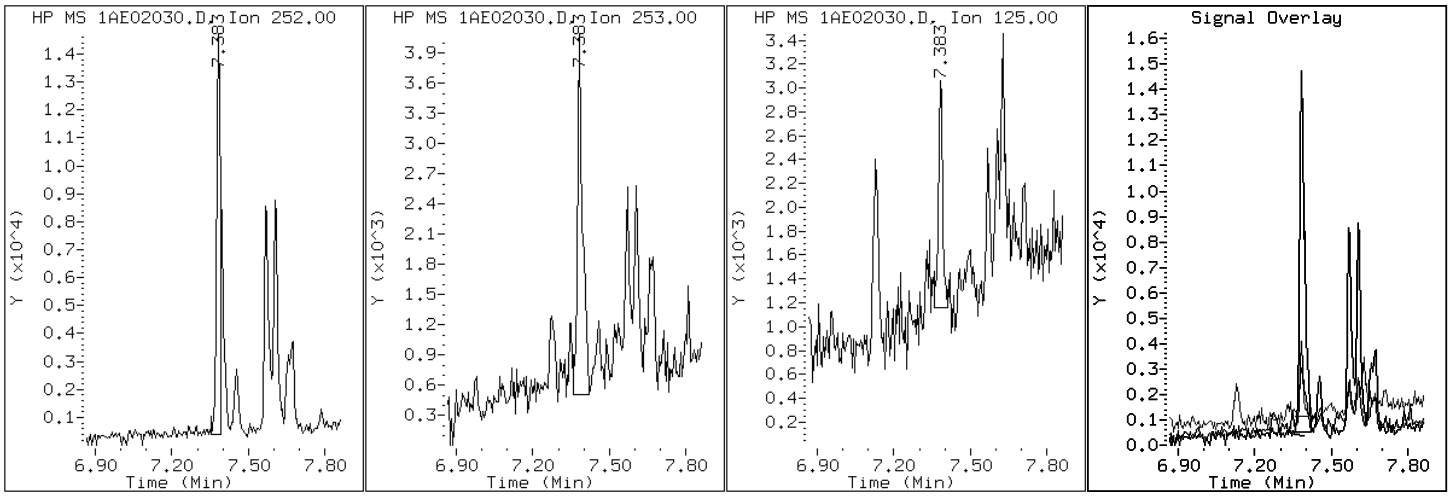
Data File: 1AE02030.D

Date: 02-MAY-2013 22:27

Client ID: CV1144A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-33-a Operator: SCC

20 Benzo(b)fluoranthene



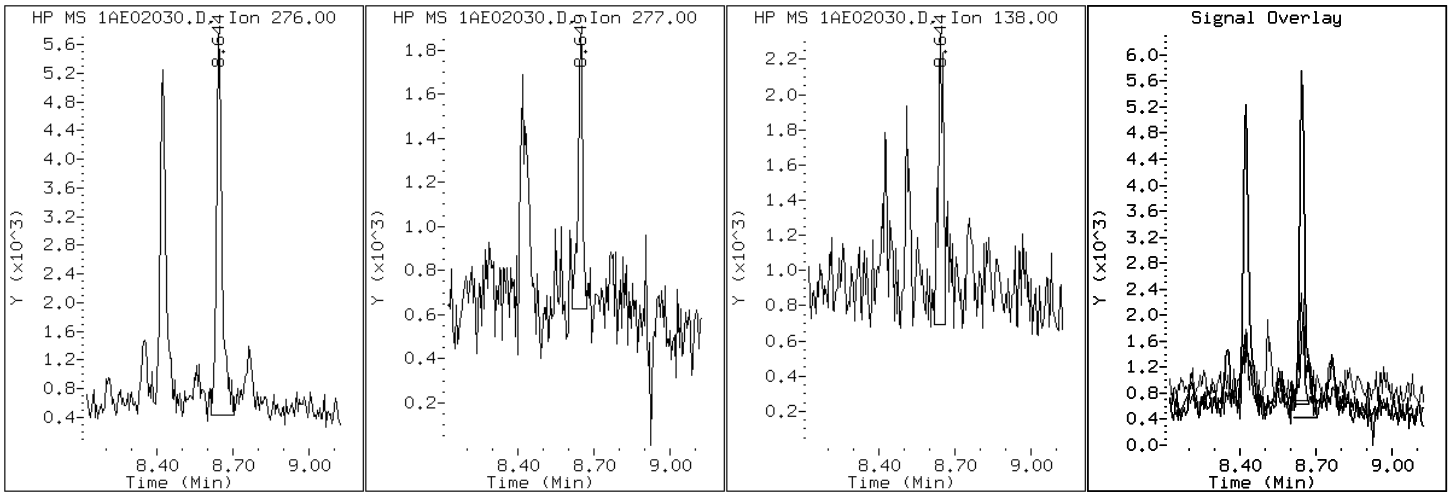
Data File: 1AE02030.D

Date: 02-MAY-2013 22:27

Client ID: CV1144A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-33-a Operator: SCC

26 Benzo(g,h,i)perylene



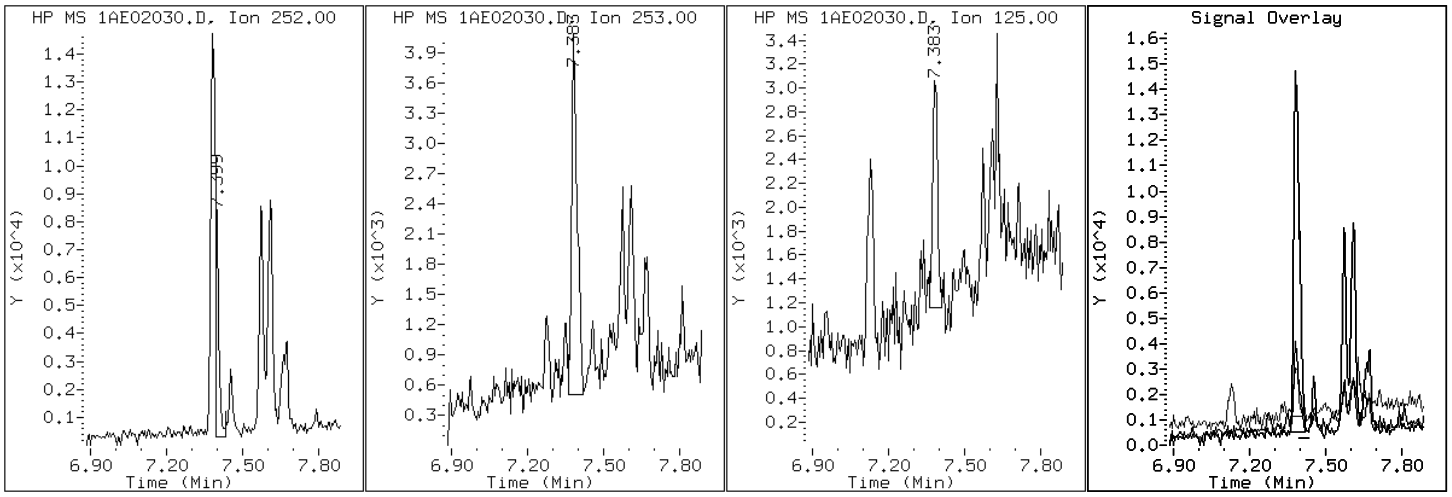
Data File: 1AE02030.D

Date: 02-MAY-2013 22:27

Client ID: CV1144A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-33-a Operator: SCC

21 Benzo(k)fluoranthene



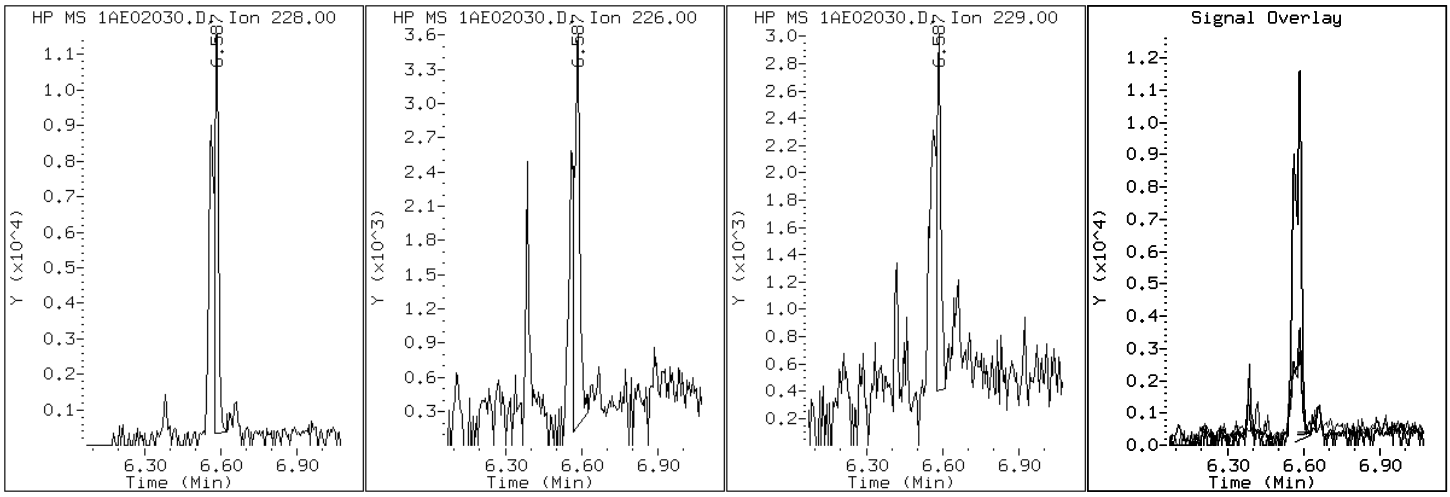
Data File: 1AE02030.D

Date: 02-MAY-2013 22:27

Client ID: CV1144A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-33-a Operator: SCC

19 Chrysene



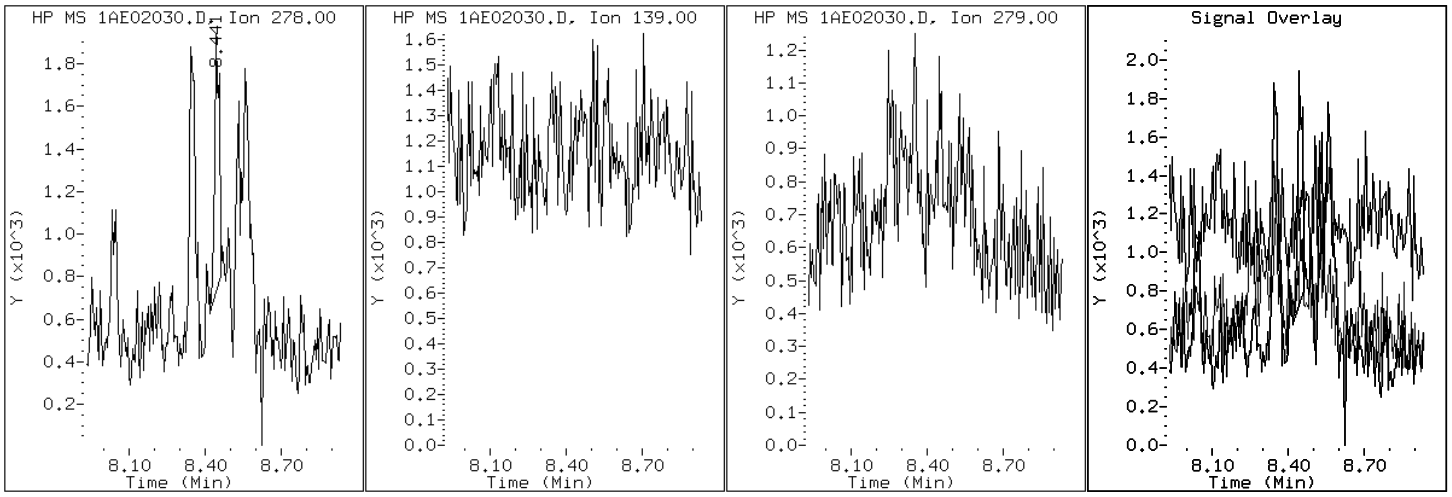
Data File: 1AE02030.D

Date: 02-MAY-2013 22:27

Client ID: CV1144A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-33-a Operator: SCC

25 Dibenzo(a,h)anthracene



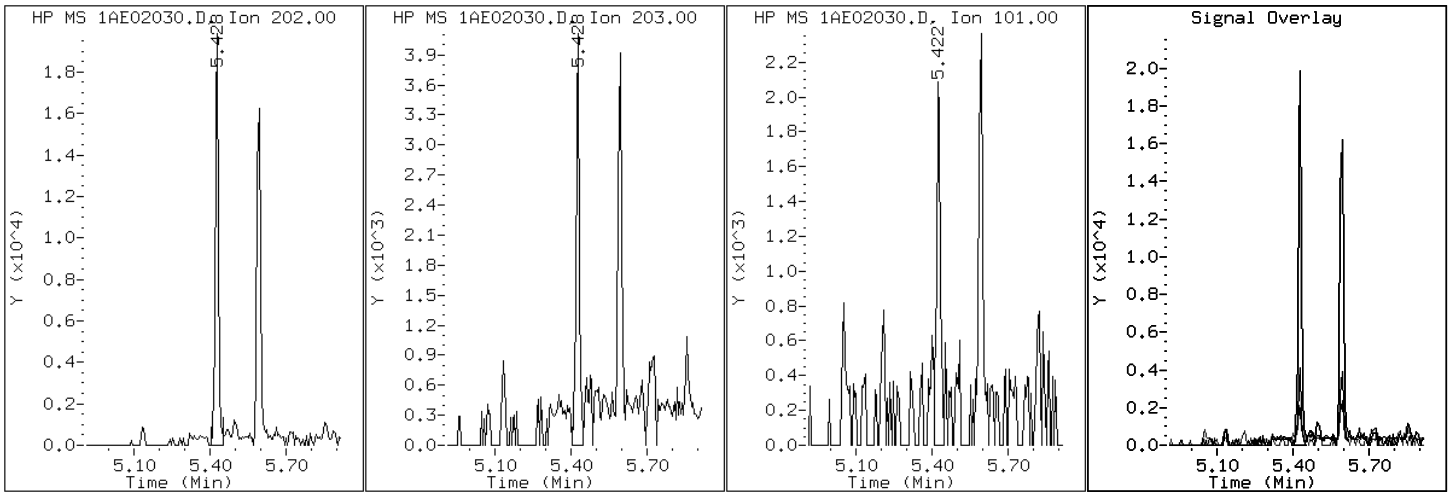
Data File: 1AE02030.D

Date: 02-MAY-2013 22:27

Client ID: CV1144A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-33-a Operator: SCC

15 Fluoranthene



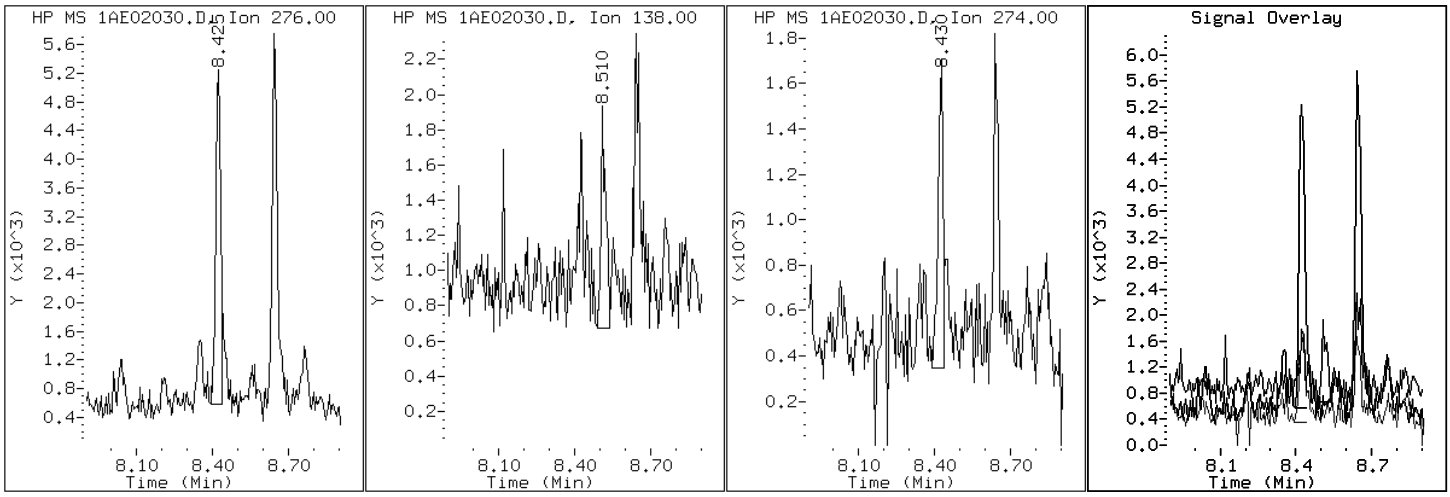
Data File: 1AE02030.D

Date: 02-MAY-2013 22:27

Client ID: CV1144A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-33-a Operator: SCC

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



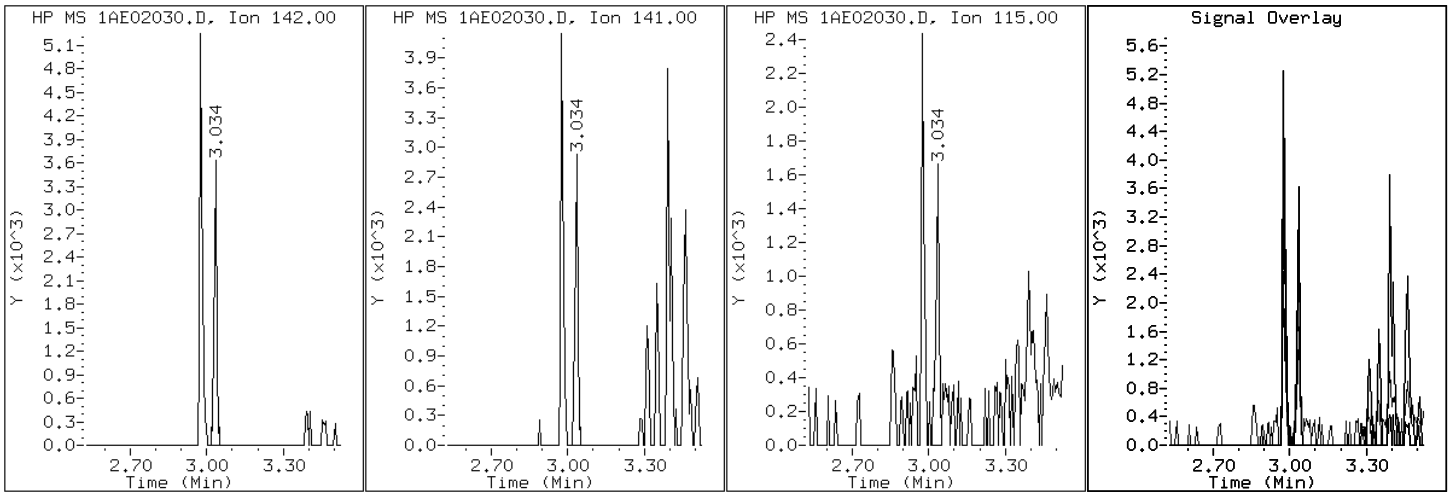
Data File: 1AE02030.D

Date: 02-MAY-2013 22:27

Client ID: CV1144A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-33-a Operator: SCC

4 1-Methylnaphthalene



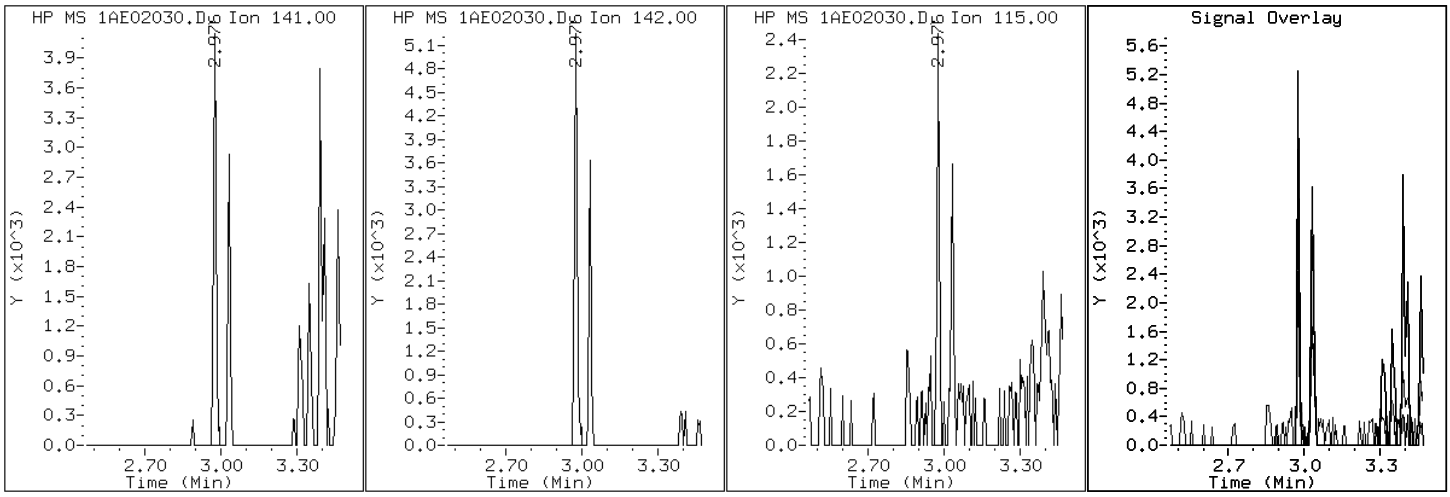
Data File: 1AE02030.D

Date: 02-MAY-2013 22:27

Client ID: CV1144A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-33-a Operator: SCC

3 2-Methylnaphthalene



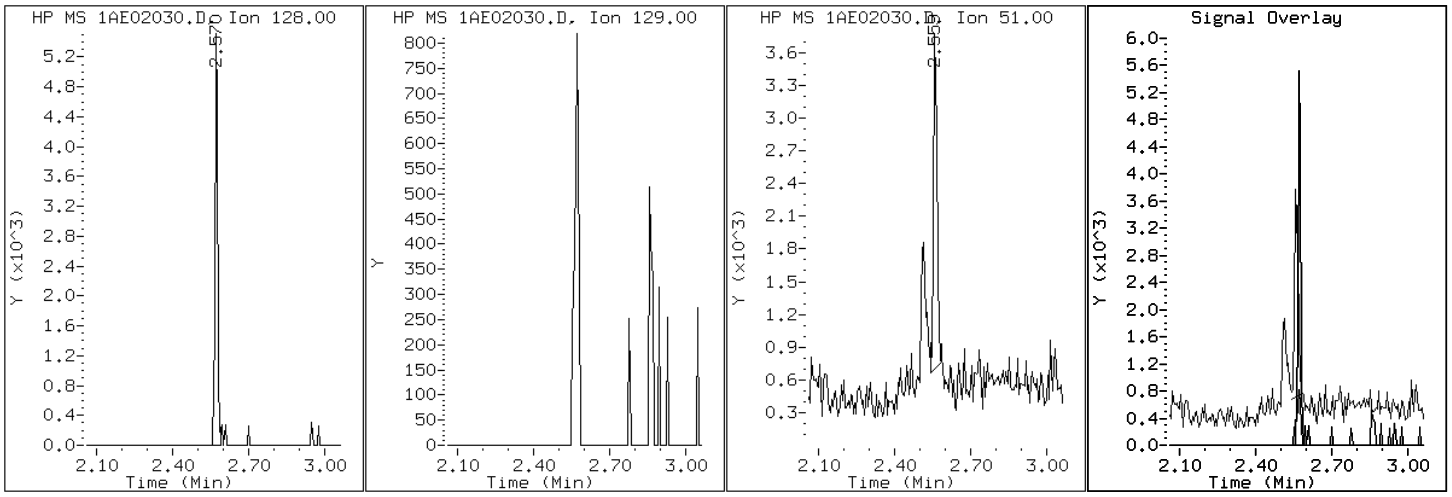
Data File: 1AE02030.D

Date: 02-MAY-2013 22:27

Client ID: CV1144A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-33-a Operator: SCC

2 Naphthalene



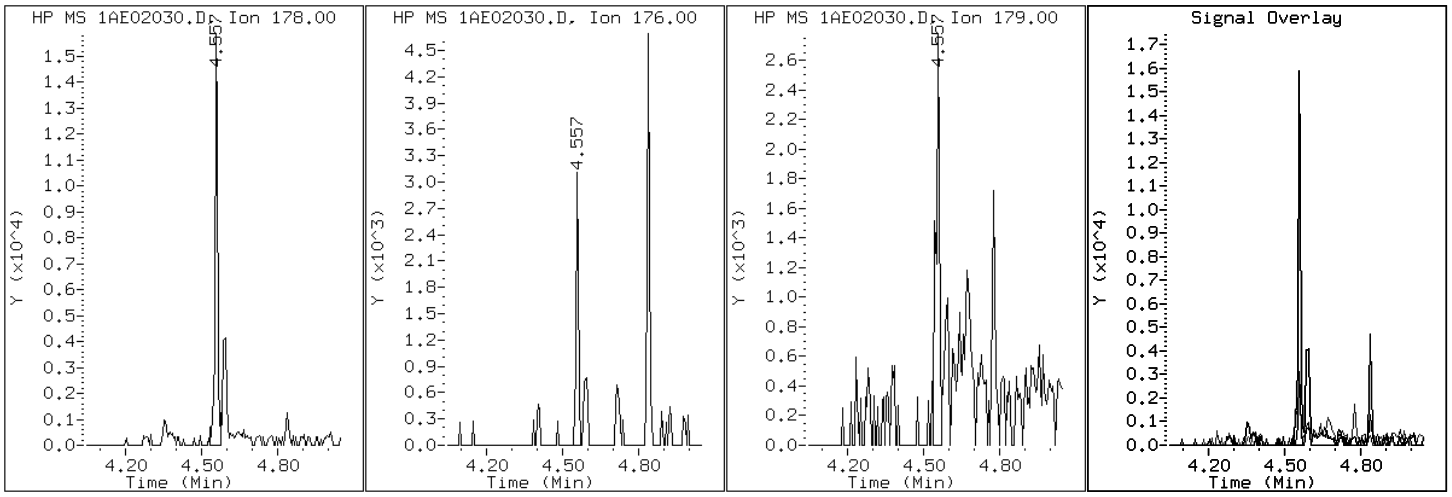
Data File: 1AE02030.D

Date: 02-MAY-2013 22:27

Client ID: CV1144A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-33-a Operator: SCC

11 Phenanthrene



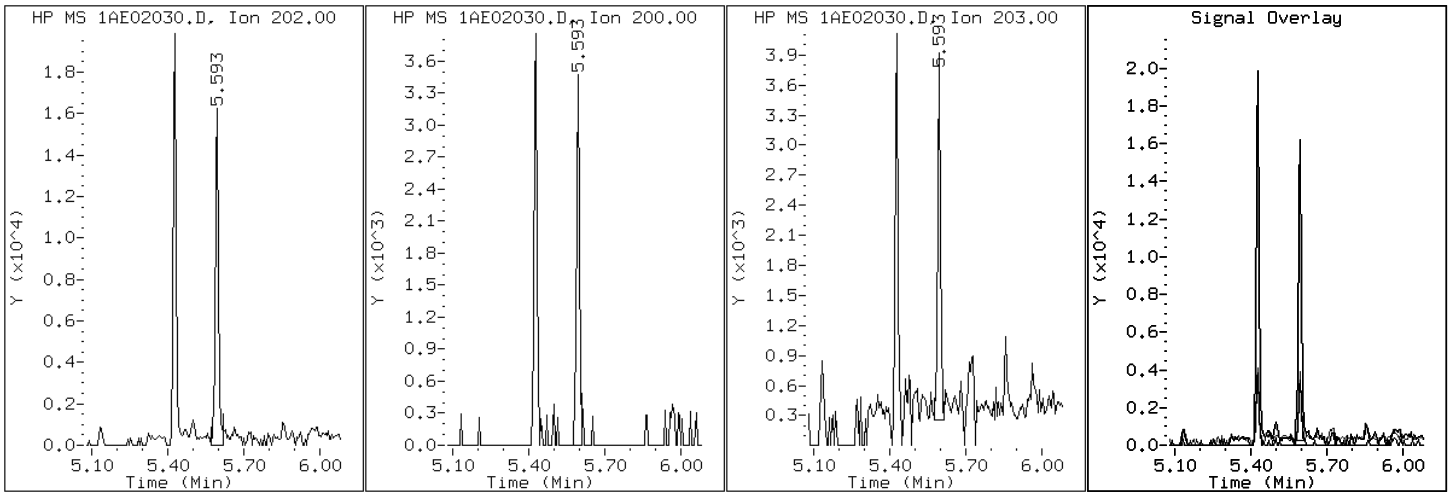
Data File: 1AE02030.D

Date: 02-MAY-2013 22:27

Client ID: CV1144A-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-33-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE02030.D
Inj. Date and Time: 02-MAY-2013 22:27
Instrument ID: BSMA5973.i
Client ID: CV1144A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/03/2013

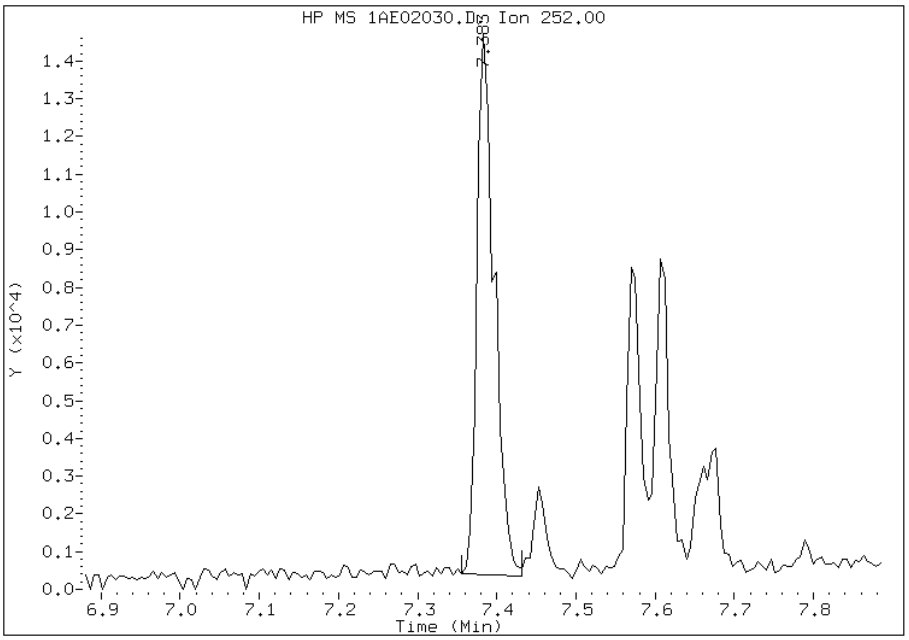
Processing Integration Results

RT: 7.38

Response: 21556

Amount: 1

Conc: 67



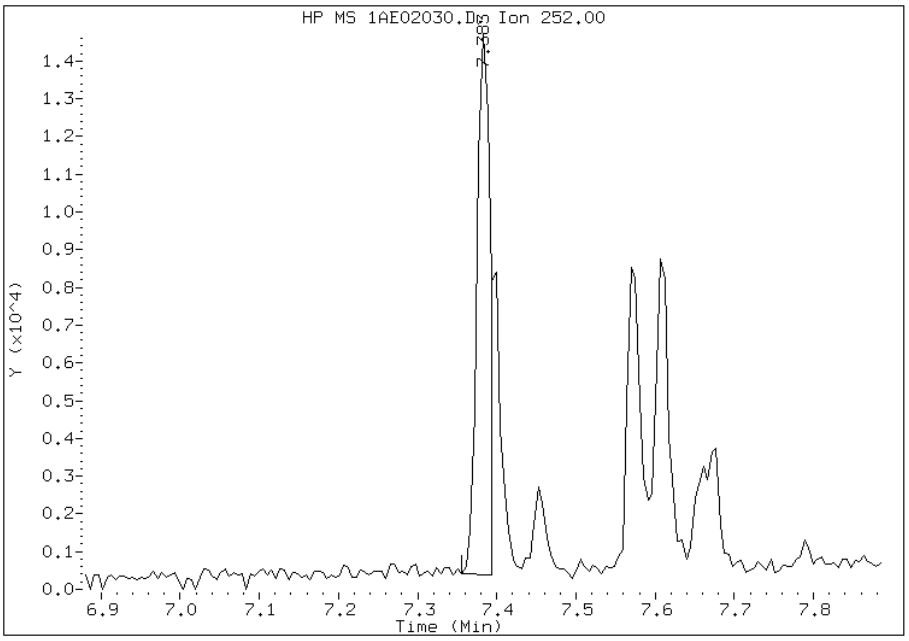
Manual Integration Results

RT: 7.38

Response: 16370

Amount: 1

Conc: 51



Manually Integrated By: cantins
Modification Date: 03-May-2013 12:03
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE02030.D
Inj. Date and Time: 02-MAY-2013 22:27
Instrument ID: BSMA5973.i
Client ID: CV1144A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/03/2013

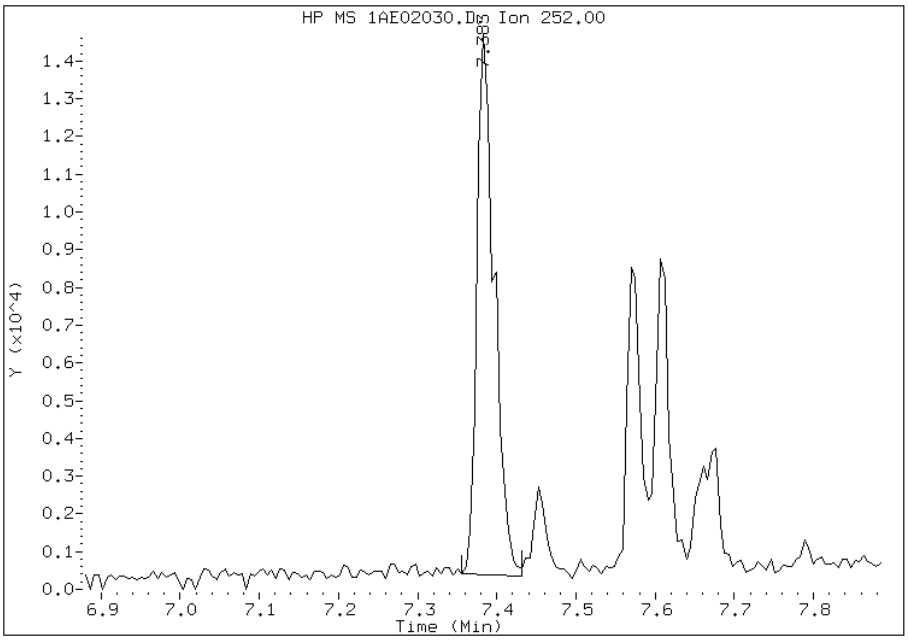
Processing Integration Results

RT: 7.38

Response: 21558

Amount: 1

Conc: 59



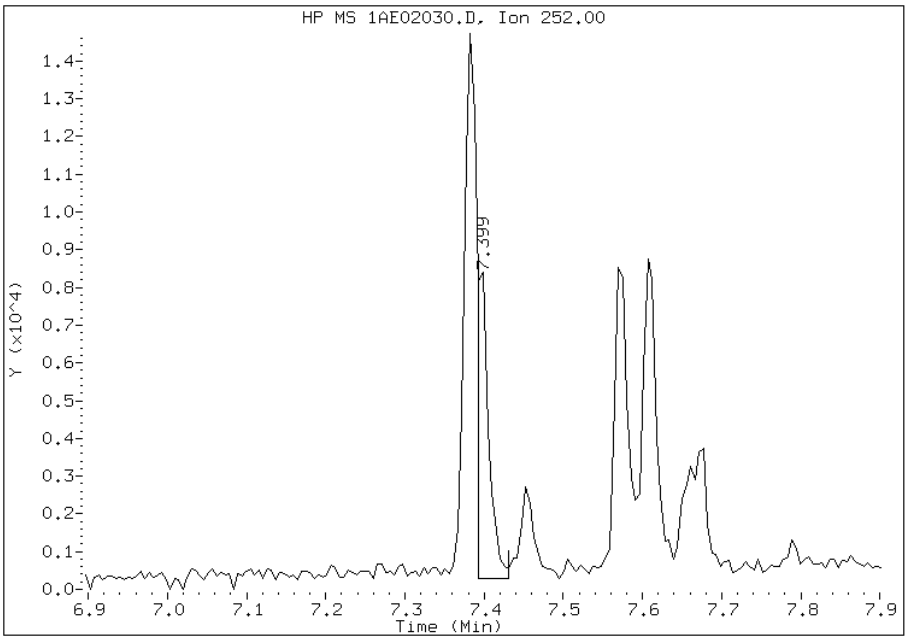
Manual Integration Results

RT: 7.40

Response: 7866

Amount: 0

Conc: 21



Manually Integrated By: cantins
Modification Date: 03-May-2013 12:04
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE02030.D
Inj. Date and Time: 02-MAY-2013 22:27
Instrument ID: BSMA5973.i
Client ID: CV1144A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/03/2013

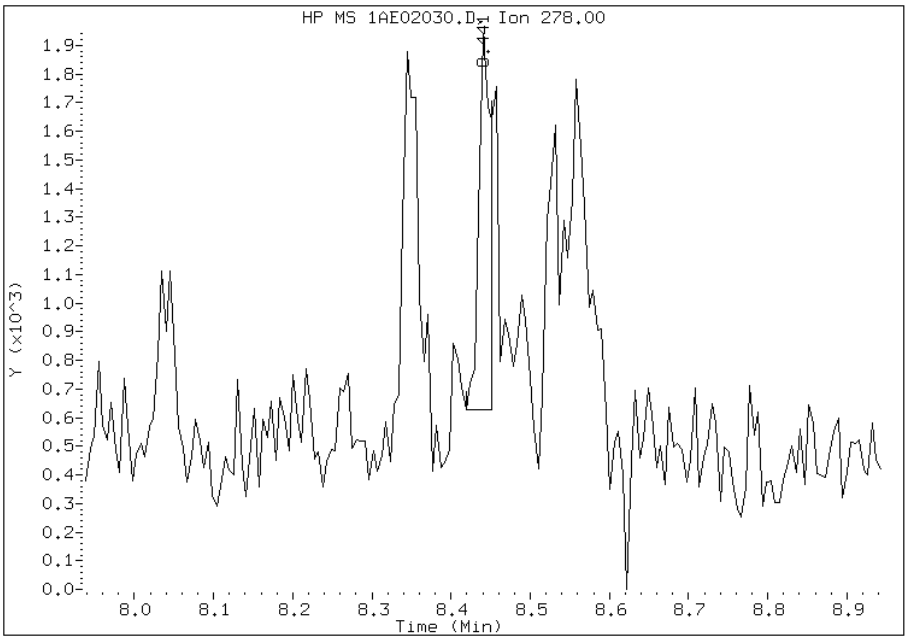
Processing Integration Results

RT: 8.44

Response: 1381

Amount: 0

Conc: 5



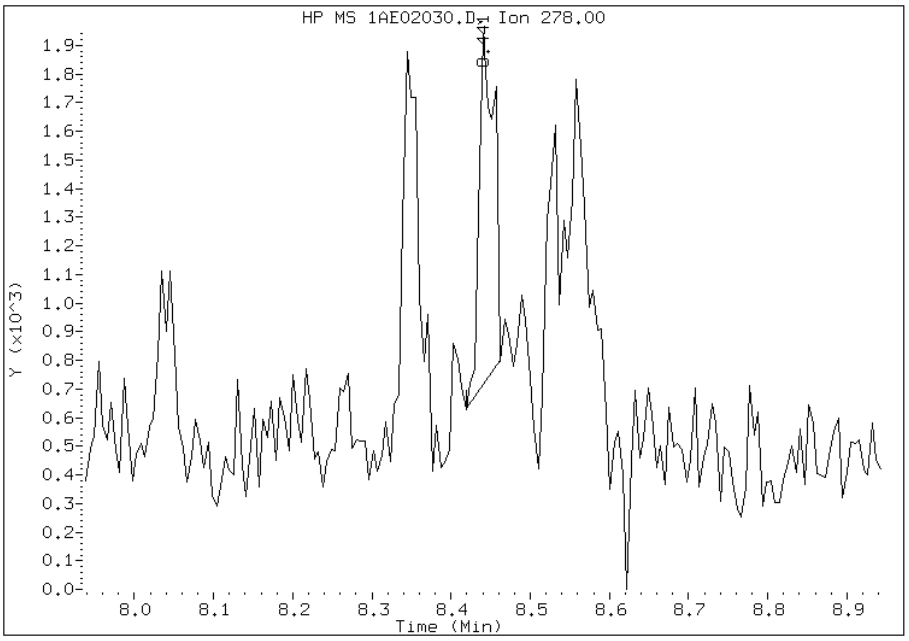
Manual Integration Results

RT: 8.44

Response: 1544

Amount: 0

Conc: 6



Manually Integrated By: cantins
Modification Date: 03-May-2013 12:04
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE02030.D
Inj. Date and Time: 02-MAY-2013 22:27
Instrument ID: BSMA5973.i
Client ID: CV1144A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/03/2013

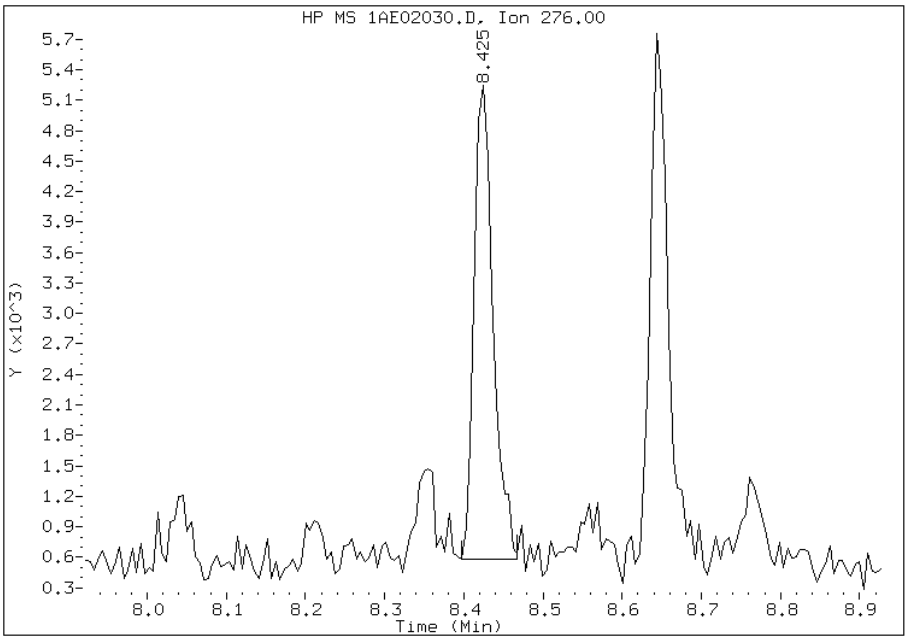
Processing Integration Results

RT: 8.42

Response: 7721

Amount: 0

Conc: 26



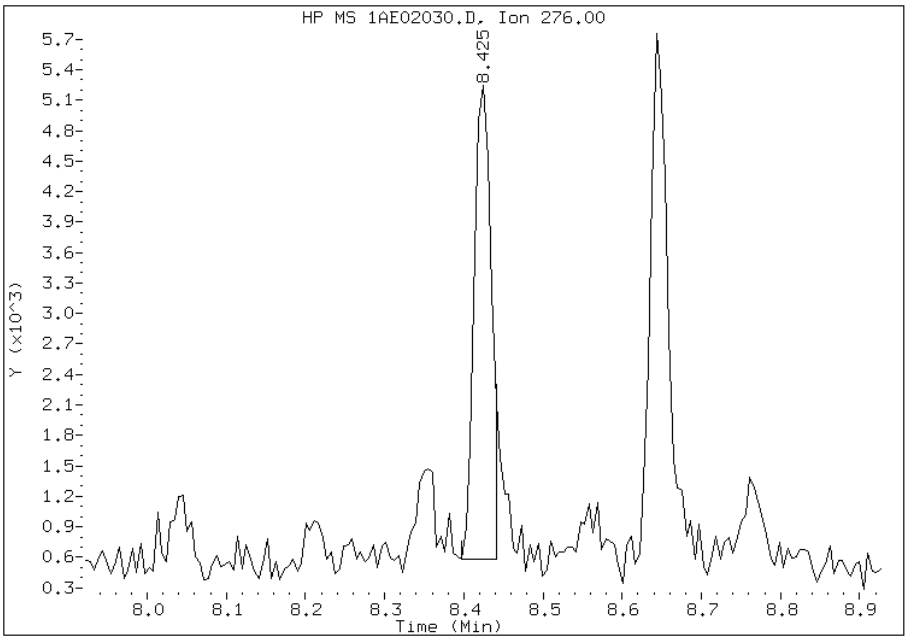
Manual Integration Results

RT: 8.42

Response: 6926

Amount: 0

Conc: 23



Manually Integrated By: cantins
Modification Date: 03-May-2013 12:05
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: CV1144B-CS | Lab Sample ID: 680-89791-34

Matrix: Solid | Lab File ID: 1AE02031.D

Analysis Method: 8270C LL | Date Collected: 04/25/2013 14:15

Extract. Method: 3546 | Date Extracted: 04/30/2013 14:42

Sample wt/vol: 14.95(g) | Date Analyzed: 05/02/2013 22:42

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137070 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	18	J	49	6.2
120-12-7	Anthracene	25		10	5.2
56-55-3	Benzo[a]anthracene	79		9.9	4.8
50-32-8	Benzo[a]pyrene	69		13	6.4
205-99-2	Benzo[b]fluoranthene	100		15	7.5
191-24-2	Benzo[g,h,i]perylene	60		25	5.4
207-08-9	Benzo[k]fluoranthene	53		9.9	4.4
218-01-9	Chrysene	96		11	5.5
53-70-3	Dibenz(a,h)anthracene	13	J	25	5.1
206-44-0	Fluoranthene	100		25	4.9
86-73-7	Fluorene	5.5	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	49		25	8.8
90-12-0	1-Methylnaphthalene	42	J	49	5.4
91-57-6	2-Methylnaphthalene	47	J	49	8.8
91-20-3	Naphthalene	33	J	49	5.4
85-01-8	Phenanthrene	88		9.9	4.8
129-00-0	Pyrene	87		25	4.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02031.D
Lab Smp Id: 680-89791-A-34-A Client Smp ID: CV1144B-CS
Inj Date : 02-MAY-2013 22:42
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89791-a-34-a
Misc Info : 680-89791-A-34-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\a-bFASTPAHi-m.m
Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 28
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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	18.600	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.559	2.550	(1.000)	1125062	40.0000	
* 6 Acenaphthene-d10	164	3.590	3.581	(1.000)	582132	40.0000	
* 10 Phenanthrene-d10	188	4.546	4.532	(1.000)	849031	40.0000	
$ 14 o-Terphenyl	230	4.840	4.831	(1.065)	77049	5.54824	455.9184
* 18 Chrysene-d12	240	6.571	6.551	(1.000)	834321	40.0000	
* 23 Perylene-d12	264	7.666	7.641	(1.000)	923983	40.0000	
2 Naphthalene	128	2.570	2.560	(1.004)	11389	0.40495	33.2764
3 2-Methylnaphthalene	141	2.976	2.972	(1.163)	9317	0.57783	47.4819
4 1-Methylnaphthalene	142	3.034	3.025	(1.186)	9085	0.50856	41.7897
5 Acenaphthylene	152	3.505	3.490	(0.976)	7342	0.21581	17.7334
9 Fluorene	166	3.921	3.912	(1.092)	1435	0.06685	5.4933(Q)
11 Phenanthrene	178	4.557	4.548	(1.002)	26213	1.06580	87.5803
12 Anthracene	178	4.589	4.580	(1.009)	7926	0.30993	25.4683
13 Carbazole	167	4.728	4.713	(1.040)	3834	0.15541	12.7705

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	5.428	5.413	(1.194)	36192	1.27403	104.6916
16 Pyrene	202	5.593	5.579	(0.851)	33818	1.06246	87.3060
17 Benzo(a)anthracene	228	6.566	6.540	(0.999)	26260	0.96379	79.1983
19 Chrysene	228	6.587	6.572	(1.002)	32298	1.16844	96.0144
20 Benzo(b)fluoranthene	252	7.388	7.363	(0.964)	35811	1.27661	104.9038(M)
21 Benzo(k)fluoranthene	252	7.394	7.384	(0.964)	20691	0.64154	52.7173(M)
22 Benzo(a)pyrene	252	7.613	7.593	(0.993)	23349	0.83670	68.7543
24 Indeno(1,2,3-cd)pyrene	276	8.435	8.405	(1.100)	15756	0.59797	49.1371(M)
25 Dibenzo(a,h)anthracene	278	8.457	8.431	(1.103)	3951	0.16116	13.2427
26 Benzo(g,h,i)perylene	276	8.654	8.624	(1.129)	21358	0.72425	59.5142

QC Flag Legend

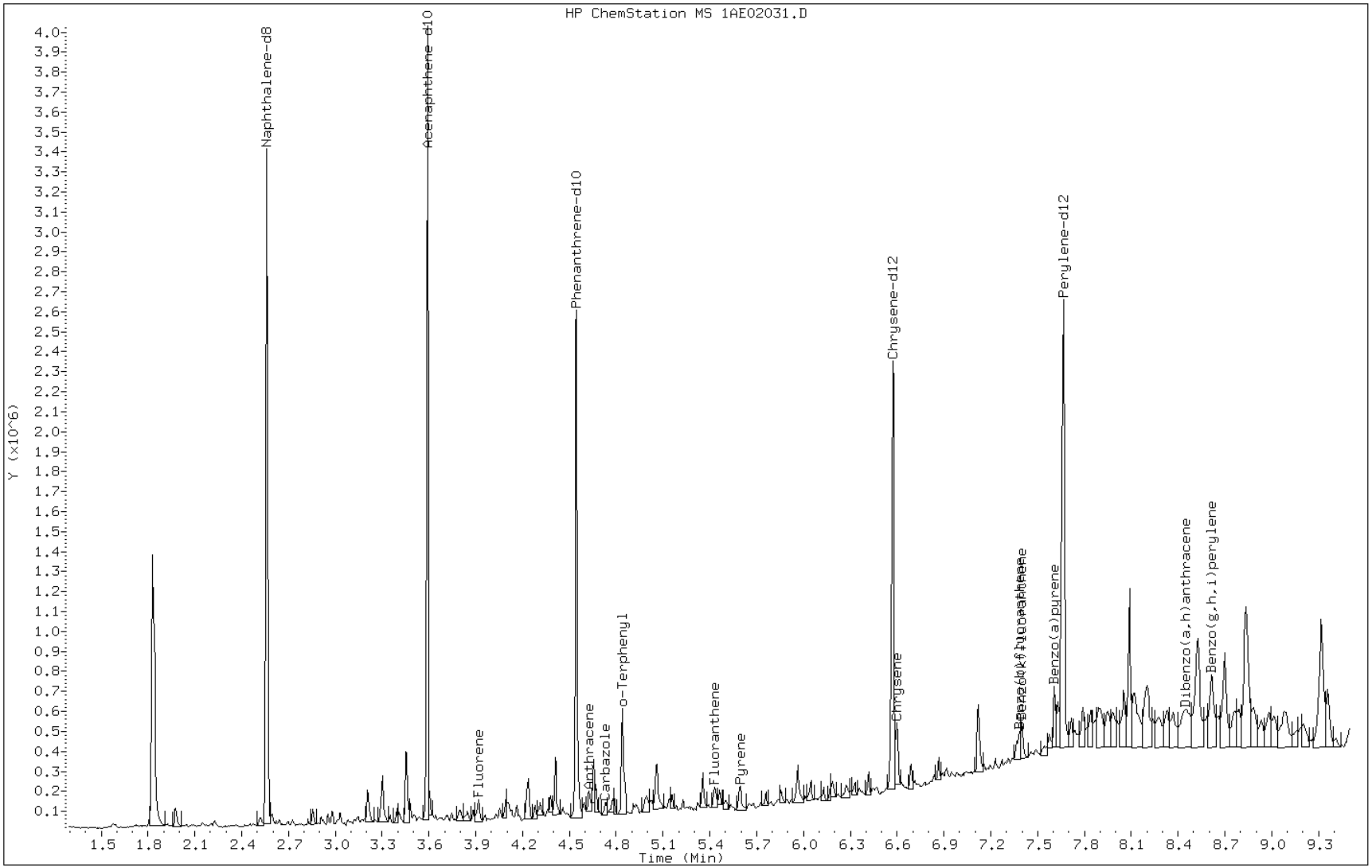
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE02031.D

Date: 02-MAY-2013 22:42

Client ID: CV1144B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-34-a Operator: SCC



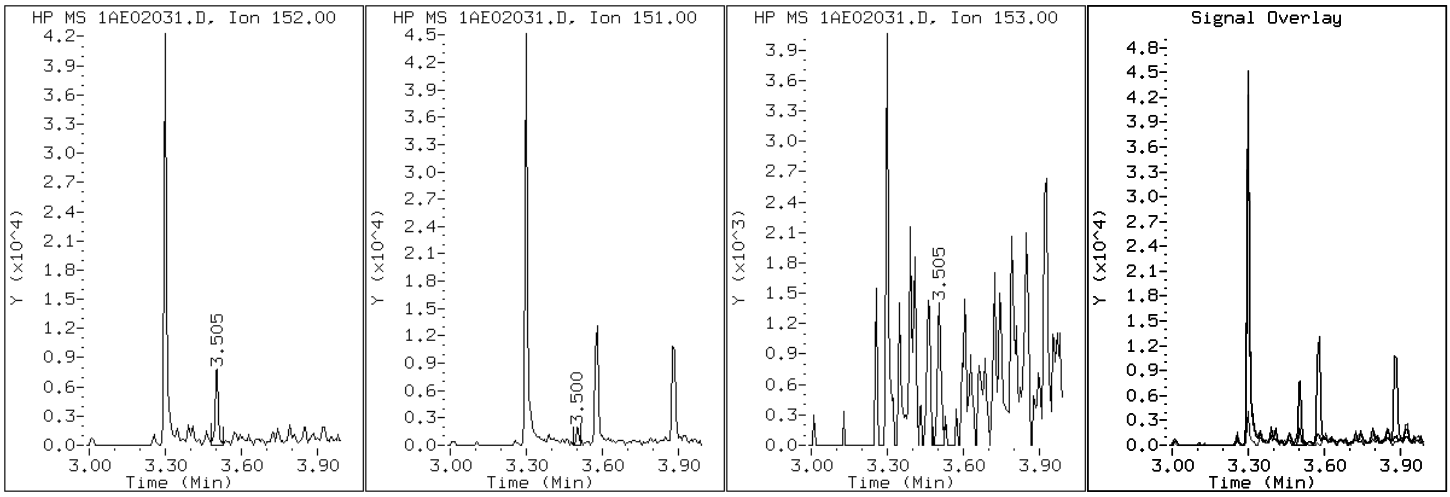
Data File: 1AE02031.D

Date: 02-MAY-2013 22:42

Client ID: CV1144B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-34-a Operator: SCC

5 Acenaphthylene



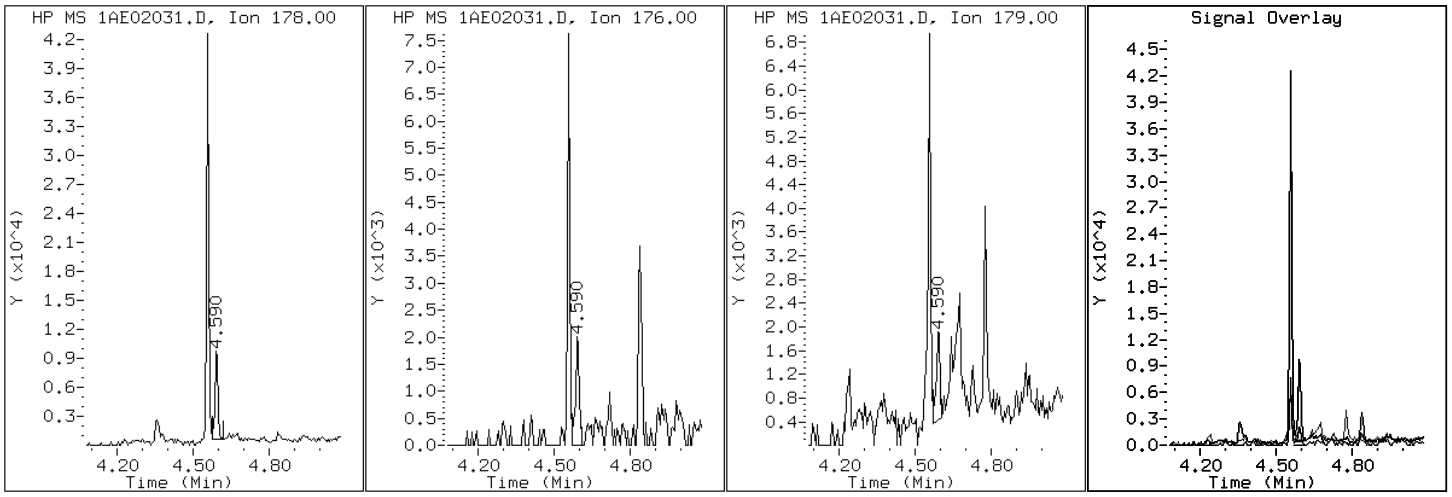
Data File: 1AE02031.D

Date: 02-MAY-2013 22:42

Client ID: CV1144B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-34-a Operator: SCC

12 Anthracene



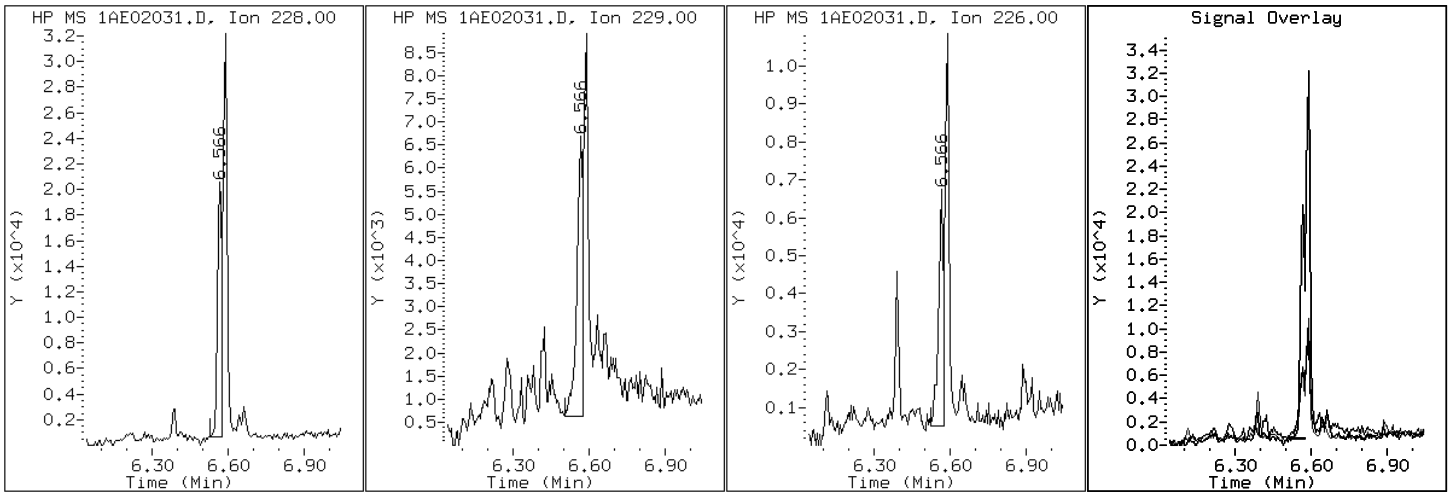
Data File: 1AE02031.D

Date: 02-MAY-2013 22:42

Client ID: CV1144B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-34-a Operator: SCC

17 Benzo(a)anthracene



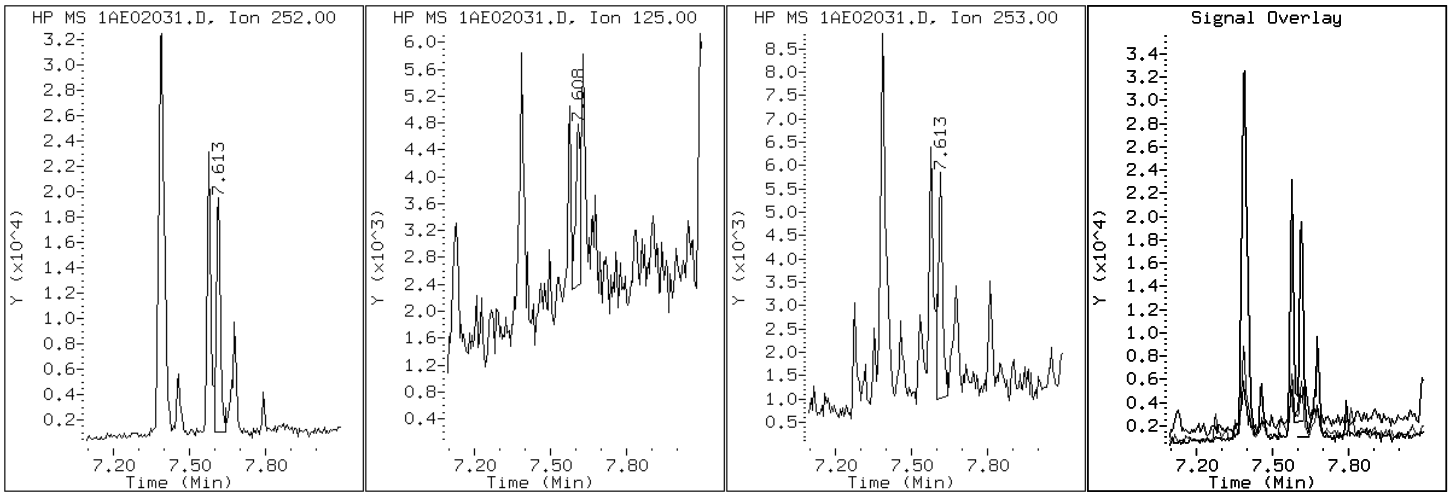
Data File: 1AE02031.D

Date: 02-MAY-2013 22:42

Client ID: CV1144B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-34-a Operator: SCC

22 Benzo(a)pyrene



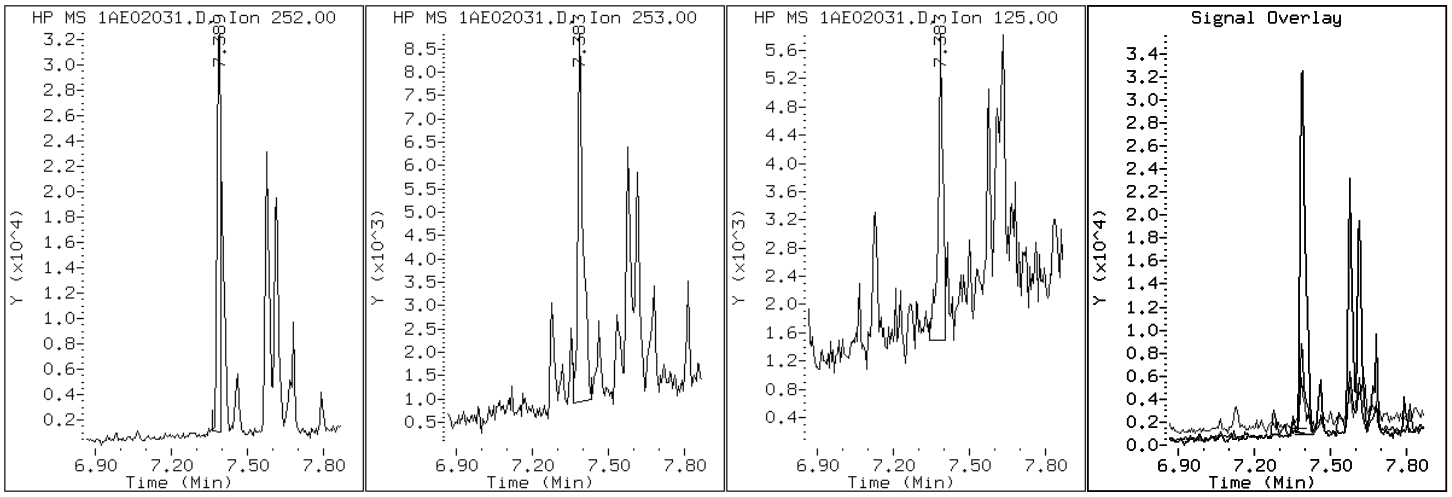
Data File: 1AE02031.D

Date: 02-MAY-2013 22:42

Client ID: CV1144B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-34-a Operator: SCC

20 Benzo(b)fluoranthene



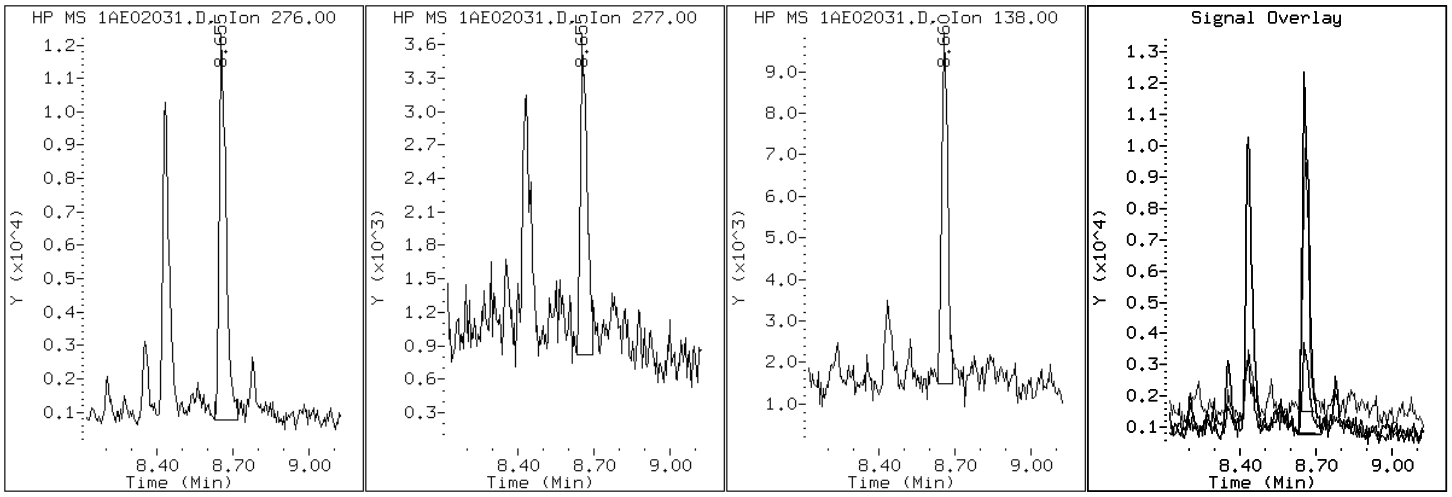
Data File: 1AE02031.D

Date: 02-MAY-2013 22:42

Client ID: CV1144B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-34-a Operator: SCC

26 Benzo(g,h,i)perylene



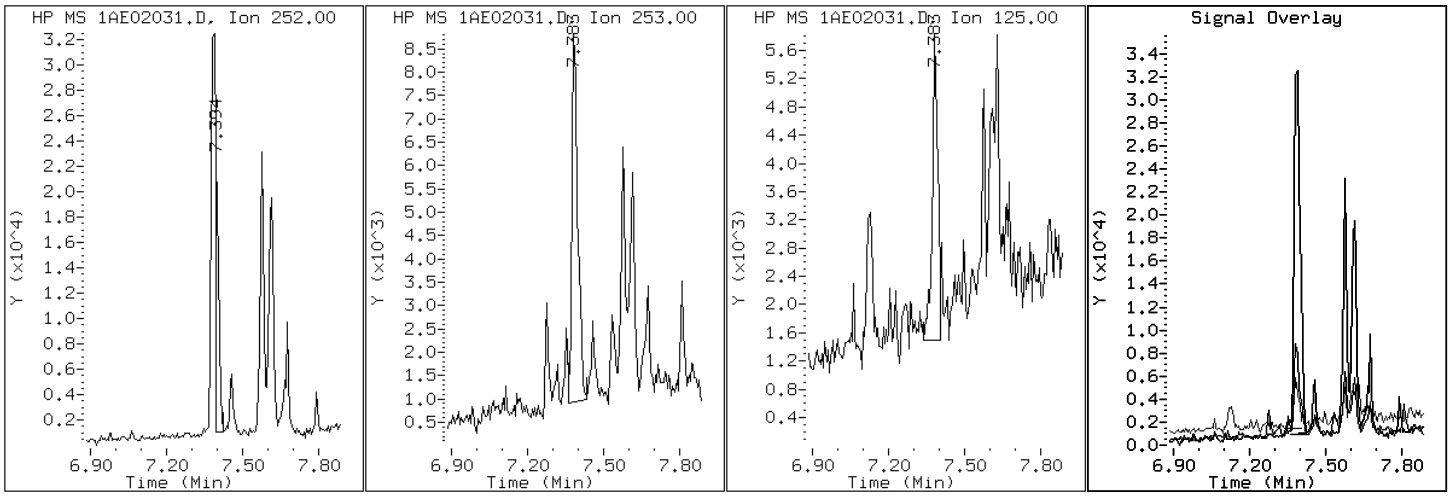
Data File: 1AE02031.D

Date: 02-MAY-2013 22:42

Client ID: CV1144B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-34-a Operator: SCC

21 Benzo(k)fluoranthene



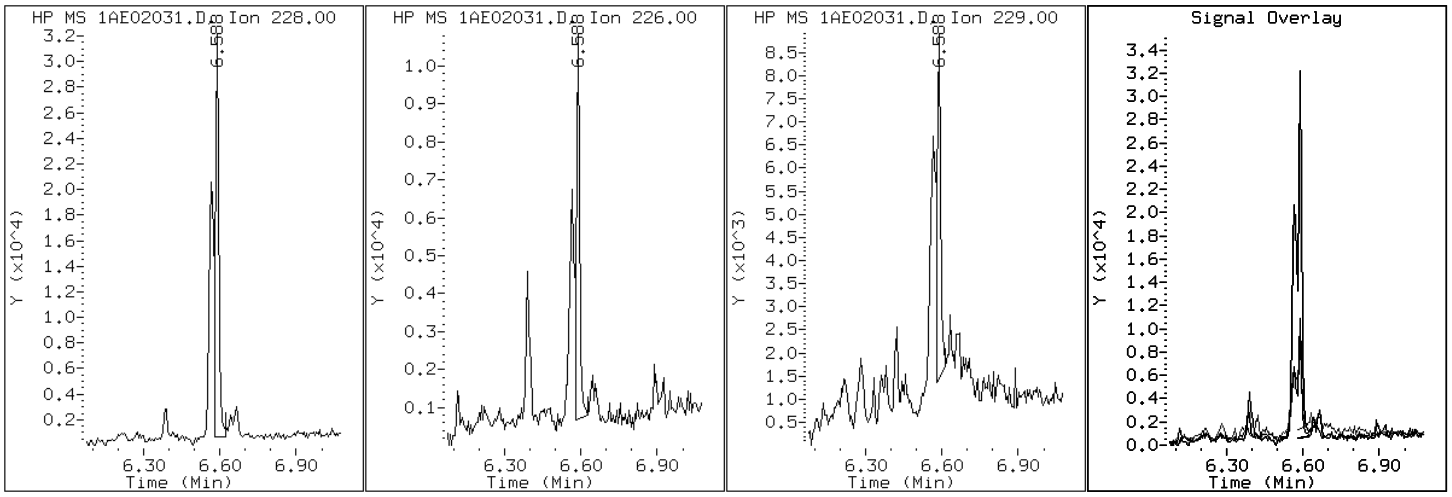
Data File: 1AE02031.D

Date: 02-MAY-2013 22:42

Client ID: CV1144B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-34-a Operator: SCC

19 Chrysene



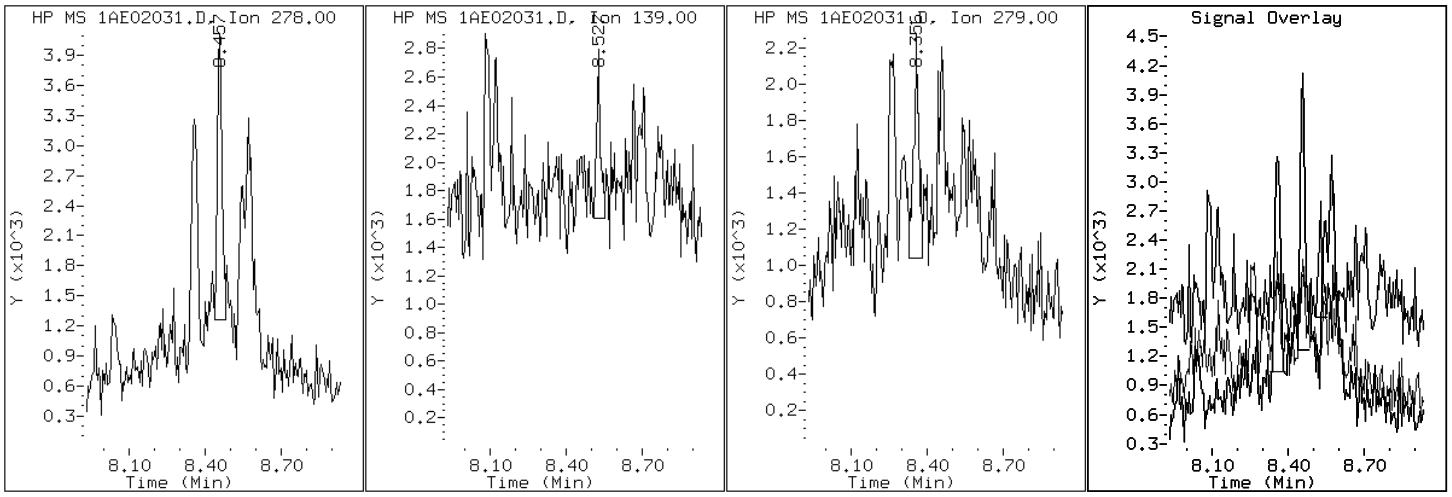
Data File: 1AE02031.D

Date: 02-MAY-2013 22:42

Client ID: CV1144B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-34-a Operator: SCC

25 Dibenzo(a,h)anthracene



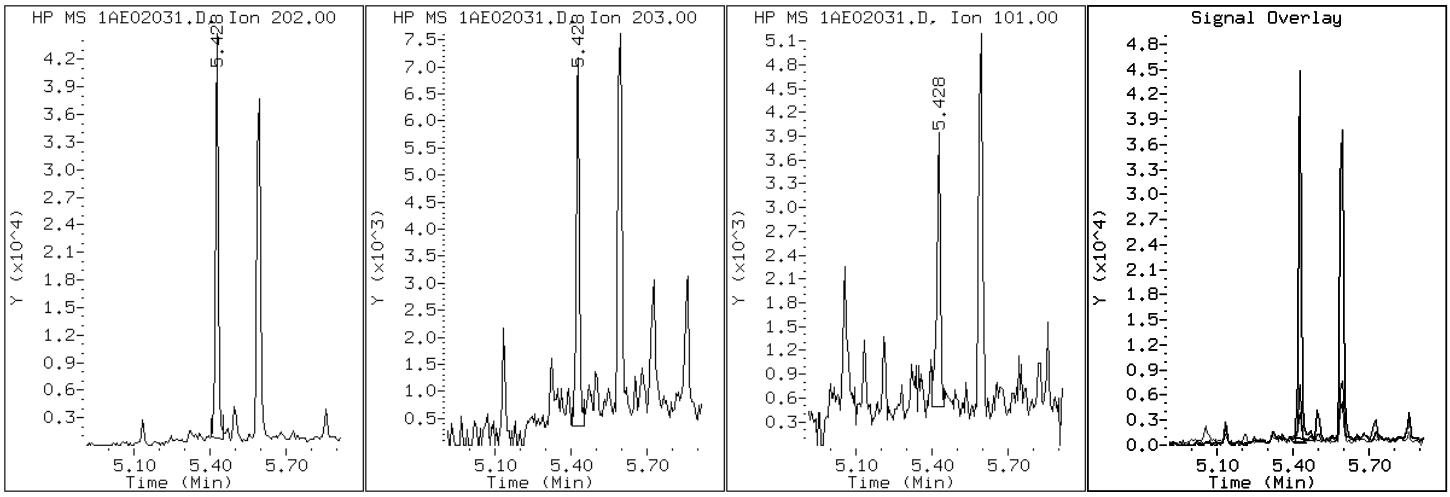
Data File: 1AE02031.D

Date: 02-MAY-2013 22:42

Client ID: CV1144B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-34-a Operator: SCC

15 Fluoranthene



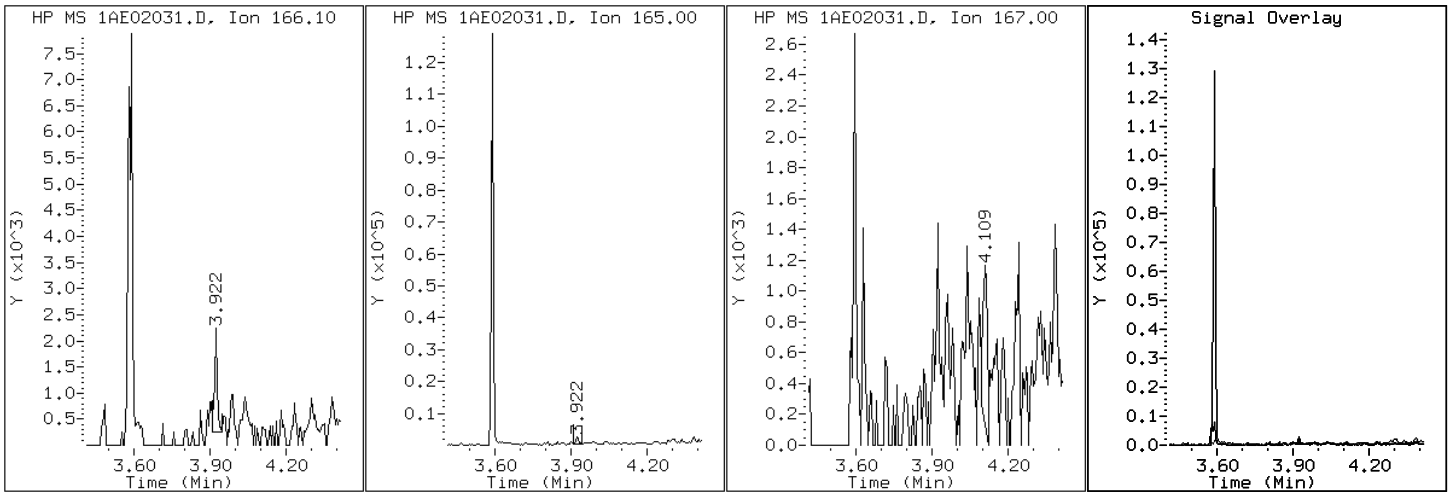
Data File: 1AE02031.D

Date: 02-MAY-2013 22:42

Client ID: CV1144B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-34-a Operator: SCC

9 Fluorene



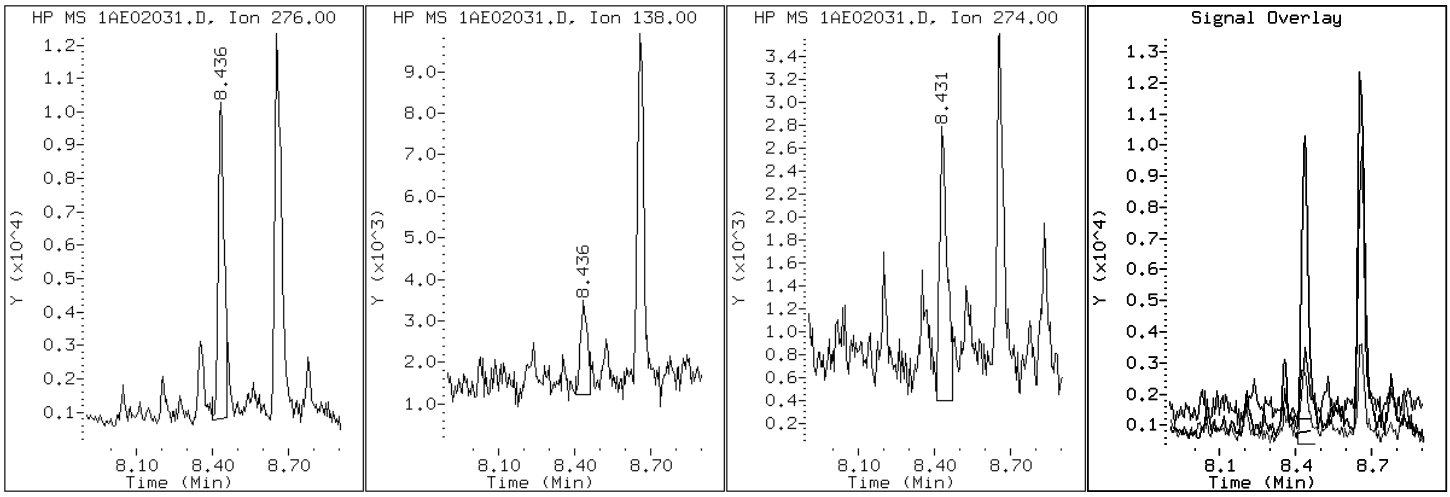
Data File: 1AE02031.D

Date: 02-MAY-2013 22:42

Client ID: CV1144B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-34-a Operator: SCC

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



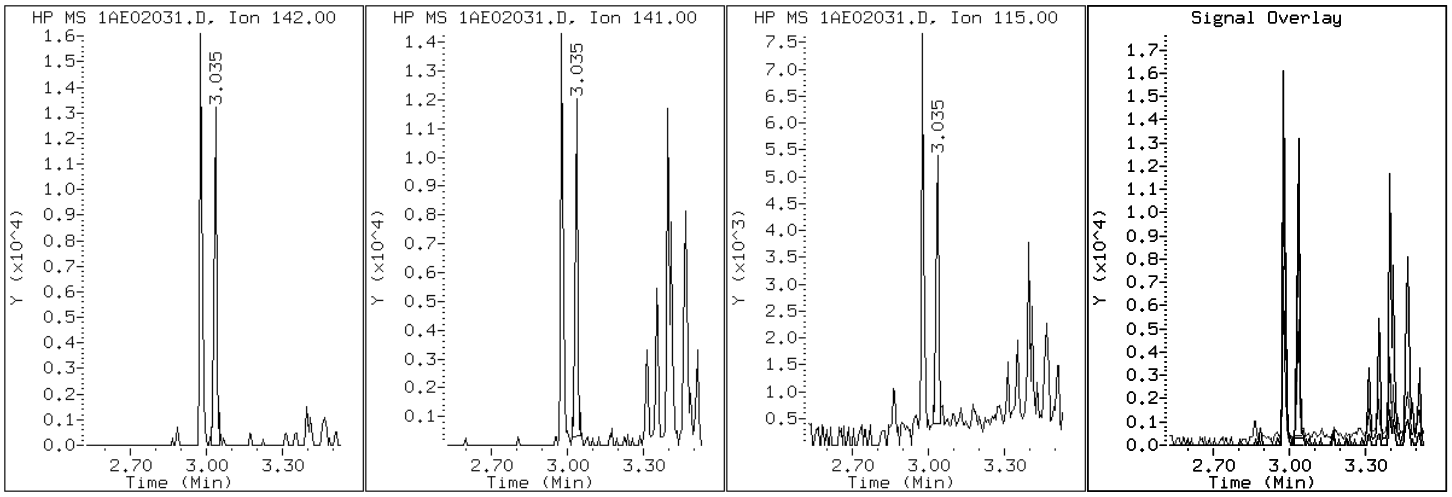
Data File: 1AE02031.D

Date: 02-MAY-2013 22:42

Client ID: CV1144B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-34-a Operator: SCC

4 1-Methylnaphthalene



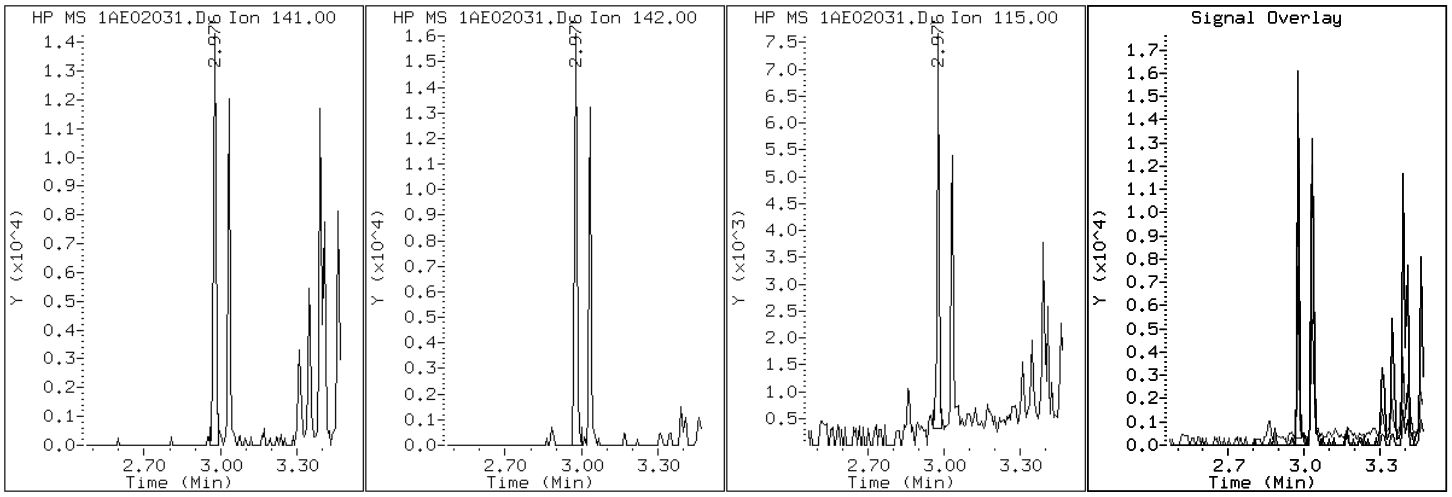
Data File: 1AE02031.D

Date: 02-MAY-2013 22:42

Client ID: CV1144B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-34-a Operator: SCC

3 2-Methylnaphthalene



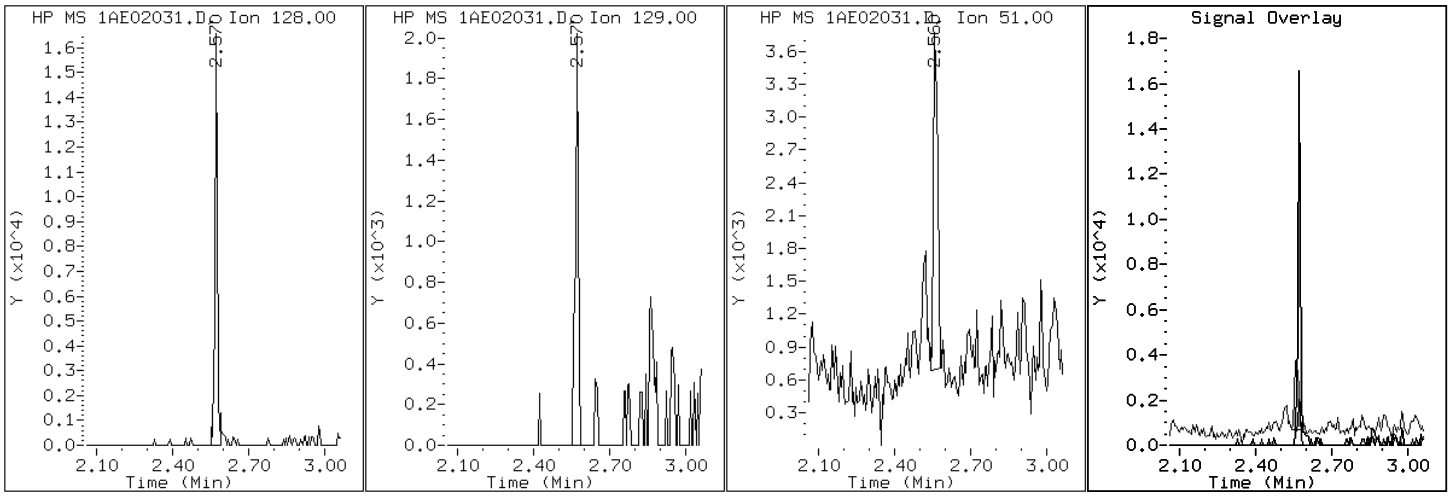
Data File: 1AE02031.D

Date: 02-MAY-2013 22:42

Client ID: CV1144B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-34-a Operator: SCC

2 Naphthalene



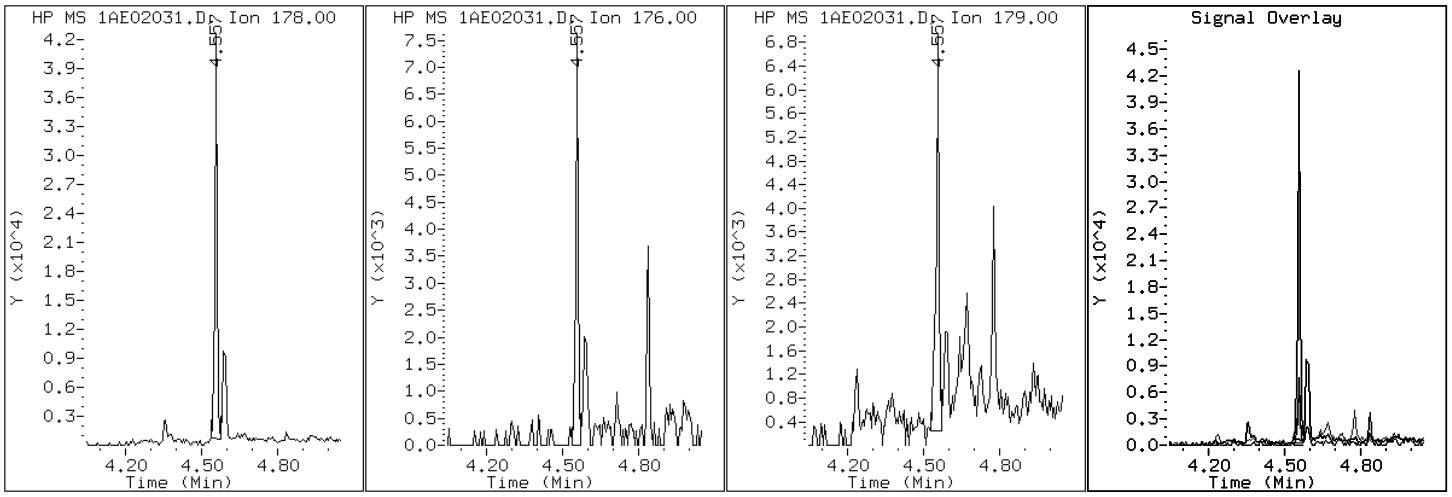
Data File: 1AE02031.D

Date: 02-MAY-2013 22:42

Client ID: CV1144B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-34-a Operator: SCC

11 Phenanthrene



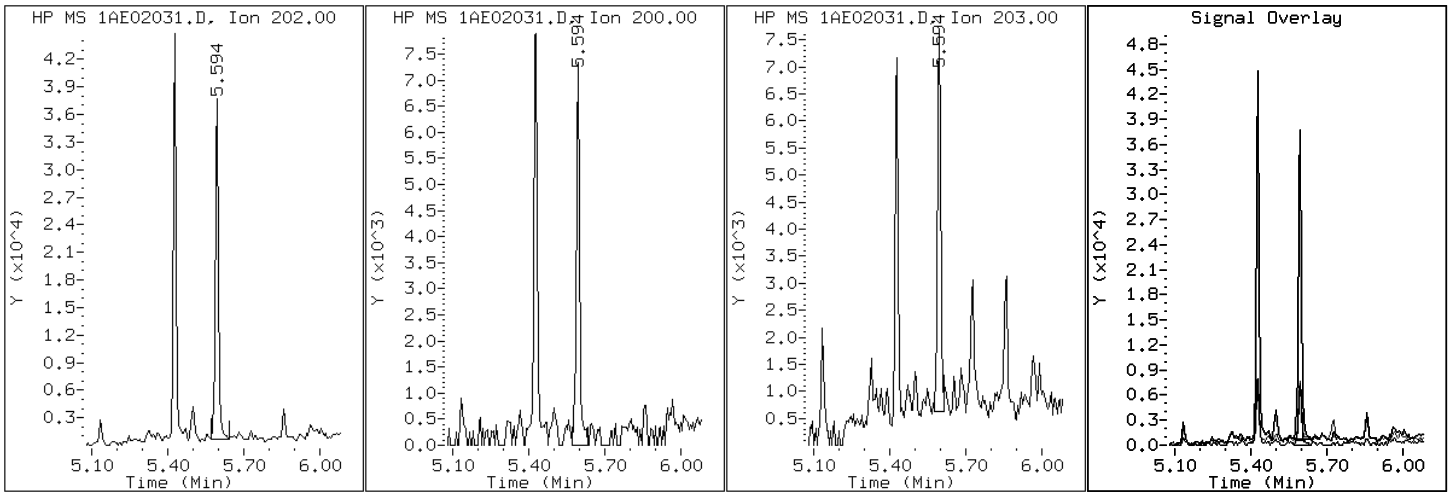
Data File: 1AE02031.D

Date: 02-MAY-2013 22:42

Client ID: CV1144B-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-34-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE02031.D
Inj. Date and Time: 02-MAY-2013 22:42
Instrument ID: BSMA5973.i
Client ID: CV1144B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/03/2013

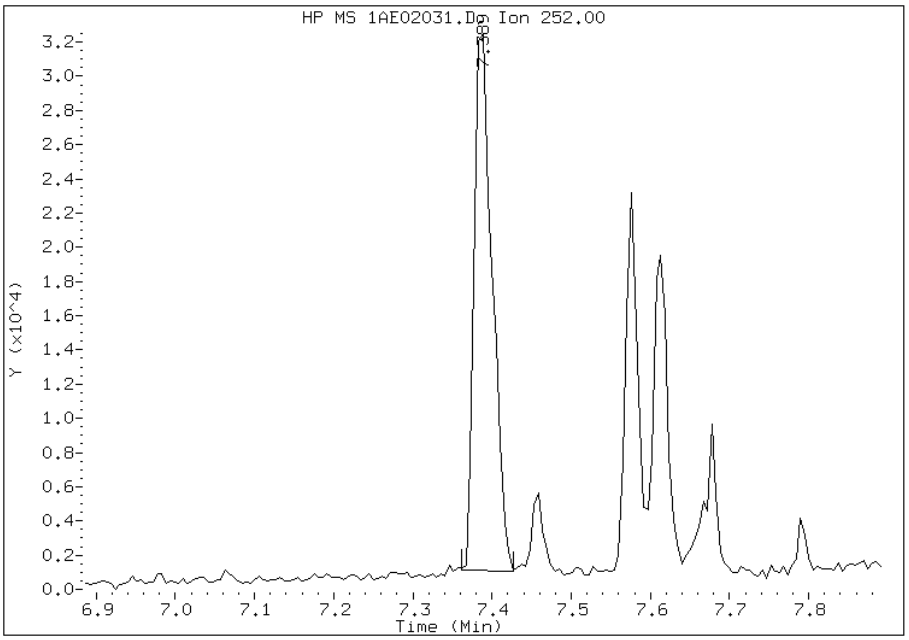
Processing Integration Results

RT: 7.39

Response: 49474

Amount: 2

Conc: 145



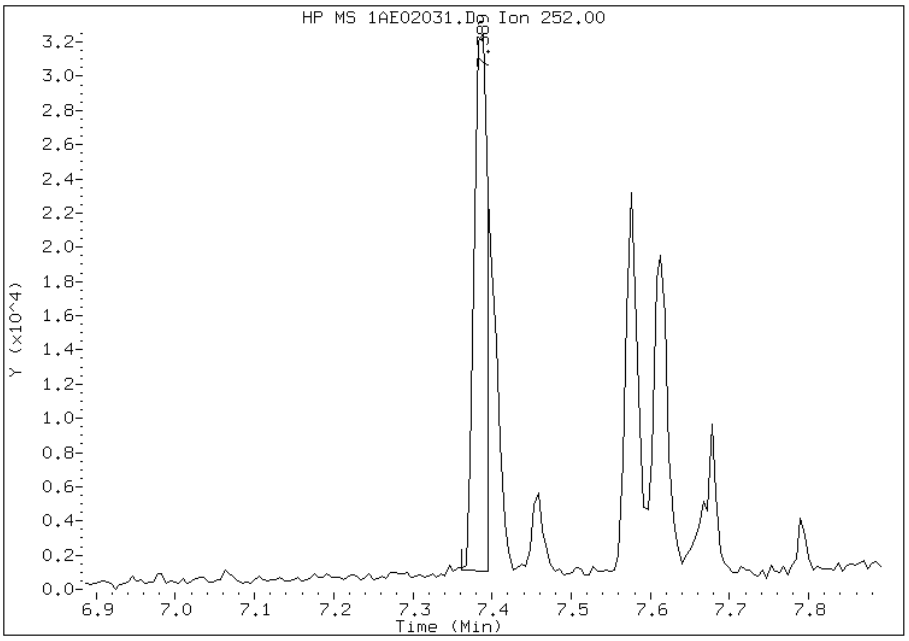
Manual Integration Results

RT: 7.39

Response: 35811

Amount: 1

Conc: 105



Manually Integrated By: cantins
Modification Date: 03-May-2013 12:05
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE02031.D
Inj. Date and Time: 02-MAY-2013 22:42
Instrument ID: BSMA5973.i
Client ID: CV1144B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/03/2013

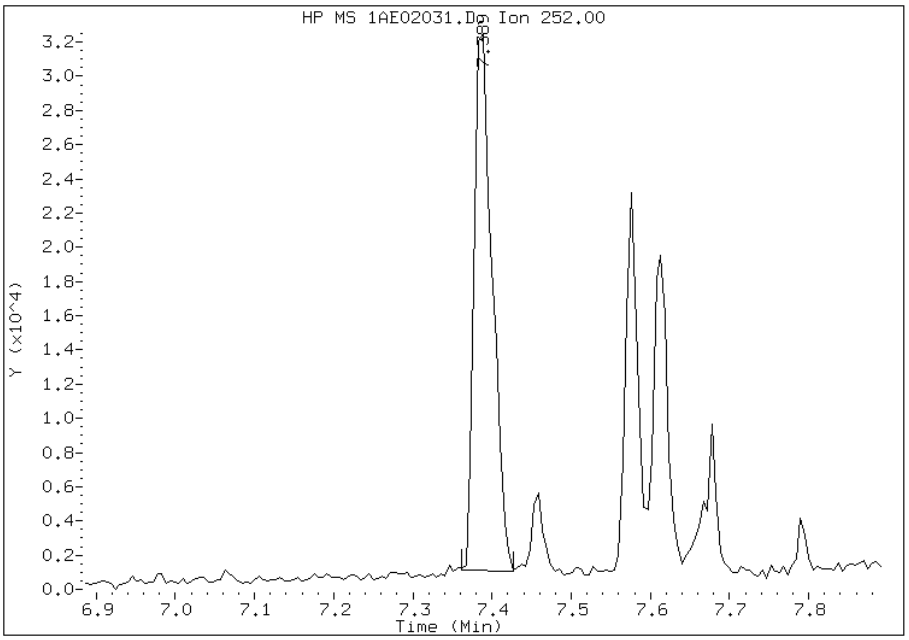
Processing Integration Results

RT: 7.39

Response: 49474

Amount: 2

Conc: 126



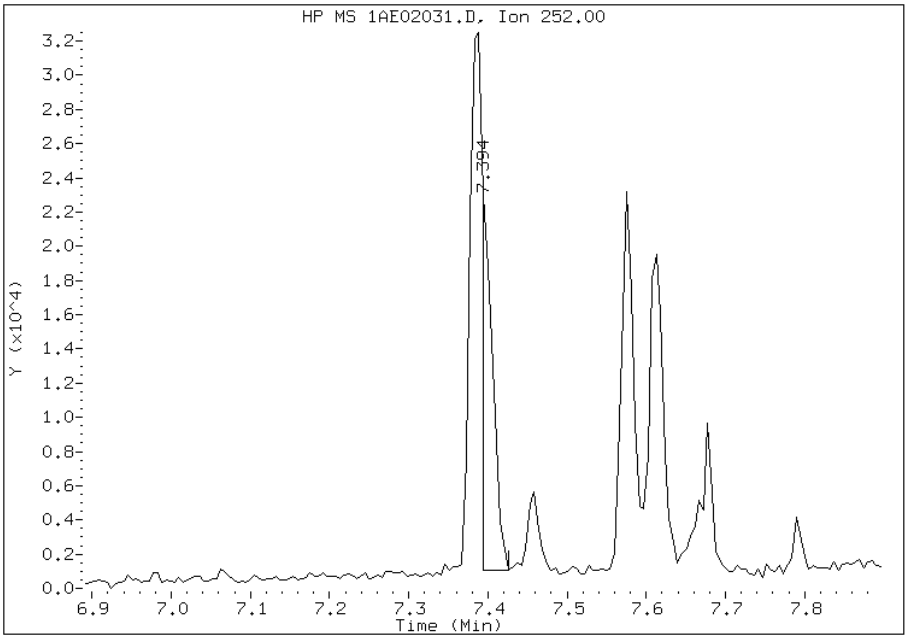
Manual Integration Results

RT: 7.39

Response: 20691

Amount: 1

Conc: 53



Manually Integrated By: cantins
Modification Date: 03-May-2013 12:06
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE02031.D
Inj. Date and Time: 02-MAY-2013 22:42
Instrument ID: BSMA5973.i
Client ID: CV1144B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/03/2013

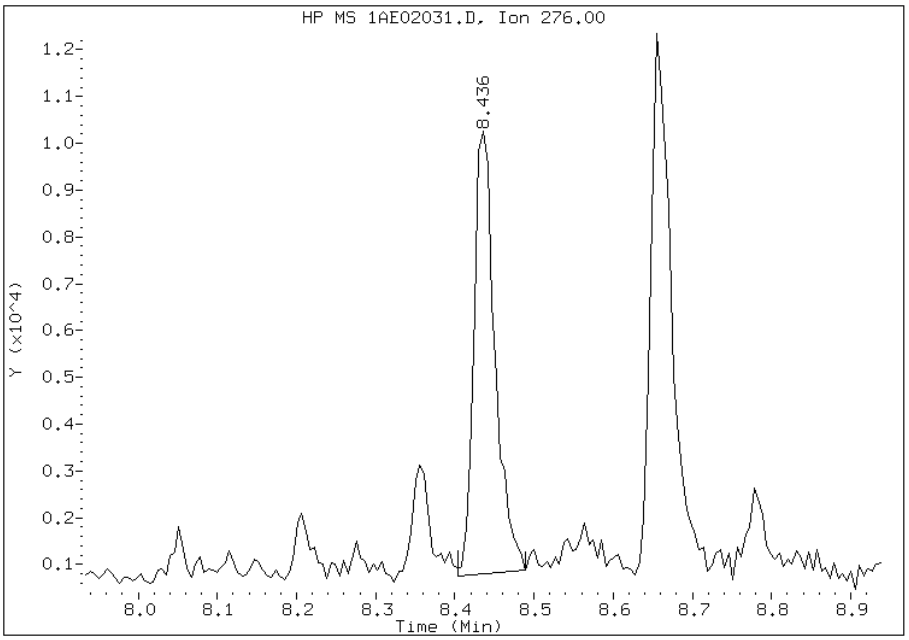
Processing Integration Results

RT: 8.44

Response: 17330

Amount: 1

Conc: 54



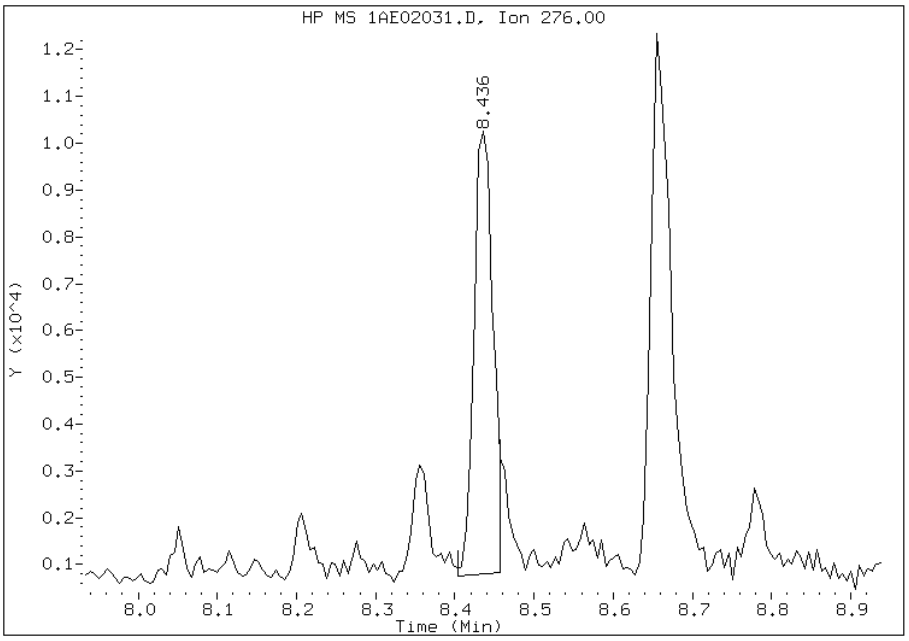
Manual Integration Results

RT: 8.44

Response: 15756

Amount: 1

Conc: 49



Manually Integrated By: cantins
Modification Date: 03-May-2013 12:06
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: CV1144C-CS | Lab Sample ID: 680-89791-35

Matrix: Solid | Lab File ID: 1AE02032.D

Analysis Method: 8270C LL | Date Collected: 04/25/2013 14:25

Extract. Method: 3546 | Date Extracted: 04/30/2013 14:42

Sample wt/vol: 15.12(g) | Date Analyzed: 05/02/2013 22:57

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137070 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	8.0	J	50	6.2
120-12-7	Anthracene	12		10	5.2
56-55-3	Benzo[a]anthracene	41		9.9	4.8
50-32-8	Benzo[a]pyrene	33		13	6.4
205-99-2	Benzo[b]fluoranthene	52		15	7.6
191-24-2	Benzo[g,h,i]perylene	23	J	25	5.4
207-08-9	Benzo[k]fluoranthene	25		9.9	4.5
218-01-9	Chrysene	44		11	5.6
53-70-3	Dibenz(a,h)anthracene	5.5	J	25	5.1
206-44-0	Fluoranthene	57		25	5.0
86-73-7	Fluorene	25	U	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	21	J	25	8.8
90-12-0	1-Methylnaphthalene	25	J	50	5.4
91-57-6	2-Methylnaphthalene	30	J	50	8.8
91-20-3	Naphthalene	34	J	50	5.4
85-01-8	Phenanthrene	52		9.9	4.8
129-00-0	Pyrene	45		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	41		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02032.D
Lab Smp Id: 680-89791-A-35-A Client Smp ID: CV1144C-CS
Inj Date : 02-MAY-2013 22:57
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89791-a-35-a
Misc Info : 680-89791-A-35-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\a-bFASTPAHi-m.m
Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 29
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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.120	Weight Extracted
M	19.865	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.559	2.550	(1.000)	1092598	40.0000	
* 6 Acenaphthene-d10	164	3.590	3.581	(1.000)	563794	40.0000	
* 10 Phenanthrene-d10	188	4.547	4.532	(1.000)	832847	40.0000	
$ 14 o-Terphenyl	230	4.840	4.831	(1.065)	55704	4.08915	337.4864
* 18 Chrysene-d12	240	6.571	6.551	(1.000)	819094	40.0000	
* 23 Perylene-d12	264	7.666	7.641	(1.000)	890052	40.0000	
2 Naphthalene	128	2.570	2.560	(1.004)	11183	0.40944	33.7922
3 2-Methylnaphthalene	141	2.976	2.972	(1.163)	5735	0.36624	30.2268
4 1-Methylnaphthalene	142	3.035	3.025	(1.186)	5294	0.30515	25.1846
5 Acenaphthylene	152	3.505	3.490	(0.976)	3207	0.09733	8.0328(Q)
11 Phenanthrene	178	4.557	4.548	(1.002)	15160	0.62837	51.8607
12 Anthracene	178	4.595	4.580	(1.011)	3567	0.14219	11.7354(Q)
13 Carbazole	167	4.734	4.713	(1.041)	3415	0.14112	11.6465
15 Fluoranthene	202	5.428	5.413	(1.194)	19173	0.68804	56.7857

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
16 Pyrene	202	5.594	5.579	(0.851)	16918	0.54139	44.6823
17 Benzo(a)anthracene	228	6.566	6.540	(0.999)	13365	0.49964	41.2364
19 Chrysene	228	6.587	6.572	(1.002)	14577	0.53715	44.3322
20 Benzo(b)fluoranthene	252	7.383	7.363	(0.963)	16976	0.62824	51.8501(M)
21 Benzo(k)fluoranthene	252	7.394	7.384	(0.964)	9566	0.30791	25.4122(M)
22 Benzo(a)pyrene	252	7.613	7.593	(0.993)	10803	0.40188	33.1677
24 Indeno(1,2,3-cd)pyrene	276	8.430	8.405	(1.100)	6501	0.25613	21.1390(M)
25 Dibenzo(a,h)anthracene	278	8.452	8.431	(1.102)	1568	0.06639	5.4797(Q)
26 Benzo(g,h,i)perylene	276	8.649	8.624	(1.128)	7863	0.27680	22.8448

QC Flag Legend

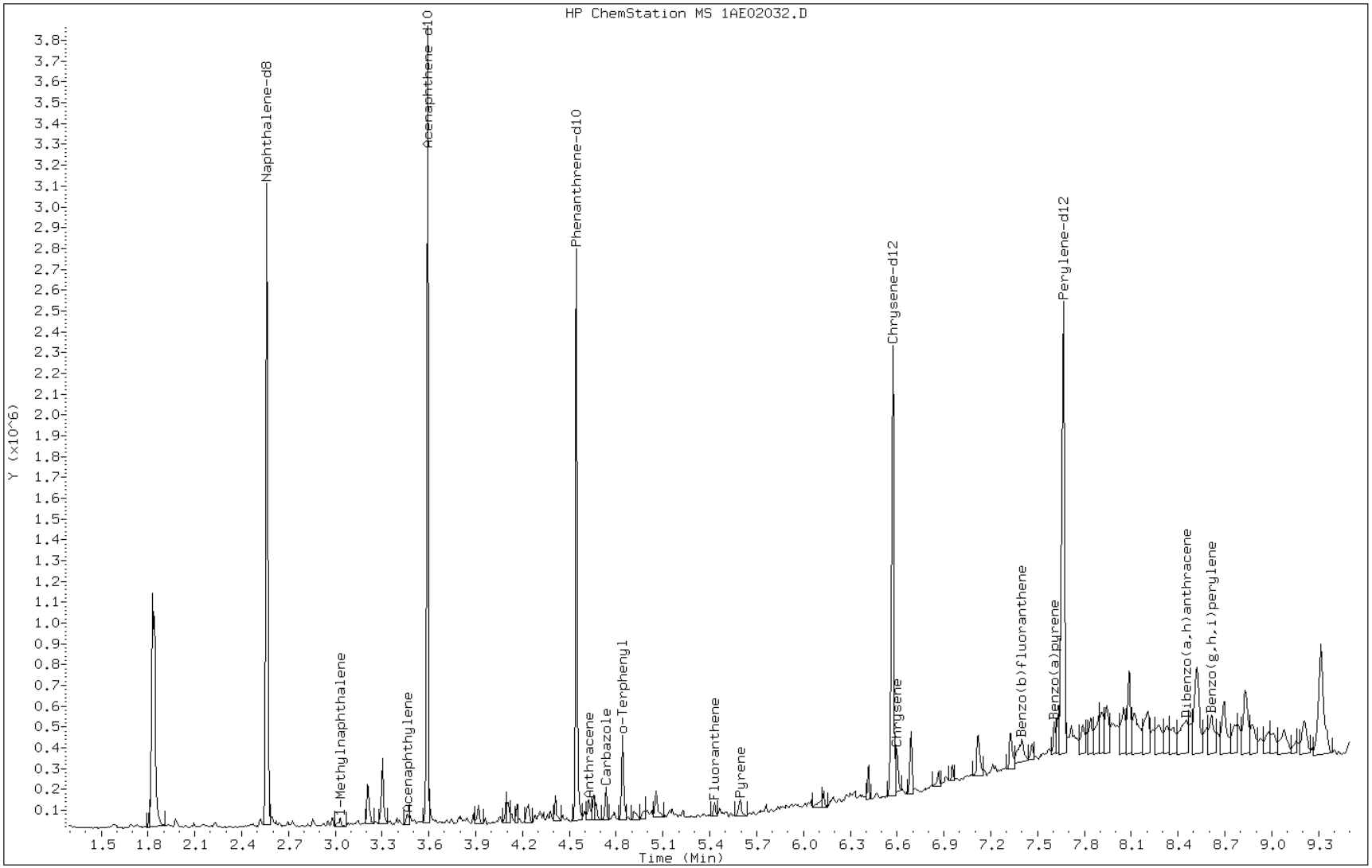
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE02032.D

Date: 02-MAY-2013 22:57

Client ID: CV1144C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-35-a Operator: SCC



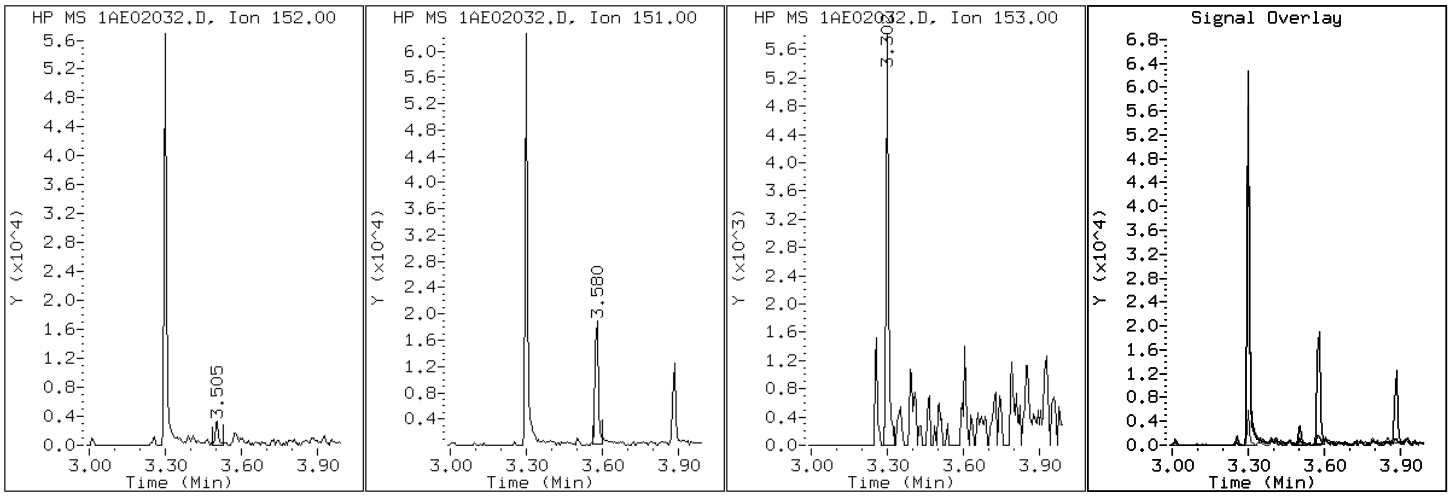
Data File: 1AE02032.D

Date: 02-MAY-2013 22:57

Client ID: CV1144C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-35-a Operator: SCC

5 Acenaphthylene



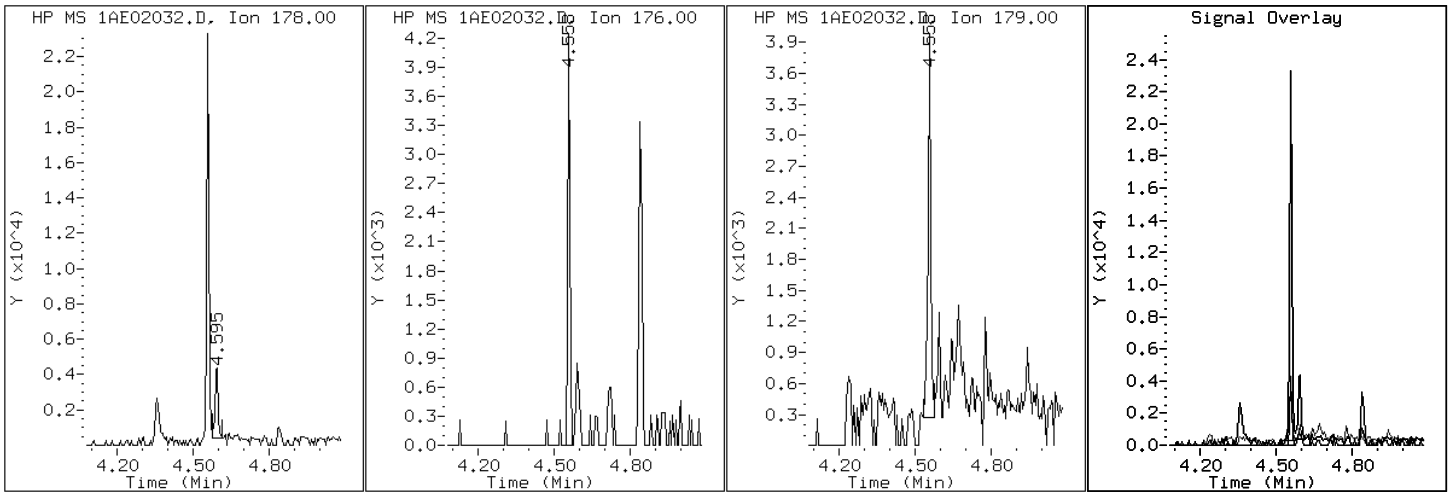
Data File: 1AE02032.D

Date: 02-MAY-2013 22:57

Client ID: CV1144C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-35-a Operator: SCC

12 Anthracene



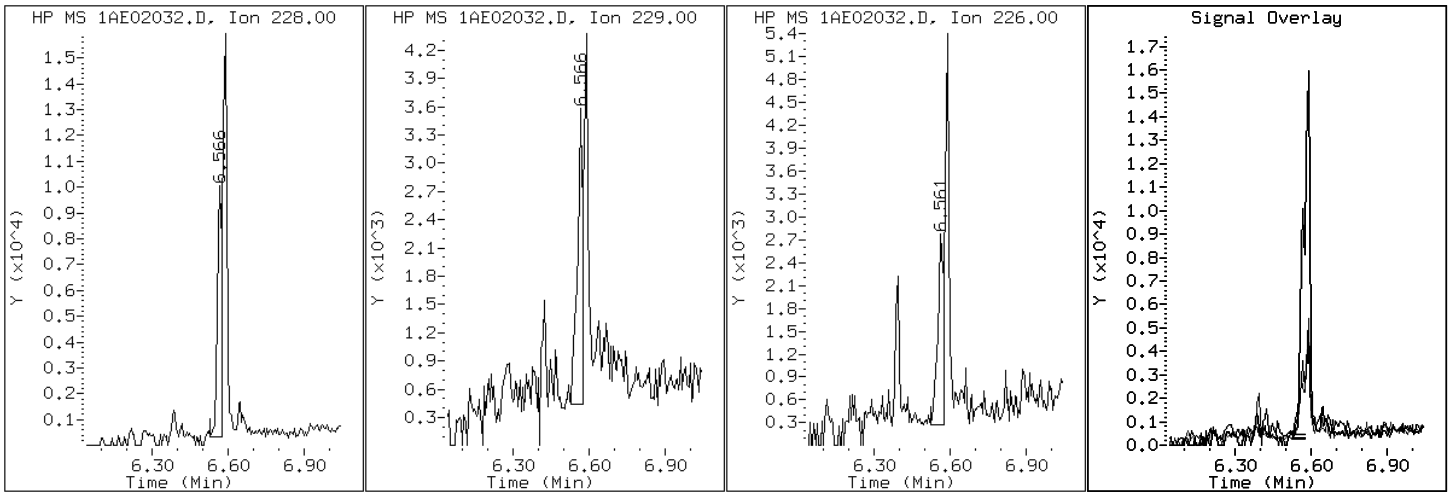
Data File: 1AE02032.D

Date: 02-MAY-2013 22:57

Client ID: CV1144C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-35-a Operator: SCC

17 Benzo(a)anthracene



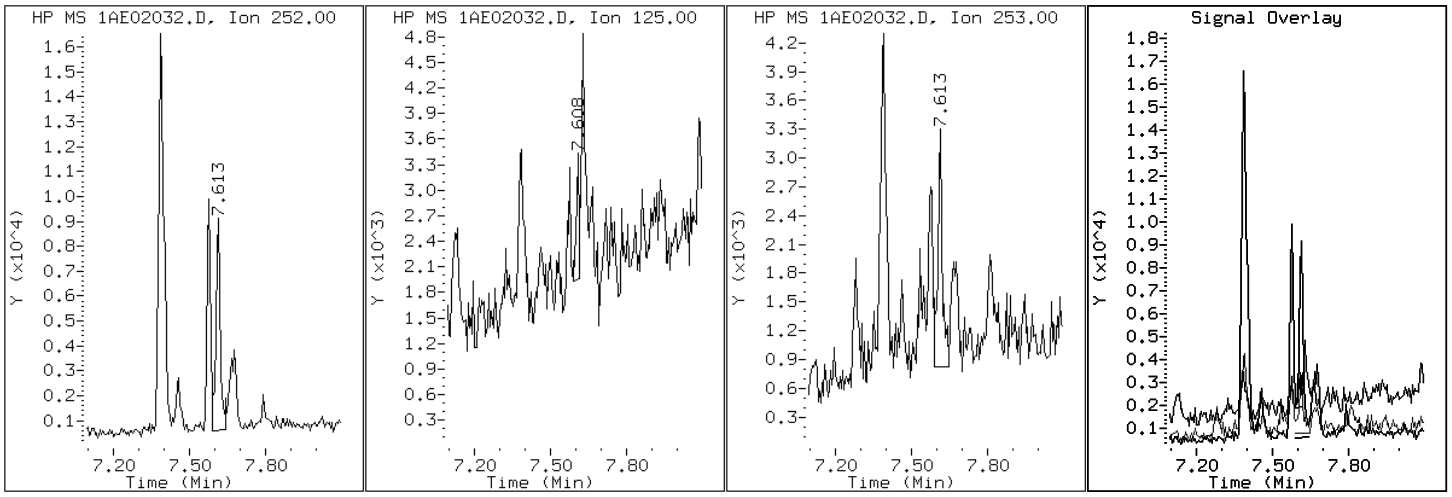
Data File: 1AE02032.D

Date: 02-MAY-2013 22:57

Client ID: CV1144C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-35-a Operator: SCC

22 Benzo(a)pyrene



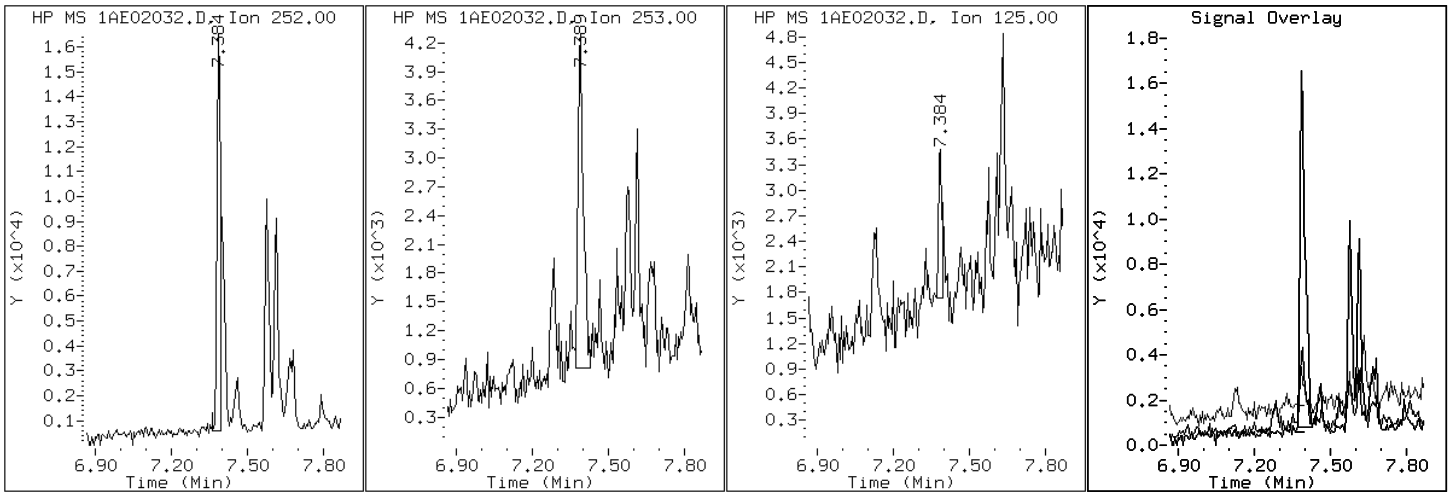
Data File: 1AE02032.D

Date: 02-MAY-2013 22:57

Client ID: CV1144C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-35-a Operator: SCC

20 Benzo(b)fluoranthene



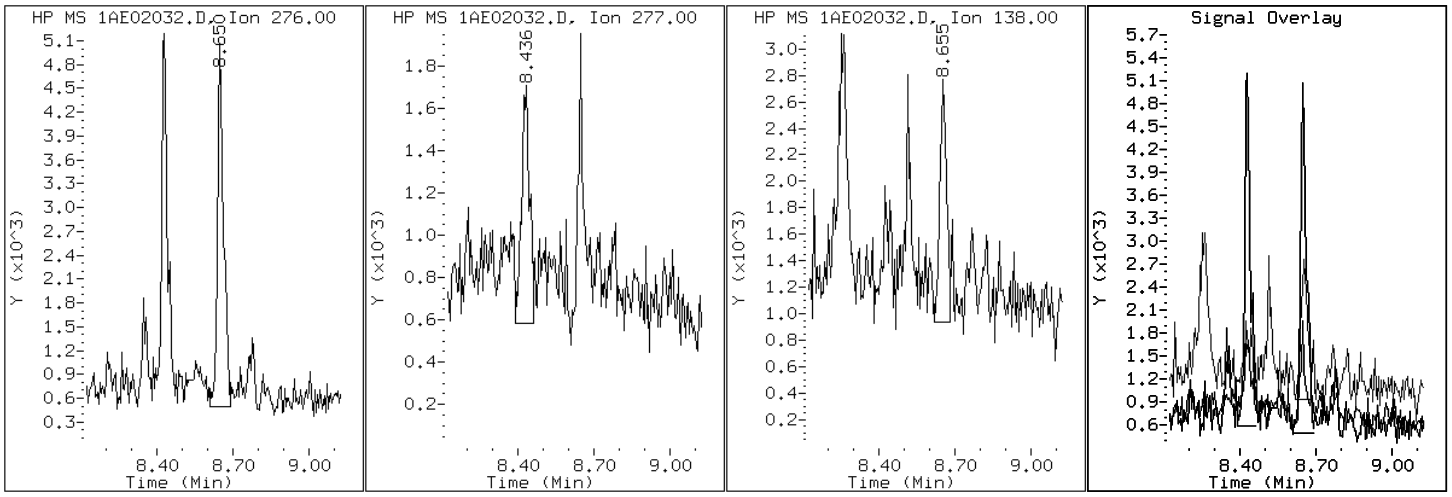
Data File: 1AE02032.D

Date: 02-MAY-2013 22:57

Client ID: CV1144C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-35-a Operator: SCC

26 Benzo(g,h,i)perylene



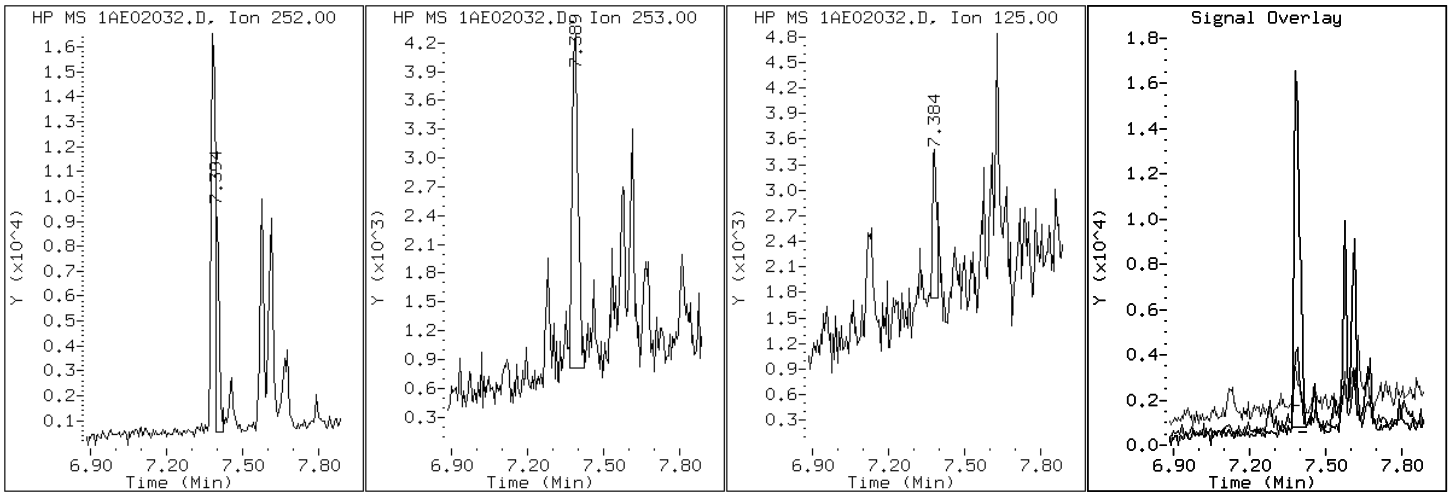
Data File: 1AE02032.D

Date: 02-MAY-2013 22:57

Client ID: CV1144C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-35-a Operator: SCC

21 Benzo(k)fluoranthene



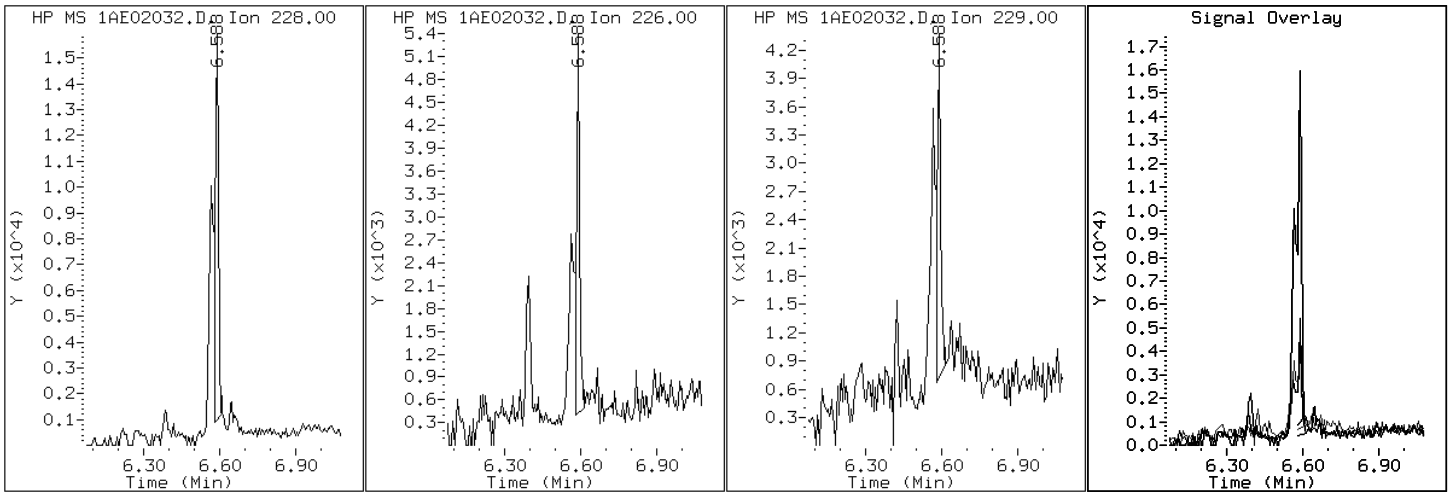
Data File: 1AE02032.D

Date: 02-MAY-2013 22:57

Client ID: CV1144C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-35-a Operator: SCC

19 Chrysene



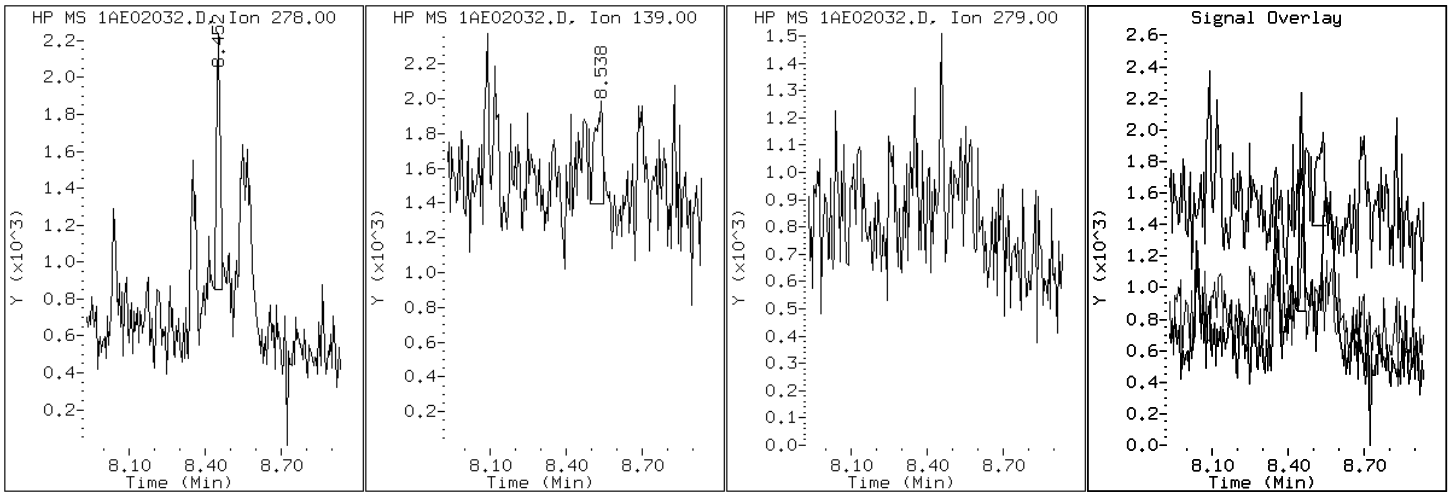
Data File: 1AE02032.D

Date: 02-MAY-2013 22:57

Client ID: CV1144C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-35-a Operator: SCC

25 Dibenzo(a,h)anthracene



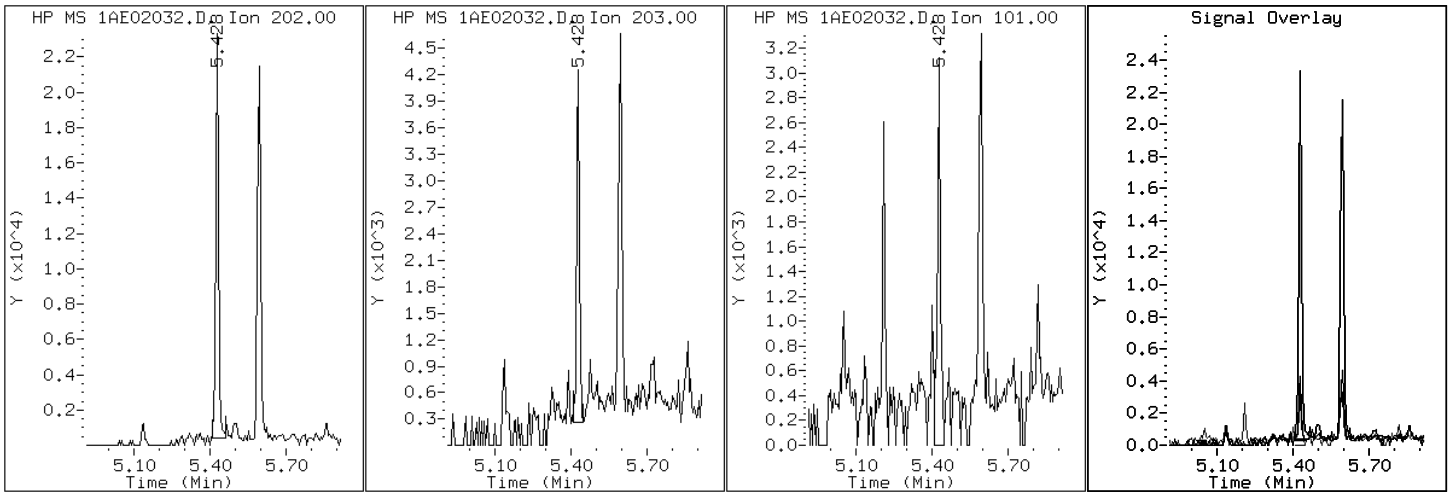
Data File: 1AE02032.D

Date: 02-MAY-2013 22:57

Client ID: CV1144C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-35-a Operator: SCC

15 Fluoranthene



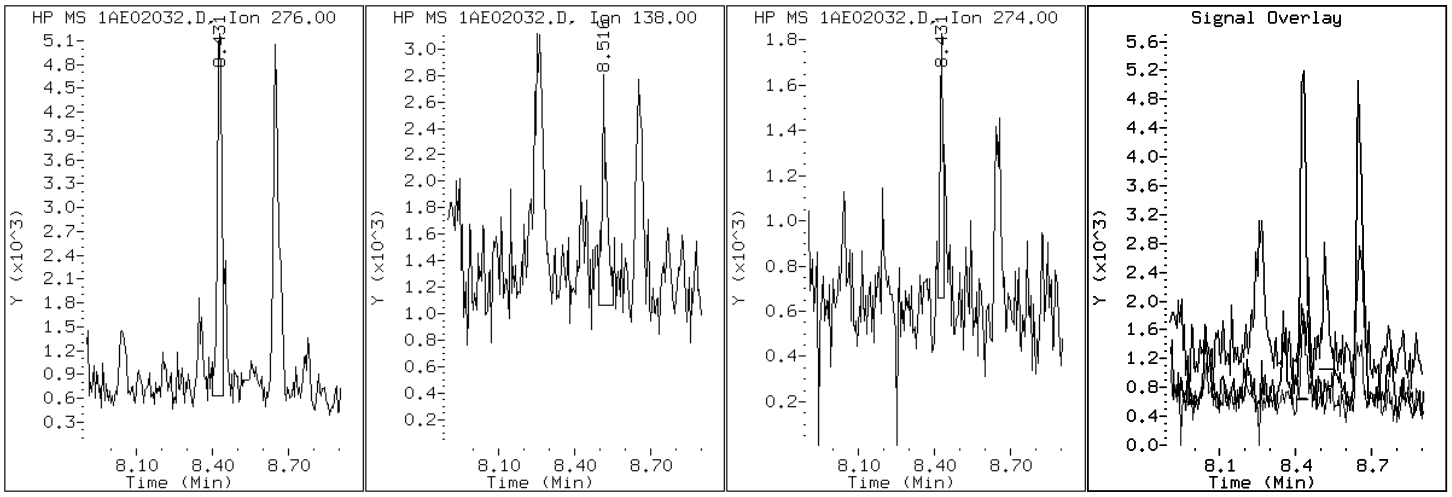
Data File: 1AE02032.D

Date: 02-MAY-2013 22:57

Client ID: CV1144C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-35-a Operator: SCC

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



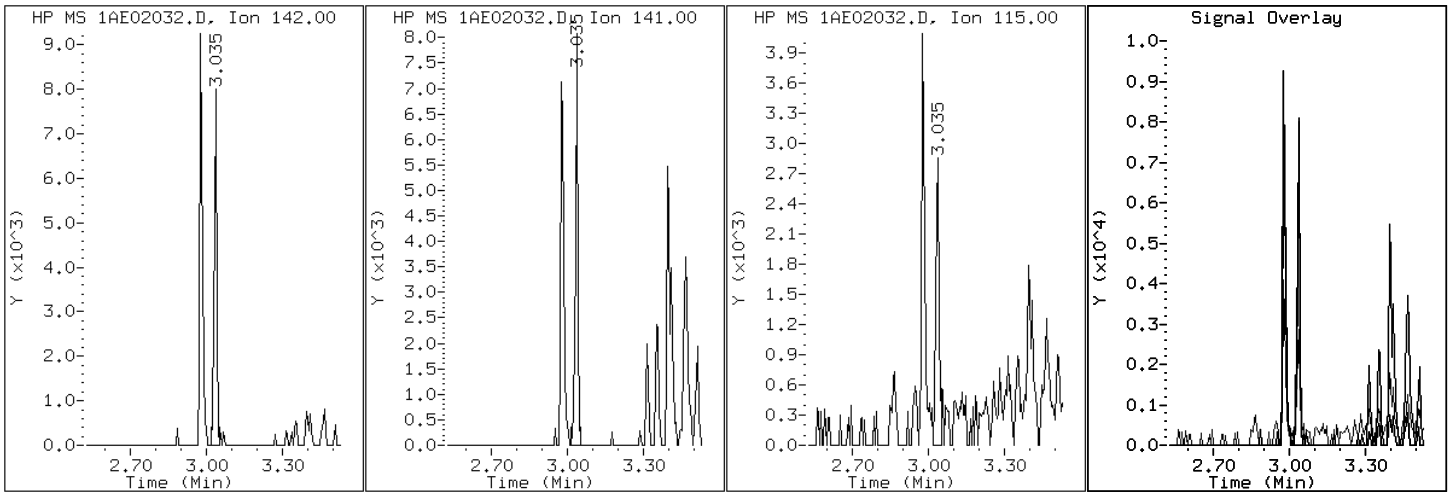
Data File: 1AE02032.D

Date: 02-MAY-2013 22:57

Client ID: CV1144C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-35-a Operator: SCC

4 1-Methylnaphthalene



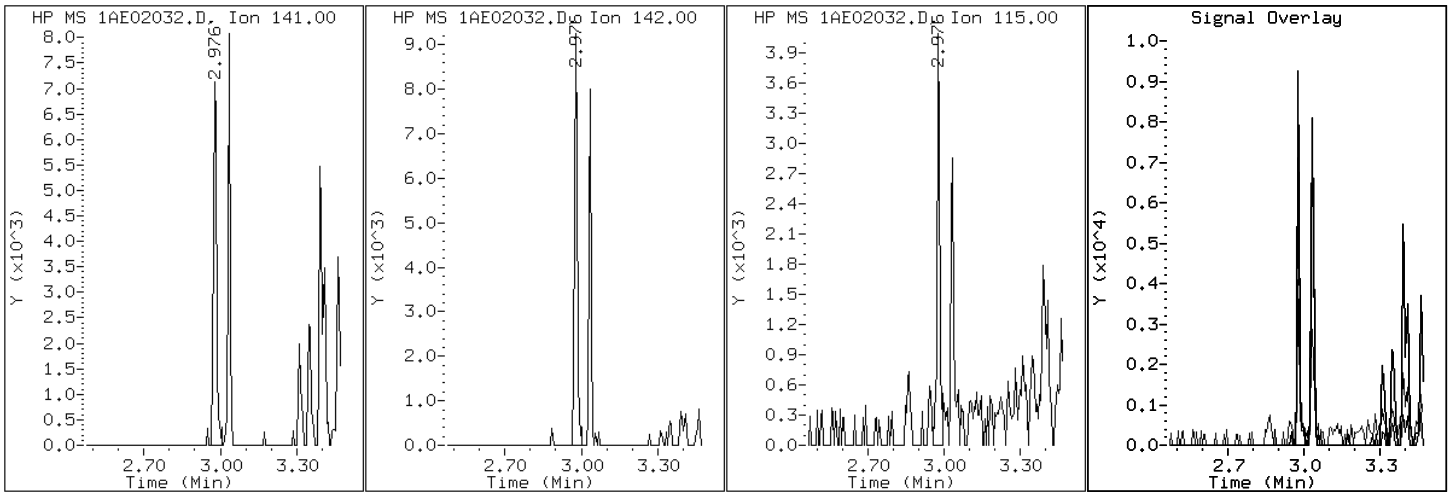
Data File: 1AE02032.D

Date: 02-MAY-2013 22:57

Client ID: CV1144C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-35-a Operator: SCC

3 2-Methylnaphthalene



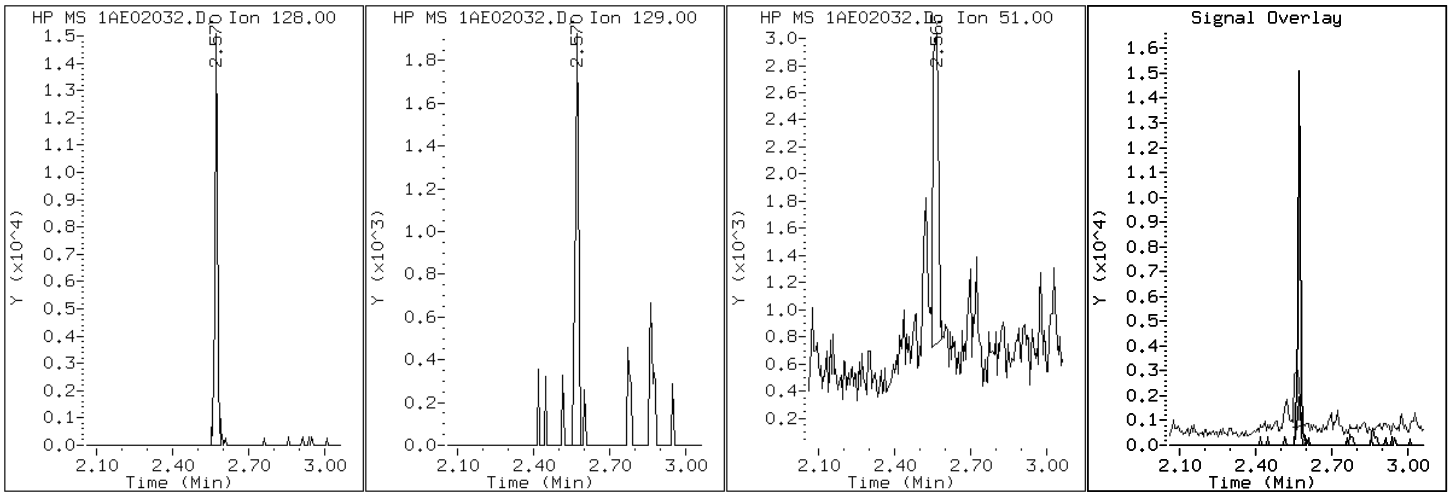
Data File: 1AE02032.D

Date: 02-MAY-2013 22:57

Client ID: CV1144C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-35-a Operator: SCC

2 Naphthalene



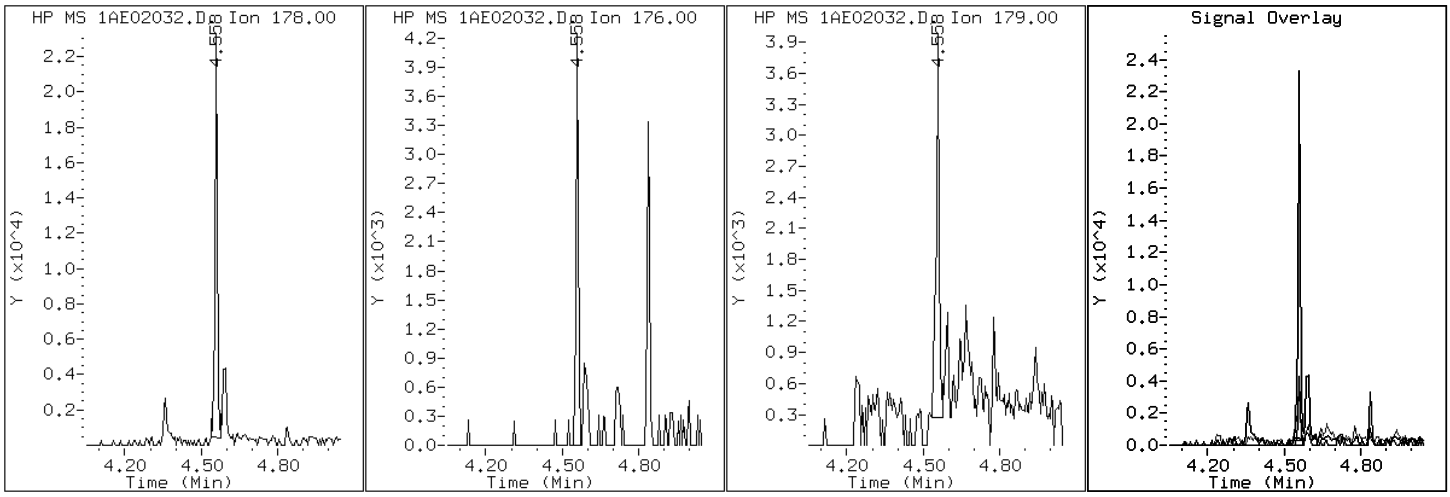
Data File: 1AE02032.D

Date: 02-MAY-2013 22:57

Client ID: CV1144C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-35-a Operator: SCC

11 Phenanthrene



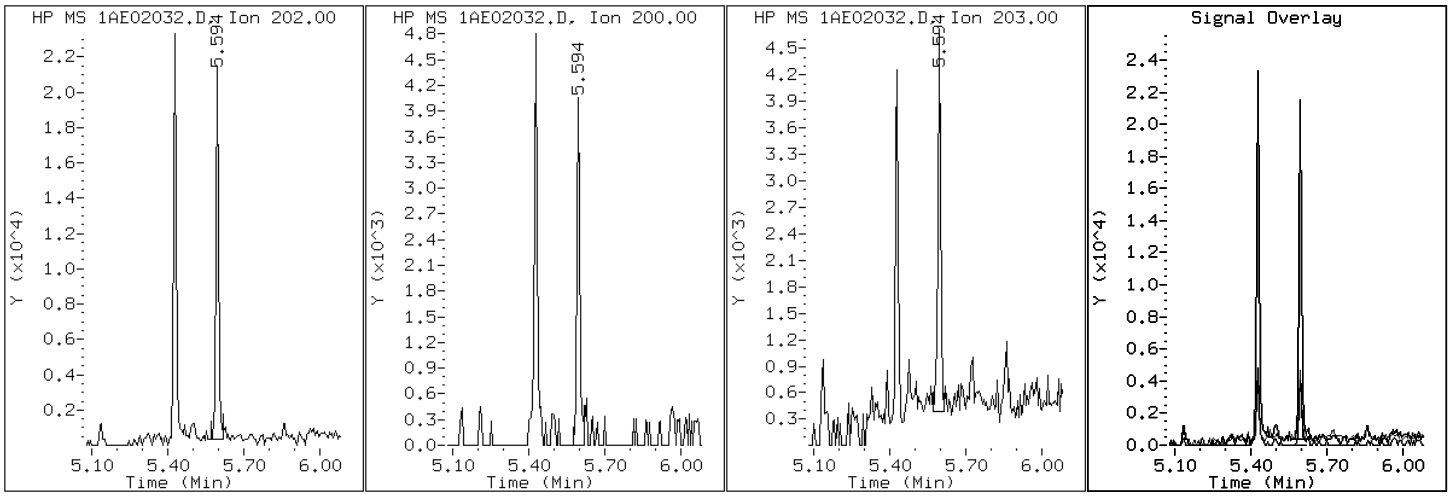
Data File: 1AE02032.D

Date: 02-MAY-2013 22:57

Client ID: CV1144C-CS Instrument: BSMA5973.i

Sample Info: 680-89791-a-35-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE02032.D
Inj. Date and Time: 02-MAY-2013 22:57
Instrument ID: BSMA5973.i
Client ID: CV1144C-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/03/2013

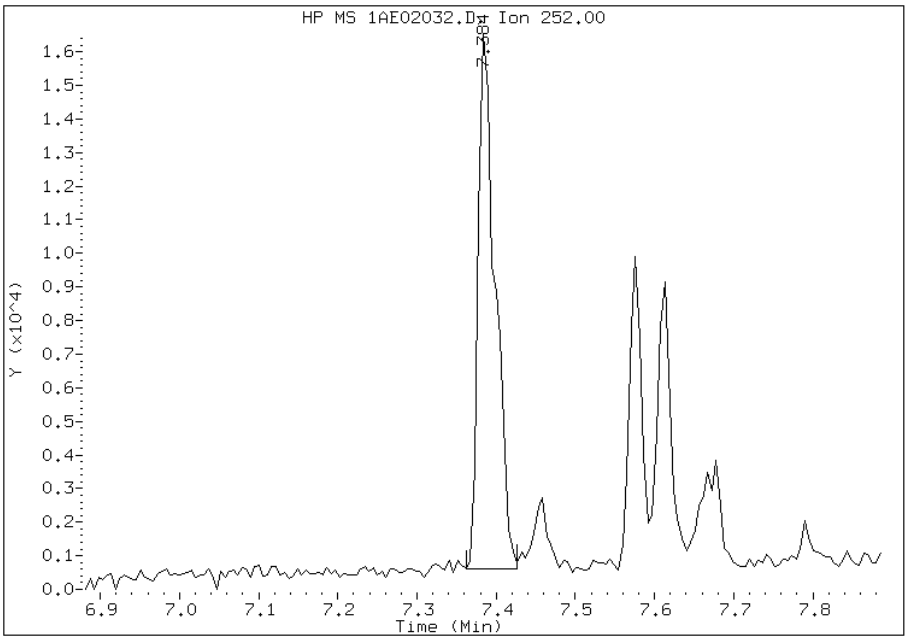
Processing Integration Results

RT: 7.38

Response: 23560

Amount: 1

Conc: 72



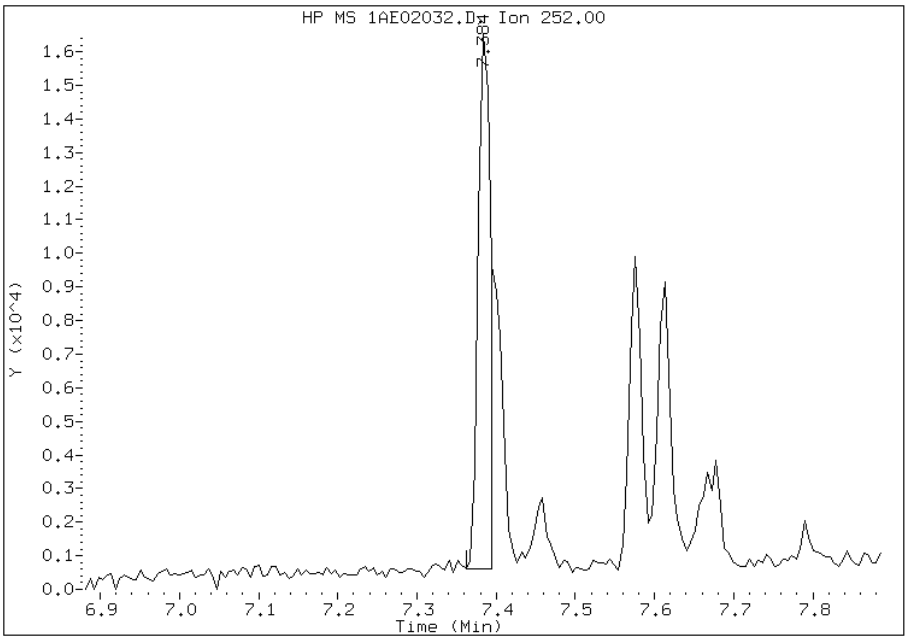
Manual Integration Results

RT: 7.38

Response: 16976

Amount: 1

Conc: 52



Manually Integrated By: cantins
Modification Date: 03-May-2013 12:07
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE02032.D
Inj. Date and Time: 02-MAY-2013 22:57
Instrument ID: BSMA5973.i
Client ID: CV1144C-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/03/2013

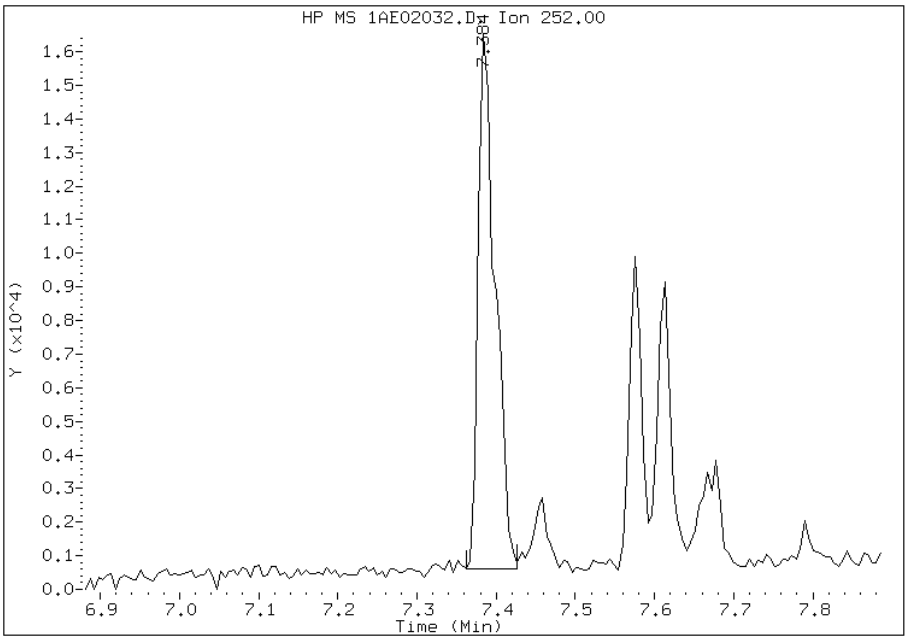
Processing Integration Results

RT: 7.38

Response: 23560

Amount: 1

Conc: 63



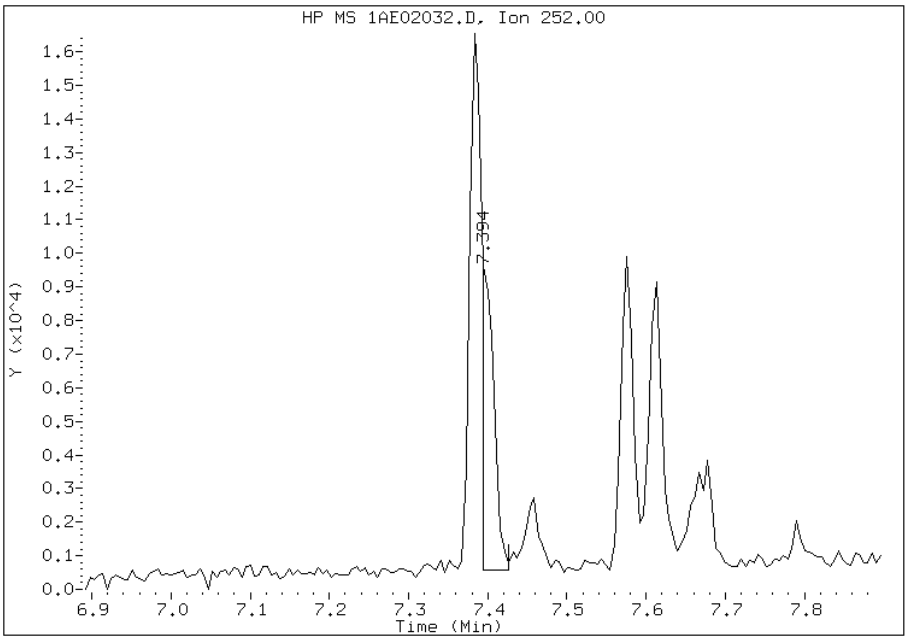
Manual Integration Results

RT: 7.39

Response: 9566

Amount: 0

Conc: 25



Manually Integrated By: cantins
Modification Date: 03-May-2013 12:07
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE02032.D
Inj. Date and Time: 02-MAY-2013 22:57
Instrument ID: BSMA5973.i
Client ID: CV1144C-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/03/2013

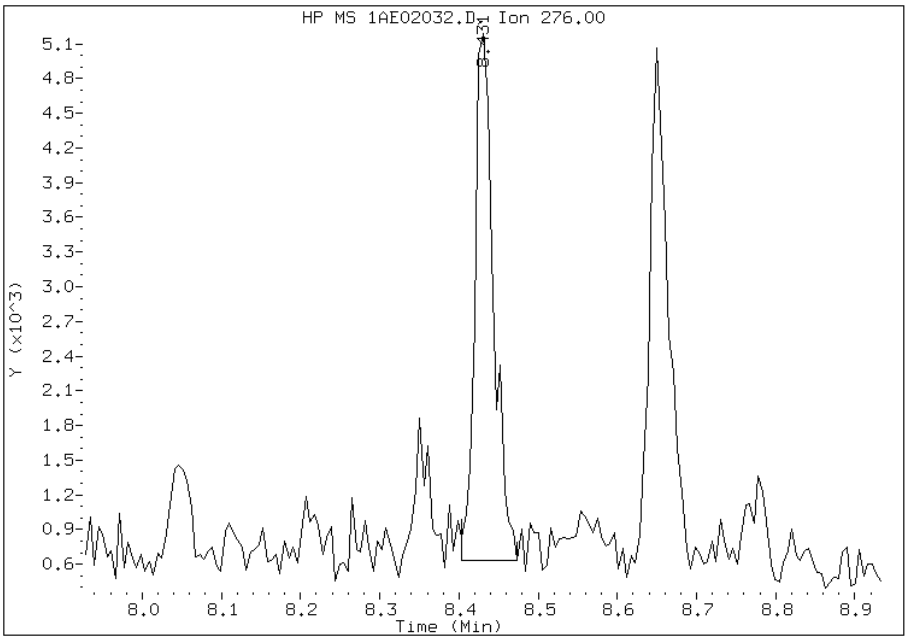
Processing Integration Results

RT: 8.43

Response: 7431

Amount: 0

Conc: 24



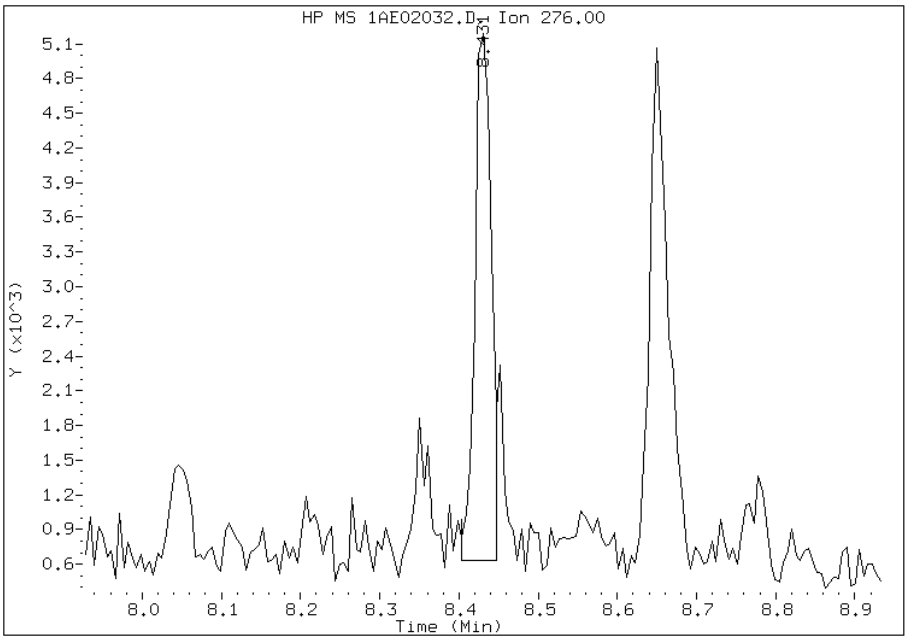
Manual Integration Results

RT: 8.43

Response: 6501

Amount: 0

Conc: 21



Manually Integrated By: cantins
Modification Date: 03-May-2013 12:07
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: CV1144C-CSD | Lab Sample ID: 680-89791-36

