ANALYTICAL REPORT

Job Number: 680-87655-3

SDG Number: 68087655-3

Job Description: 35th Avenue Superfund Site

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

Attention: Ms. Limari F Krebs

Approved for release.
Bernard Kirkland
Project Manager I
3/5/2013 11:09 AM

Designee for
Lisa Harvey
Project Manager II
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03/05/2013

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-87655-3

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 02/21/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.4º C and 2.8º C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0161KKKK-CS (680-87655-41), FM0161LLLL-CS (680-87655-42), FM0161LLLL-CSD (680-87655-43), FM0161MMMM-CS (680-87655-44), FM0161NNNN-CS (680-87655-45), FM0161OOOO-CS (680-87655-46), FM0161PPPP-CS (680-87655-47), FM0161PPPP-CSD (680-87655-48), FM0161QQQQ-CS (680-87655-49), FM0161RRRR-CS (680-87655-50), FM0161SSSS-CS (680-87655-51), FM0161TTTT-CS (680-87655-52), FM0161AY-GS (680-87655-53), FM0161AZ-GS (680-87655-54), FM0161ABB-GS (680-87655-55), FM0161ACC-GS (680-87655-56), FM0161ADD-GS (680-87655-57), FM0161AEE-GS (680-87655-58), CV0038A-CS-SP (680-87655-59) and CV0038B-CS-SP (680-87655-60) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 02/25/2013 and analyzed on 02/27/2013 and 02/28/2013.

Samples CV0038A-CS-SP (680-87655-59)[4X] and CV0038B-CS-SP (680-87655-60)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the Semivolatile Organic Compounds by GCMS - Low Level analyses.

All quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87655-3
Sdg Number: 68087655-3

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-87655-41	FM0161KKKK-CS	Solid	02/19/2013 1258	02/21/2013 0920
680-87655-41MS	FM0161KKKK-CS	Solid	02/19/2013 1258	02/21/2013 0920
680-87655-41MSD	FM0161KKKK-CS	Solid	02/19/2013 1258	02/21/2013 0920
680-87655-42	FM0161LLLL-CS	Solid	02/19/2013 1306	02/21/2013 0920
680-87655-43	FM0161LLLL-CSD	Solid	02/19/2013 1308	02/21/2013 0920
680-87655-44	FM0161MMMM-CS	Solid	02/19/2013 1322	02/21/2013 0920
680-87655-45	FM0161NNNN-CS	Solid	02/19/2013 1338	02/21/2013 0920
680-87655-46	FM0161OOOO-CS	Solid	02/19/2013 1345	02/21/2013 0920
680-87655-47	FM0161PPPP-CS	Solid	02/19/2013 1346	02/21/2013 0920
680-87655-48	FM0161PPPP-CSD	Solid	02/19/2013 1348	02/21/2013 0920
680-87655-49	FM0161QQQQ-CS	Solid	02/19/2013 1350	02/21/2013 0920
680-87655-50	FM0161RRRR-CS	Solid	02/19/2013 1357	02/21/2013 0920
680-87655-51	FM0161SSSS-CS	Solid	02/19/2013 1401	02/21/2013 0920
680-87655-52	FM0161TTTT-CS	Solid	02/19/2013 1407	02/21/2013 0920
680-87655-53	FM0161AY-GS	Solid	02/19/2013 1311	02/21/2013 0920
680-87655-54	FM0161AZ-GS	Solid	02/19/2013 1330	02/21/2013 0920
680-87655-55	FM0161ABB-GS	Solid	02/19/2013 1332	02/21/2013 0920
680-87655-56	FM0161ACC-GS	Solid	02/19/2013 1349	02/21/2013 0920
680-87655-57	FM0161ADD-GS	Solid	02/19/2013 1358	02/21/2013 0920
680-87655-58	FM0161AEE-GS	Solid	02/19/2013 1405	02/21/2013 0920
680-87655-59	CV0038A-CS-SP	Solid	02/19/2013 1333	02/21/2013 0920
680-87655-60	CV0038B-CS-SP	Solid	02/19/2013 1351	02/21/2013 0920

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87655-3
Sdg Number: 68087655-3

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: 680-87655-3
Sdg Number: 68087655-3

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: 680-87655-3
Sdg Number: 68087655-3

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87655-3
Sdg Number: 68087655-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-134818					
LCS 660-134818/2-A	Lab Control Sample	T	Solid	3546	
MB 660-134818/1-A	Method Blank	T	Solid	3546	
680-87655-41	FM0161KKKK-CS	T	Solid	3546	
680-87655-41MS	Matrix Spike	T	Solid	3546	
680-87655-41MSD	Matrix Spike Duplicate	T	Solid	3546	
680-87655-42	FM0161LLLL-CS	T	Solid	3546	
680-87655-43	FM0161LLLL-CSD	T	Solid	3546	
680-87655-44	FM0161MMMM-CS	T	Solid	3546	
680-87655-45	FM0161NNNN-CS	T	Solid	3546	
680-87655-46	FM0161OOOO-CS	T	Solid	3546	
680-87655-47	FM0161PPPP-CS	T	Solid	3546	
680-87655-48	FM0161PPPP-CSD	T	Solid	3546	
680-87655-49	FM0161QQQQ-CS	T	Solid	3546	
680-87655-50	FM0161RRRR-CS	T	Solid	3546	
680-87655-51	FM0161SSSS-CS	T	Solid	3546	
680-87655-52	FM0161TTTT-CS	T	Solid	3546	
680-87655-53	FM0161AY-GS	T	Solid	3546	
680-87655-54	FM0161AZ-GS	T	Solid	3546	
680-87655-55	FM0161ABB-GS	T	Solid	3546	
680-87655-56	FM0161ACC-GS	T	Solid	3546	
Prep Batch: 660-134819					
LCS 660-134819/2-A	Lab Control Sample	T	Solid	3546	
MB 660-134819/1-A	Method Blank	T	Solid	3546	
680-87655-57	FM0161ADD-GS	T	Solid	3546	
680-87655-58	FM0161AEE-GS	T	Solid	3546	
680-87655-59	CV0038A-CS-SP	T	Solid	3546	
680-87655-60	CV0038B-CS-SP	T	Solid	3546	
680-87655-A-65-B MS	Matrix Spike	T	Solid	3546	
680-87655-A-65-C MSD	Matrix Spike Duplicate	T	Solid	3546	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87655-3
Sdg Number: 68087655-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-134903					
LCS 660-134818/2-A	Lab Control Sample	T	Solid	8270C LL	660-134818
MB 660-134818/1-A	Method Blank	T	Solid	8270C LL	660-134818
680-87655-41	FM0161KKKK-CS	T	Solid	8270C LL	660-134818
680-87655-41MS	Matrix Spike	T	Solid	8270C LL	660-134818
680-87655-41MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-134818
680-87655-42	FM0161LLLL-CS	T	Solid	8270C LL	660-134818
680-87655-43	FM0161LLLL-CSD	T	Solid	8270C LL	660-134818
680-87655-44	FM0161MMMM-CS	T	Solid	8270C LL	660-134818
680-87655-45	FM0161NNNN-CS	T	Solid	8270C LL	660-134818
680-87655-46	FM0161OOOO-CS	T	Solid	8270C LL	660-134818
680-87655-47	FM0161PPPP-CS	T	Solid	8270C LL	660-134818
680-87655-48	FM0161PPPP-CSD	T	Solid	8270C LL	660-134818
680-87655-49	FM0161QQQQ-CS	T	Solid	8270C LL	660-134818
680-87655-50	FM0161RRRR-CS	T	Solid	8270C LL	660-134818
680-87655-51	FM0161SSSS-CS	T	Solid	8270C LL	660-134818
680-87655-52	FM0161TTTT-CS	T	Solid	8270C LL	660-134818
Analysis Batch:660-134905					
680-87655-53	FM0161AY-GS	T	Solid	8270C LL	660-134818
680-87655-54	FM0161AZ-GS	T	Solid	8270C LL	660-134818
680-87655-55	FM0161ABB-GS	T	Solid	8270C LL	660-134818
680-87655-56	FM0161ACC-GS	T	Solid	8270C LL	660-134818
Analysis Batch:660-135011					
LCS 660-134819/2-A	Lab Control Sample	T	Solid	8270C LL	660-134819
MB 660-134819/1-A	Method Blank	T	Solid	8270C LL	660-134819
680-87655-57	FM0161ADD-GS	T	Solid	8270C LL	660-134819
680-87655-58	FM0161AEE-GS	T	Solid	8270C LL	660-134819
680-87655-59	CV0038A-CS-SP	T	Solid	8270C LL	660-134819
680-87655-60	CV0038B-CS-SP	T	Solid	8270C LL	660-134819
680-87655-A-65-B MS	Matrix Spike	T	Solid	8270C LL	660-134819
680-87655-A-65-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-134819

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87655-3
Sdg Number: 68087655-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-134810					
MB 660-134810/1	Method Blank	T	Solid	Moisture	
680-87655-41	FM0161KKKK-CS	T	Solid	Moisture	
680-87655-41MS	Matrix Spike	T	Solid	Moisture	
680-87655-41MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-87655-42	FM0161LLLL-CS	T	Solid	Moisture	
680-87655-43	FM0161LLLL-CSD	T	Solid	Moisture	
680-87655-44	FM0161MMMM-CS	T	Solid	Moisture	
680-87655-45	FM0161NNNN-CS	T	Solid	Moisture	
680-87655-46	FM0161OOOO-CS	T	Solid	Moisture	
680-87655-47	FM0161PPPP-CS	T	Solid	Moisture	
680-87655-48	FM0161PPPP-CSD	T	Solid	Moisture	
680-87655-49	FM0161QQQQ-CS	T	Solid	Moisture	
680-87655-52	FM0161TTTT-CS	T	Solid	Moisture	
680-87655-53	FM0161AY-GS	T	Solid	Moisture	
680-87655-54	FM0161AZ-GS	T	Solid	Moisture	
680-87655-55	FM0161ABB-GS	T	Solid	Moisture	
680-87655-56	FM0161ACC-GS	T	Solid	Moisture	
680-87655-57	FM0161ADD-GS	T	Solid	Moisture	
680-87655-58	FM0161AEE-GS	T	Solid	Moisture	
680-87655-59	CV0038A-CS-SP	T	Solid	Moisture	
680-87655-60	CV0038B-CS-SP	T	Solid	Moisture	
680-87655-A-65 MS	Matrix Spike	T	Solid	Moisture	
680-87655-A-65 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
Analysis Batch:660-134815					
LCS 660-134815/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-134815/12	Lab Control Sample Duplicate	T	Solid	Moisture	
680-87655-50	FM0161RRRR-CS	T	Solid	Moisture	
680-87655-51	FM0161SSSS-CS	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Instrument ID: BSMC5973 Analysis Batch Number: 134776

Lab Sample ID: IC 660-134776/3 Client Sample ID:

Date Analyzed: 02/22/13 11:57 Lab File ID: 1CB22003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:13

Lab Sample ID: IC 660-134776/4 Client Sample ID:

Date Analyzed: 02/22/13 12:16 Lab File ID: 1CB22004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.22	Split Peak	cantins	02/22/13 14:14

Lab Sample ID: IC 660-134776/5 Client Sample ID:

Date Analyzed: 02/22/13 12:34 Lab File ID: 1CB22005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:14

Lab Sample ID: IC 660-134776/6 Client Sample ID:

Date Analyzed: 02/22/13 12:53 Lab File ID: 1CB22006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:14

Lab Sample ID: ICIS 660-134776/7 Client Sample ID:

Date Analyzed: 02/22/13 13:11 Lab File ID: 1CB22007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:11

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Instrument ID: BSMC5973 Analysis Batch Number: 134776

Lab Sample ID: IC 660-134776/8 Client Sample ID:

Date Analyzed: 02/22/13 13:29 Lab File ID: 1CB22008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:15

Lab Sample ID: IC 660-134776/9 Client Sample ID:

Date Analyzed: 02/22/13 13:48 Lab File ID: 1CB22009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.24	Split Peak	cantins	02/22/13 14:15

Lab Sample ID: ICV 660-134776/10 Client Sample ID:

Date Analyzed: 02/22/13 14:06 Lab File ID: 1CB22010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:21

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Instrument ID: BSMC5973 Analysis Batch Number: 134903

Lab Sample ID: CCVIS 660-134903/16 Client Sample ID:

Date Analyzed: 02/27/13 16:15 Lab File ID: 1CB27015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.22	Split Peak	cantins	02/27/13 16:31

Lab Sample ID: LCS 660-134818/2-A Client Sample ID:

Date Analyzed: 02/27/13 17:10 Lab File ID: 1CB27018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.21	Split Peak	cantins	03/01/13 13:26

Lab Sample ID: 680-87655-41 Client Sample ID: FM0161KKKK-CS

Date Analyzed: 02/27/13 18:42 Lab File ID: 1CB27023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.21	Split Peak	cantins	03/01/13 13:32
Dibenz(a,h)anthracene	10.23	Baseline Event	cantins	03/01/13 13:31

Lab Sample ID: 680-87655-41 MS Client Sample ID: FM0161KKKK-CS MS

Date Analyzed: 02/27/13 19:00 Lab File ID: 1CB27024.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.22	Split Peak	cantins	03/01/13 13:32

Lab Sample ID: 680-87655-41 MSD Client Sample ID: FM0161KKKK-CS MSD

Date Analyzed: 02/27/13 19:18 Lab File ID: 1CB27025.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.22	Split Peak	cantins	03/01/13 13:33
Dibenz(a,h)anthracene	10.23	Baseline Event	cantins	03/01/13 13:33

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Instrument ID: BSMC5973 Analysis Batch Number: 134903

Lab Sample ID: 680-87655-42 Client Sample ID: FM0161LLLL-CS

Date Analyzed: 02/27/13 19:37 Lab File ID: 1CB27026.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.65	Split Peak	cantins	03/01/13 13:33
Benzo[k]fluoranthene	8.66	Baseline Event	cantins	03/01/13 13:34
Indeno[1,2,3-cd]pyrene	10.22	Split Peak	cantins	03/01/13 13:34

Lab Sample ID: 680-87655-43 Client Sample ID: FM0161LLLL-CSD

Date Analyzed: 02/27/13 19:55 Lab File ID: 1CB27027.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.65	Split Peak	cantins	03/01/13 13:34
Benzo[k]fluoranthene	8.66	Baseline Event	cantins	03/01/13 13:35
Indeno[1,2,3-cd]pyrene	10.22	Split Peak	cantins	03/01/13 13:35
Dibenz(a,h)anthracene	10.24	Baseline Event	cantins	03/01/13 13:35

Lab Sample ID: 680-87655-44 Client Sample ID: FM0161MMMM-CS

Date Analyzed: 02/27/13 20:13 Lab File ID: 1CB27028.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.65	Split Peak	cantins	03/01/13 13:37
Benzo[k]fluoranthene	8.66	Baseline Event	cantins	03/01/13 13:37
Indeno[1,2,3-cd]pyrene	10.22	Split Peak	cantins	03/01/13 13:38
Dibenz(a,h)anthracene	10.23	Baseline Event	cantins	03/01/13 13:38

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Instrument ID: BSMC5973 Analysis Batch Number: 134903

Lab Sample ID: 680-87655-45 Client Sample ID: FM0161NNNN-CS

Date Analyzed: 02/27/13 20:32 Lab File ID: 1CB27029.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.66	Baseline Event	cantins	03/01/13 13:39
Indeno[1,2,3-cd]pyrene	10.22	Split Peak	cantins	03/01/13 13:40
Dibenz(a,h)anthracene	10.23	Baseline Event	cantins	03/01/13 13:39
Benzo[g,h,i]perylene	10.57	Baseline Event	cantins	03/01/13 13:39

Lab Sample ID: 680-87655-46 Client Sample ID: FM0161OOOO-CS

Date Analyzed: 02/27/13 20:50 Lab File ID: 1CB27030.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.65	Split Peak	cantins	03/01/13 13:40
Benzo[k]fluoranthene	8.66	Baseline Event	cantins	03/01/13 13:40
Indeno[1,2,3-cd]pyrene	10.22	Split Peak	cantins	03/01/13 13:41

Lab Sample ID: 680-87655-47 Client Sample ID: FM0161PPPP-CS

Date Analyzed: 02/27/13 21:08 Lab File ID: 1CB27031.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.21	Split Peak	cantins	03/01/13 13:41
Benzo[g,h,i]perylene	10.58	Baseline Event	cantins	03/01/13 13:41

Lab Sample ID: 680-87655-48 Client Sample ID: FM0161PPPP-CSD

Date Analyzed: 02/27/13 21:27 Lab File ID: 1CB27032.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.21	Split Peak	cantins	03/01/13 13:43

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Instrument ID: BSMC5973 Analysis Batch Number: 134903

Lab Sample ID: 680-87655-49 Client Sample ID: FM0161QQQQ-CS

Date Analyzed: 02/27/13 21:45 Lab File ID: 1CB27033.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.65	Split Peak	cantins	03/01/13 13:44
Benzo[k]fluoranthene	8.66	Baseline Event	cantins	03/01/13 13:44
Indeno[1,2,3-cd]pyrene	10.22	Split Peak	cantins	03/01/13 13:45
Benzo[g,h,i]perylene	10.59	Baseline Event	cantins	03/01/13 13:45

Lab Sample ID: 680-87655-50 Client Sample ID: FM0161RRRR-CS

Date Analyzed: 02/27/13 22:04 Lab File ID: 1CB27034.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.22	Split Peak	cantins	03/01/13 13:46
Dibenz(a,h)anthracene	10.23	Baseline Event	cantins	03/01/13 13:45

Lab Sample ID: 680-87655-51 Client Sample ID: FM0161SSSS-CS

Date Analyzed: 02/27/13 22:22 Lab File ID: 1CB27035.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.65	Split Peak	cantins	03/01/13 13:46
Benzo[k]fluoranthene	8.66	Baseline Event	cantins	03/01/13 13:47
Indeno[1,2,3-cd]pyrene	10.22	Split Peak	cantins	03/01/13 13:47
Benzo[g,h,i]perylene	10.57	Baseline Event	cantins	03/01/13 13:47

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Instrument ID: BSMC5973 Analysis Batch Number: 134903

Lab Sample ID: 680-87655-52 Client Sample ID: FM0161TTTT-CS

Date Analyzed: 02/27/13 22:40 Lab File ID: 1CB27036.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.65	Split Peak	cantins	03/01/13 13:48
Benzo[k]fluoranthene	8.67	Baseline Event	cantins	03/01/13 13:48
Indeno[1,2,3-cd]pyrene	10.22	Split Peak	cantins	03/01/13 13:48
Dibenz(a,h)anthracene	10.23	Baseline Event	cantins	03/01/13 13:48
Benzo[g,h,i]perylene	10.58	Baseline Event	cantins	03/01/13 13:48

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Instrument ID: BSMC5973 Analysis Batch Number: 135011

Lab Sample ID: CCVIS 660-135011/3 Client Sample ID:

Date Analyzed: 02/28/13 11:56 Lab File ID: 1CB28003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.19	Split Peak	cantins	02/28/13 12:17

Lab Sample ID: LCS 660-134819/2-A Client Sample ID:

Date Analyzed: 02/28/13 16:48 Lab File ID: 1CB28006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.19	Split Peak	cantins	03/04/13 10:56

Lab Sample ID: 680-87655-57 Client Sample ID: FM0161ADD-GS

Date Analyzed: 02/28/13 17:06 Lab File ID: 1CB28007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.62	Split Peak	cantins	03/04/13 10:56
Benzo[k]fluoranthene	8.65	Baseline Event	cantins	03/04/13 10:56
Indeno[1,2,3-cd]pyrene	10.18	Split Peak	cantins	03/04/13 10:57

Lab Sample ID: 680-87655-58 Client Sample ID: FM0161AEE-GS

Date Analyzed: 02/28/13 17:25 Lab File ID: 1CB28008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.17	Split Peak	cantins	03/04/13 10:58
Dibenz(a,h)anthracene	10.20	Baseline Event	cantins	03/04/13 10:58
Benzo[g,h,i]perylene	10.54	Baseline Event	cantins	03/04/13 10:58

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Instrument ID: BSMC5973 Analysis Batch Number: 135011

Lab Sample ID: 680-87655-59 Client Sample ID: CV0038A-CS-SP

Date Analyzed: 02/28/13 17:43 Lab File ID: 1CB28009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.62	Split Peak	cantins	03/04/13 10:59
Benzo[k]fluoranthene	8.65	Baseline Event	cantins	03/04/13 10:59
Indeno[1,2,3-cd]pyrene	10.18	Split Peak	cantins	03/04/13 11:00

Lab Sample ID: 680-87655-60 Client Sample ID: CV0038B-CS-SP

Date Analyzed: 02/28/13 18:02 Lab File ID: 1CB28010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.63	Split Peak	cantins	03/04/13 11:00
Benzo[k]fluoranthene	8.65	Baseline Event	cantins	03/04/13 11:00
Indeno[1,2,3-cd]pyrene	10.17	Split Peak	cantins	03/04/13 11:01

Lab Sample ID: 680-87655-A-65-B MS Client Sample ID:

Date Analyzed: 02/28/13 19:52 Lab File ID: 1CB28016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.19	Split Peak	cantins	03/04/13 11:22

Lab Sample ID: 680-87655-A-65-C MSD Client Sample ID:

Date Analyzed: 02/28/13 20:10 Lab File ID: 1CB28017.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.19	Split Peak	cantins	03/04/13 11:23

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Instrument ID: BSMD5973 Analysis Batch Number: 134781

Lab Sample ID: IC 660-134781/3 Client Sample ID:

Date Analyzed: 02/22/13 12:13 Lab File ID: 1DB22003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	14.97	Baseline Event	cantins	02/22/13 14:57
Benzo[g,h,i]perylene	15.38	Baseline Event	cantins	02/22/13 14:57

Lab Sample ID: IC 660-134781/4 Client Sample ID:

Date Analyzed: 02/22/13 12:35 Lab File ID: 1DB22004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.93	Split Peak	cantins	02/22/13 14:58

Lab Sample ID: IC 660-134781/5 Client Sample ID:

Date Analyzed: 02/22/13 12:58 Lab File ID: 1DB22005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.94	Split Peak	cantins	02/22/13 14:58

Lab Sample ID: IC 660-134781/6 Client Sample ID:

Date Analyzed: 02/22/13 13:21 Lab File ID: 1DB22006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.94	Split Peak	cantins	02/22/13 14:59

Lab Sample ID: IC 660-134781/9 Client Sample ID:

Date Analyzed: 02/22/13 14:28 Lab File ID: 1DB22009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.00	Split Peak	cantins	02/22/13 15:00

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Instrument ID: BSMD5973 Analysis Batch Number: 134781

Lab Sample ID: ICV 660-134781/10 Client Sample ID:

Date Analyzed: 02/22/13 14:51 Lab File ID: 1DB22010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	9.32	Baseline Event	cantins	02/22/13 15:27

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Instrument ID: BSMD5973 Analysis Batch Number: 134905

Lab Sample ID: CCVIS 660-134905/6 Client Sample ID:

Date Analyzed: 02/27/13 13:17 Lab File ID: 1DB27006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.96	Split Peak	cantins	02/27/13 14:11

Lab Sample ID: 680-87655-53 Client Sample ID: FM0161AY-GS

Date Analyzed: 02/27/13 17:05 Lab File ID: 1DB27015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.94	Split Peak	cantins	03/01/13 13:53

Lab Sample ID: 680-87655-54 Client Sample ID: FM0161AZ-GS

Date Analyzed: 02/27/13 17:28 Lab File ID: 1DB27016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.94	Split Peak	cantins	03/01/13 13:54

Lab Sample ID: 680-87655-55 Client Sample ID: FM0161ABB-GS

Date Analyzed: 02/27/13 17:50 Lab File ID: 1DB27017.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.95	Split Peak	cantins	03/01/13 13:55
Benzo[g,h,i]perylene	15.42	Baseline Event	cantins	03/01/13 13:55

Lab Sample ID: 680-87655-56 Client Sample ID: FM0161ACC-GS

Date Analyzed: 02/27/13 18:13 Lab File ID: 1DB27018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.95	Split Peak	cantins	03/01/13 13:56
Benzo[g,h,i]perylene	15.41	Baseline Event	cantins	03/01/13 13:56

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.: 680-87655-3

SDG No.: 68087655-3

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
FM0161KKKK-CS	680-87655-41	75
FM0161LLLL-CS	680-87655-42	69
FM0161LLLL-CSD	680-87655-43	76
FM0161MMMM-CS	680-87655-44	82
FM0161NNNN-CS	680-87655-45	74
FM0161OOOO-CS	680-87655-46	64
FM0161PPPP-CS	680-87655-47	62
FM0161PPPP-CSD	680-87655-48	68
FM0161QQQQ-CS	680-87655-49	72
FM0161RRRR-CS	680-87655-50	69
FM0161SSSS-CS	680-87655-51	72
FM0161TTTT-CS	680-87655-52	57
FM0161AY-GS	680-87655-53	55
FM0161AZ-GS	680-87655-54	84
FM0161ABB-GS	680-87655-55	77
FM0161ACC-GS	680-87655-56	72
FM0161ADD-GS	680-87655-57	69
FM0161AEE-GS	680-87655-58	58
CV0038A-CS-SP	680-87655-59	91
CV0038B-CS-SP	680-87655-60	90
	MB 660-134818/1-A	86
	MB 660-134819/1-A	79
	LCS 660-134818/2-A	77
	LCS 660-134819/2-A	76
	680-87655-A-65-B MS	58
FM0161KKKK-CS MS	680-87655-41 MS	79
	680-87655-A-65-C MSD	64
FM0161KKKK-CS MSD	680-87655-41 MSD	83

	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.: 680-87655-3

SDG No.: 68087655-3

Matrix: Solid Level: Low Lab File ID: 1CB27018.D

Lab ID: LCS 660-134818/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	662	478	72	39-130	
Acenaphthylene	662	478	72	38-130	
Anthracene	662	470	71	37-130	
Benzo[a]anthracene	662	462	70	40-130	
Benzo[a]pyrene	662	428	65	49-130	
Benzo[b]fluoranthene	662	446	67	37-130	
Benzo[g,h,i]perylene	662	413	62	32-130	
Benzo[k]fluoranthene	662	539	81	32-130	
Chrysene	662	450	68	41-130	
Dibenz(a,h)anthracene	662	462	70	27-130	
Fluoranthene	662	469	71	40-130	
Fluorene	662	485	73	40-130	
Indeno[1,2,3-cd]pyrene	662	394	60	30-130	
1-Methylnaphthalene	662	491	74	31-130	
2-Methylnaphthalene	662	465	70	33-130	
Naphthalene	662	456	69	36-130	
Phenanthrene	662	457	69	42-130	
Pyrene	662	476	72	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.: 680-87655-3

SDG No.: 68087655-3

Matrix: Solid Level: Low Lab File ID: 1CB28006.D

Lab ID: LCS 660-134819/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	668	445	67	39-130	
Acenaphthylene	668	440	66	38-130	
Anthracene	668	449	67	37-130	
Benzo[a]anthracene	668	469	70	40-130	
Benzo[a]pyrene	668	438	65	49-130	
Benzo[b]fluoranthene	668	424	63	37-130	
Benzo[g,h,i]perylene	668	444	66	32-130	
Benzo[k]fluoranthene	668	503	75	32-130	
Chrysene	668	435	65	41-130	
Dibenz(a,h)anthracene	668	462	69	27-130	
Fluoranthene	668	481	72	40-130	
Fluorene	668	453	68	40-130	
Indeno[1,2,3-cd]pyrene	668	464	69	30-130	
1-Methylnaphthalene	668	482	72	31-130	
2-Methylnaphthalene	668	465	70	33-130	
Naphthalene	668	461	69	36-130	
Phenanthrene	668	429	64	42-130	
Pyrene	668	450	67	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.: 680-87655-3

SDG No.: 68087655-3

Matrix: Solid Level: Low Lab File ID: 1CB28016.D

Lab ID: 680-87655-A-65-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	773	120 U	399	52	39-130	
Acenaphthylene	773	46 U	434	56	38-130	
Anthracene	773	7.1 J	419	53	37-130	
Benzo[a]anthracene	773	20	456	56	40-130	
Benzo[a]pyrene	773	18	403	50	49-130	
Benzo[b]fluoranthene	773	30	506	62	37-130	
Benzo[g,h,i]perylene	773	17 J	368	45	32-130	
Benzo[k]fluoranthene	773	16	432	54	32-130	
Chrysene	773	32	438	52	41-130	
Dibenz(a,h)anthracene	773	23 U	360	47	27-130	
Fluoranthene	773	38	509	61	40-130	
Fluorene	773	23 U	442	57	40-130	
Indeno[1,2,3-cd]pyrene	773	11 J	358	45	30-130	
1-Methylnaphthalene	773	18 J	497	62	31-130	
2-Methylnaphthalene	773	22 J	426	52	33-130	
Naphthalene	773	28 J	440	53	36-130	
Phenanthrene	773	32	453	54	42-130	
Pyrene	773	34	559	68	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.: 680-87655-3

SDG No.: 68087655-3

Matrix: Solid Level: Low Lab File ID: 1CB27024.D

Lab ID: 680-87655-41 MS Client ID: FM0161KKKK-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	888	130 U	642	72	39-130	
Acenaphthylene	888	9.2 J	656	73	38-130	
Anthracene	888	14	675	74	37-130	
Benzo[a]anthracene	888	65	719	74	40-130	
Benzo[a]pyrene	888	58	651	67	49-130	
Benzo[b]fluoranthene	888	120	828	80	37-130	
Benzo[g,h,i]perylene	888	58	631	65	32-130	
Benzo[k]fluoranthene	888	30	702	76	32-130	
Chrysene	888	96	739	72	41-130	
Dibenz(a,h)anthracene	888	19 J	601	65	27-130	
Fluoranthene	888	100	779	76	40-130	
Fluorene	888	11 J	664	73	40-130	
Indeno[1,2,3-cd]pyrene	888	39	620	65	30-130	
1-Methylnaphthalene	888	58	751	78	31-130	
2-Methylnaphthalene	888	60	689	71	33-130	
Naphthalene	888	59	690	71	36-130	
Phenanthrene	888	91	705	69	42-130	
Pyrene	888	100	836	82	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.: 680-87655-3

SDG No.: 68087655-3

Matrix: Solid Level: Low Lab File ID: 1CB28017.D

Lab ID: 680-87655-A-65-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	773	456	59	13	40	39-130	
Acenaphthylene	773	483	62	11	40	38-130	
Anthracene	773	451	57	7	40	37-130	
Benzo[a]anthracene	773	458	57	0	40	40-130	
Benzo[a]pyrene	773	415	51	3	40	49-130	
Benzo[b]fluoranthene	773	535	65	5	40	37-130	
Benzo[g,h,i]perylene	773	390	48	6	40	32-130	
Benzo[k]fluoranthene	773	451	56	4	40	32-130	
Chrysene	773	447	54	2	40	41-130	
Dibenz(a,h)anthracene	773	436	56	19	40	27-130	
Fluoranthene	773	479	57	6	40	40-130	
Fluorene	773	480	62	8	40	40-130	
Indeno[1,2,3-cd]pyrene	773	403	51	12	40	30-130	
1-Methylnaphthalene	773	542	68	9	40	31-130	
2-Methylnaphthalene	773	522	65	20	40	33-130	
Naphthalene	773	505	62	14	40	36-130	
Phenanthrene	773	460	55	1	40	42-130	
Pyrene	773	533	64	5	40	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Matrix: Solid Level: Low Lab File ID: 1CB27025.D

Lab ID: 680-87655-41 MSD Client ID: FM0161KKKK-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	888	692	78	8	40	39-130	
Acenaphthylene	888	732	81	11	40	38-130	
Anthracene	888	699	77	4	40	37-130	
Benzo[a]anthracene	888	804	83	11	40	40-130	
Benzo[a]pyrene	888	719	74	10	40	49-130	
Benzo[b]fluoranthene	888	869	84	5	40	37-130	
Benzo[g,h,i]perylene	888	672	69	6	40	32-130	
Benzo[k]fluoranthene	888	750	81	7	40	32-130	
Chrysene	888	737	72	0	40	41-130	
Dibenz(a,h)anthracene	888	684	75	13	40	27-130	
Fluoranthene	888	795	78	2	40	40-130	
Fluorene	888	724	80	9	40	40-130	
Indeno[1,2,3-cd]pyrene	888	664	70	7	40	30-130	
1-Methylnaphthalene	888	824	86	9	40	31-130	
2-Methylnaphthalene	888	802	83	15	40	33-130	
Naphthalene	888	764	79	10	40	36-130	
Phenanthrene	888	749	74	6	40	42-130	
Pyrene	888	915	91	9	40	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Lab File ID: 1CB27017.D Lab Sample ID: MB 660-134818/1-A

Matrix: Solid Date Extracted: 02/25/2013 14:06

Instrument ID: BSMC5973 Date Analyzed: 02/27/2013 16:52

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
FM0161AY-GS	680-87655-53	1DB27015.D	02/27/2013 17:05
	LCS 660-134818/2-A	1CB27018.D	02/27/2013 17:10
FM0161AZ-GS	680-87655-54	1DB27016.D	02/27/2013 17:28
FM0161ABB-GS	680-87655-55	1DB27017.D	02/27/2013 17:50
FM0161ACC-GS	680-87655-56	1DB27018.D	02/27/2013 18:13
FM0161KKKK-CS	680-87655-41	1CB27023.D	02/27/2013 18:42
FM0161KKKK-CS MS	680-87655-41 MS	1CB27024.D	02/27/2013 19:00
FM0161KKKK-CS MSD	680-87655-41 MSD	1CB27025.D	02/27/2013 19:18
FM0161LLLL-CS	680-87655-42	1CB27026.D	02/27/2013 19:37
FM0161LLLL-CSD	680-87655-43	1CB27027.D	02/27/2013 19:55
FM0161MMMM-CS	680-87655-44	1CB27028.D	02/27/2013 20:13
FM0161NNNN-CS	680-87655-45	1CB27029.D	02/27/2013 20:32
FM0161OOOO-CS	680-87655-46	1CB27030.D	02/27/2013 20:50
FM0161PPPP-CS	680-87655-47	1CB27031.D	02/27/2013 21:08
FM0161PPPP-CSD	680-87655-48	1CB27032.D	02/27/2013 21:27
FM0161QQQQ-CS	680-87655-49	1CB27033.D	02/27/2013 21:45
FM0161RRRR-CS	680-87655-50	1CB27034.D	02/27/2013 22:04
FM0161SSSS-CS	680-87655-51	1CB27035.D	02/27/2013 22:22
FM0161TTTT-CS	680-87655-52	1CB27036.D	02/27/2013 22:40

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Lab File ID: 1CB28005.D Lab Sample ID: MB 660-134819/1-A

Matrix: Solid Date Extracted: 02/25/2013 15:00

Instrument ID: BSMC5973 Date Analyzed: 02/28/2013 16:30

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-134819/2-A	1CB28006.D	02/28/2013 16:48
FM0161ADD-GS	680-87655-57	1CB28007.D	02/28/2013 17:06
FM0161AEE-GS	680-87655-58	1CB28008.D	02/28/2013 17:25
CV0038A-CS-SP	680-87655-59	1CB28009.D	02/28/2013 17:43
CV0038B-CS-SP	680-87655-60	1CB28010.D	02/28/2013 18:02
	680-87655-A-65-B MS	1CB28016.D	02/28/2013 19:52
	680-87655-A-65-C MSD	1CB28017.D	02/28/2013 20:10

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

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Lab File ID: 1CB22002.D DFTPP Injection Date: 02/22/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:41

Analysis Batch No.: 134776

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	42.3	
68	Less than 2.0 % of mass 69	0.6	(1.1)1
69	Mass 69 relative abundance	59.2	
70	Less than 2.0 % of mass 69	0.3	(0.4)1
127	10.0 - 80.0 % of mass 198	53.6	
197	Less than 2.0 % of mass 198	1.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	8.6	
275	10.0 - 60.0 % of mass 198	19.2	
365	Greater than 1.0 % of mass 198	2.0	
441	Present but less than mass 443	7.5	
442	Greater than 50.0 % of mass 198	52.1	
443	15.0 - 24.0 % of mass 442	8.7	(16.7)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-134776/3	1CB22003.D	02/22/2013	11:57
	IC 660-134776/4	1CB22004.D	02/22/2013	12:16
	IC 660-134776/5	1CB22005.D	02/22/2013	12:34
	IC 660-134776/6	1CB22006.D	02/22/2013	12:53
	ICIS 660-134776/7	1CB22007.D	02/22/2013	13:11
	IC 660-134776/8	1CB22008.D	02/22/2013	13:29
	IC 660-134776/9	1CB22009.D	02/22/2013	13:48
	ICV 660-134776/10	1CB22010.D	02/22/2013	14:06

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

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Lab File ID: 1CB27002.D DFTPP Injection Date: 02/27/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:24

Analysis Batch No.: 134903

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	35.9	
68	Less than 2.0 % of mass 69	0.9	(1.8)1
69	Mass 69 relative abundance	47.9	
70	Less than 2.0 % of mass 69	0.4	(0.9)1
127	10.0 - 80.0 % of mass 198	43.3	
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	7.5	
275	10.0 - 60.0 % of mass 198	19.6	
365	Greater than 1.0 % of mass 198	3.1	
441	Present but less than mass 443	9.3	
442	Greater than 50.0 % of mass 198	60.6	
443	15.0 - 24.0 % of mass 442	13.3	(22.0)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-134903/16	1CB27015.D	02/27/2013	16:15
	MB 660-134818/1-A	1CB27017.D	02/27/2013	16:52
	LCS 660-134818/2-A	1CB27018.D	02/27/2013	17:10
FM0161KKKK-CS	680-87655-41	1CB27023.D	02/27/2013	18:42
FM0161KKKK-CS MS	680-87655-41 MS	1CB27024.D	02/27/2013	19:00
FM0161KKKK-CS MSD	680-87655-41 MSD	1CB27025.D	02/27/2013	19:18
FM0161LLLL-CS	680-87655-42	1CB27026.D	02/27/2013	19:37
FM0161LLLL-CSD	680-87655-43	1CB27027.D	02/27/2013	19:55
FM0161MMMM-CS	680-87655-44	1CB27028.D	02/27/2013	20:13
FM0161NNNN-CS	680-87655-45	1CB27029.D	02/27/2013	20:32
FM0161OOOO-CS	680-87655-46	1CB27030.D	02/27/2013	20:50
FM0161PPPP-CS	680-87655-47	1CB27031.D	02/27/2013	21:08
FM0161PPPP-CSD	680-87655-48	1CB27032.D	02/27/2013	21:27
FM0161QQQQ-CS	680-87655-49	1CB27033.D	02/27/2013	21:45
FM0161RRRR-CS	680-87655-50	1CB27034.D	02/27/2013	22:04
FM0161SSSS-CS	680-87655-51	1CB27035.D	02/27/2013	22:22
FM0161TTTT-CS	680-87655-52	1CB27036.D	02/27/2013	22:40

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

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Lab File ID: 1CB28002.D DFTPP Injection Date: 02/28/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:39

Analysis Batch No.: 135011

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	29.9	
68	Less than 2.0 % of mass 69	0.7	(1.8)1
69	Mass 69 relative abundance	40.3	
70	Less than 2.0 % of mass 69	0.3	(0.6)1
127	10.0 - 80.0 % of mass 198	44.9	
197	Less than 2.0 % of mass 198	1.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.2	
275	10.0 - 60.0 % of mass 198	21.4	
365	Greater than 1.0 % of mass 198	3.2	
441	Present but less than mass 443	13.4	
442	Greater than 50.0 % of mass 198	88.9	
443	15.0 - 24.0 % of mass 442	16.2	(18.2)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-135011/3	1CB28003.D	02/28/2013	11:56
	MB 660-134819/1-A	1CB28005.D	02/28/2013	16:30
	LCS 660-134819/2-A	1CB28006.D	02/28/2013	16:48
FM0161ADD-GS	680-87655-57	1CB28007.D	02/28/2013	17:06
FM0161AEE-GS	680-87655-58	1CB28008.D	02/28/2013	17:25
CV0038A-CS-SP	680-87655-59	1CB28009.D	02/28/2013	17:43
CV0038B-CS-SP	680-87655-60	1CB28010.D	02/28/2013	18:02
	680-87655-A-65-B MS	1CB28016.D	02/28/2013	19:52
	680-87655-A-65-C MSD	1CB28017.D	02/28/2013	20:10

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

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Lab File ID: 1DB22002.D DFTPP Injection Date: 02/22/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 11:57

Analysis Batch No.: 134781

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	46.9	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	46.6	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	50.9	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.9	
275	10.0 - 60.0 % of mass 198	25.1	
365	Greater than 1.0 % of mass 198	2.9	
441	Present but less than mass 443	10.4	
442	Greater than 50.0 % of mass 198	64.5	
443	15.0 - 24.0 % of mass 442	13.2	(20.5)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-134781/3	1DB22003.D	02/22/2013	12:13
	IC 660-134781/4	1DB22004.D	02/22/2013	12:35
	IC 660-134781/5	1DB22005.D	02/22/2013	12:58
	IC 660-134781/6	1DB22006.D	02/22/2013	13:21
	ICIS 660-134781/7	1DB22007.D	02/22/2013	13:43
	IC 660-134781/8	1DB22008.D	02/22/2013	14:06
	IC 660-134781/9	1DB22009.D	02/22/2013	14:28
	ICV 660-134781/10	1DB22010.D	02/22/2013	14:51

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

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Lab File ID: 1DB27002.D DFTPP Injection Date: 02/27/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 11:38

Analysis Batch No.: 134905

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	36.3	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	38.7	
70	Less than 2.0 % of mass 69	0.4	(1.0)1
127	10.0 - 80.0 % of mass 198	43.3	
197	Less than 2.0 % of mass 198	1.5	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.9	
275	10.0 - 60.0 % of mass 198	29.2	
365	Greater than 1.0 % of mass 198	3.2	
441	Present but less than mass 443	14.3	
442	Greater than 50.0 % of mass 198	93.2	
443	15.0 - 24.0 % of mass 442	19.0	(20.4)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-134905/6	1DB27006.D	02/27/2013	13:17
FM0161AY-GS	680-87655-53	1DB27015.D	02/27/2013	17:05
FM0161AZ-GS	680-87655-54	1DB27016.D	02/27/2013	17:28
FM0161ABB-GS	680-87655-55	1DB27017.D	02/27/2013	17:50
FM0161ACC-GS	680-87655-56	1DB27018.D	02/27/2013	18:13

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

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Sample No.: ICIS 660-134776/7 Date Analyzed: 02/22/2013 13:11

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1CB22007.D Heated Purge: (Y/N) N

Calibration ID: 2760

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1215005	3.80	932815	4.89	1859738	5.85
UPPER LIMIT		2430010	4.30	1865630	5.39	3719476	6.35
LOWER LIMIT		607503	3.30	466408	4.39	929869	5.35
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134776/10		1383069	3.80	1075067	4.89	2141313	5.85

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Sample No.: ICIS 660-134776/7 Date Analyzed: 02/22/2013 13:11

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1CB22007.D Heated Purge: (Y/N) N

Calibration ID: 2760

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2424157	7.80	2664188	9.02		
UPPER LIMIT		4848314	8.30	5328376	9.52		
LOWER LIMIT		1212079	7.30	1332094	8.52		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134776/10		2766374	7.80	3034368	9.02		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Sample No.: CCVIS 660-134903/16 Date Analyzed: 02/27/2013 16:15

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1CB27015.D Heated Purge: (Y/N) N

Calibration ID: 2760

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1382498	3.79	1062974	4.88	1973786	5.84
UPPER LIMIT		2764996	4.29	2125948	5.38	3947572	6.34
LOWER LIMIT		691249	3.29	531487	4.38	986893	5.34
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134818/1-A		1419429	3.79	1108886	4.88	2078632	5.84
LCS 660-134818/2-A		1423351	3.79	1105016	4.89	2170027	5.84
680-87655-41	FM0161KKKK-CS	1681972	3.79	1325066	4.89	2546822	5.84
680-87655-41 MS	FM0161KKKK-CS MS	1683009	3.79	1340594	4.89	2509689	5.84
680-87655-41 MSD	FM0161KKKK-CS MSD	1607027	3.79	1296580	4.89	2485135	5.84
680-87655-42	FM0161LLLL-CS	1662995	3.79	1319801	4.89	2505382	5.84
680-87655-43	FM0161LLLL-CSD	1685175	3.79	1363791	4.89	2540305	5.84
680-87655-44	FM0161MMMM-CS	1649811	3.79	1298574	4.89	2444692	5.84
680-87655-45	FM0161NNNN-CS	1781718	3.79	1425005	4.89	2598829	5.84
680-87655-46	FM0161OOOO-CS	1779417	3.79	1377979	4.89	2615036	5.84
680-87655-47	FM0161PPPP-CS	1689974	3.79	1354471	4.89	2569748	5.84
680-87655-48	FM0161PPPP-CSD	1703498	3.79	1371678	4.89	2543283	5.84
680-87655-49	FM0161QQQQ-CS	1712629	3.79	1414589	4.89	2584415	5.84
680-87655-50	FM0161RRRR-CS	1855399	3.79	1452687	4.89	2674575	5.84
680-87655-51	FM0161SSSS-CS	1851408	3.80	1455702	4.89	2617354	5.84
680-87655-52	FM0161TTTT-CS	2060246	3.79	1618729	4.89	2934941	5.84

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.: 680-87655-3

SDG No.: 68087655-3

Sample No.: CCVIS 660-134903/16 Date Analyzed: 02/27/2013 16:15

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1CB27015.D Heated Purge: (Y/N) N

Calibration ID: 2760

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2448061	7.79	2348833	9.00		
UPPER LIMIT		4896122	8.29	4697666	9.50		
LOWER LIMIT		1224031	7.29	1174417	8.50		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134818/1-A		2680831	7.79	2597567	9.00		
LCS 660-134818/2-A		2719015	7.79	2726288	9.00		
680-87655-41	FM0161KKKK-CS	2767410	7.79	2645233	9.00		
680-87655-41 MS	FM0161KKKK-CS MS	2765356	7.79	2585133	9.00		
680-87655-41 MSD	FM0161KKKK-CS MSD	2708341	7.79	2528332	9.00		
680-87655-42	FM0161LLLL-CS	2684223	7.79	2466631	9.00		
680-87655-43	FM0161LLLL-CSD	2712001	7.79	2530117	9.00		
680-87655-44	FM0161MMMM-CS	2601216	7.79	2398768	9.00		
680-87655-45	FM0161NNNN-CS	2798312	7.79	2578351	9.00		
680-87655-46	FM0161OOOO-CS	2762612	7.79	2573751	9.00		
680-87655-47	FM0161PPPP-CS	2695419	7.79	2462872	9.00		
680-87655-48	FM0161PPPP-CSD	2609879	7.79	2457613	9.01		
680-87655-49	FM0161QQQQ-CS	2675726	7.79	2423427	9.00		
680-87655-50	FM0161RRRR-CS	2678753	7.79	2472660	9.01		
680-87655-51	FM0161SSSS-CS	2672432	7.79	2478847	9.00		
680-87655-52	FM0161TTTT-CS	3011720	7.79	2883978	9.01		

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.: 680-87655-3

SDG No.: 68087655-3

Sample No.: CCVIS 660-135011/3 Date Analyzed: 02/28/2013 11:56

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1CB28003.D Heated Purge: (Y/N) N

Calibration ID: 2760

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1258641	3.79	972943	4.87	1874302	5.83
UPPER LIMIT		2517282	4.29	1945886	5.37	3748604	6.33
LOWER LIMIT		629321	3.29	486472	4.37	937151	5.33
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134819/1-A		1344423	3.79	1004338	4.87	1995150	5.83
LCS 660-134819/2-A		1396453	3.79	1115591	4.87	2148999	5.83
680-87655-57	FM0161ADD-GS	1497831	3.79	1186005	4.87	2369688	5.83
680-87655-58	FM0161AEE-GS	1513287	3.79	1228678	4.87	2409392	5.83
680-87655-59	CV0038A-CS-SP	1504071	3.79	1175370	4.87	2351955	5.83
680-87655-60	CV0038B-CS-SP	1601643	3.79	1308271	4.87	2485752	5.83
680-87655-A-65-B MS		1857255	3.79	1546627	4.87	2961832	5.83
680-87655-A-65-C MSD		1775323	3.79	1493346	4.87	2857361	5.83

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.: 680-87655-3

SDG No.: 68087655-3

Sample No.: CCVIS 660-135011/3 Date Analyzed: 02/28/2013 11:56

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1CB28003.D Heated Purge: (Y/N) N

Calibration ID: 2760

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2360296	7.77	2373927	8.98		
UPPER LIMIT		4720592	8.27	4747854	9.48		
LOWER LIMIT		1180148	7.27	1186964	8.48		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134819/1-A		2467546	7.79	2596490	9.01		
LCS 660-134819/2-A		2802754	7.77	2932717	8.99		
680-87655-57	FM0161ADD-GS	2829196	7.77	2807021	8.98		
680-87655-58	FM0161AEE-GS	2815123	7.77	2691684	8.98		
680-87655-59	CV0038A-CS-SP	2682718	7.77	2641401	8.98		
680-87655-60	CV0038B-CS-SP	2738642	7.77	2612642	8.99		
680-87655-A-65-B MS		3129672	7.77	2835549	8.99		
680-87655-A-65-C MSD		3052496	7.77	2787512	8.99		

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.: 680-87655-3

SDG No.: 68087655-3

Sample No.: ICIS 660-134781/7 Date Analyzed: 02/22/2013 13:43

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

Lab File ID (Standard): 1DB22007.D Heated Purge: (Y/N) N

Calibration ID: 2761

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2851402	6.18	1685266	7.86	2758746	9.12
UPPER LIMIT		5702804	6.68	3370532	8.36	5517492	9.62
LOWER LIMIT		1425701	5.68	842633	7.36	1379373	8.62
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134781/10		3227519	6.19	1973397	7.86	3226971	9.12

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Sample No.: ICIS 660-134781/7 Date Analyzed: 02/22/2013 13:43

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

Lab File ID (Standard): 1DB22007.D Heated Purge: (Y/N) N

Calibration ID: 2761

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2741766	11.46	2903096	13.33		
UPPER LIMIT		5483532	11.96	5806192	13.83		
LOWER LIMIT		1370883	10.96	1451548	12.83		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134781/10		3262056	11.46	3389756	13.34		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Sample No.: CCVIS 660-134905/6 Date Analyzed: 02/27/2013 13:17

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

Lab File ID (Standard): 1DB27006.D Heated Purge: (Y/N) N

Calibration ID: 2761

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2030574	6.17	1170882	7.85	1876359	9.11
UPPER LIMIT		4061148	6.67	2341764	8.35	3752718	9.61
LOWER LIMIT		1015287	5.67	585441	7.35	938180	8.61
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-87655-53	FM0161AY-GS	2333395	6.17	1375346	7.85	2194237	9.11
680-87655-54	FM0161AZ-GS	2452066	6.17	1419018	7.85	2258599	9.11
680-87655-55	FM0161ABB-GS	2400053	6.18	1393006	7.85	2242624	9.11
680-87655-56	FM0161ACC-GS	2559655	6.18	1506111	7.85	2363450	9.11

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.: 680-87655-3

SDG No.: 68087655-3

Sample No.: CCVIS 660-134905/6 Date Analyzed: 02/27/2013 13:17

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

Lab File ID (Standard): 1DB27006.D Heated Purge: (Y/N) N

Calibration ID: 2761

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1785006	11.46	1861683	13.33		
UPPER LIMIT		3570012	11.96	3723366	13.83		
LOWER LIMIT		892503	10.96	930842	12.83		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-87655-53	FM0161AY-GS	2103218	11.45	2139333	13.33		
680-87655-54	FM0161AZ-GS	2112794	11.45	2177394	13.33		
680-87655-55	FM0161ABB-GS	2134059	11.46	2217340	13.34		
680-87655-56	FM0161ACC-GS	2278392	11.46	2364684	13.34		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87655-3

SDG No.: 68087655-3

Client Sample ID: FM0161KKKK-CS | Lab Sample ID: 680-87655-41

Matrix: Solid | Lab File ID: 1CB27023.D

Analysis Method: 8270C LL | Date Collected: 02/19/2013 12:58

Extract. Method: 3546 | Date Extracted: 02/25/2013 14:06

Sample wt/vol: 14.95(g) | Date Analyzed: 02/27/2013 18:42

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

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

% Moisture: 24.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134903 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	9.2	J	53	6.7
120-12-7	Anthracene	14		11	5.6
56-55-3	Benzo[a]anthracene	65		11	5.2
50-32-8	Benzo[a]pyrene	58		14	6.9
205-99-2	Benzo[b]fluoranthene	120		16	8.1
191-24-2	Benzo[g,h,i]perylene	58		27	5.9
207-08-9	Benzo[k]fluoranthene	30		11	4.8
218-01-9	Chrysene	96		12	6.0
53-70-3	Dibenz(a,h)anthracene	19	J	27	5.5
206-44-0	Fluoranthene	100		27	5.3
86-73-7	Fluorene	11	J	27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	39		27	9.5
90-12-0	1-Methylnaphthalene	58		53	5.9
91-57-6	2-Methylnaphthalene	60		53	9.5
91-20-3	Naphthalene	59		53	5.9
85-01-8	Phenanthrene	91		11	5.2
129-00-0	Pyrene	100		27	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	75		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\1CB27023.D
Lab Smp Id: 680-87655-A-41-A Client Smp ID: FM0161KKKK-CS
Inj Date : 27-FEB-2013 18:42
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87655-a-41-a
Misc Info : 680-87655-A-41-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\a-bFASTPAHi-m.m
Meth Date : 27-Feb-2013 16:31 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

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	24.714	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.792	3.792	(1.000)	1681972	40.0000	
* 6 Acenaphthene-d10	164	4.886	4.880	(1.000)	1325066	40.0000	
* 10 Phenanthrene-d10	188	5.839	5.839	(1.000)	2546822	40.0000	
$ 14 o-Terphenyl	230	6.092	6.092	(1.043)	289182	7.52047	668.1732
* 18 Chrysene-d12	240	7.786	7.792	(1.000)	2767410	40.0000	
* 23 Perylene-d12	264	9.003	9.004	(1.000)	2645233	40.0000	
2 Naphthalene	128	3.810	3.804	(1.005)	29307	0.66929	59.4647
3 2-Methylnaphthalene	142	4.233	4.233	(1.116)	19864	0.68007	60.4227
4 1-Methylnaphthalene	142	4.298	4.298	(1.133)	17383	0.65345	58.0569
5 Acenaphthylene	152	4.798	4.798	(0.982)	5559	0.10406	9.2452
9 Fluorene	166	5.221	5.221	(1.069)	5235	0.12466	11.0758(Q)
11 Phenanthrene	178	5.851	5.851	(1.002)	75617	1.02681	91.2290
12 Anthracene	178	5.886	5.886	(1.008)	11404	0.15834	14.0680
13 Carbazole	167	5.992	5.992	(1.026)	5450	0.08513	7.5632(Q)
15 Fluoranthene	202	6.692	6.698	(1.146)	94397	1.17048	103.9944

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.862	6.863	(0.881)	87476	1.17622	104.5043
17 Benzo(a)anthracene	228	7.780	7.780	(0.999)	58385	0.73097	64.9451
19 Chrysene	228	7.809	7.810	(1.003)	85935	1.07509	95.5189
20 Benzo(b)fluoranthene	252	8.639	8.645	(0.959)	93760	1.35629	120.5027
21 Benzo(k)fluoranthene	252	8.668	8.668	(0.963)	24070	0.33941	30.1559
22 Benzo(a)pyrene	252	8.945	8.945	(0.993)	43765	0.65177	57.9082
24 Indeno(1,2,3-cd)pyrene	276	10.209	10.215	(1.134)	27496	0.43529	38.6744(M)
25 Dibenzo(a,h)anthracene	278	10.233	10.233	(1.137)	13455	0.21777	19.3480(M)
26 Benzo(g,h,i)perylene	276	10.580	10.580	(1.175)	42800	0.64772	57.5482

QC Flag Legend

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

Data File: 1CB27023.D

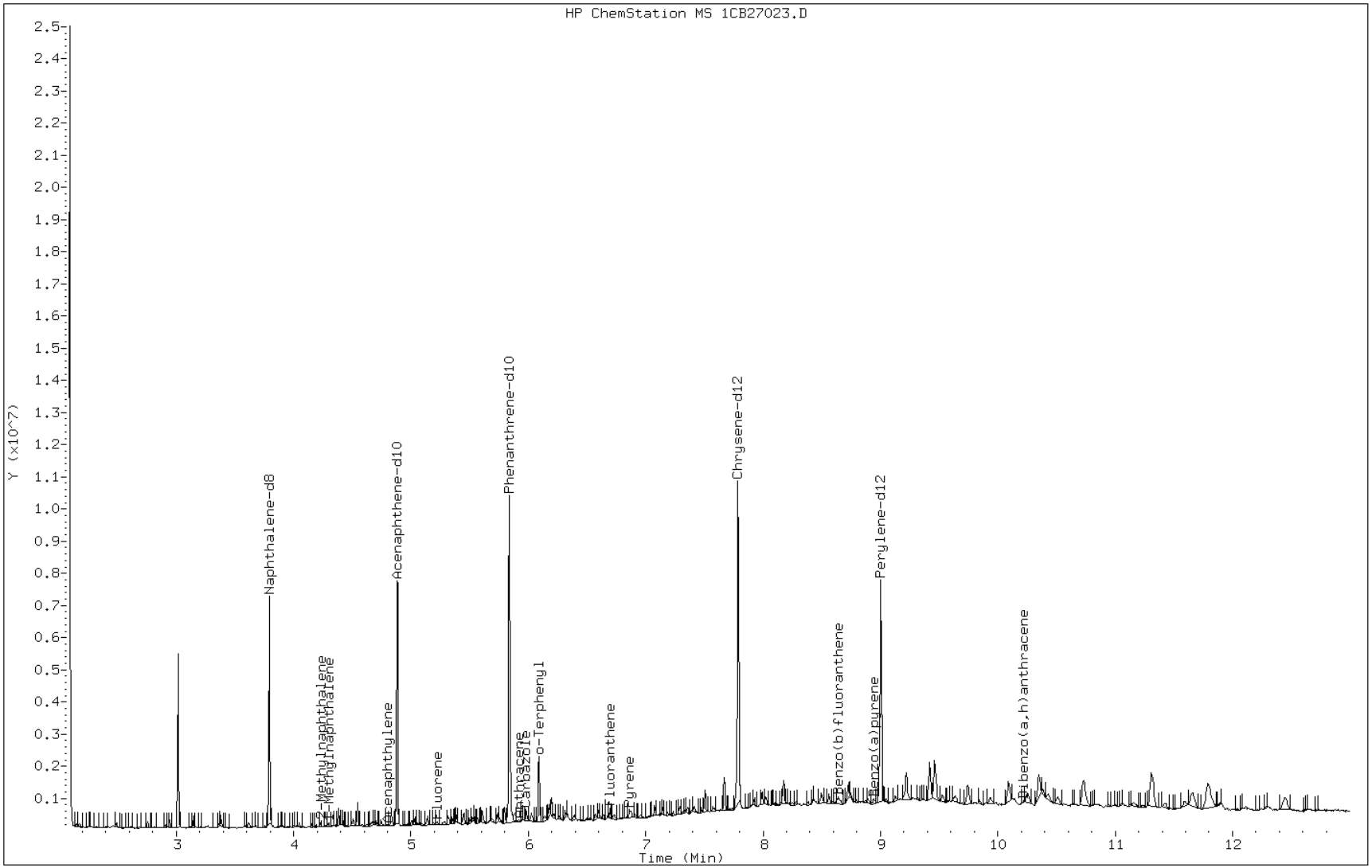
Date: 27-FEB-2013 18:42

Client ID: FM0161KKKK-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-41-a

Operator: SCC



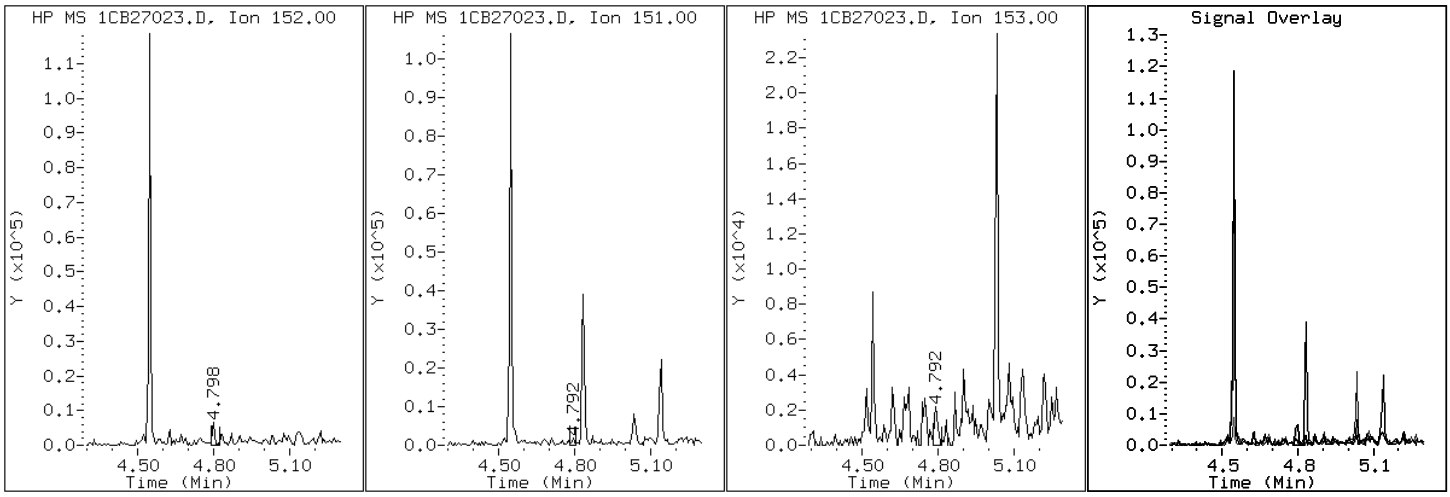
Data File: 1CB27023.D

Date: 27-FEB-2013 18:42

Client ID: FM0161KKKK-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-41-a Operator: SCC

5 Acenaphthylene



Data File: 1CB27023.D

Date: 27-FEB-2013 18:42

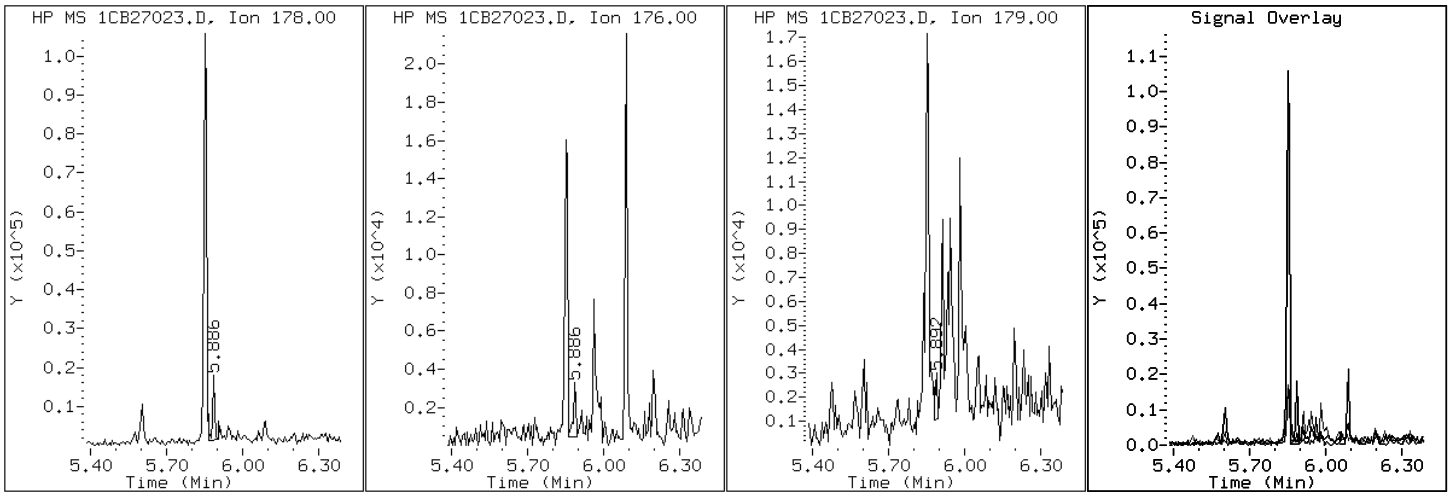
Client ID: FM0161KKKK-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-41-a

Operator: SCC

12 Anthracene



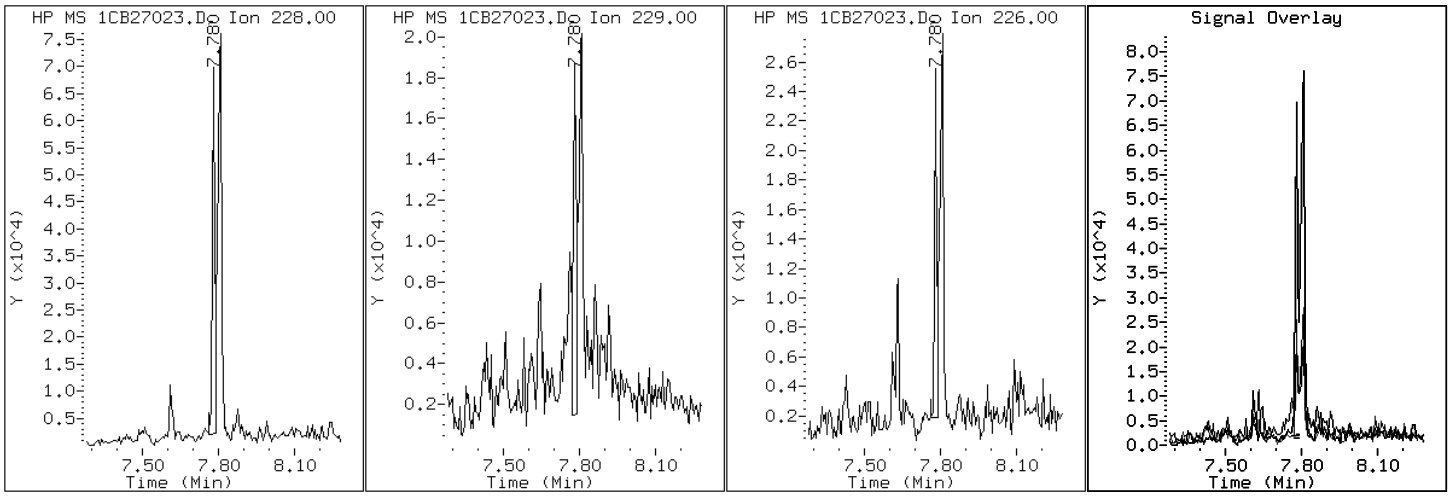
Data File: 1CB27023.D

Date: 27-FEB-2013 18:42

Client ID: FM0161KKKK-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-41-a Operator: SCC

17 Benzo(a)anthracene



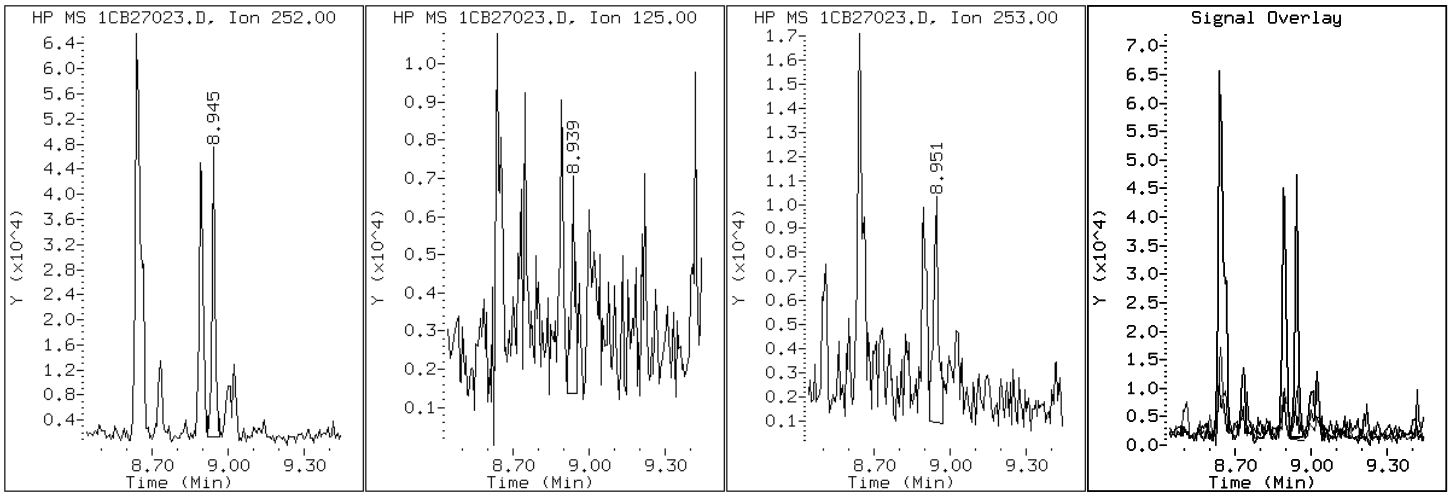
Data File: 1CB27023.D

Date: 27-FEB-2013 18:42

Client ID: FM0161KKKK-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-41-a Operator: SCC

22 Benzo(a)pyrene



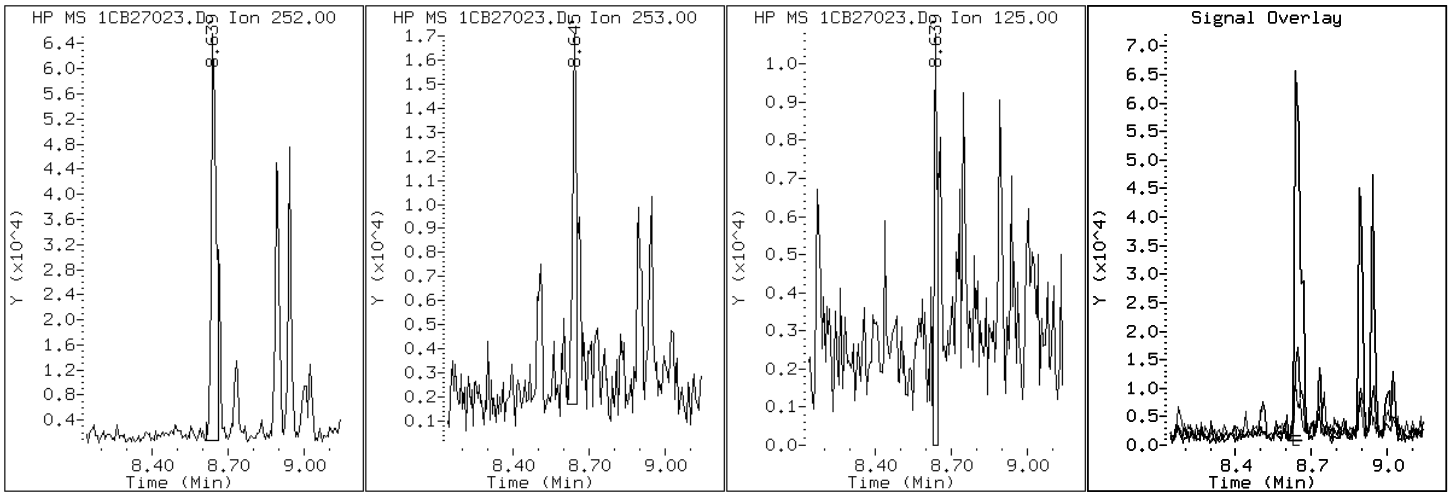
Data File: 1CB27023.D

Date: 27-FEB-2013 18:42

Client ID: FM0161KKKK-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-41-a Operator: SCC

20 Benzo(b)fluoranthene



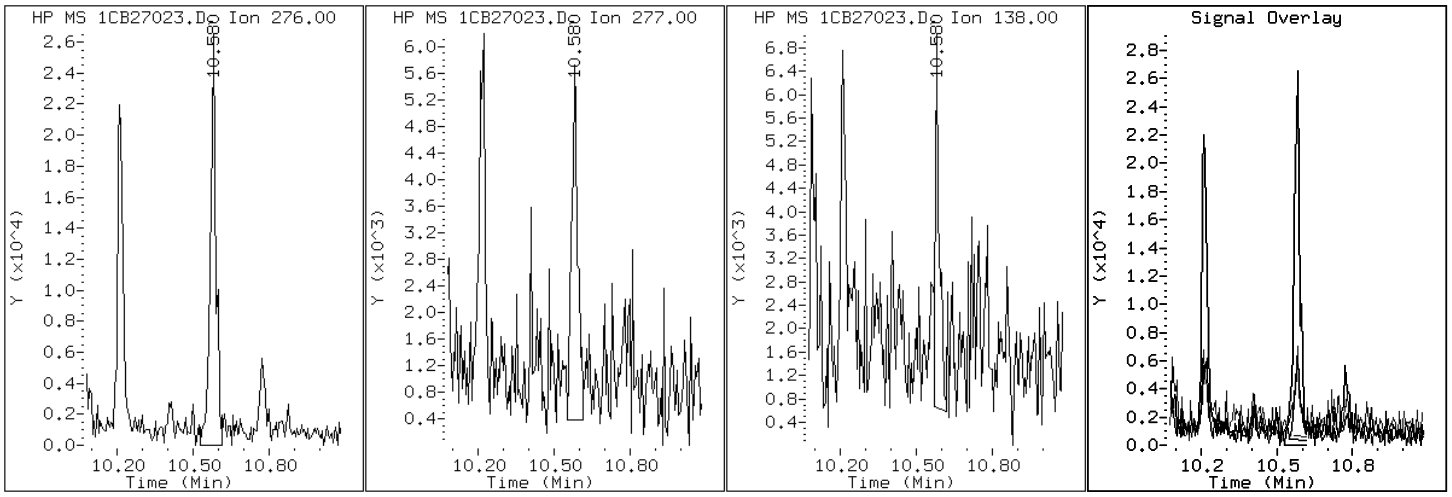
Data File: 1CB27023.D

Date: 27-FEB-2013 18:42

Client ID: FM0161KKKK-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-41-a Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CB27023.D

Date: 27-FEB-2013 18:42

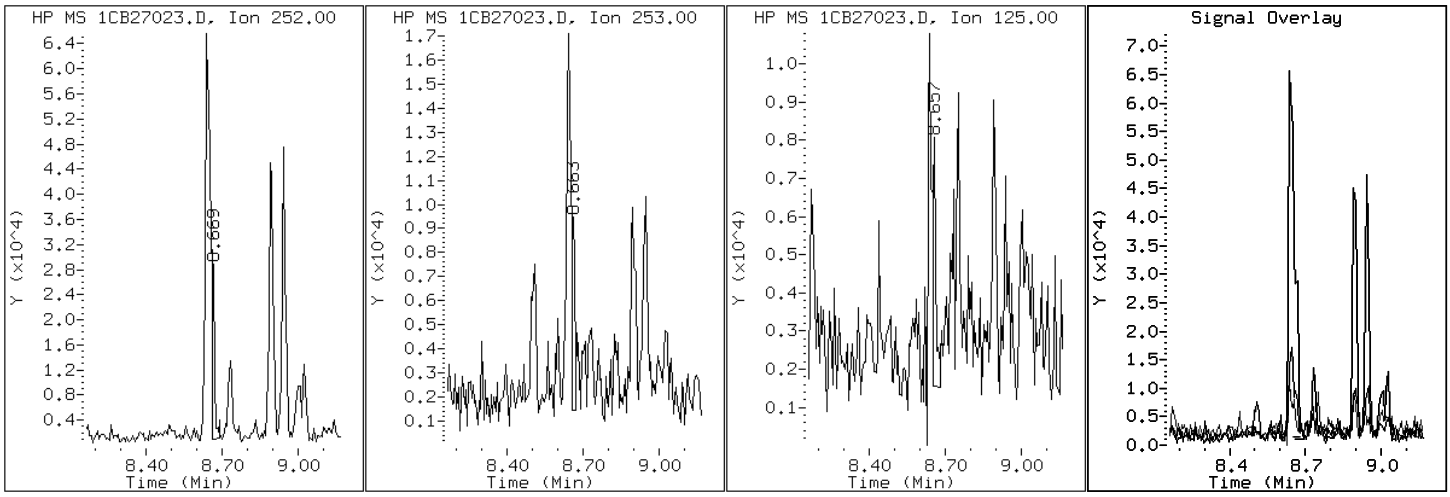
Client ID: FM0161KKKK-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-41-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CB27023.D

Date: 27-FEB-2013 18:42

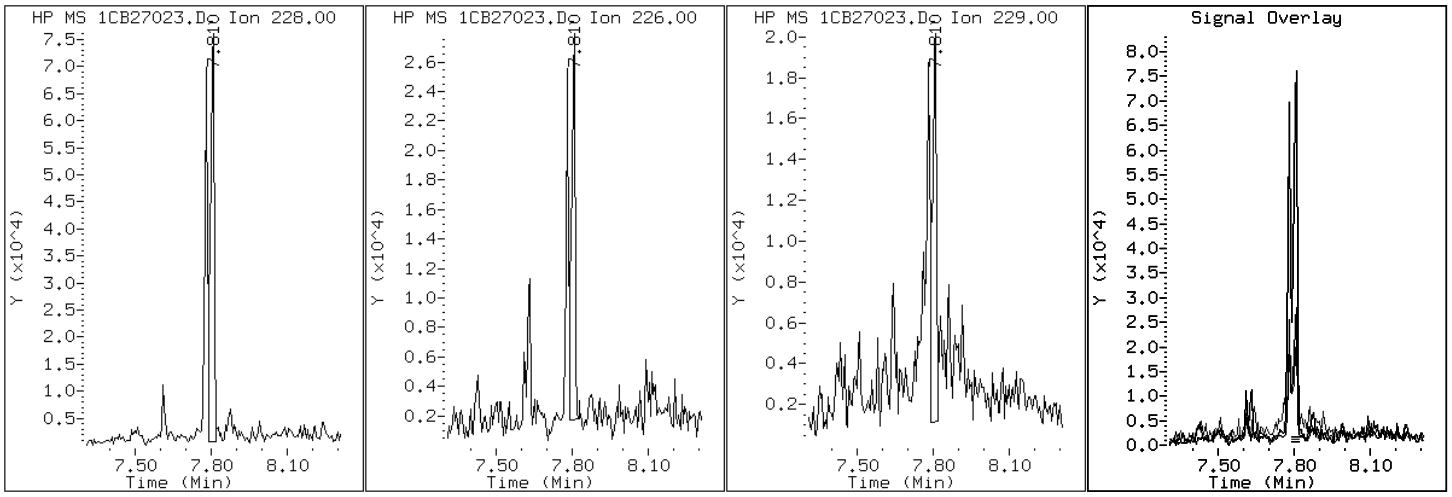
Client ID: FM0161KKKK-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-41-a

Operator: SCC

19 Chrysene



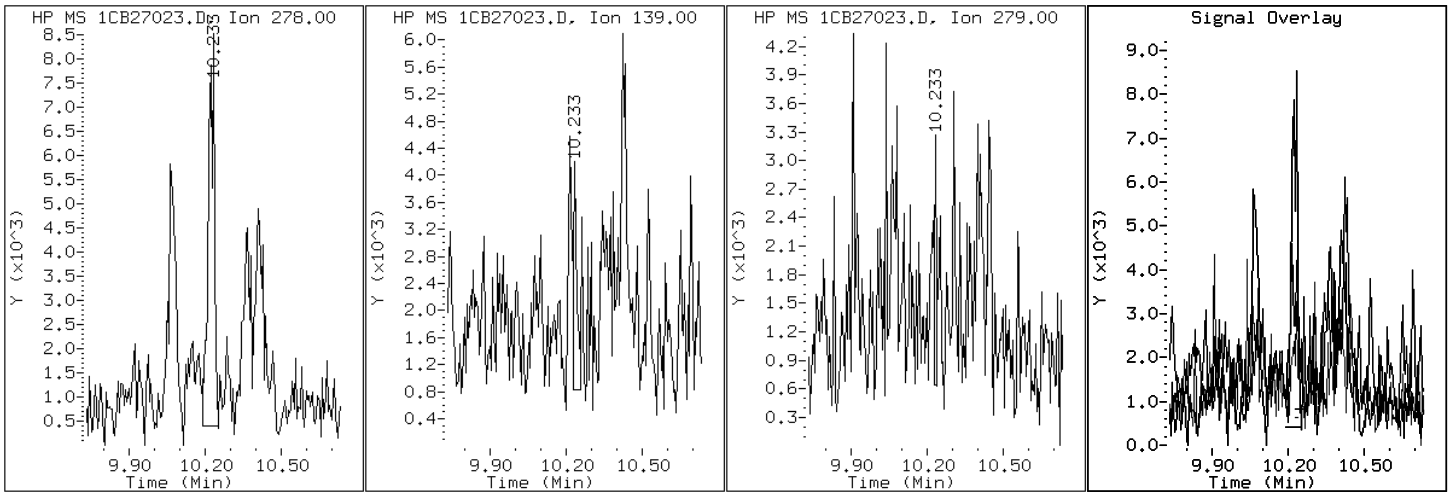
Data File: 1CB27023.D

Date: 27-FEB-2013 18:42

Client ID: FM0161KKKK-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-41-a Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CB27023.D

Date: 27-FEB-2013 18:42

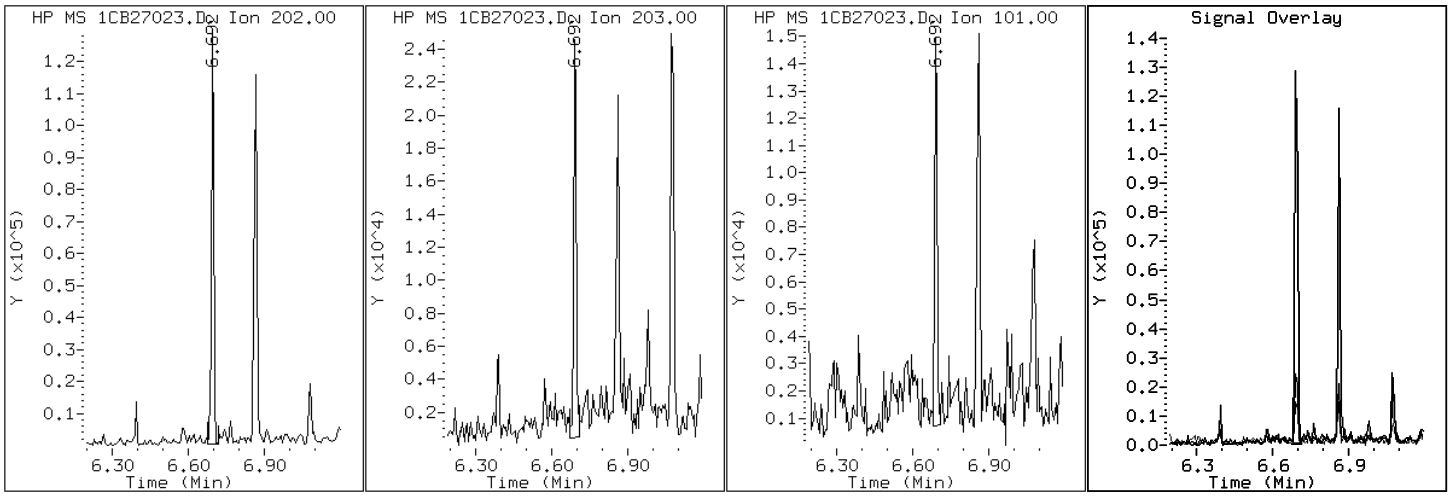
Client ID: FM0161KKKK-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-41-a

Operator: SCC

15 Fluoranthene



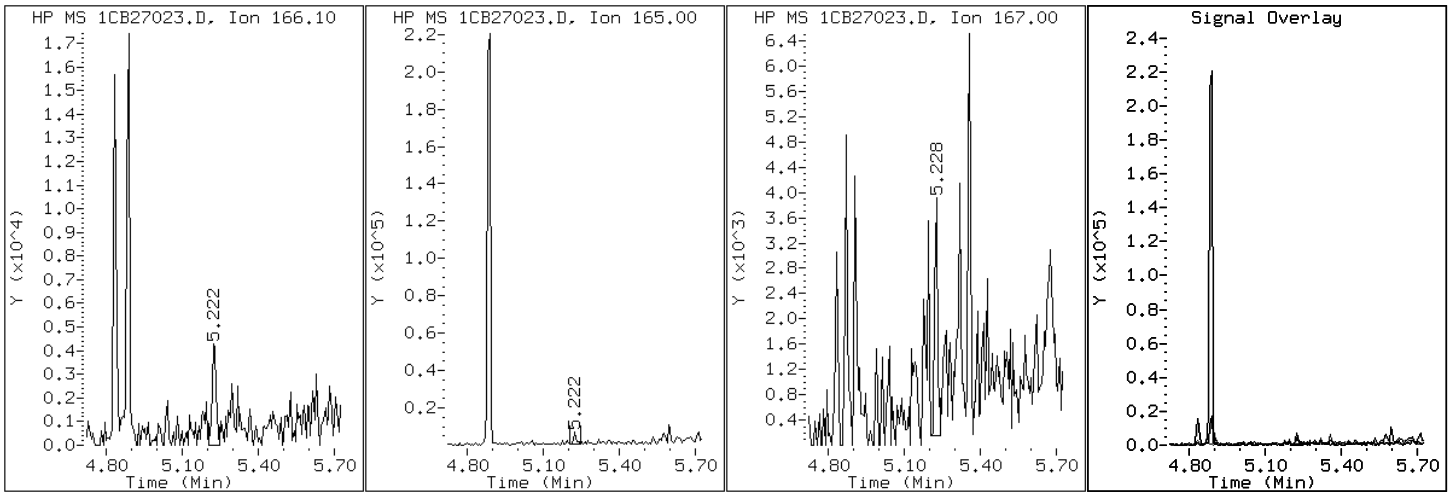
Data File: 1CB27023.D

Date: 27-FEB-2013 18:42

Client ID: FM0161KKKK-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-41-a Operator: SCC

9 Fluorene



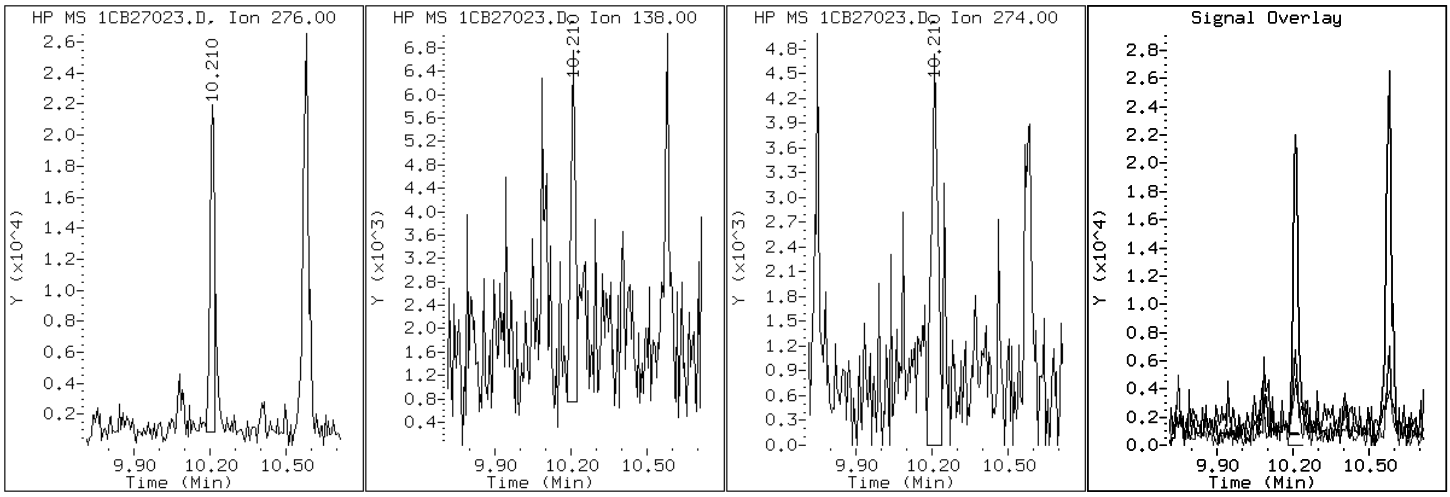
Data File: 1CB27023.D

Date: 27-FEB-2013 18:42

Client ID: FM0161KKKK-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-41-a Operator: SCC

