REDACTED

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	TestAmerica - Savannah, GA[1]	Job ID.:	680-89985-1
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Samples Collected:	05/01/2013 & 05/02/2013
Reviewer:	Karen Marie Trujillo, URS Group, Inc.	Date:	05/28/2013
Concurrence[2]:	Martha Meyers-Lee, URS Group, Inc.	Date:	05/30/2013

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 680-89896-23 (050113-RB-Bowls&Spoons).	

[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, 680-89896-23 (050113-RB-Bowls&Spoons), was collected during the week of 4/29/13. The rinsate blank was analyzed for PAHs under Test America Job ID 680-89896-1.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?	✓			• HP0333A-CSD (680-89985-5) is a field duplicate of HP0333A-CS (680-89985-4). • CV1114A-CSD (680-89985-9) is a field duplicate of CV1114A-CS (680-89985-8). • CV1166B-CSD (680-89985-13) is a field duplicate of CV1166B-CS (680-89985-12). • CV1165B-CSD (680-89985-20) is a field duplicate of CV1165B-CS (680-89985-19).	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to **Attachment B** (Field Duplicate Evaluation)	J/UJ
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: 05/06/2013 • ICV: 05/06/13 @ 12:11 • CCV: 05/07/13 @ 12:34 • CCV: 05/08/13 @ 14:31 • CCV: 05/09/13 @ 10:56	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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 r^2≥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: ≤20%D (≤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	✓				
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 137132: 680-89985-3 (CV1067B-CS), MS/MSD • Prep Batch 137234: 680-89985-22 (Batch sample), MS/MSD. Lab sample 680-89985-22 is a project-specific sample (CV1237B-CS) that was selected by TestAmerica for the PAH MS/MSD analyses, and the results were reported under Job ID 680-89985-2.	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
25. Were MS/MSD recoveries within laboratory/project specifications? *Only QC results for project samples are evaluated 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, 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		✓		CV1067B-CS (680-89985-3): • Benzo[a]anthracene @ 64 and 188 %R (40-130). Qualification of data not required[3]. • Benzo[b]fluoranthene @ 57 and 235 %R (37-130). Qualification of data not required[3]. • Benzo[k]fluoranthene @ 51 and 137 %R (32-130). Qualification of data not required[3]. • Chrysene @ 56 and 239 %R (41-130). Qualification of data not required[3]. • Fluoranthene @ 64 and 471%R (40-130). Qualification of data not required[3]. • Pyrene @ 84 and 392 %R (44-130). Qualification of data not required[3].	
26. Were laboratory criteria met for precision during the MS/MSD analysis? *Only QC results for project samples are evaluated 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.		✓		CV1067B-CS (680-89985-3): • Benzo[a]anthracene @ 82 %RPD (≤40). J-Flag • Benzo[a]pyrene @ 57 %RPD (≤40). J-Flag • Benzo[b]fluoranthene @ 91 %RPD (≤40). J-Flag • Benzo[k]fluoranthene @ 76 %RPD (≤40). J-Flag • Chrysene @ 95 %RPD (≤40). J-Flag • Fluoranthene @ 119 %RPD (≤40). J-Flag • Naphthalene @ 60 %RPD (≤40). J-Flag • Pyrene @ 108 %RPD (≤40). J-Flag	J
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-	✓				

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

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.					
29. Were lab comments included in report?	✓			Refer to **Attachment C** (Case Narrative)	
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: 680-89985-1
SDG: 68089985-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89985-1	CV0725A-CS	Solid	05/01/13 10:00	05/03/13 11:15
680-89985-2	CV1067A-CS	Solid	05/01/13 10:40	05/03/13 11:15
680-89985-3	CV1067B-CS	Solid	05/01/13 10:50	05/03/13 11:15
680-89985-4	HP0333A-CS	Solid	05/01/13 09:20	05/03/13 11:15
680-89985-5	HP0333A-CSD	Solid	05/01/13 09:20	05/03/13 11:15
680-89985-6	HP0333B-CS	Solid	05/01/13 09:30	05/03/13 11:15
680-89985-7	HP0334A-CS	Solid	05/01/13 08:50	05/03/13 11:15
680-89985-8	CV1114A-CS	Solid	05/01/13 13:25	05/03/13 11:15
680-89985-9	CV1114A-CSD	Solid	05/01/13 13:25	05/03/13 11:15
680-89985-10	CV1114B-CS	Solid	05/01/13 13:35	05/03/13 11:15
680-89985-11	CV1166A-CS	Solid	05/01/13 12:45	05/03/13 11:15
680-89985-12	CV1166B-CS	Solid	05/01/13 12:50	05/03/13 11:15
680-89985-13	CV1166B-CSD	Solid	05/01/13 12:50	05/03/13 11:15
680-89985-14	CV1177A-CS	Solid	05/01/13 14:00	05/03/13 11:15
680-89985-15	CV1177B-CS	Solid	05/01/13 14:10	05/03/13 11:15
680-89985-16	CV1006A-CS	Solid	05/02/13 10:00	05/03/13 11:15
680-89985-17	CV1006B-CS	Solid	05/02/13 10:10	05/03/13 11:15
680-89985-18	CV1165A-CS	Solid	05/02/13 09:20	05/03/13 11:15
680-89985-19	CV1165B-CS	Solid	05/02/13 09:30	05/03/13 11:15
680-89985-20	CV1165B-CSD	Solid	05/02/13 09:30	05/03/13 11:15

ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results **Attachment B**

Analyte	CV1166B-CS 680-89985-12		RL	CV1166B-CSD 680-89985-13		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthene	91	J	130		U	120	µg/kg	625	NA	91	250	None, absolute difference ≤ 2x Avg RL
Acenaphthylene	43	J	51	32	J	49	µg/kg	250	NA	11	100	None, absolute difference ≤ 2x Avg RL
Anthracene	190		11	54		10	µg/kg	52.5	**111**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(a)anthracene	590		10	180		9.8	µg/kg	49.5	**106**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(a)pyrene	460		13	150		13	µg/kg	65	**102**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(b)fluoranthene	710		16	250		15	µg/kg	77.5	**96**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(g,h,i)perylene	240		26	95		25	µg/kg	127.5	NA	**145**	**51**	**J/UJ-flag, absolute difference > 2x Avg RL**
Benzo(k)fluoranthene	220		10	95		9.8	µg/kg	49.5	**79**	NA	NA	**J/UJ-flag, RPD > 50%**
Chrysene	470		11	200		11	µg/kg	55	**81**	NA	NA	**J/UJ-flag, RPD > 50%**
Dibenzo(a,h)anthracene	85		26	33		25	µg/kg	127.5	NA	**52**	**51**	**J/UJ-flag, absolute difference > 2x Avg RL**
Fluoranthene	970		26	250		25	µg/kg	127.5	**118**	NA	NA	**J/UJ-flag, RPD > 50%**
Fluorene	68		26	12	J	25	µg/kg	127.5	NA	**56**	**51**	**J/UJ-flag, absolute difference > 2x Avg RL**
Indeno(1,2,3-cd)pyrene	270		26	82		25	µg/kg	127.5	NA	**188**	**51**	**J/UJ-flag, absolute difference > 2x Avg RL**
1-Methylnaphthalene	110		51	90		49	µg/kg	250	NA	20	100	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	130		51	120		49	µg/kg	250	NA	10	100	None, absolute difference ≤ 2x Avg RL
Naphthalene	110		51	88		49	µg/kg	250	NA	22	100	None, absolute difference ≤ 2x Avg RL
Phenanthrene	700		10	190		9.8	µg/kg	49.5	**115**	NA	NA	**J/UJ-flag, RPD > 50%**
Pyrene	640		26	190		25	µg/kg	127.5	**108**	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
NA - Not applicable
RL - Reporting limit
RPD - Relative percent difference
U - Not detected at the associated limit
UJ - Not detected and the limit is estimated

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

Evaluation of Field Duplicate Results **Attachment B**

Analyte	CV1114A-CS 680-89985-8	RL	CV1114A-CSD 680-89985-9		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthene	190	110		U	120	µg/kg	575	NA	190	230	None, absolute difference ≤ 2x Avg RL
Acenaphthylene	110	45	29	J	48	µg/kg	232.5	NA	81	93	None, absolute difference ≤ 2x Avg RL
Anthracene	810	9.4	35		10	µg/kg	48.5	NA	**775**	**19.4**	**J/UJ-flag, absolute difference > 2x Avg RL**
Benzo(a)anthracene	3400	9.0	150		9.7	µg/kg	46.75	**183**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(a)pyrene	2500	12	130		13	µg/kg	62.5	**180**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(b)fluoranthene	3100	55	180		15	µg/kg	175	**178**	NA	NA	**J/UJ-flag, RPD > 50%**
Benzo(g,h,i)perylene	1600	22	110		24	µg/kg	115	NA	**1490**	**46**	**J/UJ-flag, absolute difference > 2x Avg RL**
Benzo(k)fluoranthene	1600	9.0	100		9.7	µg/kg	46.75	**176**	NA	NA	**J/UJ-flag, RPD > 50%**
Chrysene	2900	10	160		11	µg/kg	52.5	**179**	NA	NA	**J/UJ-flag, RPD > 50%**
Dibenzo(a,h)anthracene	690	22	31		24	µg/kg	115	NA	**659**	**46**	**J/UJ-flag, absolute difference > 2x Avg RL**
Fluoranthene	4500	90	230		24	µg/kg	285	NA	**4270**	**114**	**J/UJ-flag, absolute difference > 2x Avg RL**
Fluorene	130	22	6.8	J	24	µg/kg	115	NA	**123.2**	**46**	**J/UJ-flag, absolute difference > 2x Avg RL**
Indeno(1,2,3-cd)pyrene	1600	22	100		24	µg/kg	115	NA	**1500**	**46**	**J/UJ-flag, absolute difference > 2x Avg RL**
1-Methylnaphthalene	130	45	56		48	µg/kg	232.5	NA	74	93	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	200	45	78		48	µg/kg	232.5	NA	**122**	**93**	**J/UJ-flag, absolute difference > 2x Avg RL**
Naphthalene	170	45	58		48	µg/kg	232.5	NA	**112**	**93**	**J/UJ-flag, absolute difference > 2x Avg RL**
Phenanthrene	3500	9.0	150		9.7	µg/kg	46.75	**184**	NA	NA	**J/UJ-flag, RPD > 50%**
Pyrene	3700	90	180		24	µg/kg	285	NA	**3520**	**114**	**J/UJ-flag, absolute difference > 2x Avg RL**

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

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RL - Reporting limit
RPD - Relative percent difference
U - Not detected at the associated limit
UJ - Not detected and the limit is estimated

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

Evaluation of Field Duplicate Results **Attachment B**

Analyte	HP0333A-CS 680-89985-4		RL	HP0333A-CSD 680-89985-5		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	24	J	52	20	J	54	µg/kg	265	NA	4	106	None, absolute difference ≤ 2x Avg RL
Anthracene	41		11	55		11	µg/kg	55	NA	14	22	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	210		10	250		11	µg/kg	52.5	17	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	220		14	220		14	µg/kg	70	0	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	290		16	320		16	µg/kg	80	10	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	220		26	230		27	µg/kg	132.5	4	NA	NA	None, RPD ≤ 50%
Benzo(k)fluoranthene	140		10	150		11	µg/kg	52.5	7	NA	NA	None, RPD ≤ 50%
Chrysene	250		12	290		12	µg/kg	60	15	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	70		26	70		27	µg/kg	132.5	NA	0	53	None, absolute difference ≤ 2x Avg RL
Fluoranthene	220		26	220		27	µg/kg	132.5	0	NA	NA	None, RPD ≤ 50%
Fluorene	19	J	26	24	J	27	µg/kg	132.5	NA	5	53	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	190		26	210		27	µg/kg	132.5	10	NA	NA	None, RPD ≤ 50%
1-Methylnaphthalene	88		52	140		54	µg/kg	265	NA	52	106	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	110		52	160		54	µg/kg	265	NA	50	106	None, absolute difference ≤ 2x Avg RL
Naphthalene	140		52	150		54	µg/kg	265	NA	10	106	None, absolute difference ≤ 2x Avg RL
Phenanthrene	250		10	300		11	µg/kg	52.5	18	NA	NA	None, RPD ≤ 50%
Pyrene	200		26	200		27	µg/kg	132.5	0	NA	NA	None, RPD ≤ 50%

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

µg/kg - micrograms per kilogram
J - Estimated value
NA - Not applicable
RL - Reporting limit
RPD - Relative percent difference

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	CV1165B-CS 680-89985-19		RL	CV1165B-CSD 680-89985-20		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthene		U	130		U	500	µg/kg	1575	NA	0	630	None, absolute difference ≤ 2x Avg RL
Acenaphthylene		U	52		U	200	µg/kg	630	NA	0	252	None, absolute difference ≤ 2x Avg RL
Anthracene	12		11	25	J	42	µg/kg	132.5	NA	13	53	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene		U	10	120		40	µg/kg	125	NA	**120**	**50**	**J/UJ-flag, absolute difference > 2x Avg RL**
Benzo(a)pyrene	33		13	51	J	52	µg/kg	162.5	NA	18	65	None, absolute difference ≤ 2x Avg RL
Benzo(b)fluoranthene	65		16	100		62	µg/kg	195	NA	35	78	None, absolute difference ≤ 2x Avg RL
Benzo(g,h,i)perylene	27		26	69	J	100	µg/kg	315	NA	42	126	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	22		10	32	J	40	µg/kg	125	NA	10	50	None, absolute difference ≤ 2x Avg RL
Chrysene	62		12	94		45	µg/kg	142.5	NA	32	57	None, absolute difference ≤ 2x Avg RL
Dibenzo(a,h)anthracene		U	26	22	J	100	µg/kg	315	NA	22	126	None, absolute difference ≤ 2x Avg RL
Fluoranthene	58		26	86	J	100	µg/kg	315	NA	28	126	None, absolute difference ≤ 2x Avg RL
Fluorene	8.5	J	26		U	100	µg/kg	315	NA	8.5	126	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	24	J	26	51	J	100	µg/kg	315	NA	27	126	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	34	J	52	52	J	200	µg/kg	630	NA	18	252	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	38	J	52	72	J	200	µg/kg	630	NA	34	252	None, absolute difference ≤ 2x Avg RL
Naphthalene	39	J	52	66	J	200	µg/kg	630	NA	27	252	None, absolute difference ≤ 2x Avg RL
Phenanthrene	66		10	120		40	µg/kg	125	NA	**54**	**50**	**J/UJ-flag, absolute difference > 2x Avg RL**
Pyrene	50		26	88	J	100	µg/kg	315	NA	38	126	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
NA - Not applicable
RL - Reporting limit
RPD - Relative percent difference
U - Not detected at the associated limit
UJ - Not detected and the limit is estimated

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

ATTACHMENT C

CASE NARRATIVE

Job ID: 680-89985-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89985-1

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

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

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

RECEIPT

The samples were received on 05/03/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 4.4º C, 5.2º C and 5.6º C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0725A-CS (680-89985-1), CV1067A-CS (680-89985-2), CV1067B-CS (680-89985-3), HP0333A-CS (680-89985-4), HP0333A-CSD (680-89985-5), HP0333B-CS (680-89985-6), HP0334A-CS (680-89985-7), CV1114A-CS (680-89985-8), CV1114A-CSD (680-89985-9), CV1114B-CS (680-89985-10), CV1166A-CS (680-89985-11), CV1166B-CS (680-89985-12), CV1166B-CSD (680-89985-13), CV1177A-CS (680-89985-14), CV1177B-CS (680-89985-15), CV1006A-CS (680-89985-16), CV1006B-CS (680-89985-17), CV1165A-CS (680-89985-18), CV1165B-CS (680-89985-19) and CV1165B-CSD (680-89985-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 05/06/2013 and 05/08/2013 and analyzed on 05/07/2013 and 05/09/2013.

Samples CV1114A-CS (680-89985-8)[4X] and CV1165B-CSD (680-89985-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MSD of sample CV1067B-CSMSD (680-89985-3) in batch 660-137156. Several analytes exceeded the rpd limit.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-89985-22 in batch 660-137283. Fluoranthene and Pyrene exceeded the rpd limit.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

ATTACHMENT D

QUALIFIED SAMPLE RESULTS

Client Sample ID: CV0725A-CS

Lab Sample ID: 680-89985-1

Date Collected: 05/01/13 10:00
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 88.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Acenaphthylene	**73**		45	5.6	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Anthracene	**140**		9.4	4.7	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Benzo[a]anthracene	**360**		9.0	4.4	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Benzo[a]pyrene	**330**		12	5.8	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Benzo[b]fluoranthene	**450**		14	6.8	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Benzo[g,h,i]perylene	**330**		22	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Benzo[k]fluoranthene	**220**		9.0	4.0	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Chrysene	**340**		10	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Dibenz(a,h)anthracene	**88**		22	4.6	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Fluoranthene	**510**		22	4.5	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Fluorene	**36**		22	4.6	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Indeno[1,2,3-cd]pyrene	**300**		22	8.0	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
1-Methylnaphthalene	**100**		45	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
2-Methylnaphthalene	**120**		45	8.0	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Naphthalene	**110**		45	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Phenanthrene	**390**		9.0	4.4	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Pyrene	**460**		22	4.2	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*05/06/13 08:14*	*05/07/13 13:21*	*1*

Client Sample ID: CV1067A-CS

Lab Sample ID: 680-89985-2

Date Collected: 05/01/13 10:40
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 81.6

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	☼	05/06/13 08:14	05/07/13 13:36	1
Acenaphthylene	**31**	**J**	49	6.2	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Anthracene	**49**		10	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Benzo[a]anthracene	**150**		9.8	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Benzo[a]pyrene	**120**		13	6.4	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Benzo[b]fluoranthene	**190**		15	7.5	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Benzo[g,h,i]perylene	**170**		25	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Benzo[k]fluoranthene	**77**		9.8	4.4	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Chrysene	**160**		11	5.5	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Dibenz(a,h)anthracene	**41**		25	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Fluoranthene	**200**		25	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Fluorene	**10**	**J**	25	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Indeno[1,2,3-cd]pyrene	**110**		25	8.7	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
1-Methylnaphthalene	**75**		49	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
2-Methylnaphthalene	**83**		49	8.7	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Naphthalene	**70**		49	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Phenanthrene	**190**		9.8	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Pyrene	**170**		25	4.6	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*05/06/13 08:14*	*05/07/13 13:36*	*1*

Client Sample ID: CV1067B-CS

Lab Sample ID: 680-89985-3

Date Collected: 05/01/13 10:50
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 73.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Acenaphthylene	**50**	**J**	54	6.7	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Anthracene	**97**		11	5.6	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Benzo[a]anthracene	**220**	**F**	11	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Benzo[a]pyrene	**230**	**F**	14	7.0	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Benzo[b]fluoranthene	**450**	**F**	16	8.2	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Benzo[g,h,i]perylene	**200**		27	5.9	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Benzo[k]fluoranthene	**170**	**F**	11	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Chrysene	**410**	**F**	12	6.1	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Dibenz(a,h)anthracene	**54**		27	5.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Fluoranthene	**670**	**F**	27	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Fluorene	**19**	**J**	27	5.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Indeno[1,2,3-cd]pyrene	**180**		27	9.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
1-Methylnaphthalene	**140**		54	5.9	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
2-Methylnaphthalene	**140**		54	9.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Naphthalene	**100**	**F**	54	5.9	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Phenanthrene	**580**		11	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Pyrene	**420**	**F**	27	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*47*		*30 - 130*	*05/06/13 08:14*	*05/07/13 14:21*	*1*

Client Sample ID: HP0333A-CS

Lab Sample ID: 680-89985-4

Date Collected: 05/01/13 09:20
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 74.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Acenaphthylene	**24**	**J**	52	6.5	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Anthracene	**41**		11	5.5	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Benzo[a]anthracene	**210**		10	5.1	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Benzo[a]pyrene	**220**		14	6.8	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Benzo[b]fluoranthene	**290**		16	8.0	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Benzo[g,h,i]perylene	**220**		26	5.7	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Benzo[k]fluoranthene	**140**		10	4.7	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Chrysene	**250**		12	5.9	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Dibenz(a,h)anthracene	**70**		26	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Fluoranthene	**220**		26	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Fluorene	**19**	**J**	26	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Indeno[1,2,3-cd]pyrene	**190**		26	9.3	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
1-Methylnaphthalene	**88**		52	5.7	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
2-Methylnaphthalene	**110**		52	9.3	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Naphthalene	**140**		52	5.7	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Phenanthrene	**250**		10	5.1	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Pyrene	**200**		26	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*05/06/13 08:14*	*05/07/13 13:51*	*1*

Client Sample ID: HP0333A-CSD

Lab Sample ID: 680-89985-5

Date Collected: 05/01/13 09:20
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 73.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Acenaphthylene	**20**	**J**	54	6.7	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Anthracene	**55**		11	5.6	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Benzo[a]anthracene	**250**		11	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Benzo[a]pyrene	**220**		14	7.0	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Benzo[b]fluoranthene	**320**		16	8.2	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Benzo[g,h,i]perylene	**230**		27	5.9	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Benzo[k]fluoranthene	**150**		11	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Chrysene	**290**		12	6.0	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Dibenz(a,h)anthracene	**70**		27	5.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Fluoranthene	**220**		27	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Fluorene	**24**	**J**	27	5.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Indeno[1,2,3-cd]pyrene	**210**		27	9.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
1-Methylnaphthalene	**140**		54	5.9	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
2-Methylnaphthalene	**160**		54	9.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Naphthalene	**150**		54	5.9	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Phenanthrene	**300**		11	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Pyrene	**200**		27	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*30 - 130*	*05/06/13 08:14*	*05/07/13 14:06*	*1*

Client Sample ID: HP0333B-CS

Lab Sample ID: 680-89985-6

Date Collected: 05/01/13 09:30
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 83.6

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	☼	05/06/13 08:14	05/07/13 14:36	1
Acenaphthylene	**10**	**J**	48	6.0	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Anthracene	**15**		10	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Benzo[a]anthracene	**66**		9.6	4.7	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Benzo[a]pyrene	**48**		12	6.2	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Benzo[b]fluoranthene	**80**		15	7.3	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Benzo[g,h,i]perylene	**39**		24	5.3	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Benzo[k]fluoranthene	**30**		9.6	4.3	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Chrysene	**64**		11	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Dibenz(a,h)anthracene	**12**	**J**	24	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Fluoranthene	**62**		24	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Fluorene	**6.7**	**J**	24	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Indeno[1,2,3-cd]pyrene	**34**		24	8.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
1-Methylnaphthalene	**23**	**J**	48	5.3	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
2-Methylnaphthalene	**33**	**J**	48	8.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Naphthalene	**48**		48	5.3	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Phenanthrene	**59**		9.6	4.7	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Pyrene	**56**		24	4.4	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*30 - 130*	*05/06/13 08:14*	*05/07/13 14:36*	*1*

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

TestAmerica Job ID: 680-89985-1
SDG: 68089985-1

Client Sample ID: HP0334A-CS

Lab Sample ID: 680-89985-7
Date Collected: 05/01/13 08:50
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	25	J	120	25	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Acenaphthylene	40	J	50	6.2	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Anthracene	120		10	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Benzo[a]anthracene	320		10	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Benzo[a]pyrene	260		13	6.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Benzo[b]fluoranthene	400		15	7.6	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Benzo[g,h,i]perylene	230		25	5.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Benzo[k]fluoranthene	150		10	4.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Chrysene	280		11	5.6	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Dibenz(a,h)anthracene	76		25	5.1	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Fluoranthene	550		25	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Fluorene	28		25	5.1	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Indeno[1,2,3-cd]pyrene	210		25	8.8	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
1-Methylnaphthalene	69		50	5.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
2-Methylnaphthalene	88		50	8.8	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Naphthalene	92		50	5.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Phenanthrene	450		10	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Pyrene	450		25	4.6	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*30 - 130*	*05/06/13 08:14*	*05/07/13 14:51*	*1*

Client Sample ID: CV1114A-CS

Lab Sample ID: 680-89985-8
Date Collected: 05/01/13 13:25
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	190		110	22	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
Acenaphthylene	110		45	5.6	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
Anthracene	810		9.4	4.7	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
Benzo[a]anthracene	3400		9.0	4.4	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
Benzo[a]pyrene	2500		12	5.8	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
Benzo[g,h,i]perylene	1600		22	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
Benzo[k]fluoranthene	1600		9.0	4.0	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
Chrysene	2900		10	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
Dibenz(a,h)anthracene	690		22	4.6	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
Fluorene	130		22	4.6	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
Indeno[1,2,3 cd]pyrene	1600		22	8.0	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
1-Methylnaphthalene	130		45	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
2-Methylnaphthalene	200		45	8.0	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
Naphthalene	170		45	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
Phenanthrene	3500		9.0	4.4	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*05/06/13 08:14*	*05/07/13 15:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	3100		55	27	ug/Kg	☼	05/06/13 08:14	05/09/13 12:41	4

Client Sample ID: CV1114A-CS

Lab Sample ID: 680-89985-8
Date Collected: 05/01/13 13:25
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	4500		90	18	ug/Kg	☼	05/06/13 08:14	05/09/13 12:41	4
Pyrene	3700		90	17	ug/Kg	☼	05/06/13 08:14	05/09/13 12:41	4

Client Sample ID: CV1114A-CSD

Lab Sample ID: 680-89985-9
Date Collected: 05/01/13 13:25
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 82.2

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	☼	05/06/13 08:14	05/07/13 15:22	1
Acenaphthylene	29	J	48	6.1	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
Anthracene	35		10	5.1	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
Benzo[a]anthracene	150		9.7	4.7	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
Benzo[a]pyrene	130		13	6.3	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
Benzo[b]fluoranthene	180		15	7.4	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
Benzo[g,h,i]perylene	110		24	5.3	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
Benzo[k]fluoranthene	100		9.7	4.4	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
Chrysene	160		11	5 4	ug/Kg	☼	05/06/13 08 14	05/07/13 15 22	1
Dibenz(a,h)anthracene	31		24	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
Fluoranthene	230		24	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
Fluorene	6.8	J	24	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
Indeno[1,2,3-cd]pyrene	100		24	8.6	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
1-Methylnaphthalene	56		48	5.3	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
2-Methylnaphthalene	78		48	8.6	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
Naphthalene	58		48	5.3	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
Phenanthrene	150		9.7	4.7	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
Pyrene	180		24	4.5	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*30 - 130*	*05/06/13 08:14*	*05/07/13 15:22*	*1*

Client Sample ID: CV1114B-CS

Lab Sample ID: 680-89985-10
Date Collected: 05/01/13 13:35
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 81.6

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	☼	05/06/13 08:14	05/07/13 15:37	1
Acenaphthylene	42	J	49	6.2	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Anthracene	69		10	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Benzo[a]anthracene	200		9.9	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Benzo[a]pyrene	180		13	6.4	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Benzo[b]fluoranthene	250		15	7.5	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Benzo[g,h,i]perylene	120		25	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Benzo[k]fluoranthene	130		9.9	4.4	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Chrysene	220		11	5.6	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Dibenz(a,h)anthracene	43		25	5.1	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Fluoranthene	370		25	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Fluorene	13	J	25	5.1	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Indeno[1,2,3-cd]pyrene	120		25	8.8	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1

Client Sample ID: CV1114B-CS

Lab Sample ID: 680-89985-10
Date Collected: 05/01/13 13:35
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	57		49	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
2-Methylnaphthalene	71		49	8.8	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Naphthalene	50		49	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Phenanthrene	230		9.9	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Pyrene	260		25	4.6	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*05/06/13 08:14*	*05/07/13 15:37*	*1*

Client Sample ID: CV1166A-CS

Lab Sample ID: 680-89985-11
Date Collected: 05/01/13 12:45
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Acenaphthylene	15	J	51	6.4	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Anthracene	27		11	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Benzo[a]anthracene	97		10	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Benzo[a]pyrene	68		13	6.7	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Benzo[b]fluoranthene	110		16	7.9	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Benzo[g,h,i]perylene	49		26	5.7	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Benzo[k]fluoranthene	52		10	4.6	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Chrysene	98		12	5.8	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Dibenz(a,h)anthracene	13	J	26	5.3	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Fluoranthene	130		26	5.1	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Fluorene	14	J	26	5.3	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Indeno[1,2,3-cd]pyrene	44		26	9.1	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
1-Methylnaphthalene	41	J	51	5.7	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
2-Methylnaphthalene	57		51	9.1	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Naphthalene	54		51	5.7	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Phenanthrene	100		10	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Pyrene	91		26	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*30 - 130*	*05/06/13 08:14*	*05/07/13 15:52*	*1*

Client Sample ID: CV1166B-CS

Lab Sample ID: 680-89985-12
Date Collected: 05/01/13 12:50
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	91	J	130	26	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Acenaphthylene	43	J	51	6.4	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Anthracene	190		11	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Benzo[a]anthracene	590		10	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Benzo[a]pyrene	460		13	6.6	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Benzo[b]fluoranthene	710		16	7.8	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Benzo[g,h,i]perylene	240		26	5.6	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1

Client Sample ID: CV1166B-CS

Lab Sample ID: 680-89985-12

Date Collected: 05/01/13 12:50
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	220		10	4.6	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Chrysene	470		11	5.7	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Dibenz(a,h)anthracene	85		26	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Fluoranthene	970		26	5.1	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Fluorene	68		26	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Indeno[1,2,3-cd]pyrene	270		26	9.1	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
1-Methylnaphthalene	110		51	5.6	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
2-Methylnaphthalene	130		51	9.1	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Naphthalene	110		51	5.6	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Phenanthrene	700		10	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Pyrene	640		26	4.7	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*30 - 130*	*05/06/13 08:14*	*05/07/13 16:07*	*1*

Client Sample ID: CV1166B-CSD

Lab Sample ID: 680-89985-13

Date Collected: 05/01/13 12:50
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 80.0

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	25	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Acenaphthylene	32	J	49	6.1	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Anthracene	54		10	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Benzo[a]anthracene	180		9.8	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Benzo[a]pyrene	150		13	6.4	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Benzo[b]fluoranthene	250		15	7.5	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Benzo[g,h,i]perylene	95		25	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Benzo[k]fluoranthene	95		9.8	4.4	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Chrysene	200		11	5.5	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Dibenz(a,h)anthracene	33		25	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Fluoranthene	250		25	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Fluorene	12	J	25	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Indeno[1,2,3-cd]pyrene	82		25	8.7	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
1-Methylnaphthalene	90		49	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
2-Methylnaphthalene	120		49	8.7	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Naphthalene	88		49	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Phenanthrene	190		9.8	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Pyrene	190		25	4.5	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*05/06/13 08:14*	*05/07/13 16:22*	*1*

Client Sample ID: CV1177A-CS

Lab Sample ID: 680-89985-14

Date Collected: 05/01/13 14:00
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1

Client Sample ID: CV1177A-CS

Lab Sample ID: 680-89985-14

Date Collected: 05/01/13 14:00
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	60		48	6.0	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Anthracene	56		10	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Benzo[a]anthracene	250		9.6	4.7	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Benzo[a]pyrene	210		12	6.2	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Benzo[b]fluoranthene	310		15	7.3	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Benzo[g,h,i]perylene	120		24	5.3	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Benzo[k]fluoranthene	130		9.6	4.3	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Chrysene	280		11	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Dibenz(a,h)anthracene	34		24	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Fluoranthene	410		24	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Fluorene	18	J	24	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Indeno[1,2,3-cd]pyrene	110		24	8.5	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
1-Methylnaphthalene	75		48	5.3	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
2-Methylnaphthalene	100		48	8.5	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Naphthalene	70		48	5.3	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Phenanthrene	210		9.6	4.7	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Pyrene	310		24	4.4	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*05/06/13 08:14*	*05/07/13 16:37*	*1*

Client Sample ID: CV1177B-CS

Lab Sample ID: 680-89985-15

Date Collected: 05/01/13 14:10
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 81.9

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	☼	05/06/13 08:14	05/07/13 16:52	1
Acenaphthylene	45	J	47	5.9	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Anthracene	130		10	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Benzo[a]anthracene	320		9.5	4.6	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Benzo[a]pyrene	250		12	6.2	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Benzo[b]fluoranthene	380		14	7.2	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Benzo[g,h,i]perylene	140		24	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Benzo[k]fluoranthene	170		9.5	4.3	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Chrysene	310		11	5.3	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Dibenz(a,h)anthracene	51		24	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Fluoranthene	510		24	4.7	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Fluorene	25		24	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Indeno[1,2,3-cd]pyrene	140		24	8.4	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
1-Methylnaphthalene	310		47	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
2-Methylnaphthalene	570		47	8.4	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Naphthalene	270		47	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Phenanthrene	380		9.5	4.6	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Pyrene	350		24	4.4	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*05/06/13 08:14*	*05/07/13 16:52*	*1*

Client Sample ID: CV1006A-CS

Lab Sample ID: 680-89985-16

Date Collected: 05/02/13 10:00
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 79.9

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	☼	05/06/13 08:14	05/07/13 17:07	1
Acenaphthylene	**180**		49	6.1	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Anthracene	**190**		10	5.1	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Benzo[a]anthracene	**240**		9.7	4.7	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Benzo[a]pyrene	**190**		13	6.3	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Benzo[b]fluoranthene	**310**		15	7.4	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Benzo[g,h,i]perylene	**190**		24	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Benzo[k]fluoranthene	**120**		9.7	4.4	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Chrysene	**250**		11	5.5	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Dibenz(a,h)anthracene	**50**		24	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Fluoranthene	**400**		24	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Fluorene	**24**		24	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Indeno[1,2,3-cd]pyrene	**140**		24	8.6	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
1-Methylnaphthalene	**82**		49	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
2-Methylnaphthalene	**93**		49	8.6	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Naphthalene	**64**		49	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Phenanthrene	**270**		9.7	4.7	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Pyrene	**290**		24	4.5	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*49*		*30 - 130*	*05/06/13 08:14*	*05/07/13 17:07*	*1*

Client Sample ID: CV1006B-CS

Lab Sample ID: 680-89985-17

Date Collected: 05/02/13 10:10
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 79.1

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	☼	05/06/13 08:14	05/07/13 17:22	1
Acenaphthylene	**55**		49	6.2	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Anthracene	**85**		10	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Benzo[a]anthracene	**180**		9.9	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Benzo[a]pyrene	**140**		13	6.4	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Benzo[b]fluoranthene	**250**		15	7.5	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Benzo[g,h,i]perylene	**75**		25	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Benzo[k]fluoranthene	**88**		9.9	4.4	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Chrysene	**170**		11	5.6	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Dibenz(a,h)anthracene	**26**		25	5.1	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Fluoranthene	**240**		25	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Fluorene	**16**	**J**	25	5.1	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Indeno[1,2,3-cd]pyrene	**83**		25	8.8	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
1-Methylnaphthalene	**64**		49	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
2-Methylnaphthalene	**86**		49	8.8	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Naphthalene	**72**		49	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Phenanthrene	**180**		9.9	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Pyrene	**190**		25	4.6	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*30 - 130*	*05/06/13 08:14*	*05/07/13 17:22*	*1*

Client Sample ID: CV1165A-CS

Lab Sample ID: 680-89985-18

Date Collected: 05/02/13 09:20
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 82.4

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	24	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Acenaphthylene	**62**		49	6.1	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Anthracene	**110**		10	5.1	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Benzo[a]anthracene	**91**		9.7	4.7	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Benzo[a]pyrene	**86**		13	6.3	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Benzo[b]fluoranthene	**180**		15	7.4	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Benzo[g,h,i]perylene	**58**		24	5.3	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Benzo[k]fluoranthene	**85**		9.7	4.4	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Chrysene	**200**		11	5.5	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Dibenz(a,h)anthracene	**18**	**J**	24	5.0	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Fluoranthene	**340**		24	4.9	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Fluorene	**17**	**J**	24	5.0	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Indeno[1,2,3-cd]pyrene	**61**		24	8.6	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
1-Methylnaphthalene	**72**		49	5.3	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
2-Methylnaphthalene	**71**		49	8.6	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Naphthalene	**49**		49	5.3	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Phenanthrene	**490**		9.7	4.7	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Pyrene	**300**		24	4.5	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*30 - 130*	*05/08/13 11:30*	*05/09/13 14:57*	*1*

Client Sample ID: CV1165B-CS

Lab Sample ID: 680-89985-19

Date Collected: 05/02/13 09:30
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Acenaphthylene	52	U	52	6.5	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Anthracene	**12**		11	5.4	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Benzo[a]anthracene	10	U	10	5.0	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Benzo[a]pyrene	**33**		13	6.7	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Benzo[b]fluoranthene	**65**		16	7.9	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Benzo[g,h,i]perylene	**27**		26	5.7	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Benzo[k]fluoranthene	**22**		10	4.6	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Chrysene	**62**		12	5.8	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Dibenz(a,h)an hracene	26	U	26	5.3	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Fluoranthene	**58**		26	5.2	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Fluorene	**8.5**	**J**	26	5.3	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Indeno[1,2,3-cd]pyrene	**24**	**J**	26	9.2	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
1-Methylnaphthalene	**34**	**J**	52	5.7	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
2-Methylnaphthalene	**38**	**J**	52	9.2	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Naphthalene	**39**	**J**	52	5.7	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Phenanthrene	**66**		10	5.0	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Pyrene	**50**		26	4.8	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*47*		*30 - 130*	*05/08/13 11:30*	*05/09/13 15:12*	*1*

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

TestAmerica Job ID: 680-89985-1
SDG: 68089985-1

Client Sample ID: CV1165B-CSD
Date Collected: 05/02/13 09:30
Date Received: 05/03/13 11:15

Lab Sample ID: 680-89985-20
Matrix: Solid
Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Acenaphthylene	200	U	200	25	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Anthracene	**25**	**J**	42	21	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Benzo[a]anthracene	**120**		40	20	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Benzo[a]pyrene	**51**	**J**	52	26	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Benzo[b]fluoranthene	**100**		62	31	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Benzo[g,h,i]perylene	**69**	**J**	100	22	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Benzo[k]fluoranthene	**32**	**J**	40	18	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Chrysene	**94**		45	23	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Dibenz(a,h)anthracene	**22**	**J**	100	21	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Fluoranthene	**86**	**J**	100	20	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Fluorene	100	U	100	21	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Indeno[1,2,3-cd]pyrene	**51**	**J**	100	36	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
1-Methylnaphthalene	**52**	**J**	200	22	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
2-Methylnaphthalene	**72**	**J**	200	36	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Naphthalene	**66**	**J**	200	22	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Phenanthrene	**120**		40	20	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Pyrene	**88**	**J**	100	19	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*30 - 130*	*05/08/13 11:30*	*05/09/13 15:27*	*4*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-89985-1

SDG Number: 68089985-1

Job Description: 35th Avenue Superfund Site

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

Attention: Ms. Limari F Krebs

Approved for release.
Bernard Kirkland
Project Manager I
5/14/2013 5:02 PM

Designee for
Lisa Harvey, Project Manager II
5102 LaRoche Avenue, Savannah, GA, 31404
(912)354-7858 e.3221
lisa.harvey@testamericainc.com
05/14/2013

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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: 680-89985-1

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

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

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

RECEIPT

The samples were received on 05/03/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 4.4º C, 5.2º C and 5.6º C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0725A-CS (680-89985-1), CV1067A-CS (680-89985-2), CV1067B-CS (680-89985-3), HP0333A-CS (680-89985-4), HP0333A-CSD (680-89985-5), HP0333B-CS (680-89985-6), HP0334A-CS (680-89985-7), CV1114A-CS (680-89985-8), CV1114A-CSD (680-89985-9), CV1114B-CS (680-89985-10), CV1166A-CS (680-89985-11), CV1166B-CS (680-89985-12), CV1166B-CSD (680-89985-13), CV1177A-CS (680-89985-14), CV1177B-CS (680-89985-15), CV1006A-CS (680-89985-16), CV1006B-CS (680-89985-17), CV1165A-CS (680-89985-18), CV1165B-CS (680-89985-19) and CV1165B-CSD (680-89985-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 05/06/2013 and 05/08/2013 and analyzed on 05/07/2013 and 05/09/2013.

Samples CV1114A-CS (680-89985-8)[4X] and CV1165B-CSD (680-89985-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MSD of sample CV1067B-CSMSD (680-89985-3) in batch 660-137156. Several analytes exceeded the rpd limit.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-89985-22 in batch 660-137283. Fluoranthene and Pyrene exceeded the rpd limit.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89985-1
Sdg Number: 68089985-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-89985-1	CV0725A-CS	Solid	05/01/2013 1000	05/03/2013 1115
680-89985-2	CV1067A-CS	Solid	05/01/2013 1040	05/03/2013 1115
680-89985-3	CV1067B-CS	Solid	05/01/2013 1050	05/03/2013 1115
680-89985-3MS	CV1067B-CS	Solid	05/01/2013 1050	05/03/2013 1115
680-89985-3MSD	CV1067B-CS	Solid	05/01/2013 1050	05/03/2013 1115
680-89985-4	HP0333A-CS	Solid	05/01/2013 0920	05/03/2013 1115
680-89985-5	HP0333A-CSD	Solid	05/01/2013 0920	05/03/2013 1115
680-89985-6	HP0333B-CS	Solid	05/01/2013 0930	05/03/2013 1115
680-89985-7	HP0334A-CS	Solid	05/01/2013 0850	05/03/2013 1115
680-89985-8	CV1114A-CS	Solid	05/01/2013 1325	05/03/2013 1115
680-89985-9	CV1114A-CSD	Solid	05/01/2013 1325	05/03/2013 1115
680-89985-10	CV1114B-CS	Solid	05/01/2013 1335	05/03/2013 1115
680-89985-11	CV1166A-CS	Solid	05/01/2013 1245	05/03/2013 1115
680-89985-12	CV1166B-CS	Solid	05/01/2013 1250	05/03/2013 1115
680-89985-13	CV1166B-CSD	Solid	05/01/2013 1250	05/03/2013 1115
680-89985-14	CV1177A-CS	Solid	05/01/2013 1400	05/03/2013 1115
680-89985-15	CV1177B-CS	Solid	05/01/2013 1410	05/03/2013 1115
680-89985-16	CV1006A-CS	Solid	05/02/2013 1000	05/03/2013 1115
680-89985-17	CV1006B-CS	Solid	05/02/2013 1010	05/03/2013 1115
680-89985-18	CV1165A-CS	Solid	05/02/2013 0920	05/03/2013 1115
680-89985-19	CV1165B-CS	Solid	05/02/2013 0930	05/03/2013 1115
680-89985-20	CV1165B-CSD	Solid	05/02/2013 0930	05/03/2013 1115

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89985-1
Sdg Number: 68089985-1

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: 680-89985-1
Sdg Number: 68089985-1

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: 680-89985-1
Sdg Number: 68089985-1

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
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	F	RPD of the MS and MSD exceeds the control limits

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89985-1
Sdg Number: 68089985-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-137132					
LCS 660-137132/2-A	Lab Control Sample	T	Solid	3546	
MB 660-137132/1-A	Method Blank	T	Solid	3546	
680-89985-1	CV0725A-CS	T	Solid	3546	
680-89985-2	CV1067A-CS	T	Solid	3546	
680-89985-3	CV1067B-CS	T	Solid	3546	
680-89985-3MS	Matrix Spike	T	Solid	3546	
680-89985-3MSD	Matrix Spike Duplicate	T	Solid	3546	
680-89985-4	HP0333A-CS	T	Solid	3546	
680-89985-5	HP0333A-CSD	T	Solid	3546	
680-89985-6	HP0333B-CS	T	Solid	3546	
680-89985-7	HP0334A-CS	T	Solid	3546	
680-89985-8	CV1114A-CS	T	Solid	3546	
680-89985-8DL	CV1114A-CS	T	Solid	3546	
680-89985-9	CV1114A-CSD	T	Solid	3546	
680-89985-10	CV1114B-CS	T	Solid	3546	
680-89985-11	CV1166A-CS	T	Solid	3546	
680-89985-12	CV1166B-CS	T	Solid	3546	
680-89985-13	CV1166B-CSD	T	Solid	3546	
680-89985-14	CV1177A-CS	T	Solid	3546	
680-89985-15	CV1177B-CS	T	Solid	3546	
680-89985-16	CV1006A-CS	T	Solid	3546	
680-89985-17	CV1006B-CS	T	Solid	3546	
Analysis Batch:660-137156					
LCS 660-137132/2-A	Lab Control Sample	T	Solid	8270C LL	660-137132
MB 660-137132/1-A	Method Blank	T	Solid	8270C LL	660-137132
680-89985-3MS	Matrix Spike	T	Solid	8270C LL	660-137132
680-89985-3MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-137132

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89985-1
Sdg Number: 68089985-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-137194					
680-89985-1	CV0725A-CS	T	Solid	8270C LL	660-137132
680-89985-2	CV1067A-CS	T	Solid	8270C LL	660-137132
680-89985-3	CV1067B-CS	T	Solid	8270C LL	660-137132
680-89985-4	HP0333A-CS	T	Solid	8270C LL	660-137132
680-89985-5	HP0333A-CSD	T	Solid	8270C LL	660-137132
680-89985-6	HP0333B-CS	T	Solid	8270C LL	660-137132
680-89985-7	HP0334A-CS	T	Solid	8270C LL	660-137132
680-89985-8	CV1114A-CS	T	Solid	8270C LL	660-137132
680-89985-9	CV1114A-CSD	T	Solid	8270C LL	660-137132
680-89985-10	CV1114B-CS	T	Solid	8270C LL	660-137132
680-89985-11	CV1166A-CS	T	Solid	8270C LL	660-137132
680-89985-12	CV1166B-CS	T	Solid	8270C LL	660-137132
680-89985-13	CV1166B-CSD	T	Solid	8270C LL	660-137132
680-89985-14	CV1177A-CS	T	Solid	8270C LL	660-137132
680-89985-15	CV1177B-CS	T	Solid	8270C LL	660-137132
680-89985-16	CV1006A-CS	T	Solid	8270C LL	660-137132
680-89985-17	CV1006B-CS	T	Solid	8270C LL	660-137132
Prep Batch: 660-137234					
LCS 660-137234/2-A	Lab Control Sample	T	Solid	3546	
MB 660-137234/1-A	Method Blank	T	Solid	3546	
680-89985-18	CV1165A-CS	T	Solid	3546	
680-89985-19	CV1165B-CS	T	Solid	3546	
680-89985-20	CV1165B-CSD	T	Solid	3546	
680-89985-A-22-B MS	Matrix Spike	T	Solid	3546	
680-89985-A-22-C MSD	Matrix Spike Duplicate	T	Solid	3546	
Analysis Batch:660-137283					
680-89985-8DL	CV1114A-CS	T	Solid	8270C LL	660-137132
680-89985-18	CV1165A-CS	T	Solid	8270C LL	660-137234
680-89985-19	CV1165B-CS	T	Solid	8270C LL	660-137234
680-89985-20	CV1165B-CSD	T	Solid	8270C LL	660-137234
680-89985-A-22-B MS	Matrix Spike	T	Solid	8270C LL	660-137234
680-89985-A-22-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-137234
Analysis Batch:660-137292					
LCS 660-137234/2-A	Lab Control Sample	T	Solid	8270C LL	660-137234
MB 660-137234/1-A	Method Blank	T	Solid	8270C LL	660-137234

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89985-1
Sdg Number: 68089985-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-137139					
680-89985-1	CV0725A-CS	T	Solid	Moisture	
680-89985-2	CV1067A-CS	T	Solid	Moisture	
680-89985-3	CV1067B-CS	T	Solid	Moisture	
680-89985-3MS	Matrix Spike	T	Solid	Moisture	
680-89985-3MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-89985-4	HP0333A-CS	T	Solid	Moisture	
680-89985-5	HP0333A-CSD	T	Solid	Moisture	
680-89985-6	HP0333B-CS	T	Solid	Moisture	
680-89985-7	HP0334A-CS	T	Solid	Moisture	
680-89985-8	CV1114A-CS	T	Solid	Moisture	
680-89985-9	CV1114A-CSD	T	Solid	Moisture	
680-89985-10	CV1114B-CS	T	Solid	Moisture	
680-89985-11	CV1166A-CS	T	Solid	Moisture	
680-89985-12	CV1166B-CS	T	Solid	Moisture	
680-89985-13	CV1166B-CSD	T	Solid	Moisture	
680-89985-14	CV1177A-CS	T	Solid	Moisture	
680-89985-15	CV1177B-CS	T	Solid	Moisture	
680-89985-16	CV1006A-CS	T	Solid	Moisture	
680-89985-17	CV1006B-CS	T	Solid	Moisture	
680-89985-18	CV1165A-CS	T	Solid	Moisture	
680-89985-19	CV1165B-CS	T	Solid	Moisture	
680-89985-20	CV1165B-CSD	T	Solid	Moisture	
680-89985-A-22 MS	Matrix Spike	T	Solid	Moisture	
680-89985-A-22 MSD	Matrix Spike Duplicate	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

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: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	04/26/13 12:57
Indeno[1,2,3-cd]pyrene	8.42	Split Peak	cantins	04/26/13 12:51
Benzo[g,h,i]perylene	8.63	Baseline Event	cantins	04/26/13 12:51

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

Date Analyzed: 04/26/13 10:18 Lab File ID: 1AD26004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	04/26/13 12:51
Indeno[1,2,3-cd]pyrene	8.41	Split Peak	cantins	04/26/13 12:52
Dibenz(a,h)anthracene	8.44	Baseline Event	cantins	04/26/13 12:52
Benzo[g,h,i]perylene	8.62	Baseline Event	cantins	04/26/13 12:52

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

Date Analyzed: 04/26/13 10:33 Lab File ID: 1AD26005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	8.45	Baseline Event	cantins	04/26/13 12:53
Benzo[g,h,i]perylene	8.63	Baseline Event	cantins	04/26/13 12:53

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

Date Analyzed: 04/26/13 10:48 Lab File ID: 1AD26006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	8.45	Baseline Event	cantins	04/26/13 12:54
Benzo[g,h,i]perylene	8.64	Baseline Event	cantins	04/26/13 12:54

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Instrument ID: BSMA5973 Analysis Batch Number: 136892

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

Date Analyzed: 04/26/13 11:03 Lab File ID: 1AD26007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chrysene	6.60	Baseline Event	cantins	04/26/13 12:58

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

Date Analyzed: 04/26/13 11:19 Lab File ID: 1AD26008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chrysene	6.60	Baseline Event	cantins	04/26/13 12:56

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

Date Analyzed: 04/26/13 11:34 Lab File ID: 1AD26009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chrysene	6.61	Baseline Event	cantins	04/26/13 12:55
Benzo[k]fluoranthene	7.42	Baseline Event	cantins	04/26/13 12:55

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

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: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Phenanthrene	4.53	Baseline Event	cantins	05/06/13 12:53
Fluoranthene	5.39	Baseline Event	cantins	05/06/13 12:53
Benzo[k]fluoranthene	7.35	Baseline Event	cantins	05/06/13 12:54
Benzo[g,h,i]perylene	8.58	Baseline Event	cantins	05/06/13 12:54

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

Date Analyzed: 05/06/13 10:56 Lab File ID: 1AE06005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	4.70	Baseline Event	cantins	05/06/13 12:55
Chrysene	6.54	Baseline Event	cantins	05/06/13 12:55
Benzo[k]fluoranthene	7.36	Baseline Event	cantins	05/06/13 12:55
Indeno[1,2,3-cd]pyrene	8.36	Split Peak	cantins	05/06/13 12:56
Dibenz(a,h)anthracene	8.38	Baseline Event	cantins	05/06/13 12:55
Benzo[g,h,i]perylene	8.56	Baseline Event	cantins	05/06/13 12:55

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

Date Analyzed: 05/06/13 11:11 Lab File ID: 1AE06006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	4.70	Baseline Event	cantins	05/06/13 12:56
Indeno[1,2,3-cd]pyrene	8.36	Split Peak	cantins	05/06/13 12:57
Dibenz(a,h)anthracene	8.39	Baseline Event	cantins	05/06/13 12:57
Benzo[g,h,i]perylene	8.57	Baseline Event	cantins	05/06/13 12:57

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Instrument ID: BSMA5973 Analysis Batch Number: 137156

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

Date Analyzed: 05/06/13 11:26 Lab File ID: 1AE06007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.36	Split Peak	cantins	05/06/13 12:58
Benzo[g,h,i]perylene	8.58	Baseline Event	cantins	05/06/13 12:58

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

Date Analyzed: 05/06/13 11:56 Lab File ID: 1AE06009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Anthracene	4.57	Baseline Event	cantins	05/06/13 12:59

Lab Sample ID: LCS 660-137132/2-A Client Sample ID:

Date Analyzed: 05/06/13 15:24 Lab File ID: 1AE06019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.38	Split Peak	cantins	05/06/13 15:52

Lab Sample ID: 680-89985-3 MS Client Sample ID: CV1067B-CS MS

Date Analyzed: 05/06/13 16:56 Lab File ID: 1AE06025.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.40	Split Peak	cantins	05/07/13 13:56

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Instrument ID: BSMA5973 Analysis Batch Number: 137156

Lab Sample ID: 680-89985-3 MSD Client Sample ID: CV1067B-CS MSD

Date Analyzed: 05/06/13 17:11 Lab File ID: 1AE06026.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.37	Split Peak	cantins	05/07/13 13:57
Benzo[k]fluoranthene	7.38	Baseline Event	cantins	05/07/13 13:57
Indeno[1,2,3-cd]pyrene	8.40	Split Peak	cantins	05/07/13 13:57

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Instrument ID: BSMA5973 Analysis Batch Number: 137194

Lab Sample ID: CCVIS 660-137194/3 Client Sample ID:

Date Analyzed: 05/07/13 12:34 Lab File ID: 1AE07003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.39	Split Peak	cantins	05/07/13 13:04
Benzo[g,h,i]perylene	8.60	Baseline Event	cantins	05/07/13 13:04

Lab Sample ID: 680-89985-1 Client Sample ID: CV0725A-CS

Date Analyzed: 05/07/13 13:21 Lab File ID: 1AE07005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.35	Split Peak	cantins	05/09/13 11:05
Benzo[k]fluoranthene	7.36	Baseline Event	cantins	05/09/13 11:05
Indeno[1,2,3-cd]pyrene	8.39	Split Peak	cantins	05/09/13 11:05
Benzo[g,h,i]perylene	8.61	Baseline Event	cantins	05/09/13 11:07

Lab Sample ID: 680-89985-2 Client Sample ID: CV1067A-CS

Date Analyzed: 05/07/13 13:36 Lab File ID: 1AE07006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	2.56	Baseline Event	cantins	05/09/13 11:06
Benzo[b]fluoranthene	7.36	Split Peak	cantins	05/09/13 11:06
Benzo[k]fluoranthene	7.37	Baseline Event	cantins	05/09/13 11:06
Indeno[1,2,3-cd]pyrene	8.39	Split Peak	cantins	05/09/13 11:07
Benzo[g,h,i]perylene	8.62	Baseline Event	cantins	05/09/13 11:06

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Instrument ID: BSMA5973 Analysis Batch Number: 137194

Lab Sample ID: 680-89985-4 Client Sample ID: HP0333A-CS

Date Analyzed: 05/07/13 13:51 Lab File ID: 1AE07007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	2.56	Baseline Event	cantins	05/09/13 11:50
Benzo[b]fluoranthene	7.36	Split Peak	cantins	05/09/13 11:50
Benzo[k]fluoranthene	7.37	Baseline Event	cantins	05/09/13 11:50
Indeno[1,2,3-cd]pyrene	8.40	Split Peak	cantins	05/09/13 11:50

Lab Sample ID: 680-89985-5 Client Sample ID: HP0333A-CSD

Date Analyzed: 05/07/13 14:06 Lab File ID: 1AE07008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.36	Split Peak	cantins	05/09/13 11:51
Benzo[k]fluoranthene	7.37	Baseline Event	cantins	05/09/13 11:51
Indeno[1,2,3-cd]pyrene	8.40	Split Peak	cantins	05/09/13 11:52

Lab Sample ID: 680-89985-3 Client Sample ID: CV1067B-CS

Date Analyzed: 05/07/13 14:21 Lab File ID: 1AE07009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.37	Split Peak	cantins	05/07/13 14:36
Benzo[k]fluoranthene	7.38	Baseline Event	cantins	05/07/13 14:36
Indeno[1,2,3-cd]pyrene	8.42	Split Peak	cantins	05/07/13 14:37
Benzo[g,h,i]perylene	8.64	Baseline Event	cantins	05/07/13 14:37

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Instrument ID: BSMA5973 Analysis Batch Number: 137194

Lab Sample ID: 680-89985-6 Client Sample ID: HP0333B-CS

Date Analyzed: 05/07/13 14:36 Lab File ID: 1AE07010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.36	Split Peak	cantins	05/09/13 11:52
Benzo[k]fluoranthene	7.38	Baseline Event	cantins	05/09/13 11:52
Indeno[1,2,3-cd]pyrene	8.40	Split Peak	cantins	05/09/13 11:53
Benzo[g,h,i]perylene	8.62	Baseline Event	cantins	05/09/13 11:53

Lab Sample ID: 680-89985-7 Client Sample ID: HP0334A-CS

Date Analyzed: 05/07/13 14:51 Lab File ID: 1AE07011.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.37	Split Peak	cantins	05/09/13 11:54
Benzo[k]fluoranthene	7.38	Baseline Event	cantins	05/09/13 11:54
Indeno[1,2,3-cd]pyrene	8.41	Split Peak	cantins	05/09/13 11:55
Benzo[g,h,i]perylene	8.63	Baseline Event	cantins	05/09/13 11:55

Lab Sample ID: 680-89985-8 Client Sample ID: CV1114A-CS

Date Analyzed: 05/07/13 15:06 Lab File ID: 1AE07012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	7.42	Baseline Event	cantins	05/09/13 11:57
Indeno[1,2,3-cd]pyrene	8.49	Split Peak	cantins	05/09/13 11:58

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Instrument ID: BSMA5973 Analysis Batch Number: 137194

Lab Sample ID: 680-89985-9 Client Sample ID: CV1114A-CSD

Date Analyzed: 05/07/13 15:22 Lab File ID: 1AE07013.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.37	Split Peak	cantins	05/09/13 11:58
Benzo[k]fluoranthene	7.38	Baseline Event	cantins	05/09/13 11:59
Indeno[1,2,3-cd]pyrene	8.42	Split Peak	cantins	05/09/13 11:59

Lab Sample ID: 680-89985-10 Client Sample ID: CV1114B-CS

Date Analyzed: 05/07/13 15:37 Lab File ID: 1AE07014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.37	Split Peak	cantins	05/09/13 12:00
Benzo[k]fluoranthene	7.38	Baseline Event	cantins	05/09/13 12:00
Indeno[1,2,3-cd]pyrene	8.42	Split Peak	cantins	05/09/13 12:01

Lab Sample ID: 680-89985-11 Client Sample ID: CV1166A-CS

Date Analyzed: 05/07/13 15:52 Lab File ID: 1AE07015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.37	Split Peak	cantins	05/09/13 12:01
Benzo[k]fluoranthene	7.39	Baseline Event	cantins	05/09/13 12:01
Indeno[1,2,3-cd]pyrene	8.42	Split Peak	cantins	05/09/13 12:02

Lab Sample ID: 680-89985-12 Client Sample ID: CV1166B-CS

Date Analyzed: 05/07/13 16:07 Lab File ID: 1AE07016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.39	Split Peak	cantins	05/09/13 12:03
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	05/09/13 12:03
Indeno[1,2,3-cd]pyrene	8.44	Split Peak	cantins	05/09/13 12:04

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Instrument ID: BSMA5973 Analysis Batch Number: 137194

Lab Sample ID: 680-89985-13 Client Sample ID: CV1166B-CSD

Date Analyzed: 05/07/13 16:22 Lab File ID: 1AE07017.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.39	Split Peak	cantins	05/09/13 12:19
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	05/09/13 12:19
Indeno[1,2,3-cd]pyrene	8.44	Split Peak	cantins	05/09/13 12:19

Lab Sample ID: 680-89985-14 Client Sample ID: CV1177A-CS

Date Analyzed: 05/07/13 16:37 Lab File ID: 1AE07018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.38	Split Peak	cantins	05/09/13 12:20
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	05/09/13 12:20
Indeno[1,2,3-cd]pyrene	8.43	Split Peak	cantins	05/09/13 12:21

Lab Sample ID: 680-89985-15 Client Sample ID: CV1177B-CS

Date Analyzed: 05/07/13 16:52 Lab File ID: 1AE07019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.39	Split Peak	cantins	05/09/13 12:23
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	05/09/13 12:24
Indeno[1,2,3-cd]pyrene	8.45	Split Peak	cantins	05/09/13 12:24

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Instrument ID: BSMA5973 Analysis Batch Number: 137194

Lab Sample ID: 680-89985-16 Client Sample ID: CV1006A-CS

Date Analyzed: 05/07/13 17:07 Lab File ID: 1AE07020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	2.57	Baseline Event	cantins	05/09/13 12:25
Benzo[b]fluoranthene	7.39	Split Peak	cantins	05/09/13 12:25
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	05/09/13 12:26
Indeno[1,2,3-cd]pyrene	8.45	Split Peak	cantins	05/09/13 12:26

Lab Sample ID: 680-89985-17 Client Sample ID: CV1006B-CS

Date Analyzed: 05/07/13 17:22 Lab File ID: 1AE07021.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.39	Split Peak	cantins	05/09/13 12:37
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	05/09/13 12:37
Indeno[1,2,3-cd]pyrene	8.45	Split Peak	cantins	05/09/13 12:38

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Instrument ID: BSMA5973 Analysis Batch Number: 137283

Lab Sample ID: CCVIS 660-137283/4 Client Sample ID:

Date Analyzed: 05/09/13 10:56 Lab File ID: 1AE09004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	8.43	Baseline Event	cantins	05/09/13 11:08

Lab Sample ID: 680-89985-8 DL Client Sample ID: CV1114A-CS DL

Date Analyzed: 05/09/13 12:41 Lab File ID: 1AE09011.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.38	Split Peak	cantins	05/09/13 12:54

Lab Sample ID: 680-89985-18 Client Sample ID: CV1165A-CS

Date Analyzed: 05/09/13 14:57 Lab File ID: 1AE09020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.38	Split Peak	cantins	05/10/13 11:03
Benzo[k]fluoranthene	7.39	Baseline Event	cantins	05/10/13 11:03
Indeno[1,2,3-cd]pyrene	8.44	Split Peak	cantins	05/10/13 11:03

Lab Sample ID: 680-89985-19 Client Sample ID: CV1165B-CS

Date Analyzed: 05/09/13 15:12 Lab File ID: 1AE09021.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.38	Split Peak	cantins	05/10/13 11:04
Benzo[k]fluoranthene	7.39	Baseline Event	cantins	05/10/13 11:05
Indeno[1,2,3-cd]pyrene	8.44	Split Peak	cantins	05/10/13 11:05

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Instrument ID: BSMA5973 Analysis Batch Number: 137283

Lab Sample ID: 680-89985-20 Client Sample ID: CV1165B-CSD

Date Analyzed: 05/09/13 15:27 Lab File ID: 1AE09022.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.38	Split Peak	cantins	05/10/13 11:06
Benzo[k]fluoranthene	7.39	Baseline Event	cantins	05/10/13 11:07
Indeno[1,2,3-cd]pyrene	8.43	Split Peak	cantins	05/10/13 11:10
Dibenz(a,h)anthracene	8.45	Analyte Misidentified by the Data System	cantins	05/10/13 11:09
Benzo[g,h,i]perylene	8.65	Baseline Event	cantins	05/10/13 11:07

Lab Sample ID: 680-89985-A-22-B MS Client Sample ID:

Date Analyzed: 05/09/13 16:12 Lab File ID: 1AE09025.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.44	Split Peak	cantins	05/09/13 16:40

Lab Sample ID: 680-89985-A-22-C MSD Client Sample ID:

Date Analyzed: 05/09/13 16:28 Lab File ID: 1AE09026.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.44	Split Peak	cantins	05/10/13 11:18

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Instrument ID: BSMA5973 Analysis Batch Number: 137292

Lab Sample ID: CCVIS 660-137292/3 Client Sample ID:

Date Analyzed: 05/08/13 14:31 Lab File ID: 1AE08003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.40	Split Peak	cantins	05/08/13 14:47
Dibenz(a,h)anthracene	8.42	Baseline Event	cantins	05/08/13 14:47
Benzo[g,h,i]perylene	8.61	Baseline Event	cantins	05/08/13 14:47

Lab Sample ID: LCS 660-137234/2-A Client Sample ID:

Date Analyzed: 05/08/13 18:13 Lab File ID: 1AE08011.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.37	Split Peak	cantins	05/09/13 14:51
Dibenz(a,h)anthracene	8.40	Baseline Event	cantins	05/09/13 14:51
Benzo[g,h,i]perylene	8.59	Baseline Event	cantins	05/09/13 14:50

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.: 680-89985-1

SDG No.: 68089985-1

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0725A-CS	680-89985-1	66
CV1067A-CS	680-89985-2	61
CV1067B-CS	680-89985-3	47
HP0333A-CS	680-89985-4	61
HP0333A-CSD	680-89985-5	68
HP0333B-CS	680-89985-6	57
HP0334A-CS	680-89985-7	69
CV1114A-CS	680-89985-8	61
CV1114A-CSD	680-89985-9	67
CV1114B-CS	680-89985-10	61
CV1166A-CS	680-89985-11	57
CV1166B-CS	680-89985-12	54
CV1166B-CSD	680-89985-13	55
CV1177A-CS	680-89985-14	55
CV1177B-CS	680-89985-15	61
CV1006A-CS	680-89985-16	49
CV1006B-CS	680-89985-17	58
CV1165A-CS	680-89985-18	60
CV1165B-CS	680-89985-19	47
CV1165B-CSD	680-89985-20	54
	MB 660-137132/1-A	61
	MB 660-137234/1-A	70
	LCS 660-137132/2-A	62
	LCS 660-137234/2-A	86
	680-89985-A-22-B MS	71
CV1067B-CS MS	680-89985-3 MS	49
	680-89985-A-22-C MSD	68
CV1067B-CS MSD	680-89985-3 MSD	37

	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.: 680-89985-1

SDG No.: 68089985-1

Matrix: Solid Level: Low Lab File ID: 1AE06019.D

Lab ID: LCS 660-137132/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	670	373	56	39-130	
Acenaphthylene	670	430	64	38-130	
Anthracene	670	428	64	37-130	
Benzo[a]anthracene	670	444	66	40-130	
Benzo[a]pyrene	670	356	53	49-130	
Benzo[b]fluoranthene	670	380	57	37-130	
Benzo[g,h,i]perylene	670	508	76	32-130	
Benzo[k]fluoranthene	670	357	53	32-130	
Chrysene	670	380	57	41-130	
Dibenz(a,h)anthracene	670	502	75	27-130	
Fluoranthene	670	432	64	40-130	
Fluorene	670	445	66	40-130	
Indeno[1,2,3-cd]pyrene	670	467	70	30-130	
1-Methylnaphthalene	670	439	66	31-130	
2-Methylnaphthalene	670	435	65	33-130	
Naphthalene	670	396	59	36-130	
Phenanthrene	670	409	61	42-130	
Pyrene	670	447	67	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.: 680-89985-1

SDG No.: 68089985-1

Matrix: Solid Level: Low Lab File ID: 1AE08011.D

Lab ID: LCS 660-137234/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	668	523	78	39-130	
Acenaphthylene	668	560	84	38-130	
Anthracene	668	583	87	37-130	
Benzo[a]anthracene	668	573	86	40-130	
Benzo[a]pyrene	668	519	78	49-130	
Benzo[b]fluoranthene	668	523	78	37-130	
Benzo[g,h,i]perylene	668	533	80	32-130	
Benzo[k]fluoranthene	668	577	86	32-130	
Chrysene	668	556	83	41-130	
Dibenz(a,h)anthracene	668	560	84	27-130	
Fluoranthene	668	565	85	40-130	
Fluorene	668	560	84	40-130	
Indeno[1,2,3-cd]pyrene	668	509	76	30-130	
1-Methylnaphthalene	668	627	94	31-130	
2-Methylnaphthalene	668	617	92	33-130	
Naphthalene	668	537	80	36-130	
Phenanthrene	668	556	83	42-130	
Pyrene	668	571	85	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.: 680-89985-1

SDG No.: 68089985-1

Matrix: Solid Level: Low Lab File ID: 1AE09025.D

Lab ID: 680-89985-A-22-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	735	110 U	520	71	39-130	
Acenaphthylene	735	46	637	80	38-130	
Anthracene	735	120	757	87	37-130	
Benzo[a]anthracene	735	160	1050	121	40-130	
Benzo[a]pyrene	735	140	763	85	49-130	
Benzo[b]fluoranthene	735	260	1050	107	37-130	
Benzo[g,h,i]perylene	735	85	492	55	32-130	
Benzo[k]fluoranthene	735	85	789	96	32-130	
Chrysene	735	150	824	92	41-130	
Dibenz(a,h)anthracene	735	25	504	65	27-130	
Fluoranthene	735	230	1200	132	40-130	F
Fluorene	735	17 J	624	83	40-130	
Indeno[1,2,3-cd]pyrene	735	84	590	69	30-130	
1-Methylnaphthalene	735	27 J	637	83	31-130	
2-Methylnaphthalene	735	45	681	86	33-130	
Naphthalene	735	76	590	70	36-130	
Phenanthrene	735	150	969	111	42-130	
Pyrene	735	170	1020	115	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.: 680-89985-1

SDG No.: 68089985-1

Matrix: Solid Level: Low Lab File ID: 1AE06025.D

Lab ID: 680-89985-3 MS Client ID: CV1067B-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	896	130 U	477	53	39-130	
Acenaphthylene	896	50 J	544	55	38-130	
Anthracene	896	97	595	56	37-130	
Benzo[a]anthracene	896	220	795	64	40-130	
Benzo[a]pyrene	896	230	661	49	49-130	
Benzo[b]fluoranthene	896	450	963	57	37-130	
Benzo[g,h,i]perylene	896	200	743	60	32-130	
Benzo[k]fluoranthene	896	170	626	51	32-130	
Chrysene	896	410	913	56	41-130	
Dibenz(a,h)anthracene	896	54	628	64	27-130	
Fluoranthene	896	670	1250	64	40-130	
Fluorene	896	19 J	531	57	40-130	
Indeno[1,2,3-cd]pyrene	896	180	751	63	30-130	
1-Methylnaphthalene	896	140	722	65	31-130	
2-Methylnaphthalene	896	140	739	66	33-130	
Naphthalene	896	100	879	87	36-130	
Phenanthrene	896	580	1460	98	42-130	
Pyrene	896	420	1170	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 DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Matrix: Solid Level: Low Lab File ID: 1AE09026.D

Lab ID: 680-89985-A-22-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	736	489	66	6	40	39-130	
Acenaphthylene	736	591	74	7	40	38-130	
Anthracene	736	640	71	17	40	37-130	
Benzo[a]anthracene	736	718	75	38	40	40-130	
Benzo[a]pyrene	736	562	58	30	40	49-130	
Benzo[b]fluoranthene	736	797	73	27	40	37-130	
Benzo[g,h,i]perylene	736	380	40	26	40	32-130	
Benzo[k]fluoranthene	736	612	72	25	40	32-130	
Chrysene	736	692	74	17	40	41-130	
Dibenz(a,h)anthracene	736	431	55	16	40	27-130	
Fluoranthene	736	738	69	47	40	40-130	F
Fluorene	736	553	73	12	40	40-130	
Indeno[1,2,3-cd]pyrene	736	458	51	25	40	30-130	
1-Methylnaphthalene	736	557	72	13	40	31-130	
2-Methylnaphthalene	736	623	78	9	40	33-130	
Naphthalene	736	548	64	7	40	36-130	
Phenanthrene	736	671	70	36	40	42-130	
Pyrene	736	656	66	43	40	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 DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Matrix: Solid Level: Low Lab File ID: 1AE06026.D

Lab ID: 680-89985-3 MSD Client ID: CV1067B-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	896	364	41	27	40	39-130	
Acenaphthylene	896	520	52	5	40	38-130	
Anthracene	896	680	65	13	40	37-130	
Benzo[a]anthracene	896	1910	188	82	40	40-130	F
Benzo[a]pyrene	896	1180	107	57	40	49-130	F
Benzo[b]fluoranthene	896	2560	235	91	40	37-130	F
Benzo[g,h,i]perylene	896	940	82	23	40	32-130	
Benzo[k]fluoranthene	896	1390	137	76	40	32-130	F
Chrysene	896	2560	239	95	40	41-130	F
Dibenz(a,h)anthracene	896	664	68	6	40	27-130	
Fluoranthene	896	4900	471	119	40	40-130	E F
Fluorene	896	415	44	25	40	40-130	
Indeno[1,2,3-cd]pyrene	896	1030	94	31	40	30-130	
1-Methylnaphthalene	896	545	45	28	40	31-130	
2-Methylnaphthalene	896	584	49	23	40	33-130	
Naphthalene	896	476	42	60	40	36-130	F
Phenanthrene	896	1010	48	36	40	42-130	
Pyrene	896	3930	392	108	40	44-130	F

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.: 680-89985-1

SDG No.: 68089985-1

Lab File ID: 1AE06018.D Lab Sample ID: MB 660-137132/1-A

Matrix: Solid Date Extracted: 05/06/2013 08:14

Instrument ID: BSMA5973 Date Analyzed: 05/06/2013 15:08

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-137132/2-A	1AE06019.D	05/06/2013 15:24
CV1067B-CS MS	680-89985-3 MS	1AE06025.D	05/06/2013 16:56
CV1067B-CS MSD	680-89985-3 MSD	1AE06026.D	05/06/2013 17:11
CV0725A-CS	680-89985-1	1AE07005.D	05/07/2013 13:21
CV1067A-CS	680-89985-2	1AE07006.D	05/07/2013 13:36
HP0333A-CS	680-89985-4	1AE07007.D	05/07/2013 13:51
HP0333A-CSD	680-89985-5	1AE07008.D	05/07/2013 14:06
CV1067B-CS	680-89985-3	1AE07009.D	05/07/2013 14:21
HP0333B-CS	680-89985-6	1AE07010.D	05/07/2013 14:36
HP0334A-CS	680-89985-7	1AE07011.D	05/07/2013 14:51
CV1114A-CS	680-89985-8	1AE07012.D	05/07/2013 15:06
CV1114A-CSD	680-89985-9	1AE07013.D	05/07/2013 15:22
CV1114B-CS	680-89985-10	1AE07014.D	05/07/2013 15:37
CV1166A-CS	680-89985-11	1AE07015.D	05/07/2013 15:52
CV1166B-CS	680-89985-12	1AE07016.D	05/07/2013 16:07
CV1166B-CSD	680-89985-13	1AE07017.D	05/07/2013 16:22
CV1177A-CS	680-89985-14	1AE07018.D	05/07/2013 16:37
CV1177B-CS	680-89985-15	1AE07019.D	05/07/2013 16:52
CV1006A-CS	680-89985-16	1AE07020.D	05/07/2013 17:07
CV1006B-CS	680-89985-17	1AE07021.D	05/07/2013 17:22
CV1114A-CS DL	680-89985-8 DL	1AE09011.D	05/09/2013 12:41

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Lab File ID: 1AE08010.D Lab Sample ID: MB 660-137234/1-A

Matrix: Solid Date Extracted: 05/08/2013 11:30

Instrument ID: BSMA5973 Date Analyzed: 05/08/2013 17:58

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-137234/2-A	1AE08011.D	05/08/2013 18:13
CV1165A-CS	680-89985-18	1AE09020.D	05/09/2013 14:57
CV1165B-CS	680-89985-19	1AE09021.D	05/09/2013 15:12
CV1165B-CSD	680-89985-20	1AE09022.D	05/09/2013 15:27
	680-89985-A-22-B MS	1AE09025.D	05/09/2013 16:12
	680-89985-A-22-C MSD	1AE09026.D	05/09/2013 16:28

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

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

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

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

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

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
	MB 660-137132/1-A	1AE06018.D	05/06/2013	15:08
	LCS 660-137132/2-A	1AE06019.D	05/06/2013	15:24
CV1067B-CS MS	680-89985-3 MS	1AE06025.D	05/06/2013	16:56
CV1067B-CS MSD	680-89985-3 MSD	1AE06026.D	05/06/2013	17:11

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

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Lab File ID: 1AE07002.D DFTPP Injection Date: 05/07/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 12:17

Analysis Batch No.: 137194

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	34.6	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	30.9	
70	Less than 2.0 % of mass 69	0.4	(1.4)1
127	10.0 - 80.0 % of mass 198	39.6	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.8	
275	10.0 - 60.0 % of mass 198	24.8	
365	Greater than 1.0 % of mass 198	3.0	
441	Present but less than mass 443	14.0	
442	Greater than 50.0 % of mass 198	92.4	
443	15.0 - 24.0 % of mass 442	18.3	(19.8)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 660-137194/3	1AE07003.D	05/07/2013	12:34
CV0725A-CS	680-89985-1	1AE07005.D	05/07/2013	13:21
CV1067A-CS	680-89985-2	1AE07006.D	05/07/2013	13:36
HP0333A-CS	680-89985-4	1AE07007.D	05/07/2013	13:51
HP0333A-CSD	680-89985-5	1AE07008.D	05/07/2013	14:06
CV1067B-CS	680-89985-3	1AE07009.D	05/07/2013	14:21
HP0333B-CS	680-89985-6	1AE07010.D	05/07/2013	14:36
HP0334A-CS	680-89985-7	1AE07011.D	05/07/2013	14:51
CV1114A-CS	680-89985-8	1AE07012.D	05/07/2013	15:06
CV1114A-CSD	680-89985-9	1AE07013.D	05/07/2013	15:22
CV1114B-CS	680-89985-10	1AE07014.D	05/07/2013	15:37
CV1166A-CS	680-89985-11	1AE07015.D	05/07/2013	15:52
CV1166B-CS	680-89985-12	1AE07016.D	05/07/2013	16:07
CV1166B-CSD	680-89985-13	1AE07017.D	05/07/2013	16:22
CV1177A-CS	680-89985-14	1AE07018.D	05/07/2013	16:37
CV1177B-CS	680-89985-15	1AE07019.D	05/07/2013	16:52
CV1006A-CS	680-89985-16	1AE07020.D	05/07/2013	17:07
CV1006B-CS	680-89985-17	1AE07021.D	05/07/2013	17:22

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

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Lab File ID: 1AE08002.D DFTPP Injection Date: 05/08/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 14:11

Analysis Batch No.: 137292

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	53.9	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	44.2	
70	Less than 2.0 % of mass 69	0.5	(1.1)1
127	10.0 - 80.0 % of mass 198	49.5	
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	8.4	
275	10.0 - 60.0 % of mass 198	23.4	
365	Greater than 1.0 % of mass 198	2.0	
441	Present but less than mass 443	7.0	
442	Greater than 50.0 % of mass 198	51.3	
443	15.0 - 24.0 % of mass 442	10.8	(21.1)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-137292/3	1AE08003.D	05/08/2013	14:31
	MB 660-137234/1-A	1AE08010.D	05/08/2013	17:58
	LCS 660-137234/2-A	1AE08011.D	05/08/2013	18:13

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

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Lab File ID: 1AE09003.D DFTPP Injection Date: 05/09/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 10:42

Analysis Batch No.: 137283

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	44.3	
68	Less than 2.0 % of mass 69	0.6	(1.5)1
69	Mass 69 relative abundance	43.6	
70	Less than 2.0 % of mass 69	0.5	(1.2)1
127	10.0 - 80.0 % of mass 198	48.8	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.5	
275	10.0 - 60.0 % of mass 198	24.7	
365	Greater than 1.0 % of mass 198	3.1	
441	Present but less than mass 443	10.4	
442	Greater than 50.0 % of mass 198	75.8	
443	15.0 - 24.0 % of mass 442	13.0	(17.1)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-137283/4	1AE09004.D	05/09/2013	10:56
CV1114A-CS DL	680-89985-8 DL	1AE09011.D	05/09/2013	12:41
CV1165A-CS	680-89985-18	1AE09020.D	05/09/2013	14:57
CV1165B-CS	680-89985-19	1AE09021.D	05/09/2013	15:12
CV1165B-CSD	680-89985-20	1AE09022.D	05/09/2013	15:27
	680-89985-A-22-B MS	1AE09025.D	05/09/2013	16:12
	680-89985-A-22-C MSD	1AE09026.D	05/09/2013	16:28

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

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

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
MB 660-137132/1-A		1640003	2.54	834813	3.57	1379503	4.53
LCS 660-137132/2-A		1543432	2.54	808163	3.58	1393811	4.53
680-89985-3 MS	CV1067B-CS MS	1074078	2.55	539450	3.57	802754	4.52
680-89985-3 MSD	CV1067B-CS MSD	1083422	2.55	548460	3.57	839987	4.52

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.: 680-89985-1

SDG No.: 68089985-1

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		
MB 660-137132/1-A		1030752	6.54	1093945	7.63		
LCS 660-137132/2-A		1181721	6.54	1095540	7.63		
680-89985-3 MS	CV1067B-CS MS	668390	6.54	856623	7.63		
680-89985-3 MSD	CV1067B-CS MSD	759310	6.55	953129	7.64		

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.: 680-89985-1

SDG No.: 68089985-1

Sample No.: CCVIS 660-137194/3 Date Analyzed: 05/07/2013 12:34

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

Lab File ID (Standard): 1AE07003.D Heated Purge: (Y/N) N

Calibration ID: 2952

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1567038	2.54	791444	3.58	1382047	4.53
UPPER LIMIT		3134076	3.04	1582888	4.08	2764094	5.03
LOWER LIMIT		783519	2.04	395722	3.08	691024	4.03
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-89985-1	CV0725A-CS	1292074	2.54	674428	3.57	966252	4.52
680-89985-2	CV1067A-CS	1268572	2.55	659306	3.57	945509	4.52
680-89985-4	HP0333A-CS	1268269	2.55	648229	3.58	919391	4.53
680-89985-5	HP0333A-CSD	1279194	2.55	668542	3.58	911020	4.53
680-89985-3	CV1067B-CS	1676388	2.55	833606	3.58	1182572	4.53
680-89985-6	HP0333B-CS	1335286	2.55	707917	3.58	1046429	4.53
680-89985-7	HP0334A-CS	1268390	2.55	683898	3.58	930634	4.53
680-89985-8	CV1114A-CS	1190995	2.55	616859	3.58	855104	4.53
680-89985-9	CV1114A-CSD	1248681	2.55	660609	3.59	890253	4.54
680-89985-10	CV1114B-CS	1278898	2.55	690373	3.58	963234	4.54
680-89985-11	CV1166A-CS	1220695	2.55	639977	3.58	932510	4.54
680-89985-12	CV1166B-CS	1225222	2.55	657756	3.58	950637	4.54
680-89985-13	CV1166B-CSD	1250512	2.56	674054	3.58	940872	4.54
680-89985-14	CV1177A-CS	1222054	2.56	653620	3.59	948870	4.54
680-89985-15	CV1177B-CS	1280777	2.55	670440	3.58	969066	4.54
680-89985-16	CV1006A-CS	1238356	2.56	674907	3.59	969752	4.54
680-89985-17	CV1006B-CS	1285250	2.56	675415	3.59	1026699	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.: 680-89985-1

SDG No.: 68089985-1

Sample No.: CCVIS 660-137194/3 Date Analyzed: 05/07/2013 12:34

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

Lab File ID (Standard): 1AE07003.D Heated Purge: (Y/N) N

Calibration ID: 2952

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1280470	6.55	1180356	7.63		
UPPER LIMIT		2560940	7.05	2360712	8.13		
LOWER LIMIT		640235	6.05	590178	7.13		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-89985-1	CV0725A-CS	776808	6.54	979137	7.63		
680-89985-2	CV1067A-CS	809053	6.54	1036526	7.64		
680-89985-4	HP0333A-CS	809088	6.55	1064414	7.64		
680-89985-5	HP0333A-CSD	855872	6.55	1127756	7.65		
680-89985-3	CV1067B-CS	1274826	6.56	1684744	7.66		
680-89985-6	HP0333B-CS	899446	6.55	1108451	7.65		
680-89985-7	HP0334A-CS	932546	6.56	1126936	7.65		
680-89985-8	CV1114A-CS	1064026	6.58	1330865	7.68		
680-89985-9	CV1114A-CSD	937549	6.57	1146199	7.66		
680-89985-10	CV1114B-CS	968916	6.57	1148769	7.66		
680-89985-11	CV1166A-CS	998308	6.56	1122974	7.66		
680-89985-12	CV1166B-CS	1081721	6.57	1189134	7.67		
680-89985-13	CV1166B-CSD	1087372	6.57	1136183	7.67		
680-89985-14	CV1177A-CS	1007824	6.57	1069746	7.67		
680-89985-15	CV1177B-CS	1164091	6.58	1175313	7.68		
680-89985-16	CV1006A-CS	1100174	6.58	1084952	7.67		
680-89985-17	CV1006B-CS	1105170	6.58	1061082	7.68		

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.: 680-89985-1

SDG No.: 68089985-1

Sample No.: CCVIS 660-137292/3 Date Analyzed: 05/08/2013 14:31

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

Lab File ID (Standard): 1AE08003.D Heated Purge: (Y/N) N

Calibration ID: 2952

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1248061	2.54	640327	3.57	1071156	4.52
UPPER LIMIT		2496122	3.04	1280654	4.07	2142312	5.02
LOWER LIMIT		624031	2.04	320164	3.07	535578	4.02
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-137234/1-A		1447900	2.54	758968	3.57	1256439	4.52
LCS 660-137234/2-A		1077180	2.54	592914	3.57	1000050	4.52

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.: 680-89985-1

SDG No.: 68089985-1

Sample No.: CCVIS 660-137292/3 Date Analyzed: 05/08/2013 14:31

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

Lab File ID (Standard): 1AE08003.D Heated Purge: (Y/N) N

Calibration ID: 2952

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		928886	6.54	792941	7.63		
UPPER LIMIT		1857772	7.04	1585882	8.13		
LOWER LIMIT		464443	6.04	396471	7.13		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-137234/1-A		1113466	6.54	970340	7.64		
LCS 660-137234/2-A		881560	6.53	750317	7.62		

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.: 680-89985-1

SDG No.: 68089985-1

Sample No.: CCVIS 660-137283/4 Date Analyzed: 05/09/2013 10:56

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

Lab File ID (Standard): 1AE09004.D Heated Purge: (Y/N) N

Calibration ID: 2952

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1229116	2.54	604439	3.57	1023634	4.52
UPPER LIMIT		2458232	3.04	1208878	4.07	2047268	5.02
LOWER LIMIT		614558	2.04	302220	3.07	511817	4.02
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-89985-8 DL	CV1114A-CS DL	953685	2.55	488762	3.58	768867	4.53
680-89985-18	CV1165A-CS	1084672	2.55	557632	3.58	843308	4.54
680-89985-19	CV1165B-CS	1046787	2.55	540532	3.58	832058	4.54
680-89985-20	CV1165B-CSD	1039857	2.55	550423	3.58	824868	4.54
680-89985-A-22-B MS		1004876	2.55	534509	3.59	859418	4.54
680-89985-A-22-C MSD		987230	2.56	534823	3.59	846339	4.54

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.: 680-89985-1

SDG No.: 68089985-1

Sample No.: CCVIS 660-137283/4 Date Analyzed: 05/09/2013 10:56

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

Lab File ID (Standard): 1AE09004.D Heated Purge: (Y/N) N

Calibration ID: 2952

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		901534	6.54	671595	7.63		
UPPER LIMIT		1803068	7.04	1343190	8.13		
LOWER LIMIT		450767	6.04	335798	7.13		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-89985-8 DL	CV1114A-CS DL	636522	6.56	699886	7.65		
680-89985-18	CV1165A-CS	787677	6.57	744024	7.66		
680-89985-19	CV1165B-CS	749686	6.57	695437	7.66		
680-89985-20	CV1165B-CSD	718195	6.57	704585	7.66		
680-89985-A-22-B MS		812087	6.58	748926	7.67		
680-89985-A-22-C MSD		813364	6.58	746047	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 I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: CV0725A-CS | Lab Sample ID: 680-89985-1

Matrix: Solid | Lab File ID: 1AE07005.D

Analysis Method: 8270C LL | Date Collected: 05/01/2013 10:00

Extract. Method: 3546 | Date Extracted: 05/06/2013 08:14

Sample wt/vol: 15.13(g) | Date Analyzed: 05/07/2013 13:21

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

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

% Moisture: 11.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137194 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	73		45	5.6
120-12-7	Anthracene	140		9.4	4.7
56-55-3	Benzo[a]anthracene	360		9.0	4.4
50-32-8	Benzo[a]pyrene	330		12	5.8
205-99-2	Benzo[b]fluoranthene	450		14	6.8
191-24-2	Benzo[g,h,i]perylene	330		22	4.9
207-08-9	Benzo[k]fluoranthene	220		9.0	4.0
218-01-9	Chrysene	340		10	5.0
53-70-3	Dibenz(a,h)anthracene	88		22	4.6
206-44-0	Fluoranthene	510		22	4.5
86-73-7	Fluorene	36		22	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	300		22	8.0
90-12-0	1-Methylnaphthalene	100		45	4.9
91-57-6	2-Methylnaphthalene	120		45	8.0
91-20-3	Naphthalene	110		45	4.9
85-01-8	Phenanthrene	390		9.0	4.4
129-00-0	Pyrene	460		22	4.2

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\1AE07005.D
Lab Smp Id: 680-89985-A-1-A Client Smp ID: CV0725A-CS
Inj Date : 07-MAY-2013 13:21
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89985-a-1-a
Misc Info : 680-89985-A-1-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\a-bFASTPAHi-m.m
Meth Date : 07-May-2013 13:04 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 5
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	15.130	Weight Extracted
M	12.000	% 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	2.543	2.544	(1.000)	1292074	40.0000	
* 6 Acenaphthene-d10	164	3.569	3.575	(1.000)	674428	40.0000	
* 10 Phenanthrene-d10	188	4.520	4.526	(1.000)	966252	40.0000	
$ 14 o-Terphenyl	230	4.819	4.820	(1.066)	91536	6.61905	497.1347
* 18 Chrysene-d12	240	6.539	6.545	(1.000)	776808	40.0000	
* 23 Perylene-d12	264	7.634	7.630	(1.000)	979137	40.0000	
2 Naphthalene	128	2.554	2.555	(1.004)	45359	1.49074	111.9641
3 2-Methylnaphthalene	141	2.960	2.961	(1.164)	25027	1.61845	121.5562
4 1-Methylnaphthalene	142	3.013	3.014	(1.185)	25785	1.39117	104.4858
5 Acenaphthylene	152	3.484	3.484	(0.976)	31016	0.97871	73.5076
9 Fluorene	166	3.900	3.906	(1.093)	9864	0.47560	35.7206
11 Phenanthrene	178	4.536	4.537	(1.004)	124619	5.20588	390.9964
12 Anthracene	178	4.568	4.574	(1.011)	47043	1.84485	138.5606
13 Carbazole	167	4.702	4.707	(1.040)	17365	0.75740	56.8858

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	5.396	5.402	(1.194)	188814	6.85631	514.9548
16 Pyrene	202	5.562	5.568	(0.851)	154073	6.17043	463.4403
17 Benzo(a)anthracene	228	6.534	6.529	(0.999)	105321	4.82423	362.3321
19 Chrysene	228	6.555	6.561	(1.002)	112129	4.56481	342.8475
20 Benzo(b)fluoranthene	252	7.351	7.352	(0.963)	155879	6.02309	452.3741(M)
21 Benzo(k)fluoranthene	252	7.362	7.373	(0.964)	93615	2.91575	218.9922(M)
22 Benzo(a)pyrene	252	7.581	7.576	(0.993)	117724	4.42923	332.6648
24 Indeno(1,2,3-cd)pyrene	276	8.393	8.388	(1.099)	88197	3.96100	297.4975(M)
25 Dibenzo(a,h)anthracene	278	8.420	8.410	(1.103)	26932	1.17997	88.6235
26 Benzo(g,h,i)perylene	276	8.612	8.602	(1.128)	104171	4.35061	326.7598(M)

QC Flag Legend

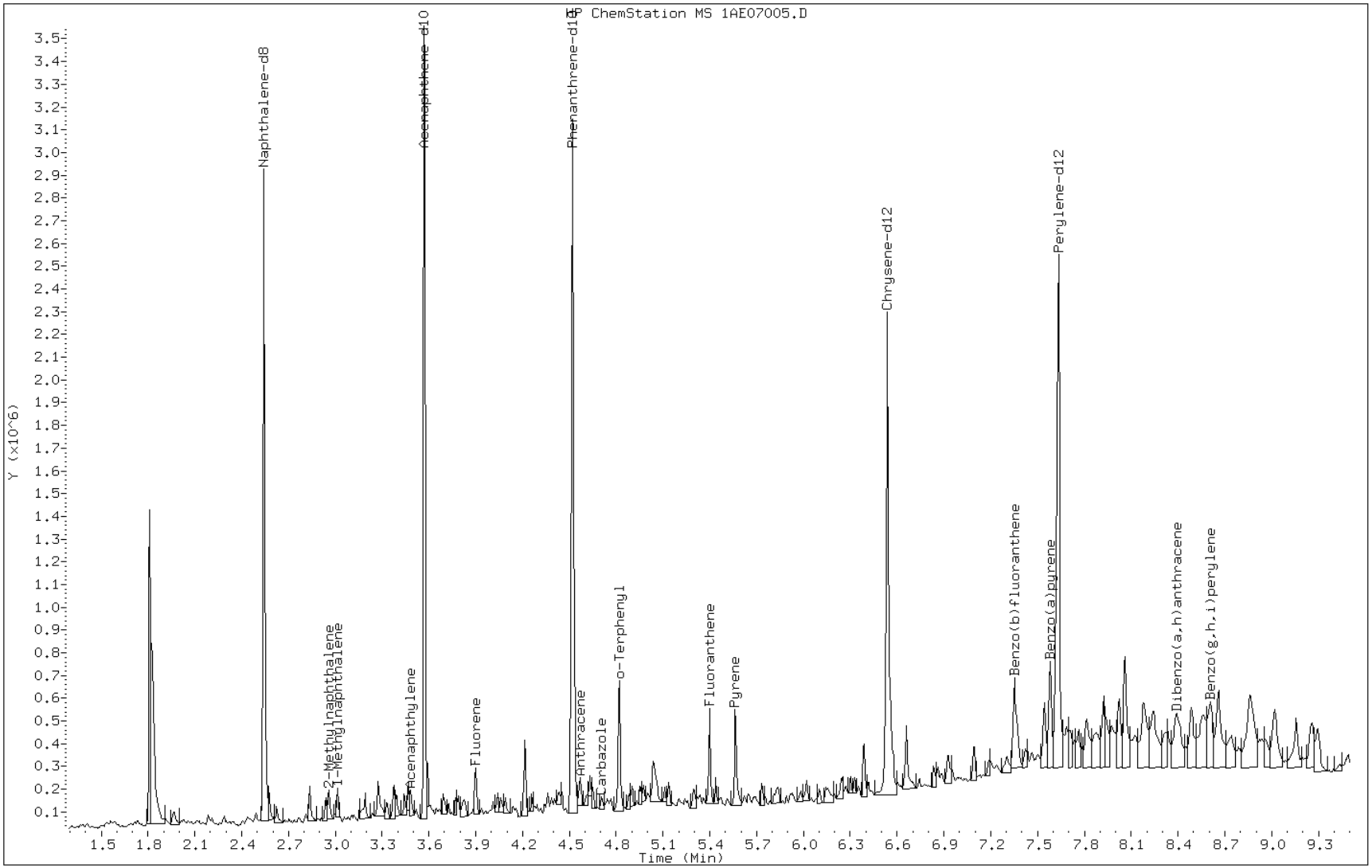
M - Compound response manually integrated.

Data File: 1AE07005.D

Date: 07-MAY-2013 13:21

Client ID: CV0725A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-1-a Operator: SCC



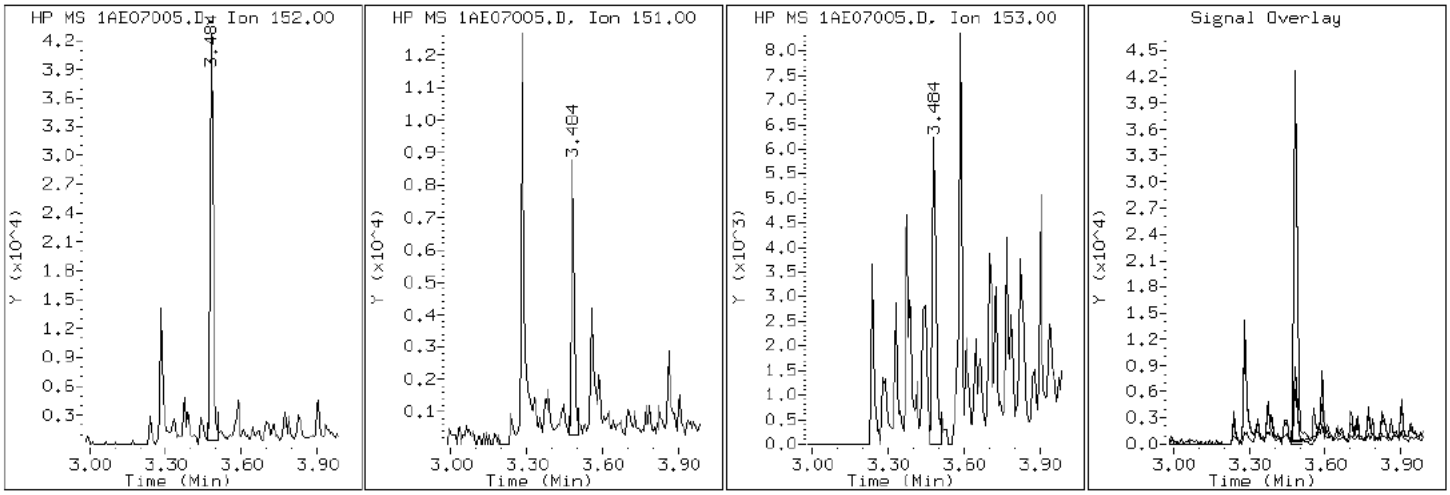
Data File: 1AE07005.D

Date: 07-MAY-2013 13:21

Client ID: CV0725A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-1-a Operator: SCC

5 Acenaphthylene



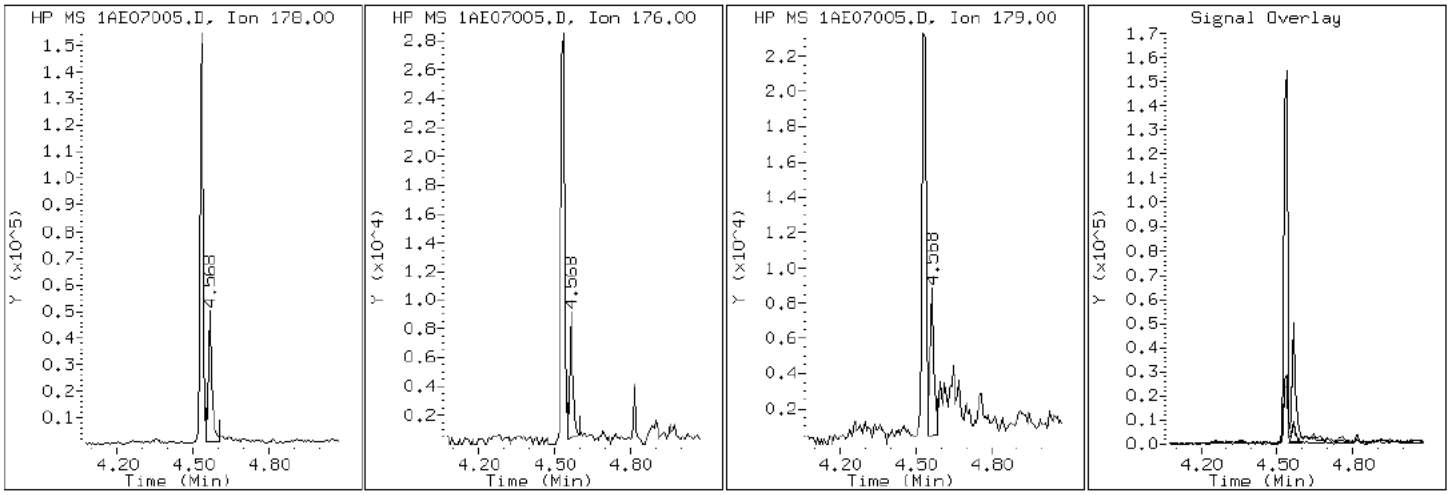
Data File: 1AE07005.D

Date: 07-MAY-2013 13:21

Client ID: CV0725A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-1-a Operator: SCC

12 Anthracene



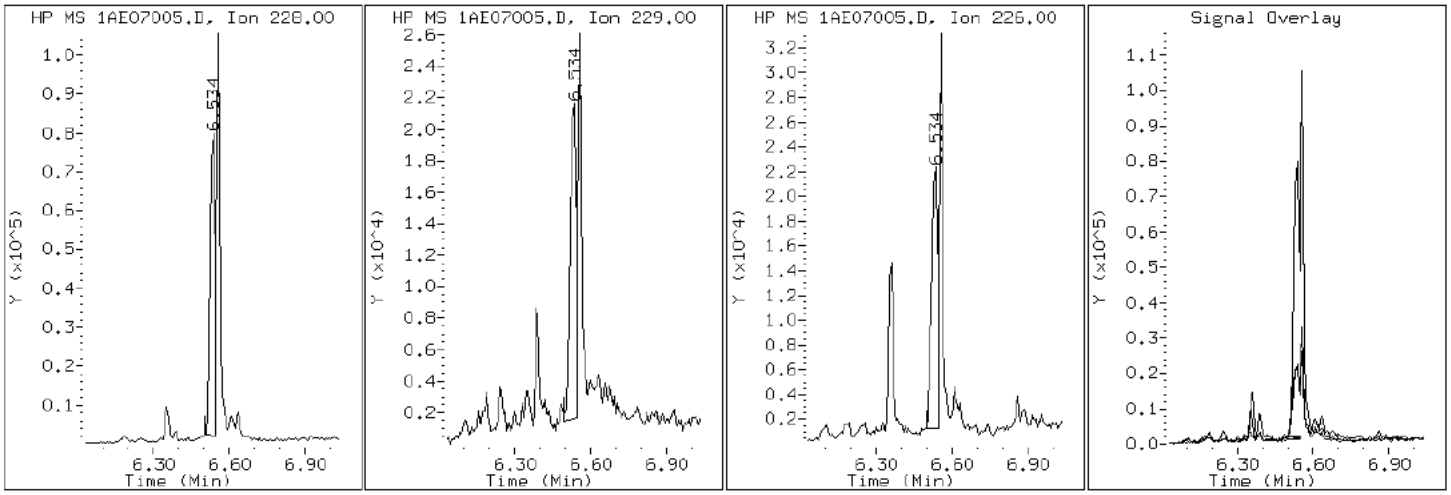
Data File: 1AE07005.D

Date: 07-MAY-2013 13:21

Client ID: CV0725A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-1-a Operator: SCC

17 Benzo(a)anthracene



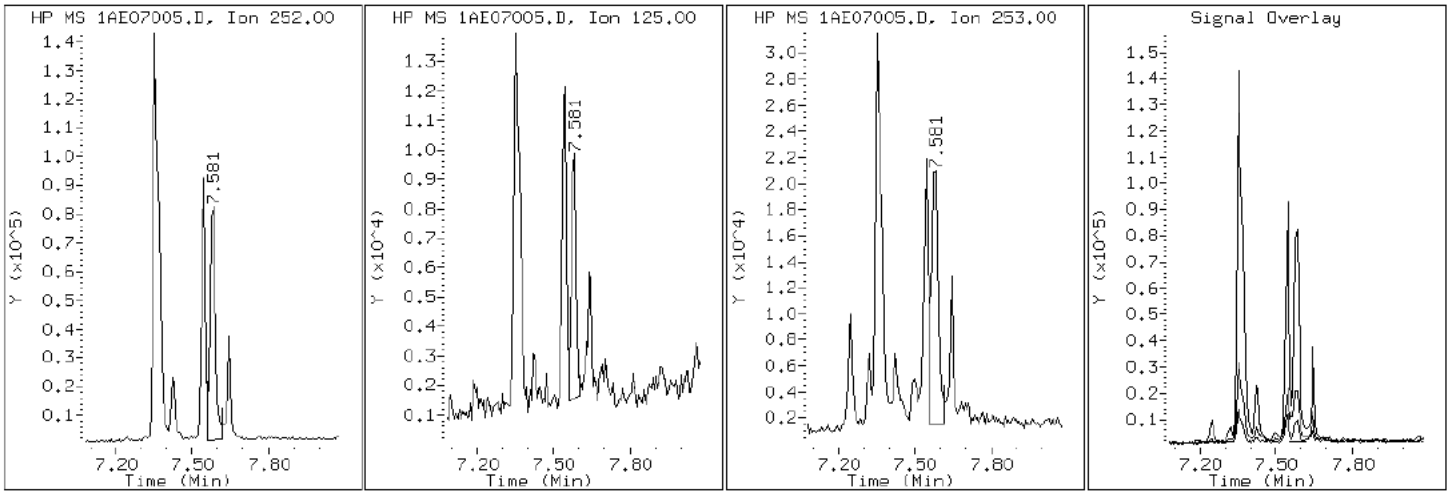
Data File: 1AE07005.D

Date: 07-MAY-2013 13:21

Client ID: CV0725A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-1-a Operator: SCC

22 Benzo(a)pyrene



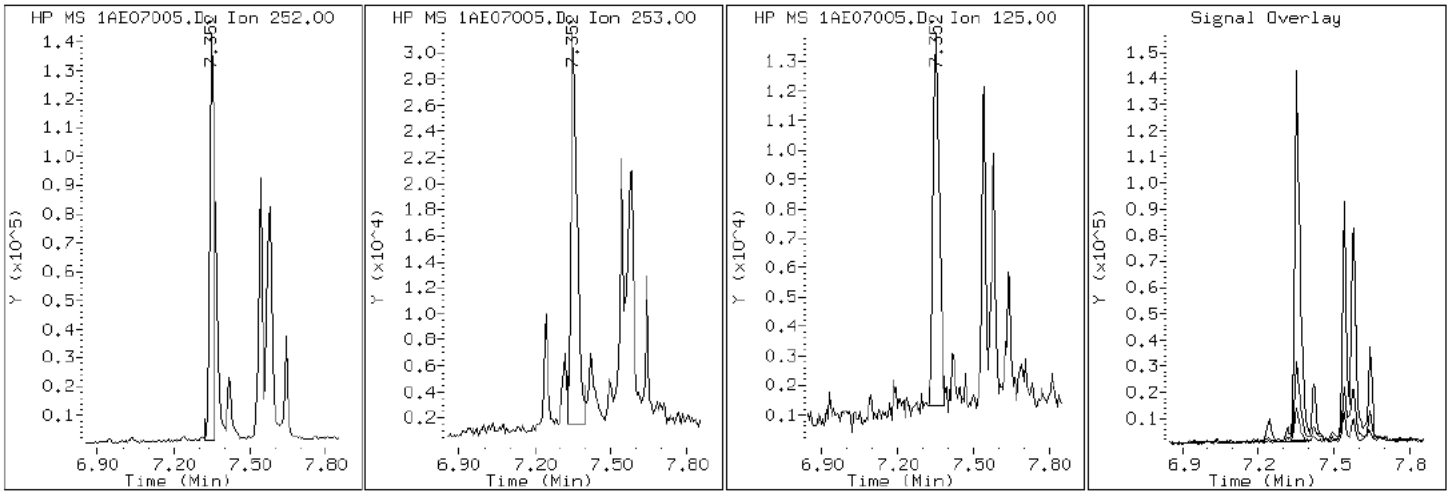
Data File: 1AE07005.D

Date: 07-MAY-2013 13:21

Client ID: CV0725A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-1-a Operator: SCC

20 Benzo(b)fluoranthene



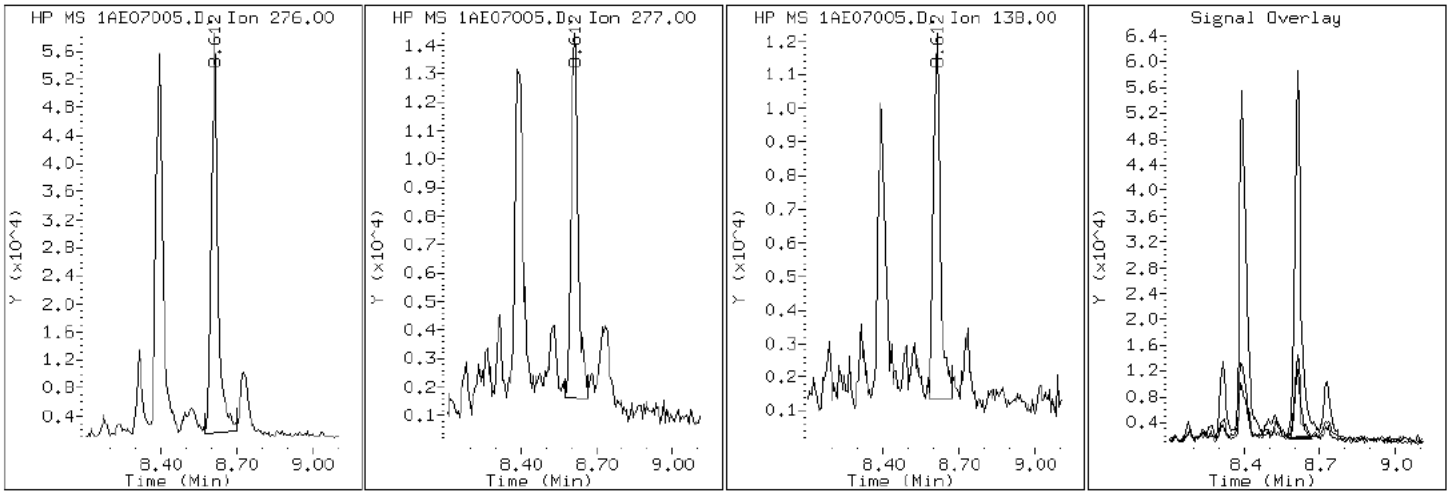
Data File: 1AE07005.D

Date: 07-MAY-2013 13:21

Client ID: CV0725A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-1-a Operator: SCC

26 Benzo(g,h,i)perylene



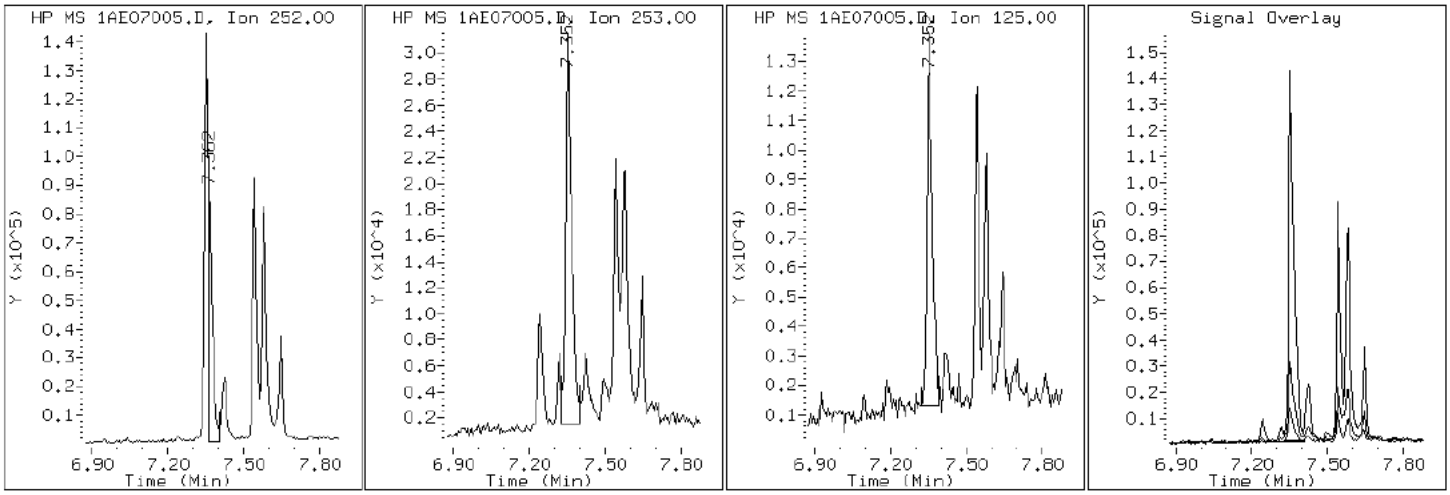
Data File: 1AE07005.D

Date: 07-MAY-2013 13:21

Client ID: CV0725A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-1-a Operator: SCC

21 Benzo(k)fluoranthene



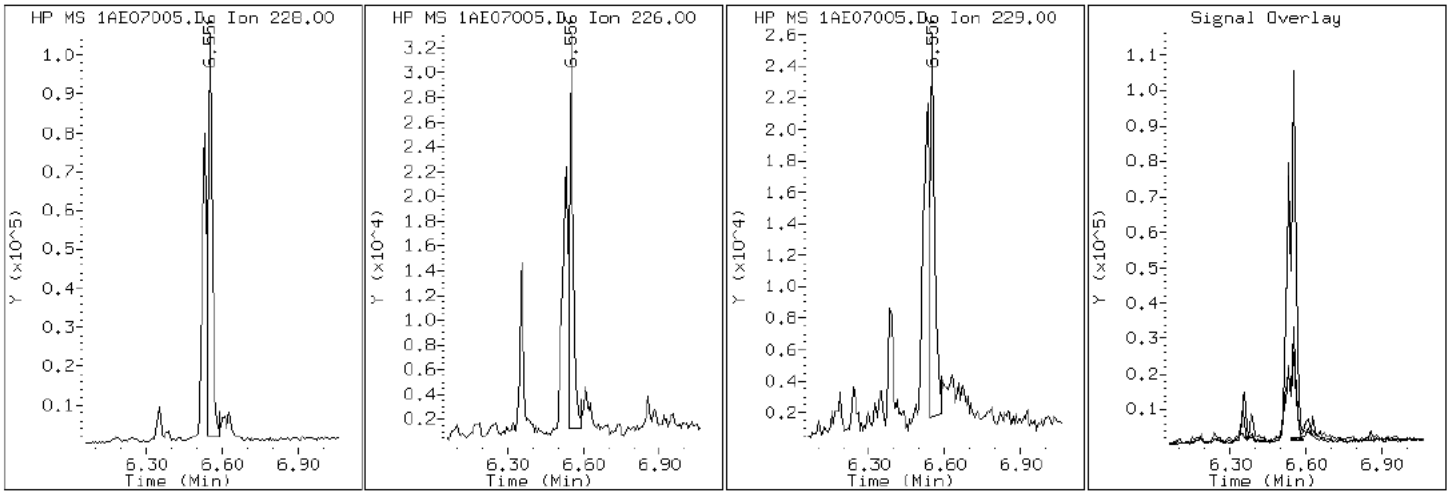
Data File: 1AE07005.D

Date: 07-MAY-2013 13:21

Client ID: CV0725A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-1-a Operator: SCC

19 Chrysene



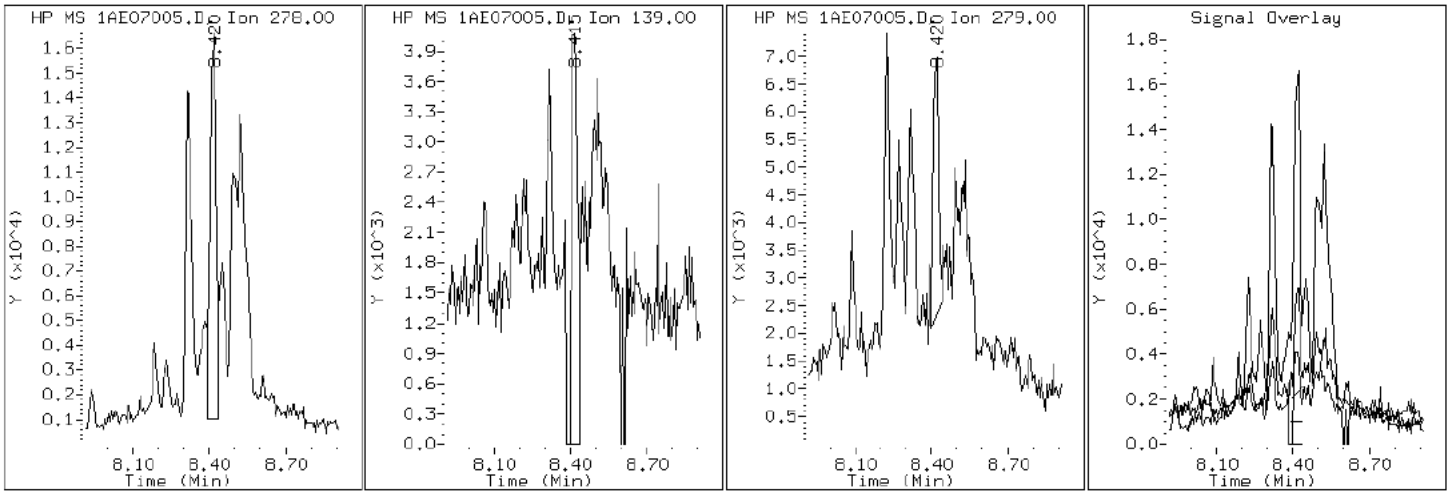
Data File: 1AE07005.D

Date: 07-MAY-2013 13:21

Client ID: CV0725A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-1-a Operator: SCC

25 Dibenzo(a,h)anthracene



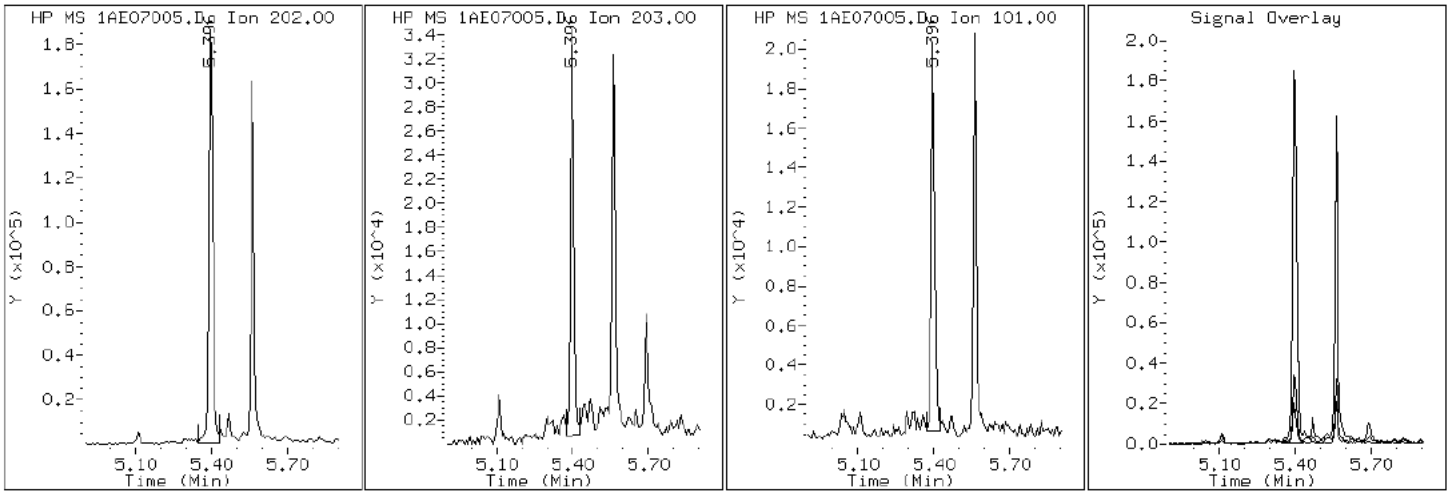
Data File: 1AE07005.D

Date: 07-MAY-2013 13:21

Client ID: CV0725A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-1-a Operator: SCC

15 Fluoranthene



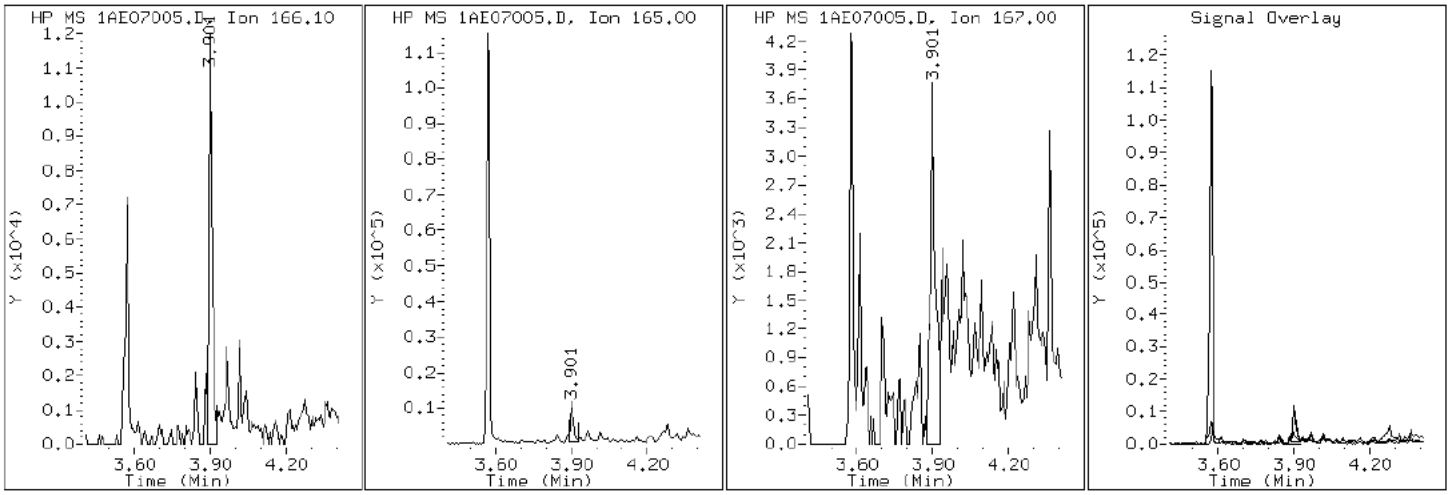
Data File: 1AE07005.D

Date: 07-MAY-2013 13:21

Client ID: CV0725A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-1-a Operator: SCC

9 Fluorene



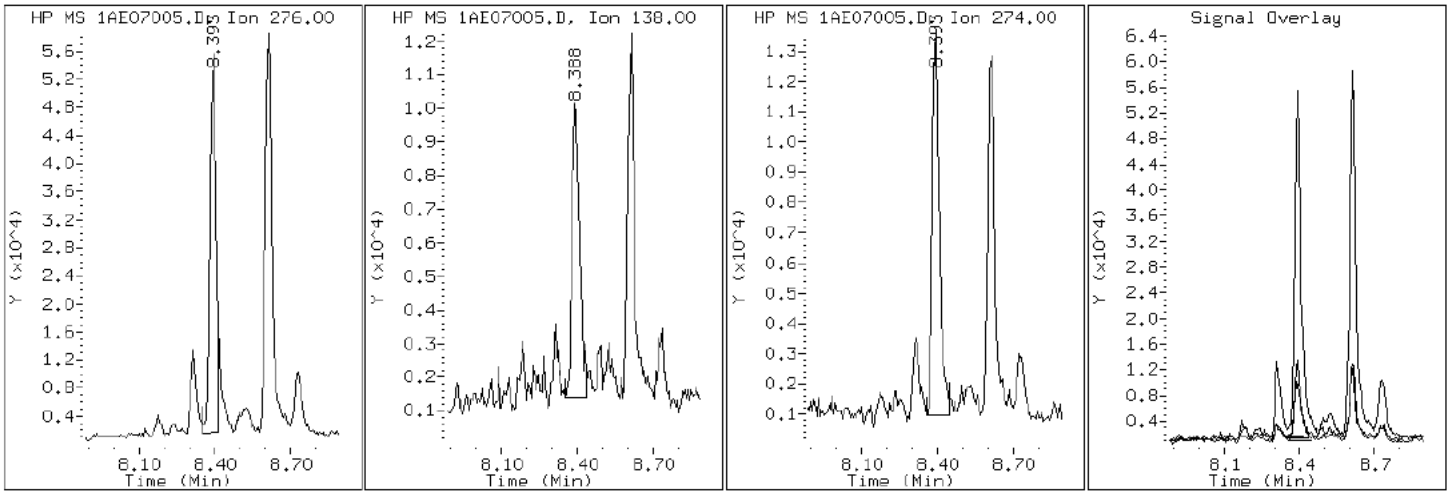
Data File: 1AE07005.D

Date: 07-MAY-2013 13:21

Client ID: CV0725A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-1-a Operator: SCC

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



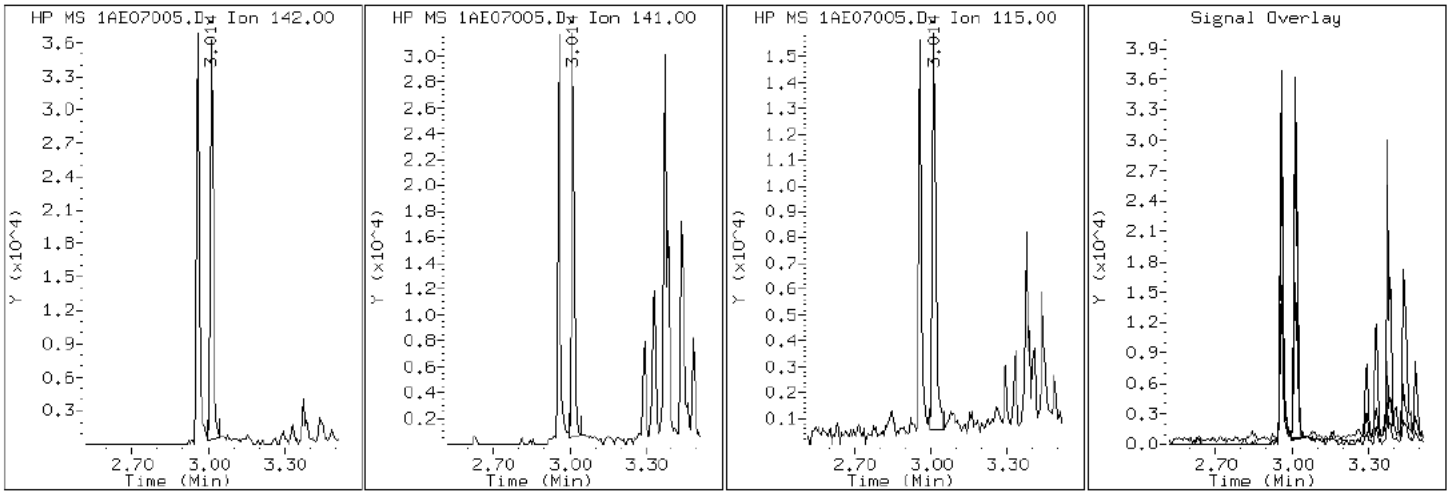
Data File: 1AE07005.D

Date: 07-MAY-2013 13:21

Client ID: CV0725A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-1-a Operator: SCC

4 1-Methylnaphthalene



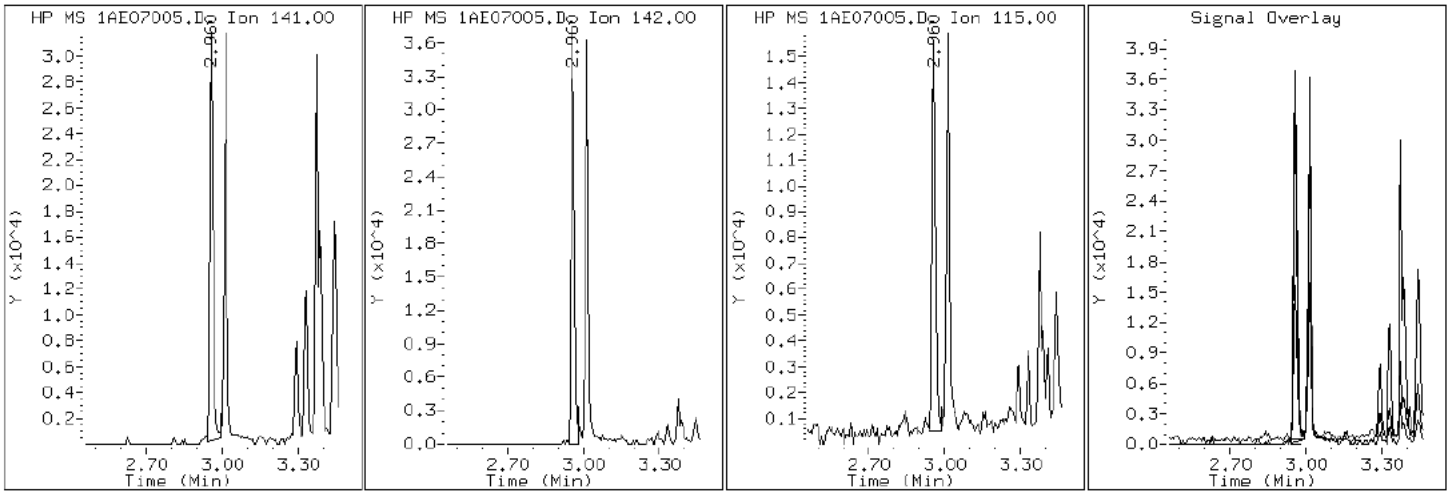
Data File: 1AE07005.D

Date: 07-MAY-2013 13:21

Client ID: CV0725A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-1-a Operator: SCC

3 2-Methylnaphthalene



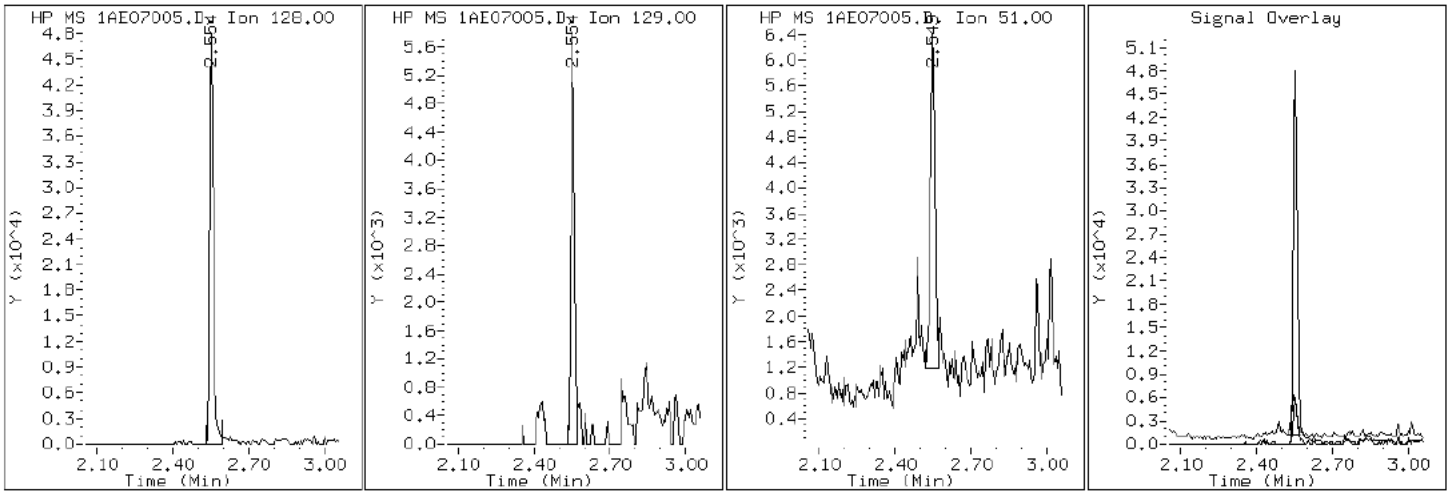
Data File: 1AE07005.D

Date: 07-MAY-2013 13:21

Client ID: CV0725A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-1-a Operator: SCC

2 Naphthalene



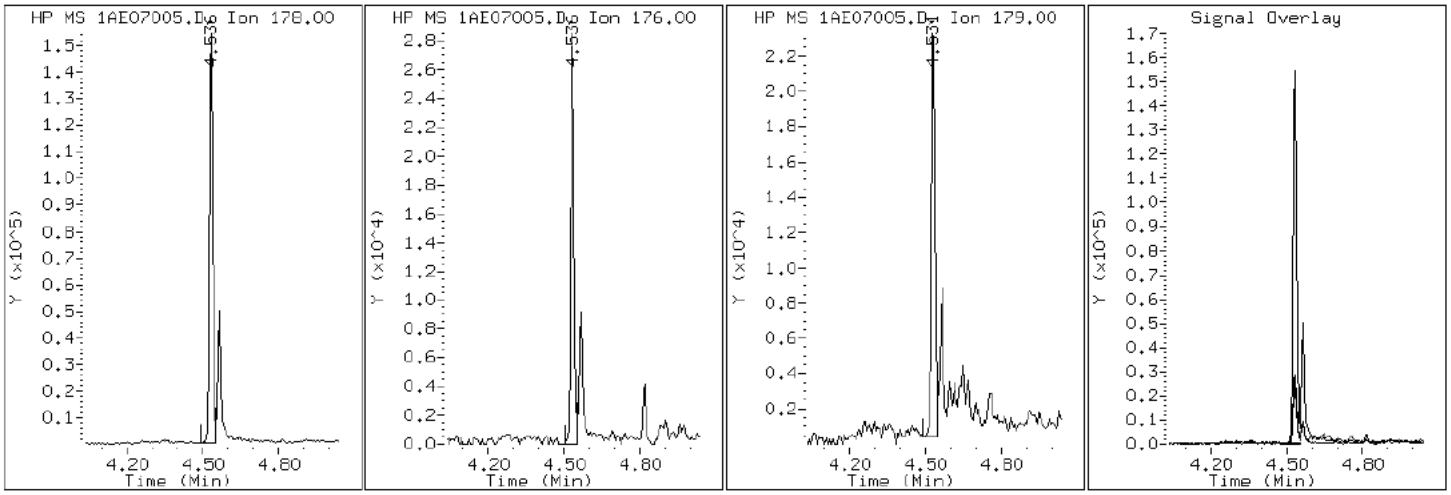
Data File: 1AE07005.D

Date: 07-MAY-2013 13:21

Client ID: CV0725A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-1-a Operator: SCC

11 Phenanthrene



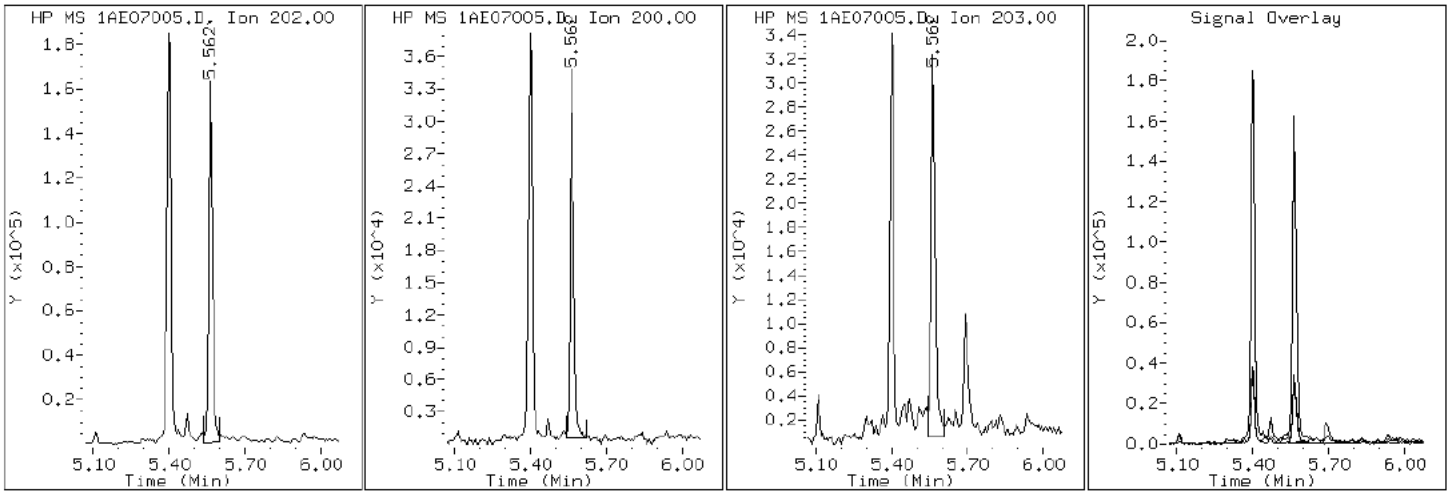
Data File: 1AE07005.D

Date: 07-MAY-2013 13:21

Client ID: CV0725A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-1-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE07005.D
Inj. Date and Time: 07-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID: CV0725A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

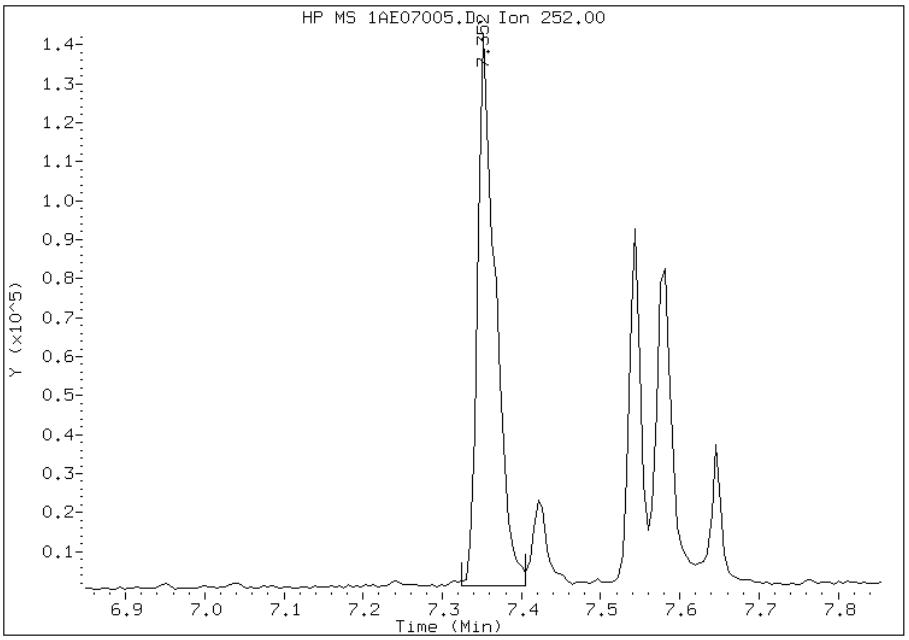
Processing Integration Results

RT: 7.35

Response: 220581

Amount: 9

Conc: 640



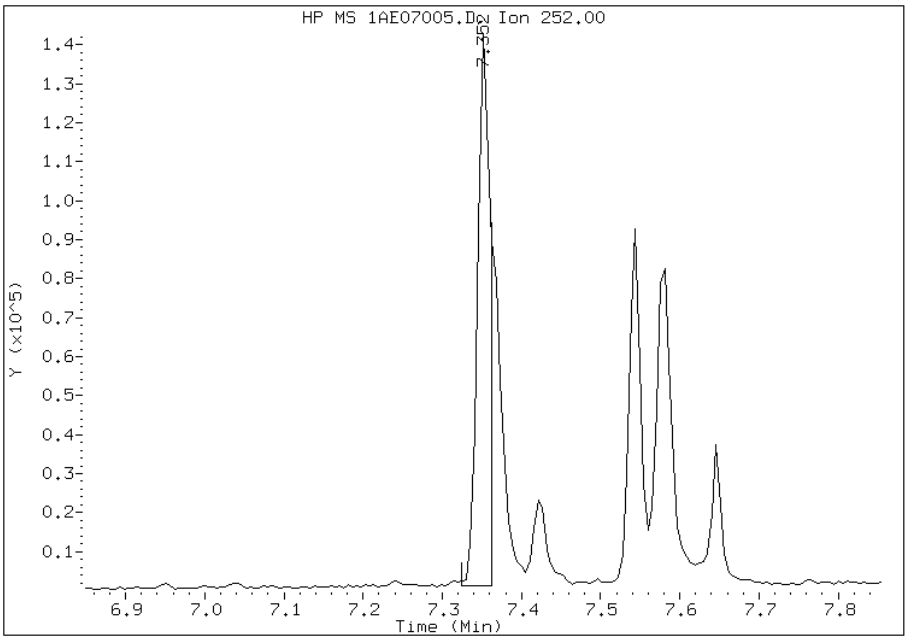
Manual Integration Results

RT: 7.35

Response: 155879

Amount: 6

Conc: 452



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:05
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE07005.D
Inj. Date and Time: 07-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID: CV0725A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/09/2013

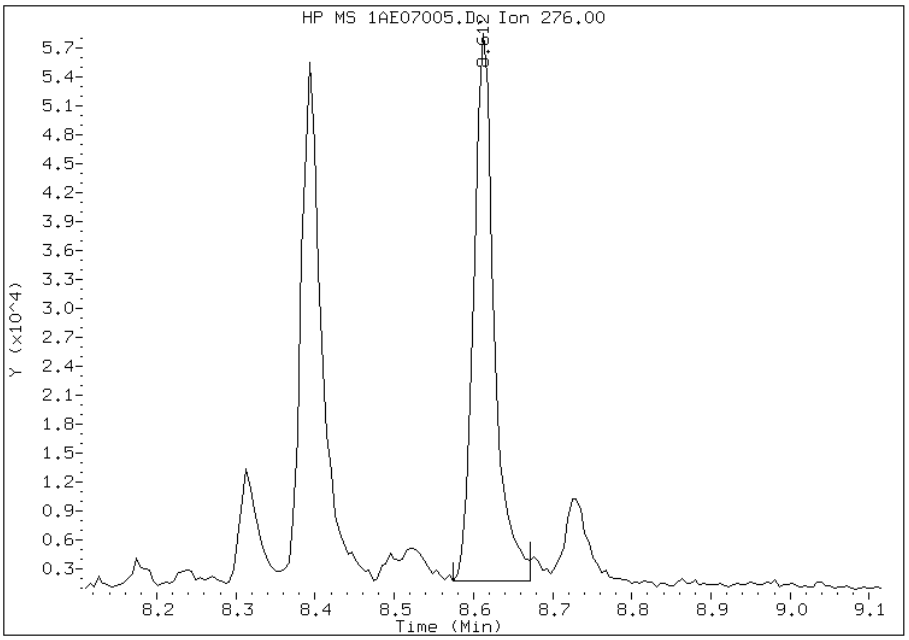
Processing Integration Results

RT: 8.61

Response: 102090

Amount: 4

Conc: 320



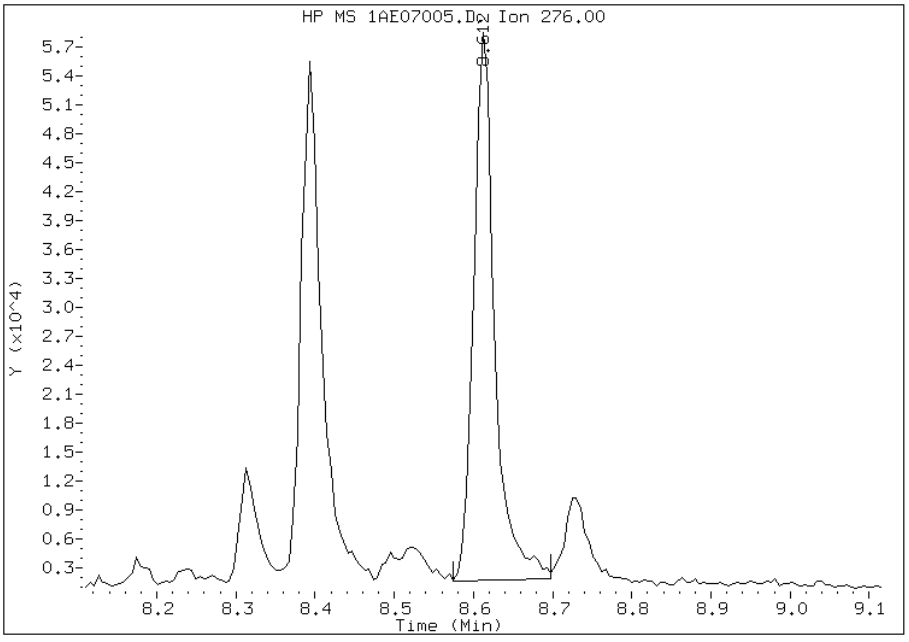
Manual Integration Results

RT: 8.61

Response: 104171

Amount: 4

Conc: 327



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:07
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE07005.D
Inj. Date and Time: 07-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID: CV0725A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

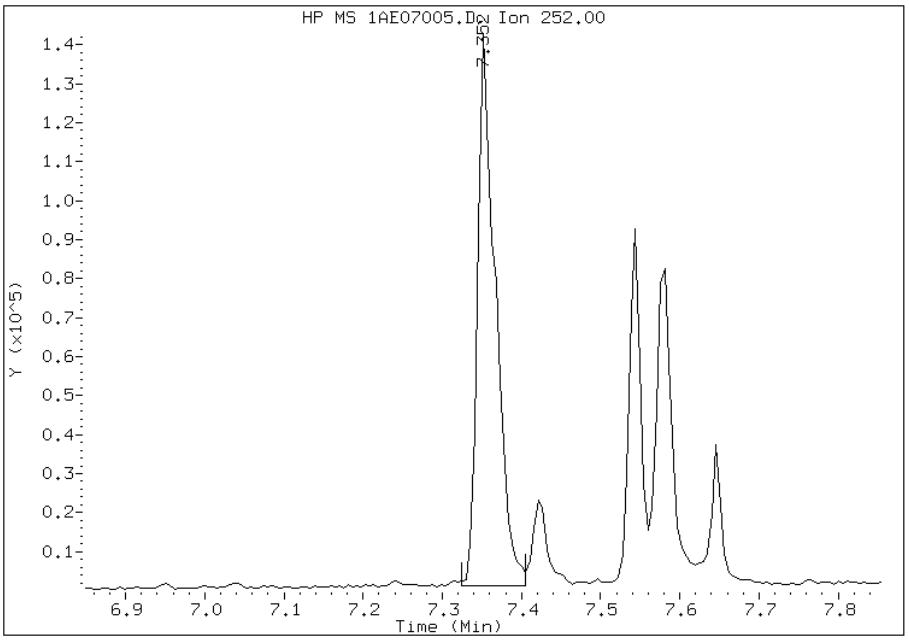
Processing Integration Results

RT: 7.35

Response: 220581

Amount: 7

Conc: 516



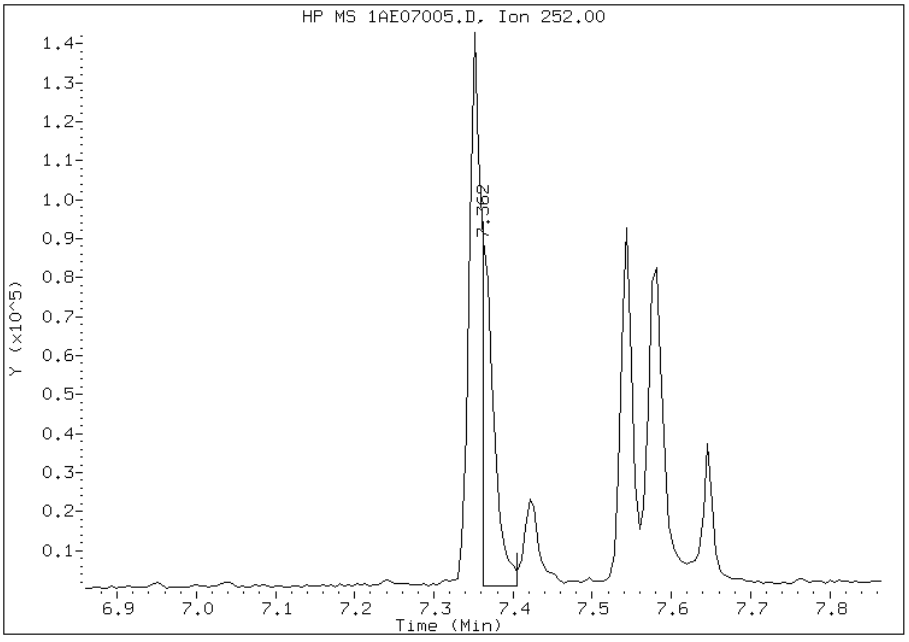
Manual Integration Results

RT: 7.36

Response: 93615

Amount: 3

Conc: 219



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:05
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE07005.D
Inj. Date and Time: 07-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID: CV0725A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

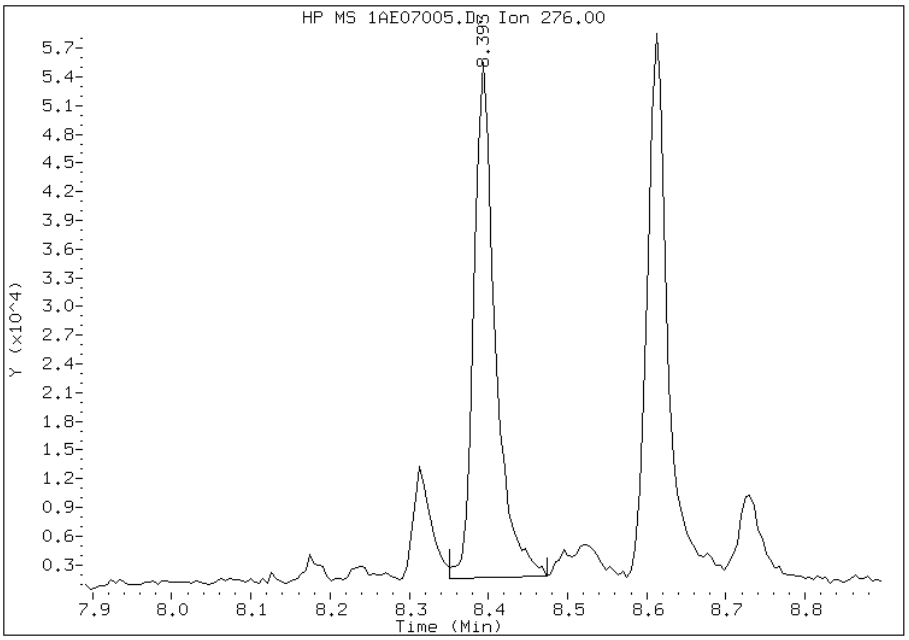
Processing Integration Results

RT: 8.39

Response: 100498

Amount: 5

Conc: 339



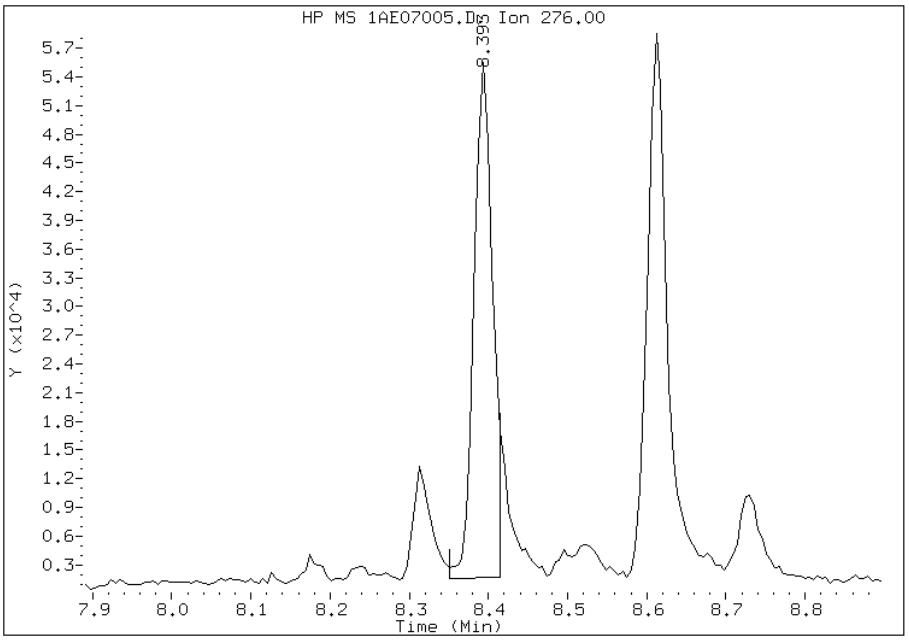
Manual Integration Results

RT: 8.39

Response: 88197

Amount: 4

Conc: 297



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:05
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: CV1067A-CS | Lab Sample ID: 680-89985-2

Matrix: Solid | Lab File ID: 1AE07006.D

Analysis Method: 8270C LL | Date Collected: 05/01/2013 10:40

Extract. Method: 3546 | Date Extracted: 05/06/2013 08:14

Sample wt/vol: 14.94(g) | Date Analyzed: 05/07/2013 13:36

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

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

% Moisture: 18.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137194 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	31	J	49	6.2
120-12-7	Anthracene	49		10	5.2
56-55-3	Benzo[a]anthracene	150		9.8	4.8
50-32-8	Benzo[a]pyrene	120		13	6.4
205-99-2	Benzo[b]fluoranthene	190		15	7.5
191-24-2	Benzo[g,h,i]perylene	170		25	5.4
207-08-9	Benzo[k]fluoranthene	77		9.8	4.4
218-01-9	Chrysene	160		11	5.5
53-70-3	Dibenz(a,h)anthracene	41		25	5.0
206-44-0	Fluoranthene	200		25	4.9
86-73-7	Fluorene	10	J	25	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	110		25	8.7
90-12-0	1-Methylnaphthalene	75		49	5.4
91-57-6	2-Methylnaphthalene	83		49	8.7
91-20-3	Naphthalene	70		49	5.4
85-01-8	Phenanthrene	190		9.8	4.8
129-00-0	Pyrene	170		25	4.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\1AE07006.D
Lab Smp Id: 680-89985-A-2-A Client Smp ID: CV1067A-CS
Inj Date : 07-MAY-2013 13:36
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89985-a-2-a
Misc Info : 680-89985-A-2-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\a-bFASTPAHi-m.m
Meth Date : 07-May-2013 13:04 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 6
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	18.000	% 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	2.547	2.544	(1.000)	1268572	40.0000	
*	6 Acenaphthene-d10	164	3.572	3.575	(1.000)	659306	40.0000	
*	10 Phenanthrene-d10	188	4.523	4.526	(1.000)	945509	40.0000	
$	14 o-Terphenyl	230	4.817	4.820	(1.065)	82825	6.12054	499.6035
*	18 Chrysene-d12	240	6.543	6.545	(1.000)	809053	40.0000	
*	23 Perylene-d12	264	7.638	7.630	(1.000)	1036526	40.0000	
	2 Naphthalene	128	2.557	2.555	(1.004)	25569	0.85590	69.8648(M)
	3 2-Methylnaphthalene	141	2.963	2.961	(1.164)	15333	1.00993	82.4375
	4 1-Methylnaphthalene	142	3.017	3.014	(1.185)	16598	0.91209	74.4518
	5 Acenaphthylene	152	3.487	3.484	(0.976)	11752	0.37934	30.9645
	9 Fluorene	166	3.903	3.906	(1.093)	2581	0.12730	10.3910
	11 Phenanthrene	178	4.539	4.537	(1.004)	54376	2.32136	189.4862
	12 Anthracene	178	4.571	4.574	(1.011)	15001	0.60119	49.0734
	13 Carbazole	167	4.705	4.707	(1.040)	5928	0.26423	21.5684(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	5.399	5.402	(1.194)	64145	2.38037	194.3030
16 Pyrene	202	5.565	5.568	(0.851)	54578	2.09867	171.3084
17 Benzo(a)anthracene	228	6.537	6.529	(0.999)	41878	1.84177	150.3390
19 Chrysene	228	6.559	6.561	(1.002)	51343	2.00689	163.8167
20 Benzo(b)fluoranthene	252	7.355	7.352	(0.963)	64127	2.34065	191.0607(M)
21 Benzo(k)fluoranthene	252	7.365	7.373	(0.964)	31822	0.93626	76.4242(QM)
22 Benzo(a)pyrene	252	7.579	7.576	(0.992)	41322	1.46862	119.8791
24 Indeno(1,2,3-cd)pyrene	276	8.391	8.388	(1.099)	30458	1.29216	105.4754(M)
25 Dibenzo(a,h)anthracene	278	8.418	8.410	(1.102)	12124	0.50178	40.9587
26 Benzo(g,h,i)perylene	276	8.615	8.602	(1.128)	52287	2.06282	168.3821(M)

QC Flag Legend

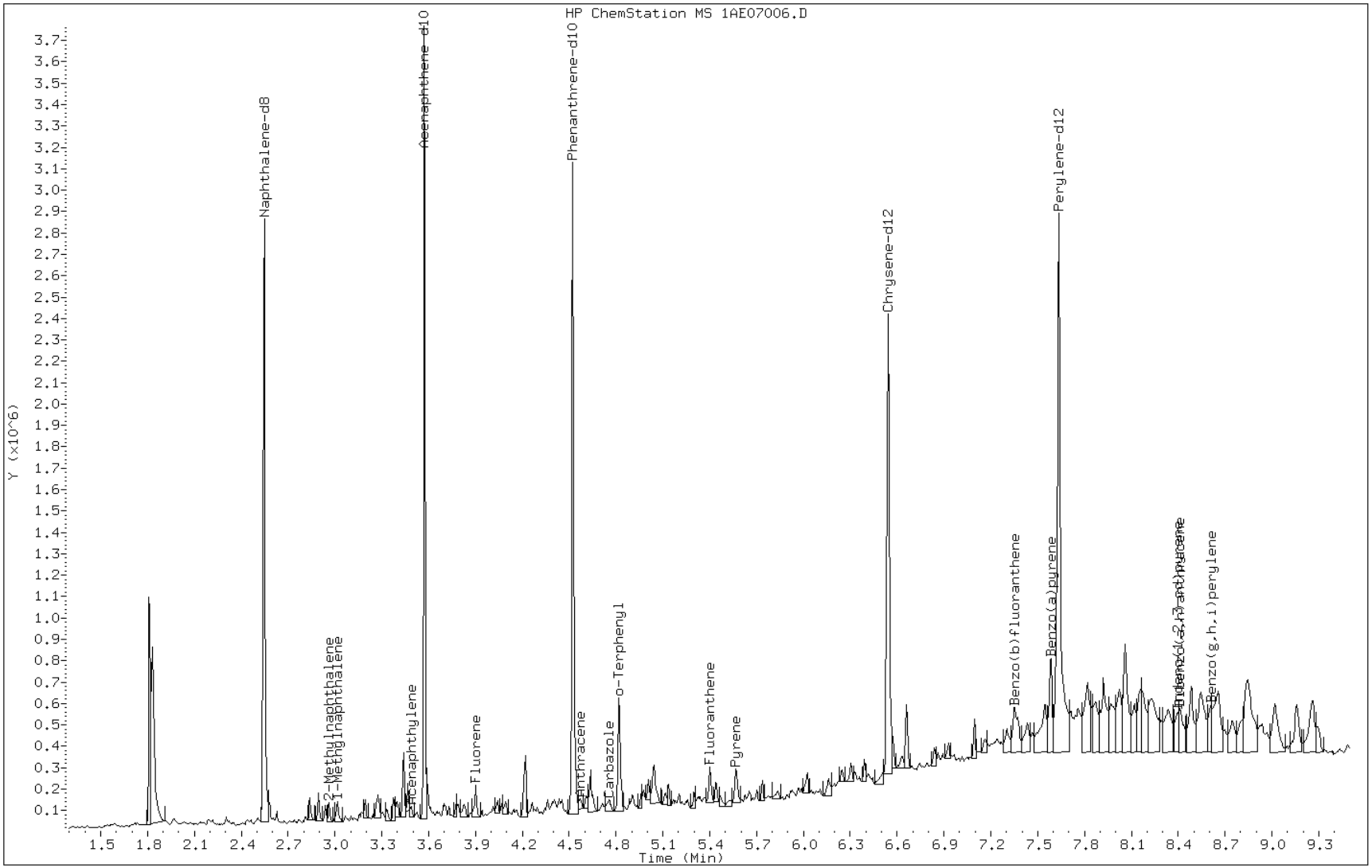
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE07006.D

Date: 07-MAY-2013 13:36

Client ID: CV1067A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-2-a Operator: SCC



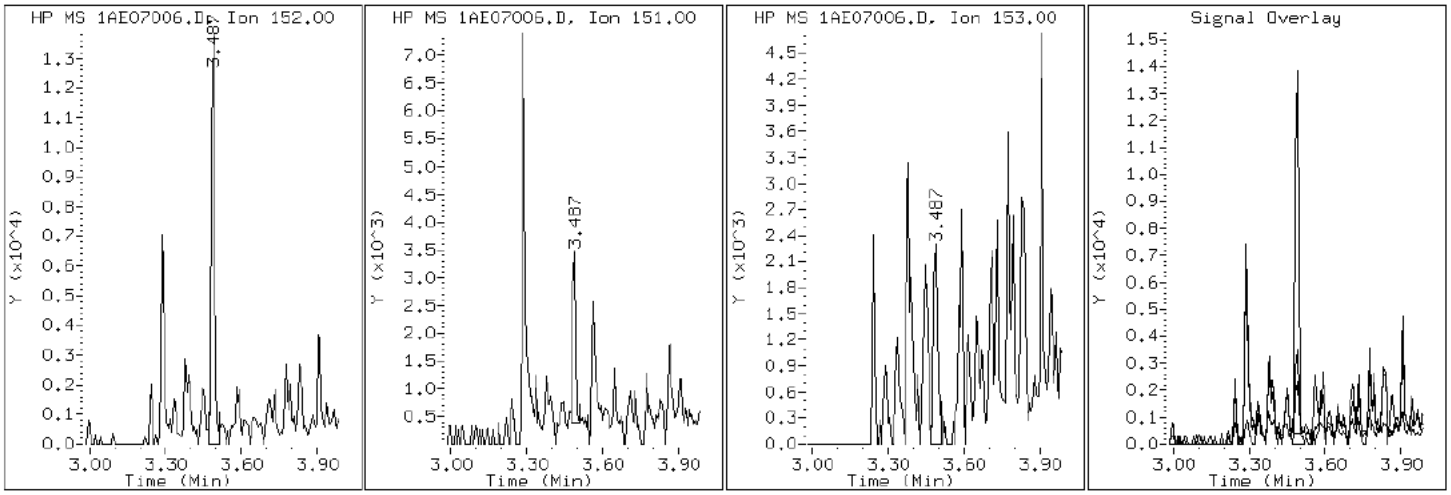
Data File: 1AE07006.D

Date: 07-MAY-2013 13:36

Client ID: CV1067A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-2-a Operator: SCC

5 Acenaphthylene



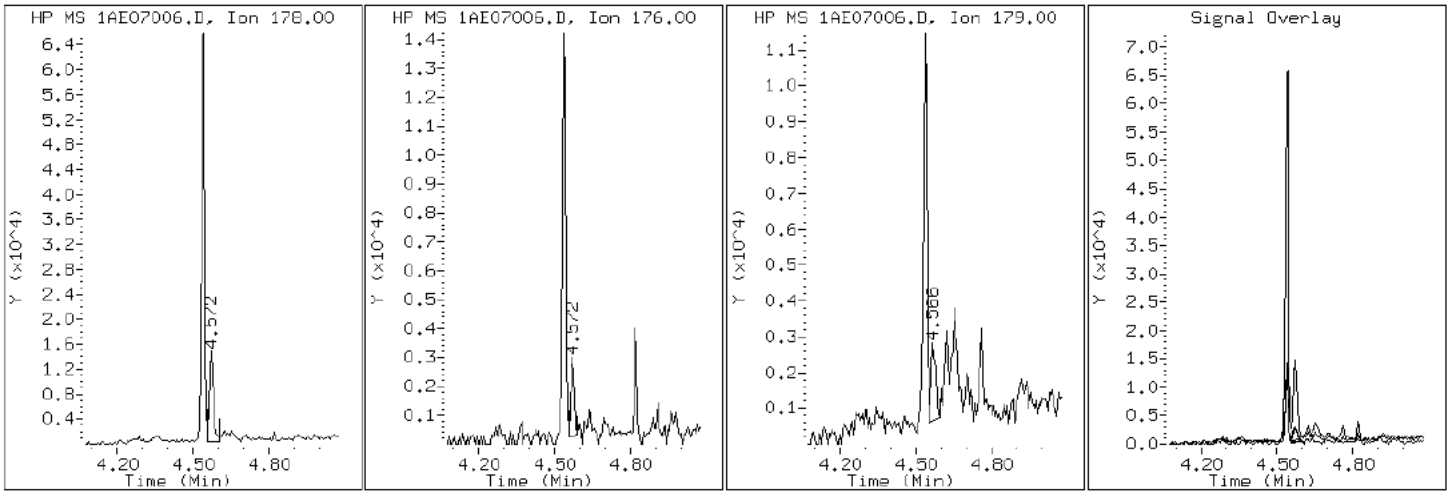
Data File: 1AE07006.D

Date: 07-MAY-2013 13:36

Client ID: CV1067A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-2-a Operator: SCC

12 Anthracene



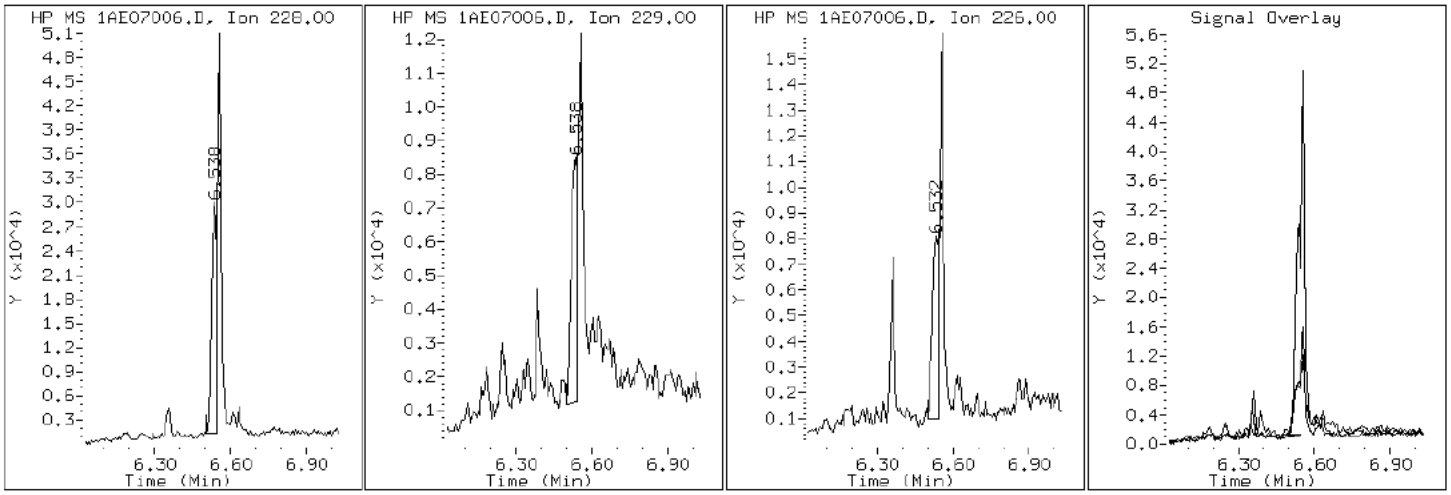
Data File: 1AE07006.D

Date: 07-MAY-2013 13:36

Client ID: CV1067A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-2-a Operator: SCC

17 Benzo(a)anthracene



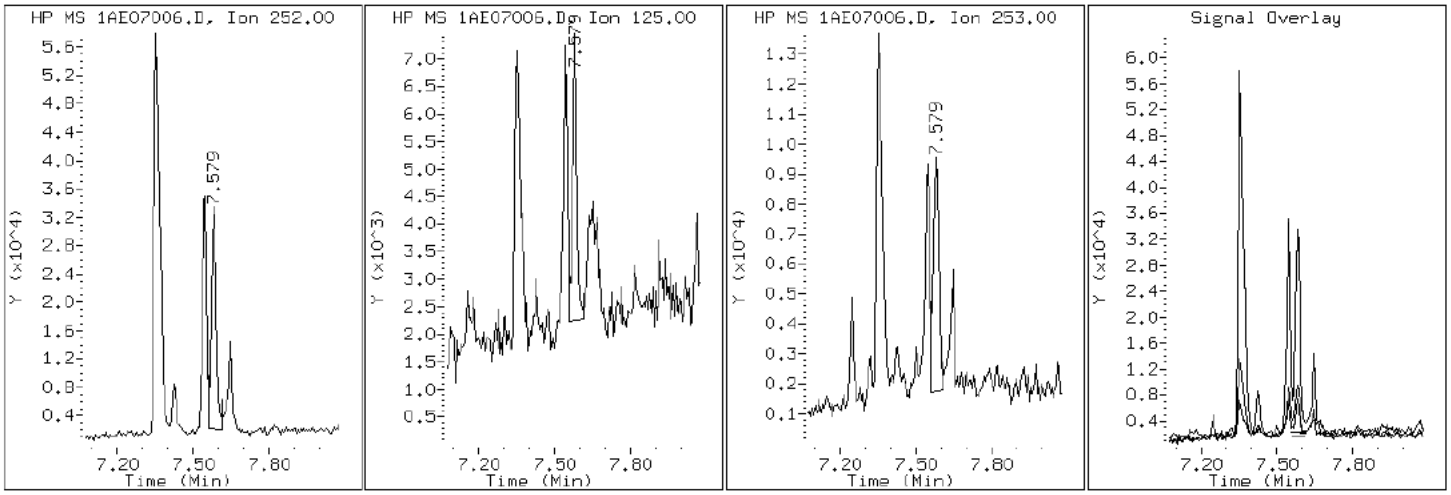
Data File: 1AE07006.D

Date: 07-MAY-2013 13:36

Client ID: CV1067A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-2-a Operator: SCC

22 Benzo(a)pyrene



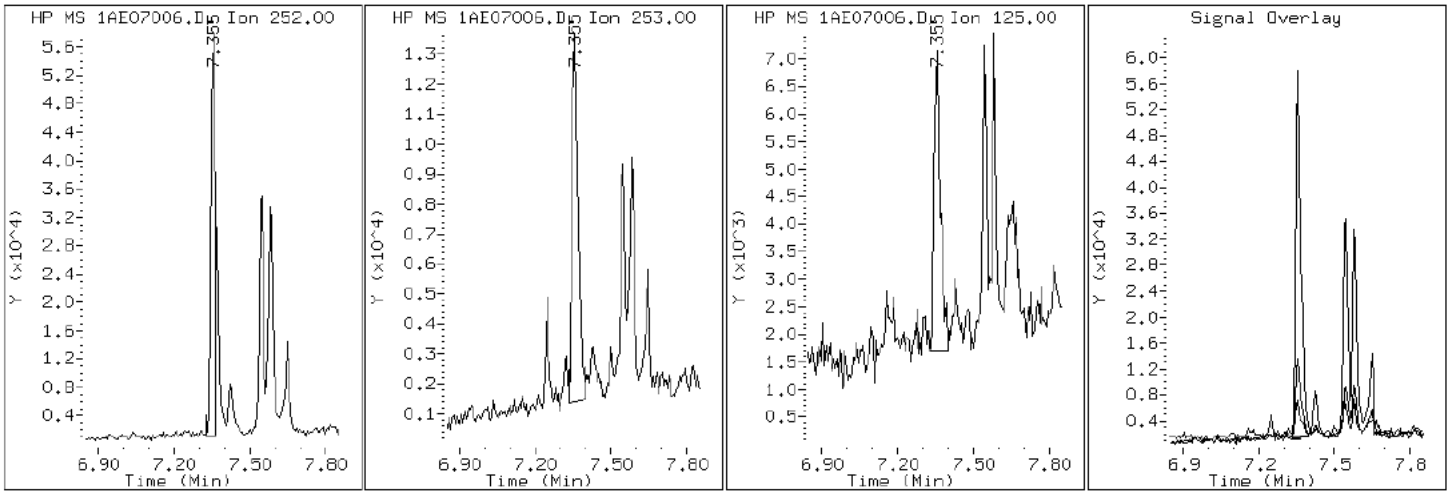
Data File: 1AE07006.D

Date: 07-MAY-2013 13:36

Client ID: CV1067A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-2-a Operator: SCC

20 Benzo(b)fluoranthene



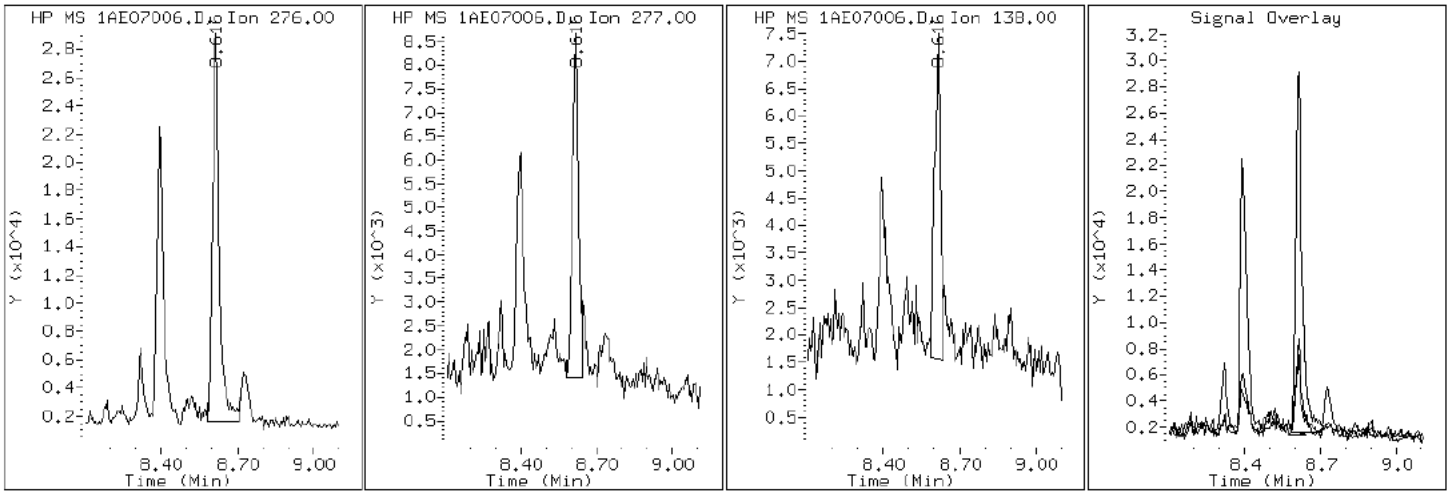
Data File: 1AE07006.D

Date: 07-MAY-2013 13:36

Client ID: CV1067A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-2-a Operator: SCC

26 Benzo(g,h,i)perylene



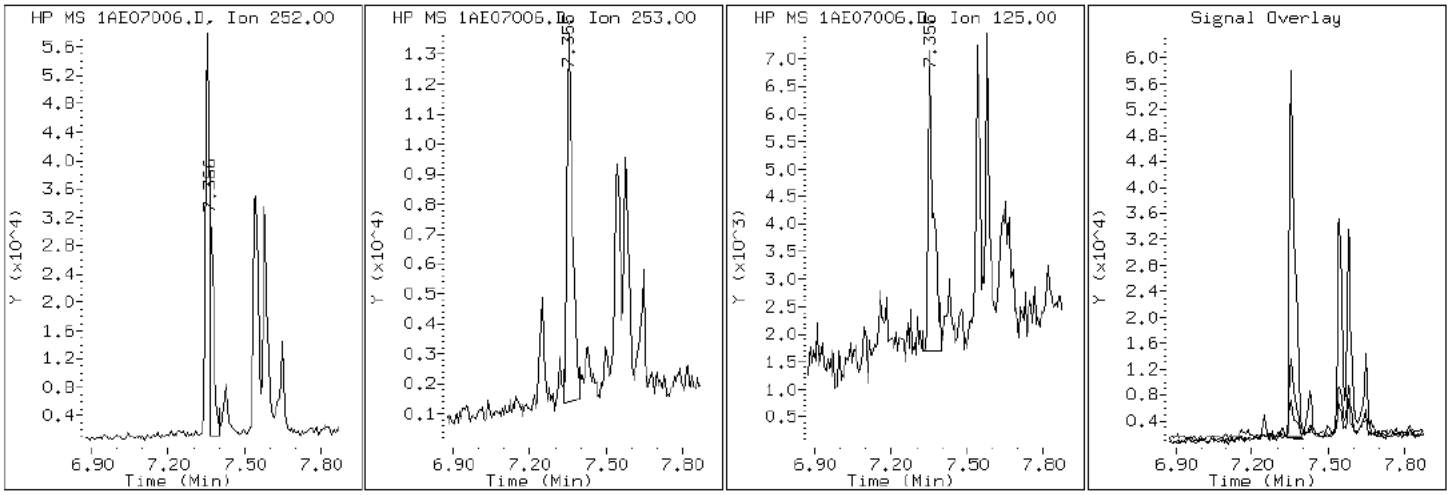
Data File: 1AE07006.D

Date: 07-MAY-2013 13:36

Client ID: CV1067A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-2-a Operator: SCC

21 Benzo(k)fluoranthene



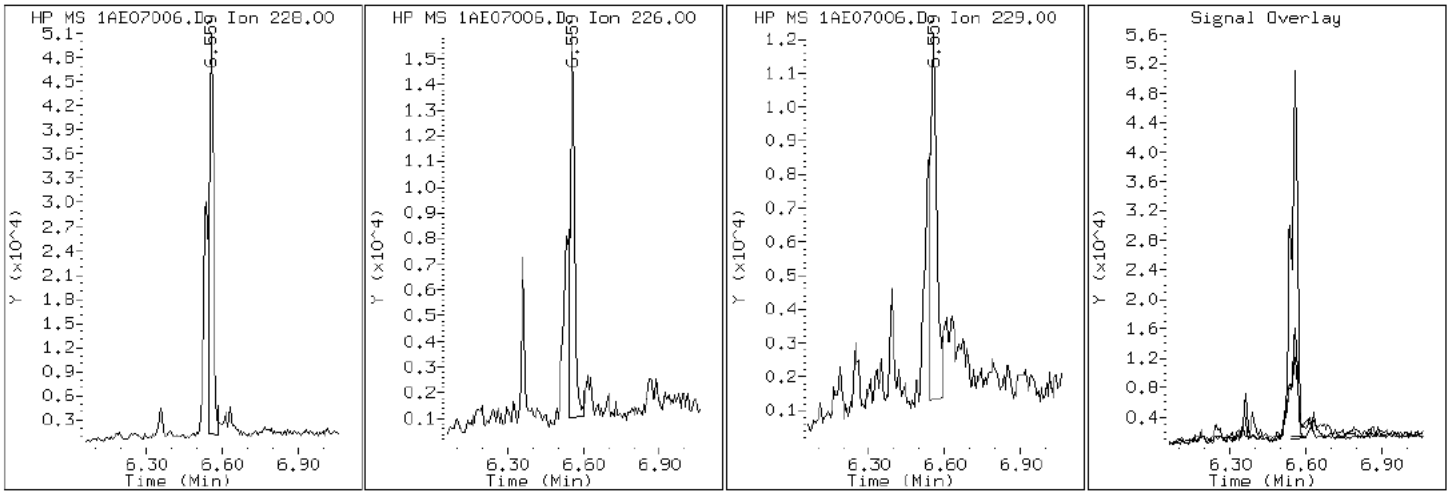
Data File: 1AE07006.D

Date: 07-MAY-2013 13:36

Client ID: CV1067A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-2-a Operator: SCC

19 Chrysene



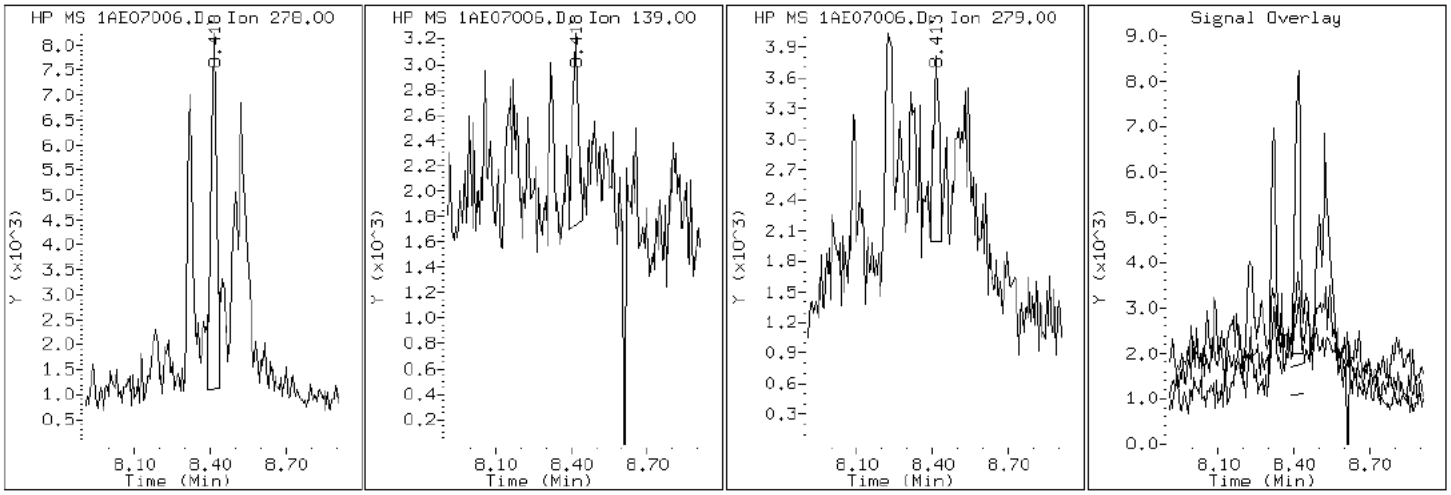
Data File: 1AE07006.D

Date: 07-MAY-2013 13:36

Client ID: CV1067A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-2-a Operator: SCC

25 Dibenzo(a,h)anthracene



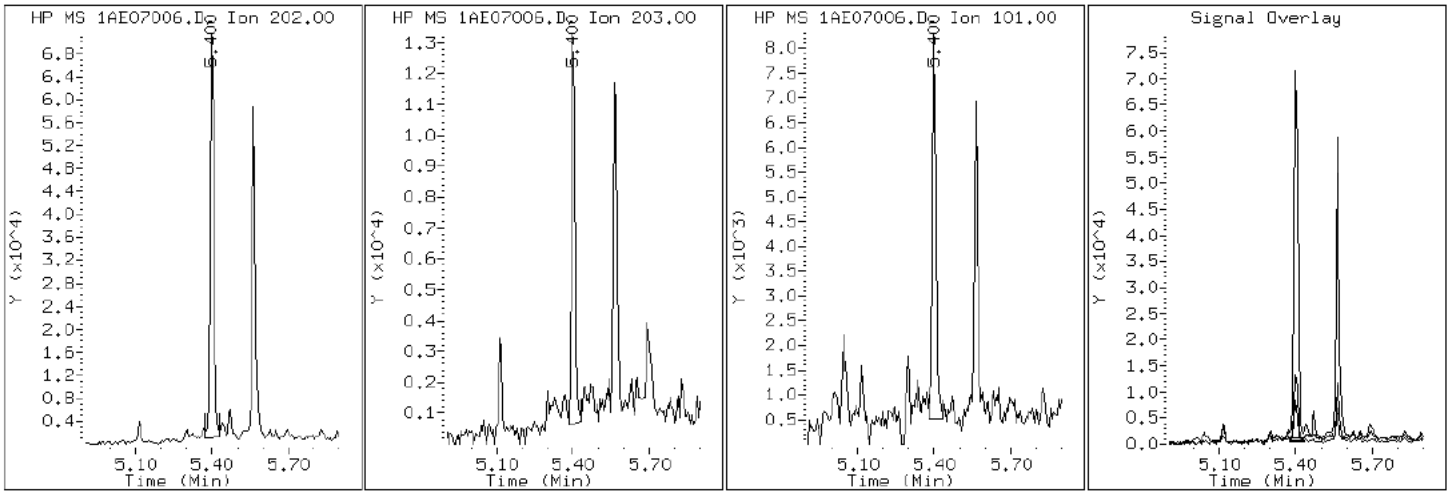
Data File: 1AE07006.D

Date: 07-MAY-2013 13:36

Client ID: CV1067A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-2-a Operator: SCC

15 Fluoranthene



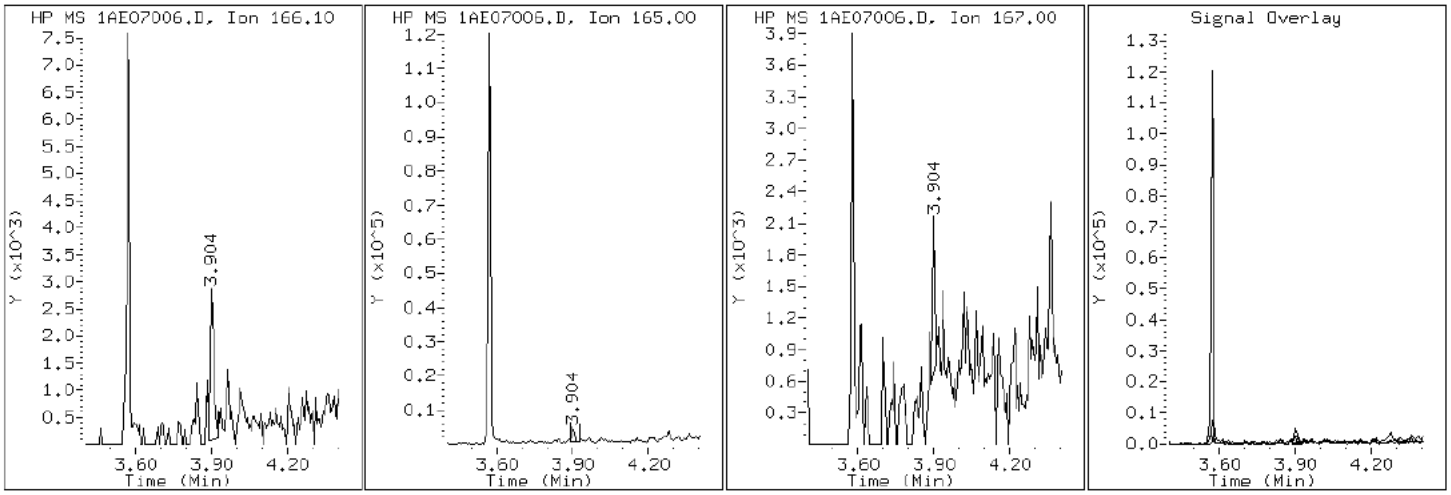
Data File: 1AE07006.D

Date: 07-MAY-2013 13:36

Client ID: CV1067A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-2-a Operator: SCC

9 Fluorene



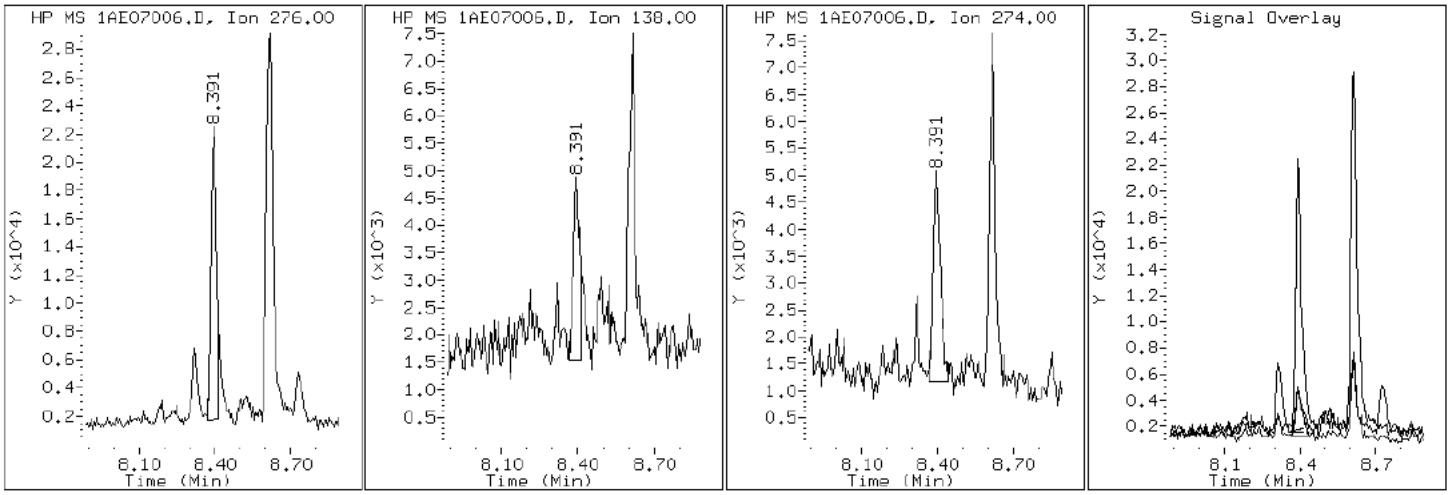
Data File: 1AE07006.D

Date: 07-MAY-2013 13:36

Client ID: CV1067A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-2-a Operator: SCC

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



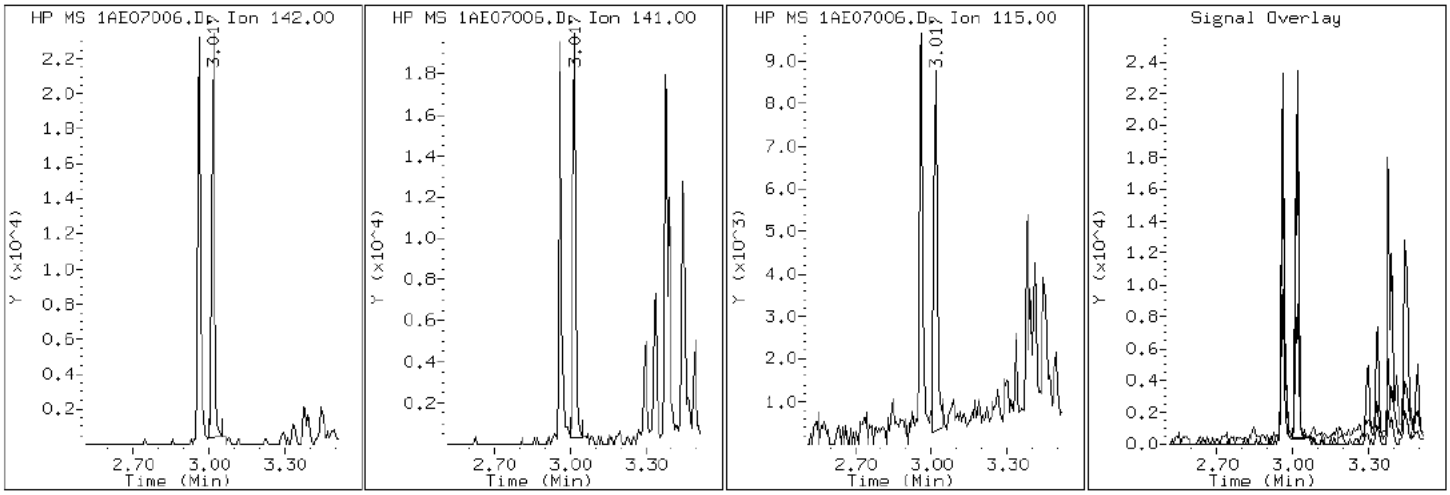
Data File: 1AE07006.D

Date: 07-MAY-2013 13:36

Client ID: CV1067A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-2-a Operator: SCC

4 1-Methylnaphthalene



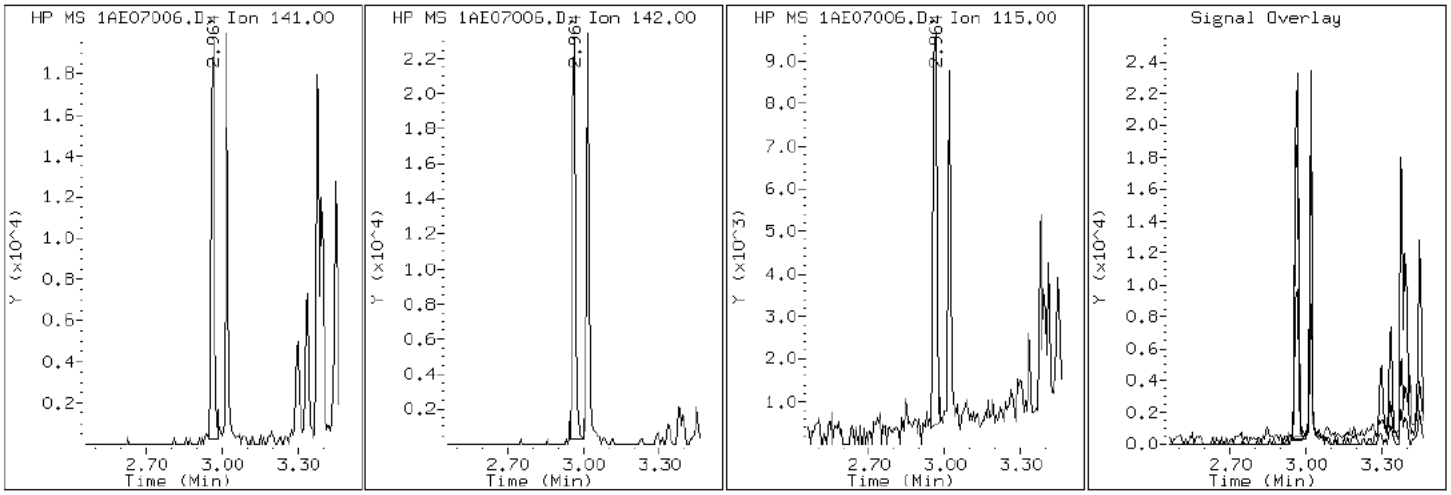
Data File: 1AE07006.D

Date: 07-MAY-2013 13:36

Client ID: CV1067A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-2-a Operator: SCC

3 2-Methylnaphthalene



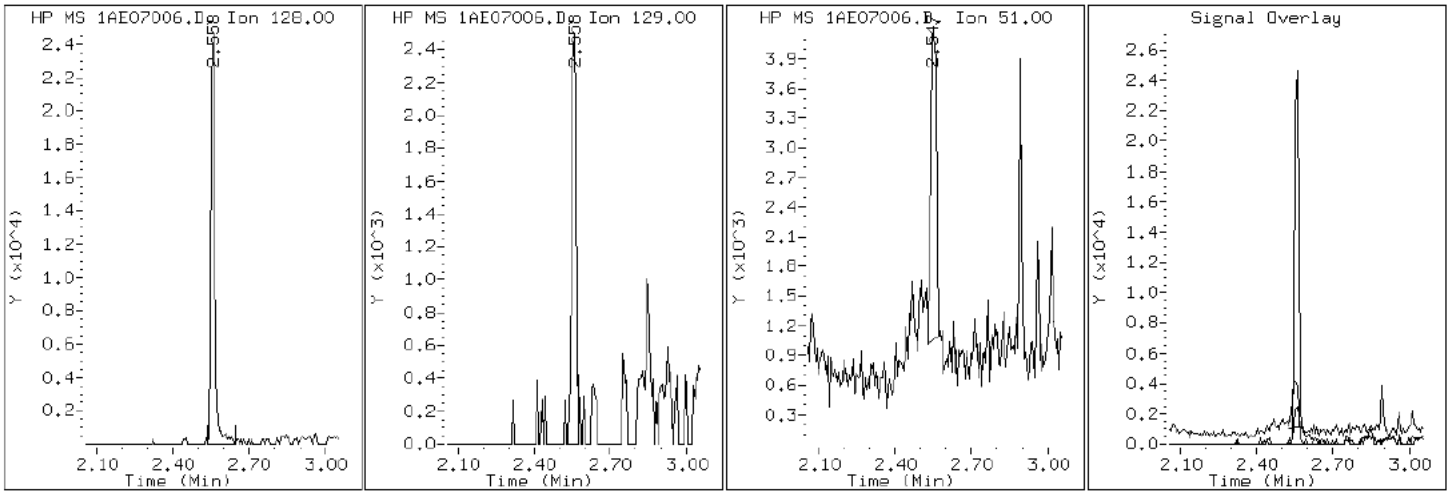
Data File: 1AE07006.D

Date: 07-MAY-2013 13:36

Client ID: CV1067A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-2-a Operator: SCC

2 Naphthalene



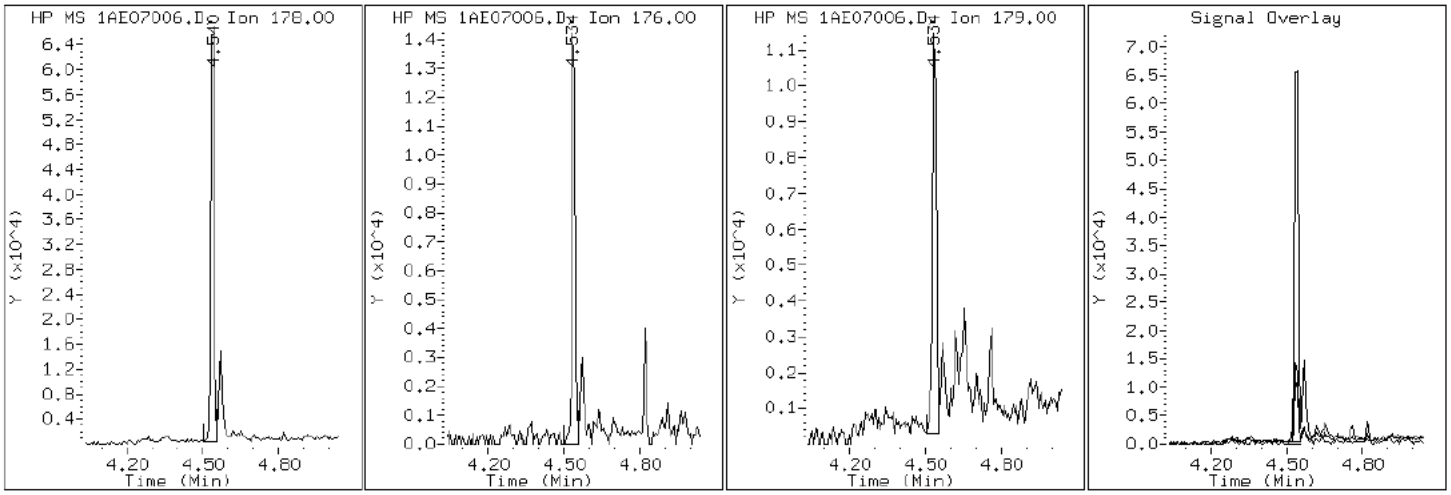
Data File: 1AE07006.D

Date: 07-MAY-2013 13:36

Client ID: CV1067A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-2-a Operator: SCC

11 Phenanthrene



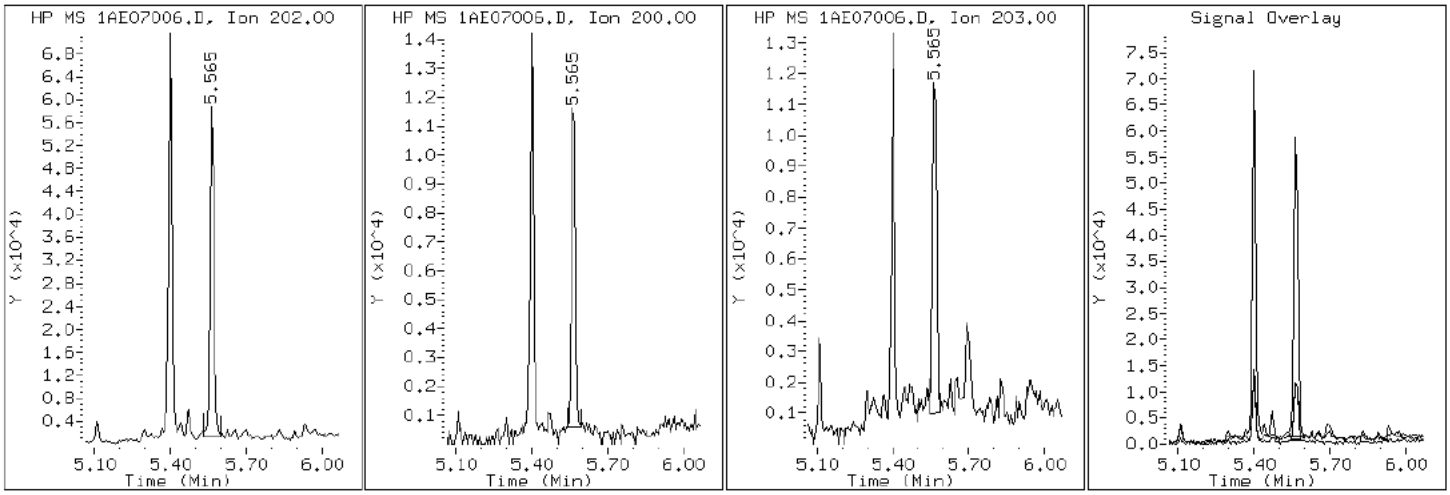
Data File: 1AE07006.D

Date: 07-MAY-2013 13:36

Client ID: CV1067A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-2-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE07006.D
Inj. Date and Time: 07-MAY-2013 13:36
Instrument ID: BSMA5973.i
Client ID: CV1067A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

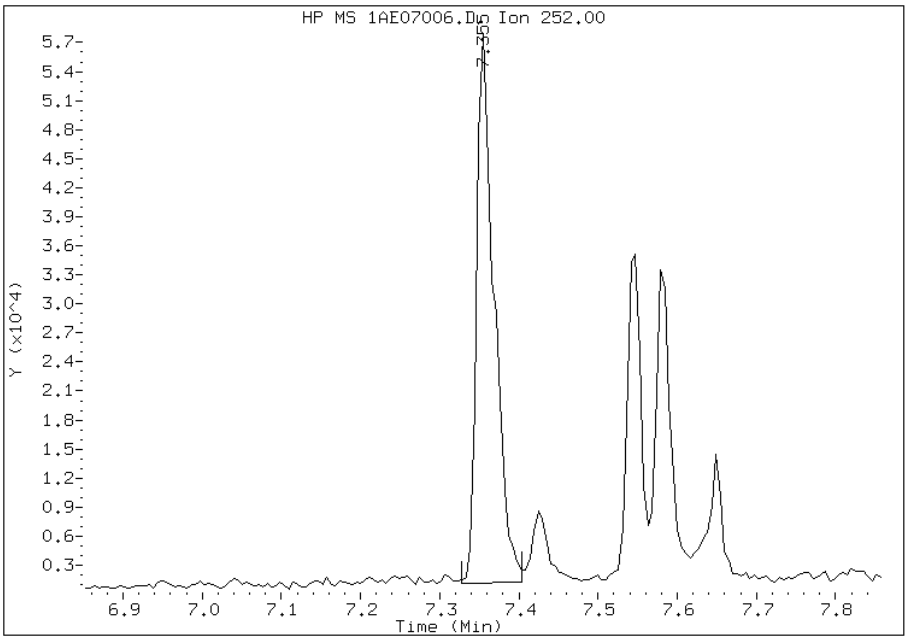
Processing Integration Results

RT: 7.36

Response: 85894

Amount: 3

Conc: 256



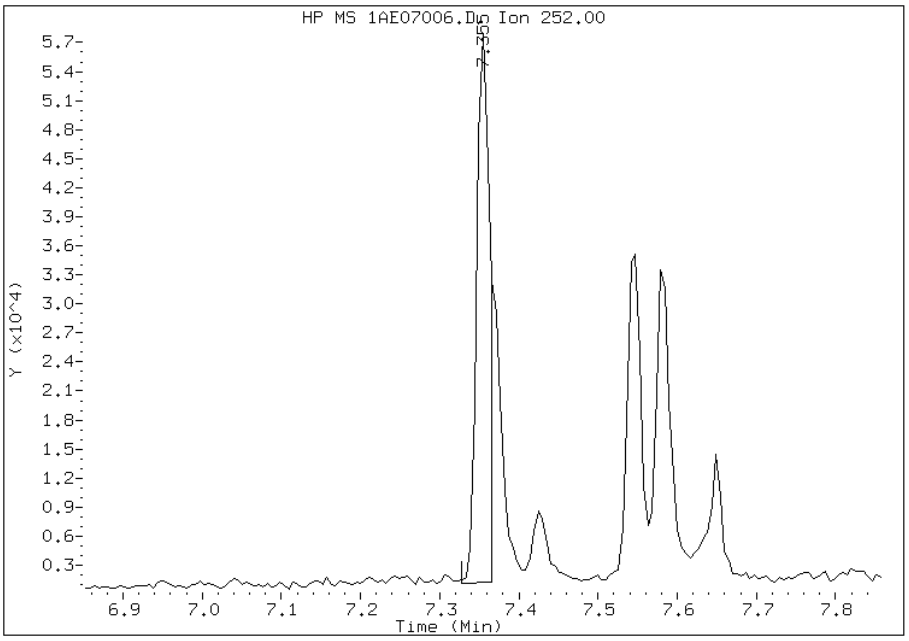
Manual Integration Results

RT: 7.36

Response: 64127

Amount: 2

Conc: 191



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:06
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE07006.D
Inj. Date and Time: 07-MAY-2013 13:36
Instrument ID: BSMA5973.i
Client ID: CV1067A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/09/2013

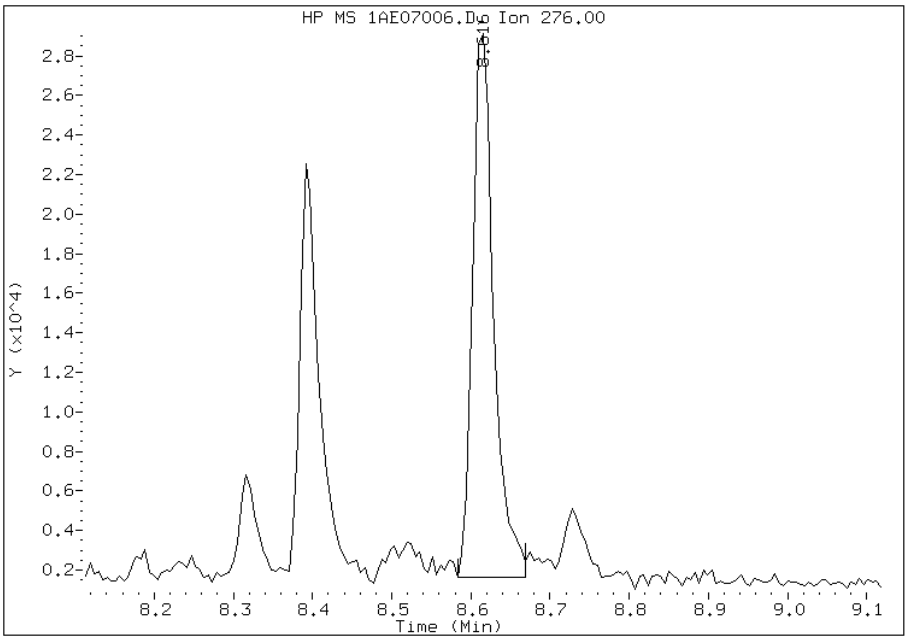
Processing Integration Results

RT: 8.62

Response: 50424

Amount: 2

Conc: 162



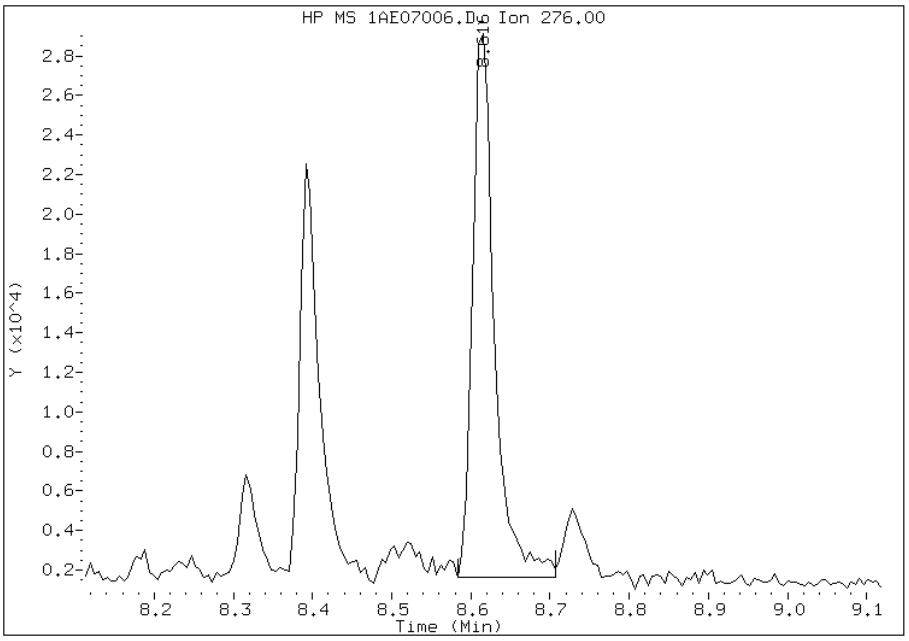
Manual Integration Results

RT: 8.62

Response: 52287

Amount: 2

Conc: 168



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:06
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE07006.D
Inj. Date and Time: 07-MAY-2013 13:36
Instrument ID: BSMA5973.i
Client ID: CV1067A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

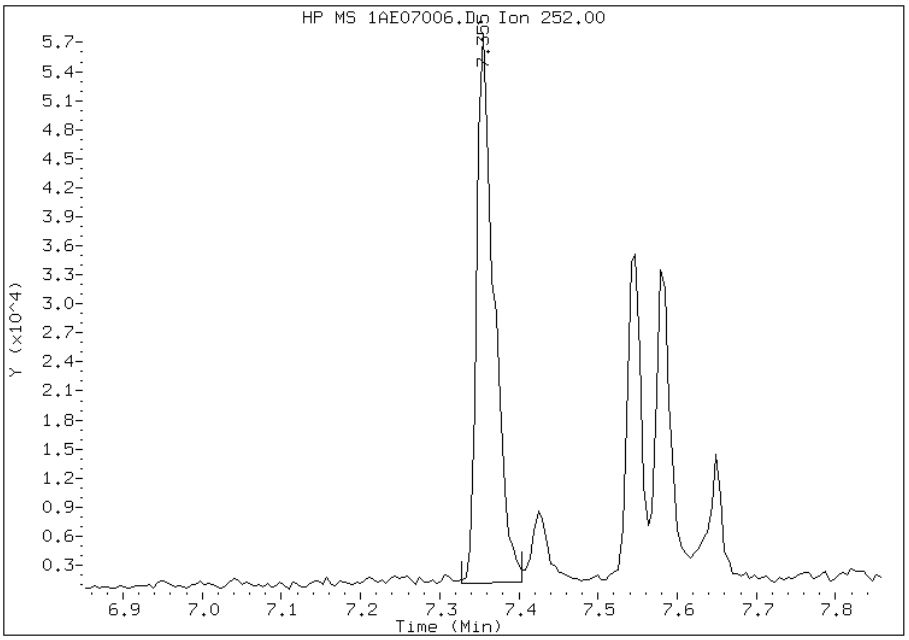
Processing Integration Results

RT: 7.36

Response: 85894

Amount: 3

Conc: 206



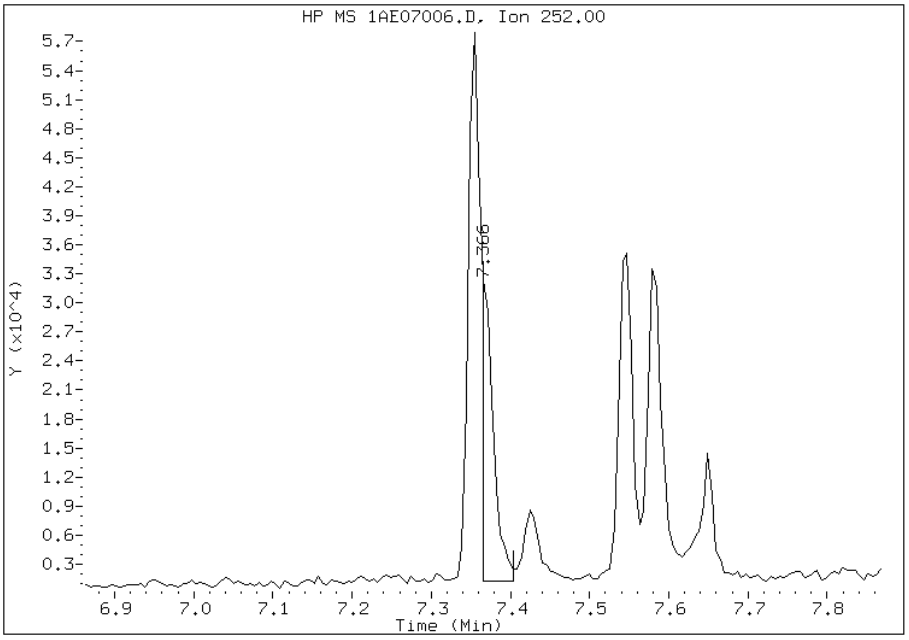
Manual Integration Results

RT: 7.37

Response: 31822

Amount: 1

Conc: 76



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:06
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE07006.D
Inj. Date and Time: 07-MAY-2013 13:36
Instrument ID: BSMA5973.i
Client ID: CV1067A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

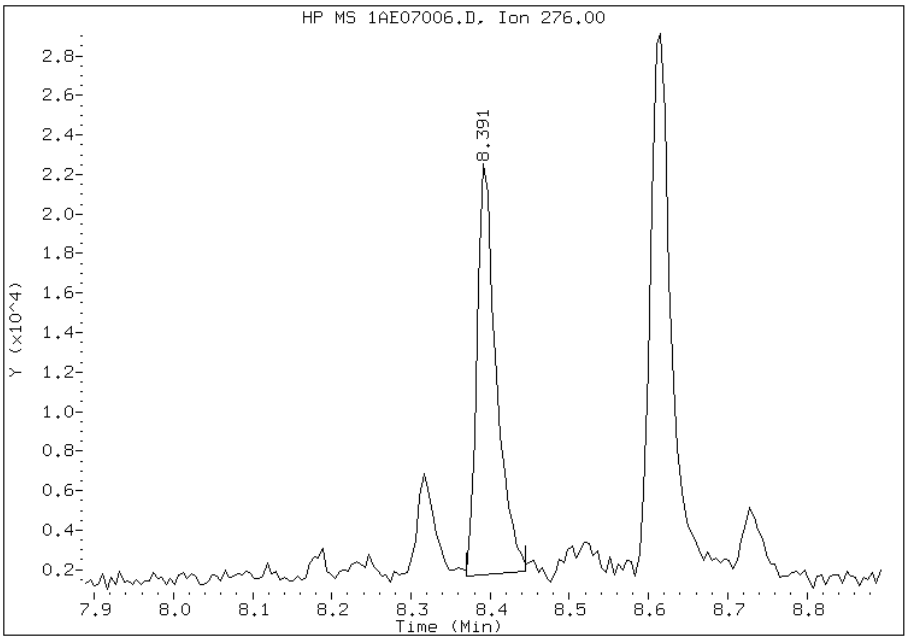
Processing Integration Results

RT: 8.39

Response: 34761

Amount: 1

Conc: 120



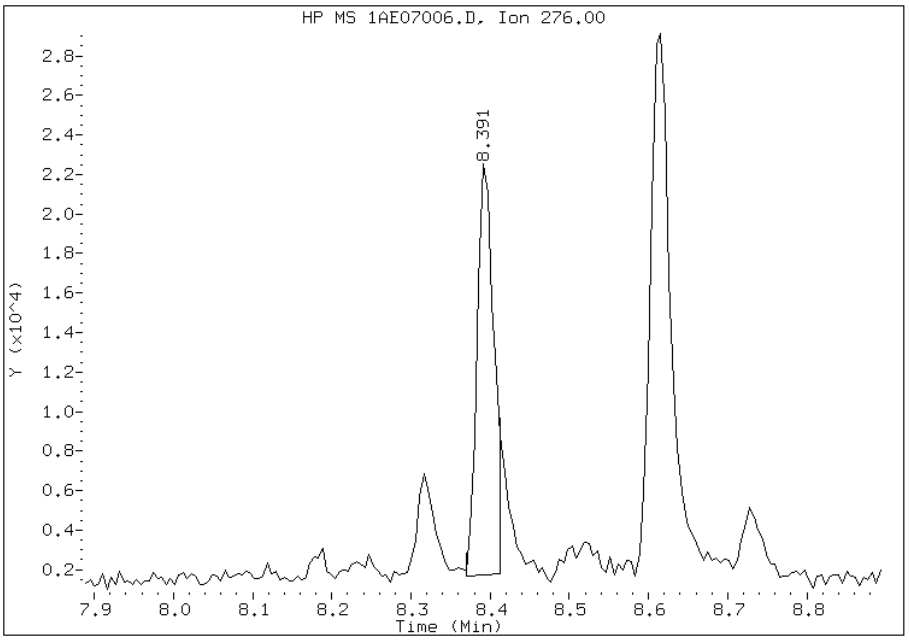
Manual Integration Results

RT: 8.39

Response: 30458

Amount: 1

Conc: 105



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:07
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE07006.D
Inj. Date and Time: 07-MAY-2013 13:36
Instrument ID: BSMA5973.i
Client ID: CV1067A-CS
Compound: 2 Naphthalene
CAS #: 91-20-3
Report Date: 05/09/2013

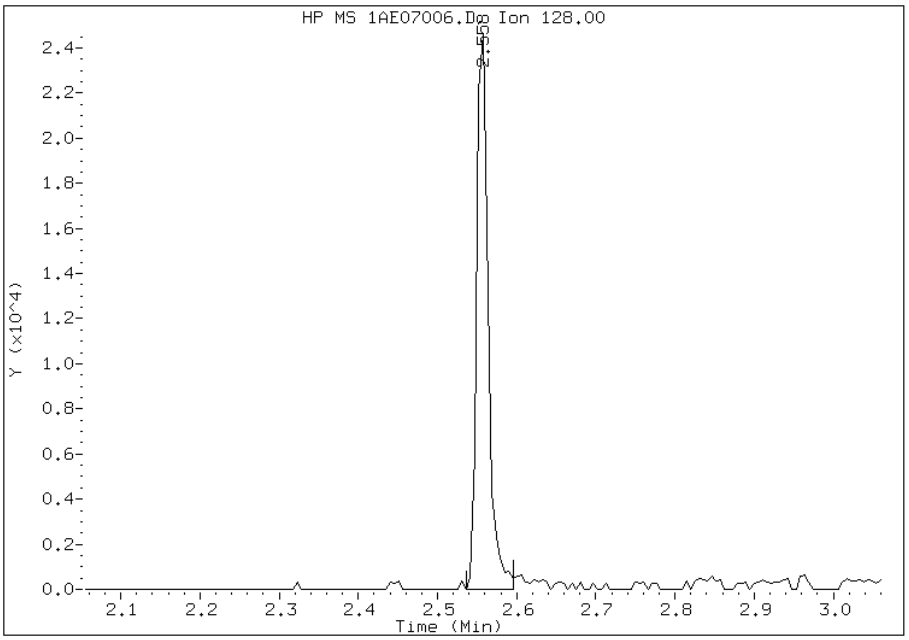
Processing Integration Results

RT: 2.56

Response: 24514

Amount: 1

Conc: 67



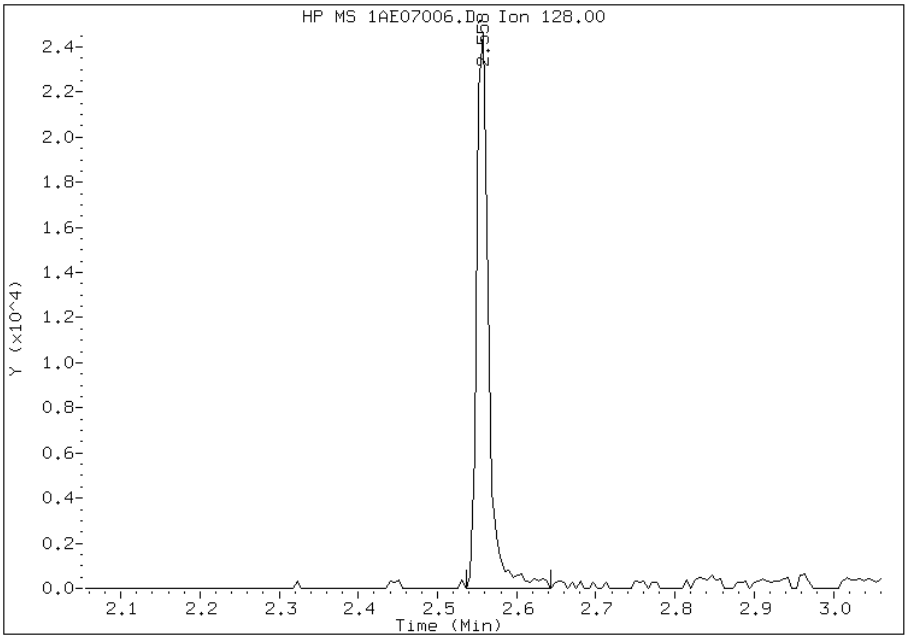
Manual Integration Results

RT: 2.56

Response: 25569

Amount: 1

Conc: 70



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:06
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: CV1067B-CS | Lab Sample ID: 680-89985-3

Matrix: Solid | Lab File ID: 1AE07009.D

Analysis Method: 8270C LL | Date Collected: 05/01/2013 10:50

Extract. Method: 3546 | Date Extracted: 05/06/2013 08:14

Sample wt/vol: 15.20(g) | Date Analyzed: 05/07/2013 14:21

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

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

% Moisture: 26.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137194 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	50	J	54	6.7
120-12-7	Anthracene	97		11	5.6
56-55-3	Benzo[a]anthracene	220	F	11	5.2
50-32-8	Benzo[a]pyrene	230	F	14	7.0
205-99-2	Benzo[b]fluoranthene	450	F	16	8.2
191-24-2	Benzo[g,h,i]perylene	200		27	5.9
207-08-9	Benzo[k]fluoranthene	170	F	11	4.8
218-01-9	Chrysene	410	F	12	6.1
53-70-3	Dibenz(a,h)anthracene	54		27	5.5
206-44-0	Fluoranthene	670	F	27	5.4
86-73-7	Fluorene	19	J	27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	180		27	9.5
90-12-0	1-Methylnaphthalene	140		54	5.9
91-57-6	2-Methylnaphthalene	140		54	9.5
91-20-3	Naphthalene	100	F	54	5.9
85-01-8	Phenanthrene	580		11	5.2
129-00-0	Pyrene	420	F	27	5.0

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\1A050713.b\1AE07009.D
Lab Smp Id: 680-89985-A-3-A Client Smp ID: CV1067B-CS
Inj Date : 07-MAY-2013 14:21
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89985-A-3-A
Misc Info : 680-89985-A-3-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\a-bFASTPAHi-m.m
Meth Date : 07-May-2013 13:04 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.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	15.200	Weight Extracted
M	27.000	% 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	2.549	2.544	(1.000)	1676388	40.0000	
* 6 Acenaphthene-d10	164	3.580	3.575	(1.000)	833606	40.0000	
* 10 Phenanthrene-d10	188	4.530	4.526	(1.000)	1182572	40.0000	
$ 14 o-Terphenyl	230	4.824	4.820	(1.065)	80052	4.72976	426.2578
* 18 Chrysene-d12	240	6.560	6.545	(1.000)	1274826	40.0000	
* 23 Perylene-d12	264	7.661	7.630	(1.000)	1684744	40.0000	
2 Naphthalene	128	2.559	2.555	(1.004)	44671	1.13155	101.9786
3 2-Methylnaphthalene	141	2.965	2.961	(1.163)	32450	1.61740	145.7642
4 1-Methylnaphthalene	142	3.019	3.014	(1.184)	38611	1.60559	144.7002
5 Acenaphthylene	152	3.489	3.484	(0.975)	21684	0.55358	49.8902
9 Fluorene	166	3.905	3.906	(1.091)	5437	0.21209	19.1141
11 Phenanthrene	178	4.541	4.537	(1.002)	189964	6.48402	584.3563
12 Anthracene	178	4.579	4.574	(1.011)	33657	1.07846	97.1937
13 Carbazole	167	4.717	4.707	(1.041)	22933	0.81729	73.6559

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	5.412	5.402	(1.195)	253504	7.52150	677.8564
16 Pyrene	202	5.578	5.568	(0.850)	192212	4.69064	422.7326
17 Benzo(a)anthracene	228	6.555	6.529	(0.999)	87588	2.44467	220.3202
19 Chrysene	228	6.576	6.561	(1.002)	186509	4.62666	416.9661
20 Benzo(b)fluoranthene	252	7.372	7.352	(0.962)	223249	5.01338	451.8189(M)
21 Benzo(k)fluoranthene	252	7.383	7.373	(0.964)	104385	1.88952	170.2888(M)
22 Benzo(a)pyrene	252	7.597	7.576	(0.992)	114894	2.51229	226.4143
24 Indeno(1,2,3-cd)pyrene	276	8.420	8.388	(1.099)	77817	2.03112	183.0495(M)
25 Dibenzo(a,h)anthracene	278	8.436	8.410	(1.101)	23665	0.60258	54.3064
26 Benzo(g,h,i)perylene	276	8.639	8.602	(1.128)	93450	2.26826	204.4211(M)

QC Flag Legend

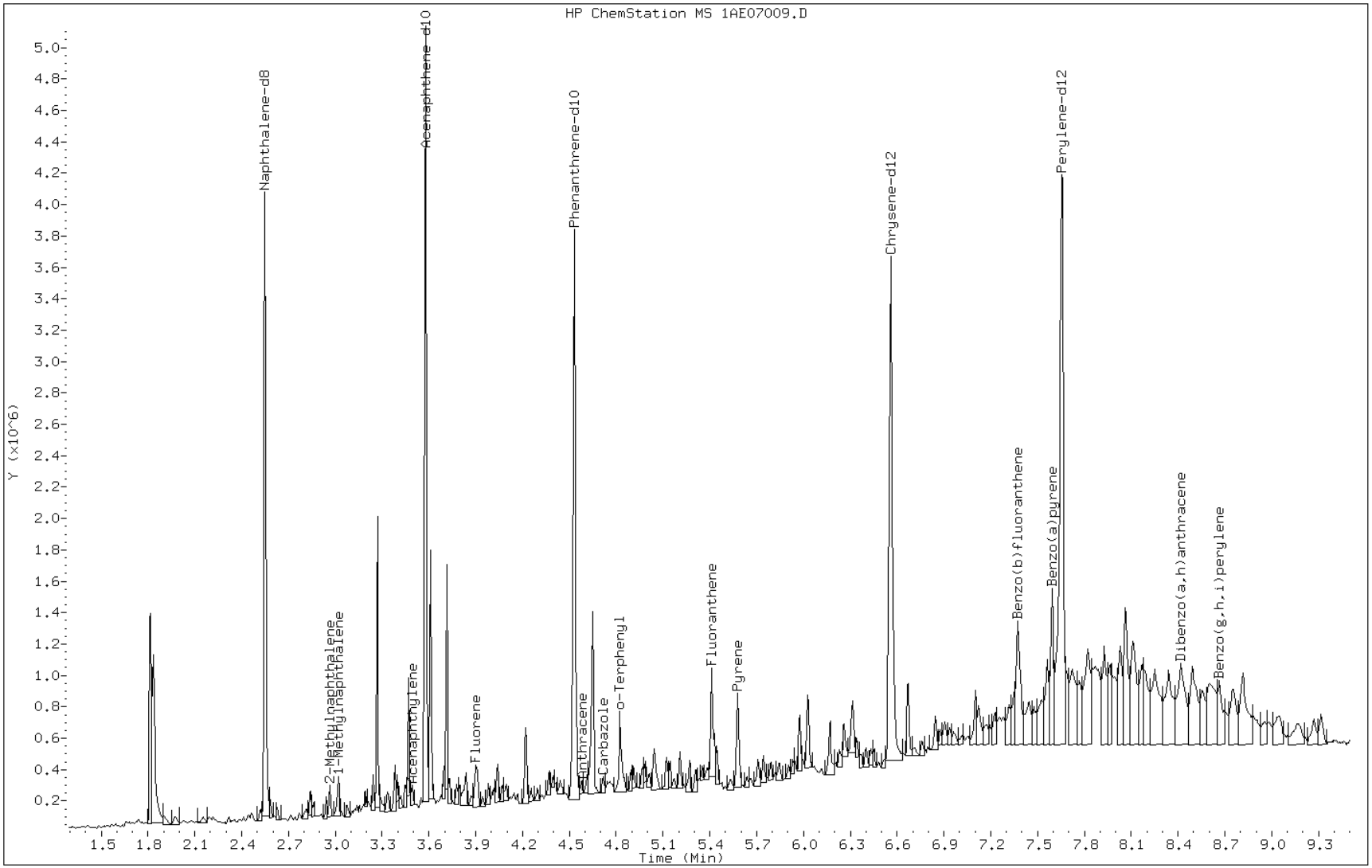
M - Compound response manually integrated.