Matrix: Solid | Lab File ID: 1DE03007.D

Analysis Method: 8270C LL | Date Collected: 04/25/2013 14:25

Extract. Method: 3546 | Date Extracted: 05/02/2013 08:14

Sample wt/vol: 14.94(g) | Date Analyzed: 05/03/2013 12:13

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137126 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	50	U	50	6.2
120-12-7	Anthracene	11		10	5.2
56-55-3	Benzo[a]anthracene	45		10	4.9
50-32-8	Benzo[a]pyrene	39		13	6.5
205-99-2	Benzo[b]fluoranthene	63		15	7.6
191-24-2	Benzo[g,h,i]perylene	36		25	5.5
207-08-9	Benzo[k]fluoranthene	29		10	4.5
218-01-9	Chrysene	67		11	5.6
53-70-3	Dibenz(a,h)anthracene	10	J	25	5.1
206-44-0	Fluoranthene	72		25	5.0
86-73-7	Fluorene	25	U	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	22	J	25	8.9
90-12-0	1-Methylnaphthalene	40	J	50	5.5
91-57-6	2-Methylnaphthalene	39	J	50	8.9
91-20-3	Naphthalene	38	J	50	5.5
85-01-8	Phenanthrene	51		10	4.9
129-00-0	Pyrene	59		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	40		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D050313.b\1DE03007.D
Lab Smp Id: 680-89791-A-36-A Client Smp ID: CV1144C-CSD
Inj Date : 03-MAY-2013 12:13
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89791-a-36-a
Misc Info : 680-89791-A-36-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D050313.b\dFASTPAHi.m
Meth Date : 03-May-2013 10:55 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 8
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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	19.512	% 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	6.002	6.004	(1.000)	1838460	40.0000	
* 6	Acenaphthene-d10	164	7.688	7.690	(1.000)	1246399	40.0000	
* 9	Phenanthrene-d10	188	8.952	8.953	(1.000)	2081633	40.0000	
$ 13	o-Terphenyl	230	9.257	9.259	(1.034)	126732	4.04059	340
* 17	Chrysene-d12	240	11.255	11.257	(1.000)	2126657	40.0000	
* 22	Perylene-d12	264	13.070	13.066	(1.000)	2030881	40.0000	
2	Naphthalene	128	6.020	6.027	(1.003)	21046	0.46057	38(M)
3	2-Methylnaphthalene	142	6.731	6.738	(1.121)	13985	0.47410	39(M)
4	1-Methylnaphthalene	142	6.825	6.826	(1.137)	13445	0.48265	40(M)
5	Acenaphthylene	152	7.559	7.561	(0.983)	3437	0.06515	5.4
8	Fluorene	166	8.158	8.160	(1.061)	1290	0.03345	2.8(Q)
10	Phenanthrene	178	8.969	8.971	(1.002)	35017	0.61071	51
11	Anthracene	178	9.010	9.012	(1.007)	7493	0.13167	11
12	Carbazole	167	9.151	9.159	(1.022)	2950	0.05877	4.9

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/Kg)
14 Fluoranthene	202	9.951	9.958	(1.112)	51188	0.86754	72
15 Pyrene	202	10.139	10.146	(0.901)	45689	0.71542	59
16 Benzo(a)anthracene	228	11.237	11.239	(0.998)	33440	0.54386	45
18 Chrysene	228	11.278	11.280	(1.002)	46636	0.80892	67
19 Benzo(b)fluoranthene	252	12.524	12.526	(0.958)	38438	0.75767	63(M)
20 Benzo(k)fluoranthene	252	12.547	12.567	(0.960)	18620	0.34839	29(M)
21 Benzo(a)pyrene	252	12.970	12.978	(0.992)	23970	0.47024	39
23 Indeno(1,2,3-cd)pyrene	276	14.651	14.647	(1.121)	14202	0.26129	22(M)
24 Dibenzo(a,h)anthracene	278	14.663	14.670	(1.122)	6277	0.12264	10
25 Benzo(g,h,i)perylene	276	15.080	15.081	(1.154)	22543	0.43075	36(MH)

QC Flag Legend

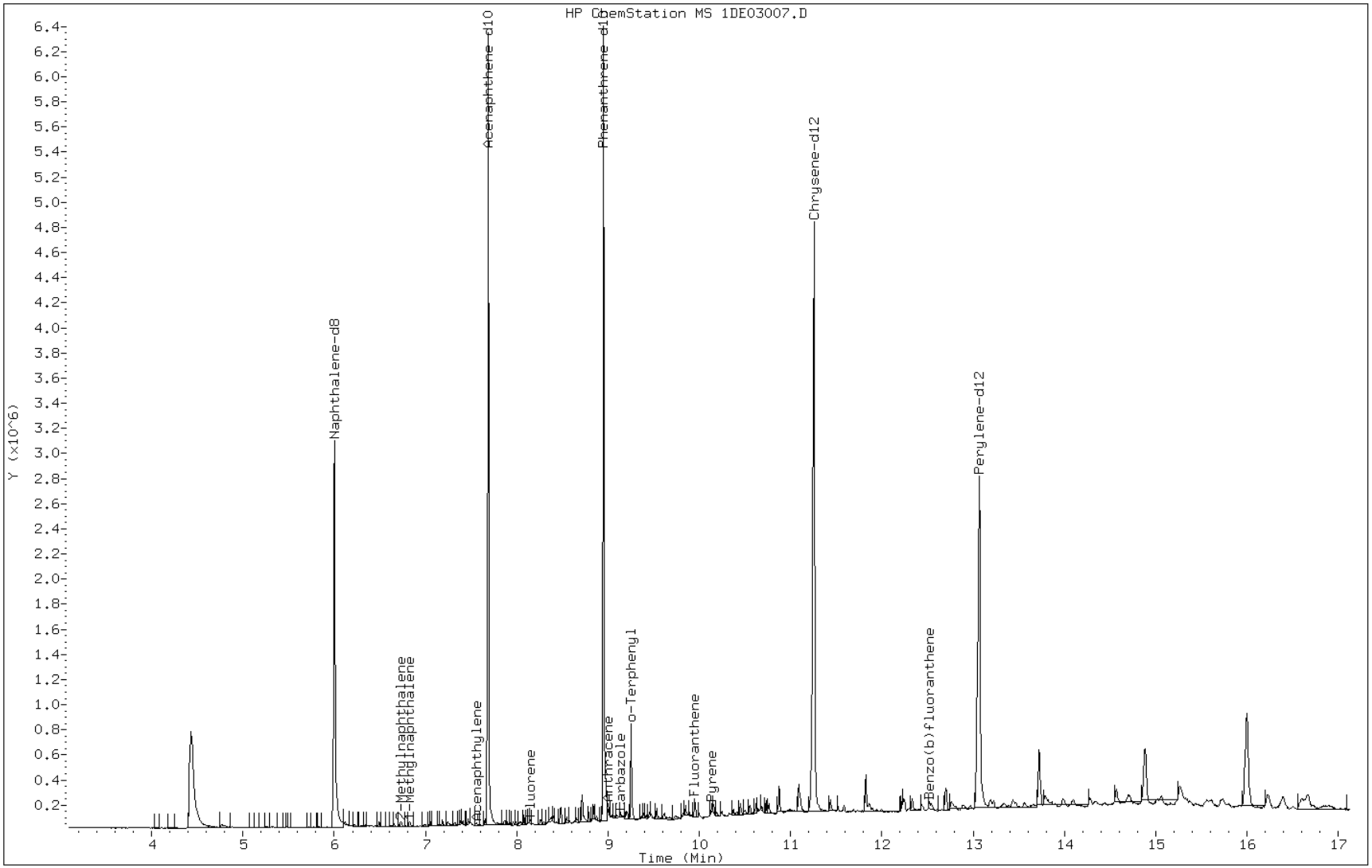
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DE03007.D

Date: 03-MAY-2013 12:13

Client ID: CV1144C-CSD Instrument: BSMSD.i

Sample Info: 680-89791-a-36-a Operator: SCC



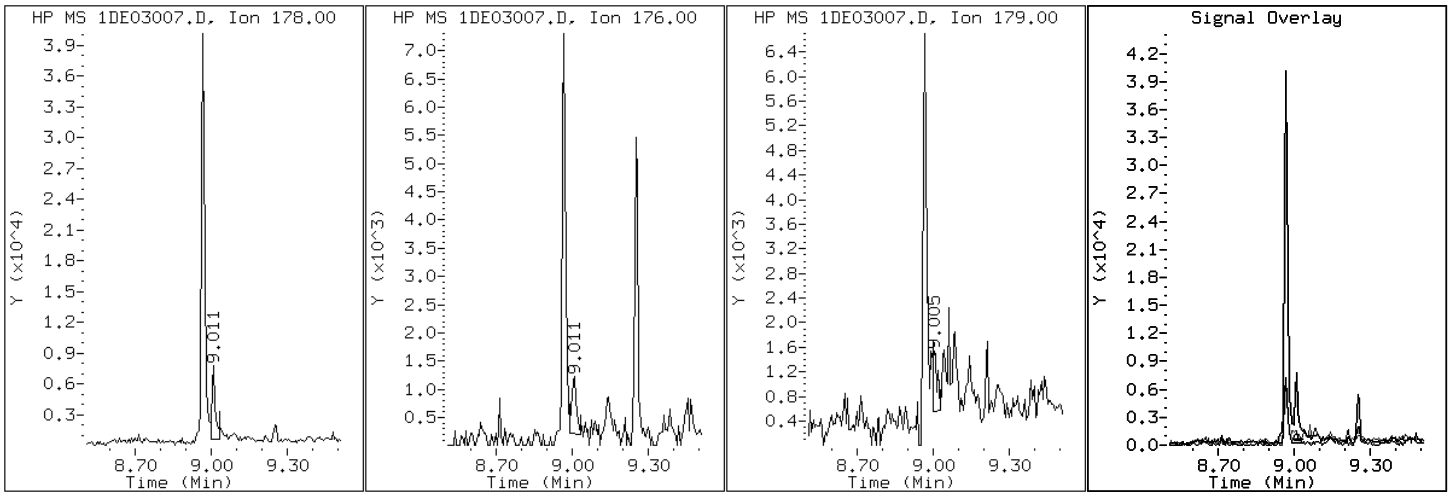
Data File: 1DE03007.D

Date: 03-MAY-2013 12:13

Client ID: CV1144C-CSD Instrument: BSMSD.i

Sample Info: 680-89791-a-36-a Operator: SCC

11 Anthracene



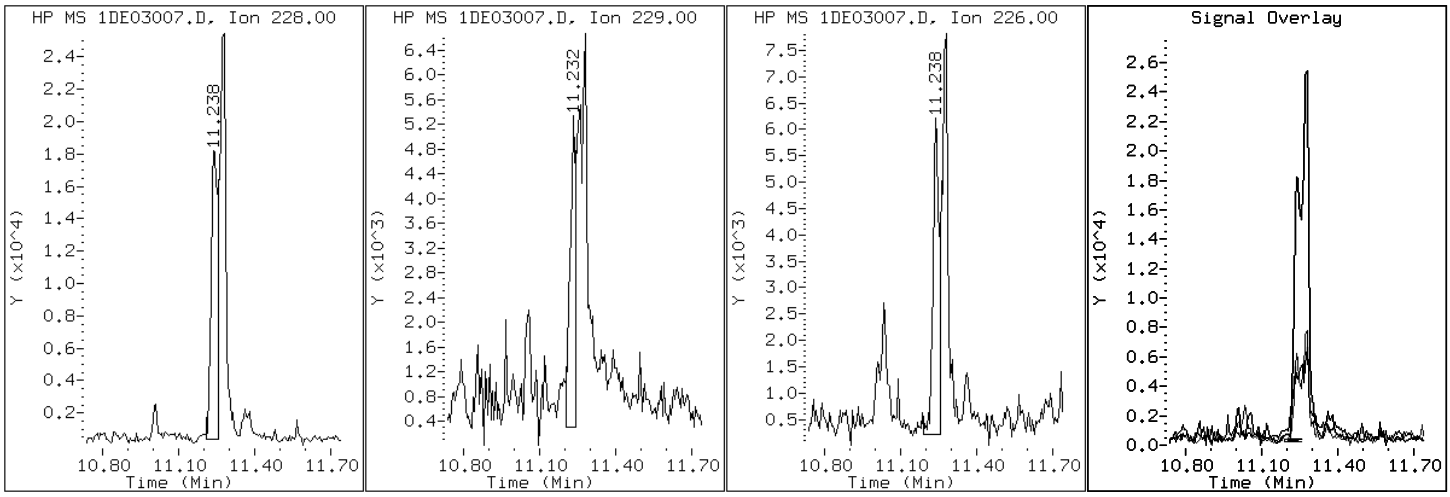
Data File: 1DE03007.D

Date: 03-MAY-2013 12:13

Client ID: CV1144C-CSD Instrument: BSMSD.i

Sample Info: 680-89791-a-36-a Operator: SCC

16 Benzo(a)anthracene



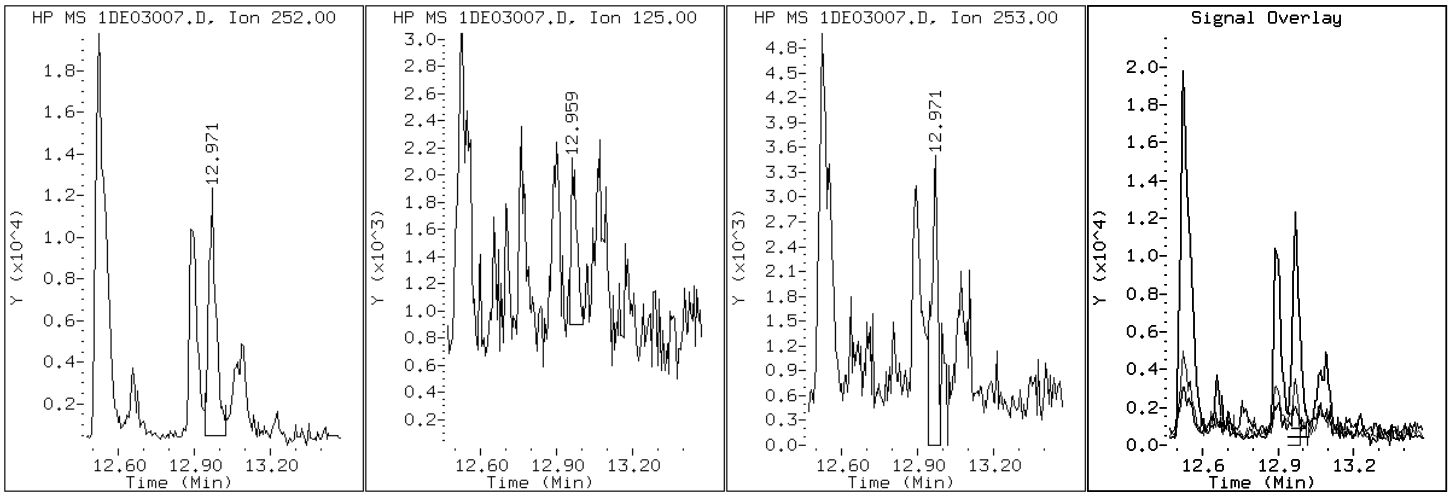
Data File: 1DE03007.D

Date: 03-MAY-2013 12:13

Client ID: CV1144C-CSD Instrument: BSMSD.i

Sample Info: 680-89791-a-36-a Operator: SCC

21 Benzo(a)pyrene



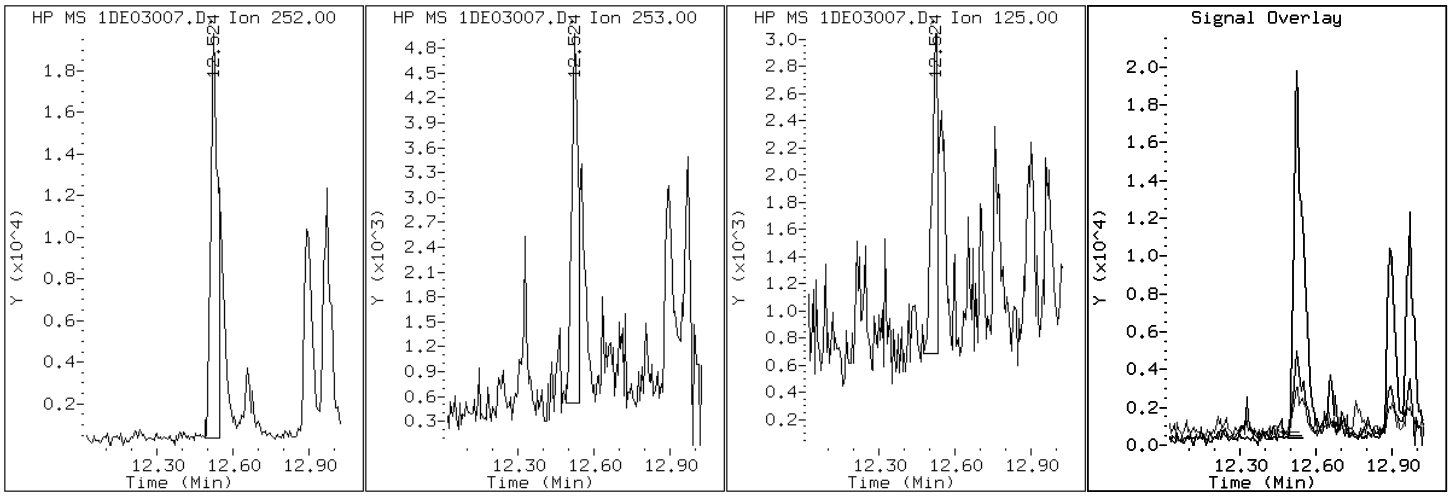
Data File: 1DE03007.D

Date: 03-MAY-2013 12:13

Client ID: CV1144C-CSD Instrument: BSMSD.i

Sample Info: 680-89791-a-36-a Operator: SCC

19 Benzo(b)fluoranthene



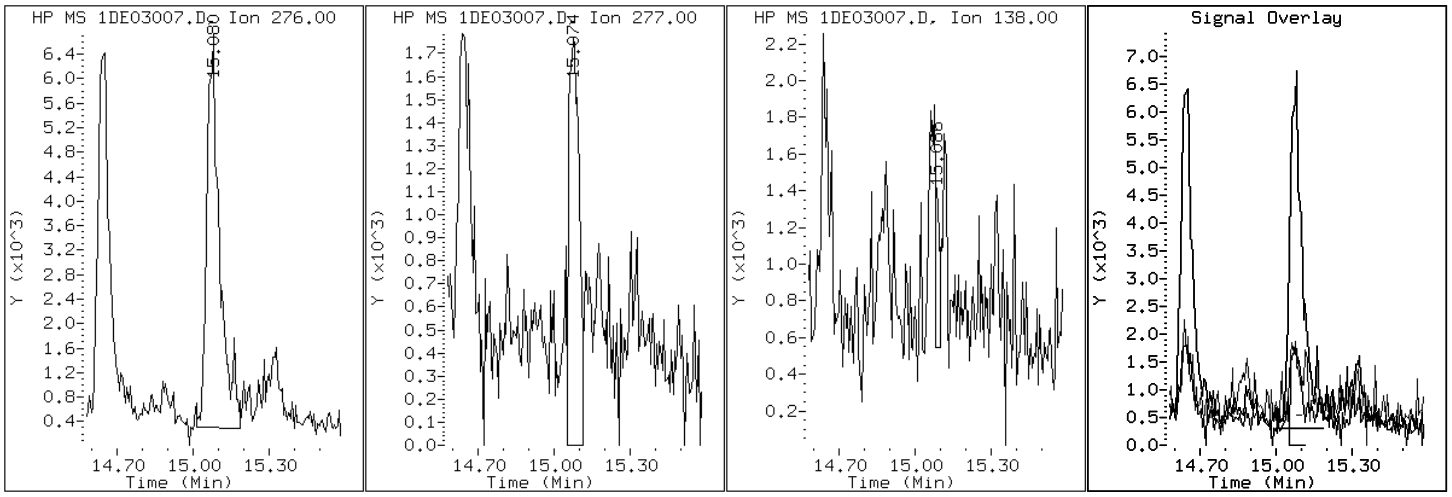
Data File: 1DE03007.D

Date: 03-MAY-2013 12:13

Client ID: CV1144C-CSD Instrument: BSMSD.i

Sample Info: 680-89791-a-36-a Operator: SCC

25 Benzo(g,h,i)perylene



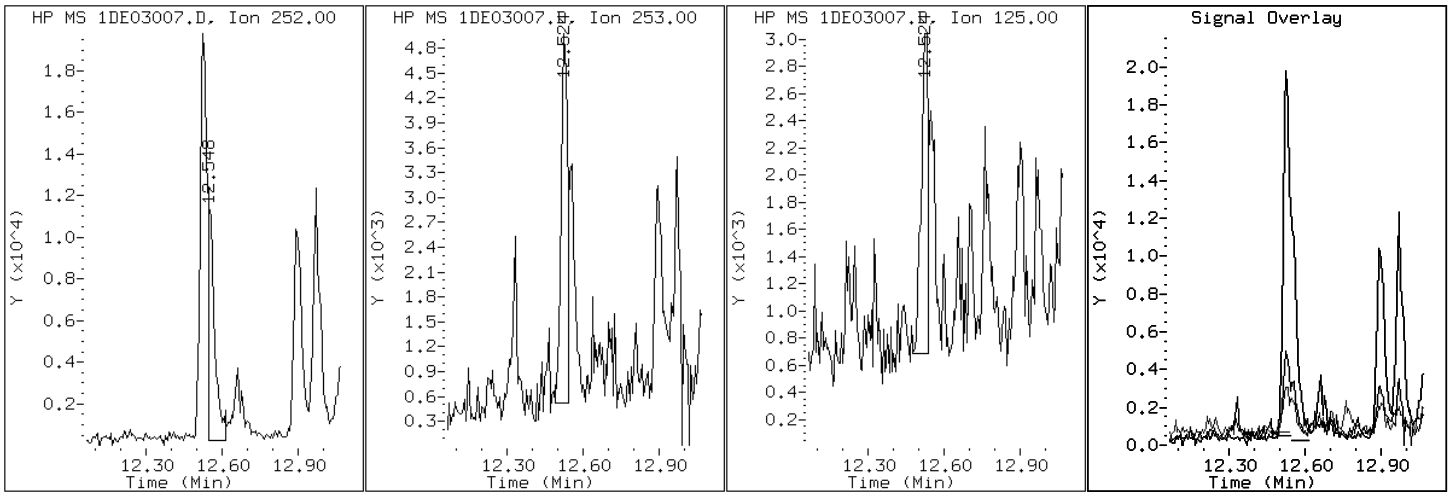
Data File: 1DE03007.D

Date: 03-MAY-2013 12:13

Client ID: CV1144C-CSD Instrument: BSMSD.i

Sample Info: 680-89791-a-36-a Operator: SCC

20 Benzo(k)fluoranthene



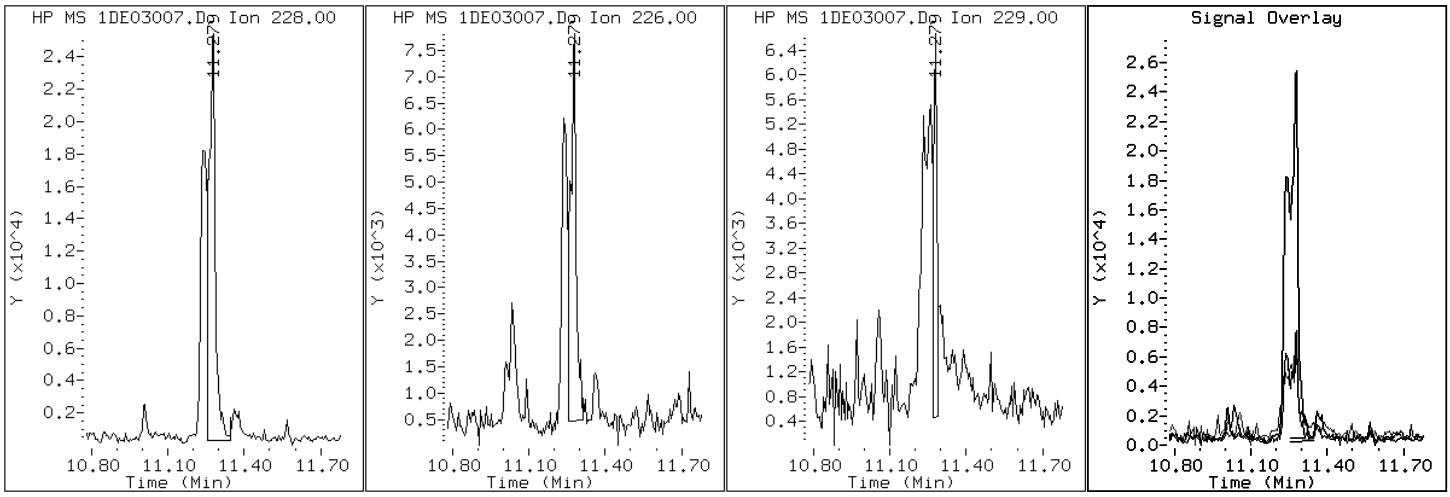
Data File: 1DE03007.D

Date: 03-MAY-2013 12:13

Client ID: CV1144C-CSD Instrument: BSMSD.i

Sample Info: 680-89791-a-36-a Operator: SCC

18 Chrysene



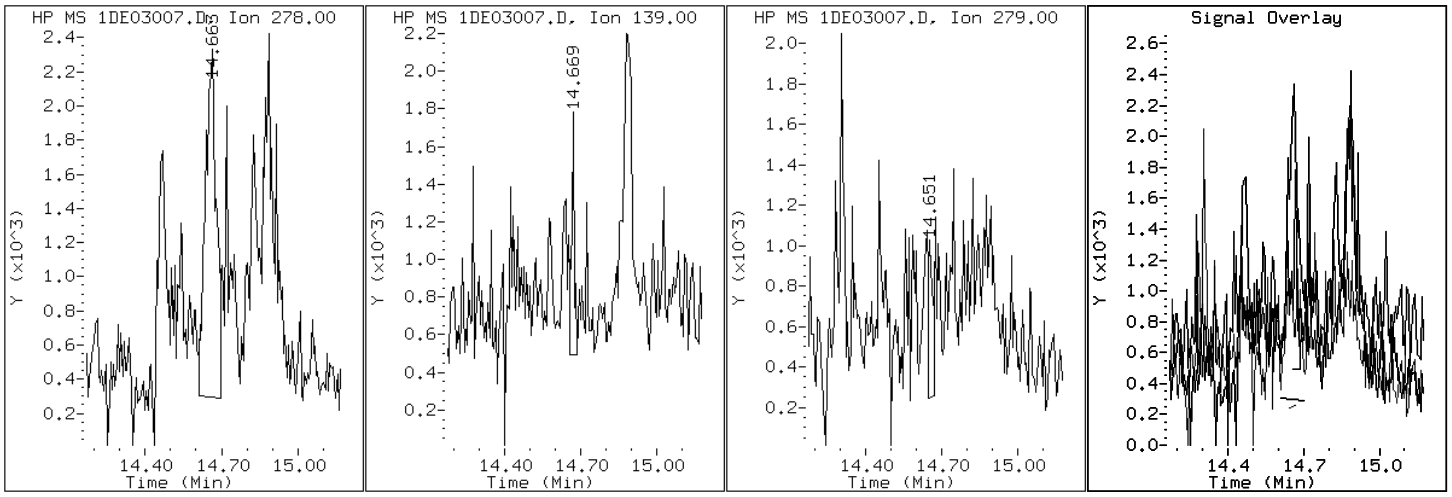
Data File: 1DE03007.D

Date: 03-MAY-2013 12:13

Client ID: CV1144C-CSD Instrument: BSMSD.i

Sample Info: 680-89791-a-36-a Operator: SCC

24 Dibenzo(a,h)anthracene



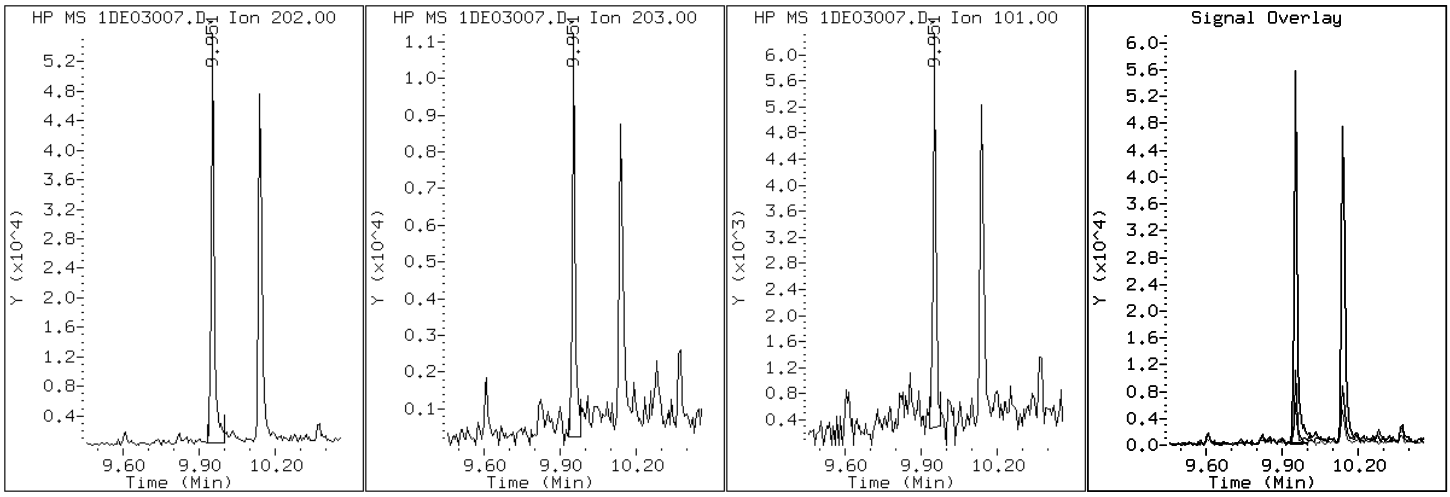
Data File: 1DE03007.D

Date: 03-MAY-2013 12:13

Client ID: CV1144C-CSD Instrument: BSMSD.i

Sample Info: 680-89791-a-36-a Operator: SCC

14 Fluoranthene



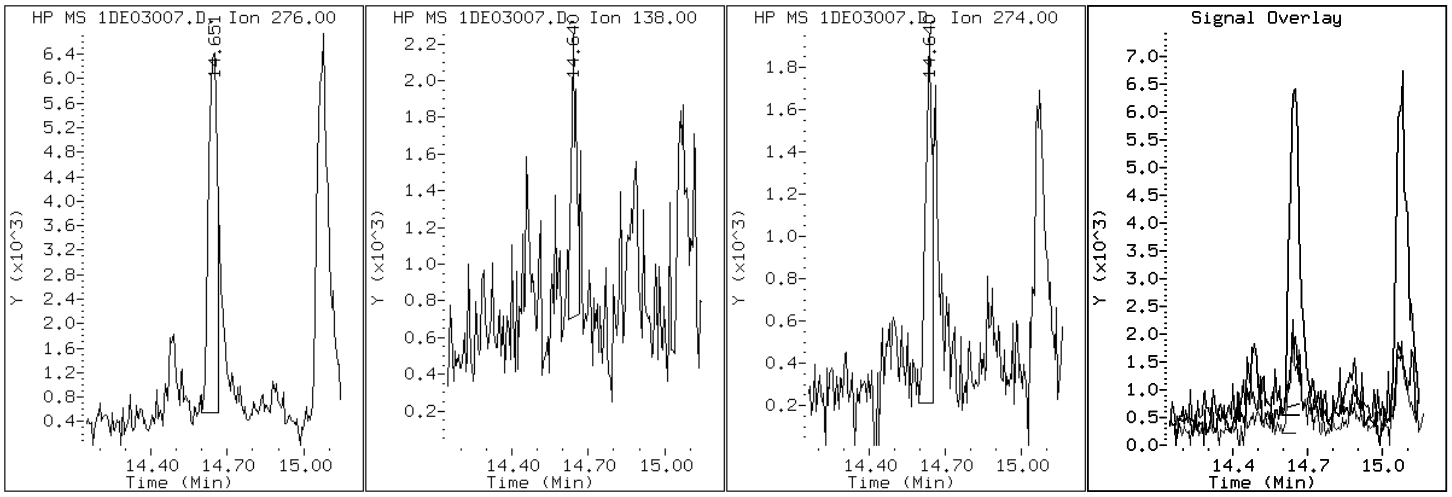
Data File: 1DE03007.D

Date: 03-MAY-2013 12:13

Client ID: CV1144C-CSD Instrument: BSMSD.i

Sample Info: 680-89791-a-36-a Operator: SCC

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



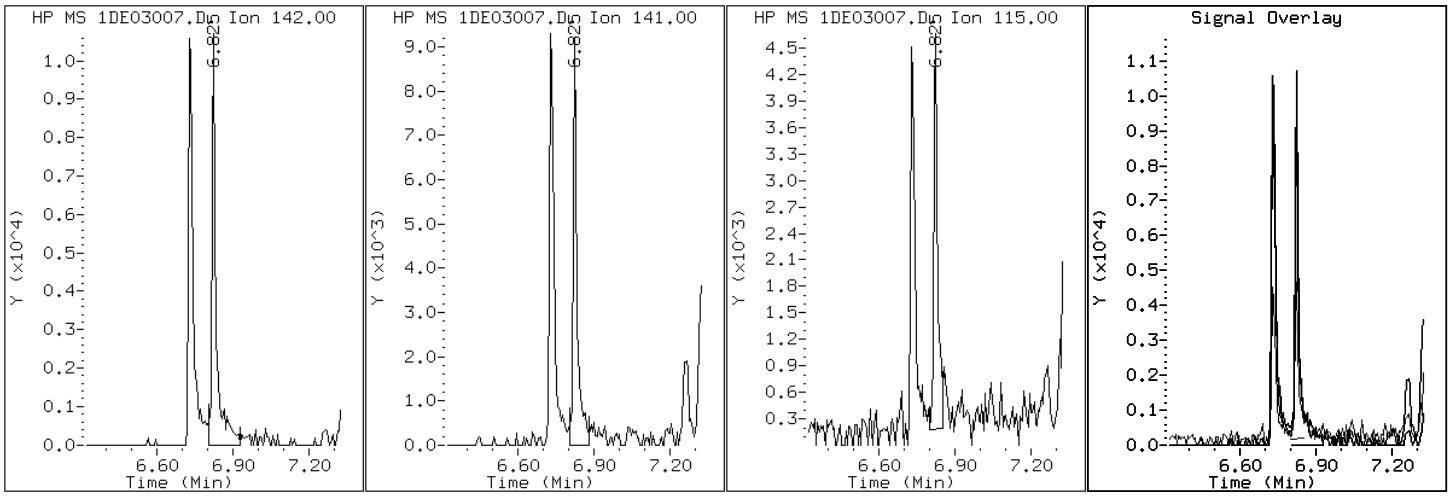
Data File: 1DE03007.D

Date: 03-MAY-2013 12:13

Client ID: CV1144C-CSD Instrument: BSMSD.i

Sample Info: 680-89791-a-36-a Operator: SCC

4 1-Methylnaphthalene



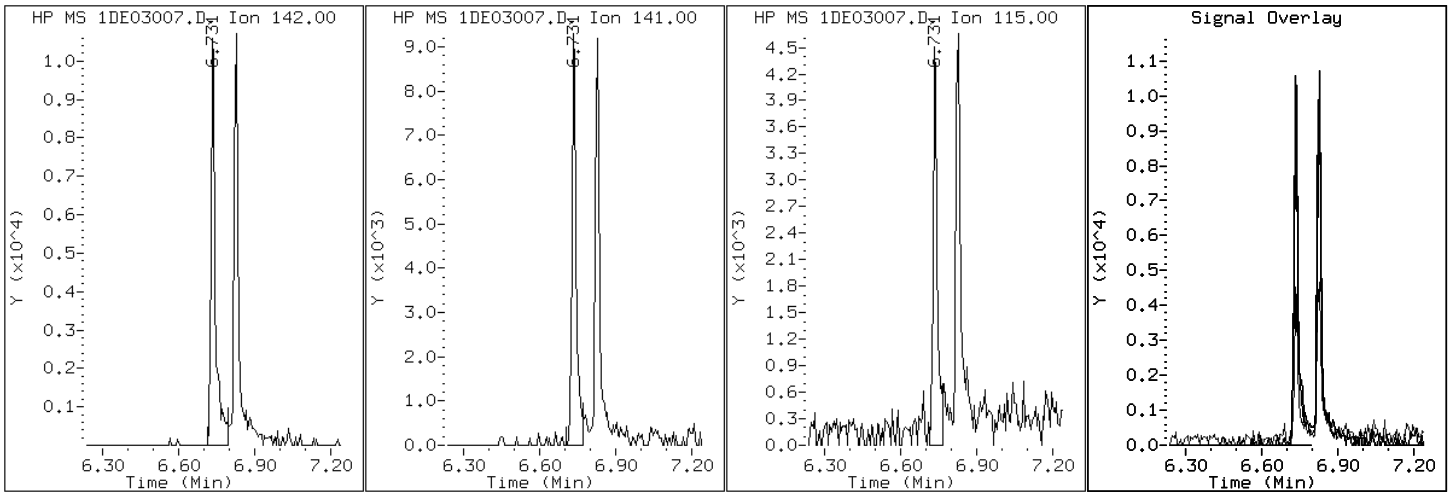
Data File: 1DE03007.D

Date: 03-MAY-2013 12:13

Client ID: CV1144C-CSD Instrument: BSMSD.i

Sample Info: 680-89791-a-36-a Operator: SCC

3 2-Methylnaphthalene



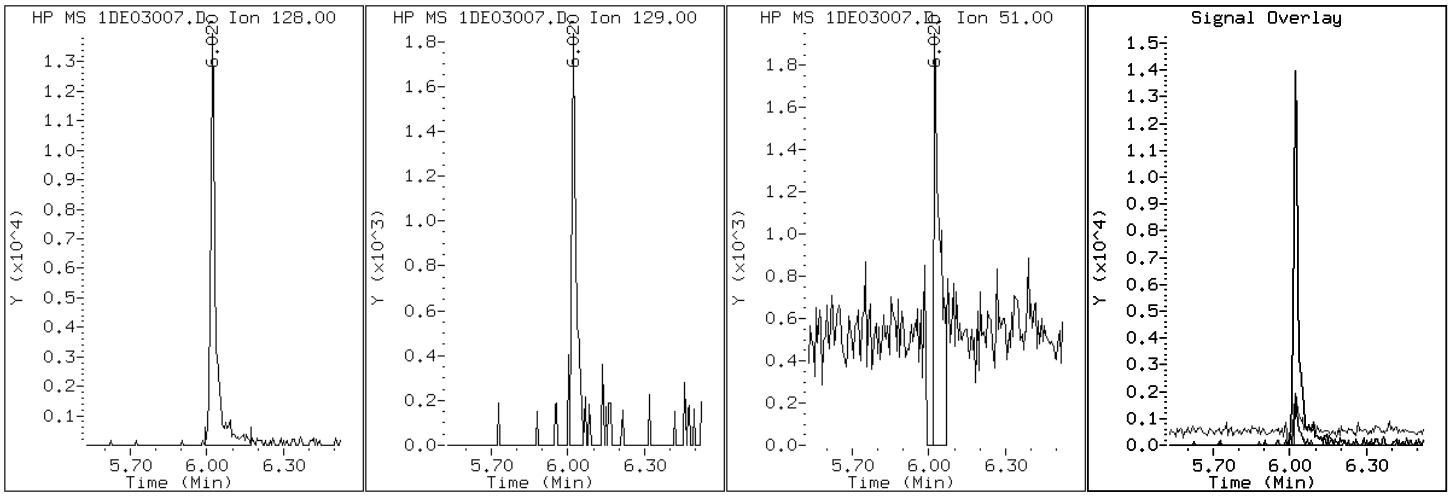
Data File: 1DE03007.D

Date: 03-MAY-2013 12:13

Client ID: CV1144C-CSD Instrument: BSMSD.i

Sample Info: 680-89791-a-36-a Operator: SCC

2 Naphthalene



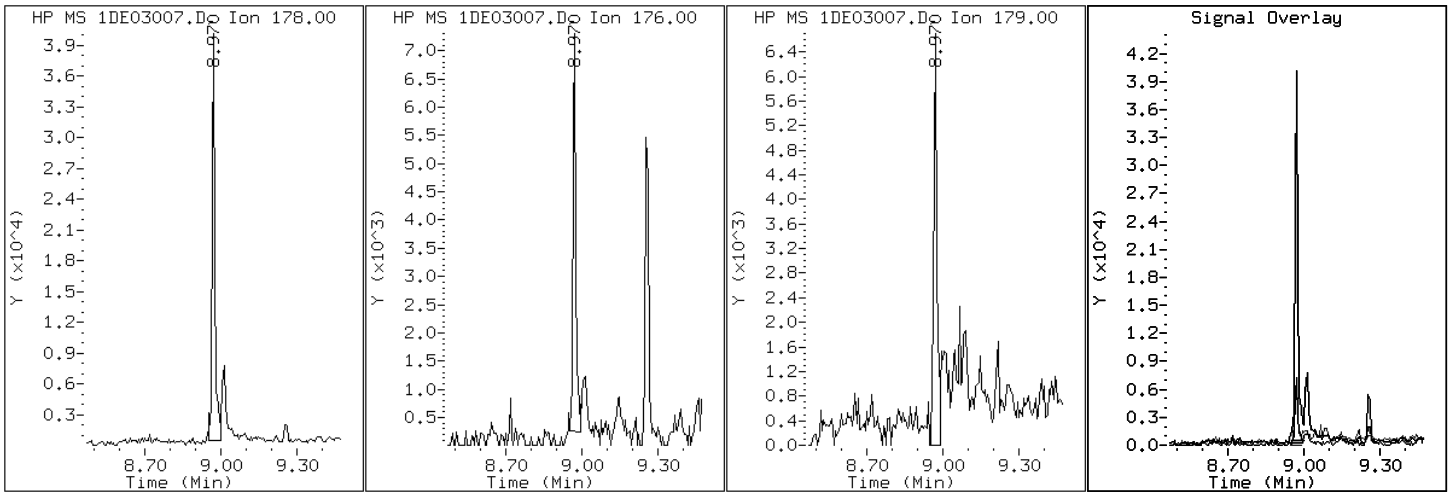
Data File: 1DE03007.D

Date: 03-MAY-2013 12:13

Client ID: CV1144C-CSD Instrument: BSMSD.i

Sample Info: 680-89791-a-36-a Operator: SCC

10 Phenanthrene



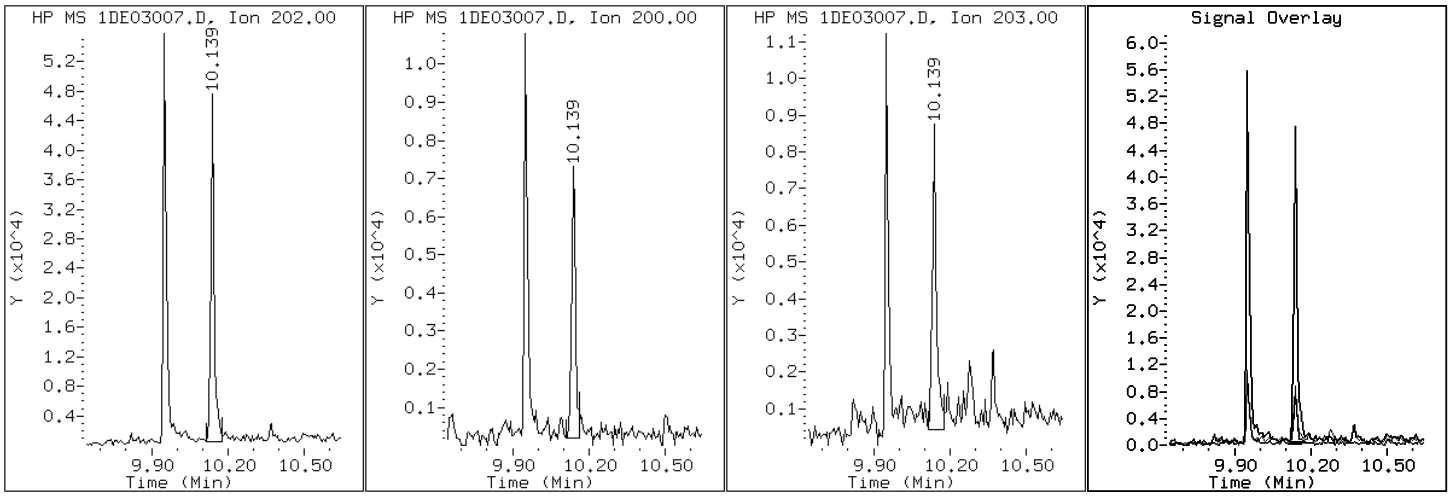
Data File: 1DE03007.D

Date: 03-MAY-2013 12:13

Client ID: CV1144C-CSD Instrument: BSMSD.i

Sample Info: 680-89791-a-36-a Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DE03007.D
Inj. Date and Time: 03-MAY-2013 12:13
Instrument ID: BSMSD.i
Client ID: CV1144C-CSD
Compound: 19 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/06/2013

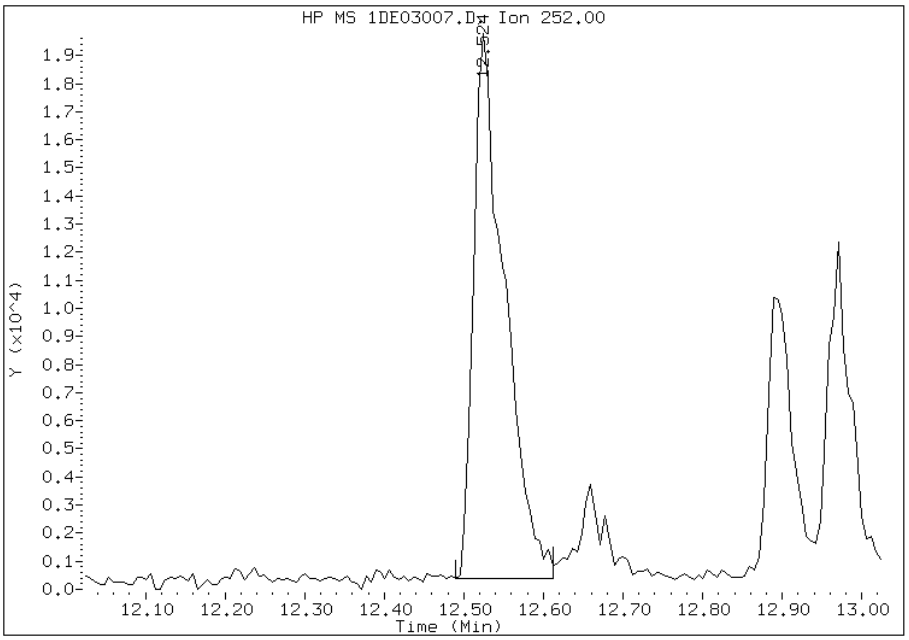
Processing Integration Results

RT: 12.52

Response: 52526

Amount: 1

Conc: 86



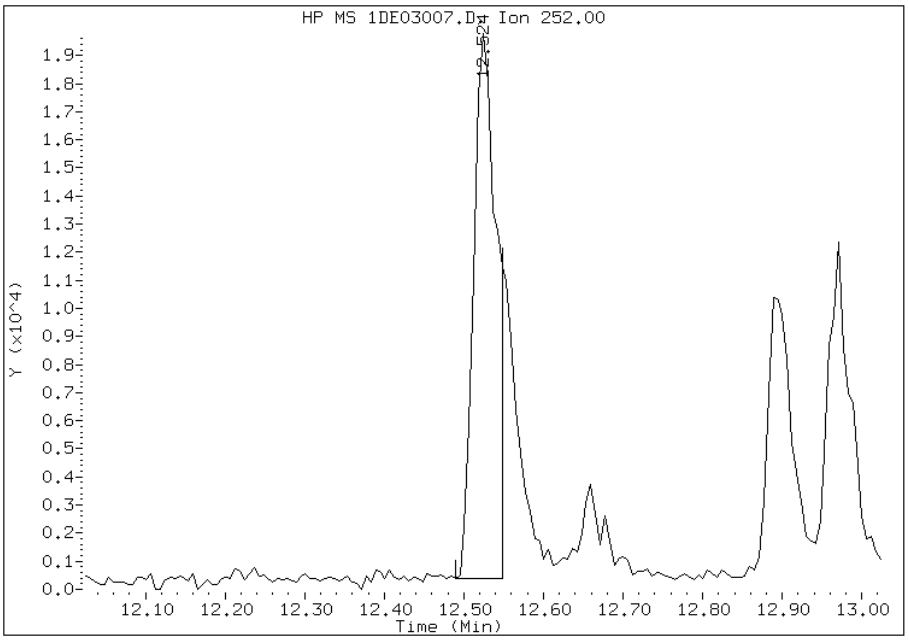
Manual Integration Results

RT: 12.52

Response: 38438

Amount: 1

Conc: 63



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:16
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DE03007.D
Inj. Date and Time: 03-MAY-2013 12:13
Instrument ID: BSMSD.i
Client ID: CV1144C-CSD
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/06/2013

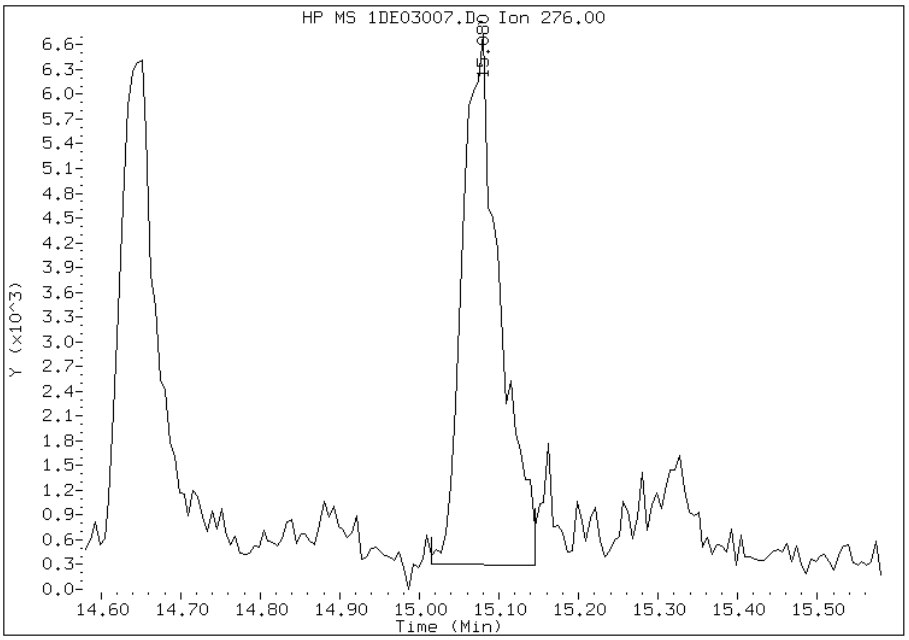
Processing Integration Results

RT: 15.08

Response: 21036

Amount: 0

Conc: 33



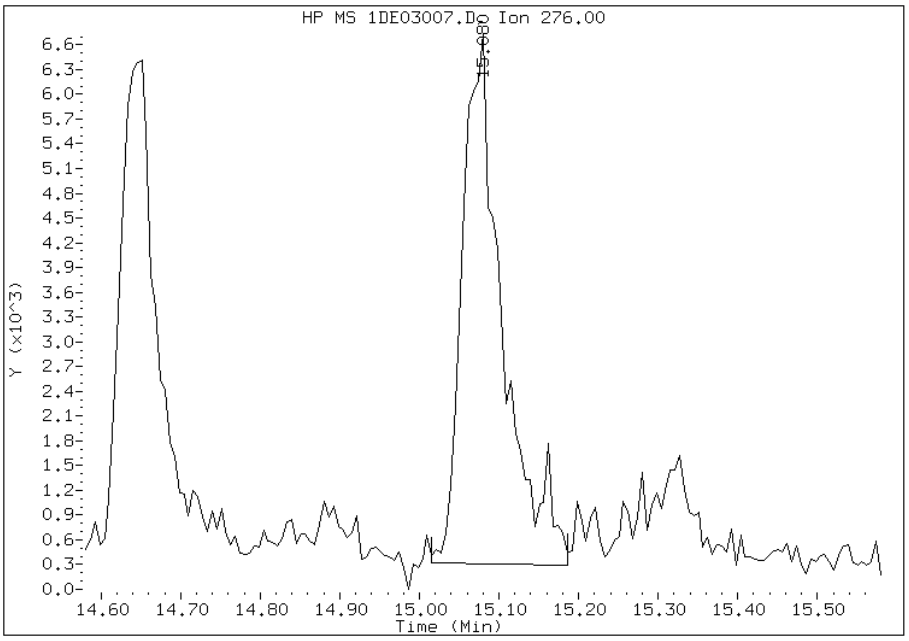
Manual Integration Results

RT: 15.08

Response: 22543

Amount: 0

Conc: 36



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:17
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03007.D
Inj. Date and Time: 03-MAY-2013 12:13
Instrument ID: BSMSD.i
Client ID: CV1144C-CSD
Compound: 20 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/06/2013

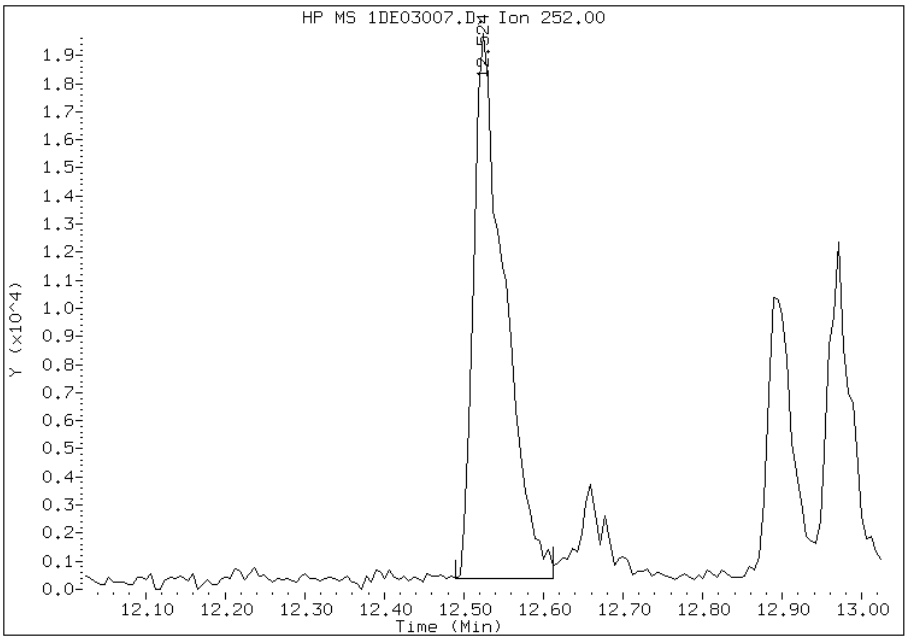
Processing Integration Results

RT: 12.52

Response: 52526

Amount: 1

Conc: 82



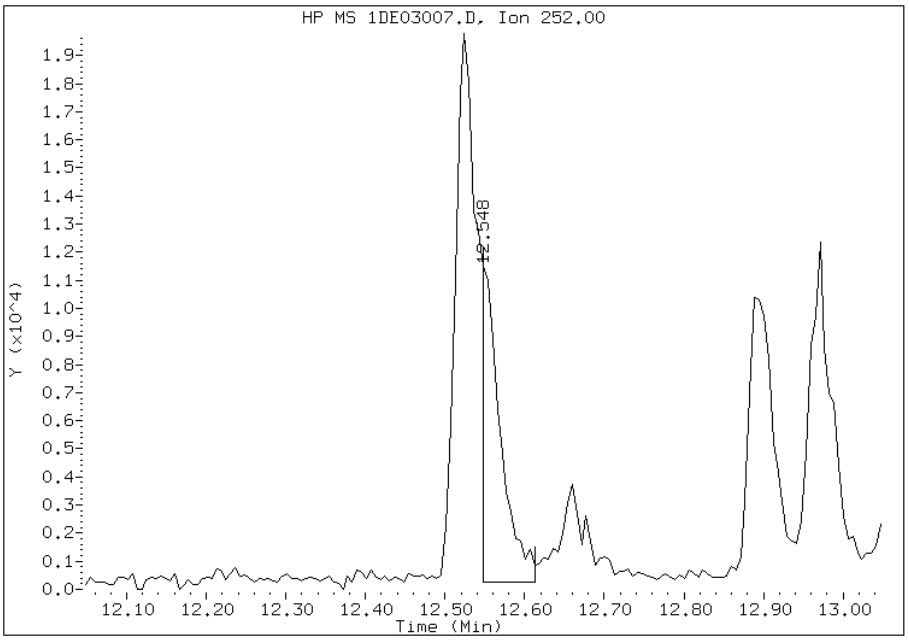
Manual Integration Results

RT: 12.55

Response: 18620

Amount: 0

Conc: 29



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:16
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03007.D
Inj. Date and Time: 03-MAY-2013 12:13
Instrument ID: BSMSD.i
Client ID: CV1144C-CSD
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/06/2013

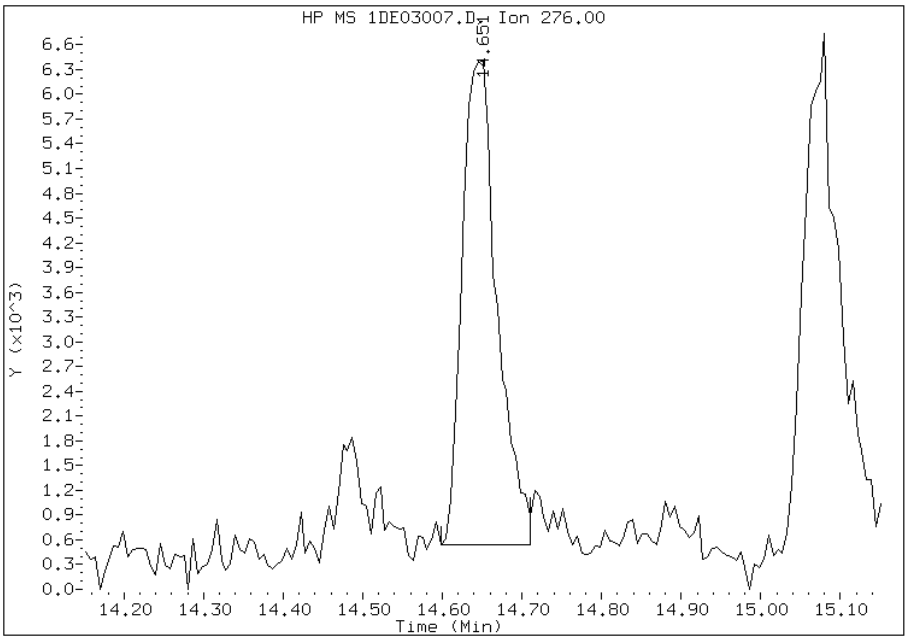
Processing Integration Results

RT: 14.65

Response: 17970

Amount: 0

Conc: 27



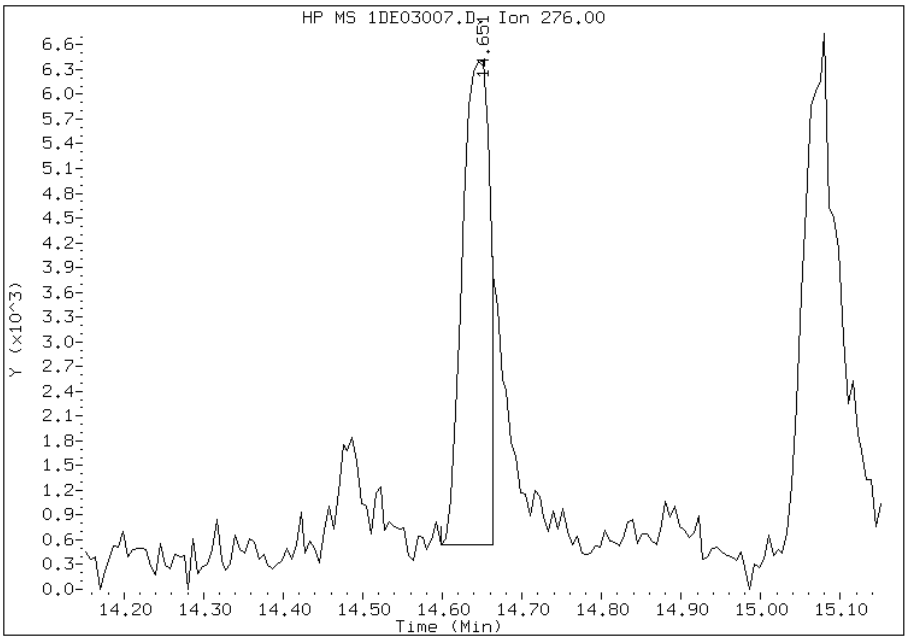
Manual Integration Results

RT: 14.65

Response: 14202

Amount: 0

Conc: 22



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:17
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DE03007.D
Inj. Date and Time: 03-MAY-2013 12:13
Instrument ID: BSMSD.i
Client ID: CV1144C-CSD
Compound: 4 1-Methylnaphthalene
CAS #: 90-12-0
Report Date: 05/06/2013

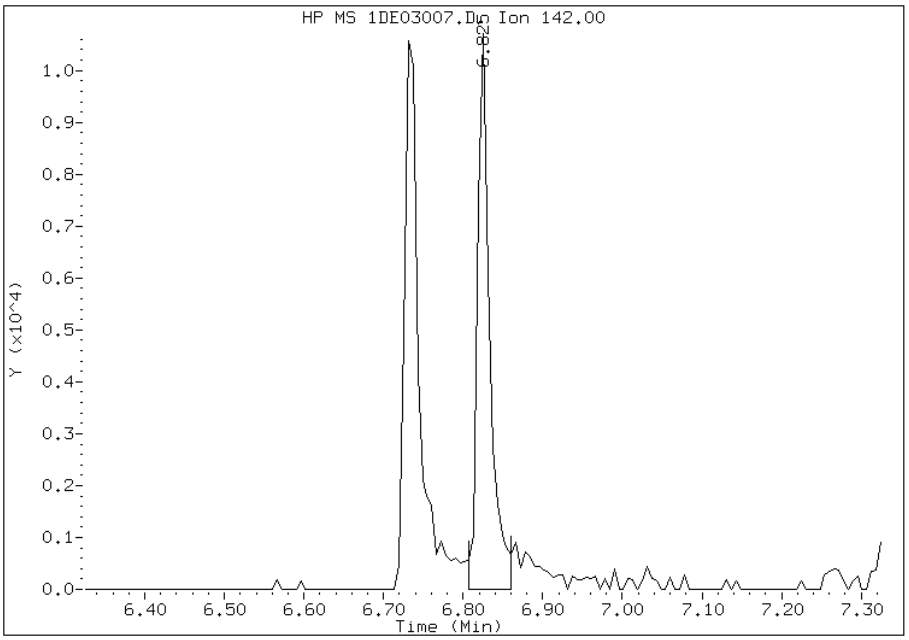
Processing Integration Results

RT: 6.83

Response: 11569

Amount: 0

Conc: 35



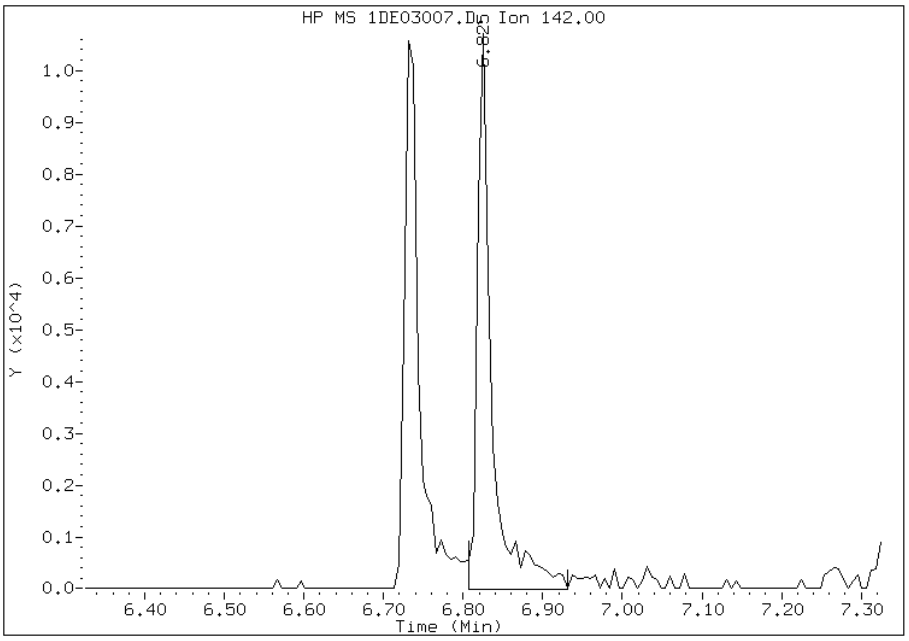
Manual Integration Results

RT: 6.83

Response: 13445

Amount: 0

Conc: 40



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03007.D
Inj. Date and Time: 03-MAY-2013 12:13
Instrument ID: BSMSD.i
Client ID: CV1144C-CSD
Compound: 3 2-Methylnaphthalene
CAS #: 91-57-6
Report Date: 05/06/2013

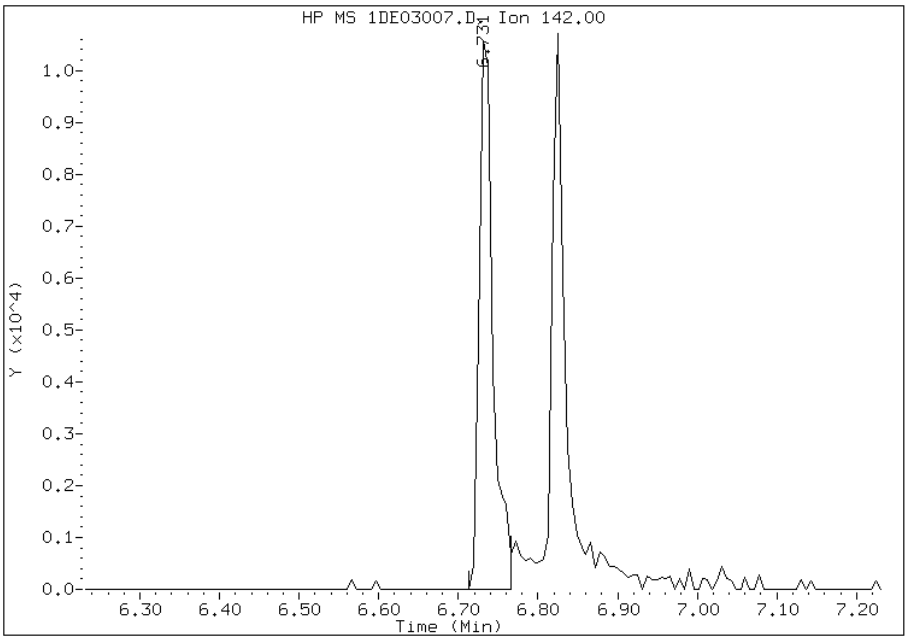
Processing Integration Results

RT: 6.73

Response: 12826

Amount: 0

Conc: 36



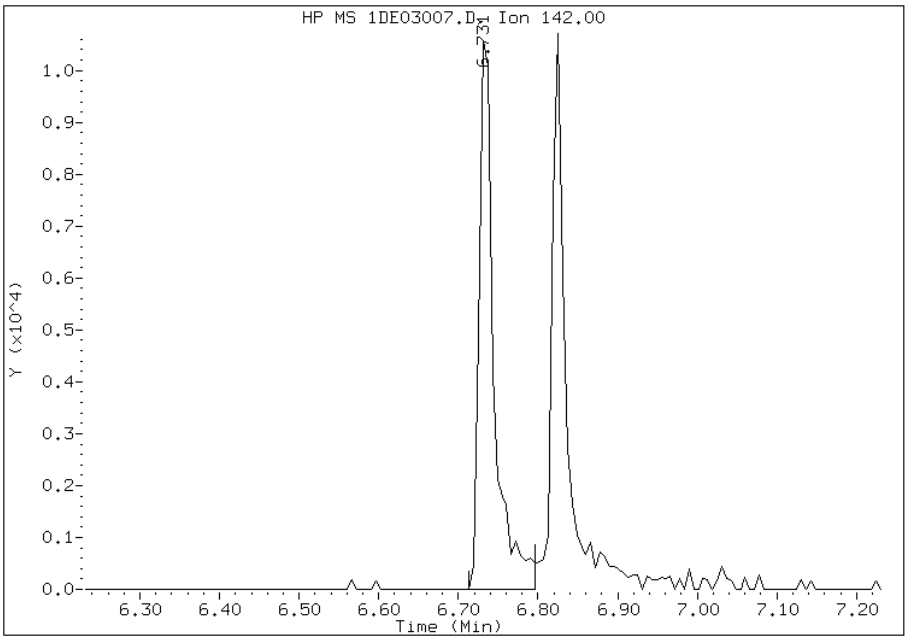
Manual Integration Results

RT: 6.73

Response: 13985

Amount: 0

Conc: 39



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03007.D
Inj. Date and Time: 03-MAY-2013 12:13
Instrument ID: BSMSD.i
Client ID: CV1144C-CSD
Compound: 2 Naphthalene
CAS #: 91-20-3
Report Date: 05/06/2013

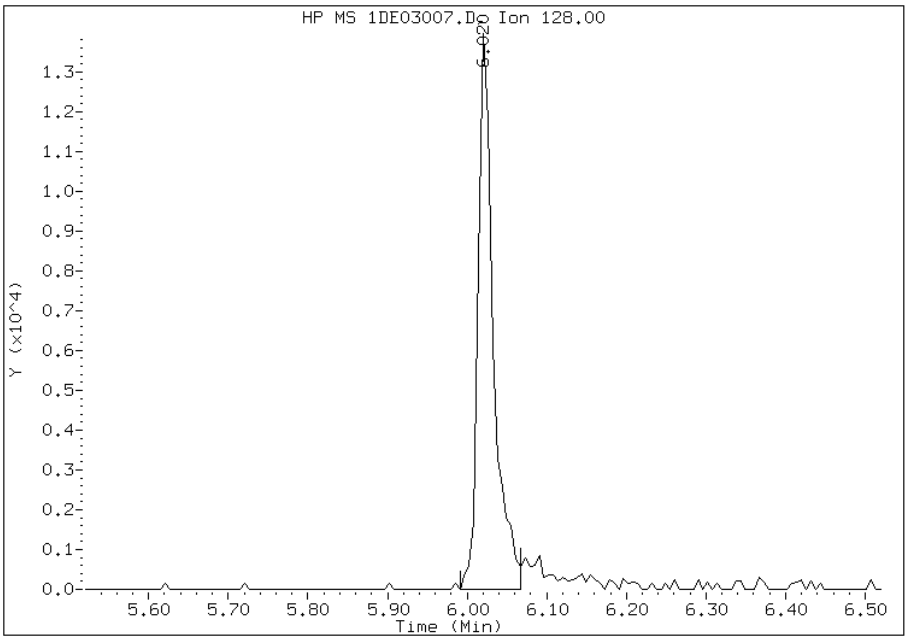
Processing Integration Results

RT: 6.02

Response: 18783

Amount: 0

Conc: 34



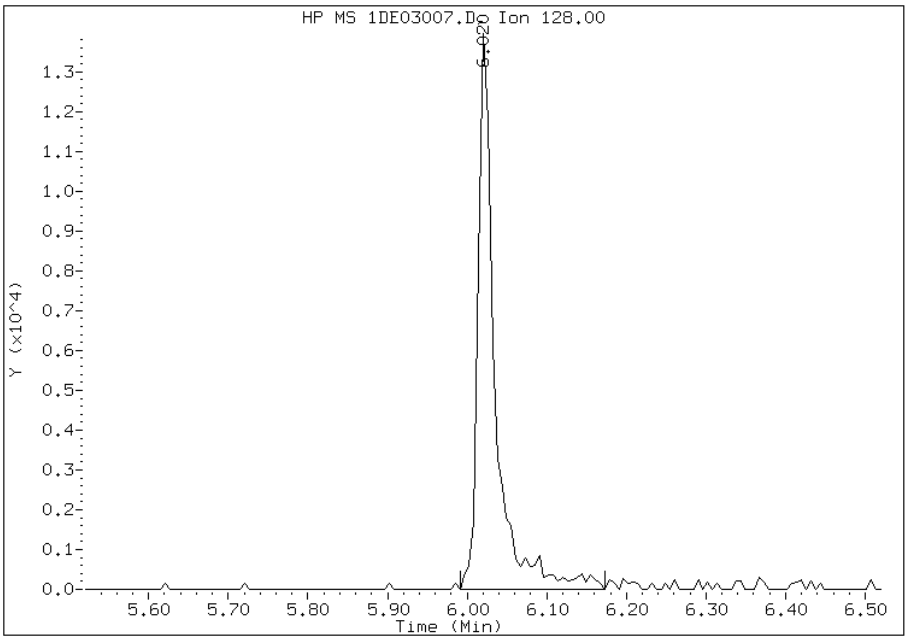
Manual Integration Results

RT: 6.02

Response: 21046

Amount: 0

Conc: 38



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:33
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: CV1146A-GS | Lab Sample ID: 680-89791-37

Matrix: Solid | Lab File ID: 1DE03008.D

Analysis Method: 8270C LL | Date Collected: 04/25/2013 14:10

Extract. Method: 3546 | Date Extracted: 05/02/2013 08:14

Sample wt/vol: 14.95(g) | Date Analyzed: 05/03/2013 12:36

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137126 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	7.8	J	47	5.8
120-12-7	Anthracene	10		9.8	4.9
56-55-3	Benzo[a]anthracene	36		9.3	4.5
50-32-8	Benzo[a]pyrene	38		12	6.0
205-99-2	Benzo[b]fluoranthene	50		14	7.1
191-24-2	Benzo[g,h,i]perylene	34		23	5.1
207-08-9	Benzo[k]fluoranthene	24		9.3	4.2
218-01-9	Chrysene	48		10	5.2
53-70-3	Dibenz(a,h)anthracene	23	U	23	4.8
206-44-0	Fluoranthene	66		23	4.7
86-73-7	Fluorene	23	U	23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	15	J	23	8.3
90-12-0	1-Methylnaphthalene	19	J	47	5.1
91-57-6	2-Methylnaphthalene	19	J	47	8.3
91-20-3	Naphthalene	18	J	47	5.1
85-01-8	Phenanthrene	42		9.3	4.5
129-00-0	Pyrene	62		23	4.3

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\1D050313.b\1DE03008.D
Lab Smp Id: 680-89791-A-37-A Client Smp ID: CV1146A-GS
Inj Date : 03-MAY-2013 12:36
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89791-a-37-a
Misc Info : 680-89791-A-37-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D050313.b\dFASTPAHi.m
Meth Date : 03-May-2013 10:55 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 9
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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	13.760	% 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	6.001	6.004	(1.000)	1368718	40.0000	
* 6	Acenaphthene-d10	164	7.687	7.690	(1.000)	887820	40.0000	
* 9	Phenanthrene-d10	188	8.951	8.953	(1.000)	1455432	40.0000	
$ 13	o-Terphenyl	230	9.256	9.259	(1.034)	139306	6.35244	490
* 17	Chrysene-d12	240	11.254	11.257	(1.000)	1453459	40.0000	
* 22	Perylene-d12	264	13.063	13.066	(1.000)	1439537	40.0000	
2	Naphthalene	128	6.025	6.027	(1.004)	7939	0.23336	18(M)
3	2-Methylnaphthalene	142	6.736	6.738	(1.122)	5450	0.24817	19
4	1-Methylnaphthalene	142	6.830	6.826	(1.138)	4959	0.23912	18(M)
5	Acenaphthylene	152	7.558	7.561	(0.983)	3773	0.10041	7.8
8	Fluorene	166	8.152	8.160	(1.060)	860	0.03131	2.4(Q)
10	Phenanthrene	178	8.968	8.971	(1.002)	21889	0.54600	42(M)
11	Anthracene	178	9.009	9.012	(1.007)	5324	0.13380	10(M)
12	Carbazole	167	9.150	9.159	(1.022)	2329	0.06636	5.1

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	9.949	9.958	(1.112)	34972	0.84773	66
15 Pyrene	202	10.138	10.146	(0.901)	34981	0.80145	62(M)
16 Benzo(a)anthracene	228	11.236	11.239	(0.998)	19607	0.46658	36
18 Chrysene	228	11.277	11.280	(1.002)	24424	0.61987	48
19 Benzo(b)fluoranthene	252	12.523	12.526	(0.959)	23086	0.64199	50(M)
20 Benzo(k)fluoranthene	252	12.552	12.567	(0.961)	11586	0.30583	24(QM)
21 Benzo(a)pyrene	252	12.969	12.978	(0.993)	17799	0.49262	38
23 Indeno(1,2,3-cd)pyrene	276	14.644	14.647	(1.121)	7604	0.19737	15(M)
24 Dibenzo(a,h)anthracene	278	14.662	14.670	(1.122)	1457	0.04016	3.1
25 Benzo(g,h,i)perylene	276	15.067	15.081	(1.153)	16165	0.43576	34(M)

QC Flag Legend

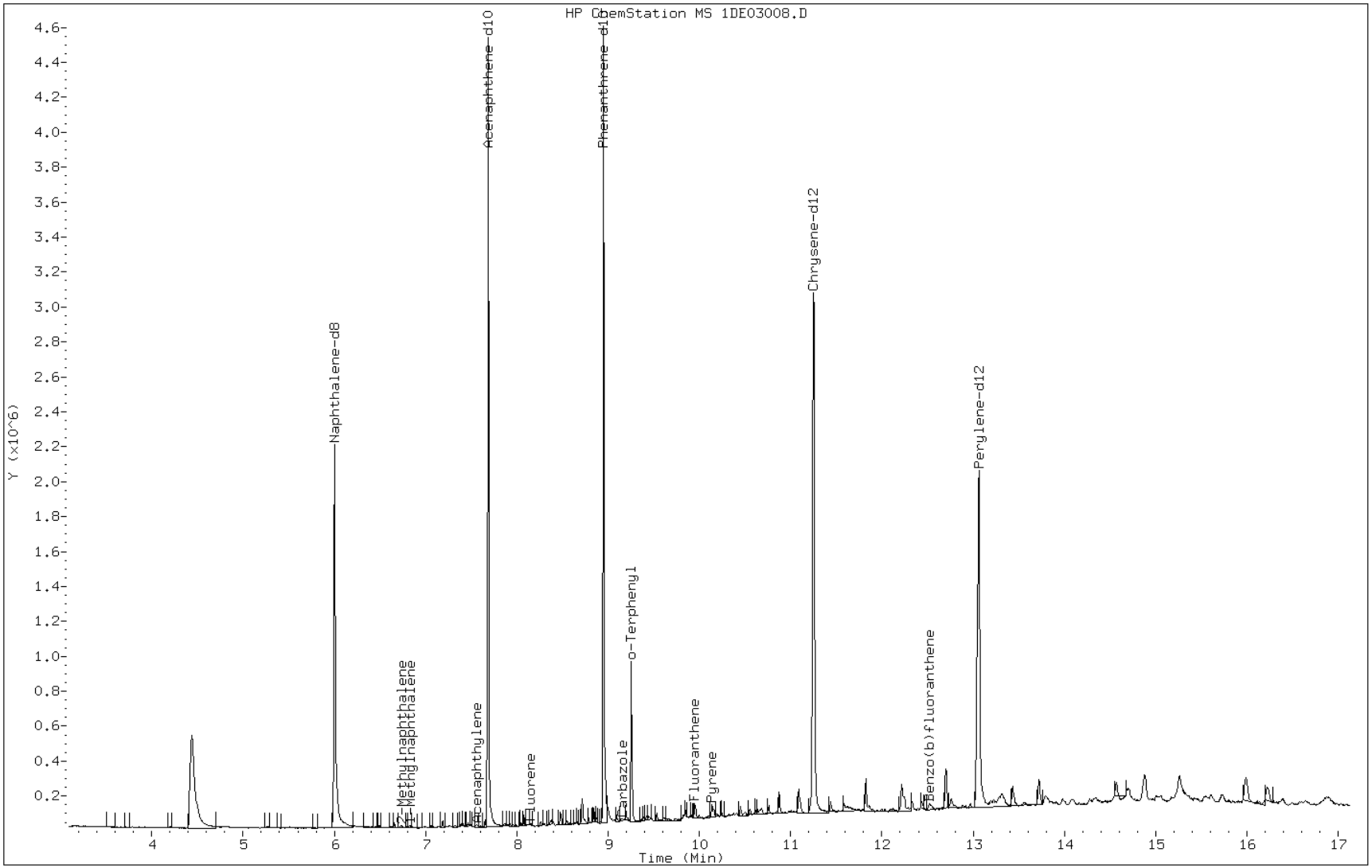
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1DE03008.D

Date: 03-MAY-2013 12:36

Client ID: CV1146A-GS Instrument: BSMSD.i

Sample Info: 680-89791-a-37-a Operator: SCC



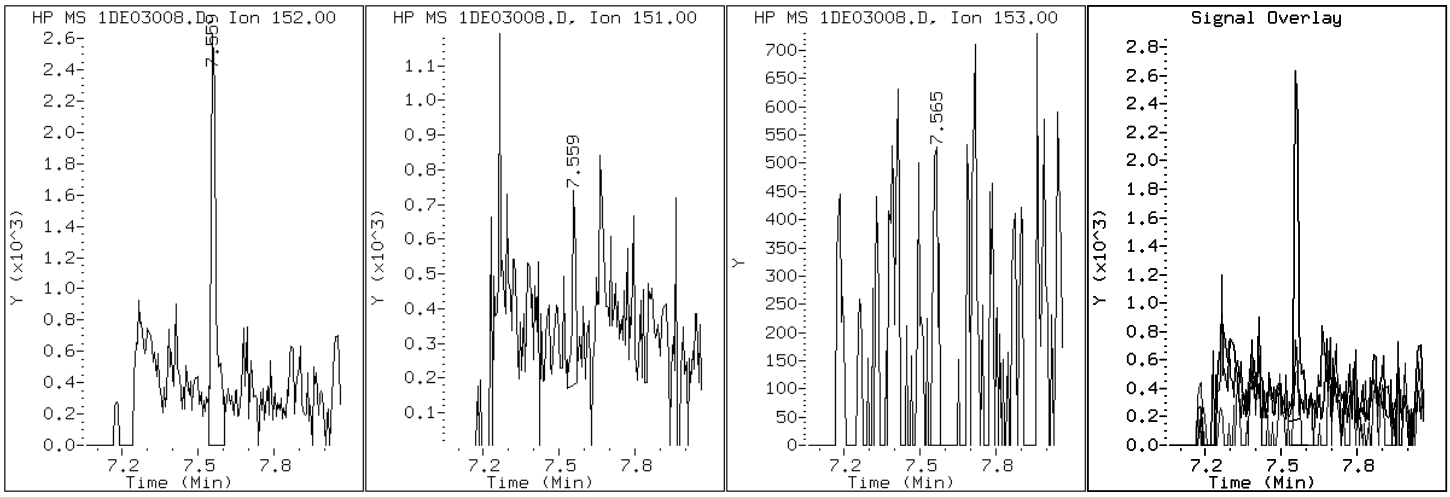
Data File: 1DE03008.D

Date: 03-MAY-2013 12:36

Client ID: CV1146A-GS Instrument: BSMSD.i

Sample Info: 680-89791-a-37-a Operator: SCC

5 Acenaphthylene



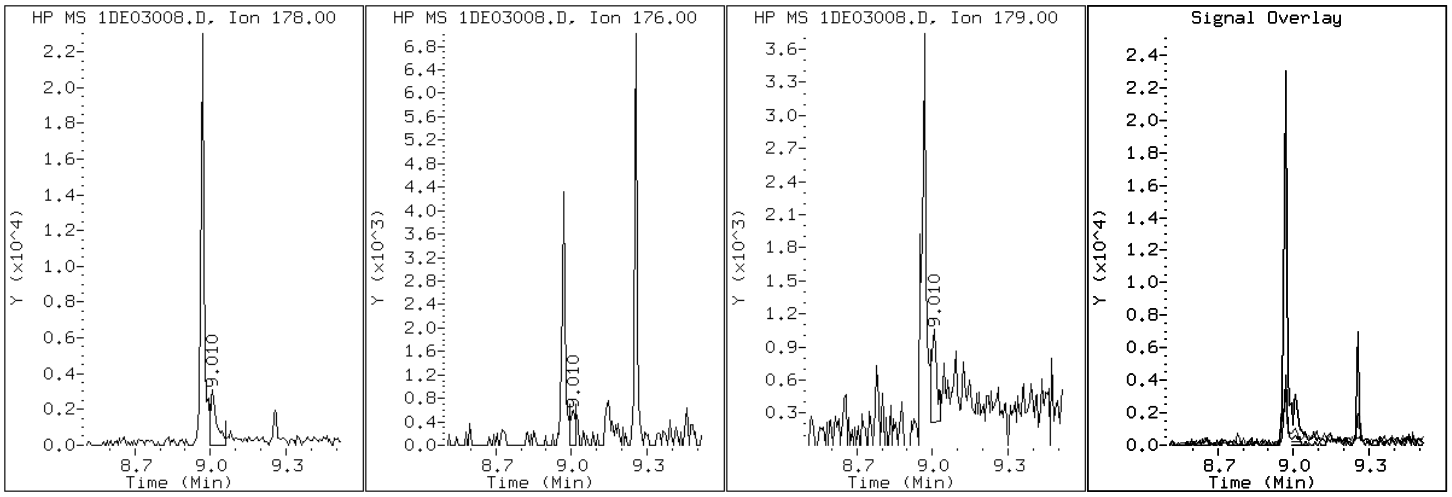
Data File: 1DE03008.D

Date: 03-MAY-2013 12:36

Client ID: CV1146A-GS Instrument: BSMSD.i

Sample Info: 680-89791-a-37-a Operator: SCC

11 Anthracene



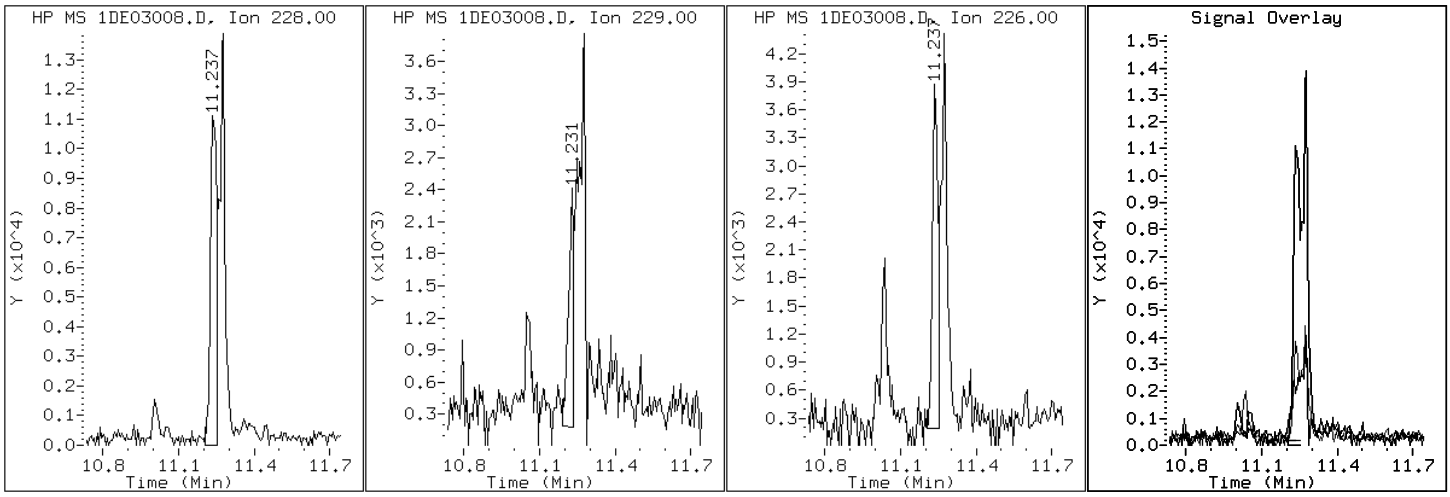
Data File: 1DE03008.D

Date: 03-MAY-2013 12:36

Client ID: CV1146A-GS Instrument: BSMSD.i

Sample Info: 680-89791-a-37-a Operator: SCC

16 Benzo(a)anthracene



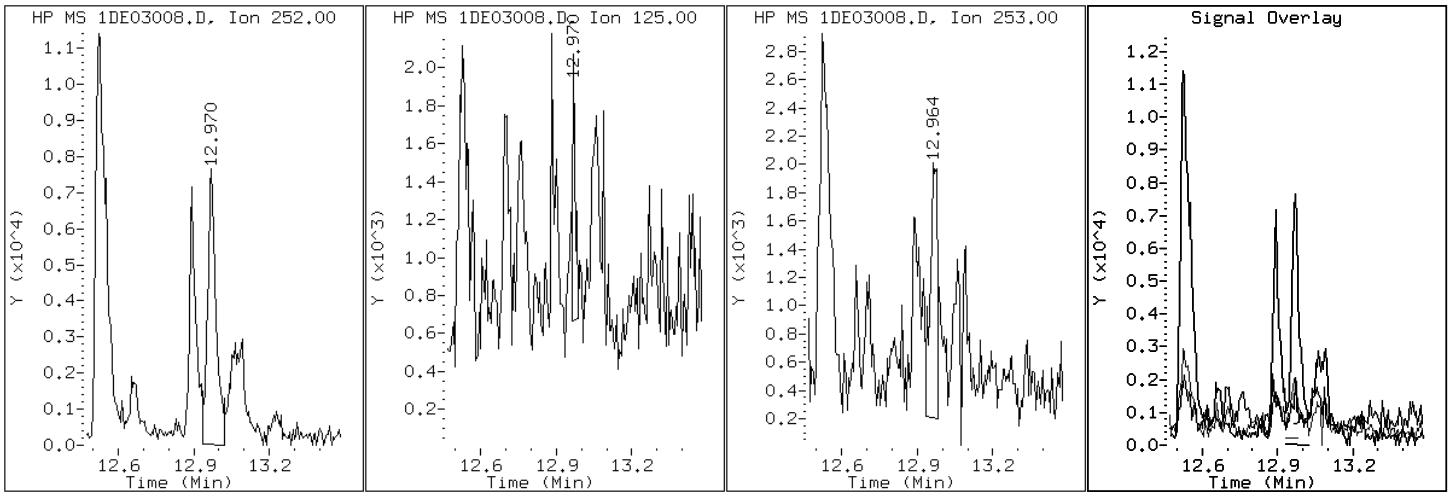
Data File: 1DE03008.D

Date: 03-MAY-2013 12:36

Client ID: CV1146A-GS Instrument: BSMSD.i

Sample Info: 680-89791-a-37-a Operator: SCC

21 Benzo(a)pyrene



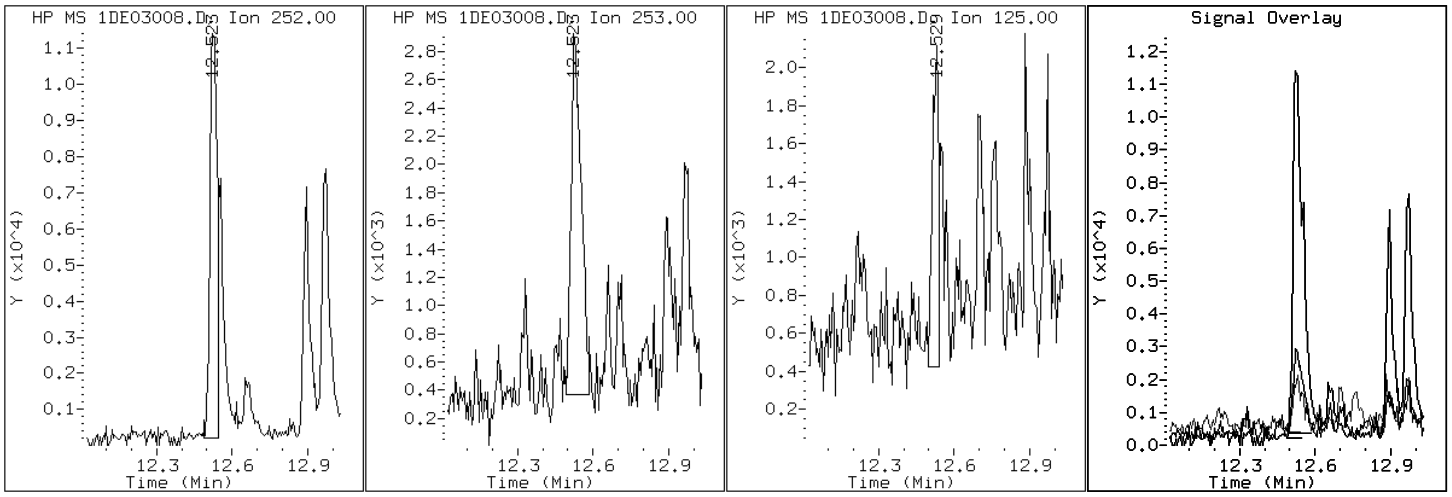
Data File: 1DE03008.D

Date: 03-MAY-2013 12:36

Client ID: CV1146A-GS Instrument: BSMSD.i

Sample Info: 680-89791-a-37-a Operator: SCC

19 Benzo(b)fluoranthene



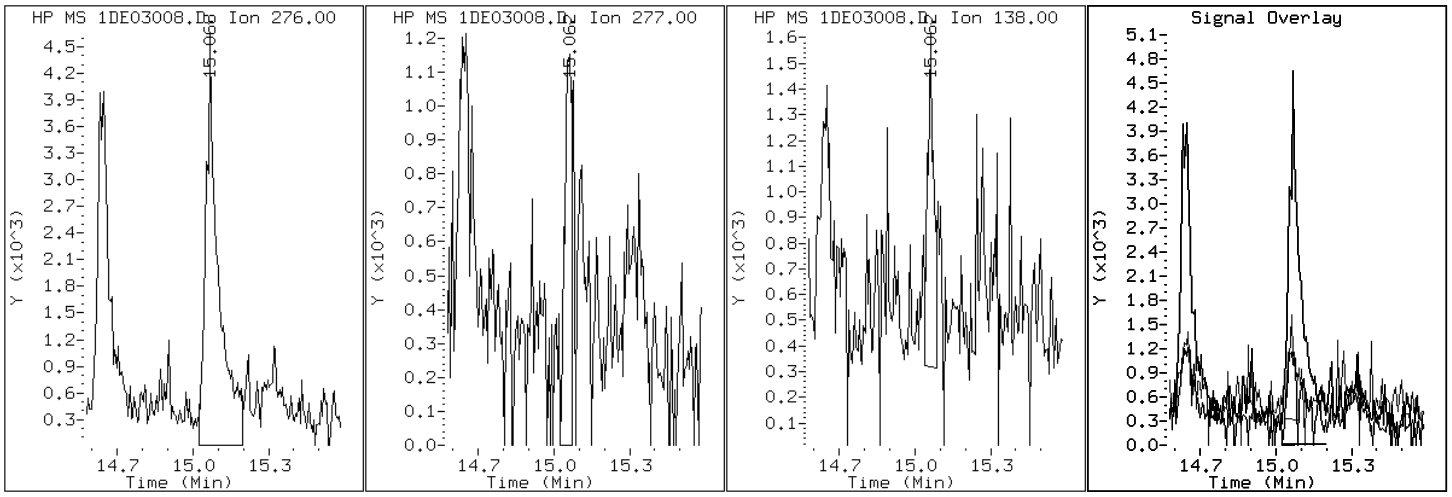
Data File: 1DE03008.D

Date: 03-MAY-2013 12:36

Client ID: CV1146A-GS Instrument: BSMSD.i

Sample Info: 680-89791-a-37-a Operator: SCC

25 Benzo(g,h,i)perylene



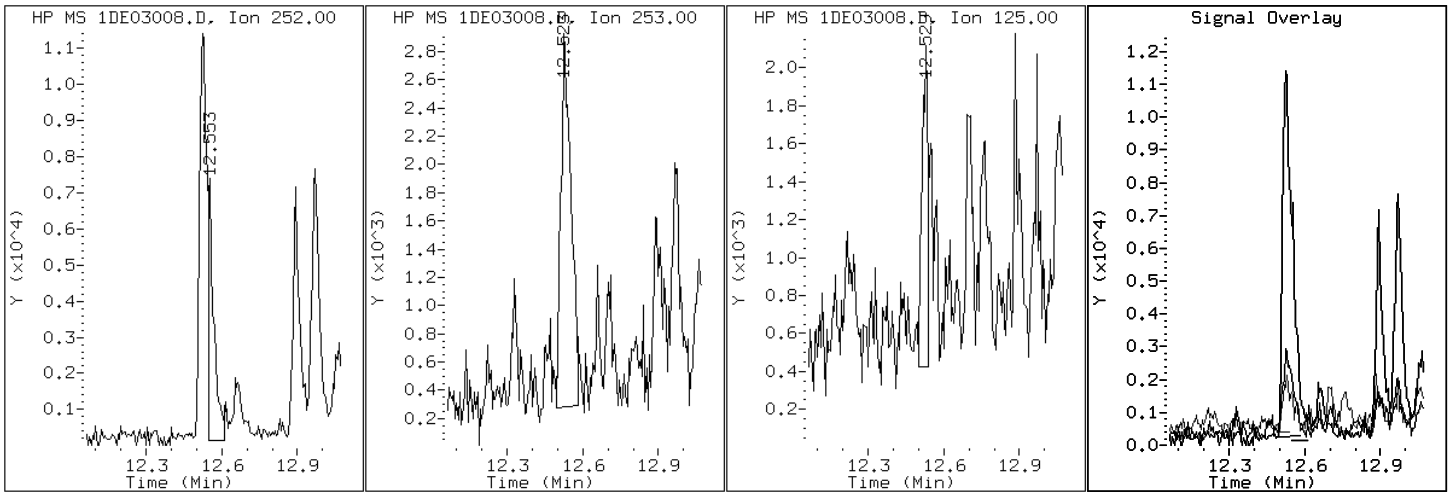
Data File: 1DE03008.D

Date: 03-MAY-2013 12:36

Client ID: CV1146A-GS Instrument: BSMSD.i

Sample Info: 680-89791-a-37-a Operator: SCC

20 Benzo(k)fluoranthene



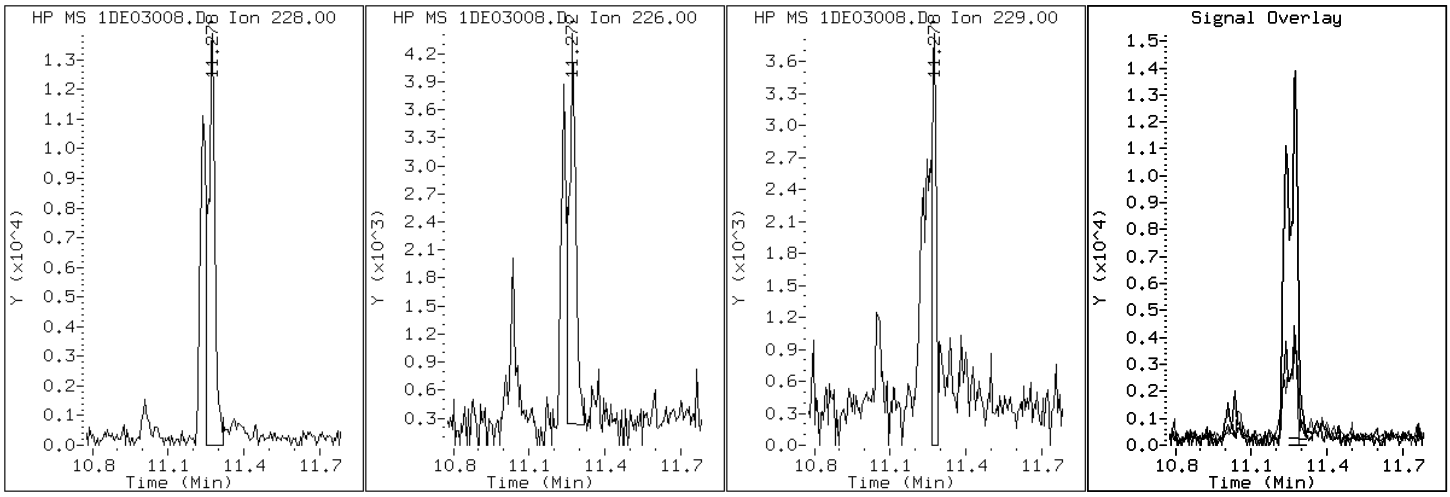
Data File: 1DE03008.D

Date: 03-MAY-2013 12:36

Client ID: CV1146A-GS Instrument: BSMSD.i

Sample Info: 680-89791-a-37-a Operator: SCC

18 Chrysene



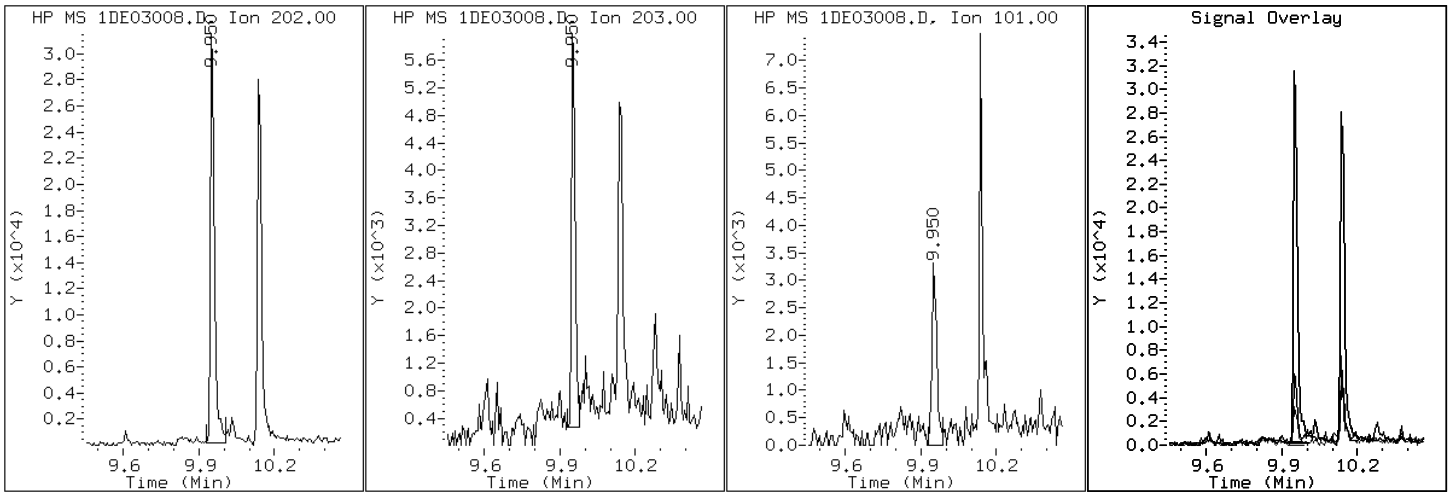
Data File: 1DE03008.D

Date: 03-MAY-2013 12:36

Client ID: CV1146A-GS Instrument: BSMSD.i

Sample Info: 680-89791-a-37-a Operator: SCC

14 Fluoranthene



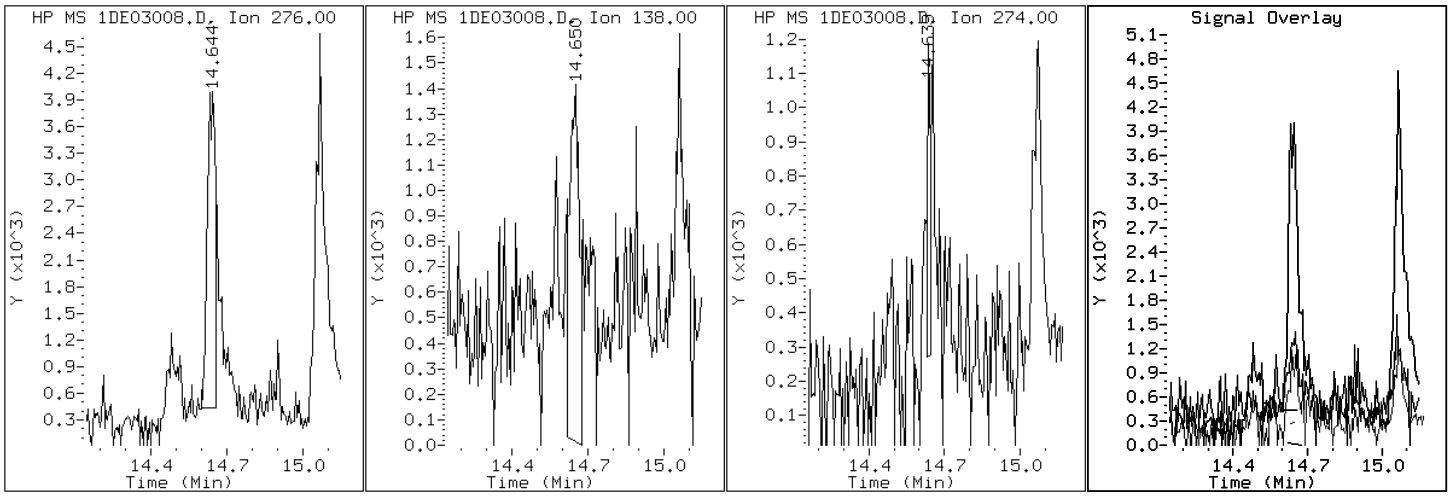
Data File: 1DE03008.D

Date: 03-MAY-2013 12:36

Client ID: CV1146A-GS Instrument: BSMSD.i

Sample Info: 680-89791-a-37-a Operator: SCC

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



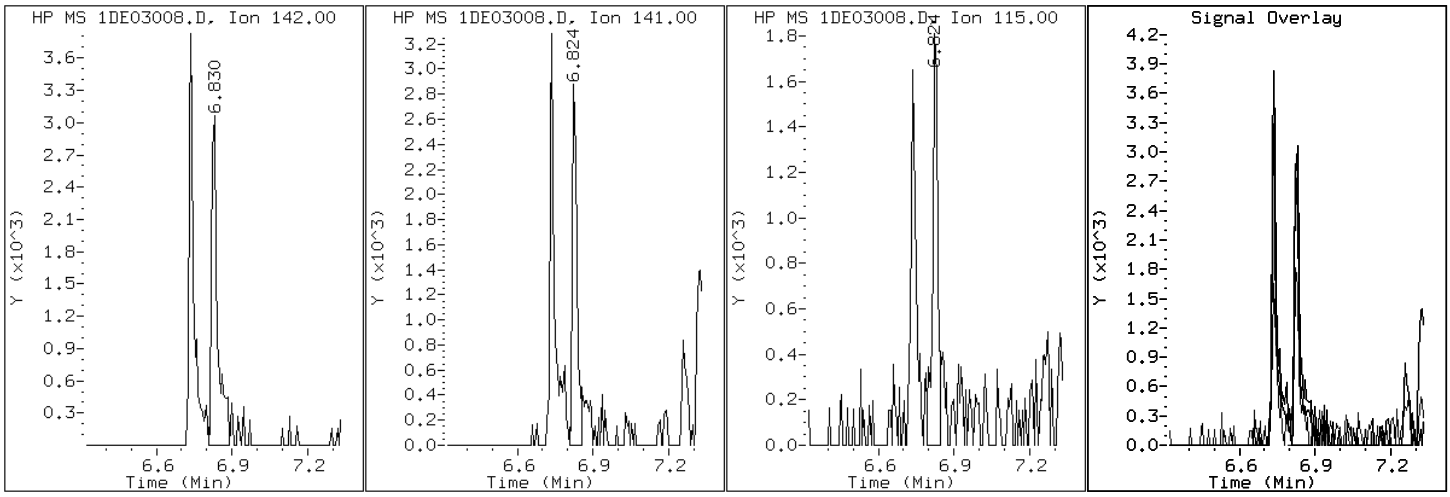
Data File: 1DE03008.D

Date: 03-MAY-2013 12:36

Client ID: CV1146A-GS Instrument: BSMSD.i

Sample Info: 680-89791-a-37-a Operator: SCC

4 1-Methylnaphthalene



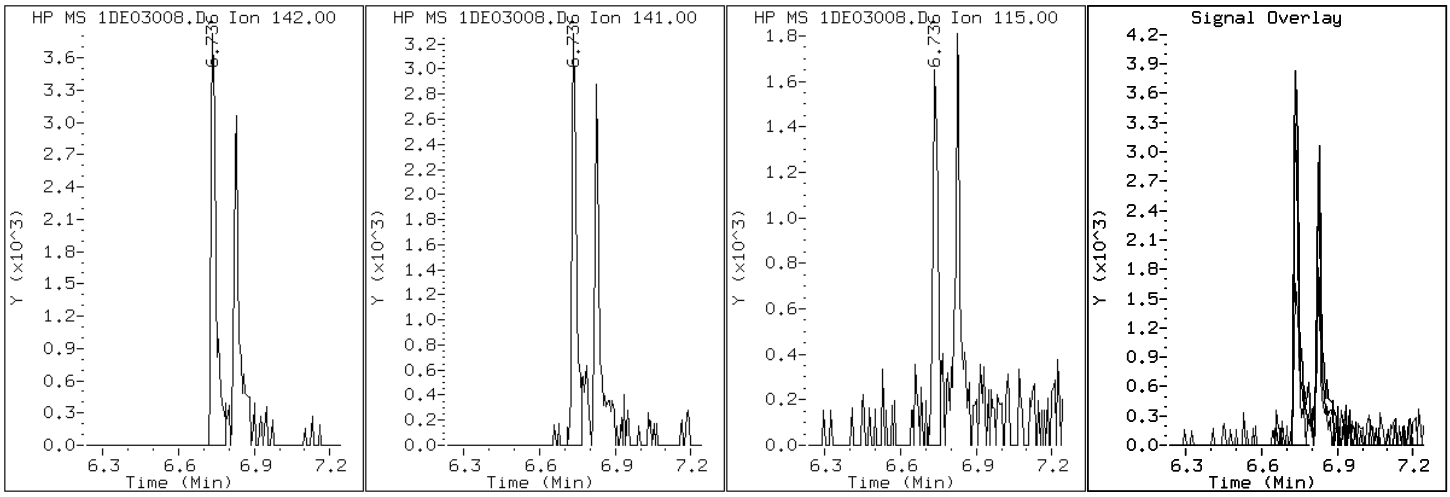
Data File: 1DE03008.D

Date: 03-MAY-2013 12:36

Client ID: CV1146A-GS Instrument: BSMSD.i

Sample Info: 680-89791-a-37-a Operator: SCC

3 2-Methylnaphthalene



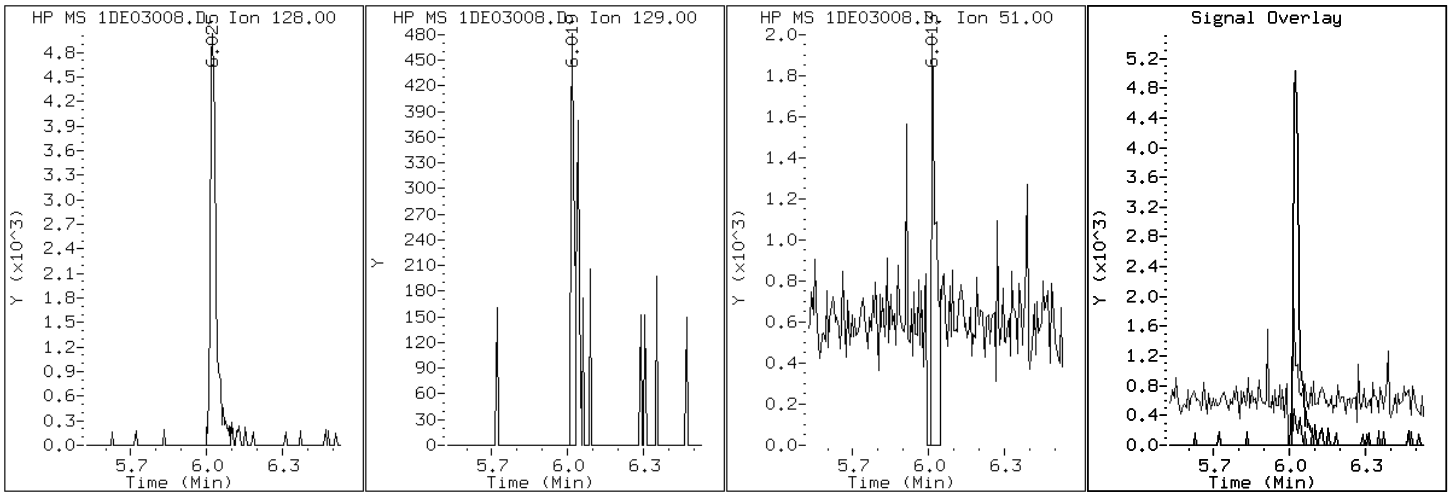
Data File: 1DE03008.D

Date: 03-MAY-2013 12:36

Client ID: CV1146A-GS Instrument: BSMSD.i

Sample Info: 680-89791-a-37-a Operator: SCC

2 Naphthalene



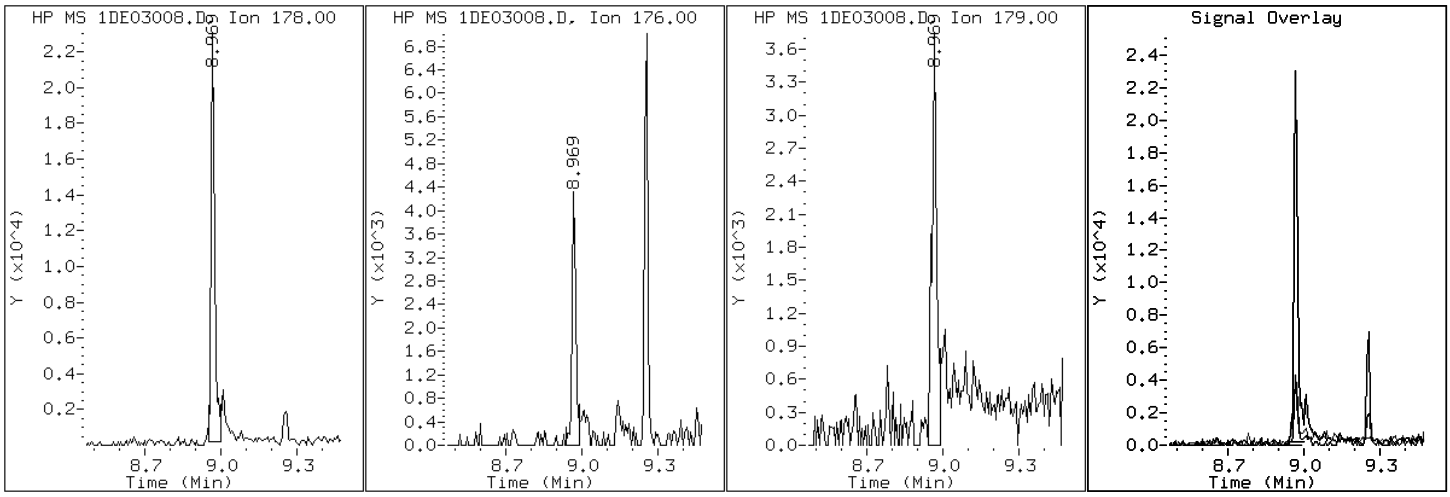
Data File: 1DE03008.D

Date: 03-MAY-2013 12:36

Client ID: CV1146A-GS Instrument: BSMSD.i

Sample Info: 680-89791-a-37-a Operator: SCC

10 Phenanthrene



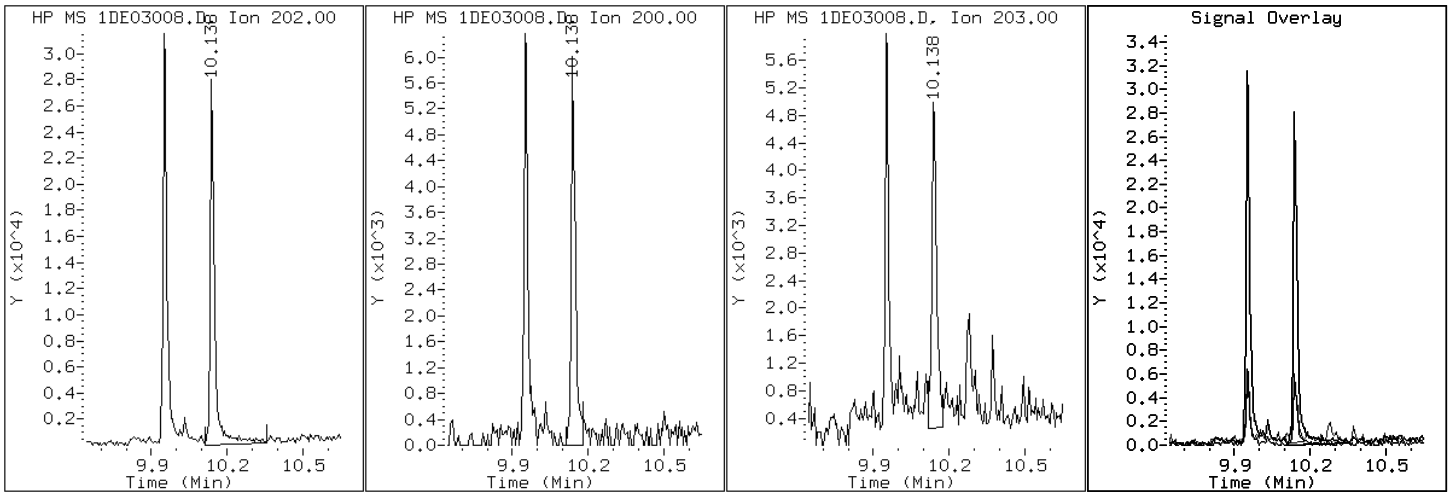
Data File: 1DE03008.D

Date: 03-MAY-2013 12:36

Client ID: CV1146A-GS Instrument: BSMSD.i

Sample Info: 680-89791-a-37-a Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DE03008.D
Inj. Date and Time: 03-MAY-2013 12:36
Instrument ID: BSMSD.i
Client ID: CV1146A-GS
Compound: 11 Anthracene
CAS #: 120-12-7
Report Date: 05/06/2013

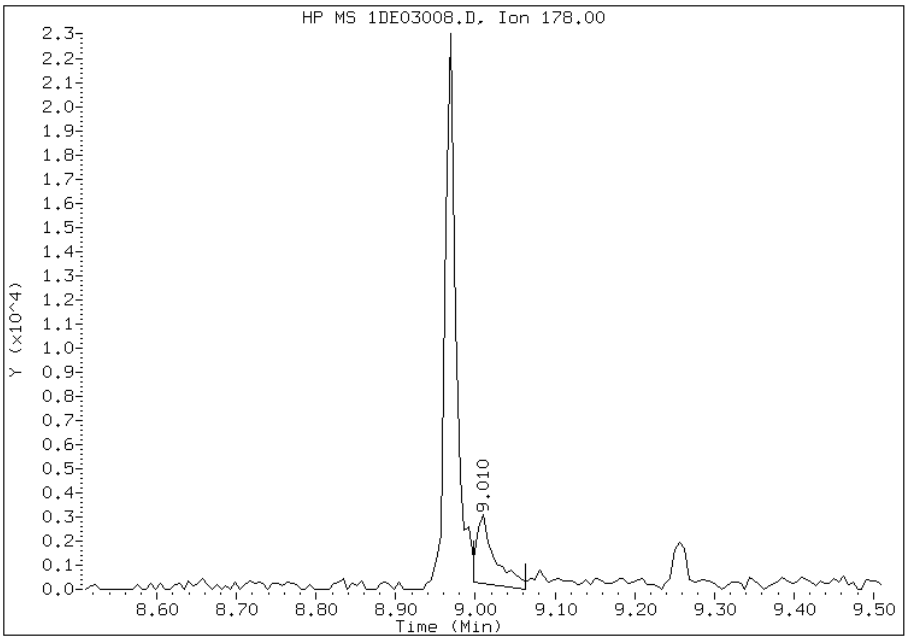
Processing Integration Results

RT: 9.01

Response: 4643

Amount: 0

Conc: 9



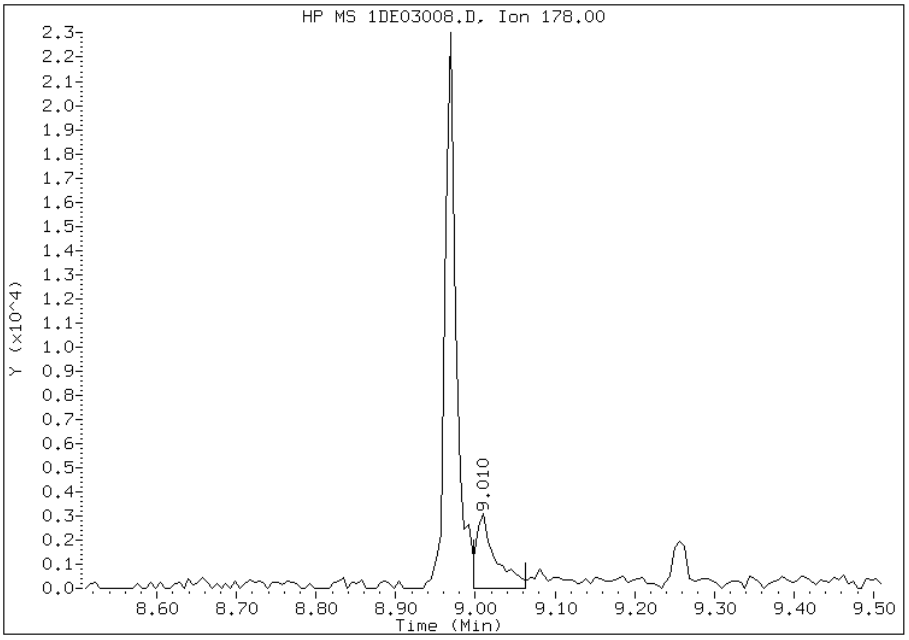
Manual Integration Results

RT: 9.01

Response: 5324

Amount: 0

Conc: 10



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03008.D
Inj. Date and Time: 03-MAY-2013 12:36
Instrument ID: BSMSD.i
Client ID: CV1146A-GS
Compound: 19 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/06/2013

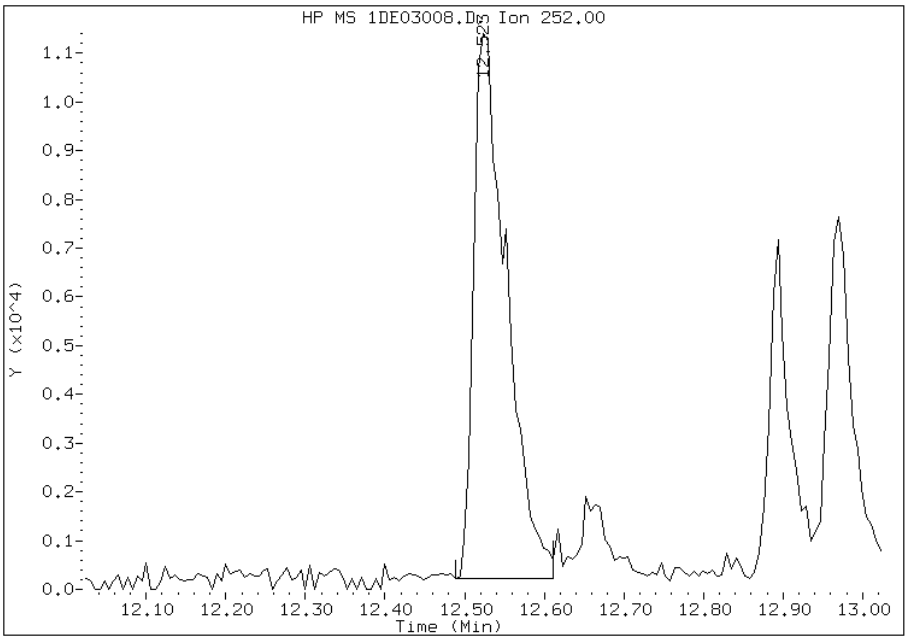
Processing Integration Results

RT: 12.52

Response: 32150

Amount: 1

Conc: 69



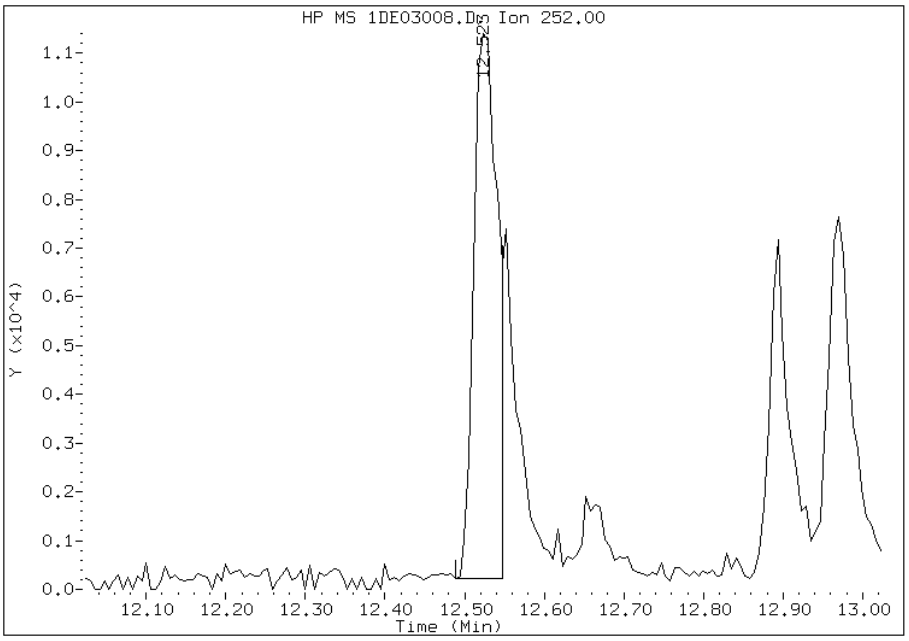
Manual Integration Results

RT: 12.52

Response: 23086

Amount: 1

Conc: 50



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:19
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DE03008.D
Inj. Date and Time: 03-MAY-2013 12:36
Instrument ID: BSMSD.i
Client ID: CV1146A-GS
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/06/2013

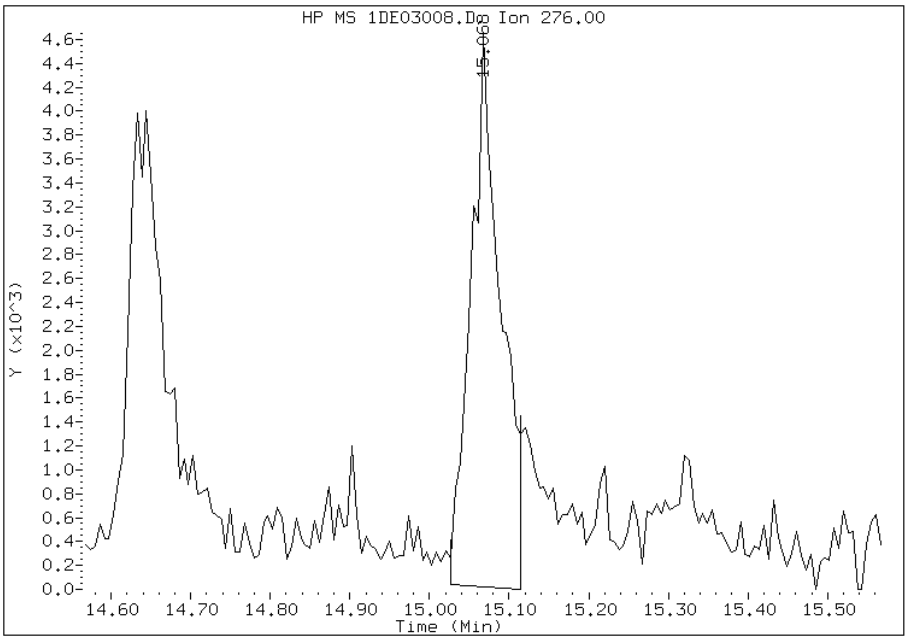
Processing Integration Results

RT: 15.07

Response: 12294

Amount: 0

Conc: 26



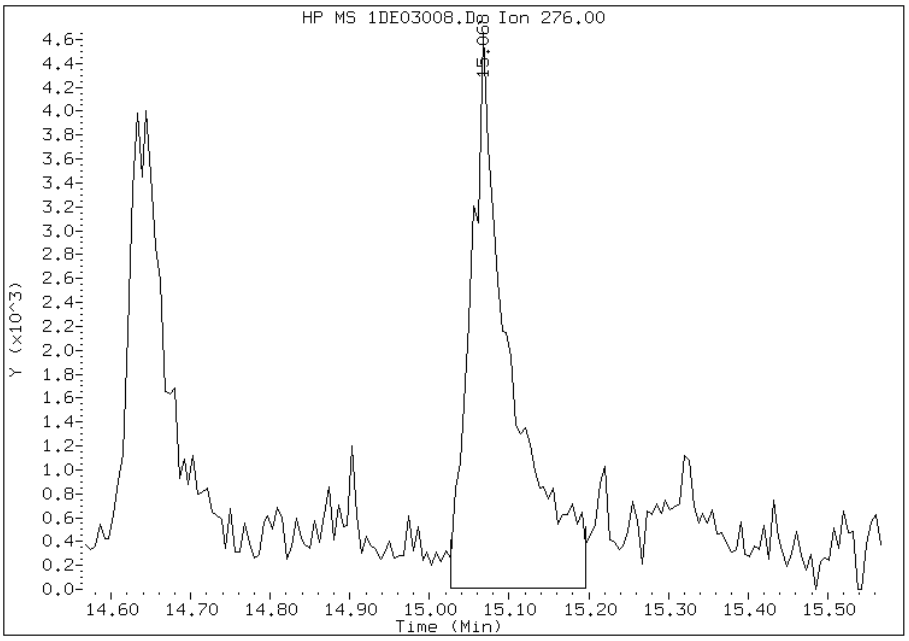
Manual Integration Results

RT: 15.07

Response: 16165

Amount: 0

Conc: 34



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:20
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03008.D
Inj. Date and Time: 03-MAY-2013 12:36
Instrument ID: BSMSD.i
Client ID: CV1146A-GS
Compound: 20 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/06/2013

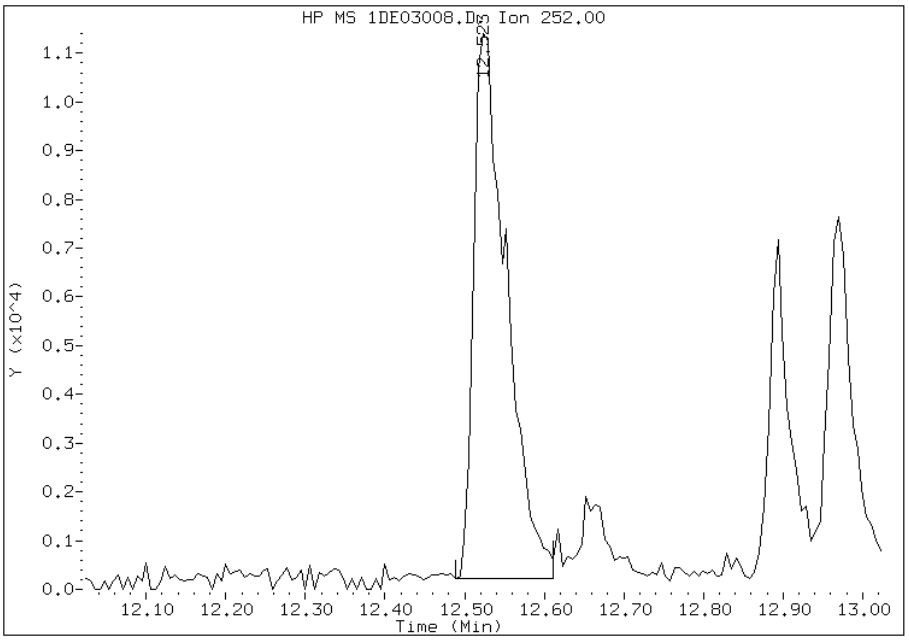
Processing Integration Results

RT: 12.52

Response: 32150

Amount: 1

Conc: 66



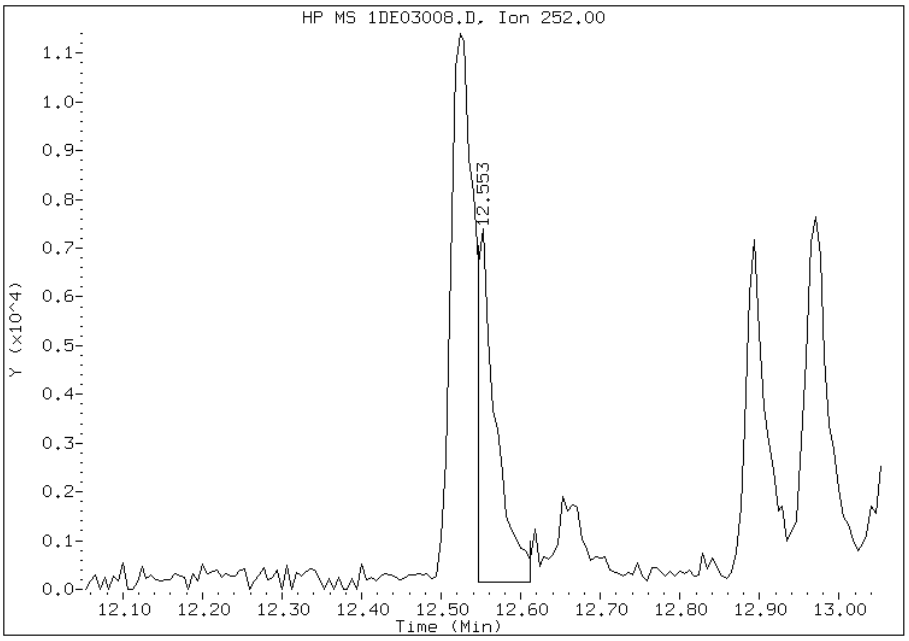
Manual Integration Results

RT: 12.55

Response: 11586

Amount: 0

Conc: 24



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03008.D
Inj. Date and Time: 03-MAY-2013 12:36
Instrument ID: BSMSD.i
Client ID: CV1146A-GS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/06/2013

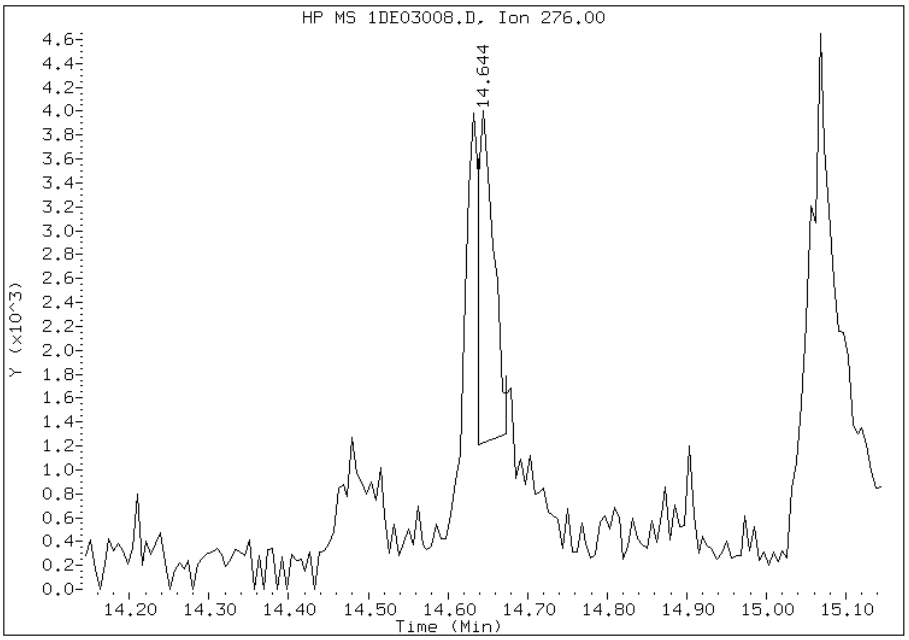
Processing Integration Results

RT: 14.64

Response: 3831

Amount: 0

Conc: 8



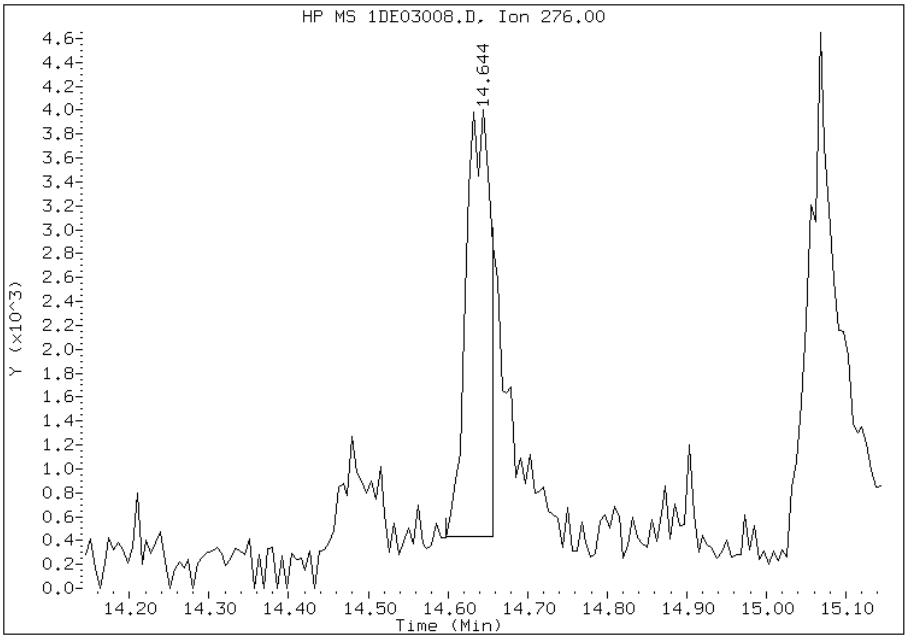
Manual Integration Results

RT: 14.64

Response: 7604

Amount: 0

Conc: 15



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:20
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03008.D
Inj. Date and Time: 03-MAY-2013 12:36
Instrument ID: BSMSD.i
Client ID: CV1146A-GS
Compound: 4 1-Methylnaphthalene
CAS #: 90-12-0
Report Date: 05/06/2013

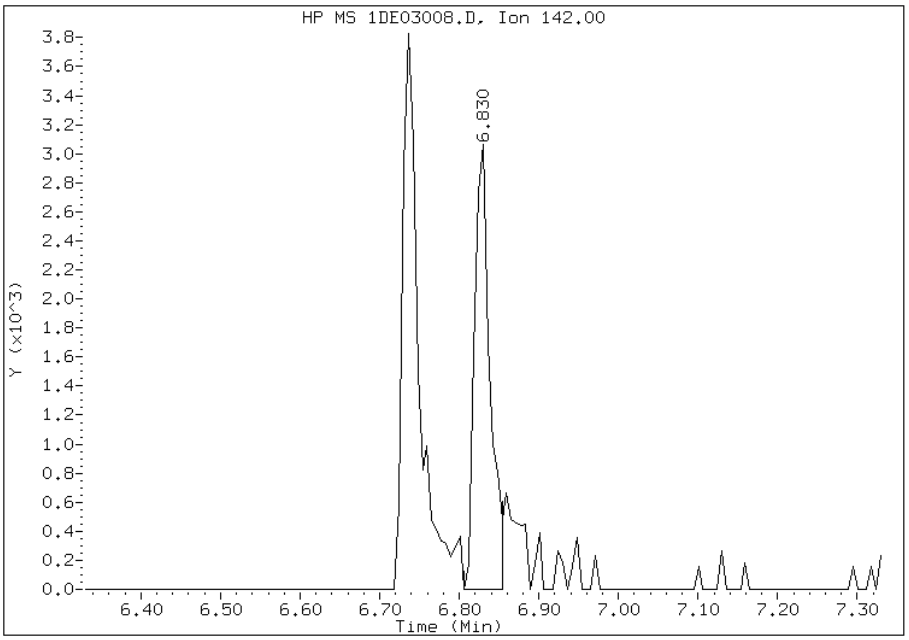
Processing Integration Results

RT: 6.83

Response: 4084

Amount: 0

Conc: 15



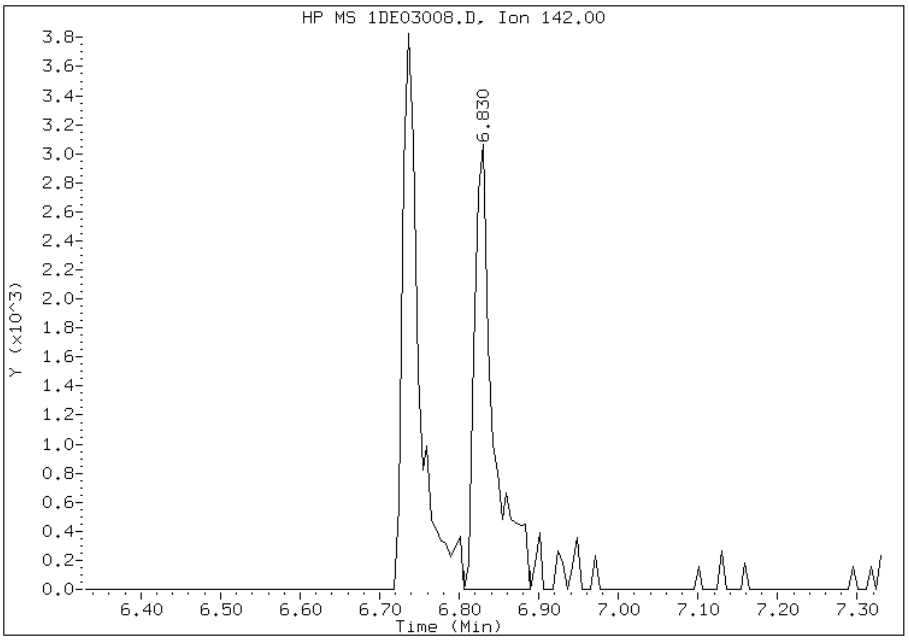
Manual Integration Results

RT: 6.83

Response: 4959

Amount: 0

Conc: 19



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:18
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03008.D
Inj. Date and Time: 03-MAY-2013 12:36
Instrument ID: BSMSD.i
Client ID: CV1146A-GS
Compound: 2 Naphthalene
CAS #: 91-20-3
Report Date: 05/06/2013

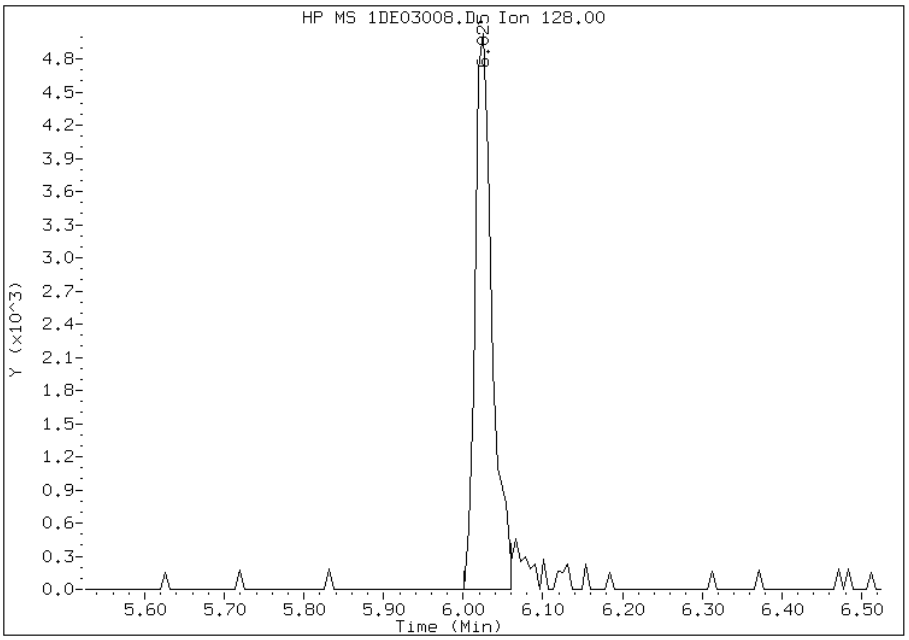
Processing Integration Results

RT: 6.03

Response: 7431

Amount: 0

Conc: 17



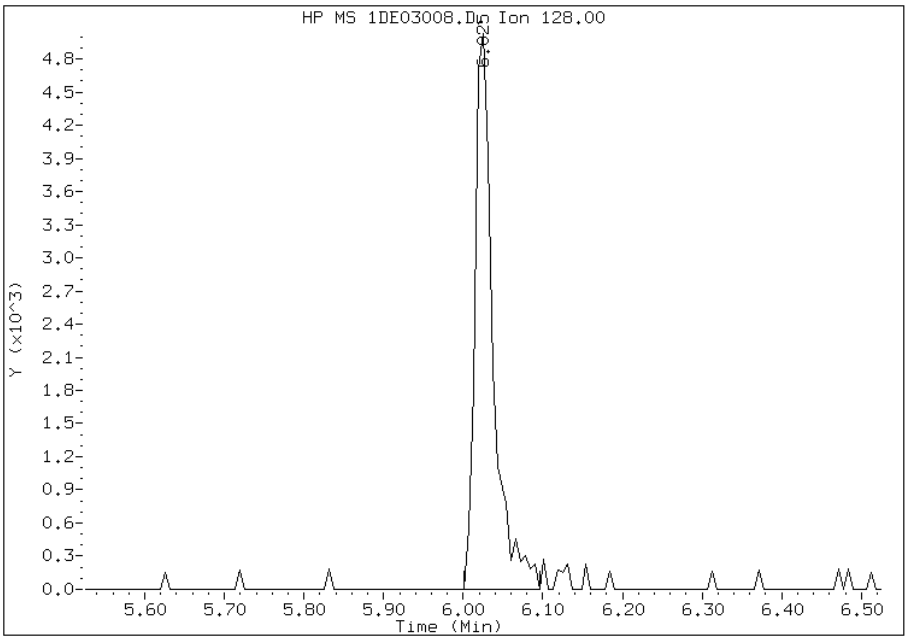
Manual Integration Results

RT: 6.03

Response: 7939

Amount: 0

Conc: 18



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:18
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03008.D
Inj. Date and Time: 03-MAY-2013 12:36
Instrument ID: BSMSD.i
Client ID: CV1146A-GS
Compound: 10 Phenanthrene
CAS #: 85-01-8
Report Date: 05/06/2013

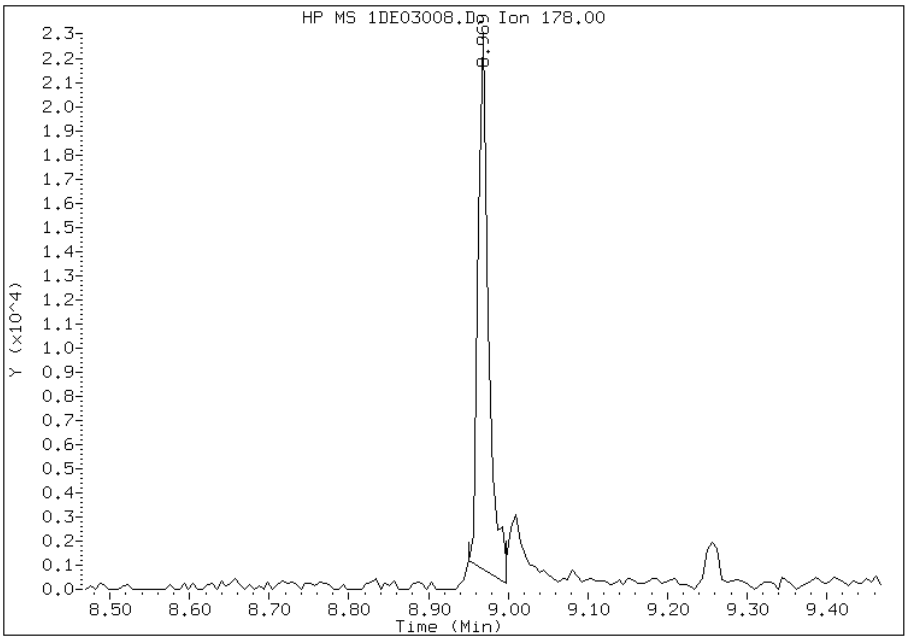
Processing Integration Results

RT: 8.97

Response: 20230

Amount: 1

Conc: 39



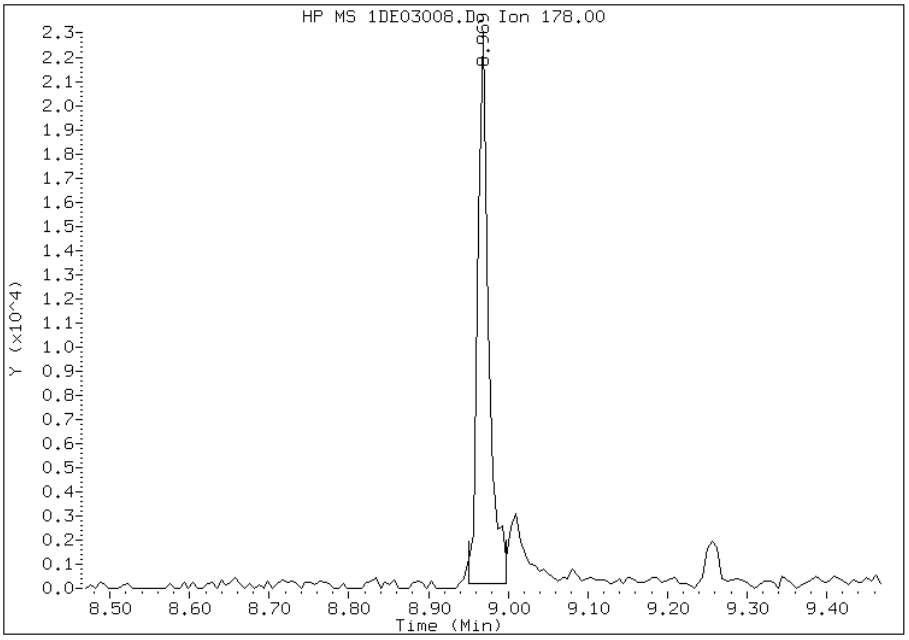
Manual Integration Results

RT: 8.97

Response: 21889

Amount: 1

Conc: 42



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:18
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03008.D
Inj. Date and Time: 03-MAY-2013 12:36
Instrument ID: BSMSD.i
Client ID: CV1146A-GS
Compound: 15 Pyrene
CAS #: 129-00-0
Report Date: 05/06/2013

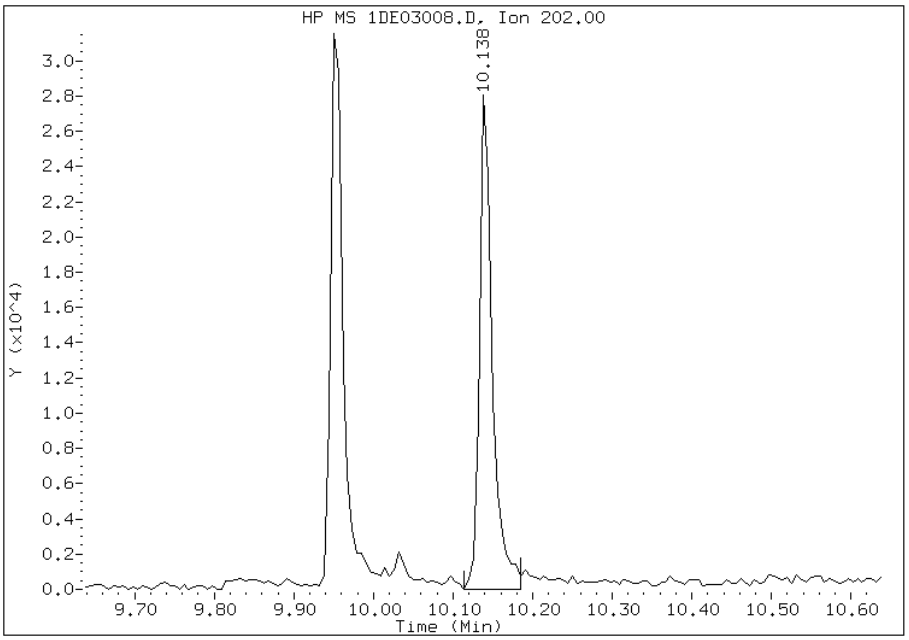
Processing Integration Results

RT: 10.14

Response: 31195

Amount: 1

Conc: 55



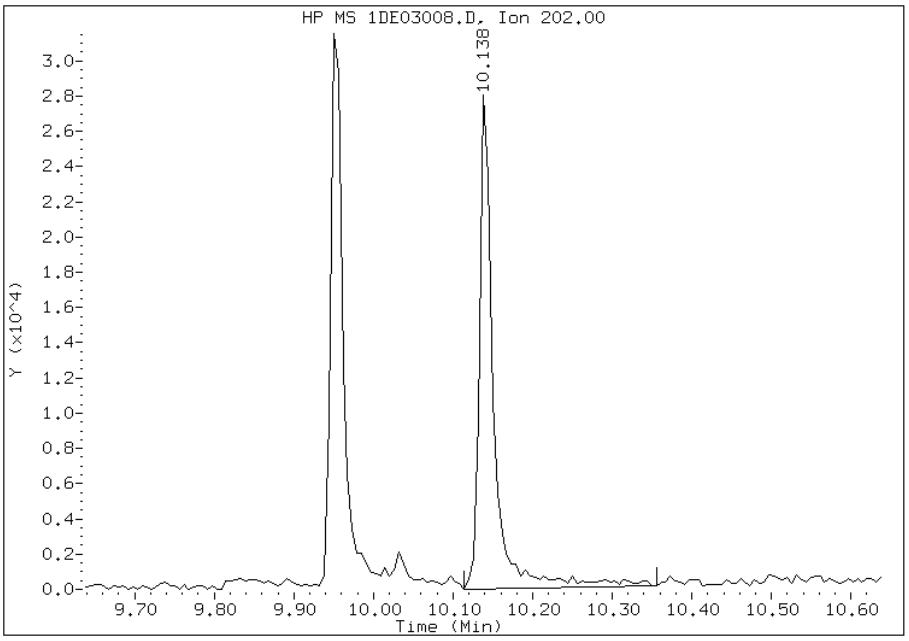
Manual Integration Results

RT: 10.14

Response: 34981

Amount: 1

Conc: 62



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:19
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: CV1224A-CS | Lab Sample ID: 680-89791-38

Matrix: Solid | Lab File ID: 1DE03009.D

Analysis Method: 8270C LL | Date Collected: 04/25/2013 13:15

Extract. Method: 3546 | Date Extracted: 05/02/2013 08:14

Sample wt/vol: 15.06(g) | Date Analyzed: 05/03/2013 12:59

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 21.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137126 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	51	U	51	6.3
120-12-7	Anthracene	11		11	5.3
56-55-3	Benzo[a]anthracene	39		10	4.9
50-32-8	Benzo[a]pyrene	38		13	6.6
205-99-2	Benzo[b]fluoranthene	60		15	7.7
191-24-2	Benzo[g,h,i]perylene	34		25	5.6
207-08-9	Benzo[k]fluoranthene	30		10	4.6
218-01-9	Chrysene	67		11	5.7
53-70-3	Dibenz(a,h)anthracene	8.7	J	25	5.2
206-44-0	Fluoranthene	66		25	5.1
86-73-7	Fluorene	25	U	25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	17	J	25	9.0
90-12-0	1-Methylnaphthalene	36	J	51	5.6
91-57-6	2-Methylnaphthalene	37	J	51	9.0
91-20-3	Naphthalene	29	J	51	5.6
85-01-8	Phenanthrene	51		10	4.9
129-00-0	Pyrene	52		25	4.7

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D050313.b\1DE03009.D
Lab Smp Id: 680-89791-A-38-A Client Smp ID: CV1224A-CS
Inj Date : 03-MAY-2013 12:59
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89791-a-38-a
Misc Info : 680-89791-A-38-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D050313.b\dFASTPAHi.m
Meth Date : 03-May-2013 10:55 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 10
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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.060	Weight Extracted
M	21.277	% 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	6.005	6.004	(1.000)	1398225	40.0000	
* 6	Acenaphthene-d10	164	7.685	7.690	(1.000)	941967	40.0000	
* 9	Phenanthrene-d10	188	8.954	8.953	(1.000)	1556888	40.0000	
$ 13	o-Terphenyl	230	9.254	9.259	(1.033)	119431	5.09123	430
* 17	Chrysene-d12	240	11.252	11.257	(1.000)	1571564	40.0000	
* 22	Perylene-d12	264	13.067	13.066	(1.000)	1563743	40.0000	
2	Naphthalene	128	6.023	6.027	(1.003)	11958	0.34408	29(MH)
3	2-Methylnaphthalene	142	6.734	6.738	(1.121)	9710	0.43281	36(MH)
4	1-Methylnaphthalene	142	6.828	6.826	(1.137)	9000	0.42481	36(MH)
5	Acenaphthylene	152	7.562	7.561	(0.984)	2688	0.06742	5.7
8	Fluorene	166	8.155	8.160	(1.061)	1434	0.04921	4.2(Q)
10	Phenanthrene	178	8.966	8.971	(1.001)	25982	0.60587	51
11	Anthracene	178	9.013	9.012	(1.007)	5601	0.13159	11
12	Carbazole	167	9.154	9.159	(1.022)	3121	0.08313	7.0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	9.953	9.958	(1.112)	34398	0.77948	66
15 Pyrene	202	10.141	10.146	(0.901)	29309	0.62103	52
16 Benzo(a)anthracene	228	11.240	11.239	(0.999)	21214	0.46689	39
18 Chrysene	228	11.275	11.280	(1.002)	33876	0.79514	67
19 Benzo(b)fluoranthene	252	12.527	12.526	(0.959)	27686	0.70876	60(M)
20 Benzo(k)fluoranthene	252	12.550	12.567	(0.960)	14551	0.35359	30(M)
21 Benzo(a)pyrene	252	12.967	12.978	(0.992)	17516	0.44628	38
23 Indeno(1,2,3-cd)pyrene	276	14.642	14.647	(1.120)	8289	0.19806	17(M)
24 Dibenzo(a,h)anthracene	278	14.654	14.670	(1.121)	4060	0.10302	8.7(M)
25 Benzo(g,h,i)perylene	276	15.077	15.081	(1.154)	16117	0.39996	34(MH)

QC Flag Legend

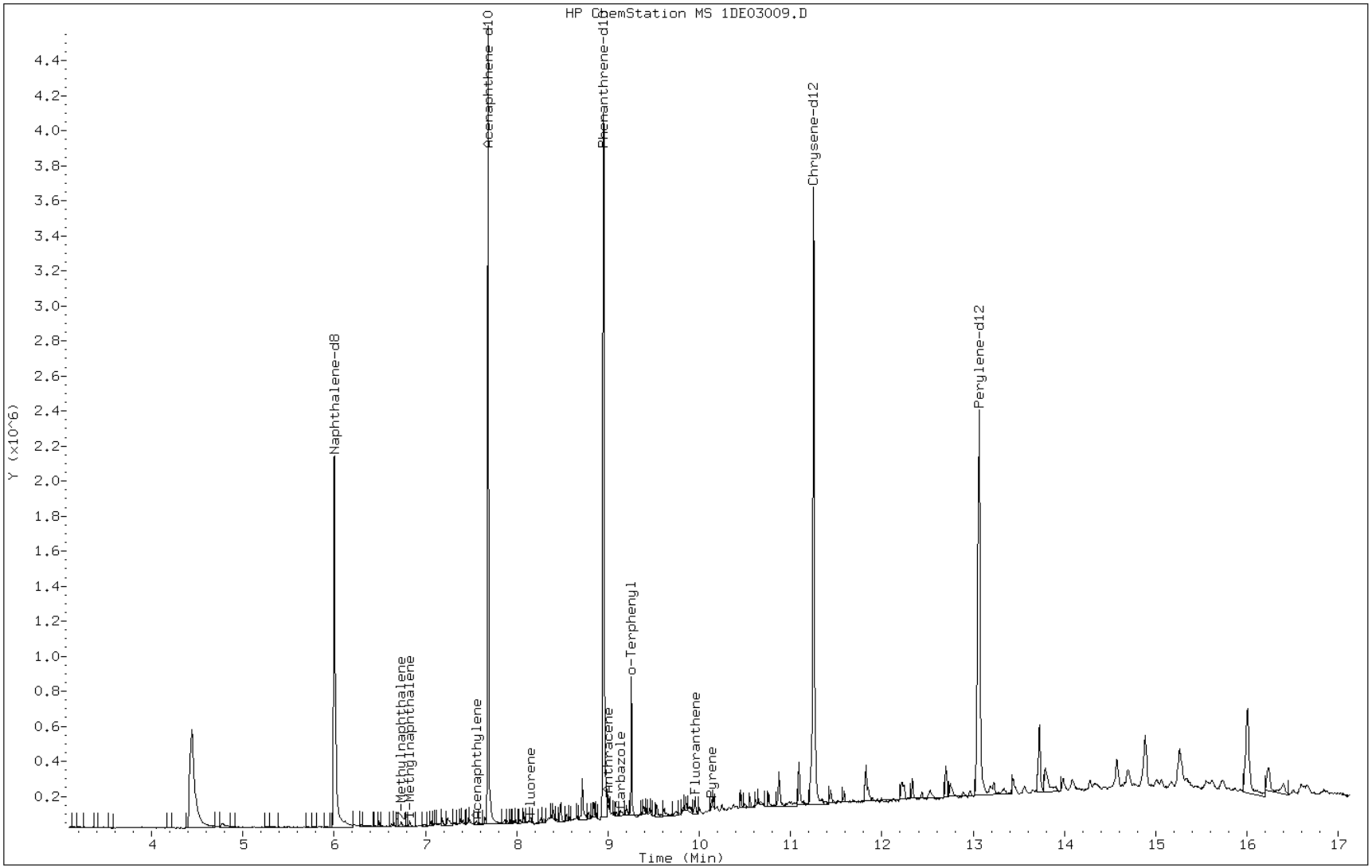
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DE03009.D

Date: 03-MAY-2013 12:59

Client ID: CV1224A-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-38-a Operator: SCC



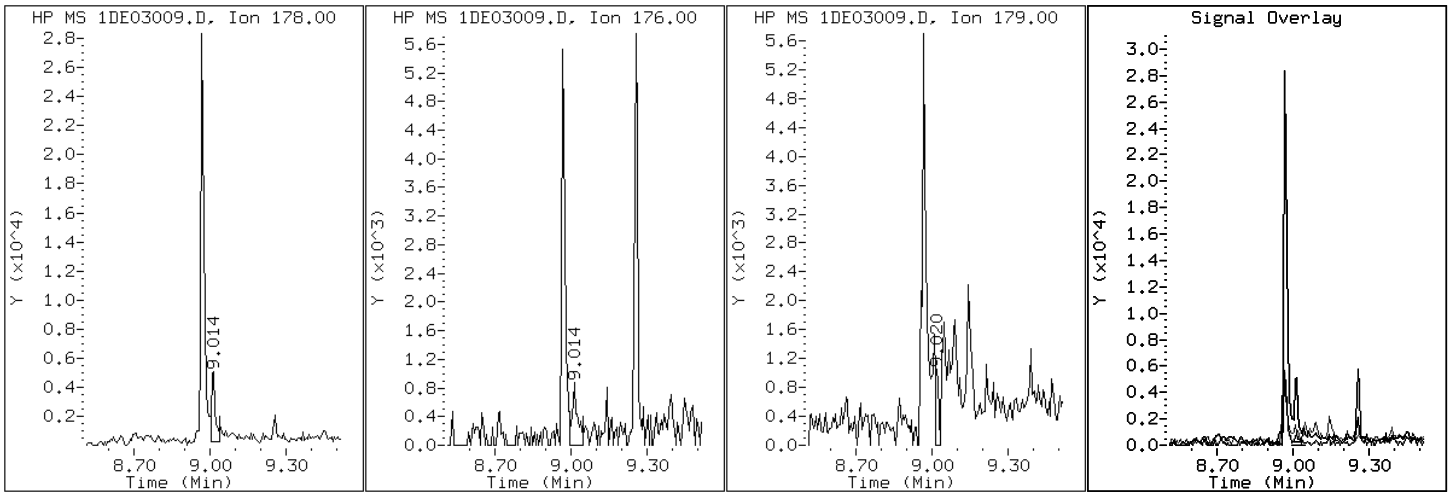
Data File: 1DE03009.D

Date: 03-MAY-2013 12:59

Client ID: CV1224A-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-38-a Operator: SCC