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



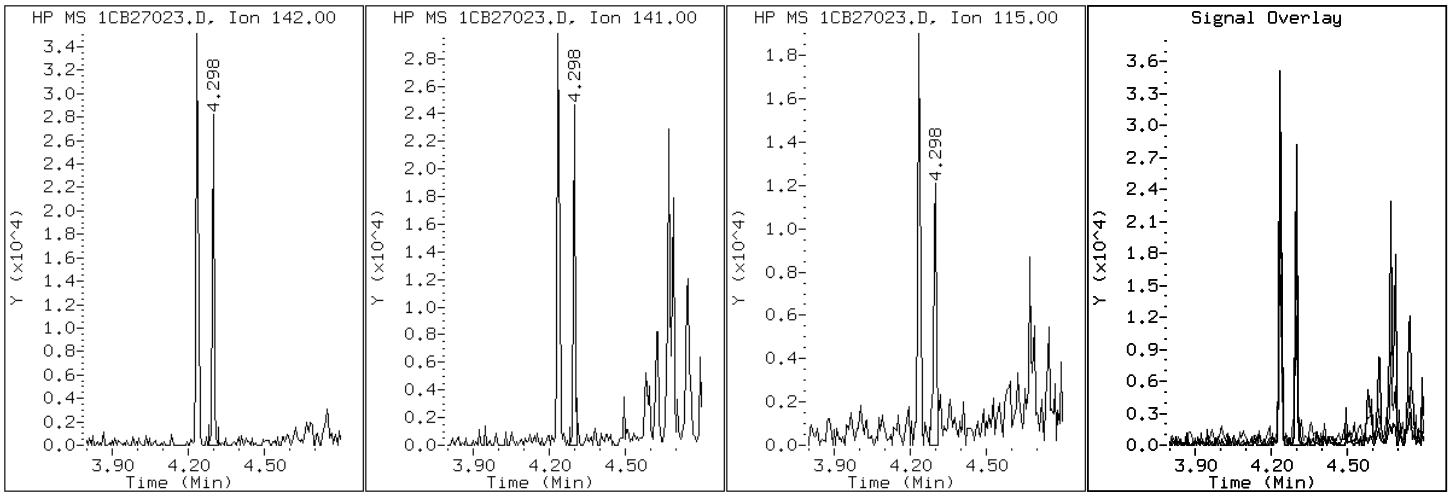
Data File: 1CB27023.D

Date: 27-FEB-2013 18:42

Client ID: FM0161KKKK-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-41-a Operator: SCC

4 1-Methylnaphthalene



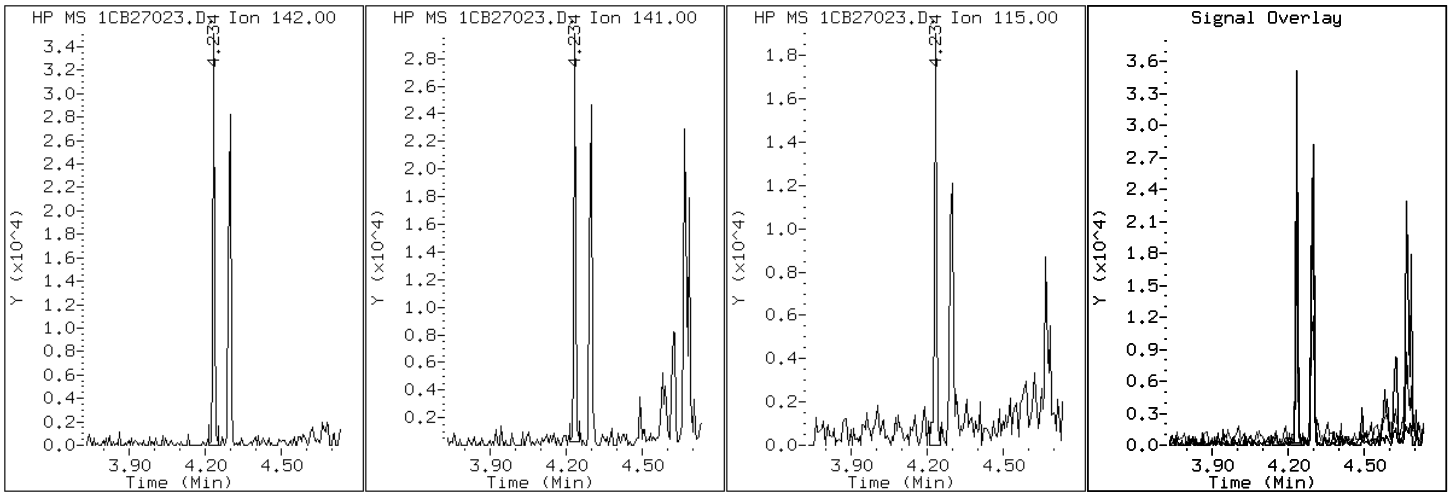
Data File: 1CB27023.D

Date: 27-FEB-2013 18:42

Client ID: FM0161KKKK-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-41-a Operator: SCC

3 2-Methylnaphthalene



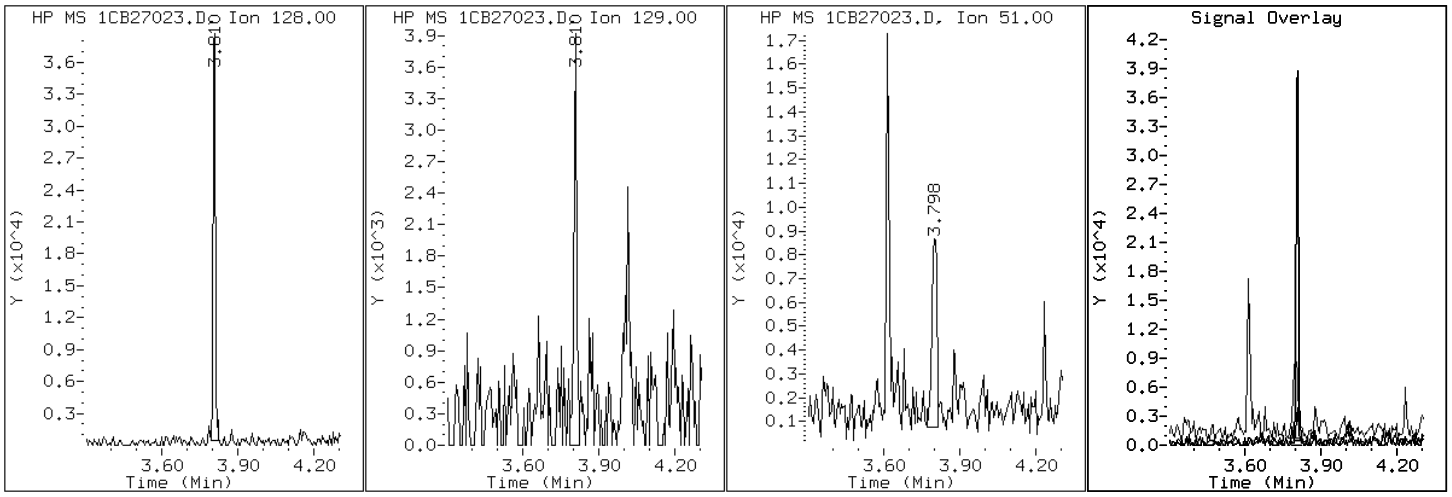
Data File: 1CB27023.D

Date: 27-FEB-2013 18:42

Client ID: FM0161KKKK-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-41-a Operator: SCC

2 Naphthalene



Data File: 1CB27023.D

Date: 27-FEB-2013 18:42

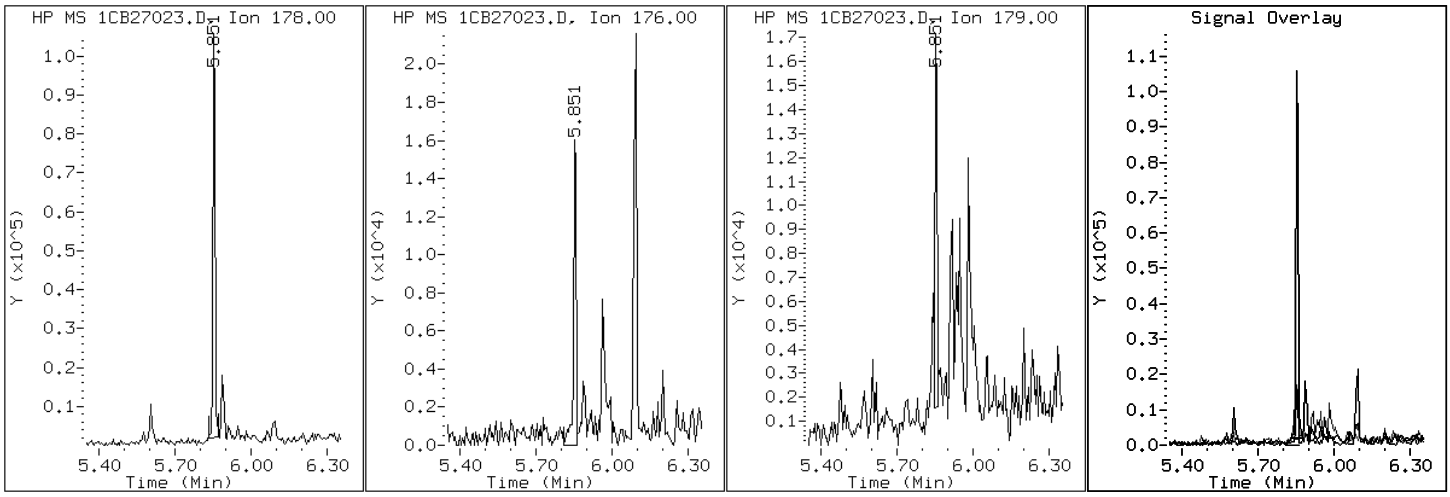
Client ID: FM0161KKKK-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-41-a

Operator: SCC

11 Phenanthrene



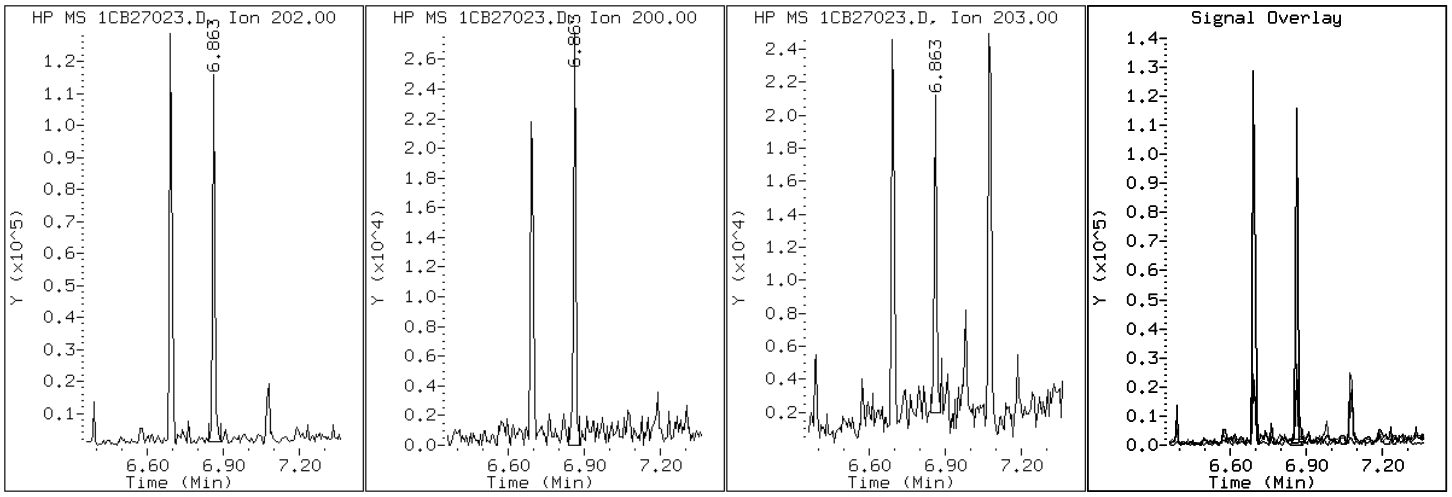
Data File: 1CB27023.D

Date: 27-FEB-2013 18:42

Client ID: FM0161KKKK-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-41-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB27023.D
Inj. Date and Time: 27-FEB-2013 18:42
Instrument ID: BSMC5973.i
Client ID: FM0161KKKK-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/01/2013

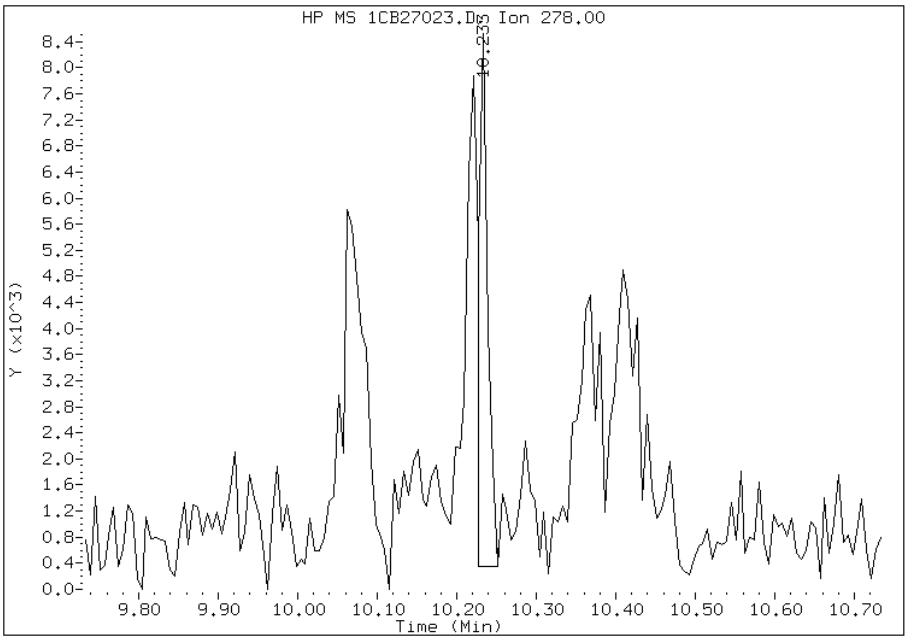
Processing Integration Results

RT: 10.23

Response: 6456

Amount: 0

Conc: 9



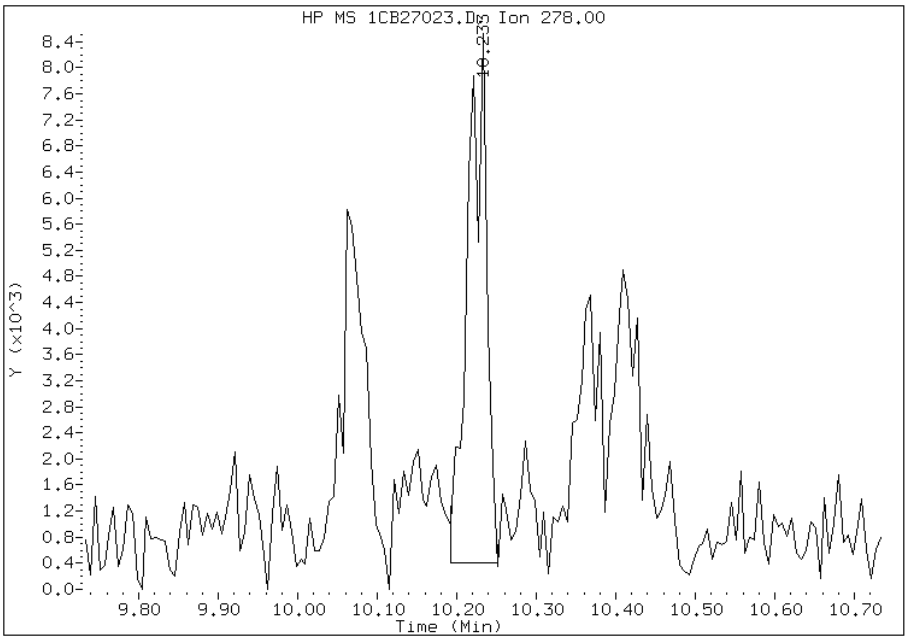
Manual Integration Results

RT: 10.23

Response: 13455

Amount: 0

Conc: 19



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:31
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB27023.D
Inj. Date and Time: 27-FEB-2013 18:42
Instrument ID: BSMC5973.i
Client ID: FM0161KKKK-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/01/2013

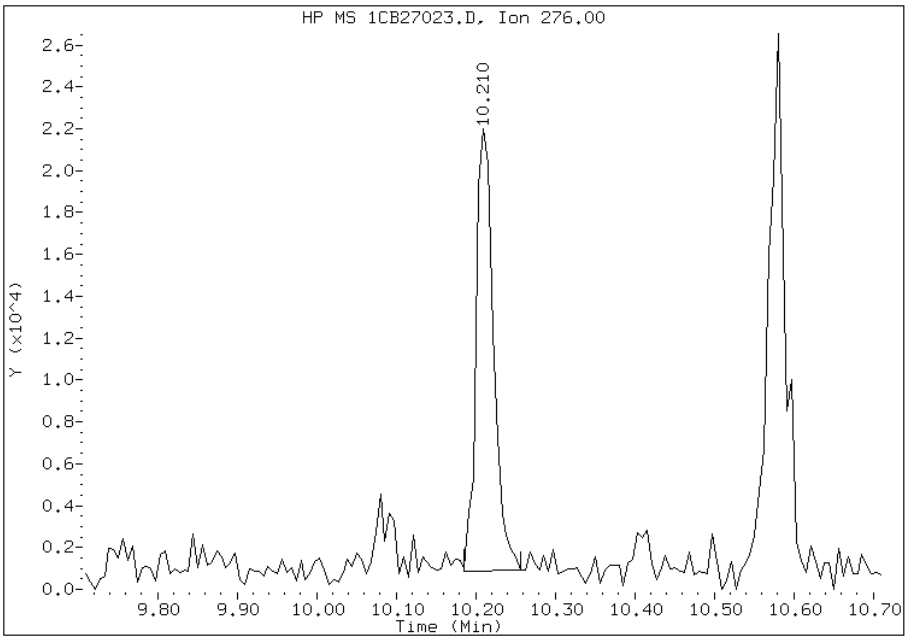
Processing Integration Results

RT: 10.21

Response: 31883

Amount: 1

Conc: 45



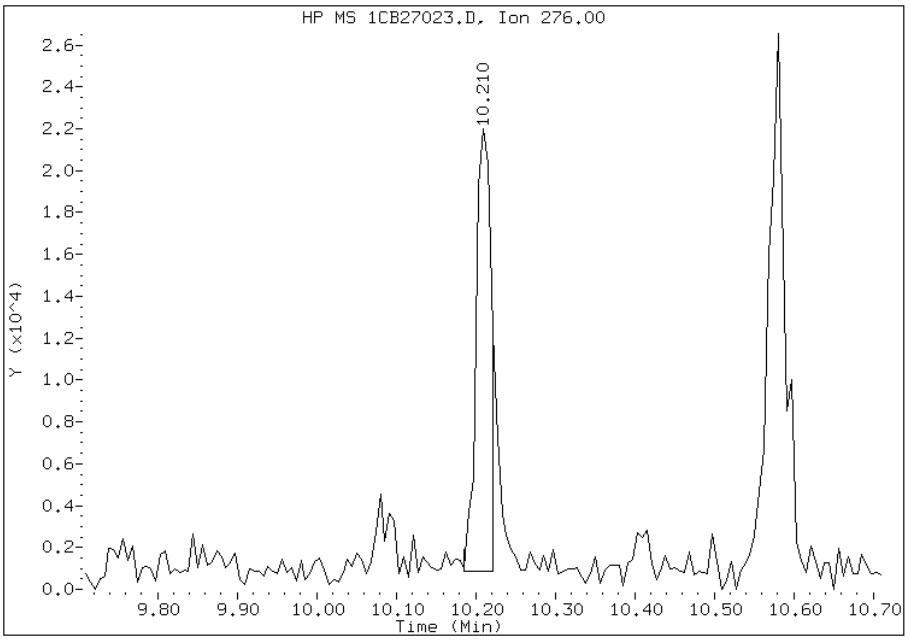
Manual Integration Results

RT: 10.21

Response: 27496

Amount: 0

Conc: 39



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:32
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87655-3

SDG No.: 68087655-3

Client Sample ID: FM0161LLLL-CS | Lab Sample ID: 680-87655-42

Matrix: Solid | Lab File ID: 1CB27026.D

Analysis Method: 8270C LL | Date Collected: 02/19/2013 13:06

Extract. Method: 3546 | Date Extracted: 02/25/2013 14:06

Sample wt/vol: 15.07(g) | Date Analyzed: 02/27/2013 19:37

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

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

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

Analysis Batch No.: 134903 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	12	J	53	6.6
120-12-7	Anthracene	12		11	5.5
56-55-3	Benzo[a]anthracene	78		11	5.1
50-32-8	Benzo[a]pyrene	75		14	6.8
205-99-2	Benzo[b]fluoranthene	140		16	8.0
191-24-2	Benzo[g,h,i]perylene	58		26	5.8
207-08-9	Benzo[k]fluoranthene	39		11	4.7
218-01-9	Chrysene	110		12	5.9
53-70-3	Dibenz(a,h)anthracene	18	J	26	5.4
206-44-0	Fluoranthene	120		26	5.3
86-73-7	Fluorene	11	J	26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	52		26	9.3
90-12-0	1-Methylnaphthalene	45	J	53	5.8
91-57-6	2-Methylnaphthalene	68		53	9.3
91-20-3	Naphthalene	67		53	5.8
85-01-8	Phenanthrene	88		11	5.1
129-00-0	Pyrene	110		26	4.9

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\BSMC5973.i\1C022713.b\1CB27026.D
Lab Smp Id: 680-87655-A-42-A Client Smp ID: FM0161LLLL-CS
Inj Date : 27-FEB-2013 19:37
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87655-a-42-a
Misc Info : 680-87655-A-42-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\a-bFASTPAHi-m.m
Meth Date : 27-Feb-2013 16:31 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

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	15.070	Weight Extracted
M	24.380	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.792	3.792	(1.000)	1662995	40.0000	
* 6 Acenaphthene-d10	164	4.886	4.880	(1.000)	1319801	40.0000	
* 10 Phenanthrene-d10	188	5.839	5.839	(1.000)	2505382	40.0000	
$ 14 o-Terphenyl	230	6.092	6.092	(1.043)	262286	6.93383	608.4491
* 18 Chrysene-d12	240	7.792	7.792	(1.000)	2684223	40.0000	
* 23 Perylene-d12	264	9.003	9.004	(1.000)	2466631	40.0000	
2 Naphthalene	128	3.810	3.804	(1.005)	33065	0.76373	67.0179
3 2-Methylnaphthalene	142	4.233	4.233	(1.116)	22279	0.77146	67.6961
4 1-Methylnaphthalene	142	4.298	4.298	(1.133)	13451	0.51141	44.8764
5 Acenaphthylene	152	4.798	4.798	(0.982)	7154	0.13445	11.7979
9 Fluorene	166	5.221	5.221	(1.069)	5150	0.12313	10.8044(Q)
11 Phenanthrene	178	5.851	5.851	(1.002)	72508	1.00088	87.8276
12 Anthracene	178	5.886	5.886	(1.008)	9690	0.13677	12.0014
13 Carbazole	167	5.998	5.992	(1.027)	10378	0.16478	14.4595(Q)
15 Fluoranthene	202	6.692	6.698	(1.146)	109249	1.37705	120.8371

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.862	6.863	(0.881)	91607	1.26994	111.4386
17 Benzo(a)anthracene	228	7.780	7.780	(0.998)	68945	0.88994	78.0925
19 Chrysene	228	7.809	7.810	(1.002)	95611	1.23321	108.2153
20 Benzo(b)fluoranthene	252	8.645	8.645	(0.960)	105334	1.63404	143.3884(M)
21 Benzo(k)fluoranthene	252	8.662	8.668	(0.962)	29752	0.44991	39.4802(QM)
22 Benzo(a)pyrene	252	8.945	8.945	(0.993)	53169	0.84916	74.5140
24 Indeno(1,2,3-cd)pyrene	276	10.215	10.215	(1.135)	34604	0.58748	51.5522(M)
25 Dibenzo(a,h)anthracene	278	10.227	10.233	(1.136)	11636	0.20196	17.7224
26 Benzo(g,h,i)perylene	276	10.586	10.580	(1.176)	40462	0.65668	57.6237

QC Flag Legend

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

Data File: 1CB27026.D

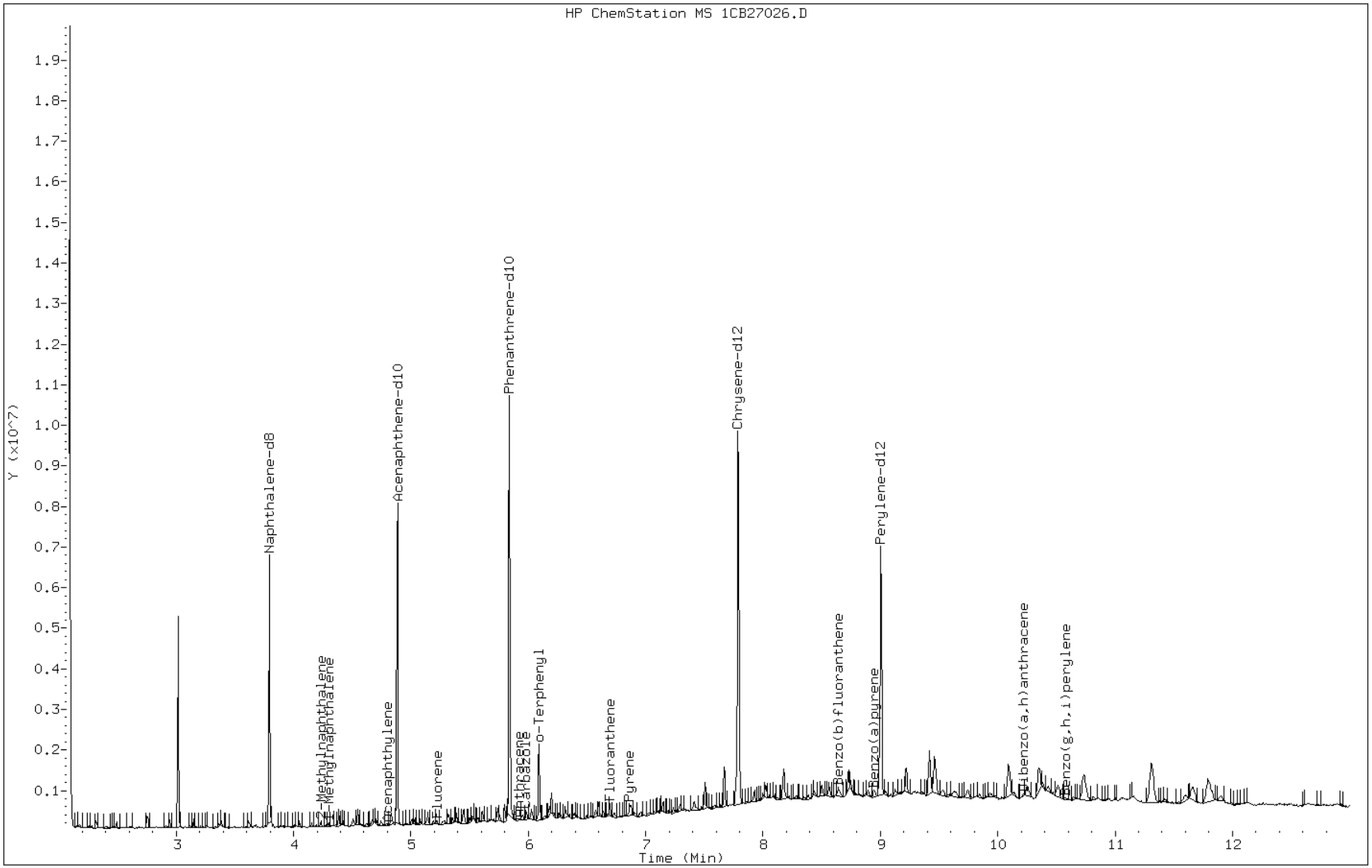
Date: 27-FEB-2013 19:37

Client ID: FM0161LLLL-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-42-a

Operator: SCC



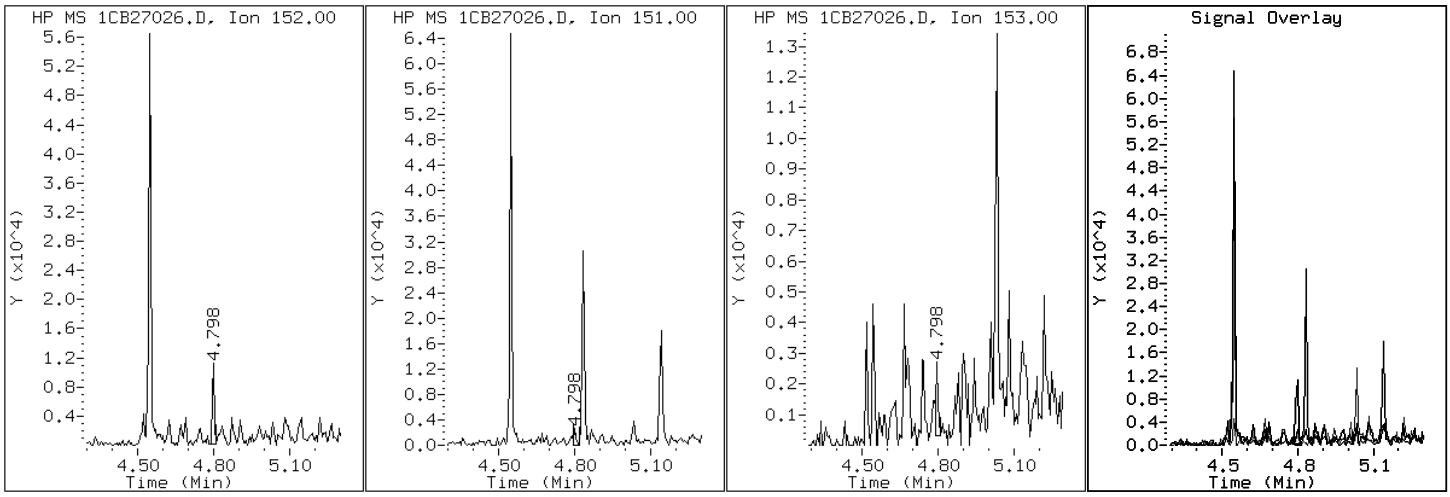
Data File: 1CB27026.D

Date: 27-FEB-2013 19:37

Client ID: FM0161LLLL-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-42-a Operator: SCC

5 Acenaphthylene



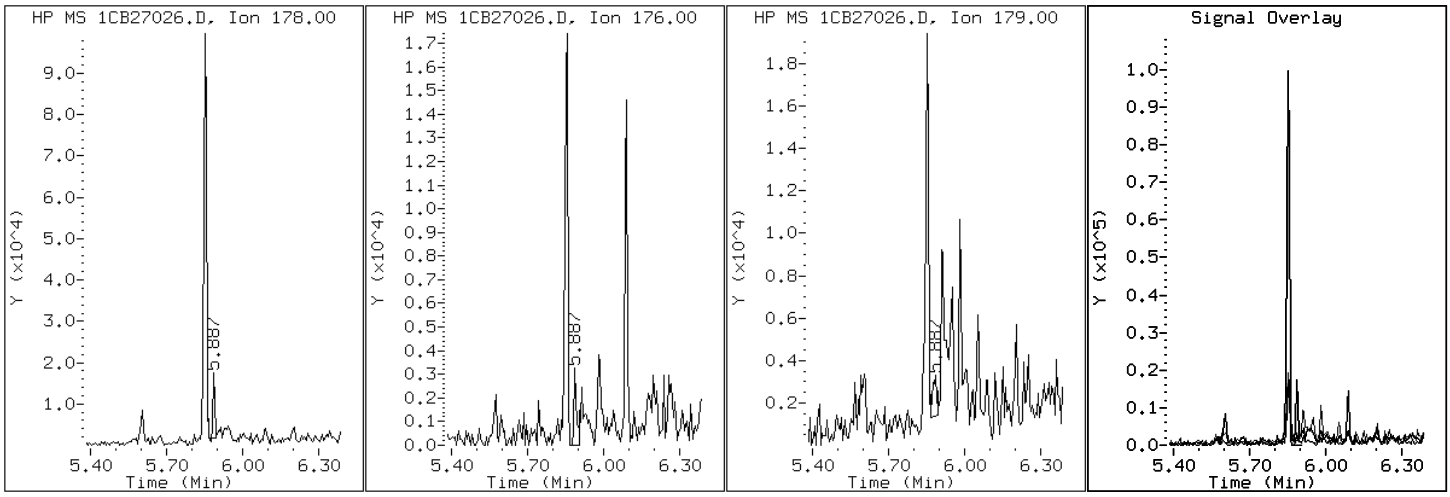
Data File: 1CB27026.D

Date: 27-FEB-2013 19:37

Client ID: FM0161LLLL-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-42-a Operator: SCC

12 Anthracene



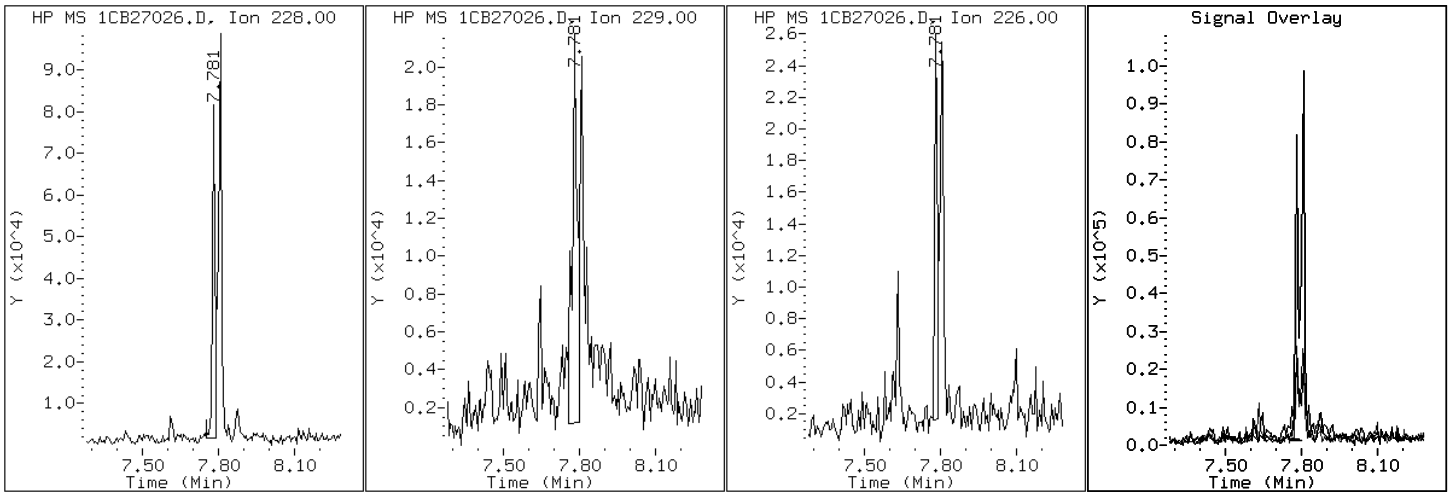
Data File: 1CB27026.D

Date: 27-FEB-2013 19:37

Client ID: FM0161LLLL-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-42-a Operator: SCC

17 Benzo(a)anthracene



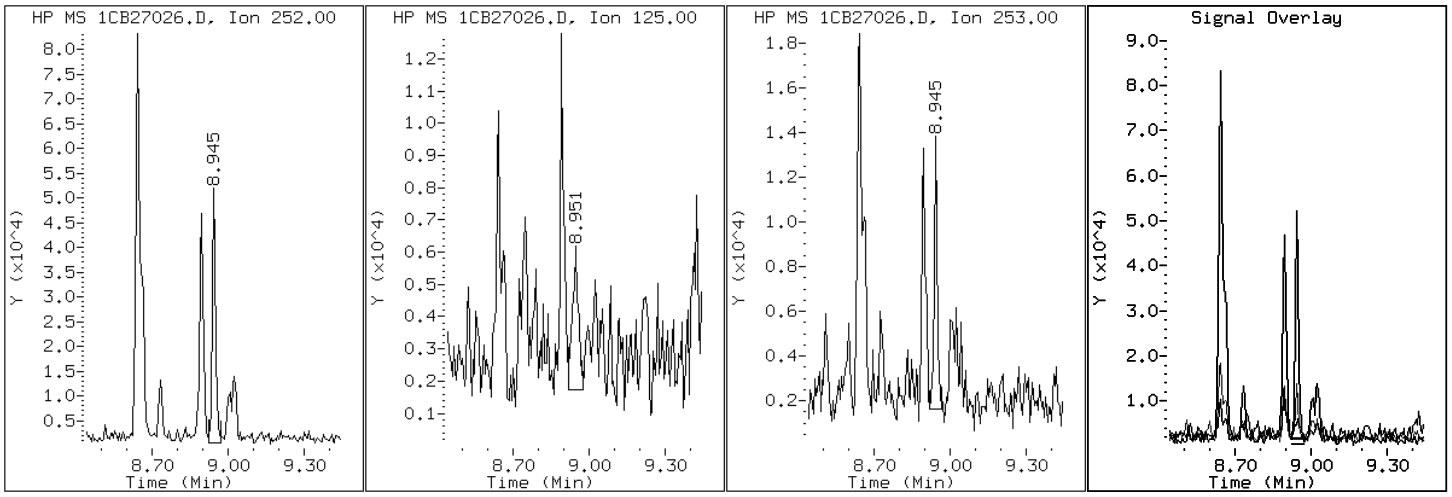
Data File: 1CB27026.D

Date: 27-FEB-2013 19:37

Client ID: FM0161LLLL-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-42-a Operator: SCC

22 Benzo(a)pyrene



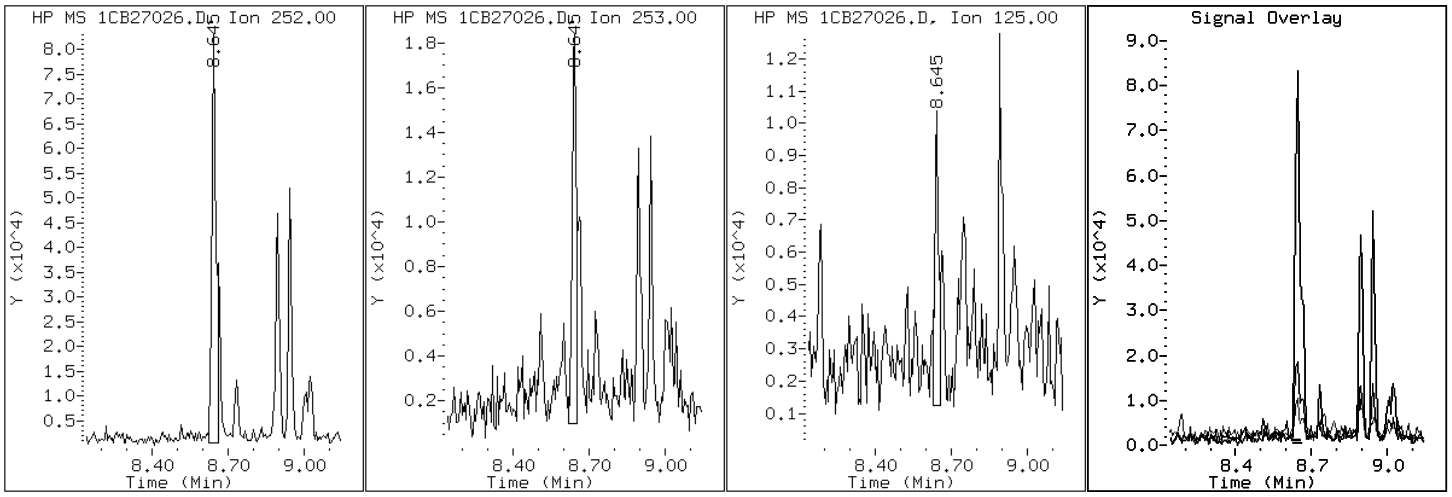
Data File: 1CB27026.D

Date: 27-FEB-2013 19:37

Client ID: FM0161LLLL-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-42-a Operator: SCC

20 Benzo(b)fluoranthene



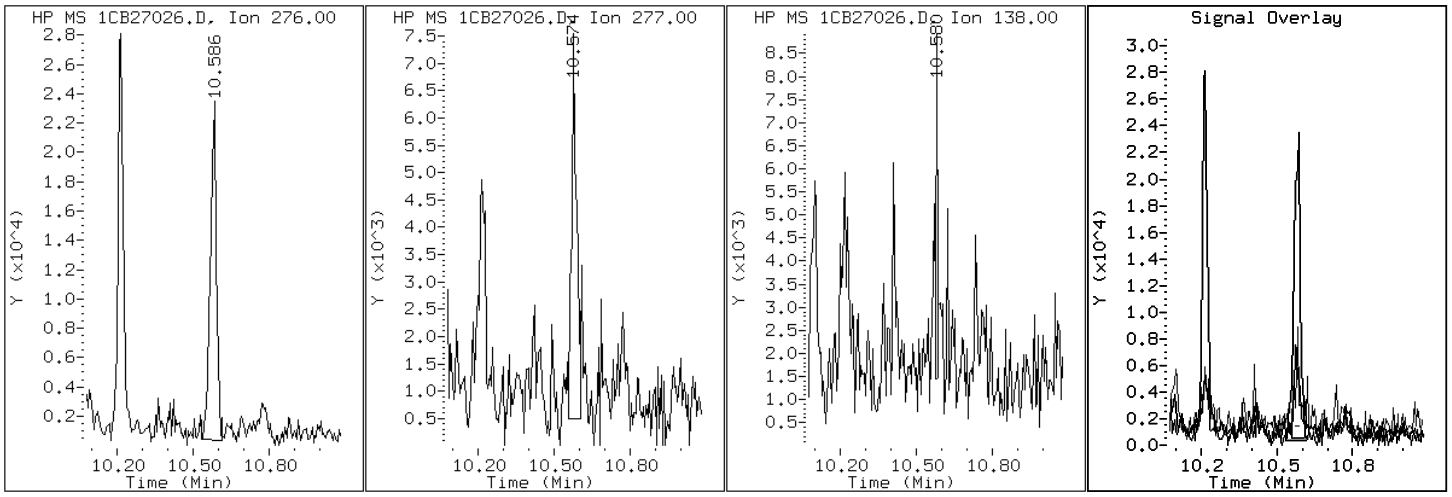
Data File: 1CB27026.D

Date: 27-FEB-2013 19:37

Client ID: FM0161LLLL-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-42-a Operator: SCC

26 Benzo(g,h,i)perylene



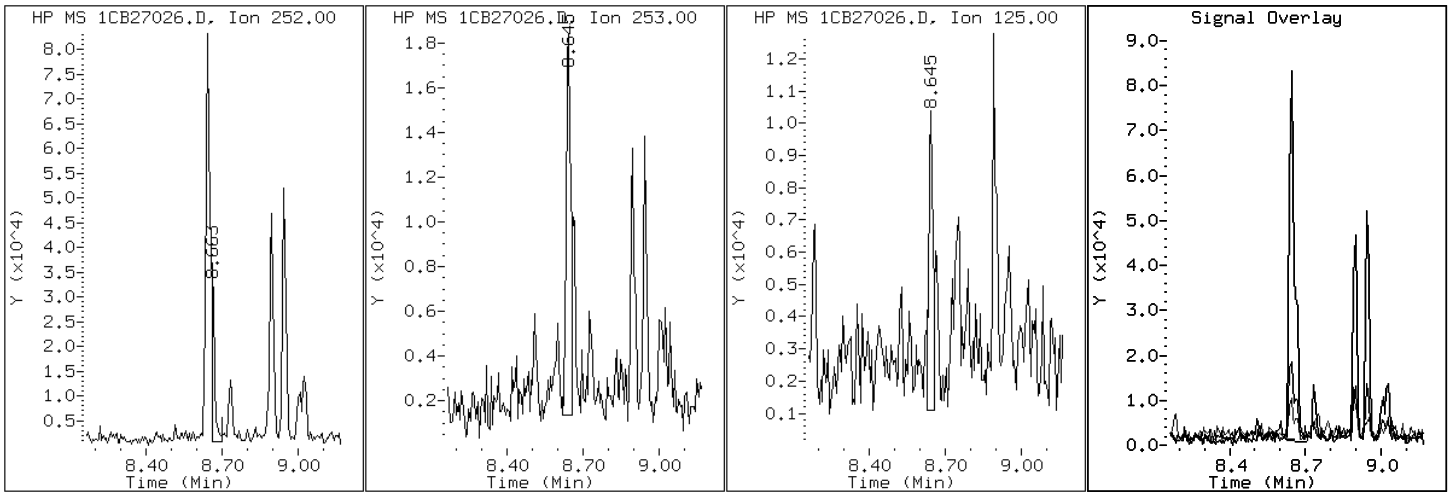
Data File: 1CB27026.D

Date: 27-FEB-2013 19:37

Client ID: FM0161LLLL-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-42-a Operator: SCC

21 Benzo(k)fluoranthene



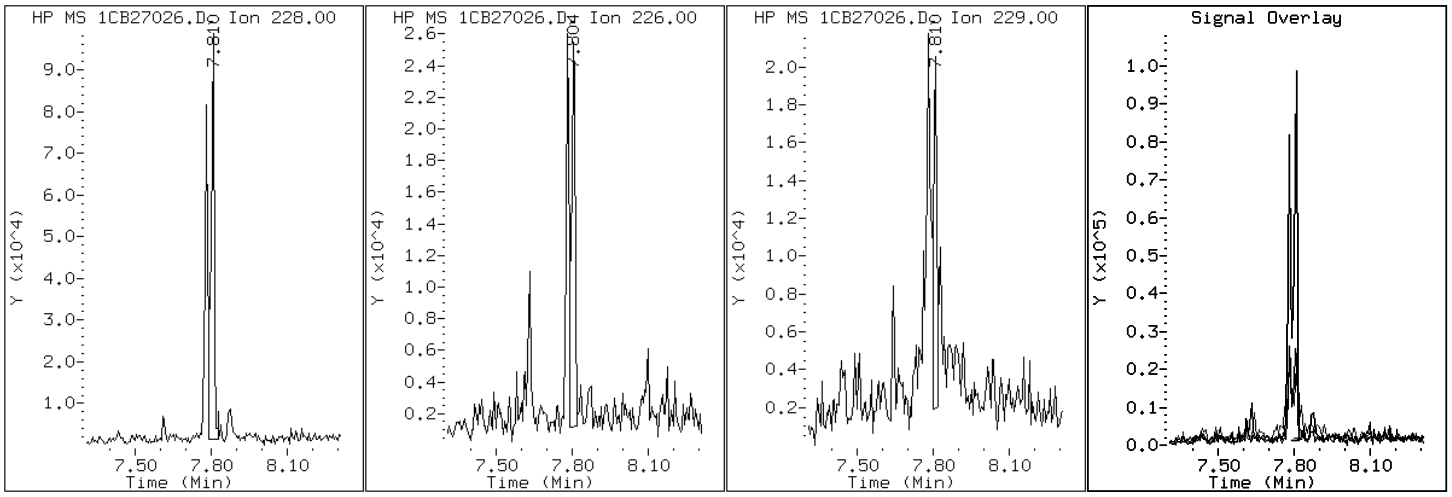
Data File: 1CB27026.D

Date: 27-FEB-2013 19:37

Client ID: FM0161LLLL-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-42-a Operator: SCC

19 Chrysene



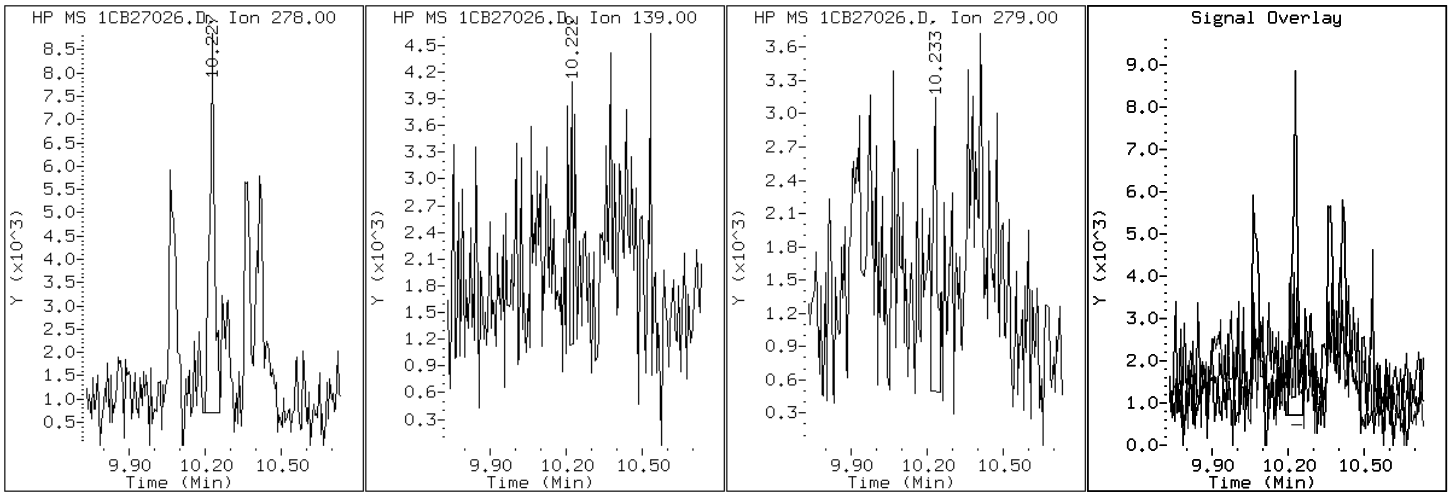
Data File: 1CB27026.D

Date: 27-FEB-2013 19:37

Client ID: FM0161LLLL-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-42-a Operator: SCC

25 Dibenzo(a,h)anthracene



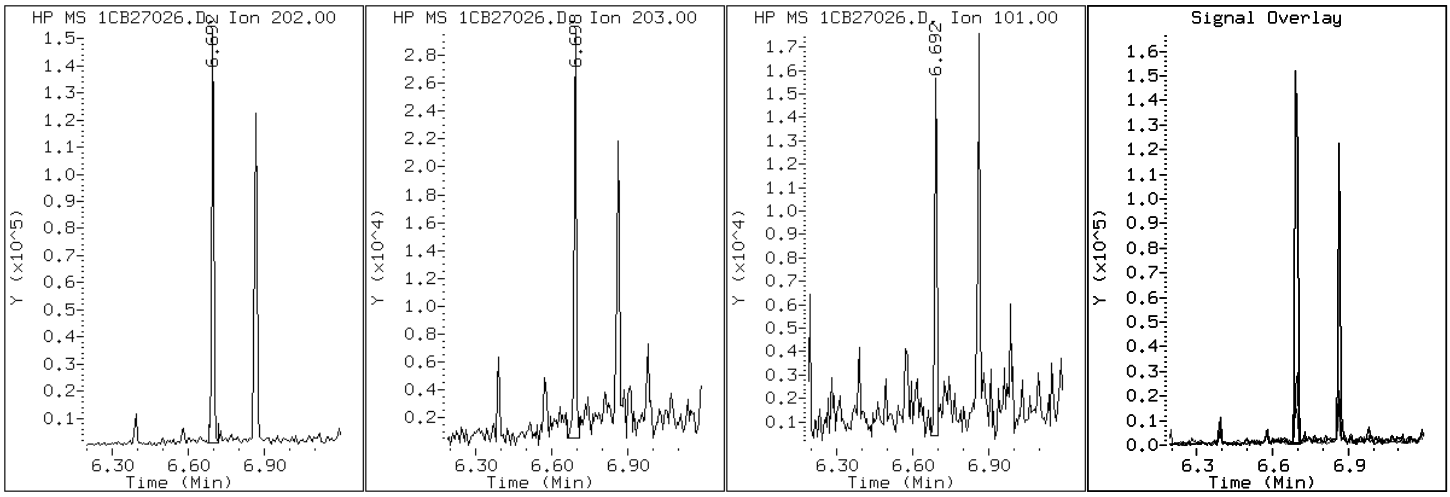
Data File: 1CB27026.D

Date: 27-FEB-2013 19:37

Client ID: FM0161LLLL-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-42-a Operator: SCC

15 Fluoranthene



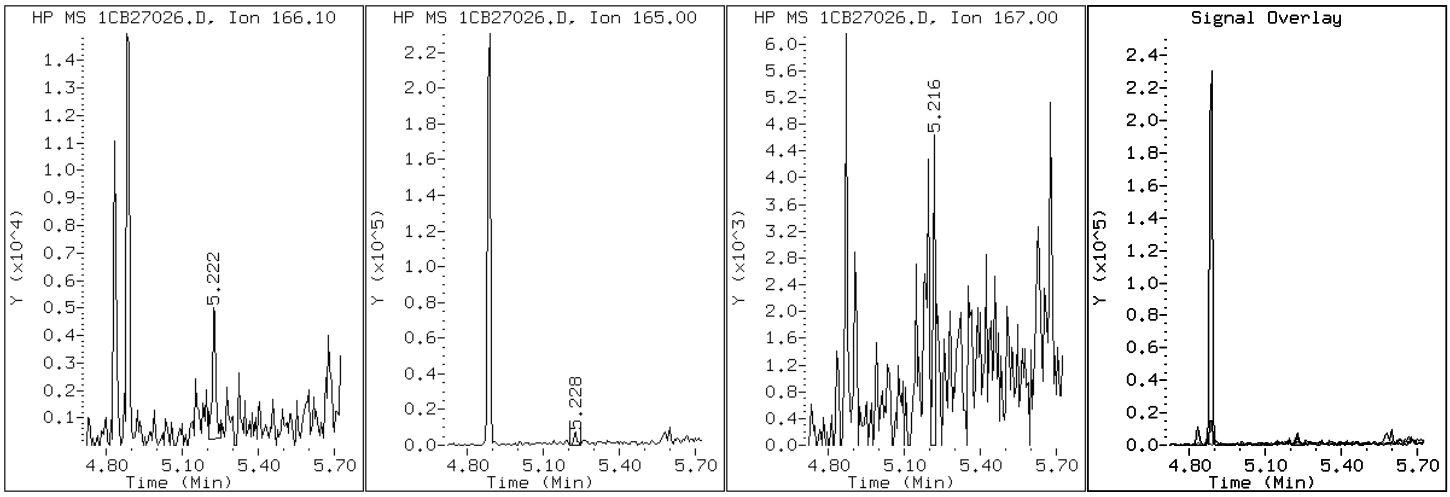
Data File: 1CB27026.D

Date: 27-FEB-2013 19:37

Client ID: FM0161LLLL-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-42-a Operator: SCC

9 Fluorene



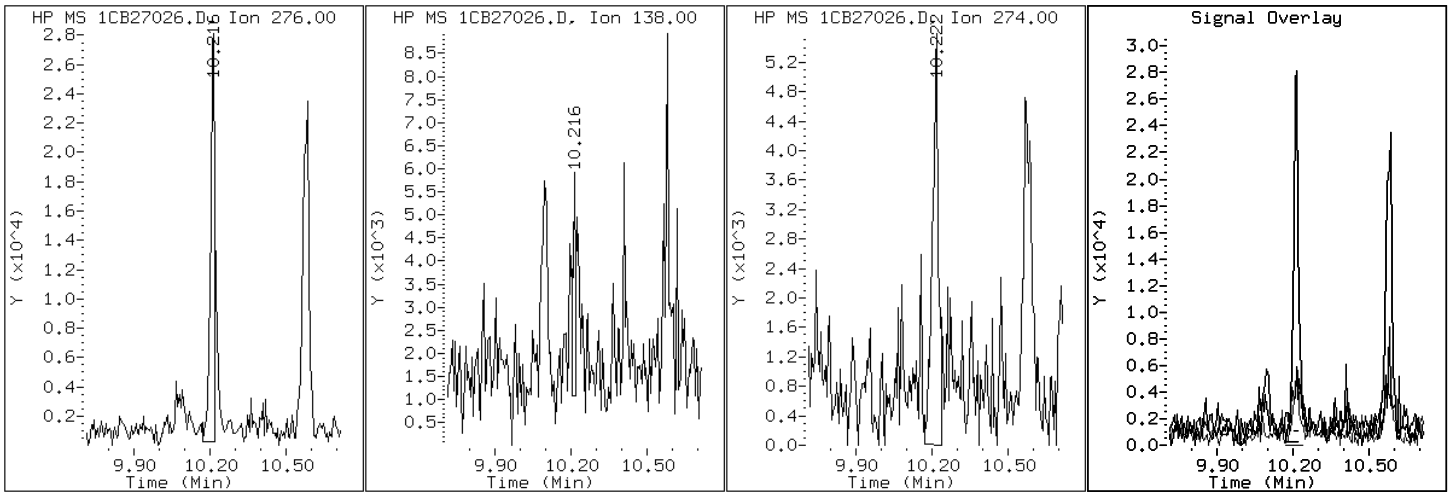
Data File: 1CB27026.D

Date: 27-FEB-2013 19:37

Client ID: FM0161LLLL-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-42-a Operator: SCC

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



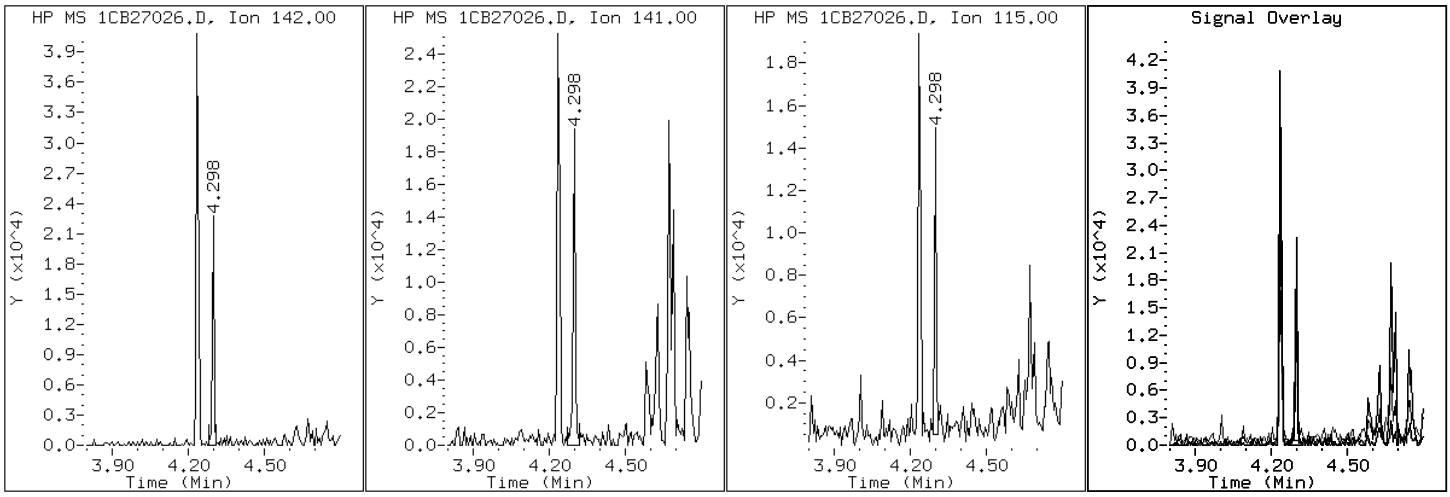
Data File: 1CB27026.D

Date: 27-FEB-2013 19:37

Client ID: FM0161LLLL-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-42-a Operator: SCC

4 1-Methylnaphthalene



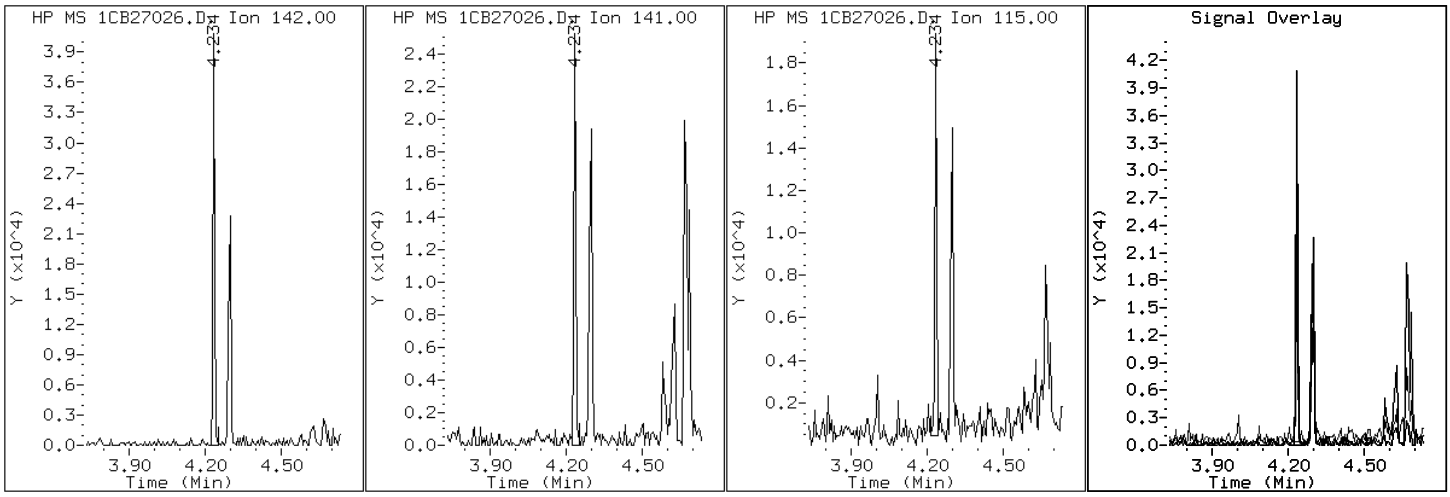
Data File: 1CB27026.D

Date: 27-FEB-2013 19:37

Client ID: FM0161LLLL-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-42-a Operator: SCC

3 2-Methylnaphthalene



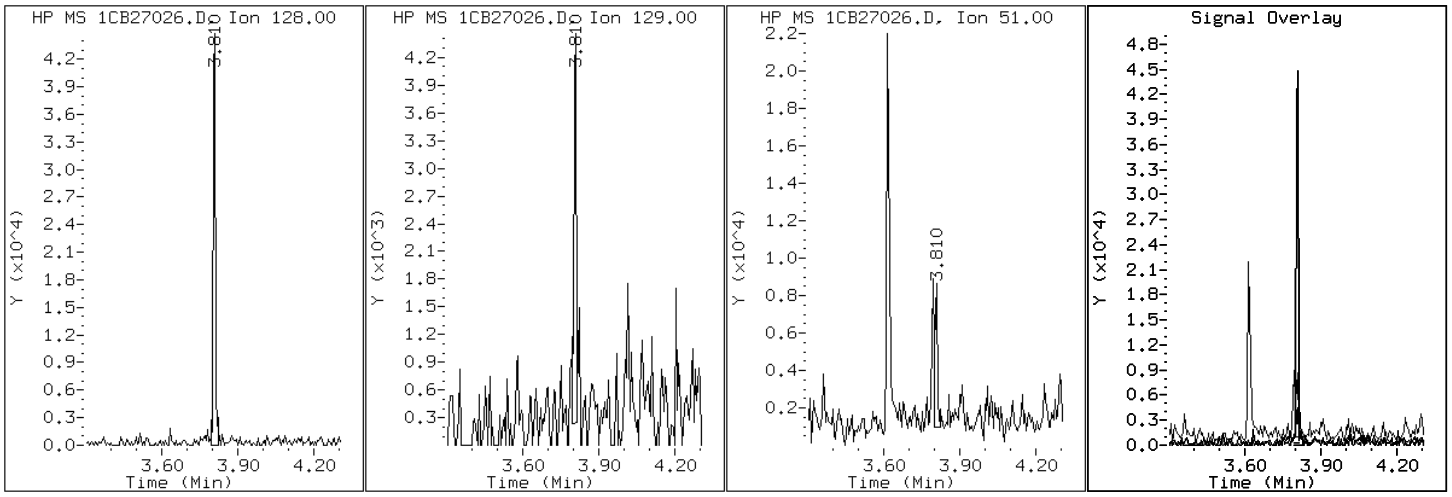
Data File: 1CB27026.D

Date: 27-FEB-2013 19:37

Client ID: FM0161LLLL-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-42-a Operator: SCC

2 Naphthalene



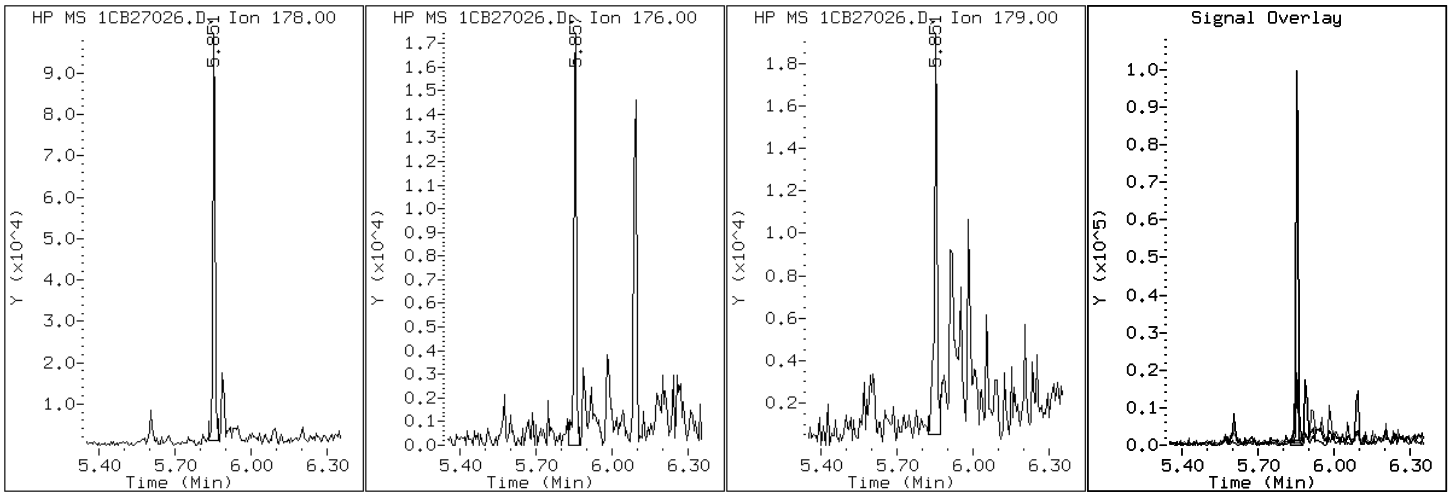
Data File: 1CB27026.D

Date: 27-FEB-2013 19:37

Client ID: FM0161LLLL-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-42-a Operator: SCC

11 Phenanthrene



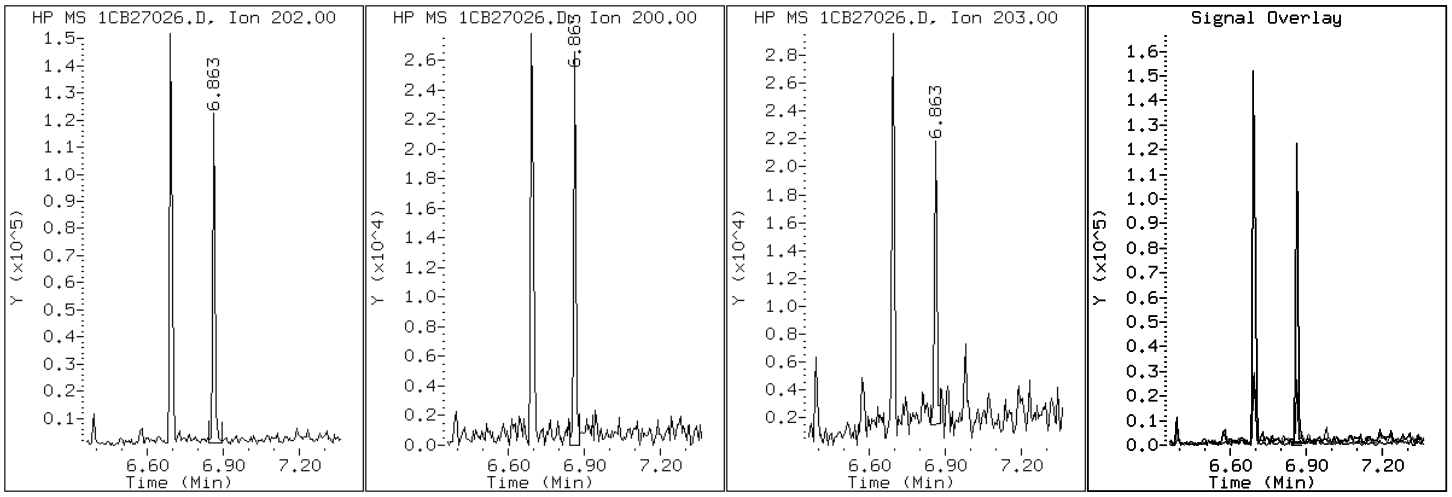
Data File: 1CB27026.D

Date: 27-FEB-2013 19:37

Client ID: FM0161LLLL-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-42-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB27026.D
Inj. Date and Time: 27-FEB-2013 19:37
Instrument ID: BSMC5973.i
Client ID: FM0161LLLL-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/01/2013

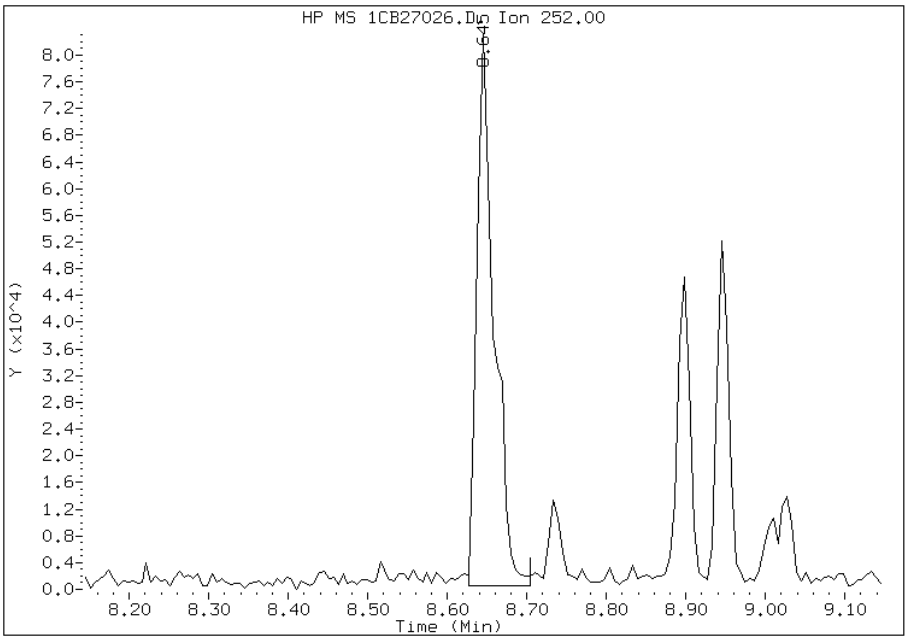
Processing Integration Results

RT: 8.65

Response: 124462

Amount: 2

Conc: 169



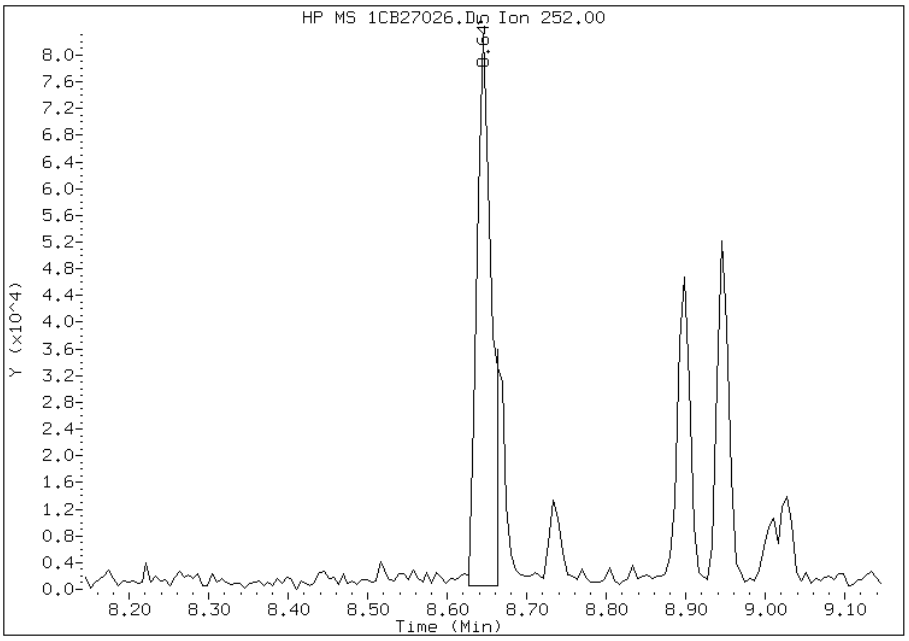
Manual Integration Results

RT: 8.65

Response: 105334

Amount: 2

Conc: 143



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:33
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB27026.D
Inj. Date and Time: 27-FEB-2013 19:37
Instrument ID: BSMC5973.i
Client ID: FM0161LLLL-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/01/2013

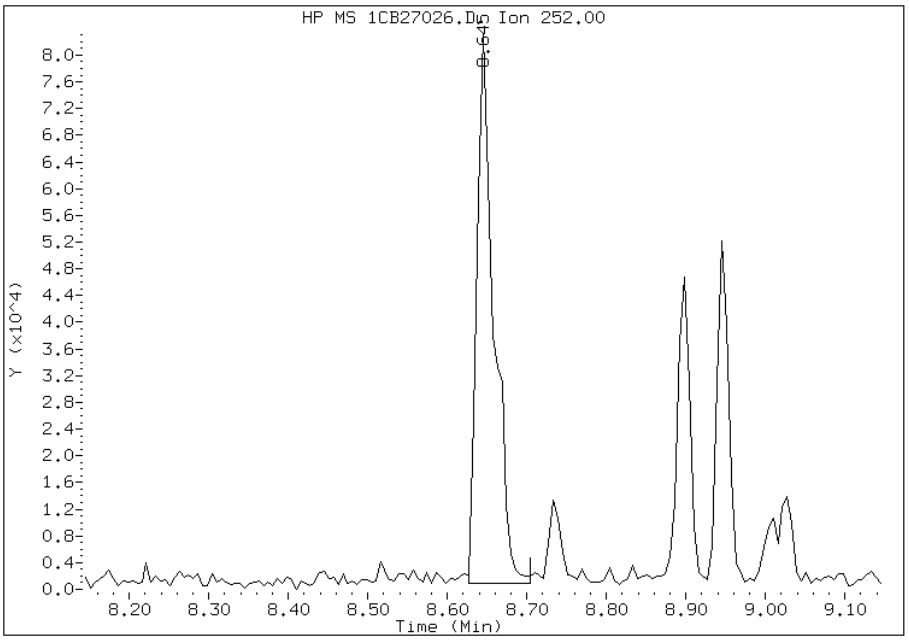
Processing Integration Results

RT: 8.65

Response: 122755

Amount: 2

Conc: 163



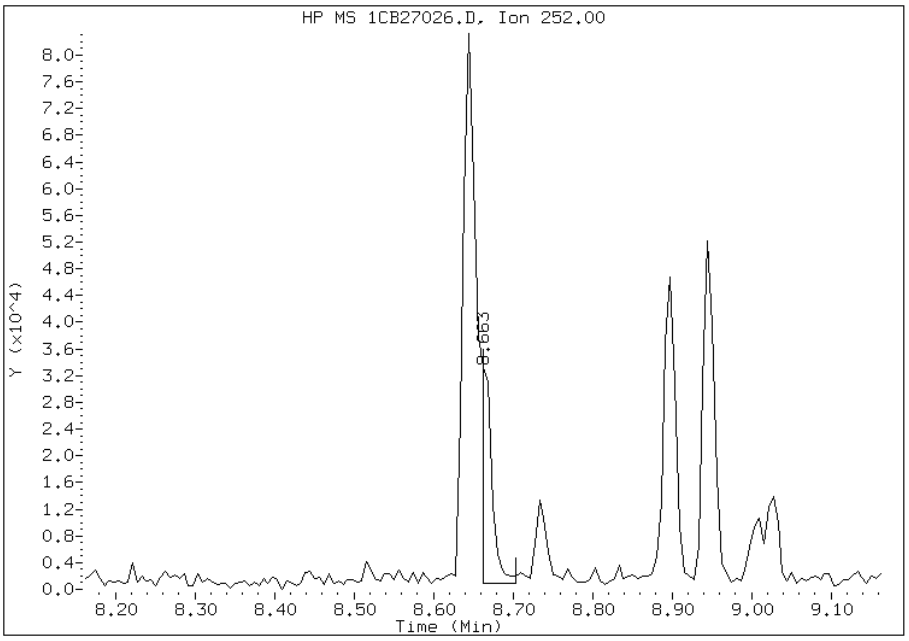
Manual Integration Results

RT: 8.66

Response: 29752

Amount: 0

Conc: 39



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:34
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB27026.D
Inj. Date and Time: 27-FEB-2013 19:37
Instrument ID: BSMC5973.i
Client ID: FM0161LLLL-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/01/2013

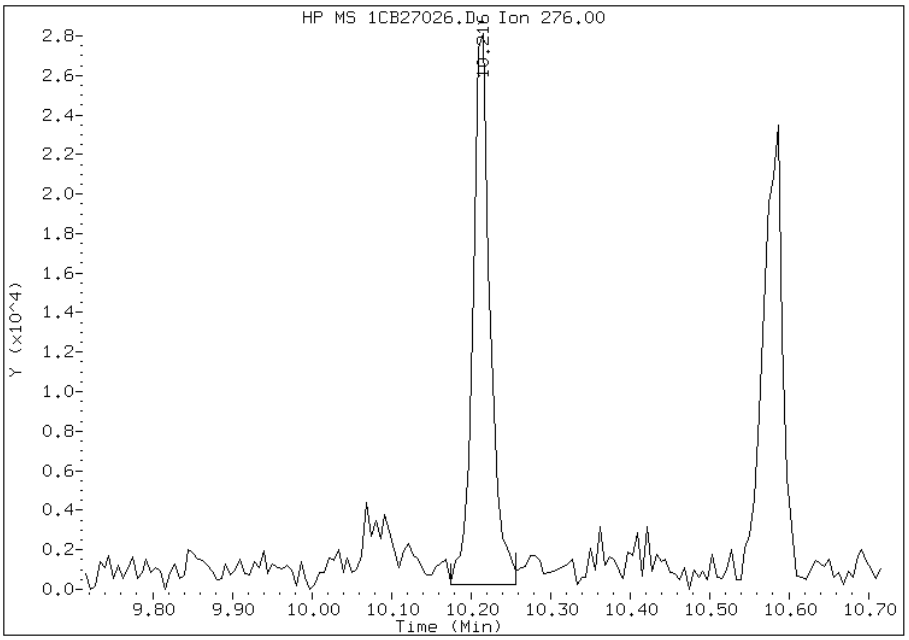
Processing Integration Results

RT: 10.22

Response: 42183

Amount: 1

Conc: 63



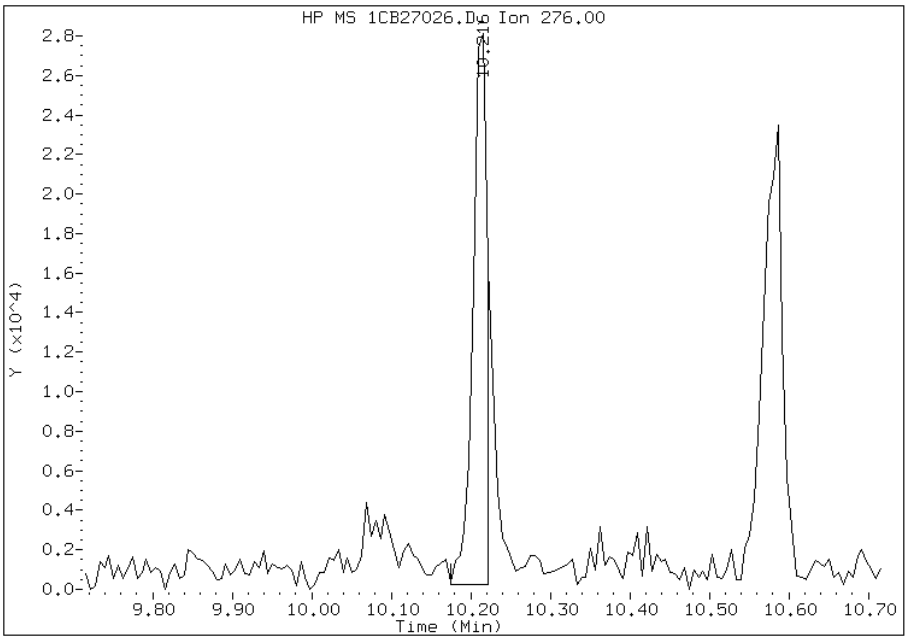
Manual Integration Results

RT: 10.22

Response: 34604

Amount: 1

Conc: 52



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87655-3

SDG No.: 68087655-3

Client Sample ID: FM0161LLLL-CSD | Lab Sample ID: 680-87655-43

Matrix: Solid | Lab File ID: 1CB27027.D

Analysis Method: 8270C LL | Date Collected: 02/19/2013 13:08

Extract. Method: 3546 | Date Extracted: 02/25/2013 14:06

Sample wt/vol: 14.99(g) | Date Analyzed: 02/27/2013 19:55

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

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

% Moisture: 27.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134903 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	13	J	55	6.9
120-12-7	Anthracene	14		12	5.8
56-55-3	Benzo[a]anthracene	87		11	5.4
50-32-8	Benzo[a]pyrene	65		14	7.2
205-99-2	Benzo[b]fluoranthene	150		17	8.4
191-24-2	Benzo[g,h,i]perylene	58		28	6.1
207-08-9	Benzo[k]fluoranthene	40		11	5.0
218-01-9	Chrysene	120		12	6.2
53-70-3	Dibenz(a,h)anthracene	24	J	28	5.6
206-44-0	Fluoranthene	120		28	5.5
86-73-7	Fluorene	11	J	28	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	55		28	9.8
90-12-0	1-Methylnaphthalene	68		55	6.1
91-57-6	2-Methylnaphthalene	76		55	9.8
91-20-3	Naphthalene	95		55	6.1
85-01-8	Phenanthrene	120		11	5.4
129-00-0	Pyrene	110		28	5.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	76		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\1CB27027.D
Lab Smp Id: 680-87655-A-43-A Client Smp ID: FM0161LLLL-CSD
Inj Date : 27-FEB-2013 19:55
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87655-a-43-a
Misc Info : 680-87655-A-43-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\a-bFASTPAHi-m.m
Meth Date : 27-Feb-2013 16:31 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	27.294	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.792	3.792	(1.000)	1685175	40.0000	
* 6 Acenaphthene-d10	164	4.886	4.880	(1.000)	1363791	40.0000	
* 10 Phenanthrene-d10	188	5.839	5.839	(1.000)	2540305	40.0000	
$ 14 o-Terphenyl	230	6.092	6.092	(1.043)	291108	7.58998	696.4115
* 18 Chrysene-d12	240	7.792	7.792	(1.000)	2712001	40.0000	
* 23 Perylene-d12	264	9.003	9.004	(1.000)	2530117	40.0000	
2 Naphthalene	128	3.804	3.804	(1.003)	45496	1.03703	95.1517
3 2-Methylnaphthalene	142	4.233	4.233	(1.116)	24153	0.82534	75.7286
4 1-Methylnaphthalene	142	4.298	4.298	(1.133)	19664	0.73779	67.6949
5 Acenaphthylene	152	4.798	4.798	(0.982)	7995	0.14541	13.3416
9 Fluorene	166	5.227	5.221	(1.070)	5246	0.12138	11.1367(Q)
11 Phenanthrene	178	5.851	5.851	(1.002)	95370	1.29836	119.1295
12 Anthracene	178	5.886	5.886	(1.008)	11046	0.15376	14.1083
13 Carbazole	167	5.998	5.992	(1.027)	7967	0.12476	11.4471(Q)
15 Fluoranthene	202	6.698	6.698	(1.147)	107750	1.33948	122.9031

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.862	6.863	(0.881)	89544	1.22863	112.7319
17 Benzo(a)anthracene	228	7.780	7.780	(0.998)	74142	0.94722	86.9109
19 Chrysene	228	7.809	7.810	(1.002)	102005	1.30221	119.4828
20 Benzo(b)fluoranthene	252	8.645	8.645	(0.960)	108131	1.63534	150.0493(M)
21 Benzo(k)fluoranthene	252	8.662	8.668	(0.962)	29608	0.43650	40.0508(QM)
22 Benzo(a)pyrene	252	8.950	8.945	(0.994)	45505	0.70852	65.0095
24 Indeno(1,2,3-cd)pyrene	276	10.215	10.215	(1.135)	36446	0.60323	55.3489(M)
25 Dibenzo(a,h)anthracene	278	10.239	10.233	(1.137)	15198	0.25717	23.5963(M)
26 Benzo(g,h,i)perylene	276	10.580	10.580	(1.175)	39989	0.63271	58.0541