Data File: 1AE07009.D

Date: 07-MAY-2013 14:21

Client ID: CV1067B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-A-3-A Operator: SCC



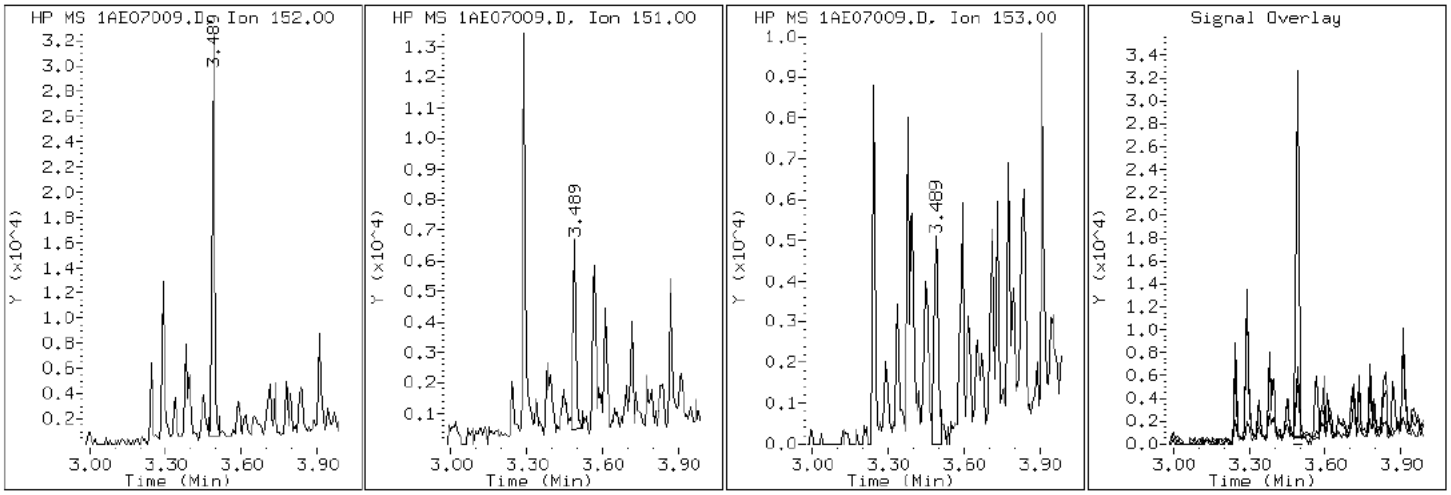
Data File: 1AE07009.D

Date: 07-MAY-2013 14:21

Client ID: CV1067B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-A-3-A Operator: SCC

5 Acenaphthylene



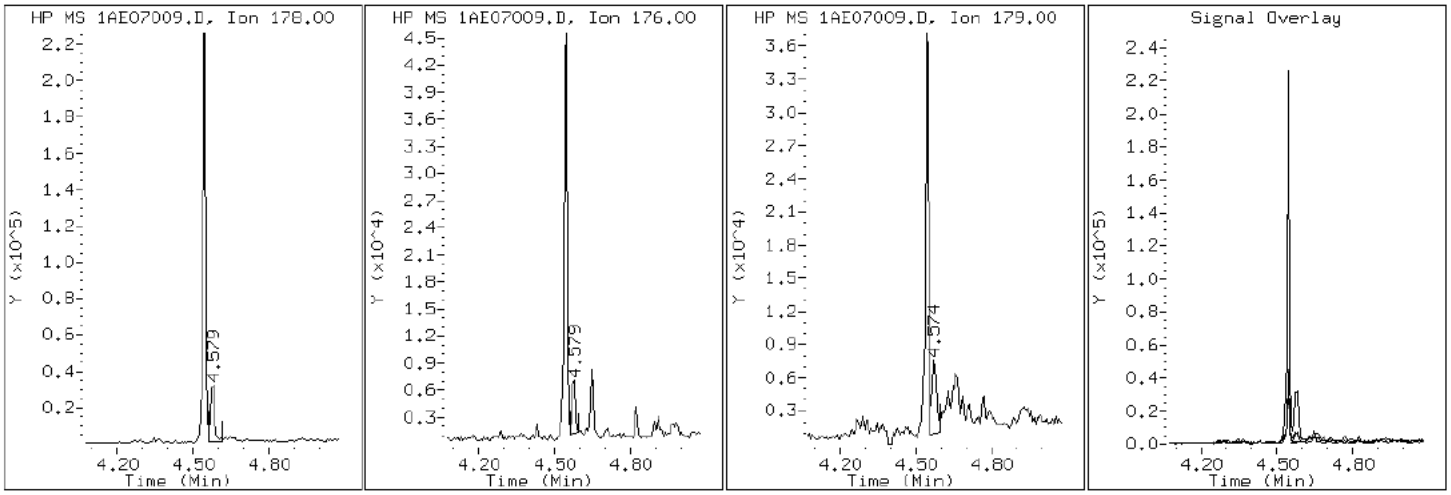
Data File: 1AE07009.D

Date: 07-MAY-2013 14:21

Client ID: CV1067B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-A-3-A Operator: SCC

12 Anthracene



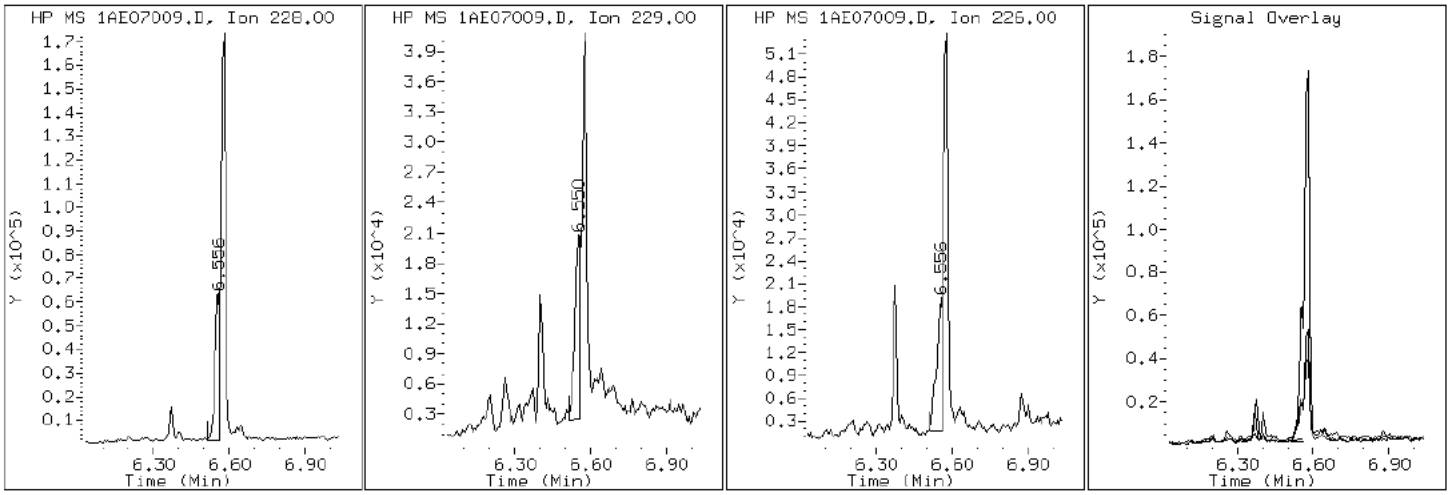
Data File: 1AE07009.D

Date: 07-MAY-2013 14:21

Client ID: CV1067B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-A-3-A Operator: SCC

17 Benzo(a)anthracene



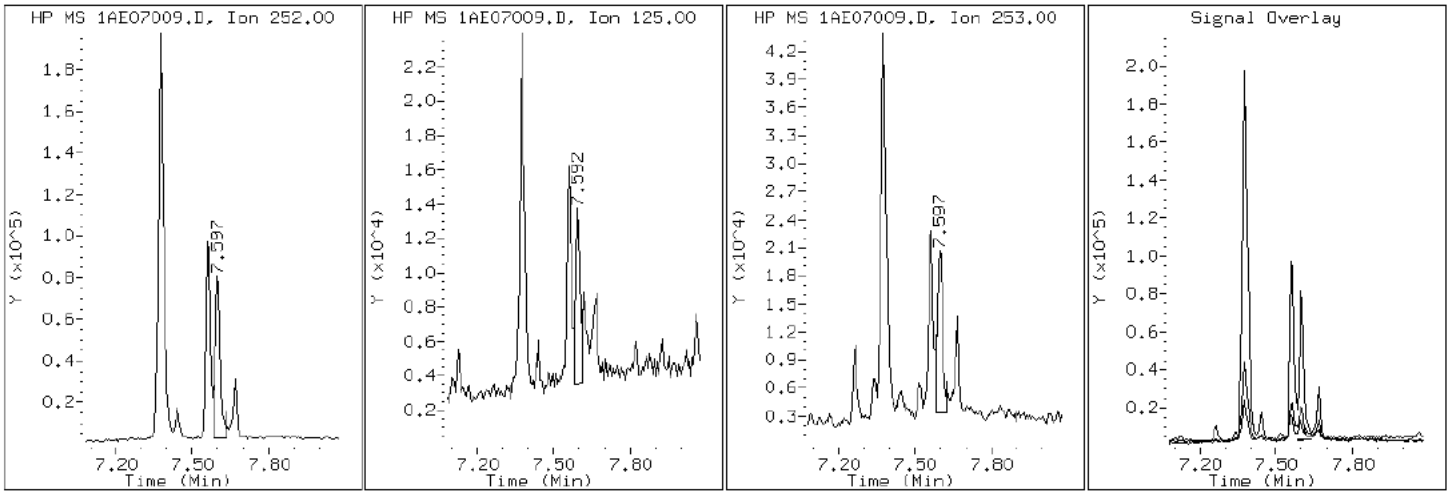
Data File: 1AE07009.D

Date: 07-MAY-2013 14:21

Client ID: CV1067B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-A-3-A Operator: SCC

22 Benzo(a)pyrene



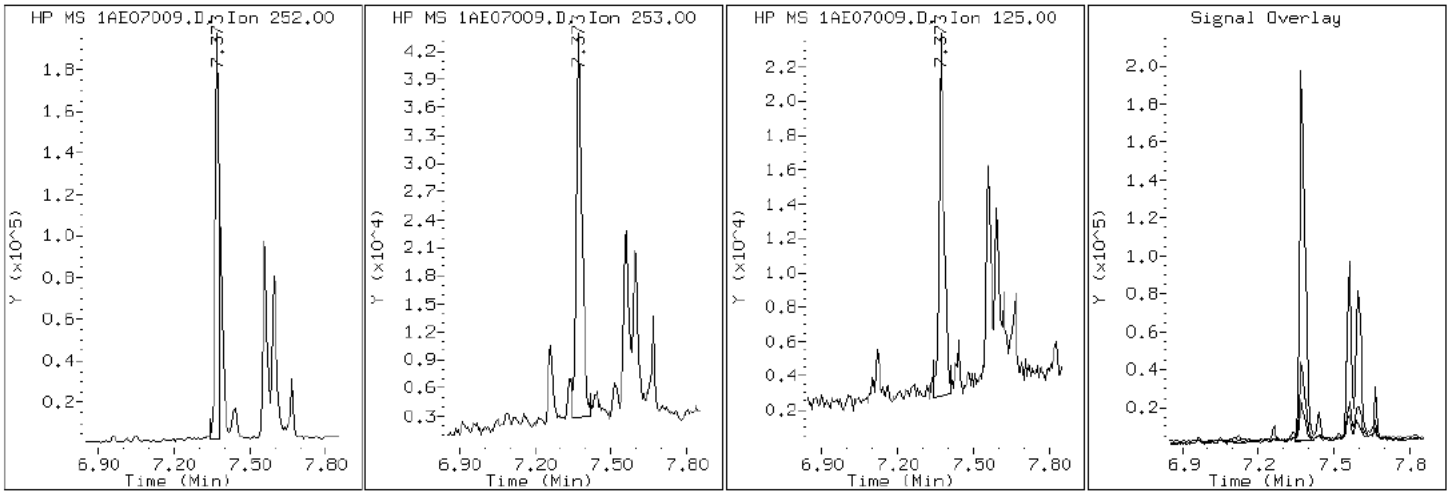
Data File: 1AE07009.D

Date: 07-MAY-2013 14:21

Client ID: CV1067B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-A-3-A Operator: SCC

20 Benzo(b)fluoranthene



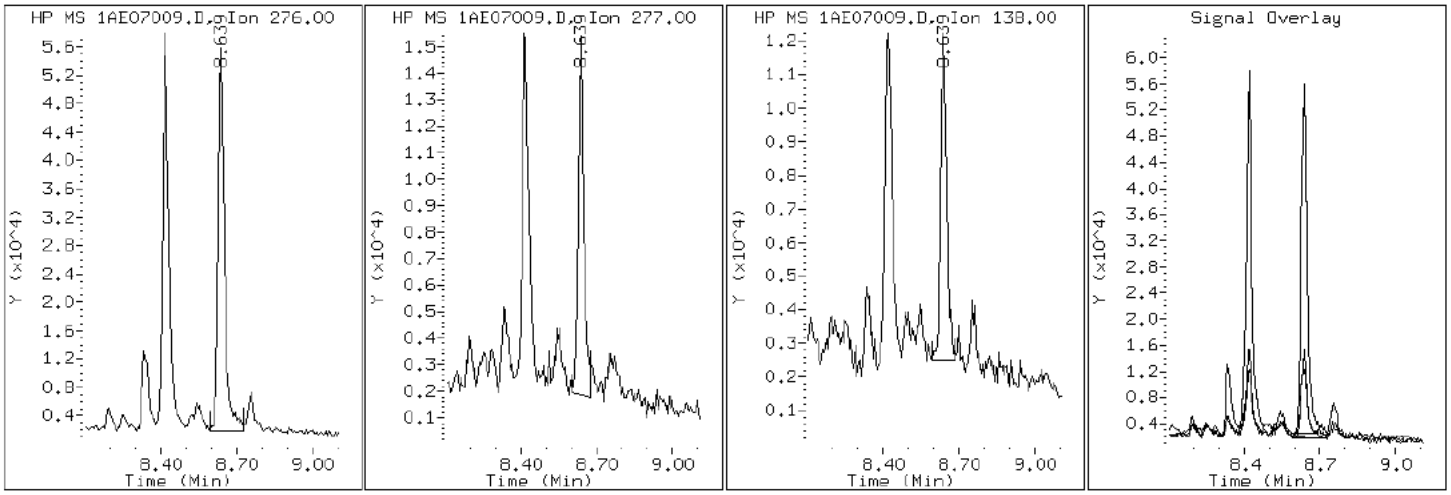
Data File: 1AE07009.D

Date: 07-MAY-2013 14:21

Client ID: CV1067B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-A-3-A Operator: SCC

26 Benzo(g,h,i)perylene



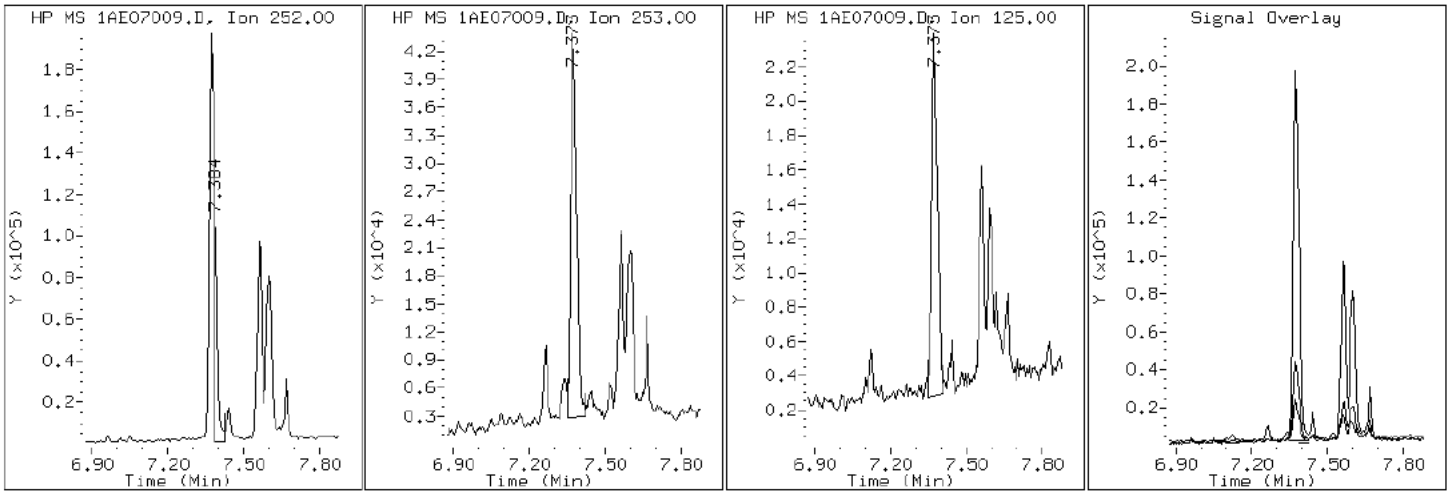
Data File: 1AE07009.D

Date: 07-MAY-2013 14:21

Client ID: CV1067B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-A-3-A Operator: SCC

21 Benzo(k)fluoranthene



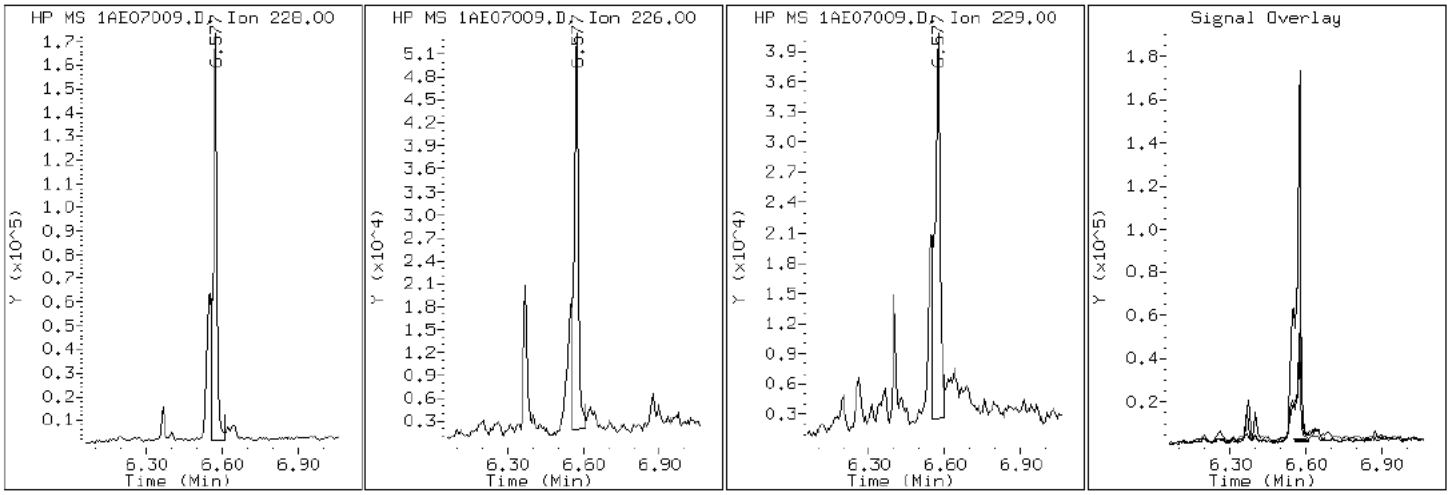
Data File: 1AE07009.D

Date: 07-MAY-2013 14:21

Client ID: CV1067B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-A-3-A Operator: SCC

19 Chrysene



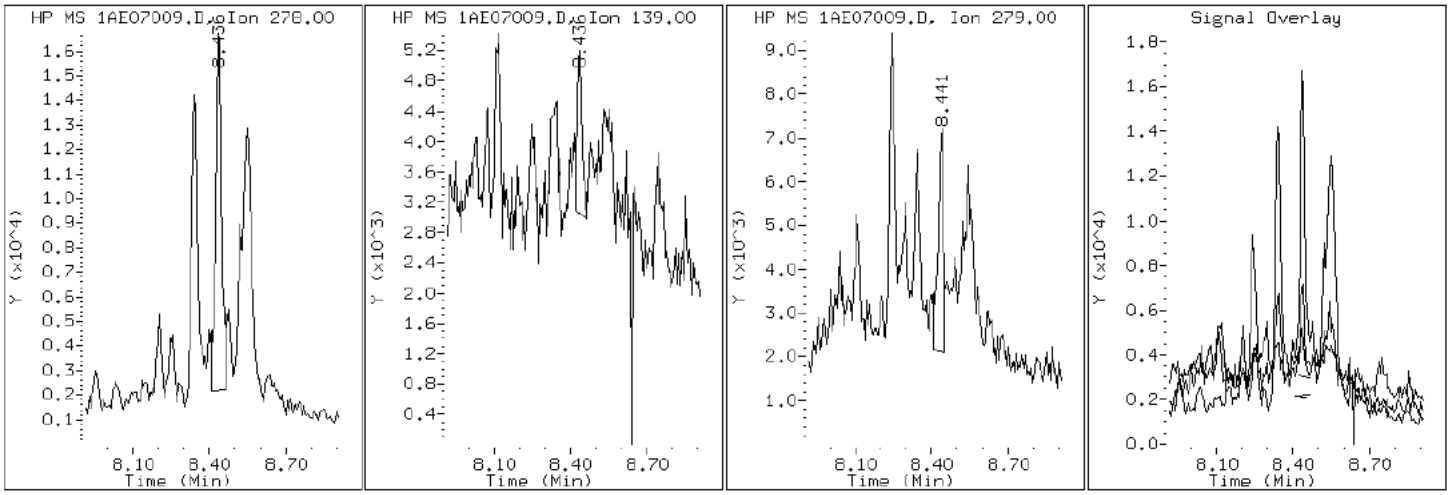
Data File: 1AE07009.D

Date: 07-MAY-2013 14:21

Client ID: CV1067B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-A-3-A Operator: SCC

25 Dibenzo(a,h)anthracene



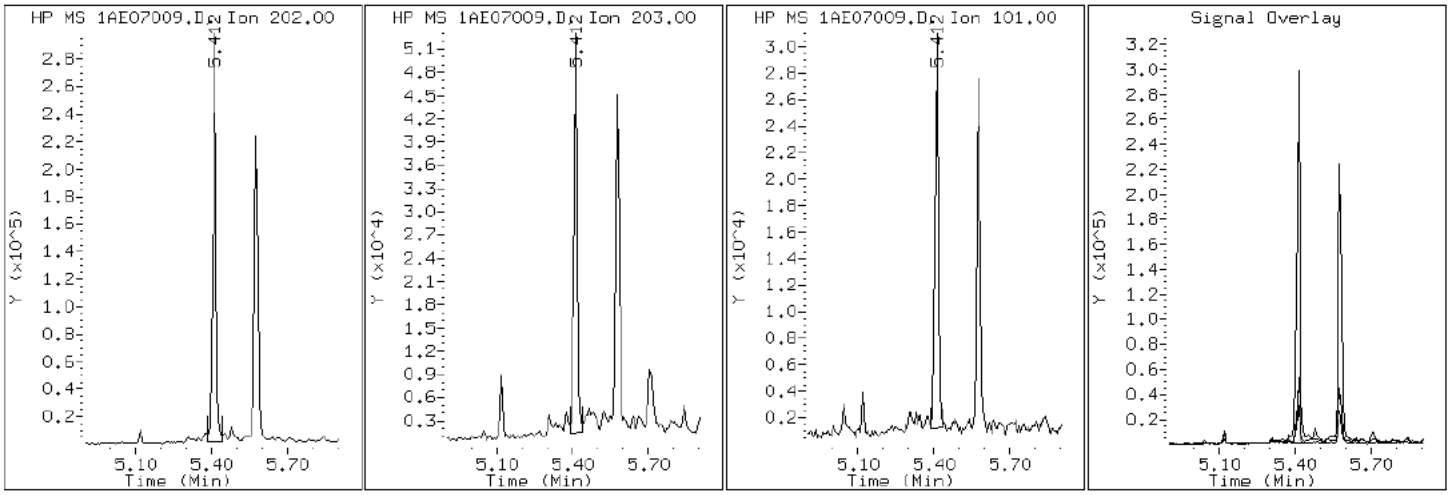
Data File: 1AE07009.D

Date: 07-MAY-2013 14:21

Client ID: CV1067B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-A-3-A Operator: SCC

15 Fluoranthene



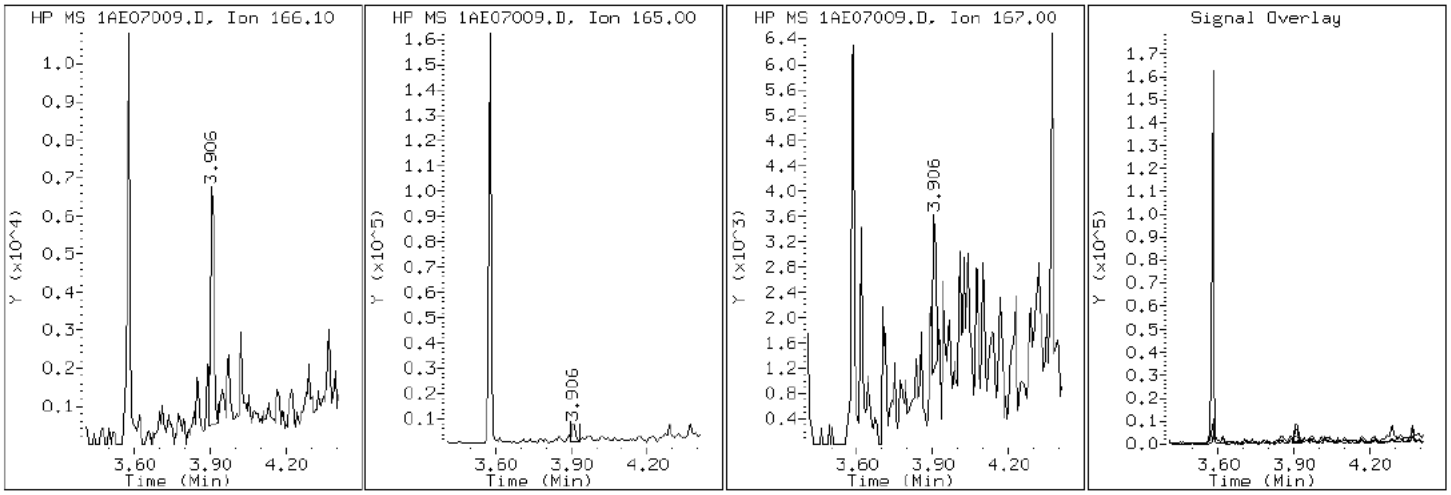
Data File: 1AE07009.D

Date: 07-MAY-2013 14:21

Client ID: CV1067B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-A-3-A Operator: SCC

9 Fluorene



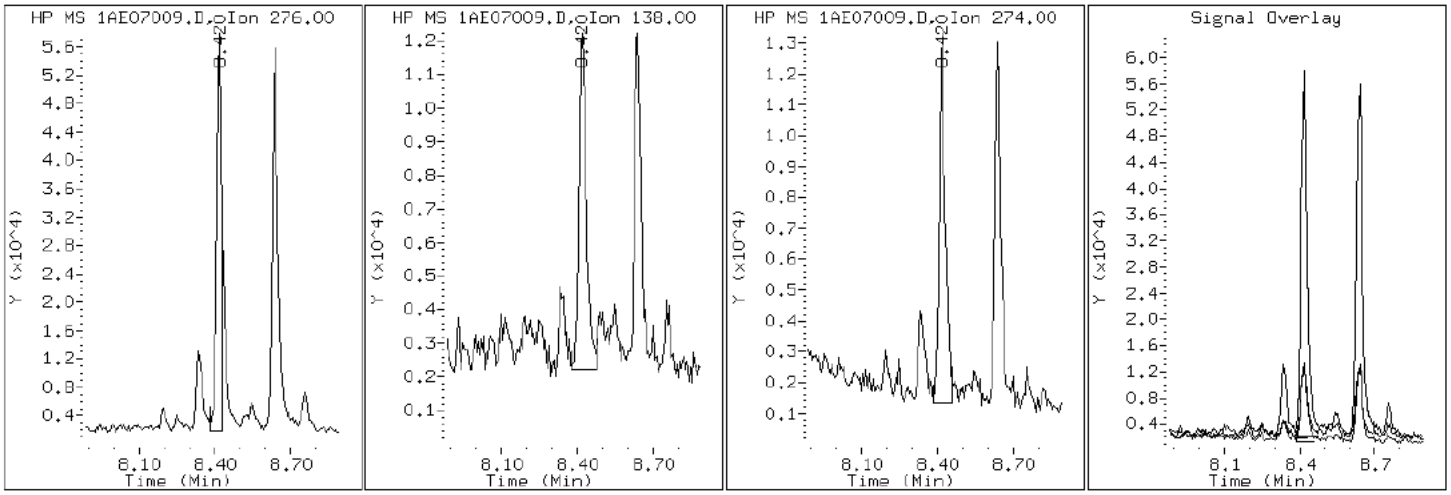
Data File: 1AE07009.D

Date: 07-MAY-2013 14:21

Client ID: CV1067B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-A-3-A Operator: SCC

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



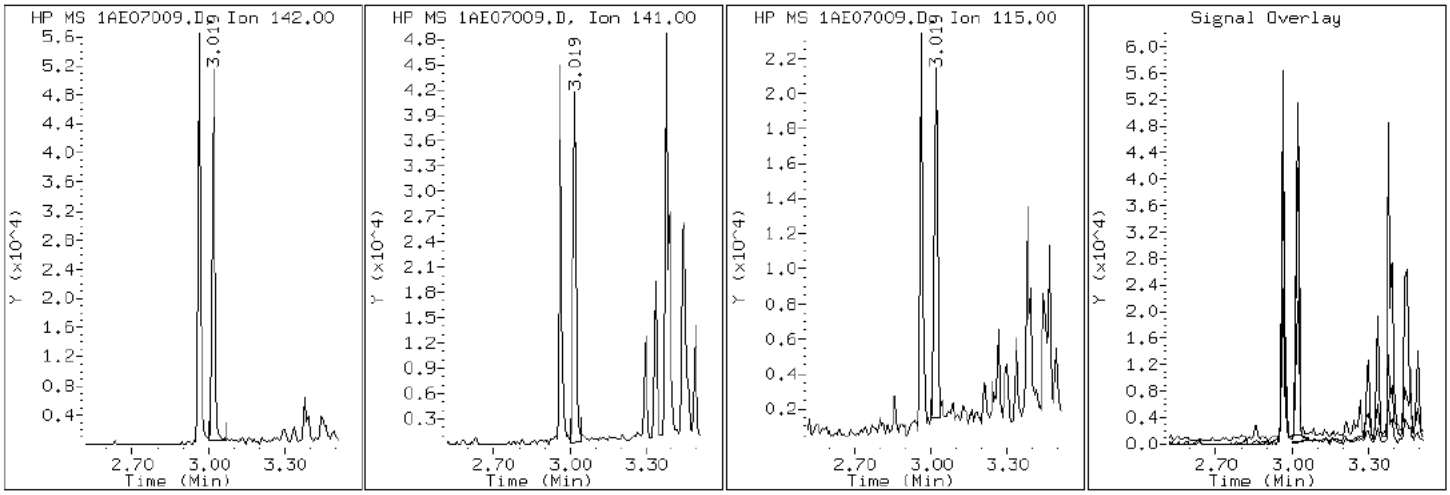
Data File: 1AE07009.D

Date: 07-MAY-2013 14:21

Client ID: CV1067B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-A-3-A Operator: SCC

4 1-Methylnaphthalene



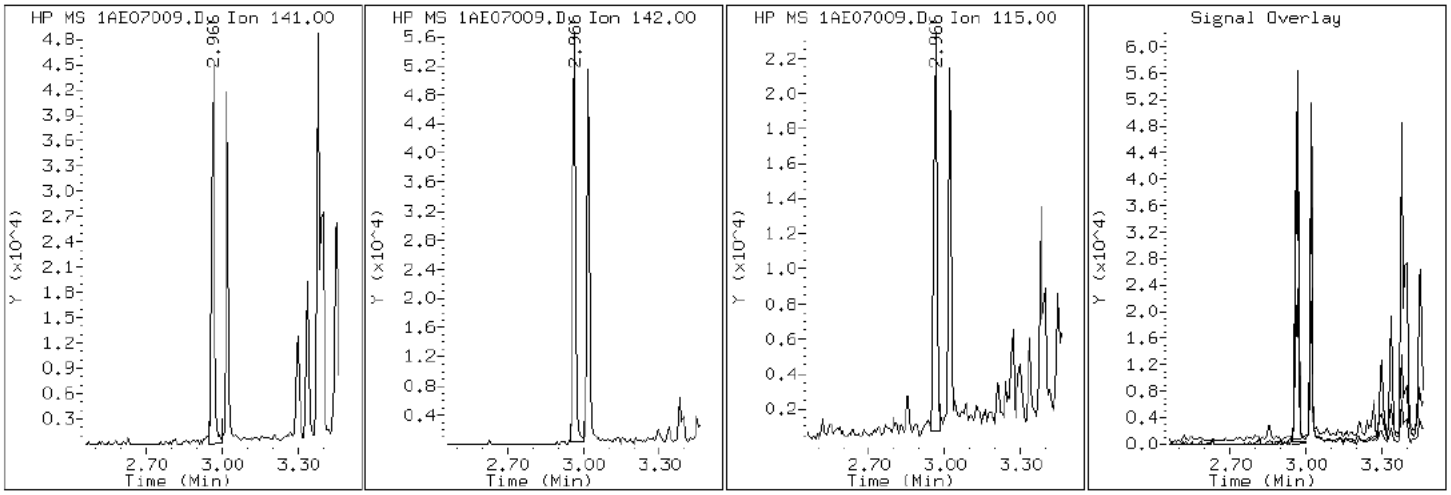
Data File: 1AE07009.D

Date: 07-MAY-2013 14:21

Client ID: CV1067B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-A-3-A Operator: SCC

3 2-Methylnaphthalene



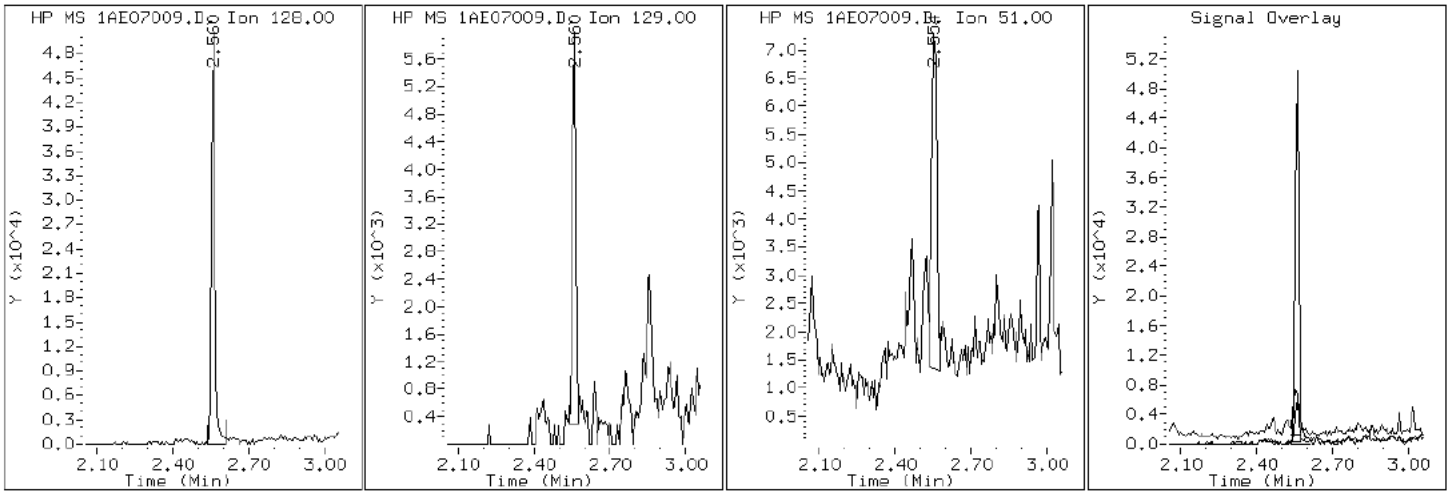
Data File: 1AE07009.D

Date: 07-MAY-2013 14:21

Client ID: CV1067B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-A-3-A Operator: SCC

2 Naphthalene



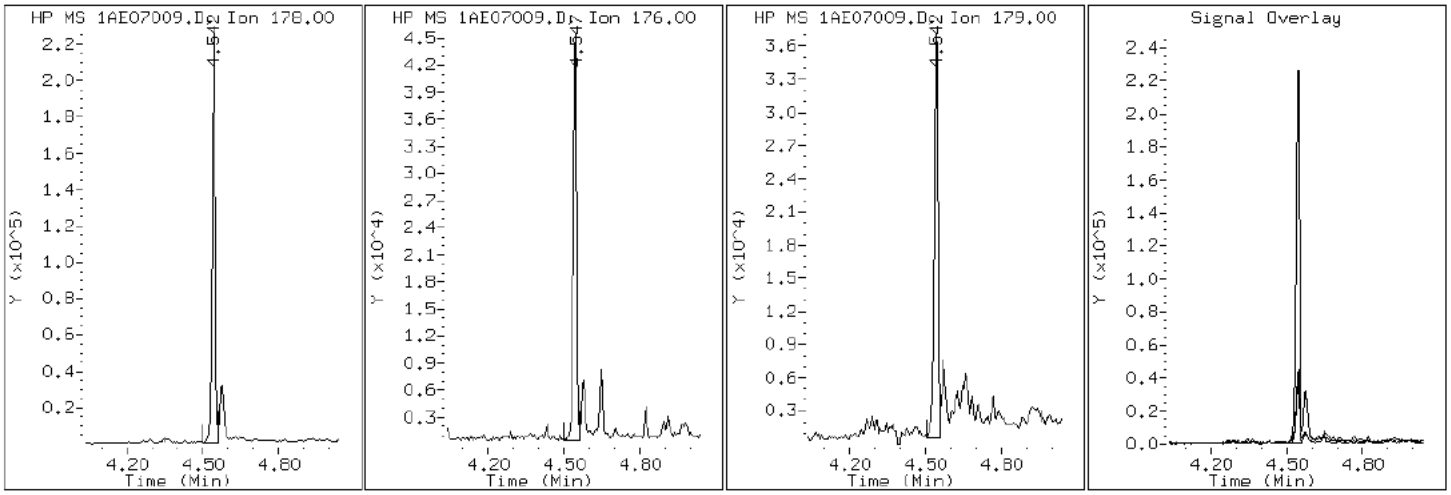
Data File: 1AE07009.D

Date: 07-MAY-2013 14:21

Client ID: CV1067B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-A-3-A Operator: SCC

11 Phenanthrene



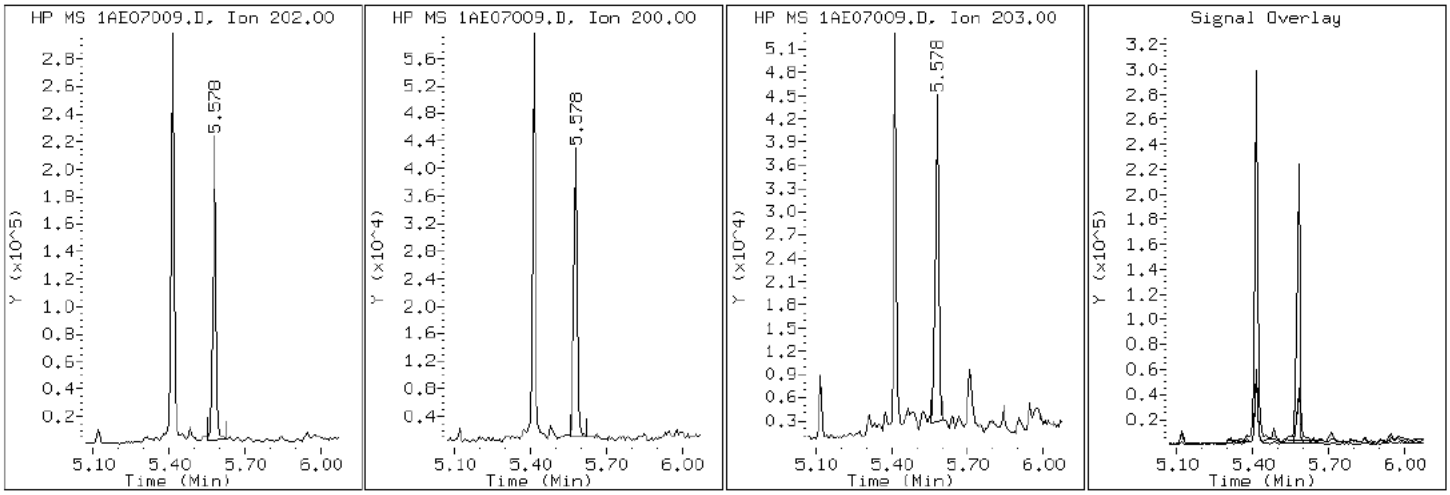
Data File: 1AE07009.D

Date: 07-MAY-2013 14:21

Client ID: CV1067B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-A-3-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE07009.D
Inj. Date and Time: 07-MAY-2013 14:21
Instrument ID: BSMA5973.i
Client ID: CV1067B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/07/2013

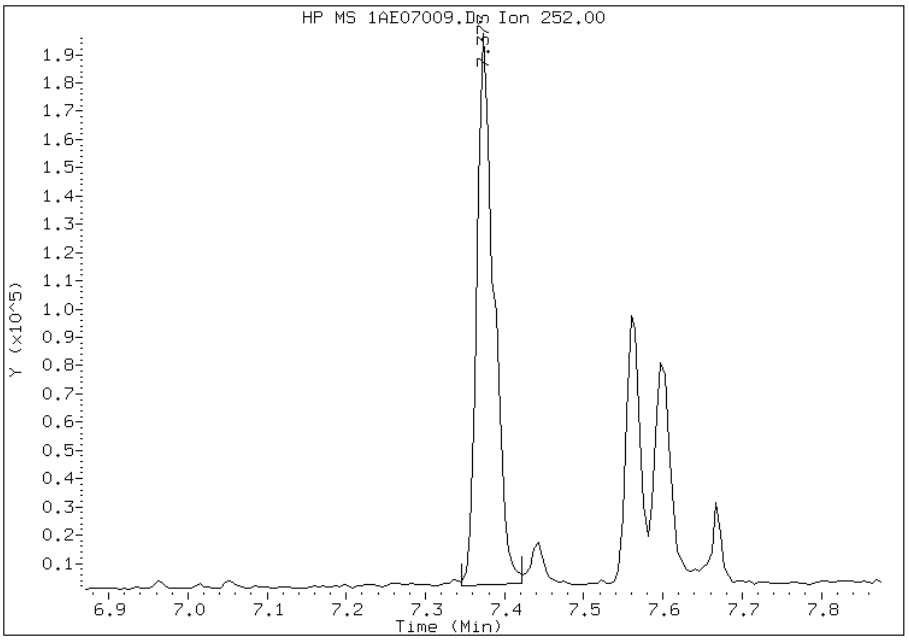
Processing Integration Results

RT: 7.37

Response: 289471

Amount: 7

Conc: 586



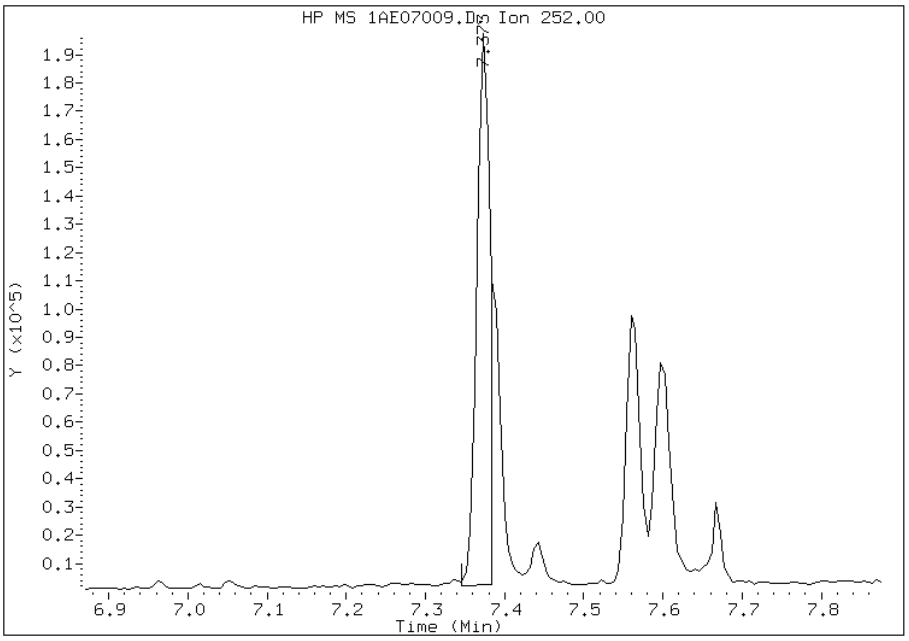
Manual Integration Results

RT: 7.37

Response: 223249

Amount: 5

Conc: 452



Manually Integrated By: cantins
Modification Date: 07-May-2013 14:36
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE07009.D
Inj. Date and Time: 07-MAY-2013 14:21
Instrument ID: BSMA5973.i
Client ID: CV1067B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/07/2013

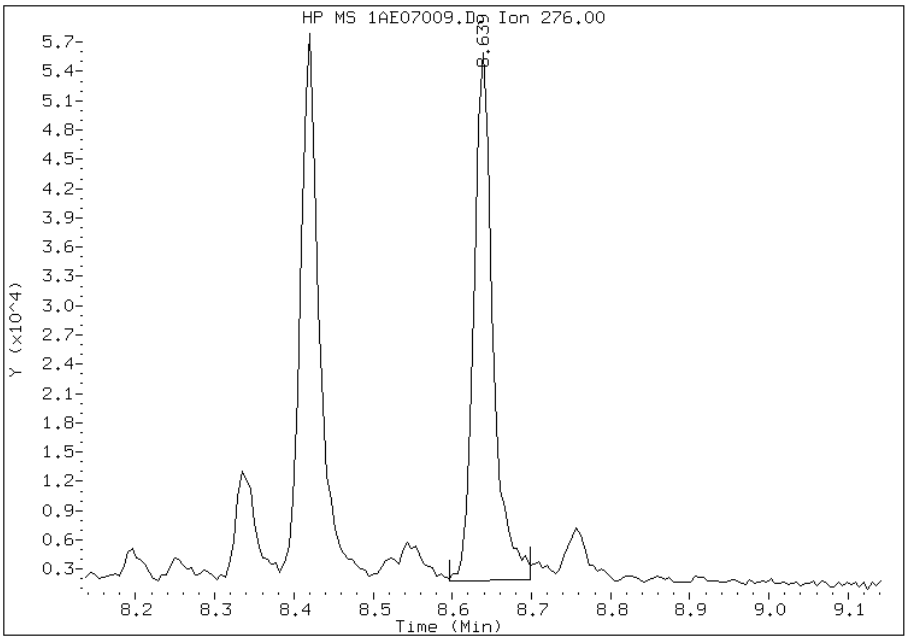
Processing Integration Results

RT: 8.64

Response: 90476

Amount: 2

Conc: 198



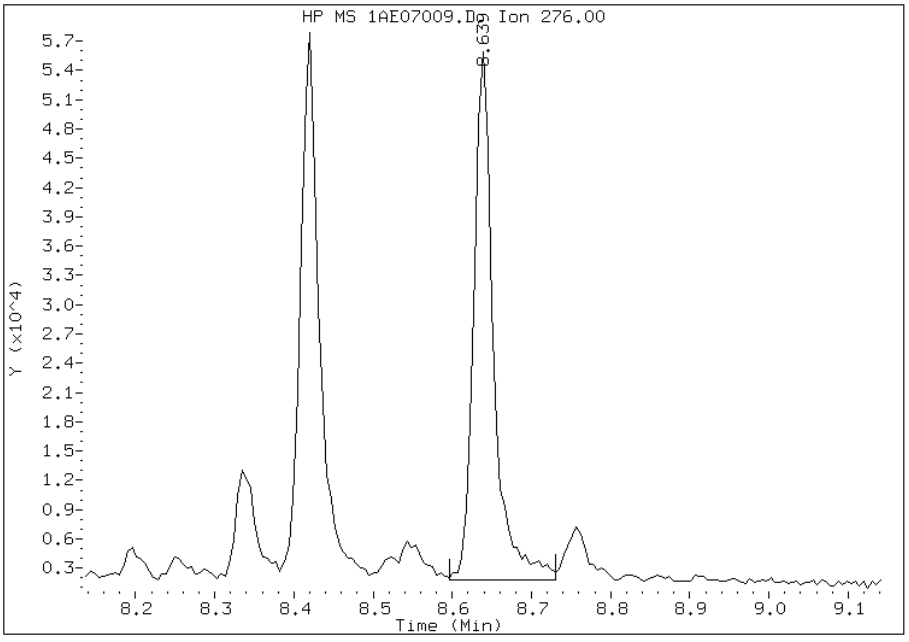
Manual Integration Results

RT: 8.64

Response: 93450

Amount: 2

Conc: 204



Manually Integrated By: cantins
Modification Date: 07-May-2013 14:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE07009.D
Inj. Date and Time: 07-MAY-2013 14:21
Instrument ID: BSMA5973.i
Client ID: CV1067B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/07/2013

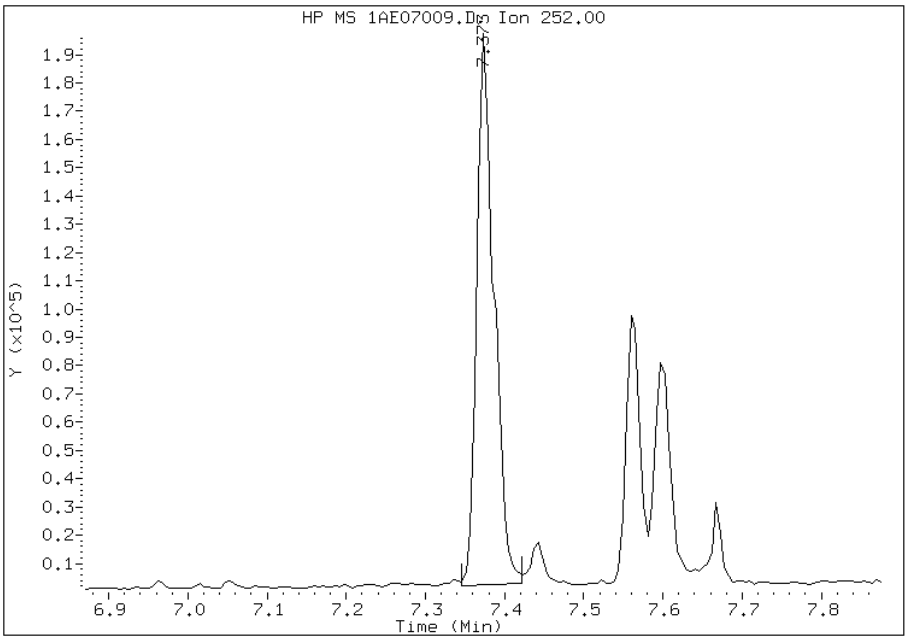
Processing Integration Results

RT: 7.37

Response: 289471

Amount: 5

Conc: 472



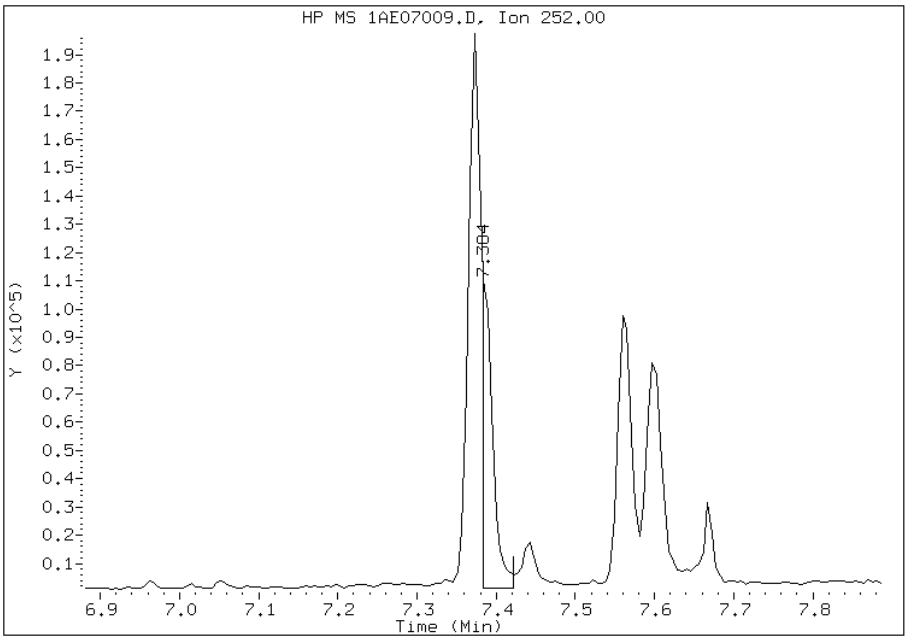
Manual Integration Results

RT: 7.38

Response: 104385

Amount: 2

Conc: 170



Manually Integrated By: cantins
Modification Date: 07-May-2013 14:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE07009.D
Inj. Date and Time: 07-MAY-2013 14:21
Instrument ID: BSMA5973.i
Client ID: CV1067B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/07/2013

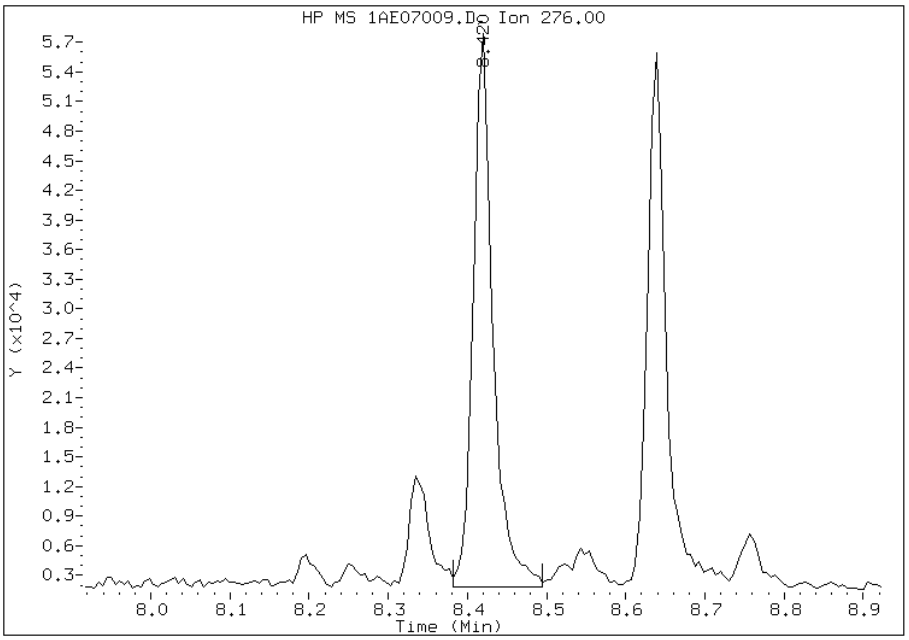
Processing Integration Results

RT: 8.42

Response: 96046

Amount: 3

Conc: 226



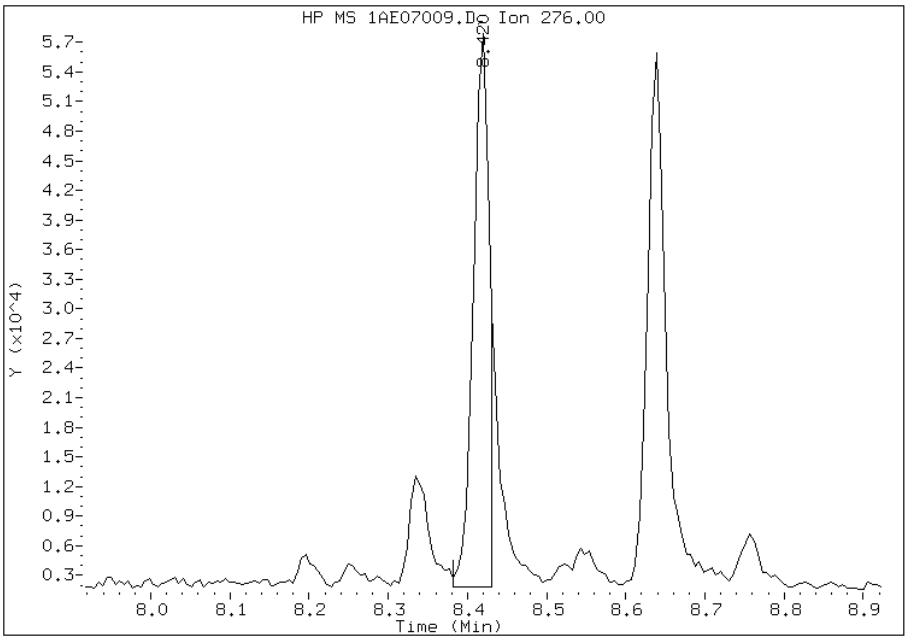
Manual Integration Results

RT: 8.42

Response: 77817

Amount: 2

Conc: 183



Manually Integrated By: cantins
Modification Date: 07-May-2013 14:37
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: HP0333A-CS | Lab Sample ID: 680-89985-4

Matrix: Solid | Lab File ID: 1AE07007.D

Analysis Method: 8270C LL | Date Collected: 05/01/2013 09:20

Extract. Method: 3546 | Date Extracted: 05/06/2013 08:14

Sample wt/vol: 15.39(g) | Date Analyzed: 05/07/2013 13:51

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

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

% Moisture: 25.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137194 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	24	J	52	6.5
120-12-7	Anthracene	41		11	5.5
56-55-3	Benzo[a]anthracene	210		10	5.1
50-32-8	Benzo[a]pyrene	220		14	6.8
205-99-2	Benzo[b]fluoranthene	290		16	8.0
191-24-2	Benzo[g,h,i]perylene	220		26	5.7
207-08-9	Benzo[k]fluoranthene	140		10	4.7
218-01-9	Chrysene	250		12	5.9
53-70-3	Dibenz(a,h)anthracene	70		26	5.4
206-44-0	Fluoranthene	220		26	5.2
86-73-7	Fluorene	19	J	26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	190		26	9.3
90-12-0	1-Methylnaphthalene	88		52	5.7
91-57-6	2-Methylnaphthalene	110		52	9.3
91-20-3	Naphthalene	140		52	5.7
85-01-8	Phenanthrene	250		10	5.1
129-00-0	Pyrene	200		26	4.8

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\1AE07007.D
Lab Smp Id: 680-89985-A-4-A Client Smp ID: HP0333A-CS
Inj Date : 07-MAY-2013 13:51
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89985-a-4-a
Misc Info : 680-89985-A-4-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\a-bFASTPAHi-m.m
Meth Date : 07-May-2013 13:04 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 7
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	15.390	Weight Extracted
M	25.000	% 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	2.550	2.544	(1.000)	1268269	40.0000	
* 6 Acenaphthene-d10	164	3.575	3.575	(1.000)	648229	40.0000	
* 10 Phenanthrene-d10	188	4.526	4.526	(1.000)	919391	40.0000	
$ 14 o-Terphenyl	230	4.820	4.820	(1.065)	80505	6.11810	530.0501
* 18 Chrysene-d12	240	6.551	6.545	(1.000)	809088	40.0000	
* 23 Perylene-d12	264	7.641	7.630	(1.000)	1064414	40.0000	
2 Naphthalene	128	2.560	2.555	(1.004)	47771	1.59947	138.5726(M)
3 2-Methylnaphthalene	141	2.961	2.961	(1.161)	19451	1.28147	111.0217
4 1-Methylnaphthalene	142	3.020	3.014	(1.184)	18391	1.01087	87.5776
5 Acenaphthylene	152	3.484	3.484	(0.975)	8513	0.27948	24.2135
9 Fluorene	166	3.907	3.906	(1.093)	4362	0.21882	18.9574
11 Phenanthrene	178	4.537	4.537	(1.002)	64993	2.85343	247.2105
12 Anthracene	178	4.569	4.574	(1.009)	11324	0.46672	40.4349
13 Carbazole	167	4.708	4.707	(1.040)	5774	0.26468	22.9307

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	5.402	5.402	(1.194)	66460	2.53634	219.7390
16 Pyrene	202	5.568	5.568	(0.850)	58895	2.26457	196.1938
17 Benzo(a)anthracene	228	6.540	6.529	(0.998)	53959	2.37299	205.5868
19 Chrysene	228	6.562	6.561	(1.002)	73648	2.87861	249.3926
20 Benzo(b)fluoranthene	252	7.358	7.352	(0.963)	93664	3.32918	288.4280(M)
21 Benzo(k)fluoranthene	252	7.368	7.373	(0.964)	54102	1.55007	134.2923(M)
22 Benzo(a)pyrene	252	7.587	7.576	(0.993)	71549	2.47628	214.5359
24 Indeno(1,2,3-cd)pyrene	276	8.399	8.388	(1.099)	53211	2.19829	190.4520(M)
25 Dibenzo(a,h)anthracene	278	8.421	8.410	(1.102)	20033	0.80739	69.9489
26 Benzo(g,h,i)perylene	276	8.618	8.602	(1.128)	64345	2.47202	214.1663

QC Flag Legend

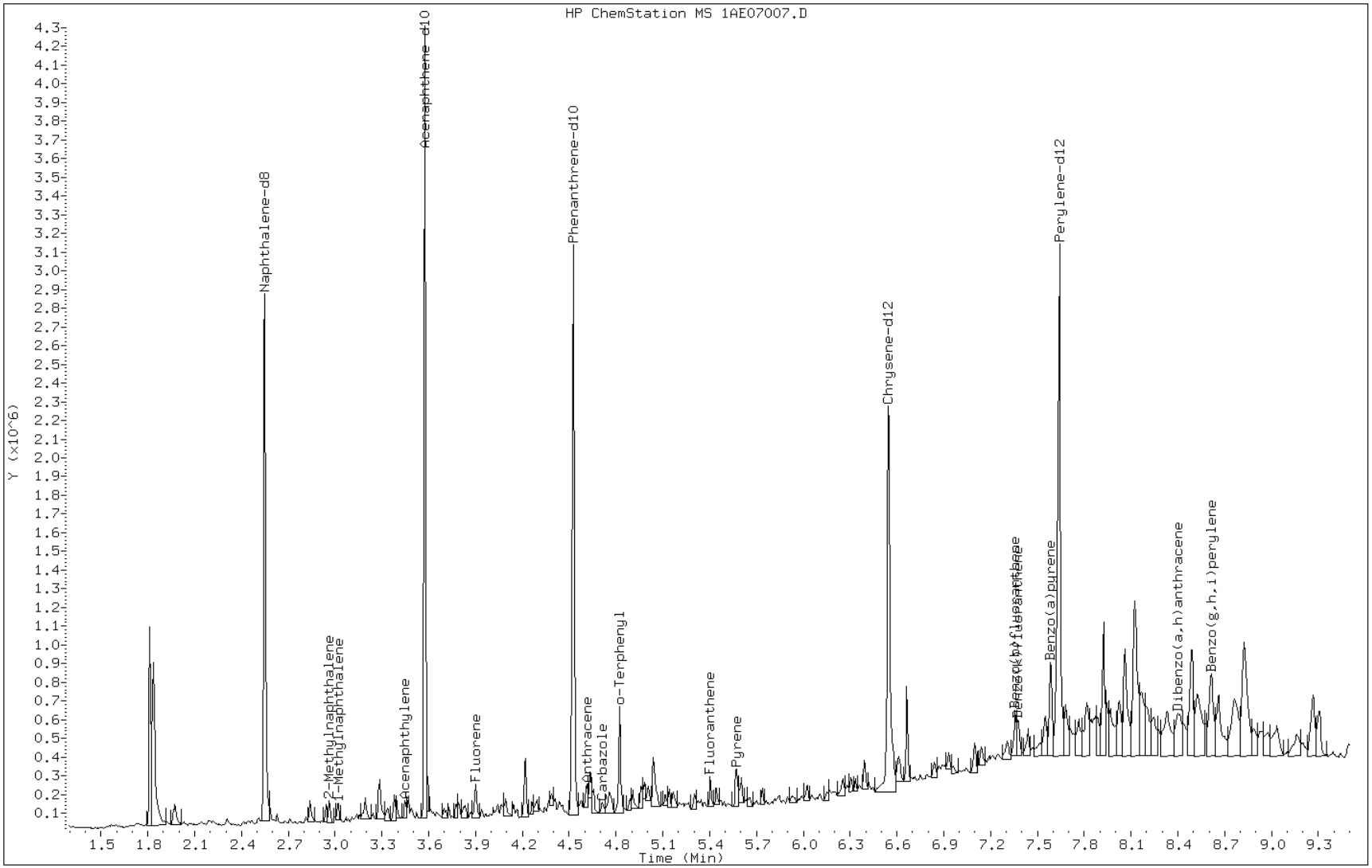
M - Compound response manually integrated.

Data File: 1AE07007.D

Date: 07-MAY-2013 13:51

Client ID: HP0333A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-4-a Operator: SCC



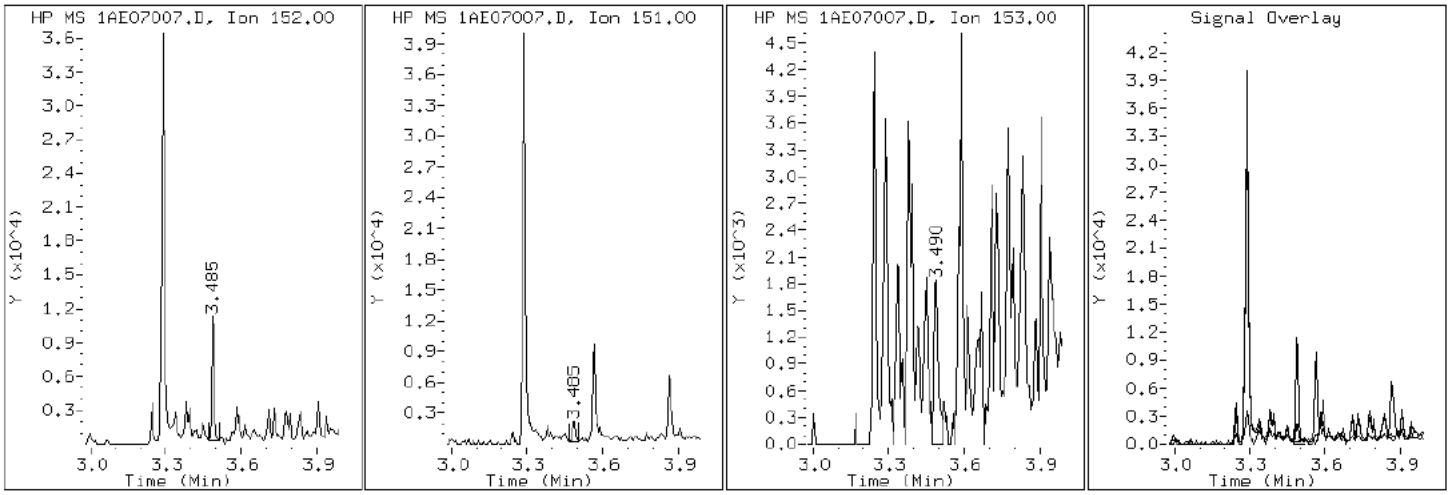
Data File: 1AE07007.D

Date: 07-MAY-2013 13:51

Client ID: HP0333A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-4-a Operator: SCC

5 Acenaphthylene



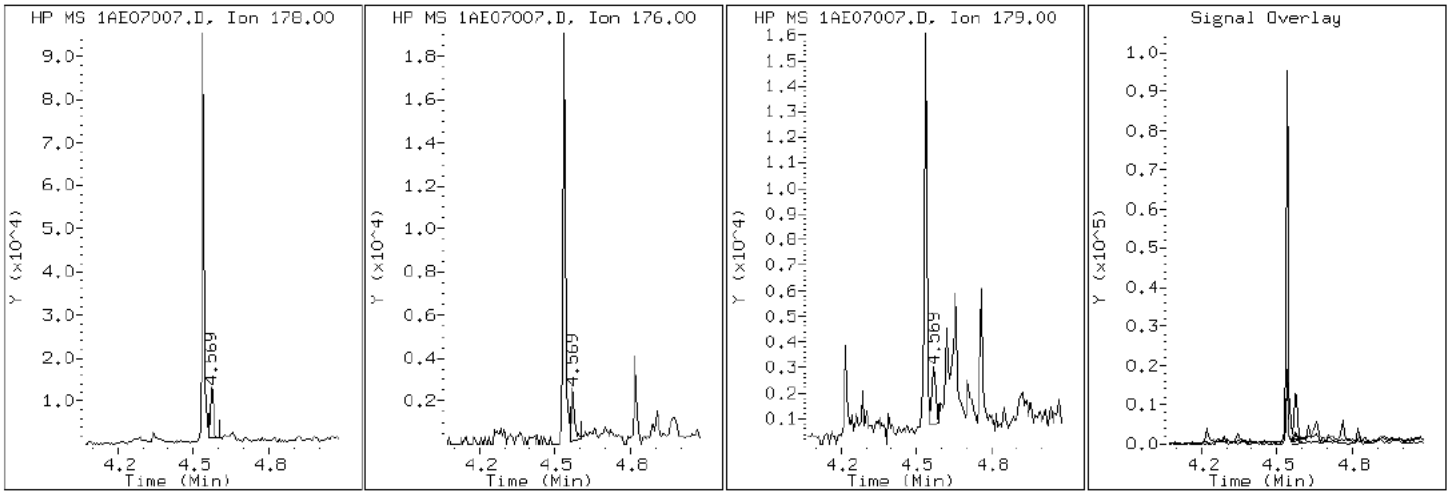
Data File: 1AE07007.D

Date: 07-MAY-2013 13:51

Client ID: HP0333A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-4-a Operator: SCC

12 Anthracene



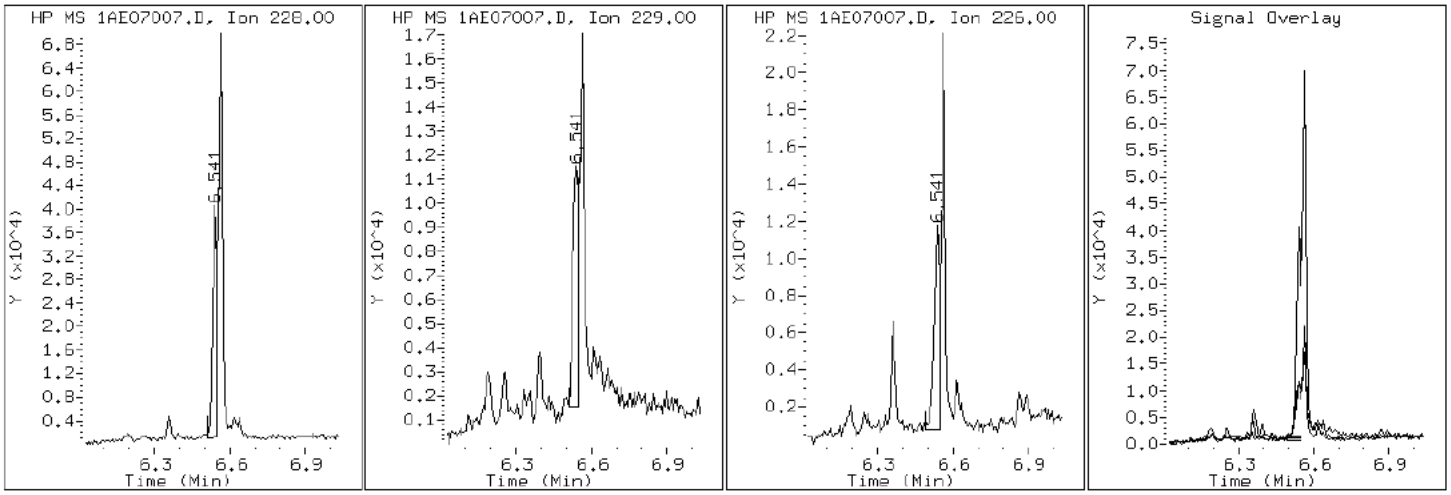
Data File: 1AE07007.D

Date: 07-MAY-2013 13:51

Client ID: HP0333A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-4-a Operator: SCC

17 Benzo(a)anthracene



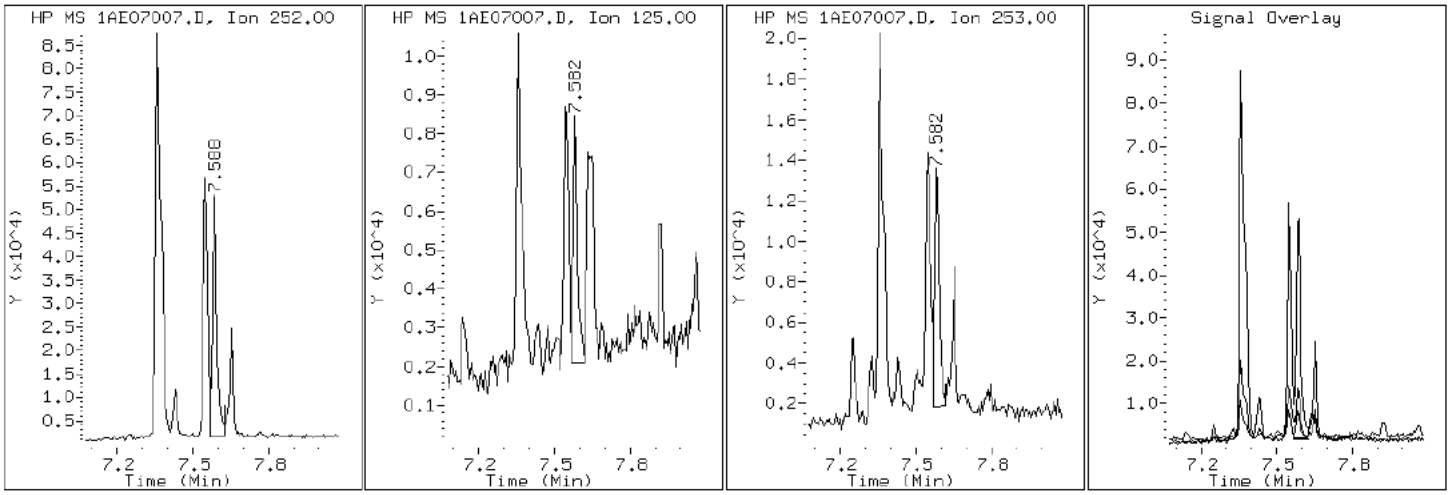
Data File: 1AE07007.D

Date: 07-MAY-2013 13:51

Client ID: HP0333A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-4-a Operator: SCC

22 Benzo(a)pyrene



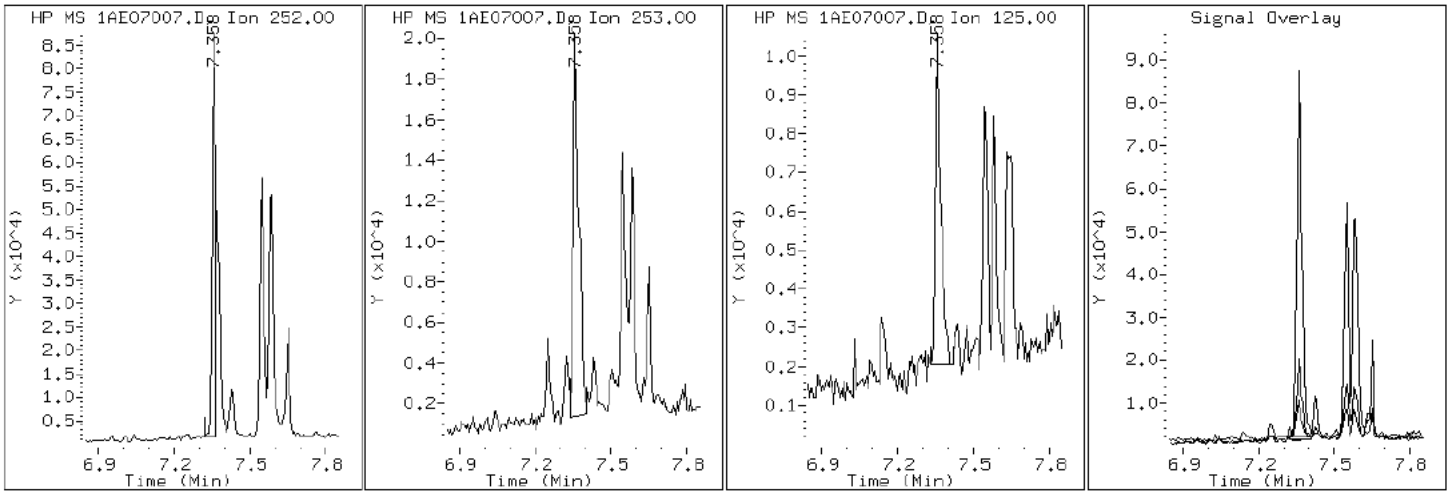
Data File: 1AE07007.D

Date: 07-MAY-2013 13:51

Client ID: HP0333A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-4-a Operator: SCC

20 Benzo(b)fluoranthene



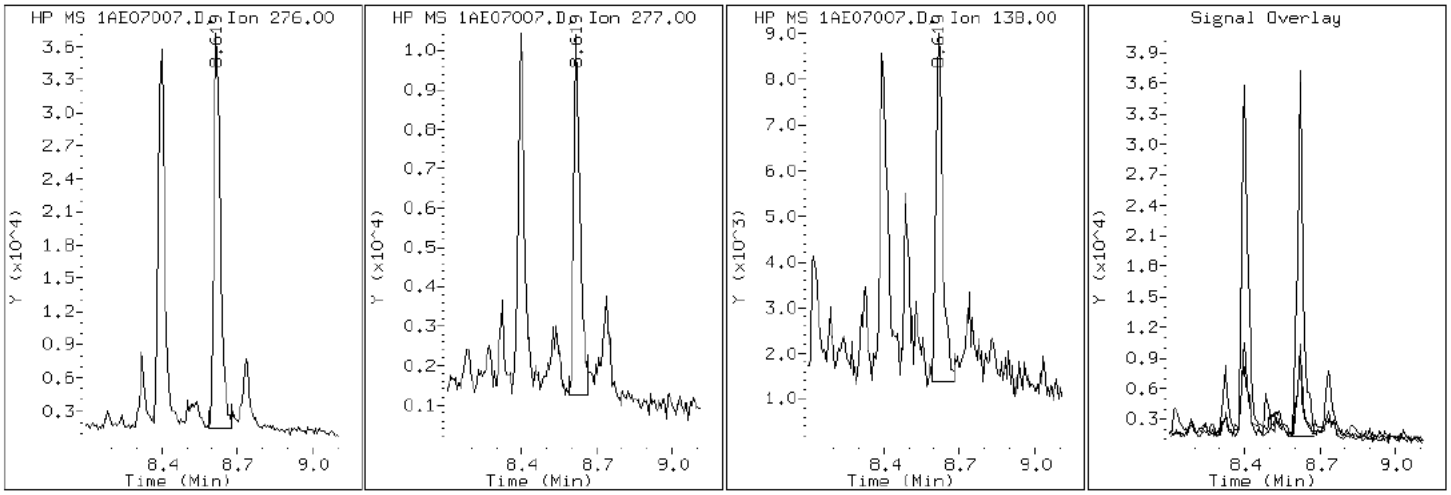
Data File: 1AE07007.D

Date: 07-MAY-2013 13:51

Client ID: HP0333A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-4-a Operator: SCC

26 Benzo(g,h,i)perylene



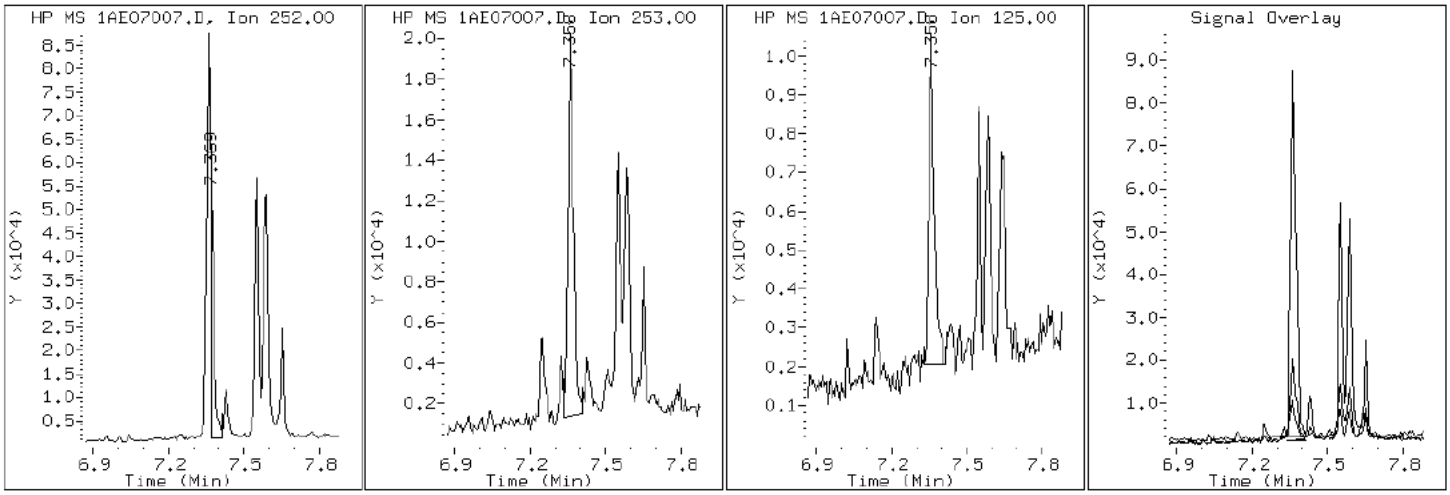
Data File: 1AE07007.D

Date: 07-MAY-2013 13:51

Client ID: HP0333A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-4-a Operator: SCC

21 Benzo(k)fluoranthene



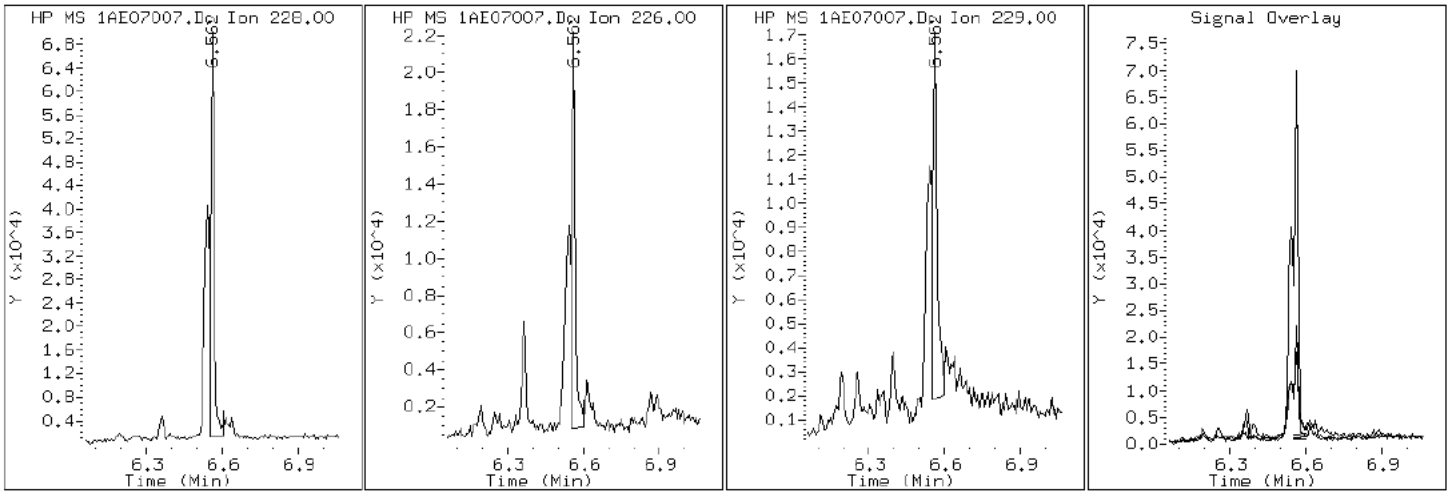
Data File: 1AE07007.D

Date: 07-MAY-2013 13:51

Client ID: HP0333A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-4-a Operator: SCC

19 Chrysene



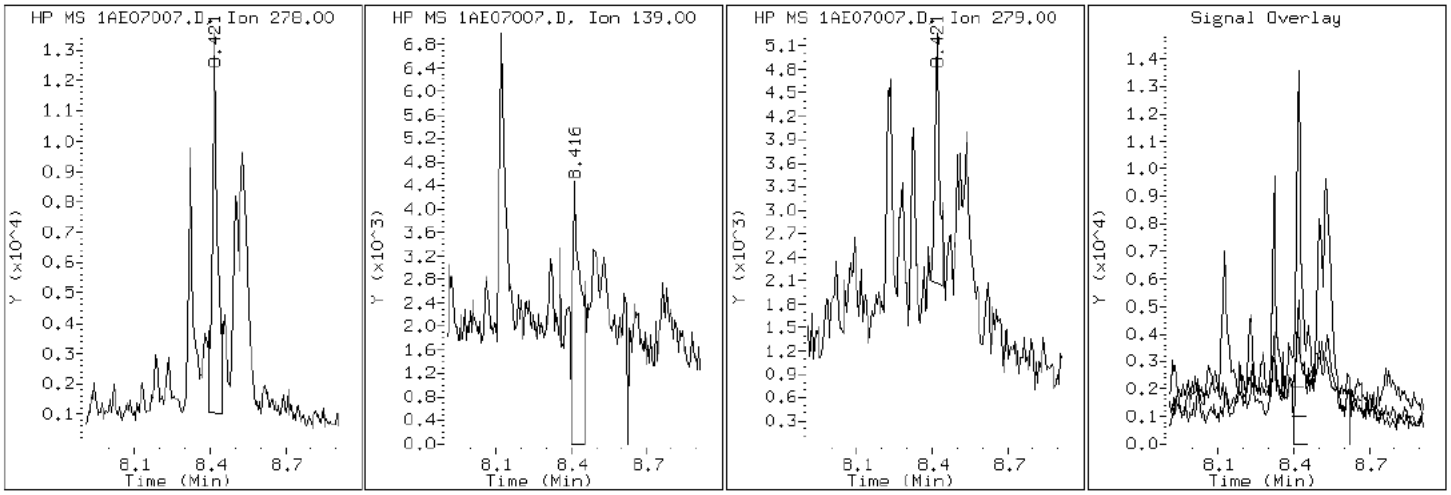
Data File: 1AE07007.D

Date: 07-MAY-2013 13:51

Client ID: HP0333A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-4-a Operator: SCC

25 Dibenzo(a,h)anthracene



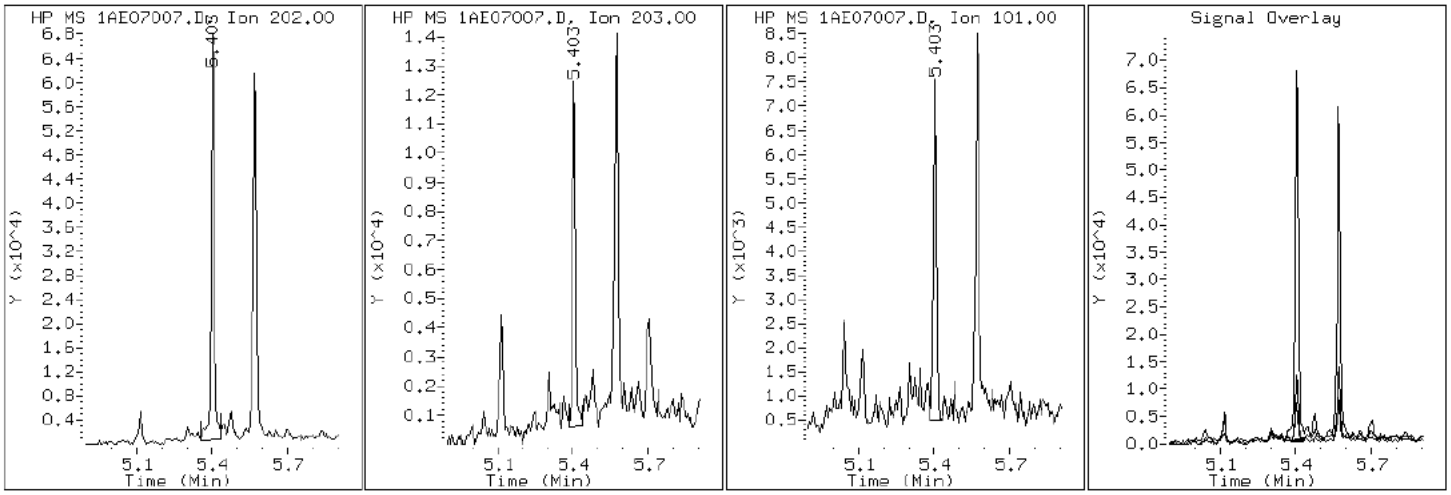
Data File: 1AE07007.D

Date: 07-MAY-2013 13:51

Client ID: HP0333A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-4-a Operator: SCC

15 Fluoranthene



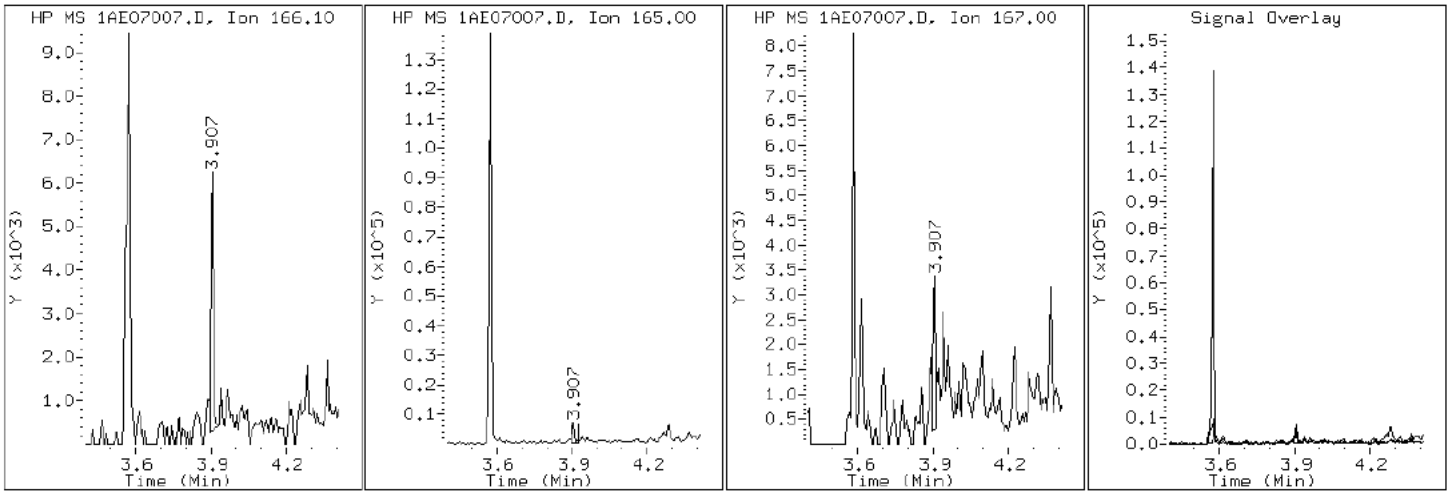
Data File: 1AE07007.D

Date: 07-MAY-2013 13:51

Client ID: HP0333A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-4-a Operator: SCC

9 Fluorene



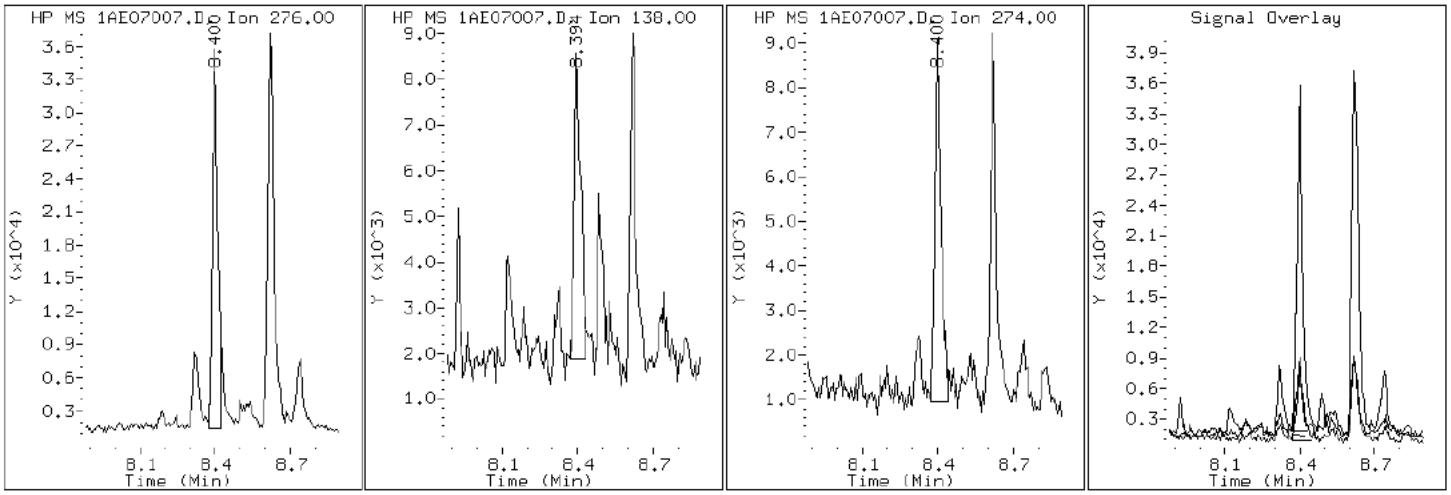
Data File: 1AE07007.D

Date: 07-MAY-2013 13:51

Client ID: HP0333A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-4-a Operator: SCC

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



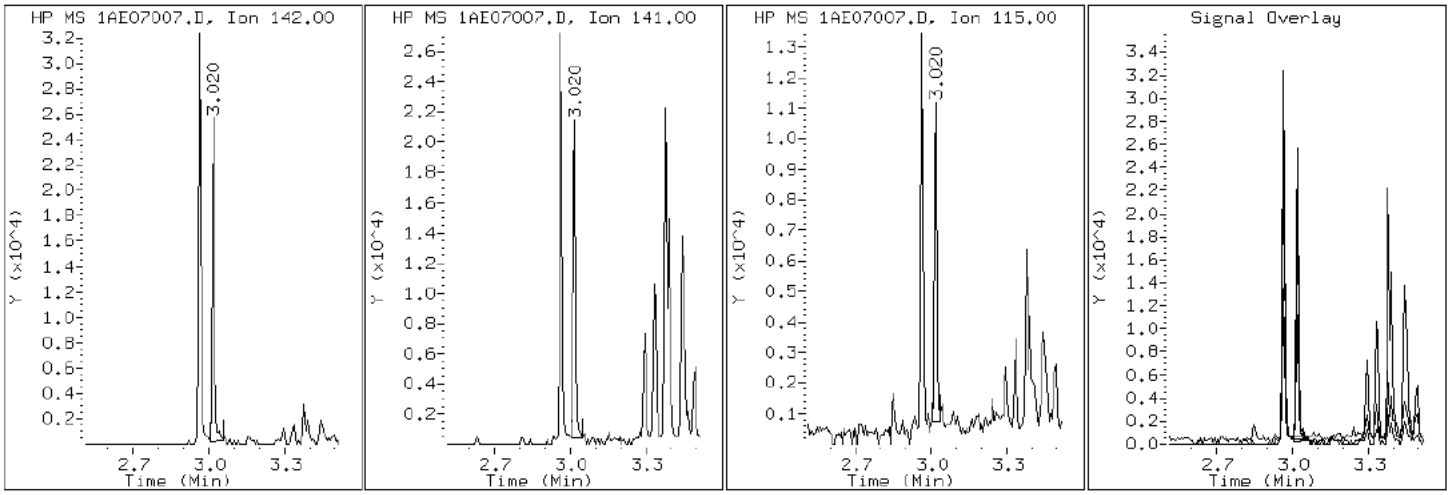
Data File: 1AE07007.D

Date: 07-MAY-2013 13:51

Client ID: HP0333A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-4-a Operator: SCC

4 1-Methylnaphthalene



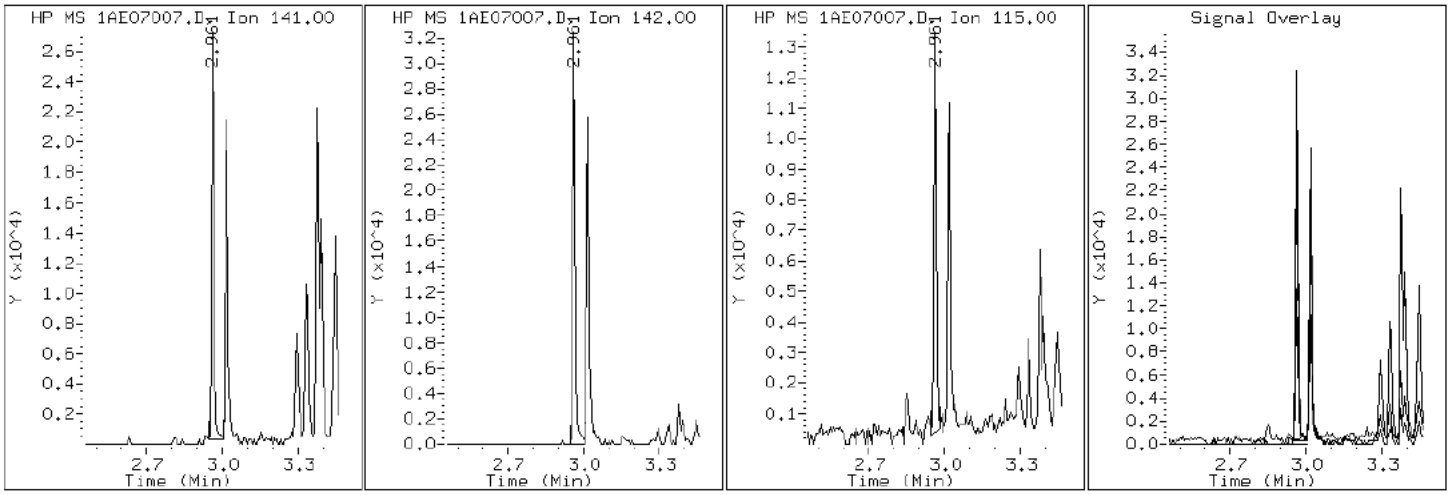
Data File: 1AE07007.D

Date: 07-MAY-2013 13:51

Client ID: HP0333A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-4-a Operator: SCC

3 2-Methylnaphthalene



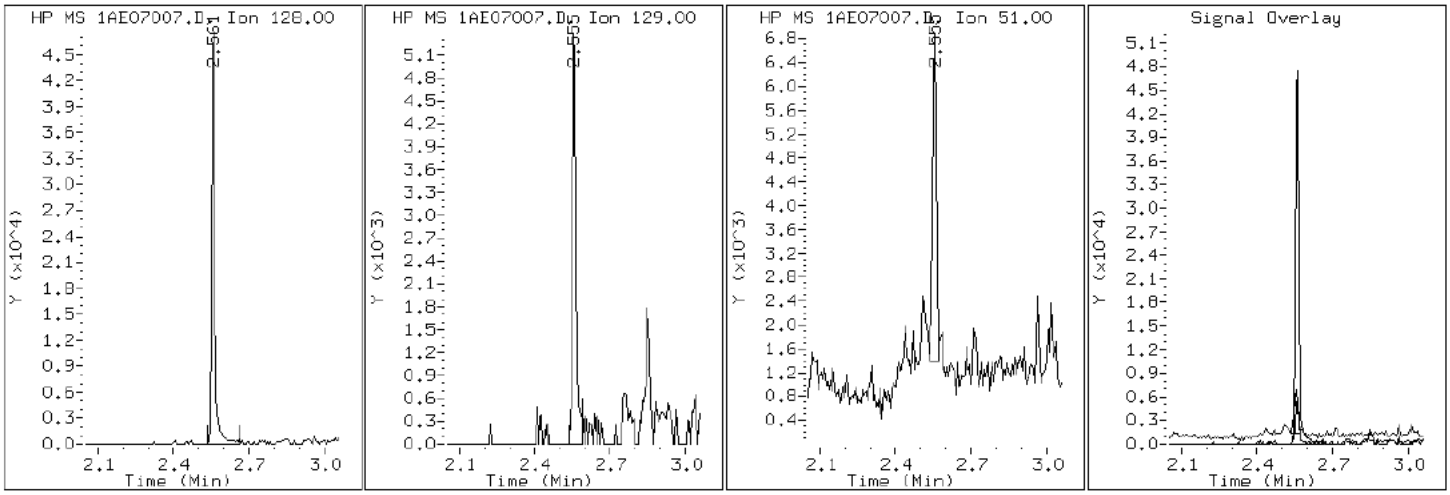
Data File: 1AE07007.D

Date: 07-MAY-2013 13:51

Client ID: HP0333A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-4-a Operator: SCC

2 Naphthalene



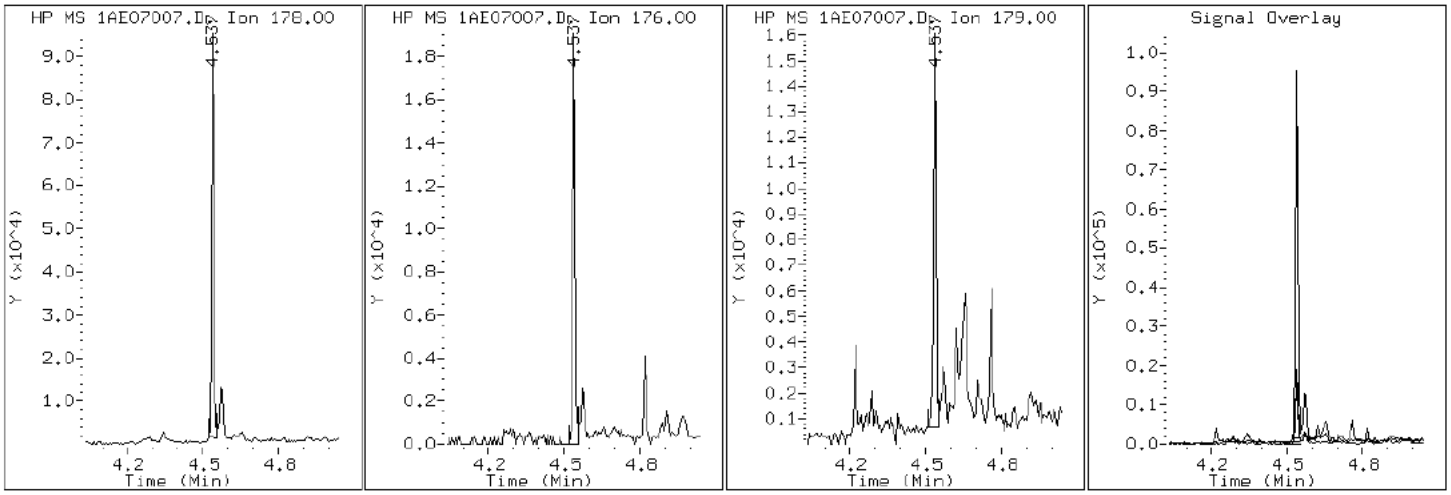
Data File: 1AE07007.D

Date: 07-MAY-2013 13:51

Client ID: HP0333A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-4-a Operator: SCC

11 Phenanthrene



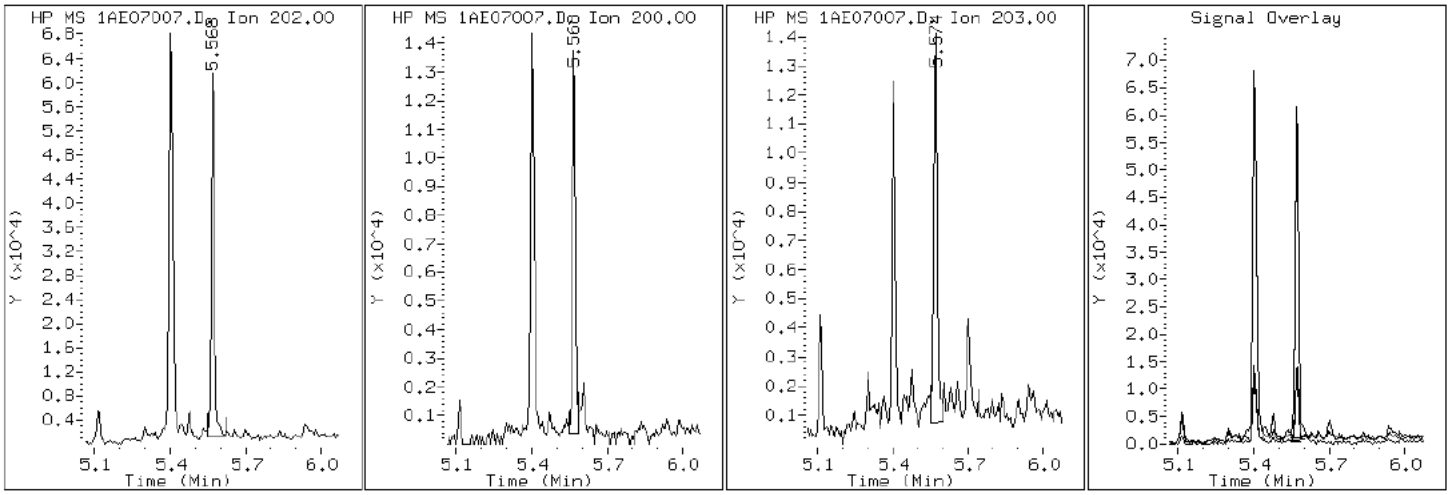
Data File: 1AE07007.D

Date: 07-MAY-2013 13:51

Client ID: HP0333A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-4-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE07007.D
Inj. Date and Time: 07-MAY-2013 13:51
Instrument ID: BSMA5973.i
Client ID: HP0333A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

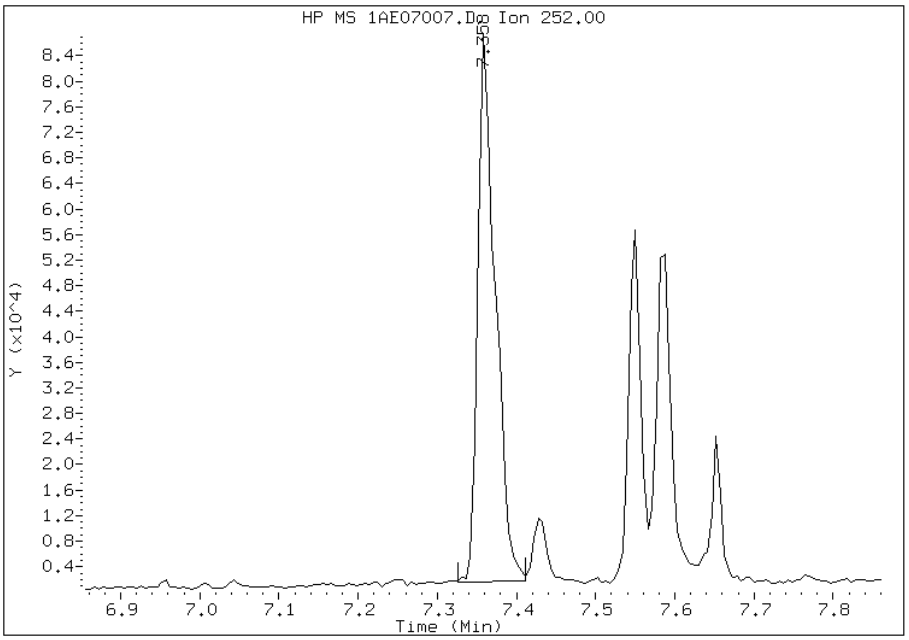
Processing Integration Results

RT: 7.36

Response: 129683

Amount: 5

Conc: 399



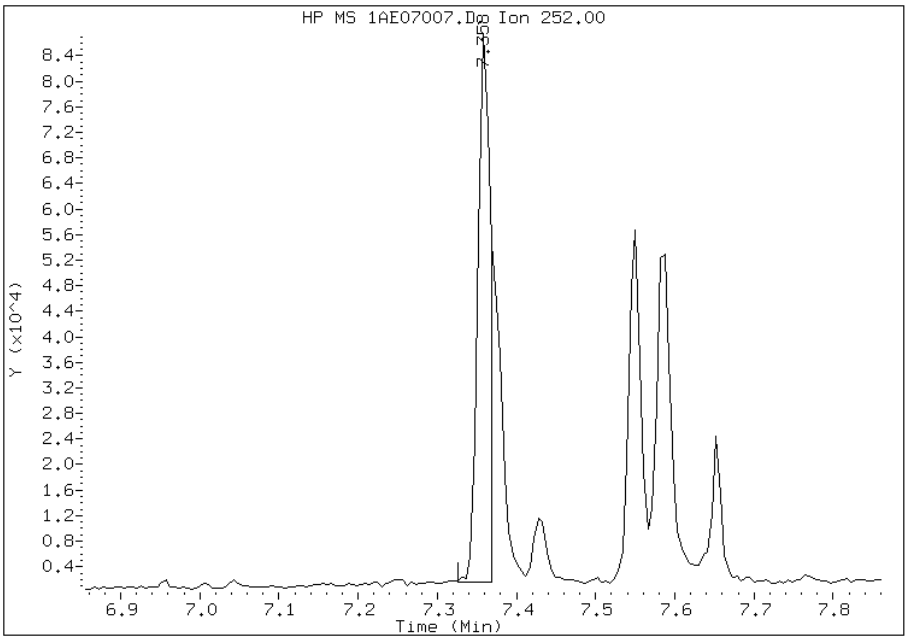
Manual Integration Results

RT: 7.36

Response: 93664

Amount: 3

Conc: 288



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:50
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE07007.D
Inj. Date and Time: 07-MAY-2013 13:51
Instrument ID: BSMA5973.i
Client ID: HP0333A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

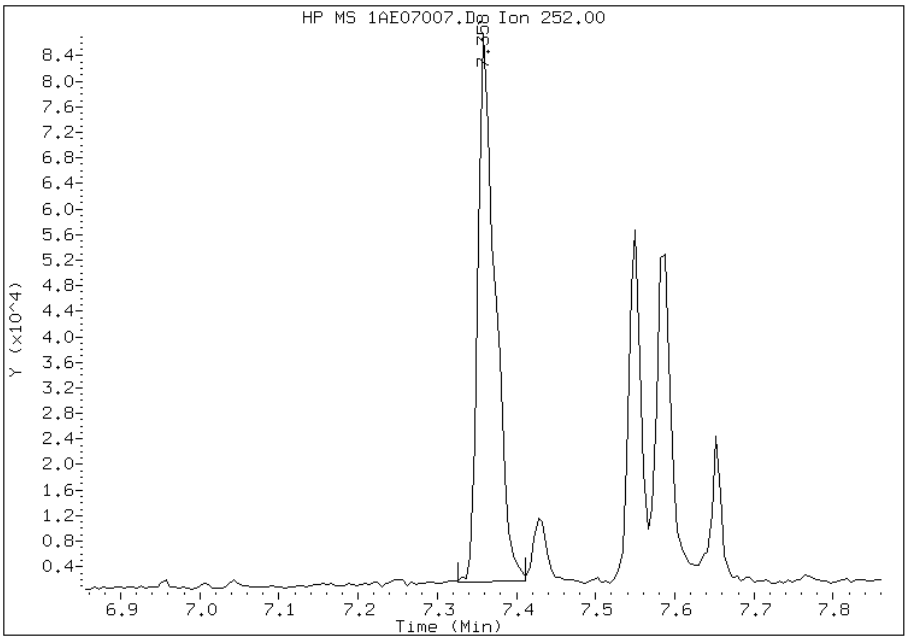
Processing Integration Results

RT: 7.36

Response: 129683

Amount: 4

Conc: 322



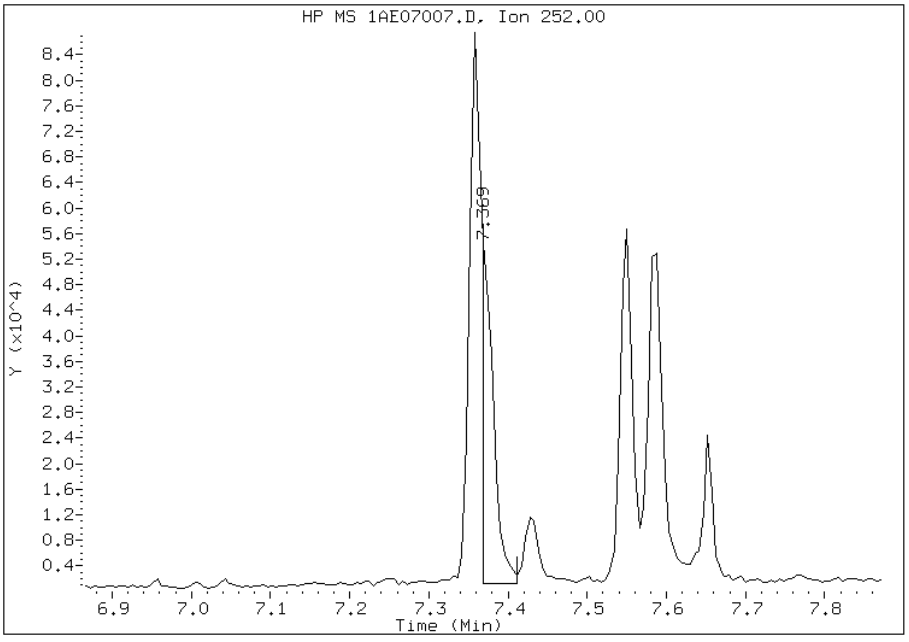
Manual Integration Results

RT: 7.37

Response: 54102

Amount: 2

Conc: 134



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:50
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE07007.D
Inj. Date and Time: 07-MAY-2013 13:51
Instrument ID: BSMA5973.i
Client ID: HP0333A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

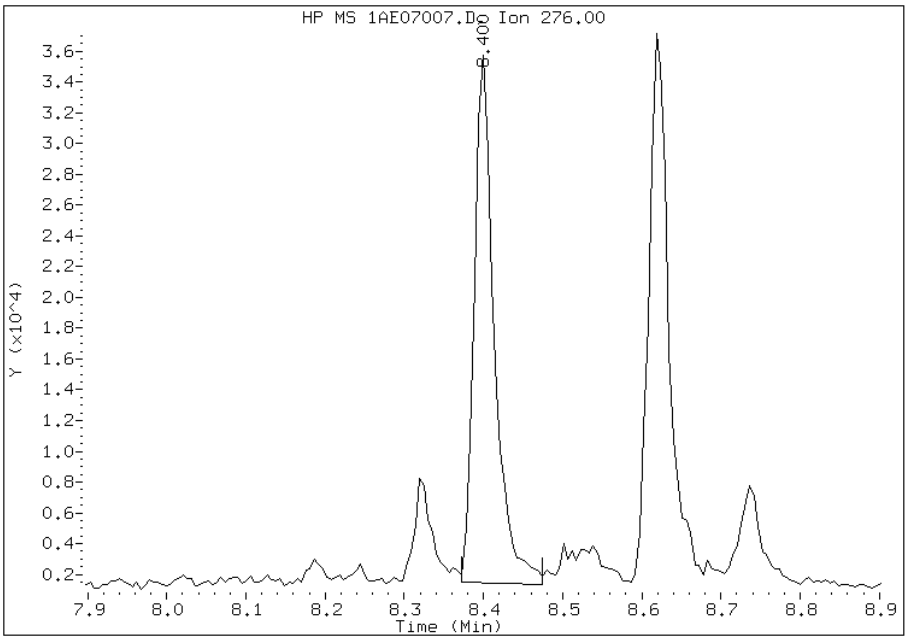
Processing Integration Results

RT: 8.40

Response: 59880

Amount: 2

Conc: 214



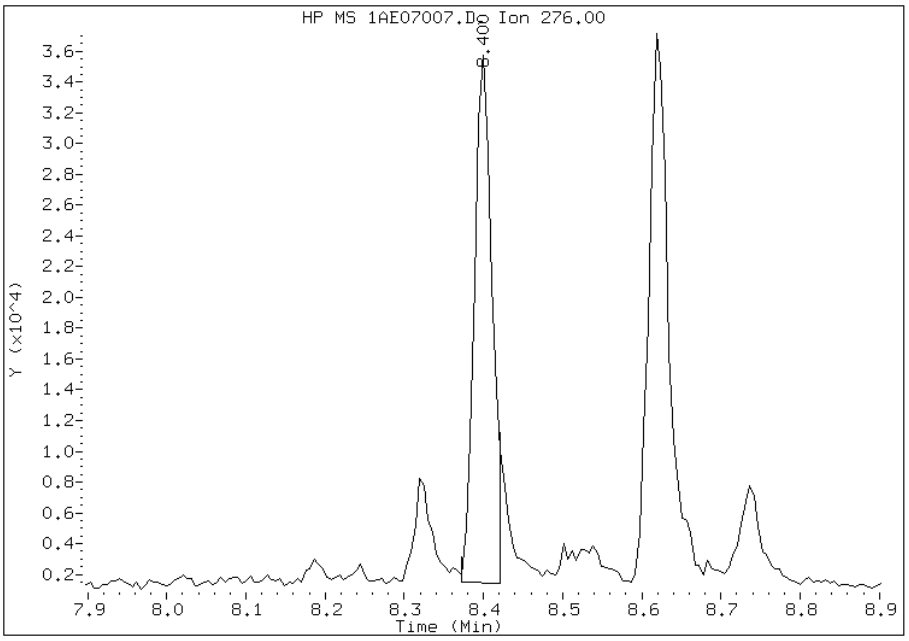
Manual Integration Results

RT: 8.40

Response: 53211

Amount: 2

Conc: 190



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:50
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE07007.D
Inj. Date and Time: 07-MAY-2013 13:51
Instrument ID: BSMA5973.i
Client ID: HP0333A-CS
Compound: 2 Naphthalene
CAS #: 91-20-3
Report Date: 05/09/2013

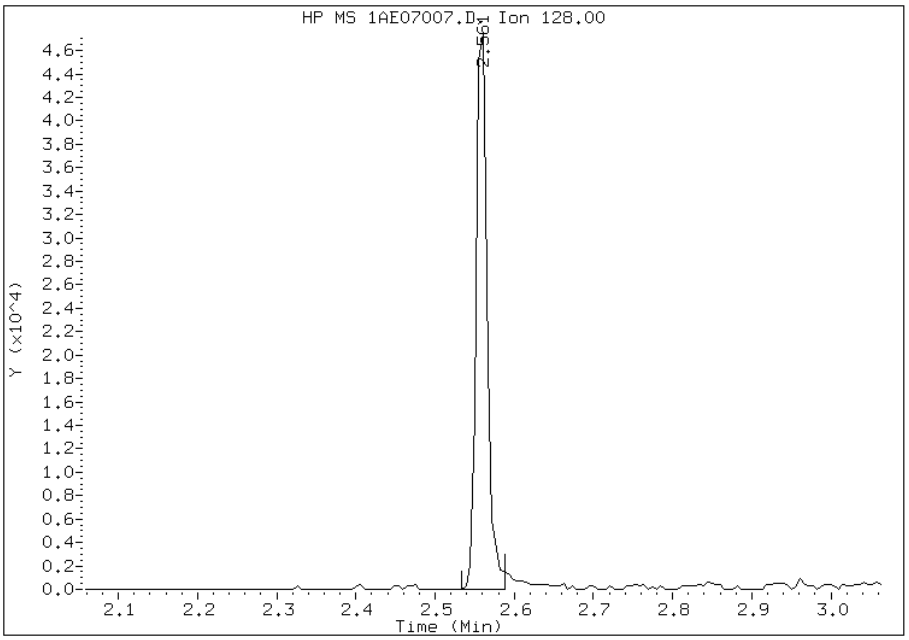
Processing Integration Results

RT: 2.56

Response: 45366

Amount: 2

Conc: 132



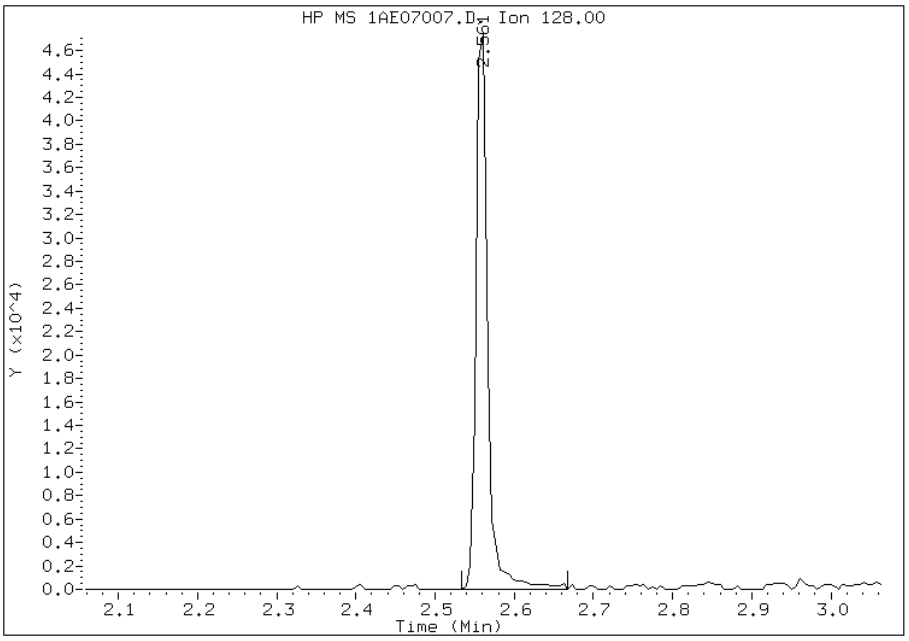
Manual Integration Results

RT: 2.56

Response: 47771

Amount: 2

Conc: 139



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:50
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: HP0333A-CSD | Lab Sample ID: 680-89985-5

Matrix: Solid | Lab File ID: 1AE07008.D

Analysis Method: 8270C LL | Date Collected: 05/01/2013 09:20

Extract. Method: 3546 | Date Extracted: 05/06/2013 08:14

Sample wt/vol: 15.26(g) | Date Analyzed: 05/07/2013 14:06

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

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

% Moisture: 26.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137194 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	20	J	54	6.7
120-12-7	Anthracene	55		11	5.6
56-55-3	Benzo[a]anthracene	250		11	5.2
50-32-8	Benzo[a]pyrene	220		14	7.0
205-99-2	Benzo[b]fluoranthene	320		16	8.2
191-24-2	Benzo[g,h,i]perylene	230		27	5.9
207-08-9	Benzo[k]fluoranthene	150		11	4.8
218-01-9	Chrysene	290		12	6.0
53-70-3	Dibenz(a,h)anthracene	70		27	5.5
206-44-0	Fluoranthene	220		27	5.4
86-73-7	Fluorene	24	J	27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	210		27	9.5
90-12-0	1-Methylnaphthalene	140		54	5.9
91-57-6	2-Methylnaphthalene	160		54	9.5
91-20-3	Naphthalene	150		54	5.9
85-01-8	Phenanthrene	300		11	5.2
129-00-0	Pyrene	200		27	5.0

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\1AE07008.D
Lab Smp Id: 680-89985-A-5-A Client Smp ID: HP0333A-CSD
Inj Date : 07-MAY-2013 14:06
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89985-a-5-a
Misc Info : 680-89985-A-5-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\a-bFASTPAHi-m.m
Meth Date : 07-May-2013 13:04 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.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	15.260	Weight Extracted
M	27.000	% 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	2.549	2.544	(1.000)	1279194	40.0000	
*	6 Acenaphthene-d10	164	3.575	3.575	(1.000)	668542	40.0000	
*	10 Phenanthrene-d10	188	4.526	4.526	(1.000)	911020	40.0000	
$	14 o-Terphenyl	230	4.825	4.820	(1.066)	89191	6.84049	614.0587
*	18 Chrysene-d12	240	6.550	6.545	(1.000)	855872	40.0000	
*	23 Perylene-d12	264	7.645	7.630	(1.000)	1127756	40.0000	
	2 Naphthalene	128	2.560	2.555	(1.004)	49029	1.62758	146.1045
	3 2-Methylnaphthalene	141	2.966	2.961	(1.163)	27275	1.78158	159.9294
	4 1-Methylnaphthalene	142	3.019	3.014	(1.184)	29490	1.60708	144.2647
	5 Acenaphthylene	152	3.489	3.484	(0.976)	7118	0.22659	20.3402
	9 Fluorene	166	3.906	3.906	(1.093)	5620	0.27336	24.5387(Q)
	11 Phenanthrene	178	4.542	4.537	(1.004)	76709	3.39875	305.0995
	12 Anthracene	178	4.574	4.574	(1.011)	14654	0.60952	54.7151
	13 Carbazole	167	4.713	4.707	(1.041)	7977	0.36902	33.1264

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.407	5.402	(1.195)	63021	2.42719	217.8848
16 Pyrene	202	5.573	5.568	(0.851)	60594	2.20254	197.7179
17 Benzo(a)anthracene	228	6.545	6.529	(0.999)	66217	2.75288	247.1214
19 Chrysene	228	6.566	6.561	(1.002)	87175	3.22108	289.1506
20 Benzo(b)fluoranthene	252	7.362	7.352	(0.963)	107738	3.61434	324.4528(M)
21 Benzo(k)fluoranthene	252	7.373	7.373	(0.964)	62934	1.70184	152.7711(M)
22 Benzo(a)pyrene	252	7.592	7.576	(0.993)	76120	2.48651	223.2097
24 Indeno(1,2,3-cd)pyrene	276	8.404	8.388	(1.099)	59340	2.31381	207.7062(M)
25 Dibenzo(a,h)anthracene	278	8.431	8.410	(1.103)	20465	0.77847	69.8819
26 Benzo(g,h,i)perylene	276	8.628	8.602	(1.129)	69462	2.51872	226.1005

QC Flag Legend

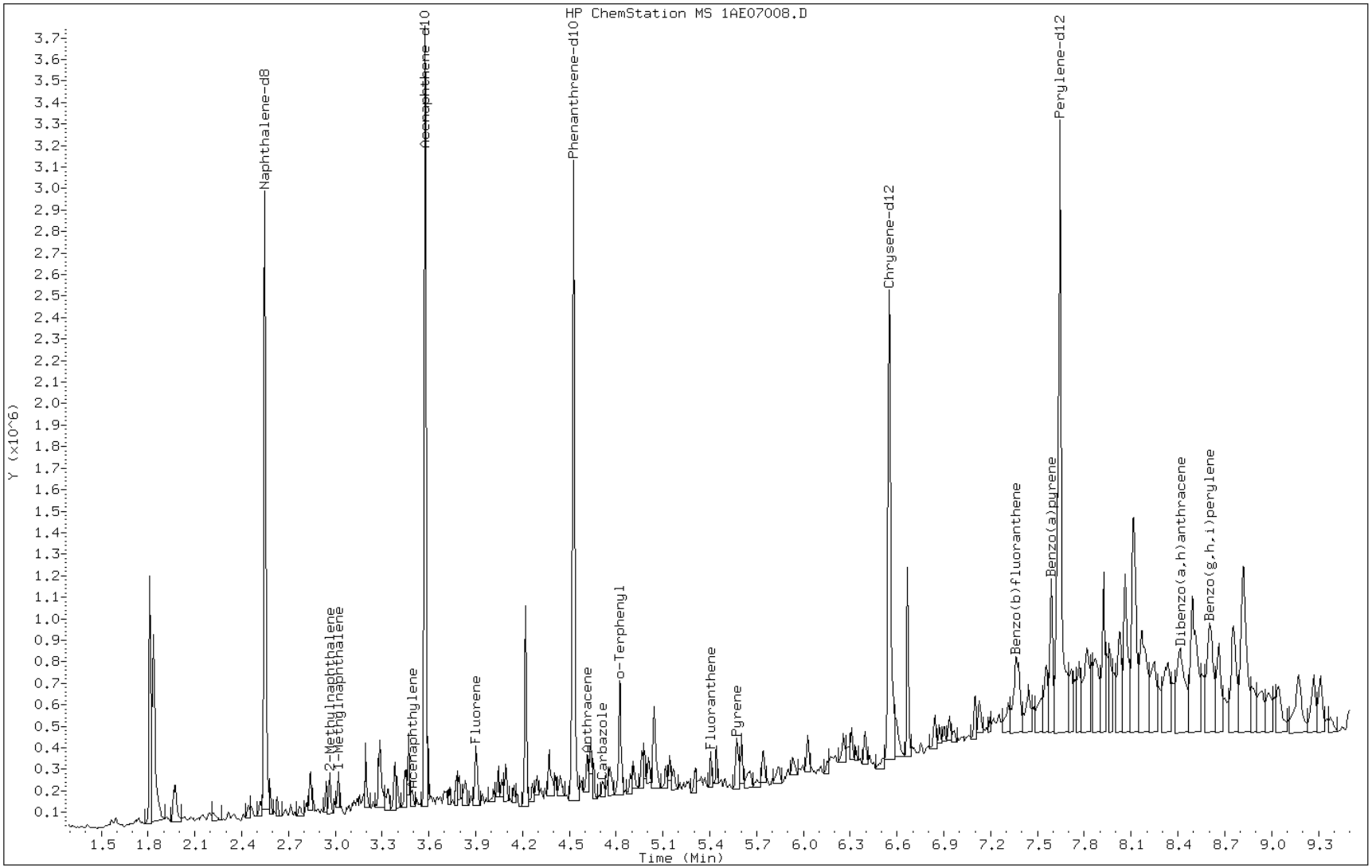
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE07008.D

Date: 07-MAY-2013 14:06

Client ID: HP0333A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-5-a Operator: SCC



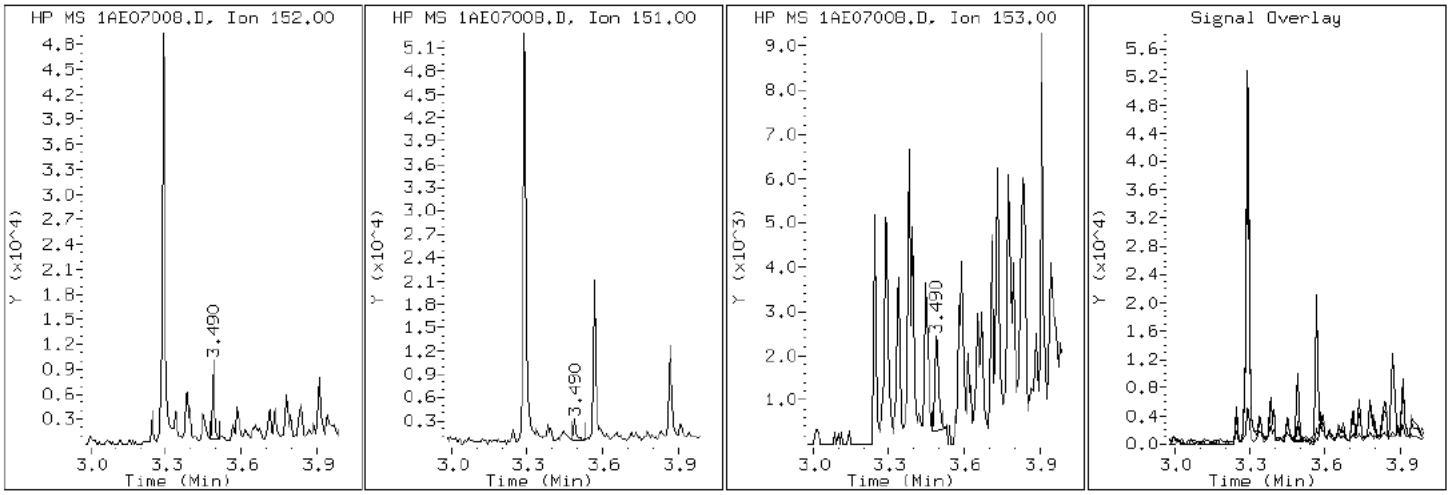
Data File: 1AE07008.D

Date: 07-MAY-2013 14:06

Client ID: HP0333A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-5-a Operator: SCC

5 Acenaphthylene



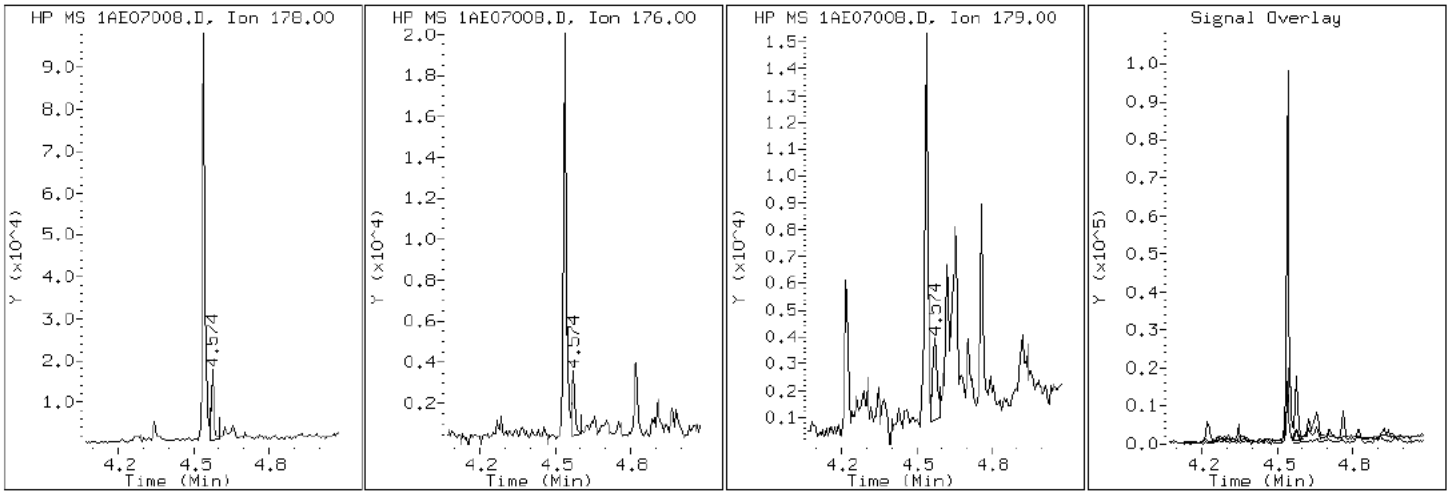
Data File: 1AE07008.D

Date: 07-MAY-2013 14:06

Client ID: HP0333A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-5-a Operator: SCC

12 Anthracene



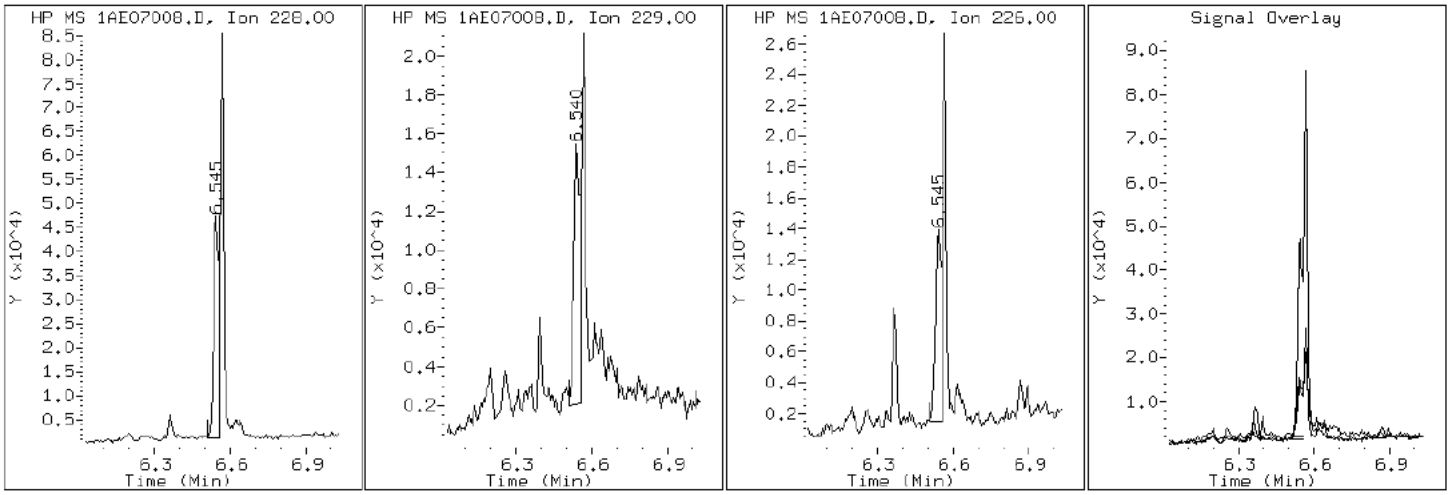
Data File: 1AE07008.D

Date: 07-MAY-2013 14:06

Client ID: HP0333A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-5-a Operator: SCC

17 Benzo(a)anthracene



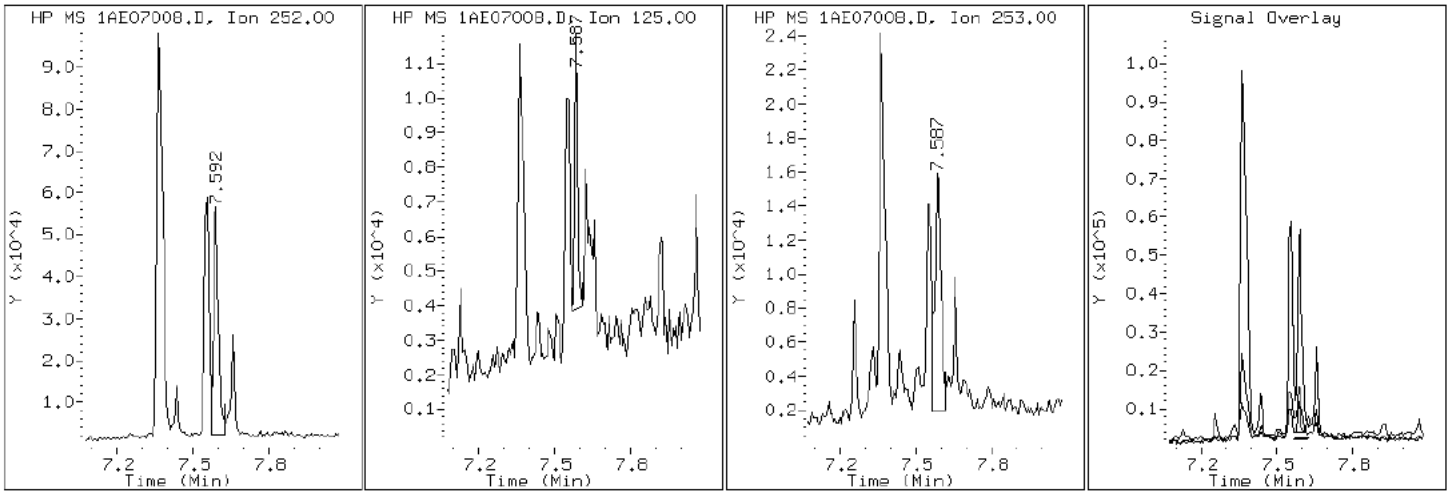
Data File: 1AE07008.D

Date: 07-MAY-2013 14:06

Client ID: HP0333A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-5-a Operator: SCC

22 Benzo(a)pyrene



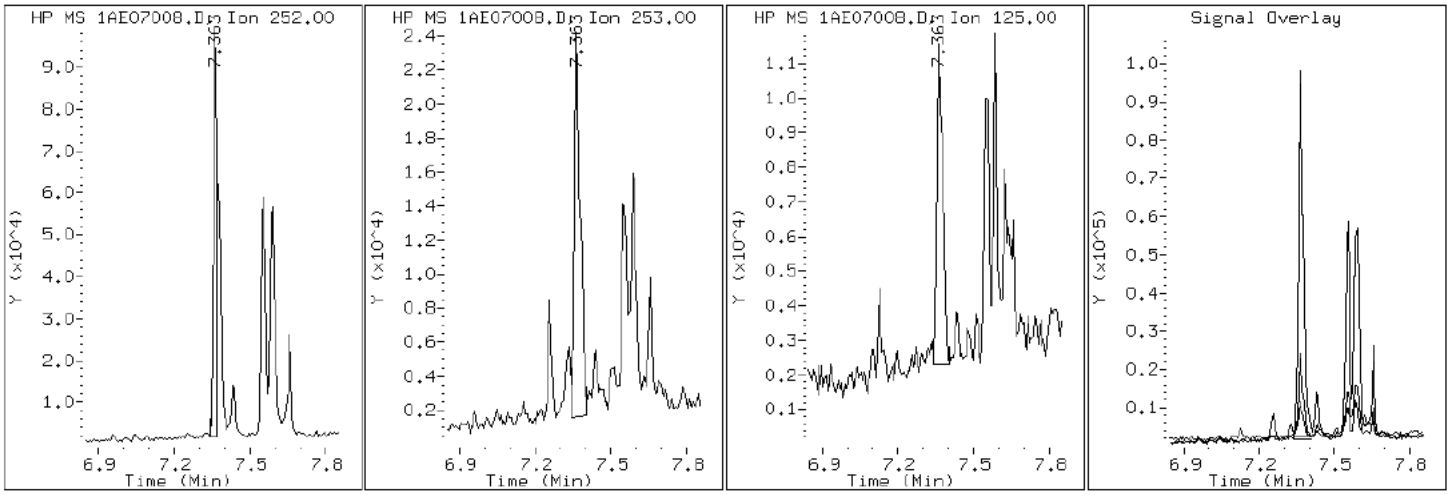
Data File: 1AE07008.D

Date: 07-MAY-2013 14:06

Client ID: HP0333A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-5-a Operator: SCC

20 Benzo(b)fluoranthene



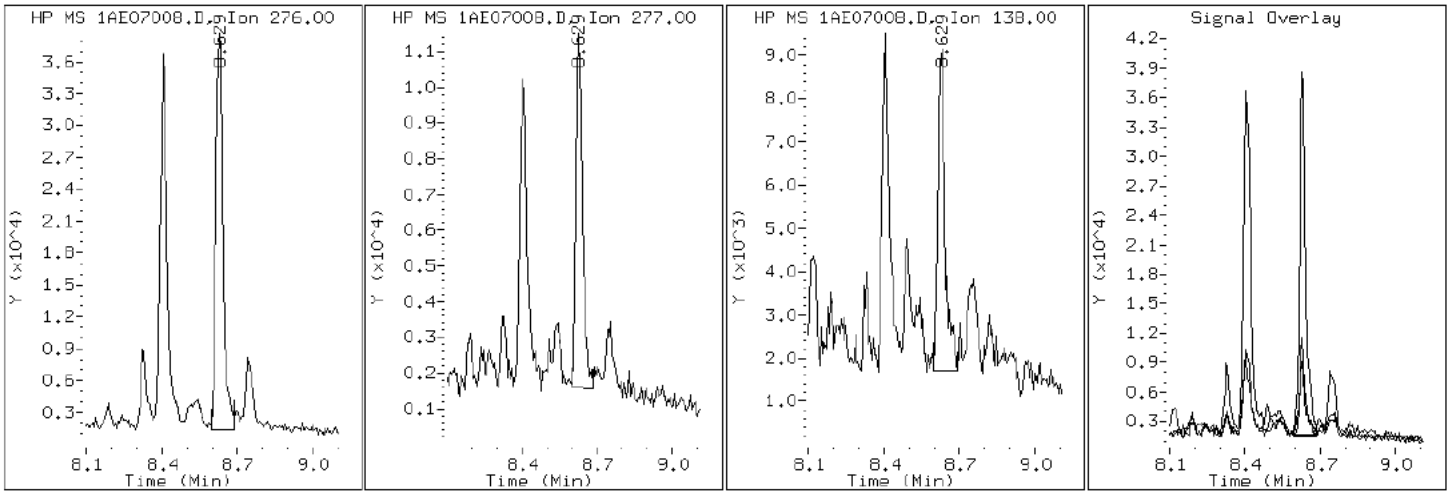
Data File: 1AE07008.D

Date: 07-MAY-2013 14:06

Client ID: HP0333A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-5-a Operator: SCC

26 Benzo(g,h,i)perylene



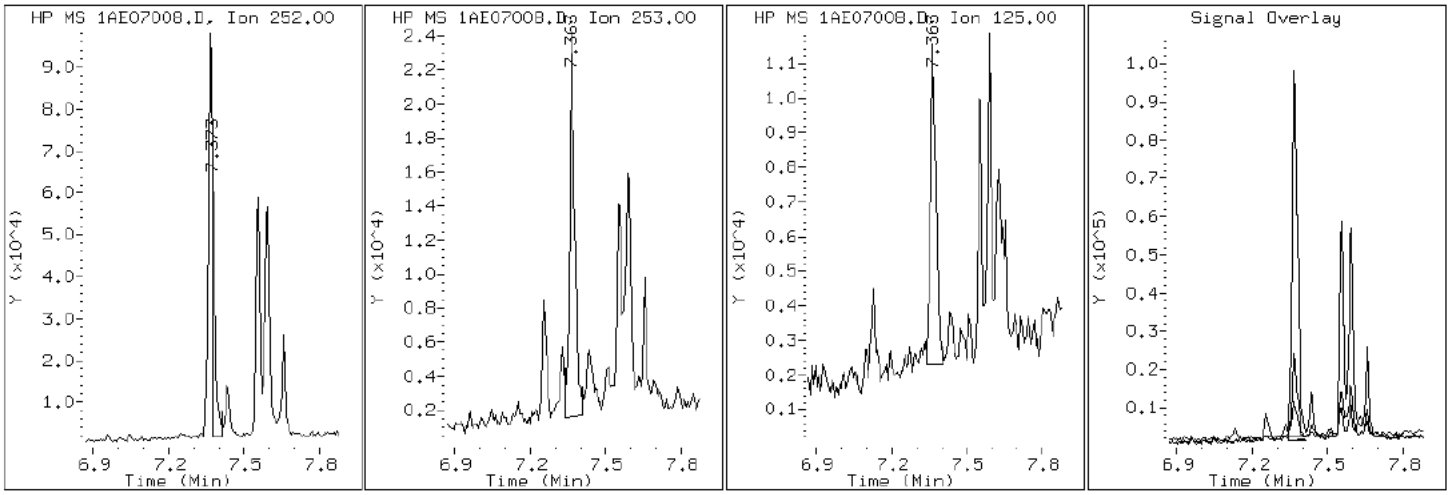
Data File: 1AE07008.D

Date: 07-MAY-2013 14:06

Client ID: HP0333A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-5-a Operator: SCC

21 Benzo(k)fluoranthene



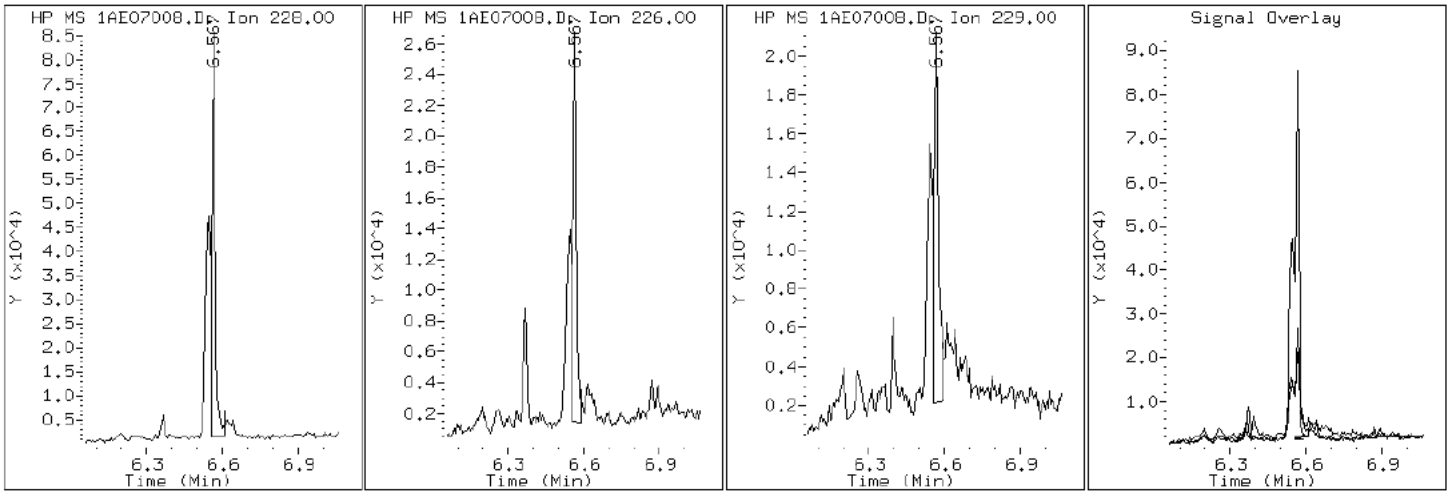
Data File: 1AE07008.D

Date: 07-MAY-2013 14:06

Client ID: HP0333A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-5-a Operator: SCC

19 Chrysene



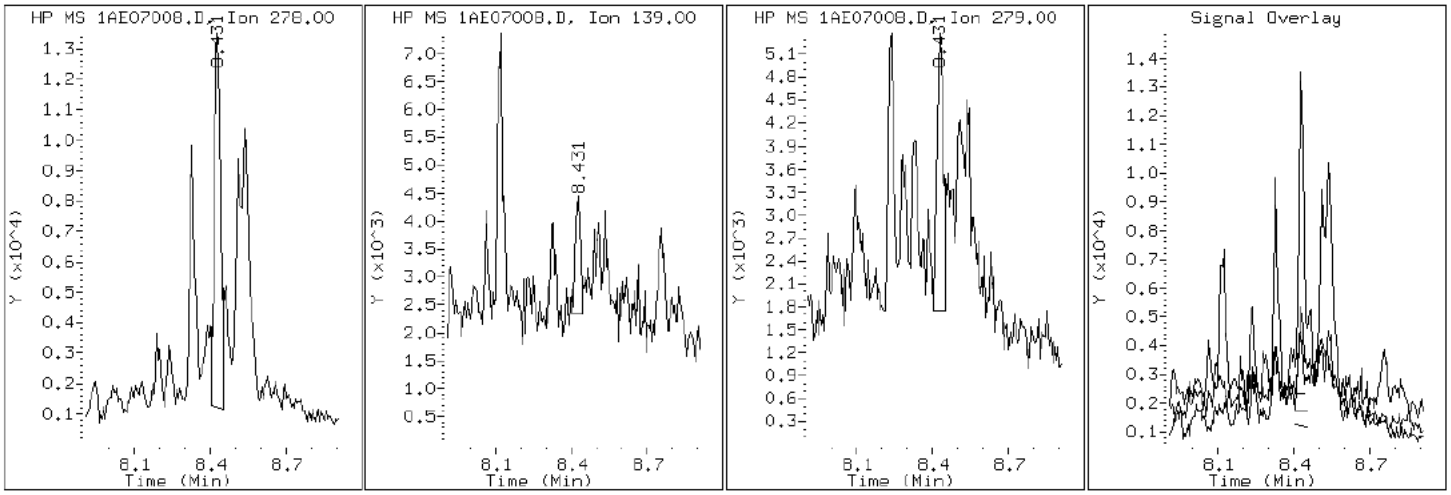
Data File: 1AE07008.D

Date: 07-MAY-2013 14:06

Client ID: HP0333A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-5-a Operator: SCC

25 Dibenzo(a,h)anthracene



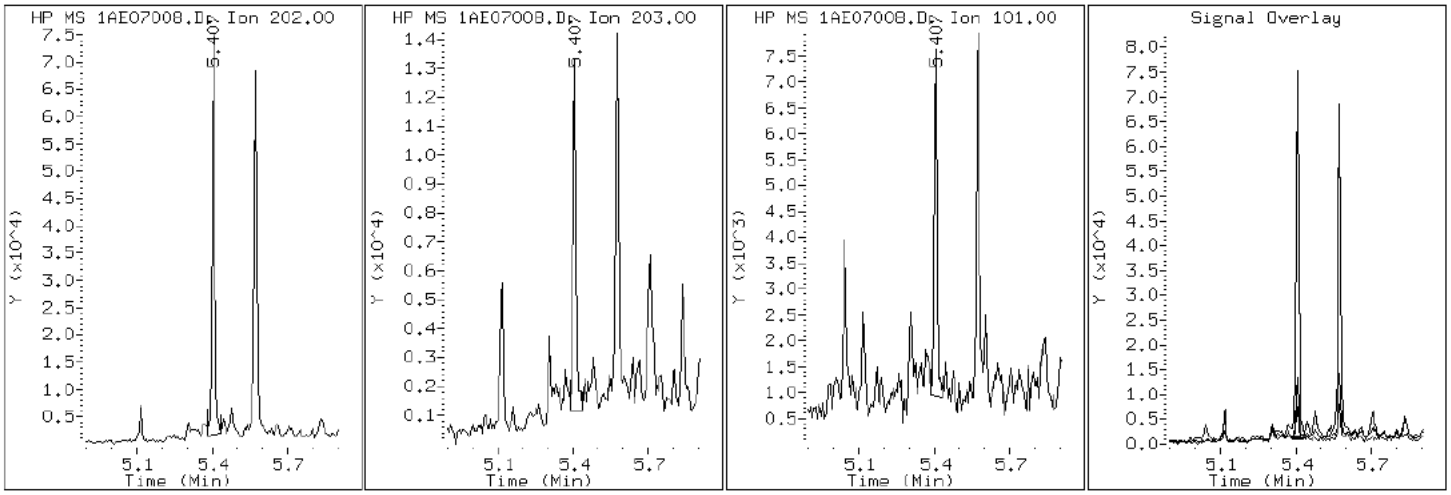
Data File: 1AE07008.D

Date: 07-MAY-2013 14:06

Client ID: HP0333A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-5-a Operator: SCC

15 Fluoranthene



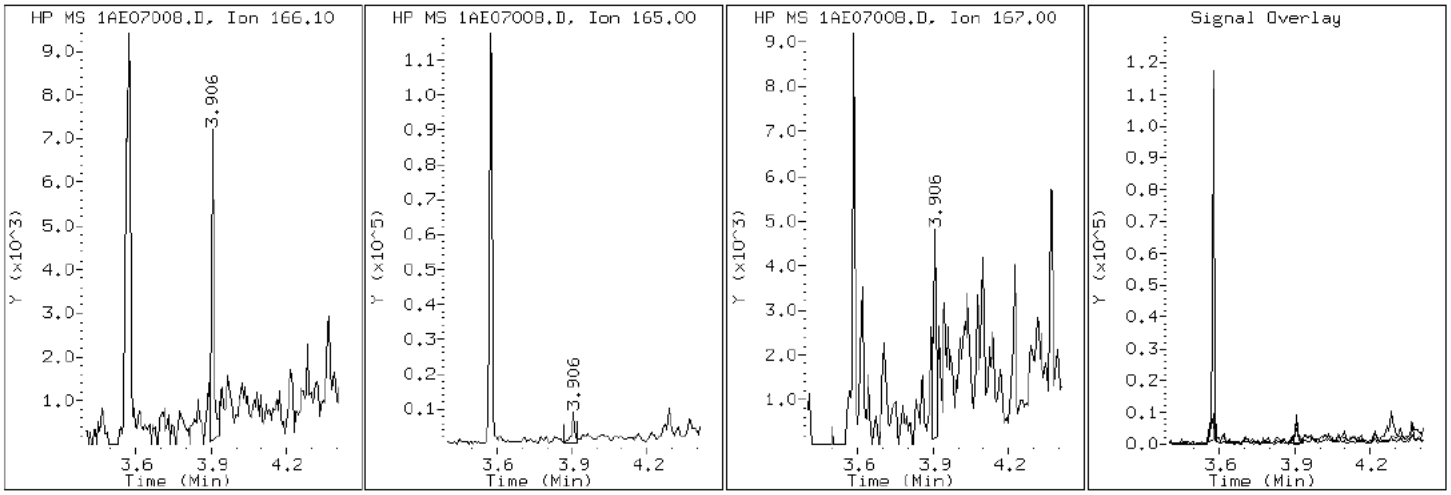
Data File: 1AE07008.D

Date: 07-MAY-2013 14:06

Client ID: HP0333A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-5-a Operator: SCC

9 Fluorene



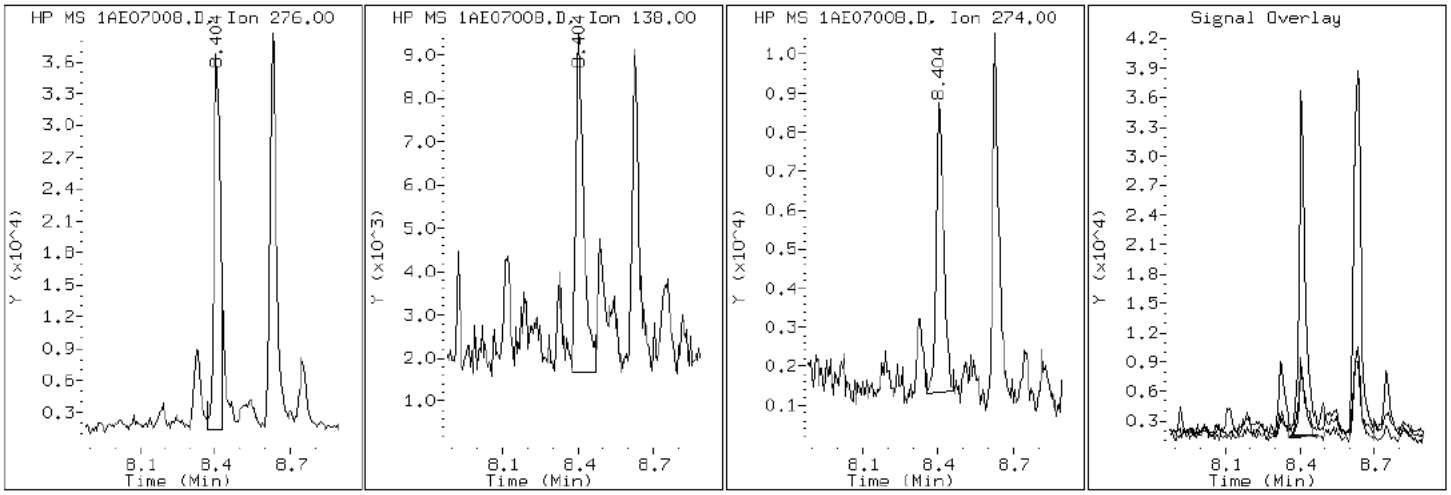
Data File: 1AE07008.D

Date: 07-MAY-2013 14:06

Client ID: HP0333A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-5-a Operator: SCC

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



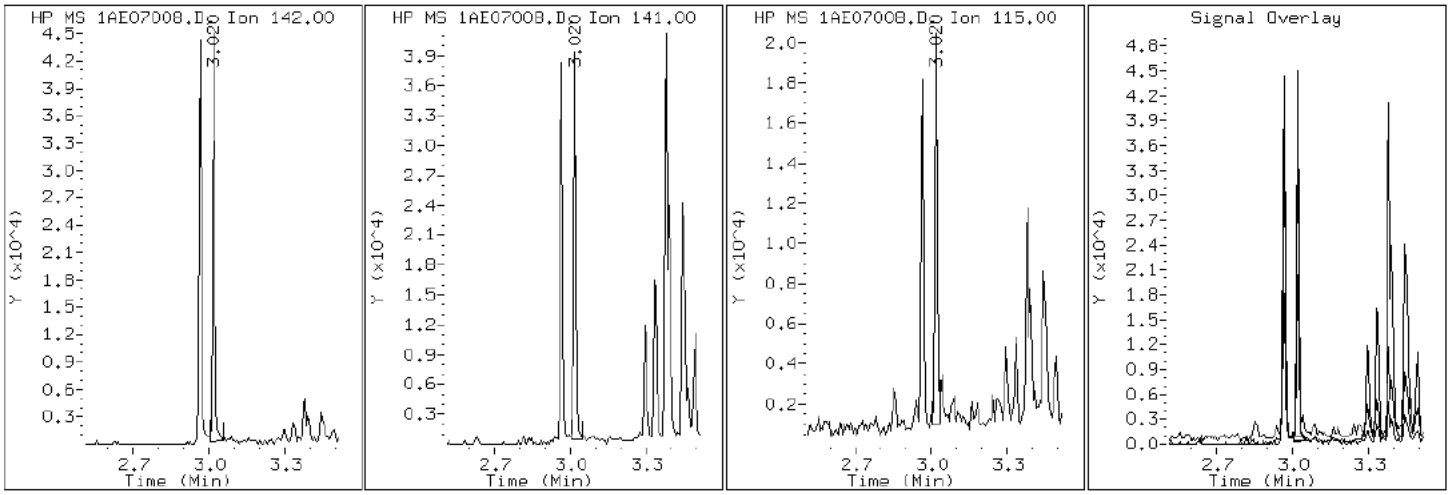
Data File: 1AE07008.D

Date: 07-MAY-2013 14:06

Client ID: HP0333A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-5-a Operator: SCC

4 1-Methylnaphthalene



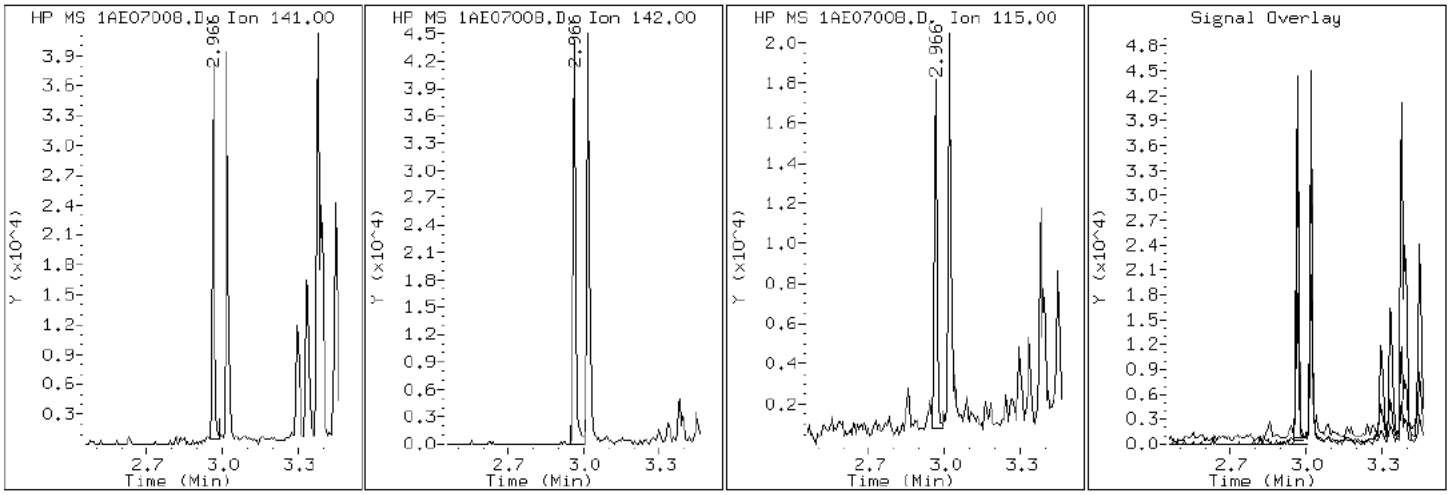
Data File: 1AE07008.D

Date: 07-MAY-2013 14:06

Client ID: HP0333A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-5-a Operator: SCC

3 2-Methylnaphthalene



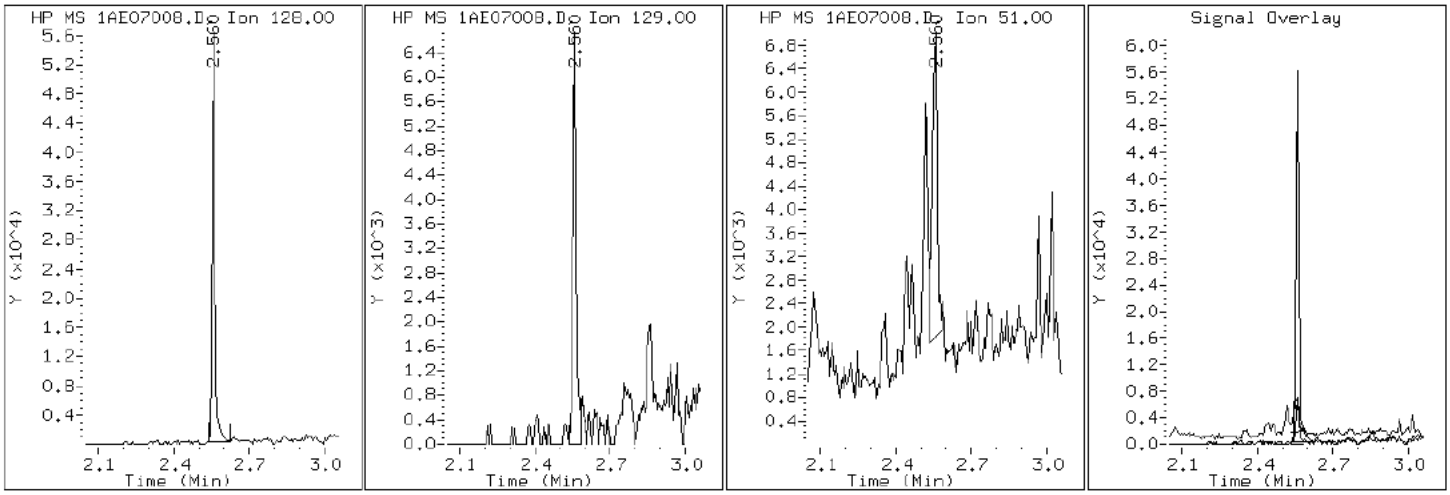
Data File: 1AE07008.D

Date: 07-MAY-2013 14:06

Client ID: HP0333A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-5-a Operator: SCC

2 Naphthalene



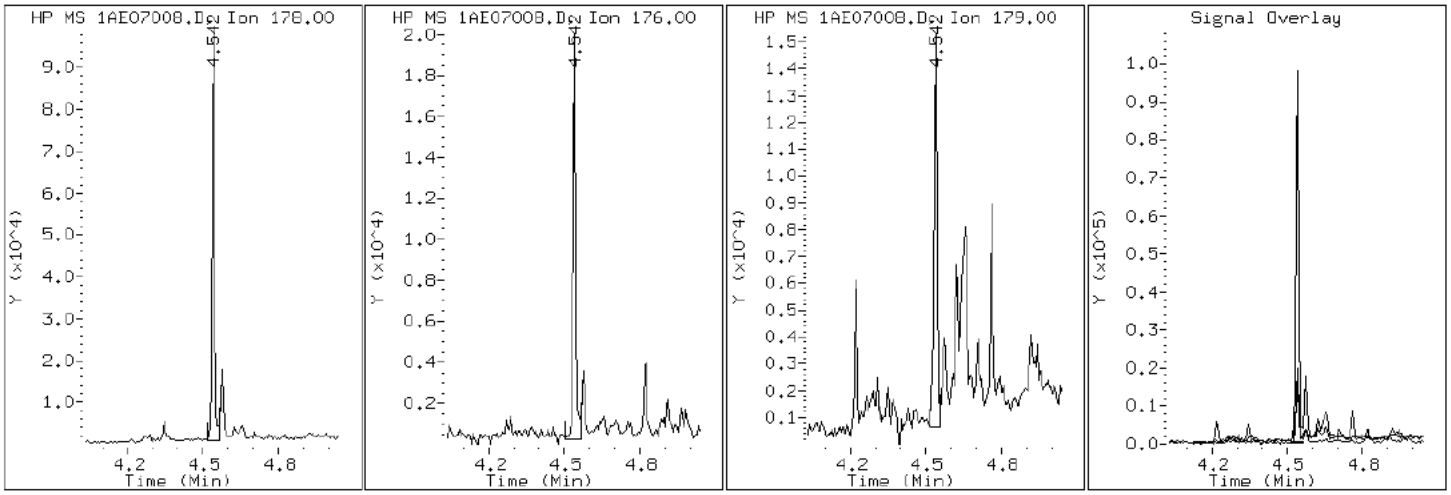
Data File: 1AE07008.D

Date: 07-MAY-2013 14:06

Client ID: HP0333A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-5-a Operator: SCC

11 Phenanthrene



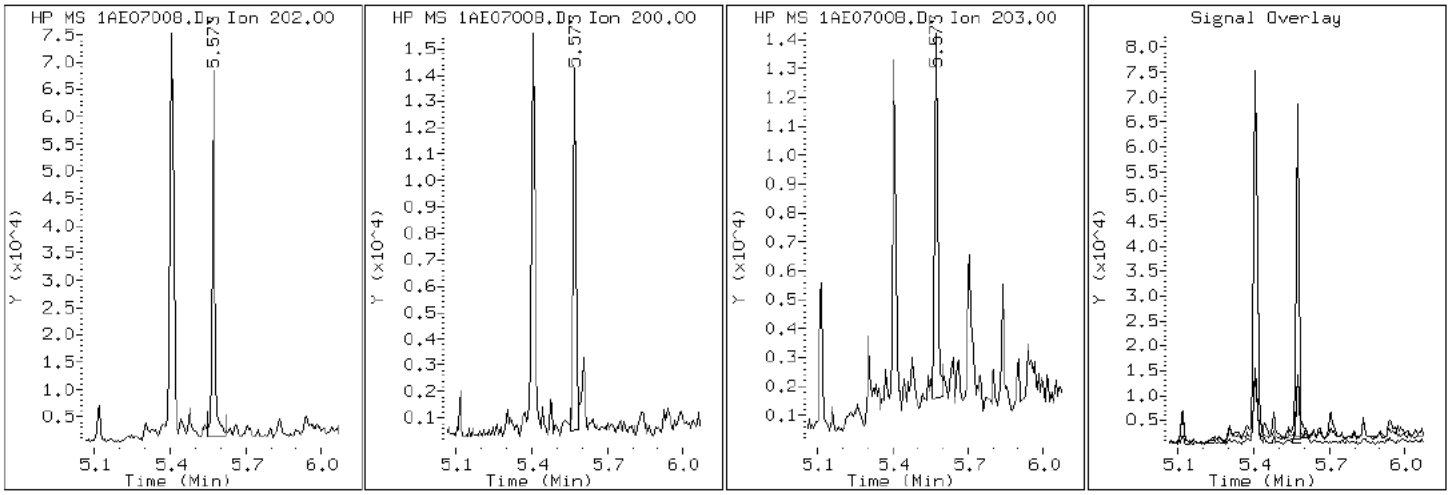
Data File: 1AE07008.D

Date: 07-MAY-2013 14:06

Client ID: HP0333A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-5-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE07008.D
Inj. Date and Time: 07-MAY-2013 14:06
Instrument ID: BSMA5973.i
Client ID: HP0333A-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

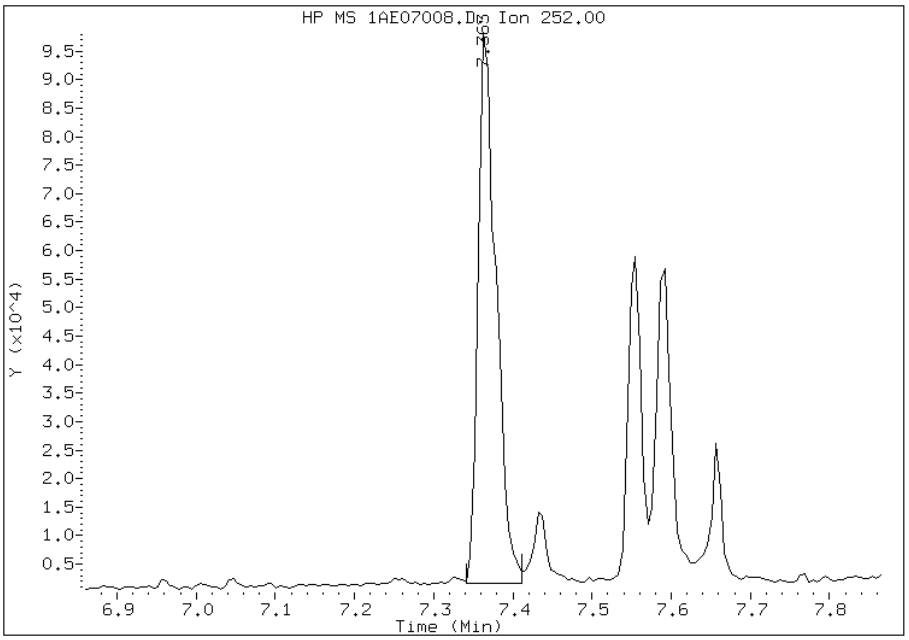
Processing Integration Results

RT: 7.36

Response: 150423

Amount: 5

Conc: 453



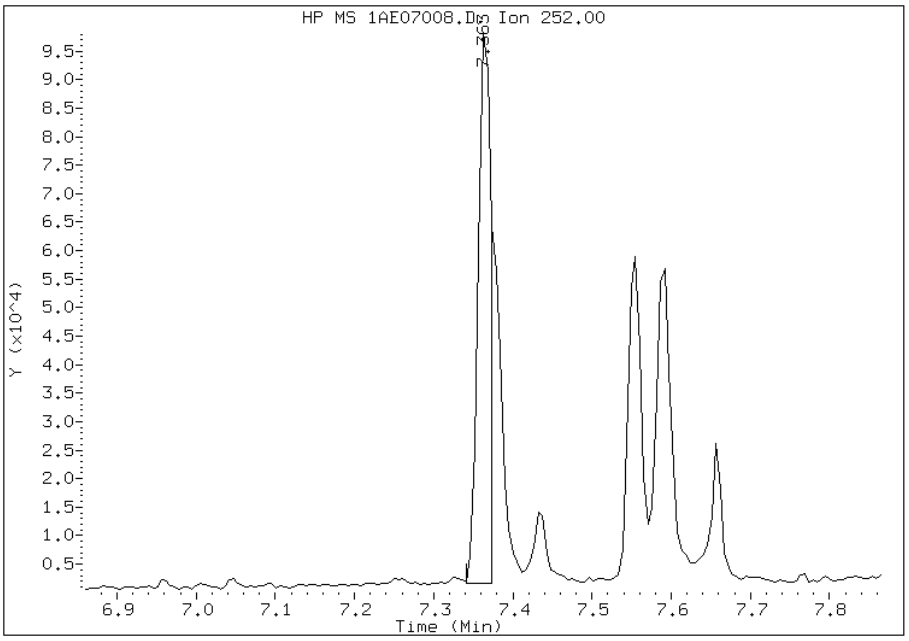
Manual Integration Results

RT: 7.36

Response: 107738

Amount: 4

Conc: 324



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:51
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE07008.D
Inj. Date and Time: 07-MAY-2013 14:06
Instrument ID: BSMA5973.i
Client ID: HP0333A-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

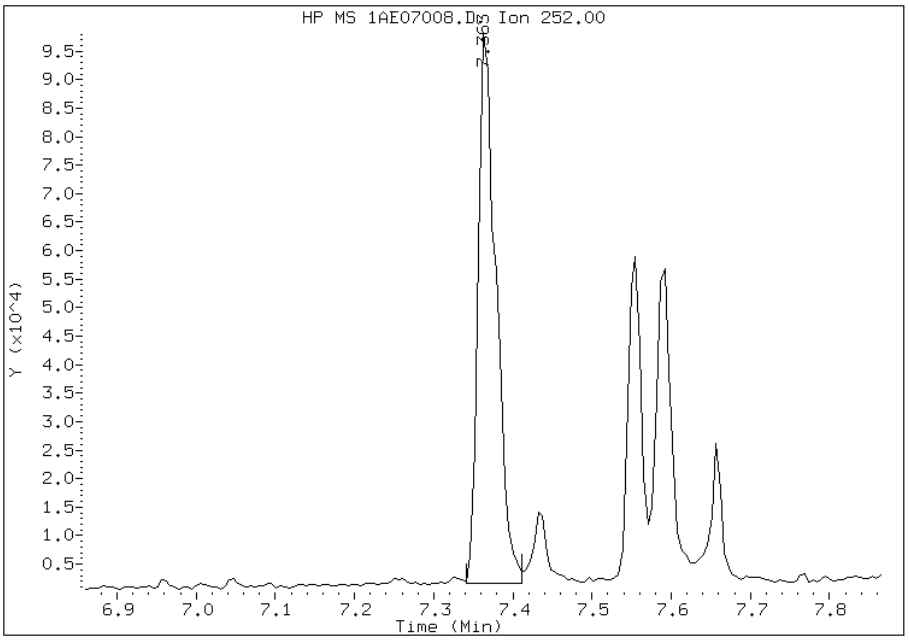
Processing Integration Results

RT: 7.36

Response: 150423

Amount: 4

Conc: 365



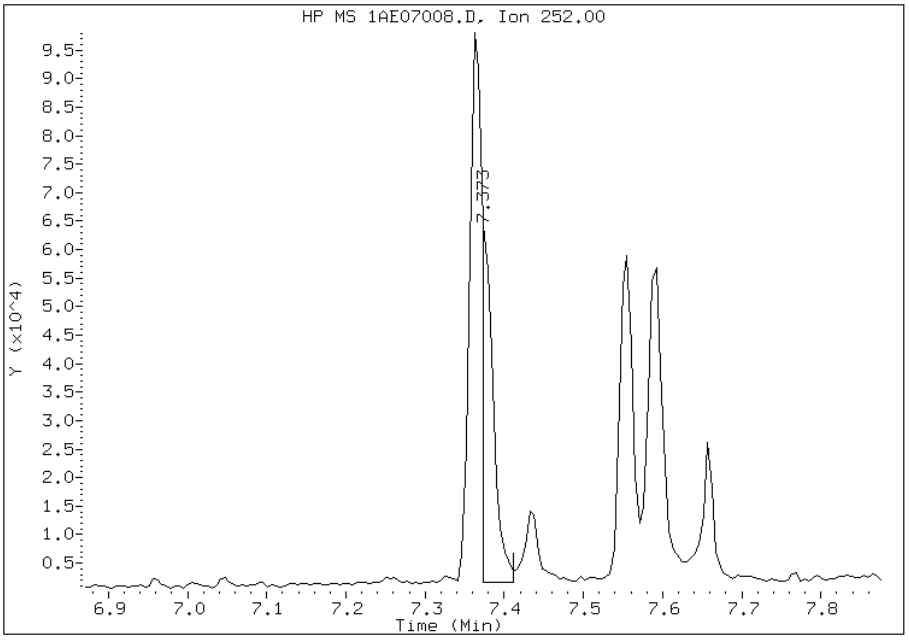
Manual Integration Results

RT: 7.37

Response: 62934

Amount: 2

Conc: 153



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:51
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE07008.D
Inj. Date and Time: 07-MAY-2013 14:06
Instrument ID: BSMA5973.i
Client ID: HP0333A-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

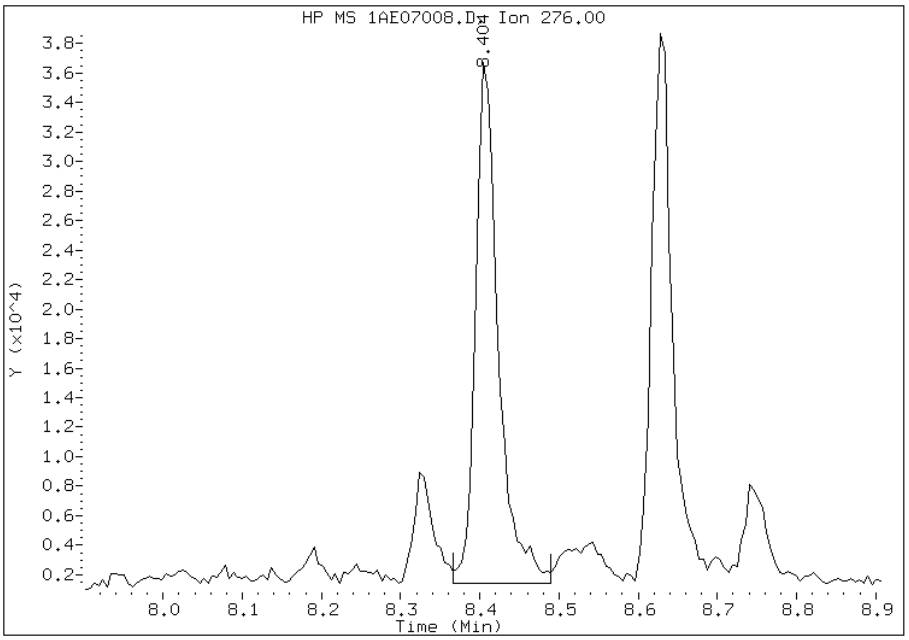
Processing Integration Results

RT: 8.40

Response: 70481

Amount: 3

Conc: 247



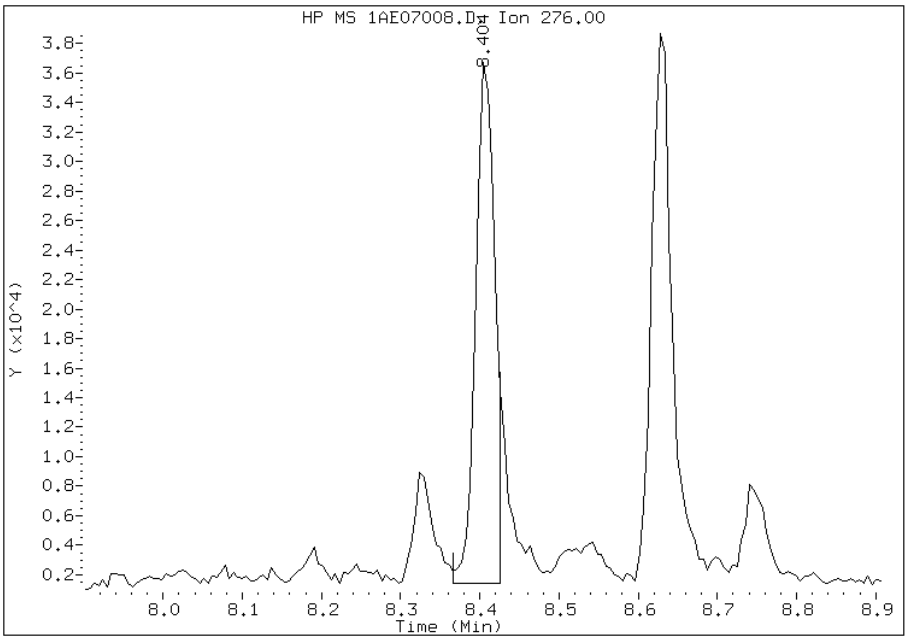
Manual Integration Results

RT: 8.40

Response: 59340

Amount: 2

Conc: 208



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:52
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: HP0333B-CS | Lab Sample ID: 680-89985-6

Matrix: Solid | Lab File ID: 1AE07010.D

Analysis Method: 8270C LL | Date Collected: 05/01/2013 09:30

Extract. Method: 3546 | Date Extracted: 05/06/2013 08:14

Sample wt/vol: 15.00(g) | Date Analyzed: 05/07/2013 14:36

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

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

% Moisture: 16.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137194 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	10	J	48	6.0
120-12-7	Anthracene	15		10	5.0
56-55-3	Benzo[a]anthracene	66		9.6	4.7
50-32-8	Benzo[a]pyrene	48		12	6.2
205-99-2	Benzo[b]fluoranthene	80		15	7.3
191-24-2	Benzo[g,h,i]perylene	39		24	5.3
207-08-9	Benzo[k]fluoranthene	30		9.6	4.3
218-01-9	Chrysene	64		11	5.4
53-70-3	Dibenz(a,h)anthracene	12	J	24	4.9
206-44-0	Fluoranthene	62		24	4.8
86-73-7	Fluorene	6.7	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	34		24	8.5
90-12-0	1-Methylnaphthalene	23	J	48	5.3
91-57-6	2-Methylnaphthalene	33	J	48	8.5
91-20-3	Naphthalene	48		48	5.3
85-01-8	Phenanthrene	59		9.6	4.7
129-00-0	Pyrene	56		24	4.4

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\1A050713.b\1AE07010.D
Lab Smp Id: 680-89985-A-6-A Client Smp ID: HP0333B-CS
Inj Date : 07-MAY-2013 14:36
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89985-a-6-a
Misc Info : 680-89985-A-6-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\a-bFASTPAHi-m.m
Meth Date : 07-May-2013 13:04 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.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	15.000	Weight Extracted
M	16.000	% 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	2.544	(1.000)	1335286	40.0000	
* 6 Acenaphthene-d10	164	3.577	3.575	(1.000)	707917	40.0000	
* 10 Phenanthrene-d10	188	4.528	4.526	(1.000)	1046429	40.0000	
$ 14 o-Terphenyl	230	4.827	4.820	(1.066)	85188	5.68804	451.4319
* 18 Chrysene-d12	240	6.552	6.545	(1.000)	899446	40.0000	
* 23 Perylene-d12	264	7.648	7.630	(1.000)	1108451	40.0000	
2 Naphthalene	128	2.556	2.555	(1.002)	18731	0.59568	47.2759
3 2-Methylnaphthalene	141	2.962	2.961	(1.161)	6650	0.41613	33.0258
4 1-Methylnaphthalene	142	3.021	3.014	(1.184)	5434	0.28369	22.5151
5 Acenaphthylene	152	3.491	3.484	(0.976)	4336	0.13035	10.3452
9 Fluorene	166	3.908	3.906	(1.093)	1836	0.08434	6.6933
11 Phenanthrene	178	4.544	4.537	(1.004)	19259	0.74289	58.9595
12 Anthracene	178	4.576	4.574	(1.011)	5021	0.18182	14.4300
13 Carbazole	167	4.715	4.707	(1.041)	1671	0.06730	5.3411(aQ)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	5.409	5.402	(1.195)	23353	0.78303	62.1454
16 Pyrene	202	5.575	5.568	(0.851)	20410	0.70594	56.0273
17 Benzo(a)anthracene	228	6.547	6.529	(0.999)	21007	0.83103	65.9546
19 Chrysene	228	6.568	6.561	(1.002)	22756	0.80009	63.4992
20 Benzo(b)fluoranthene	252	7.359	7.352	(0.962)	29308	1.00033	79.3915(M)
21 Benzo(k)fluoranthene	252	7.375	7.373	(0.964)	13598	0.37412	29.6917(M)
22 Benzo(a)pyrene	252	7.589	7.576	(0.992)	18007	0.59846	47.4964
24 Indeno(1,2,3-cd)pyrene	276	8.395	8.388	(1.098)	10784	0.42782	33.9537(M)
25 Dibenzo(a,h)anthracene	278	8.422	8.410	(1.101)	3809	0.14741	11.6995
26 Benzo(g,h,i)perylene	276	8.620	8.602	(1.127)	13336	0.49199	39.0468(M)

QC Flag Legend

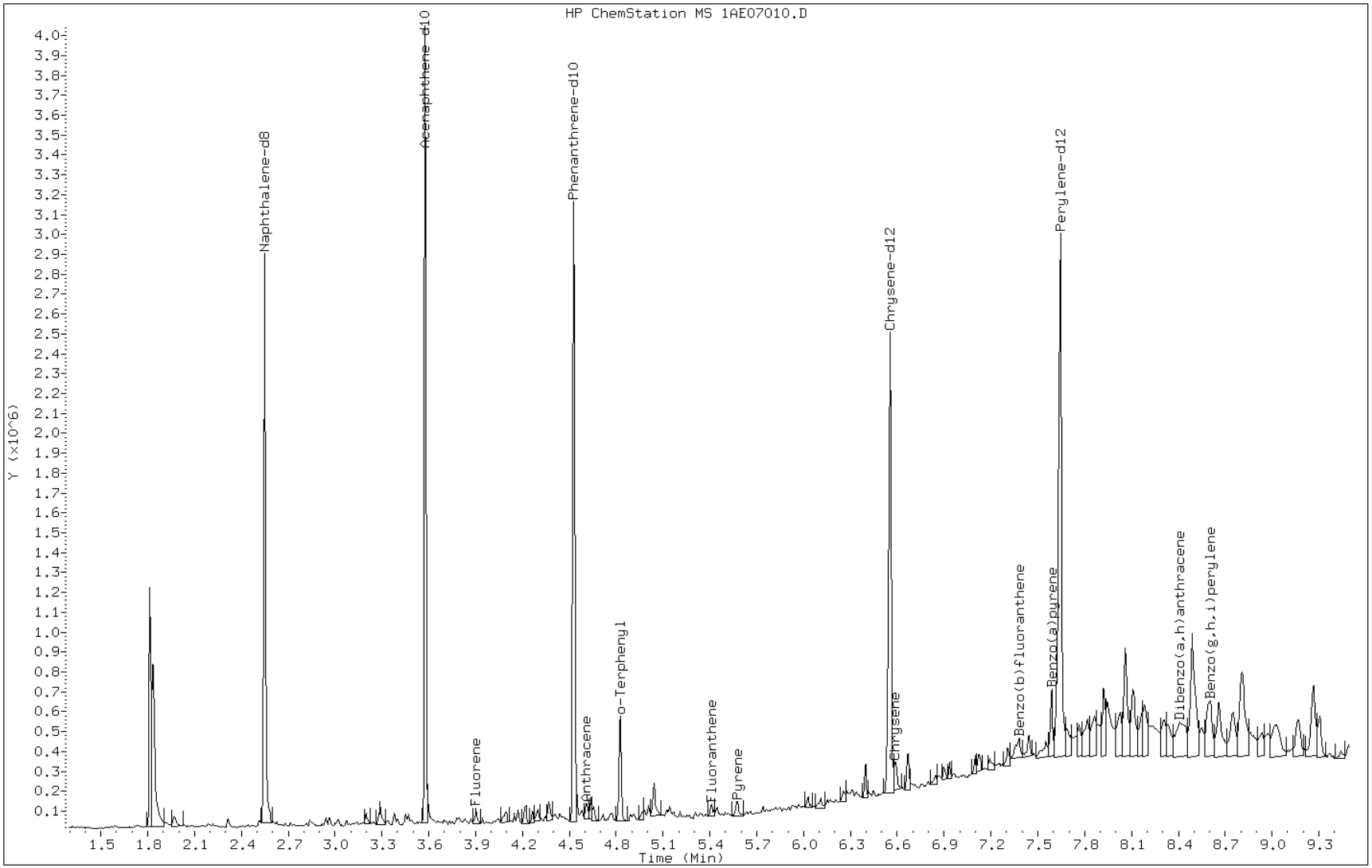
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE07010.D

Date: 07-MAY-2013 14:36

Client ID: HP0333B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-6-a Operator: SCC



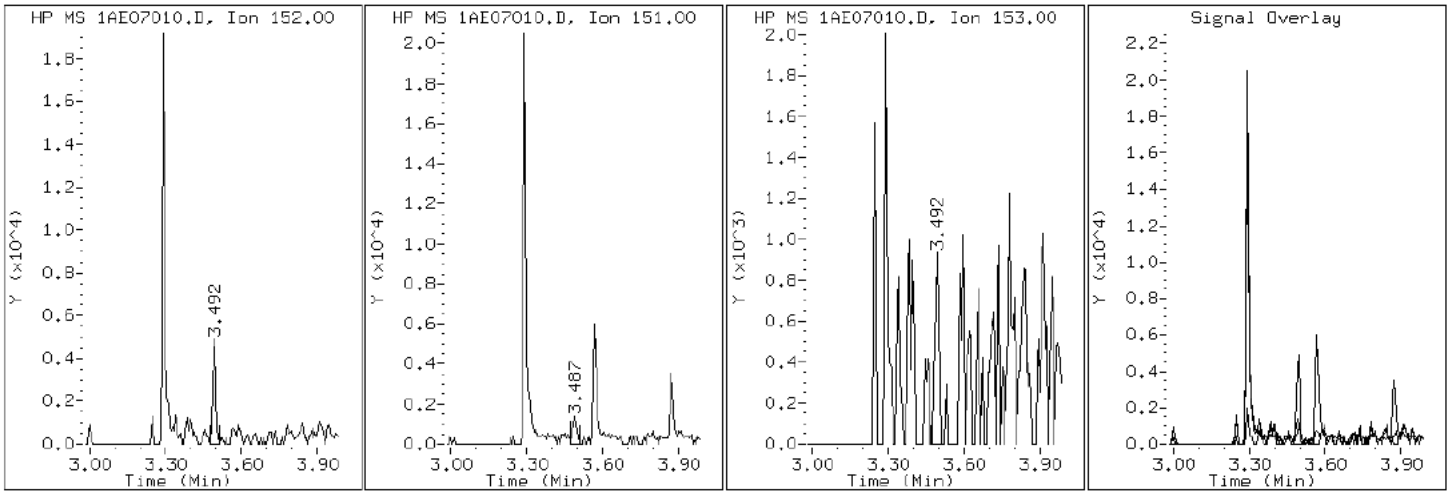
Data File: 1AE07010.D

Date: 07-MAY-2013 14:36

Client ID: HP0333B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-6-a Operator: SCC

5 Acenaphthylene



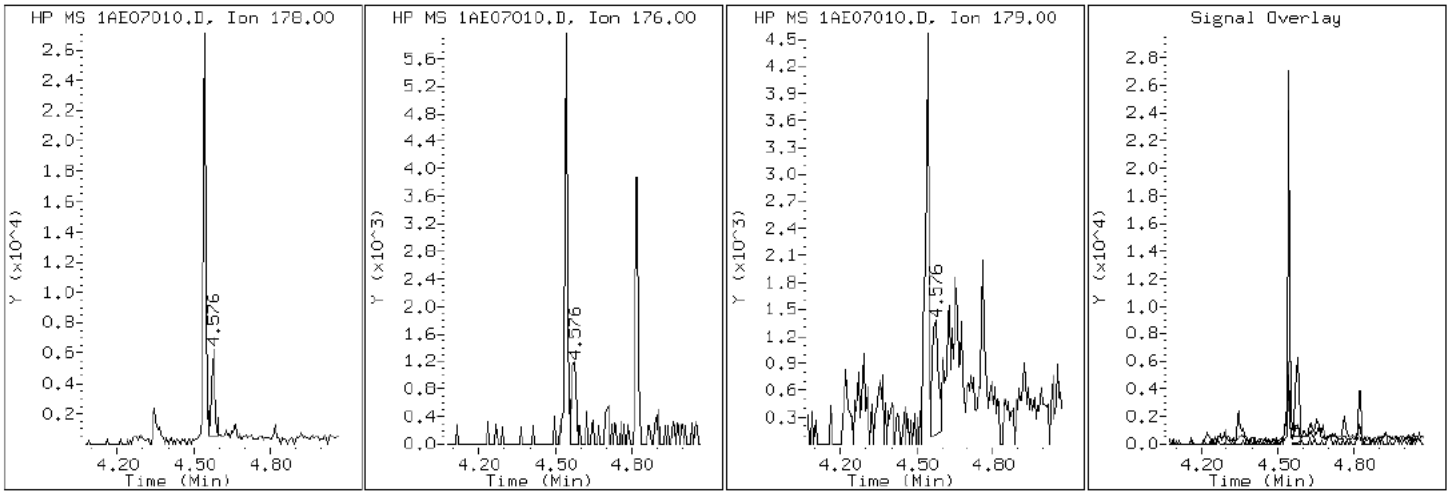
Data File: 1AE07010.D

Date: 07-MAY-2013 14:36

Client ID: HP0333B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-6-a Operator: SCC

12 Anthracene



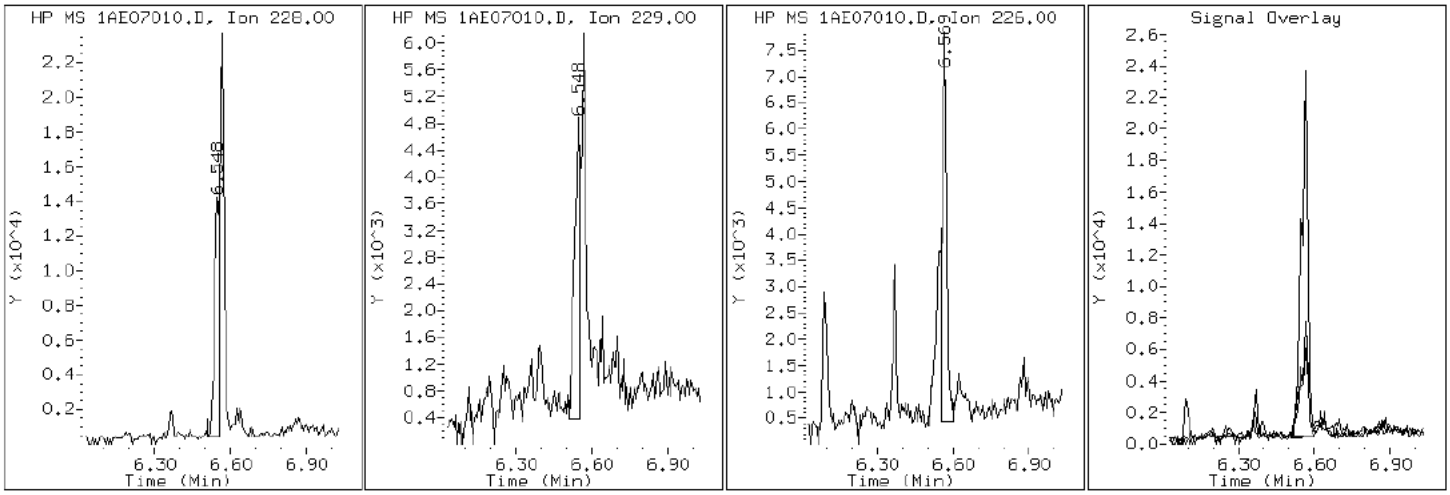
Data File: 1AE07010.D

Date: 07-MAY-2013 14:36

Client ID: HP0333B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-6-a Operator: SCC

17 Benzo(a)anthracene



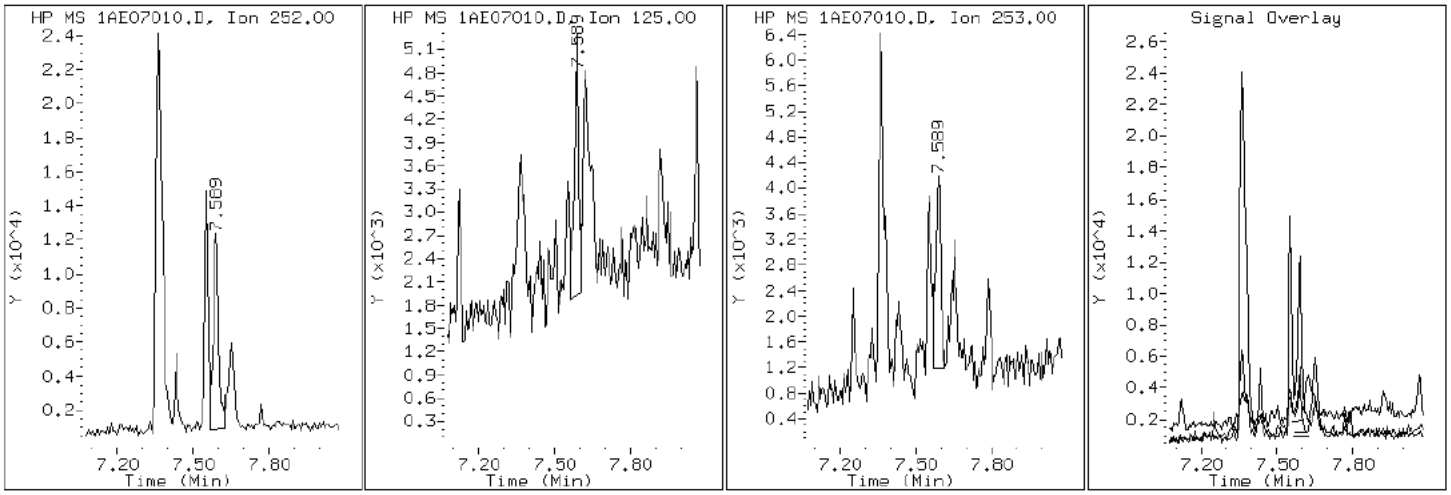
Data File: 1AE07010.D

Date: 07-MAY-2013 14:36

Client ID: HP0333B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-6-a Operator: SCC

22 Benzo(a)pyrene



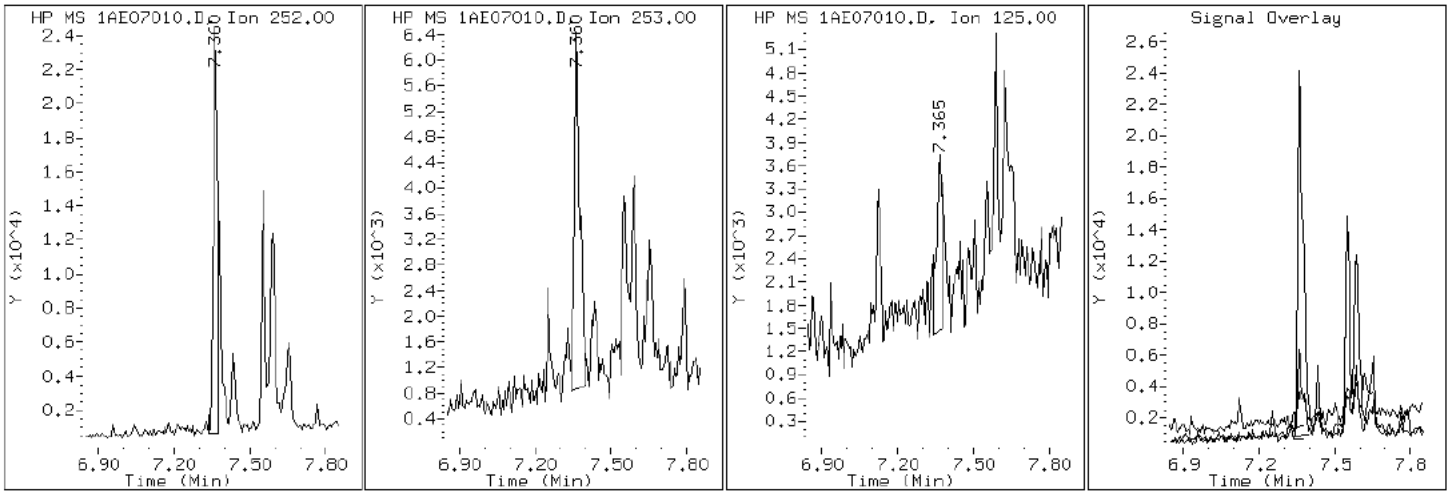
Data File: 1AE07010.D

Date: 07-MAY-2013 14:36

Client ID: HP0333B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-6-a Operator: SCC

20 Benzo(b)fluoranthene



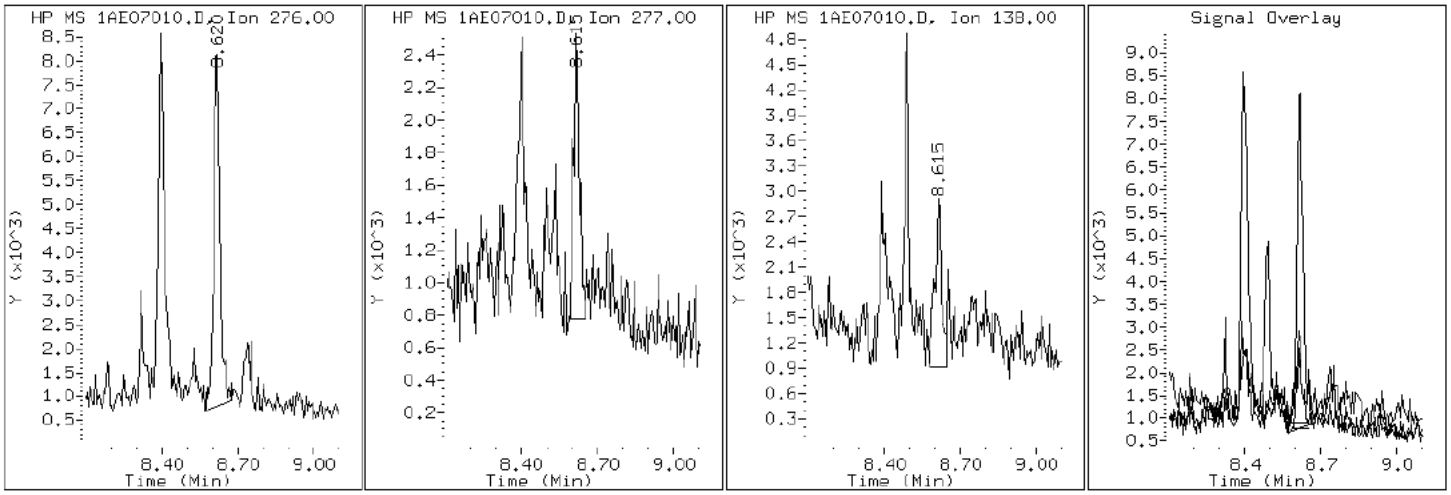
Data File: 1AE07010.D

Date: 07-MAY-2013 14:36

Client ID: HP0333B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-6-a Operator: SCC

26 Benzo(g,h,i)perylene



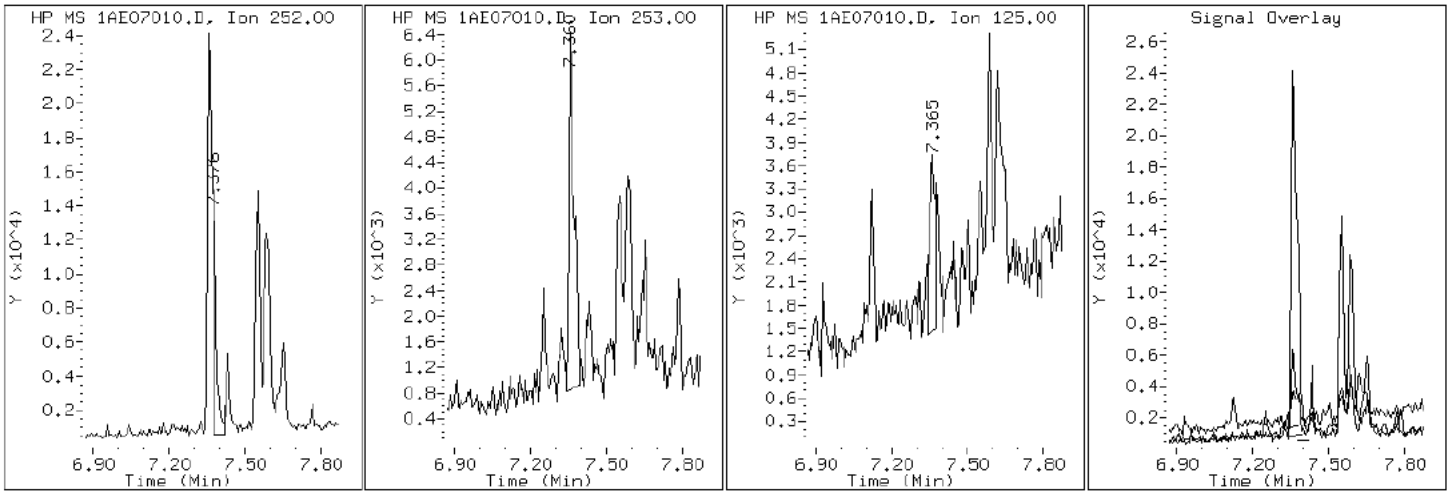
Data File: 1AE07010.D

Date: 07-MAY-2013 14:36

Client ID: HP0333B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-6-a Operator: SCC

21 Benzo(k)fluoranthene



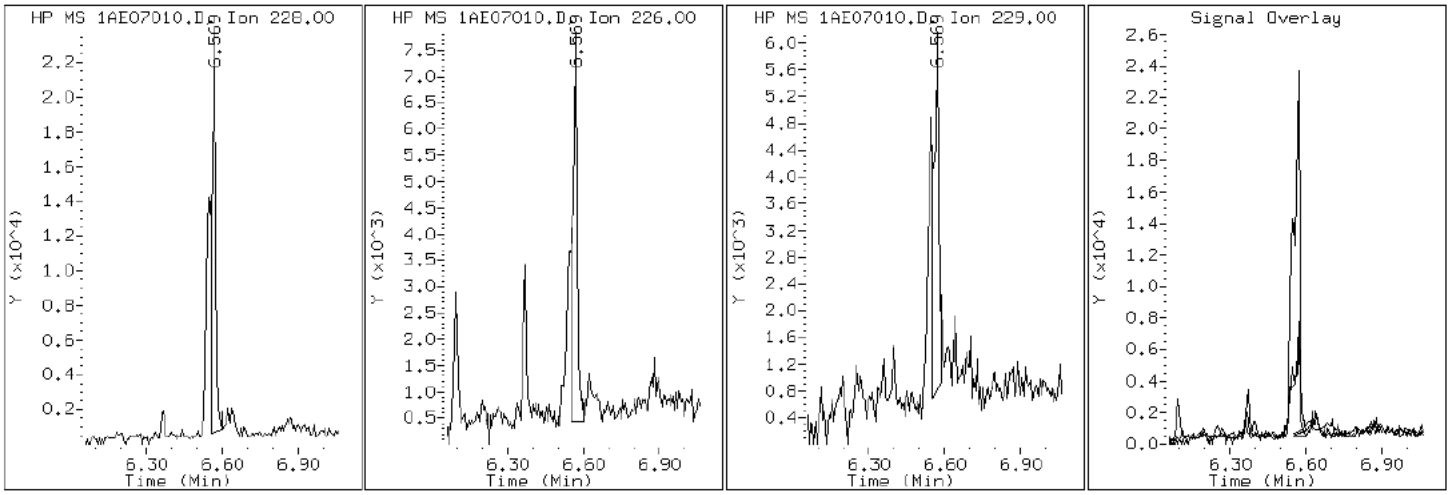
Data File: 1AE07010.D

Date: 07-MAY-2013 14:36

Client ID: HP0333B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-6-a Operator: SCC

19 Chrysene



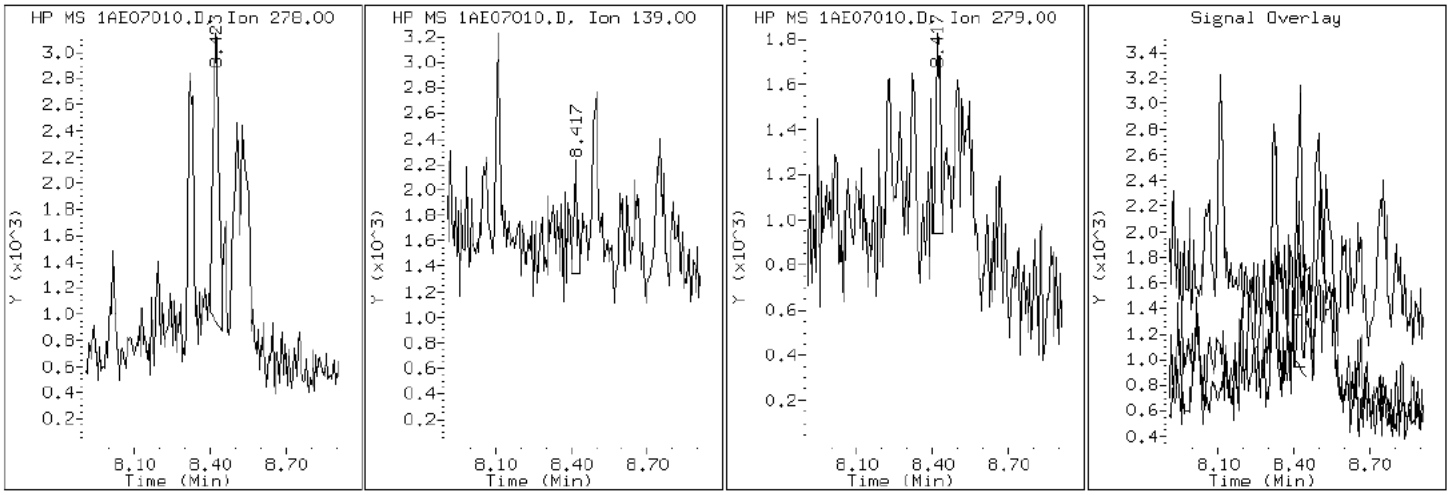
Data File: 1AE07010.D

Date: 07-MAY-2013 14:36

Client ID: HP0333B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-6-a Operator: SCC

25 Dibenzo(a,h)anthracene



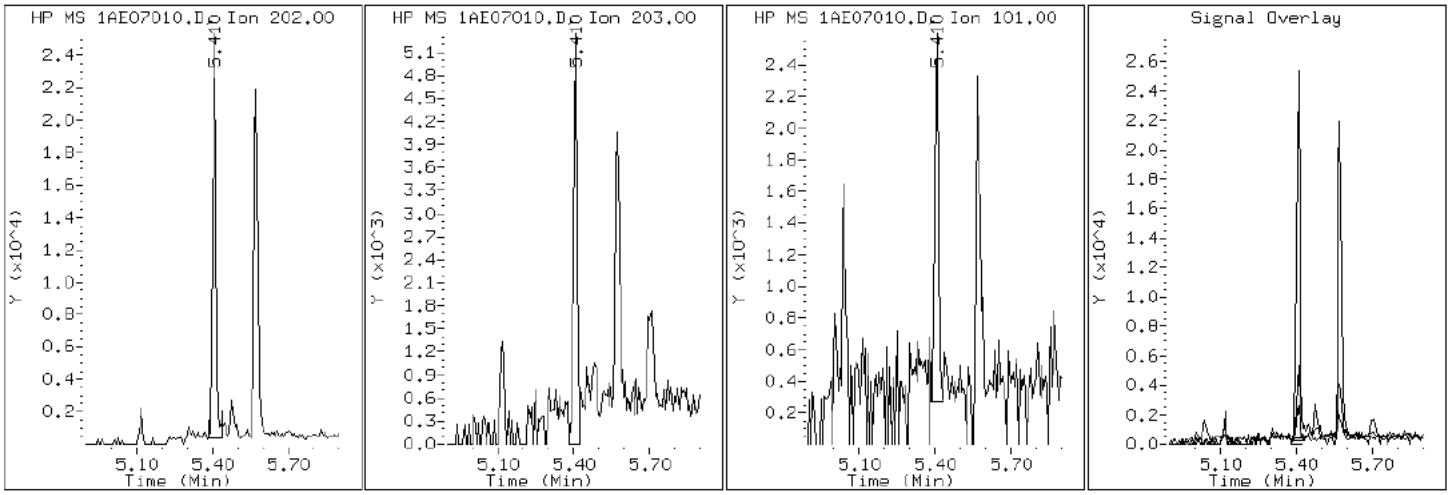
Data File: 1AE07010.D

Date: 07-MAY-2013 14:36

Client ID: HP0333B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-6-a Operator: SCC

15 Fluoranthene



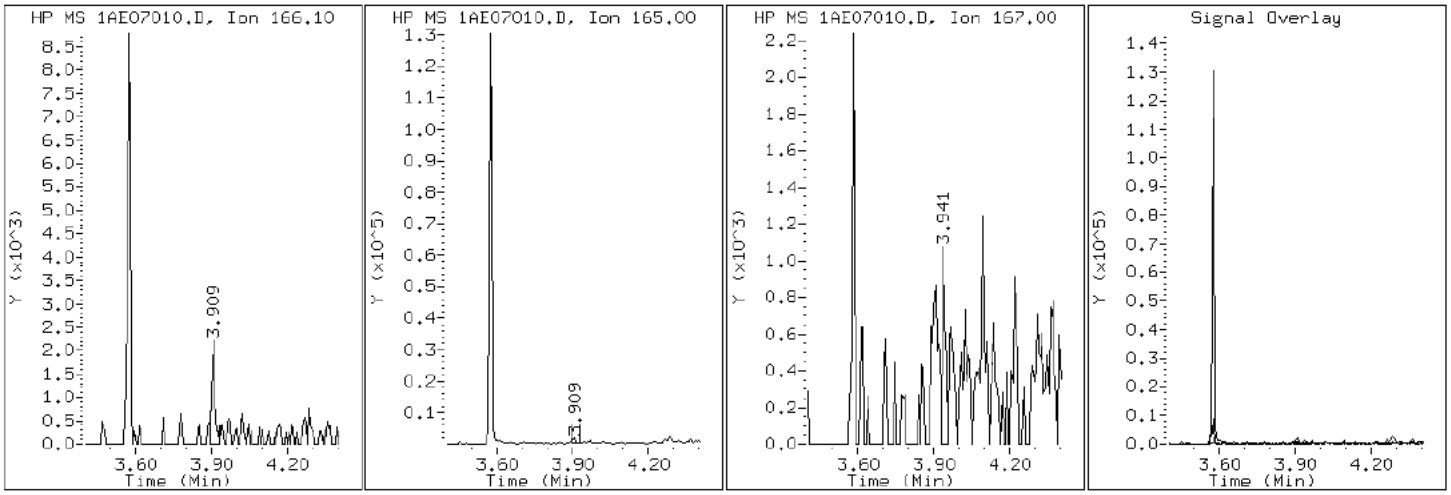
Data File: 1AE07010.D

Date: 07-MAY-2013 14:36

Client ID: HP0333B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-6-a Operator: SCC

9 Fluorene



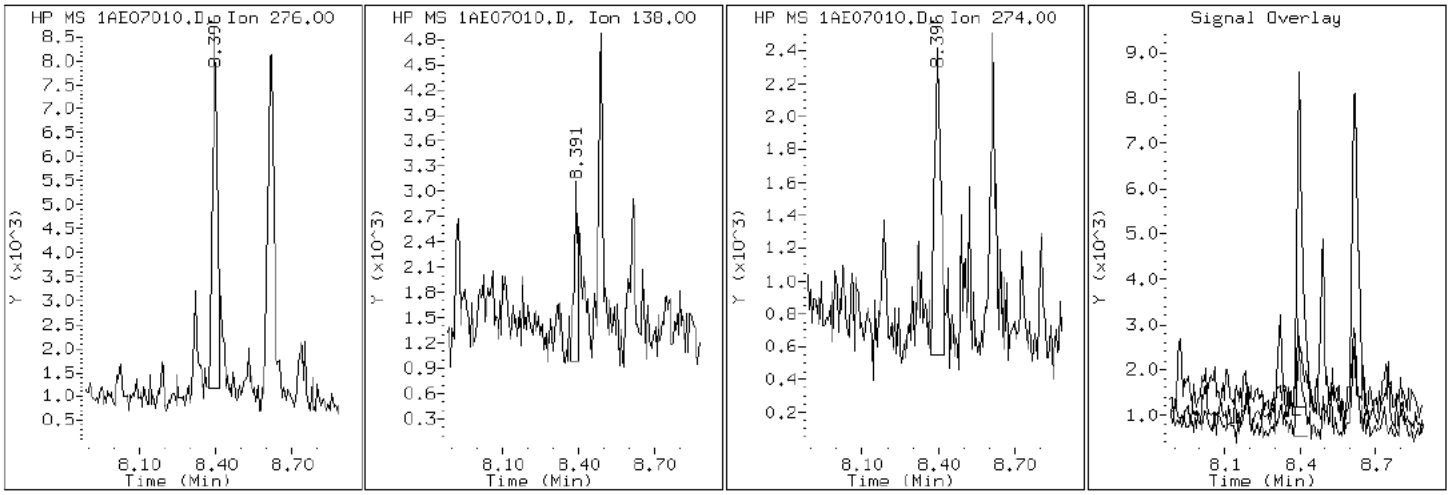
Data File: 1AE07010.D

Date: 07-MAY-2013 14:36

Client ID: HP0333B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-6-a Operator: SCC