11 Anthracene



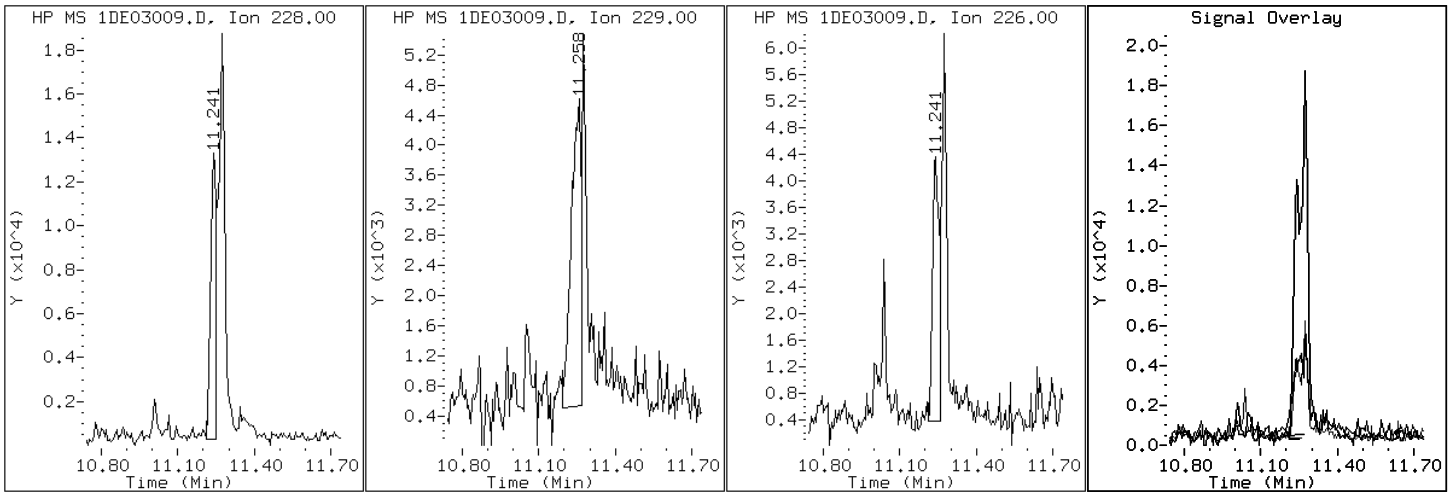
Data File: 1DE03009.D

Date: 03-MAY-2013 12:59

Client ID: CV1224A-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-38-a Operator: SCC

16 Benzo(a)anthracene



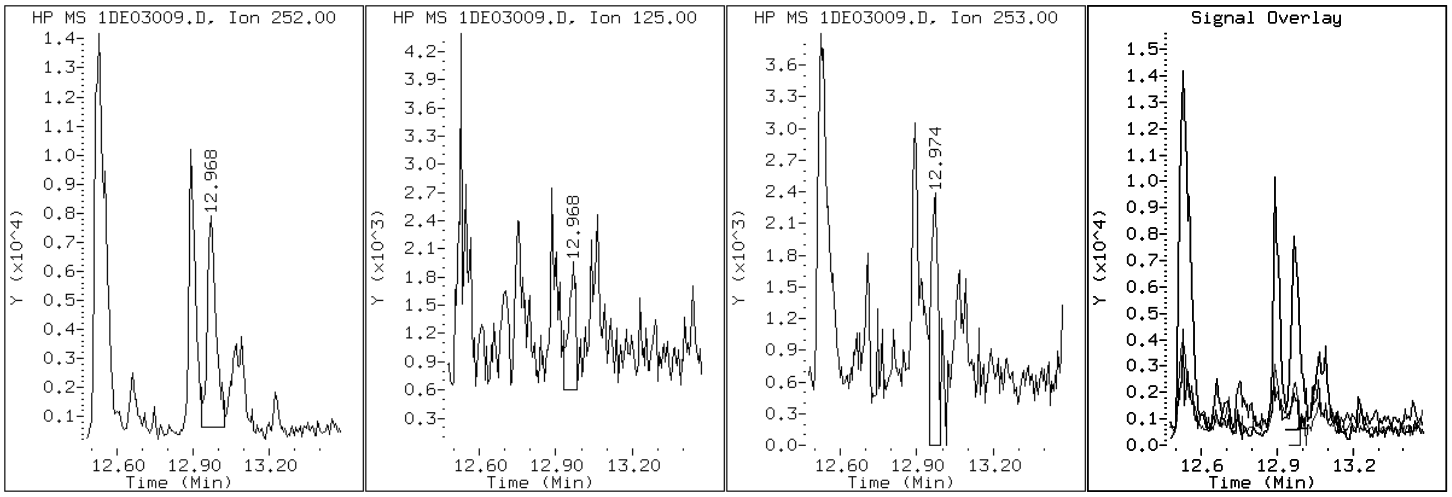
Data File: 1DE03009.D

Date: 03-MAY-2013 12:59

Client ID: CV1224A-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-38-a Operator: SCC

21 Benzo(a)pyrene



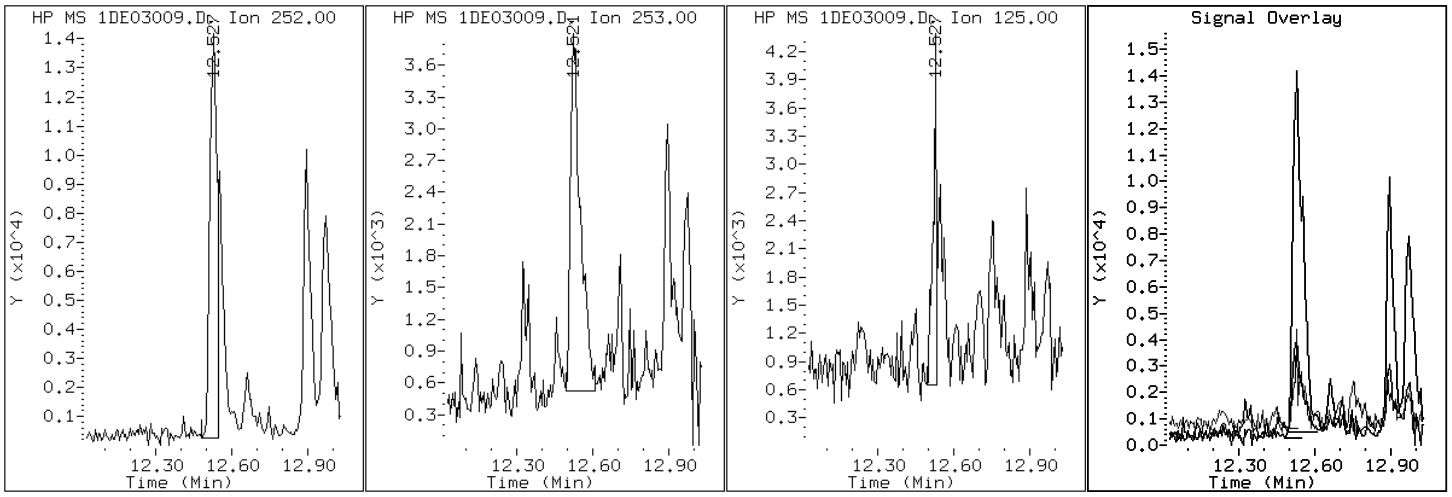
Data File: 1DE03009.D

Date: 03-MAY-2013 12:59

Client ID: CV1224A-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-38-a Operator: SCC

19 Benzo(b)fluoranthene



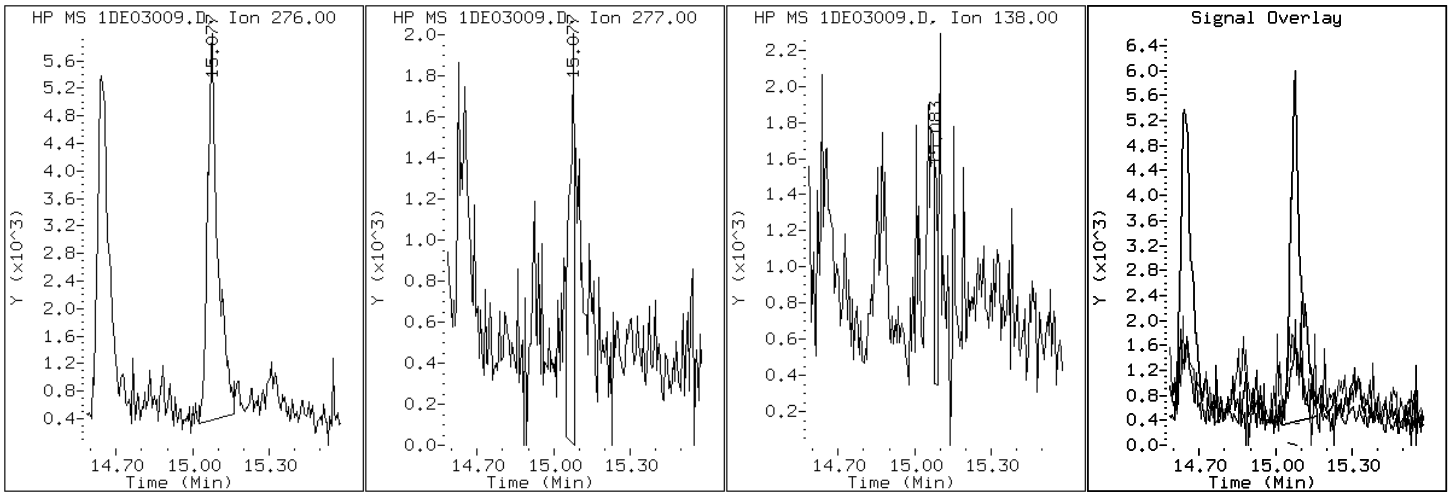
Data File: 1DE03009.D

Date: 03-MAY-2013 12:59

Client ID: CV1224A-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-38-a Operator: SCC

25 Benzo(g,h,i)perylene



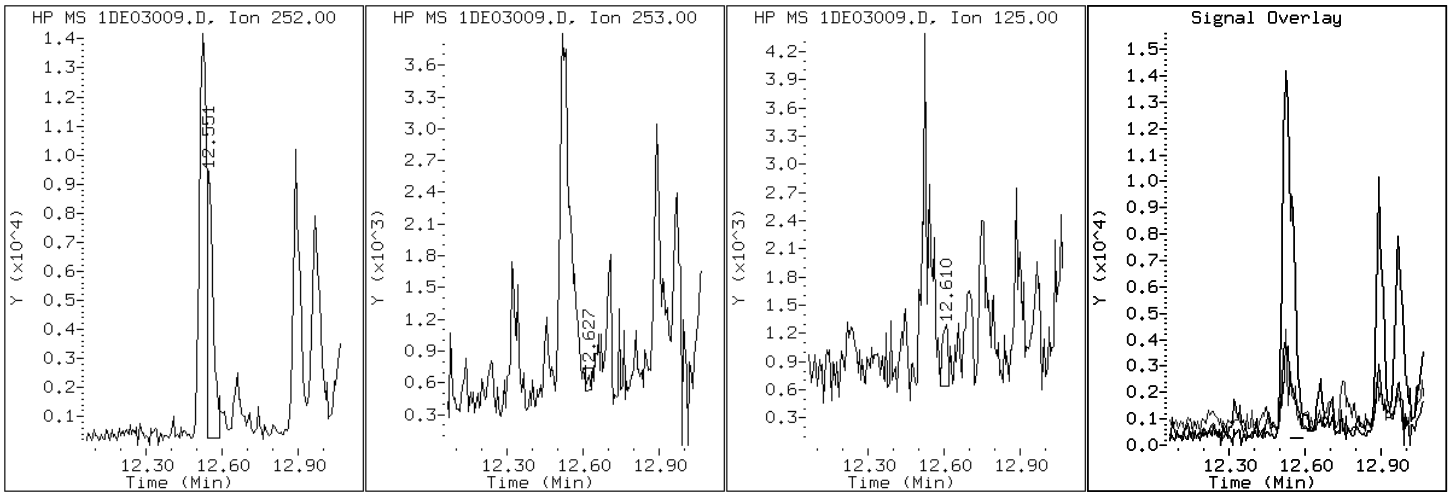
Data File: 1DE03009.D

Date: 03-MAY-2013 12:59

Client ID: CV1224A-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-38-a Operator: SCC

20 Benzo(k)fluoranthene



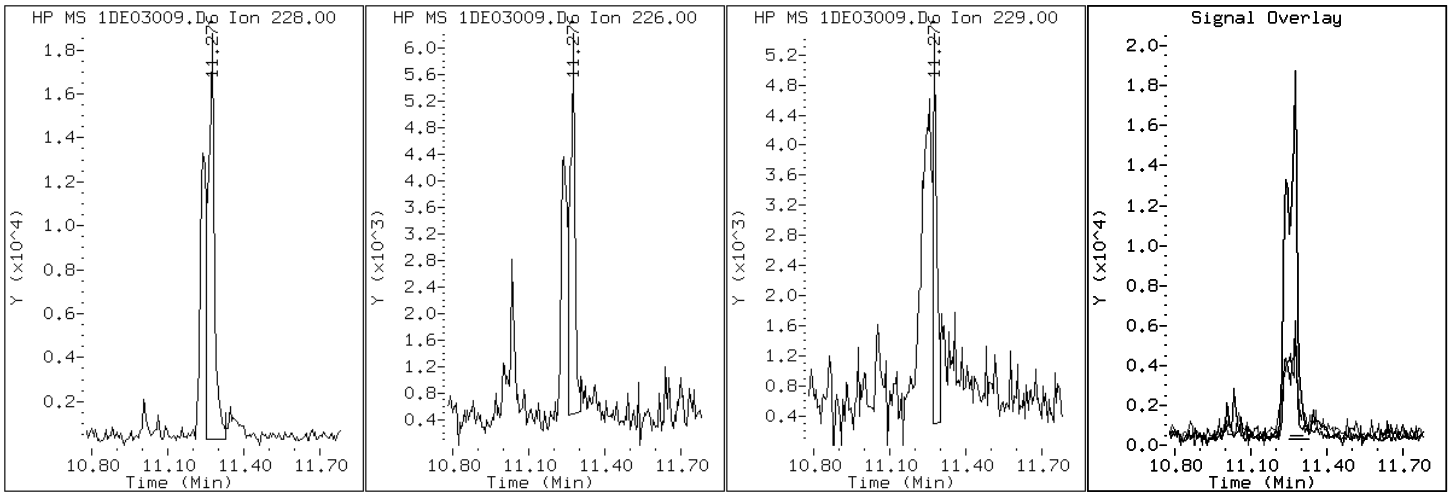
Data File: 1DE03009.D

Date: 03-MAY-2013 12:59

Client ID: CV1224A-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-38-a Operator: SCC

18 Chrysene



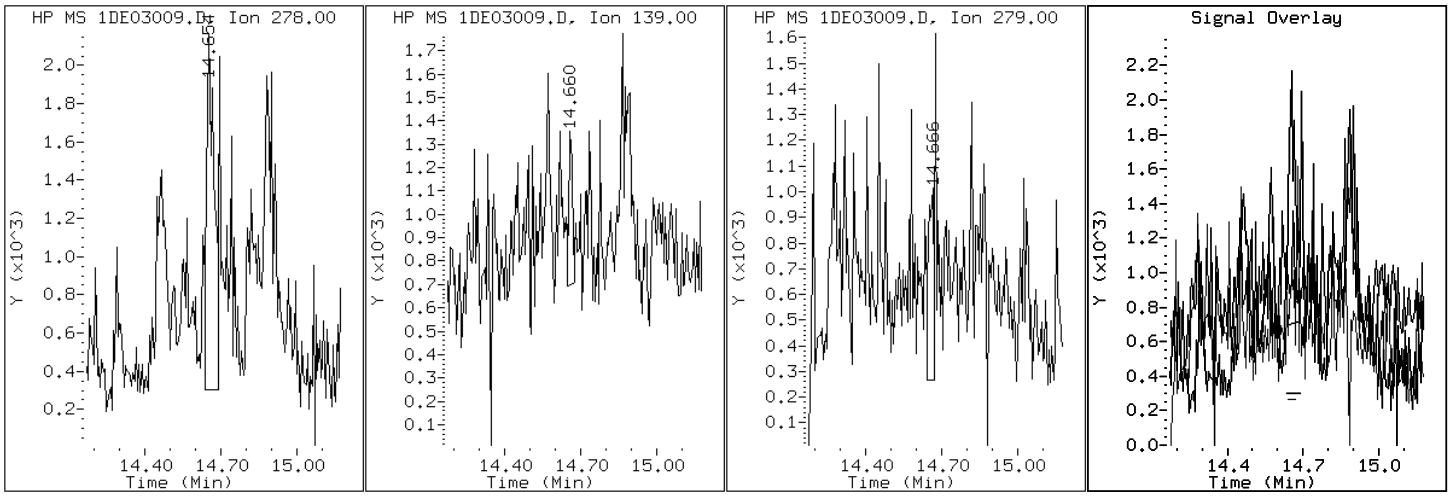
Data File: 1DE03009.D

Date: 03-MAY-2013 12:59

Client ID: CV1224A-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-38-a Operator: SCC

24 Dibenzo(a,h)anthracene



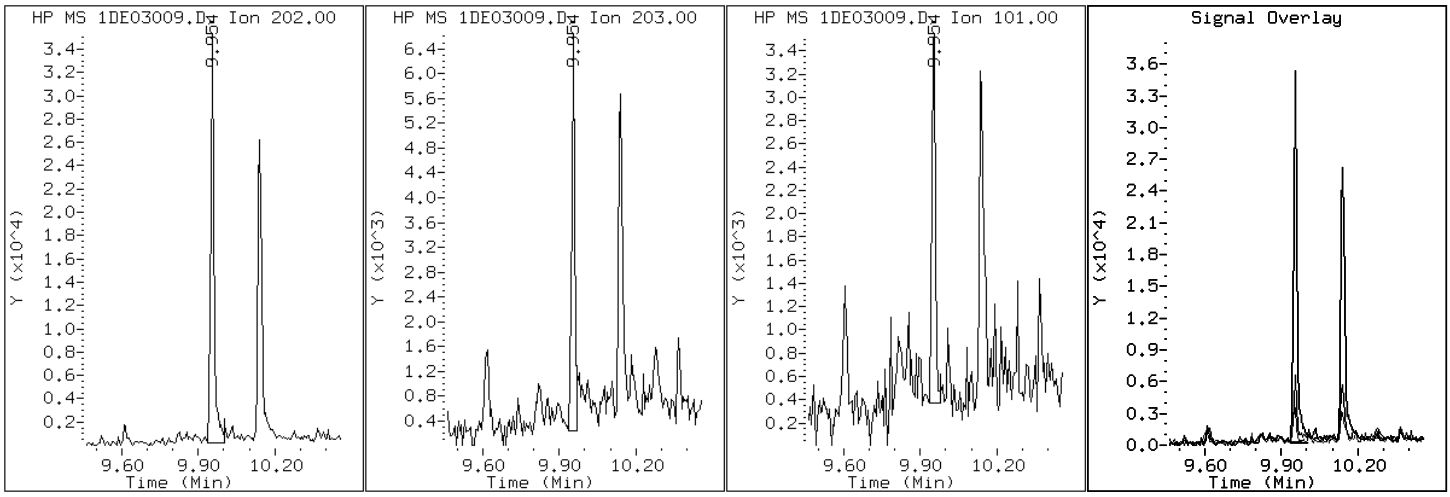
Data File: 1DE03009.D

Date: 03-MAY-2013 12:59

Client ID: CV1224A-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-38-a Operator: SCC

14 Fluoranthene



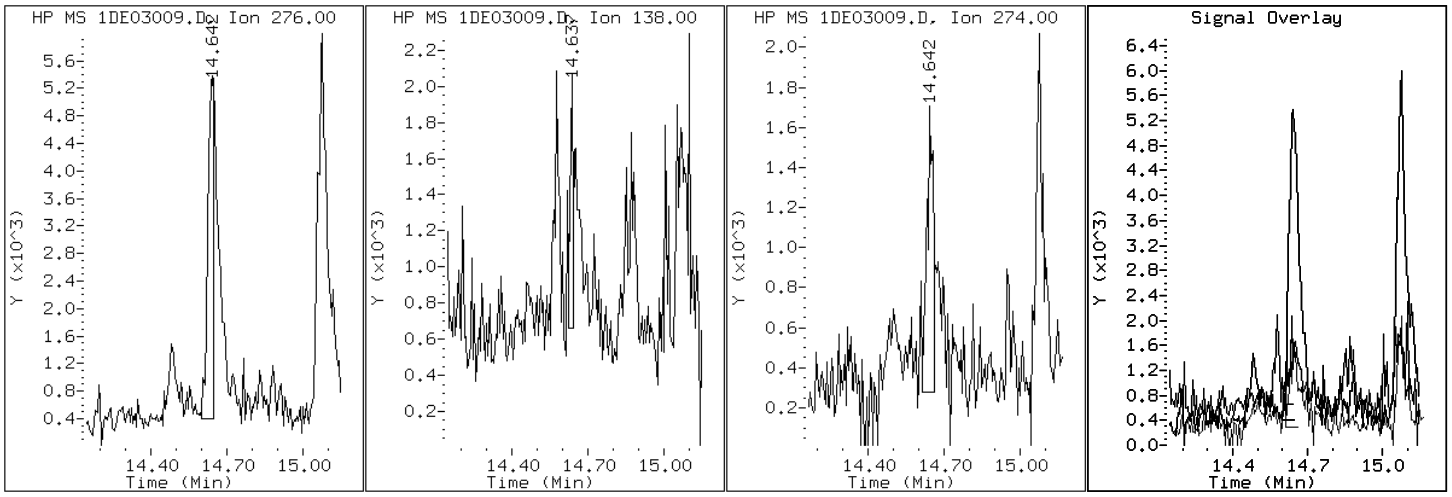
Data File: 1DE03009.D

Date: 03-MAY-2013 12:59

Client ID: CV1224A-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-38-a Operator: SCC

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



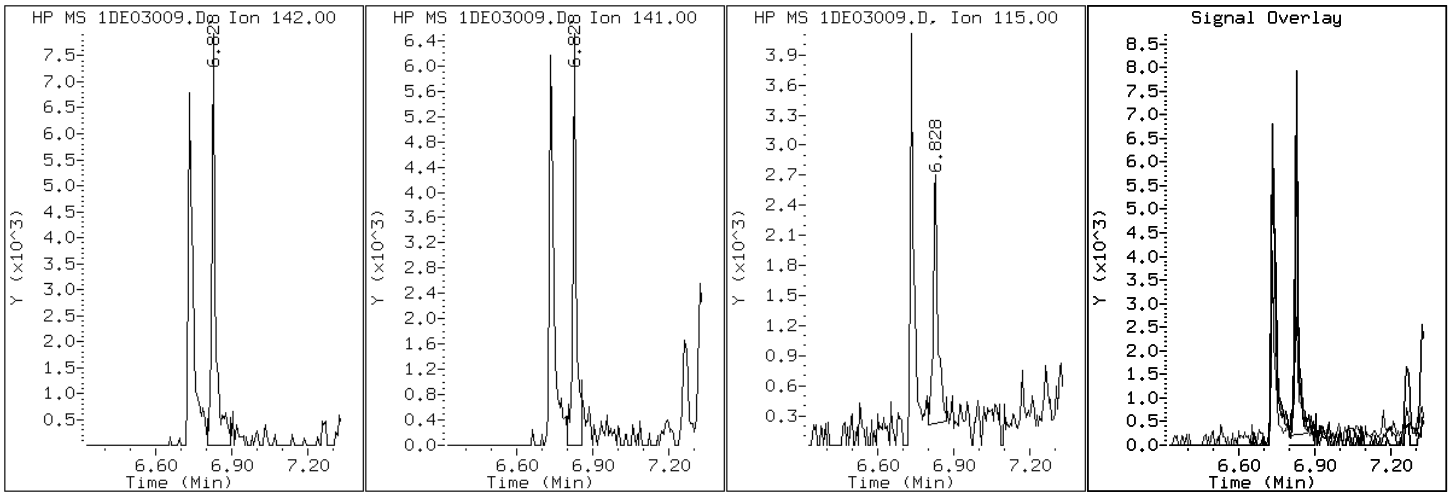
Data File: 1DE03009.D

Date: 03-MAY-2013 12:59

Client ID: CV1224A-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-38-a Operator: SCC

4 1-Methylnaphthalene



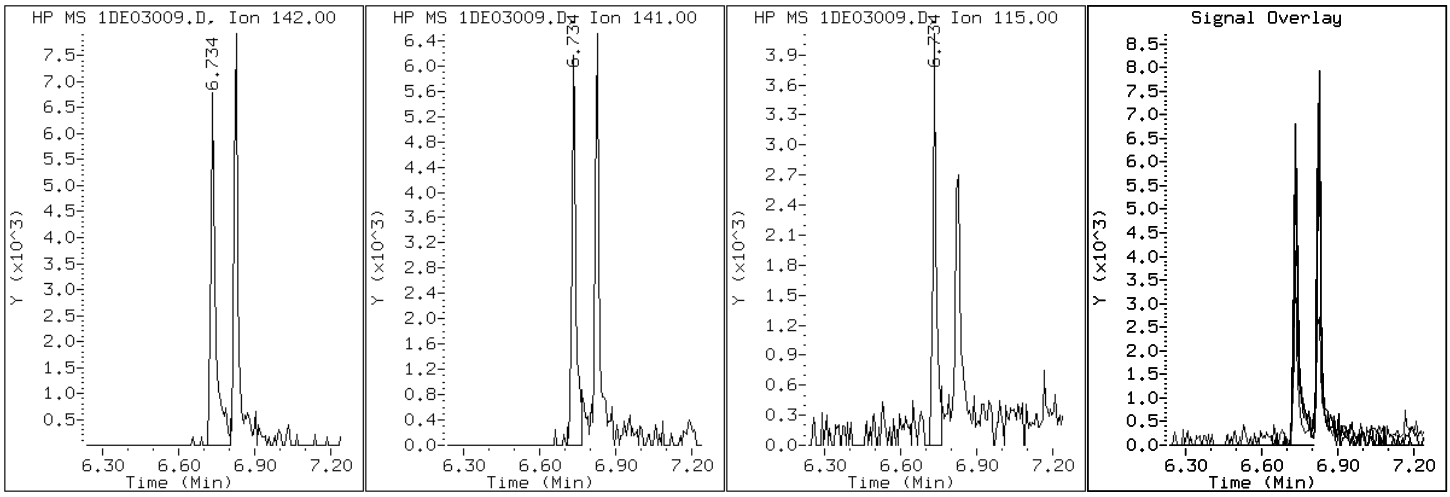
Data File: 1DE03009.D

Date: 03-MAY-2013 12:59

Client ID: CV1224A-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-38-a Operator: SCC

3 2-Methylnaphthalene



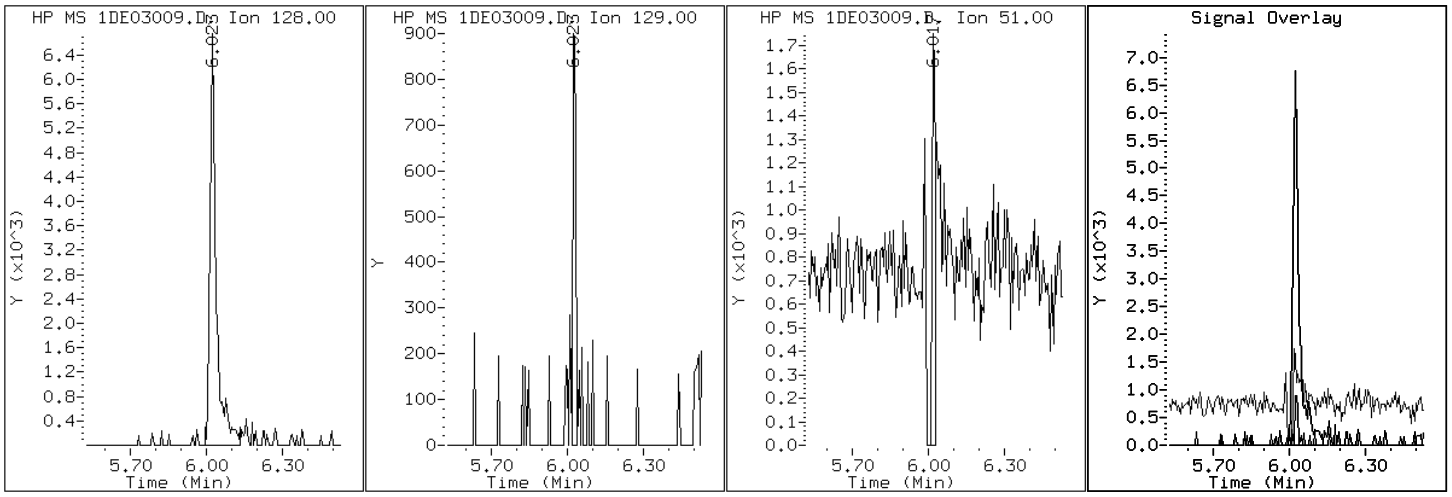
Data File: 1DE03009.D

Date: 03-MAY-2013 12:59

Client ID: CV1224A-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-38-a Operator: SCC

2 Naphthalene



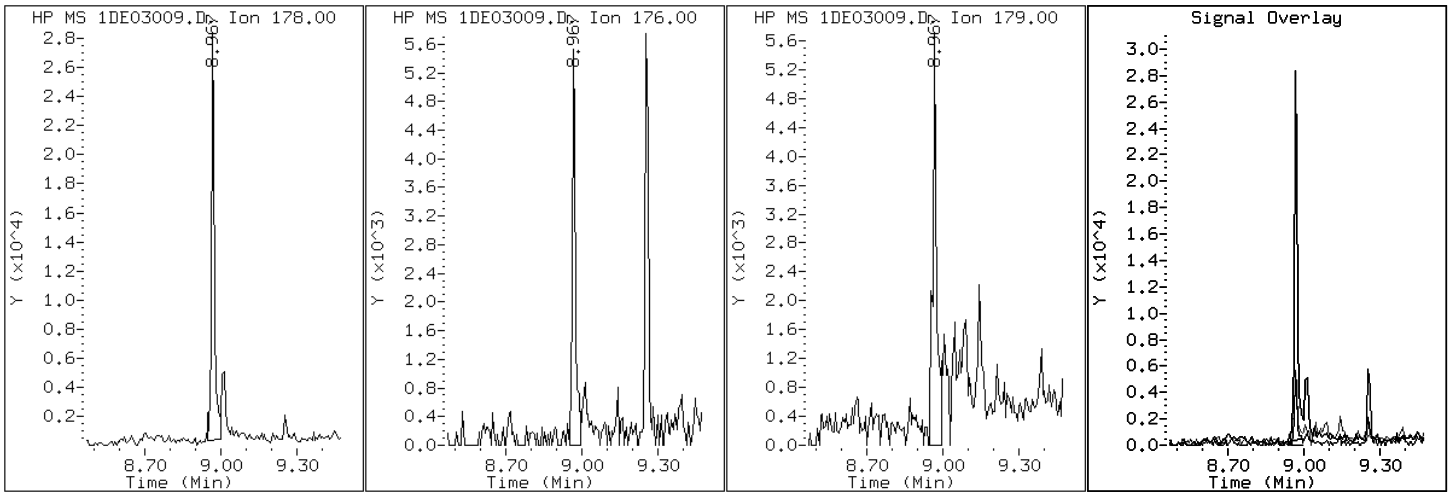
Data File: 1DE03009.D

Date: 03-MAY-2013 12:59

Client ID: CV1224A-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-38-a Operator: SCC

10 Phenanthrene



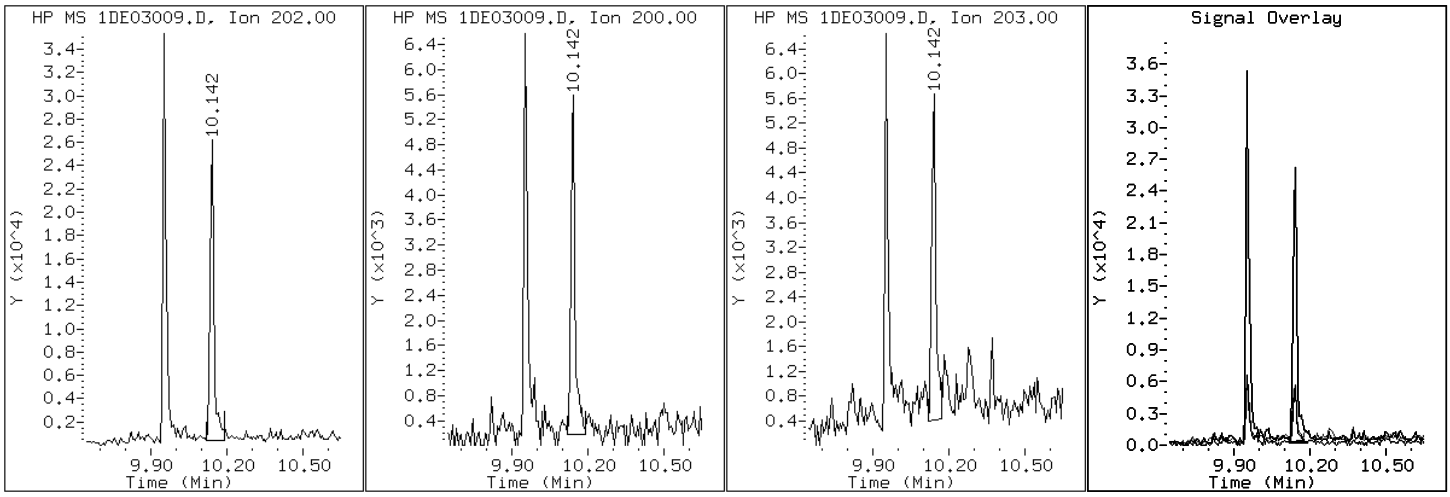
Data File: 1DE03009.D

Date: 03-MAY-2013 12:59

Client ID: CV1224A-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-38-a Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DE03009.D
Inj. Date and Time: 03-MAY-2013 12:59
Instrument ID: BSMSD.i
Client ID: CV1224A-CS
Compound: 19 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/06/2013

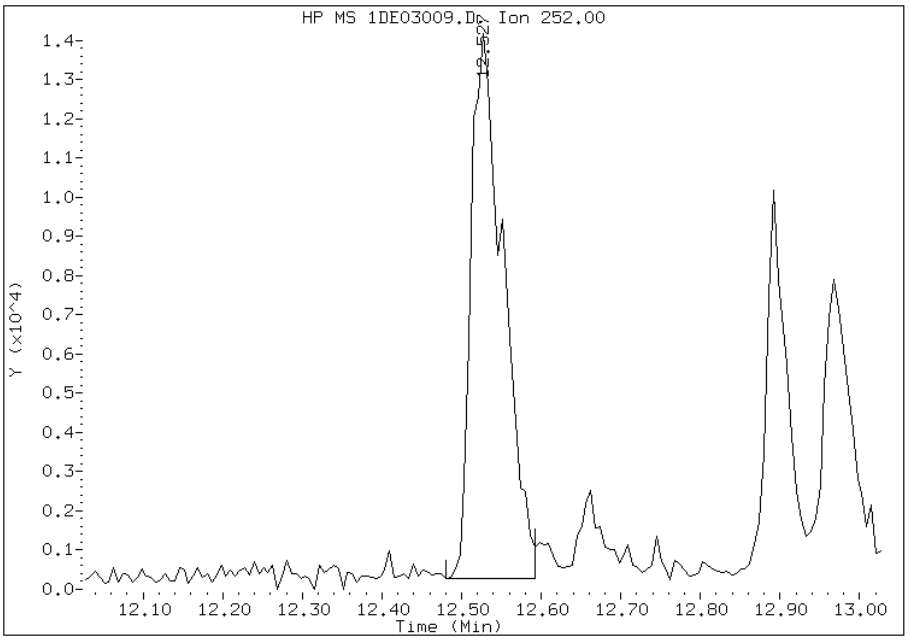
Processing Integration Results

RT: 12.53

Response: 39309

Amount: 1

Conc: 85



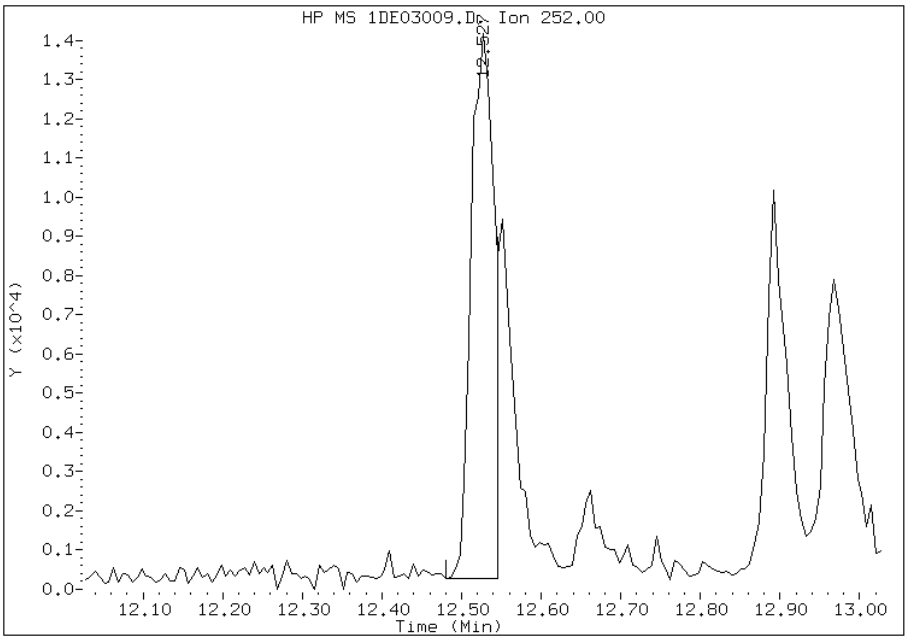
Manual Integration Results

RT: 12.53

Response: 27686

Amount: 1

Conc: 60



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:25
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DE03009.D
Inj. Date and Time: 03-MAY-2013 12:59
Instrument ID: BSMSD.i
Client ID: CV1224A-CS
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/06/2013

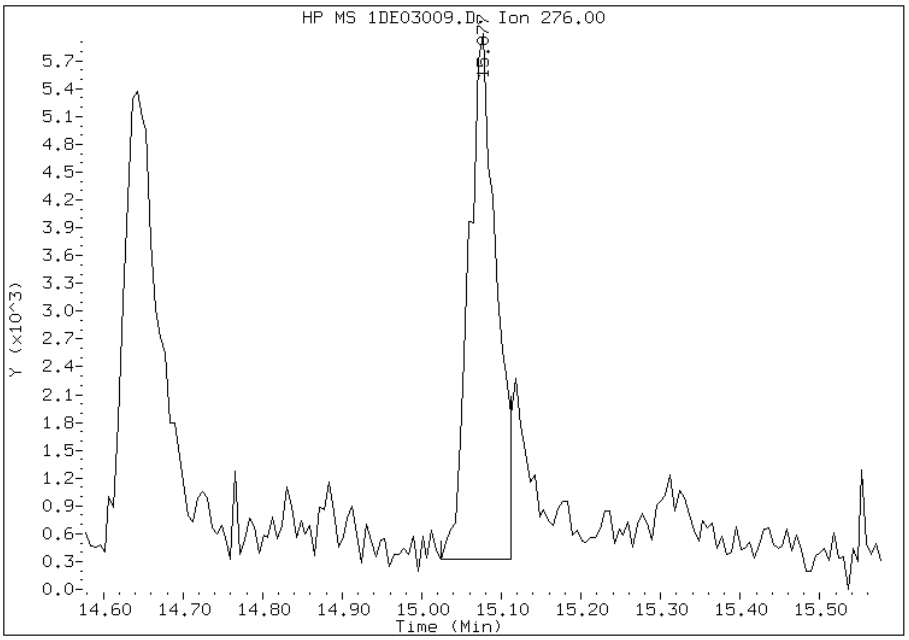
Processing Integration Results

RT: 15.08

Response: 13943

Amount: 0

Conc: 29



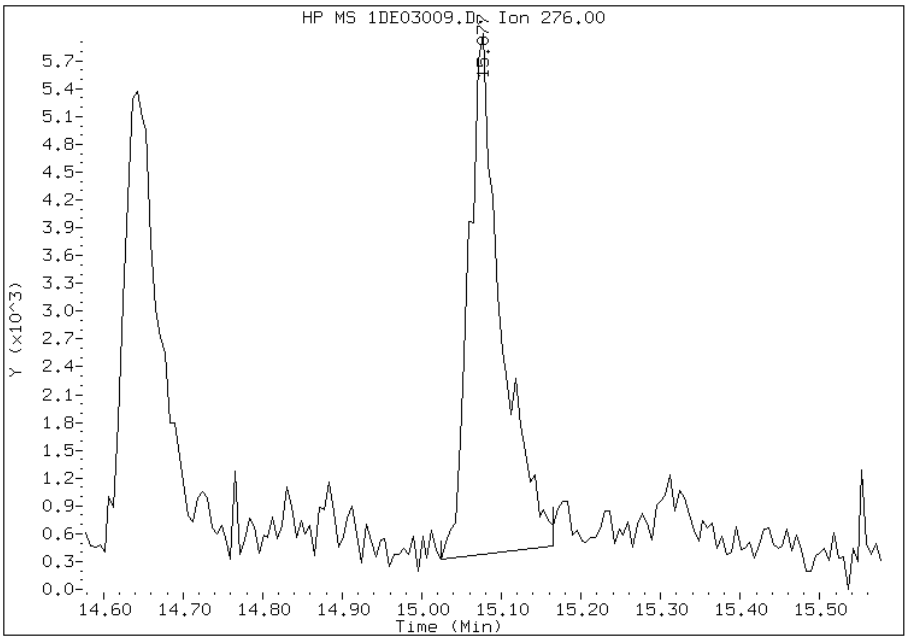
Manual Integration Results

RT: 15.08

Response: 16117

Amount: 0

Conc: 34



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:26
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03009.D
Inj. Date and Time: 03-MAY-2013 12:59
Instrument ID: BSMSD.i
Client ID: CV1224A-CS
Compound: 20 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/06/2013

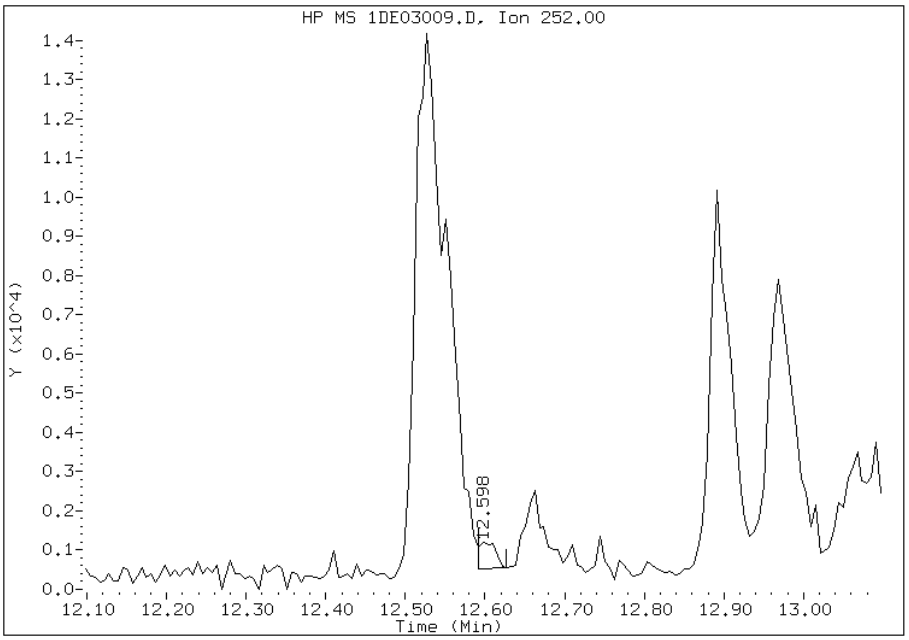
Processing Integration Results

RT: 12.60

Response: 1004

Amount: 0

Conc: 2



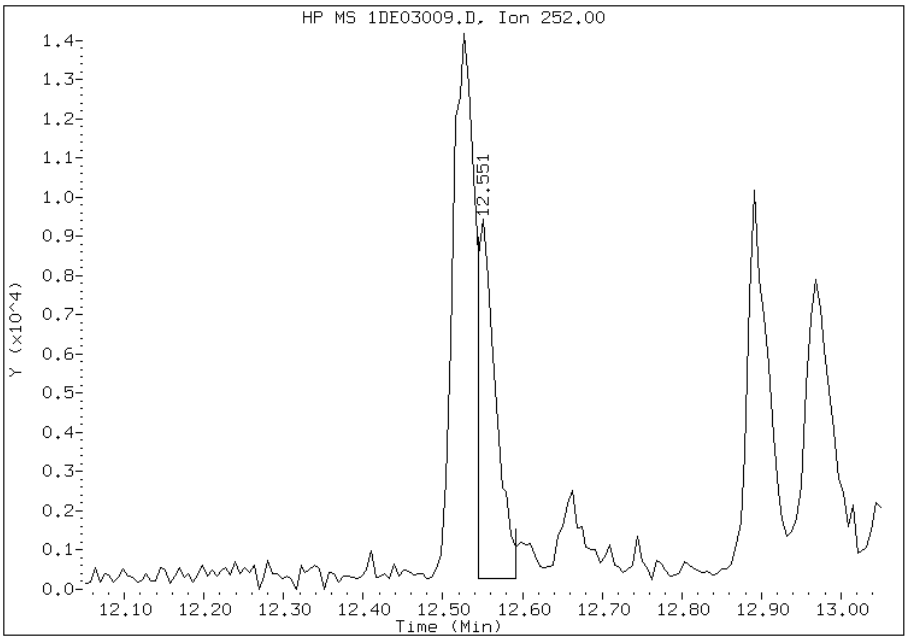
Manual Integration Results

RT: 12.55

Response: 14551

Amount: 0

Conc: 30



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:25
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1DE03009.D
Inj. Date and Time: 03-MAY-2013 12:59
Instrument ID: BSMSD.i
Client ID: CV1224A-CS
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/06/2013

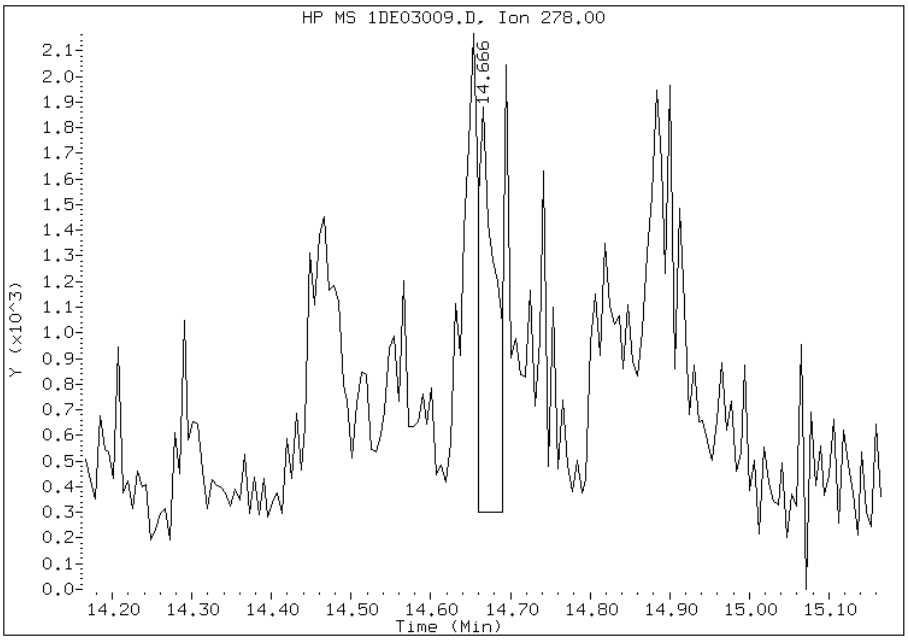
Processing Integration Results

RT: 14.67

Response: 2302

Amount: 0

Conc: 5



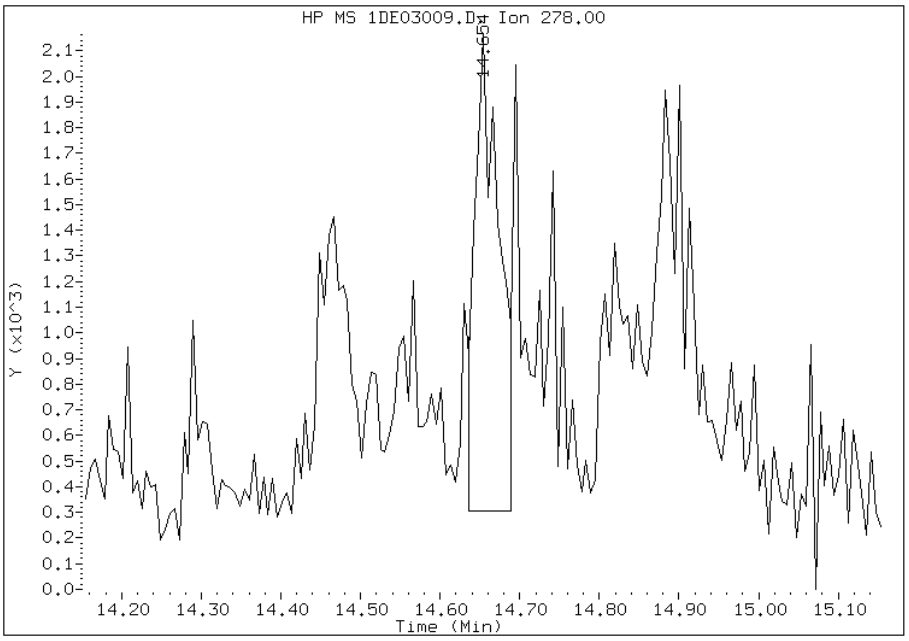
Manual Integration Results

RT: 14.65

Response: 4060

Amount: 0

Conc: 9



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:27
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03009.D
Inj. Date and Time: 03-MAY-2013 12:59
Instrument ID: BSMSD.i
Client ID: CV1224A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/06/2013

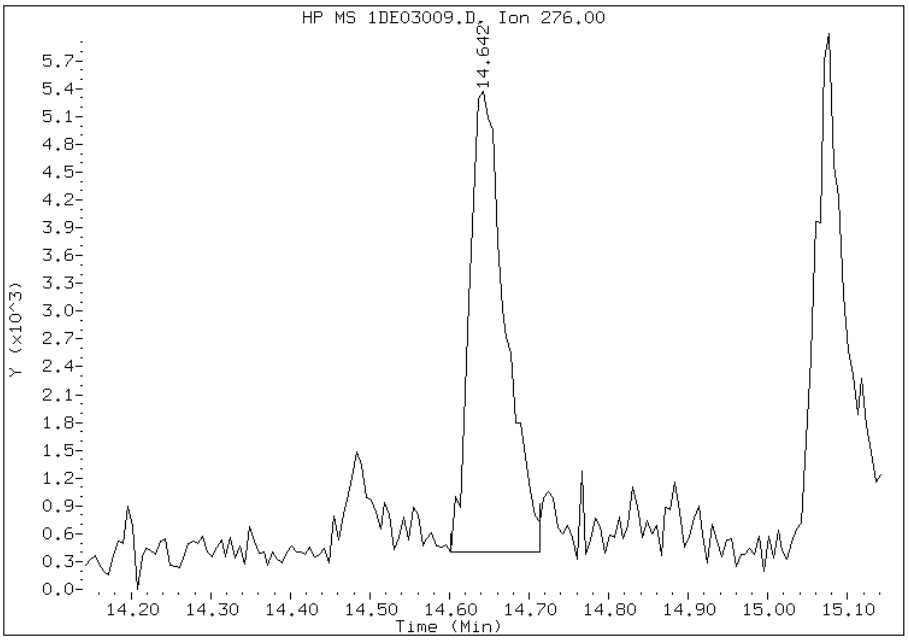
Processing Integration Results

RT: 14.64

Response: 15409

Amount: 0

Conc: 31



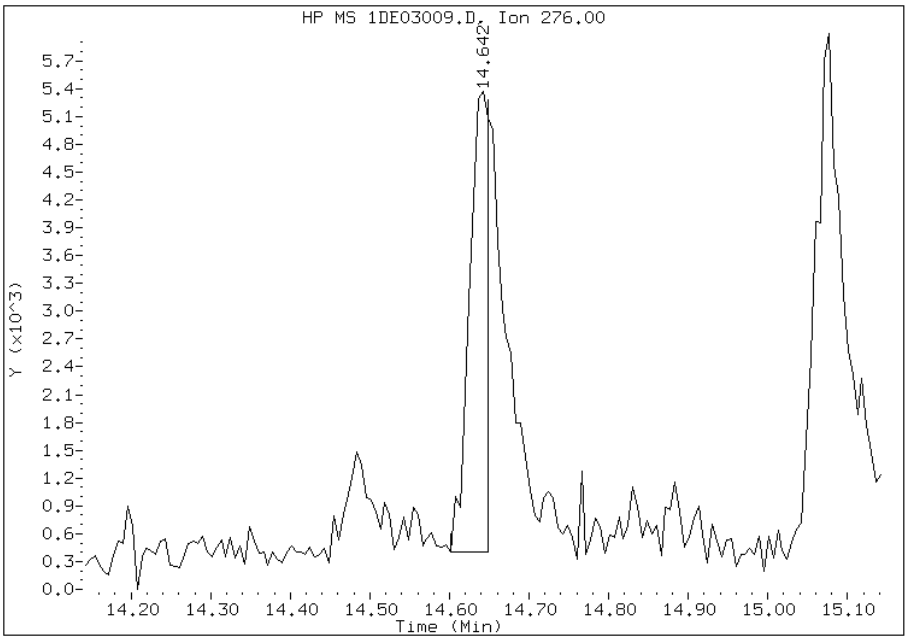
Manual Integration Results

RT: 14.64

Response: 8289

Amount: 0

Conc: 17



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:27
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DE03009.D
Inj. Date and Time: 03-MAY-2013 12:59
Instrument ID: BSMSD.i
Client ID: CV1224A-CS
Compound: 4 1-Methylnaphthalene
CAS #: 90-12-0
Report Date: 05/06/2013

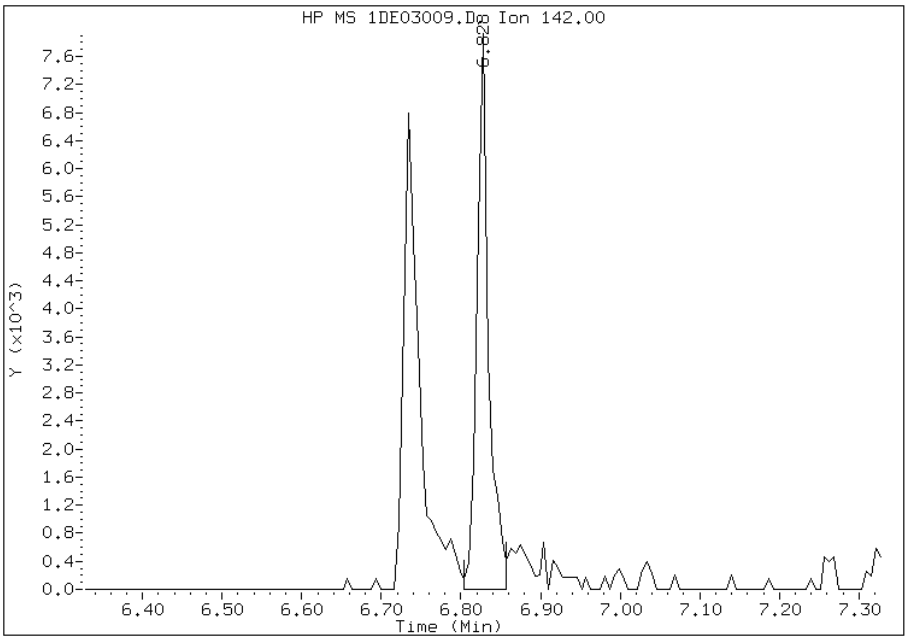
Processing Integration Results

RT: 6.83

Response: 8065

Amount: 0

Conc: 32



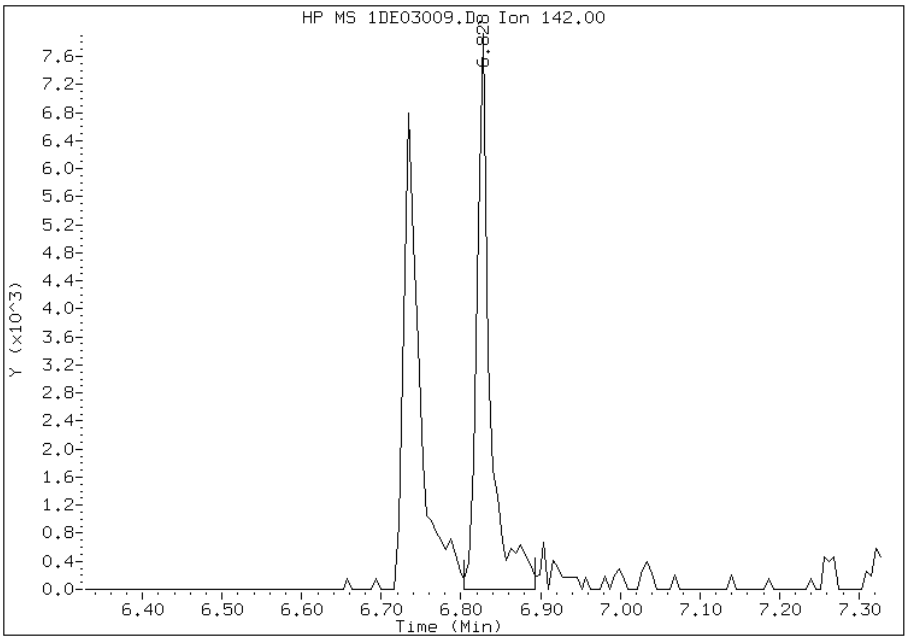
Manual Integration Results

RT: 6.83

Response: 9000

Amount: 0

Conc: 36



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:25
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03009.D
Inj. Date and Time: 03-MAY-2013 12:59
Instrument ID: BSMSD.i
Client ID: CV1224A-CS
Compound: 3 2-Methylnaphthalene
CAS #: 91-57-6
Report Date: 05/06/2013

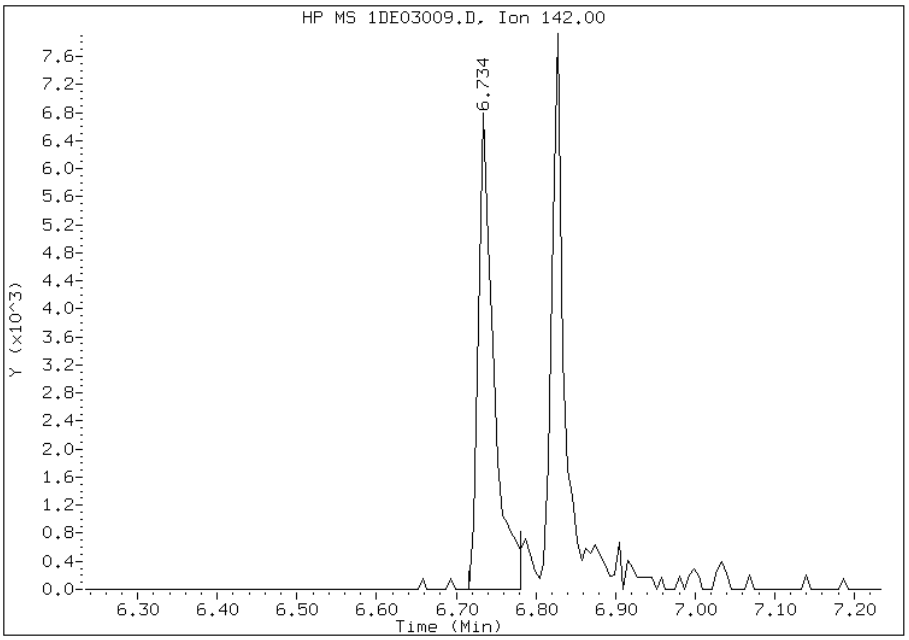
Processing Integration Results

RT: 6.73

Response: 9143

Amount: 0

Conc: 34



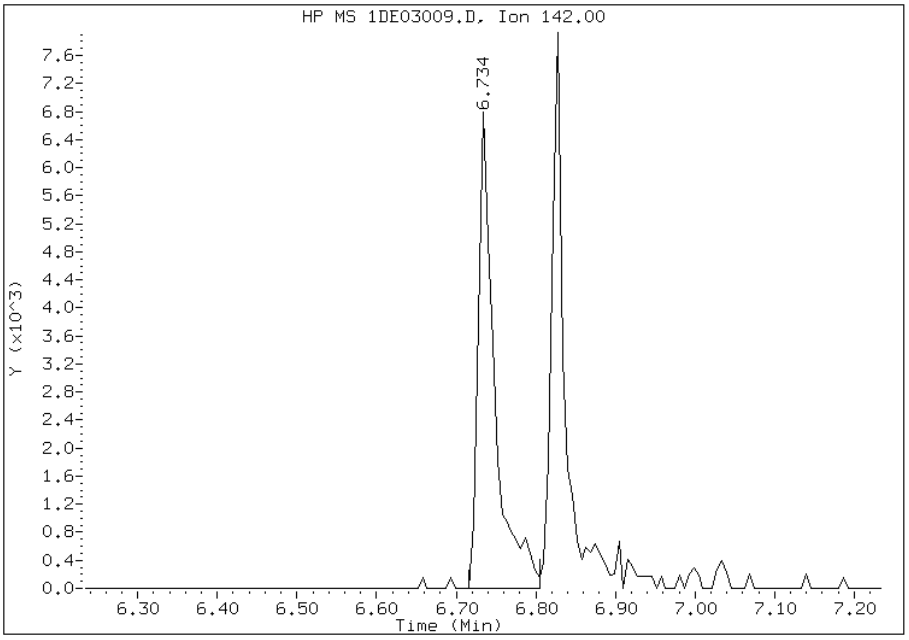
Manual Integration Results

RT: 6.73

Response: 9710

Amount: 0

Conc: 37



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:24
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03009.D
Inj. Date and Time: 03-MAY-2013 12:59
Instrument ID: BSMSD.i
Client ID: CV1224A-CS
Compound: 2 Naphthalene
CAS #: 91-20-3
Report Date: 05/06/2013

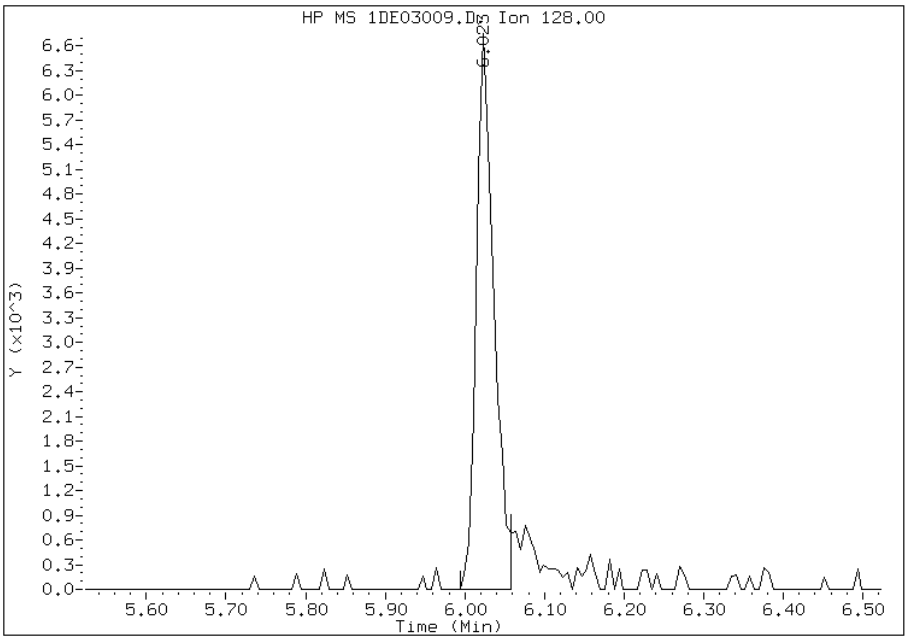
Processing Integration Results

RT: 6.02

Response: 10333

Amount: 0

Conc: 25



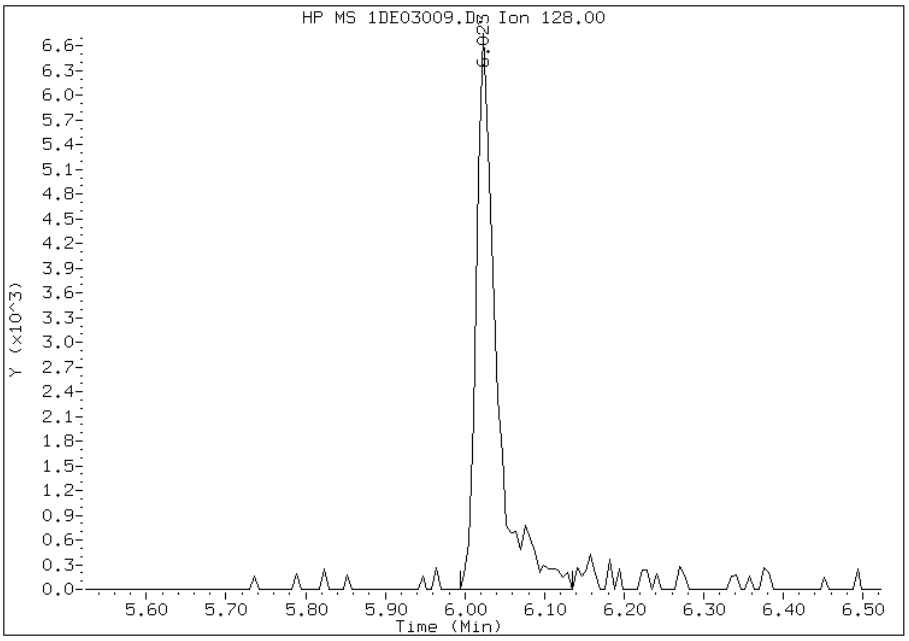
Manual Integration Results

RT: 6.02

Response: 11958

Amount: 0

Conc: 29



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:33
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: CV1224B-CS | Lab Sample ID: 680-89791-39

Matrix: Solid | Lab File ID: 1DE03010.D

Analysis Method: 8270C LL | Date Collected: 04/25/2013 13:25

Extract. Method: 3546 | Date Extracted: 05/02/2013 08:14

Sample wt/vol: 14.93(g) | Date Analyzed: 05/03/2013 13:21

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.: 137126 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	52	U	52	6.5
120-12-7	Anthracene	11		11	5.5
56-55-3	Benzo[a]anthracene	38		10	5.1
50-32-8	Benzo[a]pyrene	44		14	6.8
205-99-2	Benzo[b]fluoranthene	64		16	7.9
191-24-2	Benzo[g,h,i]perylene	36		26	5.7
207-08-9	Benzo[k]fluoranthene	32		10	4.7
218-01-9	Chrysene	70		12	5.9
53-70-3	Dibenz(a,h)anthracene	14	J	26	5.3
206-44-0	Fluoranthene	79		26	5.2
86-73-7	Fluorene	5.7	J	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	20	J	26	9.3
90-12-0	1-Methylnaphthalene	32	J	52	5.7
91-57-6	2-Methylnaphthalene	31	J	52	9.3
91-20-3	Naphthalene	29	J	52	5.7
85-01-8	Phenanthrene	53		10	5.1
129-00-0	Pyrene	60		26	4.8

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D050313.b\1DE03010.D
Lab Smp Id: 680-89791-A-39-A Client Smp ID: CV1224B-CS
Inj Date : 03-MAY-2013 13:21
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89791-a-39-a
Misc Info : 680-89791-A-39-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D050313.b\dFASTPAHi.m
Meth Date : 03-May-2013 10:55 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 11
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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.930	Weight Extracted
M	22.892	% 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	6.005	6.004	(1.000)	1495129	40.0000	
* 6	Acenaphthene-d10	164	7.691	7.690	(1.000)	997582	40.0000	
* 9	Phenanthrene-d10	188	8.954	8.953	(1.000)	1638001	40.0000	
$ 13	o-Terphenyl	230	9.254	9.259	(1.033)	103910	4.21023	360
* 17	Chrysene-d12	240	11.258	11.257	(1.000)	1661540	40.0000	
* 22	Perylene-d12	264	13.067	13.066	(1.000)	1769230	40.0000	
2	Naphthalene	128	6.023	6.027	(1.003)	12594	0.33889	29(MH)
3	2-Methylnaphthalene	142	6.733	6.738	(1.121)	8682	0.36191	31(M)
4	1-Methylnaphthalene	142	6.827	6.826	(1.137)	8344	0.36832	32(M)
5	Acenaphthylene	152	7.562	7.561	(0.983)	2075	0.04915	4.3
8	Fluorene	166	8.155	8.160	(1.060)	2040	0.06610	5.7
10	Phenanthrene	178	8.966	8.971	(1.001)	27493	0.60935	53
11	Anthracene	178	9.013	9.012	(1.007)	5664	0.12648	11
12	Carbazole	167	9.154	9.159	(1.022)	3986	0.10091	8.8

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	9.953	9.958	(1.112)	42446	0.91422	79
15 Pyrene	202	10.141	10.146	(0.901)	34332	0.68807	60
16 Benzo(a)anthracene	228	11.246	11.239	(0.999)	21244	0.44223	38
18 Chrysene	228	11.275	11.280	(1.002)	36467	0.80960	70
19 Benzo(b)fluoranthene	252	12.527	12.526	(0.959)	32581	0.73720	64
20 Benzo(k)fluoranthene	252	12.550	12.567	(0.960)	16887	0.36269	32
21 Benzo(a)pyrene	252	12.967	12.978	(0.992)	22594	0.50880	44
23 Indeno(1,2,3-cd)pyrene	276	14.648	14.647	(1.121)	10752	0.22707	20(M)
24 Dibenzo(a,h)anthracene	278	14.659	14.670	(1.122)	7077	0.15872	14
25 Benzo(g,h,i)perylene	276	15.082	15.081	(1.154)	18809	0.41255	36(M)

QC Flag Legend

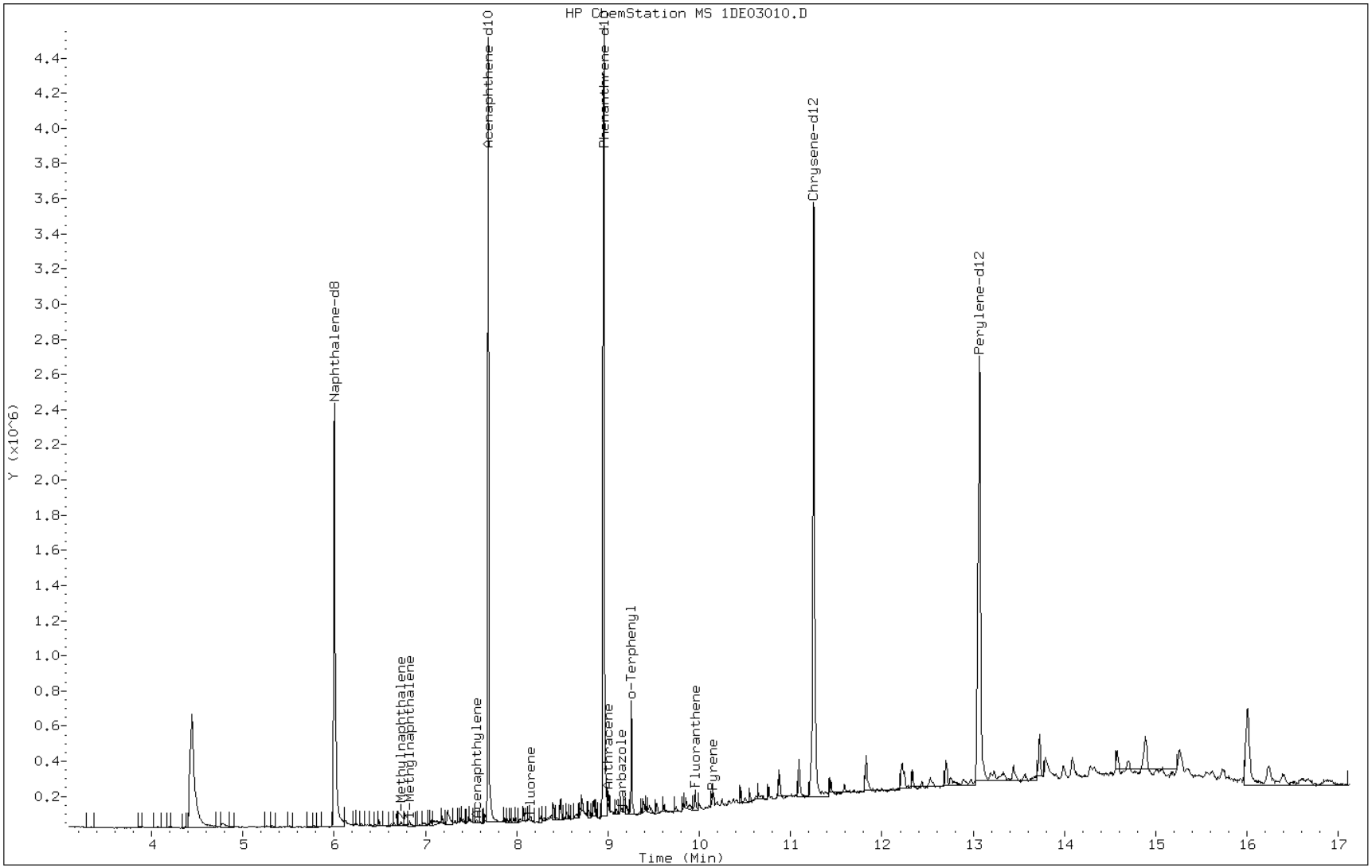
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DE03010.D

Date: 03-MAY-2013 13:21

Client ID: CV1224B-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-39-a Operator: SCC



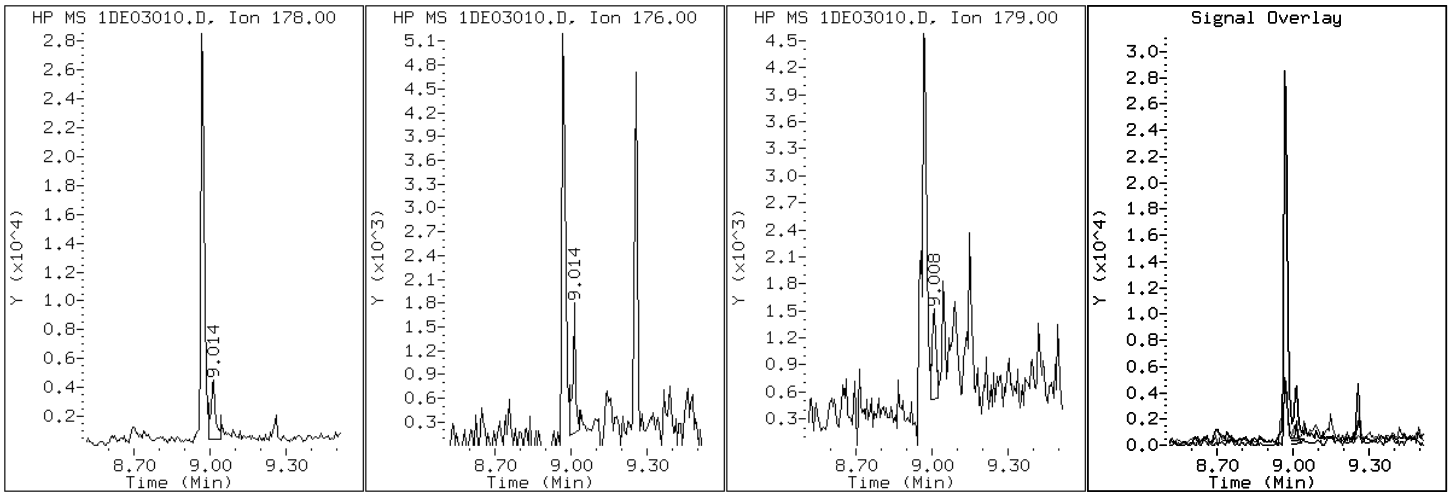
Data File: 1DE03010.D

Date: 03-MAY-2013 13:21

Client ID: CV1224B-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-39-a Operator: SCC

11 Anthracene



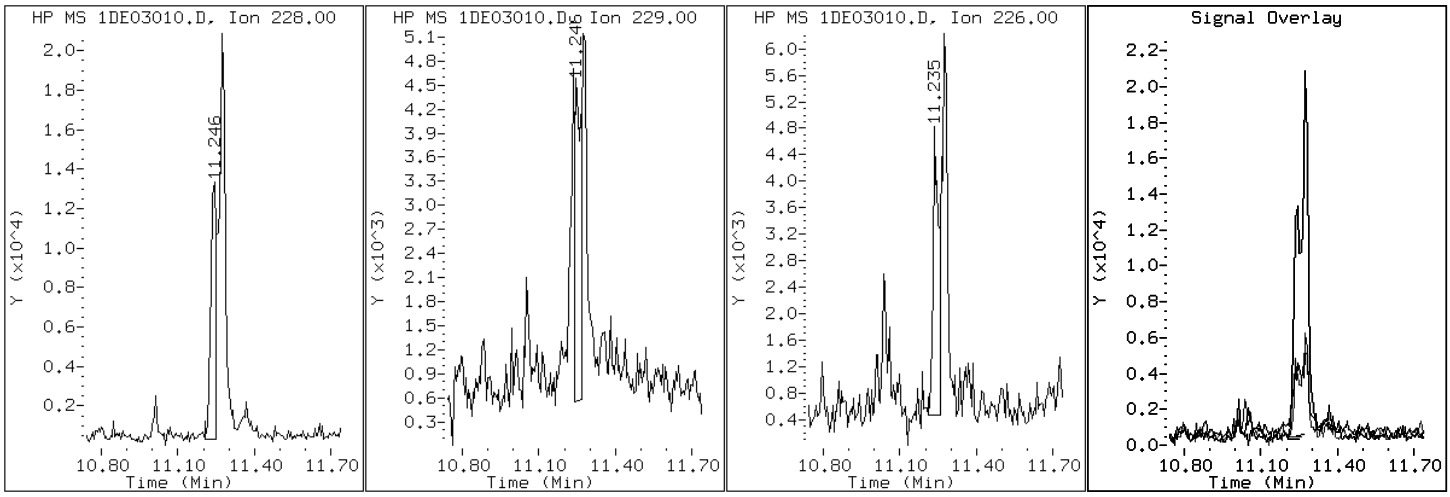
Data File: 1DE03010.D

Date: 03-MAY-2013 13:21

Client ID: CV1224B-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-39-a Operator: SCC

16 Benzo(a)anthracene



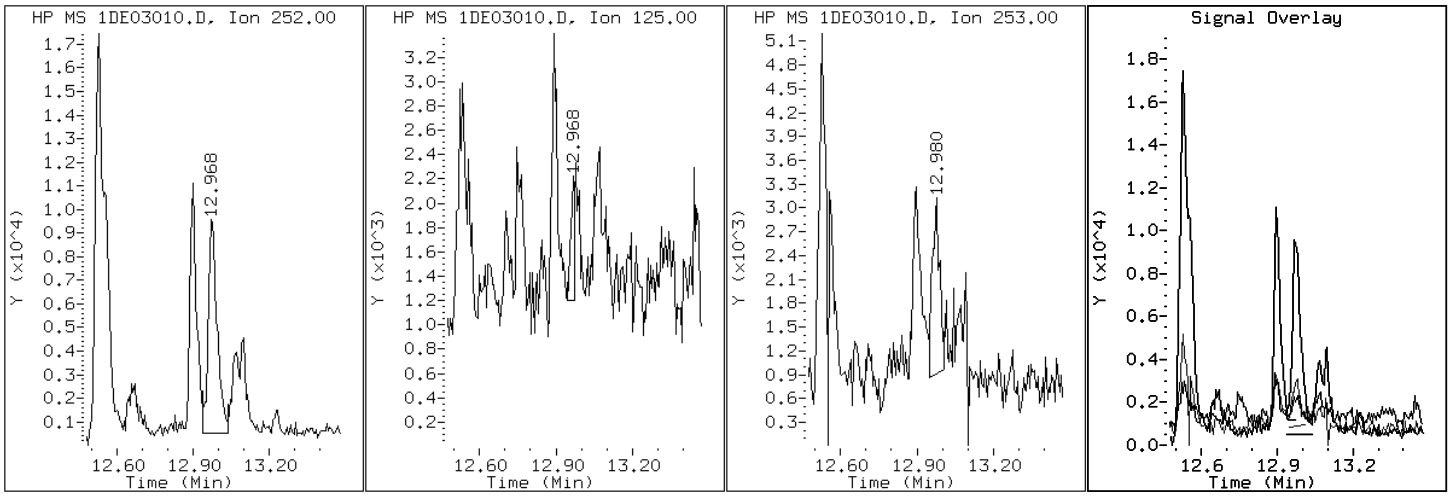
Data File: 1DE03010.D

Date: 03-MAY-2013 13:21

Client ID: CV1224B-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-39-a Operator: SCC

21 Benzo(a)pyrene



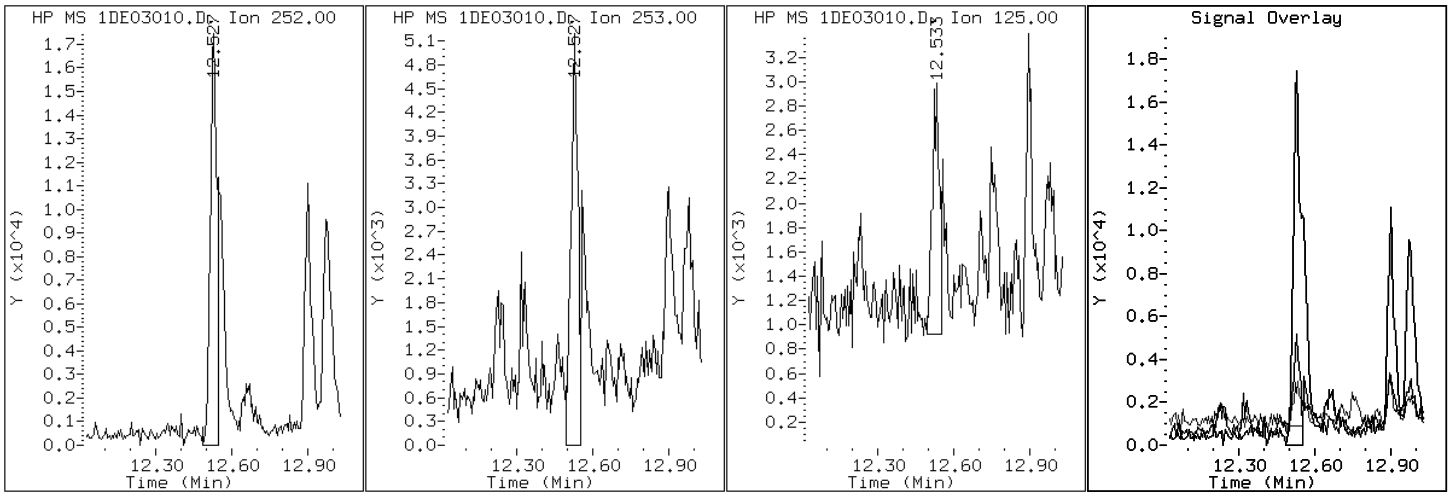
Data File: 1DE03010.D

Date: 03-MAY-2013 13:21

Client ID: CV1224B-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-39-a Operator: SCC

19 Benzo(b)fluoranthene



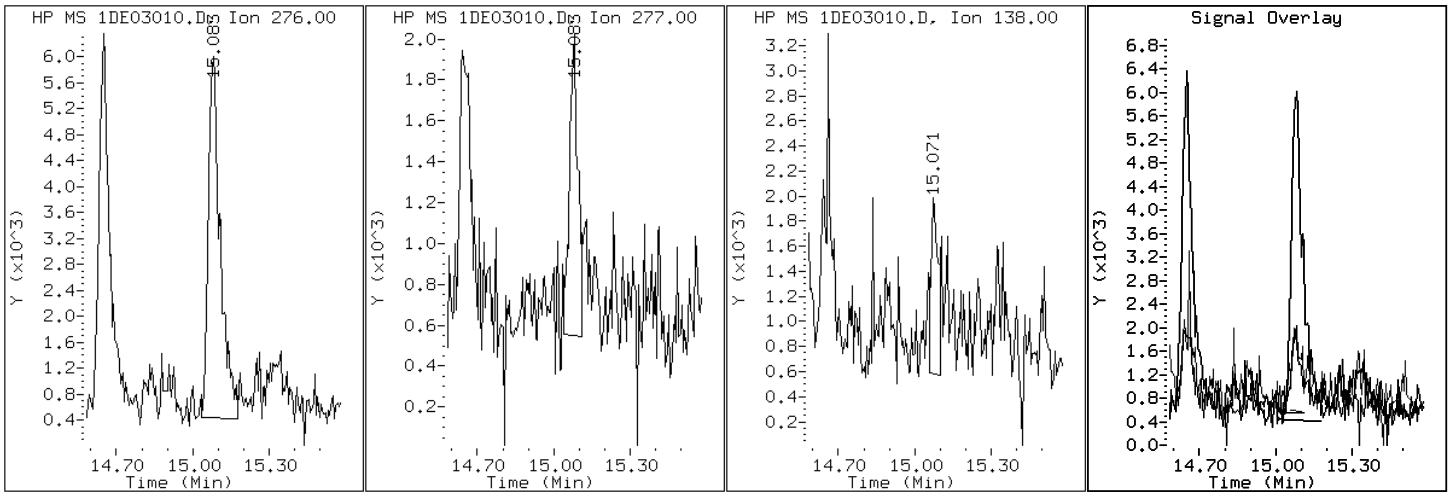
Data File: 1DE03010.D

Date: 03-MAY-2013 13:21

Client ID: CV1224B-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-39-a Operator: SCC

25 Benzo(g,h,i)perylene



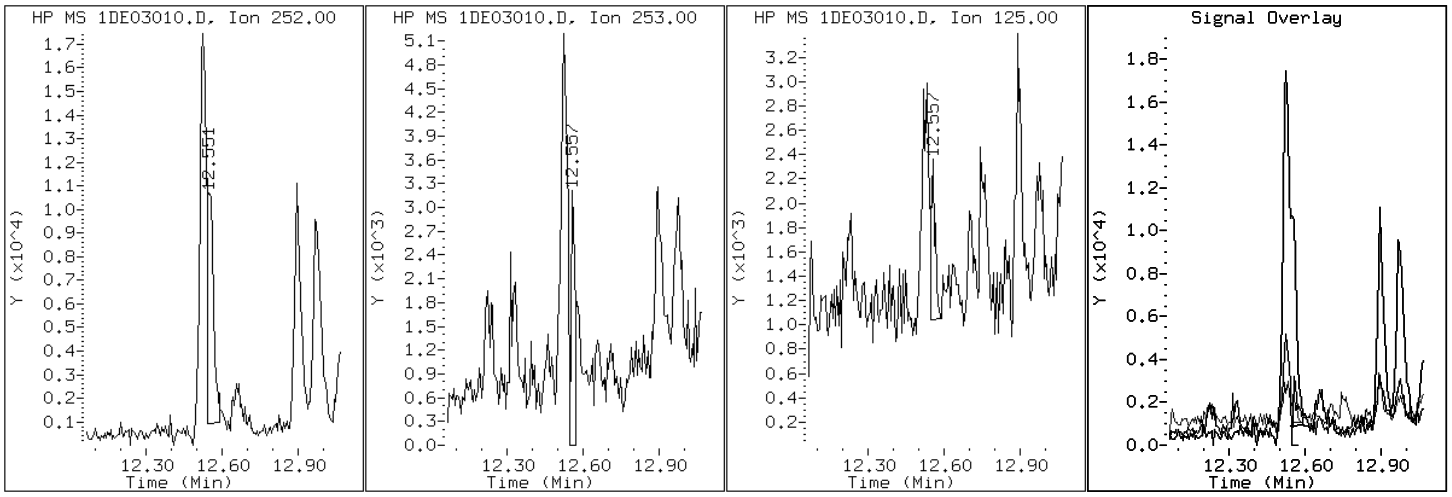
Data File: 1DE03010.D

Date: 03-MAY-2013 13:21

Client ID: CV1224B-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-39-a Operator: SCC

20 Benzo(k)fluoranthene



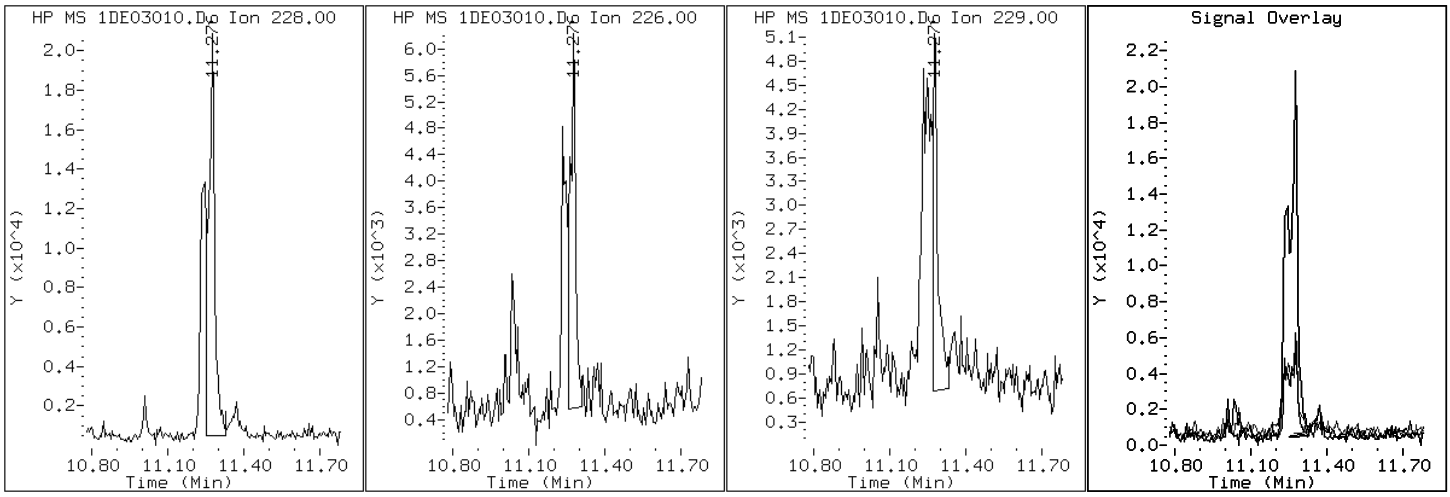
Data File: 1DE03010.D

Date: 03-MAY-2013 13:21

Client ID: CV1224B-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-39-a Operator: SCC

18 Chrysene



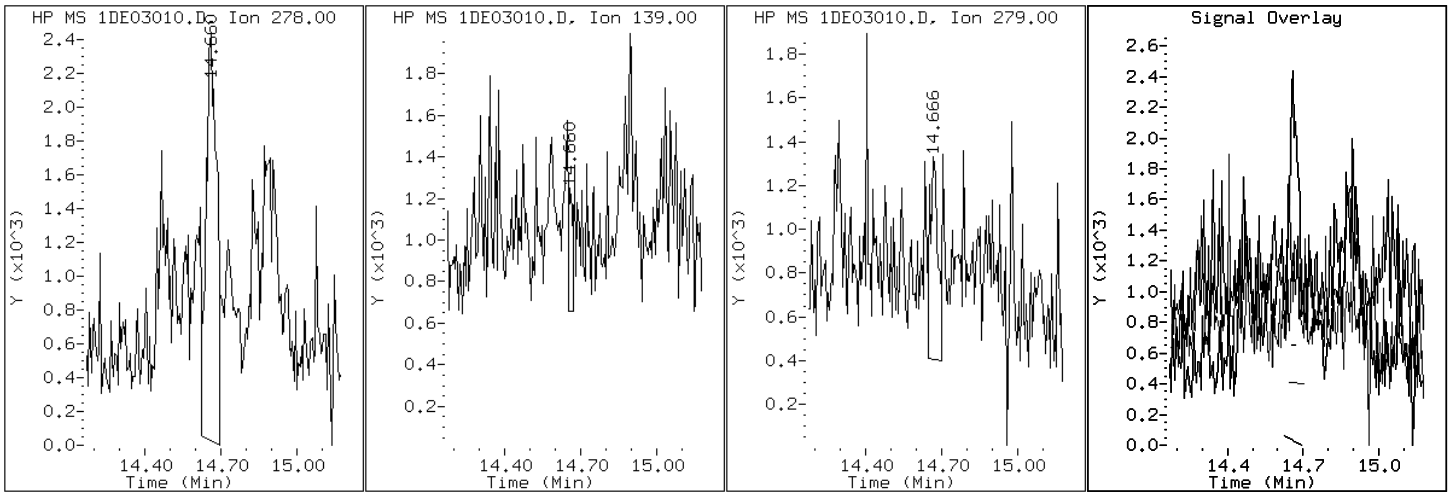
Data File: 1DE03010.D

Date: 03-MAY-2013 13:21

Client ID: CV1224B-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-39-a Operator: SCC

24 Dibenzo(a,h)anthracene



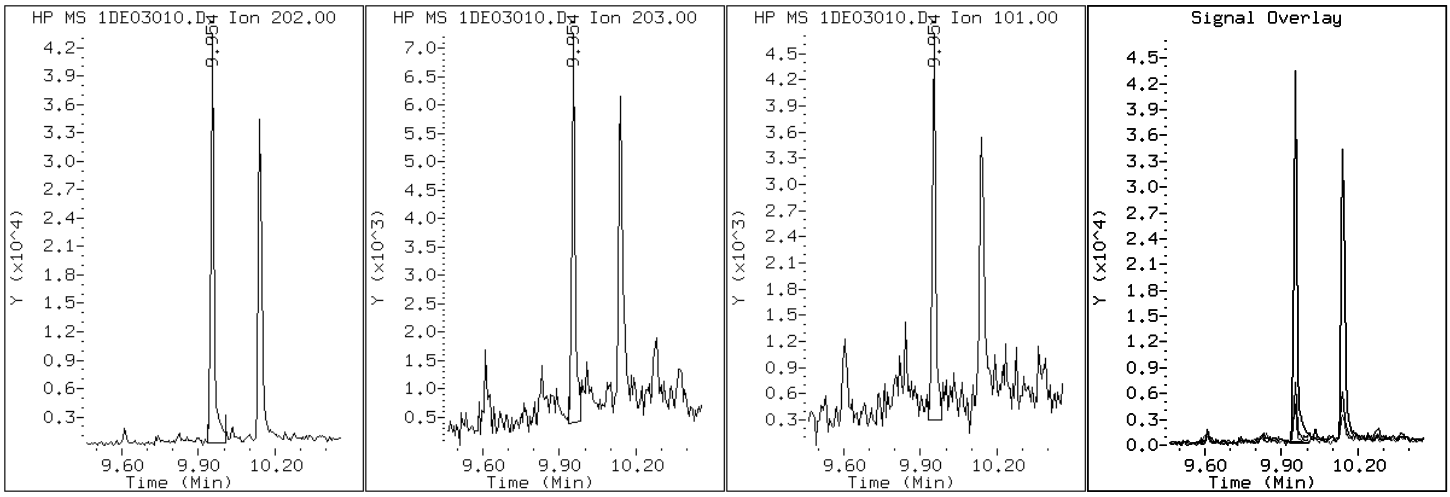
Data File: 1DE03010.D

Date: 03-MAY-2013 13:21

Client ID: CV1224B-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-39-a Operator: SCC

14 Fluoranthene



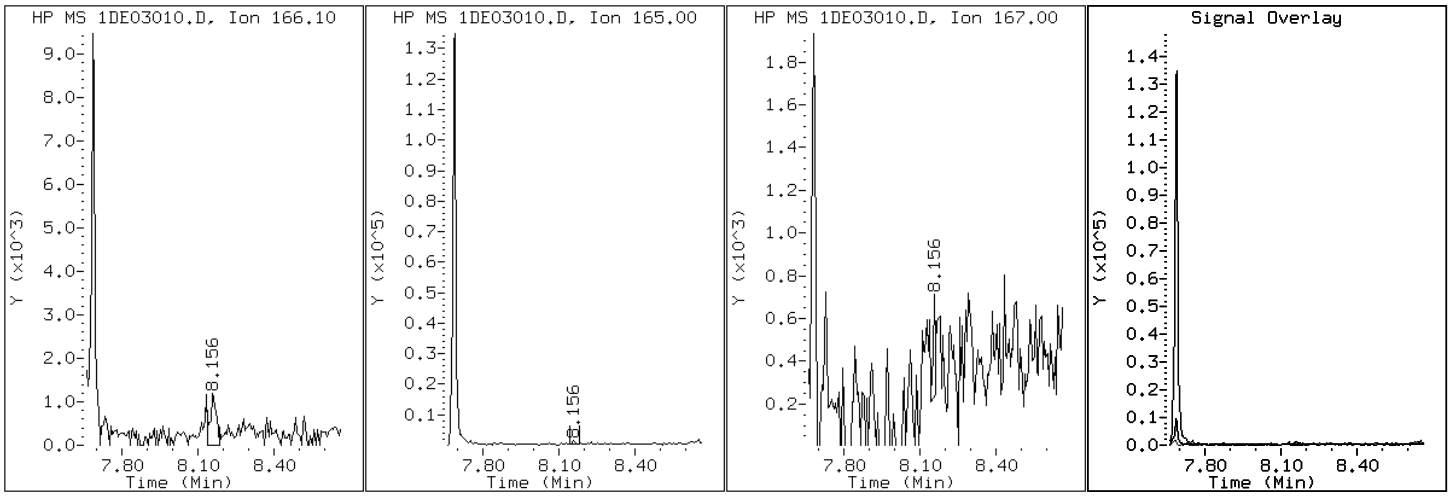
Data File: 1DE03010.D

Date: 03-MAY-2013 13:21

Client ID: CV1224B-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-39-a Operator: SCC

8 Fluorene



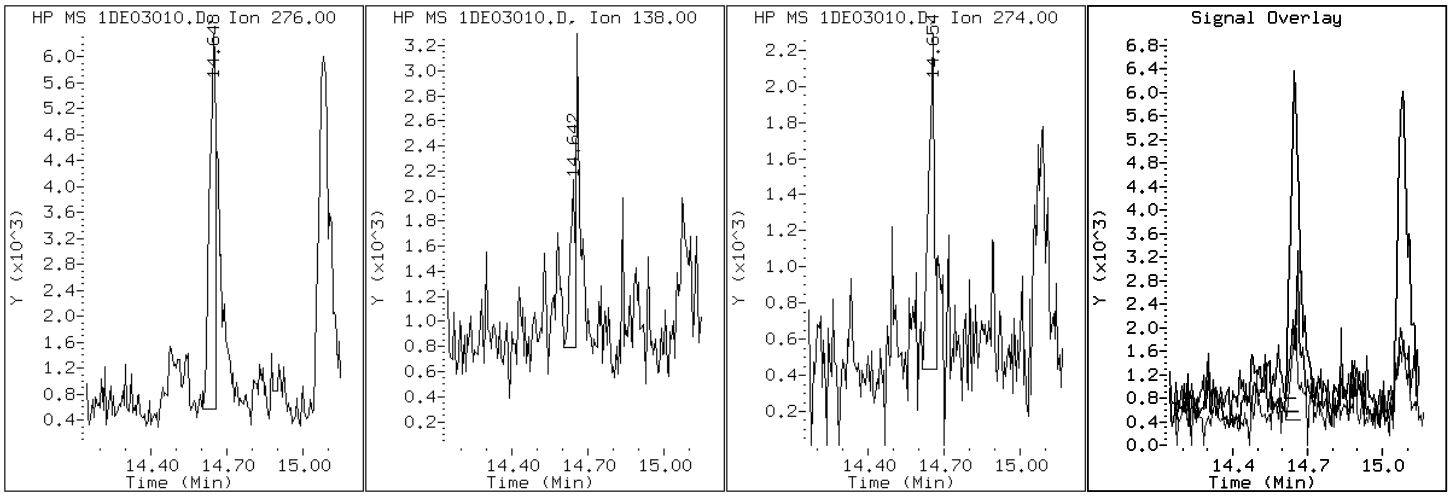
Data File: 1DE03010.D

Date: 03-MAY-2013 13:21

Client ID: CV1224B-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-39-a Operator: SCC

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



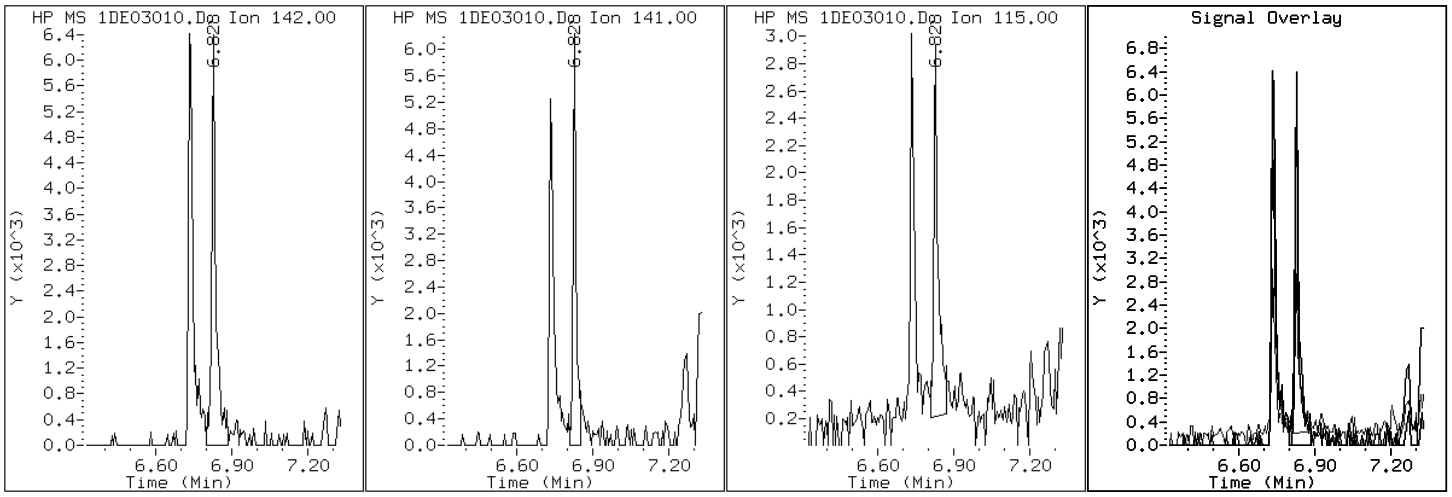
Data File: 1DE03010.D

Date: 03-MAY-2013 13:21

Client ID: CV1224B-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-39-a Operator: SCC

4 1-Methylnaphthalene



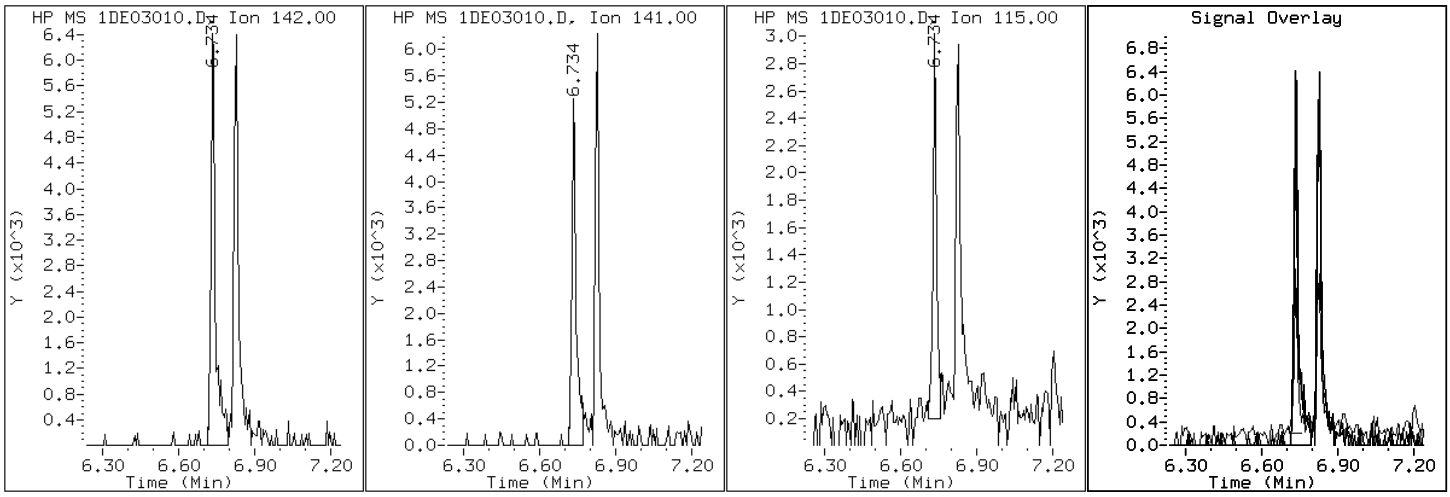
Data File: 1DE03010.D

Date: 03-MAY-2013 13:21

Client ID: CV1224B-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-39-a Operator: SCC

3 2-Methylnaphthalene



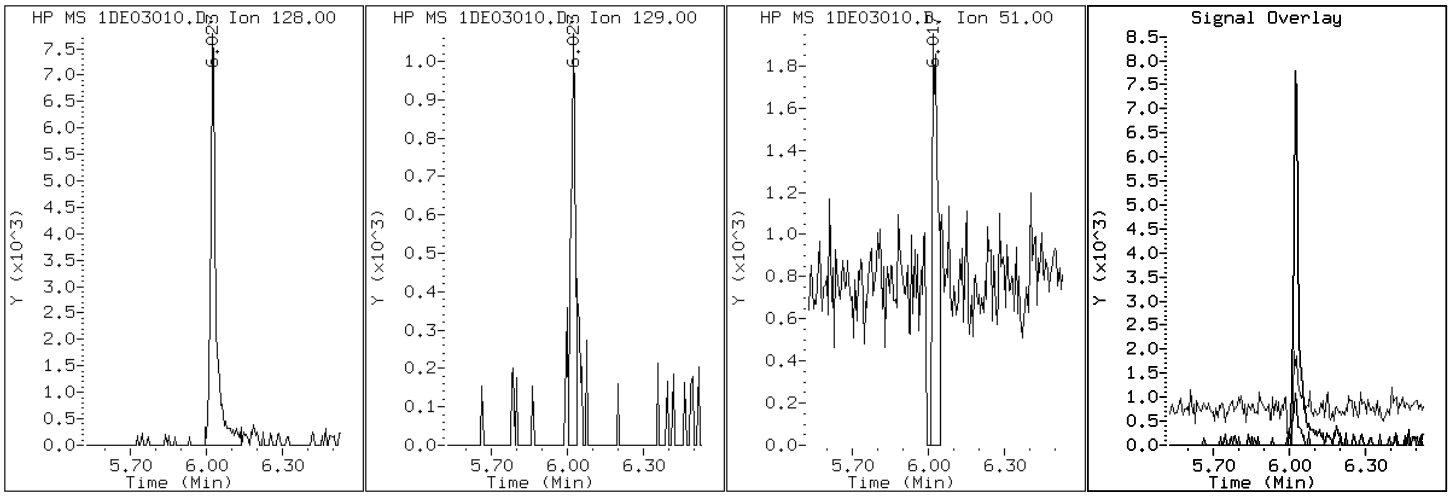
Data File: 1DE03010.D

Date: 03-MAY-2013 13:21

Client ID: CV1224B-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-39-a Operator: SCC

2 Naphthalene



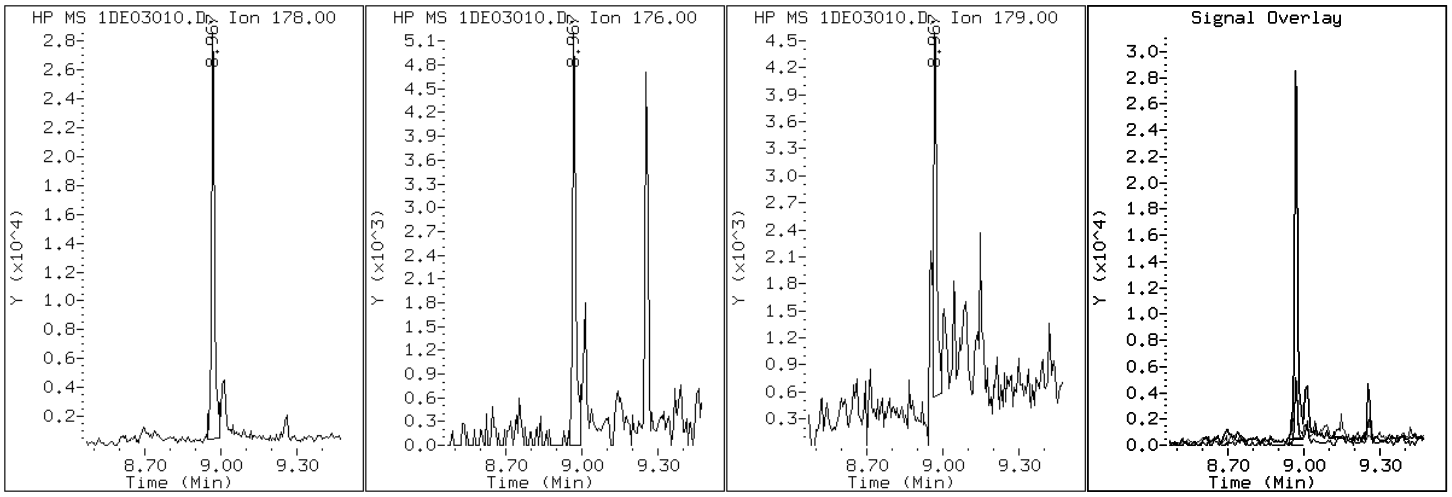
Data File: 1DE03010.D

Date: 03-MAY-2013 13:21

Client ID: CV1224B-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-39-a Operator: SCC

10 Phenanthrene



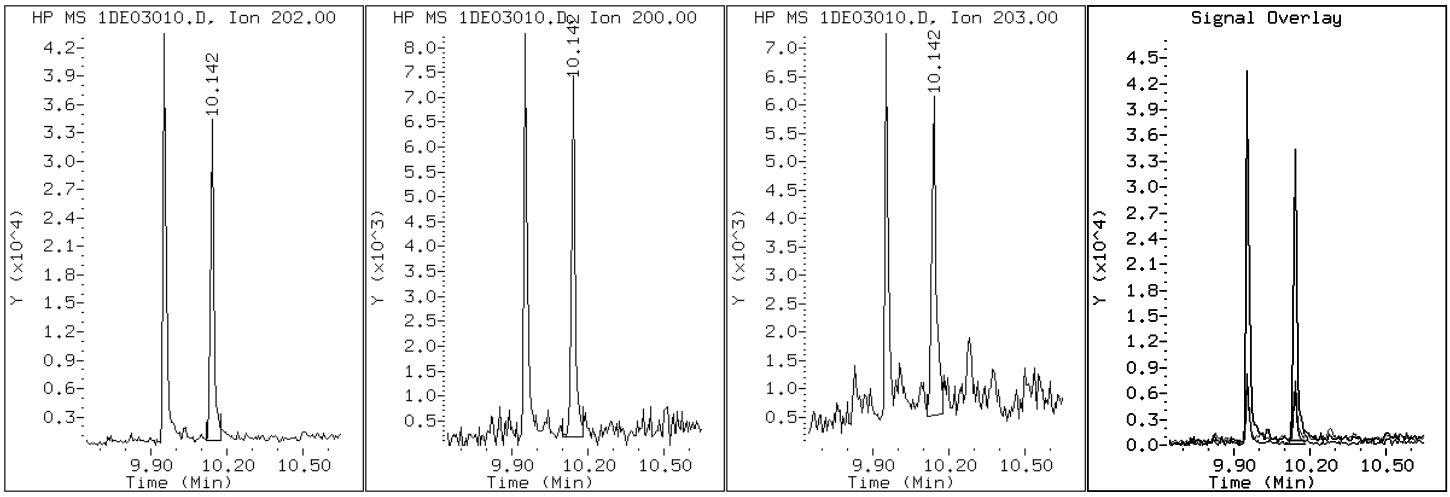
Data File: 1DE03010.D

Date: 03-MAY-2013 13:21

Client ID: CV1224B-CS Instrument: BSMSD.i

Sample Info: 680-89791-a-39-a Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DE03010.D
Inj. Date and Time: 03-MAY-2013 13:21
Instrument ID: BSMSD.i
Client ID: CV1224B-CS
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/06/2013

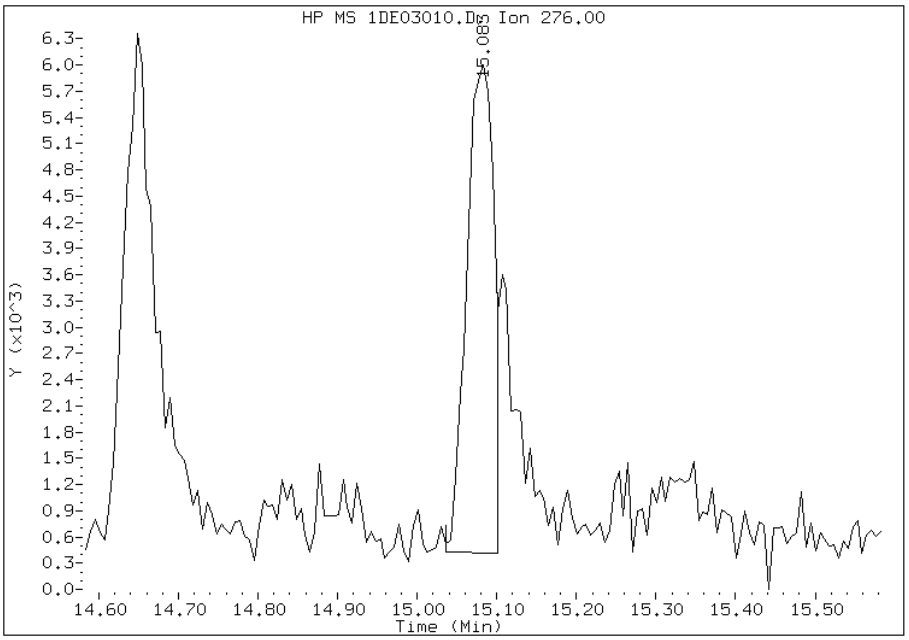
Processing Integration Results

RT: 15.08

Response: 13243

Amount: 0

Conc: 25



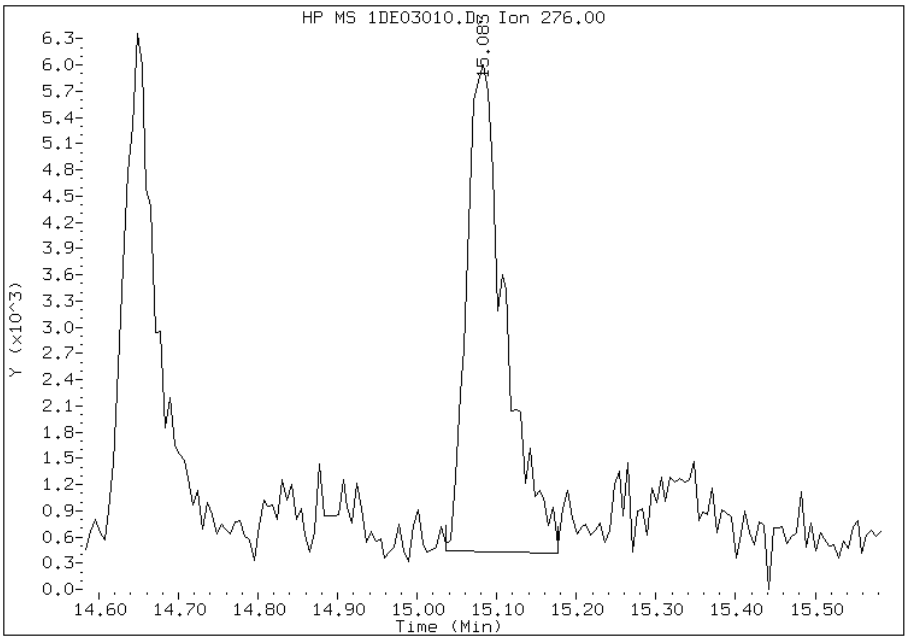
Manual Integration Results

RT: 15.08

Response: 18809

Amount: 0

Conc: 36



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03010.D
Inj. Date and Time: 03-MAY-2013 13:21
Instrument ID: BSMSD.i
Client ID: CV1224B-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/06/2013

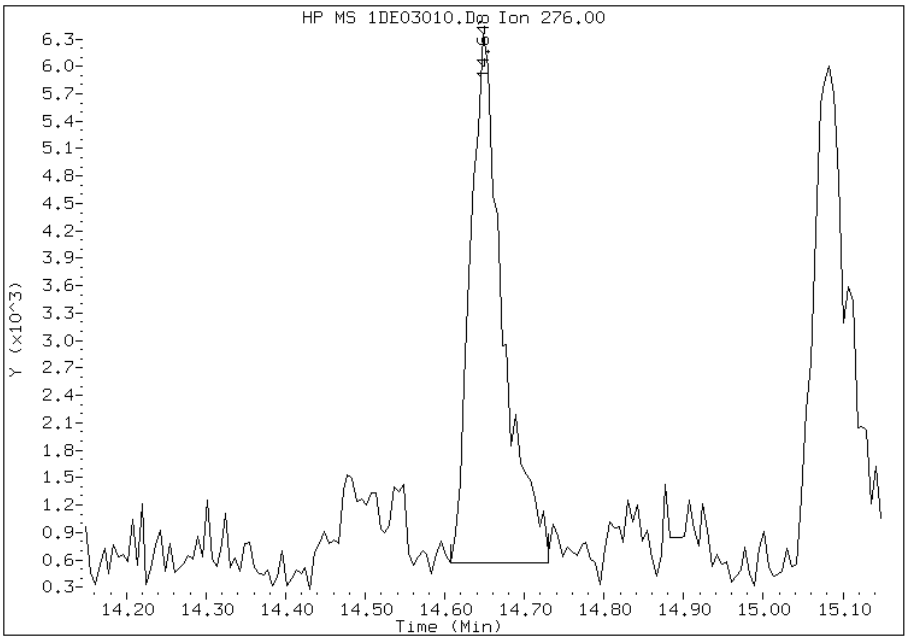
Processing Integration Results

RT: 14.65

Response: 16490

Amount: 0

Conc: 30



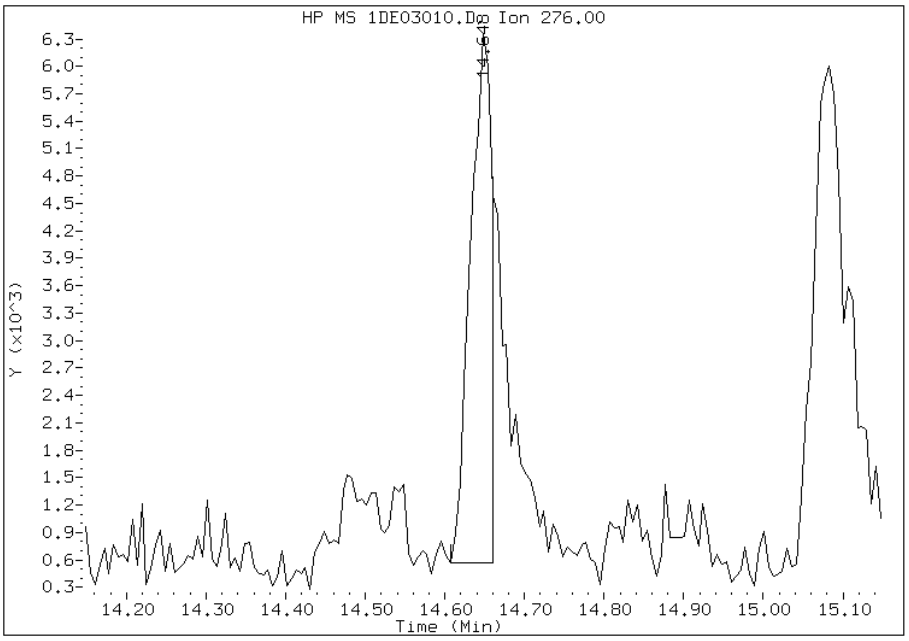
Manual Integration Results

RT: 14.65

Response: 10752

Amount: 0

Conc: 20



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:29
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DE03010.D
Inj. Date and Time: 03-MAY-2013 13:21
Instrument ID: BSMSD.i
Client ID: CV1224B-CS
Compound: 4 1-Methylnaphthalene
CAS #: 90-12-0
Report Date: 05/06/2013

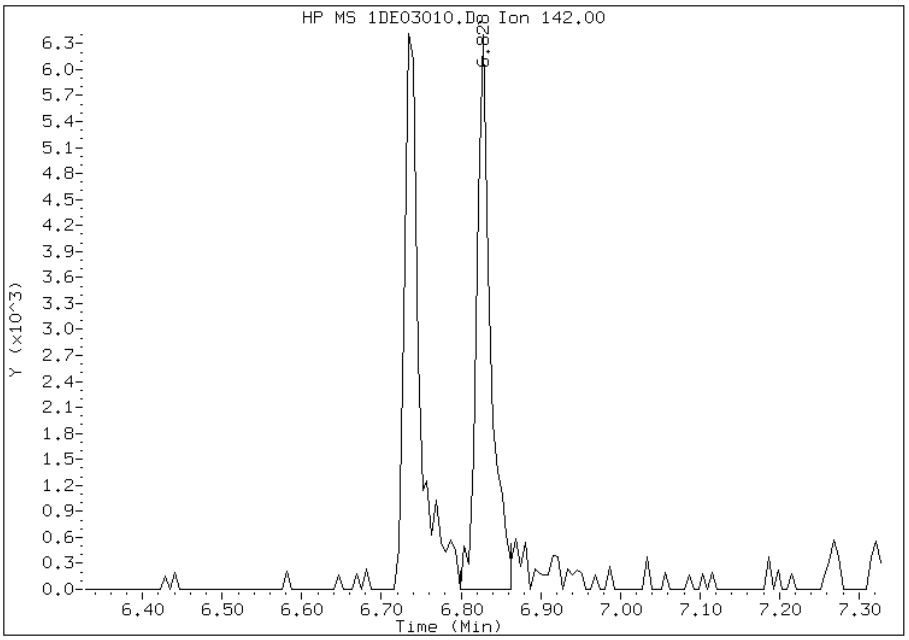
Processing Integration Results

RT: 6.83

Response: 7852

Amount: 0

Conc: 30



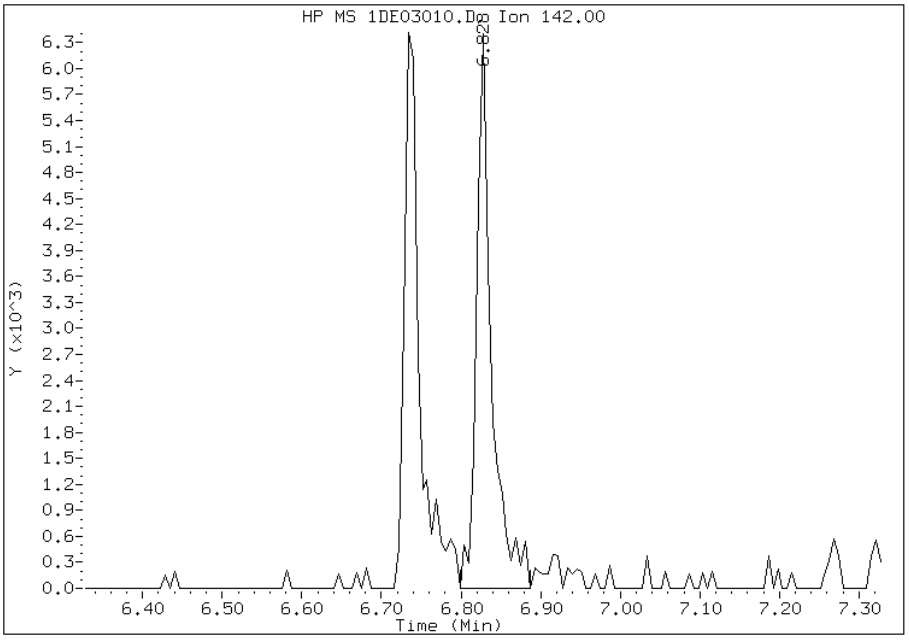
Manual Integration Results

RT: 6.83

Response: 8344

Amount: 0

Conc: 32



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:28
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03010.D
Inj. Date and Time: 03-MAY-2013 13:21
Instrument ID: BSMSD.i
Client ID: CV1224B-CS
Compound: 3 2-Methylnaphthalene
CAS #: 91-57-6
Report Date: 05/06/2013

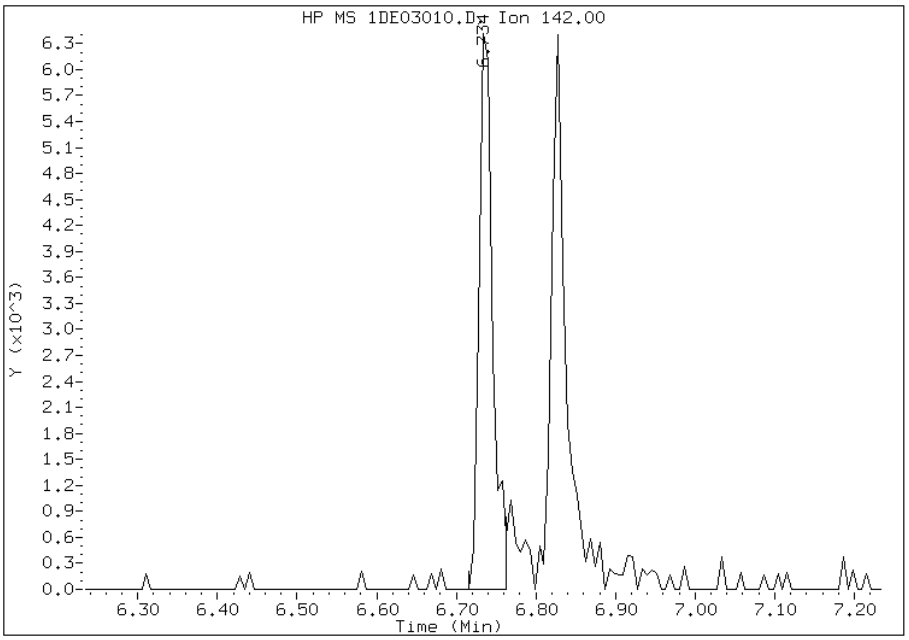
Processing Integration Results

RT: 6.73

Response: 7666

Amount: 0

Conc: 28



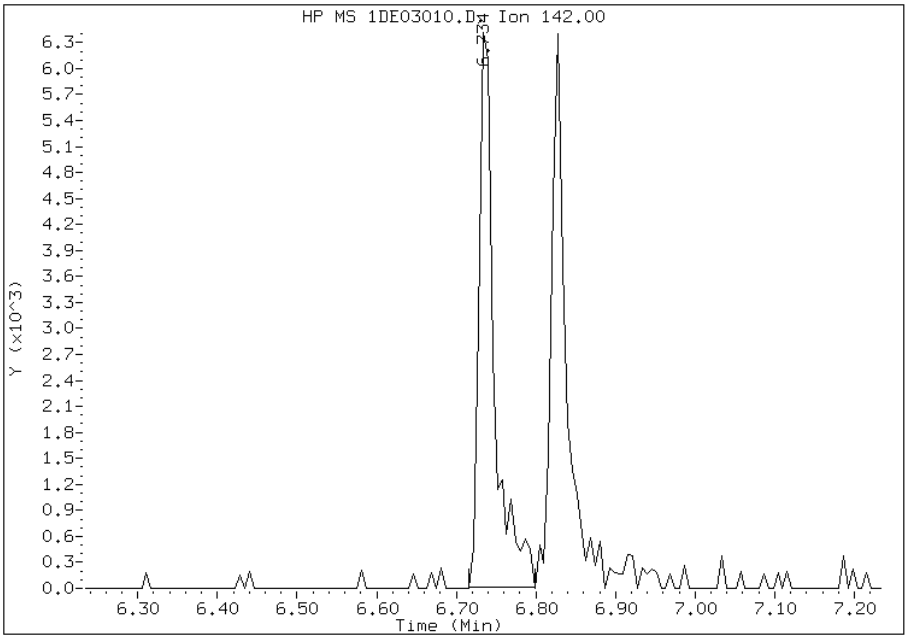
Manual Integration Results

RT: 6.73

Response: 8682

Amount: 0

Conc: 31



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:28
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03010.D
Inj. Date and Time: 03-MAY-2013 13:21
Instrument ID: BSMSD.i
Client ID: CV1224B-CS
Compound: 2 Naphthalene
CAS #: 91-20-3
Report Date: 05/06/2013

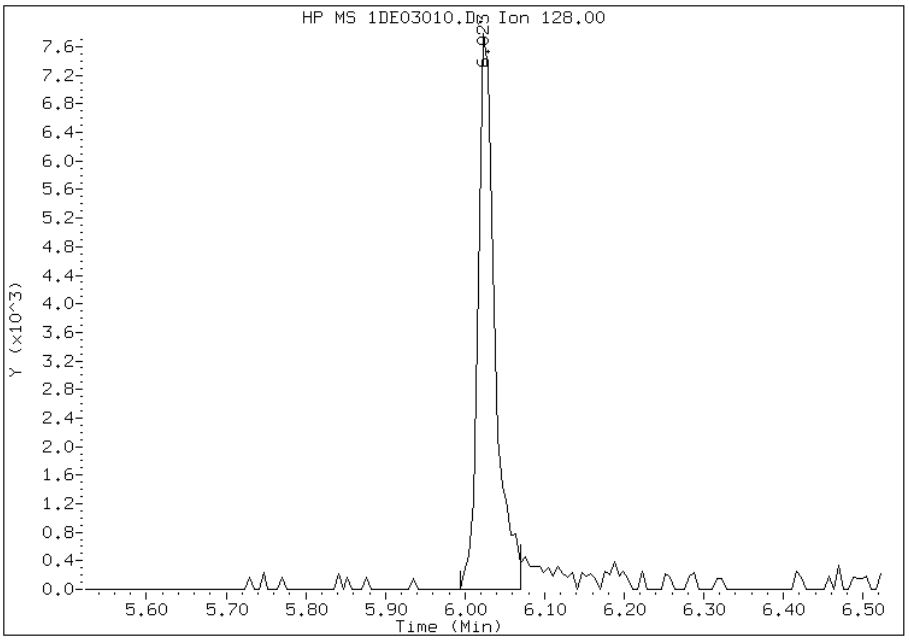
Processing Integration Results

RT: 6.02

Response: 11496

Amount: 0

Conc: 27



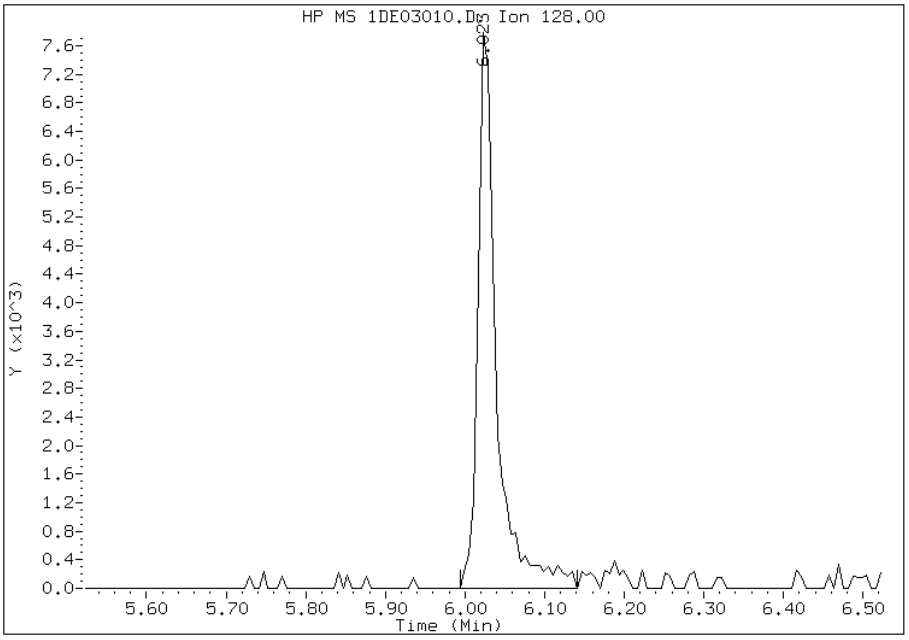
Manual Integration Results

RT: 6.02

Response: 12594

Amount: 0

Conc: 29



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:33
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: CV0282A-CS-SP | Lab Sample ID: 680-89791-40

Matrix: Solid | Lab File ID: 1DE03011.D

Analysis Method: 8270C LL | Date Collected: 04/25/2013 13:12

Extract. Method: 3546 | Date Extracted: 05/02/2013 08:14

Sample wt/vol: 14.94(g) | Date Analyzed: 05/03/2013 13:44

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 21.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137126 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	6.5	J	51	6.4
120-12-7	Anthracene	15		11	5.4
56-55-3	Benzo[a]anthracene	61		10	5.0
50-32-8	Benzo[a]pyrene	82		13	6.7
205-99-2	Benzo[b]fluoranthene	130		16	7.8
191-24-2	Benzo[g,h,i]perylene	80		26	5.7
207-08-9	Benzo[k]fluoranthene	49		10	4.6
218-01-9	Chrysene	130		12	5.8
53-70-3	Dibenz(a,h)anthracene	25	J	26	5.3
206-44-0	Fluoranthene	110		26	5.1
86-73-7	Fluorene	8.0	J	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	44		26	9.1
90-12-0	1-Methylnaphthalene	46	J	51	5.7
91-57-6	2-Methylnaphthalene	53		51	9.1
91-20-3	Naphthalene	43	J	51	5.7
85-01-8	Phenanthrene	79		10	5.0
129-00-0	Pyrene	79		26	4.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	49		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D050313.b\1DE03011.D
Lab Smp Id: 680-89791-A-40-A Client Smp ID: CV0282A-CS-SP
Inj Date : 03-MAY-2013 13:44
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89791-a-40-a
Misc Info : 680-89791-A-40-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D050313.b\dFASTPAHi.m
Meth Date : 03-May-2013 10:55 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 12
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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	21.825	% 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	6.002	6.004	(1.000)	1496138	40.0000	
* 6	Acenaphthene-d10	164	7.688	7.690	(1.000)	986407	40.0000	
* 9	Phenanthrene-d10	188	8.951	8.953	(1.000)	1639099	40.0000	
$ 13	o-Terphenyl	230	9.257	9.259	(1.034)	119885	4.85425	420
* 17	Chrysene-d12	240	11.260	11.257	(1.000)	1743678	40.0000	
* 22	Perylene-d12	264	13.070	13.066	(1.000)	1777270	40.0000	
2	Naphthalene	128	6.019	6.027	(1.003)	18568	0.49931	43(MH)
3	2-Methylnaphthalene	142	6.736	6.738	(1.122)	14772	0.61536	53(M)
4	1-Methylnaphthalene	142	6.824	6.826	(1.137)	12305	0.54280	46(M)
5	Acenaphthylene	152	7.559	7.561	(0.983)	3164	0.07579	6.5
8	Fluorene	166	8.158	8.160	(1.061)	2867	0.09395	8.0(Q)
10	Phenanthrene	178	8.969	8.971	(1.002)	41846	0.92685	79
11	Anthracene	178	9.010	9.012	(1.007)	7698	0.17179	15
12	Carbazole	167	9.157	9.159	(1.023)	3890	0.09842	8.4

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	9.956	9.958	(1.112)	61341	1.32030	110(M)
15 Pyrene	202	10.144	10.146	(0.901)	48185	0.92022	79
16 Benzo(a)anthracene	228	11.242	11.239	(0.998)	35644	0.70704	60
18 Chrysene	228	11.278	11.280	(1.002)	71787	1.51867	130
19 Benzo(b)fluoranthene	252	12.529	12.526	(0.959)	69703	1.57001	130
20 Benzo(k)fluoranthene	252	12.559	12.567	(0.961)	26647	0.56972	49(Q)
21 Benzo(a)pyrene	252	12.970	12.978	(0.992)	42754	0.95843	82
23 Indeno(1,2,3-cd)pyrene	276	14.650	14.647	(1.121)	24319	0.51127	44(M)
24 Dibenzo(a,h)anthracene	278	14.668	14.670	(1.122)	12927	0.28860	25
25 Benzo(g,h,i)perylene	276	15.079	15.081	(1.154)	42686	0.93203	80(M)

QC Flag Legend

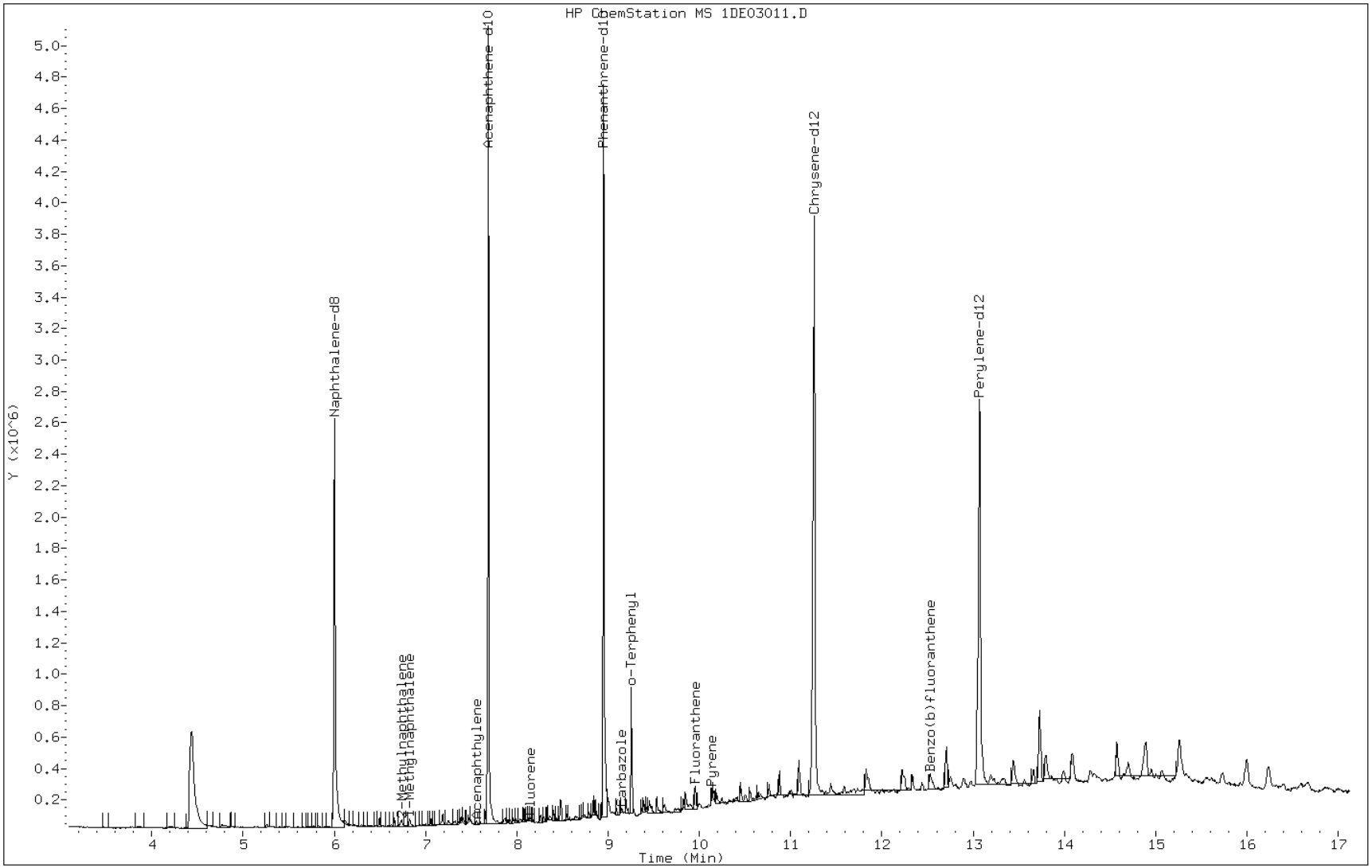
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DE03011.D

Date: 03-MAY-2013 13:44

Client ID: CV0282A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-40-a Operator: SCC



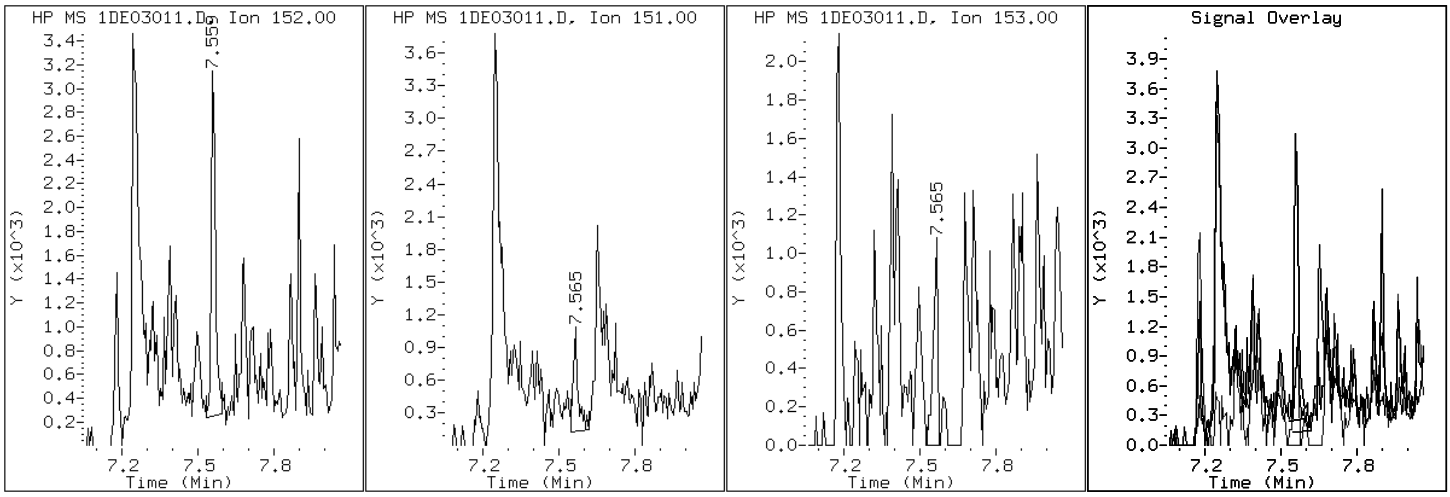
Data File: 1DE03011.D

Date: 03-MAY-2013 13:44

Client ID: CV0282A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-40-a Operator: SCC

5 Acenaphthylene



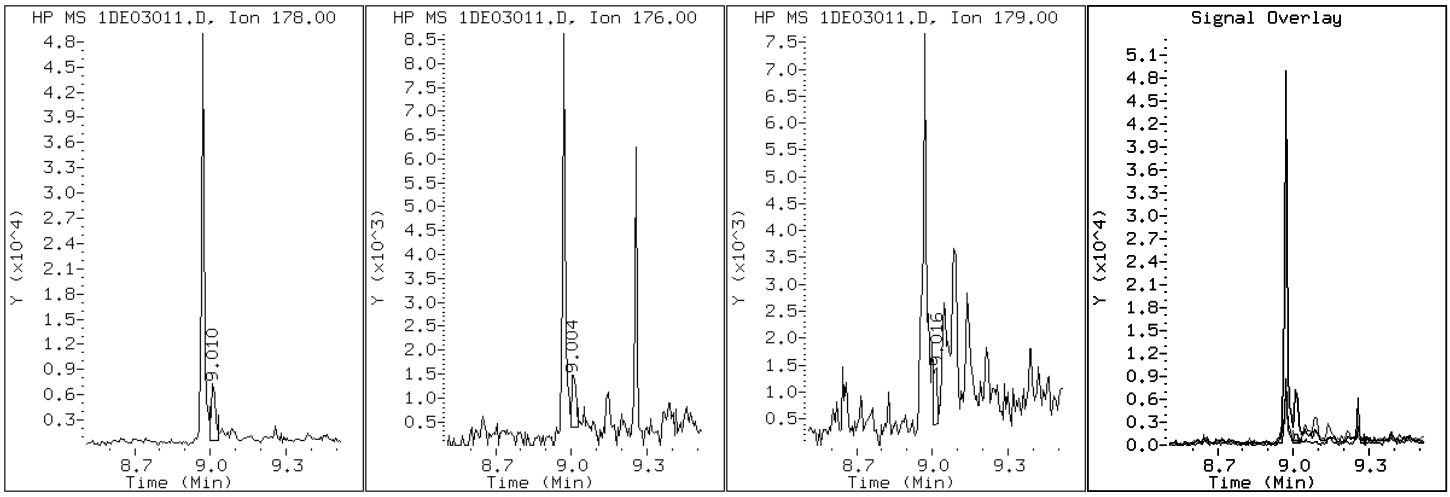
Data File: 1DE03011.D

Date: 03-MAY-2013 13:44

Client ID: CV0282A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-40-a Operator: SCC

11 Anthracene



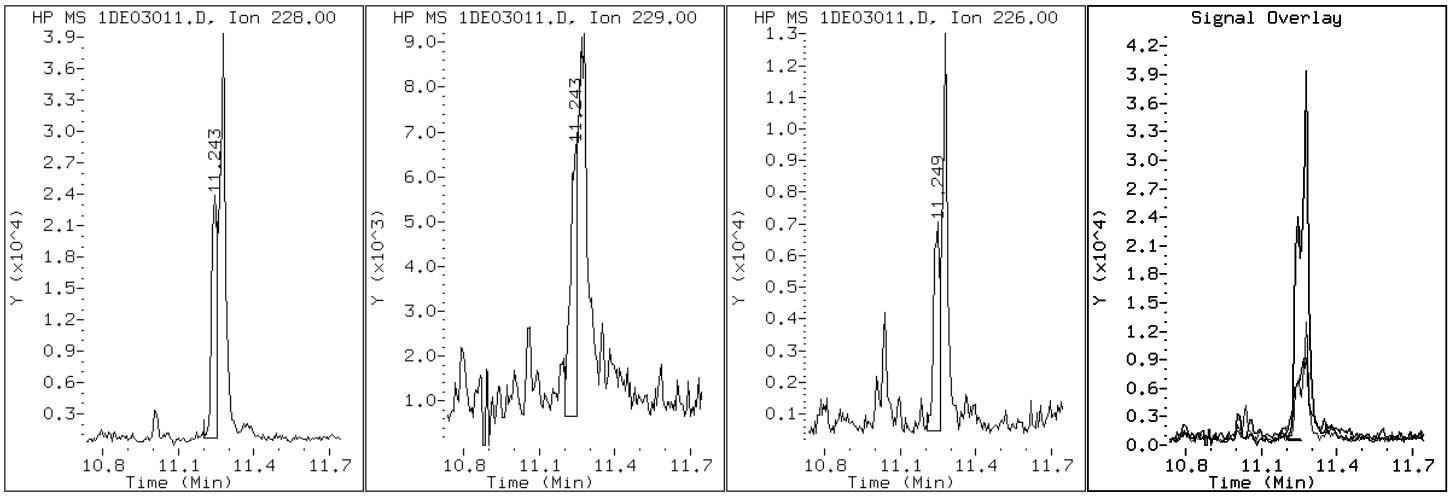
Data File: 1DE03011.D

Date: 03-MAY-2013 13:44

Client ID: CV0282A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-40-a Operator: SCC

16 Benzo(a)anthracene



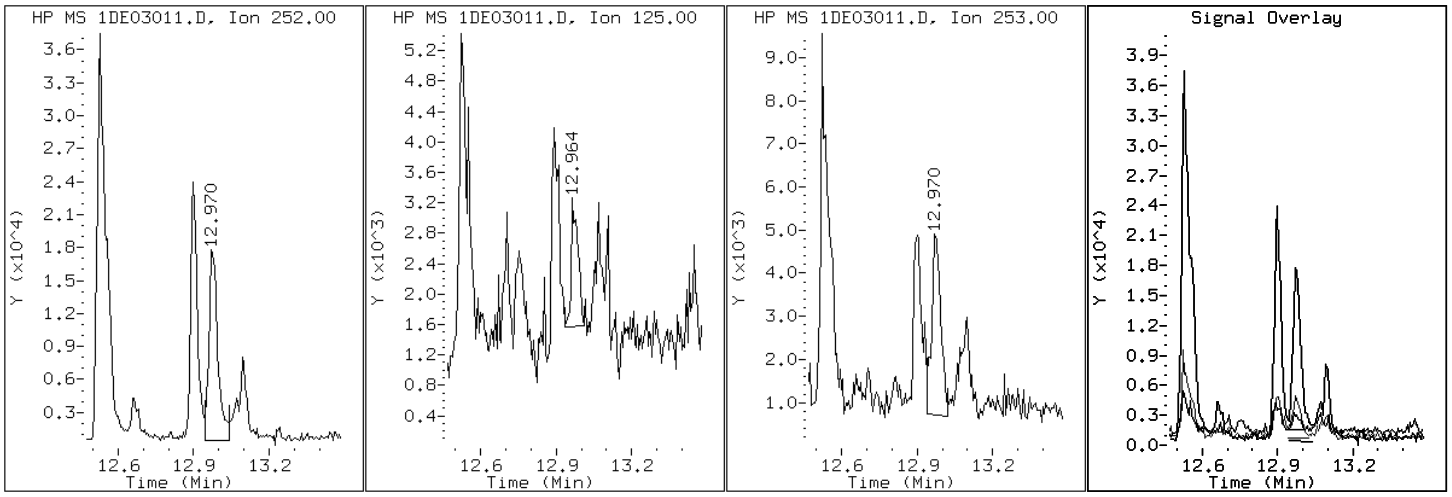
Data File: 1DE03011.D

Date: 03-MAY-2013 13:44

Client ID: CV0282A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-40-a Operator: SCC

21 Benzo(a)pyrene



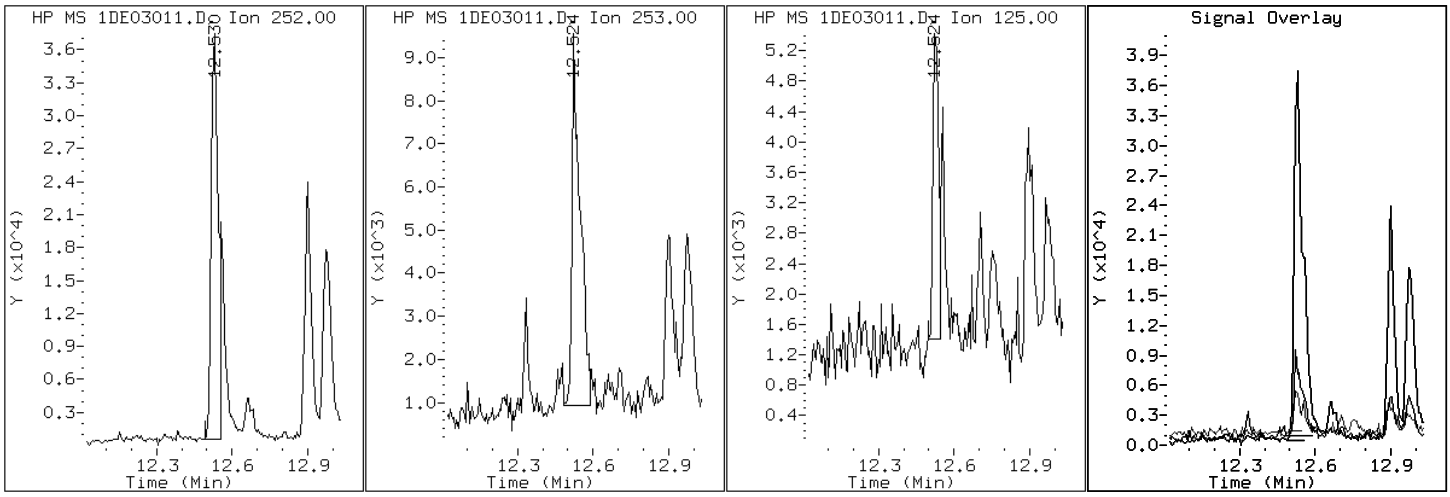
Data File: 1DE03011.D

Date: 03-MAY-2013 13:44

Client ID: CV0282A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-40-a Operator: SCC

19 Benzo(b)fluoranthene



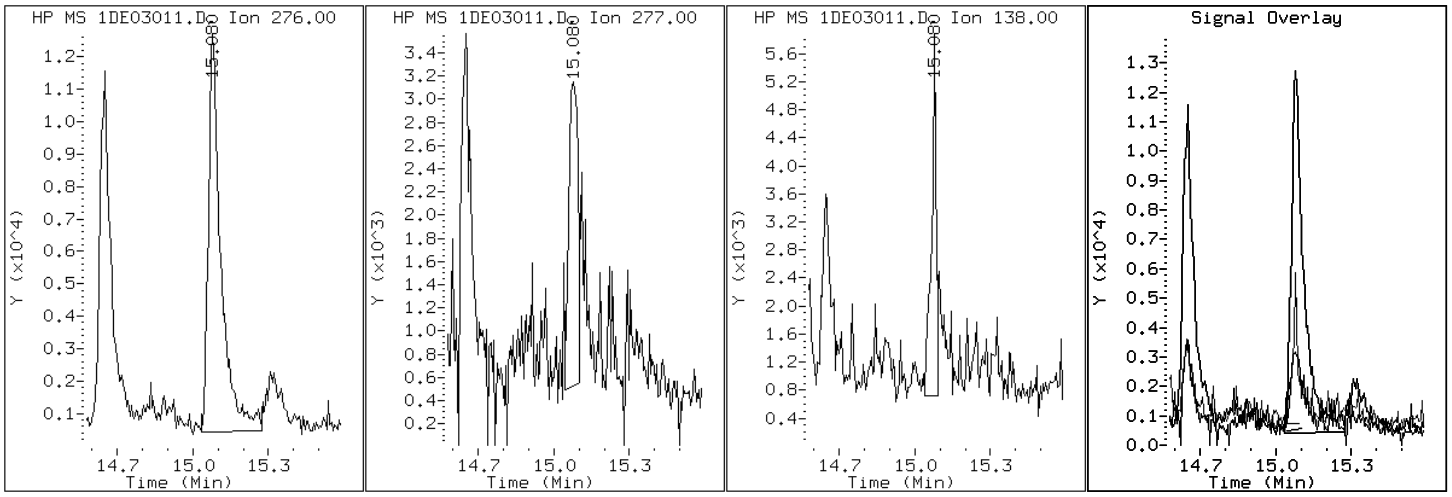
Data File: 1DE03011.D

Date: 03-MAY-2013 13:44

Client ID: CV0282A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-40-a Operator: SCC

25 Benzo(g,h,i)perylene



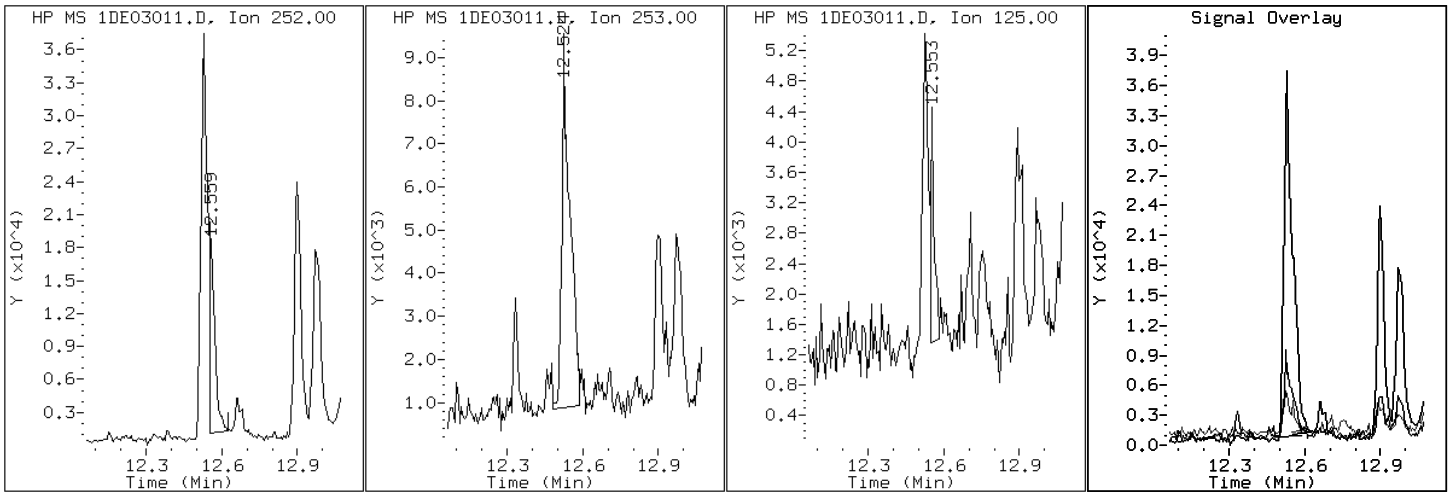
Data File: 1DE03011.D

Date: 03-MAY-2013 13:44

Client ID: CV0282A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-40-a Operator: SCC

20 Benzo(k)fluoranthene



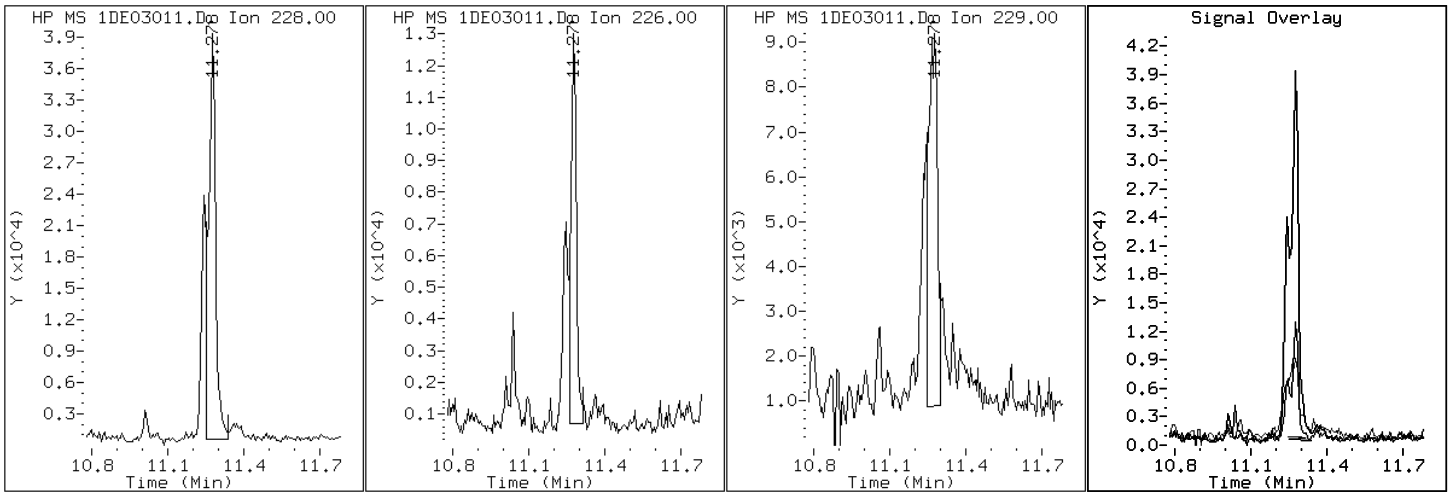
Data File: 1DE03011.D

Date: 03-MAY-2013 13:44

Client ID: CV0282A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-40-a Operator: SCC

18 Chrysene



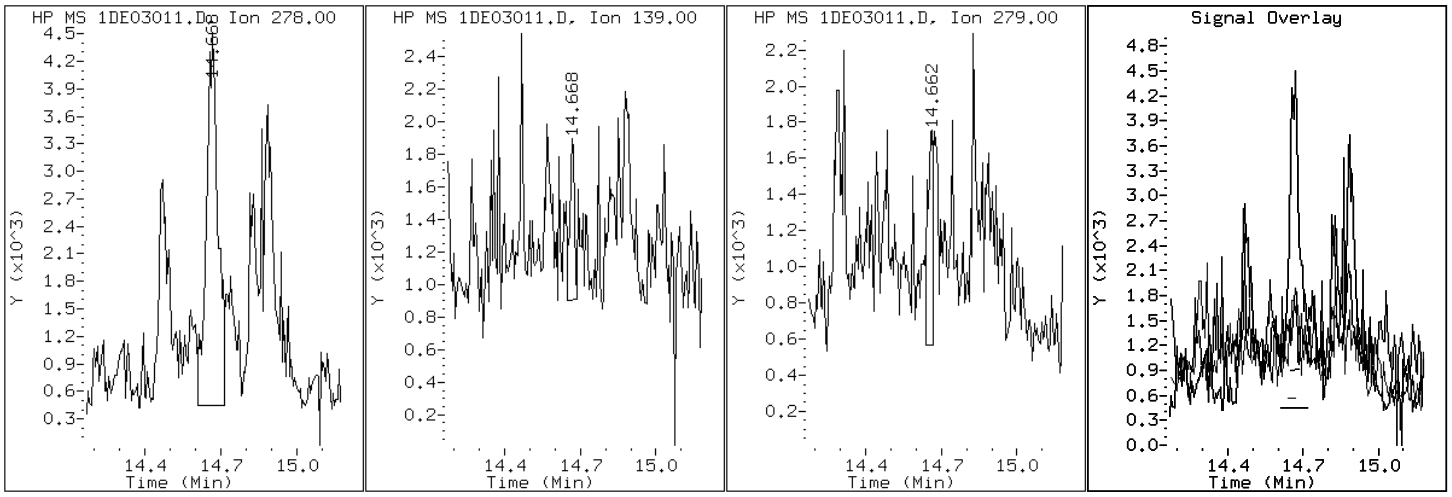
Data File: 1DE03011.D

Date: 03-MAY-2013 13:44

Client ID: CV0282A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-40-a Operator: SCC

24 Dibenzo(a,h)anthracene



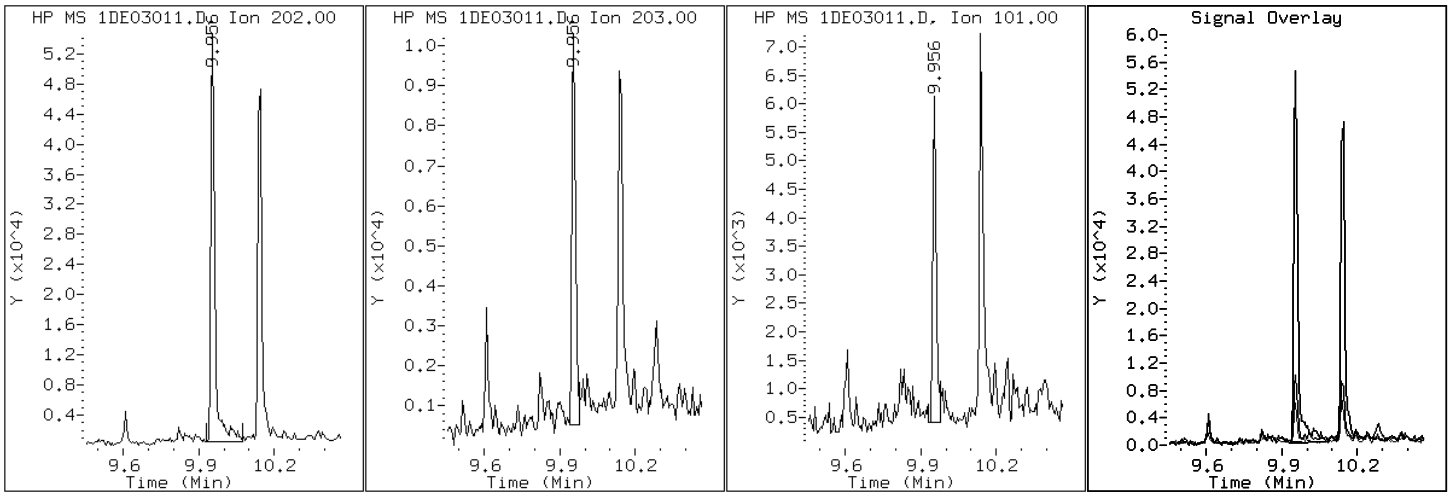
Data File: 1DE03011.D

Date: 03-MAY-2013 13:44

Client ID: CV0282A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-40-a Operator: SCC