QC Flag Legend

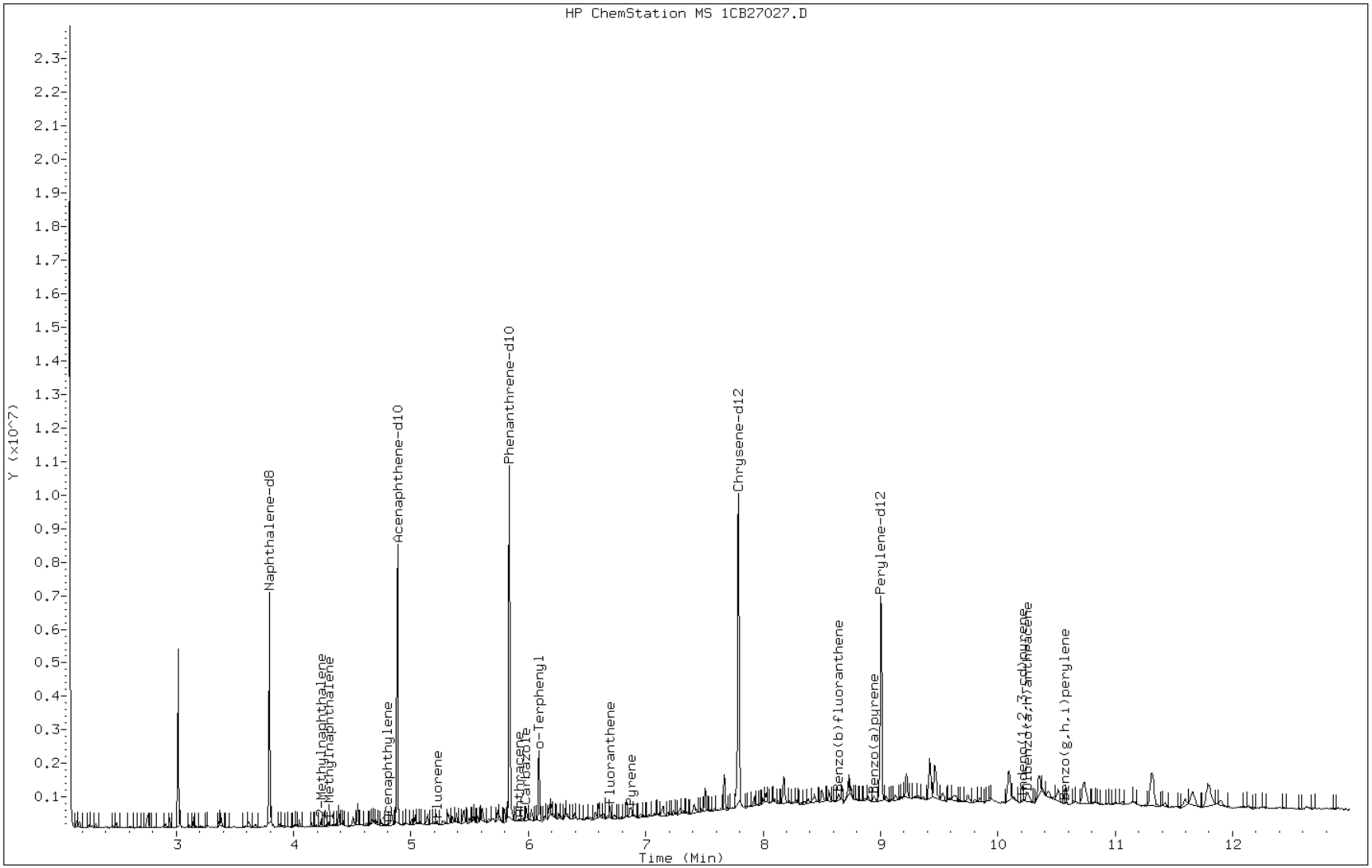
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB27027.D

Date: 27-FEB-2013 19:55

Client ID: FM0161LLLL-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-43-a Operator: SCC



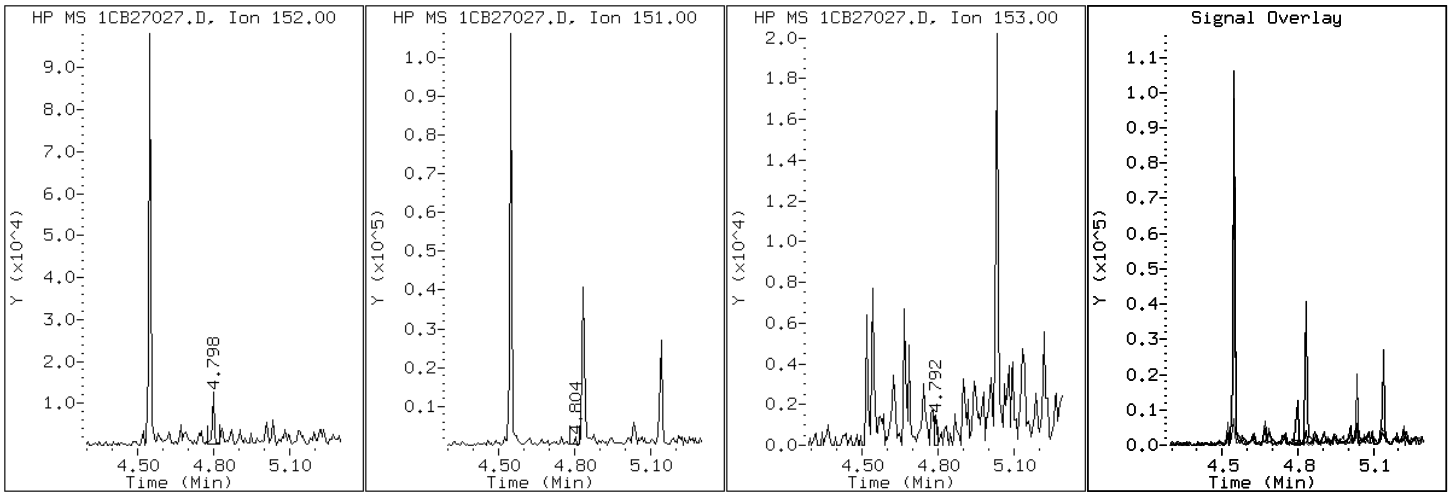
Data File: 1CB27027.D

Date: 27-FEB-2013 19:55

Client ID: FM0161LLLL-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-43-a Operator: SCC

5 Acenaphthylene



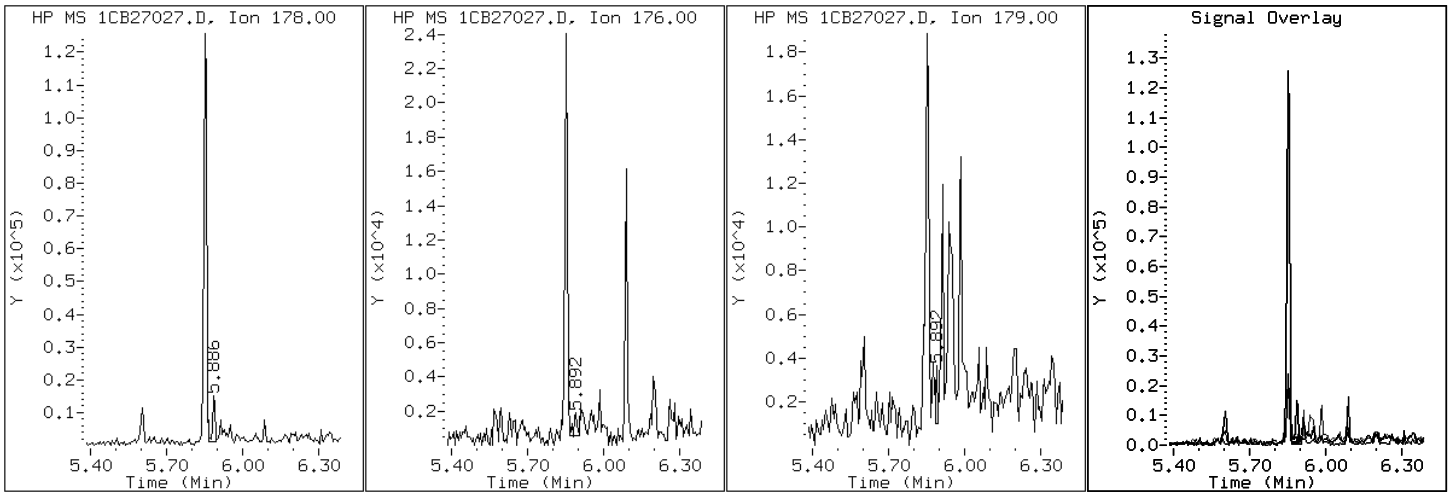
Data File: 1CB27027.D

Date: 27-FEB-2013 19:55

Client ID: FM0161LLLL-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-43-a Operator: SCC

12 Anthracene



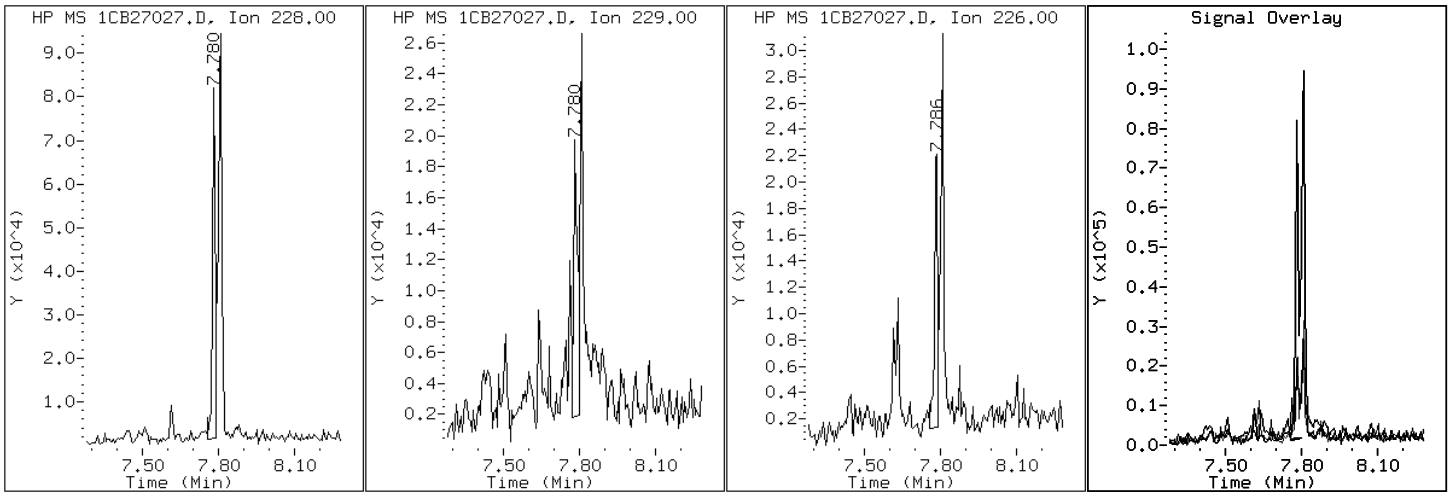
Data File: 1CB27027.D

Date: 27-FEB-2013 19:55

Client ID: FM0161LLLL-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-43-a Operator: SCC

17 Benzo(a)anthracene



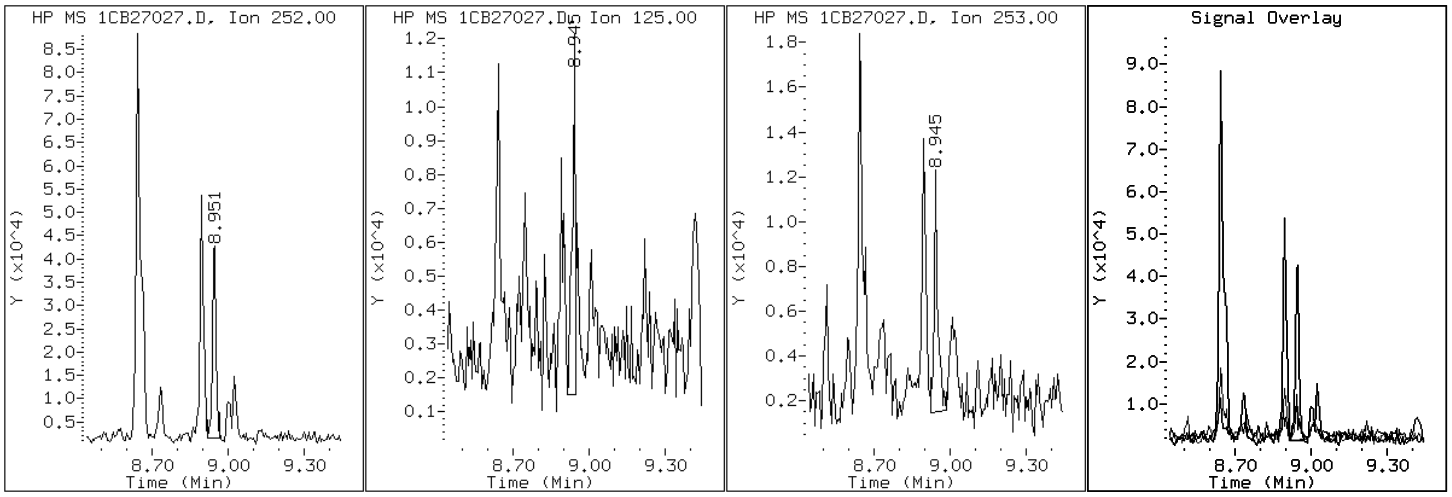
Data File: 1CB27027.D

Date: 27-FEB-2013 19:55

Client ID: FM0161LLLL-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-43-a Operator: SCC

22 Benzo(a)pyrene



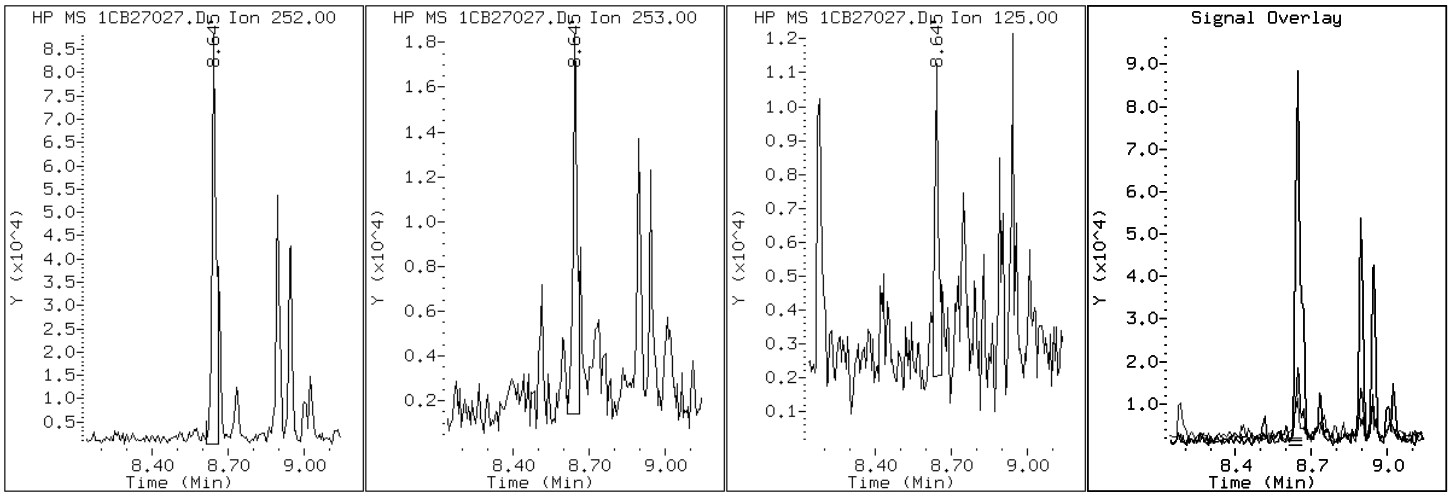
Data File: 1CB27027.D

Date: 27-FEB-2013 19:55

Client ID: FM0161LLLL-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-43-a Operator: SCC

20 Benzo(b)fluoranthene



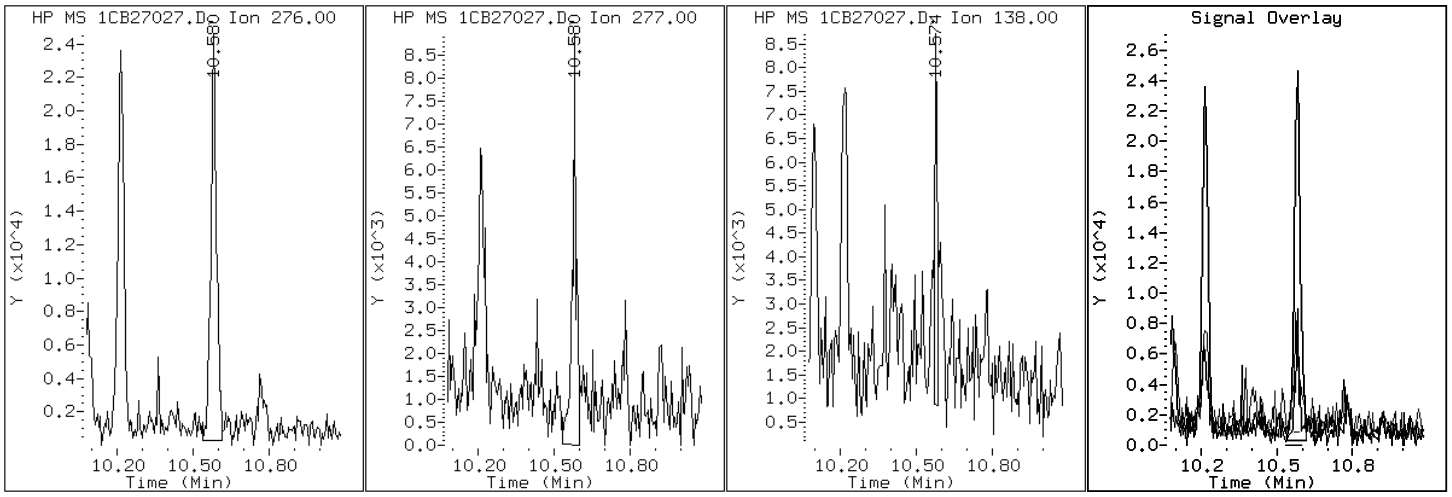
Data File: 1CB27027.D

Date: 27-FEB-2013 19:55

Client ID: FM0161LLLL-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-43-a Operator: SCC

26 Benzo(g,h,i)perylene



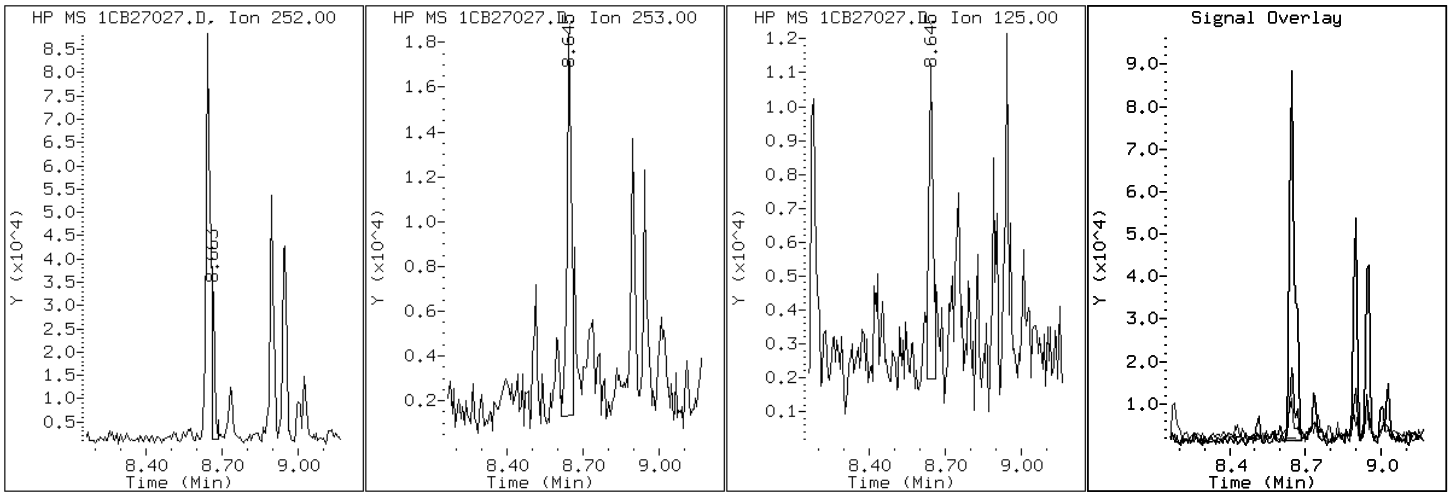
Data File: 1CB27027.D

Date: 27-FEB-2013 19:55

Client ID: FM0161LLLL-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-43-a Operator: SCC

21 Benzo(k)fluoranthene



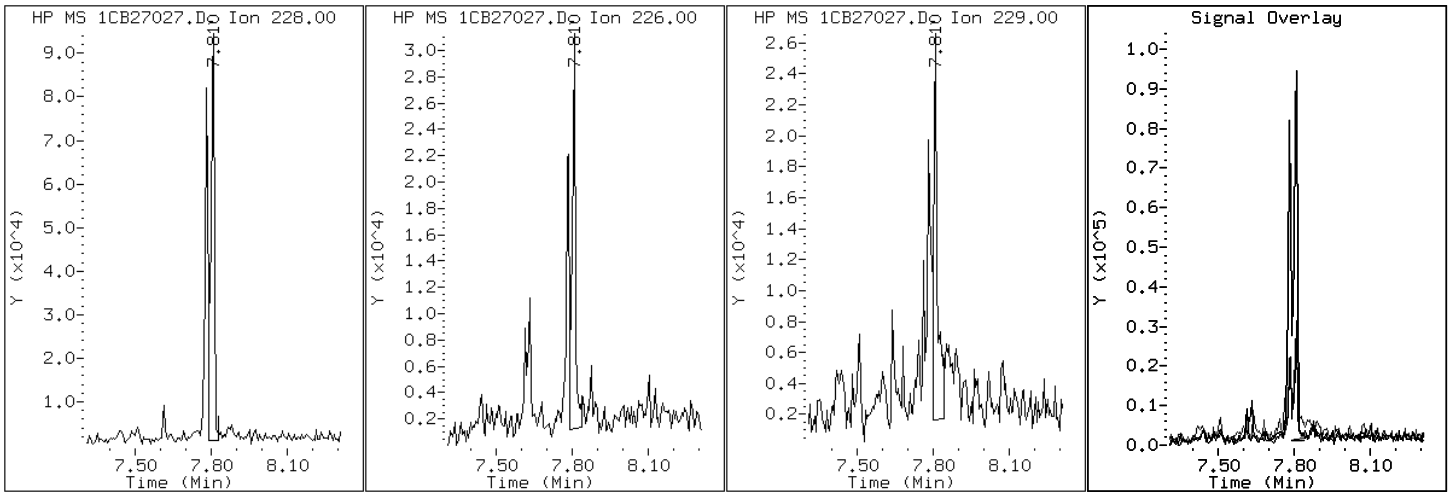
Data File: 1CB27027.D

Date: 27-FEB-2013 19:55

Client ID: FM0161LLLL-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-43-a Operator: SCC

19 Chrysene



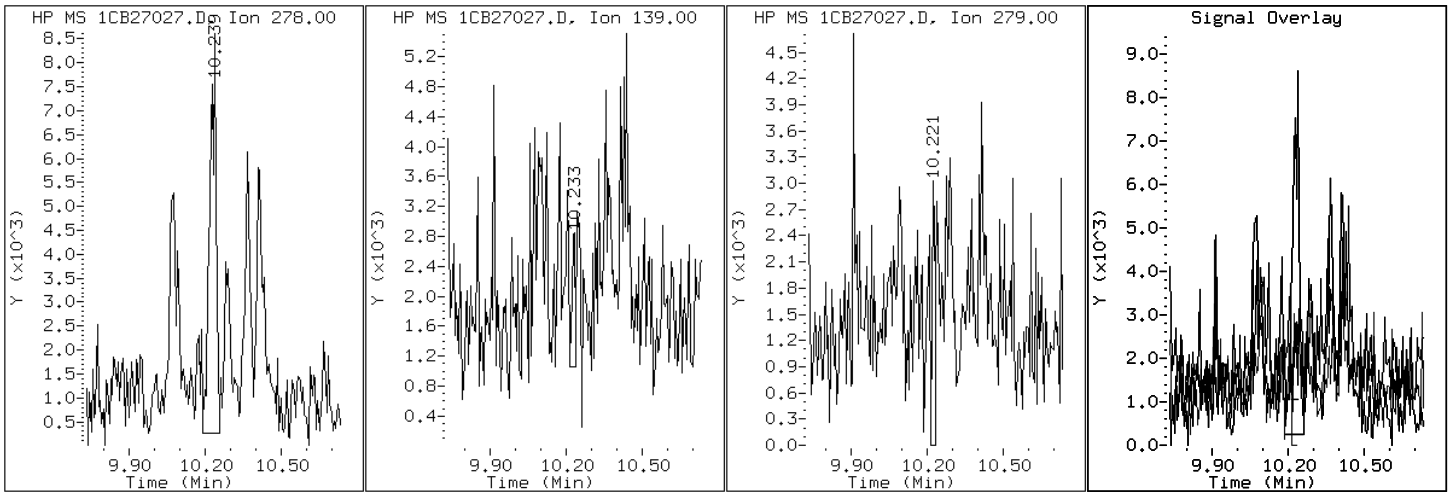
Data File: 1CB27027.D

Date: 27-FEB-2013 19:55

Client ID: FM0161LLLL-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-43-a Operator: SCC

25 Dibenzo(a,h)anthracene



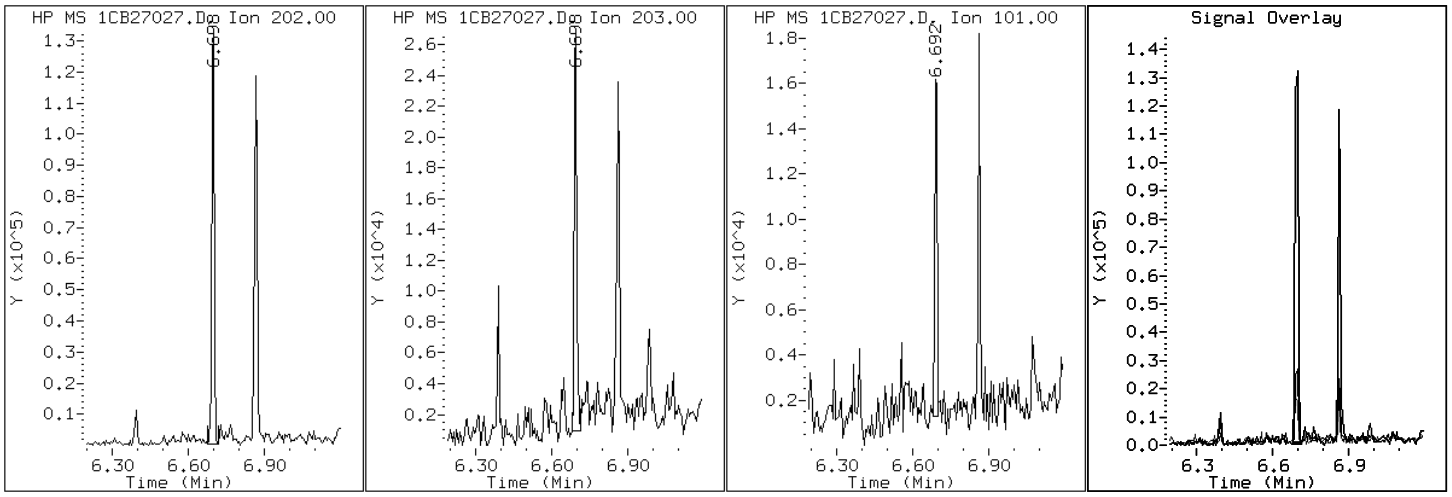
Data File: 1CB27027.D

Date: 27-FEB-2013 19:55

Client ID: FM0161LLLL-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-43-a Operator: SCC

15 Fluoranthene



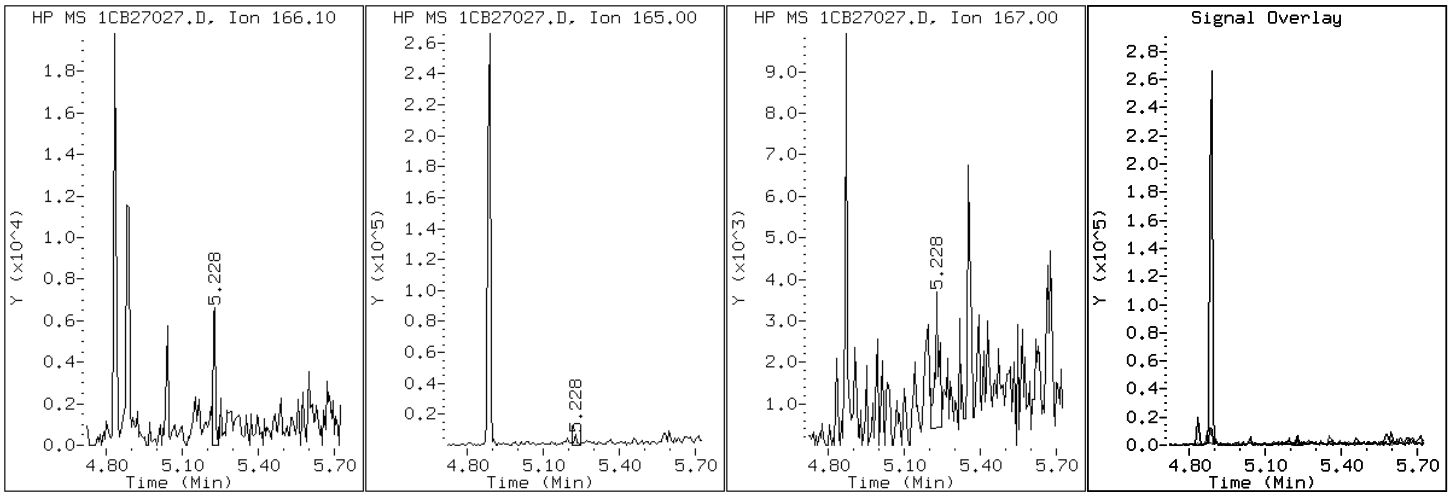
Data File: 1CB27027.D

Date: 27-FEB-2013 19:55

Client ID: FM0161LLLL-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-43-a Operator: SCC

9 Fluorene



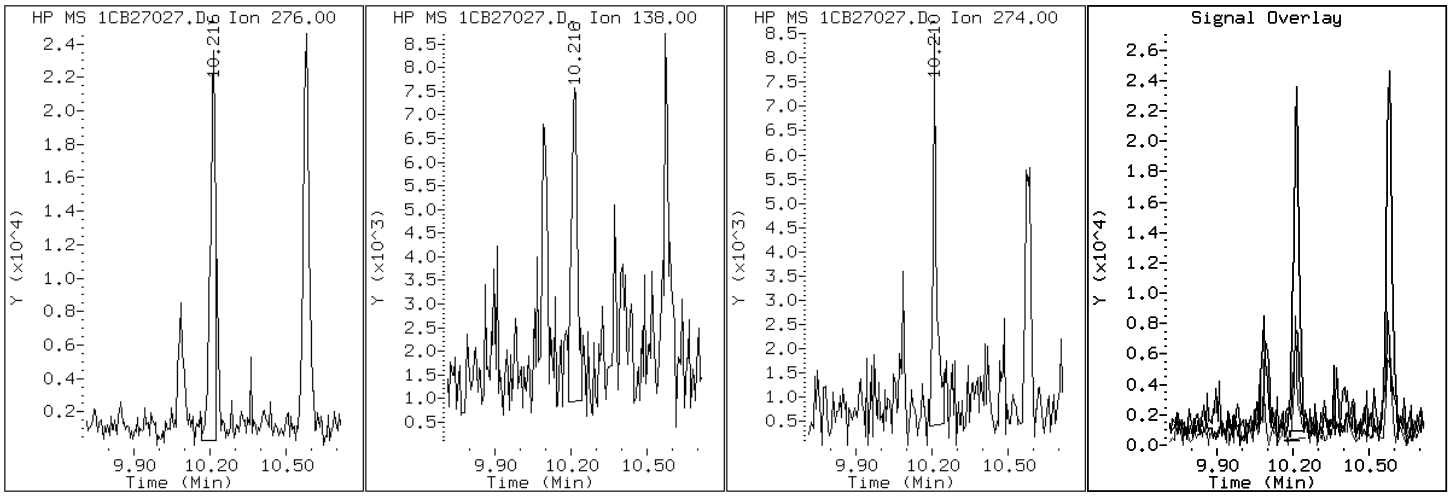
Data File: 1CB27027.D

Date: 27-FEB-2013 19:55

Client ID: FM0161LLLL-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-43-a Operator: SCC

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



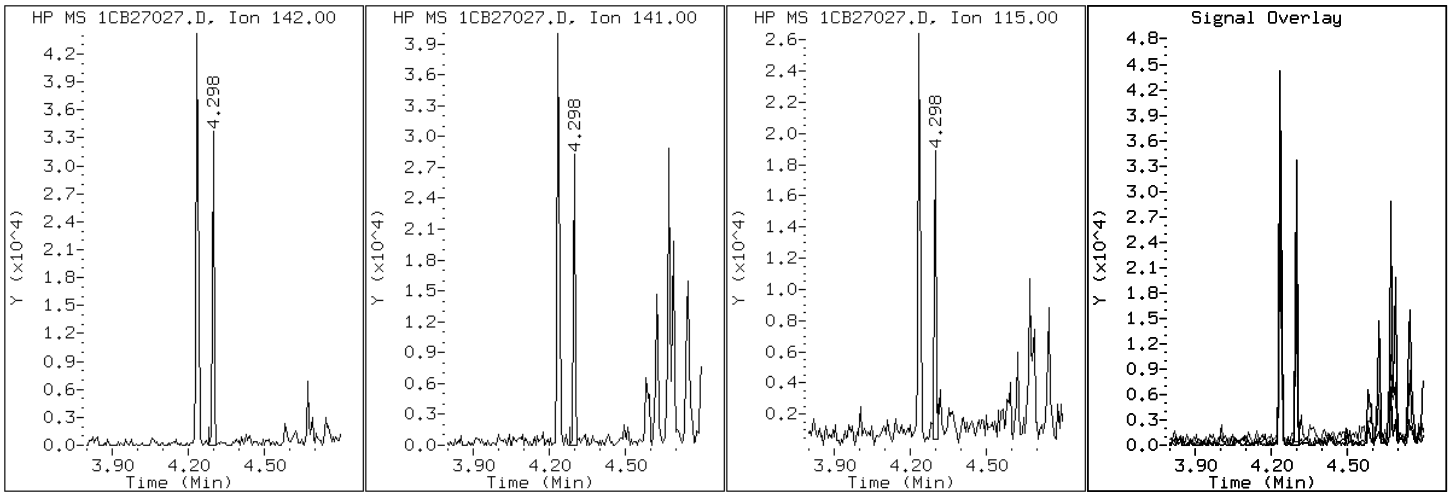
Data File: 1CB27027.D

Date: 27-FEB-2013 19:55

Client ID: FM0161LLLL-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-43-a Operator: SCC

4 1-Methylnaphthalene



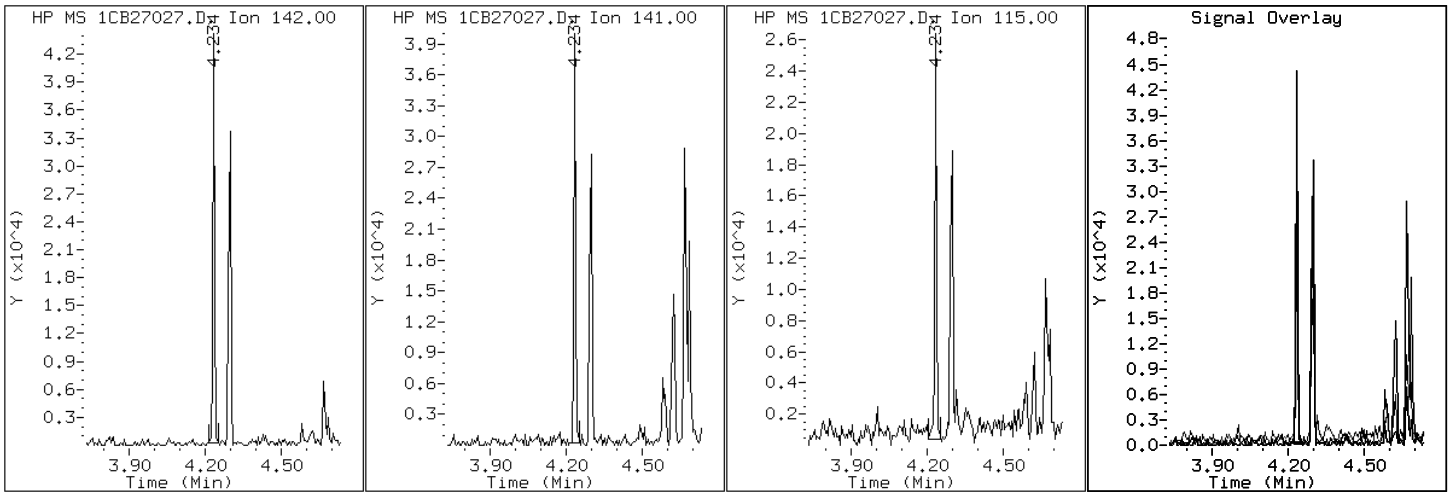
Data File: 1CB27027.D

Date: 27-FEB-2013 19:55

Client ID: FM0161LLLL-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-43-a Operator: SCC

3 2-Methylnaphthalene



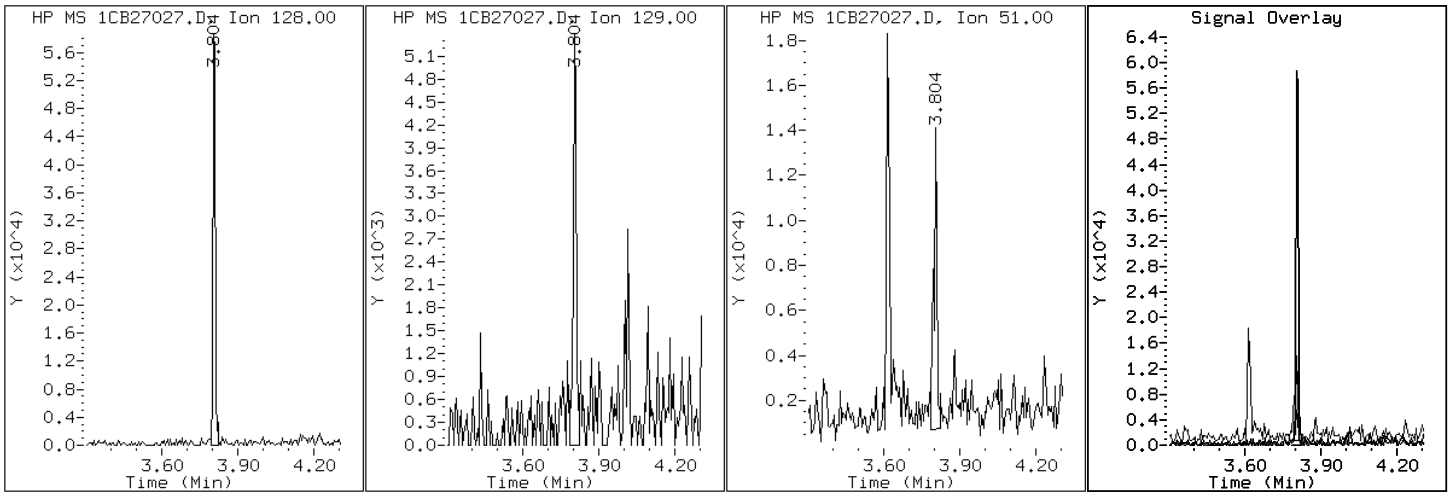
Data File: 1CB27027.D

Date: 27-FEB-2013 19:55

Client ID: FM0161LLLL-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-43-a Operator: SCC

2 Naphthalene



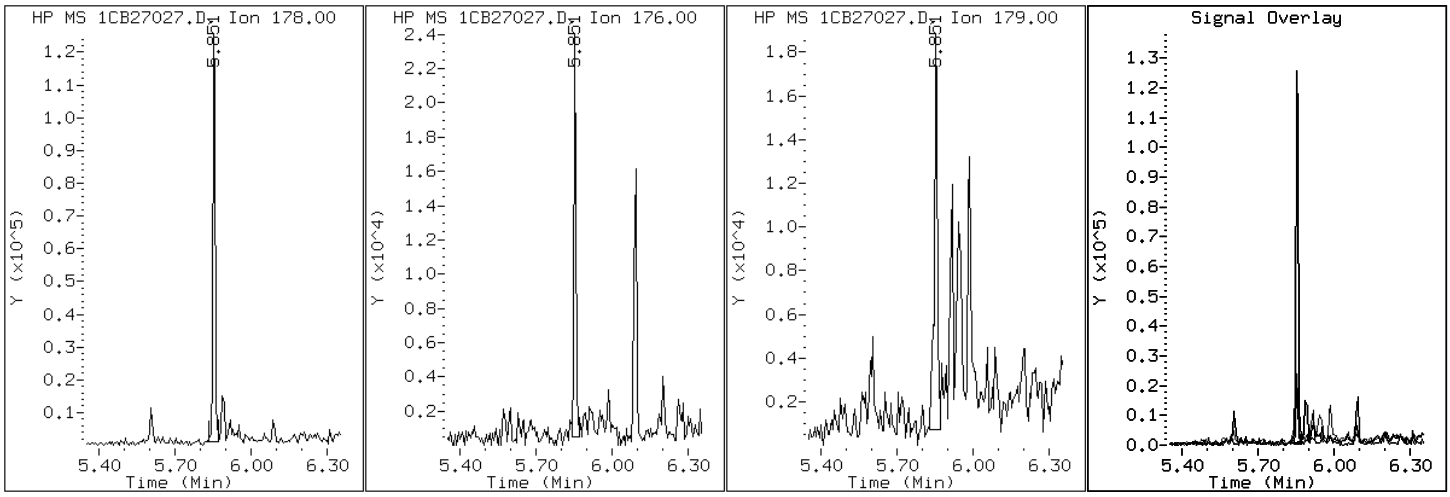
Data File: 1CB27027.D

Date: 27-FEB-2013 19:55

Client ID: FM0161LLLL-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-43-a Operator: SCC

11 Phenanthrene



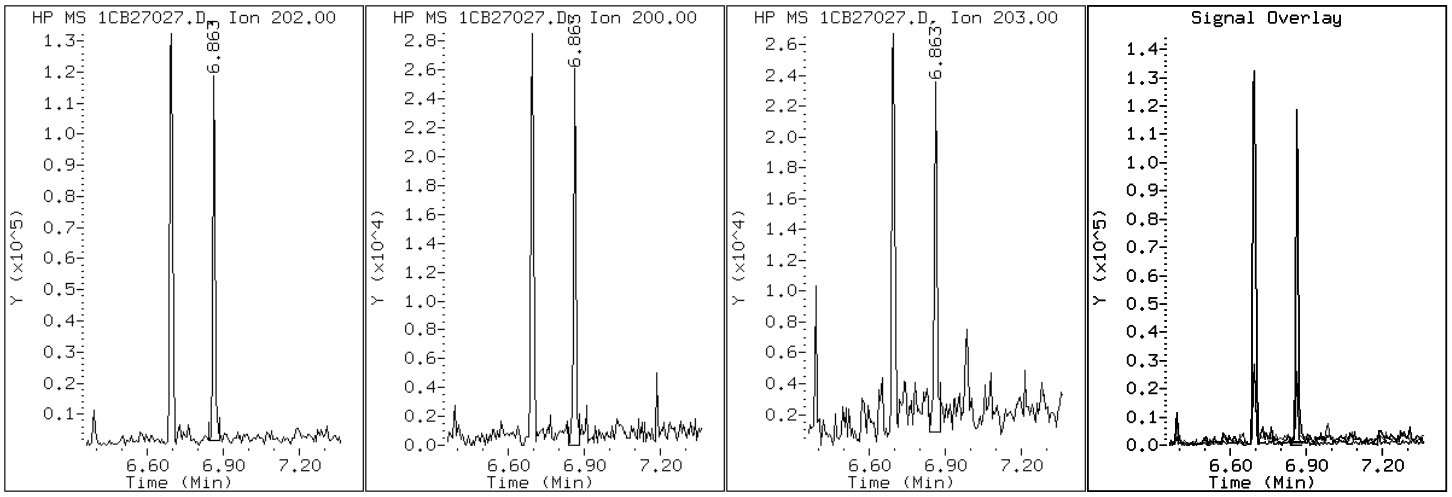
Data File: 1CB27027.D

Date: 27-FEB-2013 19:55

Client ID: FM0161LLLL-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-43-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB27027.D
Inj. Date and Time: 27-FEB-2013 19:55
Instrument ID: BSMC5973.i
Client ID: FM0161LLLL-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/01/2013

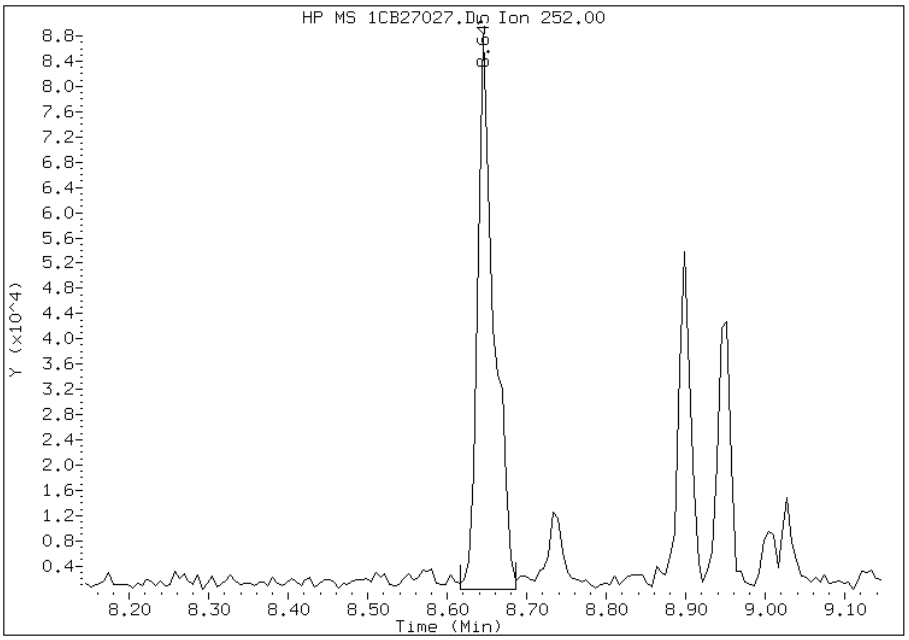
Processing Integration Results

RT: 8.65

Response: 127543

Amount: 2

Conc: 177



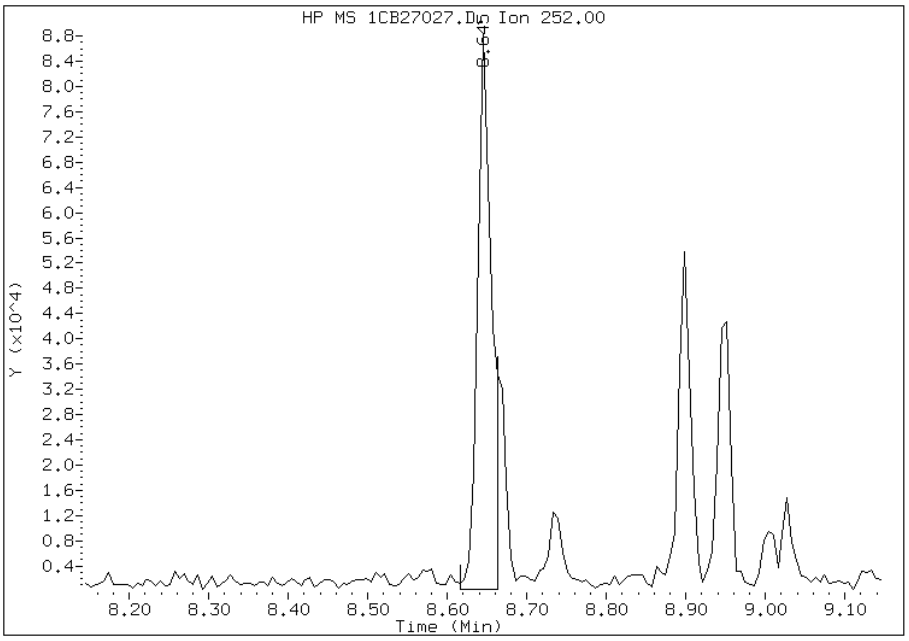
Manual Integration Results

RT: 8.65

Response: 108131

Amount: 2

Conc: 150



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:34
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB27027.D
Inj. Date and Time: 27-FEB-2013 19:55
Instrument ID: BSMC5973.i
Client ID: FM0161LLLL-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/01/2013

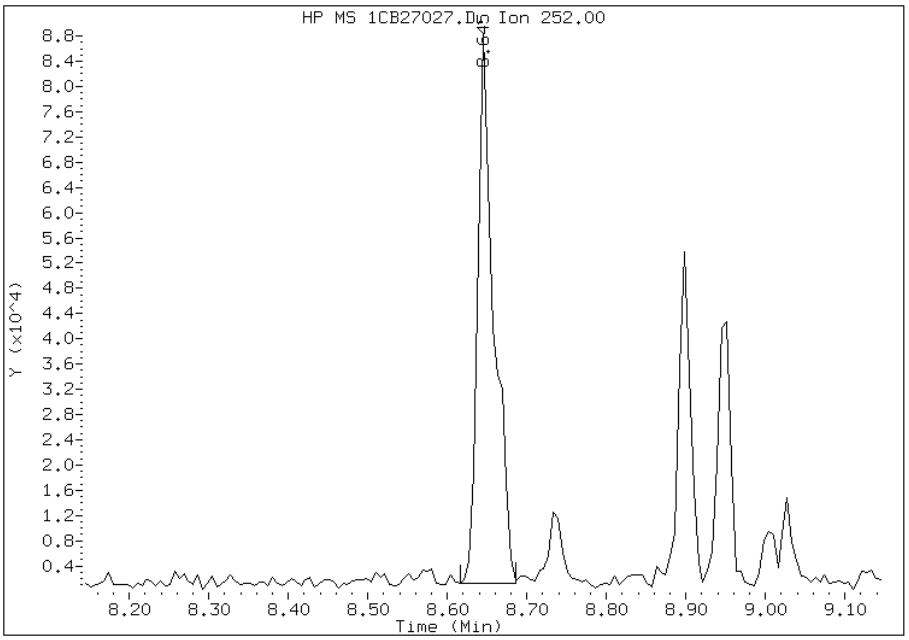
Processing Integration Results

RT: 8.65

Response: 123394

Amount: 2

Conc: 167



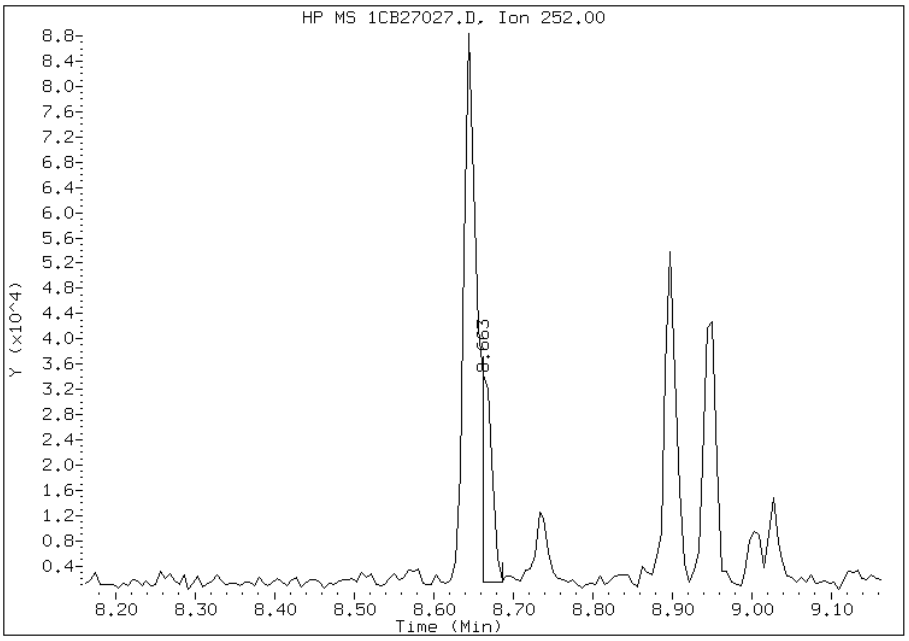
Manual Integration Results

RT: 8.66

Response: 29608

Amount: 0

Conc: 40



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB27027.D
Inj. Date and Time: 27-FEB-2013 19:55
Instrument ID: BSMC5973.i
Client ID: FM0161LLLL-CSD
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/01/2013

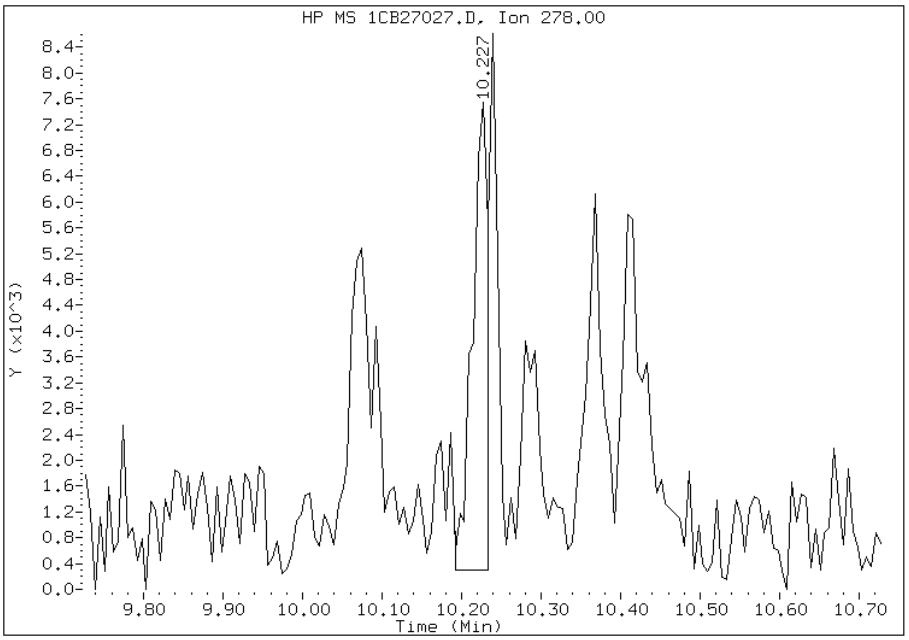
Processing Integration Results

RT: 10.23

Response: 9803

Amount: 0

Conc: 15



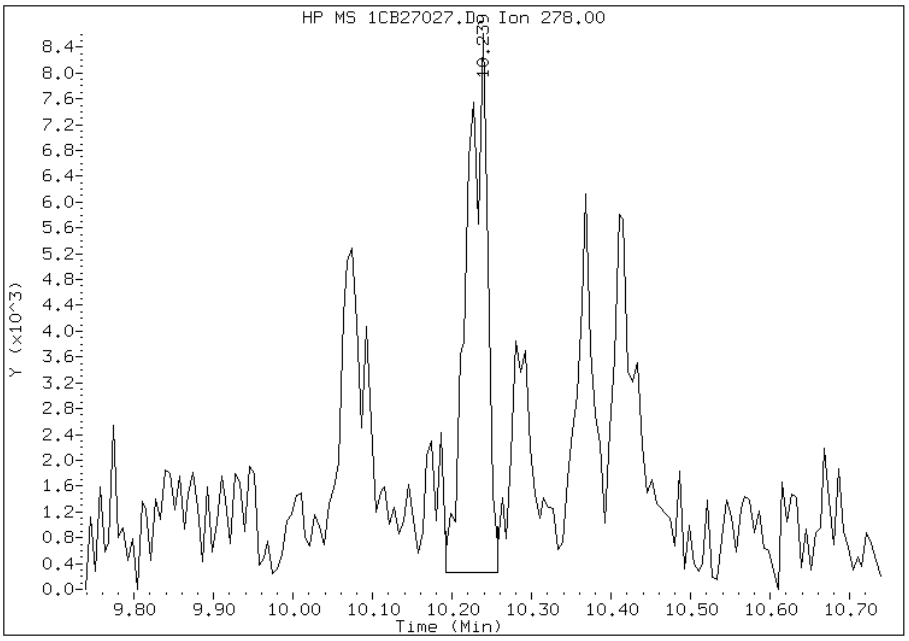
Manual Integration Results

RT: 10.24

Response: 15198

Amount: 0

Conc: 24



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB27027.D
Inj. Date and Time: 27-FEB-2013 19:55
Instrument ID: BSMC5973.i
Client ID: FM0161LLLL-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/01/2013

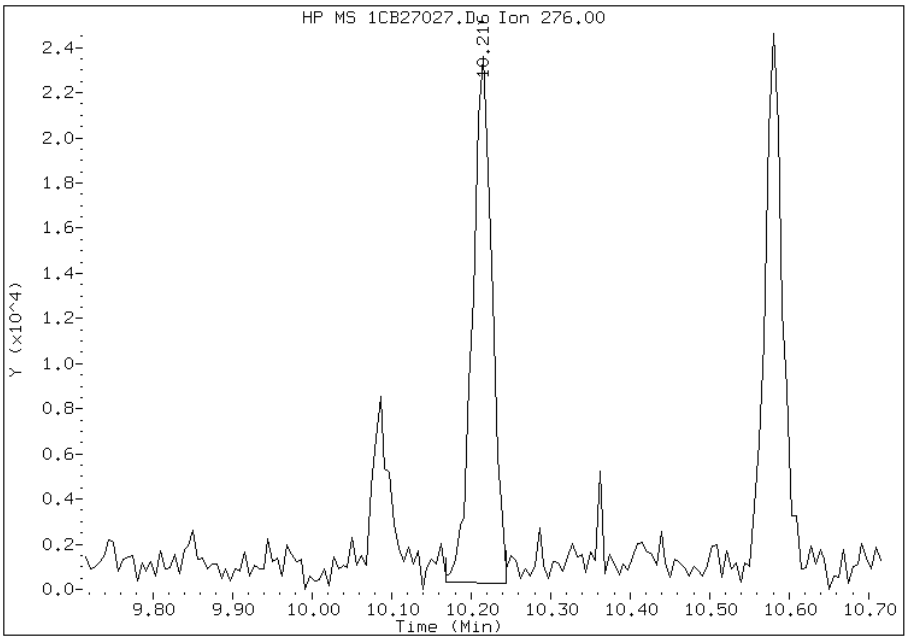
Processing Integration Results

RT: 10.22

Response: 39652

Amount: 1

Conc: 60



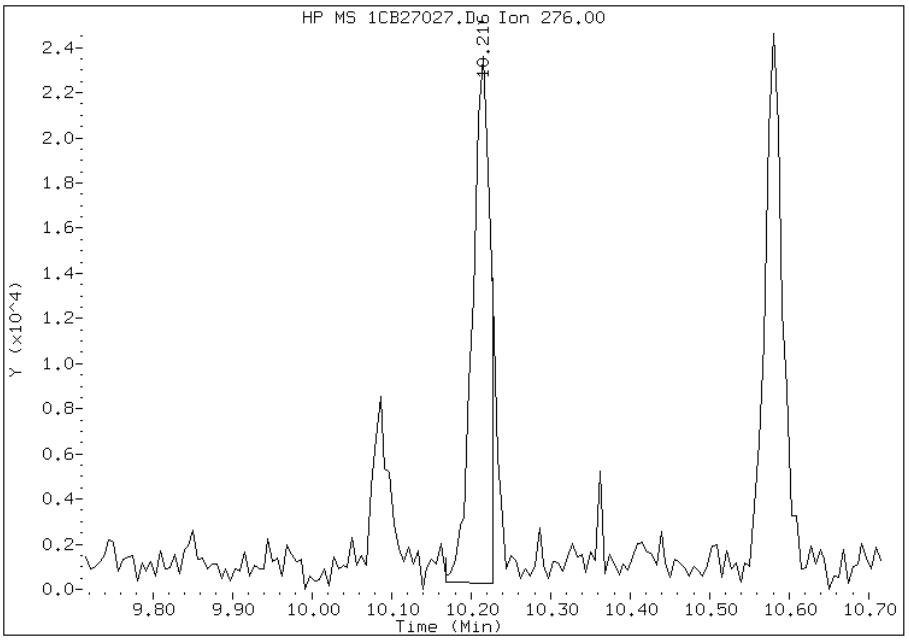
Manual Integration Results

RT: 10.22

Response: 36446

Amount: 1

Conc: 55



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:35
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87655-3

SDG No.: 68087655-3

Client Sample ID: FM0161MMMM-CS | Lab Sample ID: 680-87655-44

Matrix: Solid | Lab File ID: 1CB27028.D

Analysis Method: 8270C LL | Date Collected: 02/19/2013 13:22

Extract. Method: 3546 | Date Extracted: 02/25/2013 14:06

Sample wt/vol: 15.00(g) | Date Analyzed: 02/27/2013 20:13

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.: 134903 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	20	J	51	6.3
120-12-7	Anthracene	29		11	5.3
56-55-3	Benzo[a]anthracene	180		10	5.0
50-32-8	Benzo[a]pyrene	140		13	6.6
205-99-2	Benzo[b]fluoranthene	310		15	7.7
191-24-2	Benzo[g,h,i]perylene	90		25	5.6
207-08-9	Benzo[k]fluoranthene	76		10	4.6
218-01-9	Chrysene	210		11	5.7
53-70-3	Dibenz(a,h)anthracene	28		25	5.2
206-44-0	Fluoranthene	270		25	5.1
86-73-7	Fluorene	8.8	J	25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	84		25	9.0
90-12-0	1-Methylnaphthalene	51		51	5.6
91-57-6	2-Methylnaphthalene	49	J	51	9.0
91-20-3	Naphthalene	59		51	5.6
85-01-8	Phenanthrene	130		10	5.0
129-00-0	Pyrene	290		25	4.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	82		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\1CB27028.D
Lab Smp Id: 680-87655-A-44-A Client Smp ID: FM0161MMMM-CS
Inj Date : 27-FEB-2013 20:13
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87655-a-44-a
Misc Info : 680-87655-A-44-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\a-bFASTPAHi-m.m
Meth Date : 27-Feb-2013 16:31 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

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	21.245	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.792	3.792	(1.000)	1649811	40.0000	
* 6 Acenaphthene-d10	164	4.886	4.880	(1.000)	1298574	40.0000	
* 10 Phenanthrene-d10	188	5.839	5.839	(1.000)	2444692	40.0000	
$ 14 o-Terphenyl	230	6.092	6.092	(1.043)	303877	8.23277	696.9062
* 18 Chrysene-d12	240	7.792	7.792	(1.000)	2601216	40.0000	
* 23 Perylene-d12	264	9.003	9.004	(1.000)	2398768	40.0000	
2 Naphthalene	128	3.804	3.804	(1.003)	29815	0.69417	58.7613
3 2-Methylnaphthalene	142	4.233	4.233	(1.116)	16566	0.57822	48.9463
4 1-Methylnaphthalene	142	4.298	4.298	(1.133)	15827	0.60655	51.3448
5 Acenaphthylene	152	4.798	4.798	(0.982)	12446	0.23773	20.1235
9 Fluorene	166	5.227	5.221	(1.070)	4276	0.10390	8.7953(Q)
11 Phenanthrene	178	5.851	5.851	(1.002)	107732	1.52401	129.0081
12 Anthracene	178	5.886	5.886	(1.008)	23395	0.33840	28.6457
13 Carbazole	167	5.998	5.992	(1.027)	15182	0.24704	20.9121(Q)
15 Fluoranthene	202	6.692	6.698	(1.146)	250965	3.24187	274.4249

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.862	6.863	(0.881)	237863	3.40271	288.0406
17 Benzo(a)anthracene	228	7.780	7.780	(0.998)	160461	2.13731	180.9240
19 Chrysene	228	7.809	7.810	(1.002)	185580	2.47004	209.0893
20 Benzo(b)fluoranthene	252	8.645	8.645	(0.960)	228288	3.64161	308.2636(M)
21 Benzo(k)fluoranthene	252	8.662	8.668	(0.962)	57695	0.89715	75.9443(QM)
22 Benzo(a)pyrene	252	8.945	8.945	(0.993)	101953	1.67434	141.7338
24 Indeno(1,2,3-cd)pyrene	276	10.215	10.215	(1.135)	56522	0.98674	83.5279(M)
25 Dibenzo(a,h)anthracene	278	10.233	10.233	(1.137)	18863	0.33666	28.4986(M)
26 Benzo(g,h,i)perylene	276	10.574	10.580	(1.174)	63561	1.06074	89.7922

QC Flag Legend

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

Data File: 1CB27028.D

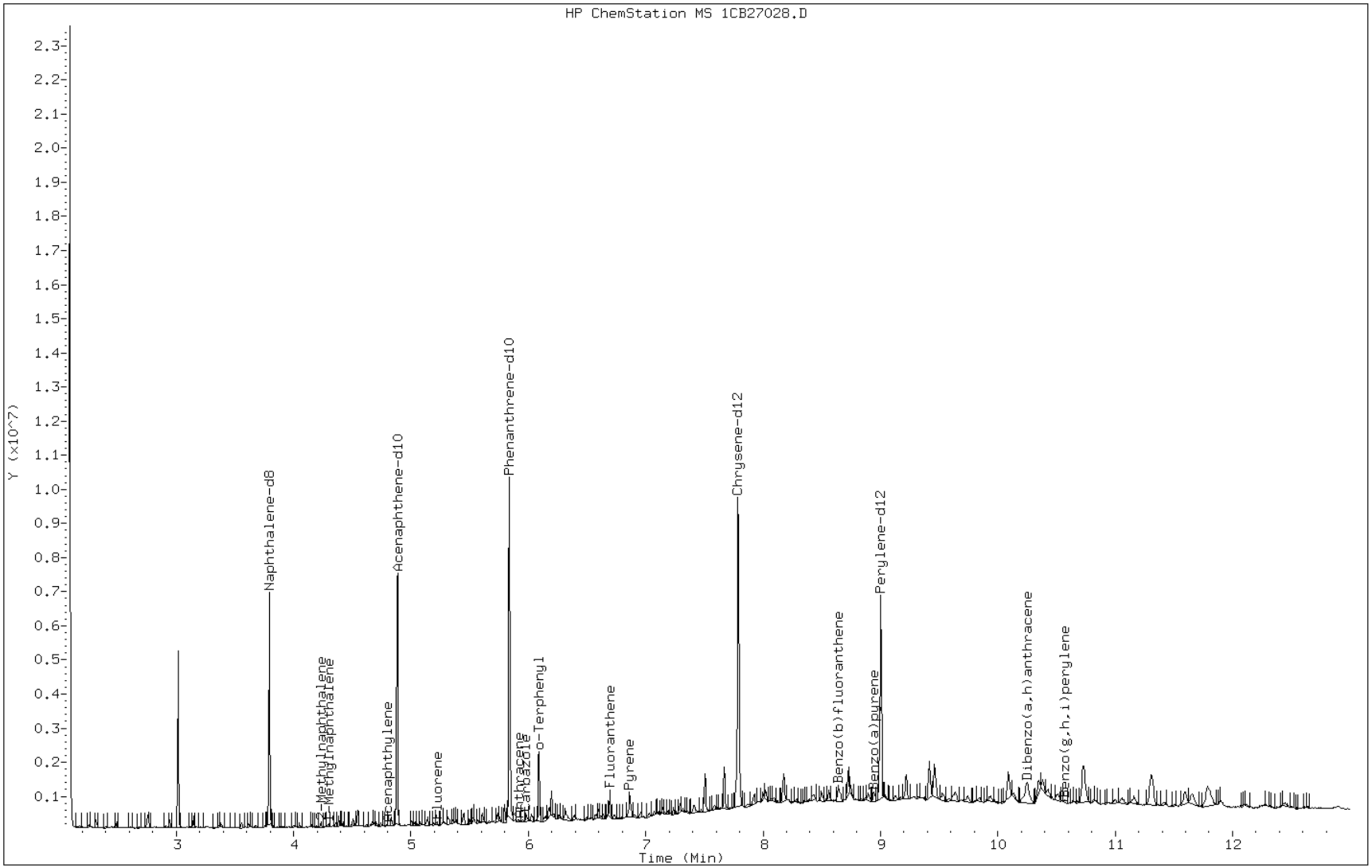
Date: 27-FEB-2013 20:13

Client ID: FM0161MMMM-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-44-a

Operator: SCC



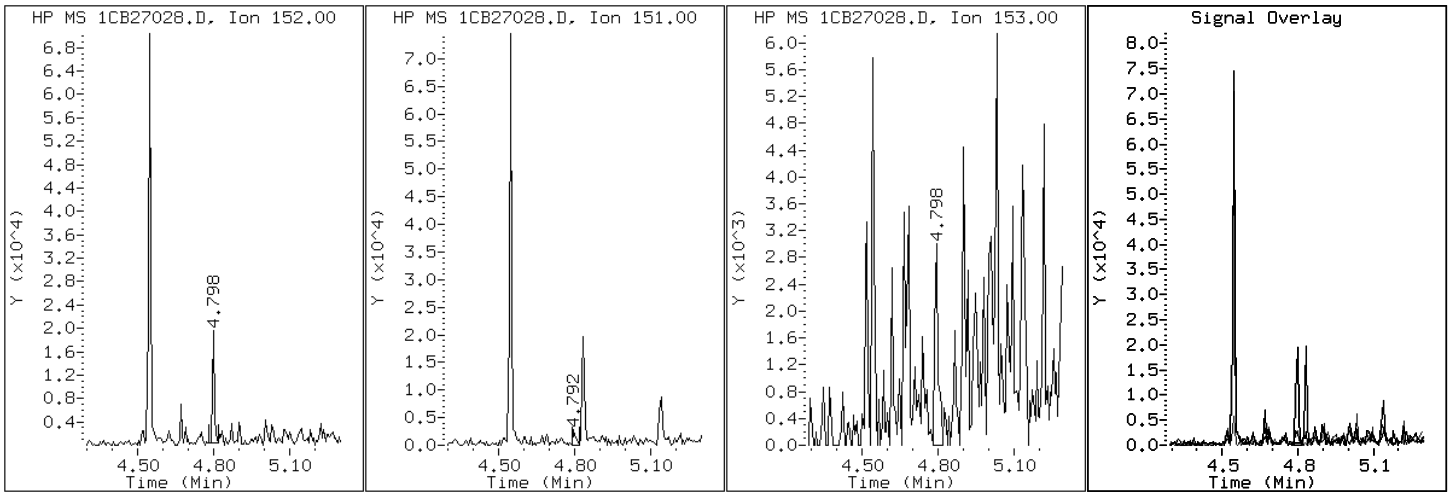
Data File: 1CB27028.D

Date: 27-FEB-2013 20:13

Client ID: FM0161MMMM-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-44-a Operator: SCC

5 Acenaphthylene



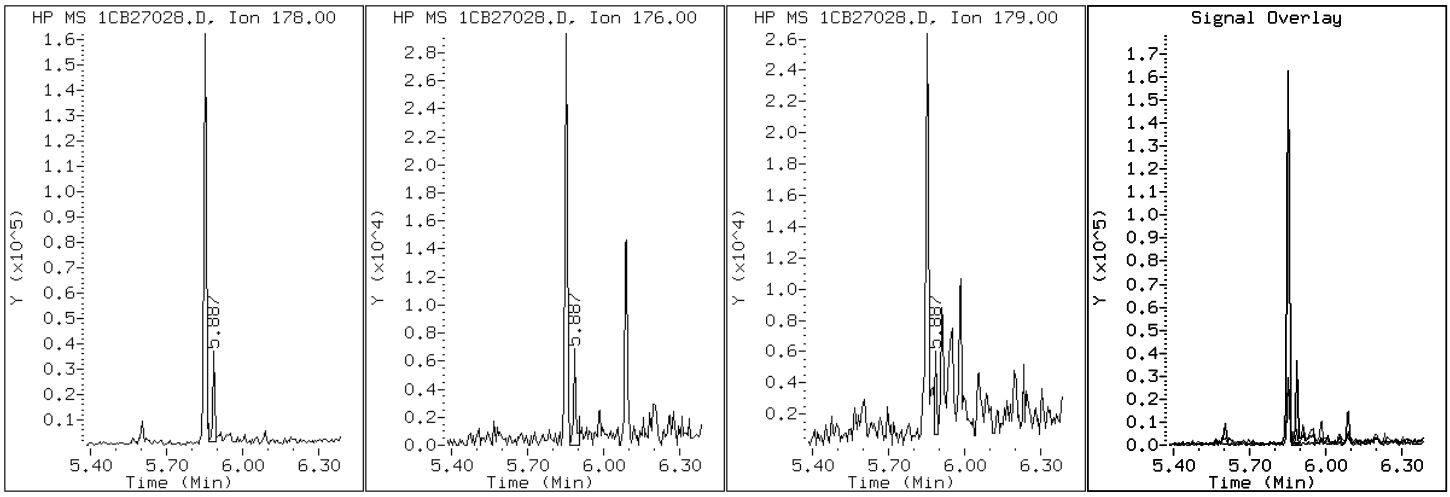
Data File: 1CB27028.D

Date: 27-FEB-2013 20:13

Client ID: FM0161MMMM-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-44-a Operator: SCC

12 Anthracene



Data File: 1CB27028.D

Date: 27-FEB-2013 20:13

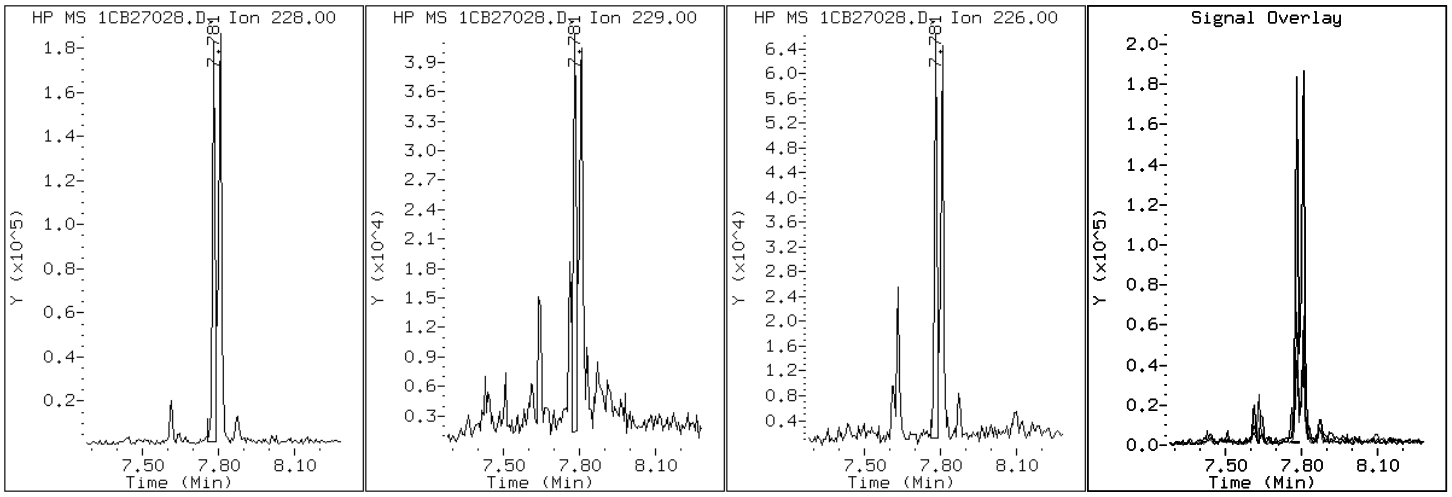
Client ID: FM0161MMMM-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-44-a

Operator: SCC

17 Benzo(a)anthracene



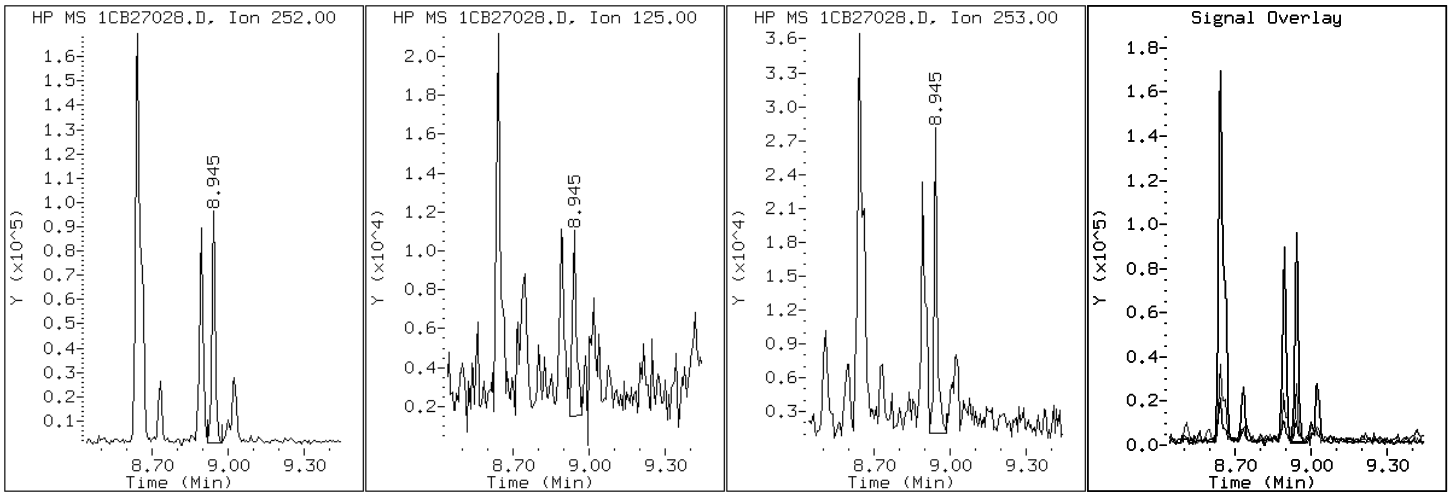
Data File: 1CB27028.D

Date: 27-FEB-2013 20:13

Client ID: FM0161MMMM-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-44-a Operator: SCC

22 Benzo(a)pyrene



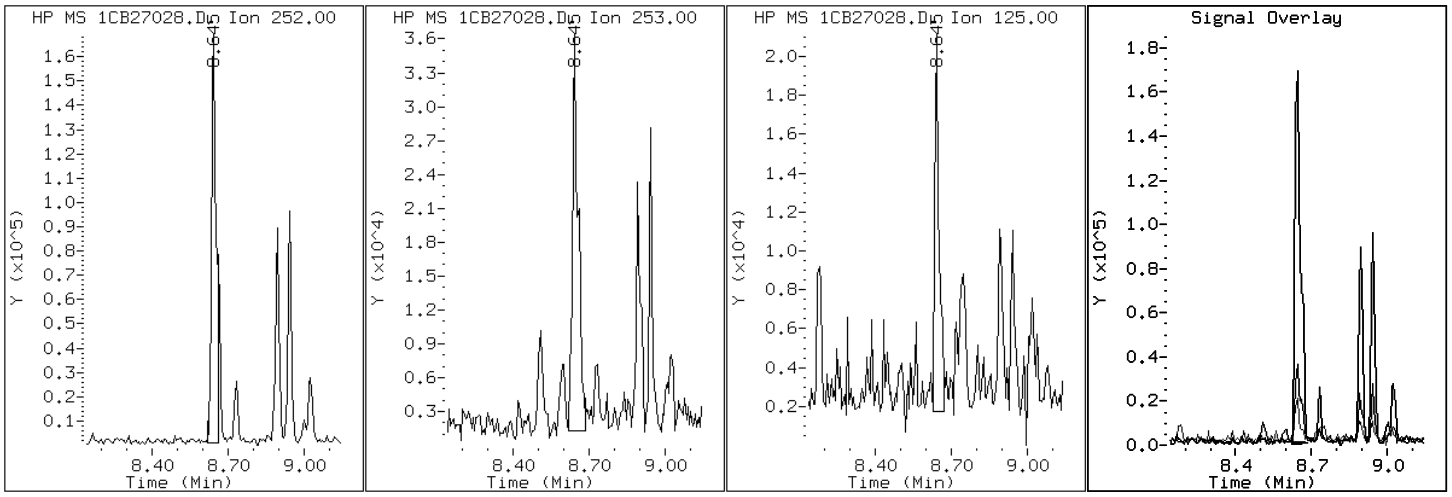
Data File: 1CB27028.D

Date: 27-FEB-2013 20:13

Client ID: FM0161MMMM-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-44-a Operator: SCC

20 Benzo(b)fluoranthene



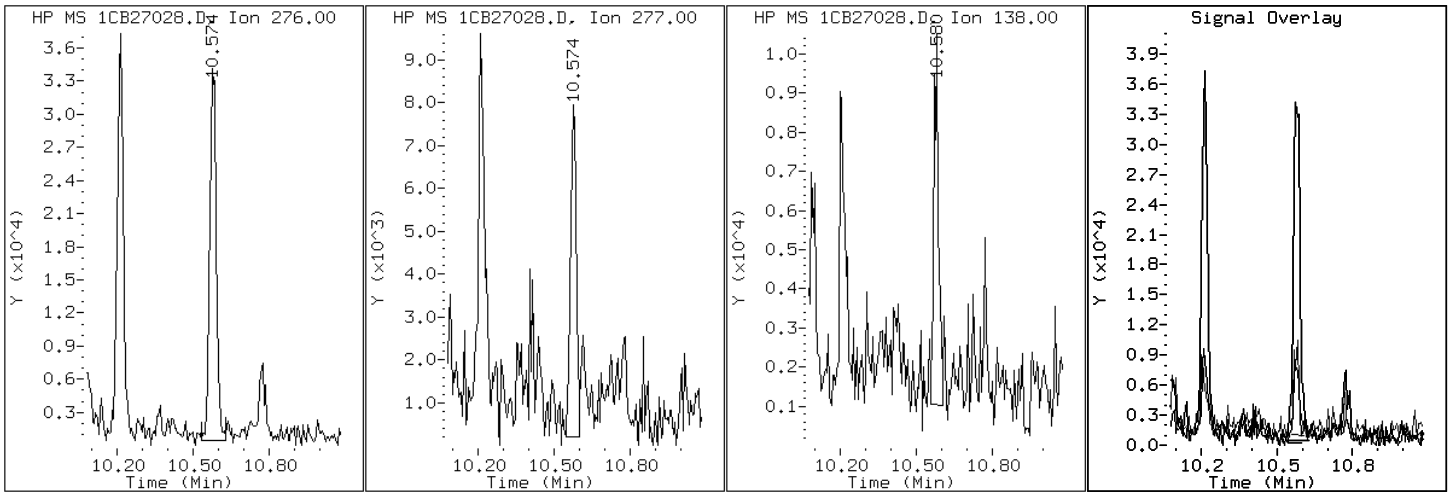
Data File: 1CB27028.D

Date: 27-FEB-2013 20:13

Client ID: FM0161MMMM-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-44-a Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CB27028.D

Date: 27-FEB-2013 20:13

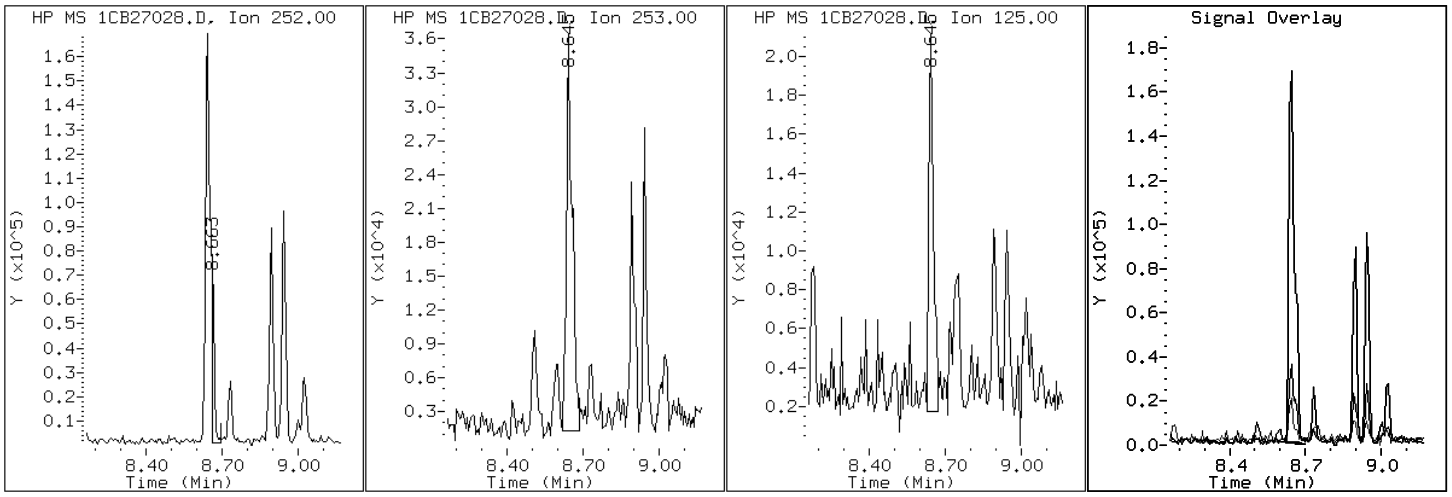
Client ID: FM0161MMMM-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-44-a

Operator: SCC

21 Benzo(k)fluoranthene



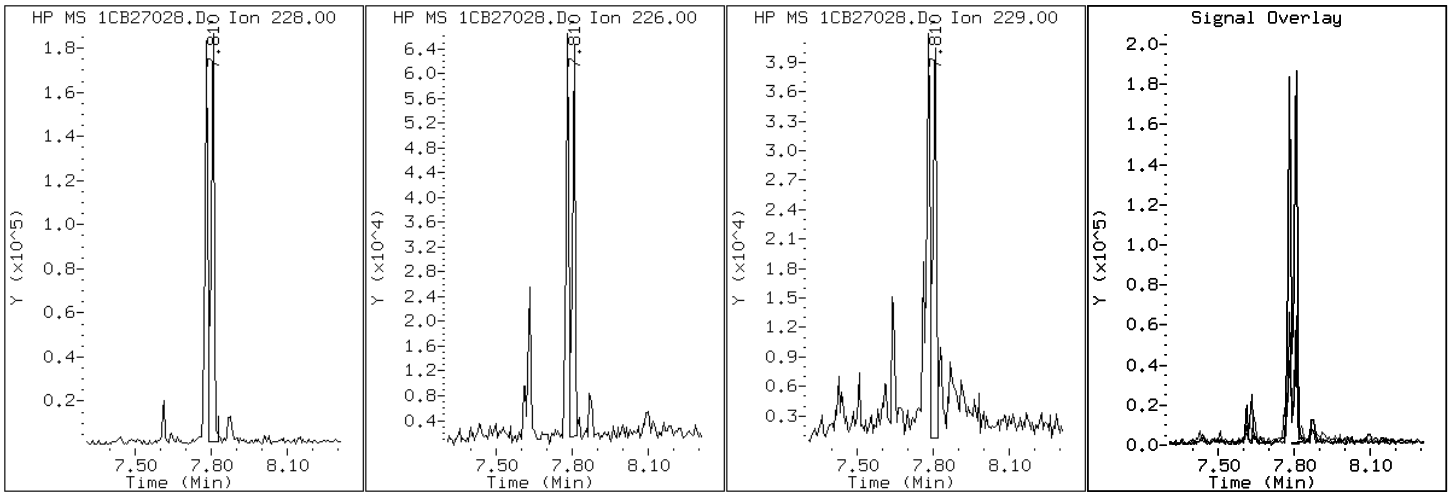
Data File: 1CB27028.D

Date: 27-FEB-2013 20:13

Client ID: FM0161MMMM-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-44-a Operator: SCC