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



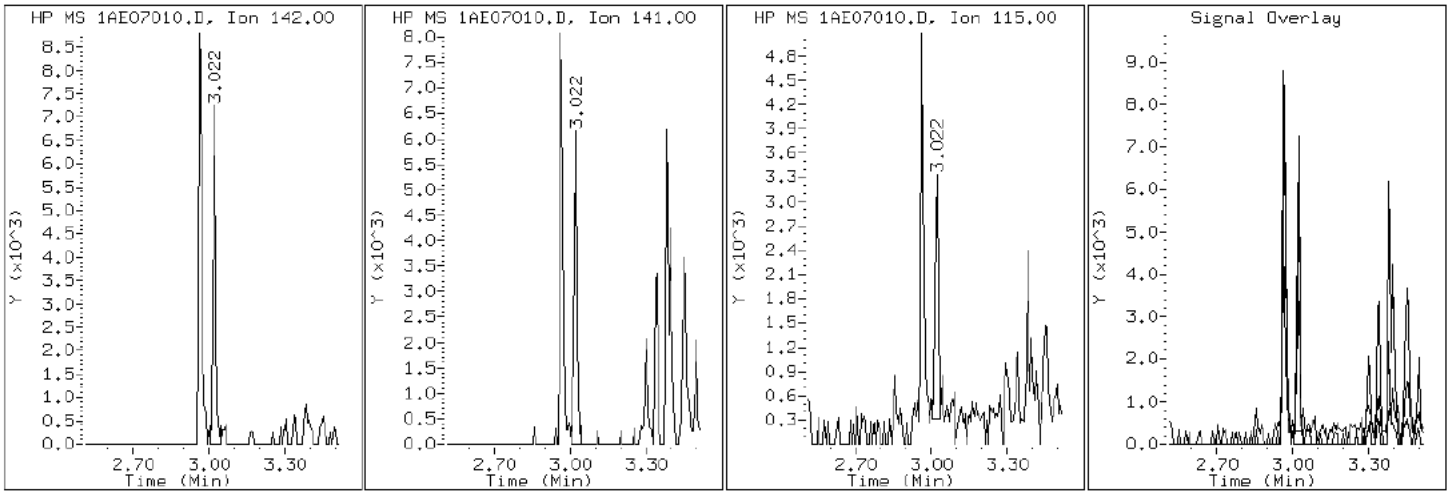
Data File: 1AE07010.D

Date: 07-MAY-2013 14:36

Client ID: HP0333B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-6-a Operator: SCC

4 1-Methylnaphthalene



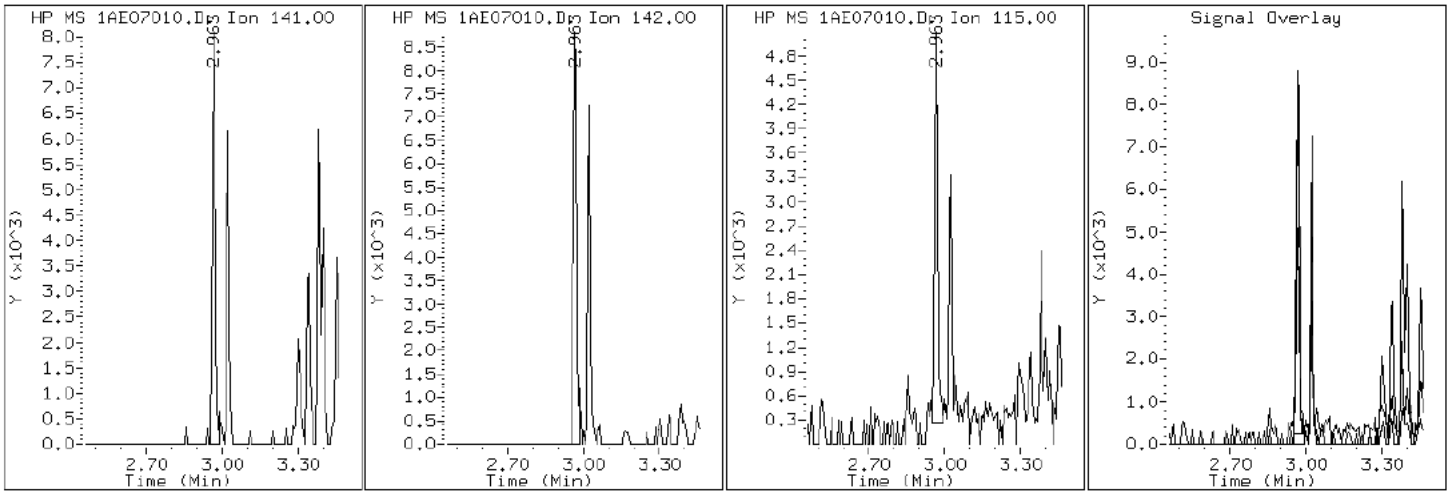
Data File: 1AE07010.D

Date: 07-MAY-2013 14:36

Client ID: HP0333B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-6-a Operator: SCC

3 2-Methylnaphthalene



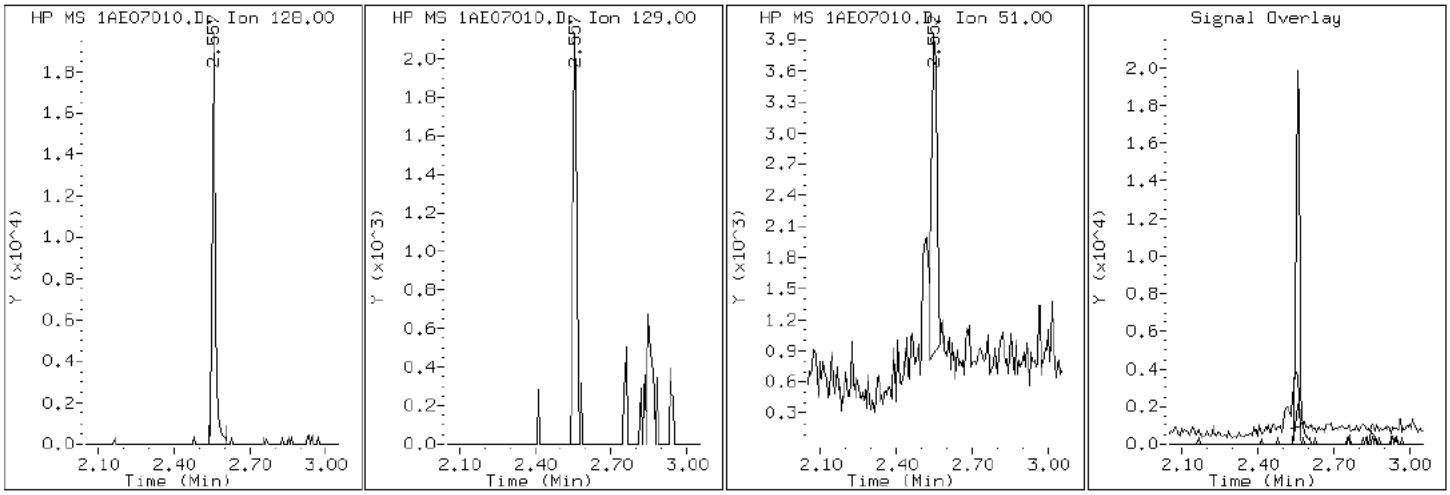
Data File: 1AE07010.D

Date: 07-MAY-2013 14:36

Client ID: HP0333B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-6-a Operator: SCC

2 Naphthalene



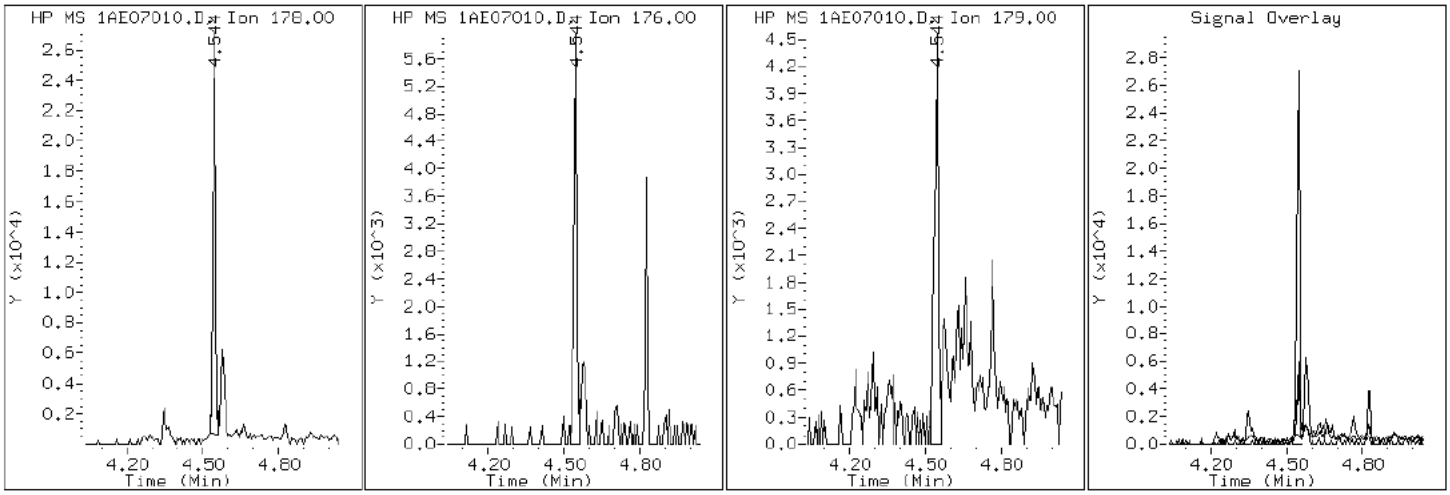
Data File: 1AE07010.D

Date: 07-MAY-2013 14:36

Client ID: HP0333B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-6-a Operator: SCC

11 Phenanthrene



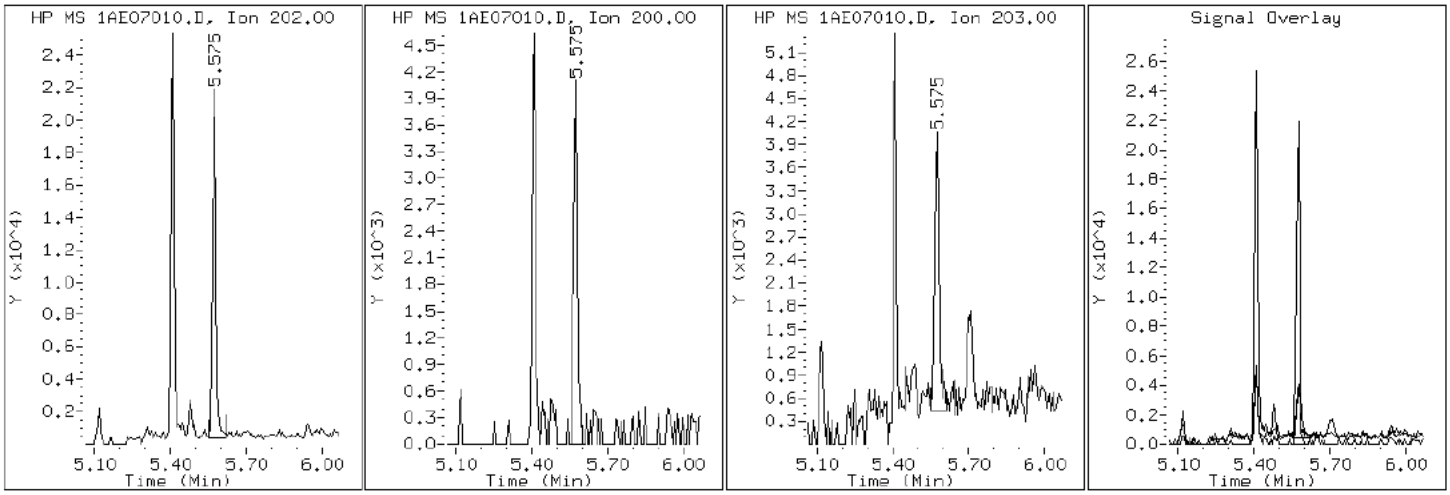
Data File: 1AE07010.D

Date: 07-MAY-2013 14:36

Client ID: HP0333B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-6-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE07010.D
Inj. Date and Time: 07-MAY-2013 14:36
Instrument ID: BSMA5973.i
Client ID: HP0333B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

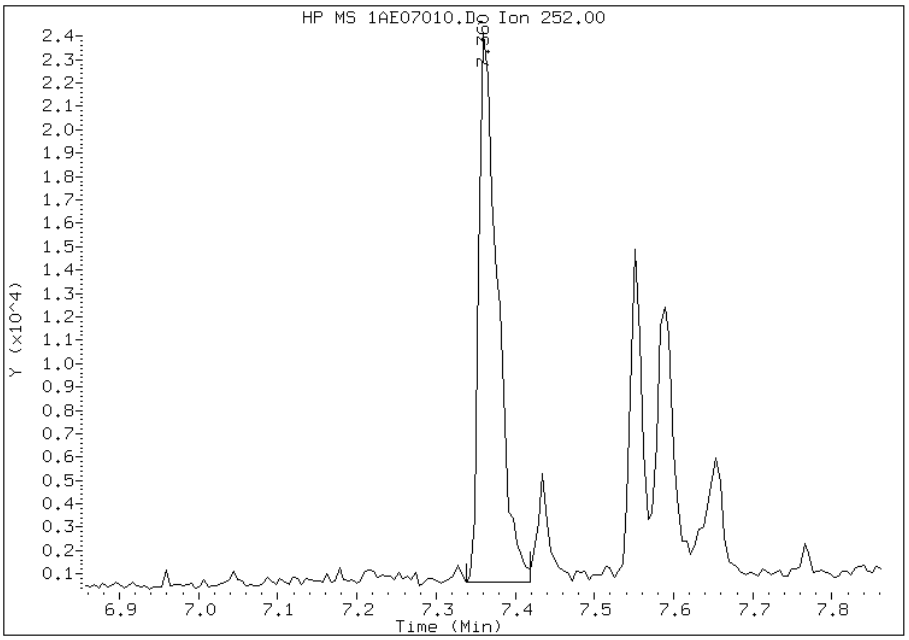
Processing Integration Results

RT: 7.36

Response: 38368

Amount: 1

Conc: 104



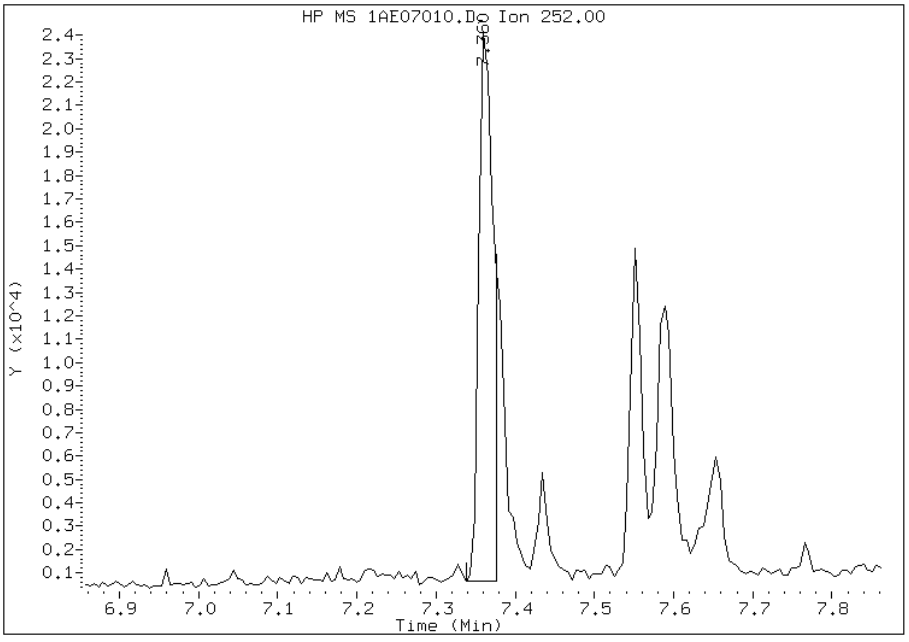
Manual Integration Results

RT: 7.36

Response: 29308

Amount: 1

Conc: 79



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:52
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE07010.D
Inj. Date and Time: 07-MAY-2013 14:36
Instrument ID: BSMA5973.i
Client ID: HP0333B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/09/2013

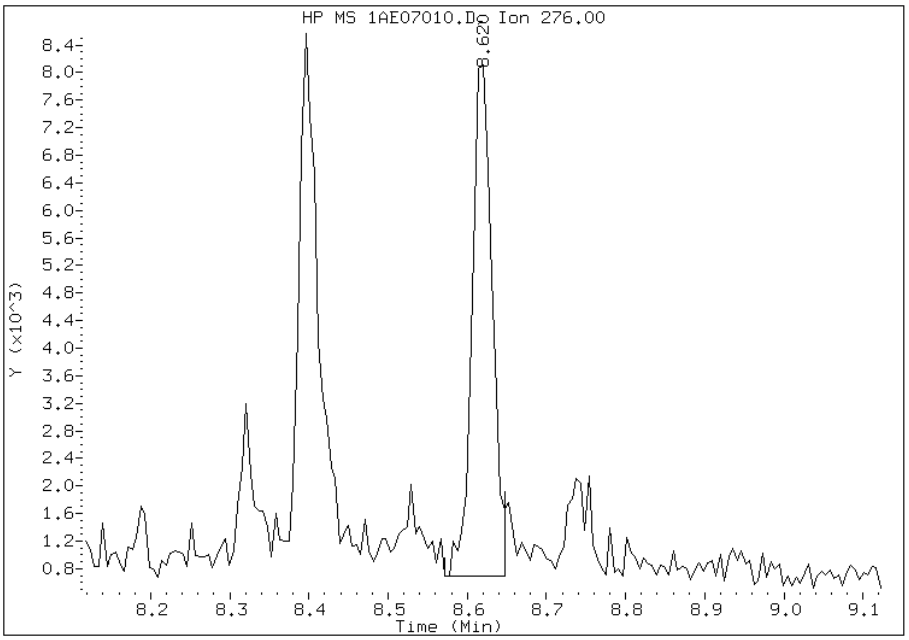
Processing Integration Results

RT: 8.62

Response: 13051

Amount: 0

Conc: 38



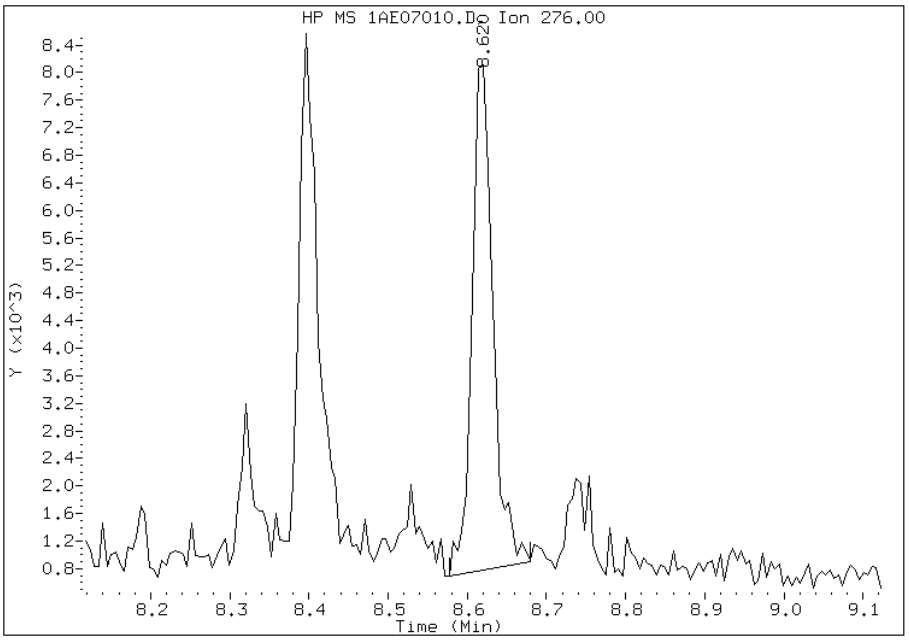
Manual Integration Results

RT: 8.62

Response: 13336

Amount: 0

Conc: 39



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:53
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE07010.D
Inj. Date and Time: 07-MAY-2013 14:36
Instrument ID: BSMA5973.i
Client ID: HP0333B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

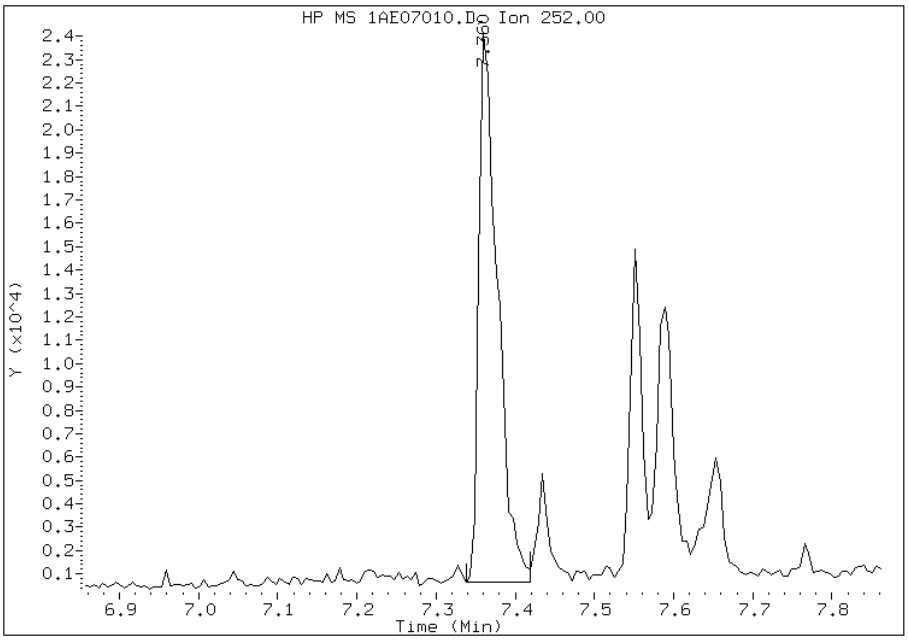
Processing Integration Results

RT: 7.36

Response: 38368

Amount: 1

Conc: 84



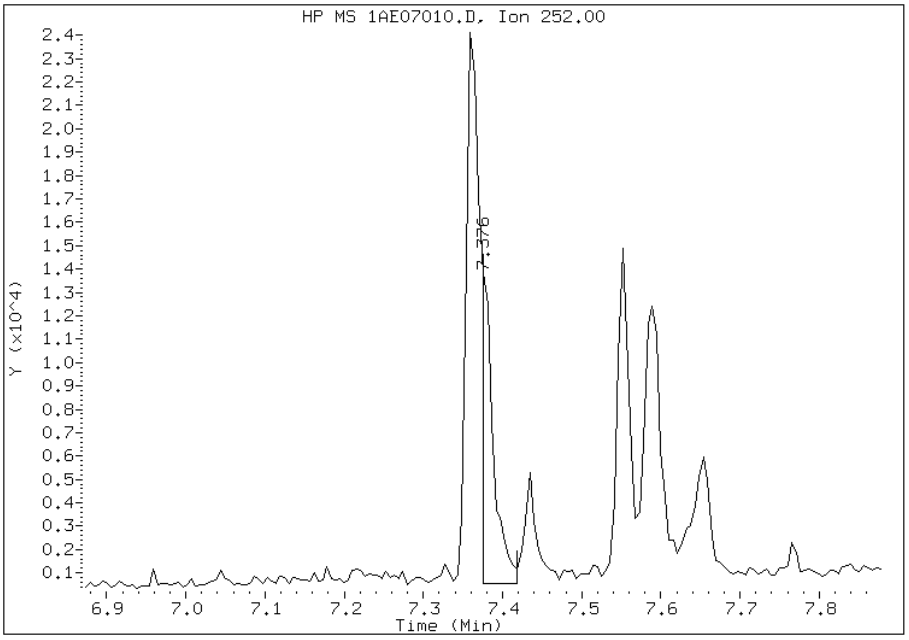
Manual Integration Results

RT: 7.38

Response: 13598

Amount: 0

Conc: 30



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE07010.D
Inj. Date and Time: 07-MAY-2013 14:36
Instrument ID: BSMA5973.i
Client ID: HP0333B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

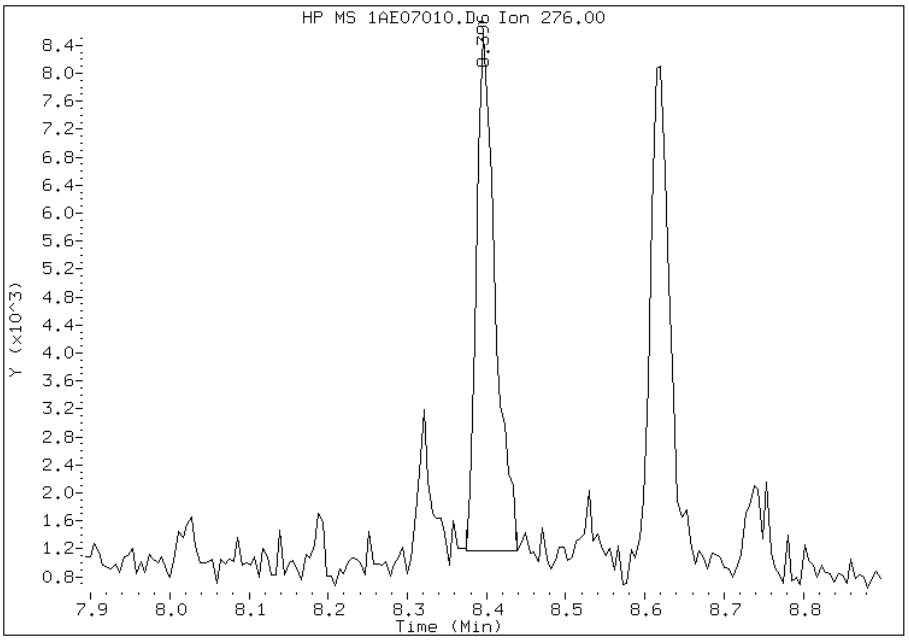
Processing Integration Results

RT: 8.40

Response: 12017

Amount: 0

Conc: 38



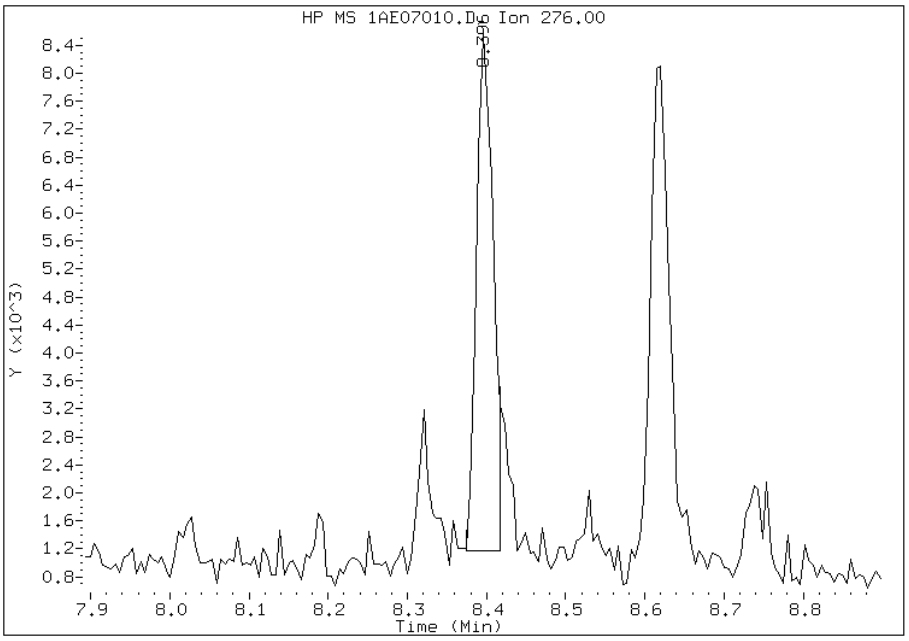
Manual Integration Results

RT: 8.40

Response: 10784

Amount: 0

Conc: 34



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:53
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: HP0334A-CS | Lab Sample ID: 680-89985-7

Matrix: Solid | Lab File ID: 1AE07011.D

Analysis Method: 8270C LL | Date Collected: 05/01/2013 08:50

Extract. Method: 3546 | Date Extracted: 05/06/2013 08:14

Sample wt/vol: 15.29(g) | Date Analyzed: 05/07/2013 14:51

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

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

% Moisture: 21.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137194 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	25	J	120	25
208-96-8	Acenaphthylene	40	J	50	6.2
120-12-7	Anthracene	120		10	5.2
56-55-3	Benzo[a]anthracene	320		10	4.9
50-32-8	Benzo[a]pyrene	260		13	6.5
205-99-2	Benzo[b]fluoranthene	400		15	7.6
191-24-2	Benzo[g,h,i]perylene	230		25	5.5
207-08-9	Benzo[k]fluoranthene	150		10	4.5
218-01-9	Chrysene	280		11	5.6
53-70-3	Dibenz(a,h)anthracene	76		25	5.1
206-44-0	Fluoranthene	550		25	5.0
86-73-7	Fluorene	28		25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	210		25	8.8
90-12-0	1-Methylnaphthalene	69		50	5.5
91-57-6	2-Methylnaphthalene	88		50	8.8
91-20-3	Naphthalene	92		50	5.5
85-01-8	Phenanthrene	450		10	4.9
129-00-0	Pyrene	450		25	4.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\1AE07011.D
Lab Smp Id: 680-89985-A-7-A Client Smp ID: HP0334A-CS
Inj Date : 07-MAY-2013 14:51
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89985-a-7-a
Misc Info : 680-89985-A-7-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\a-bFASTPAHi-m.m
Meth Date : 07-May-2013 13:04 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.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	15.290	Weight Extracted
M	21.000	% 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	2.550	2.544	(1.000)	1268390	40.0000	
* 6 Acenaphthene-d10	164	3.581	3.575	(1.000)	683898	40.0000	
* 10 Phenanthrene-d10	188	4.532	4.526	(1.000)	930634	40.0000	
$ 14 o-Terphenyl	230	4.825	4.820	(1.065)	92278	6.92809	573.5600
* 18 Chrysene-d12	240	6.556	6.545	(1.000)	932546	40.0000	
* 23 Perylene-d12	264	7.651	7.630	(1.000)	1126936	40.0000	
2 Naphthalene	128	2.560	2.555	(1.004)	32953	1.10323	91.3339
3 2-Methylnaphthalene	141	2.966	2.961	(1.163)	16140	1.06323	88.0224
4 1-Methylnaphthalene	142	3.020	3.014	(1.184)	15160	0.83319	68.9780
5 Acenaphthylene	152	3.490	3.484	(0.975)	15591	0.48516	40.1653
7 Acenaphthene	154	3.597	3.591	(1.004)	5589	0.30285	25.0718
9 Fluorene	166	3.907	3.906	(1.091)	7215	0.34306	28.4009
11 Phenanthrene	178	4.542	4.537	(1.002)	124573	5.40313	447.3124
12 Anthracene	178	4.574	4.574	(1.009)	36091	1.46952	121.6584

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	4.713	4.707	(1.040)	16649	0.75396	62.4188
15 Fluoranthene	202	5.413	5.402	(1.194)	176082	6.63870	549.6021
16 Pyrene	202	5.573	5.568	(0.850)	162111	5.40810	447.7238
17 Benzo(a)anthracene	228	6.551	6.529	(0.999)	101411	3.86939	320.3372
19 Chrysene	228	6.572	6.561	(1.002)	99825	3.38522	280.2546
20 Benzo(b)fluoranthene	252	7.368	7.352	(0.963)	142627	4.78826	396.4086(M)
21 Benzo(k)fluoranthene	252	7.379	7.373	(0.964)	67150	1.81717	150.4390(QM)
22 Benzo(a)pyrene	252	7.593	7.576	(0.992)	97039	3.17215	262.6149
24 Indeno(1,2,3-cd)pyrene	276	8.405	8.388	(1.098)	64236	2.50654	207.5101(M)
25 Dibenzo(a,h)anthracene	278	8.426	8.410	(1.101)	23977	0.91273	75.5625
26 Benzo(g,h,i)perylene	276	8.629	8.602	(1.128)	77731	2.82060	233.5110(M)

QC Flag Legend

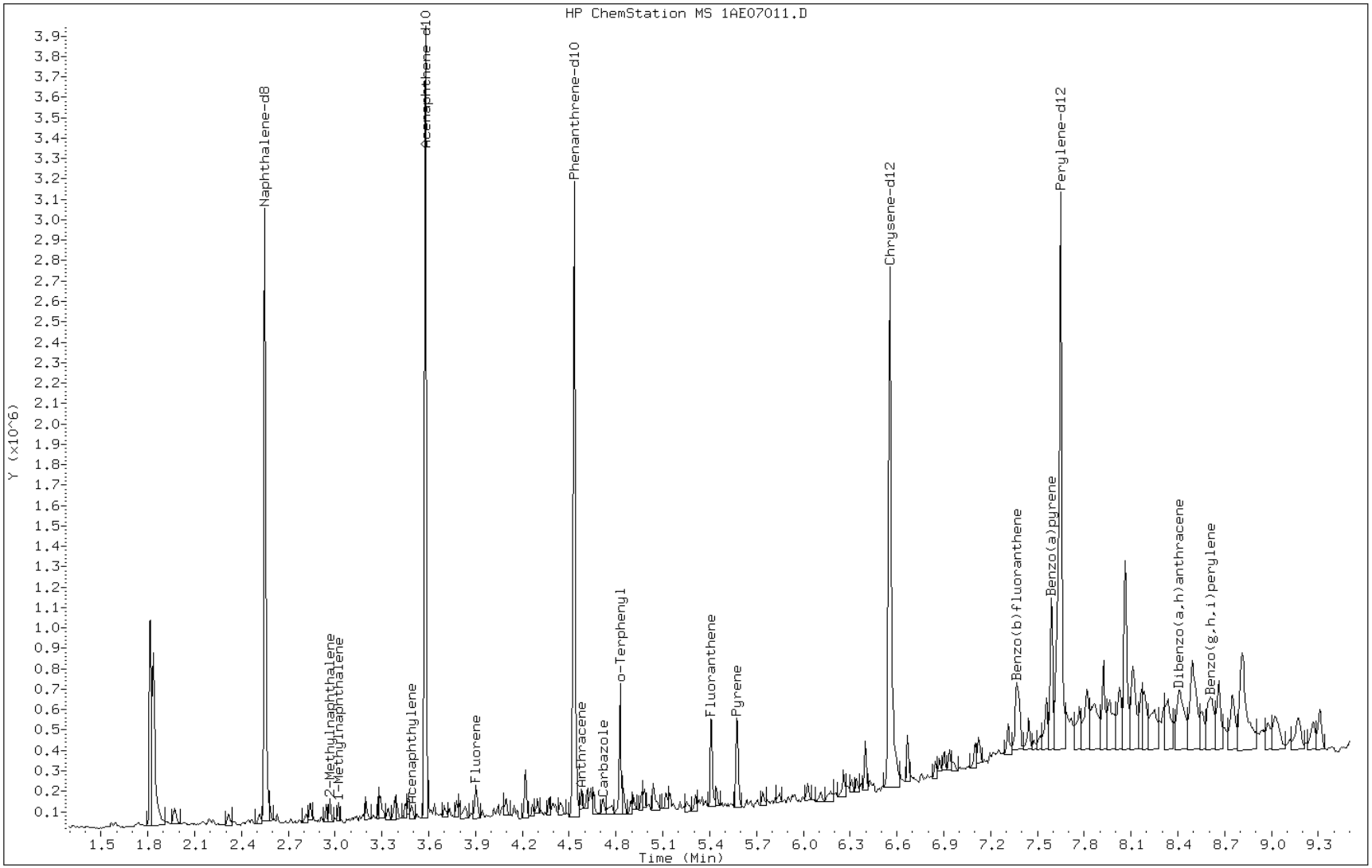
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE07011.D

Date: 07-MAY-2013 14:51

Client ID: HP0334A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-7-a Operator: SCC



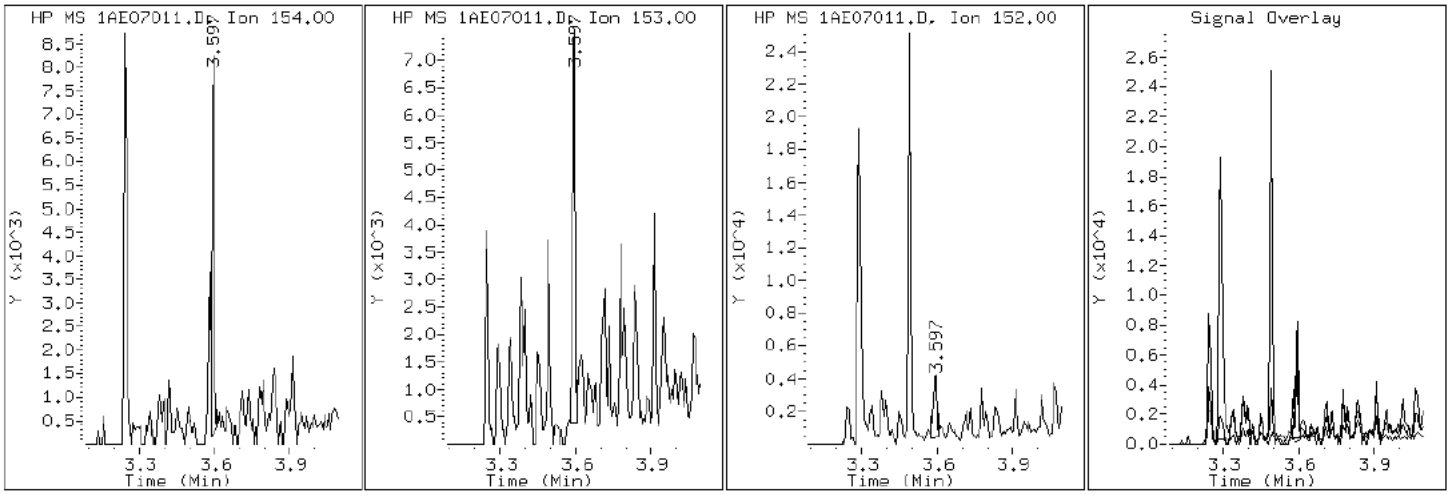
Data File: 1AE07011.D

Date: 07-MAY-2013 14:51

Client ID: HP0334A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-7-a Operator: SCC

7 Acenaphthene



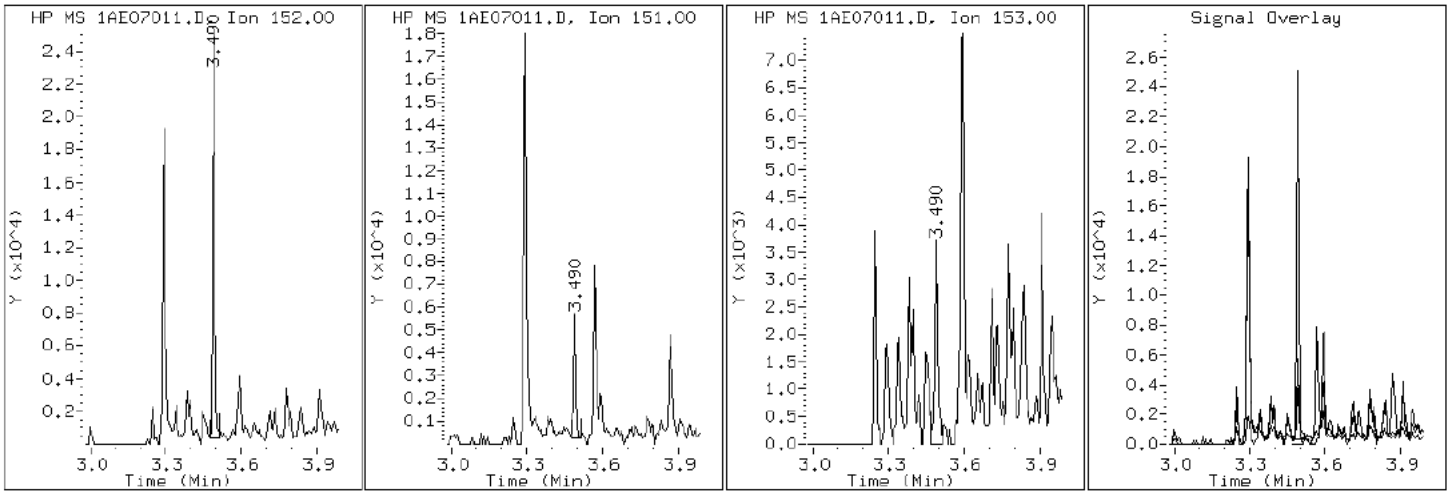
Data File: 1AE07011.D

Date: 07-MAY-2013 14:51

Client ID: HP0334A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-7-a Operator: SCC

5 Acenaphthylene



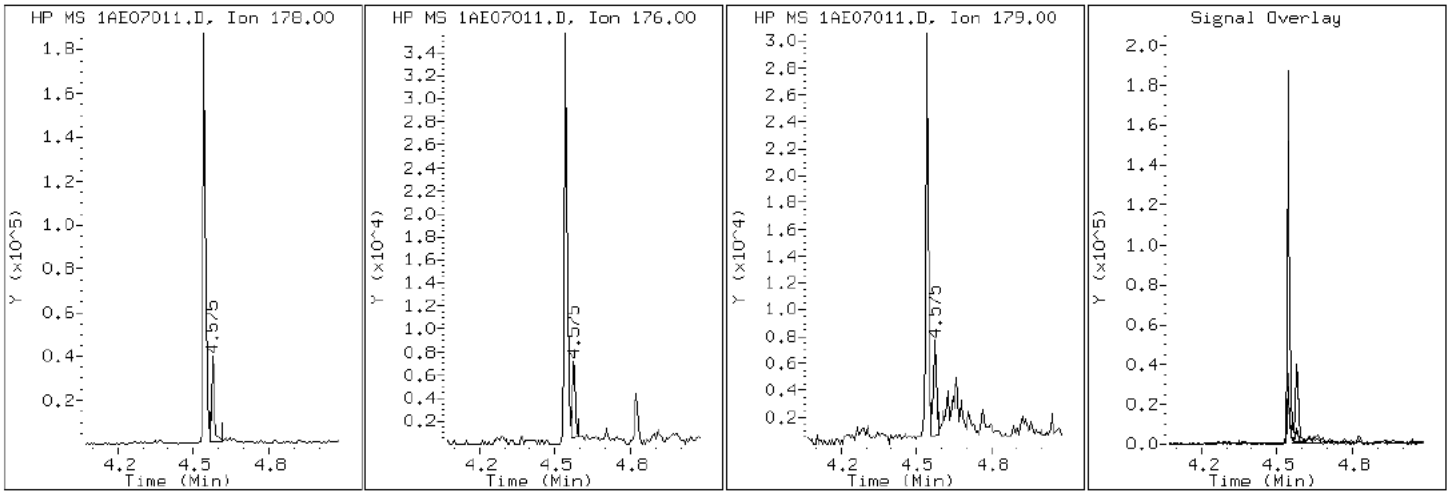
Data File: 1AE07011.D

Date: 07-MAY-2013 14:51

Client ID: HP0334A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-7-a Operator: SCC

12 Anthracene



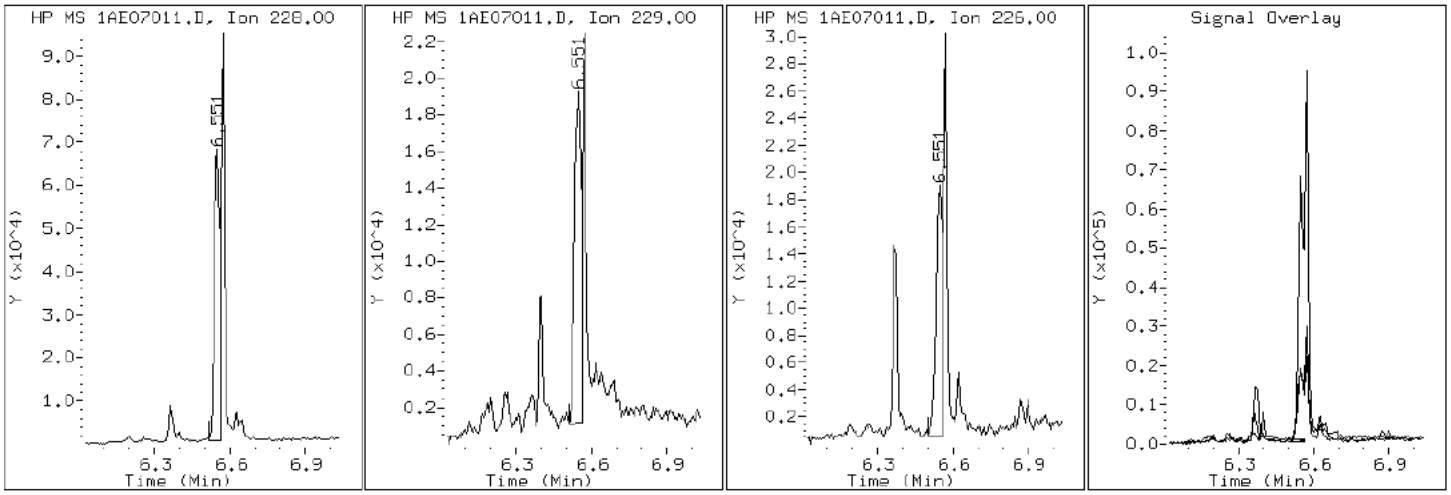
Data File: 1AE07011.D

Date: 07-MAY-2013 14:51

Client ID: HP0334A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-7-a Operator: SCC

17 Benzo(a)anthracene



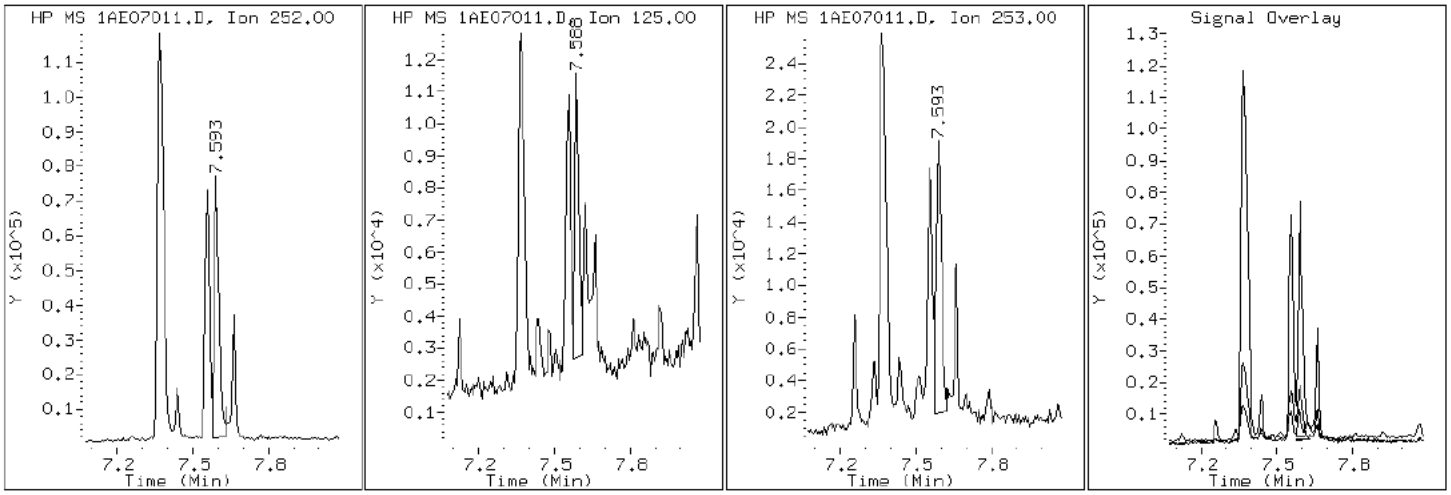
Data File: 1AE07011.D

Date: 07-MAY-2013 14:51

Client ID: HP0334A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-7-a Operator: SCC

22 Benzo(a)pyrene



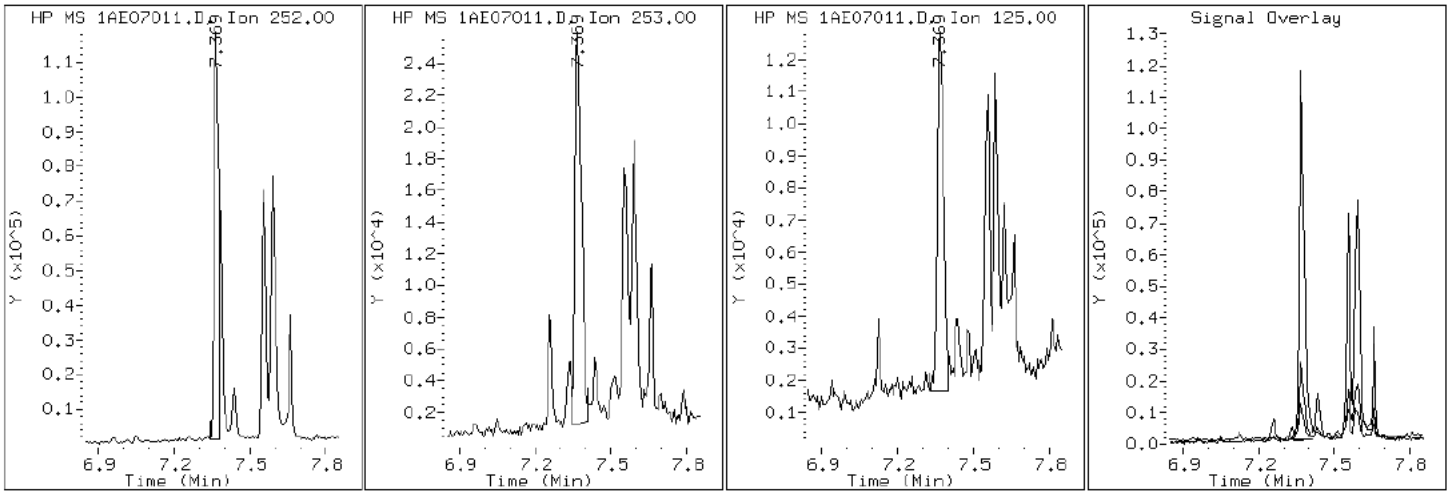
Data File: 1AE07011.D

Date: 07-MAY-2013 14:51

Client ID: HP0334A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-7-a Operator: SCC

20 Benzo(b)fluoranthene



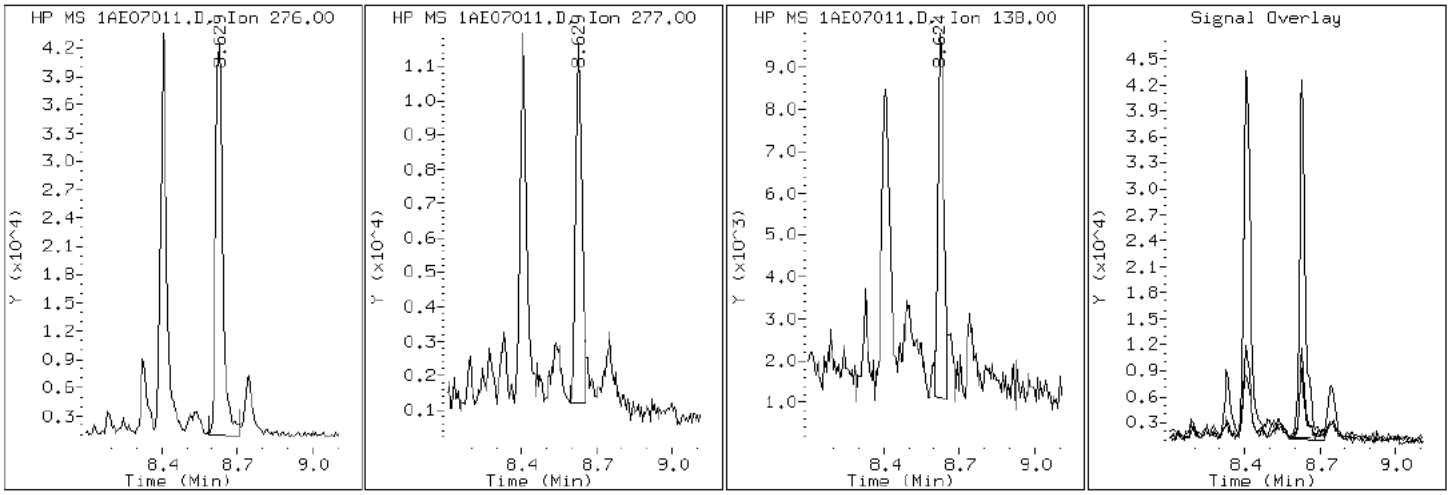
Data File: 1AE07011.D

Date: 07-MAY-2013 14:51

Client ID: HP0334A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-7-a Operator: SCC

26 Benzo(g,h,i)perylene



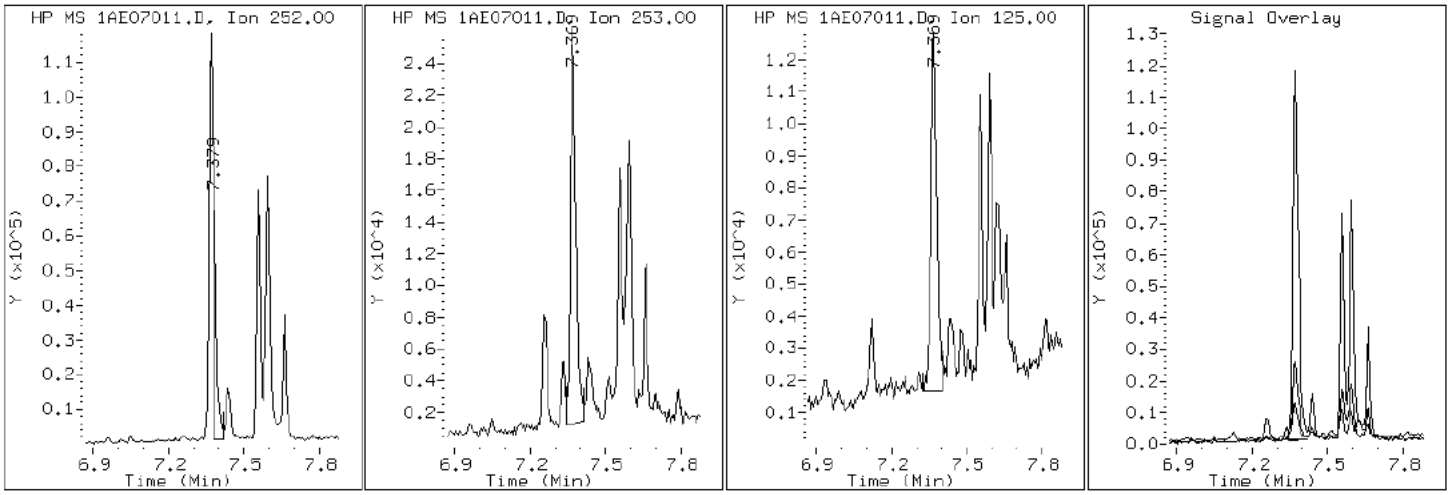
Data File: 1AE07011.D

Date: 07-MAY-2013 14:51

Client ID: HP0334A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-7-a Operator: SCC

21 Benzo(k)fluoranthene



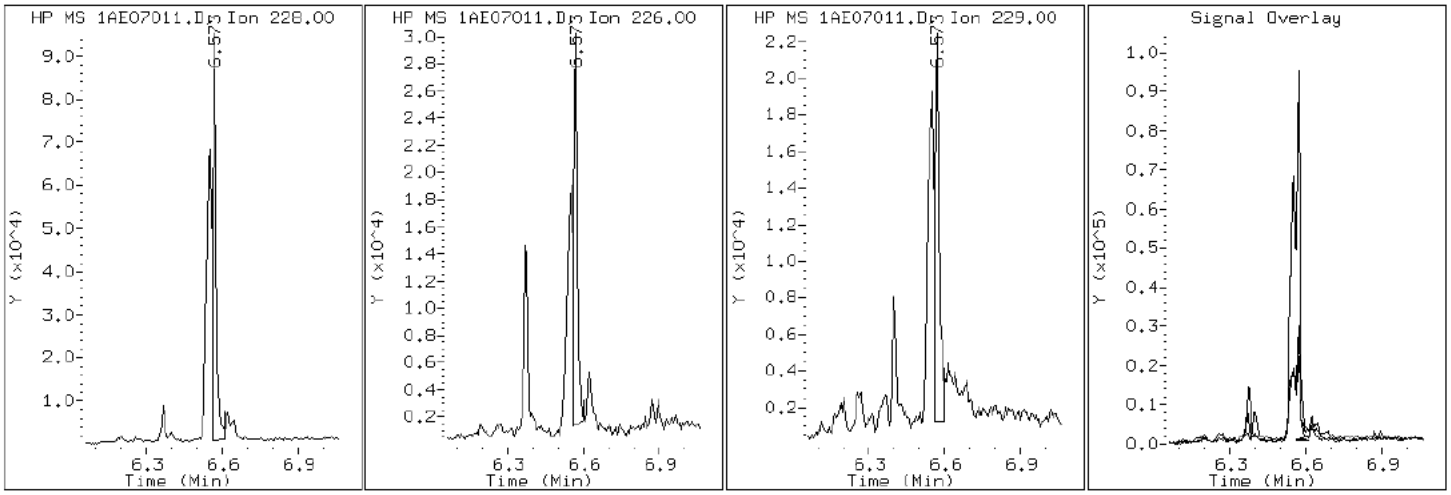
Data File: 1AE07011.D

Date: 07-MAY-2013 14:51

Client ID: HP0334A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-7-a Operator: SCC

19 Chrysene



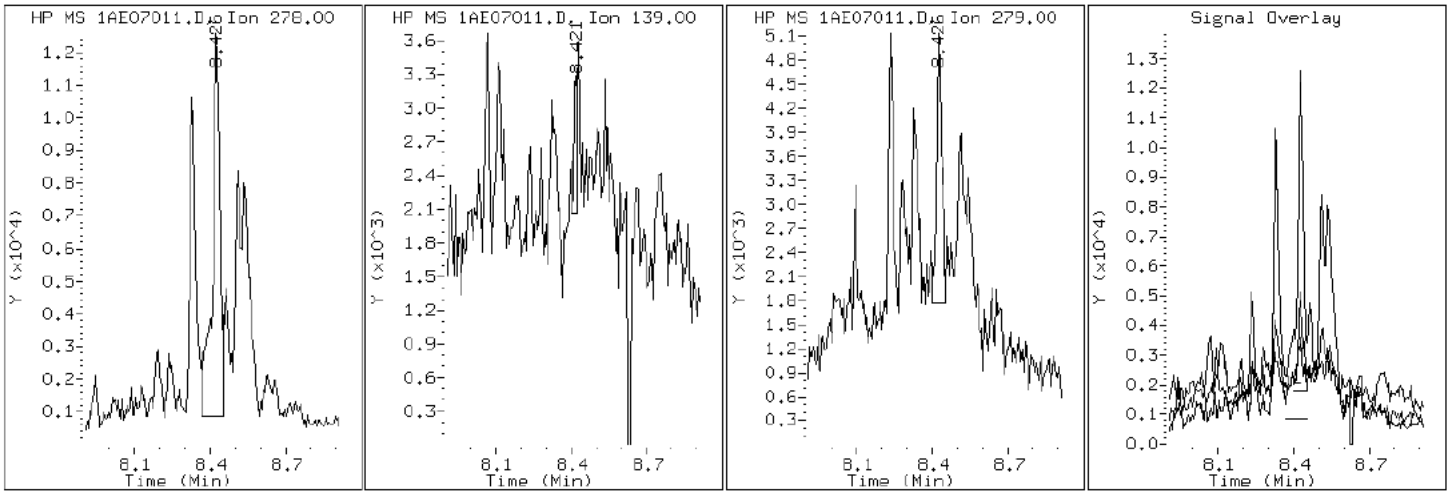
Data File: 1AE07011.D

Date: 07-MAY-2013 14:51

Client ID: HP0334A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-7-a Operator: SCC

25 Dibenzo(a,h)anthracene



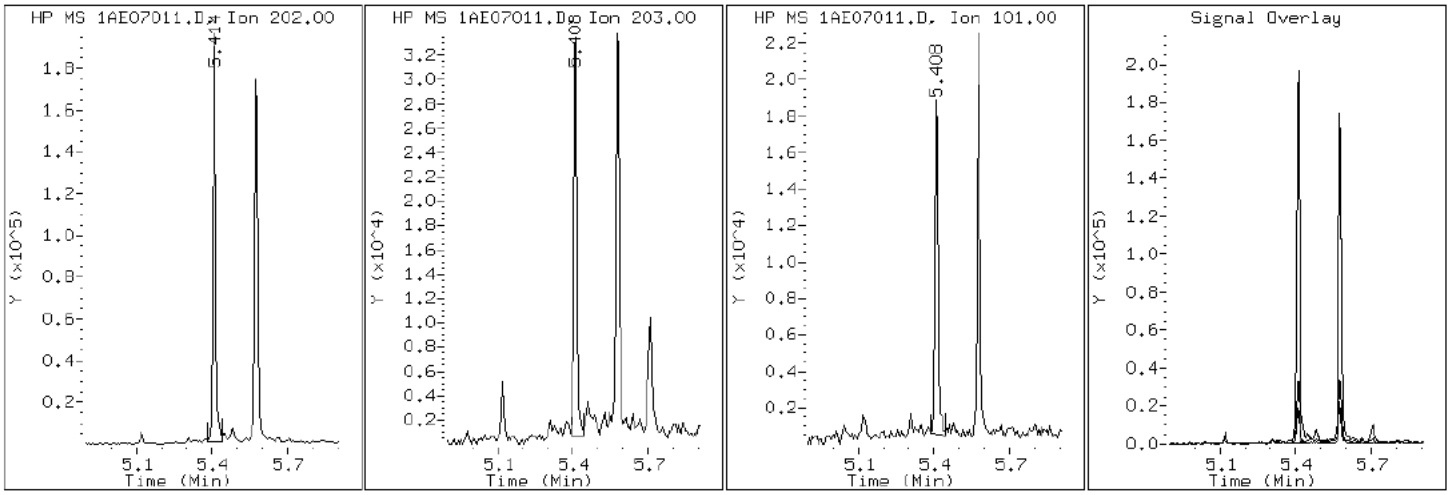
Data File: 1AE07011.D

Date: 07-MAY-2013 14:51

Client ID: HP0334A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-7-a Operator: SCC

15 Fluoranthene



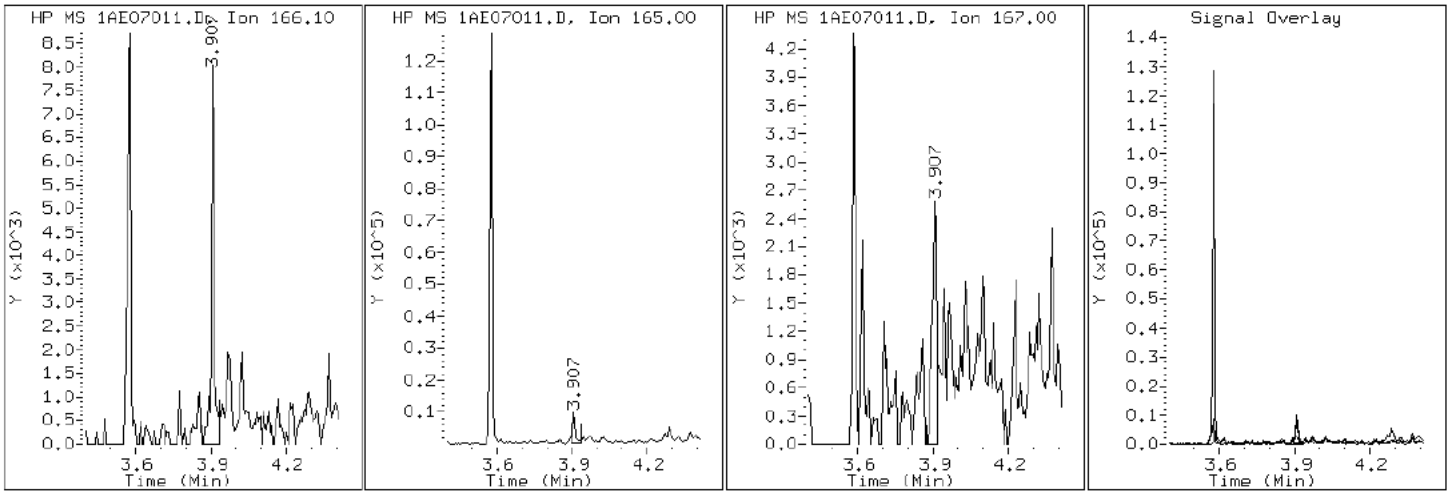
Data File: 1AE07011.D

Date: 07-MAY-2013 14:51

Client ID: HP0334A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-7-a Operator: SCC

9 Fluorene



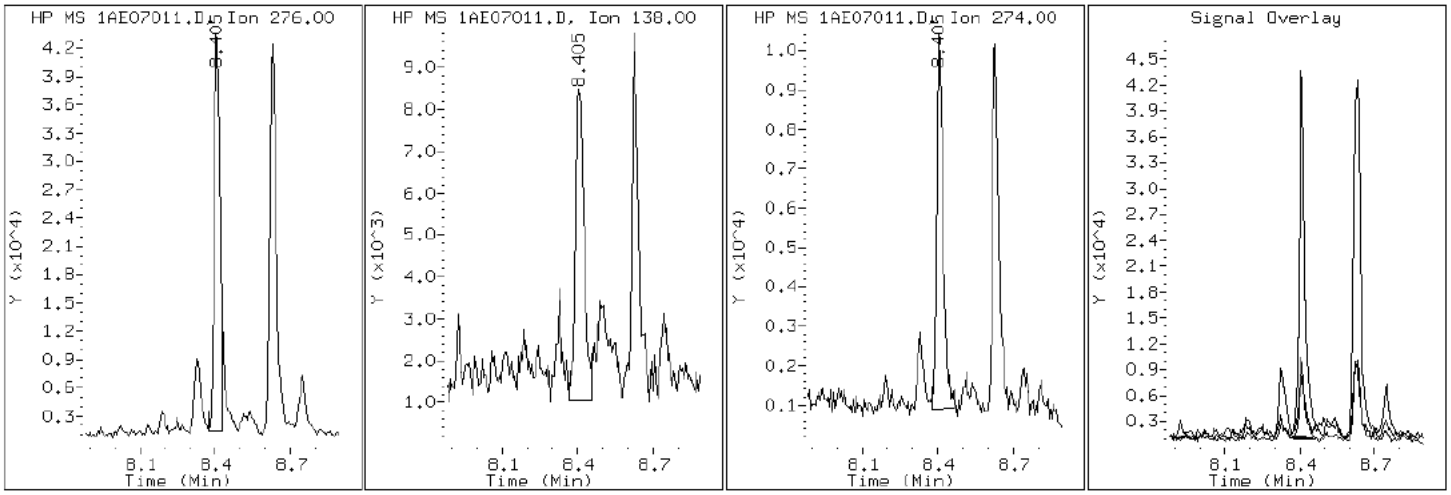
Data File: 1AE07011.D

Date: 07-MAY-2013 14:51

Client ID: HP0334A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-7-a Operator: SCC

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



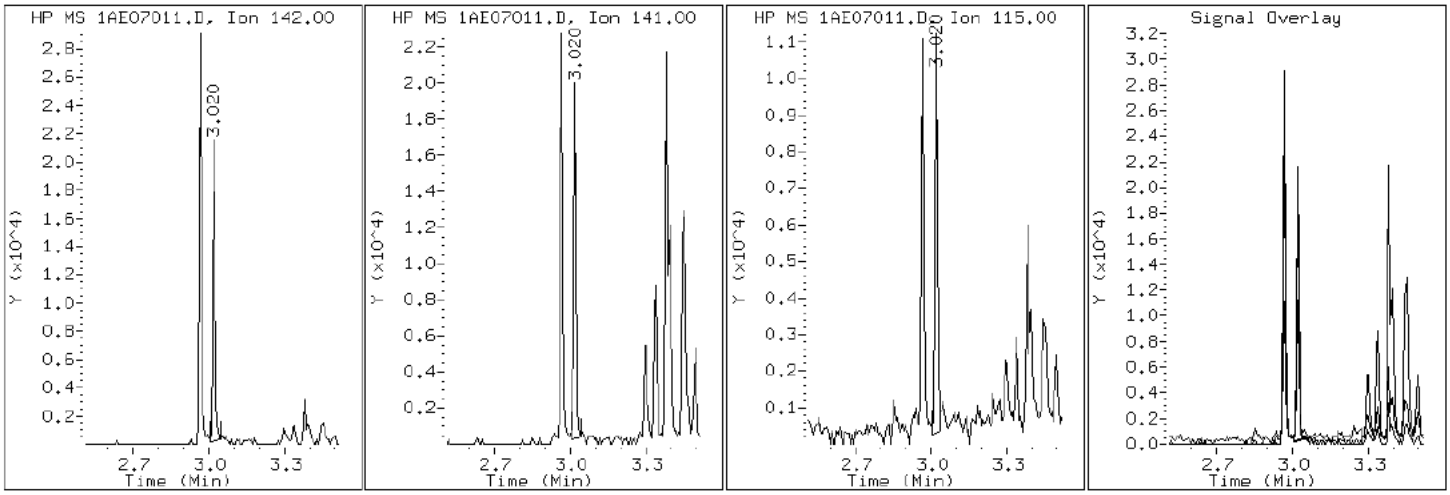
Data File: 1AE07011.D

Date: 07-MAY-2013 14:51

Client ID: HP0334A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-7-a Operator: SCC

4 1-Methylnaphthalene



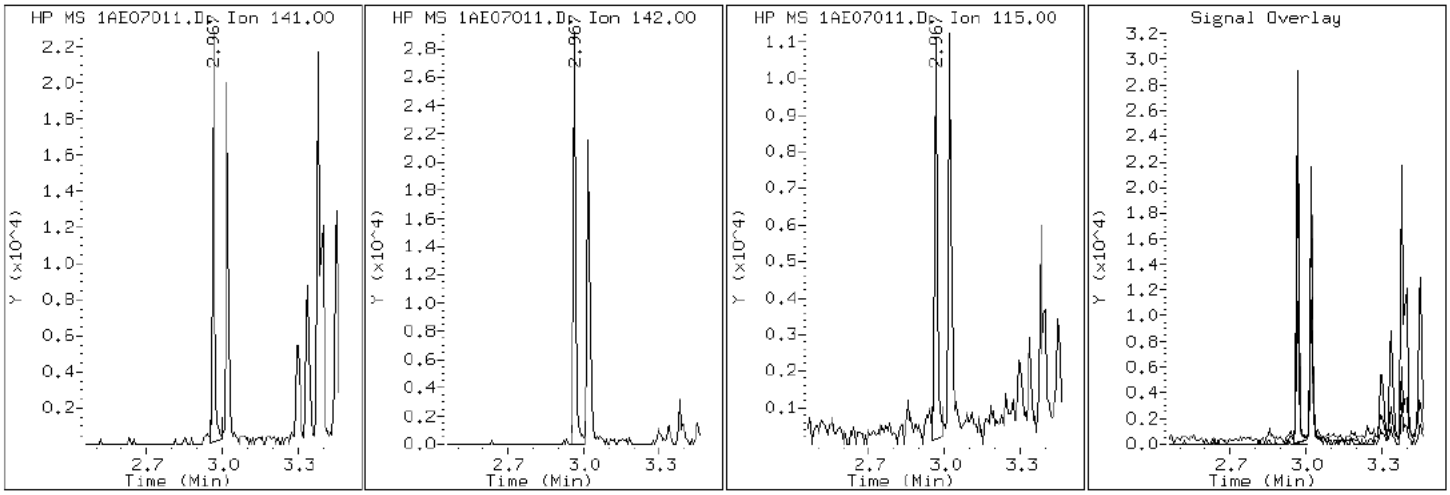
Data File: 1AE07011.D

Date: 07-MAY-2013 14:51

Client ID: HP0334A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-7-a Operator: SCC

3 2-Methylnaphthalene



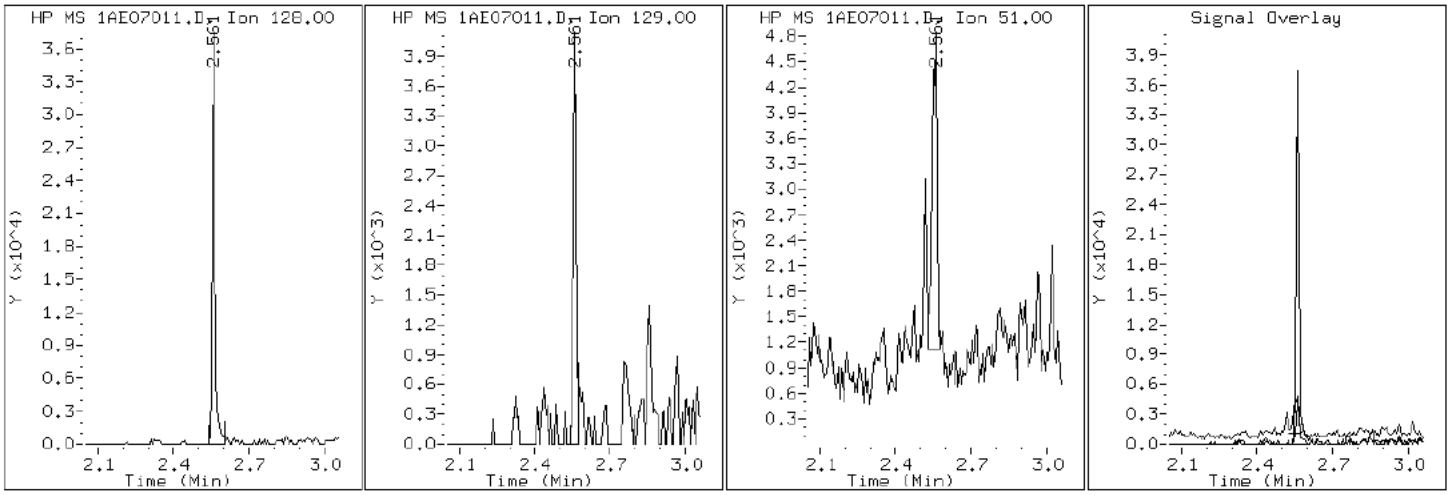
Data File: 1AE07011.D

Date: 07-MAY-2013 14:51

Client ID: HP0334A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-7-a Operator: SCC

2 Naphthalene



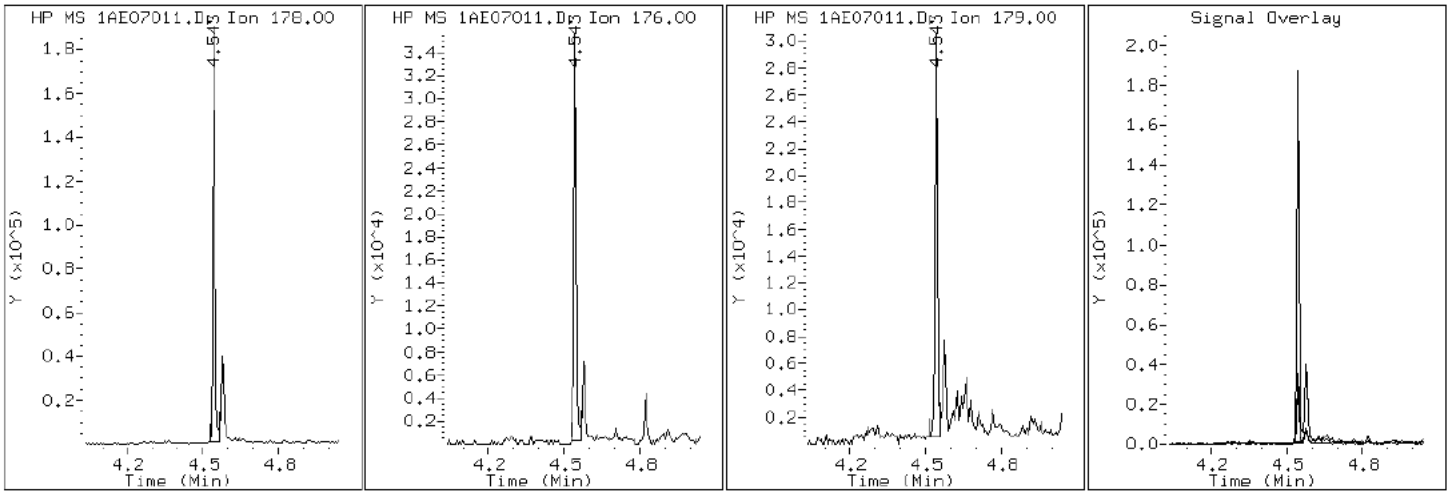
Data File: 1AE07011.D

Date: 07-MAY-2013 14:51

Client ID: HP0334A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-7-a Operator: SCC

11 Phenanthrene



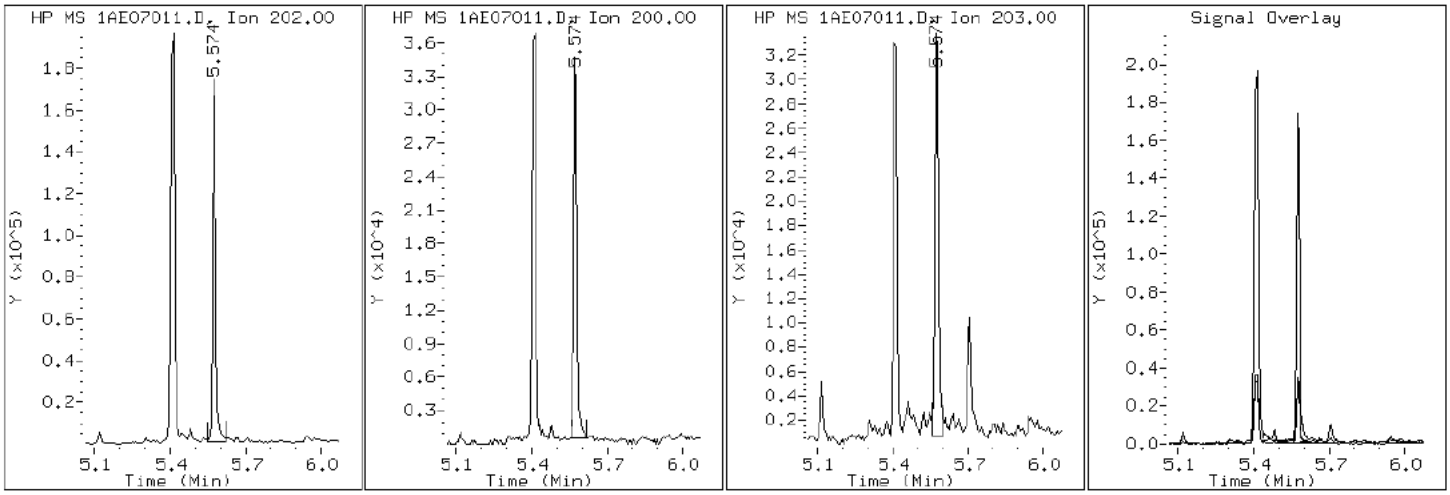
Data File: 1AE07011.D

Date: 07-MAY-2013 14:51

Client ID: HP0334A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-7-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE07011.D
Inj. Date and Time: 07-MAY-2013 14:51
Instrument ID: BSMA5973.i
Client ID: HP0334A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

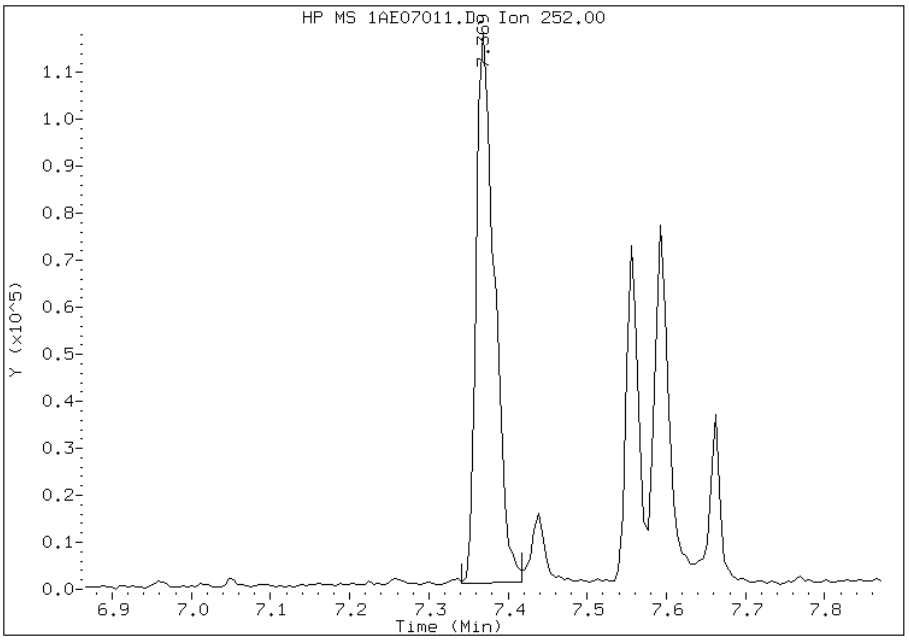
Processing Integration Results

RT: 7.37

Response: 187318

Amount: 6

Conc: 521



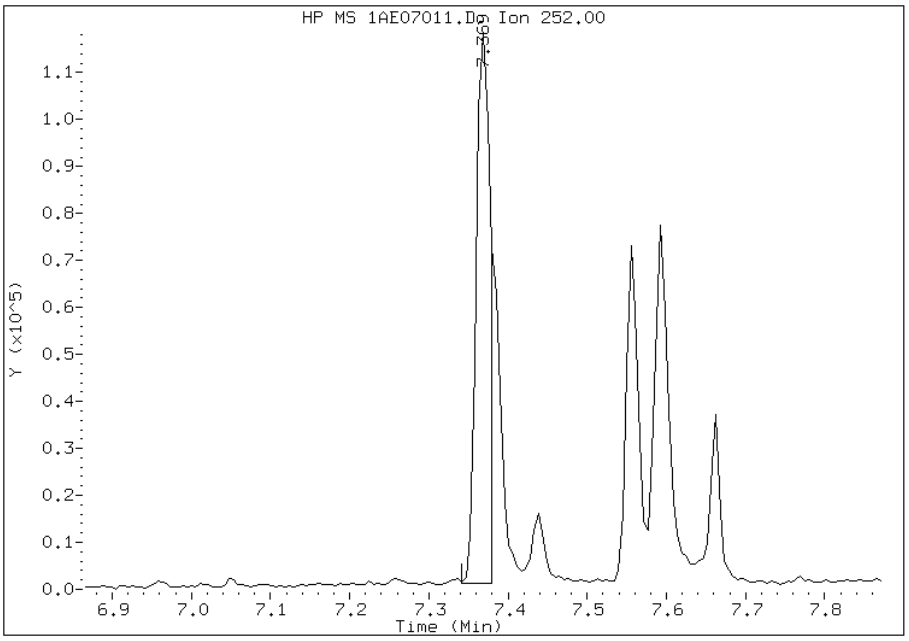
Manual Integration Results

RT: 7.37

Response: 142627

Amount: 5

Conc: 396



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:54
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE07011.D
Inj. Date and Time: 07-MAY-2013 14:51
Instrument ID: BSMA5973.i
Client ID: HP0334A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/09/2013

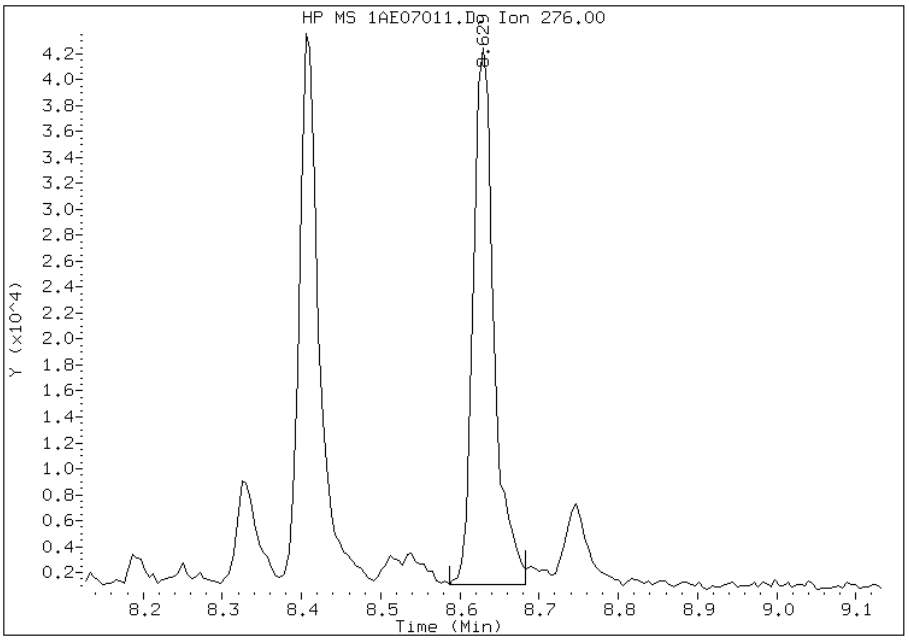
Processing Integration Results

RT: 8.63

Response: 74891

Amount: 3

Conc: 225



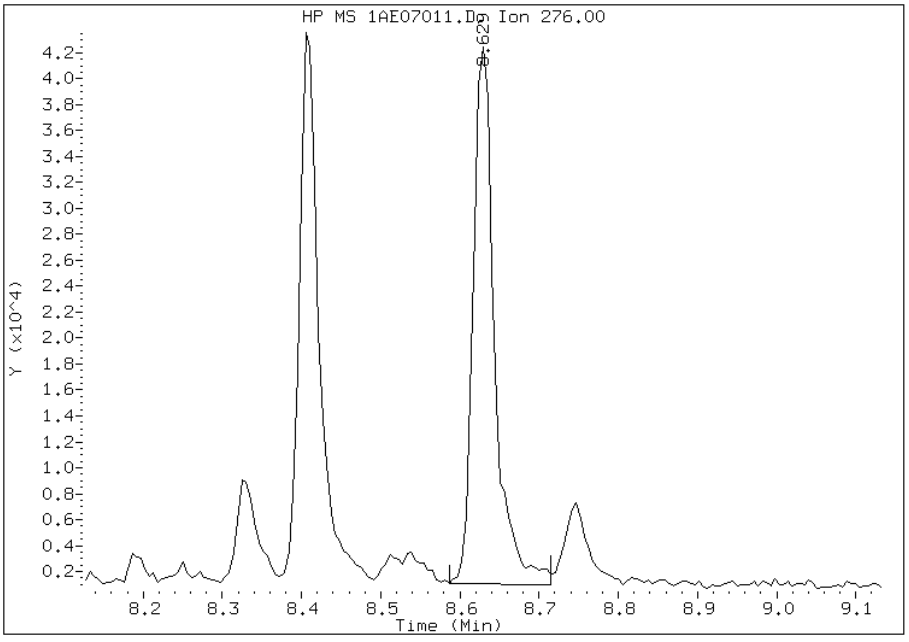
Manual Integration Results

RT: 8.63

Response: 77731

Amount: 3

Conc: 234



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE07011.D
Inj. Date and Time: 07-MAY-2013 14:51
Instrument ID: BSMA5973.i
Client ID: HP0334A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

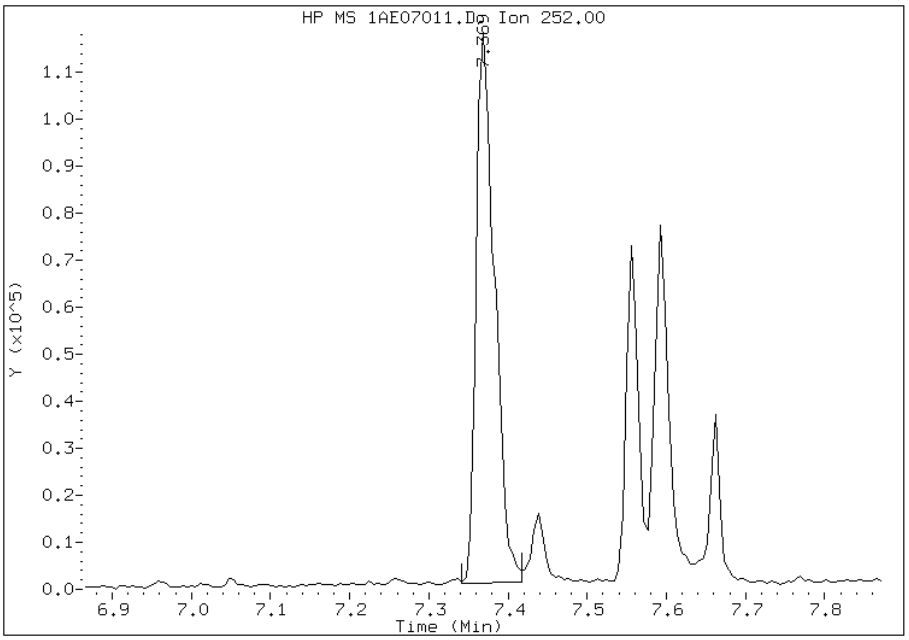
Processing Integration Results

RT: 7.37

Response: 187318

Amount: 5

Conc: 420



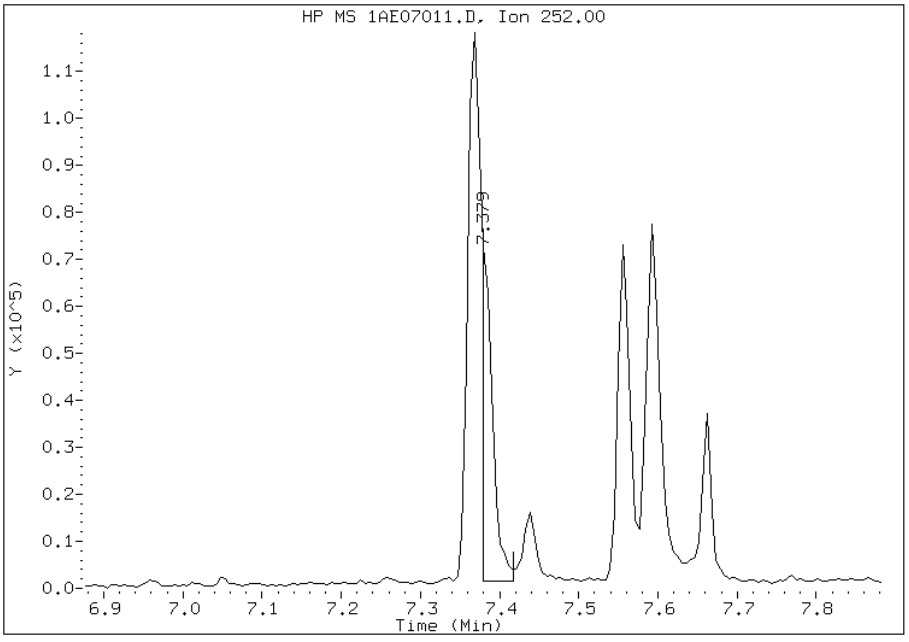
Manual Integration Results

RT: 7.38

Response: 67150

Amount: 2

Conc: 150



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:54
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE07011.D
Inj. Date and Time: 07-MAY-2013 14:51
Instrument ID: BSMA5973.i
Client ID: HP0334A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

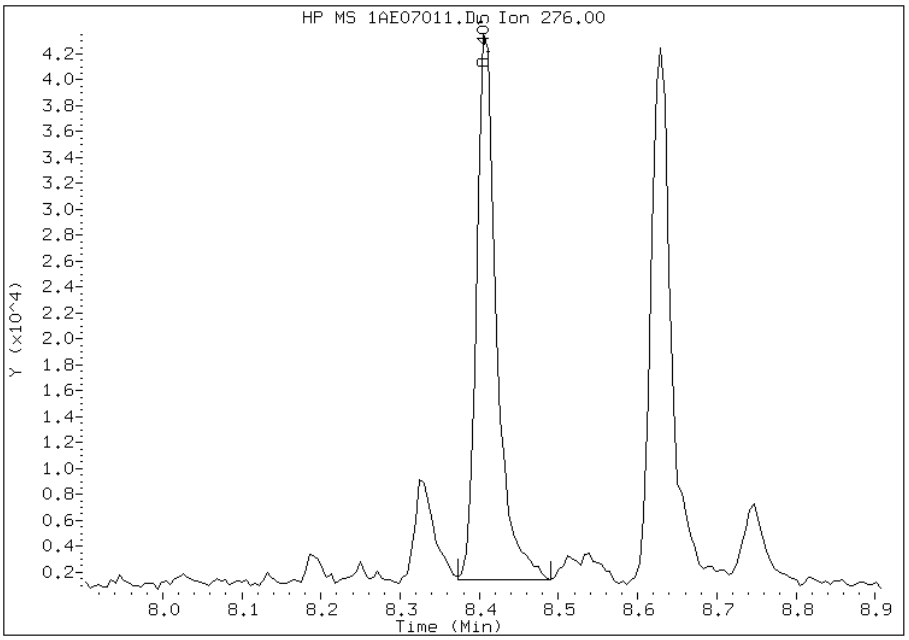
Processing Integration Results

RT: 8.41

Response: 73462

Amount: 3

Conc: 237



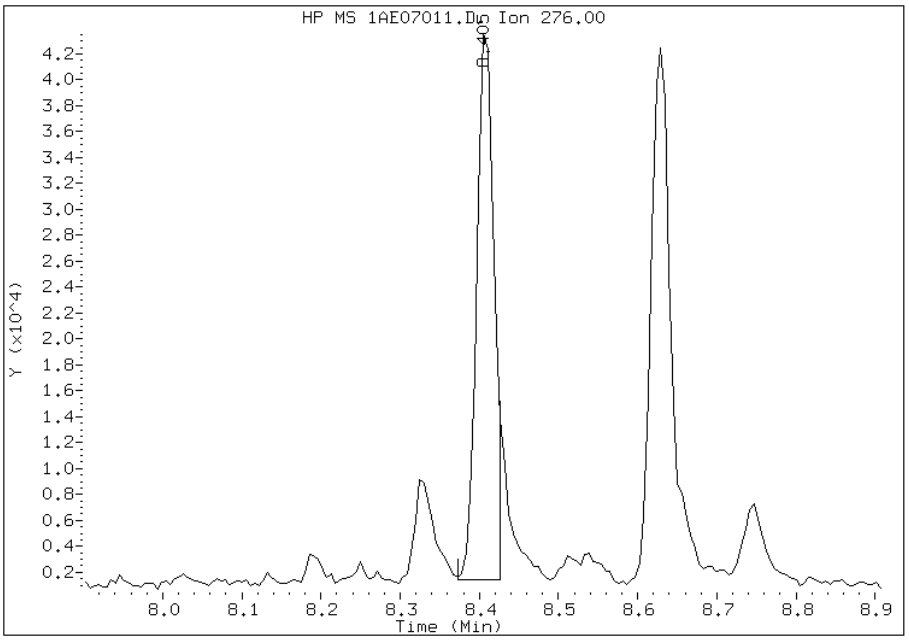
Manual Integration Results

RT: 8.41

Response: 64236

Amount: 3

Conc: 208



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:55
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: CV1114A-CS | Lab Sample ID: 680-89985-8

Matrix: Solid | Lab File ID: 1AE07012.D

Analysis Method: 8270C LL | Date Collected: 05/01/2013 13:25

Extract. Method: 3546 | Date Extracted: 05/06/2013 08:14

Sample wt/vol: 15.36(g) | Date Analyzed: 05/07/2013 15:06

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

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

% Moisture: 12.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137194 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	190		110	22
208-96-8	Acenaphthylene	110		45	5.6
120-12-7	Anthracene	810		9.4	4.7
56-55-3	Benzo[a]anthracene	3400		9.0	4.4
50-32-8	Benzo[a]pyrene	2500		12	5.8
191-24-2	Benzo[g,h,i]perylene	1600		22	4.9
207-08-9	Benzo[k]fluoranthene	1600		9.0	4.0
218-01-9	Chrysene	2900		10	5.0
53-70-3	Dibenz(a,h)anthracene	690		22	4.6
86-73-7	Fluorene	130		22	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	1600		22	8.0
90-12-0	1-Methylnaphthalene	130		45	4.9
91-57-6	2-Methylnaphthalene	200		45	8.0
91-20-3	Naphthalene	170		45	4.9
85-01-8	Phenanthrene	3500		9.0	4.4

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\1AE07012.D
Lab Smp Id: 680-89985-A-8-A Client Smp ID: CV1114A-CS
Inj Date : 07-MAY-2013 15:06
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89985-a-8-a
Misc Info : 680-89985-A-8-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\a-bFASTPAHi-m.m
Meth Date : 07-May-2013 13:04 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.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	15.360	Weight Extracted
M	13.000	% 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	2.550	2.544	(1.000)	1190995	40.0000	
* 6 Acenaphthene-d10	164	3.581	3.575	(1.000)	616859	40.0000	
* 10 Phenanthrene-d10	188	4.531	4.526	(1.000)	855104	40.0000	
$ 14 o-Terphenyl	230	4.825	4.820	(1.065)	75069	6.13389	459.0134
* 18 Chrysene-d12	240	6.578	6.545	(1.000)	1064026	40.0000	(H)
* 23 Perylene-d12	264	7.683	7.630	(1.000)	1330865	40.0000	(H)
2 Naphthalene	128	2.560	2.555	(1.004)	63111	2.25019	168.3872
3 2-Methylnaphthalene	141	2.966	2.961	(1.163)	38871	2.72705	204.0716
4 1-Methylnaphthalene	142	3.020	3.014	(1.184)	30479	1.78398	133.4994
5 Acenaphthylene	152	3.490	3.484	(0.975)	42245	1.45745	109.0643
7 Acenaphthene	154	3.597	3.591	(1.004)	42112	2.52987	189.3164
9 Fluorene	166	3.912	3.906	(1.092)	33139	1.74693	130.7272
11 Phenanthrene	178	4.553	4.537	(1.005)	1005903	47.4829	3553.2618
12 Anthracene	178	4.580	4.574	(1.011)	244990	10.8564	812.4108

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	4.718	4.707	(1.041)	188289	9.27998	694.4431
15 Fluoranthene	202	5.429	5.402	(1.198)	2271545	93.2072	6974.9148(A)
16 Pyrene	202	5.595	5.568	(0.851)	1822062	53.2738	3986.6037(A)
17 Benzo(a)anthracene	228	6.567	6.529	(0.998)	1378859	46.1100	3450.5180(H)
19 Chrysene	228	6.594	6.561	(1.002)	1317314	39.1521	2929.8472(H)
20 Benzo(b)fluoranthene	252	7.416	7.352	(0.965)	2049802	58.2711	4360.5641(AM)
21 Benzo(k)fluoranthene	252	7.422	7.373	(0.966)	916160	20.9935	1570.9966(QM)
22 Benzo(a)pyrene	252	7.641	7.576	(0.994)	1227698	33.9832	2543.0448(H)
24 Indeno(1,2,3-cd)pyrene	276	8.490	8.388	(1.105)	656606	21.6953	1623.5102(MH)
25 Dibenzo(a,h)anthracene	278	8.501	8.410	(1.106)	287663	9.27247	693.8811(H)
26 Benzo(g,h,i)perylene	276	8.720	8.602	(1.135)	676043	20.7724	1554.4501(H)

QC Flag Legend

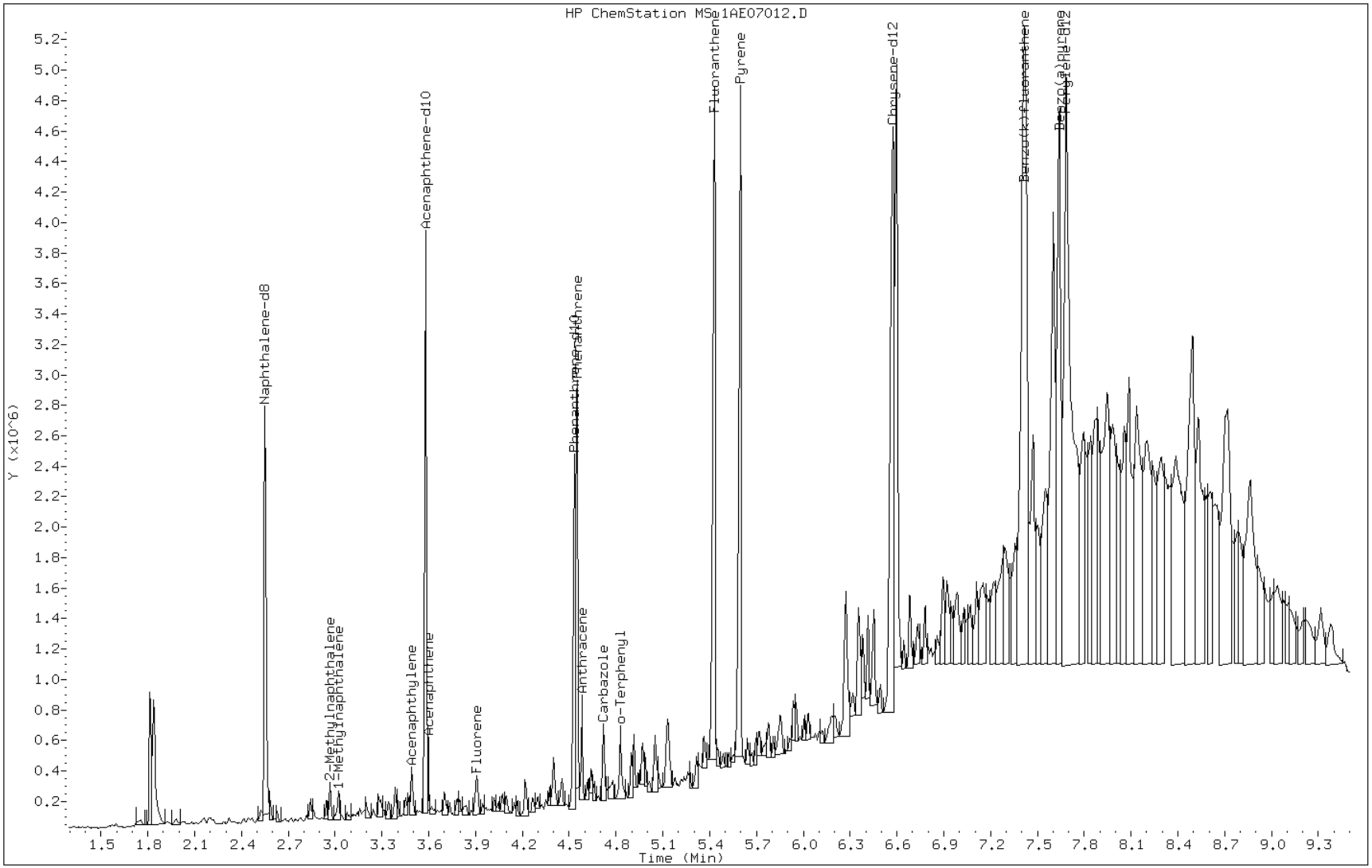
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AE07012.D

Date: 07-MAY-2013 15:06

Client ID: CV1114A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-8-a Operator: SCC



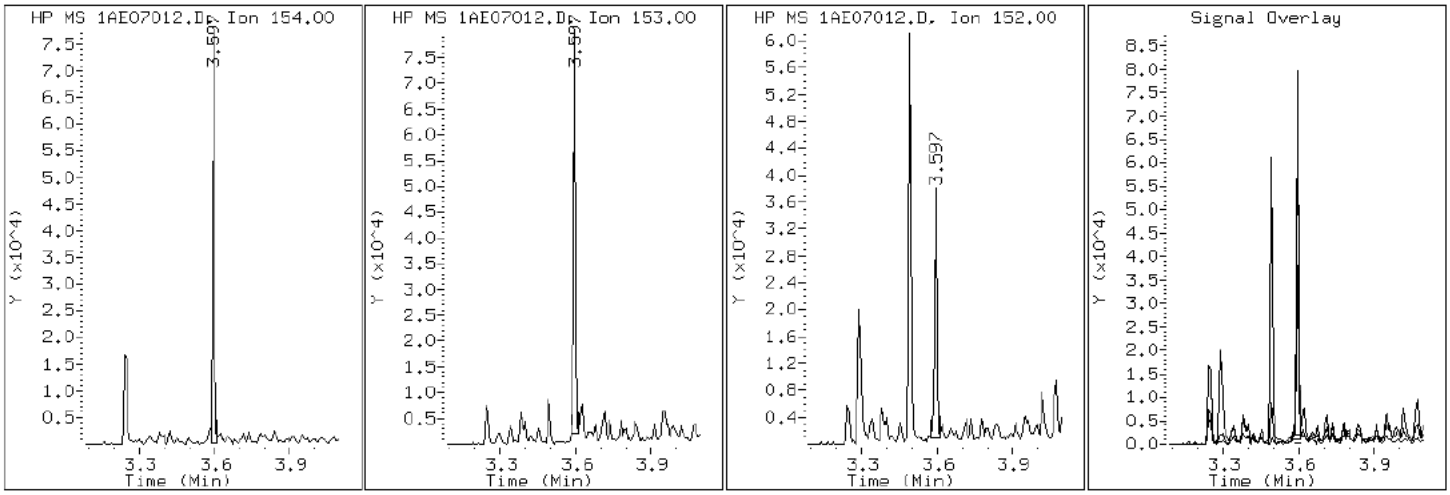
Data File: 1AE07012.D

Date: 07-MAY-2013 15:06

Client ID: CV1114A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-8-a Operator: SCC

7 Acenaphthene



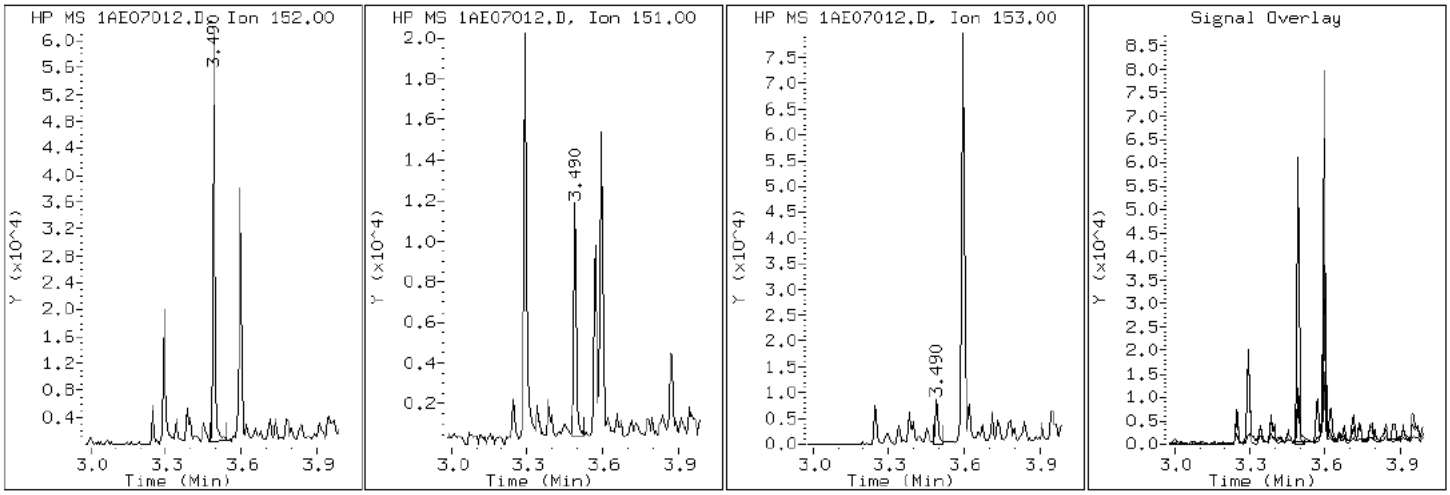
Data File: 1AE07012.D

Date: 07-MAY-2013 15:06

Client ID: CV1114A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-8-a Operator: SCC

5 Acenaphthylene



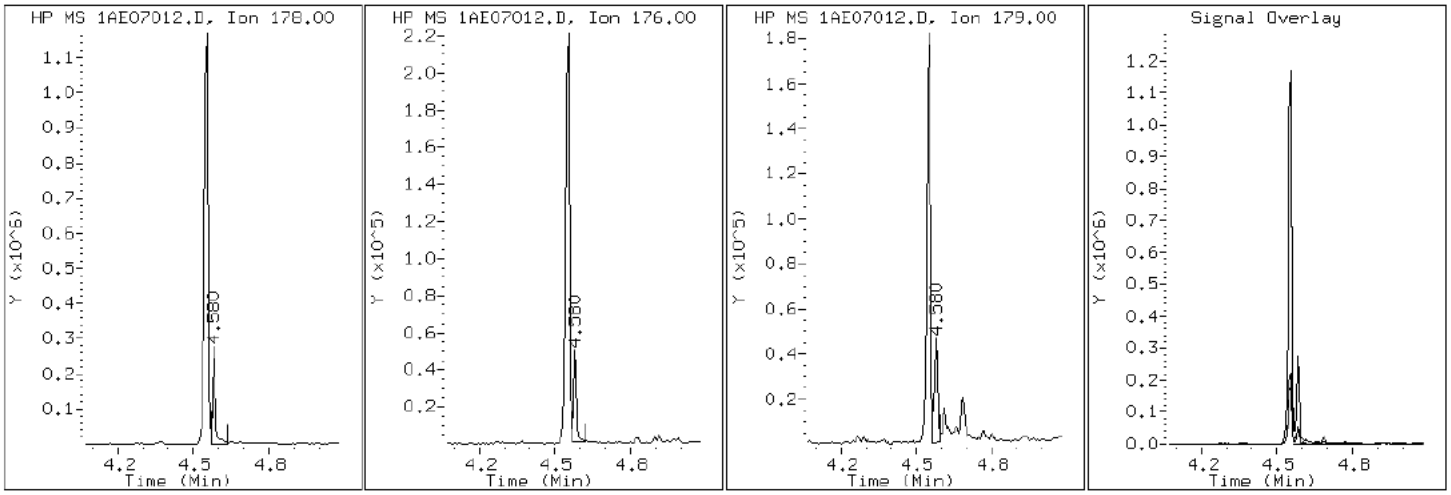
Data File: 1AE07012.D

Date: 07-MAY-2013 15:06

Client ID: CV1114A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-8-a Operator: SCC

12 Anthracene



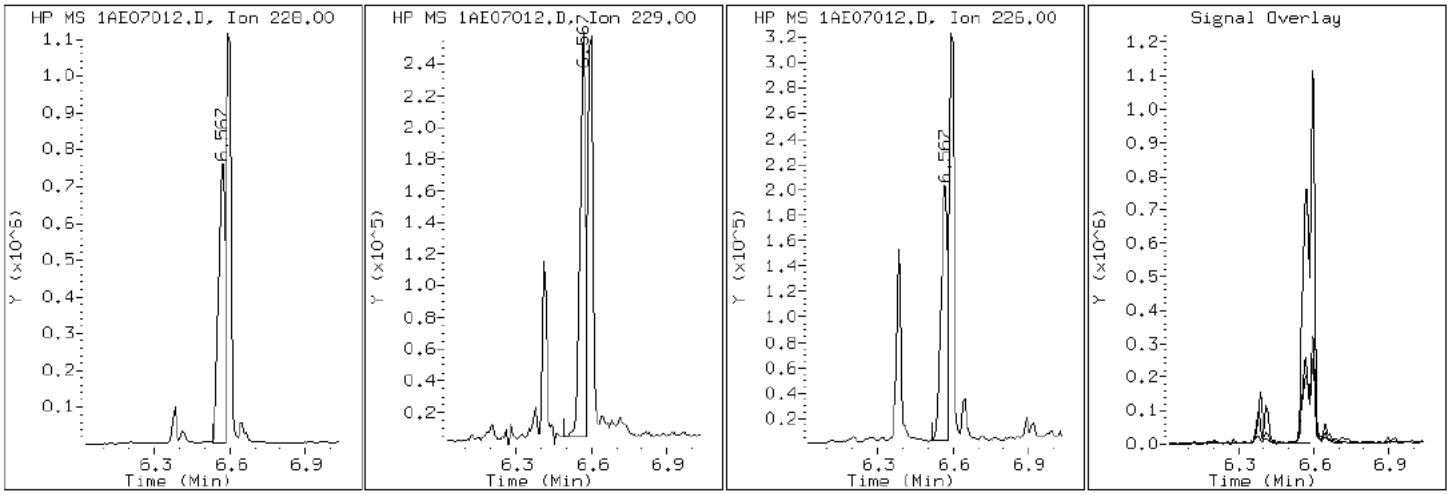
Data File: 1AE07012.D

Date: 07-MAY-2013 15:06

Client ID: CV1114A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-8-a Operator: SCC

17 Benzo(a)anthracene



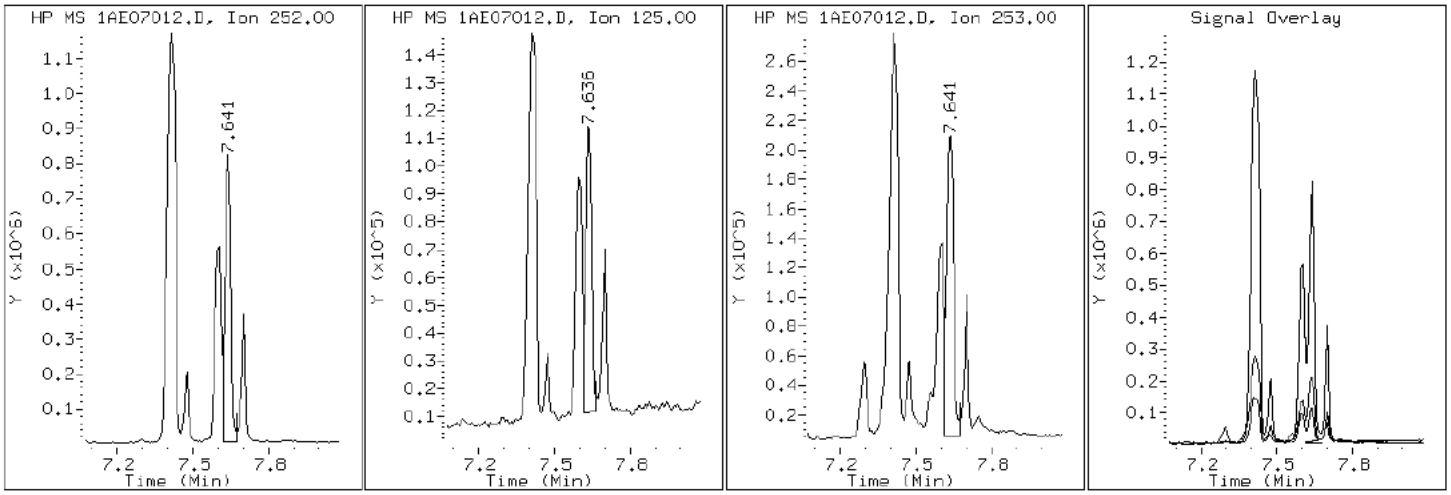
Data File: 1AE07012.D

Date: 07-MAY-2013 15:06

Client ID: CV1114A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-8-a Operator: SCC

22 Benzo(a)pyrene



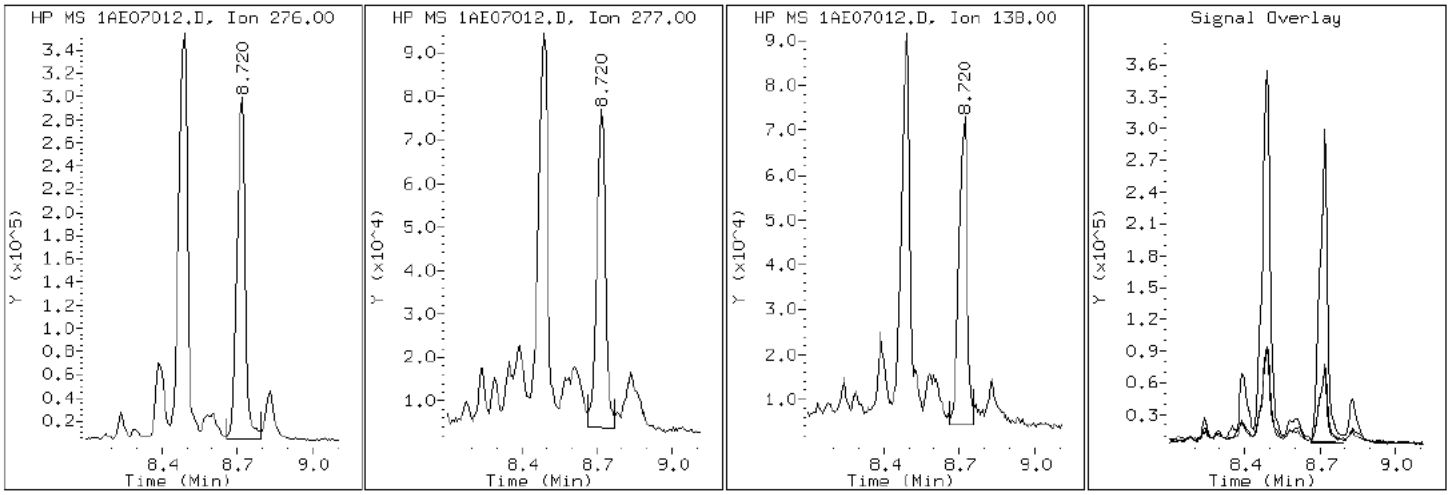
Data File: 1AE07012.D

Date: 07-MAY-2013 15:06

Client ID: CV1114A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-8-a Operator: SCC

26 Benzo(g,h,i)perylene



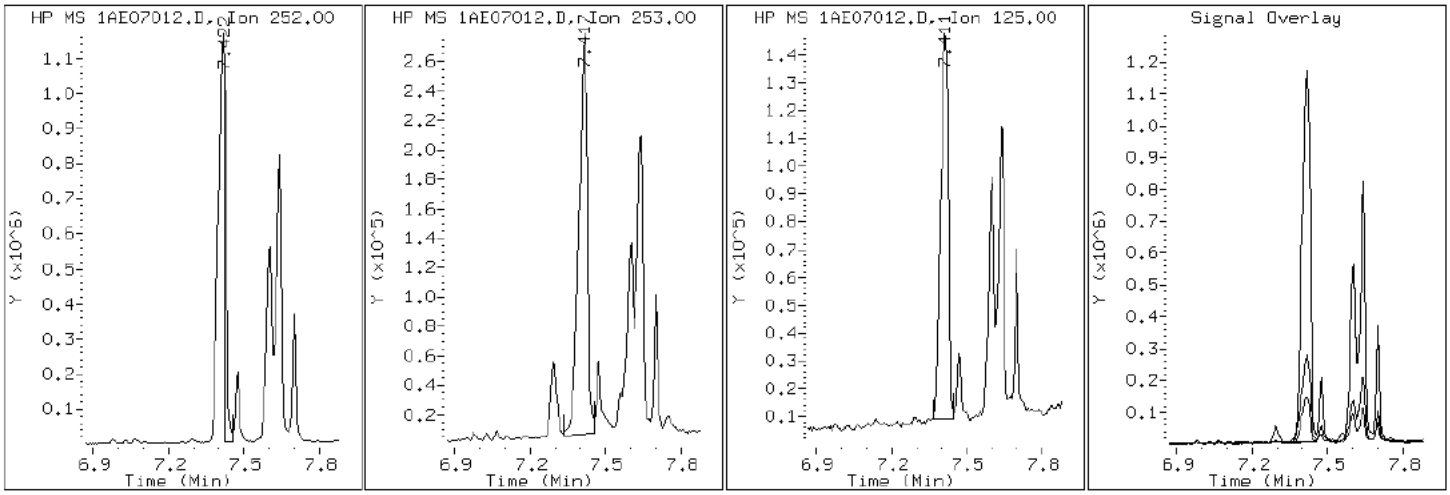
Data File: 1AE07012.D

Date: 07-MAY-2013 15:06

Client ID: CV1114A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-8-a Operator: SCC

21 Benzo(k)fluoranthene



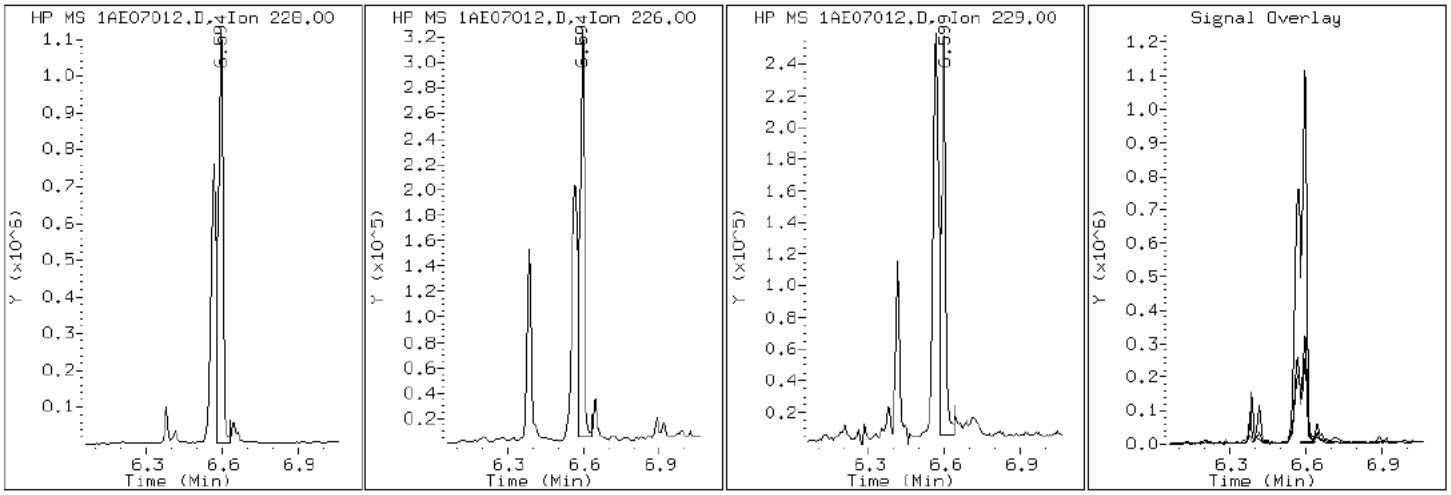
Data File: 1AE07012.D

Date: 07-MAY-2013 15:06

Client ID: CV1114A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-8-a Operator: SCC

19 Chrysene



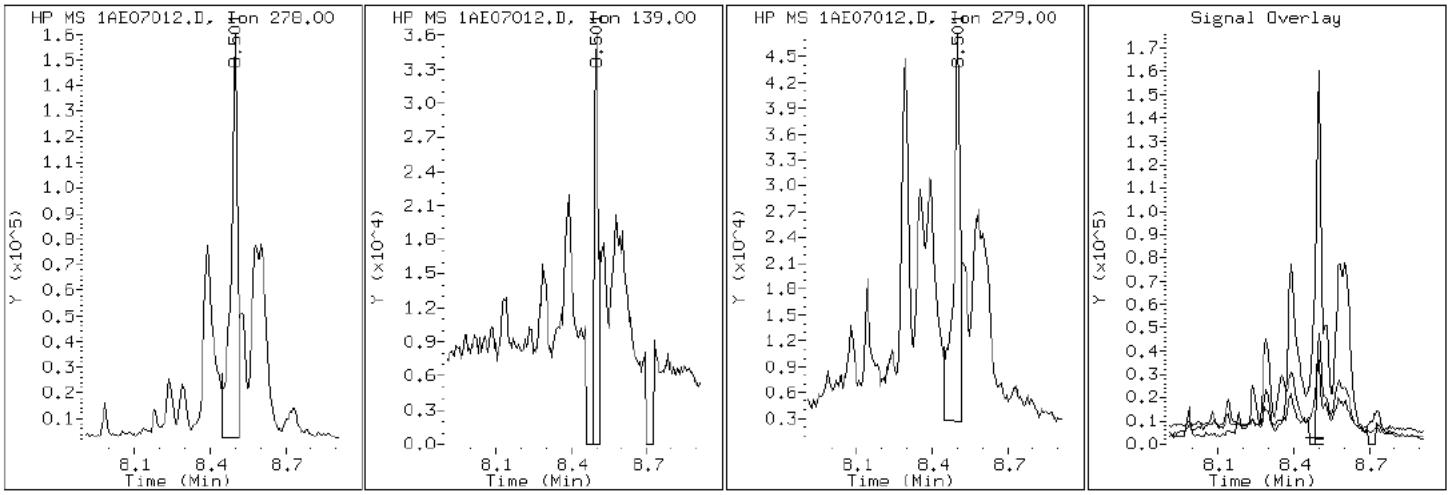
Data File: 1AE07012.D

Date: 07-MAY-2013 15:06

Client ID: CV1114A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-8-a Operator: SCC

25 Dibenzo(a,h)anthracene



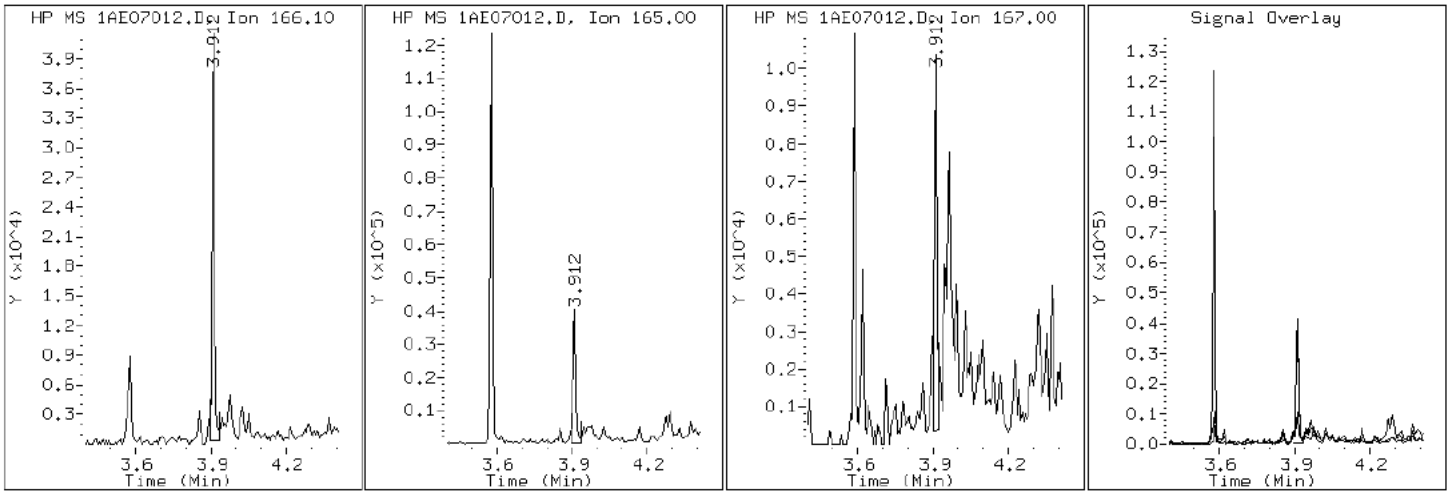
Data File: 1AE07012.D

Date: 07-MAY-2013 15:06

Client ID: CV1114A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-8-a Operator: SCC

9 Fluorene



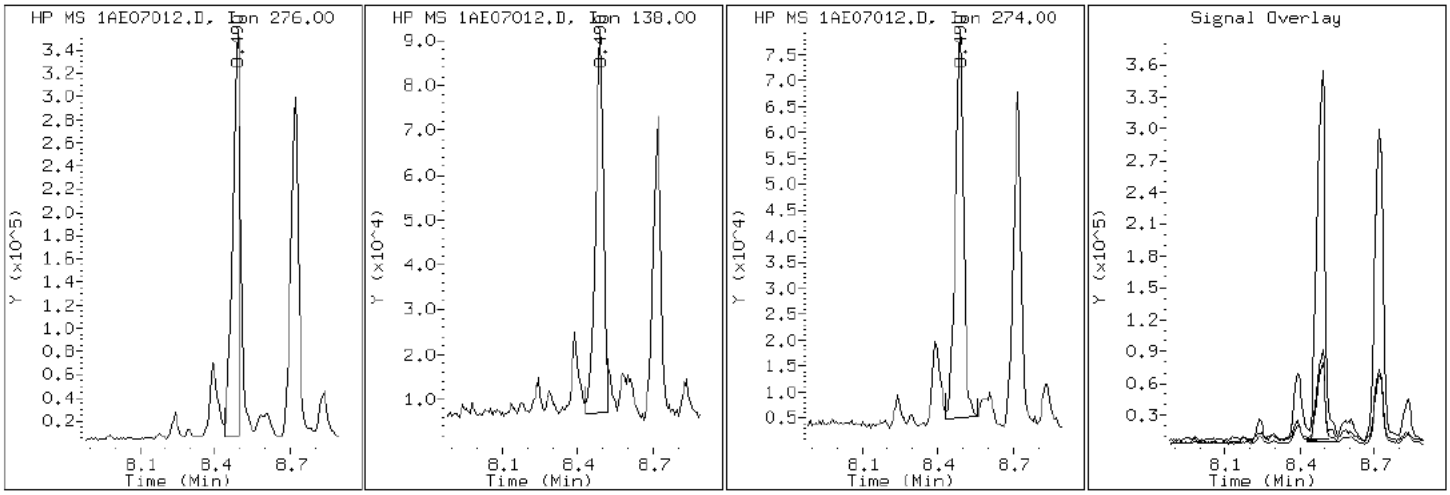
Data File: 1AE07012.D

Date: 07-MAY-2013 15:06

Client ID: CV1114A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-8-a Operator: SCC

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



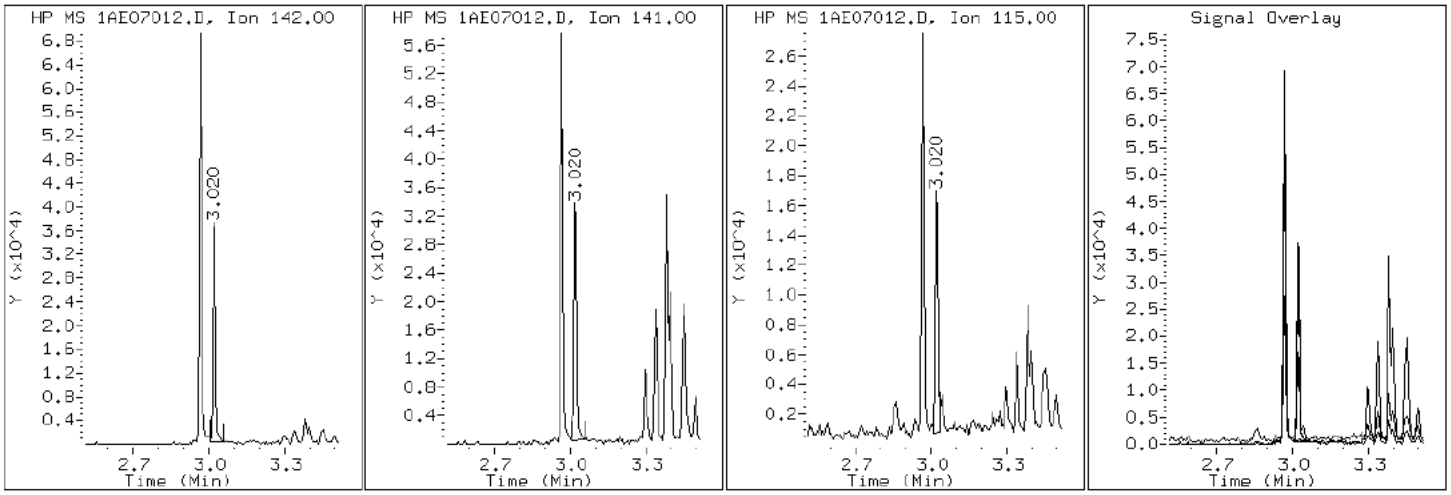
Data File: 1AE07012.D

Date: 07-MAY-2013 15:06

Client ID: CV1114A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-8-a Operator: SCC

4 1-Methylnaphthalene



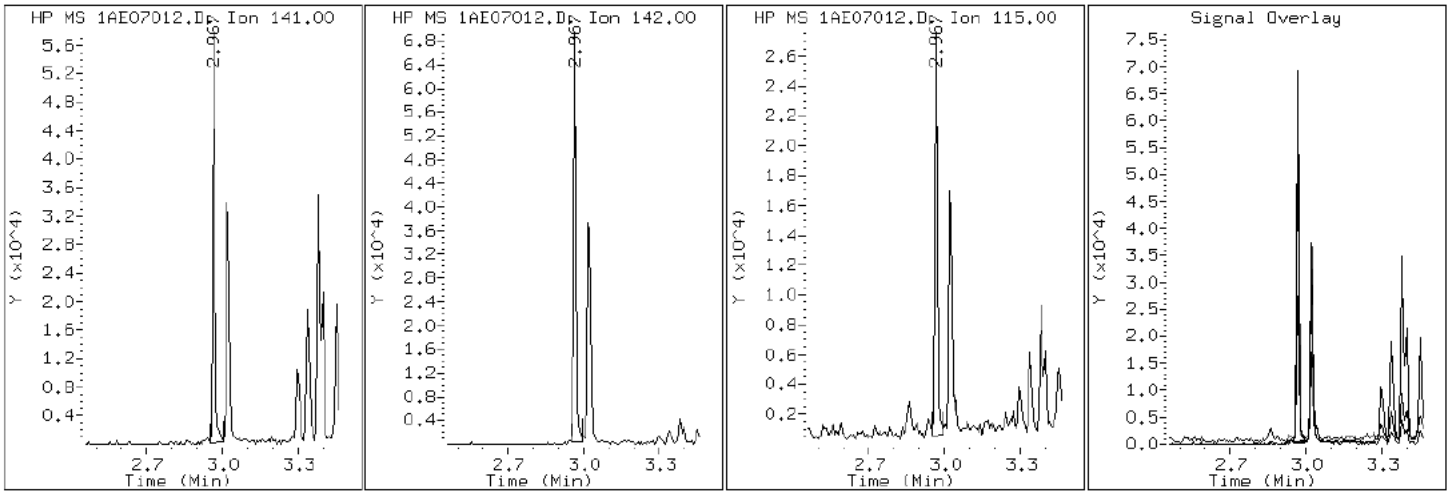
Data File: 1AE07012.D

Date: 07-MAY-2013 15:06

Client ID: CV1114A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-8-a Operator: SCC

3 2-Methylnaphthalene



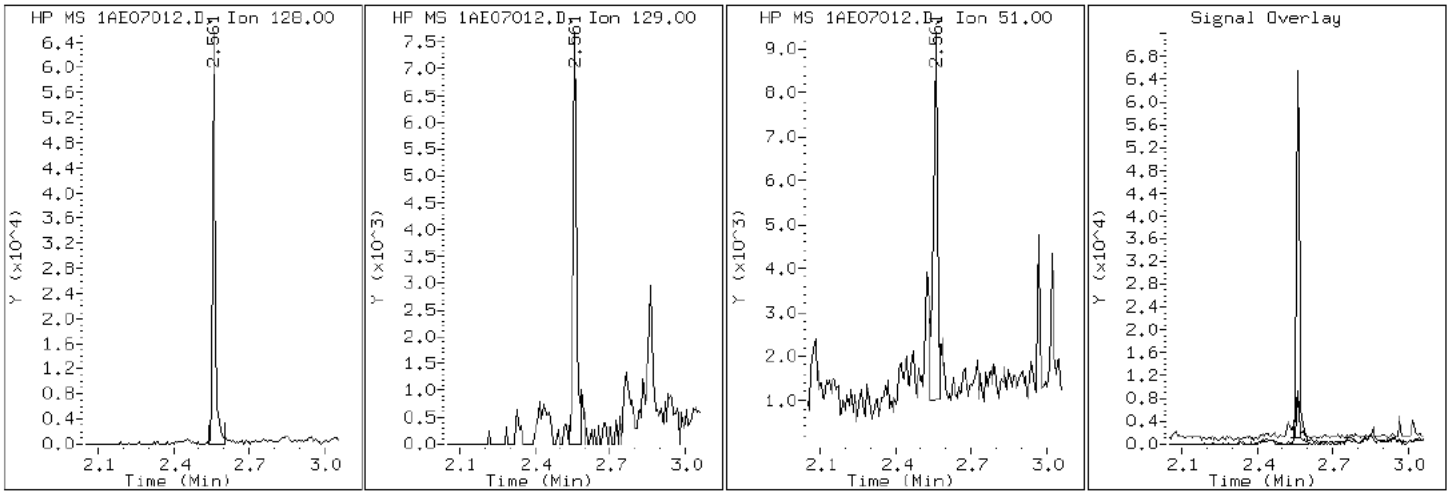
Data File: 1AE07012.D

Date: 07-MAY-2013 15:06

Client ID: CV1114A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-8-a Operator: SCC

2 Naphthalene



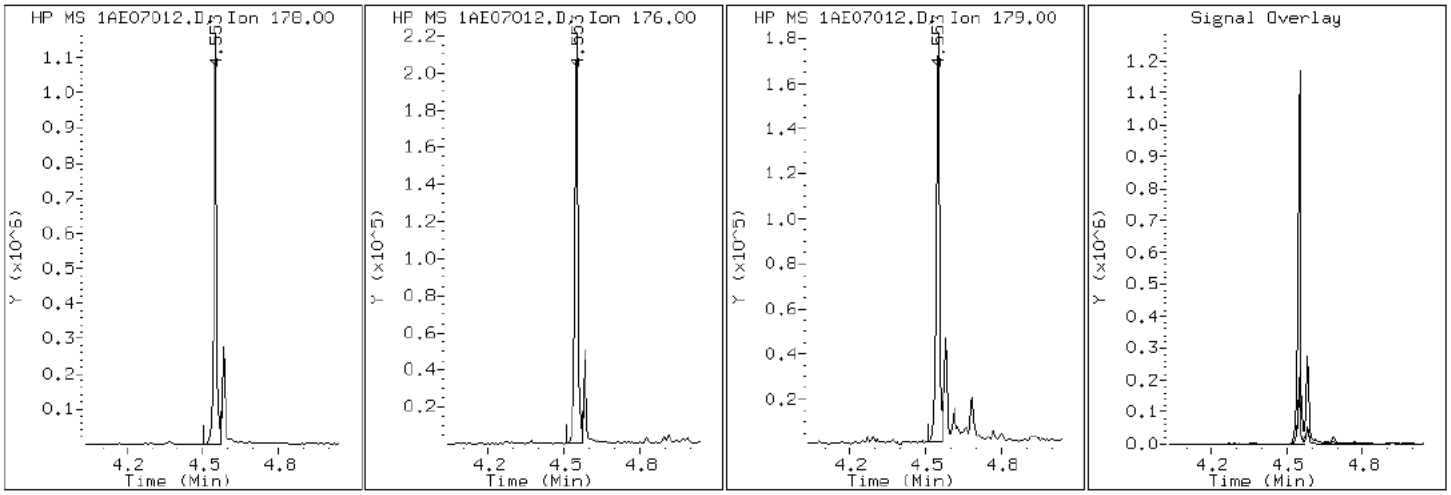
Data File: 1AE07012.D

Date: 07-MAY-2013 15:06

Client ID: CV1114A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-8-a Operator: SCC

11 Phenanthrene



Manual Integration Report

Data File: 1AE07012.D
Inj. Date and Time: 07-MAY-2013 15:06
Instrument ID: BSMA5973.i
Client ID: CV1114A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

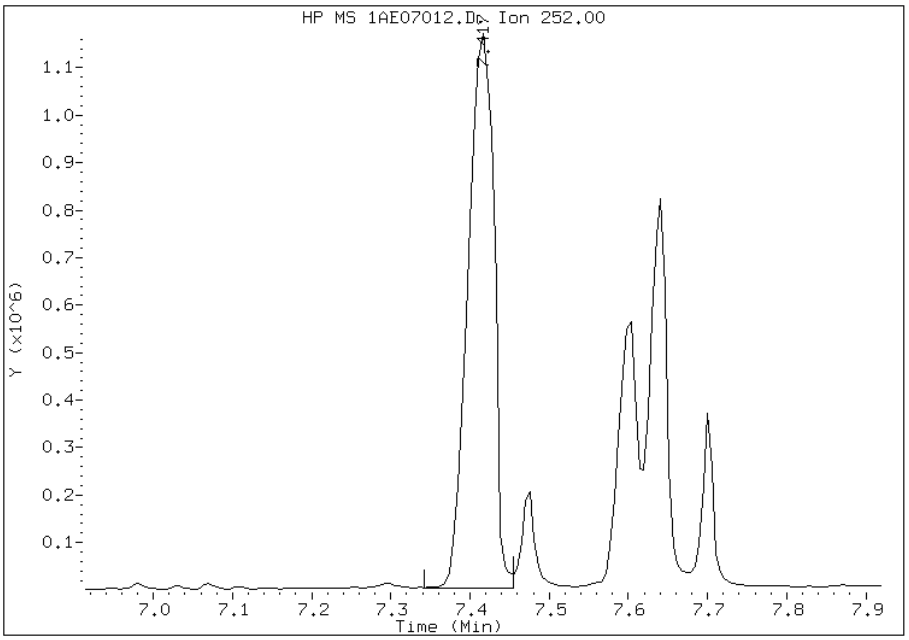
Processing Integration Results

RT: 7.42

Response: 2632629

Amount: 60

Conc: 4514



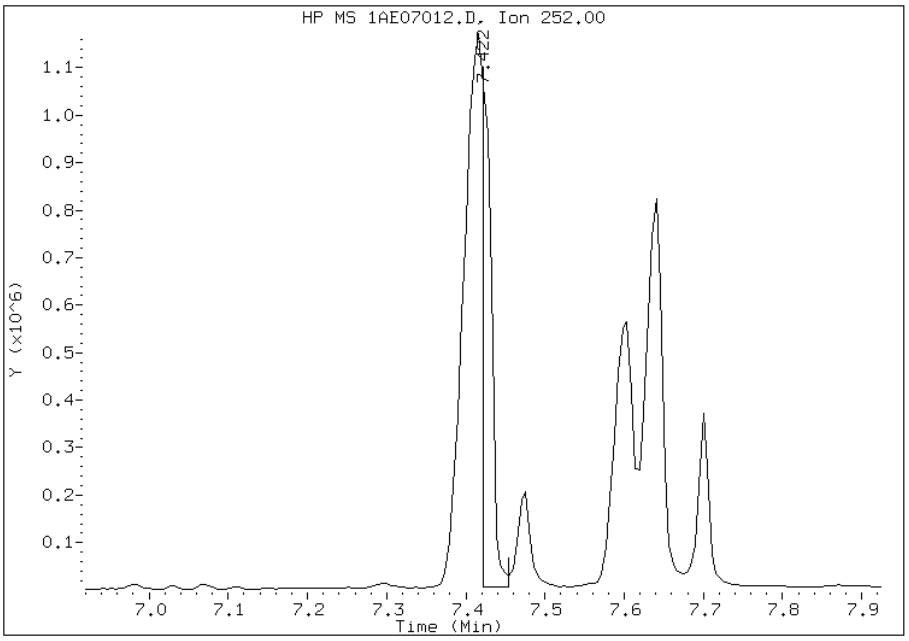
Manual Integration Results

RT: 7.42

Response: 916160

Amount: 21

Conc: 1571



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE07012.D
Inj. Date and Time: 07-MAY-2013 15:06
Instrument ID: BSMA5973.i
Client ID: CV1114A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

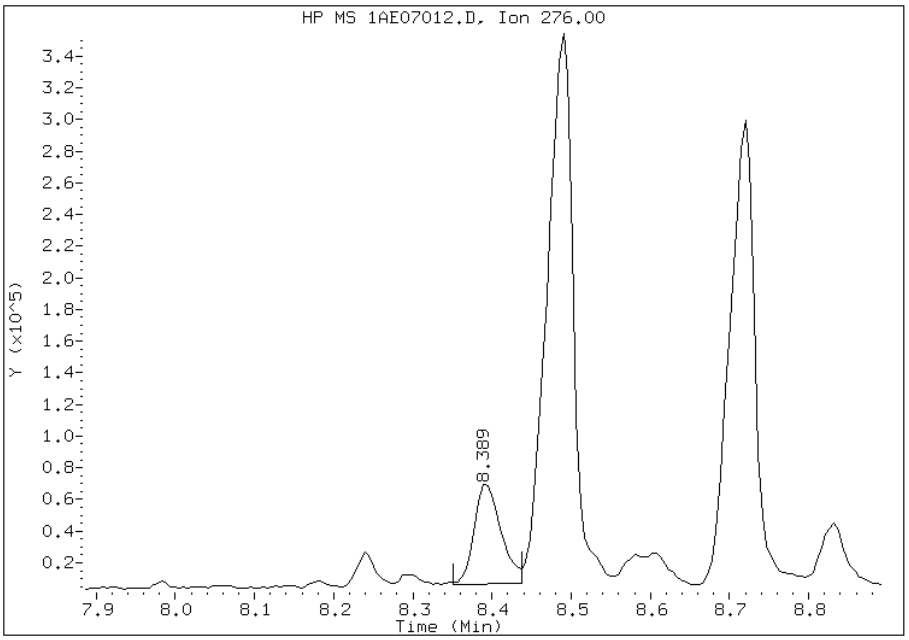
Processing Integration Results

RT: 8.39

Response: 146147

Amount: 5

Conc: 361



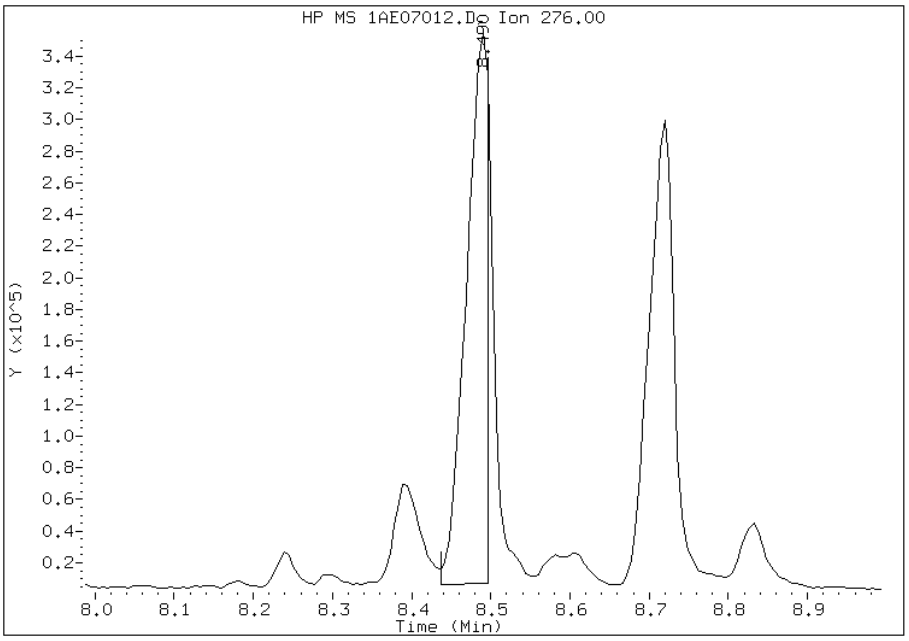
Manual Integration Results

RT: 8.49

Response: 656606

Amount: 22

Conc: 1624



Manually Integrated By: cantins
Modification Date: 09-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.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: CV1114A-CS DL | Lab Sample ID: 680-89985-8 DL

Matrix: Solid | Lab File ID: 1AE09011.D

Analysis Method: 8270C LL | Date Collected: 05/01/2013 13:25

Extract. Method: 3546 | Date Extracted: 05/06/2013 08:14

Sample wt/vol: 15.36(g) | Date Analyzed: 05/09/2013 12:41

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

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

% Moisture: 12.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137283 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
205-99-2	Benzo[b]fluoranthene	3100		55	27
206-44-0	Fluoranthene	4500		90	18
129-00-0	Pyrene	3700		90	17

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050913.b\1AE09011.D
Lab Smp Id: 680-89985-A-8-A Client Smp ID: CV1114A-CS
Inj Date : 09-MAY-2013 12:41
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89985-A-8-A
Misc Info : 680-89985-A-8-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050913.b\a-bFASTPAHi-m.m
Meth Date : 09-May-2013 11:07 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 18
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	15.360	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	2.547	2.543	(1.000)	953685	40.0000	
* 6 Acenaphthene-d10	164	3.578	3.574	(1.000)	488762	40.0000	
* 10 Phenanthrene-d10	188	4.534	4.520	(1.000)	768867	40.0000	
$ 14 o-Terphenyl	230	4.822	4.819	(1.064)	15753	1.43155	372.7992
* 18 Chrysene-d12	240	6.559	6.539	(1.000)	636522	40.0000	
* 23 Perylene-d12	264	7.654	7.634	(1.000)	699886	40.0000	
2 Naphthalene	128	2.557	2.554	(1.004)	11338	0.50484	131.4694
3 2-Methylnaphthalene	141	2.963	2.960	(1.164)	6864	0.60138	156.6096
4 1-Methylnaphthalene	142	3.022	3.013	(1.187)	6134	0.44837	116.7634
5 Acenaphthylene	152	3.492	3.484	(0.976)	7140	0.31089	80.9605
7 Acenaphthene	154	3.594	3.590	(1.004)	8107	0.61467	160.0701
9 Fluorene	166	3.909	3.906	(1.093)	6035	0.40152	104.5614
11 Phenanthrene	178	4.545	4.536	(1.002)	184242	9.67248	2518.8755
12 Anthracene	178	4.577	4.573	(1.009)	44890	2.21236	576.1345

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	4.726	4.707	(1.042)	35367	1.93860	504.8436
15 Fluoranthene	202	5.415	5.401	(1.194)	332433	15.1705	3950.6509
16 Pyrene	202	5.581	5.567	(0.851)	252147	12.3238	3209.3108
17 Benzo(a)anthracene	228	6.553	6.534	(0.999)	164467	9.19375	2394.2047
19 Chrysene	228	6.575	6.561	(1.002)	157862	7.84301	2042.4495
20 Benzo(b)fluoranthene	252	7.376	7.351	(0.964)	191049	10.3274	2689.4376(M)
21 Benzo(k)fluoranthene	252	7.376	7.373	(0.964)	264078	11.5068	2996.5539
22 Benzo(a)pyrene	252	7.600	7.581	(0.993)	122315	6.43812	1676.5948
24 Indeno(1,2,3-cd)pyrene	276	8.423	8.398	(1.101)	84191	5.28972	1377.5323
25 Dibenzo(a,h)anthracene	278	8.444	8.425	(1.103)	23873	1.46327	381.0605
26 Benzo(g,h,i)perylene	276	8.642	8.617	(1.129)	71633	4.18536	1089.9373

QC Flag Legend

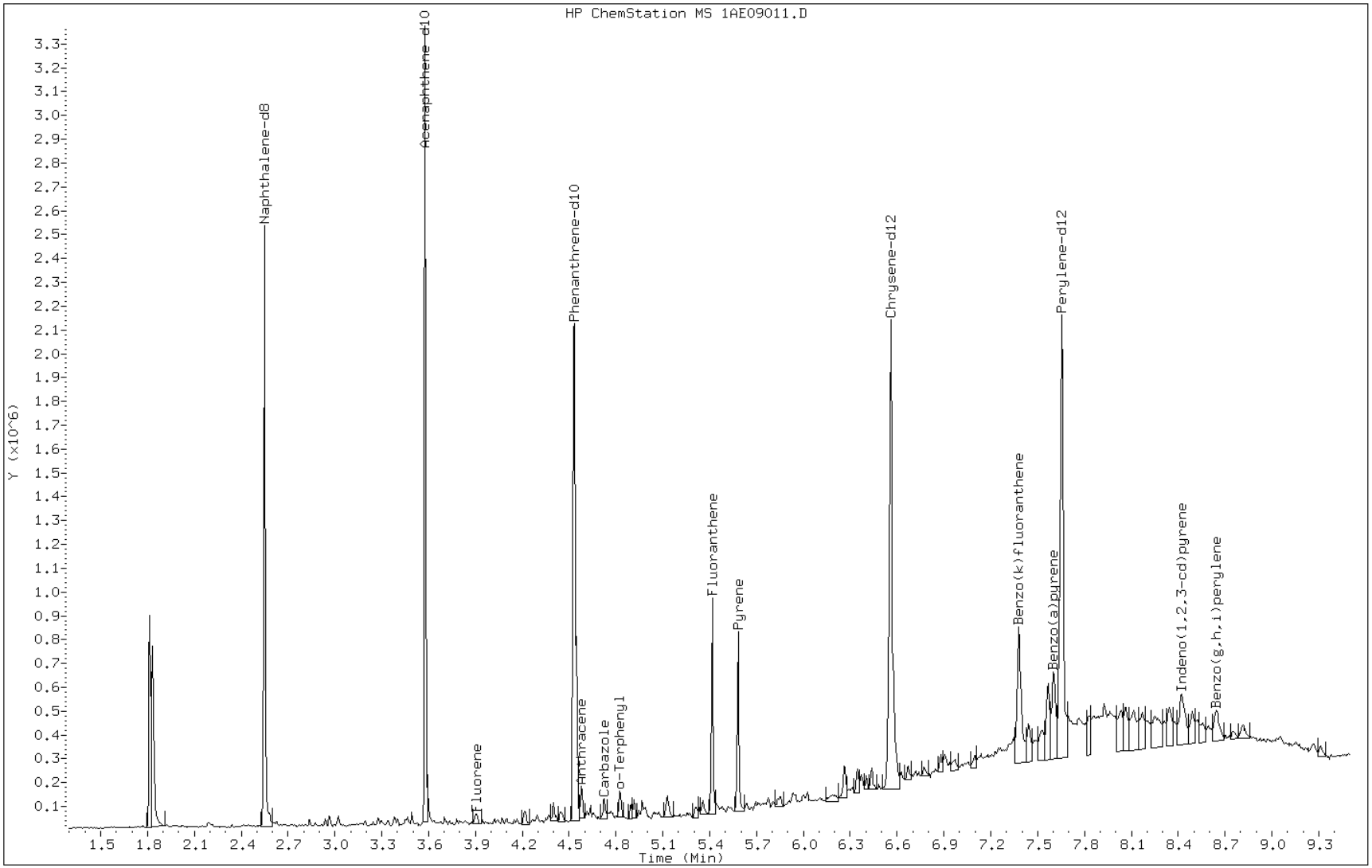
M - Compound response manually integrated.

Data File: 1AE09011.D

Date: 09-MAY-2013 12:41

Client ID: CV1114A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-A-8-A Operator: SCC



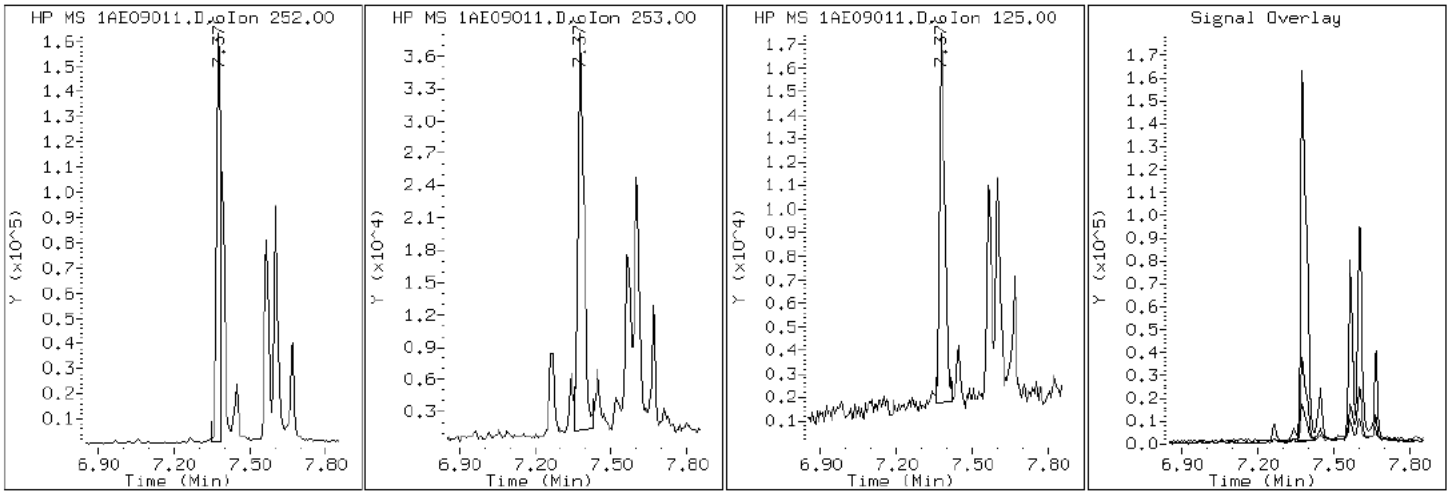
Data File: 1AE09011.D

Date: 09-MAY-2013 12:41

Client ID: CV1114A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-A-8-A Operator: SCC

20 Benzo(b)fluoranthene



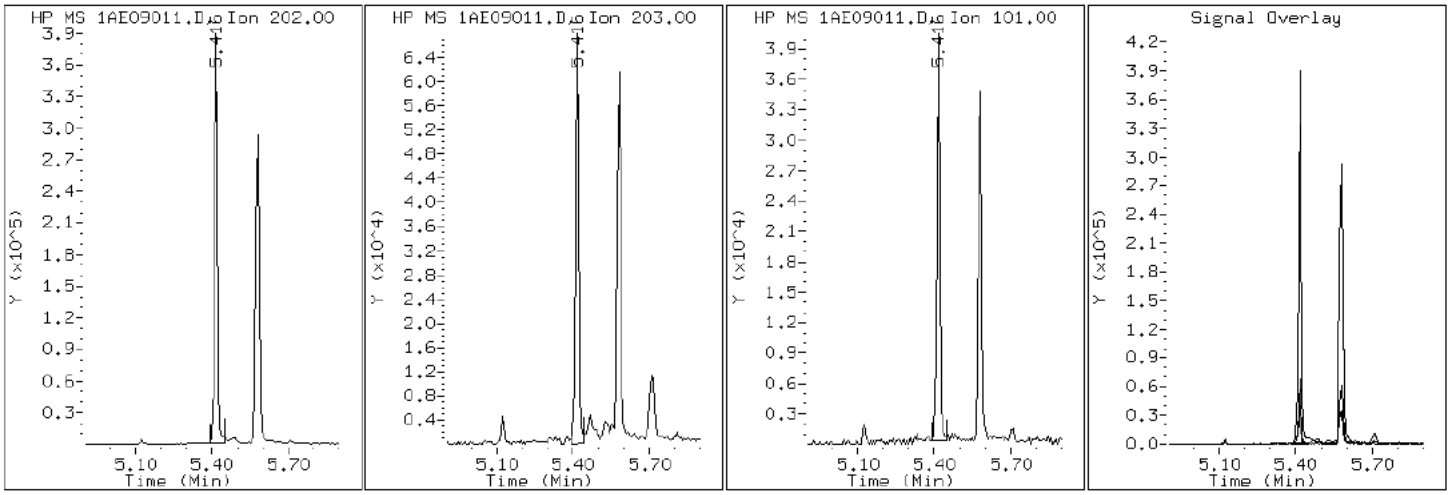
Data File: 1AE09011.D

Date: 09-MAY-2013 12:41

Client ID: CV1114A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-A-8-A Operator: SCC

15 Fluoranthene



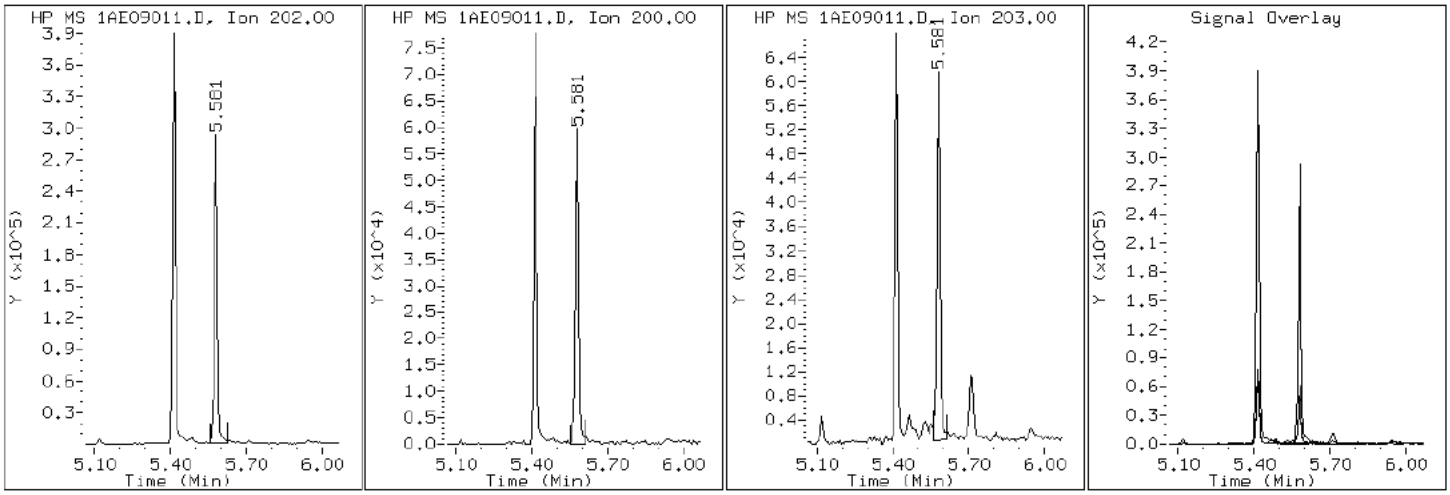
Data File: 1AE09011.D

Date: 09-MAY-2013 12:41

Client ID: CV1114A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-A-8-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE09011.D
Inj. Date and Time: 09-MAY-2013 12:41
Instrument ID: BSMA5973.i
Client ID: CV1114A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

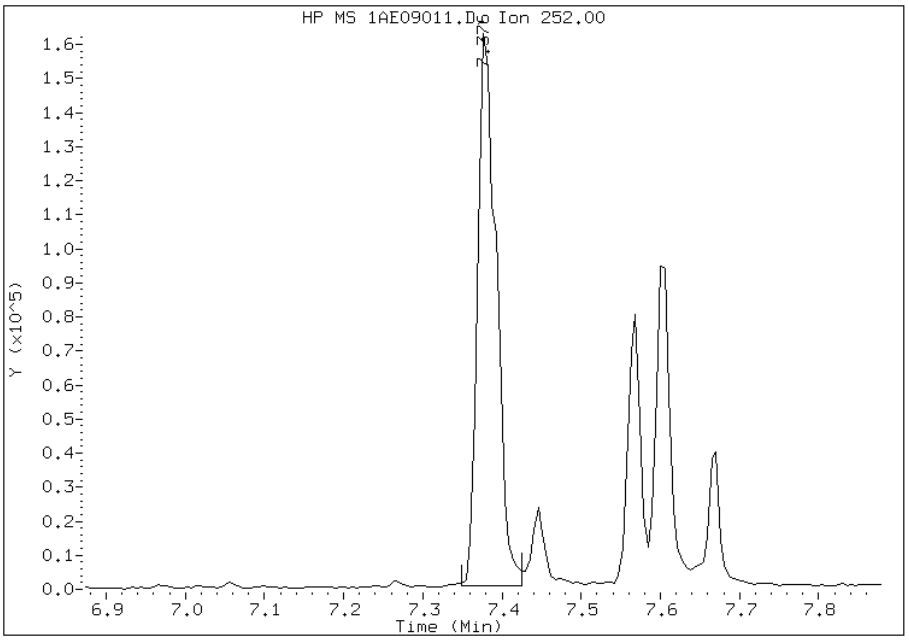
Processing Integration Results

RT: 7.38

Response: 264078

Amount: 14

Conc: 3717



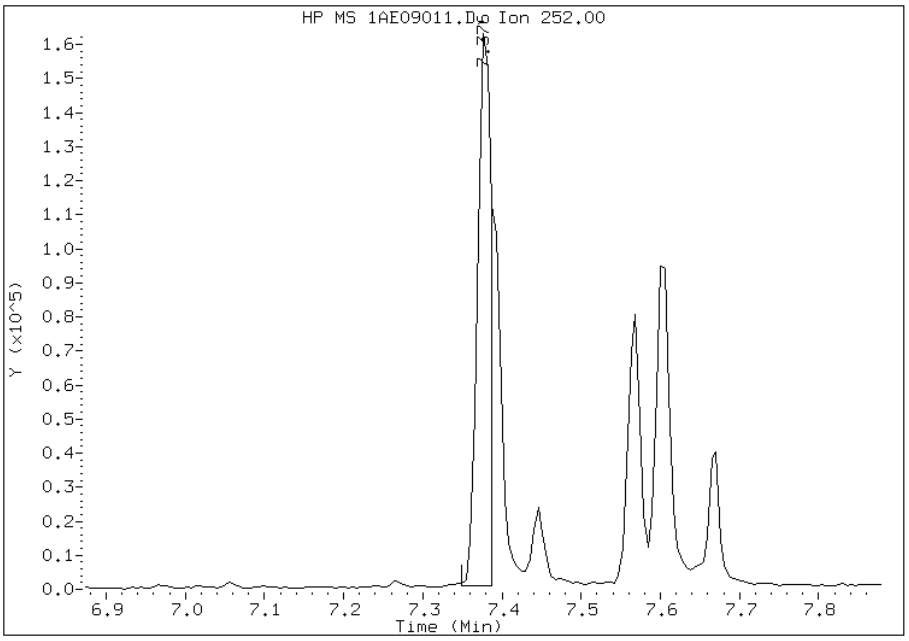
Manual Integration Results

RT: 7.38

Response: 191049

Amount: 10

Conc: 2689



Manually Integrated By: cantins
Modification Date: 09-May-2013 12:54
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: CV1114A-CSD | Lab Sample ID: 680-89985-9

Matrix: Solid | Lab File ID: 1AE07013.D

Analysis Method: 8270C LL | Date Collected: 05/01/2013 13:25

Extract. Method: 3546 | Date Extracted: 05/06/2013 08:14

Sample wt/vol: 15.08(g) | Date Analyzed: 05/07/2013 15:22

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

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

% Moisture: 17.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137194 | 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	6.1
120-12-7	Anthracene	35		10	5.1
56-55-3	Benzo[a]anthracene	150		9.7	4.7
50-32-8	Benzo[a]pyrene	130		13	6.3
205-99-2	Benzo[b]fluoranthene	180		15	7.4
191-24-2	Benzo[g,h,i]perylene	110		24	5.3
207-08-9	Benzo[k]fluoranthene	100		9.7	4.4
218-01-9	Chrysene	160		11	5.4
53-70-3	Dibenz(a,h)anthracene	31		24	5.0
206-44-0	Fluoranthene	230		24	4.8
86-73-7	Fluorene	6.8	J	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	100		24	8.6
90-12-0	1-Methylnaphthalene	56		48	5.3
91-57-6	2-Methylnaphthalene	78		48	8.6
91-20-3	Naphthalene	58		48	5.3
85-01-8	Phenanthrene	150		9.7	4.7
129-00-0	Pyrene	180		24	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	67		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\1AE07013.D
Lab Smp Id: 680-89985-A-9-A Client Smp ID: CV1114A-CSD
Inj Date : 07-MAY-2013 15:22
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89985-a-9-a
Misc Info : 680-89985-A-9-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\a-bFASTPAHi-m.m
Meth Date : 07-May-2013 13:04 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 13
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	18.000	% 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	2.544	(1.000)	1248681	40.0000	
* 6 Acenaphthene-d10	164	3.585	3.575	(1.000)	660609	40.0000	
* 10 Phenanthrene-d10	188	4.536	4.526	(1.000)	890253	40.0000	
$ 14 o-Terphenyl	230	4.829	4.820	(1.065)	85218	6.68824	540.8749
* 18 Chrysene-d12	240	6.566	6.545	(1.000)	937549	40.0000	
* 23 Perylene-d12	264	7.661	7.630	(1.000)	1146199	40.0000	
2 Naphthalene	128	2.564	2.555	(1.004)	21151	0.71929	58.1686
3 2-Methylnaphthalene	141	2.970	2.961	(1.163)	14453	0.96713	78.2111
4 1-Methylnaphthalene	142	3.024	3.014	(1.184)	12467	0.69600	56.2852
5 Acenaphthylene	152	3.494	3.484	(0.975)	11177	0.36007	29.1185
9 Fluorene	166	3.911	3.906	(1.091)	1703	0.08383	6.7791(Q)
11 Phenanthrene	178	4.546	4.537	(1.002)	40880	1.85352	149.8934
12 Anthracene	178	4.584	4.574	(1.011)	10253	0.43641	35.2922
13 Carbazole	167	4.723	4.707	(1.041)	5198	0.24607	19.8998

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	5.417	5.402	(1.194)	72974	2.87608	232.5875
16 Pyrene	202	5.583	5.568	(0.850)	66577	2.20919	178.6560
17 Benzo(a)anthracene	228	6.555	6.529	(0.998)	47991	1.82135	147.2915
19 Chrysene	228	6.576	6.561	(1.002)	60610	2.04441	165.3306
20 Benzo(b)fluoranthene	252	7.372	7.352	(0.962)	68993	2.27730	184.1641(M)
21 Benzo(k)fluoranthene	252	7.383	7.373	(0.964)	46544	1.23837	100.1467(M)
22 Benzo(a)pyrene	252	7.602	7.576	(0.992)	51532	1.65624	133.9395
24 Indeno(1,2,3-cd)pyrene	276	8.419	8.388	(1.099)	33467	1.28396	103.8331(M)
25 Dibenzo(a,h)anthracene	278	8.441	8.410	(1.102)	10154	0.38003	30.7331
26 Benzo(g,h,i)perylene	276	8.644	8.602	(1.128)	36837	1.31423	106.2810

QC Flag Legend

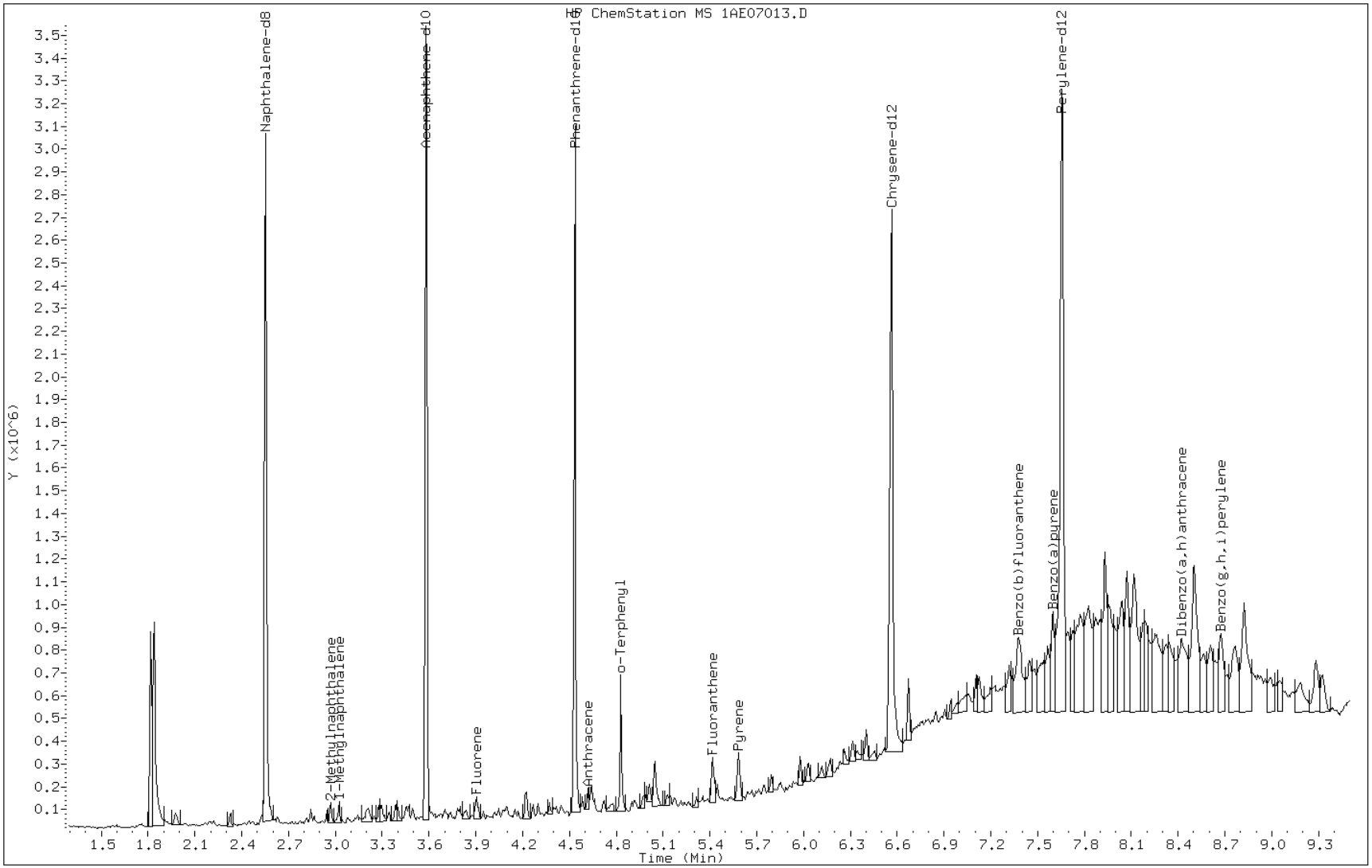
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE07013.D

Date: 07-MAY-2013 15:22

Client ID: CV1114A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-9-a Operator: SCC



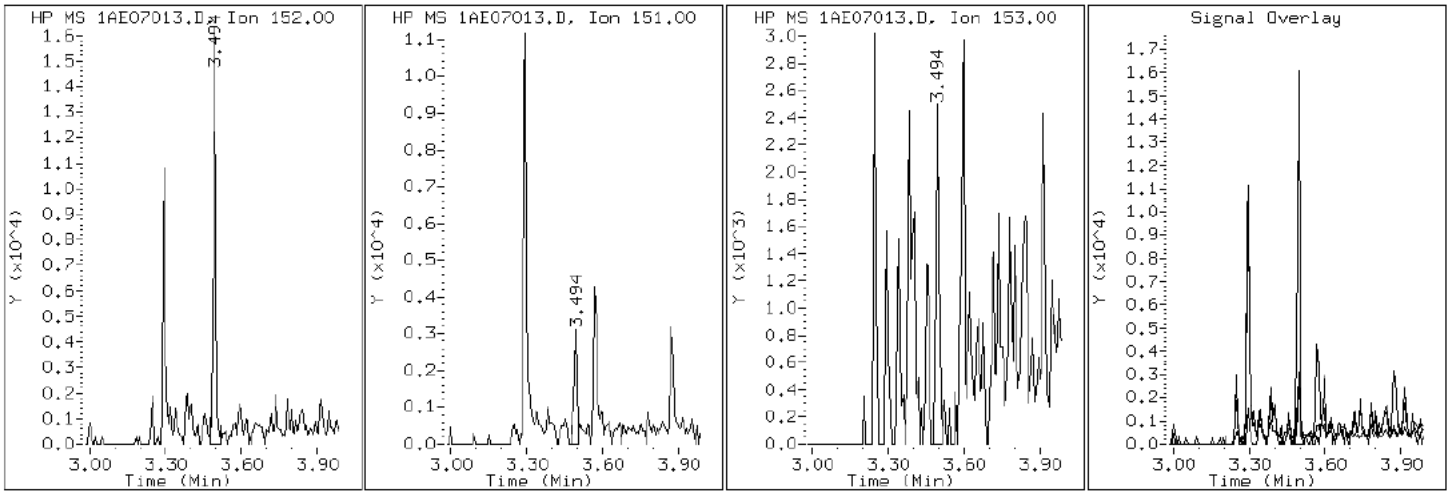
Data File: 1AE07013.D

Date: 07-MAY-2013 15:22

Client ID: CV1114A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-9-a Operator: SCC

5 Acenaphthylene



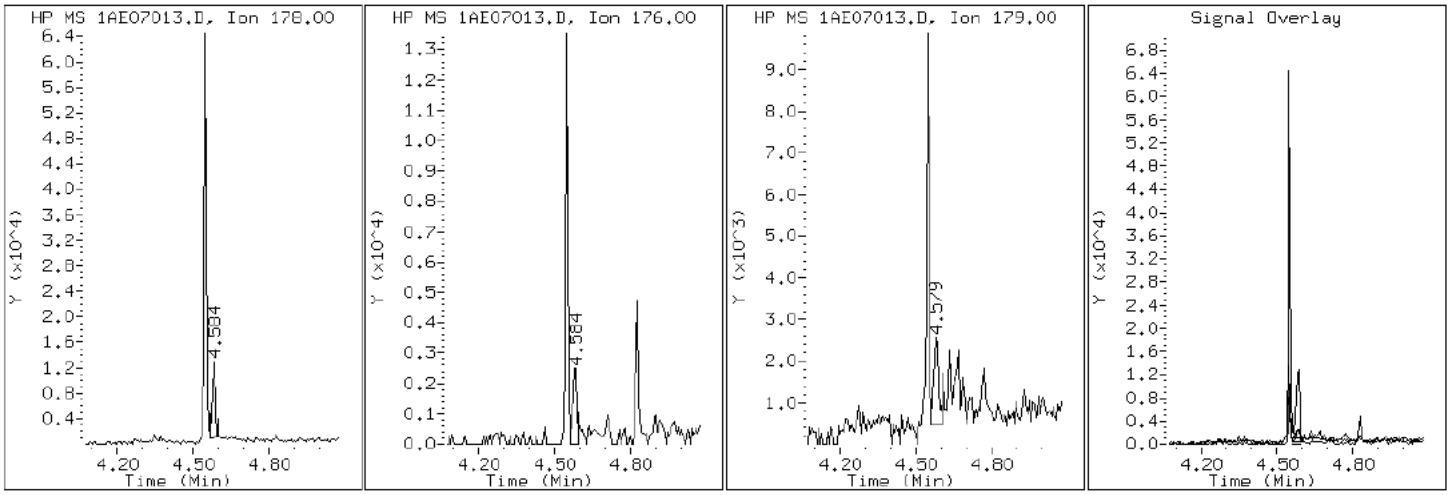
Data File: 1AE07013.D

Date: 07-MAY-2013 15:22

Client ID: CV1114A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-9-a Operator: SCC

12 Anthracene



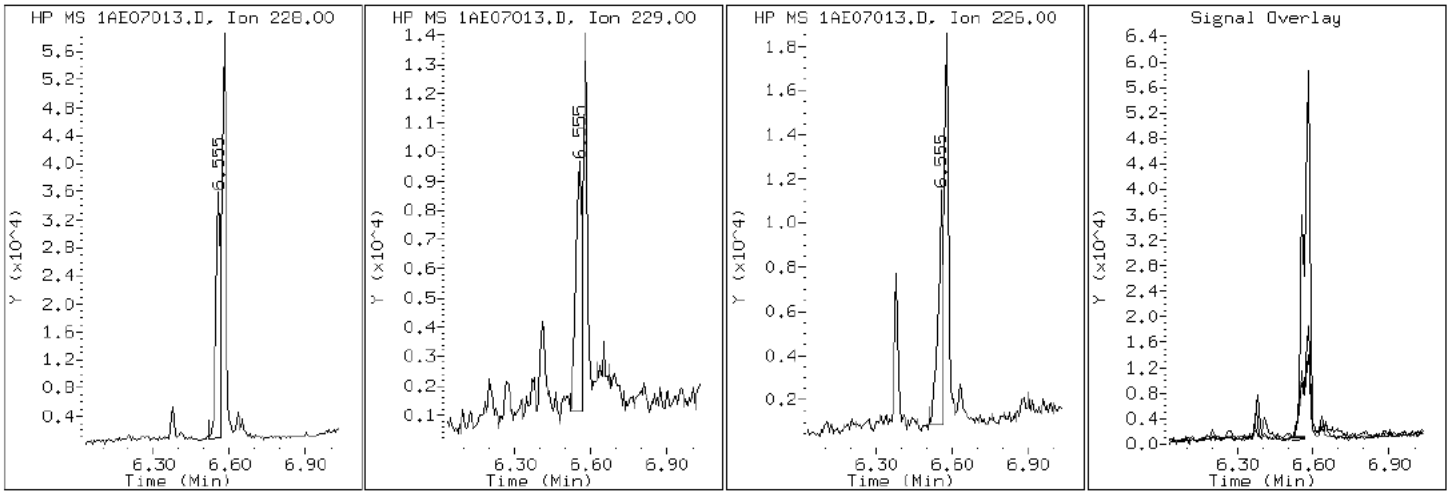
Data File: 1AE07013.D

Date: 07-MAY-2013 15:22

Client ID: CV1114A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-9-a Operator: SCC

17 Benzo(a)anthracene



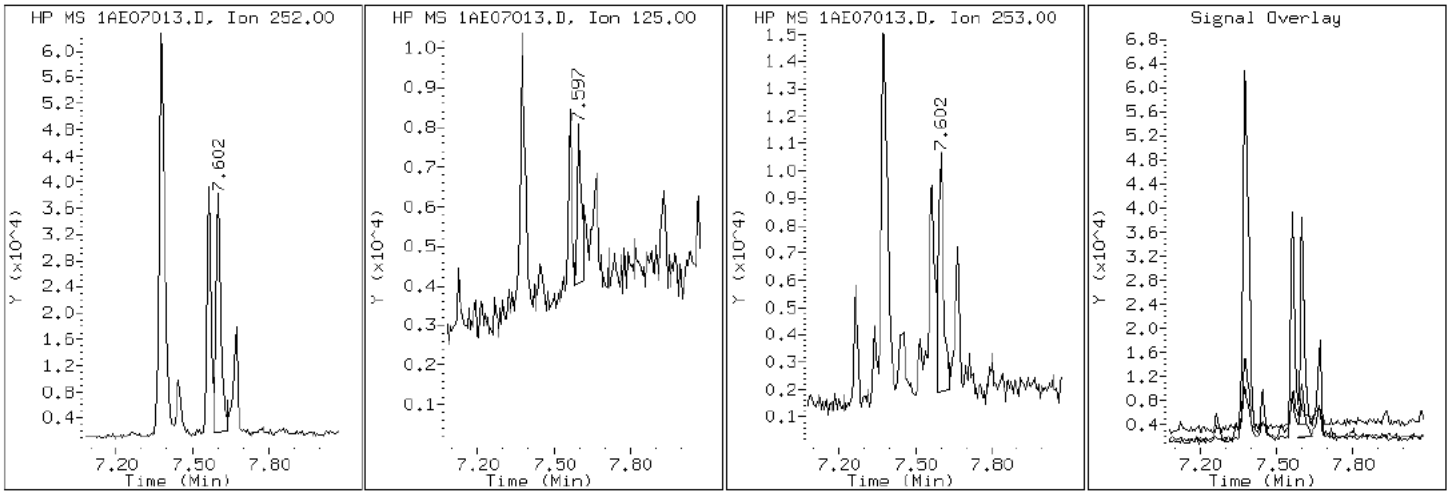
Data File: 1AE07013.D

Date: 07-MAY-2013 15:22

Client ID: CV1114A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-9-a Operator: SCC

22 Benzo(a)pyrene



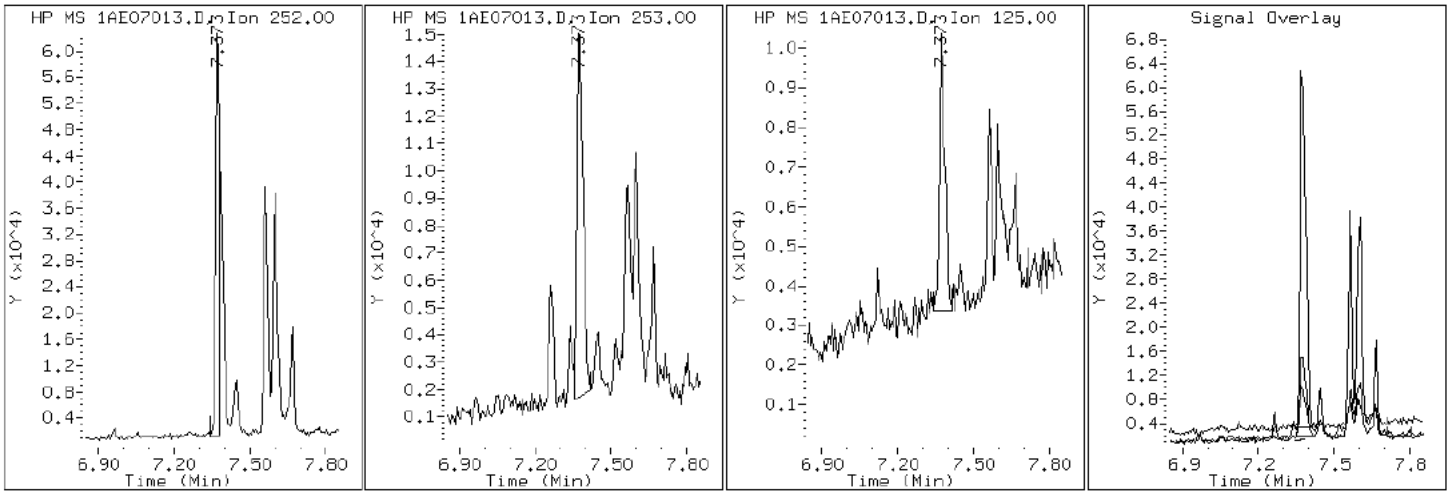
Data File: 1AE07013.D

Date: 07-MAY-2013 15:22

Client ID: CV1114A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-9-a Operator: SCC

20 Benzo(b)fluoranthene



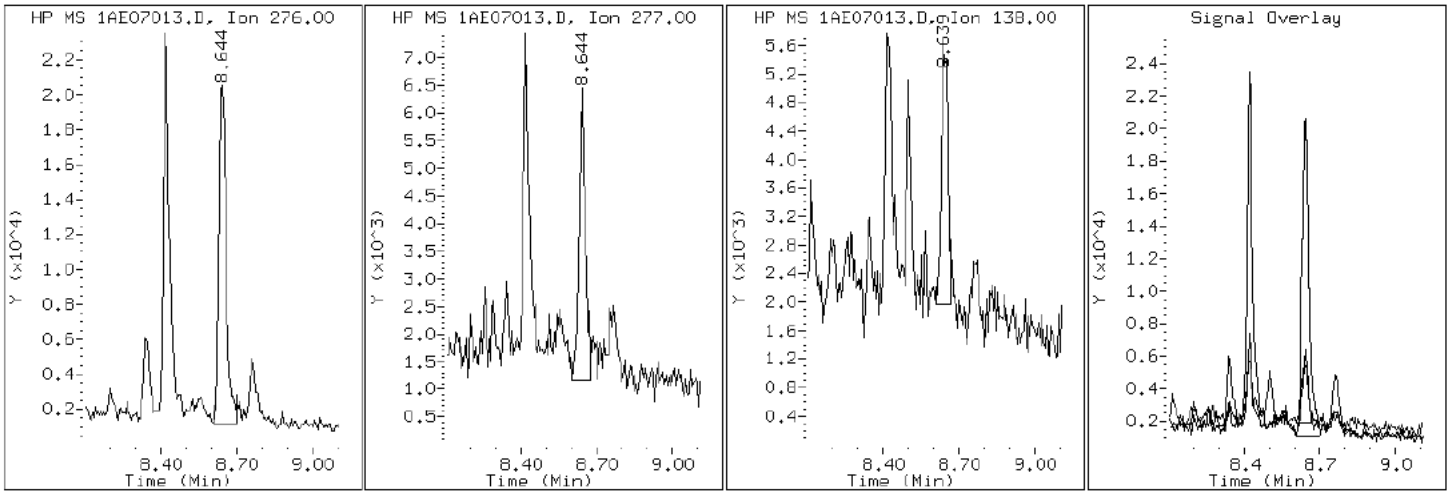
Data File: 1AE07013.D

Date: 07-MAY-2013 15:22

Client ID: CV1114A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-9-a Operator: SCC

26 Benzo(g,h,i)perylene



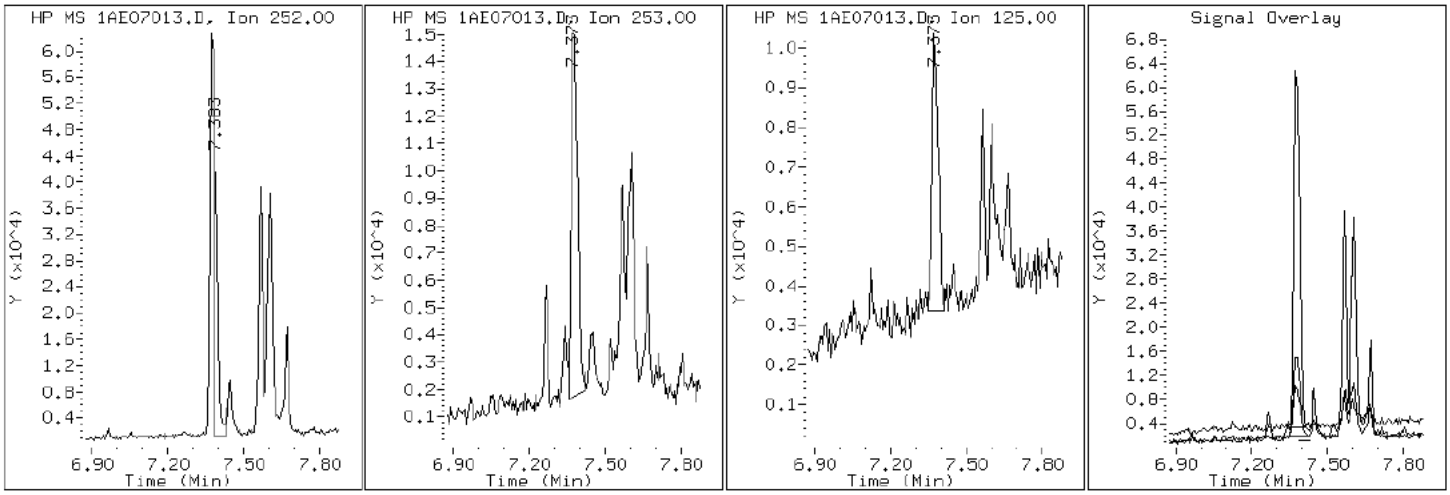
Data File: 1AE07013.D

Date: 07-MAY-2013 15:22

Client ID: CV1114A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-9-a Operator: SCC

21 Benzo(k)fluoranthene



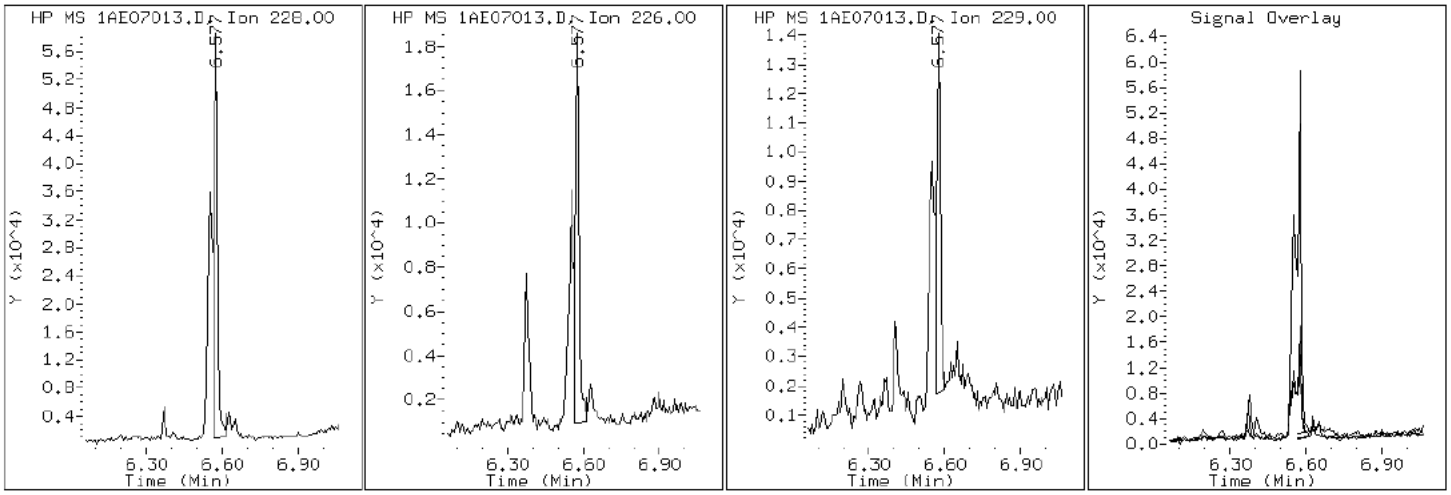
Data File: 1AE07013.D

Date: 07-MAY-2013 15:22

Client ID: CV1114A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-9-a Operator: SCC

19 Chrysene



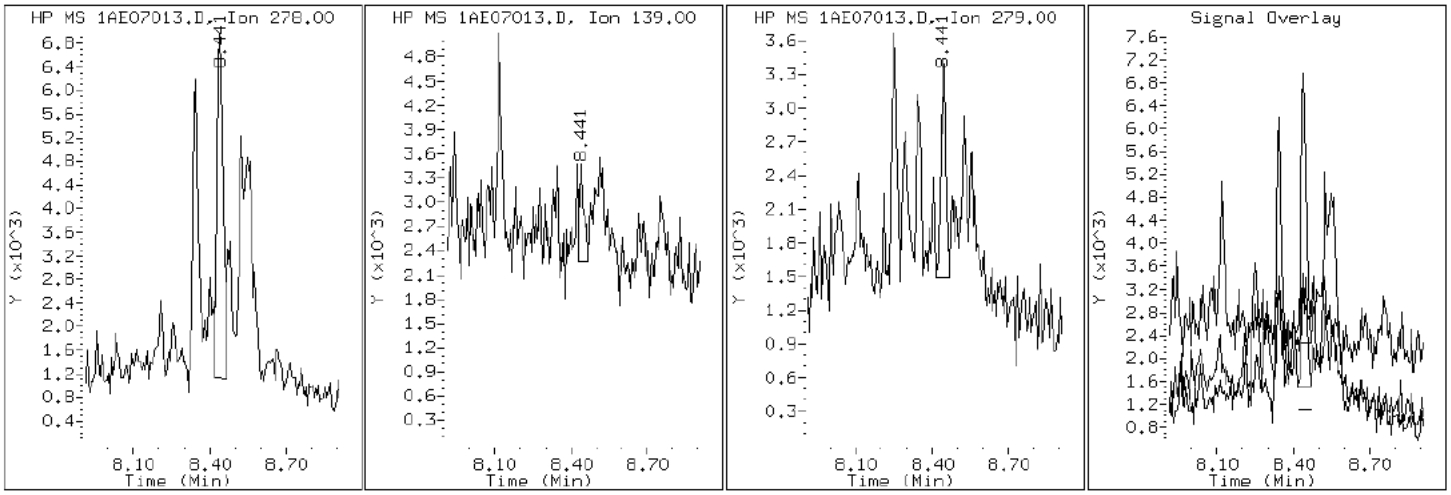
Data File: 1AE07013.D

Date: 07-MAY-2013 15:22

Client ID: CV1114A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-9-a Operator: SCC

25 Dibenzo(a,h)anthracene



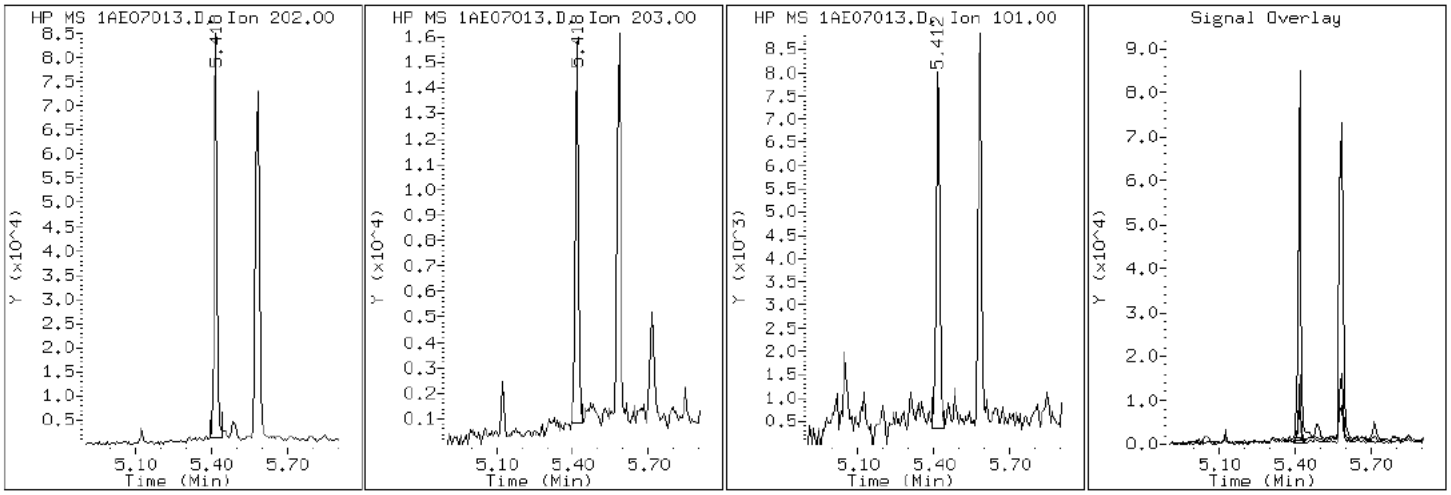
Data File: 1AE07013.D

Date: 07-MAY-2013 15:22

Client ID: CV1114A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-9-a Operator: SCC

15 Fluoranthene



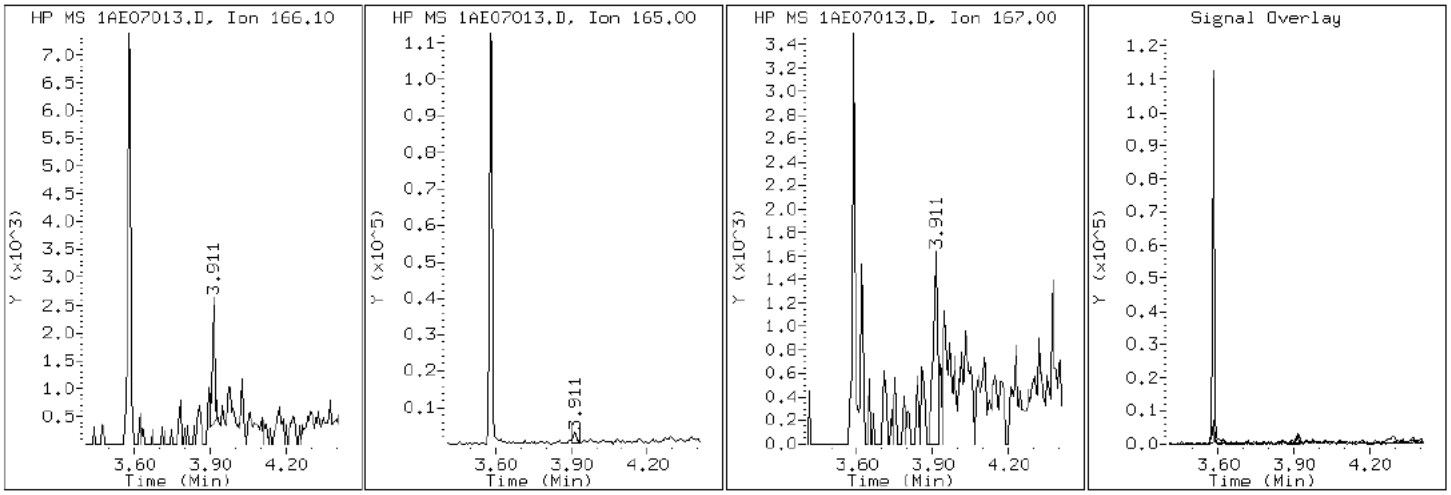
Data File: 1AE07013.D

Date: 07-MAY-2013 15:22

Client ID: CV1114A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-9-a Operator: SCC

9 Fluorene



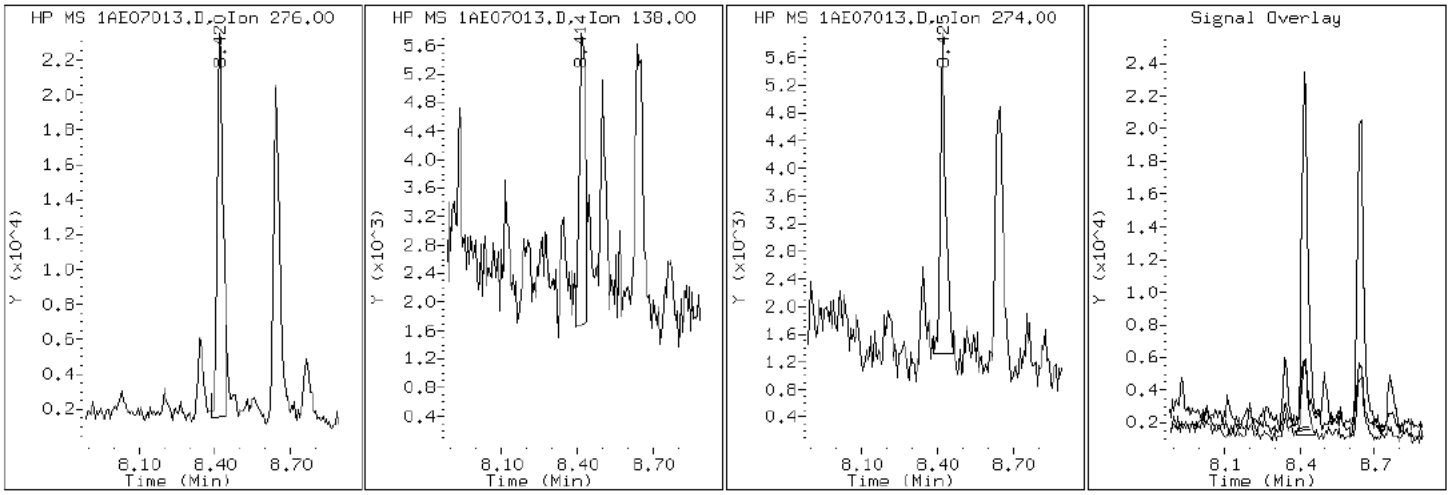
Data File: 1AE07013.D

Date: 07-MAY-2013 15:22

Client ID: CV1114A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-9-a Operator: SCC

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



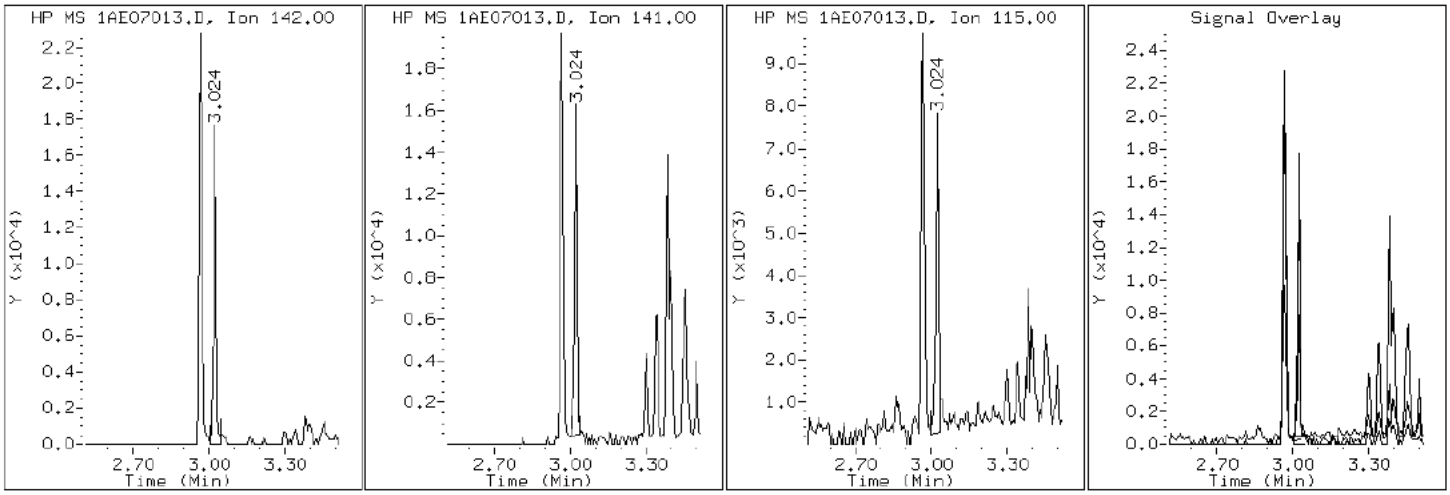
Data File: 1AE07013.D

Date: 07-MAY-2013 15:22

Client ID: CV1114A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-9-a Operator: SCC

4 1-Methylnaphthalene



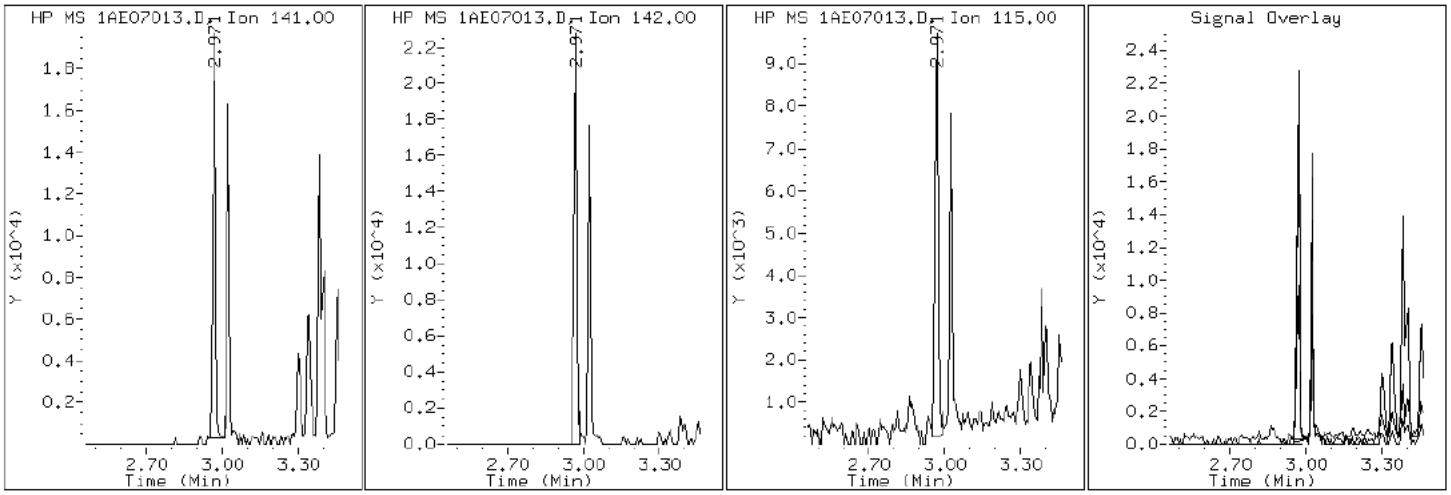
Data File: 1AE07013.D

Date: 07-MAY-2013 15:22

Client ID: CV1114A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-9-a Operator: SCC

3 2-Methylnaphthalene



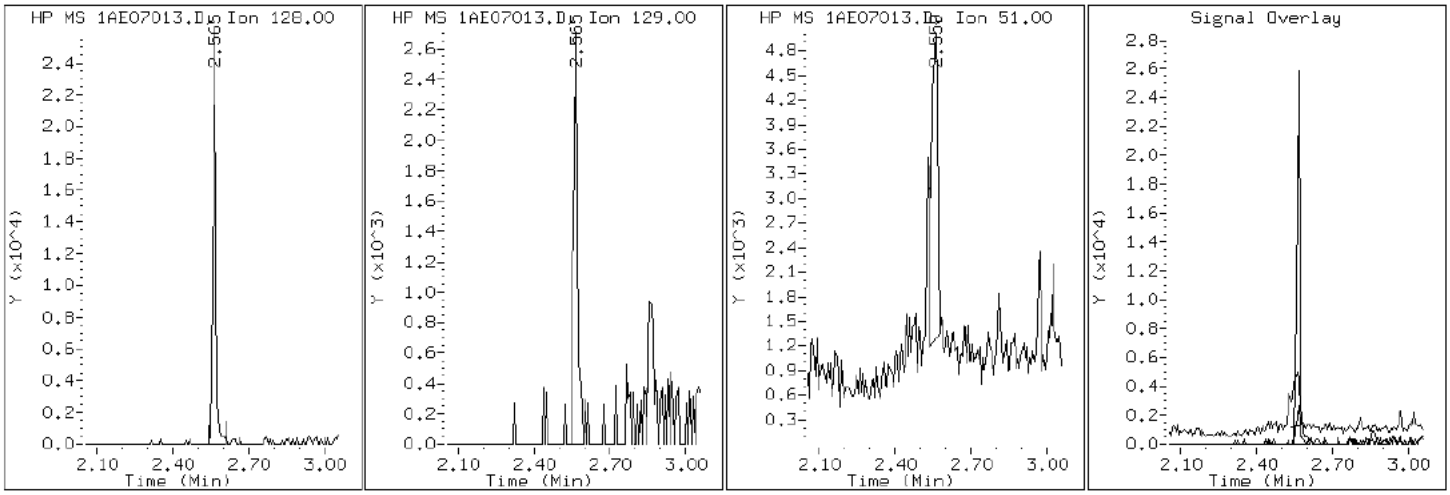
Data File: 1AE07013.D

Date: 07-MAY-2013 15:22

Client ID: CV1114A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-9-a Operator: SCC

2 Naphthalene



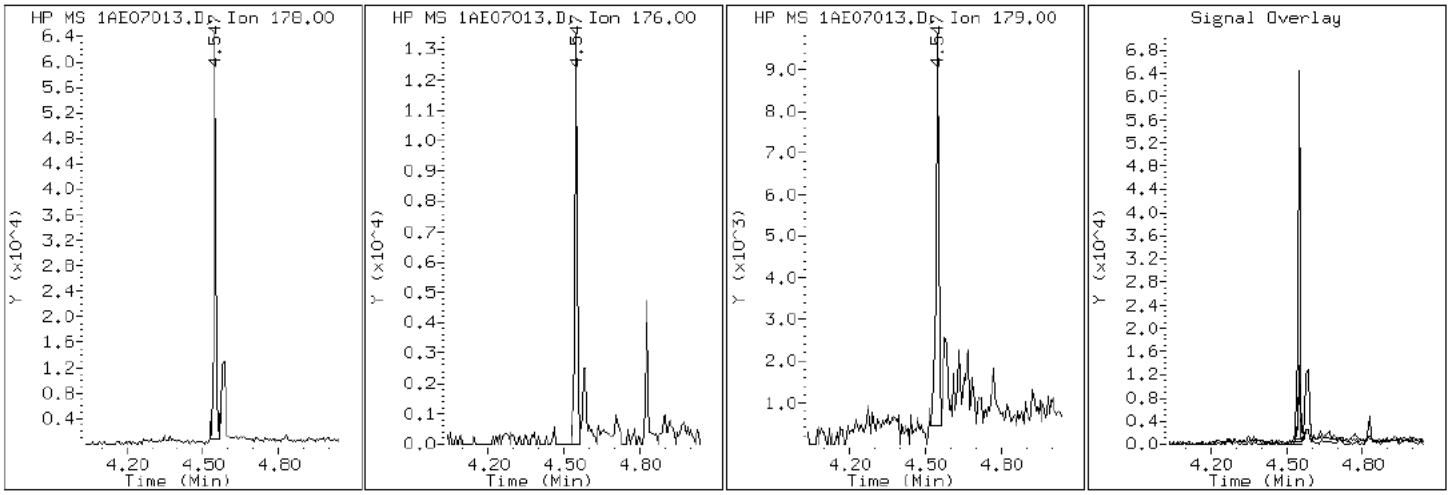
Data File: 1AE07013.D

Date: 07-MAY-2013 15:22

Client ID: CV1114A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-9-a Operator: SCC

11 Phenanthrene



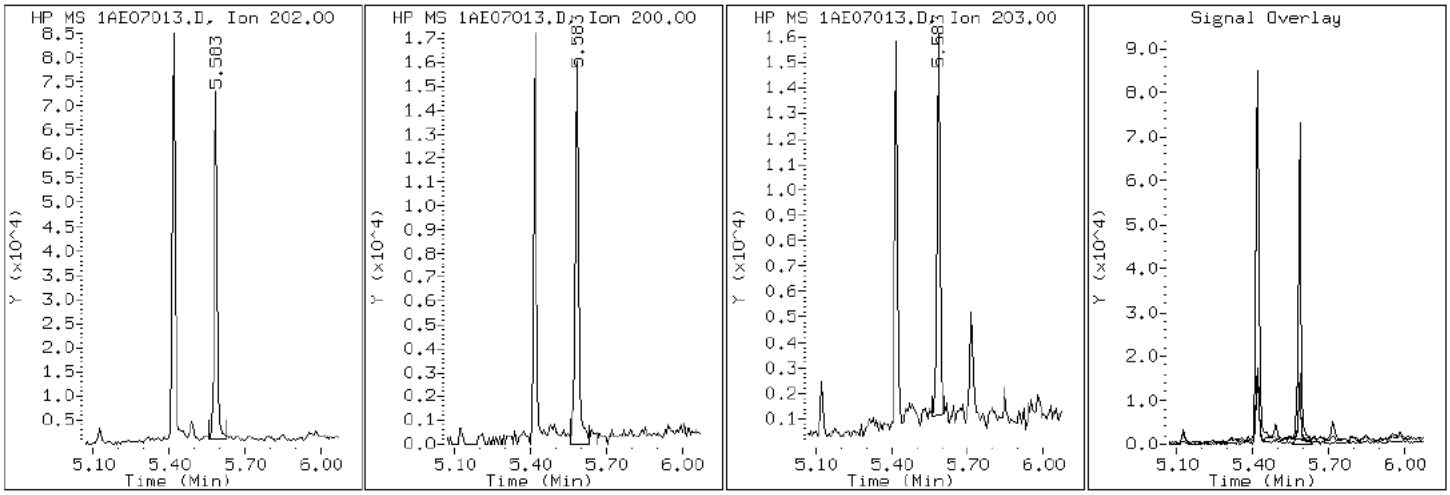
Data File: 1AE07013.D

Date: 07-MAY-2013 15:22

Client ID: CV1114A-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-9-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE07013.D
Inj. Date and Time: 07-MAY-2013 15:22
Instrument ID: BSMA5973.i
Client ID: CV1114A-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

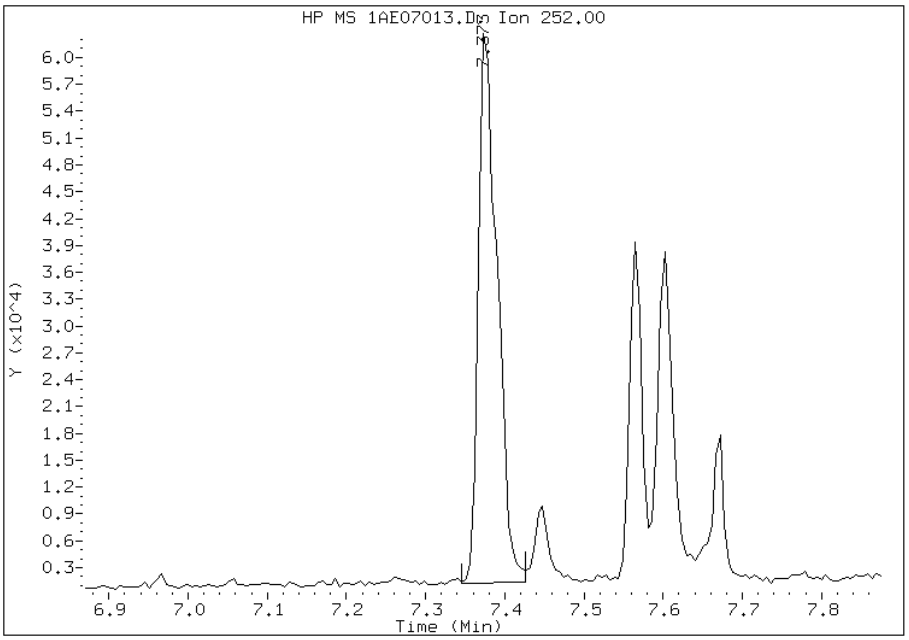
Processing Integration Results

RT: 7.37

Response: 100808

Amount: 3

Conc: 269



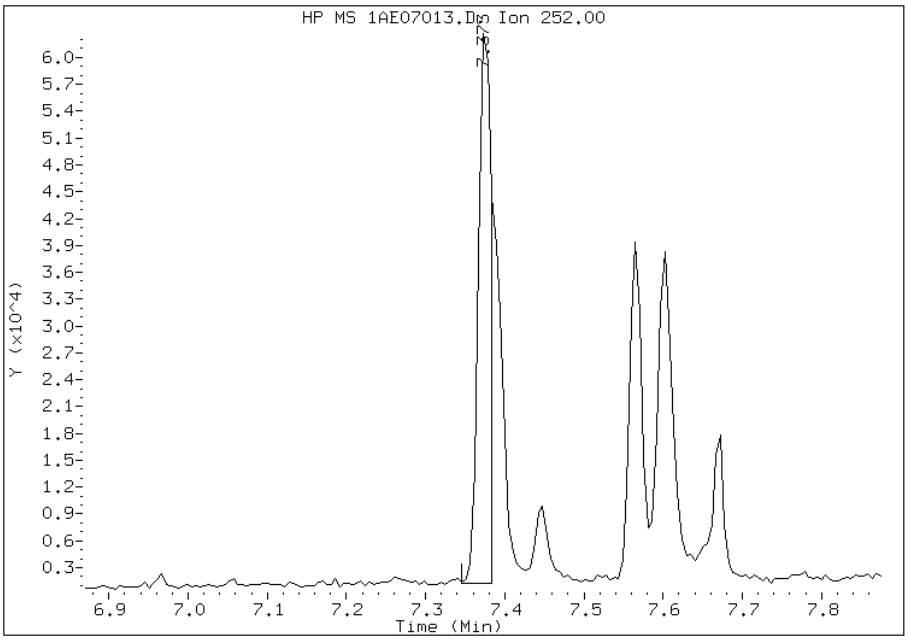
Manual Integration Results

RT: 7.37

Response: 68993

Amount: 2

Conc: 184



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:58
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE07013.D
Inj. Date and Time: 07-MAY-2013 15:22
Instrument ID: BSMA5973.i
Client ID: CV1114A-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

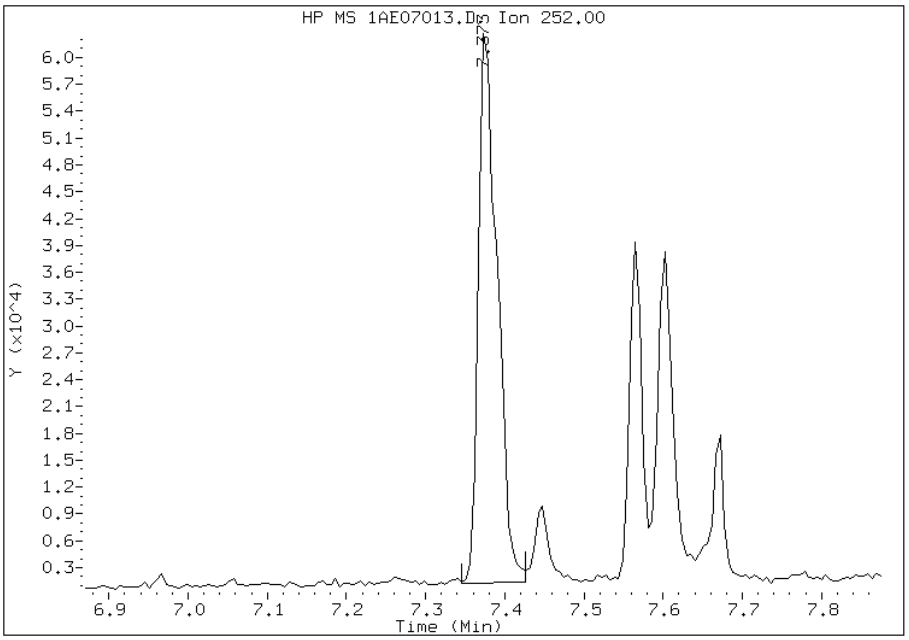
Processing Integration Results

RT: 7.37

Response: 100808

Amount: 3

Conc: 217



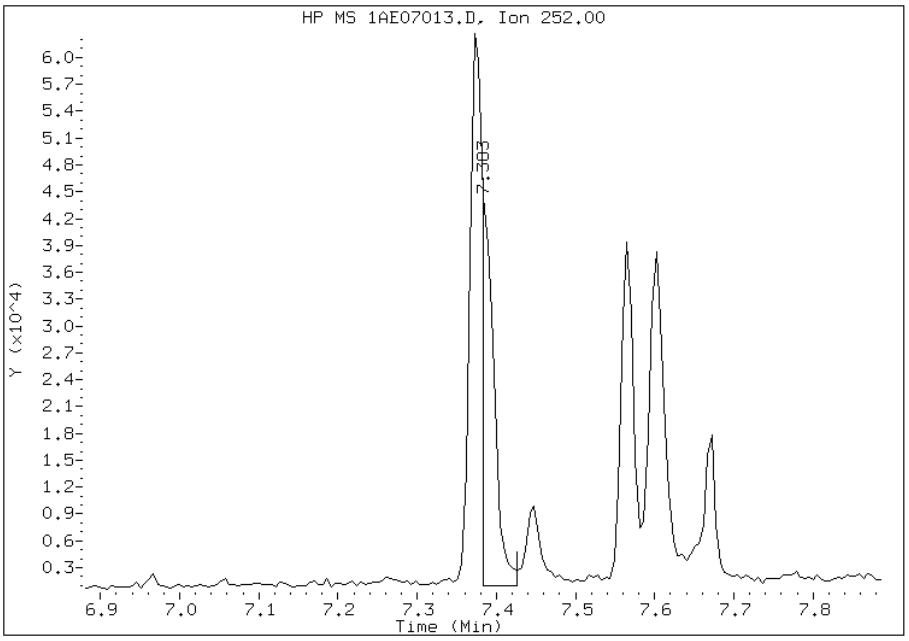
Manual Integration Results

RT: 7.38

Response: 46544

Amount: 1

Conc: 100



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:59
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE07013.D
Inj. Date and Time: 07-MAY-2013 15:22
Instrument ID: BSMA5973.i
Client ID: CV1114A-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

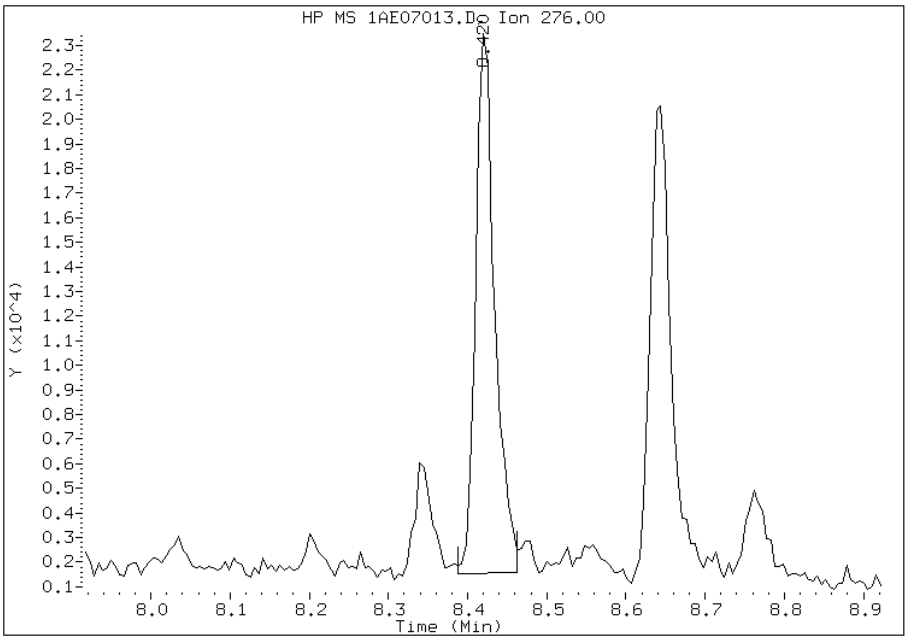
Processing Integration Results

RT: 8.42

Response: 36670

Amount: 1

Conc: 114



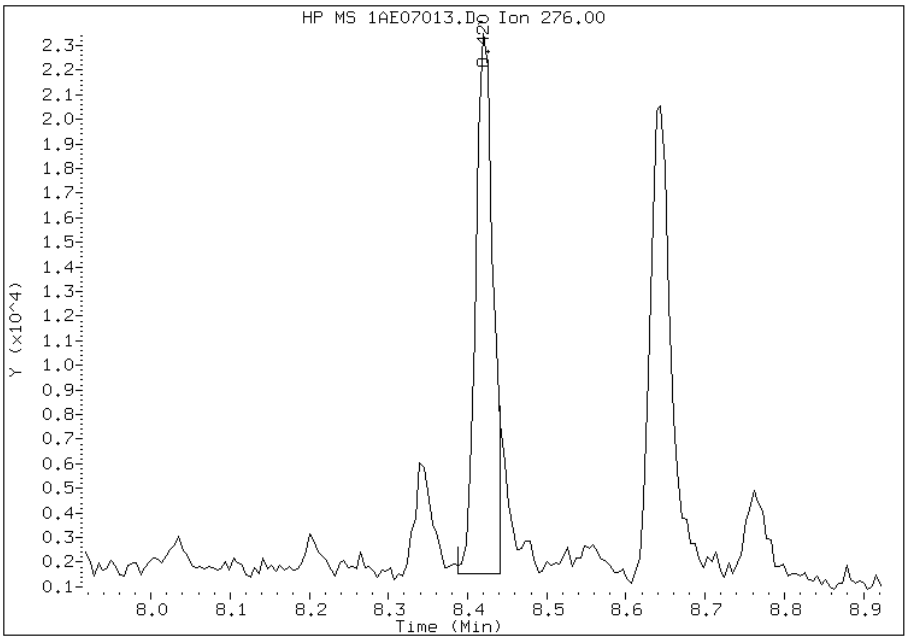
Manual Integration Results

RT: 8.42

Response: 33467

Amount: 1

Conc: 104



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:59
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: CV1114B-CS | Lab Sample ID: 680-89985-10

Matrix: Solid | Lab File ID: 1AE07014.D

Analysis Method: 8270C LL | Date Collected: 05/01/2013 13:35

Extract. Method: 3546 | Date Extracted: 05/06/2013 08:14

Sample wt/vol: 14.90(g) | Date Analyzed: 05/07/2013 15:37

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

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

% Moisture: 18.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137194 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	42	J	49	6.2
120-12-7	Anthracene	69		10	5.2
56-55-3	Benzo[a]anthracene	200		9.9	4.8
50-32-8	Benzo[a]pyrene	180		13	6.4
205-99-2	Benzo[b]fluoranthene	250		15	7.5
191-24-2	Benzo[g,h,i]perylene	120		25	5.4
207-08-9	Benzo[k]fluoranthene	130		9.9	4.4
218-01-9	Chrysene	220		11	5.6
53-70-3	Dibenz(a,h)anthracene	43		25	5.1
206-44-0	Fluoranthene	370		25	4.9
86-73-7	Fluorene	13	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	120		25	8.8
90-12-0	1-Methylnaphthalene	57		49	5.4
91-57-6	2-Methylnaphthalene	71		49	8.8
91-20-3	Naphthalene	50		49	5.4
85-01-8	Phenanthrene	230		9.9	4.8
129-00-0	Pyrene	260		25	4.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\1AE07014.D
Lab Smp Id: 680-89985-A-10-A Client Smp ID: CV1114B-CS
Inj Date : 07-MAY-2013 15:37
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89985-a-10-a
Misc Info : 680-89985-A-10-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\a-bFASTPAHi-m.m
Meth Date : 07-May-2013 13:04 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 14
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	14.900	Weight Extracted
M	18.000	% 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	2.553	2.544	(1.000)	1278898	40.0000	
*	6 Acenaphthene-d10	164	3.579	3.575	(1.000)	690373	40.0000	
*	10 Phenanthrene-d10	188	4.535	4.526	(1.000)	963234	40.0000	
$	14 o-Terphenyl	230	4.829	4.820	(1.065)	84021	6.09467	498.8272
*	18 Chrysene-d12	240	6.565	6.545	(1.000)	968916	40.0000	
*	23 Perylene-d12	264	7.655	7.630	(1.000)	1148769	40.0000	
	2 Naphthalene	128	2.564	2.555	(1.004)	18226	0.60517	49.5313
	3 2-Methylnaphthalene	141	2.970	2.961	(1.163)	13195	0.86209	70.5587
	4 1-Methylnaphthalene	142	3.023	3.014	(1.184)	12791	0.69722	57.0647
	5 Acenaphthylene	152	3.494	3.484	(0.976)	16557	0.51039	41.7735
	9 Fluorene	166	3.910	3.906	(1.093)	3411	0.16066	13.1498
	11 Phenanthrene	178	4.546	4.537	(1.002)	65992	2.76541	226.3392
	12 Anthracene	178	4.583	4.574	(1.011)	21443	0.84355	69.0415
	13 Carbazole	167	4.722	4.707	(1.041)	7873	0.34447	28.1935

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	5.417	5.402	(1.194)	121970	4.44292	363.6370
16 Pyrene	202	5.582	5.568	(0.850)	99910	3.20793	262.5580
17 Benzo(a)anthracene	228	6.555	6.529	(0.998)	67360	2.47368	202.4617
19 Chrysene	228	6.576	6.561	(1.002)	80691	2.63365	215.5545
20 Benzo(b)fluoranthene	252	7.372	7.352	(0.963)	92040	3.03123	248.0955(M)
21 Benzo(k)fluoranthene	252	7.383	7.373	(0.964)	60304	1.60089	131.0272(M)
22 Benzo(a)pyrene	252	7.602	7.576	(0.993)	67928	2.17833	178.2883
24 Indeno(1,2,3-cd)pyrene	276	8.419	8.388	(1.100)	39209	1.50089	122.8422(M)
25 Dibenzo(a,h)anthracene	278	8.440	8.410	(1.103)	13950	0.52094	42.6370
26 Benzo(g,h,i)perylene	276	8.638	8.602	(1.128)	40996	1.45934	119.4415

QC Flag Legend

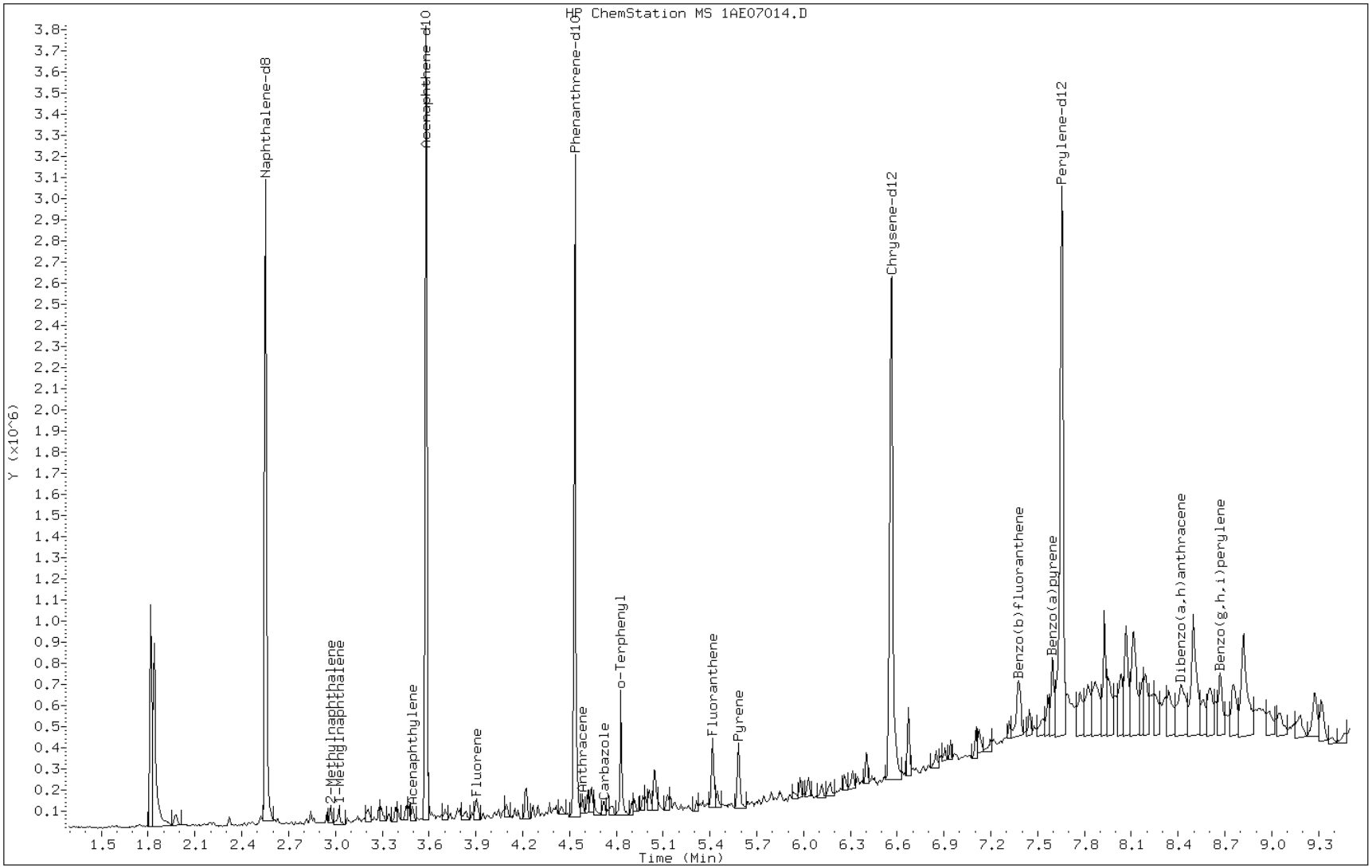
M - Compound response manually integrated.