14 Fluoranthene



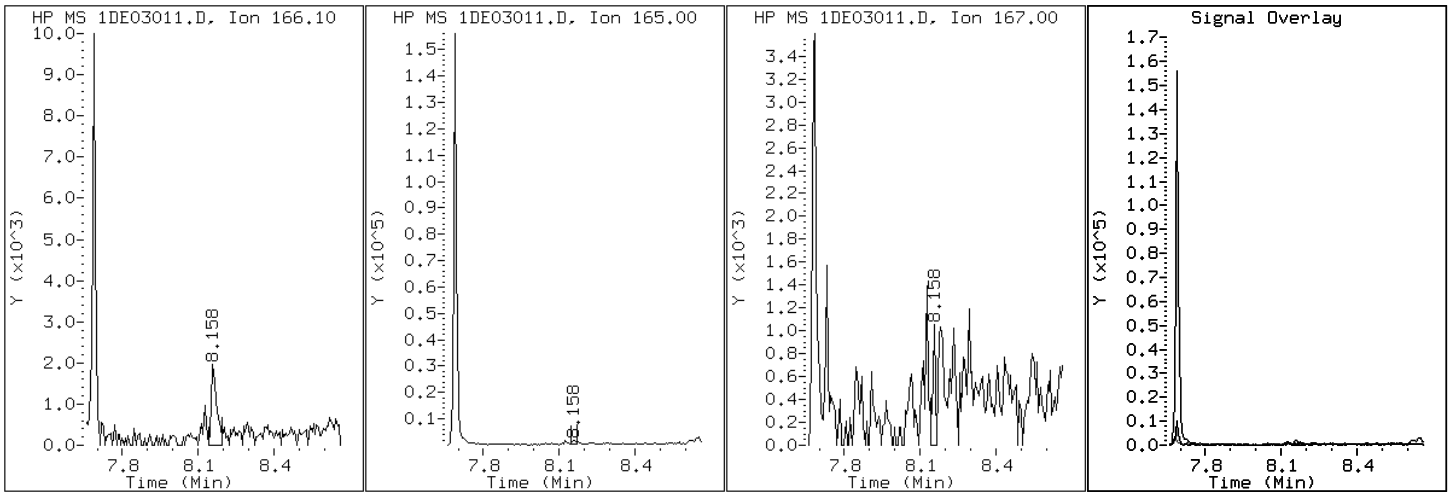
Data File: 1DE03011.D

Date: 03-MAY-2013 13:44

Client ID: CV0282A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-40-a Operator: SCC

8 Fluorene



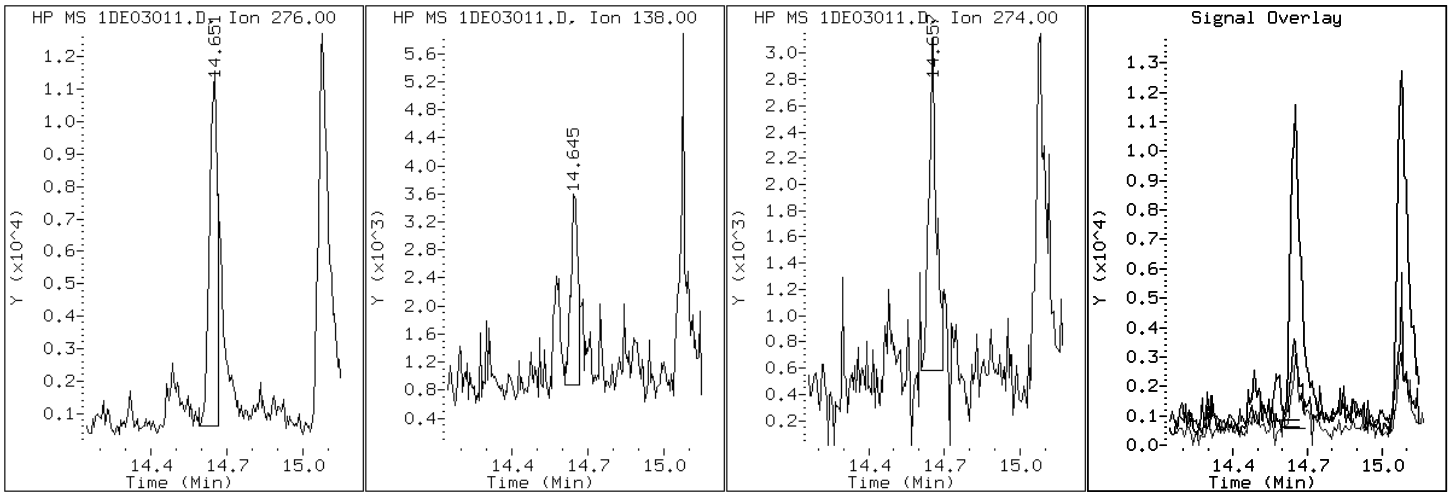
Data File: 1DE03011.D

Date: 03-MAY-2013 13:44

Client ID: CV0282A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-40-a Operator: SCC

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



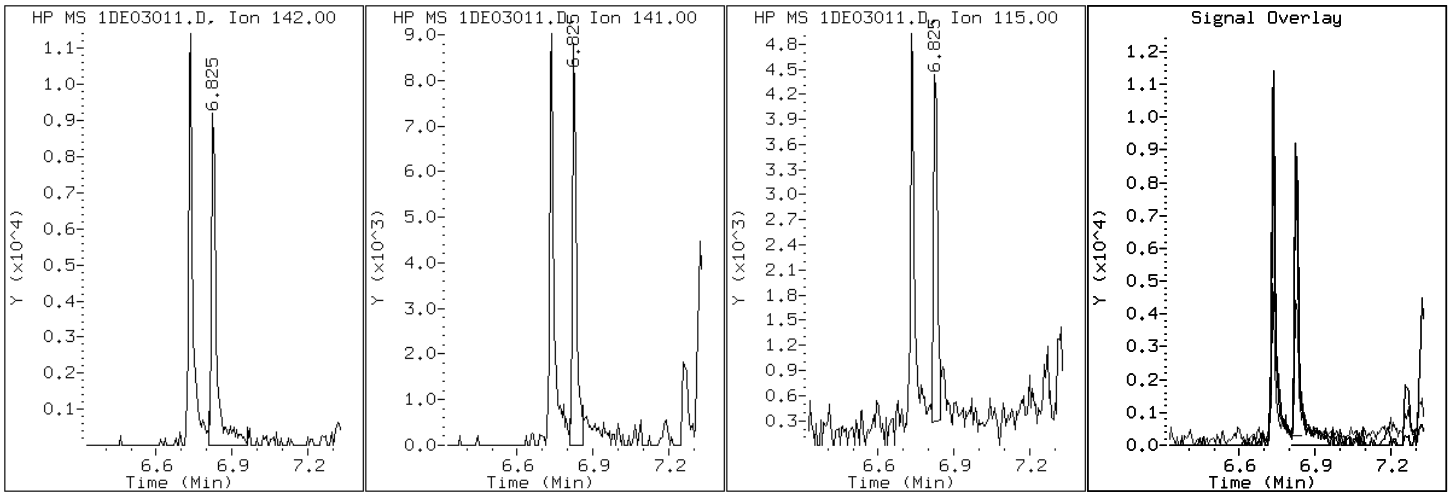
Data File: 1DE03011.D

Date: 03-MAY-2013 13:44

Client ID: CV0282A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-40-a Operator: SCC

4 1-Methylnaphthalene



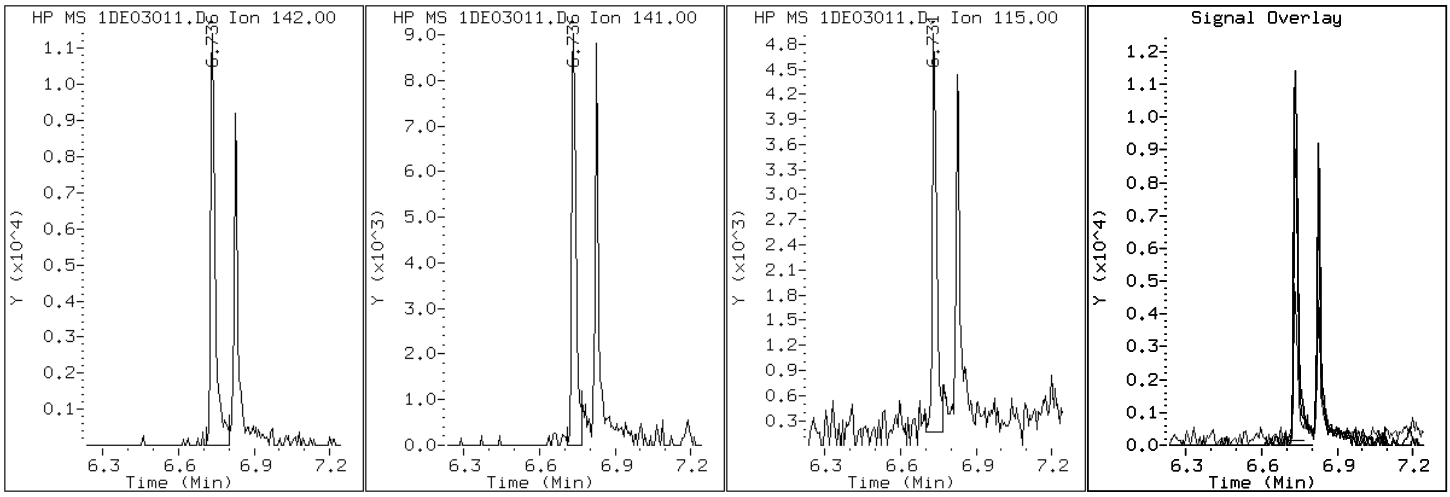
Data File: 1DE03011.D

Date: 03-MAY-2013 13:44

Client ID: CV0282A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-40-a Operator: SCC

3 2-Methylnaphthalene



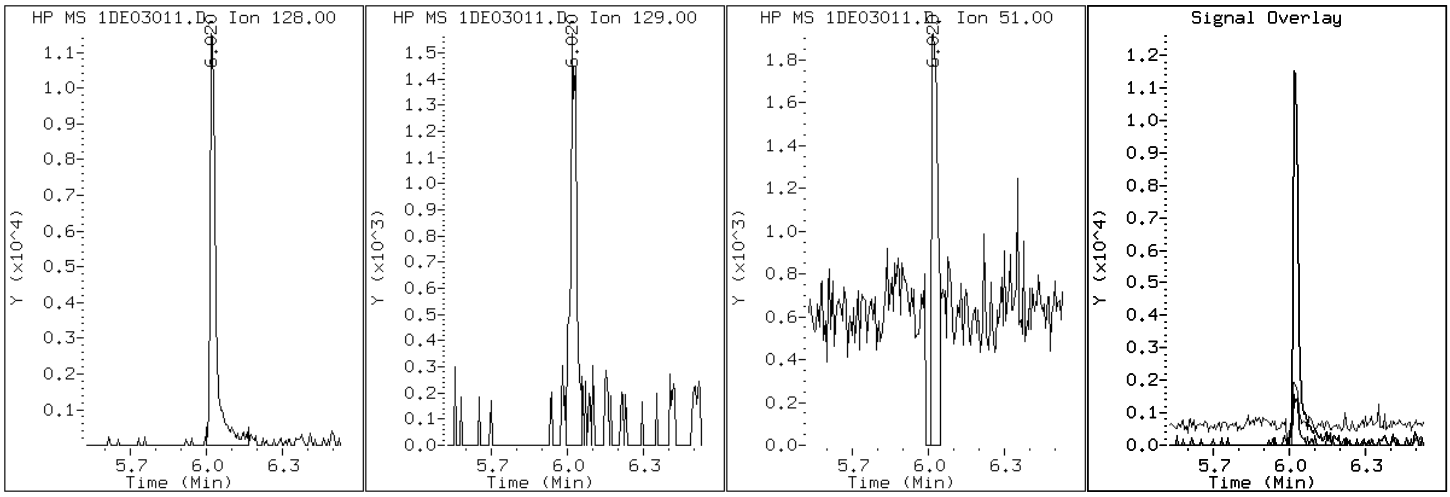
Data File: 1DE03011.D

Date: 03-MAY-2013 13:44

Client ID: CV0282A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-40-a Operator: SCC

2 Naphthalene



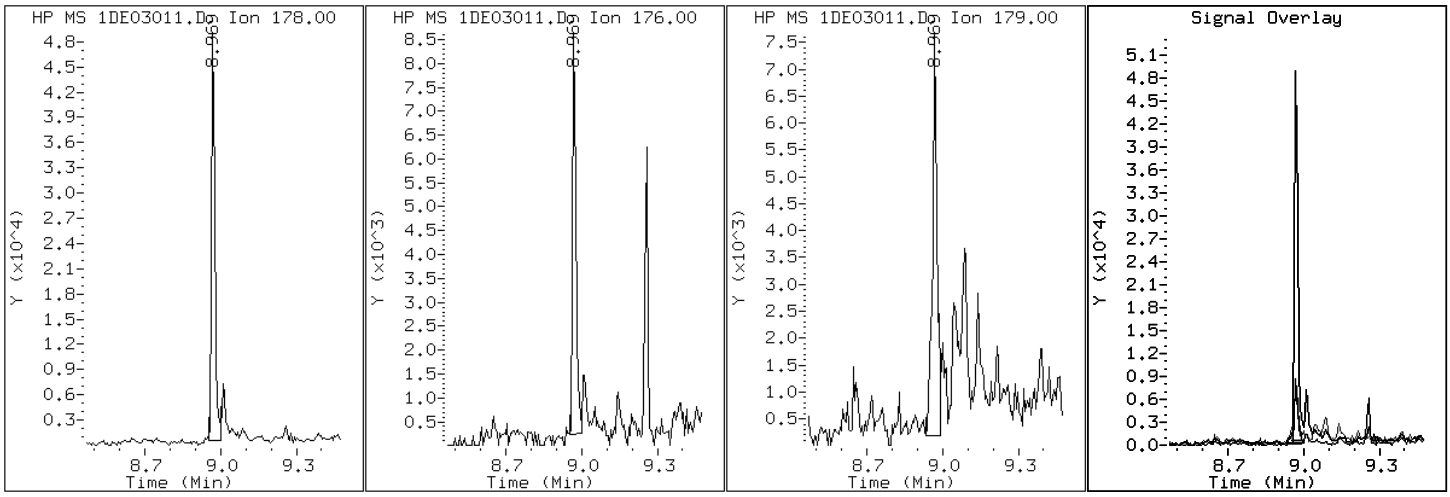
Data File: 1DE03011.D

Date: 03-MAY-2013 13:44

Client ID: CV0282A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-40-a Operator: SCC

10 Phenanthrene



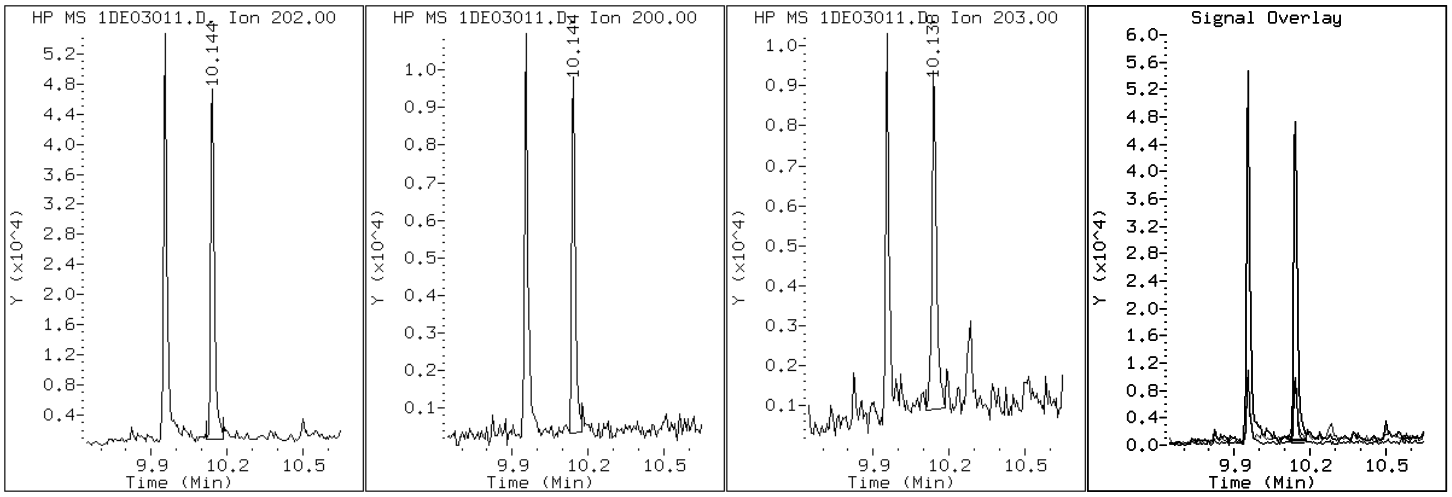
Data File: 1DE03011.D

Date: 03-MAY-2013 13:44

Client ID: CV0282A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-40-a Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DE03011.D
Inj. Date and Time: 03-MAY-2013 13:44
Instrument ID: BSMSD.i
Client ID: CV0282A-CS-SP
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/06/2013

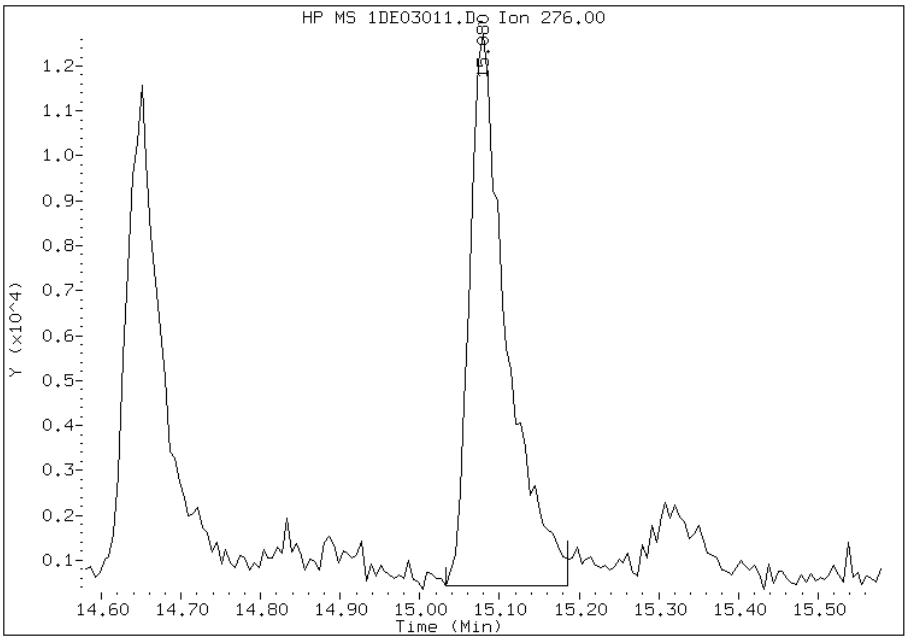
Processing Integration Results

RT: 15.08

Response: 40165

Amount: 1

Conc: 75



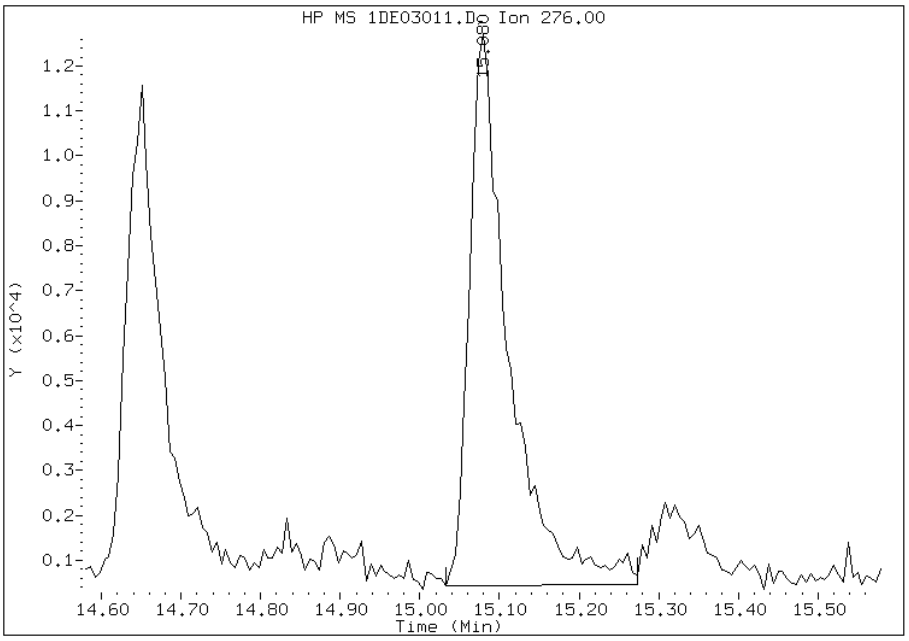
Manual Integration Results

RT: 15.08

Response: 42686

Amount: 1

Conc: 80



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:32
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03011.D
Inj. Date and Time: 03-MAY-2013 13:44
Instrument ID: BSMSD.i
Client ID: CV0282A-CS-SP
Compound: 14 Fluoranthene
CAS #: 206-44-0
Report Date: 05/06/2013

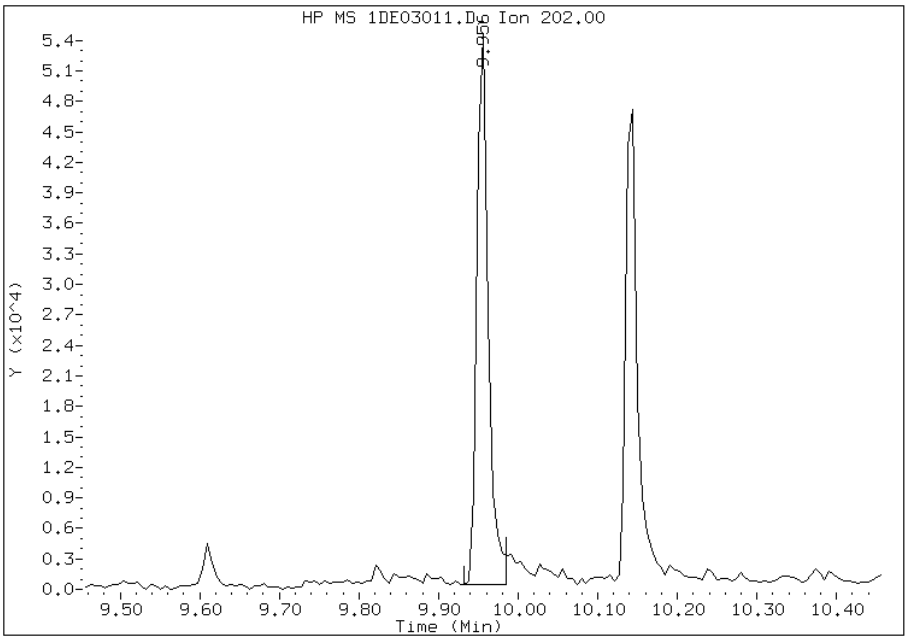
Processing Integration Results

RT: 9.96

Response: 53988

Amount: 1

Conc: 99



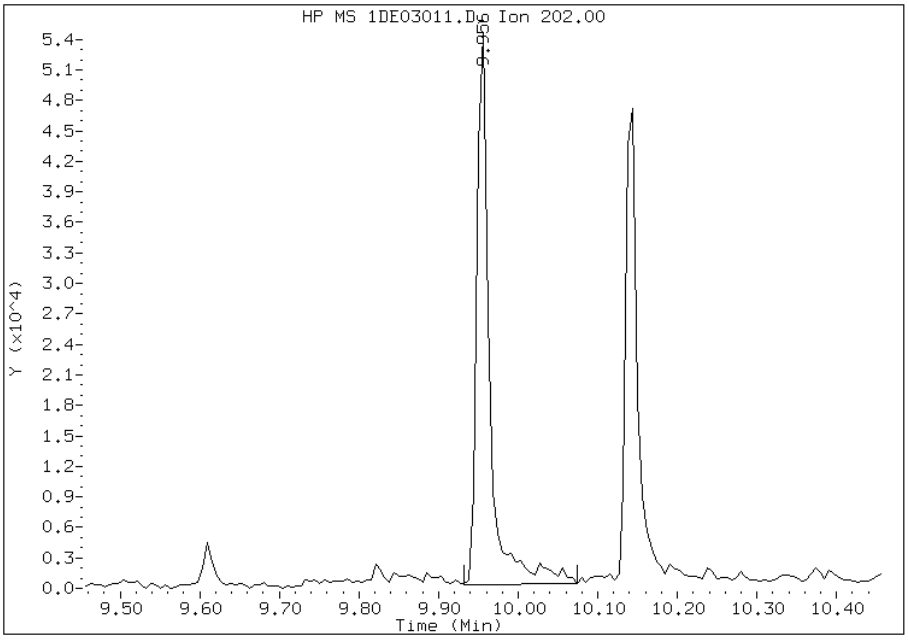
Manual Integration Results

RT: 9.96

Response: 61341

Amount: 1

Conc: 113



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:32
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03011.D
Inj. Date and Time: 03-MAY-2013 13:44
Instrument ID: BSMSD.i
Client ID: CV0282A-CS-SP
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/06/2013

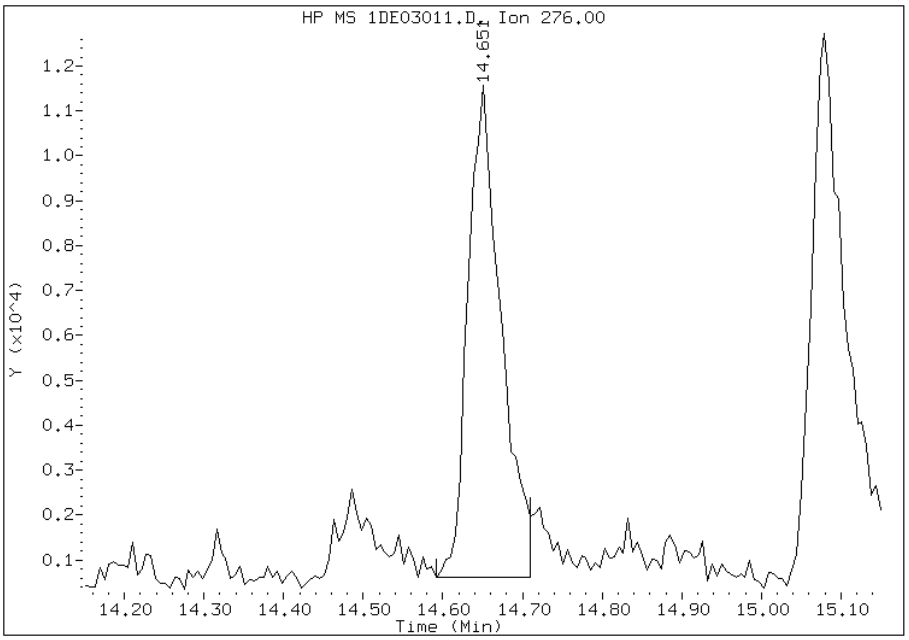
Processing Integration Results

RT: 14.65

Response: 31609

Amount: 1

Conc: 57



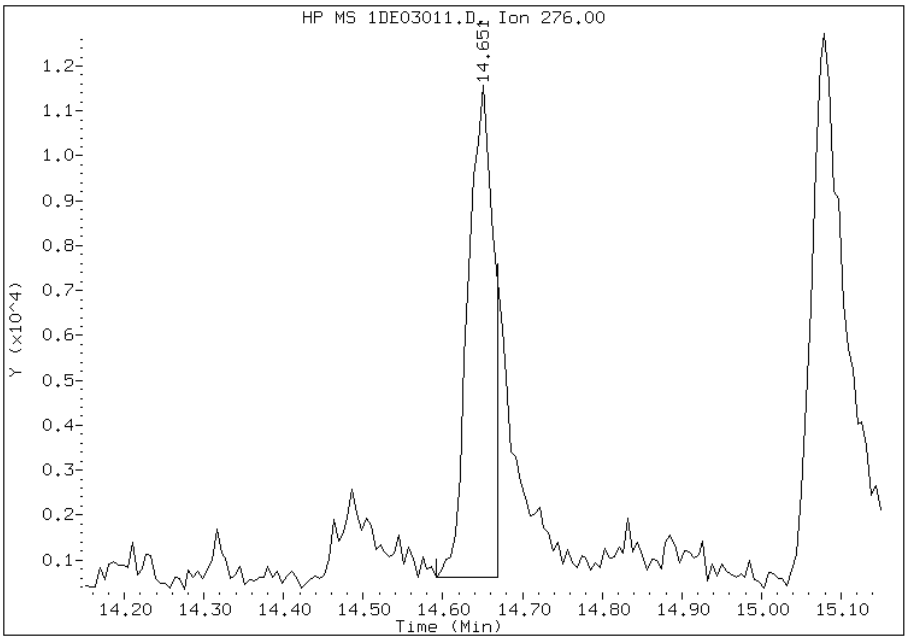
Manual Integration Results

RT: 14.65

Response: 24319

Amount: 1

Conc: 44



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:32
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DE03011.D
Inj. Date and Time: 03-MAY-2013 13:44
Instrument ID: BSMSD.i
Client ID: CV0282A-CS-SP
Compound: 4 1-Methylnaphthalene
CAS #: 90-12-0
Report Date: 05/06/2013

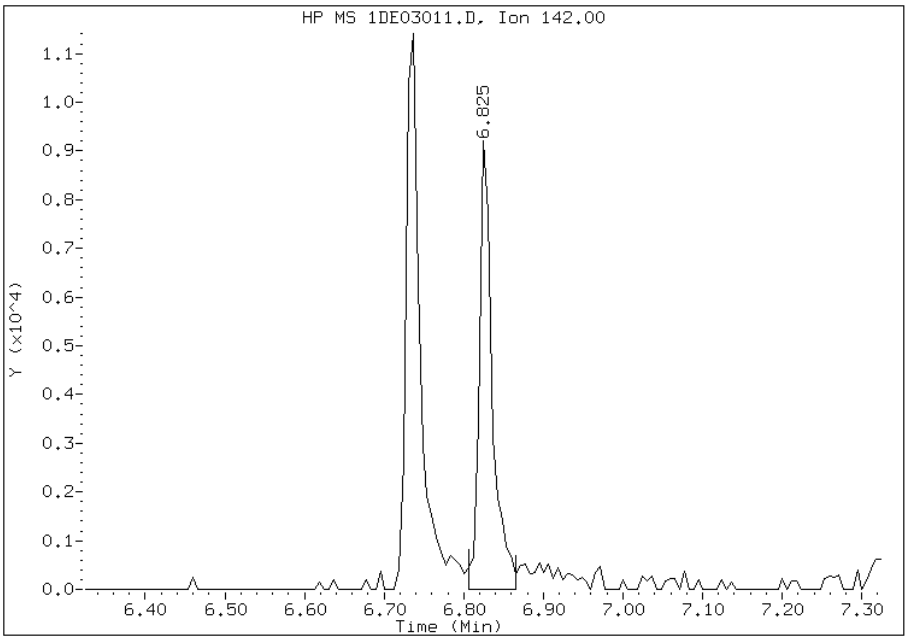
Processing Integration Results

RT: 6.82

Response: 10506

Amount: 0

Conc: 40



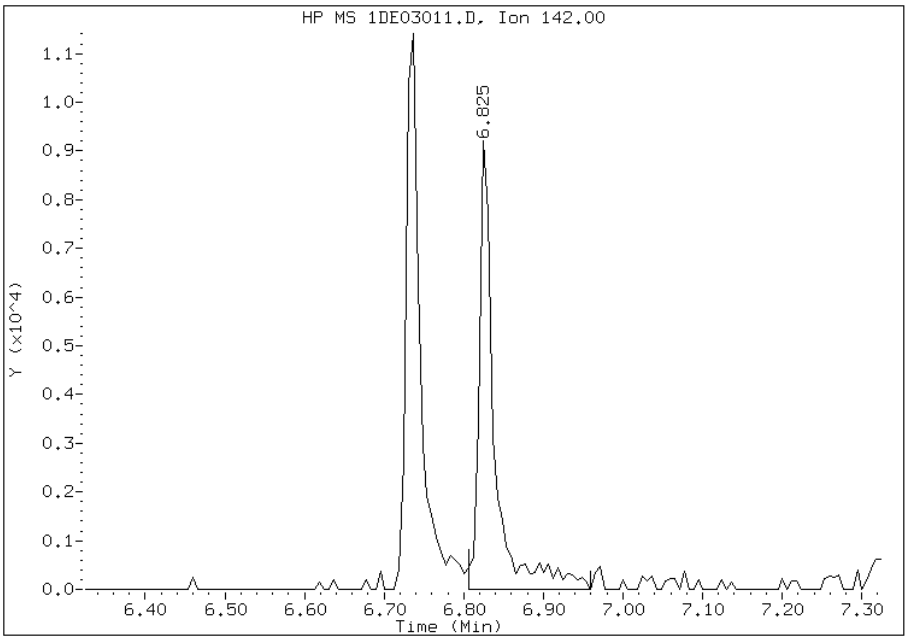
Manual Integration Results

RT: 6.82

Response: 12305

Amount: 1

Conc: 46



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:31
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03011.D
Inj. Date and Time: 03-MAY-2013 13:44
Instrument ID: BSMSD.i
Client ID: CV0282A-CS-SP
Compound: 3 2-Methylnaphthalene
CAS #: 91-57-6
Report Date: 05/06/2013

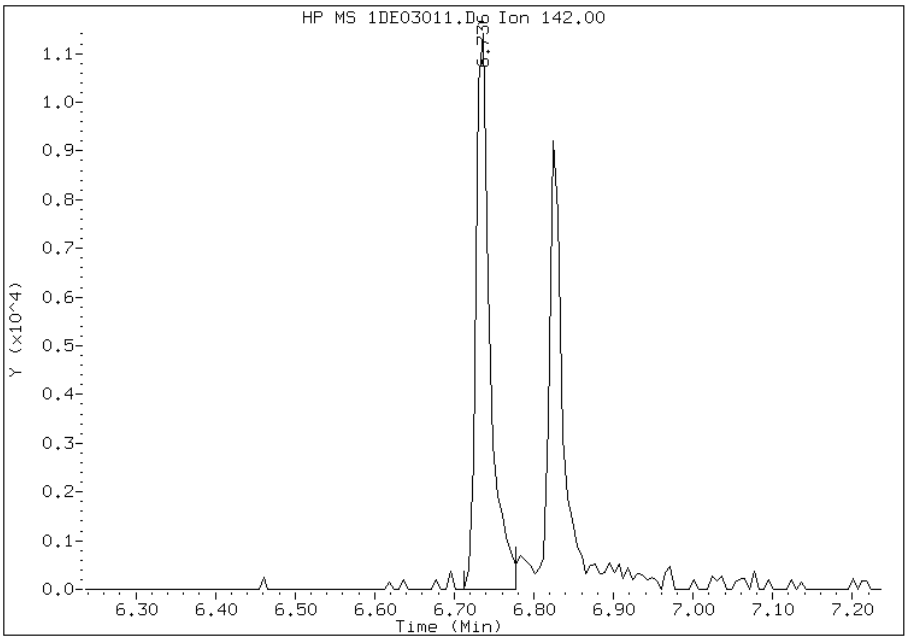
Processing Integration Results

RT: 6.74

Response: 14038

Amount: 1

Conc: 50



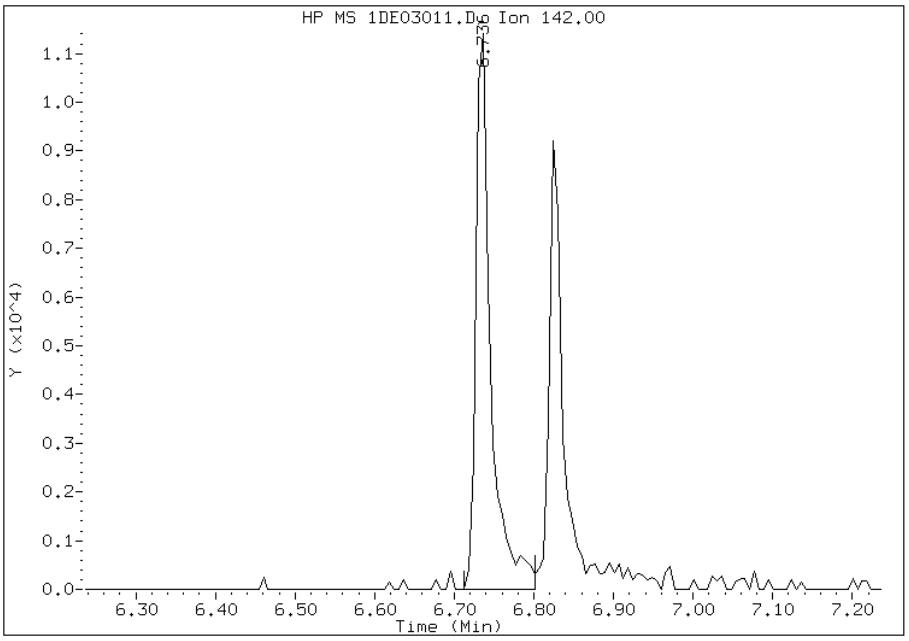
Manual Integration Results

RT: 6.74

Response: 14772

Amount: 1

Conc: 53



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:31
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03011.D
Inj. Date and Time: 03-MAY-2013 13:44
Instrument ID: BSMSD.i
Client ID: CV0282A-CS-SP
Compound: 2 Naphthalene
CAS #: 91-20-3
Report Date: 05/06/2013

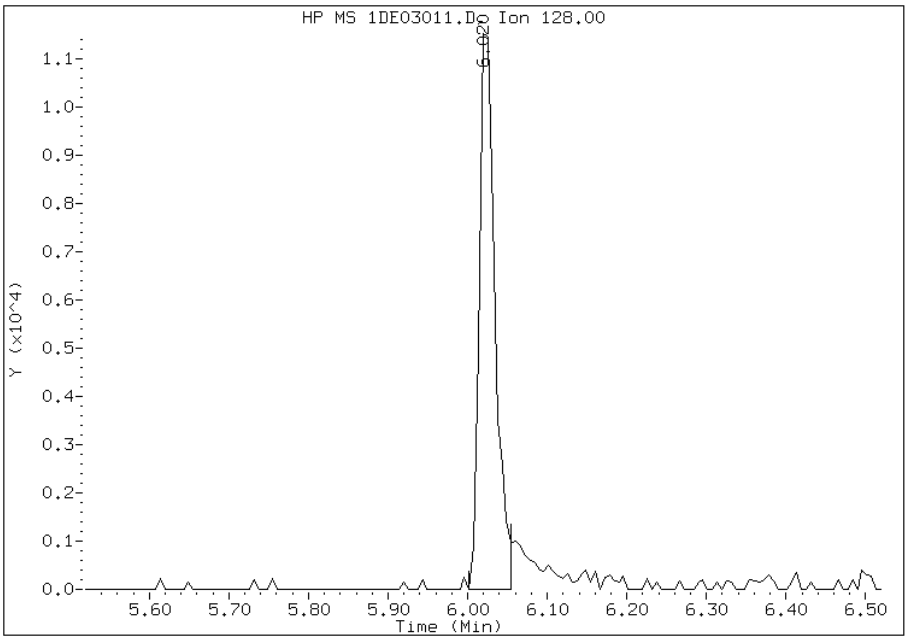
Processing Integration Results

RT: 6.02

Response: 15885

Amount: 0

Conc: 37



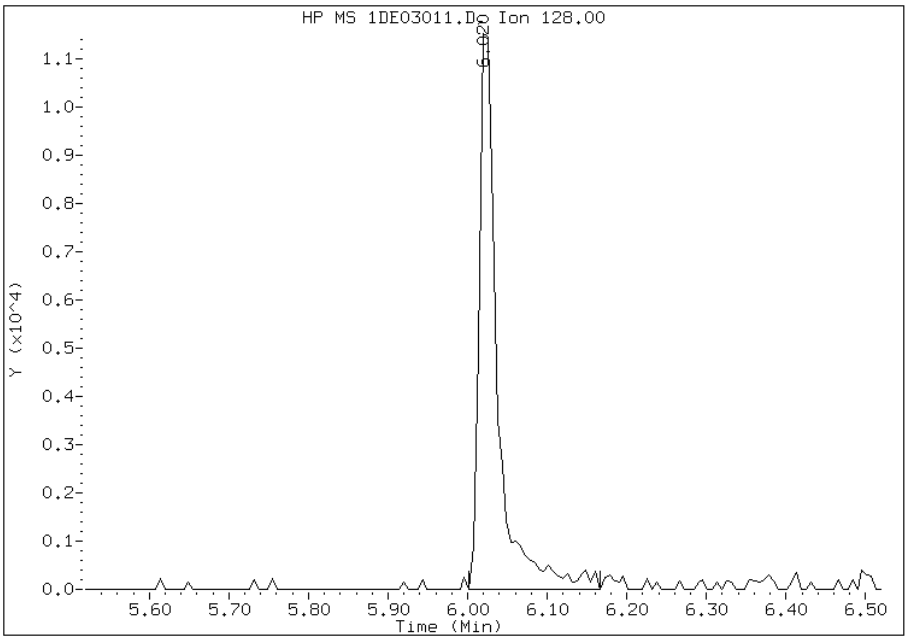
Manual Integration Results

RT: 6.02

Response: 18568

Amount: 0

Conc: 43



Manually Integrated By: cantins
Modification Date: 06-May-2013 13:31
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: FM0023A-CS-SP | Lab Sample ID: 680-89791-42

Matrix: Solid | Lab File ID: 1DE03015.D

Analysis Method: 8270C LL | Date Collected: 04/25/2013 14:02

Extract. Method: 3546 | Date Extracted: 05/02/2013 08:14

Sample wt/vol: 14.94(g) | Date Analyzed: 05/03/2013 15:14

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137126 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	8.0	J	48	6.0
120-12-7	Anthracene	16		10	5.1
56-55-3	Benzo[a]anthracene	76		9.7	4.7
50-32-8	Benzo[a]pyrene	73		13	6.3
205-99-2	Benzo[b]fluoranthene	150		15	7.4
191-24-2	Benzo[g,h,i]perylene	81		24	5.3
207-08-9	Benzo[k]fluoranthene	57		9.7	4.3
218-01-9	Chrysene	370		11	5.4
53-70-3	Dibenz(a,h)anthracene	29		24	4.9
206-44-0	Fluoranthene	160		24	4.8
86-73-7	Fluorene	13	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	28		24	8.6
90-12-0	1-Methylnaphthalene	230		48	5.3
91-57-6	2-Methylnaphthalene	300		48	8.6
91-20-3	Naphthalene	120		48	5.3
85-01-8	Phenanthrene	330		9.7	4.7
129-00-0	Pyrene	130		24	4.5

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D050313.b\1DE03015.D
Lab Smp Id: 680-89791-A-42-A Client Smp ID: FM0023A-CS-SP
Inj Date : 03-MAY-2013 15:14
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89791-a-42-a
Misc Info : 680-89791-A-42-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D050313.b\dFASTPAHi.m
Meth Date : 03-May-2013 10:55 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 16
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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	16.807	% 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	6.001	6.004	(1.000)	1408046	40.0000	
*	6 Acenaphthene-d10	164	7.688	7.690	(1.000)	928501	40.0000	
*	9 Phenanthrene-d10	188	8.957	8.953	(1.000)	1551187	40.0000	
$	13 o-Terphenyl	230	9.256	9.259	(1.033)	138922	5.94387	480
*	17 Chrysene-d12	240	11.260	11.257	(1.000)	1645269	40.0000	
*	22 Perylene-d12	264	13.081	13.066	(1.000)	1696248	40.0000	
	2 Naphthalene	128	6.025	6.027	(1.004)	52946	1.51284	120(M)
	3 2-Methylnaphthalene	142	6.736	6.738	(1.122)	85487	3.78393	300
	4 1-Methylnaphthalene	142	6.830	6.826	(1.138)	61886	2.90070	230(M)
	5 Acenaphthylene	152	7.564	7.561	(0.984)	3910	0.09950	8.0(Q)
	8 Fluorene	166	8.158	8.160	(1.061)	4485	0.15613	12(Q)
	10 Phenanthrene	178	8.974	8.971	(1.002)	174501	4.08410	330
	11 Anthracene	178	9.010	9.012	(1.006)	8654	0.20407	16(Q)
	12 Carbazole	167	9.162	9.159	(1.023)	8767	0.23437	19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	9.961	9.958	(1.112)	89659	2.03918	160
15 Pyrene	202	10.144	10.146	(0.901)	79183	1.60266	130
16 Benzo(a)anthracene	228	11.248	11.239	(0.999)	44824	0.94231	76
18 Chrysene	228	11.283	11.280	(1.002)	207796	4.65890	370
19 Benzo(b)fluoranthene	252	12.535	12.526	(0.958)	80745	1.90559	150(M)
20 Benzo(k)fluoranthene	252	12.558	12.567	(0.960)	31514	0.70596	57(QMH)
21 Benzo(a)pyrene	252	12.987	12.978	(0.993)	38828	0.91200	73
23 Indeno(1,2,3-cd)pyrene	276	14.662	14.647	(1.121)	15827	0.34863	28(M)
24 Dibenzo(a,h)anthracene	278	14.679	14.670	(1.122)	15291	0.35769	29(M)
25 Benzo(g,h,i)perylene	276	15.097	15.081	(1.154)	44263	1.01262	81(M)

QC Flag Legend

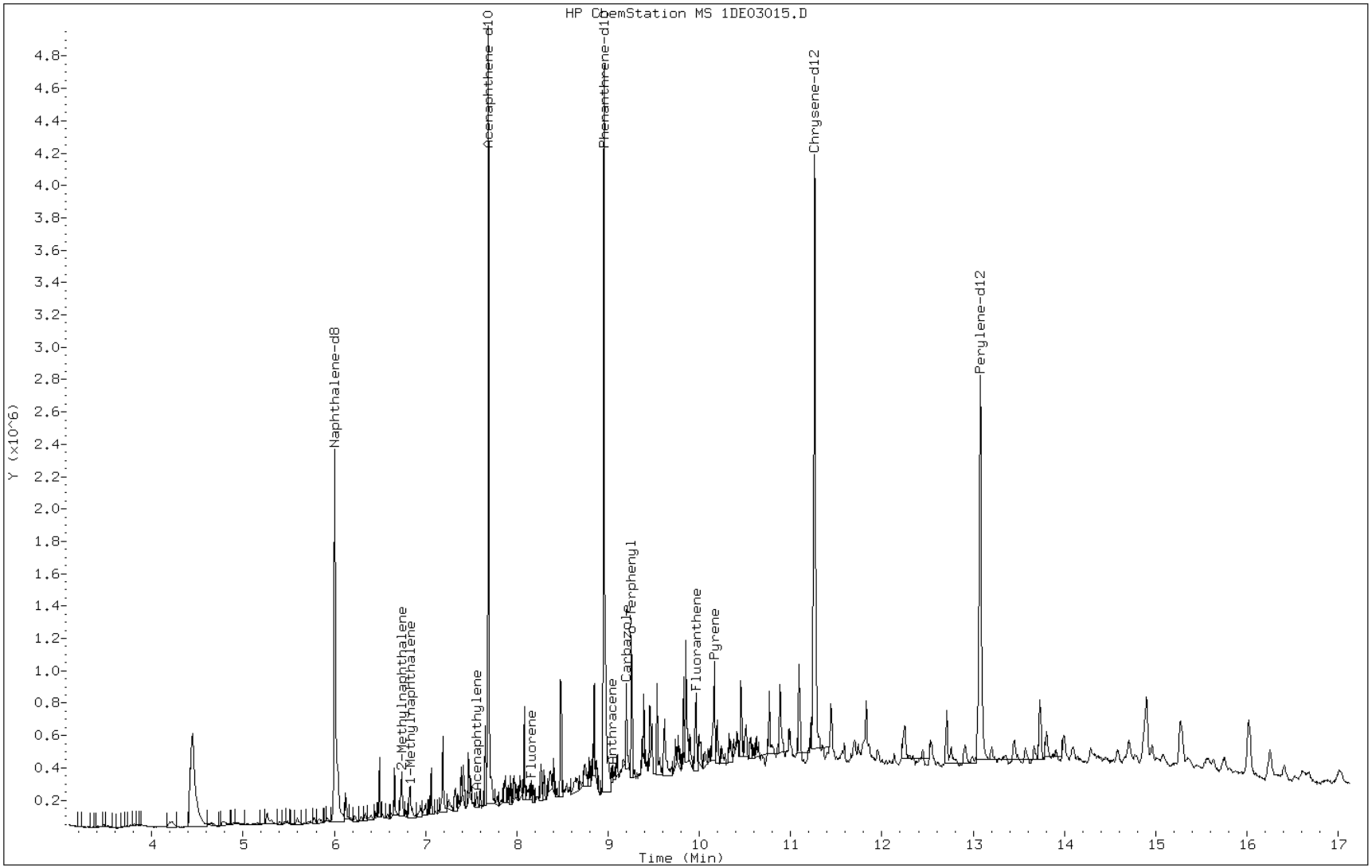
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DE03015.D

Date: 03-MAY-2013 15:14

Client ID: FM0023A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-42-a Operator: SCC



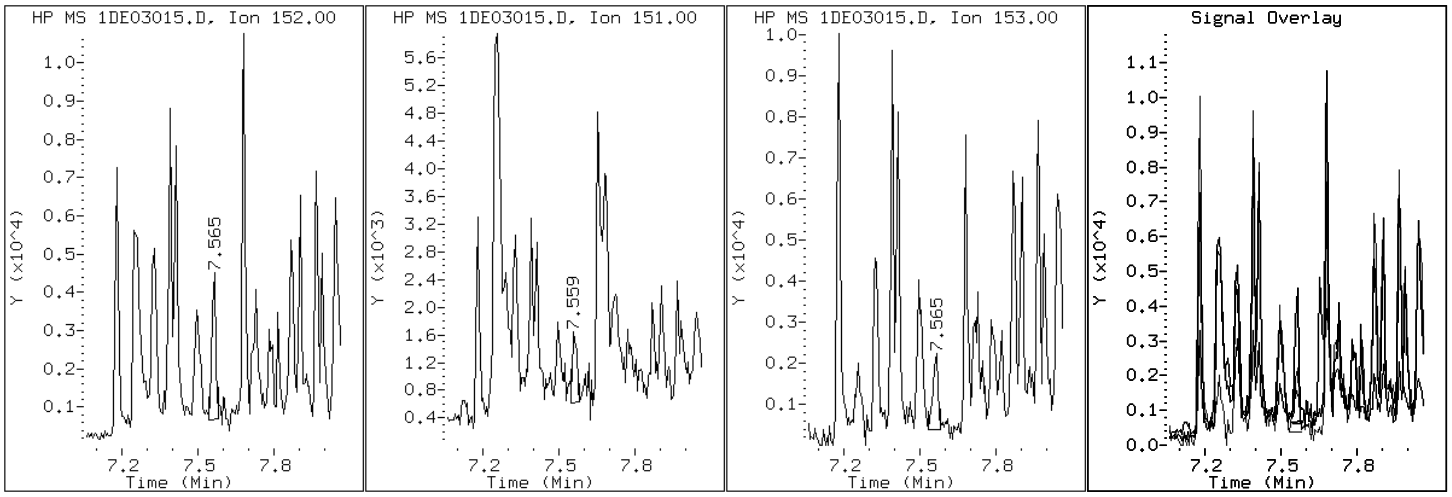
Data File: 1DE03015.D

Date: 03-MAY-2013 15:14

Client ID: FM0023A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-42-a Operator: SCC

5 Acenaphthylene



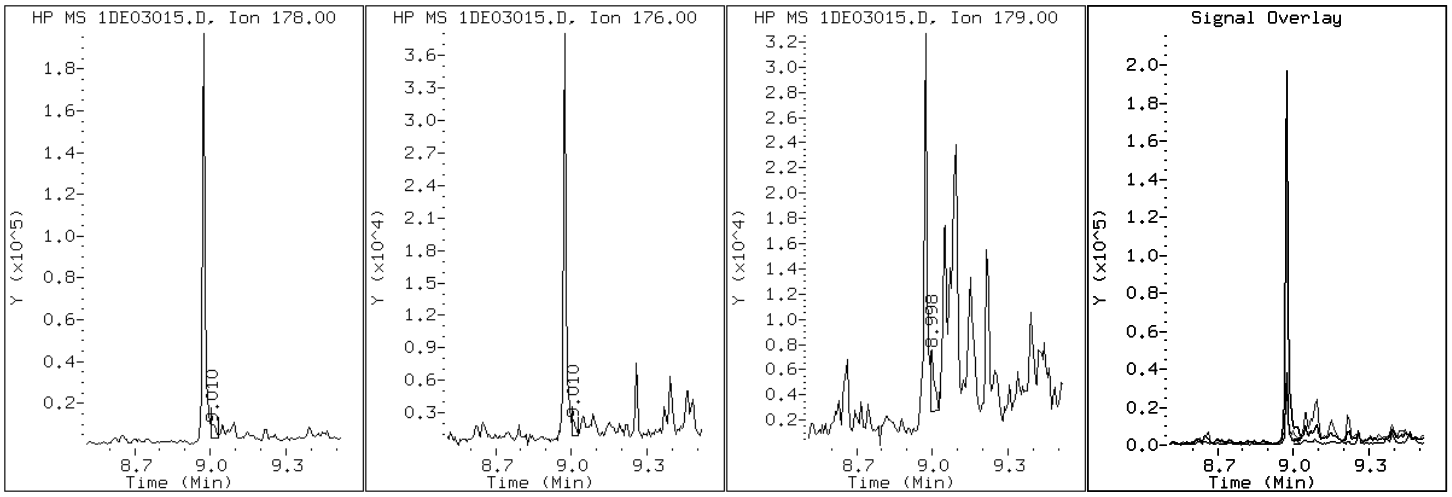
Data File: 1DE03015.D

Date: 03-MAY-2013 15:14

Client ID: FM0023A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-42-a Operator: SCC

11 Anthracene



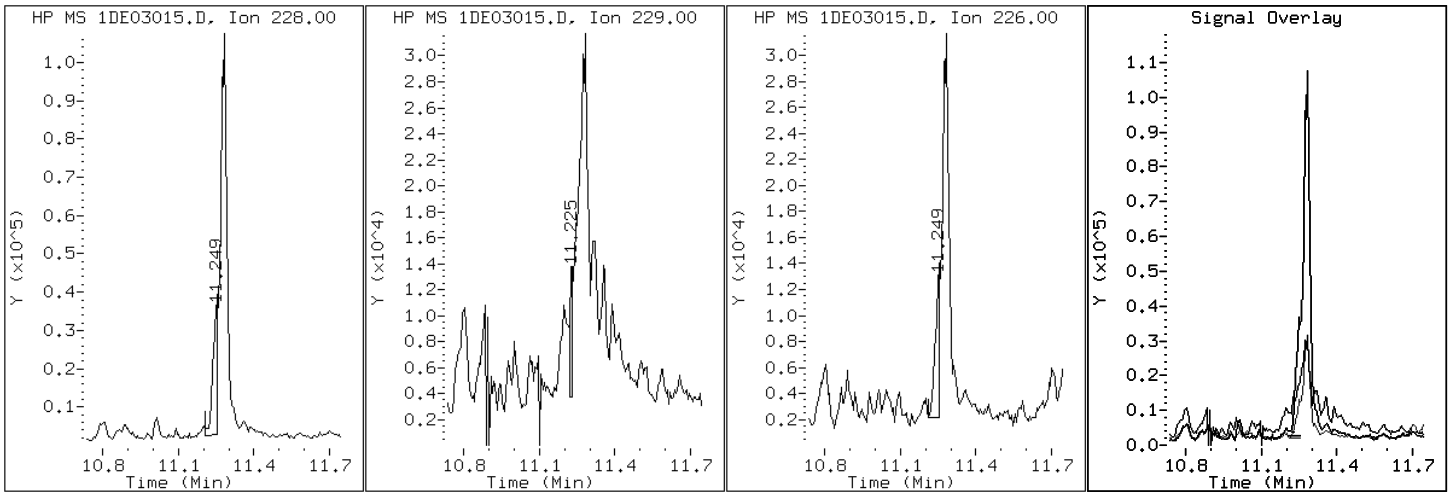
Data File: 1DE03015.D

Date: 03-MAY-2013 15:14

Client ID: FM0023A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-42-a Operator: SCC

16 Benzo(a)anthracene



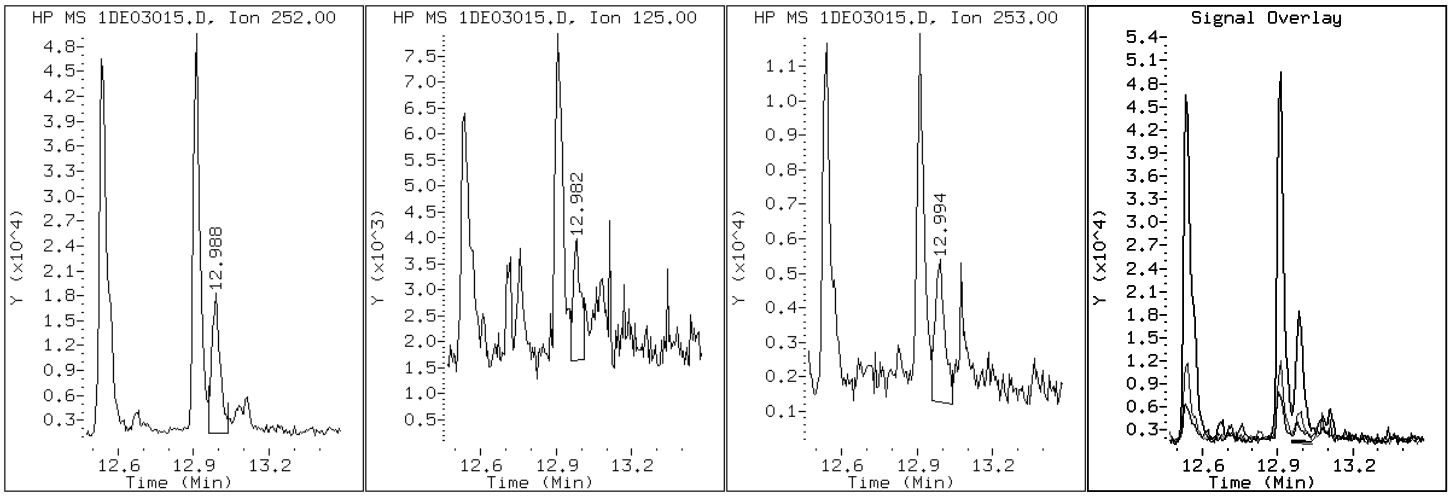
Data File: 1DE03015.D

Date: 03-MAY-2013 15:14

Client ID: FM0023A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-42-a Operator: SCC

21 Benzo(a)pyrene



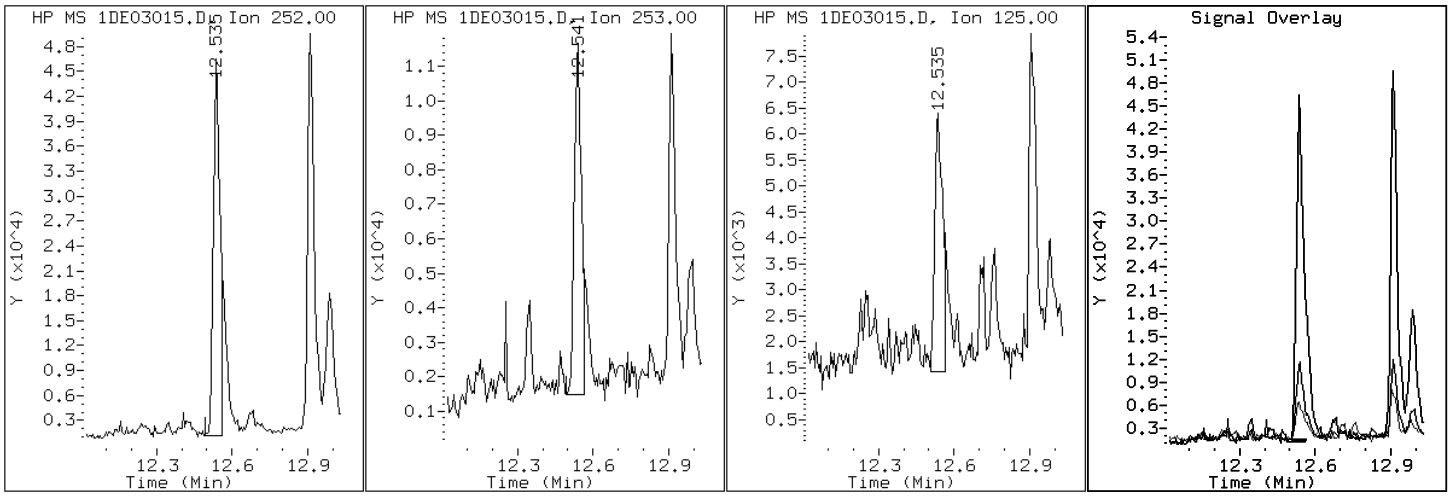
Data File: 1DE03015.D

Date: 03-MAY-2013 15:14

Client ID: FM0023A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-42-a Operator: SCC

19 Benzo(b)fluoranthene



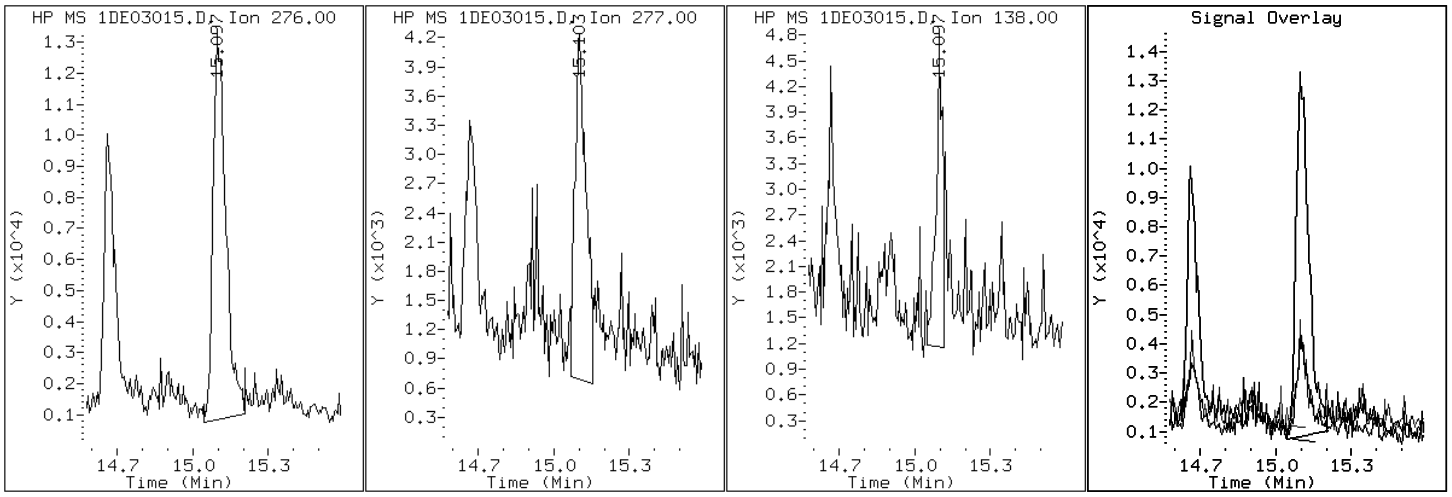
Data File: 1DE03015.D

Date: 03-MAY-2013 15:14

Client ID: FM0023A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-42-a Operator: SCC

25 Benzo(g,h,i)perylene



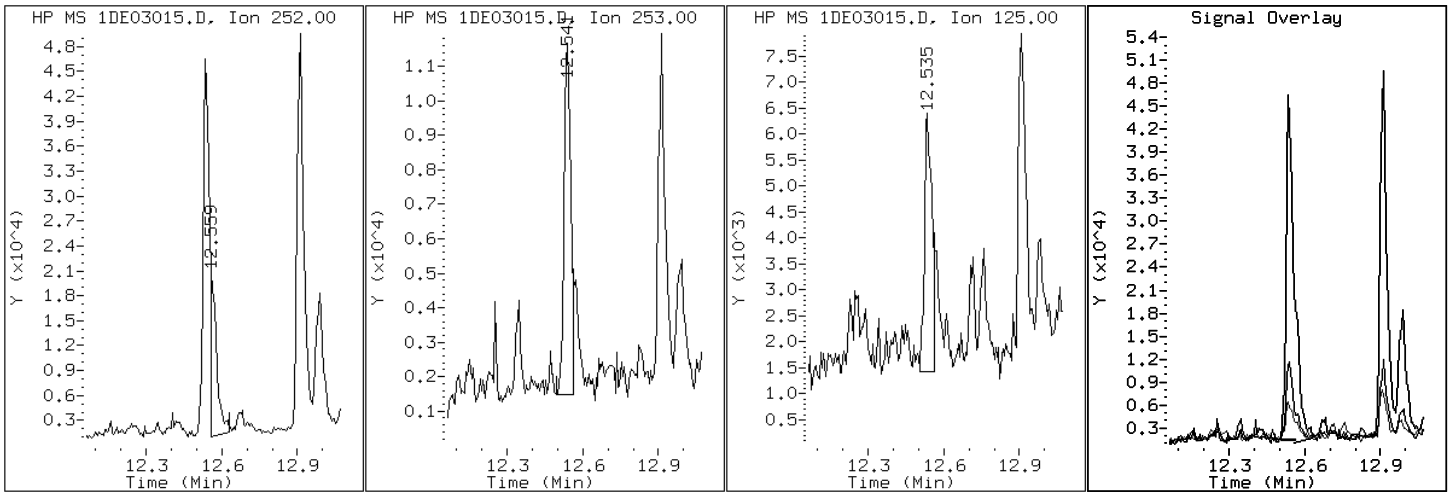
Data File: 1DE03015.D

Date: 03-MAY-2013 15:14

Client ID: FM0023A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-42-a Operator: SCC

20 Benzo(k)fluoranthene



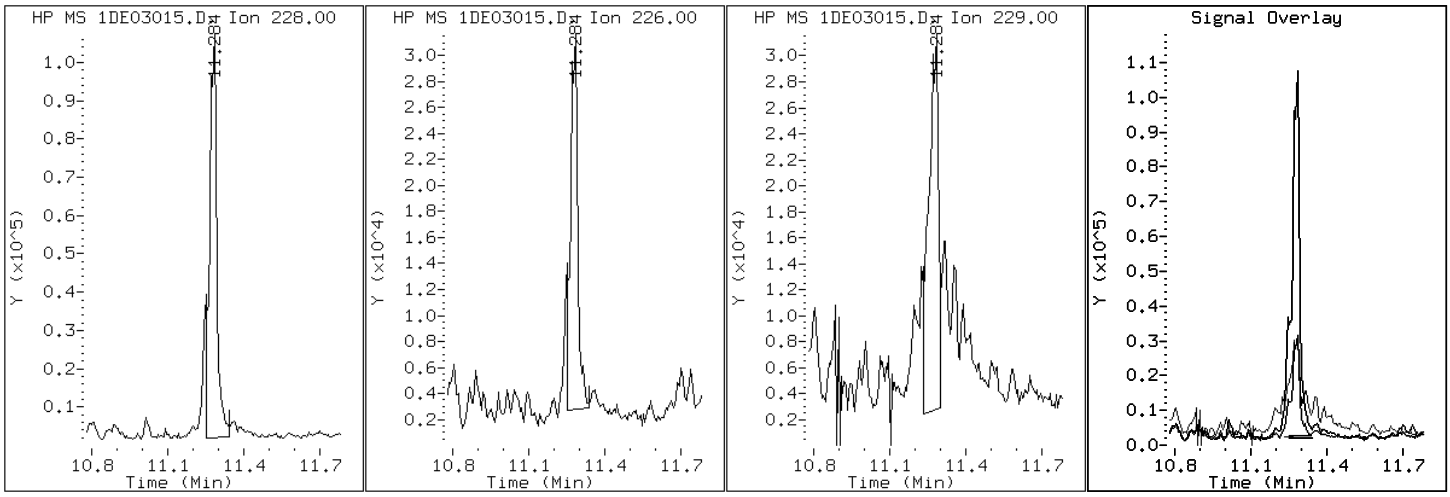
Data File: 1DE03015.D

Date: 03-MAY-2013 15:14

Client ID: FM0023A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-42-a Operator: SCC

18 Chrysene



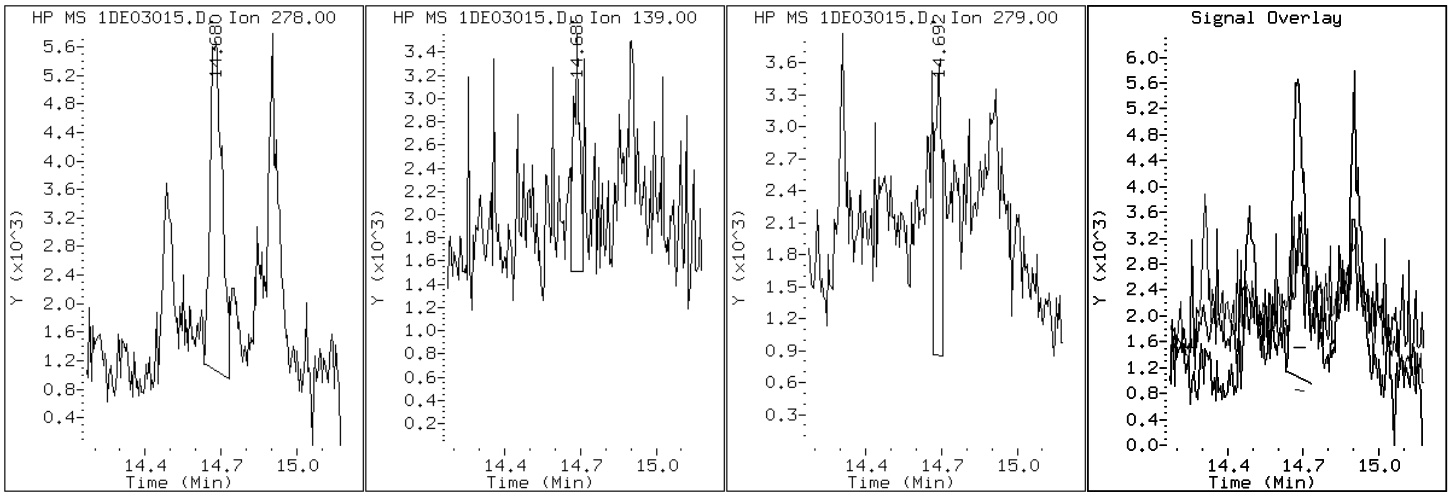
Data File: 1DE03015.D

Date: 03-MAY-2013 15:14

Client ID: FM0023A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-42-a Operator: SCC

24 Dibenzo(a,h)anthracene



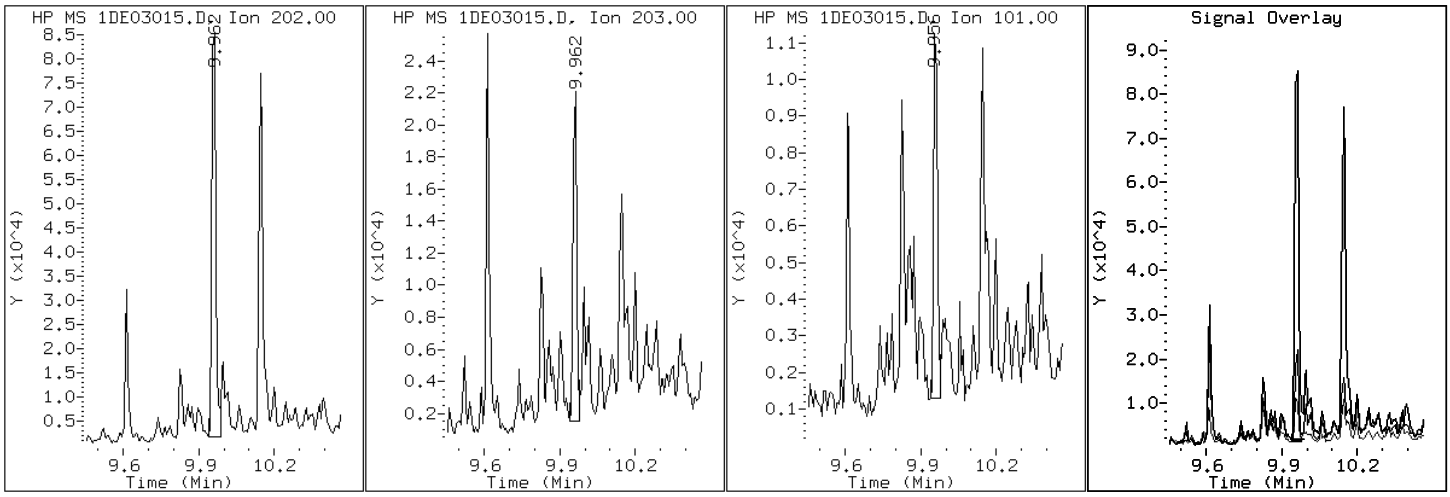
Data File: 1DE03015.D

Date: 03-MAY-2013 15:14

Client ID: FM0023A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-42-a Operator: SCC

14 Fluoranthene



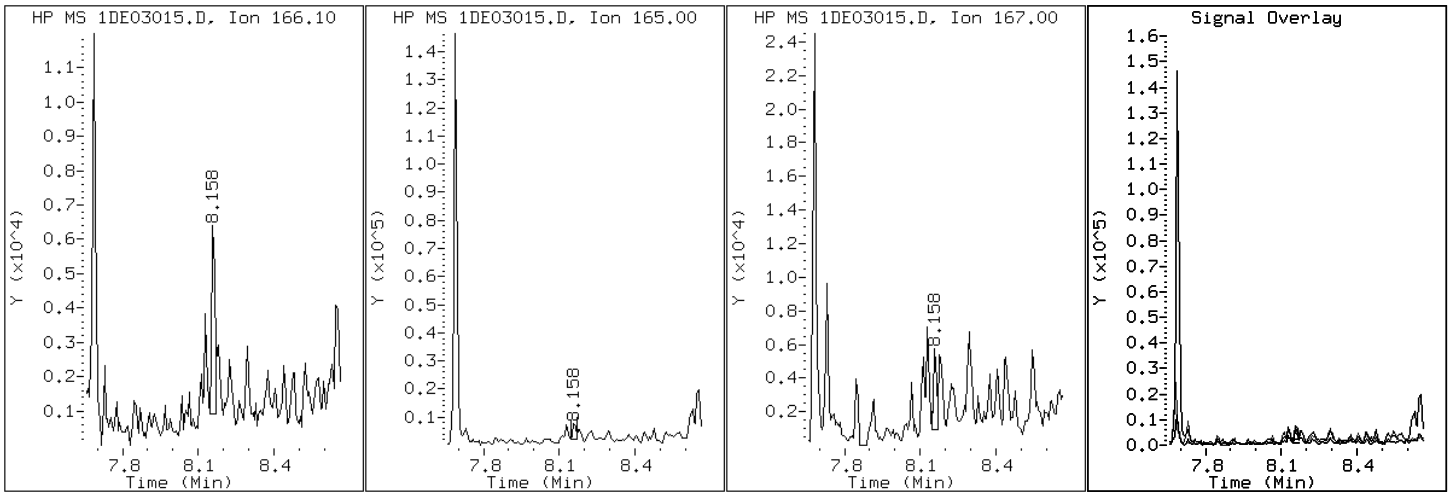
Data File: 1DE03015.D

Date: 03-MAY-2013 15:14

Client ID: FM0023A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-42-a Operator: SCC

8 Fluorene



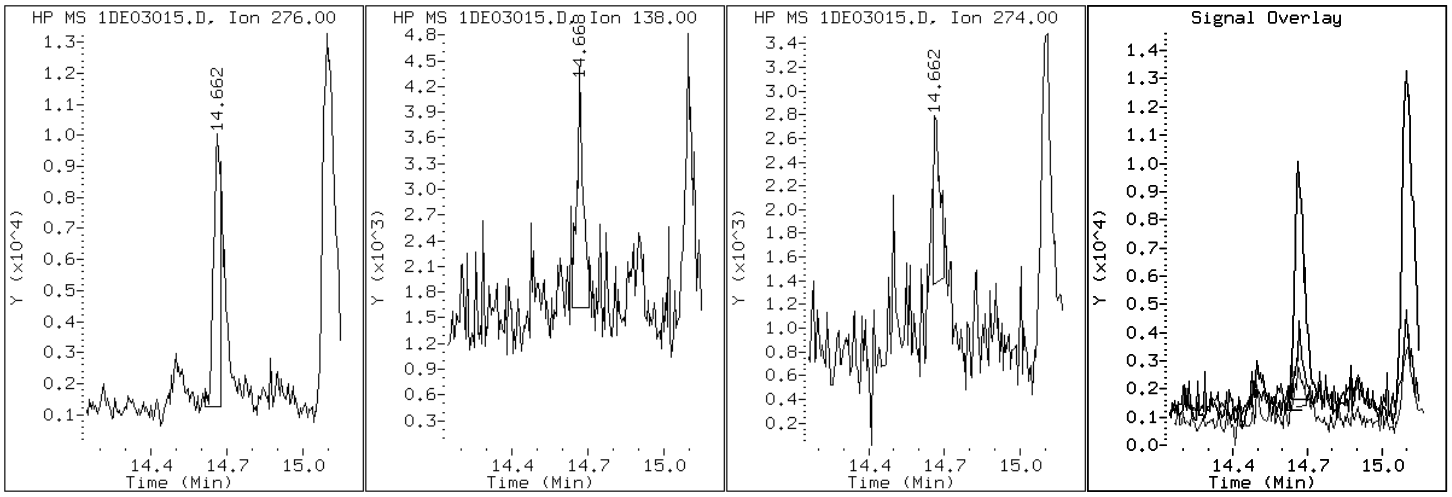
Data File: 1DE03015.D

Date: 03-MAY-2013 15:14

Client ID: FM0023A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-42-a Operator: SCC

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



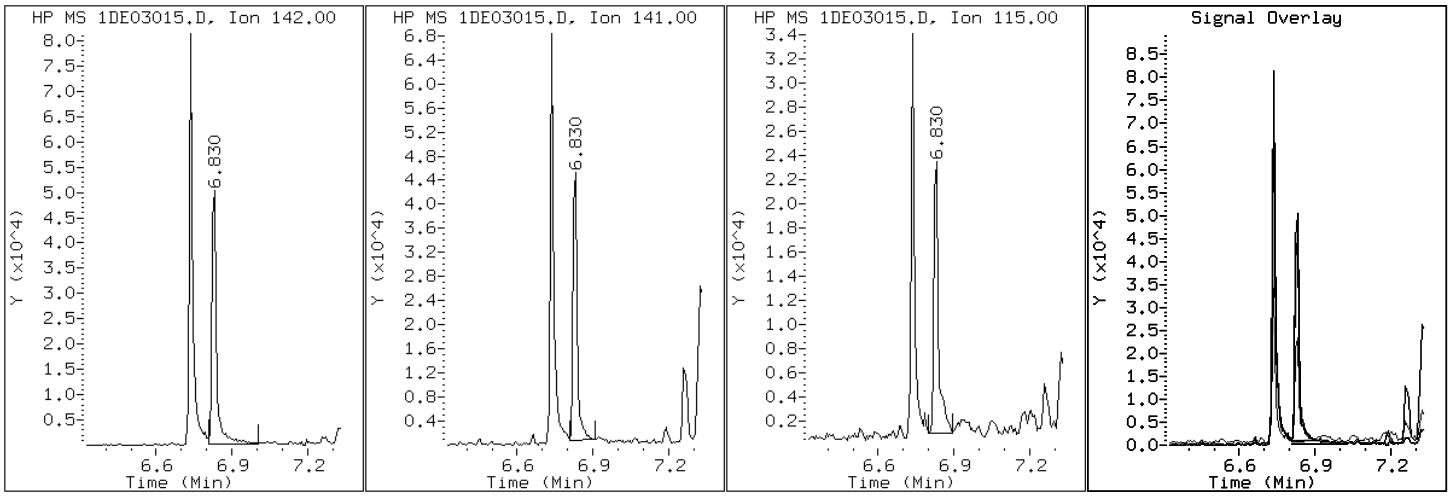
Data File: 1DE03015.D

Date: 03-MAY-2013 15:14

Client ID: FM0023A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-42-a Operator: SCC

4 1-Methylnaphthalene



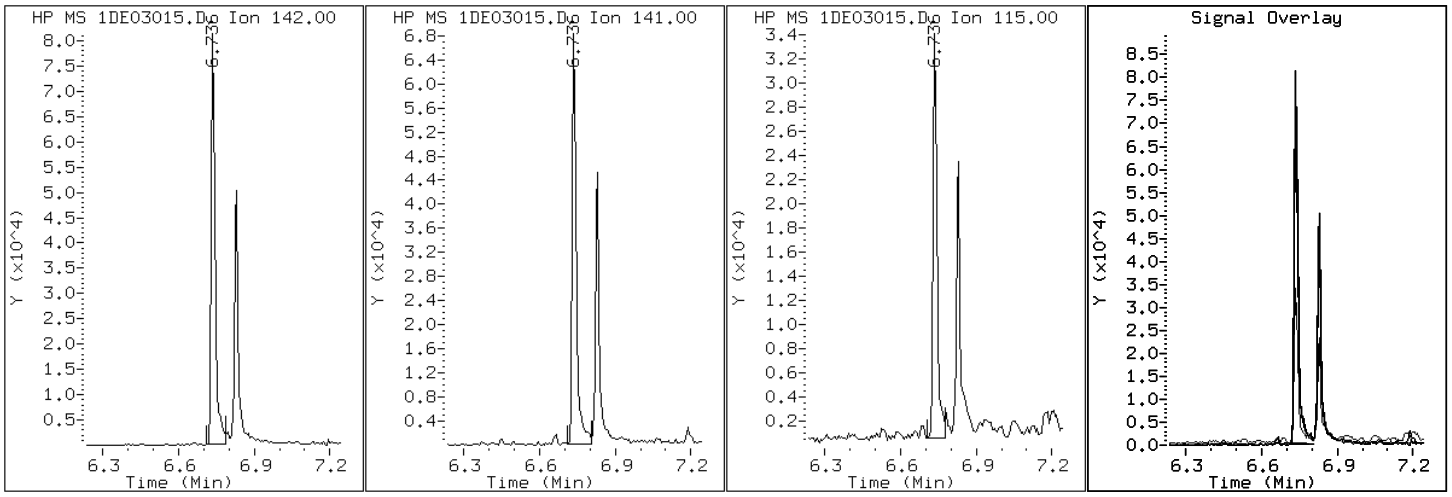
Data File: 1DE03015.D

Date: 03-MAY-2013 15:14

Client ID: FM0023A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-42-a Operator: SCC

3 2-Methylnaphthalene



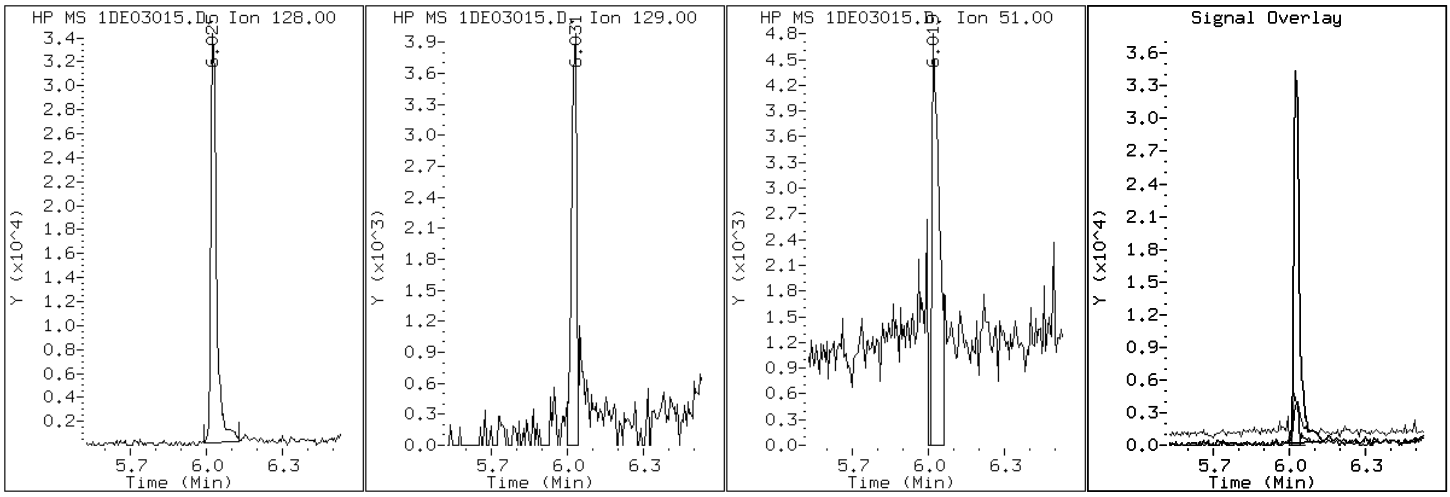
Data File: 1DE03015.D

Date: 03-MAY-2013 15:14

Client ID: FM0023A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-42-a Operator: SCC

2 Naphthalene



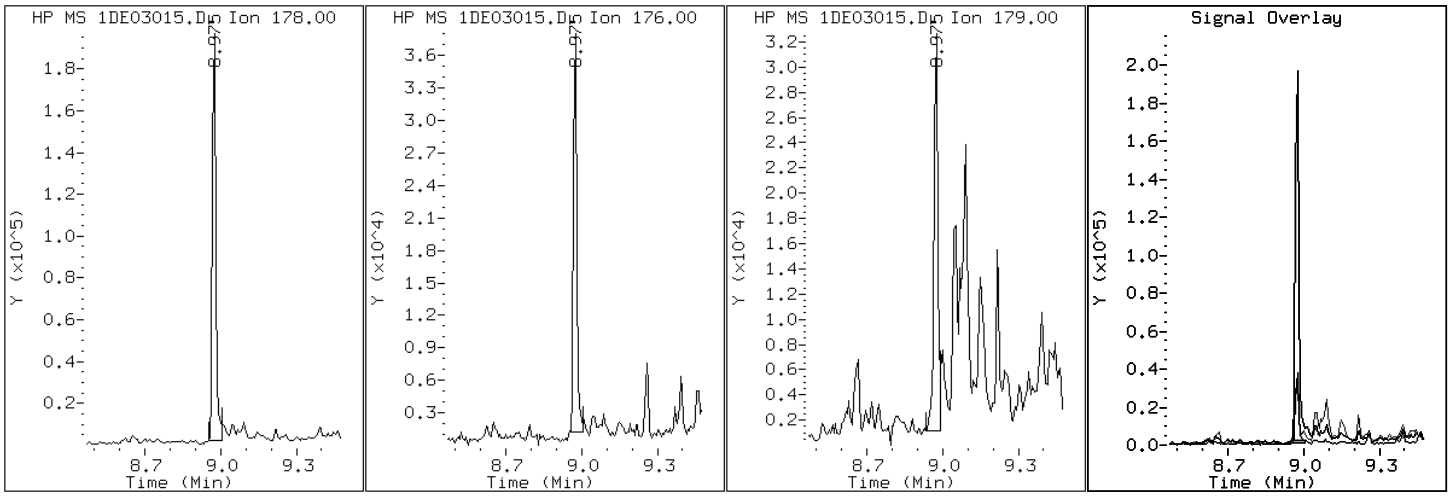
Data File: 1DE03015.D

Date: 03-MAY-2013 15:14

Client ID: FM0023A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-42-a Operator: SCC

10 Phenanthrene



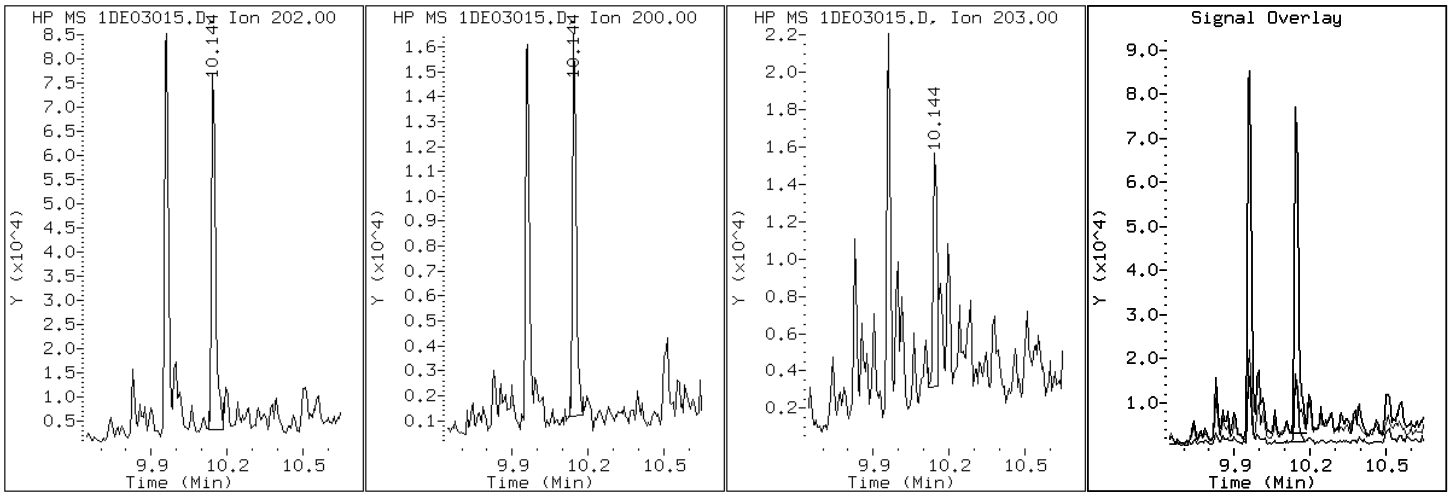
Data File: 1DE03015.D

Date: 03-MAY-2013 15:14

Client ID: FM0023A-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-42-a Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DE03015.D
Inj. Date and Time: 03-MAY-2013 15:14
Instrument ID: BSMSD.i
Client ID: FM0023A-CS-SP
Compound: 19 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/06/2013

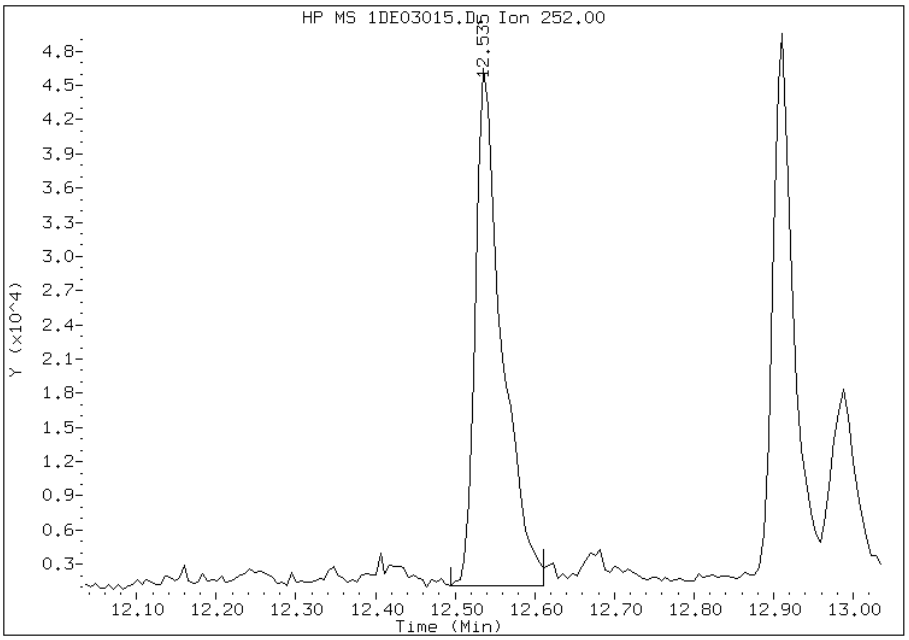
Processing Integration Results

RT: 12.54

Response: 104743

Amount: 2

Conc: 199



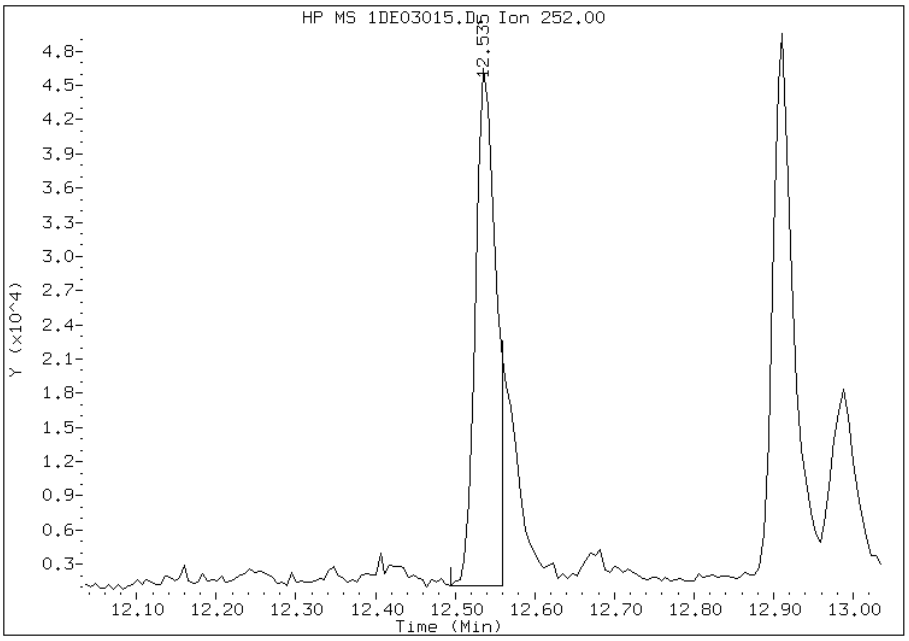
Manual Integration Results

RT: 12.54

Response: 80745

Amount: 2

Conc: 153



Manually Integrated By: cantins
Modification Date: 06-May-2013 15:47
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DE03015.D
Inj. Date and Time: 03-MAY-2013 15:14
Instrument ID: BSMSD.i
Client ID: FM0023A-CS-SP
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/06/2013

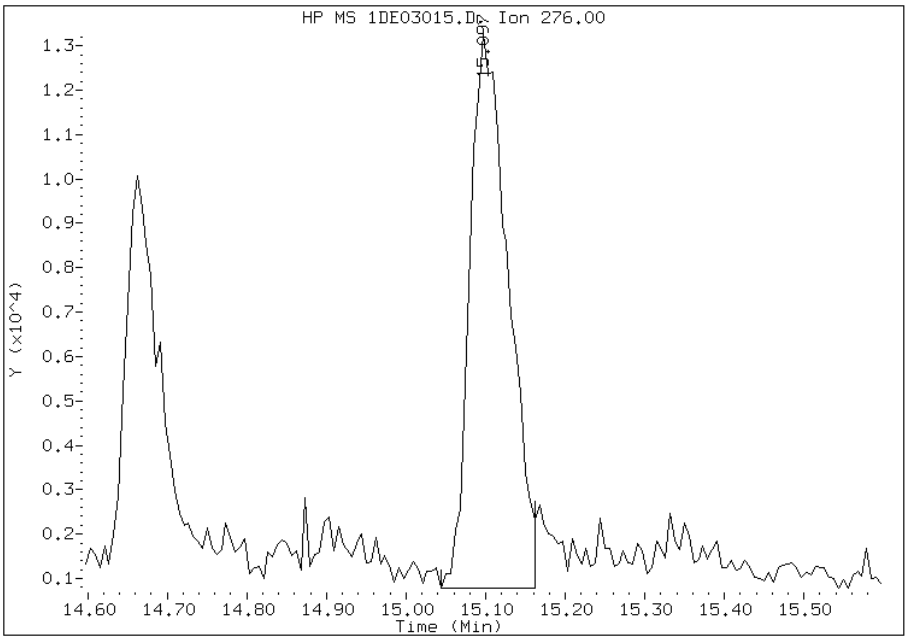
Processing Integration Results

RT: 15.10

Response: 42189

Amount: 1

Conc: 78



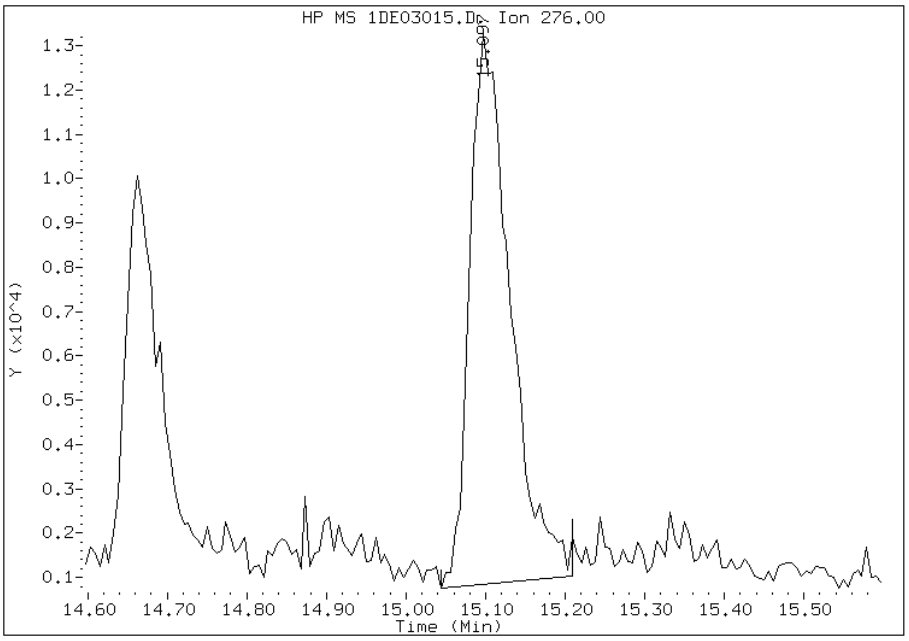
Manual Integration Results

RT: 15.10

Response: 44263

Amount: 1

Conc: 81



Manually Integrated By: cantins
Modification Date: 06-May-2013 15:48
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03015.D
Inj. Date and Time: 03-MAY-2013 15:14
Instrument ID: BSMSD.i
Client ID: FM0023A-CS-SP
Compound: 20 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/06/2013

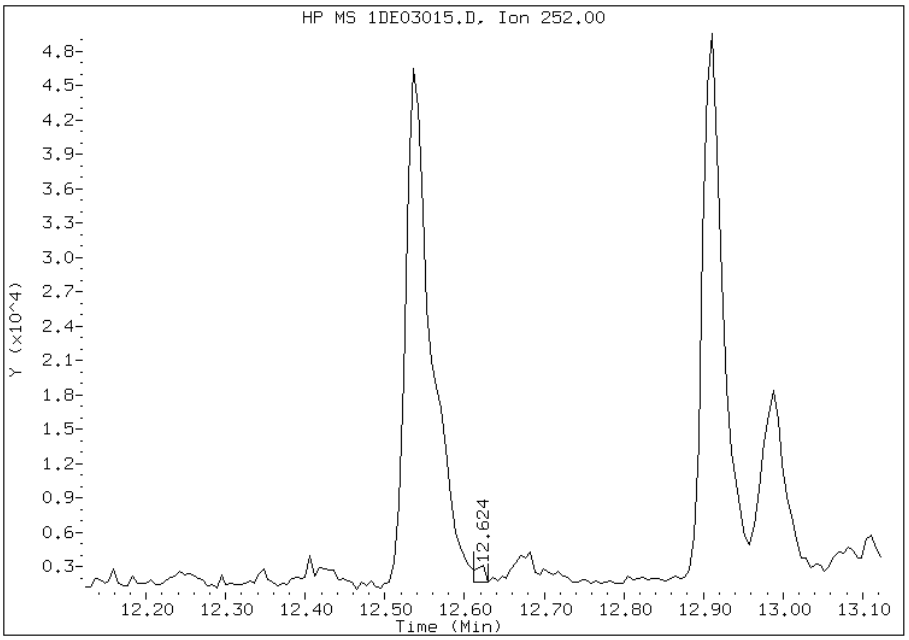
Processing Integration Results

RT: 12.62

Response: 1294

Amount: 0

Conc: 2



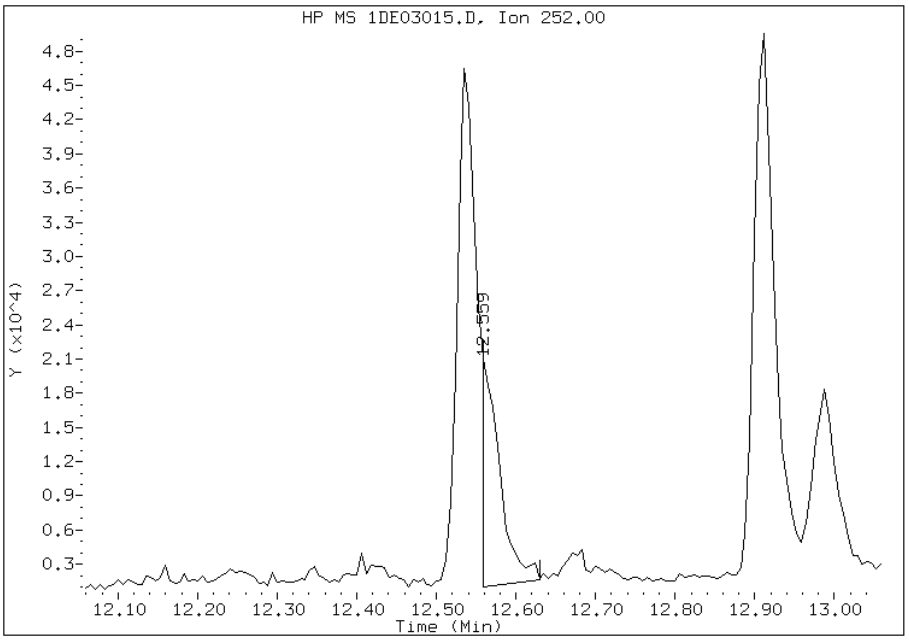
Manual Integration Results

RT: 12.56

Response: 31514

Amount: 1

Conc: 57



Manually Integrated By: cantins
Modification Date: 06-May-2013 15:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03015.D
Inj. Date and Time: 03-MAY-2013 15:14
Instrument ID: BSMSD.i
Client ID: FM0023A-CS-SP
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/06/2013

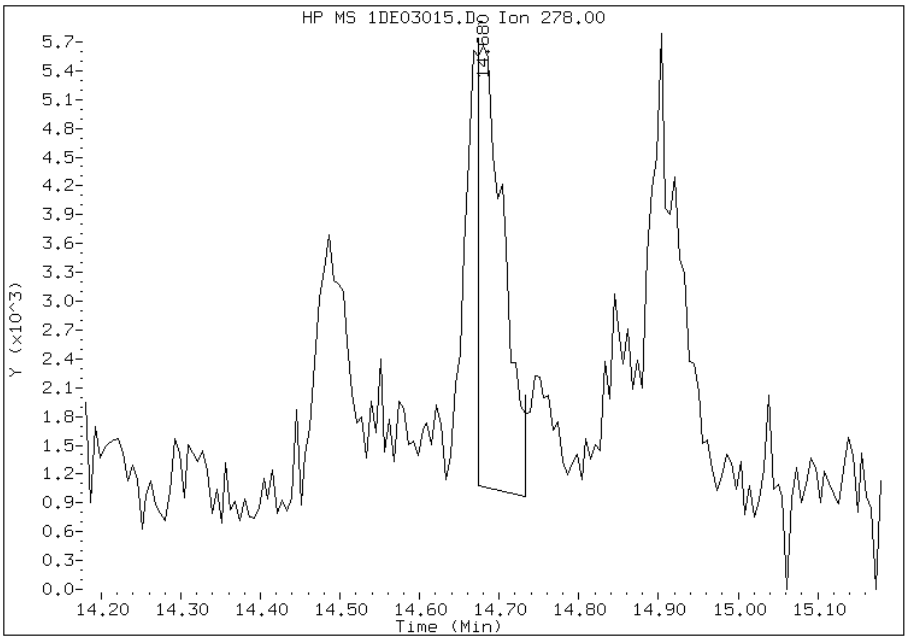
Processing Integration Results

RT: 14.68

Response: 10705

Amount: 0

Conc: 20



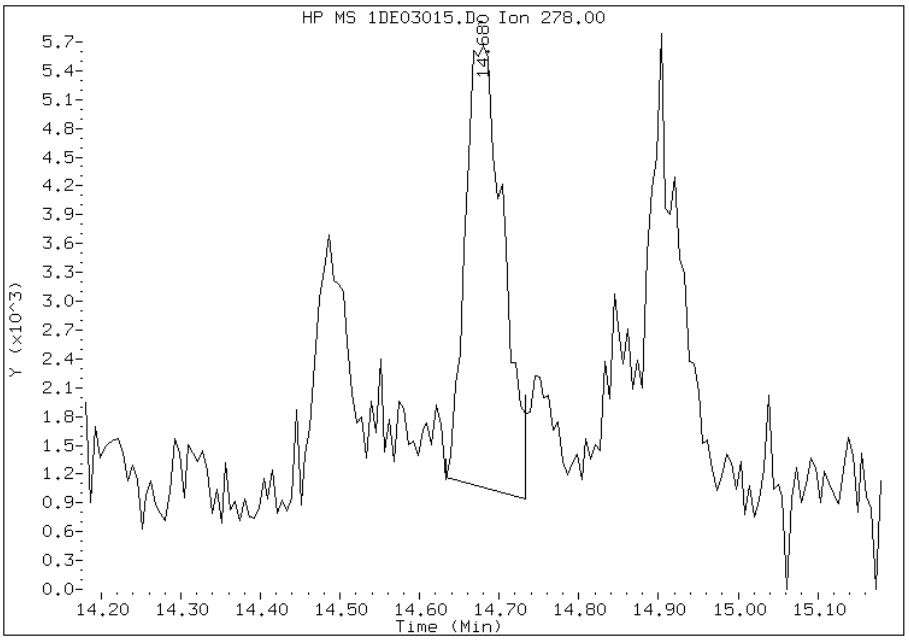
Manual Integration Results

RT: 14.68

Response: 15291

Amount: 0

Conc: 29



Manually Integrated By: cantins
Modification Date: 06-May-2013 15:58
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03015.D
Inj. Date and Time: 03-MAY-2013 15:14
Instrument ID: BSMSD.i
Client ID: FM0023A-CS-SP
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/06/2013

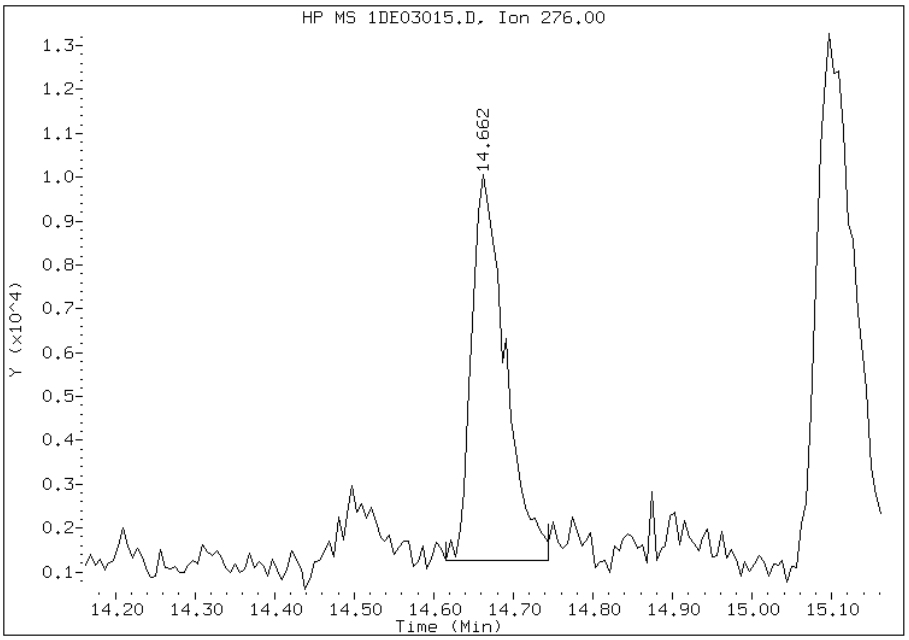
Processing Integration Results

RT: 14.66

Response: 25881

Amount: 1

Conc: 46



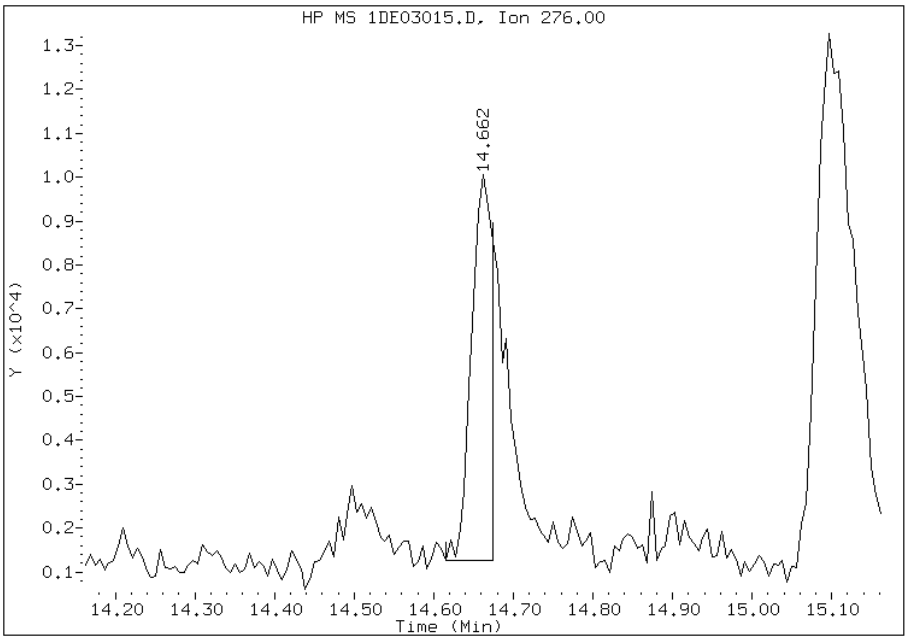
Manual Integration Results

RT: 14.66

Response: 15827

Amount: 0

Conc: 28



Manually Integrated By: cantins
Modification Date: 06-May-2013 15:48
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DE03015.D
Inj. Date and Time: 03-MAY-2013 15:14
Instrument ID: BSMSD.i
Client ID: FM0023A-CS-SP
Compound: 4 1-Methylnaphthalene
CAS #: 90-12-0
Report Date: 05/06/2013

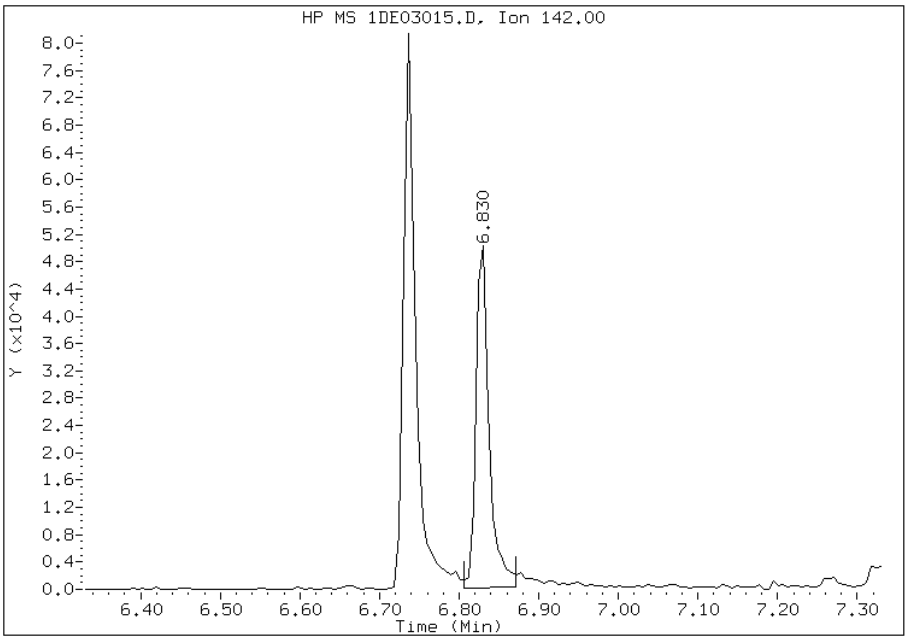
Processing Integration Results

RT: 6.83

Response: 56840

Amount: 3

Conc: 214



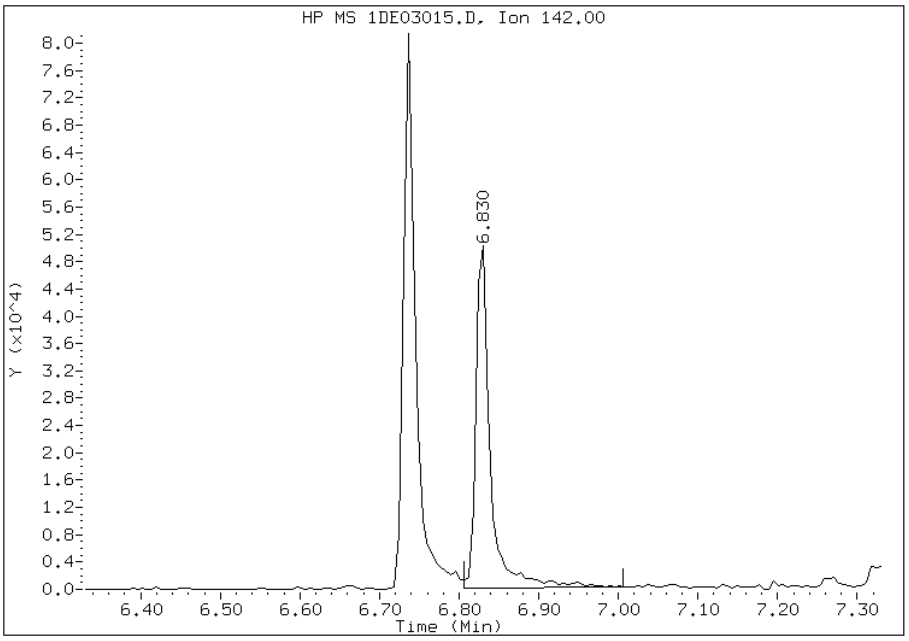
Manual Integration Results

RT: 6.83

Response: 61886

Amount: 3

Conc: 233



Manually Integrated By: cantins
Modification Date: 06-May-2013 15:46
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03015.D
Inj. Date and Time: 03-MAY-2013 15:14
Instrument ID: BSMSD.i
Client ID: FM0023A-CS-SP
Compound: 2 Naphthalene
CAS #: 91-20-3
Report Date: 05/06/2013

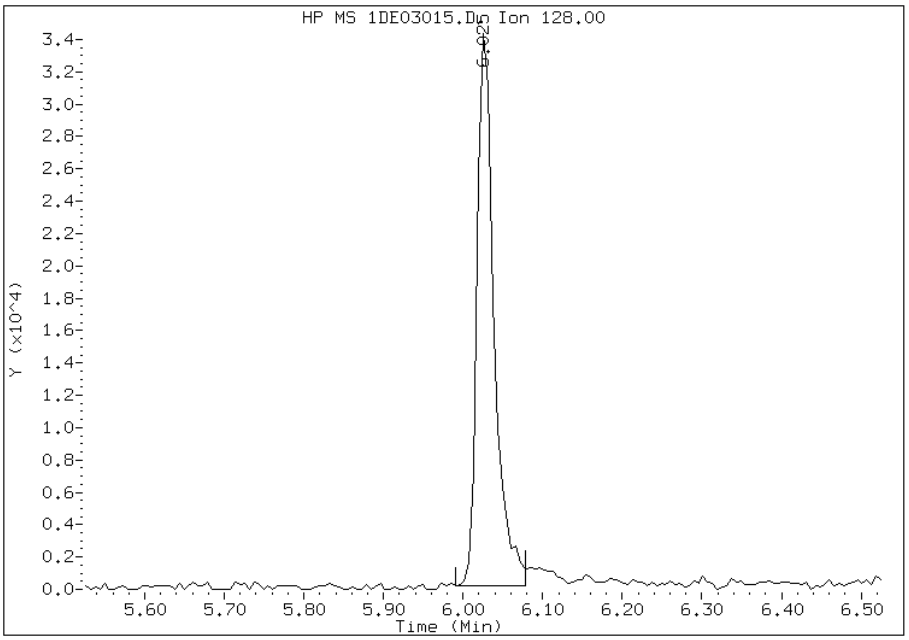
Processing Integration Results

RT: 6.03

Response: 51008

Amount: 1

Conc: 117



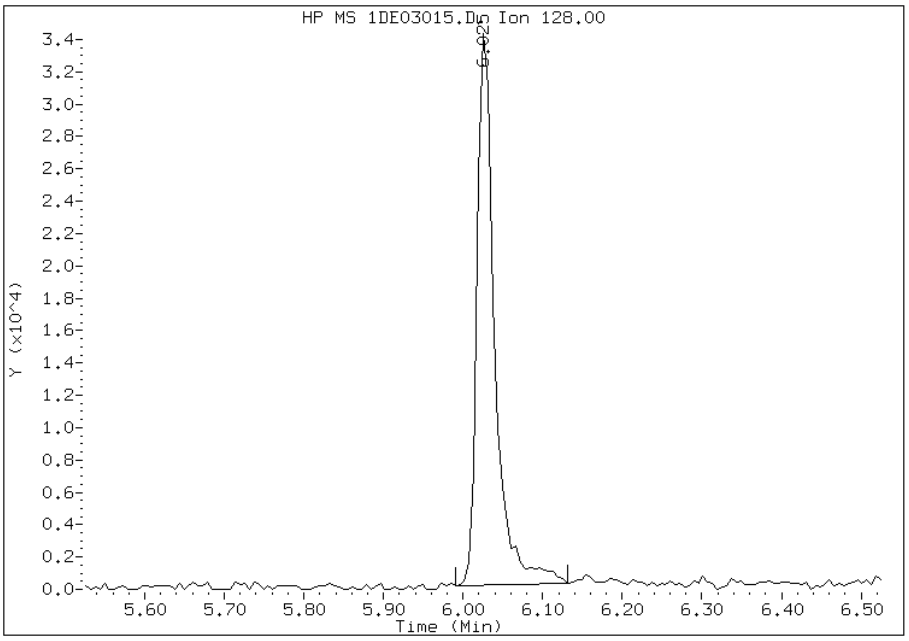
Manual Integration Results

RT: 6.03

Response: 52946

Amount: 2

Conc: 122



Manually Integrated By: cantins
Modification Date: 06-May-2013 15:46
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: FM0023B-CS-SP | Lab Sample ID: 680-89791-43

Matrix: Solid | Lab File ID: 1DE03016.D

Analysis Method: 8270C LL | Date Collected: 04/25/2013 14:14

Extract. Method: 3546 | Date Extracted: 05/02/2013 08:14

Sample wt/vol: 15.08(g) | Date Analyzed: 05/03/2013 15:37

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 23.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137126 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	8.7	J	52	6.5
120-12-7	Anthracene	16		11	5.4
56-55-3	Benzo[a]anthracene	64		10	5.1
50-32-8	Benzo[a]pyrene	57		13	6.7
205-99-2	Benzo[b]fluoranthene	100		16	7.9
191-24-2	Benzo[g,h,i]perylene	45		26	5.7
207-08-9	Benzo[k]fluoranthene	35		10	4.7
218-01-9	Chrysene	100		12	5.8
53-70-3	Dibenz(a,h)anthracene	14	J	26	5.3
206-44-0	Fluoranthene	120		26	5.2
86-73-7	Fluorene	26	U	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	25	J	26	9.2
90-12-0	1-Methylnaphthalene	49	J	52	5.7
91-57-6	2-Methylnaphthalene	69		52	9.2
91-20-3	Naphthalene	61		52	5.7
85-01-8	Phenanthrene	110		10	5.1
129-00-0	Pyrene	87		26	4.8

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D050313.b\1DE03016.D
Lab Smp Id: 680-89791-A-43-A Client Smp ID: FM0023B-CS-SP
Inj Date : 03-MAY-2013 15:37
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89791-a-43-a
Misc Info : 680-89791-A-43-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D050313.b\dFASTPAHi.m
Meth Date : 03-May-2013 10:55 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 17
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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.080	Weight Extracted
M	23.243	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.001	6.004	(1.000)	1410071	40.0000	
* 6 Acenaphthene-d10	164	7.687	7.690	(1.000)	915212	40.0000	
* 9 Phenanthrene-d10	188	8.956	8.953	(1.000)	1515364	40.0000	
$ 13 o-Terphenyl	230	9.256	9.259	(1.033)	124920	5.47114	470
* 17 Chrysene-d12	240	11.260	11.257	(1.000)	1560468	40.0000	
* 22 Perylene-d12	264	13.075	13.066	(1.000)	1628986	40.0000	
2 Naphthalene	128	6.025	6.027	(1.004)	24731	0.70563	61(M)
3 2-Methylnaphthalene	142	6.735	6.738	(1.122)	17970	0.79427	69(M)
4 1-Methylnaphthalene	142	6.829	6.826	(1.138)	12095	0.56610	49(M)
5 Acenaphthylene	152	7.564	7.561	(0.984)	3915	0.10107	8.7
8 Fluorene	166	8.157	8.160	(1.061)	1363	0.04814	4.2
10 Phenanthrene	178	8.968	8.971	(1.001)	53275	1.27635	110
11 Anthracene	178	9.009	9.012	(1.006)	7766	0.18746	16
12 Carbazole	167	9.156	9.159	(1.022)	3081	0.08431	7.3

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/Kg)
14 Fluoranthene	202	9.955	9.958	(1.112)	57946	1.34907	120(M)
15 Pyrene	202	10.143	10.146	(0.901)	47134	1.00583	87(M)
16 Benzo(a)anthracene	228	11.248	11.239	(0.999)	33649	0.74583	64
18 Chrysene	228	11.277	11.280	(1.002)	49101	1.16070	100
19 Benzo(b)fluoranthene	252	12.529	12.526	(0.958)	48014	1.17992	100(M)
20 Benzo(k)fluoranthene	252	12.558	12.567	(0.960)	17580	0.41008	35(MH)
21 Benzo(a)pyrene	252	12.975	12.978	(0.992)	26784	0.65508	56
23 Indeno(1,2,3-cd)pyrene	276	14.650	14.647	(1.120)	12378	0.28392	24(M)
24 Dibenzo(a,h)anthracene	278	14.661	14.670	(1.121)	6546	0.15945	14(MH)
25 Benzo(g,h,i)perylene	276	15.079	15.081	(1.153)	21950	0.52289	45(M)

QC Flag Legend

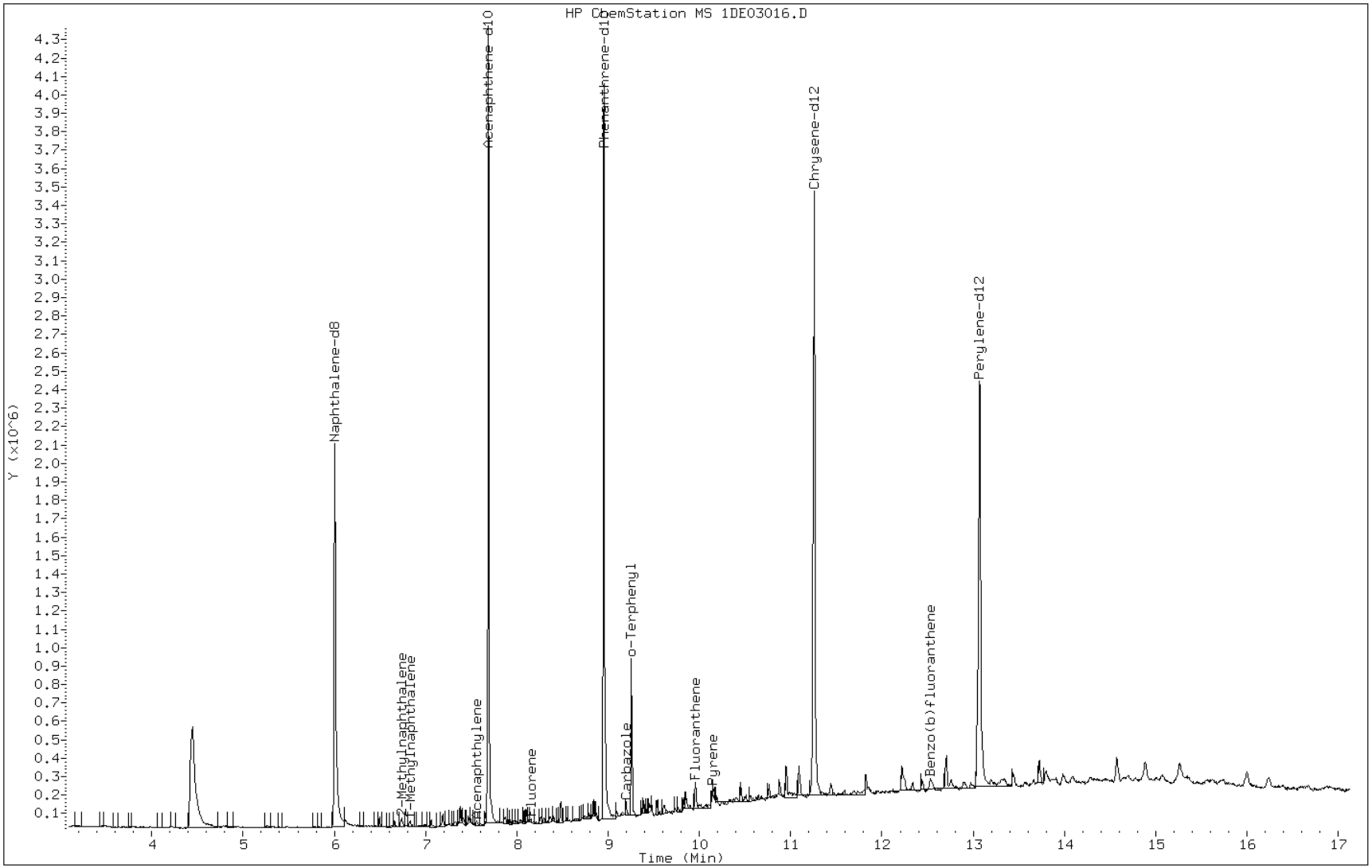
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DE03016.D

Date: 03-MAY-2013 15:37

Client ID: FM0023B-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-43-a Operator: SCC



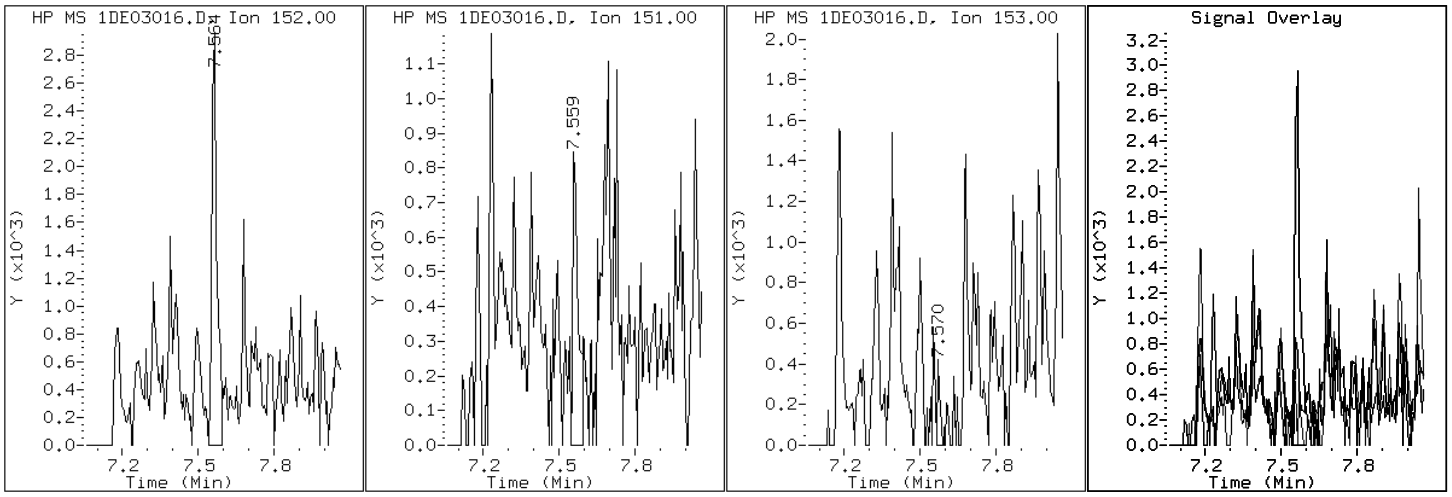
Data File: 1DE03016.D

Date: 03-MAY-2013 15:37

Client ID: FM0023B-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-43-a Operator: SCC

5 Acenaphthylene



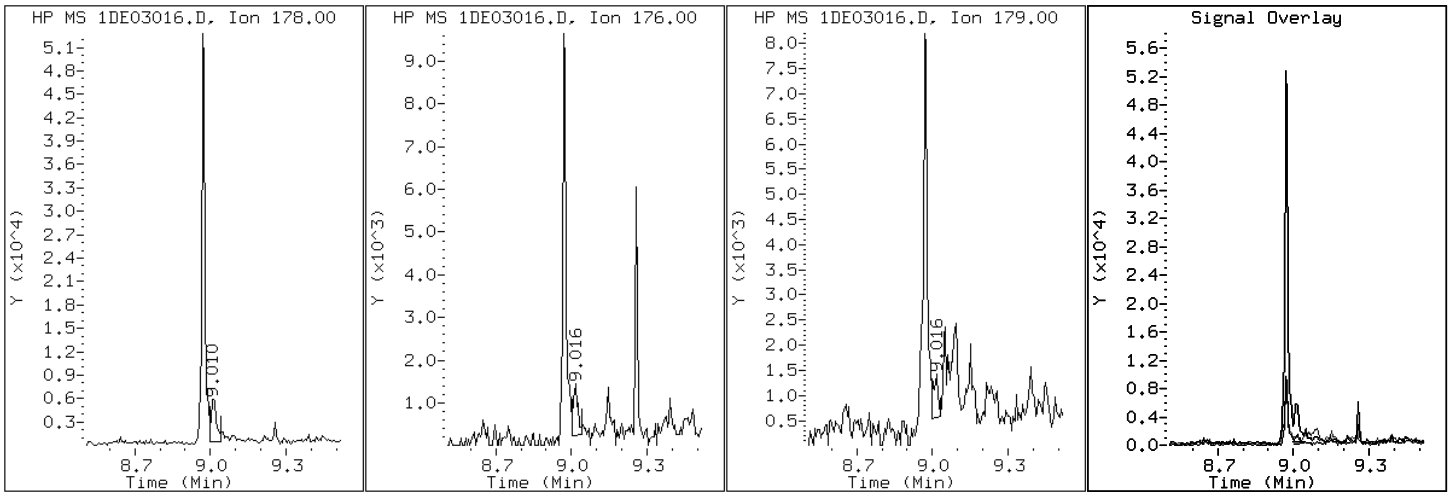
Data File: 1DE03016.D

Date: 03-MAY-2013 15:37

Client ID: FM0023B-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-43-a Operator: SCC

11 Anthracene



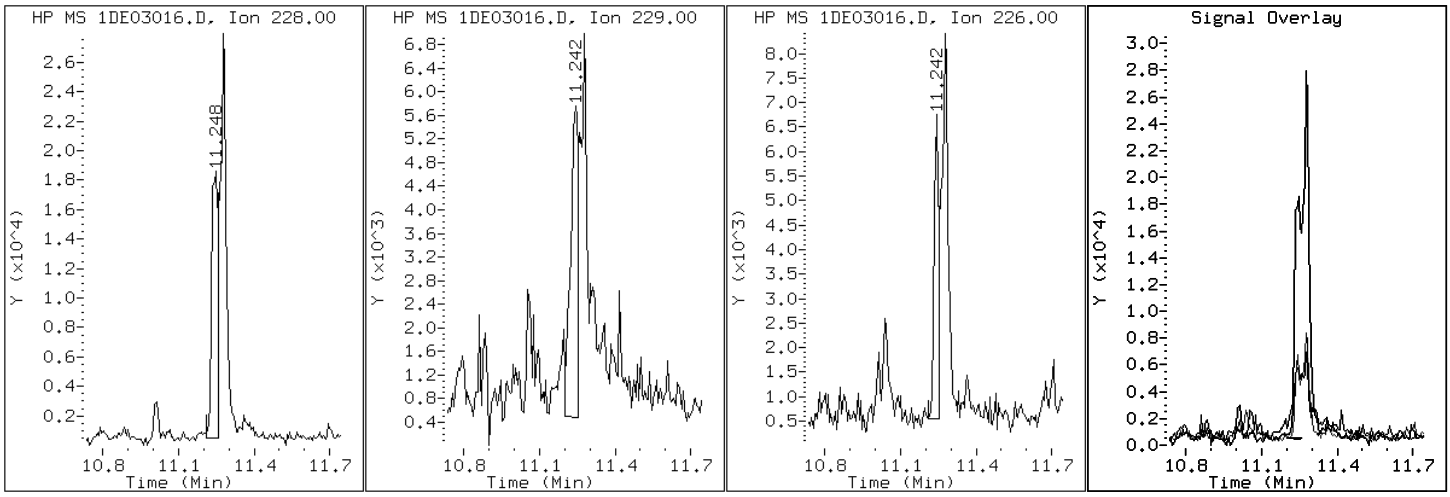
Data File: 1DE03016.D

Date: 03-MAY-2013 15:37

Client ID: FM0023B-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-43-a Operator: SCC

16 Benzo(a)anthracene



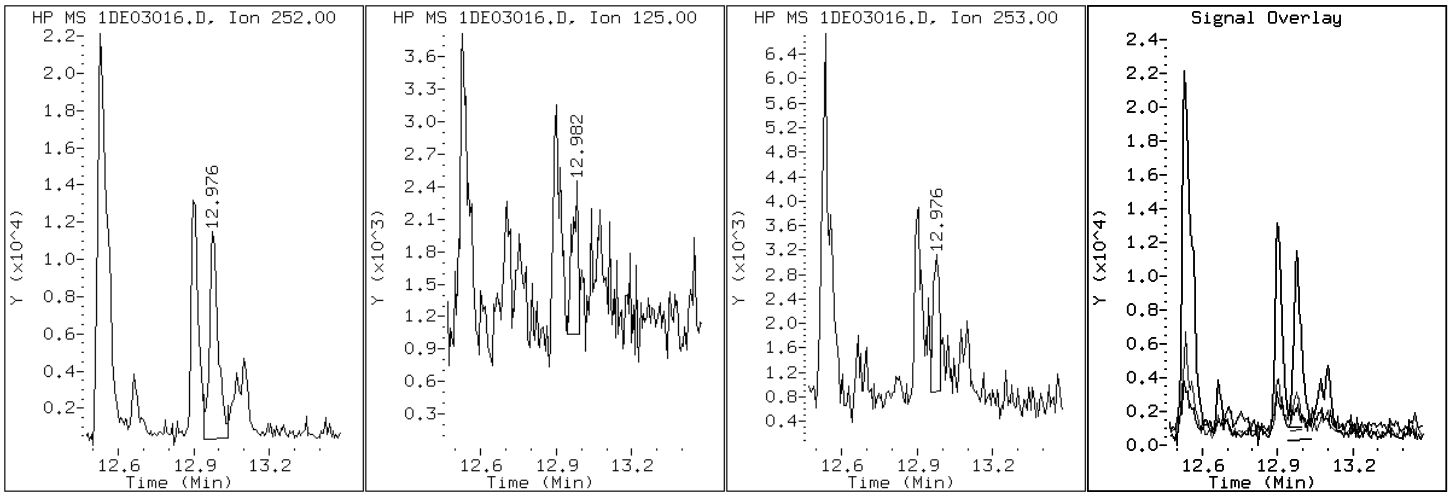
Data File: 1DE03016.D

Date: 03-MAY-2013 15:37

Client ID: FM0023B-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-43-a Operator: SCC

21 Benzo(a)pyrene



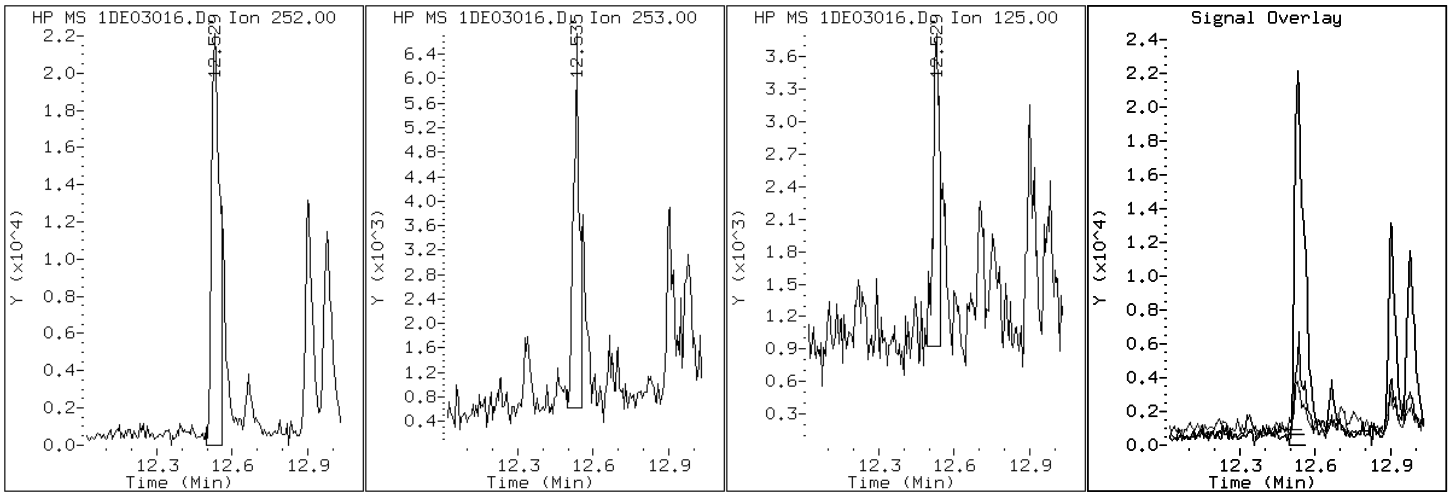
Data File: 1DE03016.D

Date: 03-MAY-2013 15:37

Client ID: FM0023B-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-43-a Operator: SCC

19 Benzo(b)fluoranthene



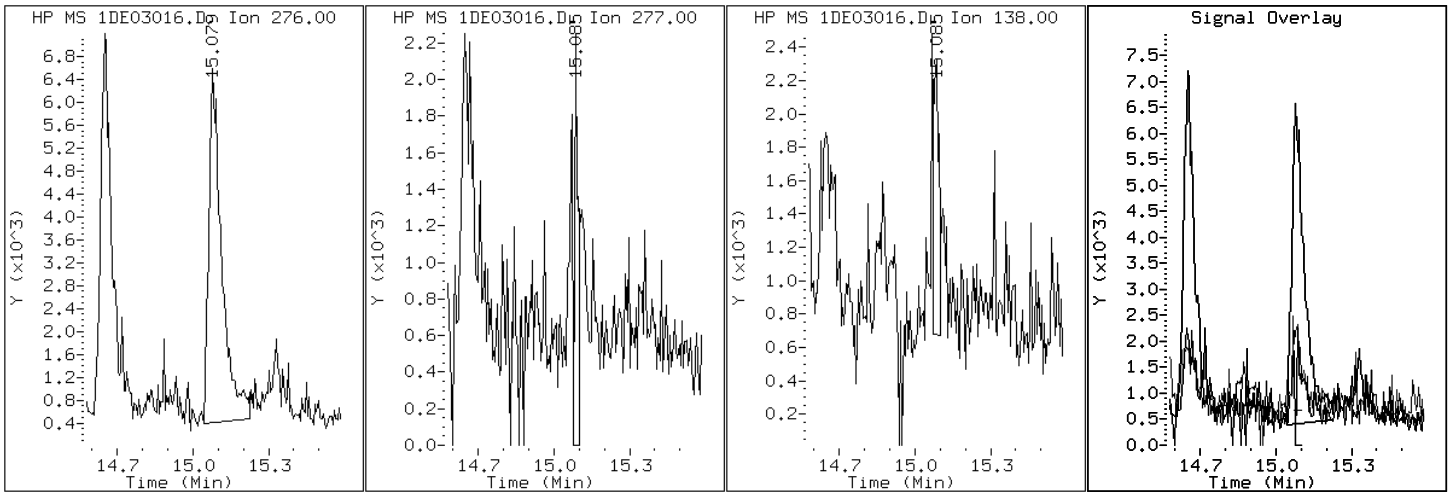
Data File: 1DE03016.D

Date: 03-MAY-2013 15:37

Client ID: FM0023B-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-43-a Operator: SCC

25 Benzo(g,h,i)perylene



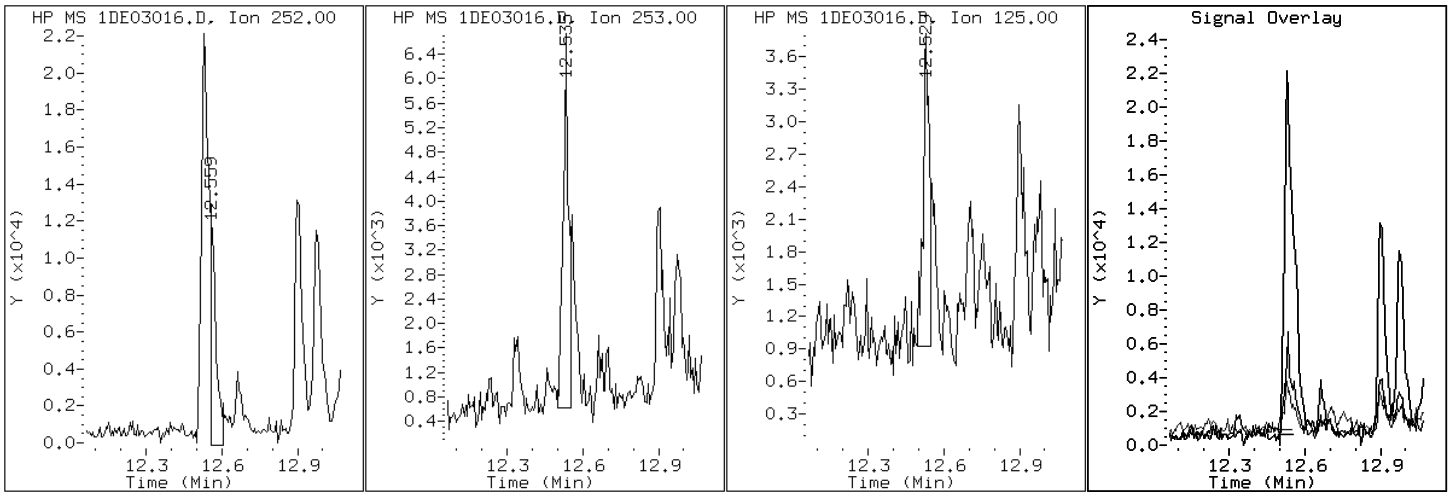
Data File: 1DE03016.D

Date: 03-MAY-2013 15:37

Client ID: FM0023B-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-43-a Operator: SCC

20 Benzo(k)fluoranthene



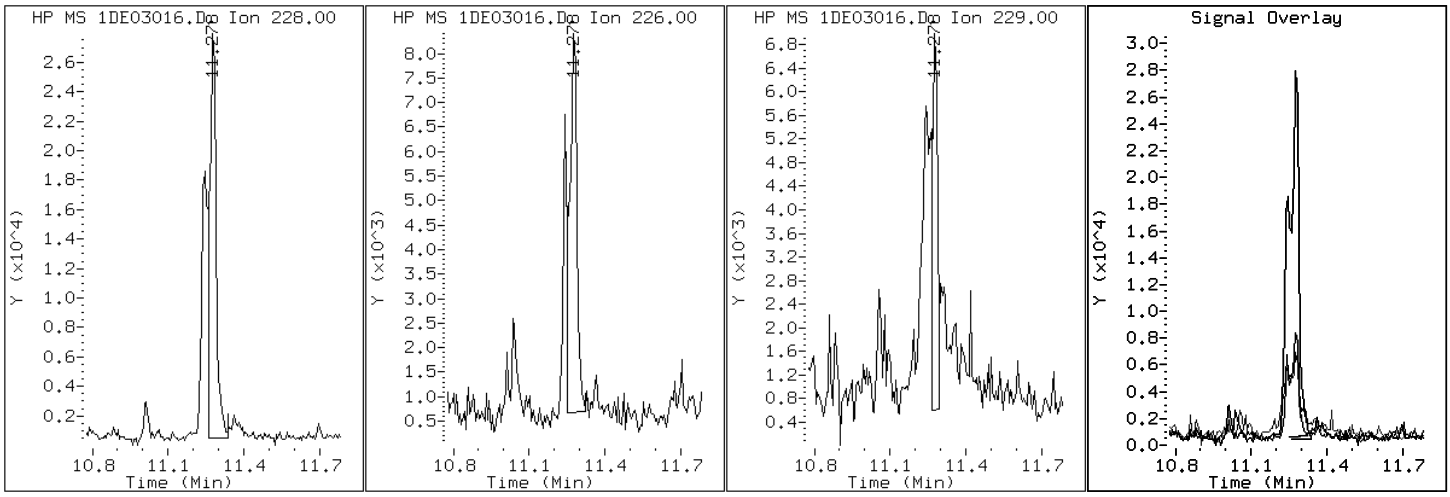
Data File: 1DE03016.D

Date: 03-MAY-2013 15:37

Client ID: FM0023B-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-43-a Operator: SCC

18 Chrysene



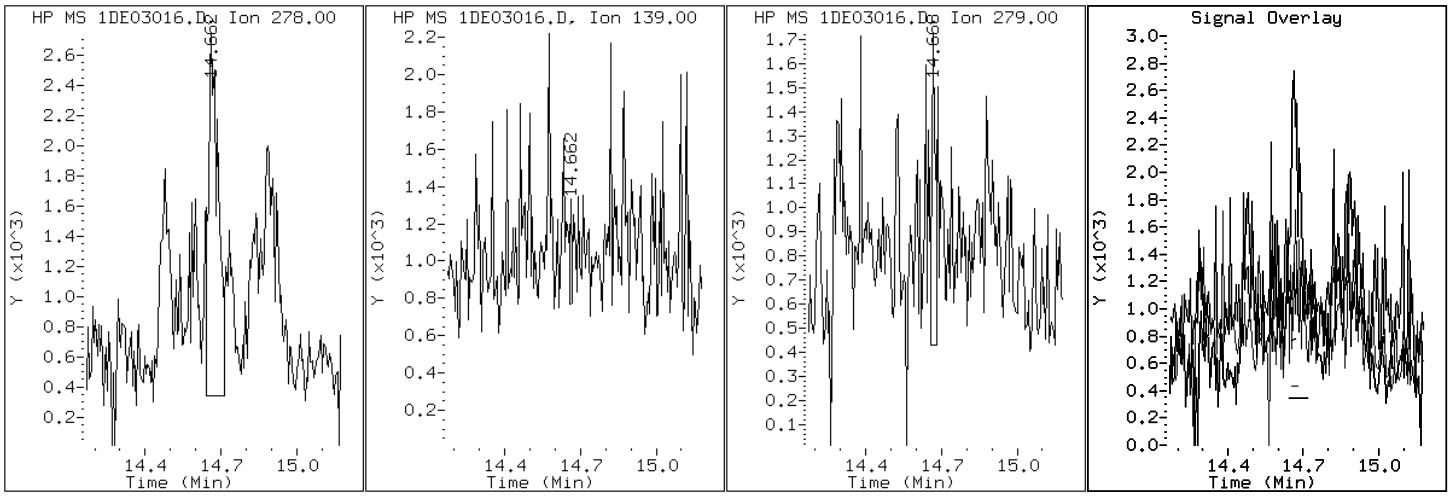
Data File: 1DE03016.D

Date: 03-MAY-2013 15:37

Client ID: FM0023B-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-43-a Operator: SCC

24 Dibenzo(a,h)anthracene



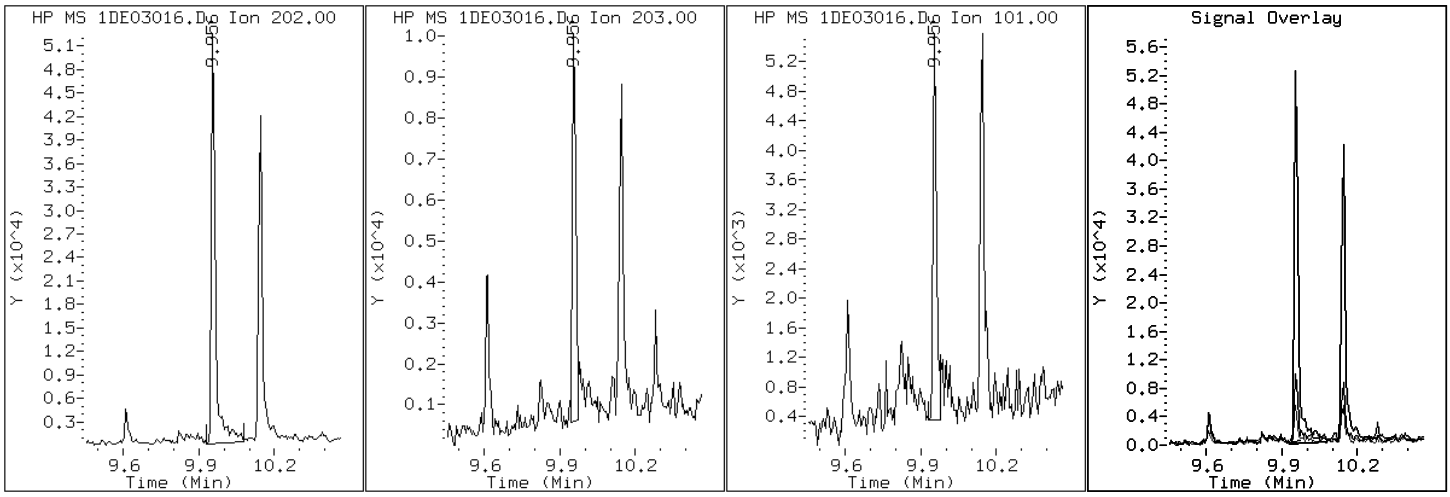
Data File: 1DE03016.D

Date: 03-MAY-2013 15:37

Client ID: FM0023B-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-43-a Operator: SCC

14 Fluoranthene



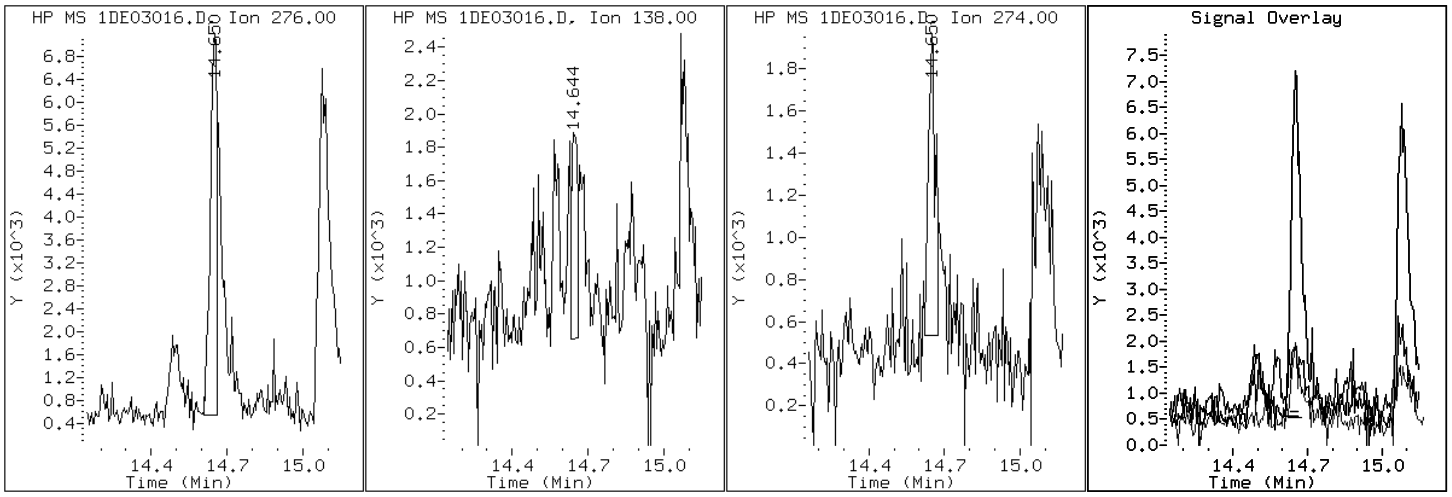
Data File: 1DE03016.D

Date: 03-MAY-2013 15:37

Client ID: FM0023B-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-43-a Operator: SCC

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



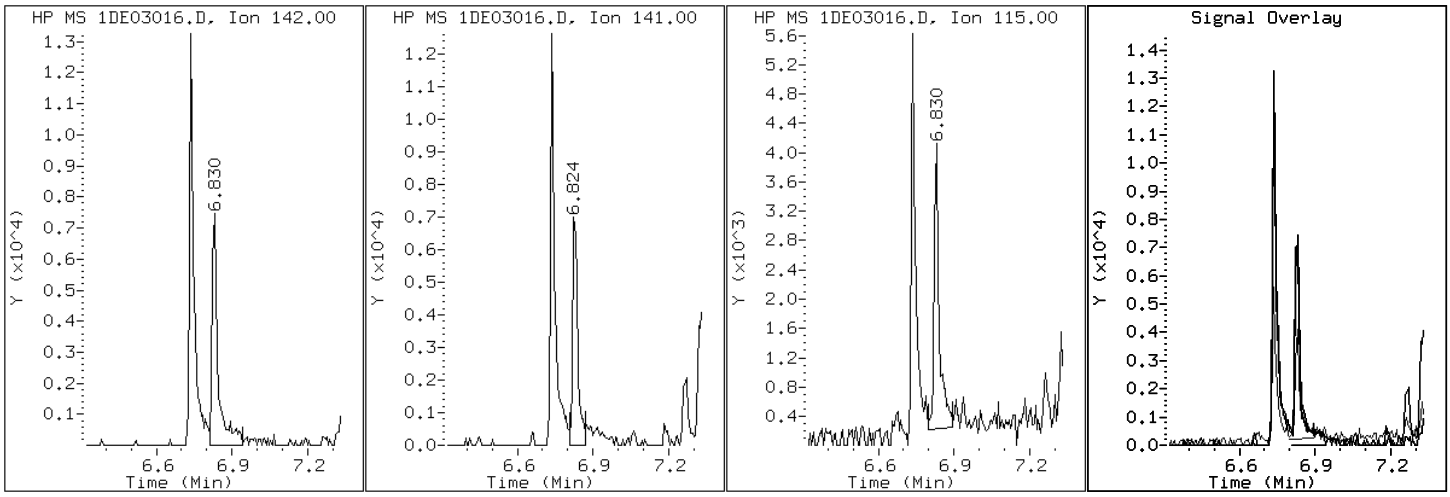
Data File: 1DE03016.D

Date: 03-MAY-2013 15:37

Client ID: FM0023B-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-43-a Operator: SCC

4 1-Methylnaphthalene



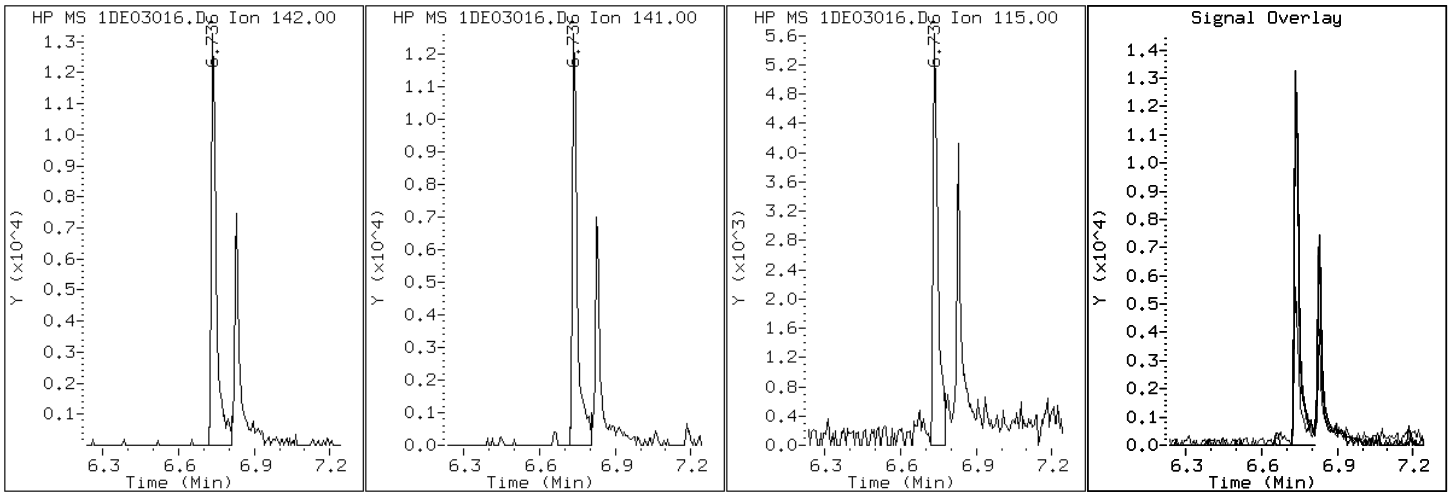
Data File: 1DE03016.D

Date: 03-MAY-2013 15:37

Client ID: FM0023B-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-43-a Operator: SCC

3 2-Methylnaphthalene



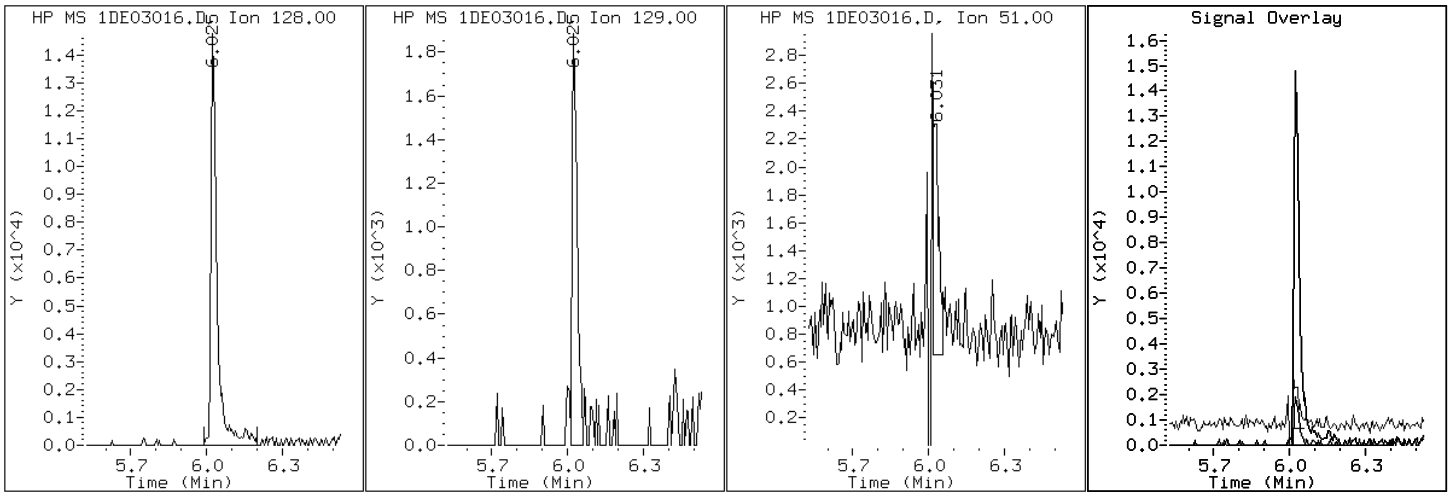
Data File: 1DE03016.D

Date: 03-MAY-2013 15:37

Client ID: FM0023B-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-43-a Operator: SCC

2 Naphthalene



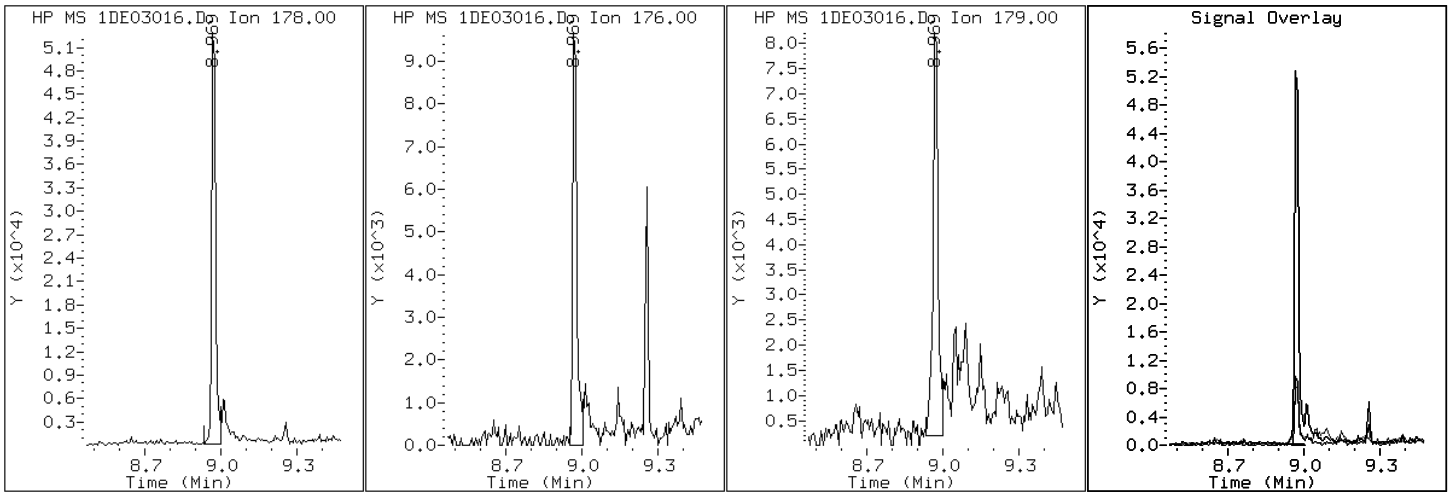
Data File: 1DE03016.D

Date: 03-MAY-2013 15:37

Client ID: FM0023B-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-43-a Operator: SCC

10 Phenanthrene



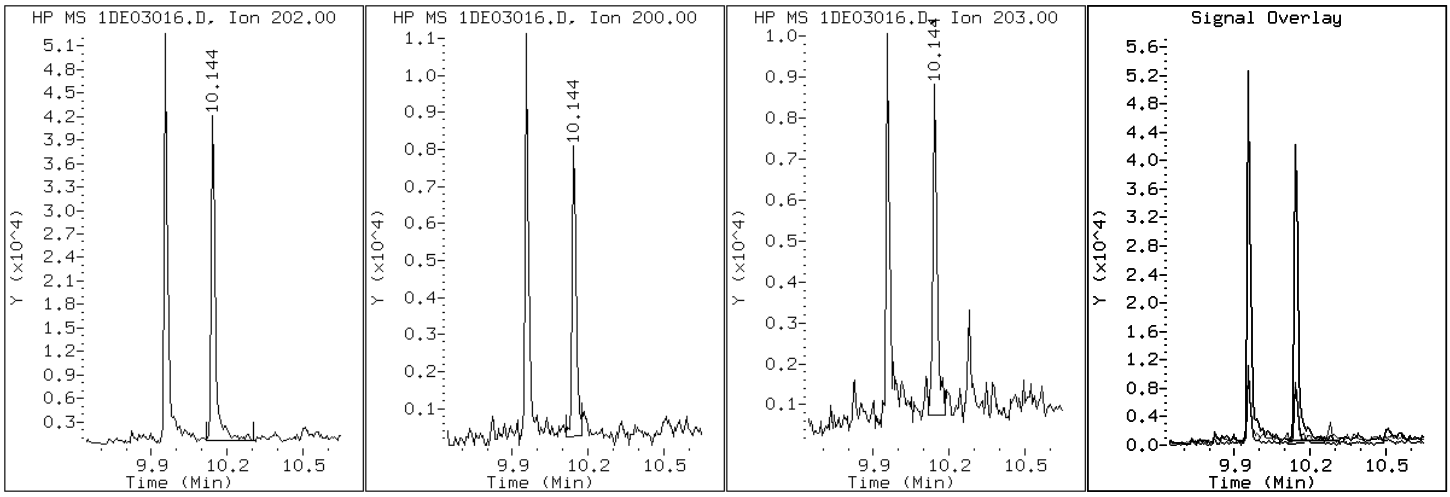
Data File: 1DE03016.D

Date: 03-MAY-2013 15:37

Client ID: FM0023B-CS-SP Instrument: BSMSD.i

Sample Info: 680-89791-a-43-a Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DE03016.D
Inj. Date and Time: 03-MAY-2013 15:37
Instrument ID: BSMSD.i
Client ID: FM0023B-CS-SP
Compound: 19 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/06/2013