19 Chrysene



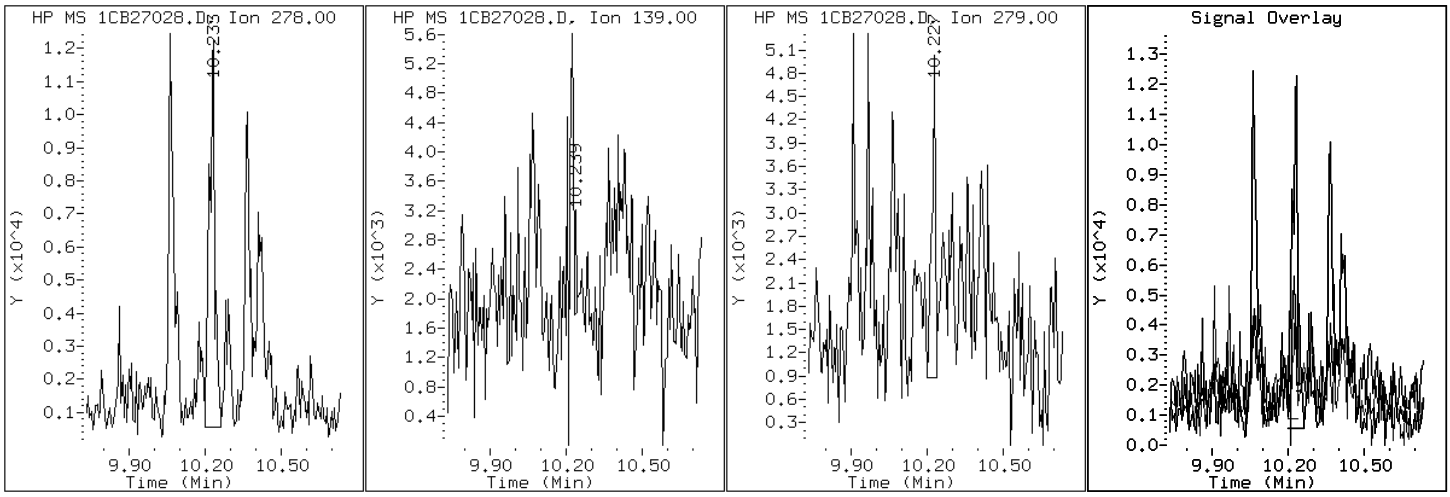
Data File: 1CB27028.D

Date: 27-FEB-2013 20:13

Client ID: FM0161MMMM-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-44-a Operator: SCC

25 Dibenzo(a,h)anthracene



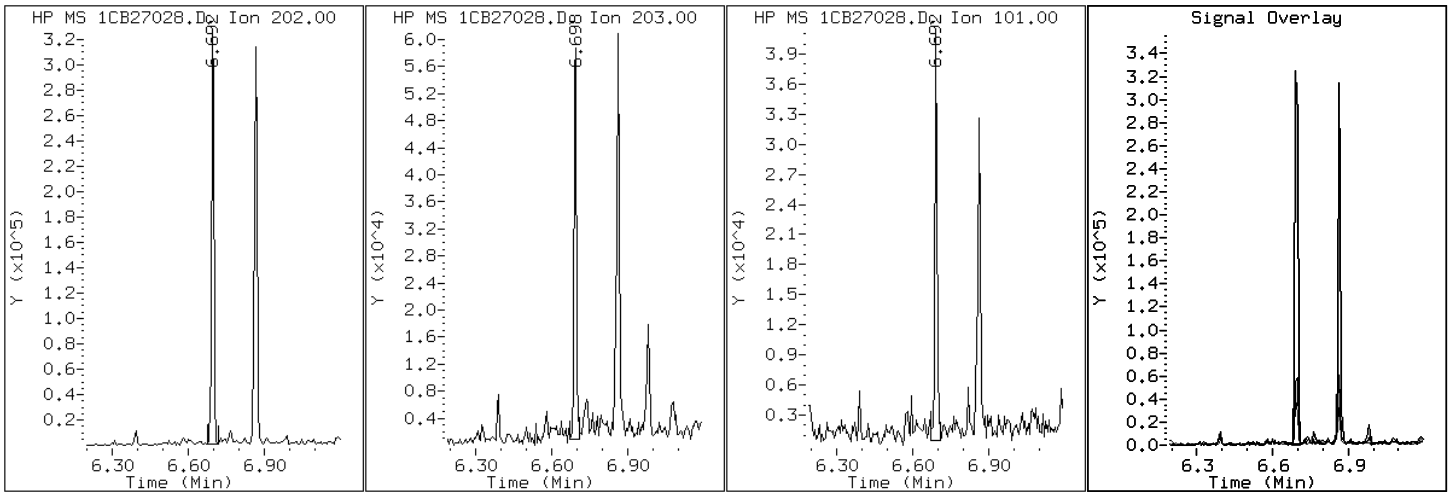
Data File: 1CB27028.D

Date: 27-FEB-2013 20:13

Client ID: FM0161MMMM-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-44-a Operator: SCC

15 Fluoranthene



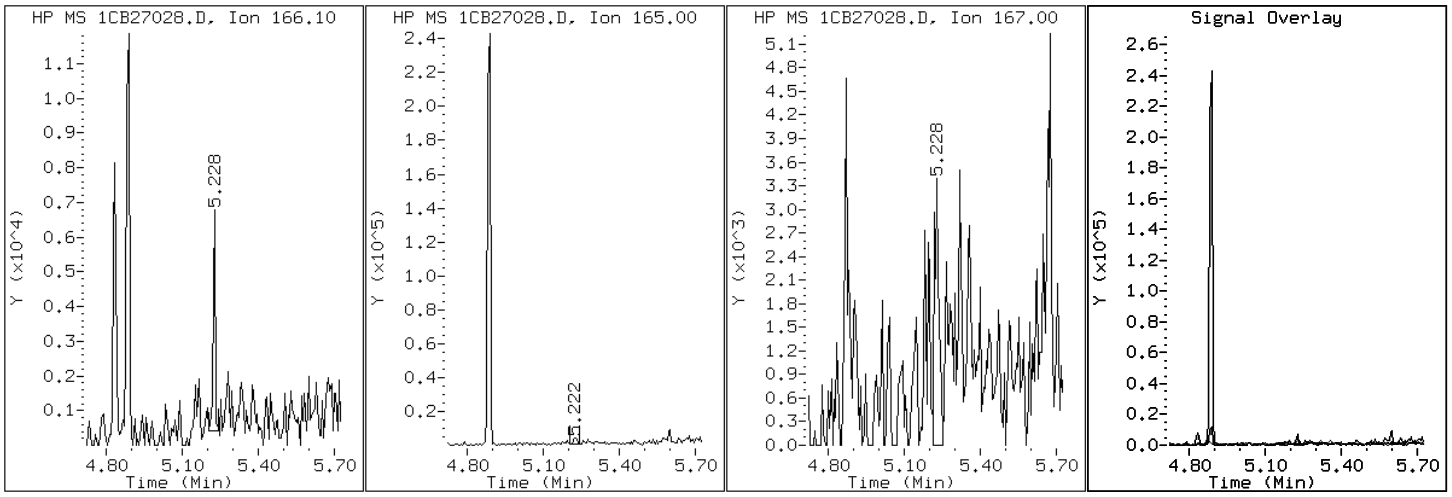
Data File: 1CB27028.D

Date: 27-FEB-2013 20:13

Client ID: FM0161MMMM-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-44-a Operator: SCC

9 Fluorene



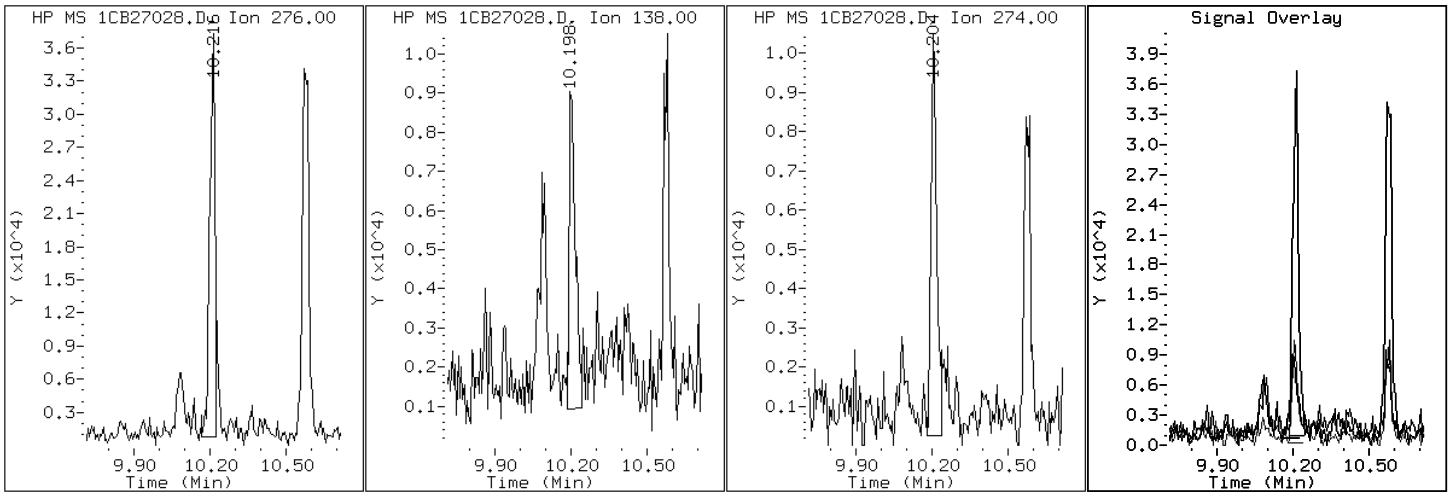
Data File: 1CB27028.D

Date: 27-FEB-2013 20:13

Client ID: FM0161MMMM-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-44-a Operator: SCC

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



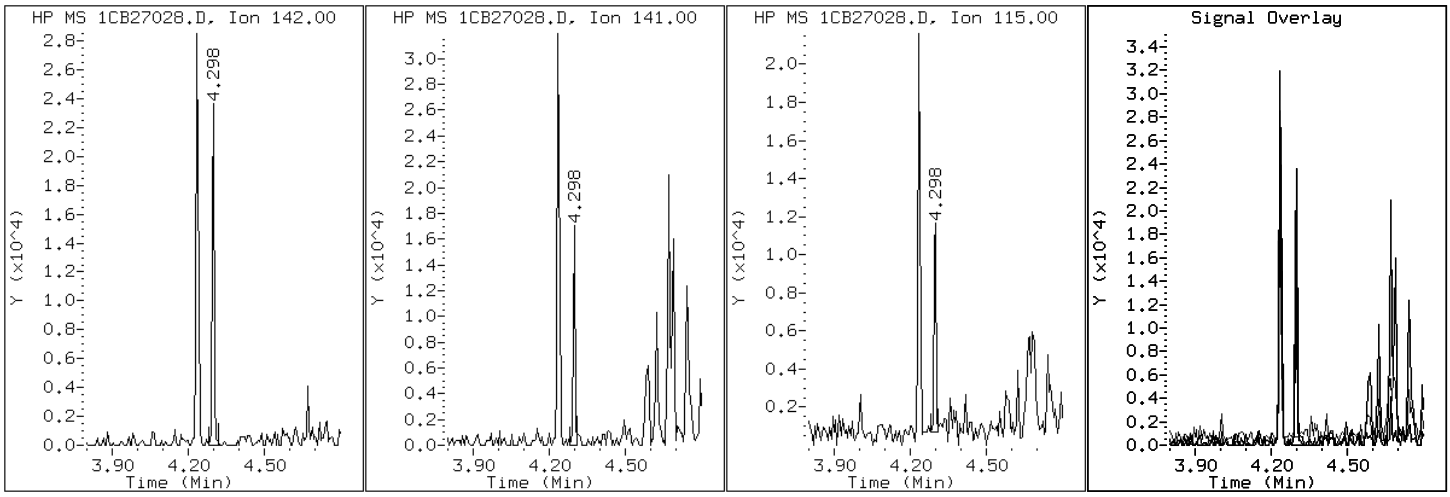
Data File: 1CB27028.D

Date: 27-FEB-2013 20:13

Client ID: FM0161MMMM-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-44-a Operator: SCC

4 1-Methylnaphthalene



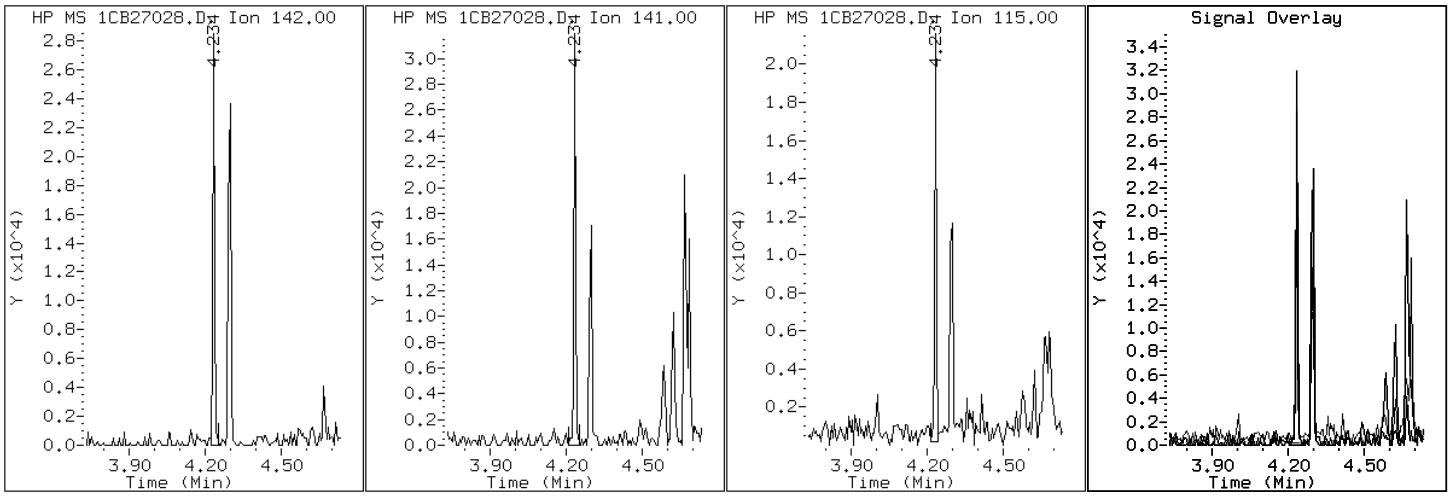
Data File: 1CB27028.D

Date: 27-FEB-2013 20:13

Client ID: FM0161MMMM-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-44-a Operator: SCC

3 2-Methylnaphthalene



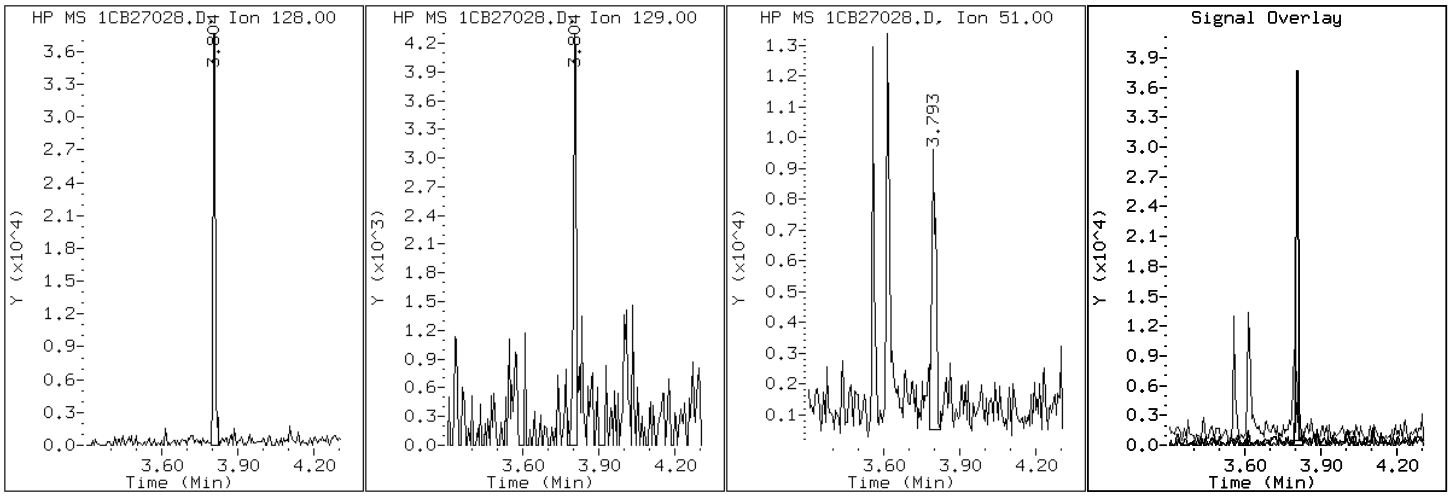
Data File: 1CB27028.D

Date: 27-FEB-2013 20:13

Client ID: FM0161MMMM-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-44-a Operator: SCC

2 Naphthalene



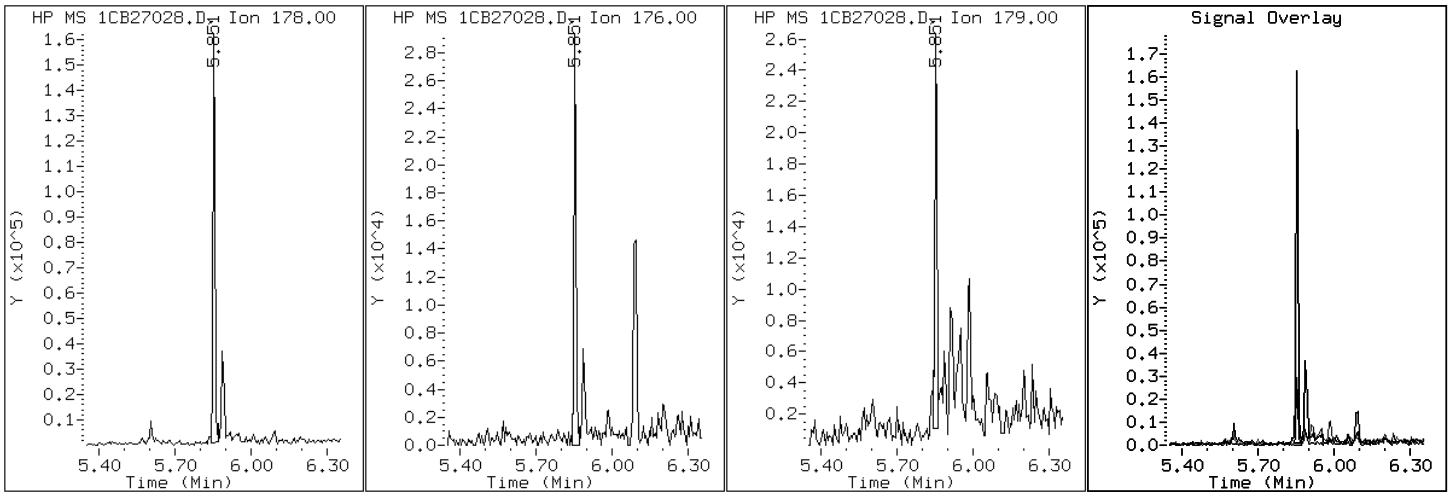
Data File: 1CB27028.D

Date: 27-FEB-2013 20:13

Client ID: FM0161MMMM-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-44-a Operator: SCC

11 Phenanthrene



Data File: 1CB27028.D

Date: 27-FEB-2013 20:13

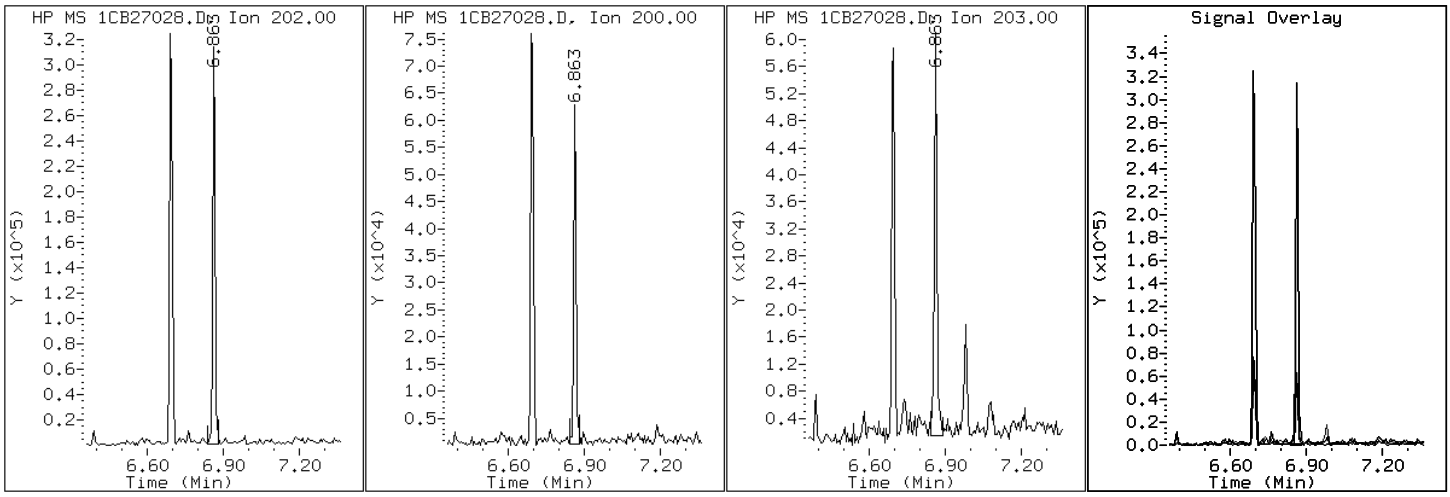
Client ID: FM0161MMMM-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-44-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB27028.D
Inj. Date and Time: 27-FEB-2013 20:13
Instrument ID: BSMC5973.i
Client ID: FM0161MMMM-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/01/2013

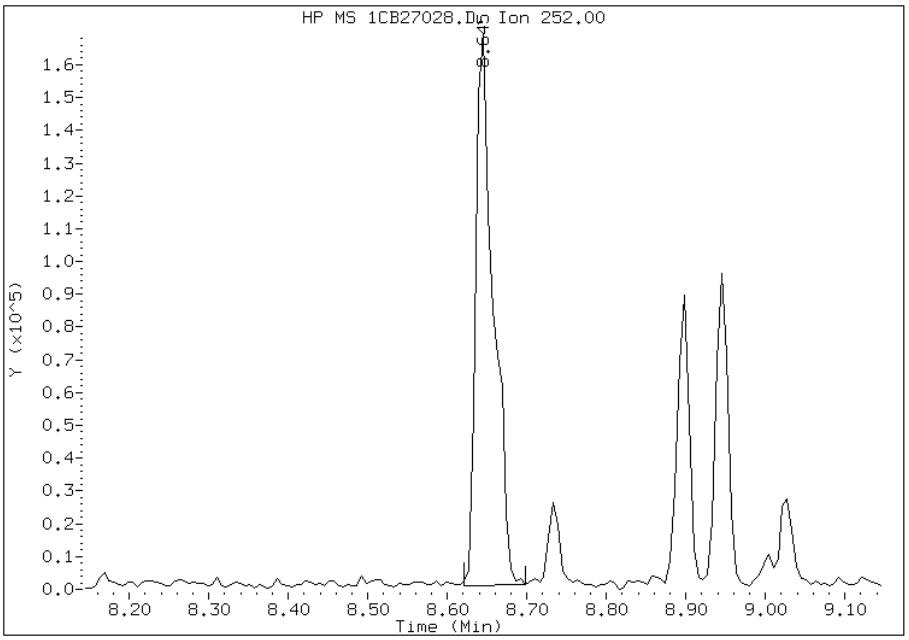
Processing Integration Results

RT: 8.65

Response: 258762

Amount: 4

Conc: 349



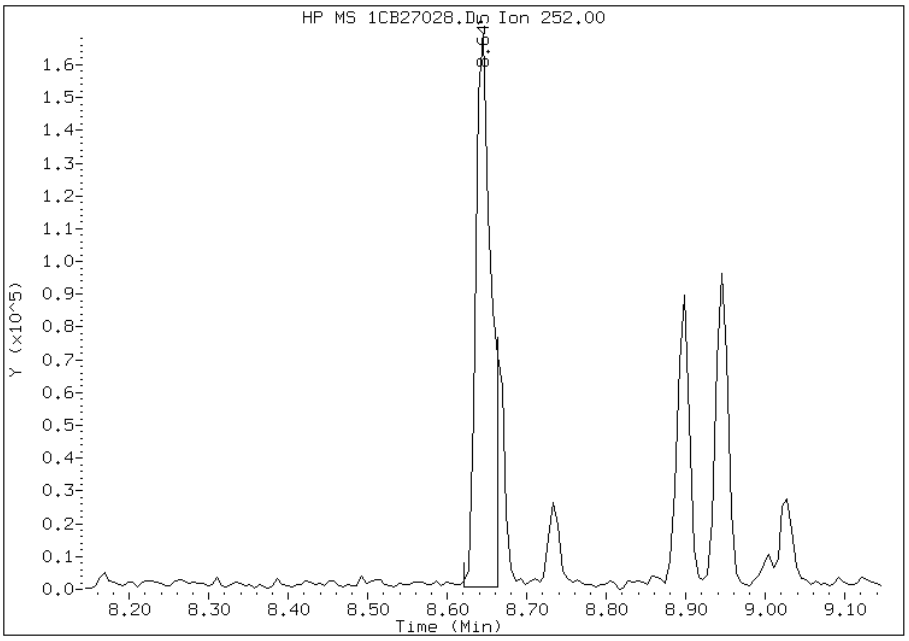
Manual Integration Results

RT: 8.65

Response: 228288

Amount: 4

Conc: 308



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:37
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB27028.D
Inj. Date and Time: 27-FEB-2013 20:13
Instrument ID: BSMC5973.i
Client ID: FM0161MMMM-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/01/2013

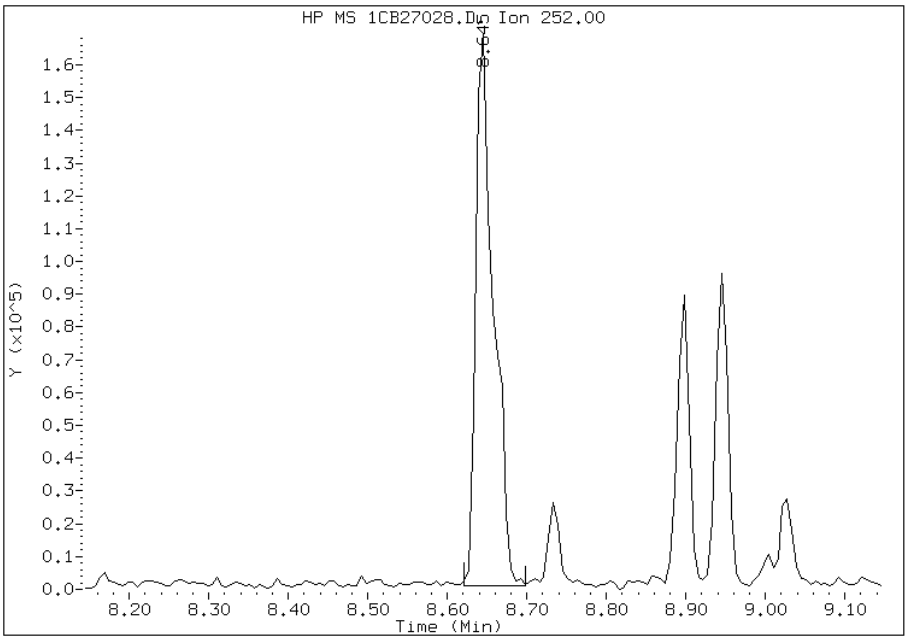
Processing Integration Results

RT: 8.65

Response: 260382

Amount: 4

Conc: 343



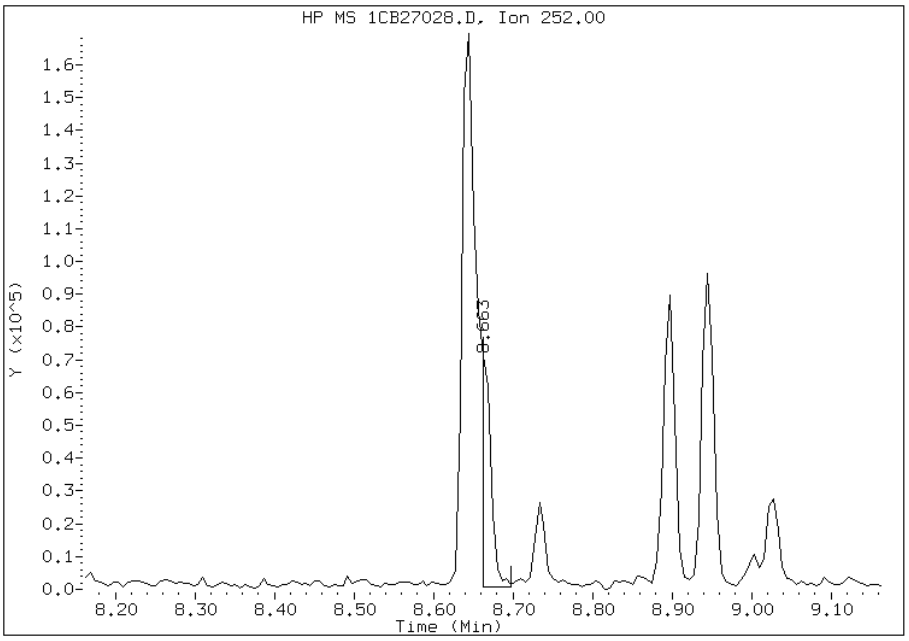
Manual Integration Results

RT: 8.66

Response: 57695

Amount: 1

Conc: 76



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB27028.D
Inj. Date and Time: 27-FEB-2013 20:13
Instrument ID: BSMC5973.i
Client ID: FM0161MMMM-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/01/2013

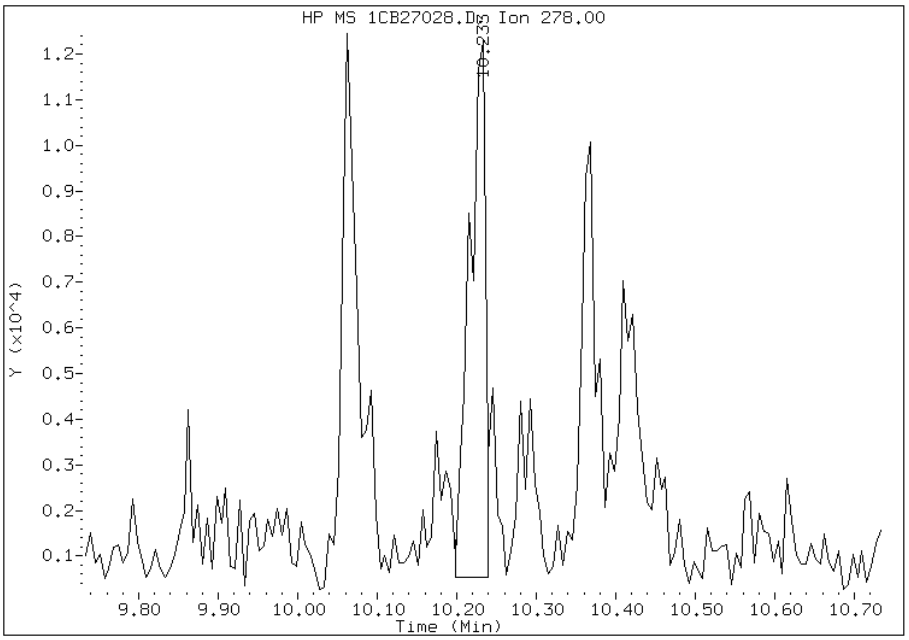
Processing Integration Results

RT: 10.23

Response: 16626

Amount: 0

Conc: 25



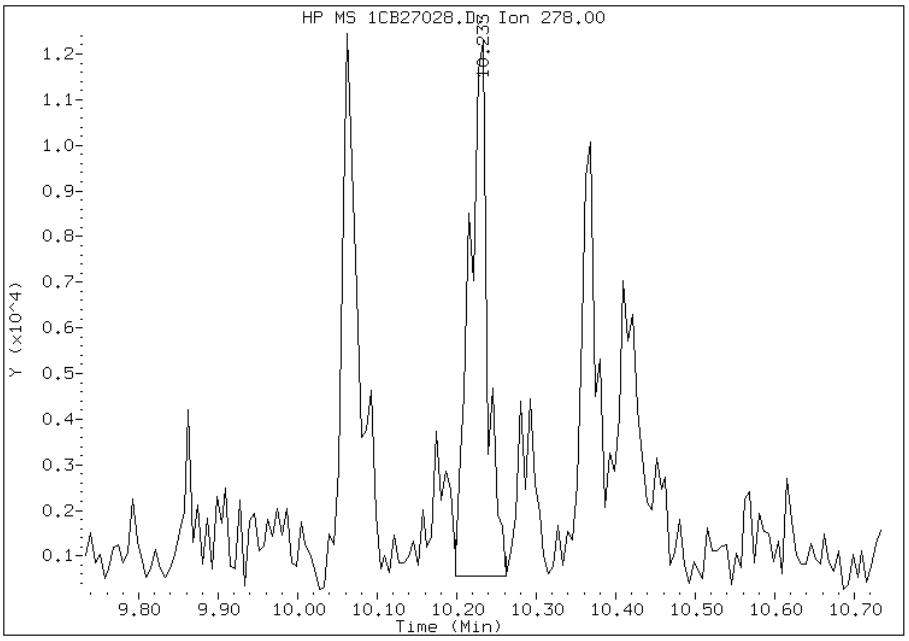
Manual Integration Results

RT: 10.23

Response: 18863

Amount: 0

Conc: 28



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB27028.D
Inj. Date and Time: 27-FEB-2013 20:13
Instrument ID: BSMC5973.i
Client ID: FM0161MMMM-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/01/2013

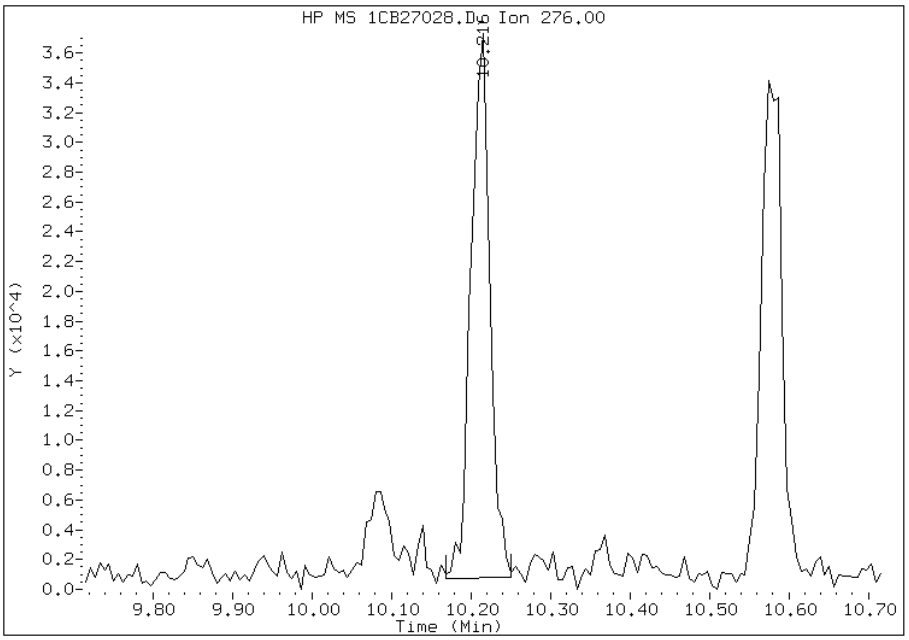
Processing Integration Results

RT: 10.22

Response: 60198

Amount: 1

Conc: 89



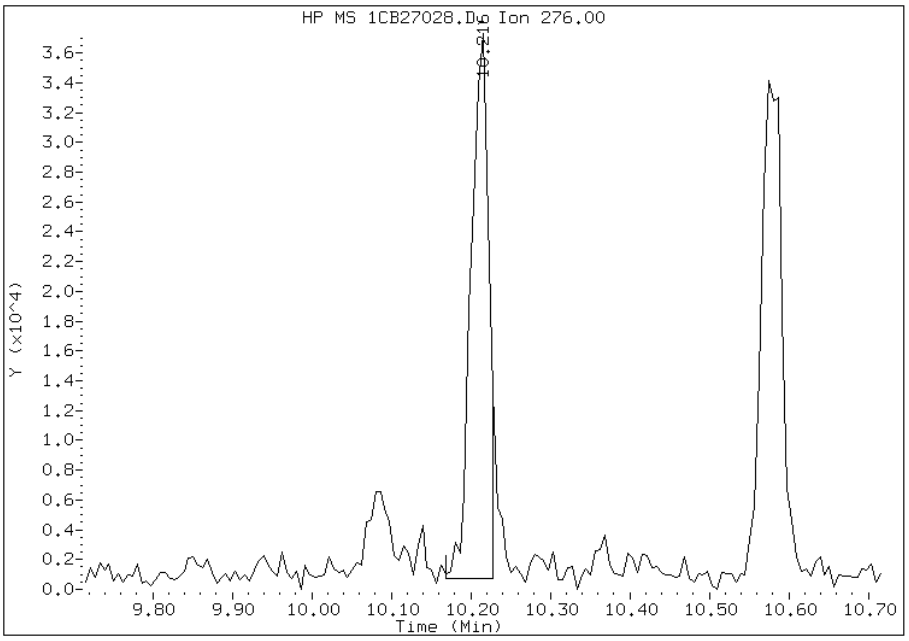
Manual Integration Results

RT: 10.22

Response: 56522

Amount: 1

Conc: 84



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:38
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87655-3

SDG No.: 68087655-3

Client Sample ID: FM0161NNNN-CS | Lab Sample ID: 680-87655-45

Matrix: Solid | Lab File ID: 1CB27029.D

Analysis Method: 8270C LL | Date Collected: 02/19/2013 13:38

Extract. Method: 3546 | Date Extracted: 02/25/2013 14:06

Sample wt/vol: 15.01(g) | Date Analyzed: 02/27/2013 20:32

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

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

% Moisture: 24.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134903 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	14	J	53	6.6
120-12-7	Anthracene	14		11	5.5
56-55-3	Benzo[a]anthracene	76		11	5.1
50-32-8	Benzo[a]pyrene	69		14	6.9
205-99-2	Benzo[b]fluoranthene	140		16	8.0
191-24-2	Benzo[g,h,i]perylene	55		26	5.8
207-08-9	Benzo[k]fluoranthene	34		11	4.7
218-01-9	Chrysene	100		12	5.9
53-70-3	Dibenz(a,h)anthracene	15	J	26	5.4
206-44-0	Fluoranthene	130		26	5.3
86-73-7	Fluorene	9.9	J	26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	42		26	9.4
90-12-0	1-Methylnaphthalene	74		53	5.8
91-57-6	2-Methylnaphthalene	76		53	9.4
91-20-3	Naphthalene	82		53	5.8
85-01-8	Phenanthrene	110		11	5.1
129-00-0	Pyrene	120		26	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	74		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\1CB27029.D
Lab Smp Id: 680-87655-A-45-A Client Smp ID: FM0161NNNN-CS
Inj Date : 27-FEB-2013 20:32
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87655-a-45-a
Misc Info : 680-87655-A-45-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\a-bFASTPAHi-m.m
Meth Date : 27-Feb-2013 16:31 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

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	24.235	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.792	3.792	(1.000)	1781718	40.0000	
* 6 Acenaphthene-d10	164	4.886	4.880	(1.000)	1425005	40.0000	
* 10 Phenanthrene-d10	188	5.839	5.839	(1.000)	2598829	40.0000	
$ 14 o-Terphenyl	230	6.092	6.092	(1.043)	292020	7.44230	654.4241
* 18 Chrysene-d12	240	7.792	7.792	(1.000)	2798312	40.0000	
* 23 Perylene-d12	264	9.004	9.004	(1.000)	2578351	40.0000	
2 Naphthalene	128	3.810	3.804	(1.005)	43492	0.93763	82.4490
3 2-Methylnaphthalene	142	4.233	4.233	(1.116)	26617	0.86026	75.6451
4 1-Methylnaphthalene	142	4.298	4.298	(1.133)	23849	0.84632	74.4196
5 Acenaphthylene	152	4.798	4.798	(0.982)	9282	0.16156	14.2066
9 Fluorene	166	5.221	5.221	(1.069)	5077	0.11242	9.8854(Q)
11 Phenanthrene	178	5.851	5.851	(1.002)	94806	1.26161	110.9375
12 Anthracene	178	5.886	5.886	(1.008)	12065	0.16417	14.4355
13 Carbazole	167	5.998	5.992	(1.027)	9656	0.14780	12.9967(Q)
15 Fluoranthene	202	6.692	6.698	(1.146)	125063	1.51970	133.6316

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.862	6.863	(0.881)	99209	1.31926	116.0064
17 Benzo(a)anthracene	228	7.780	7.780	(0.998)	69812	0.86439	76.0082
19 Chrysene	228	7.809	7.810	(1.002)	95954	1.18718	104.3921
20 Benzo(b)fluoranthene	252	8.645	8.645	(0.960)	104572	1.55193	136.4660
21 Benzo(k)fluoranthene	252	8.662	8.668	(0.962)	26768	0.38725	34.0520(QM)
22 Benzo(a)pyrene	252	8.945	8.945	(0.993)	51169	0.78180	68.7464
24 Indeno(1,2,3-cd)pyrene	276	10.215	10.215	(1.135)	29737	0.48298	42.4699(M)
25 Dibenzo(a,h)anthracene	278	10.227	10.233	(1.136)	10558	0.17531	15.4157(M)
26 Benzo(g,h,i)perylene	276	10.574	10.580	(1.174)	40273	0.62529	54.9834(M)

QC Flag Legend

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

Data File: 1CB27029.D

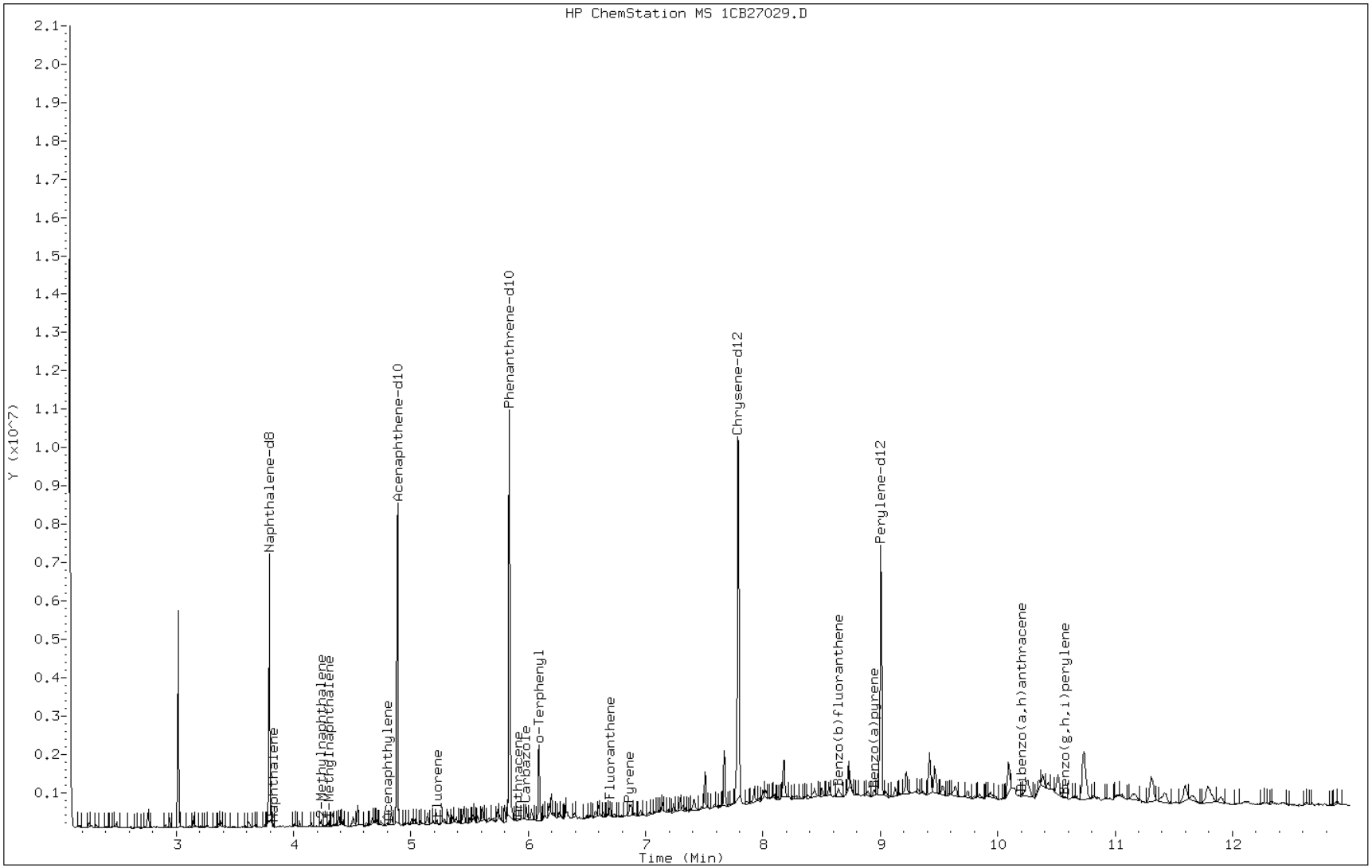
Date: 27-FEB-2013 20:32

Client ID: FM0161NNNN-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-45-a

Operator: SCC



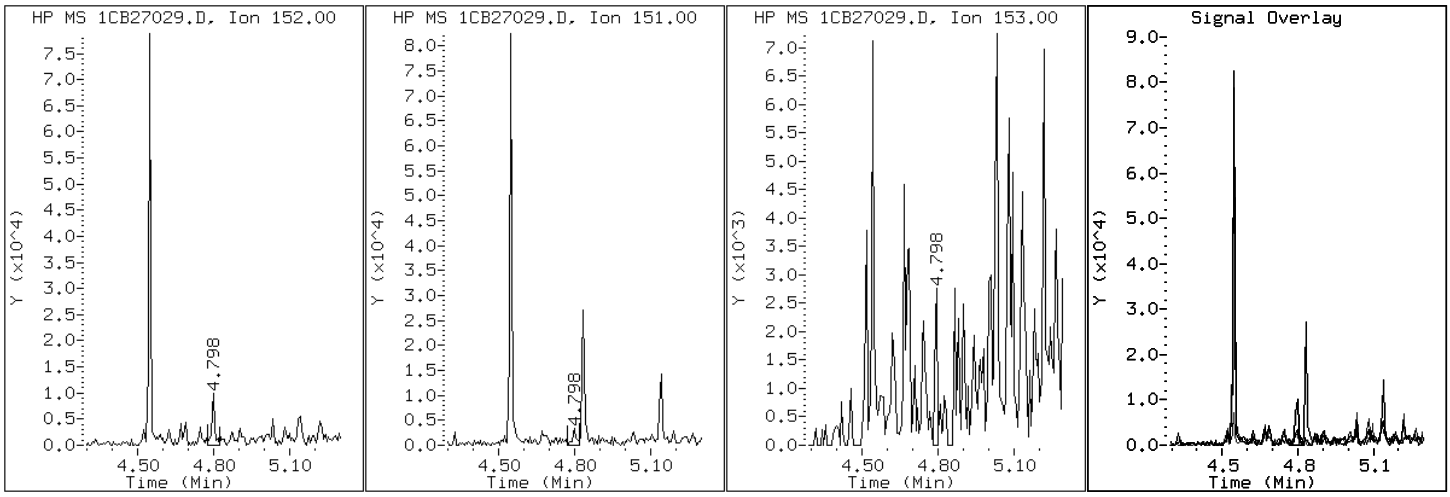
Data File: 1CB27029.D

Date: 27-FEB-2013 20:32

Client ID: FM0161NNNN-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-45-a Operator: SCC

5 Acenaphthylene



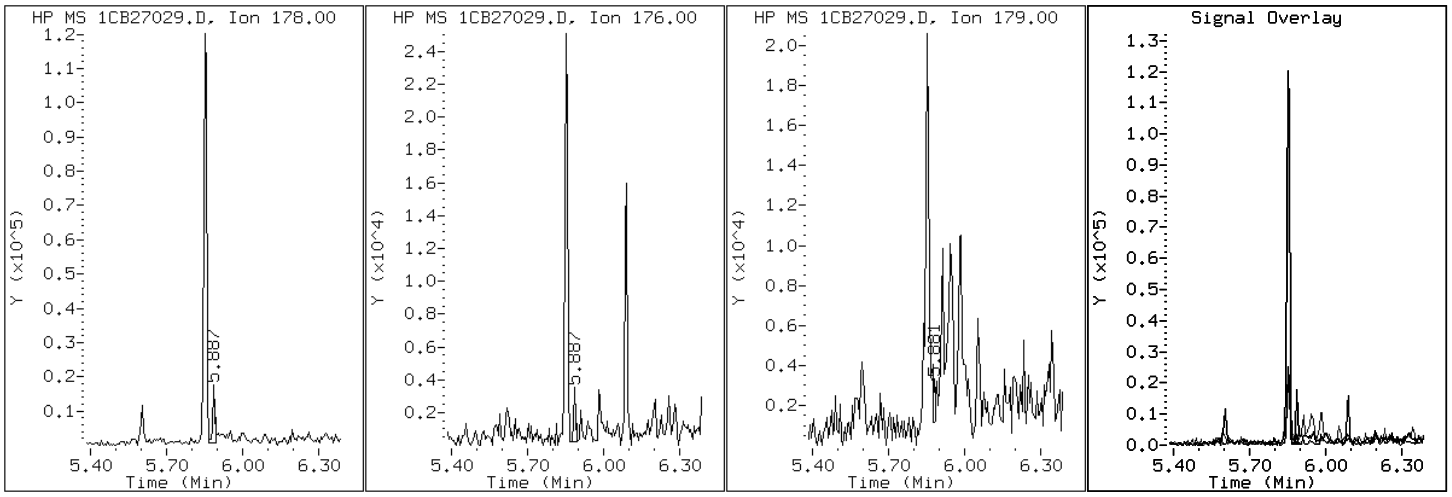
Data File: 1CB27029.D

Date: 27-FEB-2013 20:32

Client ID: FM0161NNNN-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-45-a Operator: SCC

12 Anthracene



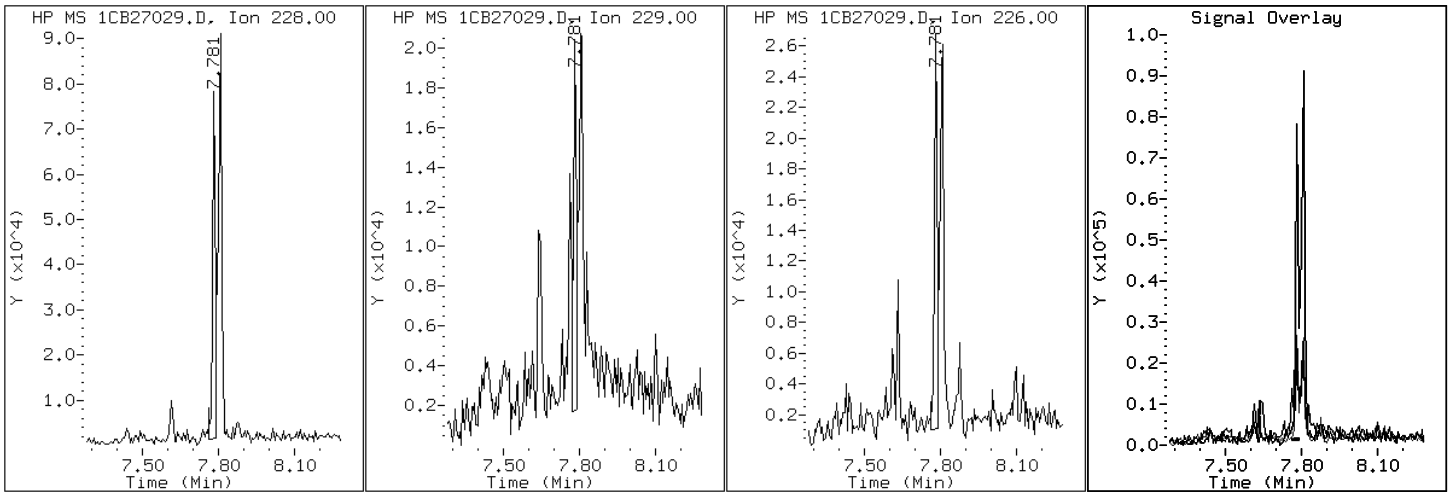
Data File: 1CB27029.D

Date: 27-FEB-2013 20:32

Client ID: FM0161NNNN-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-45-a Operator: SCC

17 Benzo(a)anthracene



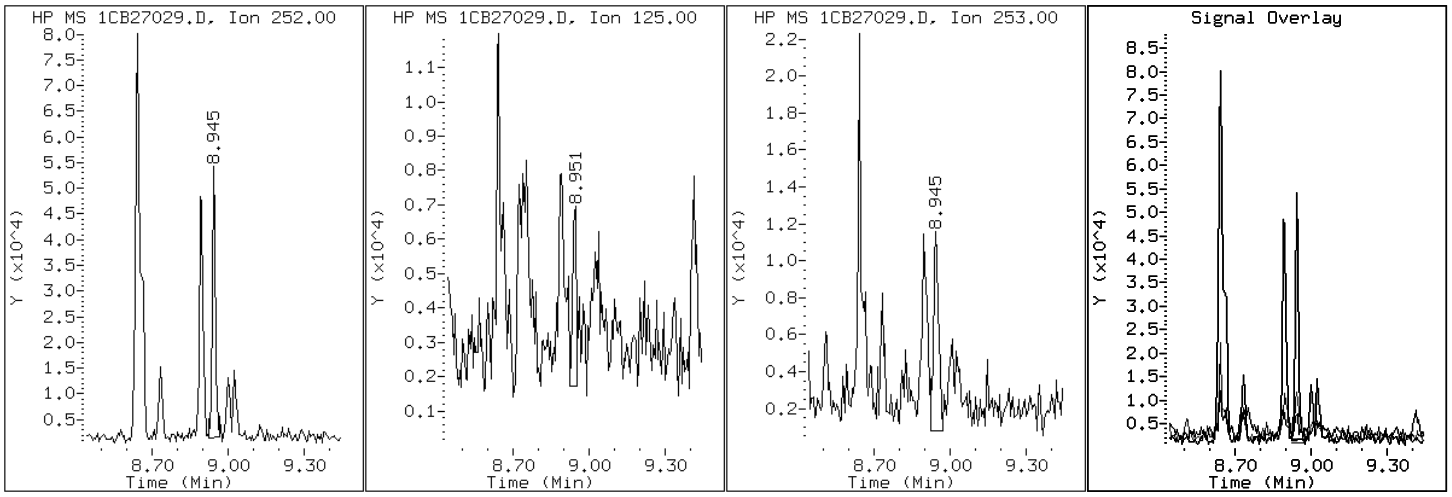
Data File: 1CB27029.D

Date: 27-FEB-2013 20:32

Client ID: FM0161NNNN-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-45-a Operator: SCC

22 Benzo(a)pyrene



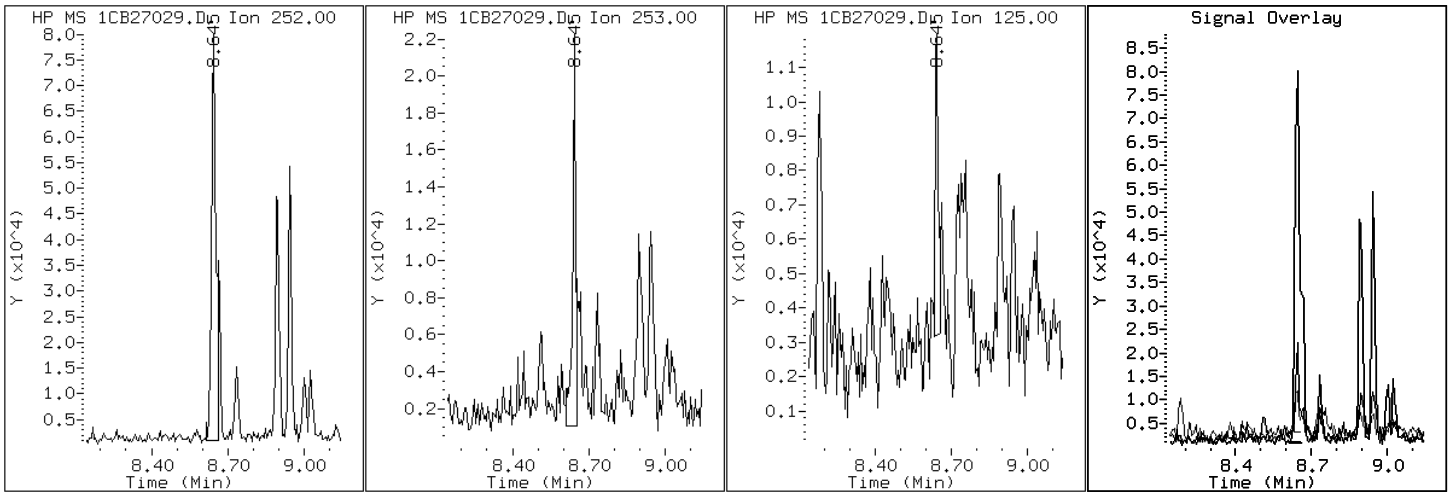
Data File: 1CB27029.D

Date: 27-FEB-2013 20:32

Client ID: FM0161NNNN-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-45-a Operator: SCC

20 Benzo(b)fluoranthene



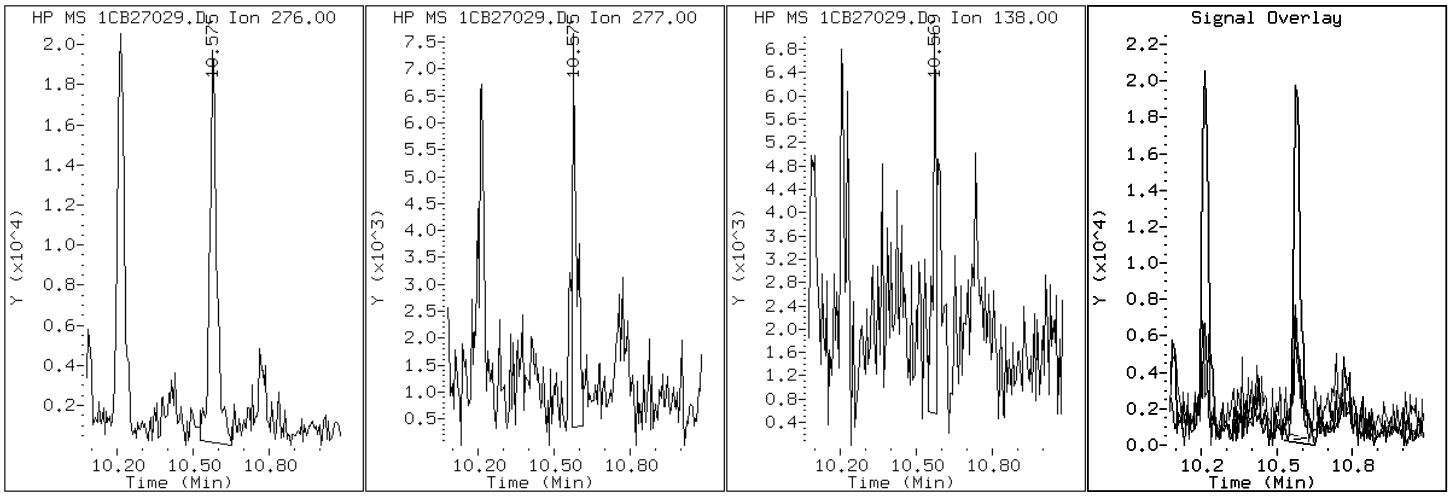
Data File: 1CB27029.D

Date: 27-FEB-2013 20:32

Client ID: FM0161NNNN-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-45-a Operator: SCC

26 Benzo(g,h,i)perylene



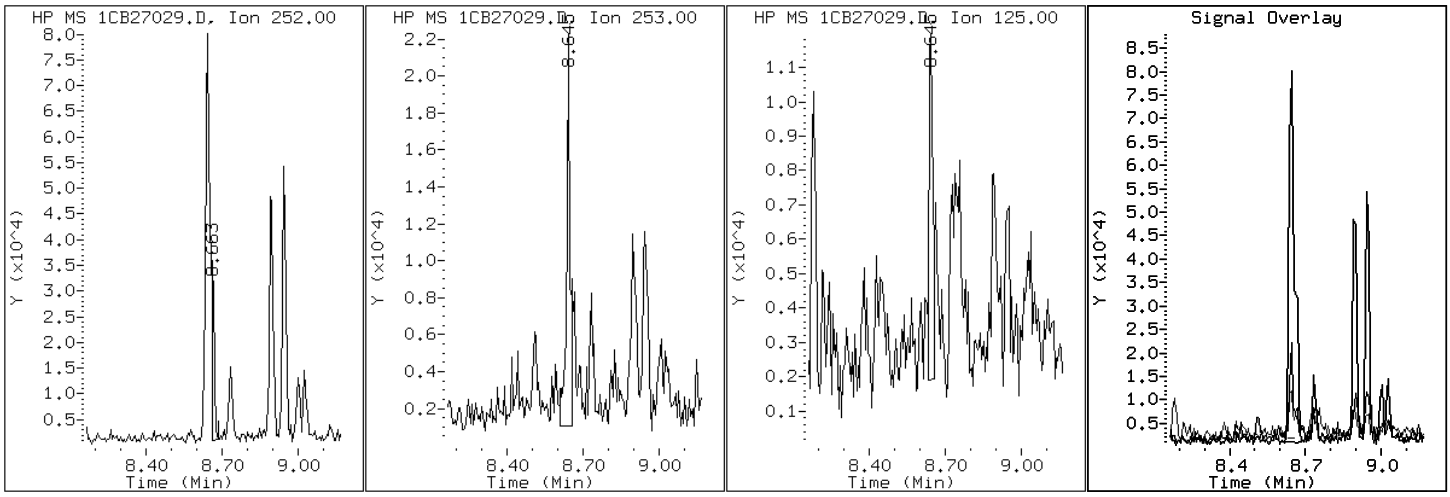
Data File: 1CB27029.D

Date: 27-FEB-2013 20:32

Client ID: FM0161NNNN-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-45-a Operator: SCC

21 Benzo(k)fluoranthene



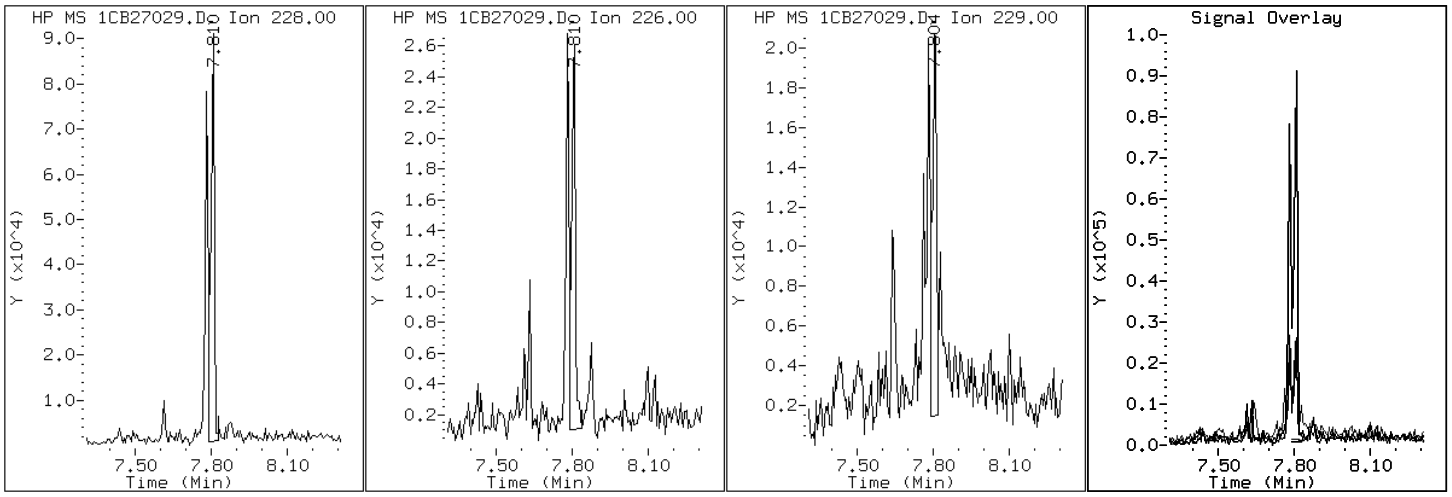
Data File: 1CB27029.D

Date: 27-FEB-2013 20:32

Client ID: FM0161NNNN-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-45-a Operator: SCC

19 Chrysene



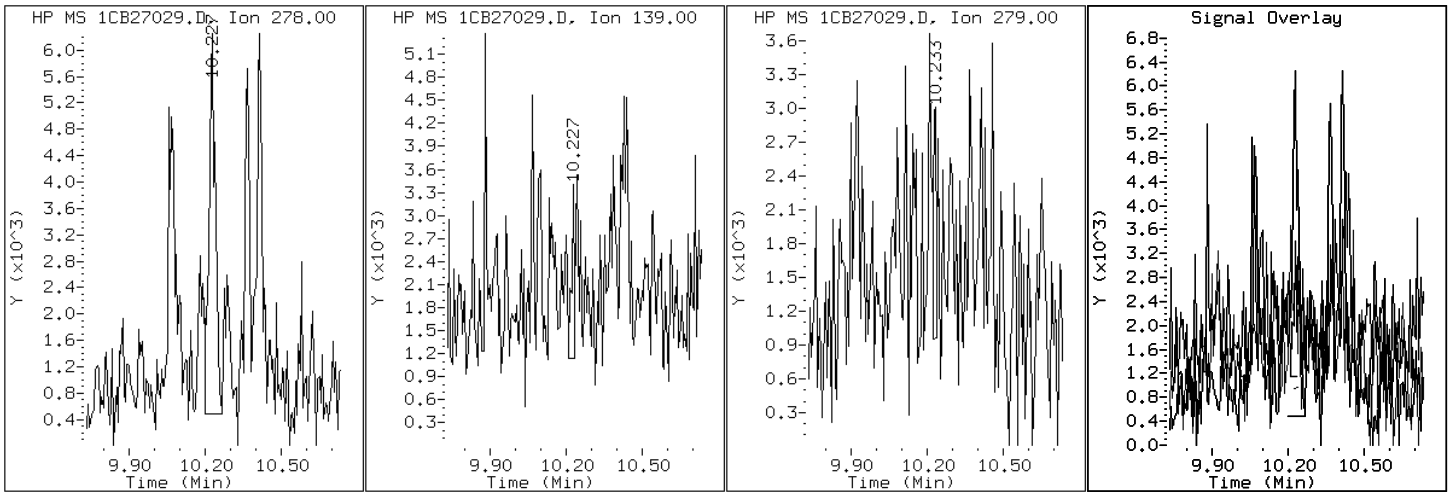
Data File: 1CB27029.D

Date: 27-FEB-2013 20:32

Client ID: FM0161NNNN-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-45-a Operator: SCC

25 Dibenzo(a,h)anthracene



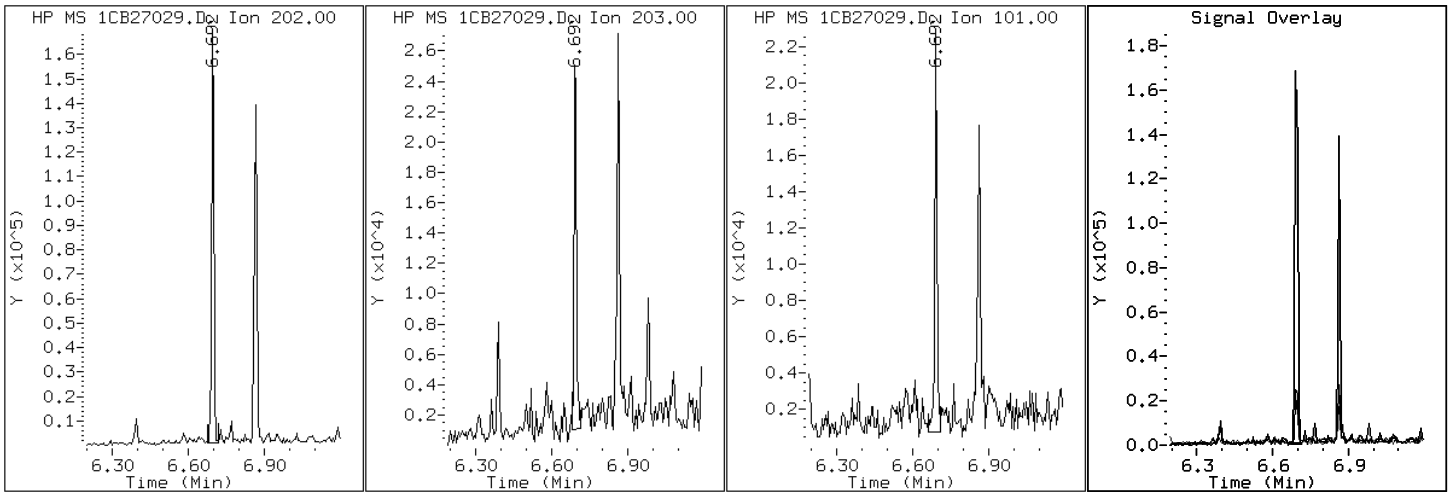
Data File: 1CB27029.D

Date: 27-FEB-2013 20:32

Client ID: FM0161NNNN-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-45-a Operator: SCC

15 Fluoranthene



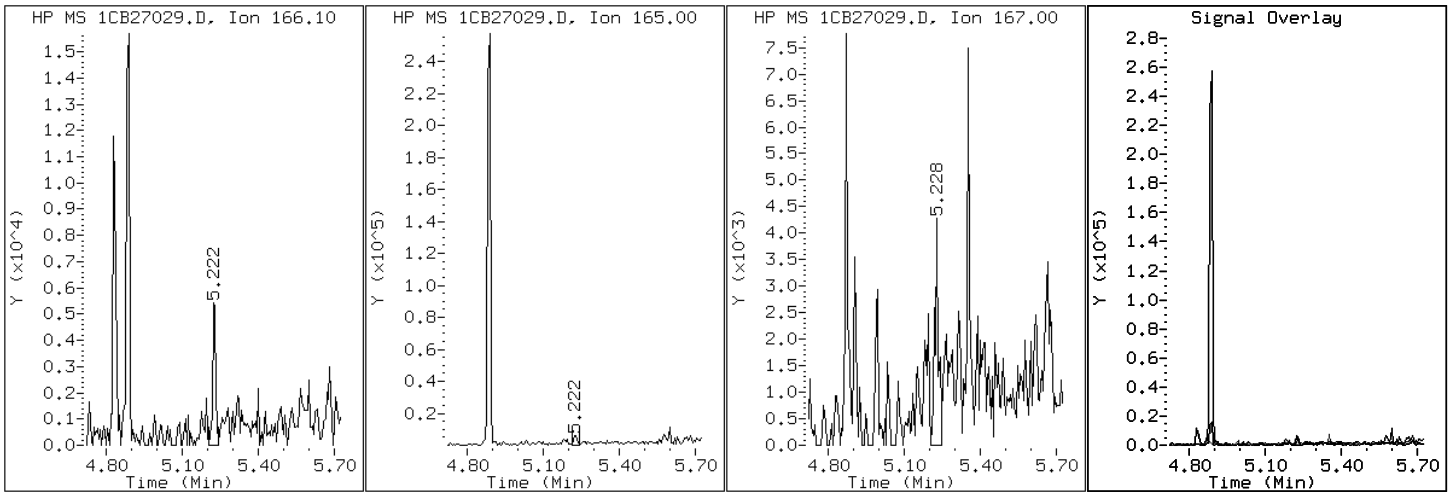
Data File: 1CB27029.D

Date: 27-FEB-2013 20:32

Client ID: FM0161NNNN-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-45-a Operator: SCC

9 Fluorene



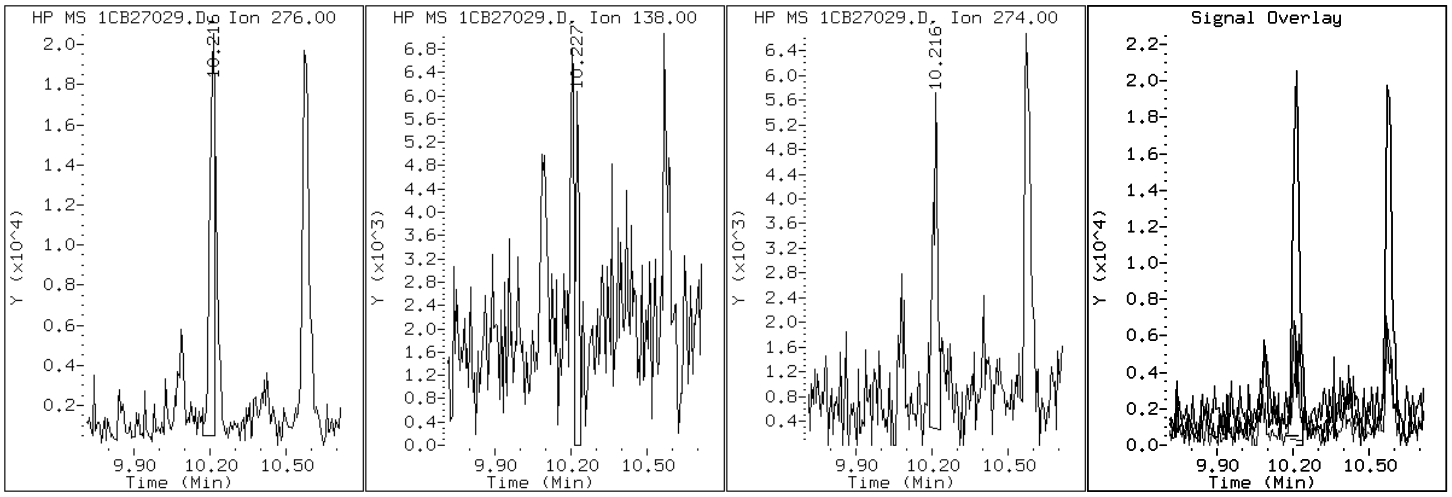
Data File: 1CB27029.D

Date: 27-FEB-2013 20:32

Client ID: FM0161NNNN-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-45-a Operator: SCC

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



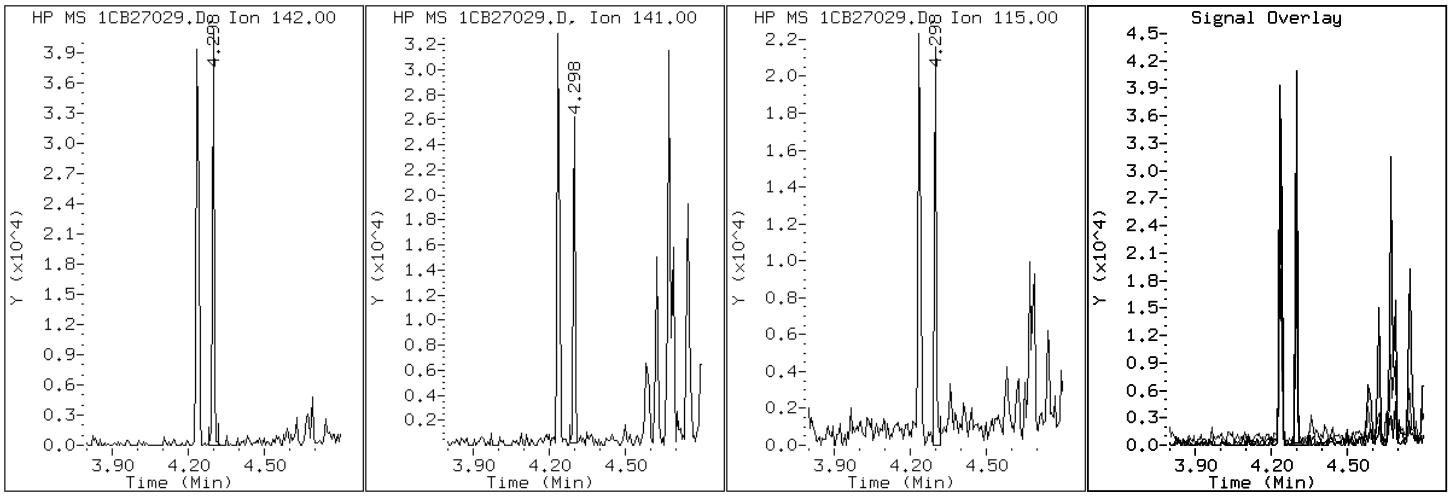
Data File: 1CB27029.D

Date: 27-FEB-2013 20:32

Client ID: FM0161NNNN-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-45-a Operator: SCC

4 1-Methylnaphthalene



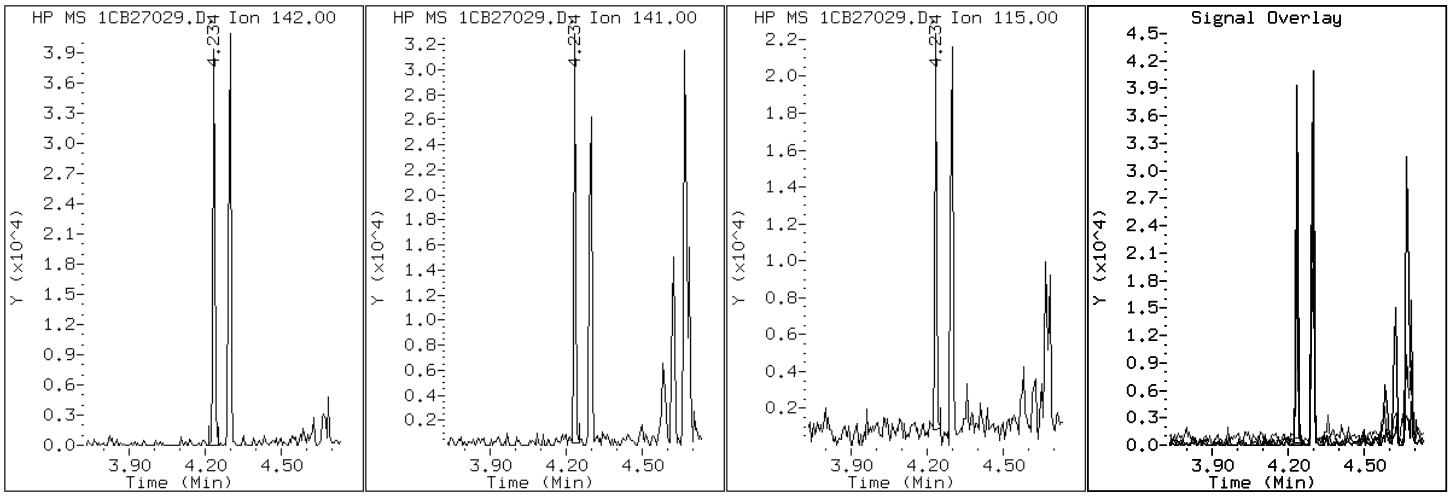
Data File: 1CB27029.D

Date: 27-FEB-2013 20:32

Client ID: FM0161NNNN-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-45-a Operator: SCC

3 2-Methylnaphthalene



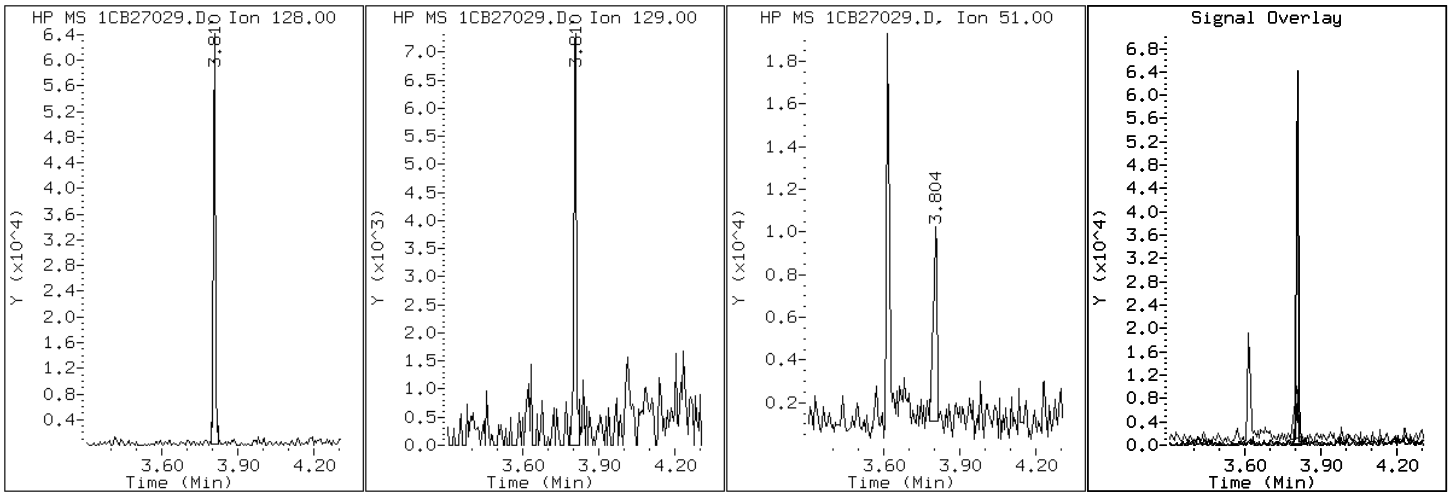
Data File: 1CB27029.D

Date: 27-FEB-2013 20:32

Client ID: FM0161NNNN-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-45-a Operator: SCC

2 Naphthalene



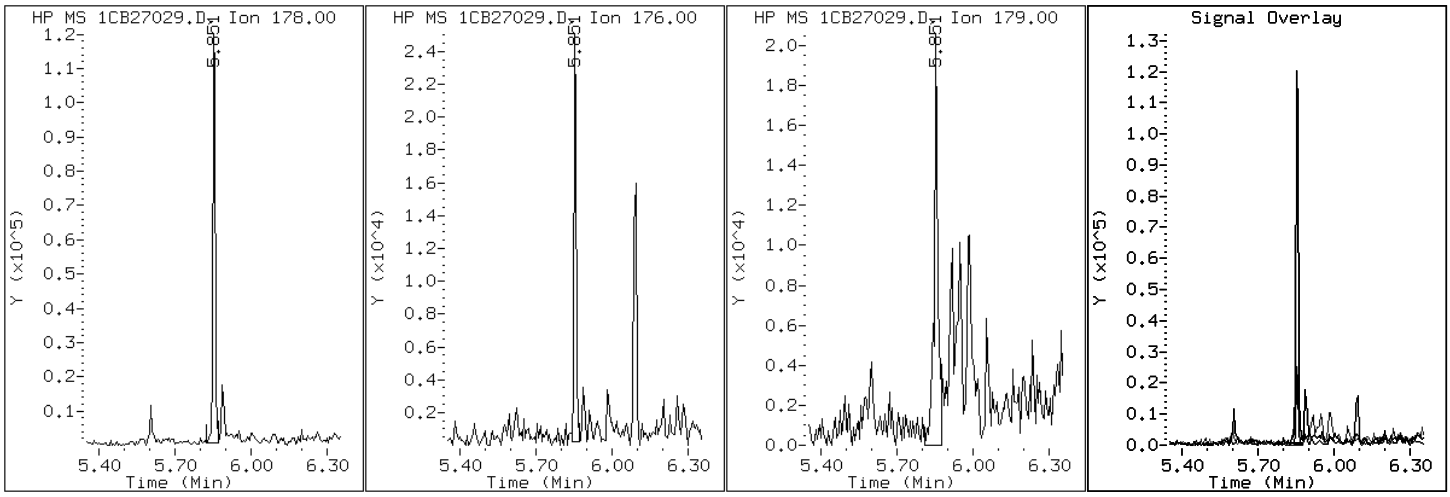
Data File: 1CB27029.D

Date: 27-FEB-2013 20:32

Client ID: FM0161NNNN-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-45-a Operator: SCC

11 Phenanthrene



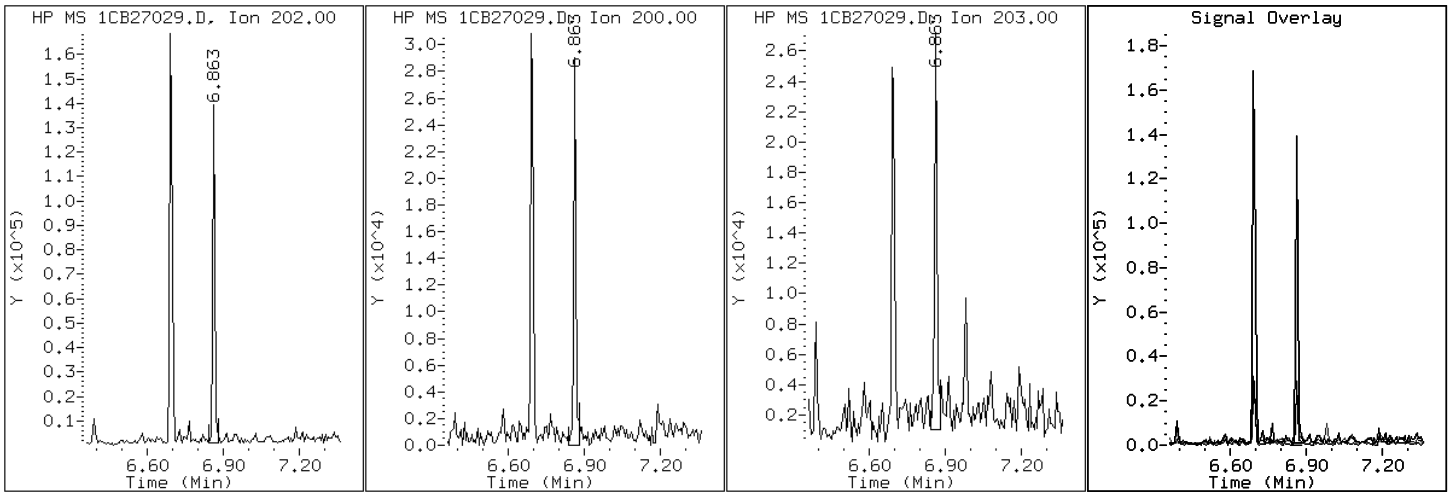
Data File: 1CB27029.D

Date: 27-FEB-2013 20:32

Client ID: FM0161NNNN-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-45-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB27029.D
Inj. Date and Time: 27-FEB-2013 20:32
Instrument ID: BSMC5973.i
Client ID: FM0161NNNN-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/01/2013