Data File: 1AE07014.D

Date: 07-MAY-2013 15:37

Client ID: CV1114B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-10-a Operator: SCC



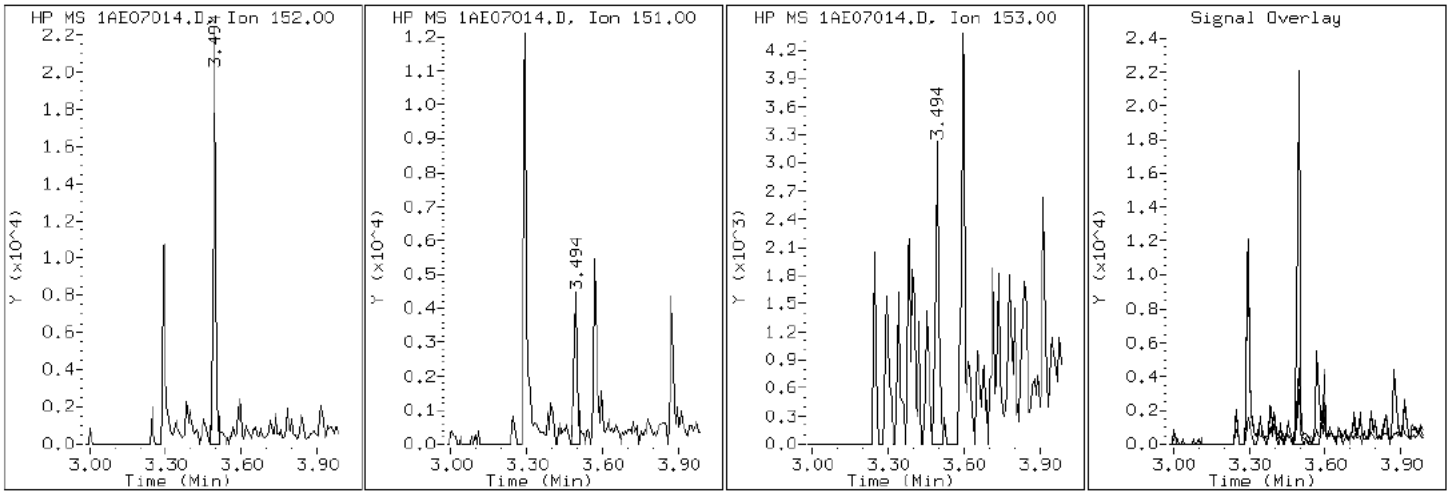
Data File: 1AE07014.D

Date: 07-MAY-2013 15:37

Client ID: CV1114B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-10-a Operator: SCC

5 Acenaphthylene



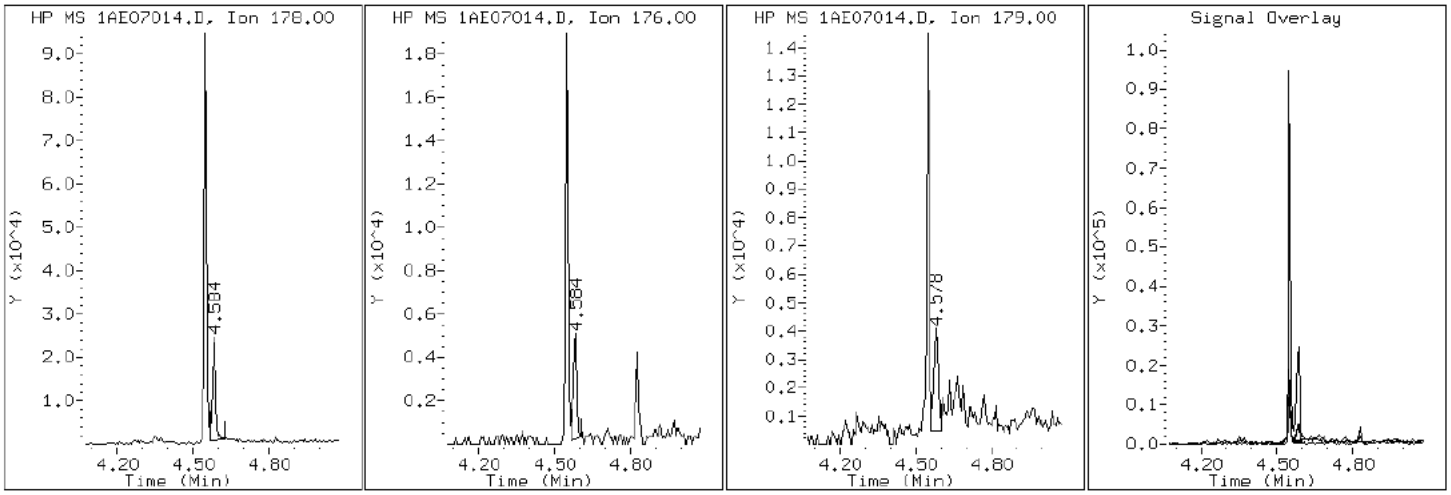
Data File: 1AE07014.D

Date: 07-MAY-2013 15:37

Client ID: CV1114B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-10-a Operator: SCC

12 Anthracene



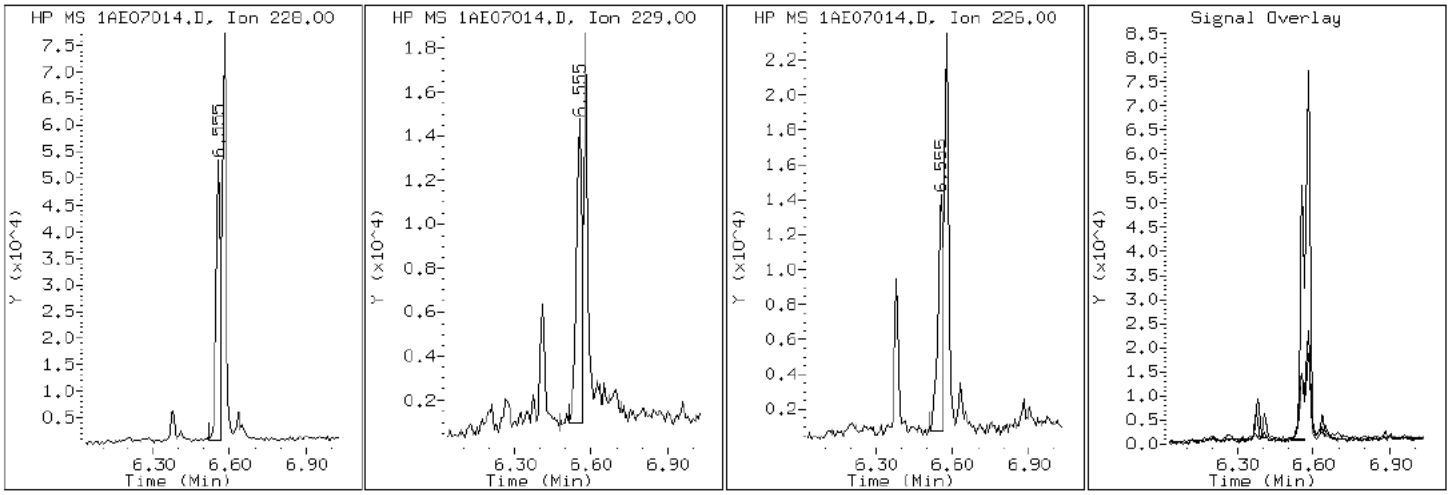
Data File: 1AE07014.D

Date: 07-MAY-2013 15:37

Client ID: CV1114B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-10-a Operator: SCC

17 Benzo(a)anthracene



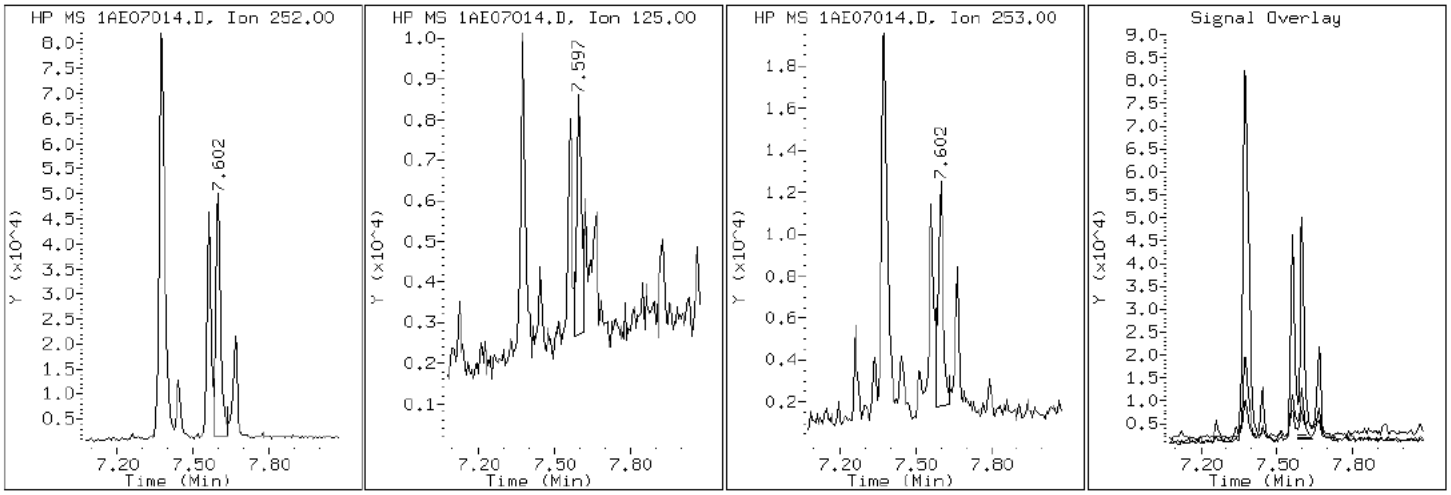
Data File: 1AE07014.D

Date: 07-MAY-2013 15:37

Client ID: CV1114B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-10-a Operator: SCC

22 Benzo(a)pyrene



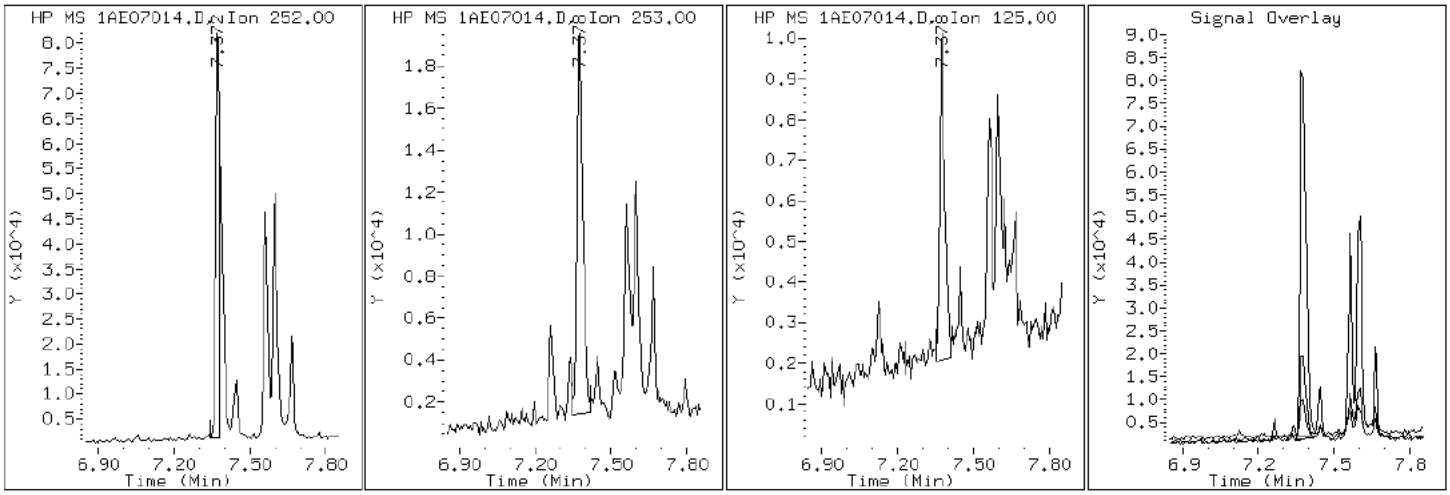
Data File: 1AE07014.D

Date: 07-MAY-2013 15:37

Client ID: CV1114B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-10-a Operator: SCC

20 Benzo(b)fluoranthene



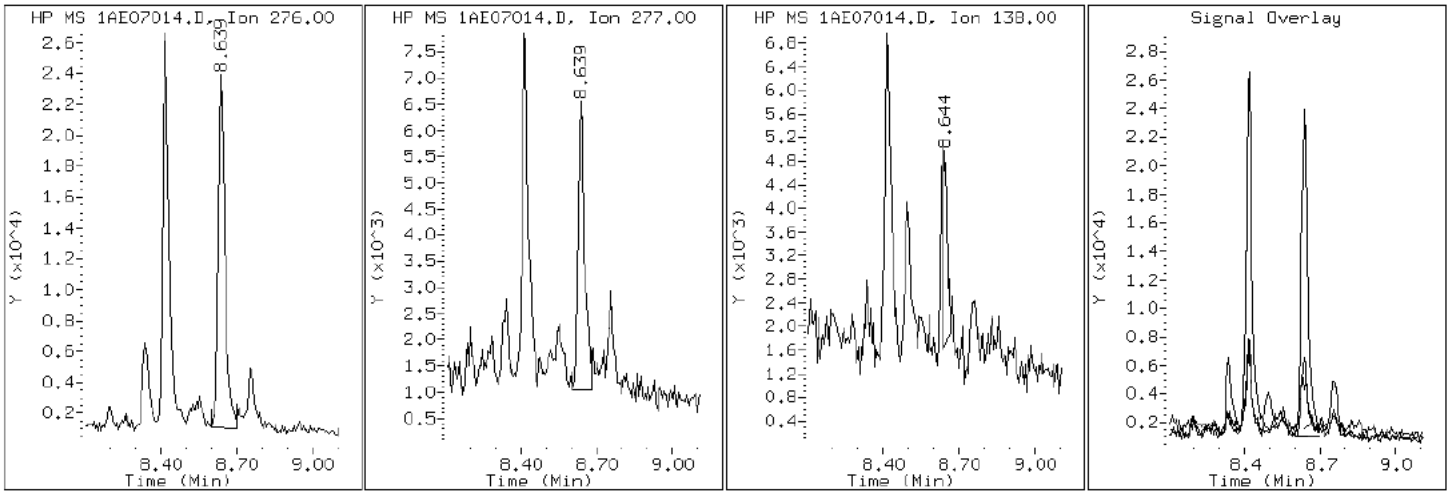
Data File: 1AE07014.D

Date: 07-MAY-2013 15:37

Client ID: CV1114B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-10-a Operator: SCC

26 Benzo(g,h,i)perylene



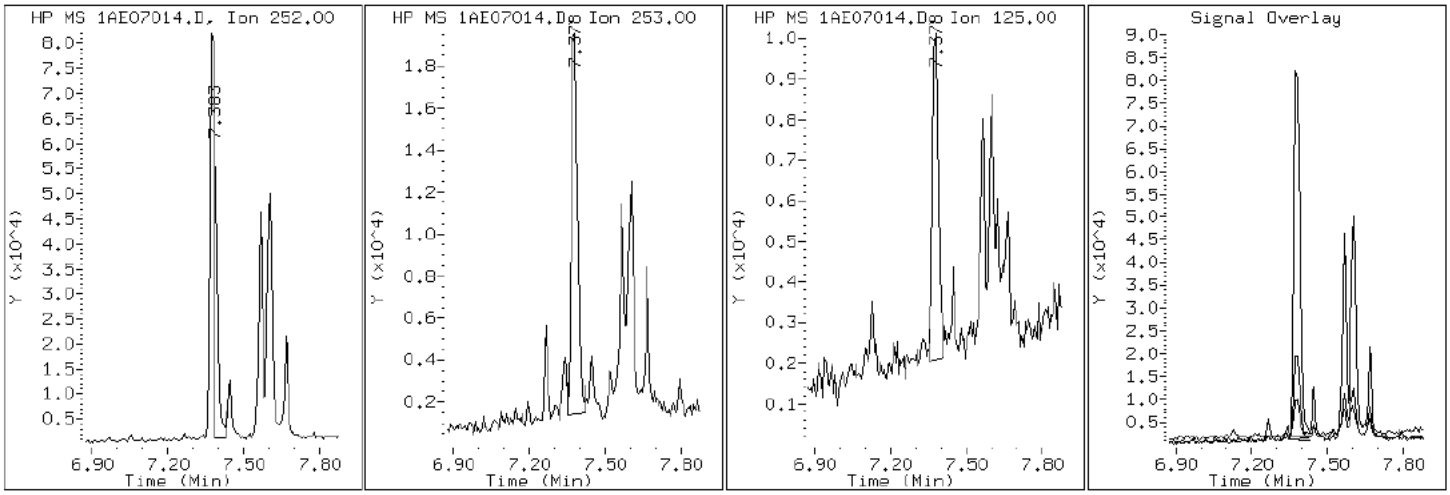
Data File: 1AE07014.D

Date: 07-MAY-2013 15:37

Client ID: CV1114B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-10-a Operator: SCC

21 Benzo(k)fluoranthene



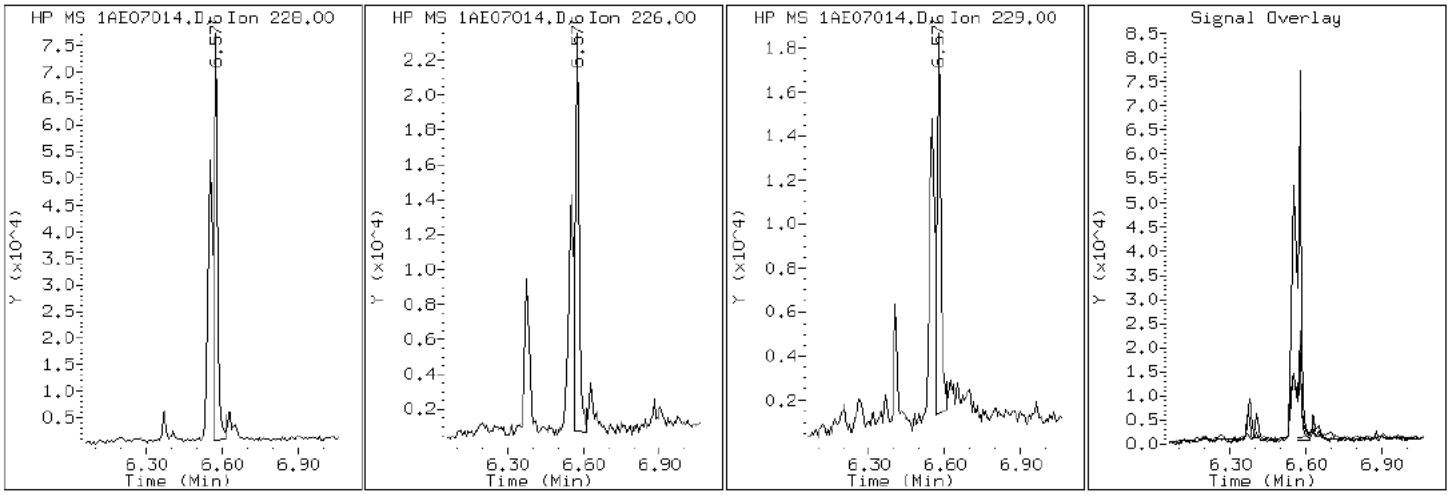
Data File: 1AE07014.D

Date: 07-MAY-2013 15:37

Client ID: CV1114B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-10-a Operator: SCC

19 Chrysene



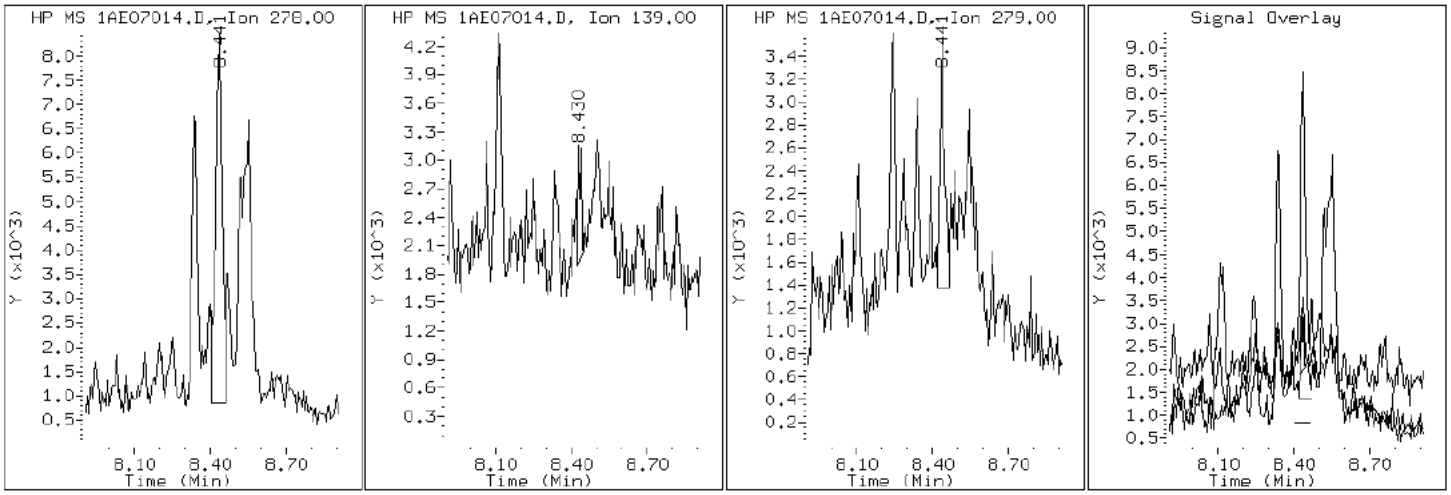
Data File: 1AE07014.D

Date: 07-MAY-2013 15:37

Client ID: CV1114B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-10-a Operator: SCC

25 Dibenzo(a,h)anthracene



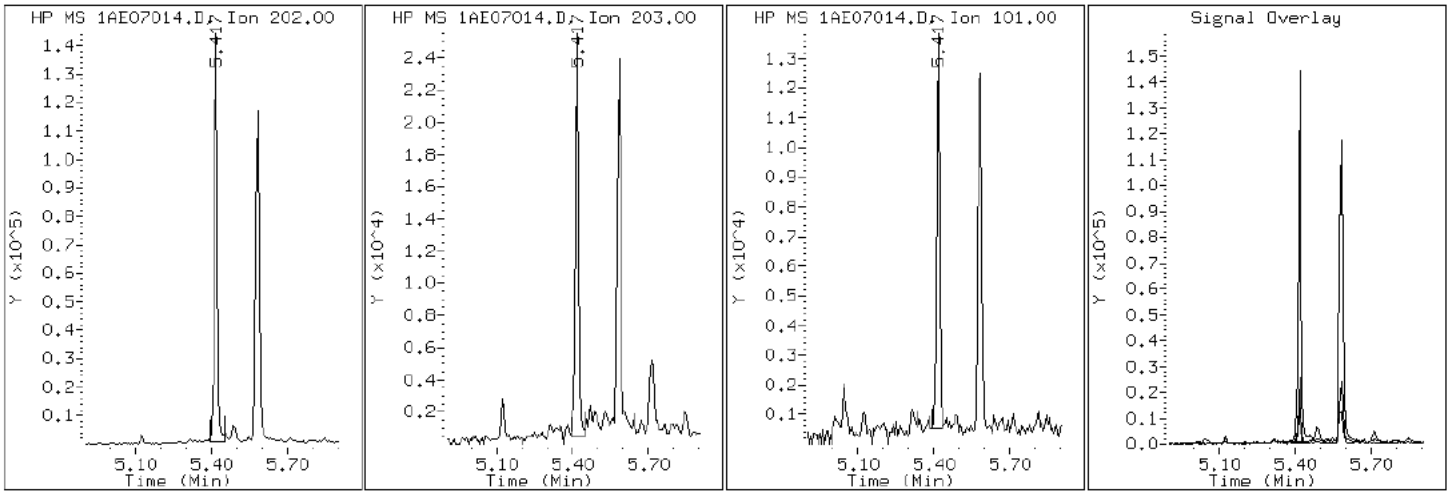
Data File: 1AE07014.D

Date: 07-MAY-2013 15:37

Client ID: CV1114B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-10-a Operator: SCC

15 Fluoranthene



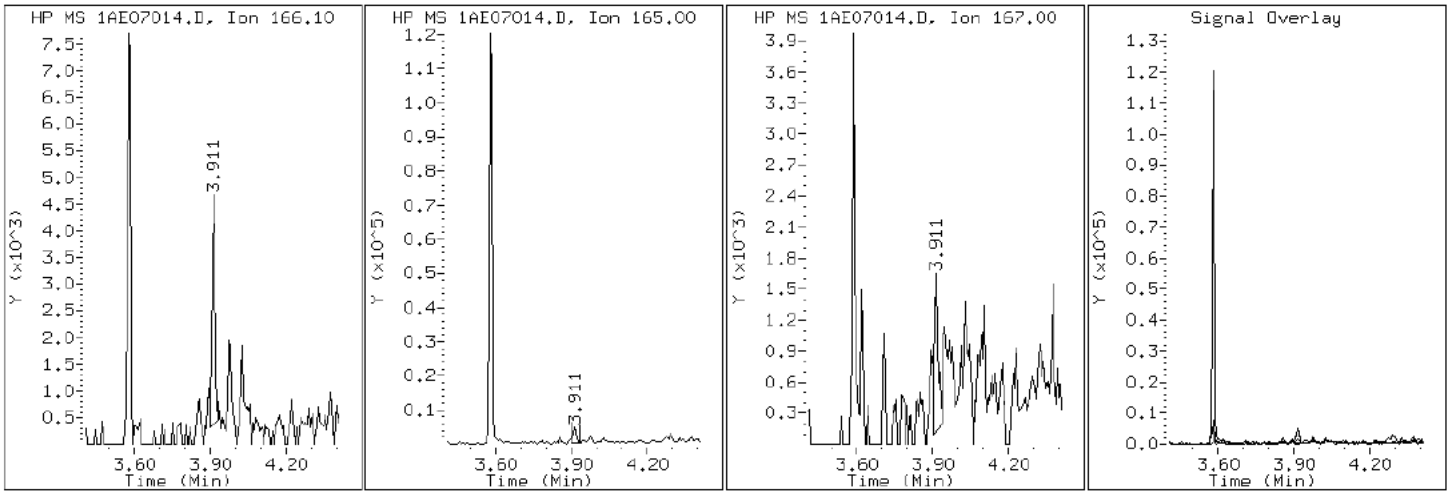
Data File: 1AE07014.D

Date: 07-MAY-2013 15:37

Client ID: CV1114B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-10-a Operator: SCC

9 Fluorene



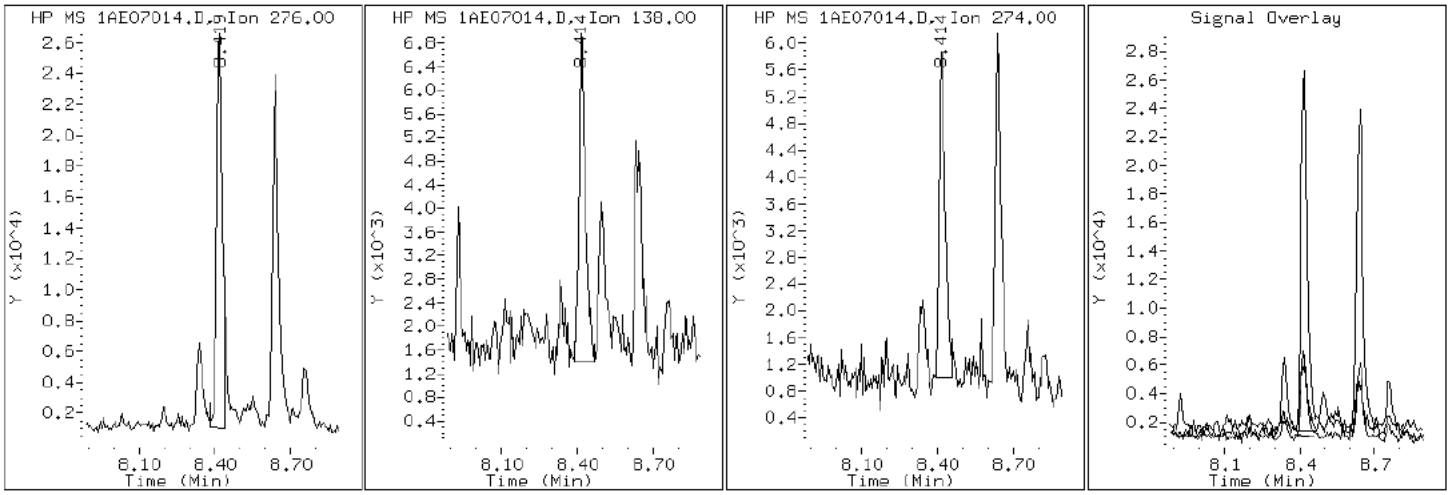
Data File: 1AE07014.D

Date: 07-MAY-2013 15:37

Client ID: CV1114B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-10-a Operator: SCC

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



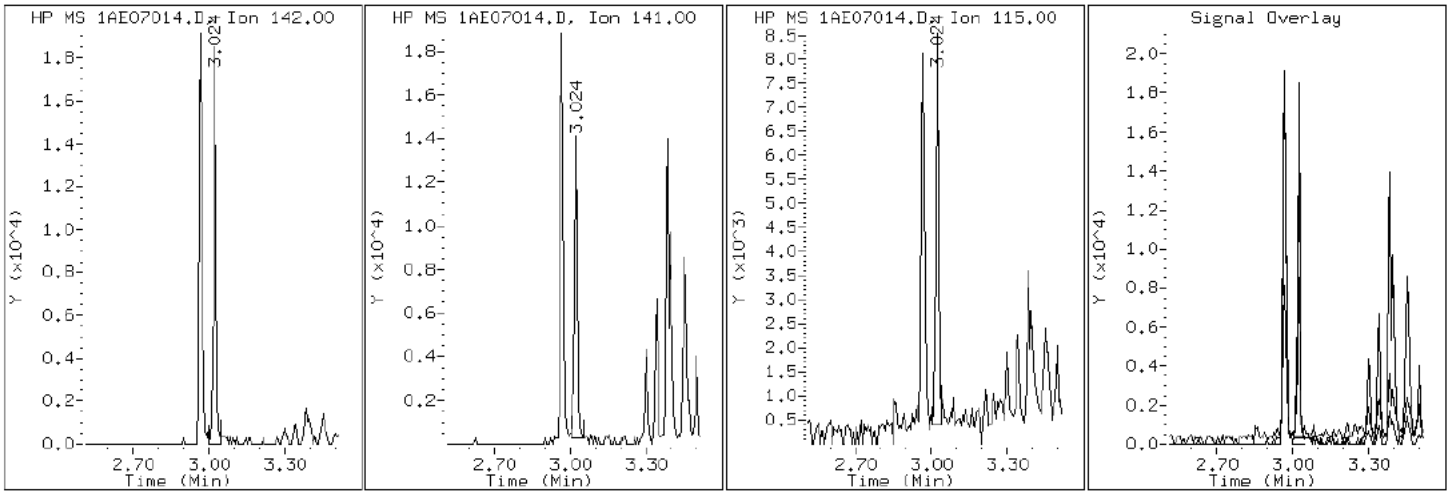
Data File: 1AE07014.D

Date: 07-MAY-2013 15:37

Client ID: CV1114B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-10-a Operator: SCC

4 1-Methylnaphthalene



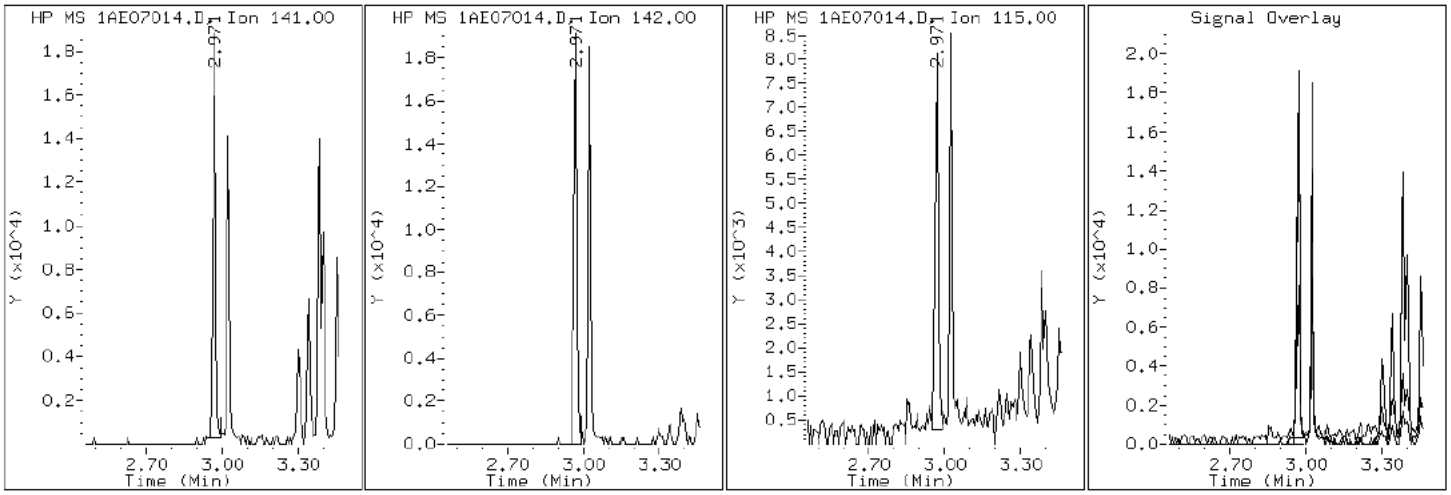
Data File: 1AE07014.D

Date: 07-MAY-2013 15:37

Client ID: CV1114B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-10-a Operator: SCC

3 2-Methylnaphthalene



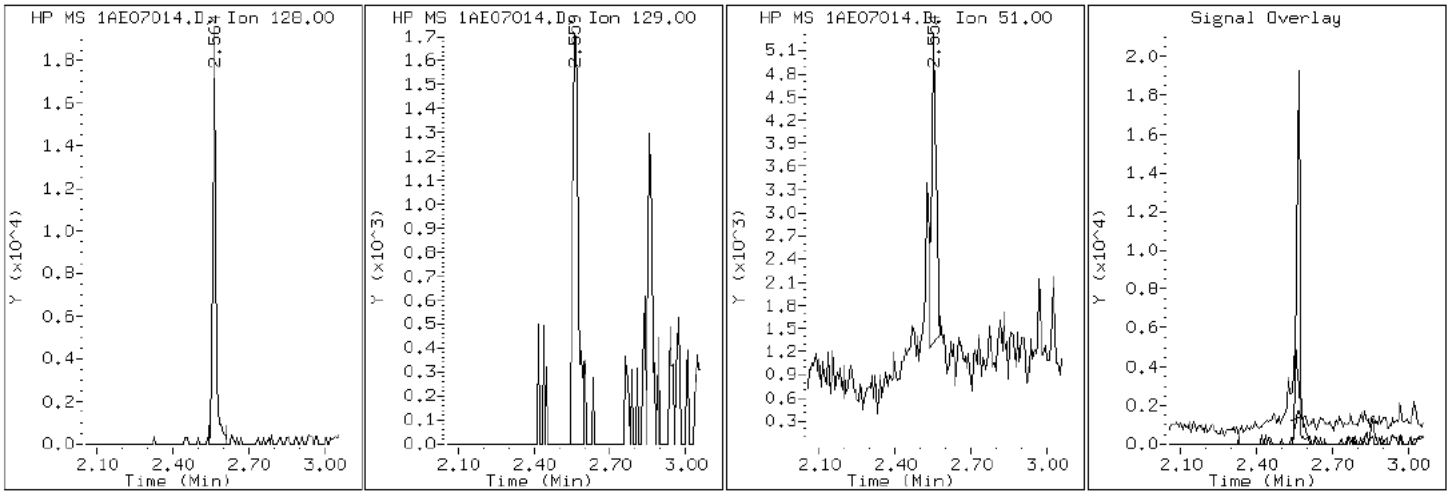
Data File: 1AE07014.D

Date: 07-MAY-2013 15:37

Client ID: CV1114B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-10-a Operator: SCC

2 Naphthalene



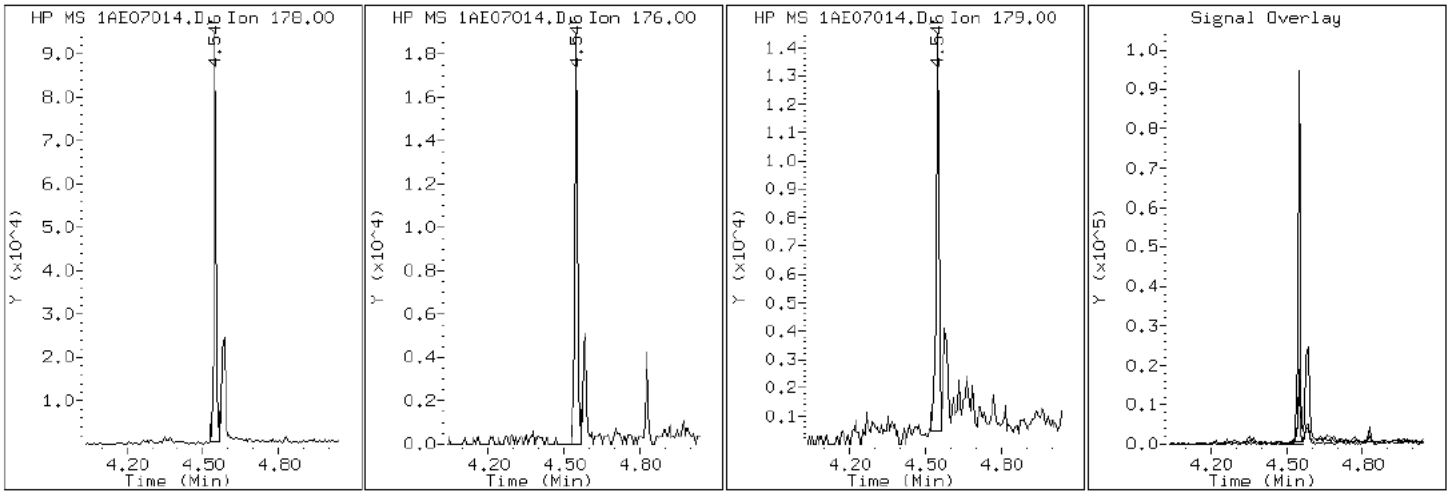
Data File: 1AE07014.D

Date: 07-MAY-2013 15:37

Client ID: CV1114B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-10-a Operator: SCC

11 Phenanthrene



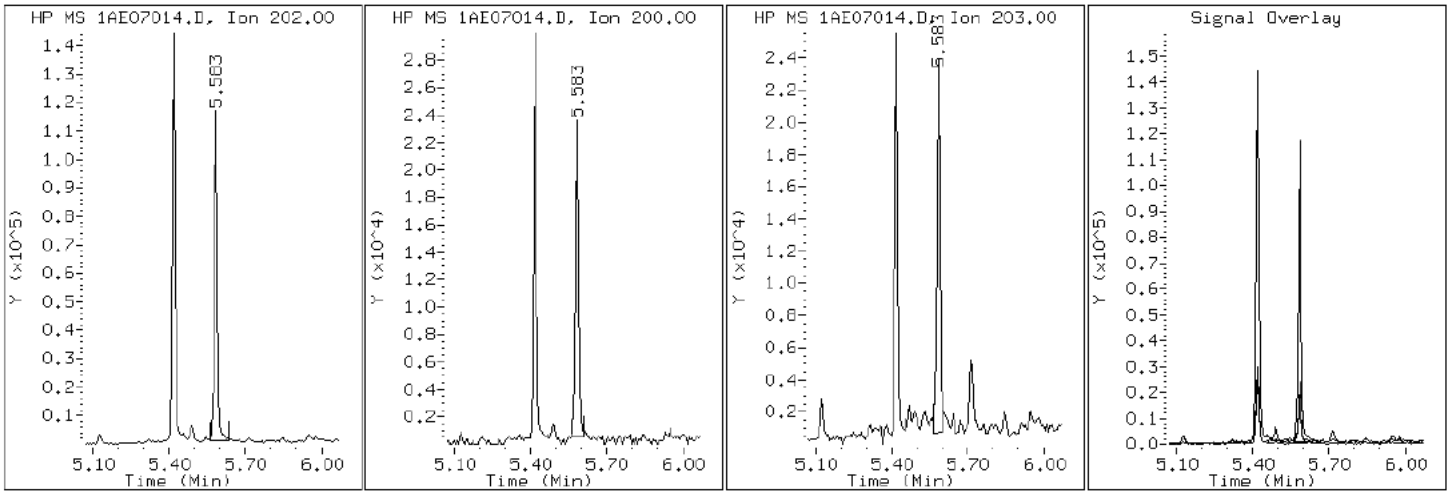
Data File: 1AE07014.D

Date: 07-MAY-2013 15:37

Client ID: CV1114B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-10-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE07014.D
Inj. Date and Time: 07-MAY-2013 15:37
Instrument ID: BSMA5973.i
Client ID: CV1114B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

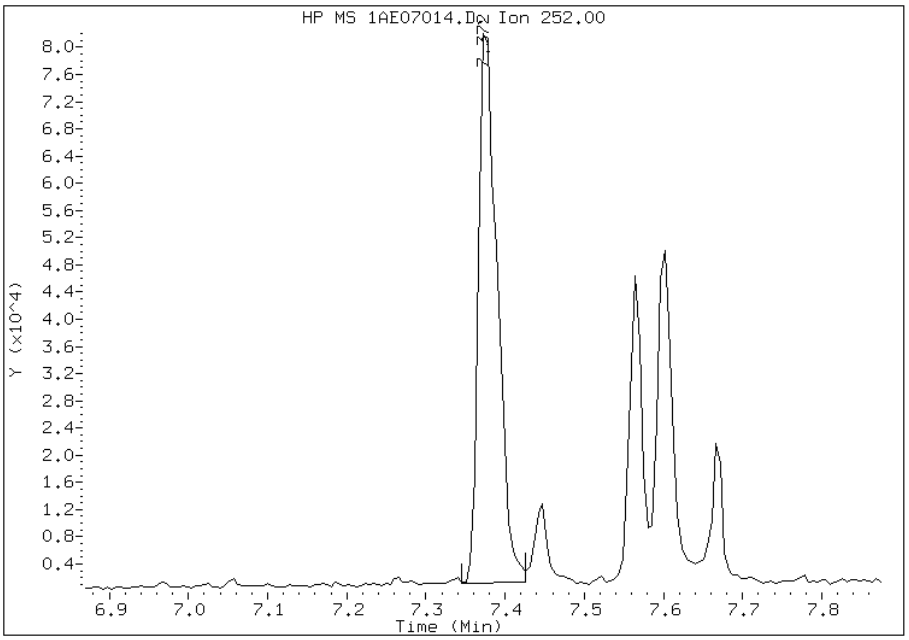
Processing Integration Results

RT: 7.37

Response: 132928

Amount: 4

Conc: 358



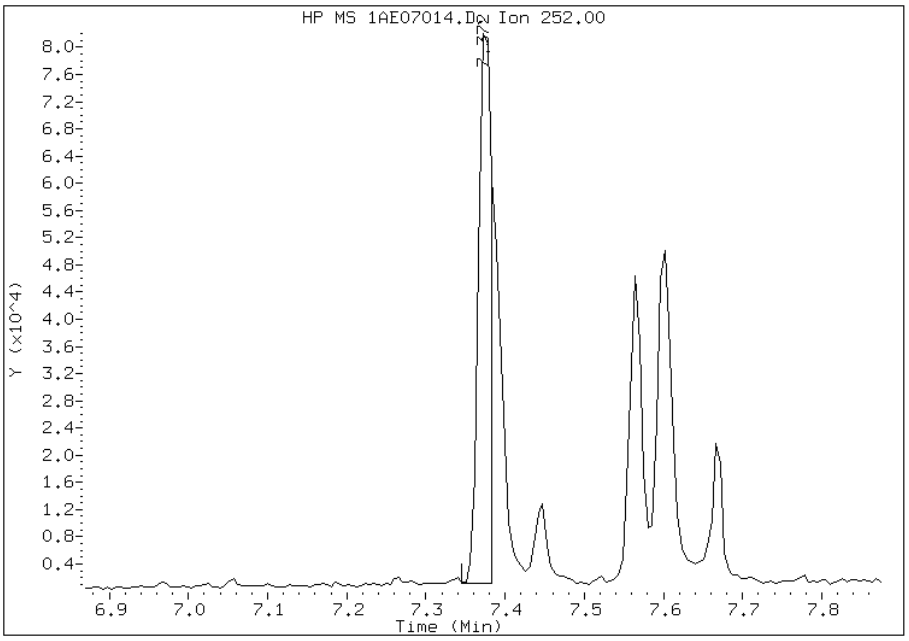
Manual Integration Results

RT: 7.37

Response: 92040

Amount: 3

Conc: 248



Manually Integrated By: cantins
Modification Date: 09-May-2013 12:00
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE07014.D
Inj. Date and Time: 07-MAY-2013 15:37
Instrument ID: BSMA5973.i
Client ID: CV1114B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

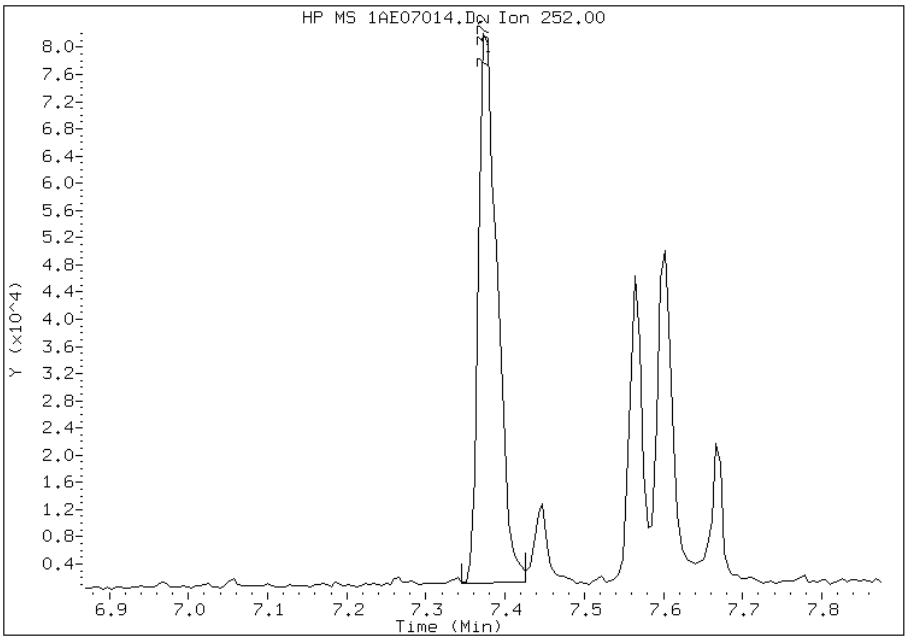
Processing Integration Results

RT: 7.37

Response: 132928

Amount: 4

Conc: 289



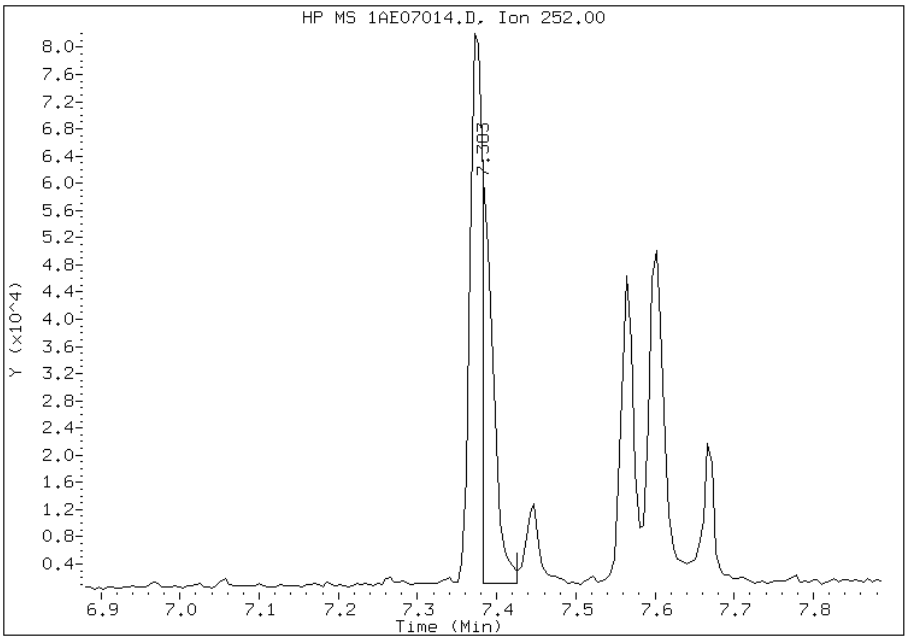
Manual Integration Results

RT: 7.38

Response: 60304

Amount: 2

Conc: 131



Manually Integrated By: cantins
Modification Date: 09-May-2013 12:00
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE07014.D
Inj. Date and Time: 07-MAY-2013 15:37
Instrument ID: BSMA5973.i
Client ID: CV1114B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

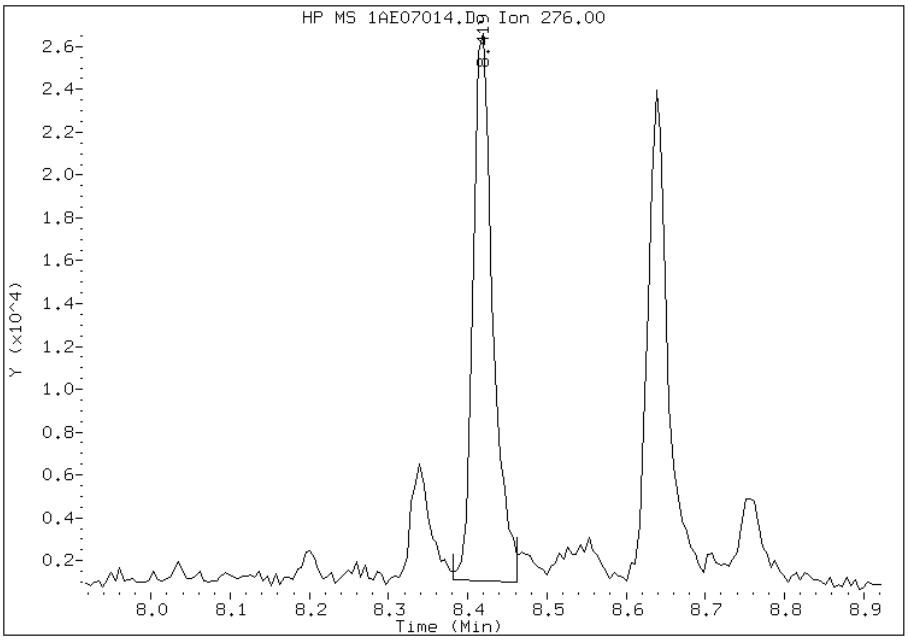
Processing Integration Results

RT: 8.42

Response: 44302

Amount: 2

Conc: 139



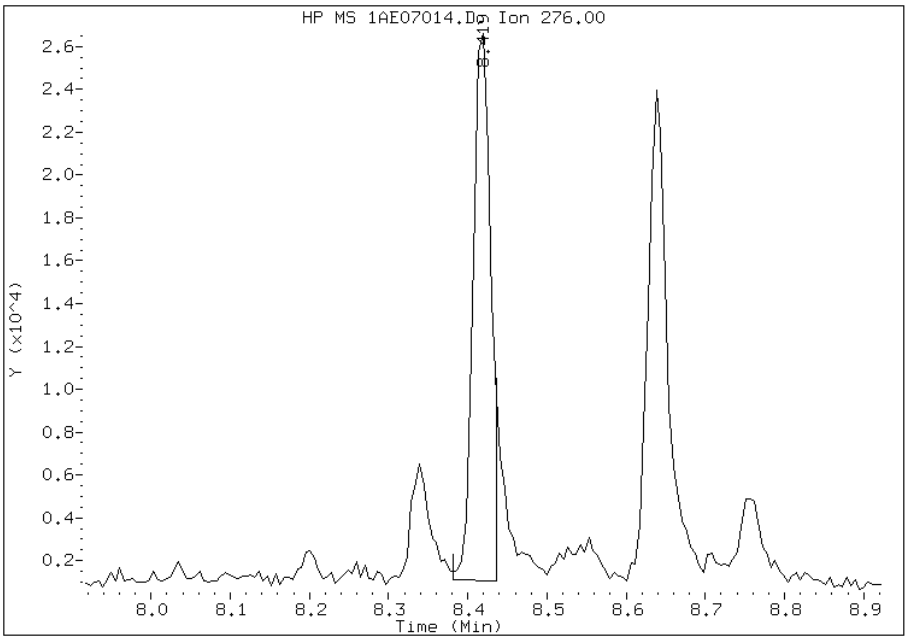
Manual Integration Results

RT: 8.42

Response: 39209

Amount: 2

Conc: 123



Manually Integrated By: cantins
Modification Date: 09-May-2013 12:01
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: CV1166A-CS | Lab Sample ID: 680-89985-11

Matrix: Solid | Lab File ID: 1AE07015.D

Analysis Method: 8270C LL | Date Collected: 05/01/2013 12:45

Extract. Method: 3546 | Date Extracted: 05/06/2013 08:14

Sample wt/vol: 14.97(g) | Date Analyzed: 05/07/2013 15:52

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

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

% Moisture: 22.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137194 | 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	51	6.4
120-12-7	Anthracene	27		11	5.4
56-55-3	Benzo[a]anthracene	97		10	5.0
50-32-8	Benzo[a]pyrene	68		13	6.7
205-99-2	Benzo[b]fluoranthene	110		16	7.9
191-24-2	Benzo[g,h,i]perylene	49		26	5.7
207-08-9	Benzo[k]fluoranthene	52		10	4.6
218-01-9	Chrysene	98		12	5.8
53-70-3	Dibenz(a,h)anthracene	13	J	26	5.3
206-44-0	Fluoranthene	130		26	5.1
86-73-7	Fluorene	14	J	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	44		26	9.1
90-12-0	1-Methylnaphthalene	41	J	51	5.7
91-57-6	2-Methylnaphthalene	57		51	9.1
91-20-3	Naphthalene	54		51	5.7
85-01-8	Phenanthrene	100		10	5.0
129-00-0	Pyrene	91		26	4.8

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\1A050713.b\1AE07015.D
Lab Smp Id: 680-89985-A-11-A Client Smp ID: CV1166A-CS
Inj Date : 07-MAY-2013 15:52
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89985-a-11-a
Misc Info : 680-89985-A-11-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\a-bFASTPAHi-m.m
Meth Date : 07-May-2013 13:04 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 15
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	22.000	% 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	2.550	2.544	(1.000)	1220695	40.0000	
* 6 Acenaphthene-d10	164	3.582	3.575	(1.000)	639977	40.0000	
* 10 Phenanthrene-d10	188	4.538	4.526	(1.000)	932510	40.0000	
$ 14 o-Terphenyl	230	4.826	4.820	(1.064)	76170	5.70722	488.7741
* 18 Chrysene-d12	240	6.562	6.545	(1.000)	998308	40.0000	
* 23 Perylene-d12	264	7.658	7.630	(1.000)	1122974	40.0000	
2 Naphthalene	128	2.561	2.555	(1.004)	17929	0.62370	53.4142
3 2-Methylnaphthalene	141	2.967	2.961	(1.163)	9639	0.65978	56.5048
4 1-Methylnaphthalene	142	3.026	3.014	(1.186)	8402	0.47982	41.0921
5 Acenaphthylene	152	3.491	3.484	(0.975)	5105	0.16976	14.5384
9 Fluorene	166	3.913	3.906	(1.092)	3209	0.16305	13.9640
11 Phenanthrene	178	4.548	4.537	(1.002)	27267	1.18028	101.0806
12 Anthracene	178	4.580	4.574	(1.009)	7695	0.31269	26.7790
13 Carbazole	167	4.725	4.707	(1.041)	3719	0.16808	14.3945

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	5.414	5.402	(1.193)	39474	1.48527	127.2003
16 Pyrene	202	5.579	5.568	(0.850)	34077	1.06194	90.9458
17 Benzo(a)anthracene	228	6.557	6.529	(0.999)	31632	1.12743	96.5545
19 Chrysene	228	6.578	6.561	(1.002)	36108	1.14382	97.9582
20 Benzo(b)fluoranthene	252	7.374	7.352	(0.963)	39094	1.31709	112.7974(M)
21 Benzo(k)fluoranthene	252	7.385	7.373	(0.964)	22149	0.60150	51.5129(M)
22 Benzo(a)pyrene	252	7.604	7.576	(0.993)	24235	0.79502	68.0869
24 Indeno(1,2,3-cd)pyrene	276	8.421	8.388	(1.100)	13094	0.51274	43.9117(M)
25 Dibenzo(a,h)anthracene	278	8.443	8.410	(1.103)	4014	0.15334	13.1321
26 Benzo(g,h,i)perylene	276	8.646	8.602	(1.129)	15563	0.56672	48.5349

QC Flag Legend

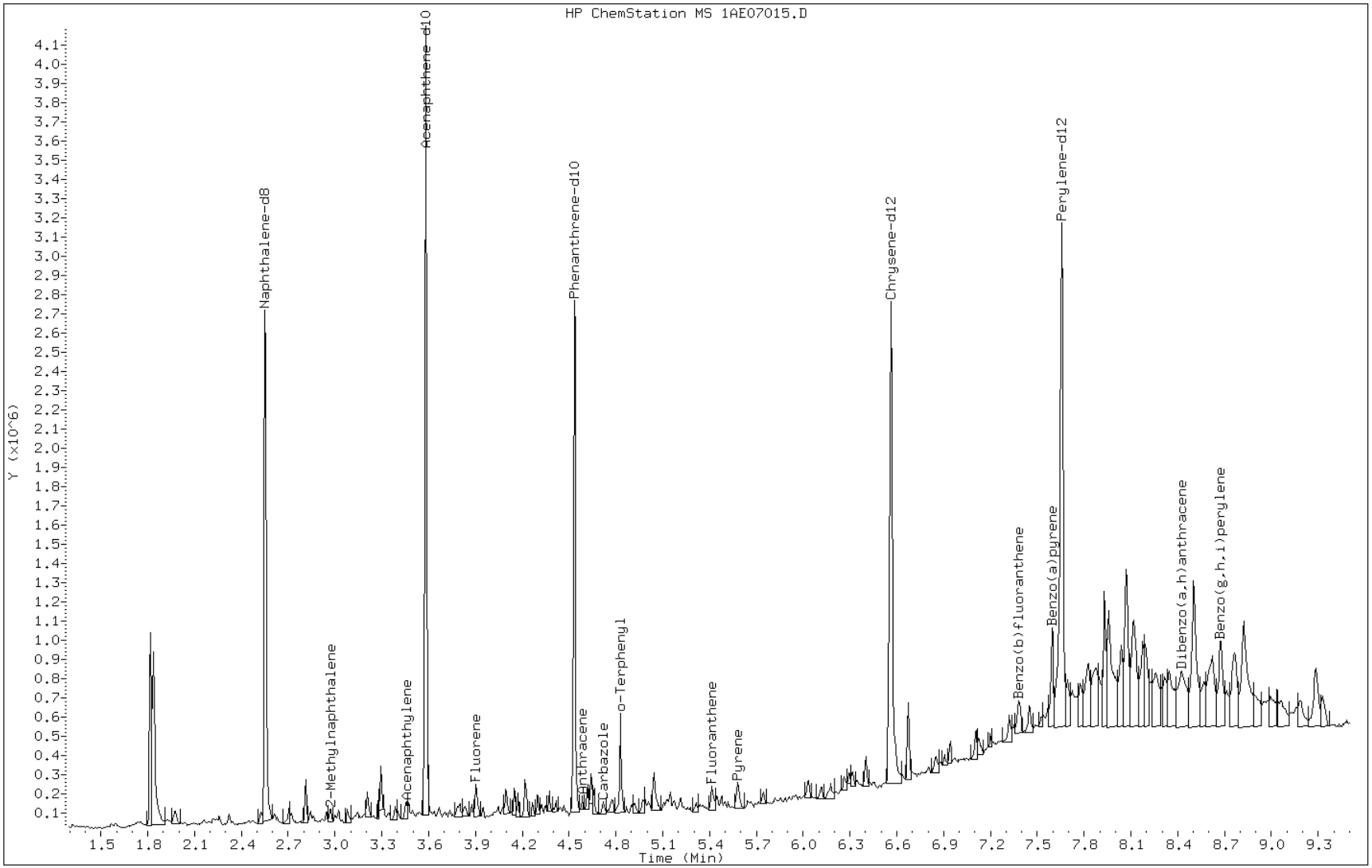
M - Compound response manually integrated.

Data File: 1AE07015.D

Date: 07-MAY-2013 15:52

Client ID: CV1166A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-11-a Operator: SCC



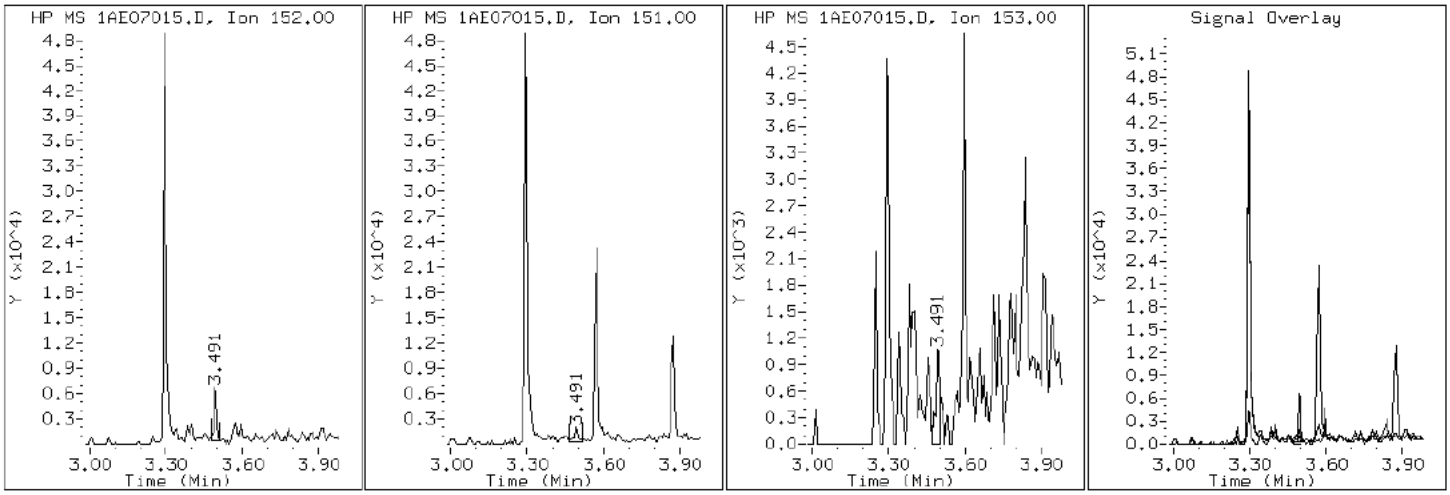
Data File: 1AE07015.D

Date: 07-MAY-2013 15:52

Client ID: CV1166A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-11-a Operator: SCC

5 Acenaphthylene



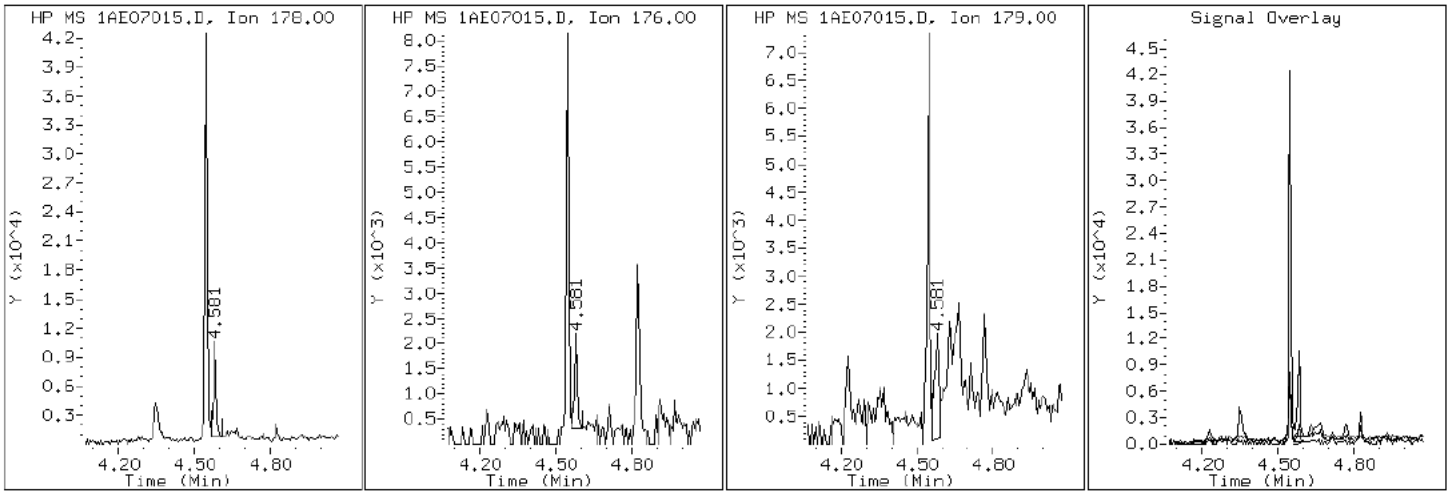
Data File: 1AE07015.D

Date: 07-MAY-2013 15:52

Client ID: CV1166A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-11-a Operator: SCC

12 Anthracene



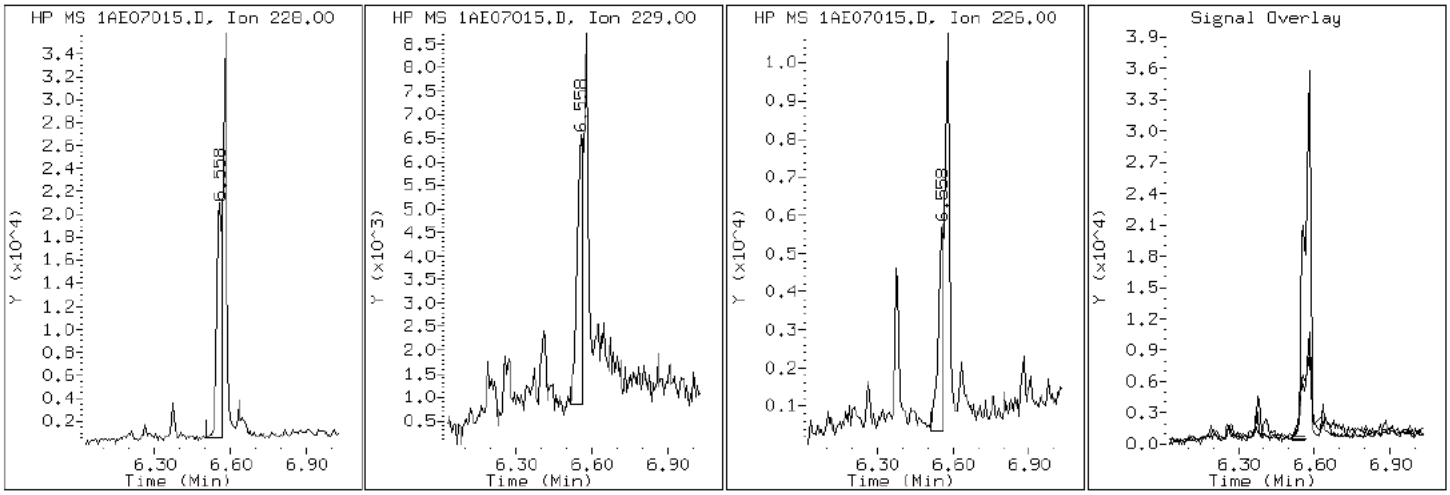
Data File: 1AE07015.D

Date: 07-MAY-2013 15:52

Client ID: CV1166A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-11-a Operator: SCC

17 Benzo(a)anthracene



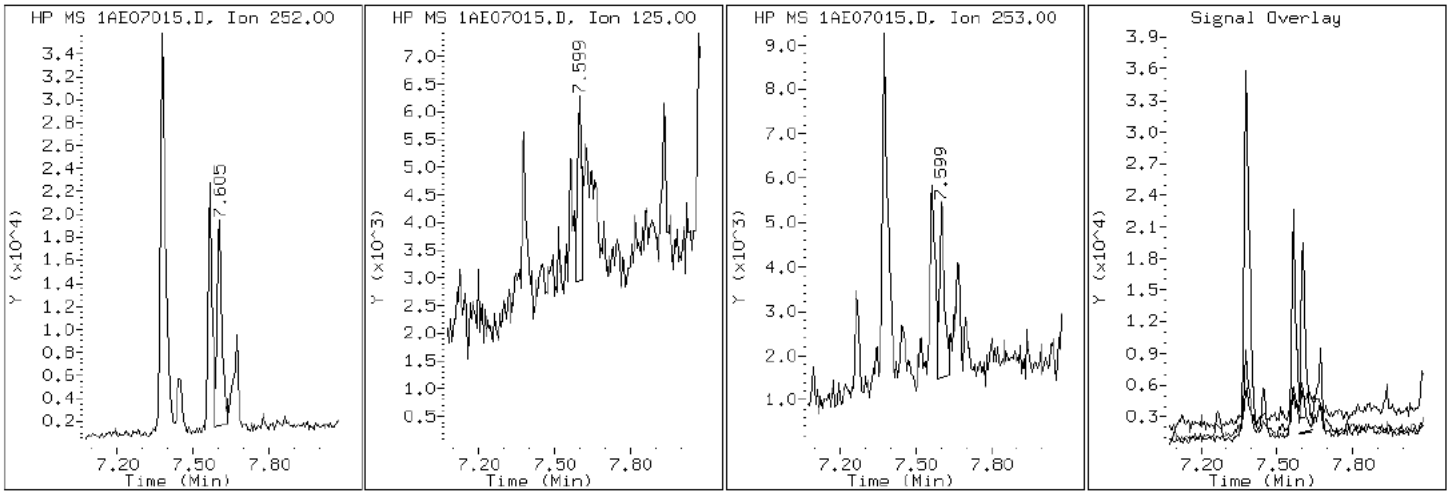
Data File: 1AE07015.D

Date: 07-MAY-2013 15:52

Client ID: CV1166A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-11-a Operator: SCC

22 Benzo(a)pyrene



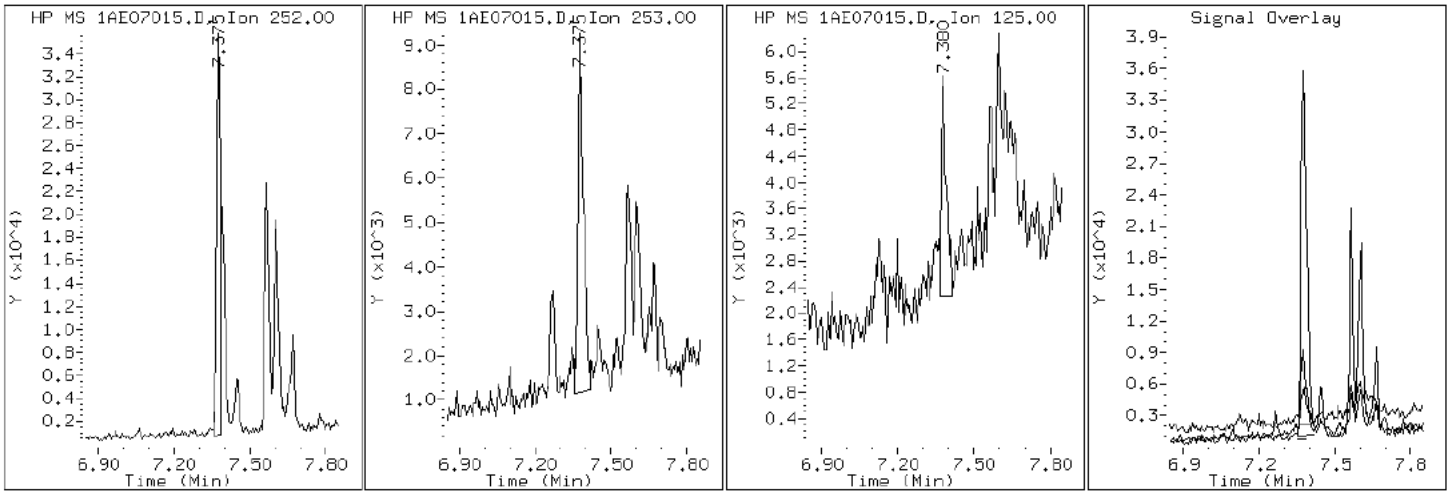
Data File: 1AE07015.D

Date: 07-MAY-2013 15:52

Client ID: CV1166A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-11-a Operator: SCC

20 Benzo(b)fluoranthene



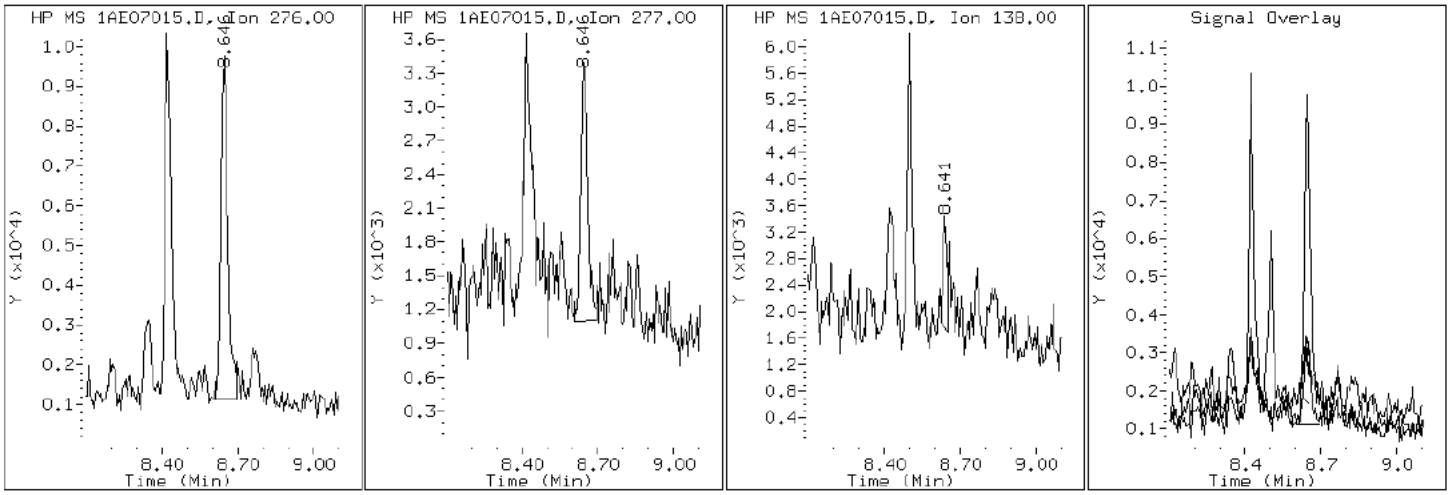
Data File: 1AE07015.D

Date: 07-MAY-2013 15:52

Client ID: CV1166A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-11-a Operator: SCC

26 Benzo(g,h,i)perylene



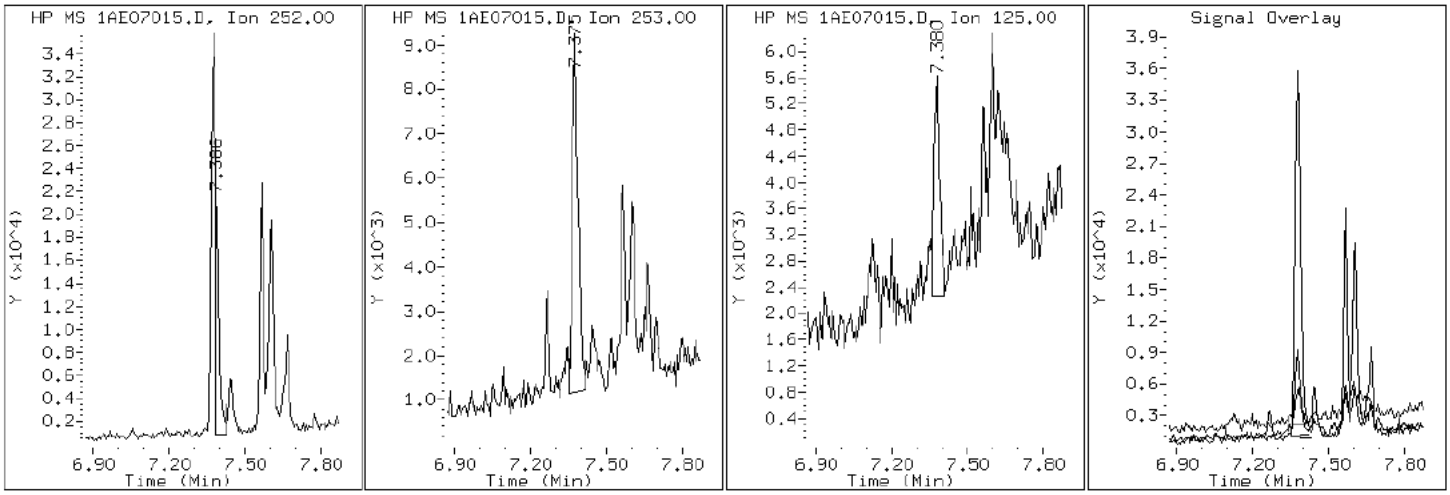
Data File: 1AE07015.D

Date: 07-MAY-2013 15:52

Client ID: CV1166A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-11-a Operator: SCC

21 Benzo(k)fluoranthene



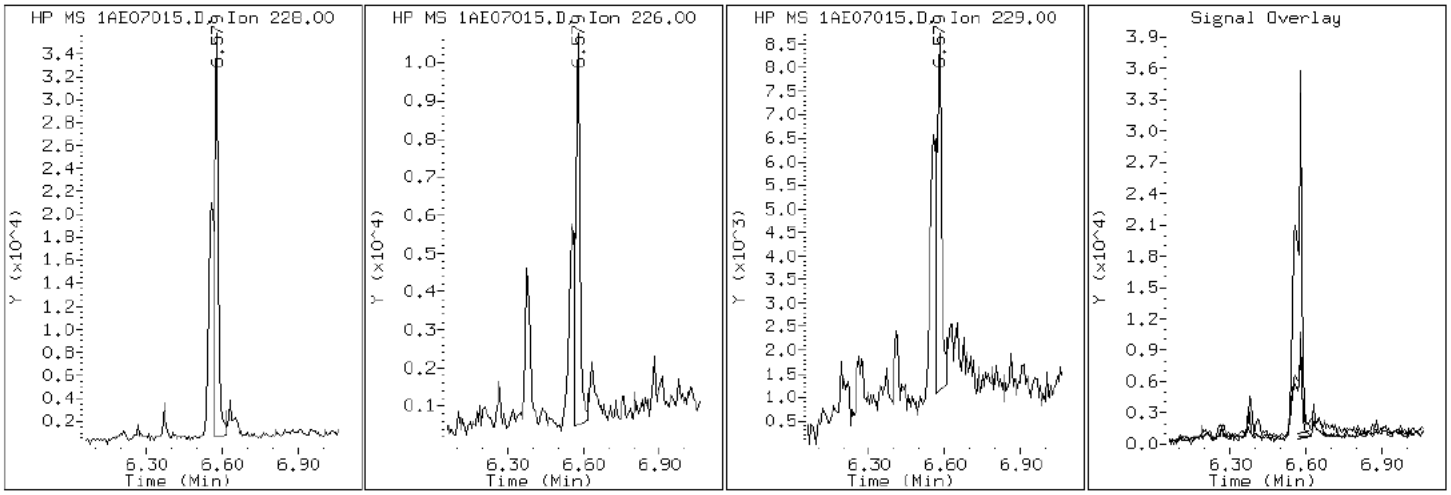
Data File: 1AE07015.D

Date: 07-MAY-2013 15:52

Client ID: CV1166A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-11-a Operator: SCC

19 Chrysene



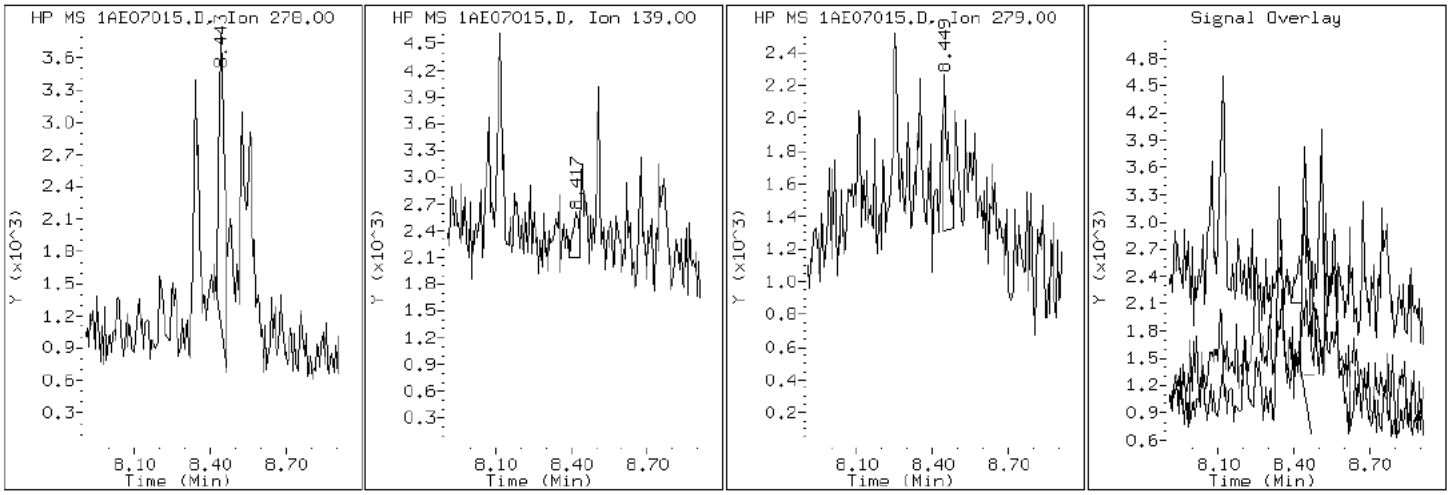
Data File: 1AE07015.D

Date: 07-MAY-2013 15:52

Client ID: CV1166A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-11-a Operator: SCC

25 Dibenzo(a,h)anthracene



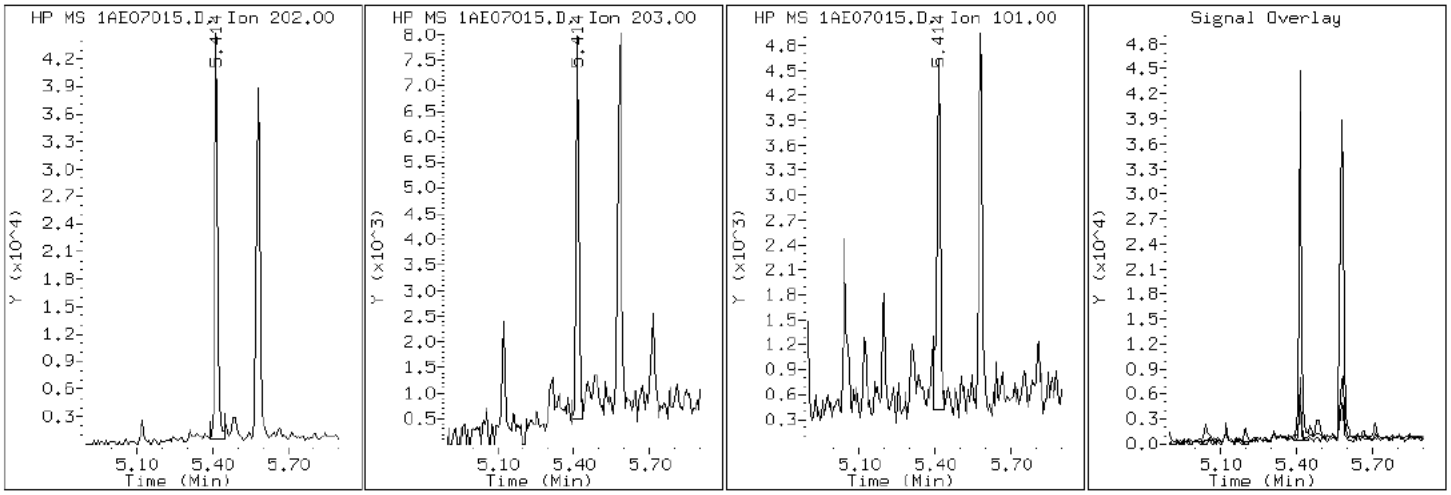
Data File: 1AE07015.D

Date: 07-MAY-2013 15:52

Client ID: CV1166A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-11-a Operator: SCC

15 Fluoranthene



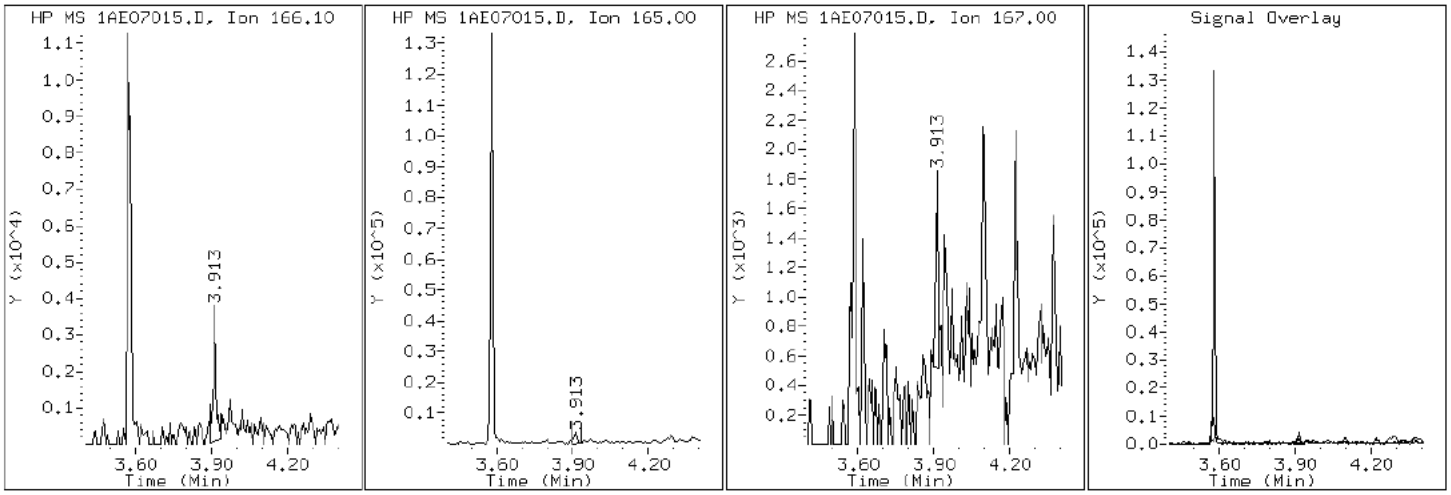
Data File: 1AE07015.D

Date: 07-MAY-2013 15:52

Client ID: CV1166A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-11-a Operator: SCC

9 Fluorene



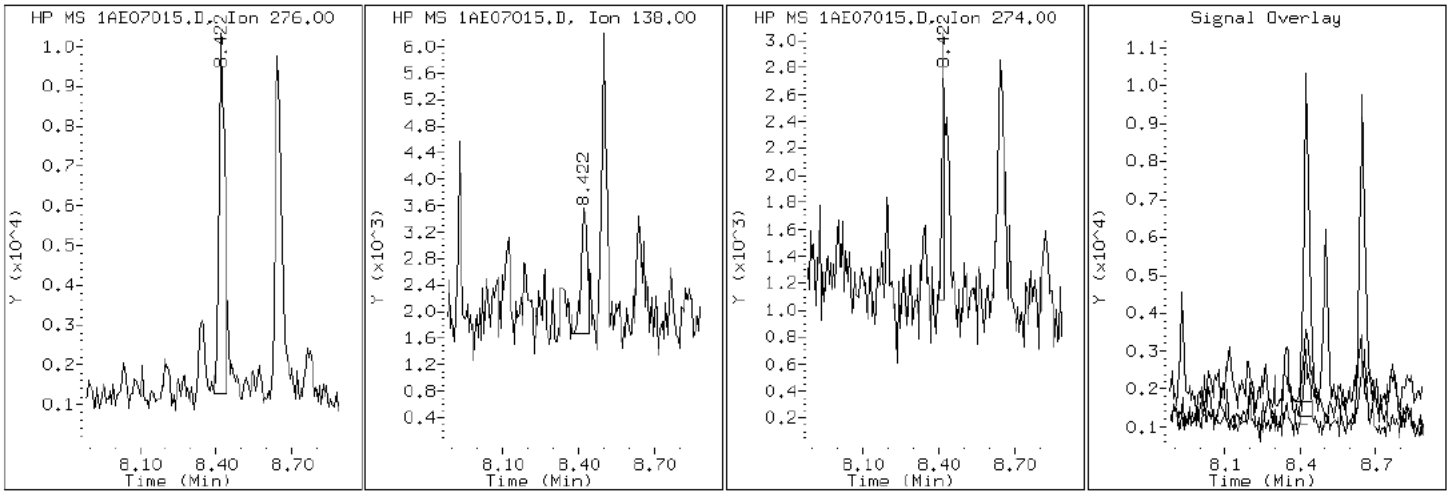
Data File: 1AE07015.D

Date: 07-MAY-2013 15:52

Client ID: CV1166A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-11-a Operator: SCC

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



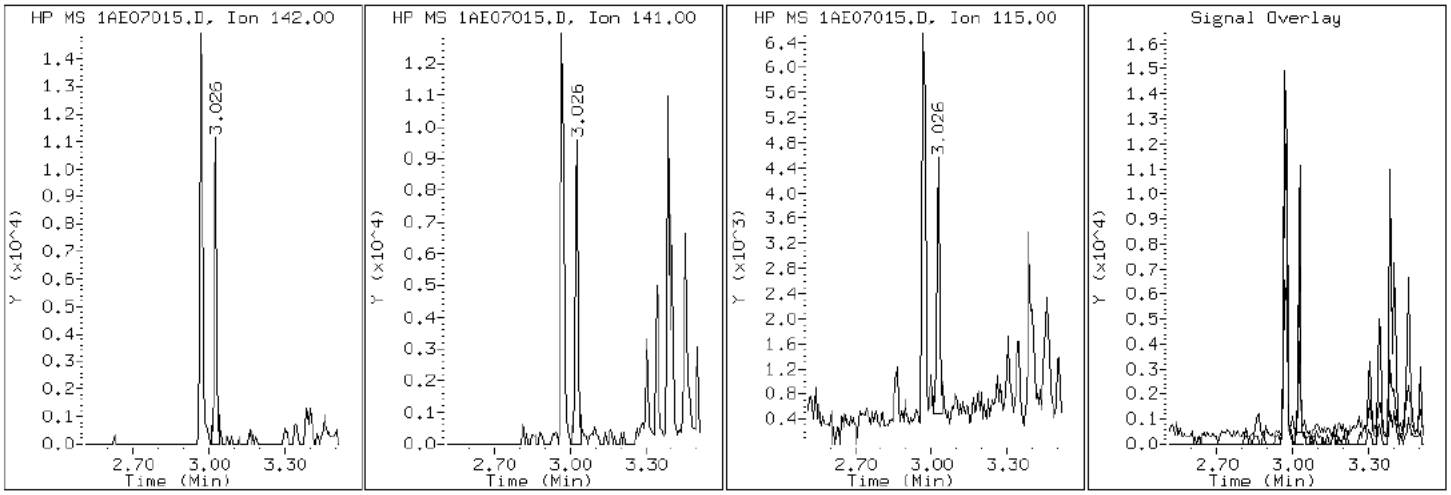
Data File: 1AE07015.D

Date: 07-MAY-2013 15:52

Client ID: CV1166A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-11-a Operator: SCC

4 1-Methylnaphthalene



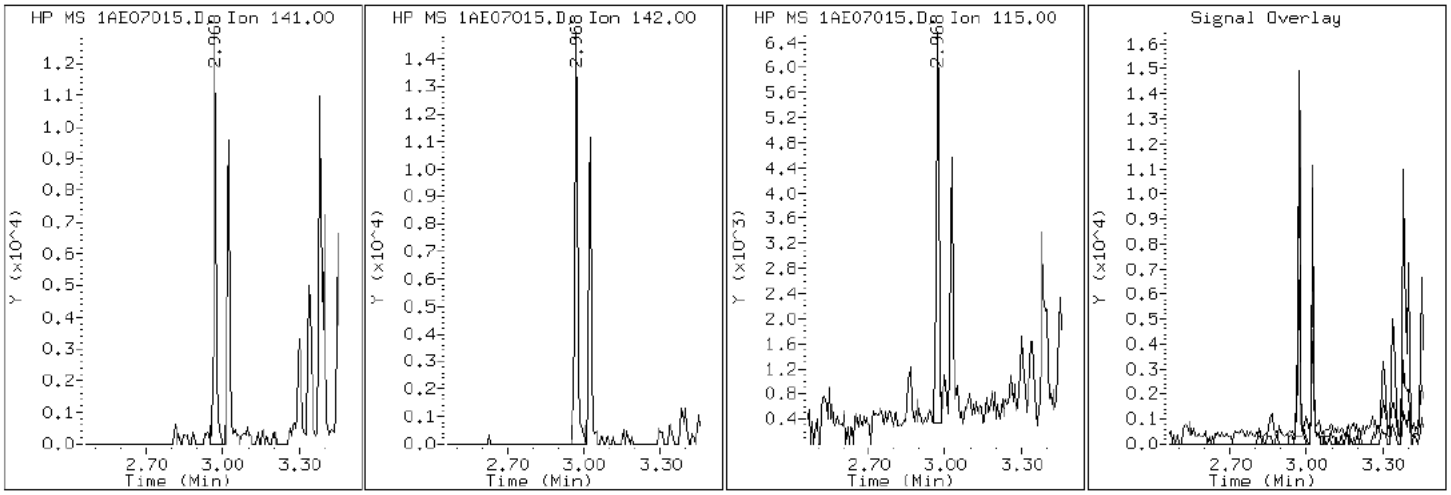
Data File: 1AE07015.D

Date: 07-MAY-2013 15:52

Client ID: CV1166A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-11-a Operator: SCC

3 2-Methylnaphthalene



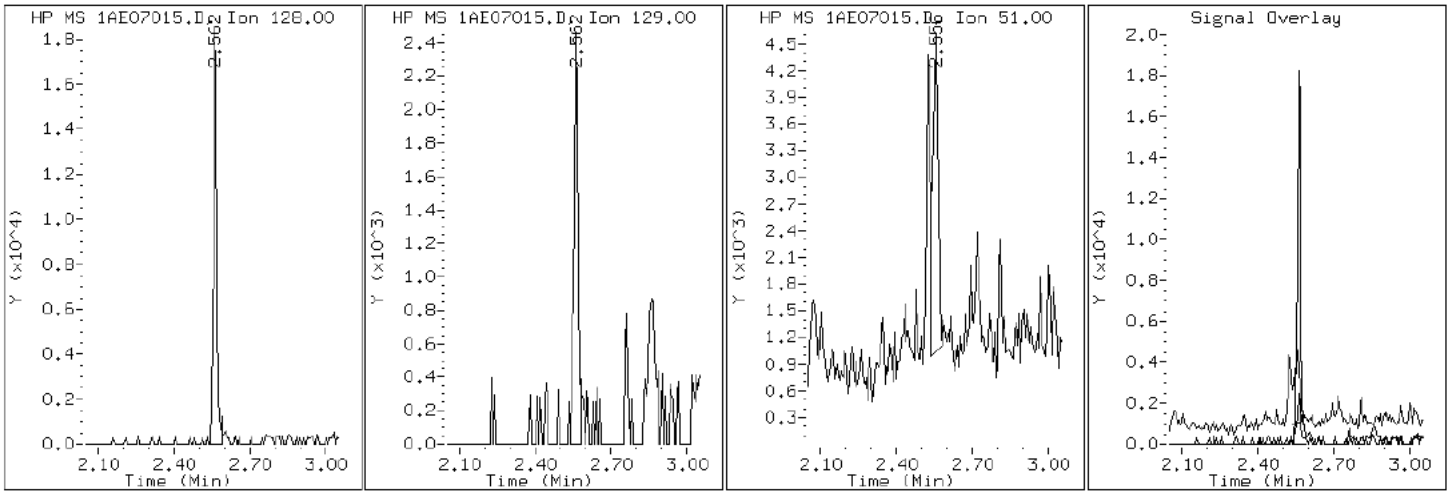
Data File: 1AE07015.D

Date: 07-MAY-2013 15:52

Client ID: CV1166A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-11-a Operator: SCC

2 Naphthalene



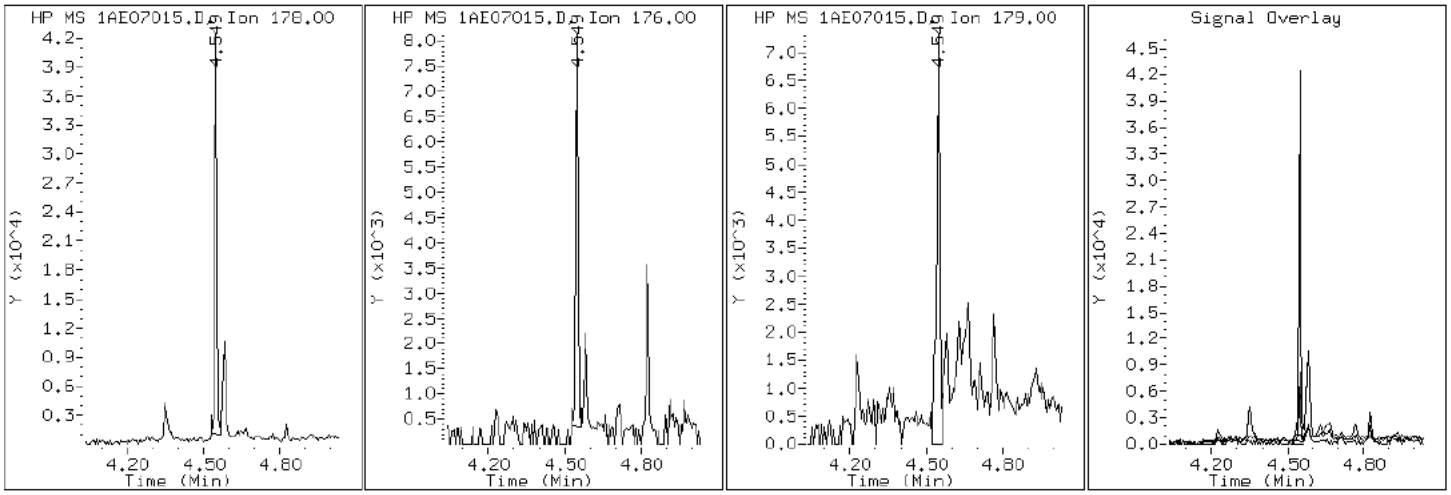
Data File: 1AE07015.D

Date: 07-MAY-2013 15:52

Client ID: CV1166A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-11-a Operator: SCC

11 Phenanthrene



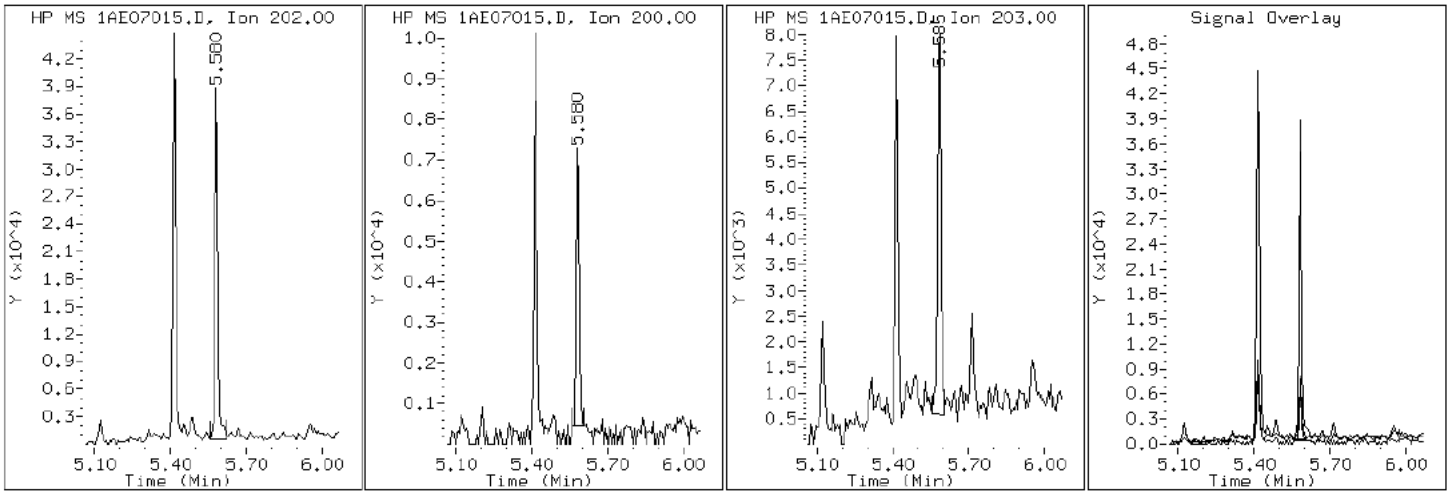
Data File: 1AE07015.D

Date: 07-MAY-2013 15:52

Client ID: CV1166A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-11-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE07015.D
Inj. Date and Time: 07-MAY-2013 15:52
Instrument ID: BSMA5973.i
Client ID: CV1166A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

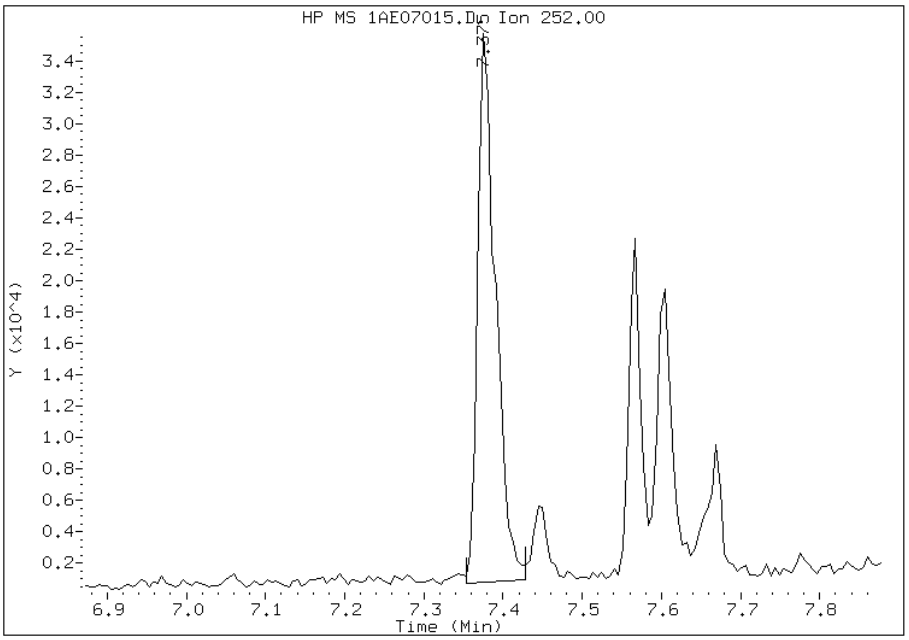
Processing Integration Results

RT: 7.37

Response: 54495

Amount: 2

Conc: 157



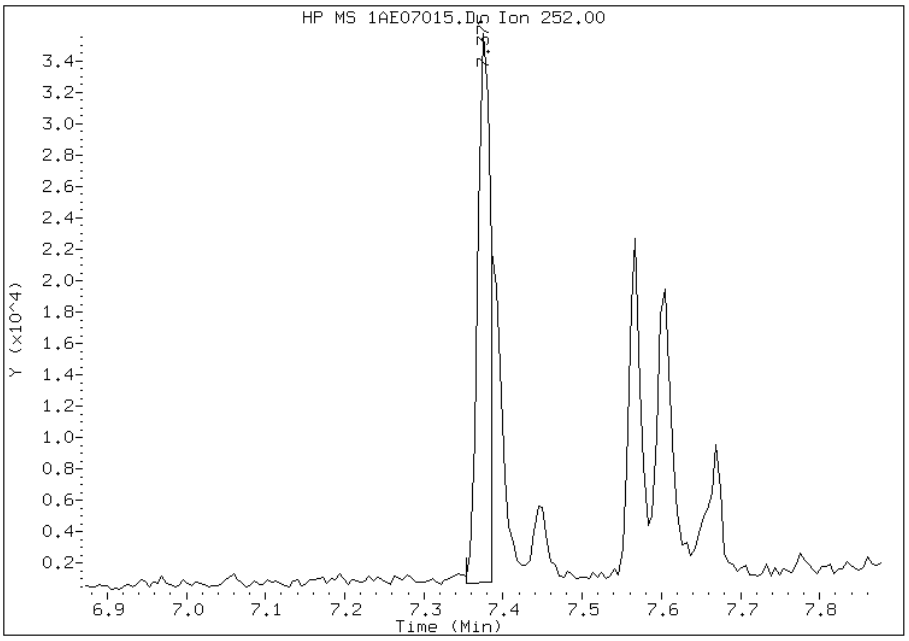
Manual Integration Results

RT: 7.37

Response: 39094

Amount: 1

Conc: 113



Manually Integrated By: cantins
Modification Date: 09-May-2013 12:01
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE07015.D
Inj. Date and Time: 07-MAY-2013 15:52
Instrument ID: BSMA5973.i
Client ID: CV1166A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

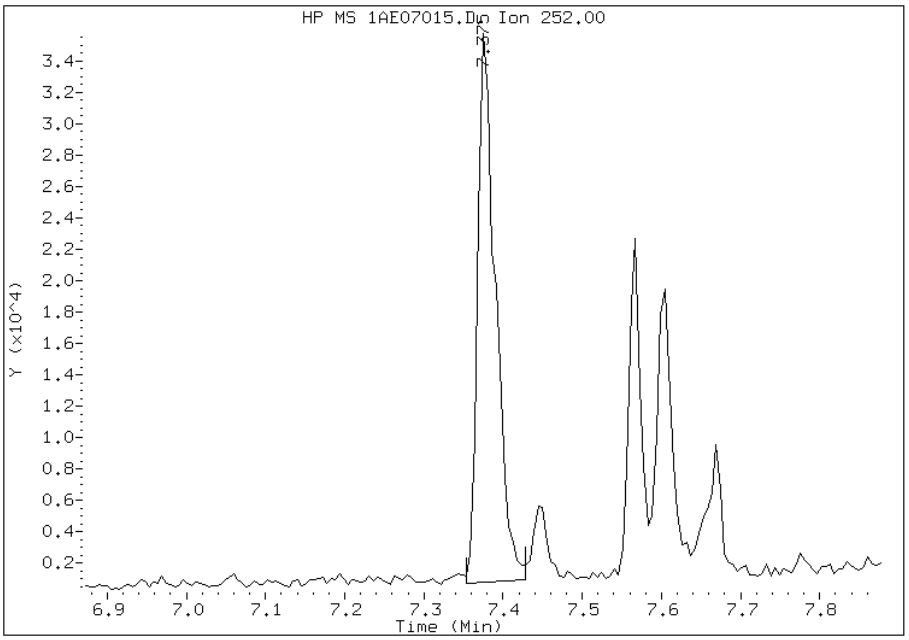
Processing Integration Results

RT: 7.37

Response: 54495

Amount: 1

Conc: 127



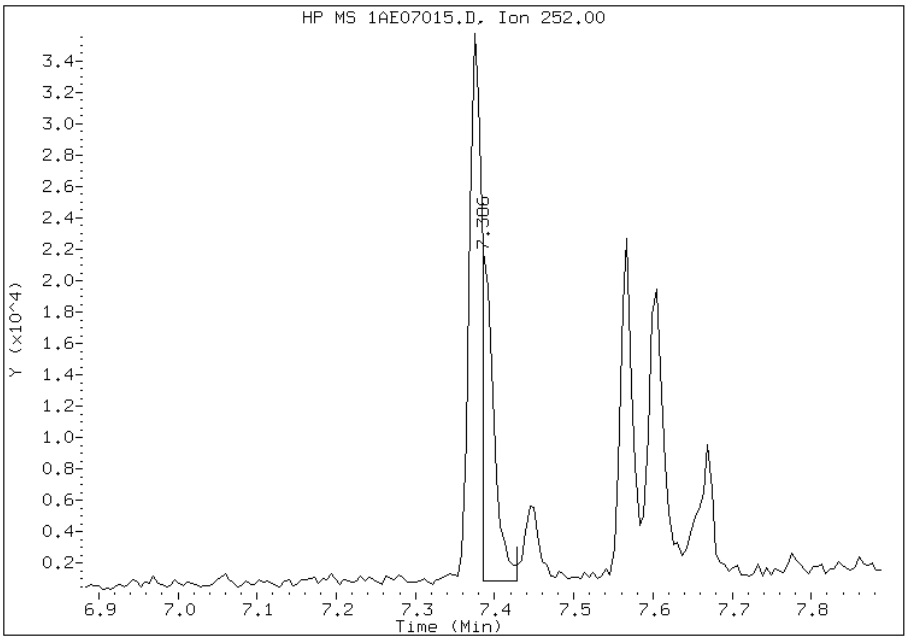
Manual Integration Results

RT: 7.39

Response: 22149

Amount: 1

Conc: 52



Manually Integrated By: cantins
Modification Date: 09-May-2013 12:01
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE07015.D
Inj. Date and Time: 07-MAY-2013 15:52
Instrument ID: BSMA5973.i
Client ID: CV1166A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

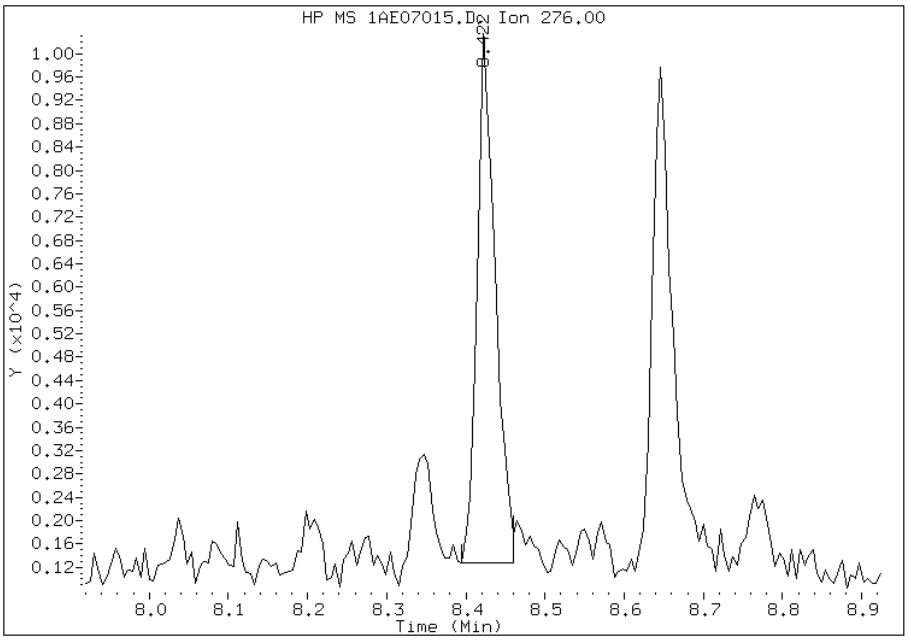
Processing Integration Results

RT: 8.42

Response: 14271

Amount: 1

Conc: 48



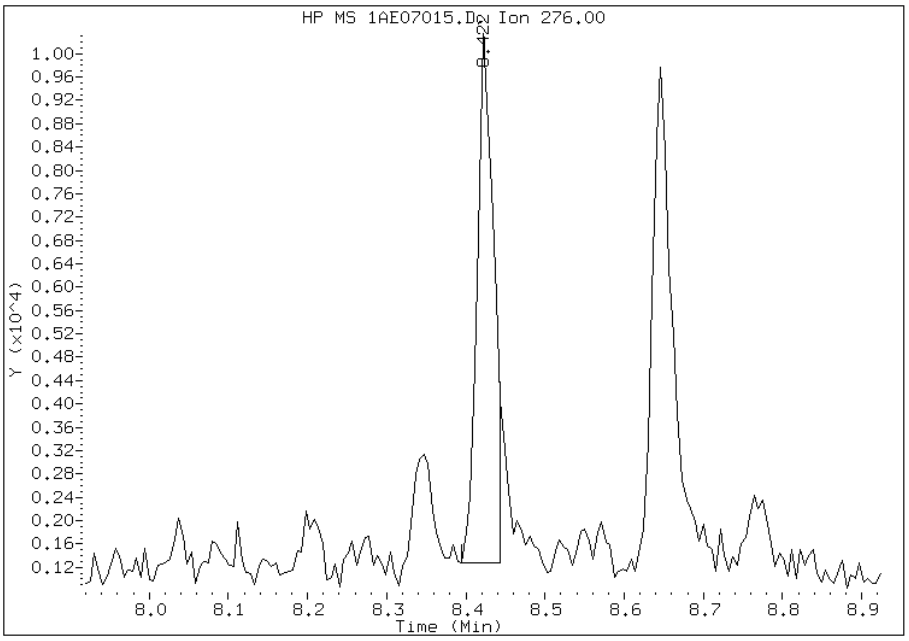
Manual Integration Results

RT: 8.42

Response: 13094

Amount: 1

Conc: 44



Manually Integrated By: cantins
Modification Date: 09-May-2013 12:02
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: CV1166B-CS | Lab Sample ID: 680-89985-12

Matrix: Solid | Lab File ID: 1AE07016.D

Analysis Method: 8270C LL | Date Collected: 05/01/2013 12:50

Extract. Method: 3546 | Date Extracted: 05/06/2013 08:14

Sample wt/vol: 14.91(g) | Date Analyzed: 05/07/2013 16:07

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

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

% Moisture: 21.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137194 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	91	J	130	26
208-96-8	Acenaphthylene	43	J	51	6.4
120-12-7	Anthracene	190		11	5.4
56-55-3	Benzo[a]anthracene	590		10	5.0
50-32-8	Benzo[a]pyrene	460		13	6.6
205-99-2	Benzo[b]fluoranthene	710		16	7.8
191-24-2	Benzo[g,h,i]perylene	240		26	5.6
207-08-9	Benzo[k]fluoranthene	220		10	4.6
218-01-9	Chrysene	470		11	5.7
53-70-3	Dibenz(a,h)anthracene	85		26	5.2
206-44-0	Fluoranthene	970		26	5.1
86-73-7	Fluorene	68		26	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	270		26	9.1
90-12-0	1-Methylnaphthalene	110		51	5.6
91-57-6	2-Methylnaphthalene	130		51	9.1
91-20-3	Naphthalene	110		51	5.6
85-01-8	Phenanthrene	700		10	5.0
129-00-0	Pyrene	640		26	4.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\1AE07016.D
Lab Smp Id: 680-89985-A-12-A Client Smp ID: CV1166B-CS
Inj Date : 07-MAY-2013 16:07
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89985-a-12-a
Misc Info : 680-89985-A-12-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\a-bFASTPAHi-m.m
Meth Date : 07-May-2013 13:04 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.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	14.910	Weight Extracted
M	21.000	% 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	2.544	(1.000)	1225222	40.0000	
*	6 Acenaphthene-d10	164	3.584	3.575	(1.000)	657756	40.0000	
*	10 Phenanthrene-d10	188	4.535	4.526	(1.000)	950637	40.0000	
$	14 o-Terphenyl	230	4.829	4.820	(1.065)	73204	5.38040	456.7826
*	18 Chrysene-d12	240	6.571	6.545	(1.000)	1081721	40.0000	
*	23 Perylene-d12	264	7.666	7.630	(1.000)	1189134	40.0000	
	2 Naphthalene	128	2.564	2.555	(1.004)	37407	1.29647	110.0671
	3 2-Methylnaphthalene	141	2.970	2.961	(1.163)	22768	1.55270	131.8204
	4 1-Methylnaphthalene	142	3.023	3.014	(1.184)	21710	1.23522	104.8671
	5 Acenaphthylene	152	3.494	3.484	(0.975)	15557	0.50334	42.7326
	7 Acenaphthene	154	3.600	3.591	(1.004)	18980	1.06933	90.7831
	9 Fluorene	166	3.916	3.906	(1.092)	16148	0.79832	67.7754
	11 Phenanthrene	178	4.551	4.537	(1.004)	193860	8.23141	698.8263
	12 Anthracene	178	4.583	4.574	(1.011)	55982	2.23147	189.4461

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	4.722	4.707	(1.041)	24766	1.09795	93.2132
15 Fluoranthene	202	5.422	5.402	(1.196)	309701	11.4308	970.4432
16 Pyrene	202	5.588	5.568	(0.850)	262524	7.55016	640.9905
17 Benzo(a)anthracene	228	6.560	6.529	(0.998)	211568	6.95924	590.8226
19 Chrysene	228	6.587	6.561	(1.002)	189833	5.54977	471.1618
20 Benzo(b)fluoranthene	252	7.388	7.352	(0.964)	263134	8.37185	710.7496(M)
21 Benzo(k)fluoranthene	252	7.399	7.373	(0.965)	101373	2.59980	220.7166(QM)
22 Benzo(a)pyrene	252	7.612	7.576	(0.993)	174311	5.40009	458.4544
24 Indeno(1,2,3-cd)pyrene	276	8.440	8.388	(1.101)	86789	3.20943	272.4732(M)
25 Dibenzo(a,h)anthracene	278	8.456	8.410	(1.103)	27685	0.99876	84.7919
26 Benzo(g,h,i)perylene	276	8.665	8.602	(1.130)	83287	2.86413	243.1580

QC Flag Legend

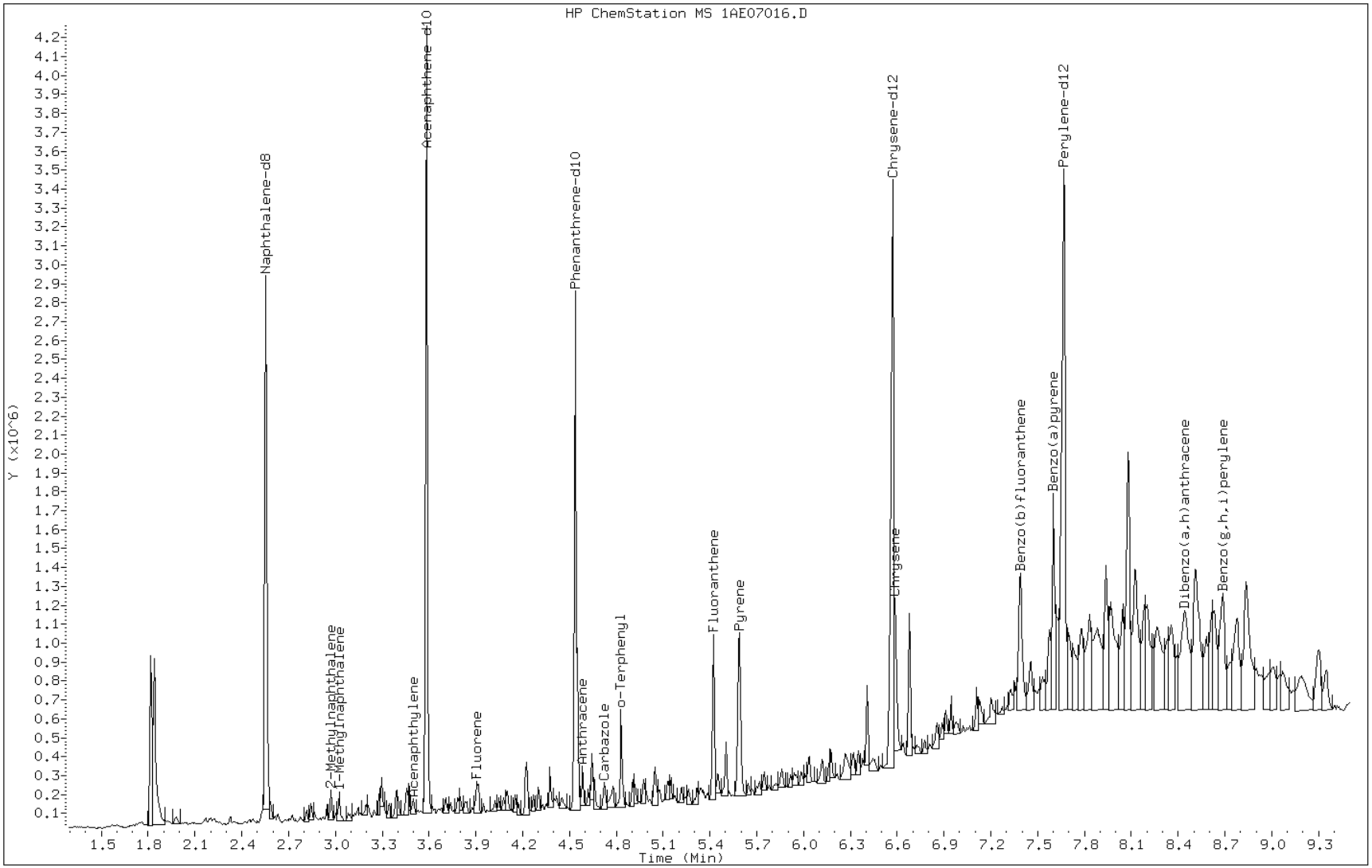
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE07016.D

Date: 07-MAY-2013 16:07

Client ID: CV1166B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-12-a Operator: SCC



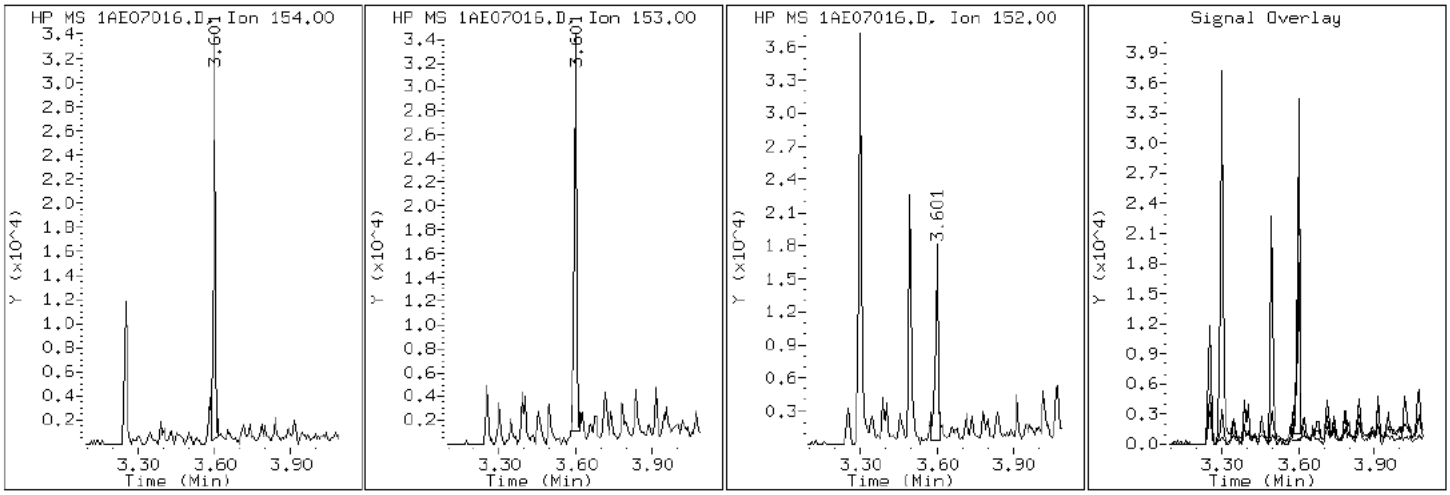
Data File: 1AE07016.D

Date: 07-MAY-2013 16:07

Client ID: CV1166B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-12-a Operator: SCC

7 Acenaphthene



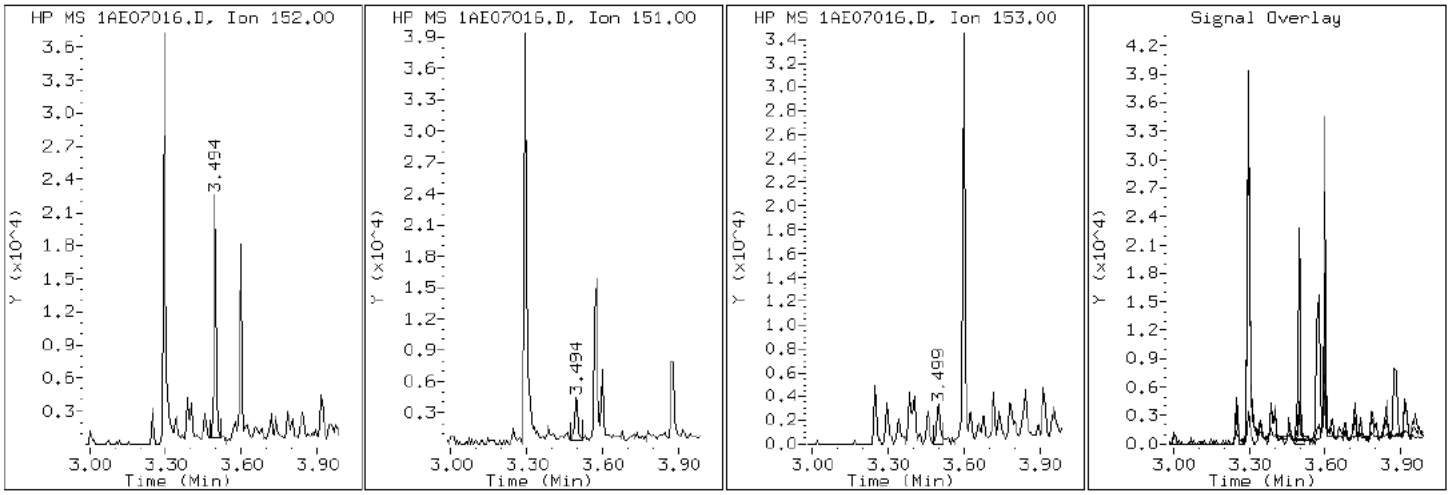
Data File: 1AE07016.D

Date: 07-MAY-2013 16:07

Client ID: CV1166B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-12-a Operator: SCC

5 Acenaphthylene



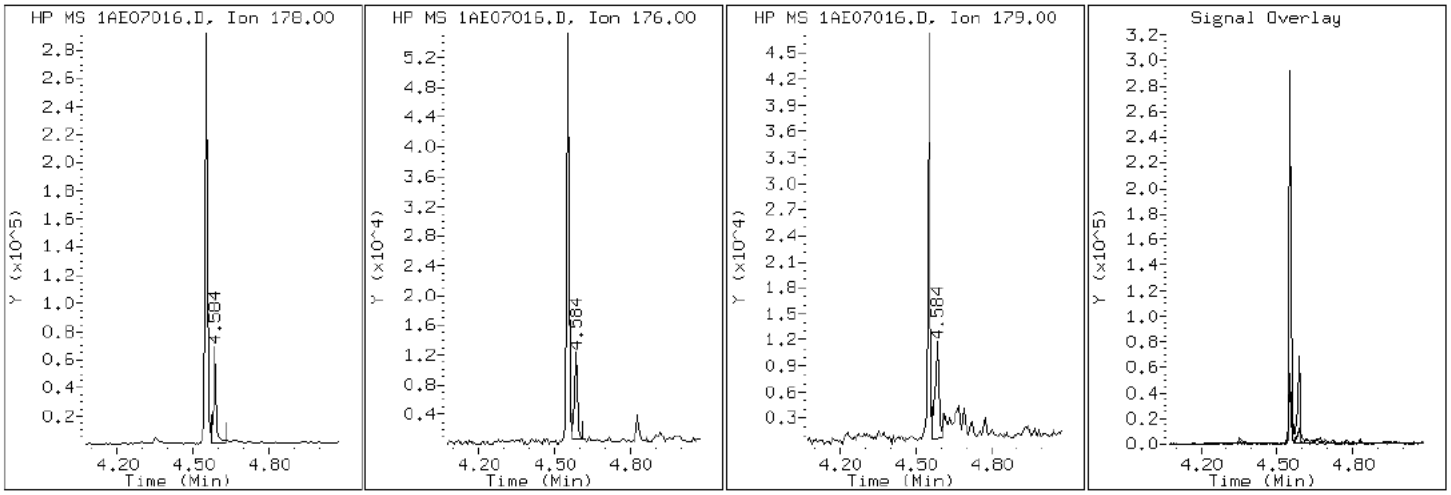
Data File: 1AE07016.D

Date: 07-MAY-2013 16:07

Client ID: CV1166B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-12-a Operator: SCC

12 Anthracene



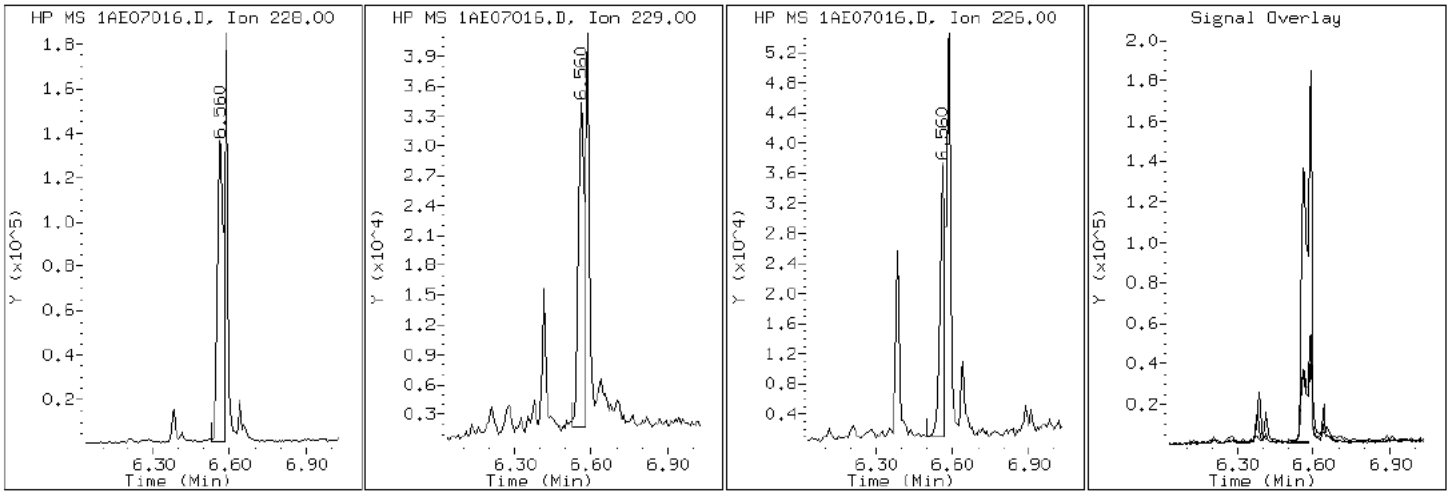
Data File: 1AE07016.D

Date: 07-MAY-2013 16:07

Client ID: CV1166B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-12-a Operator: SCC

17 Benzo(a)anthracene



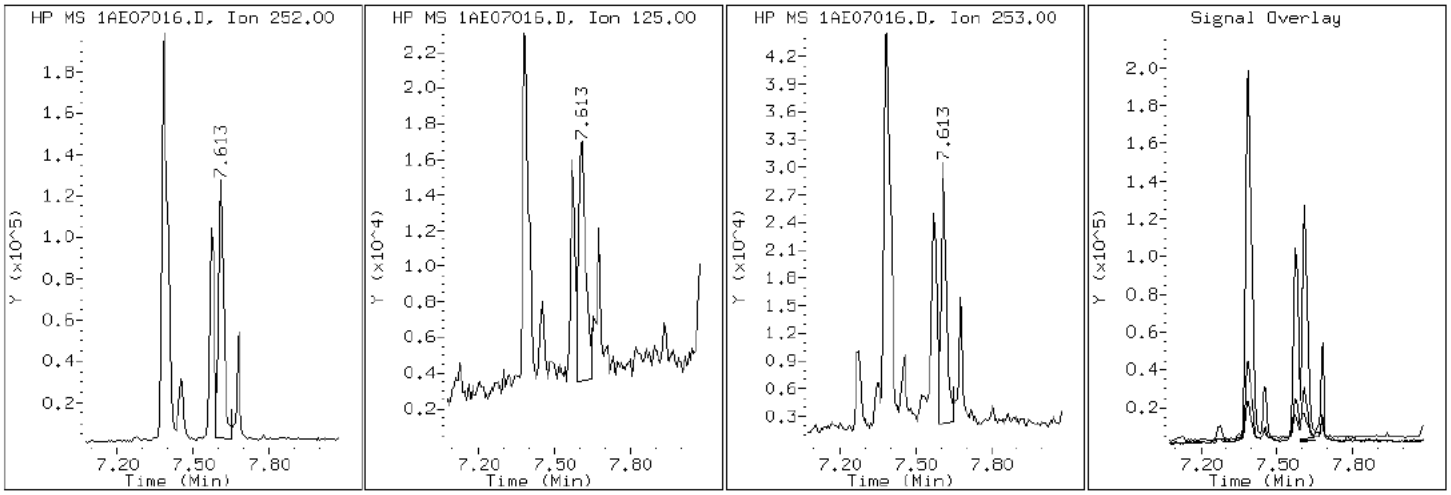
Data File: 1AE07016.D

Date: 07-MAY-2013 16:07

Client ID: CV1166B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-12-a Operator: SCC

22 Benzo(a)pyrene



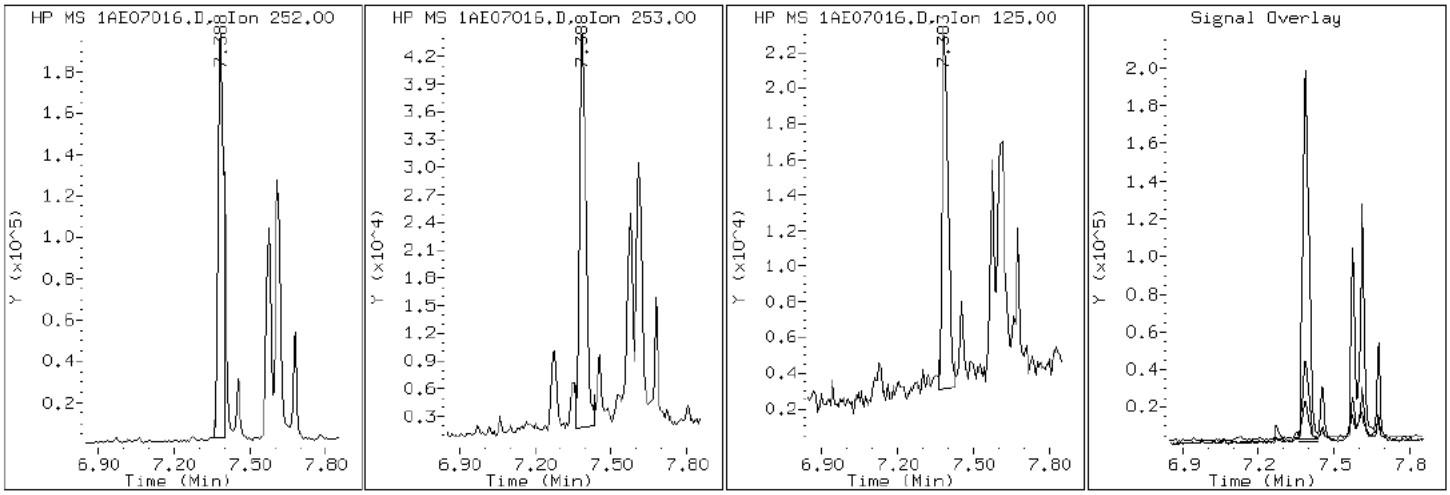
Data File: 1AE07016.D

Date: 07-MAY-2013 16:07

Client ID: CV1166B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-12-a Operator: SCC

20 Benzo(b)fluoranthene



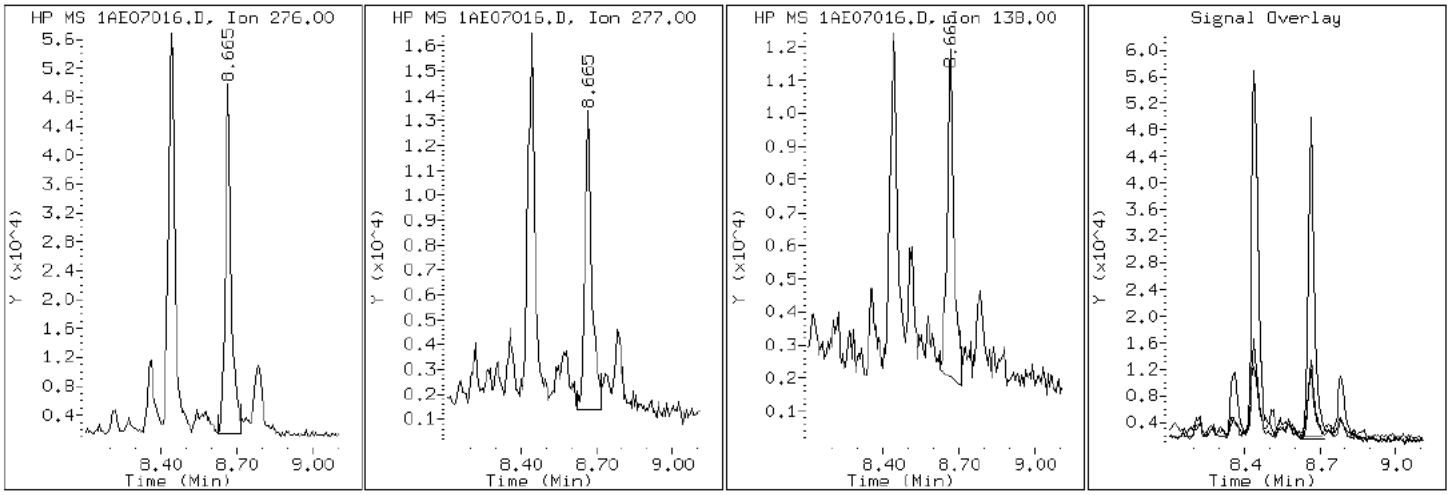
Data File: 1AE07016.D

Date: 07-MAY-2013 16:07

Client ID: CV1166B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-12-a Operator: SCC

26 Benzo(g,h,i)perylene



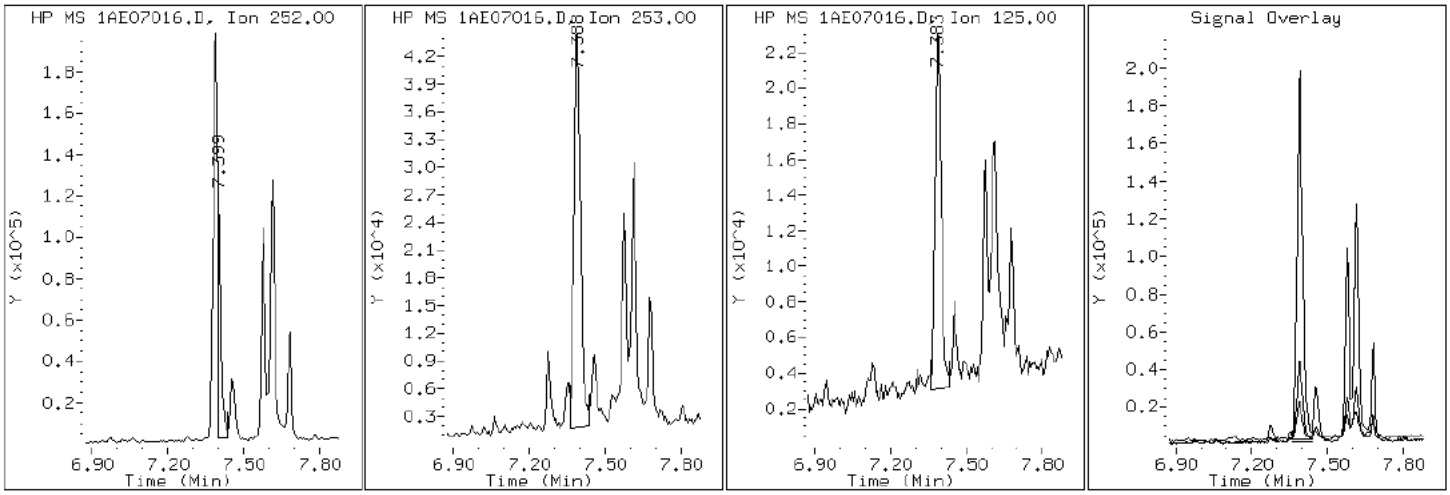
Data File: 1AE07016.D

Date: 07-MAY-2013 16:07

Client ID: CV1166B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-12-a Operator: SCC

21 Benzo(k)fluoranthene



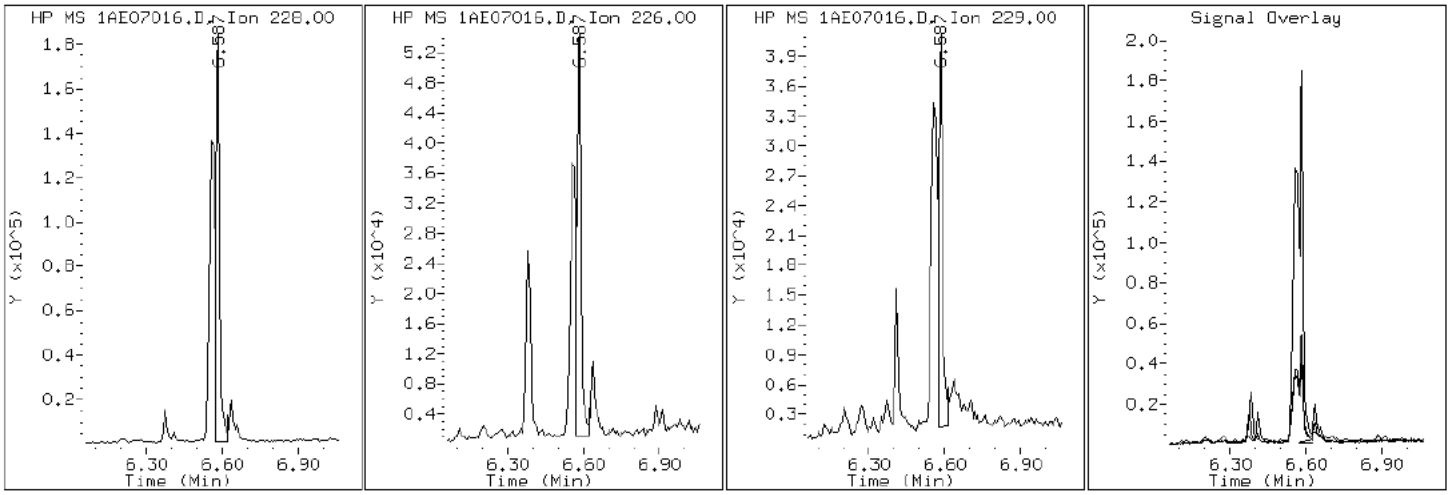
Data File: 1AE07016.D

Date: 07-MAY-2013 16:07

Client ID: CV1166B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-12-a Operator: SCC

19 Chrysene



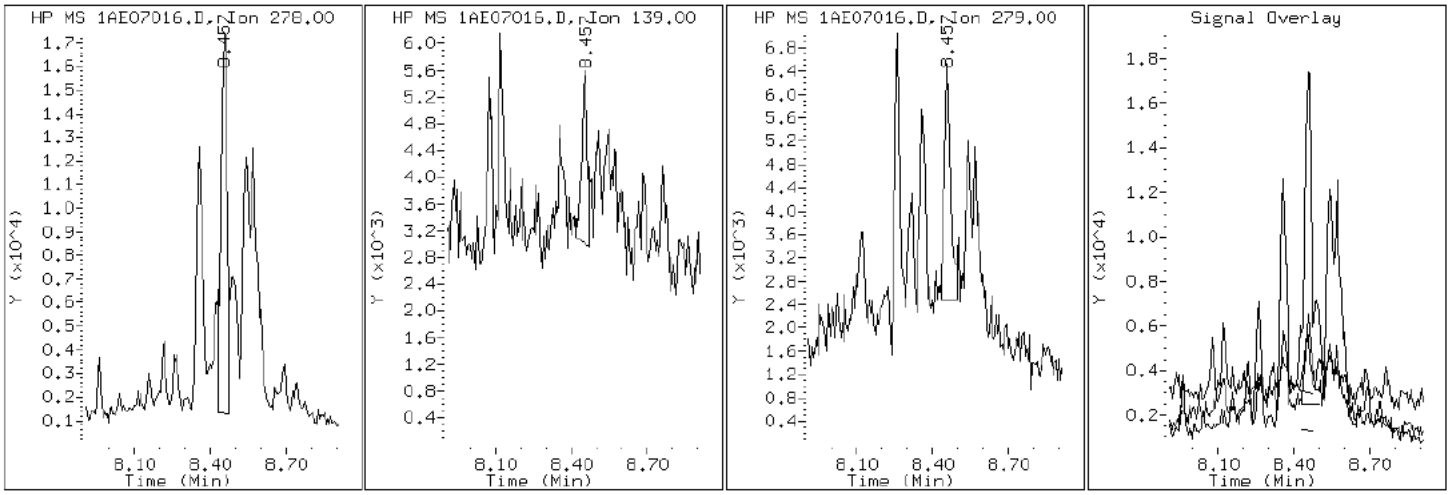
Data File: 1AE07016.D

Date: 07-MAY-2013 16:07

Client ID: CV1166B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-12-a Operator: SCC

25 Dibenzo(a,h)anthracene



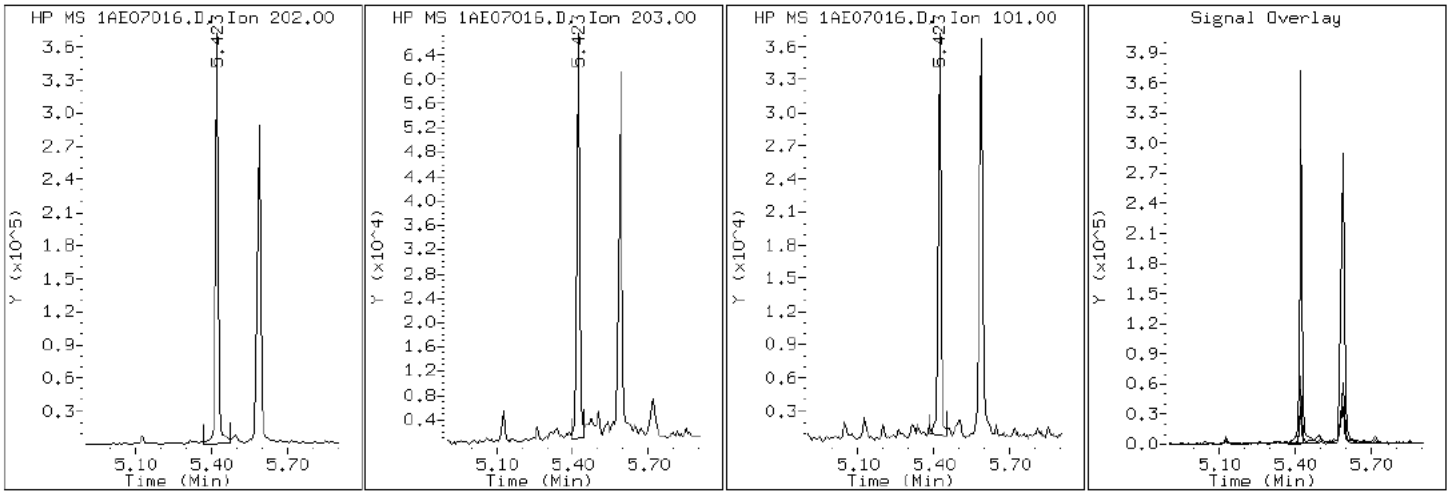
Data File: 1AE07016.D

Date: 07-MAY-2013 16:07

Client ID: CV1166B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-12-a Operator: SCC

15 Fluoranthene



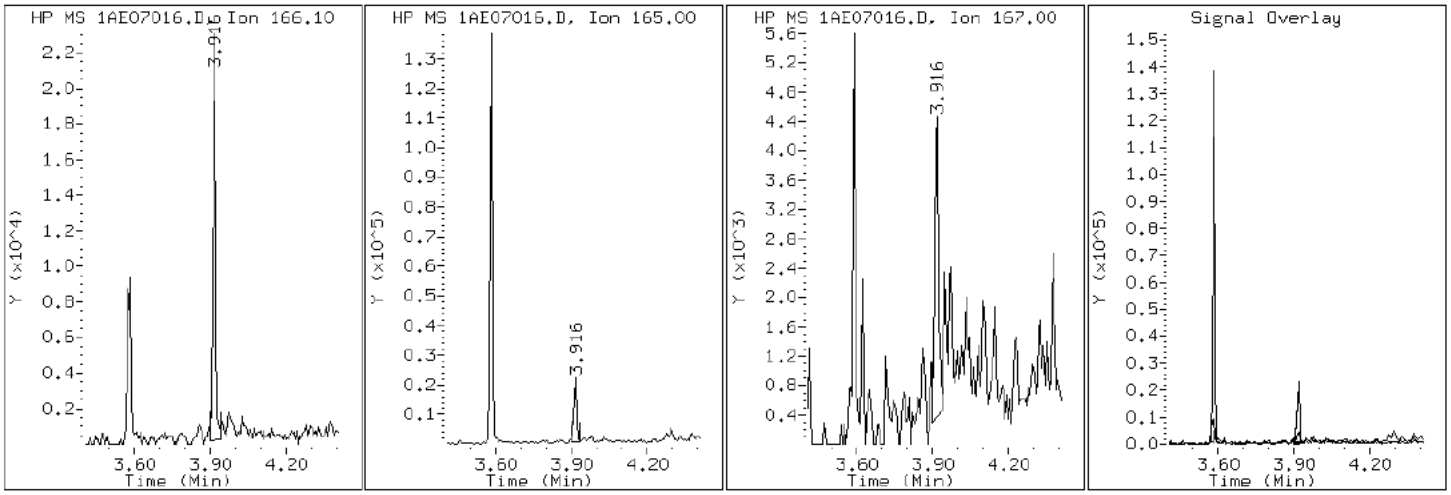
Data File: 1AE07016.D

Date: 07-MAY-2013 16:07

Client ID: CV1166B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-12-a Operator: SCC

9 Fluorene



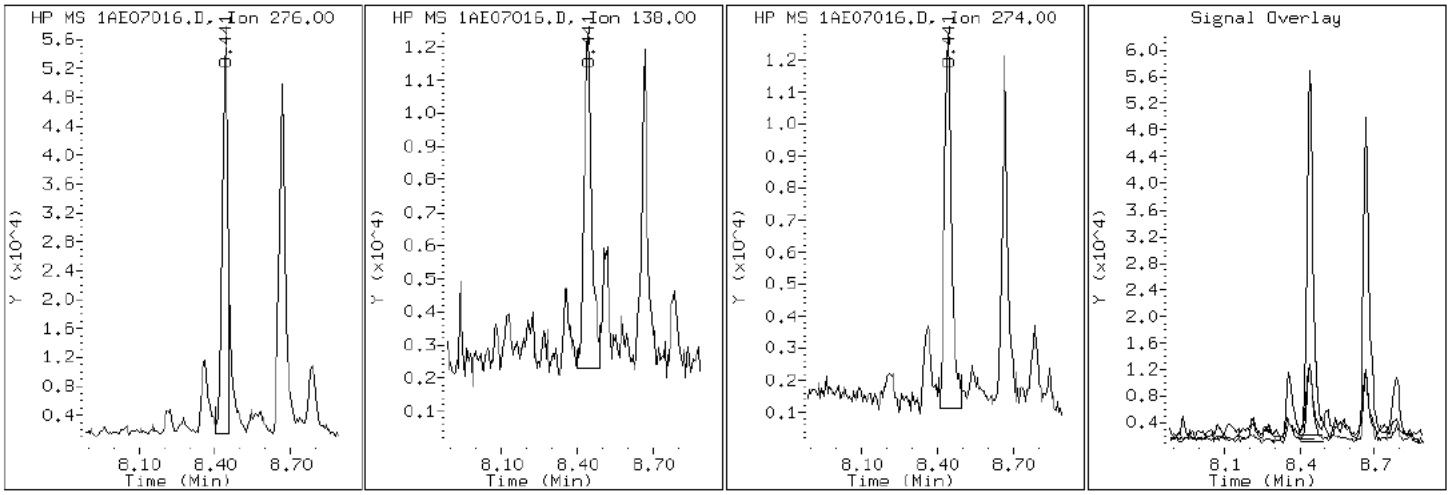
Data File: 1AE07016.D

Date: 07-MAY-2013 16:07

Client ID: CV1166B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-12-a Operator: SCC

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



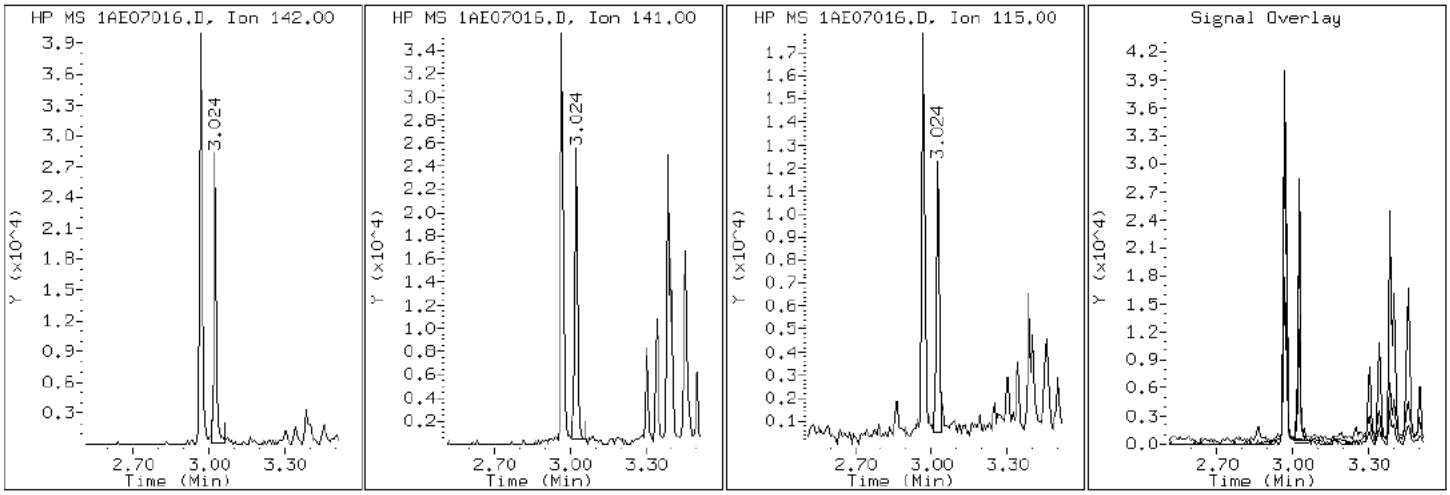
Data File: 1AE07016.D

Date: 07-MAY-2013 16:07

Client ID: CV1166B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-12-a Operator: SCC

4 1-Methylnaphthalene



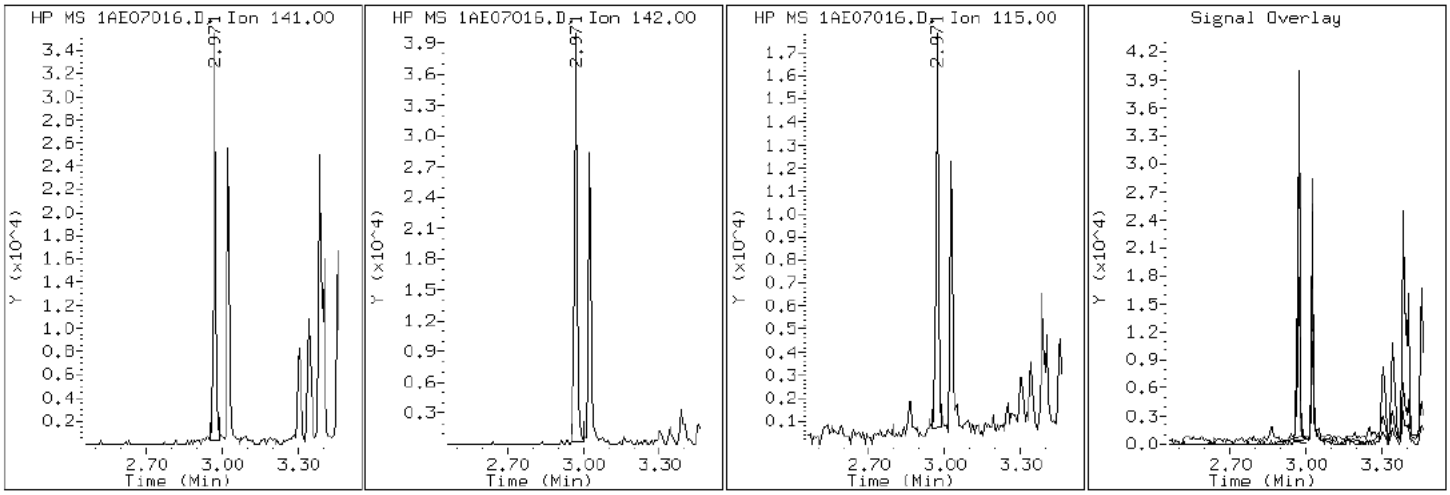
Data File: 1AE07016.D

Date: 07-MAY-2013 16:07

Client ID: CV1166B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-12-a Operator: SCC

3 2-Methylnaphthalene



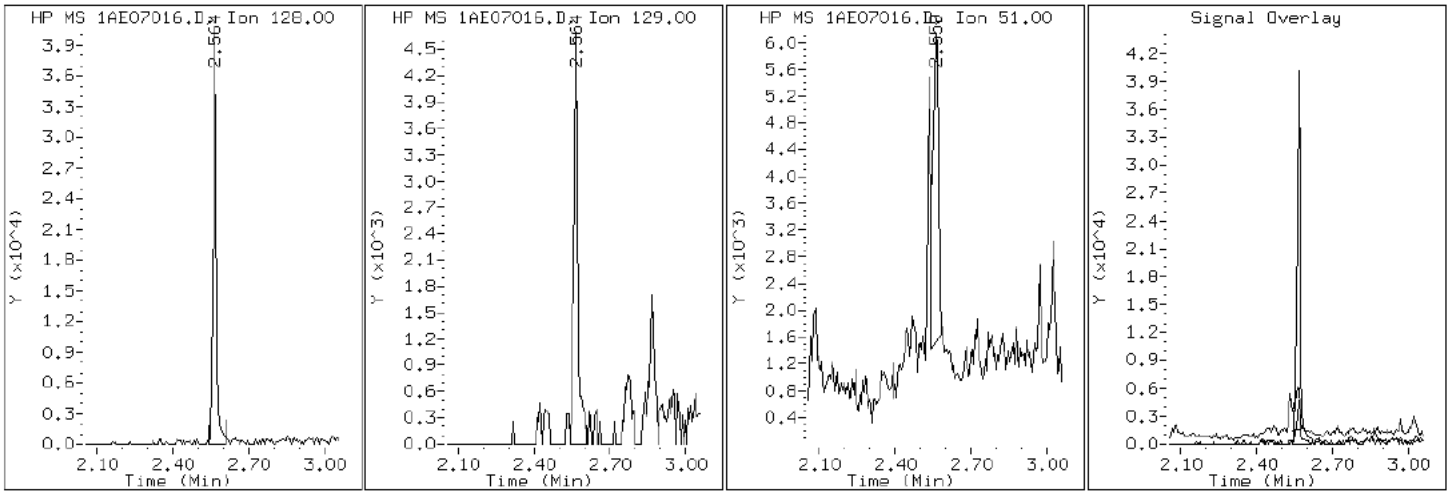
Data File: 1AE07016.D

Date: 07-MAY-2013 16:07

Client ID: CV1166B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-12-a Operator: SCC

2 Naphthalene



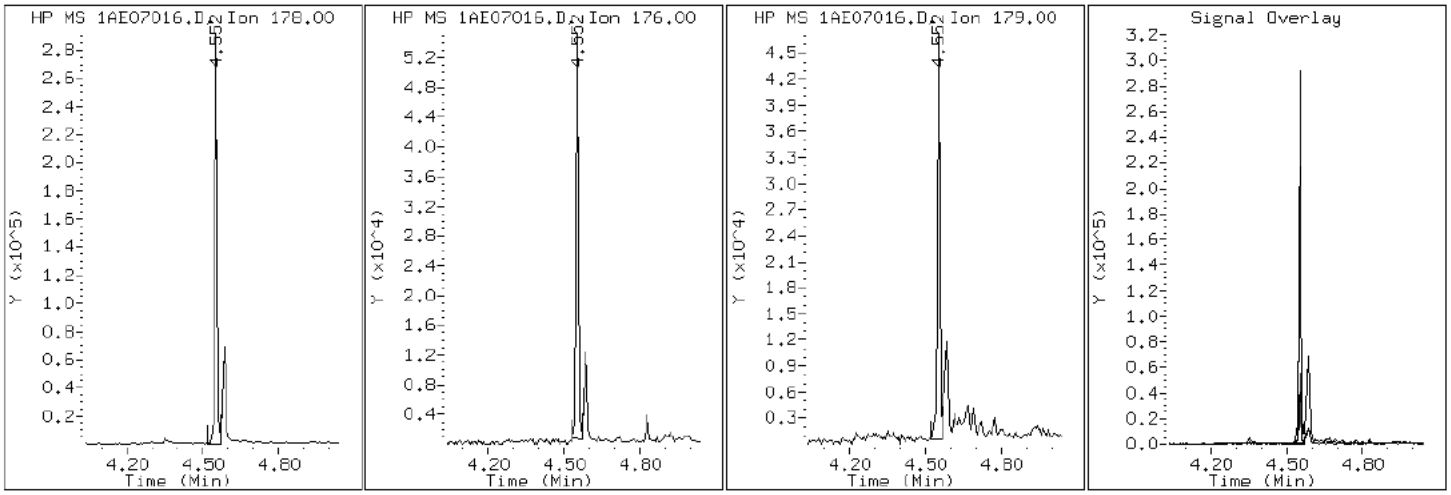
Data File: 1AE07016.D

Date: 07-MAY-2013 16:07

Client ID: CV1166B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-12-a Operator: SCC

11 Phenanthrene



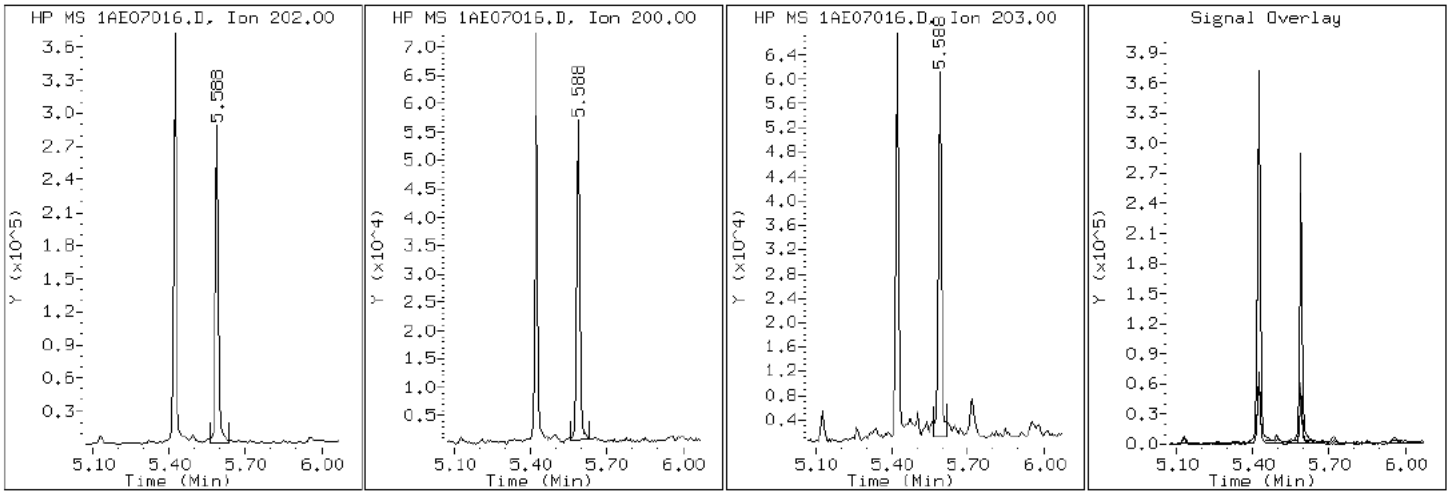
Data File: 1AE07016.D

Date: 07-MAY-2013 16:07

Client ID: CV1166B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-12-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE07016.D
Inj. Date and Time: 07-MAY-2013 16:07
Instrument ID: BSMA5973.i
Client ID: CV1166B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

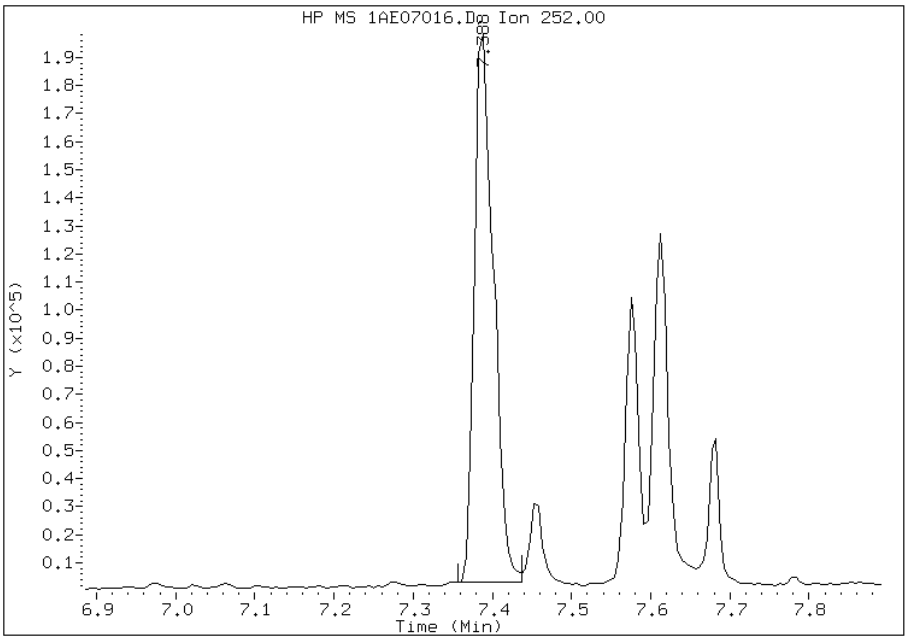
Processing Integration Results

RT: 7.39

Response: 325682

Amount: 10

Conc: 880



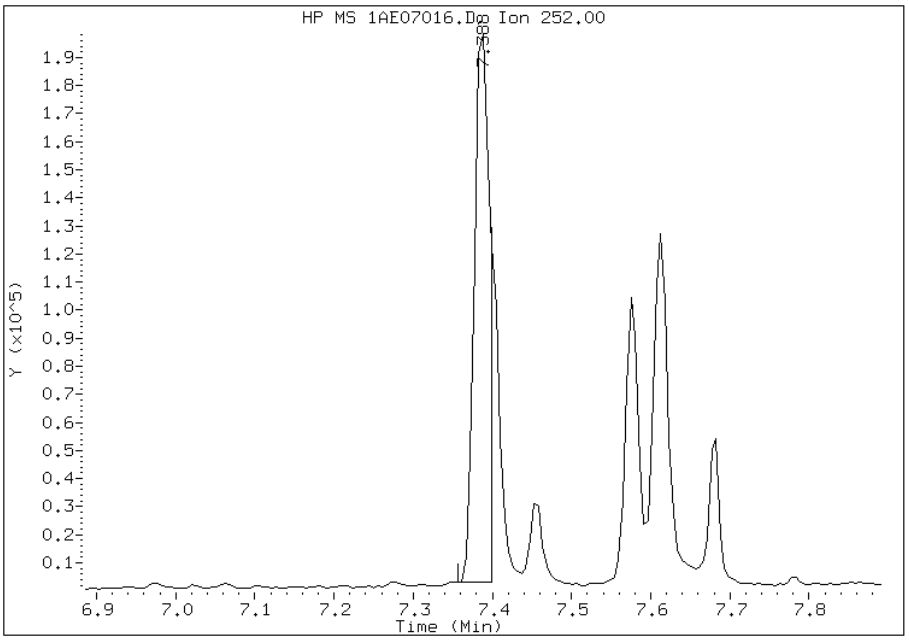
Manual Integration Results

RT: 7.39

Response: 263134

Amount: 8

Conc: 711



Manually Integrated By: cantins
Modification Date: 09-May-2013 12:03
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE07016.D
Inj. Date and Time: 07-MAY-2013 16:07
Instrument ID: BSMA5973.i
Client ID: CV1166B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

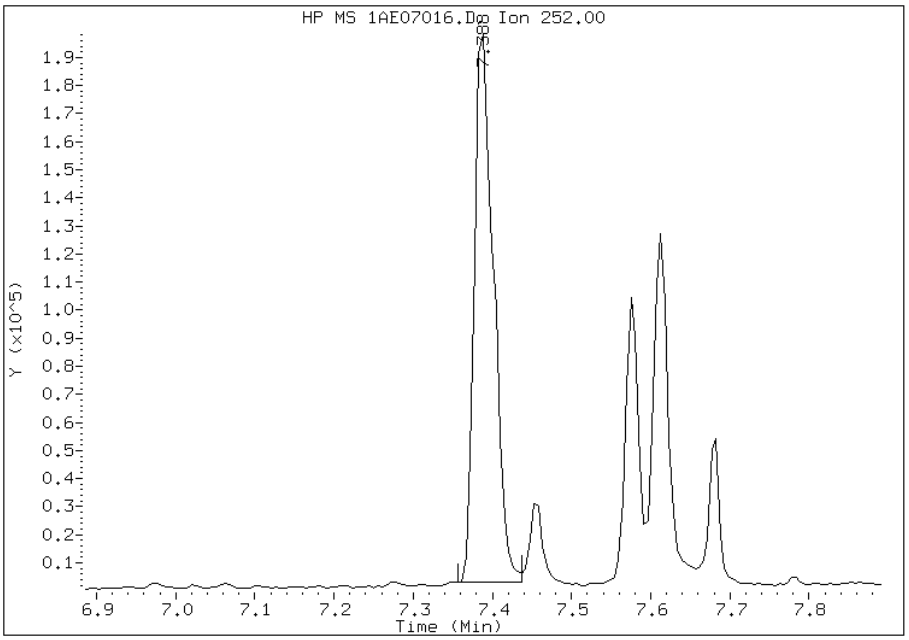
Processing Integration Results

RT: 7.39

Response: 325682

Amount: 8

Conc: 709



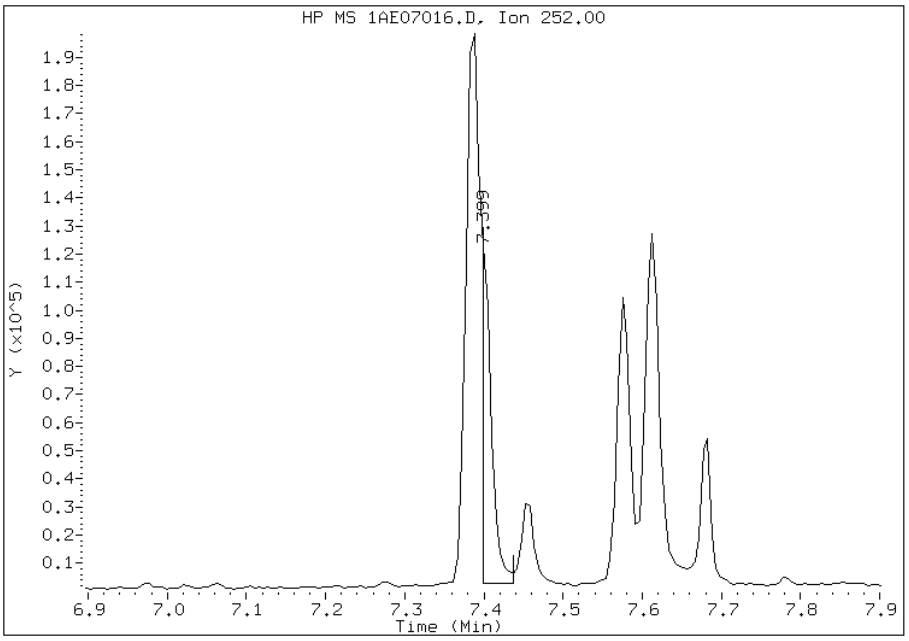
Manual Integration Results

RT: 7.40

Response: 101373

Amount: 3

Conc: 221



Manually Integrated By: cantins
Modification Date: 09-May-2013 12:03
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE07016.D
Inj. Date and Time: 07-MAY-2013 16:07
Instrument ID: BSMA5973.i
Client ID: CV1166B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

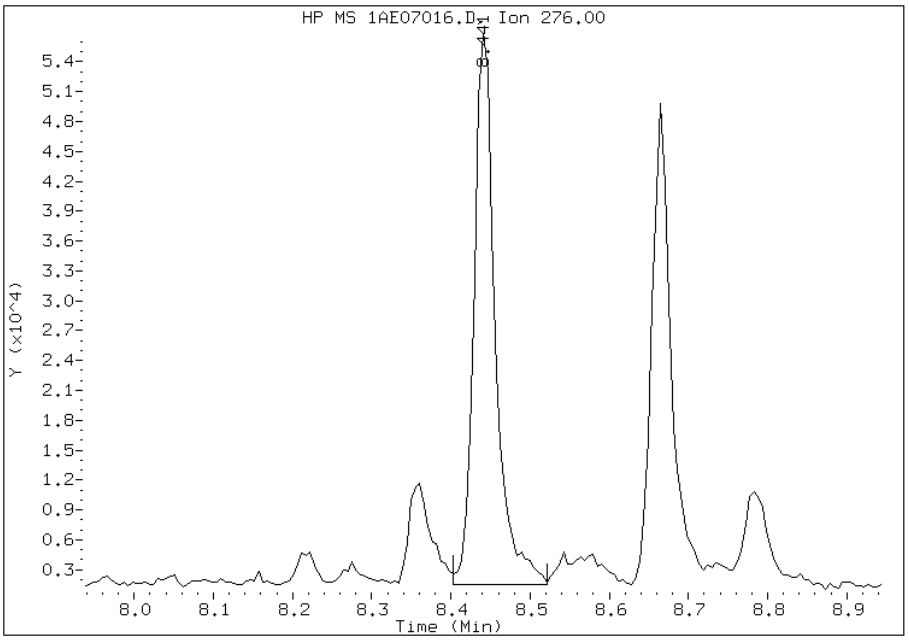
Processing Integration Results

RT: 8.44

Response: 102689

Amount: 4

Conc: 322



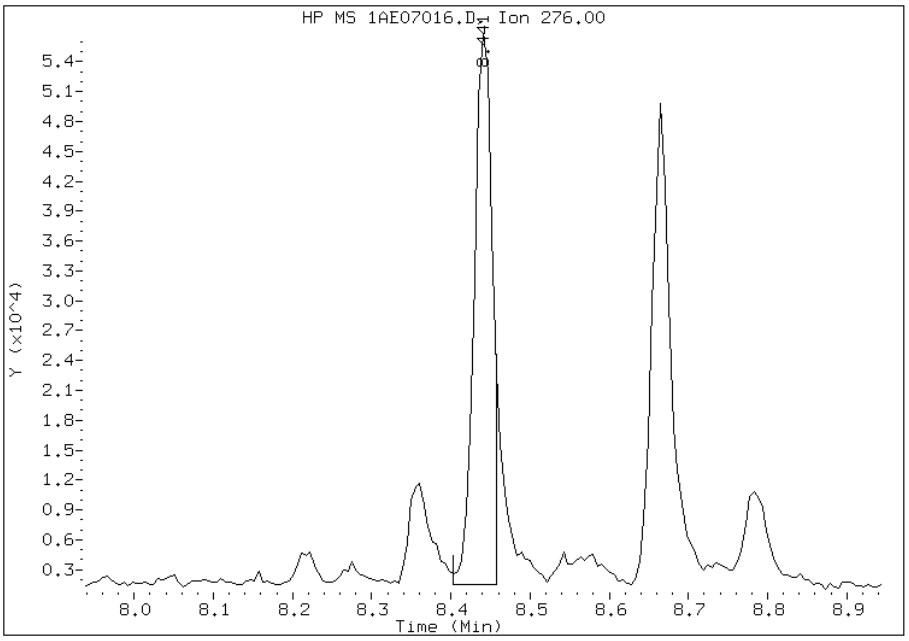
Manual Integration Results

RT: 8.44

Response: 86789

Amount: 3

Conc: 272



Manually Integrated By: cantins
Modification Date: 09-May-2013 12:04
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: CV1166B-CSD | Lab Sample ID: 680-89985-13

Matrix: Solid | Lab File ID: 1AE07017.D

Analysis Method: 8270C LL | Date Collected: 05/01/2013 12:50

Extract. Method: 3546 | Date Extracted: 05/06/2013 08:14

Sample wt/vol: 15.29(g) | Date Analyzed: 05/07/2013 16:22

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

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

% Moisture: 20.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137194 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	32	J	49	6.1
120-12-7	Anthracene	54		10	5.2
56-55-3	Benzo[a]anthracene	180		9.8	4.8
50-32-8	Benzo[a]pyrene	150		13	6.4
205-99-2	Benzo[b]fluoranthene	250		15	7.5
191-24-2	Benzo[g,h,i]perylene	95		25	5.4
207-08-9	Benzo[k]fluoranthene	95		9.8	4.4
218-01-9	Chrysene	200		11	5.5
53-70-3	Dibenz(a,h)anthracene	33		25	5.0
206-44-0	Fluoranthene	250		25	4.9
86-73-7	Fluorene	12	J	25	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	82		25	8.7
90-12-0	1-Methylnaphthalene	90		49	5.4
91-57-6	2-Methylnaphthalene	120		49	8.7
91-20-3	Naphthalene	88		49	5.4
85-01-8	Phenanthrene	190		9.8	4.8
129-00-0	Pyrene	190		25	4.5

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\1A050713.b\1AE07017.D
Lab Smp Id: 680-89985-A-13-A Client Smp ID: CV1166B-CSD
Inj Date : 07-MAY-2013 16:22
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89985-a-13-a
Misc Info : 680-89985-A-13-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\a-bFASTPAHi-m.m
Meth Date : 07-May-2013 13:04 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.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	15.290	Weight Extracted
M	20.000	% 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	2.544	(1.000)	1250512	40.0000	
* 6 Acenaphthene-d10	164	3.582	3.575	(1.000)	674054	40.0000	
* 10 Phenanthrene-d10	188	4.539	4.526	(1.000)	940872	40.0000	
$ 14 o-Terphenyl	230	4.832	4.820	(1.065)	74584	5.53872	452.8056
* 18 Chrysene-d12	240	6.574	6.545	(1.000)	1087372	40.0000	
* 23 Perylene-d12	264	7.669	7.630	(1.000)	1136183	40.0000	
2 Naphthalene	128	2.567	2.555	(1.004)	31631	1.07411	87.8116
3 2-Methylnaphthalene	141	2.968	2.961	(1.161)	22320	1.49136	121.9231
4 1-Methylnaphthalene	142	3.027	3.014	(1.184)	19777	1.10248	90.1310
5 Acenaphthylene	152	3.497	3.484	(0.976)	12353	0.39002	31.8848
9 Fluorene	166	3.914	3.906	(1.092)	3120	0.15052	12.3051(Q)
11 Phenanthrene	178	4.549	4.537	(1.002)	53049	2.27587	186.0585
12 Anthracene	178	4.587	4.574	(1.011)	16520	0.66533	54.3924
13 Carbazole	167	4.726	4.707	(1.041)	8129	0.36412	29.7680

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.420	5.402	(1.194)	82543	3.07820	251.6513
16 Pyrene	202	5.586	5.568	(0.850)	79441	2.27284	185.8111
17 Benzo(a)anthracene	228	6.563	6.529	(0.998)	66593	2.17910	178.1476
19 Chrysene	228	6.585	6.561	(1.002)	84425	2.45534	200.7307
20 Benzo(b)fluoranthene	252	7.386	7.352	(0.963)	91246	3.03837	248.3952(M)
21 Benzo(k)fluoranthene	252	7.397	7.373	(0.964)	43223	1.16015	94.8456(M)
22 Benzo(a)pyrene	252	7.610	7.576	(0.992)	56823	1.84240	150.6209
24 Indeno(1,2,3-cd)pyrene	276	8.438	8.388	(1.100)	26059	1.00857	82.4530(M)
25 Dibenzo(a,h)anthracene	278	8.454	8.410	(1.102)	10782	0.40710	33.2812
26 Benzo(g,h,i)perylene	276	8.663	8.602	(1.130)	32140	1.15676	94.5686

QC Flag Legend

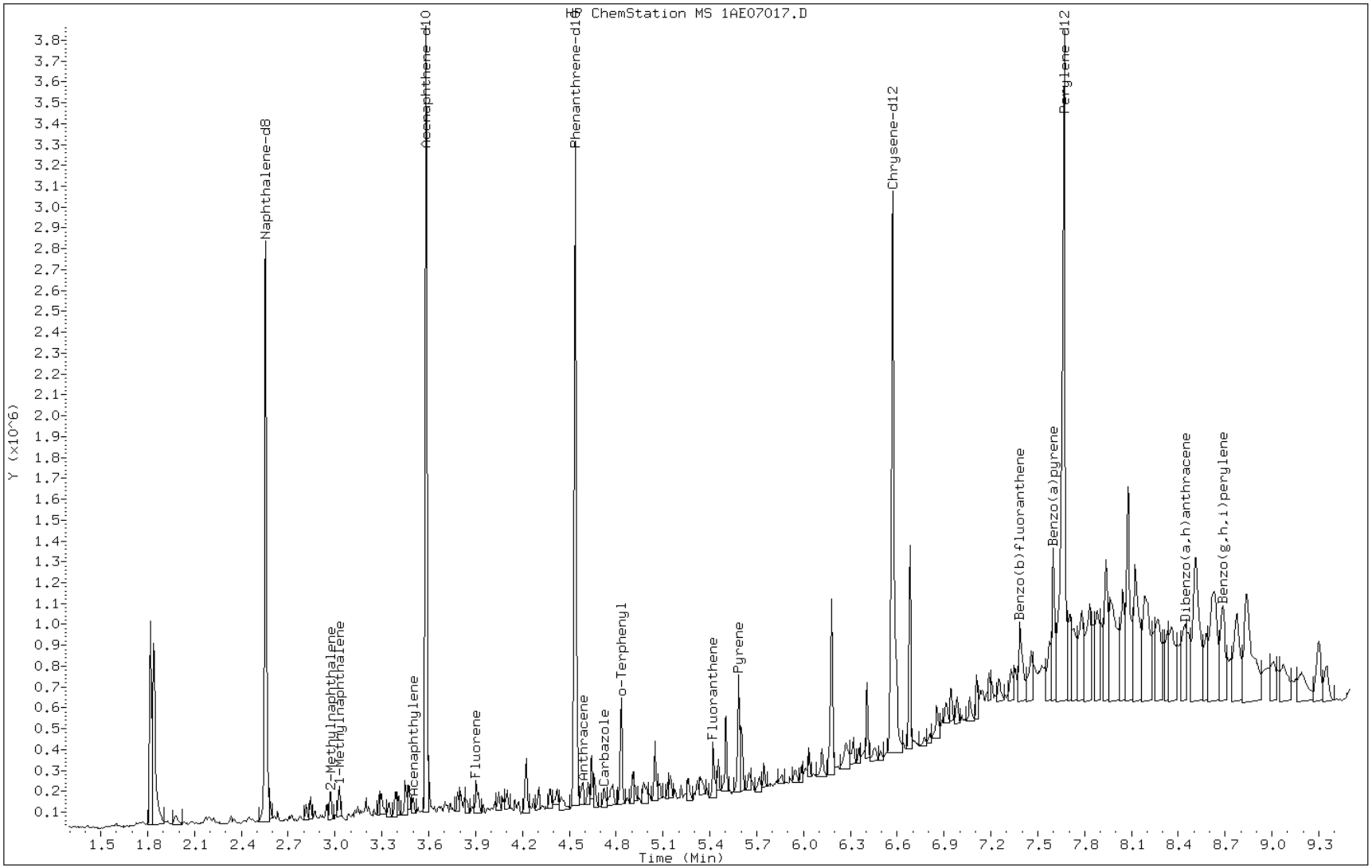
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE07017.D

Date: 07-MAY-2013 16:22

Client ID: CV1166B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-13-a Operator: SCC



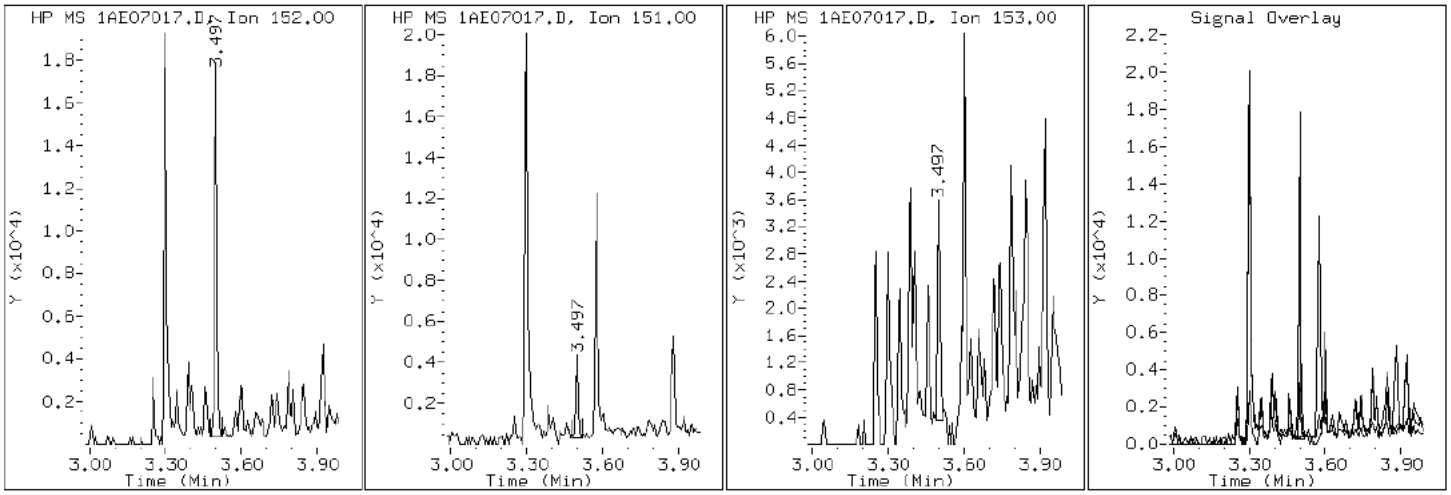
Data File: 1AE07017.D

Date: 07-MAY-2013 16:22

Client ID: CV1166B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-13-a Operator: SCC

5 Acenaphthylene



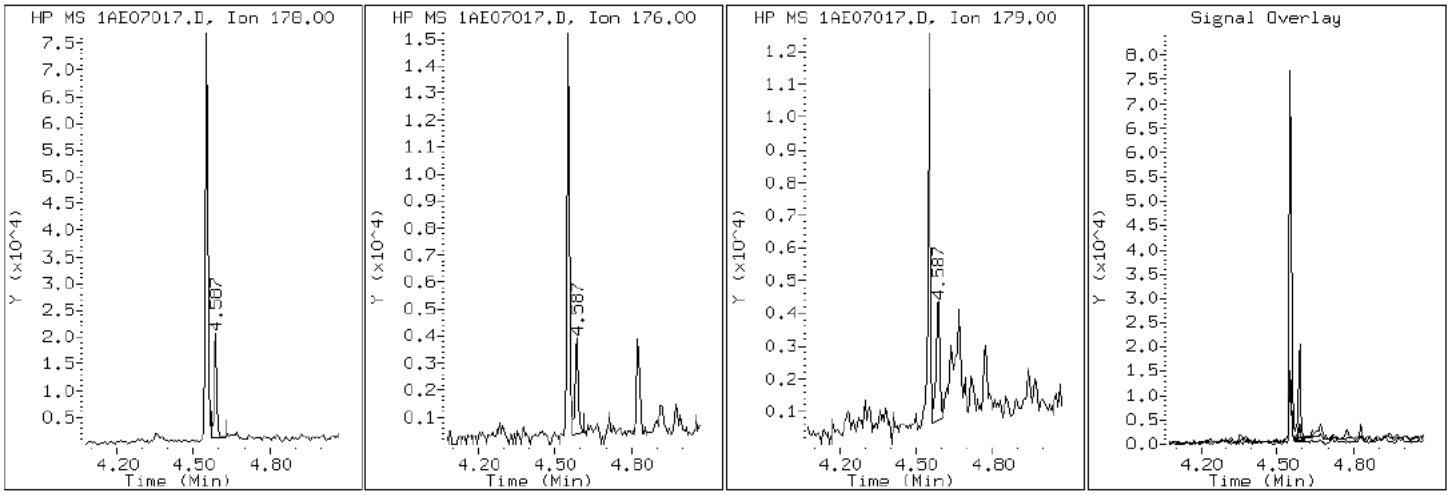
Data File: 1AE07017.D

Date: 07-MAY-2013 16:22

Client ID: CV1166B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-13-a Operator: SCC

12 Anthracene



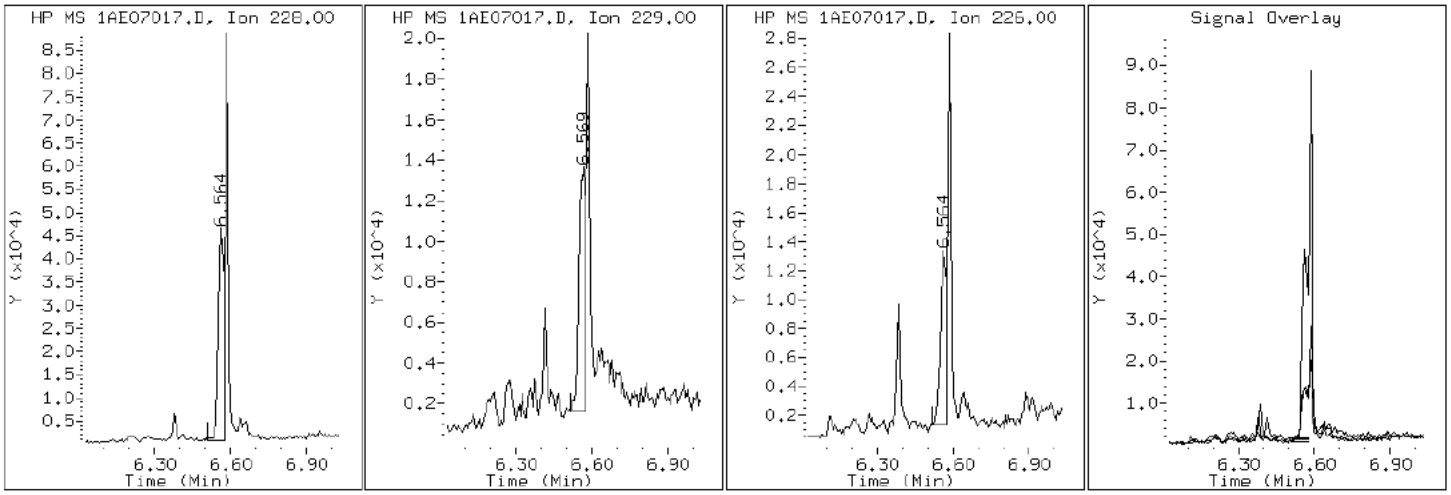
Data File: 1AE07017.D

Date: 07-MAY-2013 16:22

Client ID: CV1166B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-13-a Operator: SCC

17 Benzo(a)anthracene



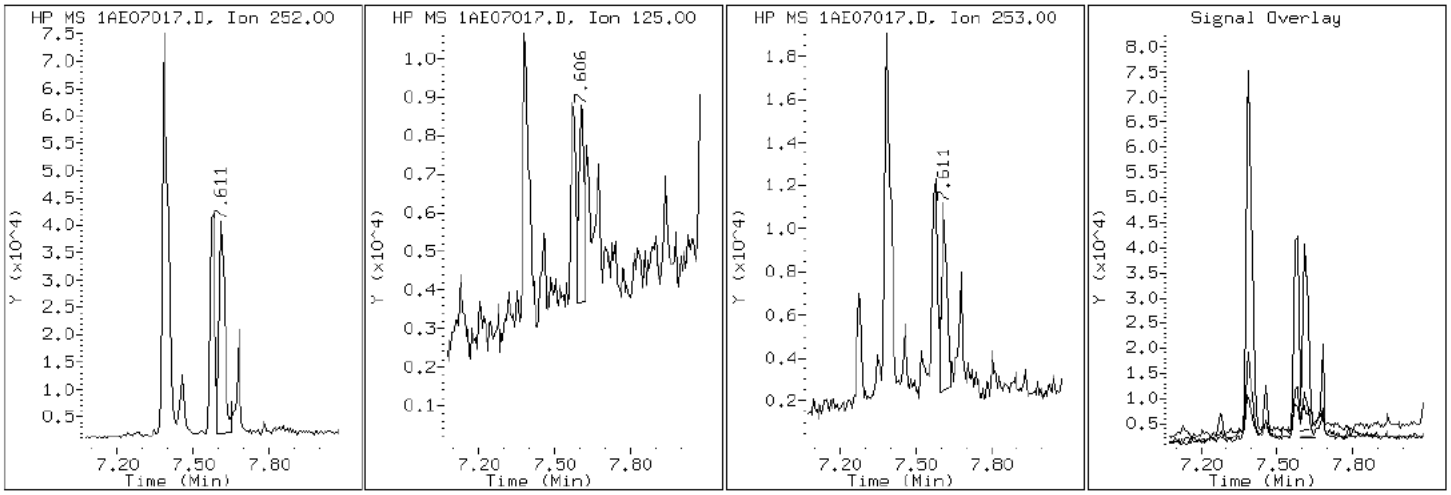
Data File: 1AE07017.D

Date: 07-MAY-2013 16:22

Client ID: CV1166B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-13-a Operator: SCC

22 Benzo(a)pyrene



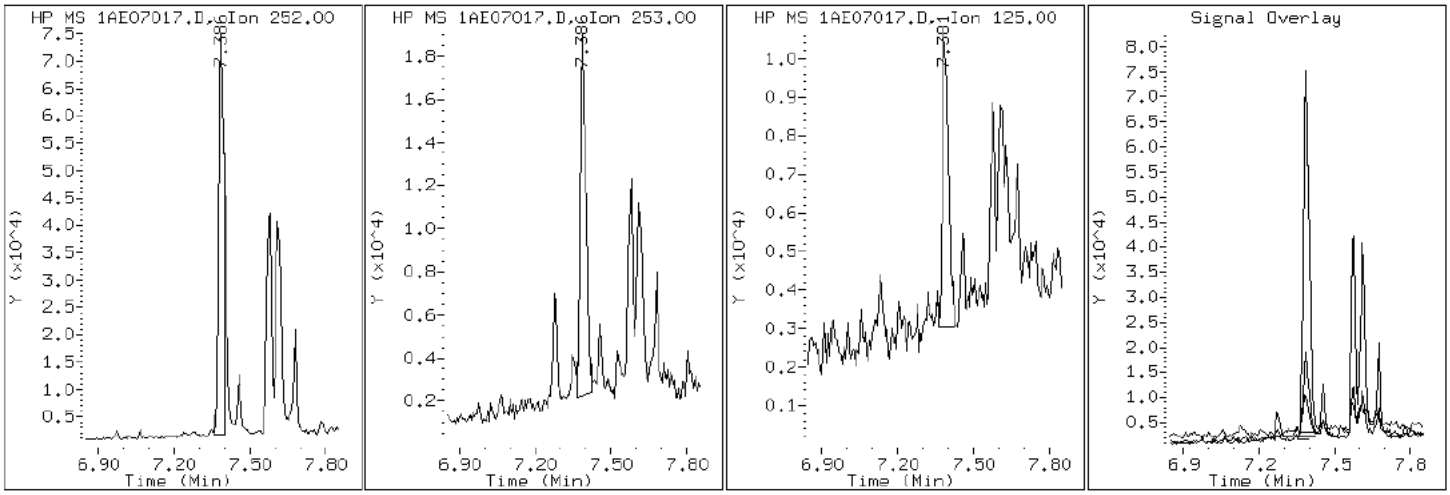
Data File: 1AE07017.D

Date: 07-MAY-2013 16:22

Client ID: CV1166B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-13-a Operator: SCC

20 Benzo(b)fluoranthene



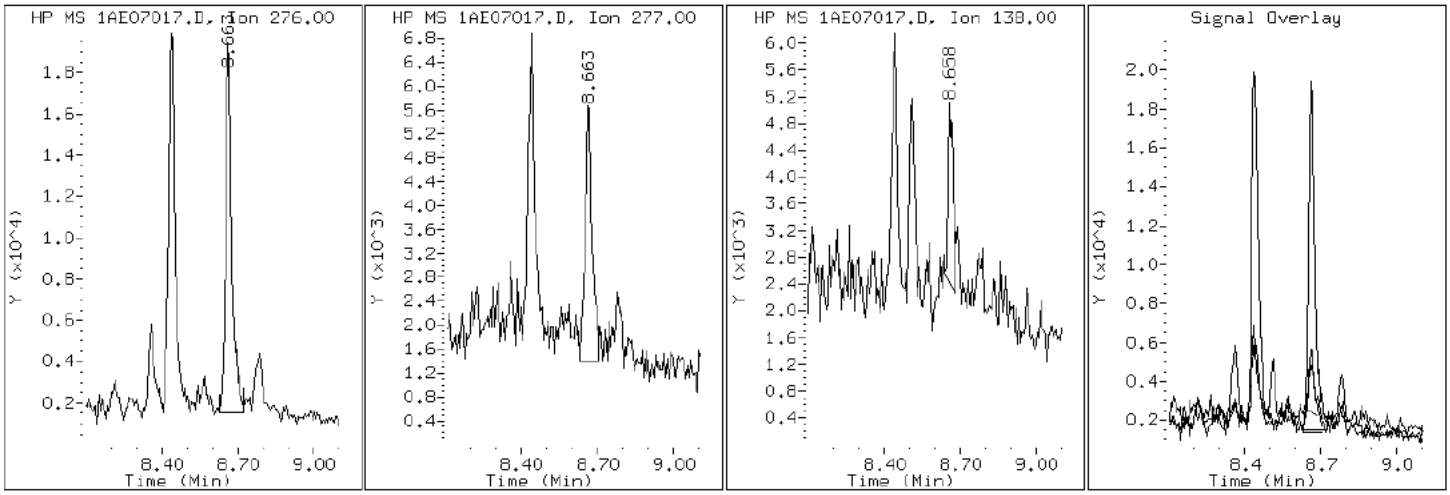
Data File: 1AE07017.D

Date: 07-MAY-2013 16:22

Client ID: CV1166B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-13-a Operator: SCC

26 Benzo(g,h,i)perylene



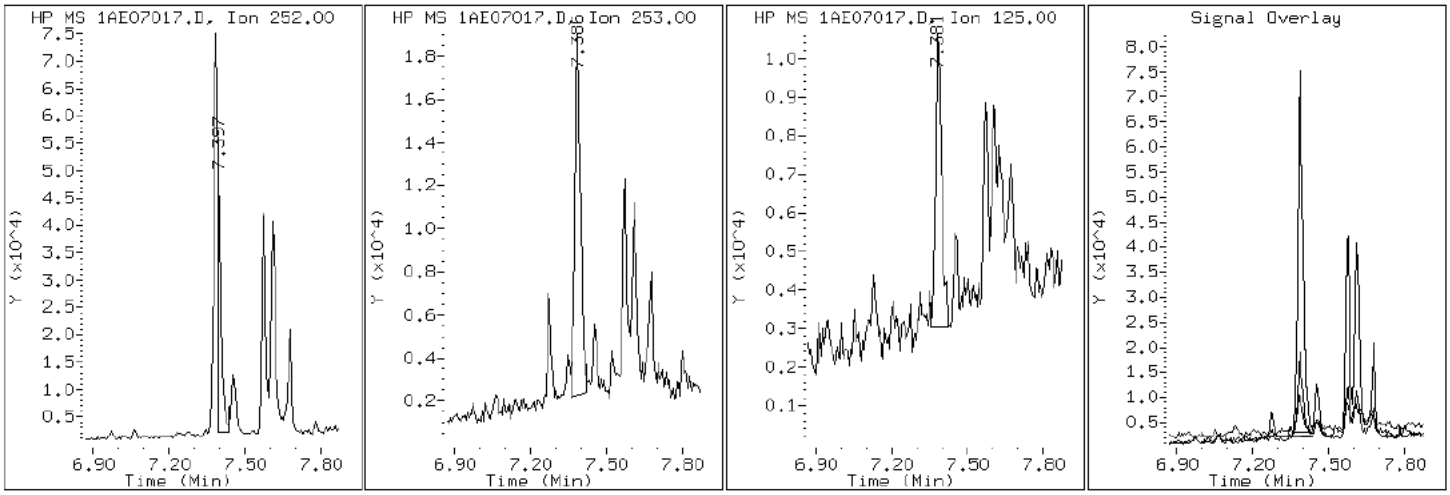
Data File: 1AE07017.D

Date: 07-MAY-2013 16:22

Client ID: CV1166B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-13-a Operator: SCC

21 Benzo(k)fluoranthene



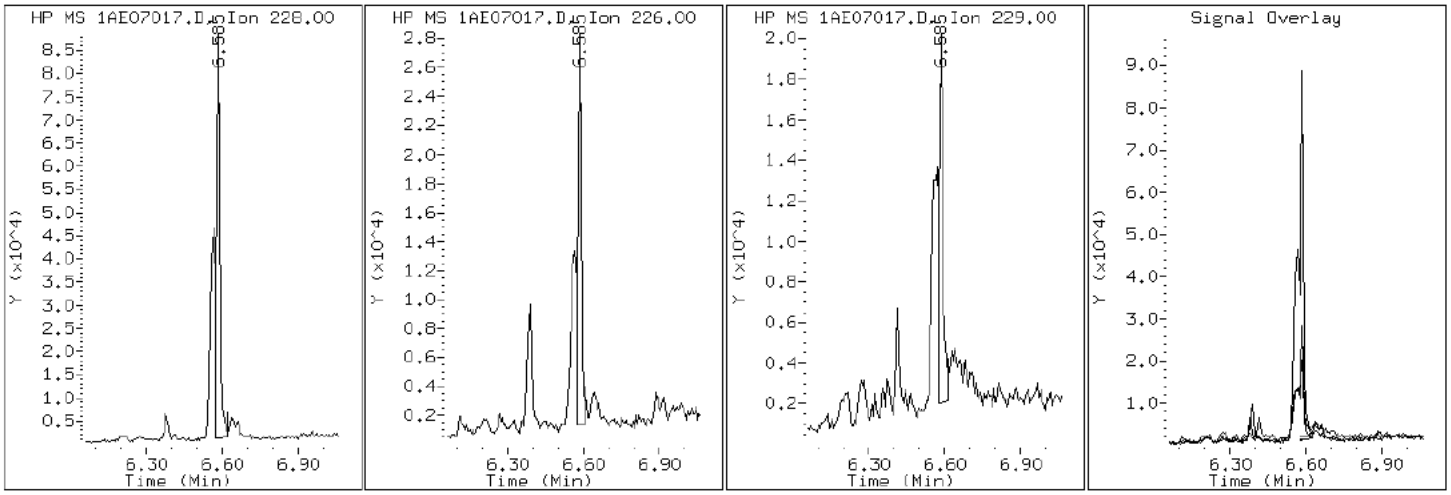
Data File: 1AE07017.D

Date: 07-MAY-2013 16:22

Client ID: CV1166B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-13-a Operator: SCC

19 Chrysene



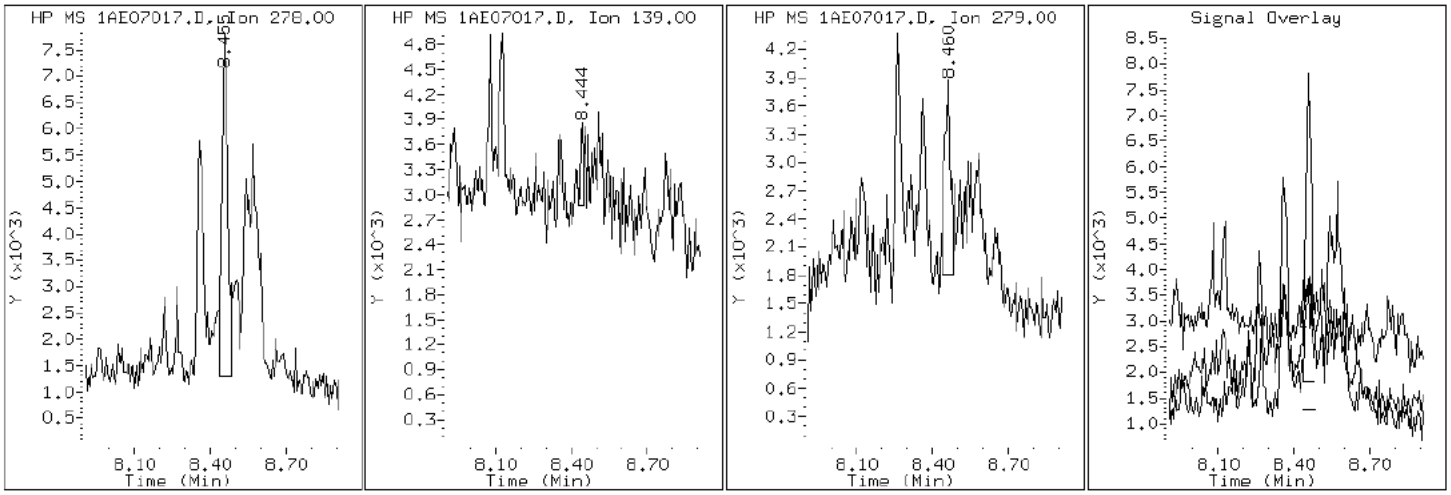
Data File: 1AE07017.D

Date: 07-MAY-2013 16:22

Client ID: CV1166B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-13-a Operator: SCC

25 Dibenzo(a,h)anthracene



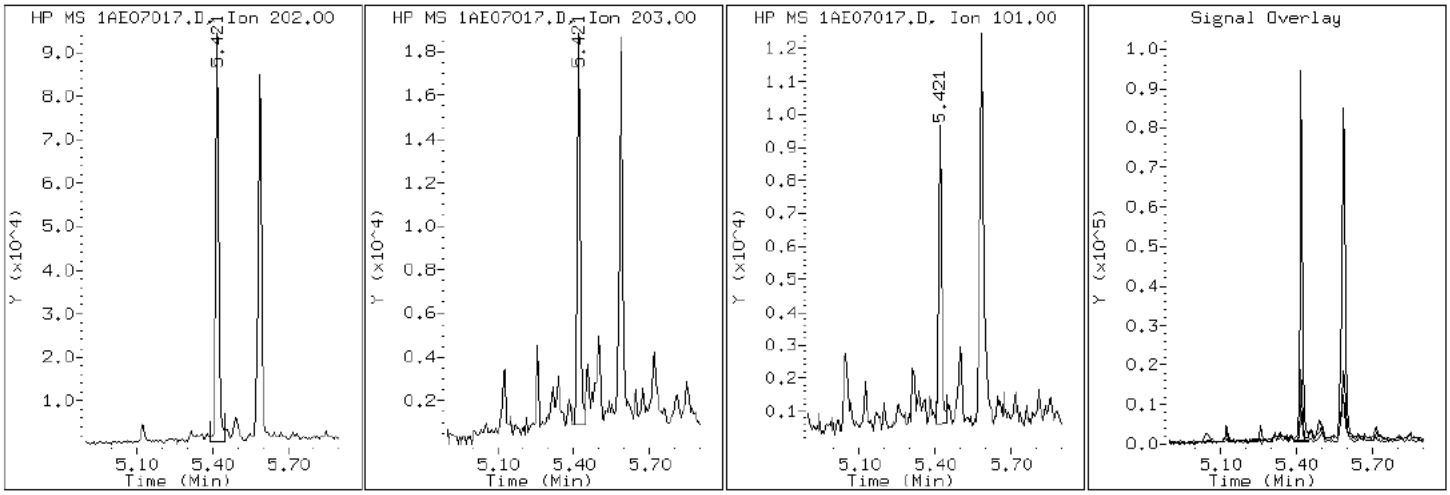
Data File: 1AE07017.D

Date: 07-MAY-2013 16:22

Client ID: CV1166B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-13-a Operator: SCC

15 Fluoranthene



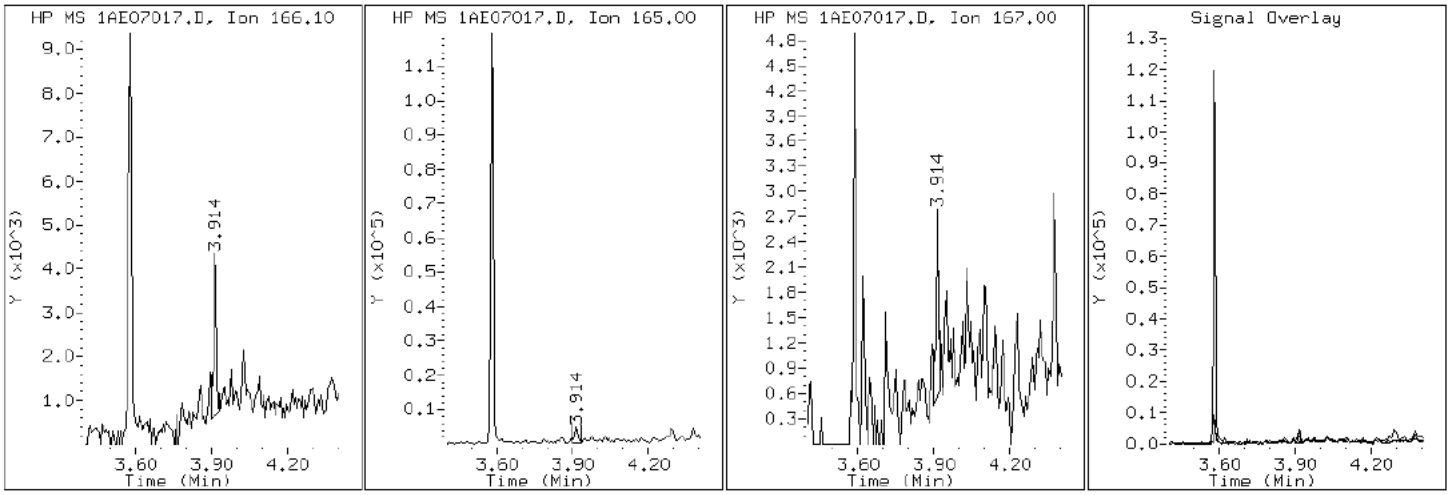
Data File: 1AE07017.D

Date: 07-MAY-2013 16:22

Client ID: CV1166B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-13-a Operator: SCC

9 Fluorene



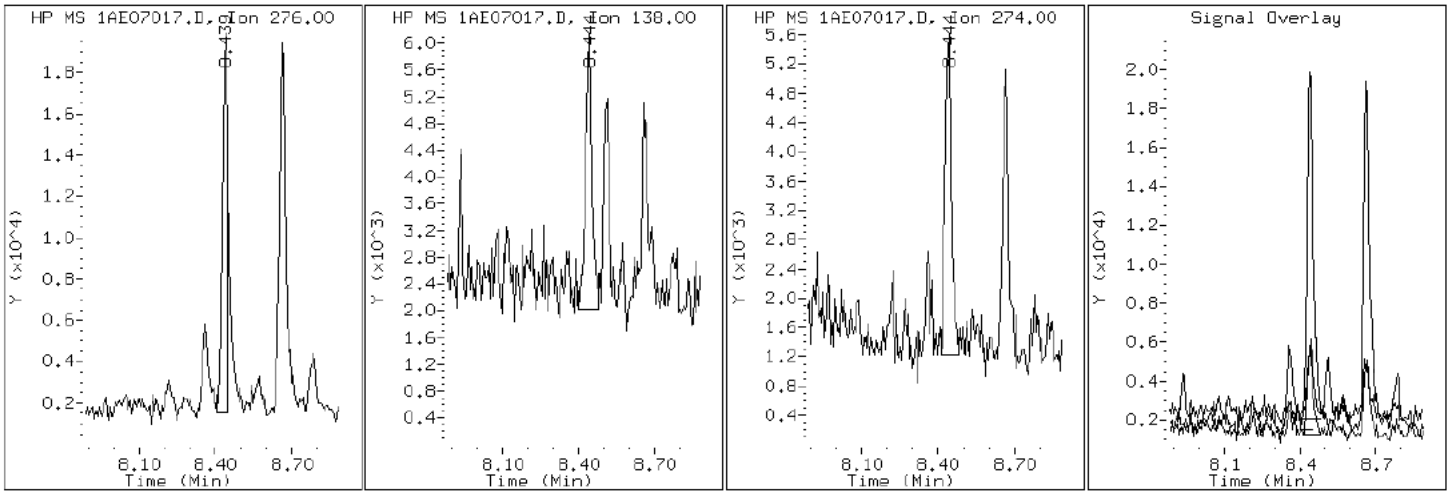
Data File: 1AE07017.D

Date: 07-MAY-2013 16:22

Client ID: CV1166B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-13-a Operator: SCC

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



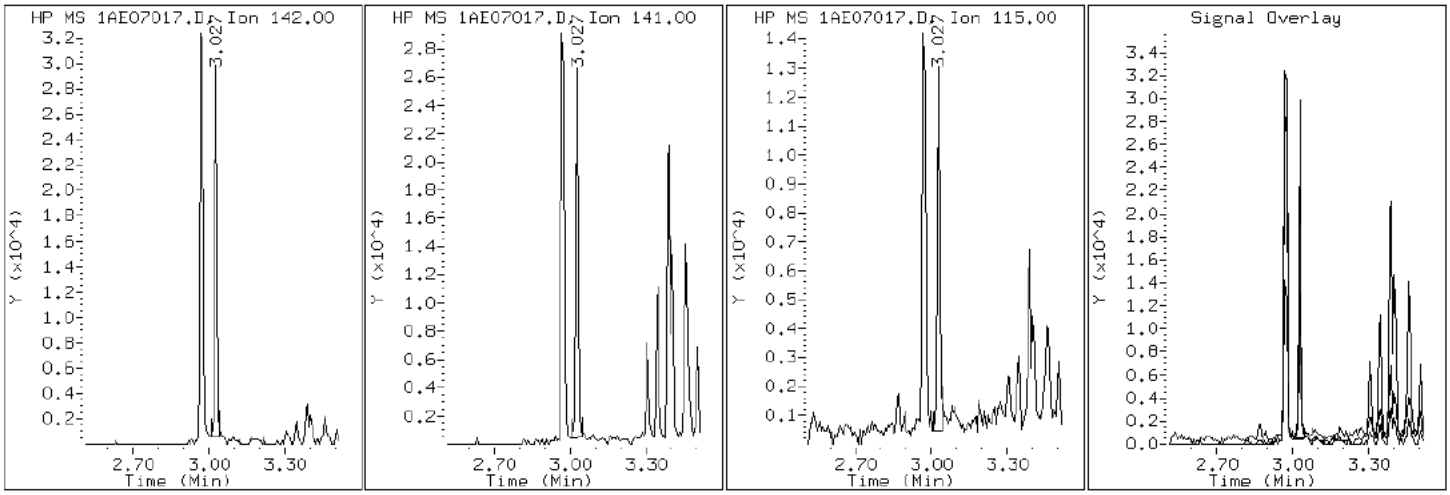
Data File: 1AE07017.D

Date: 07-MAY-2013 16:22

Client ID: CV1166B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-13-a Operator: SCC