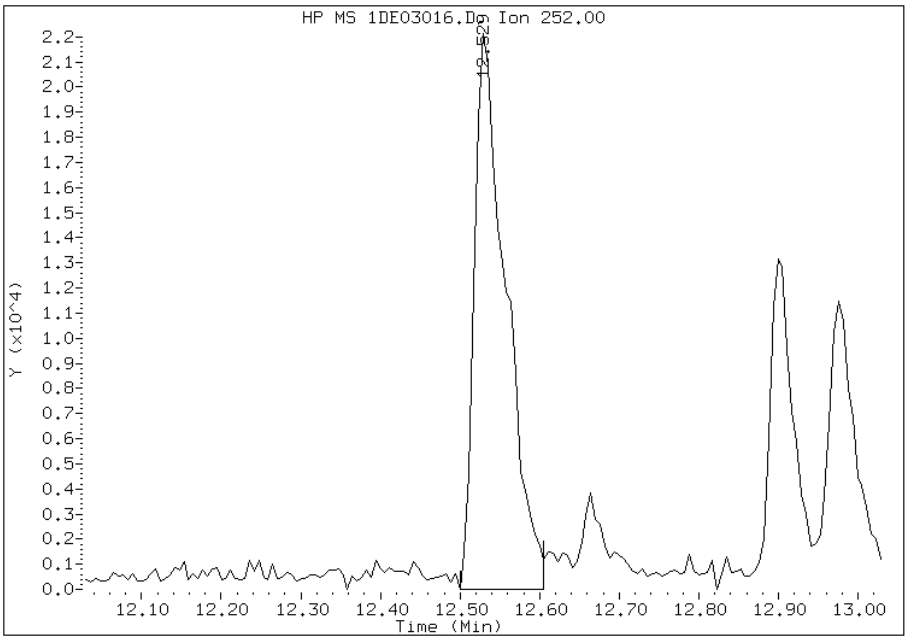
Processing Integration Results

RT: 12.53

Response: 60949

Amount: 1

Conc: 129



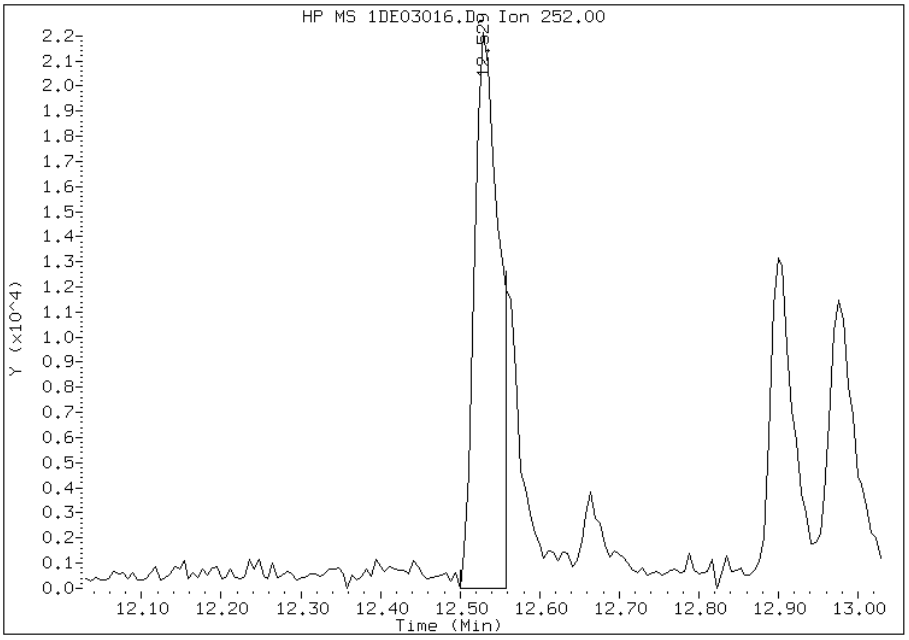
Manual Integration Results

RT: 12.53

Response: 48014

Amount: 1

Conc: 102



Manually Integrated By: cantins
Modification Date: 06-May-2013 15:56
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DE03016.D
Inj. Date and Time: 03-MAY-2013 15:37
Instrument ID: BSMSD.i
Client ID: FM0023B-CS-SP
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/06/2013

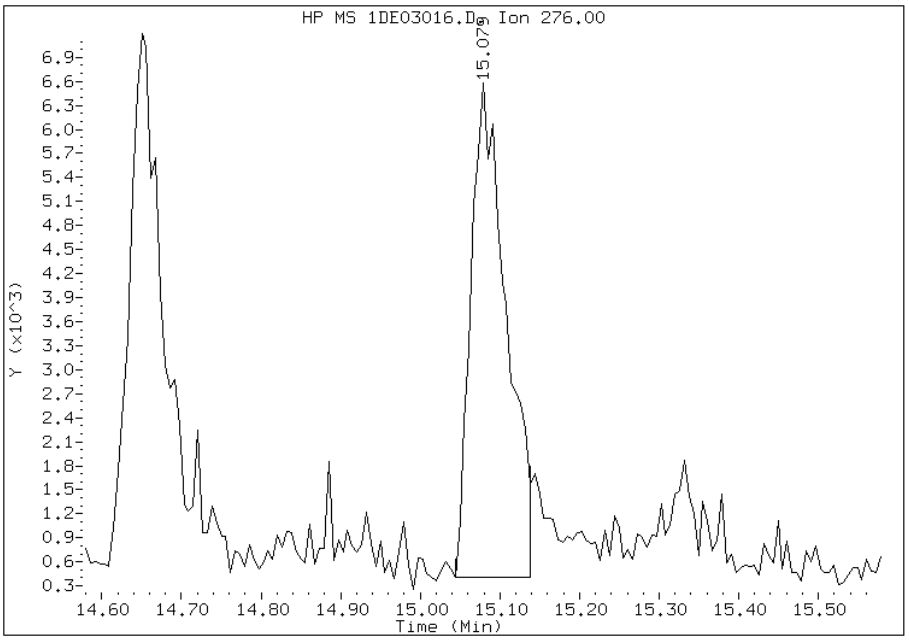
Processing Integration Results

RT: 15.08

Response: 19061

Amount: 0

Conc: 39



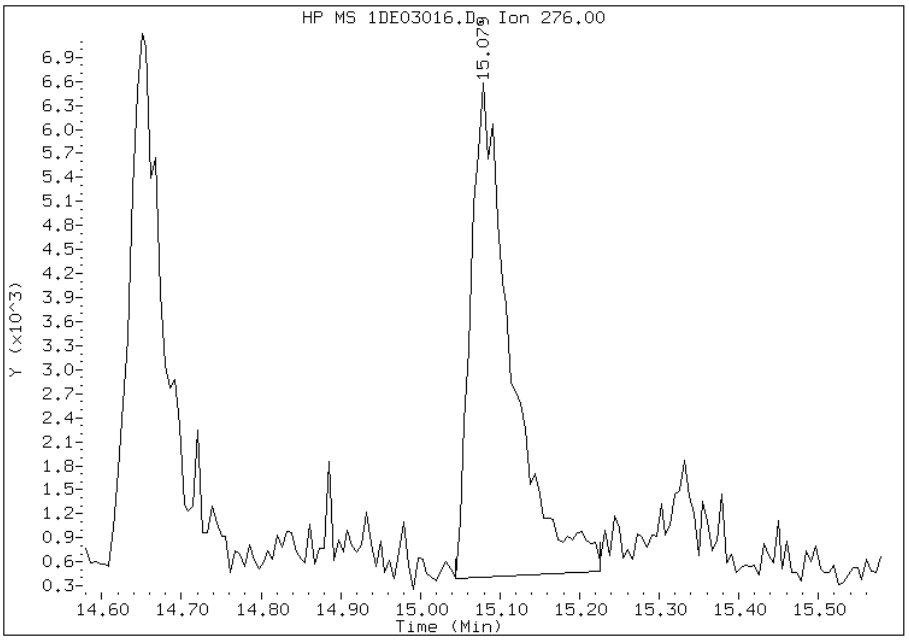
Manual Integration Results

RT: 15.08

Response: 21950

Amount: 1

Conc: 45



Manually Integrated By: cantins
Modification Date: 06-May-2013 15:58
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03016.D
Inj. Date and Time: 03-MAY-2013 15:37
Instrument ID: BSMSD.i
Client ID: FM0023B-CS-SP
Compound: 20 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/06/2013

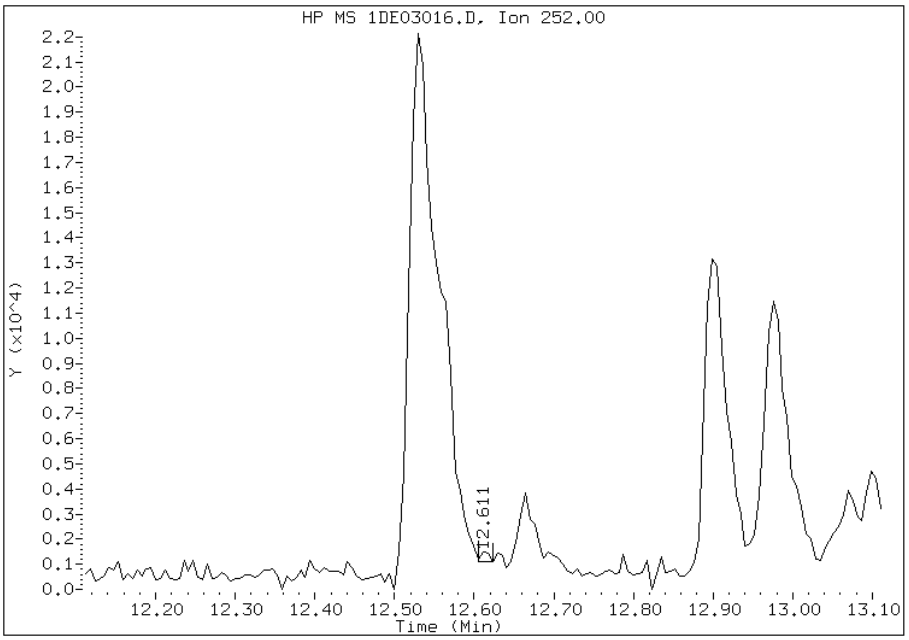
Processing Integration Results

RT: 12.61

Response: 294

Amount: 0

Conc: 1



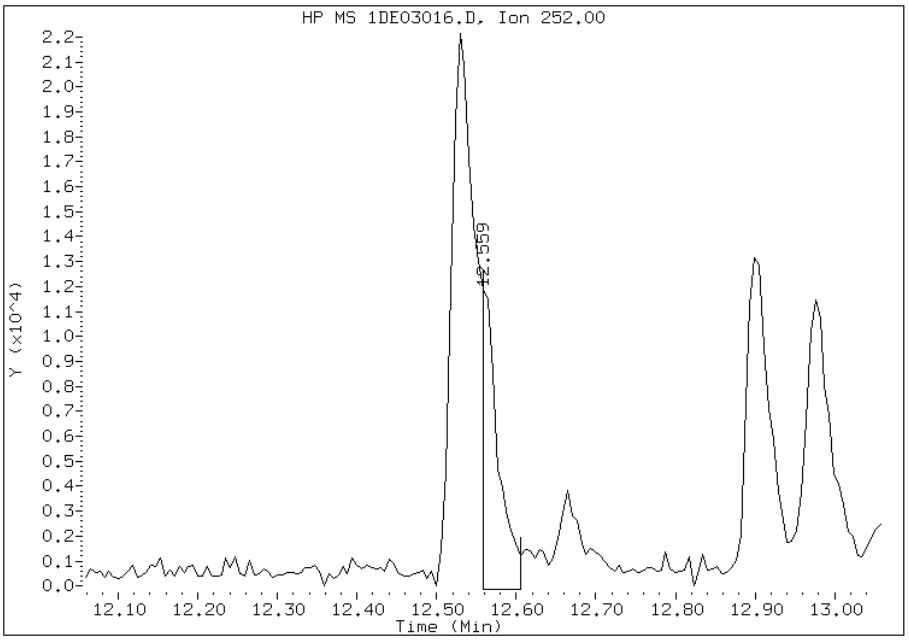
Manual Integration Results

RT: 12.56

Response: 17580

Amount: 0

Conc: 35



Manually Integrated By: cantins
Modification Date: 06-May-2013 15:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03016.D
Inj. Date and Time: 03-MAY-2013 15:37
Instrument ID: BSMSD.i
Client ID: FM0023B-CS-SP
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/06/2013

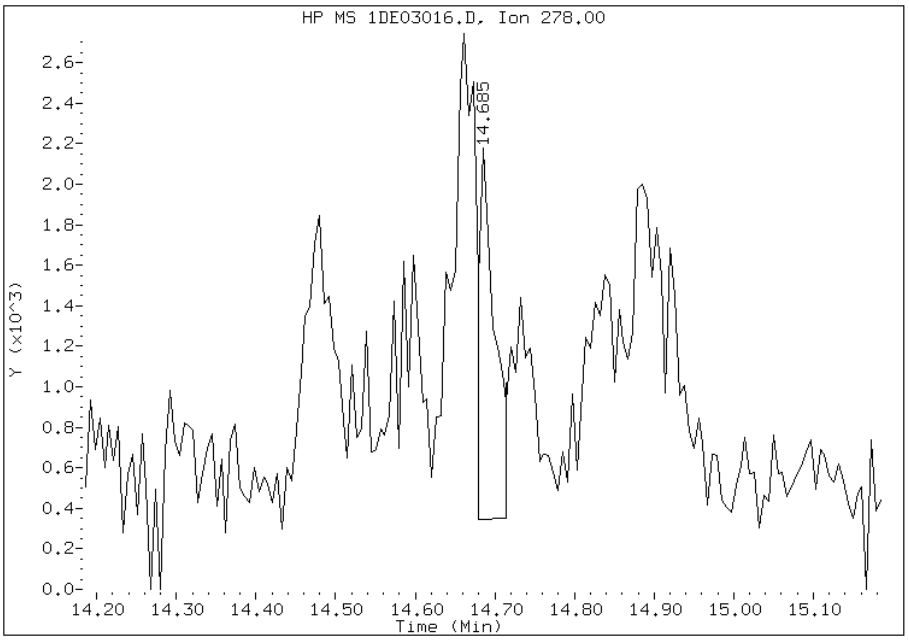
Processing Integration Results

RT: 14.69

Response: 2642

Amount: 0

Conc: 6



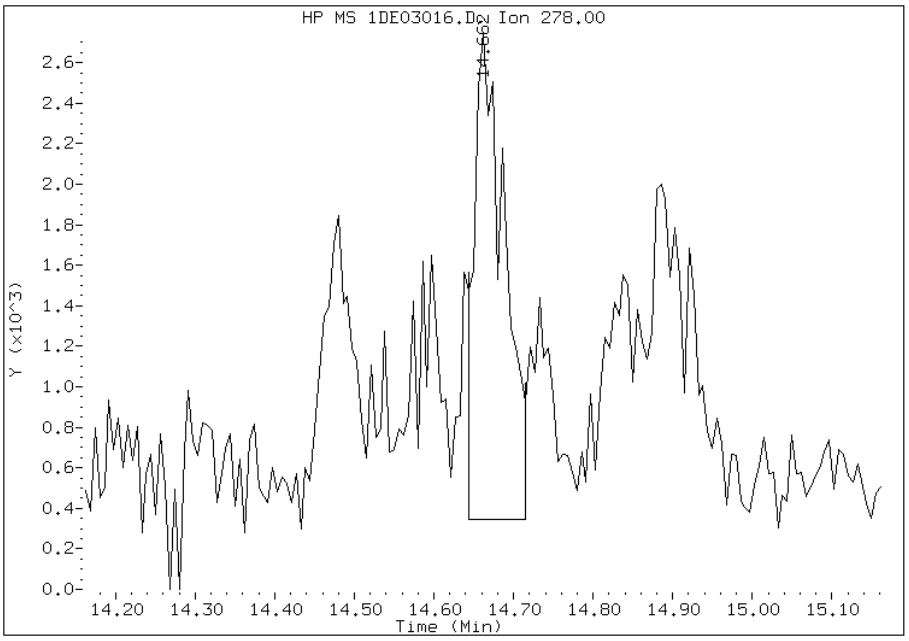
Manual Integration Results

RT: 14.66

Response: 6546

Amount: 0

Conc: 14



Manually Integrated By: cantins
Modification Date: 06-May-2013 15:58
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03016.D
Inj. Date and Time: 03-MAY-2013 15:37
Instrument ID: BSMSD.i
Client ID: FM0023B-CS-SP
Compound: 14 Fluoranthene
CAS #: 206-44-0
Report Date: 05/06/2013

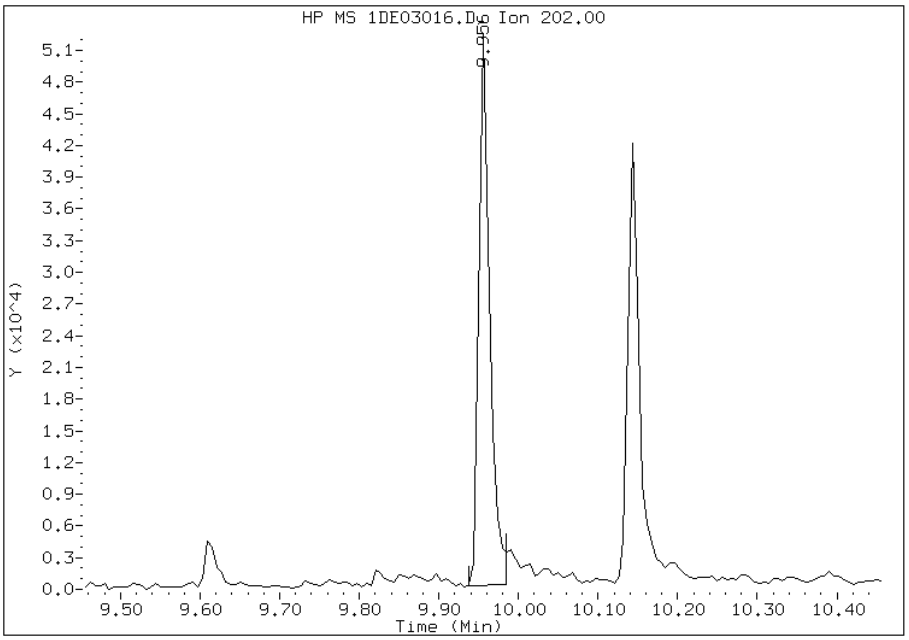
Processing Integration Results

RT: 9.96

Response: 49590

Amount: 1

Conc: 100



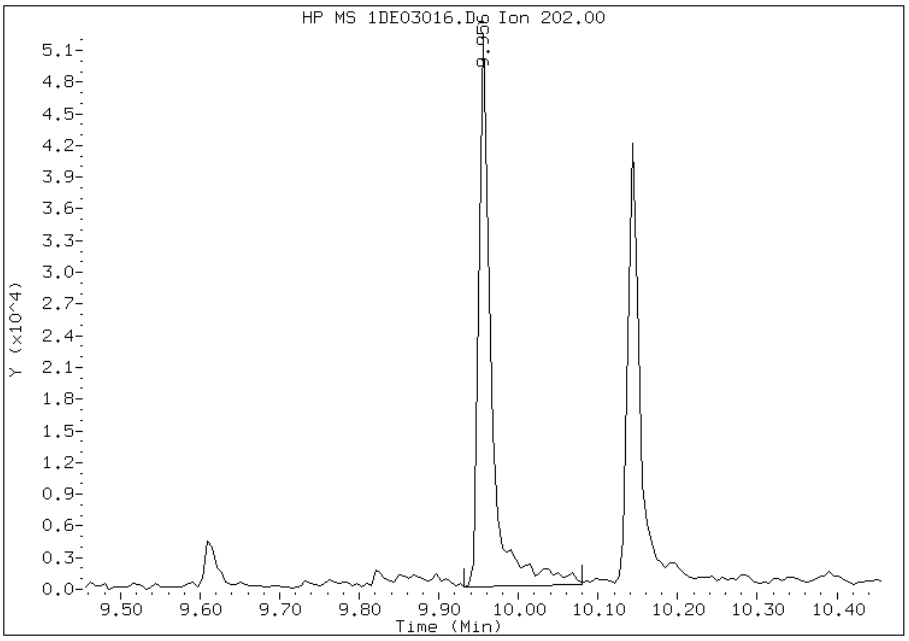
Manual Integration Results

RT: 9.96

Response: 57946

Amount: 1

Conc: 117



Manually Integrated By: cantins
Modification Date: 06-May-2013 15:56
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03016.D
Inj. Date and Time: 03-MAY-2013 15:37
Instrument ID: BSMSD.i
Client ID: FM0023B-CS-SP
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/06/2013

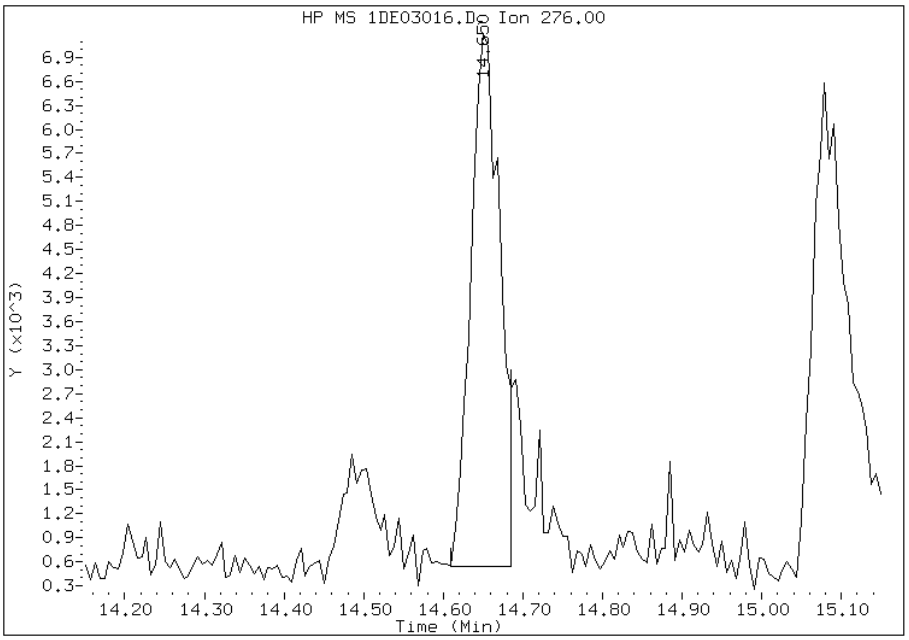
Processing Integration Results

RT: 14.65

Response: 17042

Amount: 0

Conc: 34



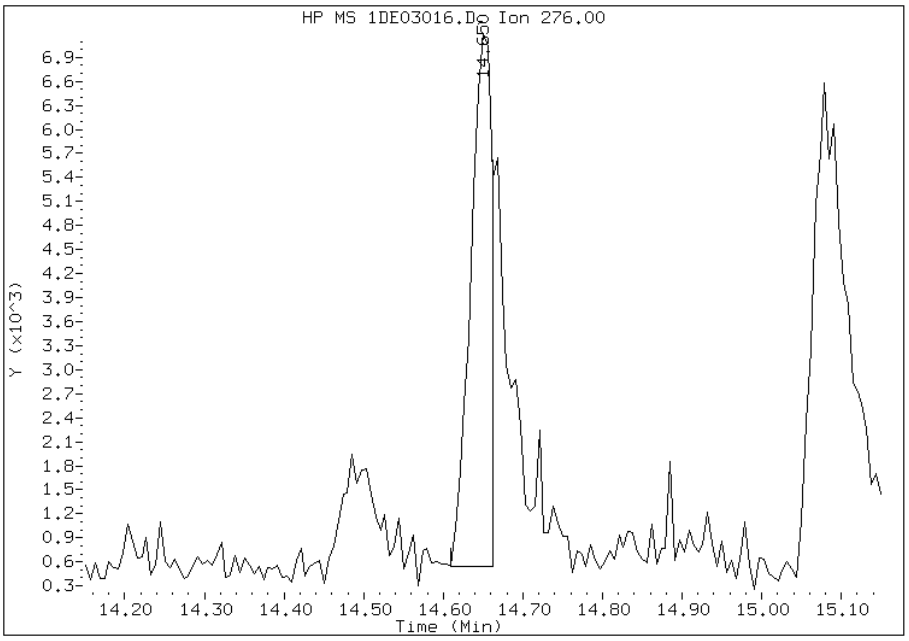
Manual Integration Results

RT: 14.65

Response: 12378

Amount: 0

Conc: 25



Manually Integrated By: cantins
Modification Date: 06-May-2013 15:57
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DE03016.D
Inj. Date and Time: 03-MAY-2013 15:37
Instrument ID: BSMSD.i
Client ID: FM0023B-CS-SP
Compound: 4 1-Methylnaphthalene
CAS #: 90-12-0
Report Date: 05/06/2013

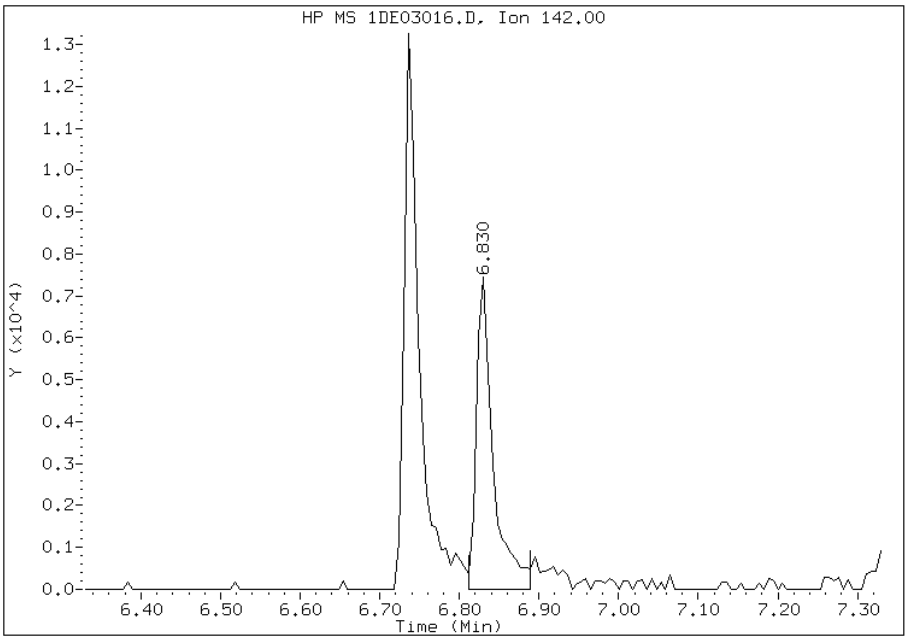
Processing Integration Results

RT: 6.83

Response: 10812

Amount: 1

Conc: 44



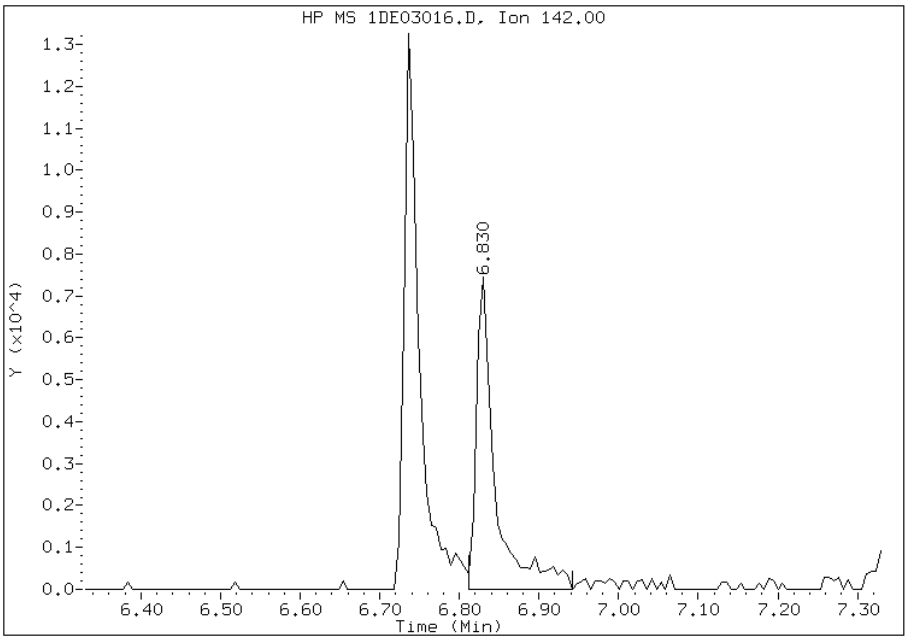
Manual Integration Results

RT: 6.83

Response: 12095

Amount: 1

Conc: 49



Manually Integrated By: cantins
Modification Date: 06-May-2013 15:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03016.D
Inj. Date and Time: 03-MAY-2013 15:37
Instrument ID: BSMSD.i
Client ID: FM0023B-CS-SP
Compound: 3 2-Methylnaphthalene
CAS #: 91-57-6
Report Date: 05/06/2013

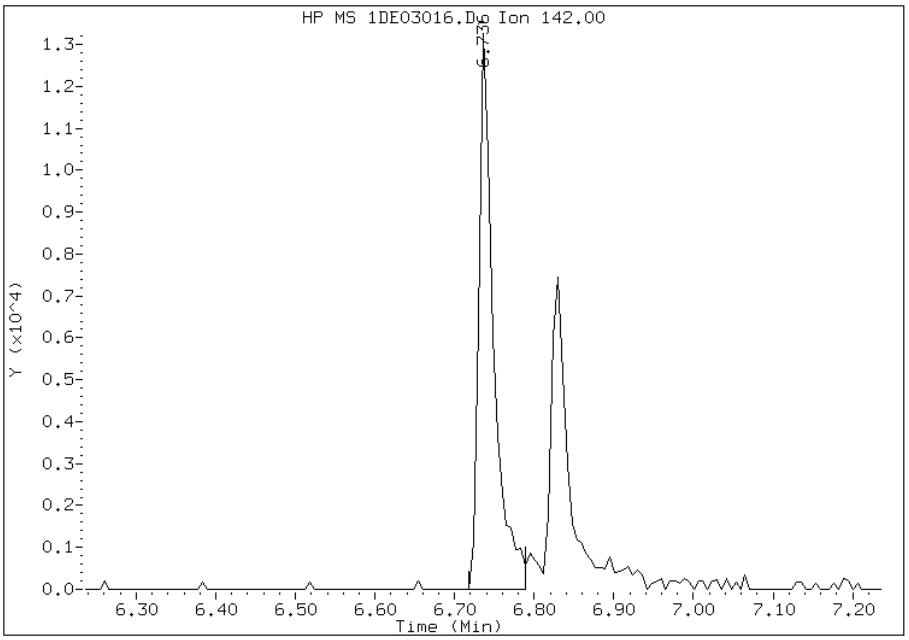
Processing Integration Results

RT: 6.74

Response: 17119

Amount: 1

Conc: 65



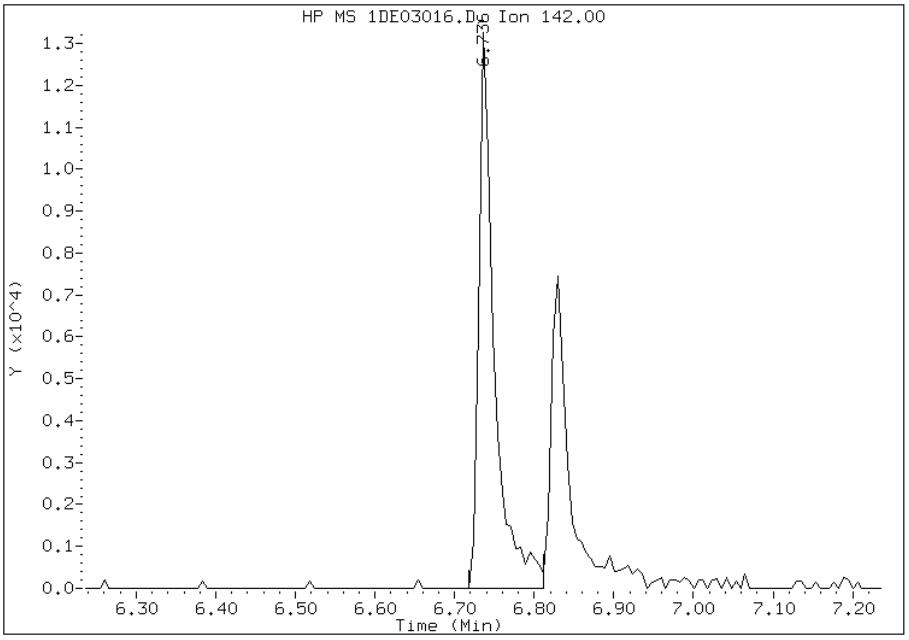
Manual Integration Results

RT: 6.74

Response: 17970

Amount: 1

Conc: 69



Manually Integrated By: cantins
Modification Date: 06-May-2013 15:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03016.D
Inj. Date and Time: 03-MAY-2013 15:37
Instrument ID: BSMSD.i
Client ID: FM0023B-CS-SP
Compound: 2 Naphthalene
CAS #: 91-20-3
Report Date: 05/06/2013

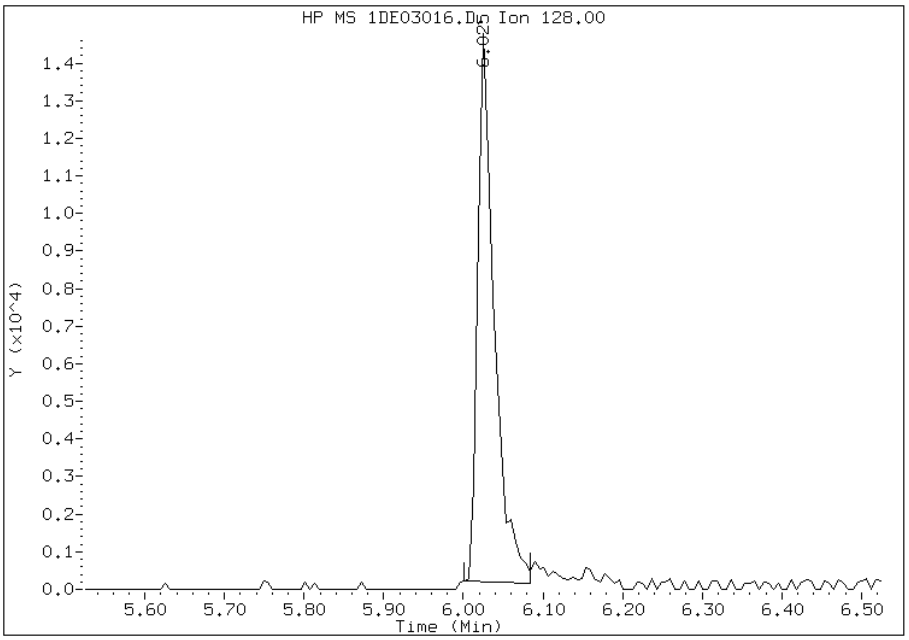
Processing Integration Results

RT: 6.03

Response: 21008

Amount: 1

Conc: 52



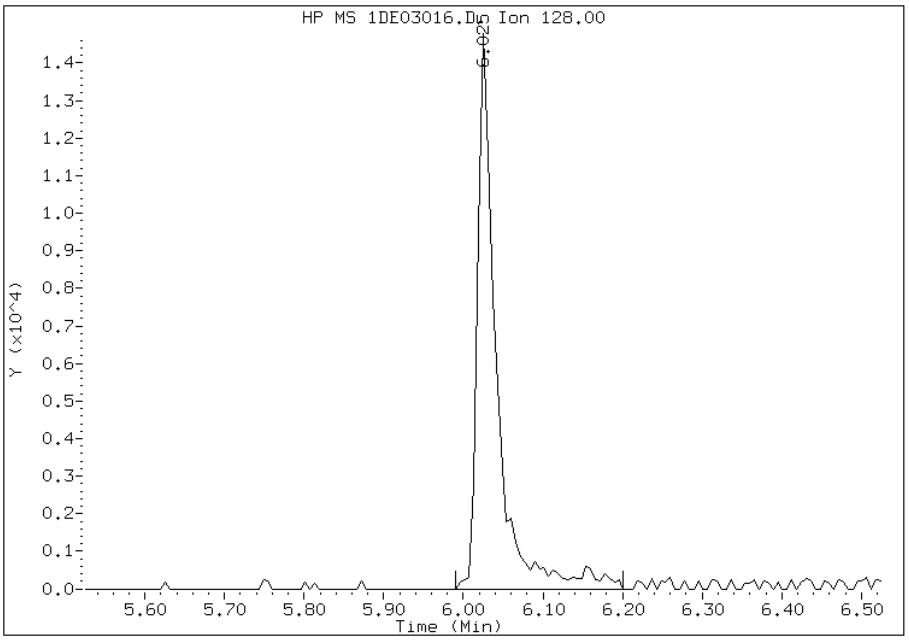
Manual Integration Results

RT: 6.03

Response: 24731

Amount: 1

Conc: 61



Manually Integrated By: cantins
Modification Date: 06-May-2013 15:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03016.D
Inj. Date and Time: 03-MAY-2013 15:37
Instrument ID: BSMSD.i
Client ID: FM0023B-CS-SP
Compound: 15 Pyrene
CAS #: 129-00-0
Report Date: 05/06/2013

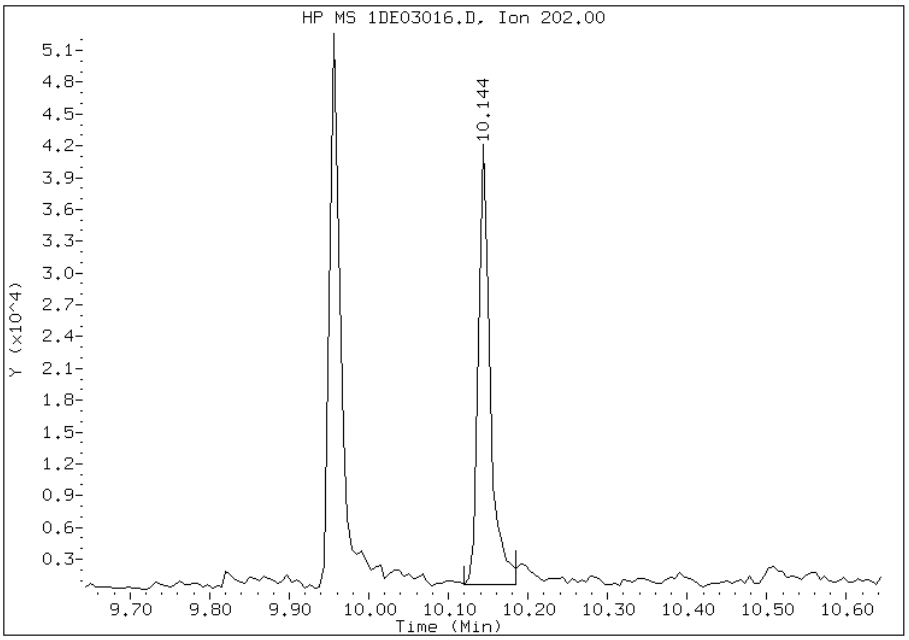
Processing Integration Results

RT: 10.14

Response: 42651

Amount: 1

Conc: 79



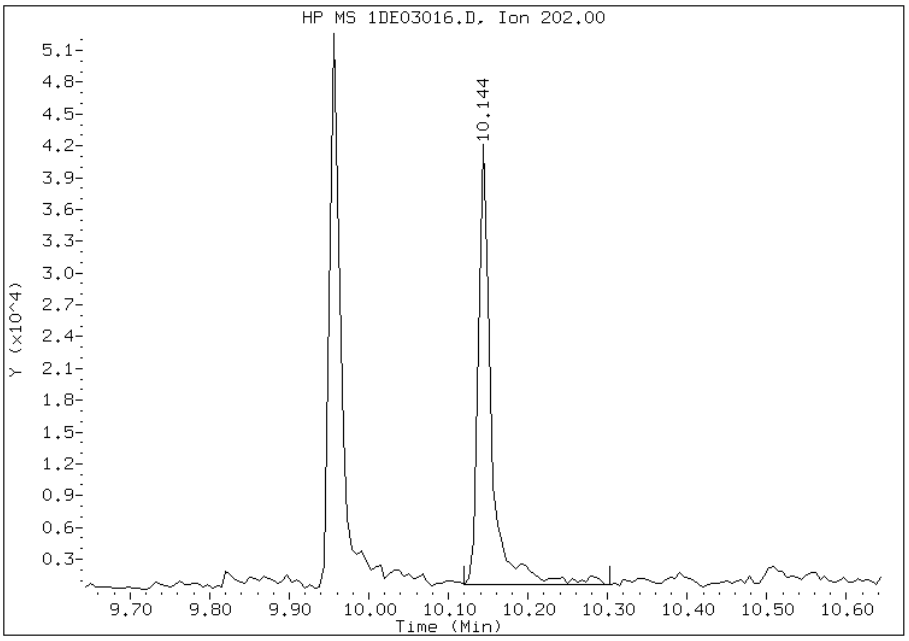
Manual Integration Results

RT: 10.14

Response: 47134

Amount: 1

Conc: 87



Manually Integrated By: cantins
Modification Date: 06-May-2013 15:56
Manual Integration Reason: Baseline Event

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

Lab Name: TestAmerica Tampa Job No.: 680-89791-2 Analy Batch No.: 136892

SDG No.: 68089791-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/26/2013 10:03 Calibration End Date: 04/26/2013 11:34 Calibration ID: 2919

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136892/3	1AD26003.D
Level 2	IC 660-136892/4	1AD26004.D
Level 3	IC 660-136892/5	1AD26005.D
Level 4	IC 660-136892/6	1AD26006.D
Level 5	ICIS 660-136892/7	1AD26007.D
Level 6	IC 660-136892/8	1AD26008.D
Level 7	IC 660-136892/9	1AD26009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.9807 0.9678	1.0732 0.8900	1.0807	1.0246	0.9825	Ave		0.9999			0.0000	6.6		15.0			
2-Methylnaphthalene	0.5475 0.5304	0.6500 0.4770	0.6525	0.5874	0.5679	Ave		0.5733			0.0000	11.1		15.0			
1-Methylnaphthalene	0.6553 0.5728	0.7316 0.5089	0.7301	0.6482	0.5991	Ave		0.6351			0.0000	12.9		15.0			
Acenaphthylene	2.3664 2.1362	2.6542 1.8462	2.6916	2.4314	2.2380	Ave		2.3377			0.0000	12.7		15.0			
Acenaphthene	1.4118 1.1125	1.4011 0.9341	1.3816	1.2190	1.1215	Ave		1.2260			0.0000	14.8		15.0			
Fluorene	1.5097 1.3767	1.6462 1.1794	1.6636	1.5206	1.4287	Ave		1.4750			0.0000	11.3		15.0			
Phenanthrene	1.3907 1.0142	1.2926 0.9287	1.2725	1.1400	1.0724	Ave		1.1587			0.0000	14.4		15.0			
Anthracene	1.3104 1.0706	1.3619 0.9491	1.3564	1.2393	1.1461	Ave		1.2048			0.0000	13.0		15.0			
Carbazole	1.1993 1.0651	1.2721 1.0036	1.3075	1.1642	1.1242	Ave		1.1623			0.0000	9.3		15.0			
Fluoranthene	1.3009 1.2420	1.4074 1.1640	1.5310	1.3979	1.3252	Ave		1.3383			0.0000	9.0		15.0			
Pyrene	1.4167 1.4769	1.6244 1.4080	1.6725	1.5706	1.5132	Ave		1.5260			0.0000	6.6		15.0			
Benzo[a]anthracene	1.5532 1.2283	1.2438 1.3069	1.3074	1.2316	1.2729	Ave		1.3063			0.0000	8.7		15.0			
Chrysene	1.5597 1.2058	1.4759 1.1272	1.3919	1.3009	1.2153	Ave		1.3253			0.0000	11.9		15.0			
Benzo[b]fluoranthene	1.0058 1.1221	1.2872 1.1499	1.3036	1.2968	1.3352	Ave		1.2144			0.0000	10.1		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-89791-2 Analy Batch No.: 136892

SDG No.: 68089791-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/26/2013 10:03 Calibration End Date: 04/26/2013 11:34 Calibration ID: 2919

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.5807 1.2951	1.4811 1.1583	1.6305	1.3756	1.2523	Ave		1.3962			0.0000	12.5		15.0			
Benzo[a]pyrene	1.0264 1.1766	1.1712 1.1154	1.3812	1.3107	1.2749	Ave		1.2081			0.0000	10.1		15.0			
Indeno[1,2,3-cd]pyrene	0.9109 1.1772	1.0019 1.2427	1.2020	1.2085	1.2416	Ave		1.1407			0.0000	11.4		15.0			
Dibenz(a,h)anthracene	0.8117 1.0574	1.0829 1.0146	1.2099	1.1482	1.1048	Ave		1.0613			0.0000	11.9		15.0			
Benzo[g,h,i]perylene	1.1500 1.2201	1.3387 1.2159	1.4017	1.3373	1.2727	Ave		1.2766			0.0000	6.9		15.0			
o-Terphenyl	0.7073 0.5831	0.7372 0.5170	0.7524	0.6639	0.6189	Ave		0.6543			0.0000	13.2		15.0			

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

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-89791-2 Analy B

SDG No.: 68089791-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated

Calibration Start Date: 04/26/2013 10:03 Calibration End Date: 04/26/2013 11:34 Calibra

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136892/3	1AD26003.D
Level 2	IC 660-136892/4	1AD26004.D
Level 3	IC 660-136892/5	1AD26005.D
Level 4	IC 660-136892/6	1AD26006.D
Level 5	ICIS 660-136892/7	1AD26007.D
Level 6	IC 660-136892/8	1AD26008.D
Level 7	IC 660-136892/9	1AD26009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CO	
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7
Naphthalene	NPT	Ave	11316 1510520	61217 2445644	320082	595222	1158716	0.200 30.0	1. 50
2-Methylnaphthalene	NPT	Ave	6318 827941	37078 1310841	193264	341254	669822	0.200 30.0	1. 50
1-Methylnaphthalene	NPT	Ave	7562 894050	41731 1398370	216239	376560	706538	0.200 30.0	1. 50
Acenaphthylene	ANT	Ave	12402 1556064	68056 2504346	366926	648059	1265667	0.200 30.0	1. 50
Acenaphthene	ANT	Ave	7399 810394	35926 1267057	188346	324917	634267	0.200 30.0	1. 50
Fluorene	ANT	Ave	7912 1002855	42211 1599840	226787	405299	807968	0.200 30.0	1. 50
Phenanthrene	PHN	Ave	12552 1299367	56771 2139281	300982	533287	1040972	0.200 30.0	1. 50
Anthracene	PHN	Ave	11827 1371502	59817 2186210	320832	579771	1112517	0.200 30.0	1. 50
Carbazole	PHN	Ave	10825 1364561	55869 2311786	309273	544612	1091227	0.200 30.0	1. 50
Fluoranthene	PHN	Ave	11742 1591115	61813 2681447	362121	653973	1286350	0.200 30.0	1. 50
Pyrene	CRY	Ave	12588 1716784	69806 2760027	387490	693219	1367080	0.200 30.0	1. 50
Benzo[a]anthracene	CRY	Ave	13801 1427778	53450 2561817	302918	543586	1149947	0.200 30.0	1. 50
Chrysene	CRY	Ave	13859 1401601	63425 2209729	322491	574179	1097962	0.200 30.0	1. 50
Benzo[b]fluoranthene	PRY	Ave	9306 1402018	56273 2501570	315397	597877	1243307	0.200 30.0	1. 50
Benzo[k]fluoranthene	PRY	Ave	14625 1618107	64750 2519945	394484	634191	1166129	0.200 30.0	1. 50
Benzo[a]pyrene	PRY	Ave	9497 1470103	51202 2426657	334183	604286	1187145	0.200 30.0	1. 50
Indeno[1,2,3-cd]pyrene	PRY	Ave	8428 1470861	43801 2703546	290809	557142	1156108	0.200 30.0	1. 50
Dibenz(a,h)anthracene	PRY	Ave	7510 1321140	47341 2207196	292736	529334	1028761	0.200 30.0	1. 50
Benzo[g,h,i]perylene	PRY	Ave	10640 1524482	58526 2645132	339141	616524	1185137	0.200 30.0	1. 50
o-Terphenyl	PHN	Ave	6384 747046	32378 1190919	177967	310562	600782	0.200 30.0	1. 50

Curve Type Legend:
Ave = Average ISTD

136892

N

2919

LVL 3	LVL 4	LVL 5
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26003.D
Lab Smp Id: IC-1531396
Inj Date : 26-APR-2013 10:03
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531396
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 26-APR-2013 11:03 Cal File: 1AD26007.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	2.578	2.580	(1.000)	2307813	40.0000	
* 6 Acenaphthene-d10	164	3.609	3.606	(1.000)	1048180	40.0000	
* 10 Phenanthrene-d10	188	4.560	4.562	(1.000)	1805166	40.0000	
$ 14 o-Terphenyl	230	4.859	4.861	(1.066)	6384	0.20000	0.1909
* 18 Chrysene-d12	240	6.579	6.581	(1.000)	1777148	40.0000	
* 23 Perylene-d12	264	7.664	7.666	(1.000)	1850467	40.0000	
2 Naphthalene	128	2.589	2.591	(1.004)	11316	0.20000	0.2368
3 2-Methylnaphthalene	141	2.995	2.997	(1.162)	6318	0.20000	0.2274
4 1-Methylnaphthalene	142	3.048	3.050	(1.182)	7562	0.20000	0.1607
5 Acenaphthylene	152	3.518	3.520	(0.975)	12402	0.20000	0.3039
7 Acenaphthene	154	3.625	3.627	(1.004)	7399	0.20000	0.4114
9 Fluorene	166	3.935	3.942	(1.090)	7912	0.20000	0.4114
11 Phenanthrene	178	4.571	4.578	(1.002)	12552	0.20000	0.1032
12 Anthracene	178	4.603	4.610	(1.009)	11827	0.20000	0.2150
13 Carbazole	167	4.731	4.738	(1.037)	10825	0.20000	0.0501
15 Fluoranthene	202	5.436	5.438	(1.192)	11742	0.20000	0.0685
16 Pyrene	202	5.602	5.604	(0.851)	12588	0.20000	0.1856
17 Benzo(a)anthracene	228	6.569	6.565	(0.998)	13801	0.20000	0.2377
19 Chrysene	228	6.590	6.597	(1.002)	13859	0.20000	0.2353
20 Benzo(b)fluoranthene	252	7.381	7.388	(0.963)	9306	0.20000	0.1656
21 Benzo(k)fluoranthene	252	7.397	7.409	(0.965)	14625	0.20000	0.2264(M)
22 Benzo(a)pyrene	252	7.605	7.612	(0.992)	9497	0.20000	-0.7697(a)
24 Indeno(1,2,3-cd)pyrene	276	8.417	8.430	(1.098)	8428	0.20000	0.3771(M)
25 Dibenzo(a,h)anthracene	278	8.444	8.457	(1.102)	7510	0.20000	0.1529
26 Benzo(g,h,i)perylene	276	8.631	8.654	(1.126)	10640	0.20000	0.1801(M)

QC Flag Legend

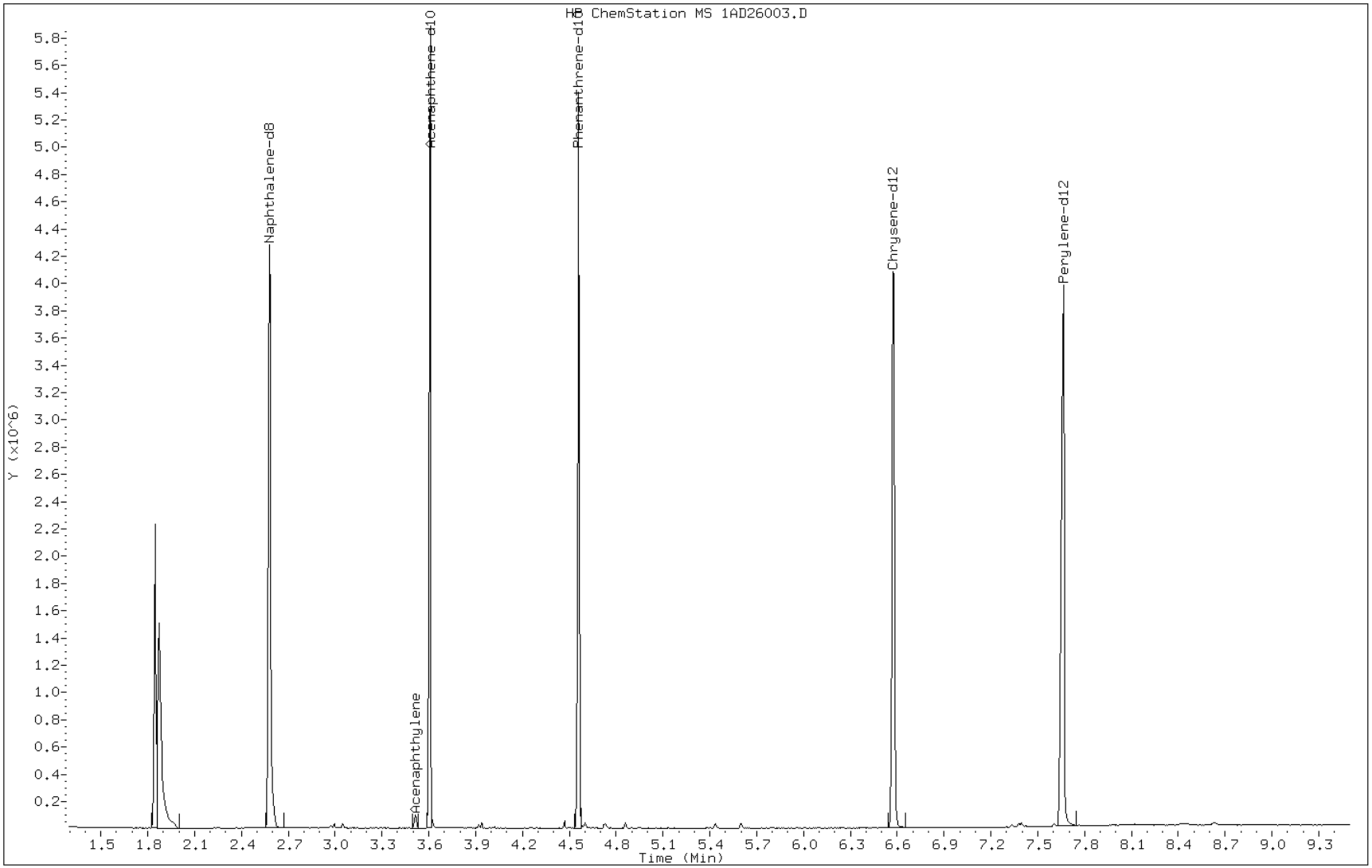
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: 1AD26003.D

Date: 26-APR-2013 10:03

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531396 Operator: SCC



Manual Integration Report

Data File: 1AD26003.D
Inj. Date and Time: 26-APR-2013 10:03
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/26/2013

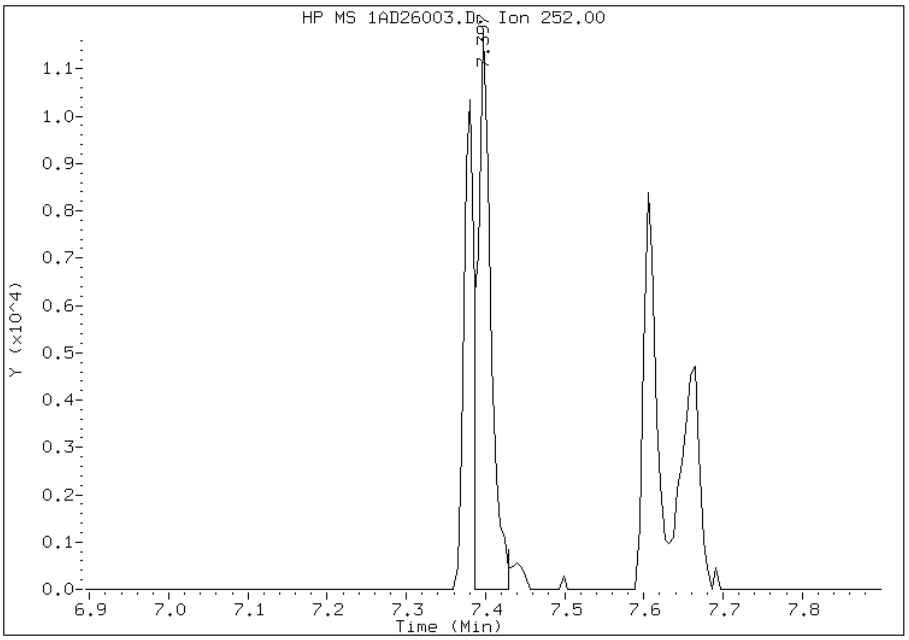
Processing Integration Results

RT: 7.40

Response: 14089

Amount: 0

Conc: 0



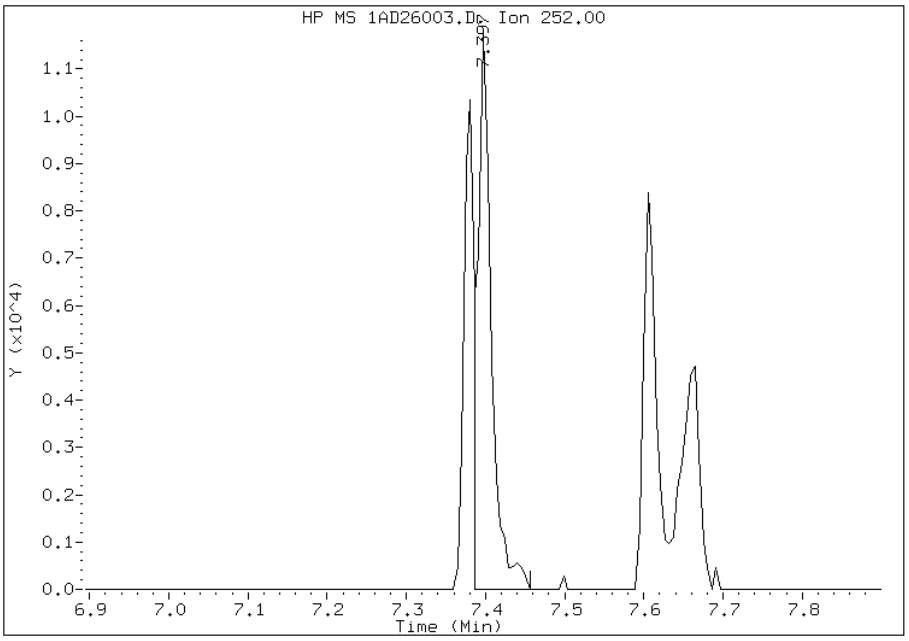
Manual Integration Results

RT: 7.40

Response: 14625

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD26003.D
Inj. Date and Time: 26-APR-2013 10:03
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/26/2013

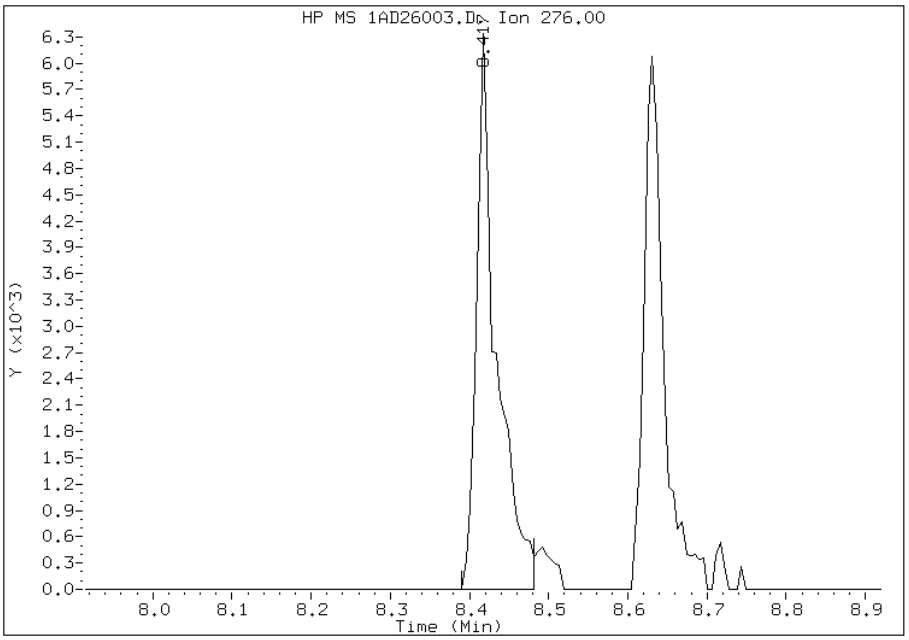
Processing Integration Results

RT: 8.42

Response: 10930

Amount: 0

Conc: 0



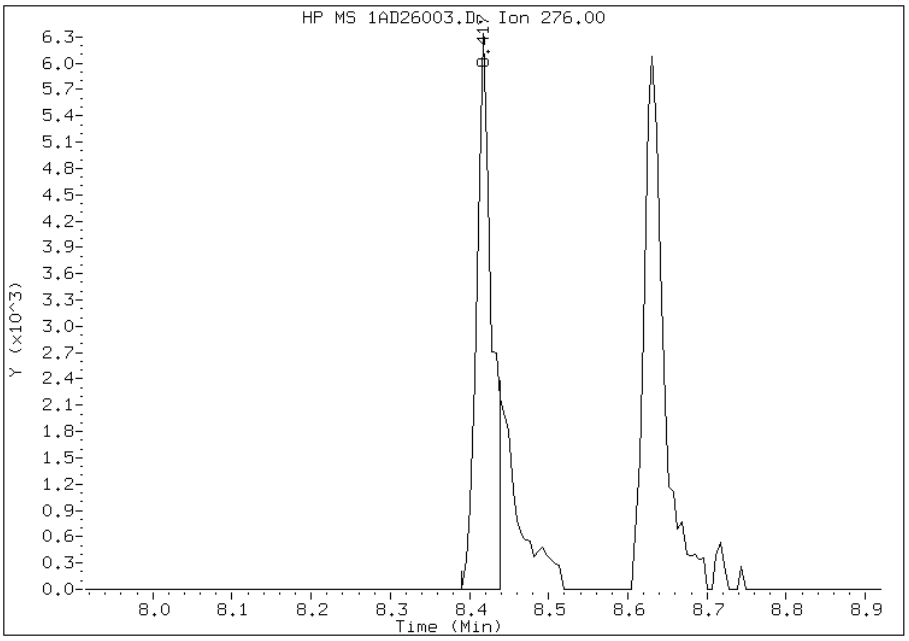
Manual Integration Results

RT: 8.42

Response: 8428

Amount: 0

Conc: 0



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

Manual Integration Report

Data File: 1AD26003.D
Inj. Date and Time: 26-APR-2013 10:03
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/26/2013

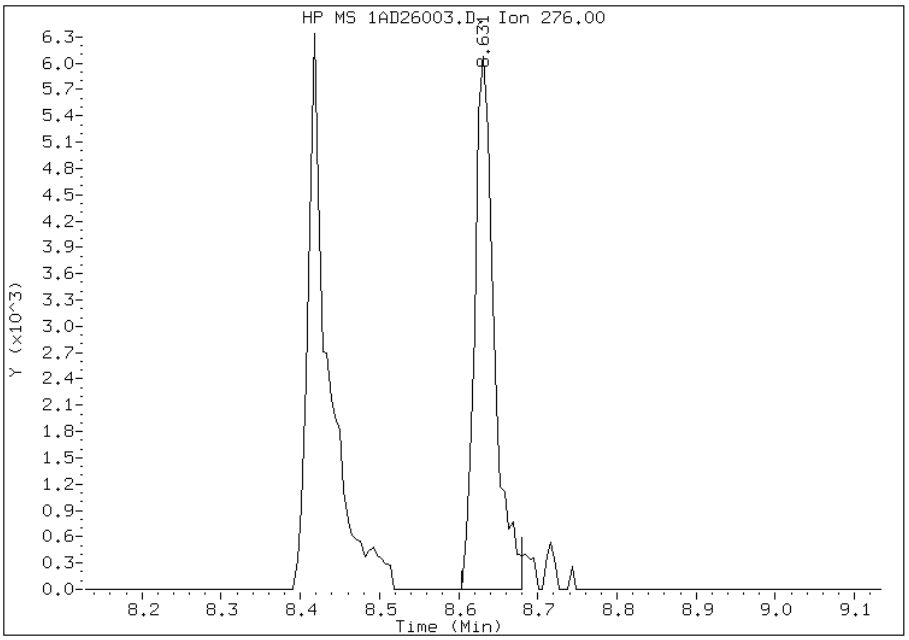
Processing Integration Results

RT: 8.63

Response: 10297

Amount: 0

Conc: 0



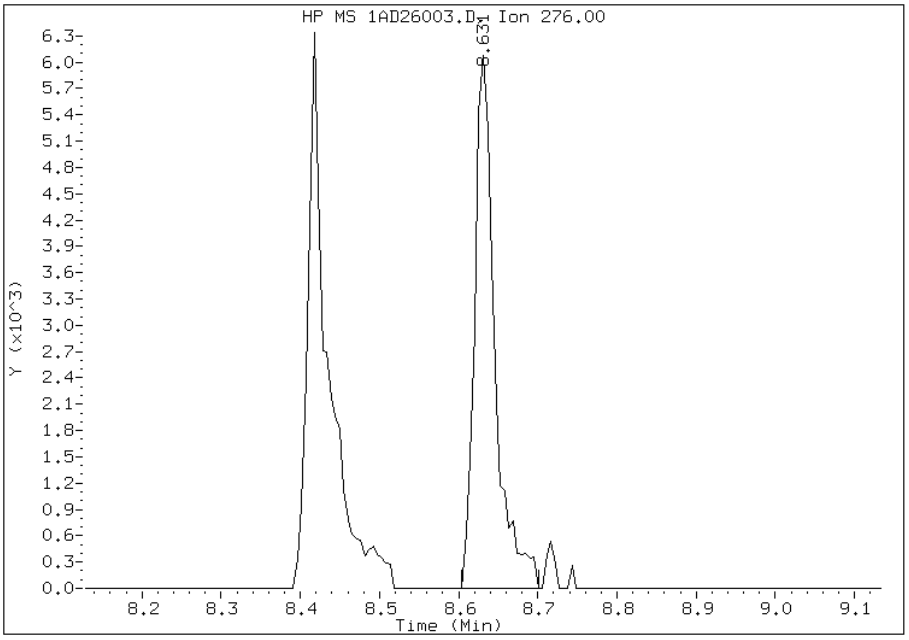
Manual Integration Results

RT: 8.63

Response: 10640

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:51
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26004.D
Lab Smp Id: IC-1531398
Inj Date : 26-APR-2013 10:18
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531398
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 26-APR-2013 10:03 Cal File: 1AD26003.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	2.581	2.580	(1.000)	2281622	40.0000	
*	6 Acenaphthene-d10	164	3.607	3.606	(1.000)	1025638	40.0000	
*	10 Phenanthrene-d10	188	4.558	4.562	(1.000)	1756807	40.0000	
$	14 o-Terphenyl	230	4.857	4.861	(1.066)	32378	1.00000	0.9805
*	18 Chrysene-d12	240	6.577	6.581	(1.000)	1718926	40.0000	
*	23 Perylene-d12	264	7.656	7.666	(1.000)	1748681	40.0000	
	2 Naphthalene	128	2.592	2.591	(1.004)	61217	1.00000	1.0359
	3 2-Methylnaphthalene	141	2.993	2.997	(1.159)	37078	1.00000	1.0345
	4 1-Methylnaphthalene	142	3.051	3.050	(1.182)	41731	1.00000	0.9917
	5 Acenaphthylene	152	3.516	3.520	(0.975)	68056	1.00000	1.0573
	7 Acenaphthene	154	3.623	3.627	(1.004)	35926	1.00000	1.1516
	9 Fluorene	166	3.938	3.942	(1.092)	42211	1.00000	1.1307
	11 Phenanthrene	178	4.574	4.578	(1.004)	56771	1.00000	0.9390
	12 Anthracene	178	4.606	4.610	(1.011)	59817	1.00000	0.9961
	13 Carbazole	167	4.734	4.738	(1.039)	55869	1.00000	0.9041
	15 Fluoranthene	202	5.434	5.438	(1.192)	61813	1.00000	0.8589
	16 Pyrene	202	5.600	5.604	(0.851)	69806	1.00000	1.0644
	17 Benzo(a)anthracene	228	6.561	6.565	(0.998)	53450	1.00000	0.9521
	19 Chrysene	228	6.588	6.597	(1.002)	63425	1.00000	1.1136
	20 Benzo(b)fluoranthene	252	7.379	7.388	(0.964)	56273	1.00000	1.0599
	21 Benzo(k)fluoranthene	252	7.400	7.409	(0.967)	64750	1.00000	1.0607(M)
	22 Benzo(a)pyrene	252	7.603	7.612	(0.993)	51202	1.00000	0.0904
	24 Indeno(1,2,3-cd)pyrene	276	8.410	8.430	(1.098)	43801	1.00000	1.0407(M)
	25 Dibenzo(a,h)anthracene	278	8.436	8.457	(1.102)	47341	1.00000	1.0203(M)
	26 Benzo(g,h,i)perylene	276	8.623	8.654	(1.126)	58526	1.00000	1.0486(M)

QC Flag Legend

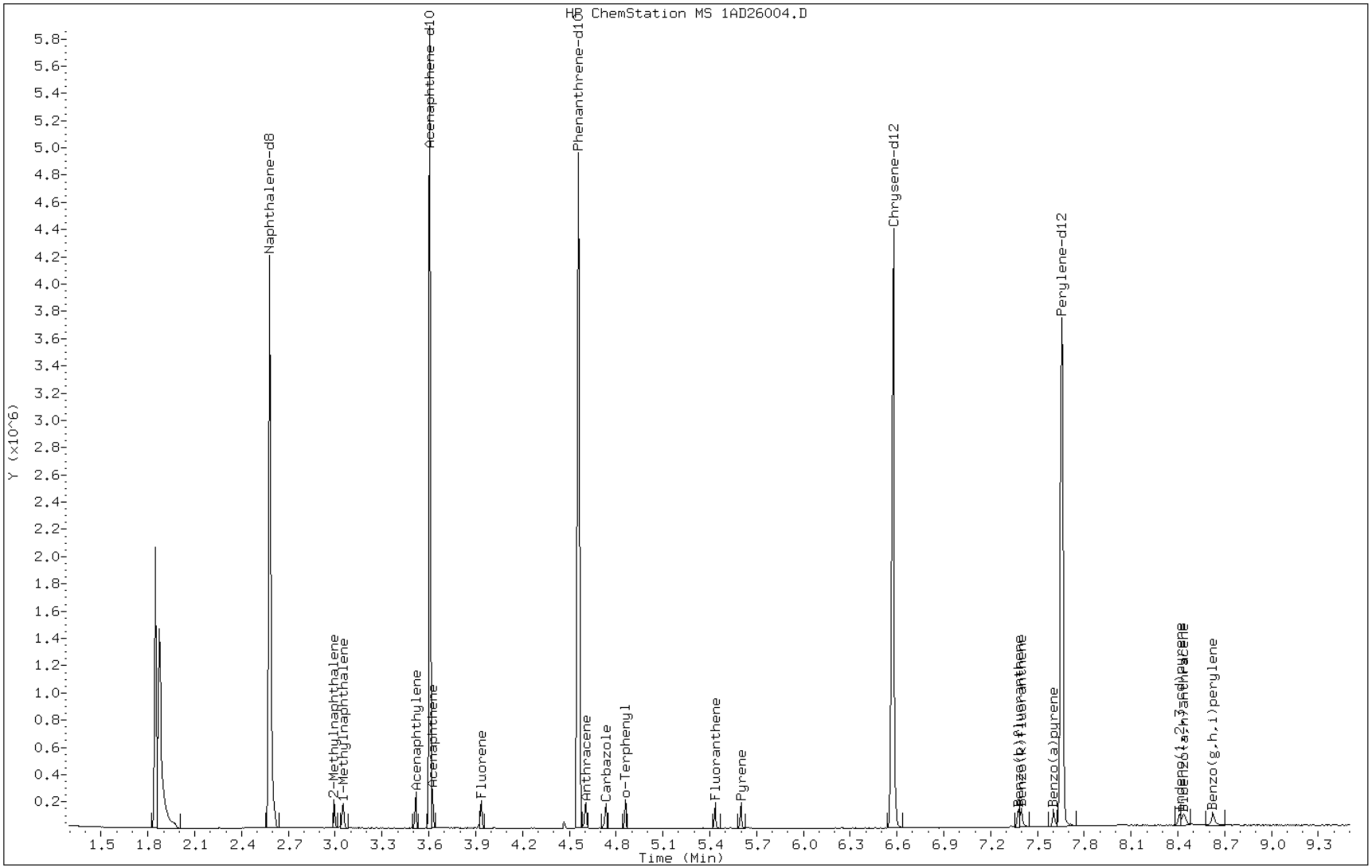
M - Compound response manually integrated.

Data File: 1AD26004.D

Date: 26-APR-2013 10:18

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531398 Operator: SCC



Manual Integration Report

Data File: 1AD26004.D
Inj. Date and Time: 26-APR-2013 10:18
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/26/2013

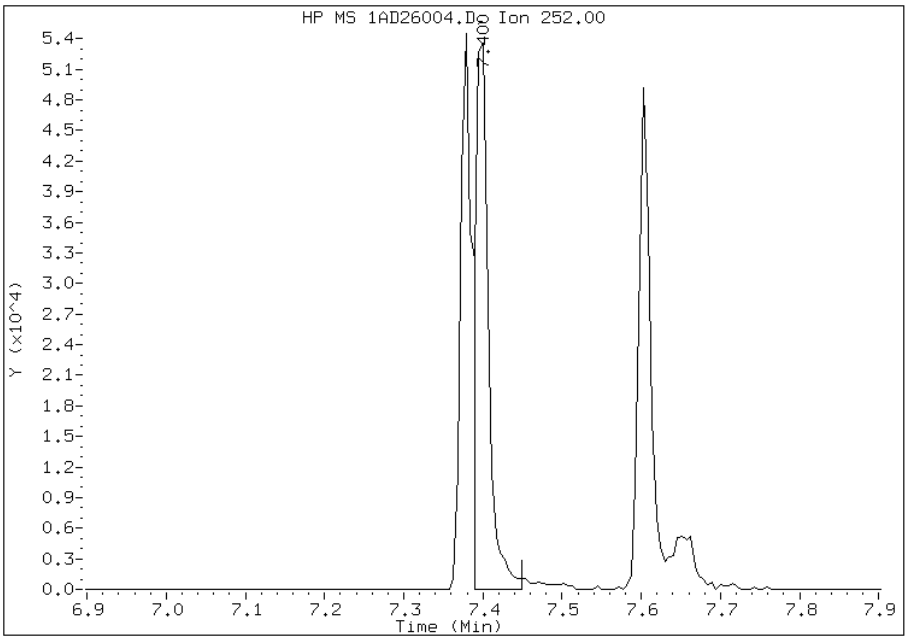
Processing Integration Results

RT: 7.40

Response: 62638

Amount: 1

Conc: 1



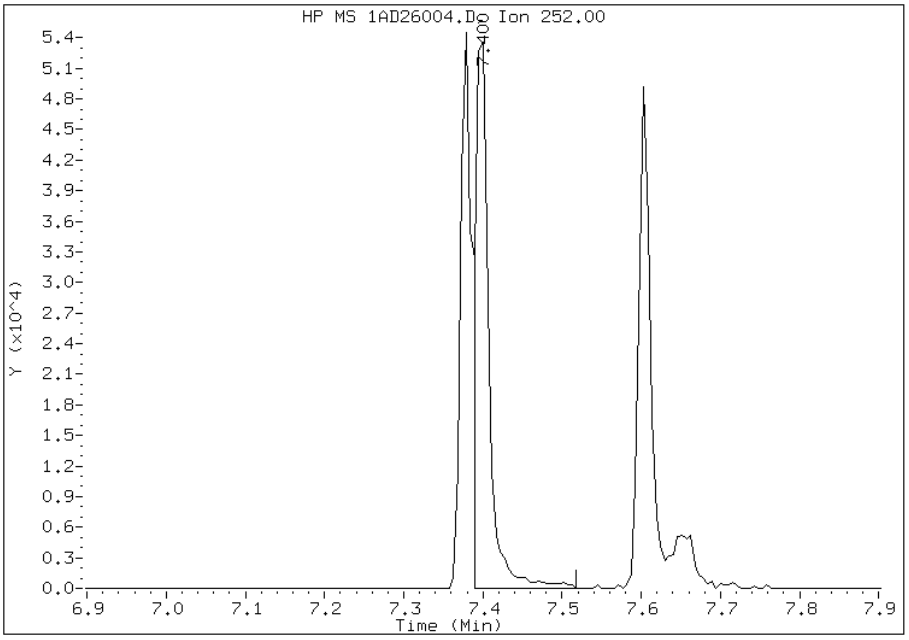
Manual Integration Results

RT: 7.40

Response: 64750

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:51
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD26004.D
Inj. Date and Time: 26-APR-2013 10:18
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/26/2013

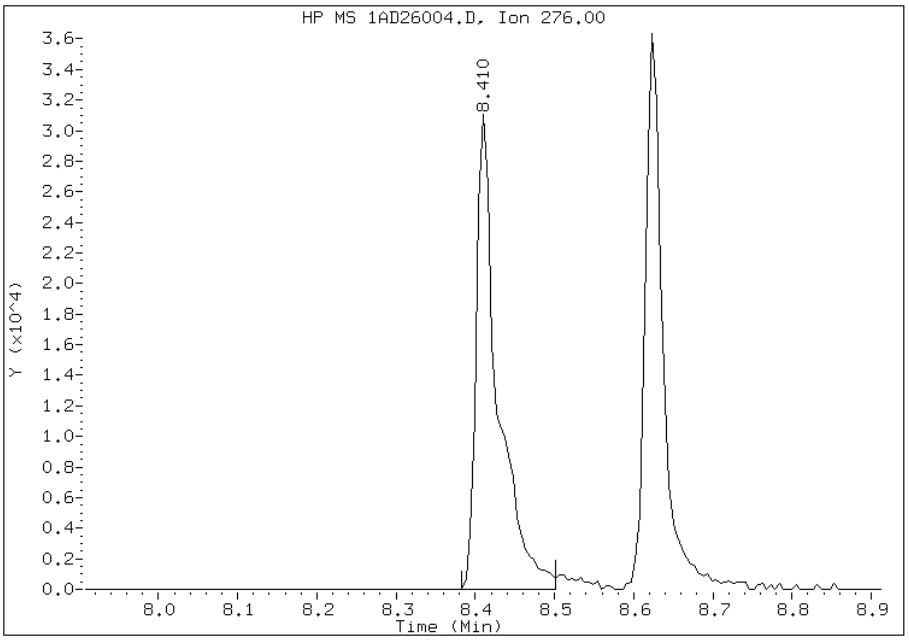
Processing Integration Results

RT: 8.41

Response: 58698

Amount: 1

Conc: 1



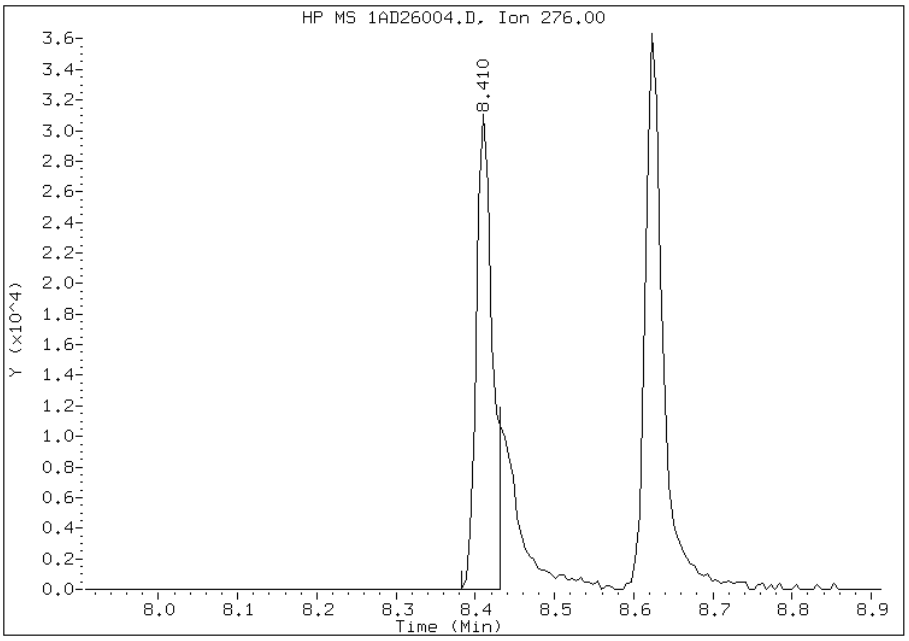
Manual Integration Results

RT: 8.41

Response: 43801

Amount: 1

Conc: 1



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

Manual Integration Report

Data File: 1AD26004.D
Inj. Date and Time: 26-APR-2013 10:18
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/26/2013

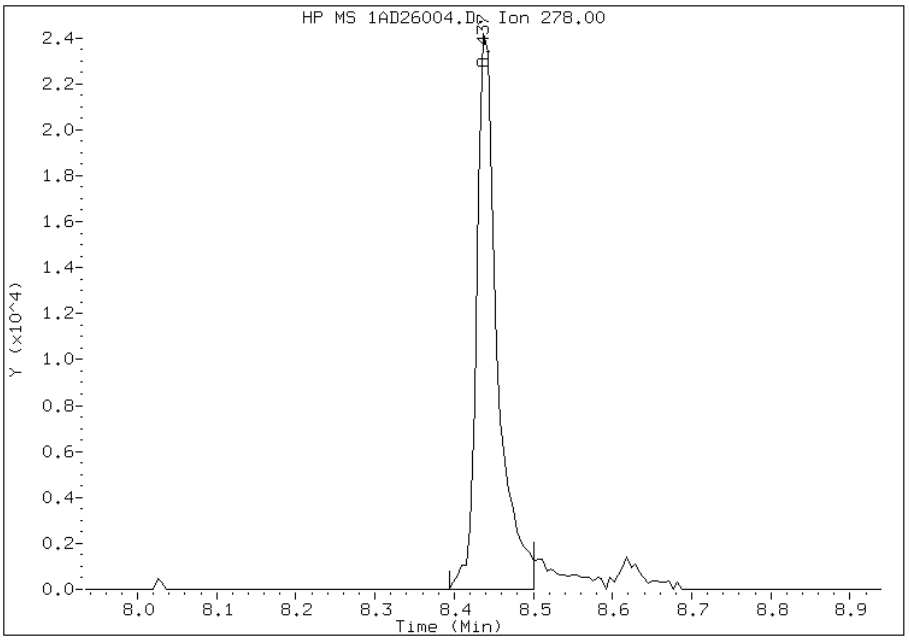
Processing Integration Results

RT: 8.44

Response: 43759

Amount: 1

Conc: 1



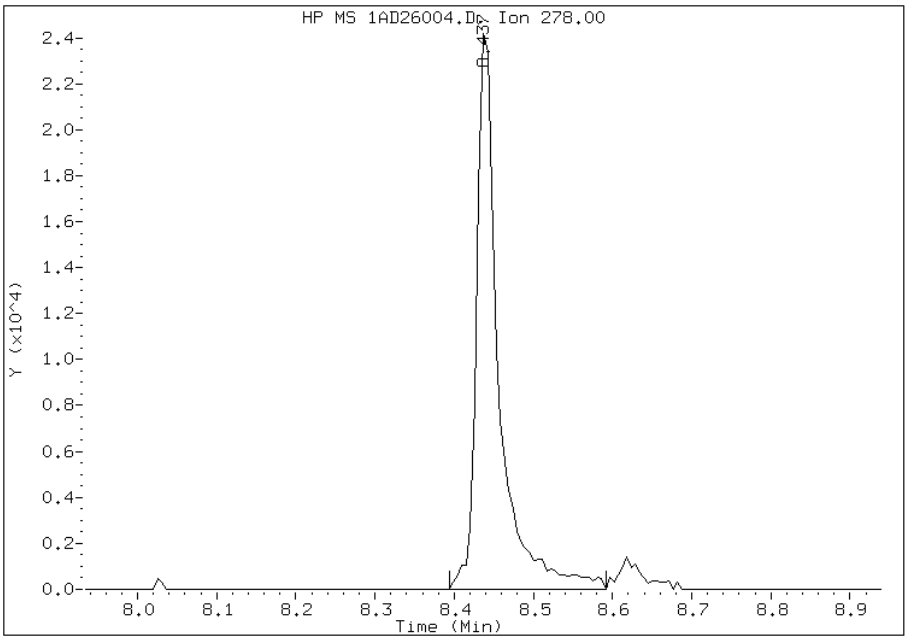
Manual Integration Results

RT: 8.44

Response: 47341

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD26004.D
Inj. Date and Time: 26-APR-2013 10:18
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/26/2013

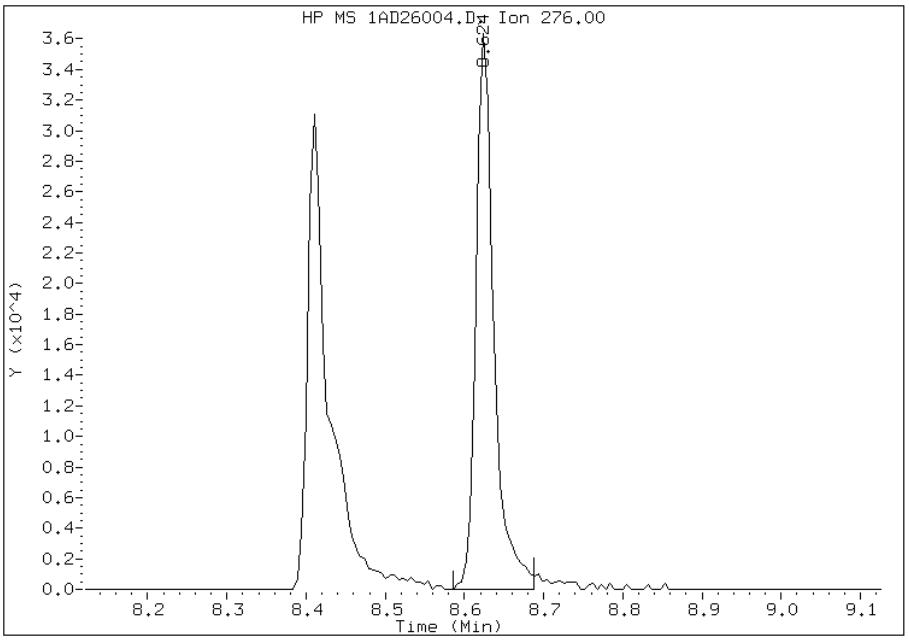
Processing Integration Results

RT: 8.62

Response: 56611

Amount: 1

Conc: 1



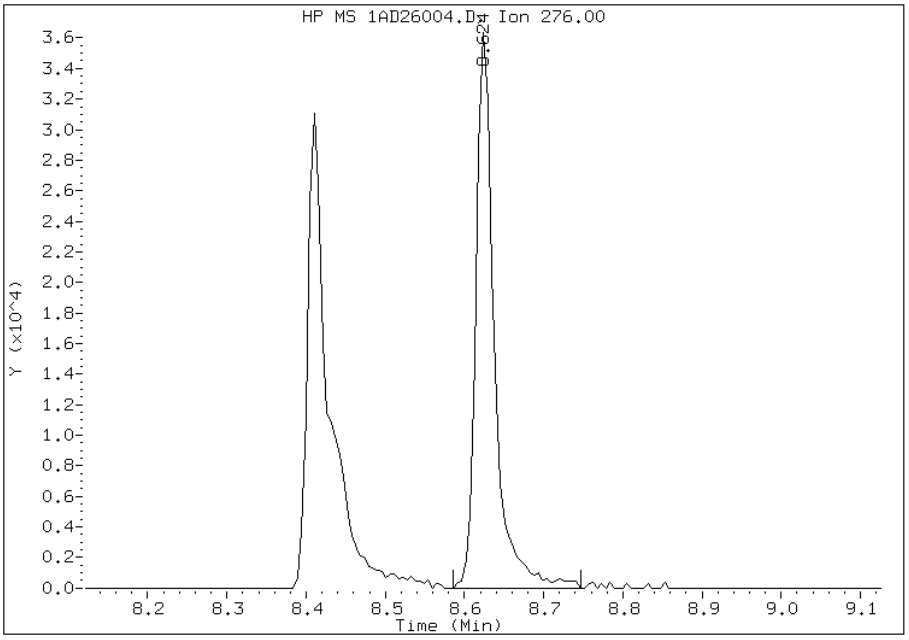
Manual Integration Results

RT: 8.62

Response: 58526

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:52
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26005.D
Lab Smp Id: IC-1531399
Inj Date : 26-APR-2013 10:33
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531399
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 26-APR-2013 10:18 Cal File: 1AD26004.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	2.576	2.580	(1.000) 2369530	40.0000	
*	6 Acenaphthene-d10	164	3.607	3.606	(1.000) 1090579	40.0000	
*	10 Phenanthrene-d10	188	4.558	4.562	(1.000) 1892246	40.0000	
$	14 o-Terphenyl	230	4.862	4.861	(1.067) 177967	5.00000	5.2550
*	18 Chrysene-d12	240	6.577	6.581	(1.000) 1853494	40.0000	
*	23 Perylene-d12	264	7.662	7.666	(1.000) 1935554	40.0000	
	2 Naphthalene	128	2.592	2.591	(1.006) 320082	5.00000	5.0894
	3 2-Methylnaphthalene	141	2.993	2.997	(1.162) 193264	5.00000	5.1484
	4 1-Methylnaphthalene	142	3.051	3.050	(1.185) 216239	5.00000	5.2724
	5 Acenaphthylene	152	3.516	3.520	(0.975) 366926	5.00000	5.0915
	7 Acenaphthene	154	3.623	3.627	(1.004) 188346	5.00000	5.1131
	9 Fluorene	166	3.938	3.942	(1.092) 226787	5.00000	4.9845
	11 Phenanthrene	178	4.574	4.578	(1.004) 300982	5.00000	5.2917
	12 Anthracene	178	4.606	4.610	(1.011) 320832	5.00000	5.1089
	13 Carbazole	167	4.734	4.738	(1.039) 309273	5.00000	5.3789
	15 Fluoranthene	202	5.434	5.438	(1.192) 362121	5.00000	5.3053
	16 Pyrene	202	5.600	5.604	(0.851) 387490	5.00000	5.4798
	17 Benzo(a)anthracene	228	6.566	6.565	(0.998) 302918	5.00000	5.0044
	19 Chrysene	228	6.593	6.597	(1.002) 322491	5.00000	5.2515
	20 Benzo(b)fluoranthene	252	7.378	7.388	(0.963) 315397	5.00000	5.3673
	21 Benzo(k)fluoranthene	252	7.400	7.409	(0.966) 394484	5.00000	5.8388
	22 Benzo(a)pyrene	252	7.608	7.612	(0.993) 334183	5.00000	5.1981
	24 Indeno(1,2,3-cd)pyrene	276	8.420	8.430	(1.099) 290809	5.00000	5.0945
	25 Dibenzo(a,h)anthracene	278	8.447	8.457	(1.102) 292736	5.00000	5.6999(M)
	26 Benzo(g,h,i)perylene	276	8.634	8.654	(1.127) 339141	5.00000	5.4899(M)

QC Flag Legend

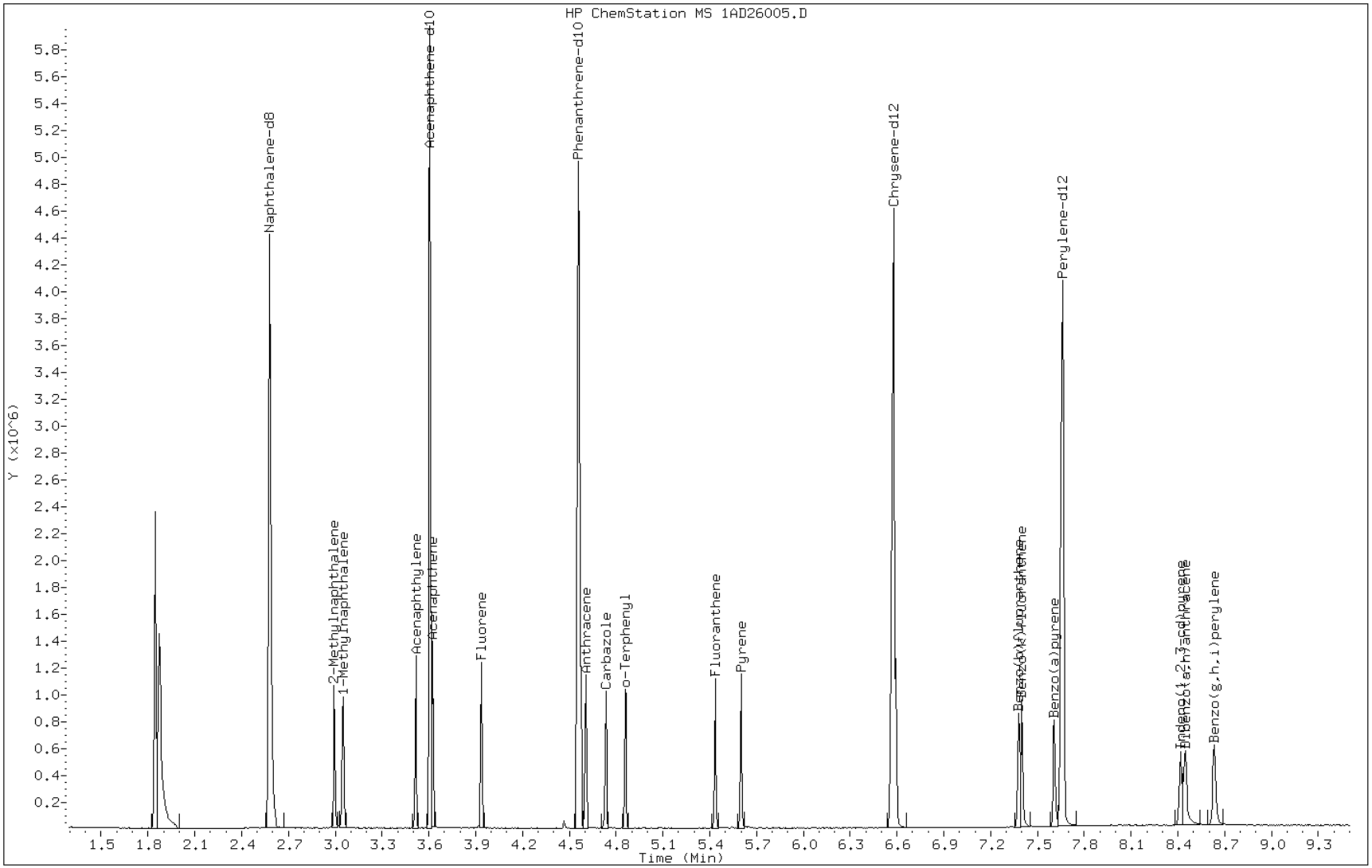
M - Compound response manually integrated.

Data File: 1AD26005.D

Date: 26-APR-2013 10:33

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531399 Operator: SCC



Manual Integration Report

Data File: 1AD26005.D
Inj. Date and Time: 26-APR-2013 10:33
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/26/2013

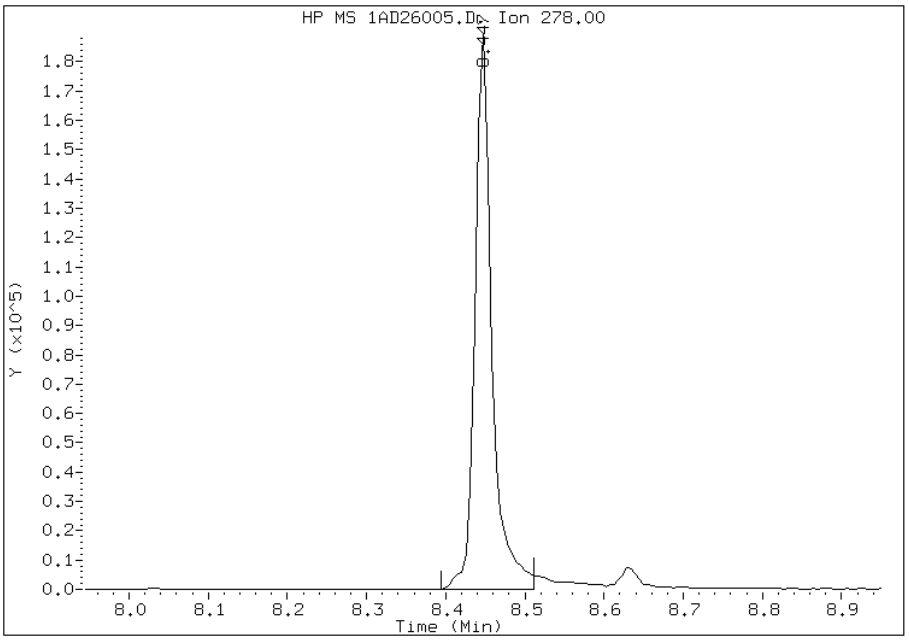
Processing Integration Results

RT: 8.45

Response: 277866

Amount: 6

Conc: 6



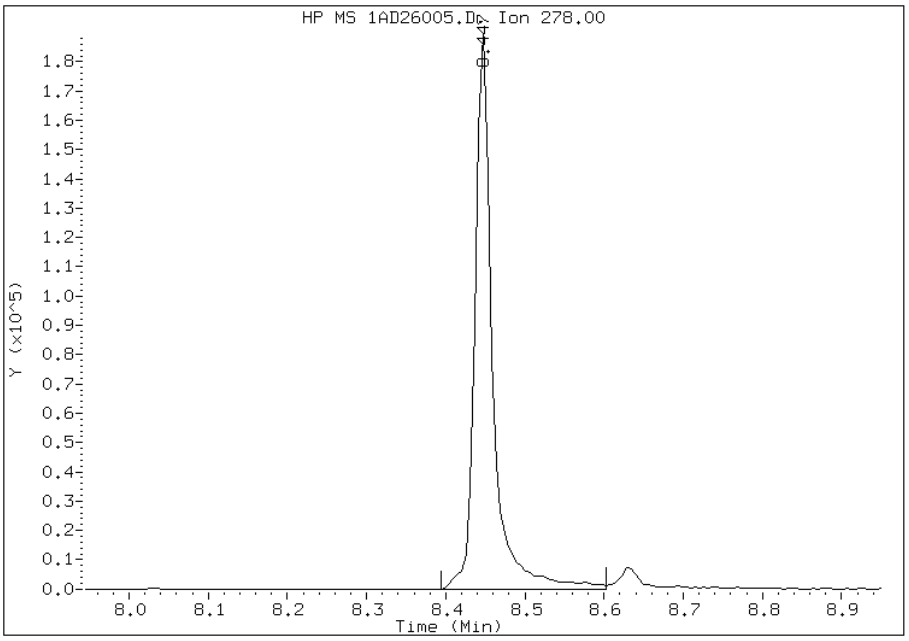
Manual Integration Results

RT: 8.45

Response: 292736

Amount: 6

Conc: 6



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

Manual Integration Report

Data File: 1AD26005.D
Inj. Date and Time: 26-APR-2013 10:33
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/26/2013

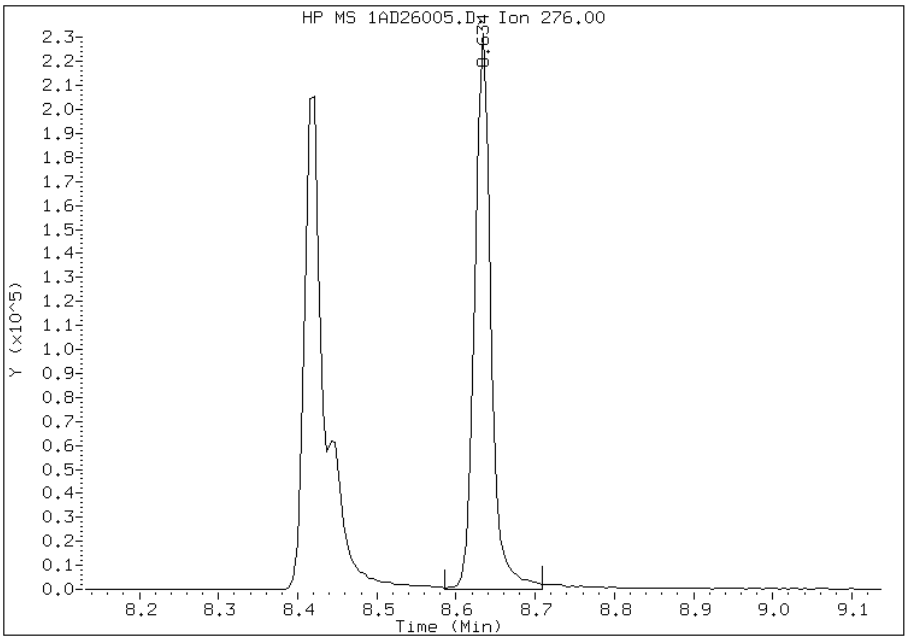
Processing Integration Results

RT: 8.63

Response: 328220

Amount: 5

Conc: 5



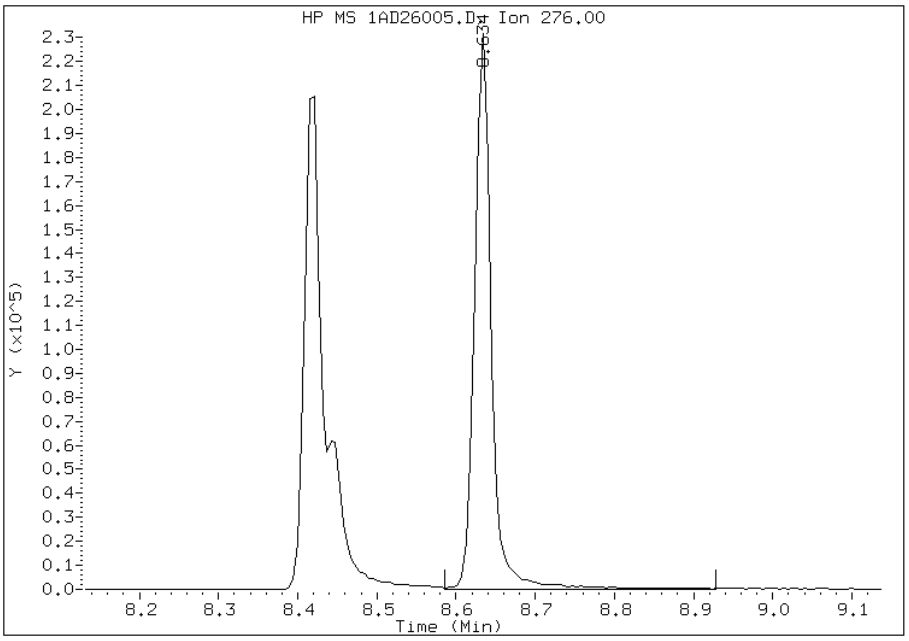
Manual Integration Results

RT: 8.63

Response: 339141

Amount: 5

Conc: 5



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26006.D
Lab Smp Id: IC-1531400
Inj Date : 26-APR-2013 10:48
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531400
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 26-APR-2013 10:33 Cal File: 1AD26005.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
*	1 Naphthalene-d8	136	2.581	2.580	(1.000)	2323692	40.0000	
*	6 Acenaphthene-d10	164	3.606	3.606	(1.000)	1066140	40.0000	
*	10 Phenanthrene-d10	188	4.563	4.562	(1.000)	1871240	40.0000	
$	14 o-Terphenyl	230	4.862	4.861	(1.066)	310562	10.0000	9.7321
*	18 Chrysene-d12	240	6.582	6.581	(1.000)	1765506	40.0000	
*	23 Perylene-d12	264	7.661	7.666	(1.000)	1844103	40.0000	
	2 Naphthalene	128	2.591	2.591	(1.004)	595222	10.0000	9.8376
	3 2-Methylnaphthalene	141	2.997	2.997	(1.161)	341254	10.0000	9.6150
	4 1-Methylnaphthalene	142	3.051	3.050	(1.182)	376560	10.0000	9.8086
	5 Acenaphthylene	152	3.515	3.520	(0.975)	648059	10.0000	9.6521
	7 Acenaphthene	154	3.622	3.627	(1.004)	324917	10.0000	9.4098
	9 Fluorene	166	3.937	3.942	(1.092)	405299	10.0000	9.4592
	11 Phenanthrene	178	4.573	4.578	(1.002)	533287	10.0000	9.9071
	12 Anthracene	178	4.605	4.610	(1.009)	579771	10.0000	9.8285
	13 Carbazole	167	4.739	4.738	(1.039)	544612	10.0000	9.9049
	15 Fluoranthene	202	5.439	5.438	(1.192)	653973	10.0000	10.0511
	16 Pyrene	202	5.604	5.604	(0.851)	693219	10.0000	10.2919
	17 Benzo(a)anthracene	228	6.566	6.565	(0.998)	543586	10.0000	9.4280
	19 Chrysene	228	6.598	6.597	(1.002)	574179	10.0000	9.8161
	20 Benzo(b)fluoranthene	252	7.383	7.388	(0.964)	597877	10.0000	10.6790
	21 Benzo(k)fluoranthene	252	7.405	7.409	(0.967)	634191	10.0000	9.8523
	22 Benzo(a)pyrene	252	7.608	7.612	(0.993)	604286	10.0000	10.7211
	24 Indeno(1,2,3-cd)pyrene	276	8.420	8.430	(1.099)	557142	10.0000	10.0121
	25 Dibenzo(a,h)anthracene	278	8.446	8.457	(1.103)	529334	10.0000	10.8180(M)
	26 Benzo(g,h,i)perylene	276	8.639	8.654	(1.128)	616524	10.0000	10.4750(M)

QC Flag Legend

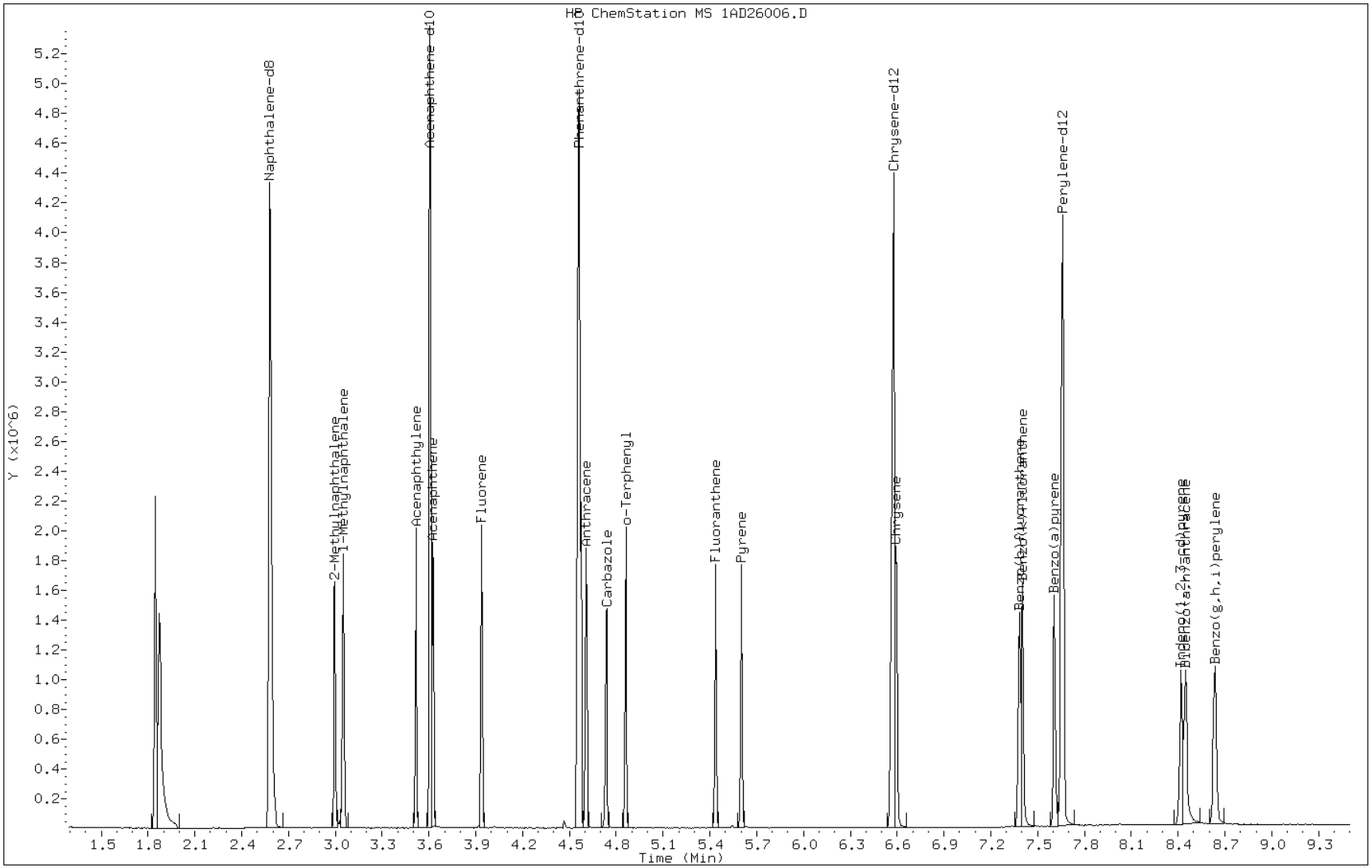
M - Compound response manually integrated.

Data File: 1AD26006.D

Date: 26-APR-2013 10:48

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531400 Operator: SCC



Manual Integration Report

Data File: 1AD26006.D
Inj. Date and Time: 26-APR-2013 10:48
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/26/2013

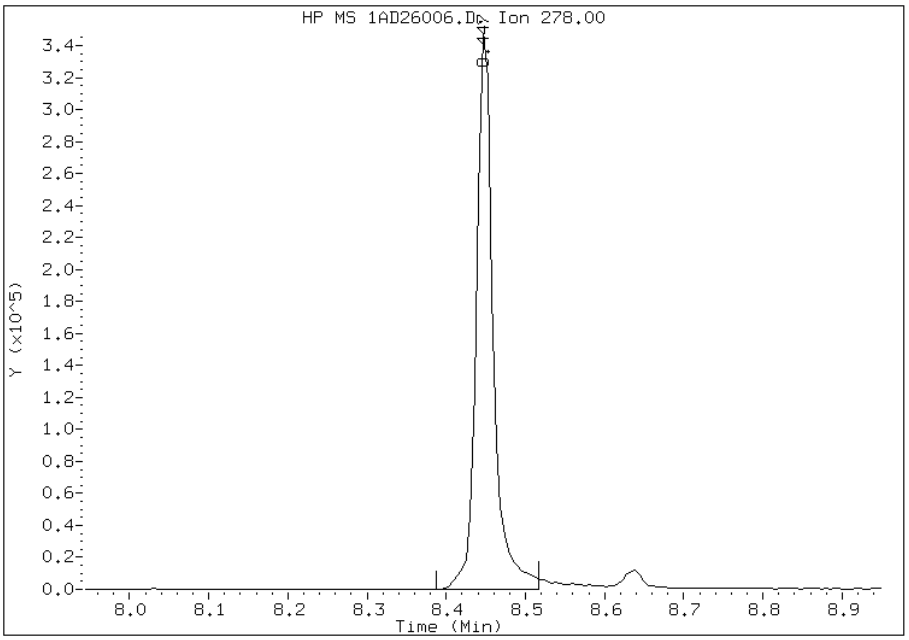
Processing Integration Results

RT: 8.45

Response: 511528

Amount: 11

Conc: 11



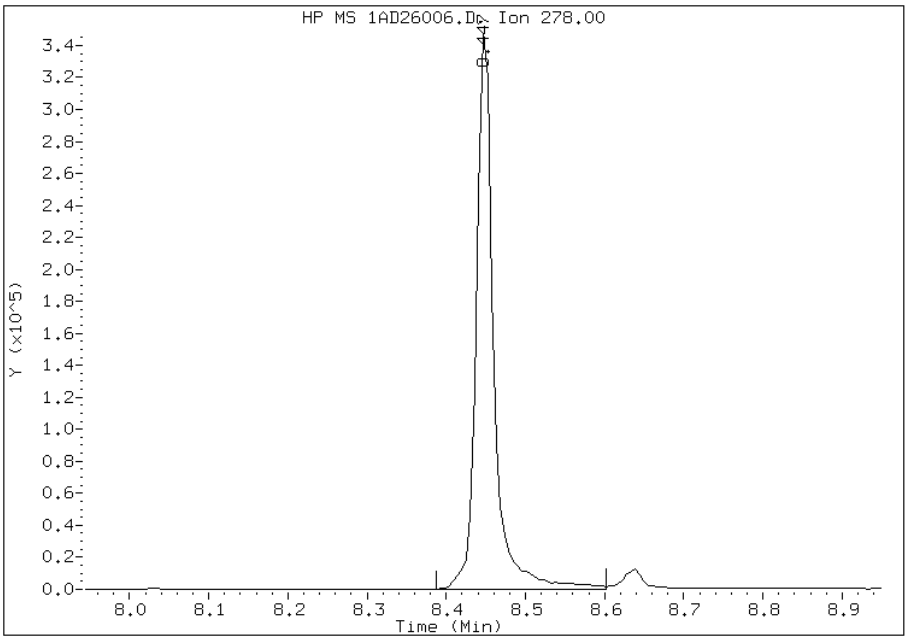
Manual Integration Results

RT: 8.45

Response: 529334

Amount: 11

Conc: 11



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:54
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD26006.D
Inj. Date and Time: 26-APR-2013 10:48
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/26/2013

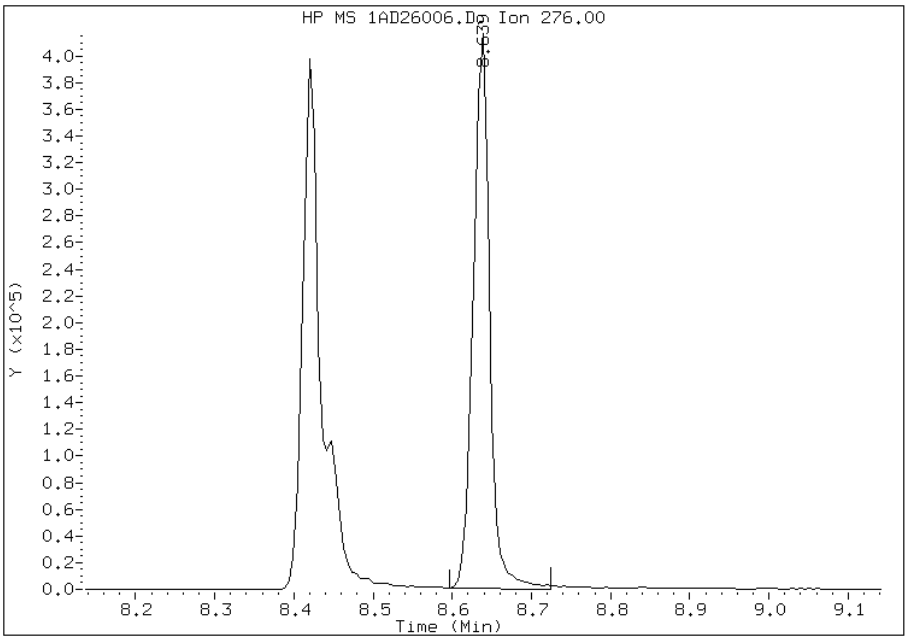
Processing Integration Results

RT: 8.64

Response: 592263

Amount: 10

Conc: 10



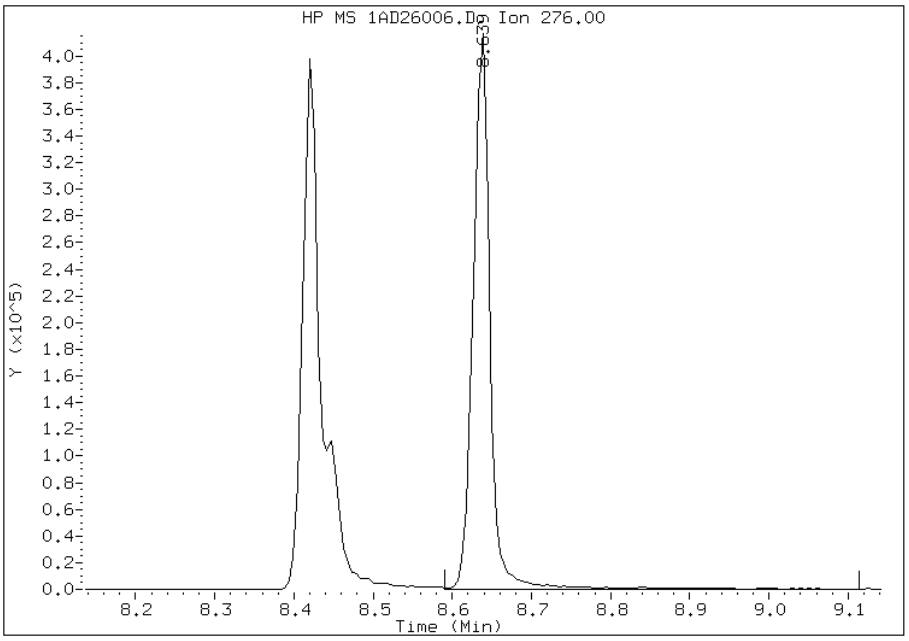
Manual Integration Results

RT: 8.64

Response: 616524

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:54
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26007.D
Lab Smp Id: ICIS-1531401
Inj Date : 26-APR-2013 11:03
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 26-APR-2013 10:48 Cal File: 1AD26006.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	2.580	2.580	(1.000)	2358748	40.0000	
* 6 Acenaphthene-d10	164	3.606	3.606	(1.000)	1131055	40.0000	
* 10 Phenanthrene-d10	188	4.562	4.562	(1.000)	1941405	40.0000	
$ 14 o-Terphenyl	230	4.861	4.861	(1.066)	600782	20.0000	19.8656
* 18 Chrysene-d12	240	6.581	6.581	(1.000)	1806882	40.0000	
* 23 Perylene-d12	264	7.666	7.666	(1.000)	1862358	40.0000	
2 Naphthalene	128	2.591	2.591	(1.004)	1158716	20.0000	19.7046
3 2-Methylnaphthalene	141	2.997	2.997	(1.161)	669822	20.0000	20.1454
4 1-Methylnaphthalene	142	3.050	3.050	(1.182)	706538	20.0000	19.6964
5 Acenaphthylene	152	3.520	3.520	(0.976)	1265667	20.0000	19.6212
7 Acenaphthene	154	3.627	3.627	(1.006)	634267	20.0000	19.1257
9 Fluorene	166	3.942	3.942	(1.093)	807968	20.0000	19.5803
11 Phenanthrene	178	4.578	4.578	(1.004)	1040972	20.0000	19.9793
12 Anthracene	178	4.610	4.610	(1.011)	1112517	20.0000	19.9518
13 Carbazole	167	4.738	4.738	(1.039)	1091227	20.0000	20.1348
15 Fluoranthene	202	5.438	5.438	(1.192)	1286350	20.0000	20.1741
16 Pyrene	202	5.604	5.604	(0.851)	1367080	20.0000	19.8317
17 Benzo(a)anthracene	228	6.565	6.565	(0.998)	1149947	20.0000	19.4881
19 Chrysene	228	6.597	6.597	(1.002)	1097962	20.0000	18.3408(M)
20 Benzo(b)fluoranthene	252	7.388	7.388	(0.964)	1243307	20.0000	21.9898
21 Benzo(k)fluoranthene	252	7.409	7.409	(0.967)	1166129	20.0000	17.9385
22 Benzo(a)pyrene	252	7.612	7.612	(0.993)	1187145	20.0000	21.7561
24 Indeno(1,2,3-cd)pyrene	276	8.430	8.430	(1.100)	1156108	20.0000	20.3300
25 Dibenzo(a,h)anthracene	278	8.457	8.457	(1.103)	1028761	20.0000	20.8187
26 Benzo(g,h,i)perylene	276	8.654	8.654	(1.129)	1185137	20.0000	19.9387

QC Flag Legend

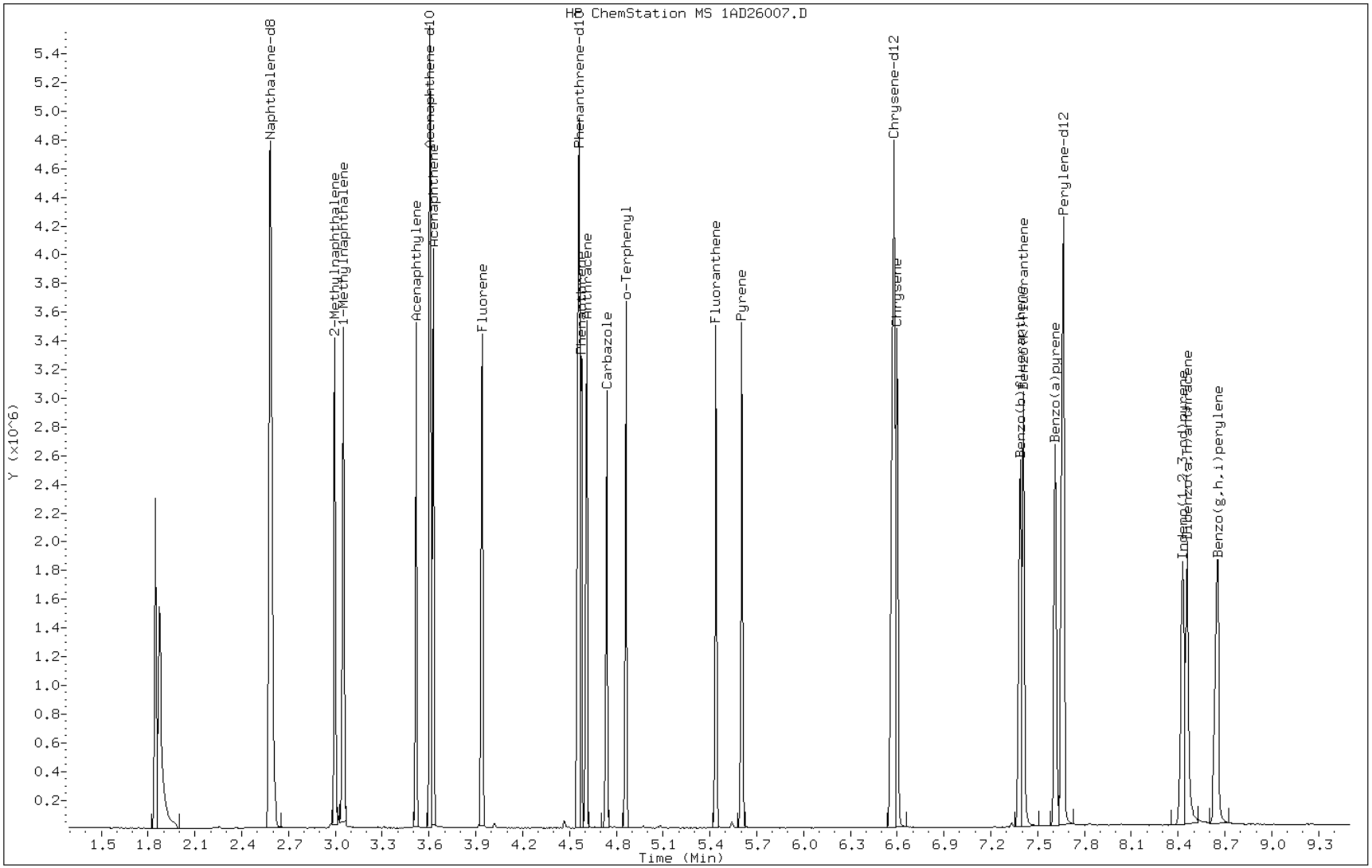
M - Compound response manually integrated.

Data File: 1AD26007.D

Date: 26-APR-2013 11:03

Client ID: Instrument: BSMA5973.i

Sample Info: ICIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1AD26007.D
Inj. Date and Time: 26-APR-2013 11:03
Instrument ID: BSMA5973.i
Client ID:
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 04/26/2013

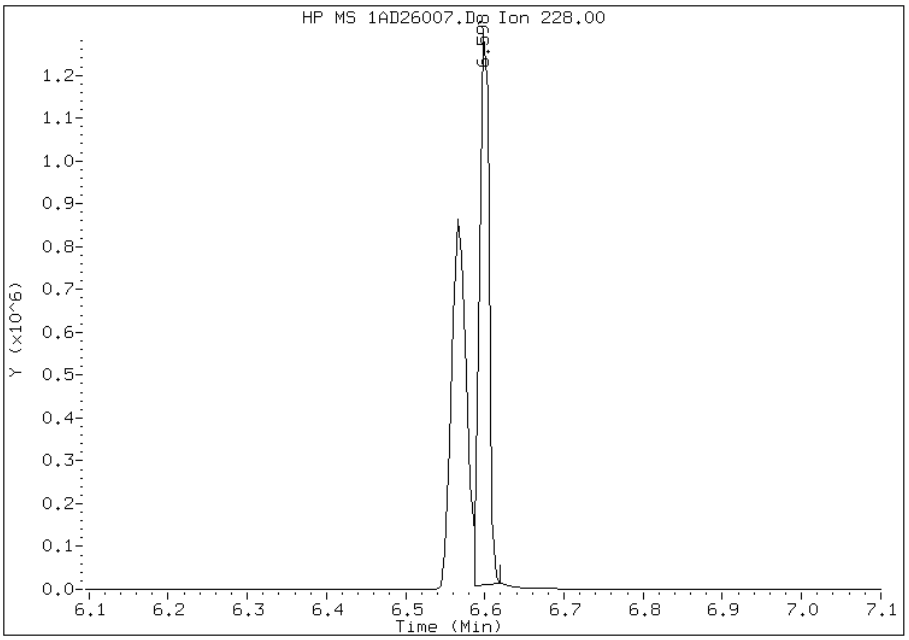
Processing Integration Results

RT: 6.60

Response: 1056771

Amount: 17

Conc: 17



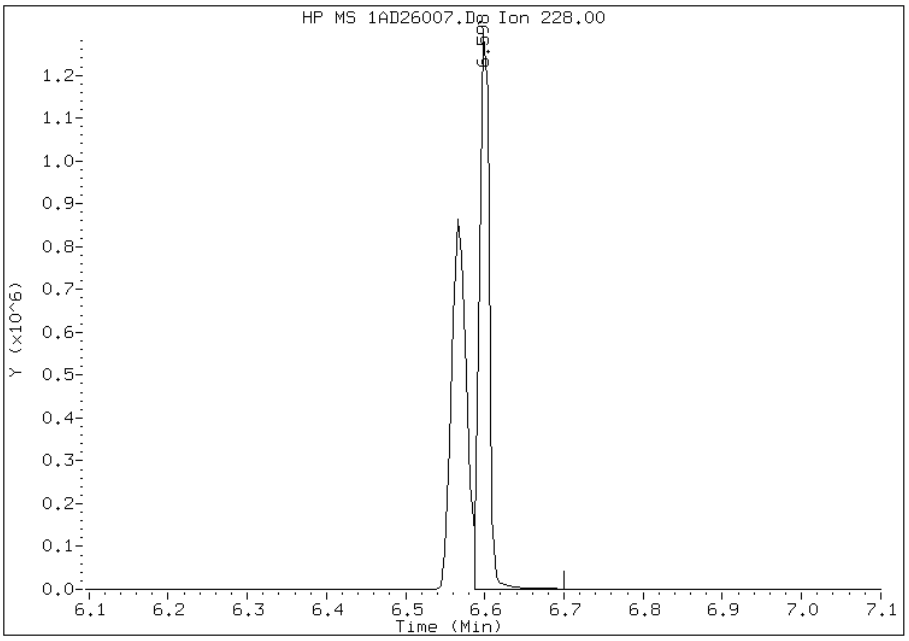
Manual Integration Results

RT: 6.60

Response: 1097962

Amount: 18

Conc: 18



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:58
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26008.D
Lab Smp Id: IC-1531402
Inj Date : 26-APR-2013 11:19
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531402
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 26-APR-2013 11:03 Cal File: 1AD26007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	2.578	2.580	(1.000)	2081137	40.0000	
* 6 Acenaphthene-d10	164	3.609	3.606	(1.000)	971255	40.0000	
* 10 Phenanthrene-d10	188	4.560	4.562	(1.000)	1708155	40.0000	
$ 14 o-Terphenyl	230	4.864	4.861	(1.067)	747046	30.0000	30.2447
* 18 Chrysene-d12	240	6.584	6.581	(1.000)	1549882	40.0000	
* 23 Perylene-d12	264	7.663	7.666	(1.000)	1665910	40.0000	
2 Naphthalene	128	2.594	2.591	(1.006)	1510520	30.0000	30.4015
3 2-Methylnaphthalene	141	2.994	2.997	(1.162)	827941	30.0000	30.0747
4 1-Methylnaphthalene	142	3.053	3.050	(1.184)	894050	30.0000	30.3598
5 Acenaphthylene	152	3.518	3.520	(0.975)	1556064	30.0000	30.6998
7 Acenaphthene	154	3.625	3.627	(1.004)	810394	30.0000	31.5304
9 Fluorene	166	3.940	3.942	(1.092)	1002855	30.0000	30.9795
11 Phenanthrene	178	4.576	4.578	(1.004)	1299367	30.0000	29.9559
12 Anthracene	178	4.613	4.610	(1.012)	1371502	30.0000	30.1453
13 Carbazole	167	4.741	4.738	(1.040)	1364561	30.0000	29.7567
15 Fluoranthene	202	5.441	5.438	(1.193)	1591115	30.0000	29.6375
16 Pyrene	202	5.607	5.604	(0.852)	1716784	30.0000	29.0345
17 Benzo(a)anthracene	228	6.568	6.565	(0.998)	1427778	30.0000	28.2088
19 Chrysene	228	6.600	6.597	(1.002)	1401601	30.0000	27.2953(M)
20 Benzo(b)fluoranthene	252	7.391	7.388	(0.964)	1402018	30.0000	27.7209
21 Benzo(k)fluoranthene	252	7.412	7.409	(0.967)	1618107	30.0000	27.8265
22 Benzo(a)pyrene	252	7.615	7.612	(0.994)	1470103	30.0000	30.4849
24 Indeno(1,2,3-cd)pyrene	276	8.427	8.430	(1.100)	1470861	30.0000	28.8179
25 Dibenzo(a,h)anthracene	278	8.459	8.457	(1.104)	1321140	30.0000	29.8882
26 Benzo(g,h,i)perylene	276	8.652	8.654	(1.129)	1524482	30.0000	28.6723

QC Flag Legend

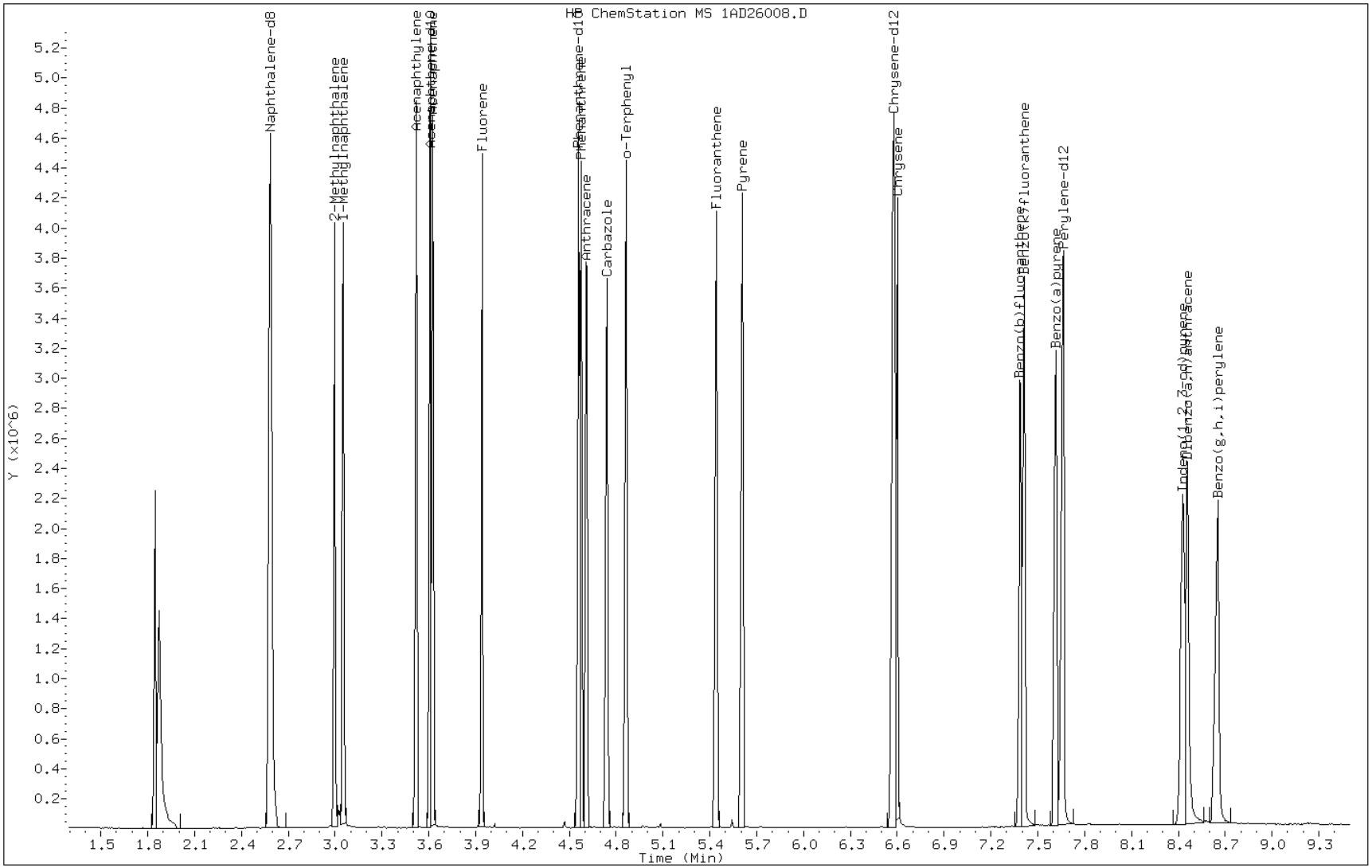
M - Compound response manually integrated.

Data File: 1AD26008.D

Date: 26-APR-2013 11:19

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531402 Operator: SCC



Manual Integration Report

Data File: 1AD26008.D
Inj. Date and Time: 26-APR-2013 11:19
Instrument ID: BSMA5973.i
Client ID:
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 04/26/2013

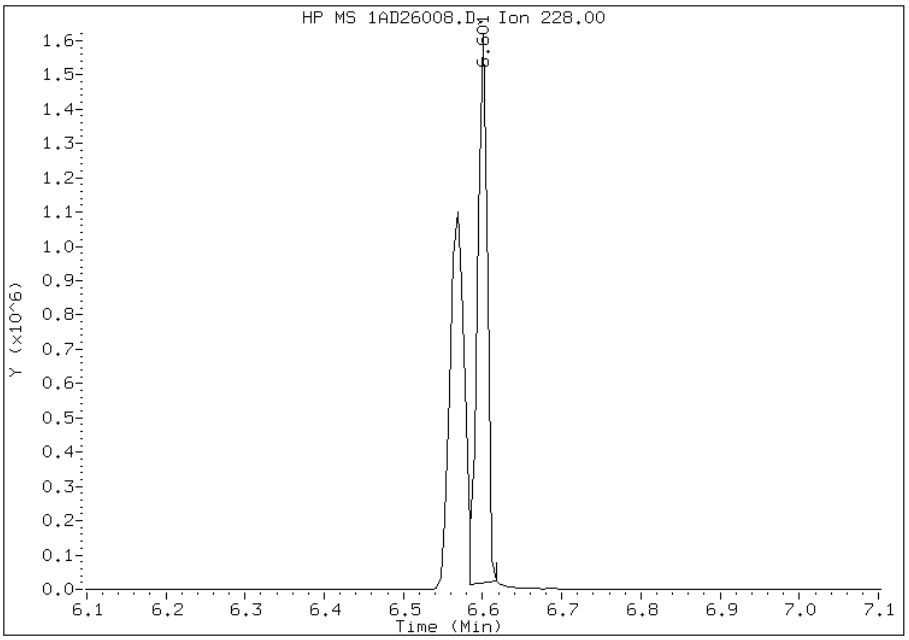
Processing Integration Results

RT: 6.60

Response: 1330257

Amount: 26

Conc: 26



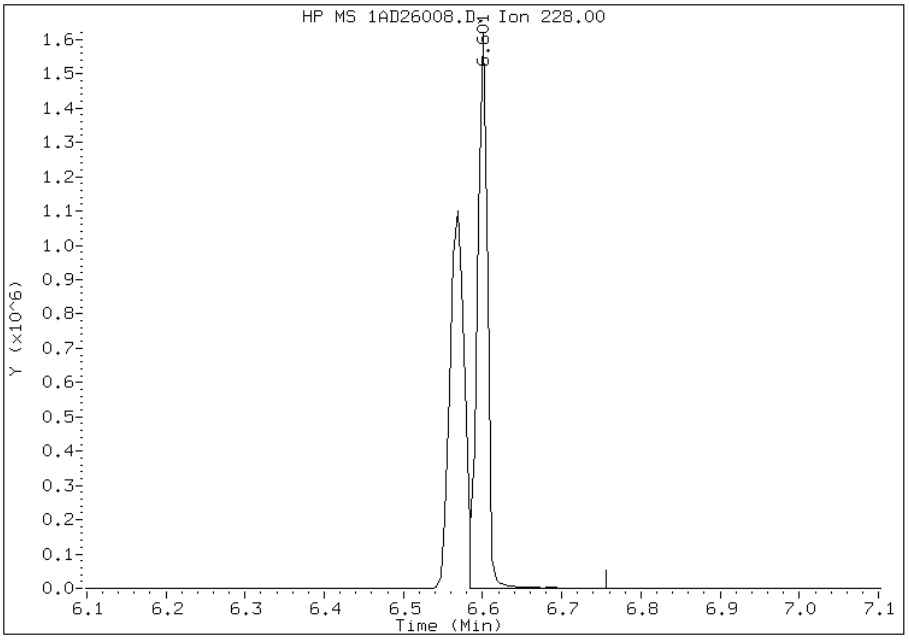
Manual Integration Results

RT: 6.60

Response: 1401601

Amount: 27

Conc: 27



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:56
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26009.D
Lab Smp Id: IC-1531403
Inj Date : 26-APR-2013 11:34
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531403
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 26-APR-2013 11:19 Cal File: 1AD26008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	2.581	2.580	(1.000)	2198265	40.0000	
* 6 Acenaphthene-d10	164	3.607	3.606	(1.000)	1085200	40.0000	
* 10 Phenanthrene-d10	188	4.563	4.562	(1.000)	1842852	40.0000	
$ 14 o-Terphenyl	230	4.868	4.861	(1.067)	1190919	50.0000	49.9310
* 18 Chrysene-d12	240	6.588	6.581	(1.000)	1568229	40.0000	
* 23 Perylene-d12	264	7.667	7.666	(1.000)	1740423	40.0000	
2 Naphthalene	128	2.592	2.591	(1.004)	2445644	50.0000	49.8939
3 2-Methylnaphthalene	141	2.998	2.997	(1.161)	1310841	50.0000	49.9542
4 1-Methylnaphthalene	142	3.057	3.050	(1.184)	1398370	50.0000	49.9099
5 Acenaphthylene	152	3.521	3.520	(0.976)	2504346	50.0000	49.7738
7 Acenaphthene	154	3.628	3.627	(1.006)	1267057	50.0000	49.4576
9 Fluorene	166	3.943	3.942	(1.093)	1599840	50.0000	49.6541
11 Phenanthrene	178	4.579	4.578	(1.004)	2139281	50.0000	50.0234(A)
12 Anthracene	178	4.617	4.610	(1.012)	2186210	50.0000	49.9541
13 Carbazole	167	4.745	4.738	(1.040)	2311786	50.0000	50.0703(A)
15 Fluoranthene	202	5.450	5.438	(1.194)	2681447	50.0000	50.1042(A)
16 Pyrene	202	5.616	5.604	(0.852)	2760027	50.0000	46.1318
17 Benzo(a)anthracene	228	6.572	6.565	(0.998)	2561817	50.0000	50.0220(A)
19 Chrysene	228	6.609	6.597	(1.003)	2209729	50.0000	42.5296(M)
20 Benzo(b)fluoranthene	252	7.394	7.388	(0.964)	2501570	50.0000	47.3439
21 Benzo(k)fluoranthene	252	7.421	7.409	(0.968)	2519945	50.0000	41.4801(M)
22 Benzo(a)pyrene	252	7.624	7.612	(0.994)	2426657	50.0000	48.7188
24 Indeno(1,2,3-cd)pyrene	276	8.442	8.430	(1.101)	2703546	50.0000	50.5272(A)
25 Dibenzo(a,h)anthracene	278	8.474	8.457	(1.105)	2207196	50.0000	47.7957
26 Benzo(g,h,i)perylene	276	8.671	8.654	(1.131)	2645132	50.0000	47.6194

QC Flag Legend

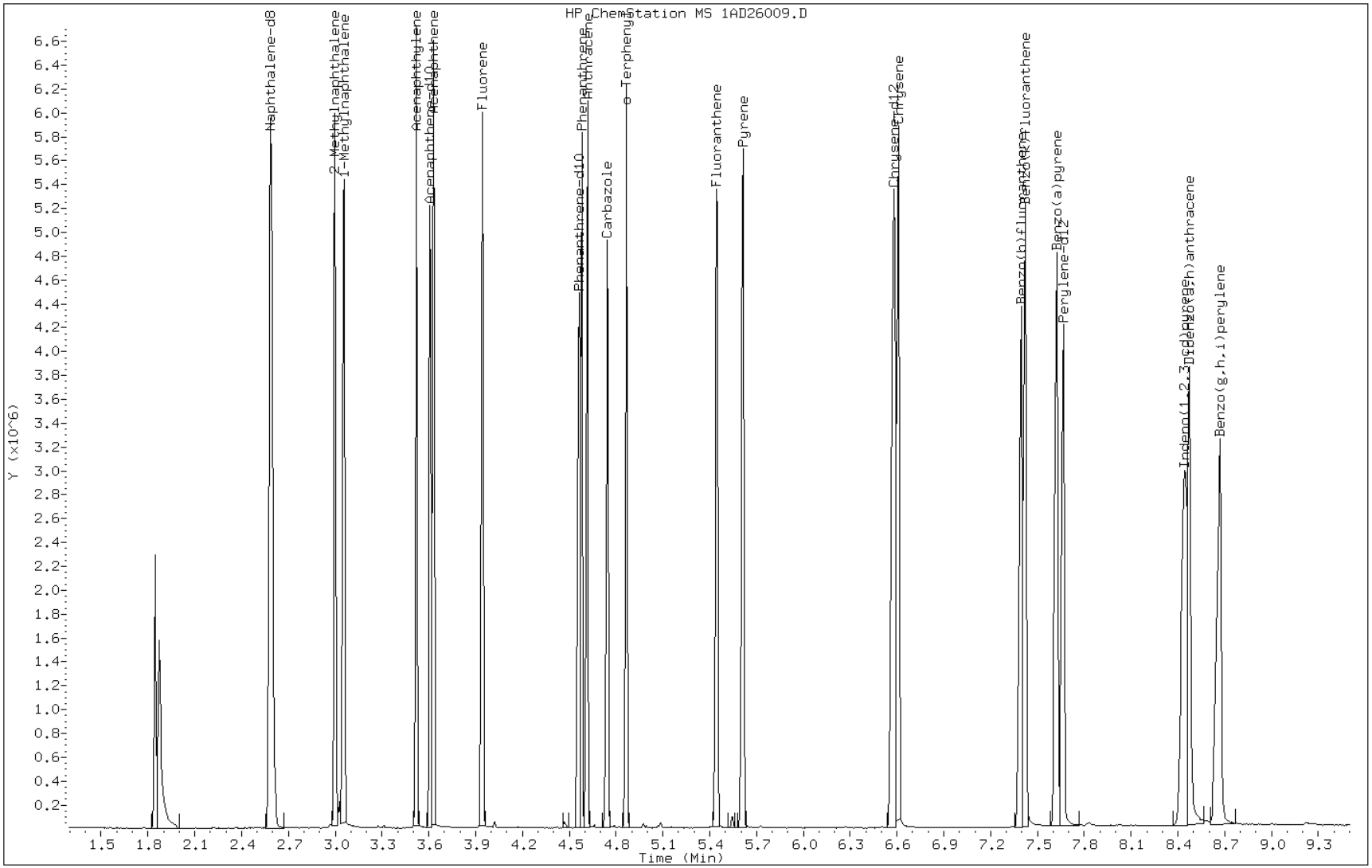
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1AD26009.D

Date: 26-APR-2013 11:34

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531403 Operator: SCC



Manual Integration Report

Data File: 1AD26009.D
Inj. Date and Time: 26-APR-2013 11:34
Instrument ID: BSMA5973.i
Client ID:
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 04/26/2013

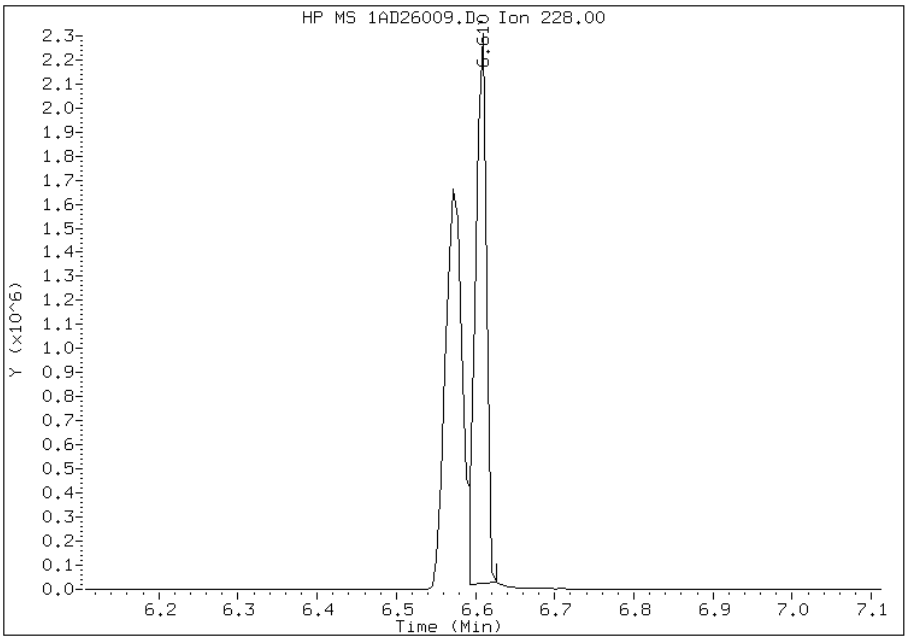
Processing Integration Results

RT: 6.61

Response: 2123056

Amount: 42

Conc: 42



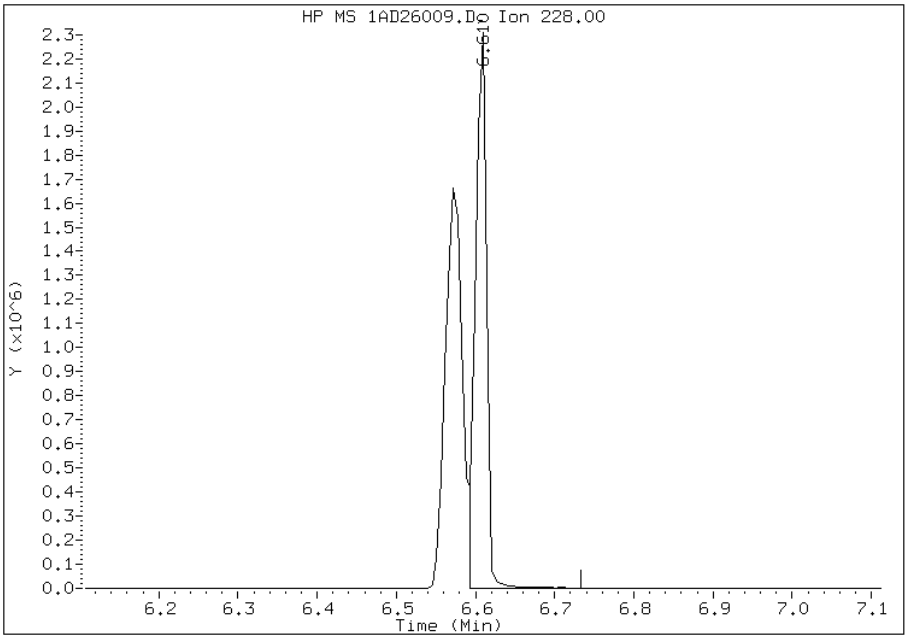
Manual Integration Results

RT: 6.61

Response: 2209729

Amount: 43

Conc: 43



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD26009.D
Inj. Date and Time: 26-APR-2013 11:34
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/26/2013

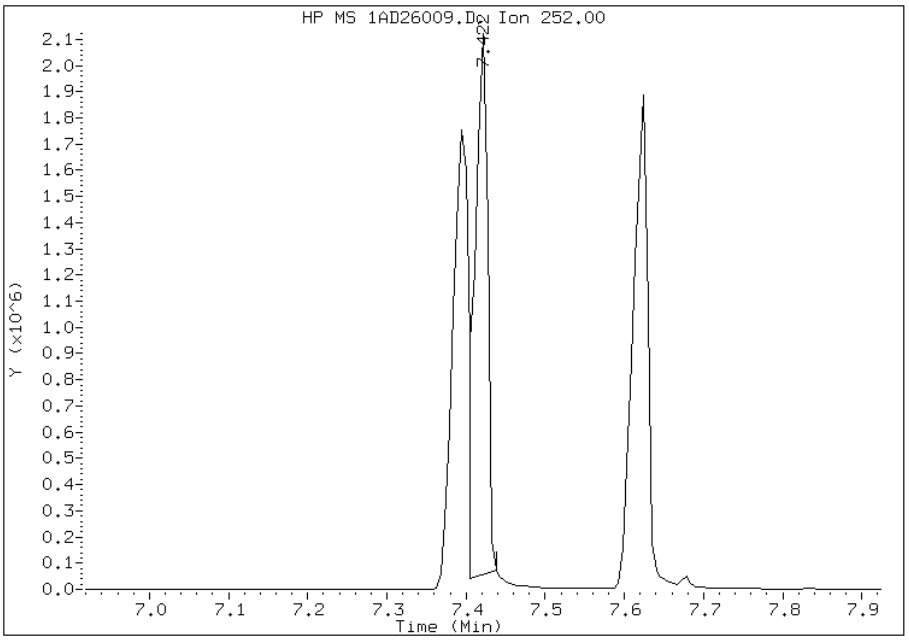
Processing Integration Results

RT: 7.42

Response: 2323626

Amount: 39

Conc: 39



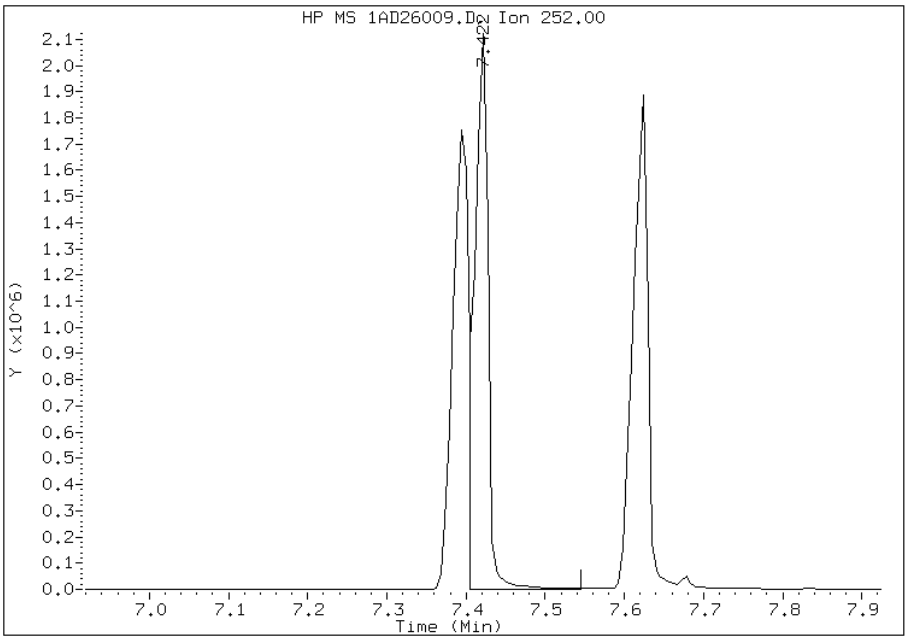
Manual Integration Results

RT: 7.42

Response: 2519945

Amount: 41

Conc: 41



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:55
Manual Integration Reason: Baseline Event

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

Lab Name: TestAmerica Tampa Job No.: 680-89791-2 Analy Batch No.: 137156

SDG No.: 68089791-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2013 10:40 Calibration End Date: 05/06/2013 11:56 Calibration ID: 2952

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137156/4	1AE06004.D
Level 2	IC 660-137156/5	1AE06005.D
Level 3	IC 660-137156/6	1AE06006.D
Level 4	IC 660-137156/7	1AE06007.D
Level 5	IC 660-137156/8	1AE06008.D
Level 6	IC 660-137156/9	1AE06009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.8667 0.9221	0.9548	0.9617	0.9647	0.9728	Ave		0.9420			0.0000	3.9		15.0			
2-Methylnaphthalene	0.4226 0.4918	0.4759	0.5039	0.4820	0.4877	Ave		0.4787			0.0000	5.5		15.0			
1-Methylnaphthalene	0.6029 0.5086	0.6310	0.5706	0.5768	0.5700	Ave		0.5738			0.0000	6.6		15.0			
Acenaphthylene	1.6019 1.8391	1.9272	1.9958	1.9528	1.8687	Ave		1.8796			0.0000	7.2		15.0			
Acenaphthene	1.2630 0.9794	1.1191	1.1012	1.0911	0.9775	Ave		1.0794			0.0000	9.2		15.0			
Fluorene	1.2150 1.1688	1.1543	1.2909	1.2296	1.2768	Ave		1.2301			0.0000	4.4		15.0			
Phenanthrene	1.0511 0.9551	0.9723	1.0218	0.9788	0.9545	Ave		0.9910			0.0000	3.6		15.0			
Anthracene	0.9704 1.0683	1.0287	1.1022	1.0731	1.0444	Ave		1.0556			0.0000	4.4		15.0			
Carbazole	0.8515 0.9411	0.9482	1.0434	0.9702	0.9294	Ave		0.9491			0.0000	6.0		15.0			
Fluoranthene	1.0295 1.1667	1.1345	1.1703	1.1455	1.1572	Ave		1.1400			0.0000	4.5		15.0			
Pyrene	1.1087 1.3212	1.2815	1.3443	1.3220	1.3081	Ave		1.2858			0.0000	6.2		15.0			
Benzo[a]anthracene	1.3182 1.1492	1.1011	1.0943	1.0418	1.0896	Ave		1.1242			0.0000	8.1		15.0			
Chrysene	1.3983 1.1822	1.3391	1.2785	1.2693	1.1997	Ave		1.2649			0.0000	6.5		15.0			
Benzo[b]fluoranthene	0.9460 1.2055	0.9352	1.0620	0.9896	1.1918	Ave		1.0573			0.0000	10.4		15.0			
Benzo[k]fluoranthene	1.2427 1.2284	1.3188	1.3819	1.4106	1.2886	Ave		1.3116			0.0000	5.1		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-89791-2 Analy Batch No.: 137156

SDG No.: 68089791-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 05/06/2013 10:40 Calibration End Date: 05/06/2013 11:56 Calibration ID: 2952

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[a]pyrene	1.0150 1.1371	0.9655	1.0919	1.1043	1.1614	Ave		1.0858			0.0000	6.5		15.0			
Indeno[1,2,3-cd]pyrene	0.8009 1.0467	0.7678	0.8798	0.9074	0.9847	Ave		0.9096			0.0000	11.2		15.0			
Dibenz(a,h)anthracene	0.8250 0.9774	0.9059	0.9919	0.9399	0.9663	Ave		0.9324			0.0000	6.1		15.0			
Benzo[g,h,i]perylene	0.9050 1.0138	0.9652	1.0307	0.9710	1.0040	Ave		0.9782			0.0000	4.3		15.0			
o-Terphenyl	0.5850 0.5366	0.5762	0.6000	0.5836	0.5515	Ave		0.5725			0.0000	3.8		15.0			

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

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-89791-2 Analy B

SDG No.: 68089791-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated

Calibration Start Date: 05/06/2013 10:40 Calibration End Date: 05/06/2013 11:56 Calibra

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137156/4	1AE06004.D
Level 2	IC 660-137156/5	1AE06005.D
Level 3	IC 660-137156/6	1AE06006.D
Level 4	IC 660-137156/7	1AE06007.D
Level 5	IC 660-137156/8	1AE06008.D
Level 6	IC 660-137156/9	1AE06009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CO	
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2
Naphthalene	NPT	Ave	5529 1397244	28538	156392	301663	837016	0.200 50.0	1.
2-Methylnaphthalene	NPT	Ave	2696 745285	14225	81952	150716	419604	0.200 50.0	1.
1-Methylnaphthalene	NPT	Ave	3846 770690	18860	92797	180349	490403	0.200 50.0	1.
Acenaphthylene	ANT	Ave	5213 1396662	29650	156651	305312	801835	0.200 50.0	1.
Acenaphthene	ANT	Ave	4110 743745	17218	86437	170588	419418	0.200 50.0	1.
Fluorene	ANT	Ave	3954 887590	17759	101320	192234	547833	0.200 50.0	1.
Phenanthrene	PHN	Ave	5800 1241024	25196	136267	258887	711095	0.200 50.0	1.
Anthracene	PHN	Ave	5355 1388133	26659	146994	283812	778079	0.200 50.0	1.
Carbazole	PHN	Ave	4699 1222783	24572	139150	256614	692413	0.200 50.0	1.
Fluoranthene	PHN	Ave	5681 1515990	29400	156066	302969	862141	0.200 50.0	1.
Pyrene	CRY	Ave	5812 1521255	30866	169550	327292	882847	0.200 50.0	1.
Benzo[a]anthracene	CRY	Ave	6910 1323236	26522	138014	257936	735367	0.200 50.0	1.
Chrysene	CRY	Ave	7330 1361261	32255	161246	314241	809687	0.200 50.0	1.
Benzo[b]fluoranthene	PRY	Ave	4707 1327571	21937	126343	236568	752076	0.200 50.0	1.
Benzo[k]fluoranthene	PRY	Ave	6183 1352818	30936	164403	337219	813163	0.200 50.0	1.
Benzo[a]pyrene	PRY	Ave	5050 1252292	22648	129901	263990	732885	0.200 50.0	1.
Indeno[1,2,3-cd]pyrene	PRY	Ave	3985 1152680	18010	104666	216924	621385	0.200 50.0	1.
Dibenz(a,h)anthracene	PRY	Ave	4105 1076428	21249	118003	224688	609787	0.200 50.0	1.
Benzo[g,h,i]perylene	PRY	Ave	4503 1116517	22641	122623	232133	633546	0.200 50.0	1.
o-Terphenyl	PHN	Ave	3228 697232	14933	80011	154345	410873	0.200 50.0	1.