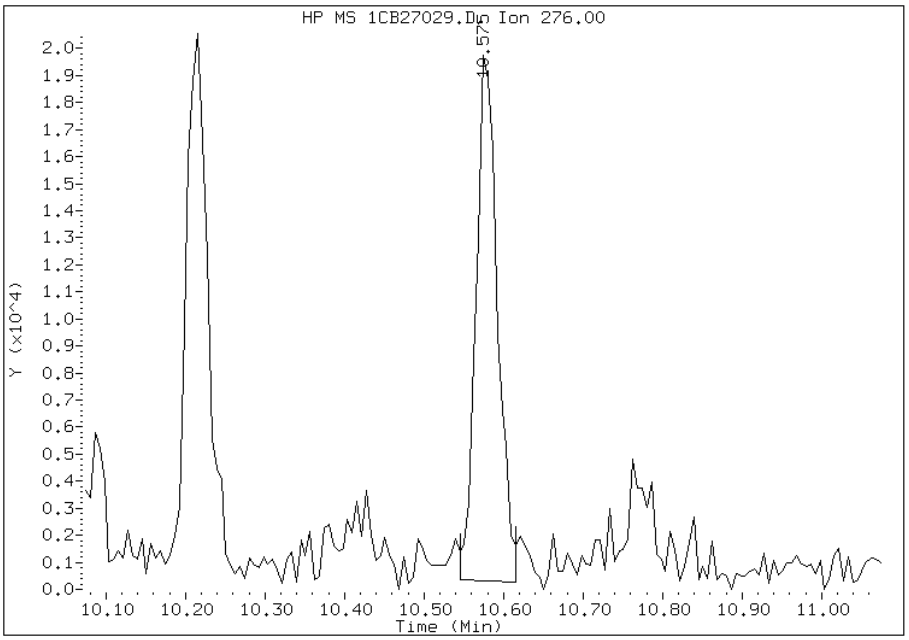
Processing Integration Results

RT: 10.57

Response: 36590

Amount: 1

Conc: 50



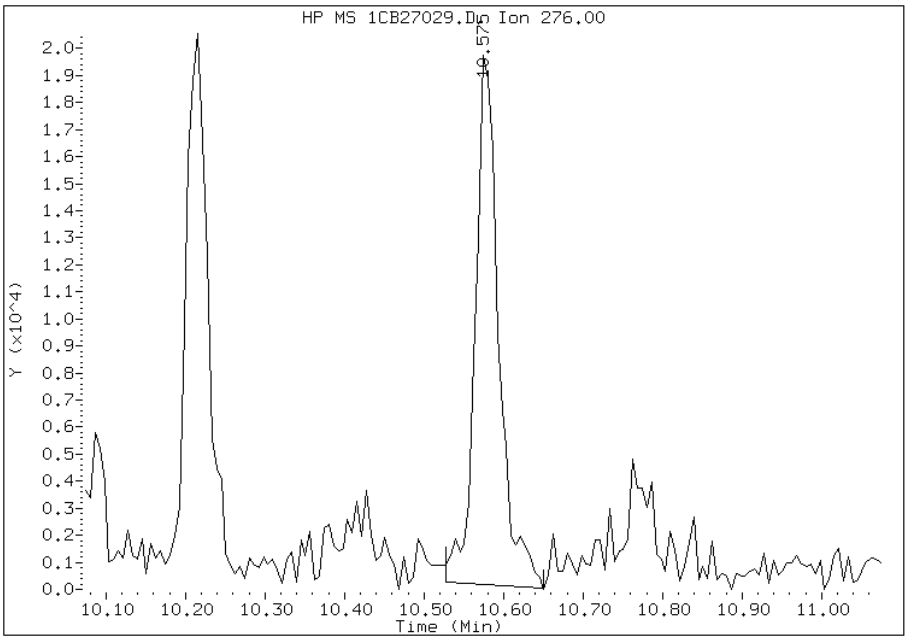
Manual Integration Results

RT: 10.57

Response: 40273

Amount: 1

Conc: 55



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:39
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB27029.D
Inj. Date and Time: 27-FEB-2013 20:32
Instrument ID: BSMC5973.i
Client ID: FM0161NNNN-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/01/2013

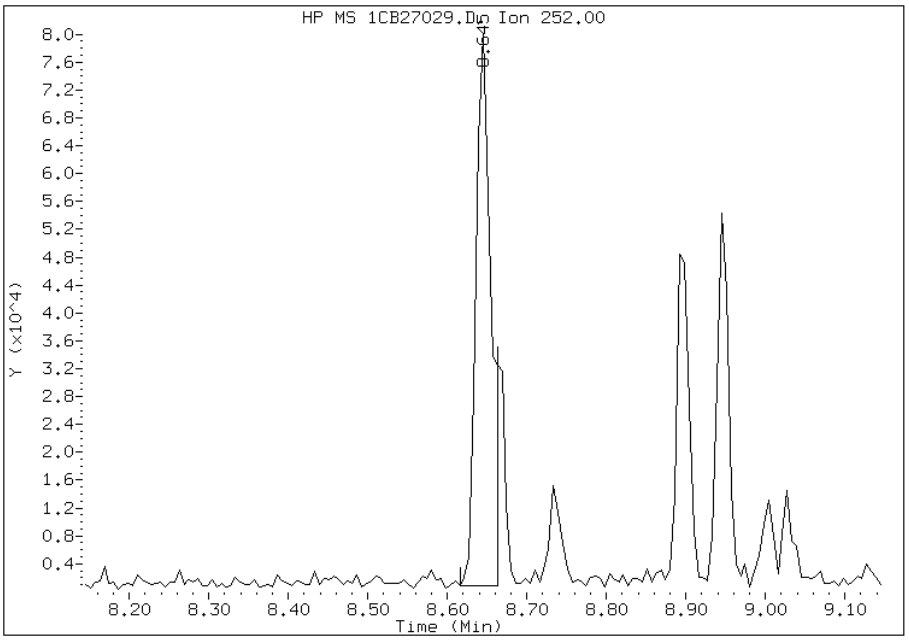
Processing Integration Results

RT: 8.65

Response: 104572

Amount: 2

Conc: 133



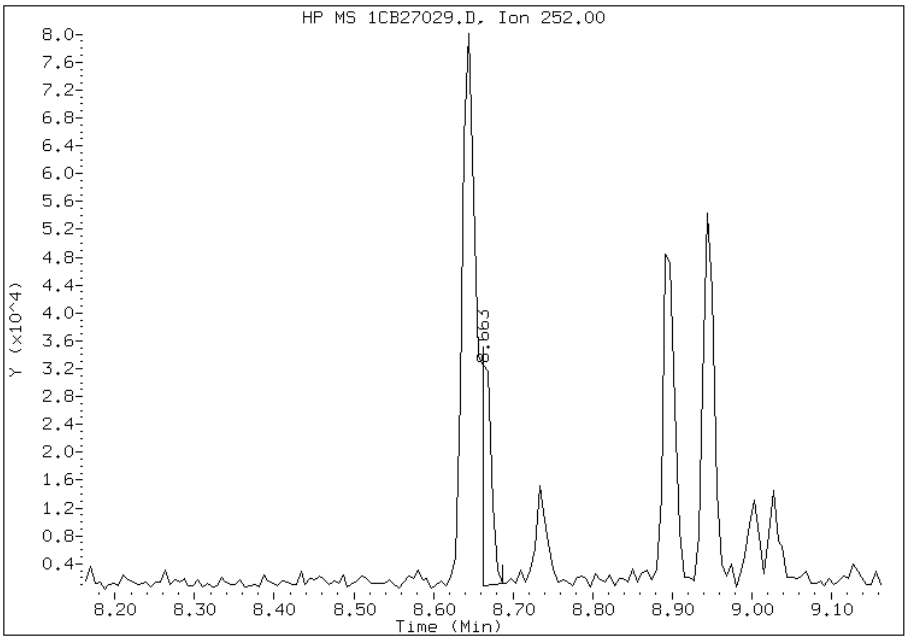
Manual Integration Results

RT: 8.66

Response: 26768

Amount: 0

Conc: 34



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:39
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB27029.D
Inj. Date and Time: 27-FEB-2013 20:32
Instrument ID: BSMC5973.i
Client ID: FM0161NNNN-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/01/2013

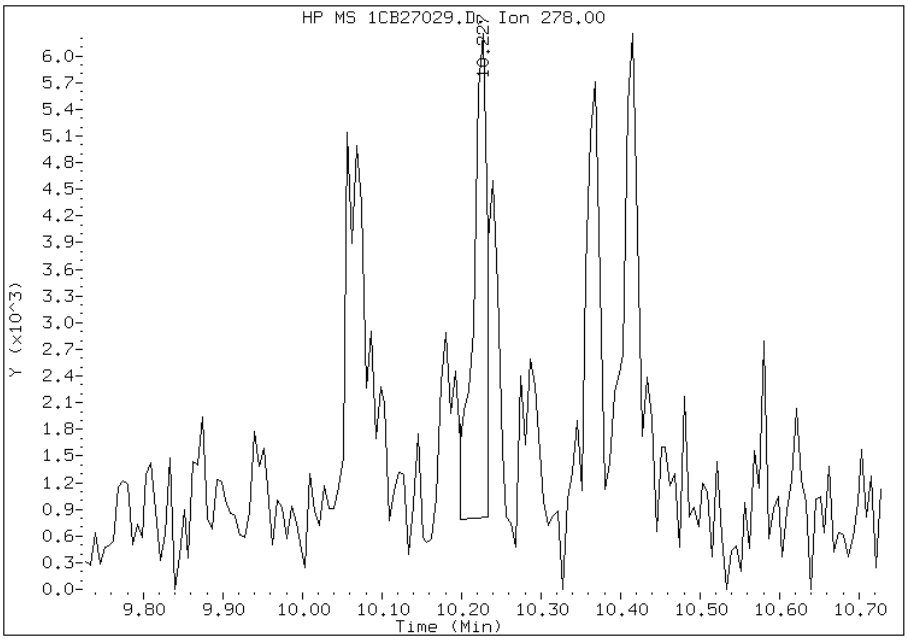
Processing Integration Results

RT: 10.23

Response: 6720

Amount: 0

Conc: 10



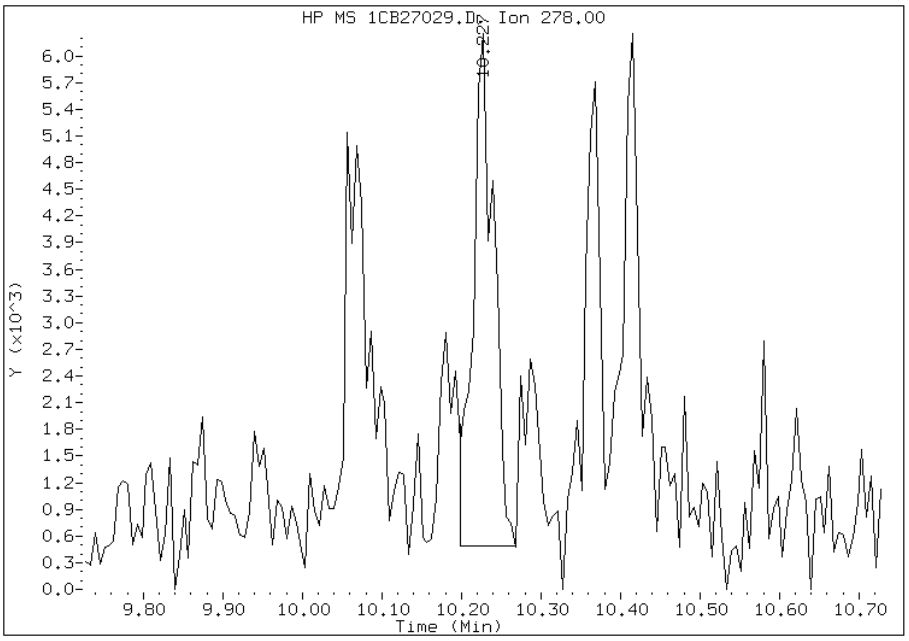
Manual Integration Results

RT: 10.23

Response: 10558

Amount: 0

Conc: 15



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:39
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB27029.D
Inj. Date and Time: 27-FEB-2013 20:32
Instrument ID: BSMC5973.i
Client ID: FM0161NNNN-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/01/2013

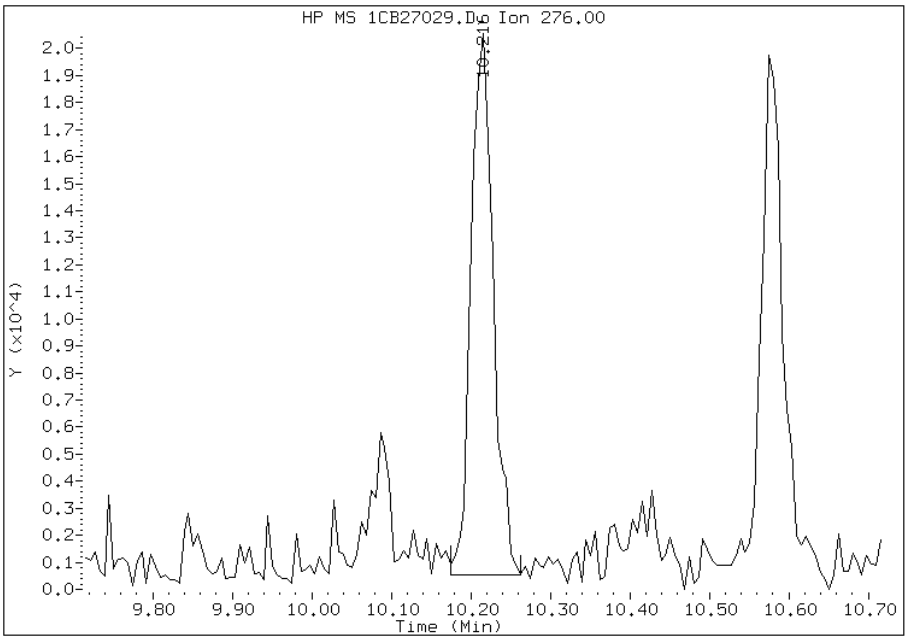
Processing Integration Results

RT: 10.22

Response: 38796

Amount: 1

Conc: 55



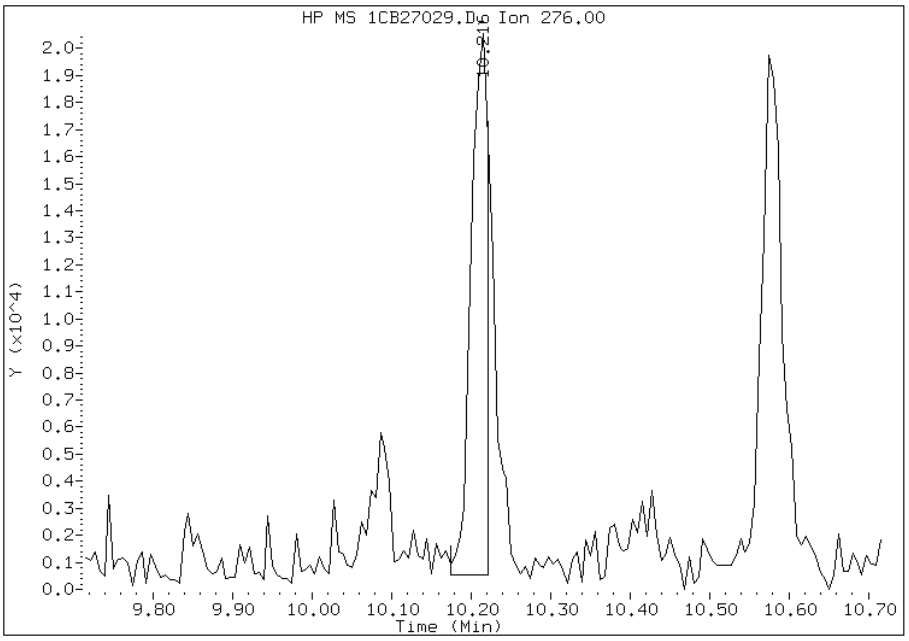
Manual Integration Results

RT: 10.22

Response: 29737

Amount: 0

Conc: 42



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:40
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87655-3

SDG No.: 68087655-3

Client Sample ID: FM01610000-CS | Lab Sample ID: 680-87655-46

Matrix: Solid | Lab File ID: 1CB27030.D

Analysis Method: 8270C LL | Date Collected: 02/19/2013 13:45

Extract. Method: 3546 | Date Extracted: 02/25/2013 14:06

Sample wt/vol: 15.37(g) | Date Analyzed: 02/27/2013 20:50

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

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

% Moisture: 21.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134903 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	13	J	50	6.2
120-12-7	Anthracene	18		10	5.2
56-55-3	Benzo[a]anthracene	91		10	4.9
50-32-8	Benzo[a]pyrene	91		13	6.5
205-99-2	Benzo[b]fluoranthene	150		15	7.6
191-24-2	Benzo[g,h,i]perylene	62		25	5.5
207-08-9	Benzo[k]fluoranthene	65		10	4.5
218-01-9	Chrysene	120		11	5.6
53-70-3	Dibenz(a,h)anthracene	21	J	25	5.1
206-44-0	Fluoranthene	150		25	5.0
86-73-7	Fluorene	13	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	53		25	8.8
90-12-0	1-Methylnaphthalene	65		50	5.5
91-57-6	2-Methylnaphthalene	88		50	8.8
91-20-3	Naphthalene	100		50	5.5
85-01-8	Phenanthrene	130		10	4.9
129-00-0	Pyrene	140		25	4.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\1CB27030.D
Lab Smp Id: 680-87655-A-46-A Client Smp ID: FM0161OOOO-CS
Inj Date : 27-FEB-2013 20:50
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87655-a-46-a
Misc Info : 680-87655-A-46-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\a-bFASTPAHi-m.m
Meth Date : 27-Feb-2013 16:31 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

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	21.538	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.792	3.792	(1.000)	1779417	40.0000	
* 6 Acenaphthene-d10	164	4.886	4.880	(1.000)	1377979	40.0000	
* 10 Phenanthrene-d10	188	5.839	5.839	(1.000)	2615036	40.0000	
$ 14 o-Terphenyl	230	6.092	6.092	(1.043)	253931	6.43147	533.3096
* 18 Chrysene-d12	240	7.792	7.792	(1.000)	2762612	40.0000	
* 23 Perylene-d12	264	9.004	9.004	(1.000)	2573751	40.0000	
2 Naphthalene	128	3.804	3.804	(1.003)	58421	1.26111	104.5739
3 2-Methylnaphthalene	142	4.233	4.233	(1.116)	32959	1.06661	88.4451
4 1-Methylnaphthalene	142	4.298	4.298	(1.133)	22020	0.78243	64.8803
5 Acenaphthylene	152	4.798	4.798	(0.982)	8649	0.15568	12.9093
9 Fluorene	166	5.227	5.221	(1.070)	6986	0.15997	13.2649
11 Phenanthrene	178	5.851	5.851	(1.002)	114982	1.52062	126.0925
12 Anthracene	178	5.886	5.886	(1.008)	16071	0.21732	18.0204
13 Carbazole	167	5.998	5.992	(1.027)	13189	0.20063	16.6367
15 Fluoranthene	202	6.698	6.698	(1.147)	146265	1.76632	146.4664

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.863	6.863	(0.881)	124070	1.67117	138.5769
17 Benzo(a)anthracene	228	7.780	7.780	(0.998)	87515	1.09758	91.0136
19 Chrysene	228	7.810	7.810	(1.002)	118181	1.48107	122.8133
20 Benzo(b)fluoranthene	252	8.645	8.645	(0.960)	119890	1.78244	147.8034(M)
21 Benzo(k)fluoranthene	252	8.657	8.668	(0.961)	53749	0.77897	64.5937(QM)
22 Benzo(a)pyrene	252	8.945	8.945	(0.993)	71347	1.09205	90.5548
24 Indeno(1,2,3-cd)pyrene	276	10.215	10.215	(1.135)	39567	0.64378	53.3838(M)
25 Dibenzo(a,h)anthracene	278	10.221	10.233	(1.135)	15367	0.25562	21.1965
26 Benzo(g,h,i)perylene	276	10.580	10.580	(1.175)	48234	0.75023	62.2104

QC Flag Legend

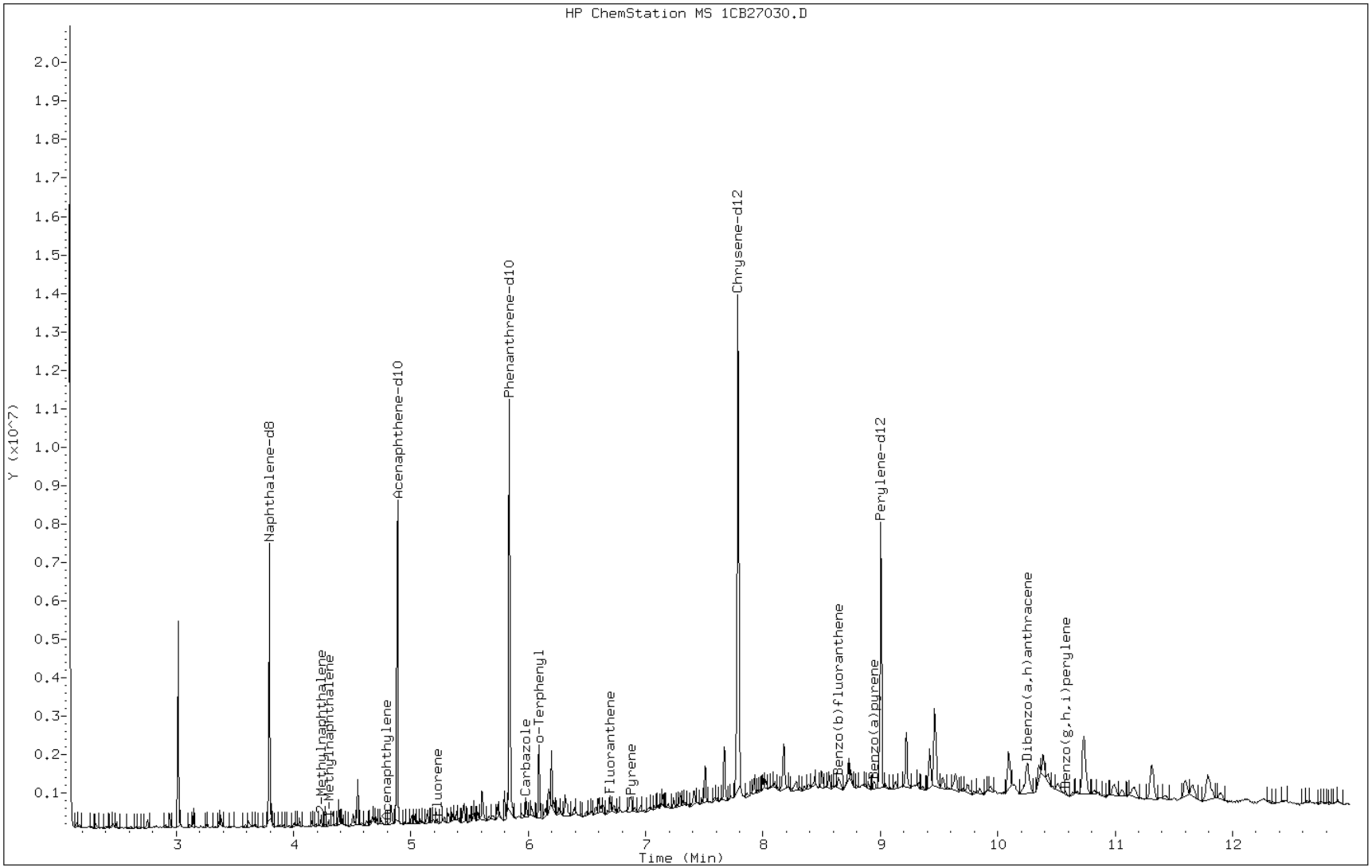
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB27030.D

Date: 27-FEB-2013 20:50

Client ID: FM01610000-CS | Instrument: BSMC5973.i

Sample Info: 680-87655-a-46-a | Operator: SCC



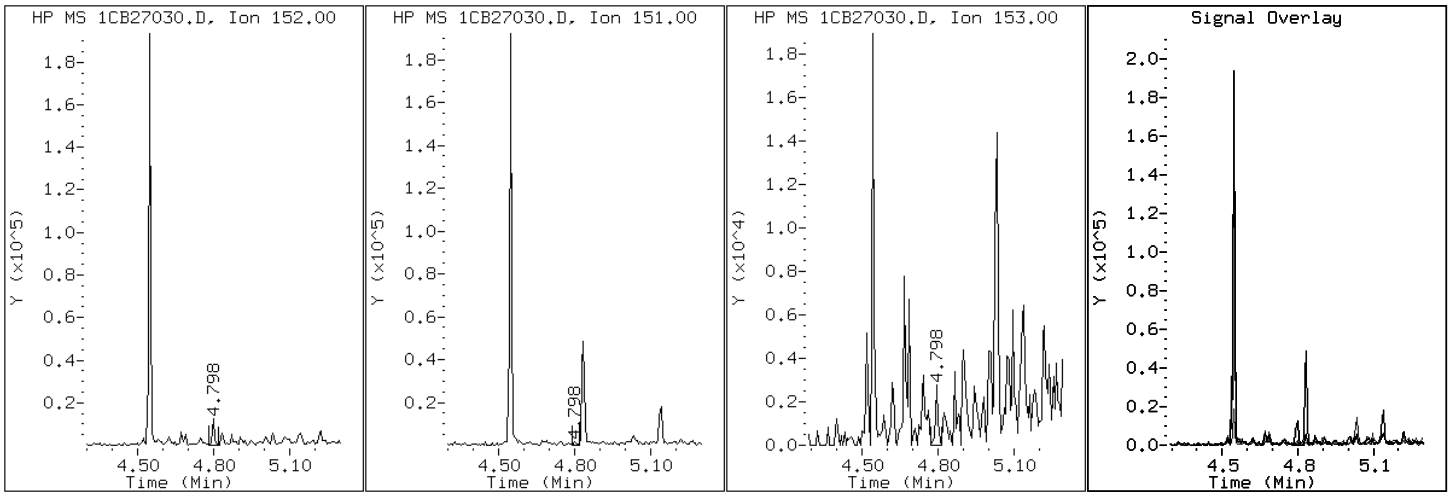
Data File: 1CB27030.D

Date: 27-FEB-2013 20:50

Client ID: FM0161OOOO-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-46-a Operator: SCC

5 Acenaphthylene



Data File: 1CB27030.D

Date: 27-FEB-2013 20:50

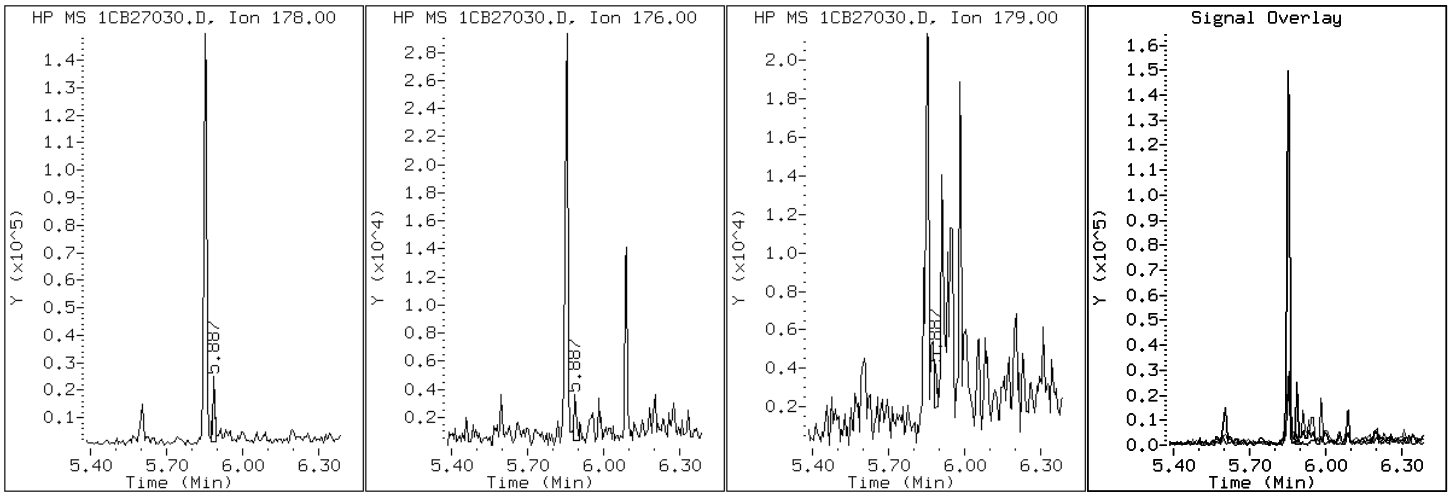
Client ID: FM0161OOOO-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-46-a

Operator: SCC

12 Anthracene



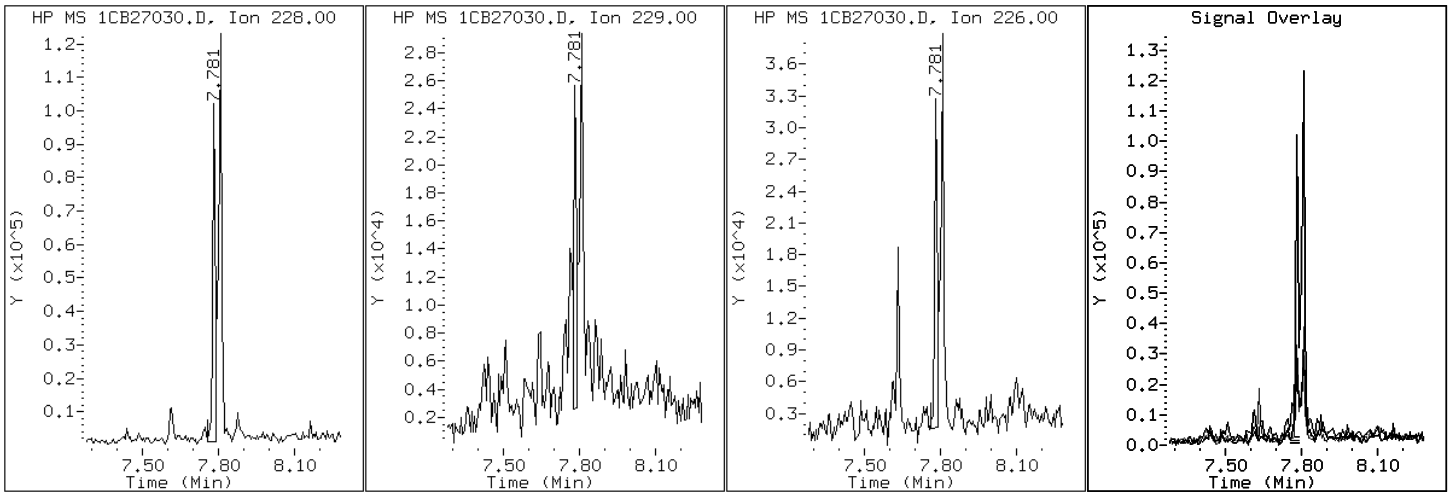
Data File: 1CB27030.D

Date: 27-FEB-2013 20:50

Client ID: FM0161OOOO-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-46-a Operator: SCC

17 Benzo(a)anthracene



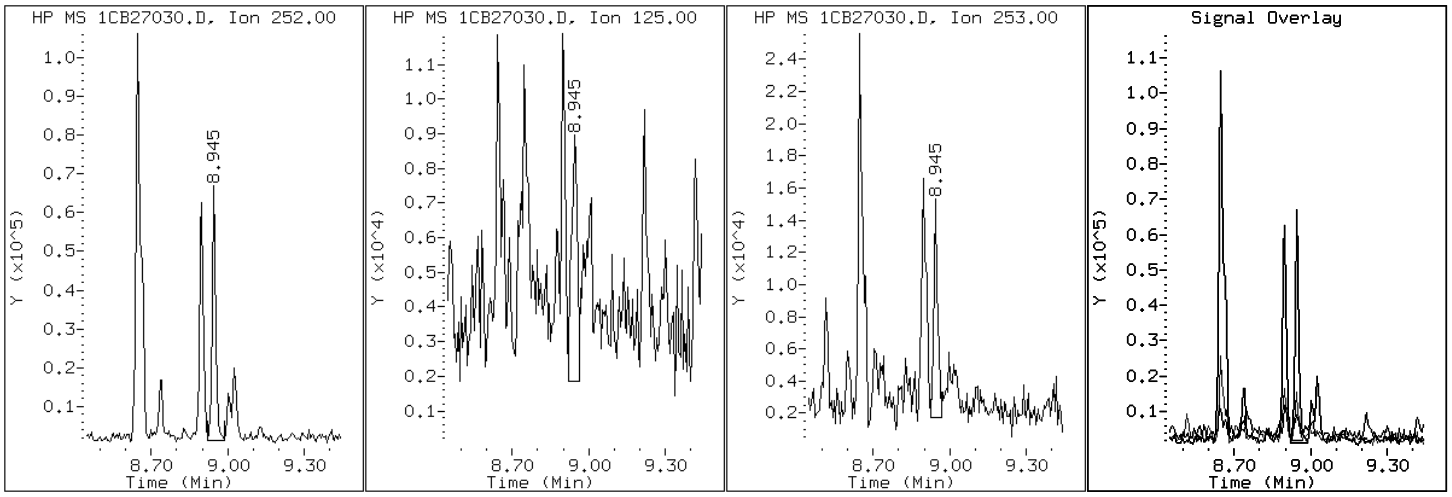
Data File: 1CB27030.D

Date: 27-FEB-2013 20:50

Client ID: FM0161OOOO-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-46-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1CB27030.D

Date: 27-FEB-2013 20:50

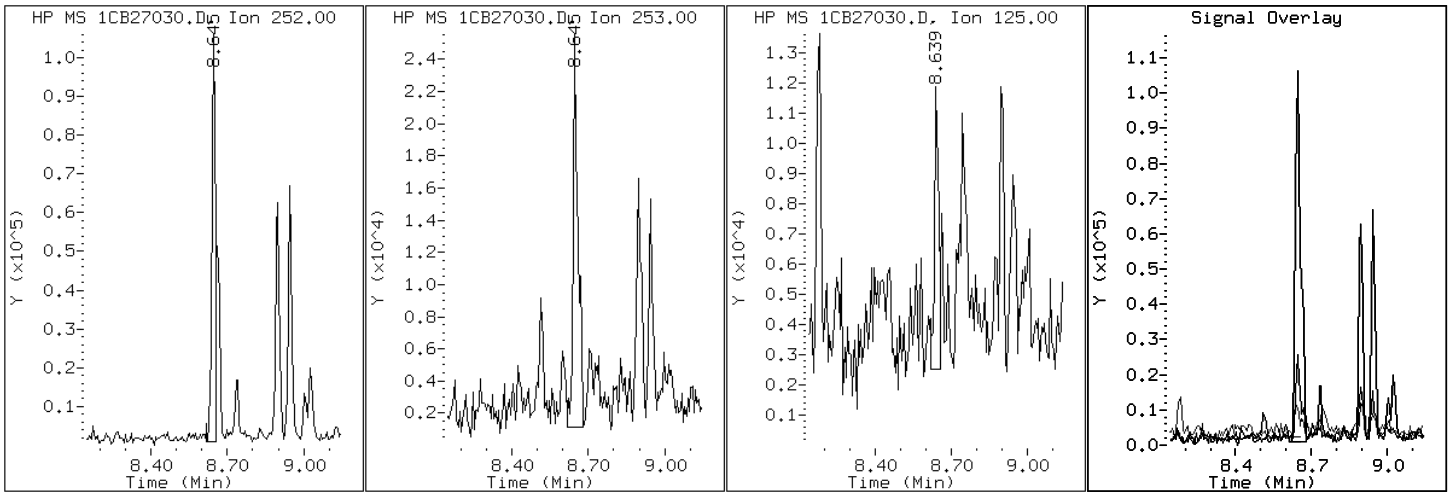
Client ID: FM0161OOOO-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-46-a

Operator: SCC

20 Benzo(b)fluoranthene



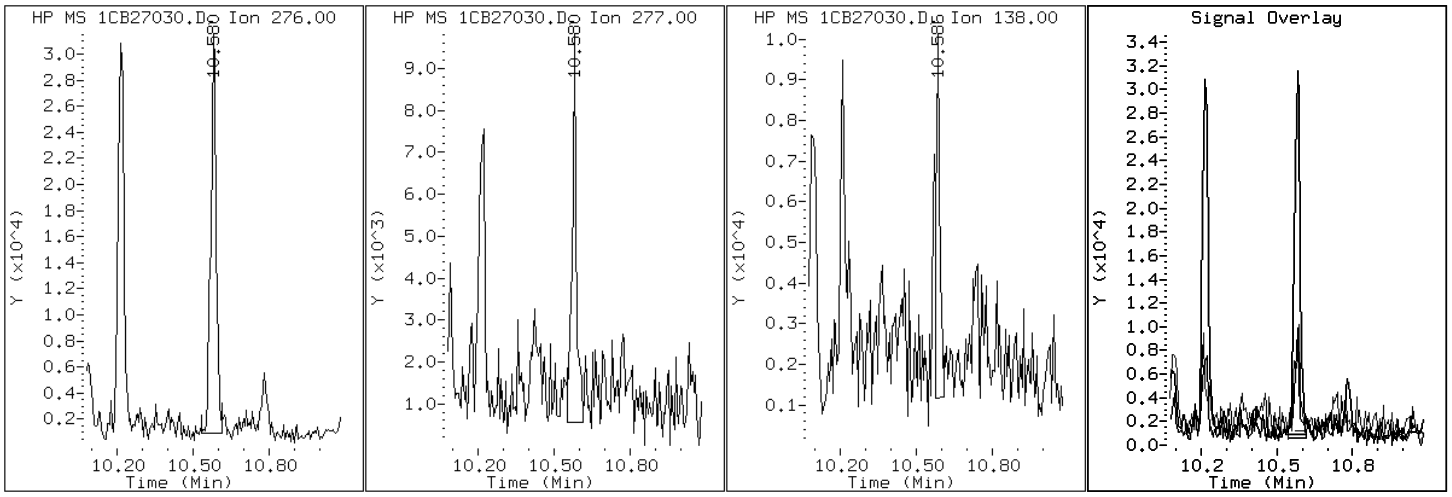
Data File: 1CB27030.D

Date: 27-FEB-2013 20:50

Client ID: FM0161OOOO-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-46-a Operator: SCC

26 Benzo(g,h,i)perylene



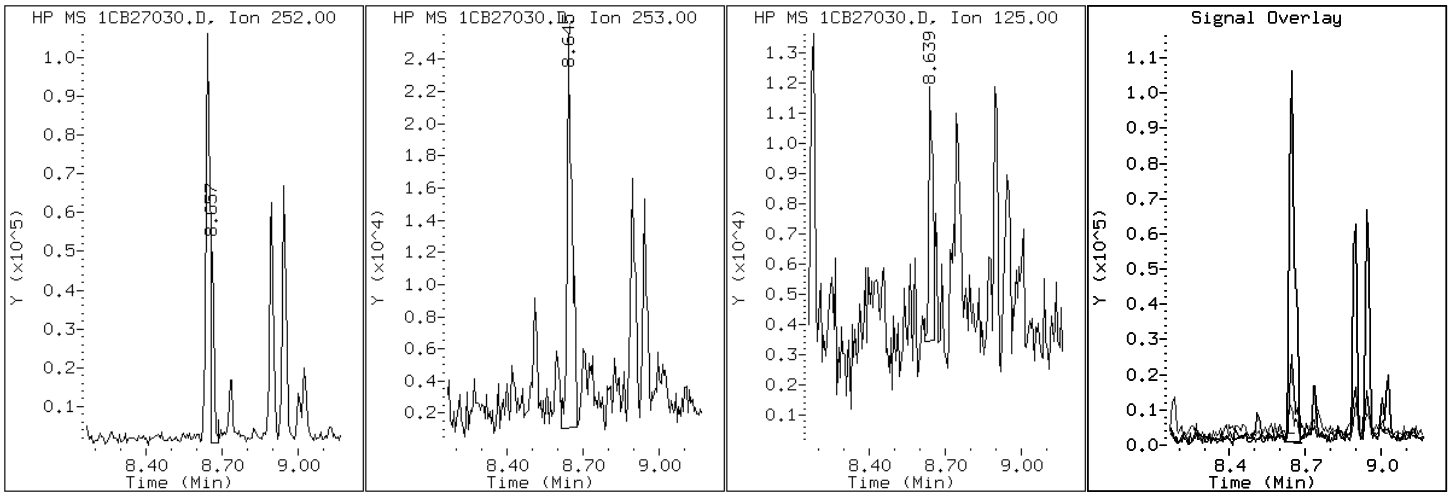
Data File: 1CB27030.D

Date: 27-FEB-2013 20:50

Client ID: FM01610000-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-46-a Operator: SCC

21 Benzo(k)fluoranthene



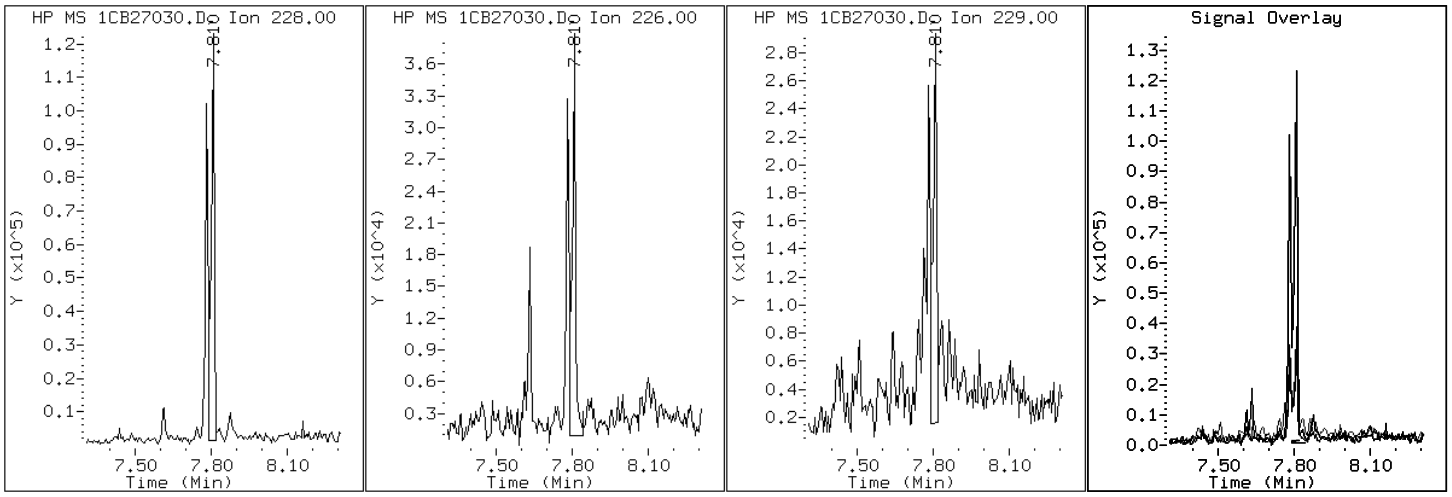
Data File: 1CB27030.D

Date: 27-FEB-2013 20:50

Client ID: FM0161OOOO-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-46-a Operator: SCC

19 Chrysene



Data File: 1CB27030.D

Date: 27-FEB-2013 20:50

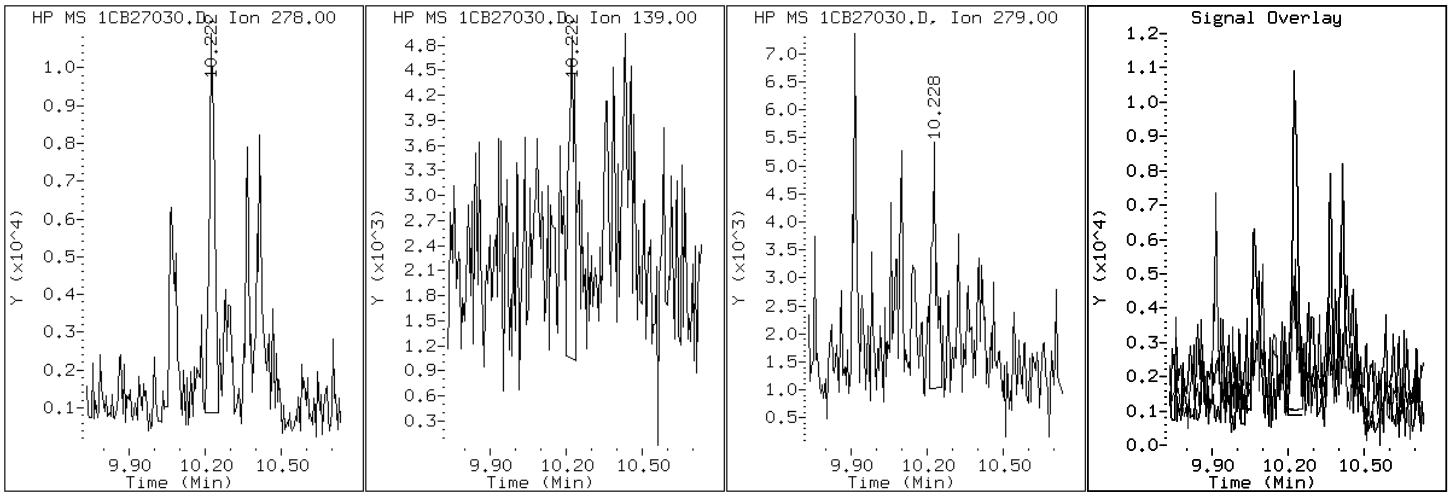
Client ID: FM0161OOOO-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-46-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CB27030.D

Date: 27-FEB-2013 20:50

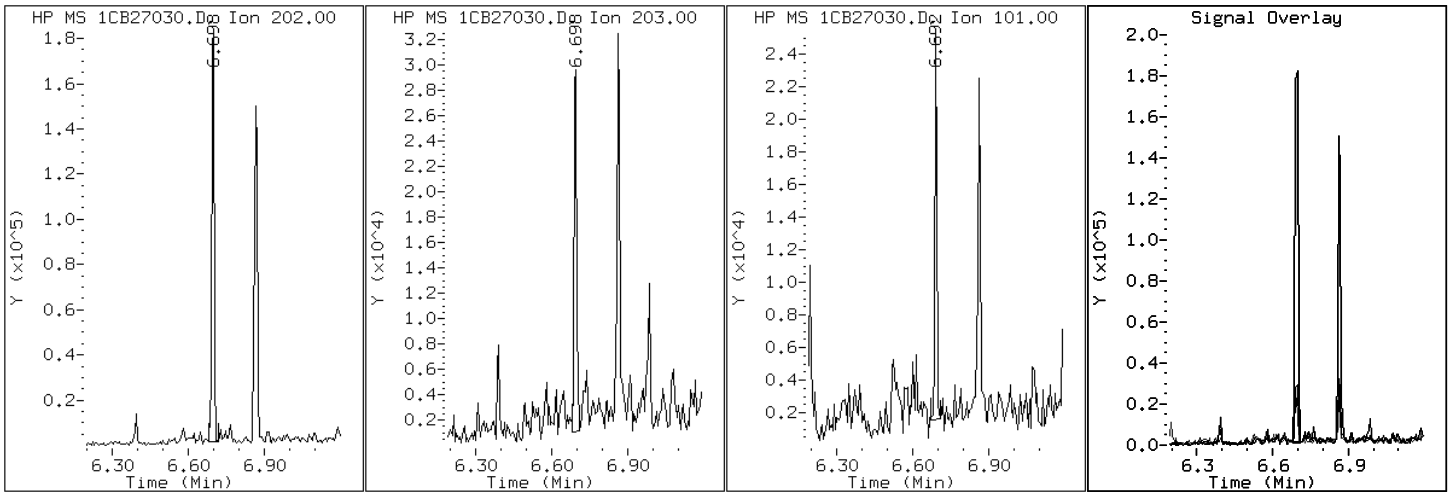
Client ID: FM0161OOOO-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-46-a

Operator: SCC

15 Fluoranthene



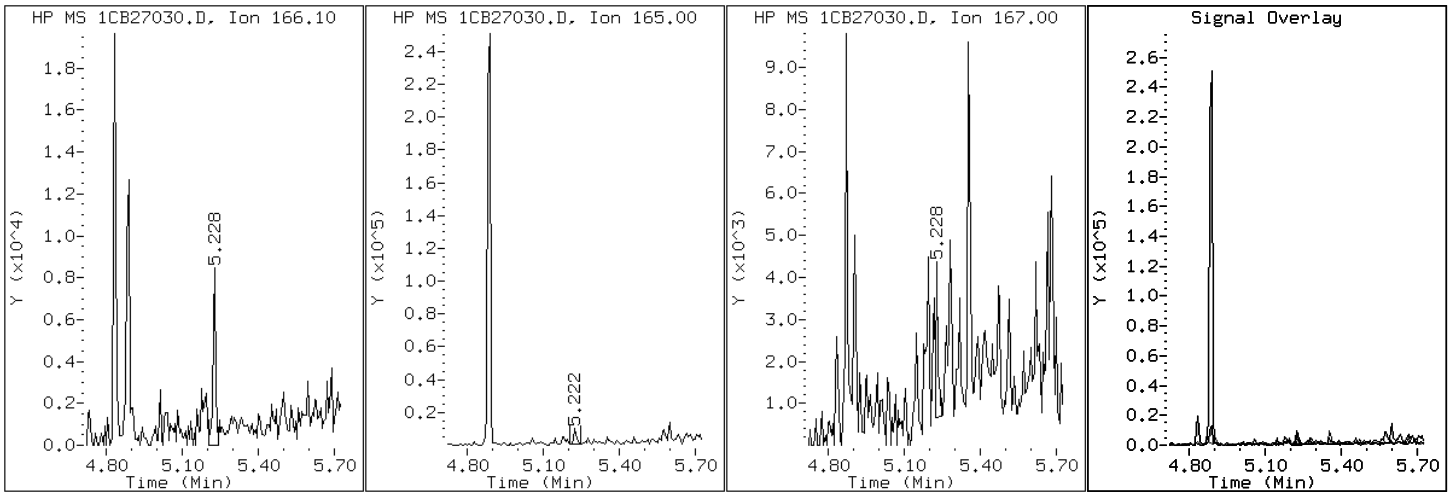
Data File: 1CB27030.D

Date: 27-FEB-2013 20:50

Client ID: FM0161OOOO-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-46-a Operator: SCC

9 Fluorene



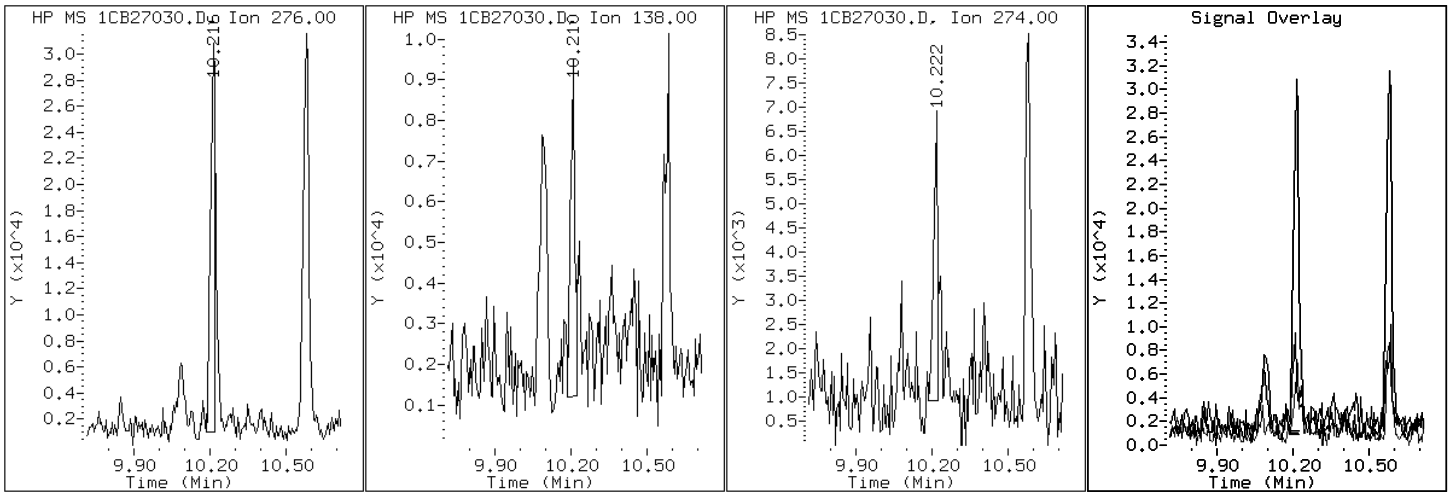
Data File: 1CB27030.D

Date: 27-FEB-2013 20:50

Client ID: FM0161OOOO-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-46-a Operator: SCC

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



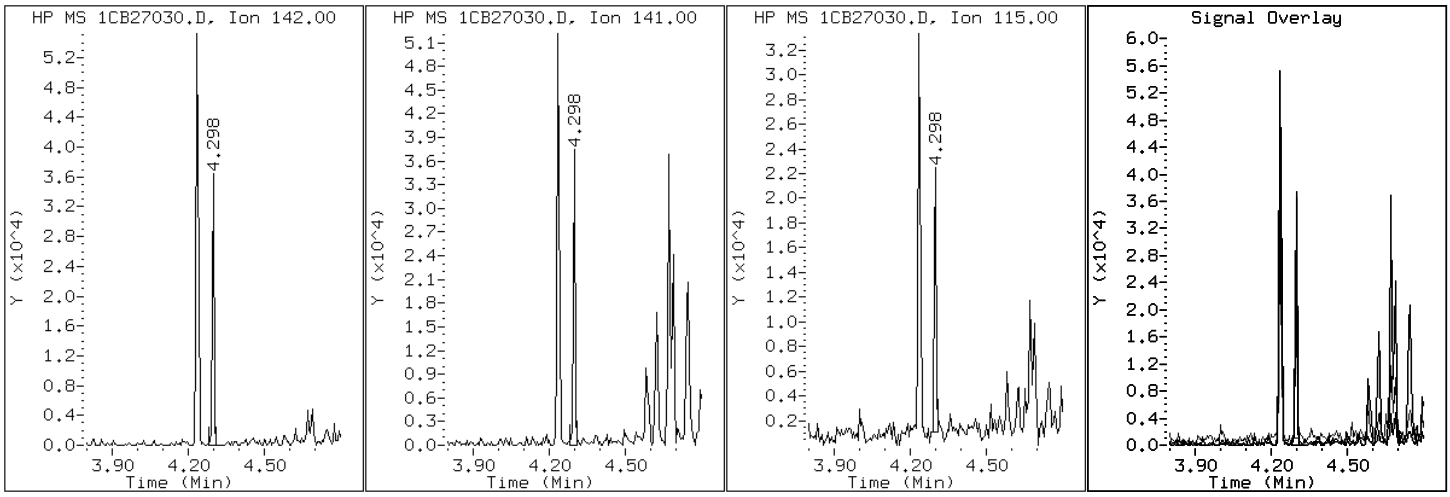
Data File: 1CB27030.D

Date: 27-FEB-2013 20:50

Client ID: FM0161OOOO-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-46-a Operator: SCC

4 1-Methylnaphthalene



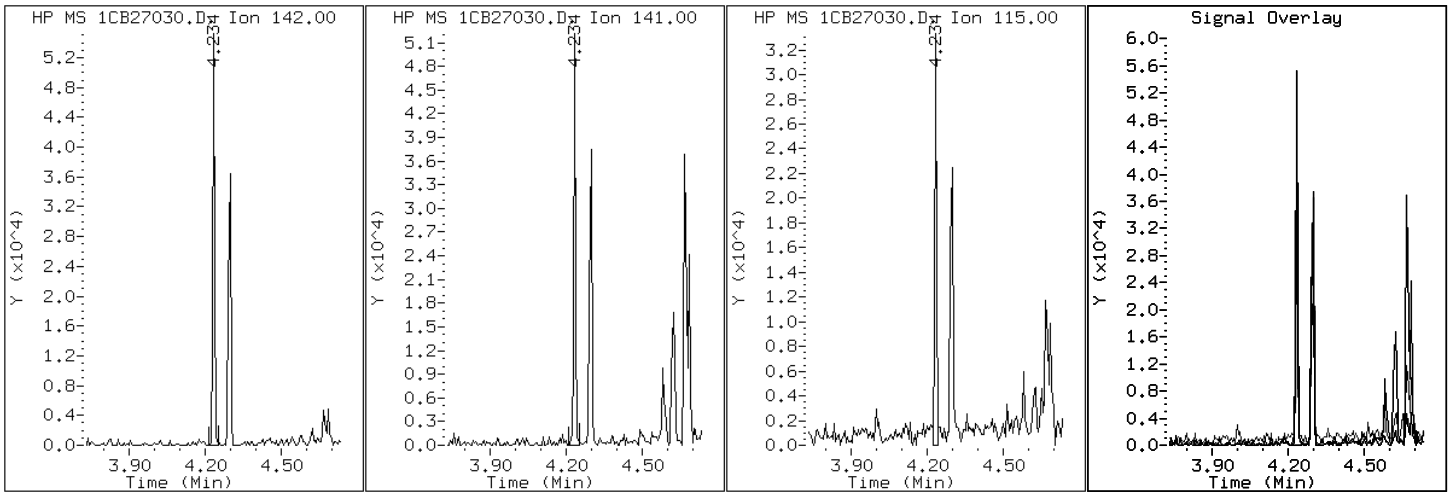
Data File: 1CB27030.D

Date: 27-FEB-2013 20:50

Client ID: FM0161OOOO-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-46-a Operator: SCC

3 2-Methylnaphthalene



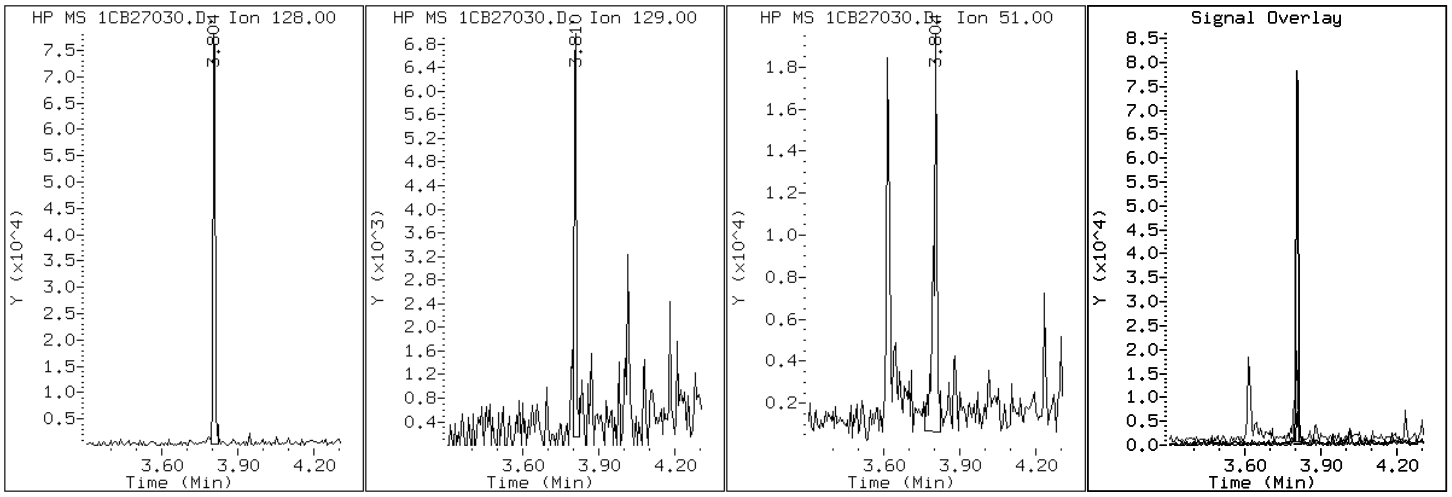
Data File: 1CB27030.D

Date: 27-FEB-2013 20:50

Client ID: FM0161OOOO-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-46-a Operator: SCC

2 Naphthalene



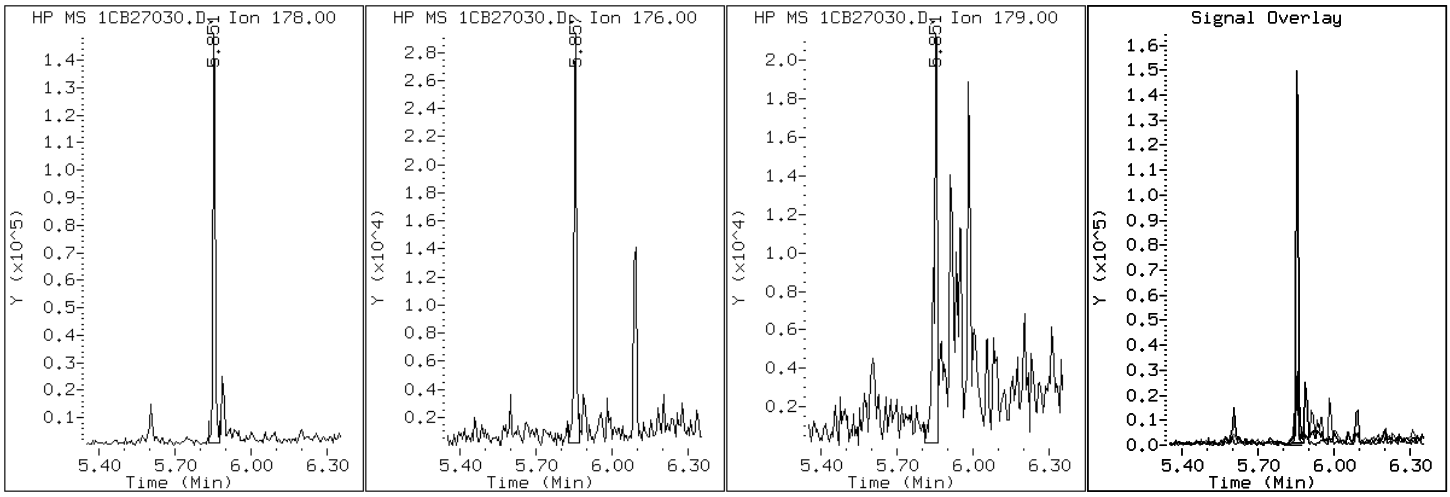
Data File: 1CB27030.D

Date: 27-FEB-2013 20:50

Client ID: FM0161OOOO-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-46-a Operator: SCC

11 Phenanthrene



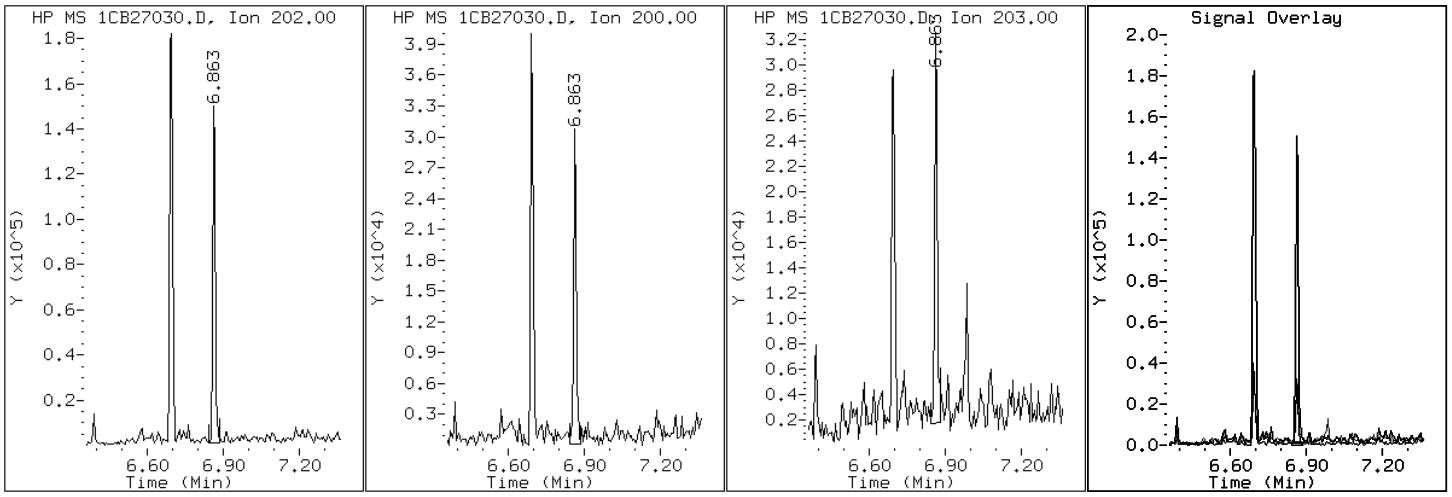
Data File: 1CB27030.D

Date: 27-FEB-2013 20:50

Client ID: FM0161OOOO-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-46-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB27030.D
Inj. Date and Time: 27-FEB-2013 20:50
Instrument ID: BSMC5973.i
Client ID: FM01610000-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/01/2013

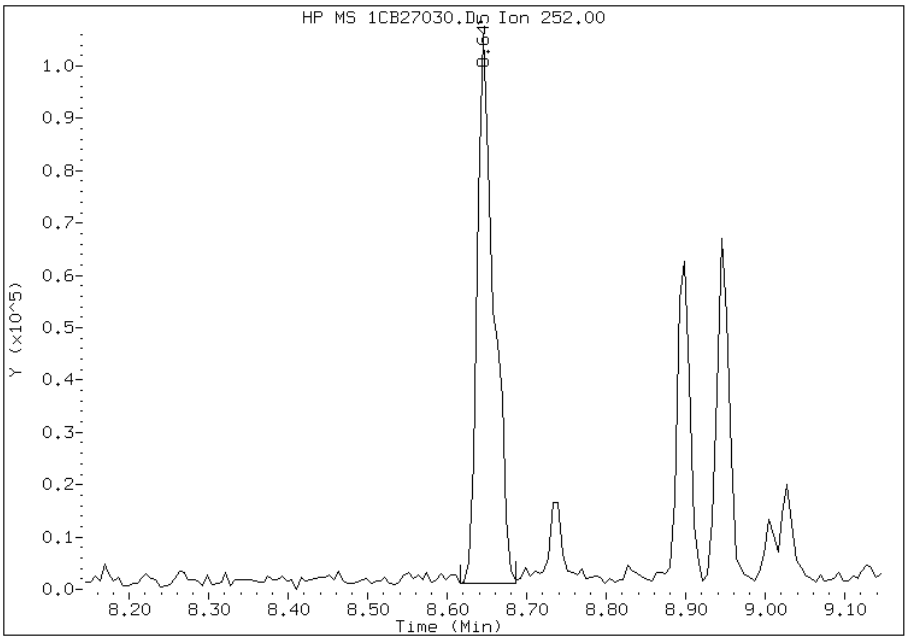
Processing Integration Results

RT: 8.65

Response: 154247

Amount: 2

Conc: 190



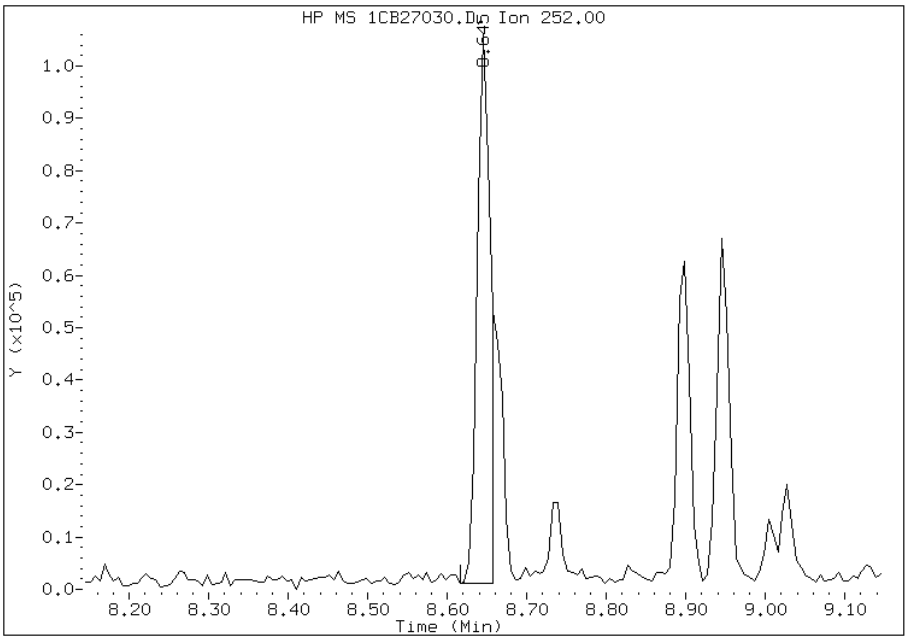
Manual Integration Results

RT: 8.65

Response: 119890

Amount: 2

Conc: 148



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:40
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB27030.D
Inj. Date and Time: 27-FEB-2013 20:50
Instrument ID: BSMC5973.i
Client ID: FM01610000-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/01/2013

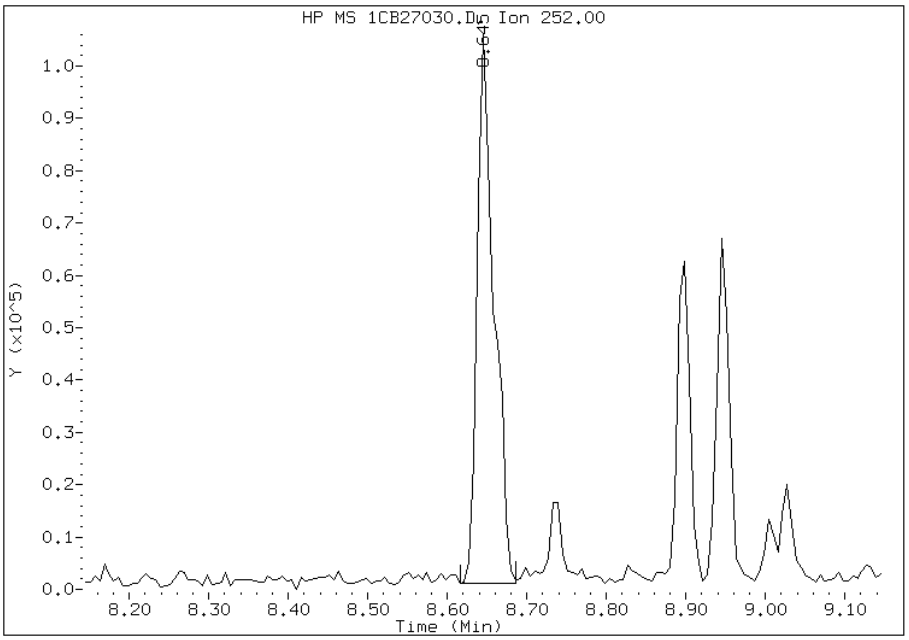
Processing Integration Results

RT: 8.65

Response: 154247

Amount: 2

Conc: 185



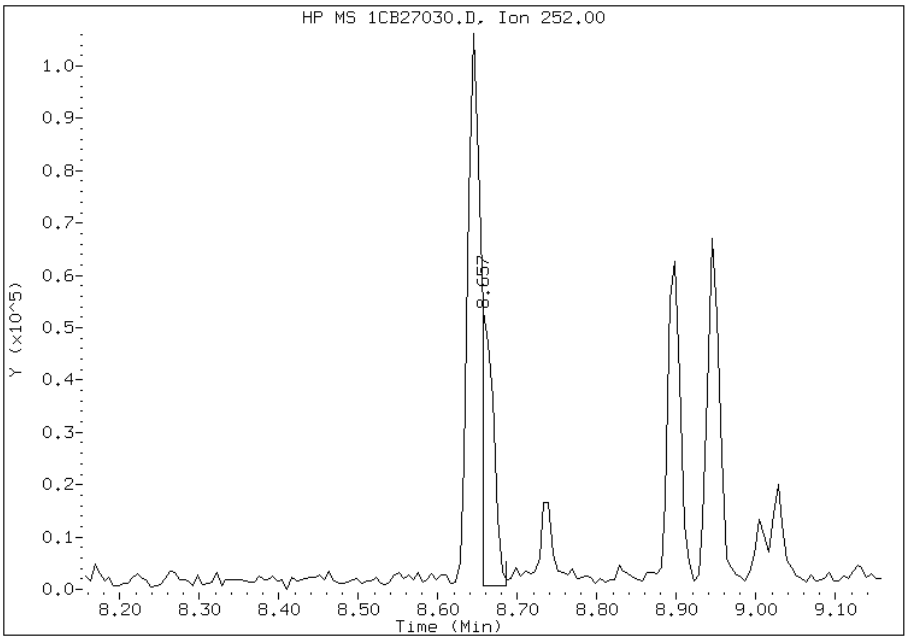
Manual Integration Results

RT: 8.66

Response: 53749

Amount: 1

Conc: 65



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:40
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB27030.D
Inj. Date and Time: 27-FEB-2013 20:50
Instrument ID: BSMC5973.i
Client ID: FM0161OOOO-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/01/2013

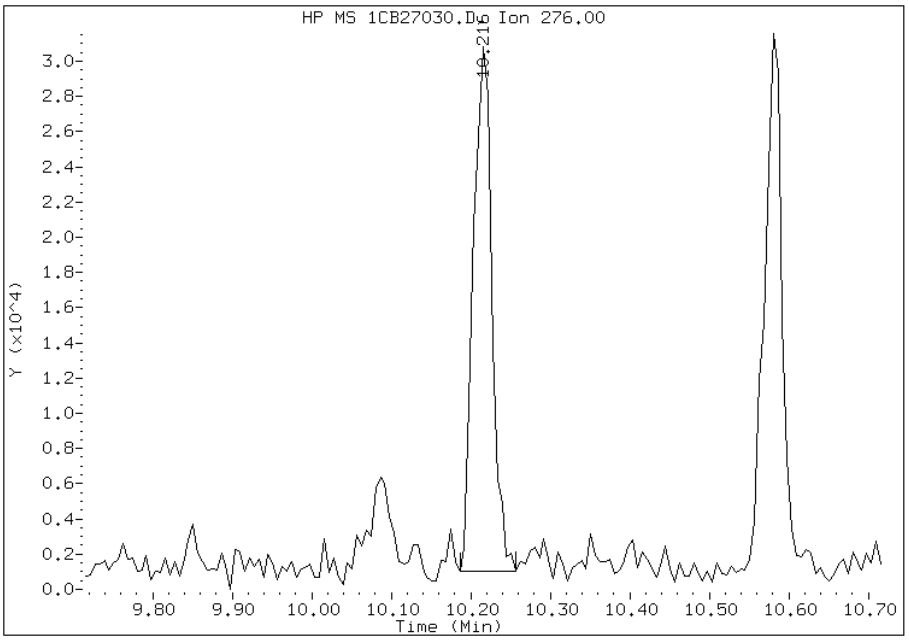
Processing Integration Results

RT: 10.22

Response: 47989

Amount: 1

Conc: 65



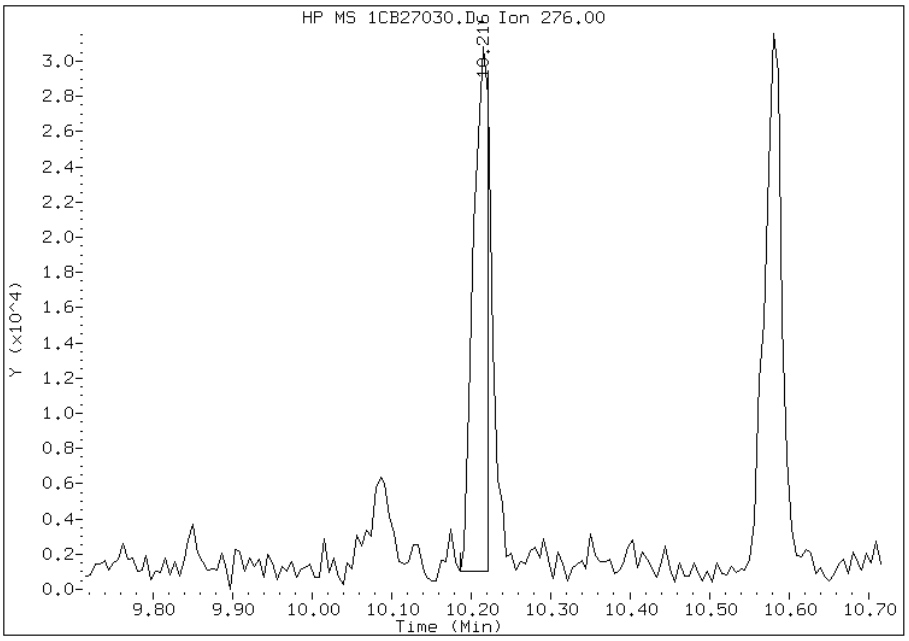
Manual Integration Results

RT: 10.22

Response: 39567

Amount: 1

Conc: 53



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:41
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87655-3

SDG No.: 68087655-3

Client Sample ID: FM0161PPPP-CS | Lab Sample ID: 680-87655-47

Matrix: Solid | Lab File ID: 1CB27031.D

Analysis Method: 8270C LL | Date Collected: 02/19/2013 13:46

Extract. Method: 3546 | Date Extracted: 02/25/2013 14:06

Sample wt/vol: 14.92(g) | Date Analyzed: 02/27/2013 21:08

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

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

% Moisture: 26.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134903 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	27
208-96-8	Acenaphthylene	9.8	J	54	6.8
120-12-7	Anthracene	15		11	5.7
56-55-3	Benzo[a]anthracene	79		11	5.3
50-32-8	Benzo[a]pyrene	72		14	7.1
205-99-2	Benzo[b]fluoranthene	120		17	8.3
191-24-2	Benzo[g,h,i]perylene	60		27	6.0
207-08-9	Benzo[k]fluoranthene	55		11	4.9
218-01-9	Chrysene	120		12	6.1
53-70-3	Dibenz(a,h)anthracene	18	J	27	5.6
206-44-0	Fluoranthene	110		27	5.4
86-73-7	Fluorene	11	J	27	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	44		27	9.7
90-12-0	1-Methylnaphthalene	65		54	6.0
91-57-6	2-Methylnaphthalene	81		54	9.7
91-20-3	Naphthalene	90		54	6.0
85-01-8	Phenanthrene	110		11	5.3
129-00-0	Pyrene	110		27	5.0

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\BSMC5973.i\1C022713.b\1CB27031.D
Lab Smp Id: 680-87655-A-47-A Client Smp ID: FM0161PPPP-CS
Inj Date : 27-FEB-2013 21:08
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87655-a-47-a
Misc Info : 680-87655-A-47-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\a-bFASTPAHi-m.m
Meth Date : 27-Feb-2013 16:31 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

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	26.096	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.792	3.792	(1.000)	1689974	40.0000	
* 6 Acenaphthene-d10	164	4.886	4.880	(1.000)	1354471	40.0000	
* 10 Phenanthrene-d10	188	5.839	5.839	(1.000)	2569748	40.0000	
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* 18 Chrysene-d12	240	7.792	7.792	(1.000)	2695419	40.0000	
* 23 Perylene-d12	264	9.004	9.004	(1.000)	2462872	40.0000	
2 Naphthalene	128	3.810	3.804	(1.005)	43483	0.98833	89.6330
3 2-Methylnaphthalene	142	4.233	4.233	(1.116)	26051	0.88767	80.5042
4 1-Methylnaphthalene	142	4.298	4.298	(1.133)	19248	0.72013	65.3094
5 Acenaphthylene	152	4.798	4.798	(0.982)	5896	0.10797	9.7919
9 Fluorene	166	5.221	5.221	(1.069)	5156	0.12011	10.8933(Q)
11 Phenanthrene	178	5.851	5.851	(1.002)	92269	1.24175	112.6158
12 Anthracene	178	5.886	5.886	(1.008)	11915	0.16396	14.8696
13 Carbazole	167	5.992	5.992	(1.026)	11035	0.17082	15.4921(Q)
15 Fluoranthene	202	6.692	6.698	(1.146)	102488	1.25947	114.2232

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.863	6.863	(0.881)	91669	1.26553	114.7722
17 Benzo(a)anthracene	228	7.780	7.780	(0.998)	68009	0.87421	79.2831
19 Chrysene	228	7.810	7.810	(1.002)	100634	1.29261	117.2284
20 Benzo(b)fluoranthene	252	8.645	8.645	(0.960)	86910	1.35029	122.4595
21 Benzo(k)fluoranthene	252	8.662	8.668	(0.962)	40353	0.61115	55.4264
22 Benzo(a)pyrene	252	8.945	8.945	(0.993)	49856	0.79746	72.3227
24 Indeno(1,2,3-cd)pyrene	276	10.209	10.215	(1.134)	28667	0.48743	44.2059(M)
25 Dibenzo(a,h)anthracene	278	10.227	10.233	(1.136)	11419	0.19850	18.0021
26 Benzo(g,h,i)perylene	276	10.580	10.580	(1.175)	41003	0.66647	60.4432(M)

QC Flag Legend

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

Data File: 1CB27031.D

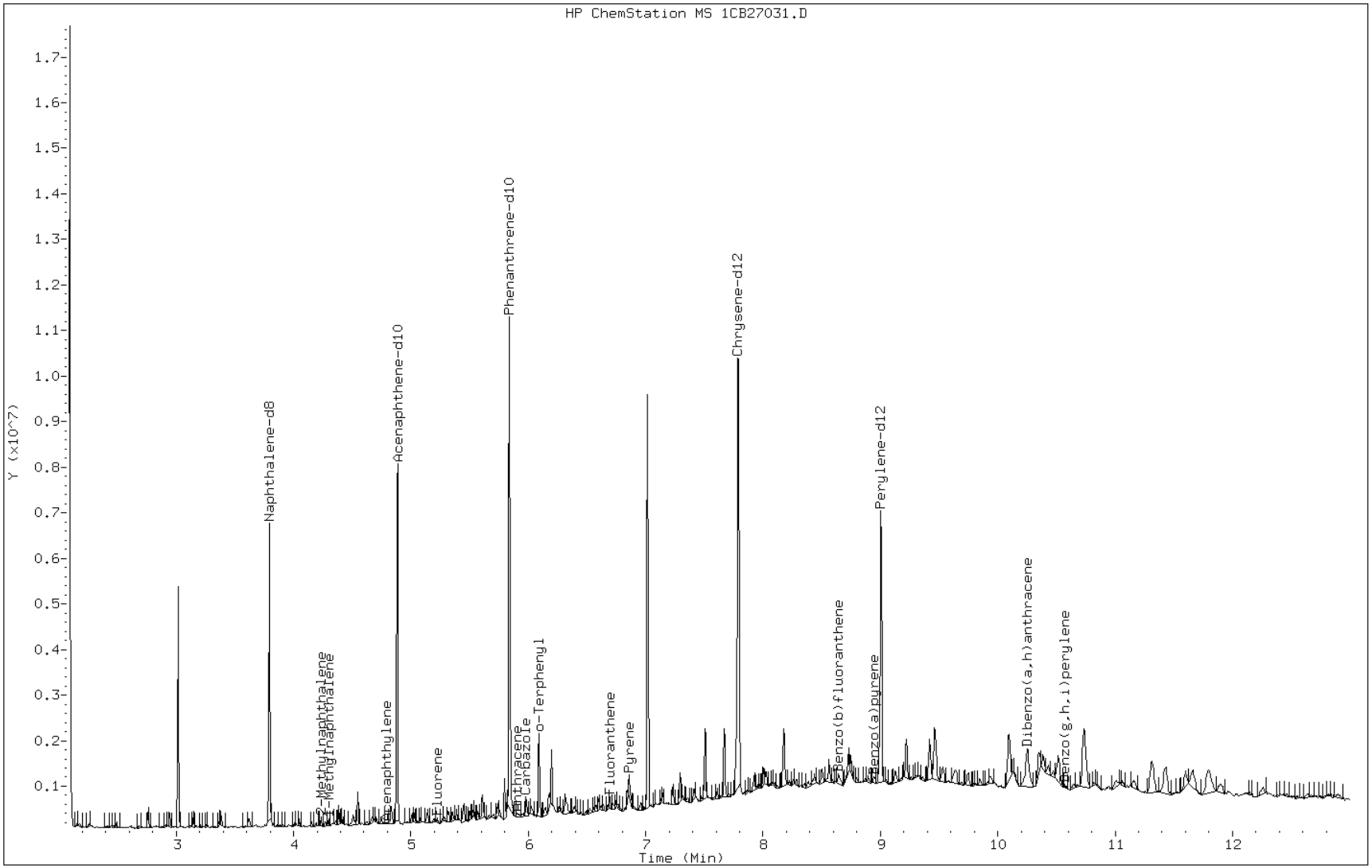
Date: 27-FEB-2013 21:08

Client ID: FM0161PPPP-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-47-a

Operator: SCC



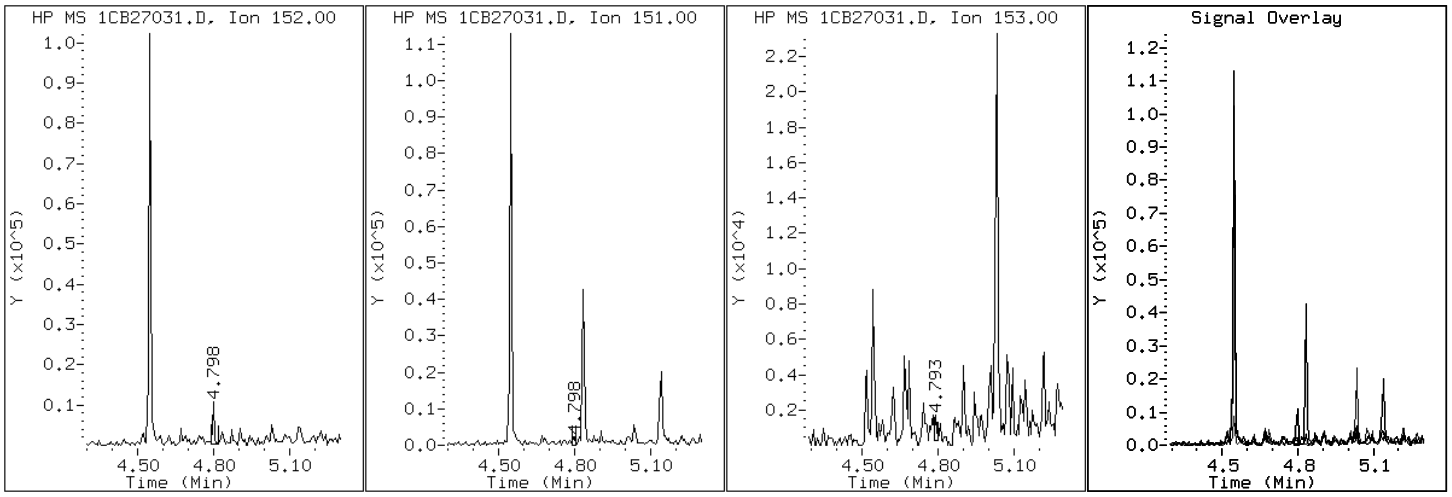
Data File: 1CB27031.D

Date: 27-FEB-2013 21:08

Client ID: FM0161PPPP-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-47-a Operator: SCC

5 Acenaphthylene



Data File: 1CB27031.D

Date: 27-FEB-2013 21:08

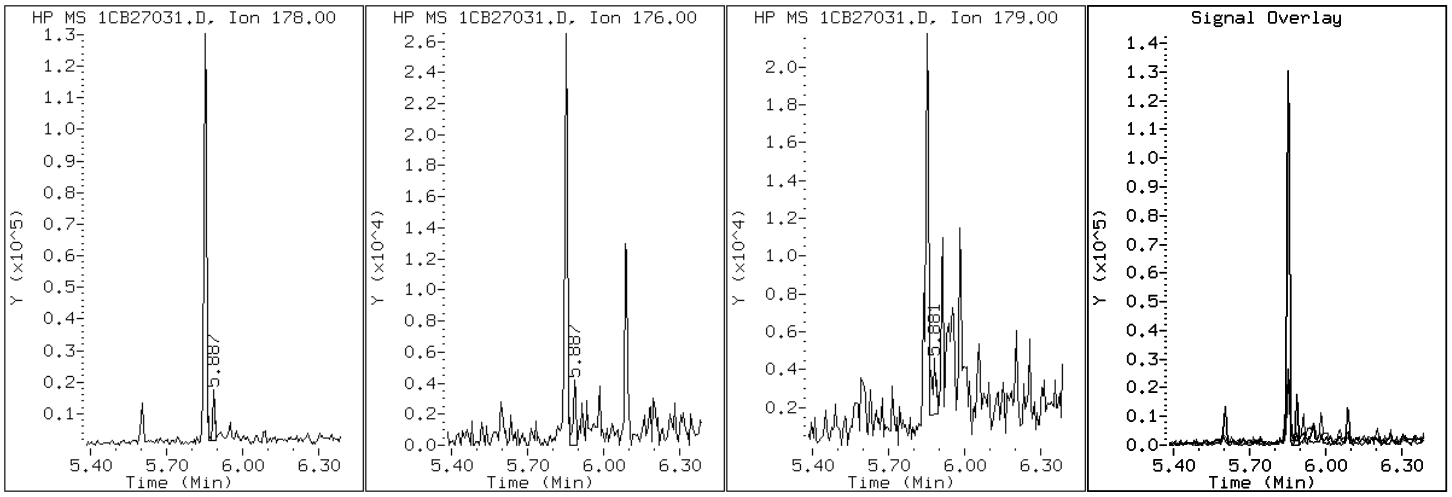
Client ID: FM0161PPPP-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-47-a