4 1-Methylnaphthalene



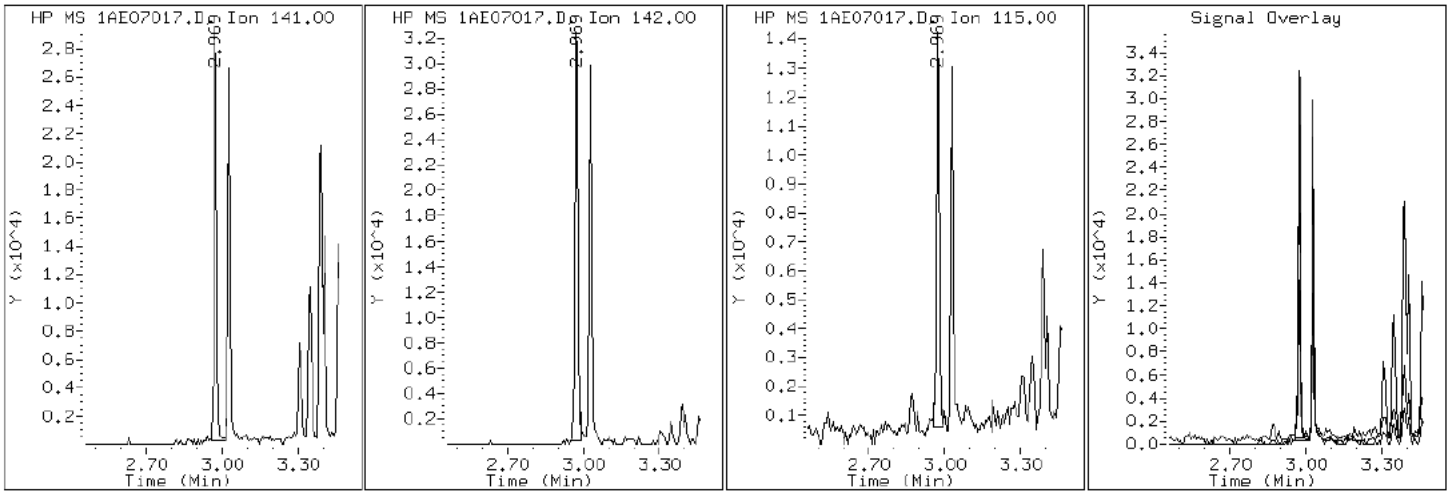
Data File: 1AE07017.D

Date: 07-MAY-2013 16:22

Client ID: CV1166B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-13-a Operator: SCC

3 2-Methylnaphthalene



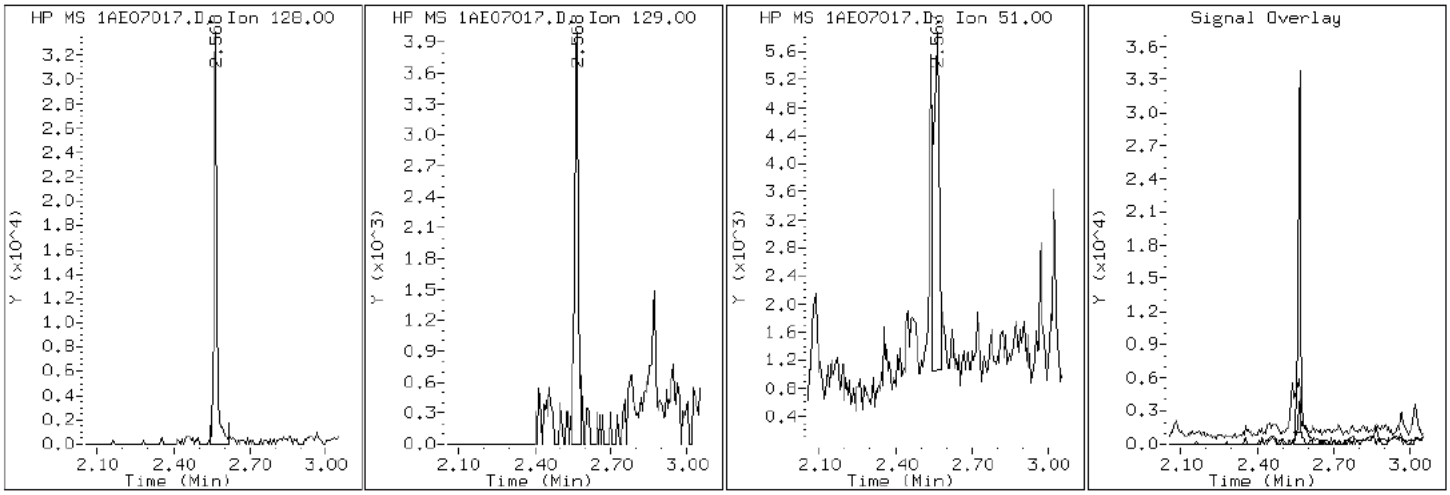
Data File: 1AE07017.D

Date: 07-MAY-2013 16:22

Client ID: CV1166B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-13-a Operator: SCC

2 Naphthalene



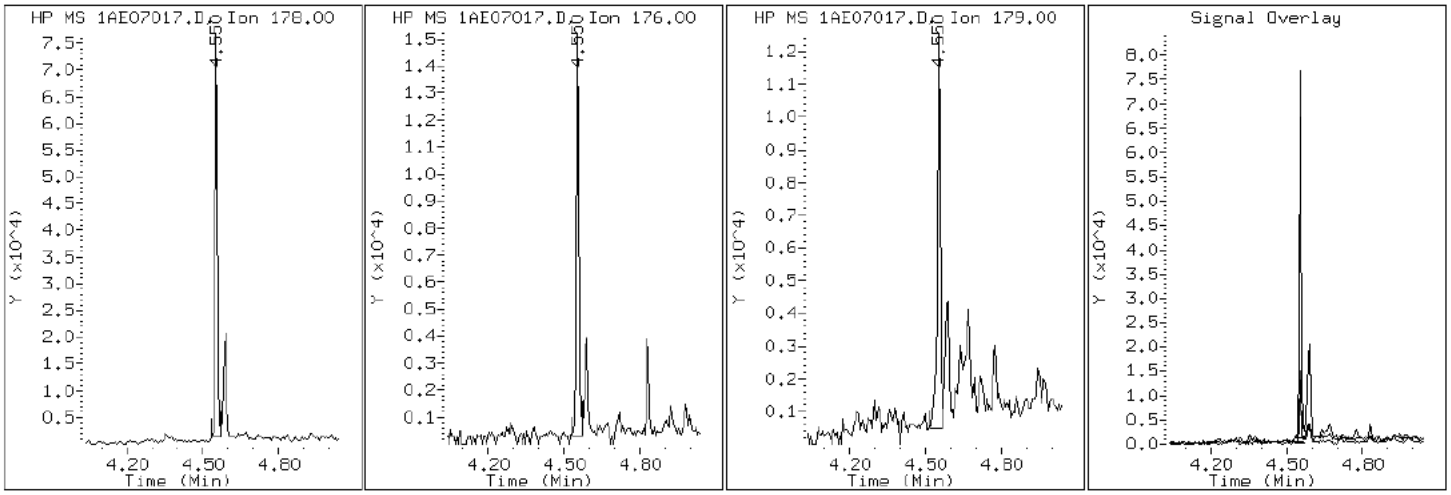
Data File: 1AE07017.D

Date: 07-MAY-2013 16:22

Client ID: CV1166B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-13-a Operator: SCC

11 Phenanthrene



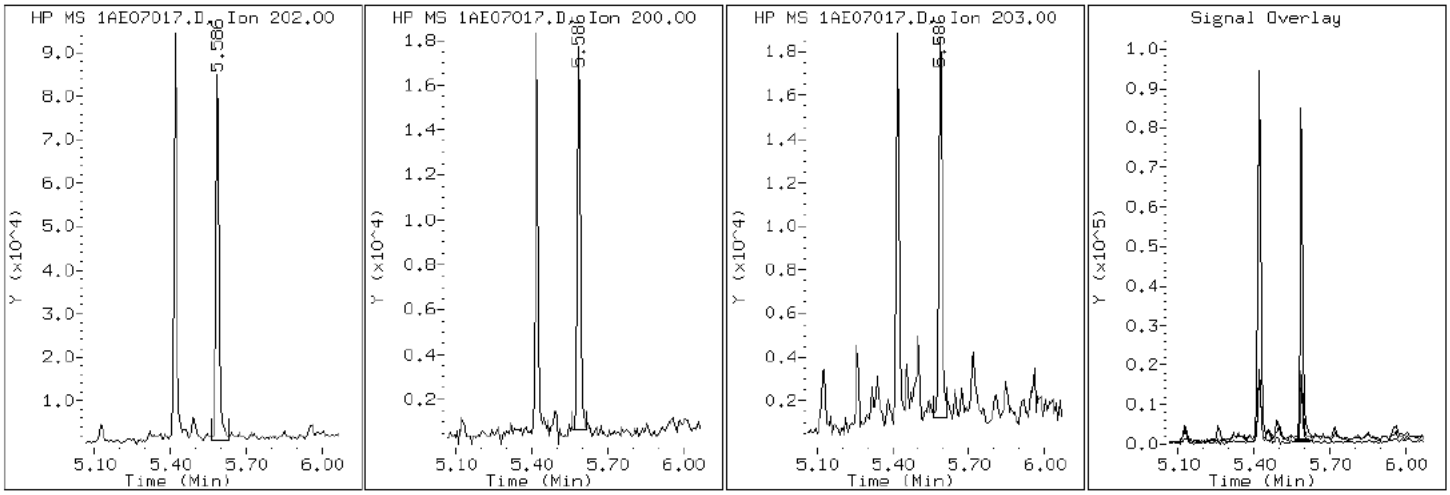
Data File: 1AE07017.D

Date: 07-MAY-2013 16:22

Client ID: CV1166B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-13-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE07017.D
Inj. Date and Time: 07-MAY-2013 16:22
Instrument ID: BSMA5973.i
Client ID: CV1166B-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

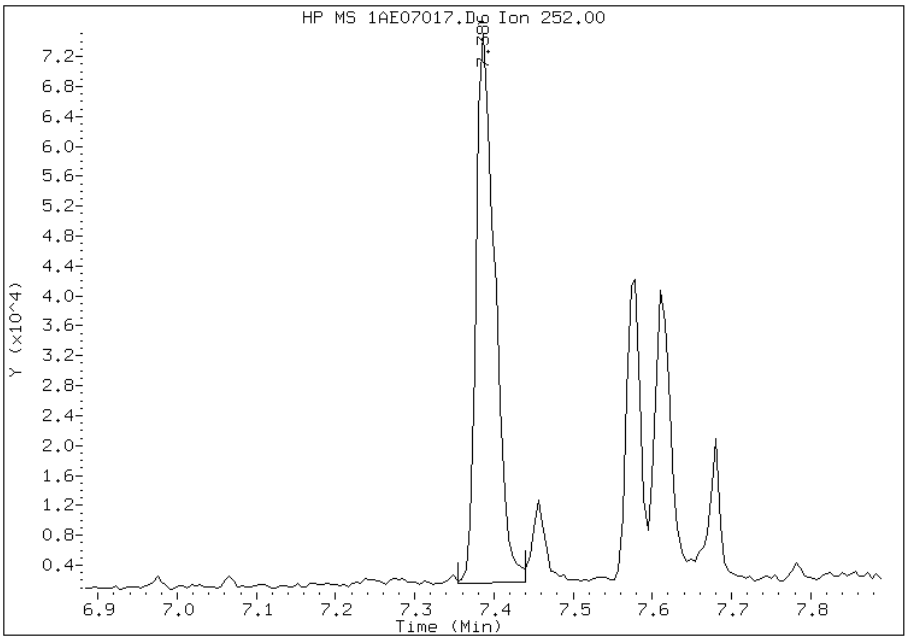
Processing Integration Results

RT: 7.39

Response: 120089

Amount: 4

Conc: 327



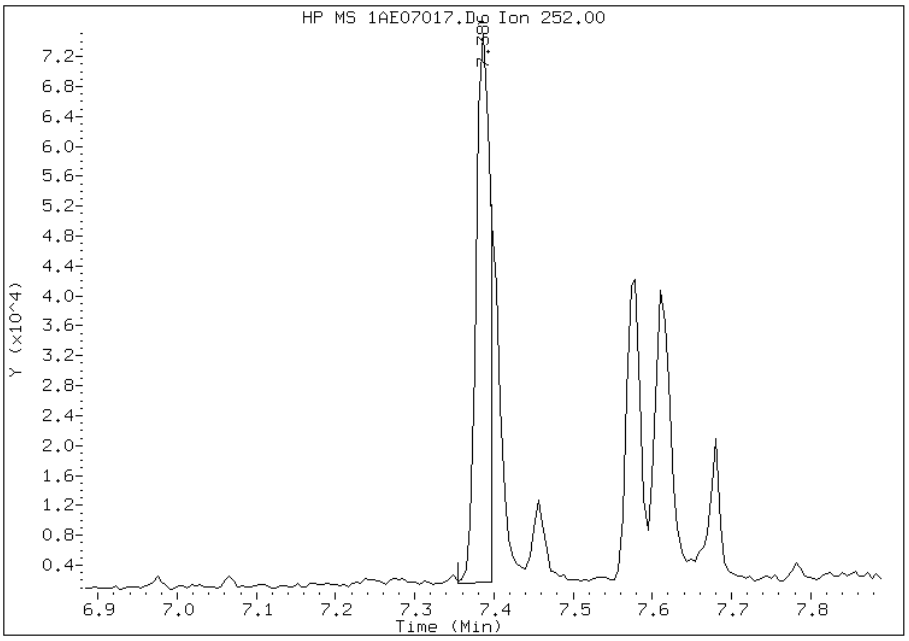
Manual Integration Results

RT: 7.39

Response: 91246

Amount: 3

Conc: 248



Manually Integrated By: cantins
Modification Date: 09-May-2013 12:19
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE07017.D
Inj. Date and Time: 07-MAY-2013 16:22
Instrument ID: BSMA5973.i
Client ID: CV1166B-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

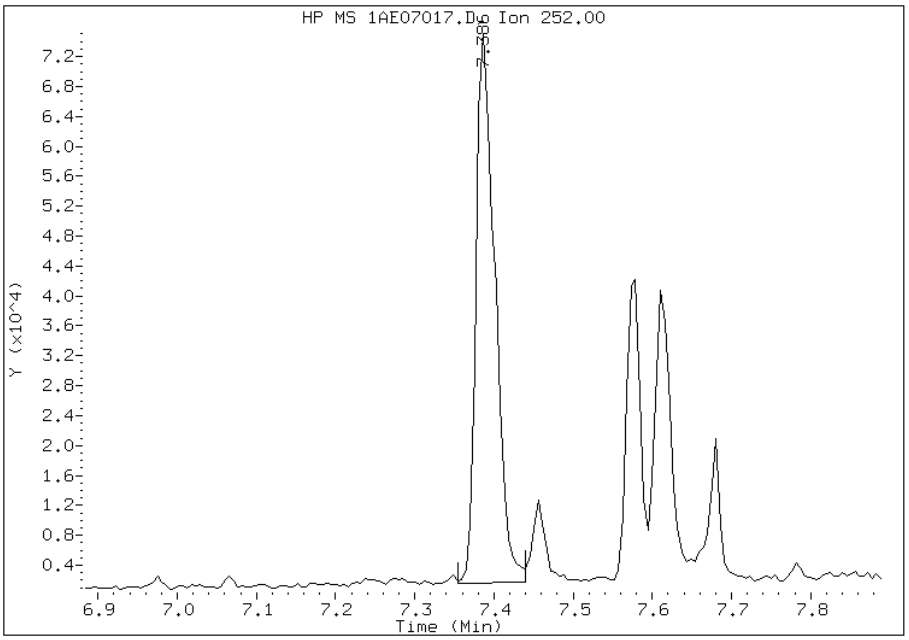
Processing Integration Results

RT: 7.39

Response: 120089

Amount: 3

Conc: 264



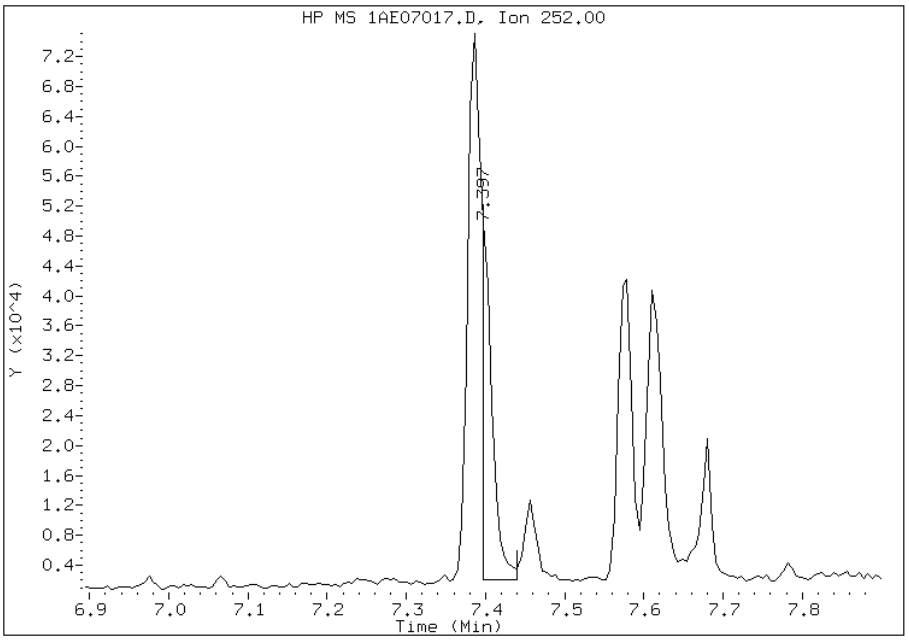
Manual Integration Results

RT: 7.40

Response: 43223

Amount: 1

Conc: 95



Manually Integrated By: cantins
Modification Date: 09-May-2013 12:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE07017.D
Inj. Date and Time: 07-MAY-2013 16:22
Instrument ID: BSMA5973.i
Client ID: CV1166B-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

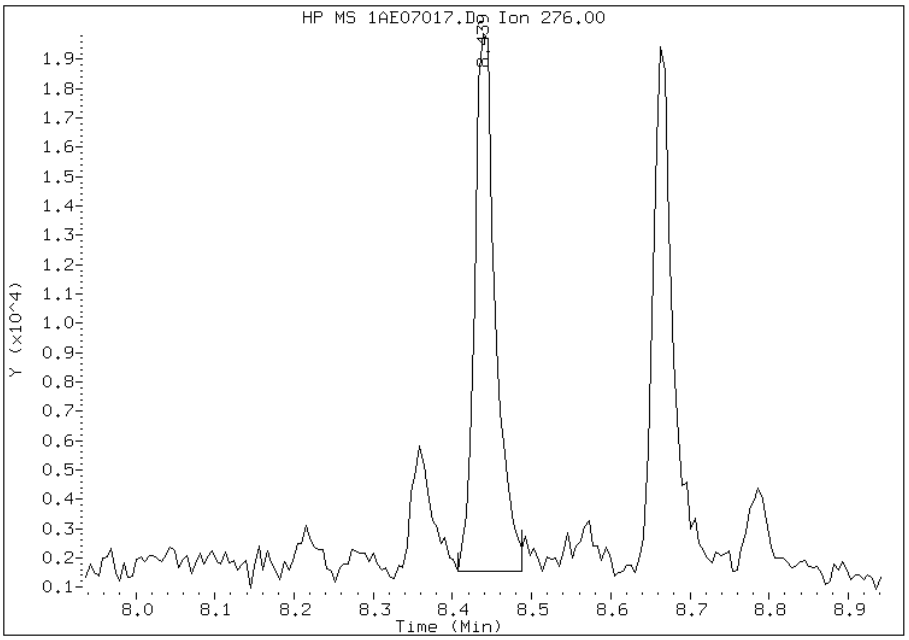
Processing Integration Results

RT: 8.44

Response: 33665

Amount: 1

Conc: 107



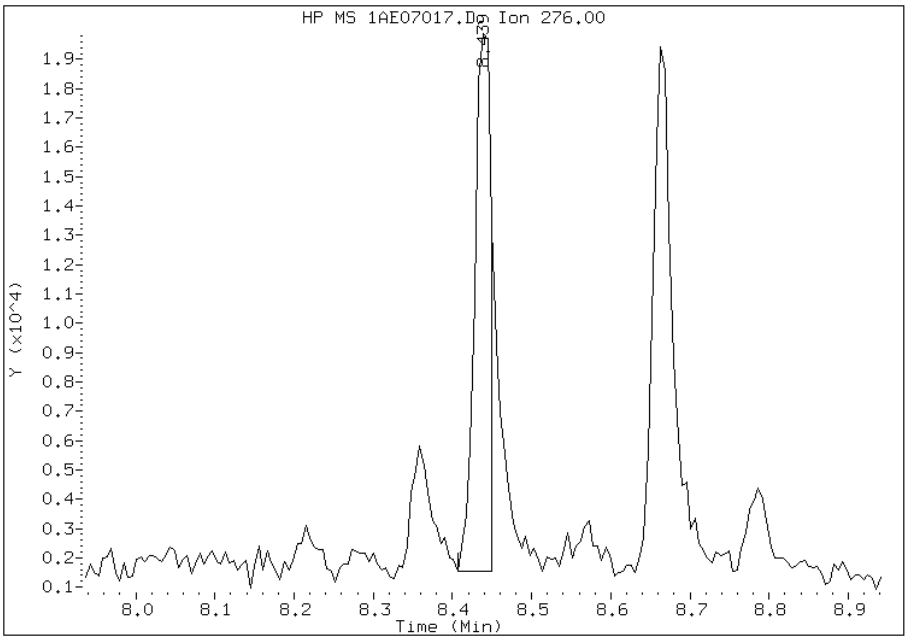
Manual Integration Results

RT: 8.44

Response: 26059

Amount: 1

Conc: 82



Manually Integrated By: cantins
Modification Date: 09-May-2013 12:19
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: CV1177A-CS | Lab Sample ID: 680-89985-14

Matrix: Solid | Lab File ID: 1AE07018.D

Analysis Method: 8270C LL | Date Collected: 05/01/2013 14:00

Extract. Method: 3546 | Date Extracted: 05/06/2013 08:14

Sample wt/vol: 15.14(g) | Date Analyzed: 05/07/2013 16:37

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

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

% Moisture: 17.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137194 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	60		48	6.0
120-12-7	Anthracene	56		10	5.0
56-55-3	Benzo[a]anthracene	250		9.6	4.7
50-32-8	Benzo[a]pyrene	210		12	6.2
205-99-2	Benzo[b]fluoranthene	310		15	7.3
191-24-2	Benzo[g,h,i]perylene	120		24	5.3
207-08-9	Benzo[k]fluoranthene	130		9.6	4.3
218-01-9	Chrysene	280		11	5.4
53-70-3	Dibenz(a,h)anthracene	34		24	4.9
206-44-0	Fluoranthene	410		24	4.8
86-73-7	Fluorene	18	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	110		24	8.5
90-12-0	1-Methylnaphthalene	75		48	5.3
91-57-6	2-Methylnaphthalene	100		48	8.5
91-20-3	Naphthalene	70		48	5.3
85-01-8	Phenanthrene	210		9.6	4.7
129-00-0	Pyrene	310		24	4.4

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\1A050713.b\1AE07018.D
Lab Smp Id: 680-89985-A-14-A Client Smp ID: CV1177A-CS
Inj Date : 07-MAY-2013 16:37
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89985-a-14-a
Misc Info : 680-89985-A-14-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\a-bFASTPAHi-m.m
Meth Date : 07-May-2013 13:04 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.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	15.140	Weight Extracted
M	17.000	% 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	2.555	2.544	(1.000)	1222054	40.0000	
* 6 Acenaphthene-d10	164	3.586	3.575	(1.000)	653620	40.0000	
* 10 Phenanthrene-d10	188	4.542	4.526	(1.000)	948870	40.0000	
$ 14 o-Terphenyl	230	4.831	4.820	(1.064)	75164	5.53474	440.4467
* 18 Chrysene-d12	240	6.572	6.545	(1.000)	1007824	40.0000	(H)
* 23 Perylene-d12	264	7.667	7.630	(1.000)	1069746	40.0000	
2 Naphthalene	128	2.566	2.555	(1.004)	25160	0.87427	69.5730
3 2-Methylnaphthalene	141	2.972	2.961	(1.163)	18393	1.25759	100.0773
4 1-Methylnaphthalene	142	3.025	3.014	(1.184)	16419	0.93660	74.5335
5 Acenaphthylene	152	3.495	3.484	(0.975)	22959	0.74754	59.4877
9 Fluorene	166	3.917	3.906	(1.092)	4470	0.22238	17.6970
11 Phenanthrene	178	4.553	4.537	(1.002)	62985	2.67936	213.2195
12 Anthracene	178	4.585	4.574	(1.009)	17545	0.70065	55.7570
13 Carbazole	167	4.729	4.707	(1.041)	9042	0.40160	31.9591

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	5.424	5.402	(1.194)	137411	5.08115	404.3503
16 Pyrene	202	5.589	5.568	(0.850)	126769	3.91319	311.4060(H)
17 Benzo(a)anthracene	228	6.567	6.529	(0.999)	87621	3.09350	246.1765(H)
19 Chrysene	228	6.583	6.561	(1.002)	110031	3.45262	274.7544(H)
20 Benzo(b)fluoranthene	252	7.384	7.352	(0.963)	109228	3.86303	307.4146(M)
21 Benzo(k)fluoranthene	252	7.395	7.373	(0.964)	57055	1.62653	129.4367(QM)
22 Benzo(a)pyrene	252	7.614	7.576	(0.993)	75379	2.59583	206.5725
24 Indeno(1,2,3-cd)pyrene	276	8.431	8.388	(1.100)	34070	1.40051	111.4505(M)
25 Dibenzo(a,h)anthracene	278	8.453	8.410	(1.102)	10754	0.43126	34.3187
26 Benzo(g,h,i)perylene	276	8.656	8.602	(1.129)	37877	1.44791	115.2226

QC Flag Legend

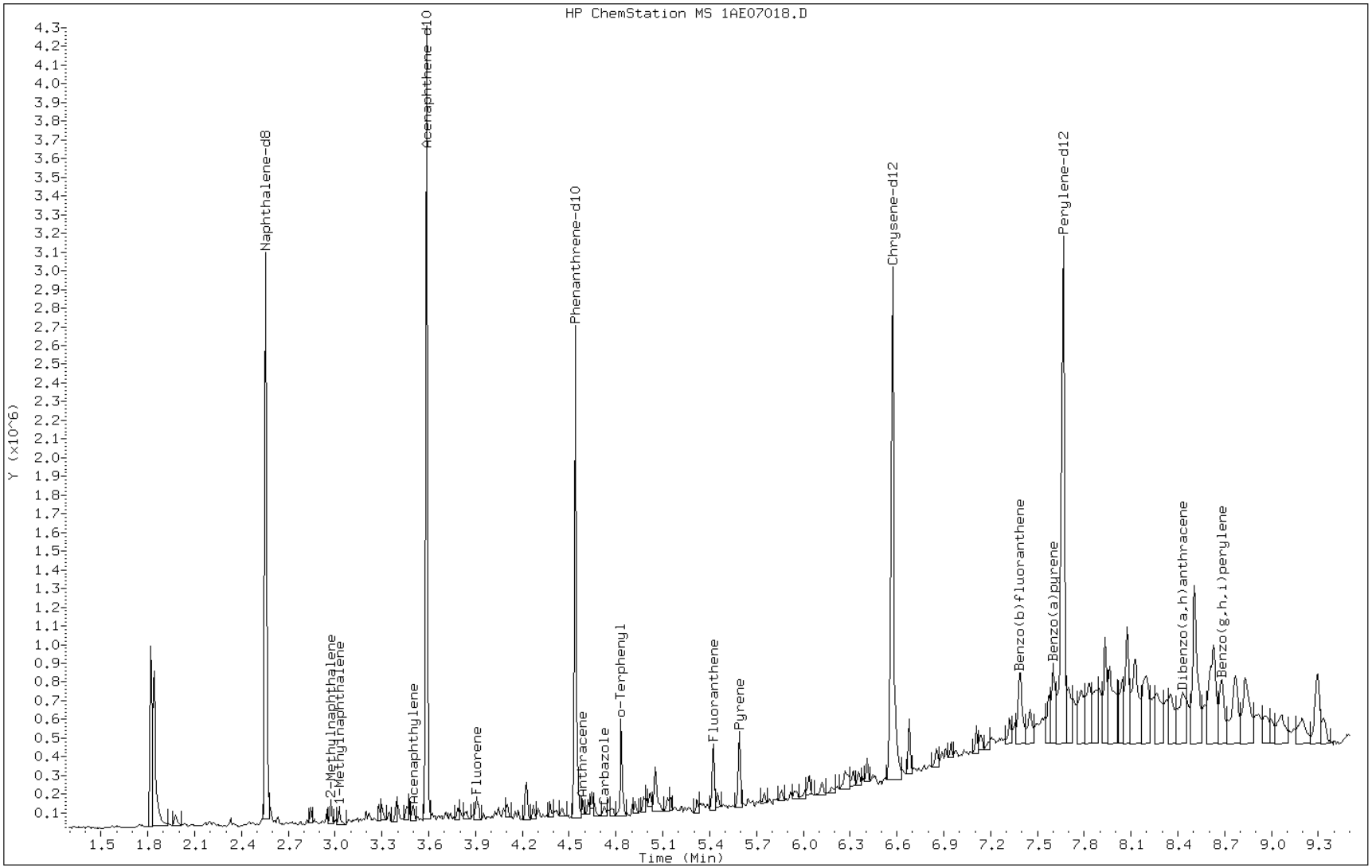
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AE07018.D

Date: 07-MAY-2013 16:37

Client ID: CV1177A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-14-a Operator: SCC



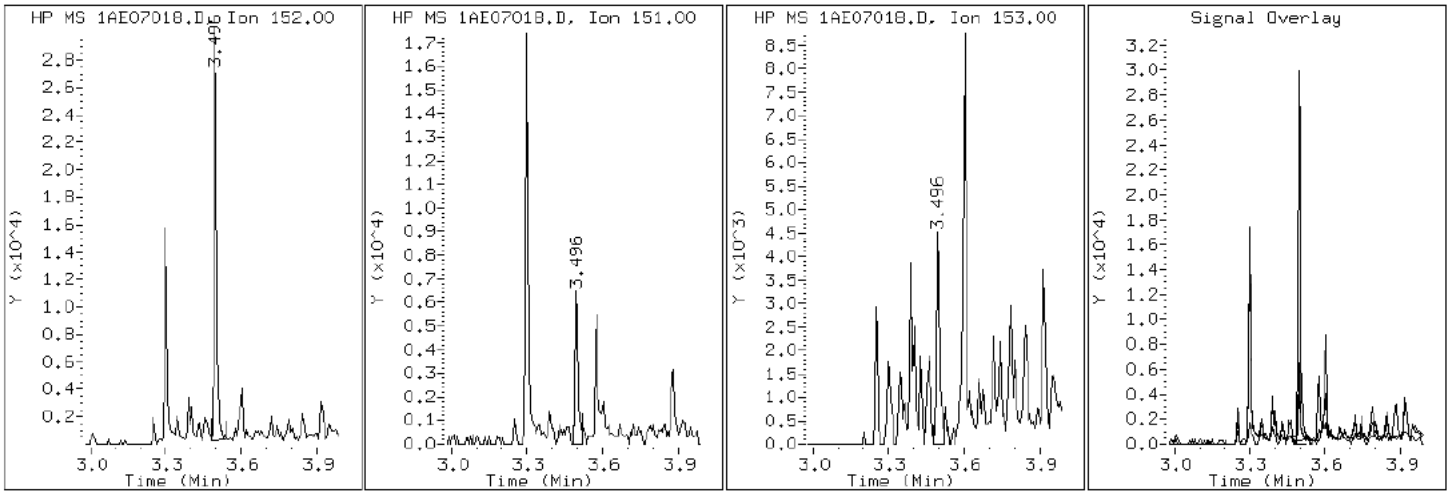
Data File: 1AE07018.D

Date: 07-MAY-2013 16:37

Client ID: CV1177A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-14-a Operator: SCC

5 Acenaphthylene



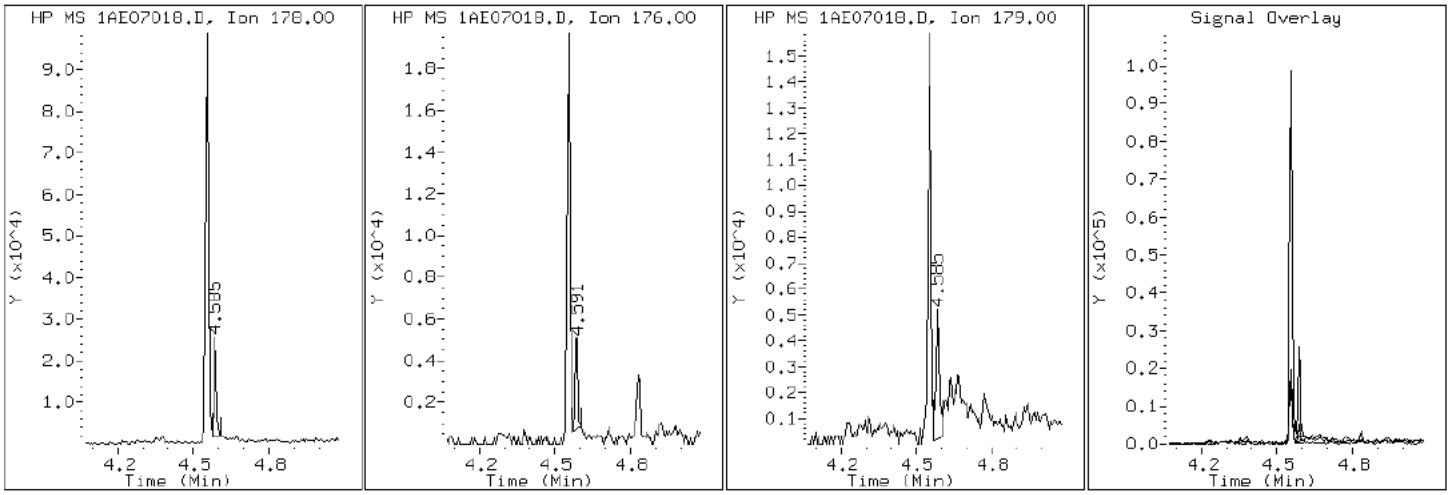
Data File: 1AE07018.D

Date: 07-MAY-2013 16:37

Client ID: CV1177A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-14-a Operator: SCC

12 Anthracene



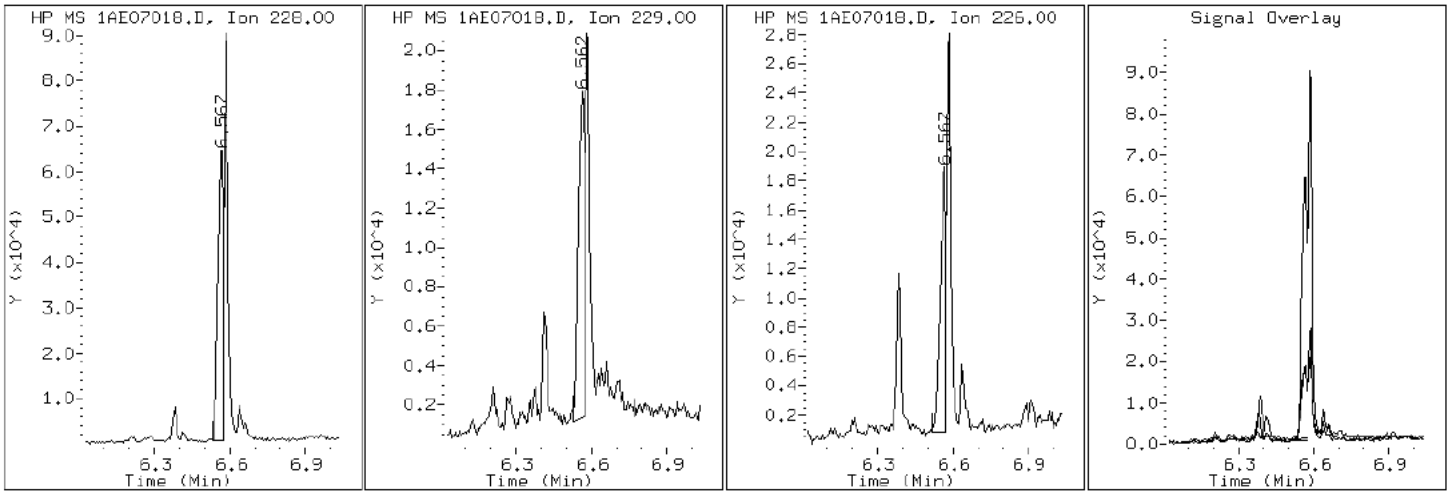
Data File: 1AE07018.D

Date: 07-MAY-2013 16:37

Client ID: CV1177A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-14-a Operator: SCC

17 Benzo(a)anthracene



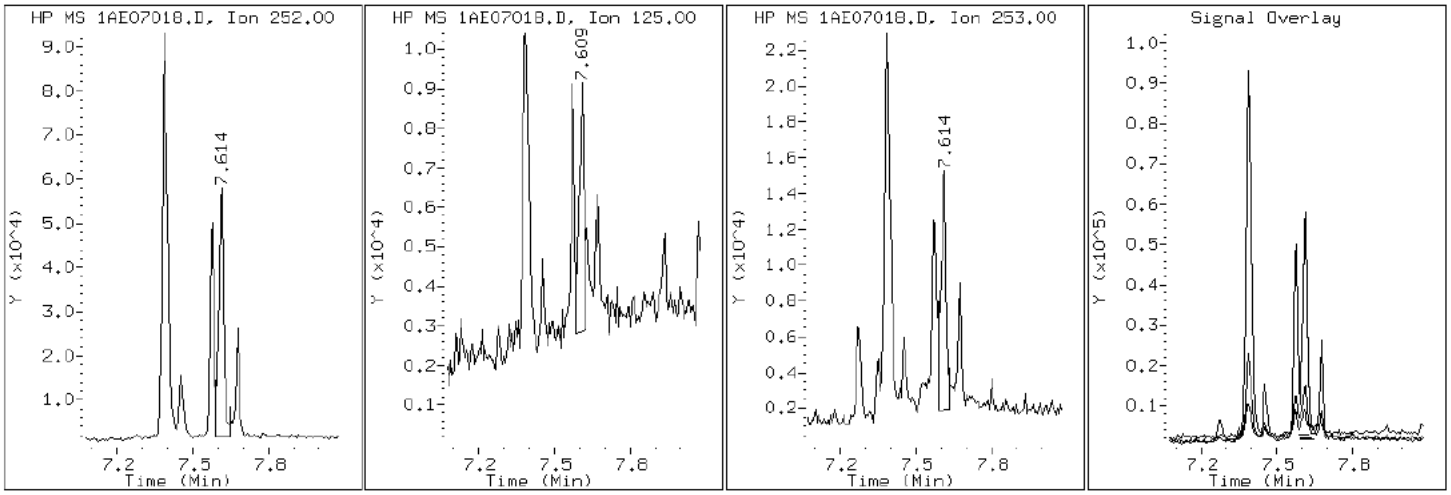
Data File: 1AE07018.D

Date: 07-MAY-2013 16:37

Client ID: CV1177A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-14-a Operator: SCC

22 Benzo(a)pyrene



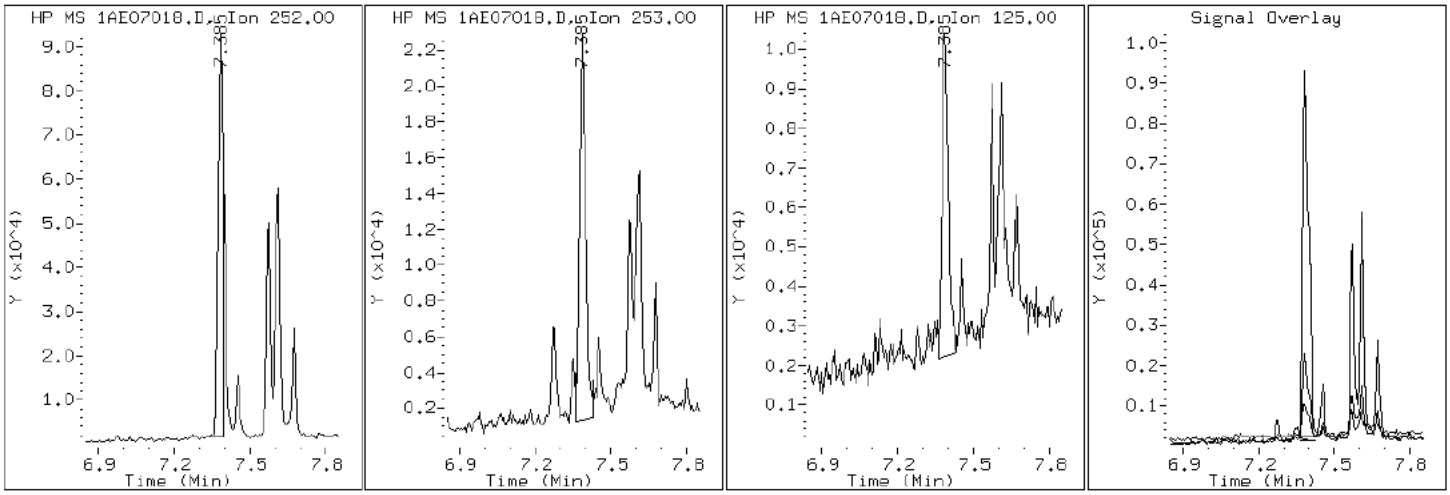
Data File: 1AE07018.D

Date: 07-MAY-2013 16:37

Client ID: CV1177A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-14-a Operator: SCC

20 Benzo(b)fluoranthene



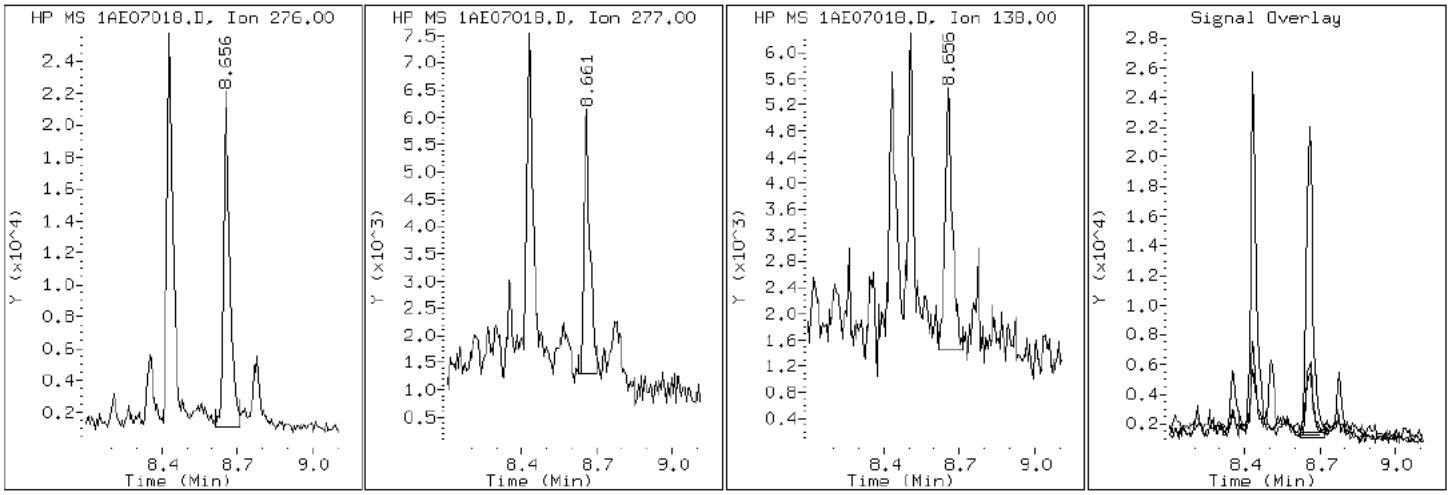
Data File: 1AE07018.D

Date: 07-MAY-2013 16:37

Client ID: CV1177A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-14-a Operator: SCC

26 Benzo(g,h,i)perylene



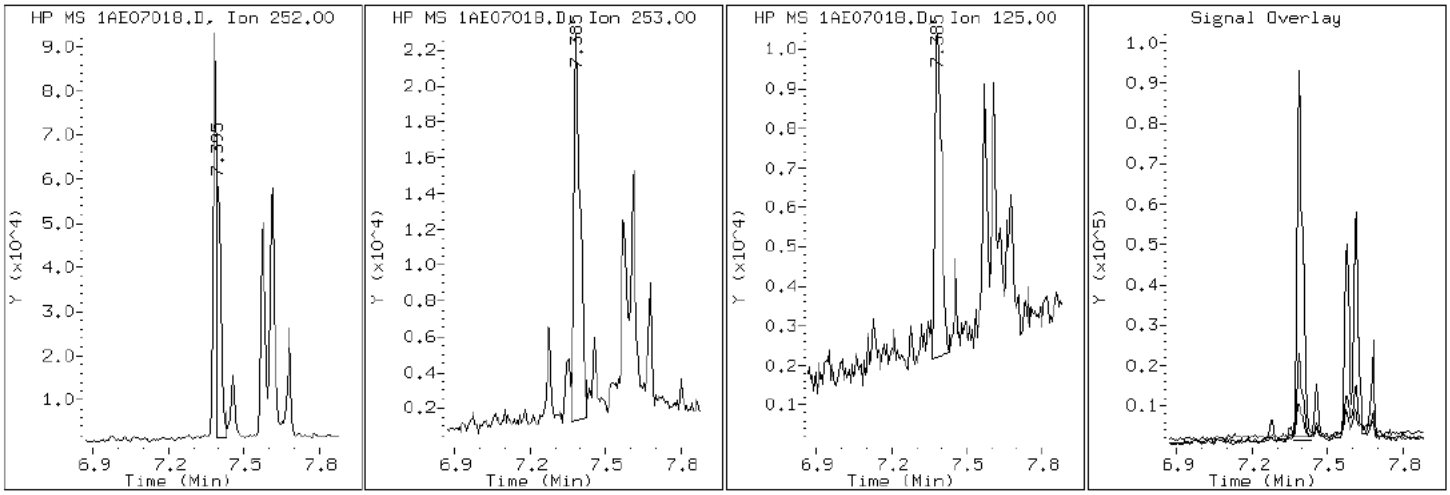
Data File: 1AE07018.D

Date: 07-MAY-2013 16:37

Client ID: CV1177A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-14-a Operator: SCC

21 Benzo(k)fluoranthene



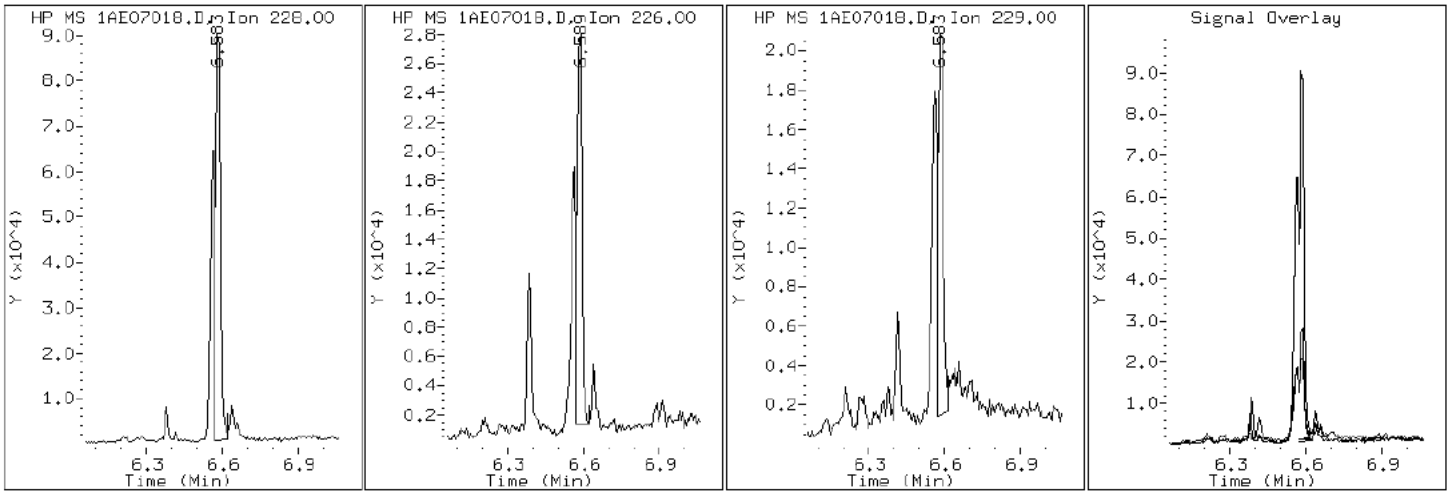
Data File: 1AE07018.D

Date: 07-MAY-2013 16:37

Client ID: CV1177A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-14-a Operator: SCC

19 Chrysene



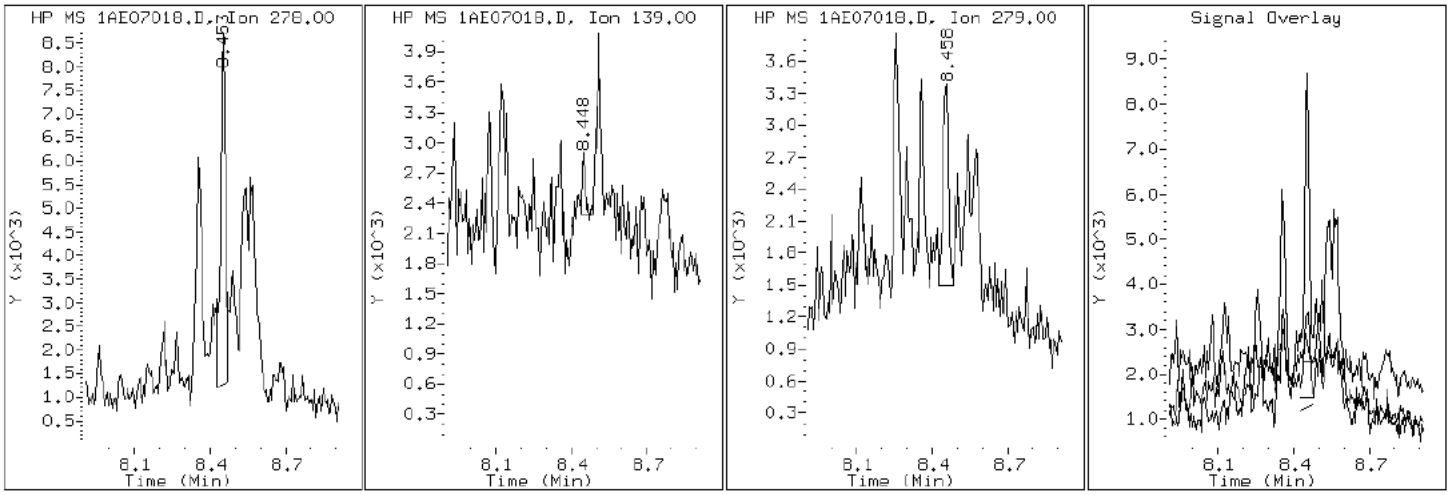
Data File: 1AE07018.D

Date: 07-MAY-2013 16:37

Client ID: CV1177A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-14-a Operator: SCC

25 Dibenzo(a,h)anthracene



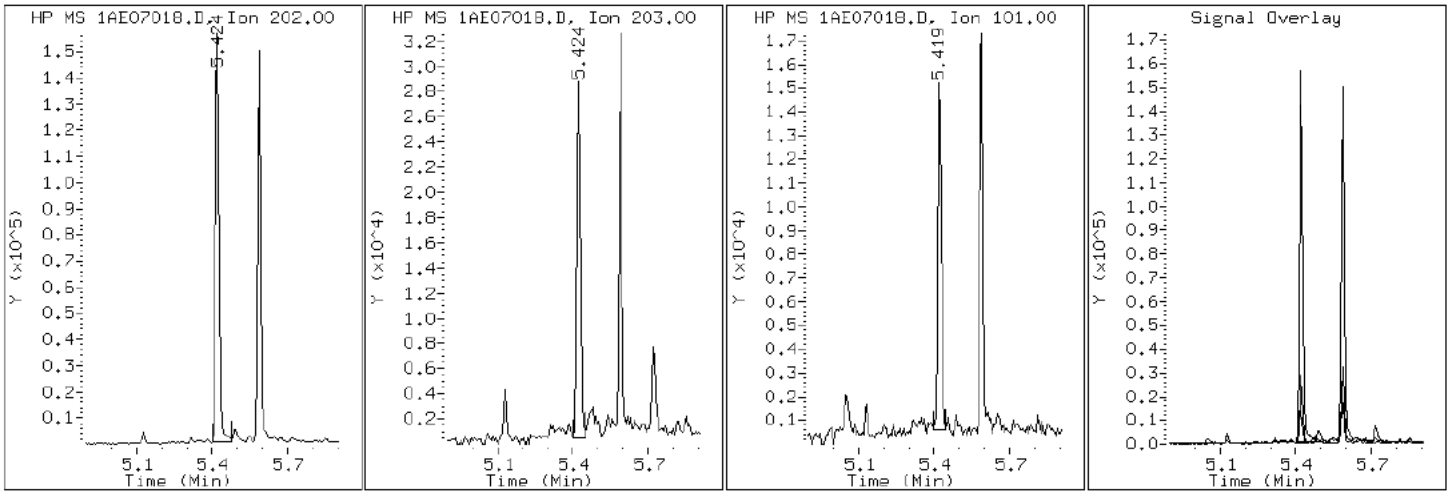
Data File: 1AE07018.D

Date: 07-MAY-2013 16:37

Client ID: CV1177A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-14-a Operator: SCC

15 Fluoranthene



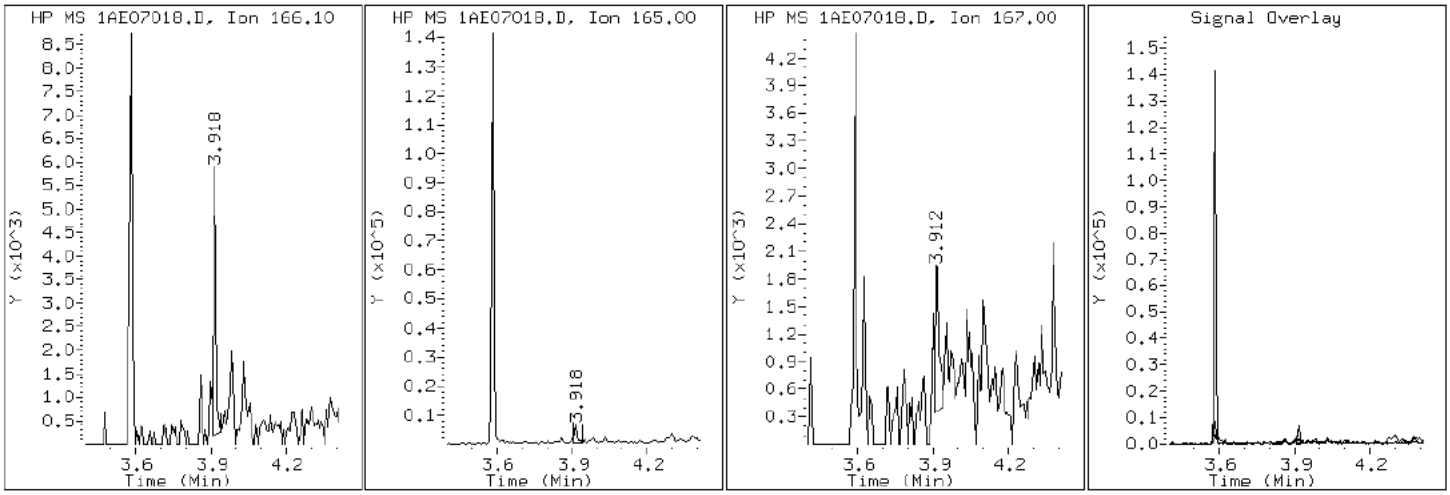
Data File: 1AE07018.D

Date: 07-MAY-2013 16:37

Client ID: CV1177A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-14-a Operator: SCC

9 Fluorene



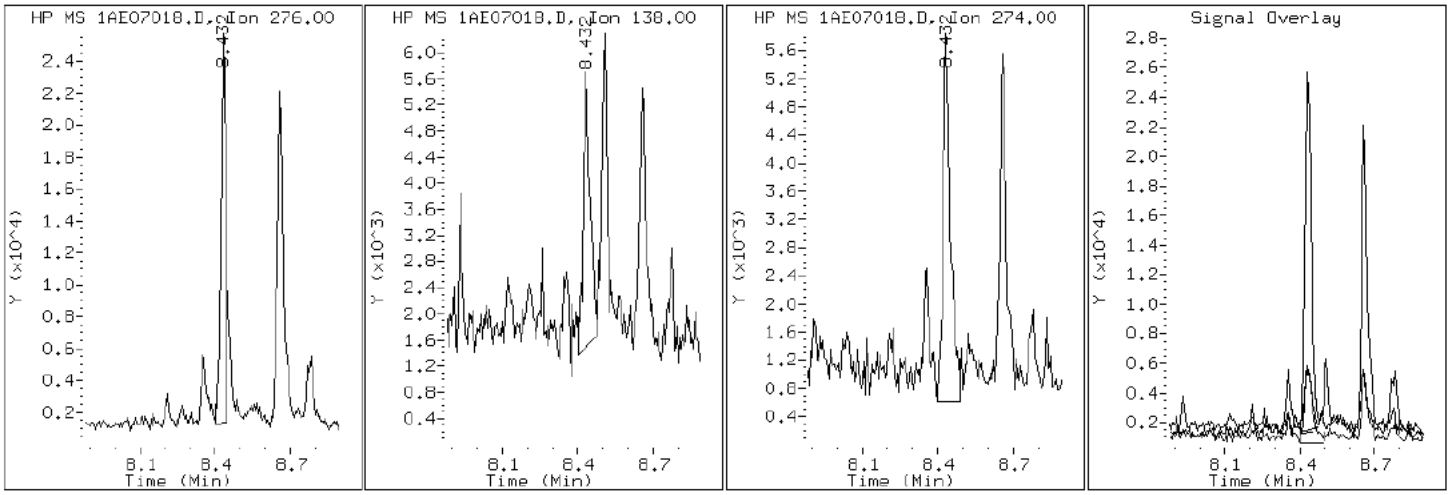
Data File: 1AE07018.D

Date: 07-MAY-2013 16:37

Client ID: CV1177A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-14-a Operator: SCC

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



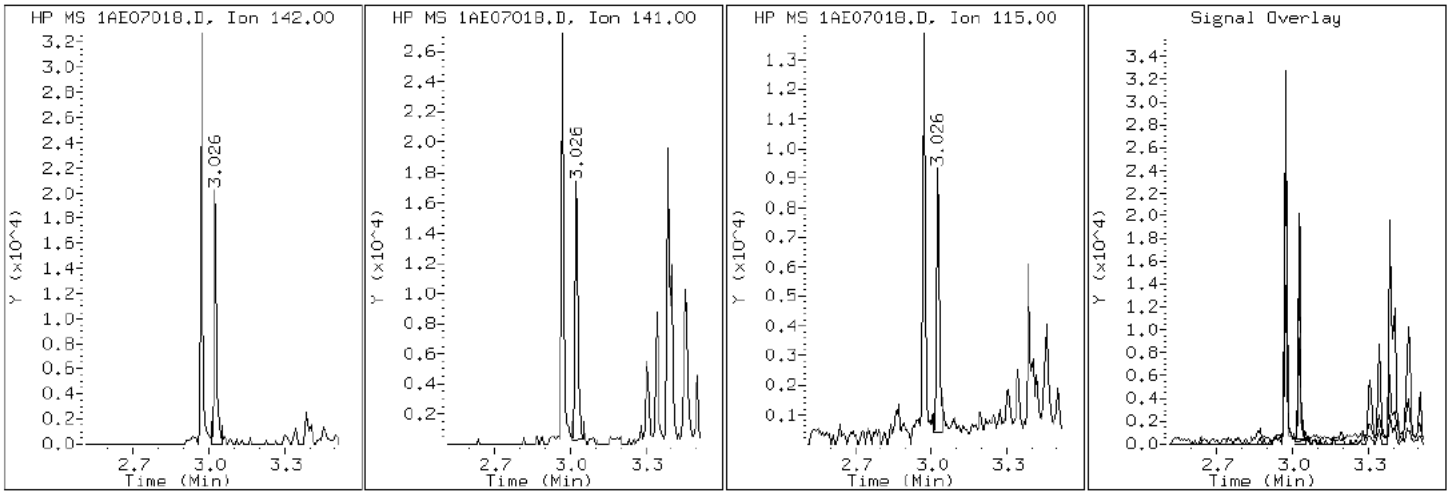
Data File: 1AE07018.D

Date: 07-MAY-2013 16:37

Client ID: CV1177A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-14-a Operator: SCC

4 1-Methylnaphthalene



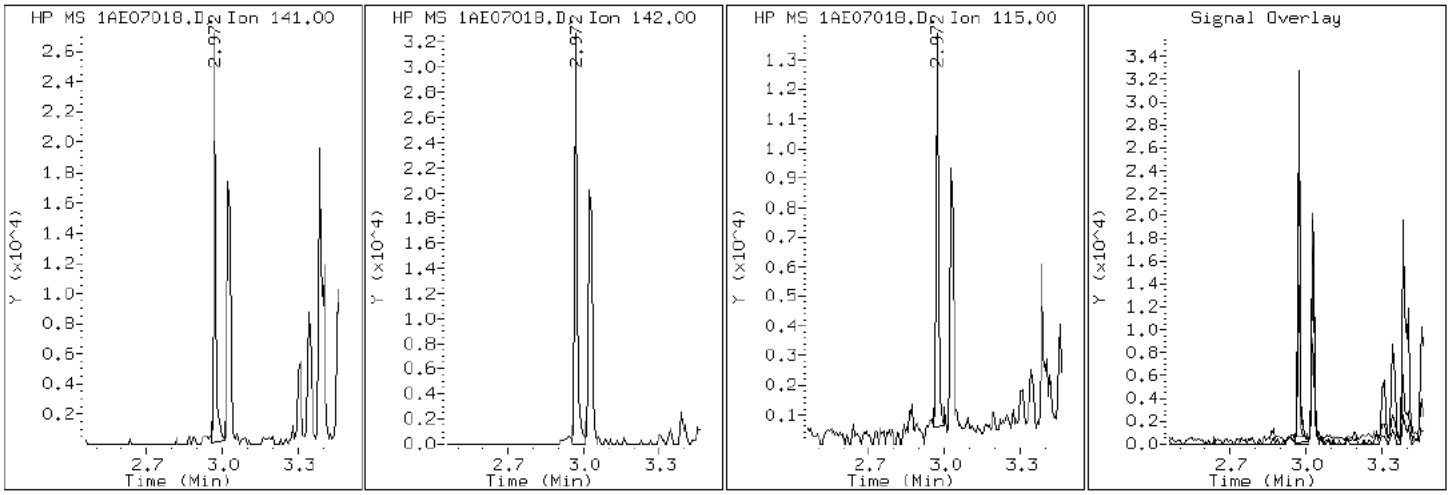
Data File: 1AE07018.D

Date: 07-MAY-2013 16:37

Client ID: CV1177A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-14-a Operator: SCC

3 2-Methylnaphthalene



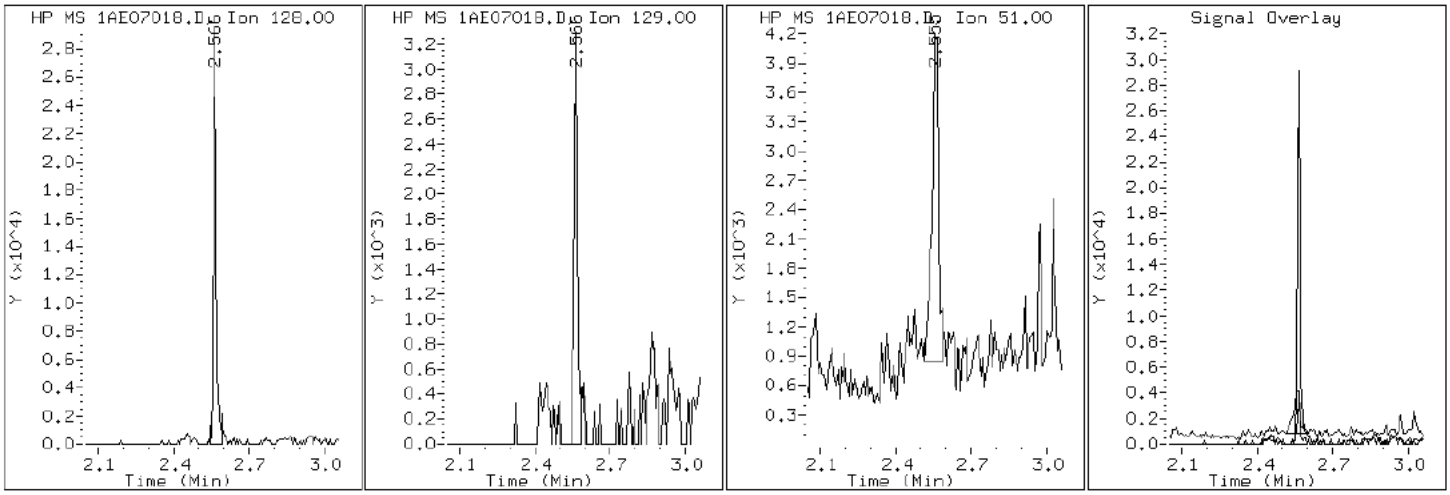
Data File: 1AE07018.D

Date: 07-MAY-2013 16:37

Client ID: CV1177A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-14-a Operator: SCC

2 Naphthalene



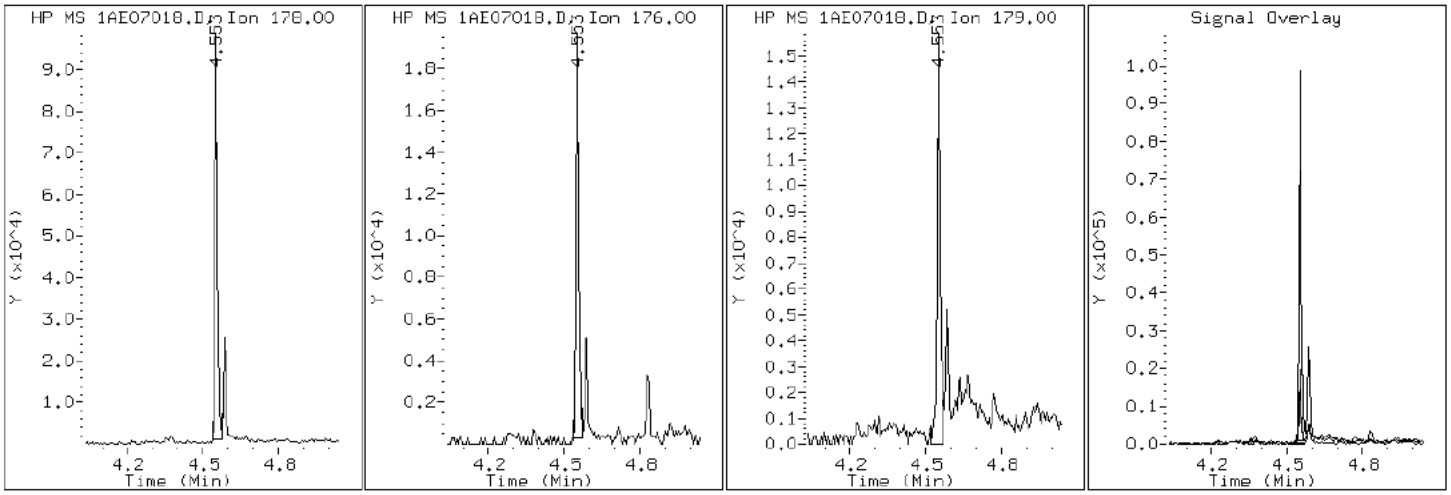
Data File: 1AE07018.D

Date: 07-MAY-2013 16:37

Client ID: CV1177A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-14-a Operator: SCC

11 Phenanthrene



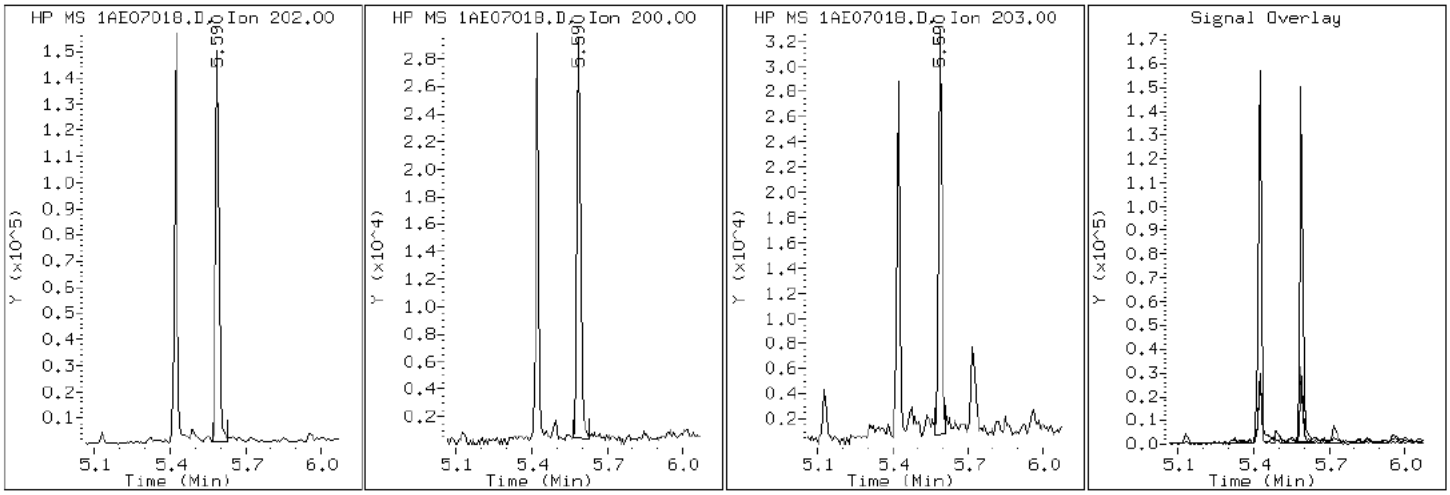
Data File: 1AE07018.D

Date: 07-MAY-2013 16:37

Client ID: CV1177A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-14-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE07018.D
Inj. Date and Time: 07-MAY-2013 16:37
Instrument ID: BSMA5973.i
Client ID: CV1177A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

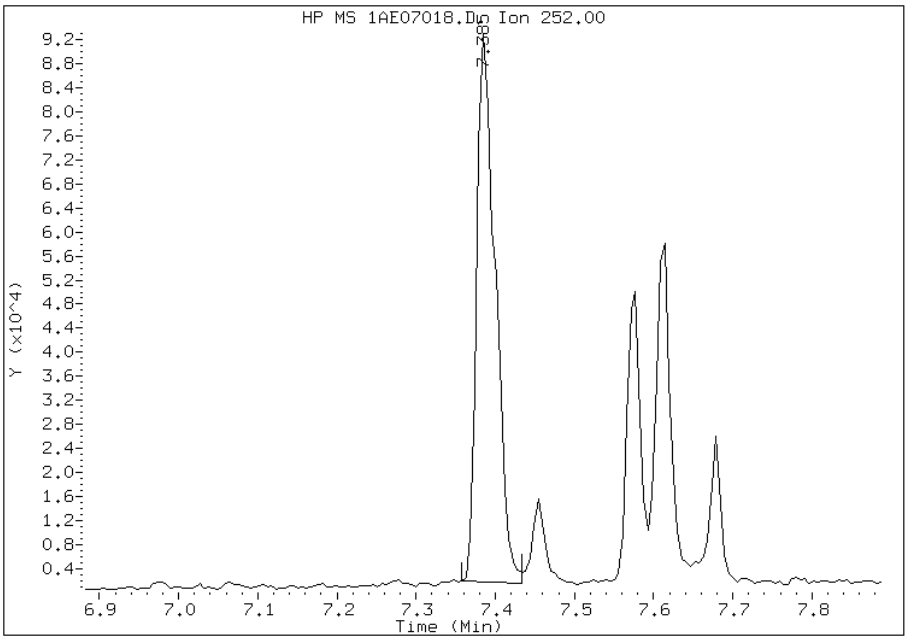
Processing Integration Results

RT: 7.38

Response: 146965

Amount: 5

Conc: 414



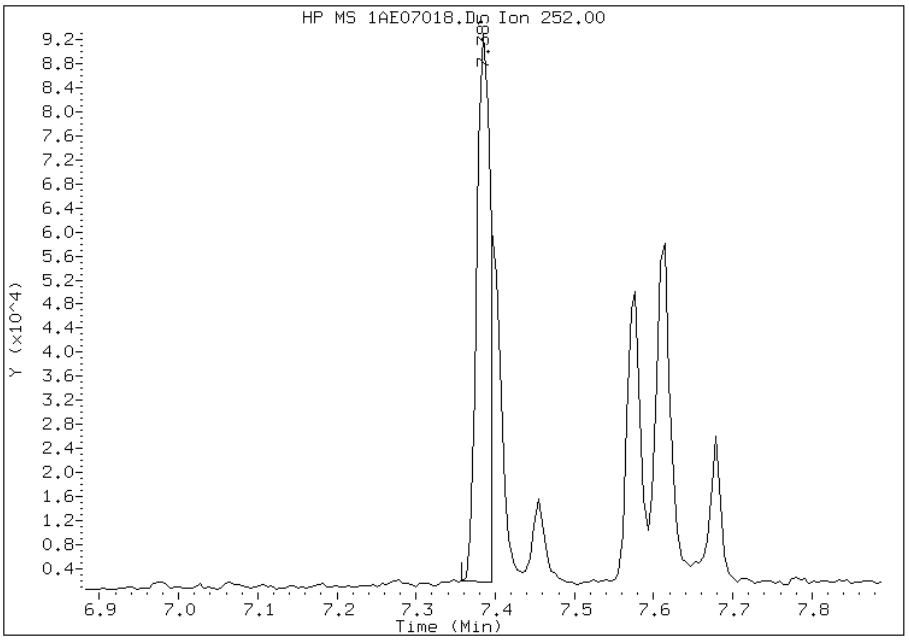
Manual Integration Results

RT: 7.38

Response: 109228

Amount: 4

Conc: 307



Manually Integrated By: cantins
Modification Date: 09-May-2013 12:20
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE07018.D
Inj. Date and Time: 07-MAY-2013 16:37
Instrument ID: BSMA5973.i
Client ID: CV1177A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

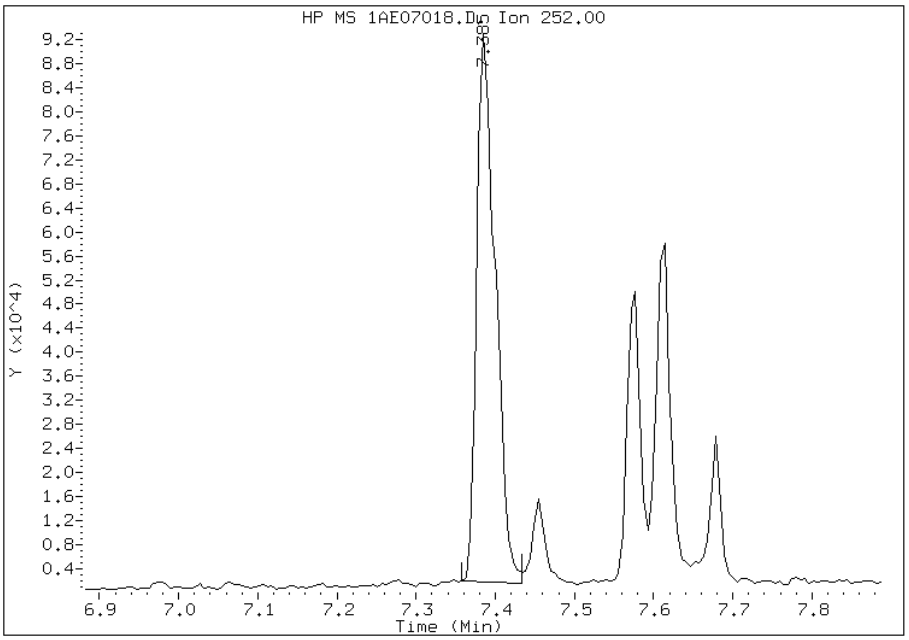
Processing Integration Results

RT: 7.38

Response: 146965

Amount: 4

Conc: 333



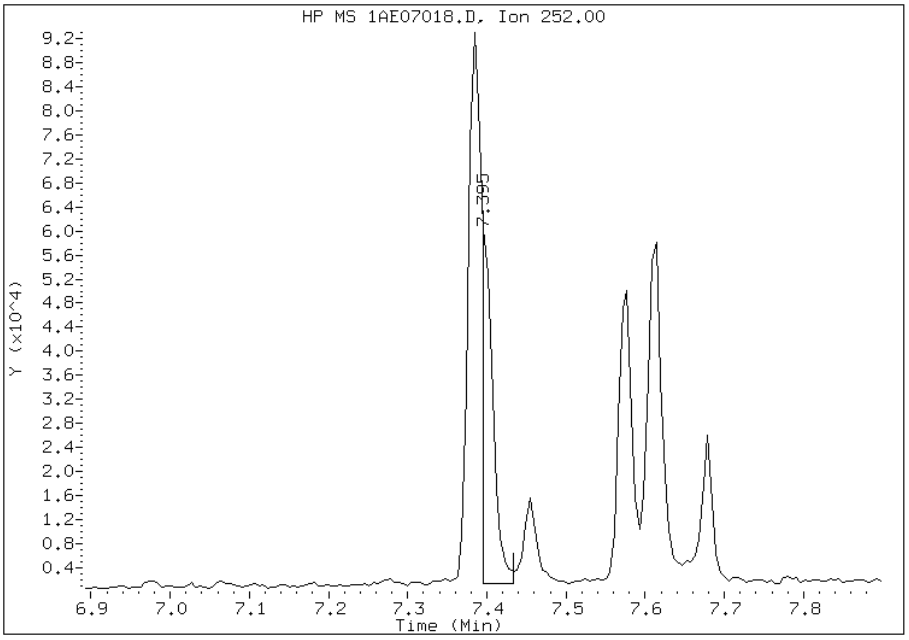
Manual Integration Results

RT: 7.40

Response: 57055

Amount: 2

Conc: 129



Manually Integrated By: cantins
Modification Date: 09-May-2013 12:20
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE07018.D
Inj. Date and Time: 07-MAY-2013 16:37
Instrument ID: BSMA5973.i
Client ID: CV1177A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

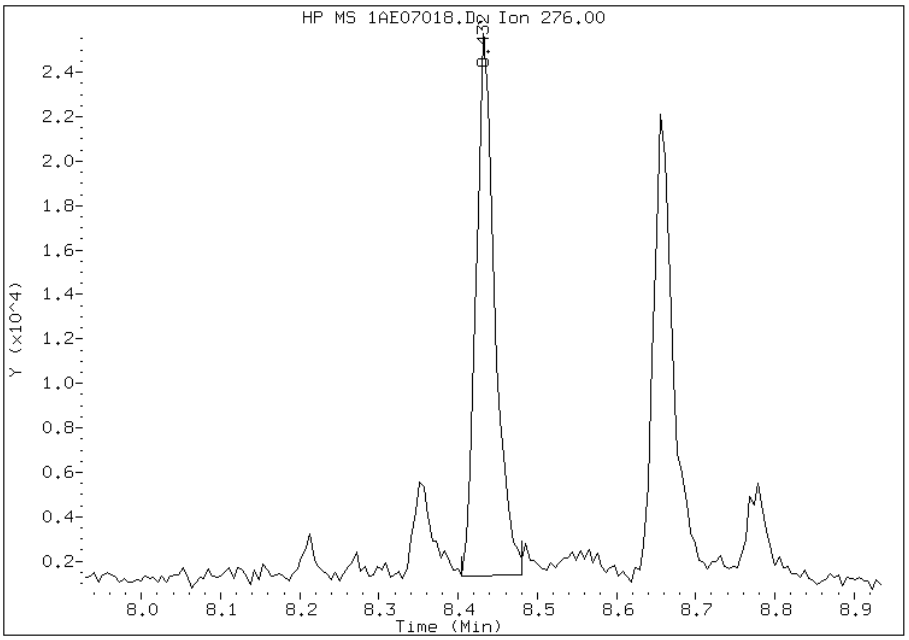
Processing Integration Results

RT: 8.43

Response: 39938

Amount: 2

Conc: 131



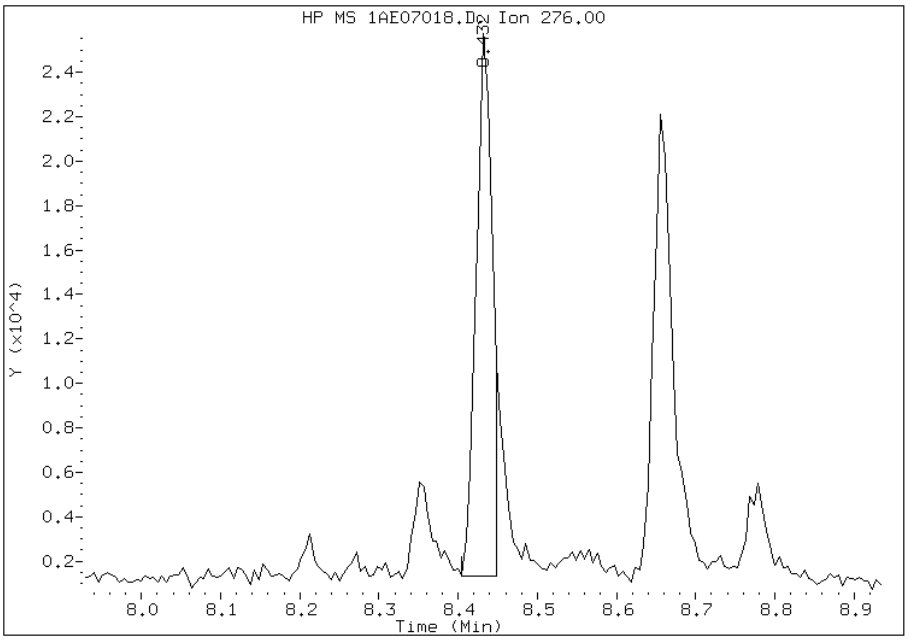
Manual Integration Results

RT: 8.43

Response: 34070

Amount: 1

Conc: 111



Manually Integrated By: cantins
Modification Date: 09-May-2013 12:21
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: CV1177B-CS | Lab Sample ID: 680-89985-15

Matrix: Solid | Lab File ID: 1AE07019.D

Analysis Method: 8270C LL | Date Collected: 05/01/2013 14:10

Extract. Method: 3546 | Date Extracted: 05/06/2013 08:14

Sample wt/vol: 15.43(g) | Date Analyzed: 05/07/2013 16:52

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

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

% Moisture: 18.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137194 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	45	J	47	5.9
120-12-7	Anthracene	130		10	5.0
56-55-3	Benzo[a]anthracene	320		9.5	4.6
50-32-8	Benzo[a]pyrene	250		12	6.2
205-99-2	Benzo[b]fluoranthene	380		14	7.2
191-24-2	Benzo[g,h,i]perylene	140		24	5.2
207-08-9	Benzo[k]fluoranthene	170		9.5	4.3
218-01-9	Chrysene	310		11	5.3
53-70-3	Dibenz(a,h)anthracene	51		24	4.9
206-44-0	Fluoranthene	510		24	4.7
86-73-7	Fluorene	25		24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	140		24	8.4
90-12-0	1-Methylnaphthalene	310		47	5.2
91-57-6	2-Methylnaphthalene	570		47	8.4
91-20-3	Naphthalene	270		47	5.2
85-01-8	Phenanthrene	380		9.5	4.6
129-00-0	Pyrene	350		24	4.4

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\1AE07019.D
Lab Smp Id: 680-89985-A-15-A Client Smp ID: CV1177B-CS
Inj Date : 07-MAY-2013 16:52
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89985-a-15-a
Misc Info : 680-89985-A-15-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\a-bFASTPAHi-m.m
Meth Date : 07-May-2013 13:04 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.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	15.430	Weight Extracted
M	18.000	% 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	2.544	(1.000)	1280777	40.0000	
* 6 Acenaphthene-d10	164	3.584	3.575	(1.000)	670440	40.0000	
* 10 Phenanthrene-d10	188	4.541	4.526	(1.000)	969066	40.0000	
$ 14 o-Terphenyl	230	4.834	4.820	(1.065)	84738	6.10969	482.8800
* 18 Chrysene-d12	240	6.576	6.545	(1.000)	1164091	40.0000	(H)
* 23 Perylene-d12	264	7.676	7.630	(1.000)	1175313	40.0000	
2 Naphthalene	128	2.564	2.555	(1.004)	102190	3.38812	267.7808
3 2-Methylnaphthalene	141	2.970	2.961	(1.163)	110006	7.17663	567.2055
4 1-Methylnaphthalene	142	3.029	3.014	(1.186)	71672	3.90099	308.3155
5 Acenaphthylene	152	3.499	3.484	(0.976)	18019	0.57197	45.2058
9 Fluorene	166	3.916	3.906	(1.092)	6385	0.30969	24.4762
11 Phenanthrene	178	4.551	4.537	(1.002)	116206	4.84034	382.5568
12 Anthracene	178	4.589	4.574	(1.011)	41355	1.61708	127.8061
13 Carbazole	167	4.728	4.707	(1.041)	24967	1.08581	85.8172

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.422	5.402	(1.194)	178007	6.44512	509.3905
16 Pyrene	202	5.593	5.568	(0.851)	165014	4.40998	348.5432(H)
17 Benzo(a)anthracene	228	6.571	6.529	(0.999)	133969	4.09491	323.6419(H)
19 Chrysene	228	6.592	6.561	(1.002)	141909	3.85515	304.6923(H)
20 Benzo(b)fluoranthene	252	7.393	7.352	(0.963)	149191	4.80247	379.5635(M)
21 Benzo(k)fluoranthene	252	7.404	7.373	(0.965)	81399	2.11210	166.9299(M)
22 Benzo(a)pyrene	252	7.623	7.576	(0.993)	101074	3.16806	250.3877
24 Indeno(1,2,3-cd)pyrene	276	8.451	8.388	(1.101)	46640	1.74502	137.9176(M)
25 Dibenzo(a,h)anthracene	278	8.472	8.410	(1.104)	17530	0.63984	50.5701
26 Benzo(g,h,i)perylene	276	8.681	8.602	(1.131)	52086	1.81223	143.2302

QC Flag Legend

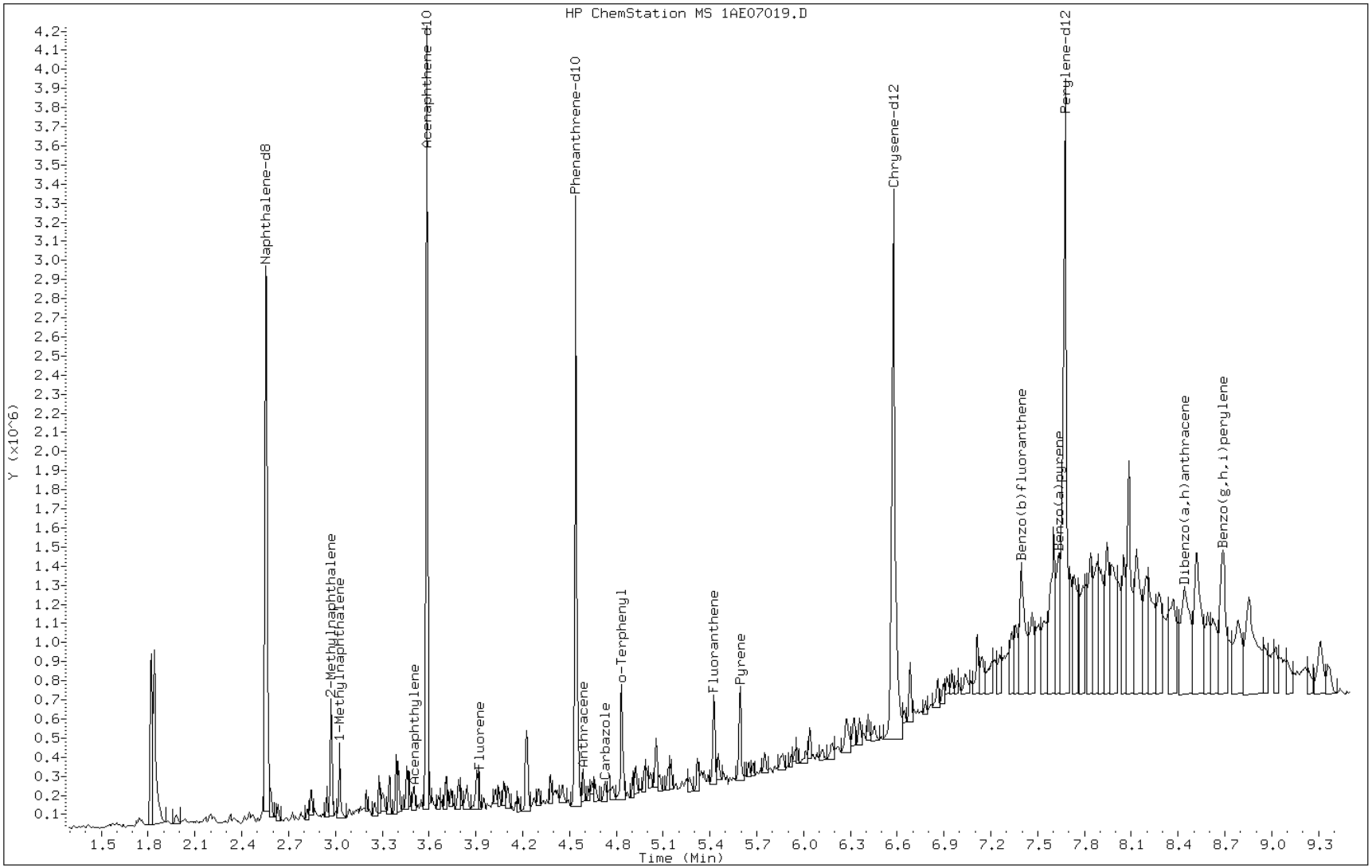
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AE07019.D

Date: 07-MAY-2013 16:52

Client ID: CV1177B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-15-a Operator: SCC



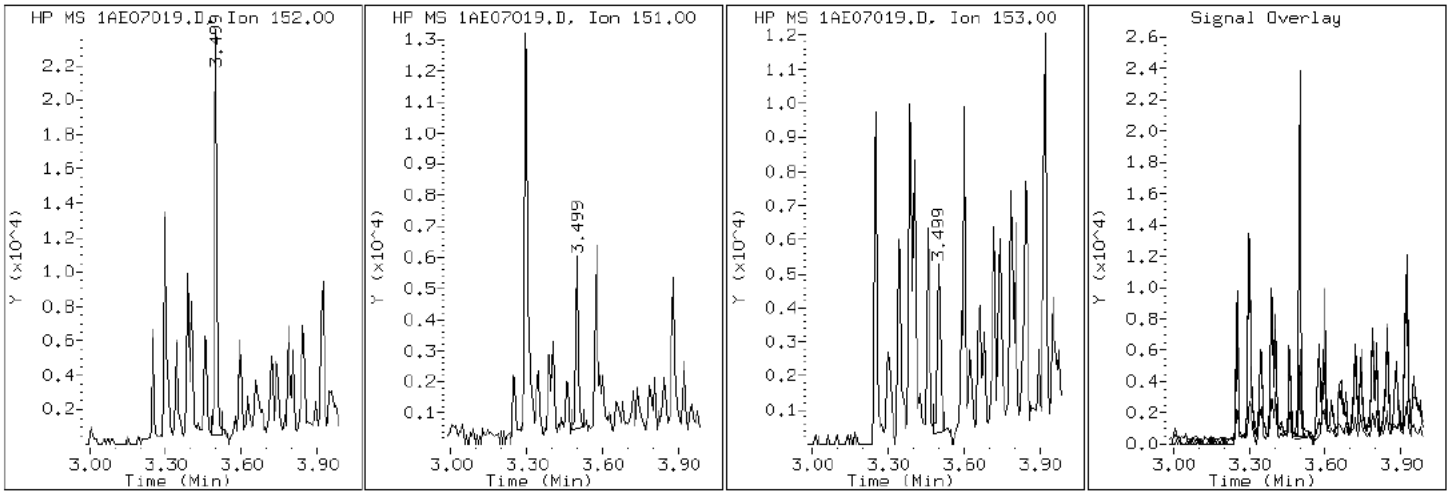
Data File: 1AE07019.D

Date: 07-MAY-2013 16:52

Client ID: CV1177B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-15-a Operator: SCC

5 Acenaphthylene



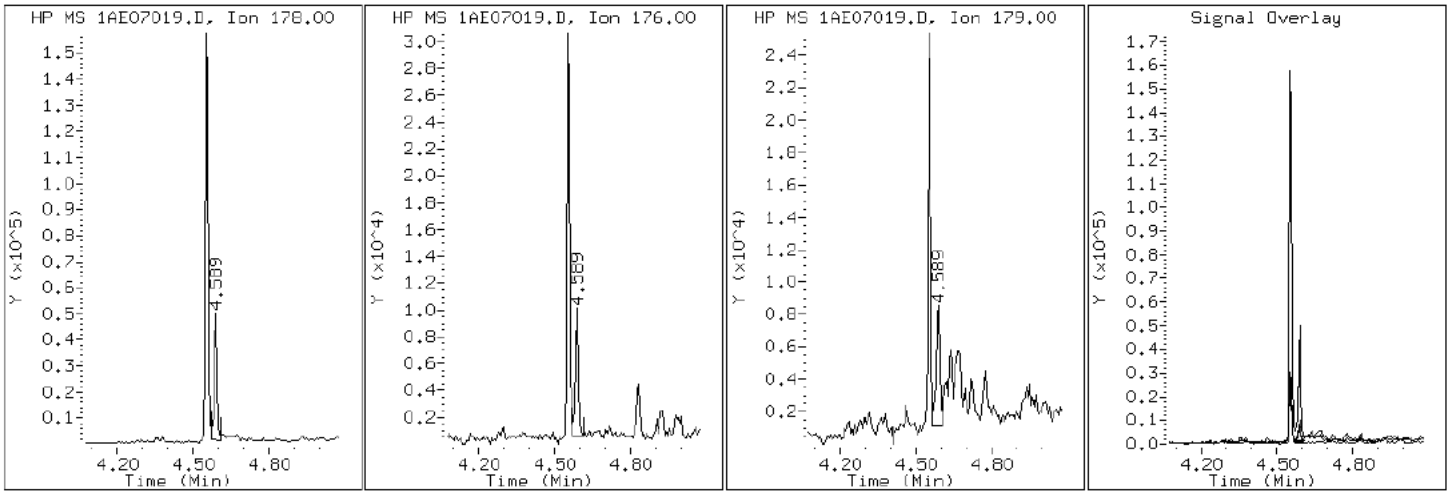
Data File: 1AE07019.D

Date: 07-MAY-2013 16:52

Client ID: CV1177B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-15-a Operator: SCC

12 Anthracene



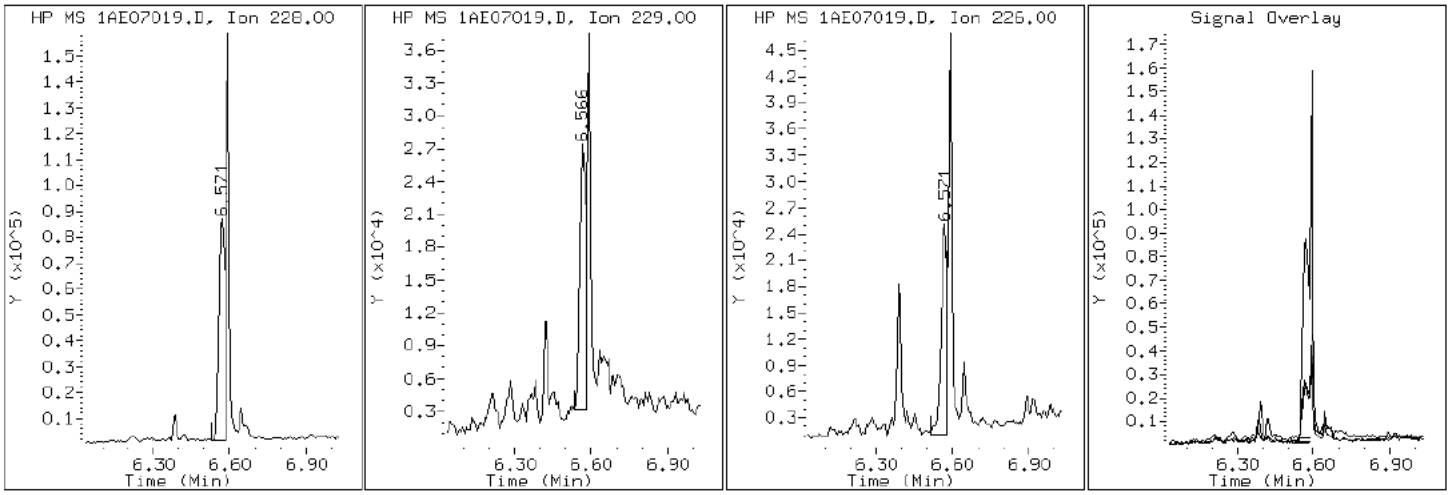
Data File: 1AE07019.D

Date: 07-MAY-2013 16:52

Client ID: CV1177B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-15-a Operator: SCC

17 Benzo(a)anthracene



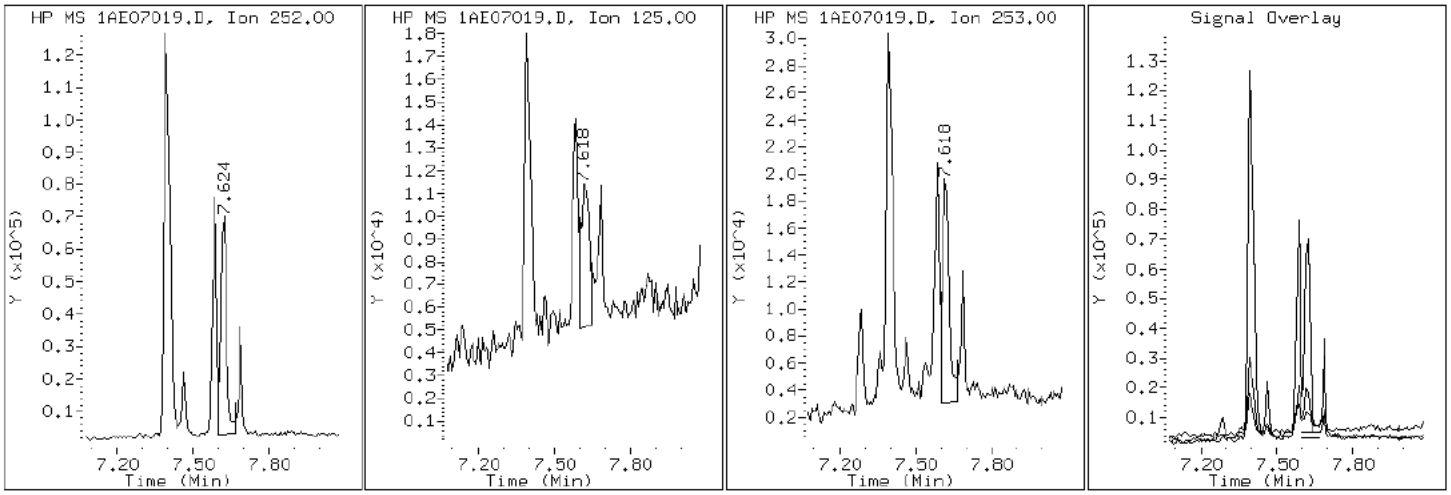
Data File: 1AE07019.D

Date: 07-MAY-2013 16:52

Client ID: CV1177B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-15-a Operator: SCC

22 Benzo(a)pyrene



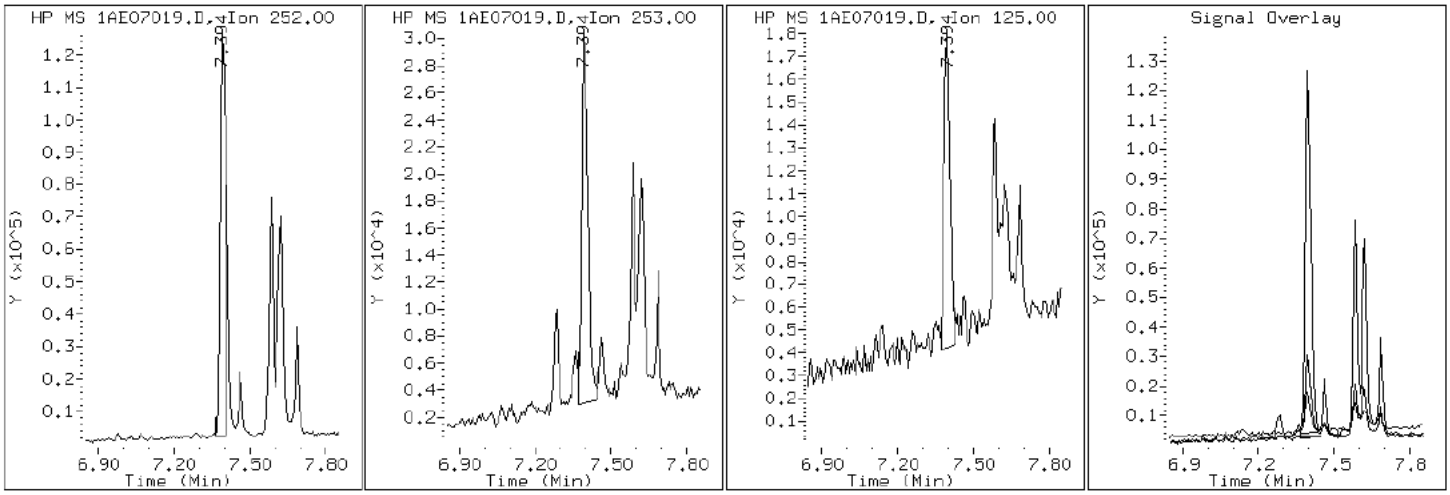
Data File: 1AE07019.D

Date: 07-MAY-2013 16:52

Client ID: CV1177B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-15-a Operator: SCC

20 Benzo(b)fluoranthene



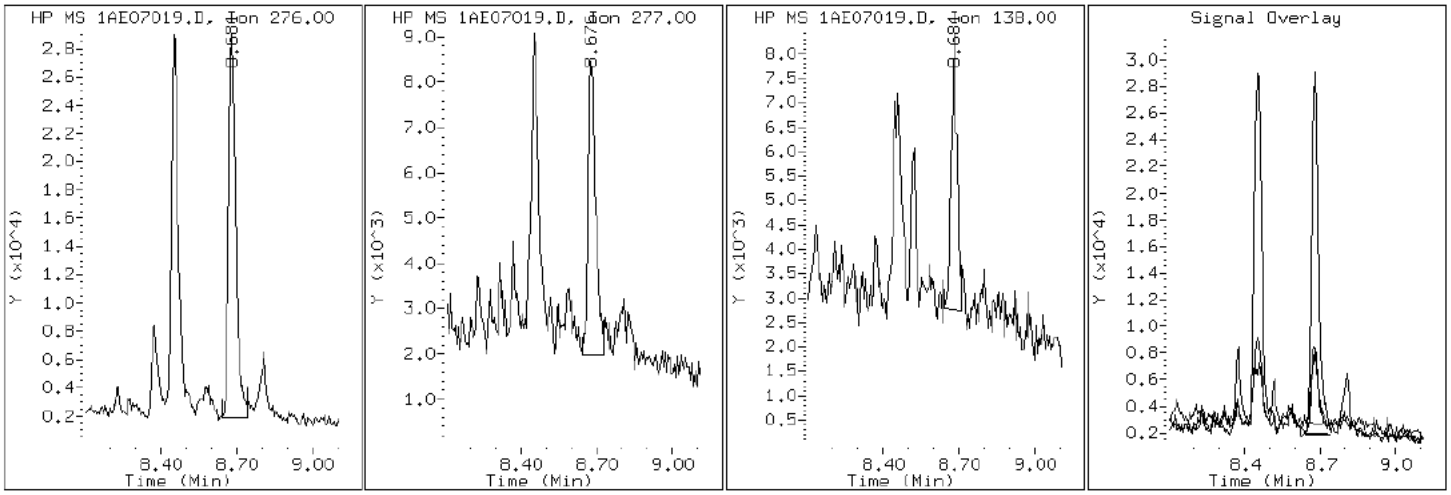
Data File: 1AE07019.D

Date: 07-MAY-2013 16:52

Client ID: CV1177B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-15-a Operator: SCC

26 Benzo(g,h,i)perylene



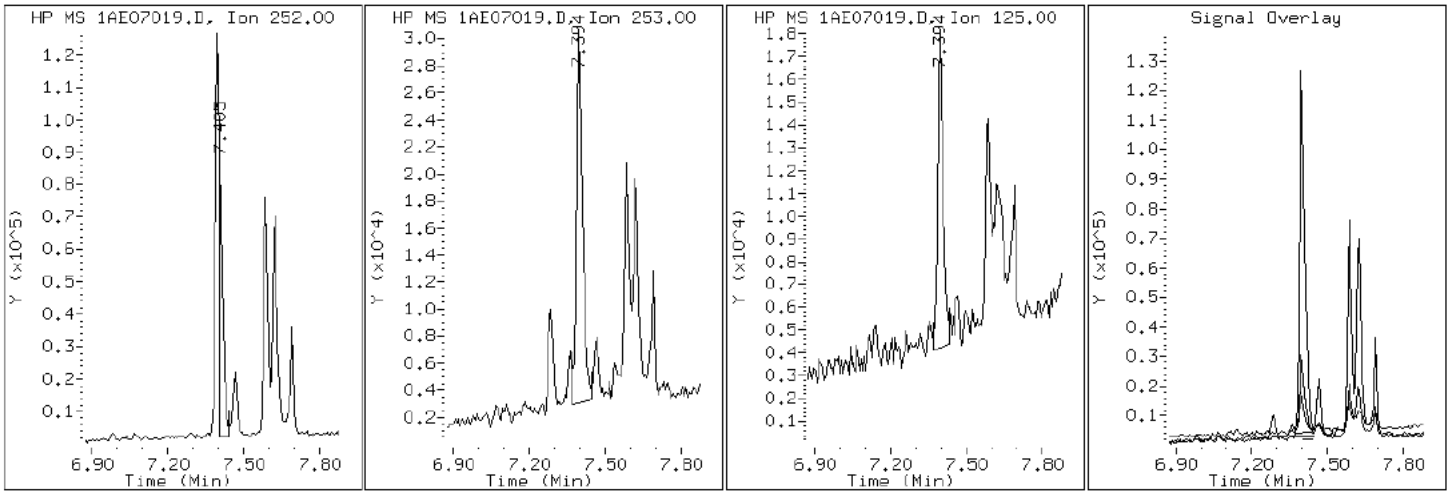
Data File: 1AE07019.D

Date: 07-MAY-2013 16:52

Client ID: CV1177B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-15-a Operator: SCC

21 Benzo(k)fluoranthene



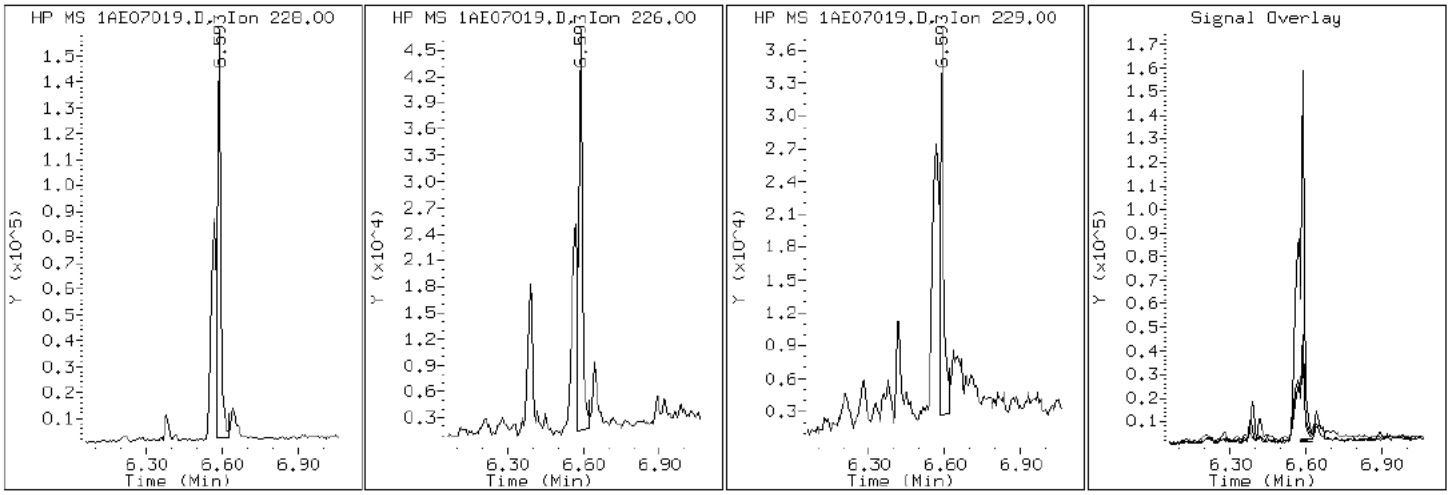
Data File: 1AE07019.D

Date: 07-MAY-2013 16:52

Client ID: CV1177B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-15-a Operator: SCC

19 Chrysene



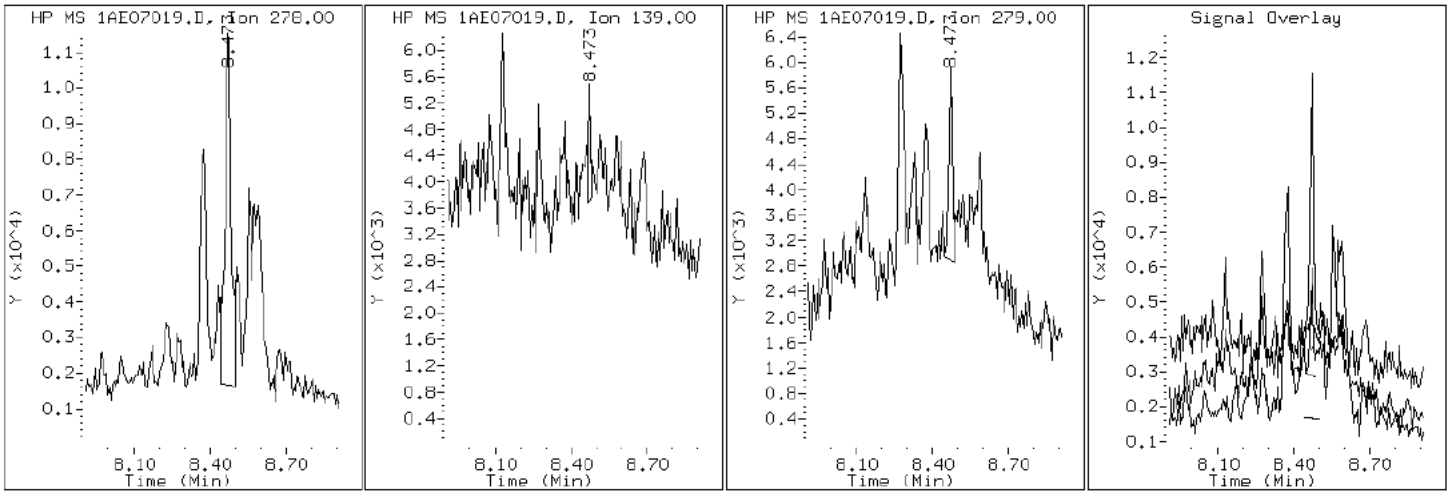
Data File: 1AE07019.D

Date: 07-MAY-2013 16:52

Client ID: CV1177B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-15-a Operator: SCC

25 Dibenzo(a,h)anthracene



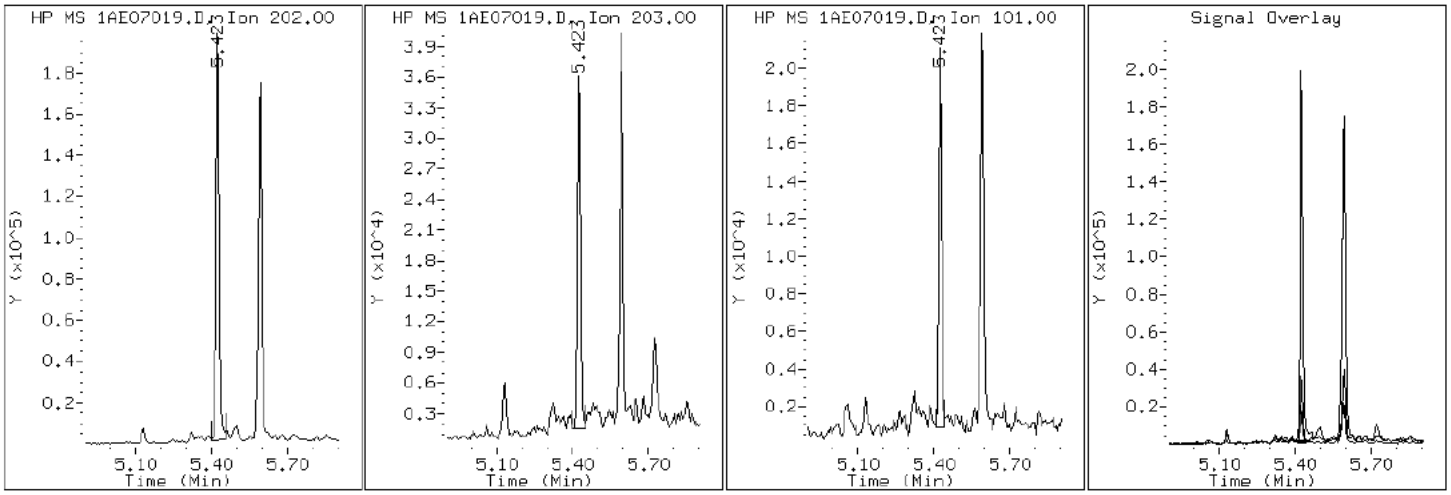
Data File: 1AE07019.D

Date: 07-MAY-2013 16:52

Client ID: CV1177B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-15-a Operator: SCC

15 Fluoranthene



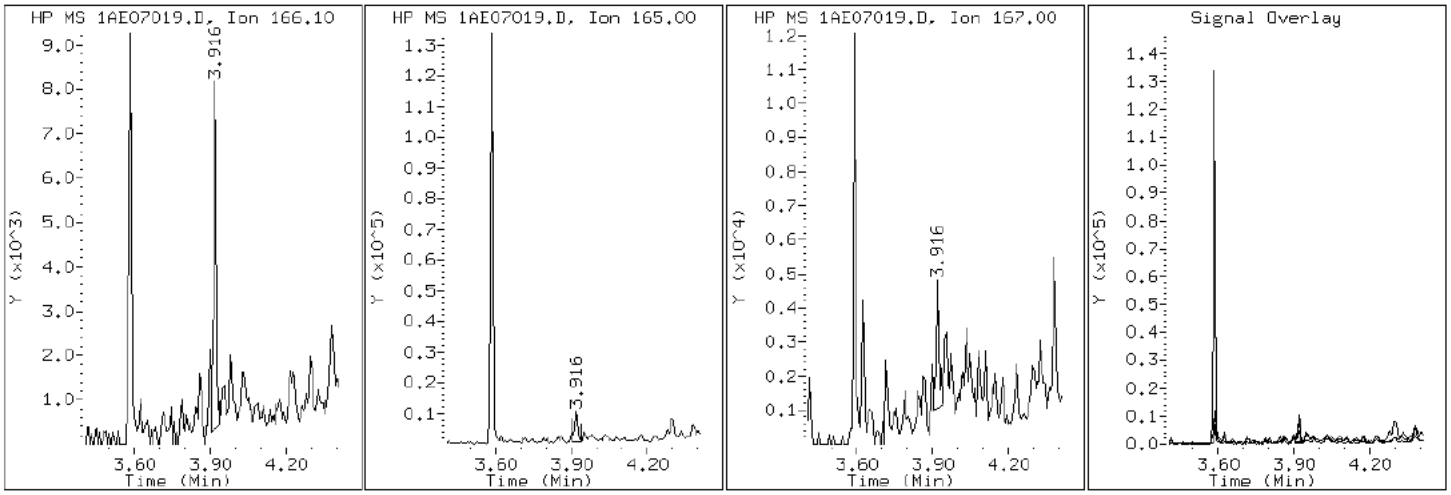
Data File: 1AE07019.D

Date: 07-MAY-2013 16:52

Client ID: CV1177B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-15-a Operator: SCC

9 Fluorene



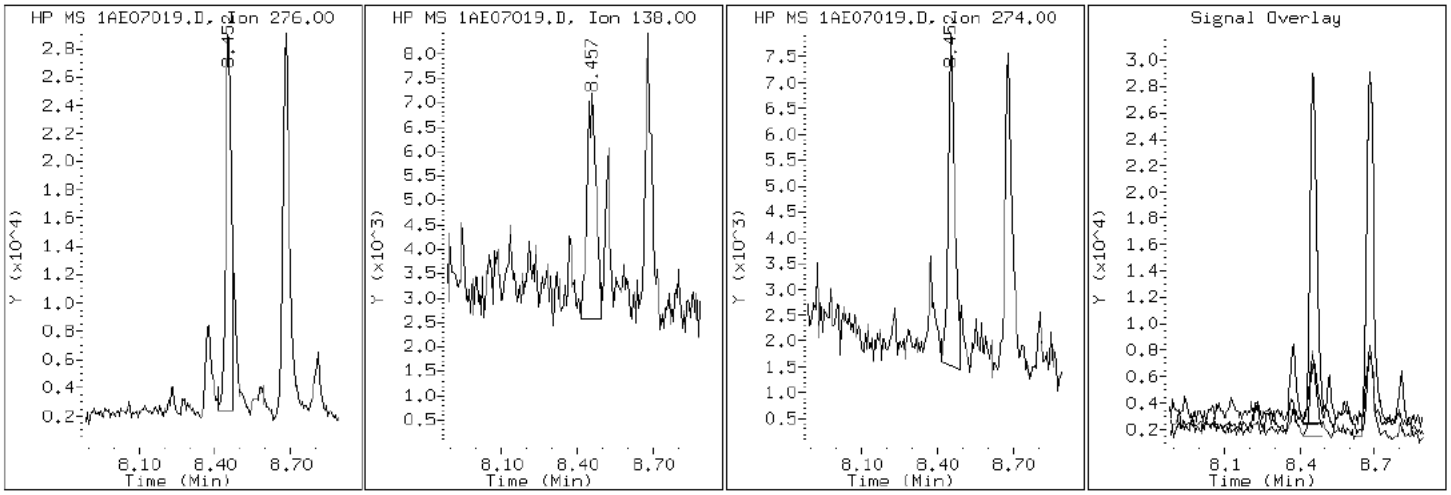
Data File: 1AE07019.D

Date: 07-MAY-2013 16:52

Client ID: CV1177B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-15-a Operator: SCC

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



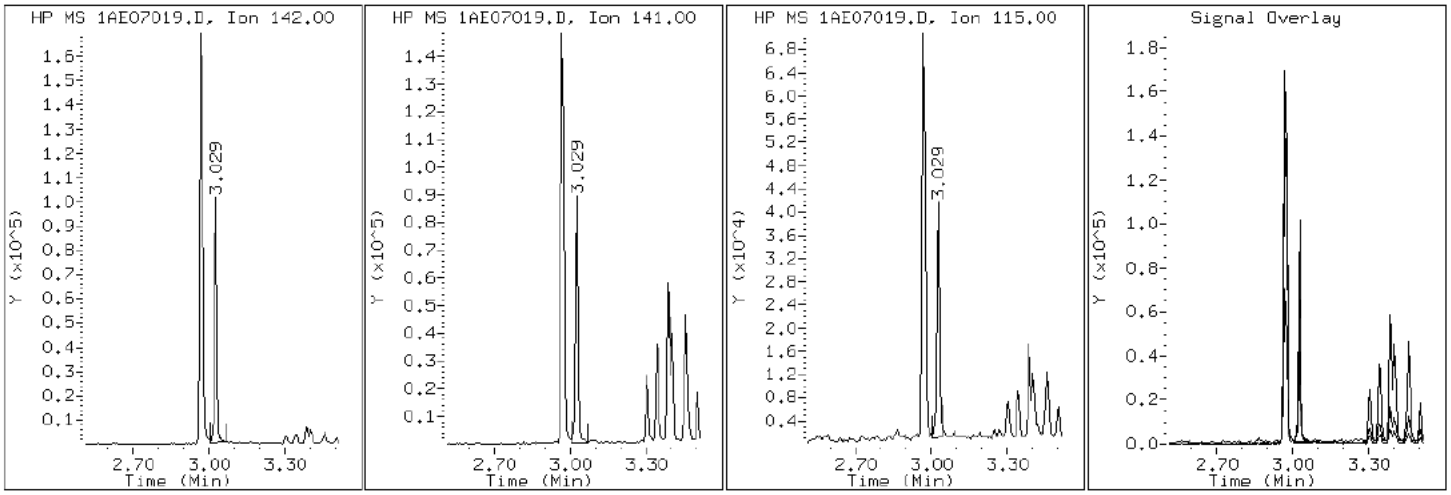
Data File: 1AE07019.D

Date: 07-MAY-2013 16:52

Client ID: CV1177B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-15-a Operator: SCC

4 1-Methylnaphthalene



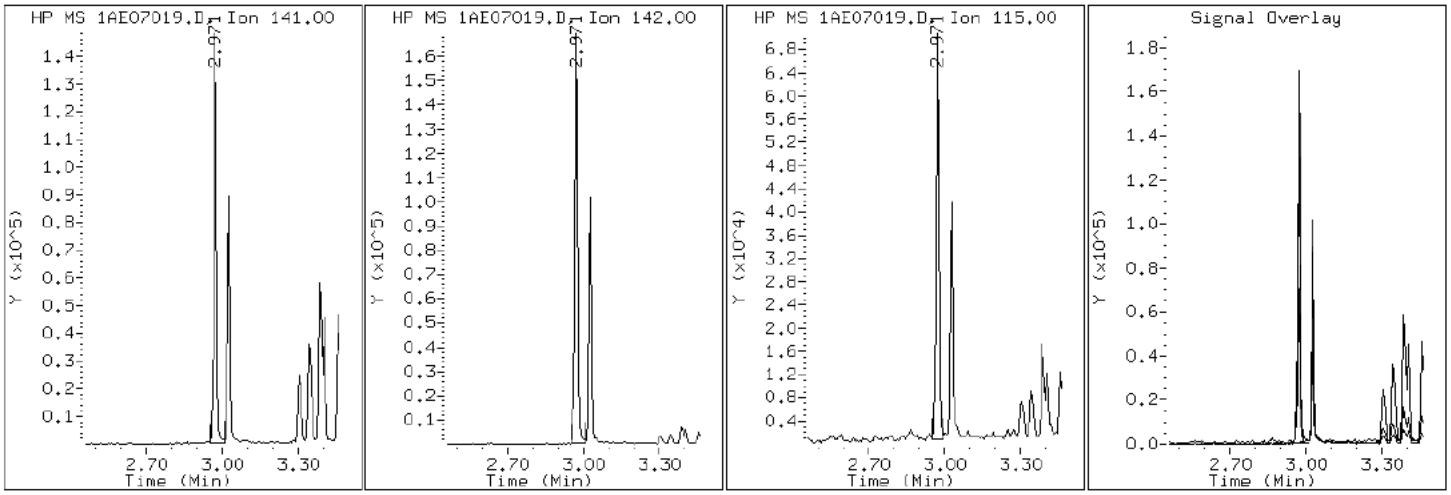
Data File: 1AE07019.D

Date: 07-MAY-2013 16:52

Client ID: CV1177B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-15-a Operator: SCC

3 2-Methylnaphthalene



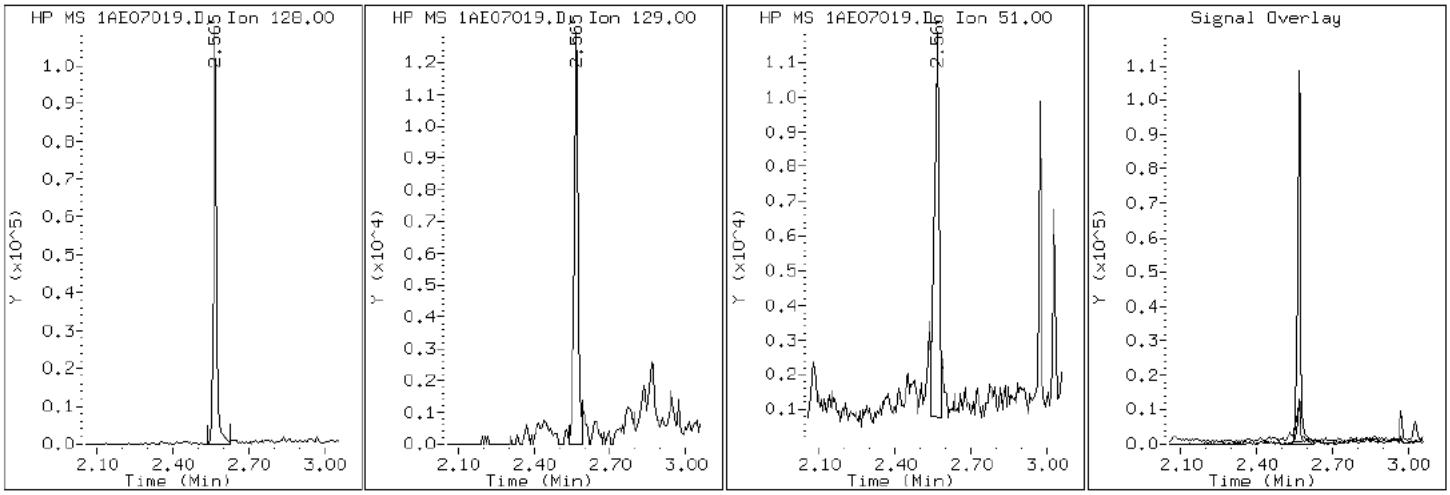
Data File: 1AE07019.D

Date: 07-MAY-2013 16:52

Client ID: CV1177B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-15-a Operator: SCC

2 Naphthalene



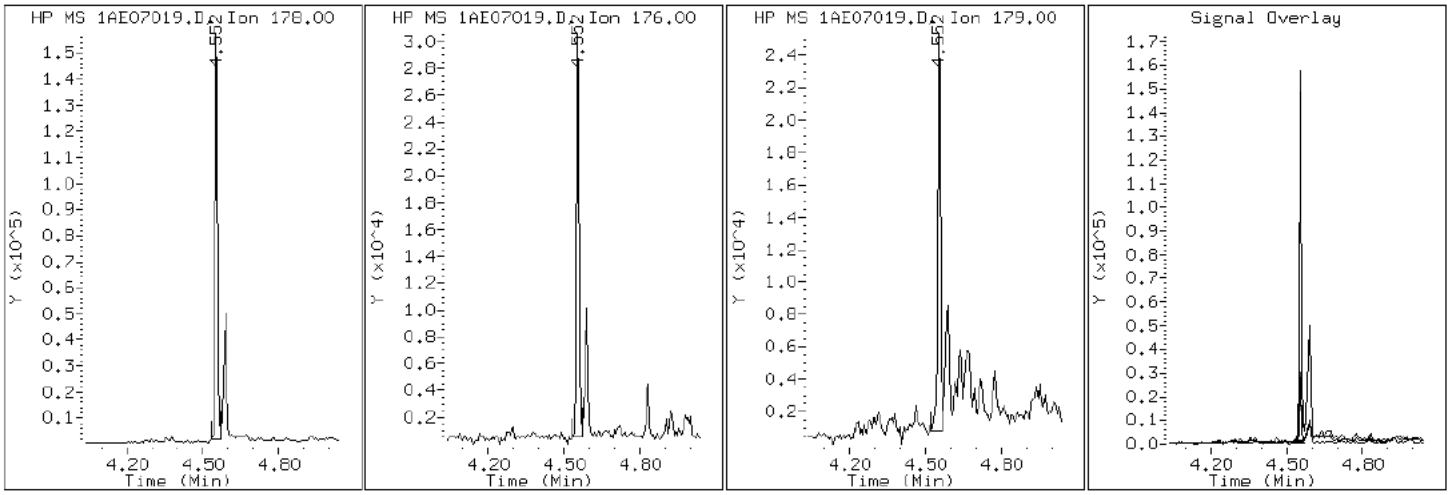
Data File: 1AE07019.D

Date: 07-MAY-2013 16:52

Client ID: CV1177B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-15-a Operator: SCC

11 Phenanthrene



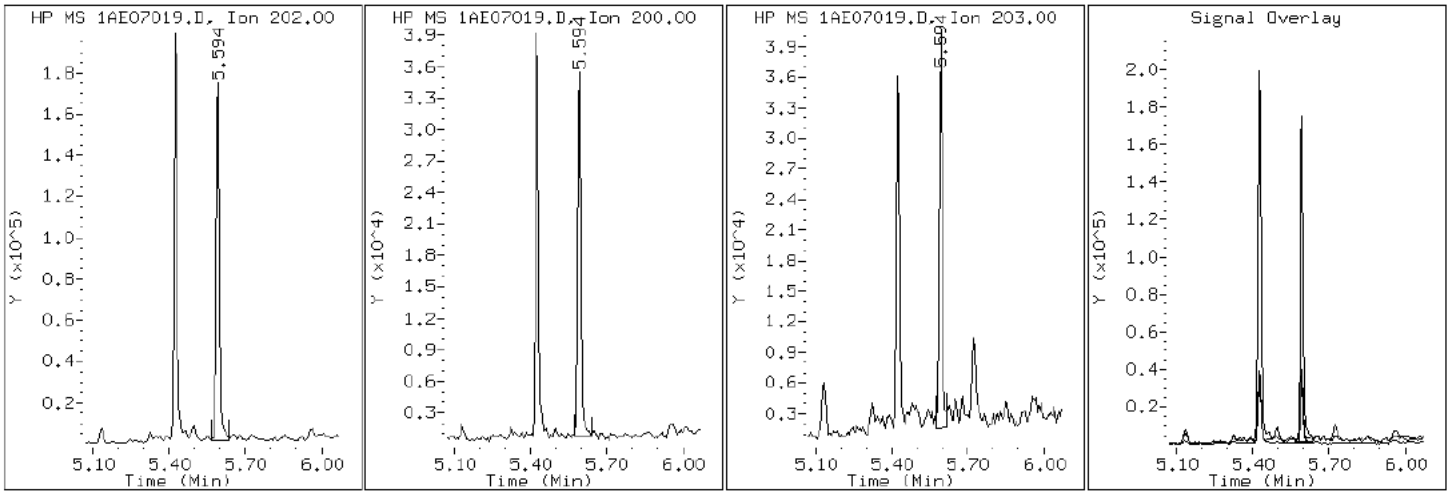
Data File: 1AE07019.D

Date: 07-MAY-2013 16:52

Client ID: CV1177B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-15-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE07019.D
Inj. Date and Time: 07-MAY-2013 16:52
Instrument ID: BSMA5973.i
Client ID: CV1177B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

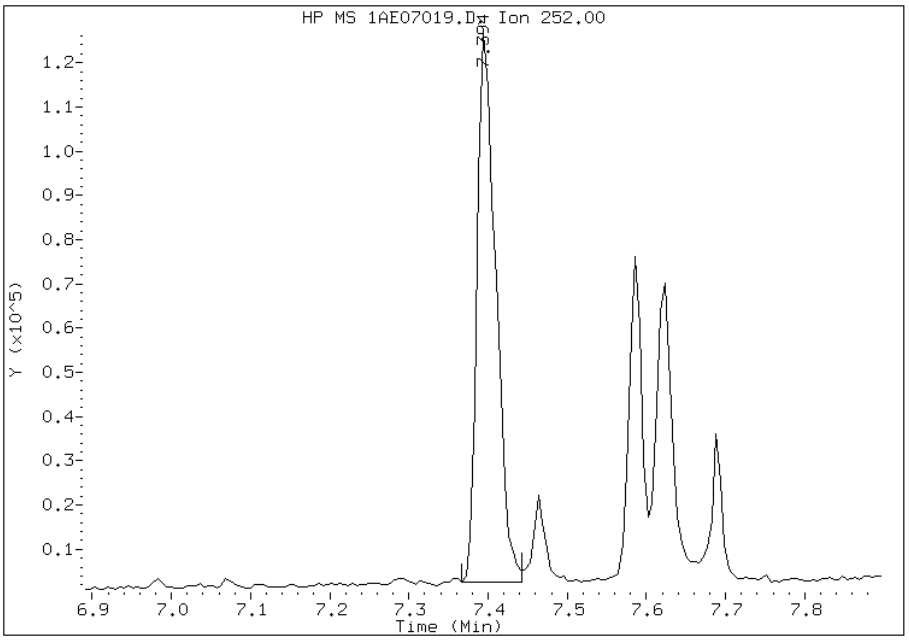
Processing Integration Results

RT: 7.39

Response: 201706

Amount: 6

Conc: 513



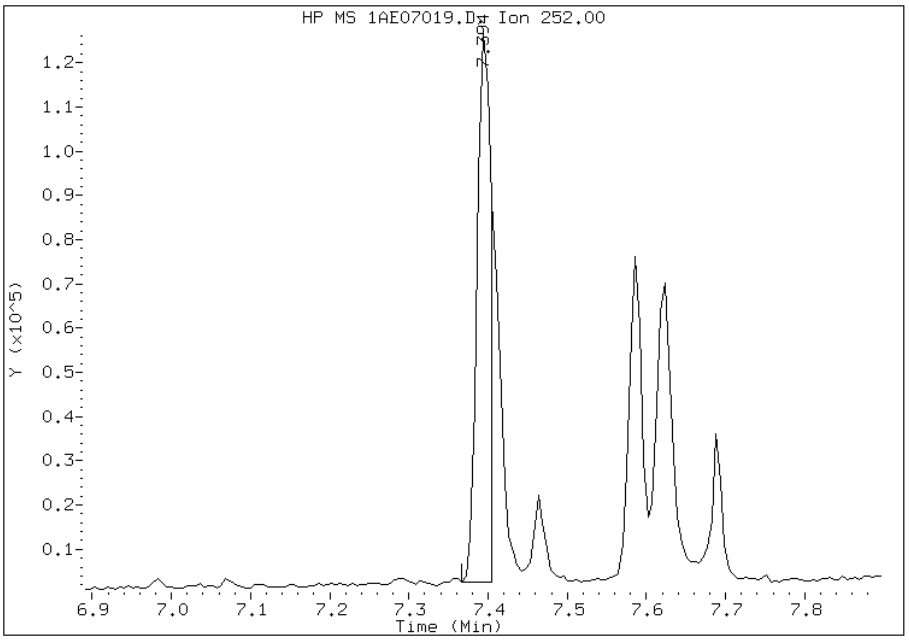
Manual Integration Results

RT: 7.39

Response: 149191

Amount: 5

Conc: 380



Manually Integrated By: cantins
Modification Date: 09-May-2013 12:23
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE07019.D
Inj. Date and Time: 07-MAY-2013 16:52
Instrument ID: BSMA5973.i
Client ID: CV1177B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

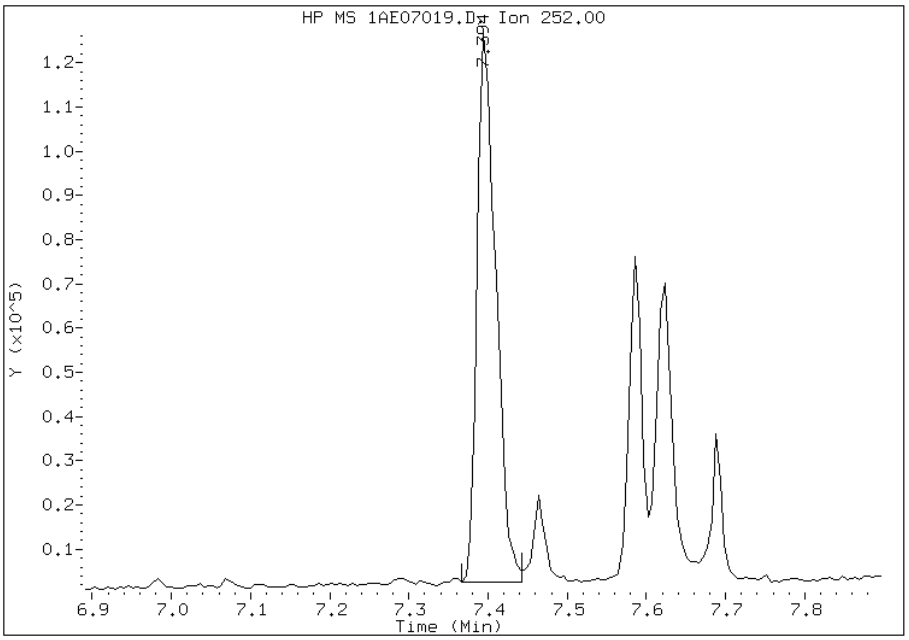
Processing Integration Results

RT: 7.39

Response: 201706

Amount: 5

Conc: 414



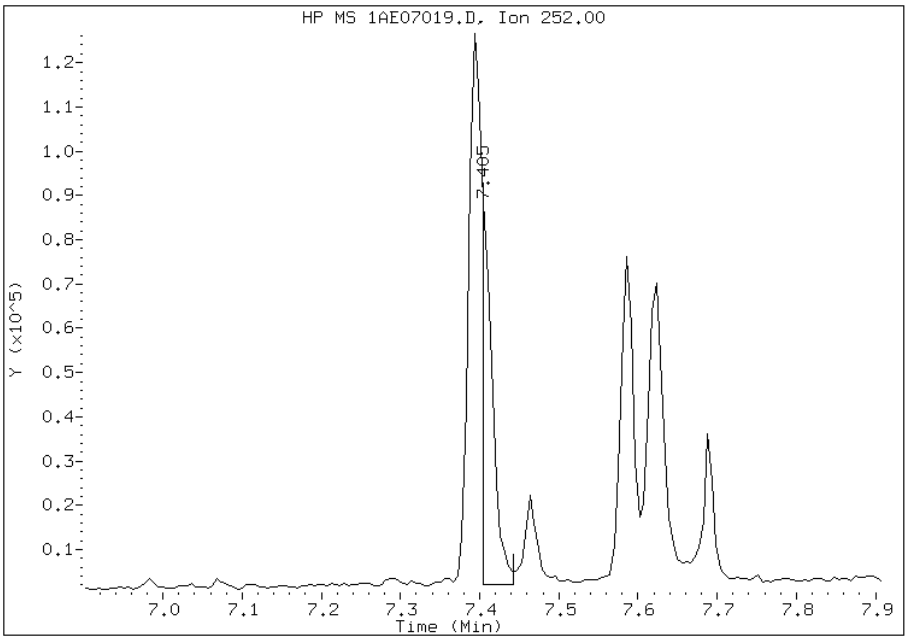
Manual Integration Results

RT: 7.40

Response: 81399

Amount: 2

Conc: 167



Manually Integrated By: cantins
Modification Date: 09-May-2013 12:24
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE07019.D
Inj. Date and Time: 07-MAY-2013 16:52
Instrument ID: BSMA5973.i
Client ID: CV1177B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

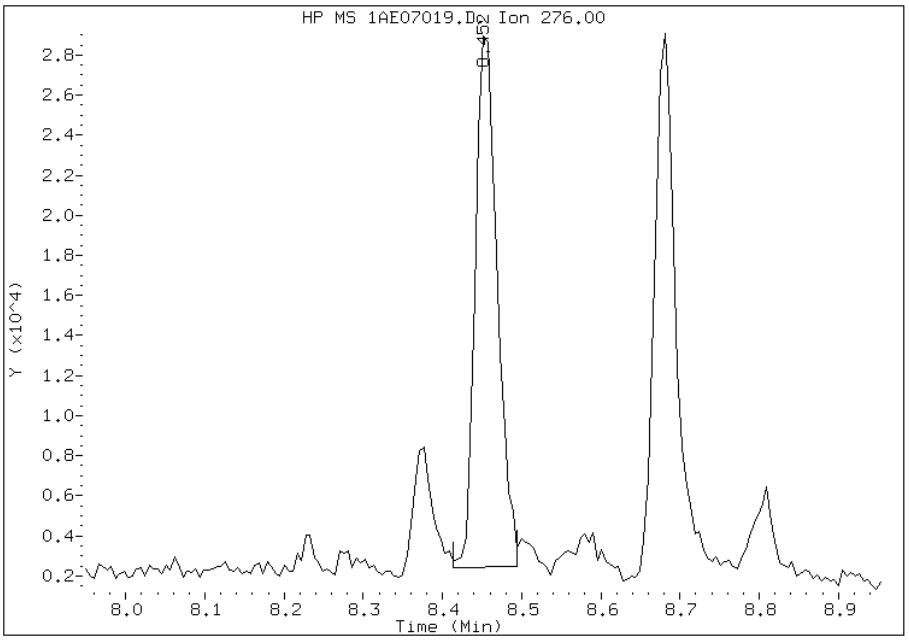
Processing Integration Results

RT: 8.45

Response: 50948

Amount: 2

Conc: 151



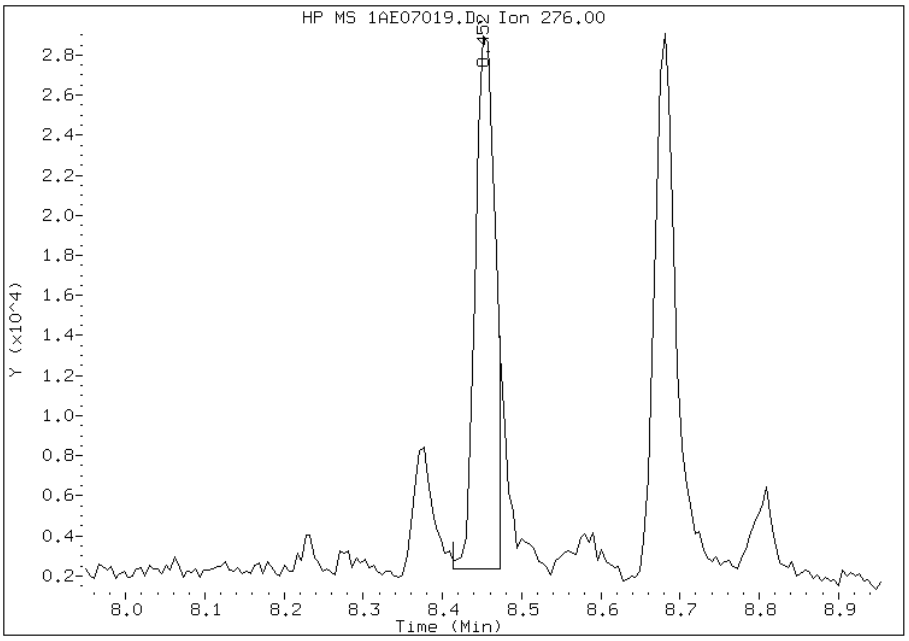
Manual Integration Results

RT: 8.45

Response: 46640

Amount: 2

Conc: 138



Manually Integrated By: cantins
Modification Date: 09-May-2013 12:24
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: CV1006A-CS | Lab Sample ID: 680-89985-16

Matrix: Solid | Lab File ID: 1AE07020.D

Analysis Method: 8270C LL | Date Collected: 05/02/2013 10:00

Extract. Method: 3546 | Date Extracted: 05/06/2013 08:14

Sample wt/vol: 15.43(g) | Date Analyzed: 05/07/2013 17:07

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

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

% Moisture: 20.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137194 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	180		49	6.1
120-12-7	Anthracene	190		10	5.1
56-55-3	Benzo[a]anthracene	240		9.7	4.7
50-32-8	Benzo[a]pyrene	190		13	6.3
205-99-2	Benzo[b]fluoranthene	310		15	7.4
191-24-2	Benzo[g,h,i]perylene	190		24	5.4
207-08-9	Benzo[k]fluoranthene	120		9.7	4.4
218-01-9	Chrysene	250		11	5.5
53-70-3	Dibenz(a,h)anthracene	50		24	5.0
206-44-0	Fluoranthene	400		24	4.9
86-73-7	Fluorene	24		24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	140		24	8.6
90-12-0	1-Methylnaphthalene	82		49	5.4
91-57-6	2-Methylnaphthalene	93		49	8.6
91-20-3	Naphthalene	64		49	5.4
85-01-8	Phenanthrene	270		9.7	4.7
129-00-0	Pyrene	290		24	4.5

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\1A050713.b\1AE07020.D
Lab Smp Id: 680-89985-A-16-A Client Smp ID: CV1006A-CS
Inj Date : 07-MAY-2013 17:07
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89985-a-16-a
Misc Info : 680-89985-A-16-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\a-bFASTPAHi-m.m
Meth Date : 07-May-2013 13:04 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.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	15.430	Weight Extracted
M	20.000	% 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	2.544	(1.000)	1238356	40.0000	
* 6 Acenaphthene-d10	164	3.588	3.575	(1.000)	674907	40.0000	
* 10 Phenanthrene-d10	188	4.544	4.526	(1.000)	969752	40.0000	
$ 14 o-Terphenyl	230	4.832	4.820	(1.063)	67356	4.85299	393.1460
* 18 Chrysene-d12	240	6.579	6.545	(1.000)	1100174	40.0000	(H)
* 23 Perylene-d12	264	7.674	7.630	(1.000)	1084952	40.0000	
2 Naphthalene	128	2.567	2.555	(1.004)	23134	0.79329	64.2648(M)
3 2-Methylnaphthalene	141	2.973	2.961	(1.163)	16978	1.14556	92.8031
4 1-Methylnaphthalene	142	3.027	3.014	(1.184)	18045	1.01581	82.2914
5 Acenaphthylene	152	3.497	3.484	(0.975)	71234	2.24619	181.9664
9 Fluorene	166	3.919	3.906	(1.092)	6028	0.29044	23.5286
11 Phenanthrene	178	4.555	4.537	(1.002)	80840	3.36485	272.5901
12 Anthracene	178	4.587	4.574	(1.009)	59820	2.33745	189.3592
13 Carbazole	167	4.731	4.707	(1.041)	16845	0.73207	59.3055

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.425	5.402	(1.194)	135425	4.89988	396.9439
16 Pyrene	202	5.591	5.568	(0.850)	125777	3.55666	288.1287(H)
17 Benzo(a)anthracene	228	6.569	6.529	(0.998)	90135	2.91514	236.1583
19 Chrysene	228	6.590	6.561	(1.002)	108389	3.11560	252.3982(H)
20 Benzo(b)fluoranthene	252	7.391	7.352	(0.963)	108755	3.79240	307.2260(M)
21 Benzo(k)fluoranthene	252	7.402	7.373	(0.965)	50708	1.42533	115.4671(QM)
22 Benzo(a)pyrene	252	7.621	7.576	(0.993)	70143	2.38167	192.9411
24 Indeno(1,2,3-cd)pyrene	276	8.449	8.388	(1.101)	42300	1.71445	138.8892(M)
25 Dibenzo(a,h)anthracene	278	8.465	8.410	(1.103)	15455	0.61109	49.5048
26 Benzo(g,h,i)perylene	276	8.673	8.602	(1.130)	62001	2.33687	189.3124

QC Flag Legend

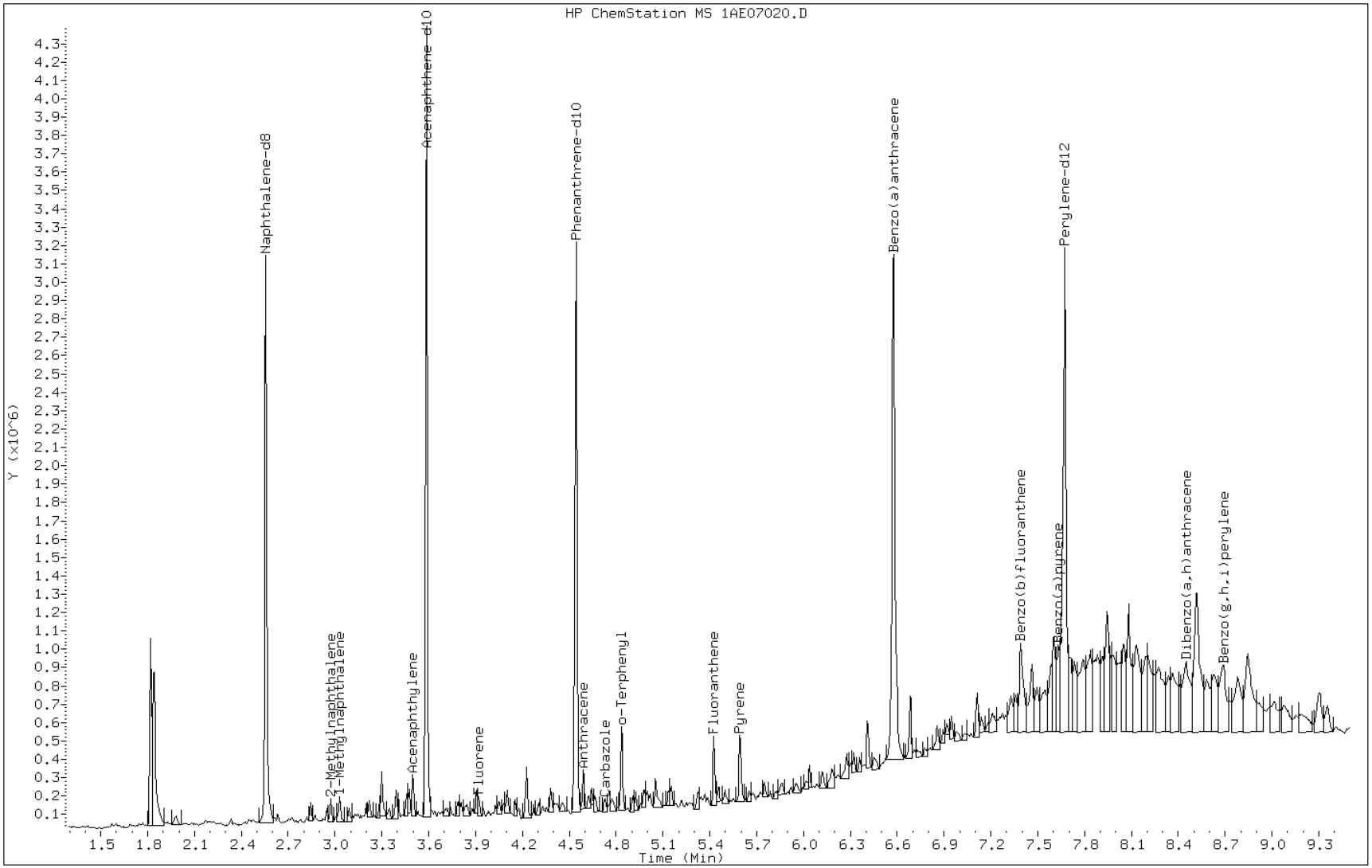
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AE07020.D

Date: 07-MAY-2013 17:07

Client ID: CV1006A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-16-a Operator: SCC



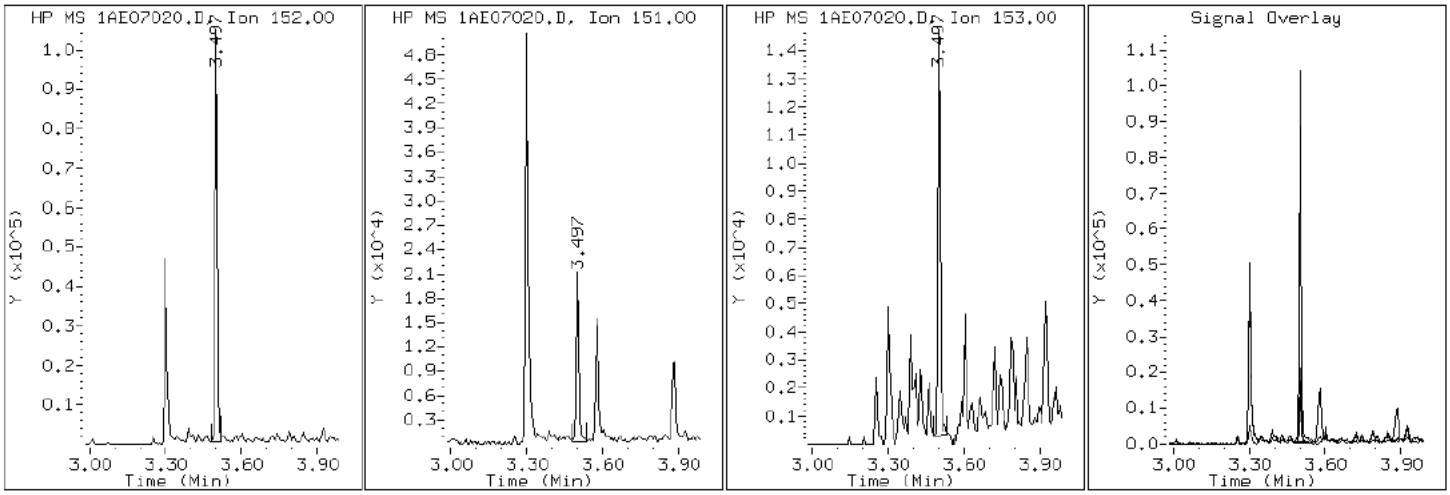
Data File: 1AE07020.D

Date: 07-MAY-2013 17:07

Client ID: CV1006A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-16-a Operator: SCC

5 Acenaphthylene



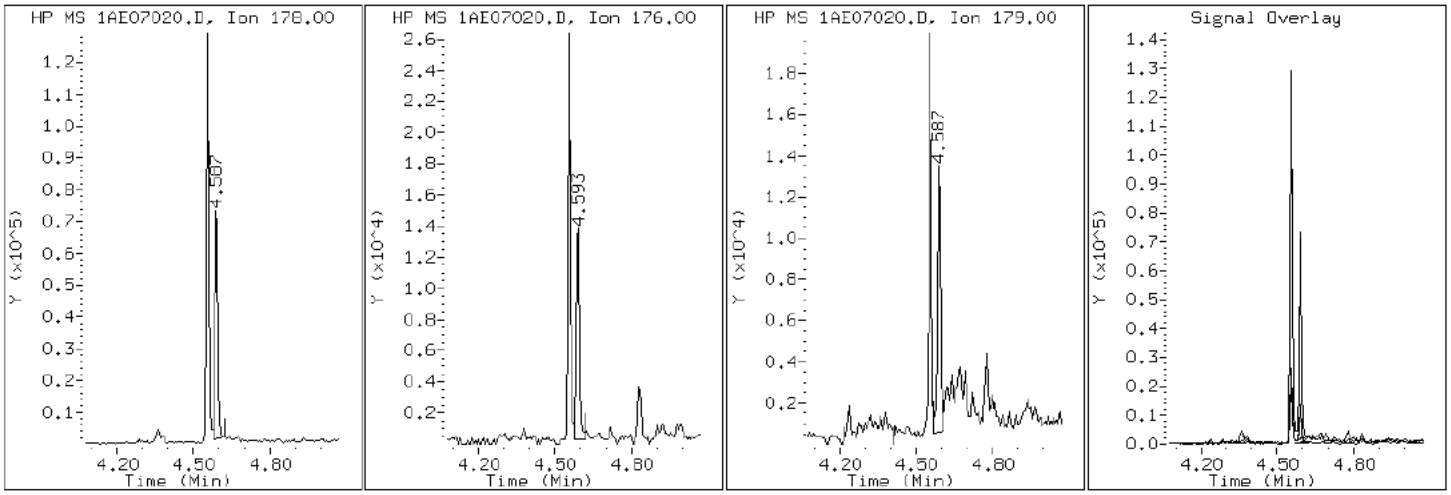
Data File: 1AE07020.D

Date: 07-MAY-2013 17:07

Client ID: CV1006A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-16-a Operator: SCC

12 Anthracene



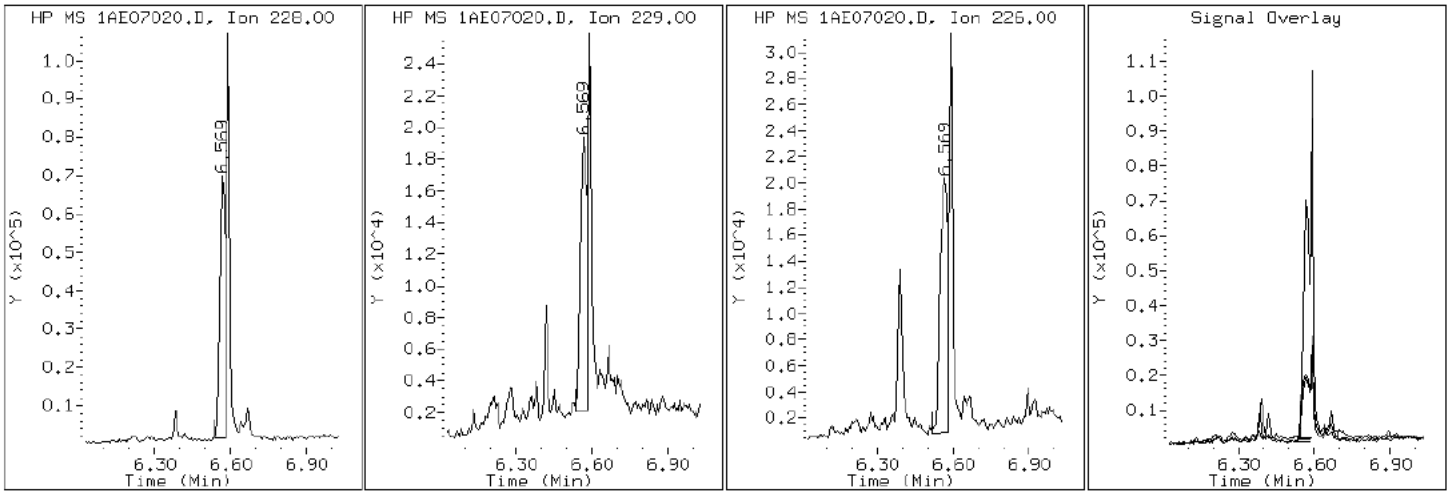
Data File: 1AE07020.D

Date: 07-MAY-2013 17:07

Client ID: CV1006A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-16-a Operator: SCC

17 Benzo(a)anthracene



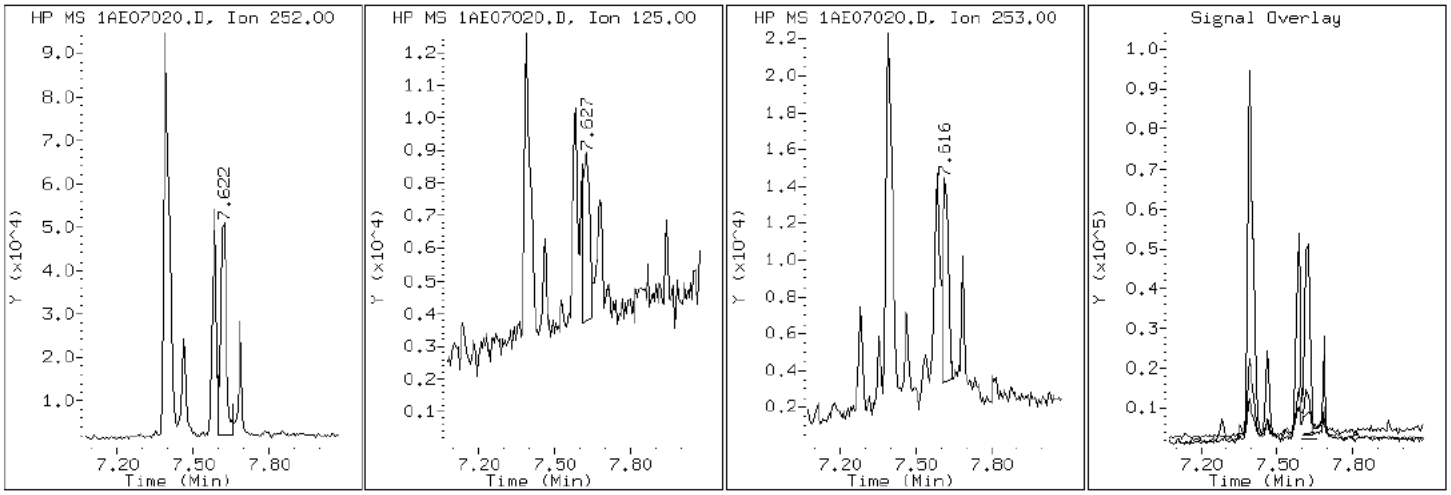
Data File: 1AE07020.D

Date: 07-MAY-2013 17:07

Client ID: CV1006A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-16-a Operator: SCC

22 Benzo(a)pyrene



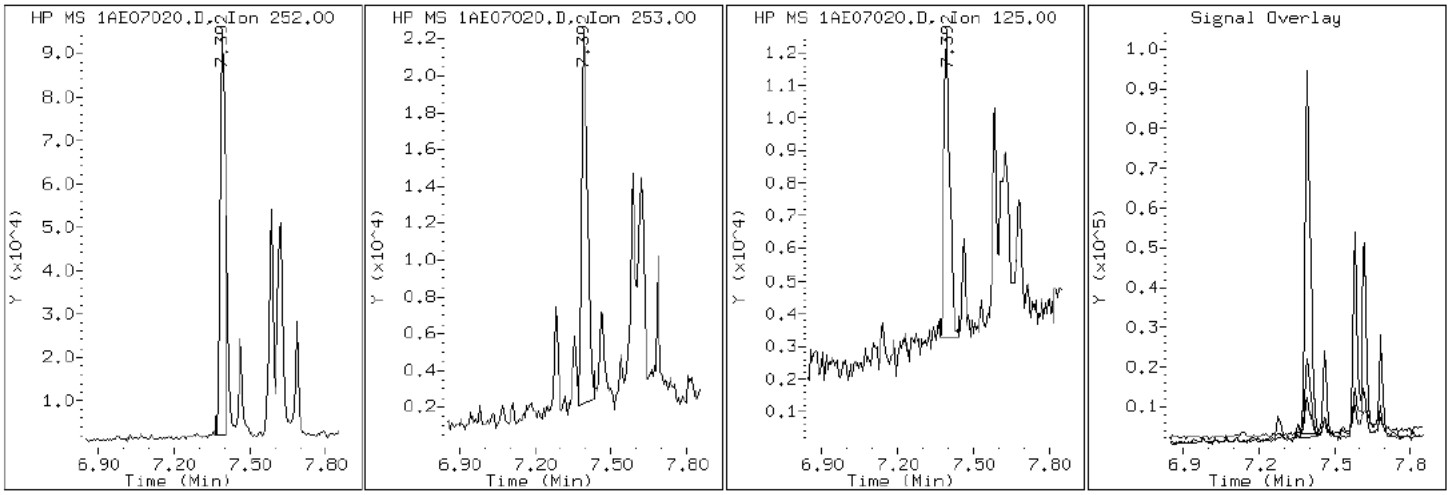
Data File: 1AE07020.D

Date: 07-MAY-2013 17:07

Client ID: CV1006A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-16-a Operator: SCC

20 Benzo(b)fluoranthene



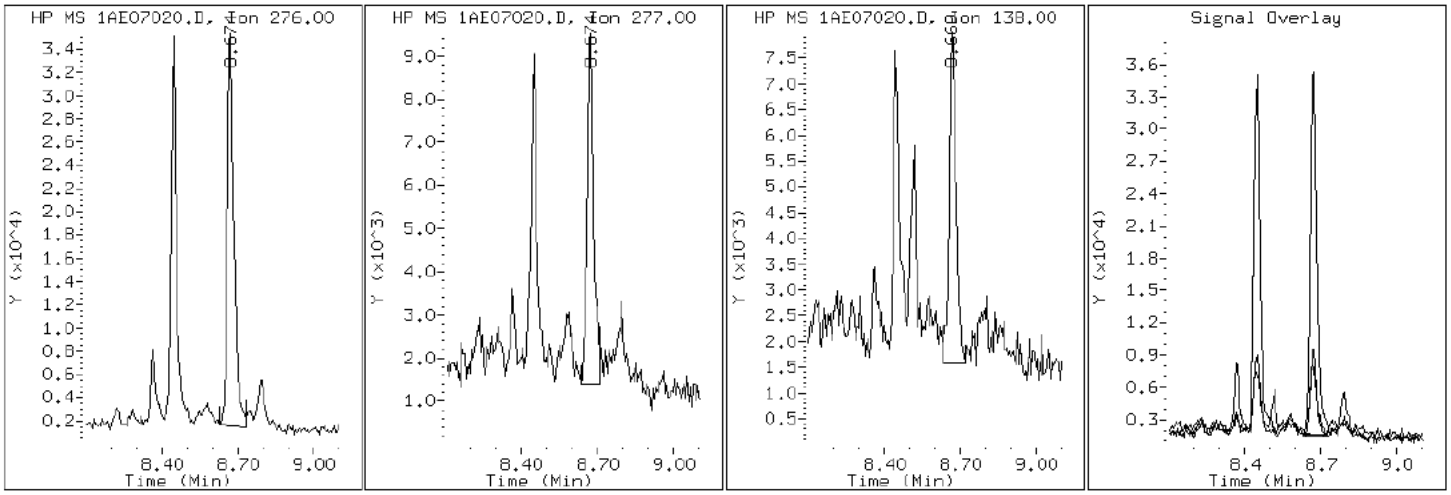
Data File: 1AE07020.D

Date: 07-MAY-2013 17:07

Client ID: CV1006A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-16-a Operator: SCC

26 Benzo(g,h,i)perylene



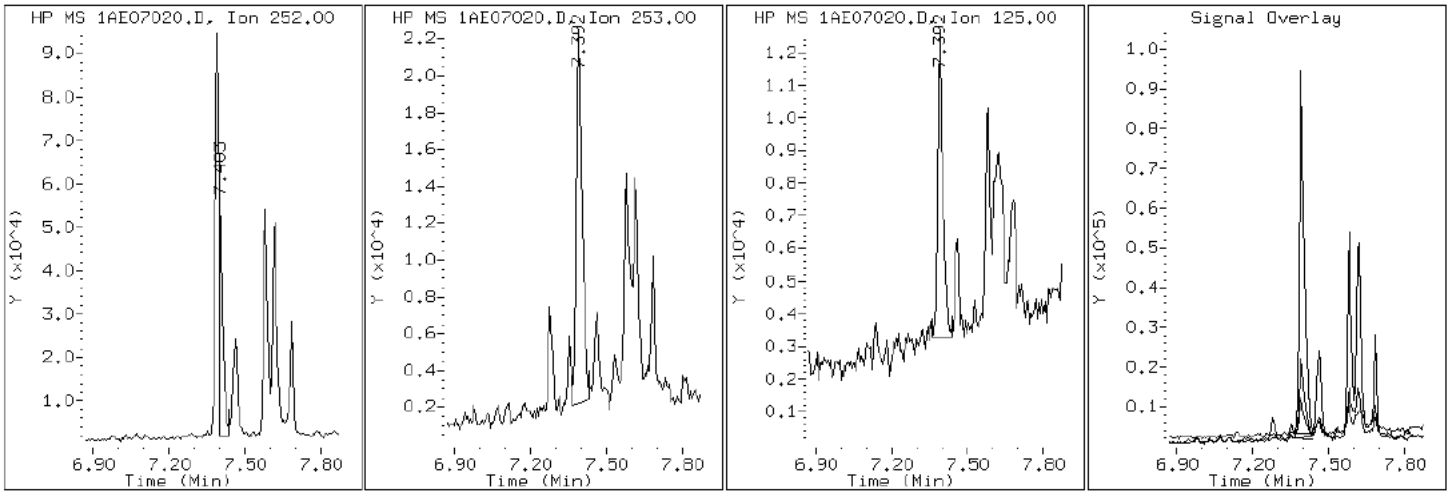
Data File: 1AE07020.D

Date: 07-MAY-2013 17:07

Client ID: CV1006A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-16-a Operator: SCC

21 Benzo(k)fluoranthene



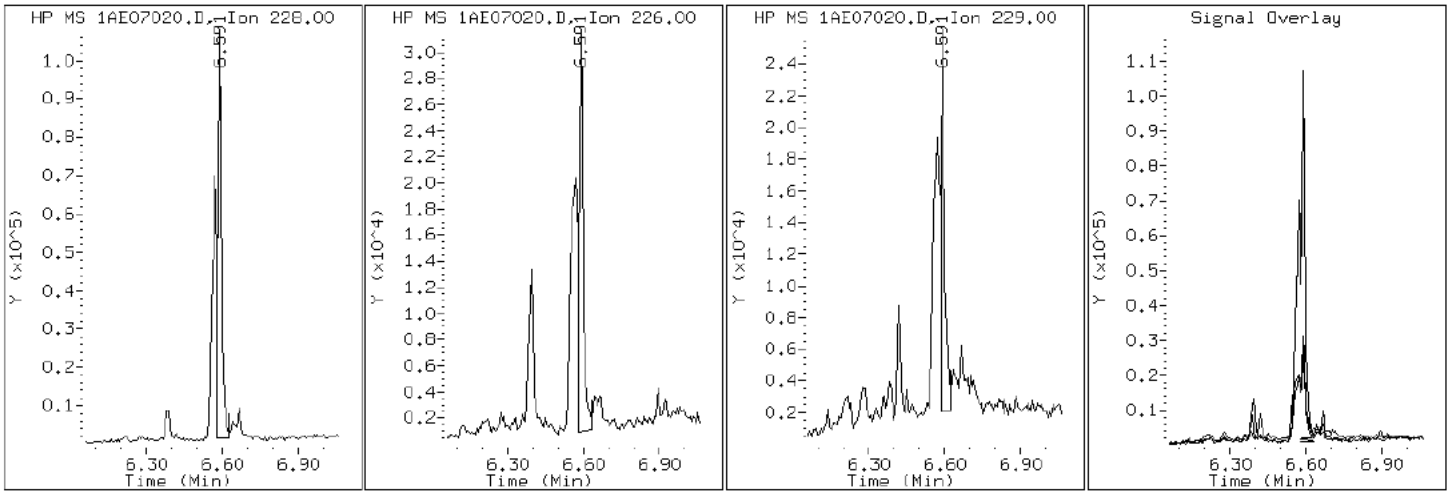
Data File: 1AE07020.D

Date: 07-MAY-2013 17:07

Client ID: CV1006A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-16-a Operator: SCC

19 Chrysene



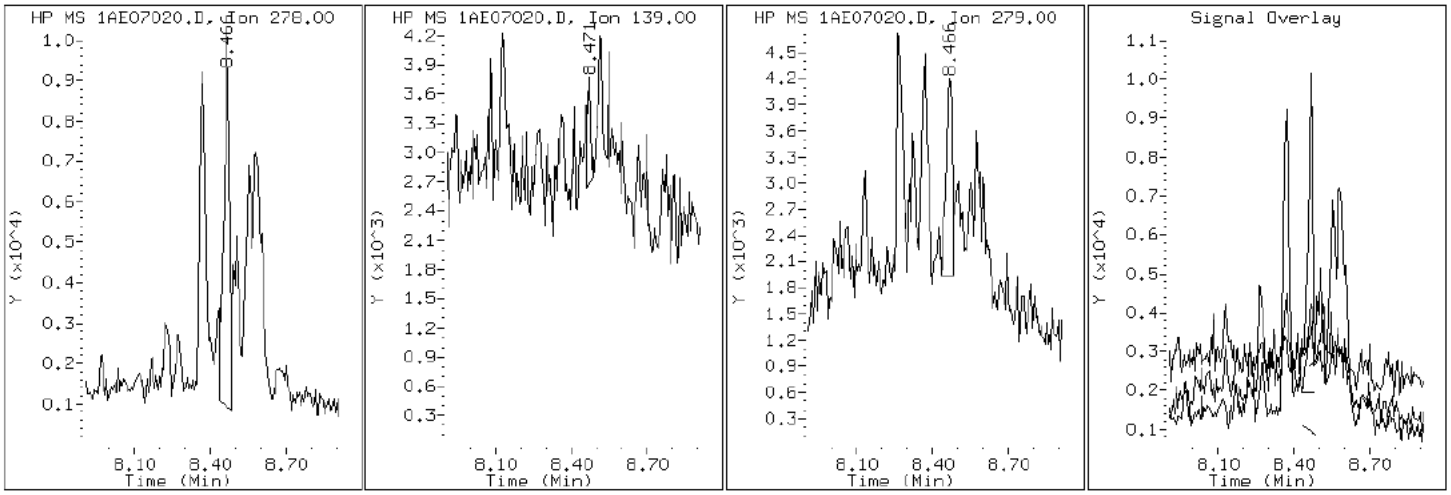
Data File: 1AE07020.D

Date: 07-MAY-2013 17:07

Client ID: CV1006A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-16-a Operator: SCC

25 Dibenzo(a,h)anthracene



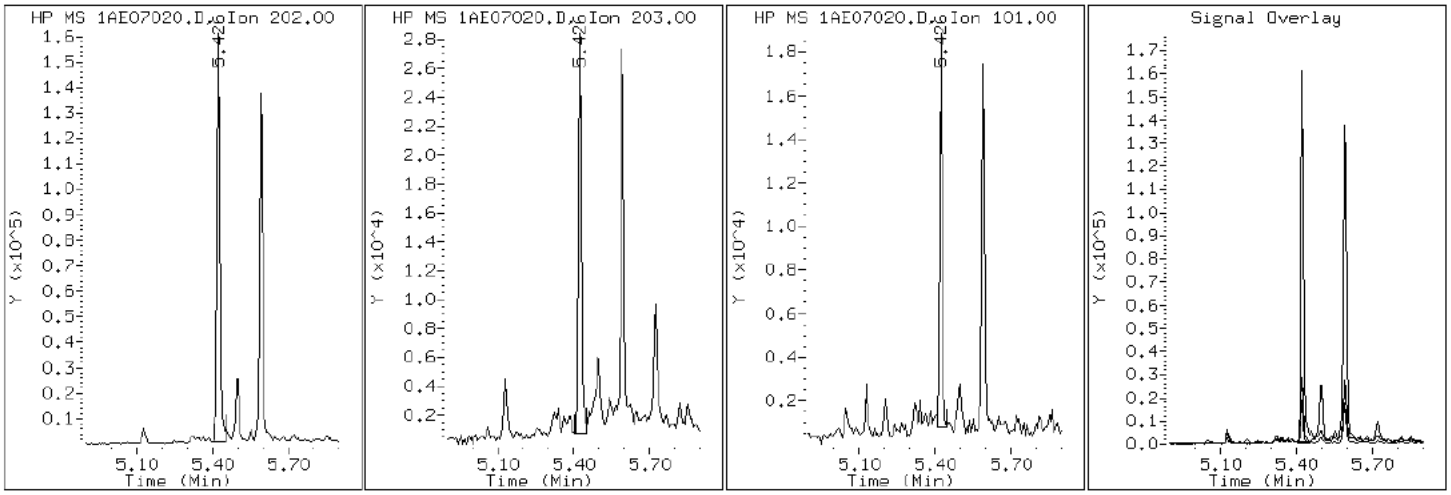
Data File: 1AE07020.D

Date: 07-MAY-2013 17:07

Client ID: CV1006A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-16-a Operator: SCC

15 Fluoranthene



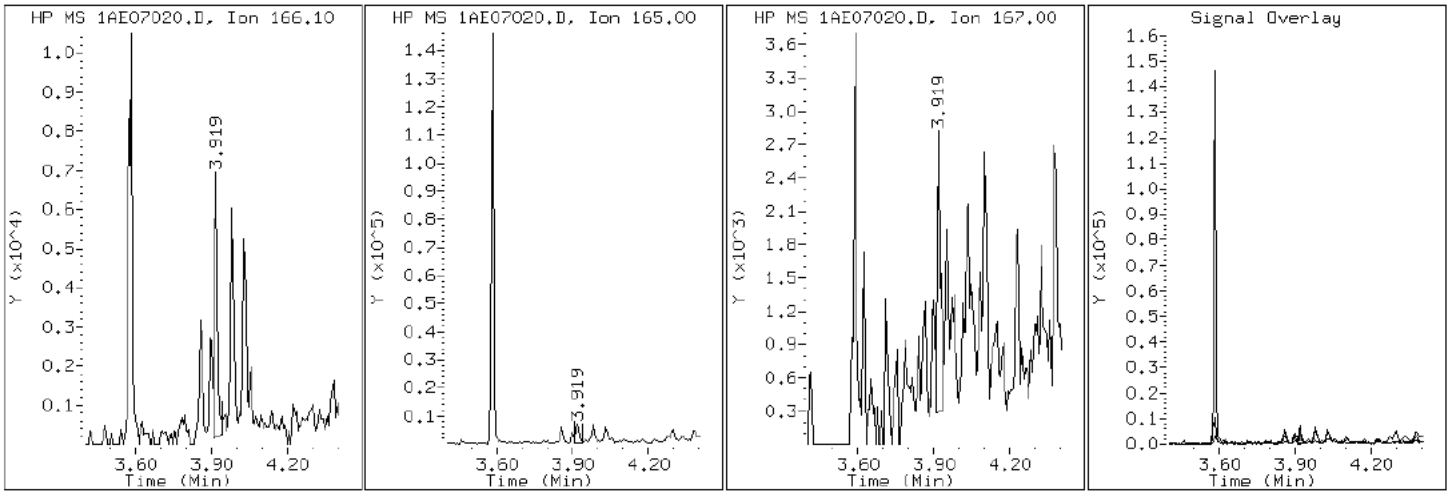
Data File: 1AE07020.D

Date: 07-MAY-2013 17:07

Client ID: CV1006A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-16-a Operator: SCC

9 Fluorene



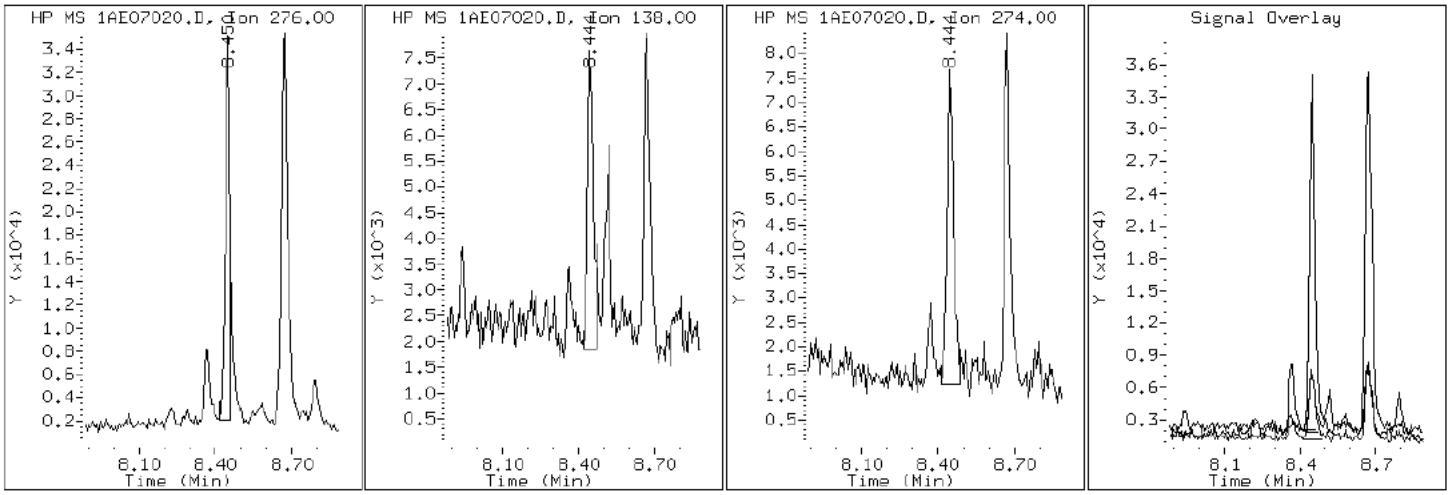
Data File: 1AE07020.D

Date: 07-MAY-2013 17:07

Client ID: CV1006A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-16-a Operator: SCC

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



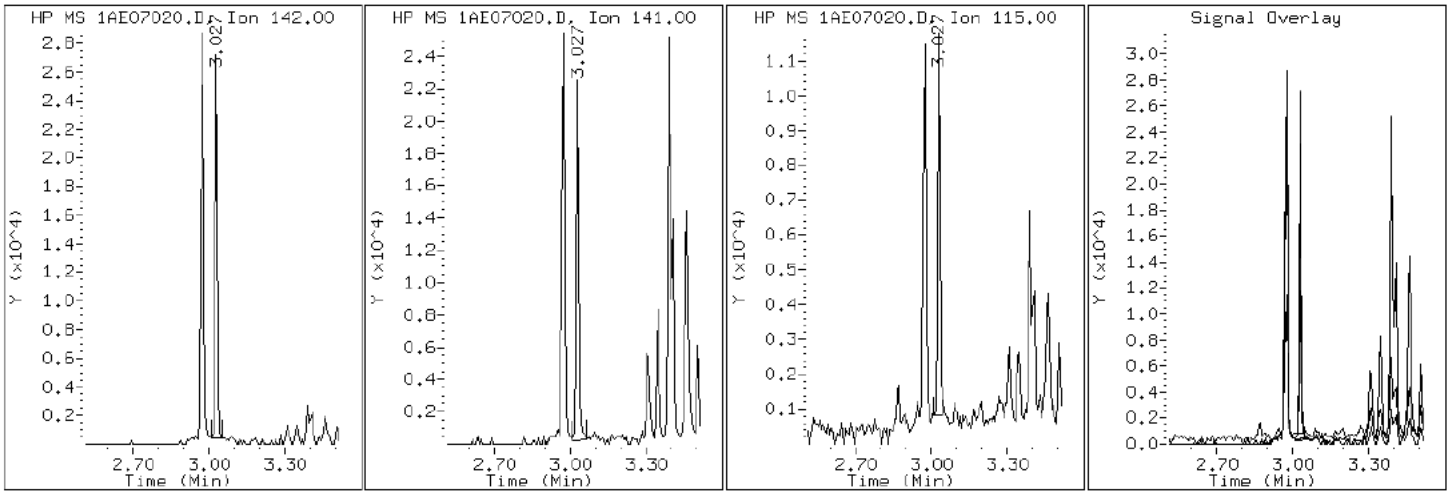
Data File: 1AE07020.D

Date: 07-MAY-2013 17:07

Client ID: CV1006A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-16-a Operator: SCC

4 1-Methylnaphthalene



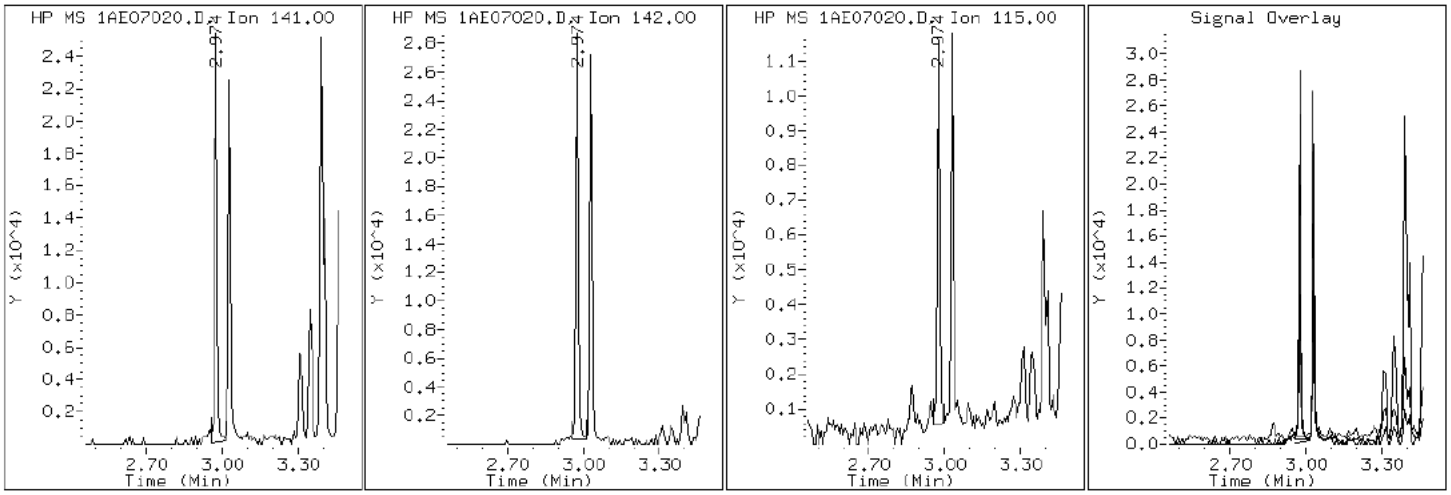
Data File: 1AE07020.D

Date: 07-MAY-2013 17:07

Client ID: CV1006A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-16-a Operator: SCC

3 2-Methylnaphthalene



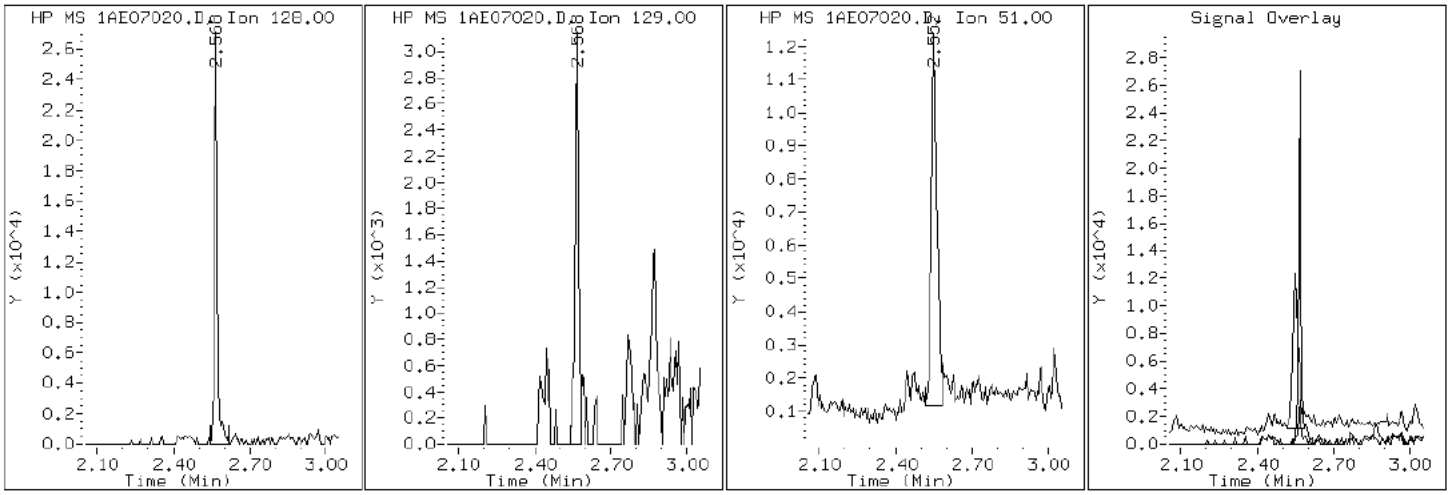
Data File: 1AE07020.D

Date: 07-MAY-2013 17:07

Client ID: CV1006A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-16-a Operator: SCC

2 Naphthalene



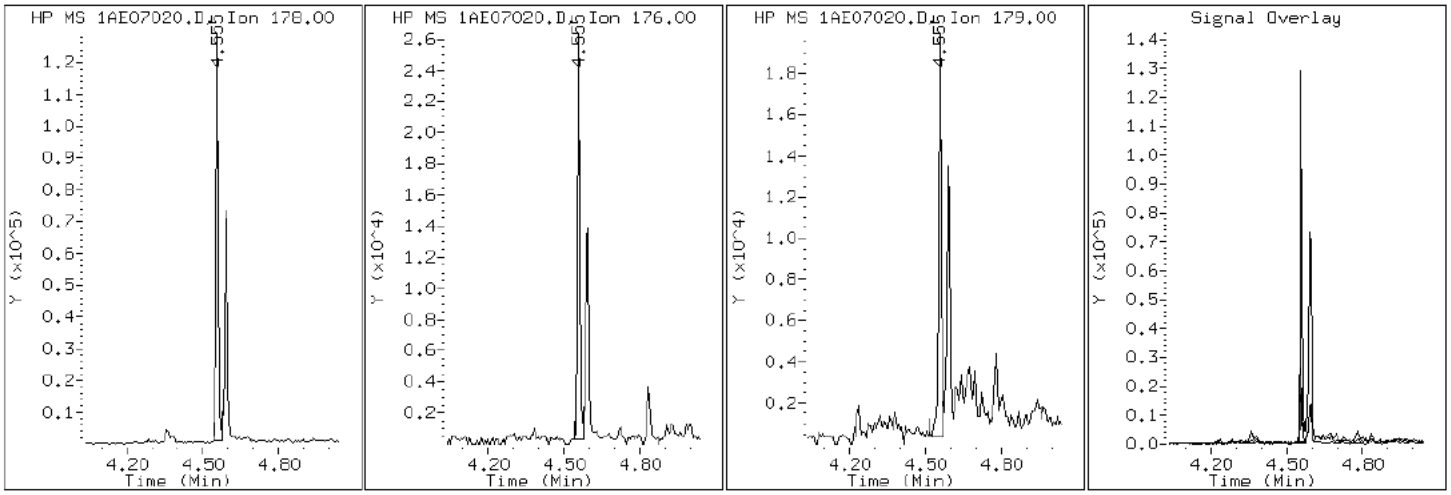
Data File: 1AE07020.D

Date: 07-MAY-2013 17:07

Client ID: CV1006A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-16-a Operator: SCC

11 Phenanthrene



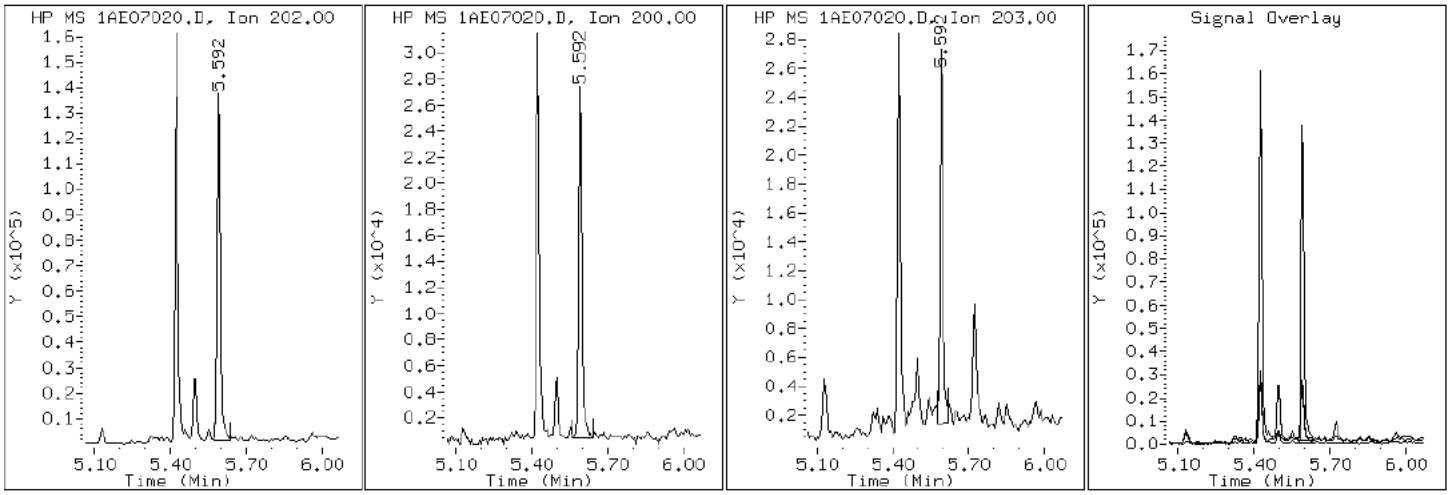
Data File: 1AE07020.D

Date: 07-MAY-2013 17:07

Client ID: CV1006A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-16-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE07020.D
Inj. Date and Time: 07-MAY-2013 17:07
Instrument ID: BSMA5973.i
Client ID: CV1006A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

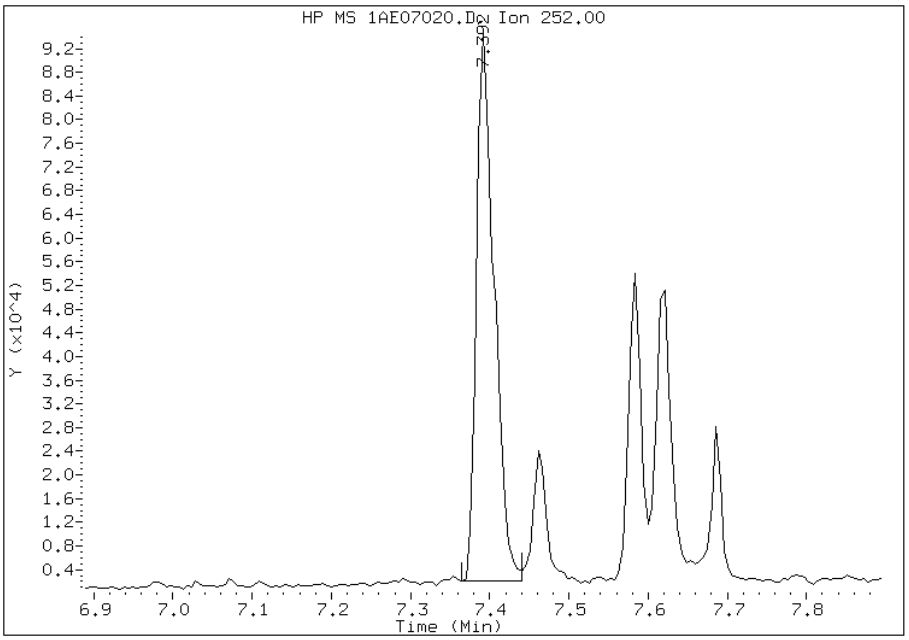
Processing Integration Results

RT: 7.39

Response: 141264

Amount: 5

Conc: 399



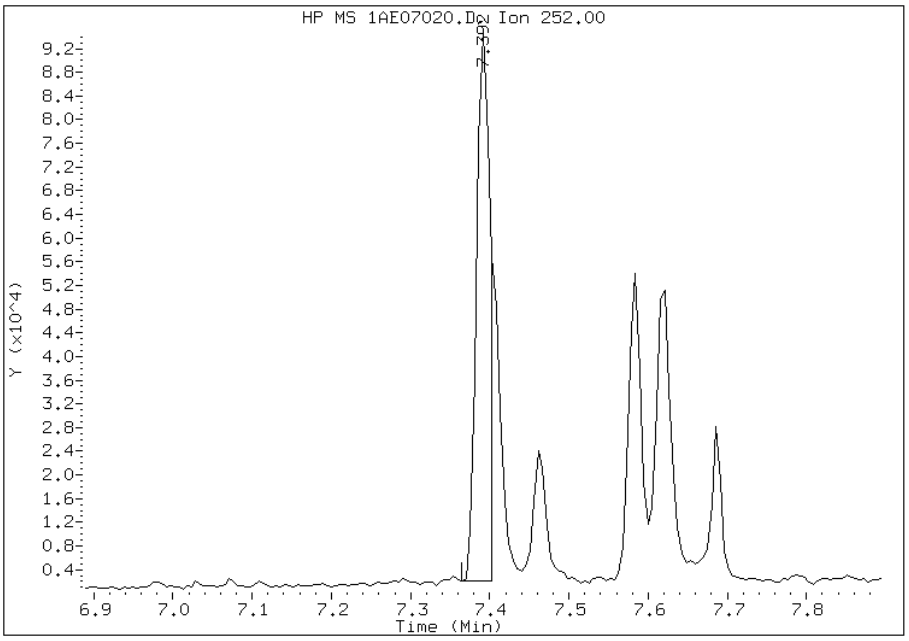
Manual Integration Results

RT: 7.39

Response: 108755

Amount: 4

Conc: 307



Manually Integrated By: cantins
Modification Date: 09-May-2013 12:25
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE07020.D
Inj. Date and Time: 07-MAY-2013 17:07
Instrument ID: BSMA5973.i
Client ID: CV1006A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

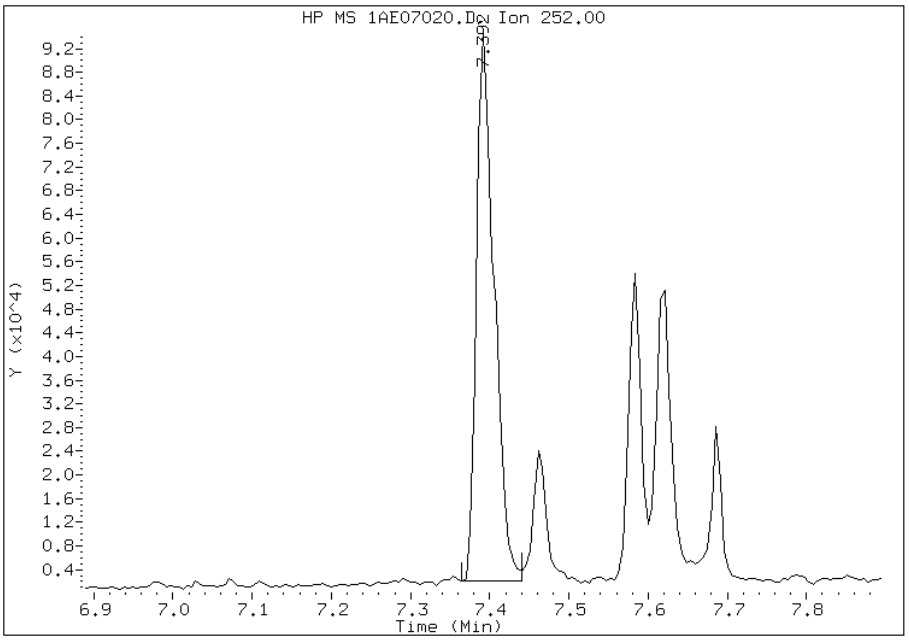
Processing Integration Results

RT: 7.39

Response: 141264

Amount: 4

Conc: 322



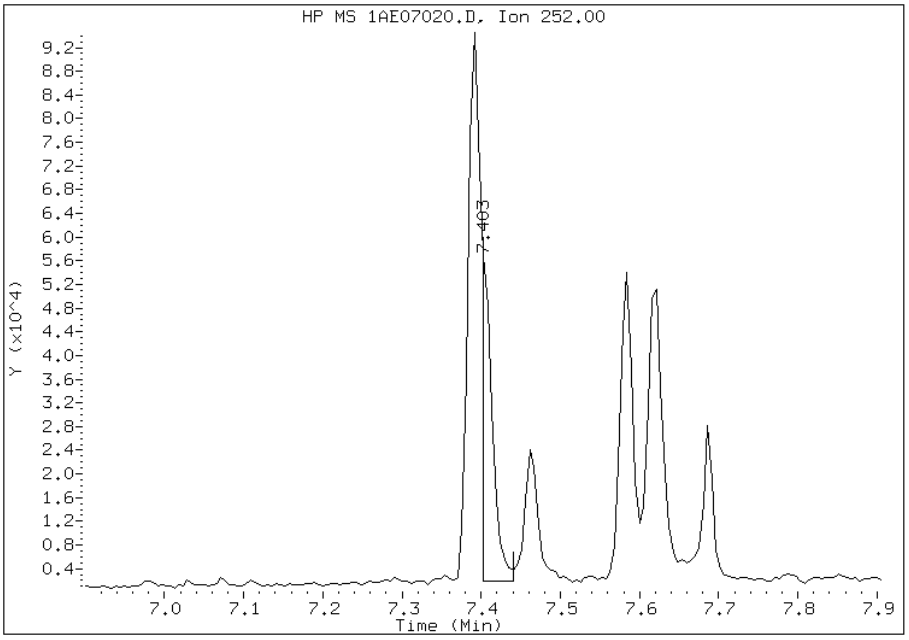
Manual Integration Results

RT: 7.40

Response: 50708

Amount: 1

Conc: 115



Manually Integrated By: cantins
Modification Date: 09-May-2013 12:26
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE07020.D
Inj. Date and Time: 07-MAY-2013 17:07
Instrument ID: BSMA5973.i
Client ID: CV1006A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

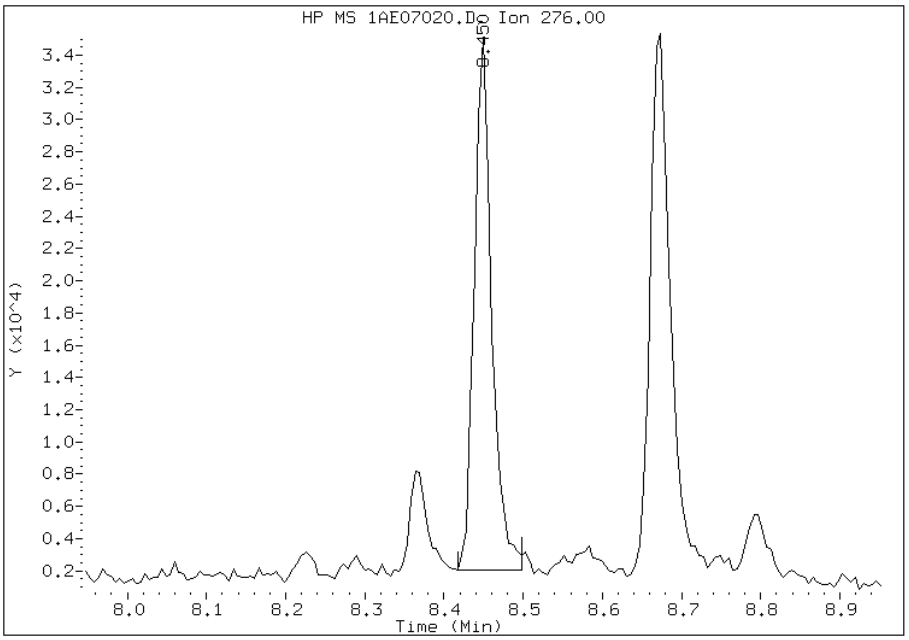
Processing Integration Results

RT: 8.45

Response: 49723

Amount: 2

Conc: 163



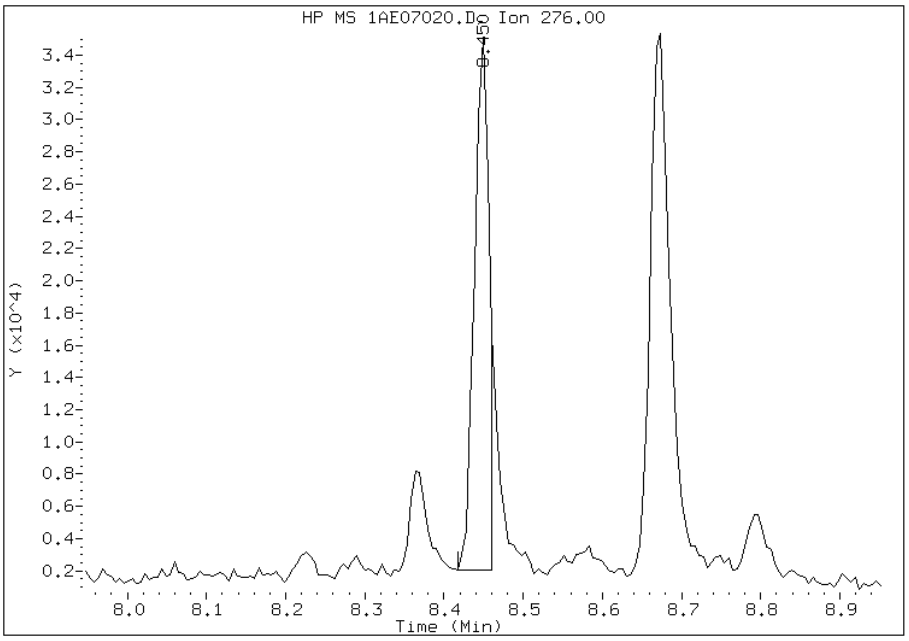
Manual Integration Results

RT: 8.45

Response: 42300

Amount: 2

Conc: 139



Manually Integrated By: cantins
Modification Date: 09-May-2013 12:26
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE07020.D
Inj. Date and Time: 07-MAY-2013 17:07
Instrument ID: BSMA5973.i
Client ID: CV1006A-CS
Compound: 2 Naphthalene
CAS #: 91-20-3
Report Date: 05/09/2013

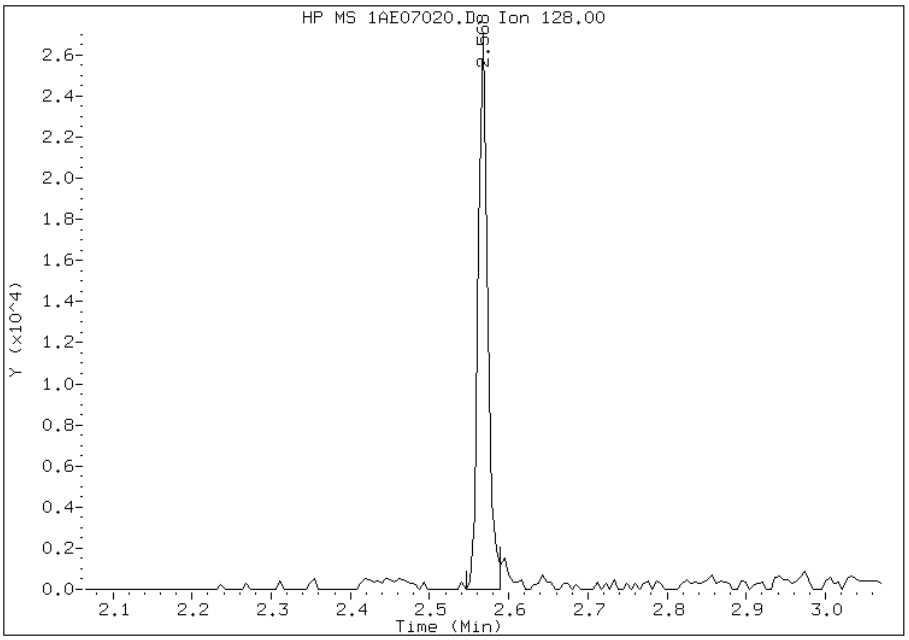
Processing Integration Results

RT: 2.57

Response: 22012

Amount: 1

Conc: 61



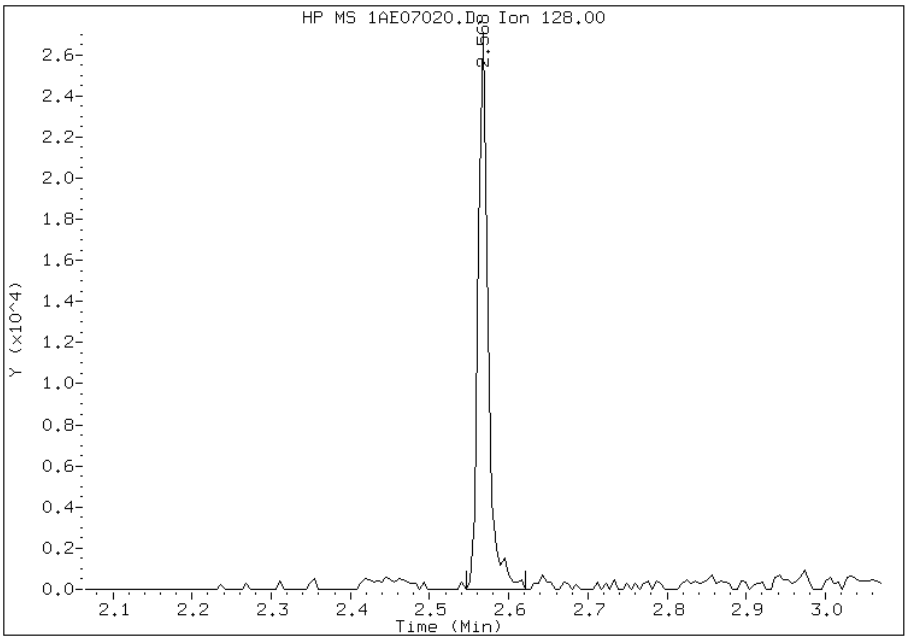
Manual Integration Results

RT: 2.57

Response: 23134

Amount: 1

Conc: 64



Manually Integrated By: cantins
Modification Date: 09-May-2013 12:25
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: CV1006B-CS | Lab Sample ID: 680-89985-17

Matrix: Solid | Lab File ID: 1AE07021.D

Analysis Method: 8270C LL | Date Collected: 05/02/2013 10:10

Extract. Method: 3546 | Date Extracted: 05/06/2013 08:14

Sample wt/vol: 15.37(g) | Date Analyzed: 05/07/2013 17:22

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

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

% Moisture: 20.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137194 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	55		49	6.2
120-12-7	Anthracene	85		10	5.2
56-55-3	Benzo[a]anthracene	180		9.9	4.8
50-32-8	Benzo[a]pyrene	140		13	6.4
205-99-2	Benzo[b]fluoranthene	250		15	7.5
191-24-2	Benzo[g,h,i]perylene	75		25	5.4
207-08-9	Benzo[k]fluoranthene	88		9.9	4.4
218-01-9	Chrysene	170		11	5.6
53-70-3	Dibenz(a,h)anthracene	26		25	5.1
206-44-0	Fluoranthene	240		25	4.9
86-73-7	Fluorene	16	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	83		25	8.8
90-12-0	1-Methylnaphthalene	64		49	5.4
91-57-6	2-Methylnaphthalene	86		49	8.8
91-20-3	Naphthalene	72		49	5.4
85-01-8	Phenanthrene	180		9.9	4.8
129-00-0	Pyrene	190		25	4.6

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\1A050713.b\1AE07021.D
Lab Smp Id: 680-89985-A-17-A Client Smp ID: CV1006B-CS
Inj Date : 07-MAY-2013 17:22
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89985-a-17-a
Misc Info : 680-89985-A-17-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\a-bFASTPAHi-m.m
Meth Date : 07-May-2013 13:04 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 21
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	15.370	Weight Extracted
M	21.000	% 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	2.544	(1.000)	1285250	40.0000	
*	6 Acenaphthene-d10	164	3.589	3.575	(1.000)	675415	40.0000	
*	10 Phenanthrene-d10	188	4.545	4.526	(1.000)	1026699	40.0000	
$	14 o-Terphenyl	230	4.833	4.820	(1.063)	85622	5.82688	479.8831
*	18 Chrysene-d12	240	6.580	6.545	(1.000)	1105170	40.0000	
*	23 Perylene-d12	264	7.675	7.630	(1.000)	1061082	40.0000	
	2 Naphthalene	128	2.568	2.555	(1.004)	26327	0.86984	71.6369(Q)
	3 2-Methylnaphthalene	141	2.974	2.961	(1.163)	16091	1.04610	86.1532
	4 1-Methylnaphthalene	142	3.028	3.014	(1.184)	14276	0.77432	63.7701
	5 Acenaphthylene	152	3.498	3.484	(0.975)	21210	0.66830	55.0393
	9 Fluorene	166	3.920	3.906	(1.092)	4044	0.19470	16.0347
	11 Phenanthrene	178	4.555	4.537	(1.002)	56891	2.23666	184.2043
	12 Anthracene	178	4.588	4.574	(1.009)	28021	1.03418	85.1718
	13 Carbazole	167	4.732	4.707	(1.041)	11730	0.48150	39.6547

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	5.426	5.402	(1.194)	86918	2.97039	244.6316
16 Pyrene	202	5.592	5.568	(0.850)	82443	2.32074	191.1289
17 Benzo(a)anthracene	228	6.569	6.529	(0.998)	67840	2.18416	179.8800
19 Chrysene	228	6.591	6.561	(1.002)	74004	2.11760	174.3988
20 Benzo(b)fluoranthene	252	7.392	7.352	(0.963)	85991	3.06605	252.5098(M)
21 Benzo(k)fluoranthene	252	7.403	7.373	(0.965)	37255	1.07074	88.1826(QM)
22 Benzo(a)pyrene	252	7.617	7.576	(0.992)	50485	1.75275	144.3508
24 Indeno(1,2,3-cd)pyrene	276	8.450	8.388	(1.101)	24276	1.00606	82.8556(M)
25 Dibenzo(a,h)anthracene	278	8.466	8.410	(1.103)	7929	0.32056	26.4006
26 Benzo(g,h,i)perylene	276	8.674	8.602	(1.130)	23537	0.90709	74.7047

QC Flag Legend

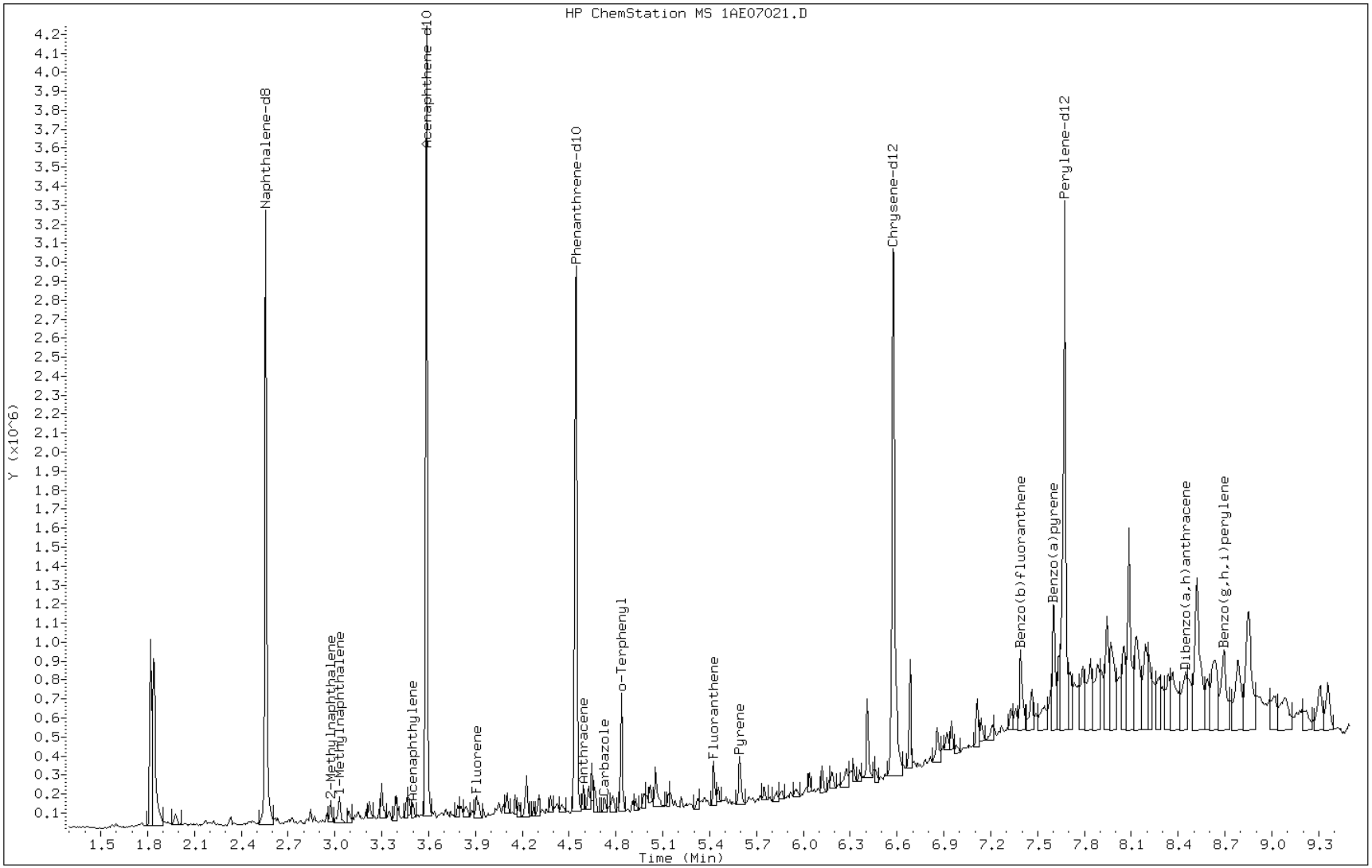
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE07021.D

Date: 07-MAY-2013 17:22

Client ID: CV1006B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-17-a Operator: SCC



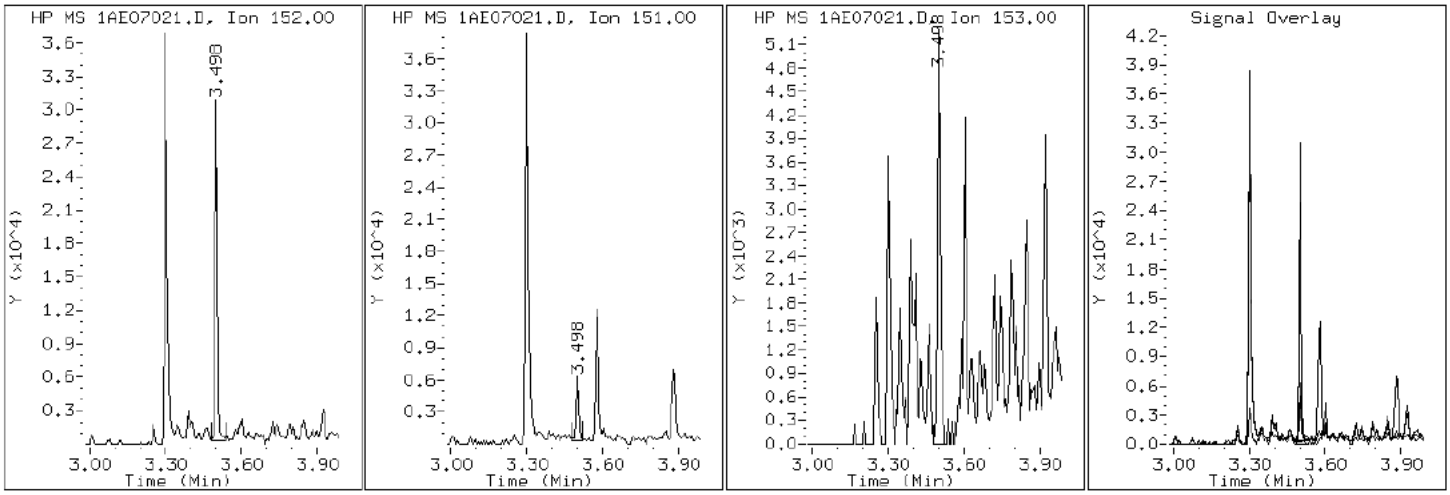
Data File: 1AE07021.D

Date: 07-MAY-2013 17:22

Client ID: CV1006B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-17-a Operator: SCC

5 Acenaphthylene



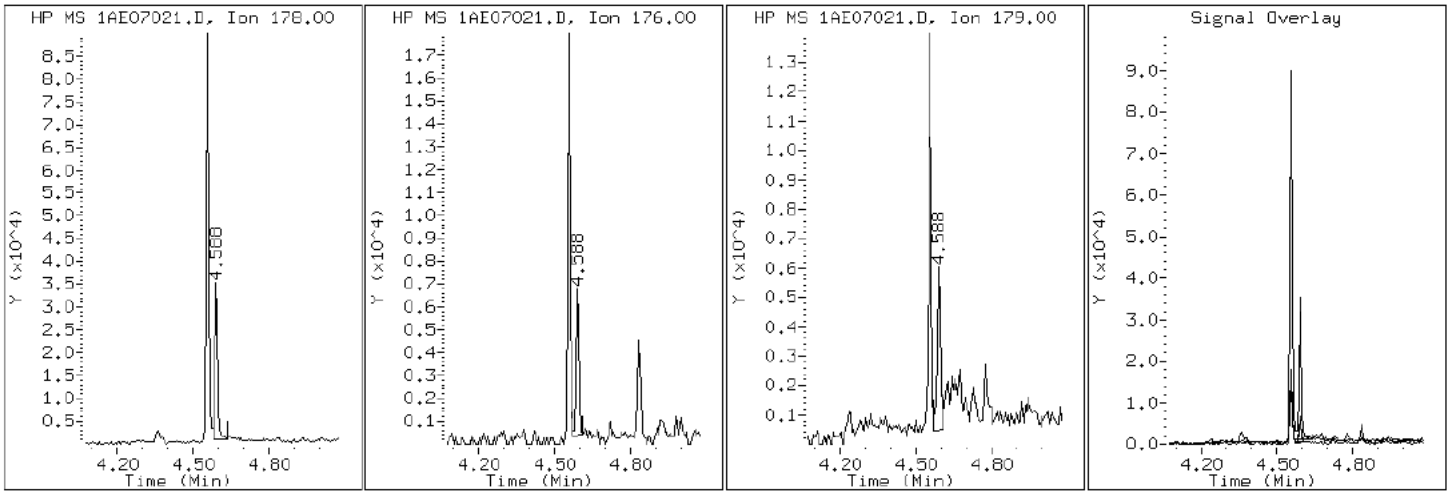
Data File: 1AE07021.D

Date: 07-MAY-2013 17:22

Client ID: CV1006B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-17-a Operator: SCC

12 Anthracene



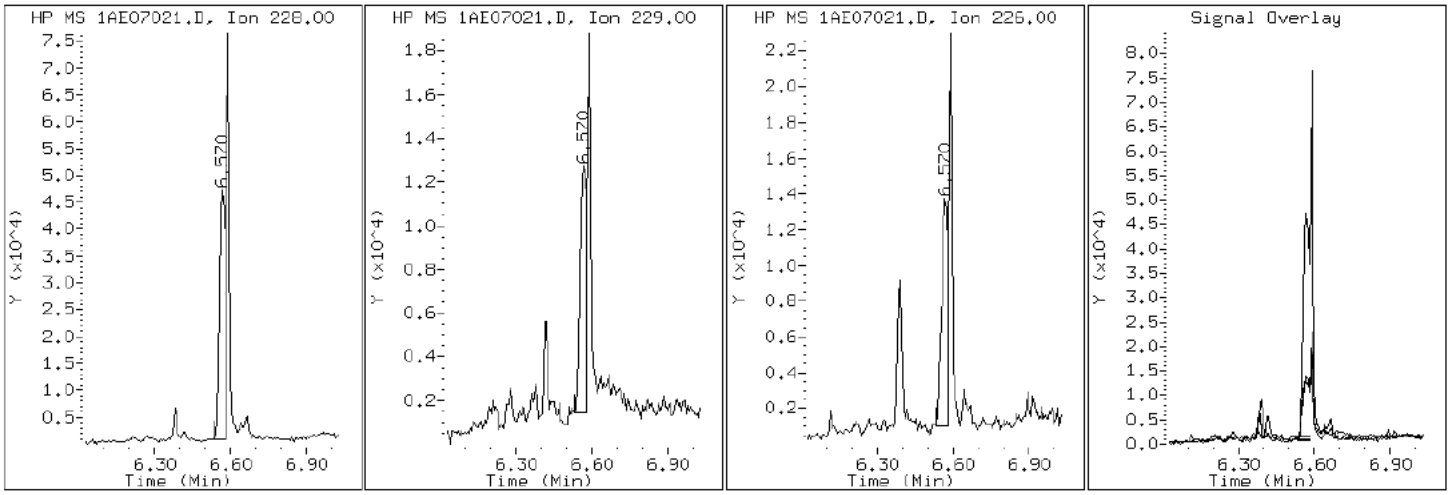
Data File: 1AE07021.D

Date: 07-MAY-2013 17:22

Client ID: CV1006B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-17-a Operator: SCC