Curve Type Legend:
Ave = Average ISTD

137156

N

2952

	LVL 3	LVL 4	LVL 5
	5.00	10.0	30.0
	5.00	10.0	30.0
	5.00	10.0	30.0
	5.00	10.0	30.0
	5.00	10.0	30.0
	5.00	10.0	30.0
	5.00	10.0	30.0
	5.00	10.0	30.0
	5.00	10.0	30.0
	5.00	10.0	30.0
	5.00	10.0	30.0
	5.00	10.0	30.0
	5.00	10.0	30.0
	5.00	10.0	30.0
	5.00	10.0	30.0
	5.00	10.0	30.0
	5.00	10.0	30.0
	5.00	10.0	30.0
	5.00	10.0	30.0
	5.00	10.0	30.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06004.D
Lab Smp Id: IC-1531396
Inj Date : 06-MAY-2013 10:40
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531396
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 06-MAY-2013 10:24 Cal File: 1AE06003.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.545	2.544	(1.000)	1275912	40.0000	
*	6 Acenaphthene-d10	164	3.571	3.575	(1.000)	650840	40.0000	
*	10 Phenanthrene-d10	188	4.517	4.520	(1.000)	1103640	40.0000	
$	14 o-Terphenyl	230	4.816	4.819	(1.066)	3228	0.20000	0.2043
*	18 Chrysene-d12	240	6.531	6.534	(1.000)	1048388	40.0000	
*	23 Perylene-d12	264	7.615	7.629	(1.000)	995106	40.0000	
	2 Naphthalene	128	2.556	2.554	(1.004)	5529	0.20000	0.1840(Q)
	3 2-Methylnaphthalene	141	2.962	2.960	(1.164)	2696	0.20000	0.1765
	4 1-Methylnaphthalene	142	3.015	3.014	(1.185)	3846	0.20000	0.2101
	5 Acenaphthylene	152	3.480	3.484	(0.975)	5213	0.20000	0.1704
	7 Acenaphthene	154	3.587	3.591	(1.004)	4110	0.20000	0.2340
	9 Fluorene	166	3.902	3.901	(1.093)	3954	0.20000	0.1975(T)
	11 Phenanthrene	178	4.533	4.536	(1.004)	5800	0.20000	0.2121(M)
	12 Anthracene	178	4.565	4.568	(1.011)	5355	0.20000	0.1838
	13 Carbazole	167	4.704	4.702	(1.041)	4699	0.20000	0.1794(T)
	15 Fluoranthene	202	5.393	5.396	(1.194)	5681	0.20000	0.1806(M)
	16 Pyrene	202	5.558	5.562	(0.851)	5812	0.20000	0.1724
	17 Benzo(a)anthracene	228	6.525	6.523	(0.999)	6910	0.20000	0.2345
	19 Chrysene	228	6.547	6.550	(1.002)	7330	0.20000	0.2211
	20 Benzo(b)fluoranthene	252	7.337	7.346	(0.964)	4707	0.20000	0.1789
	21 Benzo(k)fluoranthene	252	7.353	7.368	(0.966)	6183	0.20000	0.1894(M)
	22 Benzo(a)pyrene	252	7.567	7.576	(0.994)	5050	0.20000	0.1869
	24 Indeno(1,2,3-cd)pyrene	276	8.363	8.388	(1.098)	3985	0.20000	0.1760
	25 Dibenzo(a,h)anthracene	278	8.390	8.415	(1.102)	4105	0.20000	0.1769(T)
	26 Benzo(g,h,i)perylene	276	8.577	8.602	(1.126)	4503	0.20000	0.1850(M)

QC Flag Legend

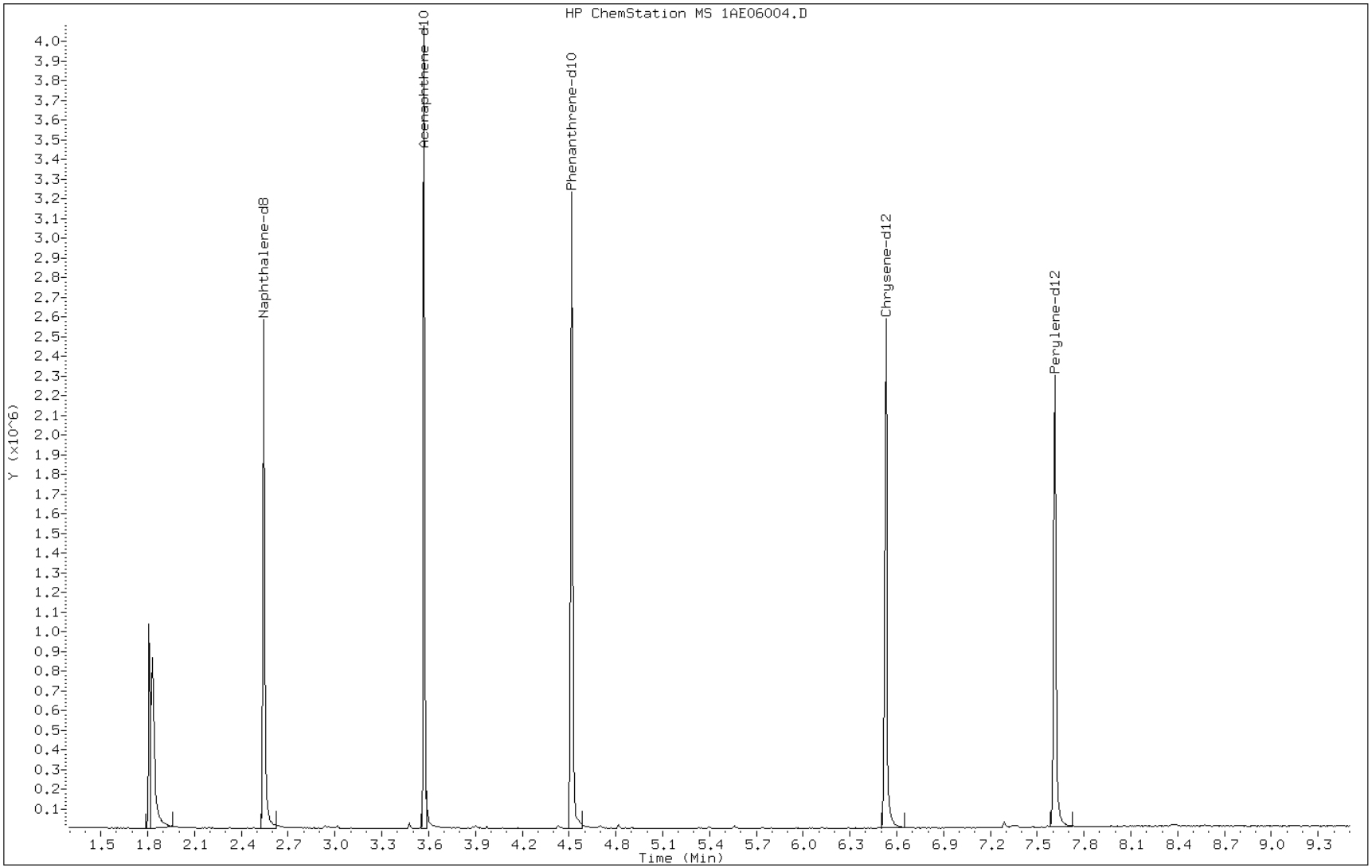
T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE06004.D

Date: 06-MAY-2013 10:40

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531396 Operator: SCC



Manual Integration Report

Data File: 1AE06004.D
Inj. Date and Time: 06-MAY-2013 10:40
Instrument ID: BSMA5973.i
Client ID:
Compound: 11 Phenanthrene
CAS #: 85-01-8
Report Date: 05/06/2013

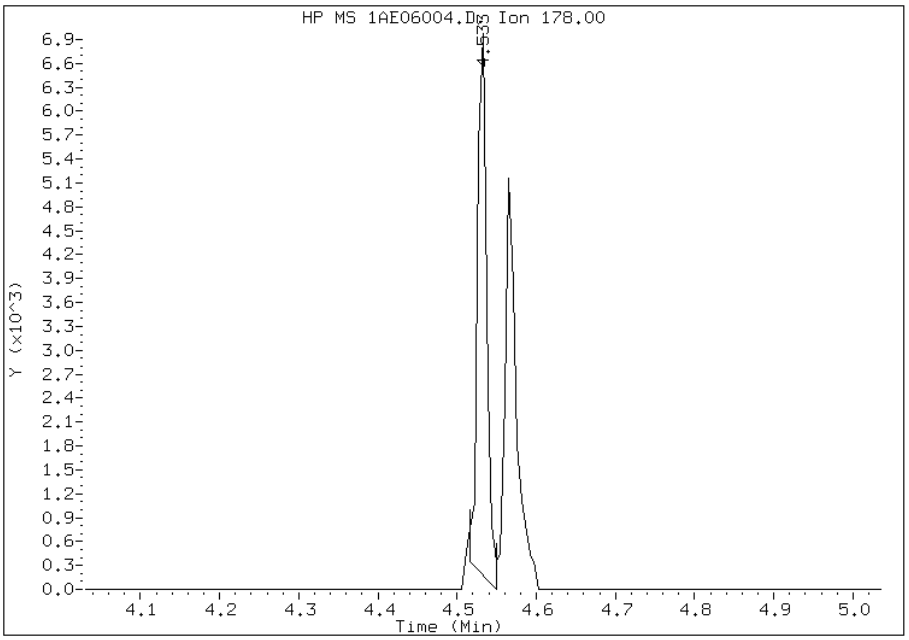
Processing Integration Results

RT: 4.53

Response: 5408

Amount: 0

Conc: 0



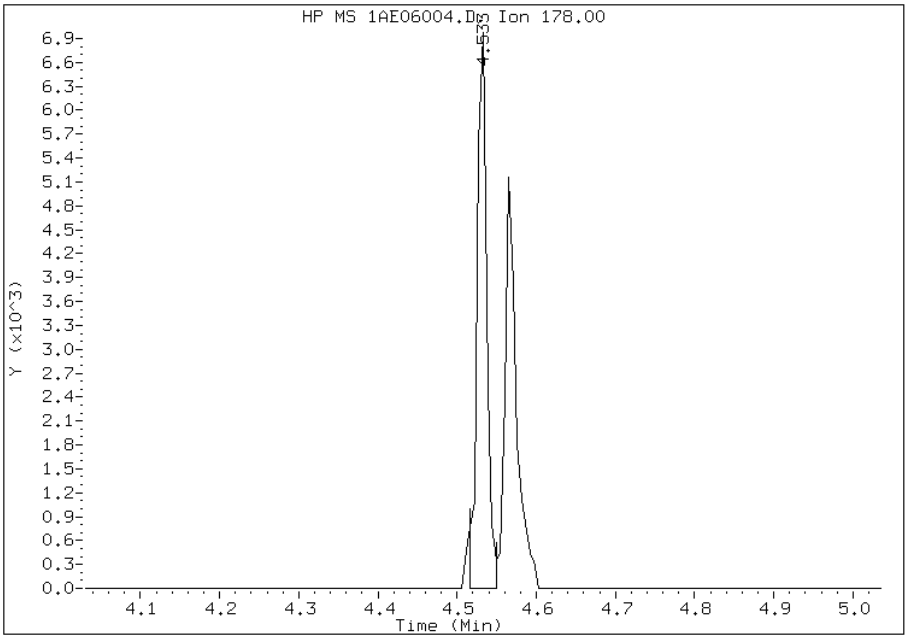
Manual Integration Results

RT: 4.53

Response: 5800

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:53
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06004.D
Inj. Date and Time: 06-MAY-2013 10:40
Instrument ID: BSMA5973.i
Client ID:
Compound: 15 Fluoranthene
CAS #: 206-44-0
Report Date: 05/06/2013

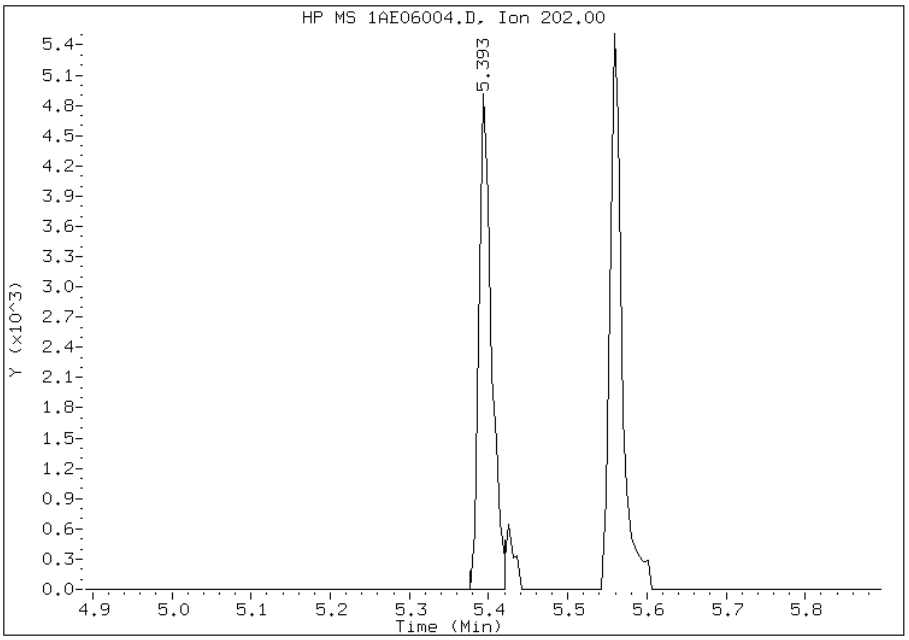
Processing Integration Results

RT: 5.39

Response: 5268

Amount: 0

Conc: 0



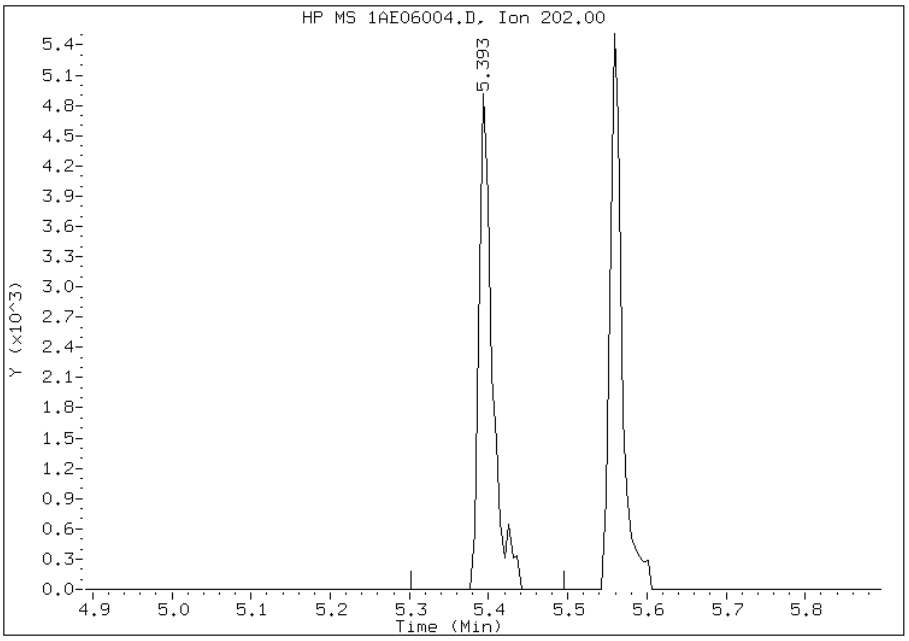
Manual Integration Results

RT: 5.39

Response: 5681

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:53
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06004.D
Inj. Date and Time: 06-MAY-2013 10:40
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/06/2013

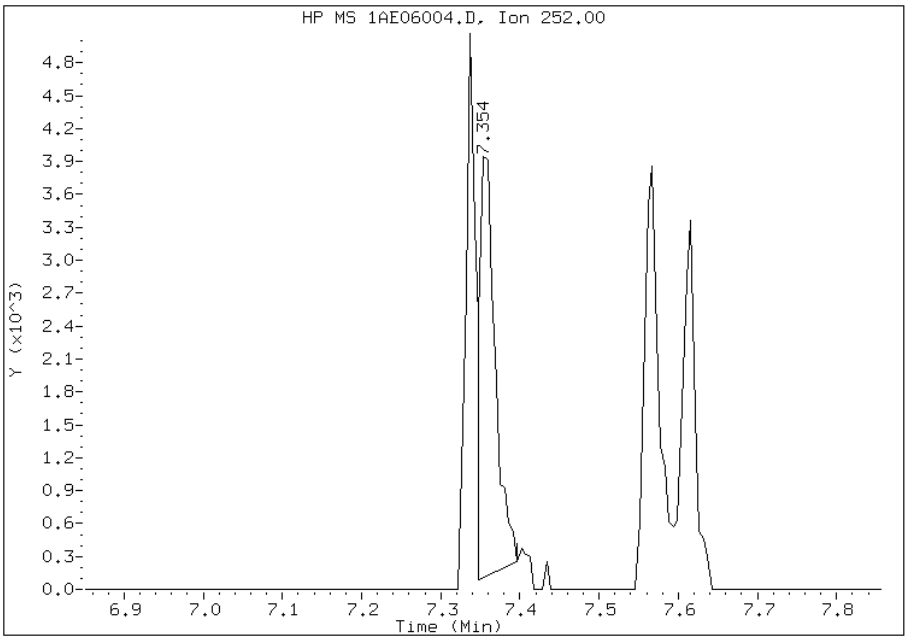
Processing Integration Results

RT: 7.35

Response: 5294

Amount: 0

Conc: 0



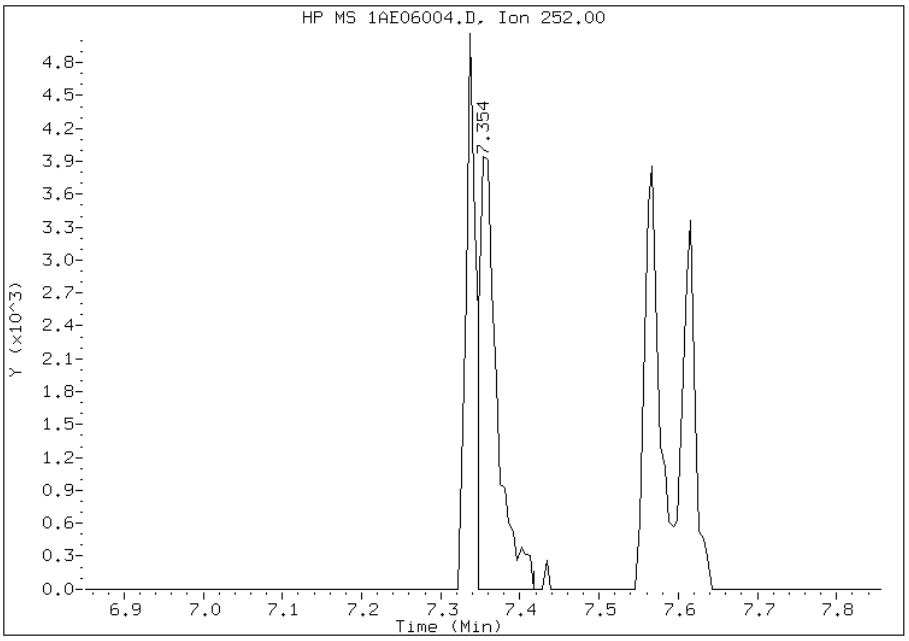
Manual Integration Results

RT: 7.35

Response: 6183

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:54
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06004.D
Inj. Date and Time: 06-MAY-2013 10:40
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/06/2013

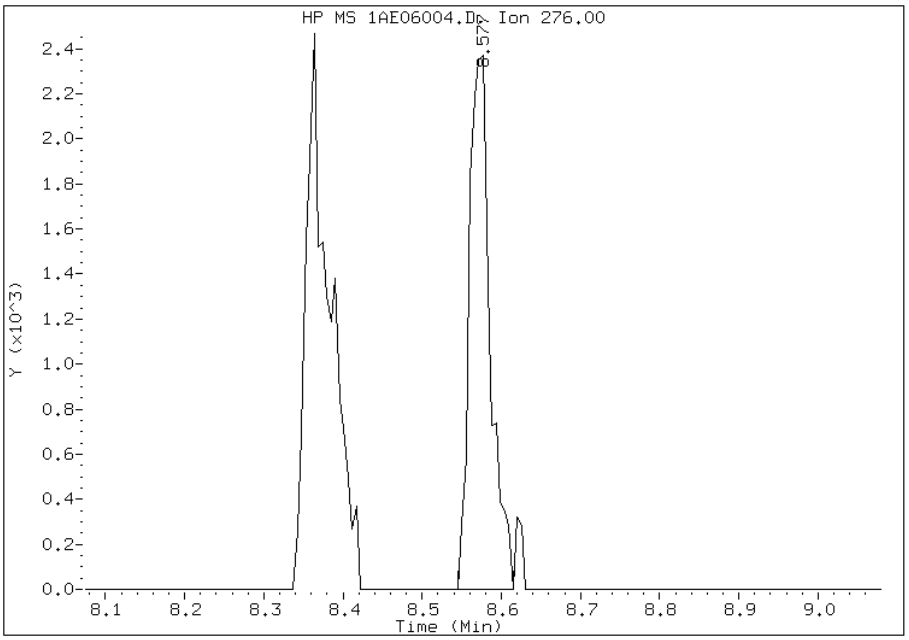
Processing Integration Results

RT: 8.58

Response: 4307

Amount: 0

Conc: 0



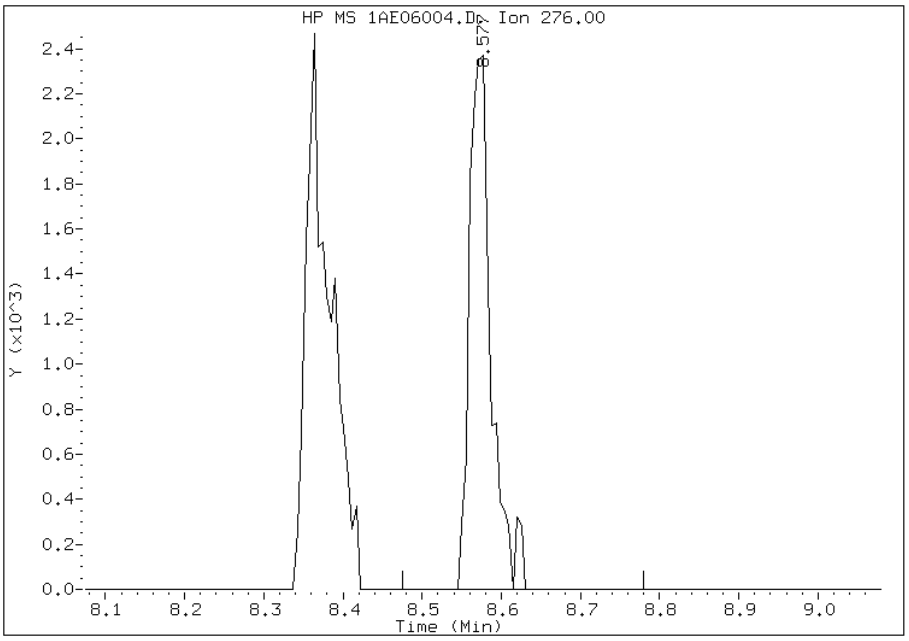
Manual Integration Results

RT: 8.58

Response: 4503

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:54
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06005.D
Lab Smp Id: IC-1531398
Inj Date : 06-MAY-2013 10:56
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531398
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 06-MAY-2013 10:40 Cal File: 1AE06004.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.543	2.544	(1.000)	1195527	40.0000	
*	6 Acenaphthene-d10	164	3.568	3.575	(1.000)	615405	40.0000	
*	10 Phenanthrene-d10	188	4.519	4.520	(1.000)	1036602	40.0000	
$	14 o-Terphenyl	230	4.813	4.819	(1.065)	14933	1.00000	1.0065
*	18 Chrysene-d12	240	6.528	6.534	(1.000)	963465	40.0000	
*	23 Perylene-d12	264	7.612	7.629	(1.000)	938287	40.0000	
	2 Naphthalene	128	2.553	2.554	(1.004)	28538	1.00000	1.0136
	3 2-Methylnaphthalene	141	2.959	2.960	(1.164)	14225	1.00000	0.9941
	4 1-Methylnaphthalene	142	3.013	3.014	(1.185)	18860	1.00000	1.0997
	5 Acenaphthylene	152	3.483	3.484	(0.976)	29650	1.00000	1.0253
	7 Acenaphthene	154	3.584	3.591	(1.004)	17218	1.00000	1.0368
	9 Fluorene	166	3.900	3.901	(1.093)	17759	1.00000	0.9383
	11 Phenanthrene	178	4.530	4.536	(1.002)	25196	1.00000	0.9811
	12 Anthracene	178	4.562	4.568	(1.009)	26659	1.00000	0.9745
	13 Carbazole	167	4.701	4.702	(1.040)	24572	1.00000	0.9990(TM)
	15 Fluoranthene	202	5.395	5.396	(1.194)	29400	1.00000	0.9951
	16 Pyrene	202	5.556	5.562	(0.851)	30866	1.00000	0.9966
	17 Benzo(a)anthracene	228	6.523	6.523	(0.999)	26522	1.00000	0.9794
	19 Chrysene	228	6.544	6.550	(1.002)	32255	1.00000	1.0587(M)
	20 Benzo(b)fluoranthene	252	7.335	7.346	(0.964)	21937	1.00000	0.8845
	21 Benzo(k)fluoranthene	252	7.356	7.368	(0.966)	30936	1.00000	1.0054(M)
	22 Benzo(a)pyrene	252	7.559	7.576	(0.993)	22648	1.00000	0.8892
	24 Indeno(1,2,3-cd)pyrene	276	8.355	8.388	(1.098)	18010	1.00000	0.8440(M)
	25 Dibenzo(a,h)anthracene	278	8.382	8.415	(1.101)	21249	1.00000	0.9715(M)
	26 Benzo(g,h,i)perylene	276	8.563	8.602	(1.125)	22641	1.00000	0.9867(M)

QC Flag Legend

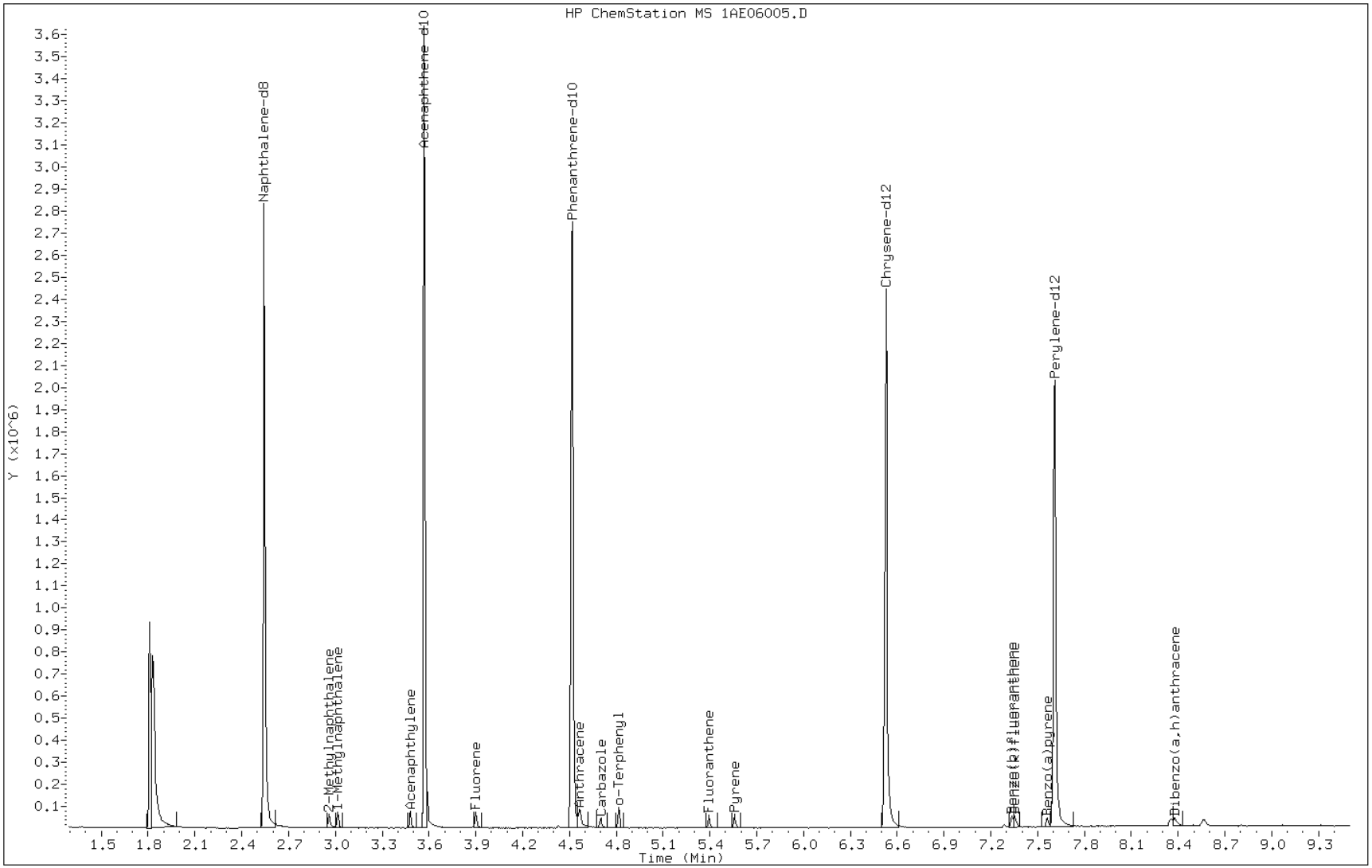
T - Target compound detected outside RT window.
M - Compound response manually integrated.

Data File: 1AE06005.D

Date: 06-MAY-2013 10:56

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531398 Operator: SCC



Manual Integration Report

Data File: 1AE06005.D
Inj. Date and Time: 06-MAY-2013 10:56
Instrument ID: BSMA5973.i
Client ID:
Compound: 13 Carbazole
CAS #: 86-74-8
Report Date: 05/06/2013

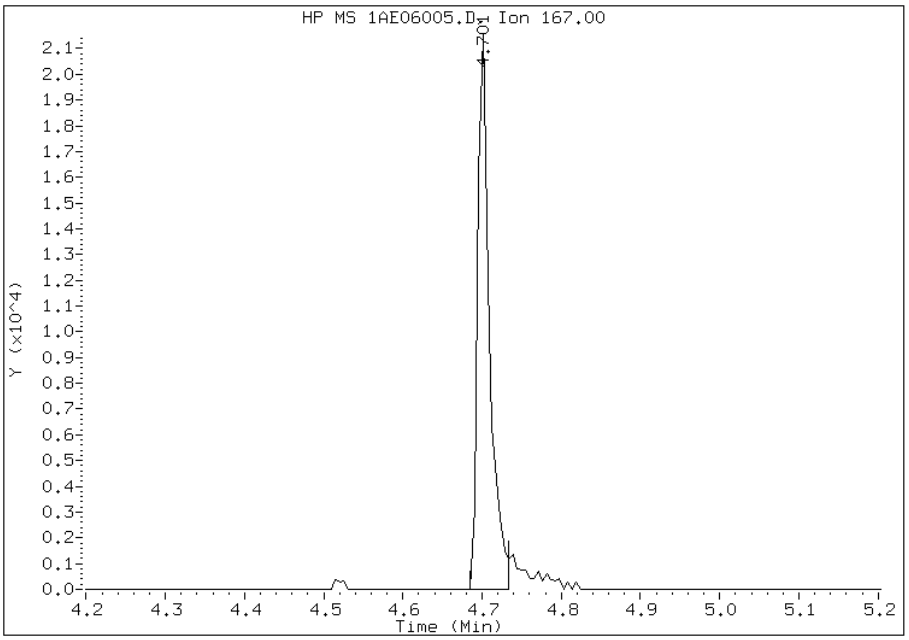
Processing Integration Results

RT: 4.70

Response: 22103

Amount: 1

Conc: 1



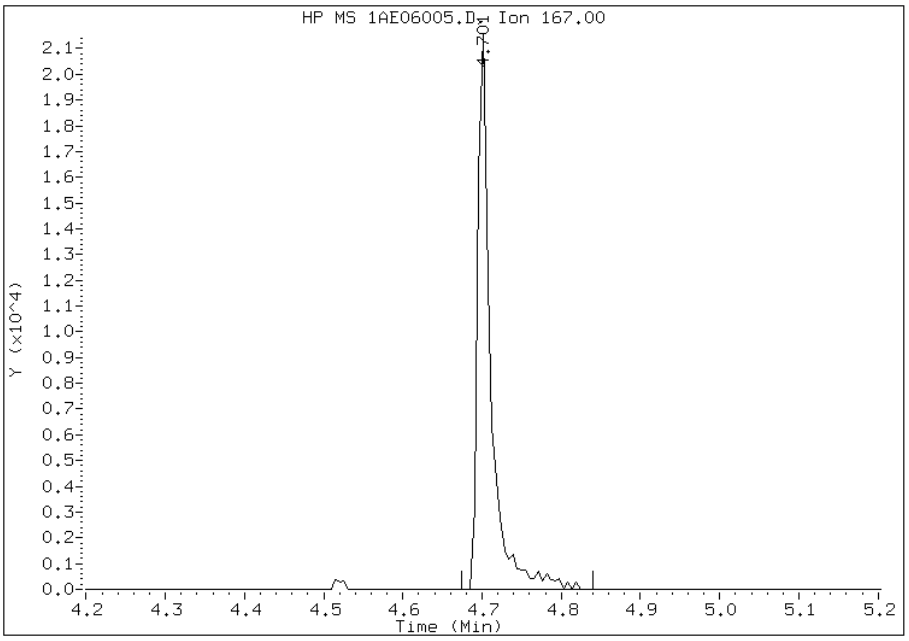
Manual Integration Results

RT: 4.70

Response: 24572

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06005.D
Inj. Date and Time: 06-MAY-2013 10:56
Instrument ID: BSMA5973.i
Client ID:
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 05/06/2013

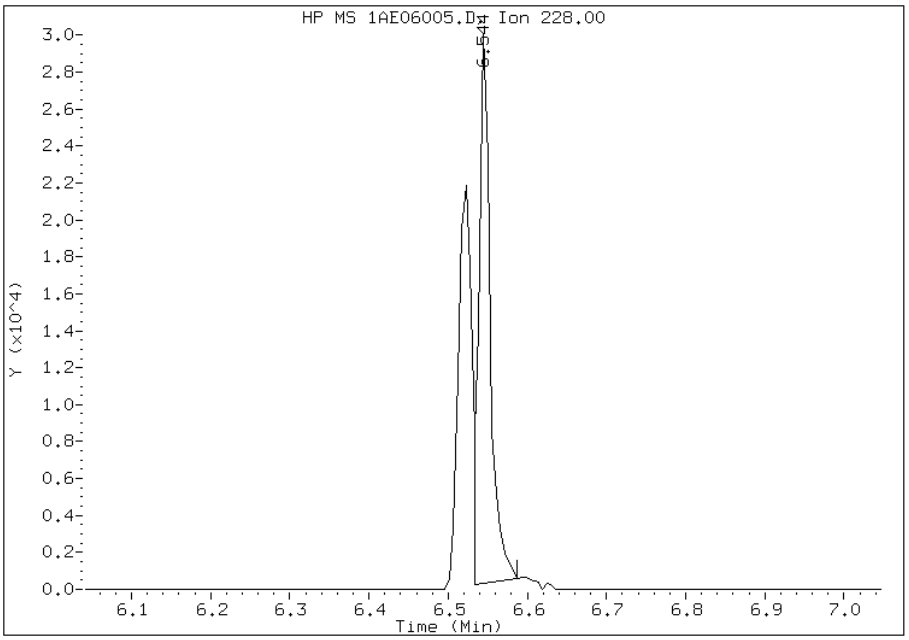
Processing Integration Results

RT: 6.54

Response: 29968

Amount: 1

Conc: 1



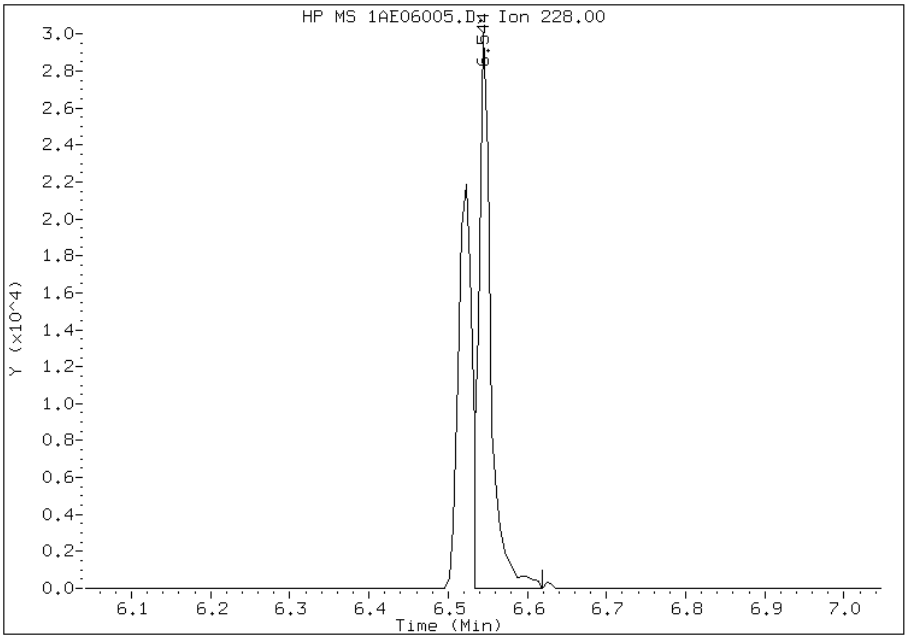
Manual Integration Results

RT: 6.54

Response: 32255

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06005.D
Inj. Date and Time: 06-MAY-2013 10:56
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/06/2013

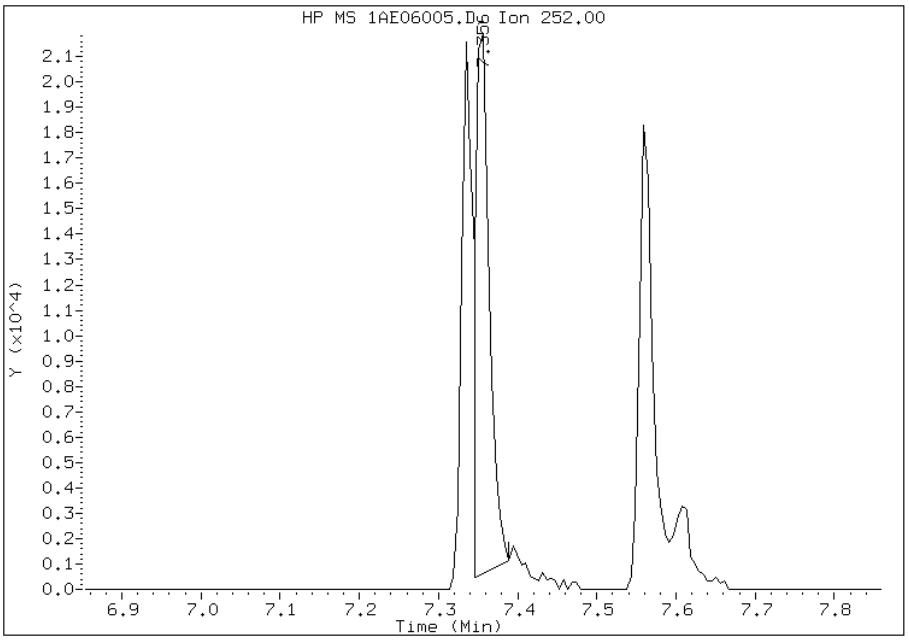
Processing Integration Results

RT: 7.36

Response: 26088

Amount: 1

Conc: 1



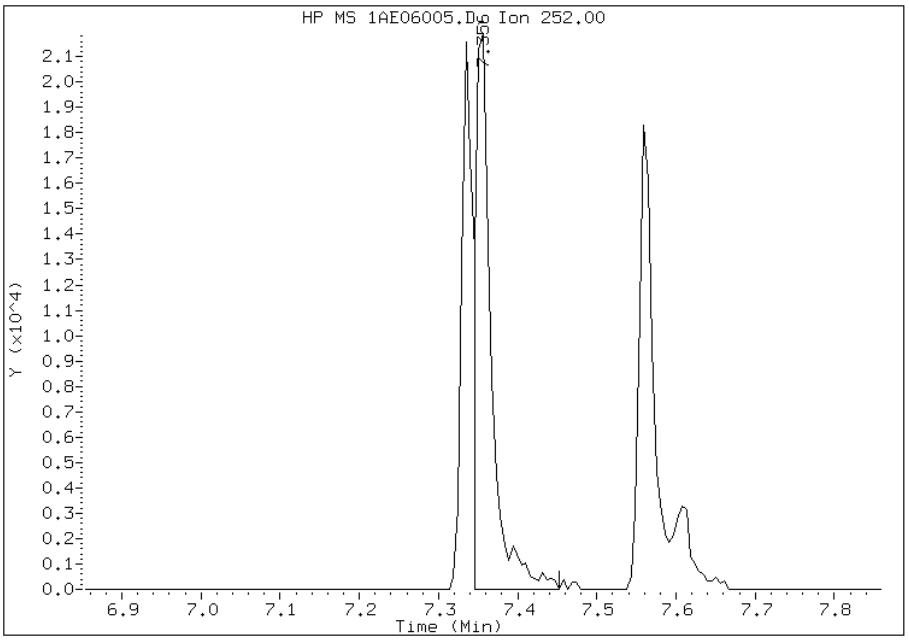
Manual Integration Results

RT: 7.36

Response: 30936

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06005.D
Inj. Date and Time: 06-MAY-2013 10:56
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/06/2013

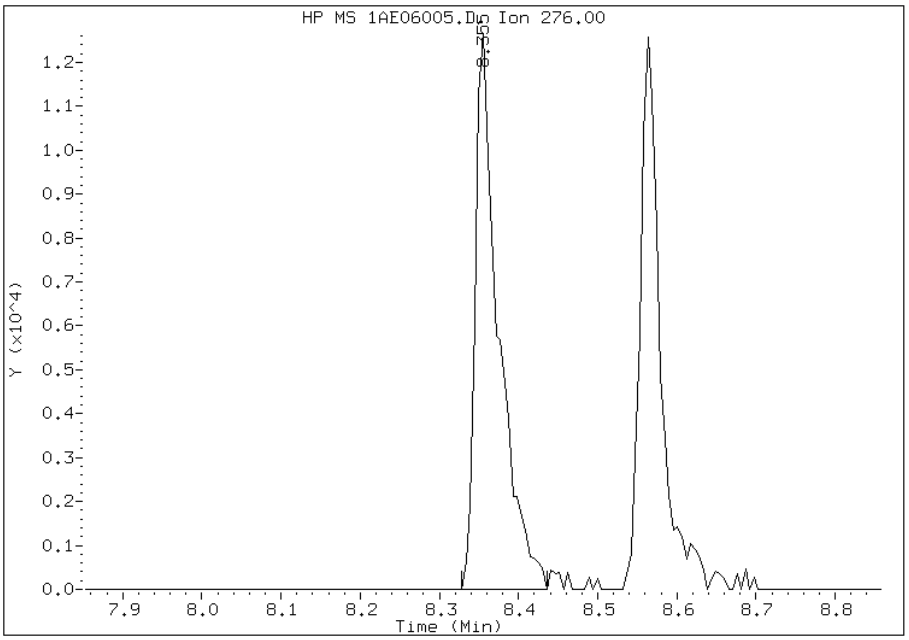
Processing Integration Results

RT: 8.36

Response: 25702

Amount: 1

Conc: 1



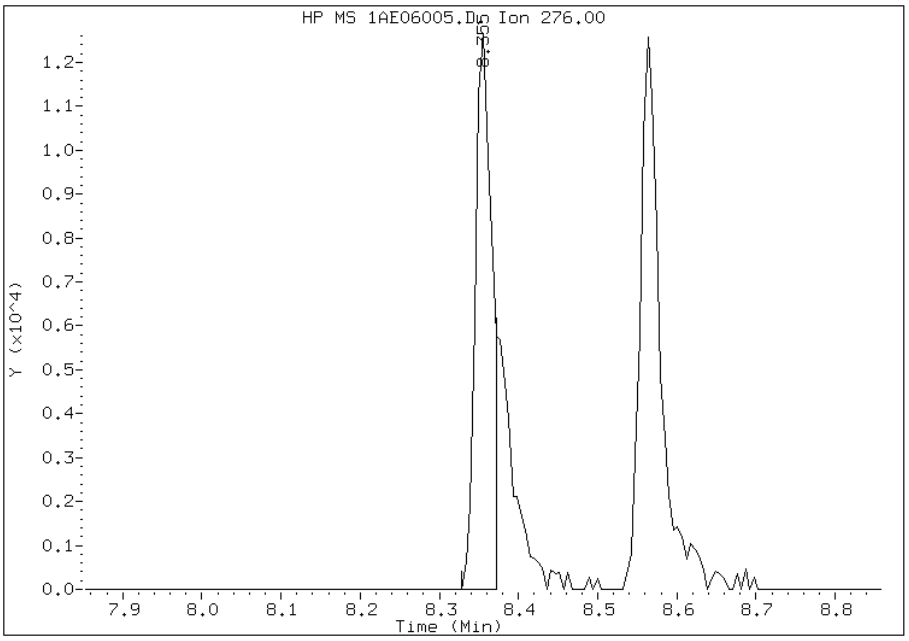
Manual Integration Results

RT: 8.36

Response: 18010

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:56
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE06005.D
Inj. Date and Time: 06-MAY-2013 10:56
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/06/2013

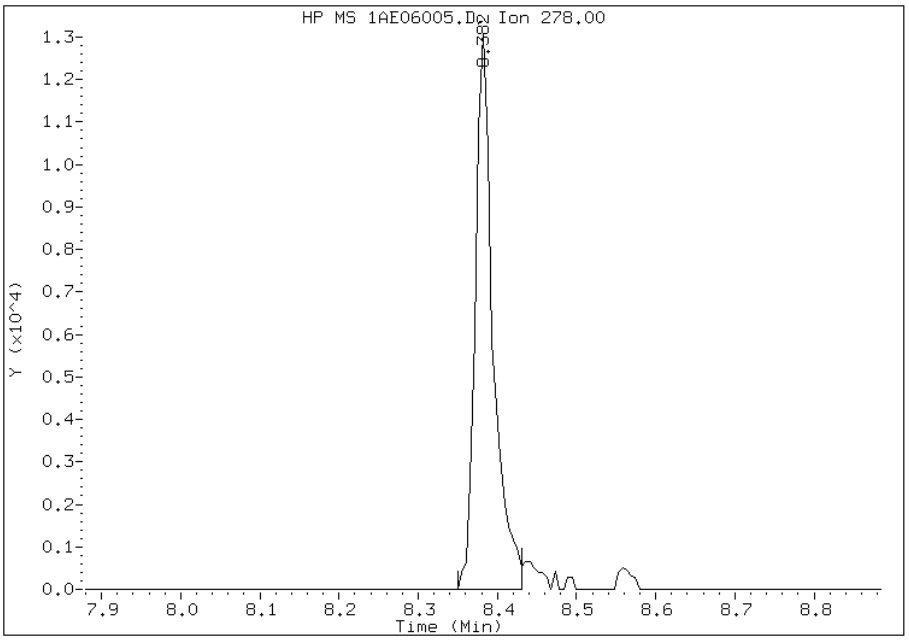
Processing Integration Results

RT: 8.38

Response: 20294

Amount: 1

Conc: 1



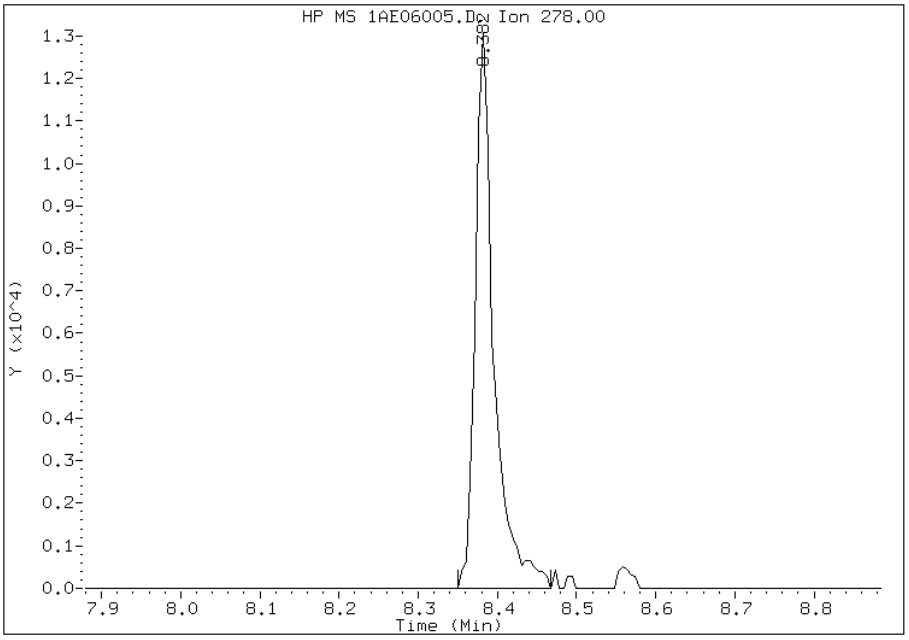
Manual Integration Results

RT: 8.38

Response: 21249

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06005.D
Inj. Date and Time: 06-MAY-2013 10:56
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/06/2013

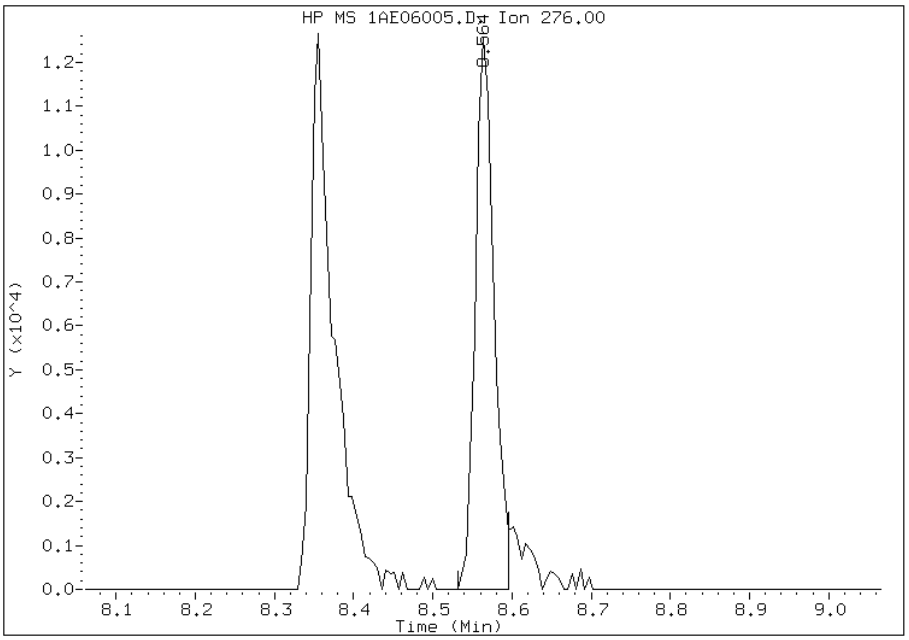
Processing Integration Results

RT: 8.56

Response: 20567

Amount: 1

Conc: 1



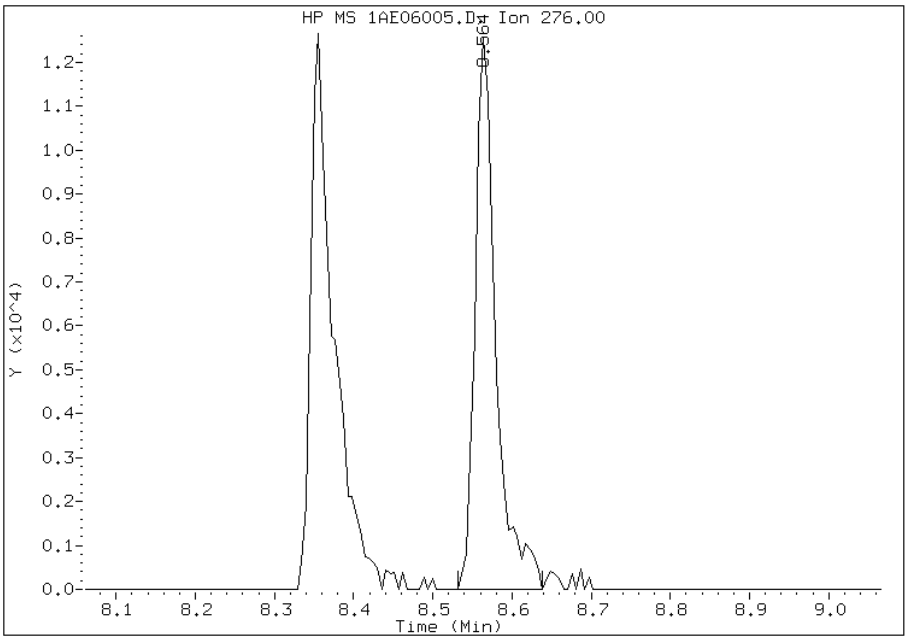
Manual Integration Results

RT: 8.56

Response: 22641

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:55
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06006.D
Lab Smp Id: IC-1531399
Inj Date : 06-MAY-2013 11:11
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531399
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 06-MAY-2013 10:56 Cal File: 1AE06005.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.544	2.544	(1.000)	1300957	40.0000	
*	6 Acenaphthene-d10	164	3.569	3.575	(1.000)	627926	40.0000	
*	10 Phenanthrene-d10	188	4.520	4.520	(1.000)	1066875	40.0000	
$	14 o-Terphenyl	230	4.814	4.819	(1.065)	80011	5.00000	5.2399
*	18 Chrysene-d12	240	6.529	6.534	(1.000)	1008970	40.0000	
*	23 Perylene-d12	264	7.613	7.629	(1.000)	951721	40.0000	
	2 Naphthalene	128	2.554	2.554	(1.004)	156392	5.00000	5.1047
	3 2-Methylnaphthalene	141	2.960	2.960	(1.164)	81952	5.00000	5.2634
	4 1-Methylnaphthalene	142	3.014	3.014	(1.185)	92797	5.00000	4.9724
	5 Acenaphthylene	152	3.484	3.484	(0.976)	156651	5.00000	5.3091
	7 Acenaphthene	154	3.585	3.591	(1.004)	86437	5.00000	5.1011
	9 Fluorene	166	3.901	3.901	(1.093)	101320	5.00000	5.2469
	11 Phenanthrene	178	4.531	4.536	(1.002)	136267	5.00000	5.1555
	12 Anthracene	178	4.563	4.568	(1.009)	146994	5.00000	5.2208
	13 Carbazole	167	4.697	4.702	(1.039)	139150	5.00000	5.4968(M)
	15 Fluoranthene	202	5.391	5.396	(1.193)	156066	5.00000	5.1326
	16 Pyrene	202	5.557	5.562	(0.851)	169550	5.00000	5.2278
	17 Benzo(a)anthracene	228	6.524	6.523	(0.999)	138014	5.00000	4.8671
	19 Chrysene	228	6.545	6.550	(1.002)	161246	5.00000	5.0539
	20 Benzo(b)fluoranthene	252	7.336	7.346	(0.964)	126343	5.00000	5.0224
	21 Benzo(k)fluoranthene	252	7.357	7.368	(0.966)	164403	5.00000	5.2680
	22 Benzo(a)pyrene	252	7.565	7.576	(0.994)	129901	5.00000	5.0281
	24 Indeno(1,2,3-cd)pyrene	276	8.361	8.388	(1.098)	104666	5.00000	4.8360(M)
	25 Dibenzo(a,h)anthracene	278	8.388	8.415	(1.102)	118003	5.00000	5.3189(M)
	26 Benzo(g,h,i)perylene	276	8.570	8.602	(1.126)	122623	5.00000	5.2687(M)

QC Flag Legend

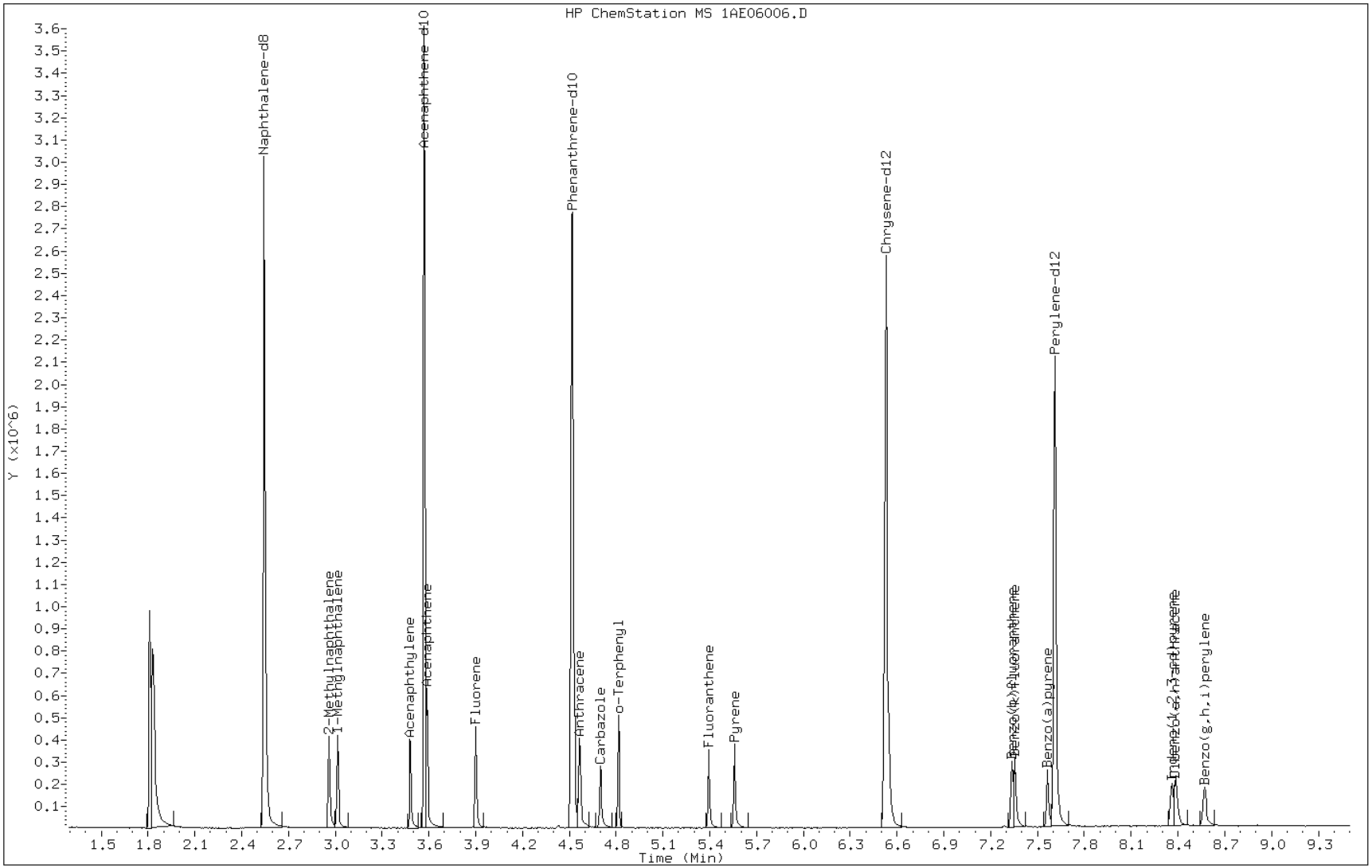
M - Compound response manually integrated.

Data File: 1AE06006.D

Date: 06-MAY-2013 11:11

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531399 Operator: SCC



Manual Integration Report

Data File: 1AE06006.D
Inj. Date and Time: 06-MAY-2013 11:11
Instrument ID: BSMA5973.i
Client ID:
Compound: 13 Carbazole
CAS #: 86-74-8
Report Date: 05/06/2013

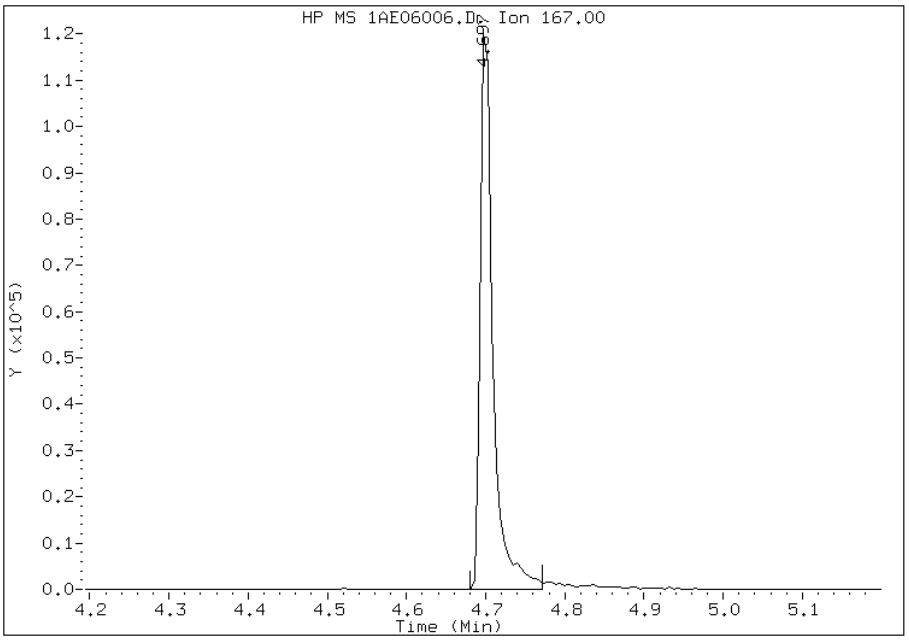
Processing Integration Results

RT: 4.70

Response: 132433

Amount: 5

Conc: 5



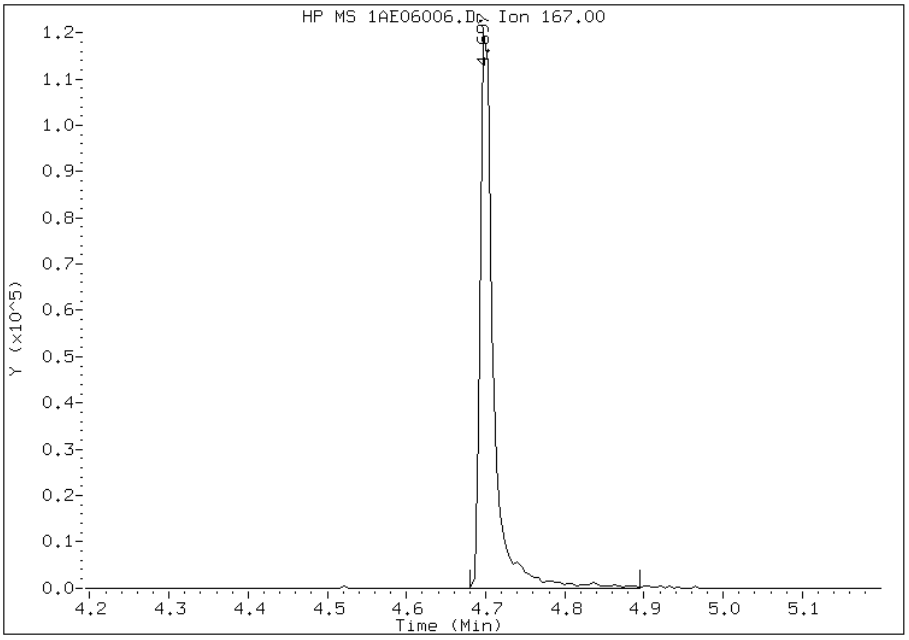
Manual Integration Results

RT: 4.70

Response: 139150

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:56
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06006.D
Inj. Date and Time: 06-MAY-2013 11:11
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/06/2013

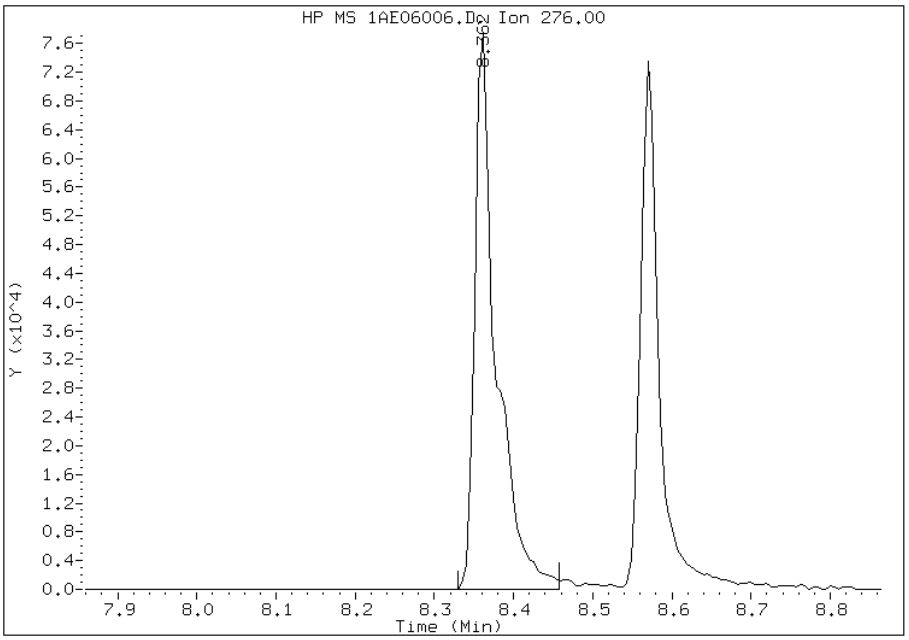
Processing Integration Results

RT: 8.36

Response: 144694

Amount: 6

Conc: 6



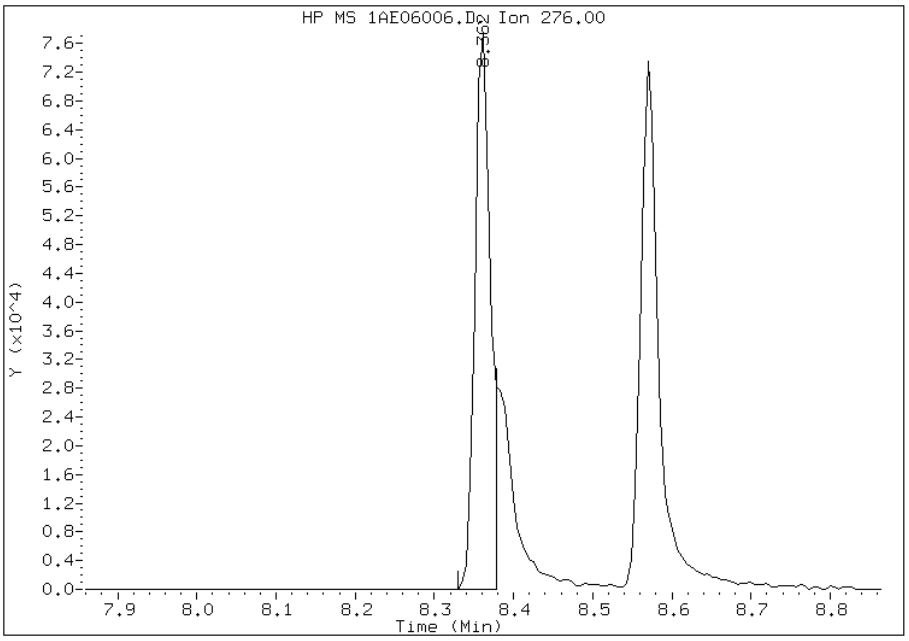
Manual Integration Results

RT: 8.36

Response: 104666

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:57
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE06006.D
Inj. Date and Time: 06-MAY-2013 11:11
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/06/2013

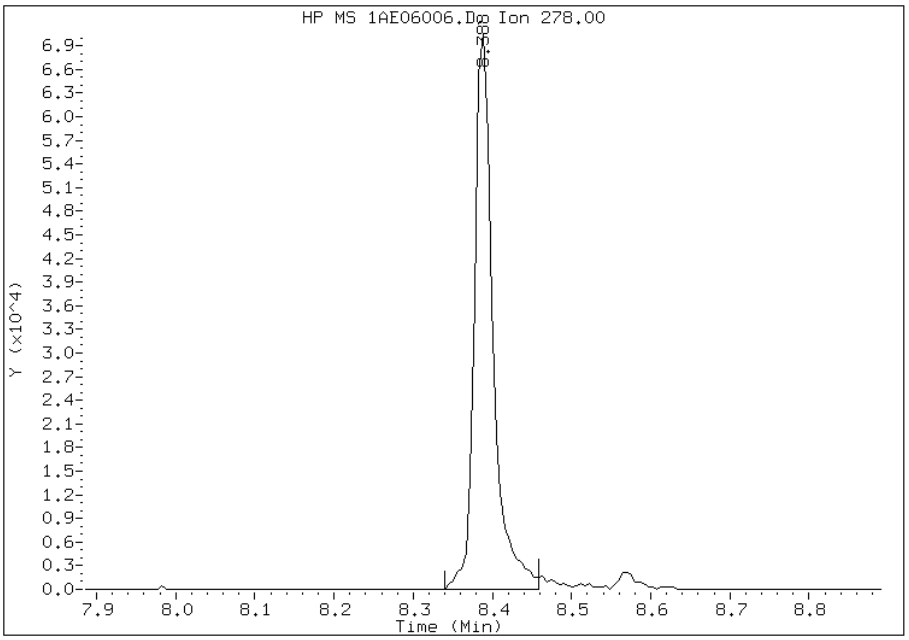
Processing Integration Results

RT: 8.39

Response: 114675

Amount: 5

Conc: 5



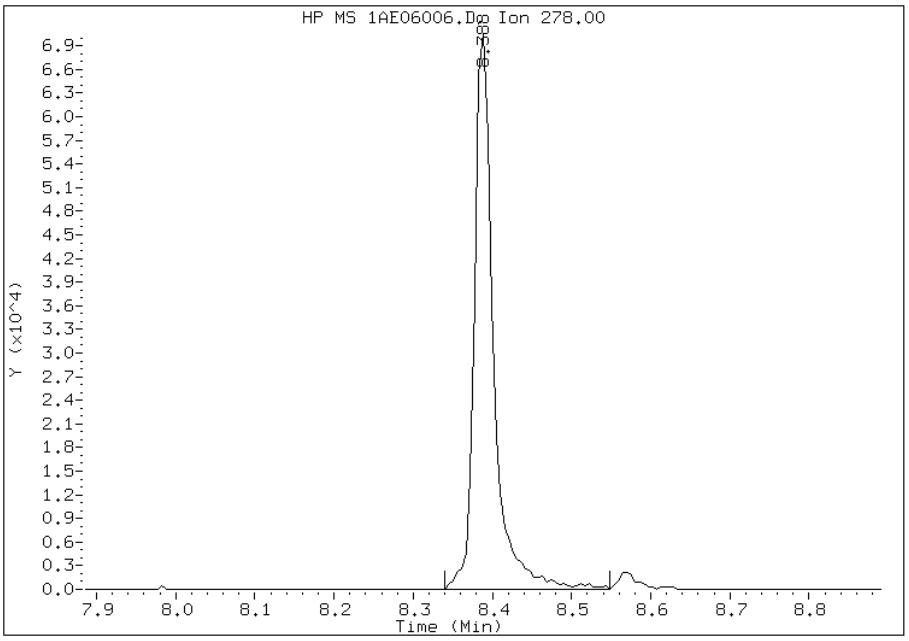
Manual Integration Results

RT: 8.39

Response: 118003

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06006.D
Inj. Date and Time: 06-MAY-2013 11:11
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/06/2013

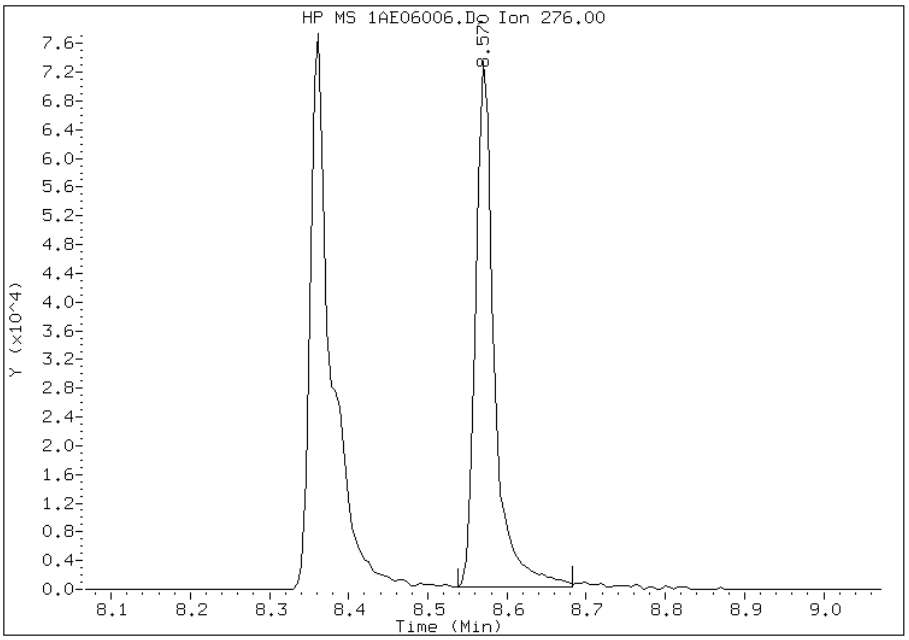
Processing Integration Results

RT: 8.57

Response: 119162

Amount: 5

Conc: 5



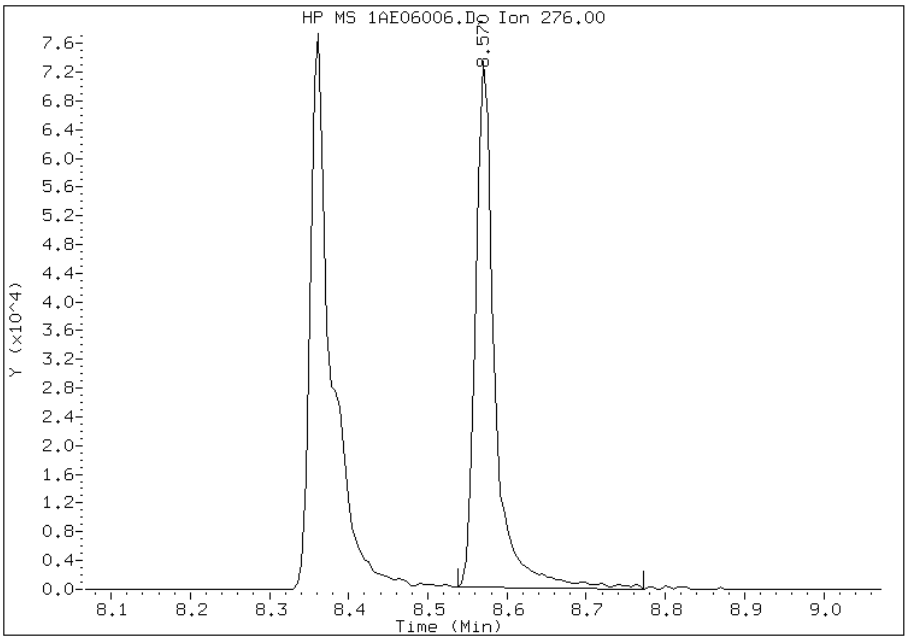
Manual Integration Results

RT: 8.57

Response: 122623

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:57
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06007.D
Lab Smp Id: IC-1531400
Inj Date : 06-MAY-2013 11:26
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531400
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 06-MAY-2013 11:11 Cal File: 1AE06006.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.544	2.544	(1.000)	1250785	40.0000	
*	6 Acenaphthene-d10	164	3.569	3.575	(1.000)	625378	40.0000	
*	10 Phenanthrene-d10	188	4.515	4.520	(1.000)	1057947	40.0000	
$	14 o-Terphenyl	230	4.814	4.819	(1.066)	154345	10.0000	10.1934
*	18 Chrysene-d12	240	6.534	6.534	(1.000)	990305	40.0000	
*	23 Perylene-d12	264	7.613	7.629	(1.000)	956248	40.0000	
	2 Naphthalene	128	2.554	2.554	(1.004)	301663	10.0000	10.2415
	3 2-Methylnaphthalene	141	2.960	2.960	(1.164)	150716	10.0000	10.0682
	4 1-Methylnaphthalene	142	3.014	3.014	(1.185)	180349	10.0000	10.0514
	5 Acenaphthylene	152	3.484	3.484	(0.976)	305312	10.0000	10.3897
	7 Acenaphthene	154	3.586	3.591	(1.004)	170588	10.0000	10.1084
	9 Fluorene	166	3.901	3.901	(1.093)	192234	10.0000	9.9956
	11 Phenanthrene	178	4.531	4.536	(1.004)	258887	10.0000	9.8774
	12 Anthracene	178	4.568	4.568	(1.012)	283812	10.0000	10.1653
	13 Carbazole	167	4.702	4.702	(1.041)	256614	10.0000	10.2225
	15 Fluoranthene	202	5.396	5.396	(1.195)	302969	10.0000	10.0480
	16 Pyrene	202	5.557	5.562	(0.850)	327292	10.0000	10.2817
	17 Benzo(a)anthracene	228	6.518	6.523	(0.998)	257936	10.0000	9.2676
	19 Chrysene	228	6.550	6.550	(1.002)	314241	10.0000	10.0348
	20 Benzo(b)fluoranthene	252	7.336	7.346	(0.964)	236568	10.0000	9.3596
	21 Benzo(k)fluoranthene	252	7.357	7.368	(0.966)	337219	10.0000	10.7544
	22 Benzo(a)pyrene	252	7.565	7.576	(0.994)	263990	10.0000	10.1700
	24 Indeno(1,2,3-cd)pyrene	276	8.361	8.388	(1.098)	216924	10.0000	9.9754(M)
	25 Dibenzo(a,h)anthracene	278	8.388	8.415	(1.102)	224688	10.0000	10.0798
	26 Benzo(g,h,i)perylene	276	8.575	8.602	(1.126)	232133	10.0000	9.9268(M)

QC Flag Legend

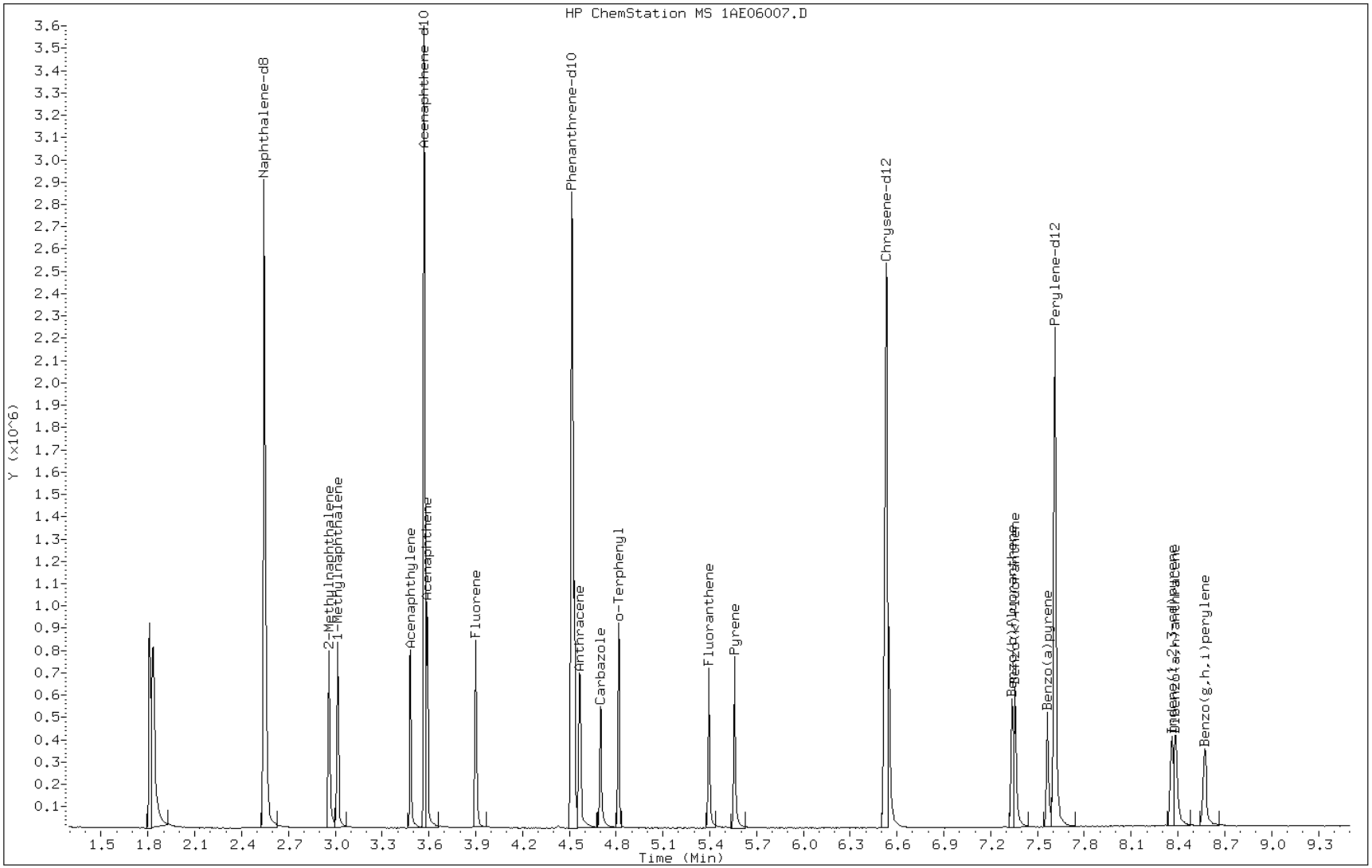
M - Compound response manually integrated.

Data File: 1AE06007.D

Date: 06-MAY-2013 11:26

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531400 Operator: SCC



Manual Integration Report

Data File: 1AE06007.D
Inj. Date and Time: 06-MAY-2013 11:26
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/06/2013

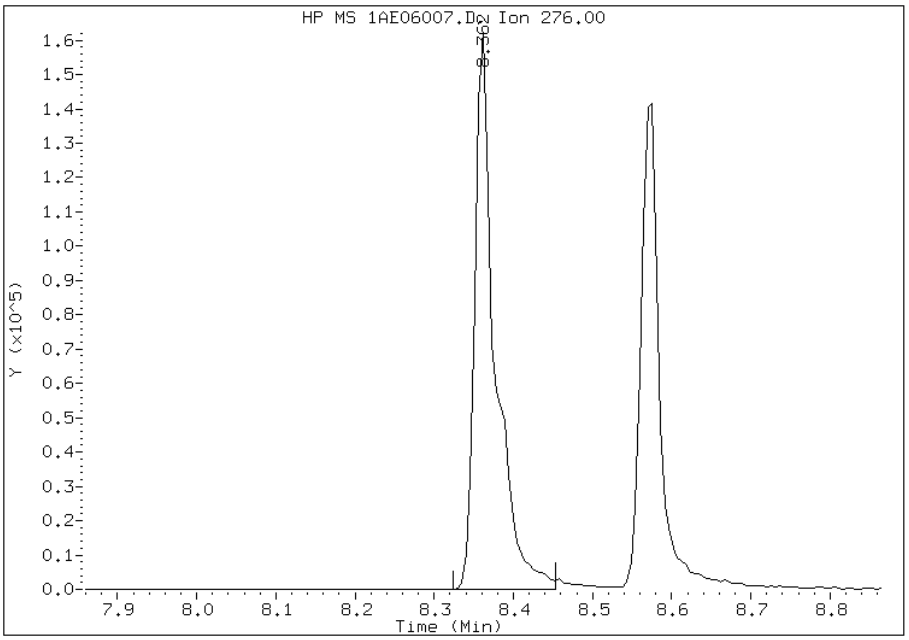
Processing Integration Results

RT: 8.36

Response: 287823

Amount: 13

Conc: 13



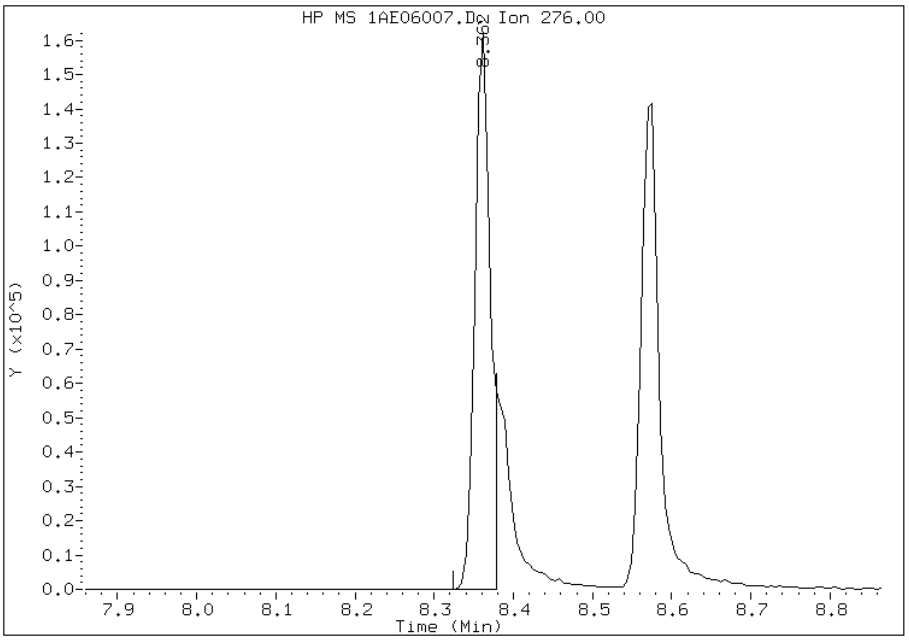
Manual Integration Results

RT: 8.36

Response: 216924

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:58
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE06007.D
Inj. Date and Time: 06-MAY-2013 11:26
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/06/2013

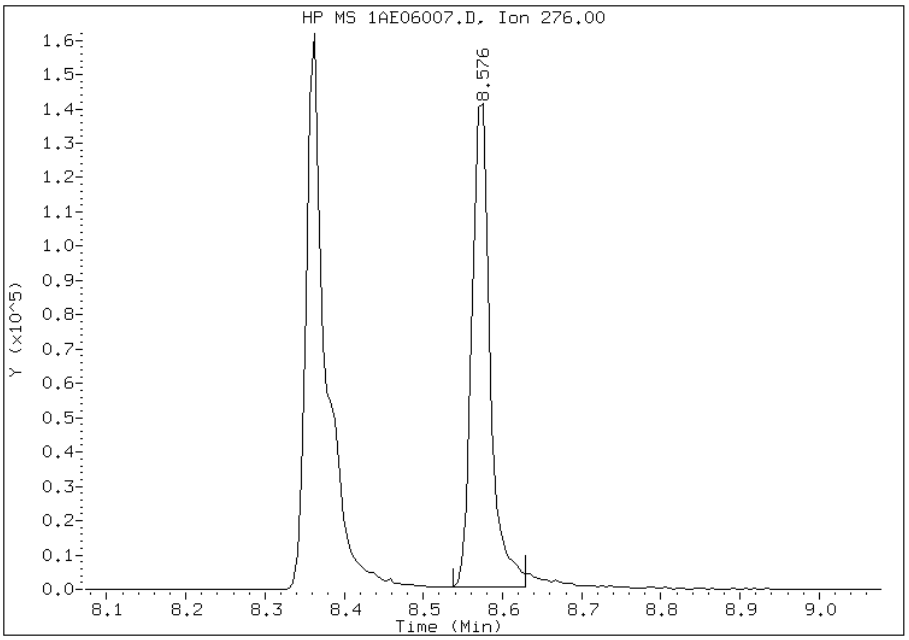
Processing Integration Results

RT: 8.58

Response: 224520

Amount: 9

Conc: 9



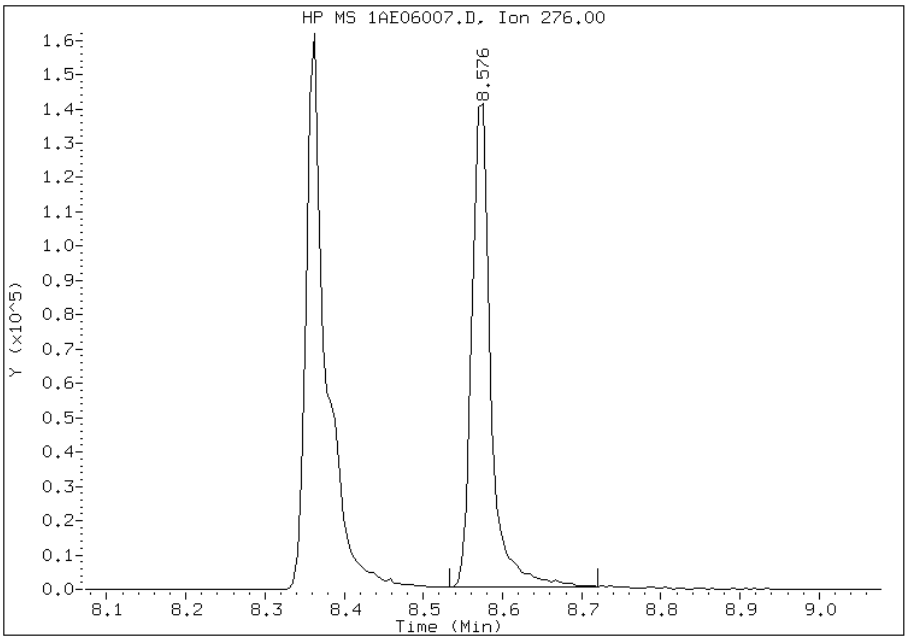
Manual Integration Results

RT: 8.58

Response: 232133

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:58
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06008.D
Lab Smp Id: IC-1531402
Inj Date : 06-MAY-2013 11:41
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531402
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 06-MAY-2013 11:26 Cal File: 1AE06007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

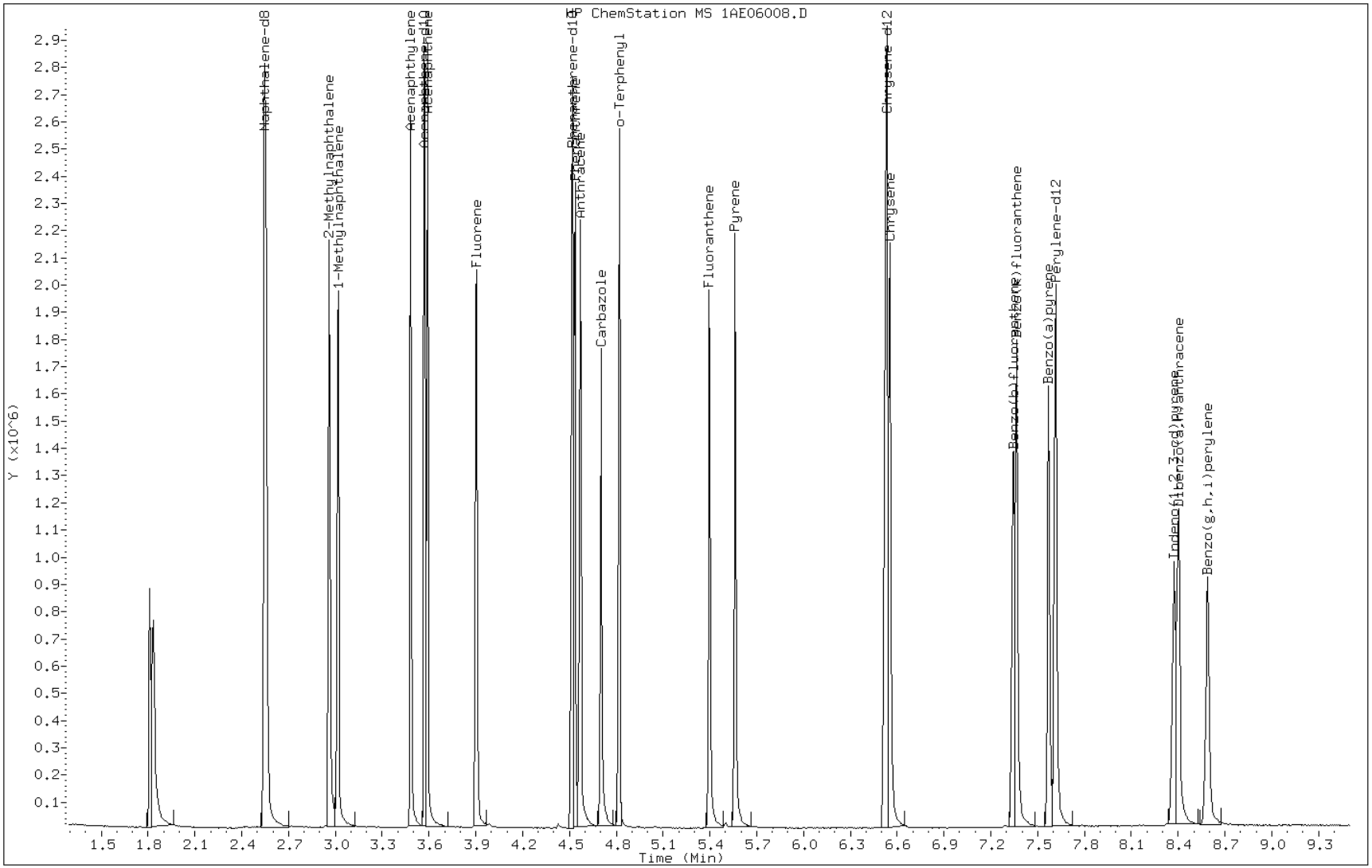
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.543	2.544	(1.000)	1147240	40.0000	
*	6 Acenaphthene-d10	164	3.569	3.575	(1.000)	572111	40.0000	
*	10 Phenanthrene-d10	188	4.519	4.520	(1.000)	993324	40.0000	
$	14 o-Terphenyl	230	4.819	4.819	(1.066)	410873	30.0000	28.9008
*	18 Chrysene-d12	240	6.533	6.534	(1.000)	899878	40.0000	
*	23 Perylene-d12	264	7.618	7.629	(1.000)	841369	40.0000	
	2 Naphthalene	128	2.554	2.554	(1.004)	837016	30.0000	30.9816
	3 2-Methylnaphthalene	141	2.959	2.960	(1.164)	419604	30.0000	30.5606
	4 1-Methylnaphthalene	142	3.018	3.014	(1.187)	490403	30.0000	29.7987
	5 Acenaphthylene	152	3.483	3.484	(0.976)	801835	30.0000	29.8269
	7 Acenaphthene	154	3.590	3.591	(1.006)	419418	30.0000	27.1672
	9 Fluorene	166	3.905	3.901	(1.094)	547833	30.0000	31.1380
	11 Phenanthrene	178	4.535	4.536	(1.004)	711095	30.0000	28.8959
	12 Anthracene	178	4.567	4.568	(1.011)	778079	30.0000	29.6817
	13 Carbazole	167	4.701	4.702	(1.040)	692413	30.0000	29.3775
	15 Fluoranthene	202	5.396	5.396	(1.194)	862141	30.0000	30.4532
	16 Pyrene	202	5.561	5.562	(0.851)	882847	30.0000	30.5213
	17 Benzo(a)anthracene	228	6.523	6.523	(0.998)	735367	30.0000	29.0768
	19 Chrysene	228	6.555	6.550	(1.003)	809687	30.0000	28.4545
	20 Benzo(b)fluoranthene	252	7.345	7.346	(0.964)	752076	30.0000	33.8181
	21 Benzo(k)fluoranthene	252	7.367	7.368	(0.967)	813163	30.0000	29.4740
	22 Benzo(a)pyrene	252	7.570	7.576	(0.994)	732885	30.0000	32.0890
	24 Indeno(1,2,3-cd)pyrene	276	8.376	8.388	(1.100)	621385	30.0000	32.4764
	25 Dibenzo(a,h)anthracene	278	8.403	8.415	(1.103)	609787	30.0000	31.0911
	26 Benzo(g,h,i)perylene	276	8.590	8.602	(1.128)	633546	30.0000	30.7920

Data File: 1AE06008.D

Date: 06-MAY-2013 11:41

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1531402 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06009.D
Lab Smp Id: IC-1531403
Inj Date : 06-MAY-2013 11:56
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1531403
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 12:59 BSMA5973.i Quant Type: ISTD
Cal Date : 06-MAY-2013 11:41 Cal File: 1AE06008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.548	2.544	(1.000)	1212217	40.0000	
*	6 Acenaphthene-d10	164	3.574	3.575	(1.000)	607535	40.0000	
*	10 Phenanthrene-d10	188	4.519	4.520	(1.000)	1039476	40.0000	
$	14 o-Terphenyl	230	4.824	4.819	(1.067)	697232	50.0000	46.8659
*	18 Chrysene-d12	240	6.539	6.534	(1.000)	921157	40.0000	
*	23 Perylene-d12	264	7.618	7.629	(1.000)	881033	40.0000	
	2 Naphthalene	128	2.559	2.554	(1.004)	1397244	50.0000	48.9459
	3 2-Methylnaphthalene	141	2.965	2.960	(1.163)	745285	50.0000	51.3711(A)
	4 1-Methylnaphthalene	142	3.018	3.014	(1.184)	770690	50.0000	44.3198
	5 Acenaphthylene	152	3.483	3.484	(0.975)	1396662	50.0000	48.9242
	7 Acenaphthene	154	3.590	3.591	(1.004)	743745	50.0000	45.3661
	9 Fluorene	166	3.905	3.901	(1.093)	887590	50.0000	47.5077
	11 Phenanthrene	178	4.535	4.536	(1.004)	1241024	50.0000	48.1910
	12 Anthracene	178	4.573	4.568	(1.012)	1388133	50.0000	50.6026(AM)
	13 Carbazole	167	4.706	4.702	(1.041)	1222783	50.0000	49.5765
	15 Fluoranthene	202	5.401	5.396	(1.195)	1515990	50.0000	51.1715(A)
	16 Pyrene	202	5.566	5.562	(0.851)	1521255	50.0000	51.3772(A)
	17 Benzo(a)anthracene	228	6.528	6.523	(0.998)	1323236	50.0000	51.1129(A)
	19 Chrysene	228	6.560	6.550	(1.003)	1361261	50.0000	46.7332
	20 Benzo(b)fluoranthene	252	7.351	7.346	(0.965)	1327571	50.0000	57.0086(A)
	21 Benzo(k)fluoranthene	252	7.372	7.368	(0.968)	1352818	50.0000	46.8269(H)
	22 Benzo(a)pyrene	252	7.580	7.576	(0.995)	1252292	50.0000	52.3625(A)
	24 Indeno(1,2,3-cd)pyrene	276	8.382	8.388	(1.100)	1152680	50.0000	57.5322(A)
	25 Dibenzo(a,h)anthracene	278	8.414	8.415	(1.104)	1076428	50.0000	52.4129(A)
	26 Benzo(g,h,i)perylene	276	8.606	8.602	(1.130)	1116517	50.0000	51.8227(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AE06009.D

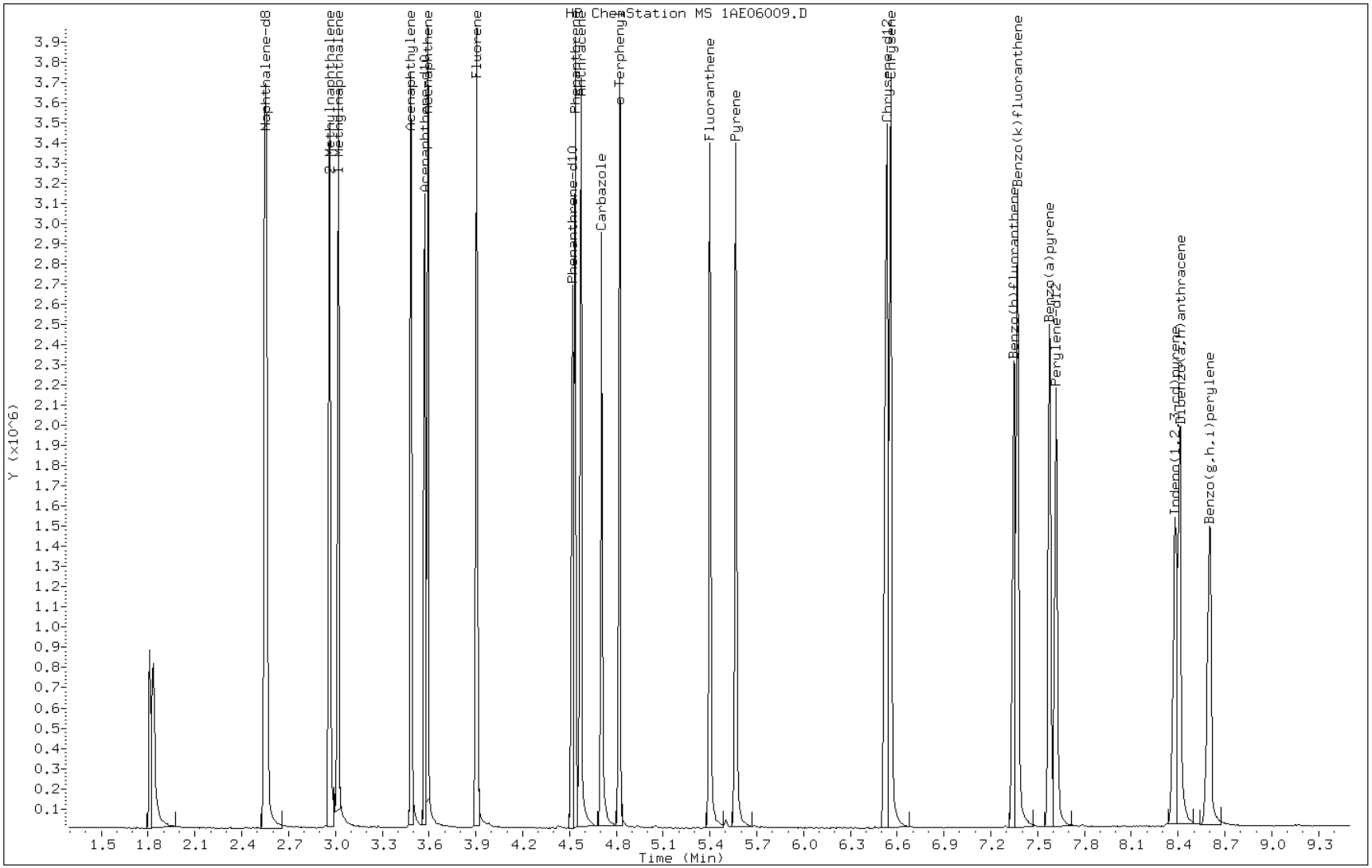
Date: 06-MAY-2013 11:56

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531403

Operator: SCC



Manual Integration Report

Data File: 1AE06009.D
Inj. Date and Time: 06-MAY-2013 11:56
Instrument ID: BSMA5973.i
Client ID:
Compound: 12 Anthracene
CAS #: 120-12-7
Report Date: 05/06/2013

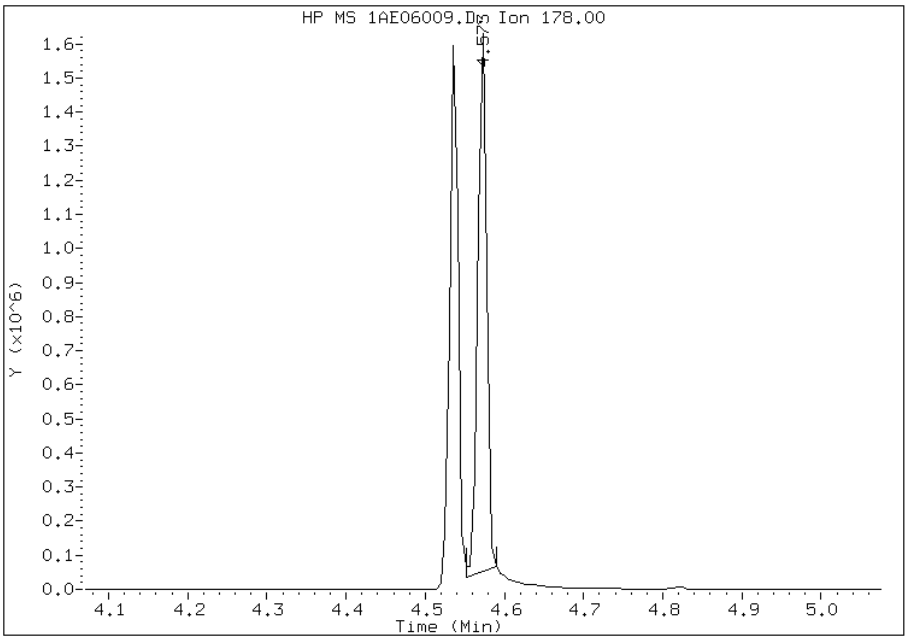
Processing Integration Results

RT: 4.57

Response: 1176629

Amount: 43

Conc: 43



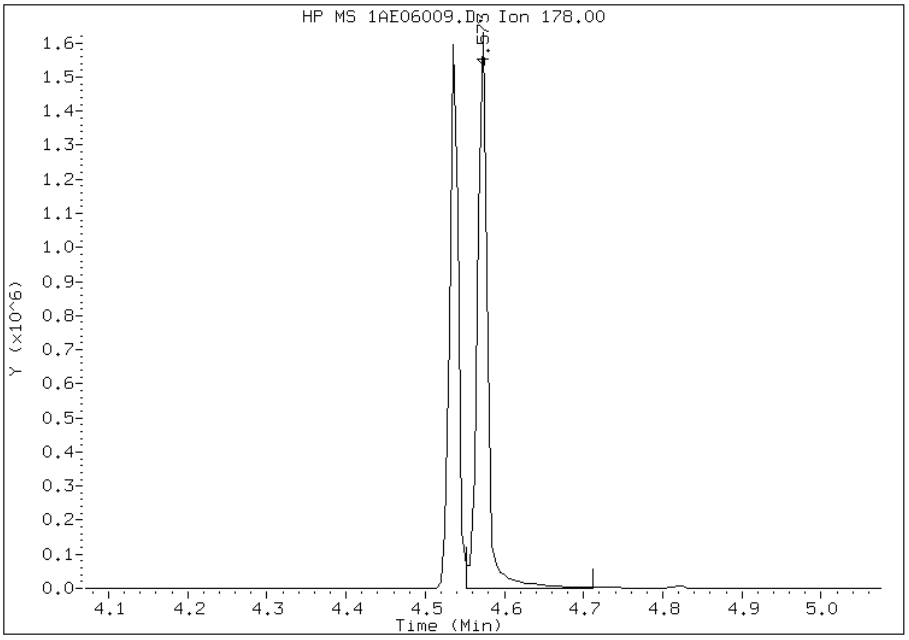
Manual Integration Results

RT: 4.57

Response: 1388133

Amount: 51

Conc: 51



Manually Integrated By: cantins
Modification Date: 06-May-2013 12:59
Manual Integration Reason: Baseline Event

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

Lab Name: TestAmerica Tampa Job No.: 680-89791-2 Analy Batch No.: 136164

SDG No.: 68089791-2

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

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

Calibration Files:

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

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

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

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

Lab Name: TestAmerica Tampa Job No.: 680-89791-2 Analy Batch No.: 136164

SDG No.: 68089791-2

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

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

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	0.9941 1.0870	1.0278 1.1123	1.0413	1.0574	1.0488	Ave		1.0527			0.0000	3.7		15.0			
Benzo[a]pyrene	0.9363 1.0554	0.9330 1.0817	1.0086	0.9978	1.0150	Ave		1.0040			0.0000	5.5		15.0			
Indeno[1,2,3-cd]pyrene	0.9719 1.1444	1.0047 1.2203	1.0673	1.0253	1.0598	Ave		1.0705			0.0000	8.0		15.0			
Dibenz(a,h)anthracene	1.0008 1.0474	0.9200 1.0891	1.0022	0.9846	1.0127	Ave		1.0081			0.0000	5.2		15.0			
Benzo[g,h,i]perylene	0.9959 1.0588	1.0032 1.0675	1.0494	1.0184	1.0221	Ave		1.0308			0.0000	2.7		15.0			
o-Terphenyl	0.5239 0.6240	0.5611 0.6847	0.6139	0.5898	0.6214	Ave		0.6027			0.0000	8.5		15.0			

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

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-89791-2 Analy B

SDG No.: 68089791-2

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibra

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					CO	
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7
Naphthalene	NPT	Ave	11503 1777021	59216 3211548	316194	614716	1235557	0.200 30.0	1. 50
2-Methylnaphthalene	NPT	Ave	7158 1162560	37688 2134320	200332	401151	806286	0.200 30.0	1. 50
1-Methylnaphthalene	NPT	Ave	6852 1096847	35645 1999874	190230	377068	757317	0.200 30.0	1. 50
Acenaphthylene	ANT	Ave	10298 1852399	56340 3396591	314191	620756	1275622	0.200 30.0	1. 50
Acenaphthene	ANT	Ave	7207 1100779	35951 2018481	193205	375673	757590	0.200 30.0	1. 50
Fluorene	ANT	Ave	8154 1323451	42826 2393163	223769	453336	918747	0.200 30.0	1. 50
Phenanthrene	PHN	Ave	12866 1932978	63070 3534794	338739	657435	1331875	0.200 30.0	1. 50
Anthracene	PHN	Ave	11703 1981347	61222 3590722	335430	663091	1360668	0.200 30.0	1. 50
Carbazole	PHN	Ave	10338 1717245	55563 3137679	295345	584967	1202897	0.200 30.0	1. 50
Fluoranthene	PHN	Ave	12529 2025512	64445 3681257	348578	684049	1392506	0.200 30.0	1. 50
Pyrene	CRY	Ave	13274 2181708	69252 3965627	374480	738839	1496990	0.200 30.0	1. 50
Benzo[a]anthracene	CRY	Ave	18301 1914899	68675 3388838	339292	655565	1332372	0.200 30.0	1. 50
Chrysene	CRY	Ave	13779 1900592	63553 3512644	329706	641842	1305118	0.200 30.0	1. 50
Benzo[b]fluoranthene	PRY	Ave	12005 1811151	57946 3290902	323060	612455	1270704	0.200 30.0	1. 50
Benzo[k]fluoranthene	PRY	Ave	12382 1910468	64288 3421834	328752	667284	1319239	0.200 30.0	1. 50
Benzo[a]pyrene	PRY	Ave	11662 1854979	58354 3327888	318431	629684	1276688	0.200 30.0	1. 50
Indeno[1,2,3-cd]pyrene	PRY	Ave	12106 2011375	62840 3754268	336963	647015	1333044	0.200 30.0	1. 50
Dibenz(a,h)anthracene	PRY	Ave	12466 1840819	57541 3350541	316396	621340	1273836	0.200 30.0	1. 50
Benzo[g,h,i]perylene	PRY	Ave	12405 1860821	62750 3284166	331324	642692	1285637	0.200 30.0	1. 50
o-Terphenyl	PHN	Ave	6343 1074388	33997 2031596	185249	360585	754512	0.200 30.0	1. 50

Curve Type Legend:
Ave = Average ISTD

136164

N

2874

	LVL 3	LVL 4	LVL 5
	5.00	10.0	20.0
	5.00	10.0	20.0
	5.00	10.0	20.0
	5.00	10.0	20.0
	5.00	10.0	20.0
	5.00	10.0	20.0
	5.00	10.0	20.0
	5.00	10.0	20.0
	5.00	10.0	20.0
	5.00	10.0	20.0
	5.00	10.0	20.0
	5.00	10.0	20.0
	5.00	10.0	20.0
	5.00	10.0	20.0
	5.00	10.0	20.0
	5.00	10.0	20.0
	5.00	10.0	20.0
	5.00	10.0	20.0
	5.00	10.0	20.0
	5.00	10.0	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

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

	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

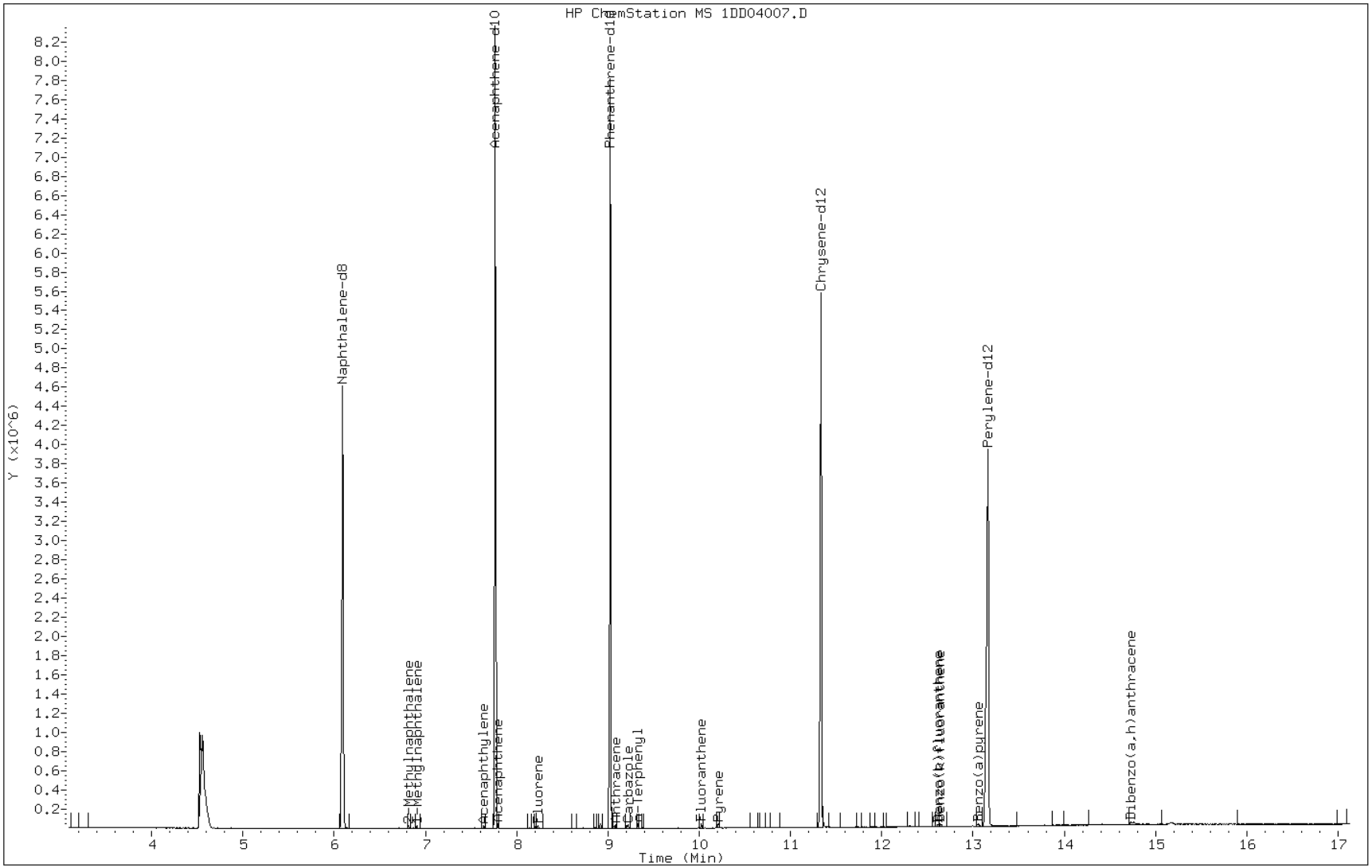
M - Compound response manually integrated.

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

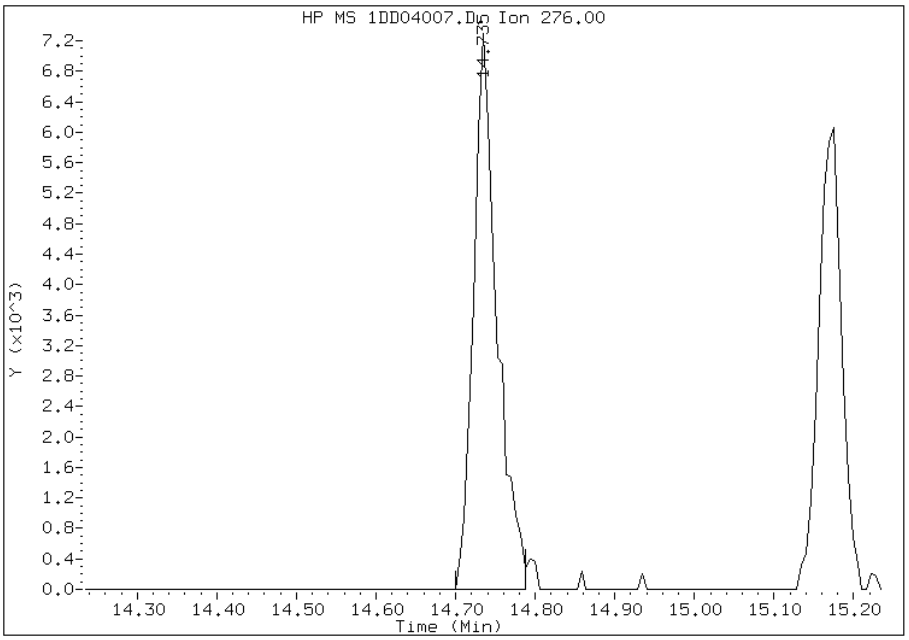
Processing Integration Results

RT: 14.73

Response: 14910

Amount: 0

Conc: 0



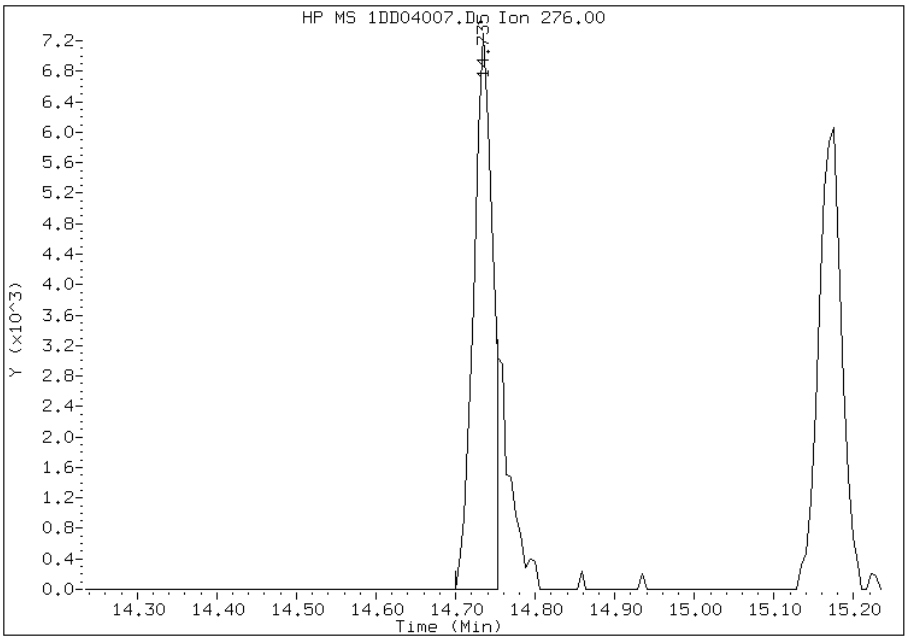
Manual Integration Results

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

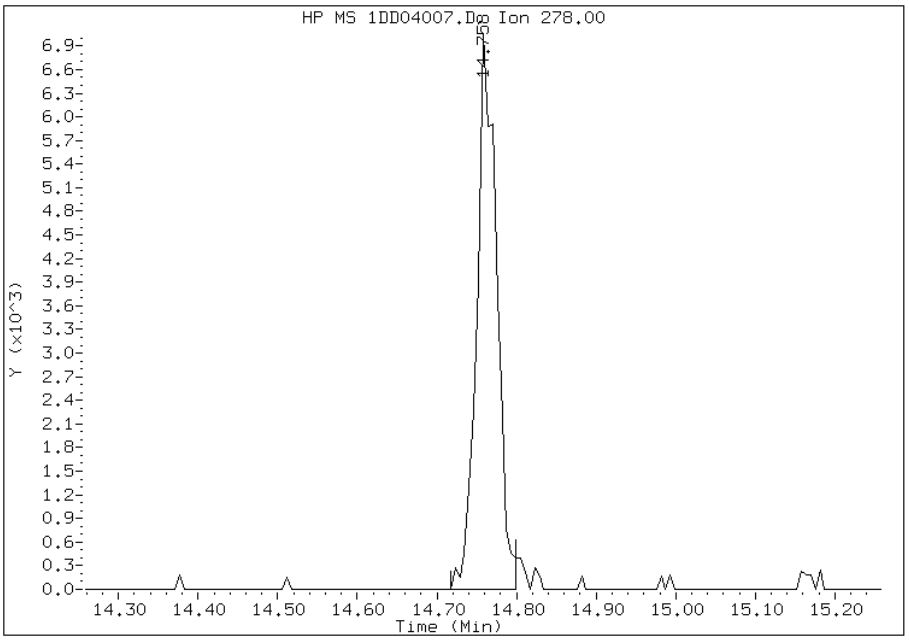
Processing Integration Results

RT: 14.76

Response: 12250

Amount: 0

Conc: 0



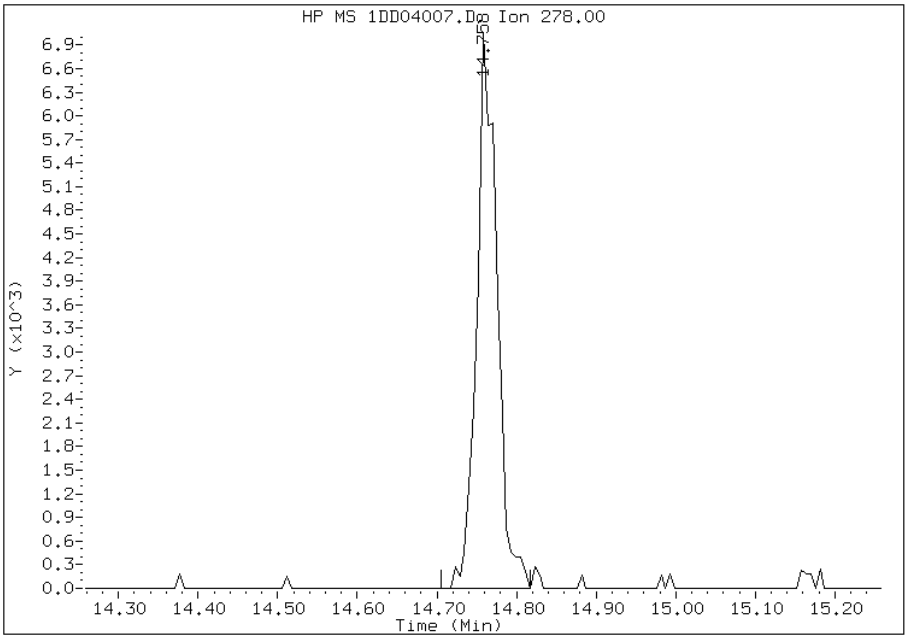
Manual Integration Results

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

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04008.D
Lab Smp Id: IC-1531398
Inj Date : 04-APR-2013 14:11
Operator : SCC 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

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

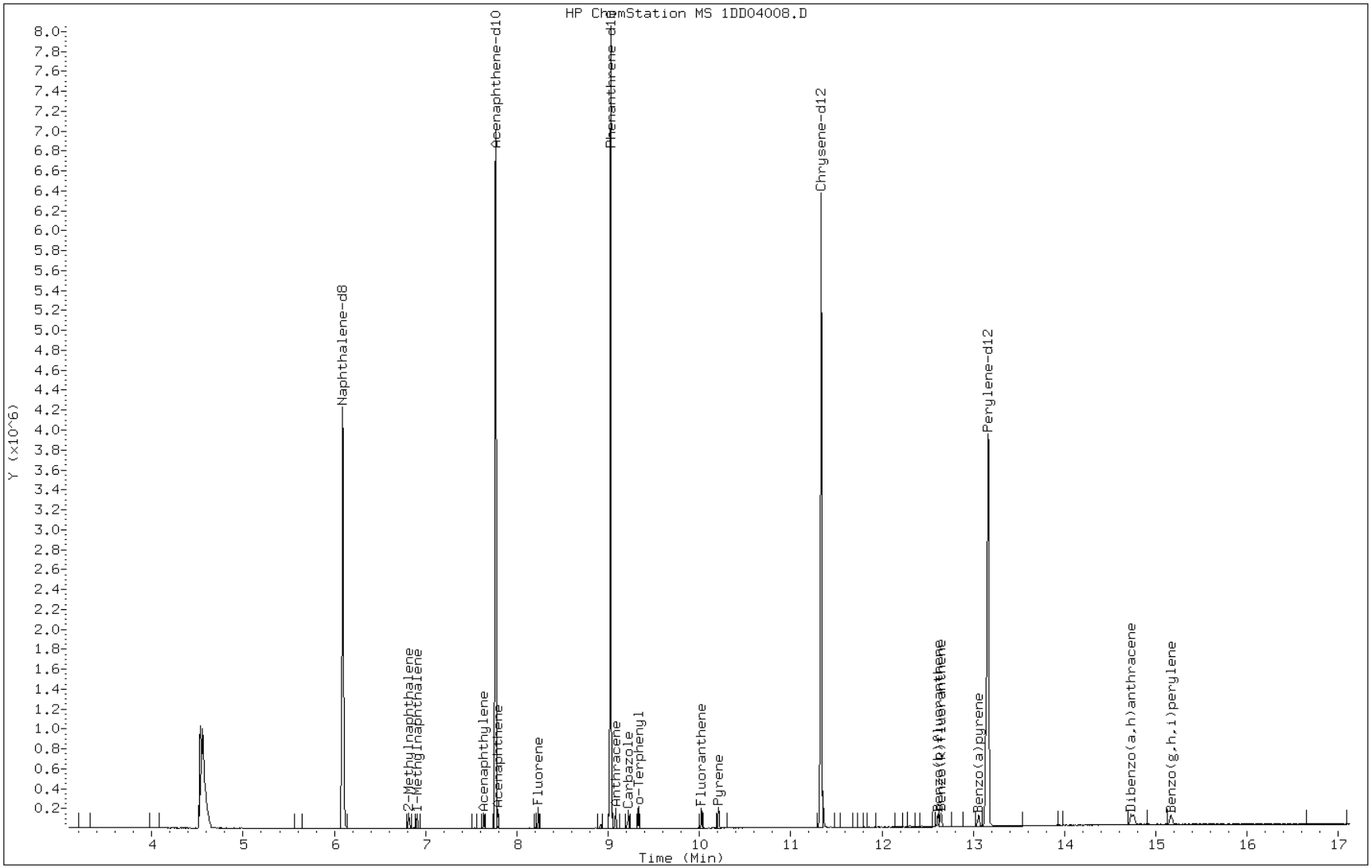
M - Compound response manually integrated.

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

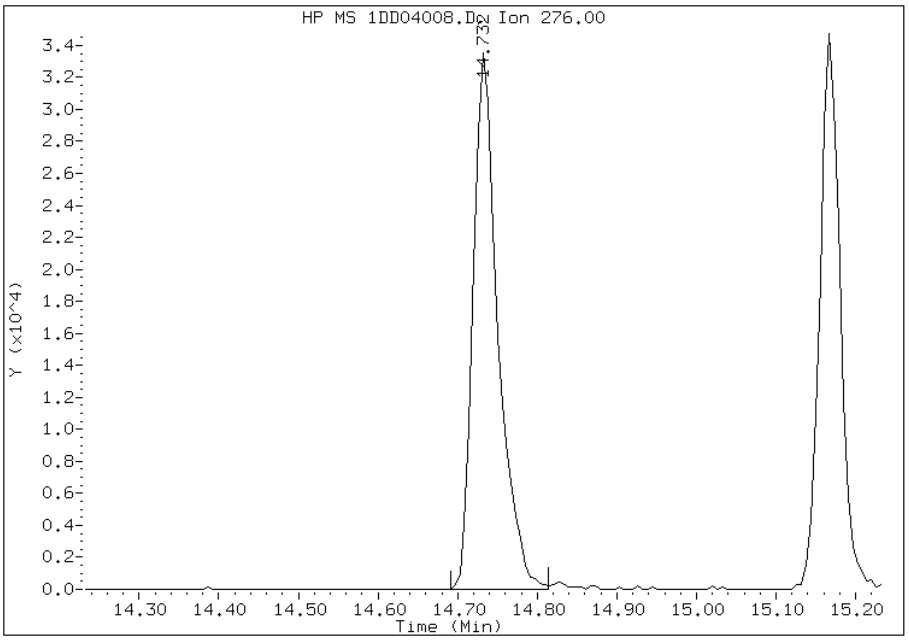
Processing Integration Results

RT: 14.73

Response: 72512

Amount: 1

Conc: 1



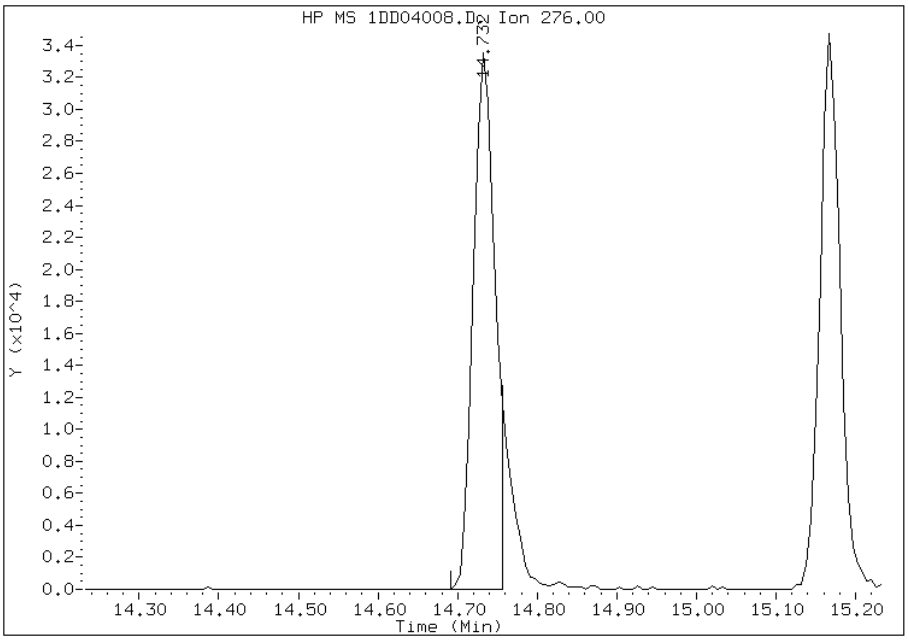
Manual Integration Results

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

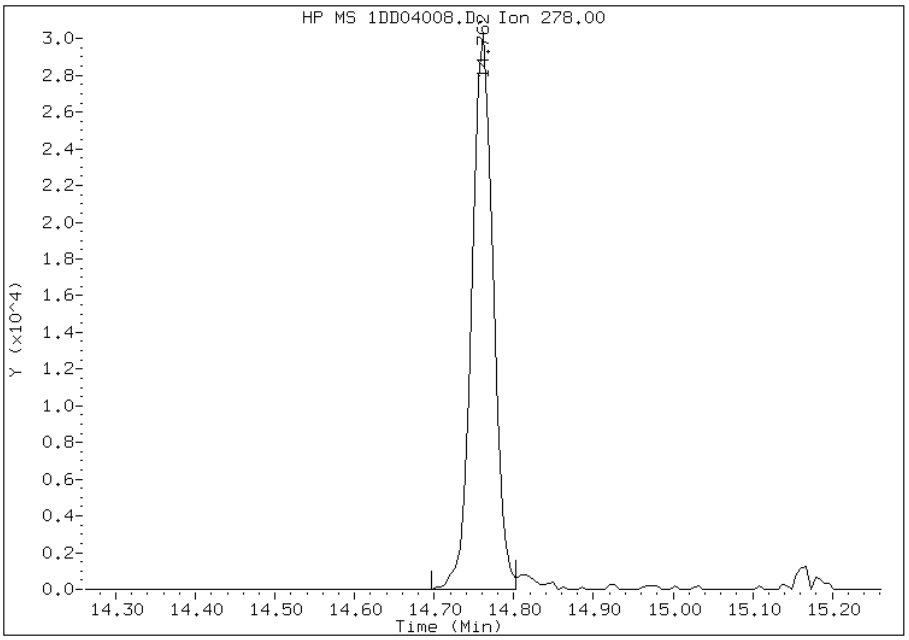
Processing Integration Results

RT: 14.76

Response: 56125

Amount: 1

Conc: 1



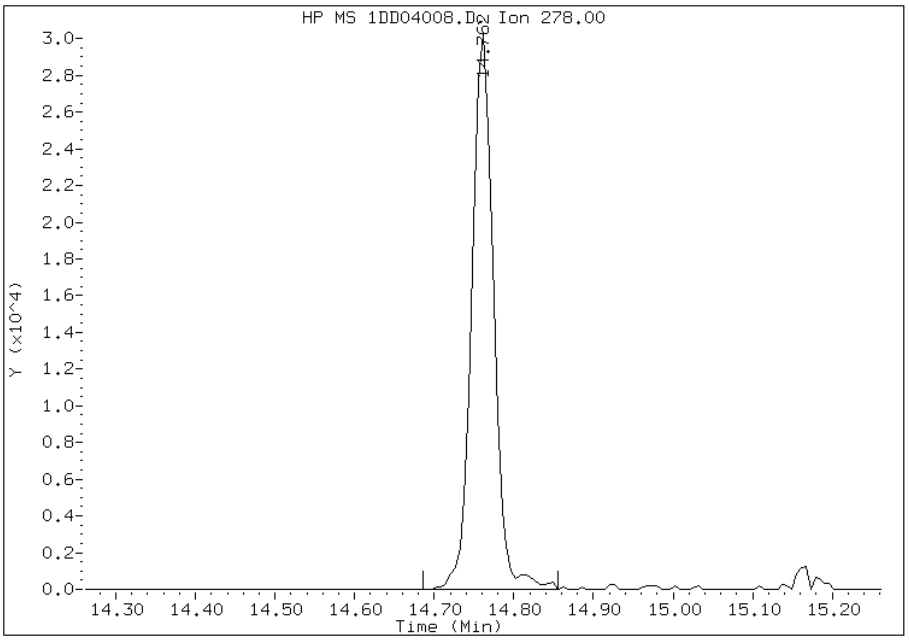
Manual Integration Results

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

		QUANT SIG					AMOUNTS	
	Compounds	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

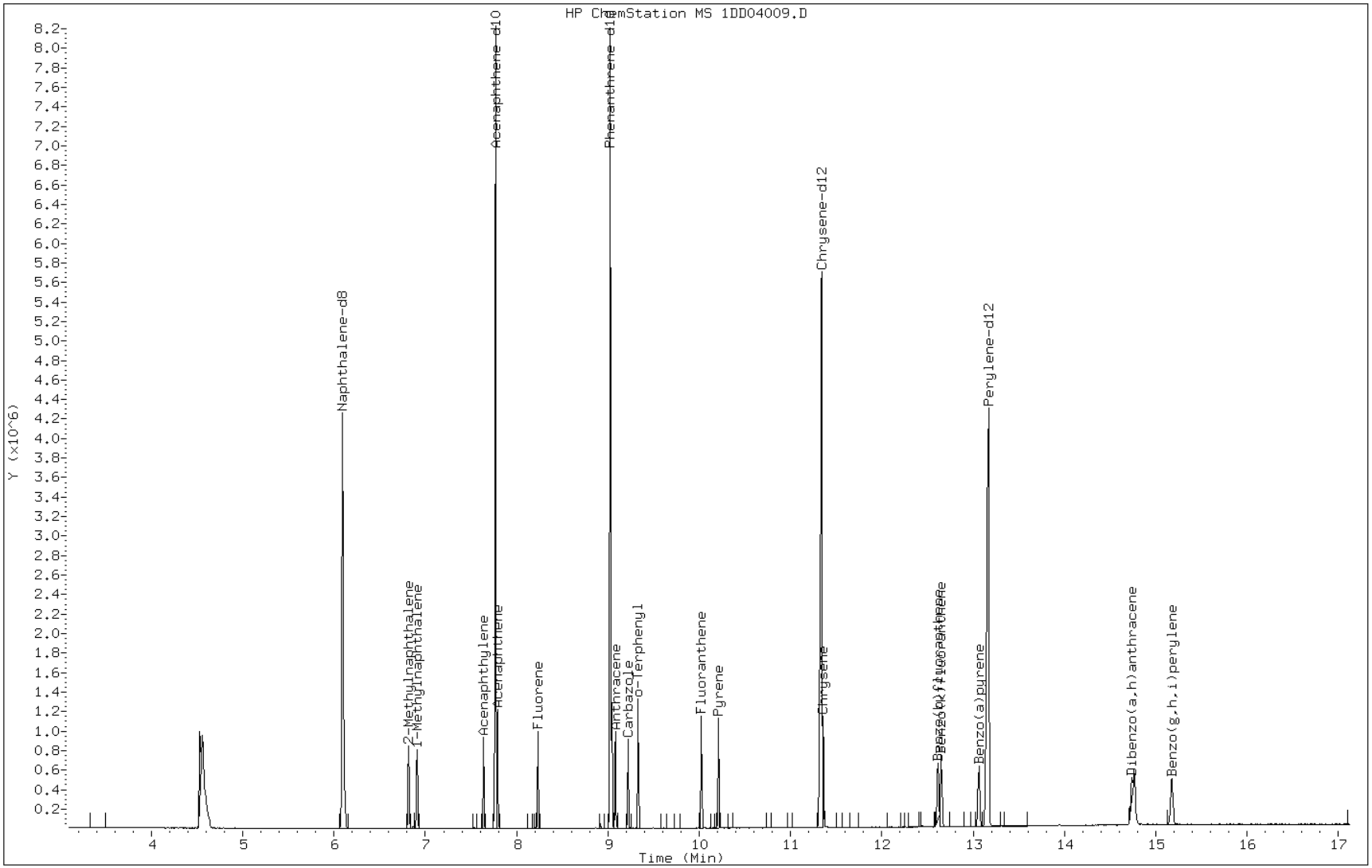
M - Compound response manually integrated.

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

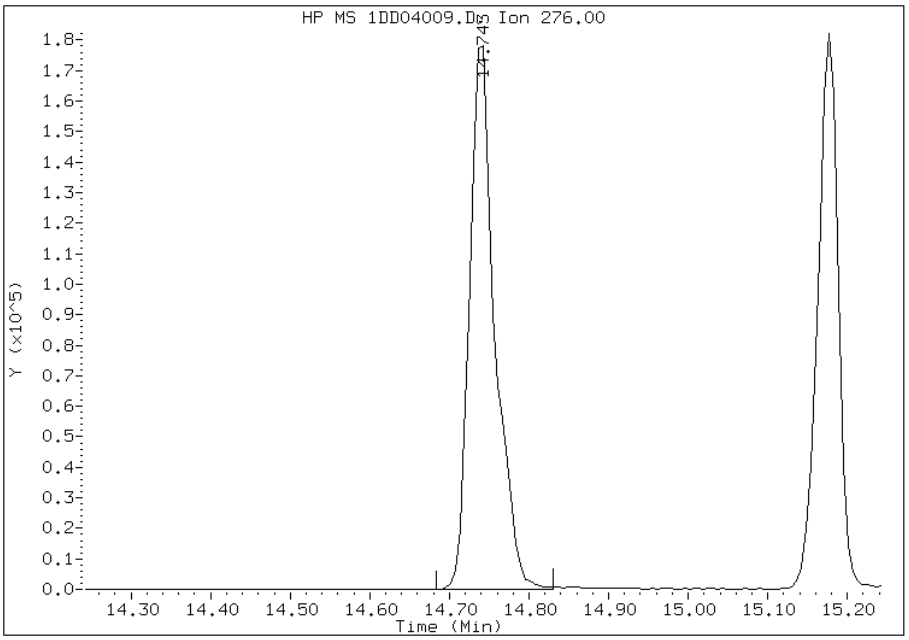
Processing Integration Results

RT: 14.74

Response: 395308

Amount: 5

Conc: 5



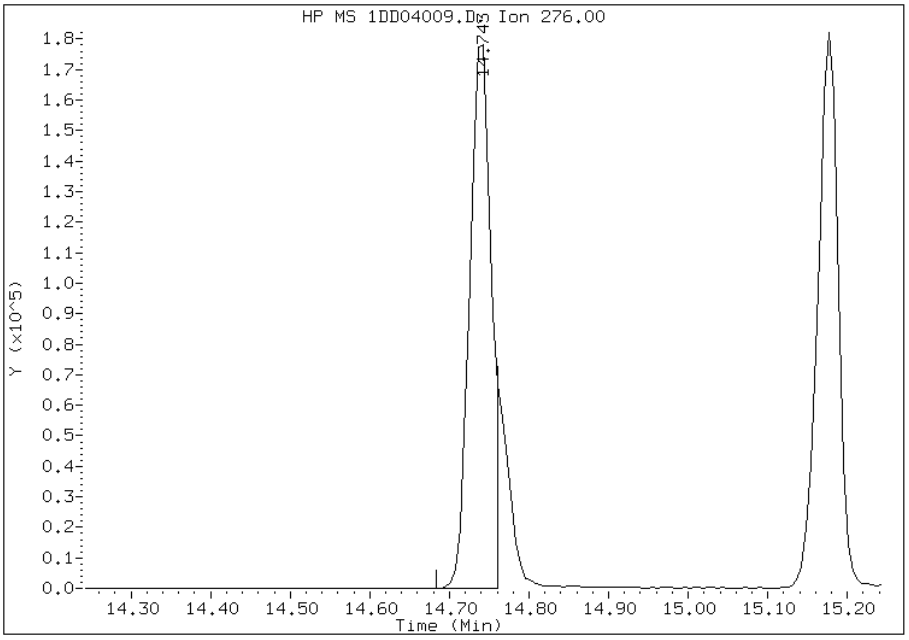
Manual Integration Results

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

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

QC Flag Legend

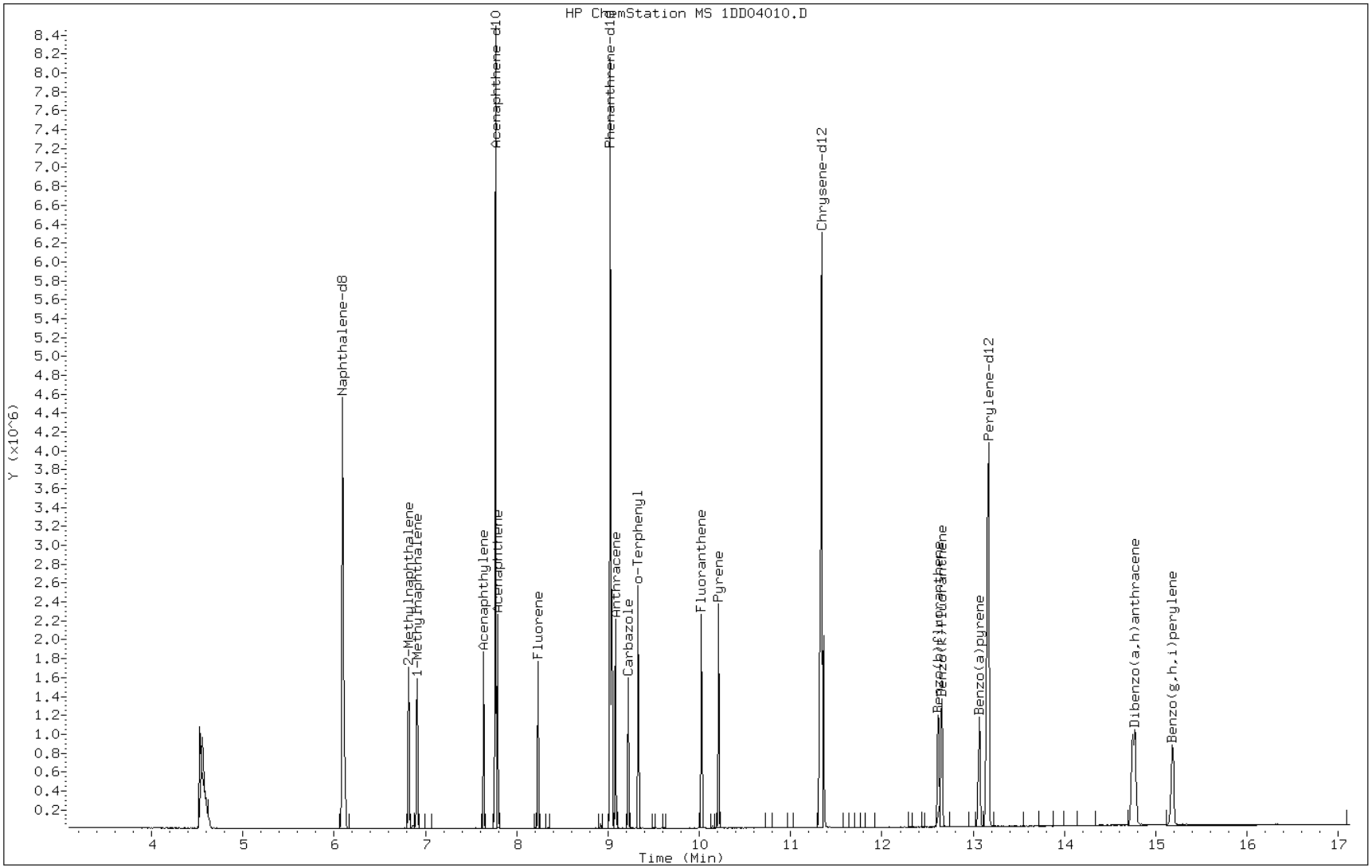
M - Compound response manually integrated.

Data File: 1DD04010.D

Date: 04-APR-2013 14:57

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531400 Operator: SCC



Manual Integration Report

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

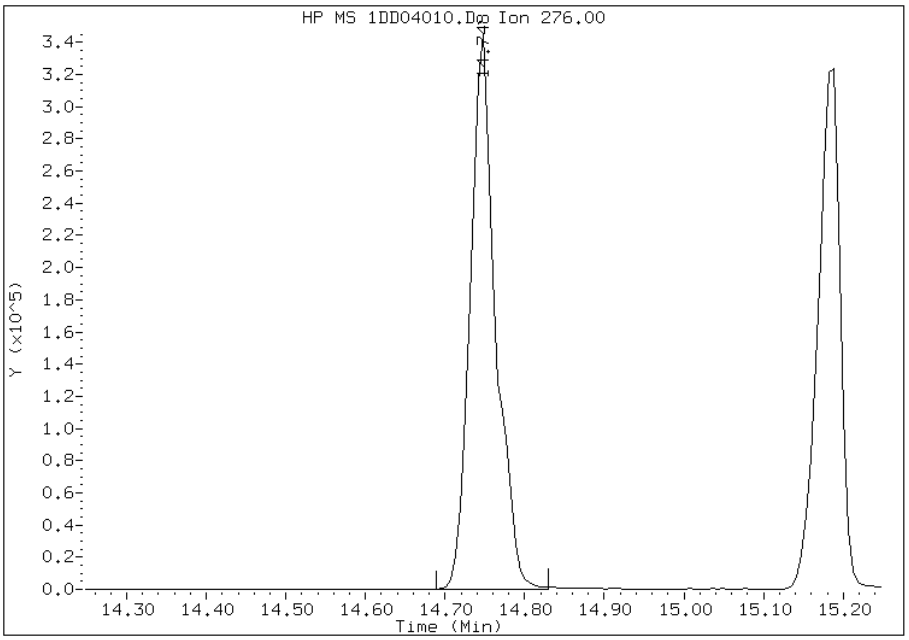
Processing Integration Results

RT: 14.75

Response: 759012

Amount: 10

Conc: 10



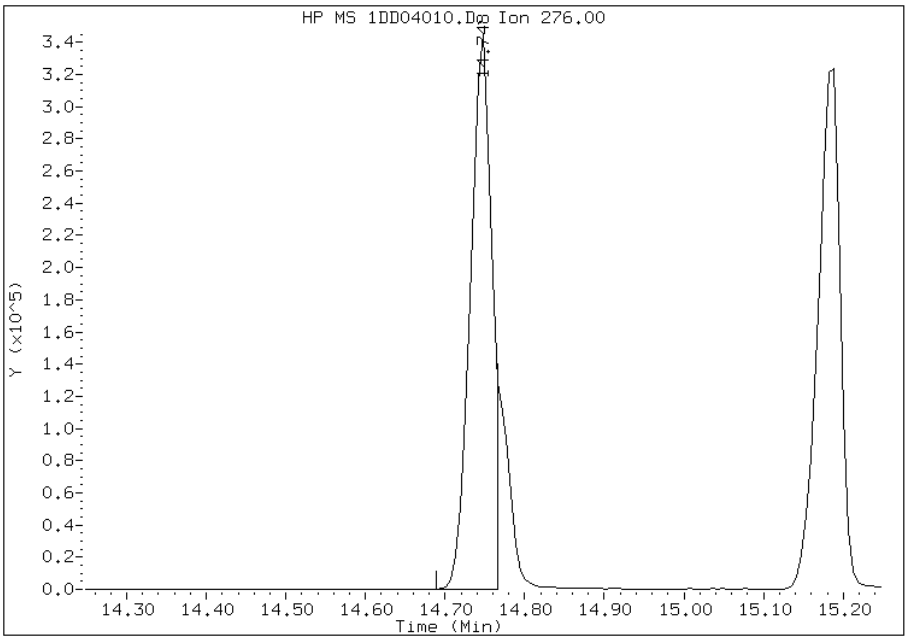
Manual Integration Results

RT: 14.75

Response: 647015

Amount: 10

Conc: 10



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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04011.D
Lab Smp Id: ICIS-1531401
Inj Date : 04-APR-2013 15:19
Operator : SCC 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

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

QC Flag Legend

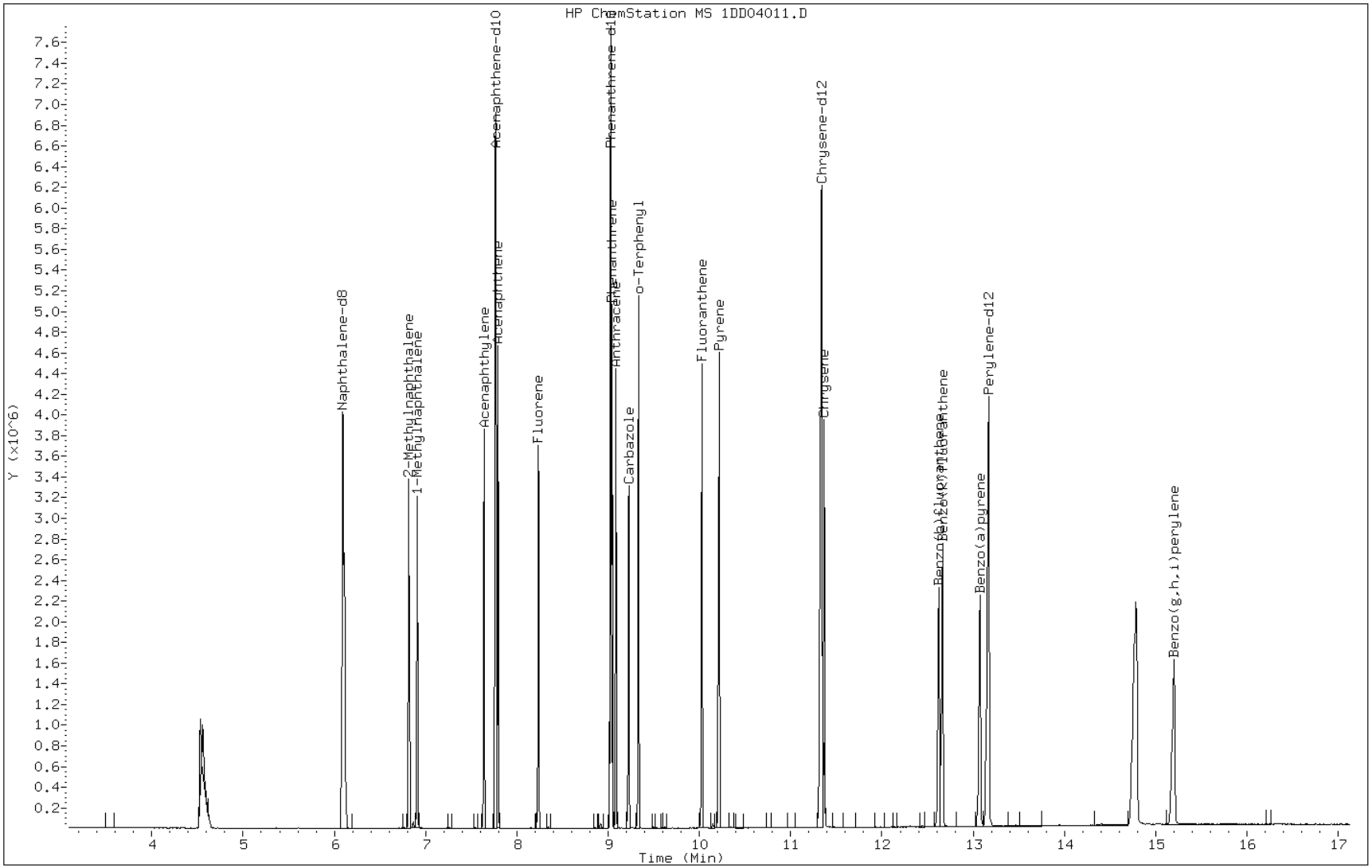
M - Compound response manually integrated.

Data File: 1DD04011.D

Date: 04-APR-2013 15:19

Client ID: Instrument: BSMSD.i

Sample Info: ICIS-1531401 Operator: SCC



Manual Integration Report

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

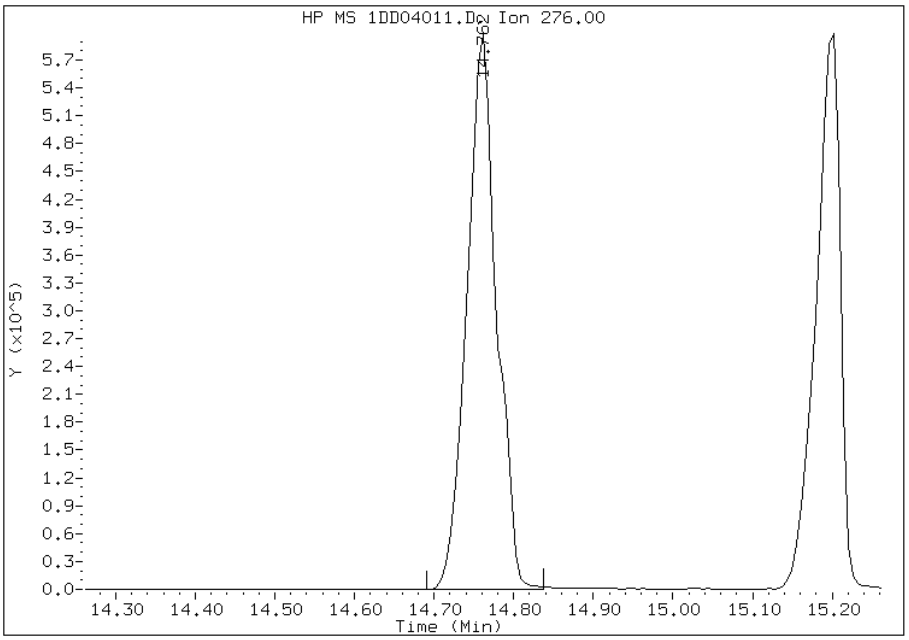
Processing Integration Results

RT: 14.76

Response: 1546230

Amount: 22

Conc: 22



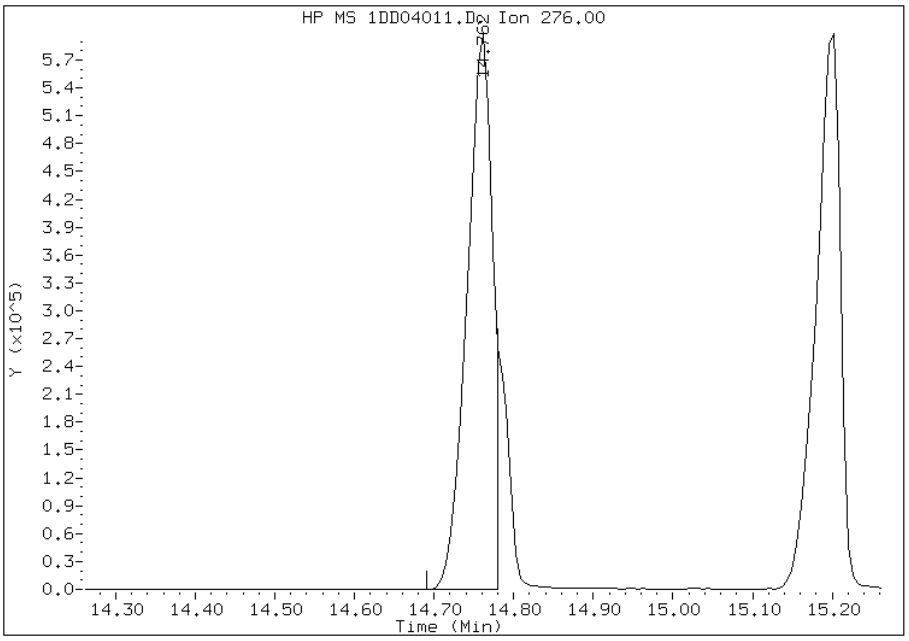
Manual Integration Results

RT: 14.76

Response: 1333044

Amount: 20

Conc: 20



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

TestAmerica Laboratories

Semivolatile 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

		QUANT SIG					AMOUNTS	
	Compounds	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

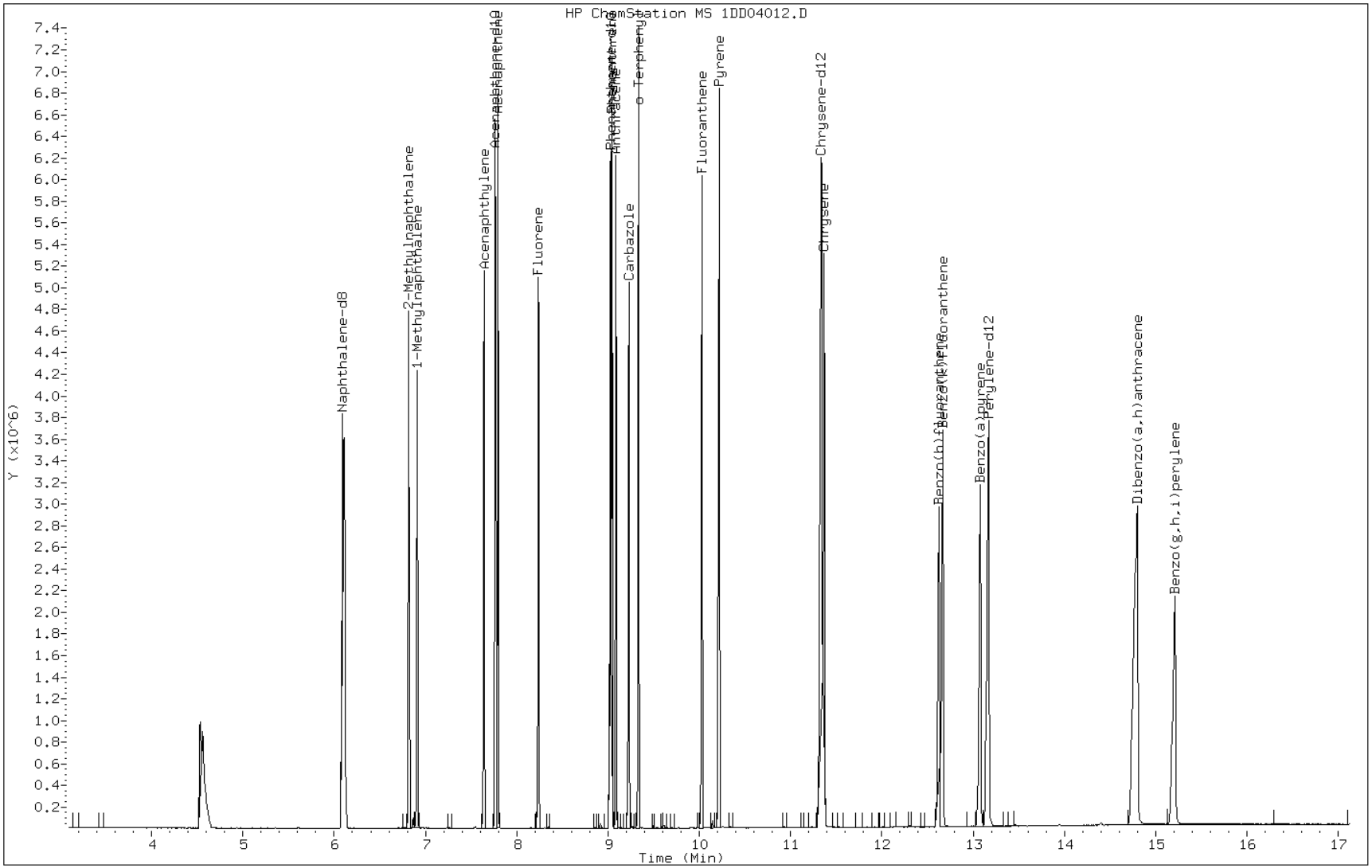
M - Compound response manually integrated.