Operator: SCC

12 Anthracene



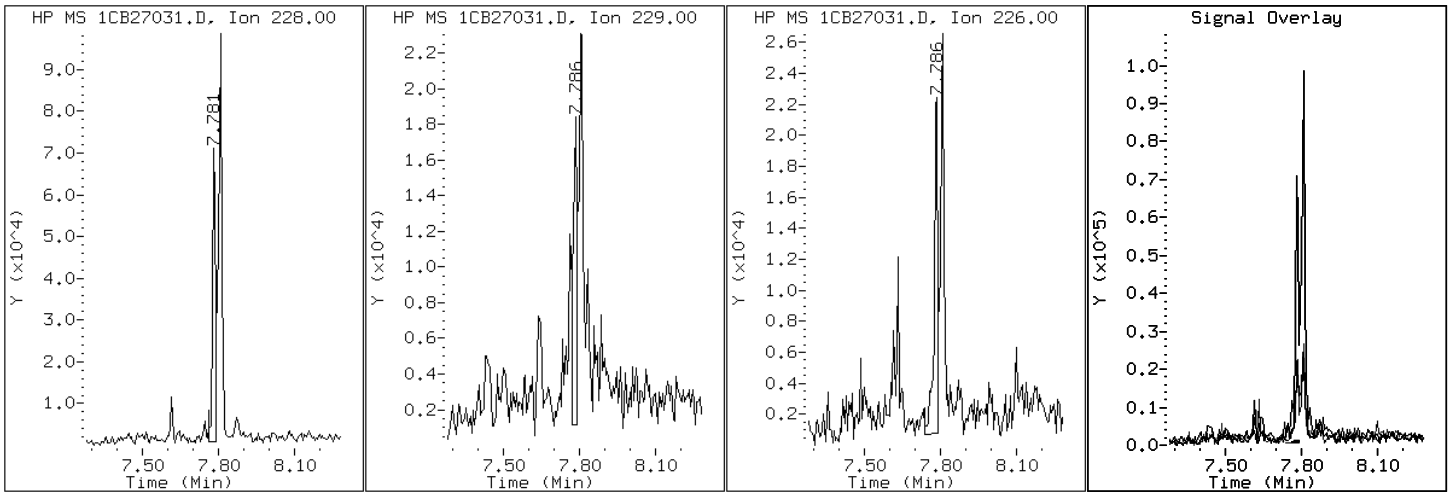
Data File: 1CB27031.D

Date: 27-FEB-2013 21:08

Client ID: FM0161PPPP-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-47-a Operator: SCC

17 Benzo(a)anthracene



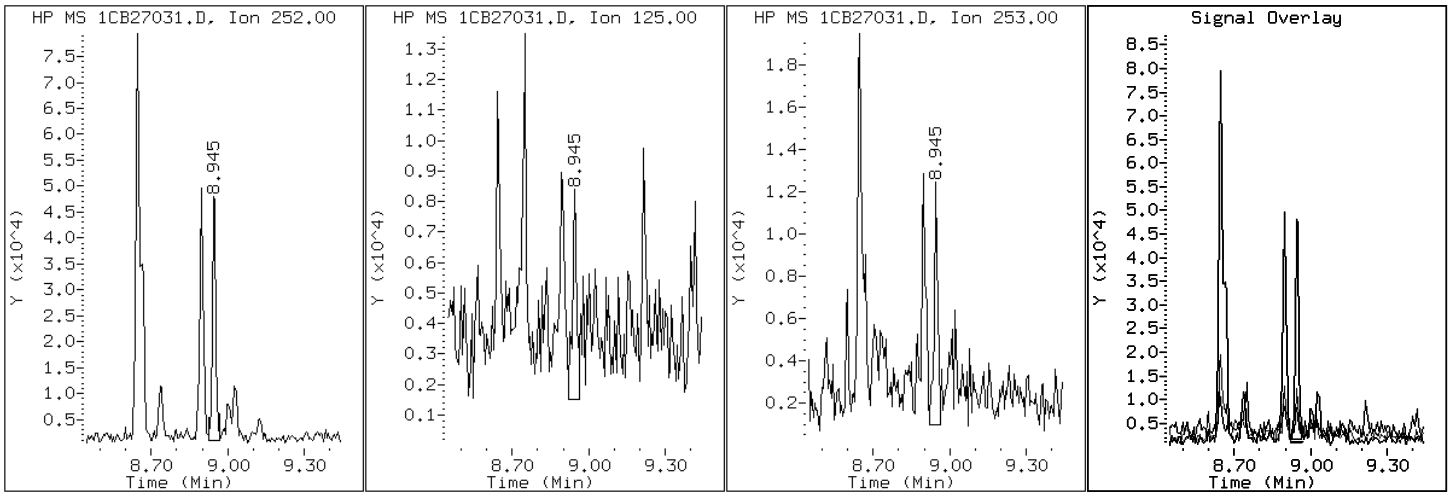
Data File: 1CB27031.D

Date: 27-FEB-2013 21:08

Client ID: FM0161PPPP-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-47-a Operator: SCC

22 Benzo(a)pyrene



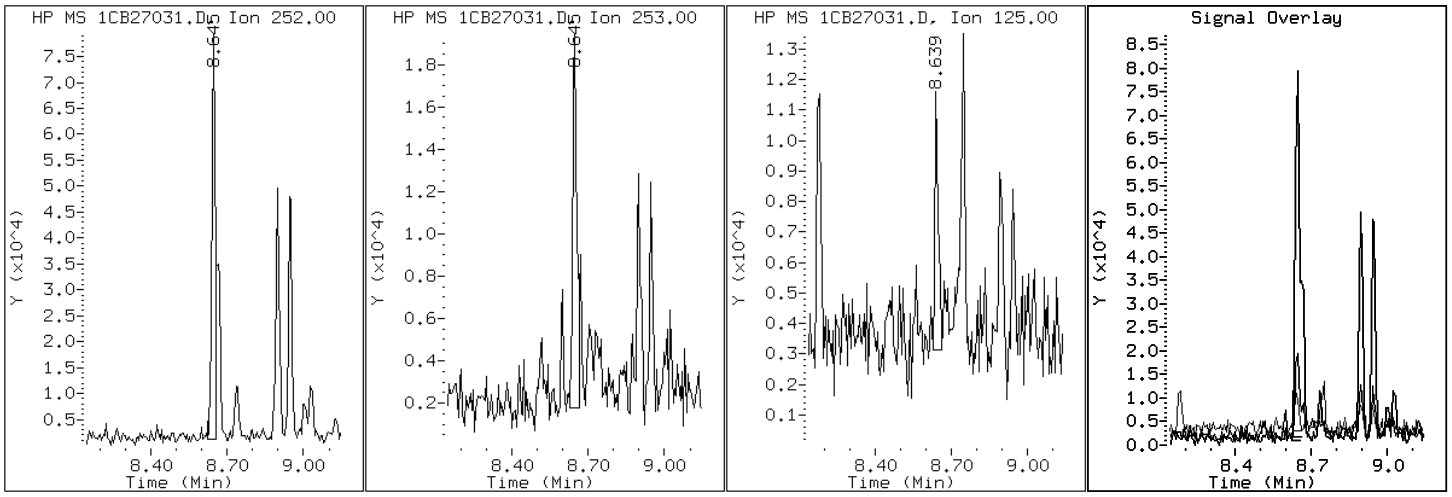
Data File: 1CB27031.D

Date: 27-FEB-2013 21:08

Client ID: FM0161PPPP-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-47-a Operator: SCC

20 Benzo(b)fluoranthene



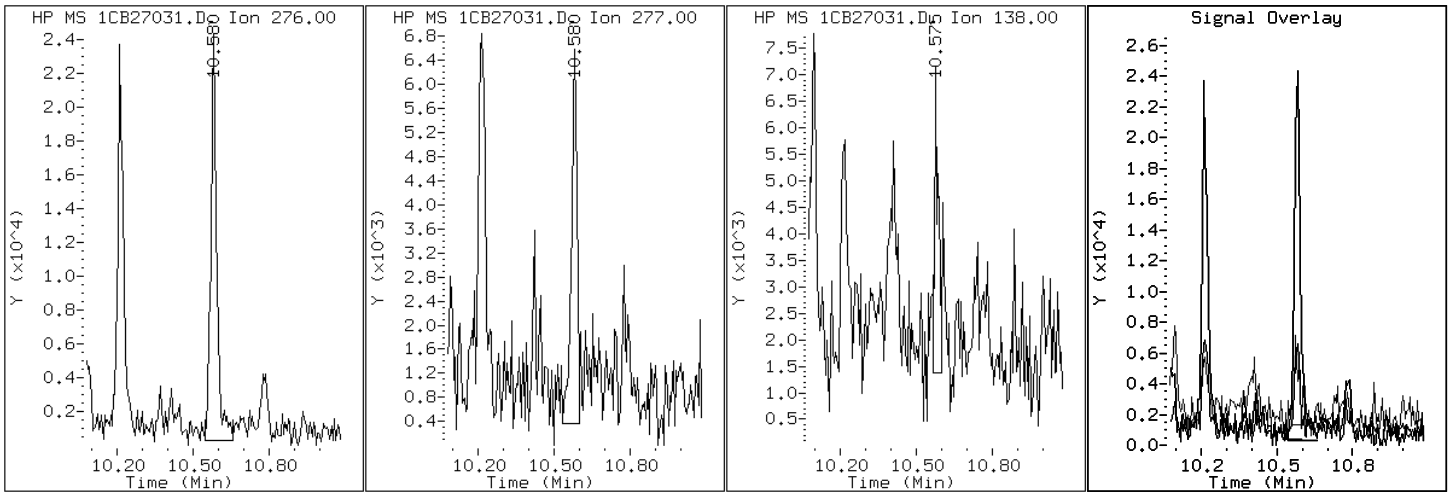
Data File: 1CB27031.D

Date: 27-FEB-2013 21:08

Client ID: FM0161PPPP-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-47-a Operator: SCC

26 Benzo(g,h,i)perylene



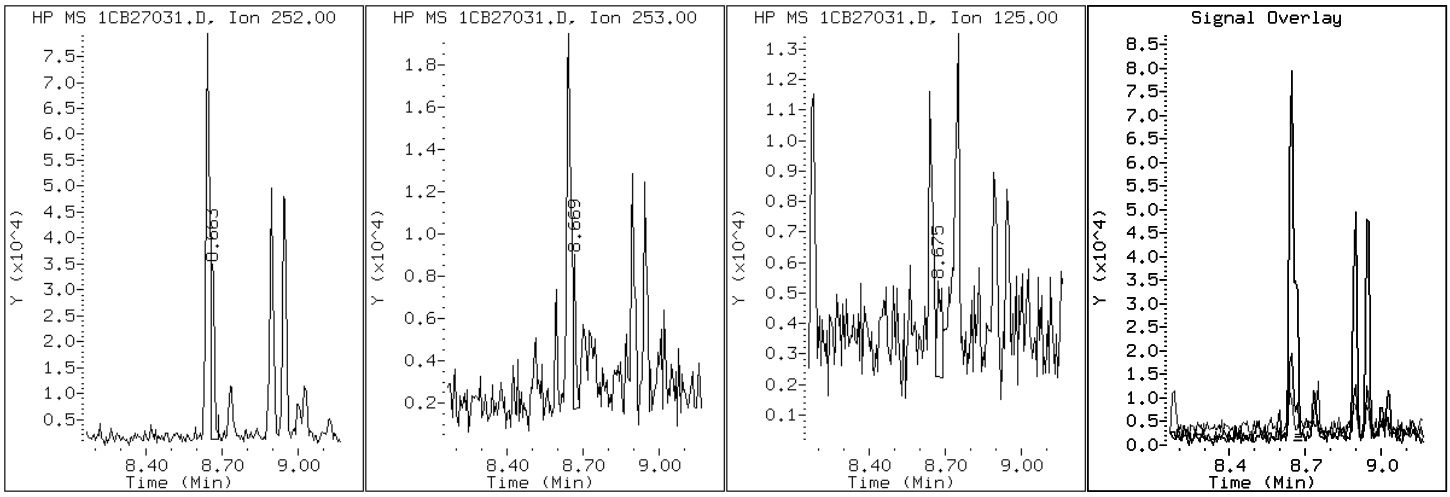
Data File: 1CB27031.D

Date: 27-FEB-2013 21:08

Client ID: FM0161PPPP-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-47-a Operator: SCC

21 Benzo(k)fluoranthene



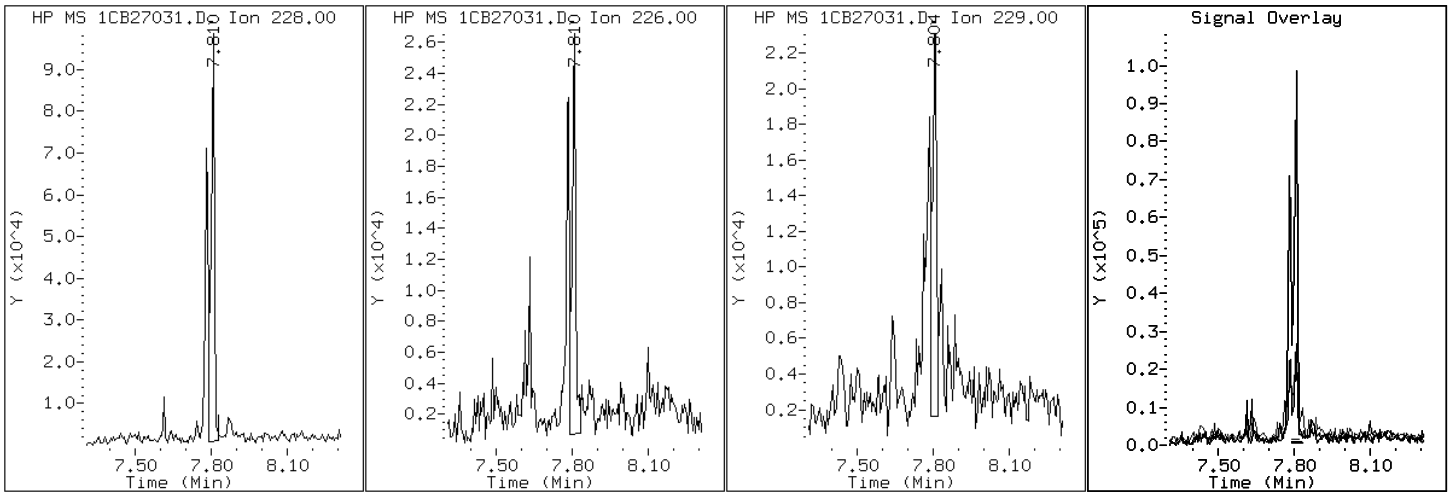
Data File: 1CB27031.D

Date: 27-FEB-2013 21:08

Client ID: FM0161PPPP-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-47-a Operator: SCC

19 Chrysene



Data File: 1CB27031.D

Date: 27-FEB-2013 21:08

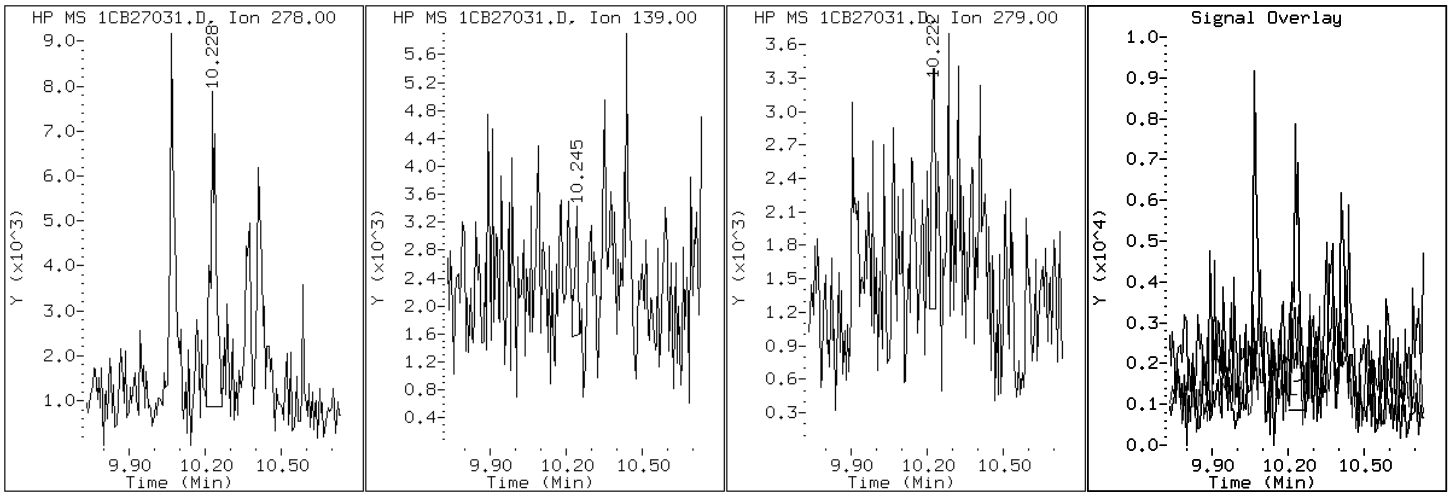
Client ID: FM0161PPPP-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-47-a

Operator: SCC

25 Dibenzo(a,h)anthracene



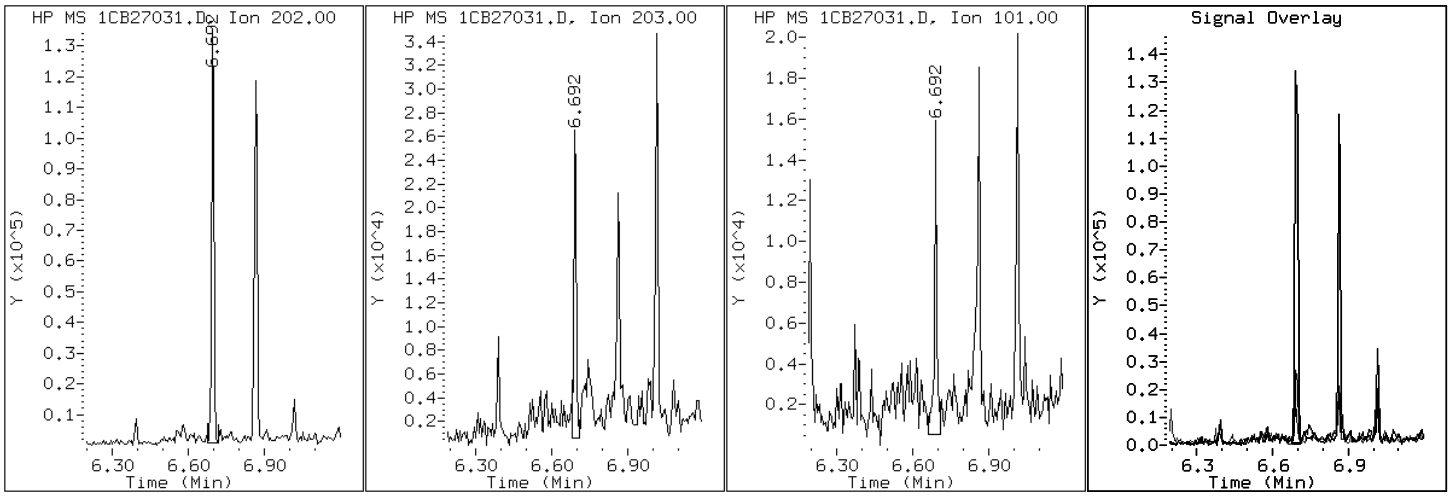
Data File: 1CB27031.D

Date: 27-FEB-2013 21:08

Client ID: FM0161PPPP-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-47-a Operator: SCC

15 Fluoranthene



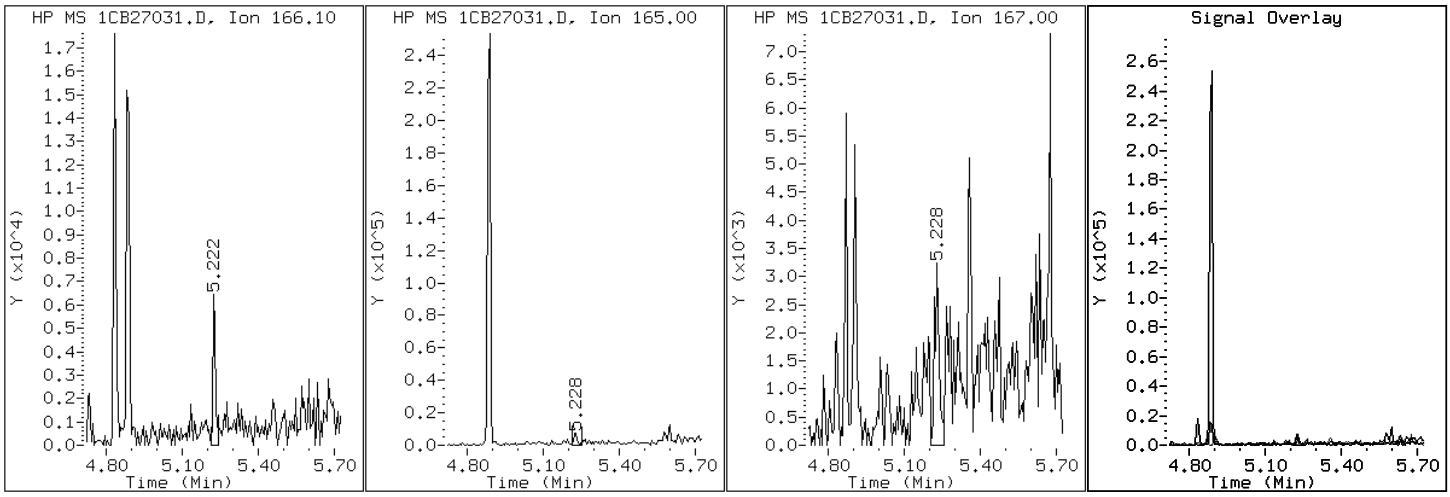
Data File: 1CB27031.D

Date: 27-FEB-2013 21:08

Client ID: FM0161PPPP-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-47-a Operator: SCC

9 Fluorene



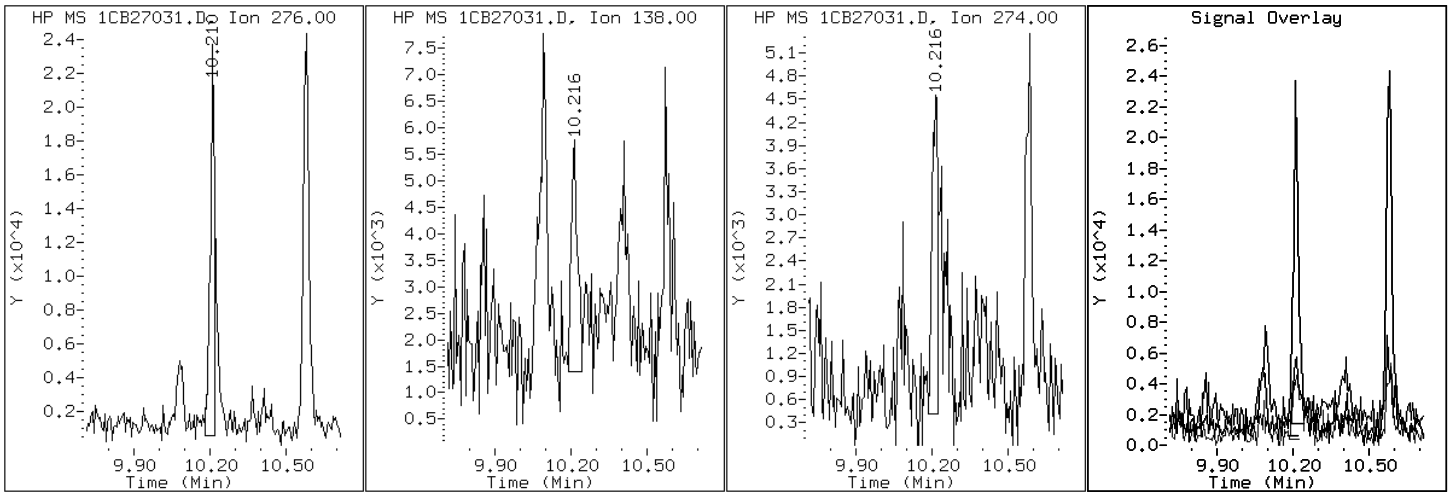
Data File: 1CB27031.D

Date: 27-FEB-2013 21:08

Client ID: FM0161PPPP-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-47-a Operator: SCC

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



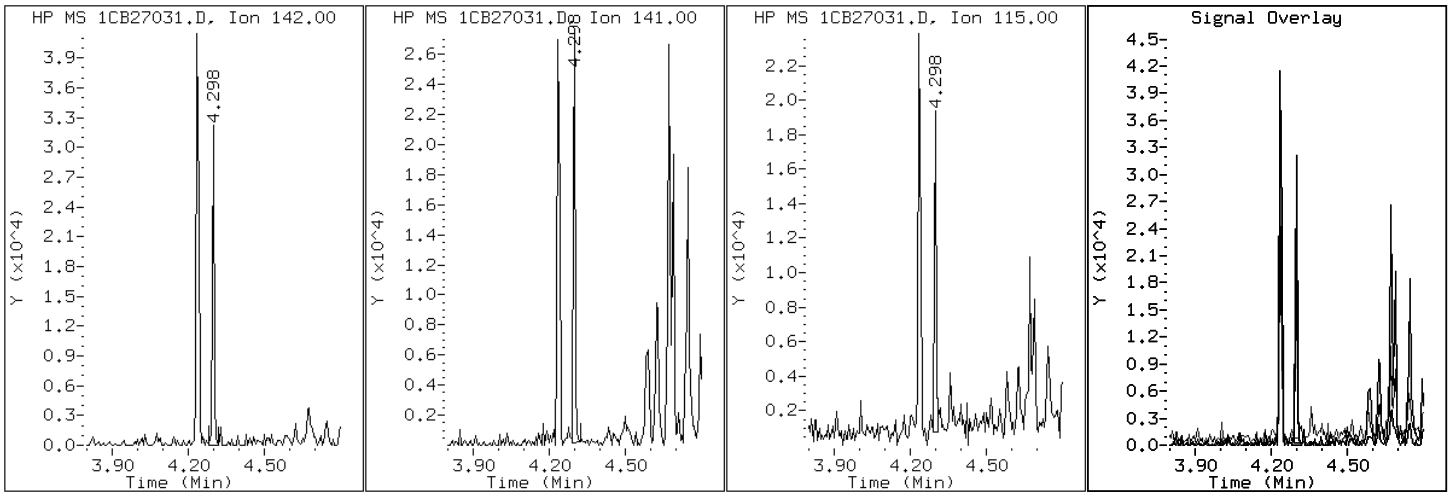
Data File: 1CB27031.D

Date: 27-FEB-2013 21:08

Client ID: FM0161PPPP-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-47-a Operator: SCC

4 1-Methylnaphthalene



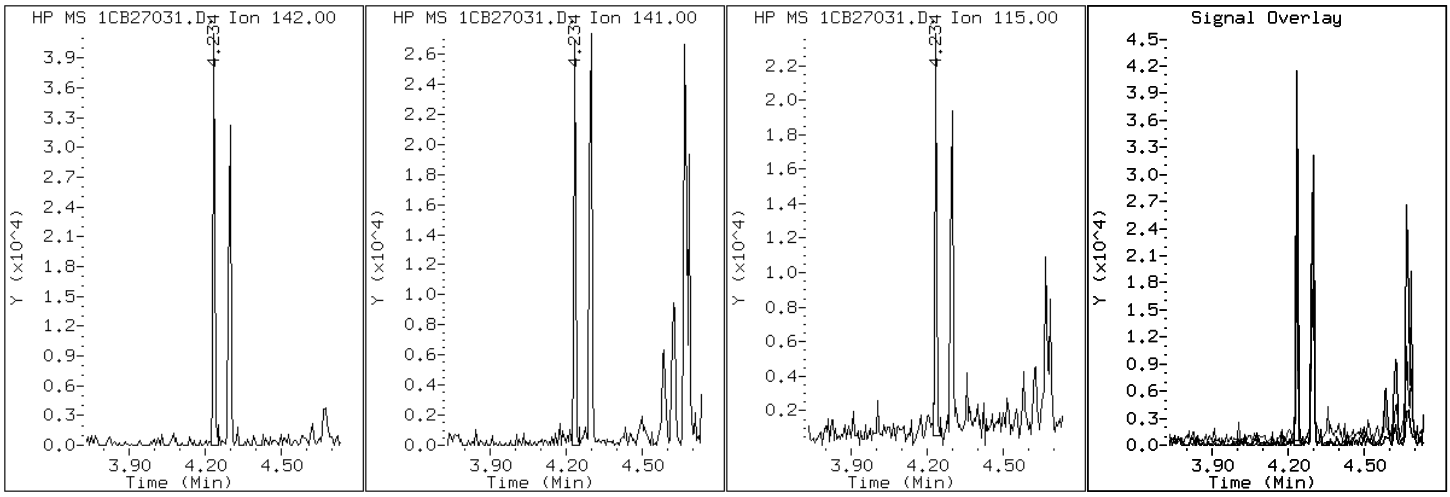
Data File: 1CB27031.D

Date: 27-FEB-2013 21:08

Client ID: FM0161PPPP-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-47-a Operator: SCC

3 2-Methylnaphthalene



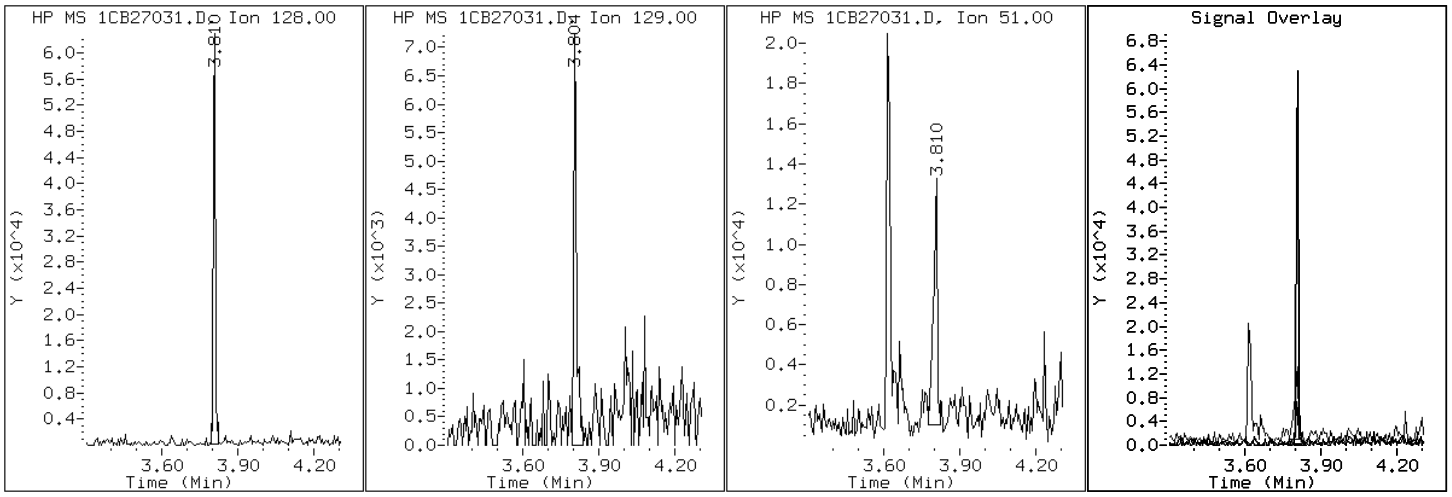
Data File: 1CB27031.D

Date: 27-FEB-2013 21:08

Client ID: FM0161PPPP-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-47-a Operator: SCC

2 Naphthalene



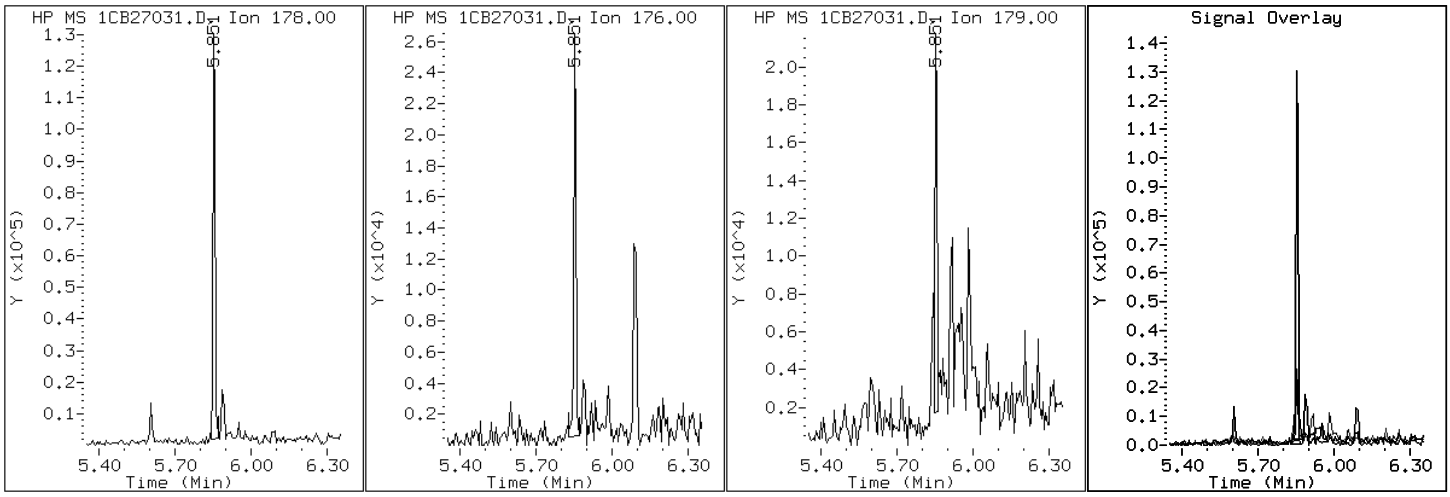
Data File: 1CB27031.D

Date: 27-FEB-2013 21:08

Client ID: FM0161PPPP-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-47-a Operator: SCC

11 Phenanthrene



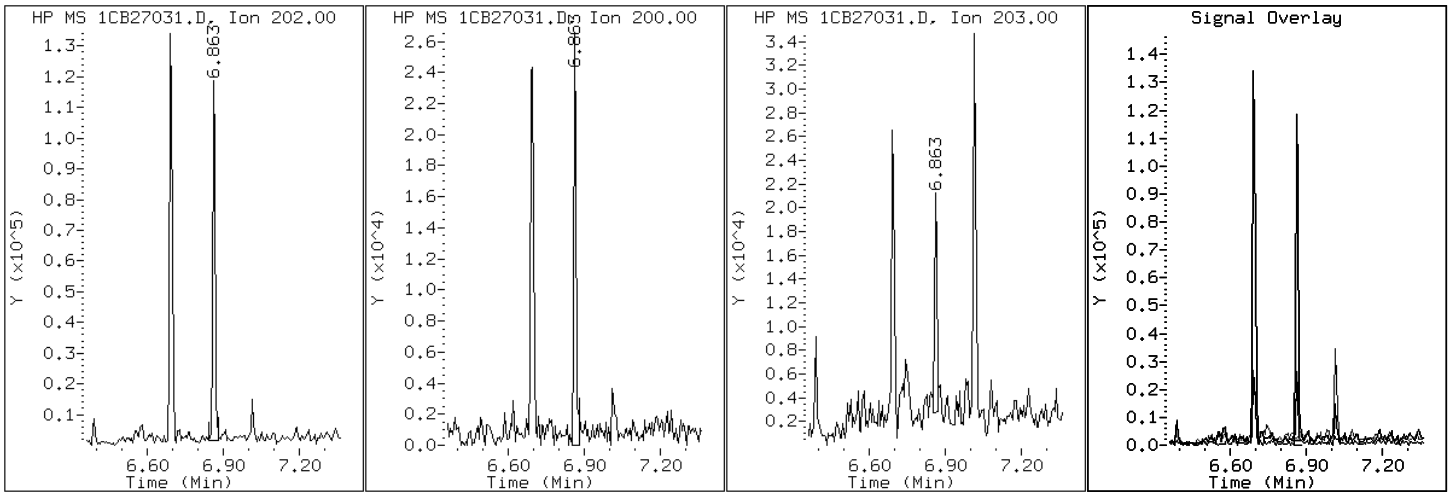
Data File: 1CB27031.D

Date: 27-FEB-2013 21:08

Client ID: FM0161PPPP-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-47-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB27031.D
Inj. Date and Time: 27-FEB-2013 21:08
Instrument ID: BSMC5973.i
Client ID: FM0161PPPP-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/01/2013

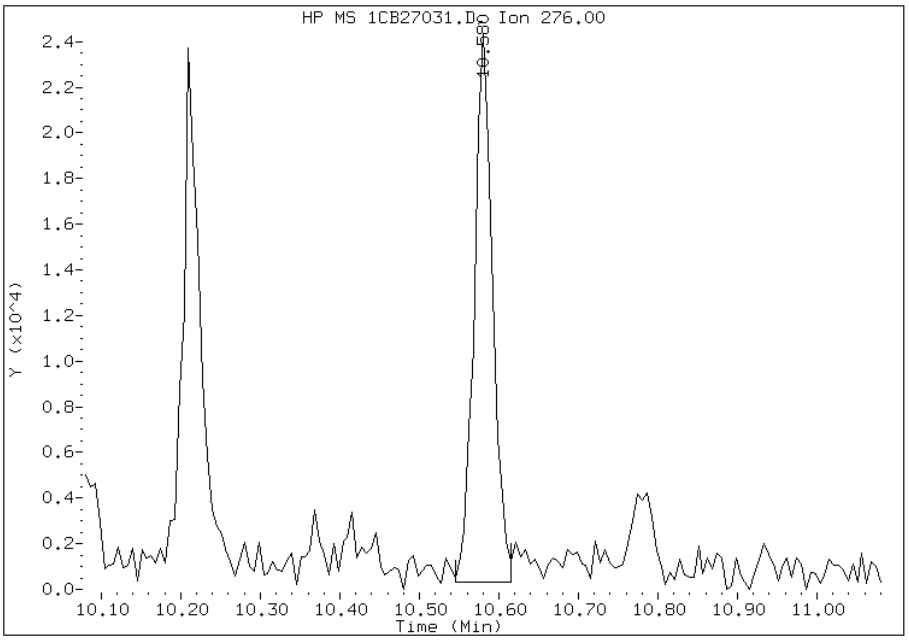
Processing Integration Results

RT: 10.58

Response: 38426

Amount: 1

Conc: 57



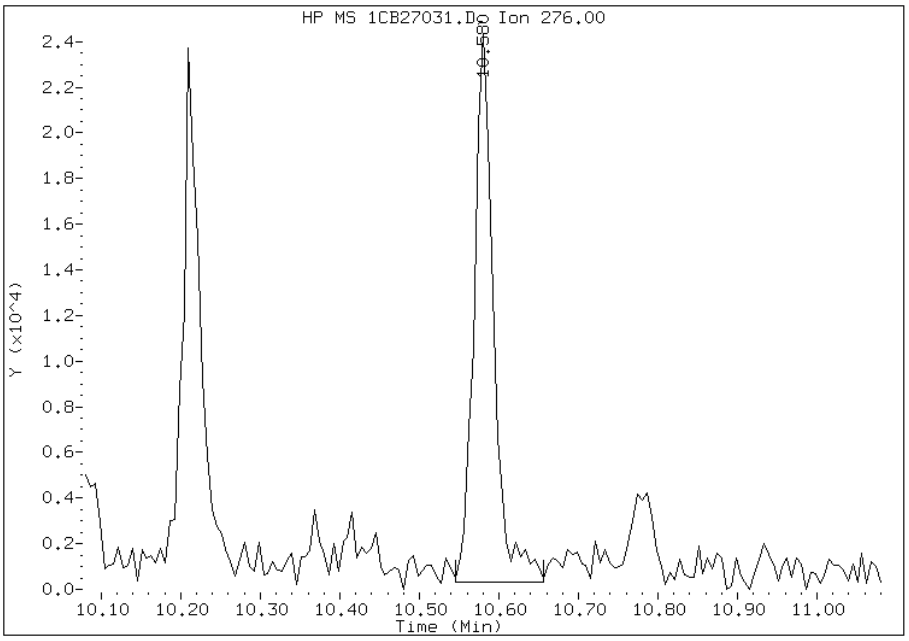
Manual Integration Results

RT: 10.58

Response: 41003

Amount: 1

Conc: 60



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:41
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB27031.D
Inj. Date and Time: 27-FEB-2013 21:08
Instrument ID: BSMC5973.i
Client ID: FM0161PPPP-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/01/2013

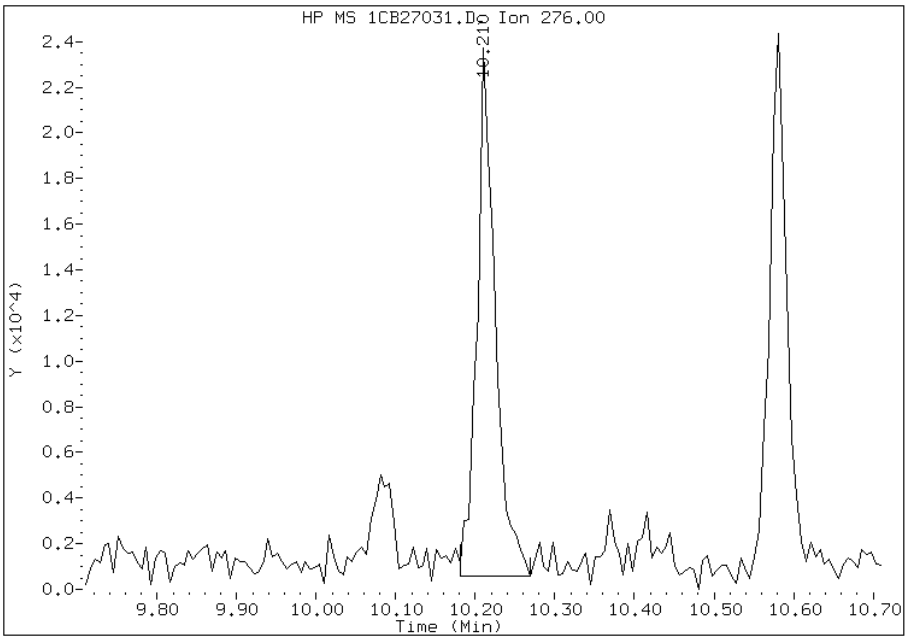
Processing Integration Results

RT: 10.21

Response: 36572

Amount: 1

Conc: 56



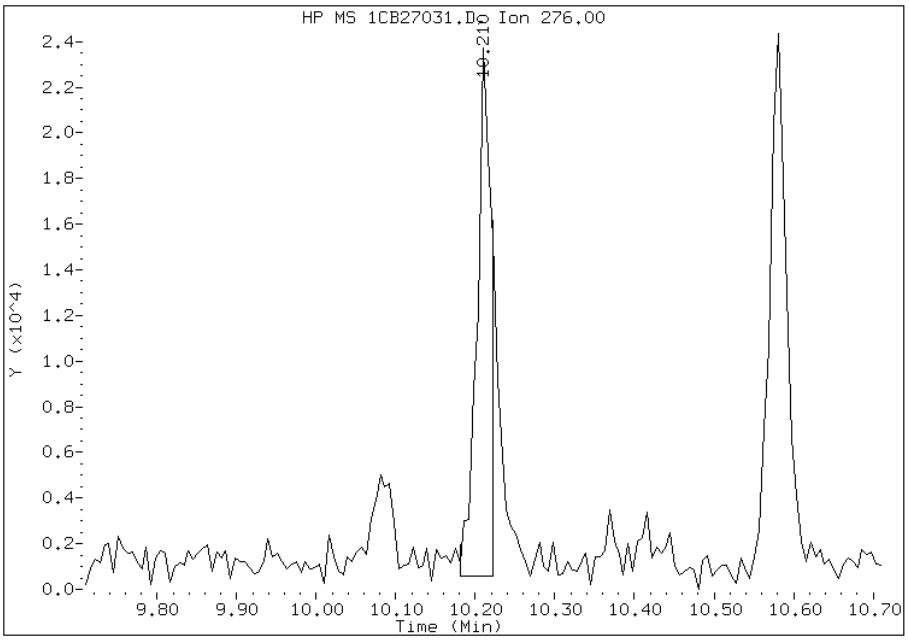
Manual Integration Results

RT: 10.21

Response: 28667

Amount: 0

Conc: 44



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:41
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87655-3

SDG No.: 68087655-3

Client Sample ID: FM0161PPPP-CSD | Lab Sample ID: 680-87655-48

Matrix: Solid | Lab File ID: 1CB27032.D

Analysis Method: 8270C LL | Date Collected: 02/19/2013 13:48

Extract. Method: 3546 | Date Extracted: 02/25/2013 14:06

Sample wt/vol: 14.93(g) | Date Analyzed: 02/27/2013 21:27

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

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

% Moisture: 20.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134903 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	8.7	J	51	6.3
120-12-7	Anthracene	17		11	5.3
56-55-3	Benzo[a]anthracene	86		10	4.9
50-32-8	Benzo[a]pyrene	80		13	6.6
205-99-2	Benzo[b]fluoranthene	130		15	7.7
191-24-2	Benzo[g,h,i]perylene	58		25	5.6
207-08-9	Benzo[k]fluoranthene	61		10	4.6
218-01-9	Chrysene	110		11	5.7
53-70-3	Dibenz(a,h)anthracene	19	J	25	5.2
206-44-0	Fluoranthene	150		25	5.1
86-73-7	Fluorene	13	J	25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	56		25	9.0
90-12-0	1-Methylnaphthalene	56		51	5.6
91-57-6	2-Methylnaphthalene	85		51	9.0
91-20-3	Naphthalene	86		51	5.6
85-01-8	Phenanthrene	110		10	4.9
129-00-0	Pyrene	140		25	4.7

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\BSMC5973.i\1C022713.b\1CB27032.D
Lab Smp Id: 680-87655-A-48-A Client Smp ID: FM0161PPPP-CSD
Inj Date : 27-FEB-2013 21:27
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87655-a-48-a
Misc Info : 680-87655-A-48-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\a-bFASTPAHi-m.m
Meth Date : 27-Feb-2013 16:31 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.930	Weight Extracted
M	20.690	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.792	3.792	(1.000)	1703498	40.0000	
* 6 Acenaphthene-d10	164	4.886	4.880	(1.000)	1371678	40.0000	
* 10 Phenanthrene-d10	188	5.839	5.839	(1.000)	2543283	40.0000	
$ 14 o-Terphenyl	230	6.092	6.092	(1.043)	260932	6.79524	573.8720
* 18 Chrysene-d12	240	7.792	7.792	(1.000)	2609879	40.0000	
* 23 Perylene-d12	264	9.009	9.004	(1.000)	2457613	40.0000	
2 Naphthalene	128	3.810	3.804	(1.005)	45042	1.01564	85.7727
3 2-Methylnaphthalene	142	4.233	4.233	(1.116)	29661	1.00266	84.6765
4 1-Methylnaphthalene	142	4.298	4.298	(1.133)	17869	0.66323	56.0109
5 Acenaphthylene	152	4.798	4.798	(0.982)	5669	0.10251	8.6572
9 Fluorene	166	5.227	5.221	(1.070)	6805	0.15654	13.2202(Q)
11 Phenanthrene	178	5.851	5.851	(1.002)	99551	1.35369	114.3218
12 Anthracene	178	5.886	5.886	(1.008)	14649	0.20368	17.2010
13 Carbazole	167	5.998	5.992	(1.027)	12111	0.18943	15.9977
15 Fluoranthene	202	6.698	6.698	(1.147)	146840	1.82329	153.9806

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.862	6.863	(0.881)	120353	1.71598	144.9177
17 Benzo(a)anthracene	228	7.780	7.780	(0.998)	76994	1.02214	86.3219
19 Chrysene	228	7.809	7.810	(1.002)	100662	1.33535	112.7727
20 Benzo(b)fluoranthene	252	8.645	8.645	(0.960)	101481	1.58005	133.4382
21 Benzo(k)fluoranthene	252	8.662	8.668	(0.961)	47346	0.71860	60.6872
22 Benzo(a)pyrene	252	8.951	8.945	(0.993)	58967	0.94521	79.8250
24 Indeno(1,2,3-cd)pyrene	276	10.209	10.215	(1.133)	38574	0.65729	55.5092(M)
25 Dibenzo(a,h)anthracene	278	10.239	10.233	(1.136)	12889	0.22453	18.9622
26 Benzo(g,h,i)perylene	276	10.580	10.580	(1.174)	42242	0.68808	58.1097

QC Flag Legend

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

Data File: 1CB27032.D

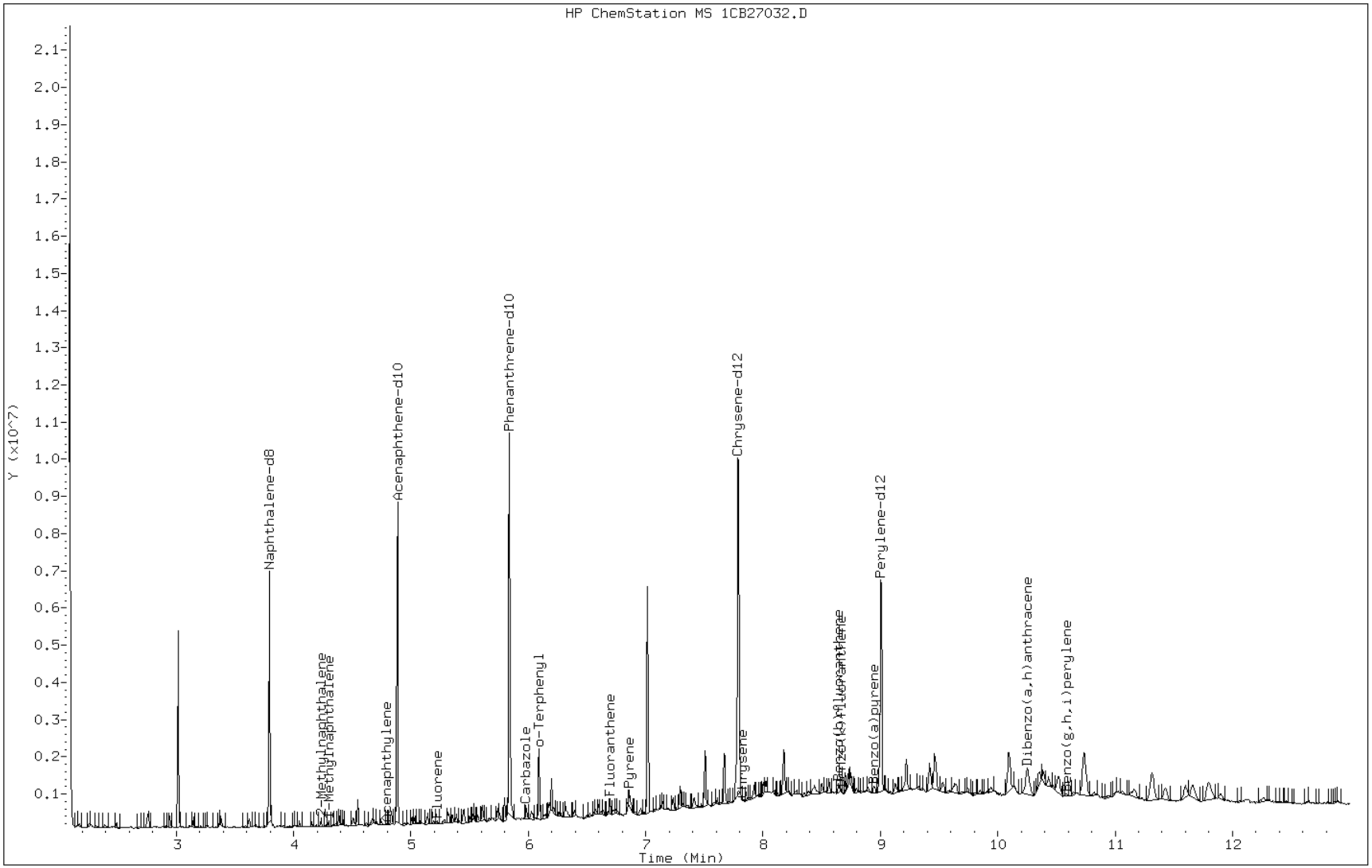
Date: 27-FEB-2013 21:27

Client ID: FM0161PPPP-CSD

Instrument: BSMC5973.i

Sample Info: 680-87655-a-48-a

Operator: SCC



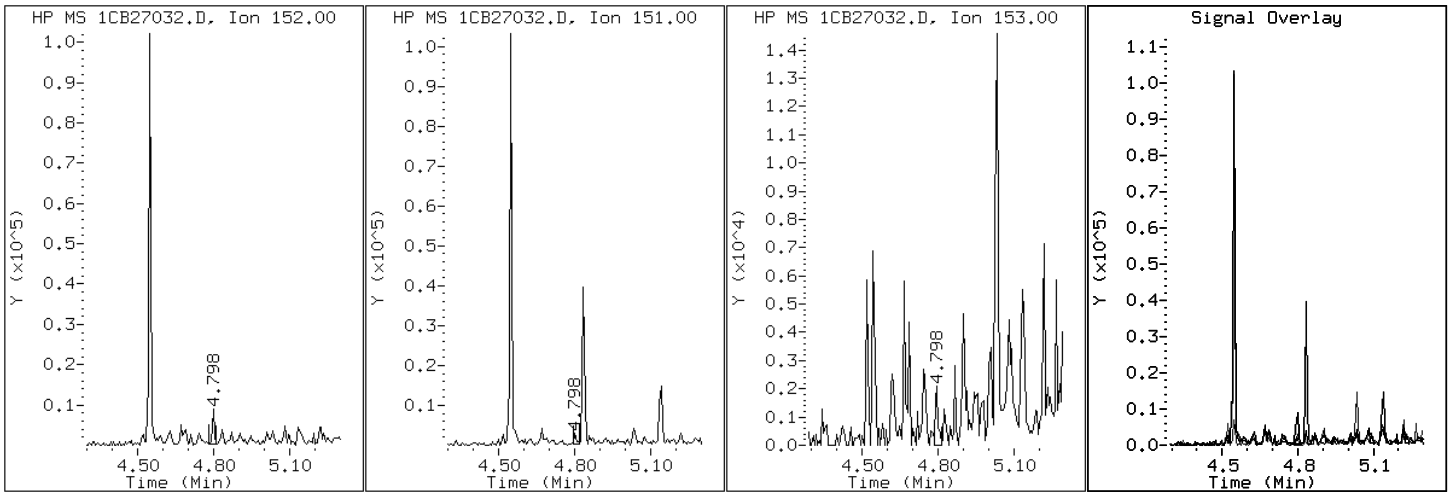
Data File: 1CB27032.D

Date: 27-FEB-2013 21:27

Client ID: FM0161PPPP-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-48-a Operator: SCC

5 Acenaphthylene



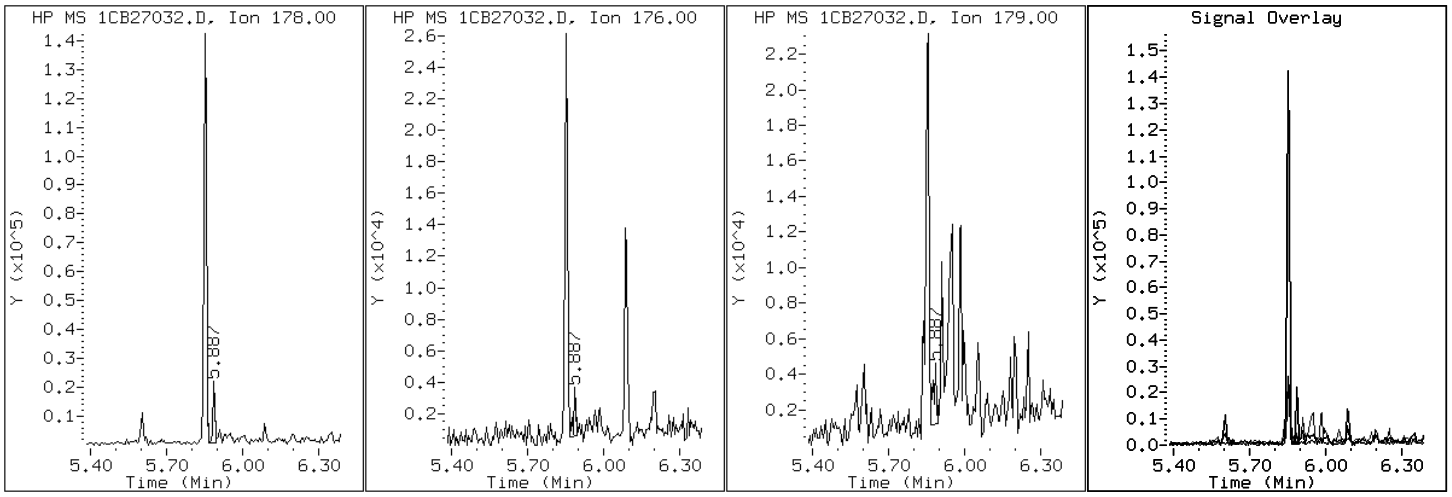
Data File: 1CB27032.D

Date: 27-FEB-2013 21:27

Client ID: FM0161PPPP-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-48-a Operator: SCC

12 Anthracene



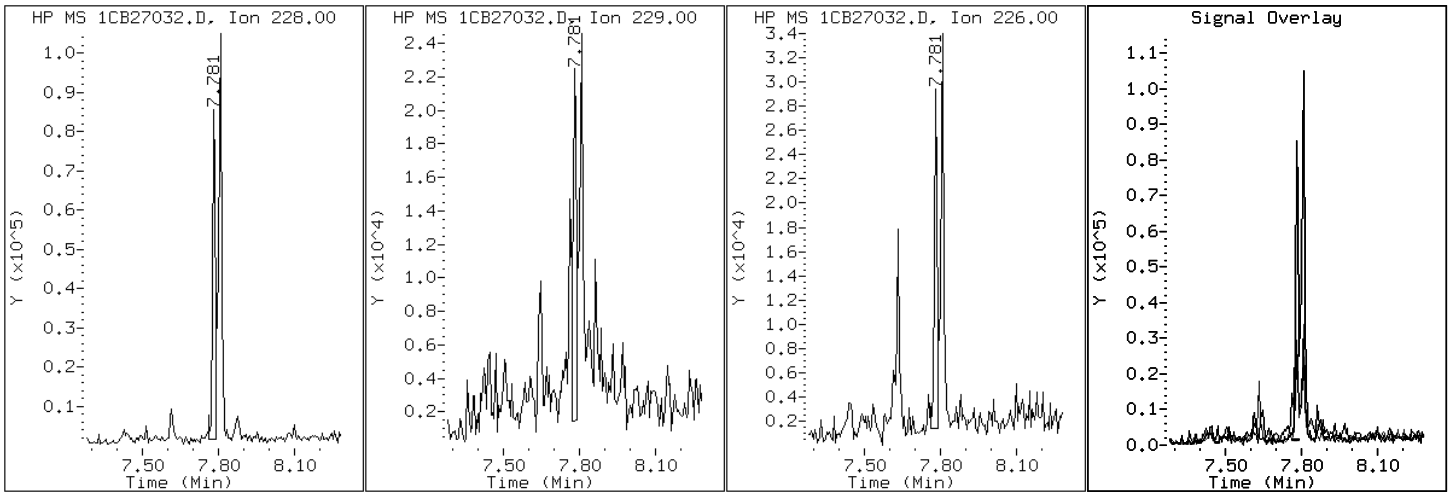
Data File: 1CB27032.D

Date: 27-FEB-2013 21:27

Client ID: FM0161PPPP-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-48-a Operator: SCC

17 Benzo(a)anthracene



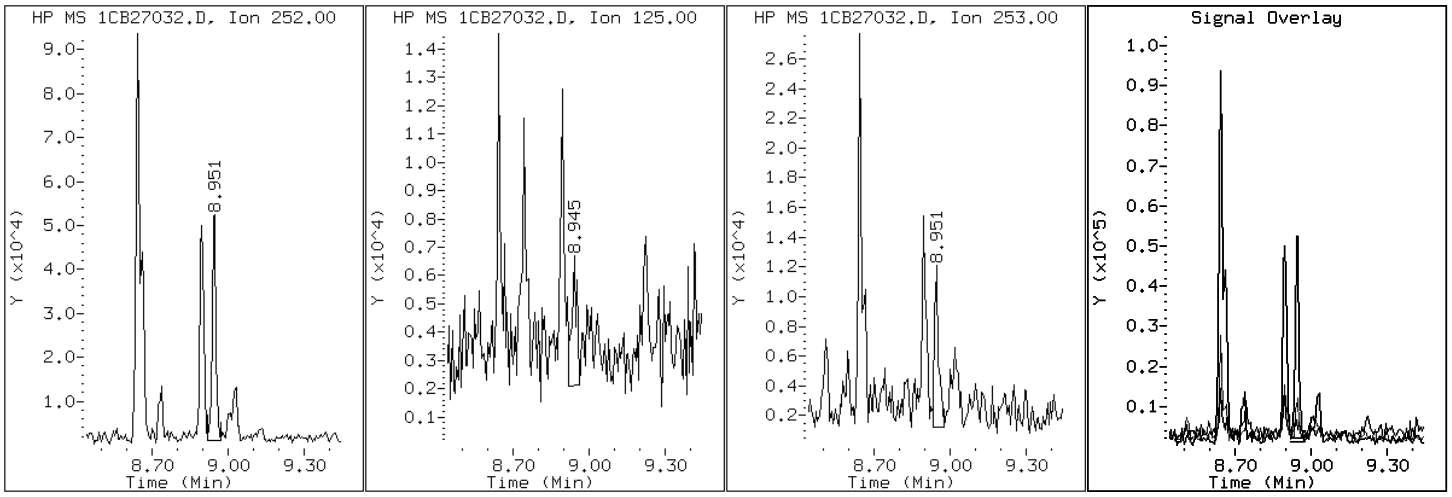
Data File: 1CB27032.D

Date: 27-FEB-2013 21:27

Client ID: FM0161PPPP-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-48-a Operator: SCC

22 Benzo(a)pyrene



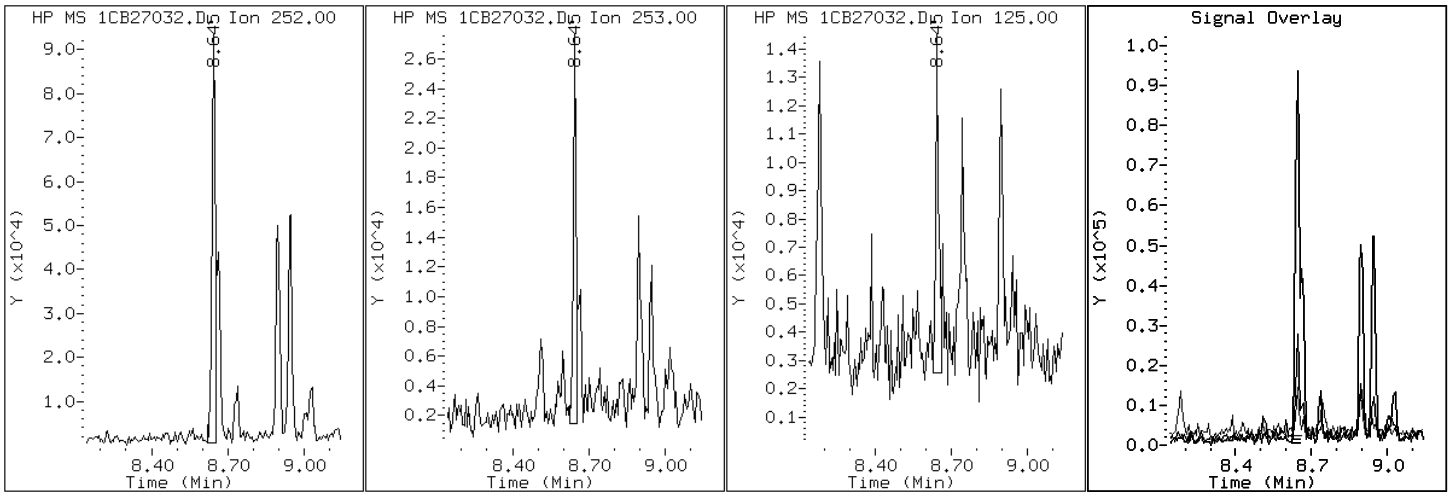
Data File: 1CB27032.D

Date: 27-FEB-2013 21:27

Client ID: FM0161PPPP-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-48-a Operator: SCC

20 Benzo(b)fluoranthene



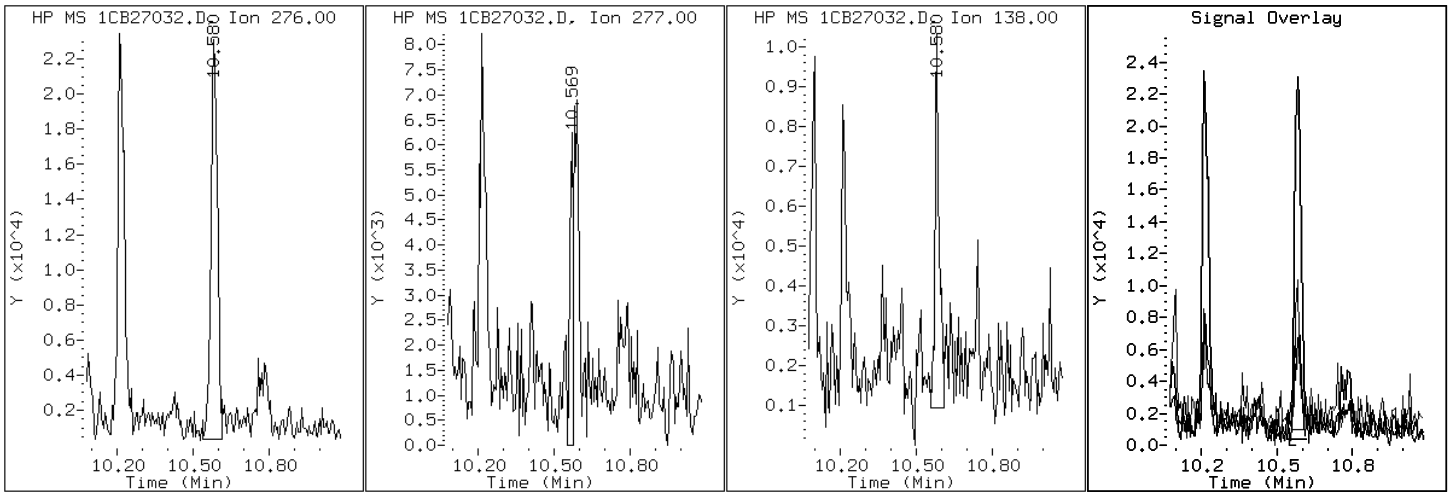
Data File: 1CB27032.D

Date: 27-FEB-2013 21:27

Client ID: FM0161PPPP-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-48-a Operator: SCC

26 Benzo(g,h,i)perylene



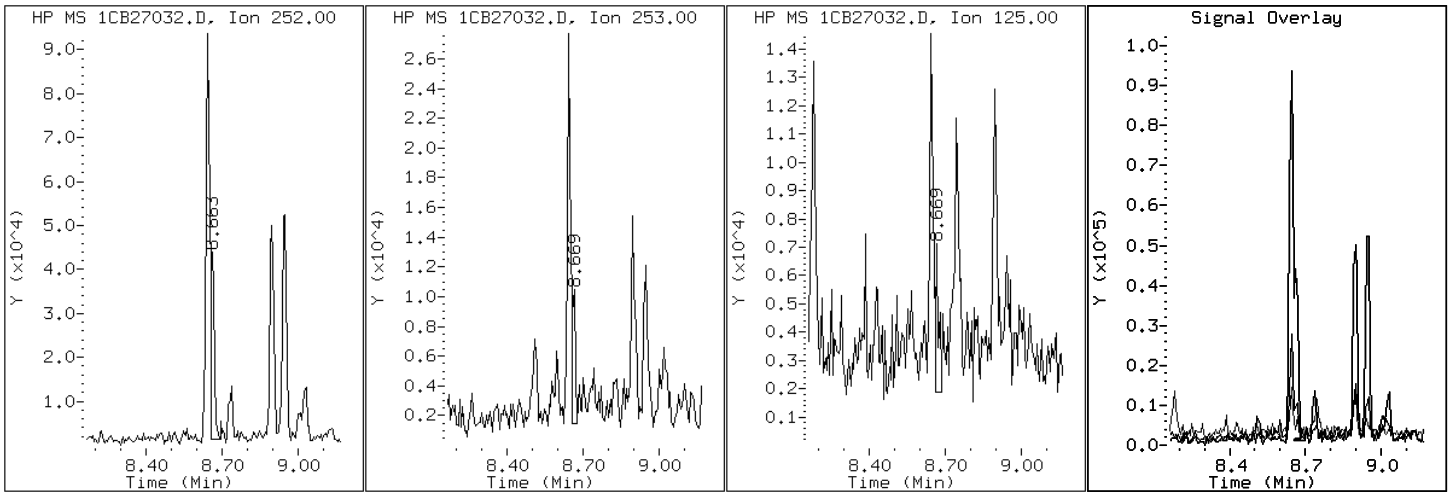
Data File: 1CB27032.D

Date: 27-FEB-2013 21:27

Client ID: FM0161PPPP-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-48-a Operator: SCC

21 Benzo(k)fluoranthene



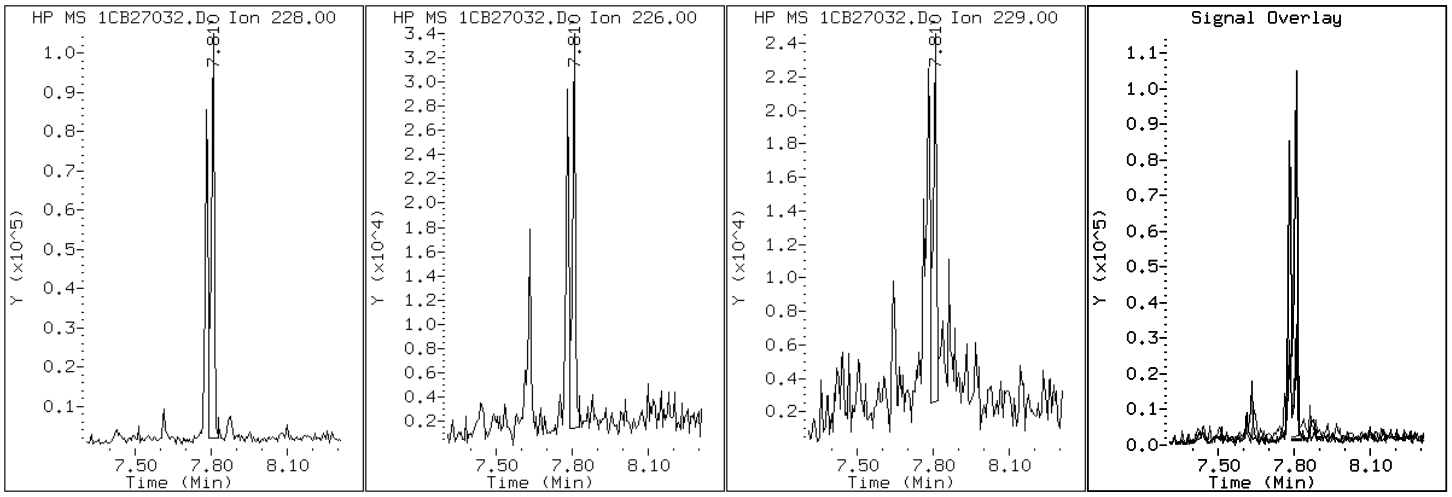
Data File: 1CB27032.D

Date: 27-FEB-2013 21:27

Client ID: FM0161PPPP-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-48-a Operator: SCC

19 Chrysene



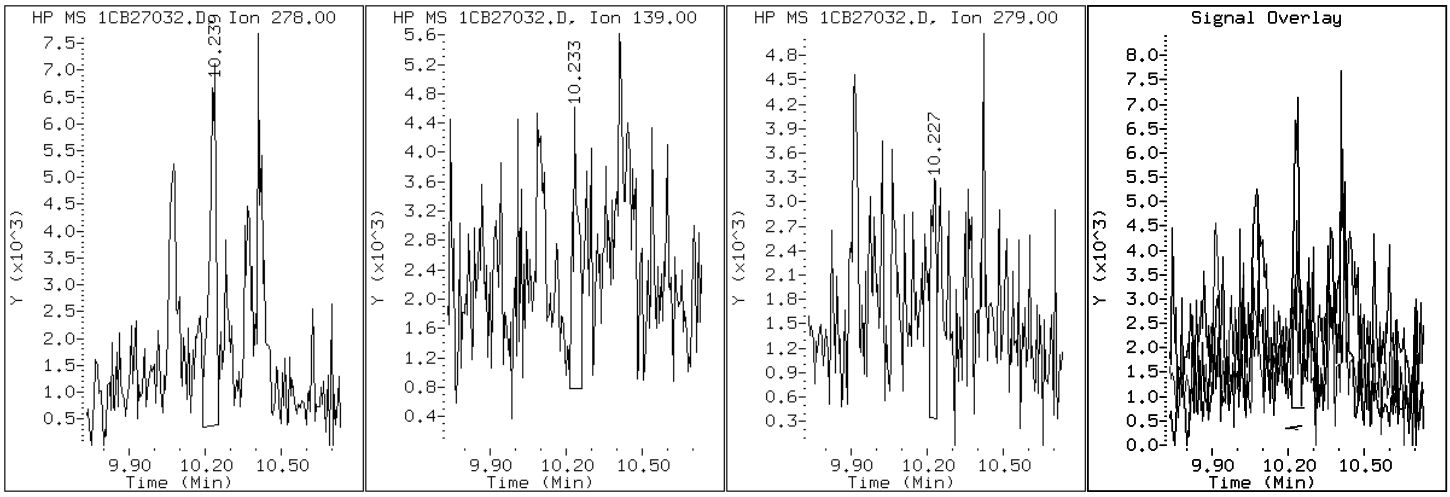
Data File: 1CB27032.D

Date: 27-FEB-2013 21:27

Client ID: FM0161PPPP-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-48-a Operator: SCC

25 Dibenzo(a,h)anthracene



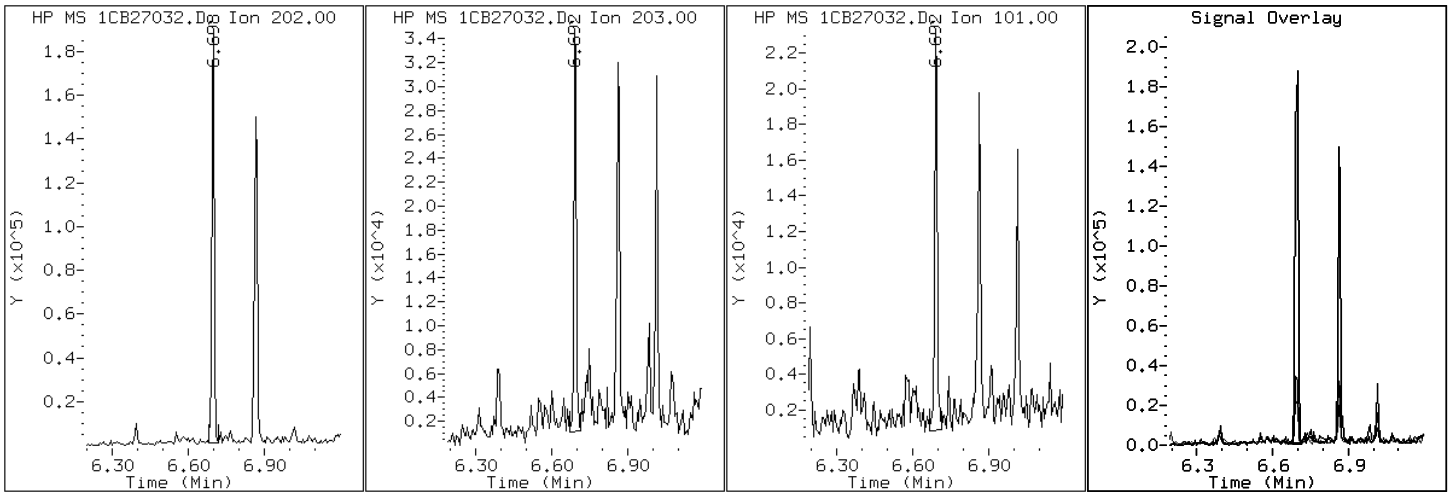
Data File: 1CB27032.D

Date: 27-FEB-2013 21:27

Client ID: FM0161PPPP-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-48-a Operator: SCC

15 Fluoranthene



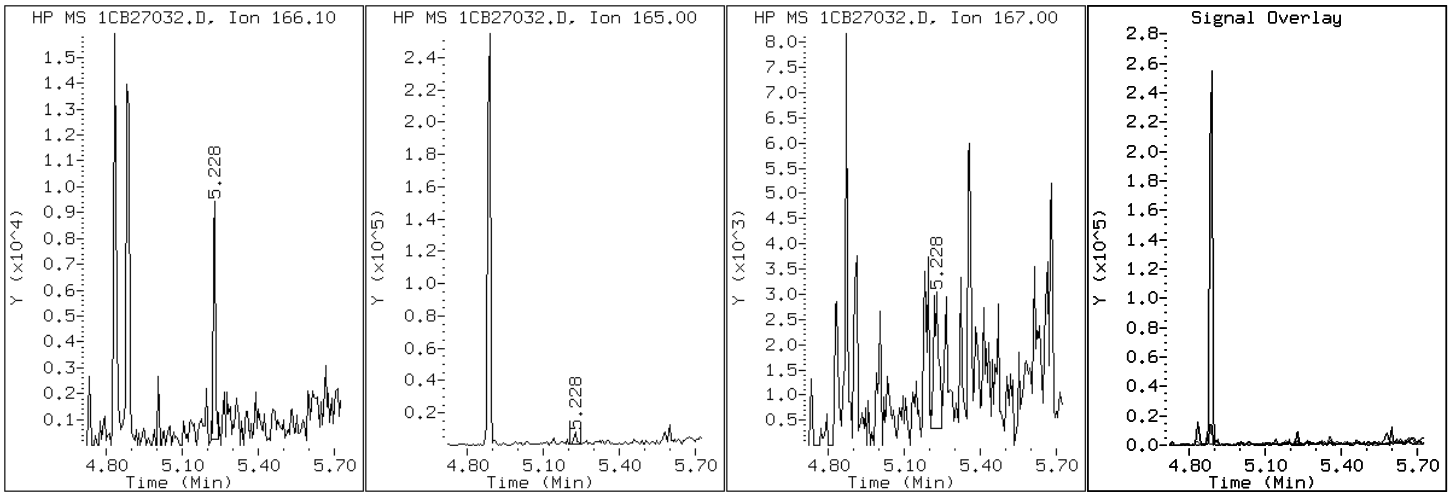
Data File: 1CB27032.D

Date: 27-FEB-2013 21:27

Client ID: FM0161PPPP-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-48-a Operator: SCC

9 Fluorene



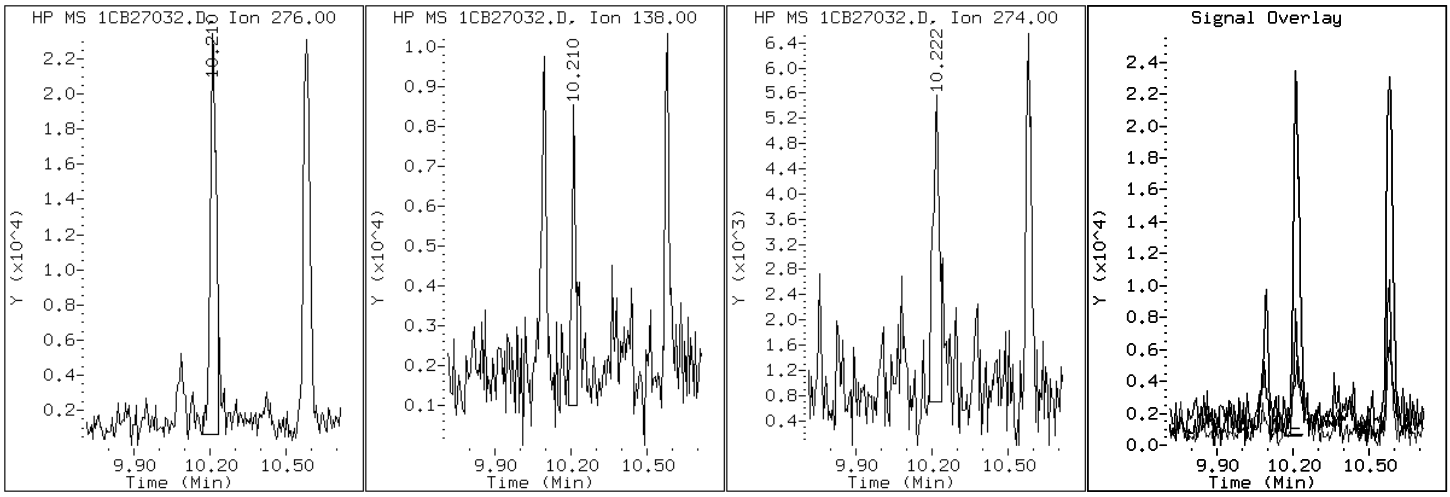
Data File: 1CB27032.D

Date: 27-FEB-2013 21:27

Client ID: FM0161PPPP-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-48-a Operator: SCC

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



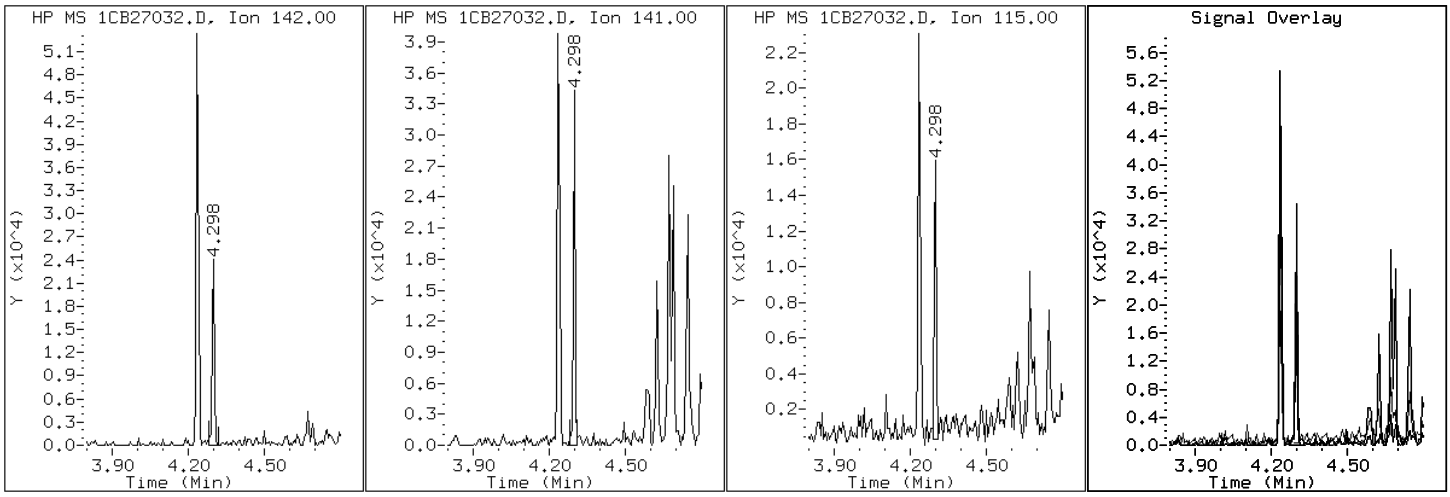
Data File: 1CB27032.D

Date: 27-FEB-2013 21:27

Client ID: FM0161PPPP-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-48-a Operator: SCC

4 1-Methylnaphthalene



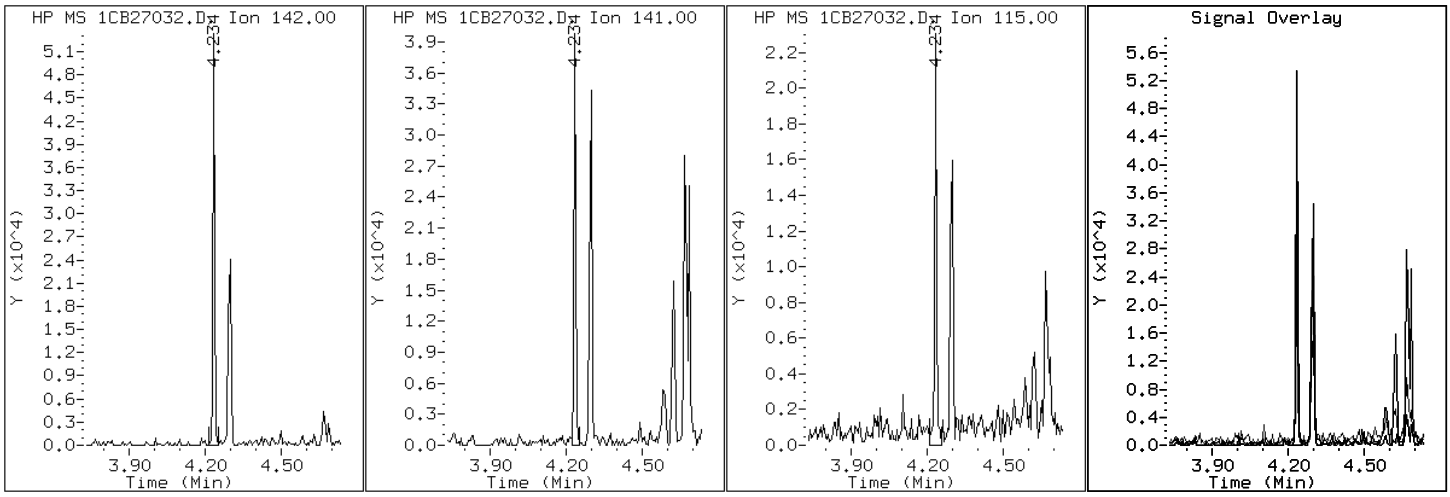
Data File: 1CB27032.D

Date: 27-FEB-2013 21:27

Client ID: FM0161PPPP-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-48-a Operator: SCC