17 Benzo(a)anthracene



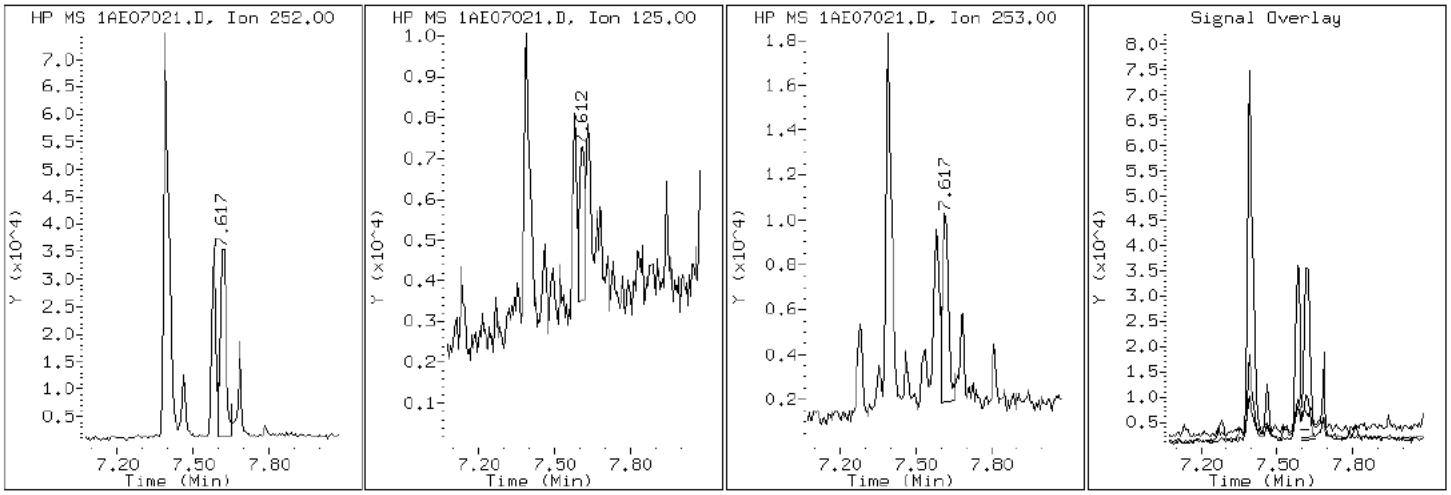
Data File: 1AE07021.D

Date: 07-MAY-2013 17:22

Client ID: CV1006B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-17-a Operator: SCC

22 Benzo(a)pyrene



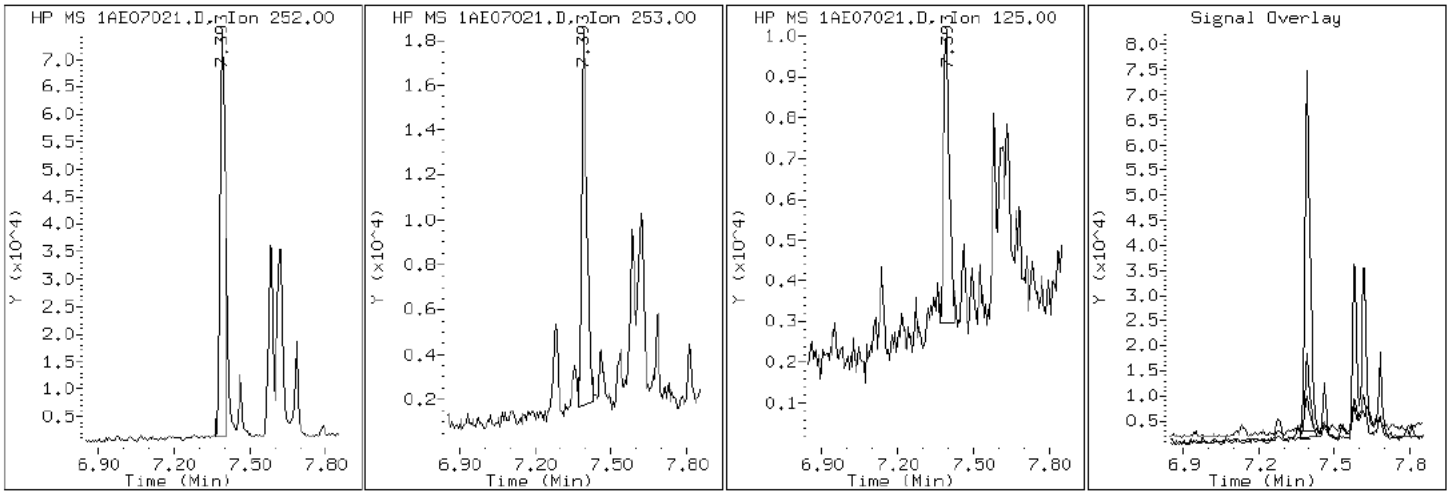
Data File: 1AE07021.D

Date: 07-MAY-2013 17:22

Client ID: CV1006B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-17-a Operator: SCC

20 Benzo(b)fluoranthene



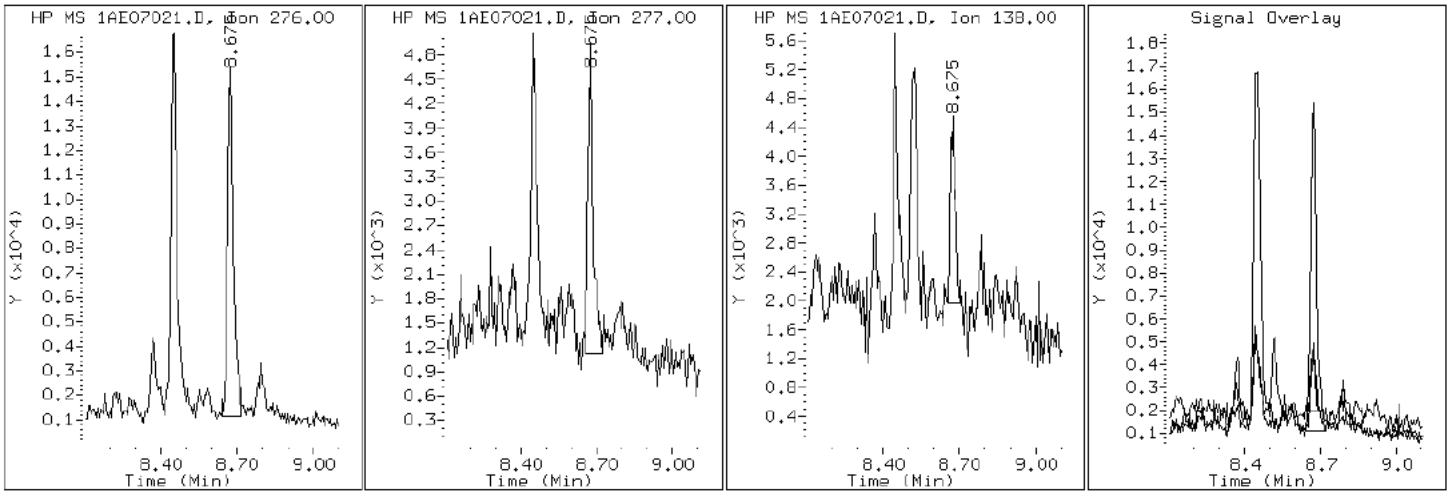
Data File: 1AE07021.D

Date: 07-MAY-2013 17:22

Client ID: CV1006B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-17-a Operator: SCC

26 Benzo(g,h,i)perylene



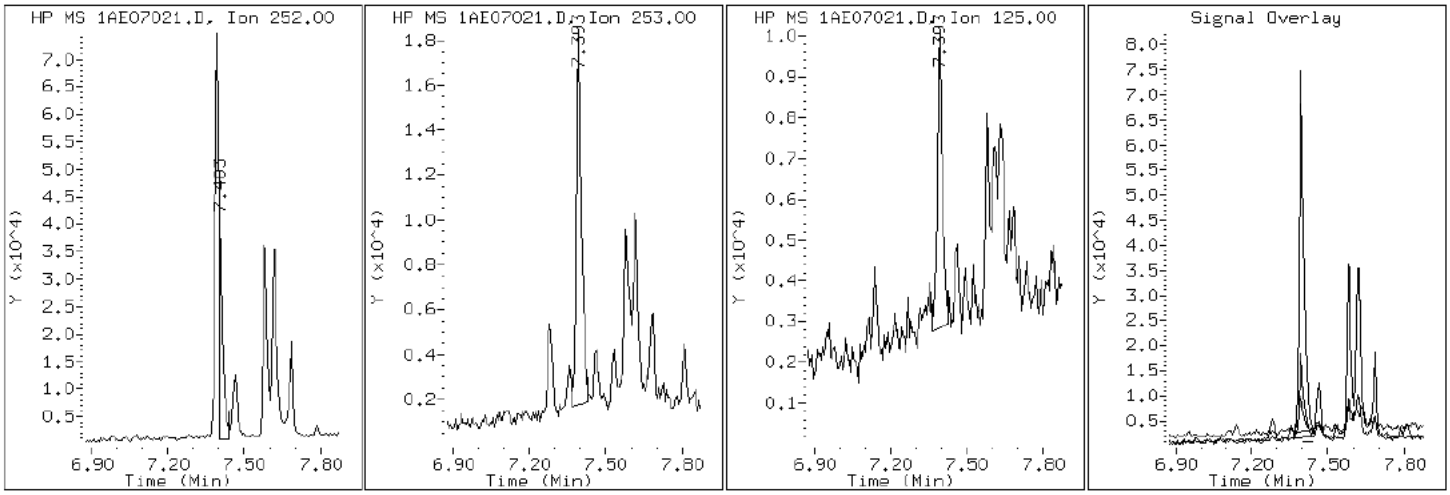
Data File: 1AE07021.D

Date: 07-MAY-2013 17:22

Client ID: CV1006B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-17-a Operator: SCC

21 Benzo(k)fluoranthene



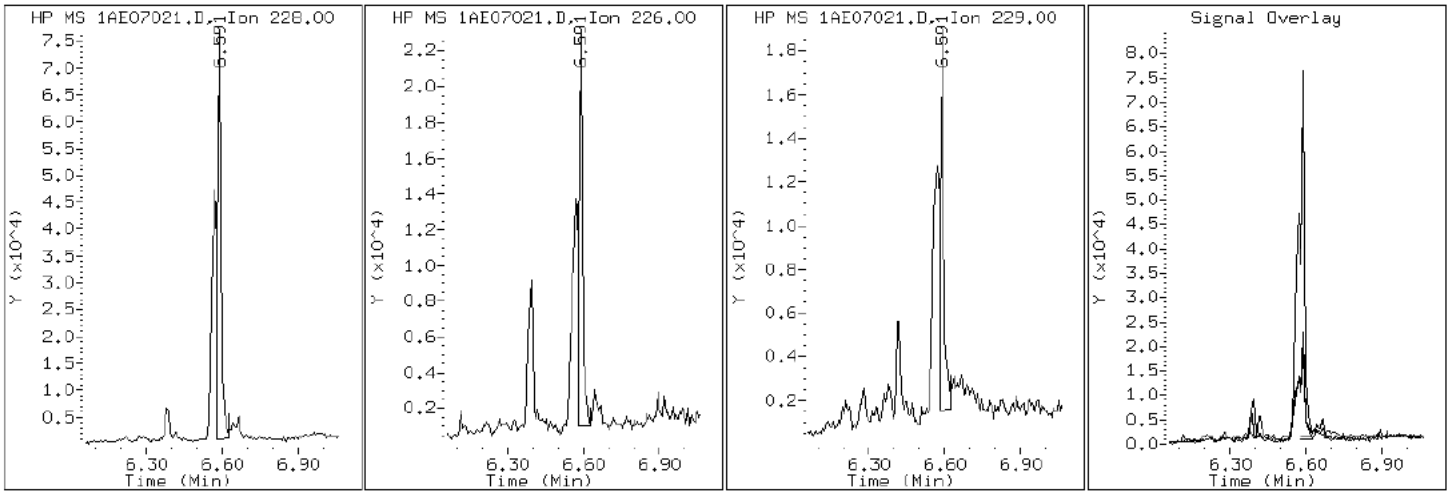
Data File: 1AE07021.D

Date: 07-MAY-2013 17:22

Client ID: CV1006B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-17-a Operator: SCC

19 Chrysene



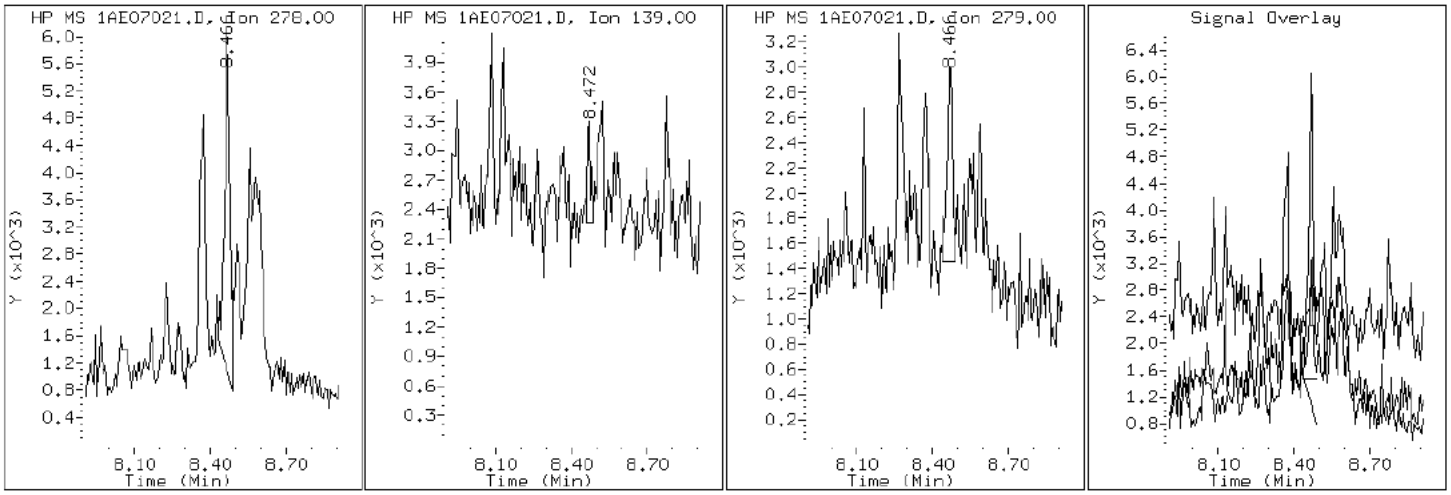
Data File: 1AE07021.D

Date: 07-MAY-2013 17:22

Client ID: CV1006B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-17-a Operator: SCC

25 Dibenzo(a,h)anthracene



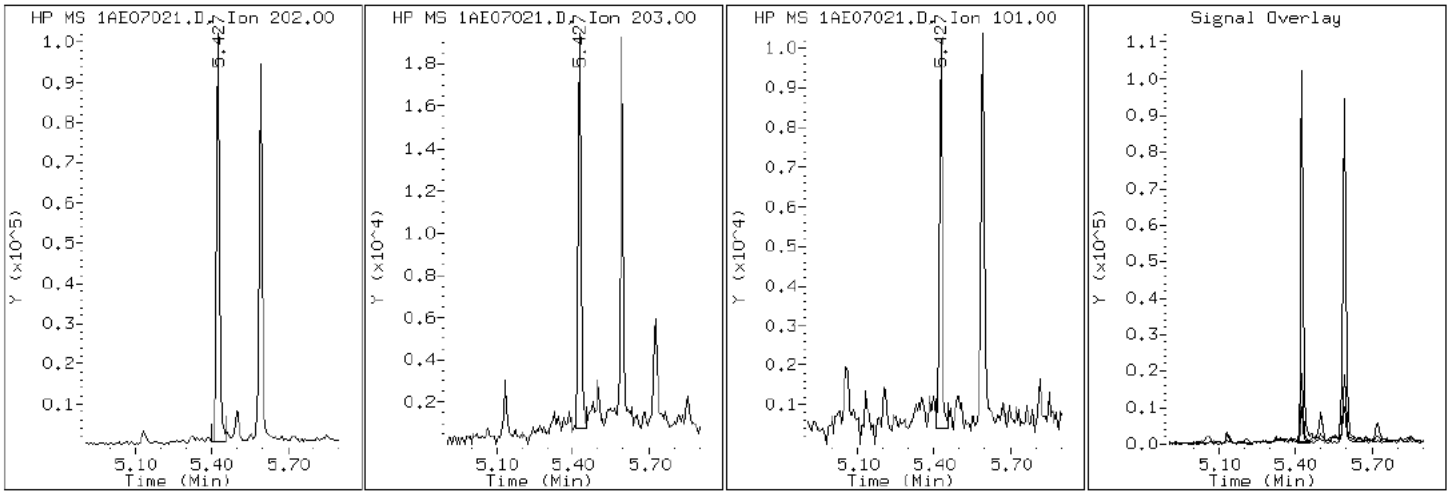
Data File: 1AE07021.D

Date: 07-MAY-2013 17:22

Client ID: CV1006B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-17-a Operator: SCC

15 Fluoranthene



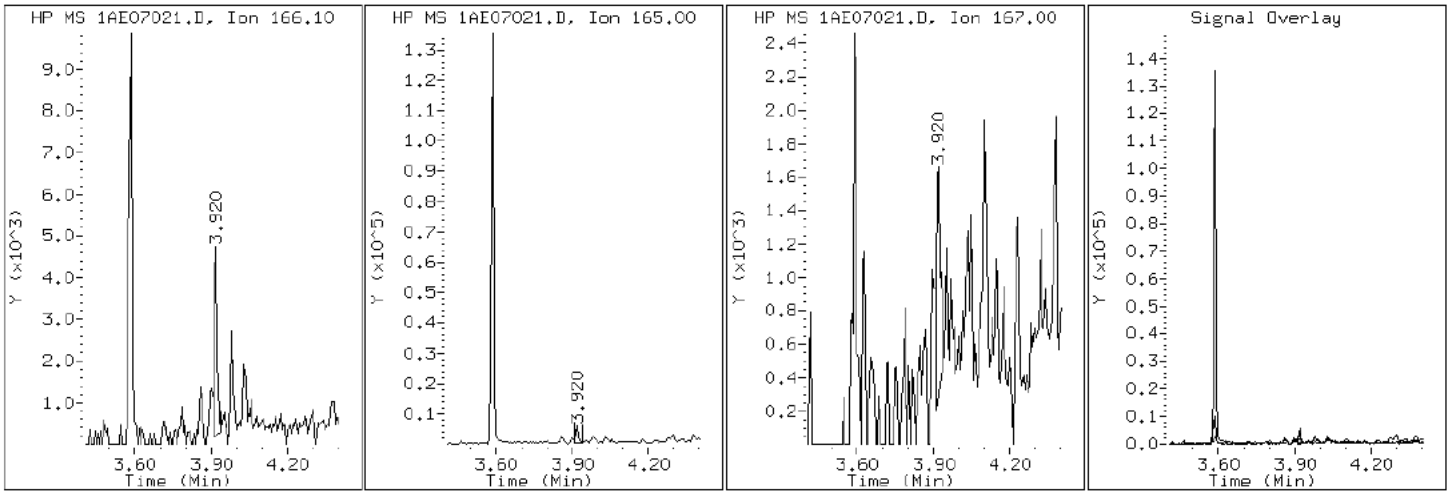
Data File: 1AE07021.D

Date: 07-MAY-2013 17:22

Client ID: CV1006B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-17-a Operator: SCC

9 Fluorene



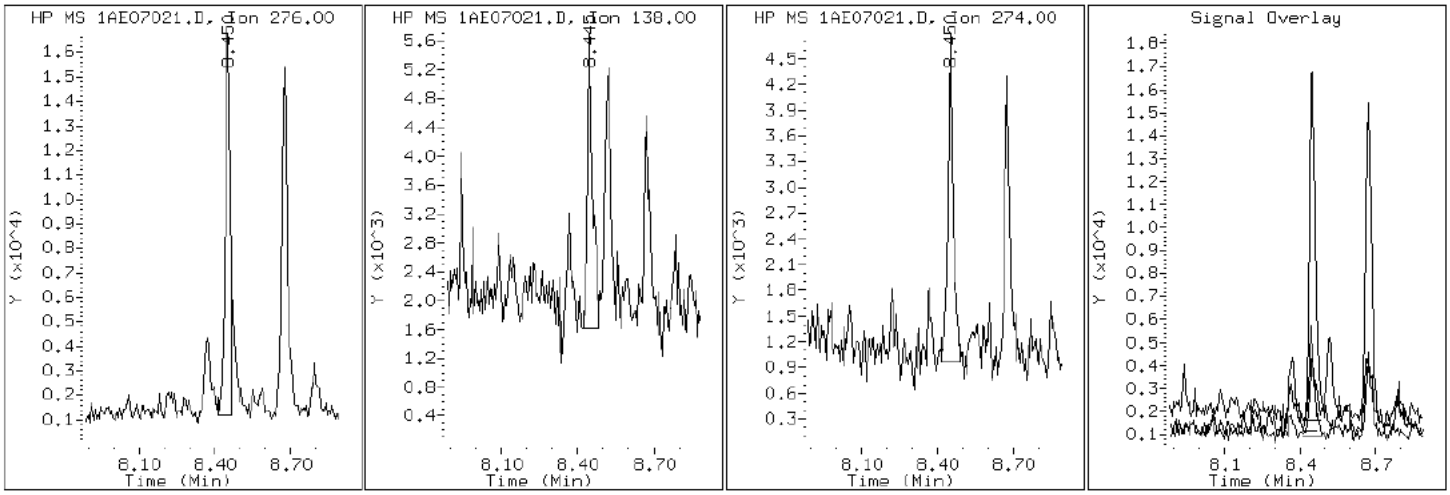
Data File: 1AE07021.D

Date: 07-MAY-2013 17:22

Client ID: CV1006B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-17-a Operator: SCC

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



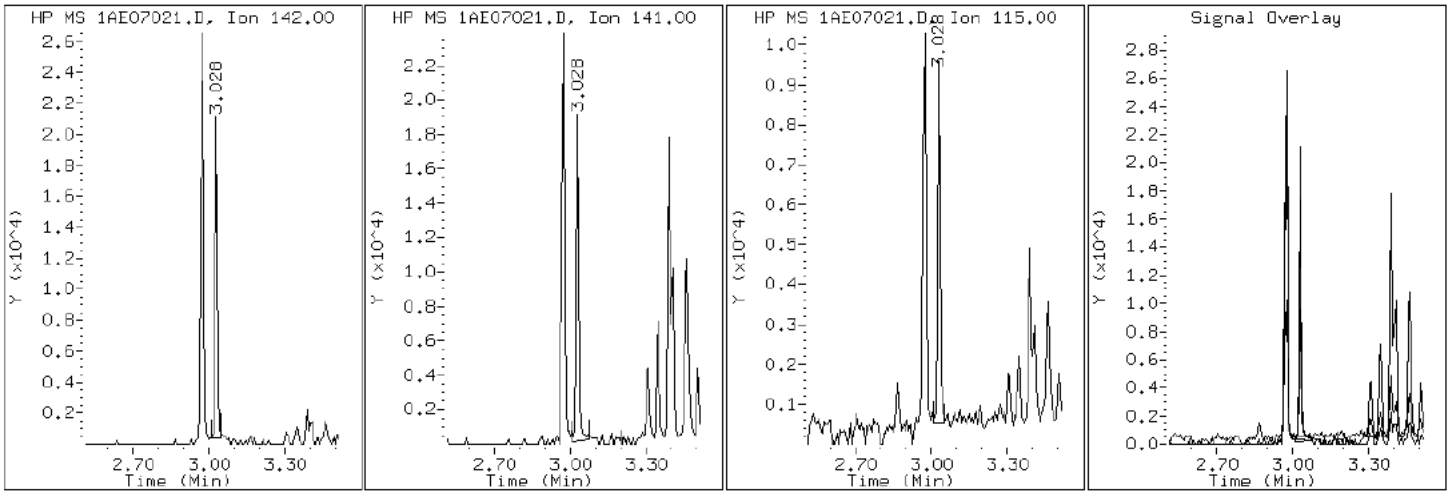
Data File: 1AE07021.D

Date: 07-MAY-2013 17:22

Client ID: CV1006B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-17-a Operator: SCC

4 1-Methylnaphthalene



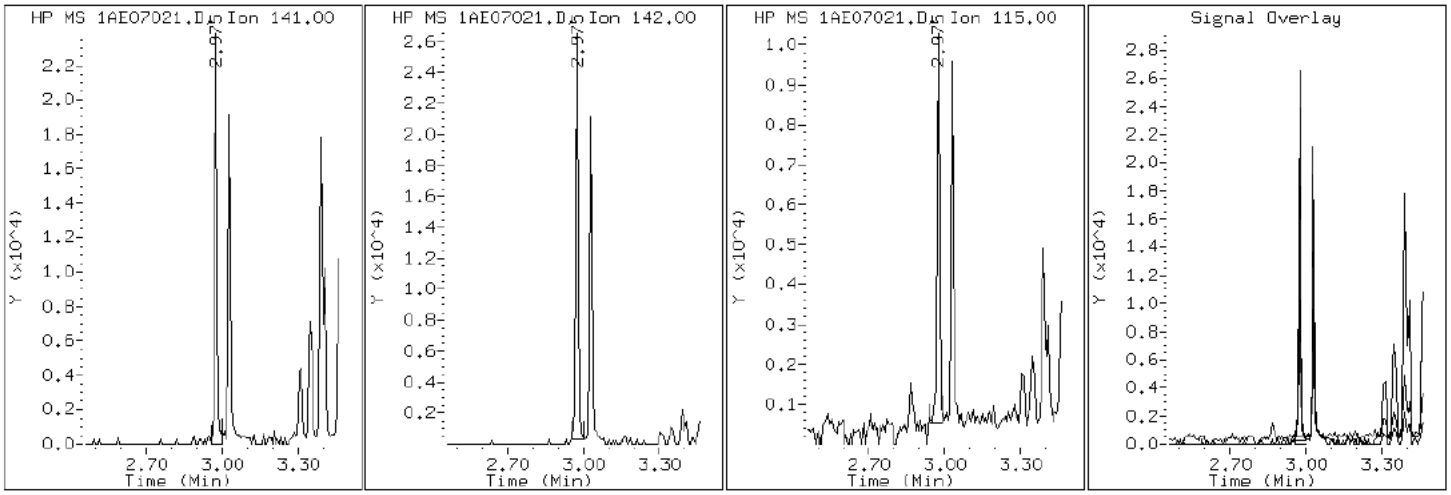
Data File: 1AE07021.D

Date: 07-MAY-2013 17:22

Client ID: CV1006B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-17-a Operator: SCC

3 2-Methylnaphthalene



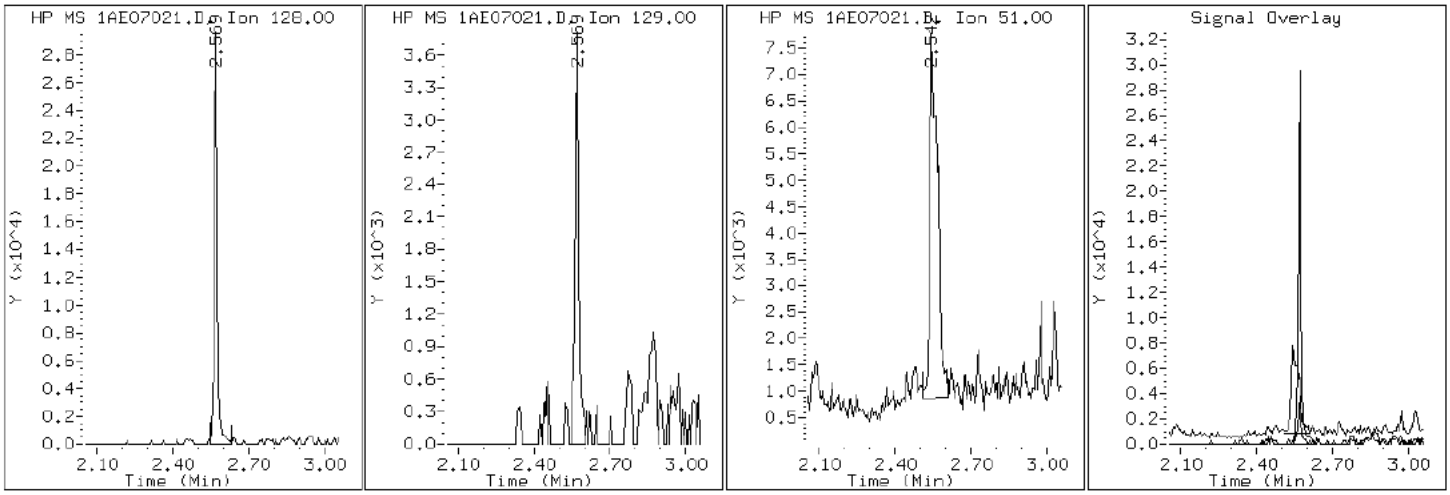
Data File: 1AE07021.D

Date: 07-MAY-2013 17:22

Client ID: CV1006B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-17-a Operator: SCC

2 Naphthalene



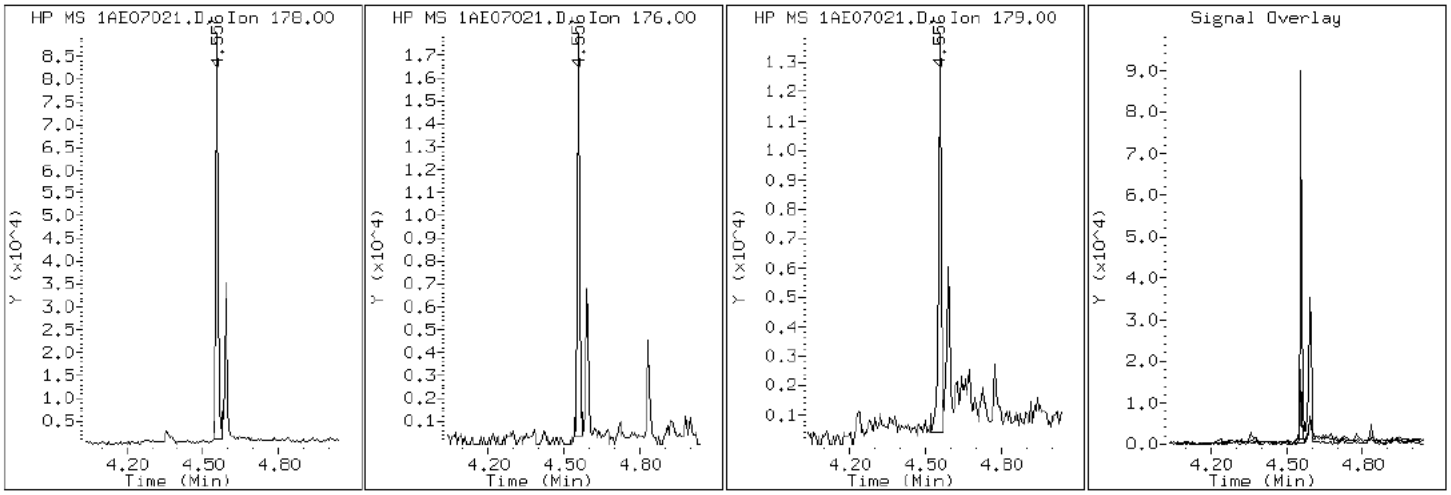
Data File: 1AE07021.D

Date: 07-MAY-2013 17:22

Client ID: CV1006B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-17-a Operator: SCC

11 Phenanthrene



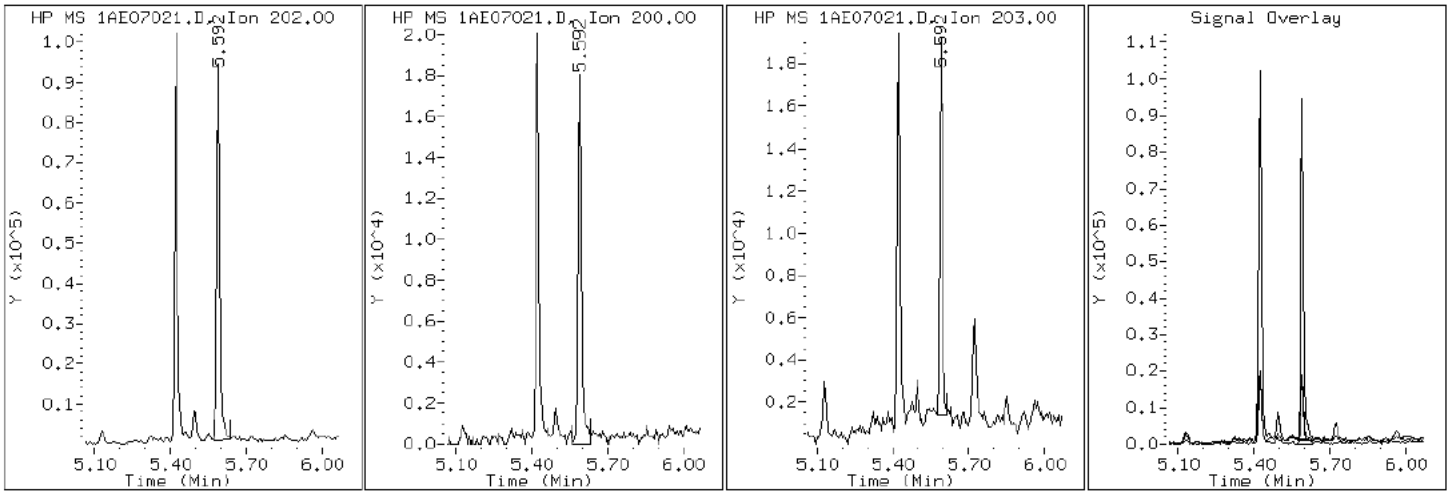
Data File: 1AE07021.D

Date: 07-MAY-2013 17:22

Client ID: CV1006B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-17-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE07021.D
Inj. Date and Time: 07-MAY-2013 17:22
Instrument ID: BSMA5973.i
Client ID: CV1006B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/09/2013

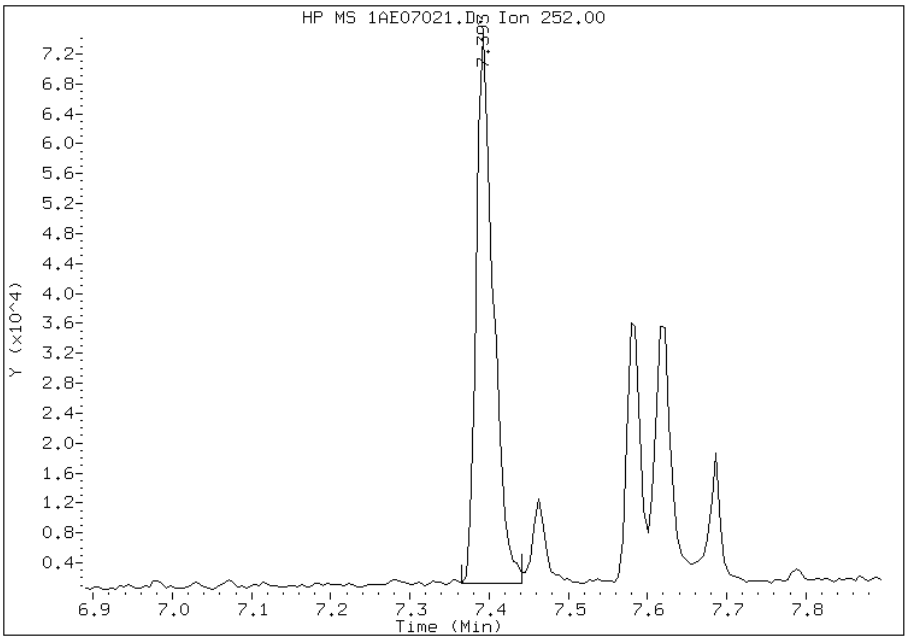
Processing Integration Results

RT: 7.39

Response: 109490

Amount: 4

Conc: 322



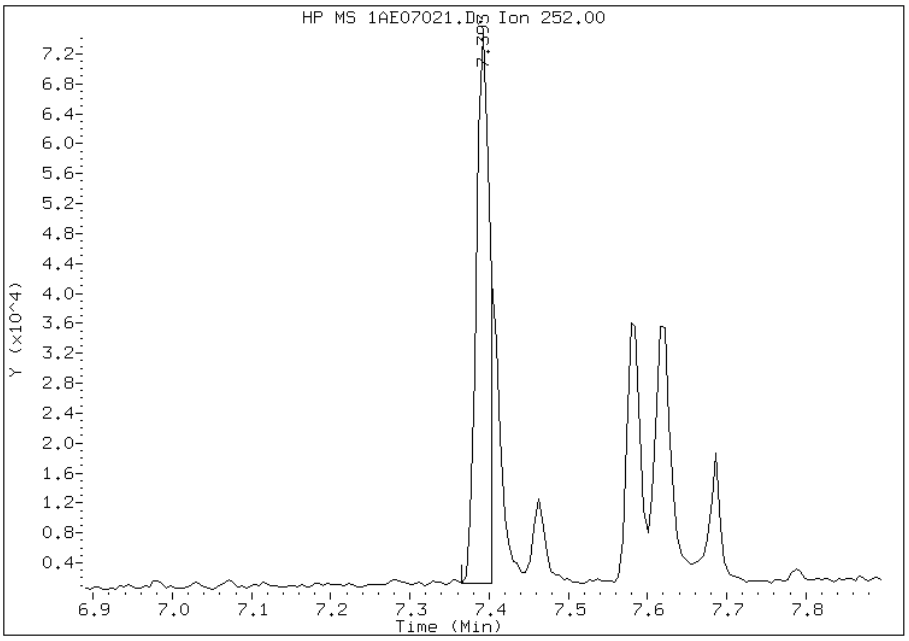
Manual Integration Results

RT: 7.39

Response: 85991

Amount: 3

Conc: 253



Manually Integrated By: cantins
Modification Date: 09-May-2013 12:37
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE07021.D
Inj. Date and Time: 07-MAY-2013 17:22
Instrument ID: BSMA5973.i
Client ID: CV1006B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/09/2013

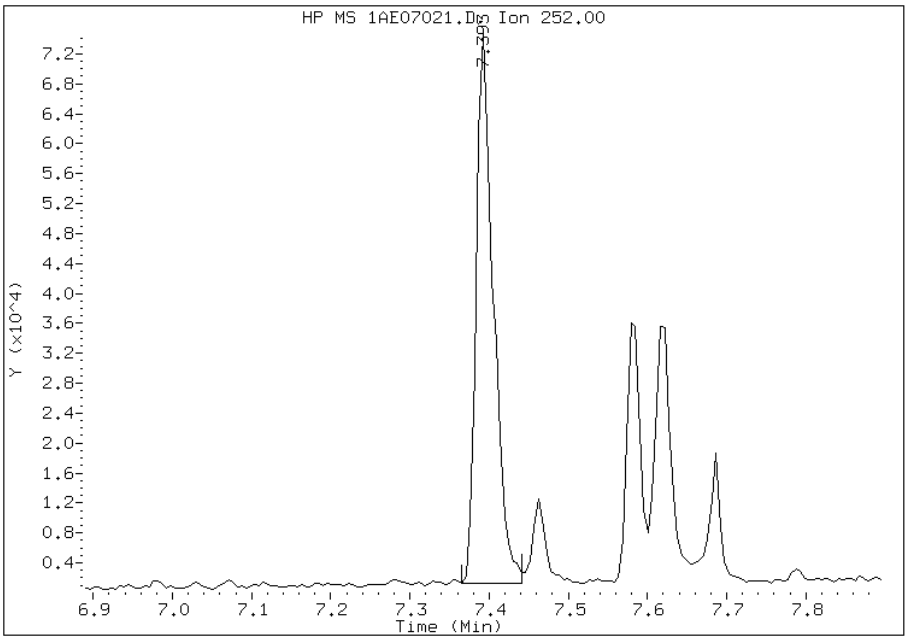
Processing Integration Results

RT: 7.39

Response: 109490

Amount: 3

Conc: 259



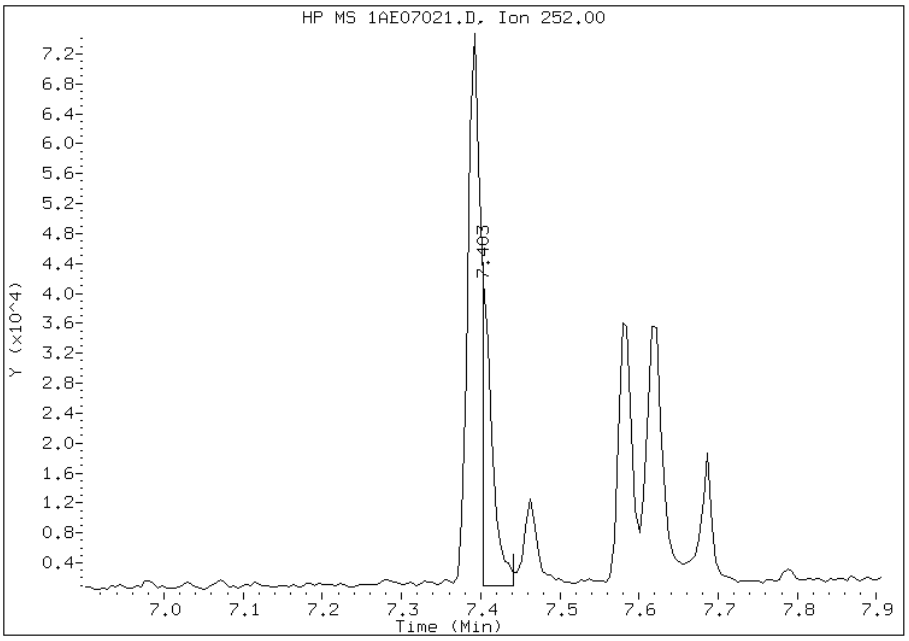
Manual Integration Results

RT: 7.40

Response: 37255

Amount: 1

Conc: 88



Manually Integrated By: cantins
Modification Date: 09-May-2013 12:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE07021.D
Inj. Date and Time: 07-MAY-2013 17:22
Instrument ID: BSMA5973.i
Client ID: CV1006B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

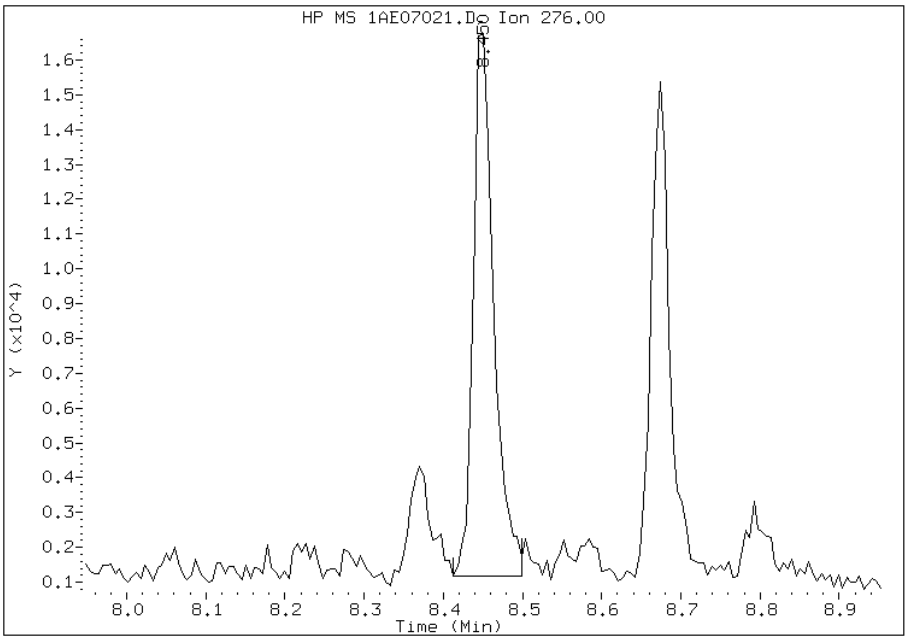
Processing Integration Results

RT: 8.45

Response: 27907

Amount: 1

Conc: 95



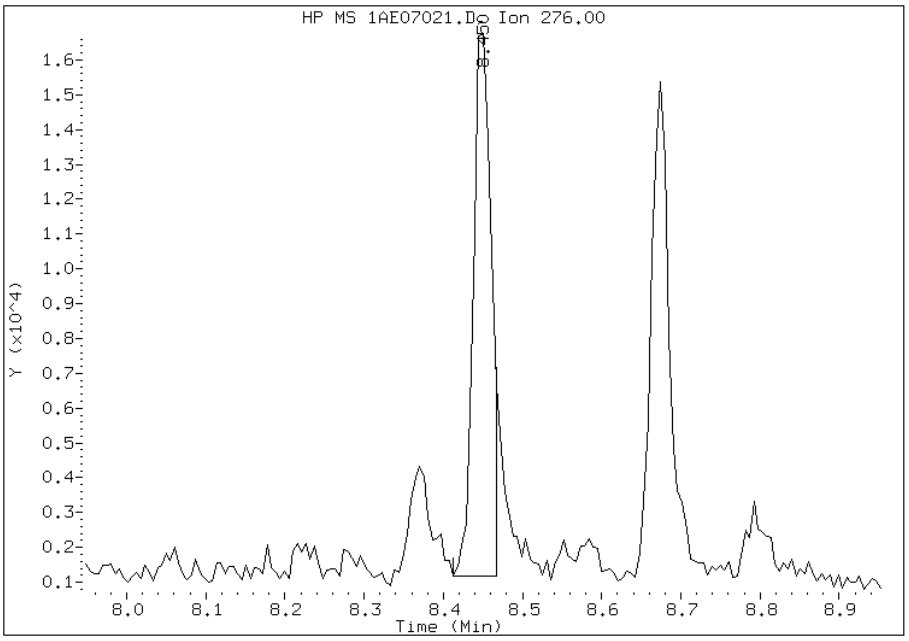
Manual Integration Results

RT: 8.45

Response: 24276

Amount: 1

Conc: 83



Manually Integrated By: cantins
Modification Date: 09-May-2013 12:38
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: CV1165A-CS | Lab Sample ID: 680-89985-18

Matrix: Solid | Lab File ID: 1AE09020.D

Analysis Method: 8270C LL | Date Collected: 05/02/2013 09:20

Extract. Method: 3546 | Date Extracted: 05/08/2013 11:30

Sample wt/vol: 15.01(g) | Date Analyzed: 05/09/2013 14:57

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

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

% Moisture: 17.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137283 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	62		49	6.1
120-12-7	Anthracene	110		10	5.1
56-55-3	Benzo[a]anthracene	91		9.7	4.7
50-32-8	Benzo[a]pyrene	86		13	6.3
205-99-2	Benzo[b]fluoranthene	180		15	7.4
191-24-2	Benzo[g,h,i]perylene	58		24	5.3
207-08-9	Benzo[k]fluoranthene	85		9.7	4.4
218-01-9	Chrysene	200		11	5.5
53-70-3	Dibenz(a,h)anthracene	18	J	24	5.0
206-44-0	Fluoranthene	340		24	4.9
86-73-7	Fluorene	17	J	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	61		24	8.6
90-12-0	1-Methylnaphthalene	72		49	5.3
91-57-6	2-Methylnaphthalene	71		49	8.6
91-20-3	Naphthalene	49		49	5.3
85-01-8	Phenanthrene	490		9.7	4.7
129-00-0	Pyrene	300		24	4.5

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050913.b\1AE09020.D
Lab Smp Id: 680-89985-A-18-A Client Smp ID: CV1165A-CS
Inj Date : 09-MAY-2013 14:57
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89985-a-18-a
Misc Info : 680-89985-A-18-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050913.b\a-bFASTPAHi-m.m
Meth Date : 09-May-2013 11:07 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.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	15.010	Weight Extracted
M	17.610	% 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	2.549	2.543	(1.000)	1084672	40.0000	
*	6 Acenaphthene-d10	164	3.580	3.574	(1.000)	557632	40.0000	
*	10 Phenanthrene-d10	188	4.536	4.520	(1.000)	843308	40.0000	
$	14 o-Terphenyl	230	4.830	4.819	(1.065)	72898	6.03981	488.3922
*	18 Chrysene-d12	240	6.566	6.539	(1.000)	787677	40.0000	
*	23 Perylene-d12	264	7.661	7.634	(1.000)	744024	40.0000	
	2 Naphthalene	128	2.559	2.554	(1.004)	15474	0.60580	48.9862
	3 2-Methylnaphthalene	141	2.965	2.960	(1.163)	11357	0.87487	70.7436
	4 1-Methylnaphthalene	142	3.024	3.013	(1.187)	13835	0.88916	71.8993
	5 Acenaphthylene	152	3.494	3.484	(0.976)	19984	0.76267	61.6713
	9 Fluorene	166	3.911	3.906	(1.093)	3610	0.21051	17.0226
	11 Phenanthrene	178	4.552	4.536	(1.004)	125631	6.01328	486.2462
	12 Anthracene	178	4.584	4.573	(1.011)	30196	1.35681	109.7147
	13 Carbazole	167	4.734	4.707	(1.044)	8962	0.44788	36.2163

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Fluoranthene	202	5.417	5.401	(1.194)	101314	4.21532	340.8594
16 Pyrene	202	5.588	5.567	(0.851)	92976	3.67219	296.9411
17 Benzo(a)anthracene	228	6.561	6.534	(0.999)	24874	1.12363	90.8593(Q)
19 Chrysene	228	6.582	6.561	(1.002)	61223	2.45802	198.7604
20 Benzo(b)fluoranthene	252	7.378	7.351	(0.963)	43456	2.20972	178.6829(M)
21 Benzo(k)fluoranthene	252	7.389	7.373	(0.964)	25618	1.05004	84.9086(M)
22 Benzo(a)pyrene	252	7.608	7.581	(0.993)	21446	1.06186	85.8640
24 Indeno(1,2,3-cd)pyrene	276	8.436	8.398	(1.101)	12862	0.76018	61.4697(M)
25 Dibenzo(a,h)anthracene	278	8.446	8.425	(1.102)	3929	0.22654	18.3183
26 Benzo(g,h,i)perylene	276	8.649	8.617	(1.129)	13005	0.71478	57.7983

QC Flag Legend

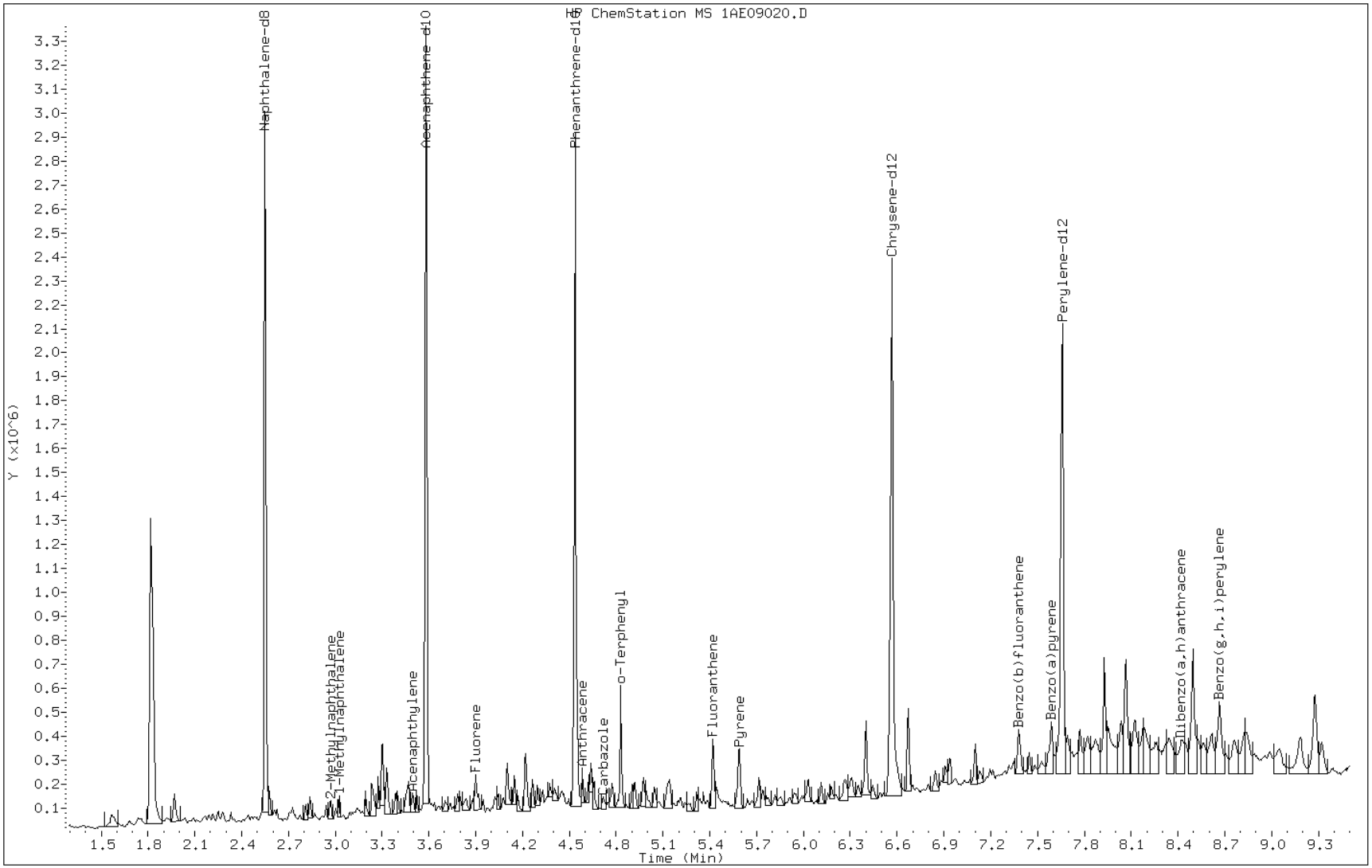
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE09020.D

Date: 09-MAY-2013 14:57

Client ID: CV1165A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-18-a Operator: SCC



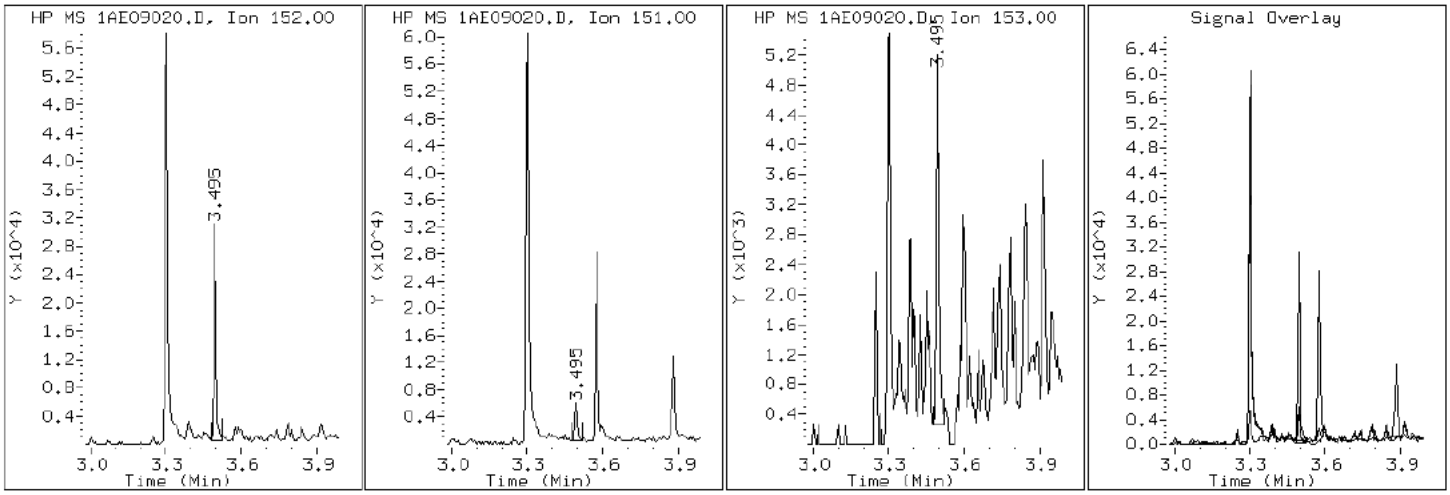
Data File: 1AE09020.D

Date: 09-MAY-2013 14:57

Client ID: CV1165A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-18-a Operator: SCC

5 Acenaphthylene



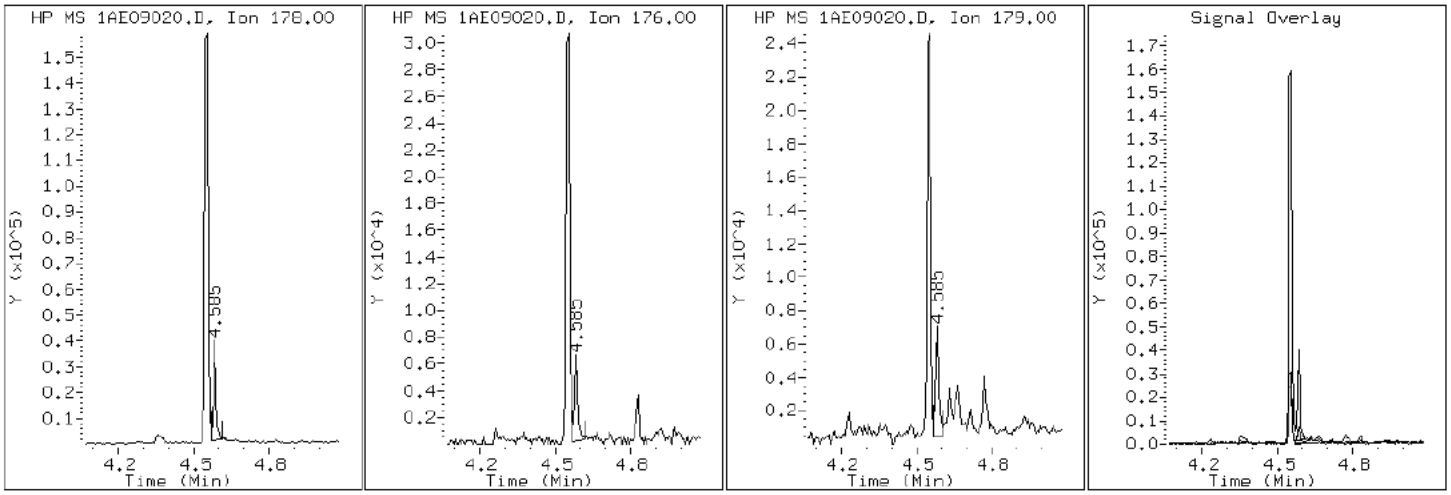
Data File: 1AE09020.D

Date: 09-MAY-2013 14:57

Client ID: CV1165A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-18-a Operator: SCC

12 Anthracene



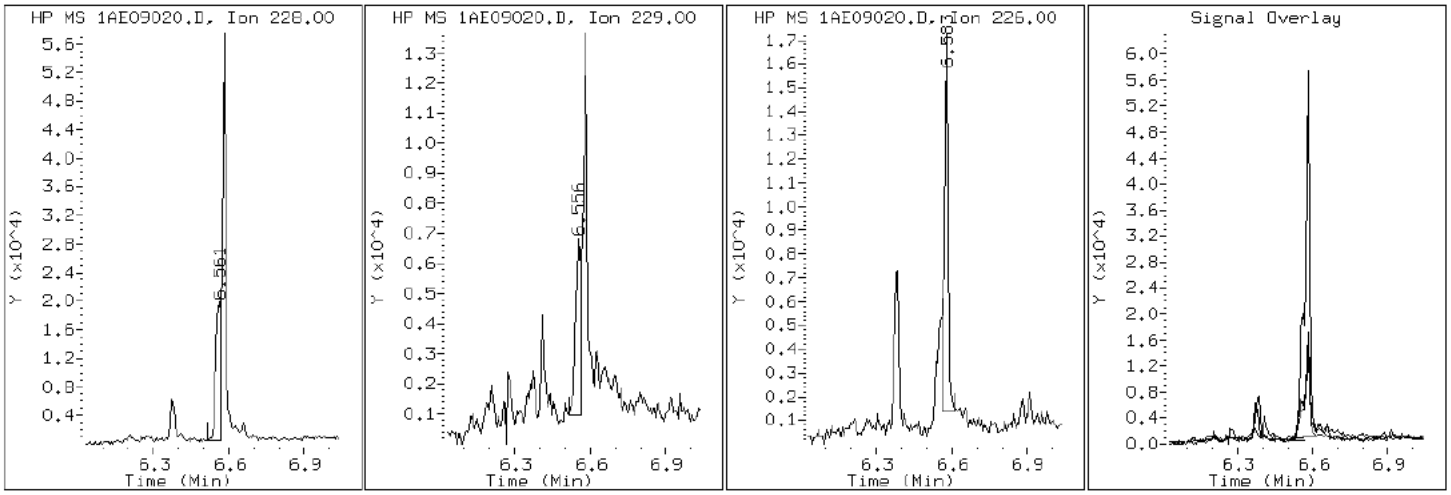
Data File: 1AE09020.D

Date: 09-MAY-2013 14:57

Client ID: CV1165A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-18-a Operator: SCC

17 Benzo(a)anthracene



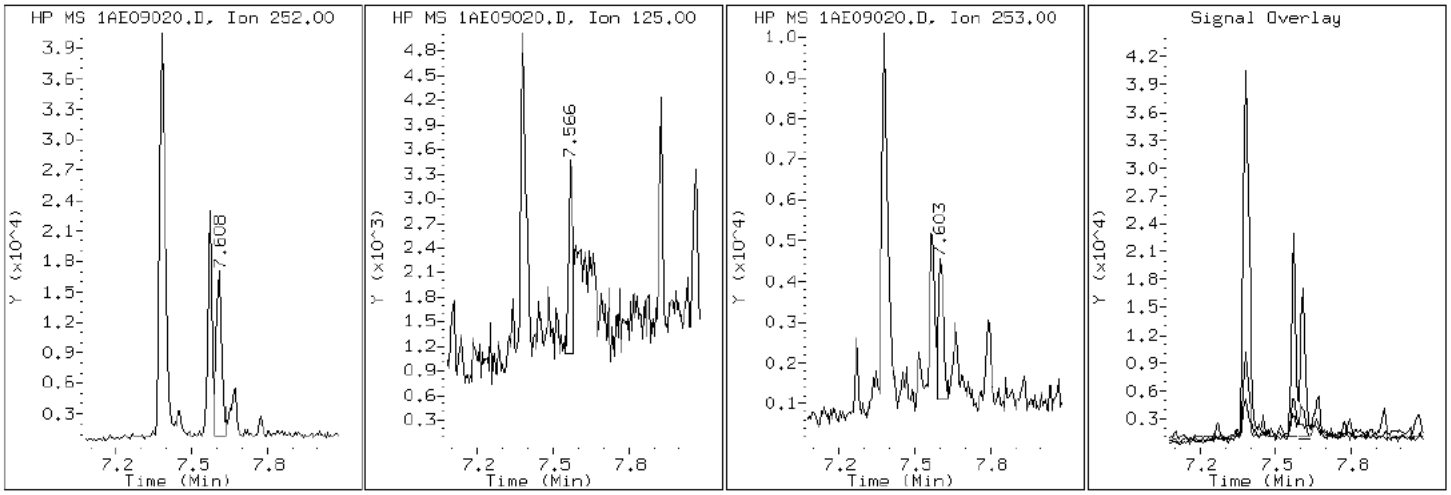
Data File: 1AE09020.D

Date: 09-MAY-2013 14:57

Client ID: CV1165A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-18-a Operator: SCC

22 Benzo(a)pyrene



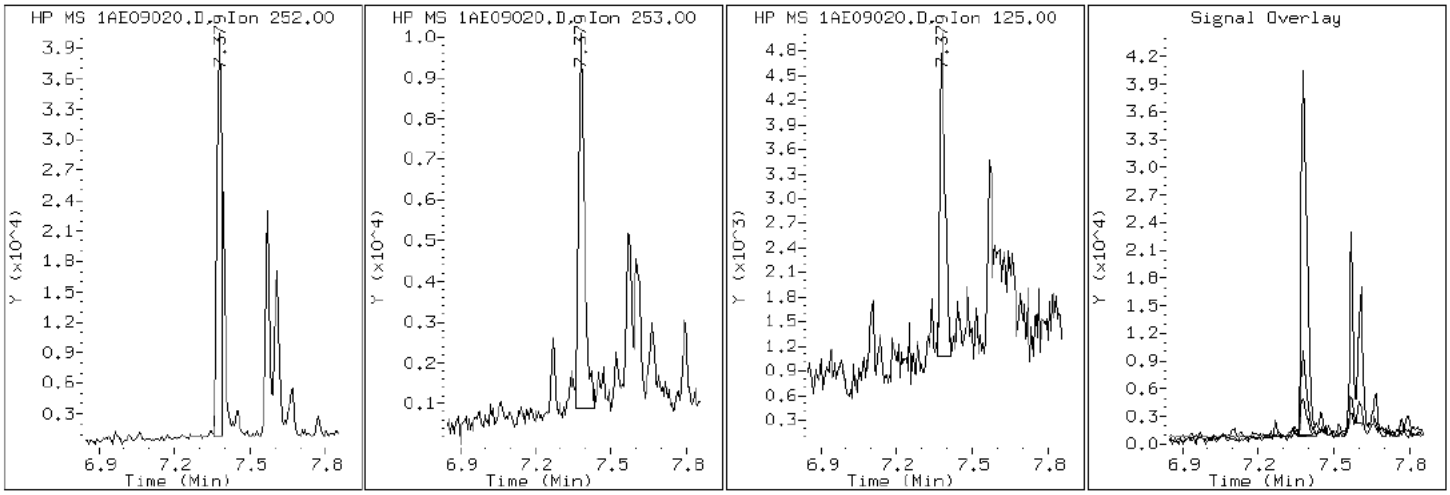
Data File: 1AE09020.D

Date: 09-MAY-2013 14:57

Client ID: CV1165A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-18-a Operator: SCC

20 Benzo(b)fluoranthene



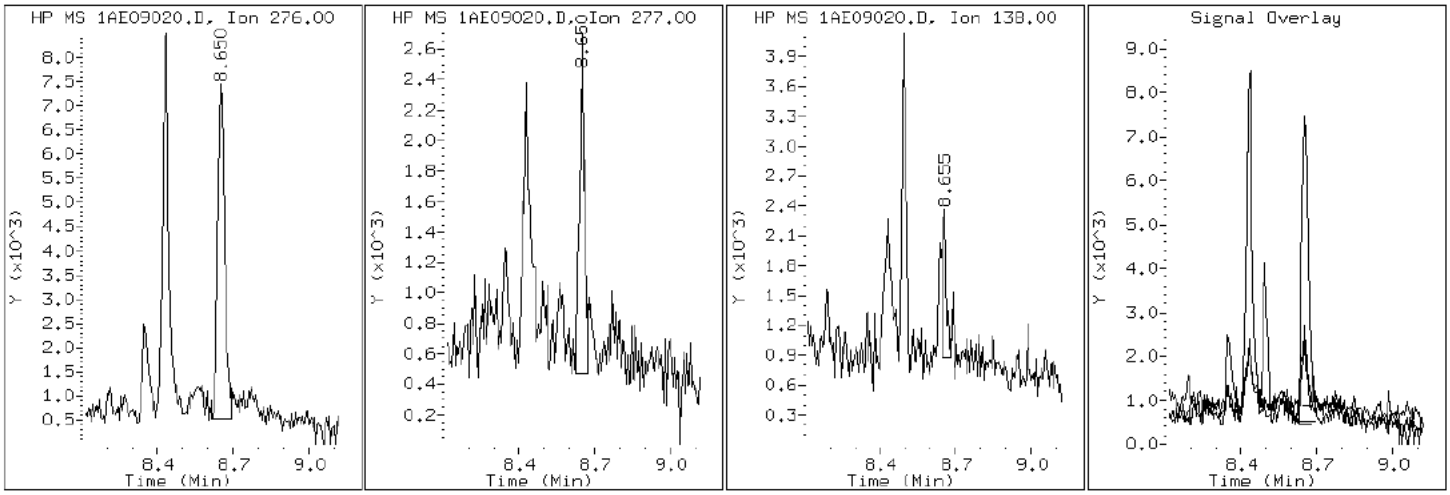
Data File: 1AE09020.D

Date: 09-MAY-2013 14:57

Client ID: CV1165A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-18-a Operator: SCC

26 Benzo(g,h,i)perylene



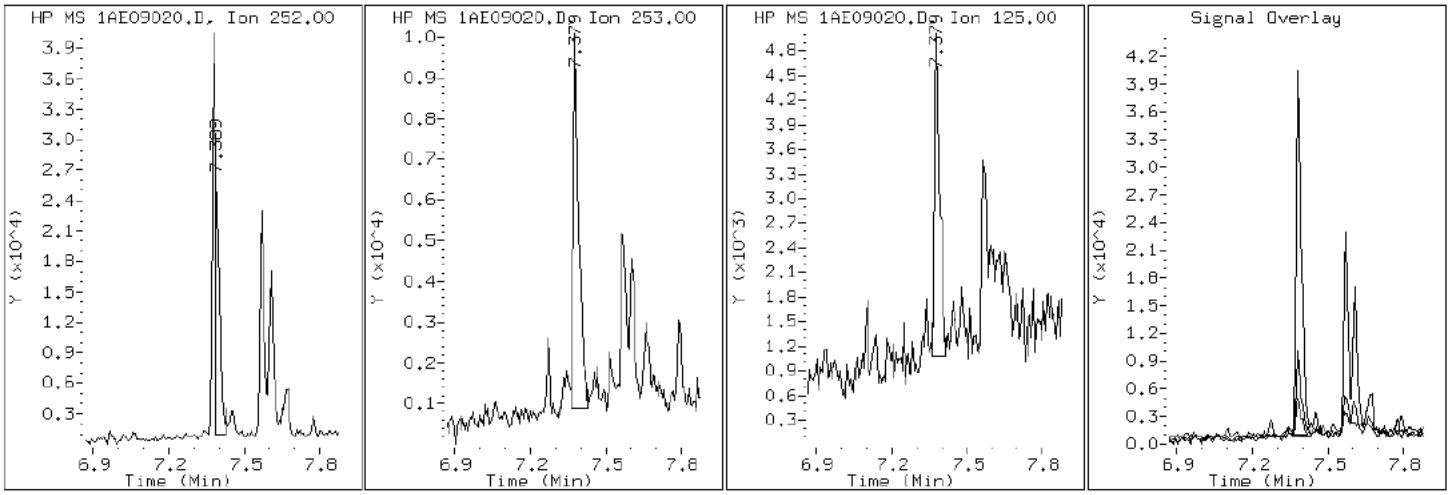
Data File: 1AE09020.D

Date: 09-MAY-2013 14:57

Client ID: CV1165A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-18-a Operator: SCC

21 Benzo(k)fluoranthene



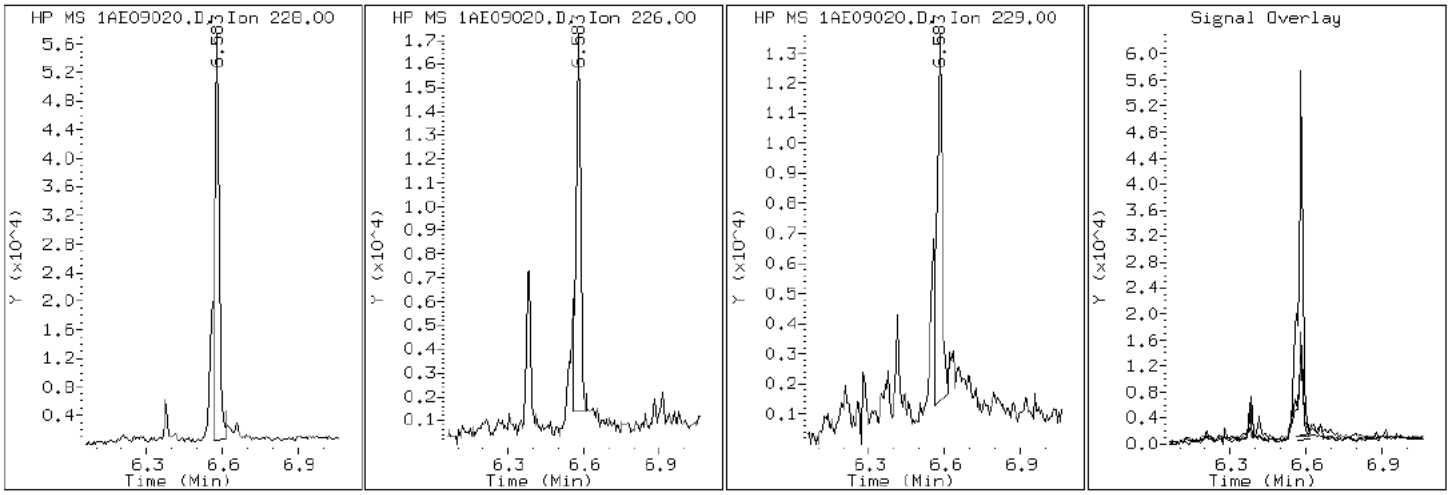
Data File: 1AE09020.D

Date: 09-MAY-2013 14:57

Client ID: CV1165A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-18-a Operator: SCC

19 Chrysene



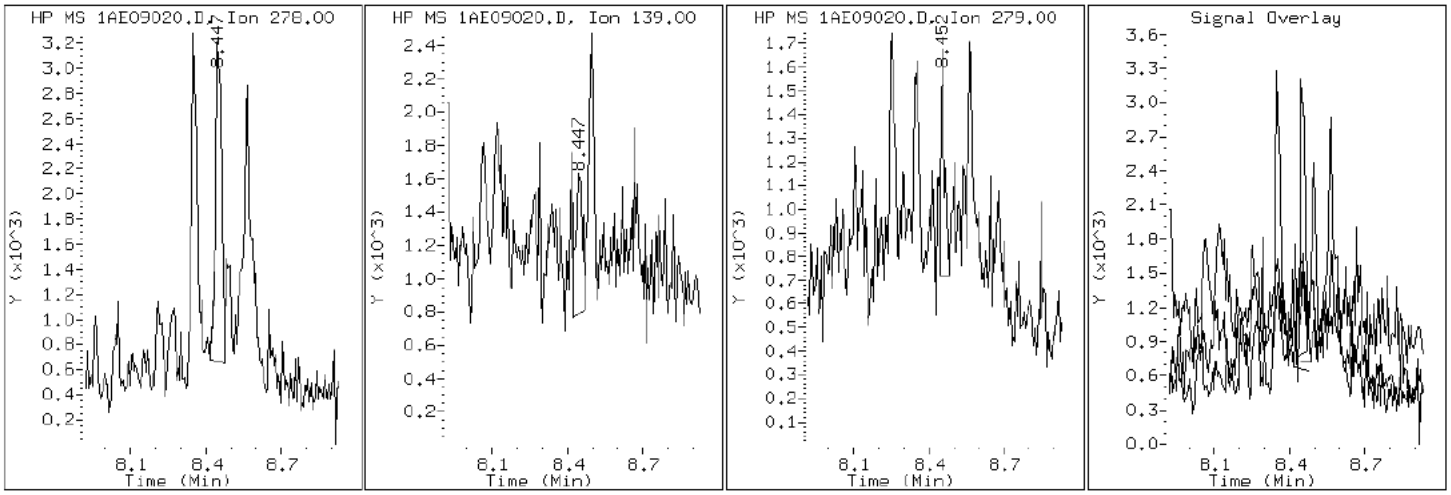
Data File: 1AE09020.D

Date: 09-MAY-2013 14:57

Client ID: CV1165A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-18-a Operator: SCC

25 Dibenzo(a,h)anthracene



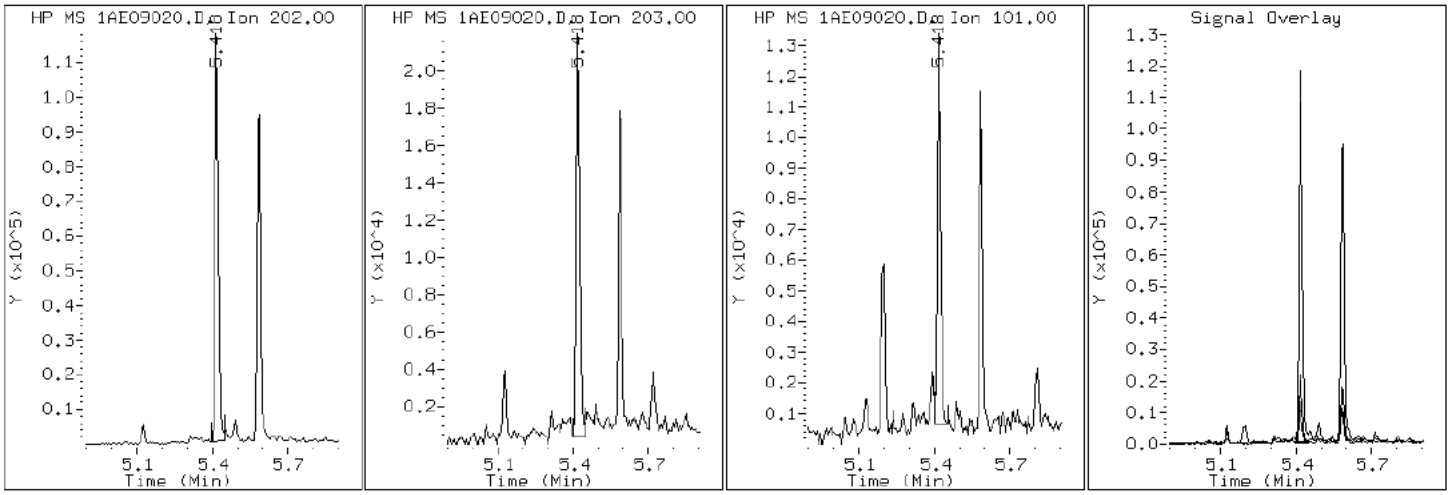
Data File: 1AE09020.D

Date: 09-MAY-2013 14:57

Client ID: CV1165A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-18-a Operator: SCC

15 Fluoranthene



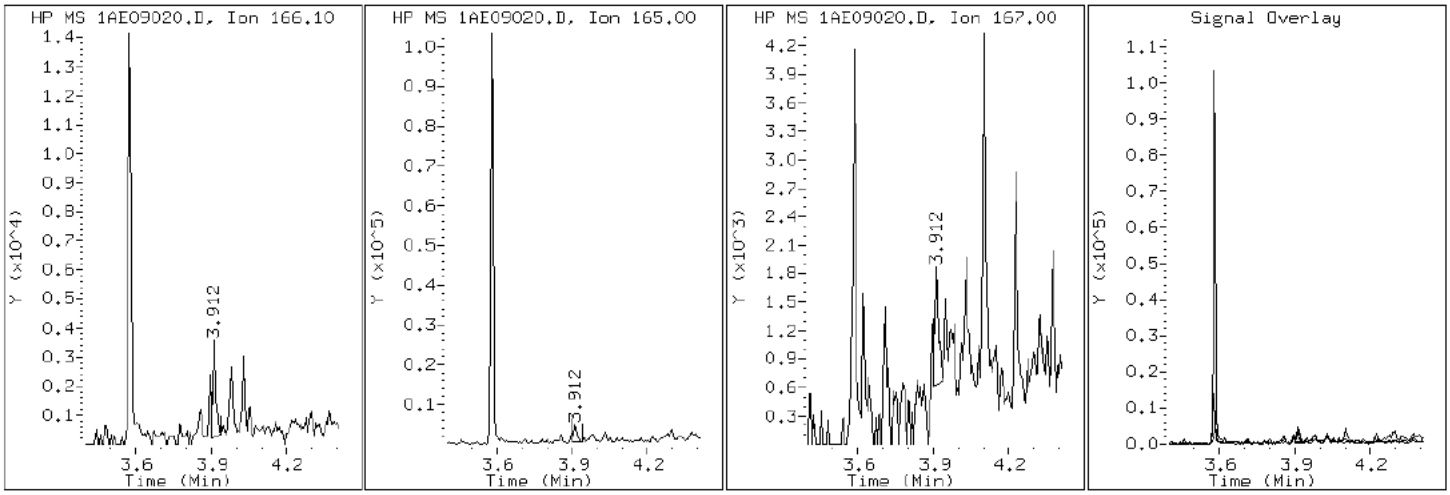
Data File: 1AE09020.D

Date: 09-MAY-2013 14:57

Client ID: CV1165A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-18-a Operator: SCC

9 Fluorene



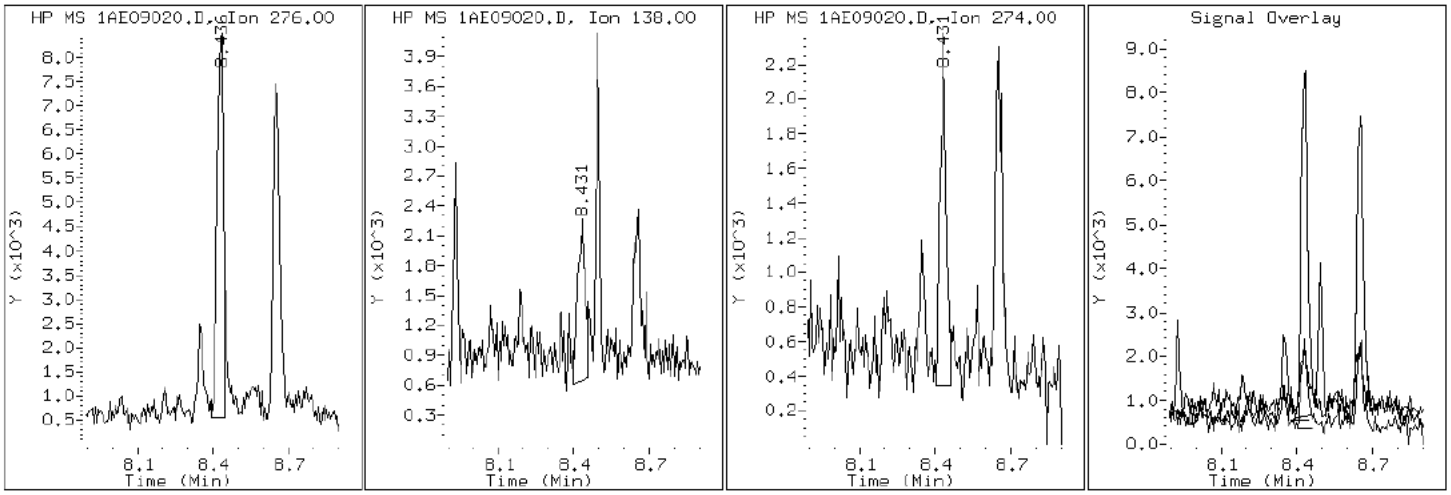
Data File: 1AE09020.D

Date: 09-MAY-2013 14:57

Client ID: CV1165A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-18-a Operator: SCC

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



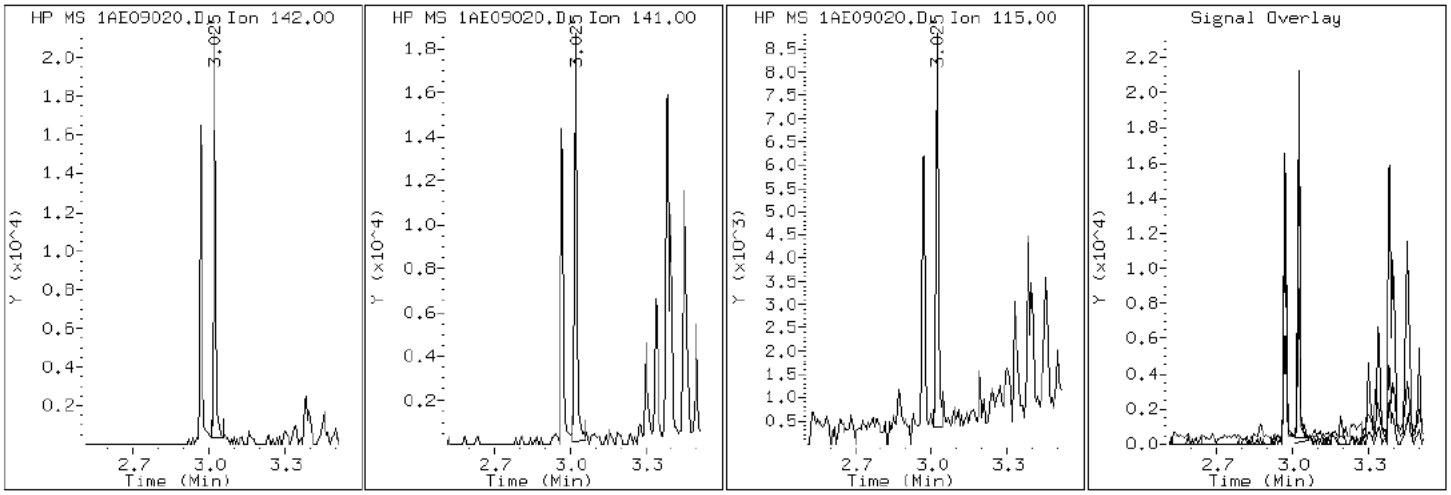
Data File: 1AE09020.D

Date: 09-MAY-2013 14:57

Client ID: CV1165A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-18-a Operator: SCC

4 1-Methylnaphthalene



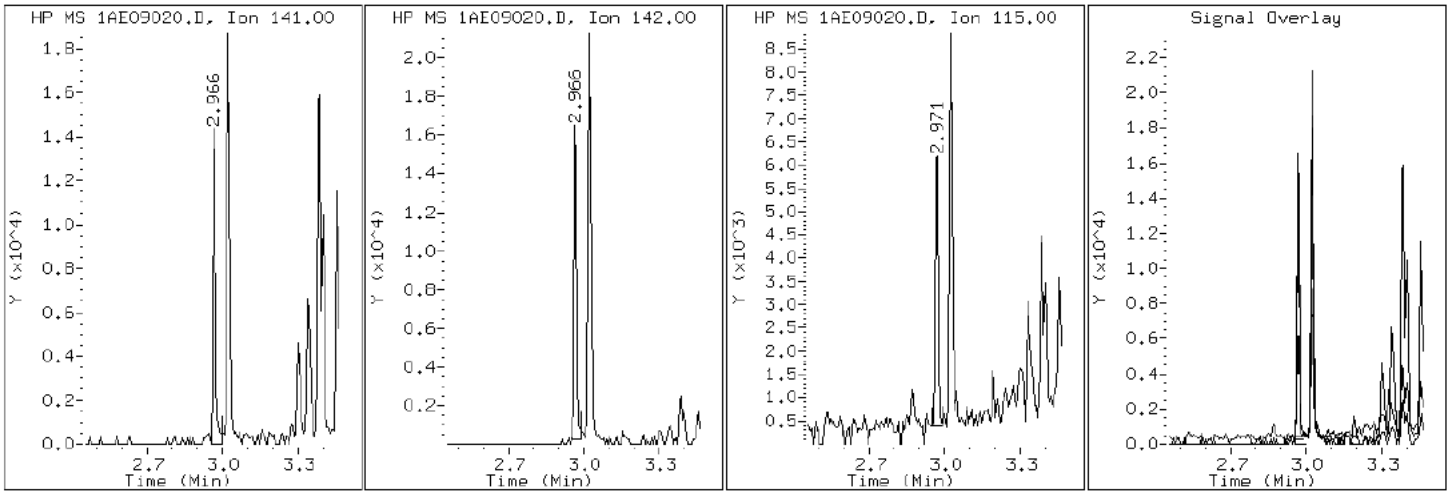
Data File: 1AE09020.D

Date: 09-MAY-2013 14:57

Client ID: CV1165A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-18-a Operator: SCC

3 2-Methylnaphthalene



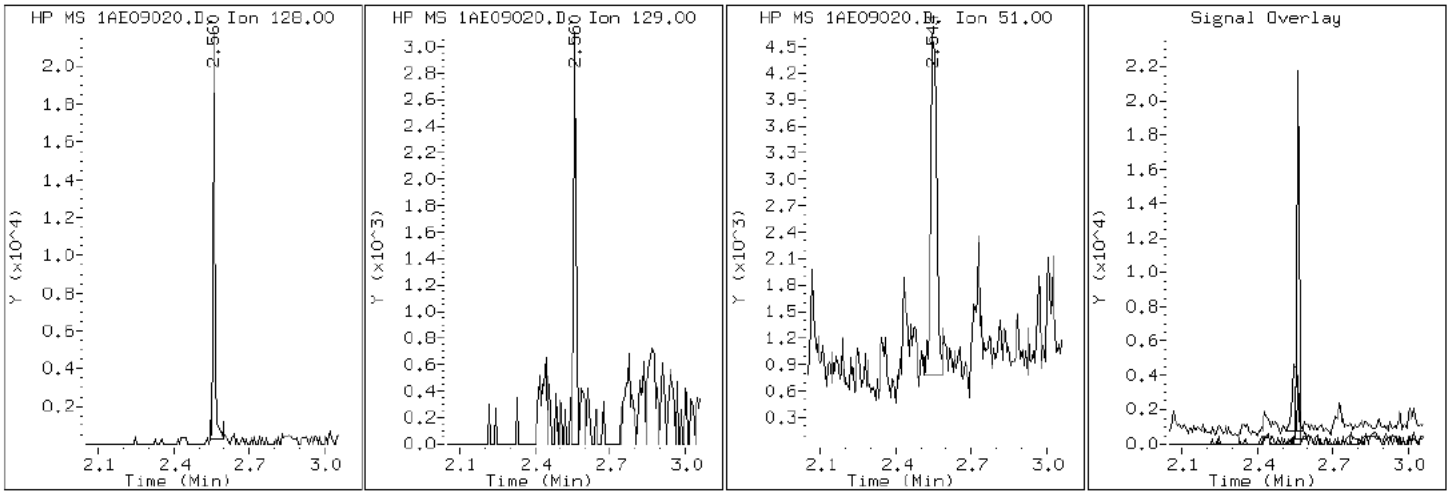
Data File: 1AE09020.D

Date: 09-MAY-2013 14:57

Client ID: CV1165A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-18-a Operator: SCC

2 Naphthalene



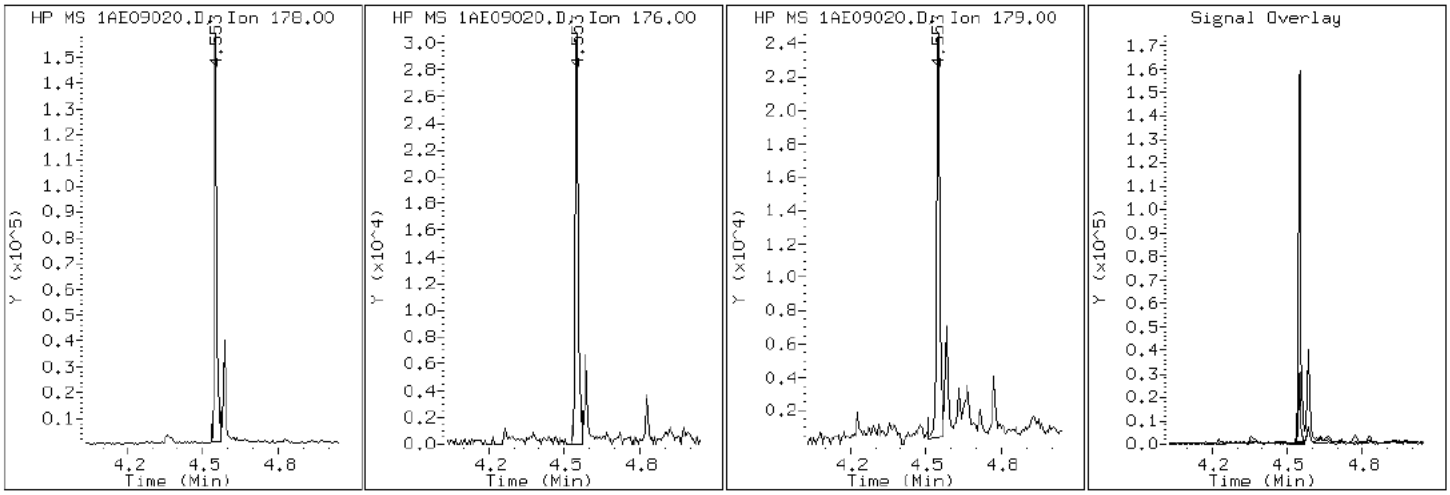
Data File: 1AE09020.D

Date: 09-MAY-2013 14:57

Client ID: CV1165A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-18-a Operator: SCC

11 Phenanthrene



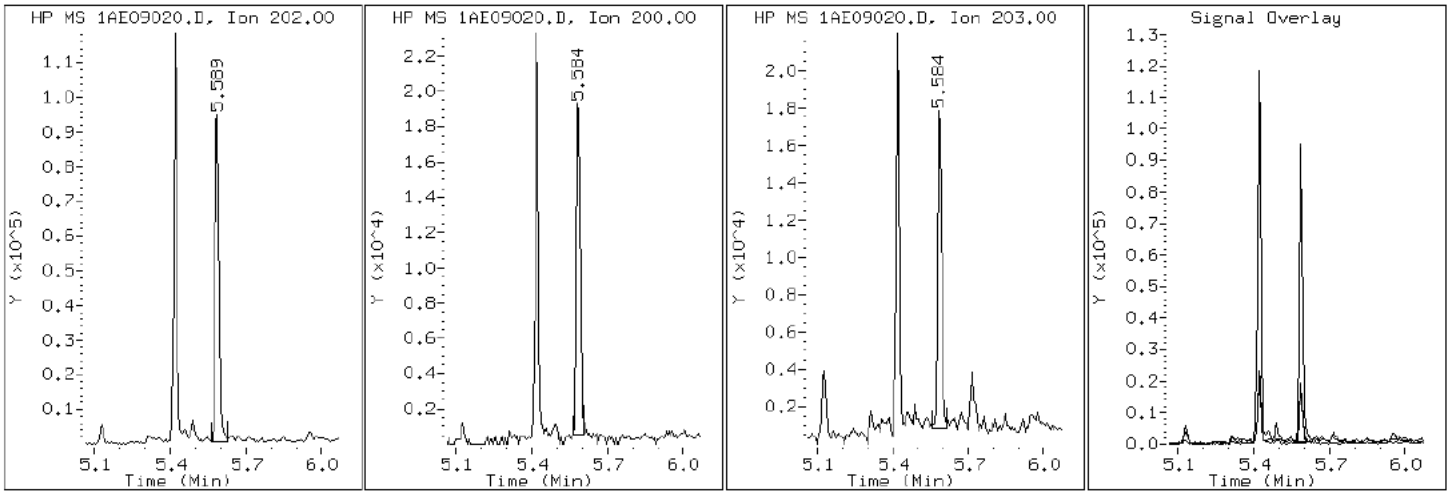
Data File: 1AE09020.D

Date: 09-MAY-2013 14:57

Client ID: CV1165A-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-18-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE09020.D
Inj. Date and Time: 09-MAY-2013 14:57
Instrument ID: BSMA5973.i
Client ID: CV1165A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/10/2013

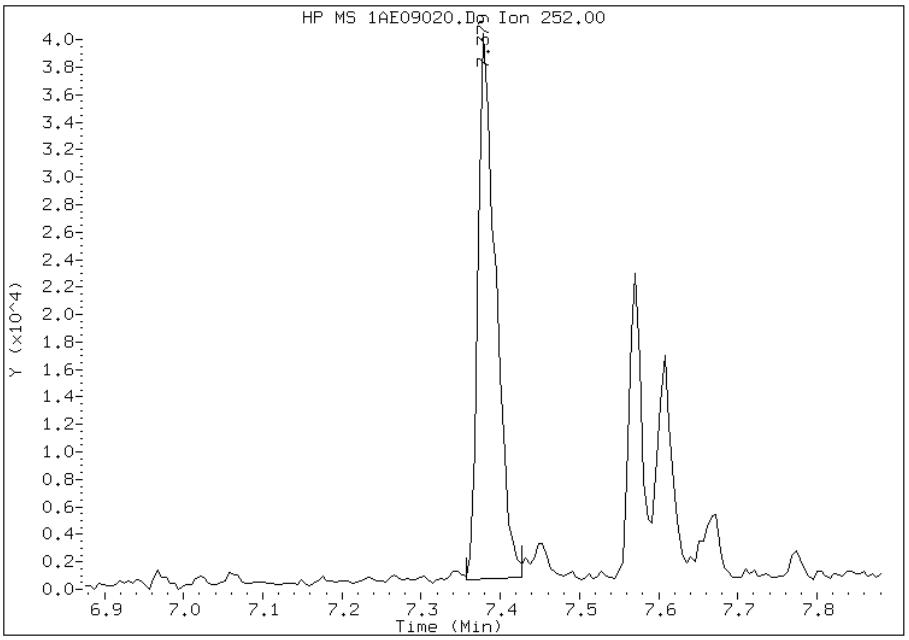
Processing Integration Results

RT: 7.38

Response: 61017

Amount: 3

Conc: 251



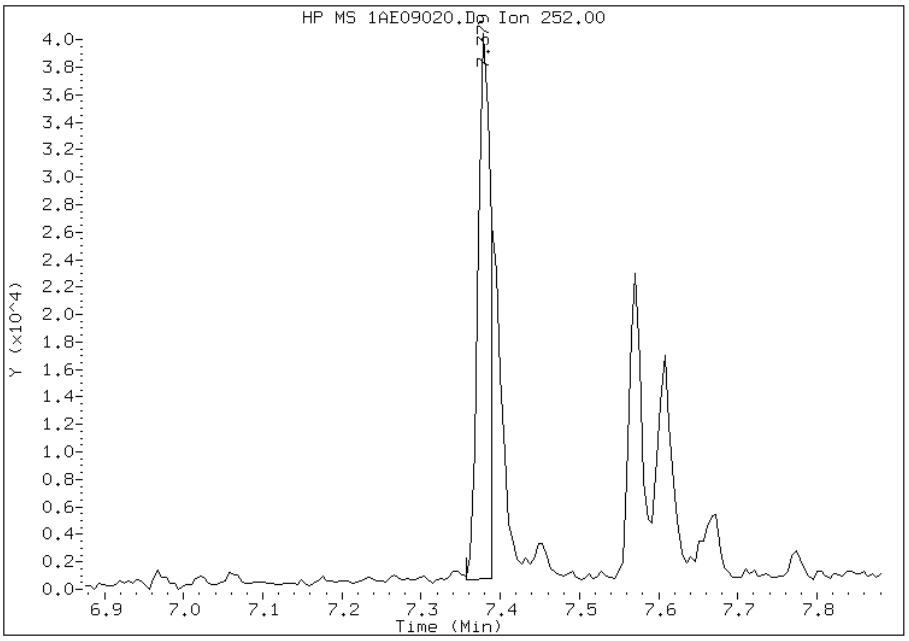
Manual Integration Results

RT: 7.38

Response: 43456

Amount: 2

Conc: 179



Manually Integrated By: cantins
Modification Date: 10-May-2013 11:03
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE09020.D
Inj. Date and Time: 09-MAY-2013 14:57
Instrument ID: BSMA5973.i
Client ID: CV1165A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/10/2013

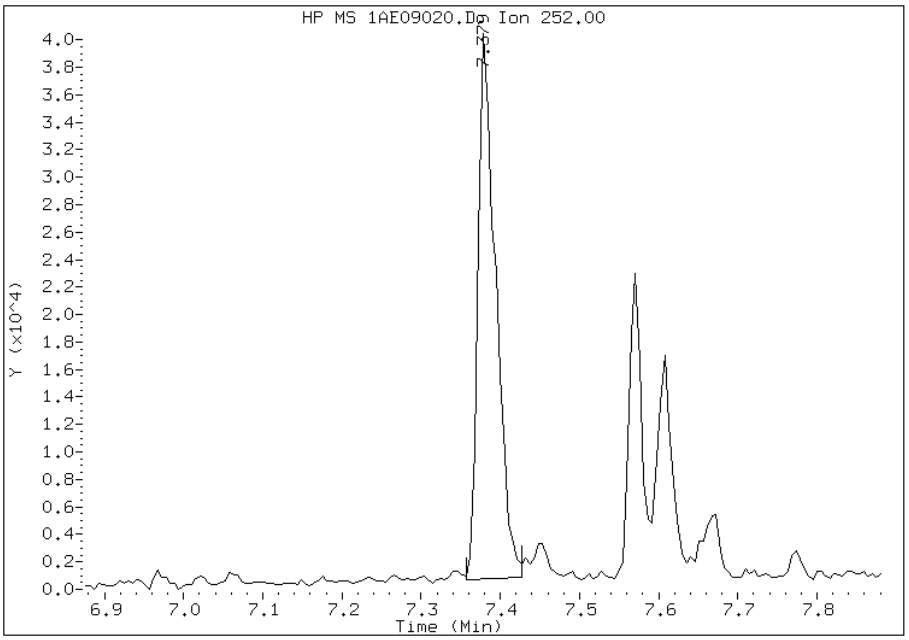
Processing Integration Results

RT: 7.38

Response: 61017

Amount: 3

Conc: 202



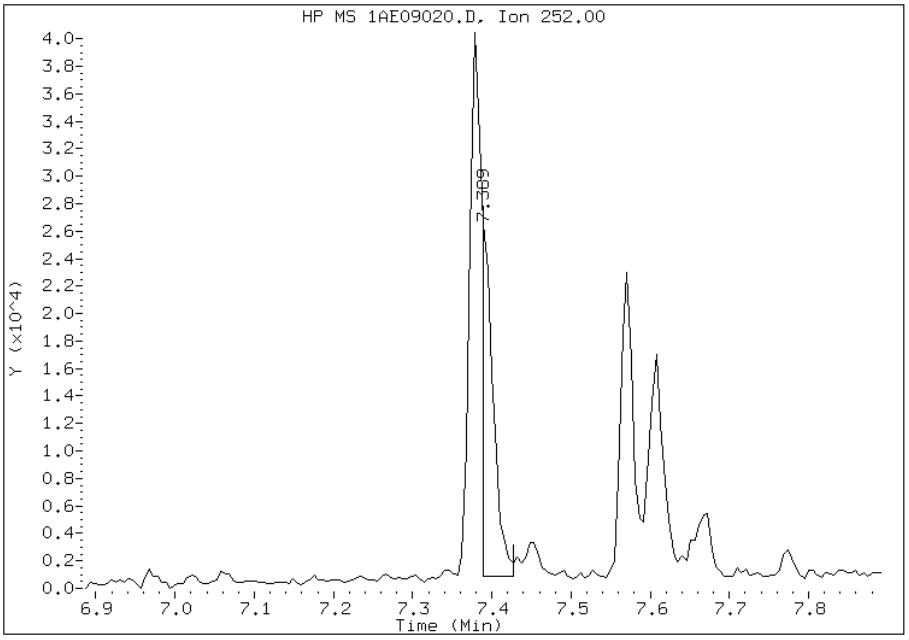
Manual Integration Results

RT: 7.39

Response: 25618

Amount: 1

Conc: 85



Manually Integrated By: cantins
Modification Date: 10-May-2013 11:03
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE09020.D
Inj. Date and Time: 09-MAY-2013 14:57
Instrument ID: BSMA5973.i
Client ID: CV1165A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/10/2013

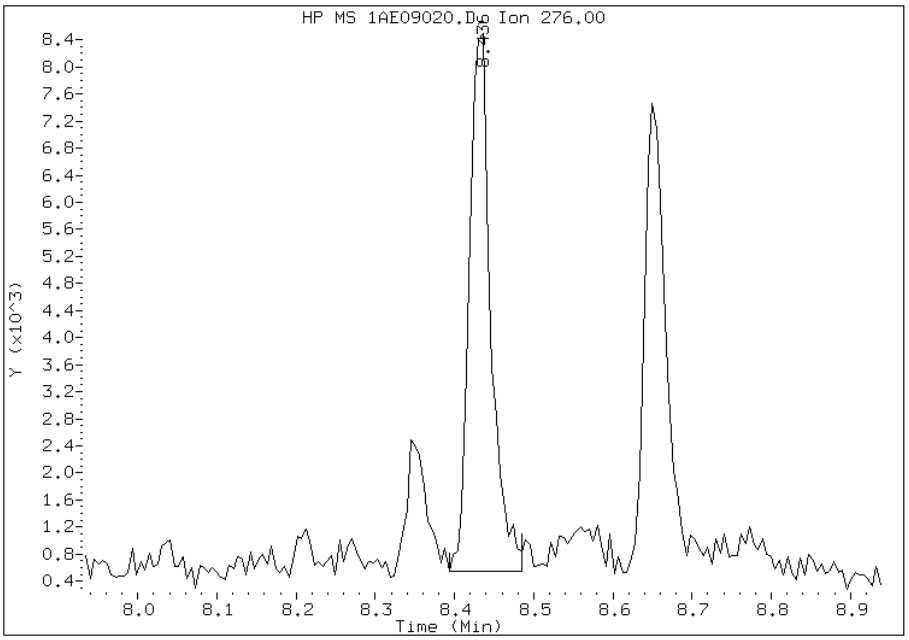
Processing Integration Results

RT: 8.44

Response: 14924

Amount: 1

Conc: 71



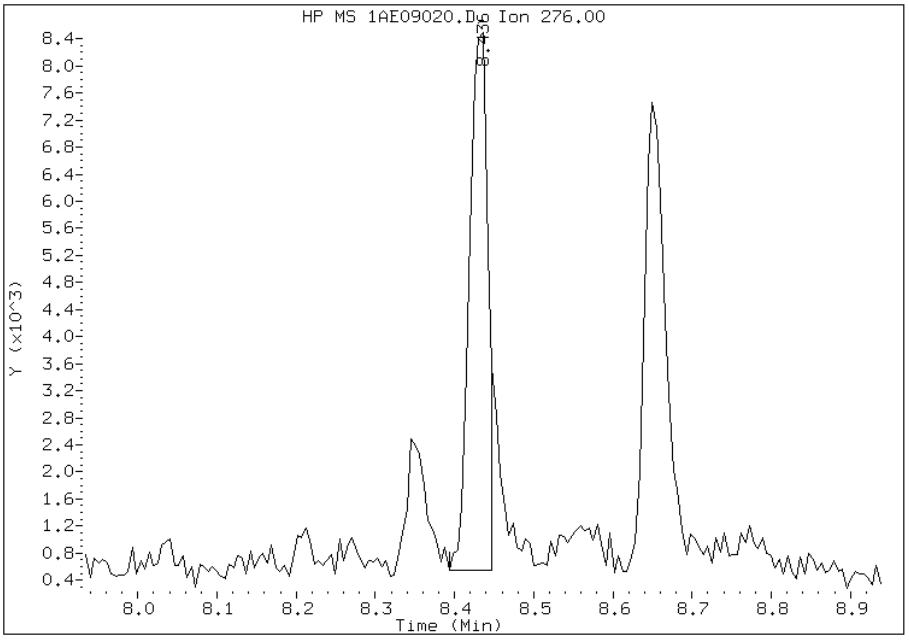
Manual Integration Results

RT: 8.44

Response: 12862

Amount: 1

Conc: 61



Manually Integrated By: cantins
Modification Date: 10-May-2013 11:03
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: CV1165B-CS | Lab Sample ID: 680-89985-19

Matrix: Solid | Lab File ID: 1AE09021.D

Analysis Method: 8270C LL | Date Collected: 05/02/2013 09:30

Extract. Method: 3546 | Date Extracted: 05/08/2013 11:30

Sample wt/vol: 14.95(g) | Date Analyzed: 05/09/2013 15:12

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

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

% Moisture: 22.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137283 | 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	12		11	5.4
56-55-3	Benzo[a]anthracene	10	U	10	5.0
50-32-8	Benzo[a]pyrene	33		13	6.7
205-99-2	Benzo[b]fluoranthene	65		16	7.9
191-24-2	Benzo[g,h,i]perylene	27		26	5.7
207-08-9	Benzo[k]fluoranthene	22		10	4.6
218-01-9	Chrysene	62		12	5.8
53-70-3	Dibenz(a,h)anthracene	26	U	26	5.3
206-44-0	Fluoranthene	58		26	5.2
86-73-7	Fluorene	8.5	J	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	24	J	26	9.2
90-12-0	1-Methylnaphthalene	34	J	52	5.7
91-57-6	2-Methylnaphthalene	38	J	52	9.2
91-20-3	Naphthalene	39	J	52	5.7
85-01-8	Phenanthrene	66		10	5.0
129-00-0	Pyrene	50		26	4.8

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\1A050913.b\1AE09021.D
Lab Smp Id: 680-89985-A-19-A Client Smp ID: CV1165B-CS
Inj Date : 09-MAY-2013 15:12
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89985-a-19-a
Misc Info : 680-89985-A-19-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050913.b\a-bFASTPAHi-m.m
Meth Date : 09-May-2013 11:07 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.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	22.244	% 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	2.543	(1.000)	1046787	40.0000	
* 6 Acenaphthene-d10	164	3.584	3.574	(1.000)	540532	40.0000	
* 10 Phenanthrene-d10	188	4.535	4.520	(1.000)	832058	40.0000	
$ 14 o-Terphenyl	230	4.829	4.819	(1.065)	55528	4.66286	401.1234
* 18 Chrysene-d12	240	6.565	6.539	(1.000)	749686	40.0000	
* 23 Perylene-d12	264	7.660	7.634	(1.000)	695437	40.0000	
2 Naphthalene	128	2.564	2.554	(1.004)	11160	0.45272	38.9453(Q)
3 2-Methylnaphthalene	141	2.970	2.960	(1.163)	5589	0.44612	38.3776
4 1-Methylnaphthalene	142	3.023	3.013	(1.184)	5903	0.39311	33.8173
9 Fluorene	166	3.916	3.906	(1.092)	1636	0.09842	8.4666(Q)
11 Phenanthrene	178	4.551	4.536	(1.004)	15849	0.76886	66.1415
12 Anthracene	178	4.583	4.573	(1.011)	3093	0.14086	12.1173
13 Carbazole	167	4.733	4.707	(1.044)	2889	0.14633	12.5881
15 Fluoranthene	202	5.422	5.401	(1.196)	15979	0.67382	57.9653

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.588	5.567	(0.851)	13889	0.57636	49.5814
19 Chrysene	228	6.581	6.561	(1.002)	16988	0.71661	61.6462
20 Benzo(b)fluoranthene	252	7.383	7.351	(0.964)	13842	0.75304	64.7801(M)
21 Benzo(k)fluoranthene	252	7.393	7.373	(0.965)	5951	0.26096	22.4494(M)
22 Benzo(a)pyrene	252	7.607	7.581	(0.993)	7225	0.38273	32.9239
24 Indeno(1,2,3-cd)pyrene	276	8.435	8.398	(1.101)	4387	0.27740	23.8632(M)
26 Benzo(g,h,i)perylene	276	8.659	8.617	(1.130)	5427	0.31912	27.4520

QC Flag Legend

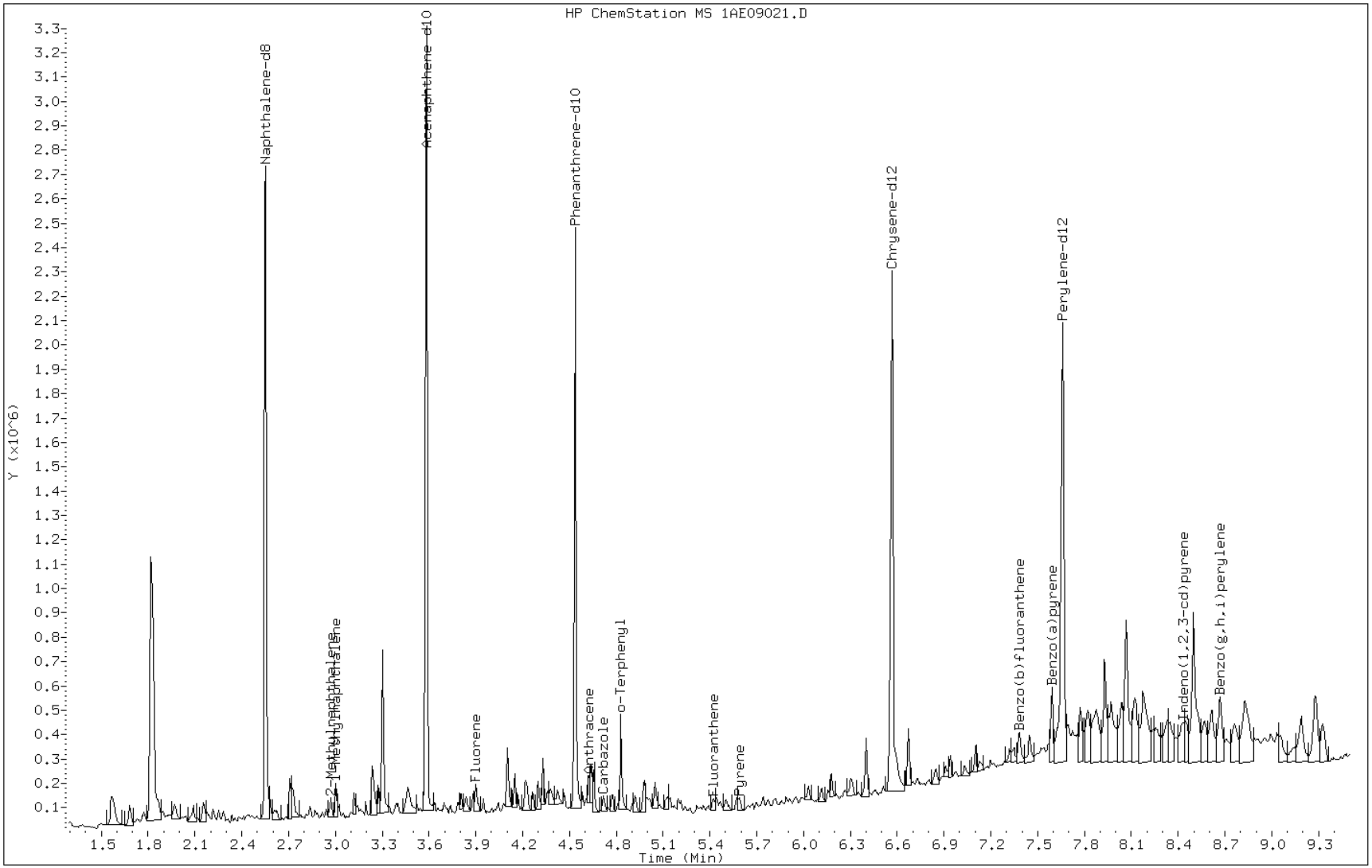
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AE09021.D

Date: 09-MAY-2013 15:12

Client ID: CV1165B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-19-a Operator: SCC



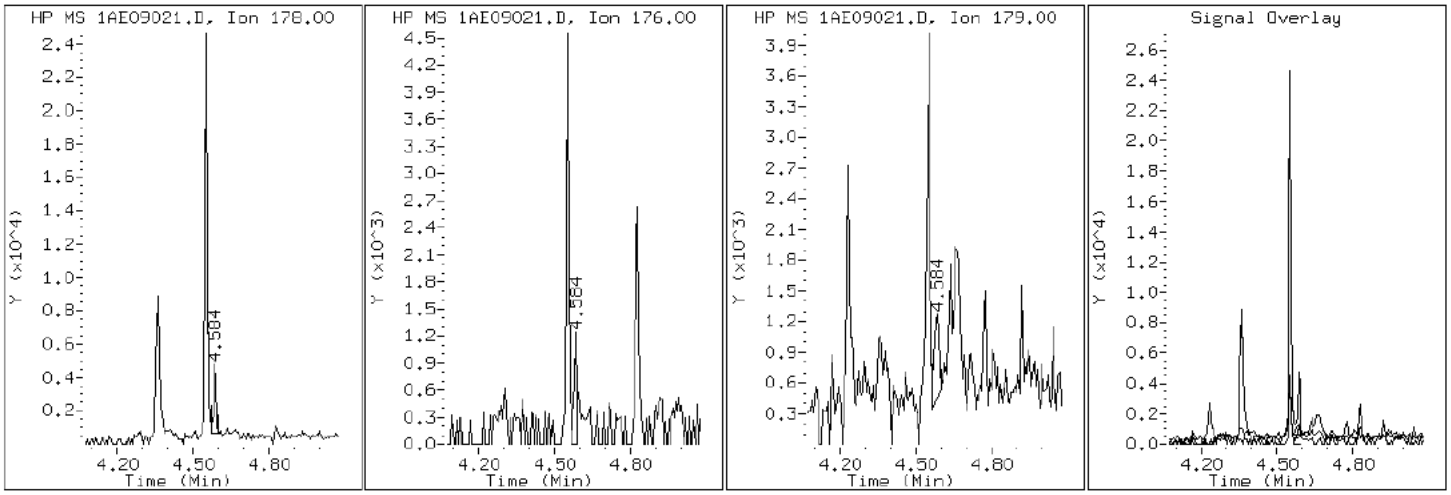
Data File: 1AE09021.D

Date: 09-MAY-2013 15:12

Client ID: CV1165B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-19-a Operator: SCC

12 Anthracene



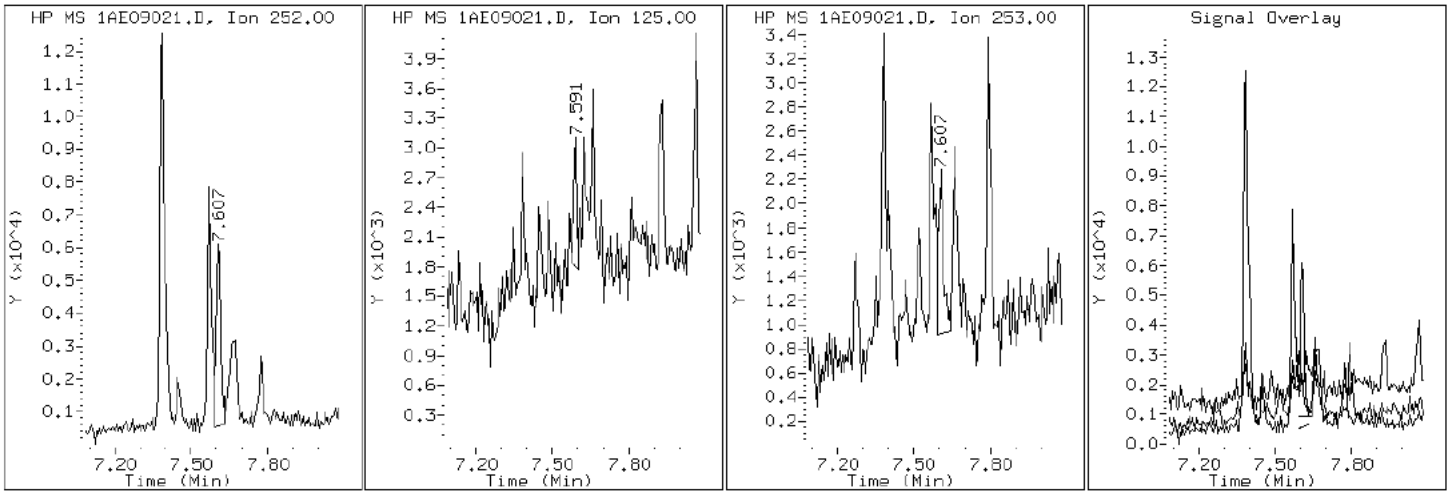
Data File: 1AE09021.D

Date: 09-MAY-2013 15:12

Client ID: CV1165B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-19-a Operator: SCC

22 Benzo(a)pyrene



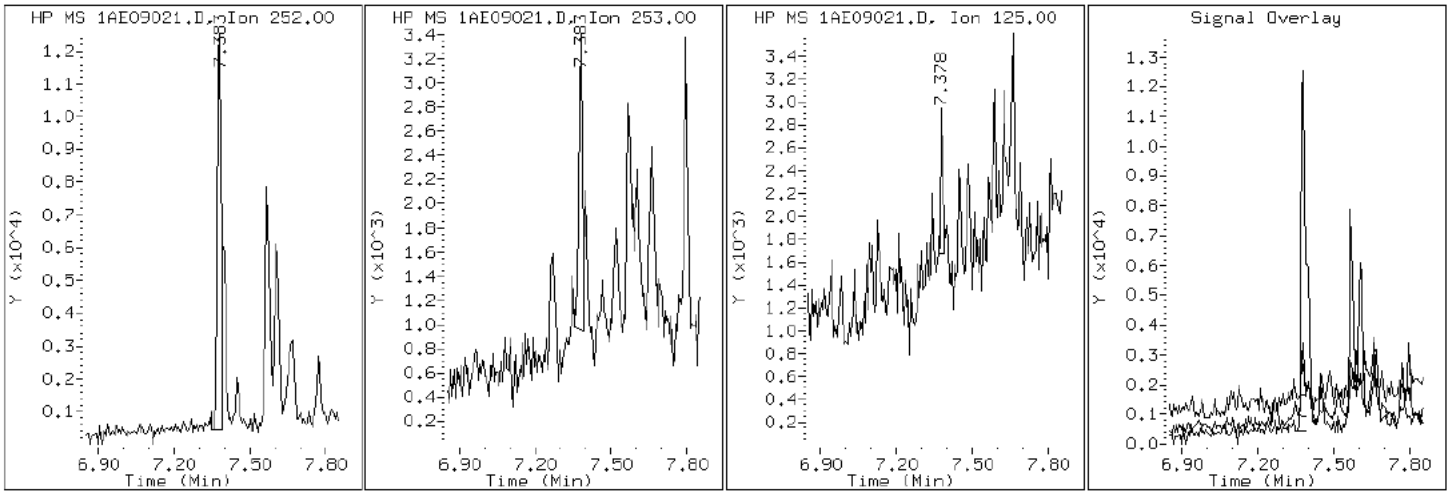
Data File: 1AE09021.D

Date: 09-MAY-2013 15:12

Client ID: CV1165B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-19-a Operator: SCC

20 Benzo(b)fluoranthene



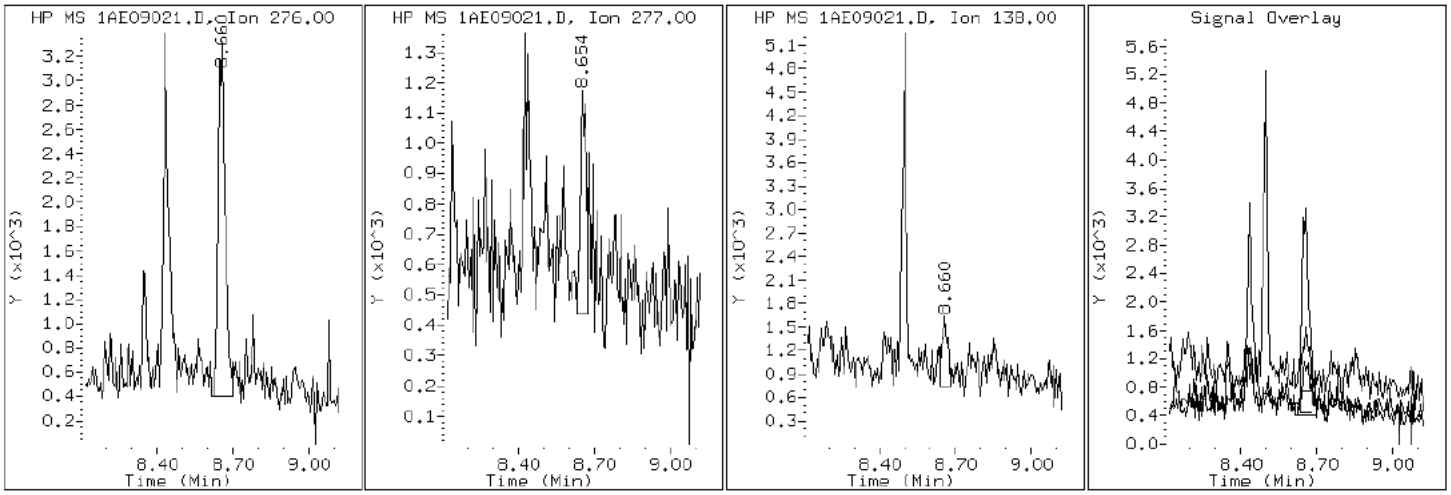
Data File: 1AE09021.D

Date: 09-MAY-2013 15:12

Client ID: CV1165B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-19-a Operator: SCC

26 Benzo(g,h,i)perylene



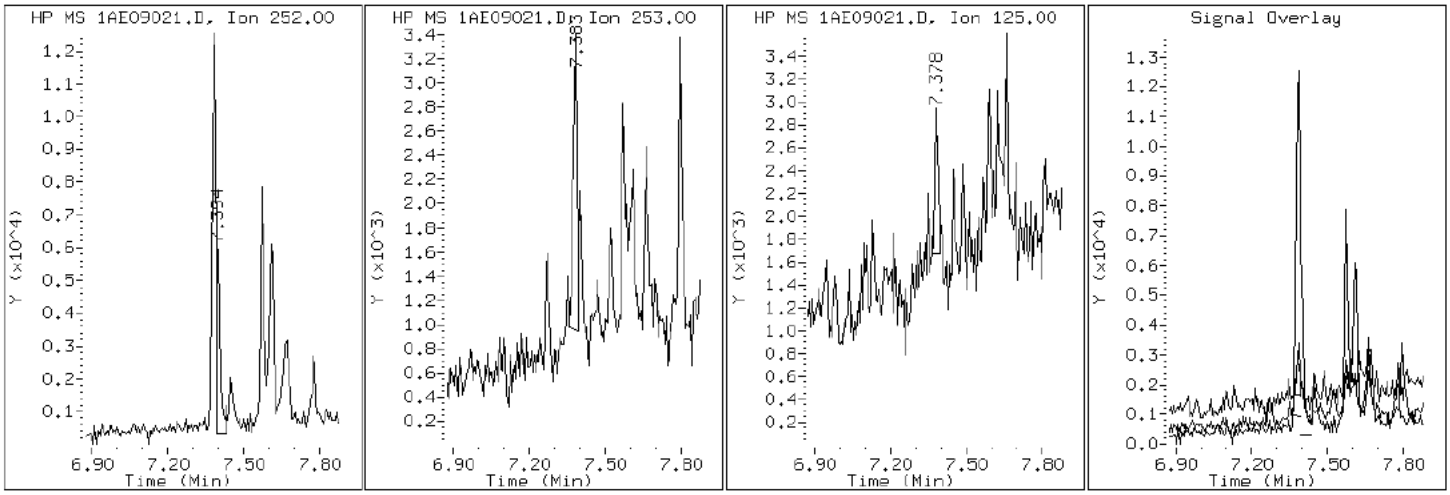
Data File: 1AE09021.D

Date: 09-MAY-2013 15:12

Client ID: CV1165B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-19-a Operator: SCC

21 Benzo(k)fluoranthene



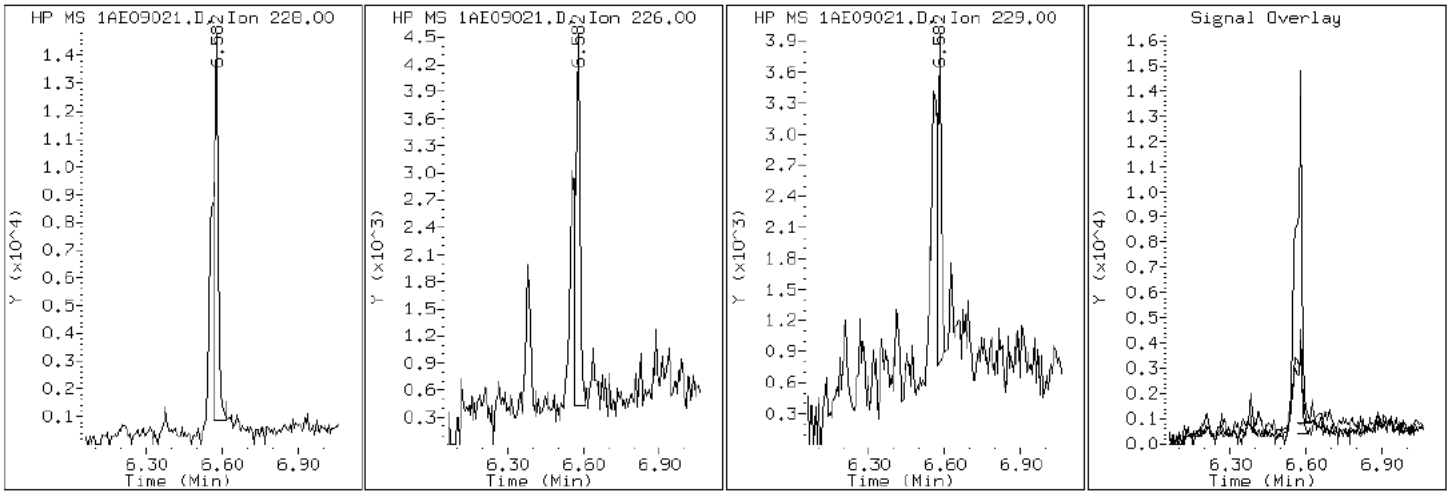
Data File: 1AE09021.D

Date: 09-MAY-2013 15:12

Client ID: CV1165B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-19-a Operator: SCC

19 Chrysene



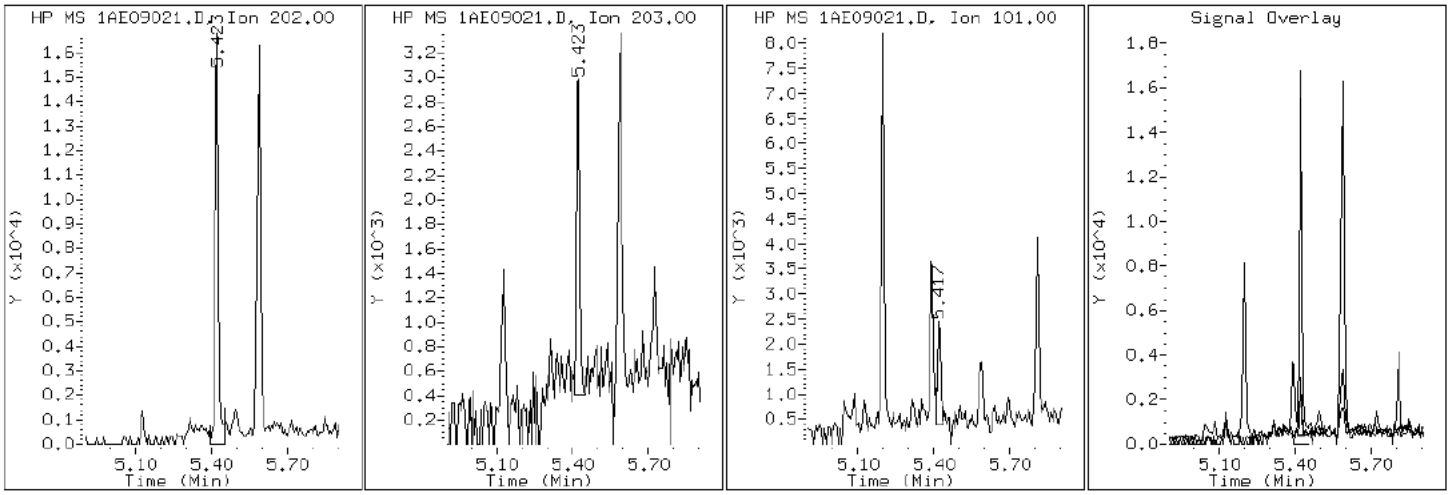
Data File: 1AE09021.D

Date: 09-MAY-2013 15:12

Client ID: CV1165B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-19-a Operator: SCC

15 Fluoranthene



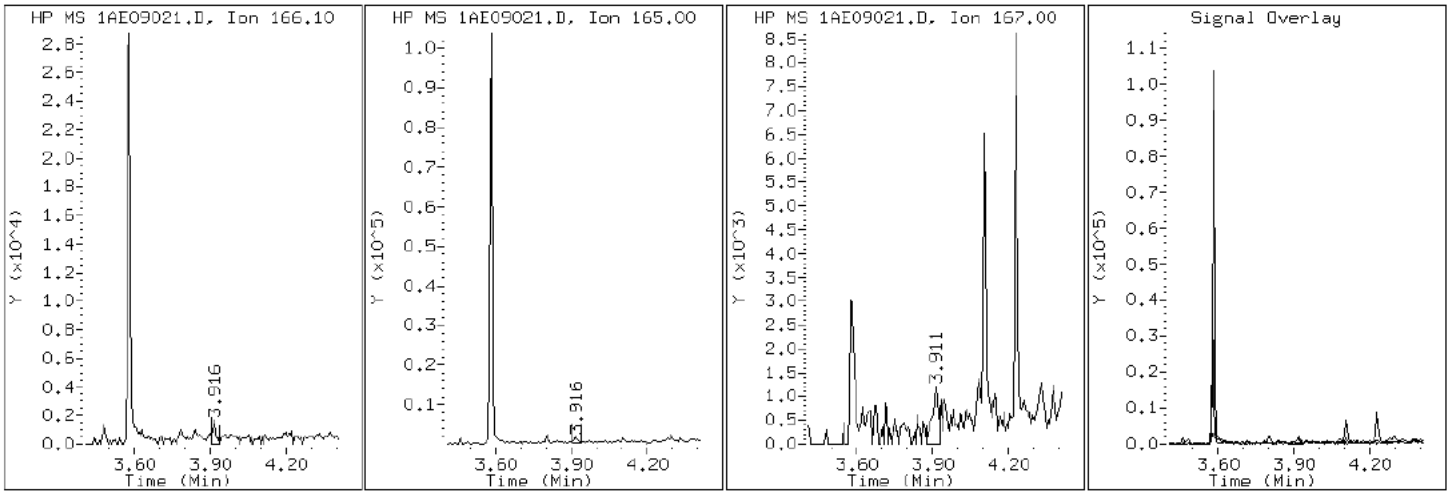
Data File: 1AE09021.D

Date: 09-MAY-2013 15:12

Client ID: CV1165B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-19-a Operator: SCC

9 Fluorene



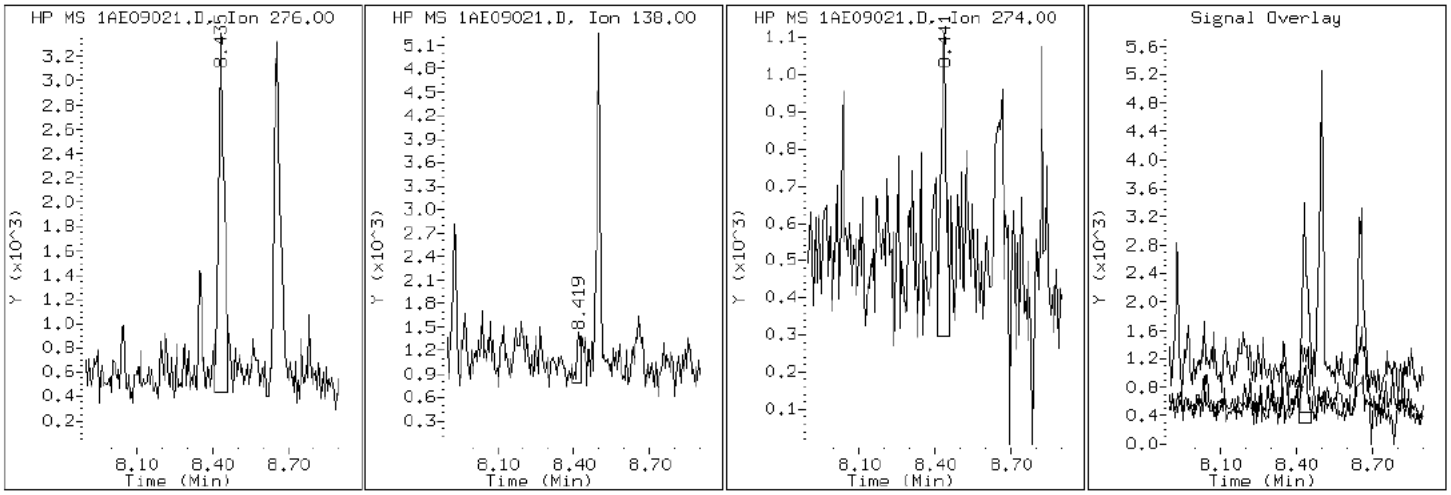
Data File: 1AE09021.D

Date: 09-MAY-2013 15:12

Client ID: CV1165B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-19-a Operator: SCC

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



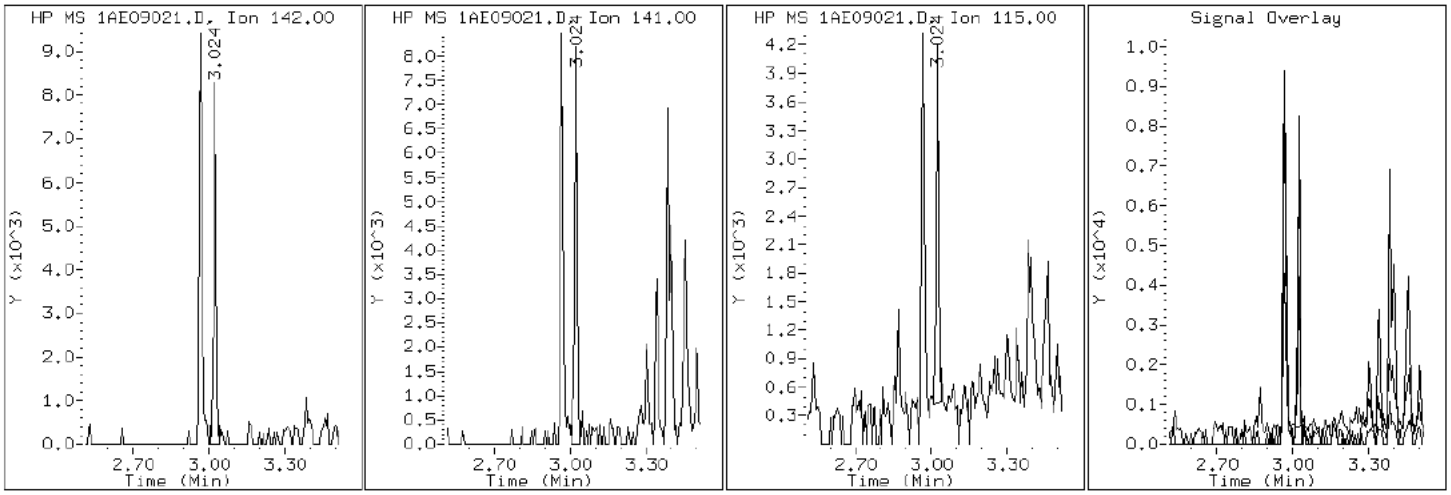
Data File: 1AE09021.D

Date: 09-MAY-2013 15:12

Client ID: CV1165B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-19-a Operator: SCC

4 1-Methylnaphthalene



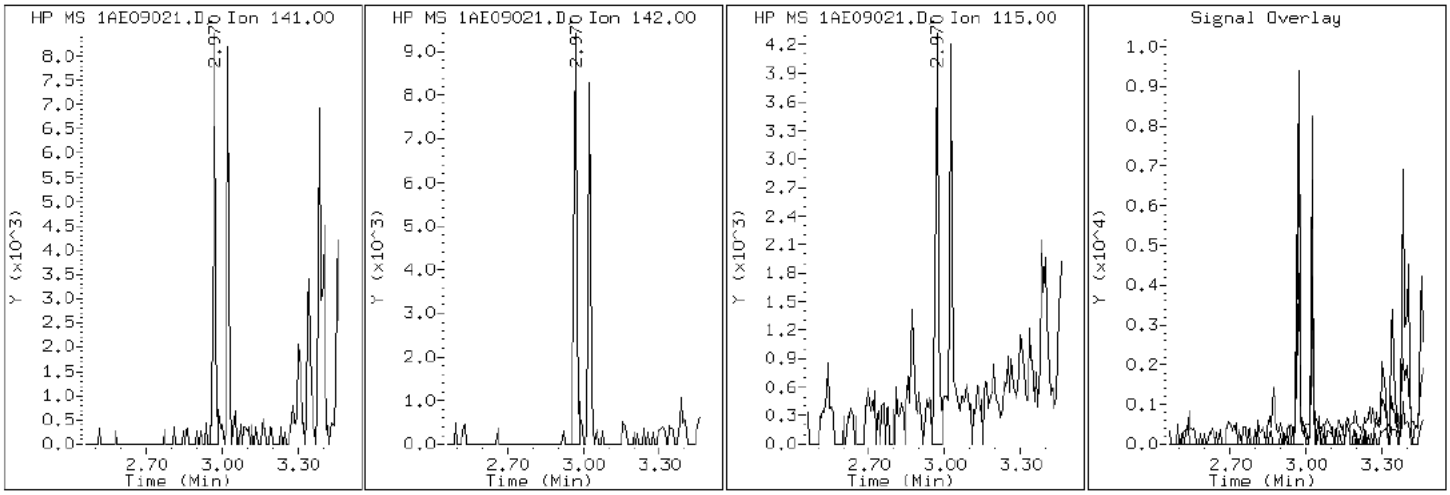
Data File: 1AE09021.D

Date: 09-MAY-2013 15:12

Client ID: CV1165B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-19-a Operator: SCC

3 2-Methylnaphthalene



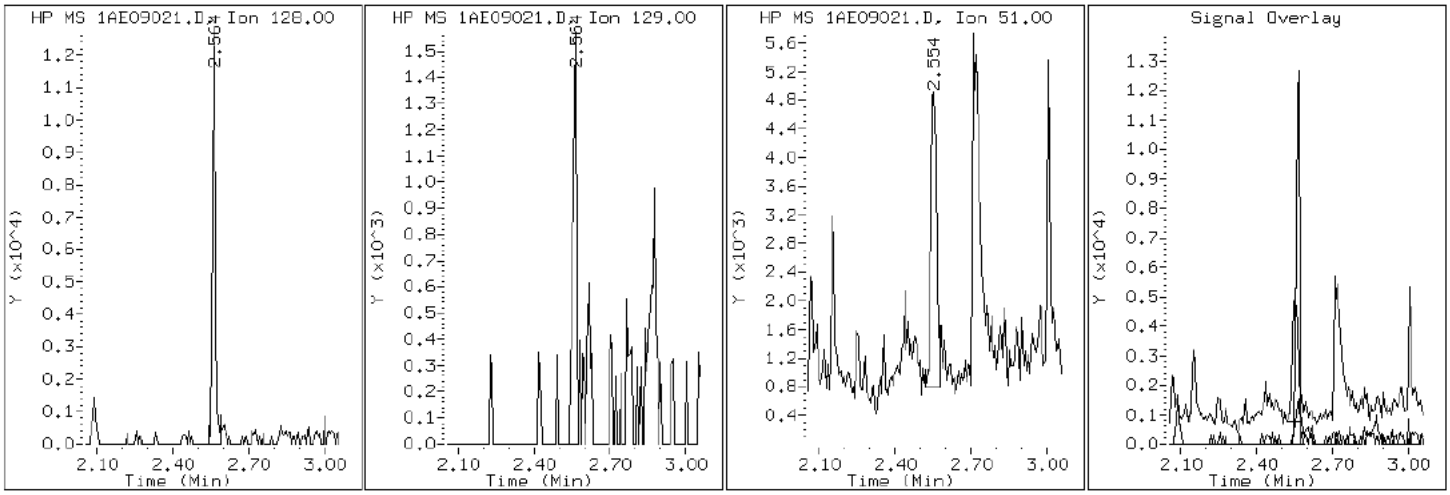
Data File: 1AE09021.D

Date: 09-MAY-2013 15:12

Client ID: CV1165B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-19-a Operator: SCC

2 Naphthalene



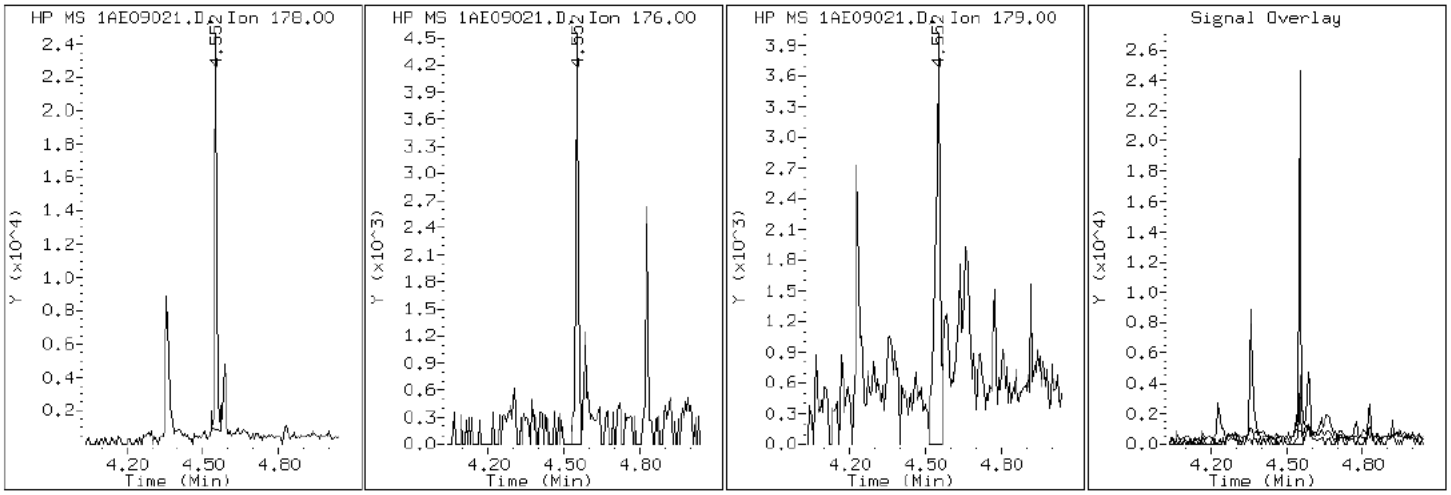
Data File: 1AE09021.D

Date: 09-MAY-2013 15:12

Client ID: CV1165B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-19-a Operator: SCC

11 Phenanthrene



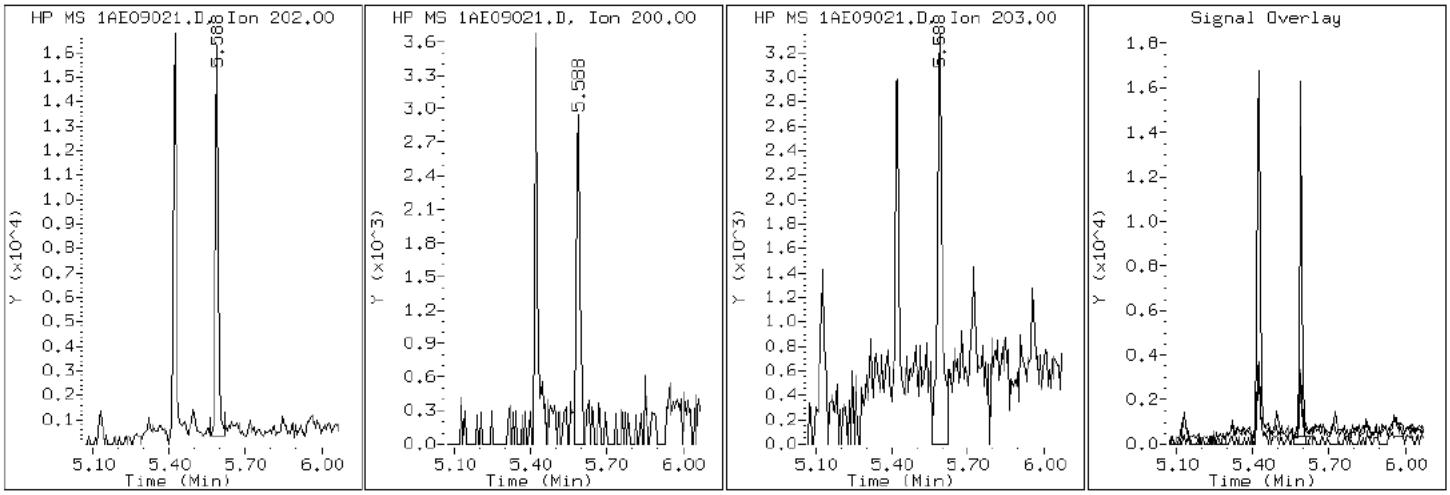
Data File: 1AE09021.D

Date: 09-MAY-2013 15:12

Client ID: CV1165B-CS Instrument: BSMA5973.i

Sample Info: 680-89985-a-19-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE09021.D
Inj. Date and Time: 09-MAY-2013 15:12
Instrument ID: BSMA5973.i
Client ID: CV1165B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/10/2013

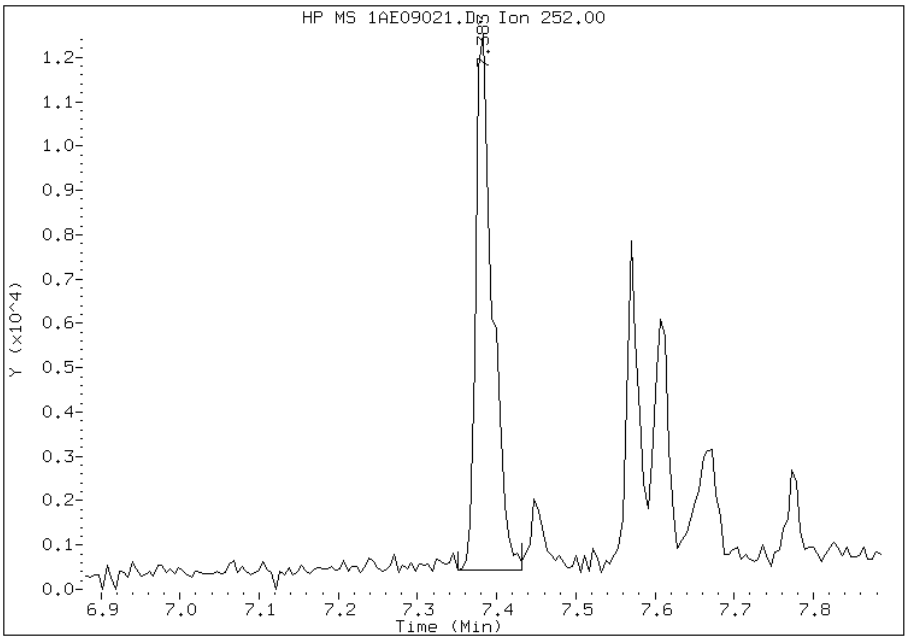
Processing Integration Results

RT: 7.38

Response: 17736

Amount: 1

Conc: 83



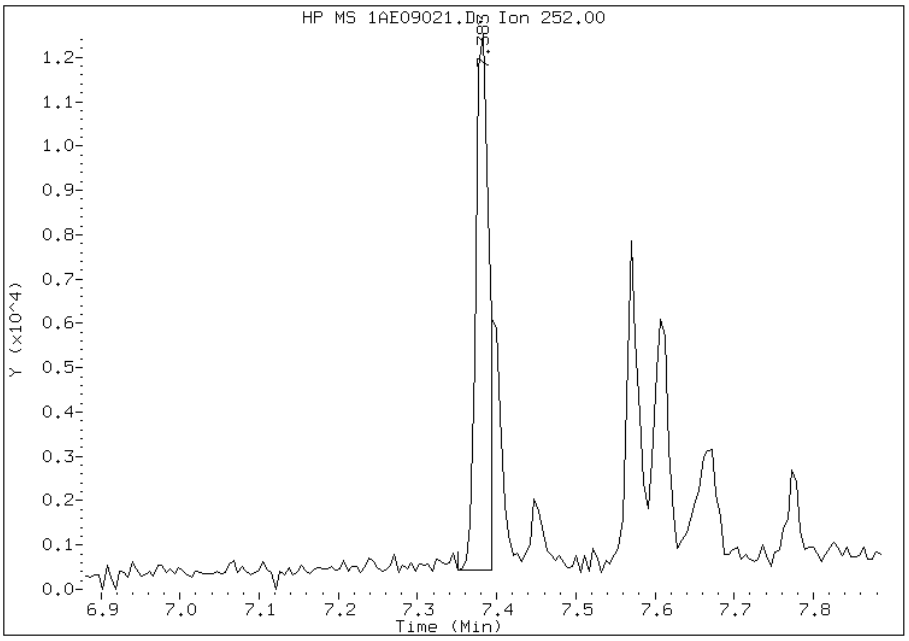
Manual Integration Results

RT: 7.38

Response: 13842

Amount: 1

Conc: 65



Manually Integrated By: cantins
Modification Date: 10-May-2013 11:04
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE09021.D
Inj. Date and Time: 09-MAY-2013 15:12
Instrument ID: BSMA5973.i
Client ID: CV1165B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/10/2013

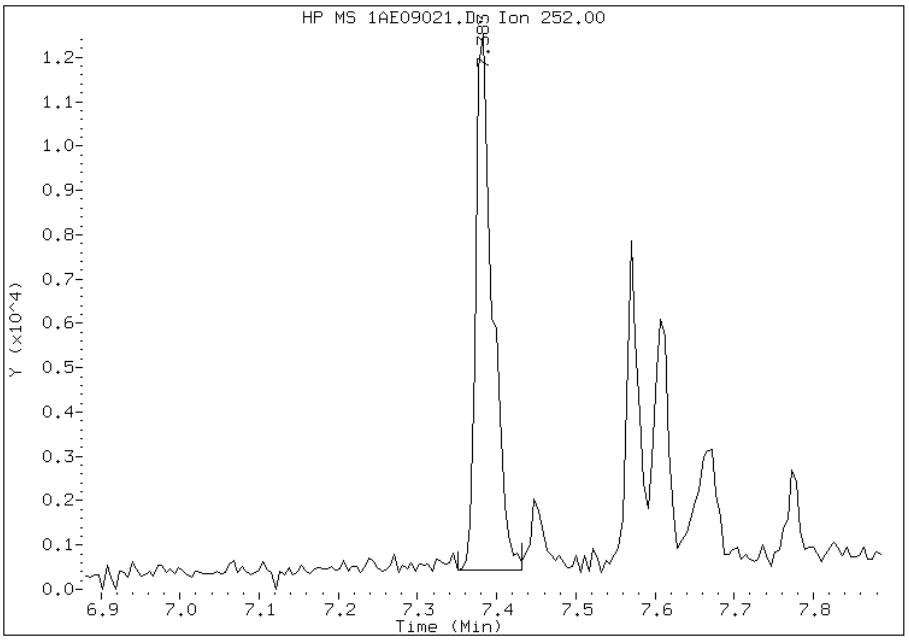
Processing Integration Results

RT: 7.38

Response: 17736

Amount: 1

Conc: 67



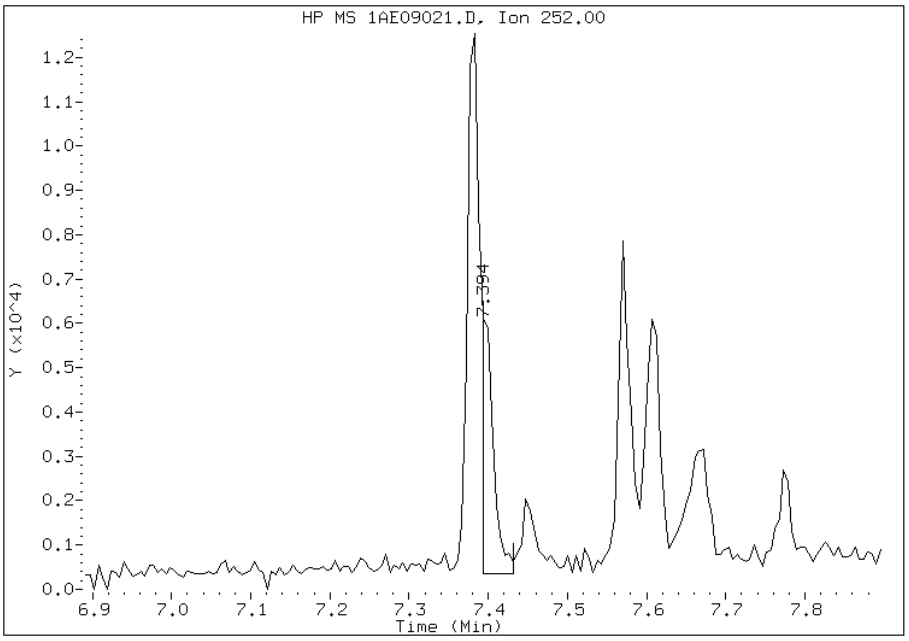
Manual Integration Results

RT: 7.39

Response: 5951

Amount: 0

Conc: 22



Manually Integrated By: cantins
Modification Date: 10-May-2013 11:05
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE09021.D
Inj. Date and Time: 09-MAY-2013 15:12
Instrument ID: BSMA5973.i
Client ID: CV1165B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/10/2013

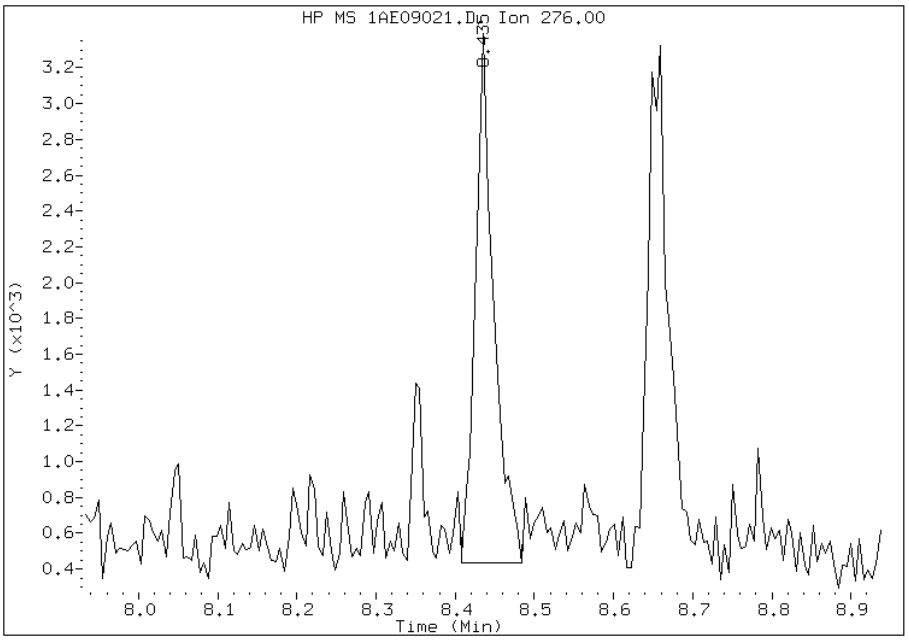
Processing Integration Results

RT: 8.44

Response: 4713

Amount: 0

Conc: 26



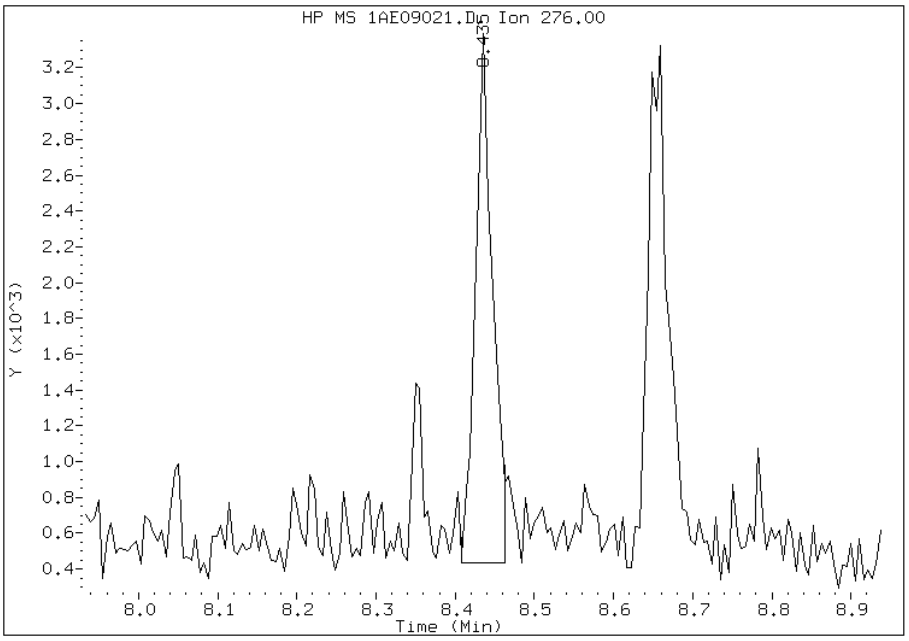
Manual Integration Results

RT: 8.44

Response: 4387

Amount: 0

Conc: 24



Manually Integrated By: cantins
Modification Date: 10-May-2013 11:05
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: CV1165B-CSD | Lab Sample ID: 680-89985-20

Matrix: Solid | Lab File ID: 1AE09022.D

Analysis Method: 8270C LL | Date Collected: 05/02/2013 09:30

Extract. Method: 3546 | Date Extracted: 05/08/2013 11:30

Sample wt/vol: 14.95(g) | Date Analyzed: 05/09/2013 15:27

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

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

% Moisture: 20.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137283 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	100
208-96-8	Acenaphthylene	200	U	200	25
120-12-7	Anthracene	25	J	42	21
56-55-3	Benzo[a]anthracene	120		40	20
50-32-8	Benzo[a]pyrene	51	J	52	26
205-99-2	Benzo[b]fluoranthene	100		62	31
191-24-2	Benzo[g,h,i]perylene	69	J	100	22
207-08-9	Benzo[k]fluoranthene	32	J	40	18
218-01-9	Chrysene	94		45	23
53-70-3	Dibenz(a,h)anthracene	22	J	100	21
206-44-0	Fluoranthene	86	J	100	20
86-73-7	Fluorene	100	U	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	51	J	100	36
90-12-0	1-Methylnaphthalene	52	J	200	22
91-57-6	2-Methylnaphthalene	72	J	200	36
91-20-3	Naphthalene	66	J	200	22
85-01-8	Phenanthrene	120		40	20
129-00-0	Pyrene	88	J	100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050913.b\1AE09022.D
Lab Smp Id: 680-89985-A-20-A Client Smp ID: CV1165B-CSD
Inj Date : 09-MAY-2013 15:27
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89985-a-20-a
Misc Info : 680-89985-A-20-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050913.b\a-bFASTPAHi-m.m
Meth Date : 09-May-2013 11:07 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 29
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	20.426	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Naphthalene-d8	136	2.551	2.543	(1.000)	1039857	40.0000	
*	6 Acenaphthene-d10	164	3.582	3.574	(1.000)	550423	40.0000	
*	10 Phenanthrene-d10	188	4.539	4.520	(1.000)	824868	40.0000	
$	14 o-Terphenyl	230	4.827	4.819	(1.064)	15914	1.34800	453.2505
*	18 Chrysene-d12	240	6.569	6.539	(1.000)	718195	40.0000	
*	23 Perylene-d12	264	7.664	7.634	(1.000)	704585	40.0000	
	2 Naphthalene	128	2.562	2.554	(1.004)	4817	0.19671	66.1419(Q)
	3 2-Methylnaphthalene	141	2.968	2.960	(1.163)	2681	0.21543	72.4352
	4 1-Methylnaphthalene	142	3.022	3.013	(1.184)	2310	0.15486	52.0699
	11 Phenanthrene	178	4.549	4.536	(1.002)	7224	0.35350	118.8619
	12 Anthracene	178	4.587	4.573	(1.011)	1592	0.07313	24.5903(Q)
	15 Fluoranthene	202	5.420	5.401	(1.194)	6035	0.25671	86.3155
	16 Pyrene	202	5.586	5.567	(0.850)	6017	0.26064	87.6373
	17 Benzo(a)anthracene	228	6.563	6.534	(0.999)	7469	0.37004	124.4217(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
19 Chrysene	228	6.579	6.561	(1.002)	6354	0.27978	94.0746(Q)
20 Benzo(b)fluoranthene	252	7.381	7.351	(0.963)	5528	0.29683	99.8065(M)
21 Benzo(k)fluoranthene	252	7.391	7.373	(0.964)	2207	0.09553	32.1193(QM)
22 Benzo(a)pyrene	252	7.605	7.581	(0.992)	2887	0.15095	50.7539
24 Indeno(1,2,3-cd)pyrene	276	8.428	8.398	(1.100)	2454	0.15316	51.4973(M)
25 Dibenzo(a,h)anthracene	278	8.449	8.425	(1.102)	1068	0.06503	21.8641(MH)
26 Benzo(g,h,i)perylene	276	8.647	8.617	(1.128)	3540	0.20546	69.0821(M)

QC Flag Legend

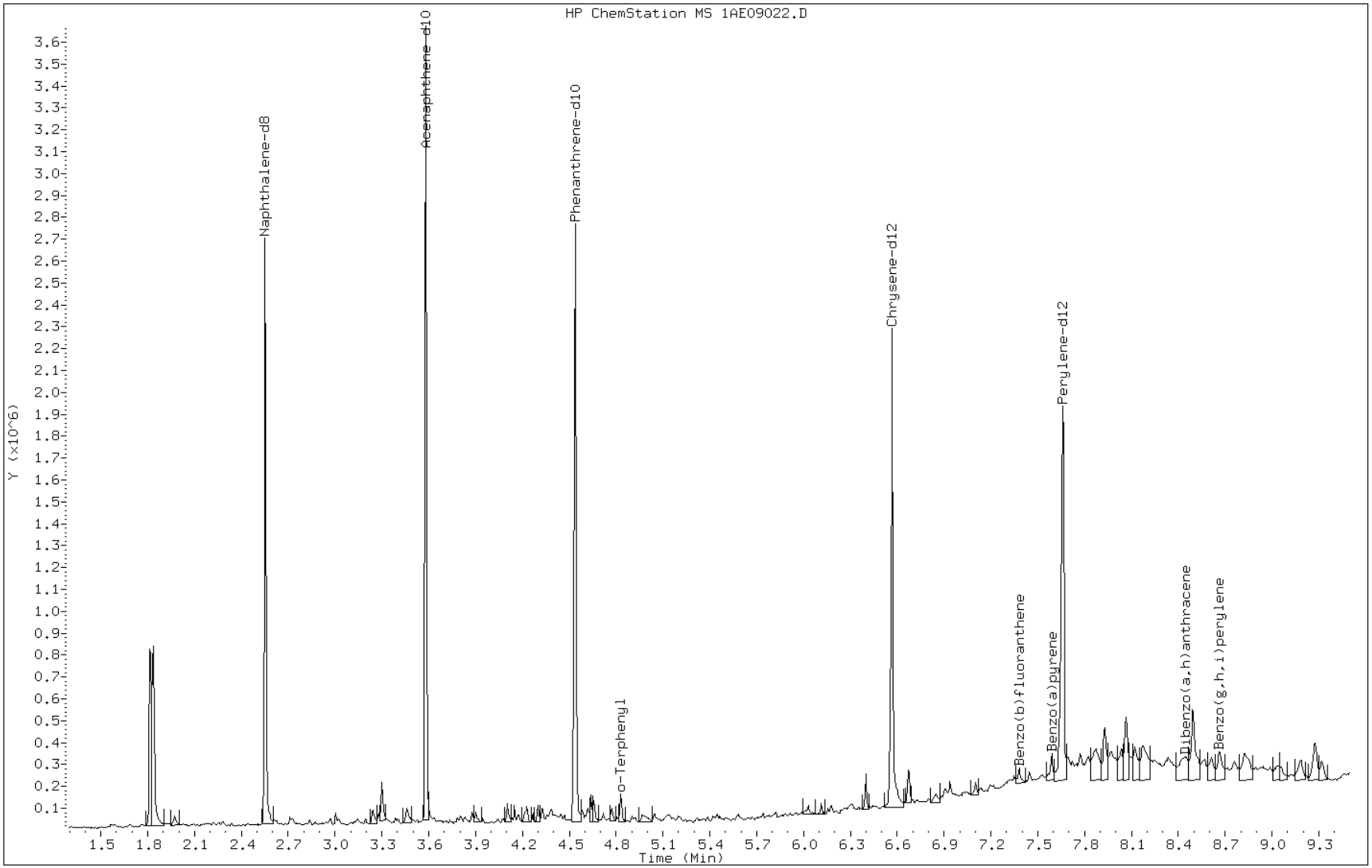
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AE09022.D

Date: 09-MAY-2013 15:27

Client ID: CV1165B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-20-a Operator: SCC



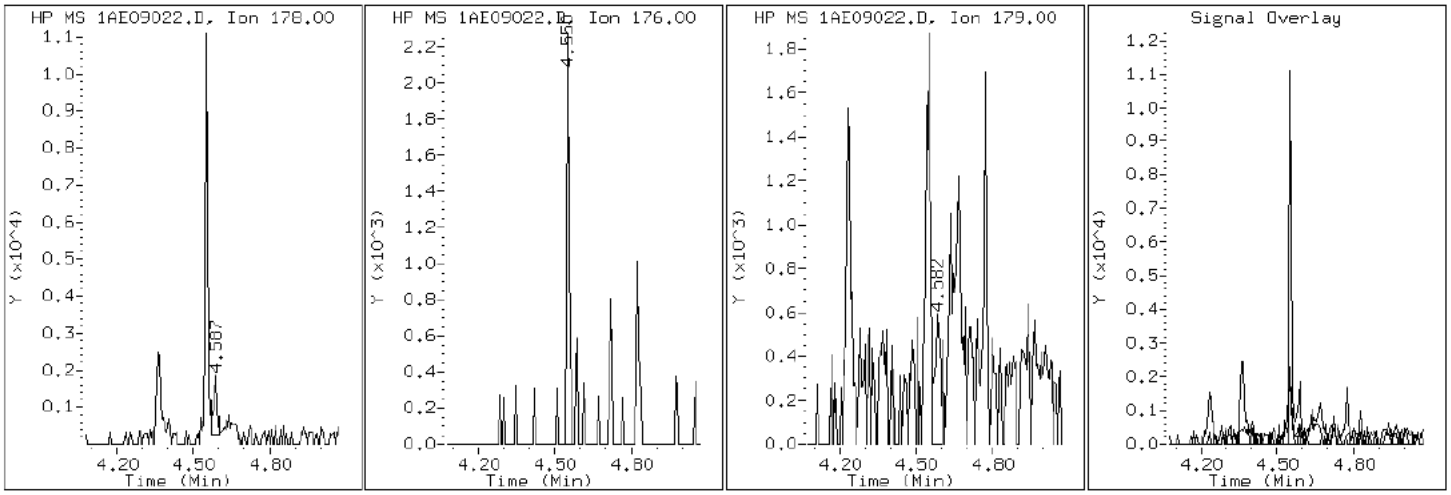
Data File: 1AE09022.D

Date: 09-MAY-2013 15:27

Client ID: CV1165B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-20-a Operator: SCC

12 Anthracene



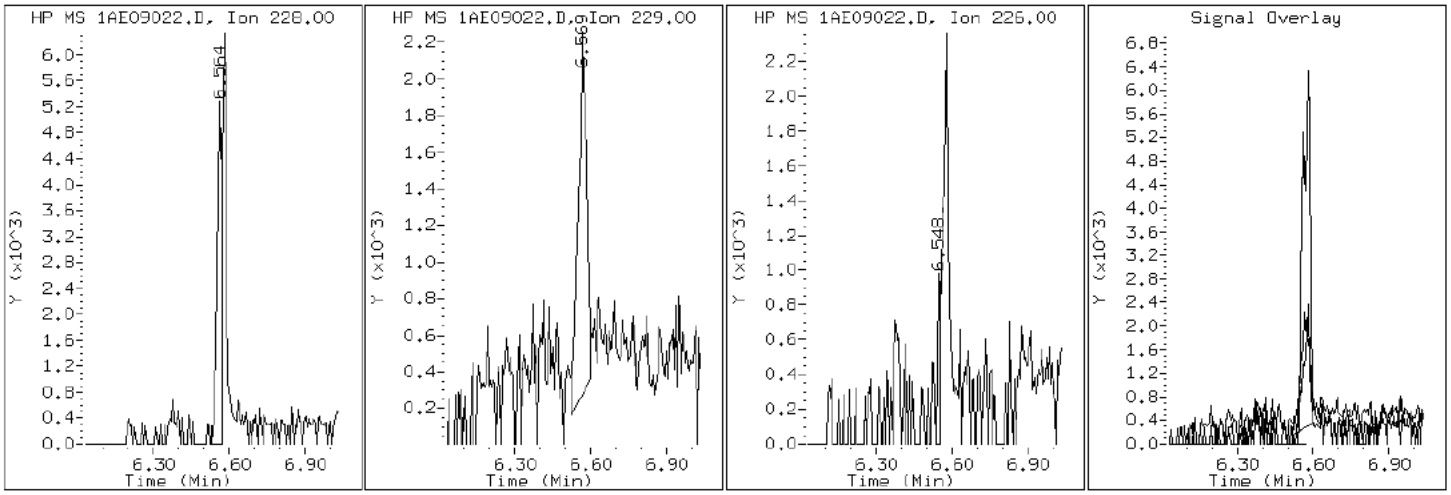
Data File: 1AE09022.D

Date: 09-MAY-2013 15:27

Client ID: CV1165B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-20-a Operator: SCC

17 Benzo(a)anthracene



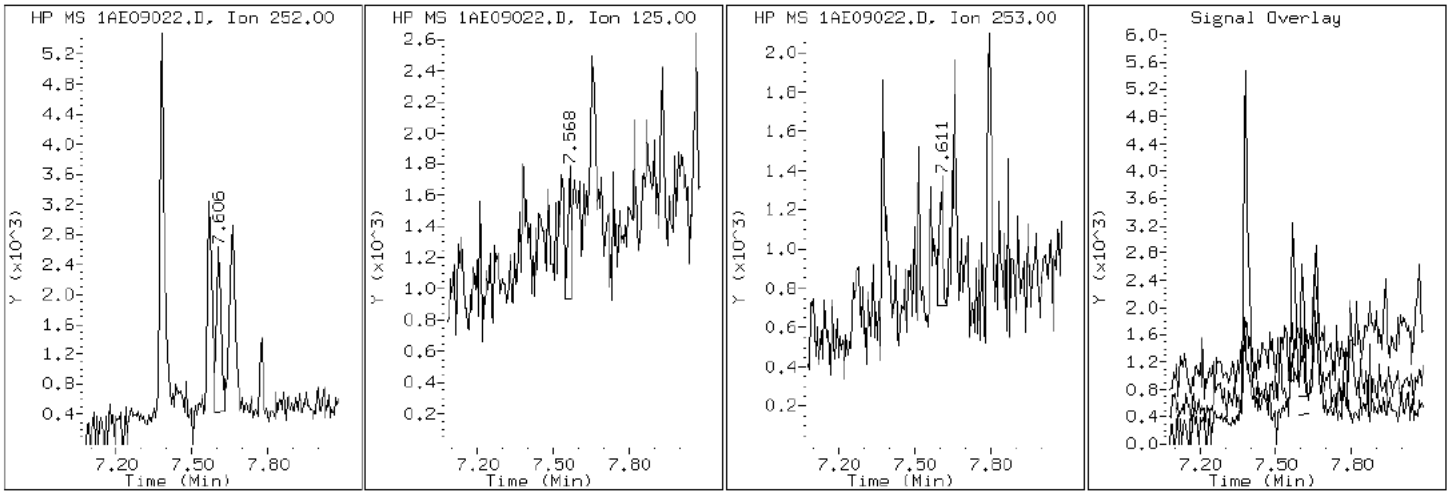
Data File: 1AE09022.D

Date: 09-MAY-2013 15:27

Client ID: CV1165B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-20-a Operator: SCC

22 Benzo(a)pyrene



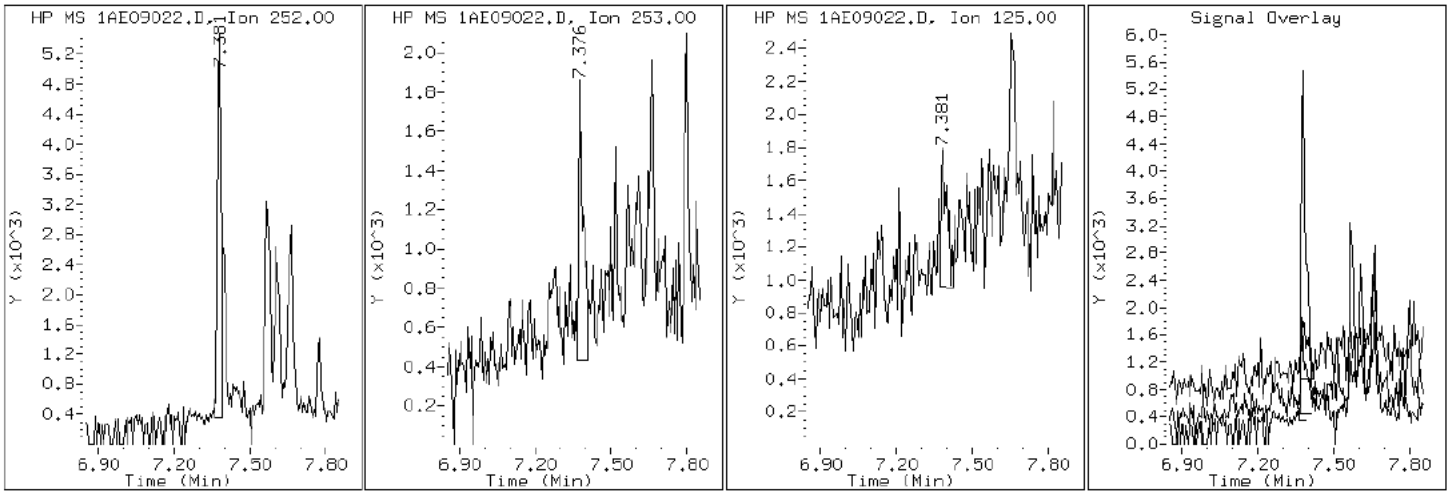
Data File: 1AE09022.D

Date: 09-MAY-2013 15:27

Client ID: CV1165B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-20-a Operator: SCC

20 Benzo(b)fluoranthene



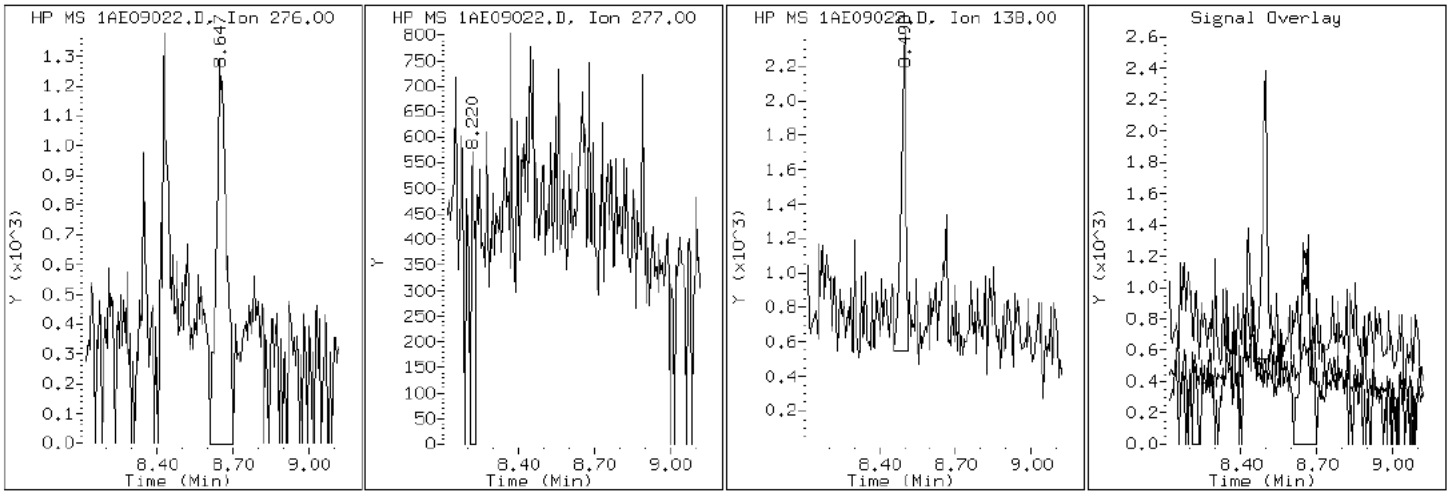
Data File: 1AE09022.D

Date: 09-MAY-2013 15:27

Client ID: CV1165B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-20-a Operator: SCC

26 Benzo(g,h,i)perylene



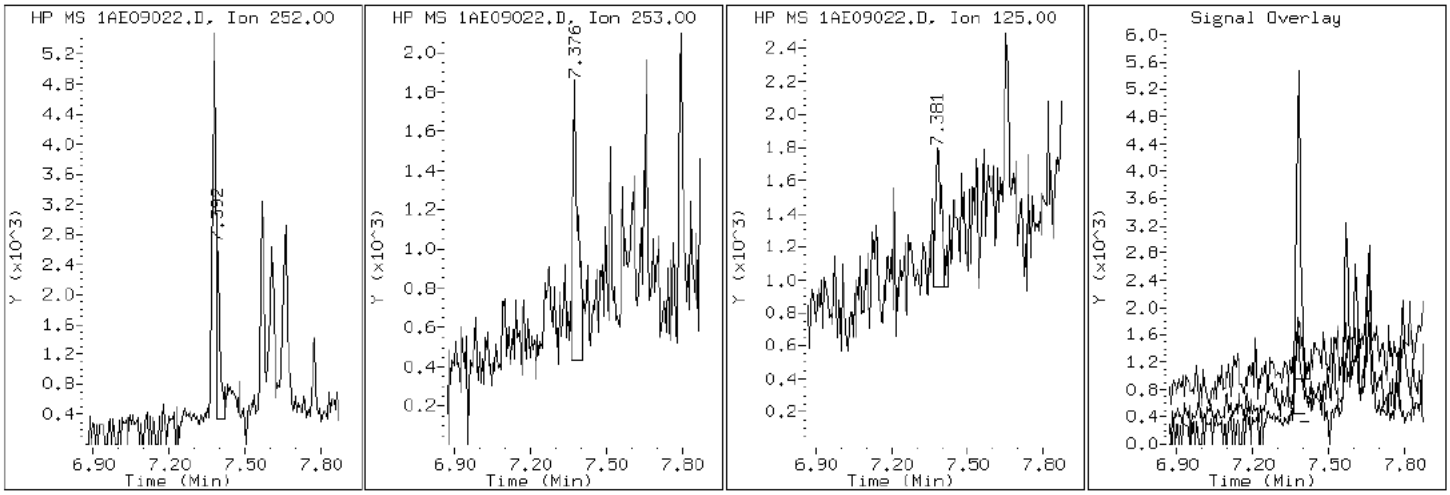
Data File: 1AE09022.D

Date: 09-MAY-2013 15:27

Client ID: CV1165B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-20-a Operator: SCC

21 Benzo(k)fluoranthene



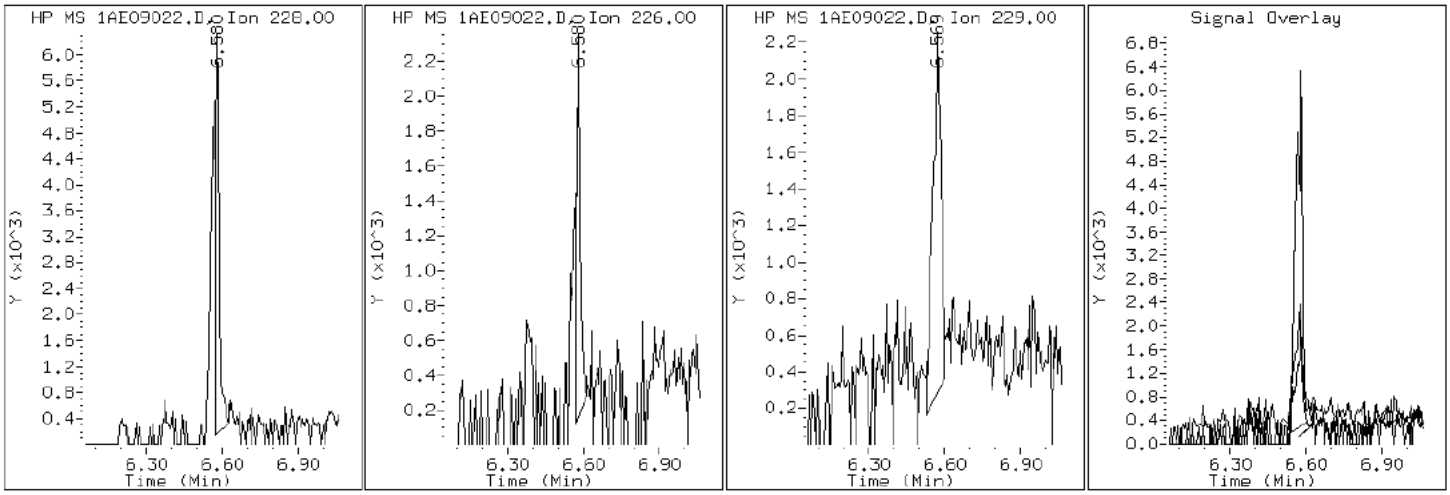
Data File: 1AE09022.D

Date: 09-MAY-2013 15:27

Client ID: CV1165B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-20-a Operator: SCC

19 Chrysene



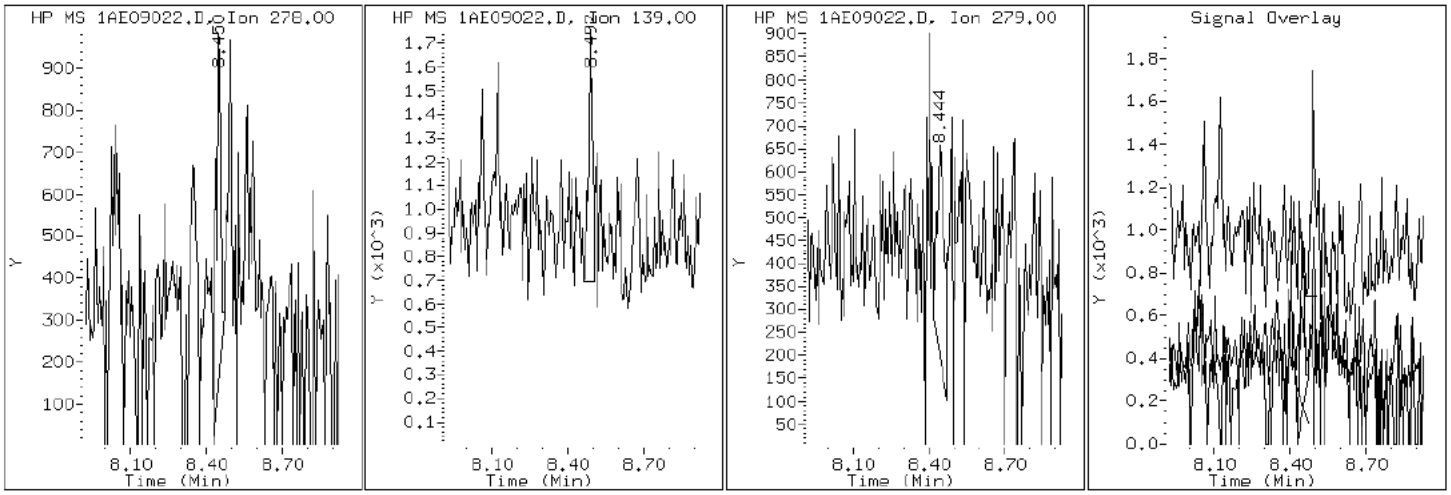
Data File: 1AE09022.D

Date: 09-MAY-2013 15:27

Client ID: CV1165B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-20-a Operator: SCC

25 Dibenzo(a,h)anthracene



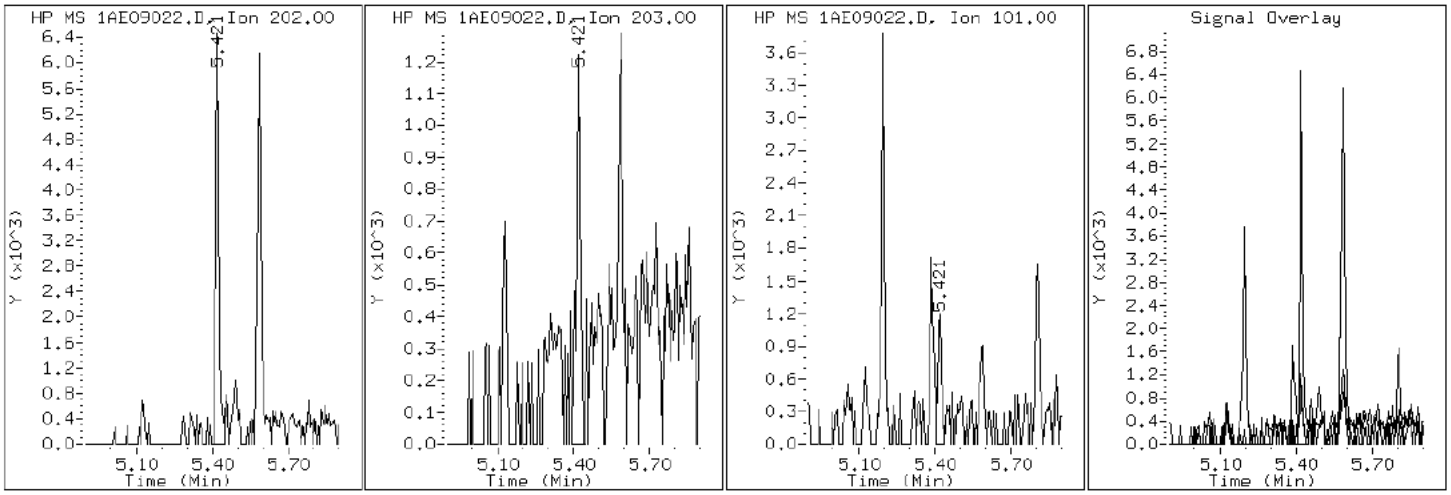
Data File: 1AE09022.D

Date: 09-MAY-2013 15:27

Client ID: CV1165B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-20-a Operator: SCC

15 Fluoranthene



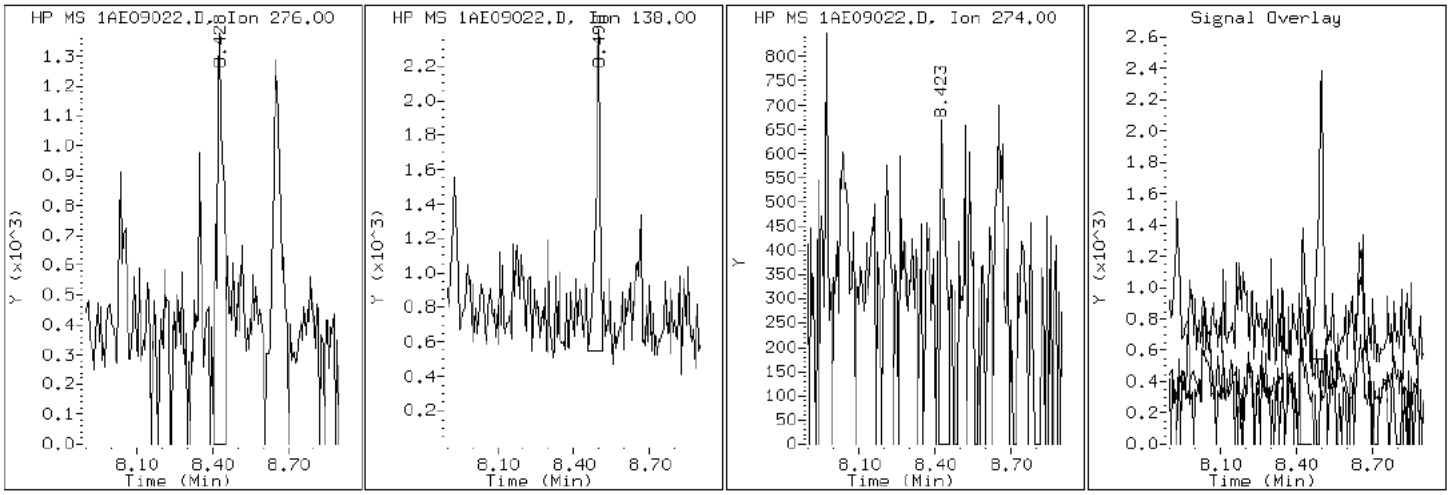
Data File: 1AE09022.D

Date: 09-MAY-2013 15:27

Client ID: CV1165B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-20-a Operator: SCC

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



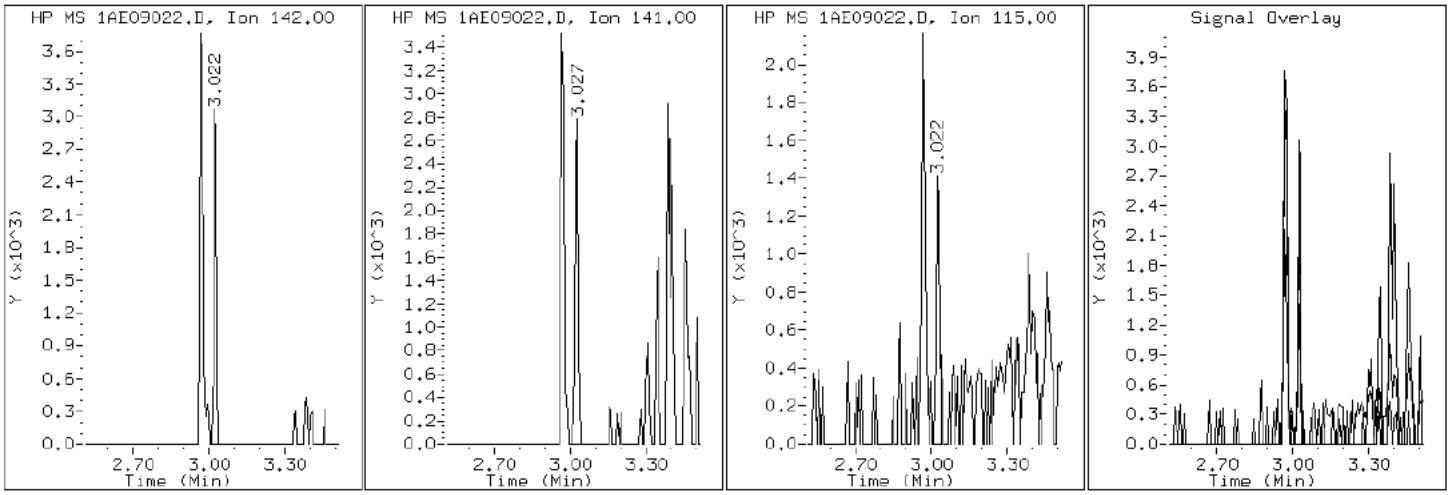
Data File: 1AE09022.D

Date: 09-MAY-2013 15:27

Client ID: CV1165B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-20-a Operator: SCC

4 1-Methylnaphthalene



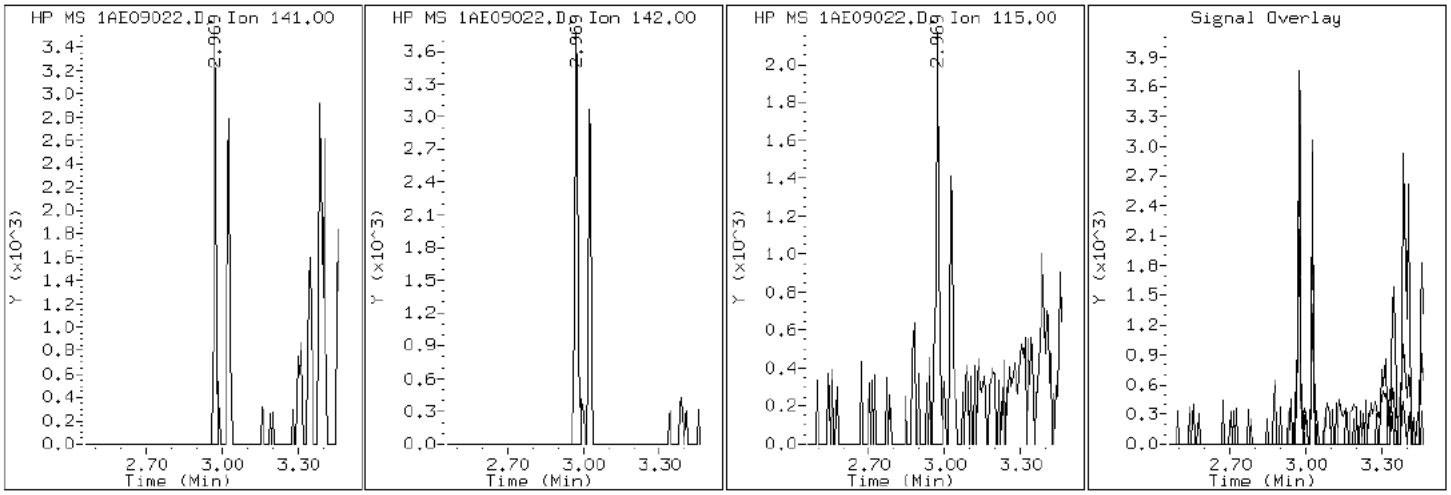
Data File: 1AE09022.D

Date: 09-MAY-2013 15:27

Client ID: CV1165B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-20-a Operator: SCC

3 2-Methylnaphthalene



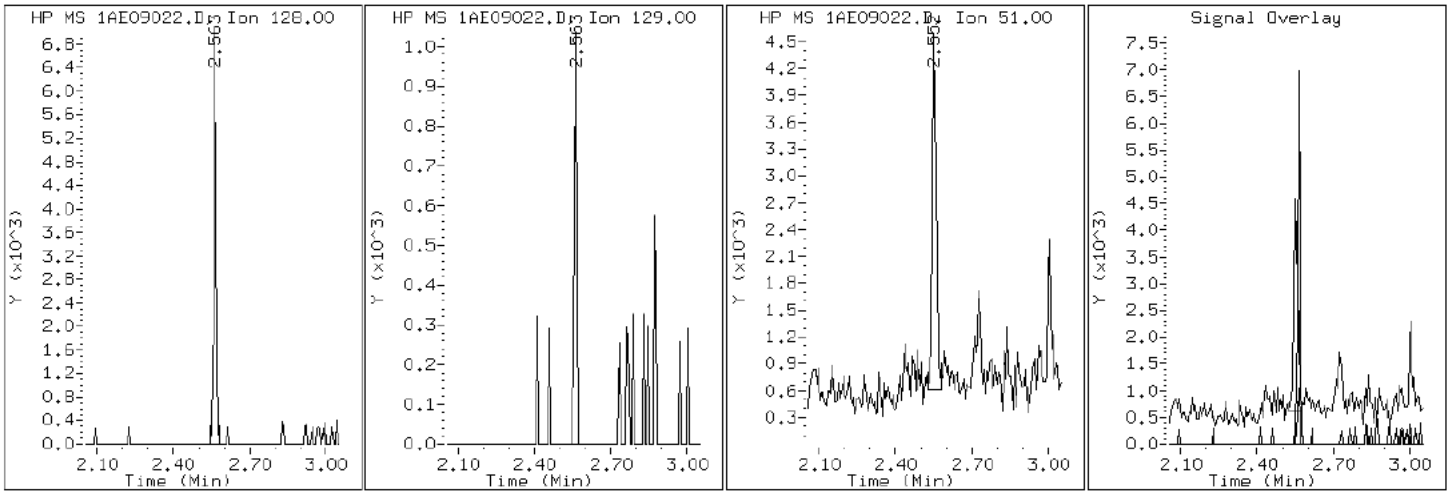
Data File: 1AE09022.D

Date: 09-MAY-2013 15:27

Client ID: CV1165B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-20-a Operator: SCC

2 Naphthalene



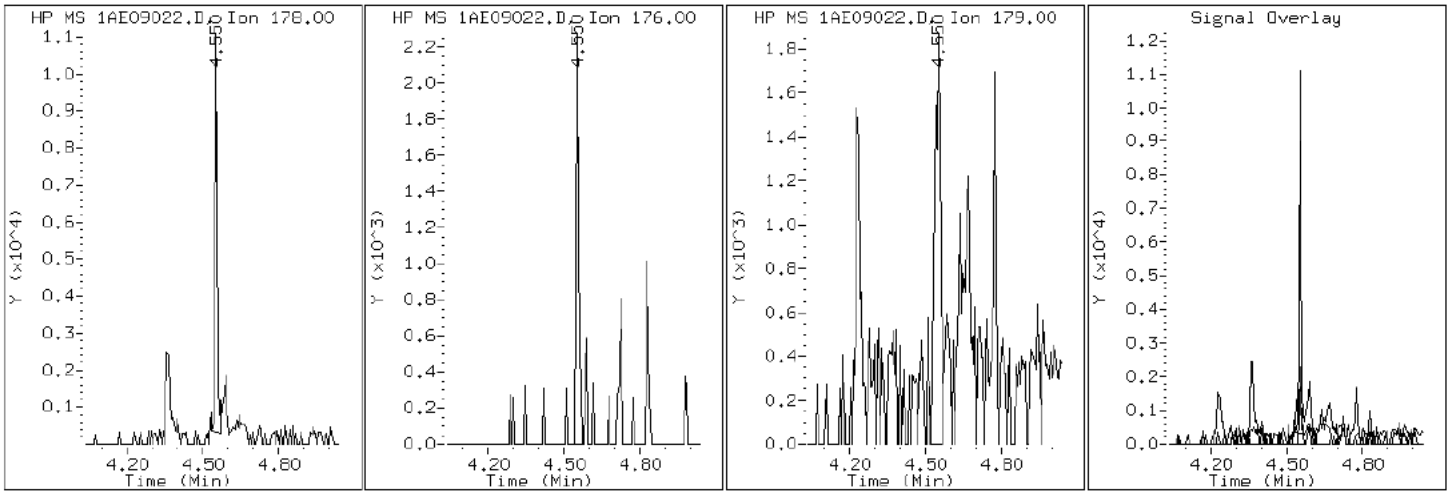
Data File: 1AE09022.D

Date: 09-MAY-2013 15:27

Client ID: CV1165B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-20-a Operator: SCC

11 Phenanthrene



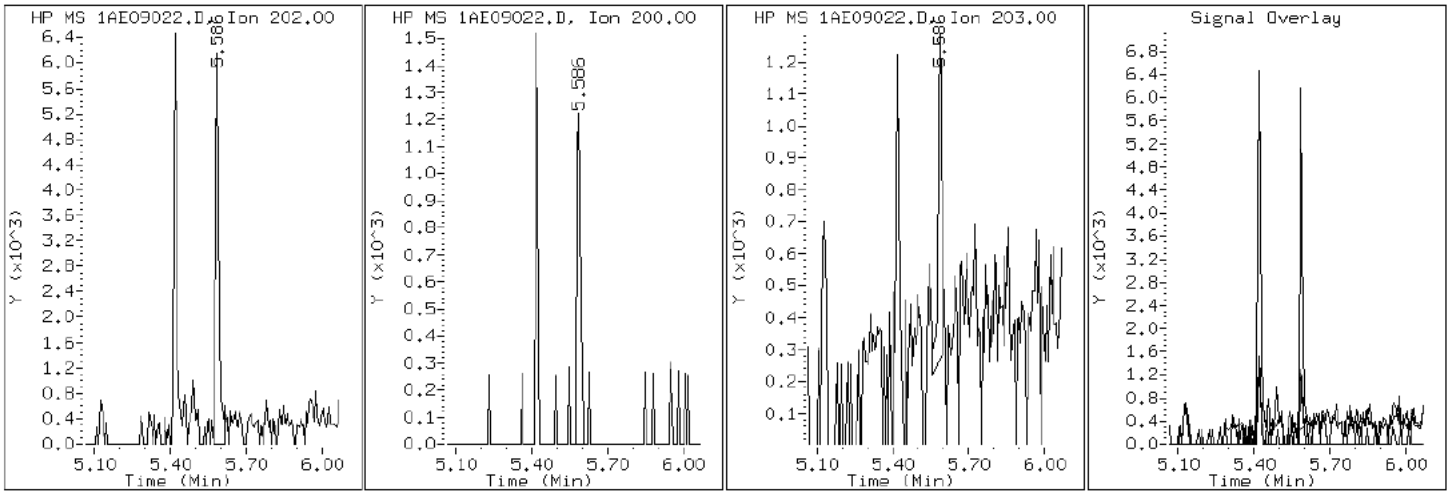
Data File: 1AE09022.D

Date: 09-MAY-2013 15:27

Client ID: CV1165B-CSD Instrument: BSMA5973.i

Sample Info: 680-89985-a-20-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AE09022.D
Inj. Date and Time: 09-MAY-2013 15:27
Instrument ID: BSMA5973.i
Client ID: CV1165B-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/10/2013

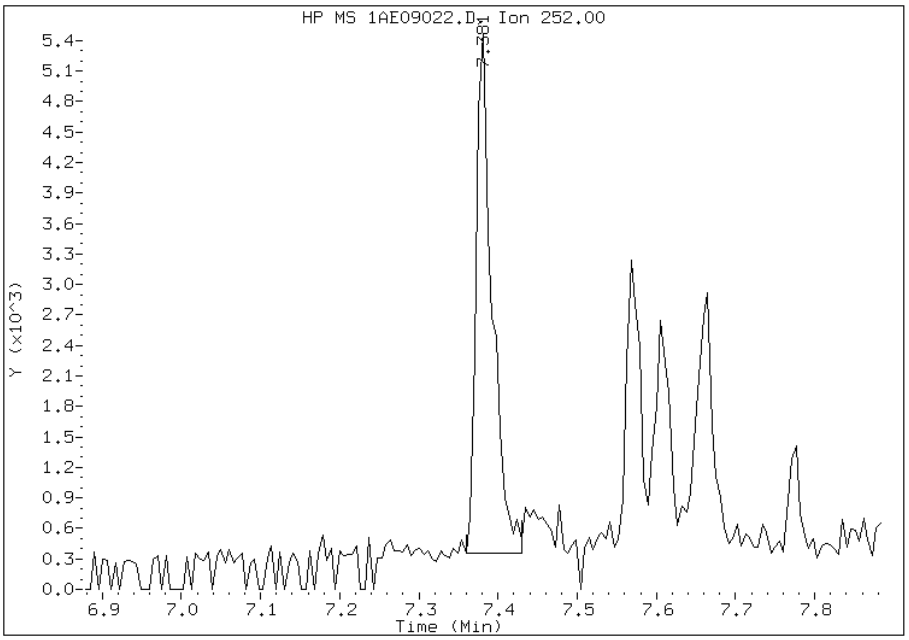
Processing Integration Results

RT: 7.38

Response: 7106

Amount: 0

Conc: 128



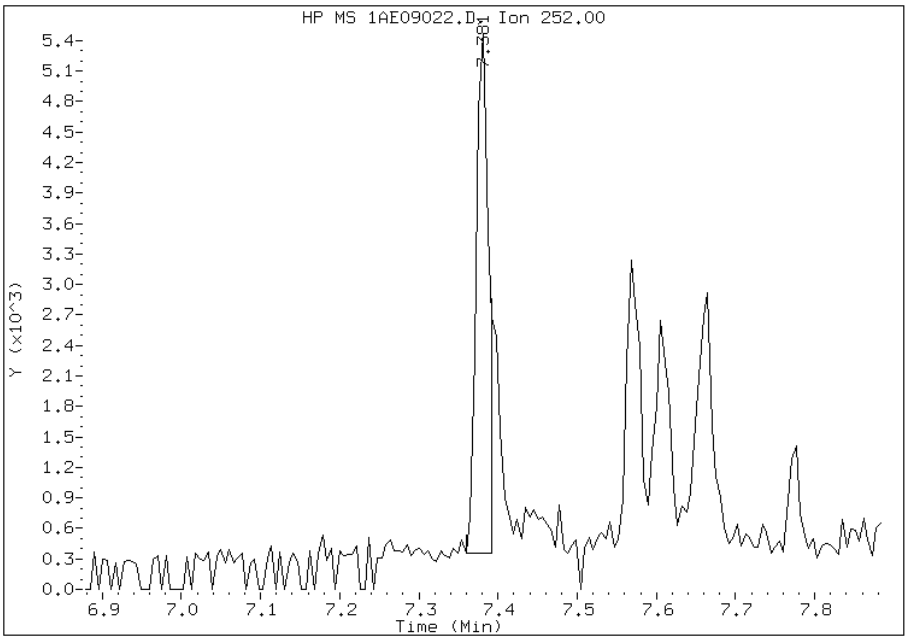
Manual Integration Results

RT: 7.38

Response: 5528

Amount: 0

Conc: 100



Manually Integrated By: cantins
Modification Date: 10-May-2013 11:06
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE09022.D
Inj. Date and Time: 09-MAY-2013 15:27
Instrument ID: BSMA5973.i
Client ID: CV1165B-CSD
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/10/2013

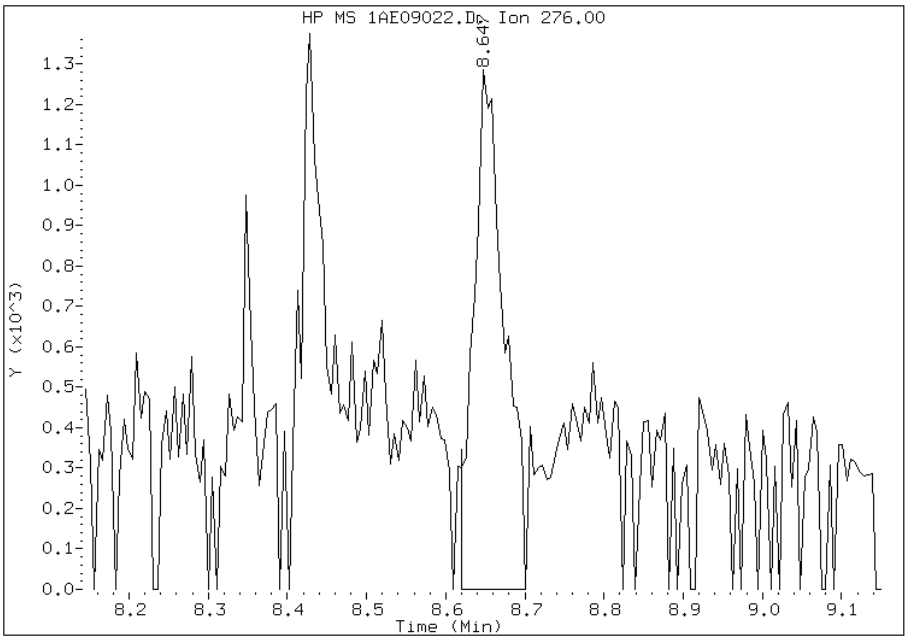
Processing Integration Results

RT: 8.65

Response: 3425

Amount: 0

Conc: 67



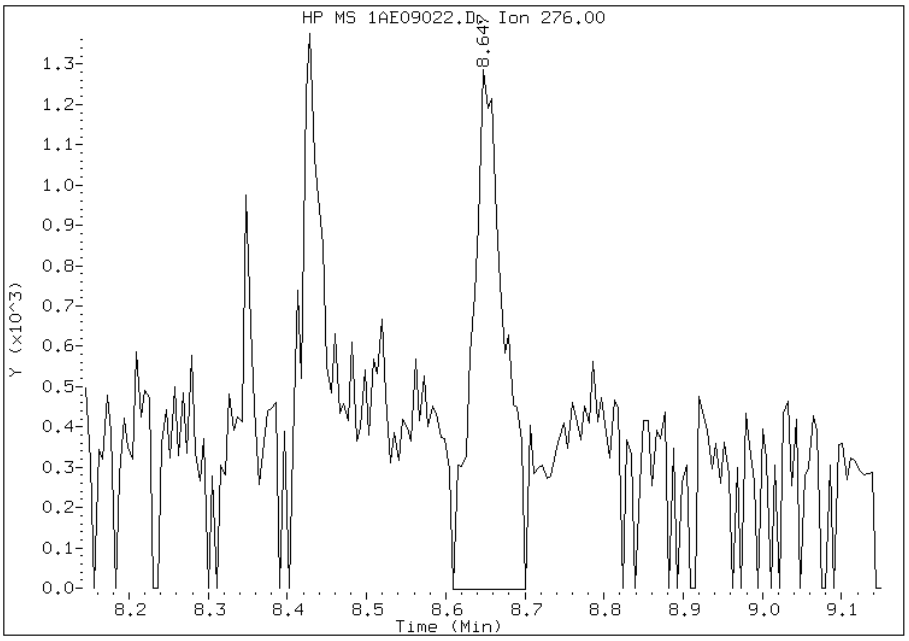
Manual Integration Results

RT: 8.65

Response: 3540

Amount: 0

Conc: 69



Manually Integrated By: cantins
Modification Date: 10-May-2013 11:07
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE09022.D
Inj. Date and Time: 09-MAY-2013 15:27
Instrument ID: BSMA5973.i
Client ID: CV1165B-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/10/2013

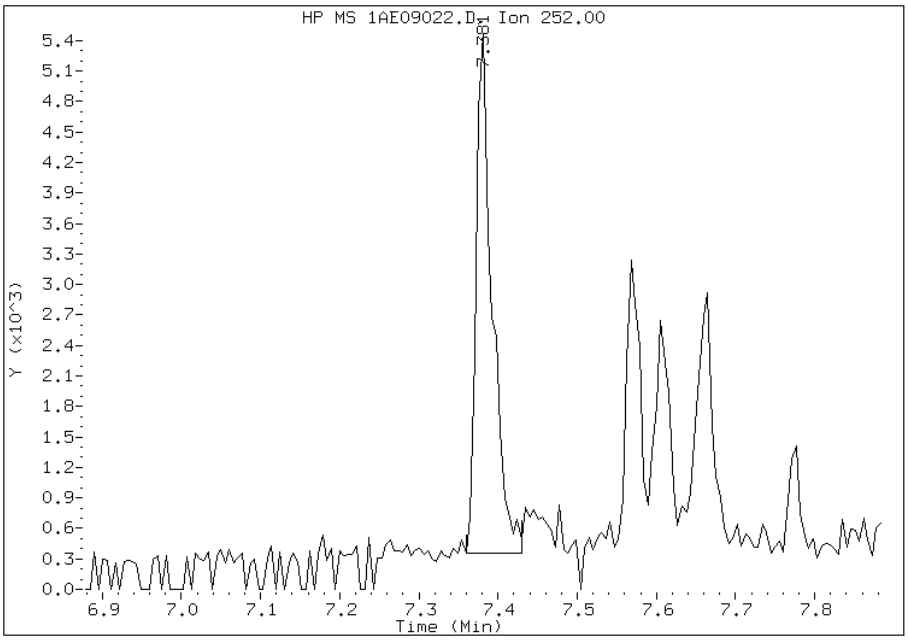
Processing Integration Results

RT: 7.38

Response: 7106

Amount: 0

Conc: 103



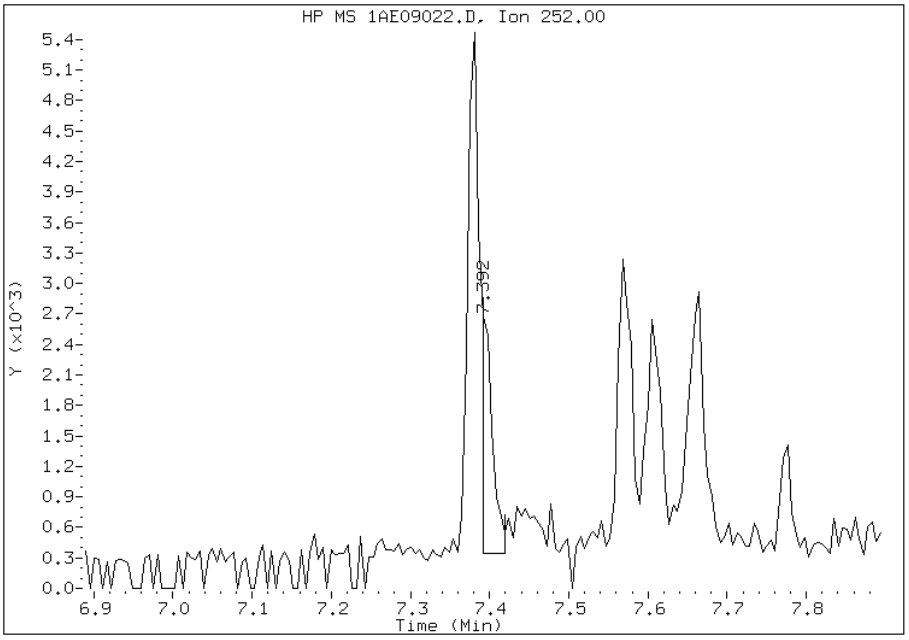
Manual Integration Results

RT: 7.39

Response: 2207

Amount: 0

Conc: 32



Manually Integrated By: cantins
Modification Date: 10-May-2013 11:07
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE09022.D
Inj. Date and Time: 09-MAY-2013 15:27
Instrument ID: BSMA5973.i
Client ID: CV1165B-CSD
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/10/2013

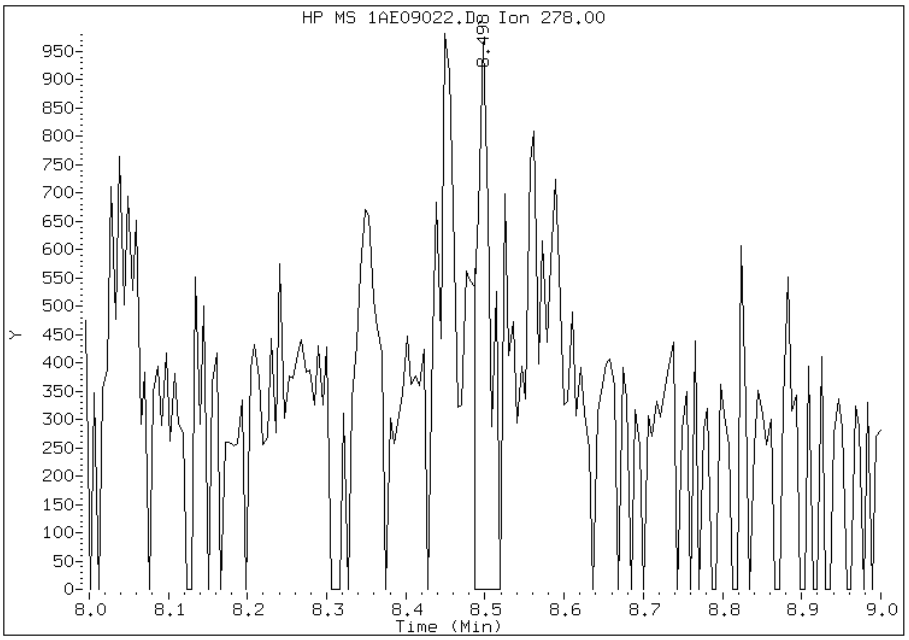
Processing Integration Results

RT: 8.50

Response: 1171

Amount: 0

Conc: 24



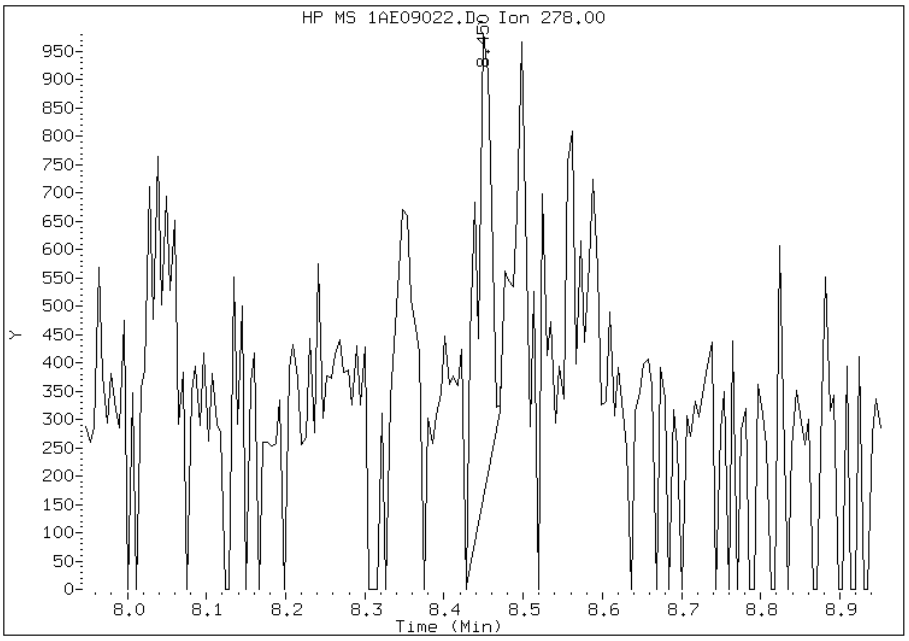
Manual Integration Results

RT: 8.45

Response: 1068

Amount: 0

Conc: 22



Manually Integrated By: cantins
Modification Date: 10-May-2013 11:09
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1AE09022.D
Inj. Date and Time: 09-MAY-2013 15:27
Instrument ID: BSMA5973.i
Client ID: CV1165B-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/10/2013

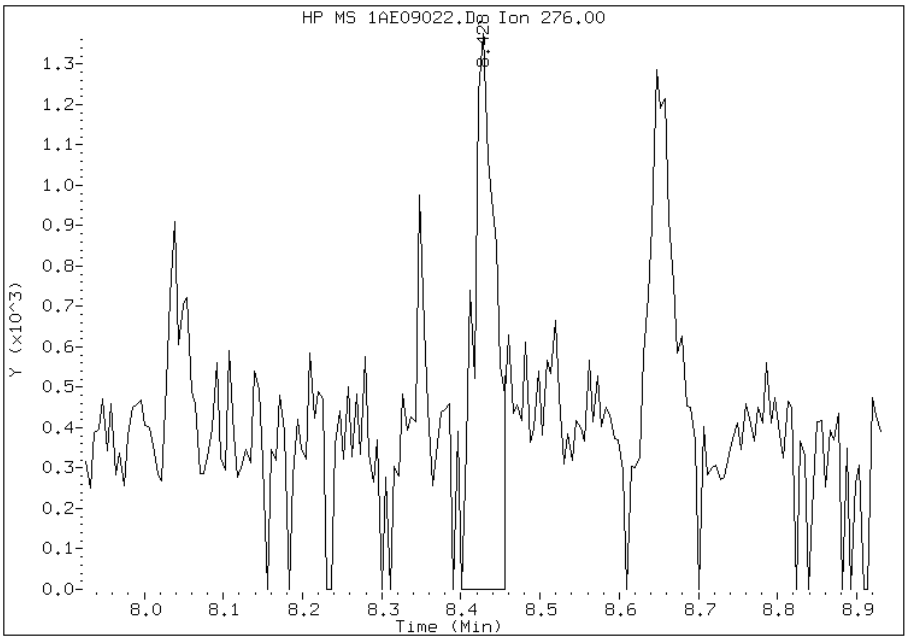
Processing Integration Results

RT: 8.43

Response: 2609

Amount: 0

Conc: 55



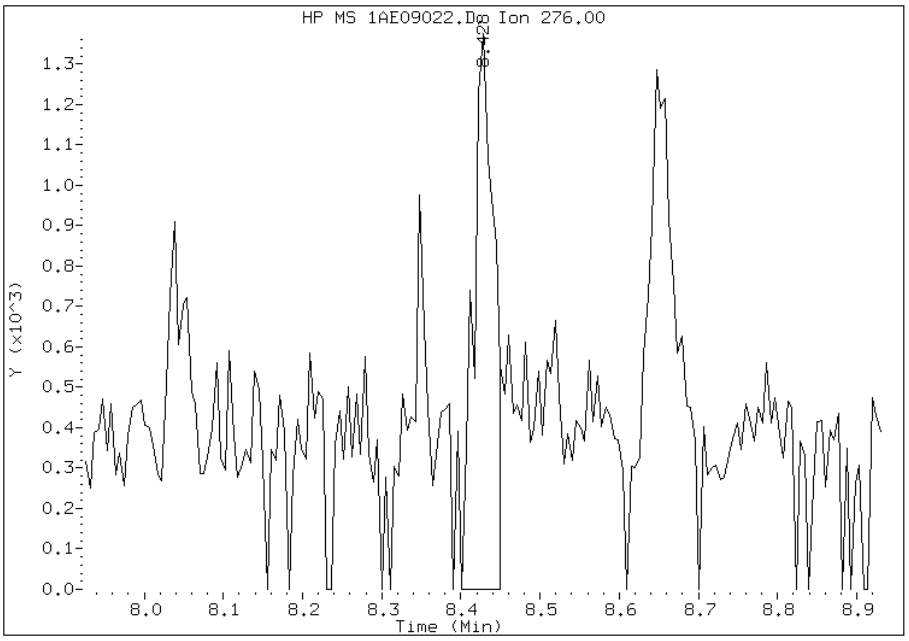
Manual Integration Results

RT: 8.43

Response: 2454

Amount: 0

Conc: 51



Manually Integrated By: cantins
Modification Date: 10-May-2013 11:10
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-89985-1 Analy Batch No.: 136892

SDG No.: 68089985-1

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.: 680-89985-1 Analy Batch No.: 136892

SDG No.: 68089985-1

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.: 680-89985-1 Analy Batch No.: 136892

SDG No.: 68089985-1

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	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	11316 1510520	61217 2445644	320082	595222	1158716	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	6318 827941	37078 1310841	193264	341254	669822	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	7562 894050	41731 1398370	216239	376560	706538	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	12402 1556064	68056 2504346	366926	648059	1265667	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	7399 810394	35926 1267057	188346	324917	634267	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	7912 1002855	42211 1599840	226787	405299	807968	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	12552 1299367	56771 2139281	300982	533287	1040972	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	11827 1371502	59817 2186210	320832	579771	1112517	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	10825 1364561	55869 2311786	309273	544612	1091227	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	11742 1591115	61813 2681447	362121	653973	1286350	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	12588 1716784	69806 2760027	387490	693219	1367080	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	13801 1427778	53450 2561817	302918	543586	1149947	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	13859 1401601	63425 2209729	322491	574179	1097962	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	9306 1402018	56273 2501570	315397	597877	1243307	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	14625 1618107	64750 2519945	394484	634191	1166129	0.200 30.0	1.00 50.0	5.00	10.0	20.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-89985-1 Analy Batch No.: 136892

SDG No.: 68089985-1

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	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[a]pyrene	PRY	Ave	9497 1470103	51202 2426657	334183	604286	1187145	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	8428 1470861	43801 2703546	290809	557142	1156108	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	7510 1321140	47341 2207196	292736	529334	1028761	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	10640 1524482	58526 2645132	339141	616524	1185137	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	6384 747046	32378 1190919	177967	310562	600782	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:
Ave = Average ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\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

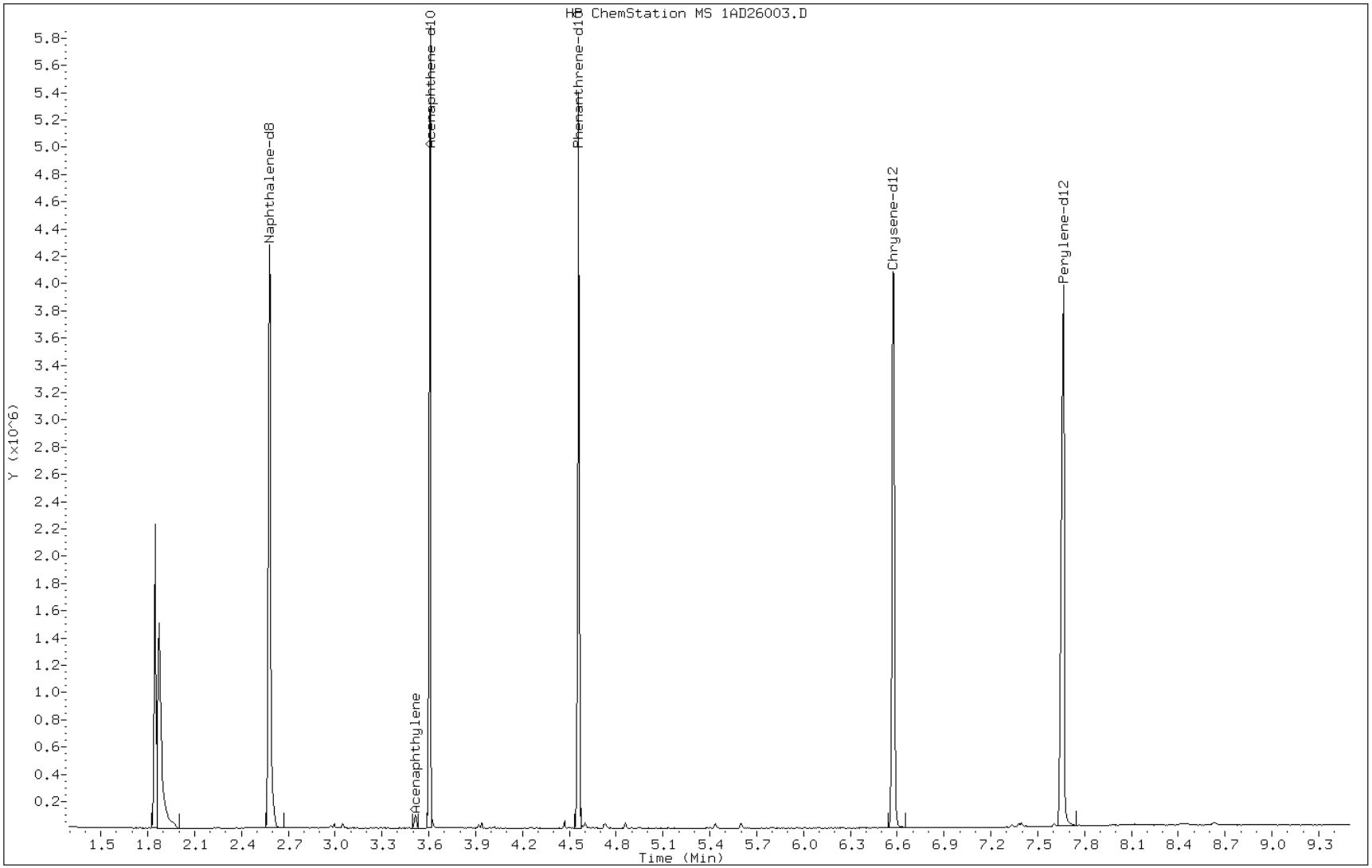
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

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

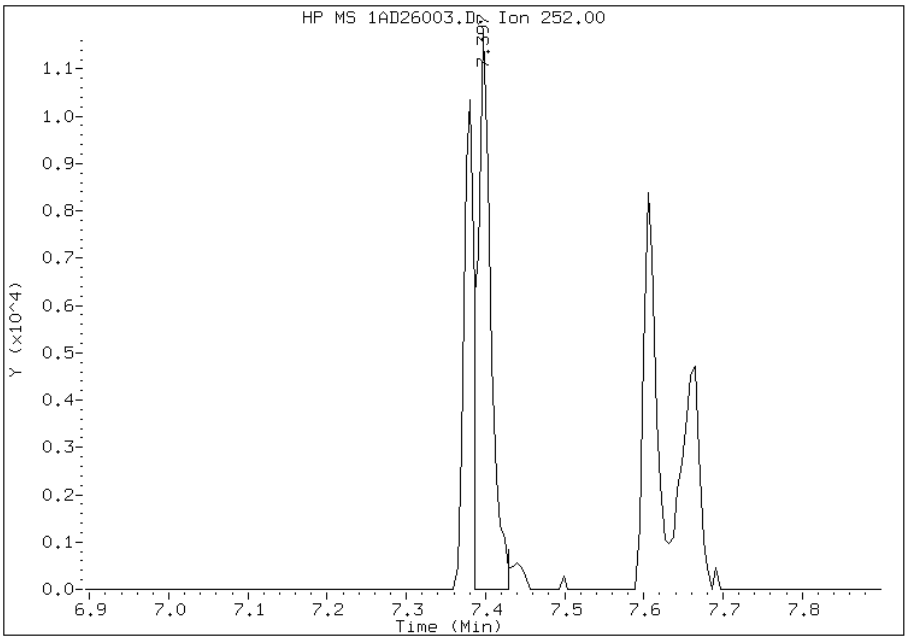
Processing Integration Results

RT: 7.40

Response: 14089

Amount: 0

Conc: 0



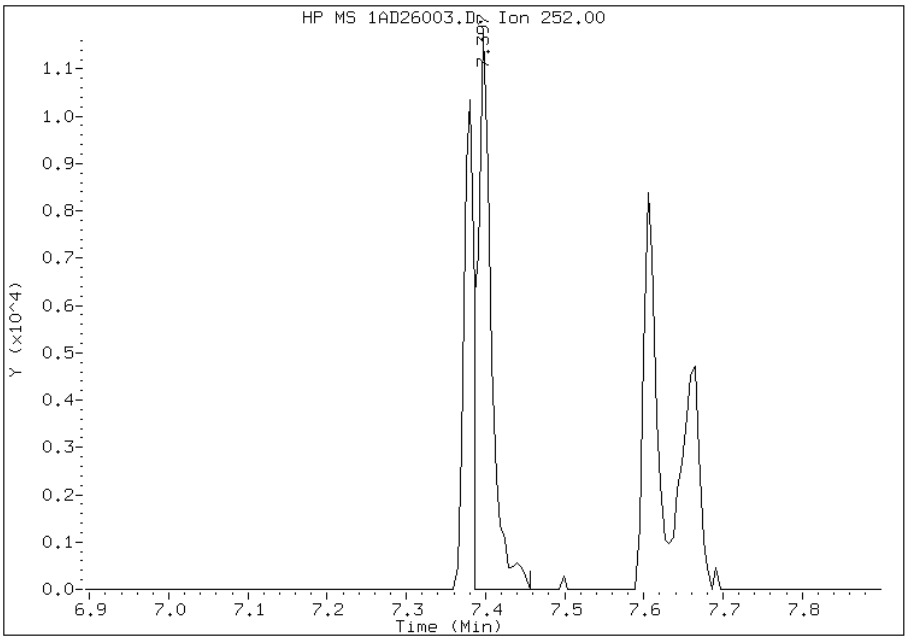
Manual Integration Results

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

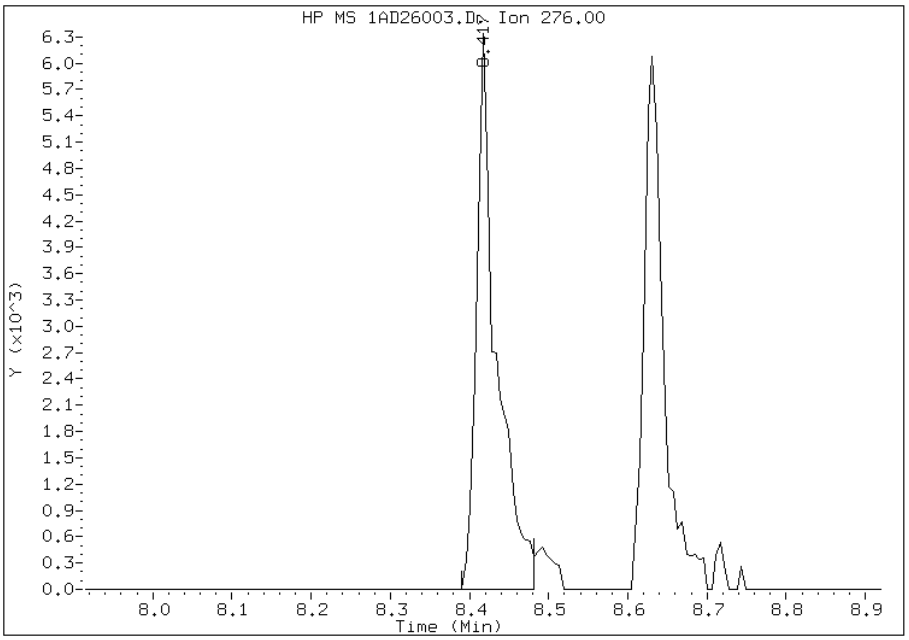
Processing Integration Results

RT: 8.42

Response: 10930

Amount: 0

Conc: 0



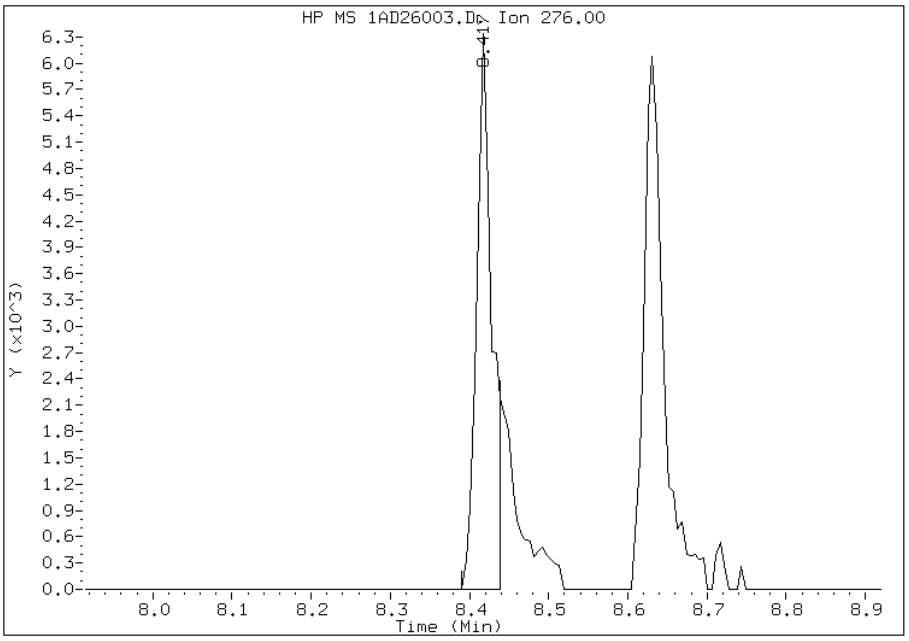
Manual Integration Results

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

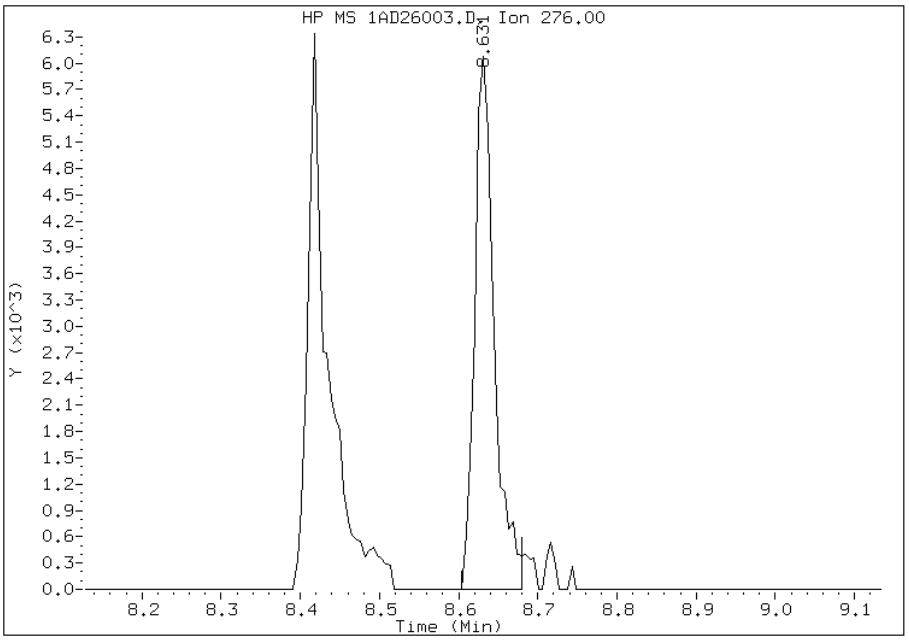
Processing Integration Results

RT: 8.63

Response: 10297

Amount: 0

Conc: 0



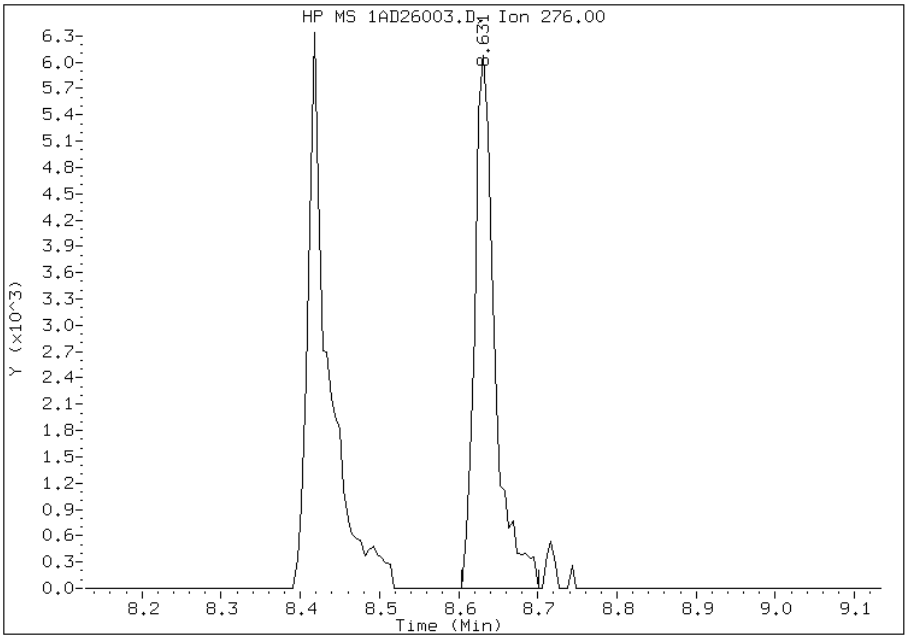
Manual Integration Results

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

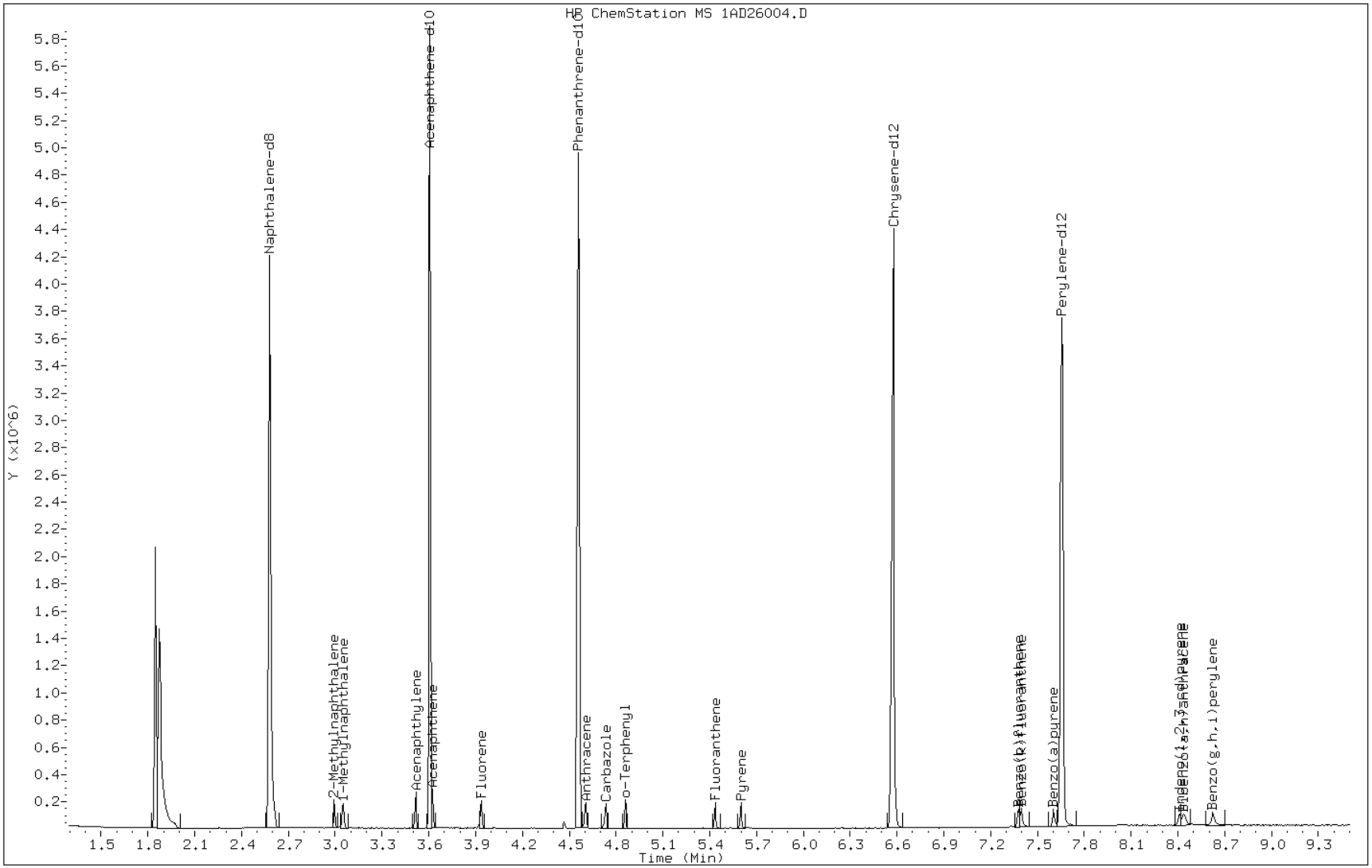
M - Compound response manually integrated.