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

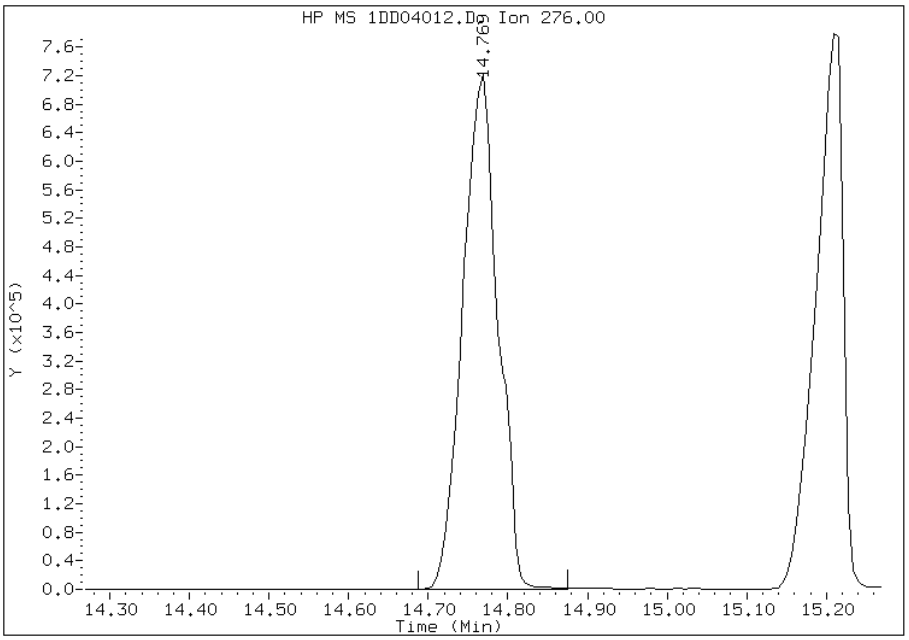
Processing Integration Results

RT: 14.77

Response: 2221522

Amount: 32

Conc: 32



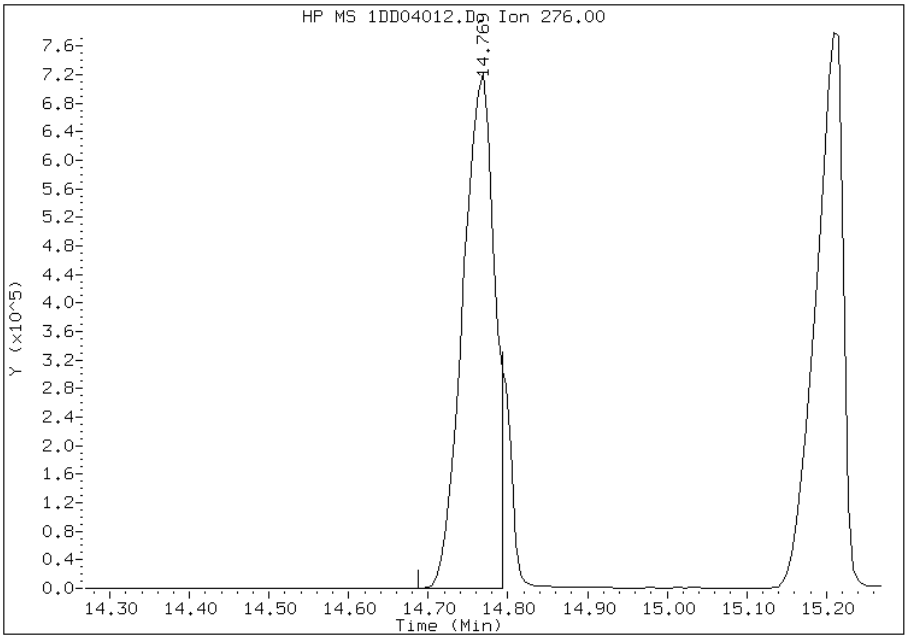
Manual Integration Results

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

		QUANT SIG					AMOUNTS	
	Compounds	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

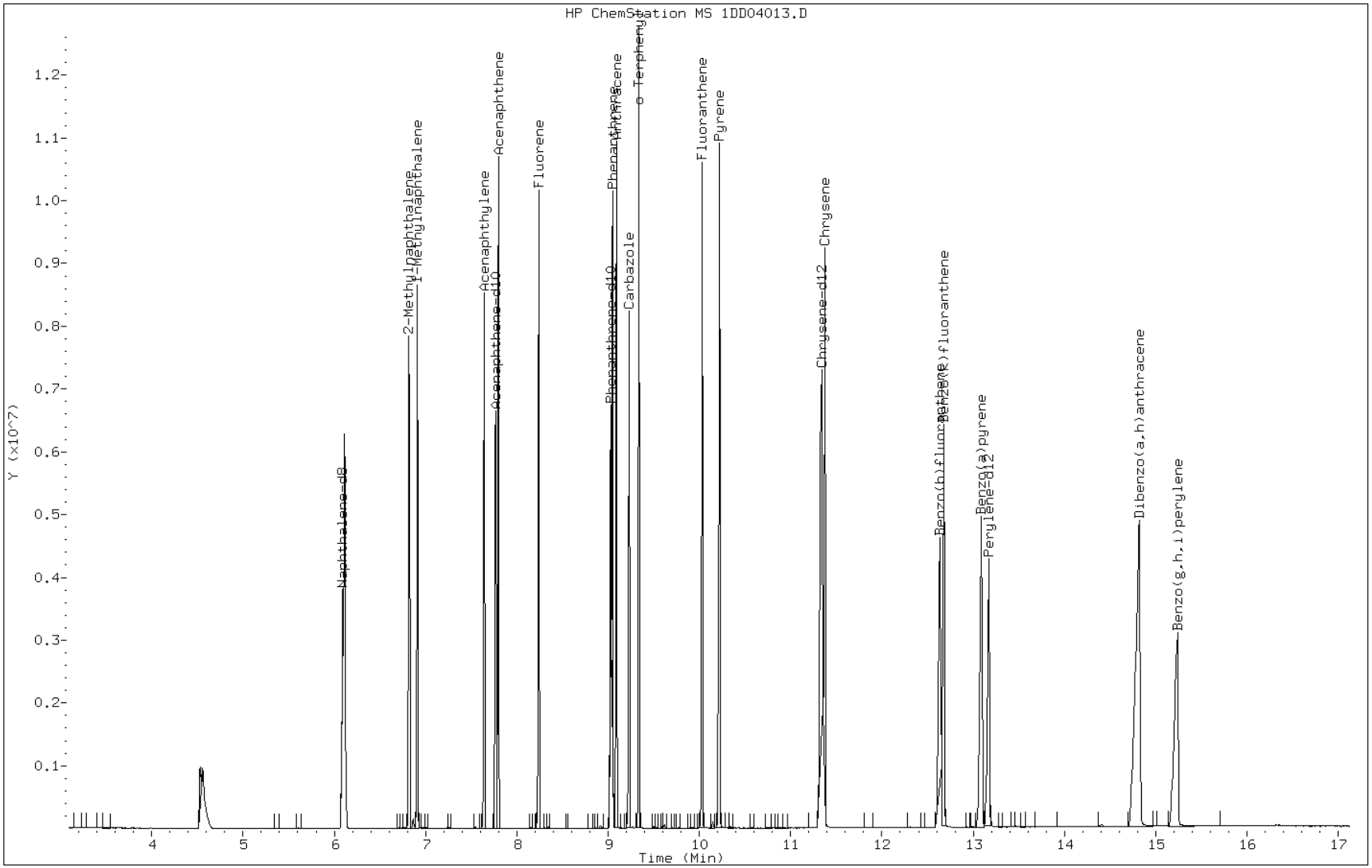
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

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

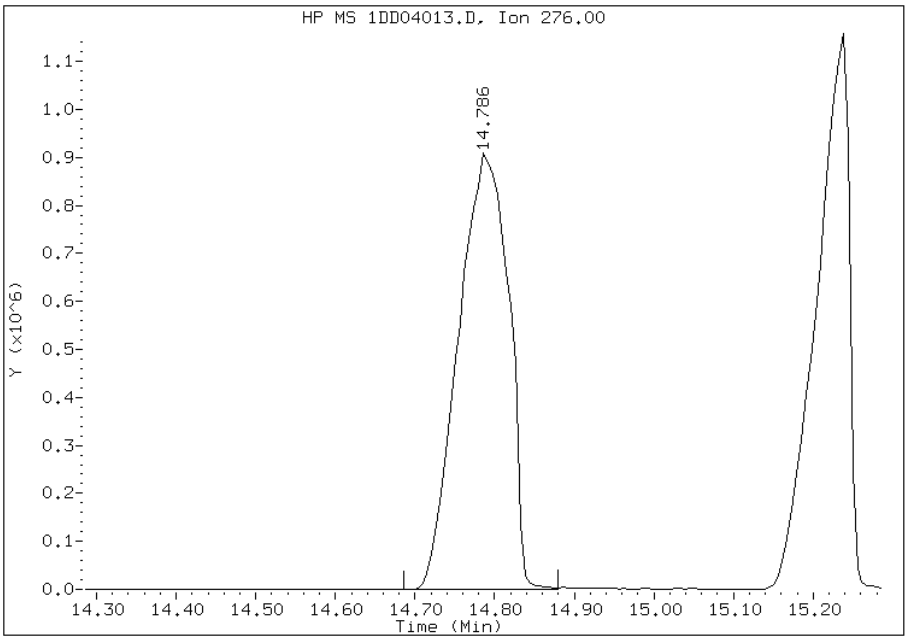
Processing Integration Results

RT: 14.79

Response: 3993028

Amount: 54

Conc: 54



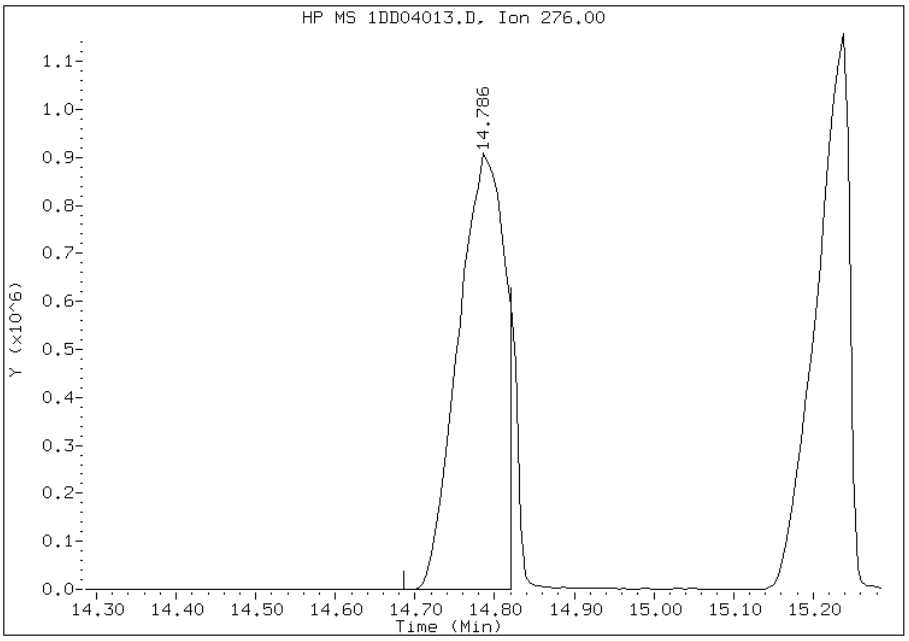
Manual Integration Results

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.: 680-89791-2

SDG No.: 68089791-2

Lab Sample ID: ICV 660-136892/10 Calibration Date: 04/26/2013 11:49

Instrument ID: BSMA5973 Calib Start Date: 04/26/2013 10:03

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/26/2013 11:34

Lab File ID: 1AD26010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.000	1.013	0.0000	20300	20000	1.3	35.0
2-Methylnaphthalene	Ave	0.5733	0.5866	0.0000	20500	20000	2.3	35.0
1-Methylnaphthalene	Ave	0.6351	0.6716	0.0000	21100	20000	5.7	35.0
Acenaphthylene	Ave	2.338	2.056	0.0000	17600	20000	-12.0	35.0
Acenaphthene	Ave	1.226	1.124	0.0000	18300	20000	-8.3	35.0
Fluorene	Ave	1.475	1.361	0.0000	18500	20000	-7.7	35.0
Phenanthrene	Ave	1.159	1.010	0.0000	17400	20000	-12.8	35.0
Anthracene	Ave	1.205	1.090	0.0000	18100	20000	-9.5	35.0
Carbazole	Ave	1.162	0.9708	0.0000	16700	20000	-16.5	35.0
Fluoranthene	Ave	1.338	1.312	0.0000	19600	20000	-1.9	35.0
Pyrene	Ave	1.526	1.466	0.0000	19200	20000	-4.0	35.0
Benzo[a]anthracene	Ave	1.306	1.270	0.0000	19400	20000	-2.8	35.0
Chrysene	Ave	1.325	1.145	0.0000	17300	20000	-13.6	35.0
Benzo[b]fluoranthene	Ave	1.214	1.285	0.0000	21200	20000	5.8	35.0
Benzo[k]fluoranthene	Ave	1.396	1.175	0.0000	16800	20000	-15.8	35.0
Benzo[a]pyrene	Ave	1.208	1.102	0.0000	18200	20000	-8.8	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.141	1.134	0.0000	19900	20000	-0.6	35.0
Dibenz(a,h)anthracene	Ave	1.061	1.182	0.0000	22300	20000	11.3	35.0
Benzo[g,h,i]perylene	Ave	1.277	1.224	0.0000	19200	20000	-4.1	35.0
o-Terphenyl	Ave	0.6543	0.5935	0.0000	18100	20000	-9.3	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26010.D
Lab Smp Id: ICV-1448440
Inj Date : 26-APR-2013 11:49
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
Meth Date : 26-Apr-2013 13:03 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
*	1 Naphthalene-d8	136	2.581	2.581	(1.000)	2252499	40.0000	
*	6 Acenaphthene-d10	164	3.612	3.606	(1.000)	1126401	40.0000	
*	10 Phenanthrene-d10	188	4.563	4.563	(1.000)	2015970	40.0000	
$	14 o-Terphenyl	230	4.863	4.862	(1.066)	598212	18.1419	18.1418
*	18 Chrysene-d12	240	6.583	6.582	(1.000)	1842442	40.0000	
*	23 Perylene-d12	264	7.667	7.666	(1.000)	2029776	40.0000	
	2 Naphthalene	128	2.592	2.591	(1.004)	1140891	20.2617	20.2616
	3 2-Methylnaphthalene	141	2.998	2.997	(1.161)	660618	20.4636	20.4636
	4 1-Methylnaphthalene	142	3.052	3.051	(1.182)	756416	21.1488	21.1487
	5 Acenaphthylene	152	3.522	3.521	(0.975)	1158011	17.5909	17.5909
	7 Acenaphthene	154	3.629	3.628	(1.004)	633033	18.3366	18.3366
	9 Fluorene	166	3.944	3.943	(1.092)	766644	18.4575	18.4574
	11 Phenanthrene	178	4.579	4.579	(1.004)	1018538	17.4411	17.4411
	12 Anthracene	178	4.611	4.611	(1.011)	1099004	18.0989	18.0989
	13 Carbazole	167	4.734	4.739	(1.037)	978595	16.7058	16.7058(M)
	15 Fluoranthene	202	5.439	5.439	(1.192)	1322879	19.6122	19.6122
	16 Pyrene	202	5.605	5.604	(0.851)	1350229	19.2093	19.2092

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/l)
17 Benzo(a)anthracene	228	6.572	6.566	(0.998)	1170041	19.4460	19.4459
19 Chrysene	228	6.604	6.598	(1.003)	1054888	17.2812	17.2812
20 Benzo(b)fluoranthene	252	7.389	7.389	(0.964)	1303989	21.1608	21.1608
21 Benzo(k)fluoranthene	252	7.411	7.410	(0.967)	1192511	16.8313	16.8313
22 Benzo(a)pyrene	252	7.614	7.613	(0.993)	1118521	18.2457	18.2456
24 Indeno(1,2,3-cd)pyrene	276	8.426	8.430	(1.099)	1150730	19.8802	19.8802
25 Dibenzo(a,h)anthracene	278	8.458	8.457	(1.103)	1199380	22.2696	22.2695
26 Benzo(g,h,i)perylene	276	8.650	8.654	(1.128)	1241990	19.1718	19.1717

QC Flag Legend

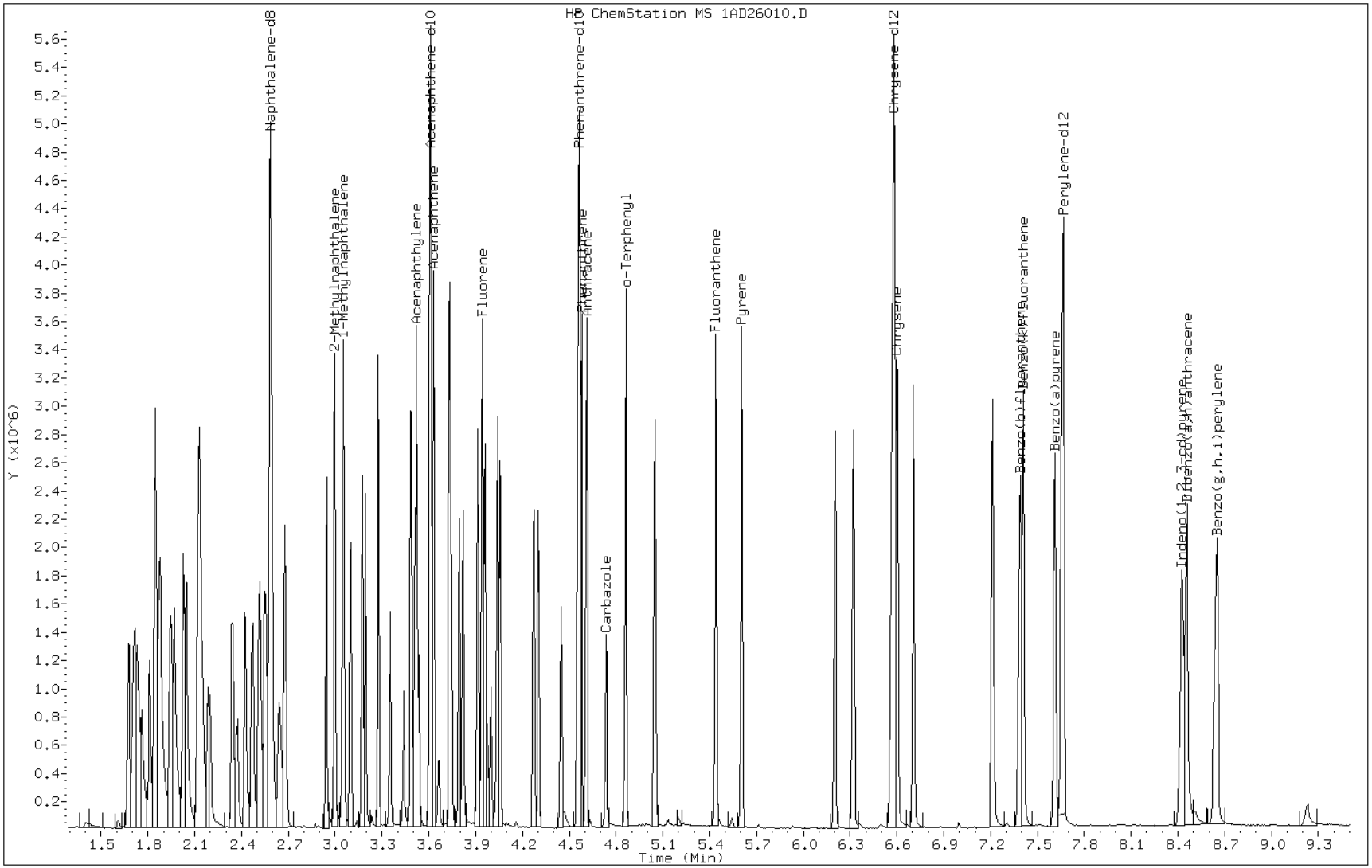
M - Compound response manually integrated.

Data File: 1AD26010.D

Date: 26-APR-2013 11:49

Client ID: Instrument: BSMA5973.i

Sample Info: ICV-1448440 Operator: SCC



Manual Integration Report

Data File: 1AD26010.D
Inj. Date and Time: 26-APR-2013 11:49
Instrument ID: BSMA5973.i
Client ID:
Compound: 13 Carbazole
CAS #: 86-74-8
Report Date: 04/26/2013

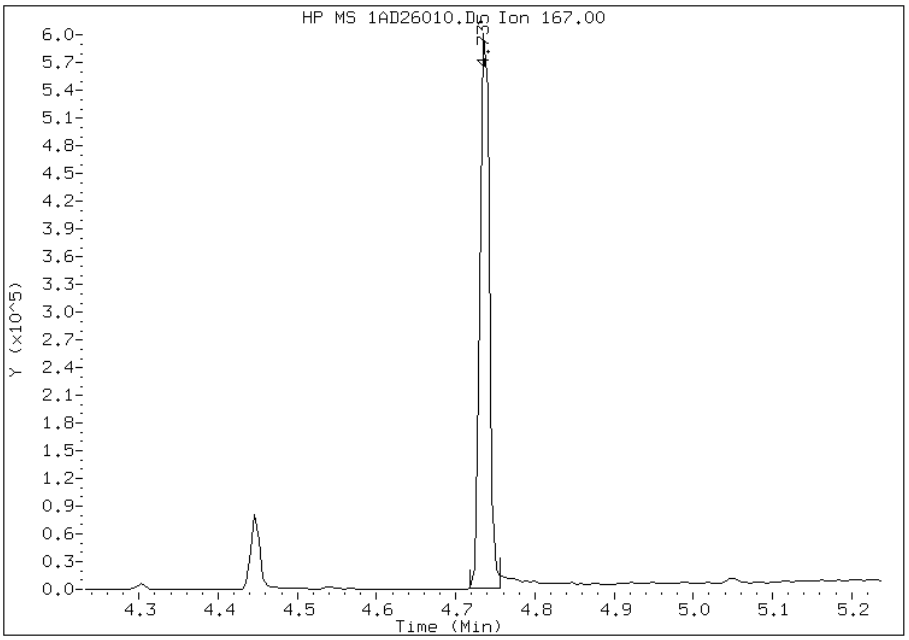
Processing Integration Results

RT: 4.73

Response: 486883

Amount: 8

Conc: 8



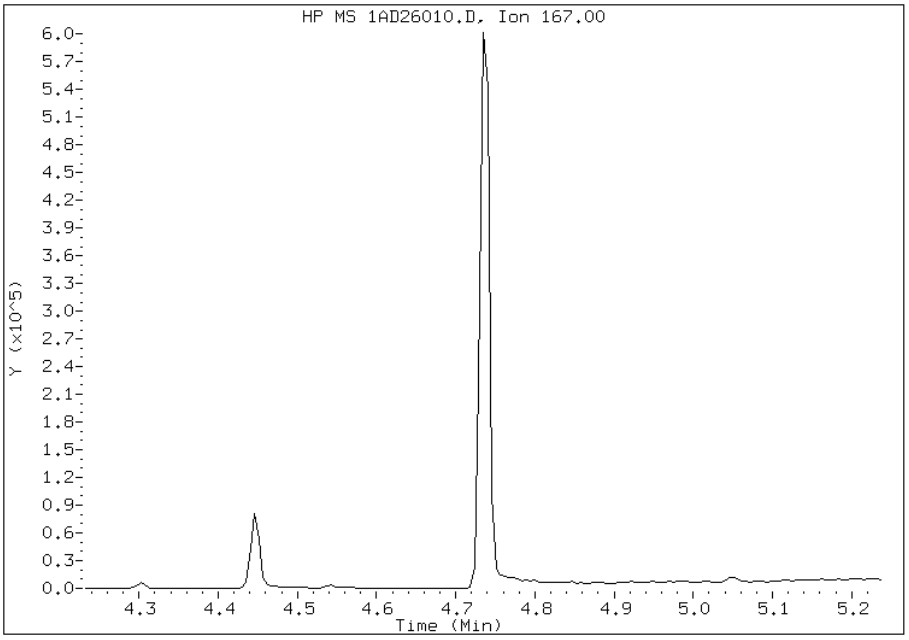
Manual Integration Results

RT: 4.73

Response: 978595

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 13:06
Manual Integration Reason: Baseline Event

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Lab Sample ID: CCVIS 660-137070/7 Calibration Date: 05/02/2013 16:18

Instrument ID: BSMA5973 Calib Start Date: 04/26/2013 10:03

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/26/2013 11:34

Lab File ID: 1AE02006.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.000	0.9604	0.0000	19200	20000	-4.0	20.0
2-Methylnaphthalene	Ave	0.5733	0.5184	0.0000	18100	20000	-9.6	20.0
1-Methylnaphthalene	Ave	0.6351	0.5548	0.0000	17500	20000	-12.7	20.0
Acenaphthylene	Ave	2.338	2.024	0.0000	17300	20000	-13.4	20.0
Acenaphthene	Ave	1.226	1.057	0.0000	17200	20000	-13.8	20.0
Fluorene	Ave	1.475	1.295	0.0000	17600	20000	-12.2	20.0
Phenanthrene	Ave	1.159	0.9899	0.0000	17100	20000	-14.6	20.0
Anthracene	Ave	1.205	1.083	0.0000	18000	20000	-10.1	20.0
Carbazole	Ave	1.162	1.001	0.0000	17200	20000	-13.9	20.0
Fluoranthene	Ave	1.338	1.227	0.0000	18300	20000	-8.3	20.0
Pyrene	Ave	1.526	1.355	0.0000	17800	20000	-11.2	20.0
Benzo[a]anthracene	Ave	1.306	1.148	0.0000	17600	20000	-12.1	20.0
Chrysene	Ave	1.325	1.191	0.0000	18000	20000	-10.1	20.0
Benzo[b]fluoranthene	Ave	1.214	1.194	0.0000	19700	20000	-1.7	20.0
Benzo[k]fluoranthene	Ave	1.396	1.328	0.0000	19000	20000	-4.9	20.0
Benzo[a]pyrene	Ave	1.208	1.153	0.0000	19100	20000	-4.5	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.141	1.083	0.0000	19000	20000	-5.0	20.0
Dibenz(a,h)anthracene	Ave	1.061	0.9689	0.0000	18300	20000	-8.7	20.0
Benzo[g,h,i]perylene	Ave	1.277	1.025	0.0000	16100	20000	-19.7	20.0
o-Terphenyl	Ave	0.6543	0.5890	0.0000	18000	20000	-10.0	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02006.D
Lab Smp Id: CCVIS-1531401
Inj Date : 02-MAY-2013 16:18
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\a-bFASTPAHi-m.m
Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.550	2.550	(1.000)	1450767	40.0000	
*	6 Acenaphthene-d10	164	3.581	3.581	(1.000)	762472	40.0000	
*	10 Phenanthrene-d10	188	4.532	4.532	(1.000)	1434463	40.0000	
$	14 o-Terphenyl	230	4.831	4.831	(1.066)	422477	20.0000	18.0063
*	18 Chrysene-d12	240	6.551	6.551	(1.000)	1367246	40.0000	
*	23 Perylene-d12	264	7.641	7.641	(1.000)	1233398	40.0000	
	2 Naphthalene	128	2.560	2.560	(1.004)	696622	20.0000	19.2085
	3 2-Methylnaphthalene	141	2.972	2.972	(1.165)	376009	20.0000	18.0841
	4 1-Methylnaphthalene	142	3.025	3.025	(1.186)	402437	20.0000	17.4698
	5 Acenaphthylene	152	3.490	3.490	(0.975)	771475	20.0000	17.3127
	7 Acenaphthene	154	3.597	3.597	(1.004)	403016	20.0000	17.2458
	9 Fluorene	166	3.912	3.912	(1.092)	493537	20.0000	17.5536
	11 Phenanthrene	178	4.548	4.548	(1.004)	709960	20.0000	17.0854
	12 Anthracene	178	4.580	4.580	(1.011)	776492	20.0000	17.9715
	13 Carbazole	167	4.713	4.713	(1.040)	717823	20.0000	17.2217
	15 Fluoranthene	202	5.413	5.413	(1.194)	880112	20.0000	18.3374
	16 Pyrene	202	5.579	5.579	(0.852)	926190	20.0000	17.7562
	17 Benzo(a)anthracene	228	6.540	6.540	(0.998)	785024	20.0000	17.5816
	19 Chrysene	228	6.572	6.572	(1.003)	814240	20.0000	17.9749
	20 Benzo(b)fluoranthene	252	7.363	7.363	(0.964)	736527	20.0000	19.6694
	21 Benzo(k)fluoranthene	252	7.384	7.384	(0.966)	819005	20.0000	19.0233
	22 Benzo(a)pyrene	252	7.593	7.593	(0.994)	711256	20.0000	19.0935
	24 Indeno(1,2,3-cd)pyrene	276	8.405	8.405	(1.100)	667992	20.0000	18.9917
	25 Dibenzo(a,h)anthracene	278	8.431	8.431	(1.103)	597492	20.0000	18.2571
	26 Benzo(g,h,i)perylene	276	8.624	8.624	(1.129)	632044	20.0000	16.0559(M)

QC Flag Legend

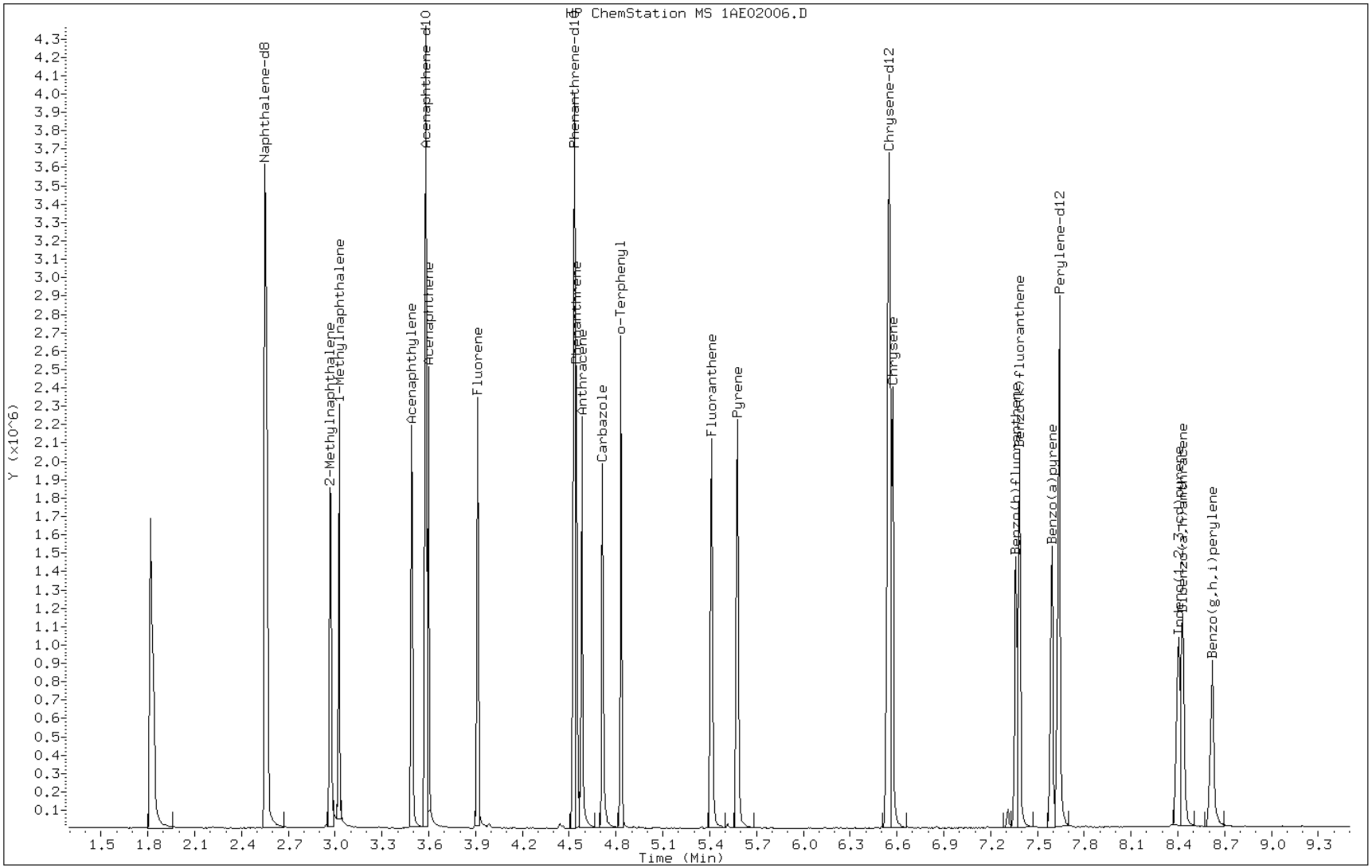
M - Compound response manually integrated.

Data File: 1AE02006.D

Date: 02-MAY-2013 16:18

Client ID: Instrument: BSMA5973.i

Sample Info: CCVIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1AE02006.D
Inj. Date and Time: 02-MAY-2013 16:18
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/03/2013

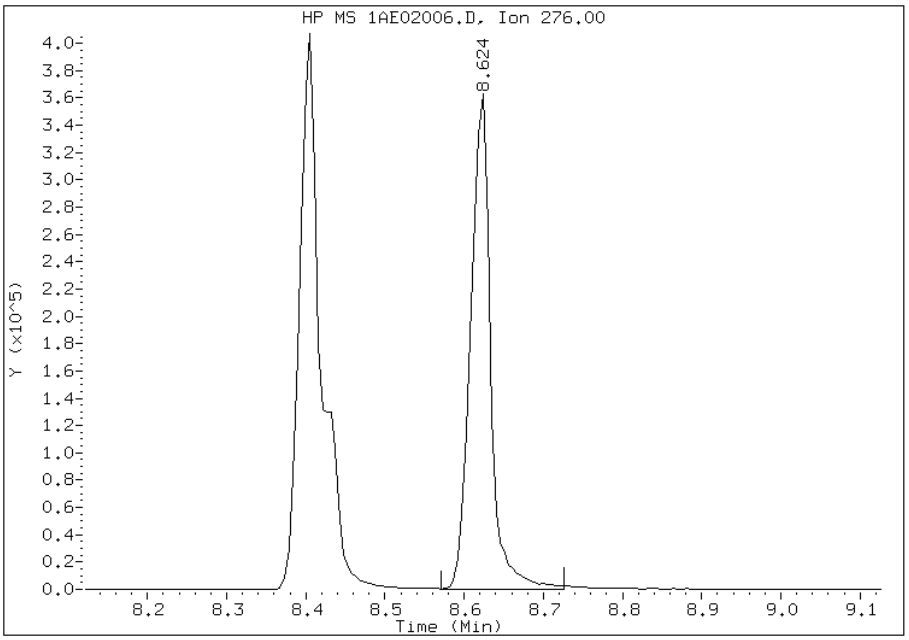
Processing Integration Results

RT: 8.62

Response: 624361

Amount: 16

Conc: 16



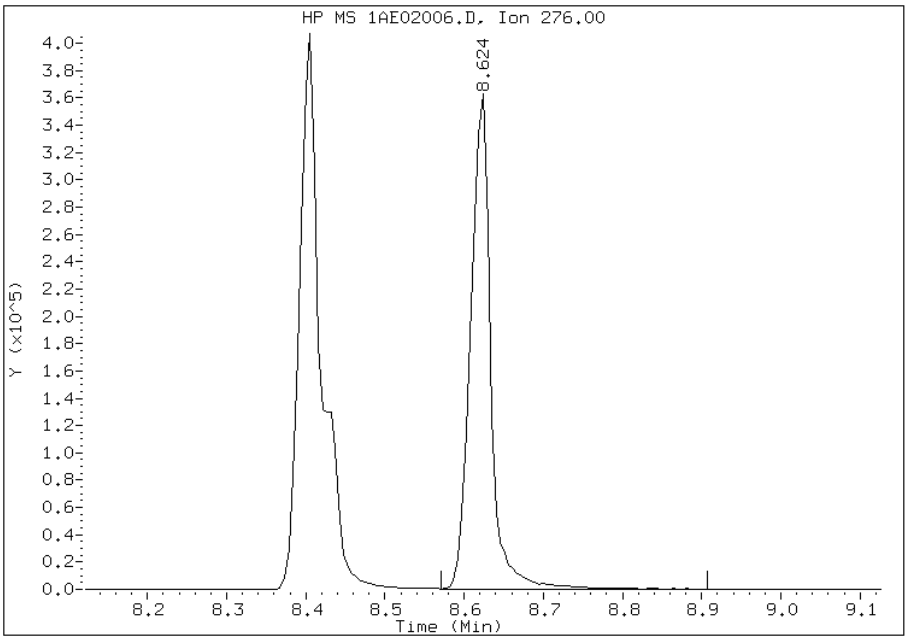
Manual Integration Results

RT: 8.62

Response: 632044

Amount: 16

Conc: 16



Manually Integrated By: cantins
Modification Date: 02-May-2013 16:37
Manual Integration Reason: Baseline Event

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Lab Sample ID: ICV 660-137156/10 Calibration Date: 05/06/2013 12:11

Instrument ID: BSMA5973 Calib Start Date: 05/06/2013 10:40

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 05/06/2013 11:56

Lab File ID: 1AE06010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9420	0.9132	0.0000	19400	20000	-3.0	35.0
2-Methylnaphthalene	Ave	0.4787	0.5082	0.0000	21200	20000	6.2	35.0
1-Methylnaphthalene	Ave	0.5738	0.5870	0.0000	20500	20000	2.3	35.0
Acenaphthylene	Ave	1.880	1.818	0.0000	19300	20000	-3.3	35.0
Acenaphthene	Ave	1.079	0.9701	0.0000	18000	20000	-10.1	35.0
Fluorene	Ave	1.230	1.234	0.0000	20100	20000	0.3	35.0
Phenanthrene	Ave	0.9910	0.9305	0.0000	18800	20000	-6.1	35.0
Anthracene	Ave	1.056	1.004	0.0000	19000	20000	-4.9	35.0
Carbazole	Ave	0.9491	0.6514	0.0000	13700	20000	-31.4	35.0
Fluoranthene	Ave	1.140	1.161	0.0000	20400	20000	1.8	35.0
Pyrene	Ave	1.286	1.285	0.0000	20000	20000	-0.0	35.0
Benzo[a]anthracene	Ave	1.124	1.106	0.0000	19700	20000	-1.6	35.0
Chrysene	Ave	1.265	1.095	0.0000	17300	20000	-13.4	35.0
Benzo[b]fluoranthene	Ave	1.057	1.019	0.0000	19300	20000	-3.6	35.0
Benzo[k]fluoranthene	Ave	1.312	1.220	0.0000	18600	20000	-7.0	35.0
Benzo[a]pyrene	Ave	1.086	0.9512	0.0000	17500	20000	-12.4	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.9096	0.9397	0.0000	20700	20000	3.3	35.0
Dibenz(a,h)anthracene	Ave	0.9324	1.016	0.0000	21800	20000	8.9	35.0
Benzo[g,h,i]perylene	Ave	0.9782	0.9691	0.0000	19800	20000	-0.9	35.0
o-Terphenyl	Ave	0.5725	0.5431	0.0000	19000	20000	-5.1	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06010.D
Lab Smp Id: ICV-1448440
Inj Date : 06-MAY-2013 12:11
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
*	1 Naphthalene-d8	136	2.545	2.544	(1.000)	1358957	40.0000	
*	6 Acenaphthene-d10	164	3.576	3.575	(1.000)	723354	40.0000	
*	10 Phenanthrene-d10	188	4.522	4.521	(1.000)	1301827	40.0000	
$	14 o-Terphenyl	230	4.821	4.820	(1.066)	353505	18.9730	18.9730
*	18 Chrysene-d12	240	6.536	6.535	(1.000)	1182962	40.0000	
*	23 Perylene-d12	264	7.620	7.630	(1.000)	1130799	40.0000	
	2 Naphthalene	128	2.556	2.555	(1.004)	620525	19.3900	19.3900
	3 2-Methylnaphthalene	141	2.962	2.961	(1.164)	345301	21.2310	21.2309
	4 1-Methylnaphthalene	142	3.015	3.014	(1.185)	398822	20.4584	20.4584
	5 Acenaphthylene	152	3.485	3.484	(0.975)	657440	19.3423	19.3423
	7 Acenaphthene	154	3.592	3.591	(1.004)	350866	17.9750	17.9750
	9 Fluorene	166	3.902	3.901	(1.091)	446292	20.0628	20.0627
	11 Phenanthrene	178	4.533	4.537	(1.002)	605646	18.7787	18.7787
	12 Anthracene	178	4.570	4.569	(1.011)	653401	19.0188	19.0188
	13 Carbazole	167	4.698	4.702	(1.039)	424026	13.7271	13.7271
	15 Fluoranthene	202	5.398	5.397	(1.194)	755565	20.3641	20.3641
	16 Pyrene	202	5.564	5.562	(0.851)	760119	19.9900	19.9900

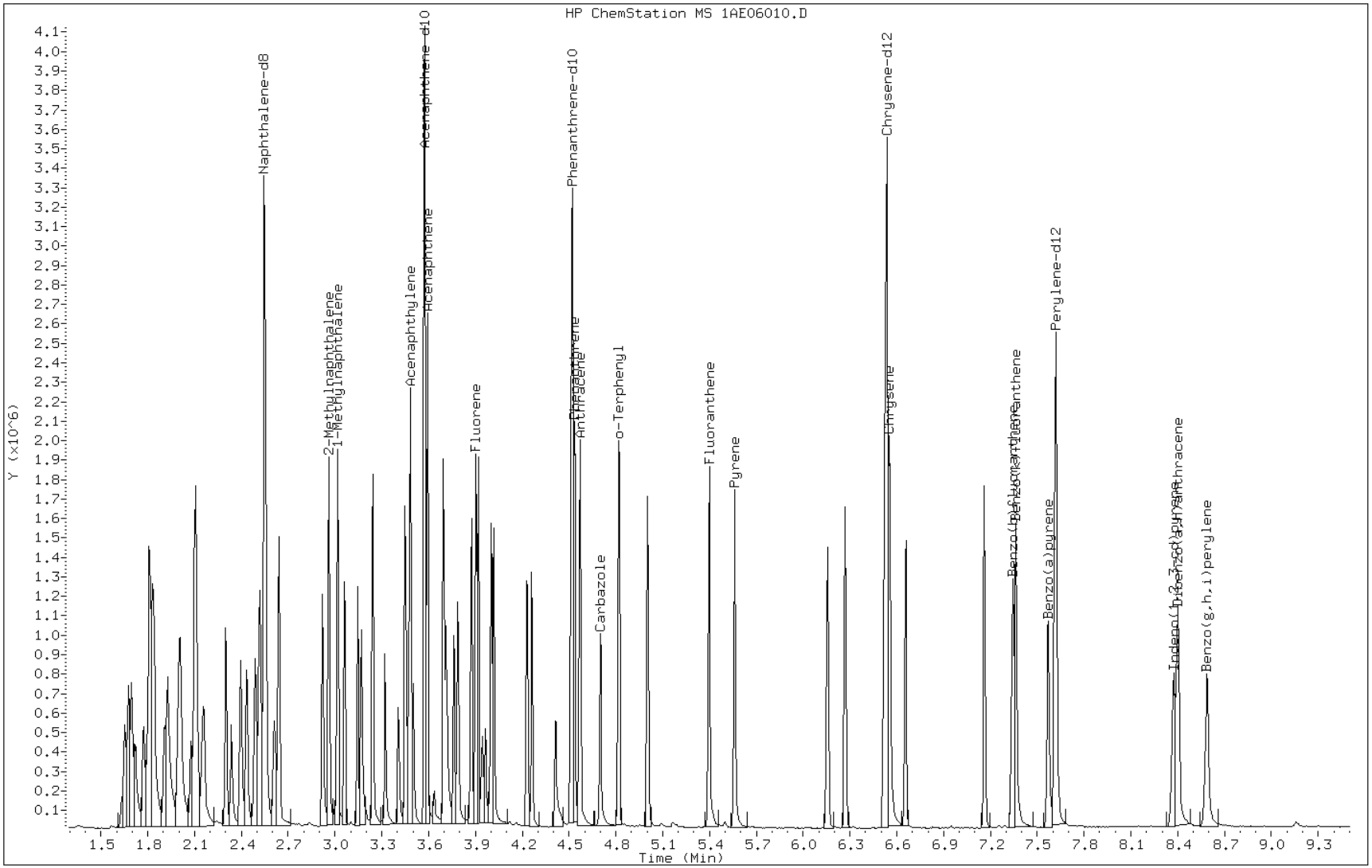
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/l)
17 Benzo(a)anthracene	228	6.525	6.524	(0.998)	654156	19.6760	19.6760
19 Chrysene	228	6.557	6.551	(1.003)	647722	17.3155	17.3155
20 Benzo(b)fluoranthene	252	7.343	7.347	(0.964)	576037	19.2726	19.2725
21 Benzo(k)fluoranthene	252	7.364	7.368	(0.966)	689550	18.5964	18.5963
22 Benzo(a)pyrene	252	7.572	7.576	(0.994)	537816	17.5209	17.5208
24 Indeno(1,2,3-cd)pyrene	276	8.374	8.388	(1.099)	531307	20.6612	20.6611
25 Dibenzo(a,h)anthracene	278	8.400	8.414	(1.102)	574250	21.7852	21.7851
26 Benzo(g,h,i)perylene	276	8.593	8.602	(1.128)	547940	19.8150	19.8150

Data File: 1AE06010.D

Date: 06-MAY-2013 12:11

Client ID: Instrument: BSMA5973.i

Sample Info: ICV-1448440 Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Lab Sample ID: ICV 660-136164/22 Calibration Date: 04/04/2013 16:27

Instrument ID: BSMD5973 Calib Start Date: 04/04/2013 13:49

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/04/2013 16:04

Lab File ID: 1DD04014.D Conc. Units: ug/Kg

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04014.D
Lab Smp Id: ICV-1448440
Inj Date : 04-APR-2013 16:27
Operator : SCC 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 MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS 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

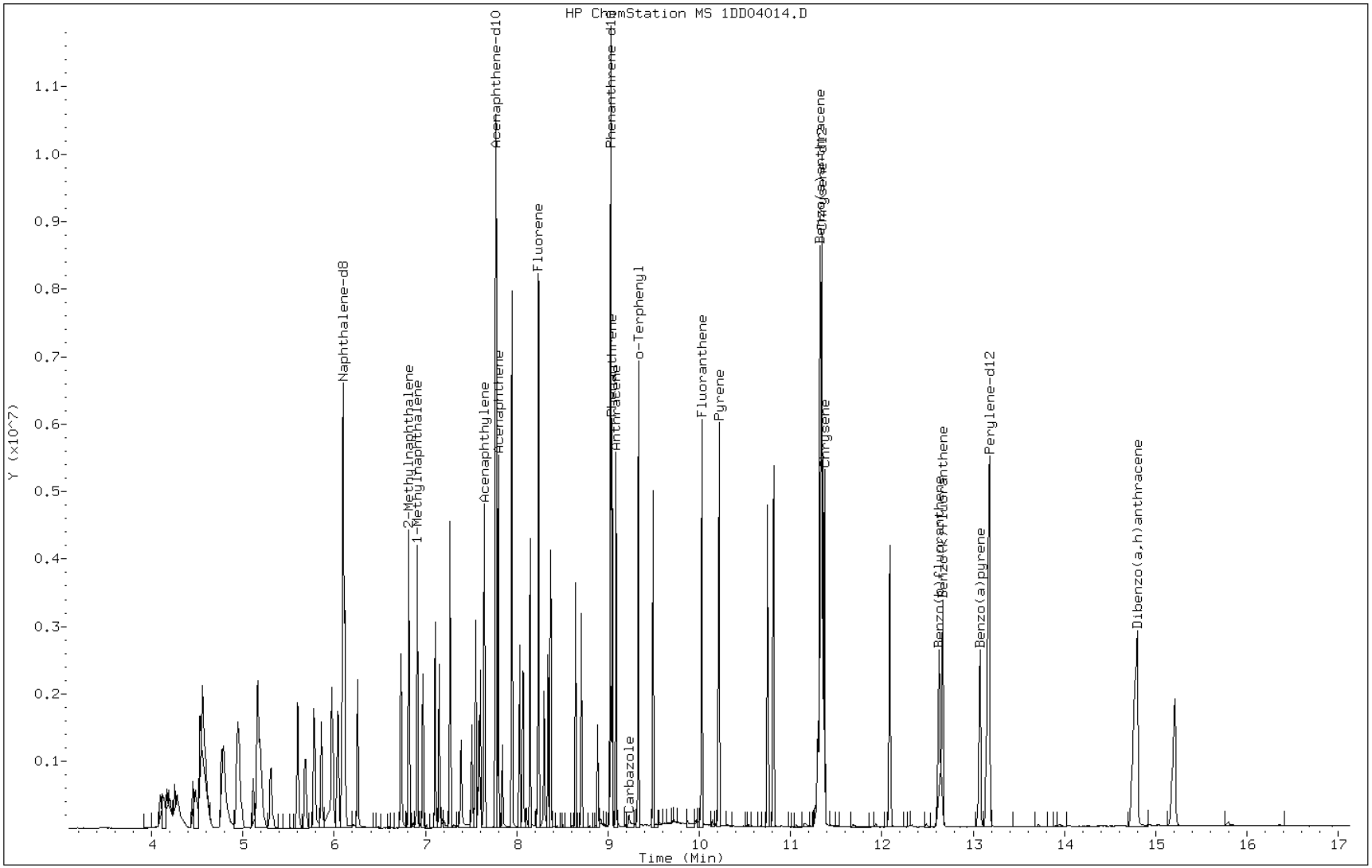
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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: BSMSD.i
Client ID:
Compound: 12 Carbazole
CAS #: 86-74-8
Report Date: 04/05/2013

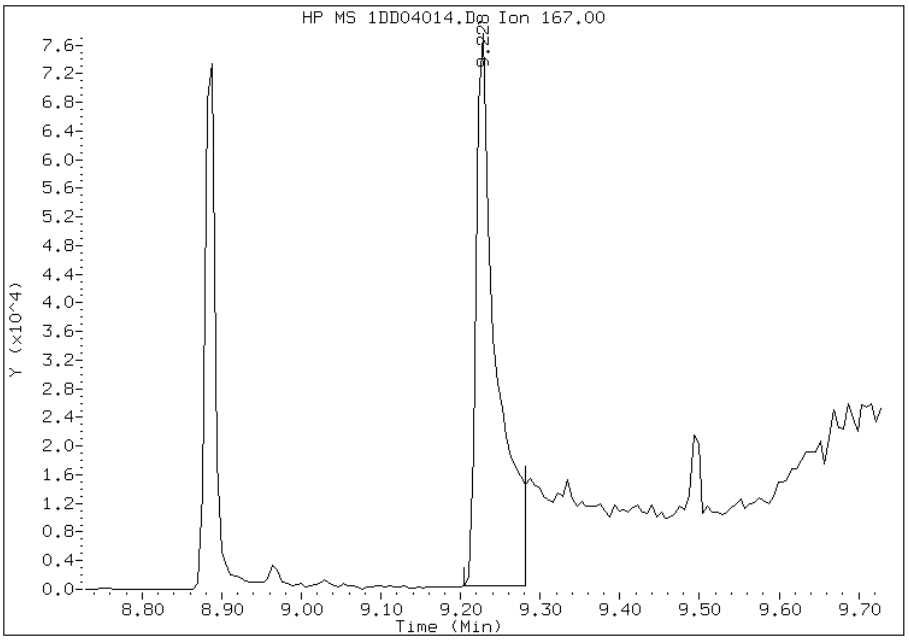
Processing Integration Results

RT: 9.23

Response: 136620

Amount: 1

Conc: 1



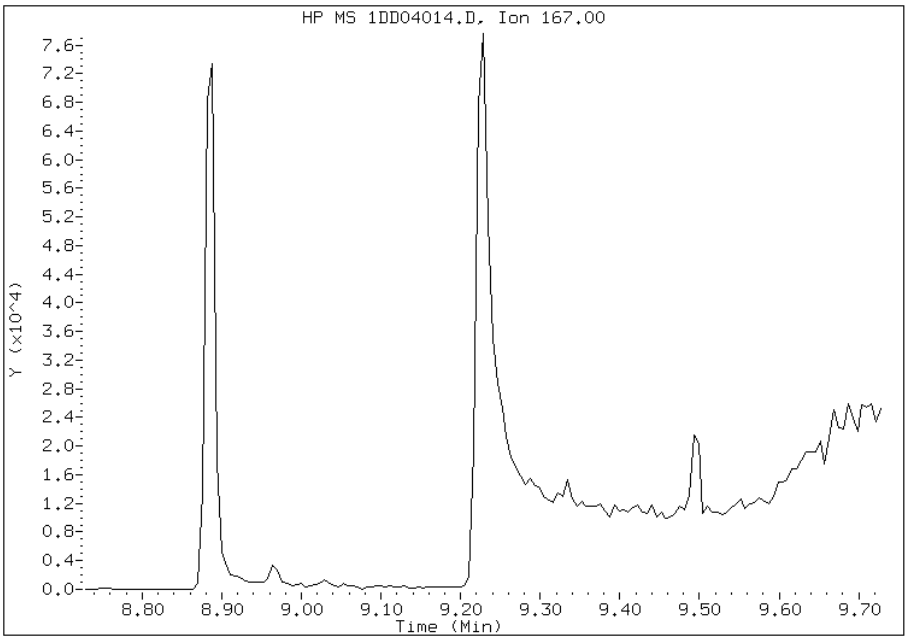
Manual Integration Results

RT: 9.23

Response: 1319041

Amount: 14

Conc: 14



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

Manual Integration Report

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

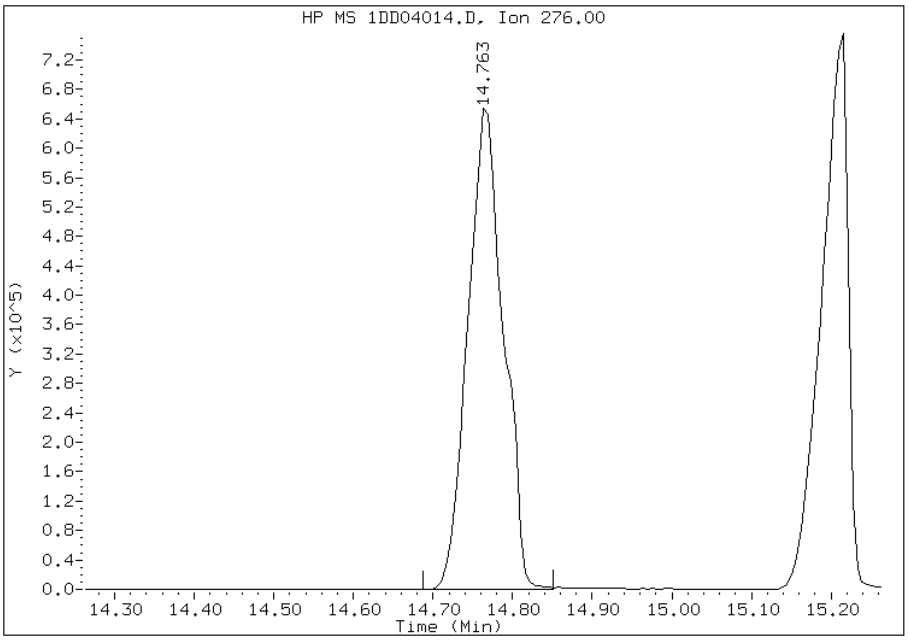
Processing Integration Results

RT: 14.76

Response: 2024721

Amount: 19

Conc: 19



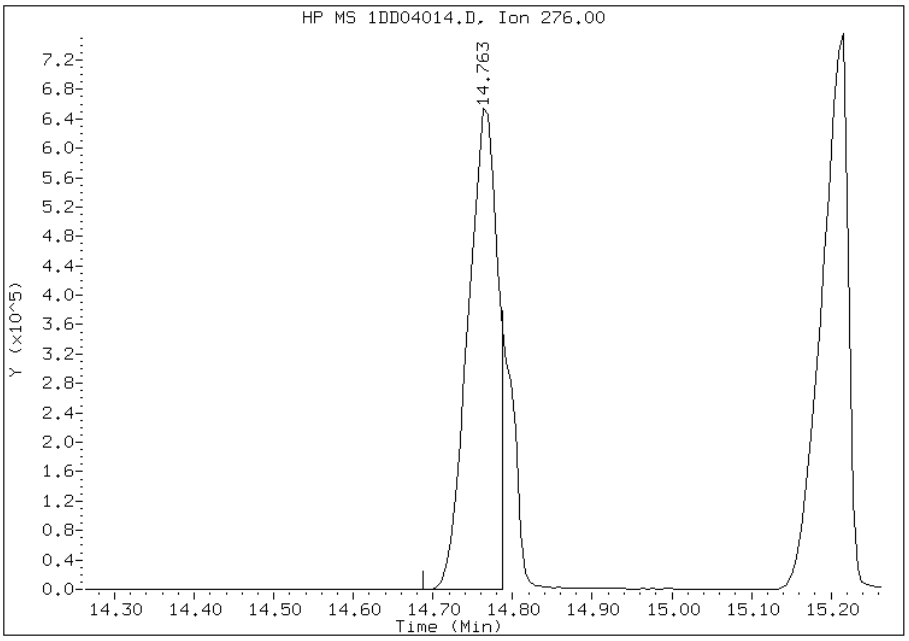
Manual Integration Results

RT: 14.76

Response: 1694283

Amount: 16

Conc: 16



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

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Lab Sample ID: CCVIS 660-137126/3 Calibration Date: 05/03/2013 10:32

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: 1DE03003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9942	0.9859	0.0000	19800	20000	-0.8	20.0
2-Methylnaphthalene	Ave	0.6418	0.6200	0.0000	19300	20000	-3.4	20.0
1-Methylnaphthalene	Ave	0.6061	0.6566	0.0000	21700	20000	8.3	20.0
Acenaphthylene	Ave	1.693	1.659	0.0000	19600	20000	-2.0	20.0
Acenaphthene	Ave	1.045	1.005	0.0000	19200	20000	-3.8	20.0
Fluorene	Ave	1.238	1.185	0.0000	19200	20000	-4.2	20.0
Phenanthrene	Ave	1.102	1.011	0.0000	18300	20000	-8.3	20.0
Anthracene	Ave	1.094	1.110	0.0000	20300	20000	1.5	20.0
Carbazole	Ave	0.9646	0.8703	0.0000	18000	20000	-9.8	20.0
Fluoranthene	Ave	1.134	1.103	0.0000	19500	20000	-2.7	20.0
Pyrene	Ave	1.201	1.178	0.0000	19600	20000	-2.0	20.0
Benzo[a]anthracene	Ave	1.156	0.999	0.0000	17300	20000	-13.6	20.0
Chrysene	Ave	1.084	1.079	0.0000	19900	20000	-0.5	20.0
Benzo[b]fluoranthene	Ave	0.999	0.8703	0.0000	17400	20000	-12.9	20.0
Benzo[k]fluoranthene	Ave	1.053	1.206	0.0000	22900	20000	14.6	20.0
Benzo[a]pyrene	Ave	1.004	0.9877	0.0000	19700	20000	-1.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.071	0.8931	0.0000	16700	20000	-16.6	20.0
Dibenz(a,h)anthracene	Ave	1.008	1.012	0.0000	20100	20000	0.4	20.0
Benzo[g,h,i]perylene	Ave	1.031	0.9809	0.0000	19000	20000	-4.8	20.0
o-Terphenyl	Ave	0.6027	0.5950	0.0000	19700	20000	-1.3	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D050313.b\1DE03003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 03-MAY-2013 10:32
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D050313.b\dFASTPAHi.m
Meth Date : 03-May-2013 10:55 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 4 Continuing Calibration Sample
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	6.004	6.004	(1.000)	1493654	40.0000	(H)
*	6 Acenaphthene-d10	164	7.690	7.690	(1.000)	955216	40.0000	(H)
*	9 Phenanthrene-d10	188	8.953	8.953	(1.000)	1664161	40.0000	(H)
$	13 o-Terphenyl	230	9.259	9.259	(1.034)	495091	20.0000	20(H)
*	17 Chrysene-d12	240	11.257	11.257	(1.000)	1669769	40.0000	(H)
*	22 Perylene-d12	264	13.066	13.066	(1.000)	1568187	40.0000	(H)
	2 Naphthalene	128	6.027	6.027	(1.004)	736328	20.0000	20(MH)
	3 2-Methylnaphthalene	142	6.738	6.738	(1.122)	463013	20.0000	19(H)
	4 1-Methylnaphthalene	142	6.826	6.826	(1.137)	490343	20.0000	22(H)
	5 Acenaphthylene	152	7.561	7.561	(0.983)	792215	20.0000	20(H)
	7 Acenaphthene	154	7.714	7.714	(1.003)	479910	20.0000	19(H)
	8 Fluorene	166	8.160	8.160	(1.061)	566151	20.0000	19(H)
	10 Phenanthrene	178	8.971	8.971	(1.002)	841140	20.0000	18(H)
	11 Anthracene	178	9.012	9.012	(1.007)	923612	20.0000	20(H)
	12 Carbazole	167	9.159	9.159	(1.023)	724193	20.0000	18(H)
	14 Fluoranthene	202	9.958	9.958	(1.112)	917921	20.0000	19(H)
	15 Pyrene	202	10.146	10.146	(0.901)	983207	20.0000	20(H)
	16 Benzo(a)anthracene	228	11.239	11.239	(0.998)	833743	20.0000	17(H)
	18 Chrysene	228	11.280	11.280	(1.002)	900632	20.0000	20(H)
	19 Benzo(b)fluoranthene	252	12.526	12.526	(0.959)	682359	20.0000	17(H)
	20 Benzo(k)fluoranthene	252	12.567	12.567	(0.962)	945538	20.0000	23(H)
	21 Benzo(a)pyrene	252	12.978	12.978	(0.993)	774413	20.0000	20(H)
	23 Indeno(1,2,3-cd)pyrene	276	14.647	14.647	(1.121)	700304	20.0000	17(MH)
	24 Dibenzo(a,h)anthracene	278	14.670	14.670	(1.123)	793588	20.0000	20(MH)
	25 Benzo(g,h,i)perylene	276	15.081	15.081	(1.154)	769083	20.0000	19(MH)

QC Flag Legend

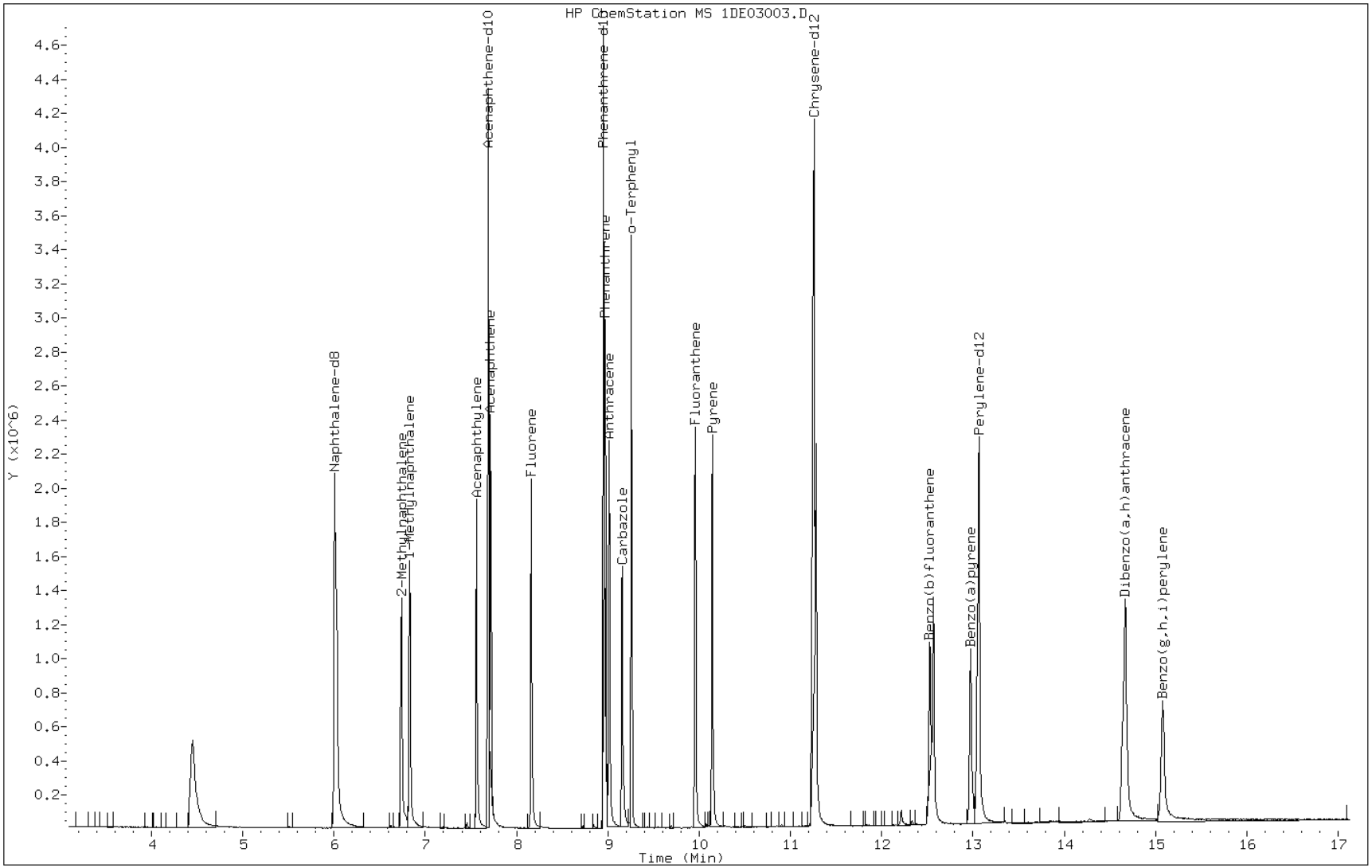
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DE03003.D

Date: 03-MAY-2013 10:32

Client ID: Instrument: BSMSD.i

Sample Info: CCVIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1DE03003.D
Inj. Date and Time: 03-MAY-2013 10:32
Instrument ID: BSMSD.i
Client ID:
Compound: 2 Naphthalene
CAS #: 91-20-3
Report Date: 05/05/2013

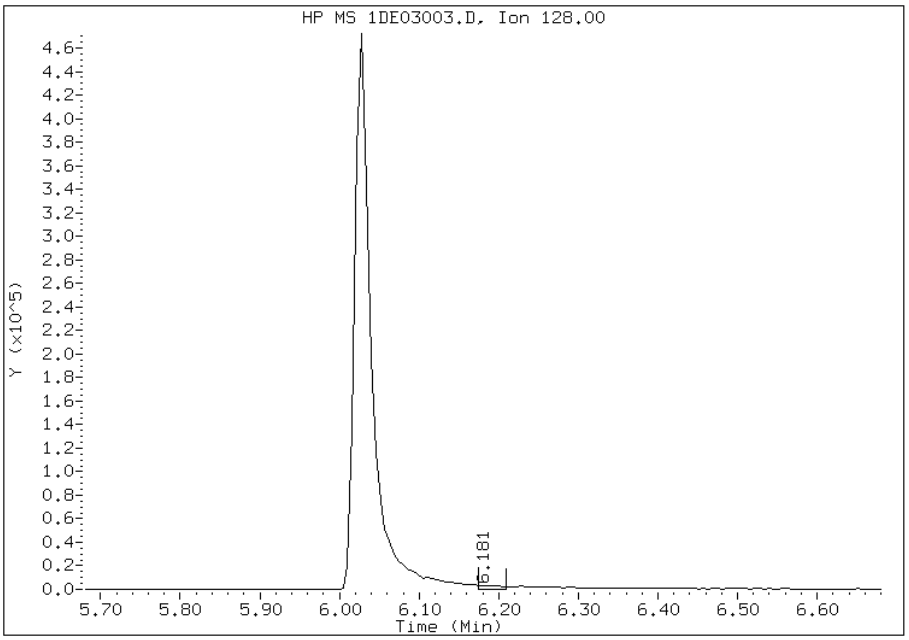
Processing Integration Results

RT: 6.18

Response: 7050

Amount: 0

Conc: 0



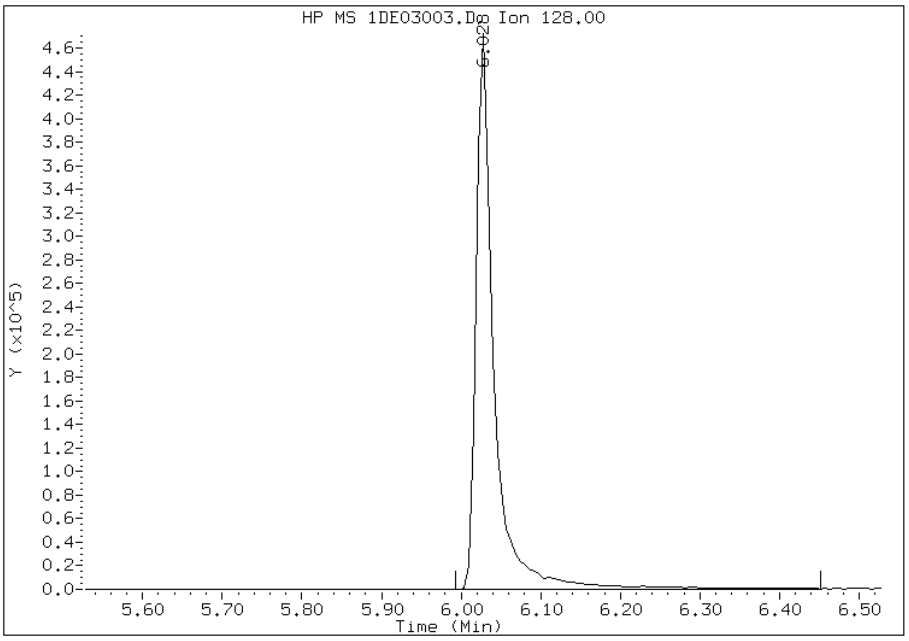
Manual Integration Results

RT: 6.03

Response: 736328

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 03-May-2013 10:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03003.D
Inj. Date and Time: 03-MAY-2013 10:32
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/05/2013

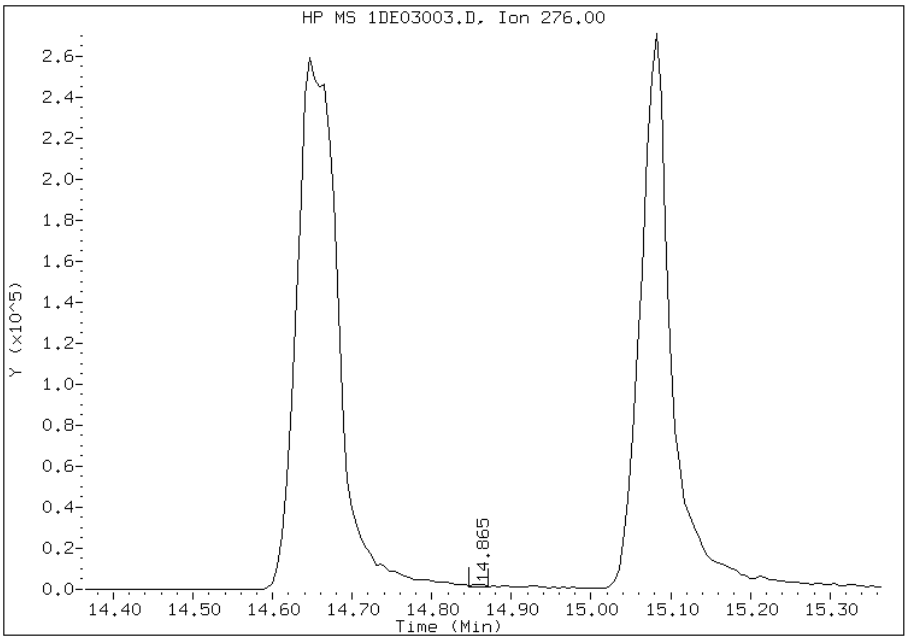
Processing Integration Results

RT: 14.86

Response: 1186

Amount: 0

Conc: 0



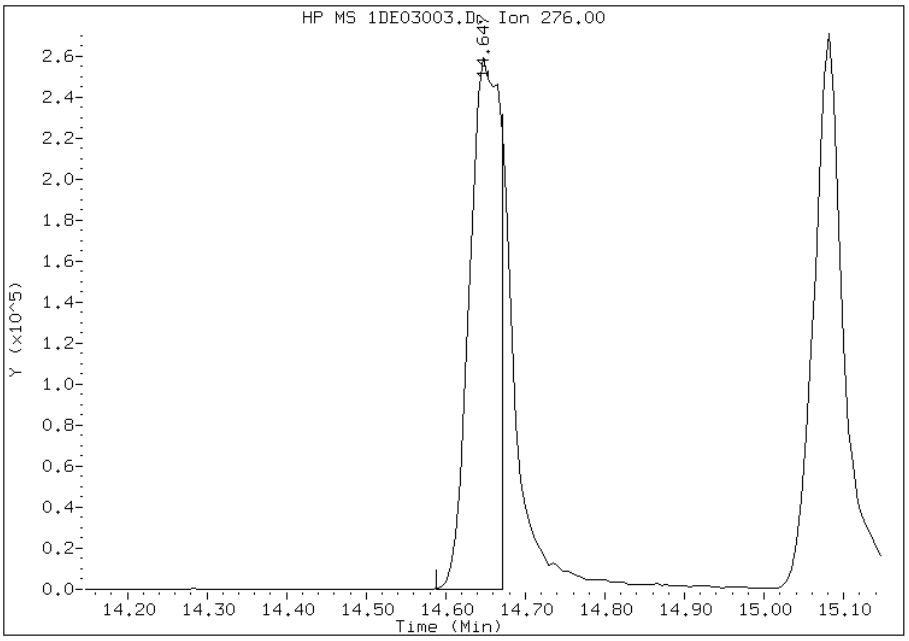
Manual Integration Results

RT: 14.65

Response: 700304

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 03-May-2013 10:58
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03003.D
Inj. Date and Time: 03-MAY-2013 10:32
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/05/2013

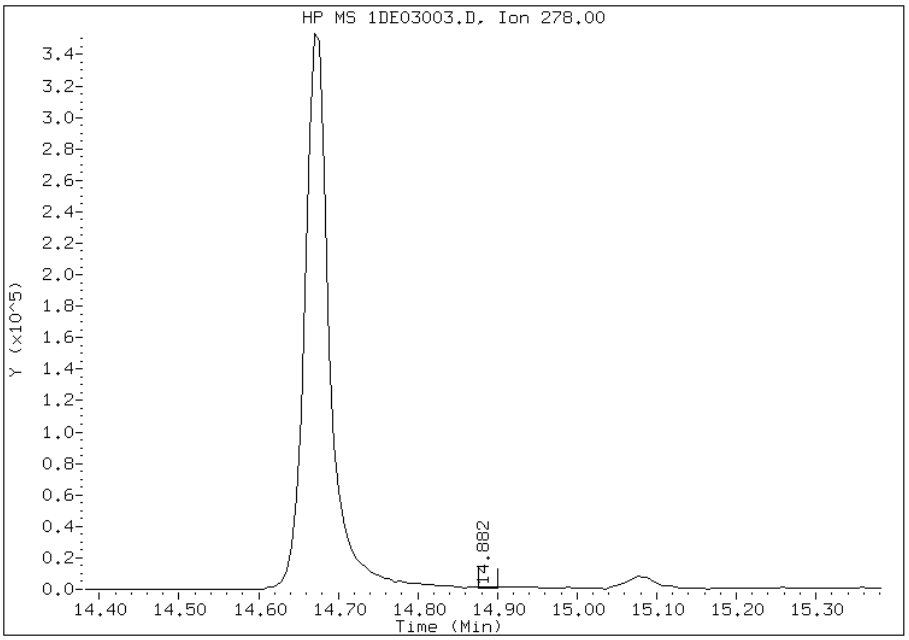
Processing Integration Results

RT: 14.88

Response: 809

Amount: 0

Conc: 0



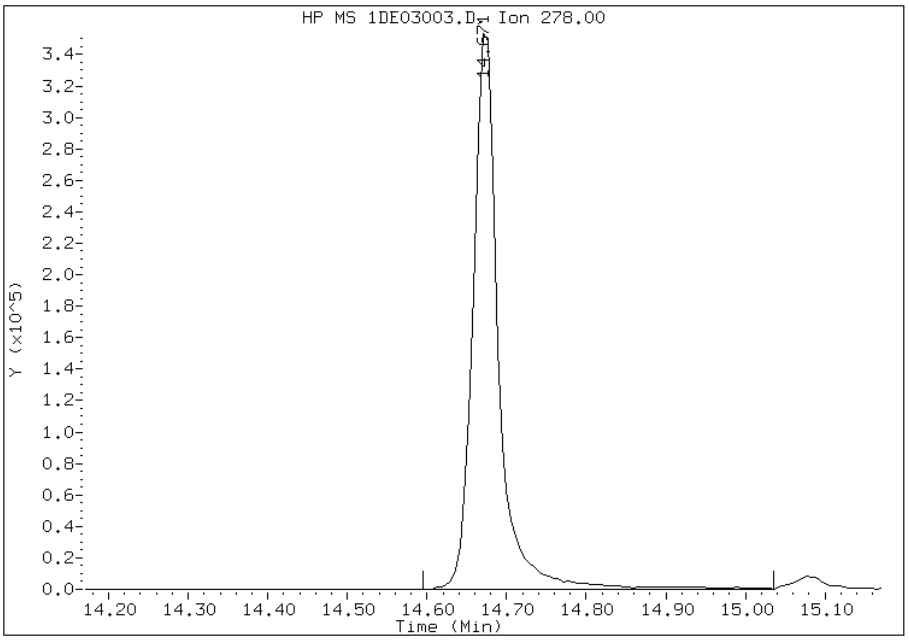
Manual Integration Results

RT: 14.67

Response: 793588

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 03-May-2013 10:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03003.D
Inj. Date and Time: 03-MAY-2013 10:32
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/05/2013

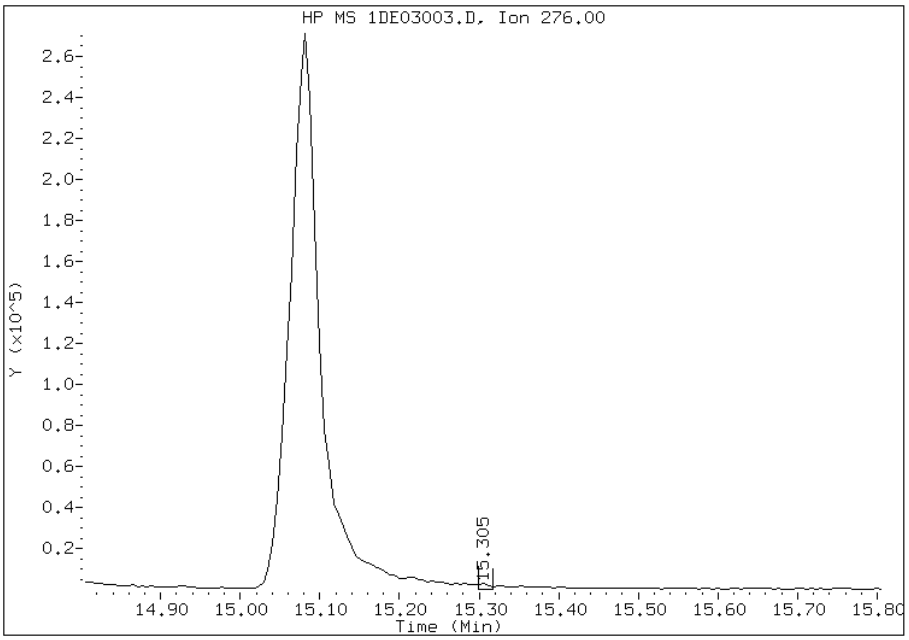
Processing Integration Results

RT: 15.31

Response: 2702

Amount: 0

Conc: 0



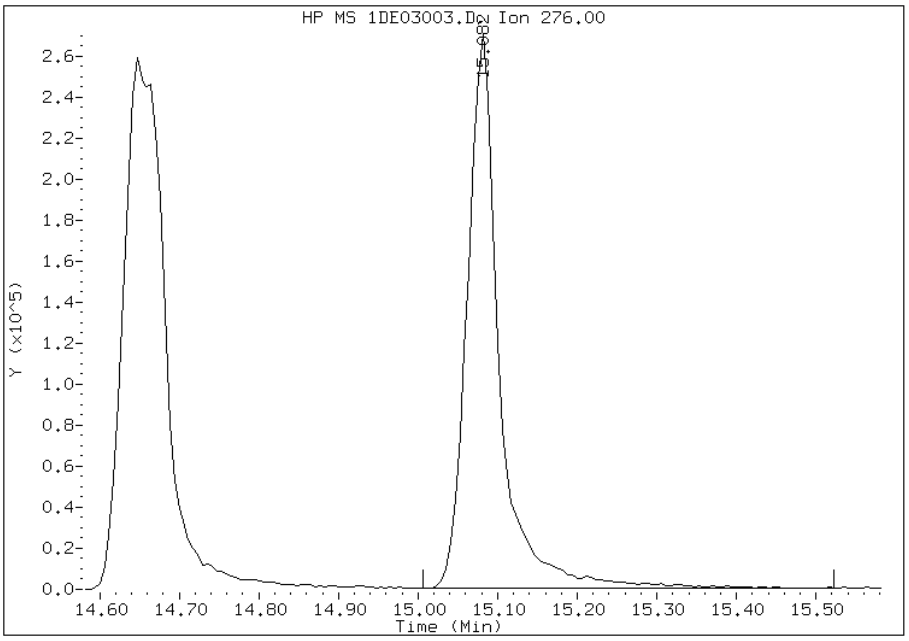
Manual Integration Results

RT: 15.08

Response: 769083

Amount: 19

Conc: 19



Manually Integrated By: cantins
Modification Date: 03-May-2013 10:57
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 26-APR-2013 09:50
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1525851
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-dftpp198.m
Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.935	4.963	-0.028	198	121536			50.00- 0.00	100.00
4.935	4.963	-0.028	51	38720			10.00- 80.00	31.86
4.935	4.963	-0.028	68	0	0.0	0.0	0.00- 2.00	0.00
4.935	4.963	-0.028	69	36384			0.00- 0.00	29.94
4.935	4.963	-0.028	70	323			0.00- 2.00	0.89
4.935	4.963	-0.028	127	46488			10.00- 80.00	38.25
4.935	4.963	-0.028	197	0	0.0	0.0	0.00- 2.00	0.00
4.935	4.963	-0.028	442	102376			50.00- 0.00	84.24
4.935	4.963	-0.028	199	6667			5.00- 9.00	5.49
4.935	4.963	-0.028	275	30992			10.00- 60.00	25.50
4.935	4.963	-0.028	365	3993			1.00- 0.00	3.29
4.935	4.963	-0.028	441	14043			0.01- 99.99	74.57
4.935	4.963	-0.028	443	18832			15.00- 24.00	18.39

Data File: 1AD26002.D

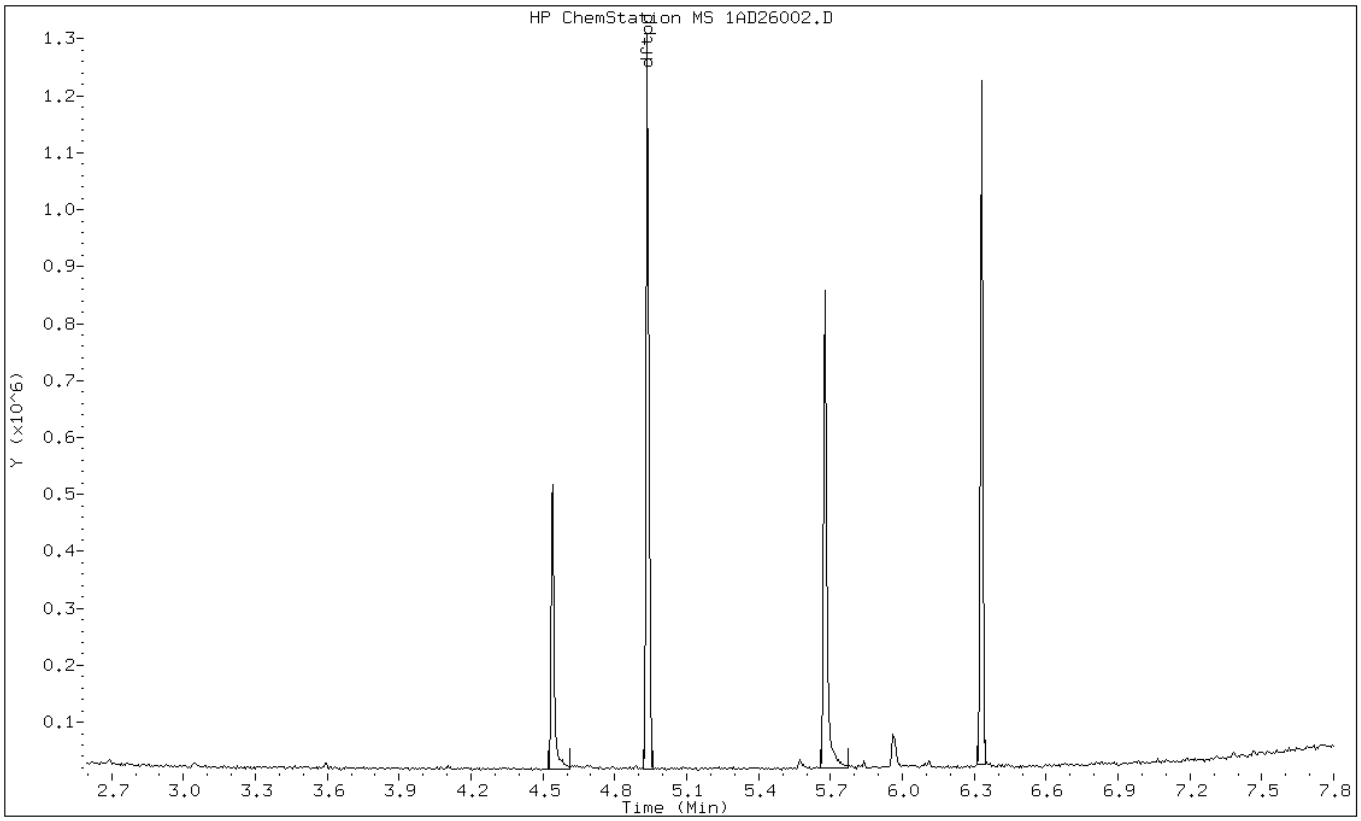
Date: 26-APR-2013 09:50

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC



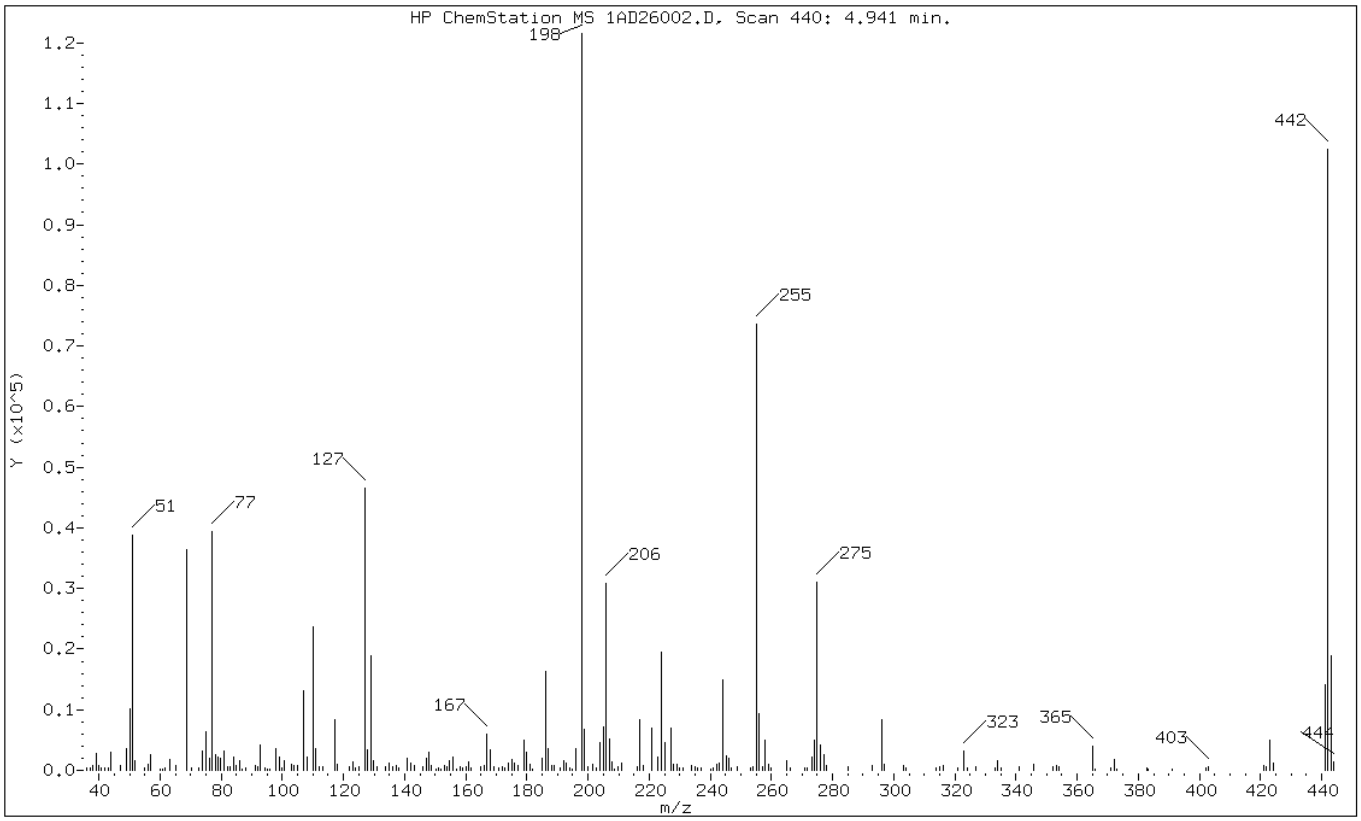
Data File: 1AD26002.D

Date: 26-APR-2013 09:50

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	31.86
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	29.94
70	Less than 2.00% of mass 69	0.27 (0.89)
127	10.00 - 80.00% of mass 198	38.25
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	84.24
199	5.00 - 9.00% of mass 198	5.49
275	10.00 - 60.00% of mass 198	25.50
365	Greater than 1.00% of mass 198	3.29
441	Present, but less than mass 443	11.55
443	15.00 - 24.00% of mass 442	15.49 (18.39)

Data File: 1AD26002.D

Date: 26-APR-2013 09:50

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613_IC.b\1AD26002.D
Spectrum: HP ChemStation MS 1AD26002.D, Scan 440: 4.941 min.
Location of Maximum: 197.90
Number of points: 218

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	318	109.90	23624	181.90	258	257.90	4917
37.10	304	110.90	3528	185.00	1943	258.90	978
38.00	772	112.00	696	186.00	16384	259.90	303
39.00	2851	113.10	557	187.00	3659	265.00	1578
40.10	716	117.00	8329	188.00	719	266.20	302
40.90	450	117.90	908	188.90	826	270.90	415
42.00	367	122.00	606	190.80	404	271.70	437
43.00	323	123.00	1311	192.00	1546	273.10	2160
44.00	3058	124.00	371	192.90	1214	274.00	5041
46.90	754	125.00	512	194.00	396	275.00	30992
49.00	3565	127.00	46488	194.80	255	275.90	4232
50.00	10138	128.00	3368	195.90	3544	277.00	2575
51.00	38720	128.90	18888	197.90	121536	278.00	834
51.90	1557	129.80	1654	198.90	6667	285.00	690
55.00	474	131.00	544	199.90	619	293.00	822
56.00	1032	133.90	503	201.70	1011	296.00	8395
57.00	2554	135.00	1277	202.90	396	297.00	904
60.00	257	136.00	571	204.00	4575	303.20	722
60.90	289	137.10	702	205.00	7152	303.90	319
61.80	317	138.00	427	206.00	30816	314.00	477
63.10	1724	141.00	2035	207.00	5196	314.90	676
65.00	759	142.00	1118	207.90	1339	316.10	769
68.90	36384	143.00	713	208.70	266	320.80	382
70.10	323	146.10	541	209.90	683	323.00	3132
72.80	315	147.00	1966	211.10	1168	324.00	468
74.00	3176	148.00	2955	216.00	640	327.00	657
75.00	6302	148.90	888	216.90	8402	333.00	481
76.10	1935	150.10	289	217.90	765	334.10	1644
77.00	39448	151.00	322	220.90	7020	335.00	459
78.00	2640	151.90	273	223.00	2251	340.90	509
79.00	2237	152.90	869	224.00	19528	345.90	899
79.90	2049	153.90	672	225.00	4617	351.90	634
80.90	3195	154.80	1546	227.00	6882	352.20	548
82.00	676	156.00	2256	227.90	931	353.10	702
82.90	597	156.90	256	229.00	1037	353.90	642
83.90	2102	158.10	527	229.90	339	365.00	3993
84.90	795	159.00	341	231.10	439	365.90	292
86.10	1590	160.00	680	234.00	698	371.00	314
86.80	277	161.00	1485	235.00	536	372.10	1782
87.90	476	161.90	375	236.00	404	372.80	257

91.10	819	164.80	641	237.10	489	382.80	327
92.10	653	166.00	856	240.00	276	383.30	252
92.90	4252	167.00	5928	241.00	479	391.00	277
94.20	435	168.00	3455	242.00	967	402.10	404
95.00	281	169.10	686	243.00	1175	403.00	649
95.90	273	170.90	352	244.00	14953	421.10	713
98.00	3544	172.00	525	245.10	2429	421.80	629
99.00	2270	172.80	444	246.00	1998	422.90	5030
99.80	420	173.90	1209	246.80	476	424.00	1147
100.80	1642	175.10	1874	248.90	576	441.00	14043
103.00	1034	176.00	1175	253.00	400	442.00	102376
103.90	828	177.00	876	253.90	504	443.00	18832
105.00	864	179.00	4909	255.00	73608	443.90	1450
107.00	13154	179.90	2911	256.00	9434		
108.00	2102	180.90	1012	257.00	624		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02005.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 02-MAY-2013 16:01
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1525851
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\a-dftpp198.m
Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

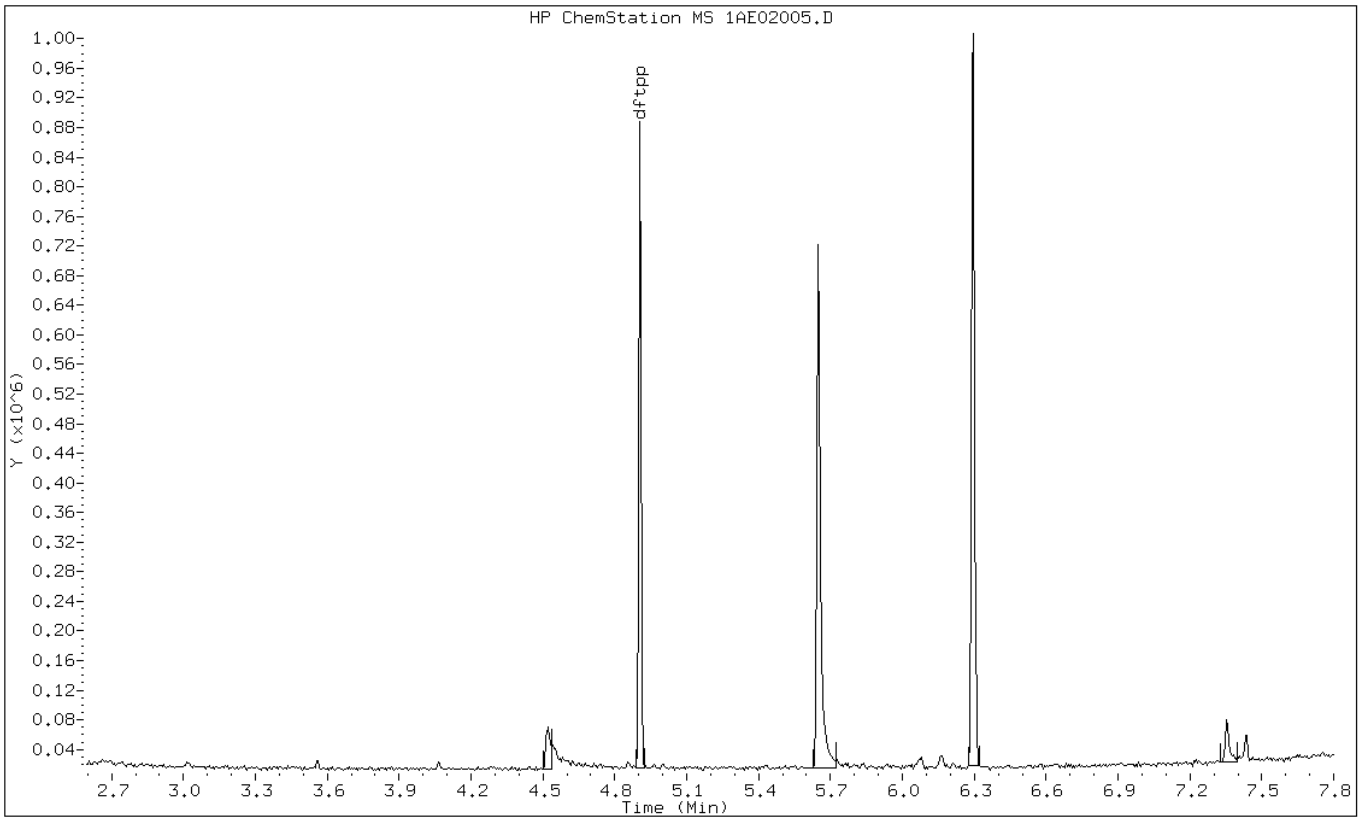
					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.904	4.963	-0.059	198	103936			50.00- 0.00	100.00
4.904	4.963	-0.059	51	49616			10.00- 80.00	47.74
4.904	4.963	-0.059	68	0	0.0	0.0	0.00- 2.00	0.00
4.904	4.963	-0.059	69	43848			0.00- 0.00	42.19
4.904	4.963	-0.059	70	439			0.00- 2.00	1.00
4.904	4.963	-0.059	127	47864			10.00- 80.00	46.05
4.904	4.963	-0.059	197	0	0.0	0.0	0.00- 2.00	0.00
4.904	4.963	-0.059	442	52120			50.00- 0.00	50.15
4.904	4.963	-0.059	199	6218			5.00- 9.00	5.98
4.904	4.963	-0.059	275	22528			10.00- 60.00	21.67
4.904	4.963	-0.059	365	2331			1.00- 0.00	2.24
4.904	4.963	-0.059	441	7991			0.01- 99.99	78.97
4.904	4.963	-0.059	443	10119			15.00- 24.00	19.41

Data File: 1AE02005.D

Date: 02-MAY-2013 16:01

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC



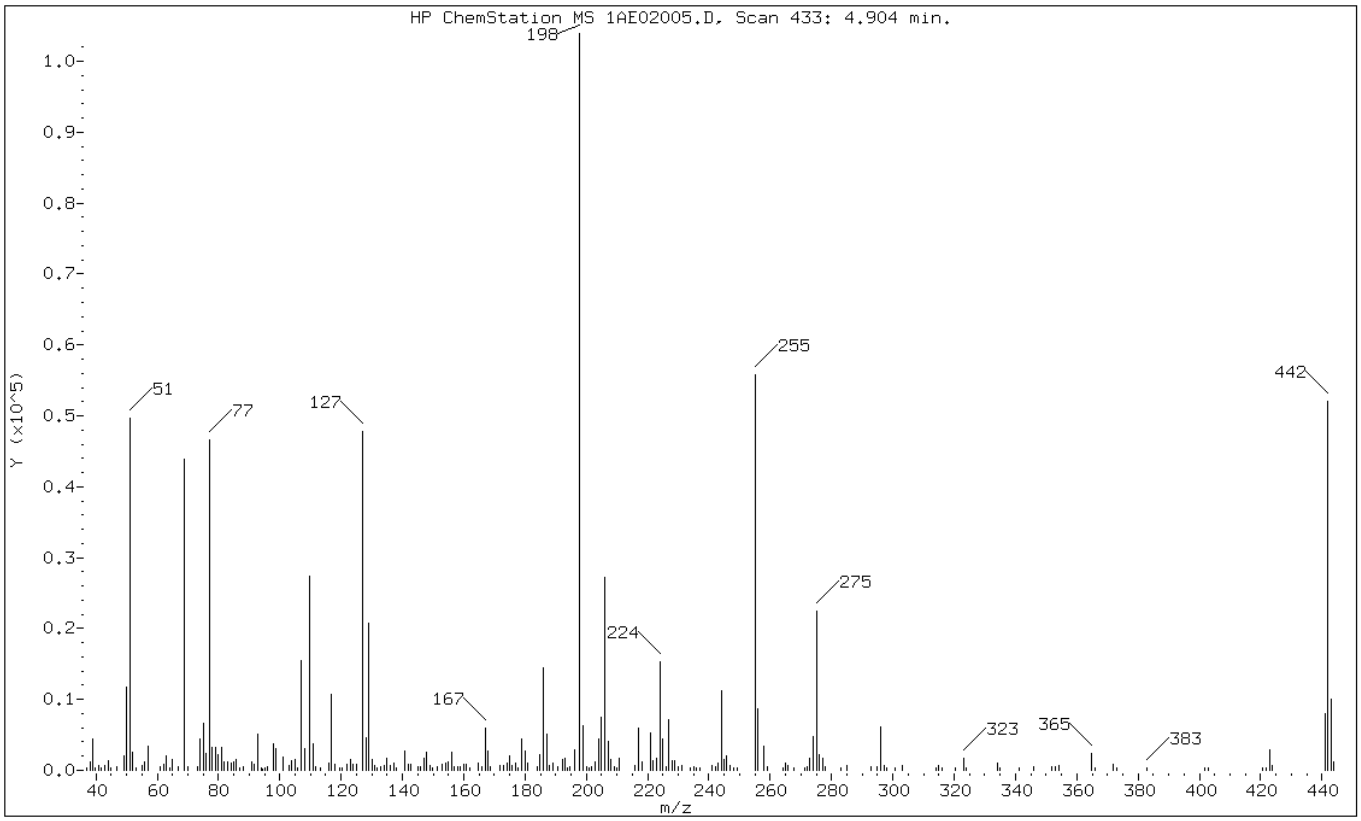
Data File: 1AE02005.D

Date: 02-MAY-2013 16:01

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	47.74
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	42.19
70	Less than 2.00% of mass 69	0.42 (1.00)
127	10.00 - 80.00% of mass 198	46.05
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	50.15
199	5.00 - 9.00% of mass 198	5.98
275	10.00 - 60.00% of mass 198	21.67
365	Greater than 1.00% of mass 198	2.24
441	Present, but less than mass 443	7.69
443	15.00 - 24.00% of mass 442	9.74 (19.41)

Data File: 1AE02005.D

Date: 02-MAY-2013 16:01

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02005.D
Spectrum: HP ChemStation MS 1AE02005.D, Scan 433: 4.904 min.
Location of Maximum: 197.90
Number of points: 224

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	335	108.00	2987	177.90	355	255.00	55792
38.00	1130	109.90	27400	179.00	4412	256.00	8666
39.00	4439	111.00	3773	180.00	2711	258.00	3374
39.90	420	111.80	466	180.90	943	258.90	437
41.00	727	113.10	291	184.00	515	264.10	373
41.90	259	116.10	975	184.90	2278	265.00	1042
43.00	677	116.90	10639	186.00	14445	265.90	601
43.90	1391	118.00	840	187.00	5058	267.80	358
44.90	272	119.70	299	188.00	603	271.10	311
46.80	432	120.20	399	189.00	946	271.90	446
49.00	2096	121.80	802	190.80	595	272.90	1759
50.00	11807	122.90	1458	192.10	1562	274.00	4684
51.00	49616	123.90	829	192.90	1705	275.00	22528
52.00	2556	125.00	819	193.90	343	276.00	2215
53.10	325	127.00	47864	194.70	437	277.00	1764
55.10	657	128.00	4618	196.00	2811	278.00	465
56.00	1265	129.00	20680	197.90	103936	283.10	404
57.00	3372	130.00	1535	199.00	6218	285.00	636
60.90	462	130.90	762	200.00	562	292.80	471
62.00	795	131.80	323	200.80	288	294.90	432
63.10	2094	133.00	431	201.50	574	296.00	6159
64.00	351	133.90	683	203.00	1237	297.00	751
65.00	1475	135.00	1707	204.00	4429	298.00	275
66.90	485	136.00	610	205.00	7412	300.80	331
68.90	43848	137.20	1024	206.00	27200	303.20	627
69.90	439	138.00	311	207.00	4083	314.00	281
73.10	574	140.90	2804	208.00	1498	315.00	718
74.00	4403	141.90	818	209.10	495	316.00	303
75.00	6643	142.90	831	210.10	396	320.50	308
76.10	2301	144.90	473	210.90	1661	323.10	1620
77.00	46672	146.00	492	216.00	705	324.10	407
78.00	3193	147.00	1637	217.00	5965	334.00	1072
78.90	3268	148.00	2527	218.00	1175	335.00	342
80.00	2213	149.10	657	221.00	5252	341.10	261
81.00	3243	149.90	292	221.80	1394	345.90	515
82.00	1126	151.20	474	223.10	1701	352.00	521
83.00	1136	152.90	871	224.00	15286	353.10	585
84.00	975	154.10	972	224.90	4427	354.20	644
85.00	1111	154.90	1244	226.00	591	364.90	2331
85.90	1533	155.90	2625	227.00	7163	366.10	258

86.90	405	156.90	545	228.00	1326	372.00	912
87.90	565	158.00	437	229.00	1409	373.00	275
91.00	1267	159.00	555	229.80	467	383.00	406
91.80	882	159.90	776	231.00	609	401.80	306
92.90	5108	160.90	785	233.90	367	403.00	400
93.90	288	161.90	344	234.90	576	420.80	284
94.20	252	164.90	1014	236.00	373	421.60	405
95.00	304	166.00	595	237.10	425	422.90	2834
96.00	573	167.00	5935	240.90	730	423.90	614
98.00	3736	167.90	2761	242.00	475	440.90	7991
98.90	3046	168.80	563	243.00	952	442.00	52120
100.90	1818	172.00	682	244.00	11184	442.90	10119
102.90	597	172.90	699	245.00	1448	443.80	1179
104.00	1380	174.00	1032	245.90	2085		
104.90	1447	174.90	2103	246.90	636		
105.80	356	175.90	651	248.20	375		
107.00	15490	176.90	1024	249.10	392		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 06-MAY-2013 10:11
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1525851
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-dftpp198.m
Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

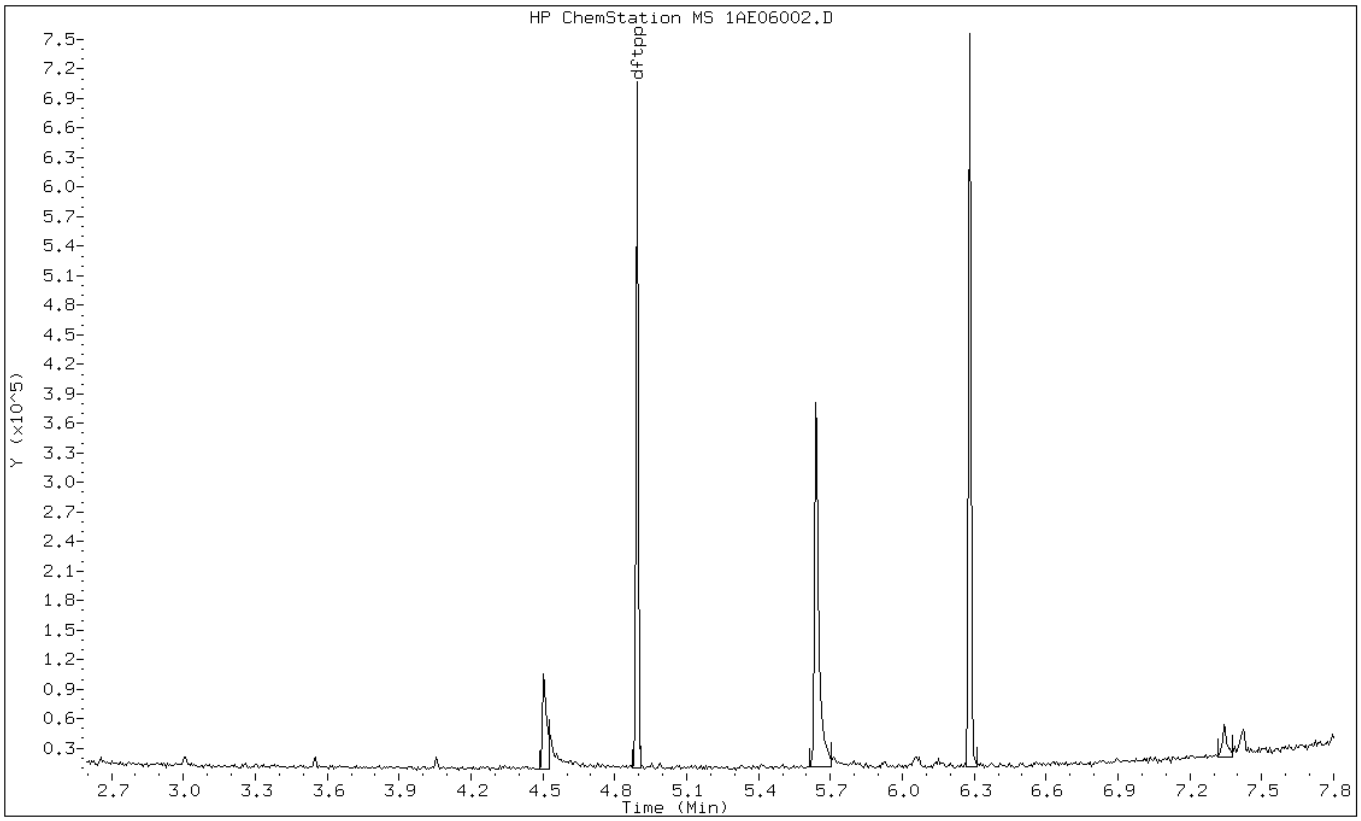
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.893	4.963	-0.070	198	57528			50.00- 0.00	100.00
4.893	4.963	-0.070	51	21778			10.00- 80.00	37.86
4.893	4.963	-0.070	68	150			0.00- 2.00	0.78
4.893	4.963	-0.070	69	19303			0.00- 0.00	33.55
4.893	4.963	-0.070	70	321			0.00- 2.00	1.66
4.893	4.963	-0.070	127	26701			10.00- 80.00	46.41
4.893	4.963	-0.070	197	0	0.0	0.0	0.00- 2.00	0.00
4.893	4.963	-0.070	442	50968			50.00- 0.00	88.60
4.893	4.963	-0.070	199	4201			5.00- 9.00	7.30
4.893	4.963	-0.070	275	14341			10.00- 60.00	24.93
4.893	4.963	-0.070	365	1641			1.00- 0.00	2.85
4.893	4.963	-0.070	441	7097			0.01- 99.99	75.79
4.893	4.963	-0.070	443	9364			15.00- 24.00	18.37

Data File: 1AE06002.D

Date: 06-MAY-2013 10:11

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC



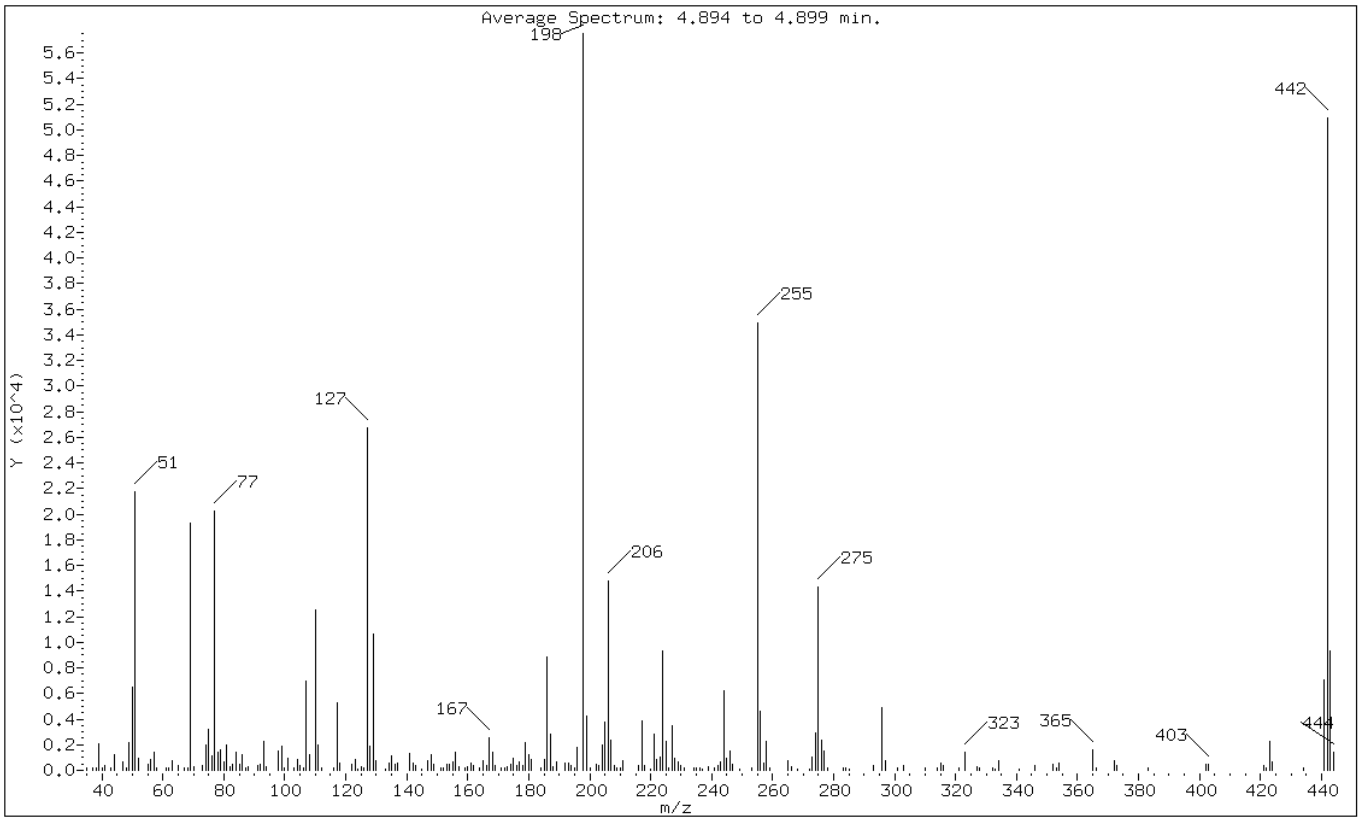
Data File: 1AE06002.D

Date: 06-MAY-2013 10:11

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	37.86
68	Less than 2.00% of mass 69	0.26 (0.78)
69	Mass 69 relative abundance	33.55
70	Less than 2.00% of mass 69	0.56 (1.66)
127	10.00 - 80.00% of mass 198	46.41
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	88.60
199	5.00 - 9.00% of mass 198	7.30
275	10.00 - 60.00% of mass 198	24.93
365	Greater than 1.00% of mass 198	2.85
441	Present, but less than mass 443	12.34
443	15.00 - 24.00% of mass 442	16.28 (18.37)

Data File: 1AE06002.D

Date: 06-MAY-2013 10:11

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06002.D
Spectrum: Average Spectrum: 4.894 to 4.899 min.
Location of Maximum: 198.00
Number of points: 219

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	163	108.00	1239	181.00	851	256.00	4636
37.00	156	110.00	12507	184.00	149	257.00	523
38.00	198	111.00	1967	185.00	803	258.00	2260
39.00	2065	112.00	171	186.00	8887	259.00	189
40.00	227	116.00	201	187.00	2798	265.00	774
41.00	402	117.00	5309	188.00	238	266.00	253
43.00	157	118.00	581	189.00	658	268.00	138
44.00	1183	122.00	433	192.00	597	272.00	132
47.00	644	123.00	860	193.00	519	273.00	1005
48.00	173	124.00	130	194.00	402	274.00	2879
49.00	2203	125.00	327	195.00	179	275.00	14341
50.00	6482	126.00	144	196.00	1807	276.00	2336
51.00	21776	127.00	26696	198.00	57528	277.00	1475
52.00	935	128.00	1902	199.00	4201	278.00	147
55.00	483	129.00	10602	200.00	146	283.00	142
56.00	828	130.00	798	202.00	501	284.00	171
57.00	1410	133.00	131	203.00	342	285.00	130
58.00	157	134.00	589	204.00	1990	293.00	374
61.00	226	135.00	1111	205.00	3759	296.00	4873
62.00	219	136.00	509	206.00	14757	297.00	798
63.00	710	137.00	544	207.00	2319	301.00	159
65.00	363	141.00	1360	208.00	334	303.00	401
67.00	154	142.00	519	209.00	187	310.00	191
68.00	150	143.00	362	210.00	163	314.00	181
69.00	19296	145.00	132	211.00	732	315.00	566
70.00	321	147.00	775	216.00	411	316.00	405
73.00	350	148.00	1196	217.00	3840	321.00	172
74.00	1963	149.00	428	218.00	401	323.00	1437
75.00	3170	151.00	180	220.00	129	327.00	272
76.00	1099	152.00	156	221.00	2850	328.00	187
77.00	20232	153.00	492	222.00	804	332.00	163
78.00	1369	154.00	514	223.00	1004	333.00	133
79.00	1624	155.00	638	224.00	9288	334.00	783
80.00	676	156.00	1388	225.00	2223	341.00	125
81.00	1934	157.00	302	226.00	171	346.00	355
82.00	244	159.00	191	227.00	3480	352.00	462
83.00	509	160.00	265	228.00	907	353.00	202
84.00	1383	161.00	547	229.00	688	354.00	531
85.00	492	162.00	334	230.00	358	365.00	1641
86.00	1181	164.00	196	231.00	145	366.00	175

87.00	202	165.00	726	234.00	224	372.00	775
88.00	293	166.00	399	235.00	156	373.00	397
91.00	342	167.00	2575	236.00	170	383.00	218
92.00	461	168.00	1370	237.00	137	402.00	427
93.00	2305	169.00	331	239.00	280	403.00	432
94.00	254	171.00	162	241.00	228	421.00	371
98.00	1468	172.00	183	242.00	360	422.00	142
99.00	1901	173.00	275	243.00	647	423.00	2274
100.00	194	174.00	453	244.00	6260	424.00	676
101.00	952	175.00	907	245.00	931	434.00	158
103.00	216	176.00	340	246.00	1492	441.00	7097
104.00	886	177.00	695	247.00	478	442.00	50968
105.00	404	178.00	416	249.00	129	443.00	9364
106.00	232	179.00	2194	253.00	142	444.00	1393
107.00	6935	180.00	1266	255.00	34928		

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	CONCENTRATIONS 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

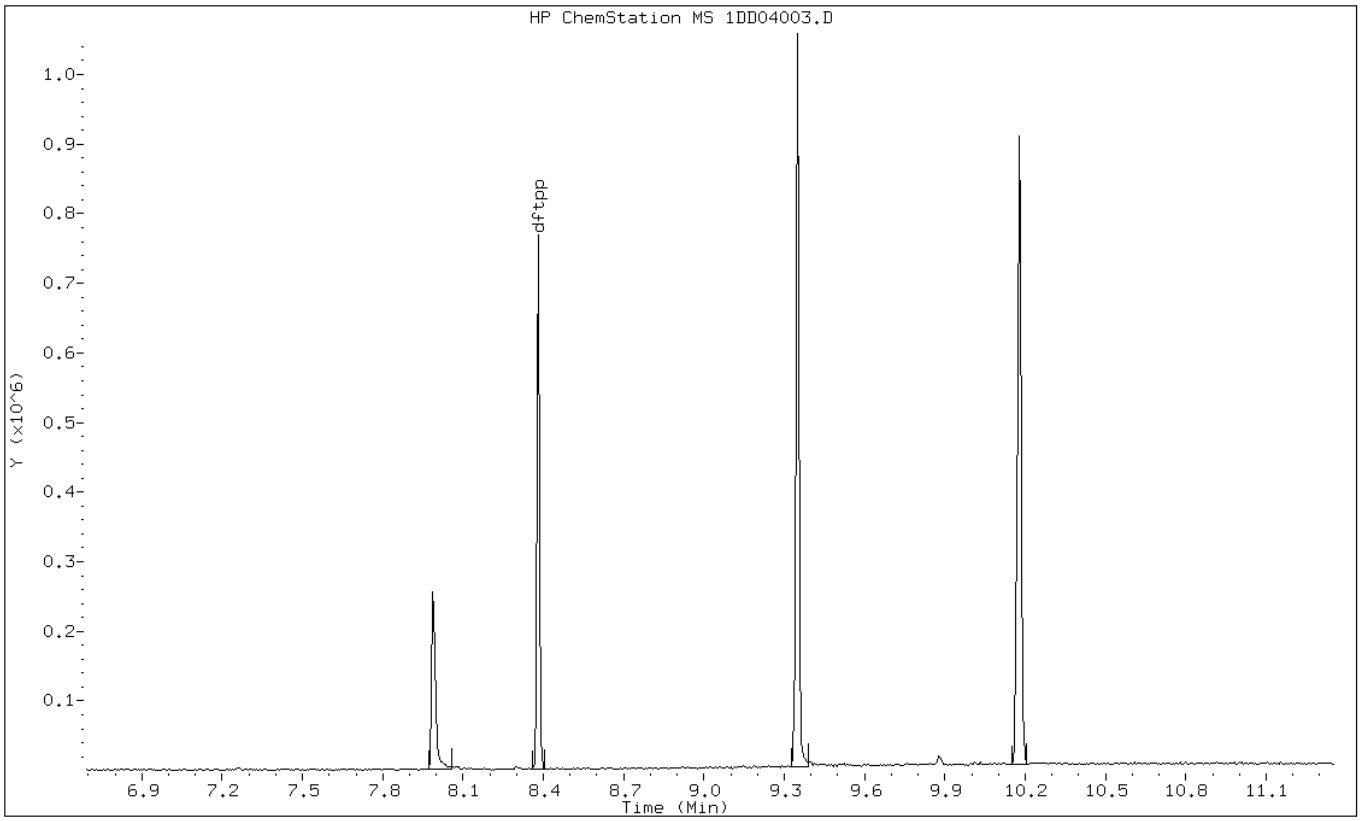
Date: 04-APR-2013 12:15

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



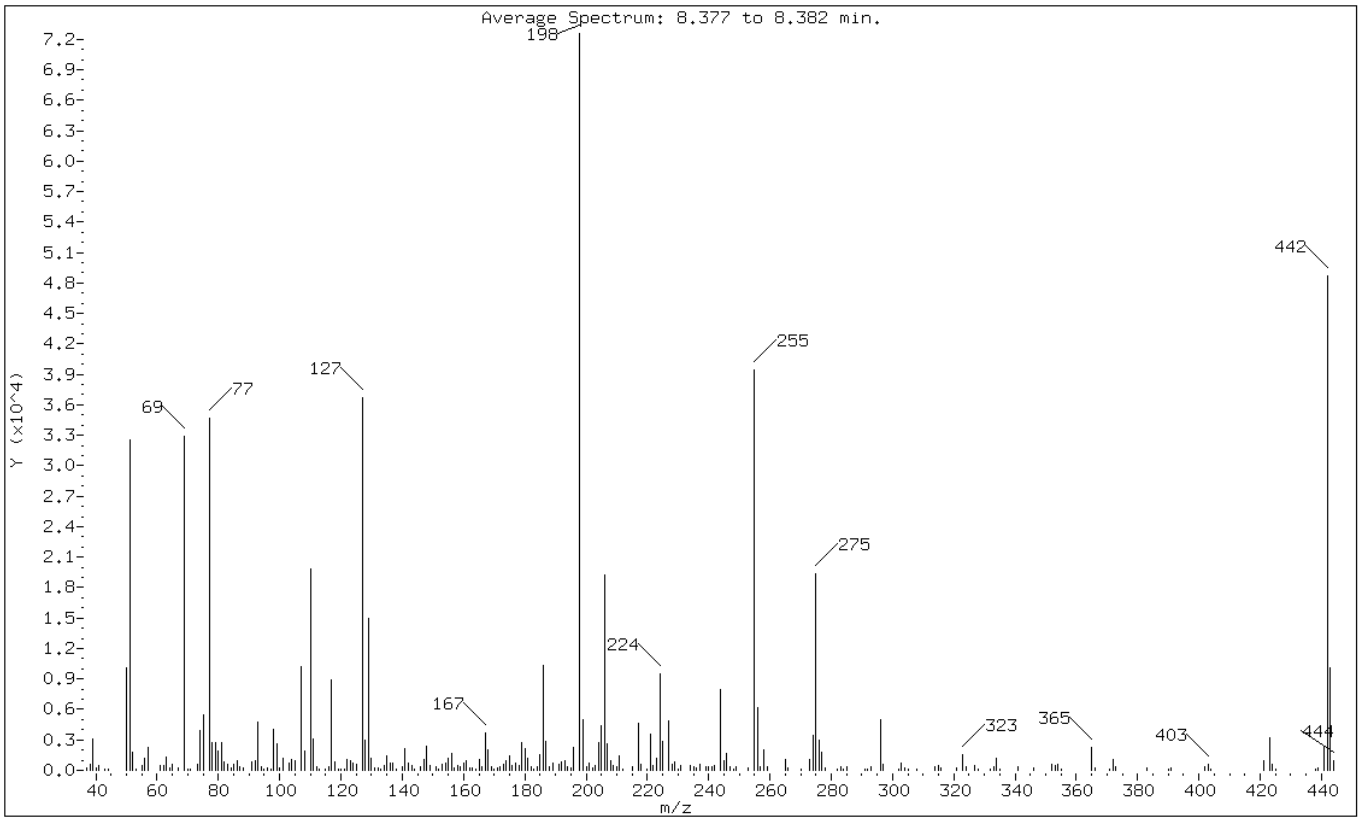
Data File: 1DD04003.D

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\1D050313.b\1DE03002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 03-MAY-2013 10:16
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D050313.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

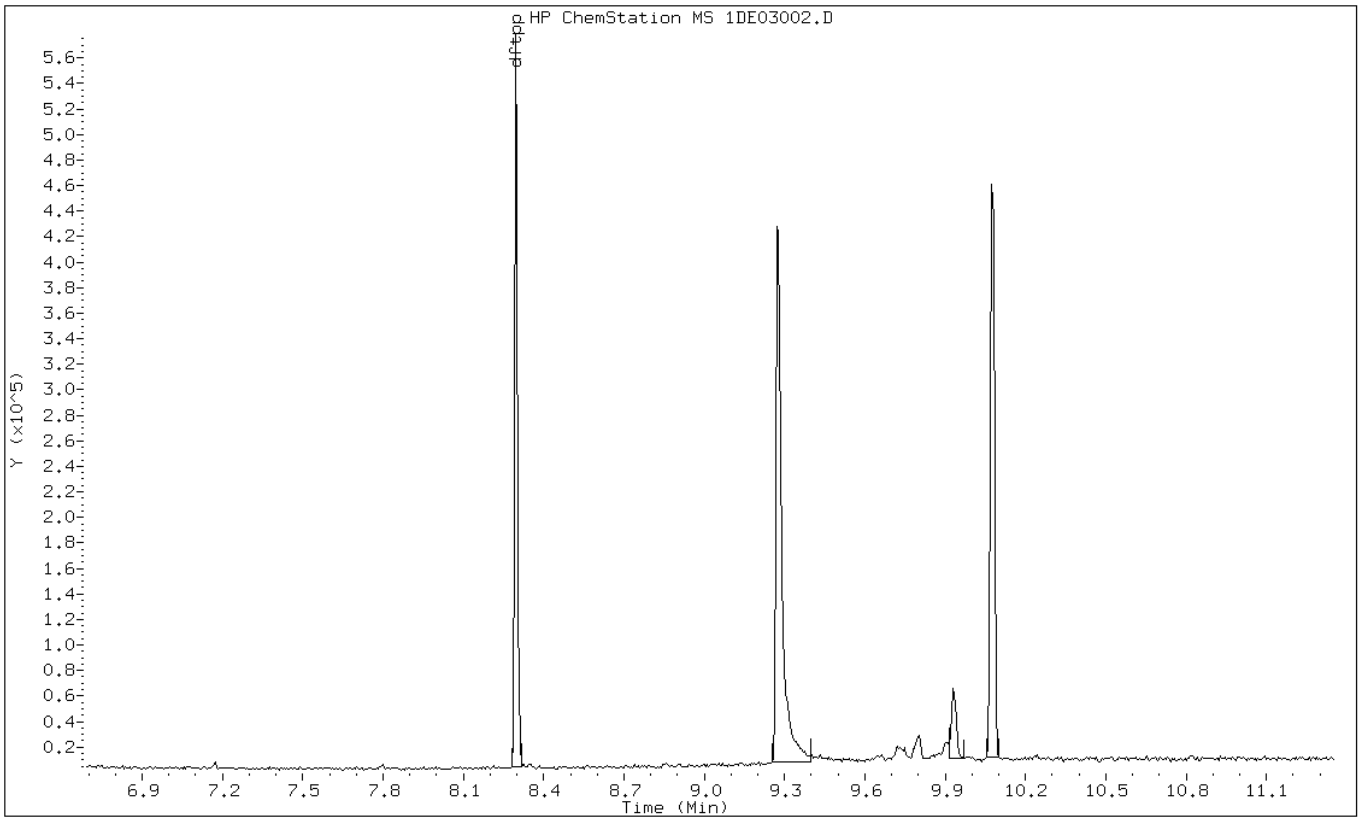
					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.295	8.532	-0.237	198	58416			50.00- 0.00	100.00
8.295	8.532	-0.237	51	33640			10.00- 80.00	57.59
8.295	8.532	-0.237	68	0	0.0	0.0	0.00- 2.00	0.00
8.295	8.532	-0.237	69	29464			0.00- 0.00	50.44
8.295	8.532	-0.237	70	0	0.0	0.0	0.00- 2.00	0.00
8.295	8.532	-0.237	127	29896			10.00- 80.00	51.18
8.295	8.532	-0.237	197	0	0.0	0.0	0.00- 2.00	0.00
8.295	8.532	-0.237	442	31376			50.00- 0.00	53.71
8.295	8.532	-0.237	199	4052			5.00- 9.00	6.94
8.295	8.532	-0.237	275	15622			10.00- 60.00	26.74
8.295	8.532	-0.237	365	1961			1.00- 0.00	3.36
8.295	8.532	-0.237	441	5128			0.01- 99.99	76.97
8.295	8.532	-0.237	443	6662			15.00- 24.00	21.23

Data File: 1DE03002.D

Date: 03-MAY-2013 10:16

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC



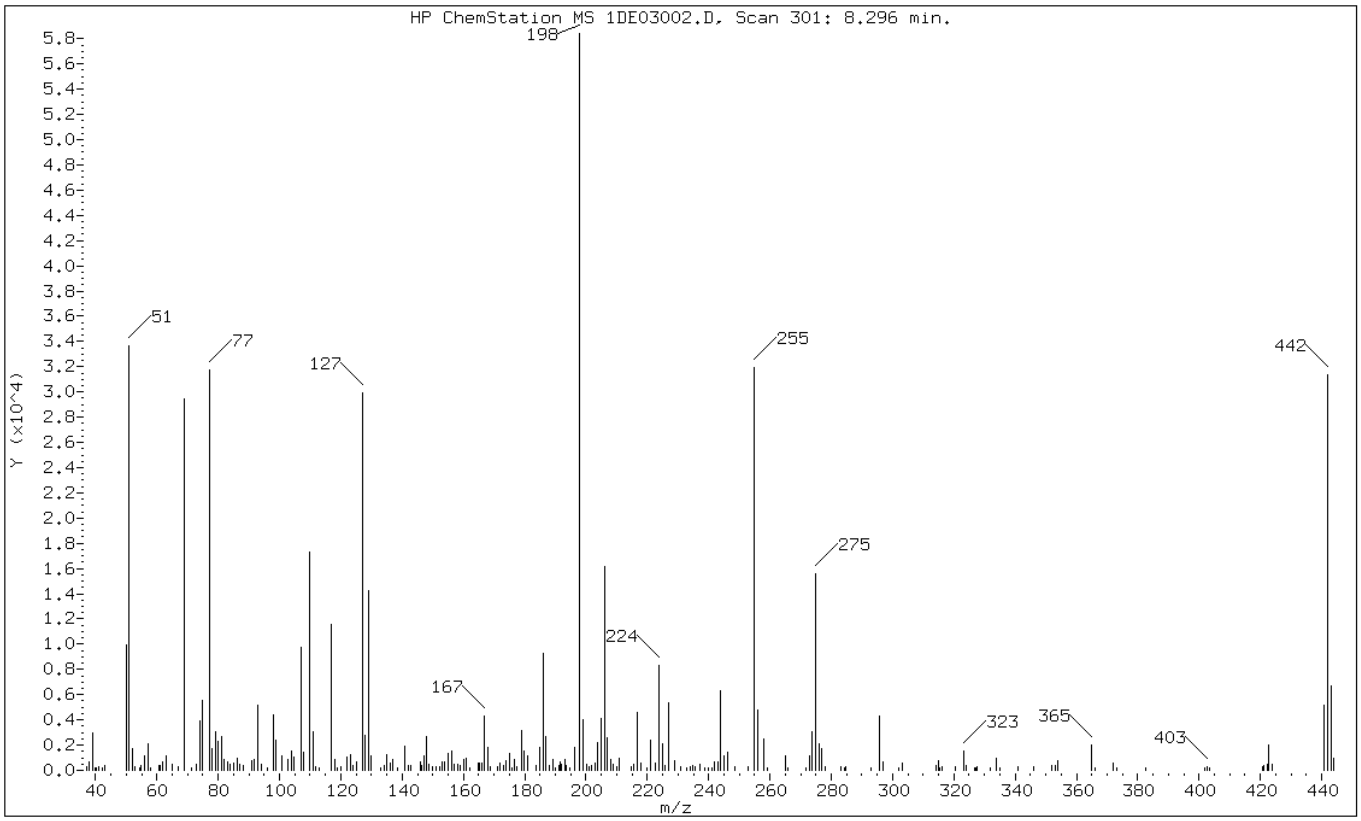
Data File: 1DE03002.D

Date: 03-MAY-2013 10:16

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	57.59
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	50.44
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	51.18
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	53.71
199	5.00 - 9.00% of mass 198	6.94
275	10.00 - 60.00% of mass 198	26.74
365	Greater than 1.00% of mass 198	3.36
441	Present, but less than mass 443	8.78
443	15.00 - 24.00% of mass 442	11.40 (21.23)

Data File: 1DE03002.D

Date: 03-MAY-2013 10:16

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D050313.b\1DE03002.D
Spectrum: HP ChemStation MS 1DE03002.D, Scan 301: 8.296 min.
Location of Maximum: 197.90
Number of points: 226

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	272	116.90	11611	184.90	1792	255.90	4772
37.90	673	118.00	827	185.90	9309	257.90	2461
39.00	2934	118.70	238	187.00	2701	259.30	215
39.90	176	120.10	265	188.00	358	265.00	1135
40.20	199	122.00	1043	189.20	840	266.00	175
40.90	244	123.00	1211	189.90	155	271.80	164
42.10	157	124.00	387	191.00	394	273.00	1114
43.00	347	125.10	694	191.70	655	273.90	3044
50.00	9939	127.00	29896	192.10	448	275.00	15622
51.00	33640	127.90	2758	193.00	854	275.90	2113
52.00	1717	129.00	14236	193.60	349	276.90	1737
52.90	257	129.90	1166	194.90	232	277.90	299
54.30	175	132.90	168	196.10	1797	283.00	248
54.90	366	134.00	372	197.90	58416	284.20	186
56.00	1191	135.00	1285	198.90	4052	284.80	315
57.00	2068	136.00	536	200.10	488	292.90	167
57.80	172	137.00	816	201.00	288	295.90	4259
60.80	409	138.70	224	201.60	349	296.90	683
61.10	379	140.80	1944	202.80	559	302.00	204
61.90	635	142.00	429	203.90	2171	303.00	603
63.10	1182	142.80	363	205.00	4072	314.00	338
64.90	479	145.90	651	206.00	16152	314.90	745
67.00	290	146.40	417	207.00	2545	315.50	217
69.00	29464	147.00	1129	208.00	902	316.20	265
71.20	167	147.90	2689	208.90	445	320.60	253
72.90	464	148.80	457	210.00	333	323.10	1505
74.00	3916	149.90	245	210.80	949	323.90	346
75.00	5587	151.20	277	214.60	218	326.80	183
77.00	31768	152.10	266	214.90	290	327.10	190
78.00	1754	152.90	710	215.70	523	327.60	244
79.00	3104	153.90	700	216.90	4590	332.00	198
80.00	2327	154.90	1298	217.80	534	334.00	959
81.00	2634	156.00	1521	220.00	206	334.90	203
81.90	815	157.00	453	221.00	2417	340.90	268
83.10	660	158.00	475	222.80	567	345.90	322
83.80	509	158.90	420	223.90	8322	352.10	395
84.90	564	160.10	821	225.00	2126	353.00	420
86.10	995	161.10	925	225.80	406	353.90	737
87.10	491	162.10	188	226.90	5316	364.90	1961
88.10	388	164.80	610	228.80	771	366.00	207

90.80	780	165.10	563	230.90	292	371.90	560
91.90	845	165.90	576	232.80	214	373.20	162
92.90	5120	167.00	4285	234.00	325	382.70	155
94.10	438	167.90	1831	234.80	393	401.70	202
95.90	155	168.80	300	235.70	250	402.80	292
97.90	4409	171.00	252	237.10	471	403.40	193
99.00	2434	171.90	598	238.80	216	420.80	323
100.90	1111	172.90	377	239.90	159	421.20	343
102.90	832	173.90	786	241.10	162	422.10	483
104.00	1513	175.00	1303	242.00	642	422.80	2013
104.90	1033	175.90	202	242.90	704	424.00	454
107.00	9733	176.80	872	243.90	6314	440.90	5128
108.00	1466	177.40	327	245.00	1111	442.00	31376
109.90	17272	178.90	3129	246.10	1420	443.00	6662
110.90	3070	179.80	1566	248.50	277	443.90	954
111.90	334	180.90	1130	252.70	263		
113.00	170	183.60	379	254.90	31920		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: | Lab Sample ID: MB 660-136975/1-A

Matrix: Solid | Lab File ID: 1AE02008.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/30/2013 14:42

Sample wt/vol: 14.95(g) | Date Analyzed: 05/02/2013 16:56

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137070 | Units: ug/Kg

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

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02008.D
Lab Smp Id: MB 660-136975/1-A
Inj Date : 02-MAY-2013 16:56
Operator : SCC Inst ID: BSMA5973.i
Smp Info : MB 660-136975/1-A
Misc Info : RE-RUN
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\a-bFASTPAHi-m.m
Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

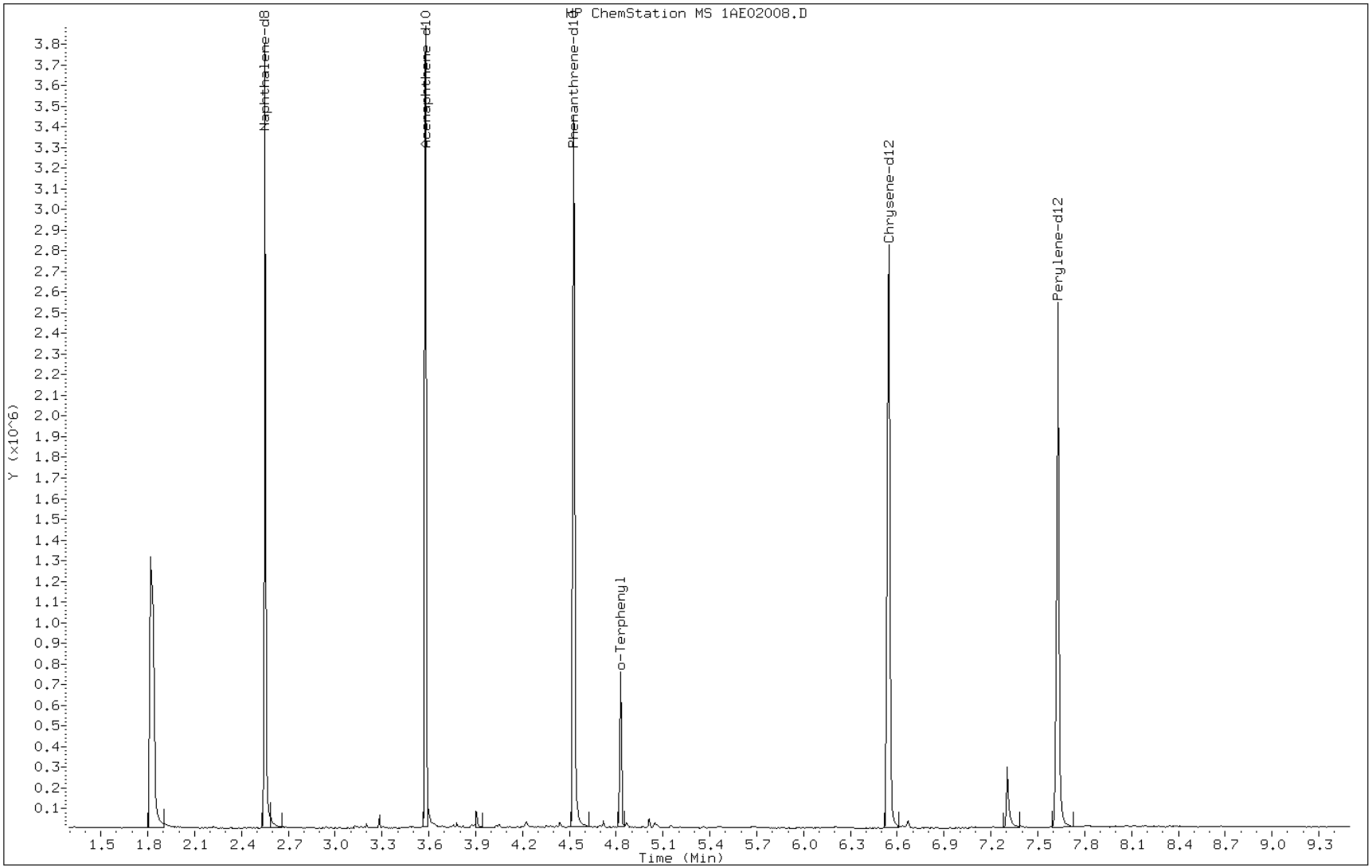
		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
*	1 Naphthalene-d8	136	2.551	2.550	(1.000)	1328871	40.0000	
*	6 Acenaphthene-d10	164	3.582	3.581	(1.000)	712860	40.0000	
*	10 Phenanthrene-d10	188	4.528	4.532	(1.000)	1189239	40.0000	
$	14 o-Terphenyl	230	4.827	4.831	(1.066)	110764	5.69431	380.8903
*	18 Chrysene-d12	240	6.547	6.551	(1.000)	1170549	40.0000	
*	23 Perylene-d12	264	7.631	7.641	(1.000)	1144344	40.0000	

Data File: 1AE02008.D

Date: 02-MAY-2013 16:56

Client ID: Instrument: BSMA5973.i

Sample Info: MB 660-136975/1-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: | Lab Sample ID: MB 660-137037/1-A

Matrix: Solid | Lab File ID: 1DE03005.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 05/02/2013 08:14

Sample wt/vol: 15.00(g) | Date Analyzed: 05/03/2013 11:28

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137126 | 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	70		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D050313.b\1DE03005.D
Lab Smp Id: mb 660-137037/1-a
Inj Date : 03-MAY-2013 11:28
Operator : SCC Inst ID: BSMSD.i
Smp Info : mb 660-137037/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D050313.b\dFASTPAHi.m
Meth Date : 03-May-2013 10:55 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 6 QC Sample: BLANK
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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.005	6.004	(1.000)	1370230	40.0000	
* 6 Acenaphthene-d10	164	7.691	7.690	(1.000)	942213	40.0000	
* 9 Phenanthrene-d10	188	8.954	8.953	(1.000)	1505344	40.0000	
$ 13 o-Terphenyl	230	9.260	9.259	(1.034)	158680	6.99599	470
* 17 Chrysene-d12	240	11.258	11.257	(1.000)	1488703	40.0000	
* 22 Perylene-d12	264	13.067	13.066	(1.000)	1475833	40.0000	
10 Phenanthrene	178	8.966	8.971	(1.001)	1412	0.03405	2.3(Q)

QC Flag Legend

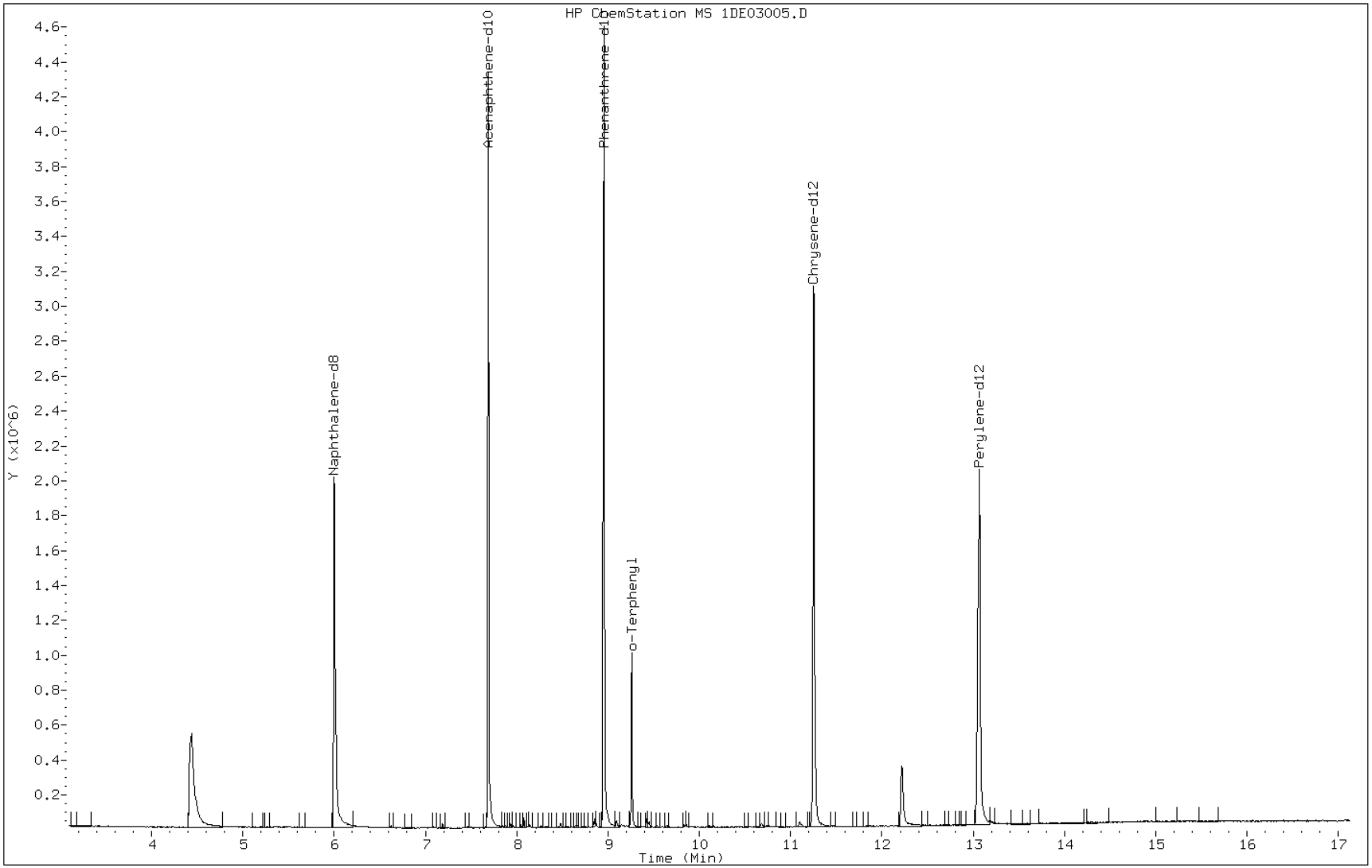
Q - Qualifier signal failed the ratio test.

Data File: 1DE03005.D

Date: 03-MAY-2013 11:28

Client ID: Instrument: BSMSD.i

Sample Info: mb 660-137037/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: | Lab Sample ID: LCS 660-136975/2-A

Matrix: Solid | Lab File ID: 1AE02010.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/30/2013 14:42

Sample wt/vol: 14.99(g) | Date Analyzed: 05/02/2013 17:26

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137070 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	324		100	20
208-96-8	Acenaphthylene	331		40	5.0
120-12-7	Anthracene	412		8.4	4.2
56-55-3	Benzo[a]anthracene	393		8.0	3.9
50-32-8	Benzo[a]pyrene	341		10	5.2
205-99-2	Benzo[b]fluoranthene	352		12	6.1
191-24-2	Benzo[g,h,i]perylene	343		20	4.4
207-08-9	Benzo[k]fluoranthene	382		8.0	3.6
218-01-9	Chrysene	356		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	413		20	4.1
206-44-0	Fluoranthene	393		20	4.0
86-73-7	Fluorene	371		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	353		20	7.1
90-12-0	1-Methylnaphthalene	413		40	4.4
91-57-6	2-Methylnaphthalene	396		40	7.1
91-20-3	Naphthalene	391		40	4.4
85-01-8	Phenanthrene	412		8.0	3.9
129-00-0	Pyrene	372		20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02010.D
Lab Smp Id: lcs 660-136975/2-a
Inj Date : 02-MAY-2013 17:26
Operator : SCC Inst ID: BSMA5973.i
Smp Info : lcs 660-136975/2-a
Misc Info : RE-RUN
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\a-bFASTPAHi-m.m
Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 7 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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.551	2.550	(1.000)	1623370	40.0000	
*	6 Acenaphthene-d10	164	3.582	3.581	(1.000)	940356	40.0000	
*	10 Phenanthrene-d10	188	4.533	4.532	(1.000)	1443047	40.0000	
$	14 o-Terphenyl	230	4.827	4.831	(1.065)	136591	5.78700	386.0571
*	18 Chrysene-d12	240	6.552	6.551	(1.000)	1358032	40.0000	
*	23 Perylene-d12	264	7.637	7.641	(1.000)	1341044	40.0000	
	2 Naphthalene	128	2.562	2.560	(1.004)	237736	5.85832	390.8151
	3 2-Methylnaphthalene	141	2.968	2.972	(1.163)	138018	5.93219	395.7432
	4 1-Methylnaphthalene	142	3.026	3.025	(1.186)	159701	6.19555	413.3119
	5 Acenaphthylene	152	3.491	3.490	(0.975)	272344	4.95558	330.5926
	7 Acenaphthene	154	3.598	3.597	(1.004)	139915	4.85465	323.8591
	9 Fluorene	166	3.913	3.912	(1.092)	192877	5.56236	371.0714
	11 Phenanthrene	178	4.544	4.548	(1.002)	257911	6.16980	411.5941
	12 Anthracene	178	4.581	4.580	(1.011)	268655	6.18091	412.3355

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.709	4.713	(1.039)	234046	5.58174	372.3640
15 Fluoranthene	202	5.409	5.413	(1.193)	284094	5.88400	392.5283
16 Pyrene	202	5.575	5.579	(0.851)	289027	5.57861	372.1552
17 Benzo(a)anthracene	228	6.542	6.540	(0.998)	261485	5.89603	393.3307
19 Chrysene	228	6.568	6.572	(1.002)	239873	5.33130	355.6574
20 Benzo(b)fluoranthene	252	7.354	7.363	(0.963)	215105	5.28341	352.4622
21 Benzo(k)fluoranthene	252	7.375	7.384	(0.966)	267948	5.72416	381.8651
22 Benzo(a)pyrene	252	7.583	7.593	(0.993)	207020	5.11132	340.9818
24 Indeno(1,2,3-cd)pyrene	276	8.385	8.405	(1.098)	202634	5.29865	353.4791(M)
25 Dibenzo(a,h)anthracene	278	8.411	8.431	(1.101)	220148	6.18692	412.7366
26 Benzo(g,h,i)perylene	276	8.598	8.624	(1.126)	220282	5.14669	343.3415

QC Flag Legend

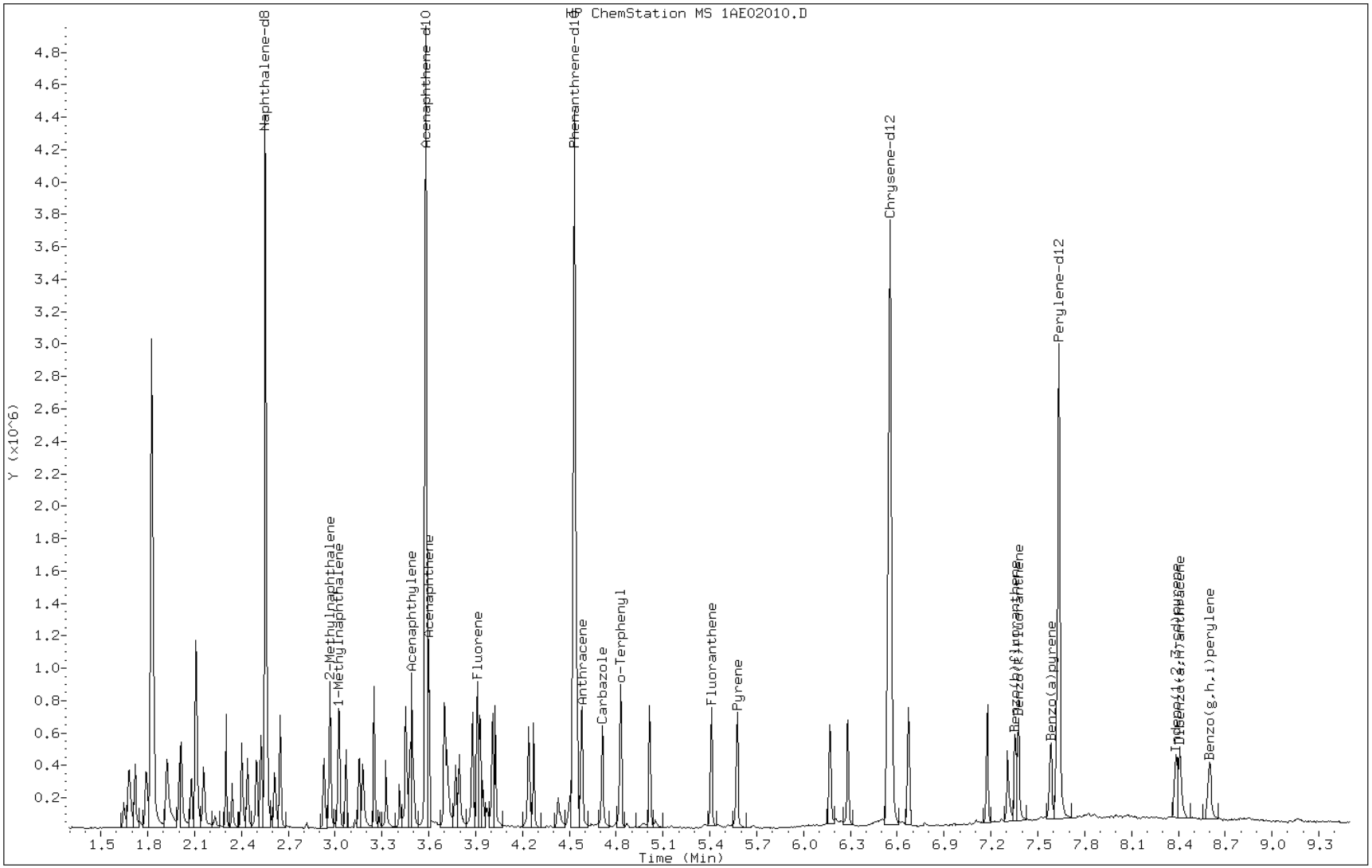
M - Compound response manually integrated.

Data File: 1AE02010.D

Date: 02-MAY-2013 17:26

Client ID: Instrument: BSMA5973.i

Sample Info: lcs 660-136975/2-a Operator: SCC



Manual Integration Report

Data File: 1AE02010.D
Inj. Date and Time: 02-MAY-2013 17:26
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/03/2013

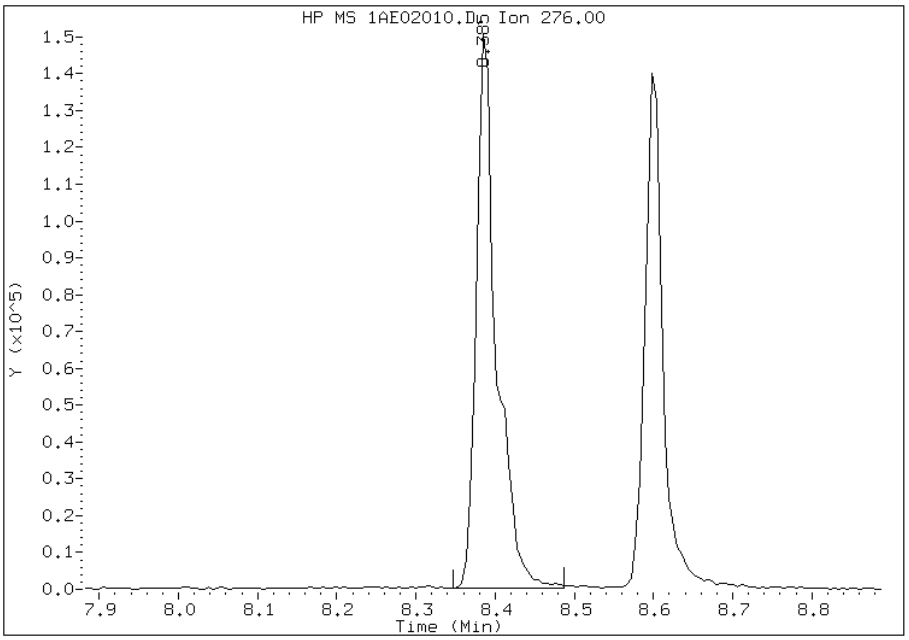
Processing Integration Results

RT: 8.39

Response: 264936

Amount: 7

Conc: 462



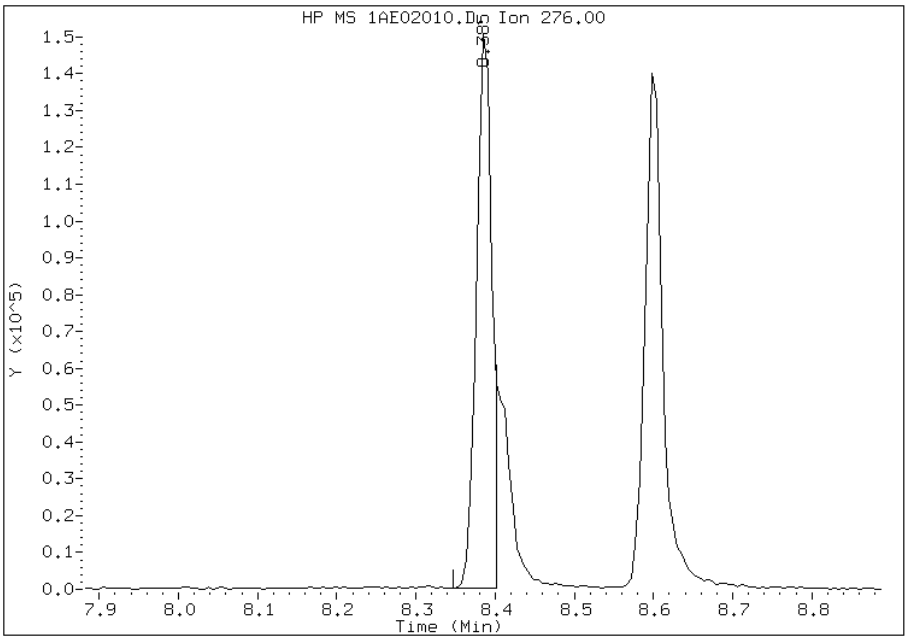
Manual Integration Results

RT: 8.39

Response: 202634

Amount: 5

Conc: 353



Manually Integrated By: cantins
Modification Date: 03-May-2013 10:25
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: | Lab Sample ID: LCS 660-137037/2-A

Matrix: Solid | Lab File ID: 1AE06017.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 05/02/2013 08:14

Sample wt/vol: 15.03(g) | Date Analyzed: 05/06/2013 14:52

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137156 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	411		100	20
208-96-8	Acenaphthylene	463		40	5.0
120-12-7	Anthracene	452		8.4	4.2
56-55-3	Benzo[a]anthracene	465		8.0	3.9
50-32-8	Benzo[a]pyrene	384		10	5.2
205-99-2	Benzo[b]fluoranthene	375		12	6.1
191-24-2	Benzo[g,h,i]perylene	545		20	4.4
207-08-9	Benzo[k]fluoranthene	405		8.0	3.6
218-01-9	Chrysene	416		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	537		20	4.1
206-44-0	Fluoranthene	427		20	4.0
86-73-7	Fluorene	467		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	522		20	7.1
90-12-0	1-Methylnaphthalene	469		40	4.4
91-57-6	2-Methylnaphthalene	475		40	7.1
91-20-3	Naphthalene	425		40	4.4
85-01-8	Phenanthrene	451		8.0	3.9
129-00-0	Pyrene	557		20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06017.D
Lab Smp Id: LCS 660-137037/2-A
Inj Date : 06-MAY-2013 14:52
Operator : SCC Inst ID: BSMA5973.i
Smp Info : LCS 660-137037/2-A
Misc Info : RE-RUN
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\a-bFASTPAHi-m.m
Meth Date : 06-May-2013 13:03 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 17 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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.030	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	2.548	2.544	(1.000)	1196490	40.0000	
* 6	Acenaphthene-d10	164	3.574	3.575	(1.000)	655641	40.0000	
* 10	Phenanthrene-d10	188	4.525	4.521	(1.000)	1074740	40.0000	
$ 14	o-Terphenyl	230	4.819	4.820	(1.065)	107382	6.98107	464.4760
* 18	Chrysene-d12	240	6.539	6.535	(1.000)	711012	40.0000	
* 23	Perylene-d12	264	7.629	7.630	(1.000)	850953	40.0000	
2	Naphthalene	128	2.559	2.555	(1.004)	179860	6.38337	424.7085
3	2-Methylnaphthalene	141	2.960	2.961	(1.161)	102207	7.13755	474.8867
4	1-Methylnaphthalene	142	3.018	3.014	(1.184)	121073	7.05403	469.3301
5	Acenaphthylene	152	3.483	3.484	(0.975)	214322	6.95672	462.8556
7	Acenaphthene	154	3.590	3.591	(1.004)	109187	6.17140	410.6053
9	Fluorene	166	3.905	3.901	(1.093)	141574	7.02167	467.1769
11	Phenanthrene	178	4.536	4.537	(1.002)	180379	6.77459	450.7379
12	Anthracene	178	4.568	4.569	(1.009)	192502	6.78717	451.5747

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	4.706	4.702	(1.040)	169686	6.65401	442.7155
15 Fluoranthene	202	5.401	5.397	(1.194)	196556	6.41697	426.9439
16 Pyrene	202	5.567	5.562	(0.851)	191293	8.36999	556.8853
17 Benzo(a)anthracene	228	6.533	6.524	(0.999)	139680	6.99012	465.0776
19 Chrysene	228	6.555	6.551	(1.002)	140502	6.24919	415.7813
20 Benzo(b)fluoranthene	252	7.345	7.347	(0.963)	126680	5.63220	374.7302
21 Benzo(k)fluoranthene	252	7.367	7.368	(0.966)	170030	6.09352	405.4239
22 Benzo(a)pyrene	252	7.575	7.576	(0.993)	133352	5.77299	384.0978
24 Indeno(1,2,3-cd)pyrene	276	8.377	8.388	(1.098)	151835	7.84623	522.0378(M)
25 Dibenzo(a,h)anthracene	278	8.403	8.414	(1.102)	159970	8.06452	536.5615
26 Benzo(g,h,i)perylene	276	8.590	8.602	(1.126)	170406	8.18891	544.8378

QC Flag Legend

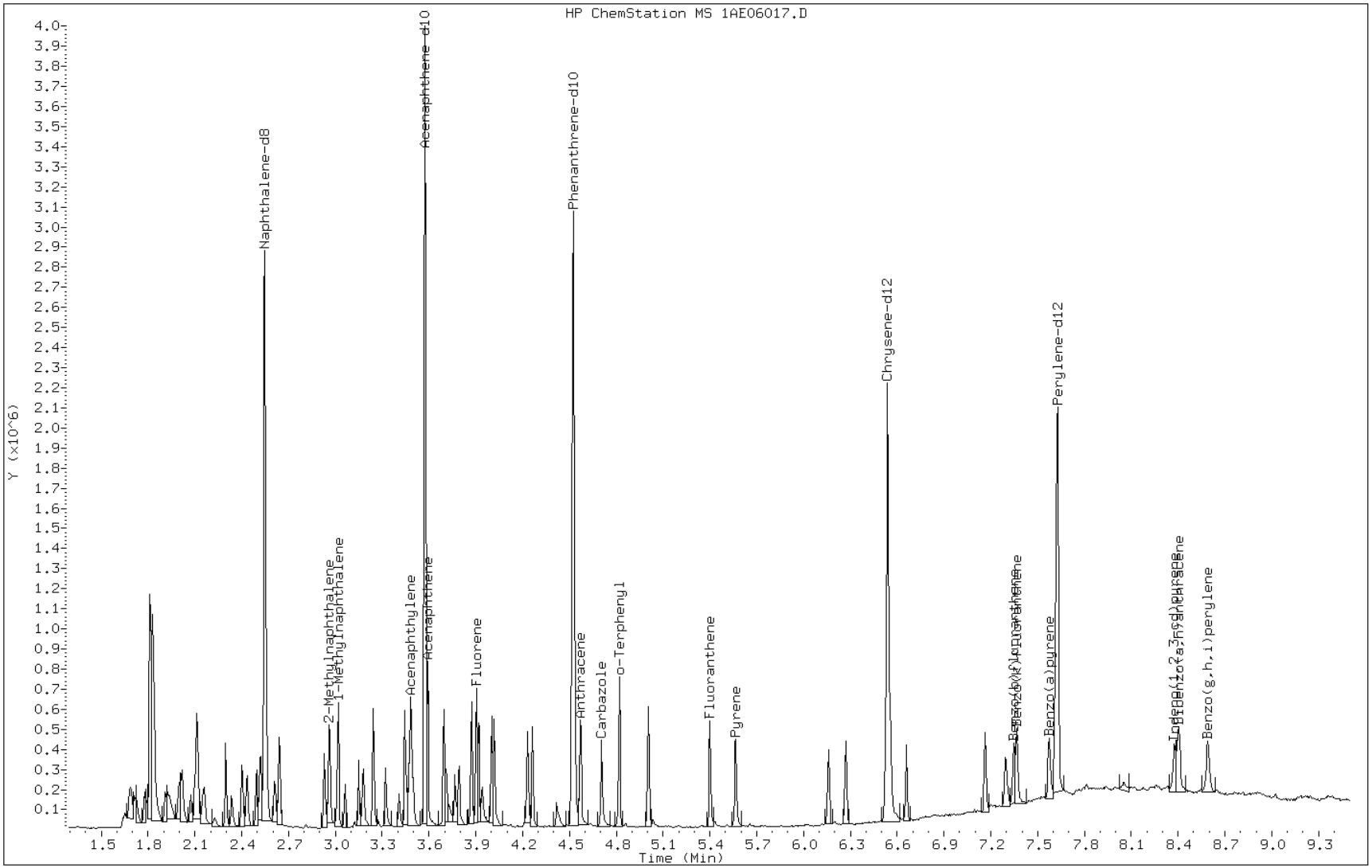
M - Compound response manually integrated.