3 2-Methylnaphthalene



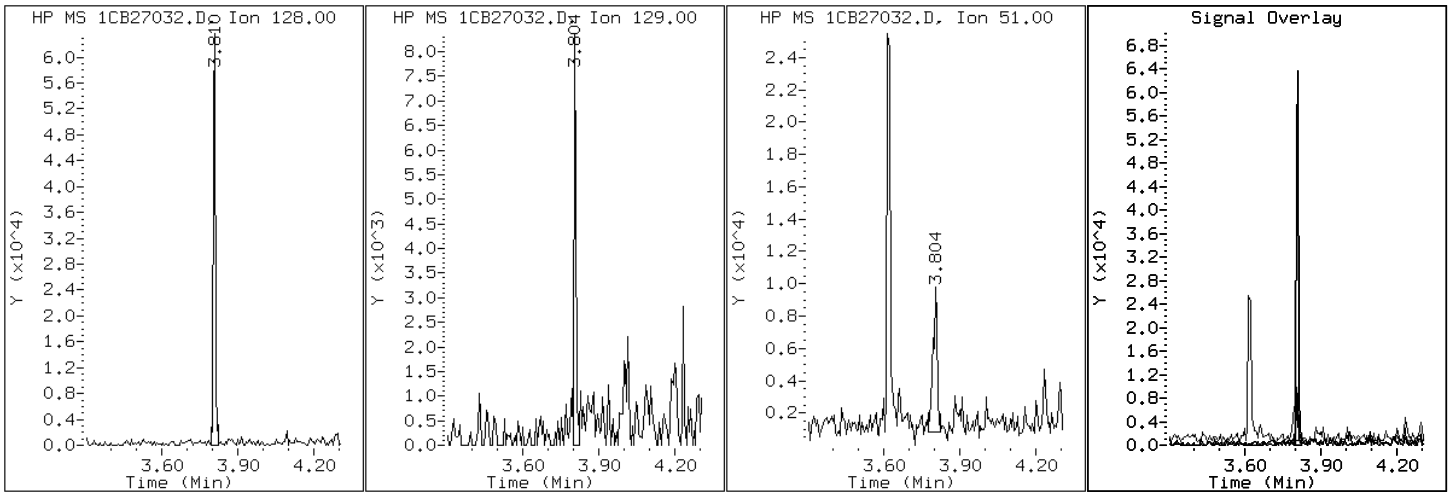
Data File: 1CB27032.D

Date: 27-FEB-2013 21:27

Client ID: FM0161PPPP-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-48-a Operator: SCC

2 Naphthalene



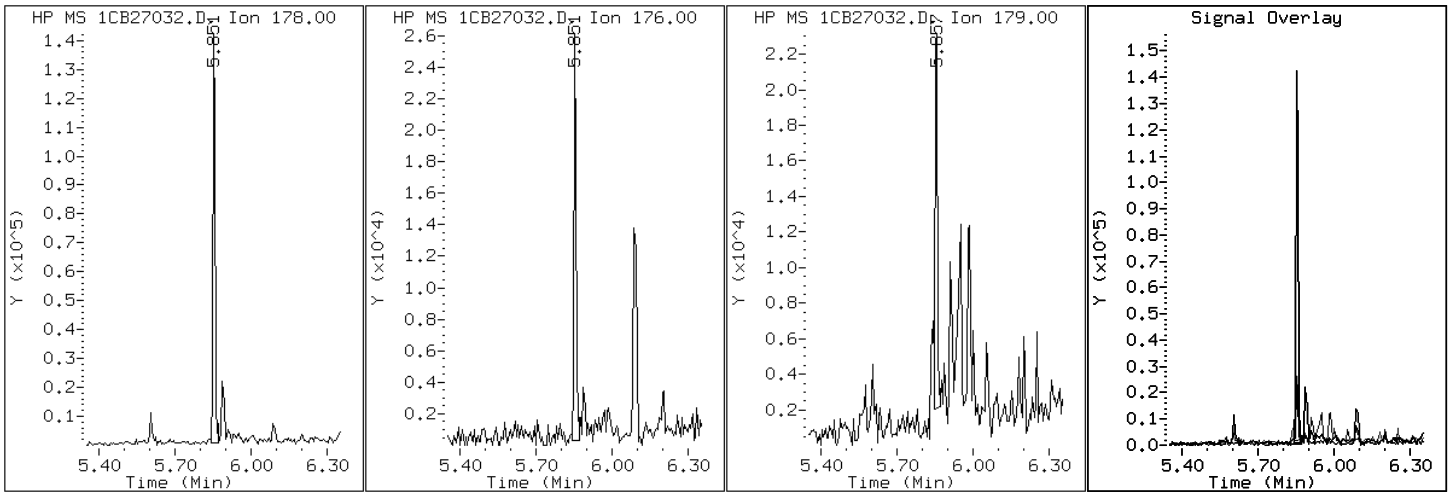
Data File: 1CB27032.D

Date: 27-FEB-2013 21:27

Client ID: FM0161PPPP-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-48-a Operator: SCC

11 Phenanthrene



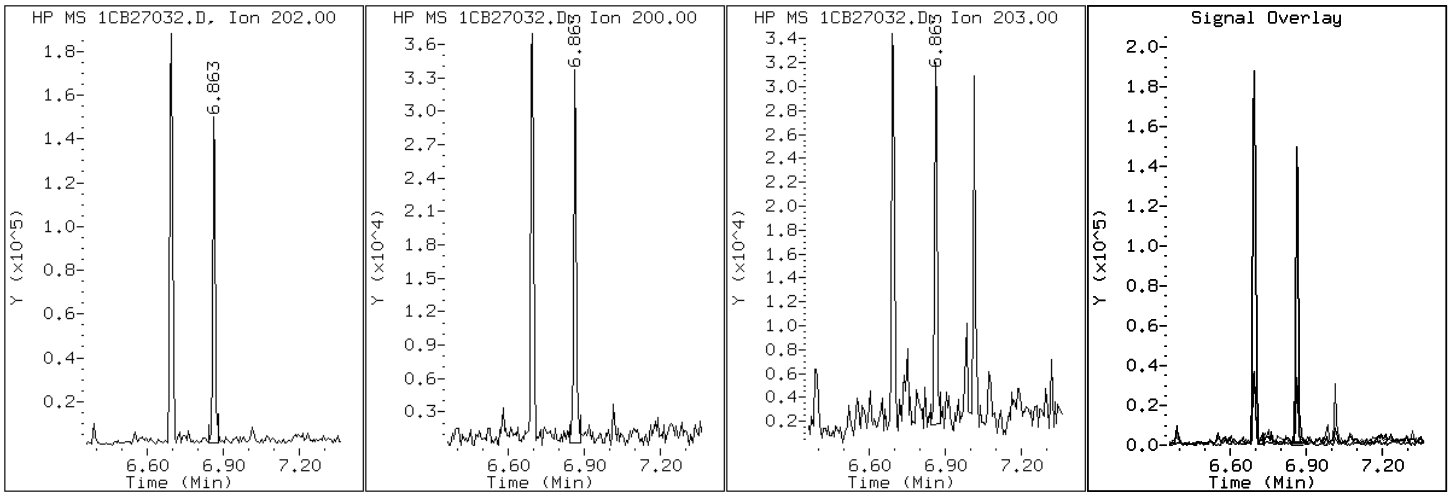
Data File: 1CB27032.D

Date: 27-FEB-2013 21:27

Client ID: FM0161PPPP-CSD Instrument: BSMC5973.i

Sample Info: 680-87655-a-48-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB27032.D
Inj. Date and Time: 27-FEB-2013 21:27
Instrument ID: BSMC5973.i
Client ID: FM0161PPPP-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/01/2013

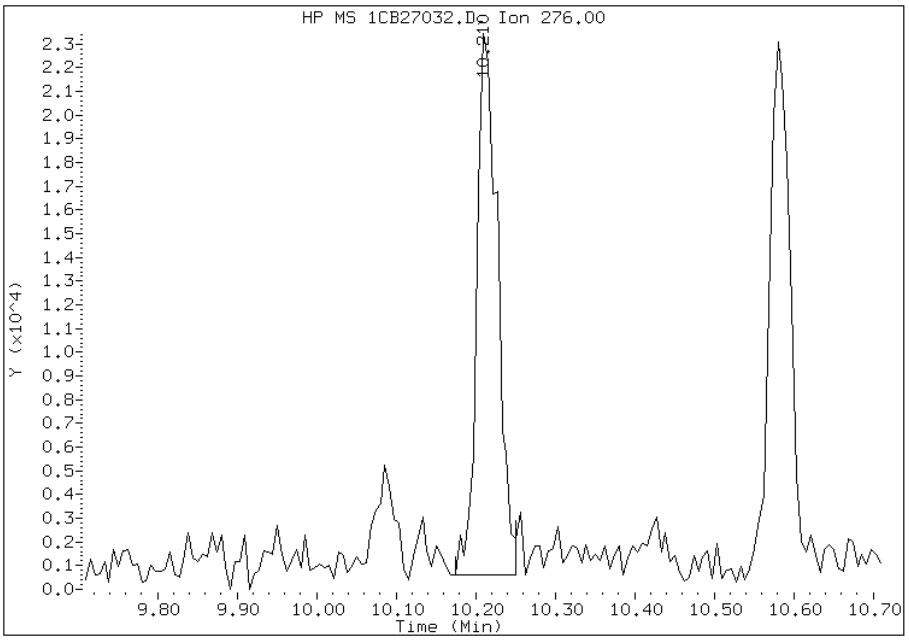
Processing Integration Results

RT: 10.21

Response: 41516

Amount: 1

Conc: 60



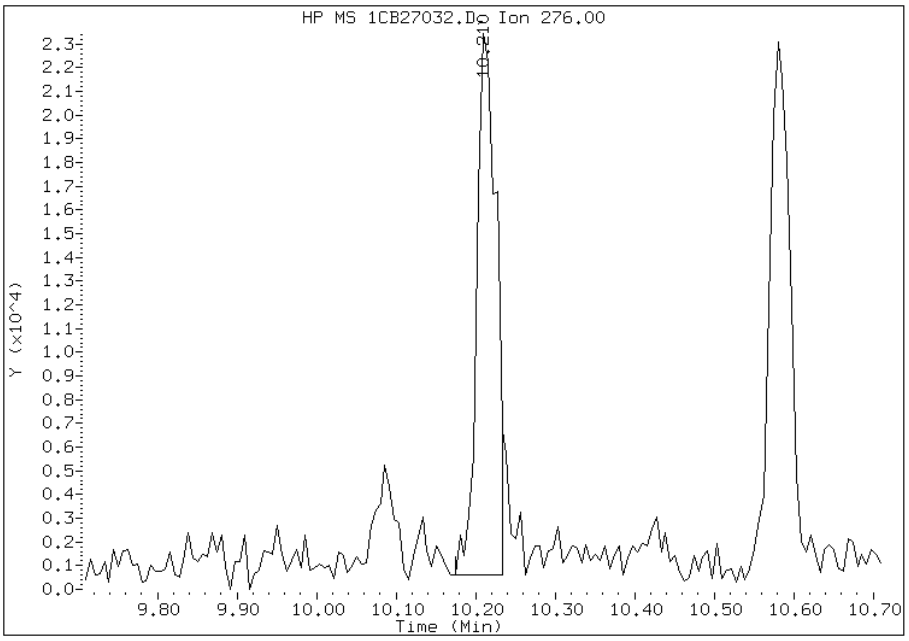
Manual Integration Results

RT: 10.21

Response: 38574

Amount: 1

Conc: 56



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:43
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87655-3

SDG No.: 68087655-3

Client Sample ID: FM0161QQQQ-CS | Lab Sample ID: 680-87655-49

Matrix: Solid | Lab File ID: 1CB27033.D

Analysis Method: 8270C LL | Date Collected: 02/19/2013 13:50

Extract. Method: 3546 | Date Extracted: 02/25/2013 14:06

Sample wt/vol: 15.10(g) | Date Analyzed: 02/27/2013 21:45

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

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

% Moisture: 21.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134903 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	12	J	51	6.4
120-12-7	Anthracene	16		11	5.3
56-55-3	Benzo[a]anthracene	76		10	5.0
50-32-8	Benzo[a]pyrene	63		13	6.6
205-99-2	Benzo[b]fluoranthene	120		16	7.8
191-24-2	Benzo[g,h,i]perylene	56		25	5.6
207-08-9	Benzo[k]fluoranthene	30		10	4.6
218-01-9	Chrysene	110		11	5.7
53-70-3	Dibenz(a,h)anthracene	19	J	25	5.2
206-44-0	Fluoranthene	98		25	5.1
86-73-7	Fluorene	7.8	J	25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	32		25	9.0
90-12-0	1-Methylnaphthalene	200		51	5.6
91-57-6	2-Methylnaphthalene	250		51	9.0
91-20-3	Naphthalene	160		51	5.6
85-01-8	Phenanthrene	110		10	5.0
129-00-0	Pyrene	97		25	4.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\1CB27033.D
Lab Smp Id: 680-87655-A-49-A Client Smp ID: FM0161QQQQ-CS
Inj Date : 27-FEB-2013 21:45
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87655-a-49-a
Misc Info : 680-87655-A-49-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\a-bFASTPAHi-m.m
Meth Date : 27-Feb-2013 16:31 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 31
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

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	15.100	Weight Extracted
M	21.896	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.792	3.792	(1.000)	1712629	40.0000	
* 6 Acenaphthene-d10	164	4.886	4.880	(1.000)	1414589	40.0000	
* 10 Phenanthrene-d10	188	5.839	5.839	(1.000)	2584415	40.0000	
$ 14 o-Terphenyl	230	6.092	6.092	(1.043)	281958	7.22594	612.6958
* 18 Chrysene-d12	240	7.792	7.792	(1.000)	2675726	40.0000	
* 23 Perylene-d12	264	9.004	9.004	(1.000)	2423427	40.0000	
2 Naphthalene	128	3.810	3.804	(1.005)	84182	1.88807	160.0919
3 2-Methylnaphthalene	142	4.233	4.233	(1.116)	87314	2.93582	248.9313
4 1-Methylnaphthalene	142	4.298	4.298	(1.133)	64141	2.36797	200.7831
5 Acenaphthylene	152	4.798	4.798	(0.982)	7742	0.13575	11.5103
9 Fluorene	166	5.227	5.221	(1.070)	4104	0.09154	7.7621(Q)
11 Phenanthrene	178	5.857	5.851	(1.003)	99093	1.32602	112.4344
12 Anthracene	178	5.886	5.886	(1.008)	13535	0.18519	15.7028
13 Carbazole	167	5.998	5.992	(1.027)	9327	0.14356	12.1729(Q)
15 Fluoranthene	202	6.698	6.698	(1.147)	94774	1.15807	98.1937

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.863	6.863	(0.881)	82091	1.14164	96.8008
17 Benzo(a)anthracene	228	7.780	7.780	(0.998)	69661	0.90203	76.4844
19 Chrysene	228	7.810	7.810	(1.002)	104051	1.34633	114.1573
20 Benzo(b)fluoranthene	252	8.645	8.645	(0.960)	92309	1.45751	123.5843(M)
21 Benzo(k)fluoranthene	252	8.662	8.668	(0.962)	22738	0.34998	29.6749(QM)
22 Benzo(a)pyrene	252	8.951	8.945	(0.994)	45892	0.74600	63.2544
24 Indeno(1,2,3-cd)pyrene	276	10.215	10.215	(1.135)	22071	0.38139	32.3382(M)
25 Dibenzo(a,h)anthracene	278	10.227	10.233	(1.136)	12897	0.22784	19.3188
26 Benzo(g,h,i)perylene	276	10.586	10.580	(1.176)	40146	0.66316	56.2303(M)

QC Flag Legend

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

Data File: 1CB27033.D

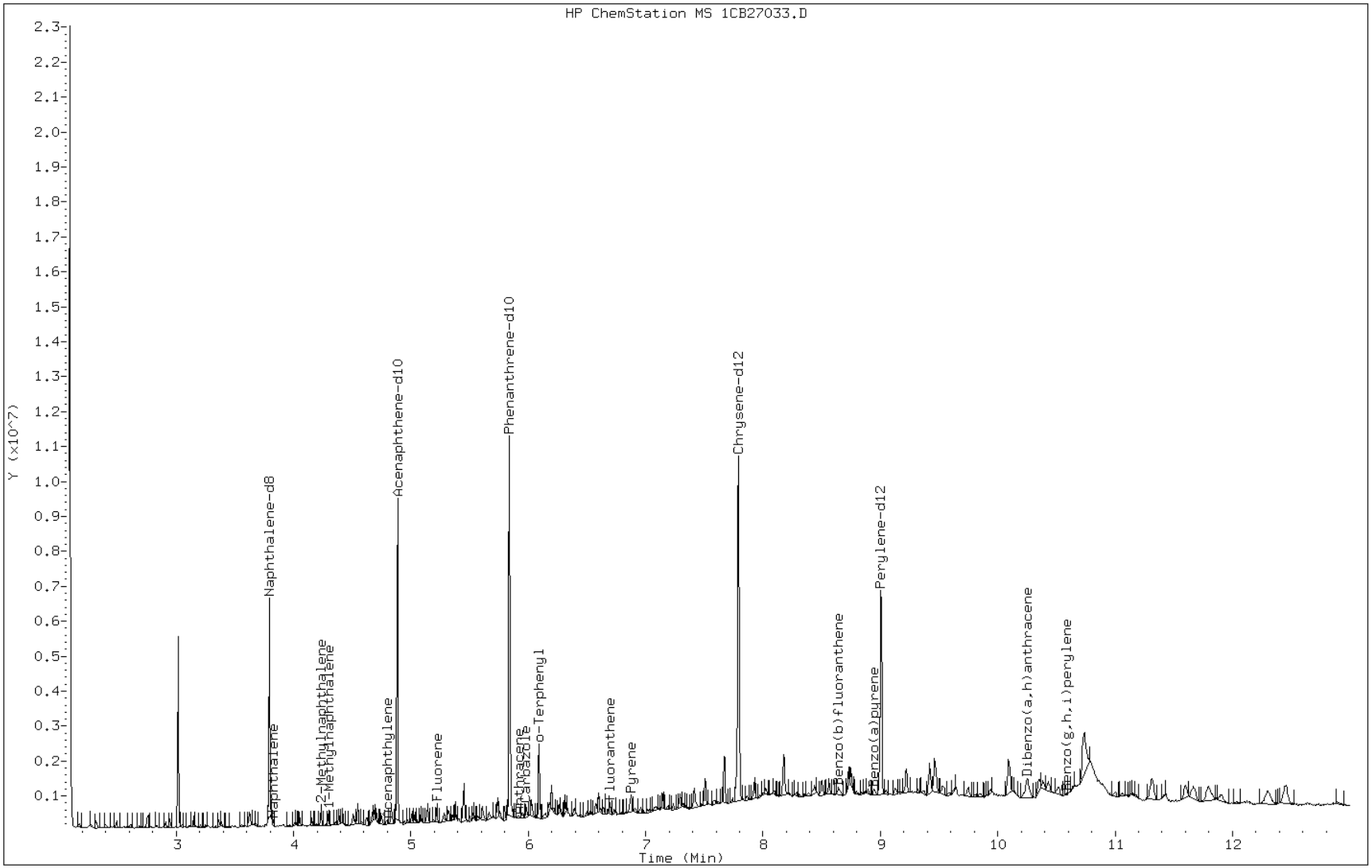
Date: 27-FEB-2013 21:45

Client ID: FM0161QQQQ-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-49-a

Operator: SCC



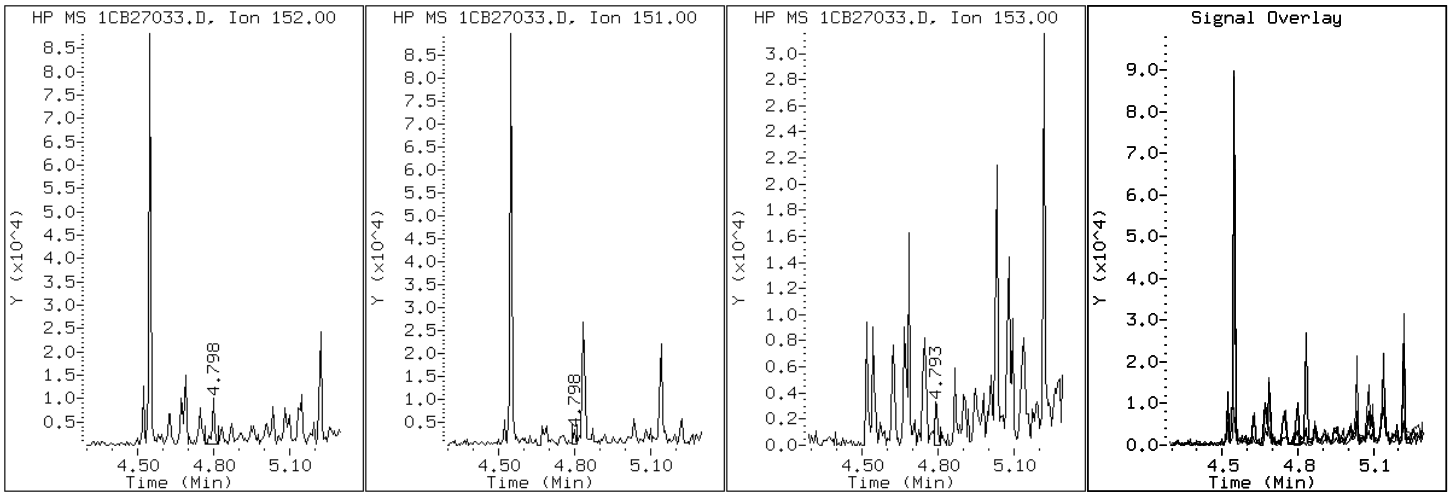
Data File: 1CB27033.D

Date: 27-FEB-2013 21:45

Client ID: FM0161QQQQ-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-49-a Operator: SCC

5 Acenaphthylene



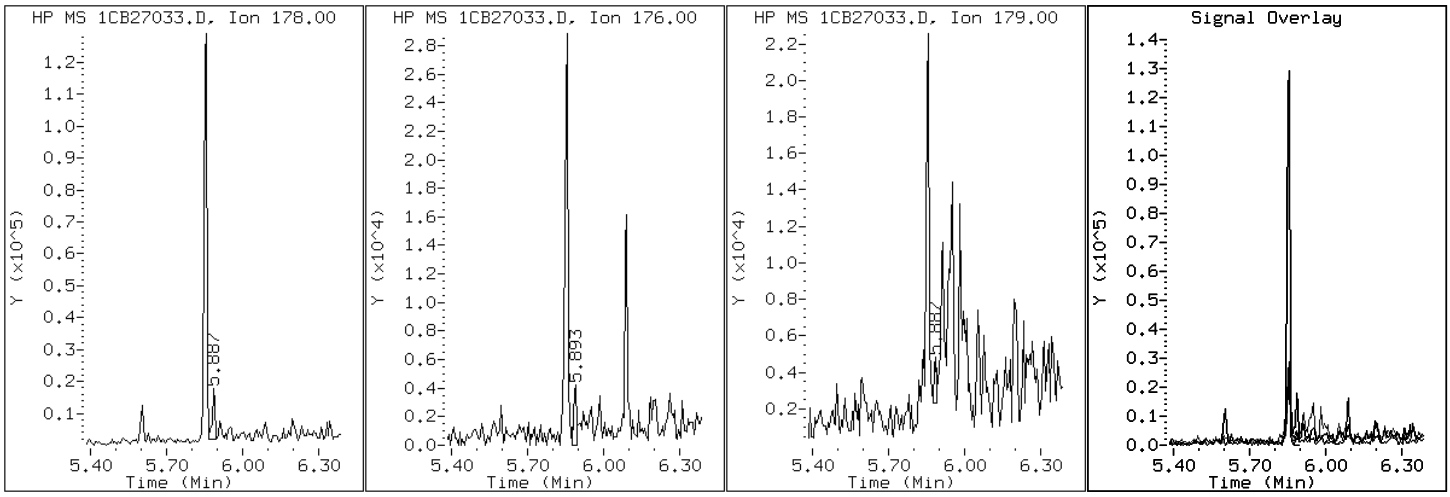
Data File: 1CB27033.D

Date: 27-FEB-2013 21:45

Client ID: FM0161QQQQ-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-49-a Operator: SCC

12 Anthracene



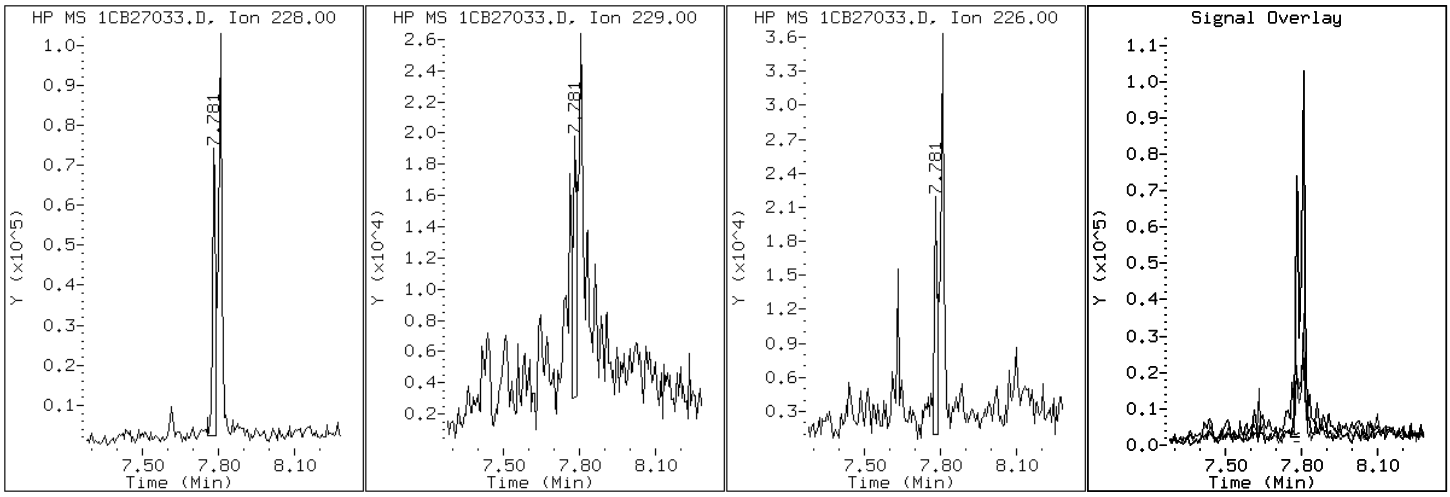
Data File: 1CB27033.D

Date: 27-FEB-2013 21:45

Client ID: FM0161QQQQ-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-49-a Operator: SCC

17 Benzo(a)anthracene



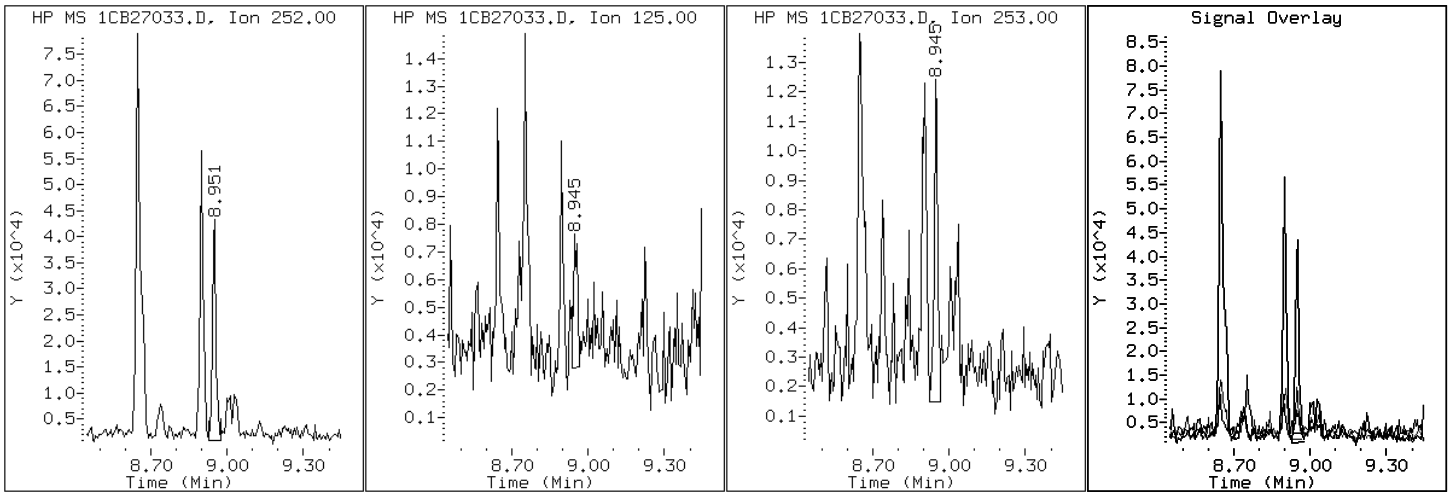
Data File: 1CB27033.D

Date: 27-FEB-2013 21:45

Client ID: FM0161QQQQ-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-49-a Operator: SCC

22 Benzo(a)pyrene



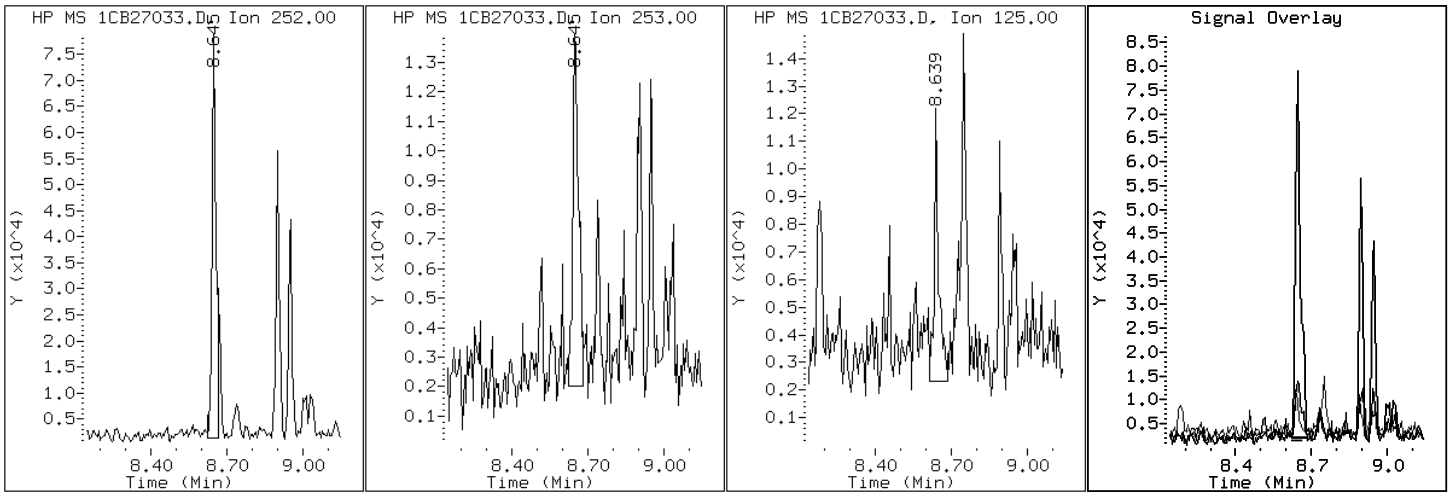
Data File: 1CB27033.D

Date: 27-FEB-2013 21:45

Client ID: FM0161QQQQ-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-49-a Operator: SCC

20 Benzo(b)fluoranthene



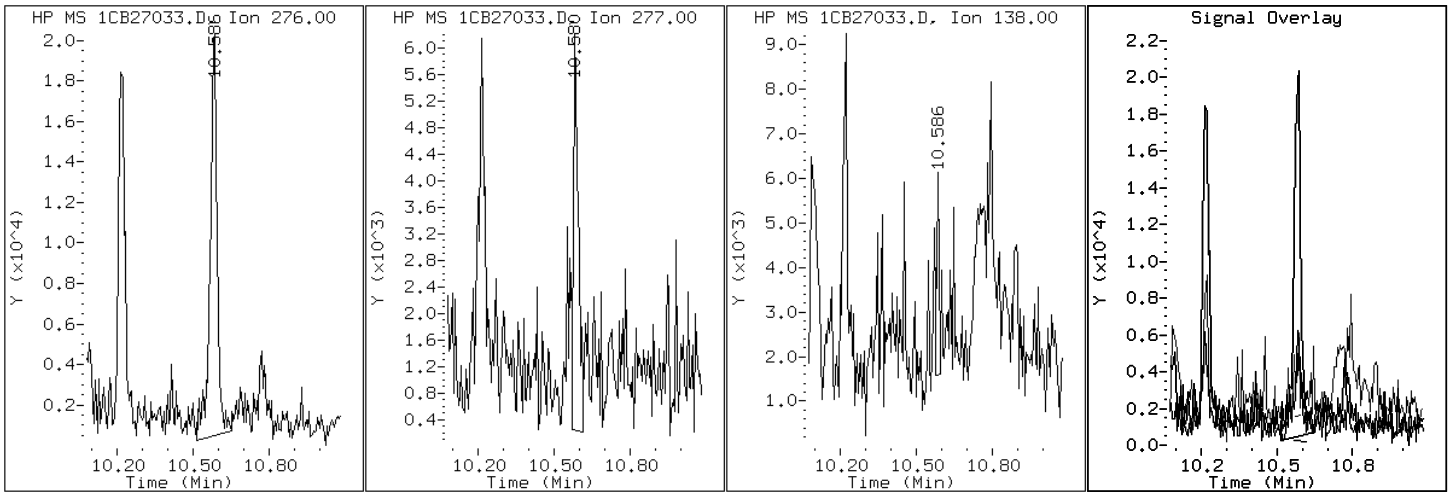
Data File: 1CB27033.D

Date: 27-FEB-2013 21:45

Client ID: FM0161QQQQ-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-49-a Operator: SCC

26 Benzo(g,h,i)perylene



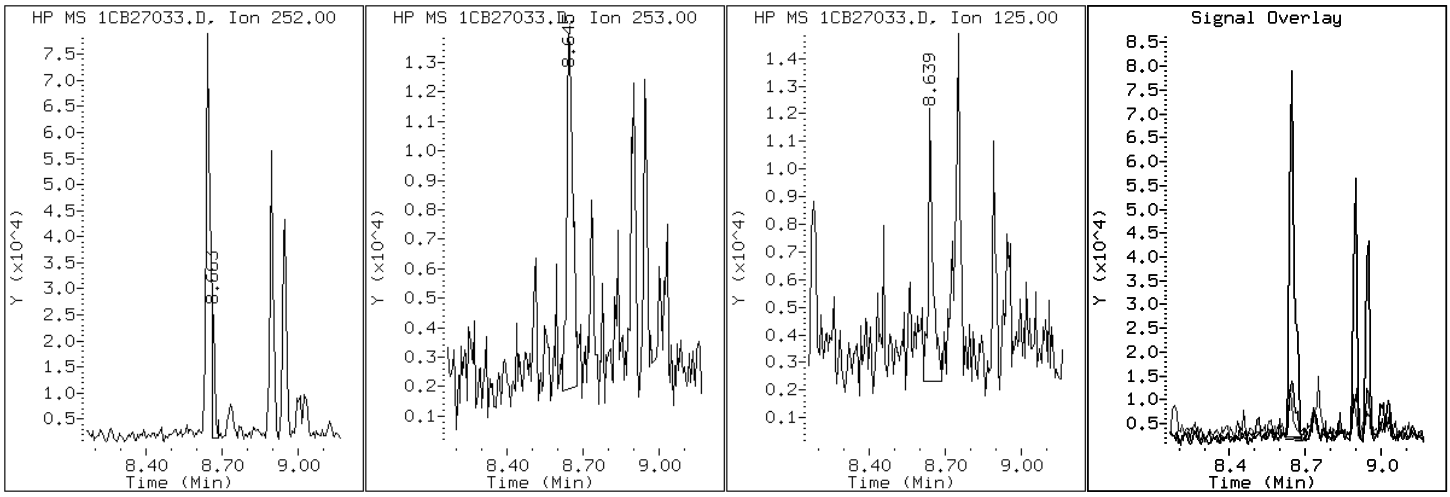
Data File: 1CB27033.D

Date: 27-FEB-2013 21:45

Client ID: FM0161QQQQ-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-49-a Operator: SCC

21 Benzo(k)fluoranthene



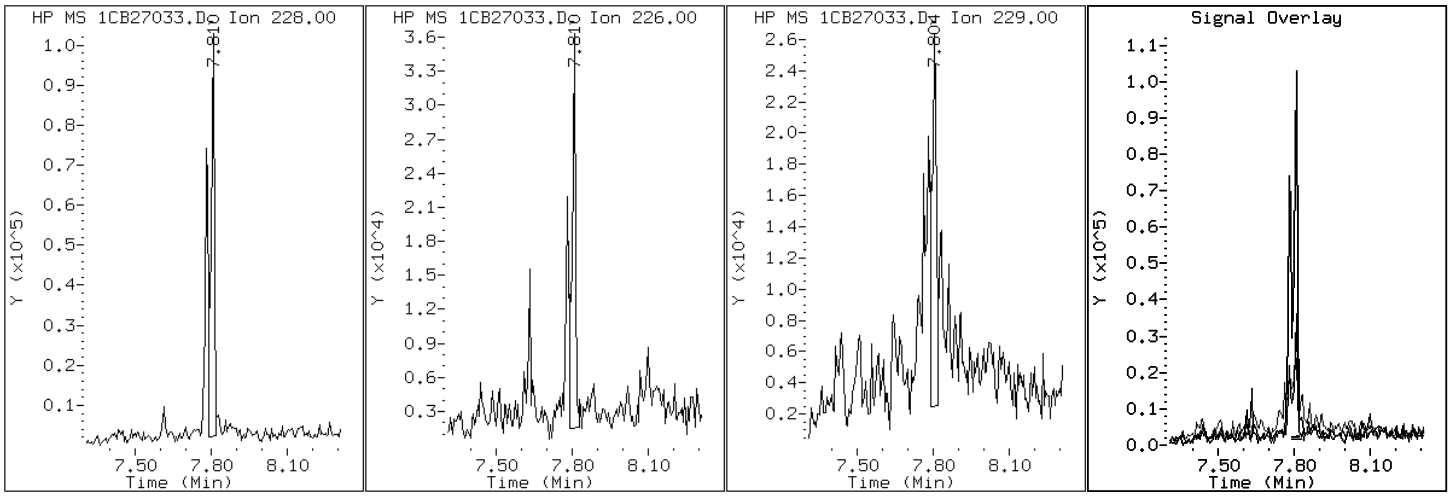
Data File: 1CB27033.D

Date: 27-FEB-2013 21:45

Client ID: FM0161QQQQ-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-49-a Operator: SCC

19 Chrysene



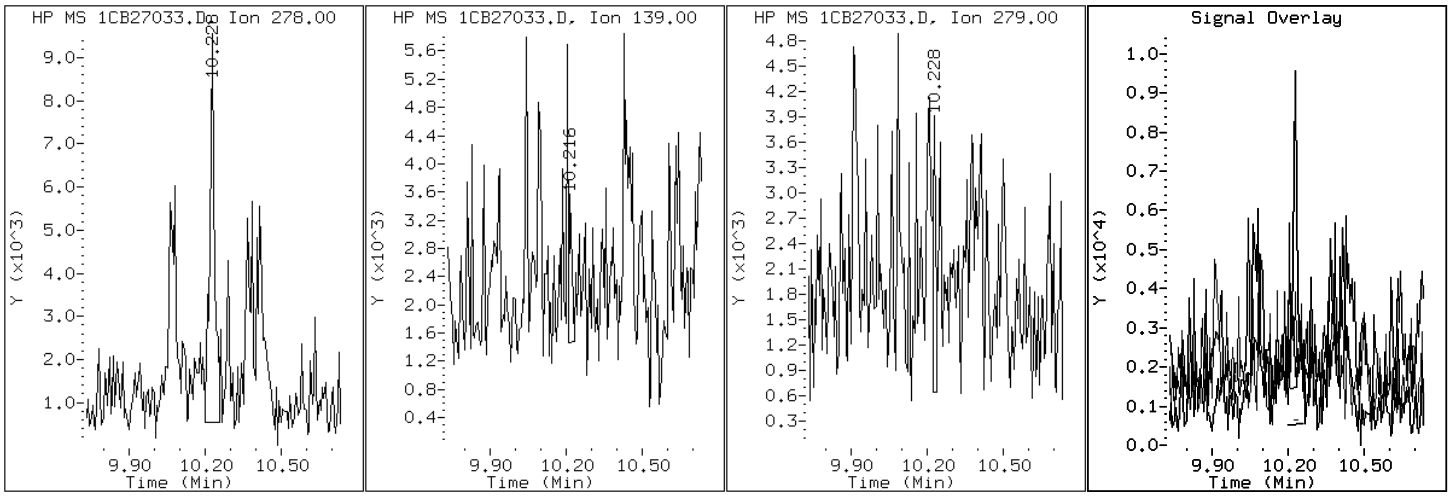
Data File: 1CB27033.D

Date: 27-FEB-2013 21:45

Client ID: FM0161QQQQ-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-49-a Operator: SCC

25 Dibenzo(a,h)anthracene



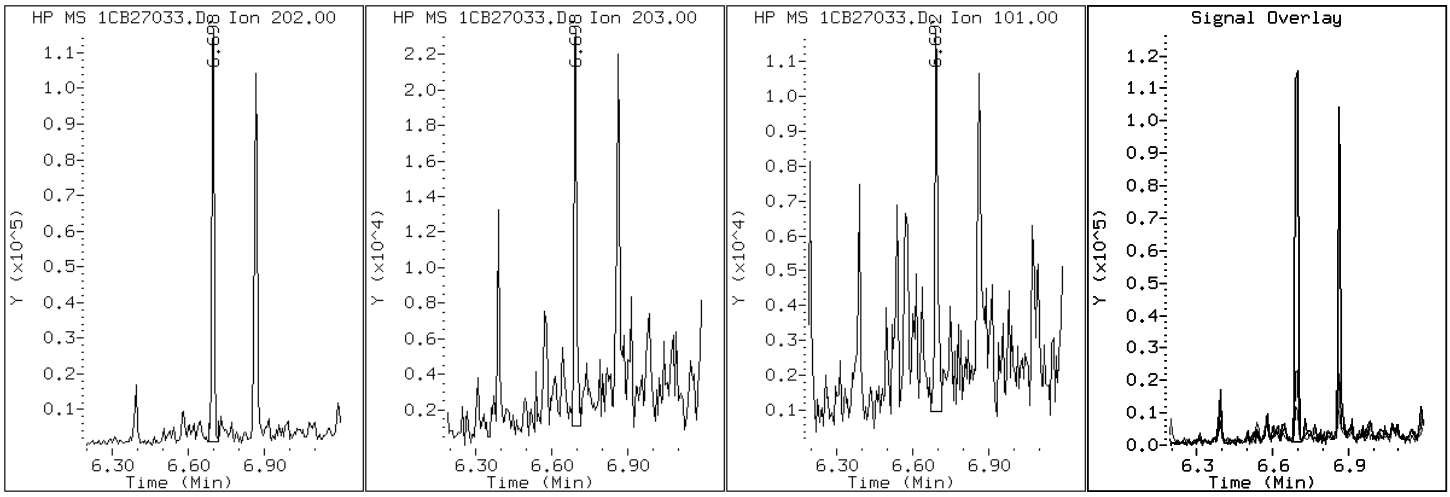
Data File: 1CB27033.D

Date: 27-FEB-2013 21:45

Client ID: FM0161QQQQ-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-49-a Operator: SCC

15 Fluoranthene



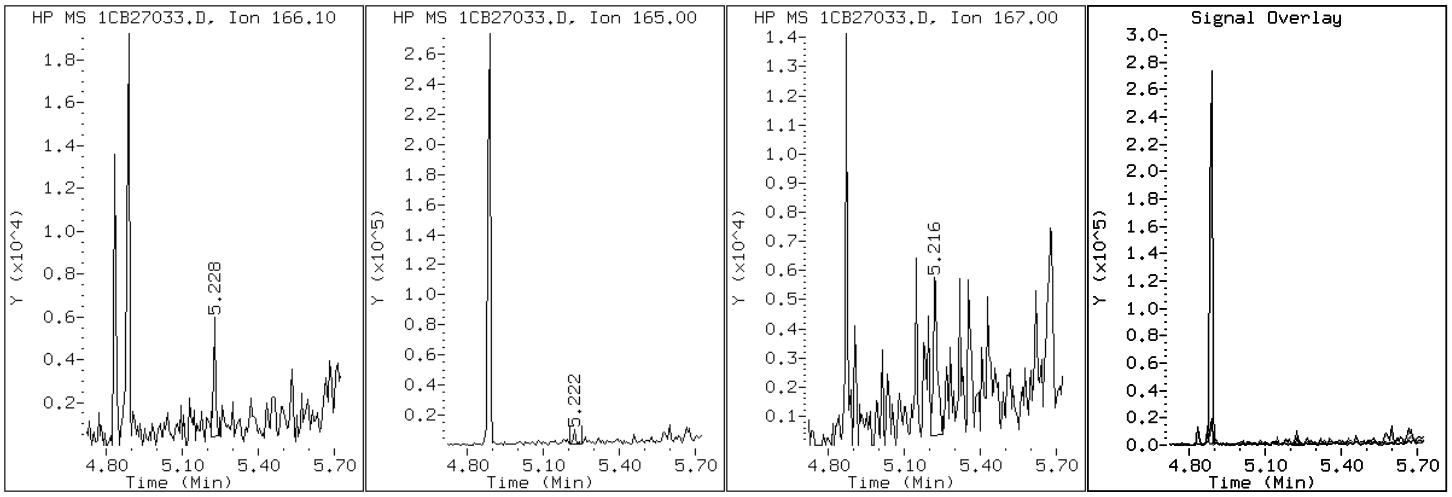
Data File: 1CB27033.D

Date: 27-FEB-2013 21:45

Client ID: FM0161QQQQ-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-49-a Operator: SCC

9 Fluorene



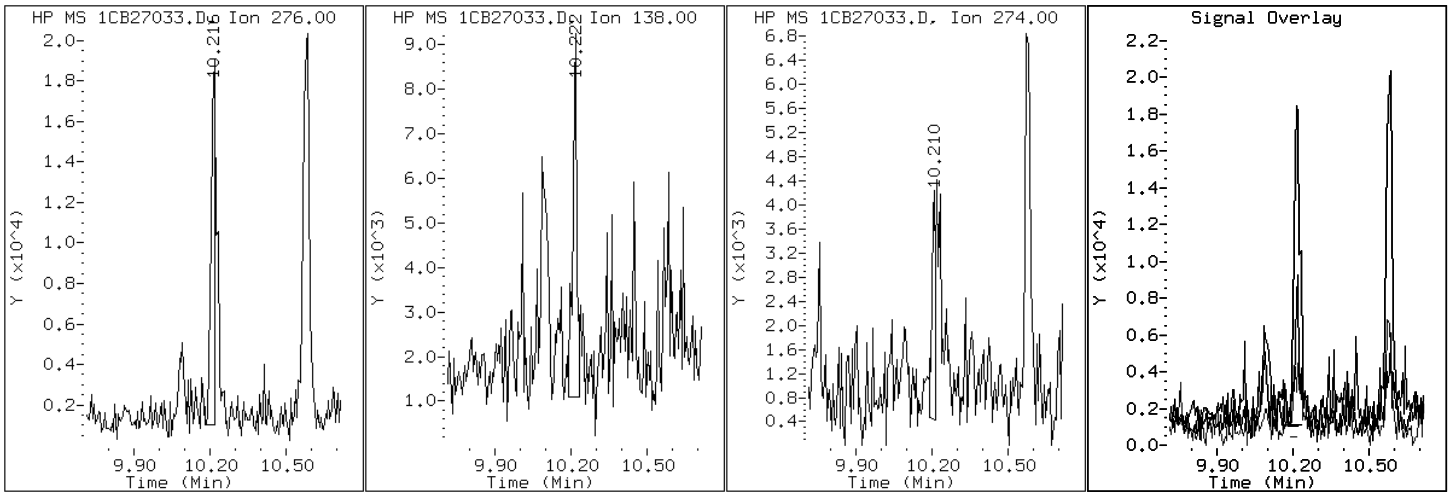
Data File: 1CB27033.D

Date: 27-FEB-2013 21:45

Client ID: FM0161QQQQ-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-49-a Operator: SCC

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



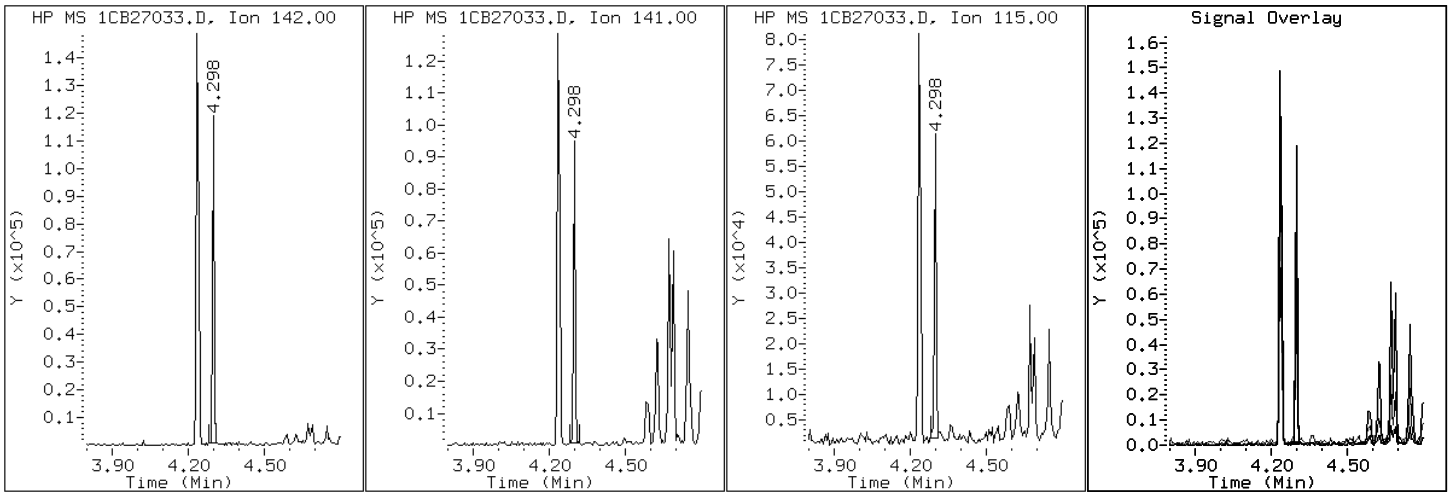
Data File: 1CB27033.D

Date: 27-FEB-2013 21:45

Client ID: FM0161QQQQ-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-49-a Operator: SCC

4 1-Methylnaphthalene



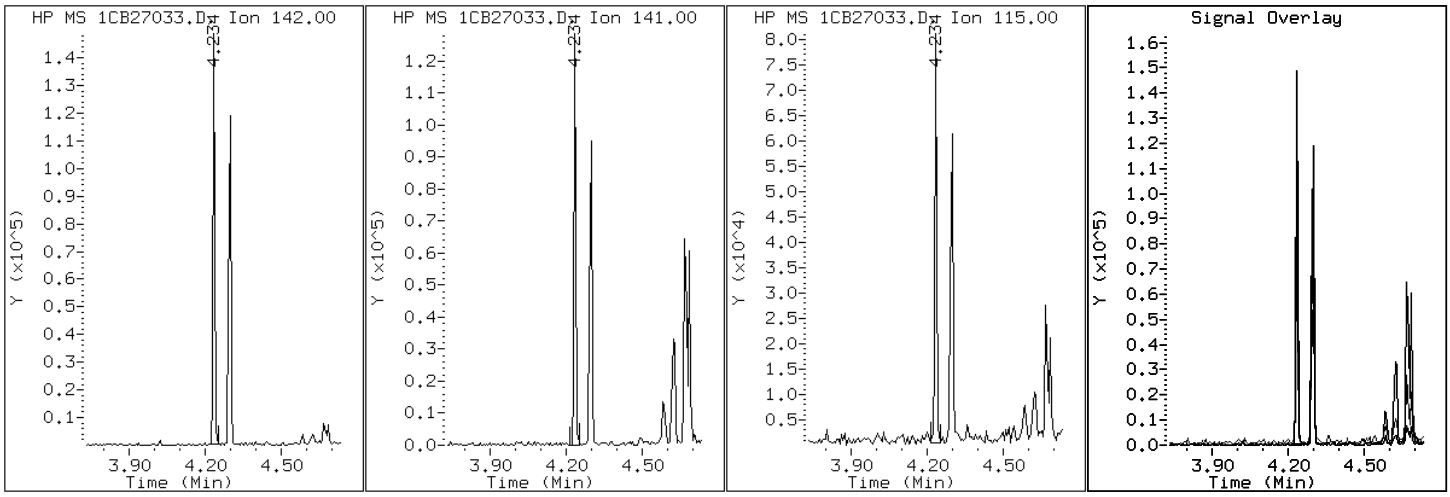
Data File: 1CB27033.D

Date: 27-FEB-2013 21:45

Client ID: FM0161QQQQ-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-49-a Operator: SCC

3 2-Methylnaphthalene



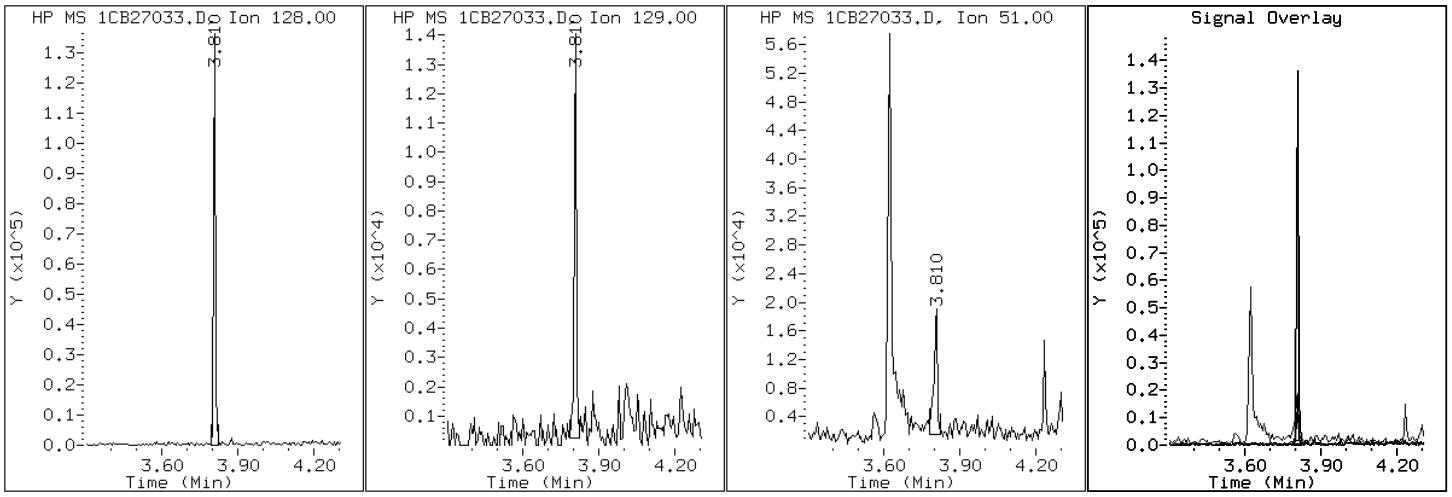
Data File: 1CB27033.D

Date: 27-FEB-2013 21:45

Client ID: FM0161QQQQ-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-49-a Operator: SCC

2 Naphthalene



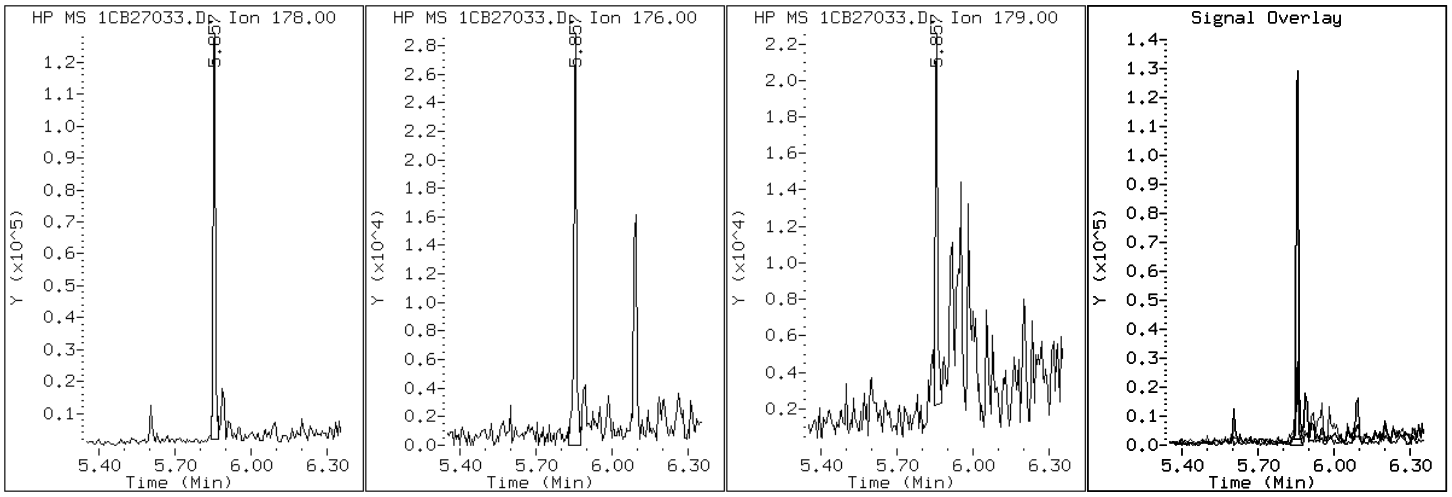
Data File: 1CB27033.D

Date: 27-FEB-2013 21:45

Client ID: FM0161QQQQ-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-49-a Operator: SCC

11 Phenanthrene



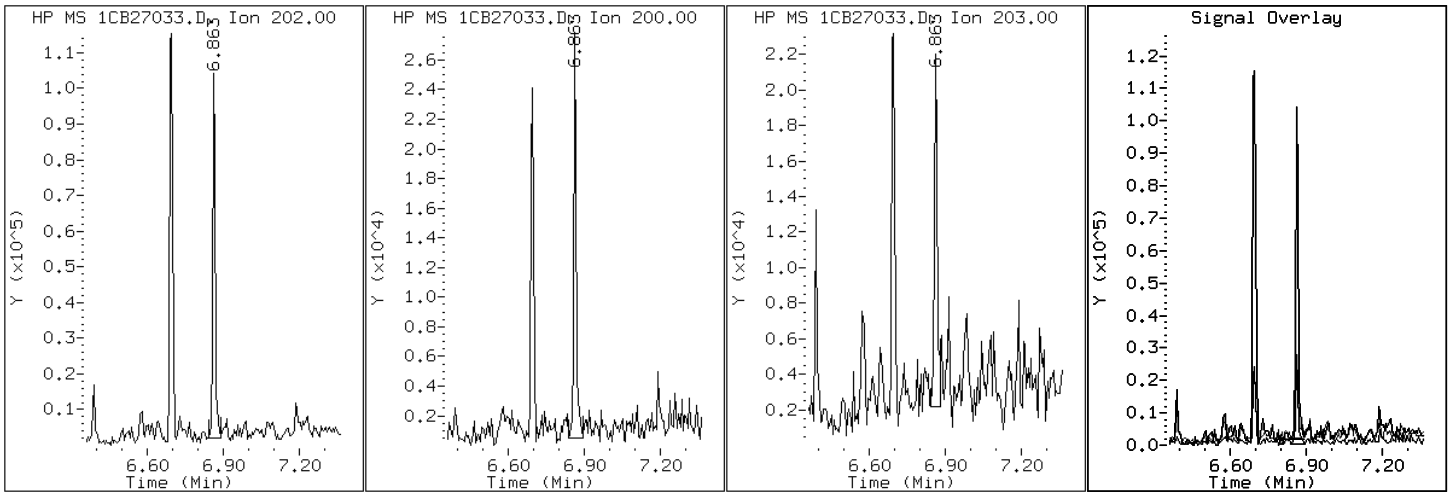
Data File: 1CB27033.D

Date: 27-FEB-2013 21:45

Client ID: FM0161QQQQ-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-49-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB27033.D
Inj. Date and Time: 27-FEB-2013 21:45
Instrument ID: BSMC5973.i
Client ID: FM0161QQQQ-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/01/2013

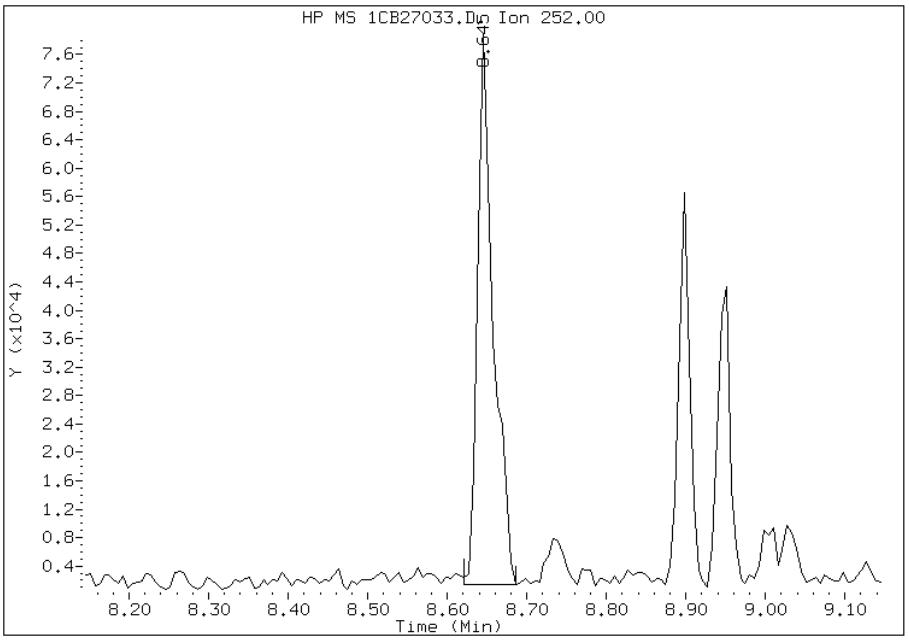
Processing Integration Results

RT: 8.65

Response: 106276

Amount: 2

Conc: 142



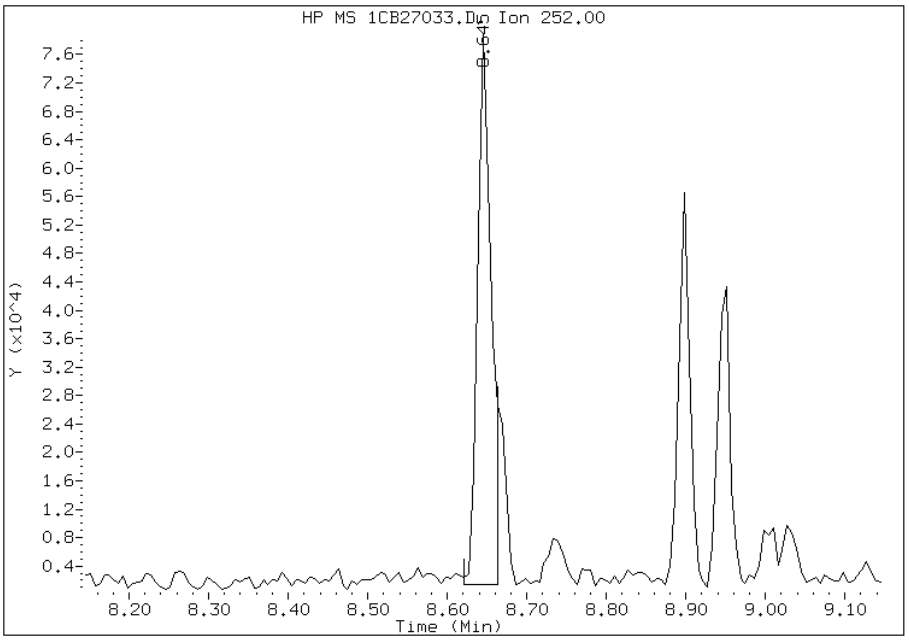
Manual Integration Results

RT: 8.65

Response: 92309

Amount: 1

Conc: 124



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:44
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB27033.D
Inj. Date and Time: 27-FEB-2013 21:45
Instrument ID: BSMC5973.i
Client ID: FM0161QQQQ-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/01/2013

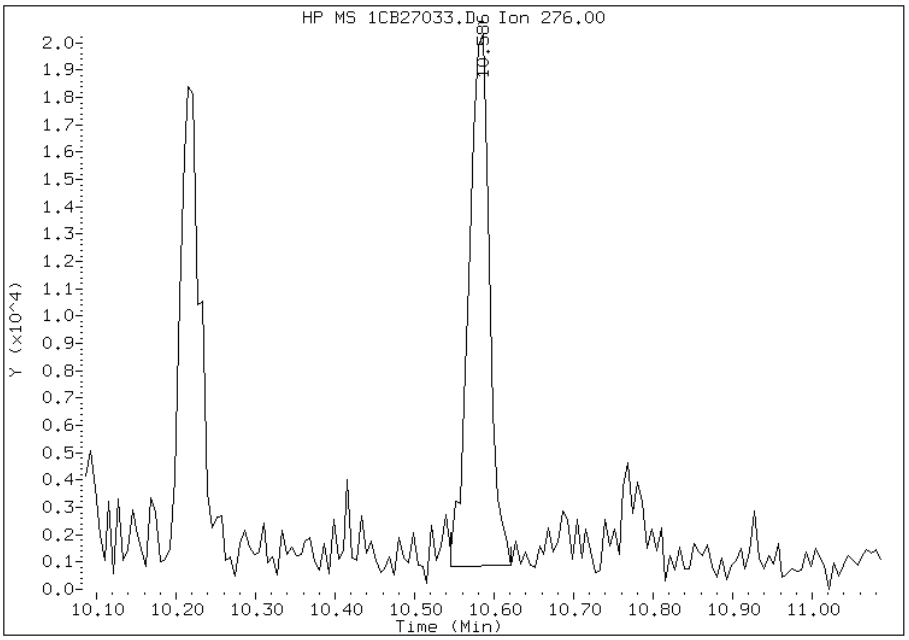
Processing Integration Results

RT: 10.59

Response: 35223

Amount: 1

Conc: 49



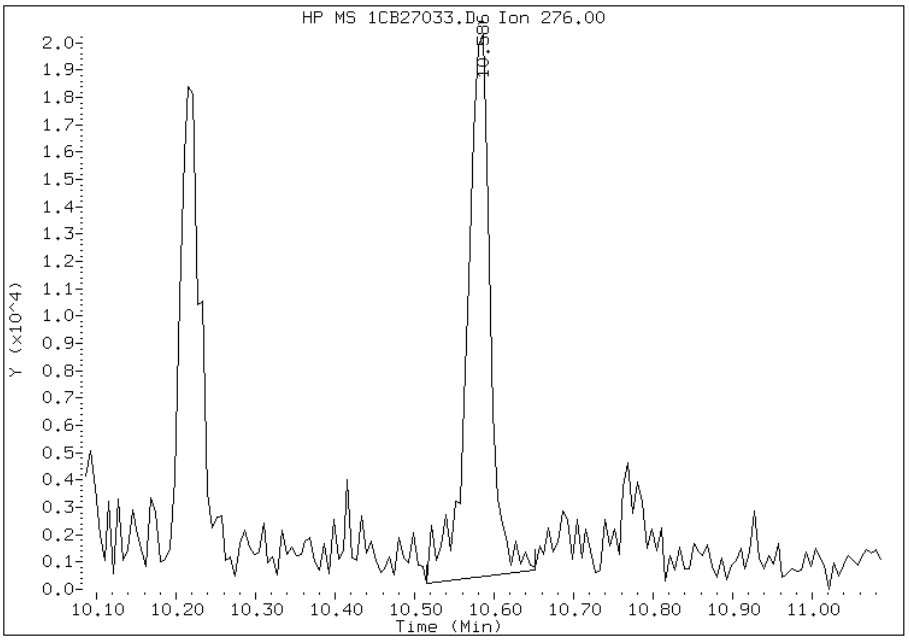
Manual Integration Results

RT: 10.59

Response: 40146

Amount: 1

Conc: 56



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:45
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB27033.D
Inj. Date and Time: 27-FEB-2013 21:45
Instrument ID: BSMC5973.i
Client ID: FM0161QQQQ-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/01/2013

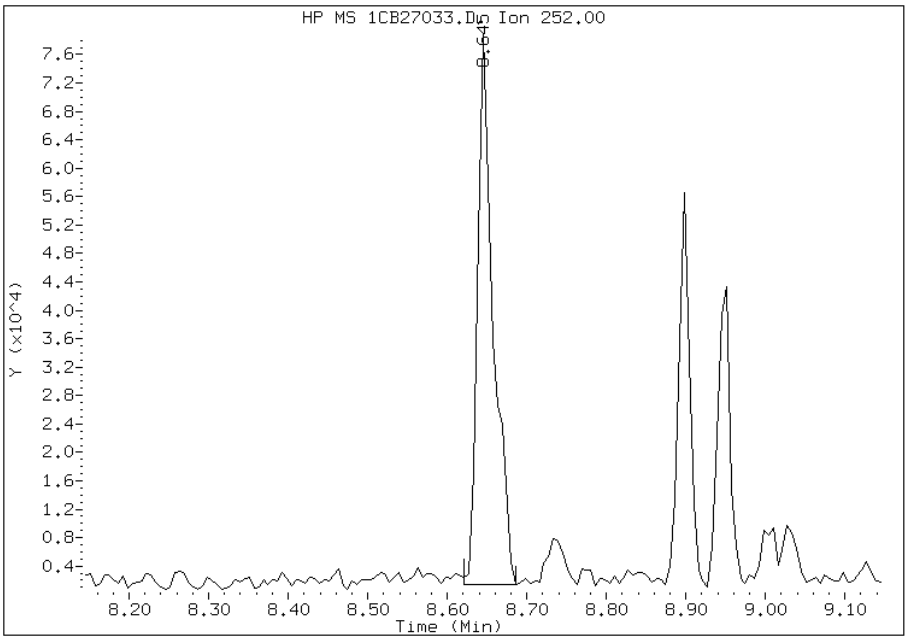
Processing Integration Results

RT: 8.65

Response: 106363

Amount: 2

Conc: 139



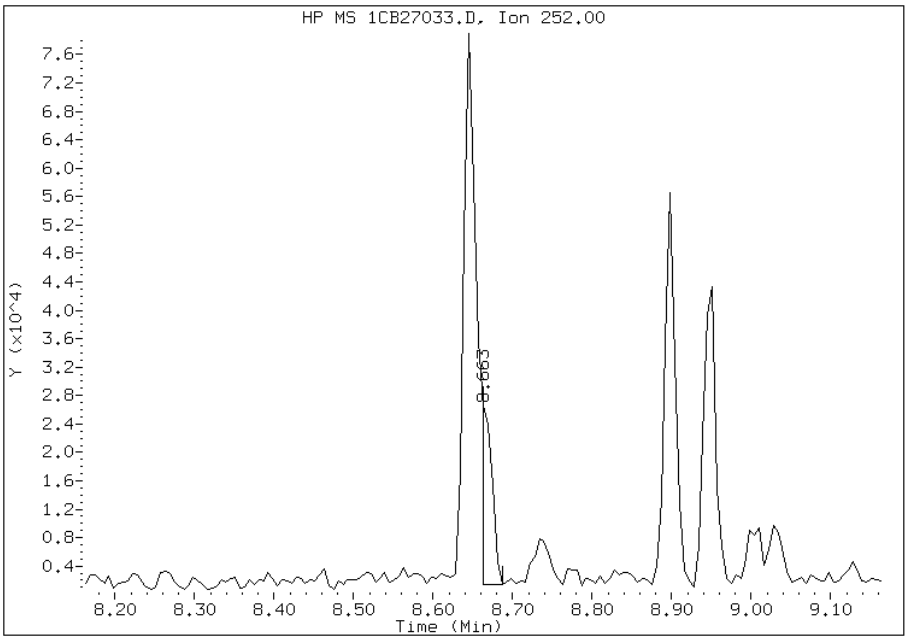
Manual Integration Results

RT: 8.66

Response: 22738

Amount: 0

Conc: 30



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:44
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB27033.D
Inj. Date and Time: 27-FEB-2013 21:45
Instrument ID: BSMC5973.i
Client ID: FM0161QQQQ-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/01/2013

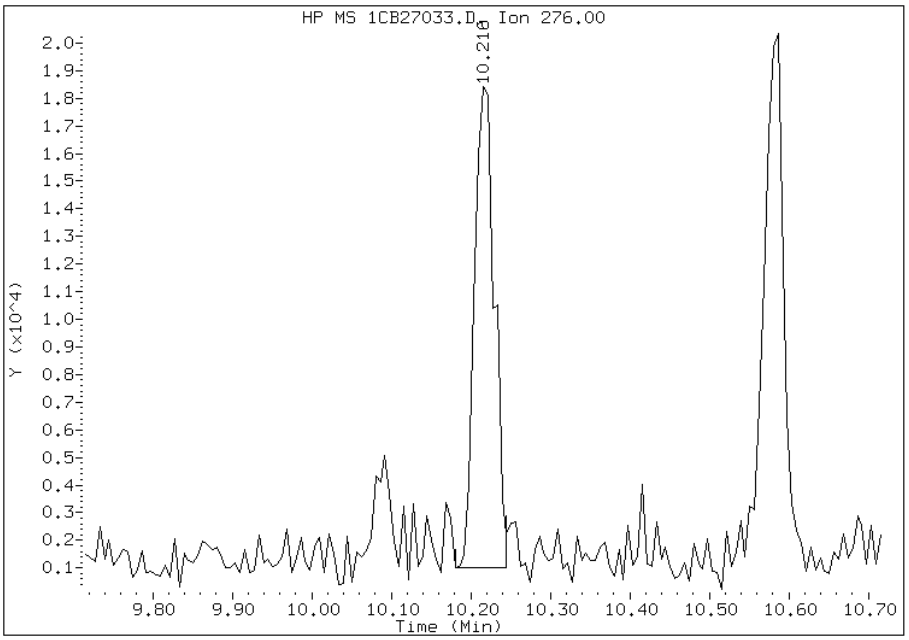
Processing Integration Results

RT: 10.22

Response: 30051

Amount: 1

Conc: 44



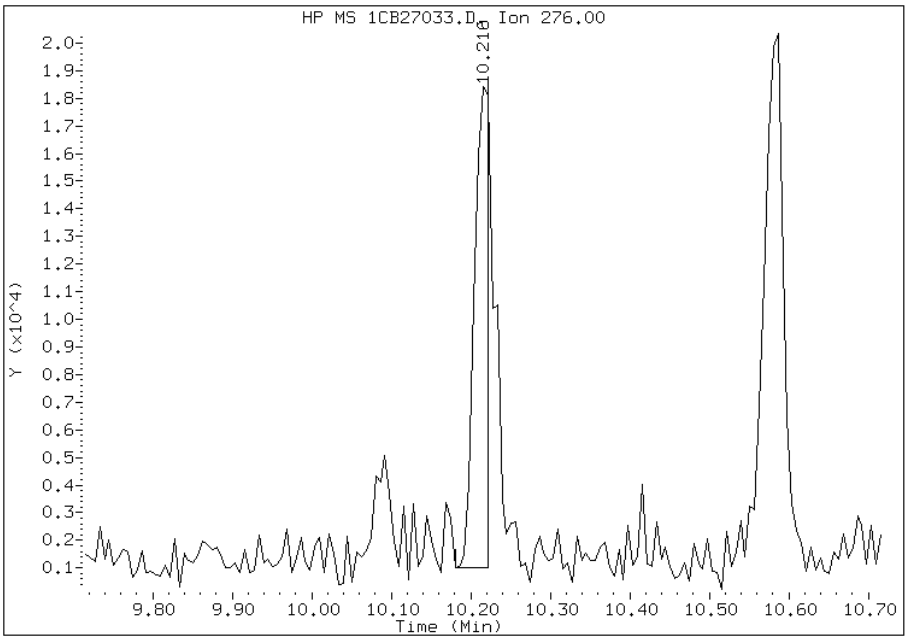
Manual Integration Results

RT: 10.22

Response: 22071

Amount: 0

Conc: 32



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:45
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87655-3

SDG No.: 68087655-3

Client Sample ID: FM0161RRRR-CS | Lab Sample ID: 680-87655-50

Matrix: Solid | Lab File ID: 1CB27034.D

Analysis Method: 8270C LL | Date Collected: 02/19/2013 13:57

Extract. Method: 3546 | Date Extracted: 02/25/2013 14:06

Sample wt/vol: 14.90(g) | Date Analyzed: 02/27/2013 22:04

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

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

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

Analysis Batch No.: 134903 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	8.0	J	53	6.6
120-12-7	Anthracene	6.8	J	11	5.6
56-55-3	Benzo[a]anthracene	49		11	5.2
50-32-8	Benzo[a]pyrene	45		14	6.9
205-99-2	Benzo[b]fluoranthene	94		16	8.1
191-24-2	Benzo[g,h,i]perylene	40		26	5.8
207-08-9	Benzo[k]fluoranthene	29		11	4.8
218-01-9	Chrysene	77		12	5.9
53-70-3	Dibenz(a,h)anthracene	21	J	26	5.4
206-44-0	Fluoranthene	73		26	5.3
86-73-7	Fluorene	6.0	J	26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	26		26	9.4
90-12-0	1-Methylnaphthalene	40	J	53	5.8
91-57-6	2-Methylnaphthalene	49	J	53	9.4
91-20-3	Naphthalene	50	J	53	5.8
85-01-8	Phenanthrene	77		11	5.2
129-00-0	Pyrene	62		26	4.9

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\BSMC5973.i\1C022713.b\1CB27034.D
Lab Smp Id: 680-87655-A-50-A Client Smp ID: FM0161RRRR-CS
Inj Date : 27-FEB-2013 22:04
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87655-a-50-a
Misc Info : 680-87655-A-50-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\a-bFASTPAHi-m.m
Meth Date : 27-Feb-2013 16:31 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 32
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

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	23.837	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.792	3.792	(1.000)	1855399	40.0000	
* 6 Acenaphthene-d10	164	4.886	4.880	(1.000)	1452687	40.0000	
* 10 Phenanthrene-d10	188	5.839	5.839	(1.000)	2674575	40.0000	
$ 14 o-Terphenyl	230	6.092	6.092	(1.043)	277706	6.87706	605.9977
* 18 Chrysene-d12	240	7.792	7.792	(1.000)	2678753	40.0000	
* 23 Perylene-d12	264	9.009	9.004	(1.000)	2472660	40.0000	
2 Naphthalene	128	3.810	3.804	(1.005)	27407	0.56740	49.9983
3 2-Methylnaphthalene	142	4.233	4.233	(1.116)	17888	0.55518	48.9216
4 1-Methylnaphthalene	142	4.298	4.298	(1.133)	13163	0.44856	39.5266
5 Acenaphthylene	152	4.798	4.798	(0.982)	5317	0.09078	7.9997
9 Fluorene	166	5.221	5.221	(1.069)	3147	0.06836	6.0234(Q)
11 Phenanthrene	178	5.857	5.851	(1.003)	67364	0.87105	76.7555
12 Anthracene	178	5.886	5.886	(1.008)	5825	0.07701	6.7864
13 Carbazole	167	5.998	5.992	(1.027)	6594	0.09808	8.6422(Q)
15 Fluoranthene	202	6.698	6.698	(1.147)	70623	0.83387	73.4794

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.868	6.863	(0.881)	50286	0.69854	61.5541
17 Benzo(a)anthracene	228	7.780	7.780	(0.998)	43367	0.56092	49.4276
19 Chrysene	228	7.809	7.810	(1.002)	67386	0.87093	76.7456
20 Benzo(b)fluoranthene	252	8.645	8.645	(0.960)	68893	1.06613	93.9459
21 Benzo(k)fluoranthene	252	8.668	8.668	(0.962)	22107	0.33349	29.3867(Q)
22 Benzo(a)pyrene	252	8.945	8.945	(0.993)	32123	0.51178	45.0975
24 Indeno(1,2,3-cd)pyrene	276	10.215	10.215	(1.134)	17693	0.29965	26.4046(M)
25 Dibenzo(a,h)anthracene	278	10.227	10.233	(1.135)	13550	0.23461	20.6736(M)
26 Benzo(g,h,i)perylene	276	10.580	10.580	(1.174)	28095	0.45485	40.0811

QC Flag Legend

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

Data File: 1CB27034.D

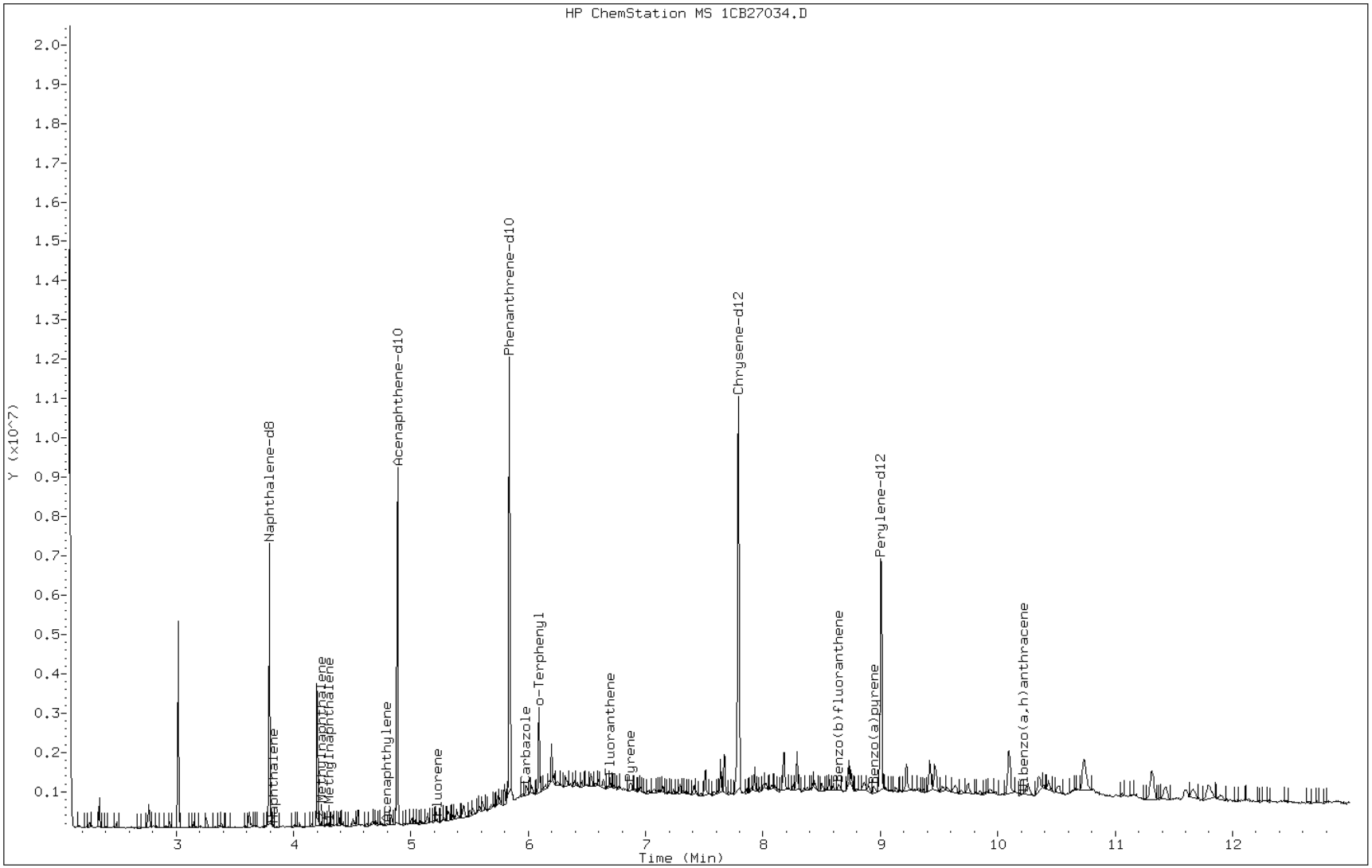
Date: 27-FEB-2013 22:04

Client ID: FM0161RRRR-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-50-a

Operator: SCC



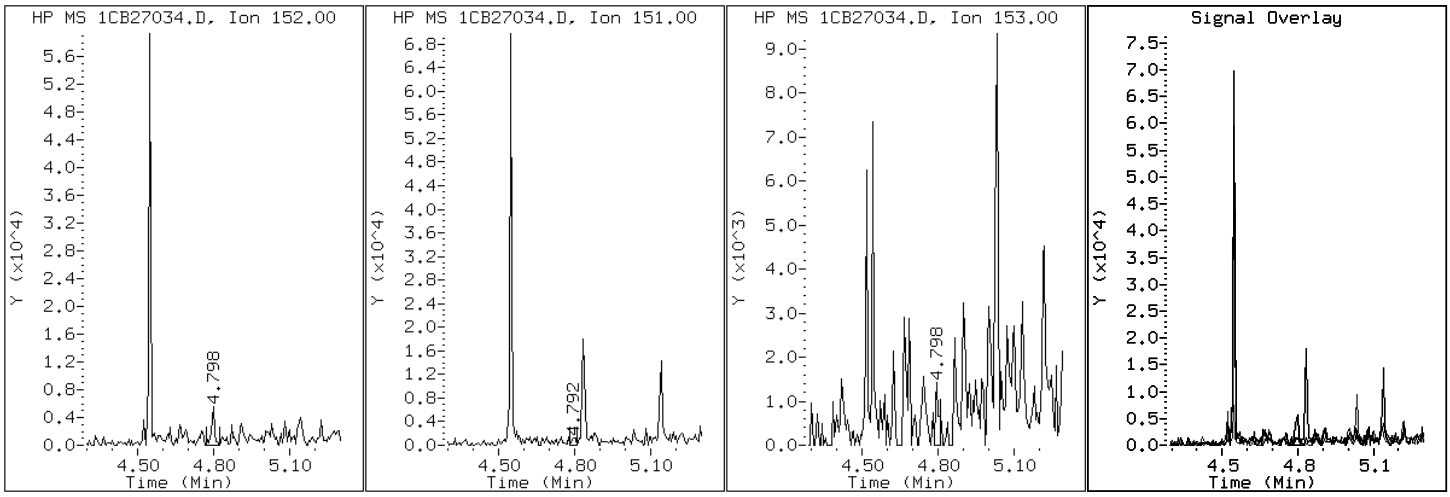
Data File: 1CB27034.D

Date: 27-FEB-2013 22:04

Client ID: FM0161RRRR-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-50-a Operator: SCC