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

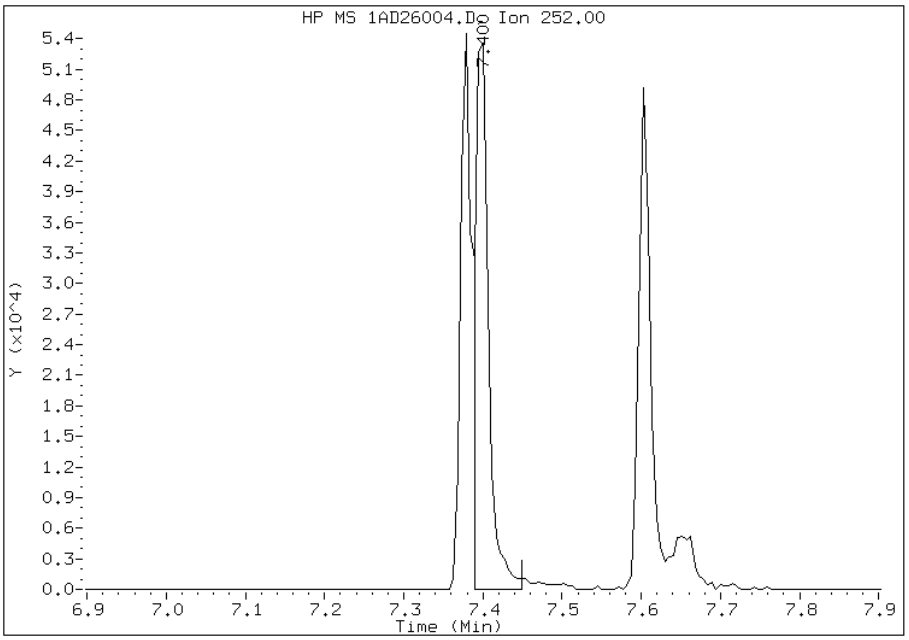
Processing Integration Results

RT: 7.40

Response: 62638

Amount: 1

Conc: 1



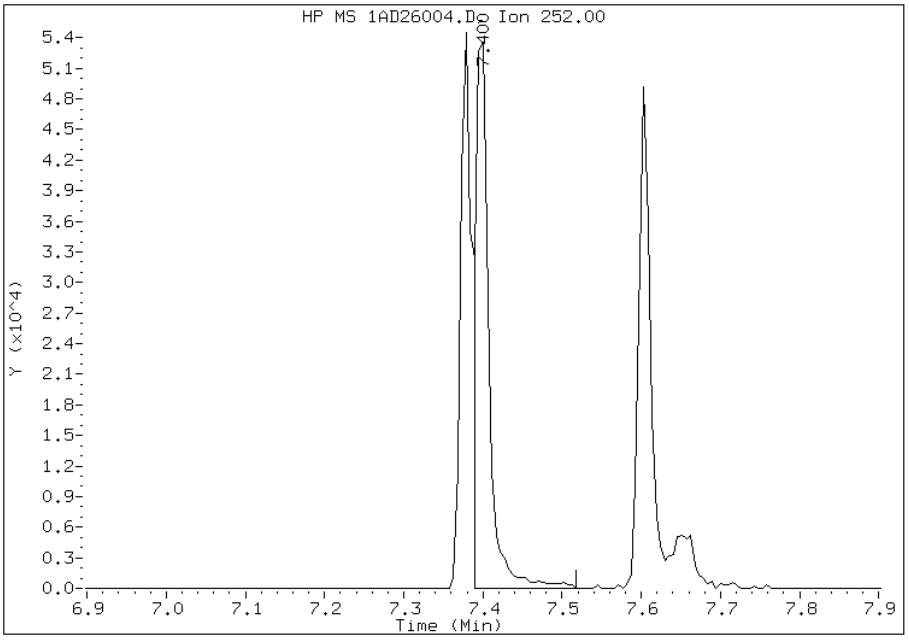
Manual Integration Results

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

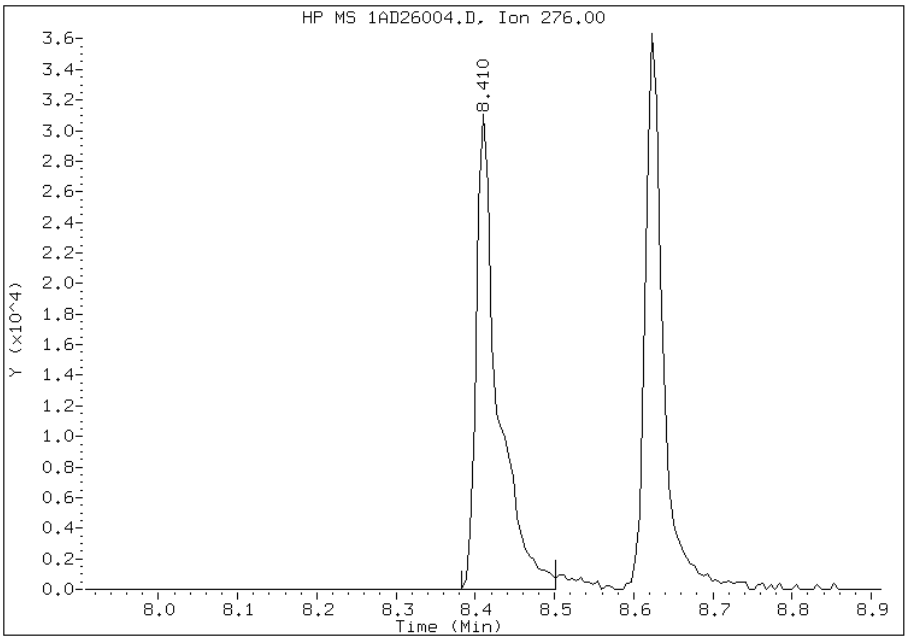
Processing Integration Results

RT: 8.41

Response: 58698

Amount: 1

Conc: 1



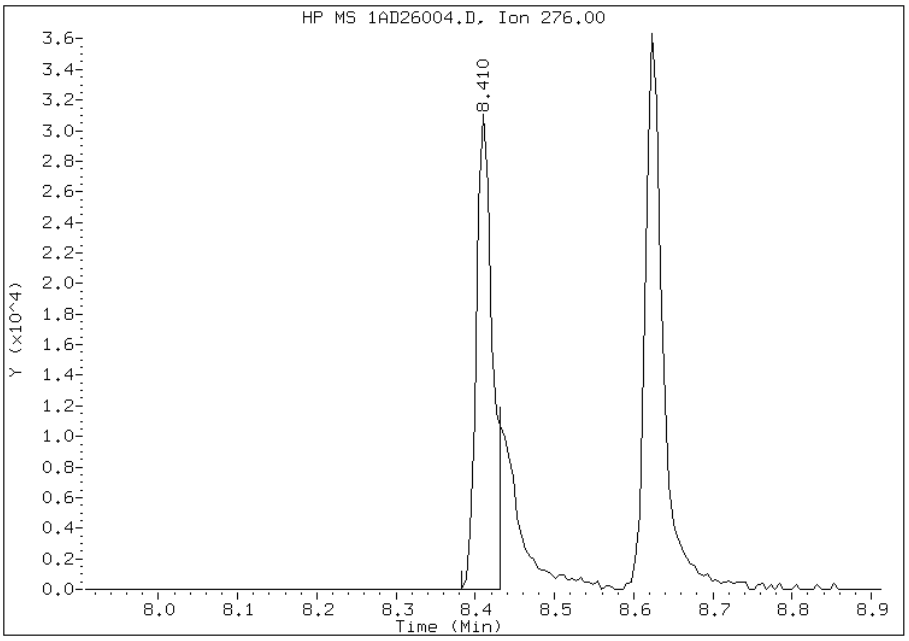
Manual Integration Results

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

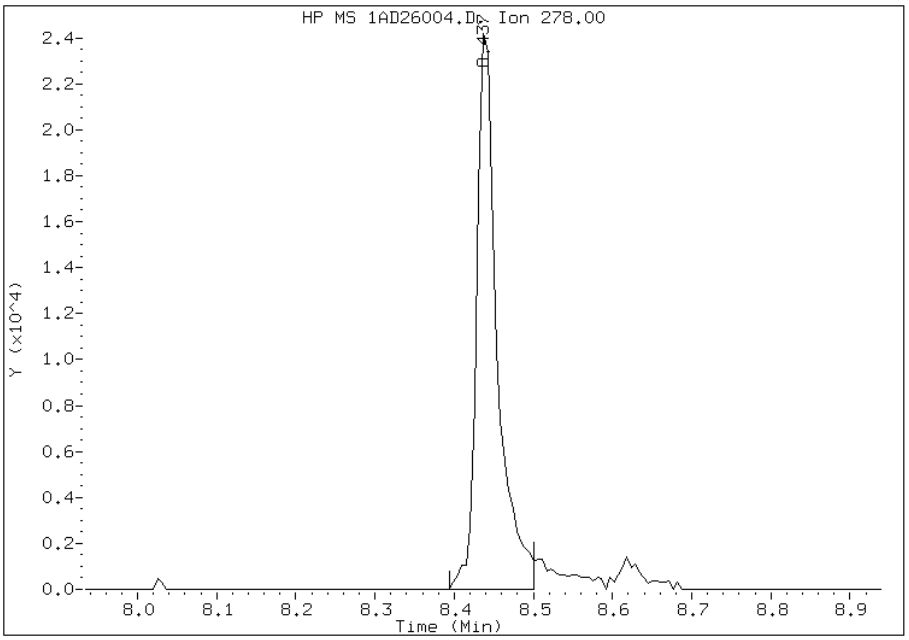
Processing Integration Results

RT: 8.44

Response: 43759

Amount: 1

Conc: 1



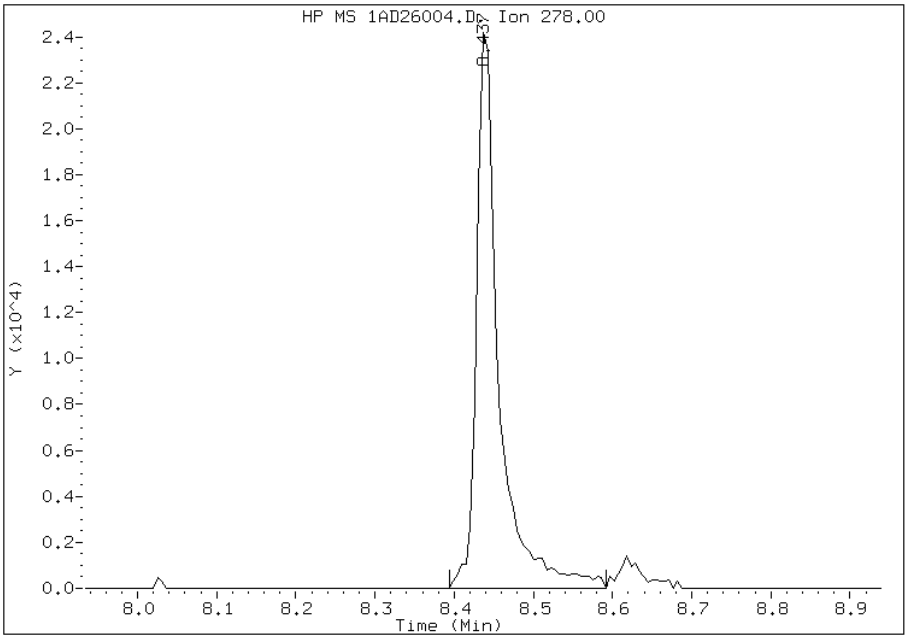
Manual Integration Results

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

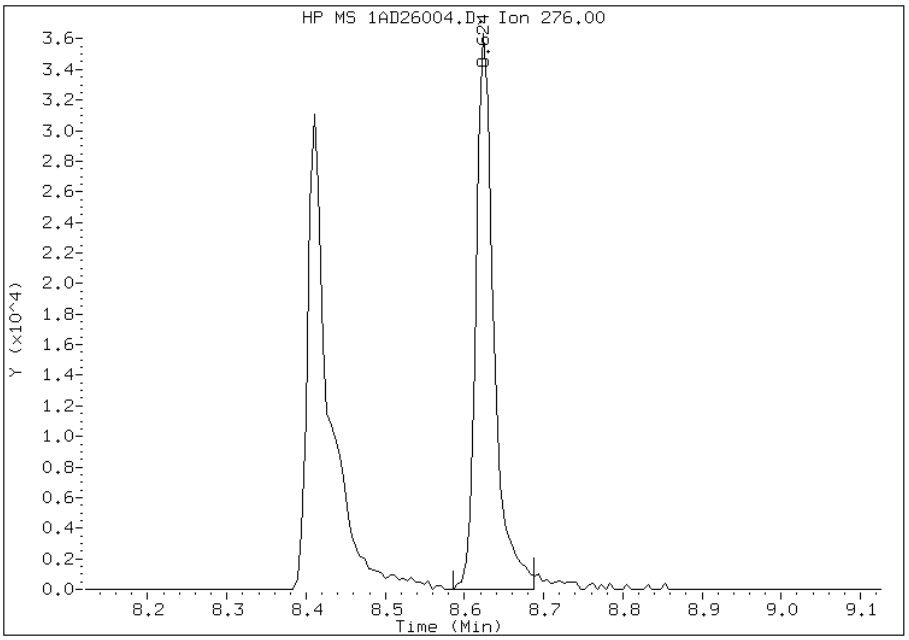
Processing Integration Results

RT: 8.62

Response: 56611

Amount: 1

Conc: 1



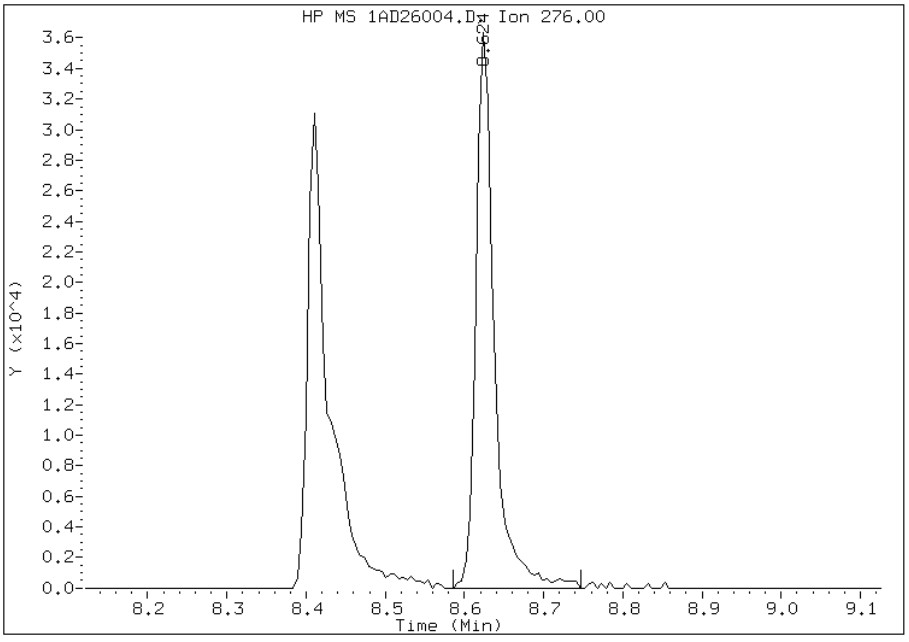
Manual Integration Results

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

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

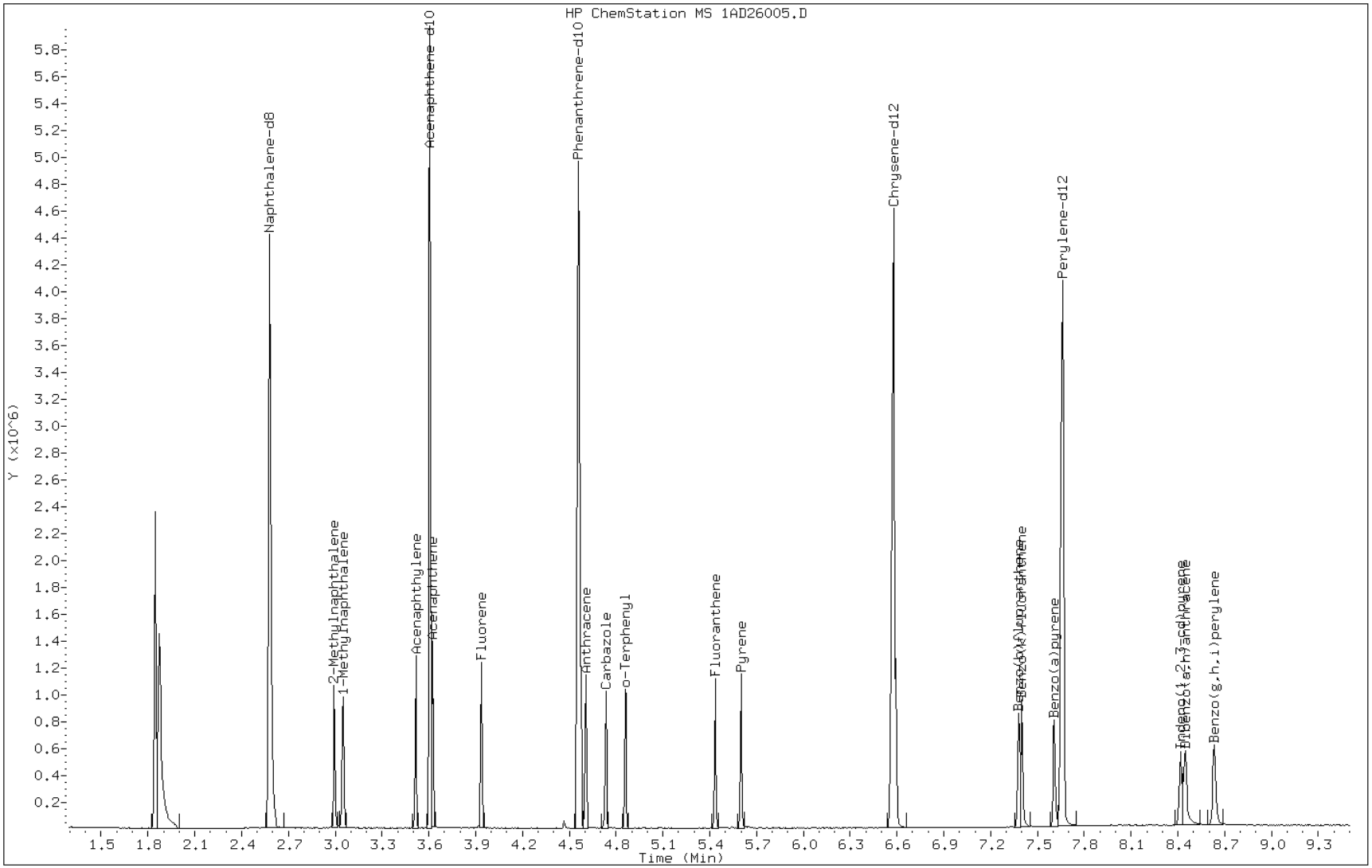
M - Compound response manually integrated.

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

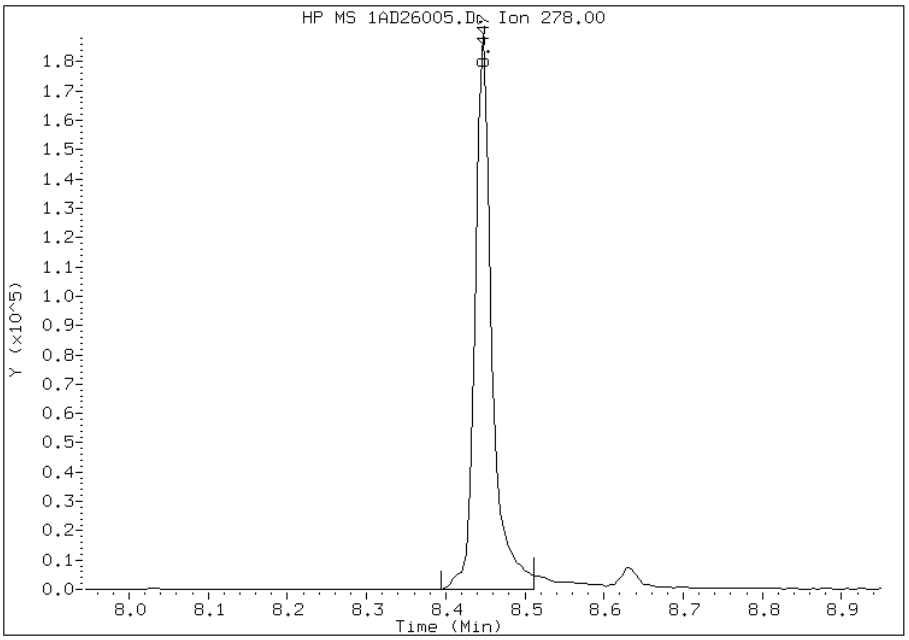
Processing Integration Results

RT: 8.45

Response: 277866

Amount: 6

Conc: 6



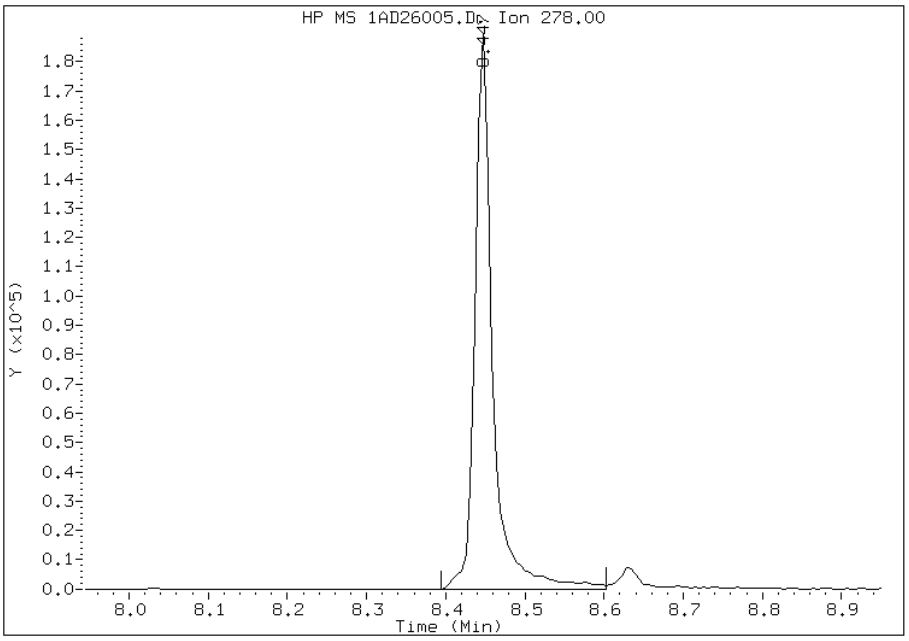
Manual Integration Results

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

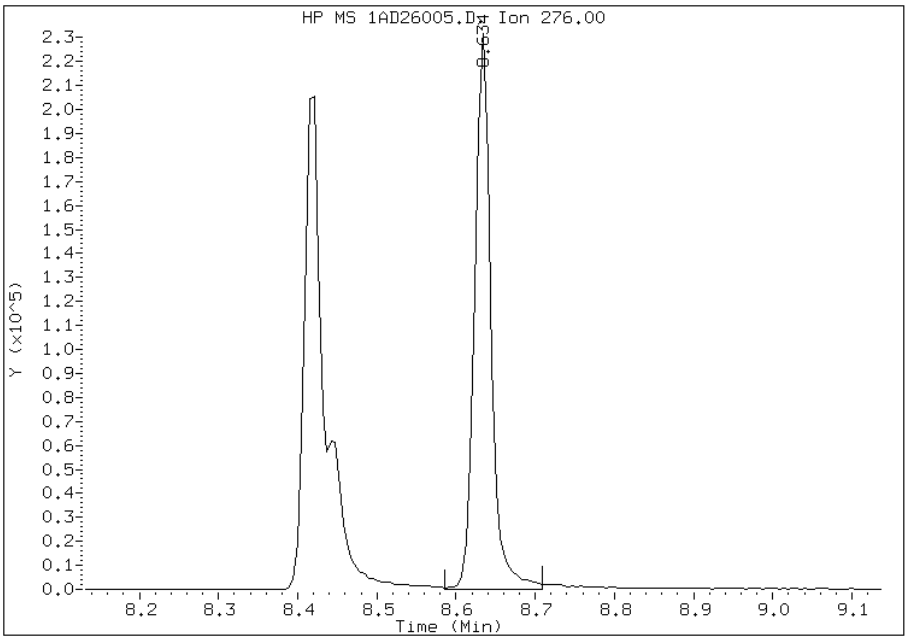
Processing Integration Results

RT: 8.63

Response: 328220

Amount: 5

Conc: 5



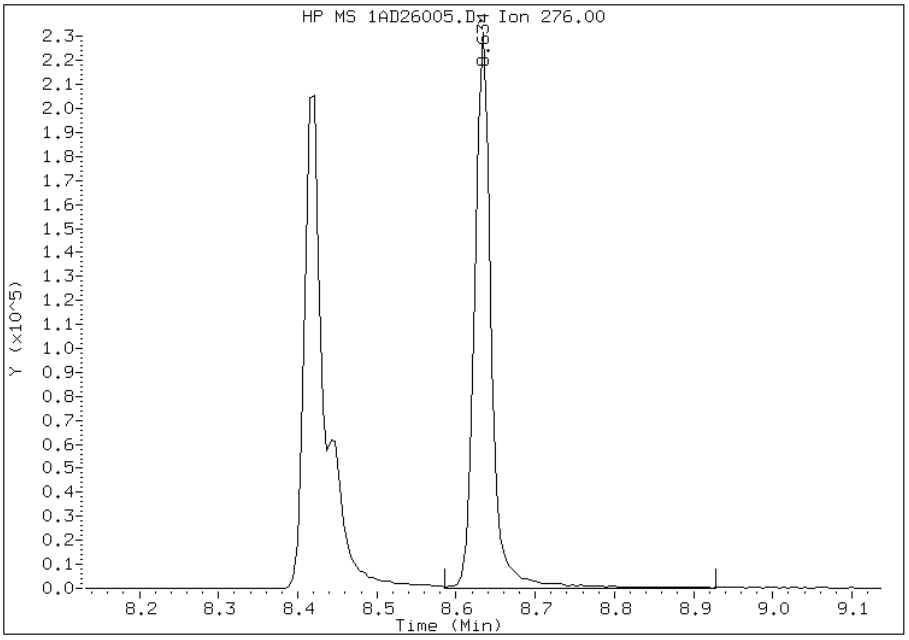
Manual Integration Results

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

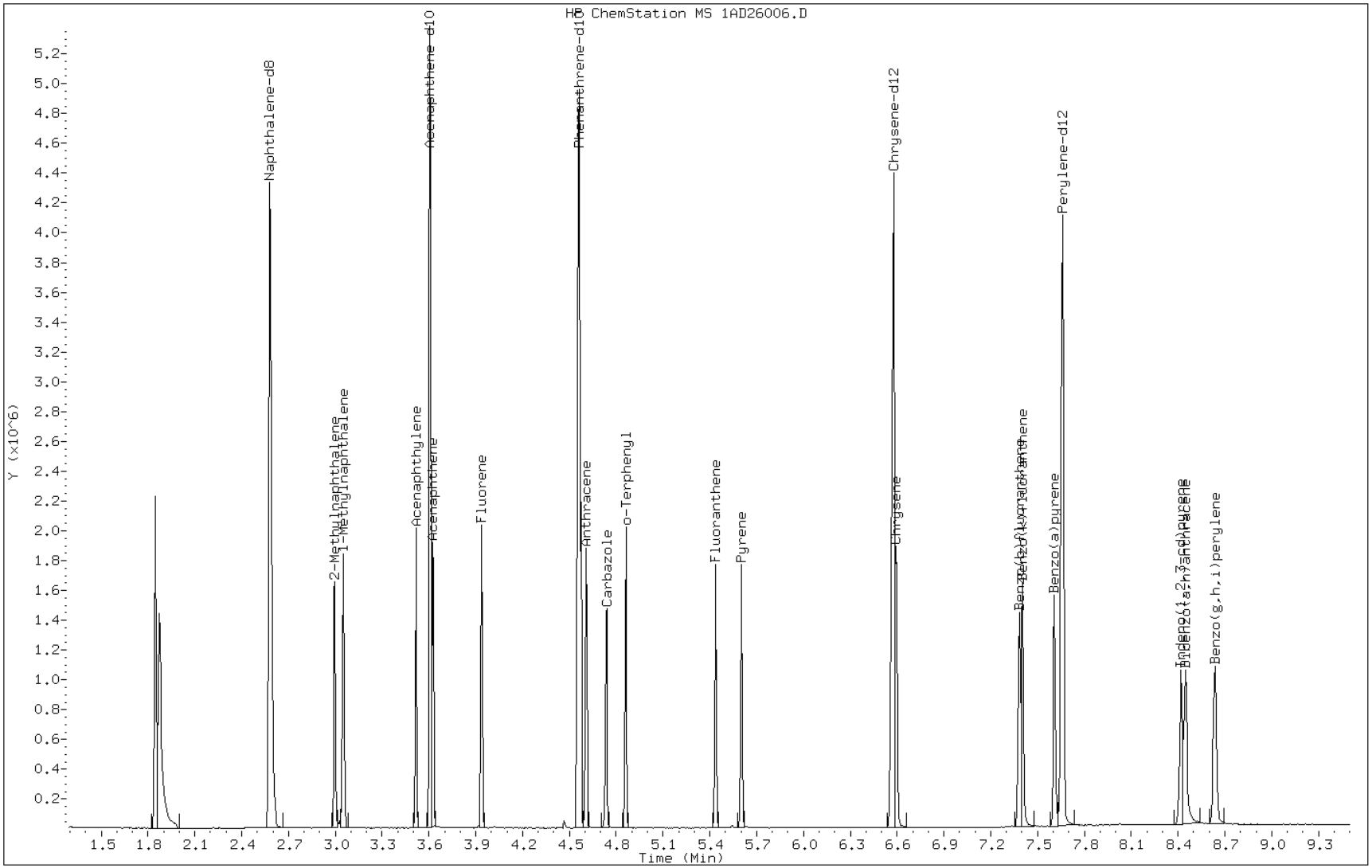
M - Compound response manually integrated.

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

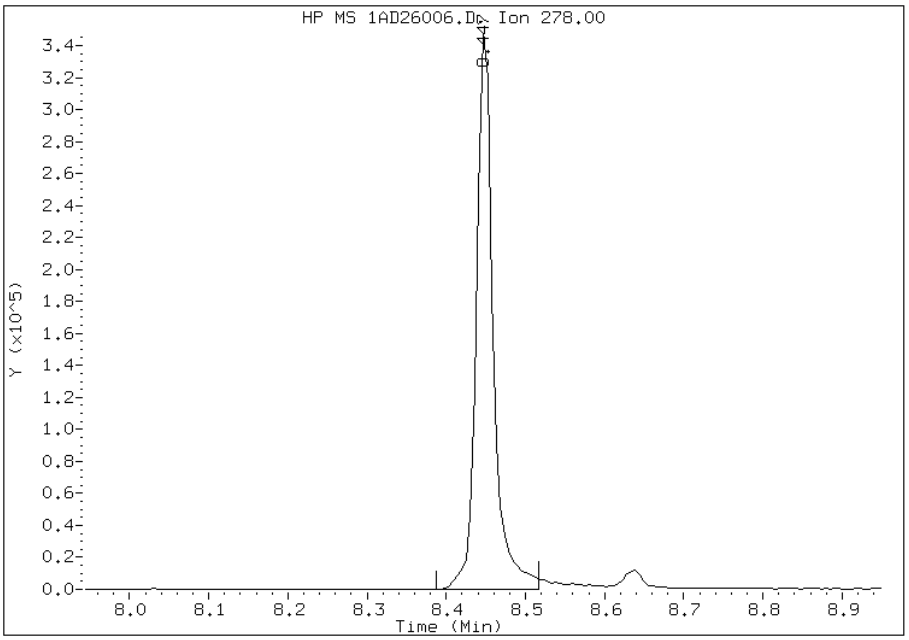
Processing Integration Results

RT: 8.45

Response: 511528

Amount: 11

Conc: 11



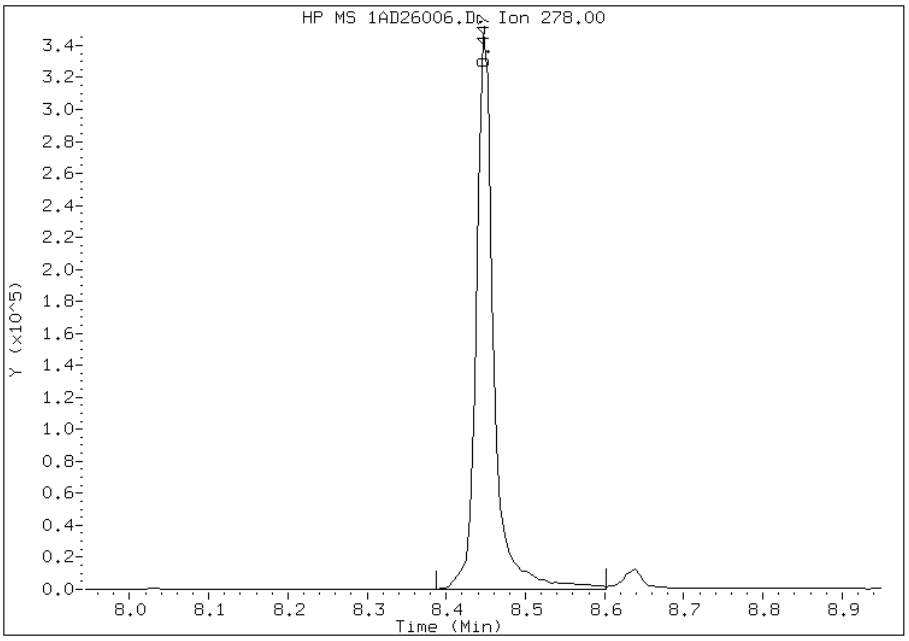
Manual Integration Results

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

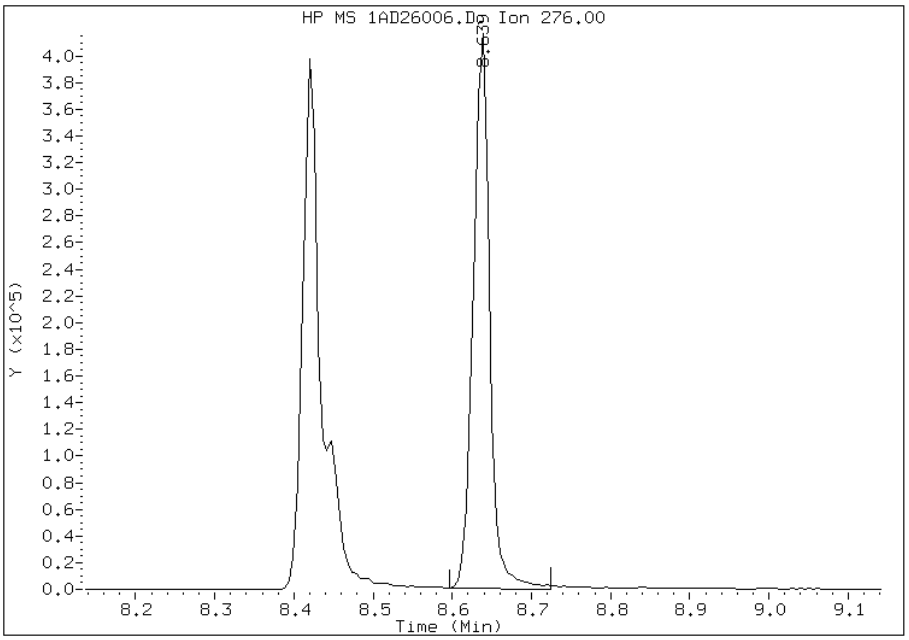
Processing Integration Results

RT: 8.64

Response: 592263

Amount: 10

Conc: 10



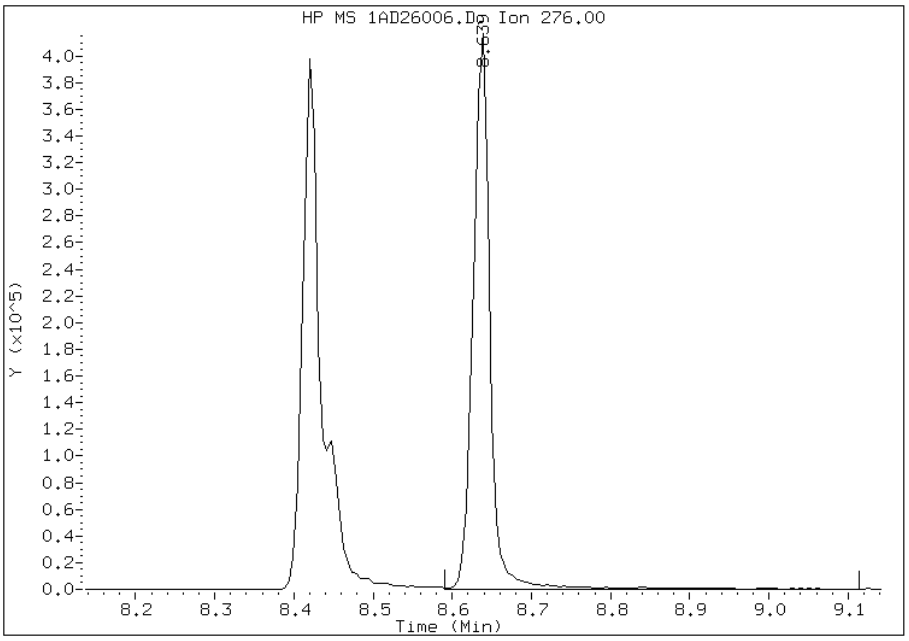
Manual Integration Results

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

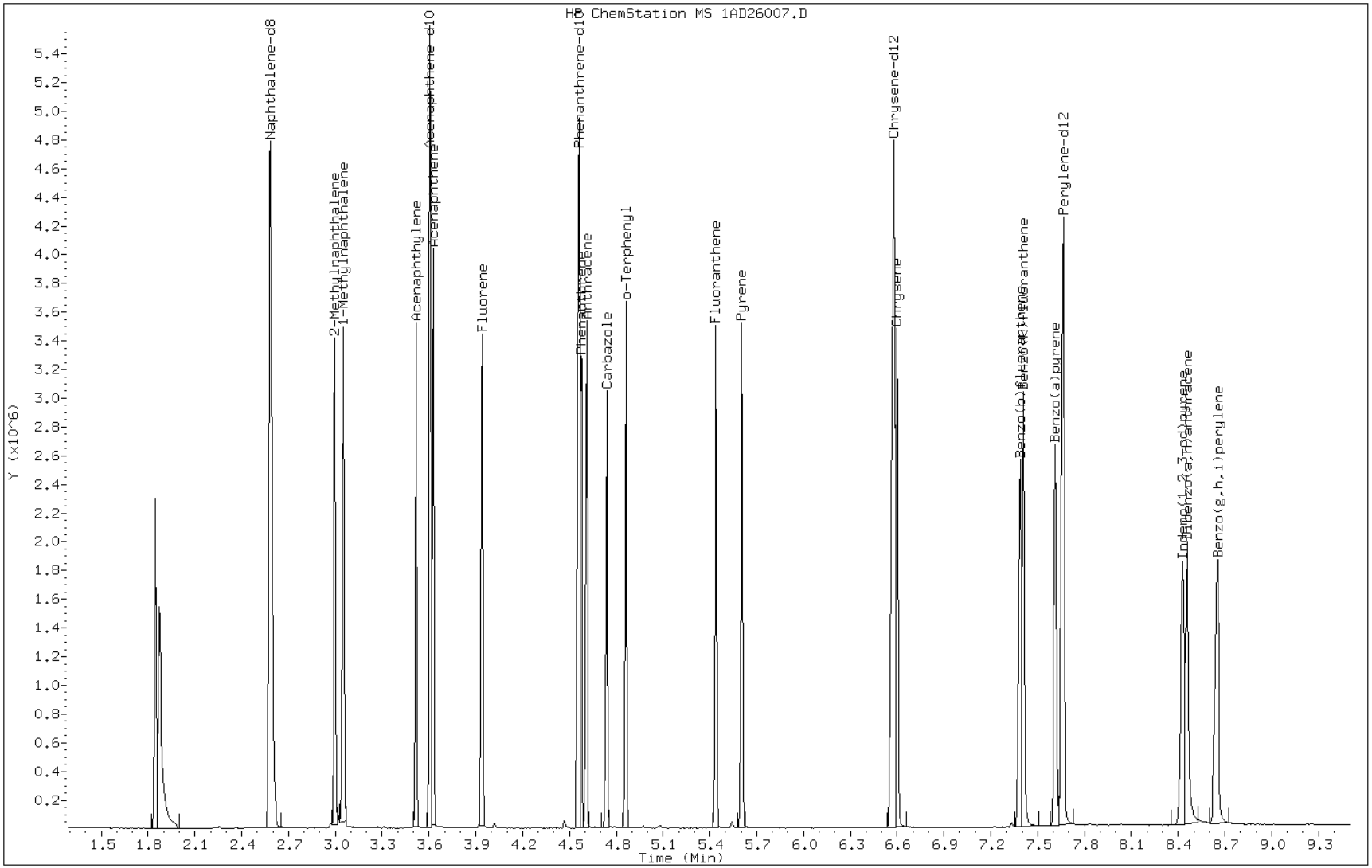
M - Compound response manually integrated.

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

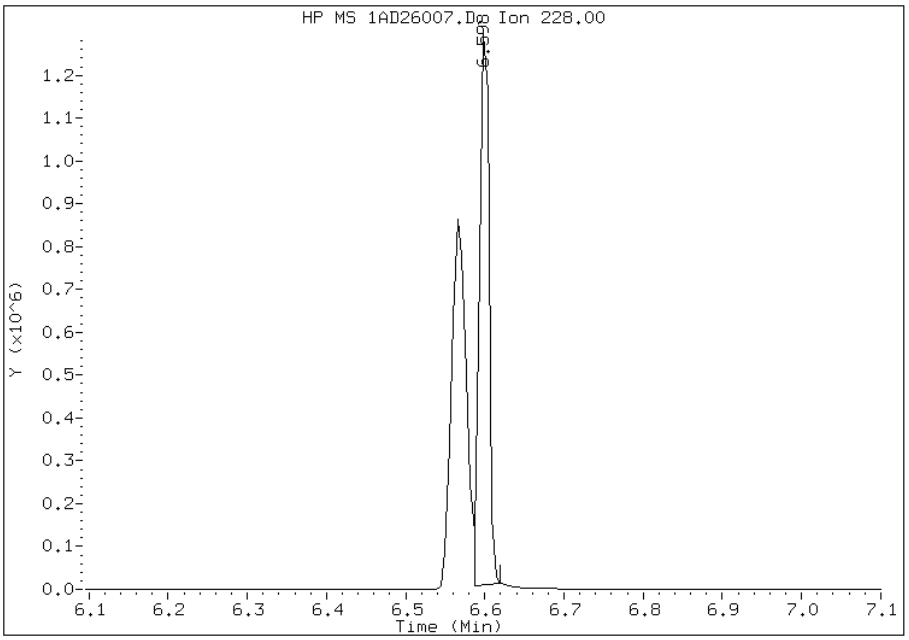
Processing Integration Results

RT: 6.60

Response: 1056771

Amount: 17

Conc: 17



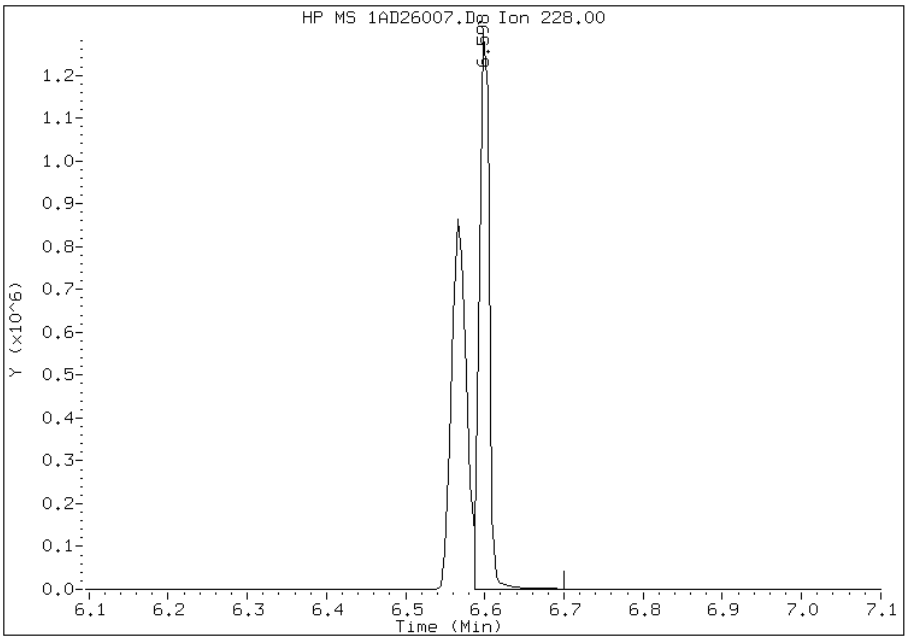
Manual Integration Results

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

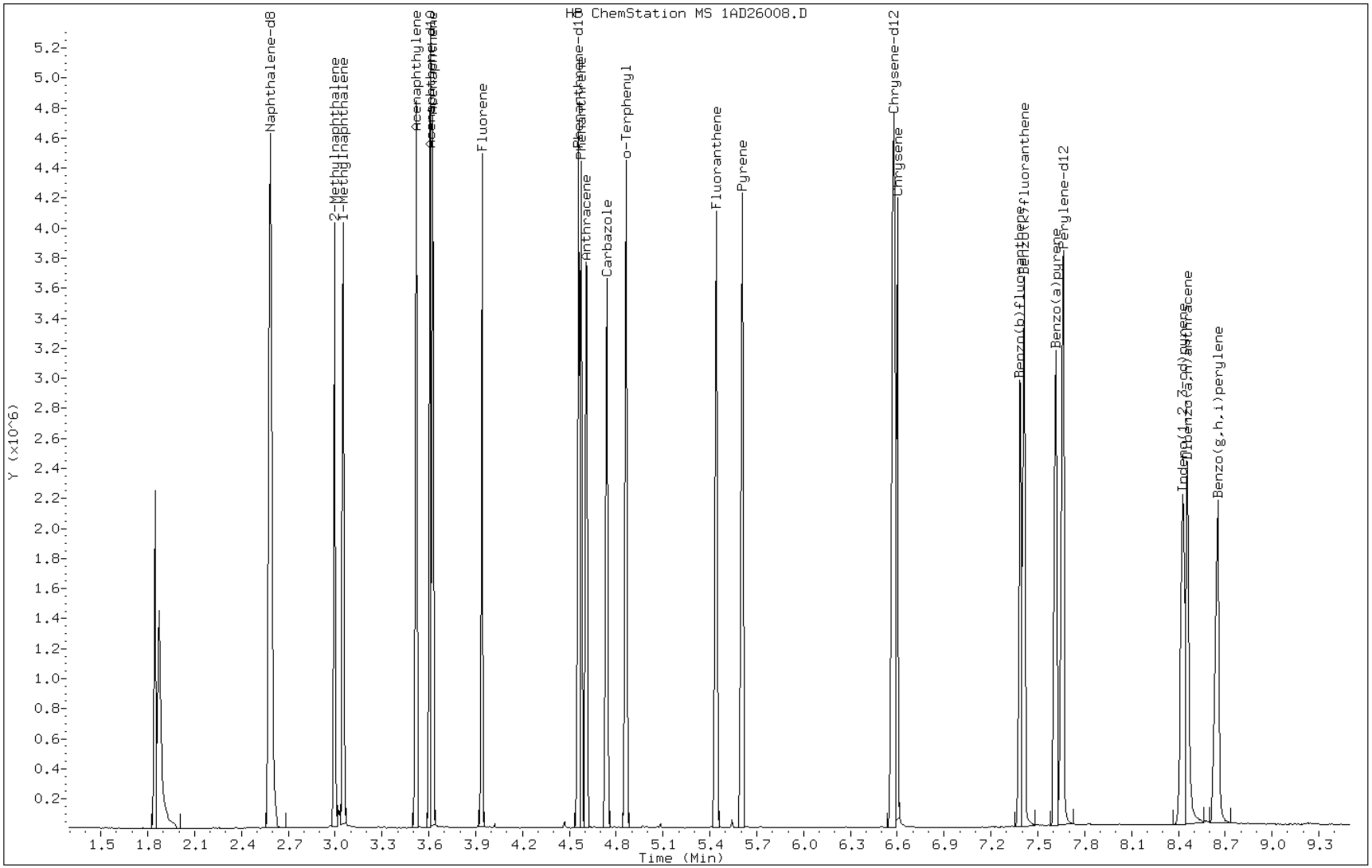
M - Compound response manually integrated.

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

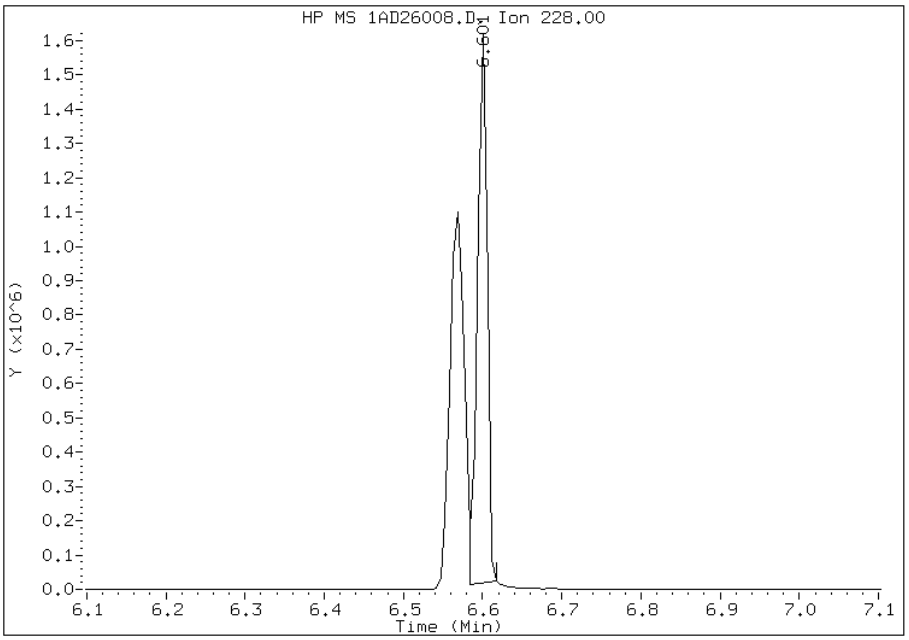
Processing Integration Results

RT: 6.60

Response: 1330257

Amount: 26

Conc: 26



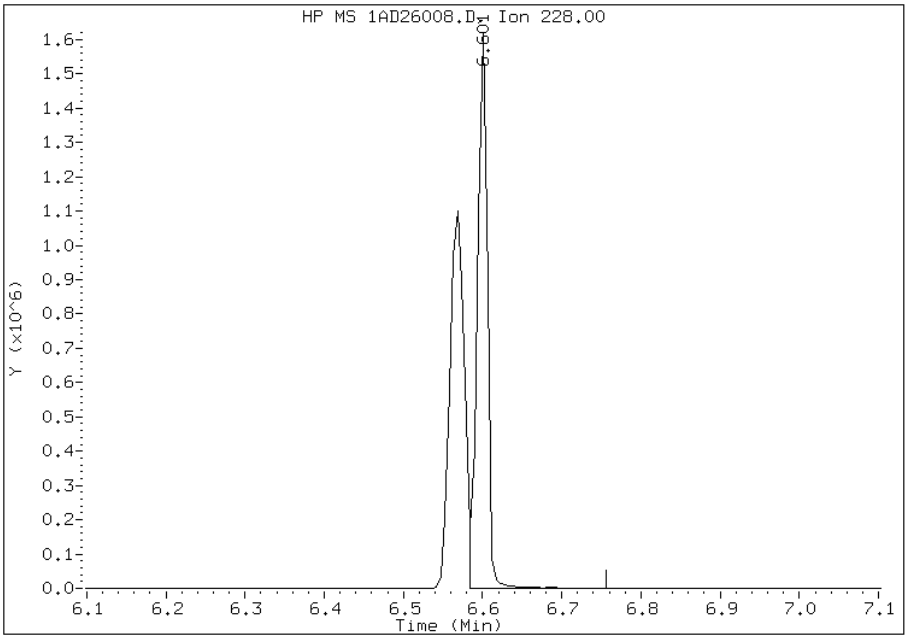
Manual Integration Results

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

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

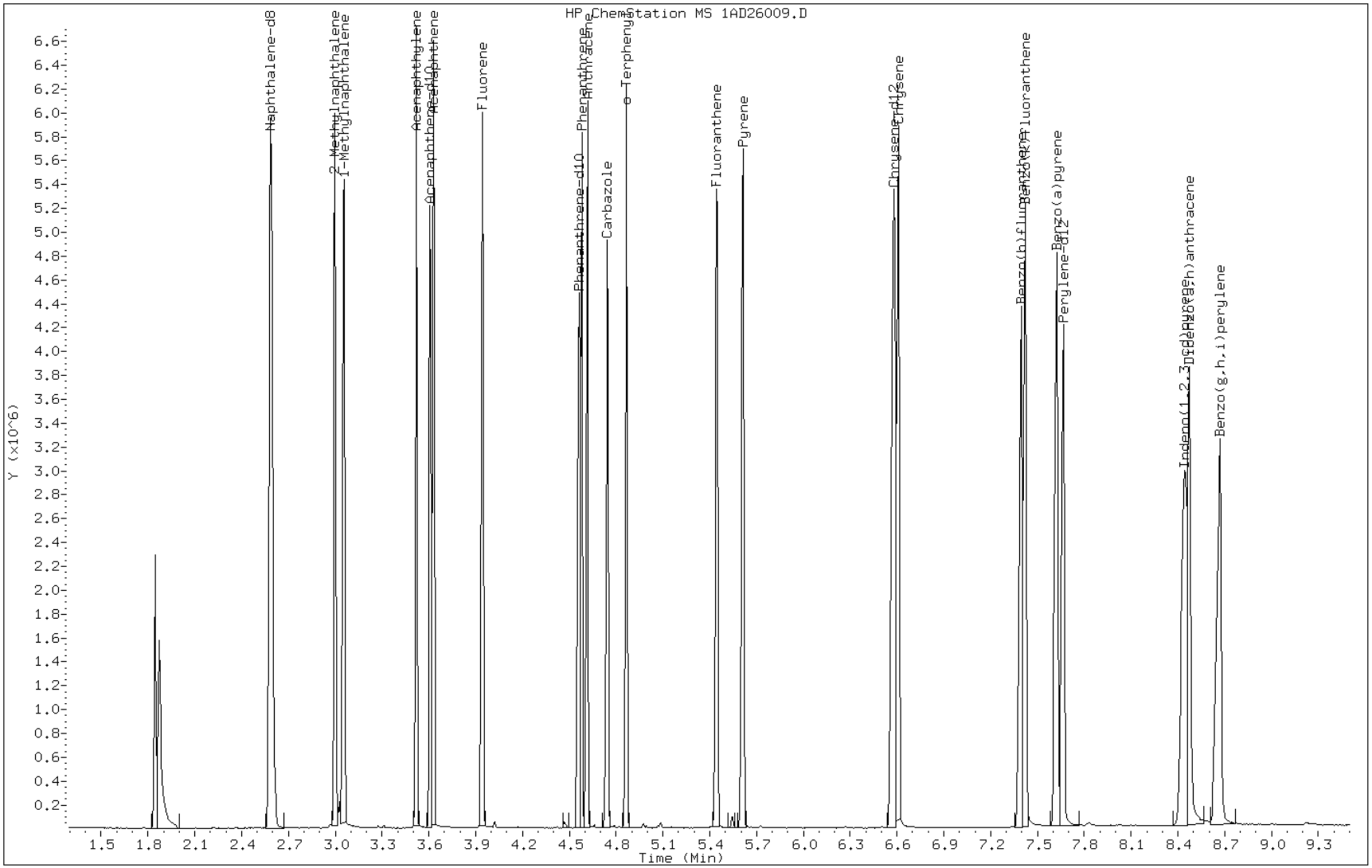
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

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

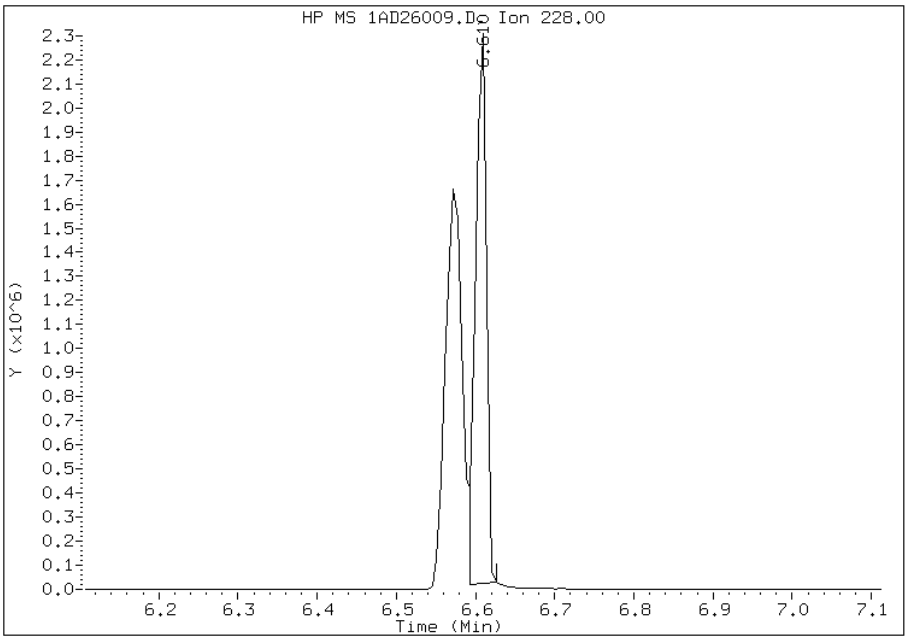
Processing Integration Results

RT: 6.61

Response: 2123056

Amount: 42

Conc: 42



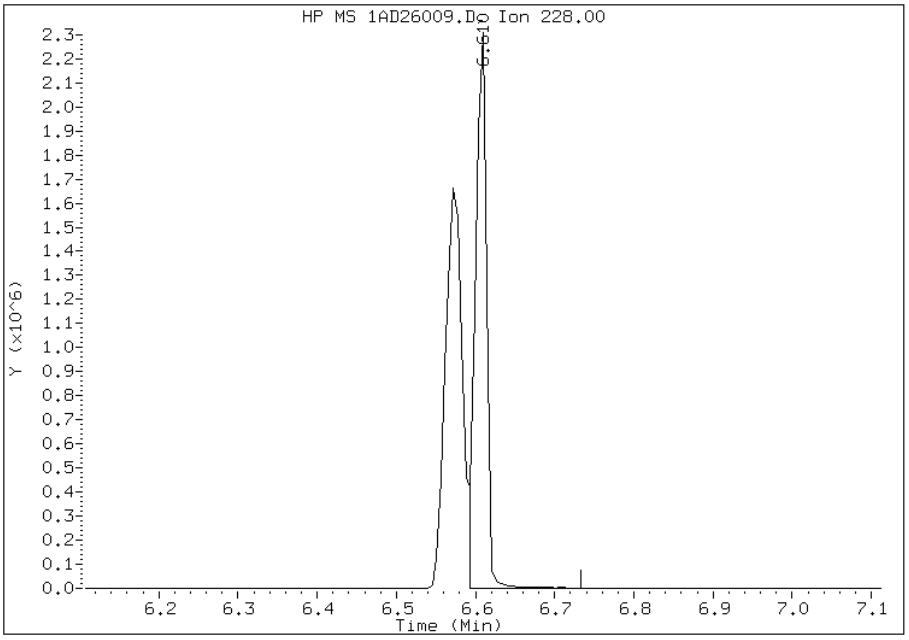
Manual Integration Results

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

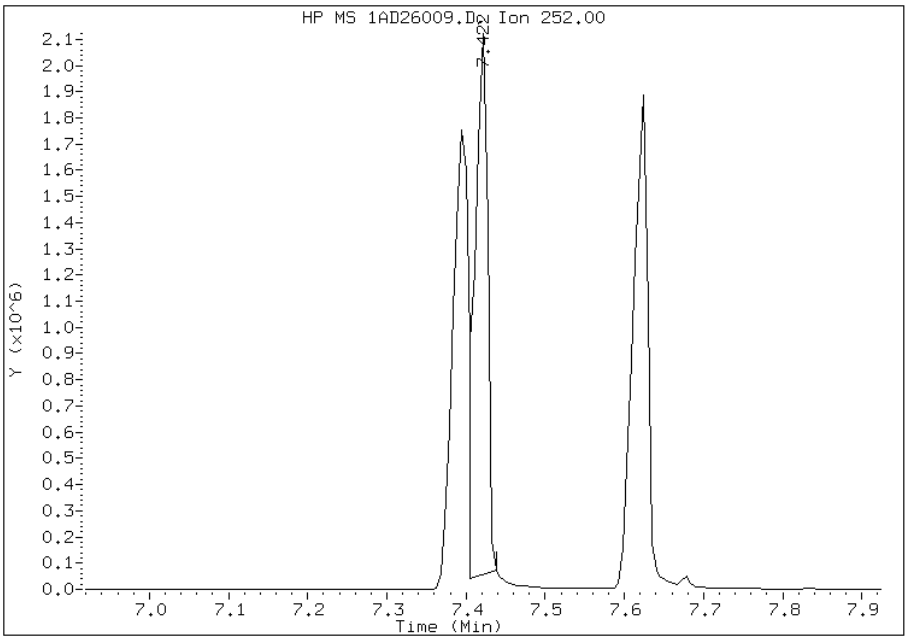
Processing Integration Results

RT: 7.42

Response: 2323626

Amount: 39

Conc: 39



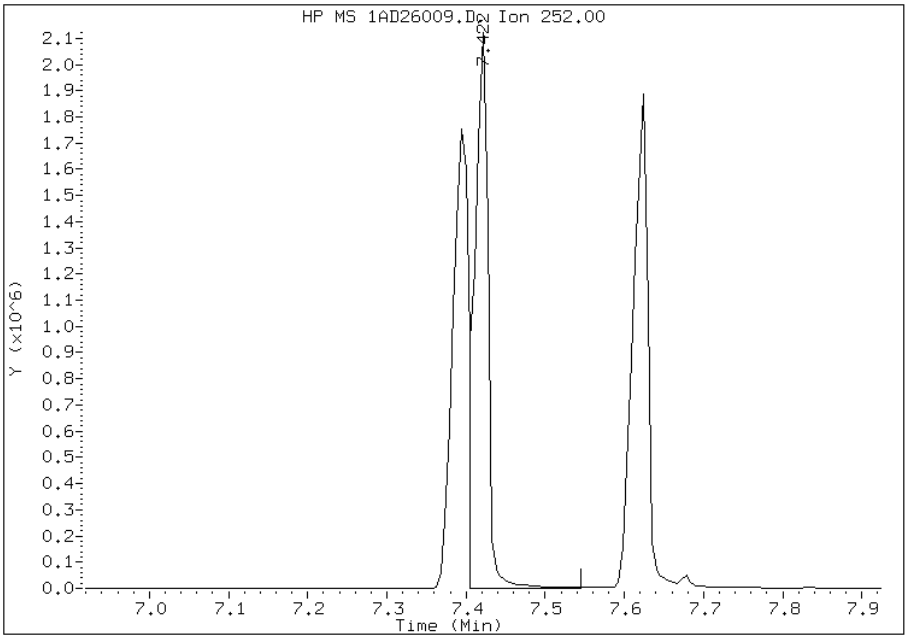
Manual Integration Results

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.: 680-89985-1 Analy Batch No.: 137156

SDG No.: 68089985-1

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.: 680-89985-1 Analy Batch No.: 137156

SDG No.: 68089985-1

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.: 680-89985-1 Analy Batch No.: 137156

SDG No.: 68089985-1

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	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	5529 1397244	28538	156392	301663	837016	0.200 50.0	1.00	5.00	10.0	30.0
2-Methylnaphthalene	NPT	Ave	2696 745285	14225	81952	150716	419604	0.200 50.0	1.00	5.00	10.0	30.0
1-Methylnaphthalene	NPT	Ave	3846 770690	18860	92797	180349	490403	0.200 50.0	1.00	5.00	10.0	30.0
Acenaphthylene	ANT	Ave	5213 1396662	29650	156651	305312	801835	0.200 50.0	1.00	5.00	10.0	30.0
Acenaphthene	ANT	Ave	4110 743745	17218	86437	170588	419418	0.200 50.0	1.00	5.00	10.0	30.0
Fluorene	ANT	Ave	3954 887590	17759	101320	192234	547833	0.200 50.0	1.00	5.00	10.0	30.0
Phenanthrene	PHN	Ave	5800 1241024	25196	136267	258887	711095	0.200 50.0	1.00	5.00	10.0	30.0
Anthracene	PHN	Ave	5355 1388133	26659	146994	283812	778079	0.200 50.0	1.00	5.00	10.0	30.0
Carbazole	PHN	Ave	4699 1222783	24572	139150	256614	692413	0.200 50.0	1.00	5.00	10.0	30.0
Fluoranthene	PHN	Ave	5681 1515990	29400	156066	302969	862141	0.200 50.0	1.00	5.00	10.0	30.0
Pyrene	CRY	Ave	5812 1521255	30866	169550	327292	882847	0.200 50.0	1.00	5.00	10.0	30.0
Benzo[a]anthracene	CRY	Ave	6910 1323236	26522	138014	257936	735367	0.200 50.0	1.00	5.00	10.0	30.0
Chrysene	CRY	Ave	7330 1361261	32255	161246	314241	809687	0.200 50.0	1.00	5.00	10.0	30.0
Benzo[b]fluoranthene	PRY	Ave	4707 1327571	21937	126343	236568	752076	0.200 50.0	1.00	5.00	10.0	30.0
Benzo[k]fluoranthene	PRY	Ave	6183 1352818	30936	164403	337219	813163	0.200 50.0	1.00	5.00	10.0	30.0
Benzo[a]pyrene	PRY	Ave	5050 1252292	22648	129901	263990	732885	0.200 50.0	1.00	5.00	10.0	30.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-89985-1 Analy Batch No.: 137156

SDG No.: 68089985-1

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	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Indeno[1,2,3-cd]pyrene	PRY	Ave	3985 1152680	18010	104666	216924	621385	0.200 50.0	1.00	5.00	10.0	30.0
Dibenz(a,h)anthracene	PRY	Ave	4105 1076428	21249	118003	224688	609787	0.200 50.0	1.00	5.00	10.0	30.0
Benzo[g,h,i]perylene	PRY	Ave	4503 1116517	22641	122623	232133	633546	0.200 50.0	1.00	5.00	10.0	30.0
o-Terphenyl	PHN	Ave	3228 697232	14933	80011	154345	410873	0.200 50.0	1.00	5.00	10.0	30.0

Curve Type Legend:
Ave = Average ISTD

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

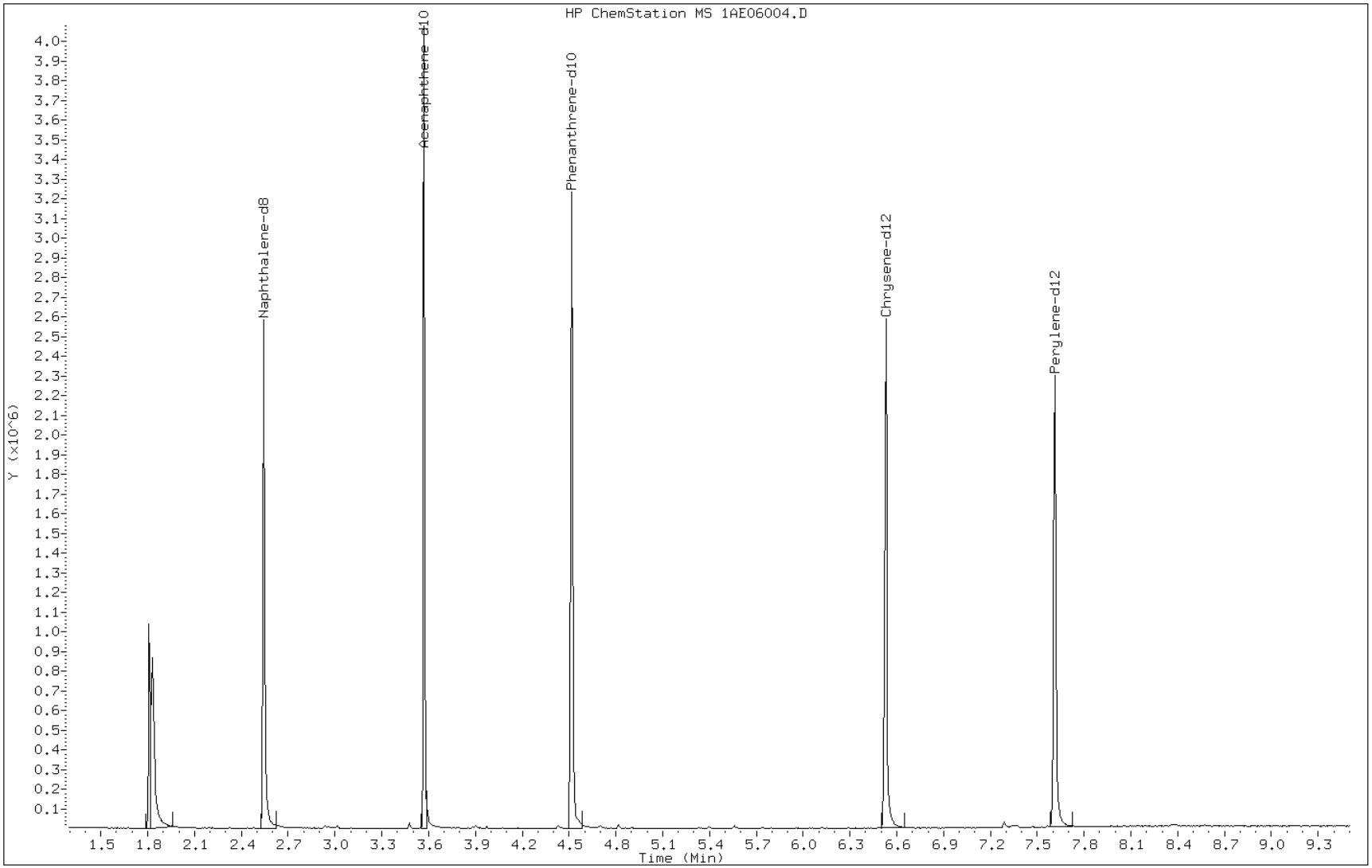
T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

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

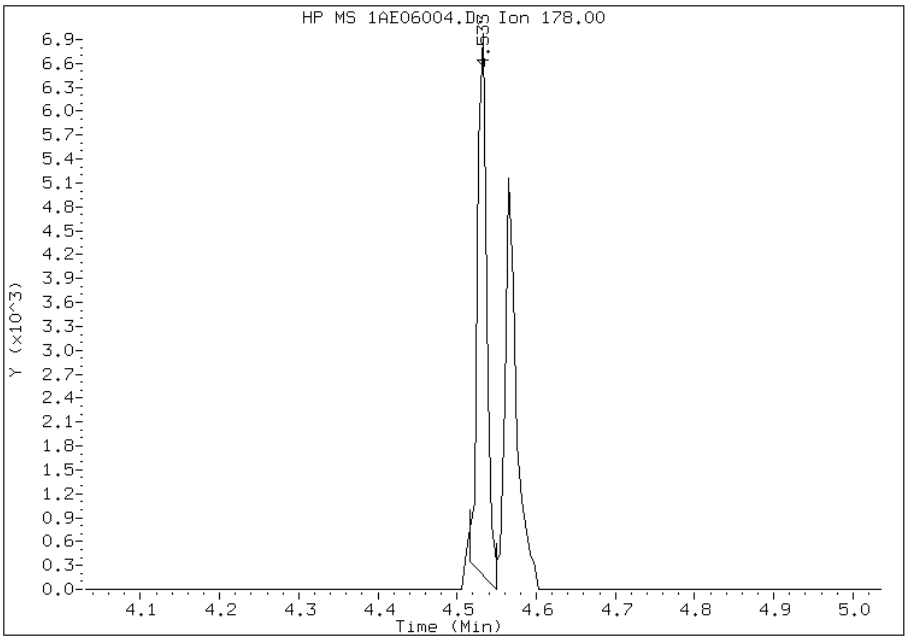
Processing Integration Results

RT: 4.53

Response: 5408

Amount: 0

Conc: 0



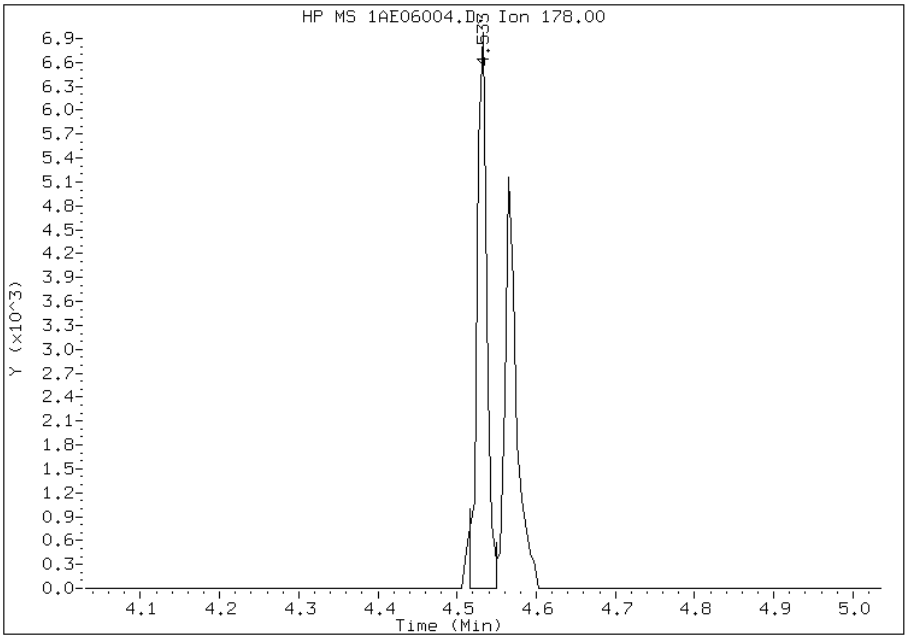
Manual Integration Results

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

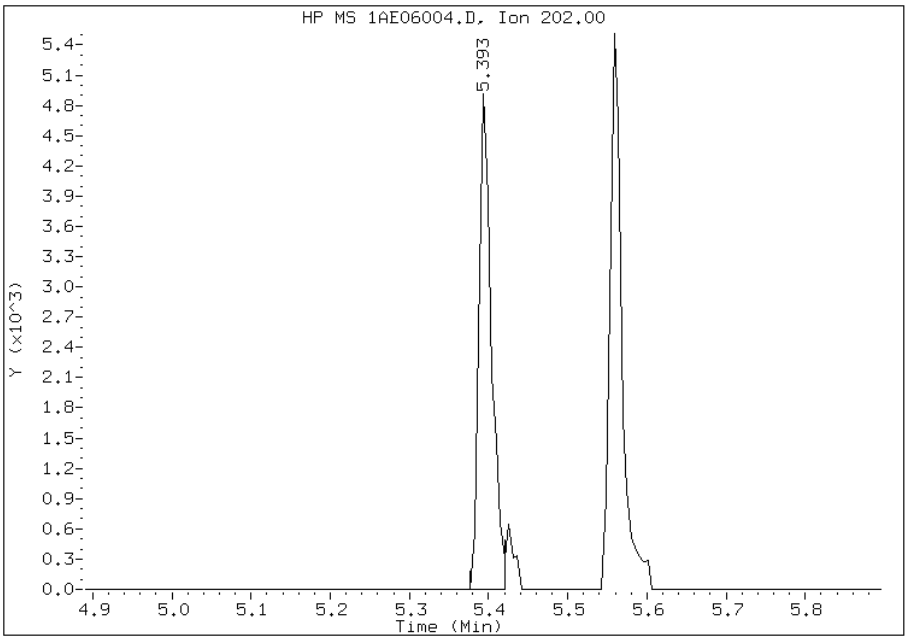
Processing Integration Results

RT: 5.39

Response: 5268

Amount: 0

Conc: 0



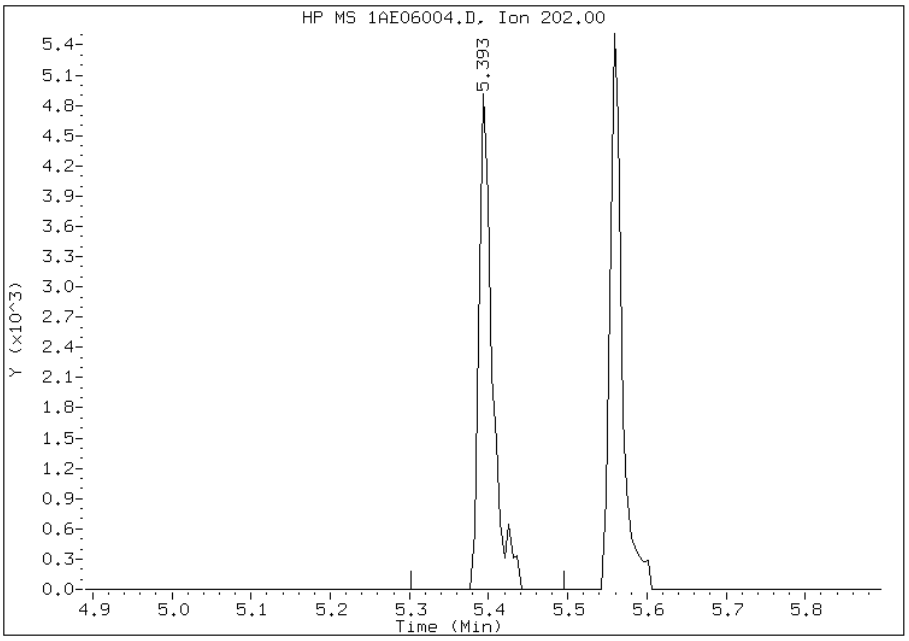
Manual Integration Results

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

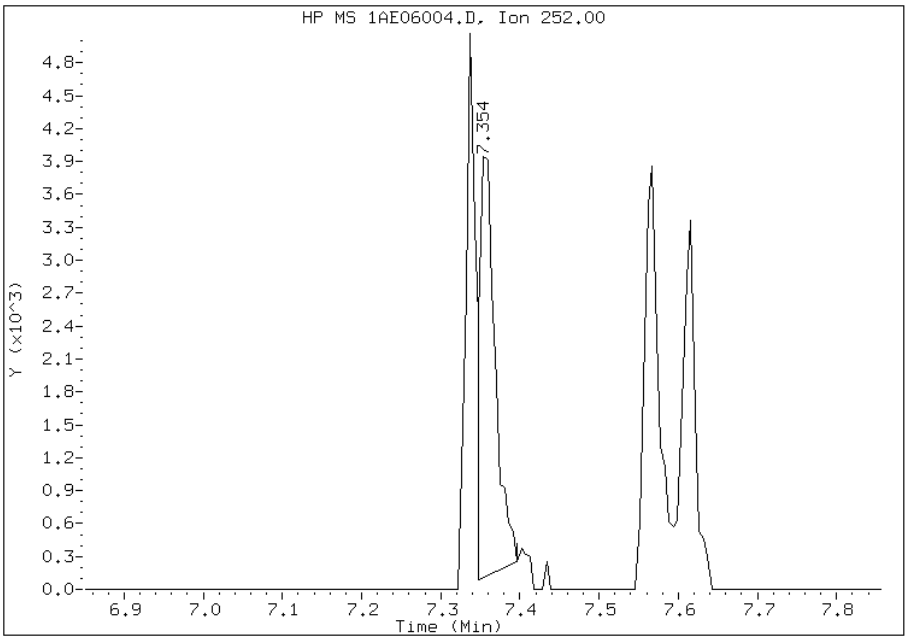
Processing Integration Results

RT: 7.35

Response: 5294

Amount: 0

Conc: 0



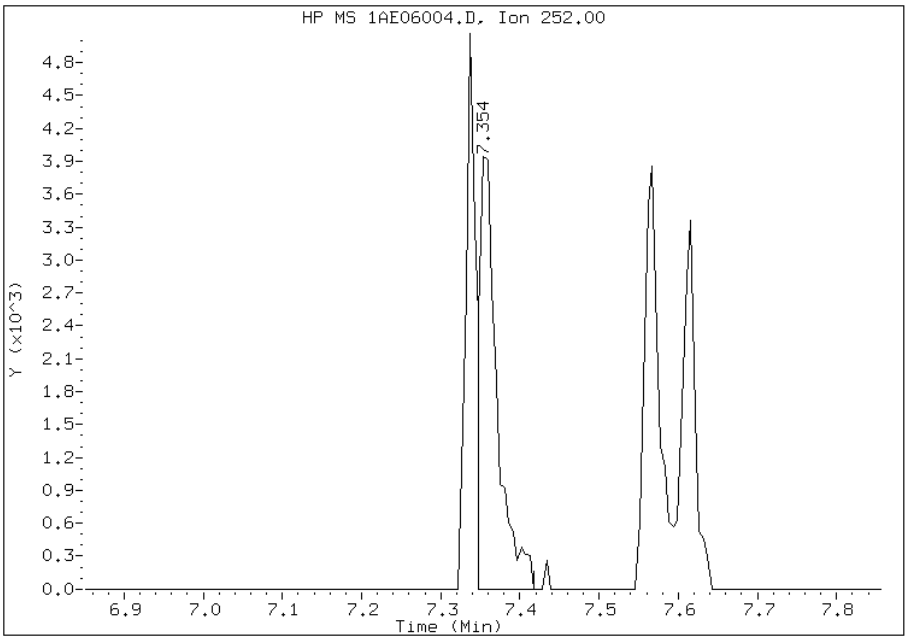
Manual Integration Results

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

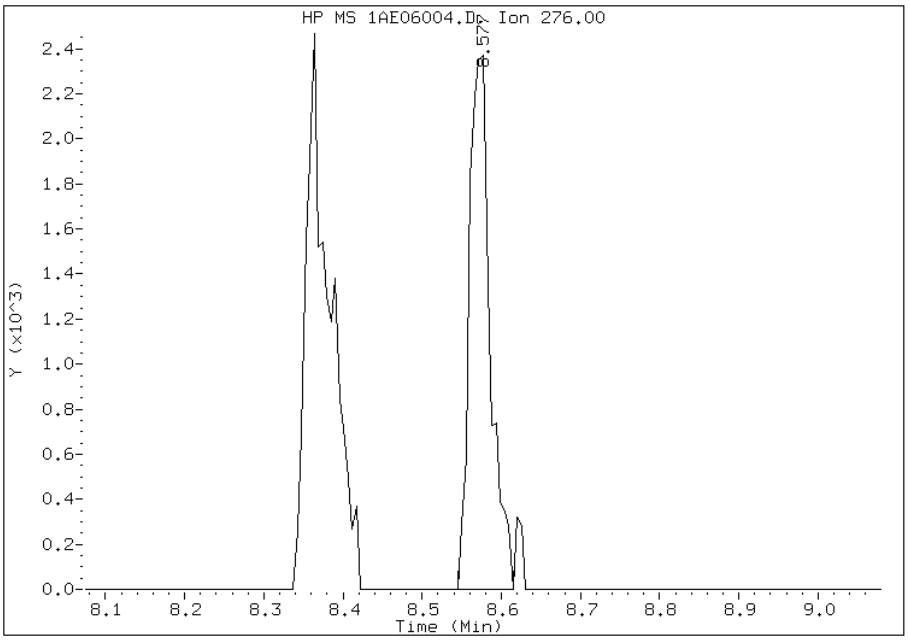
Processing Integration Results

RT: 8.58

Response: 4307

Amount: 0

Conc: 0



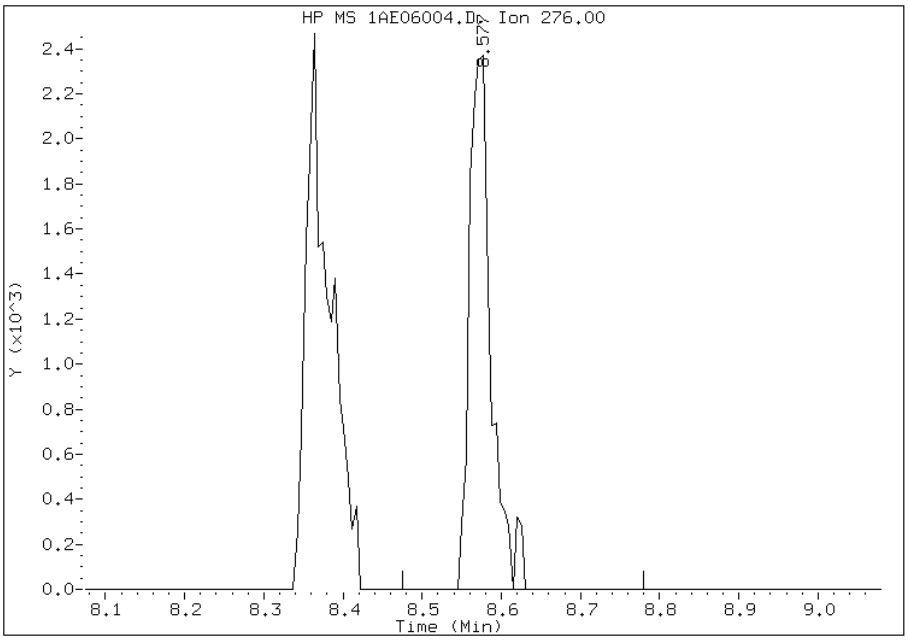
Manual Integration Results

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

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

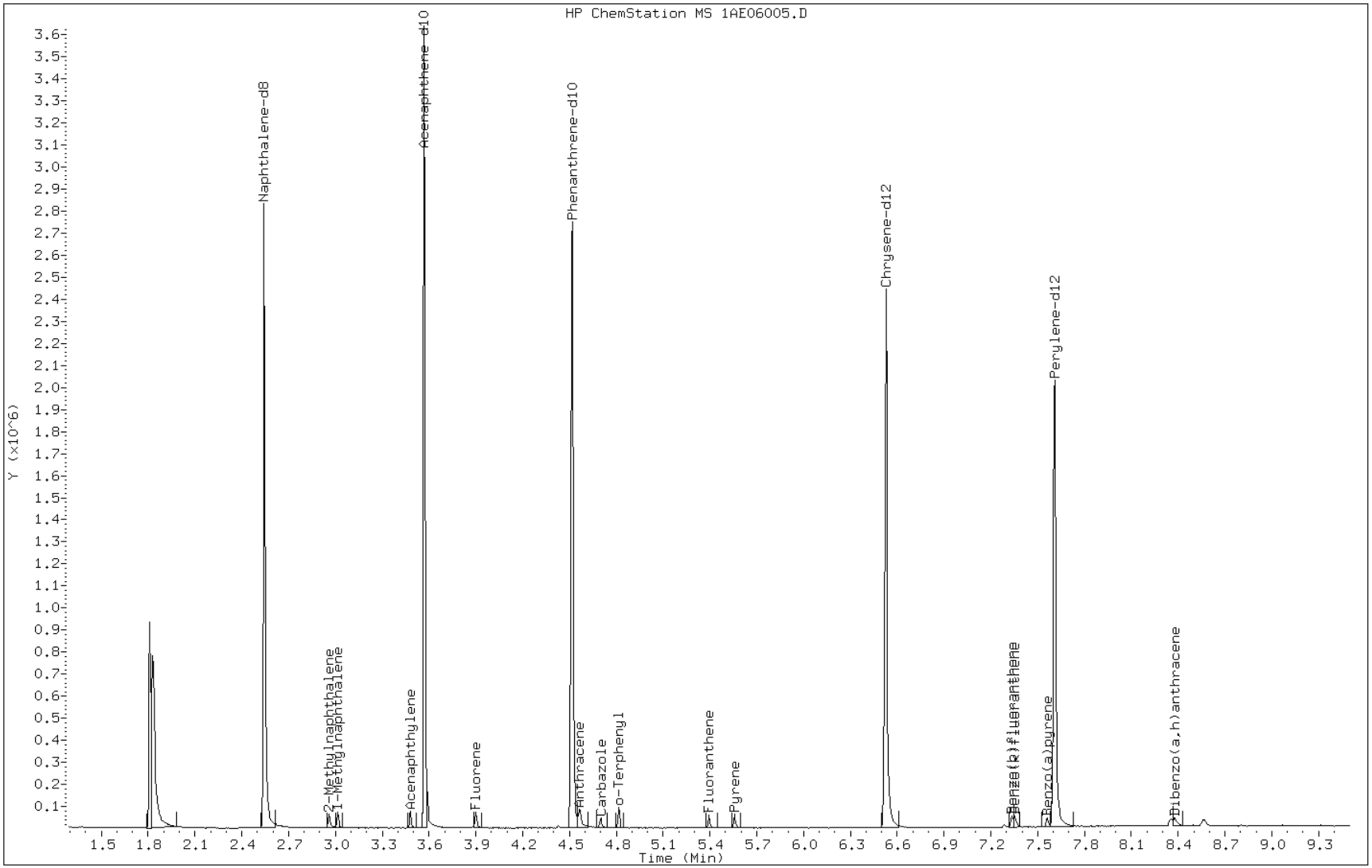
T - Target compound detected outside RT window.
M - Compound response manually integrated.

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

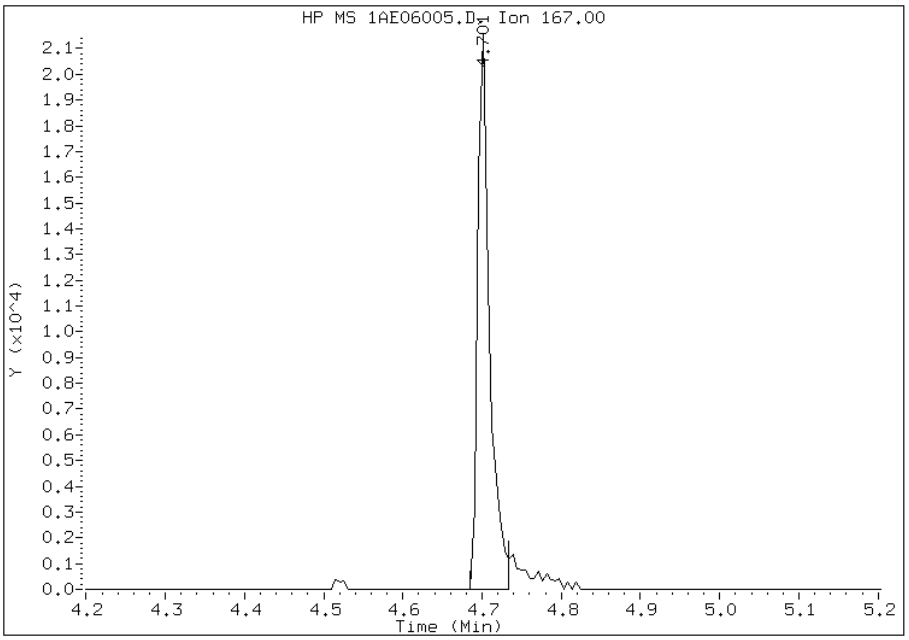
Processing Integration Results

RT: 4.70

Response: 22103

Amount: 1

Conc: 1



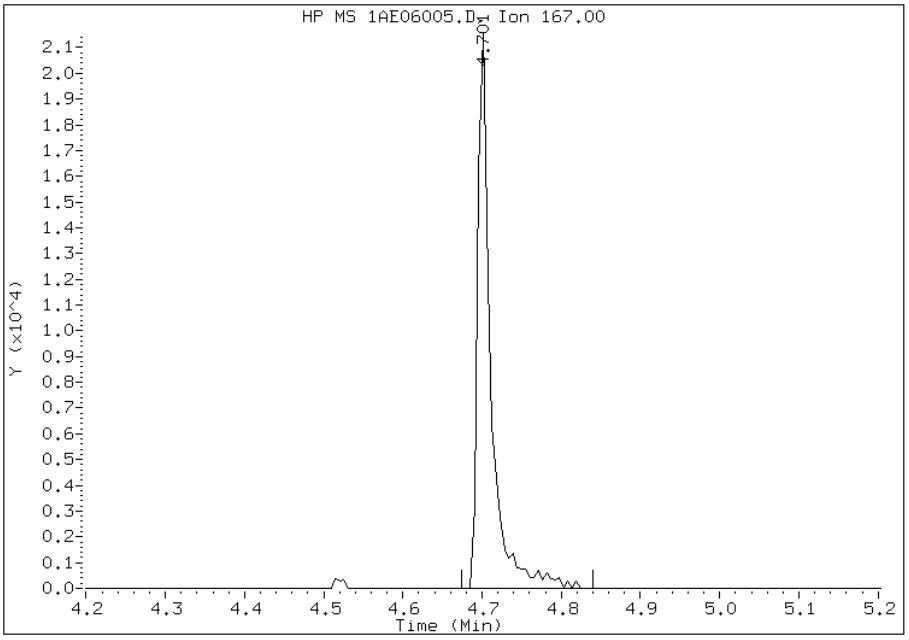
Manual Integration Results

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

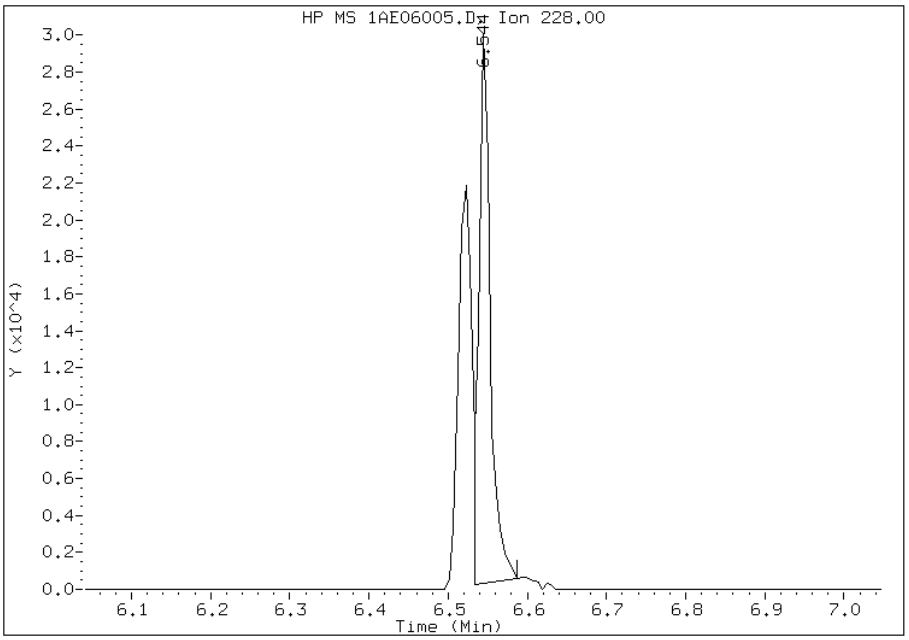
Processing Integration Results

RT: 6.54

Response: 29968

Amount: 1

Conc: 1



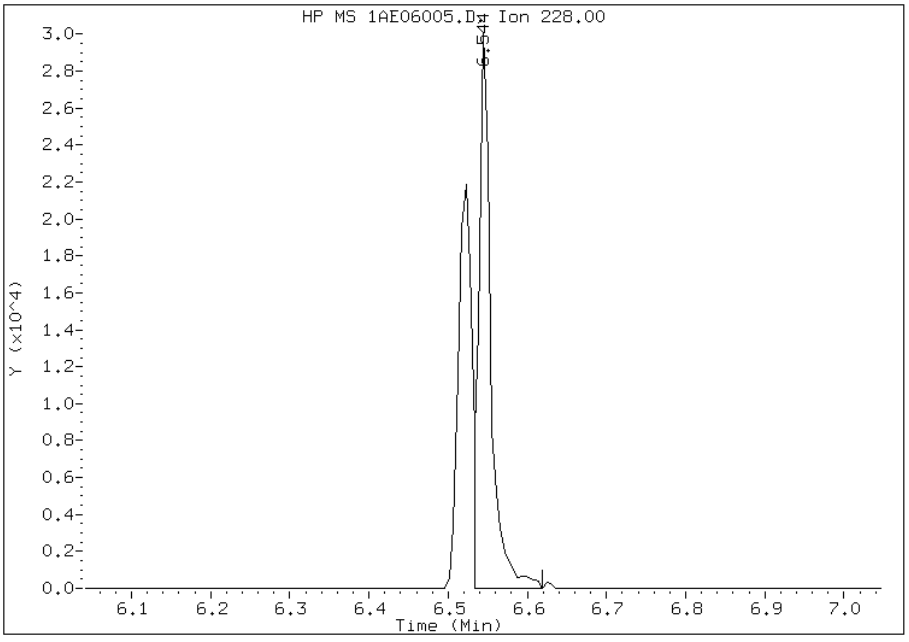
Manual Integration Results

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

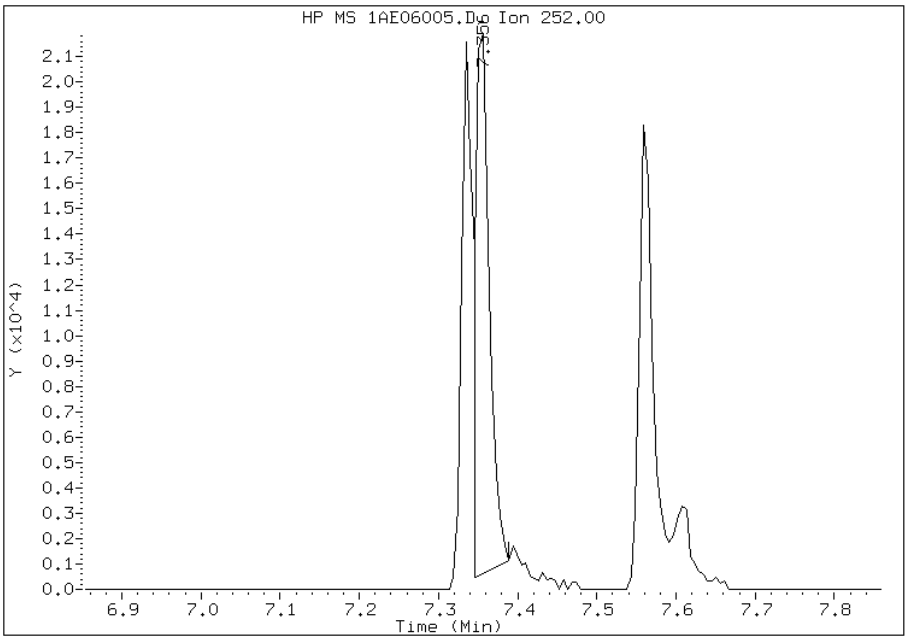
Processing Integration Results

RT: 7.36

Response: 26088

Amount: 1

Conc: 1



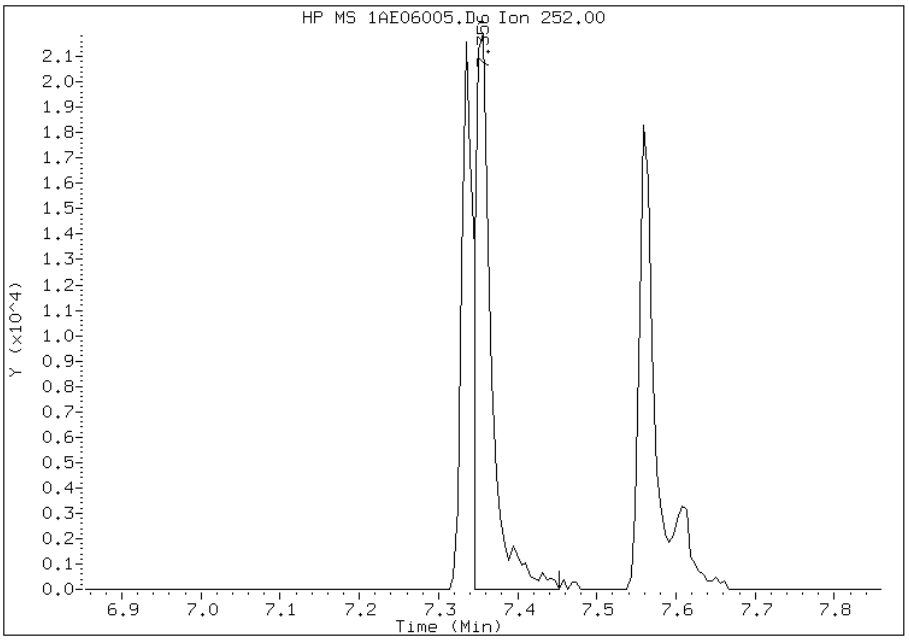
Manual Integration Results

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

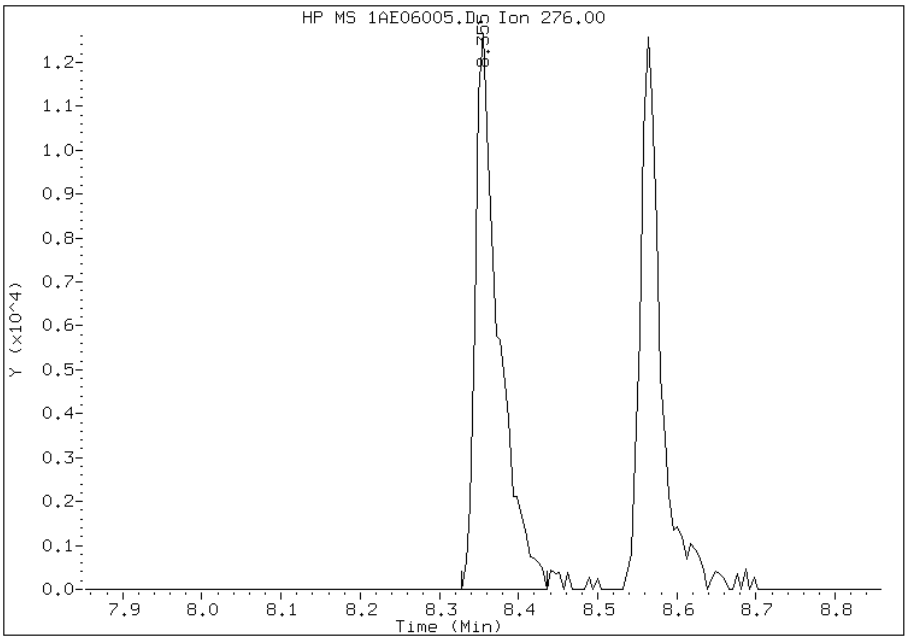
Processing Integration Results

RT: 8.36

Response: 25702

Amount: 1

Conc: 1



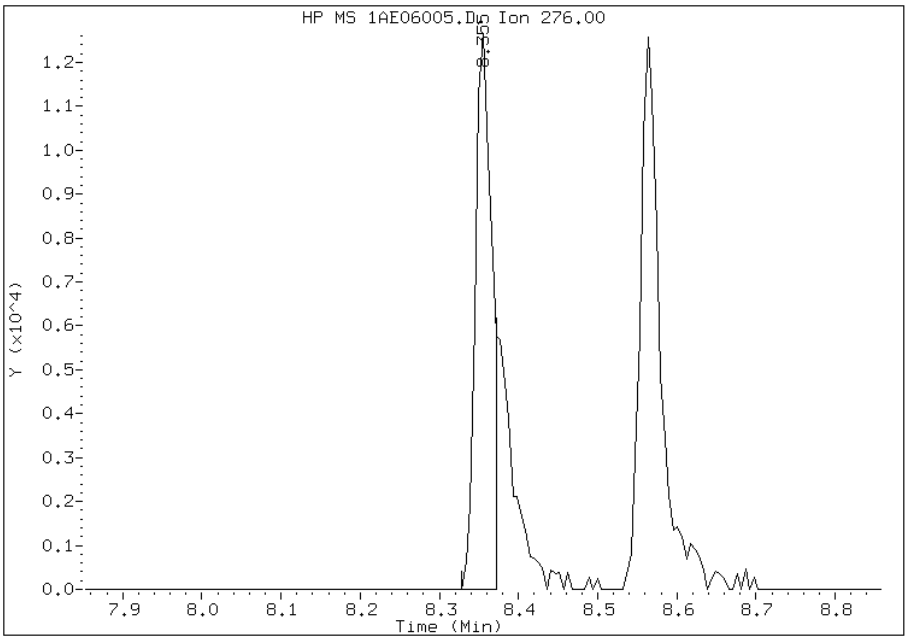
Manual Integration Results

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

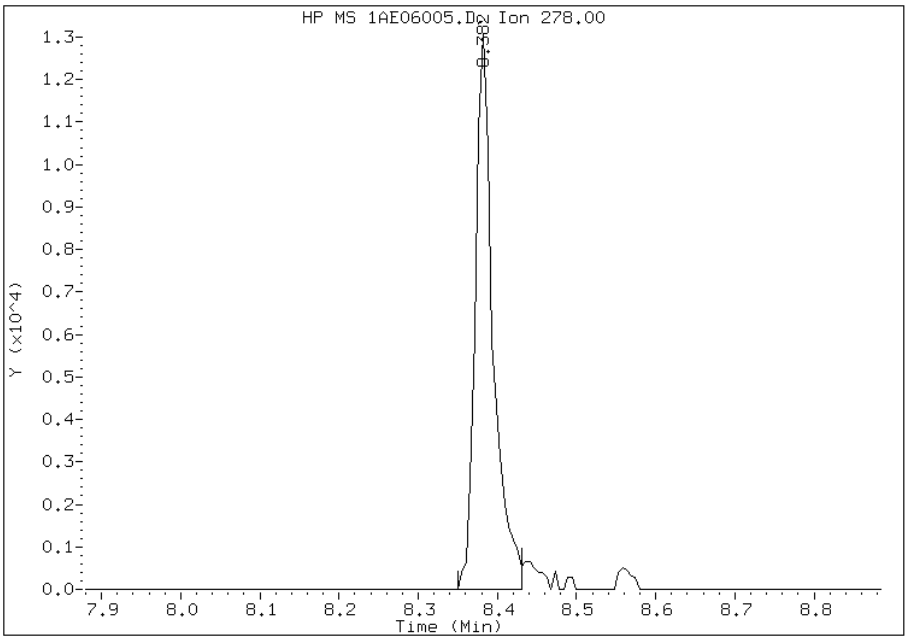
Processing Integration Results

RT: 8.38

Response: 20294

Amount: 1

Conc: 1



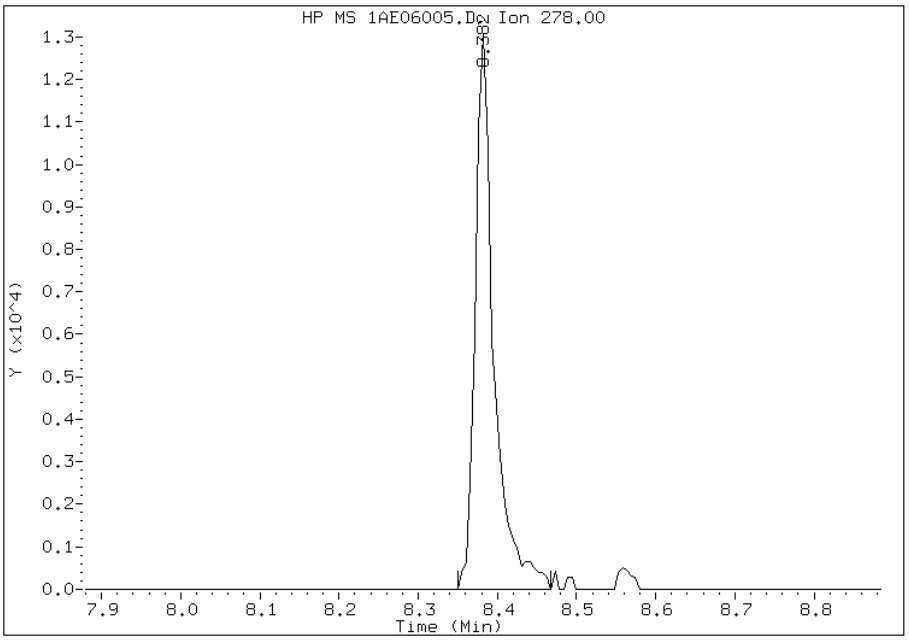
Manual Integration Results

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

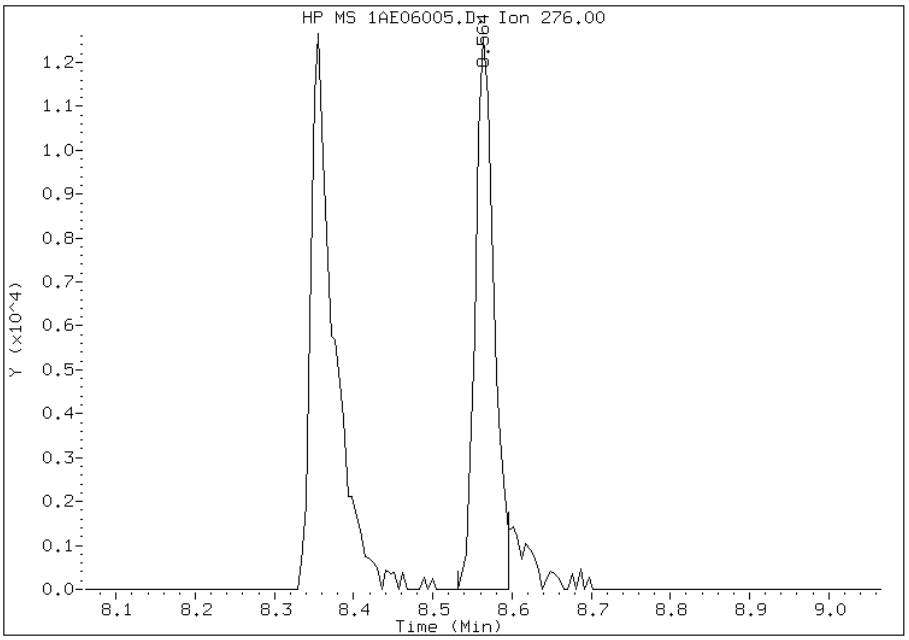
Processing Integration Results

RT: 8.56

Response: 20567

Amount: 1

Conc: 1



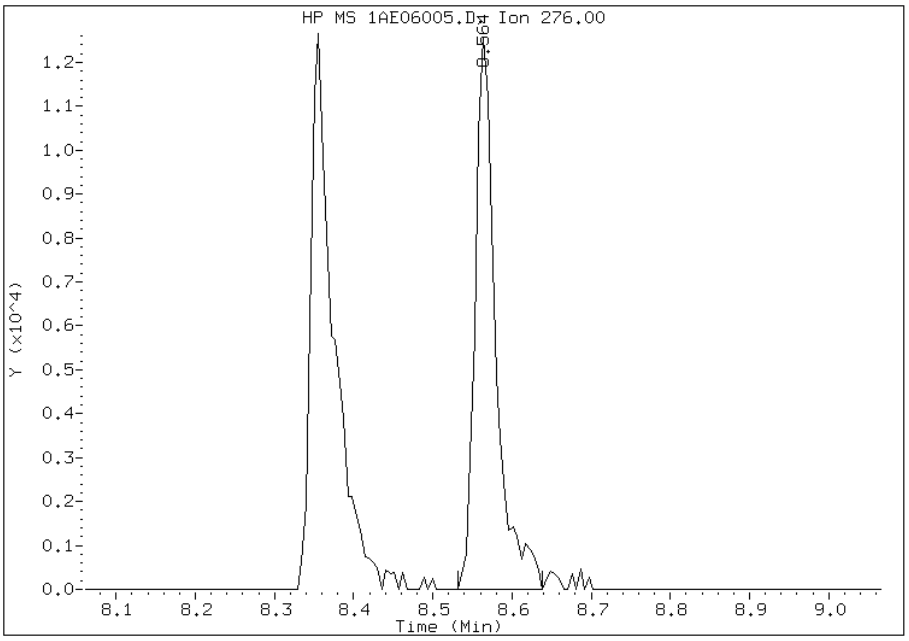
Manual Integration Results

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

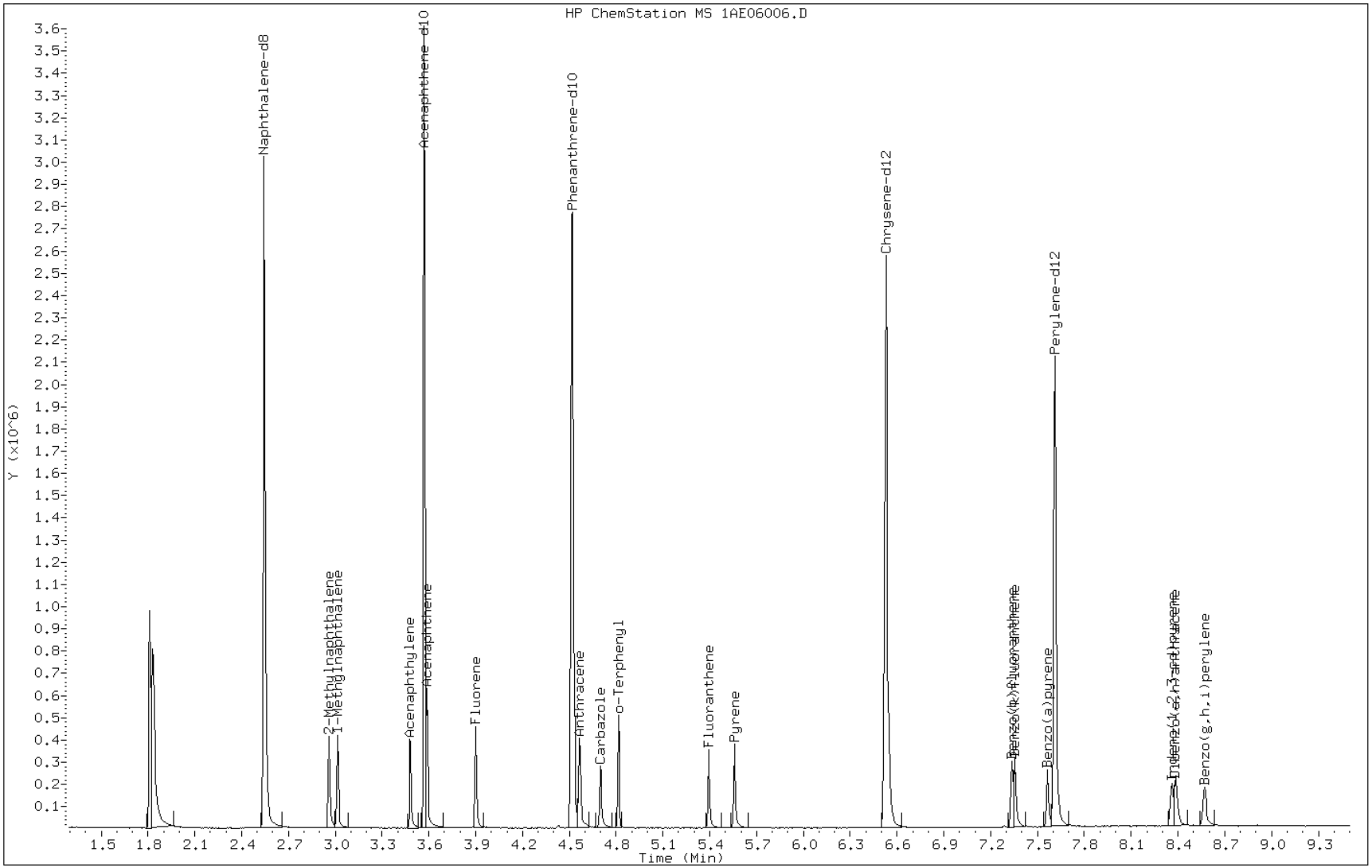
M - Compound response manually integrated.

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

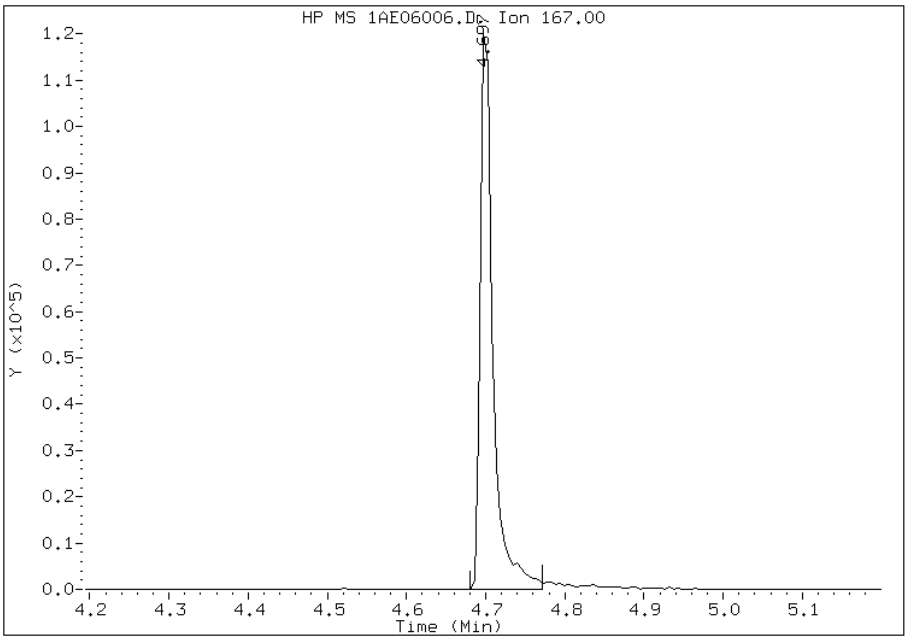
Processing Integration Results

RT: 4.70

Response: 132433

Amount: 5

Conc: 5



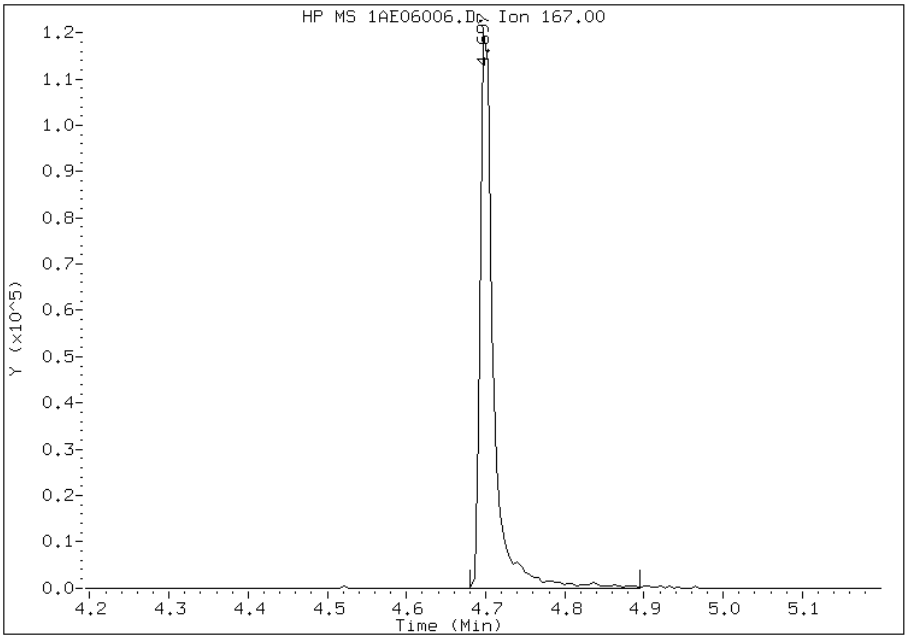
Manual Integration Results

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

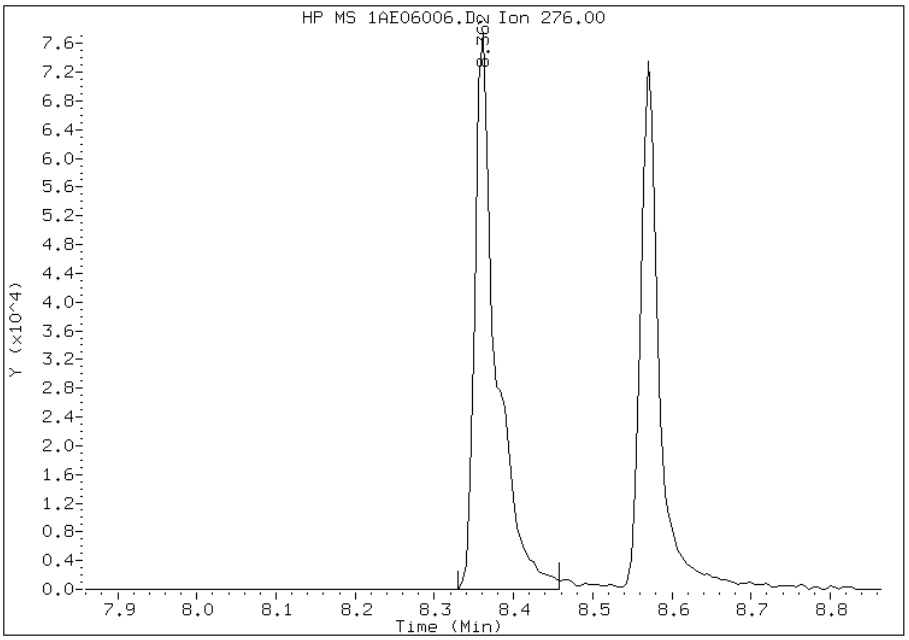
Processing Integration Results

RT: 8.36

Response: 144694

Amount: 6

Conc: 6



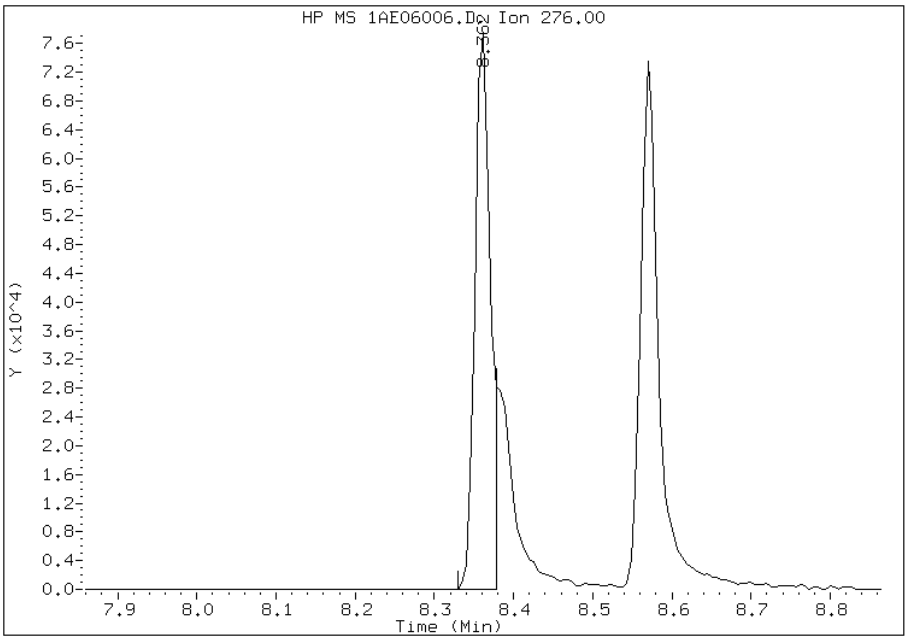
Manual Integration Results

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

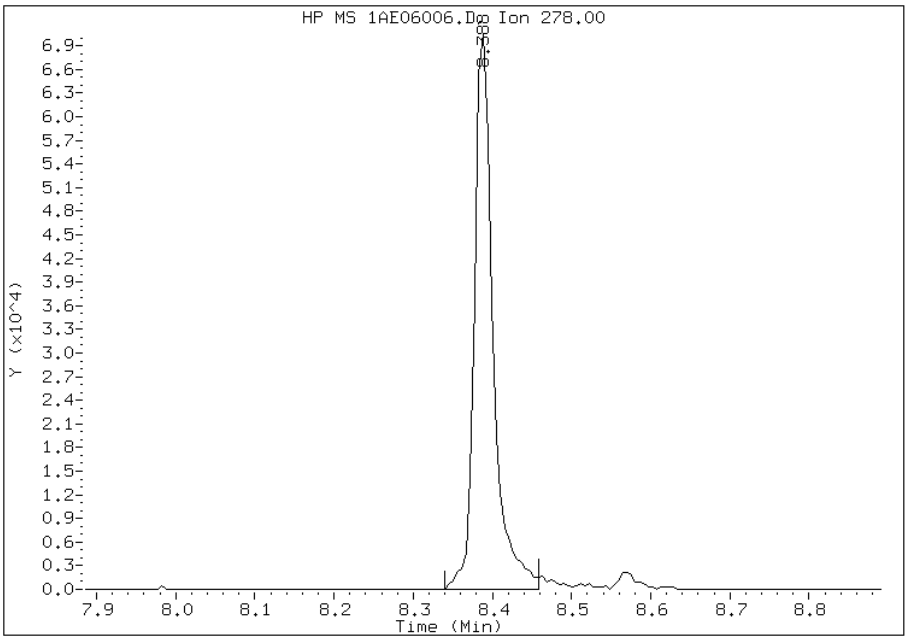
Processing Integration Results

RT: 8.39

Response: 114675

Amount: 5

Conc: 5



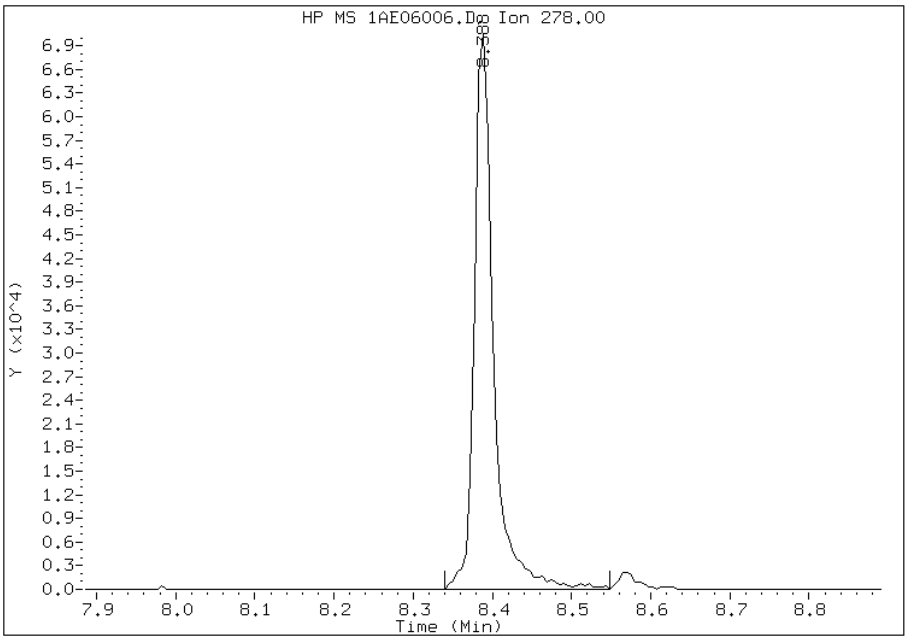
Manual Integration Results

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

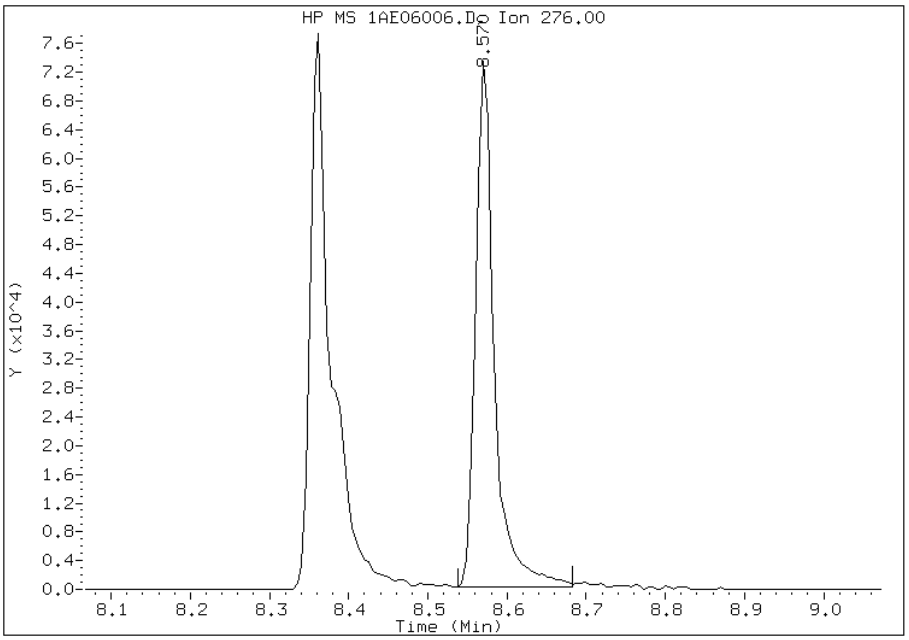
Processing Integration Results

RT: 8.57

Response: 119162

Amount: 5

Conc: 5



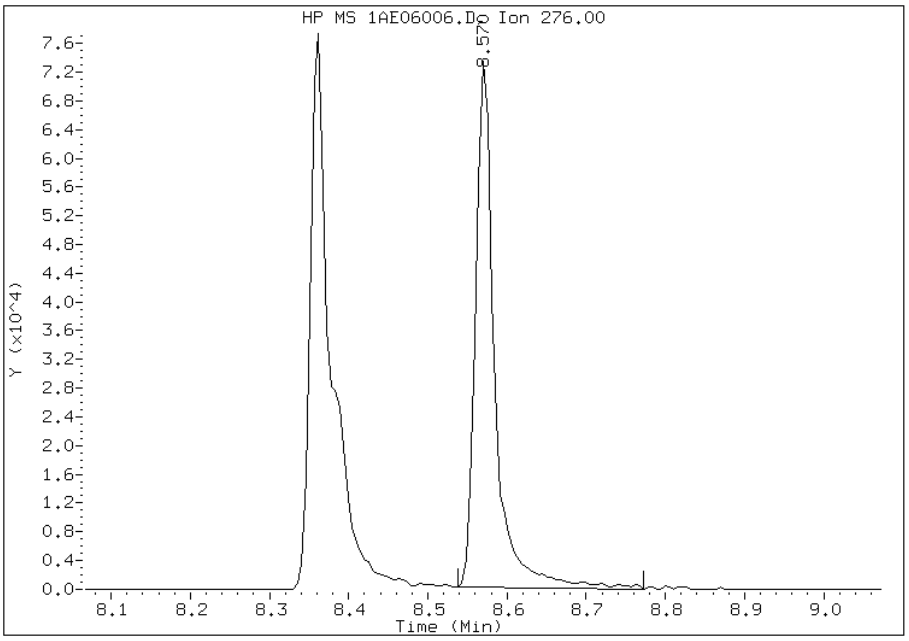
Manual Integration Results

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

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

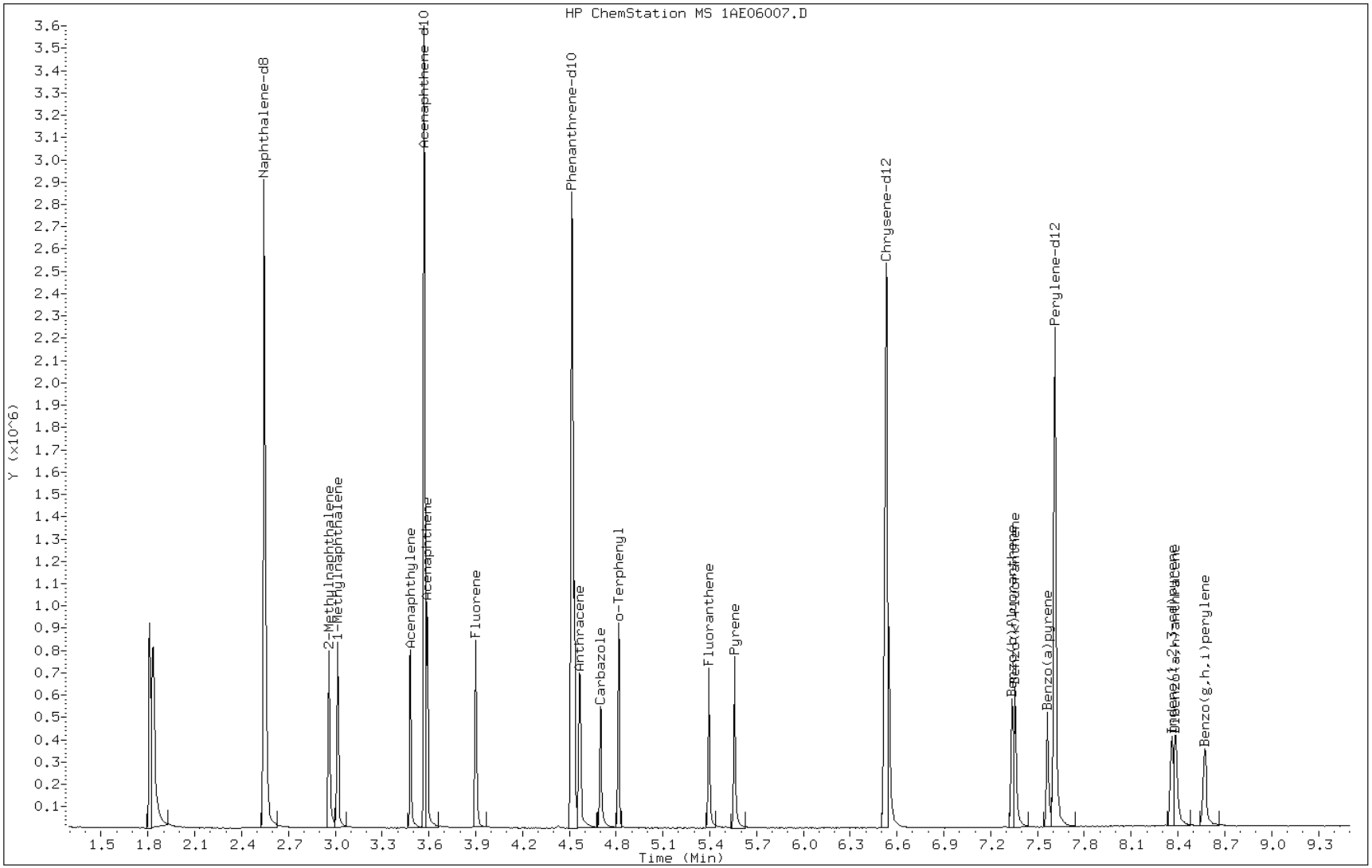
M - Compound response manually integrated.

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

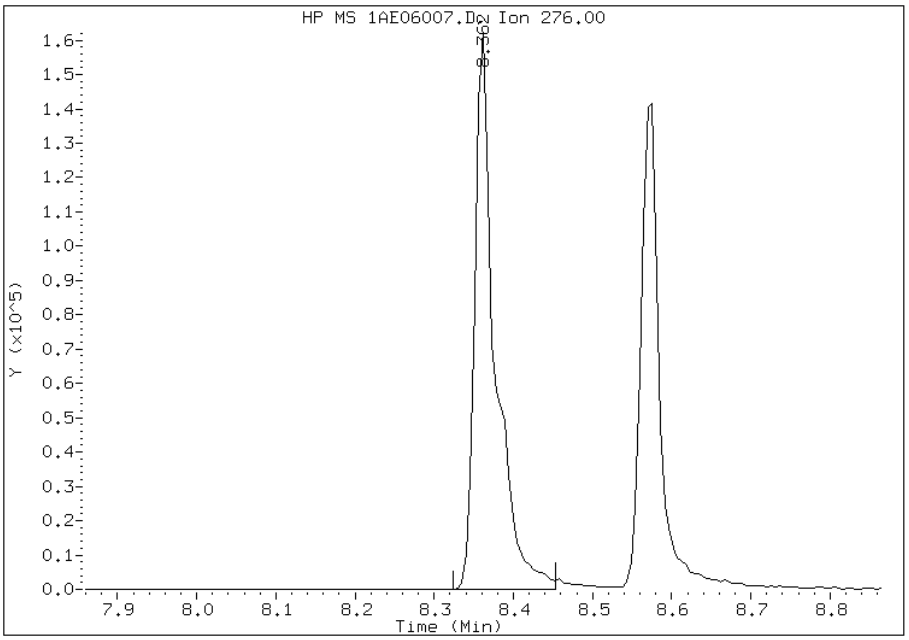
Processing Integration Results

RT: 8.36

Response: 287823

Amount: 13

Conc: 13



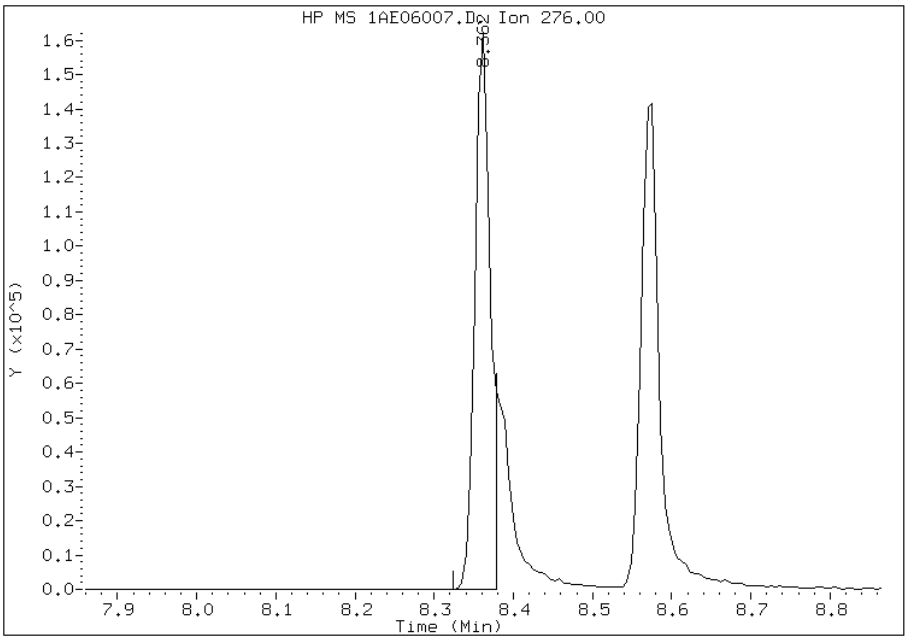
Manual Integration Results

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

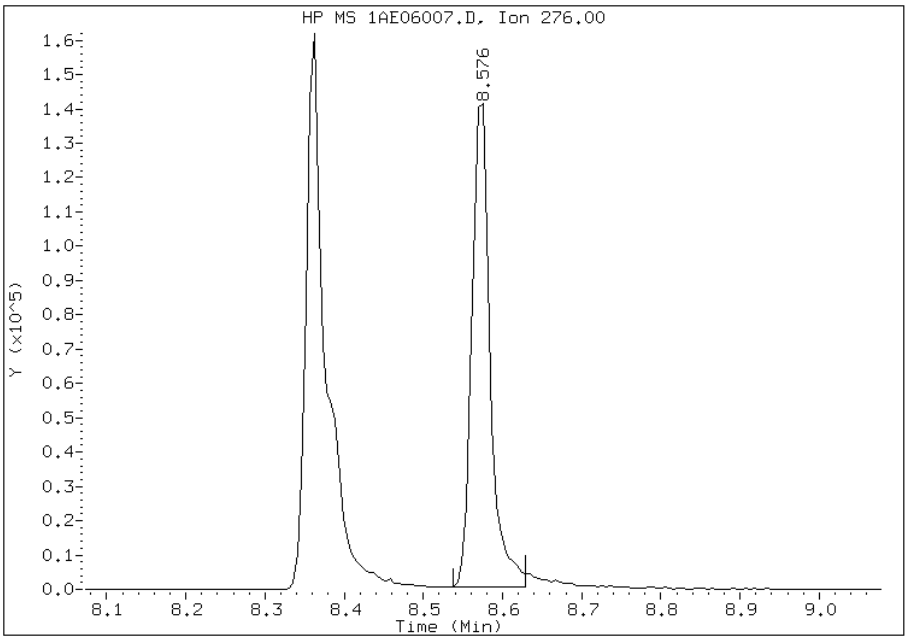
Processing Integration Results

RT: 8.58

Response: 224520

Amount: 9

Conc: 9



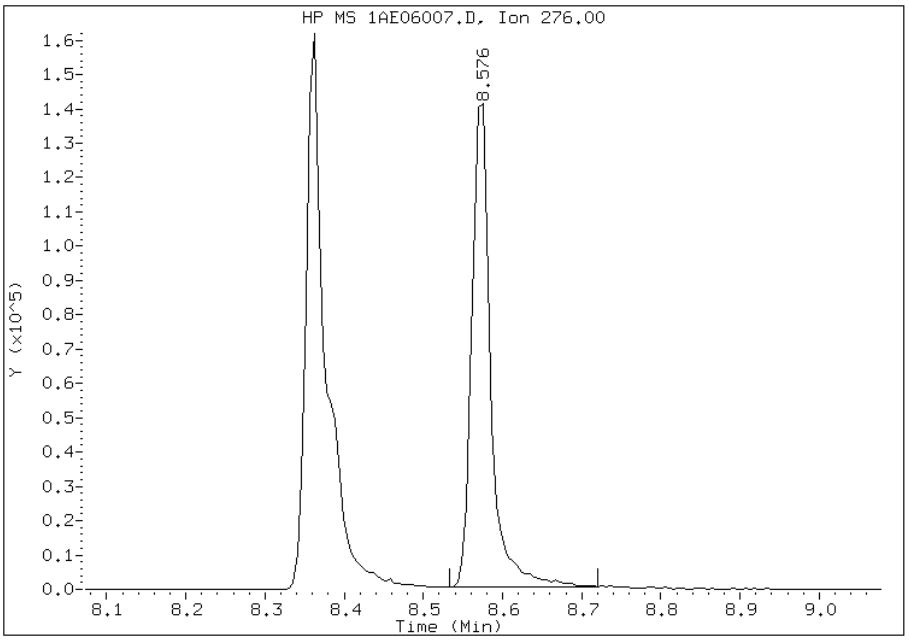
Manual Integration Results

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

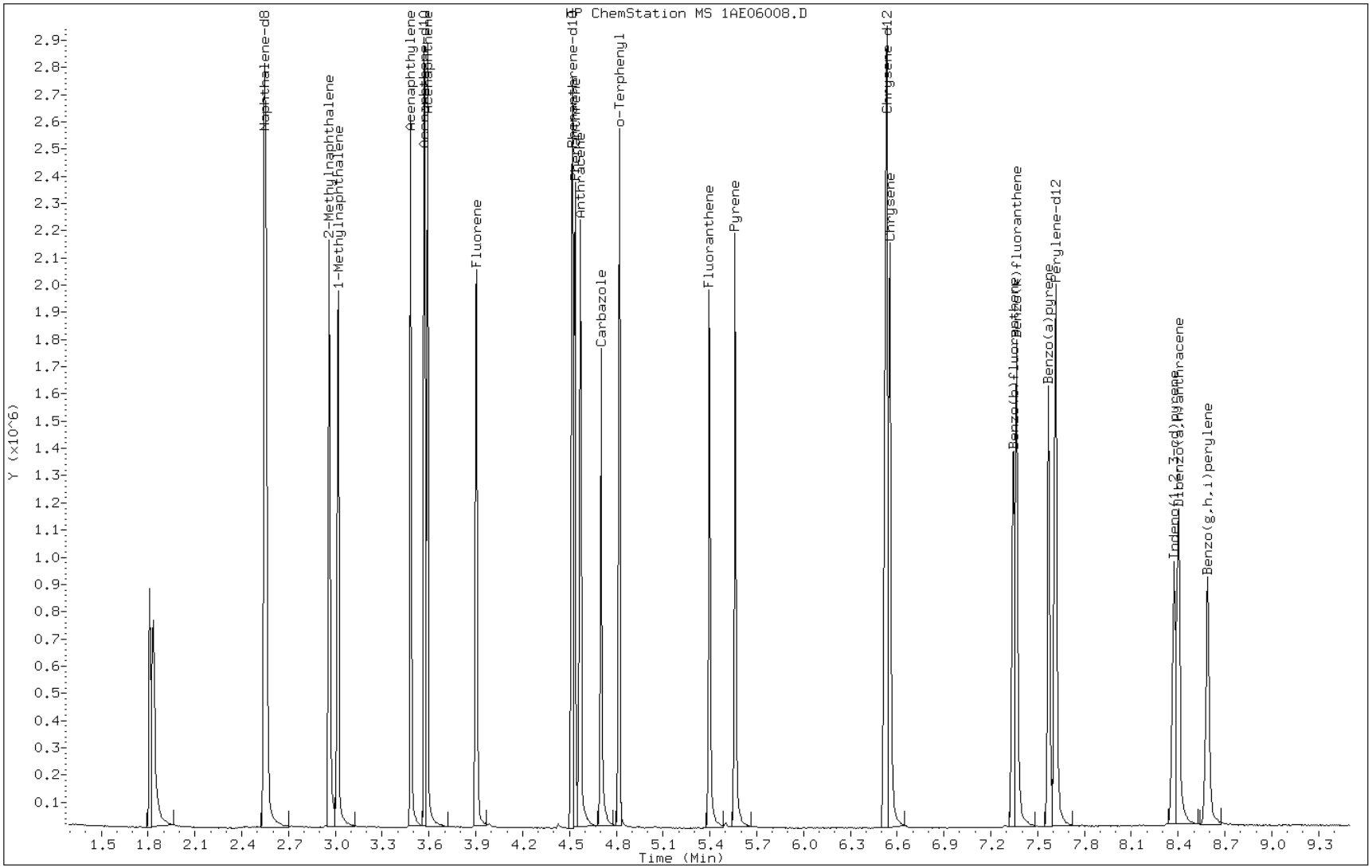
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	2.543	2.544	(1.000)	1147240	40.0000	
*	6 Acenaphthene-d10	164	3.569	3.575	(1.000)	572111	40.0000	
*	10 Phenanthrene-d10	188	4.519	4.520	(1.000)	993324	40.0000	
$	14 o-Terphenyl	230	4.819	4.819	(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

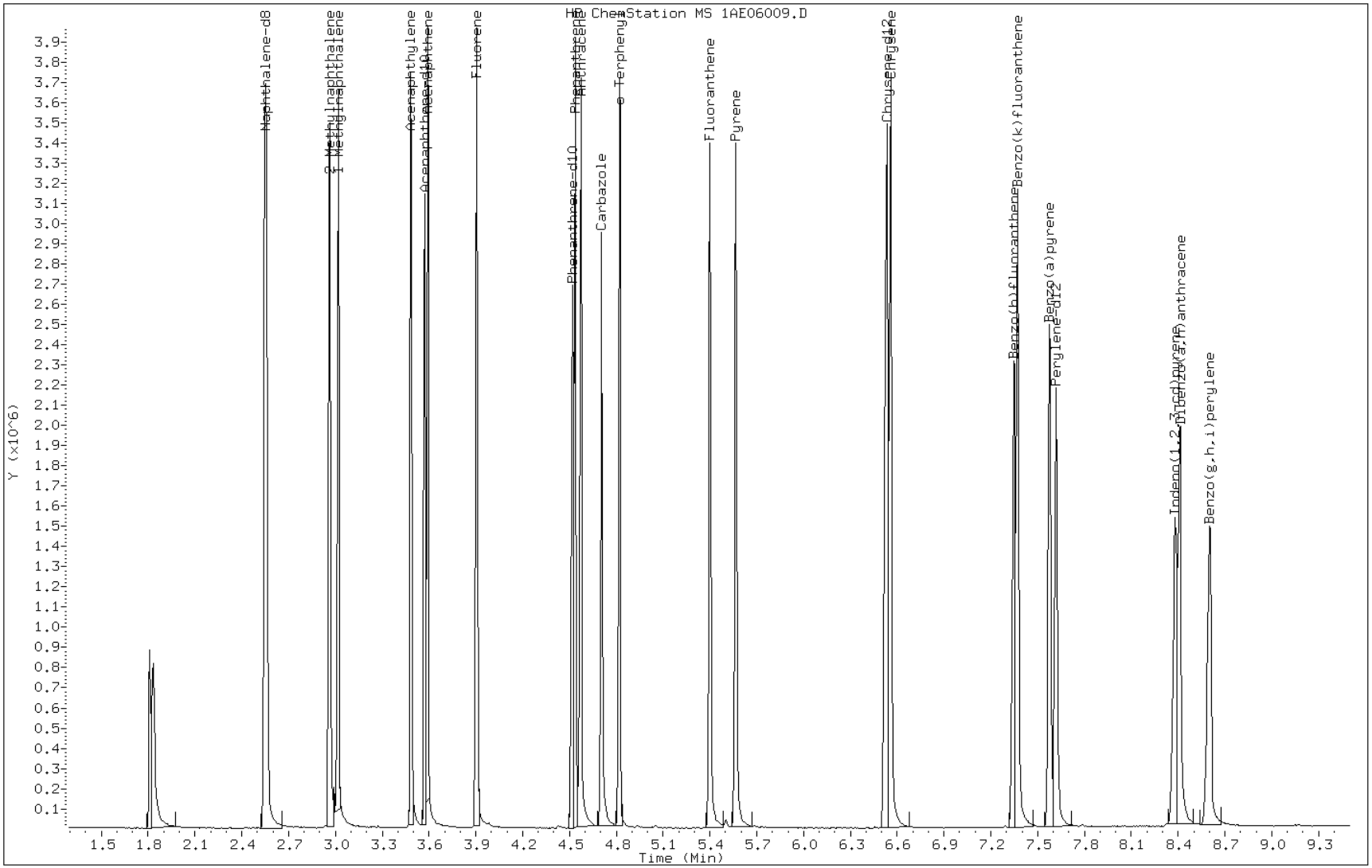
Date: 06-MAY-2013 11:56

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

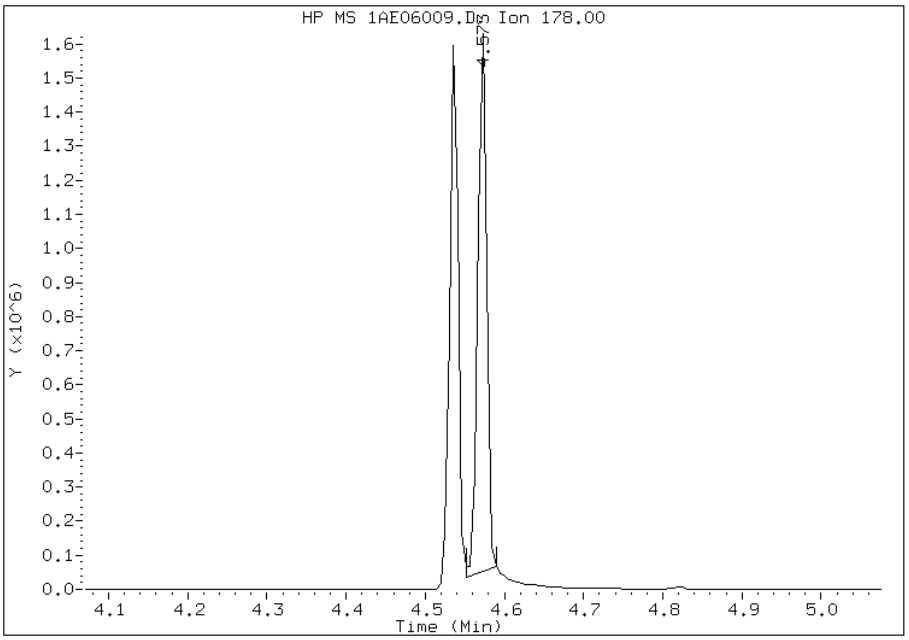
Processing Integration Results

RT: 4.57

Response: 1176629

Amount: 43

Conc: 43



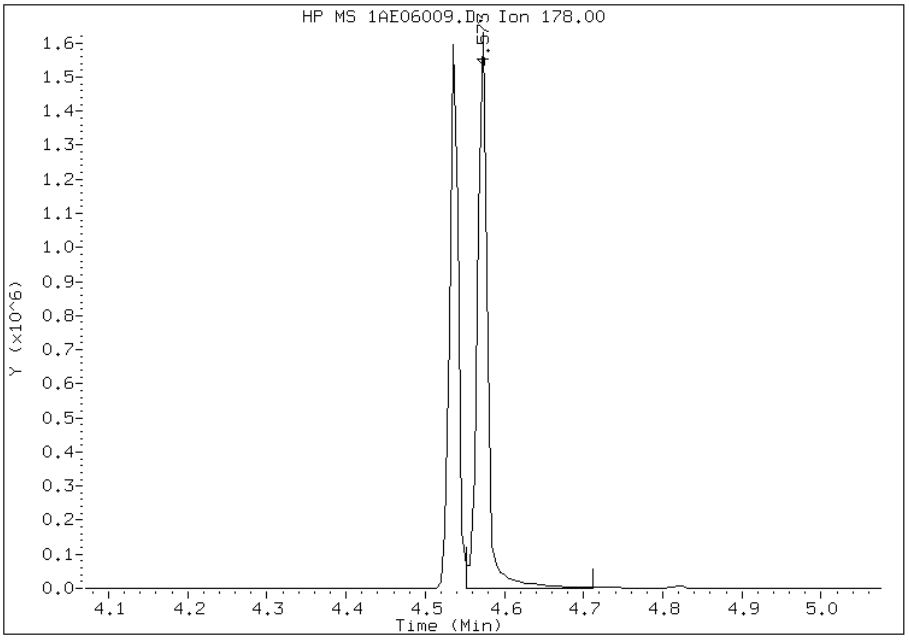
Manual Integration Results

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 VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

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)	CONCENTRATIONS 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

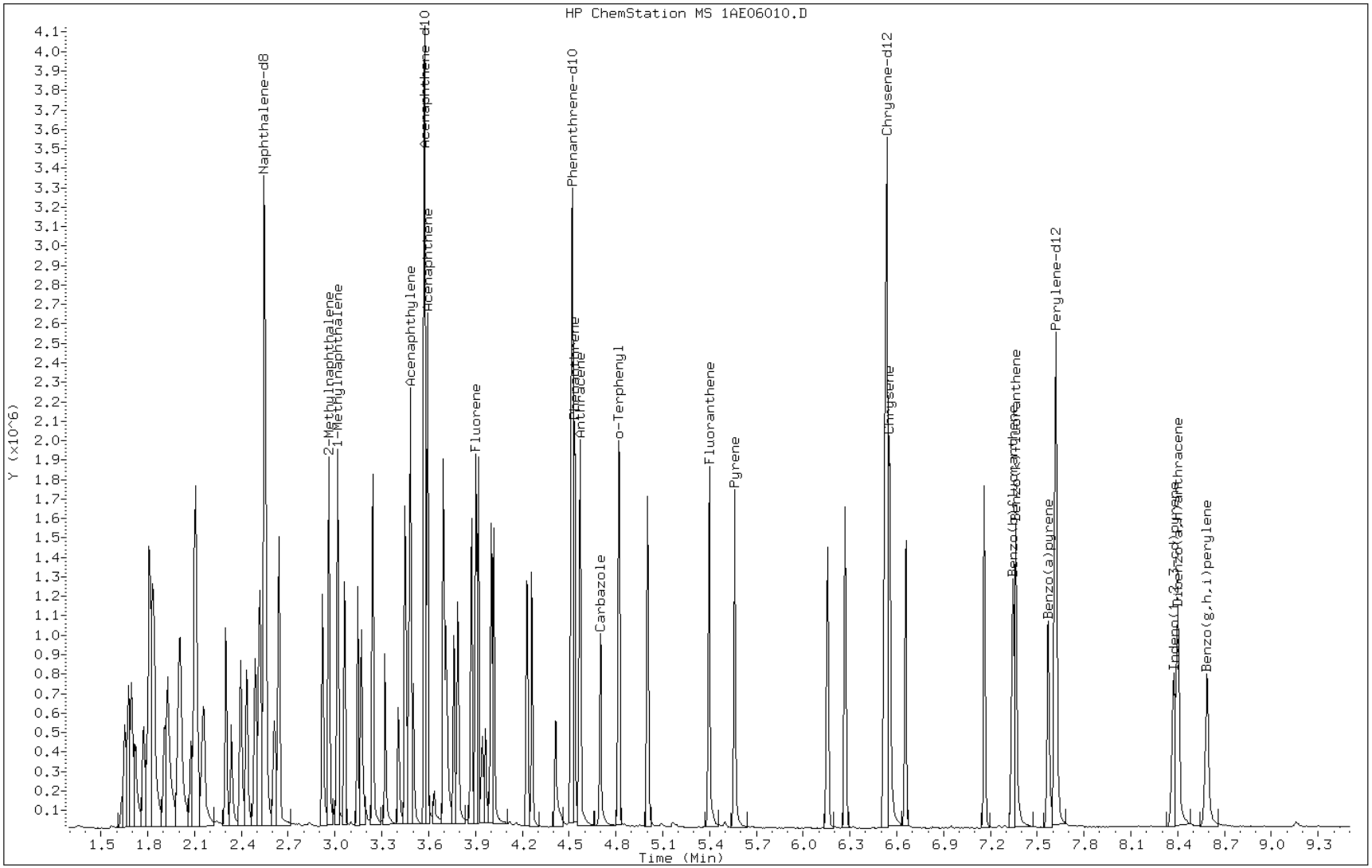
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/l)
17 Benzo(a)anthracene	228	6.525	6.524	(0.998)	654156	19.6760	19.6760
19 Chrysene	228	6.557	6.551	(1.003)	647722	17.3155	17.3155
20 Benzo(b)fluoranthene	252	7.343	7.347	(0.964)	576037	19.2726	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.: 680-89985-1

SDG No.: 68089985-1

Lab Sample ID: CCVIS 660-137194/3 Calibration Date: 05/07/2013 12:34

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: 1AE07003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9420	0.9490	0.0000	20100	20000	0.7	20.0
2-Methylnaphthalene	Ave	0.4787	0.4970	0.0000	20800	20000	3.8	20.0
1-Methylnaphthalene	Ave	0.5738	0.5868	0.0000	20500	20000	2.3	20.0
Acenaphthylene	Ave	1.880	1.975	0.0000	21000	20000	5.1	20.0
Acenaphthene	Ave	1.079	1.006	0.0000	18600	20000	-6.8	20.0
Fluorene	Ave	1.230	1.295	0.0000	21000	20000	5.2	20.0
Phenanthrene	Ave	0.9910	0.9779	0.0000	19700	20000	-1.3	20.0
Anthracene	Ave	1.056	1.084	0.0000	20500	20000	2.7	20.0
Carbazole	Ave	0.9491	0.9566	0.0000	20200	20000	0.8	20.0
Fluoranthene	Ave	1.140	1.189	0.0000	20900	20000	4.3	20.0
Pyrene	Ave	1.286	1.356	0.0000	21100	20000	5.4	20.0
Benzo[a]anthracene	Ave	1.124	1.077	0.0000	19200	20000	-4.2	20.0
Chrysene	Ave	1.265	1.234	0.0000	19500	20000	-2.4	20.0
Benzo[b]fluoranthene	Ave	1.057	0.9357	0.0000	17700	20000	-11.5	20.0
Benzo[k]fluoranthene	Ave	1.312	1.445	0.0000	22000	20000	10.2	20.0
Benzo[a]pyrene	Ave	1.086	1.124	0.0000	20700	20000	3.5	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9096	0.9080	0.0000	20000	20000	-0.2	20.0
Dibenz(a,h)anthracene	Ave	0.9324	0.8557	0.0000	18400	20000	-8.2	20.0
Benzo[g,h,i]perylene	Ave	0.9782	0.8921	0.0000	18200	20000	-8.8	20.0
o-Terphenyl	Ave	0.5725	0.5744	0.0000	20100	20000	0.3	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\1AE07003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 07-MAY-2013 12:34
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\a-bFASTPAHi-m.m
Meth Date : 07-May-2013 13:04 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.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	2.544	2.544	(1.000)	1567038	40.0000	
*	6 Acenaphthene-d10	164	3.575	3.575	(1.000)	791444	40.0000	
*	10 Phenanthrene-d10	188	4.526	4.526	(1.000)	1382047	40.0000	
$	14 o-Terphenyl	230	4.820	4.820	(1.065)	396940	20.0000	20.0676
*	18 Chrysene-d12	240	6.545	6.545	(1.000)	1280470	40.0000	
*	23 Perylene-d12	264	7.630	7.630	(1.000)	1180356	40.0000	
	2 Naphthalene	128	2.555	2.555	(1.004)	743579	20.0000	20.1498
	3 2-Methylnaphthalene	141	2.961	2.961	(1.164)	389371	20.0000	20.7616
	4 1-Methylnaphthalene	142	3.014	3.014	(1.185)	459789	20.0000	20.4540
	5 Acenaphthylene	152	3.484	3.484	(0.975)	781586	20.0000	21.0165
	7 Acenaphthene	154	3.591	3.591	(1.004)	398038	20.0000	18.6373
	9 Fluorene	166	3.906	3.906	(1.093)	512308	20.0000	21.0491
	11 Phenanthrene	178	4.537	4.537	(1.002)	675769	20.0000	19.7367
	12 Anthracene	178	4.574	4.574	(1.011)	749400	20.0000	20.5469
	13 Carbazole	167	4.707	4.707	(1.040)	661024	20.0000	20.1574
	15 Fluoranthene	202	5.402	5.402	(1.194)	821545	20.0000	20.8571
	16 Pyrene	202	5.568	5.568	(0.851)	867920	20.0000	21.0869
	17 Benzo(a)anthracene	228	6.529	6.529	(0.998)	689217	20.0000	19.1519
	19 Chrysene	228	6.561	6.561	(1.002)	790167	20.0000	19.5149
	20 Benzo(b)fluoranthene	252	7.352	7.352	(0.964)	552235	20.0000	17.7005
	21 Benzo(k)fluoranthene	252	7.373	7.373	(0.966)	852945	20.0000	22.0372
	22 Benzo(a)pyrene	252	7.576	7.576	(0.993)	663456	20.0000	20.7064
	24 Indeno(1,2,3-cd)pyrene	276	8.388	8.388	(1.099)	535876	20.0000	19.9639(M)
	25 Dibenzo(a,h)anthracene	278	8.410	8.410	(1.102)	504983	20.0000	18.3530
	26 Benzo(g,h,i)perylene	276	8.602	8.602	(1.127)	526493	20.0000	18.2400(M)

QC Flag Legend

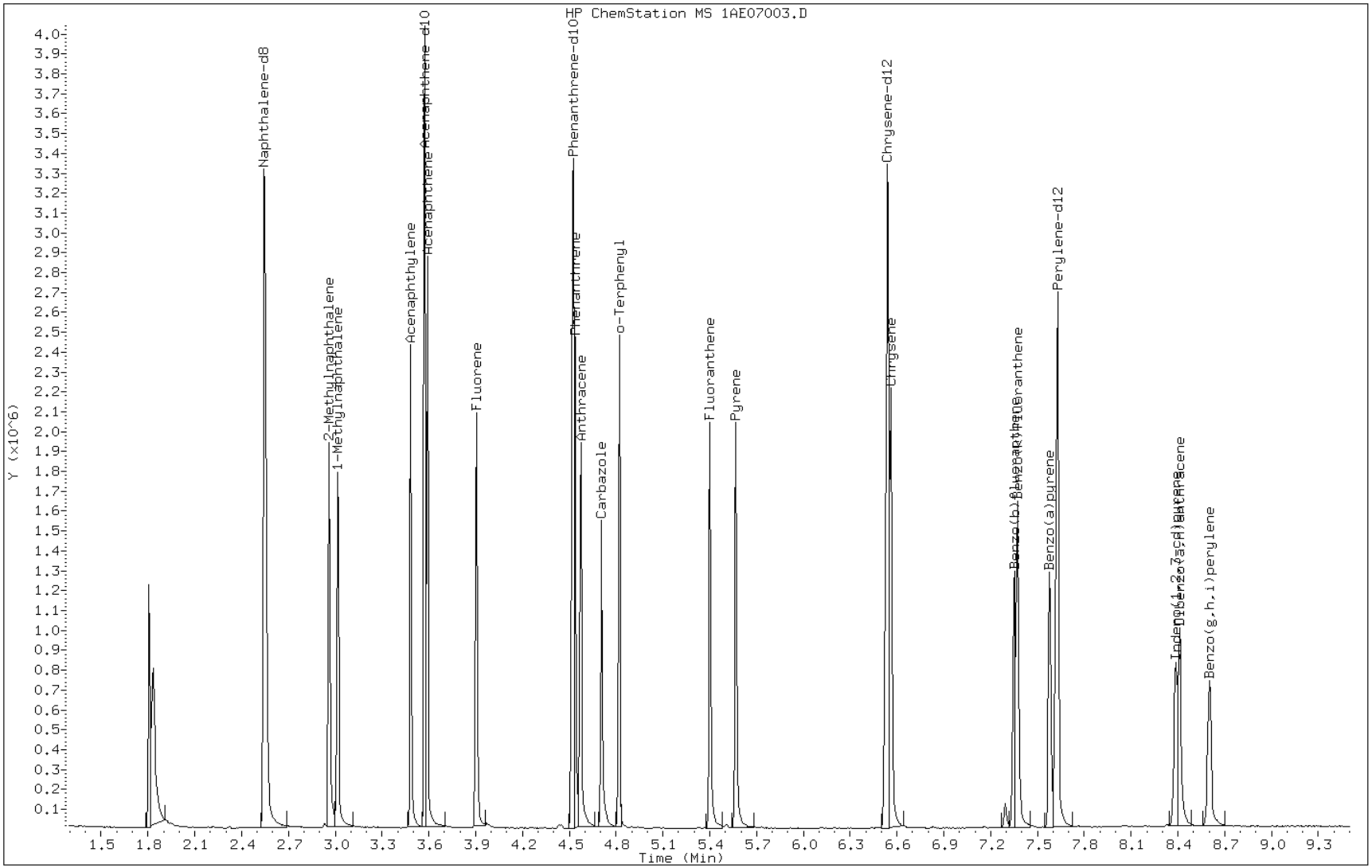
M - Compound response manually integrated.

Data File: 1AE07003.D

Date: 07-MAY-2013 12:34

Client ID: Instrument: BSMA5973.i

Sample Info: CCVIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1AE07003.D
Inj. Date and Time: 07-MAY-2013 12:34
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/07/2013

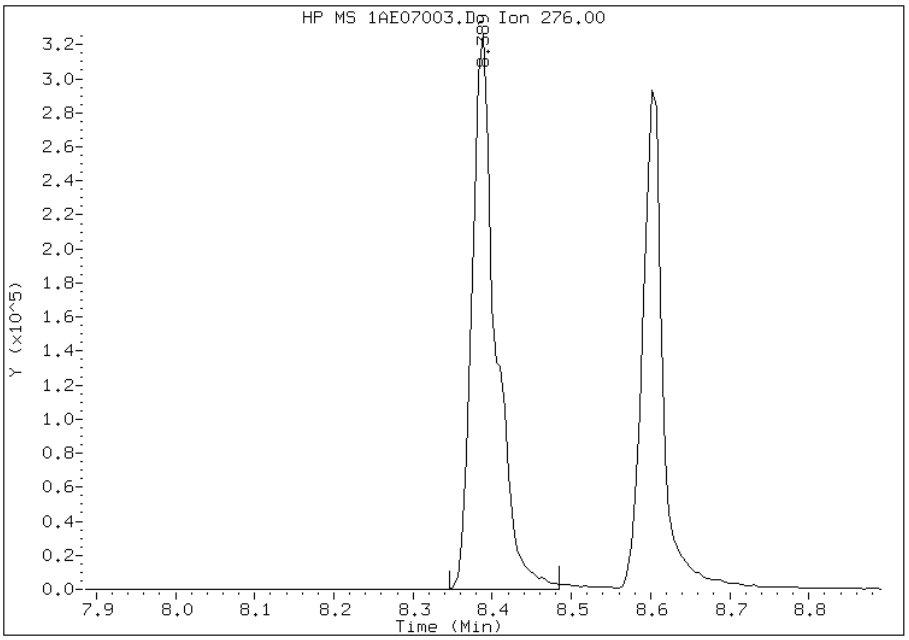
Processing Integration Results

RT: 8.39

Response: 678336

Amount: 25

Conc: 25



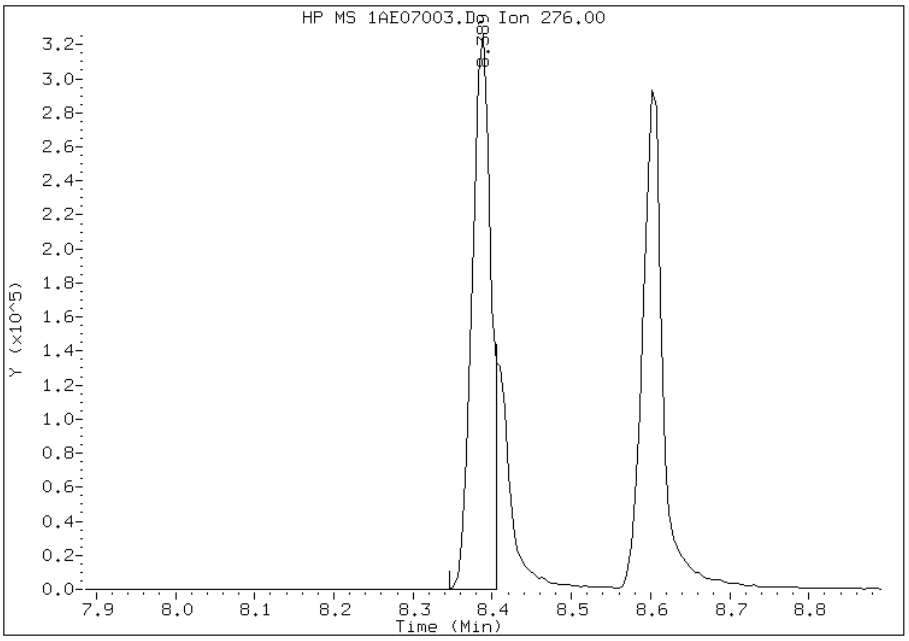
Manual Integration Results

RT: 8.39

Response: 535876

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 07-May-2013 13:04
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE07003.D
Inj. Date and Time: 07-MAY-2013 12:34
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/07/2013

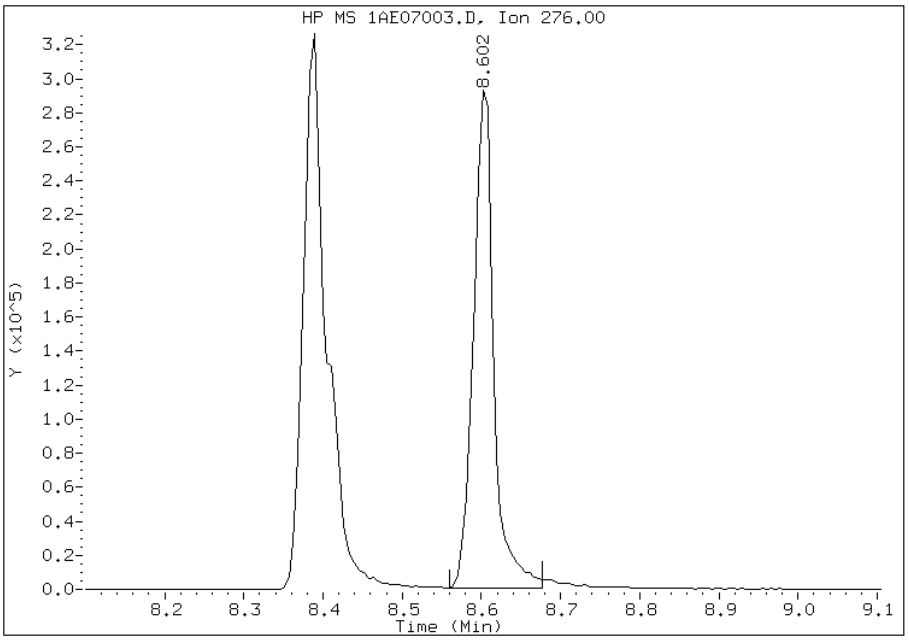
Processing Integration Results

RT: 8.60

Response: 513382

Amount: 18

Conc: 18



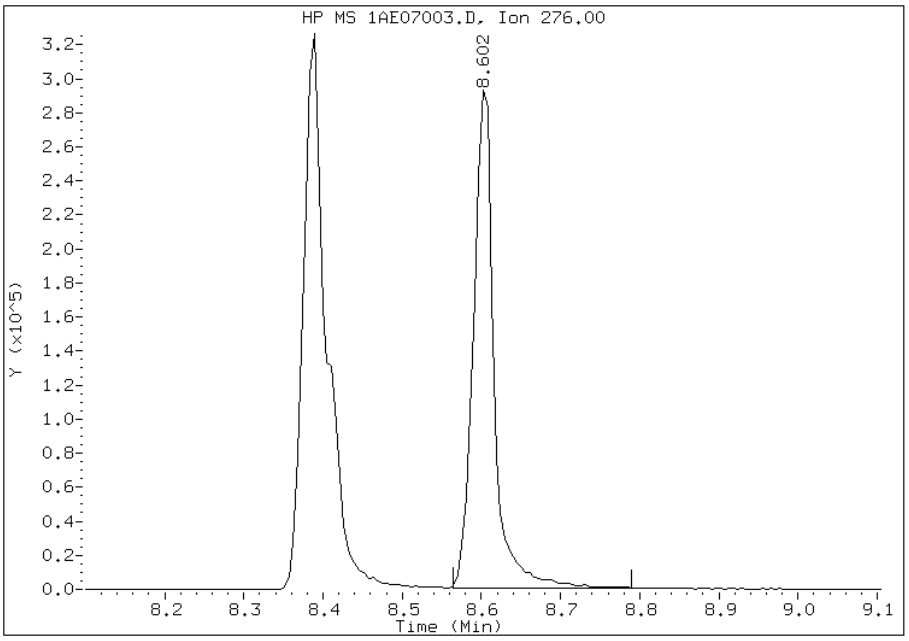
Manual Integration Results

RT: 8.60

Response: 526493

Amount: 18

Conc: 18



Manually Integrated By: cantins
Modification Date: 07-May-2013 13:04
Manual Integration Reason: Baseline Event

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Lab Sample ID: CCVIS 660-137292/3 Calibration Date: 05/08/2013 14:31

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: 1AE08003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9420	0.9341	0.0000	19800	20000	-0.8	20.0
2-Methylnaphthalene	Ave	0.4787	0.4888	0.0000	20400	20000	2.1	20.0
1-Methylnaphthalene	Ave	0.5738	0.5693	0.0000	19800	20000	-0.8	20.0
Acenaphthylene	Ave	1.880	1.944	0.0000	20700	20000	3.5	20.0
Acenaphthene	Ave	1.079	0.9861	0.0000	18300	20000	-8.6	20.0
Fluorene	Ave	1.230	1.206	0.0000	19600	20000	-2.0	20.0
Phenanthrene	Ave	0.9910	0.9845	0.0000	19900	20000	-0.7	20.0
Anthracene	Ave	1.056	1.086	0.0000	20600	20000	2.9	20.0
Carbazole	Ave	0.9491	0.9155	0.0000	19300	20000	-3.5	20.0
Fluoranthene	Ave	1.140	1.147	0.0000	20100	20000	0.6	20.0
Pyrene	Ave	1.286	1.382	0.0000	21500	20000	7.5	20.0
Benzo[a]anthracene	Ave	1.124	1.039	0.0000	18500	20000	-7.6	20.0
Chrysene	Ave	1.265	1.250	0.0000	19800	20000	-1.2	20.0
Benzo[b]fluoranthene	Ave	1.057	0.9768	0.0000	18500	20000	-7.6	20.0
Benzo[k]fluoranthene	Ave	1.312	1.446	0.0000	22000	20000	10.2	20.0
Benzo[a]pyrene	Ave	1.086	1.101	0.0000	20300	20000	1.4	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9096	0.8581	0.0000	18900	20000	-5.7	20.0
Dibenz(a,h)anthracene	Ave	0.9324	0.8704	0.0000	18700	20000	-6.7	20.0
Benzo[g,h,i]perylene	Ave	0.9782	0.9018	0.0000	18400	20000	-7.8	20.0
o-Terphenyl	Ave	0.5725	0.5696	0.0000	19900	20000	-0.5	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050813.b\1AE08003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 08-MAY-2013 14:31
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050813.b\a-bFASTPAHi-m.m
Meth Date : 08-May-2013 14:46 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
* 1 Naphthalene-d8	136	2.541	2.541	(1.000)	1248061	40.0000	
* 6 Acenaphthene-d10	164	3.572	3.572	(1.000)	640327	40.0000	
* 10 Phenanthrene-d10	188	4.523	4.523	(1.000)	1071156	40.0000	
$ 14 o-Terphenyl	230	4.817	4.817	(1.065)	305046	20.0000	19.8978
* 18 Chrysene-d12	240	6.542	6.542	(1.000)	928886	40.0000	
* 23 Perylene-d12	264	7.632	7.632	(1.000)	792941	40.0000	
2 Naphthalene	128	2.552	2.552	(1.004)	582897	20.0000	19.8326
3 2-Methylnaphthalene	141	2.958	2.958	(1.164)	305050	20.0000	20.4226
4 1-Methylnaphthalene	142	3.011	3.011	(1.185)	355255	20.0000	19.8428
5 Acenaphthylene	152	3.481	3.481	(0.975)	622536	20.0000	20.6902
7 Acenaphthene	154	3.588	3.588	(1.004)	315714	20.0000	18.2713
9 Fluorene	166	3.903	3.903	(1.093)	386108	20.0000	19.6078
11 Phenanthrene	178	4.534	4.534	(1.002)	527250	20.0000	19.8684
12 Anthracene	178	4.571	4.571	(1.011)	581651	20.0000	20.5762
13 Carbazole	167	4.705	4.705	(1.040)	490330	20.0000	19.2919
15 Fluoranthene	202	5.399	5.399	(1.194)	614505	20.0000	20.1288
16 Pyrene	202	5.565	5.565	(0.851)	641727	20.0000	21.4926
17 Benzo(a)anthracene	228	6.526	6.526	(0.998)	482460	20.0000	18.4810
19 Chrysene	228	6.558	6.558	(1.002)	580429	20.0000	19.7608
20 Benzo(b)fluoranthene	252	7.349	7.349	(0.963)	387269	20.0000	18.4776
21 Benzo(k)fluoranthene	252	7.370	7.370	(0.966)	573138	20.0000	22.0427
22 Benzo(a)pyrene	252	7.579	7.579	(0.993)	436425	20.0000	20.2756
24 Indeno(1,2,3-cd)pyrene	276	8.396	8.396	(1.100)	340200	20.0000	18.8663(M)
25 Dibenzo(a,h)anthracene	278	8.418	8.418	(1.103)	345093	20.0000	18.6698(M)
26 Benzo(g,h,i)perylene	276	8.610	8.610	(1.128)	357523	20.0000	18.4378(M)

QC Flag Legend

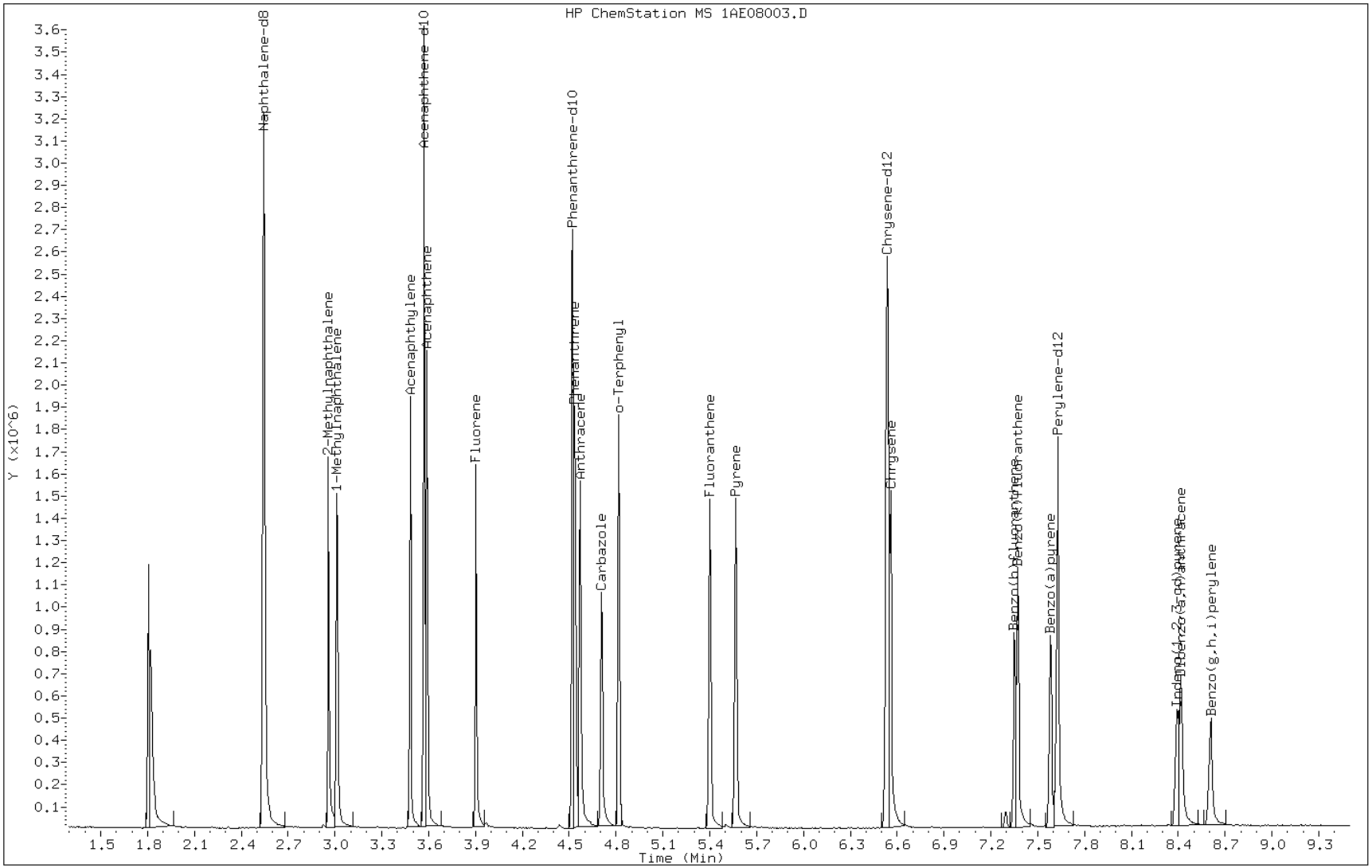
M - Compound response manually integrated.

Data File: 1AE08003.D

Date: 08-MAY-2013 14:31

Client ID: Instrument: BSMA5973.i

Sample Info: CCVIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1AE08003.D
Inj. Date and Time: 08-MAY-2013 14:31
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

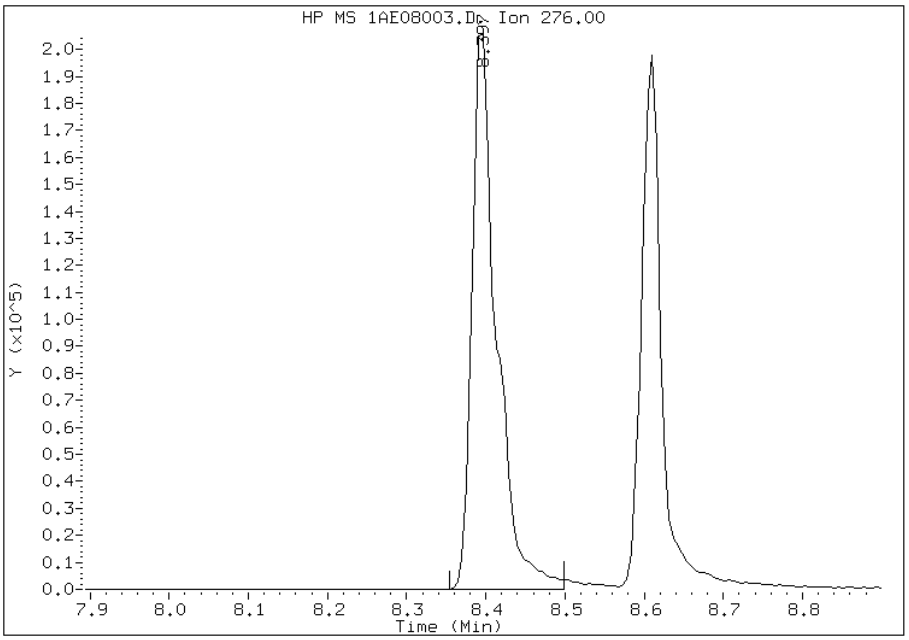
Processing Integration Results

RT: 8.40

Response: 441252

Amount: 24

Conc: 24



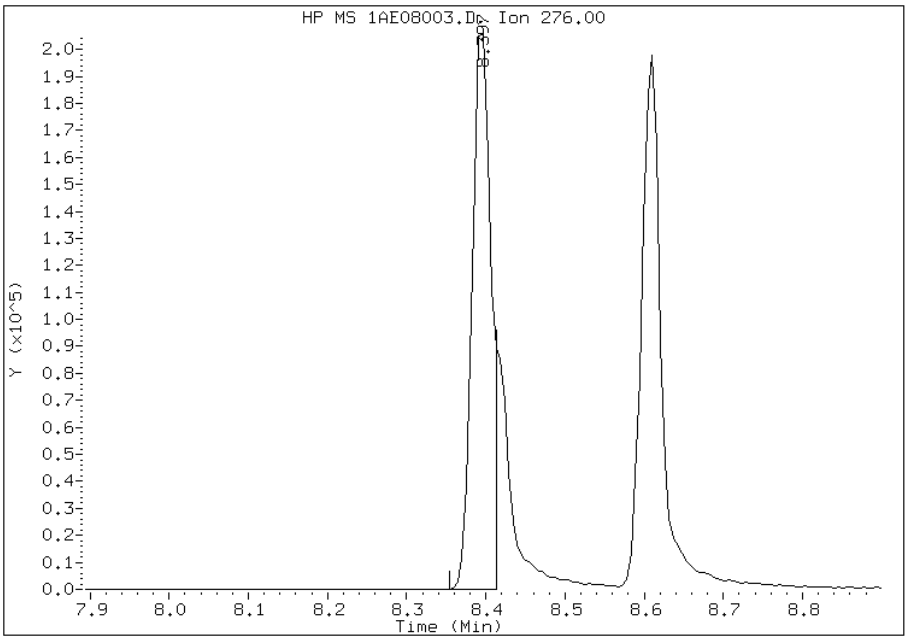
Manual Integration Results

RT: 8.40

Response: 340200

Amount: 19

Conc: 19



Manually Integrated By: cantins
Modification Date: 08-May-2013 14:47
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE08003.D
Inj. Date and Time: 08-MAY-2013 14:31
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/09/2013

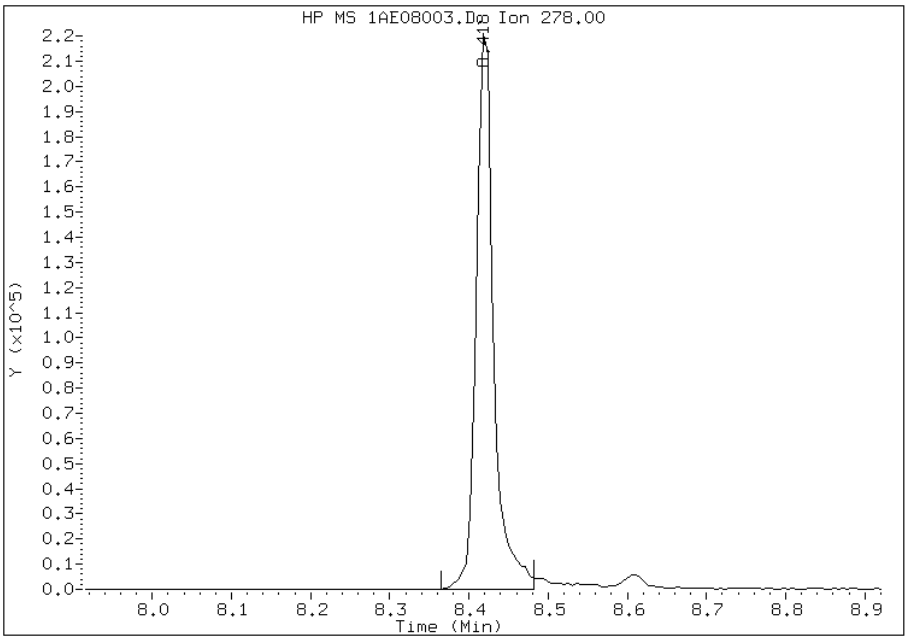
Processing Integration Results

RT: 8.42

Response: 335498

Amount: 18

Conc: 18



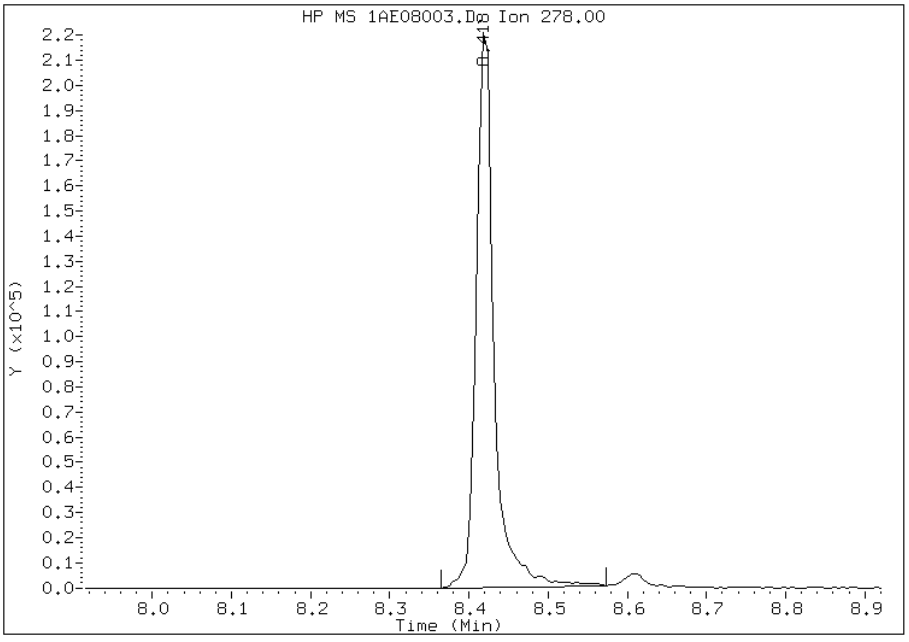
Manual Integration Results

RT: 8.42

Response: 345093

Amount: 19

Conc: 19



Manually Integrated By: cantins
Modification Date: 08-May-2013 14:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE08003.D
Inj. Date and Time: 08-MAY-2013 14:31
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/09/2013

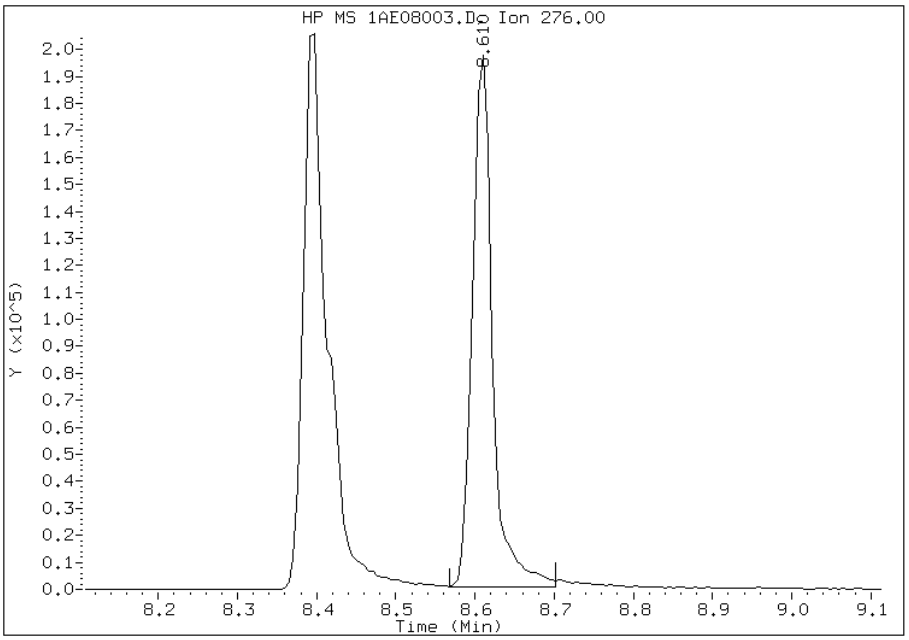
Processing Integration Results

RT: 8.61

Response: 343442

Amount: 18

Conc: 18



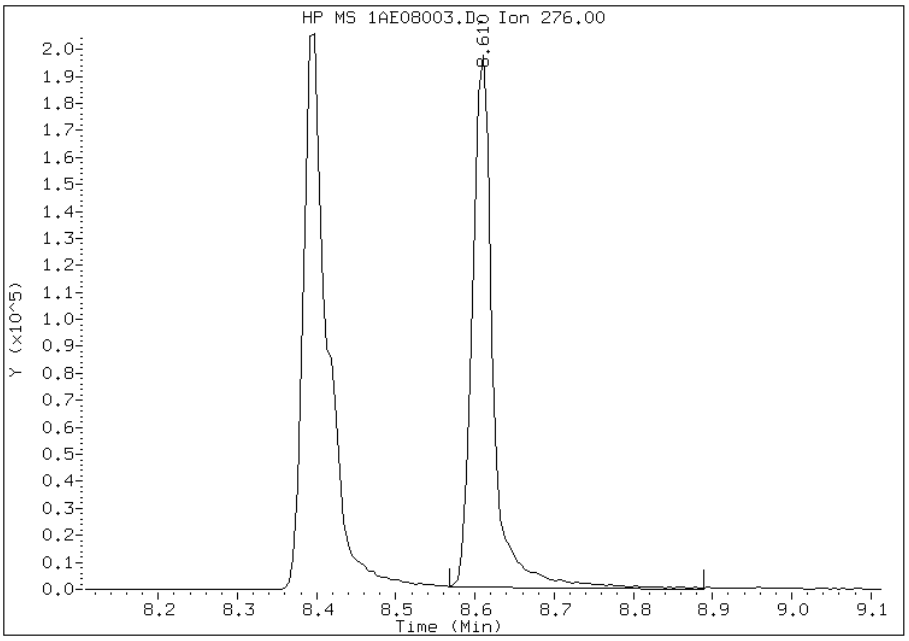
Manual Integration Results

RT: 8.61

Response: 357523

Amount: 18

Conc: 18



Manually Integrated By: cantins
Modification Date: 08-May-2013 14:47
Manual Integration Reason: Baseline Event

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Lab Sample ID: CCVIS 660-137283/4 Calibration Date: 05/09/2013 10:56

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: 1AE09004.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9420	0.9416	0.0000	20000	20000	-0.0	20.0
2-Methylnaphthalene	Ave	0.4787	0.4940	0.0000	20600	20000	3.2	20.0
1-Methylnaphthalene	Ave	0.5738	0.5576	0.0000	19400	20000	-2.8	20.0
Acenaphthylene	Ave	1.880	1.988	0.0000	21200	20000	5.8	20.0
Acenaphthene	Ave	1.079	1.010	0.0000	18700	20000	-6.4	20.0
Fluorene	Ave	1.230	1.274	0.0000	20700	20000	3.6	20.0
Phenanthrene	Ave	0.9910	0.9916	0.0000	20000	20000	0.0	20.0
Anthracene	Ave	1.056	1.087	0.0000	20600	20000	3.0	20.0
Carbazole	Ave	0.9491	0.9300	0.0000	19600	20000	-2.0	20.0
Fluoranthene	Ave	1.140	1.162	0.0000	20400	20000	1.9	20.0
Pyrene	Ave	1.286	1.350	0.0000	21000	20000	5.0	20.0
Benzo[a]anthracene	Ave	1.124	1.062	0.0000	18900	20000	-5.6	20.0
Chrysene	Ave	1.265	1.179	0.0000	18600	20000	-6.8	20.0
Benzo[b]fluoranthene	Ave	1.057	1.056	0.0000	20000	20000	-0.2	20.0
Benzo[k]fluoranthene	Ave	1.312	1.353	0.0000	20600	20000	3.1	20.0
Benzo[a]pyrene	Ave	1.086	1.020	0.0000	18800	20000	-6.1	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9096	1.010	0.0000	22200	20000	11.0	20.0
Dibenz(a,h)anthracene	Ave	0.9324	0.9615	0.0000	20600	20000	3.1	20.0
Benzo[g,h,i]perylene	Ave	0.9782	1.011	0.0000	20700	20000	3.4	20.0
o-Terphenyl	Ave	0.5725	0.5861	0.0000	20500	20000	2.4	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050913.b\1AE09004.D
Lab Smp Id: CCVIS-1531401
Inj Date : 09-MAY-2013 10:56
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050913.b\a-bFASTPAHi-m.m
Meth Date : 09-May-2013 11:07 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.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	2.543	2.543	(1.000)	1229116	40.0000	
*	6 Acenaphthene-d10	164	3.574	3.574	(1.000)	604439	40.0000	
*	10 Phenanthrene-d10	188	4.520	4.520	(1.000)	1023634	40.0000	
$	14 o-Terphenyl	230	4.819	4.819	(1.066)	299972	20.0000	20.4752
*	18 Chrysene-d12	240	6.539	6.539	(1.000)	901534	40.0000	
*	23 Perylene-d12	264	7.634	7.634	(1.000)	671595	40.0000	
	2 Naphthalene	128	2.554	2.554	(1.004)	578635	20.0000	19.9910
	3 2-Methylnaphthalene	141	2.960	2.960	(1.164)	303560	20.0000	20.6361
	4 1-Methylnaphthalene	142	3.013	3.013	(1.185)	342690	20.0000	19.4360
	5 Acenaphthylene	152	3.484	3.484	(0.975)	600716	20.0000	21.1504
	7 Acenaphthene	154	3.590	3.590	(1.004)	305219	20.0000	18.7127
	9 Fluorene	166	3.906	3.906	(1.093)	385005	20.0000	20.7127
	11 Phenanthrene	178	4.536	4.536	(1.004)	507514	20.0000	20.0126
	12 Anthracene	178	4.573	4.573	(1.012)	556299	20.0000	20.5930
	13 Carbazole	167	4.707	4.707	(1.041)	475963	20.0000	19.5961
	15 Fluoranthene	202	5.401	5.401	(1.195)	594473	20.0000	20.3767
	16 Pyrene	202	5.567	5.567	(0.851)	608454	20.0000	20.9965
	17 Benzo(a)anthracene	228	6.534	6.534	(0.999)	478534	20.0000	18.8867
	19 Chrysene	228	6.561	6.561	(1.003)	531620	20.0000	18.6482
	20 Benzo(b)fluoranthene	252	7.351	7.351	(0.963)	354461	20.0000	19.9680
	21 Benzo(k)fluoranthene	252	7.373	7.373	(0.966)	454265	20.0000	20.6276
	22 Benzo(a)pyrene	252	7.581	7.581	(0.993)	342368	20.0000	18.7798
	24 Indeno(1,2,3-cd)pyrene	276	8.398	8.398	(1.100)	339098	20.0000	22.2030
	25 Dibenzo(a,h)anthracene	278	8.425	8.425	(1.104)	322880	20.0000	20.6243(M)
	26 Benzo(g,h,i)perylene	276	8.617	8.617	(1.129)	339509	20.0000	20.6723

QC Flag Legend

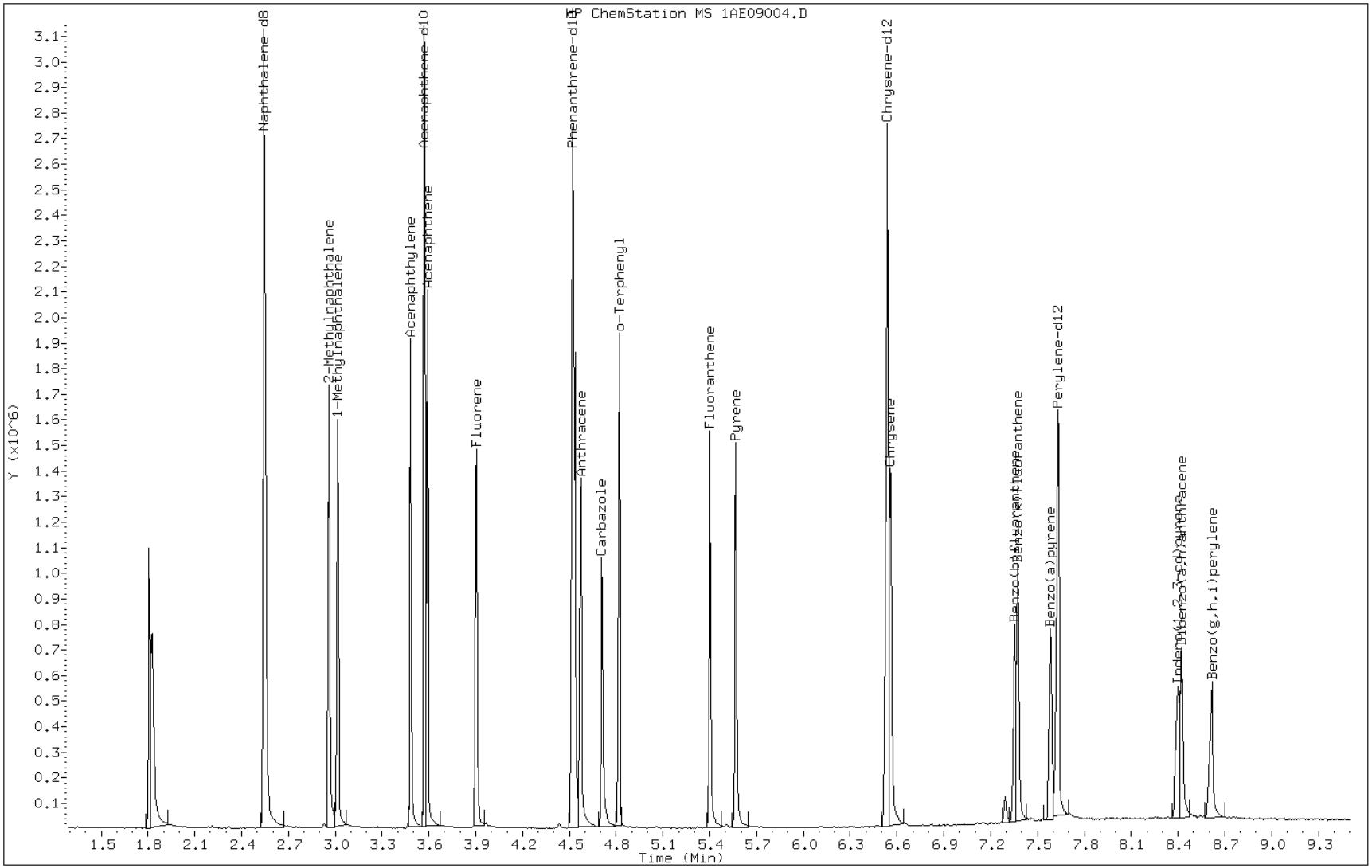
M - Compound response manually integrated.