Data File: 1AE06017.D

Date: 06-MAY-2013 14:52

Client ID: Instrument: BSMA5973.i

Sample Info: LCS 660-137037/2-A Operator: SCC



Manual Integration Report

Data File: 1AE06017.D
Inj. Date and Time: 06-MAY-2013 14:52
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/06/2013

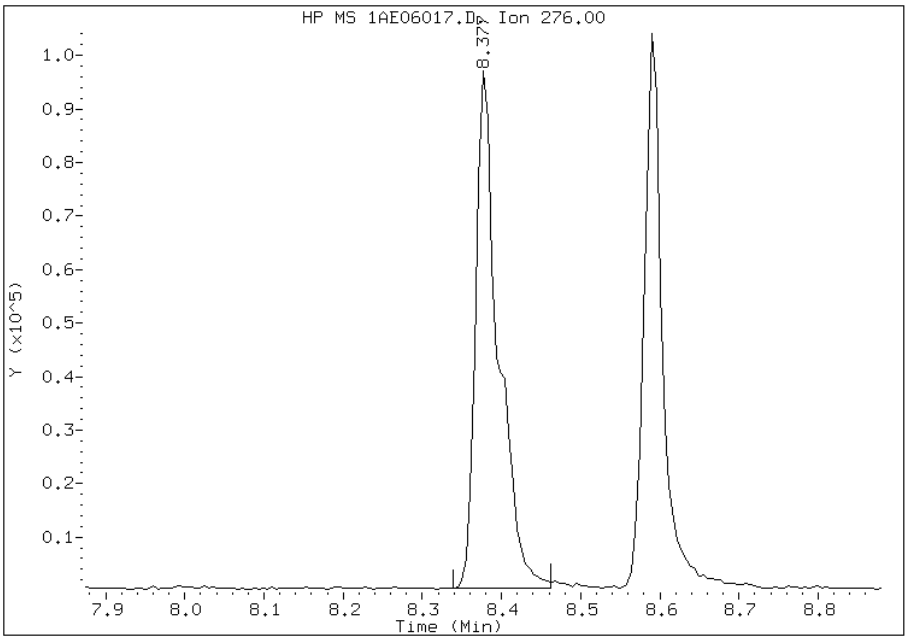
Processing Integration Results

RT: 8.38

Response: 191130

Amount: 10

Conc: 657



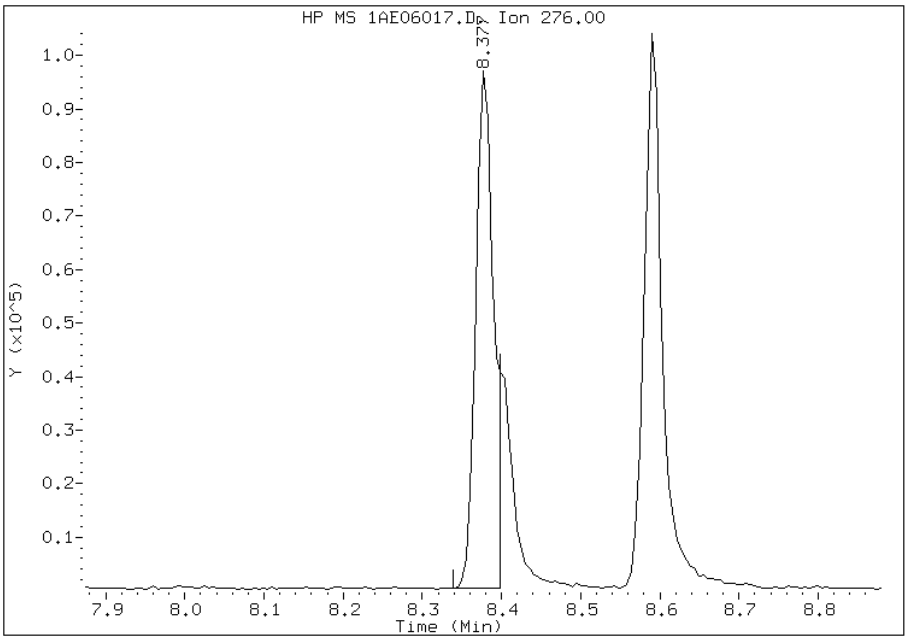
Manual Integration Results

RT: 8.38

Response: 151835

Amount: 8

Conc: 522



Manually Integrated By: cantins
Modification Date: 06-May-2013 15:13
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: | Lab Sample ID: 680-89791-A-41-B MS

Matrix: Solid | Lab File ID: 1DE03013.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 05/02/2013 08:14

Sample wt/vol: 14.98(g) | Date Analyzed: 05/03/2013 14:29

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 24.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137126 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	413		130	27
208-96-8	Acenaphthylene	435		53	6.7
120-12-7	Anthracene	482		11	5.6
56-55-3	Benzo[a]anthracene	512		11	5.2
50-32-8	Benzo[a]pyrene	454		14	6.9
205-99-2	Benzo[b]fluoranthene	492		16	8.1
191-24-2	Benzo[g,h,i]perylene	522		27	5.9
207-08-9	Benzo[k]fluoranthene	587		11	4.8
218-01-9	Chrysene	540		12	6.0
53-70-3	Dibenz(a,h)anthracene	535		27	5.5
206-44-0	Fluoranthene	506		27	5.3
86-73-7	Fluorene	449		27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	402		27	9.5
90-12-0	1-Methylnaphthalene	561		53	5.9
91-57-6	2-Methylnaphthalene	481		53	9.5
91-20-3	Naphthalene	480		53	5.9
85-01-8	Phenanthrene	457		11	5.2
129-00-0	Pyrene	479		27	4.9

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D050313.b\1DE03013.D
Lab Smp Id: 680-89791-a-41-b ms
Inj Date : 03-MAY-2013 14:29
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89791-a-41-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D050313.b\dFASTPAHi.m
Meth Date : 03-May-2013 10:55 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 14 QC Sample: MS
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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	6.002	6.004	(1.000)	1448369	40.0000	
* 6	Acenaphthene-d10	164	7.688	7.690	(1.000)	958532	40.0000	
* 9	Phenanthrene-d10	188	8.951	8.953	(1.000)	1598117	40.0000	
$ 13	o-Terphenyl	230	9.257	9.259	(1.034)	123958	5.14788	340
* 17	Chrysene-d12	240	11.260	11.257	(1.000)	1618699	40.0000	
* 22	Perylene-d12	264	13.076	13.066	(1.000)	1612211	40.0000	
2	Naphthalene	128	6.025	6.027	(1.004)	194503	5.40287	360(M)
3	2-Methylnaphthalene	142	6.736	6.738	(1.122)	125811	5.41376	360
4	1-Methylnaphthalene	142	6.830	6.826	(1.138)	138520	6.31192	420(M)
5	Acenaphthylene	152	7.565	7.561	(0.984)	198836	4.90116	330
7	Acenaphthene	154	7.718	7.714	(1.004)	116409	4.64854	310
8	Fluorene	166	8.158	8.160	(1.061)	150016	5.05874	340
10	Phenanthrene	178	8.969	8.971	(1.002)	226678	5.14948	340
11	Anthracene	178	9.010	9.012	(1.007)	236931	5.42291	360

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.157	9.159	(1.023)	175933	4.56519	300(R)
14 Fluoranthene	202	9.956	9.958	(1.112)	258282	5.70180	380
15 Pyrene	202	10.144	10.146	(0.901)	262167	5.39334	360
16 Benzo(a)anthracene	228	11.243	11.239	(0.998)	270033	5.76996	380
18 Chrysene	228	11.284	11.280	(1.002)	266715	6.07806	400
19 Benzo(b)fluoranthene	252	12.530	12.526	(0.958)	222985	5.53678	370
20 Benzo(k)fluoranthene	252	12.565	12.567	(0.961)	280377	6.60827	440(M)
21 Benzo(a)pyrene	252	12.982	12.978	(0.993)	206801	5.11056	340
23 Indeno(1,2,3-cd)pyrene	276	14.656	14.647	(1.121)	195117	4.52203	300(M)
24 Dibenzo(a,h)anthracene	278	14.674	14.670	(1.122)	244848	6.02600	400(M)
25 Benzo(g,h,i)perylene	276	15.085	15.081	(1.154)	244104	5.87556	390(M)

QC Flag Legend

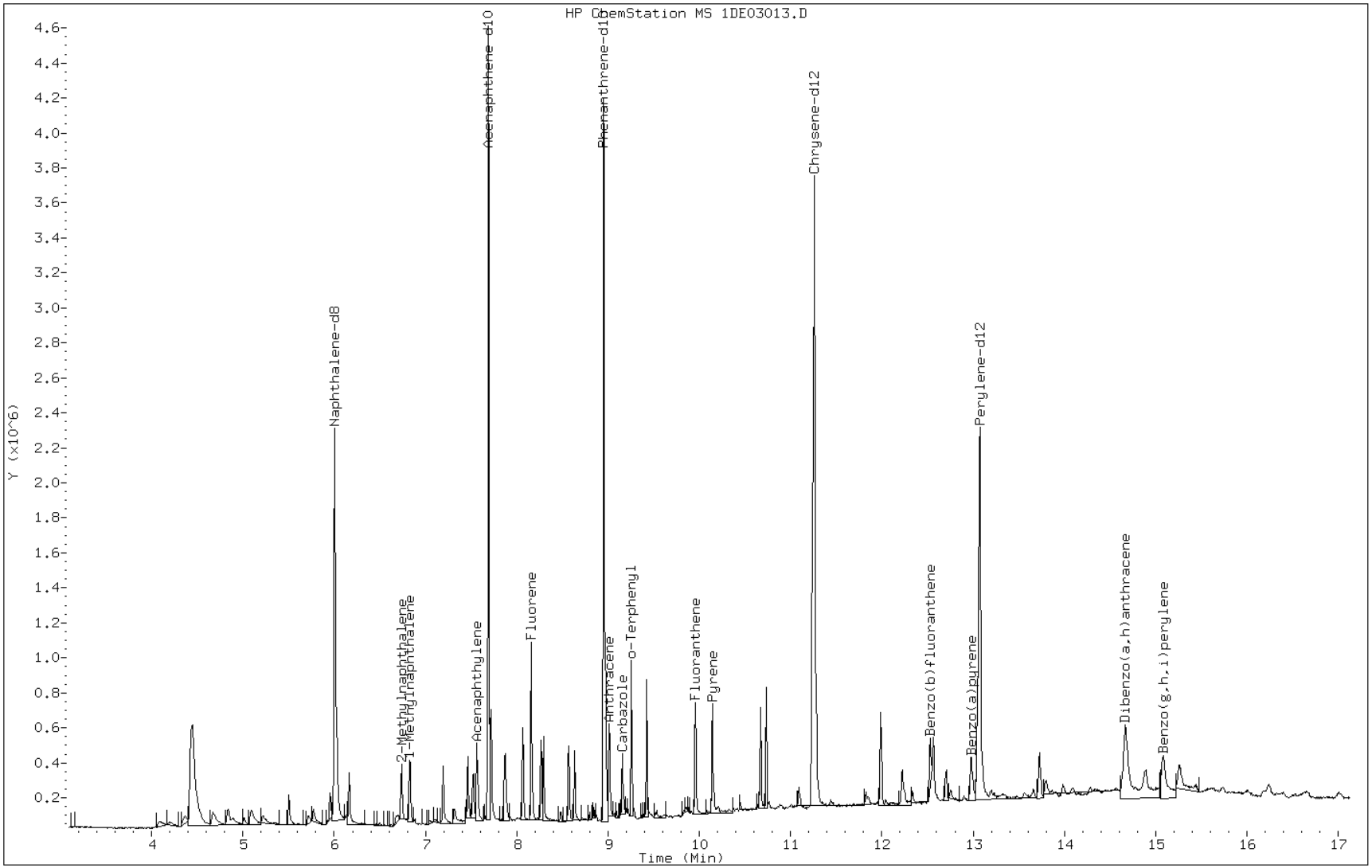
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DE03013.D

Date: 03-MAY-2013 14:29

Client ID: Instrument: BSMSD.i

Sample Info: 680-89791-a-41-b ms Operator: SCC



Manual Integration Report

Data File: 1DE03013.D
Inj. Date and Time: 03-MAY-2013 14:29
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/06/2013

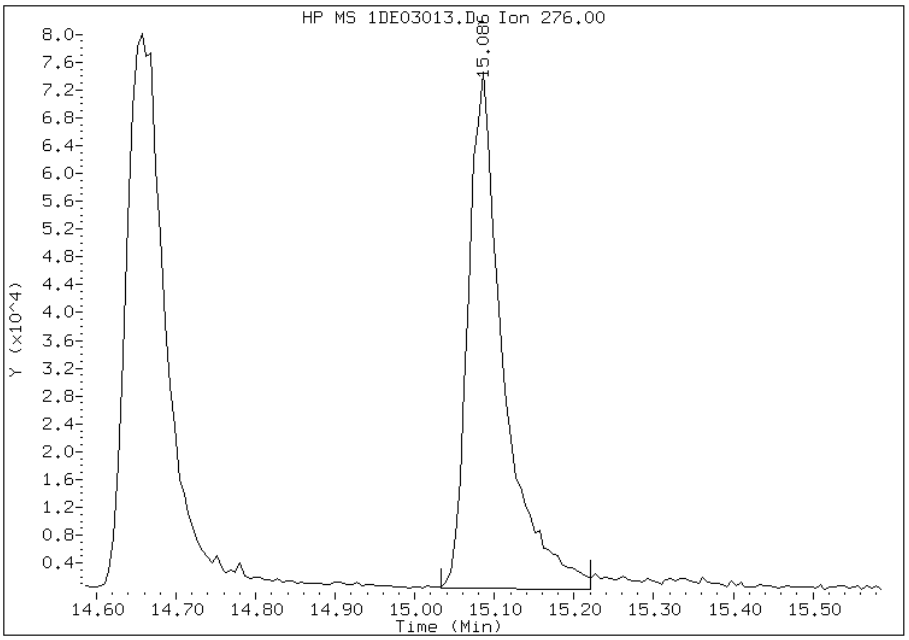
Processing Integration Results

RT: 15.09

Response: 228703

Amount: 6

Conc: 367



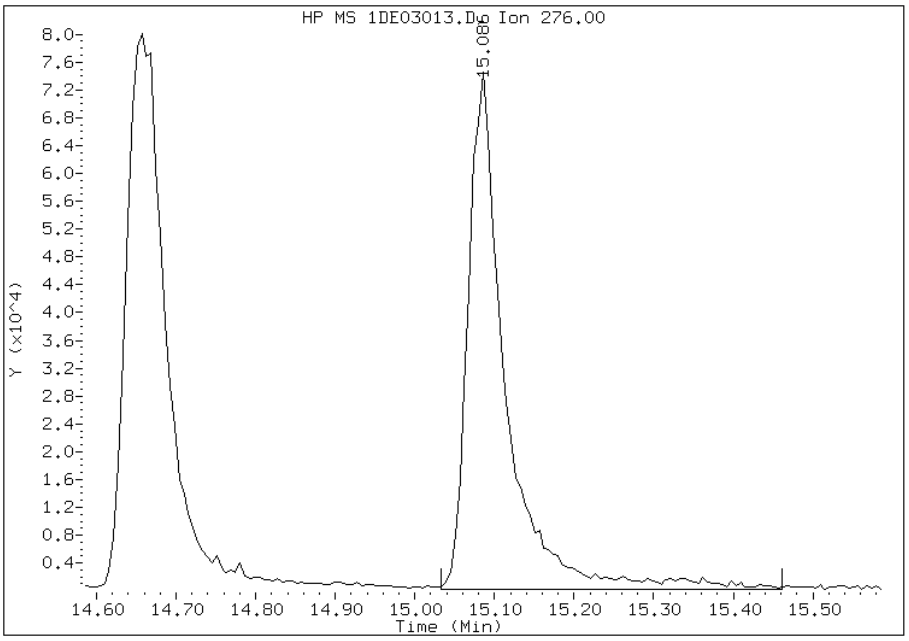
Manual Integration Results

RT: 15.09

Response: 244104

Amount: 6

Conc: 392



Manually Integrated By: cantins
Modification Date: 06-May-2013 14:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03013.D
Inj. Date and Time: 03-MAY-2013 14:29
Instrument ID: BSMSD.i
Client ID:
Compound: 20 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/06/2013

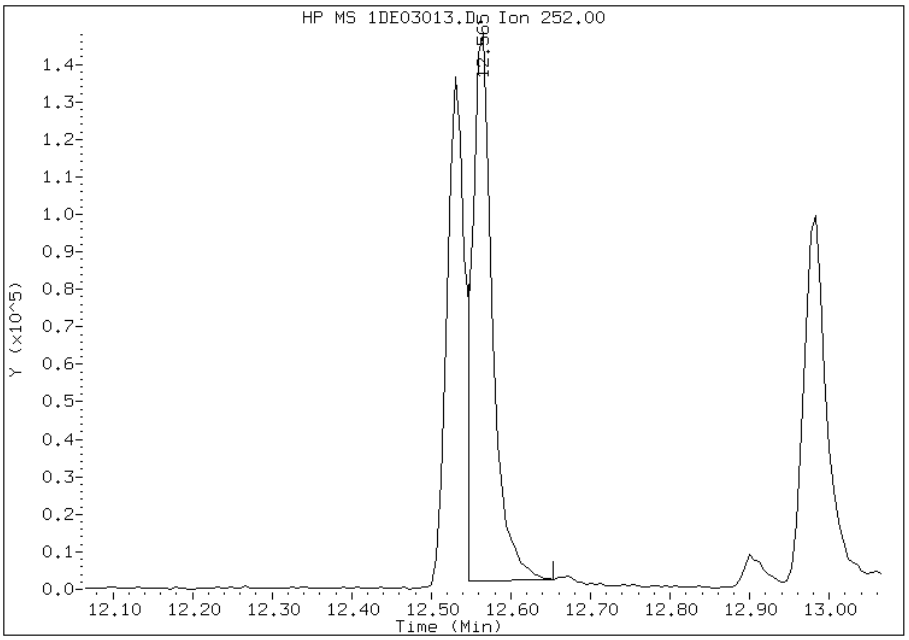
Processing Integration Results

RT: 12.57

Response: 260100

Amount: 6

Conc: 409



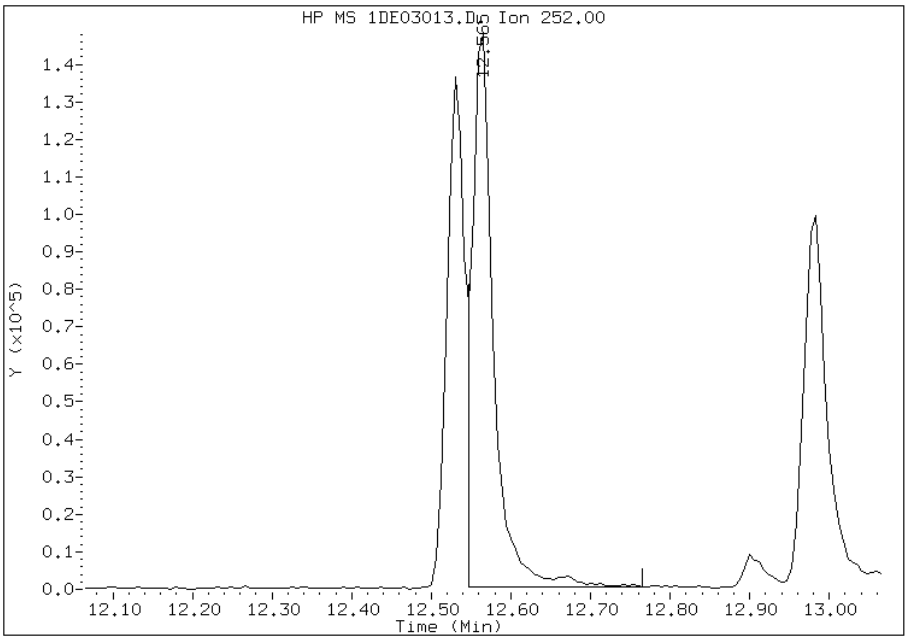
Manual Integration Results

RT: 12.57

Response: 280377

Amount: 7

Conc: 441



Manually Integrated By: cantins
Modification Date: 06-May-2013 14:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03013.D
Inj. Date and Time: 03-MAY-2013 14:29
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/06/2013

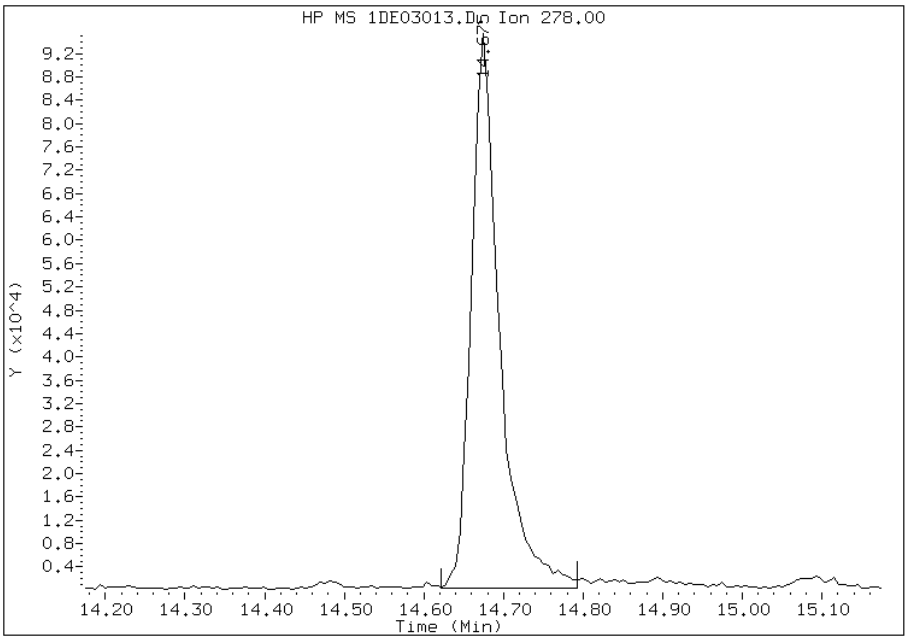
Processing Integration Results

RT: 14.67

Response: 235040

Amount: 6

Conc: 386



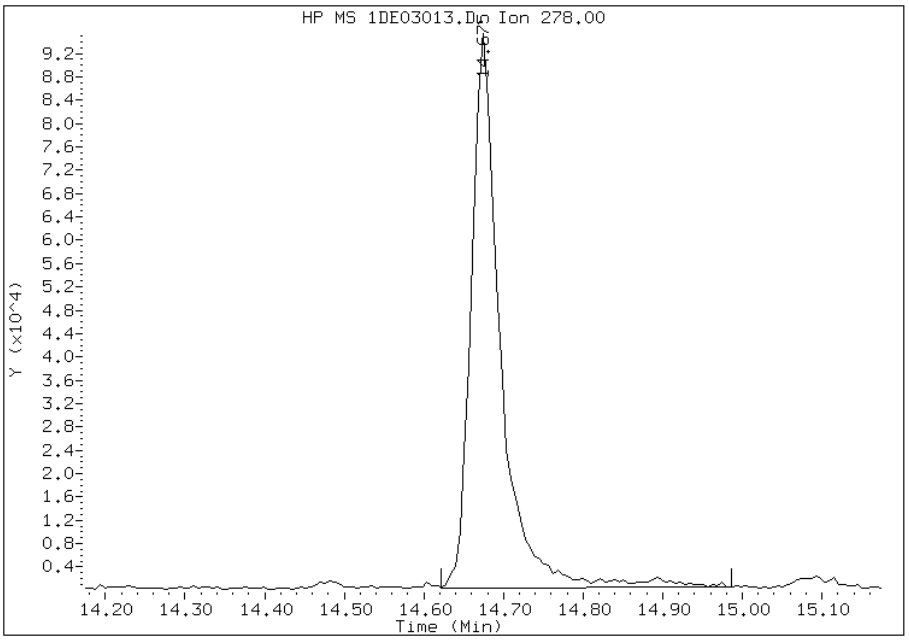
Manual Integration Results

RT: 14.67

Response: 244848

Amount: 6

Conc: 402



Manually Integrated By: cantins
Modification Date: 06-May-2013 14:23
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03013.D
Inj. Date and Time: 03-MAY-2013 14:29
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/06/2013

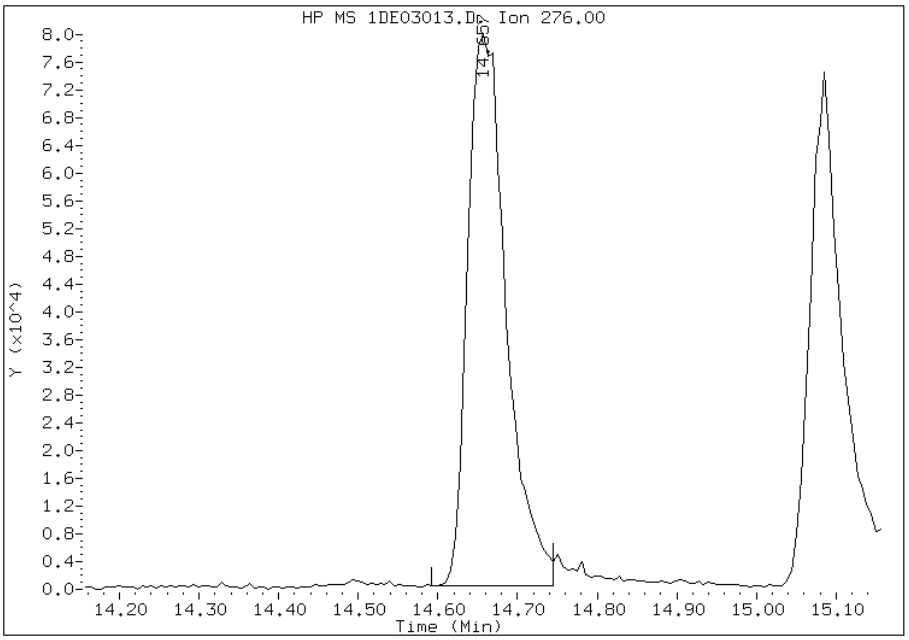
Processing Integration Results

RT: 14.66

Response: 268646

Amount: 6

Conc: 416



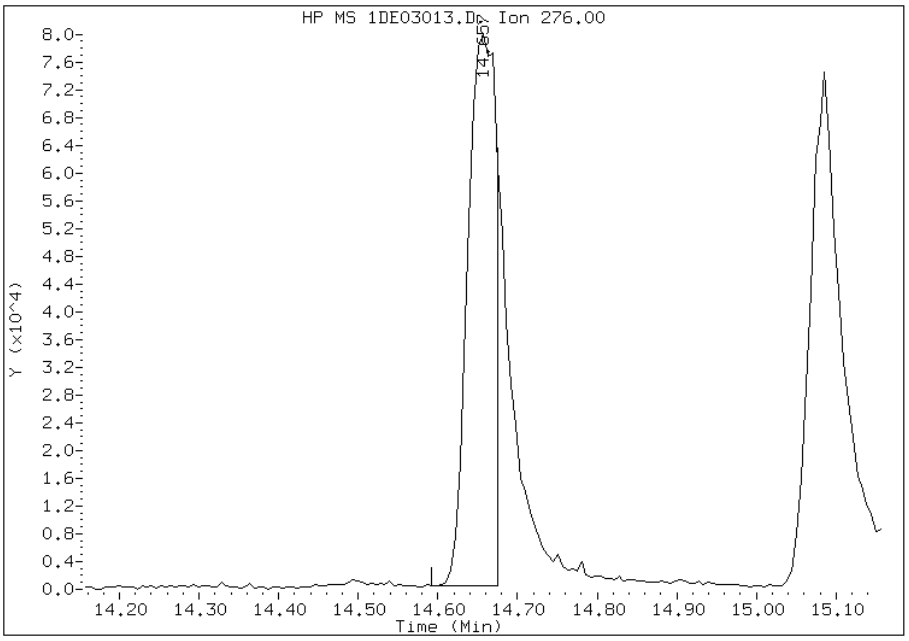
Manual Integration Results

RT: 14.66

Response: 195117

Amount: 5

Conc: 302



Manually Integrated By: cantins
Modification Date: 06-May-2013 14:23
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DE03013.D
Inj. Date and Time: 03-MAY-2013 14:29
Instrument ID: BSMSD.i
Client ID:
Compound: 4 1-Methylnaphthalene
CAS #: 90-12-0
Report Date: 05/06/2013

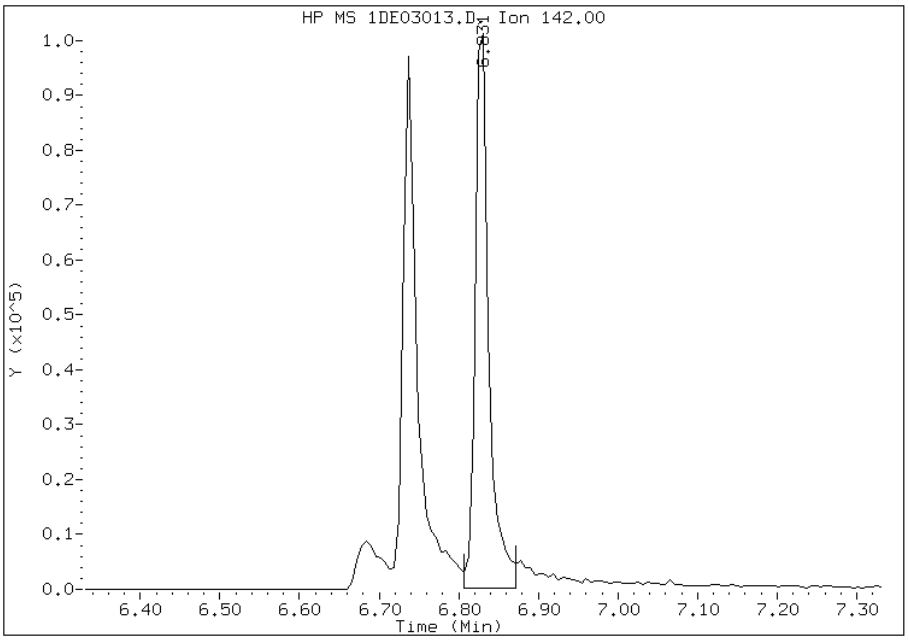
Processing Integration Results

RT: 6.83

Response: 120161

Amount: 5

Conc: 366



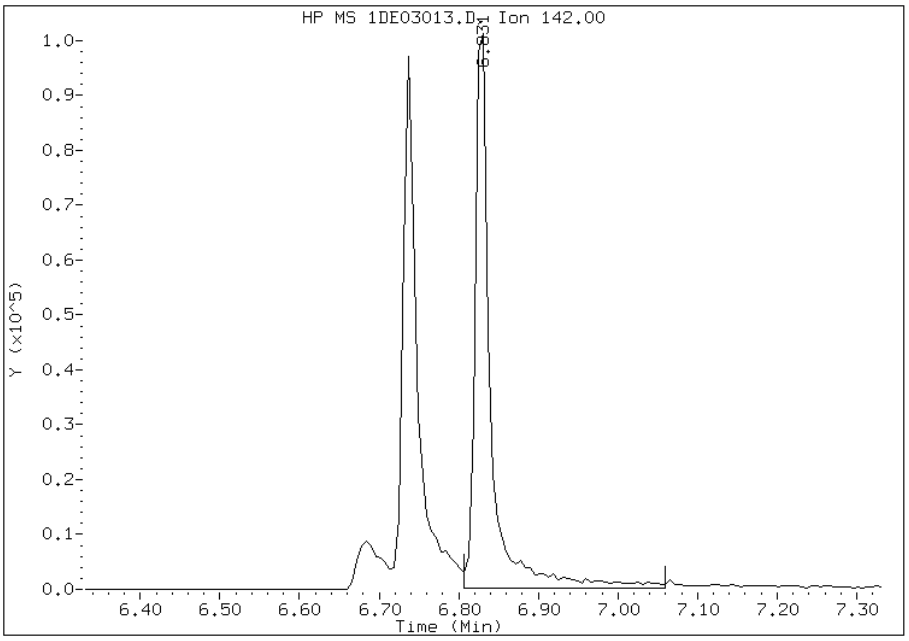
Manual Integration Results

RT: 6.83

Response: 138520

Amount: 6

Conc: 421



Manually Integrated By: cantins
Modification Date: 06-May-2013 14:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03013.D
Inj. Date and Time: 03-MAY-2013 14:29
Instrument ID: BSMSD.i
Client ID:
Compound: 2 Naphthalene
CAS #: 91-20-3
Report Date: 05/06/2013

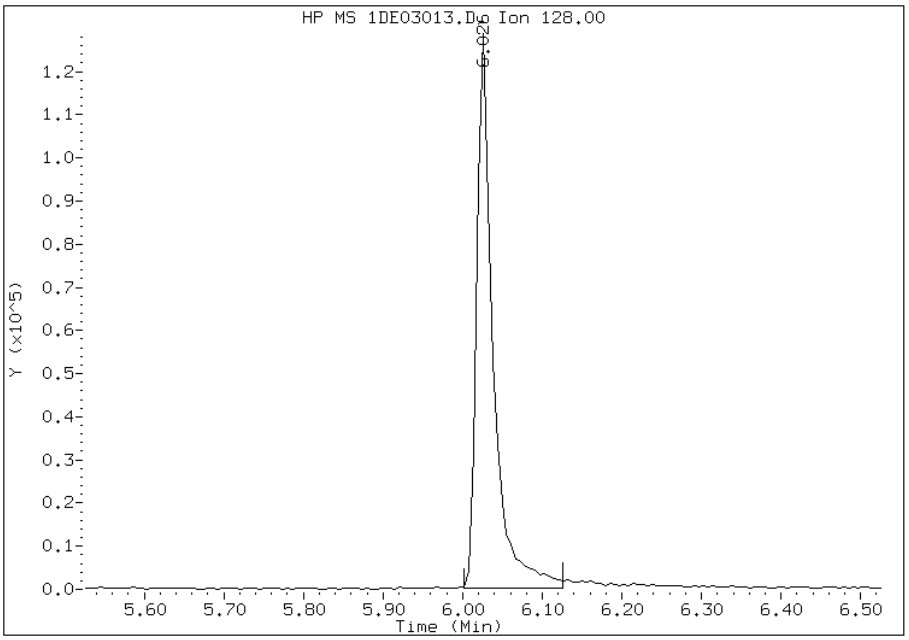
Processing Integration Results

RT: 6.03

Response: 182427

Amount: 5

Conc: 338



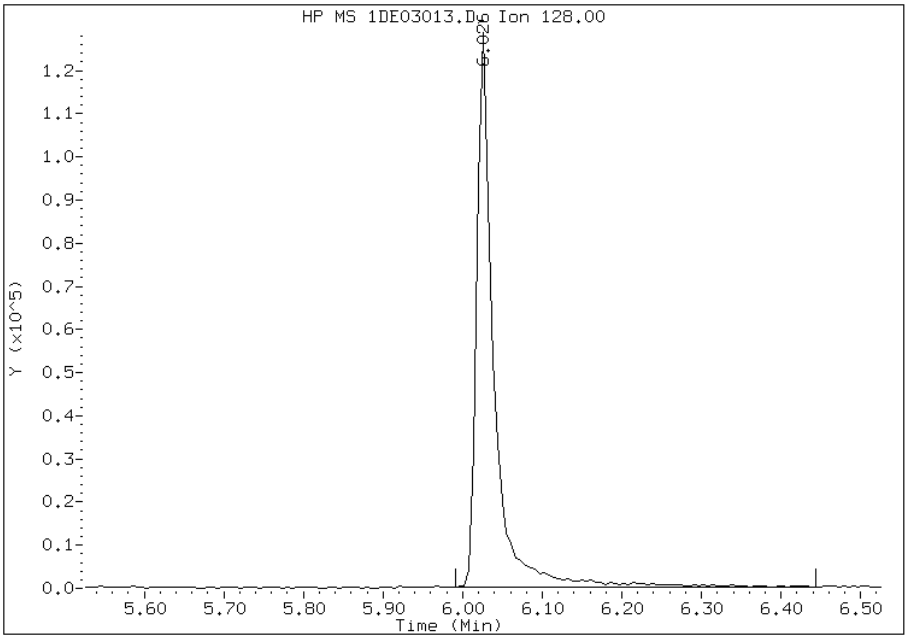
Manual Integration Results

RT: 6.03

Response: 194503

Amount: 5

Conc: 361



Manually Integrated By: cantins
Modification Date: 06-May-2013 14:21
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: CV0752C-GS-SP MS | Lab Sample ID: 680-89791-22 MS

Matrix: Solid | Lab File ID: 1AE02018.D

Analysis Method: 8270C LL | Date Collected: 04/25/2013 09:23

Extract. Method: 3546 | Date Extracted: 04/30/2013 14:42

Sample wt/vol: 15.01(g) | Date Analyzed: 05/02/2013 19:27

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137070 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	358	J	470	94
208-96-8	Acenaphthylene	342		190	24
120-12-7	Anthracene	418		39	20
56-55-3	Benzo[a]anthracene	509		38	18
50-32-8	Benzo[a]pyrene	382		49	24
205-99-2	Benzo[b]fluoranthene	447		57	29
191-24-2	Benzo[g,h,i]perylene	398		94	21
207-08-9	Benzo[k]fluoranthene	409		38	17
218-01-9	Chrysene	437		42	21
53-70-3	Dibenz(a,h)anthracene	488		94	19
206-44-0	Fluoranthene	404		94	19
86-73-7	Fluorene	404		94	19
193-39-5	Indeno[1,2,3-cd]pyrene	443		94	33
90-12-0	1-Methylnaphthalene	393		190	21
91-57-6	2-Methylnaphthalene	382		190	33
91-20-3	Naphthalene	356		190	21
85-01-8	Phenanthrene	424		38	18
129-00-0	Pyrene	427		94	17

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02018.D
Lab Smp Id: 680-89791-a-22-b ms
Inj Date : 02-MAY-2013 19:27
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89791-a-22-b ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\a-bFASTPAHi-m.m
Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 15 QC Sample: MS
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.010	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.553	2.550	(1.000)	1232986	40.0000	
* 6 Acenaphthene-d10	164	3.584	3.581	(1.000)	663075	40.0000	
* 10 Phenanthrene-d10	188	4.535	4.532	(1.000)	966784	40.0000	
$ 14 o-Terphenyl	230	4.834	4.831	(1.066)	21842	1.38126	368.0898
* 18 Chrysene-d12	240	6.560	6.551	(1.000)	761987	40.0000	
* 23 Perylene-d12	264	7.650	7.641	(1.000)	887669	40.0000	
2 Naphthalene	128	2.564	2.560	(1.004)	34967	1.13448	302.3257
3 2-Methylnaphthalene	141	2.975	2.972	(1.165)	21561	1.22013	325.1523
4 1-Methylnaphthalene	142	3.029	3.025	(1.186)	24528	1.25283	333.8664
5 Acenaphthylene	152	3.494	3.490	(0.975)	42328	1.09228	291.0808
7 Acenaphthene	154	3.600	3.597	(1.004)	23221	1.14263	304.4972
9 Fluorene	166	3.916	3.912	(1.092)	31501	1.28835	343.3301
11 Phenanthrene	178	4.551	4.548	(1.004)	37893	1.35304	360.5706
12 Anthracene	178	4.583	4.580	(1.011)	38793	1.33218	355.0104

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.717	4.713	(1.040)	36480	1.29860	346.0615
15 Fluoranthene	202	5.417	5.413	(1.194)	41683	1.28861	343.3996
16 Pyrene	202	5.582	5.579	(0.851)	39626	1.36311	363.2531
17 Benzo(a)anthracene	228	6.549	6.540	(0.998)	40402	1.62360	432.6706
19 Chrysene	228	6.576	6.572	(1.002)	35227	1.39537	371.8515
20 Benzo(b)fluoranthene	252	7.367	7.363	(0.963)	38453	1.42688	380.2465
21 Benzo(k)fluoranthene	252	7.388	7.384	(0.966)	40435	1.30500	347.7682
22 Benzo(a)pyrene	252	7.596	7.593	(0.993)	32678	1.21890	324.8234(R)
24 Indeno(1,2,3-cd)pyrene	276	8.403	8.405	(1.098)	35773	1.41319	376.5995(M)
25 Dibenzo(a,h)anthracene	278	8.430	8.431	(1.102)	36648	1.55597	414.6498
26 Benzo(g,h,i)perylene	276	8.622	8.624	(1.127)	35940	1.26858	338.0635

QC Flag Legend

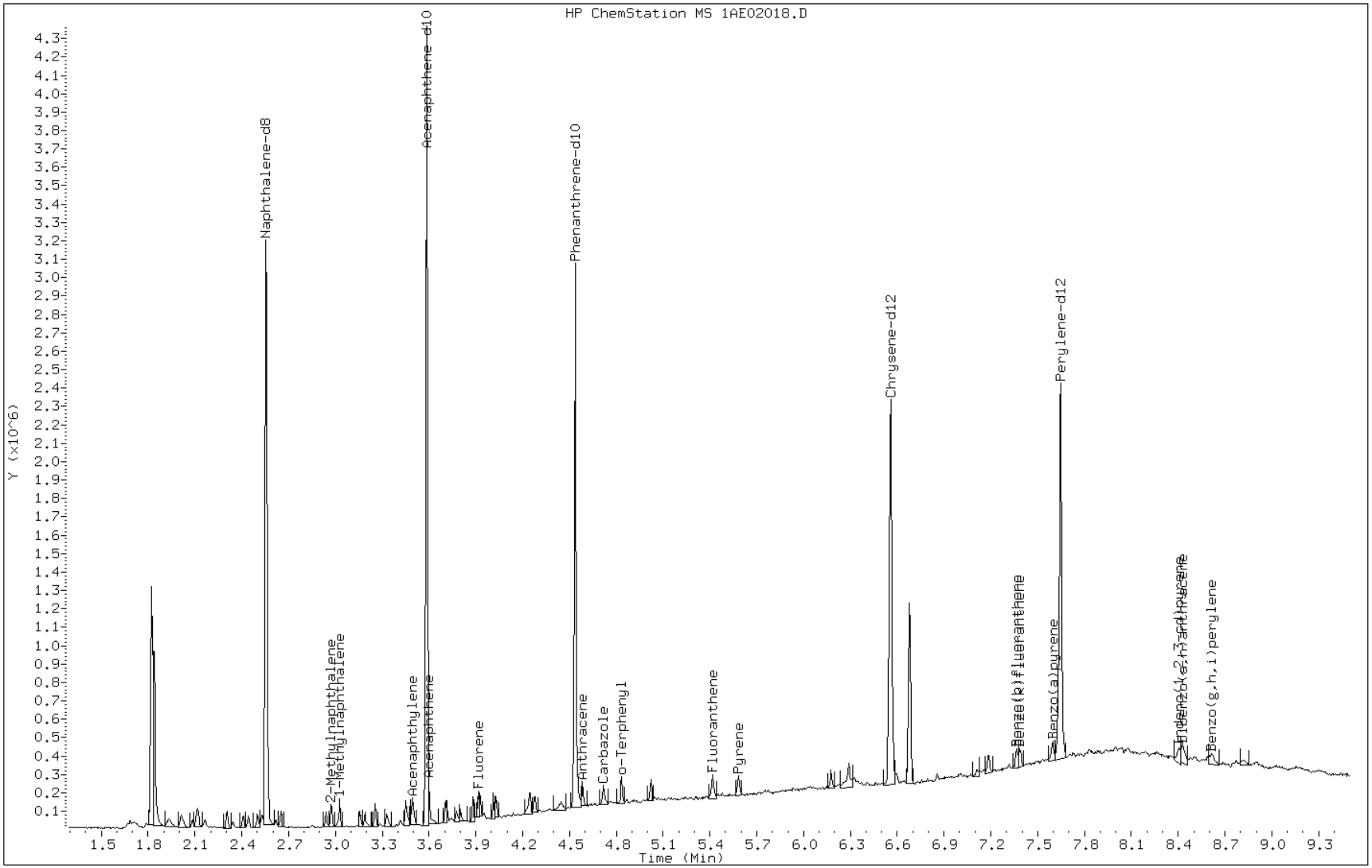
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1AE02018.D

Date: 02-MAY-2013 19:27

Client ID: Instrument: BSMA5973.i

Sample Info: 680-89791-a-22-b ms Operator: SCC



Manual Integration Report

Data File: 1AE02018.D
Inj. Date and Time: 02-MAY-2013 19:27
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/03/2013

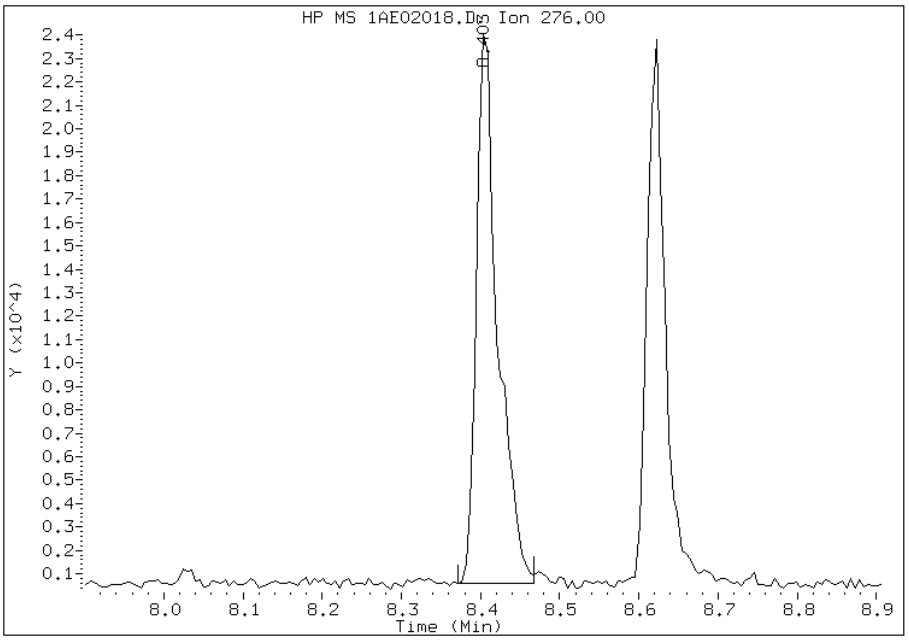
Processing Integration Results

RT: 8.40

Response: 43478

Amount: 2

Conc: 458



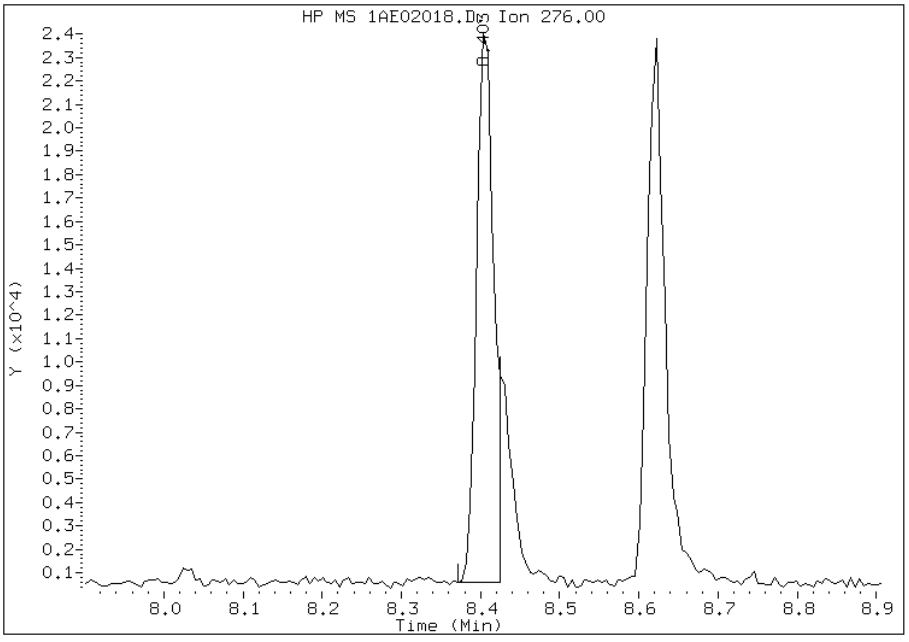
Manual Integration Results

RT: 8.40

Response: 35773

Amount: 1

Conc: 377



Manually Integrated By: cantins
Modification Date: 03-May-2013 10:47
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: | Lab Sample ID: 680-89791-A-41-C MSD

Matrix: Solid | Lab File ID: 1DE03014.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 05/02/2013 08:14

Sample wt/vol: 14.97(g) | Date Analyzed: 05/03/2013 14:52

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 24.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137126 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	522		130	27
208-96-8	Acenaphthylene	539		53	6.7
120-12-7	Anthracene	590		11	5.6
56-55-3	Benzo[a]anthracene	651		11	5.2
50-32-8	Benzo[a]pyrene	579		14	6.9
205-99-2	Benzo[b]fluoranthene	612		16	8.1
191-24-2	Benzo[g,h,i]perylene	636		27	5.9
207-08-9	Benzo[k]fluoranthene	767		11	4.8
218-01-9	Chrysene	678		12	6.0
53-70-3	Dibenz(a,h)anthracene	683		27	5.5
206-44-0	Fluoranthene	673		27	5.3
86-73-7	Fluorene	588		27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	483		27	9.5
90-12-0	1-Methylnaphthalene	591		53	5.9
91-57-6	2-Methylnaphthalene	571		53	9.5
91-20-3	Naphthalene	579		53	5.9
85-01-8	Phenanthrene	604		11	5.2
129-00-0	Pyrene	595		27	4.9

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D050313.b\1DE03014.D
Lab Smp Id: 680-89791-a-41-c ms
Inj Date : 03-MAY-2013 14:52
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89791-a-41-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D050313.b\dFASTPAHi.m
Meth Date : 03-May-2013 10:55 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 15 QC Sample: MSD
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/Ws * 100/(100 - M) * A * B * C * D * GPC * 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	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	6.002	6.004	(1.000)	1403708	40.0000	
* 6	Acenaphthene-d10	164	7.688	7.690	(1.000)	911374	40.0000	
* 9	Phenanthrene-d10	188	8.951	8.953	(1.000)	1478931	40.0000	
$ 13	o-Terphenyl	230	9.257	9.259	(1.034)	147269	6.60885	440
* 17	Chrysene-d12	240	11.260	11.257	(1.000)	1553244	40.0000	
* 22	Perylene-d12	264	13.070	13.066	(1.000)	1599186	40.0000	
2	Naphthalene	128	6.025	6.027	(1.004)	227249	6.51332	440(M)
3	2-Methylnaphthalene	142	6.736	6.738	(1.122)	144688	6.42415	430
4	1-Methylnaphthalene	142	6.830	6.826	(1.138)	141516	6.65360	440(M)
5	Acenaphthylene	152	7.559	7.561	(0.983)	233962	6.06539	400
7	Acenaphthene	154	7.718	7.714	(1.004)	139958	5.87811	390
8	Fluorene	166	8.158	8.160	(1.061)	186480	6.61374	440
10	Phenanthrene	178	8.969	8.971	(1.002)	276784	6.79447	450
11	Anthracene	178	9.010	9.012	(1.007)	268529	6.64144	440

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.157	9.159	(1.023)	207794	5.82646	390
14 Fluoranthene	202	9.956	9.958	(1.112)	317239	7.56772	500
15 Pyrene	202	10.144	10.146	(0.901)	312195	6.69317	450
16 Benzo(a)anthracene	228	11.243	11.239	(0.998)	329058	7.32748	490
18 Chrysene	228	11.284	11.280	(1.002)	321485	7.63492	510
19 Benzo(b)fluoranthene	252	12.530	12.526	(0.959)	275276	6.89085	460
20 Benzo(k)fluoranthene	252	12.565	12.567	(0.961)	363161	8.62914	580(M)
21 Benzo(a)pyrene	252	12.982	12.978	(0.993)	261302	6.51001	430
23 Indeno(1,2,3-cd)pyrene	276	14.662	14.647	(1.122)	232641	5.43560	360(M)
24 Dibenzo(a,h)anthracene	278	14.674	14.670	(1.123)	309684	7.68377	510(M)
25 Benzo(g,h,i)perylene	276	15.085	15.081	(1.154)	294959	7.15746	480(M)

QC Flag Legend

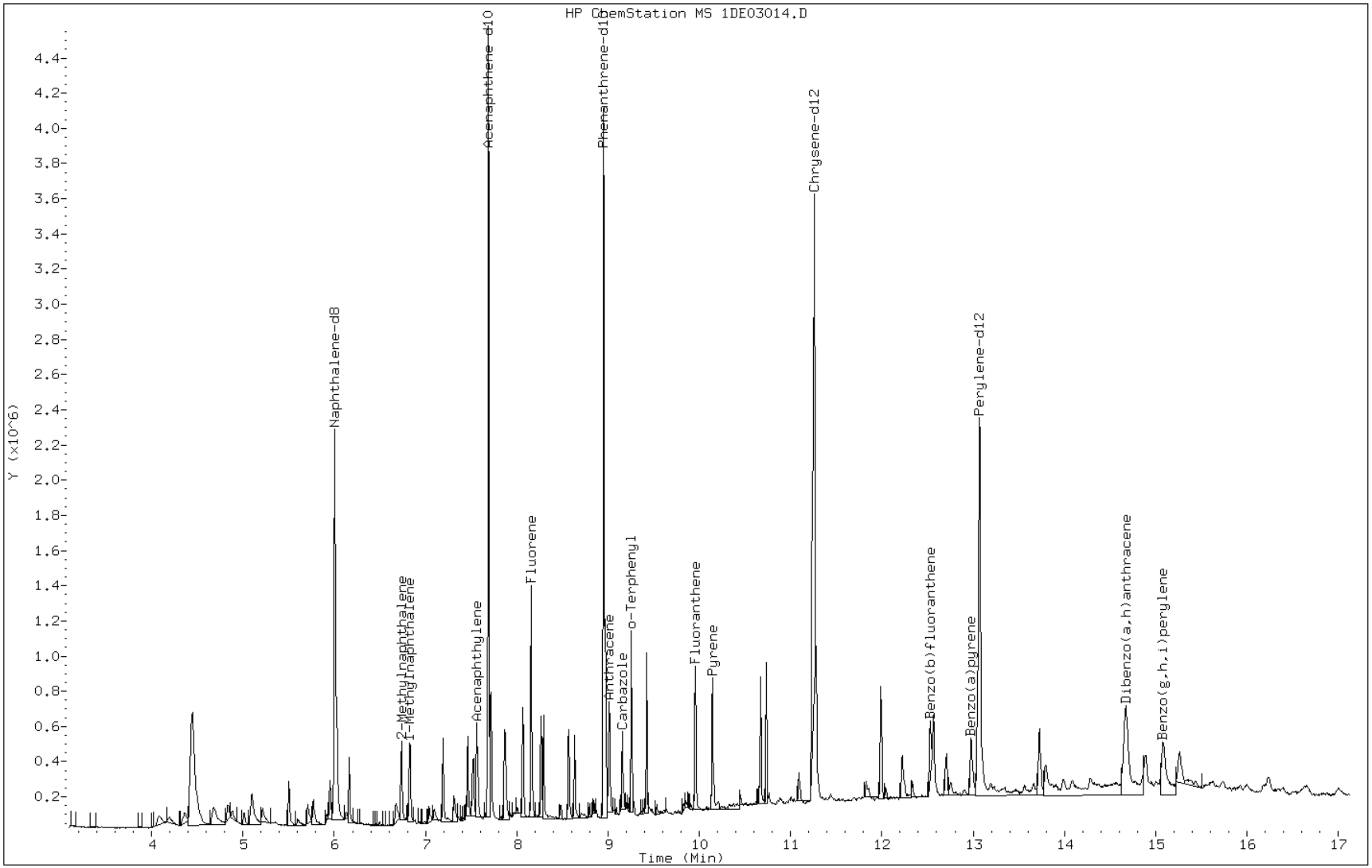
M - Compound response manually integrated.

Data File: 1DE03014.D

Date: 03-MAY-2013 14:52

Client ID: Instrument: BSMSD.i

Sample Info: 680-89791-a-41-c msd Operator: SCC



Manual Integration Report

Data File: 1DE03014.D
Inj. Date and Time: 03-MAY-2013 14:52
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/06/2013

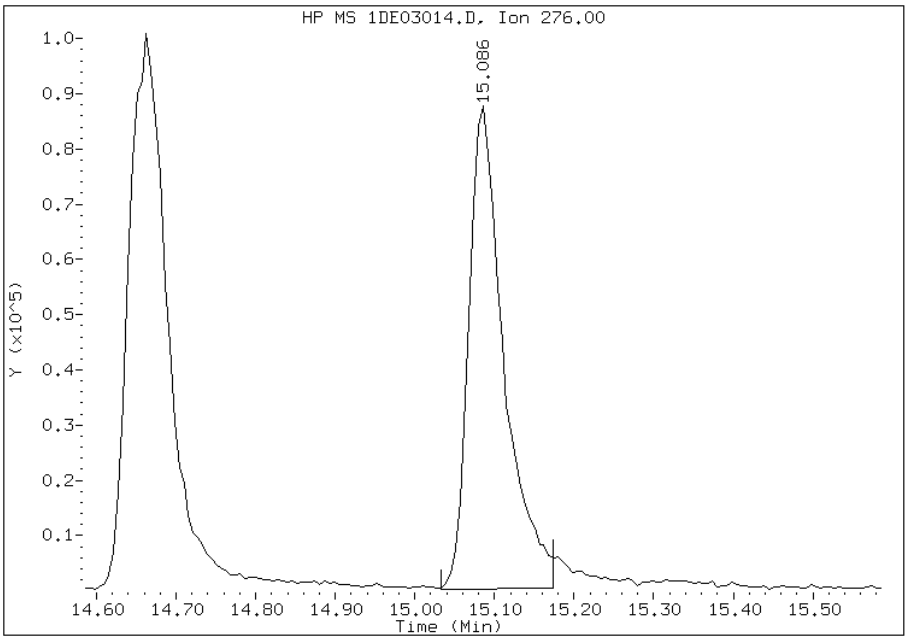
Processing Integration Results

RT: 15.09

Response: 268875

Amount: 7

Conc: 436



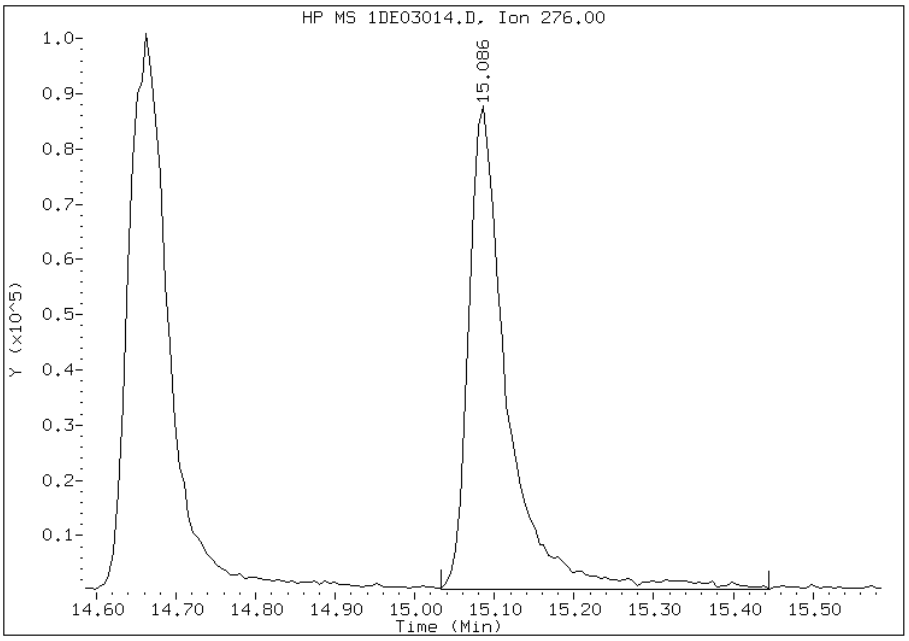
Manual Integration Results

RT: 15.09

Response: 294959

Amount: 7

Conc: 478



Manually Integrated By: cantins
Modification Date: 06-May-2013 15:45
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03014.D
Inj. Date and Time: 03-MAY-2013 14:52
Instrument ID: BSMSD.i
Client ID:
Compound: 20 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/06/2013

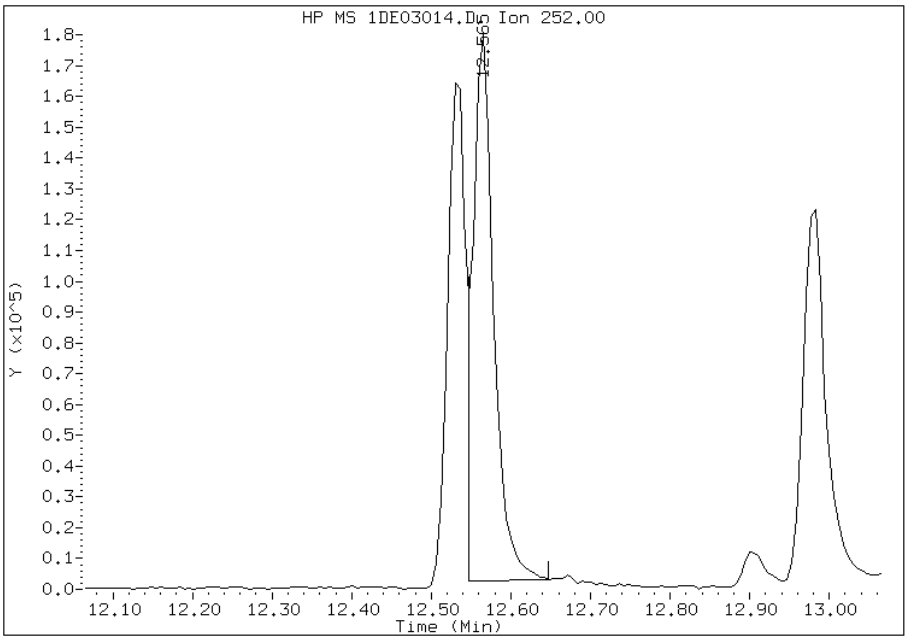
Processing Integration Results

RT: 12.57

Response: 327011

Amount: 8

Conc: 519



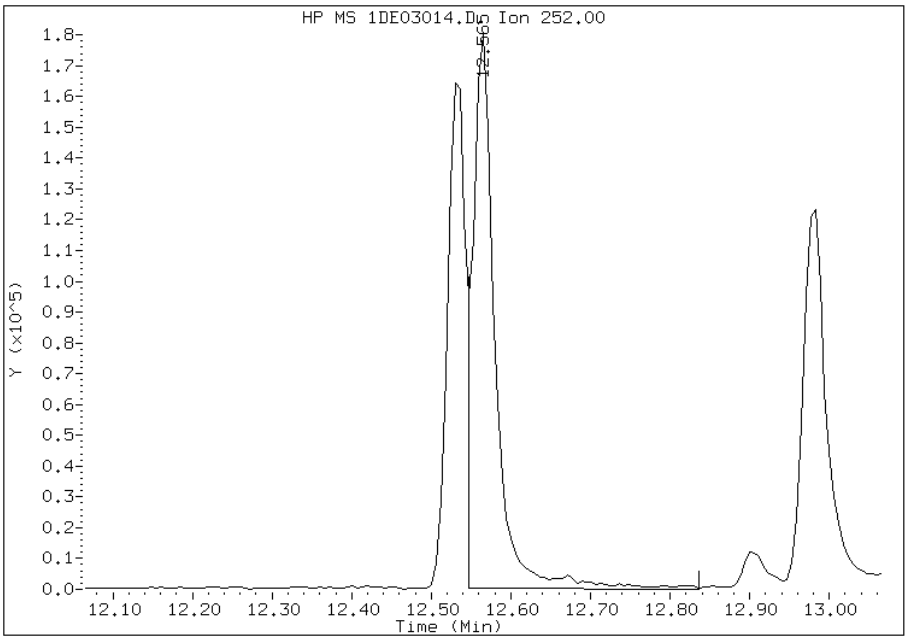
Manual Integration Results

RT: 12.57

Response: 363161

Amount: 9

Conc: 576



Manually Integrated By: cantins
Modification Date: 06-May-2013 15:45
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03014.D
Inj. Date and Time: 03-MAY-2013 14:52
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/06/2013

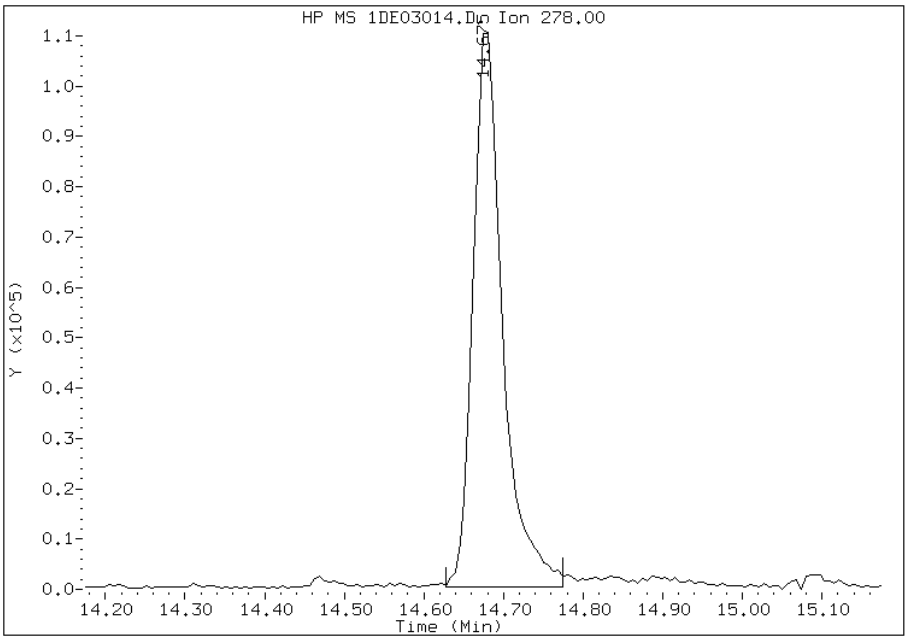
Processing Integration Results

RT: 14.67

Response: 285036

Amount: 7

Conc: 472



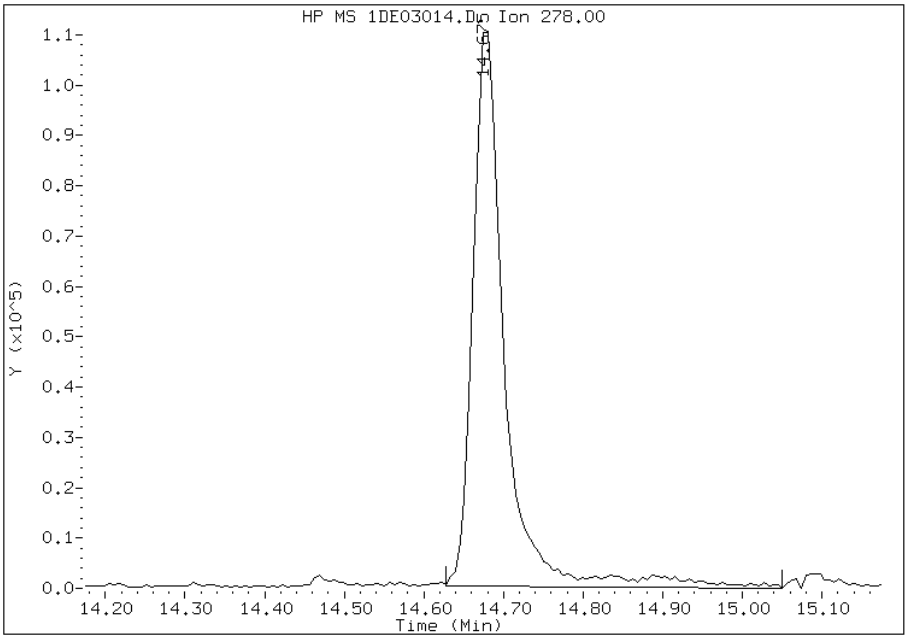
Manual Integration Results

RT: 14.67

Response: 309684

Amount: 8

Conc: 513



Manually Integrated By: cantins
Modification Date: 06-May-2013 15:45
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03014.D
Inj. Date and Time: 03-MAY-2013 14:52
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/06/2013

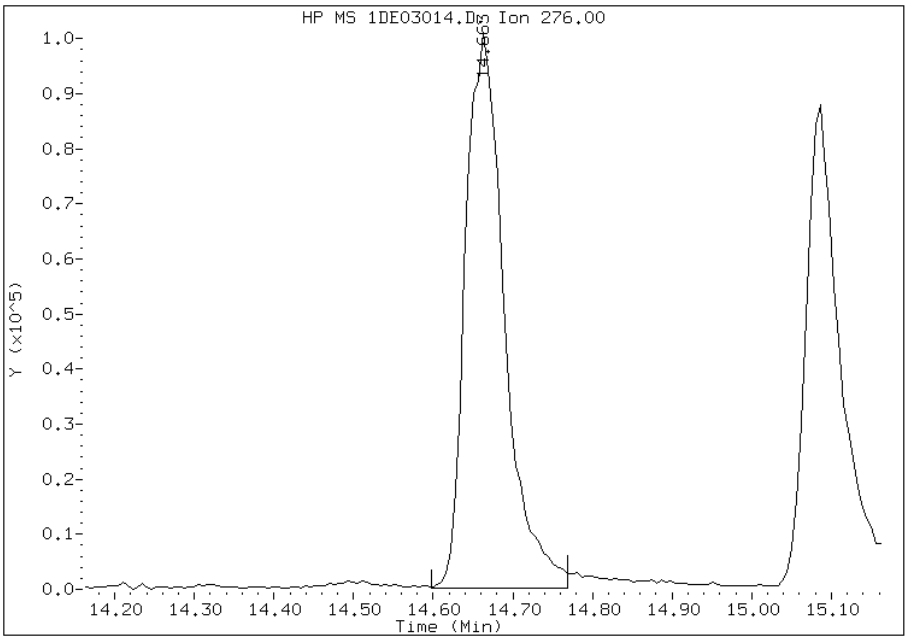
Processing Integration Results

RT: 14.66

Response: 343118

Amount: 8

Conc: 536



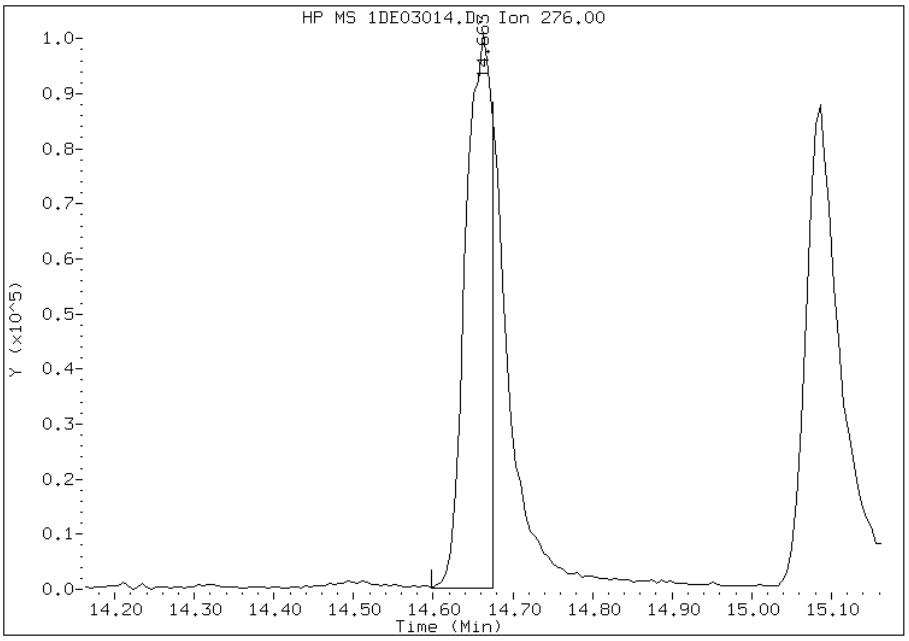
Manual Integration Results

RT: 14.66

Response: 232641

Amount: 5

Conc: 363



Manually Integrated By: cantins
Modification Date: 06-May-2013 15:45
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DE03014.D
Inj. Date and Time: 03-MAY-2013 14:52
Instrument ID: BSMSD.i
Client ID:
Compound: 4 1-Methylnaphthalene
CAS #: 90-12-0
Report Date: 05/06/2013

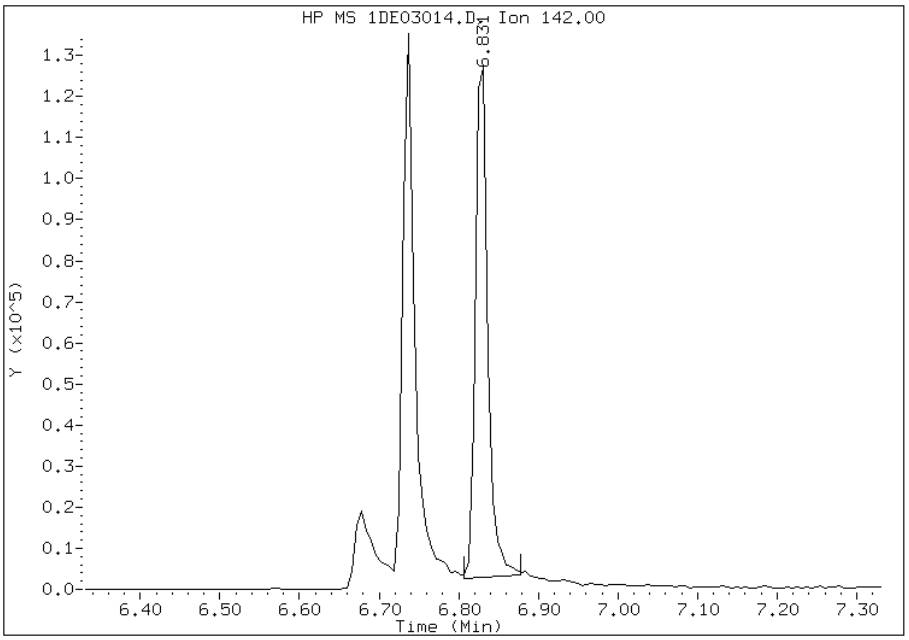
Processing Integration Results

RT: 6.83

Response: 132688

Amount: 6

Conc: 417



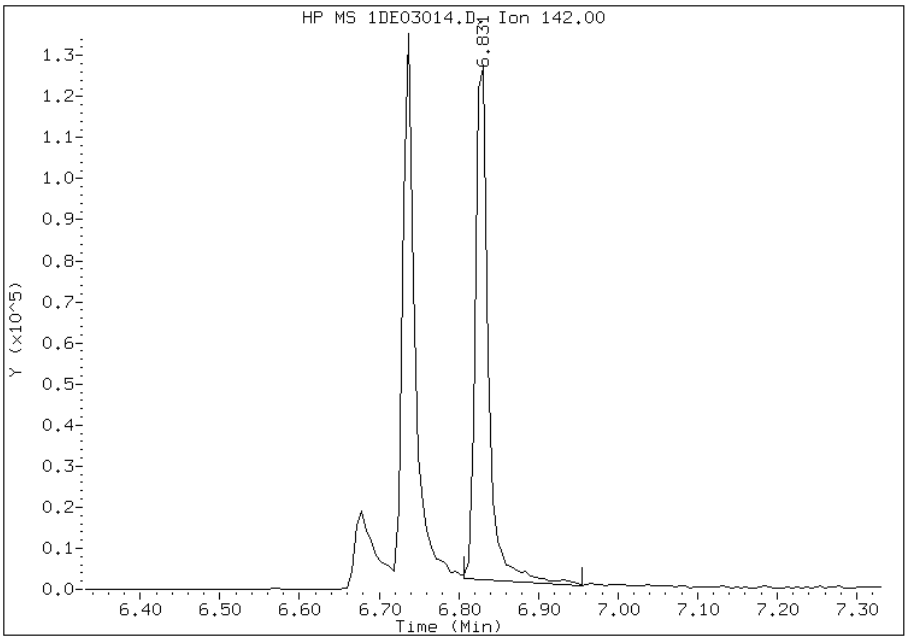
Manual Integration Results

RT: 6.83

Response: 141516

Amount: 7

Conc: 444



Manually Integrated By: cantins
Modification Date: 06-May-2013 15:44
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE03014.D
Inj. Date and Time: 03-MAY-2013 14:52
Instrument ID: BSMSD.i
Client ID:
Compound: 2 Naphthalene
CAS #: 91-20-3
Report Date: 05/06/2013

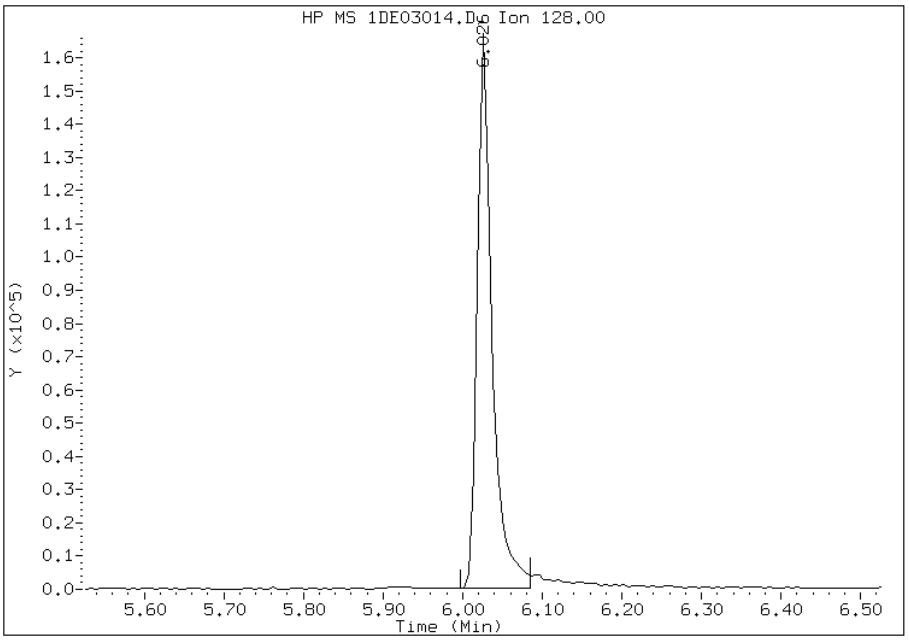
Processing Integration Results

RT: 6.03

Response: 213413

Amount: 6

Conc: 409



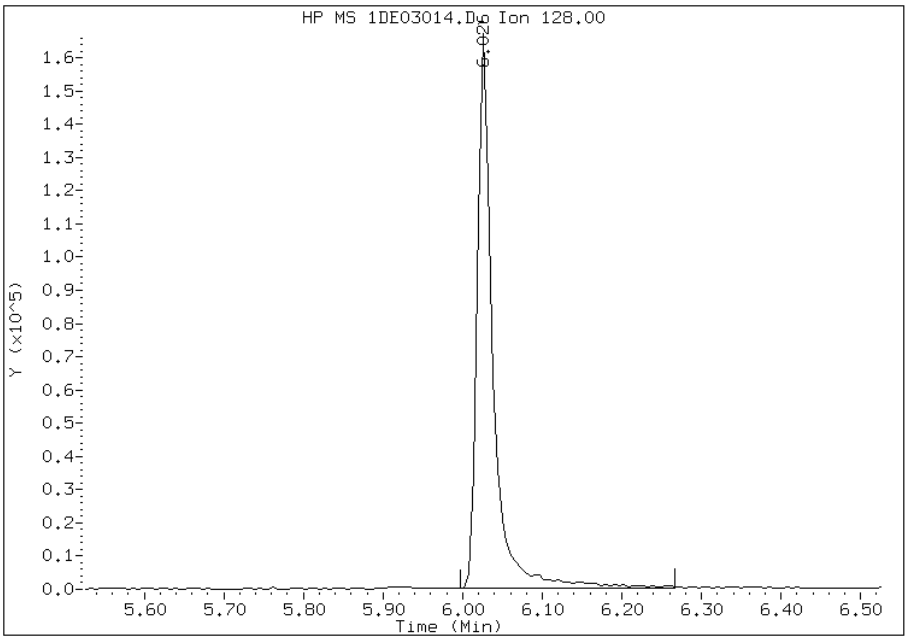
Manual Integration Results

RT: 6.03

Response: 227249

Amount: 7

Conc: 435



Manually Integrated By: cantins
Modification Date: 06-May-2013 14:24
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89791-2

SDG No.: 68089791-2

Client Sample ID: CV0752C-GS-SP MSD | Lab Sample ID: 680-89791-22MSD

Matrix: Solid | Lab File ID: 1AE02019.D

Analysis Method: 8270C LL | Date Collected: 04/25/2013 09:23

Extract. Method: 3546 | Date Extracted: 04/30/2013 14:42

Sample wt/vol: 15.00(g) | Date Analyzed: 05/02/2013 19:42

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137070 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	370	J	470	94
208-96-8	Acenaphthylene	353		190	24
120-12-7	Anthracene	397		40	20
56-55-3	Benzo[a]anthracene	489		38	18
50-32-8	Benzo[a]pyrene	377		49	24
205-99-2	Benzo[b]fluoranthene	431		57	29
191-24-2	Benzo[g,h,i]perylene	411		94	21
207-08-9	Benzo[k]fluoranthene	405		38	17
218-01-9	Chrysene	447		42	21
53-70-3	Dibenz(a,h)anthracene	465		94	19
206-44-0	Fluoranthene	391		94	19
86-73-7	Fluorene	372		94	19
193-39-5	Indeno[1,2,3-cd]pyrene	410		94	33
90-12-0	1-Methylnaphthalene	432		190	21
91-57-6	2-Methylnaphthalene	430		190	33
91-20-3	Naphthalene	403		190	21
85-01-8	Phenanthrene	442		38	18
129-00-0	Pyrene	438		94	17

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\1AE02019.D
Lab Smp Id: 680-89791-a-22-c ms
Inj Date : 02-MAY-2013 19:42
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89791-a-22-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050213.b\a-bFASTPAHi-m.m
Meth Date : 02-May-2013 16:36 cantins Quant Type: ISTD
Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
Als bottle: 16 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	2.554	2.550	(1.000)	1135452	40.0000	
* 6	Acenaphthene-d10	164	3.585	3.581	(1.000)	609121	40.0000	
* 10	Phenanthrene-d10	188	4.536	4.532	(1.000)	872011	40.0000	
$ 14	o-Terphenyl	230	4.835	4.831	(1.066)	18799	1.31803	351.4739
* 18	Chrysene-d12	240	6.560	6.551	(1.000)	739170	40.0000	
* 23	Perylene-d12	264	7.645	7.641	(1.000)	879378	40.0000	
2	Naphthalene	128	2.564	2.560	(1.004)	36432	1.28354	342.2776
3	2-Methylnaphthalene	141	2.970	2.972	(1.163)	22335	1.37251	366.0014
4	1-Methylnaphthalene	142	3.029	3.025	(1.186)	24834	1.37742	367.3128
5	Acenaphthylene	152	3.494	3.490	(0.975)	40091	1.12619	300.3179
7	Acenaphthene	154	3.601	3.597	(1.004)	22037	1.18041	314.7773
9	Fluorene	166	3.916	3.912	(1.092)	26664	1.18711	316.5639
11	Phenanthrene	178	4.552	4.548	(1.004)	35630	1.41051	376.1352
12	Anthracene	178	4.584	4.580	(1.011)	33251	1.26596	337.5898

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	4.717	4.713	(1.040)	31068	1.22614	326.9706(R)
15 Fluoranthene	202	5.417	5.413	(1.194)	36349	1.24584	332.2234
16 Pyrene	202	5.583	5.579	(0.851)	39376	1.39632	372.3517
17 Benzo(a)anthracene	228	6.550	6.540	(0.998)	37622	1.55855	415.6129
19 Chrysene	228	6.576	6.572	(1.002)	34880	1.42428	379.8070
20 Benzo(b)fluoranthene	252	7.367	7.363	(0.964)	36711	1.37508	366.6875
21 Benzo(k)fluoranthene	252	7.388	7.384	(0.966)	39652	1.29180	344.4787
22 Benzo(a)pyrene	252	7.597	7.593	(0.994)	31924	1.20200	320.5339(R)
24 Indeno(1,2,3-cd)pyrene	276	8.403	8.405	(1.099)	32776	1.30700	348.5340(M)
25 Dibenzo(a,h)anthracene	278	8.430	8.431	(1.103)	34579	1.48197	395.1923
26 Benzo(g,h,i)perylene	276	8.622	8.624	(1.128)	36737	1.30894	349.0509

QC Flag Legend

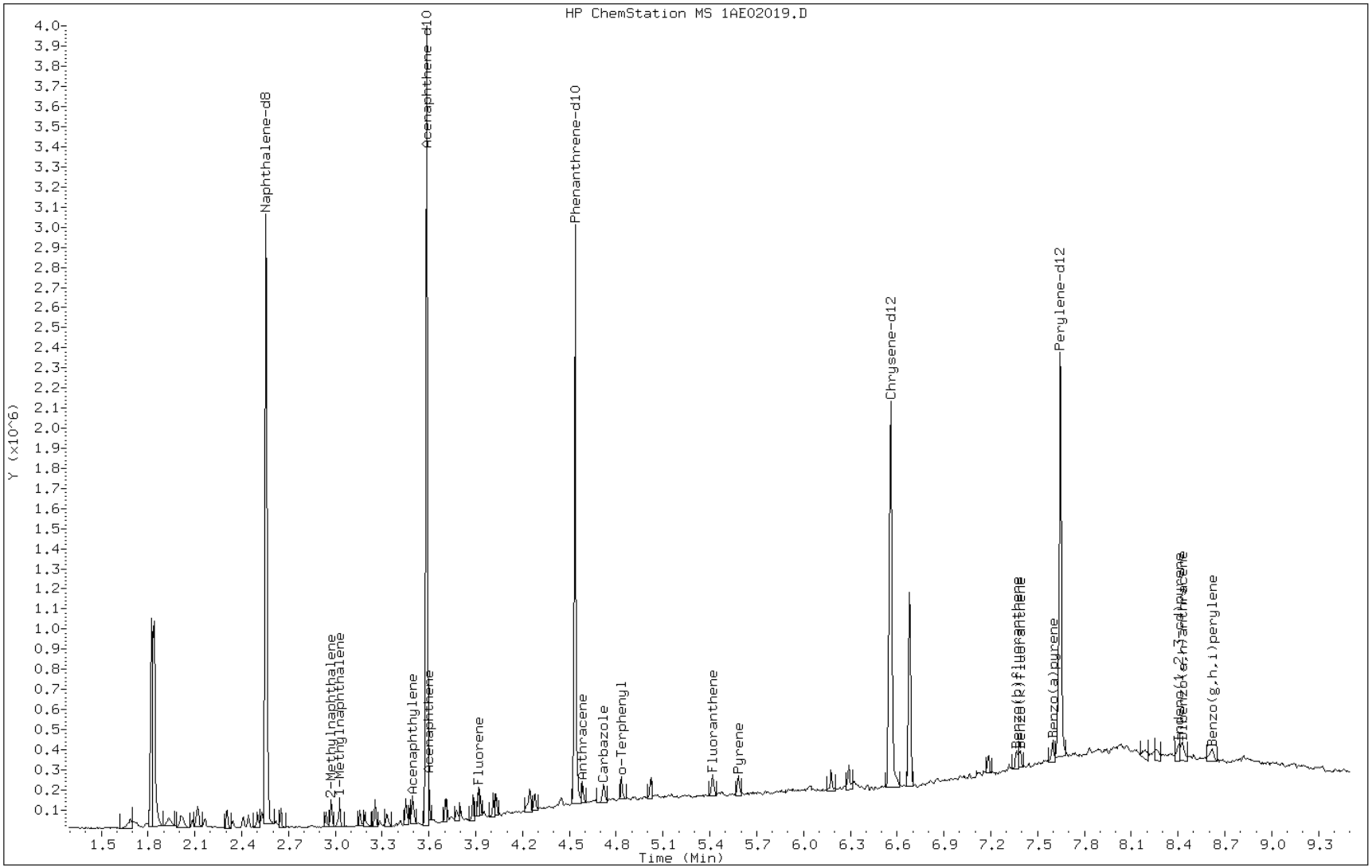
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1AE02019.D

Date: 02-MAY-2013 19:42

Client ID: Instrument: BSMA5973.i

Sample Info: 680-89791-a-22-c msd Operator: SCC



Manual Integration Report

Data File: 1AE02019.D
Inj. Date and Time: 02-MAY-2013 19:42
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/03/2013

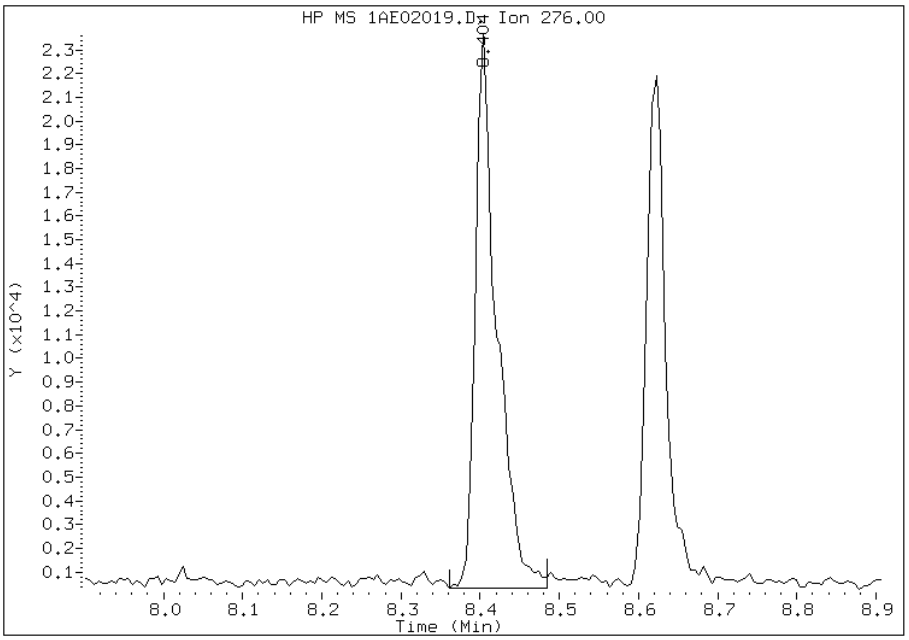
Processing Integration Results

RT: 8.40

Response: 43815

Amount: 2

Conc: 466



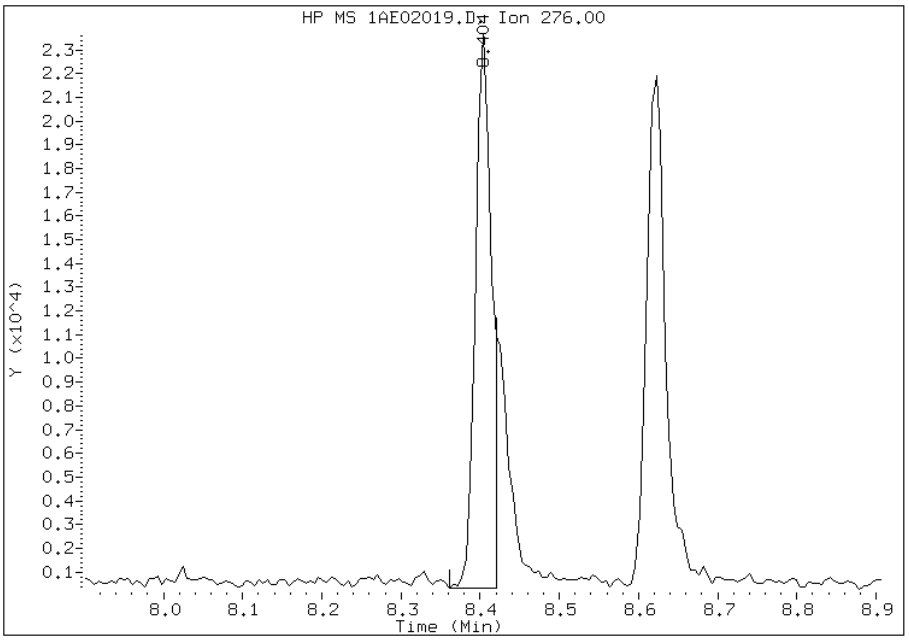
Manual Integration Results

RT: 8.40

Response: 32776

Amount: 1

Conc: 349



Manually Integrated By: cantins
Modification Date: 03-May-2013 10:48
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Instrument ID: BSMA5973 Start Date: 04/26/2013 09:20

Analysis Batch Number: 136892 End Date: 04/26/2013 19:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/26/2013 09:20	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 09:35	1		DB-5MS 250(um)
DFTPP 660-136892/2		04/26/2013 09:50	1	1AD26002.D	DB-5MS 250(um)
IC 660-136892/3		04/26/2013 10:03	1	1AD26003.D	DB-5MS 250(um)
IC 660-136892/4		04/26/2013 10:18	1	1AD26004.D	DB-5MS 250(um)
IC 660-136892/5		04/26/2013 10:33	1	1AD26005.D	DB-5MS 250(um)
IC 660-136892/6		04/26/2013 10:48	1	1AD26006.D	DB-5MS 250(um)
ICIS 660-136892/7		04/26/2013 11:03	1	1AD26007.D	DB-5MS 250(um)
IC 660-136892/8		04/26/2013 11:19	1	1AD26008.D	DB-5MS 250(um)
IC 660-136892/9		04/26/2013 11:34	1	1AD26009.D	DB-5MS 250(um)
ICV 660-136892/10		04/26/2013 11:49	1	1AD26010.D	DB-5MS 250(um)
ZZZZZ		04/26/2013 13:49	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 14:04	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 14:19	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 14:34	4		DB-5MS 250(um)
ZZZZZ		04/26/2013 14:49	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 15:04	4		DB-5MS 250(um)
ZZZZZ		04/26/2013 15:19	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 15:34	4		DB-5MS 250(um)
ZZZZZ		04/26/2013 15:49	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 16:04	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 16:19	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 16:34	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 16:49	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 17:04	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 17:19	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 17:34	4		DB-5MS 250(um)
ZZZZZ		04/26/2013 17:49	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 18:04	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 18:19	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 18:34	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 18:49	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 19:04	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 19:19	1		DB-5MS 250(um)
ZZZZZ		04/26/2013 19:35	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Instrument ID: BSMA5973 Start Date: 05/02/2013 12:46

Analysis Batch Number: 137070 End Date: 05/02/2013 22:57

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/02/2013 12:46	1		DB-5MS 250(um)
ZZZZZ		05/02/2013 13:01	1		DB-5MS 250(um)
DFTPP 660-137070/2		05/02/2013 13:16	1		DB-5MS 250(um)
CCVIS 660-137070/3		05/02/2013 13:29	1		DB-5MS 250(um)
ZZZZZ		05/02/2013 15:30	1		DB-5MS 250(um)
ZZZZZ		05/02/2013 15:46	1		DB-5MS 250(um)
DFTPP 660-137070/6		05/02/2013 16:01	1	1AE02005.D	DB-5MS 250(um)
CCVIS 660-137070/7		05/02/2013 16:18	1	1AE02006.D	DB-5MS 250(um)
ZZZZZ		05/02/2013 16:41	1		DB-5MS 250(um)
MB 660-136975/1-A		05/02/2013 16:56	1	1AE02008.D	DB-5MS 250(um)
ZZZZZ		05/02/2013 17:11	1		DB-5MS 250(um)
LCS 660-136975/2-A		05/02/2013 17:26	1	1AE02010.D	DB-5MS 250(um)
ZZZZZ		05/02/2013 17:41	1		DB-5MS 250(um)
ZZZZZ		05/02/2013 17:57	1		DB-5MS 250(um)
ZZZZZ		05/02/2013 18:12	4		DB-5MS 250(um)
ZZZZZ		05/02/2013 18:27	1		DB-5MS 250(um)
ZZZZZ		05/02/2013 18:42	1		DB-5MS 250(um)
ZZZZZ		05/02/2013 18:57	4		DB-5MS 250(um)
680-89791-22	CV0752C-GS-SP	05/02/2013 19:12	4	1AE02017.D	DB-5MS 250(um)
680-89791-22 MS	CV0752C-GS-SP MS	05/02/2013 19:27	4	1AE02018.D	DB-5MS 250(um)
680-89791-22MSD	CV0752C-GS-SP MSD	05/02/2013 19:42	4	1AE02019.D	DB-5MS 250(um)
ZZZZZ		05/02/2013 19:57	1		DB-5MS 250(um)
680-89791-24	CV1312B-CS-SP	05/02/2013 20:12	1	1AE02021.D	DB-5MS 250(um)
680-89791-25	CV1220A-CS	05/02/2013 20:27	1	1AE02022.D	DB-5MS 250(um)
680-89791-26	CV1220A-CSD	05/02/2013 20:43	1	1AE02023.D	DB-5MS 250(um)
680-89791-27	CV1220B-CS	05/02/2013 20:57	4	1AE02024.D	DB-5MS 250(um)
680-89791-28	CV1227A-CS	05/02/2013 21:12	1	1AE02025.D	DB-5MS 250(um)
680-89791-29	CV1227B-CS	05/02/2013 21:27	1	1AE02026.D	DB-5MS 250(um)
680-89791-30	CV1227C-CS	05/02/2013 21:42	1	1AE02027.D	DB-5MS 250(um)
680-89791-31	CV1228A-CS	05/02/2013 21:57	4	1AE02028.D	DB-5MS 250(um)
680-89791-32	CV1228B-CS	05/02/2013 22:12	4	1AE02029.D	DB-5MS 250(um)
680-89791-33	CV1144A-CS	05/02/2013 22:27	1	1AE02030.D	DB-5MS 250(um)
680-89791-34	CV1144B-CS	05/02/2013 22:42	1	1AE02031.D	DB-5MS 250(um)
680-89791-35	CV1144C-CS	05/02/2013 22:57	1	1AE02032.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Instrument ID: BSMA5973 Start Date: 05/06/2013 09:41

Analysis Batch Number: 137156 End Date: 05/06/2013 21:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/06/2013 09:41	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 09:56	1		DB-5MS 250(um)
DFTPP 660-137156/2		05/06/2013 10:11	1	1AE06002.D	DB-5MS 250(um)
ICIS 660-137156/3		05/06/2013 10:24	1	1AE06003.D	DB-5MS 250(um)
IC 660-137156/4		05/06/2013 10:40	1	1AE06004.D	DB-5MS 250(um)
IC 660-137156/5		05/06/2013 10:56	1	1AE06005.D	DB-5MS 250(um)
IC 660-137156/6		05/06/2013 11:11	1	1AE06006.D	DB-5MS 250(um)
IC 660-137156/7		05/06/2013 11:26	1	1AE06007.D	DB-5MS 250(um)
IC 660-137156/8		05/06/2013 11:41	1	1AE06008.D	DB-5MS 250(um)
IC 660-137156/9		05/06/2013 11:56	1	1AE06009.D	DB-5MS 250(um)
ICV 660-137156/10		05/06/2013 12:11	1	1AE06010.D	DB-5MS 250(um)
LCS 660-137037/2-A		05/06/2013 14:52	1	1AE06017.D	DB-5MS 250(um)
ZZZZZ		05/06/2013 15:08	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 15:24	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 15:39	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 15:54	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 16:09	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 16:25	4		DB-5MS 250(um)
ZZZZZ		05/06/2013 16:41	20		DB-5MS 250(um)
ZZZZZ		05/06/2013 16:56	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 17:11	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 21:43	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Instrument ID: BSMD5973 Start Date: 04/04/2013 11:04

Analysis 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 Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Instrument ID: BSMD5973 Start Date: 05/03/2013 09:23

Analysis Batch Number: 137126 End Date: 05/03/2013 20:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/03/2013 09:23	1		DB-5MS 250(um)
ZZZZZ		05/03/2013 09:52	1		DB-5MS 250(um)
DFTPP 660-137126/2		05/03/2013 10:16	1	1DE03002.D	DB-5MS 250(um)
CCVIS 660-137126/3		05/03/2013 10:32	1	1DE03003.D	DB-5MS 250(um)
ZZZZZ		05/03/2013 10:55	1		DB-5MS 250(um)
MB 660-137037/1-A		05/03/2013 11:28	1	1DE03005.D	DB-5MS 250(um)
ZZZZZ		05/03/2013 11:51	1		DB-5MS 250(um)
680-89791-36	CV1144C-CSD	05/03/2013 12:13	1	1DE03007.D	DB-5MS 250(um)
680-89791-37	CV1146A-GS	05/03/2013 12:36	1	1DE03008.D	DB-5MS 250(um)
680-89791-38	CV1224A-CS	05/03/2013 12:59	1	1DE03009.D	DB-5MS 250(um)
680-89791-39	CV1224B-CS	05/03/2013 13:21	1	1DE03010.D	DB-5MS 250(um)
680-89791-40	CV0282A-CS-SP	05/03/2013 13:44	1	1DE03011.D	DB-5MS 250(um)
ZZZZZ		05/03/2013 14:06	1		DB-5MS 250(um)
680-89791-A-41-B MS		05/03/2013 14:29	1	1DE03013.D	DB-5MS 250(um)
680-89791-A-41-C MSD		05/03/2013 14:52	1	1DE03014.D	DB-5MS 250(um)
680-89791-42	FM0023A-CS-SP	05/03/2013 15:14	1	1DE03015.D	DB-5MS 250(um)
680-89791-43	FM0023B-CS-SP	05/03/2013 15:37	1	1DE03016.D	DB-5MS 250(um)
ZZZZZ		05/03/2013 15:59	1		DB-5MS 250(um)
ZZZZZ		05/03/2013 16:22	1		DB-5MS 250(um)
ZZZZZ		05/03/2013 16:45	1		DB-5MS 250(um)
ZZZZZ		05/03/2013 17:07	1		DB-5MS 250(um)
ZZZZZ		05/03/2013 17:30	1		DB-5MS 250(um)
ZZZZZ		05/03/2013 17:52	1		DB-5MS 250(um)
ZZZZZ		05/03/2013 18:15	1		DB-5MS 250(um)
ZZZZZ		05/03/2013 18:37	1		DB-5MS 250(um)
ZZZZZ		05/03/2013 19:00	1		DB-5MS 250(um)
ZZZZZ		05/03/2013 19:22	1		DB-5MS 250(um)
ZZZZZ		05/03/2013 19:45	1		DB-5MS 250(um)
ZZZZZ		05/03/2013 20:08	4		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Batch Number: 136975 Batch Start Date: 04/30/13 14:42 Batch Analyst:

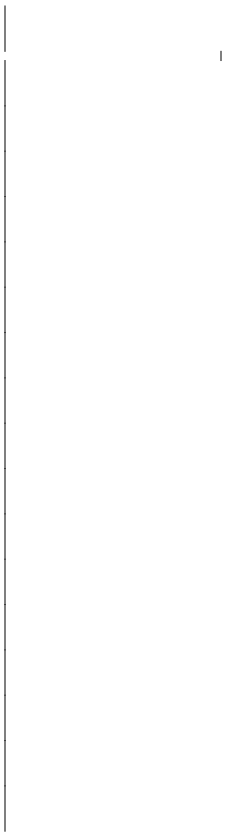
Batch Method: 3546 Batch End Date: 05/01/13 00:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00181
MB 660-136975/1		3546, 8270C LL		14.95 g	1 mL		1 mL
LCS 660-136975/2		3546, 8270C LL		14.99 g	1 mL	1 mL	1 mL
680-89791-A-22	CV0752C-GS-SP	3546, 8270C LL	T	15.02 g	1 mL		1 mL
680-89791-A-22 MS	CV0752C-GS-SP	3546, 8270C LL	T	15.01 g	1 mL	1 mL	1 mL
680-89791-A-22 MSD	CV0752C-GS-SP	3546, 8270C LL	T	15.00 g	1 mL	1 mL	1 mL
680-89791-A-24	CV1312B-CS-SP	3546, 8270C LL	T	14.96 g	1 mL		1 mL
680-89791-A-25	CV1220A-CS	3546, 8270C LL	T	14.89 g	1 mL		1 mL
680-89791-A-26	CV1220A-CSD	3546, 8270C LL	T	14.96 g	1 mL		1 mL
680-89791-A-27	CV1220B-CS	3546, 8270C LL	T	14.95 g	1 mL		1 mL
680-89791-A-28	CV1227A-CS	3546, 8270C LL	T	14.97 g	1 mL		1 mL
680-89791-A-29	CV1227B-CS	3546, 8270C LL	T	14.96 g	1 mL		1 mL
680-89791-A-30	CV1227C-CS	3546, 8270C LL	T	14.95 g	1 mL		1 mL
680-89791-A-31	CV1228A-CS	3546, 8270C LL	T	15.03 g	1 mL		1 mL
680-89791-A-32	CV1228B-CS	3546, 8270C LL	T	14.99 g	1 mL		1 mL
680-89791-A-33	CV1144A-CS	3546, 8270C LL	T	14.98 g	1 mL		1 mL
680-89791-A-34	CV1144B-CS	3546, 8270C LL	T	14.95 g	1 mL		1 mL
680-89791-A-35	CV1144C-CS	3546, 8270C LL	T	15.12 g	1 mL		1 mL

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

8270C LL

Nolan, Ryan



GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Batch Number: 136975 Batch Start Date: 04/30/13 14:42 Batch Analyst:

Batch Method: 3546 Batch End Date: 05/01/13 00:00

Batch Notes	
Acetone Lot #	ID:EX-ACETON bot00056
Balance ID	b001
Batch Comment	none
Person's name who did the concentration	Ryan Nolan
Exchange Solvent Lot #	ex-mc cycl 56
Exchange Solvent Name	ddm
Final Concentrator Volume	1ml mL
MeCL2 Lot #	ID:EX-MC CYCL_0056
MeCl2/Acetone Lot #	ID:DCM/Aceton_00070
Microwave Start Time	16:35
Microwave Stop Time	17:10
Na2SO4 Lot Number	ID:EX-NaSO4a-66
Ottawa Sand Lot #	ID:ottawa sand_00017 (1544031)
Person's name who did the prep	Ryan Nolan
SOP Number	EX:TP014
Person who witnessed spiking	Saurel Cerome
Surrogate Lot Number	EX:LLSURINT_00181
Water Bath ID	1-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

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

8270C LL

Nolan, Ryan

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Batch Number: 137037 Batch Start Date: 05/02/13 08:14 Batch Analyst:

Batch Method: 3546 Batch End Date: 05/02/13 15:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00181
MB 660-137037/1		3546, 8270C LL		15.00 g	1 mL		1 mL
LCS 660-137037/2		3546, 8270C LL		15.03 g	1 mL	1 mL	1 mL
680-89791-A-36	CV1144C-CSD	3546, 8270C LL	T	14.94 g	1 mL		1 mL
680-89791-A-37	CV1146A-GS	3546, 8270C LL	T	14.95 g	1 mL		1 mL
680-89791-A-38	CV1224A-CS	3546, 8270C LL	T	15.06 g	1 mL		1 mL
680-89791-A-39	CV1224B-CS	3546, 8270C LL	T	14.93 g	1 mL		1 mL
680-89791-A-40	CV0282A-CS-SP	3546, 8270C LL	T	14.94 g	1 mL		1 mL
680-89791-A-41 MS		3546, 8270C LL	T	14.98 g	1 mL	1 mL	1 mL
680-89791-A-41 MSD		3546, 8270C LL	T	14.97 g	1 mL	1 mL	1 mL
680-89791-A-42	FM0023A-CS-SP	3546, 8270C LL	T	14.94 g	1 mL		1 mL
680-89791-A-43	FM0023B-CS-SP	3546, 8270C LL	T	15.08 g	1 mL		1 mL

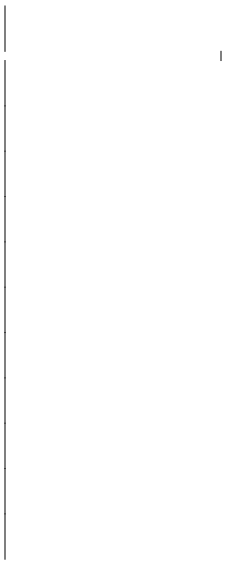
Batch Notes	
Acetone Lot #	ID:ACETON BOT_00052
Balance ID	b001
Batch Comment	none
Person's name who did the concentration	Ryan Nolan
Exchange Solvent Lot #	ex-mc cycl56
Exchange Solvent Name	dcm
Final Concentrator Volume	1ml mL
MeCL2 Lot #	ID:EX-MC CYcl_00056
MeCl2/Acetone Lot #	ID:DCM/ACETON_00076
Microwave Start Time	11:25 5/2/13
Microwave Stop Time	12:00 5/2/13
Na2SO4 Lot Number	ID:EX-NaSO4-00066
Ottawa Sand Lot #	ID: ottawa Sand_00017(1544031)
Person's name who did the prep	Ryan Nolan
SOP Number	TPEX14
Person who witnessed spiking	Saurel Cerome
Surrogate Lot Number	ID:EXLLSURINT_00181(154671)
Water Bath ID	1-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

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

8270C LL

Nolan, Ryan



GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89791-2

SDG No.: 68089791-2

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0752C-GS-SP	680-89791-22
CV1312B-CS-SP	680-89791-24
CV1220A-CS	680-89791-25
CV1220A-CSD	680-89791-26
CV1220B-CS	680-89791-27
CV1227A-CS	680-89791-28
CV1227B-CS	680-89791-29
CV1227C-CS	680-89791-30
CV1228A-CS	680-89791-31
CV1228B-CS	680-89791-32
CV1144A-CS	680-89791-33
CV1144B-CS	680-89791-34
CV1144C-CS	680-89791-35
CV1144C-CSD	680-89791-36
CV1146A-GS	680-89791-37
CV1224A-CS	680-89791-38
CV1224B-CS	680-89791-39
CV0282A-CS-SP	680-89791-40
FM0023A-CS-SP	680-89791-42
FM0023B-CS-SP	680-89791-43

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89791-2

SDG Number: 68089791-2

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: 680-89791-2

SDG Number: 68089791-2

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.: 680-89791-2

SDG No.: 68089791-2

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 04/30/2013 06:31   End Date: 04/30/2013 06:31

Lab Sample ID	D/F	Type	Time	Analytes: Moist																			
ZZZZZZ			06:31																				
ZZZZZZ			06:31																				
ZZZZZZ			06:31																				
ZZZZZZ			06:31																				
ZZZZZZ			06:31																				
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ZZZZZZ			06:31																				
ZZZZZZ			06:31																				
ZZZZZZ			06:31																				
ZZZZZZ			06:31																				
680-89791-36	1	T	06:31	X																			
680-89791-43	1	T	06:31	X																			
ZZZZZZ			06:31																				
ZZZZZZ			06:31																				
680-89791-24	1	T	06:31	X																			
680-89791-29	1	T	06:31	X																			
680-89791-34	1	T	06:31	X																			
ZZZZZZ			06:31																				
ZZZZZZ			06:31																				
ZZZZZZ			06:31																				
680-89791-38	1	T	06:31	X																			
680-89791-32	1	T	06:31	X																			
680-89791-30	1	T	06:31	X																			
ZZZZZZ			06:31																				
ZZZZZZ			06:31																				
ZZZZZZ			06:31																				
ZZZZZZ			06:31																				
680-89791-25	1	T	06:31	X																			
ZZZZZZ			06:31																				
680-89791-28	1	T	06:31	X																			
ZZZZZZ			06:31																				
680-89791-35	1	T	06:31	X																			
680-89791-27	1	T	06:31	X																			
ZZZZZZ			06:31																				
680-89791-39	1	T	06:31	X																			
ZZZZZZ			06:31																				
680-89791-37	1	T	06:31	X																			
ZZZZZZ			06:31																				
680-89791-33	1	T	06:31	X																			
ZZZZZZ			06:31																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/30/2013 06:31 End Date: 04/30/2013 06:31

Lab Sample ID	D/F	Type	Time	Analytes: Moist																			
ZZZZZZ			06:31																				
680-89791-31	1	T	06:31	X																			
680-89791-40	1	T	06:31	X																			
ZZZZZZ			06:31																				
680-89791-42	1	T	06:31	X																			
680-89791-26	1	T	06:31	X																			
ZZZZZZ			06:31																				
ZZZZZZ			06:31																				
680-89791-A-41 MS	1	T	06:31	X																			
680-89791-A-41 MSD	1	T	06:31	X																			
ZZZZZZ			06:31																				
ZZZZZZ			06:31																				
ZZZZZZ			06:31																				
680-89791-22	1	T	06:31	X																			
680-89791-22 MS	1	T	06:31	X																			
680-89791-22 MSD	1	T	06:31	X																			
ZZZZZZ			06:31																				
ZZZZZZ			06:31																				
ZZZZZZ			06:31																				
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ZZZZZZ			06:31																				

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89791-2

SDG No.: 68089791-2

Batch Number: 136953 Batch Start Date: 04/30/13 06:31 Batch Analyst:

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry
680-89791-A-36	CV1144C-CSD	Moisture	T	13	0 g	4.92 g	3.96 g
680-89791-A-43	FM0023B-CS-SP	Moisture	T	14	0 g	5.55 g	4.26 g
680-89791-A-24	CV1312B-CS-SP	Moisture	T	17	0 g	4.37 g	3.27 g
680-89791-A-29	CV1227B-CS	Moisture	T	18	0 g	4.61 g	3.86 g
680-89791-A-34	CV1144B-CS	Moisture	T	19	0 g	4.57 g	3.72 g
680-89791-A-38	CV1224A-CS	Moisture	T	23	0 g	4.70 g	3.70 g
680-89791-A-32	CV1228B-CS	Moisture	T	24	0 g	4.23 g	3.28 g
680-89791-A-30	CV1227C-CS	Moisture	T	25	0 g	4.27 g	3.02 g
680-89791-A-25	CV1220A-CS	Moisture	T	30	0 g	4.68 g	3.54 g
680-89791-A-28	CV1227A-CS	Moisture	T	32	0 g	4.66 g	3.55 g
680-89791-A-35	CV1144C-CS	Moisture	T	34	0 g	4.43 g	3.55 g
680-89791-A-27	CV1220B-CS	Moisture	T	35	0 g	5.00 g	3.83 g
680-89791-A-39	CV1224B-CS	Moisture	T	37	0 g	4.98 g	3.84 g
680-89791-A-37	CV1146A-GS	Moisture	T	39	0 g	5.16 g	4.45 g
680-89791-A-33	CV1144A-CS	Moisture	T	41	0 g	4.16 g	3.41 g
680-89791-A-31	CV1228A-CS	Moisture	T	44	0 g	4.91 g	4.13 g
680-89791-A-40	CV0282A-CS-SP	Moisture	T	45	0 g	5.04 g	3.94 g
680-89791-A-42	FM0023A-CS-SP	Moisture	T	47	0 g	4.76 g	3.96 g
680-89791-A-26	CV1220A-CSD	Moisture	T	48	0 g	4.78 g	3.85 g
680-89791-A-41 MS		Moisture	T	50	0 g	4.39 g	3.30 g
680-89791-A-41 MSD		Moisture	T	50	0 g	4.39 g	3.30 g
680-89791-A-22	CV0752C-GS-SP	Moisture	T	52	0 g	4.94 g	4.20 g
680-89791-A-22 MS	CV0752C-GS-SP	Moisture	T	52	0 g	4.94 g	4.20 g
680-89791-A-22 MSD	CV0752C-GS-SP	Moisture	T	52	0 g	4.94 g	4.20 g

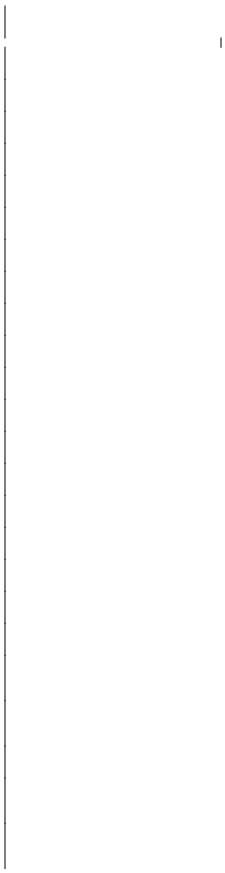
Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	4.30.13

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 this reagent.

Moisture

Galio, Andrew



Shipping and Receiving Documents

Serial Number 64692

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: 680-89791
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	2005148-1356	AZ

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 2 OF 5

STANDARD REPORT DELIVERY ○

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ○
10 Calendar Days TAT
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: VOC by 8260B	RCRA 8 Metals	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4-24-13	1341	CV0790A-CS-SP	C		X			X				
	1352	CV0790B-CS-SP	C		X			X				
	1354	CV0790C-CS-SP	C		X			X	X			
	1127	CV13428-CS-SP (sieve)	C		X				X			
	1354	CV0790C-CS-SP (sieve)	C		X				X			
4-25-13	1058	CV0121A-CS-SP	C		X			X				
	1112	CV0121B-CS-SP	C		X			X				
	0900	CV0752A-CS-SP	C		X			X				
	0913	CV0752B-CS-SP	C		X			X	X			
	0923	CV0752C-CS-SP	G		X			X				
	0950	CV1312A-CS-SP	C		X			X				
	1001	CV1312B-CS-SP	C		X			X				

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	4-26-13	1130						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	4/27/13	825				

TAL8240-680 (1008)

Serial Number 64693

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: 680-89791
Fax:

PROJECT REFERENCE: 35th Ave Removal
PROJECT NO.: 2005148-1356
PROJECT LOCATION (STATE): AL
MATRIX TYPE
REQUIRED ANALYSIS
PAGE 3 OF 5

TAL (LAB) PROJECT MANAGER / P.O. NUMBER / CONTRACT NO.

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

STANDARD REPORT DELIVERY ○ DATE DUE ______

EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE ______

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

PRESERVATIVE

NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	22 PAH	RCRA 8 Metals	REMARKS
4-25-13	0930	CV 1220 A - CS	C		X			X		
↓	0930	CV 1220 A - CSD	C		X			X		
	0950	CV 1220 B - CS	C		X			X		
	1025	CV 1227 A - CS	C		X			X		
	1040	CV 1227 B - CS	C		X			X		
	1050	CV 1227C - CS	C		X			X	X	30
	1115	CV 1228 A - CS	C		X			X		
	1120	CV 1228 B - CS	C		X			X	X	32
	1400	CV 1144A - CS	C		X			X		
	1415	CV 1144B - CS	C		X			X		
	1425	CV 1144C - CS	C		X			X		
↓	1425	CV 1144C - CSD	C		X			X		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	4-26-13	1130						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	4/27/13	825	YES ○ NO ○			

Serial Number 64694

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location: Test Am Tampa
Phone: 680-89791
Fax:

PROJECT REFERENCE: 35th Ave Removal
PROJECT NO.: 200548-1356
PROJECT LOCATION (STATE): AL

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 4 OF 5

STANDARD REPORT DELIVERY ○
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX TYPE: AQUEOUS (WATER)	MATRIX TYPE: SOLID OR SEMISOLID	MATRIX TYPE: AIR	MATRIX TYPE: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 2 PAH	REQUIRED ANALYSIS: Arsenic & Metals	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4-25-13	1400	CV1146A-GS	G		X			X				
	1315	CV1224A-CS	C		X			X				
	1325	CV1224B-CS	C		X			X				
	1312	CV0282A-CS-SP	C		X			X				
2	1325	CV0282B-CS-SP	C		X			X				
	1402	FM0023A-CS-SP	C		X			X				
3	1414	FM0023B-CS-SP	C		X			X				
	1428	FM0023C-CS-SP	C		X			X				
	1557	FM0245A-CS-SP	C		X			X				
	1605	FM0245B-CS-SP	C		X			X				
	1608	FM0245C-CS-SP	C		X			X				
4-26-13	0848	CV1142A-CS	C		X			X				

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Anglin	4-26-13	1130						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Emily Edney	4/27/13	825	YES ○ NO ○			

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89791-2
SDG Number: 68089791-2

Login Number: 89791
List Source: TestAmerica Savannah
List Number: 1
Creator: Barnett, Eddie T

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

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89791-2
SDG Number: 68089791-2

Login Number: 89791
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 04/29/13 01:27 PM

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-89791-2
TestAmerica Sample Delivery Group: 68089791-2
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:
5/7/2013 5:03:23 PM
Bernard Kirkland, Project Manager I
bernard.kirkland@testamericainc.com

Designee for

Lisa Harvey, Project Manager II
lisa.harvey@testamericainc.com

Job ID: 680-89791-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89791-2

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

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): CV0790C-CS-SP (sieve) (680-89791-17). The container labels list CV0709C-CS-SP(Sieve). The COC lists CV0790C-CS-SP(Sieve).

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0752C-GS-SP (680-89791-22), CV1312B-CS-SP (680-89791-24), CV1220A-CS (680-89791-25), CV1220A-CSD (680-89791-26), CV1220B-CS (680-89791-27), CV1227A-CS (680-89791-28), CV1227B-CS (680-89791-29), CV1227C-CS (680-89791-30), CV1228A-CS (680-89791-31), CV1228B-CS (680-89791-32), CV1144A-CS (680-89791-33), CV1144B-CS (680-89791-34), CV1144C-CS (680-89791-35), CV1144C-CSD (680-89791-36), CV1146A-GS (680-89791-37), CV1224A-CS (680-89791-38), CV1224B-CS (680-89791-39), CV0282A-CS-SP (680-89791-40), FM0023A-CS-SP (680-89791-42) and FM0023B-CS-SP (680-89791-43) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/30/2013 and 05/02/2013 and analyzed on 05/02/2013 and 05/03/2013.

Samples CV0752C-GS-SP (680-89791-22)[4X], CV1220B-CS (680-89791-27)[4X], CV1228A-CS (680-89791-31)[4X] and CV1228B-CS (680-89791-32)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Benzo[a]pyrene recovered outside the recovery criteria for the MSD of sample CV0752C-GS-SP(680-89791-22) in batch 660-137070.

Benzo[a]pyrene and Pyrene recovered outside the recovery criteria for the MS of sample 680-89791-41 in batch 660-137126.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

Sample Summary

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

TestAmerica Job ID: 680-89791-2
SDG: 68089791-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89791-22	CV0752C-GS-SP	Solid	04/25/13 09:23	04/27/13 08:25
680-89791-24	CV1312B-CS-SP	Solid	04/25/13 10:01	04/27/13 08:25
680-89791-25	CV1220A-CS	Solid	04/25/13 09:30	04/27/13 08:25
680-89791-26	CV1220A-CSD	Solid	04/25/13 09:30	04/27/13 08:25
680-89791-27	CV1220B-CS	Solid	04/25/13 09:50	04/27/13 08:25
680-89791-28	CV1227A-CS	Solid	04/25/13 10:25	04/27/13 08:25
680-89791-29	CV1227B-CS	Solid	04/25/13 10:40	04/27/13 08:25
680-89791-30	CV1227C-CS	Solid	04/25/13 10:50	04/27/13 08:25
680-89791-31	CV1228A-CS	Solid	04/25/13 11:15	04/27/13 08:25
680-89791-32	CV1228B-CS	Solid	04/25/13 11:20	04/27/13 08:25
680-89791-33	CV1144A-CS	Solid	04/25/13 14:00	04/27/13 08:25
680-89791-34	CV1144B-CS	Solid	04/25/13 14:15	04/27/13 08:25
680-89791-35	CV1144C-CS	Solid	04/25/13 14:25	04/27/13 08:25
680-89791-36	CV1144C-CSD	Solid	04/25/13 14:25	04/27/13 08:25
680-89791-37	CV1146A-GS	Solid	04/25/13 14:10	04/27/13 08:25
680-89791-38	CV1224A-CS	Solid	04/25/13 13:15	04/27/13 08:25
680-89791-39	CV1224B-CS	Solid	04/25/13 13:25	04/27/13 08:25
680-89791-40	CV0282A-CS-SP	Solid	04/25/13 13:12	04/27/13 08:25
680-89791-42	FM0023A-CS-SP	Solid	04/25/13 14:02	04/27/13 08:25
680-89791-43	FM0023B-CS-SP	Solid	04/25/13 14:14	04/27/13 08:25

Method Summary

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

TestAmerica Job ID: 680-89791-2
SDG: 68089791-2

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

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89791-2
SDG: 68089791-2

Client Sample ID: CV0752C-GS-SP

Lab Sample ID: 680-89791-22

Date Collected: 04/25/13 09:23
Date Received: 04/27/13 08:25

Matrix: Solid
Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	470	U	470	94	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Acenaphthylene	190	U	190	23	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Anthracene	39	U	39	20	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Benzo[a]anthracene	**61**		38	18	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Benzo[a]pyrene	49	U F	49	24	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Benzo[b]fluoranthene	**50**	**J**	57	29	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Benzo[g,h,i]perylene	**35**	**J**	94	21	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Benzo[k]fluoranthene	**17**	**J**	38	17	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Chrysene	**51**		42	21	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Dibenz(a,h)anthracene	94	U	94	19	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Fluoranthene	**64**	**J**	94	19	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Fluorene	94	U	94	19	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Indeno[1,2,3-cd]pyrene	94	U	94	33	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
1-Methylnaphthalene	190	U	190	21	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
2-Methylnaphthalene	190	U	190	33	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Naphthalene	**22**	**J**	190	21	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Phenanthrene	**61**		38	18	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4
Pyrene	**59**	**J**	94	17	ug/Kg	☼	04/30/13 14:42	05/02/13 19:12	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*47*		*30 - 130*	*04/30/13 14:42*	*05/02/13 19:12*	*4*

Client Sample ID: CV1312B-CS-SP

Lab Sample ID: 680-89791-24

Date Collected: 04/25/13 10:01
Date Received: 04/27/13 08:25

Matrix: Solid
Percent Solids: 74.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Acenaphthylene	**21**	**J**	54	6.7	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Anthracene	**35**		11	5.6	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Benzo[a]anthracene	**130**		11	5.2	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Benzo[a]pyrene	**100**		14	7.0	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Benzo[b]fluoranthene	**170**		16	8.2	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Benzo[g,h,i]perylene	**84**		27	5.9	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Benzo[k]fluoranthene	**68**		11	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Chrysene	**150**		12	6.0	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Dibenz(a,h)anthracene	**21**	**J**	27	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Fluoranthene	**150**		27	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Fluorene	**8.7**	**J**	27	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Indeno[1,2,3-cd]pyrene	**73**		27	9.5	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
1-Methylnaphthalene	**91**		54	5.9	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
2-Methylnaphthalene	**100**		54	9.5	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Naphthalene	**100**		54	5.9	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Phenanthrene	**140**		11	5.2	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1
Pyrene	**140**		27	5.0	ug/Kg	☼	04/30/13 14:42	05/02/13 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*45*		*30 - 130*	*04/30/13 14:42*	*05/02/13 20:12*	*1*

Client Sample ID: CV1220A-CS

Lab Sample ID: 680-89791-25

Date Collected: 04/25/13 09:30
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 75.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	87	J	130	27	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Acenaphthylene	33	J	53	6.7	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Anthracene	220		11	5.6	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Benzo[a]anthracene	1800		11	5.2	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Benzo[a]pyrene	2300		14	6.9	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Benzo[b]fluoranthene	4300		16	8.1	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Benzo[g,h,i]perylene	1900		27	5.9	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Benzo[k]fluoranthene	1200		11	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Chrysene	2100		12	6.0	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Dibenz(a,h)anthracene	950		27	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Fluoranthene	1700		27	5.3	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Fluorene	88		27	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Indeno[1,2,3-cd]pyrene	1800		27	9.5	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
1-Methylnaphthalene	380		53	5.9	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
2-Methylnaphthalene	450		53	9.5	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Naphthalene	300		53	5.9	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Phenanthrene	1200		11	5.2	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1
Pyrene	1400		27	4.9	ug/Kg	☼	04/30/13 14:42	05/02/13 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*45*		*30 - 130*	*04/30/13 14:42*	*05/02/13 20:27*	*1*

Client Sample ID: CV1220A-CSD

Lab Sample ID: 680-89791-26

Date Collected: 04/25/13 09:30
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Acenaphthylene	15	J	50	6.2	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Anthracene	58		10	5.2	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Benzo[a]anthracene	810		10	4.9	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Benzo[a]pyrene	1100		13	6.5	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Benzo[b]fluoranthene	2100		15	7.6	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Benzo[g,h,i]perylene	930		25	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Benzo[k]fluoranthene	620		10	4.5	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Chrysene	1000		11	5.6	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Dibenz(a,h)anthracene	470		25	5.1	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Fluoranthene	580		25	5.0	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Fluorene	19	J	25	5.1	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Indeno[1,2,3-cd]pyrene	980		25	8.8	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
1-Methylnaphthalene	180		50	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
2-Methylnaphthalene	220		50	8.8	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Naphthalene	150		50	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Phenanthrene	340		10	4.9	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1
Pyrene	510		25	4.6	ug/Kg	☼	04/30/13 14:42	05/02/13 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*39*		*30 - 130*	*04/30/13 14:42*	*05/02/13 20:43*	*1*

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

TestAmerica Job ID: 680-89791-2
SDG: 68089791-2

Client Sample ID: CV1220B-CS

Lab Sample ID: 680-89791-27
Date Collected: 04/25/13 09:50
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 76.6

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	☼	04/30/13 14:42	05/02/13 20:57	4
Acenaphthylene	**28**	**J**	210	26	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Anthracene	**87**		44	22	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Benzo[a]anthracene	**1300**		42	20	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Benzo[a]pyrene	**1900**		54	27	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Benzo[b]fluoranthene	**3200**		64	32	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Benzo[g,h,i]perylene	**1800**		100	23	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Benzo[k]fluoranthene	**1500**		42	19	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Chrysene	**1700**		47	24	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Dibenz(a,h)anthracene	**640**		100	21	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Fluoranthene	**1000**		100	21	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Fluorene	**45**	**J**	100	21	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Indeno[1,2,3-cd]pyrene	**1800**		100	37	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
1-Methylnaphthalene	**250**		210	23	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
2-Methylnaphthalene	**310**		210	37	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Naphthalene	**240**		210	23	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Phenanthrene	**570**		42	20	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4
Pyrene	**1000**		100	19	ug/Kg	☼	04/30/13 14:42	05/02/13 20:57	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*46*		*30 - 130*	*04/30/13 14:42*	*05/02/13 20:57*	*4*

Client Sample ID: CV1227A-CS

Lab Sample ID: 680-89791-28
Date Collected: 04/25/13 10:25
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Acenaphthylene	**15**	**J**	53	6.6	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Anthracene	**36**		11	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Benzo[a]anthracene	**110**		11	5.1	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Benzo[a]pyrene	**92**		14	6.8	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Benzo[b]fluoranthene	**150**		16	8.0	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Benzo[g,h,i]perylene	**73**		26	5.8	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Benzo[k]fluoranthene	**57**		11	4.7	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Chrysene	**160**		12	5.9	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Dibenz(a,h)anthracene	**28**		26	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Fluoranthene	**150**		26	5.3	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Fluorene	**5.8**	**J**	26	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Indeno[1,2,3-cd]pyrene	**65**		26	9.3	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
1-Methylnaphthalene	**73**		53	5.8	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
2-Methylnaphthalene	**120**		53	9.3	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Naphthalene	**86**		53	5.8	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Phenanthrene	**160**		11	5.1	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1
Pyrene	**140**		26	4.9	ug/Kg	☼	04/30/13 14:42	05/02/13 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*45*		*30 - 130*	*04/30/13 14:42*	*05/02/13 21:12*	*1*

Client Sample ID: CV1227B-CS

Lab Sample ID: 680-89791-29

Date Collected: 04/25/13 10:40
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Acenaphthylene	**29**	**J**	48	6.0	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Anthracene	**28**		10	5.0	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Benzo[a]anthracene	**57**		9.6	4.7	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Benzo[a]pyrene	**48**		12	6.2	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Benzo[b]fluoranthene	**70**		15	7.3	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Benzo[g,h,i]perylene	**40**		24	5.3	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Benzo[k]fluoranthene	**24**		9.6	4.3	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Chrysene	**89**		11	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Dibenz(a,h)anthracene	**10**	**J**	24	4.9	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Fluoranthene	**79**		24	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Fluorene	**9.3**	**J**	24	4.9	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Indeno[1,2,3-cd]pyrene	**30**		24	8.5	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
1-Methylnaphthalene	**47**	**J**	48	5.3	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
2-Methylnaphthalene	**76**		48	8.5	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Naphthalene	**180**		48	5.3	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Phenanthrene	**150**		9.6	4.7	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1
Pyrene	**100**		24	4.4	ug/Kg	☼	04/30/13 14:42	05/02/13 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*30 - 130*	*04/30/13 14:42*	*05/02/13 21:27*	*1*

Client Sample ID: CV1227C-CS

Lab Sample ID: 680-89791-30

Date Collected: 04/25/13 10:50
Matrix: Solid
Date Received: 04/27/13 08:25
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	**80**	**J**	140	28	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Acenaphthylene	**98**		57	7.1	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Anthracene	**300**		12	6.0	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Benzo[a]anthracene	**720**		11	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Benzo[a]pyrene	**510**		15	7.4	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Benzo[b]fluoranthene	**780**		17	8.7	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Benzo[g,h,i]perylene	**280**		28	6.2	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Benzo[k]fluoranthene	**330**		11	5.1	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Chrysene	**800**		13	6.4	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Dibenz(a,h)anthracene	**130**		28	5.8	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Fluoranthene	**1300**		28	5.7	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Fluorene	**110**		28	5.8	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Indeno[1,2,3-cd]pyrene	**290**		28	10	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
1-Methylnaphthalene	**280**		57	6.2	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
2-Methylnaphthalene	**240**		57	10	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Naphthalene	**190**		57	6.2	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Phenanthrene	**1300**		11	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1
Pyrene	**920**		28	5.2	ug/Kg	☼	04/30/13 14:42	05/02/13 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*42*		*30 - 130*	*04/30/13 14:42*	*05/02/13 21:42*	*1*

Client Sample ID: CV1228A-CS

Lab Sample ID: 680-89791-31

Date Collected: 04/25/13 11:15
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	470	U	470	95	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Acenaphthylene	190	U	190	24	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Anthracene	**36**	**J**	40	20	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Benzo[a]anthracene	**110**		38	19	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Benzo[a]pyrene	**60**		49	25	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Benzo[b]fluoranthene	**100**		58	29	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Benzo[g,h,i]perylene	**41**	**J**	95	21	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Benzo[k]fluoranthene	**45**		38	17	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Chrysene	**110**		43	21	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Dibenz(a,h)anthracene	95	U	95	19	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Fluoranthene	**110**		95	19	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Fluorene	95	U	95	19	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Indeno[1,2,3-cd]pyrene	**48**	**J**	95	34	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
1-Methylnaphthalene	**180**	**J**	190	21	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
2-Methylnaphthalene	**220**		190	34	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Naphthalene	**170**	**J**	190	21	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Phenanthrene	**180**		38	19	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4
Pyrene	**100**		95	18	ug/Kg	☼	04/30/13 14:42	05/02/13 21:57	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*49*		*30 - 130*	*04/30/13 14:42*	*05/02/13 21:57*	*4*

Client Sample ID: CV1228B-CS

Lab Sample ID: 680-89791-32

Date Collected: 04/25/13 11:20
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Acenaphthylene	**27**	**J**	210	26	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Anthracene	**38**	**J**	43	22	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Benzo[a]anthracene	**160**		41	20	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Benzo[a]pyrene	**140**		54	27	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Benzo[b]fluoranthene	**210**		63	31	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Benzo[g,h,i]perylene	**100**		100	23	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Benzo[k]fluoranthene	**79**		41	19	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Chrysene	**250**		46	23	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Dibenz(a,h)anthracene	**36**	**J**	100	21	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Fluoranthene	**200**		100	21	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Fluorene	100	U	100	21	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Indeno[1,2,3-cd]pyrene	**85**	**J**	100	37	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
1-Methylnaphthalene	**150**	**J**	210	23	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
2-Methylnaphthalene	**160**	**J**	210	37	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Naphthalene	**130**	**J**	210	23	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Phenanthrene	**190**		41	20	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4
Pyrene	**170**		100	19	ug/Kg	☼	04/30/13 14:42	05/02/13 22:12	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*49*		*30 - 130*	*04/30/13 14:42*	*05/02/13 22:12*	*4*

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

TestAmerica Job ID: 680-89791-2
SDG: 68089791-2

Client Sample ID: CV1144A-CS

Lab Sample ID: 680-89791-33
Date Collected: 04/25/13 14:00
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Acenaphthylene	49	U	49	6.1	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Anthracene	**9.0**	**J**	10	5.1	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Benzo[a]anthracene	**38**		9.8	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Benzo[a]pyrene	**31**		13	6.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Benzo[b]fluoranthene	**51**		15	7.5	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Benzo[g,h,i]perylene	**27**		24	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Benzo[k]fluoranthene	**21**		9.8	4.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Chrysene	**38**		11	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Dibenz(a,h)anthracene	**5.5**	**J**	24	5.0	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Fluoranthene	**42**		24	4.9	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Fluorene	24	U	24	5.0	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Indeno[1,2,3-cd]pyrene	**23**	**J**	24	8.7	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
1-Methylnaphthalene	**10**	**J**	49	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
2-Methylnaphthalene	**13**	**J**	49	8.7	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Naphthalene	**11**	**J**	49	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Phenanthrene	**32**		9.8	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1
Pyrene	**40**		24	4.5	ug/Kg	☼	04/30/13 14:42	05/02/13 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*50*		*30 - 130*	*04/30/13 14:42*	*05/02/13 22:27*	*1*

Client Sample ID: CV1144B-CS

Lab Sample ID: 680-89791-34
Date Collected: 04/25/13 14:15
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Acenaphthylene	**18**	**J**	49	6.2	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Anthracene	**25**		10	5.2	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Benzo[a]anthracene	**79**		9.9	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Benzo[a]pyrene	**69**		13	6.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Benzo[b]fluoranthene	**100**		15	7.5	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Benzo[g,h,i]perylene	**60**		25	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Benzo[k]fluoranthene	**53**		9.9	4.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Chrysene	**96**		11	5.5	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Dibenz(a,h)anthracene	**13**	**J**	25	5.1	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Fluoranthene	**100**		25	4.9	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Fluorene	**5.5**	**J**	25	5.1	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Indeno[1,2,3-cd]pyrene	**49**		25	8.8	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
1-Methylnaphthalene	**42**	**J**	49	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
2-Methylnaphthalene	**47**	**J**	49	8.8	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Naphthalene	**33**	**J**	49	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Phenanthrene	**88**		9.9	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1
Pyrene	**87**		25	4.6	ug/Kg	☼	04/30/13 14:42	05/02/13 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*04/30/13 14:42*	*05/02/13 22:42*	*1*

Client Sample ID: CV1144C-CS

Lab Sample ID: 680-89791-35

Date Collected: 04/25/13 14:25
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Acenaphthylene	**8.0**	**J**	50	6.2	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Anthracene	**12**		10	5.2	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Benzo[a]anthracene	**41**		9.9	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Benzo[a]pyrene	**33**		13	6.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Benzo[b]fluoranthene	**52**		15	7.6	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Benzo[g,h,i]perylene	**23**	**J**	25	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Benzo[k]fluoranthene	**25**		9.9	4.5	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Chrysene	**44**		11	5.6	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Dibenz(a,h)anthracene	**5.5**	**J**	25	5.1	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Fluoranthene	**57**		25	5.0	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Fluorene	25	U	25	5.1	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Indeno[1,2,3-cd]pyrene	**21**	**J**	25	8.8	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
1-Methylnaphthalene	**25**	**J**	50	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
2-Methylnaphthalene	**30**	**J**	50	8.8	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Naphthalene	**34**	**J**	50	5.4	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Phenanthrene	**52**		9.9	4.8	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1
Pyrene	**45**		25	4.6	ug/Kg	☼	04/30/13 14:42	05/02/13 22:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*41*		*30 - 130*	*04/30/13 14:42*	*05/02/13 22:57*	*1*

Client Sample ID: CV1144C-CSD

Lab Sample ID: 680-89791-36

Date Collected: 04/25/13 14:25
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Acenaphthylene	50	U	50	6.2	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Anthracene	**11**		10	5.2	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Benzo[a]anthracene	**45**		10	4.9	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Benzo[a]pyrene	**39**		13	6.5	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Benzo[b]fluoranthene	**63**		15	7.6	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Benzo[g,h,i]perylene	**36**		25	5.5	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Benzo[k]fluoranthene	**29**		10	4.5	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Chrysene	**67**		11	5.6	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Dibenz(a,h)anthracene	**10**	**J**	25	5.1	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Fluoranthene	**72**		25	5.0	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Fluorene	25	U	25	5.1	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Indeno[1,2,3-cd]pyrene	**22**	**J**	25	8.9	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
1-Methylnaphthalene	**40**	**J**	50	5.5	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
2-Methylnaphthalene	**39**	**J**	50	8.9	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Naphthalene	**38**	**J**	50	5.5	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Phenanthrene	**51**		10	4.9	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1
Pyrene	**59**		25	4.6	ug/Kg	☼	05/02/13 08:14	05/03/13 12:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*40*		*30 - 130*	*05/02/13 08:14*	*05/03/13 12:13*	*1*

Client Sample ID: CV1146A-GS

Lab Sample ID: 680-89791-37

Date Collected: 04/25/13 14:10
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Acenaphthylene	**7.8**	**J**	47	5.8	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Anthracene	**10**		9.8	4.9	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Benzo[a]anthracene	**36**		9.3	4.5	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Benzo[a]pyrene	**38**		12	6.0	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Benzo[b]fluoranthene	**50**		14	7.1	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Benzo[g,h,i]perylene	**34**		23	5.1	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Benzo[k]fluoranthene	**24**		9.3	4.2	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Chrysene	**48**		10	5.2	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Dibenz(a,h)anthracene	23	U	23	4.8	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Fluoranthene	**66**		23	4.7	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Fluorene	23	U	23	4.8	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Indeno[1,2,3-cd]pyrene	**15**	**J**	23	8.3	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
1-Methylnaphthalene	**19**	**J**	47	5.1	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
2-Methylnaphthalene	**19**	**J**	47	8.3	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Naphthalene	**18**	**J**	47	5.1	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Phenanthrene	**42**		9.3	4.5	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1
Pyrene	**62**		23	4.3	ug/Kg	☼	05/02/13 08:14	05/03/13 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*30 - 130*	*05/02/13 08:14*	*05/03/13 12:36*	*1*

Client Sample ID: CV1224A-CS

Lab Sample ID: 680-89791-38

Date Collected: 04/25/13 13:15
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 78.7

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	☼	05/02/13 08:14	05/03/13 12:59	1
Acenaphthylene	51	U	51	6.3	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Anthracene	**11**		11	5.3	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Benzo[a]anthracene	**39**		10	4.9	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Benzo[a]pyrene	**38**		13	6.6	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Benzo[b]fluoranthene	**60**		15	7.7	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Benzo[g,h,i]perylene	**34**		25	5.6	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Benzo[k]fluoranthene	**30**		10	4.6	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Chrysene	**67**		11	5.7	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Dibenz(a,h)anthracene	**8.7**	**J**	25	5.2	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Fluoranthene	**66**		25	5.1	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Fluorene	25	U	25	5.2	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Indeno[1,2,3-cd]pyrene	**17**	**J**	25	9.0	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
1-Methylnaphthalene	**36**	**J**	51	5.6	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
2-Methylnaphthalene	**37**	**J**	51	9.0	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Naphthalene	**29**	**J**	51	5.6	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Phenanthrene	**51**		10	4.9	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1
Pyrene	**52**		25	4.7	ug/Kg	☼	05/02/13 08:14	05/03/13 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*51*		*30 - 130*	*05/02/13 08:14*	*05/03/13 12:59*	*1*

Client Sample ID: CV1224B-CS

Lab Sample ID: 680-89791-39

Date Collected: 04/25/13 13:25
Matrix: Solid
Date Received: 04/27/13 08:25
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	☼	05/02/13 08:14	05/03/13 13:21	1
Acenaphthylene	52	U	52	6.5	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Anthracene	**11**		11	5.5	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Benzo[a]anthracene	**38**		10	5.1	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Benzo[a]pyrene	**44**		14	6.8	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Benzo[b]fluoranthene	**64**		16	7.9	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Benzo[g,h,i]perylene	**36**		26	5.7	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Benzo[k]fluoranthene	**32**		10	4.7	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Chrysene	**70**		12	5.9	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Dibenz(a,h)anthracene	**14**	**J**	26	5.3	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Fluoranthene	**79**		26	5.2	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Fluorene	**5.7**	**J**	26	5.3	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Indeno[1,2,3-cd]pyrene	**20**	**J**	26	9.3	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
1-Methylnaphthalene	**32**	**J**	52	5.7	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
2-Methylnaphthalene	**31**	**J**	52	9.3	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Naphthalene	**29**	**J**	52	5.7	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Phenanthrene	**53**		10	5.1	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1
Pyrene	**60**		26	4.8	ug/Kg	☼	05/02/13 08:14	05/03/13 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*42*		*30 - 130*	*05/02/13 08:14*	*05/03/13 13:21*	*1*

Client Sample ID: CV0282A-CS-SP

Lab Sample ID: 680-89791-40

Date Collected: 04/25/13 13:12
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Acenaphthylene	**6.5**	**J**	51	6.4	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Anthracene	**15**		11	5.4	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Benzo[a]anthracene	**61**		10	5.0	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Benzo[a]pyrene	**82**		13	6.7	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Benzo[b]fluoranthene	**130**		16	7.8	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Benzo[g,h,i]perylene	**80**		26	5.7	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Benzo[k]fluoranthene	**49**		10	4.6	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Chrysene	**130**		12	5.8	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Dibenz(a,h)anthracene	**25**	**J**	26	5.3	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Fluoranthene	**110**		26	5.1	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Fluorene	**8.0**	**J**	26	5.3	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Indeno[1,2,3-cd]pyrene	**44**		26	9.1	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
1-Methylnaphthalene	**46**	**J**	51	5.7	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
2-Methylnaphthalene	**53**		51	9.1	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Naphthalene	**43**	**J**	51	5.7	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Phenanthrene	**79**		10	5.0	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1
Pyrene	**79**		26	4.8	ug/Kg	☼	05/02/13 08:14	05/03/13 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*49*		*30 - 130*	*05/02/13 08:14*	*05/03/13 13:44*	*1*

Client Sample ID: FM0023A-CS-SP

Lab Sample ID: 680-89791-42

Date Collected: 04/25/13 14:02
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Acenaphthylene	**8.0**	**J**	48	6.0	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Anthracene	**16**		10	5.1	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Benzo[a]anthracene	**76**		9.7	4.7	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Benzo[a]pyrene	**73**		13	6.3	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Benzo[b]fluoranthene	**150**		15	7.4	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Benzo[g,h,i]perylene	**81**		24	5.3	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Benzo[k]fluoranthene	**57**		9.7	4.3	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Chrysene	**370**		11	5.4	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Dibenz(a,h)anthracene	**29**		24	4.9	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Fluoranthene	**160**		24	4.8	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Fluorene	**13**	**J**	24	4.9	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Indeno[1,2,3-cd]pyrene	**28**		24	8.6	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
1-Methylnaphthalene	**230**		48	5.3	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
2-Methylnaphthalene	**300**		48	8.6	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Naphthalene	**120**		48	5.3	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Phenanthrene	**330**		9.7	4.7	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1
Pyrene	**130**		24	4.5	ug/Kg	☼	05/02/13 08:14	05/03/13 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*30 - 130*	*05/02/13 08:14*	*05/03/13 15:14*	*1*

Client Sample ID: FM0023B-CS-SP

Lab Sample ID: 680-89791-43

Date Collected: 04/25/13 14:14
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Acenaphthylene	**8.7**	**J**	52	6.5	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Anthracene	**16**		11	5.4	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Benzo[a]anthracene	**64**		10	5.1	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Benzo[a]pyrene	**57**		13	6.7	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Benzo[b]fluoranthene	**100**		16	7.9	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Benzo[g,h,i]perylene	**45**		26	5.7	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Benzo[k]fluoranthene	**35**		10	4.7	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Chrysene	**100**		12	5.8	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Dibenz(a,h)anthracene	**14**	**J**	26	5.3	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Fluoranthene	**120**		26	5.2	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Fluorene	26	U	26	5.3	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Indeno[1,2,3-cd]pyrene	**25**	**J**	26	9.2	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
1-Methylnaphthalene	**49**	**J**	52	5.7	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
2-Methylnaphthalene	**69**		52	9.2	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Naphthalene	**61**		52	5.7	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Phenanthrene	**110**		10	5.1	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1
Pyrene	**87**		26	4.8	ug/Kg	☼	05/02/13 08:14	05/03/13 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*05/02/13 08:14*	*05/03/13 15:37*	*1*

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

Lab Sample ID: MB 660-136975/1-A
Matrix: Solid
Analysis Batch: 137070

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136975

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Acenaphthylene	40	U	40	5.0	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Fluorene	20	U	20	4.1	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Naphthalene	40	U	40	4.4	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		04/30/13 14:42	05/02/13 16:56	1
Pyrene	20	U	20	3.7	ug/Kg		04/30/13 14:42	05/02/13 16:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*30 - 130*	*04/30/13 14:42*	*05/02/13 16:56*	*1*

Lab Sample ID: LCS 660-136975/2-A
Matrix: Solid
Analysis Batch: 137070

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136975

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

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

Lab Sample ID: LCS 660-136975/2-A
Matrix: Solid
Analysis Batch: 137070

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136975

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	58		30 - 130

Lab Sample ID: 680-89791-22 MS
Matrix: Solid
Analysis Batch: 137070

Client Sample ID: CV0752C-GS-SP
Prep Type: Total/NA
Prep Batch: 136975

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

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	55		30 - 130

Lab Sample ID: 680-89791-22MSD
Matrix: Solid
Analysis Batch: 137070

Client Sample ID: CV0752C-GS-SP
Prep Type: Total/NA
Prep Batch: 136975

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	470		784	370	J	ug/Kg	☼	47	39 - 130	3	40
Acenaphthylene	190		784	353		ug/Kg	☼	45	38 - 130	3	40
Anthracene	39		784	397		ug/Kg	☼	51	37 - 130	5	40
Benzo[a]anthracene	61		784	489		ug/Kg	☼	55	40 - 130	4	40
Benzo[a]pyrene	49		784	377	F	ug/Kg	☼	48	49 - 130	1	40
Benzo[b]fluoranthene	50		784	431		ug/Kg	☼	49	37 - 130	4	40
Benzo[g,h,i]perylene	35		784	411		ug/Kg	☼	48	32 - 130	3	40
Benzo[k]fluoranthene	17		784	405		ug/Kg	☼	49	32 - 130	1	40
Chrysene	51		784	447		ug/Kg	☼	50	41 - 130	2	40
Dibenz(a,h)anthracene	94		784	465		ug/Kg	☼	59	27 - 130	5	40
Fluoranthene	64		784	391		ug/Kg	☼	42	40 - 130	3	40
Fluorene	94		784	372		ug/Kg	☼	47	40 - 130	8	40
Indeno[1,2,3-cd]pyrene	94		784	410		ug/Kg	☼	52	30 - 130	8	40
1-Methylnaphthalene	190		784	432		ug/Kg	☼	55	31 - 130	10	40

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

Lab Sample ID: 680-89791-22MSD
Matrix: Solid
Analysis Batch: 137070

Client Sample ID: CV0752C-GS-SP
Prep Type: Total/NA
Prep Batch: 136975

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	190		784	430		ug/Kg	☼	55	33 - 130	12	40
Naphthalene	22		784	403		ug/Kg	☼	49	36 - 130	12	40
Phenanthrene	61		784	442		ug/Kg	☼	49	42 - 130	4	40
Pyrene	59		784	438		ug/Kg	☼	48	44 - 130	2	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*53*		*30 - 130*

Lab Sample ID: MB 660-137037/1-A
Matrix: Solid
Analysis Batch: 137126

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137037

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		05/02/13 08:14	05/03/13 11:28	1
Acenaphthylene	40	U	40	5.0	ug/Kg		05/02/13 08:14	05/03/13 11:28	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		05/02/13 08:14	05/03/13 11:28	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		05/02/13 08:14	05/03/13 11:28	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		05/02/13 08:14	05/03/13 11:28	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		05/02/13 08:14	05/03/13 11:28	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		05/02/13 08:14	05/03/13 11:28	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		05/02/13 08:14	05/03/13 11:28	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		05/02/13 08:14	05/03/13 11:28	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		05/02/13 08:14	05/03/13 11:28	1
Fluoranthene	20	U	20	4.0	ug/Kg		05/02/13 08:14	05/03/13 11:28	1
Fluorene	20	U	20	4.1	ug/Kg		05/02/13 08:14	05/03/13 11:28	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		05/02/13 08:14	05/03/13 11:28	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		05/02/13 08:14	05/03/13 11:28	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		05/02/13 08:14	05/03/13 11:28	1
Naphthalene	40	U	40	4.4	ug/Kg		05/02/13 08:14	05/03/13 11:28	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		05/02/13 08:14	05/03/13 11:28	1
Pyrene	20	U	20	3.7	ug/Kg		05/02/13 08:14	05/03/13 11:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*30 - 130*	*05/02/13 08:14*	*05/03/13 11:28*	*1*

Lab Sample ID: LCS 660-137037/2-A
Matrix: Solid
Analysis Batch: 137156

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137037

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	665	411		ug/Kg		62	39 - 130
Acenaphthylene	665	463		ug/Kg		70	38 - 130
Anthracene	665	452		ug/Kg		68	37 - 130
Benzo[a]anthracene	665	465		ug/Kg		70	40 - 130
Benzo[a]pyrene	665	384		ug/Kg		58	49 - 130
Benzo[b]fluoranthene	665	375		ug/Kg		56	37 - 130
Benzo[g,h,i]perylene	665	545		ug/Kg		82	32 - 130
Benzo[k]fluoranthene	665	405		ug/Kg		61	32 - 130

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

Lab Sample ID: LCS 660-137037/2-A
Matrix: Solid
Analysis Batch: 137156

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137037

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chrysene			665	416		ug/Kg		62	41 - 130		
Dibenz(a,h)anthracene			665	537		ug/Kg		81	27 - 130		
Fluoranthene			665	427		ug/Kg		64	40 - 130		
Fluorene			665	467		ug/Kg		70	40 - 130		
Indeno[1,2,3-cd]pyrene			665	522		ug/Kg		78	30 - 130		
1-Methylnaphthalene			665	469		ug/Kg		71	31 - 130		
2-Methylnaphthalene			665	475		ug/Kg		71	33 - 130		
Naphthalene			665	425		ug/Kg		64	36 - 130		
Phenanthrene			665	451		ug/Kg		68	42 - 130		
Pyrene			665	557		ug/Kg		84	44 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*70*		*30 - 130*

GC/MS Semi VOA

Prep Batch: 136975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89791-22	CV0752C-GS-SP	Total/NA	Solid	3546	
680-89791-22 MS	CV0752C-GS-SP	Total/NA	Solid	3546	
680-89791-22MSD	CV0752C-GS-SP	Total/NA	Solid	3546	
680-89791-24	CV1312B-CS-SP	Total/NA	Solid	3546	
680-89791-25	CV1220A-CS	Total/NA	Solid	3546	
680-89791-26	CV1220A-CSD	Total/NA	Solid	3546	
680-89791-27	CV1220B-CS	Total/NA	Solid	3546	
680-89791-28	CV1227A-CS	Total/NA	Solid	3546	
680-89791-29	CV1227B-CS	Total/NA	Solid	3546	
680-89791-30	CV1227C-CS	Total/NA	Solid	3546	
680-89791-31	CV1228A-CS	Total/NA	Solid	3546	
680-89791-32	CV1228B-CS	Total/NA	Solid	3546	
680-89791-33	CV1144A-CS	Total/NA	Solid	3546	
680-89791-34	CV1144B-CS	Total/NA	Solid	3546	
680-89791-35	CV1144C-CS	Total/NA	Solid	3546	
LCS 660-136975/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136975/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 137037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89791-36	CV1144C-CSD	Total/NA	Solid	3546	
680-89791-37	CV1146A-GS	Total/NA	Solid	3546	
680-89791-38	CV1224A-CS	Total/NA	Solid	3546	
680-89791-39	CV1224B-CS	Total/NA	Solid	3546	
680-89791-40	CV0282A-CS-SP	Total/NA	Solid	3546	
680-89791-42	FM0023A-CS-SP	Total/NA	Solid	3546	
680-89791-43	FM0023B-CS-SP	Total/NA	Solid	3546	
LCS 660-137037/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-137037/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 137070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89791-22	CV0752C-GS-SP	Total/NA	Solid	8270C LL	136975
680-89791-22 MS	CV0752C-GS-SP	Total/NA	Solid	8270C LL	136975
680-89791-22MSD	CV0752C-GS-SP	Total/NA	Solid	8270C LL	136975
680-89791-24	CV1312B-CS-SP	Total/NA	Solid	8270C LL	136975
680-89791-25	CV1220A-CS	Total/NA	Solid	8270C LL	136975
680-89791-26	CV1220A-CSD	Total/NA	Solid	8270C LL	136975
680-89791-27	CV1220B-CS	Total/NA	Solid	8270C LL	136975
680-89791-28	CV1227A-CS	Total/NA	Solid	8270C LL	136975
680-89791-29	CV1227B-CS	Total/NA	Solid	8270C LL	136975
680-89791-30	CV1227C-CS	Total/NA	Solid	8270C LL	136975
680-89791-31	CV1228A-CS	Total/NA	Solid	8270C LL	136975
680-89791-32	CV1228B-CS	Total/NA	Solid	8270C LL	136975
680-89791-33	CV1144A-CS	Total/NA	Solid	8270C LL	136975
680-89791-34	CV1144B-CS	Total/NA	Solid	8270C LL	136975
680-89791-35	CV1144C-CS	Total/NA	Solid	8270C LL	136975
LCS 660-136975/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136975
MB 660-136975/1-A	Method Blank	Total/NA	Solid	8270C LL	136975

GC/MS Semi VOA (Continued)

Analysis Batch: 137126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89791-36	CV1144C-CSD	Total/NA	Solid	8270C LL	137037
680-89791-37	CV1146A-GS	Total/NA	Solid	8270C LL	137037
680-89791-38	CV1224A-CS	Total/NA	Solid	8270C LL	137037
680-89791-39	CV1224B-CS	Total/NA	Solid	8270C LL	137037
680-89791-40	CV0282A-CS-SP	Total/NA	Solid	8270C LL	137037
680-89791-42	FM0023A-CS-SP	Total/NA	Solid	8270C LL	137037
680-89791-43	FM0023B-CS-SP	Total/NA	Solid	8270C LL	137037
MB 660-137037/1-A	Method Blank	Total/NA	Solid	8270C LL	137037

Analysis Batch: 137156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 660-137037/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	137037

General Chemistry

Analysis Batch: 136953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89791-22	CV0752C-GS-SP	Total/NA	Solid	Moisture	
680-89791-22 MS	CV0752C-GS-SP	Total/NA	Solid	Moisture	
680-89791-22 MSD	CV0752C-GS-SP	Total/NA	Solid	Moisture	
680-89791-24	CV1312B-CS-SP	Total/NA	Solid	Moisture	
680-89791-25	CV1220A-CS	Total/NA	Solid	Moisture	
680-89791-26	CV1220A-CSD	Total/NA	Solid	Moisture	
680-89791-27	CV1220B-CS	Total/NA	Solid	Moisture	
680-89791-28	CV1227A-CS	Total/NA	Solid	Moisture	
680-89791-29	CV1227B-CS	Total/NA	Solid	Moisture	
680-89791-30	CV1227C-CS	Total/NA	Solid	Moisture	
680-89791-31	CV1228A-CS	Total/NA	Solid	Moisture	
680-89791-32	CV1228B-CS	Total/NA	Solid	Moisture	
680-89791-33	CV1144A-CS	Total/NA	Solid	Moisture	
680-89791-34	CV1144B-CS	Total/NA	Solid	Moisture	
680-89791-35	CV1144C-CS	Total/NA	Solid	Moisture	
680-89791-36	CV1144C-CSD	Total/NA	Solid	Moisture	
680-89791-37	CV1146A-GS	Total/NA	Solid	Moisture	
680-89791-38	CV1224A-CS	Total/NA	Solid	Moisture	
680-89791-39	CV1224B-CS	Total/NA	Solid	Moisture	
680-89791-40	CV0282A-CS-SP	Total/NA	Solid	Moisture	
680-89791-42	FM0023A-CS-SP	Total/NA	Solid	Moisture	
680-89791-43	FM0023B-CS-SP	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-89791-2
SDG: 68089791-2

Client Sample ID: CV0752C-GS-SP

Lab Sample ID: 680-89791-22
Date Collected: 04/25/13 09:23
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136975	04/30/13 14:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	137070	05/02/13 19:12	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

Client Sample ID: CV1312B-CS-SP

Lab Sample ID: 680-89791-24
Date Collected: 04/25/13 10:01
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 74.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136975	04/30/13 14:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137070	05/02/13 20:12	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

Client Sample ID: CV1220A-CS

Lab Sample ID: 680-89791-25
Date Collected: 04/25/13 09:30
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 75.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136975	04/30/13 14:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137070	05/02/13 20:27	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

Client Sample ID: CV1220A-CSD

Lab Sample ID: 680-89791-26
Date Collected: 04/25/13 09:30
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136975	04/30/13 14:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137070	05/02/13 20:43	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

Client Sample ID: CV1220B-CS

Lab Sample ID: 680-89791-27
Date Collected: 04/25/13 09:50
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 76.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136975	04/30/13 14:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	137070	05/02/13 20:57	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

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

TestAmerica Job ID: 680-89791-2
SDG: 68089791-2

Client Sample ID: CV1227A-CS

Lab Sample ID: 680-89791-28
Date Collected: 04/25/13 10:25
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136975	04/30/13 14:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137070	05/02/13 21:12	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

Client Sample ID: CV1227B-CS

Lab Sample ID: 680-89791-29
Date Collected: 04/25/13 10:40
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136975	04/30/13 14:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137070	05/02/13 21:27	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

Client Sample ID: CV1227C-CS

Lab Sample ID: 680-89791-30
Date Collected: 04/25/13 10:50
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 70.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136975	04/30/13 14:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137070	05/02/13 21:42	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

Client Sample ID: CV1228A-CS

Lab Sample ID: 680-89791-31
Date Collected: 04/25/13 11:15
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136975	04/30/13 14:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	137070	05/02/13 21:57	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

Client Sample ID: CV1228B-CS

Lab Sample ID: 680-89791-32
Date Collected: 04/25/13 11:20
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136975	04/30/13 14:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	137070	05/02/13 22:12	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-89791-2
SDG: 68089791-2

Client Sample ID: CV1144A-CS

Lab Sample ID: 680-89791-33
Date Collected: 04/25/13 14:00
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136975	04/30/13 14:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137070	05/02/13 22:27	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

Client Sample ID: CV1144B-CS

Lab Sample ID: 680-89791-34
Date Collected: 04/25/13 14:15
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136975	04/30/13 14:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137070	05/02/13 22:42	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

Client Sample ID: CV1144C-CS

Lab Sample ID: 680-89791-35
Date Collected: 04/25/13 14:25
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 80.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136975	04/30/13 14:42	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137070	05/02/13 22:57	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

Client Sample ID: CV1144C-CSD

Lab Sample ID: 680-89791-36
Date Collected: 04/25/13 14:25
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137037	05/02/13 08:14	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137126	05/03/13 12:13	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

Client Sample ID: CV1146A-GS

Lab Sample ID: 680-89791-37
Date Collected: 04/25/13 14:10
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137037	05/02/13 08:14	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137126	05/03/13 12:36	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-89791-2
SDG: 68089791-2

Client Sample ID: CV1224A-CS

Lab Sample ID: 680-89791-38
Date Collected: 04/25/13 13:15
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137037	05/02/13 08:14	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137126	05/03/13 12:59	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

Client Sample ID: CV1224B-CS

Lab Sample ID: 680-89791-39
Date Collected: 04/25/13 13:25
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137037	05/02/13 08:14	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137126	05/03/13 13:21	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

Client Sample ID: CV0282A-CS-SP

Lab Sample ID: 680-89791-40
Date Collected: 04/25/13 13:12
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137037	05/02/13 08:14	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137126	05/03/13 13:44	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

Client Sample ID: FM0023A-CS-SP

Lab Sample ID: 680-89791-42
Date Collected: 04/25/13 14:02
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137037	05/02/13 08:14	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137126	05/03/13 15:14	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

Client Sample ID: FM0023B-CS-SP

Lab Sample ID: 680-89791-43
Date Collected: 04/25/13 14:14
Matrix: Solid
Date Received: 04/27/13 08:25
Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137037	05/02/13 08:14	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137126	05/03/13 15:37	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136953	04/30/13 06:31	AG	TAL TAM

Laboratory References:

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

Serial Number 64692

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: 680-89791
Fax:

PROJECT REFERENCE: 35th Ave Removal
PROJECT NO.: 2005148-1356
PROJECT LOCATION (STATE): AL

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 2 OF 5

STANDARD REPORT DELIVERY ○
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
10 Calendar Days TAT
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 4 L PAHs	RCRA 8 Metals	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4-24-13	1341	CV0790A-CS-SP	C		X			X			
	1352	CV0790B-CS-SP	C		X			X			
	1354	CV0790C-CS-SP	C		X			X	X		
	1127	CV1342B-CS-SP (sieve)	C		X				X		
	1354	CV0790C-CS-SP (sieve)	C		X				X		
4-25-13	1058	CV0121A-CS-SP	C		X			X			
	1112	CV0121B-CS-SP	C		X			X			
	0900	CV0752A-CS-SP	C		X			X			
	0913	CV0752B-CS-SP	C		X			X	X		
	0923	CV0752C-CS-SP	C		X			X			
	0950	CV1312A-CS-SP	C		X			X			
	1001	CV1312B-CS-SP	C		X			X			

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature] Austin	4-26-13	1130						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature] Emily Edney	4/27/13	825	YES ○ NO ○			

TAL8240-680 (1008)

Serial Number 64693

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: 608-89791
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	200514B - 1356	AL

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 3 OF 5

STANDARD REPORT DELIVERY ○
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 22 PAH	Pcbs & Metals	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4-25-13	0930	CV 1220 A - CS	C		X			X			
	0930	CV 1220 A - CSD	C		X			X			
	0950	CV 1220 B - CS	C		X			X			
	1025	CV 1227 A - CS	C		X			X			
	1040	CV 1227 B - CS	C		X			X			
	1050	CV 1227 C - CS	C		X			X	X		
	1115	CV 1228 A - CS	C		X			X			
	1120	CV 1228 B - CS	C		X			X	X		
	1400	CV 1144 A - CS	C		X			X			
	1415	CV 1144 B - CS	C		X			X			
	1425	CV 1144 C - CS	C		X			X			
	1425	CV 1144 C - CSD	C		X			X			

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	4-26-13	1130						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	4/27/13	825	YES ○ NO ○			

TAL-8240-680 (1009)

50
32

Serial Number 64694

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

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

Alternate Laboratory Name/Location: Test Am Tampa
Phone: 680-89791
Fax:

PROJECT REFERENCE: 35th Ave Removal
PROJECT NO.: 200548-1356
PROJECT LOCATION (STATE): AL

MATRIX TYPE

REQUIRED ANALYSIS

PAGE 4 OF 5

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

STANDARD REPORT DELIVERY ○
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

PRESERVATIVE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	12 PAH	Pest & Metals	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4-25-13	1400	CV1146A-GS	G		X			X			
	1315	CV1224A-CS	C		X			X			
	1325	CV1224B-CS	C		X			X			
	1312	CV0282A-CS-SP	C		X			X			
	1325	CV0282B-CS-SP	C		X			X			
	1402	FM0023A-CS-SP	C		X			X			
	1414	FM0023B-CS-SP	C		X			X			
	1428	FM0023C-CS-SP	C		X			X			
	1557	FM0245A-CS-SP	C		X			X			
	1605	FM0245B-CS-SP	C		X			X			
	1608	FM0245C-CS-SP	C		X			X			
4-26-13	0848	CV1142A-CS	C		X			X			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Anglin	4-26-13	1130						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Emily Edney	4/27/13	825	YES ○ NO ○			

TAL8240-680 (1008)

5/7/2013

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89791-2
SDG Number: 68089791-2

Login Number: 89791
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

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

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89791-2
SDG Number: 68089791-2

Login Number: 89791
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 04/29/13 01:27 PM

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

Certification Summary

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

TestAmerica Job ID: 680-89791-2
SDG: 68089791-2

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
Arkansas DEQ	State Program	6	88-0692	02-01-13 *
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13 *
Kentucky	State Program	4	90084	12-31-12 *
Kentucky (UST)	State Program	4	18	03-31-13 *
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13 *
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13 *
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13 *
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAP	4	E84282	06-30-13

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

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

TestAmerica Job ID: 680-89791-2
SDG: 68089791-2

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
Georgia	State Program	4	905	06-30-13
USDA	Federal		P330-11-00177	04-20-14