Data File: 1AE09004.D

Date: 09-MAY-2013 10:56

Client ID: Instrument: BSMA5973.i

Sample Info: CCVIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1AE09004.D
Inj. Date and Time: 09-MAY-2013 10:56
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/09/2013

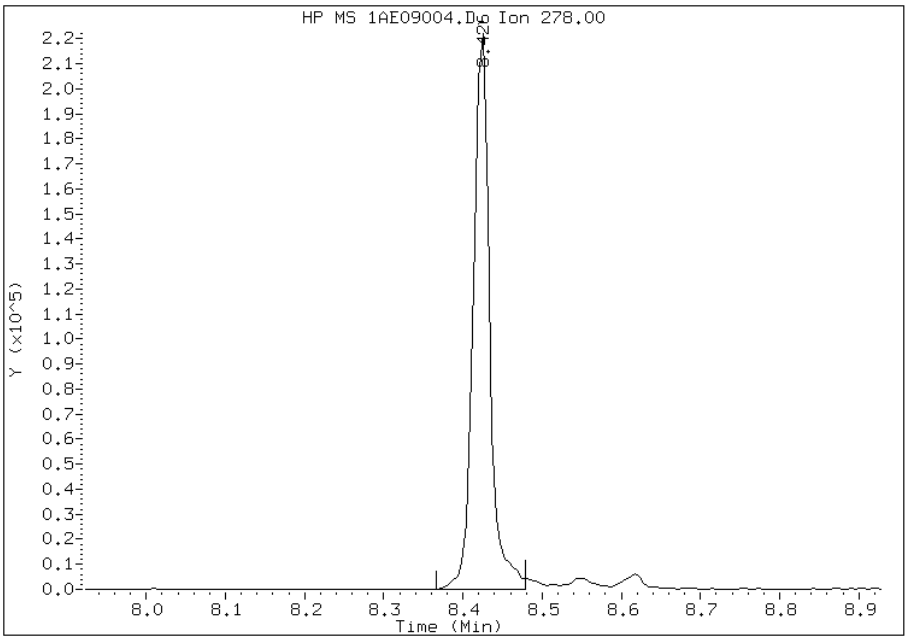
Processing Integration Results

RT: 8.43

Response: 318934

Amount: 20

Conc: 20



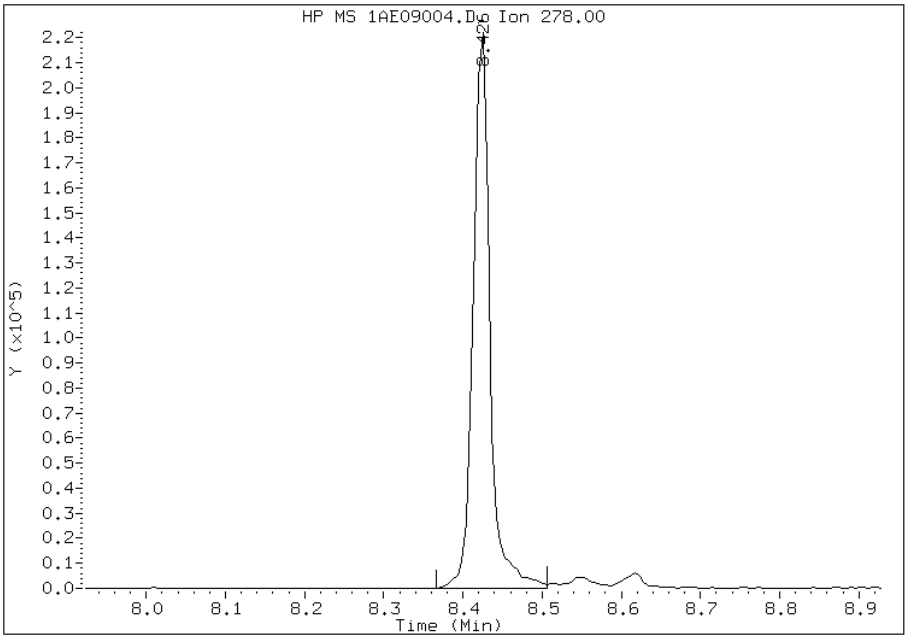
Manual Integration Results

RT: 8.43

Response: 322880

Amount: 21

Conc: 21



Manually Integrated By: cantins
Modification Date: 09-May-2013 11:08
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	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

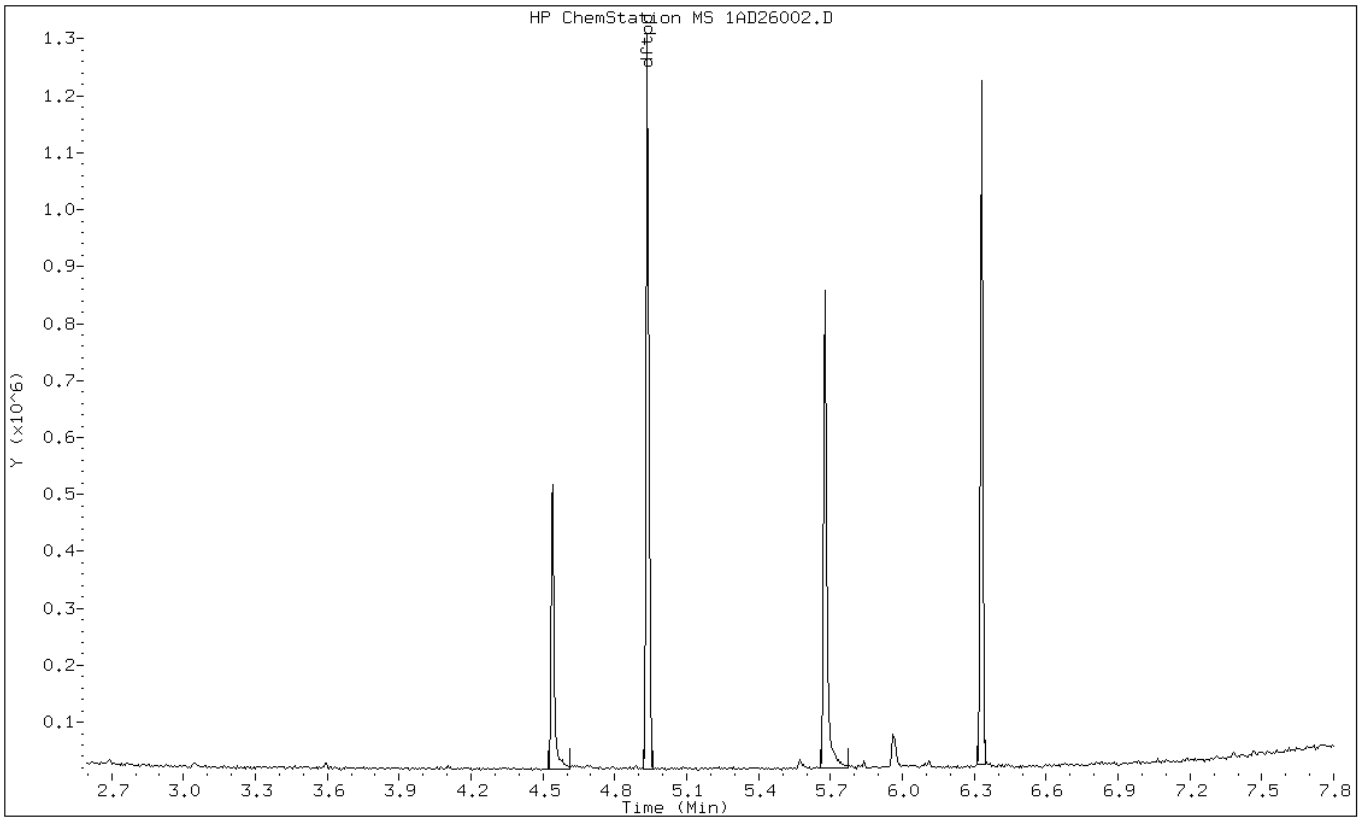
Date: 26-APR-2013 09:50

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC



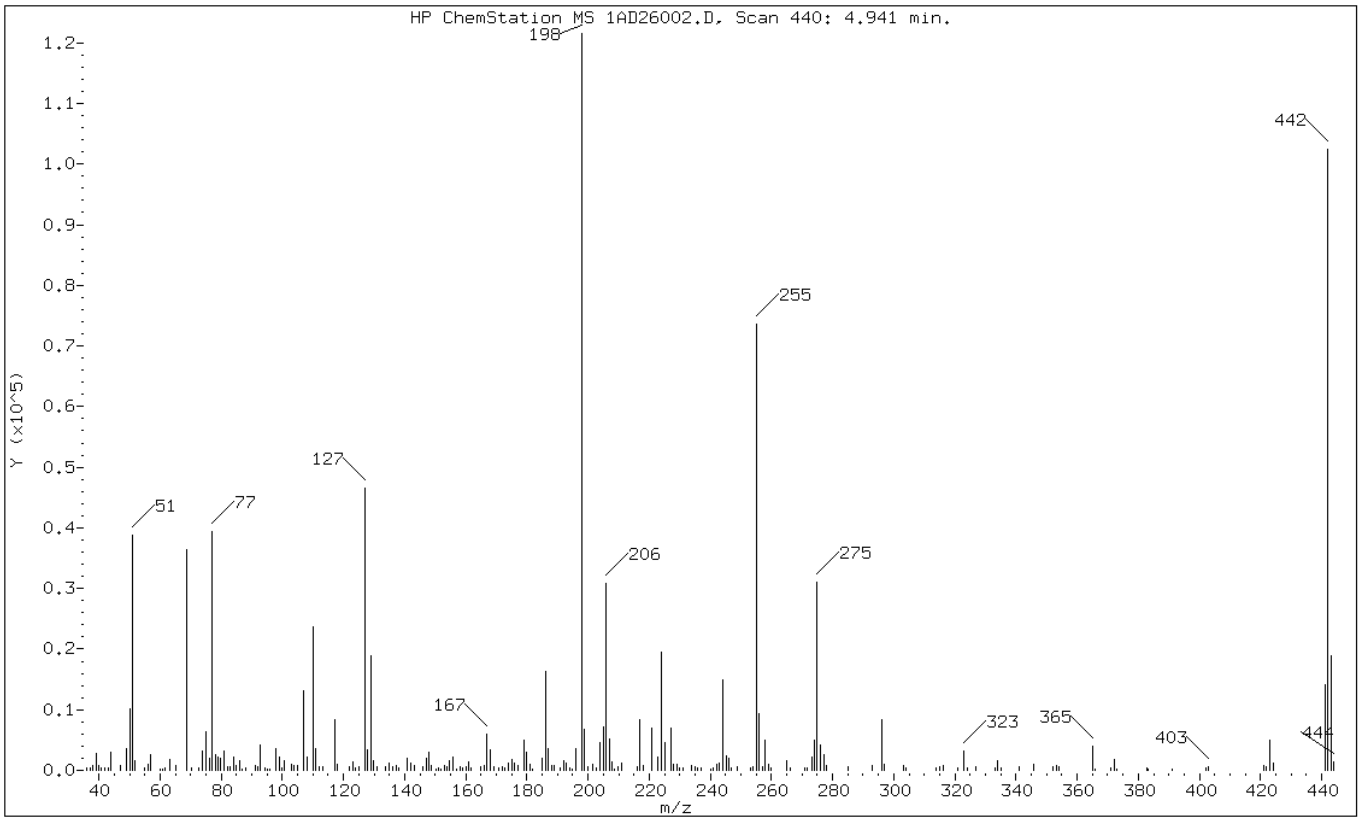
Data File: 1AD26002.D

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\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

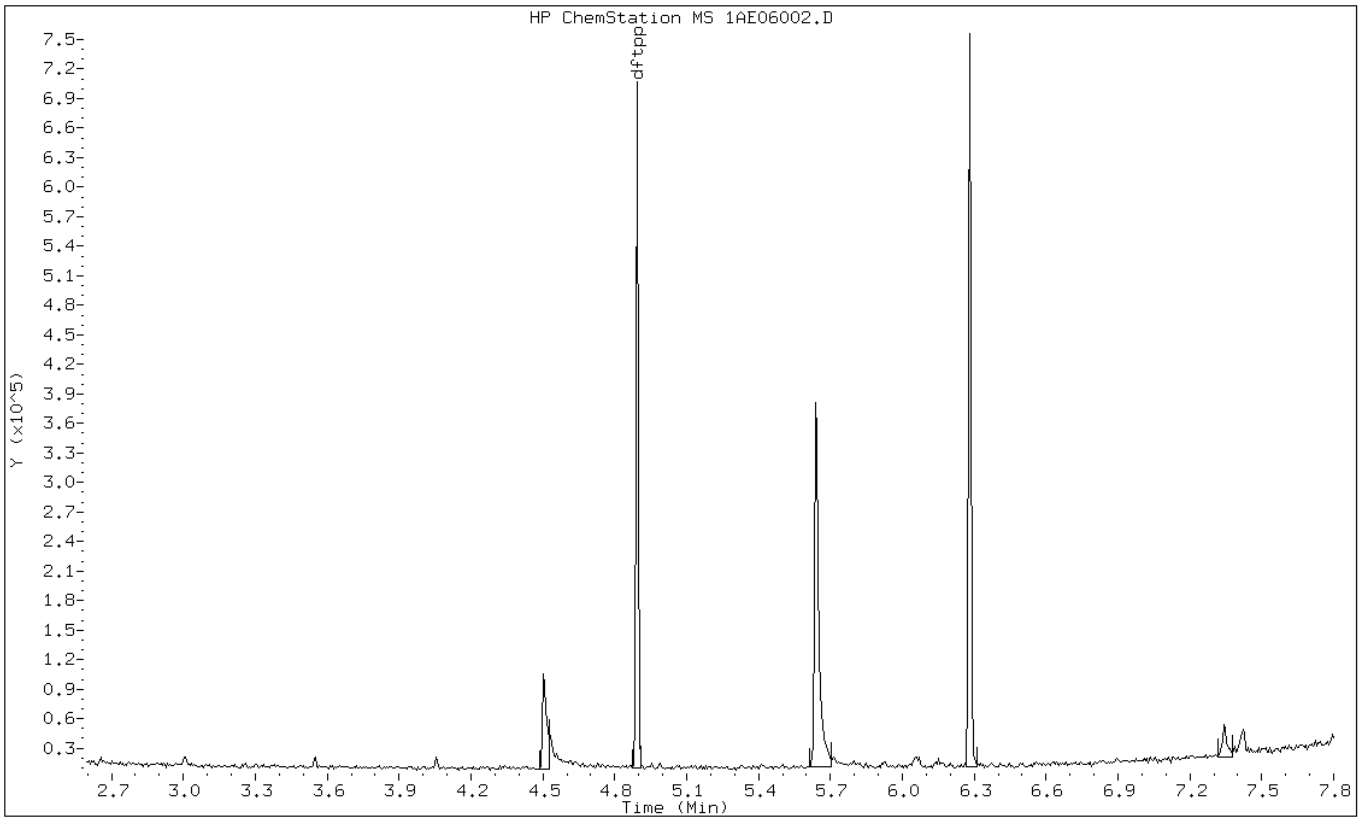
					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.893	4.963	-0.070	198	57528			50.00- 0.00	100.00
4.893	4.963	-0.070	51	21778			10.00- 80.00	37.86
4.893	4.963	-0.070	68	150			0.00- 2.00	0.78
4.893	4.963	-0.070	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



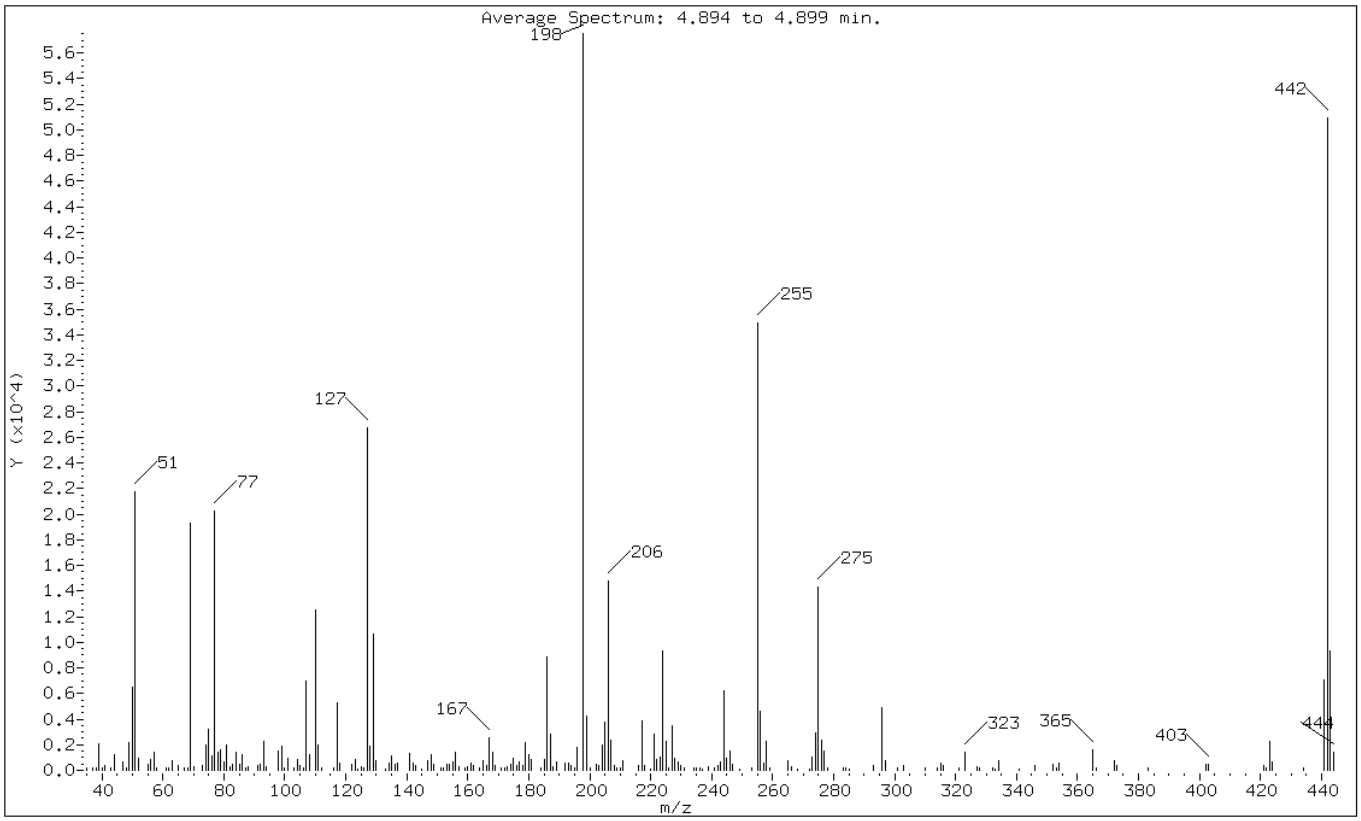
Data File: 1AE06002.D

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\BSMA5973.i\1A050713.b\1AE07002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 07-MAY-2013 12:17
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1525851
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.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

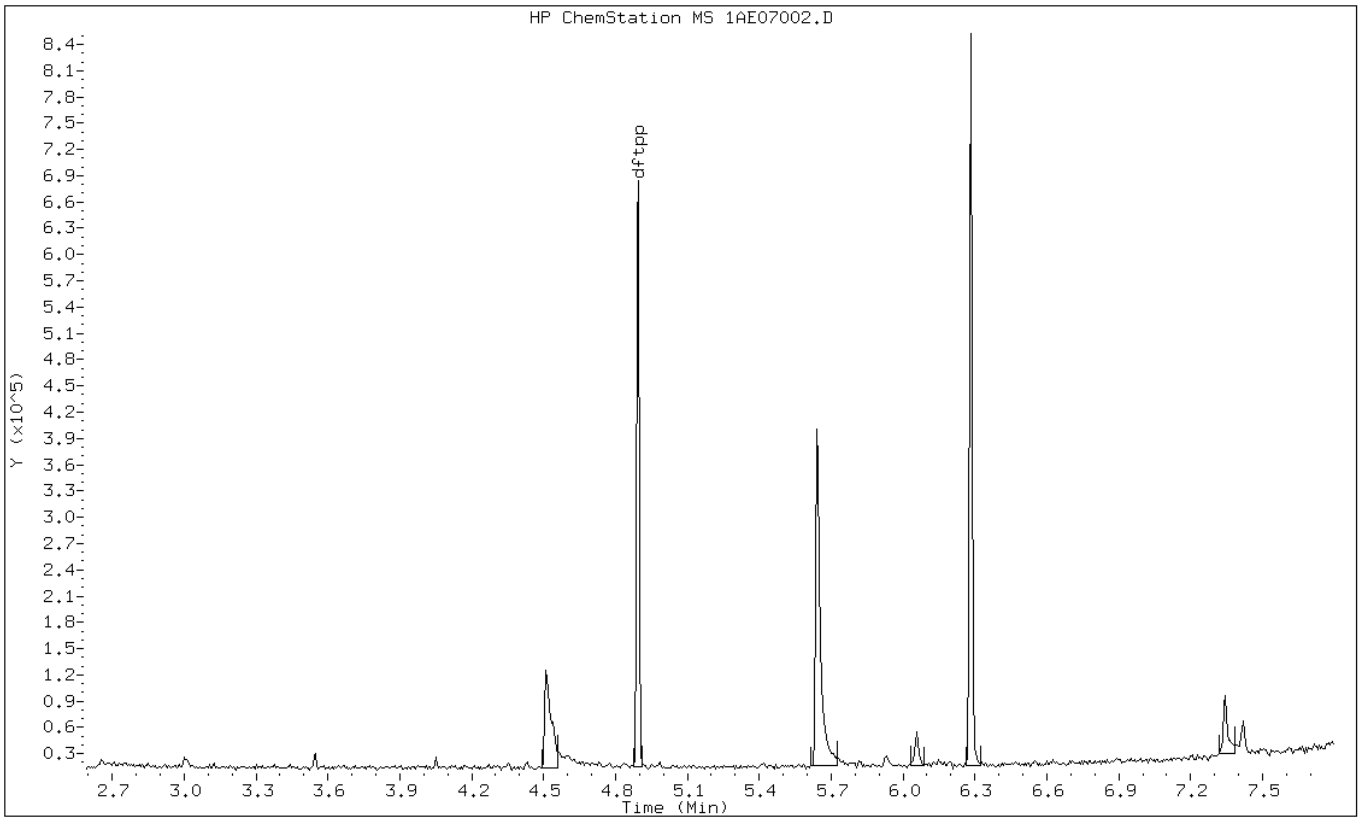
					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.895	4.963	-0.068	198	80696			50.00- 0.00	100.00
4.895	4.963	-0.068	51	27912			10.00- 80.00	34.59
4.895	4.963	-0.068	68	0	0.0	0.0	0.00- 2.00	0.00
4.895	4.963	-0.068	69	24896			0.00- 0.00	30.85
4.895	4.963	-0.068	70	339			0.00- 2.00	1.36
4.895	4.963	-0.068	127	31992			10.00- 80.00	39.65
4.895	4.963	-0.068	197	0	0.0	0.0	0.00- 2.00	0.00
4.895	4.963	-0.068	442	74592			50.00- 0.00	92.44
4.895	4.963	-0.068	199	5463			5.00- 9.00	6.77
4.895	4.963	-0.068	275	19992			10.00- 60.00	24.77
4.895	4.963	-0.068	365	2437			1.00- 0.00	3.02
4.895	4.963	-0.068	441	11288			0.01- 99.99	76.57
4.895	4.963	-0.068	443	14743			15.00- 24.00	19.76

Data File: 1AE07002.D

Date: 07-MAY-2013 12:17

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC



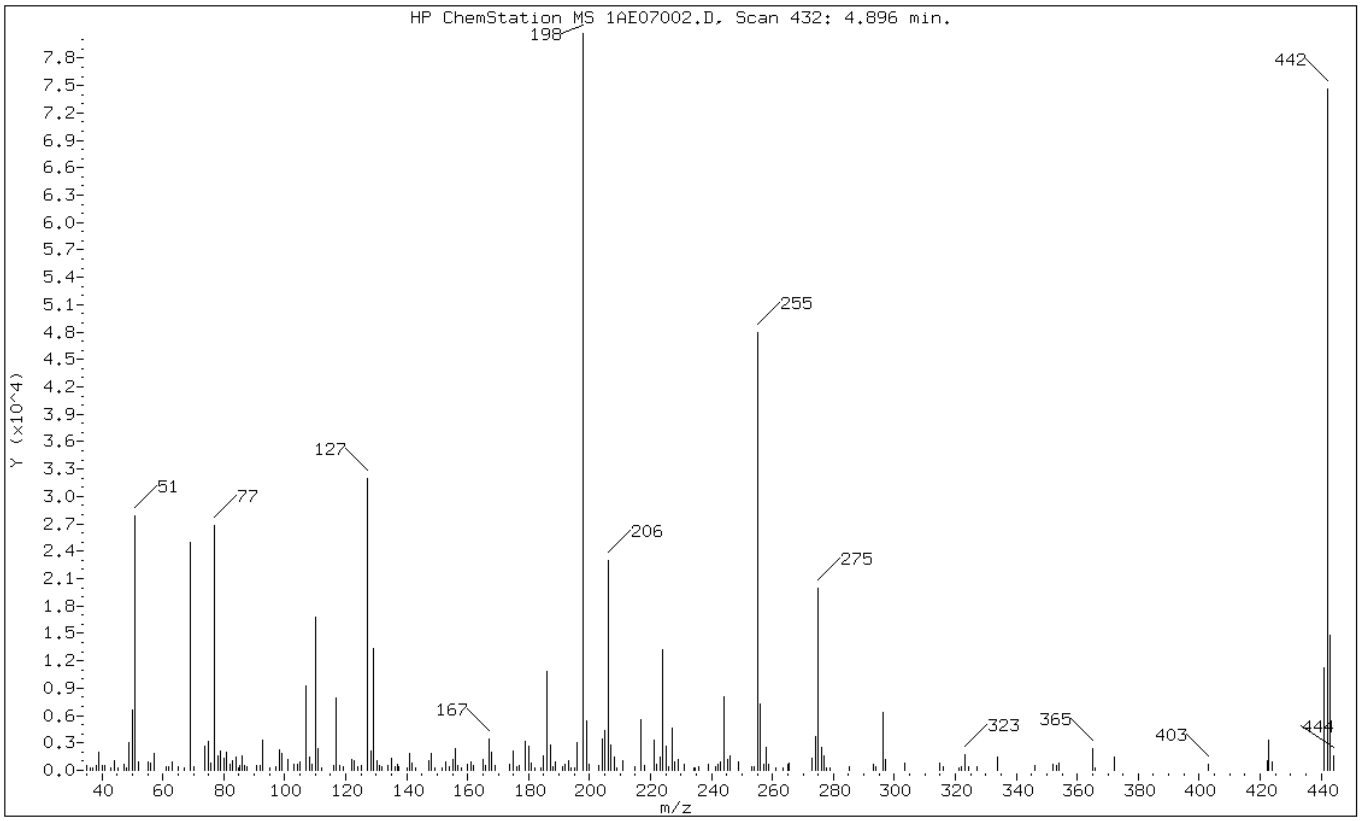
Data File: 1AE07002.D

Date: 07-MAY-2013 12:17

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	34.59
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	30.85
70	Less than 2.00% of mass 69	0.42 (1.36)
127	10.00 - 80.00% of mass 198	39.65
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	92.44
199	5.00 - 9.00% of mass 198	6.77
275	10.00 - 60.00% of mass 198	24.77
365	Greater than 1.00% of mass 198	3.02
441	Present, but less than mass 443	13.99
443	15.00 - 24.00% of mass 442	18.27 (19.76)

Data File: 1AE07002.D

Date: 07-MAY-2013 12:17

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A050713.b\1AE07002.D
Spectrum: HP ChemStation MS 1AE07002.D, Scan 432: 4.896 min.
Location of Maximum: 197.90
Number of points: 203

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	506	104.00	663	176.10	423	245.10	1151
36.00	275	105.00	929	176.90	494	245.90	1618
36.80	281	107.00	9188	179.00	3136	248.90	963
38.00	568	108.00	1491	180.00	2610	253.10	395
39.00	1922	108.90	599	181.00	826	253.80	444
40.00	466	110.00	16792	182.00	300	255.00	47936
41.10	488	111.00	2441	184.20	330	256.00	7219
43.10	320	112.00	327	184.90	1604	257.00	625
44.00	1120	115.90	582	186.00	10799	258.00	2547
45.10	295	117.00	7900	187.00	2741	258.90	599
47.10	628	117.90	594	188.10	428	261.00	275
48.10	306	119.10	340	188.90	891	263.60	272
48.90	3035	122.00	1205	191.00	389	265.00	625
50.00	6659	122.90	1020	191.80	652	265.60	750
51.00	27912	124.00	336	193.00	1040	273.00	1369
52.00	965	125.00	558	194.00	288	274.00	3748
55.10	962	127.00	31992	195.00	261	275.00	19992
56.00	757	128.10	2050	195.90	3016	276.00	2451
57.10	1826	129.00	13319	197.90	80696	277.00	1596
60.90	446	130.10	1101	198.90	5463	277.70	316
62.00	415	130.90	550	199.90	618	279.00	289
62.90	983	132.00	374	202.80	475	285.10	383
64.90	347	133.90	493	203.10	573	293.10	618
66.90	309	135.00	1317	204.00	3384	294.00	365
68.90	24896	136.00	418	205.10	4373	296.10	6279
70.00	339	136.80	625	206.00	22936	297.00	1214
73.90	2607	137.20	436	207.00	2790	303.20	753
75.00	3233	140.20	269	208.00	1412	315.00	767
75.90	737	140.90	1883	208.90	316	316.00	344
77.00	26792	141.90	777	211.00	1028	321.10	260
78.00	1563	142.90	282	215.00	358	322.00	422
78.90	2125	147.20	1104	216.90	5510	323.10	1655
79.90	1368	147.90	1886	217.90	513	324.20	437
80.90	1951	149.20	328	221.00	3260	327.20	392
82.00	629	151.70	263	222.00	695	334.00	1508
83.00	1083	152.80	861	223.00	1514	345.90	557
83.90	1514	153.90	403	224.10	13257	352.10	679
84.70	329	155.00	1138	225.00	2682	353.30	474
85.20	518	156.00	2316	225.90	415	354.00	817
85.90	1616	156.80	491	227.00	4674	364.90	2437

86.90	591	157.90	305	228.00	967	365.90	324
87.70	336	160.10	660	229.00	1128	372.10	1414
90.90	547	160.90	982	231.00	677	403.10	654
92.00	578	161.90	593	234.10	330	422.20	1116
92.90	3237	164.90	1143	234.70	319	422.90	3253
95.10	265	165.90	553	235.90	349	423.90	934
97.20	462	166.90	3498	238.80	610	441.00	11288
98.10	2241	167.90	1929	241.30	421	442.00	74592
98.90	1895	168.90	575	242.00	608	443.00	14743
100.90	1252	173.90	674	243.10	915	444.10	1644
102.90	700	175.00	2058	244.00	8066		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050813.b\1AE08002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 08-MAY-2013 14:11
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1525851
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050813.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

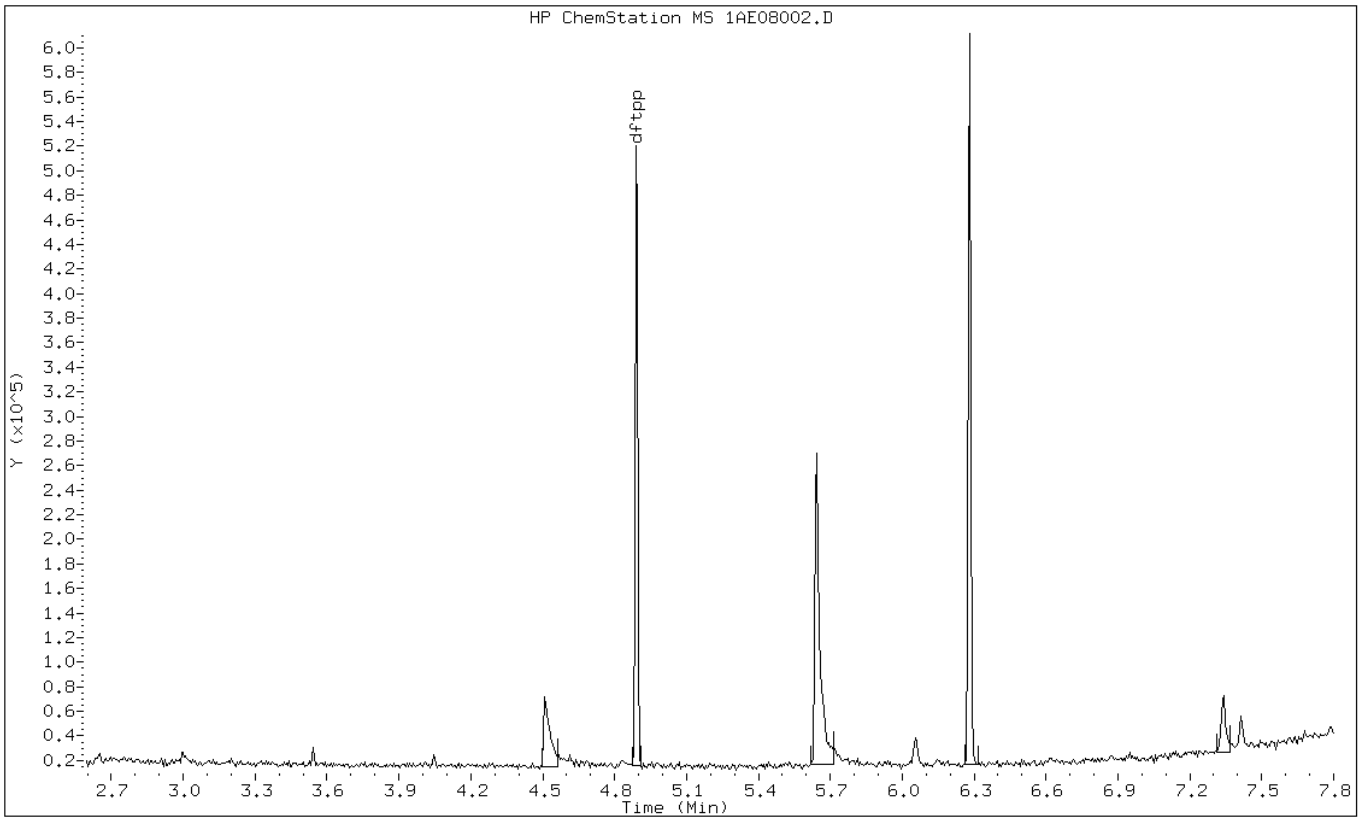
					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.888	4.963	-0.075	198	58192			50.00- 0.00	100.00
4.888	4.963	-0.075	51	31352			10.00- 80.00	53.88
4.888	4.963	-0.075	68	0	0.0	0.0	0.00- 2.00	0.00
4.888	4.963	-0.075	69	25728			0.00- 0.00	44.21
4.888	4.963	-0.075	70	291			0.00- 2.00	1.13
4.888	4.963	-0.075	127	28824			10.00- 80.00	49.53
4.888	4.963	-0.075	197	0	0.0	0.0	0.00- 2.00	0.00
4.888	4.963	-0.075	442	29872			50.00- 0.00	51.33
4.888	4.963	-0.075	199	4880			5.00- 9.00	8.39
4.888	4.963	-0.075	275	13596			10.00- 60.00	23.36
4.888	4.963	-0.075	365	1165			1.00- 0.00	2.00
4.888	4.963	-0.075	441	4072			0.01- 99.99	64.55
4.888	4.963	-0.075	443	6308			15.00- 24.00	21.12

Data File: 1AE08002.D

Date: 08-MAY-2013 14:11

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC



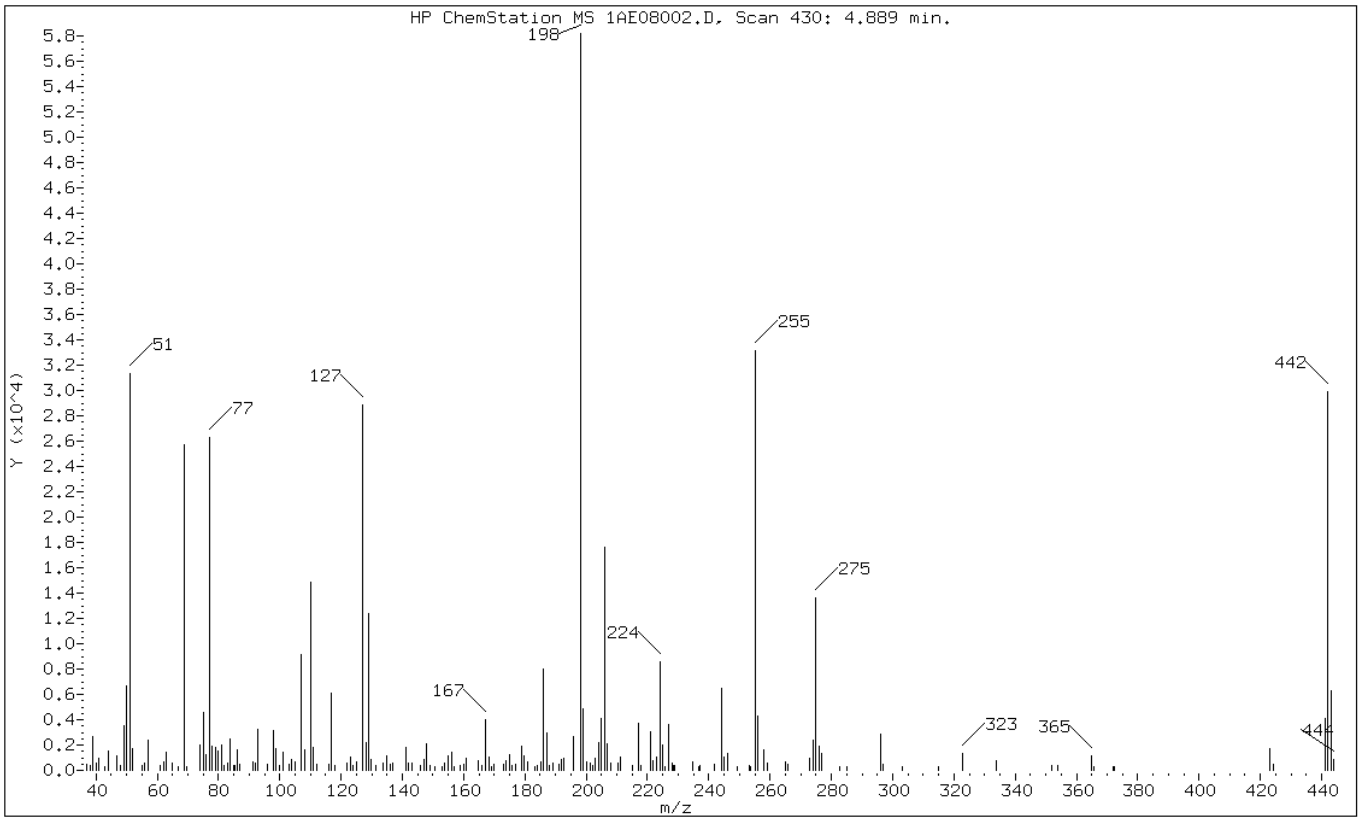
Data File: 1AE08002.D

Date: 08-MAY-2013 14:11

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	53.88
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	44.21
70	Less than 2.00% of mass 69	0.50 (1.13)
127	10.00 - 80.00% of mass 198	49.53
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	51.33
199	5.00 - 9.00% of mass 198	8.39
275	10.00 - 60.00% of mass 198	23.36
365	Greater than 1.00% of mass 198	2.00
441	Present, but less than mass 443	7.00
443	15.00 - 24.00% of mass 442	10.84 (21.12)

Data File: 1AE08002.D

Date: 08-MAY-2013 14:11

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A050813.b\1AE08002.D
Spectrum: HP ChemStation MS 1AE08002.D, Scan 430: 4.889 min.
Location of Maximum: 198.00
Number of points: 179

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	469	101.00	1454	169.20	327	228.50	376
38.10	366	102.90	473	170.00	463	228.70	392
39.10	2672	104.00	900	172.90	445	234.90	681
40.10	599	104.90	682	173.90	756	236.90	291
41.10	938	107.00	9150	174.80	1282	237.30	362
43.00	300	108.00	1573	175.80	354	242.00	468
43.90	1483	110.00	14897	176.80	430	244.00	6507
47.00	1121	111.00	1763	178.90	1871	244.90	1025
47.90	427	112.10	487	179.90	1172	246.00	1325
49.00	3496	116.10	445	180.90	671	249.10	332
50.00	6643	117.00	6090	183.20	287	253.20	354
51.10	31352	117.90	419	184.10	353	253.80	324
52.10	1730	121.80	547	185.10	708	255.00	33120
55.00	404	123.00	1049	186.00	7970	256.00	4311
55.90	534	124.00	372	187.00	2952	258.00	1620
57.00	2408	125.00	639	188.10	335	259.00	585
60.90	368	127.00	28824	189.00	573	264.90	626
62.10	713	128.10	2219	191.00	442	266.00	431
63.00	1439	128.90	12348	192.00	844	273.00	917
65.00	536	129.90	870	192.80	979	274.00	2397
67.00	330	131.20	351	195.90	2625	275.00	13596
68.90	25728	133.90	573	198.00	58192	276.10	1904
69.80	291	134.90	1159	199.00	4880	277.00	1352
74.00	2042	135.90	465	200.10	672	282.90	326
75.00	4543	137.00	542	201.20	603	285.20	283
75.90	1201	141.00	1762	202.00	408	296.00	2857
77.00	26296	142.00	586	203.00	967	296.90	501
78.00	1922	143.10	599	204.00	2209	303.20	304
79.10	1776	146.00	355	205.00	4104	315.10	294
79.90	1489	146.90	844	206.00	17592	323.00	1315
81.00	2047	147.90	2120	207.00	2128	334.00	803
81.90	422	149.00	370	208.10	560	351.80	376
83.10	608	150.70	303	210.30	569	352.00	414
83.90	2507	152.80	326	211.10	1034	353.90	422
84.90	415	153.90	565	214.90	405	365.00	1165
85.20	391	155.10	1166	217.00	3736	365.80	312
86.00	1579	156.20	1450	217.90	413	371.80	331
87.10	469	157.10	318	221.00	3017	372.20	277
91.10	648	158.90	363	221.70	778	423.00	1684
92.10	593	159.90	487	222.80	1045	424.10	429

93.00	3271	161.00	923	224.00	8553	441.10	4072
95.90	443	164.90	745	225.00	1966	442.00	29872
98.00	3145	165.90	394	225.90	292	443.10	6308
98.90	1688	167.00	4030	227.00	3666	443.90	850
99.80	391	168.20	1020	227.90	549		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050913.b\1AE09003.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 09-MAY-2013 10:42
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1525851
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050913.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

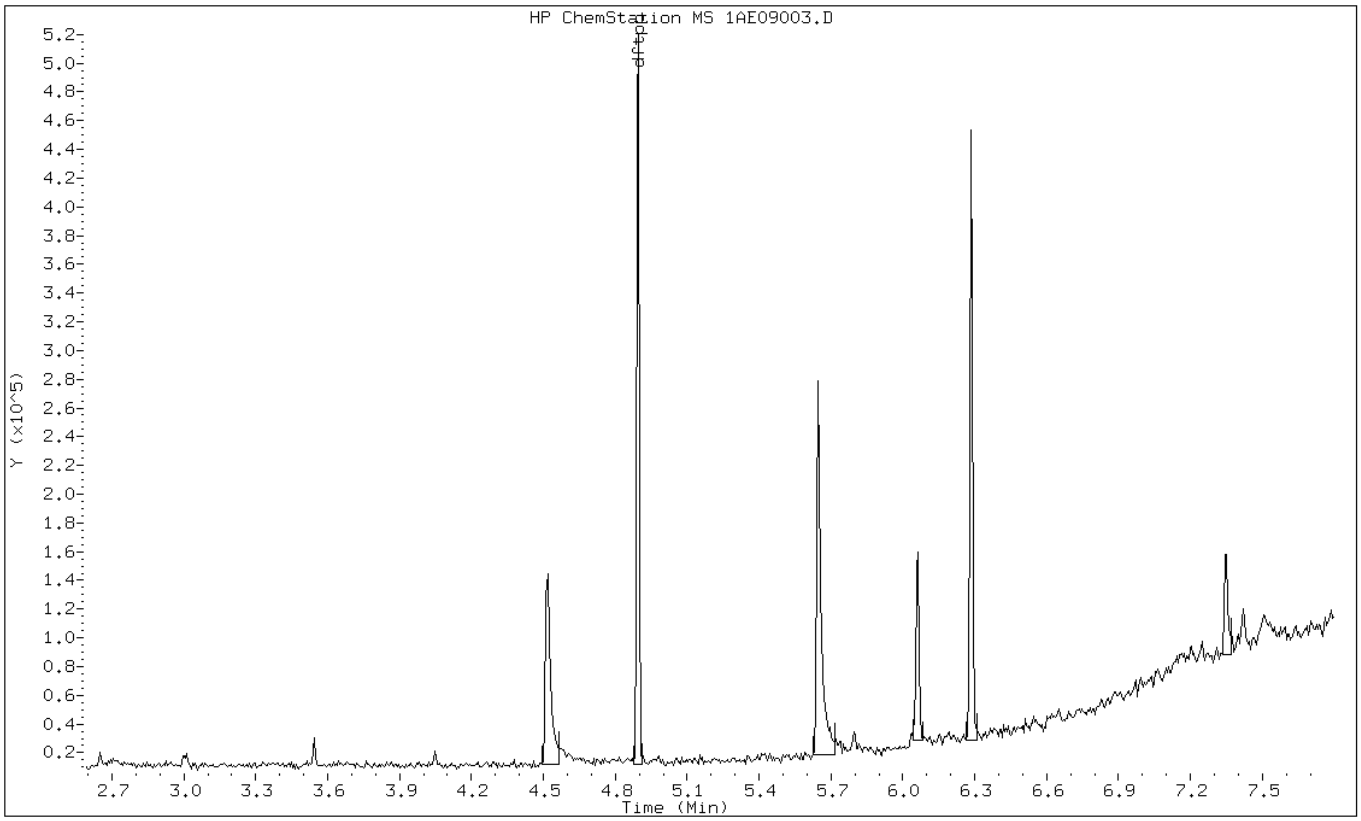
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.896	4.963	-0.067	198	54932			50.00- 0.00	100.00
4.896	4.963	-0.067	51	24348			10.00- 80.00	44.32
4.896	4.963	-0.067	68	356			0.00- 2.00	1.49
4.896	4.963	-0.067	69	23940			0.00- 0.00	43.58
4.896	4.963	-0.067	70	299			0.00- 2.00	1.25
4.896	4.963	-0.067	127	26788			10.00- 80.00	48.77
4.896	4.963	-0.067	197	0	0.0	0.0	0.00- 2.00	0.00
4.896	4.963	-0.067	442	41660			50.00- 0.00	75.84
4.896	4.963	-0.067	199	3570			5.00- 9.00	6.50
4.896	4.963	-0.067	275	13580			10.00- 60.00	24.72
4.896	4.963	-0.067	365	1705			1.00- 0.00	3.10
4.896	4.963	-0.067	441	5724			0.01- 99.99	80.19
4.896	4.963	-0.067	443	7138			15.00- 24.00	17.13

Data File: 1AE09003.D

Date: 09-MAY-2013 10:42

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC



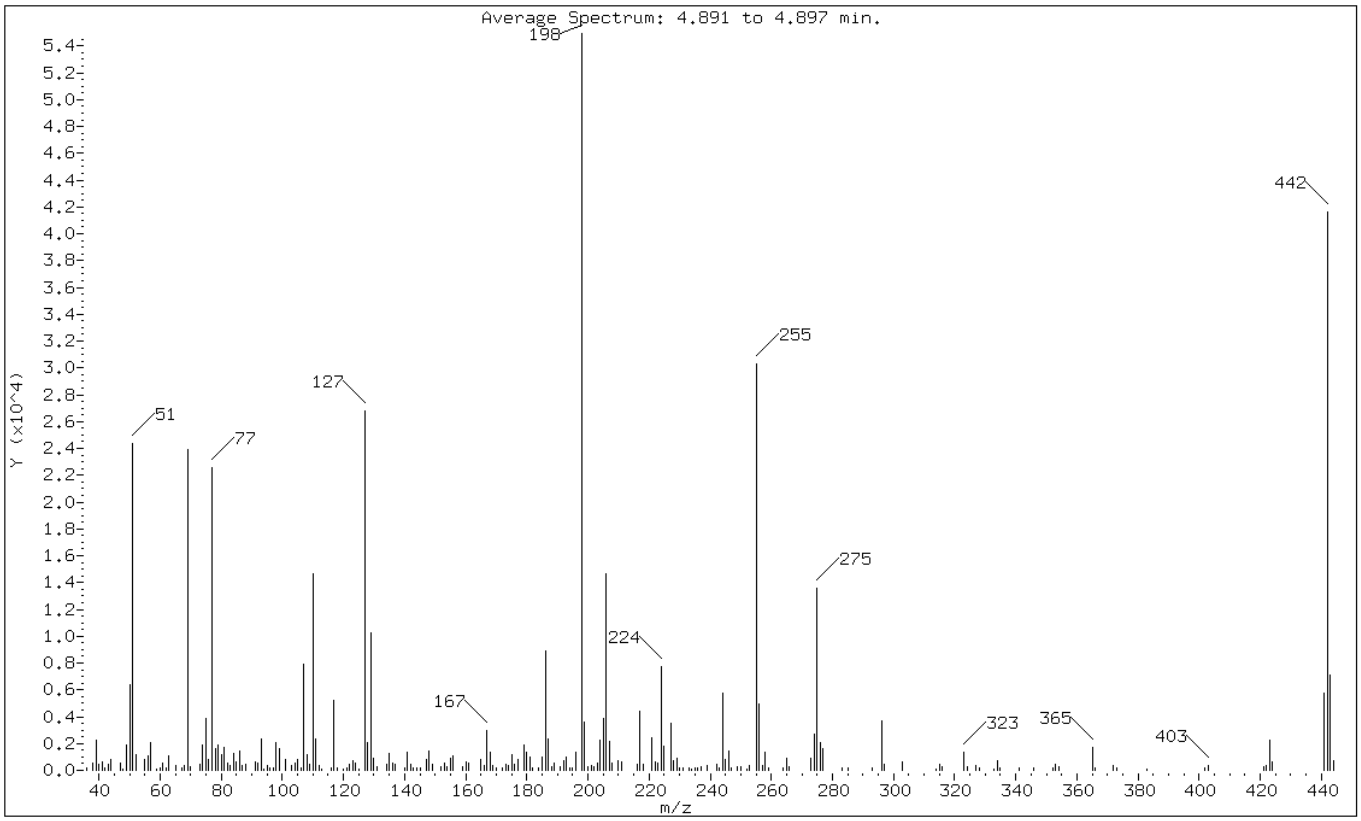
Data File: 1AE09003.D

Date: 09-MAY-2013 10:42

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	44.32
68	Less than 2.00% of mass 69	0.65 (1.49)
69	Mass 69 relative abundance	43.58
70	Less than 2.00% of mass 69	0.54 (1.25)
127	10.00 - 80.00% of mass 198	48.77
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	75.84
199	5.00 - 9.00% of mass 198	6.50
275	10.00 - 60.00% of mass 198	24.72
365	Greater than 1.00% of mass 198	3.10
441	Present, but less than mass 443	10.42
443	15.00 - 24.00% of mass 442	12.99 (17.13)

Data File: 1AE09003.D

Date: 09-MAY-2013 10:42

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A050913.b\1AE09003.D
Spectrum: Average Spectrum: 4.891 to 4.897 min.
Location of Maximum: 198.00
Number of points: 218

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	214	105.00	795	177.00	839	249.00	288
38.00	564	106.00	194	179.00	1930	250.00	262
39.00	2242	107.00	7882	180.00	1330	252.00	134
40.00	432	108.00	1171	181.00	1024	253.00	341
41.00	623	109.00	446	182.00	161	255.00	30280
42.00	135	110.00	14680	184.00	167	256.00	4964
43.00	480	111.00	2294	185.00	1025	257.00	362
44.00	838	112.00	354	186.00	8903	258.00	1341
47.00	545	113.00	133	187.00	2304	259.00	172
48.00	129	116.00	175	188.00	296	264.00	202
49.00	1918	117.00	5251	189.00	527	265.00	893
50.00	6371	118.00	213	191.00	280	266.00	309
51.00	24344	120.00	127	192.00	742	273.00	918
52.00	1131	121.00	176	193.00	962	274.00	2729
55.00	804	122.00	488	194.00	185	275.00	13580
56.00	1119	123.00	742	195.00	199	276.00	2034
57.00	2083	124.00	499	196.00	1367	277.00	1585
59.00	127	125.00	125	198.00	54928	283.00	203
60.00	144	127.00	26784	199.00	3570	285.00	165
61.00	504	128.00	2082	200.00	256	293.00	154
62.00	203	129.00	10216	201.00	326	296.00	3700
63.00	1049	130.00	870	202.00	307	297.00	494
65.00	337	131.00	276	203.00	532	303.00	602
67.00	172	134.00	407	204.00	2256	314.00	134
68.00	356	135.00	1281	205.00	3831	315.00	434
69.00	23936	136.00	550	206.00	14659	316.00	290
70.00	299	137.00	486	207.00	2190	323.00	1332
73.00	417	140.00	149	208.00	549	324.00	274
74.00	1904	141.00	1349	210.00	721	327.00	360
75.00	3886	142.00	468	211.00	642	328.00	141
76.00	831	143.00	176	216.00	460	333.00	126
77.00	22536	144.00	140	217.00	4368	334.00	689
78.00	1637	145.00	183	218.00	449	335.00	205
79.00	1909	147.00	773	221.00	2461	341.00	149
80.00	1157	148.00	1426	222.00	639	346.00	137
81.00	1674	149.00	454	223.00	497	352.00	214
82.00	514	152.00	309	224.00	7714	353.00	466
83.00	390	153.00	561	225.00	1777	354.00	302
84.00	1238	154.00	303	227.00	3529	365.00	1705
85.00	589	155.00	866	228.00	692	366.00	170

86.00	1440	156.00	1111	229.00	919	372.00	339
87.00	335	159.00	229	230.00	173	373.00	149
88.00	413	160.00	590	231.00	223	383.00	128
91.00	604	161.00	517	233.00	138	402.00	222
92.00	530	165.00	844	234.00	131	403.00	384
93.00	2325	166.00	345	235.00	195	421.00	229
94.00	129	167.00	2936	236.00	214	422.00	372
95.00	356	168.00	1306	237.00	314	423.00	2254
96.00	146	169.00	343	239.00	366	424.00	610
97.00	138	170.00	160	242.00	462	441.00	5724
98.00	2090	172.00	222	243.00	156	442.00	41656
99.00	1610	173.00	461	244.00	5795	443.00	7138
101.00	811	174.00	401	245.00	828	444.00	738
103.00	395	175.00	1181	246.00	1446		
104.00	511	176.00	407	247.00	204		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: | Lab Sample ID: MB 660-137132/1-A

Matrix: Solid | Lab File ID: 1AE06018.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 05/06/2013 08:14

Sample wt/vol: 15.12(g) | Date Analyzed: 05/06/2013 15:08

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	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	7.9	U	7.9	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
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	7.9	U	7.9	3.6
218-01-9	Chrysene	8.9	U	8.9	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.0
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	7.9	U	7.9	3.9
129-00-0	Pyrene	20	U	20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06018.D
Lab Smp Id: mb 660-137132/1-a
Inj Date : 06-MAY-2013 15:08
Operator : SCC Inst ID: BSMA5973.i
Smp Info : mb 660-137132/1-a
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: 18 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	15.120	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

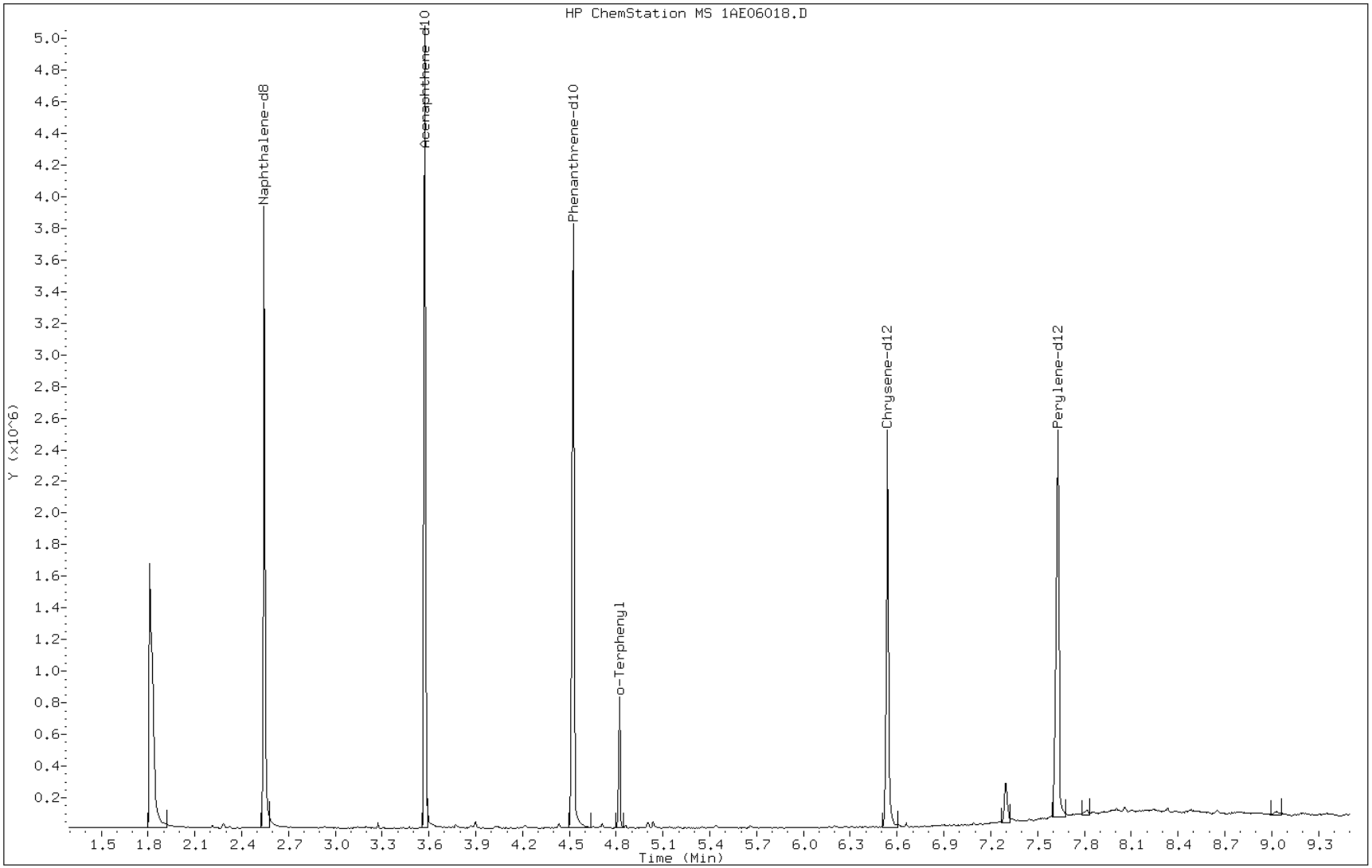
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.543	2.544	(1.000)	1640003	40.0000	
* 6 Acenaphthene-d10	164	3.574	3.575	(1.000)	834813	40.0000	
* 10 Phenanthrene-d10	188	4.525	4.521	(1.000)	1379503	40.0000	
$ 14 o-Terphenyl	230	4.819	4.820	(1.065)	120974	6.12722	405.2395
* 18 Chrysene-d12	240	6.539	6.535	(1.000)	1030752	40.0000	
* 23 Perylene-d12	264	7.629	7.630	(1.000)	1093945	40.0000	

Data File: 1AE06018.D

Date: 06-MAY-2013 15:08

Client ID: Instrument: BSMA5973.i

Sample Info: mb 660-137132/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: | Lab Sample ID: MB 660-137234/1-A

Matrix: Solid | Lab File ID: 1AE08010.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 05/08/2013 11:30

Sample wt/vol: 15.01(g) | Date Analyzed: 05/08/2013 17:58

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.: 137292 | 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 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050813.b\1AE08010.D
Lab Smp Id: mb 660-137234/1-a
Inj Date : 08-MAY-2013 17:58
Operator : SCC Inst ID: BSMA5973.i
Smp Info : mb 660-137234/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050813.b\a-bFASTPAHi-m.m
Meth Date : 08-May-2013 14:46 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 10 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	15.010	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	2.540	2.541	(1.000)	1447900	40.0000	
* 6 Acenaphthene-d10	164	3.571	3.572	(1.000)	758968	40.0000	
* 10 Phenanthrene-d10	188	4.522	4.523	(1.000)	1256439	40.0000	
$ 14 o-Terphenyl	230	4.816	4.817	(1.065)	126285	7.02271	467.8685
* 18 Chrysene-d12	240	6.536	6.542	(1.000)	1113466	40.0000	
* 23 Perylene-d12	264	7.642	7.632	(1.000)	970340	40.0000	

Data File: 1AE08010.D

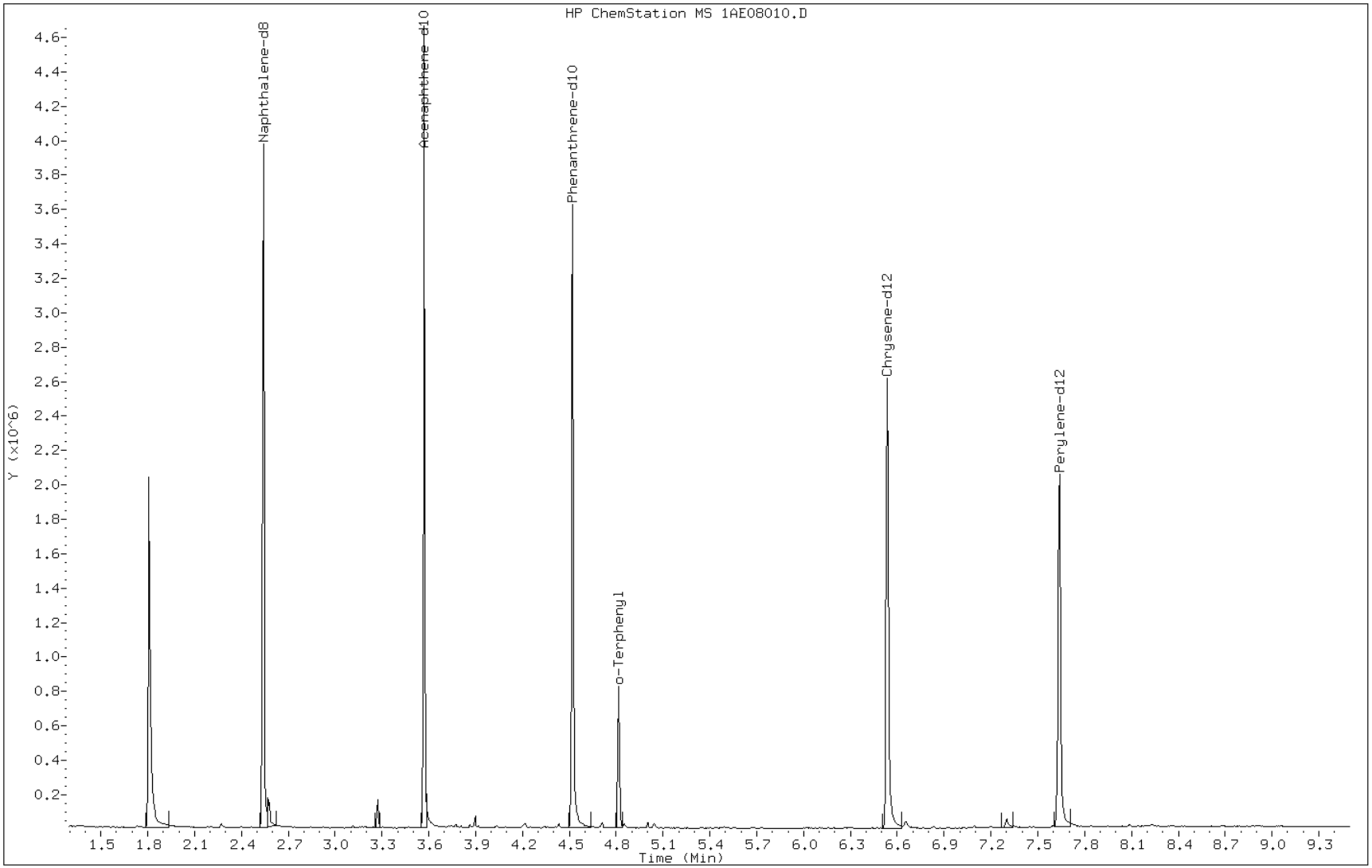
Date: 08-MAY-2013 17:58

Client ID:

Instrument: BSMA5973.i

Sample Info: mb 660-137234/1-a

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: | Lab Sample ID: LCS 660-137132/2-A

Matrix: Solid | Lab File ID: 1AE06019.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 05/06/2013 08:14

Sample wt/vol: 14.92(g) | Date Analyzed: 05/06/2013 15:24

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	373		100	20
208-96-8	Acenaphthylene	430		40	5.0
120-12-7	Anthracene	428		8.4	4.2
56-55-3	Benzo[a]anthracene	444		8.0	3.9
50-32-8	Benzo[a]pyrene	356		10	5.2
205-99-2	Benzo[b]fluoranthene	380		12	6.1
191-24-2	Benzo[g,h,i]perylene	508		20	4.4
207-08-9	Benzo[k]fluoranthene	357		8.0	3.6
218-01-9	Chrysene	380		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	502		20	4.1
206-44-0	Fluoranthene	432		20	4.0
86-73-7	Fluorene	445		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	467		20	7.1
90-12-0	1-Methylnaphthalene	439		40	4.4
91-57-6	2-Methylnaphthalene	435		40	7.1
91-20-3	Naphthalene	396		40	4.4
85-01-8	Phenanthrene	409		8.0	3.9
129-00-0	Pyrene	447		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	62		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06019.D
Lab Smp Id: lcs 660-137132/2-a
Inj Date : 06-MAY-2013 15:24
Operator : SCC Inst ID: BSMA5973.i
Smp Info : lcs 660-137132/2-a
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: 19 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	14.920	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	2.544	2.544	(1.000)	1543432	40.0000	
* 6	Acenaphthene-d10	164	3.575	3.575	(1.000)	808163	40.0000	
* 10	Phenanthrene-d10	188	4.526	4.521	(1.000)	1393811	40.0000	
$ 14	o-Terphenyl	230	4.819	4.820	(1.065)	124630	6.24760	418.7396
* 18	Chrysene-d12	240	6.540	6.535	(1.000)	1181721	40.0000	
* 23	Perylene-d12	264	7.629	7.630	(1.000)	1095540	40.0000	
2	Naphthalene	128	2.554	2.555	(1.004)	215005	5.91542	396.4758
3	2-Methylnaphthalene	141	2.960	2.961	(1.164)	119776	6.48425	434.6011
4	1-Methylnaphthalene	142	3.019	3.014	(1.187)	145109	6.55399	439.2757
5	Acenaphthylene	152	3.484	3.484	(0.975)	243385	6.40913	429.5660
7	Acenaphthene	154	3.591	3.591	(1.004)	121278	5.56111	372.7288
9	Fluorene	166	3.906	3.901	(1.093)	165022	6.63997	445.0379
11	Phenanthrene	178	4.536	4.537	(1.002)	210797	6.10465	409.1591
12	Anthracene	178	4.568	4.569	(1.009)	234725	6.38135	427.7041

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	4.702	4.702	(1.039)	211541	6.39634	428.7093
15 Fluoranthene	202	5.396	5.397	(1.192)	255953	6.44323	431.8515
16 Pyrene	202	5.562	5.562	(0.851)	253242	6.66689	446.8426
17 Benzo(a)anthracene	228	6.529	6.524	(0.998)	220126	6.62802	444.2369
19 Chrysene	228	6.556	6.551	(1.002)	211765	5.66706	379.8295
20 Benzo(b)fluoranthene	252	7.346	7.347	(0.963)	164092	5.66675	379.8092
21 Benzo(k)fluoranthene	252	7.368	7.368	(0.966)	191376	5.32731	357.0580
22 Benzo(a)pyrene	252	7.576	7.576	(0.993)	157930	5.31060	355.9381
24 Indeno(1,2,3-cd)pyrene	276	8.383	8.388	(1.099)	173770	6.97495	467.4900(M)
25 Dibenzo(a,h)anthracene	278	8.409	8.414	(1.102)	191298	7.49079	502.0638
26 Benzo(g,h,i)perylene	276	8.596	8.602	(1.127)	202899	7.57353	507.6095

QC Flag Legend

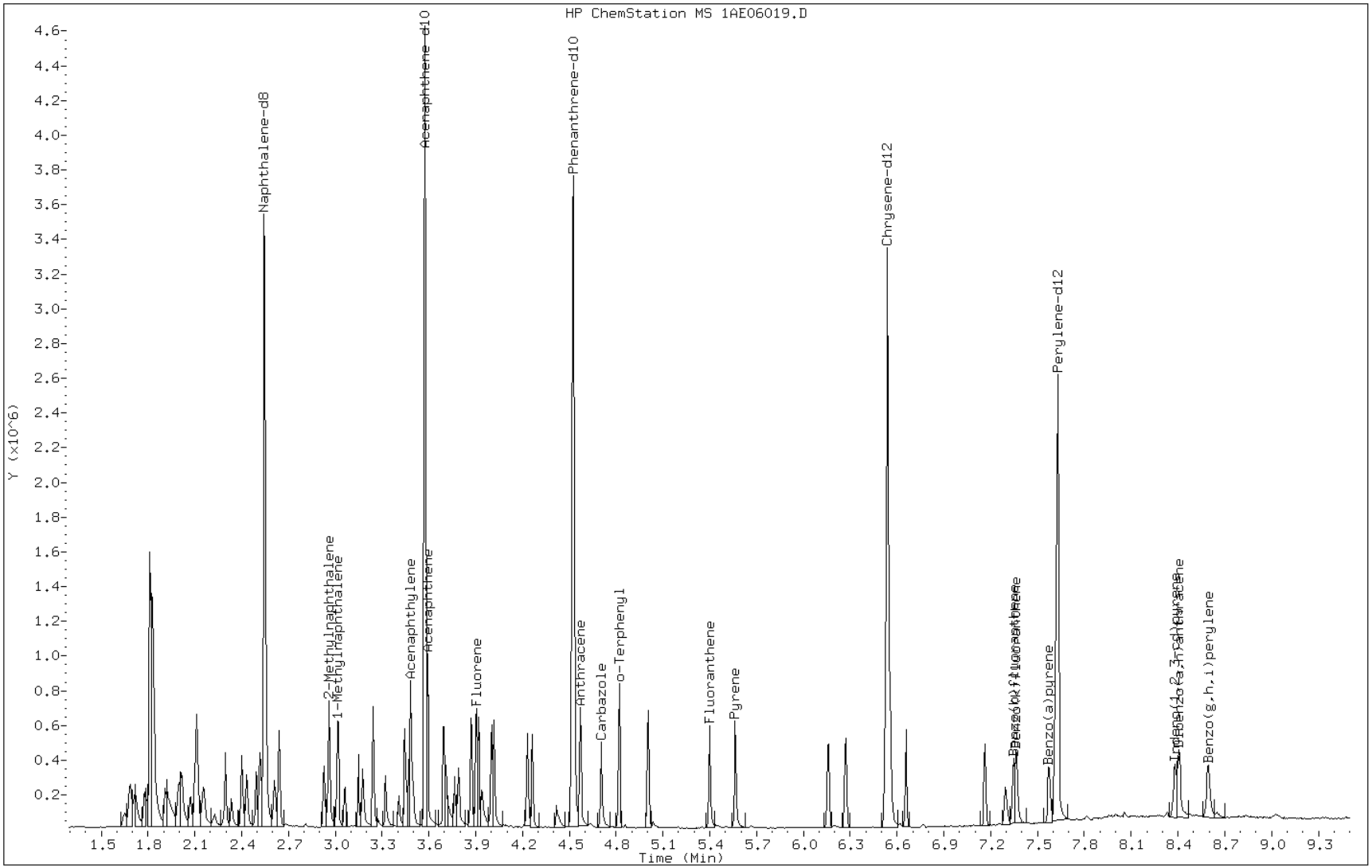
M - Compound response manually integrated.

Data File: 1AE06019.D

Date: 06-MAY-2013 15:24

Client ID: Instrument: BSMA5973.i

Sample Info: lcs 660-137132/2-a Operator: SCC



Manual Integration Report

Data File: 1AE06019.D
Inj. Date and Time: 06-MAY-2013 15:24
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/06/2013

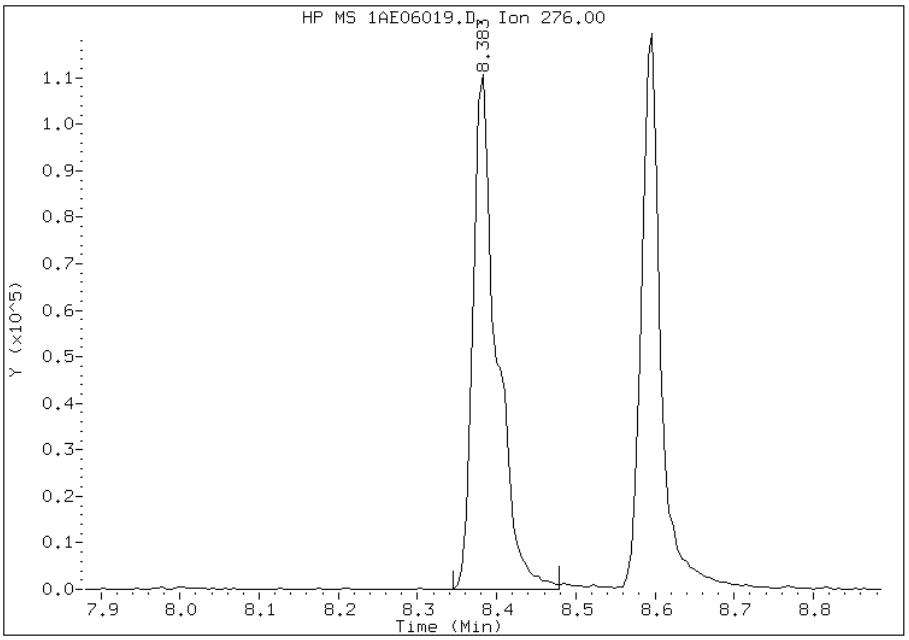
Processing Integration Results

RT: 8.38

Response: 228531

Amount: 9

Conc: 615



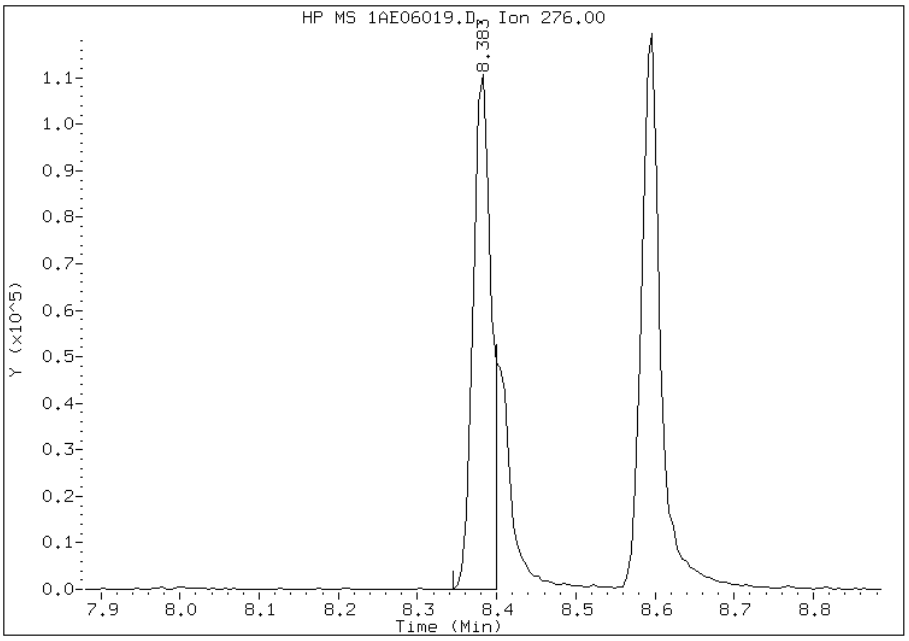
Manual Integration Results

RT: 8.38

Response: 173770

Amount: 7

Conc: 467



Manually Integrated By: cantins
Modification Date: 06-May-2013 15:52
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: | Lab Sample ID: LCS 660-137234/2-A

Matrix: Solid | Lab File ID: 1AE08011.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 05/08/2013 11:30

Sample wt/vol: 14.98(g) | Date Analyzed: 05/08/2013 18:13

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.: 137292 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	523		100	20
208-96-8	Acenaphthylene	560		40	5.0
120-12-7	Anthracene	583		8.4	4.2
56-55-3	Benzo[a]anthracene	573		8.0	3.9
50-32-8	Benzo[a]pyrene	519		10	5.2
205-99-2	Benzo[b]fluoranthene	523		12	6.1
191-24-2	Benzo[g,h,i]perylene	533		20	4.4
207-08-9	Benzo[k]fluoranthene	577		8.0	3.6
218-01-9	Chrysene	556		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	560		20	4.1
206-44-0	Fluoranthene	565		20	4.0
86-73-7	Fluorene	560		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	509		20	7.1
90-12-0	1-Methylnaphthalene	627		40	4.4
91-57-6	2-Methylnaphthalene	617		40	7.1
91-20-3	Naphthalene	537		40	4.4
85-01-8	Phenanthrene	556		8.0	3.9
129-00-0	Pyrene	571		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	86		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050813.b\1AE08011.D
Lab Smp Id: lcs 660-137234/2-a
Inj Date : 08-MAY-2013 18:13
Operator : SCC Inst ID: BSMA5973.i
Smp Info : lcs 660-137234/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050813.b\a-bFASTPAHi-m.m
Meth Date : 08-May-2013 14:46 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 11 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	14.980	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/ml)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	2.538	2.541	(1.000)	1077180	40.0000	
* 6	Acenaphthene-d10	164	3.569	3.572	(1.000)	592914	40.0000	
* 10	Phenanthrene-d10	188	4.520	4.523	(1.000)	1000050	40.0000	
$ 14	o-Terphenyl	230	4.814	4.817	(1.065)	122760	8.57688	572.5554
* 18	Chrysene-d12	240	6.534	6.542	(1.000)	881560	40.0000	
* 23	Perylene-d12	264	7.619	7.632	(1.000)	750317	40.0000	
2	Naphthalene	128	2.549	2.552	(1.004)	204121	8.04681	537.1704
3	2-Methylnaphthalene	141	2.955	2.958	(1.164)	119065	9.23577	616.5402
4	1-Methylnaphthalene	142	3.014	3.011	(1.187)	145078	9.38885	626.7591
5	Acenaphthylene	152	3.478	3.481	(0.975)	233715	8.38878	559.9986
7	Acenaphthene	154	3.585	3.588	(1.004)	125448	7.84063	523.4063
9	Fluorene	166	3.900	3.903	(1.093)	153037	8.39320	560.2938
11	Phenanthrene	178	4.531	4.534	(1.002)	206207	8.32304	555.6104
12	Anthracene	178	4.568	4.571	(1.011)	230671	8.74033	583.4669

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	4.702	4.705	(1.040)	198163	8.35107	557.4811
15 Fluoranthene	202	5.396	5.399	(1.194)	241387	8.46914	565.3629
16 Pyrene	202	5.562	5.565	(0.851)	242239	8.54860	570.6673
17 Benzo(a)anthracene	228	6.523	6.526	(0.998)	212610	8.58142	572.8582
19 Chrysene	228	6.550	6.558	(1.002)	232175	8.32879	555.9940
20 Benzo(b)fluoranthene	252	7.341	7.349	(0.964)	155268	7.82911	522.6375
21 Benzo(k)fluoranthene	252	7.362	7.370	(0.966)	212558	8.63935	576.7256
22 Benzo(a)pyrene	252	7.571	7.579	(0.994)	158392	7.77670	519.1389
24 Indeno(1,2,3-cd)pyrene	276	8.372	8.396	(1.099)	130056	7.62220	508.8250(M)
25 Dibenzo(a,h)anthracene	278	8.399	8.418	(1.102)	146778	8.39193	560.2088(M)
26 Benzo(g,h,i)perylene	276	8.586	8.610	(1.127)	146464	7.98239	532.8699(M)

QC Flag Legend

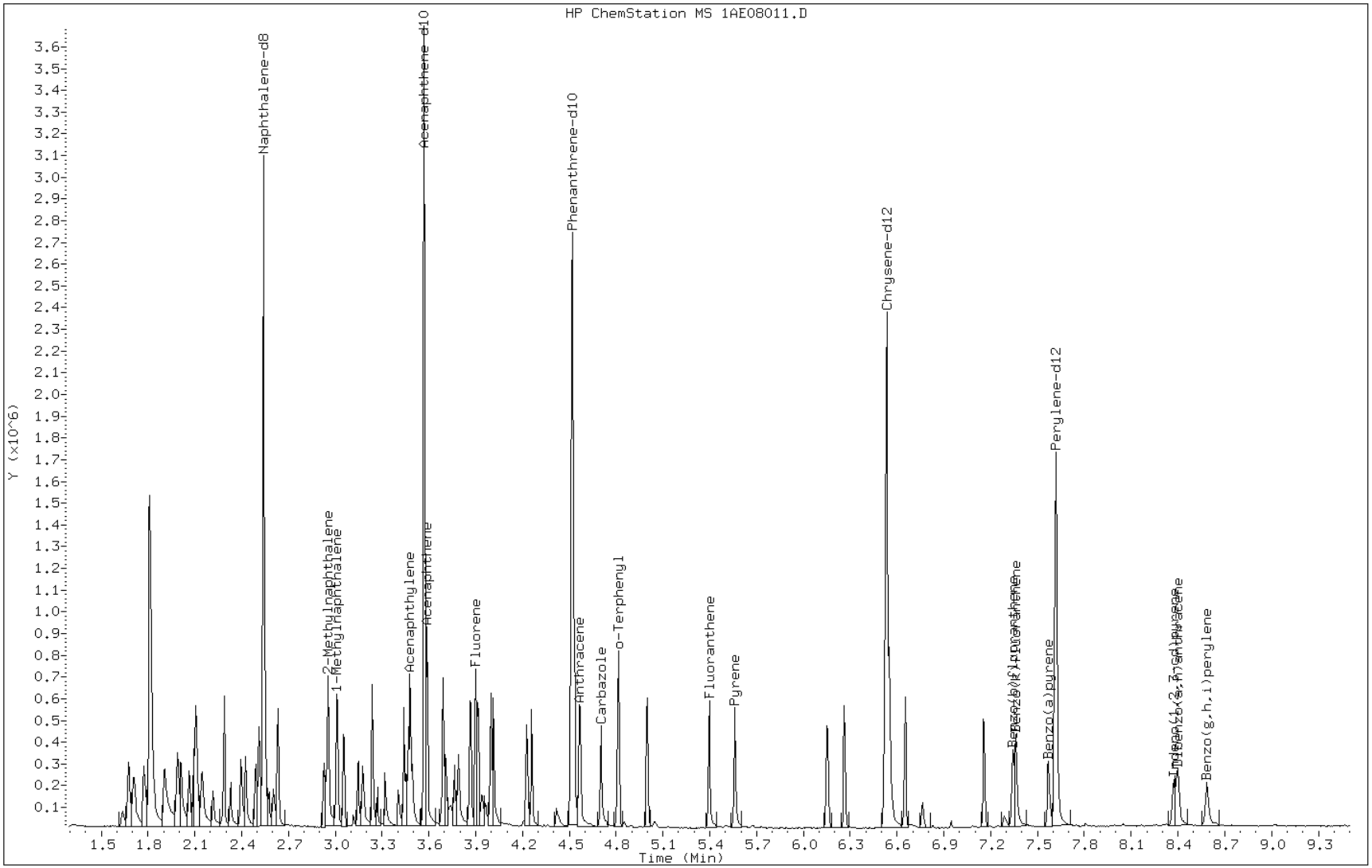
M - Compound response manually integrated.

Data File: 1AE08011.D

Date: 08-MAY-2013 18:13

Client ID: Instrument: BSMA5973.i

Sample Info: lcs 660-137234/2-a Operator: SCC



Manual Integration Report

Data File: 1AE08011.D
Inj. Date and Time: 08-MAY-2013 18:13
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/09/2013

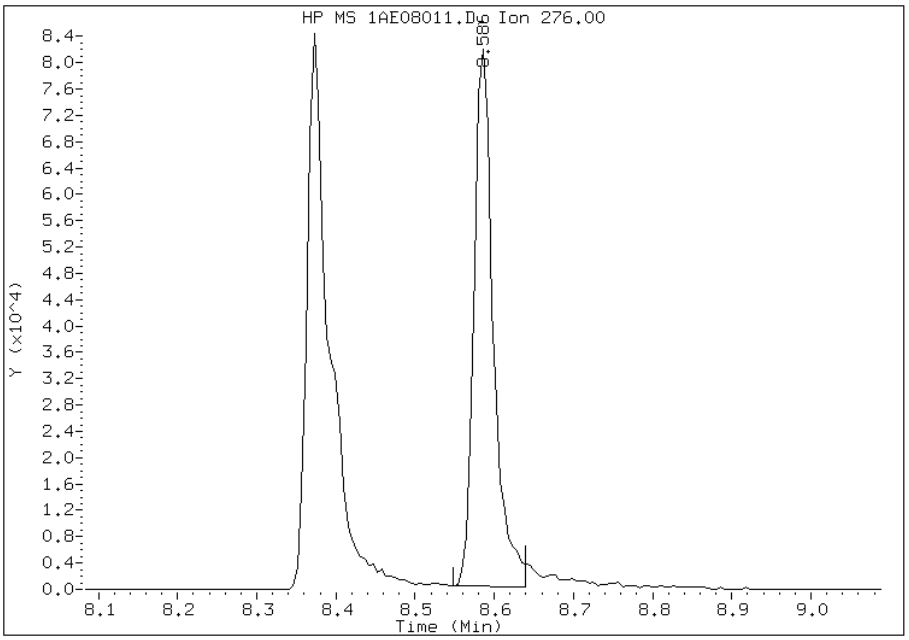
Processing Integration Results

RT: 8.59

Response: 137841

Amount: 8

Conc: 501



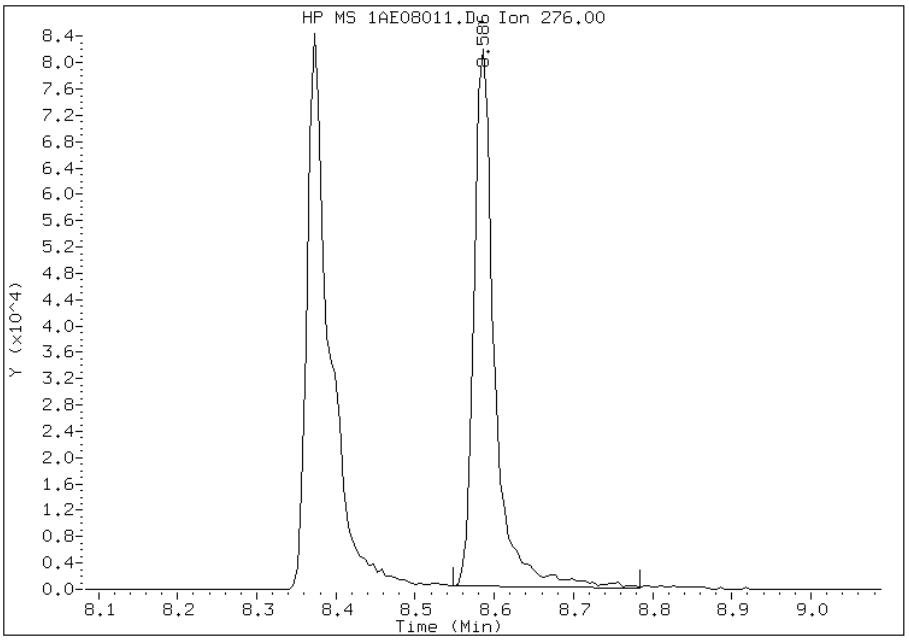
Manual Integration Results

RT: 8.59

Response: 146464

Amount: 8

Conc: 533



Manually Integrated By: cantins
Modification Date: 09-May-2013 14:50
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE08011.D
Inj. Date and Time: 08-MAY-2013 18:13
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/09/2013

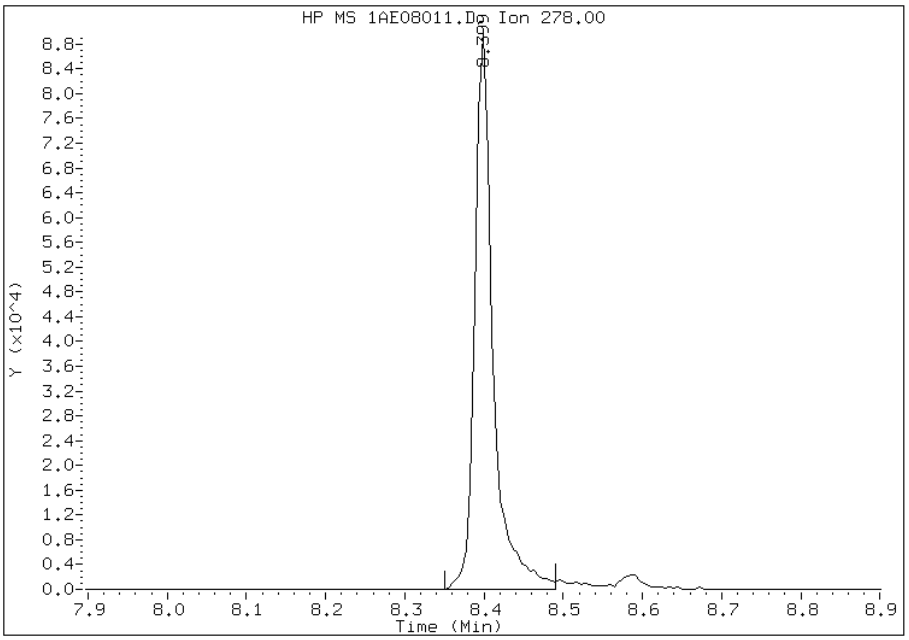
Processing Integration Results

RT: 8.40

Response: 142901

Amount: 8

Conc: 545



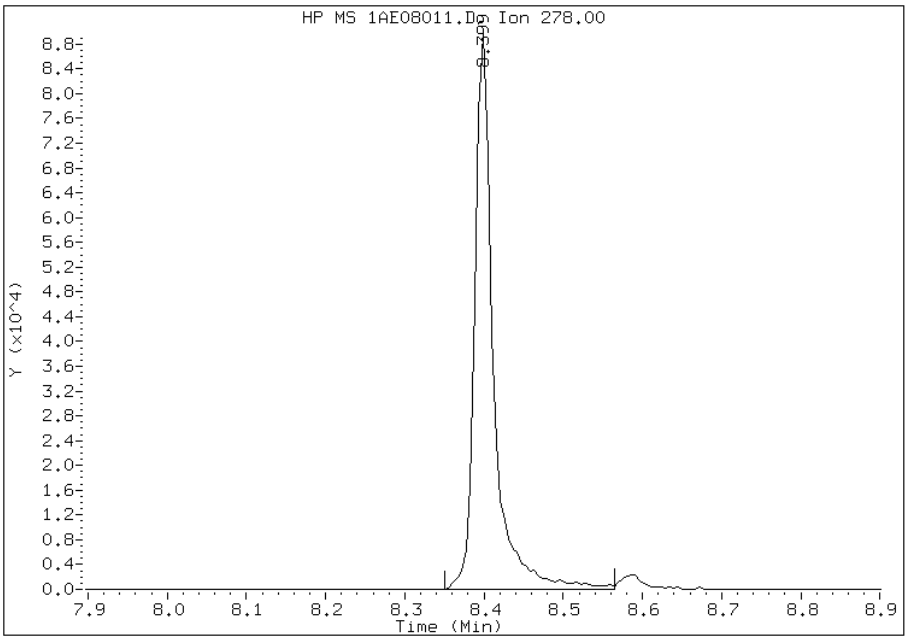
Manual Integration Results

RT: 8.40

Response: 146778

Amount: 8

Conc: 560



Manually Integrated By: cantins
Modification Date: 09-May-2013 14:51
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE08011.D
Inj. Date and Time: 08-MAY-2013 18:13
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/09/2013

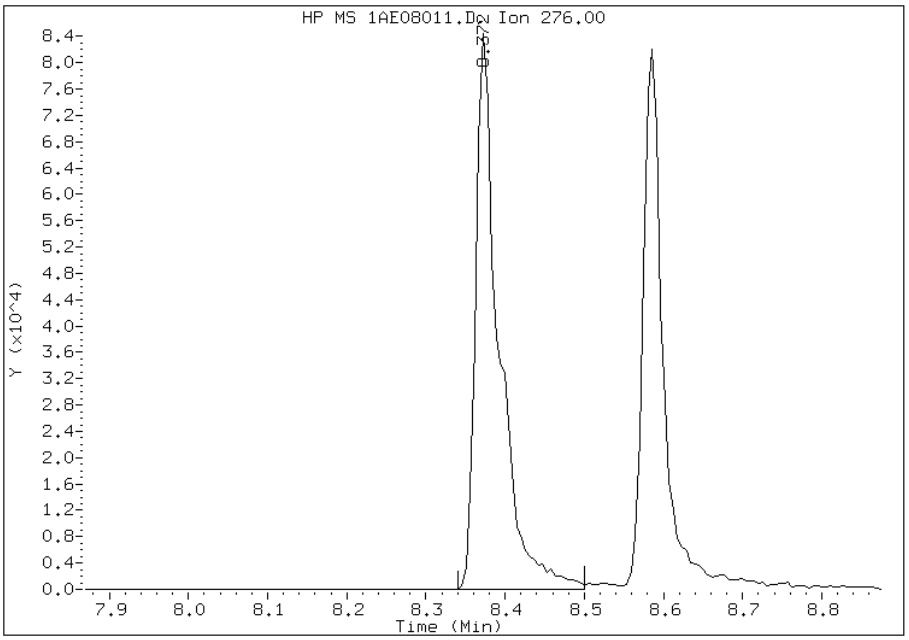
Processing Integration Results

RT: 8.37

Response: 172223

Amount: 10

Conc: 674



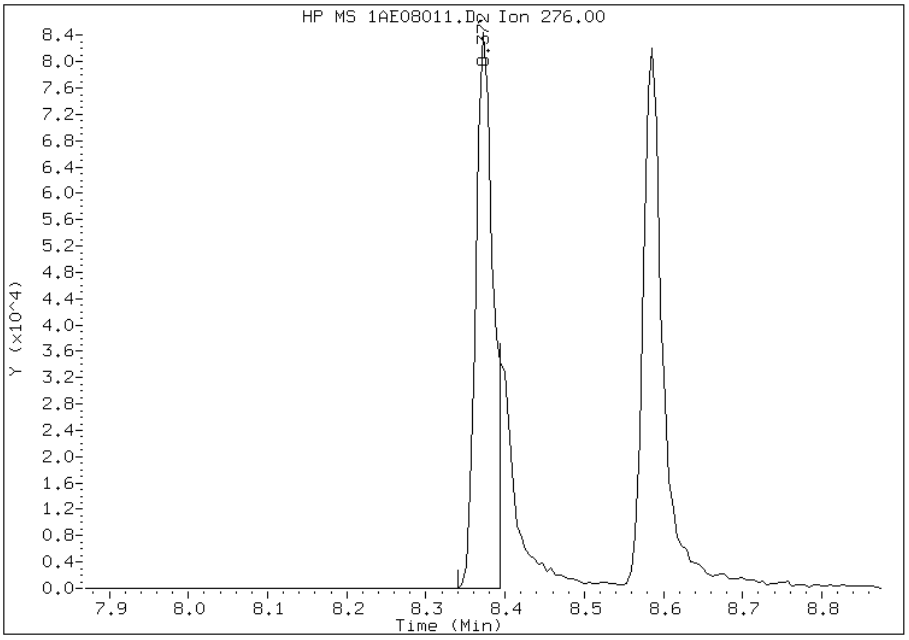
Manual Integration Results

RT: 8.37

Response: 130056

Amount: 8

Conc: 509



Manually Integrated By: cantins
Modification Date: 09-May-2013 14:51
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: | Lab Sample ID: 680-89985-A-22-B MS

Matrix: Solid | Lab File ID: 1AE09025.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 05/08/2013 11:30

Sample wt/vol: 15.04(g) | Date Analyzed: 05/09/2013 16:12

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

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

% Moisture: 9.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137283 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520		110	22
208-96-8	Acenaphthylene	637		44	5.5
120-12-7	Anthracene	757		9.3	4.6
56-55-3	Benzo[a]anthracene	1050		8.8	4.3
50-32-8	Benzo[a]pyrene	763		11	5.7
205-99-2	Benzo[b]fluoranthene	1050		13	6.7
191-24-2	Benzo[g,h,i]perylene	492		22	4.9
207-08-9	Benzo[k]fluoranthene	789		8.8	4.0
218-01-9	Chrysene	824		9.9	5.0
53-70-3	Dibenz(a,h)anthracene	504		22	4.5
206-44-0	Fluoranthene	1200		22	4.4
86-73-7	Fluorene	624		22	4.5
193-39-5	Indeno[1,2,3-cd]pyrene	590		22	7.8
90-12-0	1-Methylnaphthalene	637		44	4.9
91-57-6	2-Methylnaphthalene	681		44	7.8
91-20-3	Naphthalene	590		44	4.9
85-01-8	Phenanthrene	969		8.8	4.3
129-00-0	Pyrene	1020		22	4.1

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050913.b\1AE09025.D
Lab Smp Id: 680-89985-a-22-b ms
Inj Date : 09-MAY-2013 16:12
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89985-a-22-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050913.b\a-bFASTPAHi-m.m
Meth Date : 09-May-2013 11:07 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 32 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	15.040	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	2.543	(1.000)	1004876	40.0000	
* 6	Acenaphthene-d10	164	3.585	3.574	(1.000)	534509	40.0000	
* 10	Phenanthrene-d10	188	4.541	4.520	(1.000)	859418	40.0000	
$ 14	o-Terphenyl	230	4.830	4.819	(1.064)	86914	7.06610	469.8201
* 18	Chrysene-d12	240	6.576	6.539	(1.000)	812087	40.0000	
* 23	Perylene-d12	264	7.666	7.634	(1.000)	748926	40.0000	
2	Naphthalene	128	2.565	2.554	(1.004)	189960	8.02739	533.7358
3	2-Methylnaphthalene	141	2.970	2.960	(1.163)	111377	9.26106	615.7616
4	1-Methylnaphthalene	142	3.024	3.013	(1.184)	124827	8.65955	575.7679
5	Acenaphthylene	152	3.499	3.484	(0.976)	217646	8.66562	576.1714
7	Acenaphthene	154	3.601	3.590	(1.004)	102060	7.07586	470.4695
9	Fluorene	166	3.916	3.906	(1.092)	139426	8.48226	563.9802
11	Phenanthrene	178	4.552	4.536	(1.002)	280544	13.1764	876.0909(R)
12	Anthracene	178	4.589	4.573	(1.011)	233646	10.3017	684.9562

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	4.733	4.707	(1.042)	133582	6.55065	435.5487
15 Fluoranthene	202	5.428	5.401	(1.195)	399138	16.2954	1083.4721(R)
16 Pyrene	202	5.593	5.567	(0.851)	360945	13.8274	919.3762(R)
17 Benzo(a)anthracene	228	6.566	6.534	(0.998)	326922	14.3241	952.4033(R)
19 Chrysene	228	6.592	6.561	(1.002)	287663	11.2021	744.8211
20 Benzo(b)fluoranthene	252	7.394	7.351	(0.964)	281546	14.2228	945.6661(R)
21 Benzo(k)fluoranthene	252	7.410	7.373	(0.967)	263575	10.7328	713.6181
22 Benzo(a)pyrene	252	7.618	7.581	(0.994)	211107	10.3841	690.4350
24 Indeno(1,2,3-cd)pyrene	276	8.441	8.398	(1.101)	136648	8.02341	533.4714(M)
25 Dibenzo(a,h)anthracene	278	8.462	8.425	(1.104)	119729	6.85813	455.9930
26 Benzo(g,h,i)perylene	276	8.665	8.617	(1.130)	122615	6.69502	445.1473

QC Flag Legend

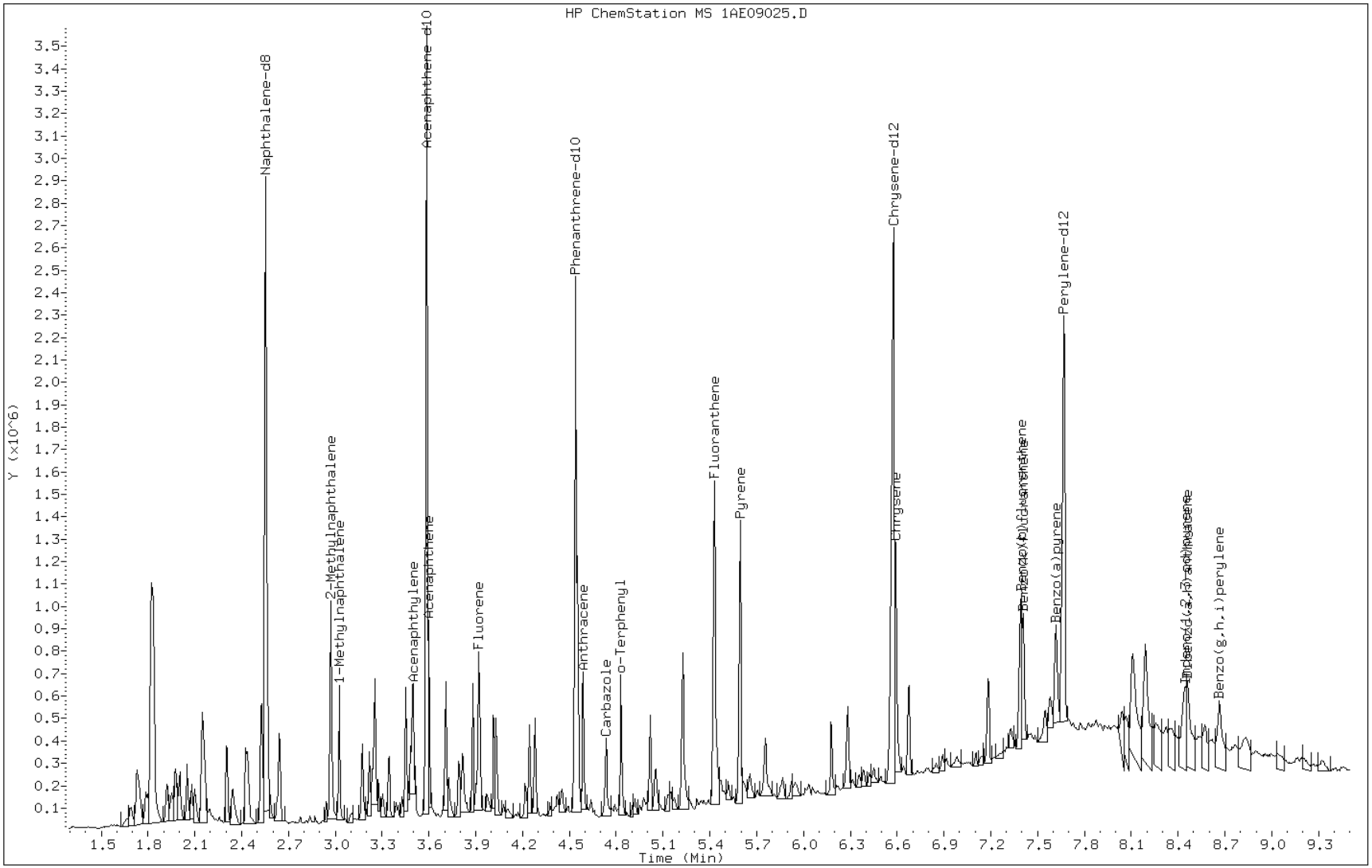
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1AE09025.D

Date: 09-MAY-2013 16:12

Client ID: Instrument: BSMA5973.i

Sample Info: 680-89985-a-22-b ms Operator: SCC



Manual Integration Report

Data File: 1AE09025.D
Inj. Date and Time: 09-MAY-2013 16:12
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/10/2013

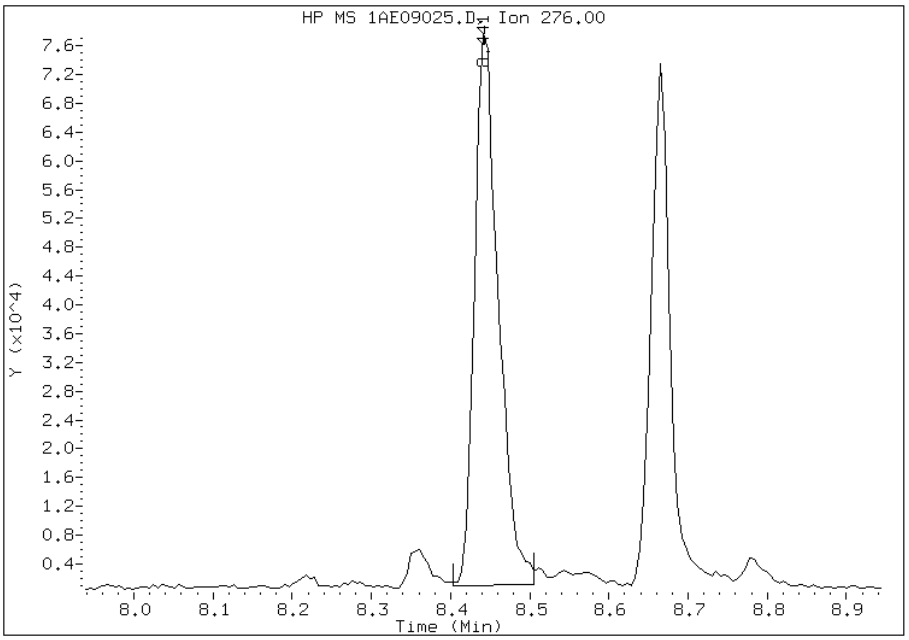
Processing Integration Results

RT: 8.44

Response: 159060

Amount: 9

Conc: 621



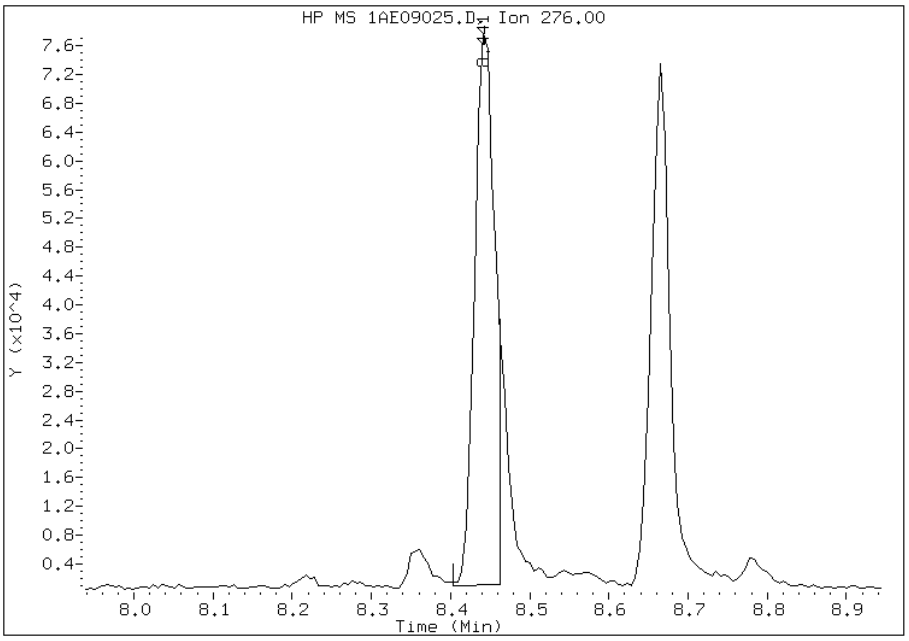
Manual Integration Results

RT: 8.44

Response: 136648

Amount: 8

Conc: 533



Manually Integrated By: cantins
Modification Date: 09-May-2013 16:40
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: CV1067B-CS MS | Lab Sample ID: 680-89985-3 MS

Matrix: Solid | Lab File ID: 1AE06025.D

Analysis Method: 8270C LL | Date Collected: 05/01/2013 10:50

Extract. Method: 3546 | Date Extracted: 05/06/2013 08:14

Sample wt/vol: 15.20(g) | Date Analyzed: 05/06/2013 16:56

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

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

% Moisture: 26.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137156 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	477		130	27
208-96-8	Acenaphthylene	544		54	6.7
120-12-7	Anthracene	595		11	5.6
56-55-3	Benzo[a]anthracene	795		11	5.2
50-32-8	Benzo[a]pyrene	661		14	7.0
205-99-2	Benzo[b]fluoranthene	963		16	8.2
191-24-2	Benzo[g,h,i]perylene	743		27	5.9
207-08-9	Benzo[k]fluoranthene	626		11	4.8
218-01-9	Chrysene	913		12	6.1
53-70-3	Dibenz(a,h)anthracene	628		27	5.5
206-44-0	Fluoranthene	1250		27	5.4
86-73-7	Fluorene	531		27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	751		27	9.5
90-12-0	1-Methylnaphthalene	722		54	5.9
91-57-6	2-Methylnaphthalene	739		54	9.5
91-20-3	Naphthalene	879		54	5.9
85-01-8	Phenanthrene	1460		11	5.2
129-00-0	Pyrene	1170		27	5.0

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\1A050613.b\1AE06025.D
Lab Smp Id: 680-89985-a-3-b ms
Inj Date : 06-MAY-2013 16:56
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89985-a-3-b ms
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: 25 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	15.200	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	2.546	2.544	(1.000)	1074078	40.0000	
*	6 Acenaphthene-d10	164	3.571	3.575	(1.000)	539450	40.0000	
*	10 Phenanthrene-d10	188	4.522	4.521	(1.000)	802754	40.0000	
$	14 o-Terphenyl	230	4.821	4.820	(1.066)	56829	4.94631	325.4154
*	18 Chrysene-d12	240	6.542	6.535	(1.000)	668390	40.0000	
*	23 Perylene-d12	264	7.631	7.630	(1.000)	856623	40.0000	
	2 Naphthalene	128	2.556	2.555	(1.004)	248104	9.80895	645.3255
	3 2-Methylnaphthalene	141	2.962	2.961	(1.164)	105985	8.24491	542.4284
	4 1-Methylnaphthalene	142	3.016	3.014	(1.185)	124143	8.05723	530.0807
	5 Acenaphthylene	152	3.486	3.484	(0.976)	153865	6.07005	399.3456
	7 Acenaphthene	154	3.593	3.591	(1.006)	77511	5.32465	350.3057
	9 Fluorene	166	3.903	3.901	(1.093)	98228	5.92116	389.5502
	11 Phenanthrene	178	4.538	4.537	(1.004)	323427	16.2628	1069.9185(R)
	12 Anthracene	178	4.570	4.569	(1.011)	140543	6.63412	436.4554

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	4.704	4.702	(1.040)	115311	6.05382	398.2775
15 Fluoranthene	202	5.404	5.397	(1.195)	319180	13.9508	917.8180(R)
16 Pyrene	202	5.564	5.562	(0.851)	280833	13.0714	859.9579(R)
17 Benzo(a)anthracene	228	6.531	6.524	(0.998)	166647	8.87145	583.6481
19 Chrysene	228	6.558	6.551	(1.002)	215332	10.1882	670.2756
20 Benzo(b)fluoranthene	252	7.354	7.347	(0.964)	243337	10.7472	707.0499
21 Benzo(k)fluoranthene	252	7.370	7.368	(0.966)	196033	6.97891	459.1391
22 Benzo(a)pyrene	252	7.578	7.576	(0.993)	171493	7.37503	485.1991
24 Indeno(1,2,3-cd)pyrene	276	8.395	8.388	(1.100)	163206	8.37801	551.1850(M)
25 Dibenzo(a,h)anthracene	278	8.417	8.414	(1.103)	139822	7.00215	460.6677
26 Benzo(g,h,i)perylene	276	8.614	8.602	(1.129)	173545	8.28456	545.0366

QC Flag Legend

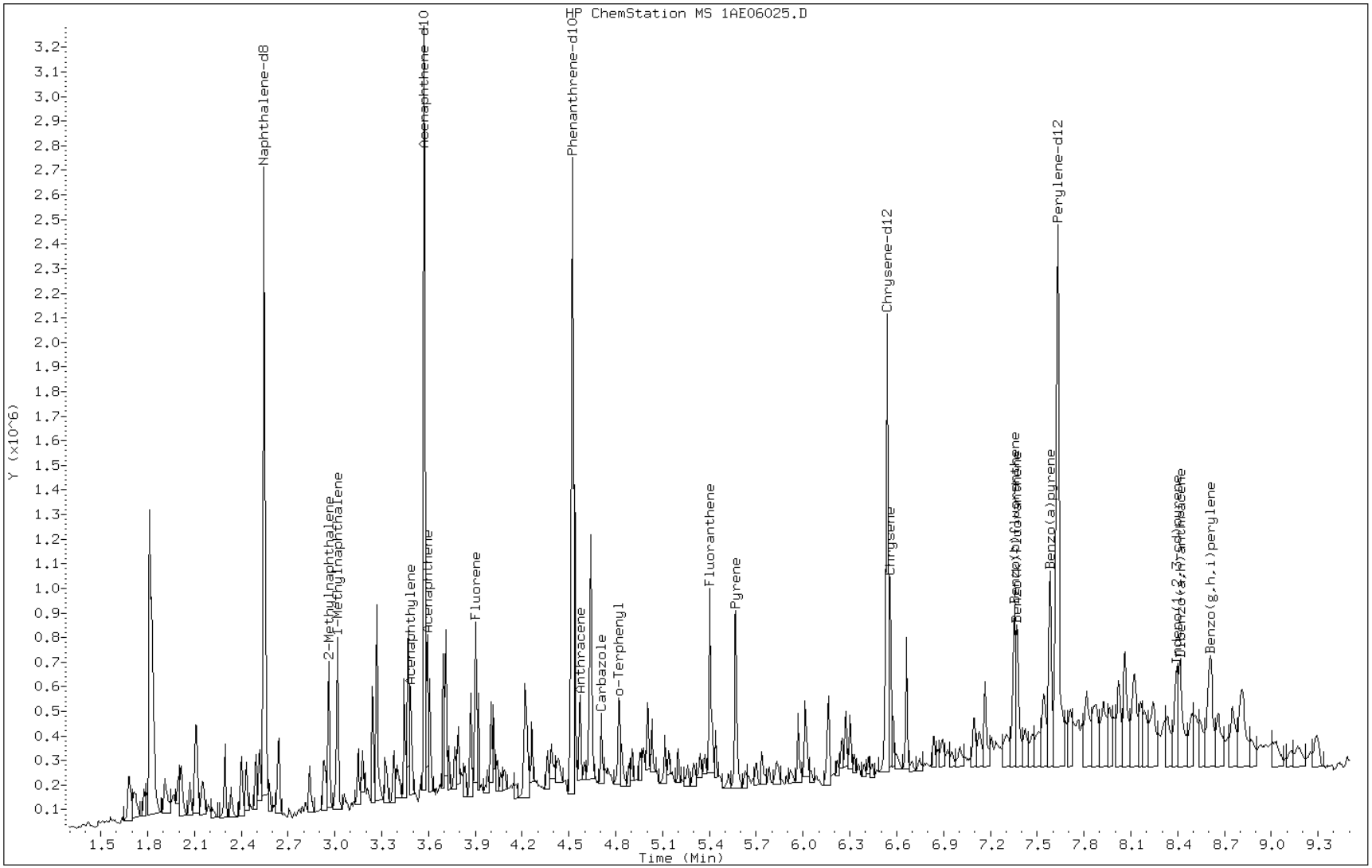
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1AE06025.D

Date: 06-MAY-2013 16:56

Client ID: Instrument: BSMA5973.i

Sample Info: 680-89985-a-3-b ms Operator: SCC



Manual Integration Report

Data File: 1AE06025.D
Inj. Date and Time: 06-MAY-2013 16:56
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/07/2013

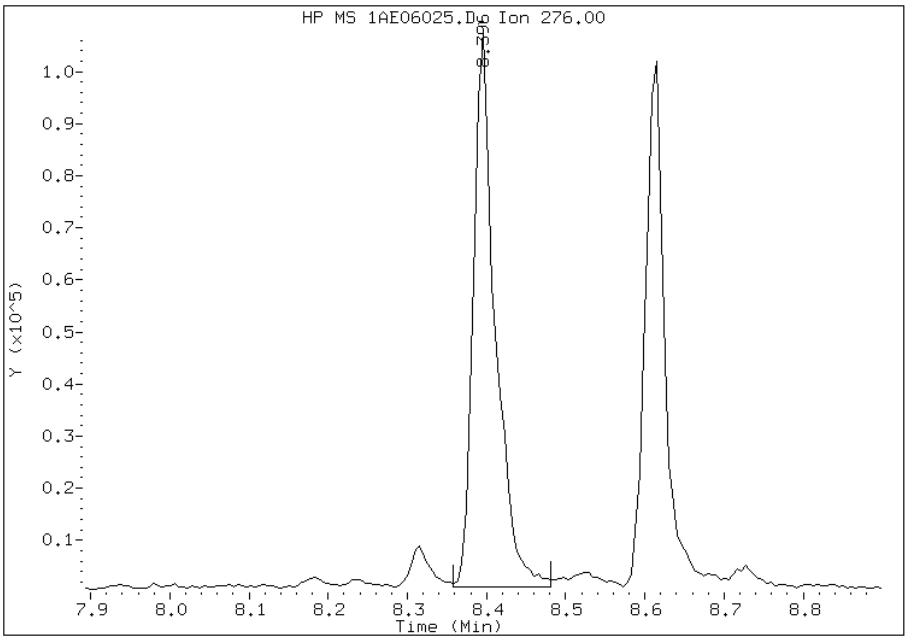
Processing Integration Results

RT: 8.40

Response: 202410

Amount: 10

Conc: 684



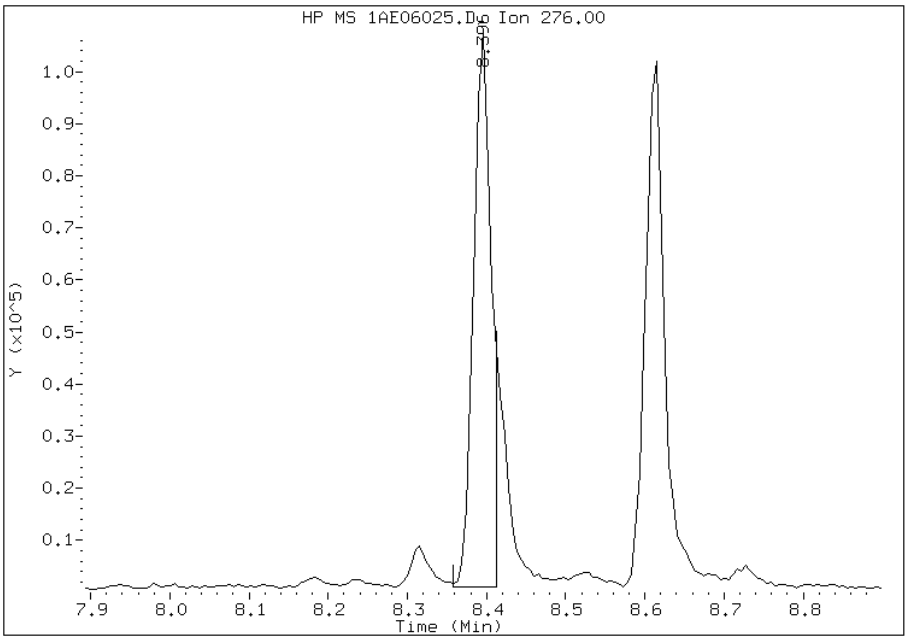
Manual Integration Results

RT: 8.40

Response: 163206

Amount: 8

Conc: 551



Manually Integrated By: cantins
Modification Date: 07-May-2013 13:56
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: | Lab Sample ID: 680-89985-A-22-C MSD

Matrix: Solid | Lab File ID: 1AE09026.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 05/08/2013 11:30

Sample wt/vol: 15.02(g) | Date Analyzed: 05/09/2013 16:28

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

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

% Moisture: 9.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137283 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	489		110	22
208-96-8	Acenaphthylene	591		44	5.5
120-12-7	Anthracene	640		9.3	4.6
56-55-3	Benzo[a]anthracene	718		8.8	4.3
50-32-8	Benzo[a]pyrene	562		11	5.7
205-99-2	Benzo[b]fluoranthene	797		13	6.7
191-24-2	Benzo[g,h,i]perylene	380		22	4.9
207-08-9	Benzo[k]fluoranthene	612		8.8	4.0
218-01-9	Chrysene	692		9.9	5.0
53-70-3	Dibenz(a,h)anthracene	431		22	4.5
206-44-0	Fluoranthene	738		22	4.4
86-73-7	Fluorene	553		22	4.5
193-39-5	Indeno[1,2,3-cd]pyrene	458		22	7.8
90-12-0	1-Methylnaphthalene	557		44	4.9
91-57-6	2-Methylnaphthalene	623		44	7.8
91-20-3	Naphthalene	548		44	4.9
85-01-8	Phenanthrene	671		8.8	4.3
129-00-0	Pyrene	656		22	4.1

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050913.b\1AE09026.D
Lab Smp Id: 680-89985-a-22-c ms
Inj Date : 09-MAY-2013 16:28
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89985-a-22-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050913.b\a-bFASTPAHi-m.m
Meth Date : 09-May-2013 11:07 cantins Quant Type: ISTD
Cal Date : 06-MAY-2013 11:56 Cal File: 1AE06009.D
Als bottle: 33 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	15.020	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1	Naphthalene-d8	136	2.555	2.543	(1.000)	987230	40.0000	
* 6	Acenaphthene-d10	164	3.586	3.574	(1.000)	534823	40.0000	
* 10	Phenanthrene-d10	188	4.543	4.520	(1.000)	846339	40.0000	
$ 14	o-Terphenyl	230	4.831	4.819	(1.063)	82668	6.82476	454.3780
* 18	Chrysene-d12	240	6.578	6.539	(1.000)	813364	40.0000	
* 23	Perylene-d12	264	7.673	7.634	(1.000)	746047	40.0000	
2	Naphthalene	128	2.566	2.554	(1.004)	172981	7.44054	495.3756
3	2-Methylnaphthalene	141	2.972	2.960	(1.163)	100033	8.46647	563.6797
4	1-Methylnaphthalene	142	3.025	3.013	(1.184)	107189	7.56887	503.9195
5	Acenaphthylene	152	3.496	3.484	(0.975)	201803	8.03011	534.6277
7	Acenaphthene	154	3.602	3.590	(1.004)	95938	6.64752	442.5775
9	Fluorene	166	3.918	3.906	(1.092)	123515	7.50987	499.9915
11	Phenanthrene	178	4.553	4.536	(1.002)	191247	9.12118	607.2686
12	Anthracene	178	4.591	4.573	(1.011)	194267	8.69784	579.0839

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	4.735	4.707	(1.042)	132185	6.58232	438.2370
15 Fluoranthene	202	5.424	5.401	(1.194)	241918	10.0293	667.7299
16 Pyrene	202	5.595	5.567	(0.851)	232907	8.90841	593.1032
17 Benzo(a)anthracene	228	6.567	6.534	(0.998)	222982	9.75466	649.4445
19 Chrysene	228	6.594	6.561	(1.002)	241713	9.39796	625.6961
20 Benzo(b)fluoranthene	252	7.390	7.351	(0.963)	213577	10.8309	721.0968
21 Benzo(k)fluoranthene	252	7.411	7.373	(0.966)	203464	8.31706	553.7323
22 Benzo(a)pyrene	252	7.620	7.581	(0.993)	154711	7.63945	508.6183
24 Indeno(1,2,3-cd)pyrene	276	8.442	8.398	(1.100)	105631	6.22615	414.5242(M)
25 Dibenzo(a,h)anthracene	278	8.469	8.425	(1.104)	101913	5.86015	390.1566
26 Benzo(g,h,i)perylene	276	8.667	8.617	(1.129)	94291	5.16834	344.0971

QC Flag Legend

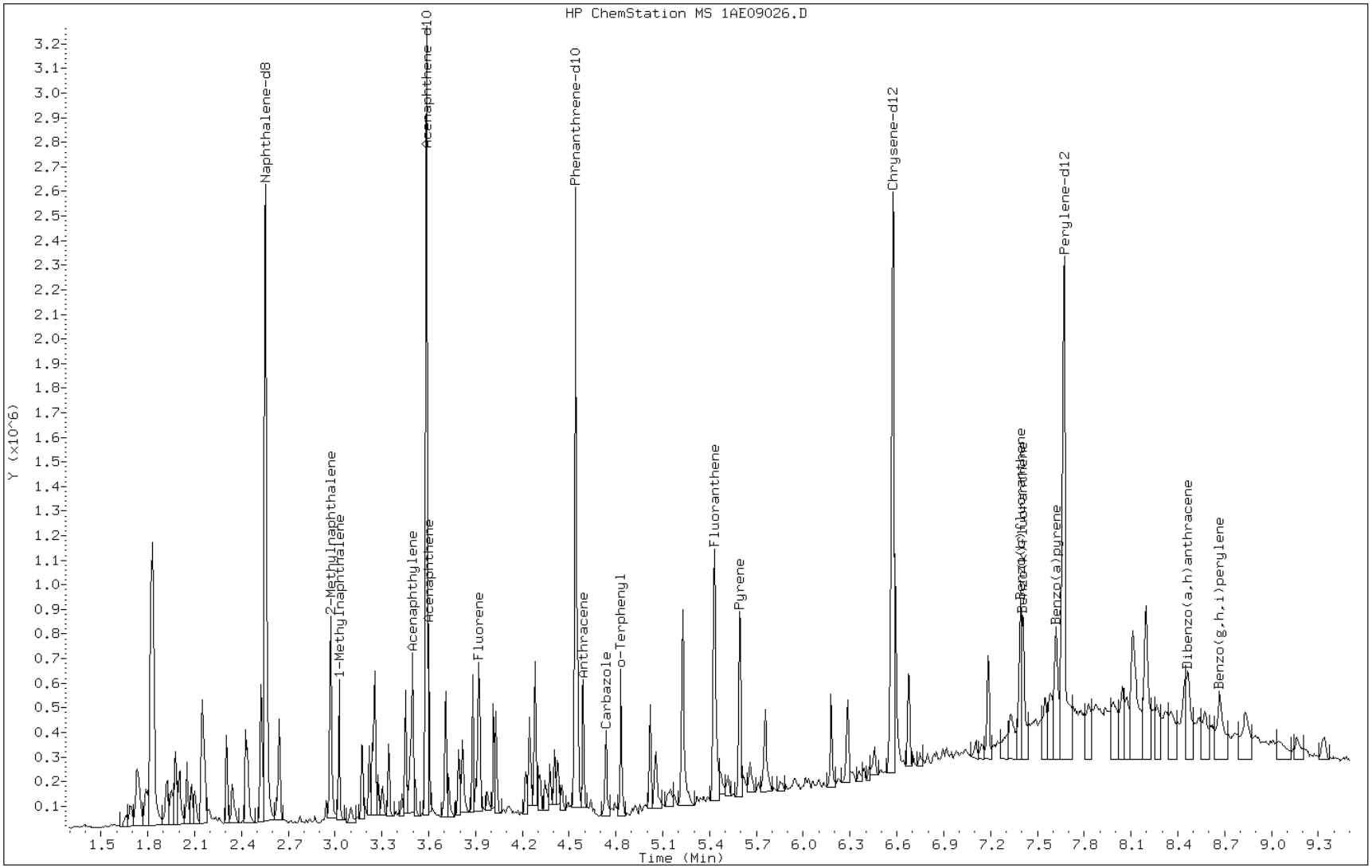
M - Compound response manually integrated.

Data File: 1AE09026.D

Date: 09-MAY-2013 16:28

Client ID: Instrument: BSMA5973.i

Sample Info: 680-89985-a-22-c msd Operator: SCC



Manual Integration Report

Data File: 1AE09026.D
Inj. Date and Time: 09-MAY-2013 16:28
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/10/2013

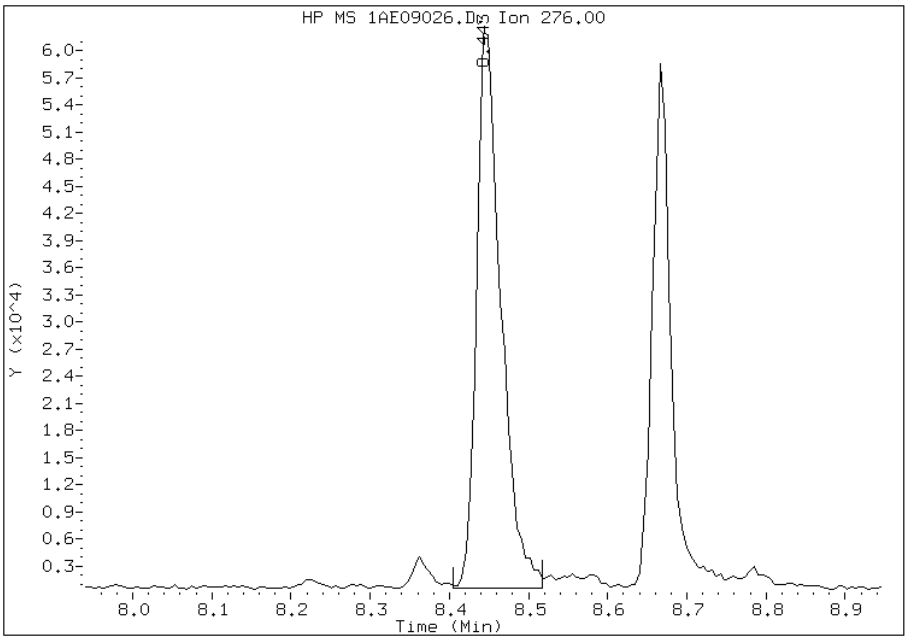
Processing Integration Results

RT: 8.44

Response: 130790

Amount: 8

Conc: 513



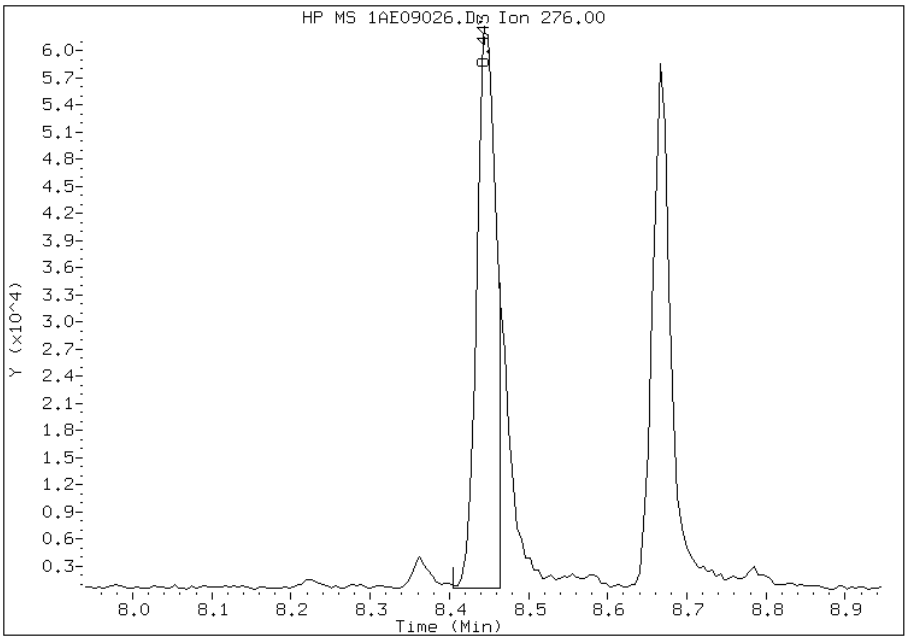
Manual Integration Results

RT: 8.44

Response: 105631

Amount: 6

Conc: 415



Manually Integrated By: cantins
Modification Date: 10-May-2013 11:18
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89985-1

SDG No.: 68089985-1

Client Sample ID: CV1067B-CS MSD | Lab Sample ID: 680-89985-3 MSD

Matrix: Solid | Lab File ID: 1AE06026.D

Analysis Method: 8270C LL | Date Collected: 05/01/2013 10:50

Extract. Method: 3546 | Date Extracted: 05/06/2013 08:14

Sample wt/vol: 15.20(g) | Date Analyzed: 05/06/2013 17:11

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

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

% Moisture: 26.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 137156 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	364		130	27
208-96-8	Acenaphthylene	520		54	6.7
120-12-7	Anthracene	680		11	5.6
56-55-3	Benzo[a]anthracene	1910		11	5.2
50-32-8	Benzo[a]pyrene	1180		14	7.0
205-99-2	Benzo[b]fluoranthene	2560		16	8.2
191-24-2	Benzo[g,h,i]perylene	940		27	5.9
207-08-9	Benzo[k]fluoranthene	1390		11	4.8
218-01-9	Chrysene	2560		12	6.1
53-70-3	Dibenz(a,h)anthracene	664		27	5.5
206-44-0	Fluoranthene	4900		27	5.4
86-73-7	Fluorene	415		27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	1030		27	9.5
90-12-0	1-Methylnaphthalene	545		54	5.9
91-57-6	2-Methylnaphthalene	584		54	9.5
91-20-3	Naphthalene	476		54	5.9
85-01-8	Phenanthrene	1010		11	5.2
129-00-0	Pyrene	3930		27	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	37		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050613.b\1AE06026.D
Lab Smp Id: 680-89985-a-3-c msd
Inj Date : 06-MAY-2013 17:11
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-89985-a-3-c msd
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: 26 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	15.200	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)	1083422	40.0000	
* 6	Acenaphthene-d10	164	3.574	3.575	(1.000)	548460	40.0000	
* 10	Phenanthrene-d10	188	4.524	4.521	(1.000)	839987	40.0000	
$ 14	o-Terphenyl	230	4.824	4.820	(1.066)	44751	3.72241	244.8954
* 18	Chrysene-d12	240	6.549	6.535	(1.000)	759310	40.0000	
* 23	Perylene-d12	264	7.639	7.630	(1.000)	953129	40.0000	
2	Naphthalene	128	2.559	2.555	(1.004)	135365	5.30558	349.0516
3	2-Methylnaphthalene	141	2.965	2.961	(1.164)	84460	6.51375	428.5359
4	1-Methylnaphthalene	142	3.018	3.014	(1.184)	94568	6.08479	400.3153
5	Acenaphthylene	152	3.488	3.484	(0.976)	149393	5.79681	381.3692
7	Acenaphthene	154	3.590	3.591	(1.004)	60179	4.06611	267.5070
9	Fluorene	166	3.905	3.901	(1.093)	78040	4.62695	304.4049
11	Phenanthrene	178	4.541	4.537	(1.004)	234487	11.2680	741.3155
12	Anthracene	178	4.573	4.569	(1.011)	168081	7.58233	498.8376

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	4.711	4.702	(1.041)	133189	6.68247	439.6361
15 Fluoranthene	202	5.411	5.397	(1.196)	1308787	54.6693	3596.6633(AR)
16 Pyrene	202	5.582	5.562	(0.852)	1070222	43.8488	2884.7872(R)
17 Benzo(a)anthracene	228	6.544	6.524	(0.999)	453980	21.2738	1399.5910(R)
19 Chrysene	228	6.571	6.551	(1.003)	685827	28.5637	1879.1881(R)
20 Benzo(b)fluoranthene	252	7.372	7.347	(0.965)	718793	28.5317	1877.0844(RM)
21 Benzo(k)fluoranthene	252	7.377	7.368	(0.966)	485804	15.5438	1022.6198(RM)
22 Benzo(a)pyrene	252	7.591	7.576	(0.994)	341143	13.1854	867.4573(R)
24 Indeno(1,2,3-cd)pyrene	276	8.403	8.388	(1.100)	248664	11.4724	754.7659(M)
25 Dibenzo(a,h)anthracene	278	8.424	8.414	(1.103)	164590	7.40794	487.3643
26 Benzo(g,h,i)perylene	276	8.622	8.602	(1.129)	244433	10.4871	689.9402

QC Flag Legend

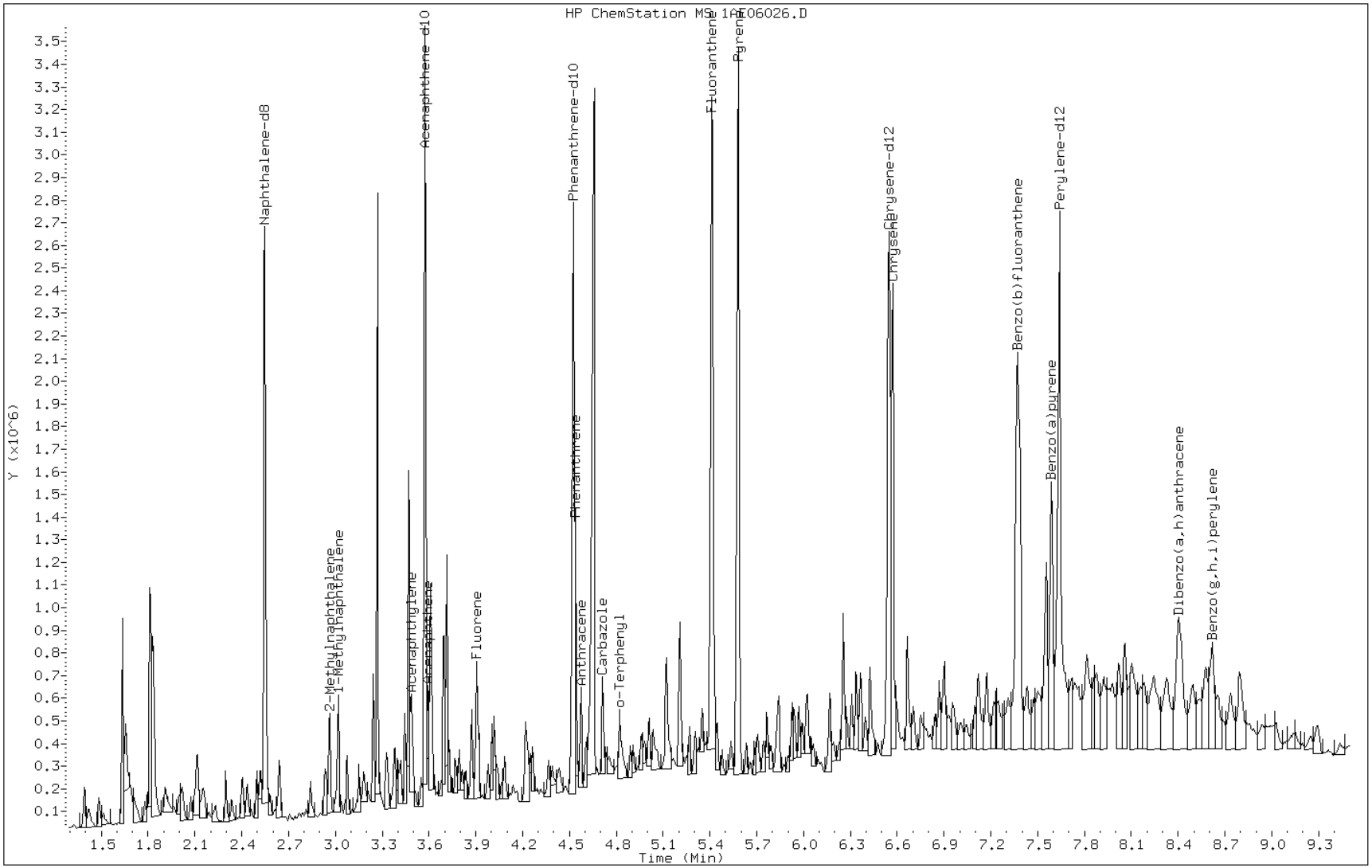
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1AE06026.D

Date: 06-MAY-2013 17:11

Client ID: Instrument: BSMA5973.i

Sample Info: 680-89985-a-3-c msd Operator: SCC



Manual Integration Report

Data File: 1AE06026.D
Inj. Date and Time: 06-MAY-2013 17:11
Instrument ID: BSMA5973.i
Client ID:
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/07/2013

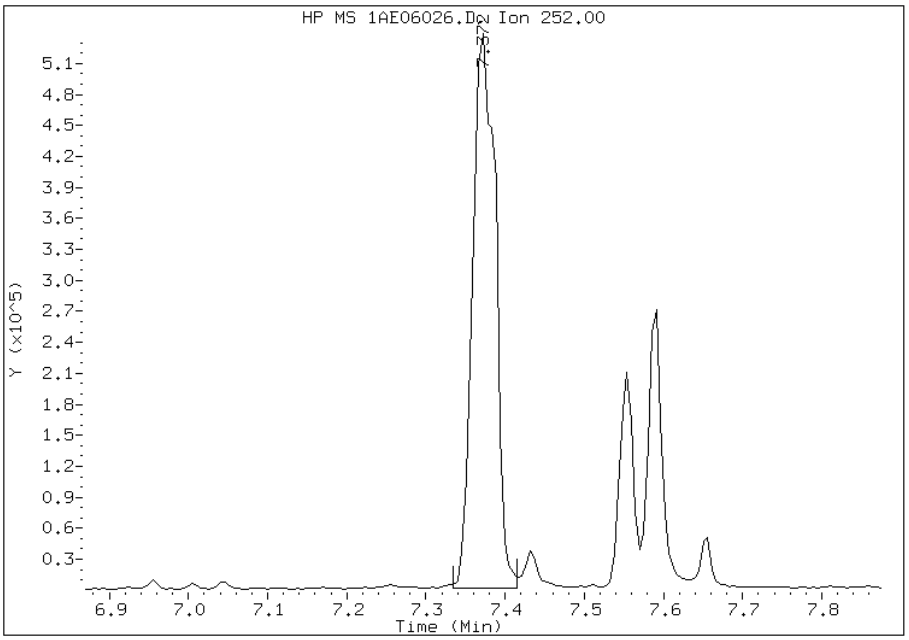
Processing Integration Results

RT: 7.37

Response: 1064920

Amount: 42

Conc: 2781



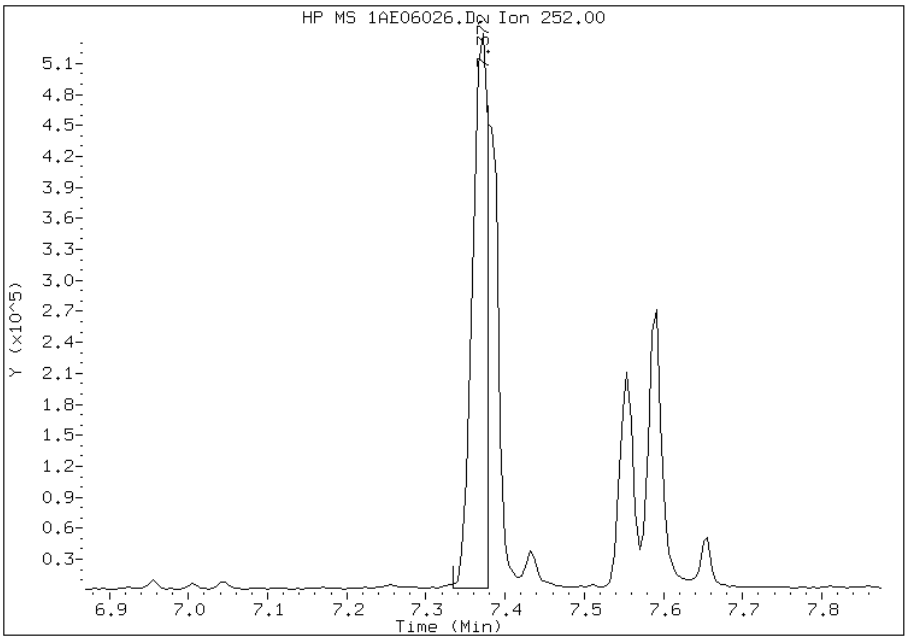
Manual Integration Results

RT: 7.37

Response: 718793

Amount: 29

Conc: 1877



Manually Integrated By: cantins
Modification Date: 07-May-2013 13:57
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE06026.D
Inj. Date and Time: 06-MAY-2013 17:11
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/07/2013

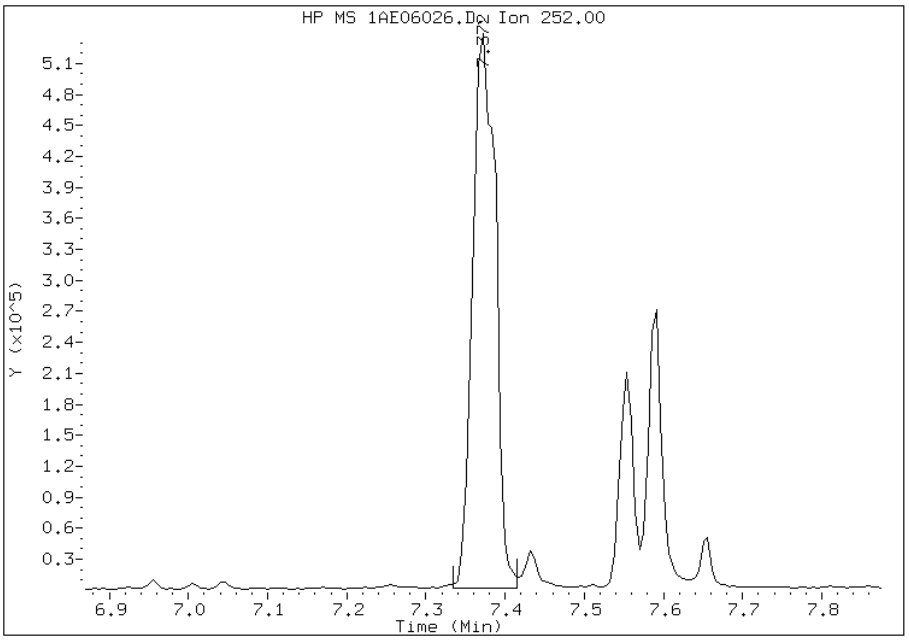
Processing Integration Results

RT: 7.37

Response: 1064920

Amount: 34

Conc: 2242



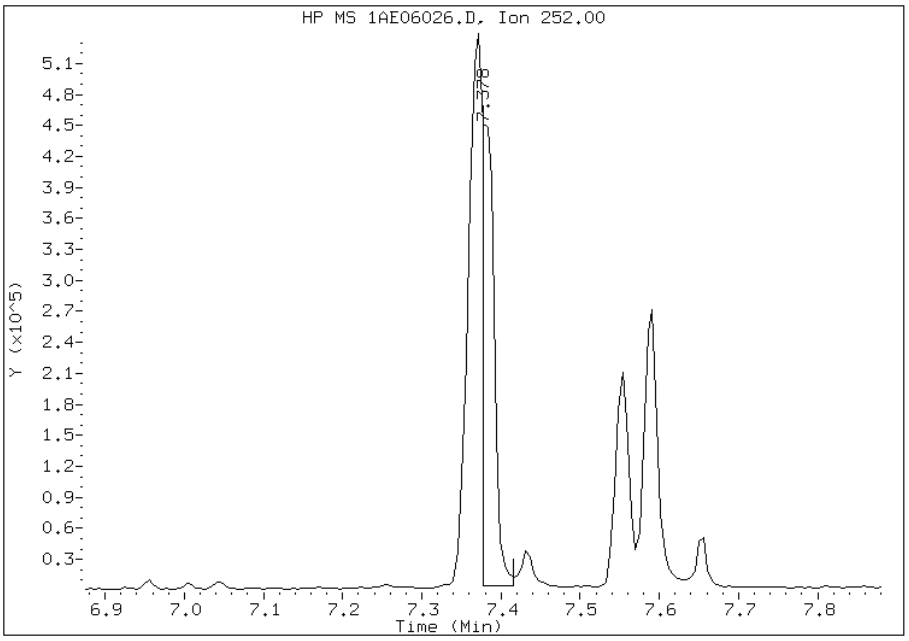
Manual Integration Results

RT: 7.38

Response: 485804

Amount: 16

Conc: 1023



Manually Integrated By: cantins
Modification Date: 07-May-2013 13:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE06026.D
Inj. Date and Time: 06-MAY-2013 17:11
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/07/2013

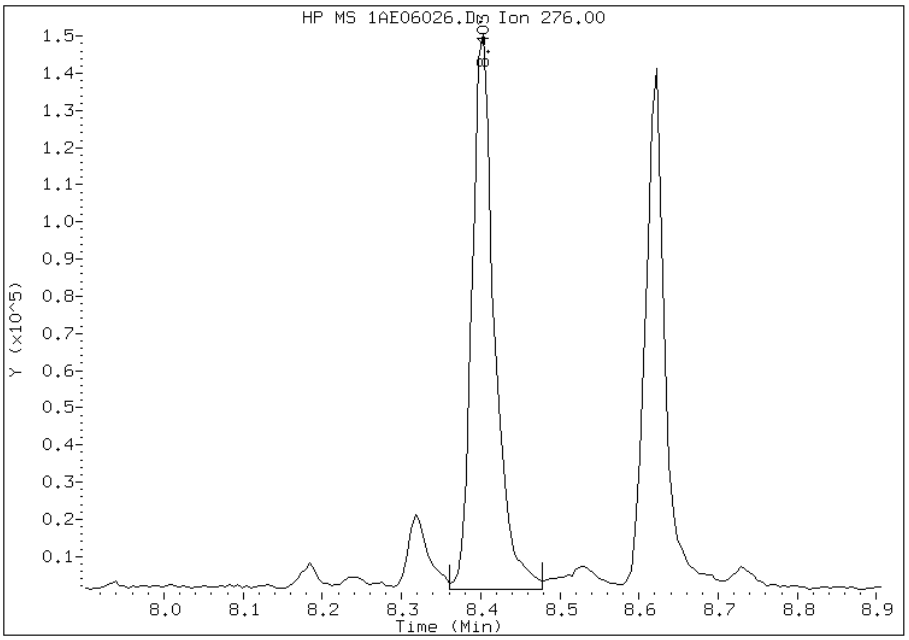
Processing Integration Results

RT: 8.40

Response: 292421

Amount: 13

Conc: 888



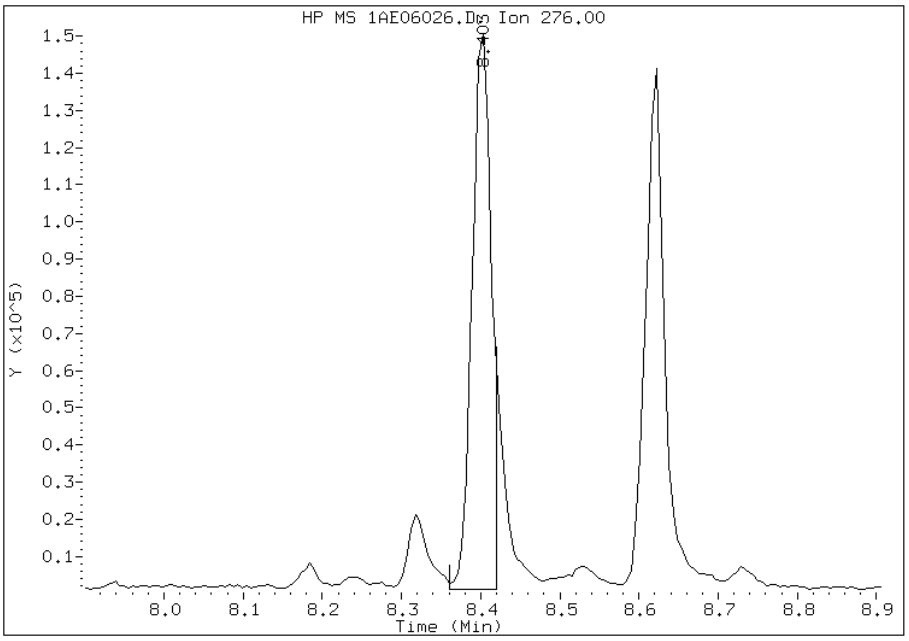
Manual Integration Results

RT: 8.40

Response: 248664

Amount: 11

Conc: 755



Manually Integrated By: cantins
Modification Date: 07-May-2013 13:57
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

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		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.: 680-89985-1

SDG No.: 68089985-1

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)
ZZZZZ		05/06/2013 13:22	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 13:37	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 13:52	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 14:07	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 14:22	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 14:37	4		DB-5MS 250(um)
ZZZZZ		05/06/2013 14:52	1		DB-5MS 250(um)
MB 660-137132/1-A		05/06/2013 15:08	1	1AE06018.D	DB-5MS 250(um)
LCS 660-137132/2-A		05/06/2013 15:24	1	1AE06019.D	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)
680-89985-3 MS	CV1067B-CS MS	05/06/2013 16:56	1	1AE06025.D	DB-5MS 250(um)
680-89985-3 MSD	CV1067B-CS MSD	05/06/2013 17:11	1	1AE06026.D	DB-5MS 250(um)
ZZZZZ		05/06/2013 17:26	4		DB-5MS 250(um)
ZZZZZ		05/06/2013 17:42	4		DB-5MS 250(um)
ZZZZZ		05/06/2013 17:57	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 18:12	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 18:27	4		DB-5MS 250(um)
ZZZZZ		05/06/2013 18:42	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 18:57	4		DB-5MS 250(um)
ZZZZZ		05/06/2013 19:12	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 19:27	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 19:43	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 19:58	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 20:12	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 20:27	4		DB-5MS 250(um)
ZZZZZ		05/06/2013 20:43	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 20:58	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 21:13	1		DB-5MS 250(um)
ZZZZZ		05/06/2013 21:28	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.: 680-89985-1

SDG No.: 68089985-1

Instrument ID: BSMA5973 Start Date: 05/07/2013 11:47

Analysis Batch Number: 137194 End Date: 05/07/2013 17:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/07/2013 11:47	1		DB-5MS 250(um)
ZZZZZ		05/07/2013 12:02	1		DB-5MS 250(um)
DFTPP 660-137194/2		05/07/2013 12:17	1	1AE07002.D	DB-5MS 250(um)
CCVIS 660-137194/3		05/07/2013 12:34	1	1AE07003.D	DB-5MS 250(um)
ZZZZZ		05/07/2013 13:06	1		DB-5MS 250(um)
680-89985-1	CV0725A-CS	05/07/2013 13:21	1	1AE07005.D	DB-5MS 250(um)
680-89985-2	CV1067A-CS	05/07/2013 13:36	1	1AE07006.D	DB-5MS 250(um)
680-89985-4	HP0333A-CS	05/07/2013 13:51	1	1AE07007.D	DB-5MS 250(um)
680-89985-5	HP0333A-CSD	05/07/2013 14:06	1	1AE07008.D	DB-5MS 250(um)
680-89985-3	CV1067B-CS	05/07/2013 14:21	1	1AE07009.D	DB-5MS 250(um)
680-89985-6	HP0333B-CS	05/07/2013 14:36	1	1AE07010.D	DB-5MS 250(um)
680-89985-7	HP0334A-CS	05/07/2013 14:51	1	1AE07011.D	DB-5MS 250(um)
680-89985-8	CV1114A-CS	05/07/2013 15:06	1	1AE07012.D	DB-5MS 250(um)
680-89985-9	CV1114A-CSD	05/07/2013 15:22	1	1AE07013.D	DB-5MS 250(um)
680-89985-10	CV1114B-CS	05/07/2013 15:37	1	1AE07014.D	DB-5MS 250(um)
680-89985-11	CV1166A-CS	05/07/2013 15:52	1	1AE07015.D	DB-5MS 250(um)
680-89985-12	CV1166B-CS	05/07/2013 16:07	1	1AE07016.D	DB-5MS 250(um)
680-89985-13	CV1166B-CSD	05/07/2013 16:22	1	1AE07017.D	DB-5MS 250(um)
680-89985-14	CV1177A-CS	05/07/2013 16:37	1	1AE07018.D	DB-5MS 250(um)
680-89985-15	CV1177B-CS	05/07/2013 16:52	1	1AE07019.D	DB-5MS 250(um)
680-89985-16	CV1006A-CS	05/07/2013 17:07	1	1AE07020.D	DB-5MS 250(um)
680-89985-17	CV1006B-CS	05/07/2013 17:22	1	1AE07021.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Instrument ID: BSMA5973 Start Date: 05/09/2013 09:54

Analysis Batch Number: 137283 End Date: 05/09/2013 21:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/09/2013 09:54	1		DB-5MS 250(um)
ZZZZZ		05/09/2013 10:10	1		DB-5MS 250(um)
DFTPP 660-137283/2		05/09/2013 10:25	1		DB-5MS 250(um)
DFTPP 660-137283/3		05/09/2013 10:42	1	1AE09003.D	DB-5MS 250(um)
CCVIS 660-137283/4		05/09/2013 10:56	1	1AE09004.D	DB-5MS 250(um)
ZZZZZ		05/09/2013 11:11	1		DB-5MS 250(um)
ZZZZZ		05/09/2013 11:26	1		DB-5MS 250(um)
ZZZZZ		05/09/2013 11:41	1		DB-5MS 250(um)
ZZZZZ		05/09/2013 11:56	1		DB-5MS 250(um)
ZZZZZ		05/09/2013 12:11	1		DB-5MS 250(um)
ZZZZZ		05/09/2013 12:26	4		DB-5MS 250(um)
680-89985-8 DL	CV1114A-CS DL	05/09/2013 12:41	4	1AE09011.D	DB-5MS 250(um)
ZZZZZ		05/09/2013 12:56	1		DB-5MS 250(um)
ZZZZZ		05/09/2013 13:11	1		DB-5MS 250(um)
ZZZZZ		05/09/2013 13:26	1		DB-5MS 250(um)
ZZZZZ		05/09/2013 13:42	4		DB-5MS 250(um)
ZZZZZ		05/09/2013 13:57	4		DB-5MS 250(um)
ZZZZZ		05/09/2013 14:12	1		DB-5MS 250(um)
ZZZZZ		05/09/2013 14:27	1		DB-5MS 250(um)
ZZZZZ		05/09/2013 14:42	1		DB-5MS 250(um)
680-89985-18	CV1165A-CS	05/09/2013 14:57	1	1AE09020.D	DB-5MS 250(um)
680-89985-19	CV1165B-CS	05/09/2013 15:12	1	1AE09021.D	DB-5MS 250(um)
680-89985-20	CV1165B-CSD	05/09/2013 15:27	4	1AE09022.D	DB-5MS 250(um)
ZZZZZ		05/09/2013 15:42	1		DB-5MS 250(um)
ZZZZZ		05/09/2013 15:57	1		DB-5MS 250(um)
680-89985-A-22-B MS		05/09/2013 16:12	1	1AE09025.D	DB-5MS 250(um)
680-89985-A-22-C MSD		05/09/2013 16:28	1	1AE09026.D	DB-5MS 250(um)
ZZZZZ		05/09/2013 16:43	4		DB-5MS 250(um)
ZZZZZ		05/09/2013 17:08	1		DB-5MS 250(um)
ZZZZZ		05/09/2013 17:23	1		DB-5MS 250(um)
ZZZZZ		05/09/2013 17:38	1		DB-5MS 250(um)
ZZZZZ		05/09/2013 17:53	1		DB-5MS 250(um)
ZZZZZ		05/09/2013 18:09	1		DB-5MS 250(um)
ZZZZZ		05/09/2013 18:24	1		DB-5MS 250(um)
ZZZZZ		05/09/2013 18:39	4		DB-5MS 250(um)
ZZZZZ		05/09/2013 18:54	1		DB-5MS 250(um)
ZZZZZ		05/09/2013 19:09	1		DB-5MS 250(um)
ZZZZZ		05/09/2013 19:24	4		DB-5MS 250(um)
ZZZZZ		05/09/2013 19:40	1		DB-5MS 250(um)
ZZZZZ		05/09/2013 19:55	1		DB-5MS 250(um)
ZZZZZ		05/09/2013 20:10	1		DB-5MS 250(um)
ZZZZZ		05/09/2013 20:25	4		DB-5MS 250(um)
ZZZZZ		05/09/2013 20:40	4		DB-5MS 250(um)
ZZZZZ		05/09/2013 20:55	4		DB-5MS 250(um)
ZZZZZ		05/09/2013 21:10	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Instrument ID: BSMA5973 Start Date: 05/09/2013 09:54

Analysis Batch Number: 137283 End Date: 05/09/2013 21:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/09/2013 21:25	1		DB-5MS 250(um)
ZZZZZ		05/09/2013 21:41	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Instrument ID: BSMA5973 Start Date: 05/08/2013 13:41

Analysis Batch Number: 137292 End Date: 05/08/2013 18:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/08/2013 13:41	1		DB-5MS 250(um)
ZZZZZ		05/08/2013 13:56	1		DB-5MS 250(um)
DFTPP 660-137292/2		05/08/2013 14:11	1	1AE08002.D	DB-5MS 250(um)
CCVIS 660-137292/3		05/08/2013 14:31	1	1AE08003.D	DB-5MS 250(um)
ZZZZZ		05/08/2013 14:49	1		DB-5MS 250(um)
ZZZZZ		05/08/2013 15:16	1		DB-5MS 250(um)
ZZZZZ		05/08/2013 15:30	1		DB-5MS 250(um)
ZZZZZ		05/08/2013 15:45	1		DB-5MS 250(um)
ZZZZZ		05/08/2013 16:00	1		DB-5MS 250(um)
ZZZZZ		05/08/2013 16:16	1		DB-5MS 250(um)
MB 660-137234/1-A		05/08/2013 17:58	1	1AE08010.D	DB-5MS 250(um)
LCS 660-137234/2-A		05/08/2013 18:13	1	1AE08011.D	DB-5MS 250(um)
ZZZZZ		05/08/2013 18:28	1		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Batch Number: 137132 Batch Start Date: 05/06/13 08:14 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 05/06/13 13:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EX-625LVI SPK 00021	EXLLSURINT 00181	
MB 660-137132/1		3546, 8270C LL		15.12 g	1 mL			1 mL	
LCS 660-137132/2		3546, 8270C LL		14.92 g	1 mL		1 mL	1 mL	
680-89985-A-1	CV0725A-CS	3546, 8270C LL	T	15.13 g	1 mL			1 mL	
680-89985-A-2	CV1067A-CS	3546, 8270C LL	T	14.94 g	1 mL			1 mL	
680-89985-A-3	CV1067B-CS	3546, 8270C LL	T	15.20 g	1 mL			1 mL	
680-89985-A-3 MS	CV1067B-CS	3546, 8270C LL	T	15.20 g	1 mL		1 mL	1 mL	
680-89985-A-3 MSD	CV1067B-CS	3546, 8270C LL	T	15.20 g	1 mL	1 mL		1 mL	
680-89985-A-4	HP0333A-CS	3546, 8270C LL	T	15.39 g	1 mL			1 mL	
680-89985-A-5	HP0333A-CSD	3546, 8270C LL	T	15.26 g	1 mL			1 mL	
680-89985-A-6	HP0333B-CS	3546, 8270C LL	T	15.00 g	1 mL			1 mL	
680-89985-A-7	HP0334A-CS	3546, 8270C LL	T	15.29 g	1 mL			1 mL	
680-89985-A-8	CV1114A-CS	3546, 8270C LL	T	15.36 g	1 mL			1 mL	
680-89985-A-9	CV1114A-CSD	3546, 8270C LL	T	15.08 g	1 mL			1 mL	
680-89985-A-10	CV1114B-CS	3546, 8270C LL	T	14.90 g	1 mL			1 mL	
680-89985-A-11	CV1166A-CS	3546, 8270C LL	T	14.97 g	1 mL			1 mL	
680-89985-A-12	CV1166B-CS	3546, 8270C LL	T	14.91 g	1 mL			1 mL	
680-89985-A-13	CV1166B-CSD	3546, 8270C LL	T	15.29 g	1 mL			1 mL	
680-89985-A-14	CV1177A-CS	3546, 8270C LL	T	15.14 g	1 mL			1 mL	
680-89985-A-15	CV1177B-CS	3546, 8270C LL	T	15.43 g	1 mL			1 mL	
680-89985-A-16	CV1006A-CS	3546, 8270C LL	T	15.43 g	1 mL			1 mL	
680-89985-A-17	CV1006B-CS	3546, 8270C LL	T	15.37 g	1 mL			1 mL	

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

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Batch Number: 137132 Batch Start Date: 05/06/13 08:14 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 05/06/13 13:30

Batch Notes	
Acetone Lot #	EX-ACETON BOT 52
Balance ID	B001
Batch Comment	RUSH
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL 56
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 56
MeCl2/Acetone Lot #	DCM/ACETON 77
Microwave Start Time	10:50 5/6/13
Microwave Stop Time	11:25 5/6/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	EX-OTTOWA SAND 17
Person's name who did the prep	SAUREL
SOP Number	TP-EX-014
Person who witnessed spiking	RYAN
Surrogate Lot Number	EXLLSURINT_181
Water Bath ID	TURBOVAP2 #1-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

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

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Batch Number: 137234 Batch Start Date: 05/08/13 11:30 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 05/08/13 17:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00022	EXLLSURINT 00181		
MB 660-137234/1		3546, 8270C LL		15.01 g	1 mL		1 mL		
LCS 660-137234/2		3546, 8270C LL		14.98 g	1 mL	1 mL	1 mL		
680-89985-A-18	CV1165A-CS	3546, 8270C LL	T	15.01 g	1 mL		1 mL		
680-89985-A-19	CV1165B-CS	3546, 8270C LL	T	14.95 g	1 mL		1 mL		
680-89985-A-20	CV1165B-CSD	3546, 8270C LL	T	14.95 g	1 mL		1 mL		
680-89985-A-22 MS		3546, 8270C LL	T	15.04 g	1 mL	1 mL	1 mL		
680-89985-A-22 MSD		3546, 8270C LL	T	15.02 g	1 mL	1 mL	1 mL		

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

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Batch Number: 137234 Batch Start Date: 05/08/13 11:30 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 05/08/13 17:30

Batch Notes	
Acetone Lot #	ID:EX-ACETON BOT_00052(1531882)
Balance ID	b001
Batch Comment	rush
Person's name who did the concentration	Ryan Nolan
Exchange Solvent Lot #	ex-mc cycl 56
Exchange Solvent Name	dcm
Final Concentrator Volume	1ml mL
MeCL2 Lot #	ID:EX-MC CYCL_00056(1535492)
MeCl2/Acetone Lot #	ID:DCM/ACETON_00076(1541538)
Microwave Start Time	13:40 5/8/13
Microwave Stop Time	14:15 5/8/13
MS Lot Number	680-89985-22
Na2SO4 Lot Number	ID:EX-Na2SO4a_00066(27963001)
Ottawa Sand Lot #	ID:OTTAWA SAND_0017(1544031)
Person's name who did the prep	Ryan Nolan
SOP Number	tp-ex014
Person who witnessed spiking	Abraham
Surrogate Lot Number	ID:EXLLSURINT_00181(1546476)
Water Bath ID	Turbo Vap #1-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

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

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89985-1

SDG No.: 68089985-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0725A-CS	680-89985-1
CV1067A-CS	680-89985-2
CV1067B-CS	680-89985-3
HP0333A-CS	680-89985-4
HP0333A-CSD	680-89985-5
HP0333B-CS	680-89985-6
HP0334A-CS	680-89985-7
CV1114A-CS	680-89985-8
CV1114A-CSD	680-89985-9
CV1114B-CS	680-89985-10
CV1166A-CS	680-89985-11
CV1166B-CS	680-89985-12
CV1166B-CSD	680-89985-13
CV1177A-CS	680-89985-14
CV1177B-CS	680-89985-15
CV1006A-CS	680-89985-16
CV1006B-CS	680-89985-17
CV1165A-CS	680-89985-18
CV1165B-CS	680-89985-19
CV1165B-CSD	680-89985-20

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89985-1

SDG Number: 68089985-1

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89985-1

SDG Number: 68089985-1

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 05/06/2013 10:22 End Date: 05/06/2013 10:22

Lab Sample ID	D/F	Type	Time	Analytes: Moist
680-89985-1	1	T	10:22	X
680-89985-2	1	T	10:22	X
680-89985-3	1	T	10:22	X
680-89985-3 MS	1	T	10:22	X
680-89985-3 MSD	1	T	10:22	X
680-89985-4	1	T	10:22	X
680-89985-5	1	T	10:22	X
680-89985-6	1	T	10:22	X
680-89985-7	1	T	10:22	X
680-89985-8	1	T	10:22	X
680-89985-9	1	T	10:22	X
680-89985-10	1	T	10:22	X
680-89985-11	1	T	10:22	X
680-89985-12	1	T	10:22	X
680-89985-13	1	T	10:22	X
680-89985-14	1	T	10:22	X
680-89985-15	1	T	10:22	X
680-89985-16	1	T	10:22	X
680-89985-17	1	T	10:22	X
680-89985-18	1	T	10:22	X
680-89985-19	1	T	10:22	X
680-89985-20	1	T	10:22	X
ZZZZZZ			10:22	
ZZZZZZ			10:22	
680-89985-A-22 MS	1	T	10:22	X
680-89985-A-22 MSD	1	T	10:22	X
ZZZZZZ			10:22	
ZZZZZZ			10:22	
ZZZZZZ			10:22	
ZZZZZZ			10:22	
ZZZZZZ			10:22	
ZZZZZZ			10:22	
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ZZZZZZ			10:22	
ZZZZZZ			10:22	
ZZZZZZ			10:22	
ZZZZZZ			10:22	

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Batch Number: 137139 Batch Start Date: 05/06/13 10:22 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-89985-A-1	CV0725A-CS	Moisture	T	1	0 g	4.81 g	4.25 g		
680-89985-A-2	CV1067A-CS	Moisture	T	2	0 g	4.61 g	3.76 g		
680-89985-A-3	CV1067B-CS	Moisture	T	3	0 g	4.51 g	3.31 g		
680-89985-A-3 MS	CV1067B-CS	Moisture	T	3	0 g	4.51 g	3.31 g		
680-89985-A-3 MSD	CV1067B-CS	Moisture	T	3	0 g	4.51 g	3.31 g		
680-89985-A-4	HP0333A-CS	Moisture	T	4	0 g	4.88 g	3.64 g		
680-89985-A-5	HP0333A-CSD	Moisture	T	5	0 g	4.66 g	3.41 g		
680-89985-A-6	HP0333B-CS	Moisture	T	6	0 g	5.60 g	4.68 g		
680-89985-A-7	HP0334A-CS	Moisture	T	7	0 g	4.52 g	3.56 g		
680-89985-A-8	CV1114A-CS	Moisture	T	8	0 g	4.75 g	4.14 g		
680-89985-A-9	CV1114A-CSD	Moisture	T	9	0 g	4.49 g	3.69 g		
680-89985-A-10	CV1114B-CS	Moisture	T	10	0 g	4.56 g	3.72 g		
680-89985-A-11	CV1166A-CS	Moisture	T	11	0 g	5.73 g	4.46 g		
680-89985-A-12	CV1166B-CS	Moisture	T	12	0 g	4.12 g	3.25 g		
680-89985-A-13	CV1166B-CSD	Moisture	T	13	0 g	4.54 g	3.63 g		
680-89985-A-14	CV1177A-CS	Moisture	T	14	0 g	4.43 g	3.67 g		
680-89985-A-15	CV1177B-CS	Moisture	T	15	0 g	4.80 g	3.93 g		
680-89985-A-16	CV1006A-CS	Moisture	T	16	0 g	4.87 g	3.89 g		
680-89985-A-17	CV1006B-CS	Moisture	T	17	0 g	4.59 g	3.63 g		
680-89985-A-18	CV1165A-CS	Moisture	T	18	0 g	4.77 g	3.93 g		
680-89985-A-19	CV1165B-CS	Moisture	T	19	0 g	5.08 g	3.95 g		
680-89985-A-20	CV1165B-CSD	Moisture	T	20	0 g	5.63 g	4.48 g		
680-89985-A-22 MS		Moisture	T	22	0 g	4.50 g	4.07 g		
680-89985-A-22 MSD		Moisture	T	22	0 g	4.50 g	4.07 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	5.6.13

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89985-1

SDG No.: 68089985-1

Batch Number: 137139 Batch Start Date: 05/06/13 10:22 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Basis	Basis Description
T	Total/NA

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

Shipping and Receiving Documents

Serial Number 64600

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Alternate Laboratory Name/Location: Test Am Tampa

680-89985-01 Chain of Custody

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	200514813 56	AL

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

(b) (6)

CLIENT FAX

(b) (6)

CLIENT ADDRESS (b) (6)

COMPANY CONTRAC

PAGE 1 OF 3

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	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: LL PAH	REQUIRED ANALYSIS: RCRA 8 Metals	NUMBER OF CONTAINERS SUBMITTED	REMARKS
		PRESERVATIVE									
5-1-13	1000	CV0725A-CS	C		X			X			
	1040	CV1067A-CS	C		X			X			
	1050	CV1067B-CS	C		X			X	X		
	0920	~~CV~~ HP0333A-CS	C		X			X			
	0820	HP0333A-CSD	C		X			X			
	0930	HP0333B-CS	C		X			X			
	0850	HP0334A-CS	C		X			X			
	1325	CV1114A-CS	C		X			X			
	1325	CV1114A-CSD	C		X			X			
	1335	CV1114B-CS	C		X			X	X		
	1245	CV1166A-CS	C		X			X			
	1250	CV1166B-CS	C		X			X			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	5-2-13	1600						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	5/3/13	1115						

LABORATORY USE ONLY

680-89985

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
						5.2°C (4-07

TAL8240-680 (1008)

Serial Number 64601

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Alternate Laboratory Name/Location

680-89985-02 Chain of Custody

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	60051418-1356	AL

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

(b) (6)

CLIENT NAME	CLIENT E-MAIL	CLIENT FAX
(b) (6)		

CLIENT ADDRESS (b) (6)

COMPANY CONTR.

PAGE 2 OF 3

STANDARD REPORT DELIVERY ○
DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: LL PAH	RCRA 8 Metals	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
5-1-13	1250	CV1166B-CSD	C		X			X			X	
	1400	CV1177A-CS	C		X			X			X	
	1410	CV1177B-CS	C		X			X			X	
5-2-13	1000	CV1006A-CS	C		X			X	X		X	
	1010	CV1006B-CS	C		X			X			X	
	0920	CV1165A-CS	C		X			X			X	
	0930	CV1165B-CS	C		X			X			X	
20	0930	CV1165B-CSD	C		X			X			X	
	1215	CV1237A-CS	C		X			X			X	
	1225	CV1237B-CS	C		X			X			X	
	1250	CV1302A-CS	C		X			X			X	
	1255	CV1302B-CS	C		X			X			X	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	5-2-13	1600						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	5/3/13	1115						

680-89985

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS

TAL-8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89985-1
SDG Number: 68089985-1

Login Number: 89985
List Number: 1
Creator: Snead, Joshua

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	

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: 680-89985-1
TestAmerica Sample Delivery Group: 68089985-1
Client Project/Site: 35th Avenue Superfund Site

For:
Oneida Total Integrated Enterprises LLC
1220 Kennestone Circle
Suite 106
Marietta, Georgia 30060

Attn: Ms. Limari F Krebs

Authorized for release by:
5/14/2013 5:01:27 PM
Bernard Kirkland, Project Manager I
(912)354-7858 e.3238
bernard.kirkland@testamericainc.com

Designee for

Lisa Harvey, Project Manager II
lisa.harvey@testamericainc.com

Job ID: 680-89985-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89985-1

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

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

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

RECEIPT

The samples were received on 05/03/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 4.4º C, 5.2º C and 5.6º C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0725A-CS (680-89985-1), CV1067A-CS (680-89985-2), CV1067B-CS (680-89985-3), HP0333A-CS (680-89985-4), HP0333A-CSD (680-89985-5), HP0333B-CS (680-89985-6), HP0334A-CS (680-89985-7), CV1114A-CS (680-89985-8), CV1114A-CSD (680-89985-9), CV1114B-CS (680-89985-10), CV1166A-CS (680-89985-11), CV1166B-CS (680-89985-12), CV1166B-CSD (680-89985-13), CV1177A-CS (680-89985-14), CV1177B-CS (680-89985-15), CV1006A-CS (680-89985-16), CV1006B-CS (680-89985-17), CV1165A-CS (680-89985-18), CV1165B-CS (680-89985-19) and CV1165B-CSD (680-89985-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 05/06/2013 and 05/08/2013 and analyzed on 05/07/2013 and 05/09/2013.

Samples CV1114A-CS (680-89985-8)[4X] and CV1165B-CSD (680-89985-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MSD of sample CV1067B-CSMSD (680-89985-3) in batch 660-137156. Several analytes exceeded the rpd limit.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-89985-22 in batch 660-137283. Fluoranthene and Pyrene exceeded the rpd limit.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

Sample Summary

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

TestAmerica Job ID: 680-89985-1
SDG: 68089985-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89985-1	CV0725A-CS	Solid	05/01/13 10:00	05/03/13 11:15
680-89985-2	CV1067A-CS	Solid	05/01/13 10:40	05/03/13 11:15
680-89985-3	CV1067B-CS	Solid	05/01/13 10:50	05/03/13 11:15
680-89985-4	HP0333A-CS	Solid	05/01/13 09:20	05/03/13 11:15
680-89985-5	HP0333A-CSD	Solid	05/01/13 09:20	05/03/13 11:15
680-89985-6	HP0333B-CS	Solid	05/01/13 09:30	05/03/13 11:15
680-89985-7	HP0334A-CS	Solid	05/01/13 08:50	05/03/13 11:15
680-89985-8	CV1114A-CS	Solid	05/01/13 13:25	05/03/13 11:15
680-89985-9	CV1114A-CSD	Solid	05/01/13 13:25	05/03/13 11:15
680-89985-10	CV1114B-CS	Solid	05/01/13 13:35	05/03/13 11:15
680-89985-11	CV1166A-CS	Solid	05/01/13 12:45	05/03/13 11:15
680-89985-12	CV1166B-CS	Solid	05/01/13 12:50	05/03/13 11:15
680-89985-13	CV1166B-CSD	Solid	05/01/13 12:50	05/03/13 11:15
680-89985-14	CV1177A-CS	Solid	05/01/13 14:00	05/03/13 11:15
680-89985-15	CV1177B-CS	Solid	05/01/13 14:10	05/03/13 11:15
680-89985-16	CV1006A-CS	Solid	05/02/13 10:00	05/03/13 11:15
680-89985-17	CV1006B-CS	Solid	05/02/13 10:10	05/03/13 11:15
680-89985-18	CV1165A-CS	Solid	05/02/13 09:20	05/03/13 11:15
680-89985-19	CV1165B-CS	Solid	05/02/13 09:30	05/03/13 11:15
680-89985-20	CV1165B-CSD	Solid	05/02/13 09:30	05/03/13 11:15

Method Summary

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

TestAmerica Job ID: 680-89985-1
SDG: 68089985-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less han the RL but greater han or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds he control limits
F	RPD of the MS and MSD exceeds the control limits
E	Result exceeded calibration range.

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 ra io
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample ID: CV0725A-CS

Lab Sample ID: 680-89985-1

Date Collected: 05/01/13 10:00
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 88.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Acenaphthylene	**73**		45	5.6	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Anthracene	**140**		9.4	4.7	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Benzo[a]anthracene	**360**		9.0	4.4	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Benzo[a]pyrene	**330**		12	5.8	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Benzo[b]fluoranthene	**450**		14	6.8	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Benzo[g,h,i]perylene	**330**		22	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Benzo[k]fluoranthene	**220**		9.0	4.0	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Chrysene	**340**		10	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Dibenz(a,h)anthracene	**88**		22	4.6	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Fluoranthene	**510**		22	4.5	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Fluorene	**36**		22	4.6	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Indeno[1,2,3-cd]pyrene	**300**		22	8.0	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
1-Methylnaphthalene	**100**		45	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
2-Methylnaphthalene	**120**		45	8.0	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Naphthalene	**110**		45	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Phenanthrene	**390**		9.0	4.4	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1
Pyrene	**460**		22	4.2	ug/Kg	☼	05/06/13 08:14	05/07/13 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*05/06/13 08:14*	*05/07/13 13:21*	*1*

Client Sample ID: CV1067A-CS

Lab Sample ID: 680-89985-2

Date Collected: 05/01/13 10:40
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 81.6

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	☼	05/06/13 08:14	05/07/13 13:36	1
Acenaphthylene	**31**	**J**	49	6.2	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Anthracene	**49**		10	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Benzo[a]anthracene	**150**		9.8	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Benzo[a]pyrene	**120**		13	6.4	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Benzo[b]fluoranthene	**190**		15	7.5	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Benzo[g,h,i]perylene	**170**		25	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Benzo[k]fluoranthene	**77**		9.8	4.4	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Chrysene	**160**		11	5.5	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Dibenz(a,h)anthracene	**41**		25	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Fluoranthene	**200**		25	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Fluorene	**10**	**J**	25	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Indeno[1,2,3-cd]pyrene	**110**		25	8.7	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
1-Methylnaphthalene	**75**		49	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
2-Methylnaphthalene	**83**		49	8.7	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Naphthalene	**70**		49	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Phenanthrene	**190**		9.8	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1
Pyrene	**170**		25	4.6	ug/Kg	☼	05/06/13 08:14	05/07/13 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*05/06/13 08:14*	*05/07/13 13:36*	*1*

Client Sample ID: CV1067B-CS

Lab Sample ID: 680-89985-3

Date Collected: 05/01/13 10:50
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 73.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Acenaphthylene	**50**	**J**	54	6.7	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Anthracene	**97**		11	5.6	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Benzo[a]anthracene	**220**	**F**	11	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Benzo[a]pyrene	**230**	**F**	14	7.0	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Benzo[b]fluoranthene	**450**	**F**	16	8.2	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Benzo[g,h,i]perylene	**200**		27	5.9	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Benzo[k]fluoranthene	**170**	**F**	11	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Chrysene	**410**	**F**	12	6.1	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Dibenz(a,h)anthracene	**54**		27	5.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Fluoranthene	**670**	**F**	27	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Fluorene	**19**	**J**	27	5.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Indeno[1,2,3-cd]pyrene	**180**		27	9.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
1-Methylnaphthalene	**140**		54	5.9	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
2-Methylnaphthalene	**140**		54	9.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Naphthalene	**100**	**F**	54	5.9	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Phenanthrene	**580**		11	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1
Pyrene	**420**	**F**	27	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*47*		*30 - 130*	*05/06/13 08:14*	*05/07/13 14:21*	*1*

Client Sample ID: HP0333A-CS

Lab Sample ID: 680-89985-4

Date Collected: 05/01/13 09:20
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 74.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Acenaphthylene	**24**	**J**	52	6.5	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Anthracene	**41**		11	5.5	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Benzo[a]anthracene	**210**		10	5.1	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Benzo[a]pyrene	**220**		14	6.8	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Benzo[b]fluoranthene	**290**		16	8.0	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Benzo[g,h,i]perylene	**220**		26	5.7	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Benzo[k]fluoranthene	**140**		10	4.7	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Chrysene	**250**		12	5.9	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Dibenz(a,h)anthracene	**70**		26	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Fluoranthene	**220**		26	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Fluorene	**19**	**J**	26	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Indeno[1,2,3-cd]pyrene	**190**		26	9.3	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
1-Methylnaphthalene	**88**		52	5.7	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
2-Methylnaphthalene	**110**		52	9.3	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Naphthalene	**140**		52	5.7	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Phenanthrene	**250**		10	5.1	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1
Pyrene	**200**		26	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*05/06/13 08:14*	*05/07/13 13:51*	*1*

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

TestAmerica Job ID: 680-89985-1
SDG: 68089985-1

Client Sample ID: HP0333A-CSD

Lab Sample ID: 680-89985-5

Date Collected: 05/01/13 09:20
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 73.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Acenaphthylene	**20**	**J**	54	6.7	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Anthracene	**55**		11	5.6	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Benzo[a]anthracene	**250**		11	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Benzo[a]pyrene	**220**		14	7.0	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Benzo[b]fluoranthene	**320**		16	8.2	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Benzo[g,h,i]perylene	**230**		27	5.9	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Benzo[k]fluoranthene	**150**		11	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Chrysene	**290**		12	6.0	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Dibenz(a,h)anthracene	**70**		27	5.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Fluoranthene	**220**		27	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Fluorene	**24**	**J**	27	5.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Indeno[1,2,3-cd]pyrene	**210**		27	9.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
1-Methylnaphthalene	**140**		54	5.9	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
2-Methylnaphthalene	**160**		54	9.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Naphthalene	**150**		54	5.9	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Phenanthrene	**300**		11	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1
Pyrene	**200**		27	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*30 - 130*	*05/06/13 08:14*	*05/07/13 14:06*	*1*

Client Sample ID: HP0333B-CS

Lab Sample ID: 680-89985-6

Date Collected: 05/01/13 09:30
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 83.6

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	☼	05/06/13 08:14	05/07/13 14:36	1
Acenaphthylene	**10**	**J**	48	6.0	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Anthracene	**15**		10	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Benzo[a]anthracene	**66**		9.6	4.7	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Benzo[a]pyrene	**48**		12	6.2	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Benzo[b]fluoranthene	**80**		15	7.3	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Benzo[g,h,i]perylene	**39**		24	5.3	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Benzo[k]fluoranthene	**30**		9.6	4.3	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Chrysene	**64**		11	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Dibenz(a,h)anthracene	**12**	**J**	24	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Fluoranthene	**62**		24	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Fluorene	**6.7**	**J**	24	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Indeno[1,2,3-cd]pyrene	**34**		24	8.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
1-Methylnaphthalene	**23**	**J**	48	5.3	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
2-Methylnaphthalene	**33**	**J**	48	8.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Naphthalene	**48**		48	5.3	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Phenanthrene	**59**		9.6	4.7	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1
Pyrene	**56**		24	4.4	ug/Kg	☼	05/06/13 08:14	05/07/13 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*30 - 130*	*05/06/13 08:14*	*05/07/13 14:36*	*1*

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

TestAmerica Job ID: 680-89985-1
SDG: 68089985-1

Client Sample ID: HP0334A-CS

Lab Sample ID: 680-89985-7
Date Collected: 05/01/13 08:50
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	25	J	120	25	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Acenaphthylene	40	J	50	6.2	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Anthracene	120		10	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Benzo[a]anthracene	320		10	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Benzo[a]pyrene	260		13	6.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Benzo[b]fluoranthene	400		15	7.6	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Benzo[g,h,i]perylene	230		25	5.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Benzo[k]fluoranthene	150		10	4.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Chrysene	280		11	5.6	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Dibenz(a,h)anthracene	76		25	5.1	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Fluoranthene	550		25	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Fluorene	28		25	5.1	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Indeno[1,2,3-cd]pyrene	210		25	8.8	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
1-Methylnaphthalene	69		50	5.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
2-Methylnaphthalene	88		50	8.8	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Naphthalene	92		50	5.5	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Phenanthrene	450		10	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1
Pyrene	450		25	4.6	ug/Kg	☼	05/06/13 08:14	05/07/13 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*30 - 130*	*05/06/13 08:14*	*05/07/13 14:51*	*1*

Client Sample ID: CV1114A-CS

Lab Sample ID: 680-89985-8
Date Collected: 05/01/13 13:25
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	190		110	22	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
Acenaphthylene	110		45	5.6	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
Anthracene	810		9.4	4.7	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
Benzo[a]anthracene	3400		9.0	4.4	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
Benzo[a]pyrene	2500		12	5.8	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
Benzo[g,h,i]perylene	1600		22	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
Benzo[k]fluoranthene	1600		9.0	4.0	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
Chrysene	2900		10	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
Dibenz(a,h)anthracene	690		22	4.6	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
Fluorene	130		22	4.6	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
Indeno[1,2,3 cd]pyrene	1600		22	8.0	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
1-Methylnaphthalene	130		45	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
2-Methylnaphthalene	200		45	8.0	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
Naphthalene	170		45	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1
Phenanthrene	3500		9.0	4.4	ug/Kg	☼	05/06/13 08:14	05/07/13 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*05/06/13 08:14*	*05/07/13 15:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	3100		55	27	ug/Kg	☼	05/06/13 08:14	05/09/13 12:41	4

Client Sample ID: CV1114A-CS

Lab Sample ID: 680-89985-8
Date Collected: 05/01/13 13:25
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	4500		90	18	ug/Kg	☼	05/06/13 08:14	05/09/13 12:41	4
Pyrene	3700		90	17	ug/Kg	☼	05/06/13 08:14	05/09/13 12:41	4

Client Sample ID: CV1114A-CSD

Lab Sample ID: 680-89985-9
Date Collected: 05/01/13 13:25
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 82.2

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	☼	05/06/13 08:14	05/07/13 15:22	1
Acenaphthylene	29	J	48	6.1	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
Anthracene	35		10	5.1	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
Benzo[a]anthracene	150		9.7	4.7	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
Benzo[a]pyrene	130		13	6.3	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
Benzo[b]fluoranthene	180		15	7.4	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
Benzo[g,h,i]perylene	110		24	5.3	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
Benzo[k]fluoranthene	100		9.7	4.4	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
Chrysene	160		11	5 4	ug/Kg	☼	05/06/13 08 14	05/07/13 15 22	1
Dibenz(a,h)anthracene	31		24	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
Fluoranthene	230		24	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
Fluorene	6.8	J	24	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
Indeno[1,2,3-cd]pyrene	100		24	8.6	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
1-Methylnaphthalene	56		48	5.3	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
2-Methylnaphthalene	78		48	8.6	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
Naphthalene	58		48	5.3	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
Phenanthrene	150		9.7	4.7	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1
Pyrene	180		24	4.5	ug/Kg	☼	05/06/13 08:14	05/07/13 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*30 - 130*	*05/06/13 08:14*	*05/07/13 15:22*	*1*

Client Sample ID: CV1114B-CS

Lab Sample ID: 680-89985-10
Date Collected: 05/01/13 13:35
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 81.6

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	☼	05/06/13 08:14	05/07/13 15:37	1
Acenaphthylene	42	J	49	6.2	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Anthracene	69		10	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Benzo[a]anthracene	200		9.9	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Benzo[a]pyrene	180		13	6.4	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Benzo[b]fluoranthene	250		15	7.5	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Benzo[g,h,i]perylene	120		25	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Benzo[k]fluoranthene	130		9.9	4.4	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Chrysene	220		11	5.6	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Dibenz(a,h)anthracene	43		25	5.1	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Fluoranthene	370		25	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Fluorene	13	J	25	5.1	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Indeno[1,2,3-cd]pyrene	120		25	8.8	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1

Client Sample ID: CV1114B-CS

Lab Sample ID: 680-89985-10
Date Collected: 05/01/13 13:35
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	57		49	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
2-Methylnaphthalene	71		49	8.8	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Naphthalene	50		49	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Phenanthrene	230		9.9	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1
Pyrene	260		25	4.6	ug/Kg	☼	05/06/13 08:14	05/07/13 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*05/06/13 08:14*	*05/07/13 15:37*	*1*

Client Sample ID: CV1166A-CS

Lab Sample ID: 680-89985-11
Date Collected: 05/01/13 12:45
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Acenaphthylene	15	J	51	6.4	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Anthracene	27		11	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Benzo[a]anthracene	97		10	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Benzo[a]pyrene	68		13	6.7	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Benzo[b]fluoranthene	110		16	7.9	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Benzo[g,h,i]perylene	49		26	5.7	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Benzo[k]fluoranthene	52		10	4.6	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Chrysene	98		12	5.8	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Dibenz(a,h)anthracene	13	J	26	5.3	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Fluoranthene	130		26	5.1	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Fluorene	14	J	26	5.3	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Indeno[1,2,3-cd]pyrene	44		26	9.1	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
1-Methylnaphthalene	41	J	51	5.7	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
2-Methylnaphthalene	57		51	9.1	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Naphthalene	54		51	5.7	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Phenanthrene	100		10	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1
Pyrene	91		26	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*30 - 130*	*05/06/13 08:14*	*05/07/13 15:52*	*1*

Client Sample ID: CV1166B-CS

Lab Sample ID: 680-89985-12
Date Collected: 05/01/13 12:50
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	91	J	130	26	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Acenaphthylene	43	J	51	6.4	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Anthracene	190		11	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Benzo[a]anthracene	590		10	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Benzo[a]pyrene	460		13	6.6	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Benzo[b]fluoranthene	710		16	7.8	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Benzo[g,h,i]perylene	240		26	5.6	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1

Client Sample ID: CV1166B-CS

Lab Sample ID: 680-89985-12

Date Collected: 05/01/13 12:50
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	220		10	4.6	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Chrysene	470		11	5.7	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Dibenz(a,h)anthracene	85		26	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Fluoranthene	970		26	5.1	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Fluorene	68		26	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Indeno[1,2,3-cd]pyrene	270		26	9.1	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
1-Methylnaphthalene	110		51	5.6	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
2-Methylnaphthalene	130		51	9.1	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Naphthalene	110		51	5.6	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Phenanthrene	700		10	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1
Pyrene	640		26	4.7	ug/Kg	☼	05/06/13 08:14	05/07/13 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*30 - 130*	*05/06/13 08:14*	*05/07/13 16:07*	*1*

Client Sample ID: CV1166B-CSD

Lab Sample ID: 680-89985-13

Date Collected: 05/01/13 12:50
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 80.0

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	25	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Acenaphthylene	32	J	49	6.1	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Anthracene	54		10	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Benzo[a]anthracene	180		9.8	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Benzo[a]pyrene	150		13	6.4	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Benzo[b]fluoranthene	250		15	7.5	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Benzo[g,h,i]perylene	95		25	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Benzo[k]fluoranthene	95		9.8	4.4	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Chrysene	200		11	5.5	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Dibenz(a,h)anthracene	33		25	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Fluoranthene	250		25	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Fluorene	12	J	25	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Indeno[1,2,3-cd]pyrene	82		25	8.7	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
1-Methylnaphthalene	90		49	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
2-Methylnaphthalene	120		49	8.7	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Naphthalene	88		49	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Phenanthrene	190		9.8	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1
Pyrene	190		25	4.5	ug/Kg	☼	05/06/13 08:14	05/07/13 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*05/06/13 08:14*	*05/07/13 16:22*	*1*

Client Sample ID: CV1177A-CS

Lab Sample ID: 680-89985-14

Date Collected: 05/01/13 14:00
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1

Client Sample ID: CV1177A-CS

Lab Sample ID: 680-89985-14

Date Collected: 05/01/13 14:00
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	60		48	6.0	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Anthracene	56		10	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Benzo[a]anthracene	250		9.6	4.7	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Benzo[a]pyrene	210		12	6.2	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Benzo[b]fluoranthene	310		15	7.3	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Benzo[g,h,i]perylene	120		24	5.3	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Benzo[k]fluoranthene	130		9.6	4.3	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Chrysene	280		11	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Dibenz(a,h)anthracene	34		24	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Fluoranthene	410		24	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Fluorene	18	J	24	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Indeno[1,2,3-cd]pyrene	110		24	8.5	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
1-Methylnaphthalene	75		48	5.3	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
2-Methylnaphthalene	100		48	8.5	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Naphthalene	70		48	5.3	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Phenanthrene	210		9.6	4.7	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1
Pyrene	310		24	4.4	ug/Kg	☼	05/06/13 08:14	05/07/13 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*05/06/13 08:14*	*05/07/13 16:37*	*1*

Client Sample ID: CV1177B-CS

Lab Sample ID: 680-89985-15

Date Collected: 05/01/13 14:10
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 81.9

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	☼	05/06/13 08:14	05/07/13 16:52	1
Acenaphthylene	45	J	47	5.9	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Anthracene	130		10	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Benzo[a]anthracene	320		9.5	4.6	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Benzo[a]pyrene	250		12	6.2	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Benzo[b]fluoranthene	380		14	7.2	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Benzo[g,h,i]perylene	140		24	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Benzo[k]fluoranthene	170		9.5	4.3	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Chrysene	310		11	5.3	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Dibenz(a,h)anthracene	51		24	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Fluoranthene	510		24	4.7	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Fluorene	25		24	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Indeno[1,2,3-cd]pyrene	140		24	8.4	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
1-Methylnaphthalene	310		47	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
2-Methylnaphthalene	570		47	8.4	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Naphthalene	270		47	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Phenanthrene	380		9.5	4.6	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1
Pyrene	350		24	4.4	ug/Kg	☼	05/06/13 08:14	05/07/13 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*05/06/13 08:14*	*05/07/13 16:52*	*1*

Client Sample ID: CV1006A-CS

Lab Sample ID: 680-89985-16

Date Collected: 05/02/13 10:00
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 79.9

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	☼	05/06/13 08:14	05/07/13 17:07	1
Acenaphthylene	**180**		49	6.1	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Anthracene	**190**		10	5.1	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Benzo[a]anthracene	**240**		9.7	4.7	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Benzo[a]pyrene	**190**		13	6.3	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Benzo[b]fluoranthene	**310**		15	7.4	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Benzo[g,h,i]perylene	**190**		24	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Benzo[k]fluoranthene	**120**		9.7	4.4	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Chrysene	**250**		11	5.5	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Dibenz(a,h)anthracene	**50**		24	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Fluoranthene	**400**		24	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Fluorene	**24**		24	5.0	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Indeno[1,2,3-cd]pyrene	**140**		24	8.6	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
1-Methylnaphthalene	**82**		49	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
2-Methylnaphthalene	**93**		49	8.6	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Naphthalene	**64**		49	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Phenanthrene	**270**		9.7	4.7	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1
Pyrene	**290**		24	4.5	ug/Kg	☼	05/06/13 08:14	05/07/13 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*49*		*30 - 130*	*05/06/13 08:14*	*05/07/13 17:07*	*1*

Client Sample ID: CV1006B-CS

Lab Sample ID: 680-89985-17

Date Collected: 05/02/13 10:10
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 79.1

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	☼	05/06/13 08:14	05/07/13 17:22	1
Acenaphthylene	**55**		49	6.2	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Anthracene	**85**		10	5.2	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Benzo[a]anthracene	**180**		9.9	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Benzo[a]pyrene	**140**		13	6.4	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Benzo[b]fluoranthene	**250**		15	7.5	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Benzo[g,h,i]perylene	**75**		25	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Benzo[k]fluoranthene	**88**		9.9	4.4	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Chrysene	**170**		11	5.6	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Dibenz(a,h)anthracene	**26**		25	5.1	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Fluoranthene	**240**		25	4.9	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Fluorene	**16**	**J**	25	5.1	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Indeno[1,2,3-cd]pyrene	**83**		25	8.8	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
1-Methylnaphthalene	**64**		49	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
2-Methylnaphthalene	**86**		49	8.8	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Naphthalene	**72**		49	5.4	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Phenanthrene	**180**		9.9	4.8	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1
Pyrene	**190**		25	4.6	ug/Kg	☼	05/06/13 08:14	05/07/13 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*30 - 130*	*05/06/13 08:14*	*05/07/13 17:22*	*1*

Client Sample ID: CV1165A-CS

Lab Sample ID: 680-89985-18

Date Collected: 05/02/13 09:20
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 82.4

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	24	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Acenaphthylene	**62**		49	6.1	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Anthracene	**110**		10	5.1	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Benzo[a]anthracene	**91**		9.7	4.7	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Benzo[a]pyrene	**86**		13	6.3	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Benzo[b]fluoranthene	**180**		15	7.4	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Benzo[g,h,i]perylene	**58**		24	5.3	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Benzo[k]fluoranthene	**85**		9.7	4.4	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Chrysene	**200**		11	5.5	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Dibenz(a,h)anthracene	**18**	**J**	24	5.0	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Fluoranthene	**340**		24	4.9	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Fluorene	**17**	**J**	24	5.0	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Indeno[1,2,3-cd]pyrene	**61**		24	8.6	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
1-Methylnaphthalene	**72**		49	5.3	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
2-Methylnaphthalene	**71**		49	8.6	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Naphthalene	**49**		49	5.3	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Phenanthrene	**490**		9.7	4.7	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1
Pyrene	**300**		24	4.5	ug/Kg	☼	05/08/13 11:30	05/09/13 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*30 - 130*	*05/08/13 11:30*	*05/09/13 14:57*	*1*

Client Sample ID: CV1165B-CS

Lab Sample ID: 680-89985-19

Date Collected: 05/02/13 09:30
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Acenaphthylene	52	U	52	6.5	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Anthracene	**12**		11	5.4	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Benzo[a]anthracene	10	U	10	5.0	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Benzo[a]pyrene	**33**		13	6.7	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Benzo[b]fluoranthene	**65**		16	7.9	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Benzo[g,h,i]perylene	**27**		26	5.7	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Benzo[k]fluoranthene	**22**		10	4.6	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Chrysene	**62**		12	5.8	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Dibenz(a,h)an hracene	26	U	26	5.3	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Fluoranthene	**58**		26	5.2	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Fluorene	**8.5**	**J**	26	5.3	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Indeno[1,2,3-cd]pyrene	**24**	**J**	26	9.2	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
1-Methylnaphthalene	**34**	**J**	52	5.7	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
2-Methylnaphthalene	**38**	**J**	52	9.2	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Naphthalene	**39**	**J**	52	5.7	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Phenanthrene	**66**		10	5.0	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1
Pyrene	**50**		26	4.8	ug/Kg	☼	05/08/13 11:30	05/09/13 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*47*		*30 - 130*	*05/08/13 11:30*	*05/09/13 15:12*	*1*

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

TestAmerica Job ID: 680-89985-1
SDG: 68089985-1

Client Sample ID: CV1165B-CSD
Date Collected: 05/02/13 09:30
Date Received: 05/03/13 11:15

Lab Sample ID: 680-89985-20
Matrix: Solid
Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Acenaphthylene	200	U	200	25	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Anthracene	**25**	**J**	42	21	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Benzo[a]anthracene	**120**		40	20	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Benzo[a]pyrene	**51**	**J**	52	26	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Benzo[b]fluoranthene	**100**		62	31	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Benzo[g,h,i]perylene	**69**	**J**	100	22	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Benzo[k]fluoranthene	**32**	**J**	40	18	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Chrysene	**94**		45	23	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Dibenz(a,h)anthracene	**22**	**J**	100	21	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Fluoranthene	**86**	**J**	100	20	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Fluorene	100	U	100	21	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Indeno[1,2,3-cd]pyrene	**51**	**J**	100	36	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
1-Methylnaphthalene	**52**	**J**	200	22	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
2-Methylnaphthalene	**72**	**J**	200	36	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Naphthalene	**66**	**J**	200	22	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Phenanthrene	**120**		40	20	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4
Pyrene	**88**	**J**	100	19	ug/Kg	☼	05/08/13 11:30	05/09/13 15:27	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*30 - 130*	*05/08/13 11:30*	*05/09/13 15:27*	*4*

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

Lab Sample ID: MB 660-137132/1-A
Matrix: Solid
Analysis Batch: 137156

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137132

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	99	U	99	20	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Acenaphthylene	40	U	40	5.0	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Anthracene	8.3	U	8.3	4.2	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Benzo[a]anthracene	7.9	U	7.9	3.9	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Benzo[k]fluoranthene	7.9	U	7.9	3.6	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Chrysene	8.9	U	8.9	4.5	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Dibenz(a,h)an hracene	20	U	20	4.1	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Fluoranthene	20	U	20	4.0	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Fluorene	20	U	20	4.1	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.0	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
2-Methylnaphthalene	40	U	40	7.0	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Naphthalene	40	U	40	4.4	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Phenanthrene	7.9	U	7.9	3.9	ug/Kg		05/06/13 08:14	05/06/13 15:08	1
Pyrene	20	U	20	3.7	ug/Kg		05/06/13 08:14	05/06/13 15:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*30 - 130*	*05/06/13 08:14*	*05/06/13 15:08*	*1*

Lab Sample ID: LCS 660-137132/2-A
Matrix: Solid
Analysis Batch: 137156

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137132

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	670	373		ug/Kg		56	39 - 130
Acenaphthylene	670	430		ug/Kg		64	38 - 130
Anthracene	670	428		ug/Kg		64	37 - 130
Benzo[a]anthracene	670	444		ug/Kg		66	40 - 130
Benzo[a]pyrene	670	356		ug/Kg		53	49 - 130
Benzo[b]fluoranthene	670	380		ug/Kg		57	37 - 130
Benzo[g,h,i]perylene	670	508		ug/Kg		76	32 - 130
Benzo[k]fluoranthene	670	357		ug/Kg		53	32 - 130
Chrysene	670	380		ug/Kg		57	41 - 130
Dibenz(a,h)an hracene	670	502		ug/Kg		75	27 - 130
Fluoranthene	670	432		ug/Kg		64	40 - 130
Fluorene	670	445		ug/Kg		66	40 - 130
Indeno[1,2,3-cd]pyrene	670	467		ug/Kg		70	30 - 130
1-Methylnaphthalene	670	439		ug/Kg		66	31 - 130
2-Methylnaphthalene	670	435		ug/Kg		65	33 - 130
Naphthalene	670	396		ug/Kg		59	36 - 130
Phenanthrene	670	409		ug/Kg		61	42 - 130
Pyrene	670	447		ug/Kg		67	44 - 130

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

Lab Sample ID: LCS 660-137132/2-A
Matrix: Solid
Analysis Batch: 137156

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	62		30 - 130

Lab Sample ID: 680-89985-3 MS
Matrix: Solid
Analysis Batch: 137156

Client Sample ID: CV1067B-CS
Prep Type: Total/NA
Prep Batch: 137132

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	130	U	896	477		ug/Kg	☼	53	39 - 130
Acenaphthylene	50	J	896	544		ug/Kg	☼	55	38 - 130
Anthracene	97		896	595		ug/Kg	☼	56	37 - 130
Benzo[a]anthracene	220	F	896	795		ug/Kg	☼	64	40 - 130
Benzo[a]pyrene	230	F	896	661		ug/Kg	☼	49	49 - 130
Benzo[b]fluoranthene	450	F	896	963		ug/Kg	☼	57	37 - 130
Benzo[g,h,i]perylene	200		896	743		ug/Kg	☼	60	32 - 130
Benzo[k]fluoranthene	170	F	896	626		ug/Kg	☼	51	32 - 130
Chrysene	410	F	896	913		ug/Kg	☼	56	41 - 130
Dibenz(a,h)an hracene	54		896	628		ug/Kg	☼	64	27 - 130
Fluoranthene	670	F	896	1250		ug/Kg	☼	64	40 - 130
Fluorene	19	J	896	531		ug/Kg	☼	57	40 - 130
Indeno[1,2,3-cd]pyrene	180		896	751		ug/Kg	☼	63	30 - 130
1-Methylnaphthalene	140		896	722		ug/Kg	☼	65	31 - 130
2-Methylnaphthalene	140		896	739		ug/Kg	☼	66	33 - 130
Naphthalene	100	F	896	879		ug/Kg	☼	87	36 - 130
Phenanthrene	580		896	1460		ug/Kg	☼	98	42 - 130
Pyrene	420	F	896	1170		ug/Kg	☼	84	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	49		30 - 130

Lab Sample ID: 680-89985-3 MSD
Matrix: Solid
Analysis Batch: 137156

Client Sample ID: CV1067B-CS
Prep Type: Total/NA
Prep Batch: 137132

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	130	U	896	364		ug/Kg	☼	41	39 - 130	27	40
Acenaphthylene	50	J	896	520		ug/Kg	☼	52	38 - 130	5	40
Anthracene	97		896	680		ug/Kg	☼	65	37 - 130	13	40
Benzo[a]anthracene	220	F	896	1910	F	ug/Kg	☼	188	40 - 130	82	40
Benzo[a]pyrene	230	F	896	1180	F	ug/Kg	☼	107	49 - 130	57	40
Benzo[b]fluoranthene	450	F	896	2560	F	ug/Kg	☼	235	37 - 130	91	40
Benzo[g,h,i]perylene	200		896	940		ug/Kg	☼	82	32 - 130	23	40
Benzo[k]fluoranthene	170	F	896	1390	F	ug/Kg	☼	137	32 - 130	76	40
Chrysene	410	F	896	2560	F	ug/Kg	☼	239	41 - 130	95	40
Dibenz(a,h)an hracene	54		896	664		ug/Kg	☼	68	27 - 130	6	40
Fluoranthene	670	F	896	4900	E F	ug/Kg	☼	471	40 - 130	119	40
Fluorene	19	J	896	415		ug/Kg	☼	44	40 - 130	25	40
Indeno[1,2,3-cd]pyrene	180		896	1030		ug/Kg	☼	94	30 - 130	31	40
1-Methylnaphthalene	140		896	545		ug/Kg	☼	45	31 - 130	28	40

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

Lab Sample ID: 680-89985-3 MSD
Matrix: Solid
Analysis Batch: 137156

Client Sample ID: CV1067B-CS
Prep Type: Total/NA
Prep Batch: 137132

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	140		896	584		ug/Kg	☼	49	33 - 130	23	40
Naphthalene	100	F	896	476	F	ug/Kg	☼	42	36 - 130	60	40
Phenanthrene	580		896	1010		ug/Kg	☼	48	42 - 130	36	40
Pyrene	420	F	896	3930	F	ug/Kg	☼	392	44 - 130	108	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*37*		*30 - 130*

Lab Sample ID: MB 660-137234/1-A
Matrix: Solid
Analysis Batch: 137292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137234

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		05/08/13 11:30	05/08/13 17:58	1
Acenaphthylene	40	U	40	5.0	ug/Kg		05/08/13 11:30	05/08/13 17:58	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		05/08/13 11:30	05/08/13 17:58	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		05/08/13 11:30	05/08/13 17:58	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		05/08/13 11:30	05/08/13 17:58	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		05/08/13 11:30	05/08/13 17:58	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		05/08/13 11:30	05/08/13 17:58	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		05/08/13 11:30	05/08/13 17:58	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		05/08/13 11:30	05/08/13 17:58	1
Dibenz(a,h)an hracene	20	U	20	4.1	ug/Kg		05/08/13 11:30	05/08/13 17:58	1
Fluoranthene	20	U	20	4.0	ug/Kg		05/08/13 11:30	05/08/13 17:58	1
Fluorene	20	U	20	4.1	ug/Kg		05/08/13 11:30	05/08/13 17:58	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		05/08/13 11:30	05/08/13 17:58	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		05/08/13 11:30	05/08/13 17:58	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		05/08/13 11:30	05/08/13 17:58	1
Naphthalene	40	U	40	4.4	ug/Kg		05/08/13 11:30	05/08/13 17:58	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		05/08/13 11:30	05/08/13 17:58	1
Pyrene	20	U	20	3.7	ug/Kg		05/08/13 11:30	05/08/13 17:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*30 - 130*	*05/08/13 11:30*	*05/08/13 17:58*	*1*

Lab Sample ID: LCS 660-137234/2-A
Matrix: Solid
Analysis Batch: 137292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137234

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	668	523		ug/Kg		78	39 - 130
Acenaphthylene	668	560		ug/Kg		84	38 - 130
Anthracene	668	583		ug/Kg		87	37 - 130
Benzo[a]anthracene	668	573		ug/Kg		86	40 - 130
Benzo[a]pyrene	668	519		ug/Kg		78	49 - 130
Benzo[b]fluoranthene	668	523		ug/Kg		78	37 - 130
Benzo[g,h,i]perylene	668	533		ug/Kg		80	32 - 130
Benzo[k]fluoranthene	668	577		ug/Kg		86	32 - 130

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

Lab Sample ID: LCS 660-137234/2-A
Matrix: Solid
Analysis Batch: 137292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137234

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chrysene			668	556		ug/Kg		83	41 - 130		
Dibenz(a,h)an hracene			668	560		ug/Kg		84	27 - 130		
Fluoranthene			668	565		ug/Kg		85	40 - 130		
Fluorene			668	560		ug/Kg		84	40 - 130		
Indeno[1,2,3-cd]pyrene			668	509		ug/Kg		76	30 - 130		
1-Methylnaphthalene			668	627		ug/Kg		94	31 - 130		
2-Methylnaphthalene			668	617		ug/Kg		92	33 - 130		
Naphthalene			668	537		ug/Kg		80	36 - 130		
Phenanthrene			668	556		ug/Kg		83	42 - 130		
Pyrene			668	571		ug/Kg		85	44 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*86*		*30 - 130*

GC/MS Semi VOA

Prep Batch: 137132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89985-1	CV0725A-CS	Total/NA	Solid	3546	
680-89985-2	CV1067A-CS	Total/NA	Solid	3546	
680-89985-3	CV1067B-CS	Total/NA	Solid	3546	
680-89985-3 MS	CV1067B-CS	Total/NA	Solid	3546	
680-89985-3 MSD	CV1067B-CS	Total/NA	Solid	3546	
680-89985-4	HP0333A-CS	Total/NA	Solid	3546	
680-89985-5	HP0333A-CSD	Total/NA	Solid	3546	
680-89985-6	HP0333B-CS	Total/NA	Solid	3546	
680-89985-7	HP0334A-CS	Total/NA	Solid	3546	
680-89985-8	CV1114A-CS	Total/NA	Solid	3546	
680-89985-8 - DL	CV1114A-CS	Total/NA	Solid	3546	
680-89985-9	CV1114A-CSD	Total/NA	Solid	3546	
680-89985-10	CV1114B-CS	Total/NA	Solid	3546	
680-89985-11	CV1166A-CS	Total/NA	Solid	3546	
680-89985-12	CV1166B-CS	Total/NA	Solid	3546	
680-89985-13	CV1166B-CSD	Total/NA	Solid	3546	
680-89985-14	CV1177A-CS	Total/NA	Solid	3546	
680-89985-15	CV1177B-CS	Total/NA	Solid	3546	
680-89985-16	CV1006A-CS	Total/NA	Solid	3546	
680-89985-17	CV1006B-CS	Total/NA	Solid	3546	
LCS 660-137132/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-137132/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 137156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89985-3 MS	CV1067B-CS	Total/NA	Solid	8270C LL	137132
680-89985-3 MSD	CV1067B-CS	Total/NA	Solid	8270C LL	137132
LCS 660-137132/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	137132
MB 660-137132/1-A	Method Blank	Total/NA	Solid	8270C LL	137132

Analysis Batch: 137194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89985-1	CV0725A-CS	Total/NA	Solid	8270C LL	137132
680-89985-2	CV1067A-CS	Total/NA	Solid	8270C LL	137132
680-89985-3	CV1067B-CS	Total/NA	Solid	8270C LL	137132
680-89985-4	HP0333A-CS	Total/NA	Solid	8270C LL	137132
680-89985-5	HP0333A-CSD	Total/NA	Solid	8270C LL	137132
680-89985-6	HP0333B-CS	Total/NA	Solid	8270C LL	137132
680-89985-7	HP0334A-CS	Total/NA	Solid	8270C LL	137132
680-89985-8	CV1114A-CS	Total/NA	Solid	8270C LL	137132
680-89985-9	CV1114A-CSD	Total/NA	Solid	8270C LL	137132
680-89985-10	CV1114B-CS	Total/NA	Solid	8270C LL	137132
680-89985-11	CV1166A-CS	Total/NA	Solid	8270C LL	137132
680-89985-12	CV1166B-CS	Total/NA	Solid	8270C LL	137132
680-89985-13	CV1166B-CSD	Total/NA	Solid	8270C LL	137132
680-89985-14	CV1177A-CS	Total/NA	Solid	8270C LL	137132
680-89985-15	CV1177B-CS	Total/NA	Solid	8270C LL	137132
680-89985-16	CV1006A-CS	Total/NA	Solid	8270C LL	137132
680-89985-17	CV1006B-CS	Total/NA	Solid	8270C LL	137132

GC/MS Semi VOA (Continued)

Prep Batch: 137234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89985-18	CV1165A-CS	Total/NA	Solid	3546	
680-89985-19	CV1165B-CS	Total/NA	Solid	3546	
680-89985-20	CV1165B-CSD	Total/NA	Solid	3546	
LCS 660-137234/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-137234/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 137283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89985-8 - DL	CV1114A-CS	Total/NA	Solid	8270C LL	137132
680-89985-18	CV1165A-CS	Total/NA	Solid	8270C LL	137234
680-89985-19	CV1165B-CS	Total/NA	Solid	8270C LL	137234
680-89985-20	CV1165B-CSD	Total/NA	Solid	8270C LL	137234

Analysis Batch: 137292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 660-137234/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	137234
MB 660-137234/1-A	Method Blank	Total/NA	Solid	8270C LL	137234

General Chemistry

Analysis Batch: 137139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89985-1	CV0725A-CS	Total/NA	Solid	Moisture	
680-89985-2	CV1067A-CS	Total/NA	Solid	Moisture	
680-89985-3	CV1067B-CS	Total/NA	Solid	Moisture	
680-89985-3 MS	CV1067B-CS	Total/NA	Solid	Moisture	
680-89985-3 MSD	CV1067B-CS	Total/NA	Solid	Moisture	
680-89985-4	HP0333A-CS	Total/NA	Solid	Moisture	
680-89985-5	HP0333A-CSD	Total/NA	Solid	Moisture	
680-89985-6	HP0333B-CS	Total/NA	Solid	Moisture	
680-89985-7	HP0334A-CS	Total/NA	Solid	Moisture	
680-89985-8	CV1114A-CS	Total/NA	Solid	Moisture	
680-89985-9	CV1114A-CSD	Total/NA	Solid	Moisture	
680-89985-10	CV1114B-CS	Total/NA	Solid	Moisture	
680-89985-11	CV1166A-CS	Total/NA	Solid	Moisture	
680-89985-12	CV1166B-CS	Total/NA	Solid	Moisture	
680-89985-13	CV1166B-CSD	Total/NA	Solid	Moisture	
680-89985-14	CV1177A-CS	Total/NA	Solid	Moisture	
680-89985-15	CV1177B-CS	Total/NA	Solid	Moisture	
680-89985-16	CV1006A-CS	Total/NA	Solid	Moisture	
680-89985-17	CV1006B-CS	Total/NA	Solid	Moisture	
680-89985-18	CV1165A-CS	Total/NA	Solid	Moisture	
680-89985-19	CV1165B-CS	Total/NA	Solid	Moisture	
680-89985-20	CV1165B-CSD	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-89985-1
SDG: 68089985-1

Client Sample ID: CV0725A-CS

Lab Sample ID: 680-89985-1
Date Collected: 05/01/13 10:00
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137132	05/06/13 08:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	137194	05/07/13 13:21	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137139	05/06/13 10:22	AG	TAL TAM

Client Sample ID: CV1067A-CS

Lab Sample ID: 680-89985-2
Date Collected: 05/01/13 10:40
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137132	05/06/13 08:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	137194	05/07/13 13:36	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137139	05/06/13 10:22	AG	TAL TAM

Client Sample ID: CV1067B-CS

Lab Sample ID: 680-89985-3
Date Collected: 05/01/13 10:50
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 73.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137132	05/06/13 08:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	137194	05/07/13 14:21	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137139	05/06/13 10:22	AG	TAL TAM

Client Sample ID: HP0333A-CS

Lab Sample ID: 680-89985-4
Date Collected: 05/01/13 09:20
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 74.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137132	05/06/13 08:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	137194	05/07/13 13:51	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137139	05/06/13 10:22	AG	TAL TAM

Client Sample ID: HP0333A-CSD

Lab Sample ID: 680-89985-5
Date Collected: 05/01/13 09:20
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 73.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137132	05/06/13 08:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	137194	05/07/13 14:06	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137139	05/06/13 10:22	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-89985-1
SDG: 68089985-1

Client Sample ID: HP0333B-CS

Lab Sample ID: 680-89985-6
Date Collected: 05/01/13 09:30
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137132	05/06/13 08:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	137194	05/07/13 14:36	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137139	05/06/13 10:22	AG	TAL TAM

Client Sample ID: HP0334A-CS

Lab Sample ID: 680-89985-7
Date Collected: 05/01/13 08:50
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137132	05/06/13 08:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	137194	05/07/13 14:51	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137139	05/06/13 10:22	AG	TAL TAM

Client Sample ID: CV1114A-CS

Lab Sample ID: 680-89985-8
Date Collected: 05/01/13 13:25
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137132	05/06/13 08:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	137194	05/07/13 15:06	SCC	TAL TAM
Total/NA	Prep	3546	DL		137132	05/06/13 08:14	SC	TAL TAM
Total/NA	Analysis	8270C LL	DL	4	137283	05/09/13 12:41	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137139	05/06/13 10:22	AG	TAL TAM

Client Sample ID: CV1114A-CSD

Lab Sample ID: 680-89985-9
Date Collected: 05/01/13 13:25
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137132	05/06/13 08:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	137194	05/07/13 15:22	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137139	05/06/13 10:22	AG	TAL TAM

Client Sample ID: CV1114B-CS

Lab Sample ID: 680-89985-10
Date Collected: 05/01/13 13:35
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137132	05/06/13 08:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	137194	05/07/13 15:37	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137139	05/06/13 10:22	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-89985-1
SDG: 68089985-1

Client Sample ID: CV1166A-CS

Lab Sample ID: 680-89985-11
Date Collected: 05/01/13 12:45
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137132	05/06/13 08:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	137194	05/07/13 15:52	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137139	05/06/13 10:22	AG	TAL TAM

Client Sample ID: CV1166B-CS

Lab Sample ID: 680-89985-12
Date Collected: 05/01/13 12:50
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 78.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137132	05/06/13 08:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	137194	05/07/13 16:07	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137139	05/06/13 10:22	AG	TAL TAM

Client Sample ID: CV1166B-CSD

Lab Sample ID: 680-89985-13
Date Collected: 05/01/13 12:50
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137132	05/06/13 08:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	137194	05/07/13 16:22	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137139	05/06/13 10:22	AG	TAL TAM

Client Sample ID: CV1177A-CS

Lab Sample ID: 680-89985-14
Date Collected: 05/01/13 14:00
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137132	05/06/13 08:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	137194	05/07/13 16:37	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137139	05/06/13 10:22	AG	TAL TAM

Client Sample ID: CV1177B-CS

Lab Sample ID: 680-89985-15
Date Collected: 05/01/13 14:10
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137132	05/06/13 08:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	137194	05/07/13 16:52	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137139	05/06/13 10:22	AG	TAL TAM

Client Sample ID: CV1006A-CS

Lab Sample ID: 680-89985-16
Date Collected: 05/02/13 10:00
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137132	05/06/13 08:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	137194	05/07/13 17:07	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137139	05/06/13 10:22	AG	TAL TAM

Client Sample ID: CV1006B-CS

Lab Sample ID: 680-89985-17
Date Collected: 05/02/13 10:10
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137132	05/06/13 08:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	137194	05/07/13 17:22	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137139	05/06/13 10:22	AG	TAL TAM

Client Sample ID: CV1165A-CS

Lab Sample ID: 680-89985-18
Date Collected: 05/02/13 09:20
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137234	05/08/13 11:30	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137283	05/09/13 14:57	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137139	05/06/13 10:22	AG	TAL TAM

Client Sample ID: CV1165B-CS

Lab Sample ID: 680-89985-19
Date Collected: 05/02/13 09:30
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137234	05/08/13 11:30	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137283	05/09/13 15:12	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137139	05/06/13 10:22	AG	TAL TAM

Client Sample ID: CV1165B-CSD

Lab Sample ID: 680-89985-20
Date Collected: 05/02/13 09:30
Matrix: Solid
Date Received: 05/03/13 11:15
Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137234	05/08/13 11:30	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	137283	05/09/13 15:27	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137139	05/06/13 10:22	AG	TAL TAM

Laboratory References:

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

Serial Number 64600

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Alternate Laboratory Name/Location
Test Am Tampa

680-89985-01 Chain of Custody

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	200514813 56	AL

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

(b) (6)
(b) (6)
(b) (6)

CLIENT FAX

CLIENT ADDRESS

COMPANY CONTRAC

PAGE 1 OF 3

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: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: LL PAH	REQUIRED ANALYSIS: PCB 8 Metals	PRESERVATIVE	REMARKS
		NUMBER OF CONTAINERS SUBMITTED									
5-1-13	1000	CV0725A-CS	C		X			X			
	1040	CV1067A-CS	C		X			X			
	1050	CV1067B-CS	C		X			X	X		
	0920	~~CV~~ HP0333A-CS	C		X			X			
	0920	HP0333A-CSD	C		X			X			
	0930	HP0333B-CS	C		X			X			
	0850	HP0334A-CS	C		X			X			
	1325	CV1114A-CS	C		X			X			
	1325	CV1114A-CSD	C		X			X			
	1335	CV1114B-CS	C		X			X	X		
	1245	CV1166A-CS	C		X			X			
	1250	CV1166B-CS	C		X			X			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	5-2-13	1600						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	5/3/13	115						

LABORATORY USE ONLY

680-89985

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
						5.2°C CU-07

TAL3240-680 (1003)

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5/14/2013

Serial Number 64601

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Alternate Laboratory Name/Location

680-89985-02 Chain of Custody

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	200518-1356	AL

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

CLIENT FAX

(b) (6)

CLIENT NAME (b) (6) CLIENT E-MAIL

CLIENT ADDRESS (b) (6)

COMPANY CONTR.

MATRIX TYPE

REQUIRED ANALYSIS

PAGE 2 OF 3

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	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	22 PAH	RCRA 8 Metals	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
5-1-13	1250	CV1166B-CSD	C		X			X				
	1400	CV1177A-CS	C		X			X				
	1410	CV1177B-CS	C		X			X				
5-2-13	1000	CV1006A-CS	C		X			X	X			
	1010	CV1006B-CS	C		X			X				
	0920	CV1165A-CS	C		X			X				
	0930	CV1165B-CS	C		X			X				
	0930	CV1165B-CSD	C		X			X				
	1215	CV1237A-CS	C		X			X				
	1225	CV1237B-CS	C		X			X				
	1250	CV1302A-CS	C		X			X				
	1255	CV1302B-CS	C		X			X				

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	5-2-13	1600						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	5/3/13	1115						

LABORATORY USE ONLY 680-89985

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS

TAL-0240-690 (1008)

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5/14/2013

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89985-1
SDG Number: 68089985-1

Login Number: 89985
List Number: 1
Creator: Snead, Joshua

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	

Certification Summary

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

TestAmerica Job ID: 680-89985-1
SDG: 68089985-1

Laboratory: TestAmerica Savannah

All certifica ions held by this laboratory are listed. Not all cer ifications 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
Ilinois	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 certifica ions held by this laboratory are listed. Not all cer ifications 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: 680-89985-1
SDG: 68089985-1

Laboratory: TestAmerica Tampa (Continued)

All certifica ions held by this laboratory are listed. Not all cer ifications 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