5 Acenaphthylene



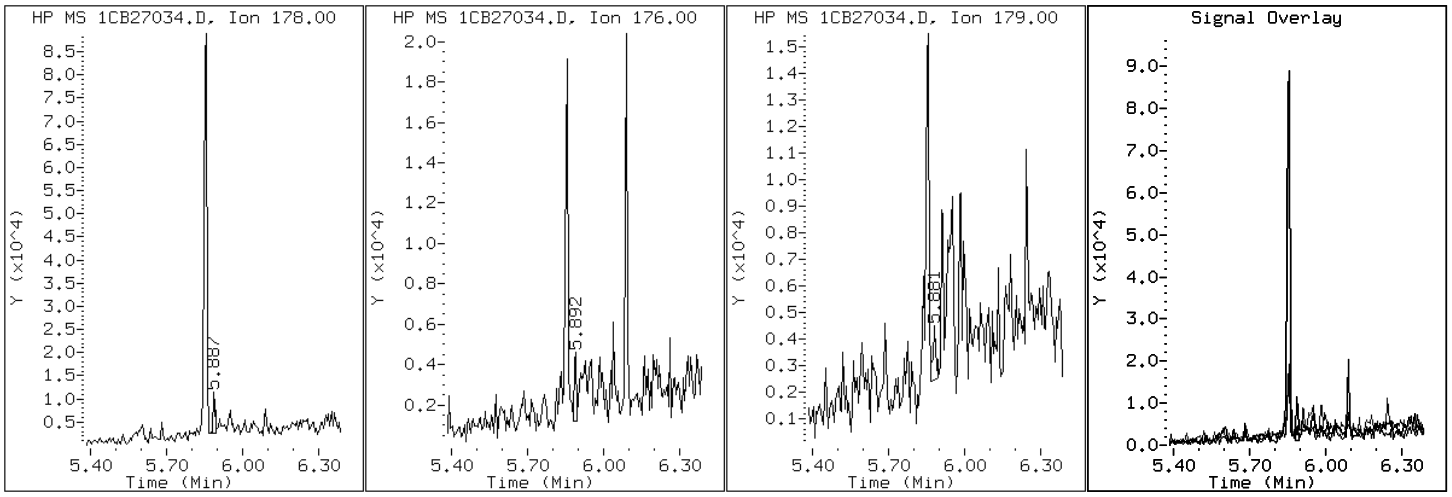
Data File: 1CB27034.D

Date: 27-FEB-2013 22:04

Client ID: FM0161RRRR-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-50-a Operator: SCC

12 Anthracene



Data File: 1CB27034.D

Date: 27-FEB-2013 22:04

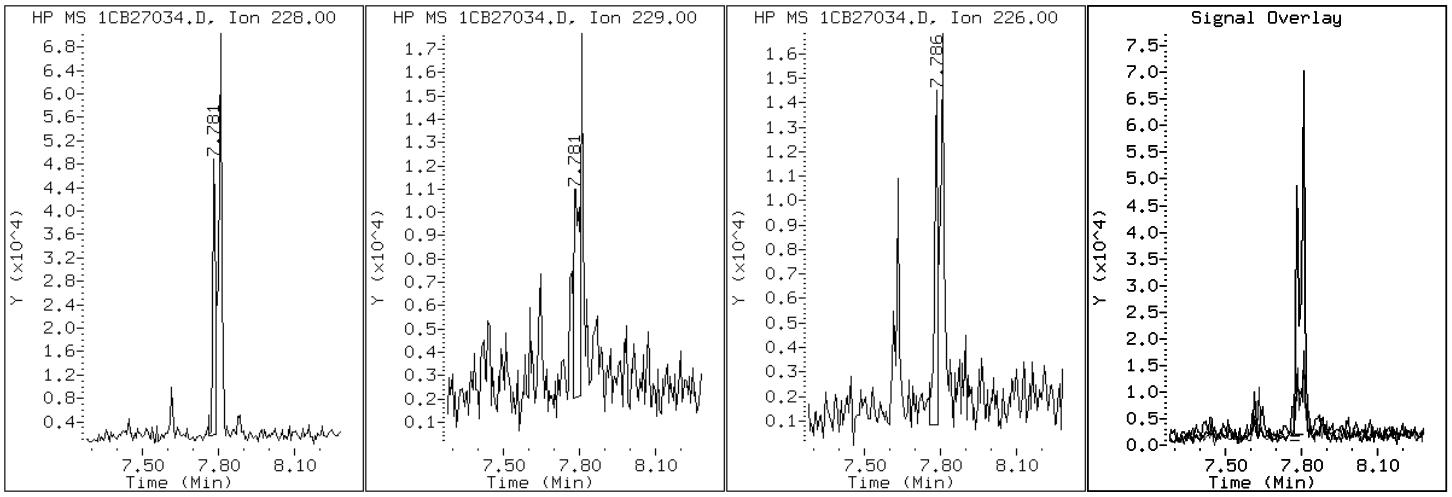
Client ID: FM0161RRRR-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-50-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CB27034.D

Date: 27-FEB-2013 22:04

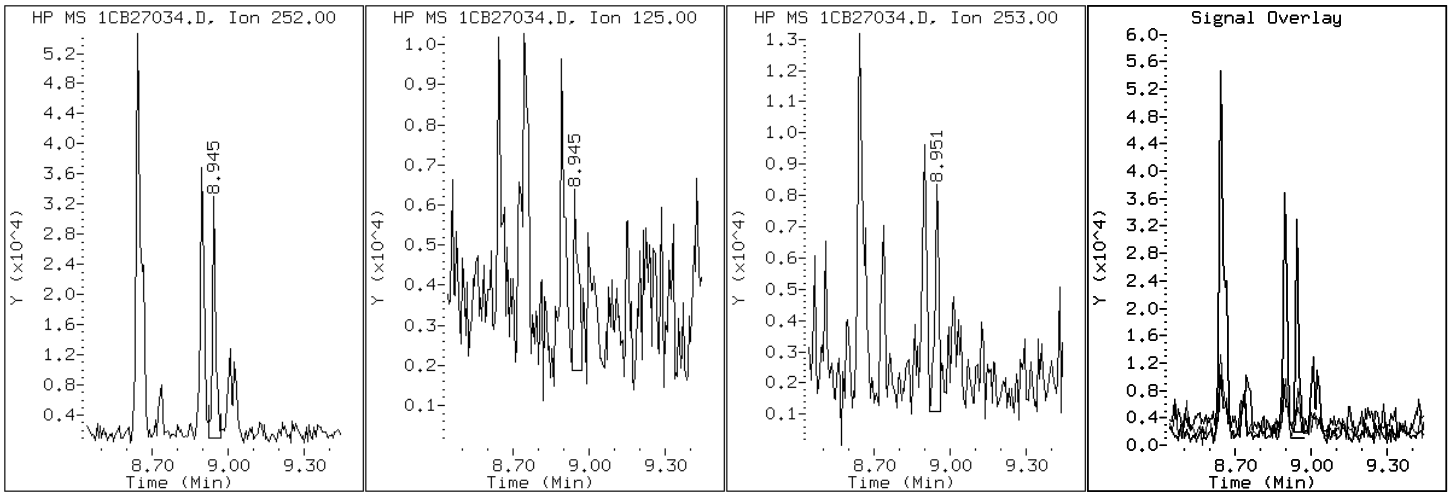
Client ID: FM0161RRRR-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-50-a

Operator: SCC

22 Benzo(a)pyrene



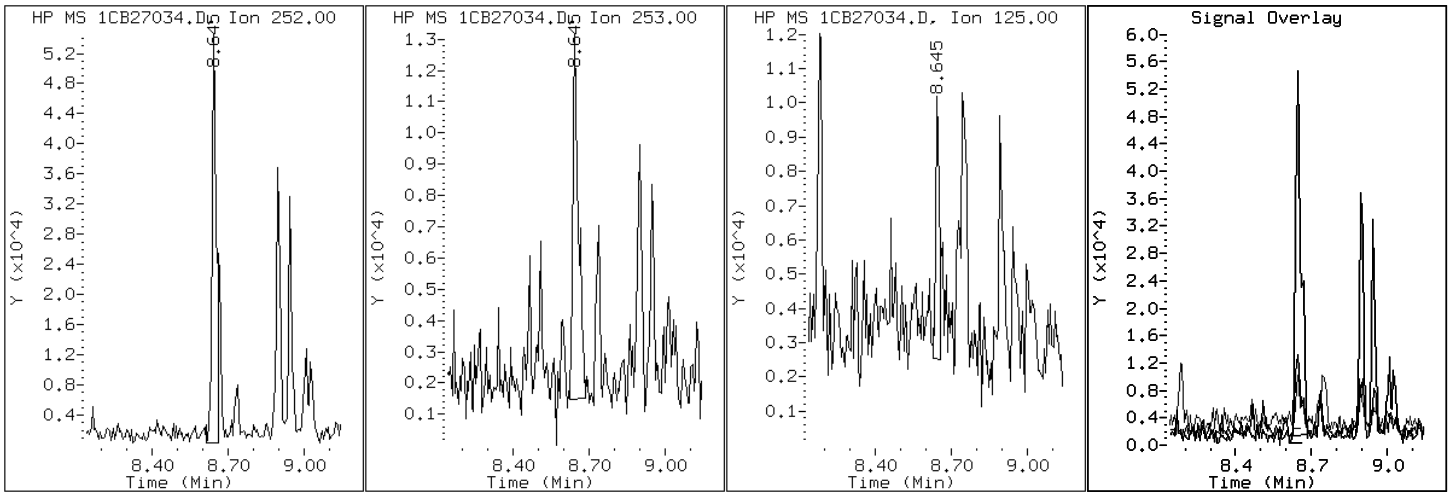
Data File: 1CB27034.D

Date: 27-FEB-2013 22:04

Client ID: FM0161RRRR-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-50-a Operator: SCC

20 Benzo(b)fluoranthene



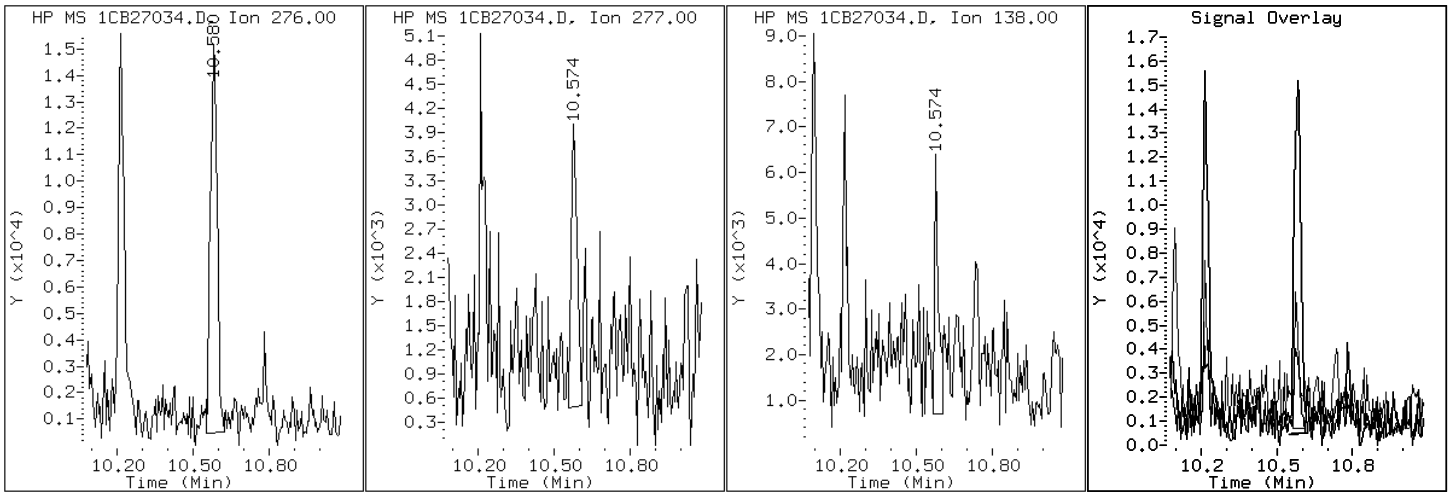
Data File: 1CB27034.D

Date: 27-FEB-2013 22:04

Client ID: FM0161RRRR-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-50-a Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CB27034.D

Date: 27-FEB-2013 22:04

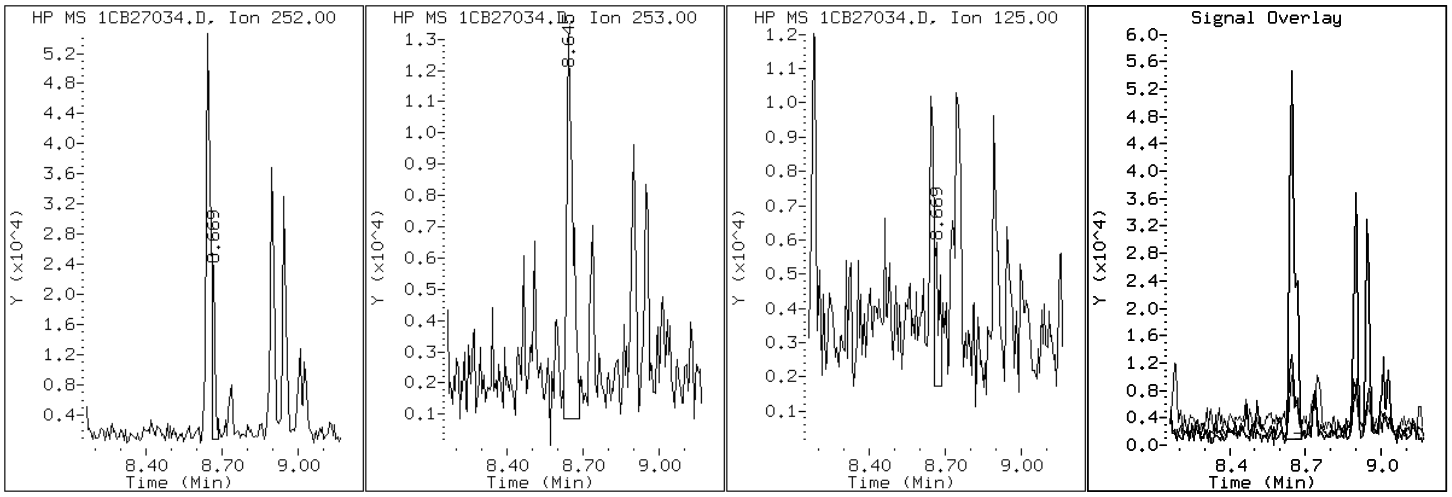
Client ID: FM0161RRRR-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-50-a

Operator: SCC

21 Benzo(k)fluoranthene



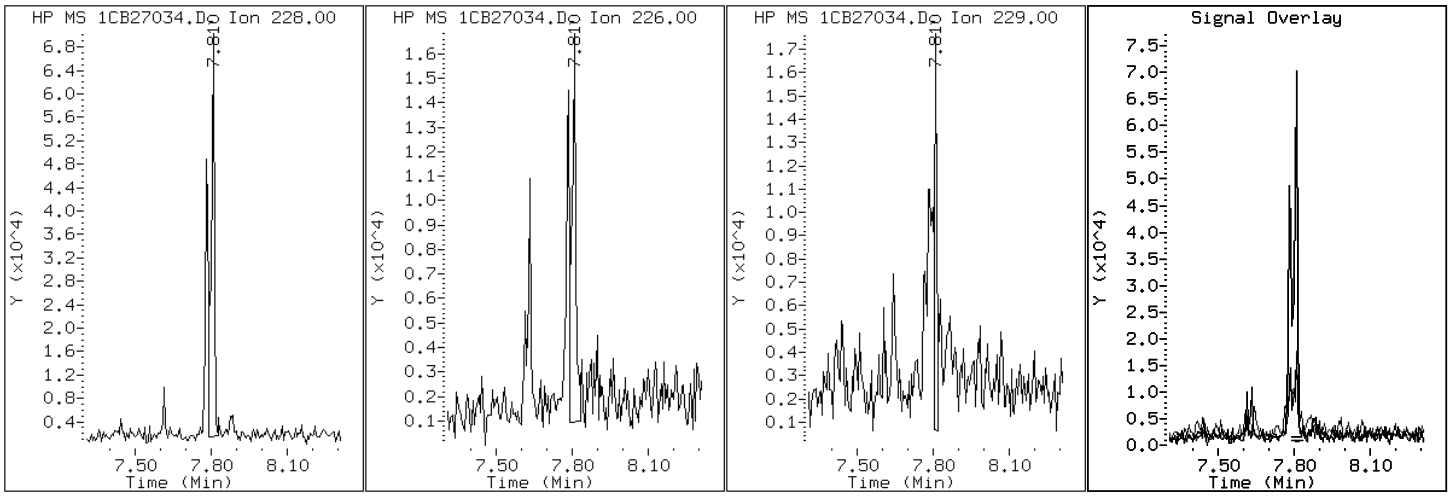
Data File: 1CB27034.D

Date: 27-FEB-2013 22:04

Client ID: FM0161RRRR-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-50-a Operator: SCC

19 Chrysene



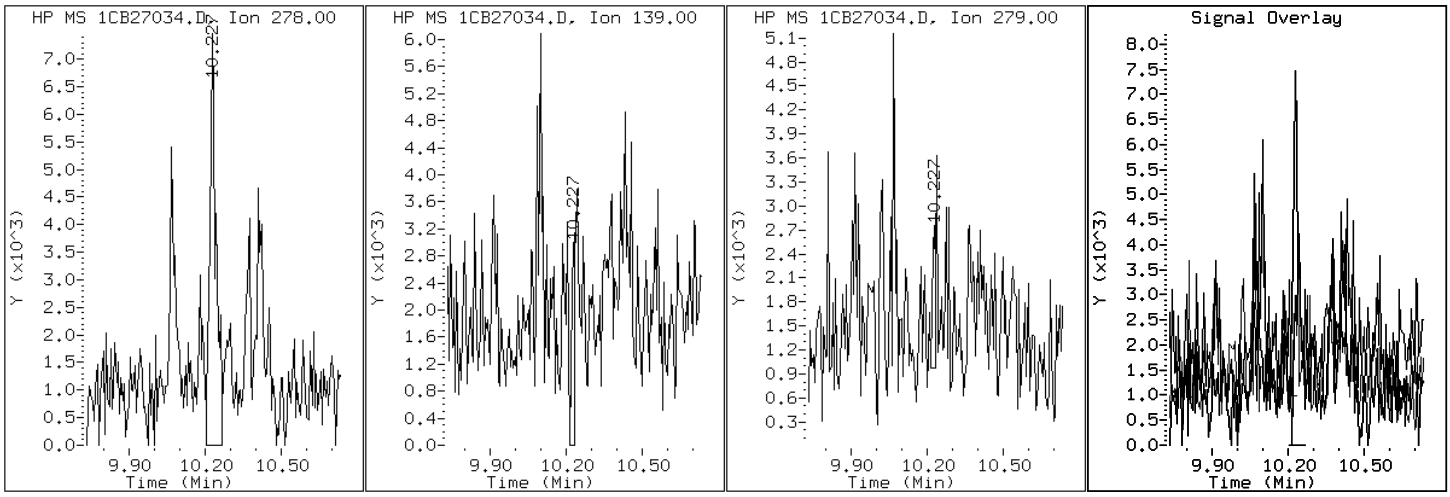
Data File: 1CB27034.D

Date: 27-FEB-2013 22:04

Client ID: FM0161RRRR-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-50-a Operator: SCC

25 Dibenzo(a,h)anthracene



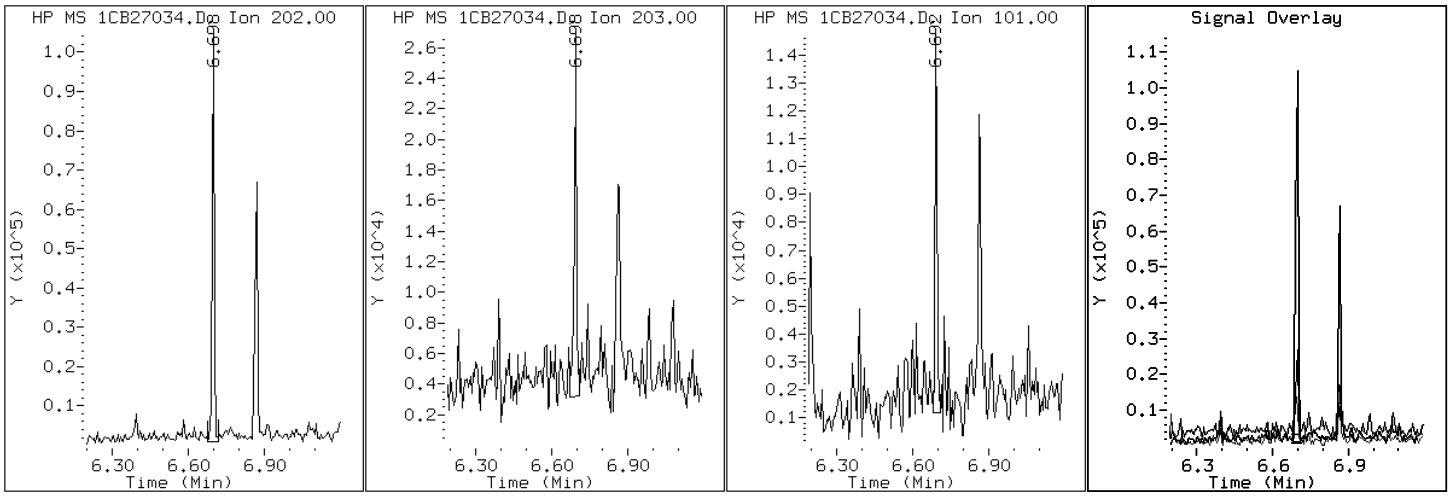
Data File: 1CB27034.D

Date: 27-FEB-2013 22:04

Client ID: FM0161RRRR-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-50-a Operator: SCC

15 Fluoranthene



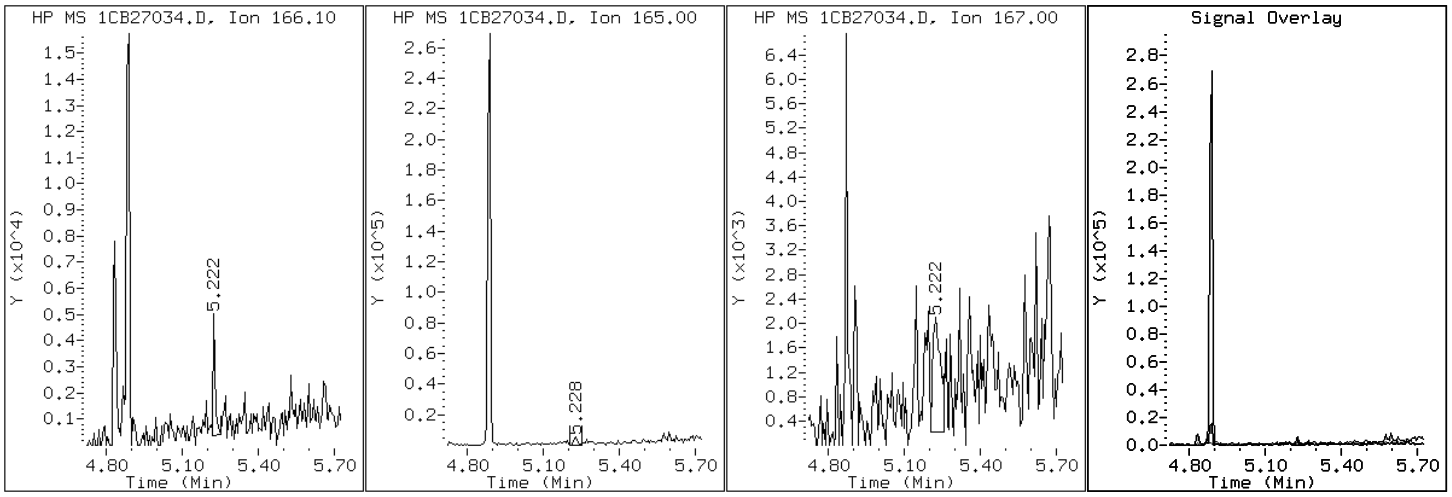
Data File: 1CB27034.D

Date: 27-FEB-2013 22:04

Client ID: FM0161RRRR-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-50-a Operator: SCC

9 Fluorene



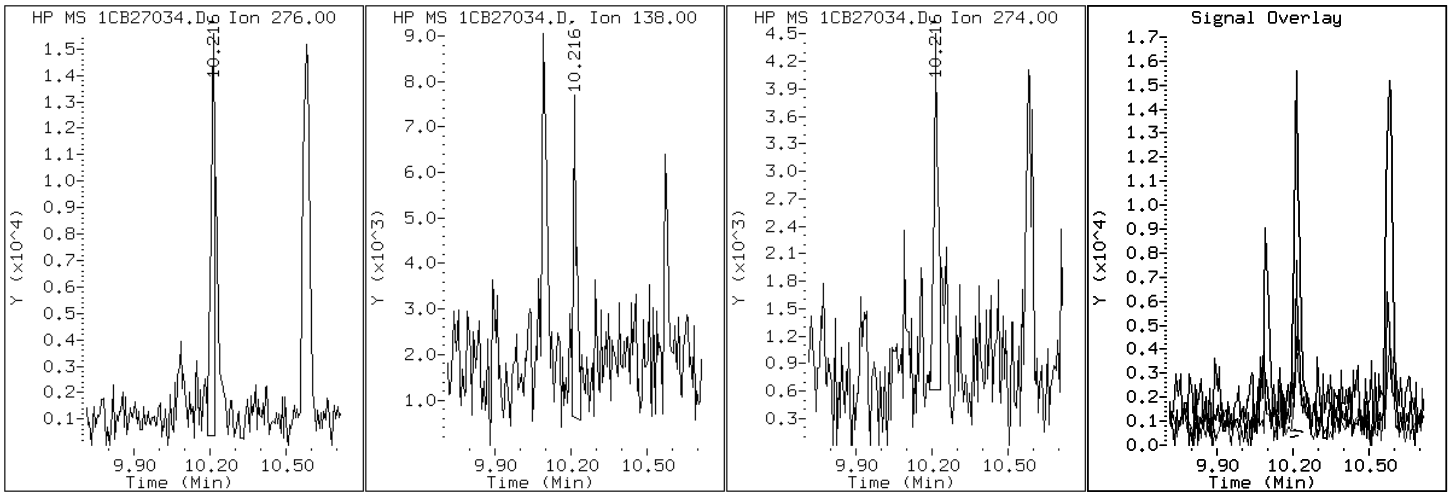
Data File: 1CB27034.D

Date: 27-FEB-2013 22:04

Client ID: FM0161RRRR-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-50-a Operator: SCC

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



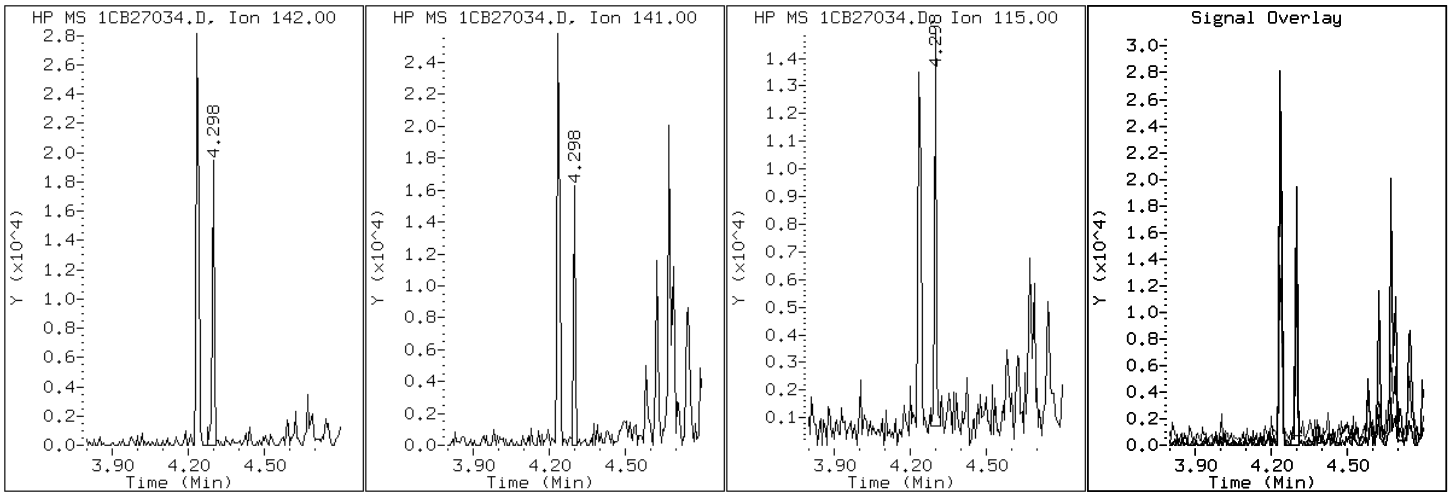
Data File: 1CB27034.D

Date: 27-FEB-2013 22:04

Client ID: FM0161RRRR-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-50-a Operator: SCC

4 1-Methylnaphthalene



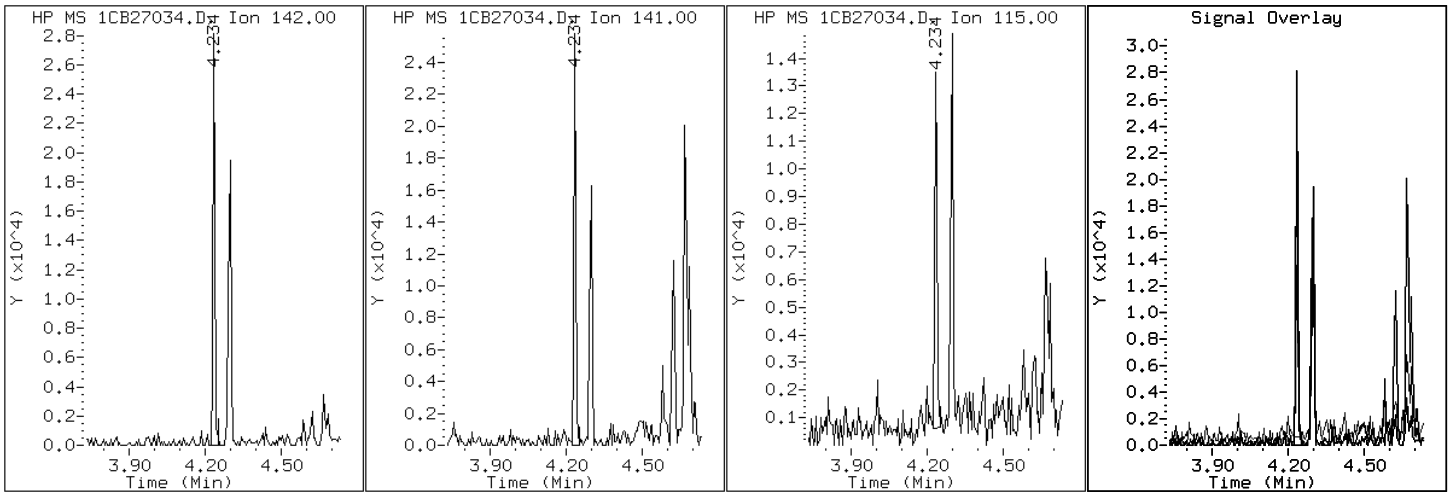
Data File: 1CB27034.D

Date: 27-FEB-2013 22:04

Client ID: FM0161RRRR-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-50-a Operator: SCC

3 2-Methylnaphthalene



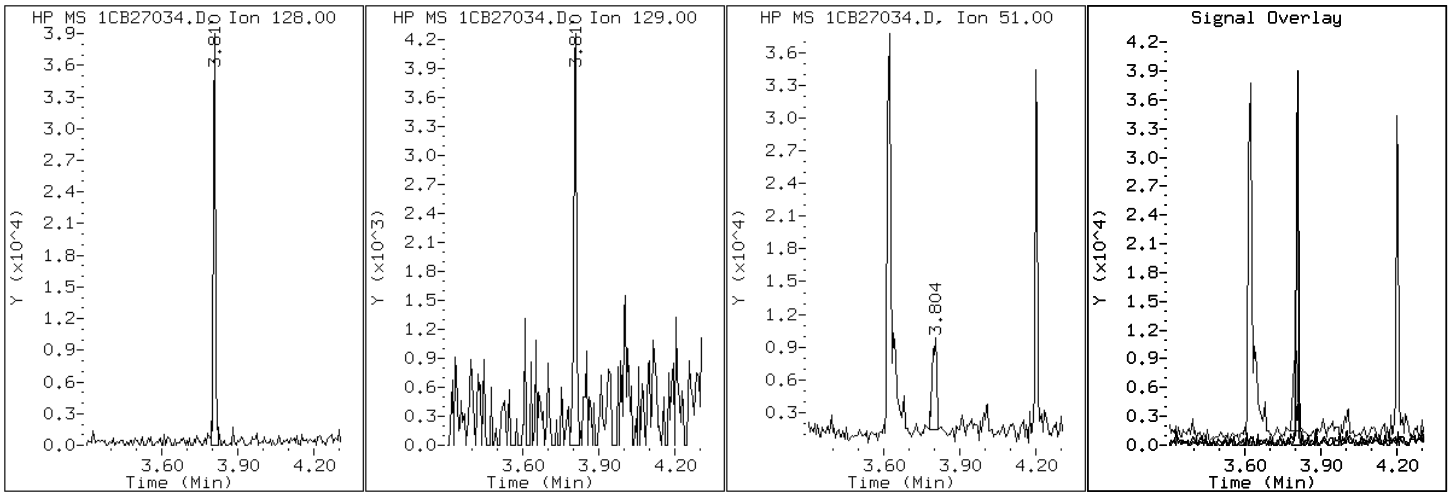
Data File: 1CB27034.D

Date: 27-FEB-2013 22:04

Client ID: FM0161RRRR-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-50-a Operator: SCC

2 Naphthalene



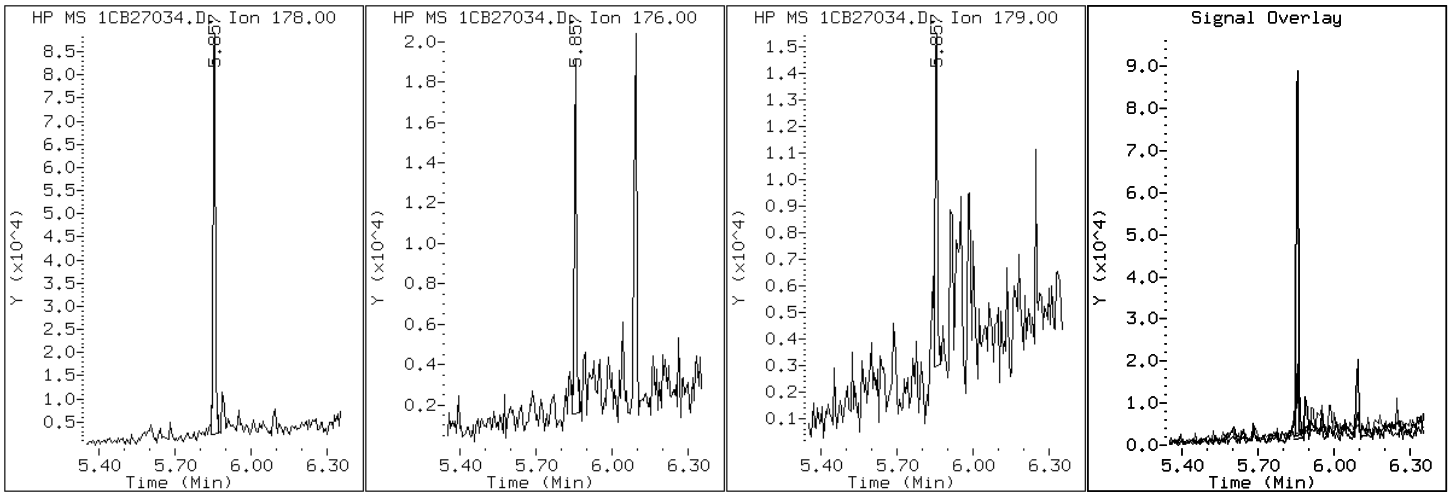
Data File: 1CB27034.D

Date: 27-FEB-2013 22:04

Client ID: FM0161RRRR-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-50-a Operator: SCC

11 Phenanthrene



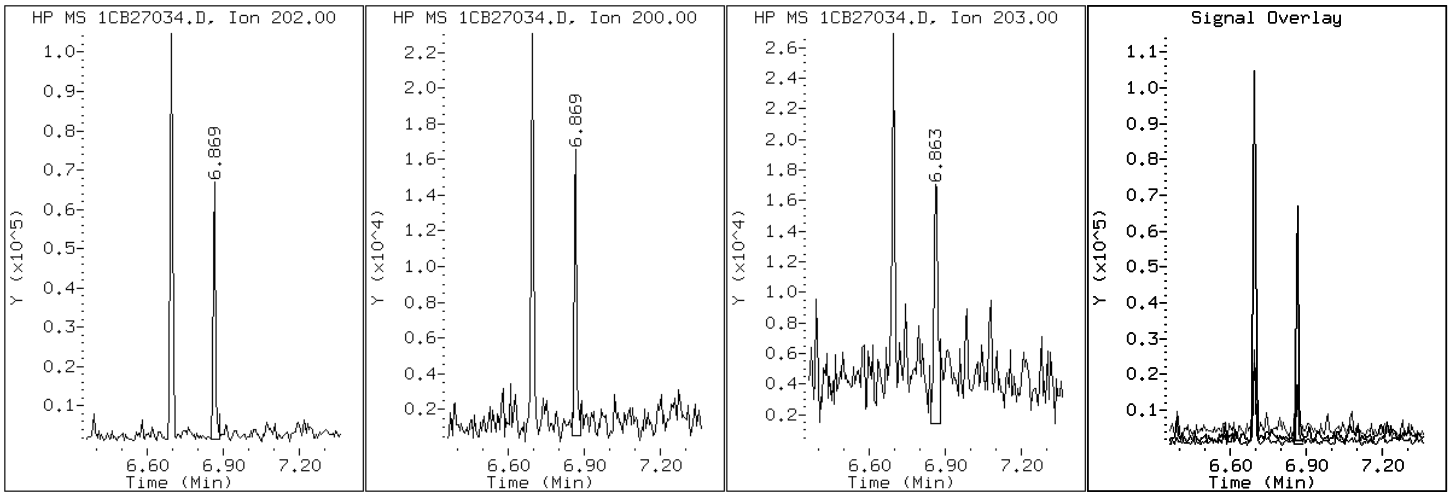
Data File: 1CB27034.D

Date: 27-FEB-2013 22:04

Client ID: FM0161RRRR-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-50-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB27034.D
Inj. Date and Time: 27-FEB-2013 22:04
Instrument ID: BSMC5973.i
Client ID: FM0161RRRR-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/01/2013

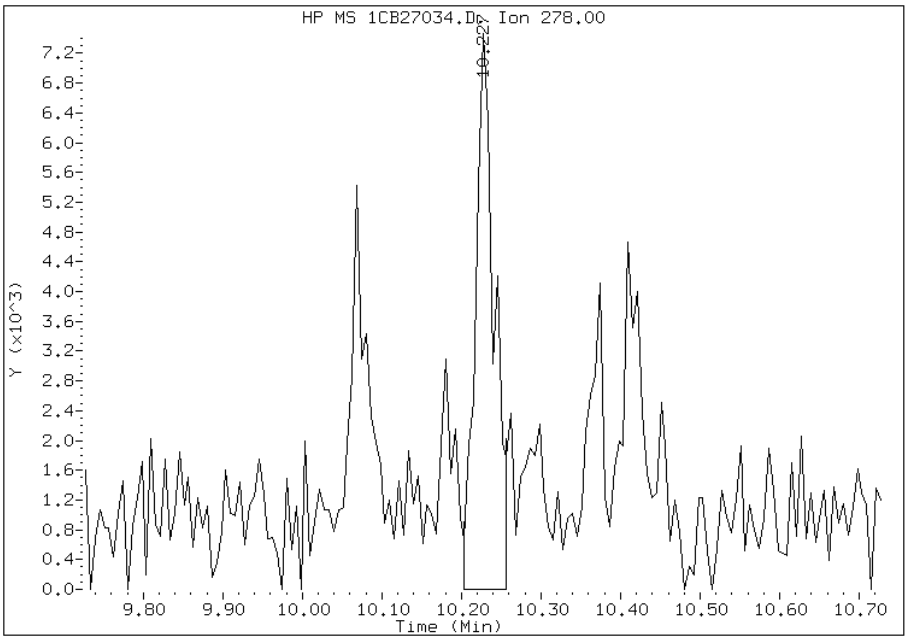
Processing Integration Results

RT: 10.23

Response: 12454

Amount: 0

Conc: 19



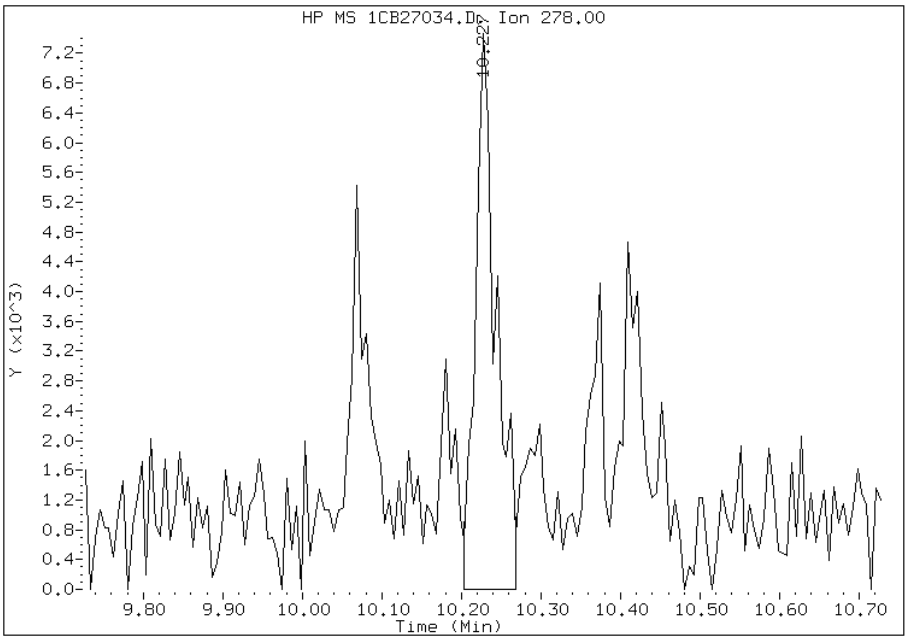
Manual Integration Results

RT: 10.23

Response: 13550

Amount: 0

Conc: 21



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:45
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB27034.D
Inj. Date and Time: 27-FEB-2013 22:04
Instrument ID: BSMC5973.i
Client ID: FM0161RRRR-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/01/2013

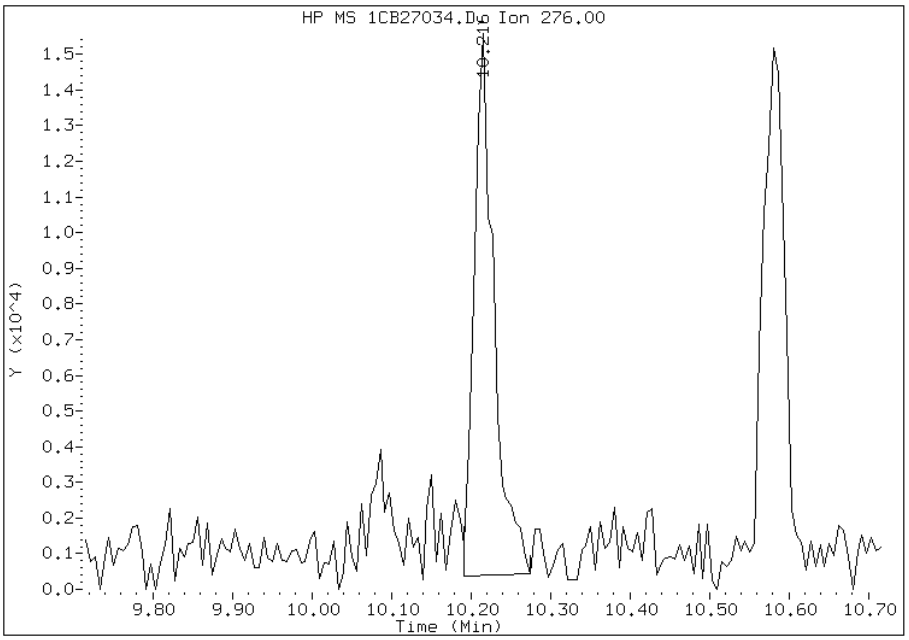
Processing Integration Results

RT: 10.22

Response: 26079

Amount: 0

Conc: 39



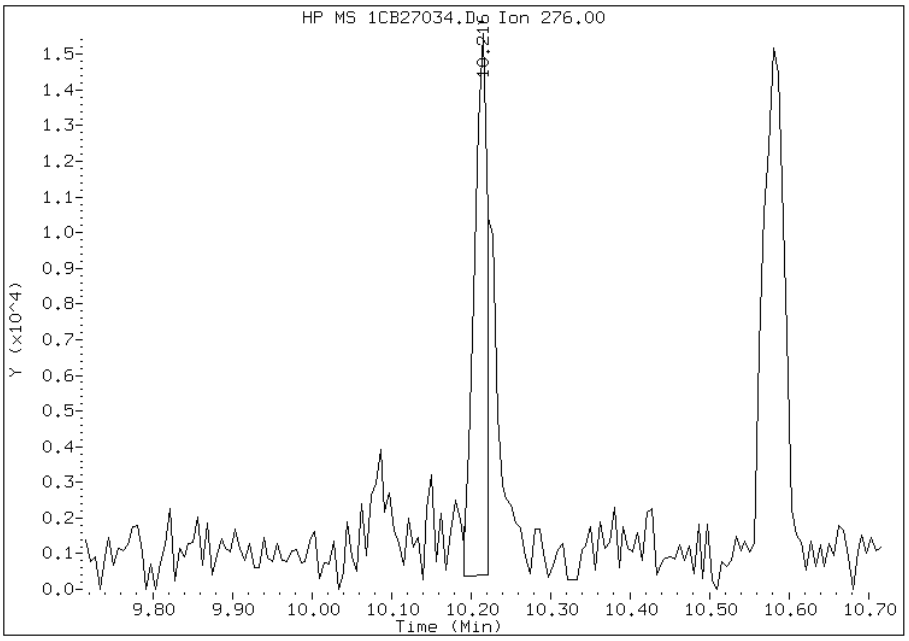
Manual Integration Results

RT: 10.22

Response: 17693

Amount: 0

Conc: 26



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:46
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87655-3

SDG No.: 68087655-3

Client Sample ID: FM0161SSSS-CS | Lab Sample ID: 680-87655-51

Matrix: Solid | Lab File ID: 1CB27035.D

Analysis Method: 8270C LL | Date Collected: 02/19/2013 14:01

Extract. Method: 3546 | Date Extracted: 02/25/2013 14:06

Sample wt/vol: 15.21(g) | Date Analyzed: 02/27/2013 22:22

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

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

% Moisture: 24.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134903 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	7.0	J	52	6.6
120-12-7	Anthracene	17		11	5.5
56-55-3	Benzo[a]anthracene	78		10	5.1
50-32-8	Benzo[a]pyrene	67		14	6.8
205-99-2	Benzo[b]fluoranthene	110		16	8.0
191-24-2	Benzo[g,h,i]perylene	53		26	5.8
207-08-9	Benzo[k]fluoranthene	47		10	4.7
218-01-9	Chrysene	90		12	5.9
53-70-3	Dibenz(a,h)anthracene	19	J	26	5.4
206-44-0	Fluoranthene	120		26	5.2
86-73-7	Fluorene	9.8	J	26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	47		26	9.3
90-12-0	1-Methylnaphthalene	57		52	5.8
91-57-6	2-Methylnaphthalene	60		52	9.3
91-20-3	Naphthalene	58		52	5.8
85-01-8	Phenanthrene	100		10	5.1
129-00-0	Pyrene	110		26	4.9

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\1CB27035.D
Lab Smp Id: 680-87655-A-51-A Client Smp ID: FM0161SSSS-CS
Inj Date : 27-FEB-2013 22:22
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87655-a-51-a
Misc Info : 680-87655-A-51-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\a-bFASTPAHi-m.m
Meth Date : 27-Feb-2013 16:31 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

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	15.210	Weight Extracted
M	24.800	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.798	3.792	(1.000)	1851408	40.0000	
* 6 Acenaphthene-d10	164	4.886	4.880	(1.000)	1455702	40.0000	
* 10 Phenanthrene-d10	188	5.839	5.839	(1.000)	2617354	40.0000	
$ 14 o-Terphenyl	230	6.092	6.092	(1.043)	286024	7.23789	632.7993
* 18 Chrysene-d12	240	7.792	7.792	(1.000)	2672432	40.0000	
* 23 Perylene-d12	264	9.003	9.004	(1.000)	2478847	40.0000	
2 Naphthalene	128	3.810	3.804	(1.003)	31995	0.66381	58.0358
3 2-Methylnaphthalene	142	4.233	4.233	(1.115)	21900	0.68116	59.5530
4 1-Methylnaphthalene	142	4.298	4.298	(1.132)	18980	0.64818	56.6698
5 Acenaphthylene	152	4.798	4.798	(0.982)	4682	0.07978	6.9747
9 Fluorene	166	5.221	5.221	(1.069)	5154	0.11172	9.7673(Q)
11 Phenanthrene	178	5.857	5.851	(1.003)	88069	1.16367	101.7378
12 Anthracene	178	5.886	5.886	(1.008)	14633	0.19770	17.2844
13 Carbazole	167	5.998	5.992	(1.027)	9168	0.13934	12.1823(Q)
15 Fluoranthene	202	6.698	6.698	(1.147)	111167	1.34128	117.2663

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.868	6.863	(0.881)	94119	1.31053	114.5774
17 Benzo(a)anthracene	228	7.780	7.780	(0.998)	68403	0.88684	77.5348
19 Chrysene	228	7.809	7.810	(1.002)	79415	1.02883	89.9494
20 Benzo(b)fluoranthene	252	8.645	8.645	(0.960)	78589	1.21314	106.0632(M)
21 Benzo(k)fluoranthene	252	8.656	8.668	(0.961)	35955	0.54104	47.3021(MH)
22 Benzo(a)pyrene	252	8.945	8.945	(0.993)	48229	0.76646	67.0109
24 Indeno(1,2,3-cd)pyrene	276	10.215	10.215	(1.135)	32083	0.54200	47.3863(M)
25 Dibenzo(a,h)anthracene	278	10.233	10.233	(1.137)	12620	0.21796	19.0562
26 Benzo(g,h,i)perylene	276	10.574	10.580	(1.174)	37681	0.60853	53.2027(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: 1CB27035.D

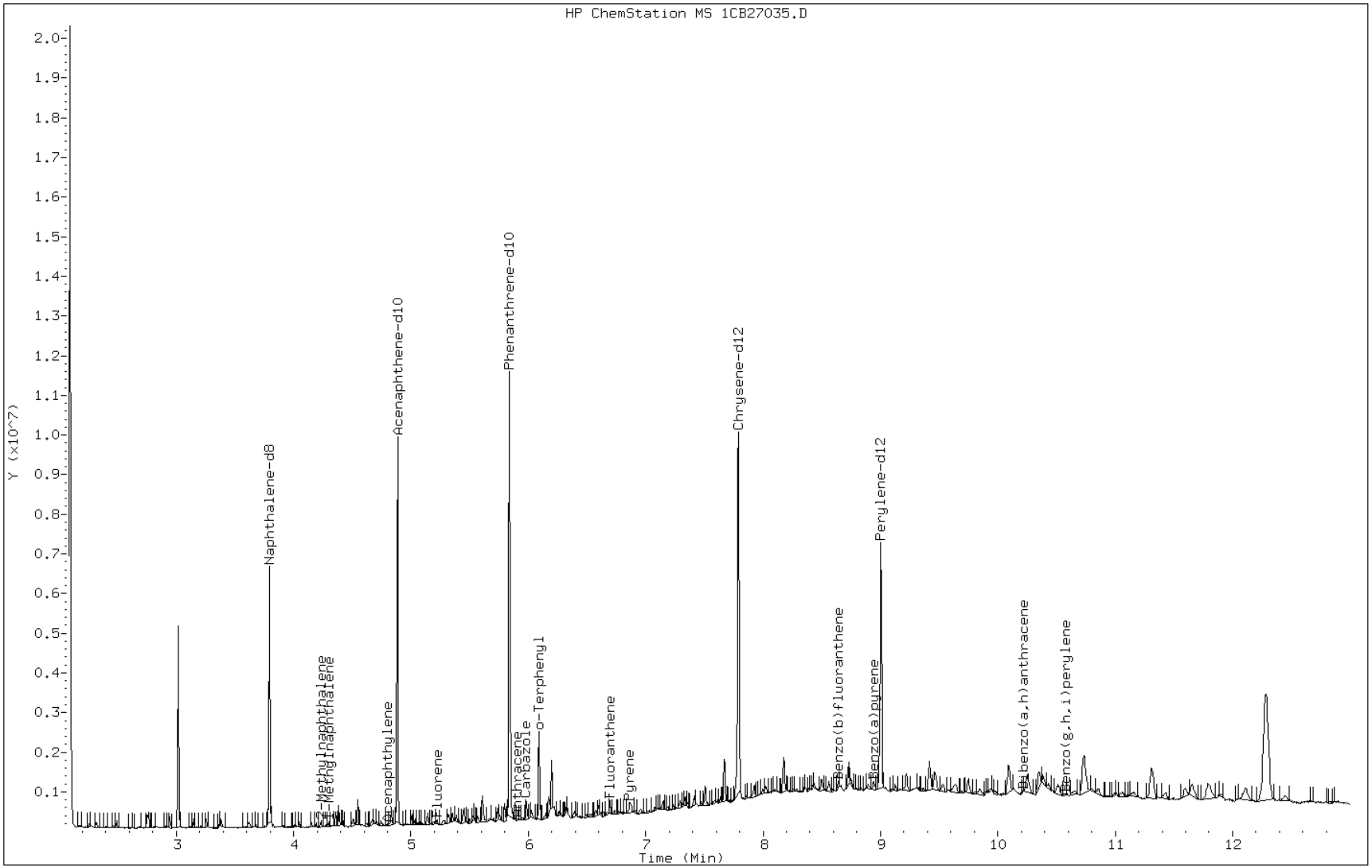
Date: 27-FEB-2013 22:22

Client ID: FM0161SSSS-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-51-a

Operator: SCC



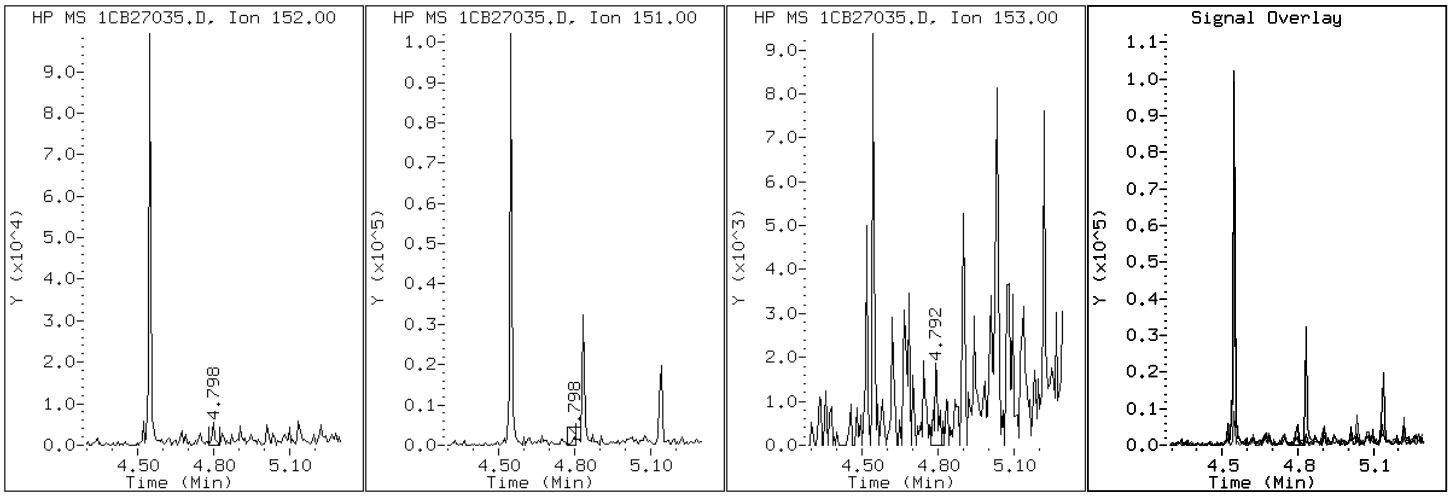
Data File: 1CB27035.D

Date: 27-FEB-2013 22:22

Client ID: FM0161SSSS-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-51-a Operator: SCC

5 Acenaphthylene



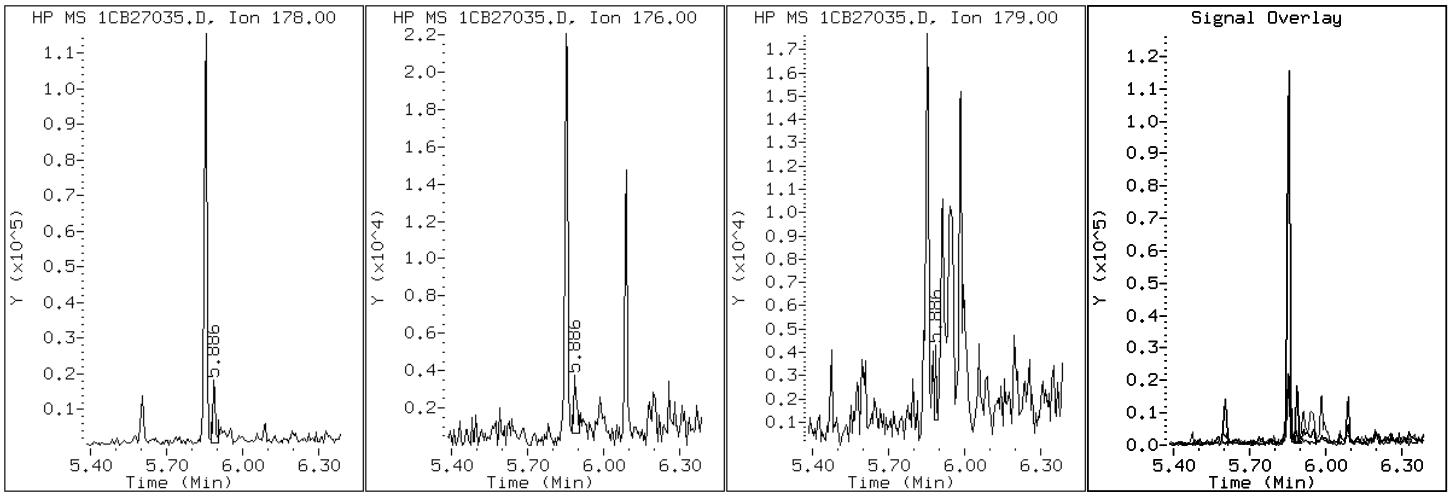
Data File: 1CB27035.D

Date: 27-FEB-2013 22:22

Client ID: FM0161SSSS-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-51-a Operator: SCC

12 Anthracene



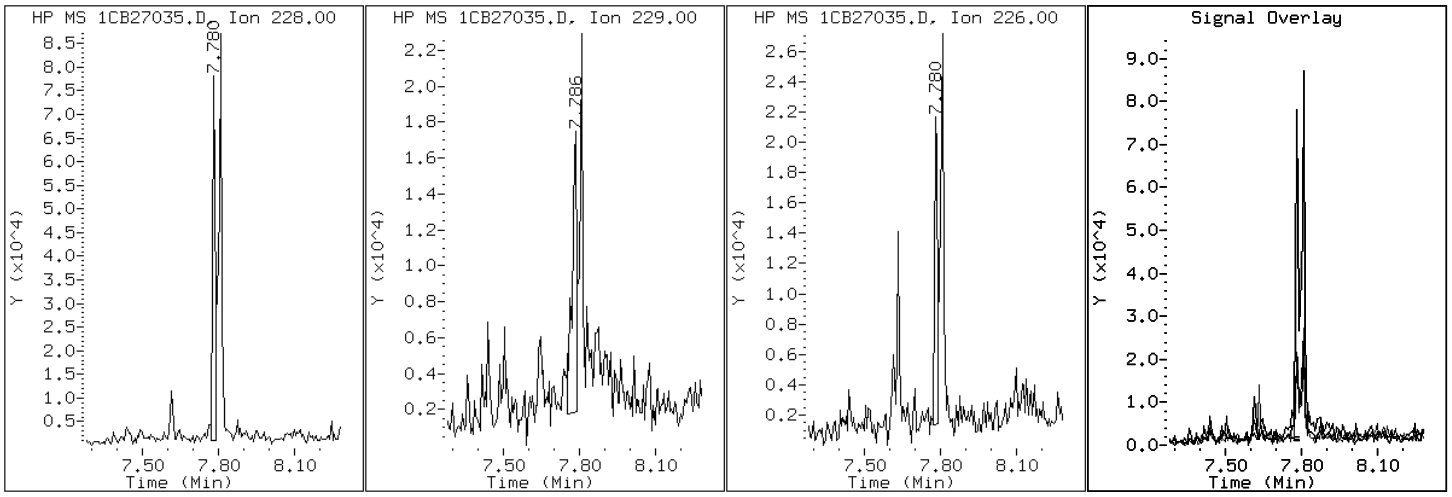
Data File: 1CB27035.D

Date: 27-FEB-2013 22:22

Client ID: FM0161SSSS-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-51-a Operator: SCC

17 Benzo(a)anthracene



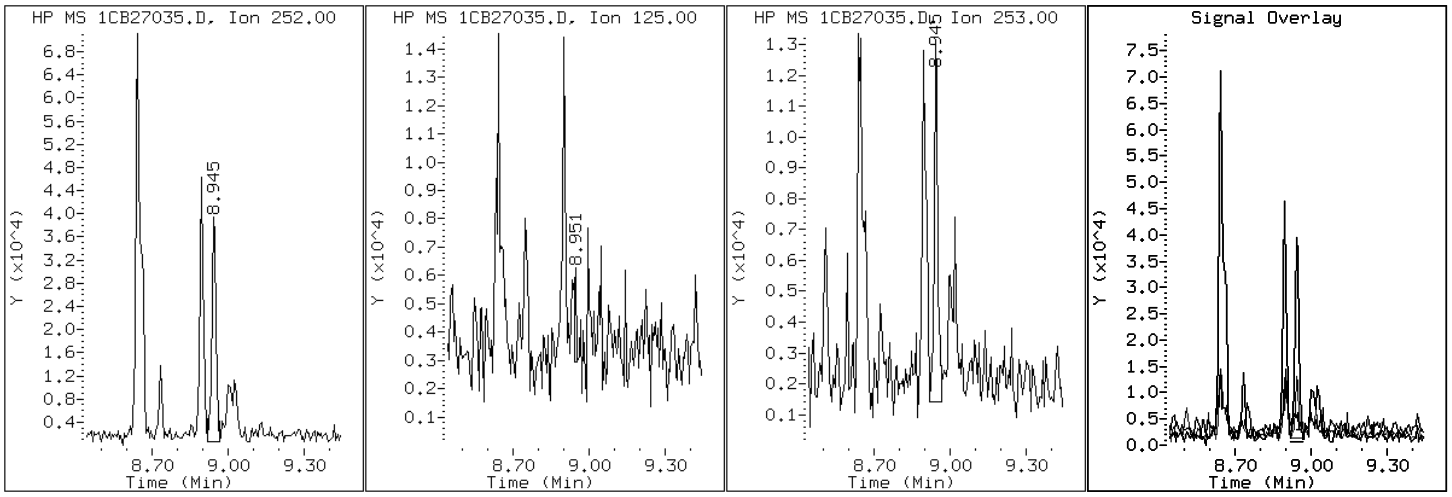
Data File: 1CB27035.D

Date: 27-FEB-2013 22:22

Client ID: FM0161SSSS-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-51-a Operator: SCC

22 Benzo(a)pyrene



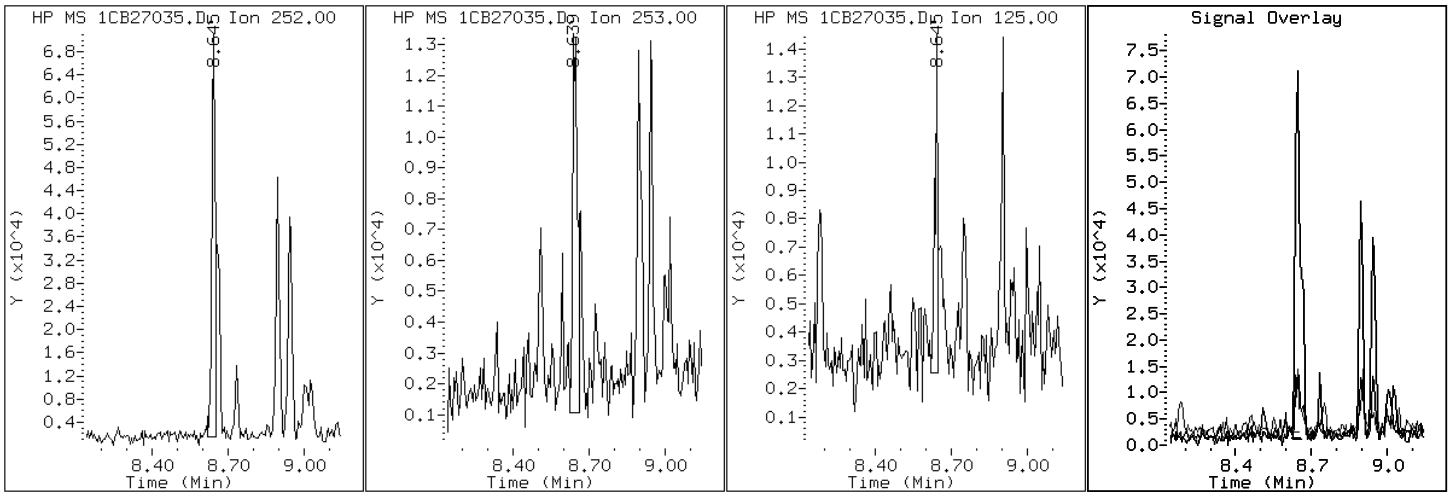
Data File: 1CB27035.D

Date: 27-FEB-2013 22:22

Client ID: FM0161SSSS-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-51-a Operator: SCC

20 Benzo(b)fluoranthene



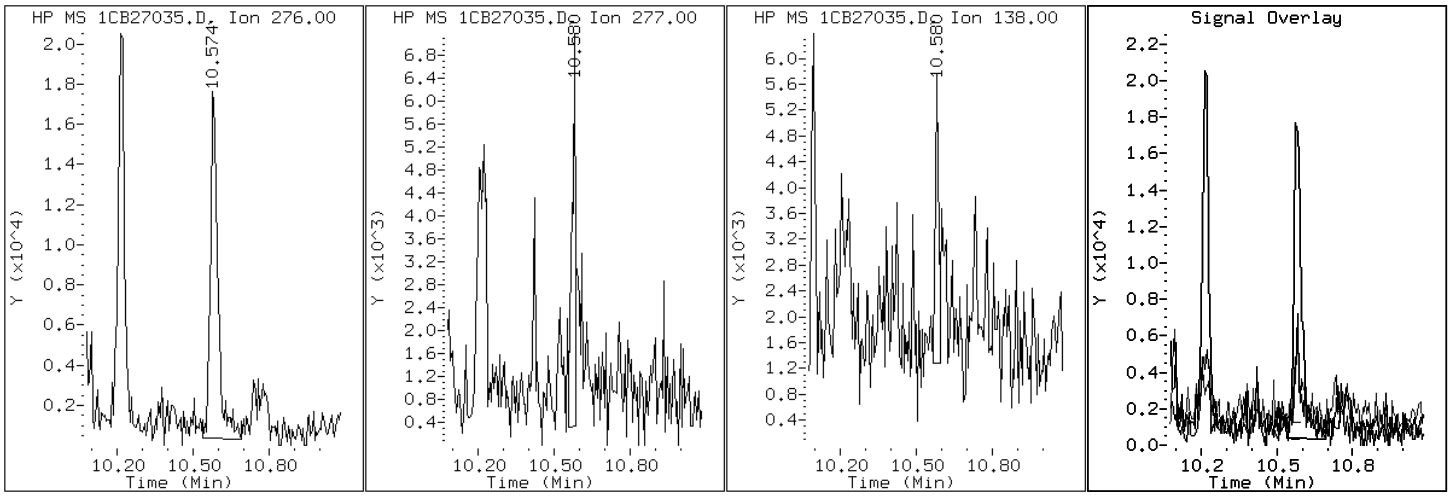
Data File: 1CB27035.D

Date: 27-FEB-2013 22:22

Client ID: FM0161SSSS-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-51-a Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CB27035.D

Date: 27-FEB-2013 22:22

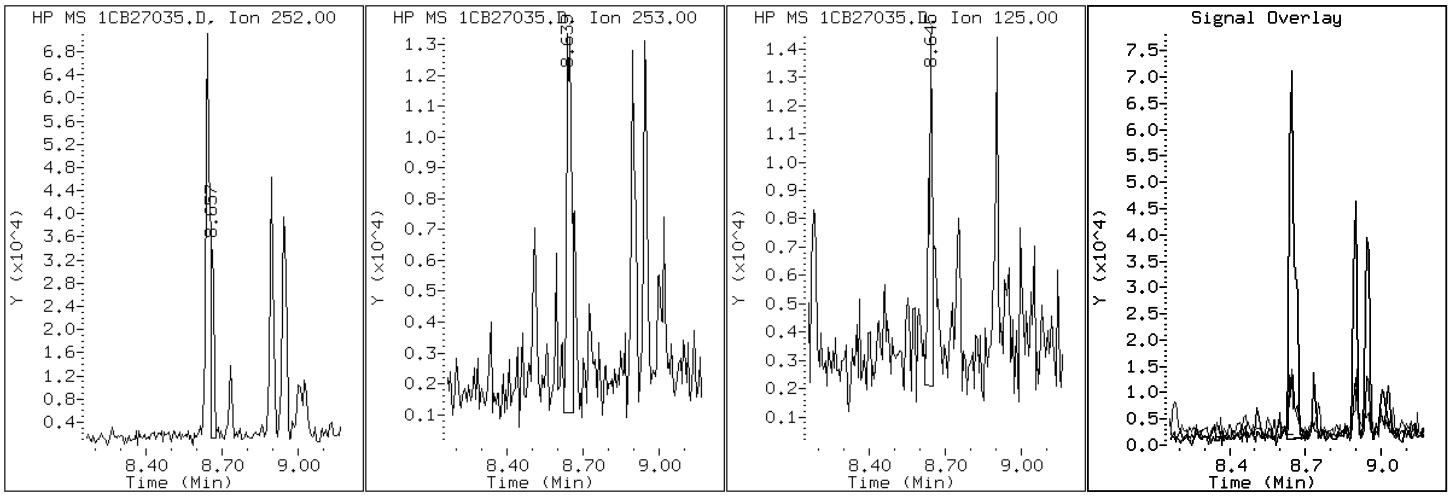
Client ID: FM0161SSSS-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-51-a

Operator: SCC

21 Benzo(k)fluoranthene



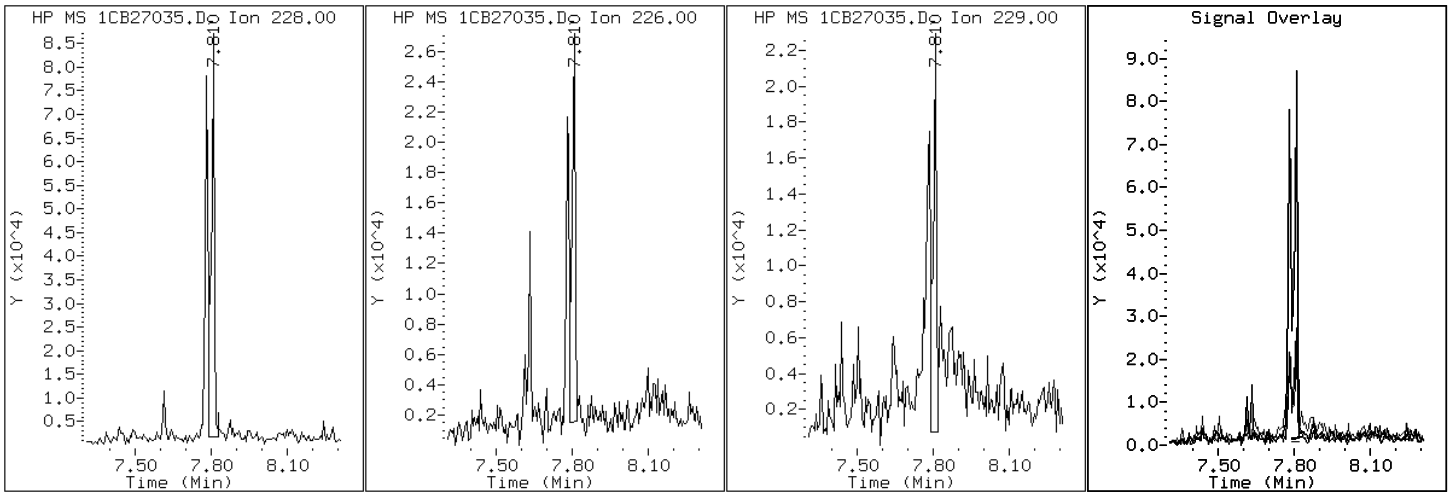
Data File: 1CB27035.D

Date: 27-FEB-2013 22:22

Client ID: FM0161SSSS-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-51-a Operator: SCC

19 Chrysene



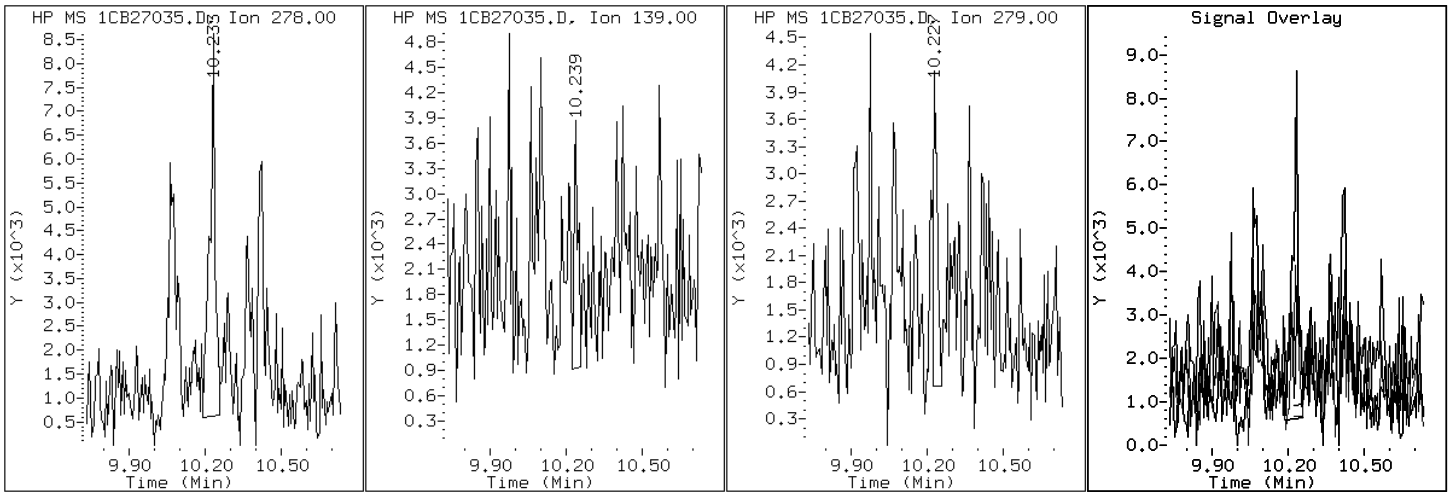
Data File: 1CB27035.D

Date: 27-FEB-2013 22:22

Client ID: FM0161SSSS-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-51-a Operator: SCC

25 Dibenzo(a,h)anthracene



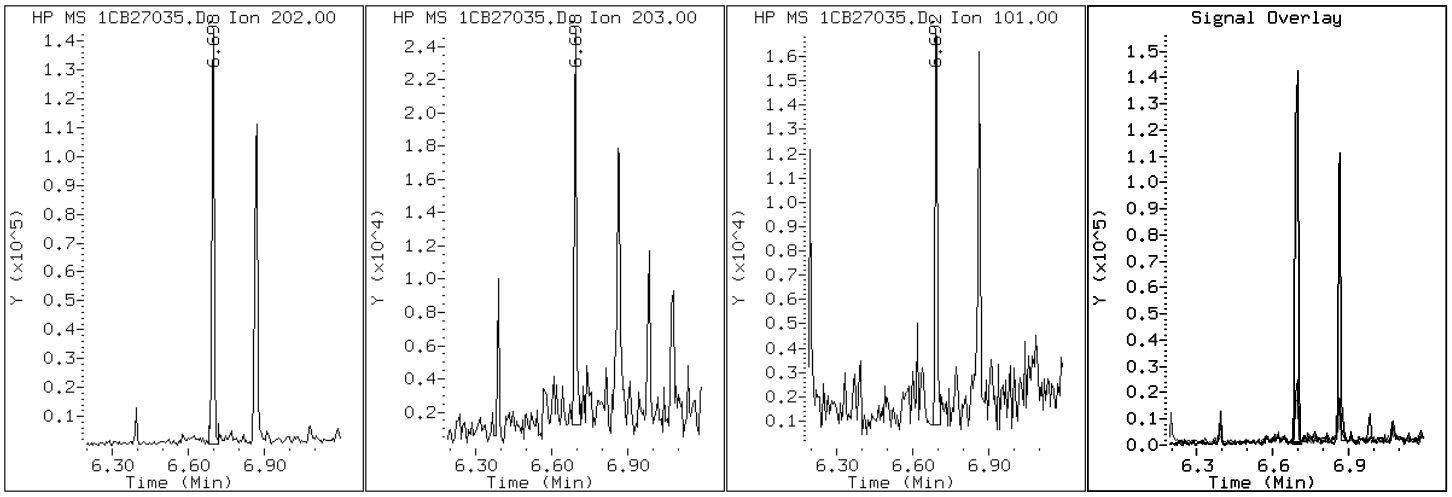
Data File: 1CB27035.D

Date: 27-FEB-2013 22:22

Client ID: FM0161SSSS-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-51-a Operator: SCC

15 Fluoranthene



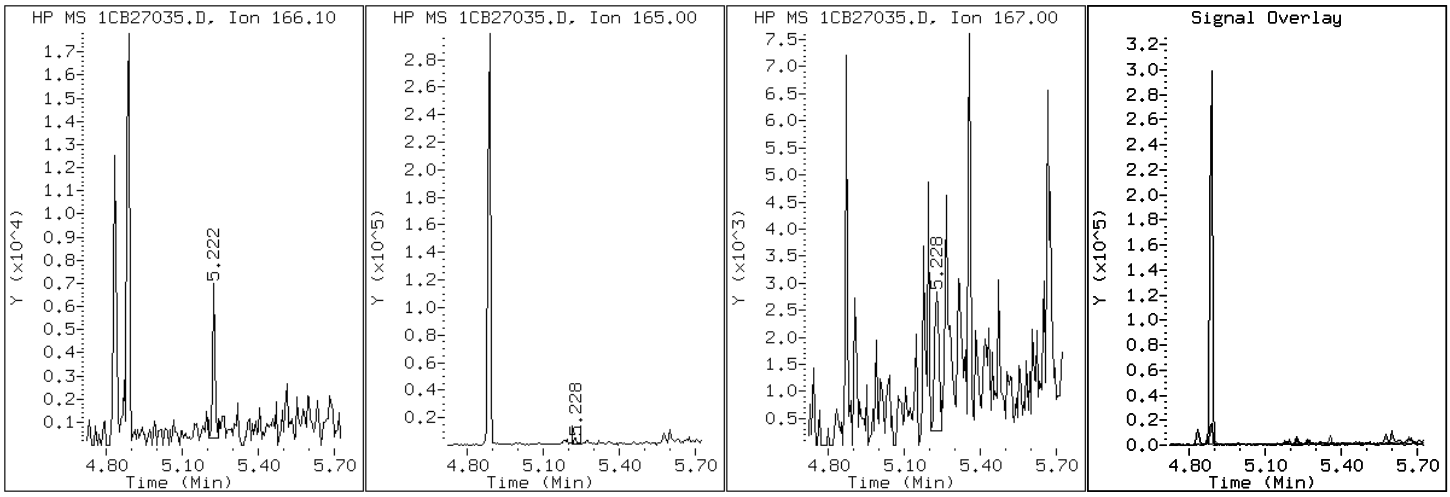
Data File: 1CB27035.D

Date: 27-FEB-2013 22:22

Client ID: FM0161SSSS-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-51-a Operator: SCC

9 Fluorene



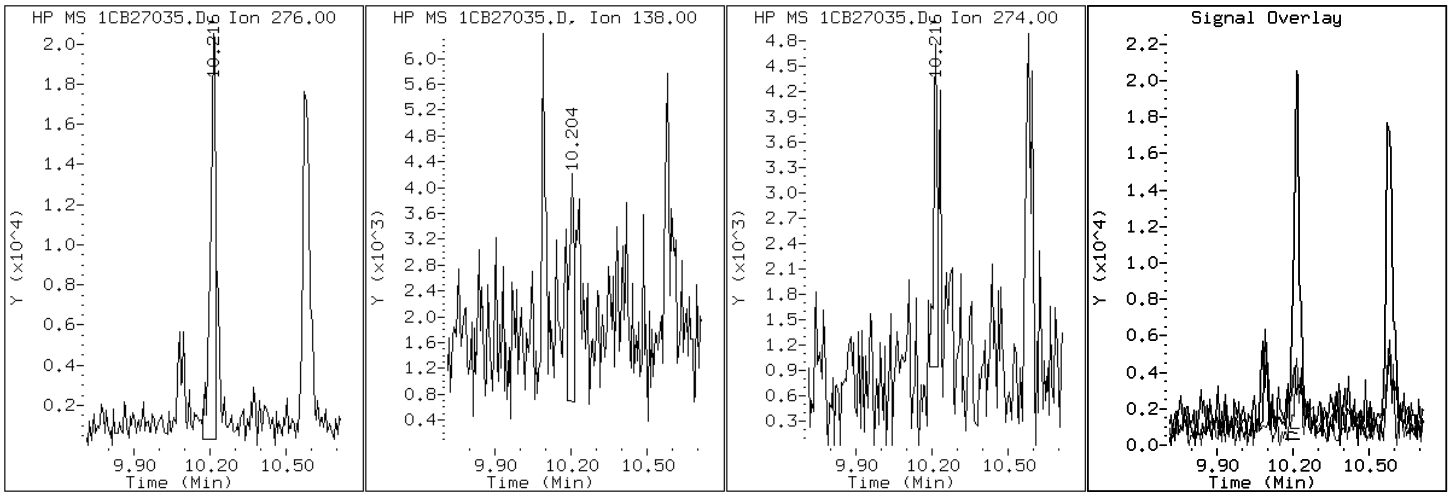
Data File: 1CB27035.D

Date: 27-FEB-2013 22:22

Client ID: FM0161SSSS-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-51-a Operator: SCC

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



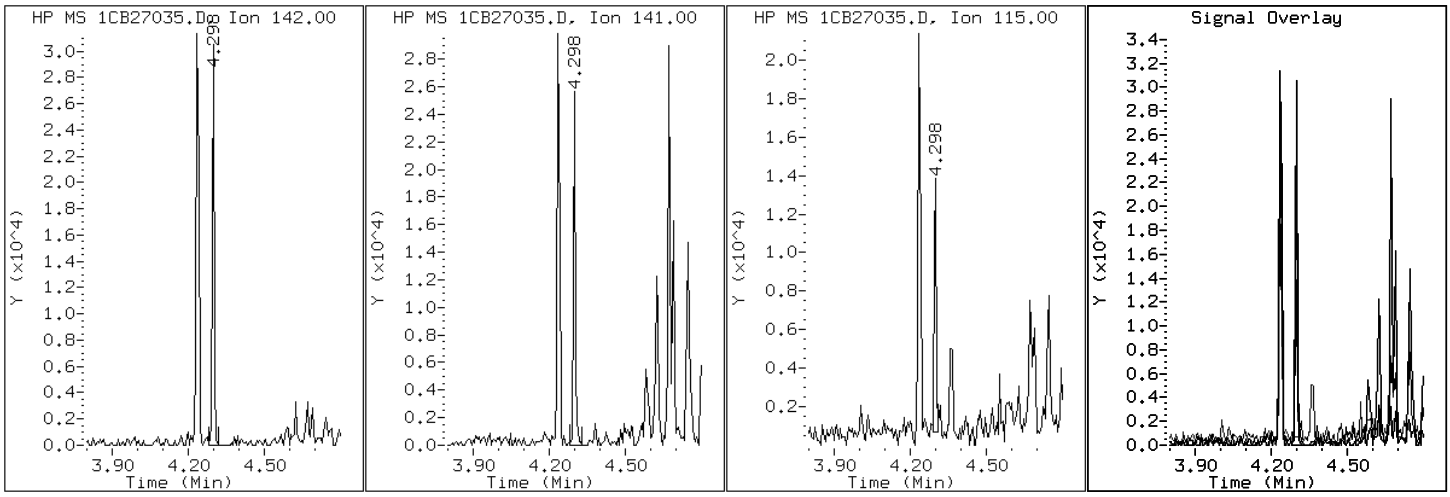
Data File: 1CB27035.D

Date: 27-FEB-2013 22:22

Client ID: FM0161SSSS-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-51-a Operator: SCC

4 1-Methylnaphthalene



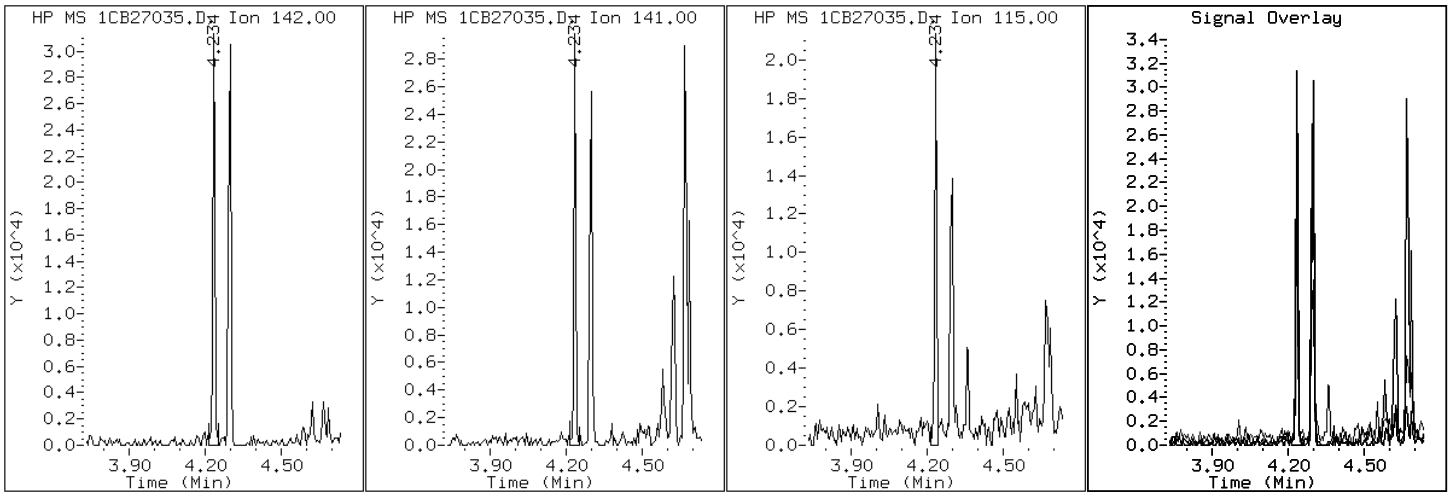
Data File: 1CB27035.D

Date: 27-FEB-2013 22:22

Client ID: FM0161SSSS-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-51-a Operator: SCC

3 2-Methylnaphthalene



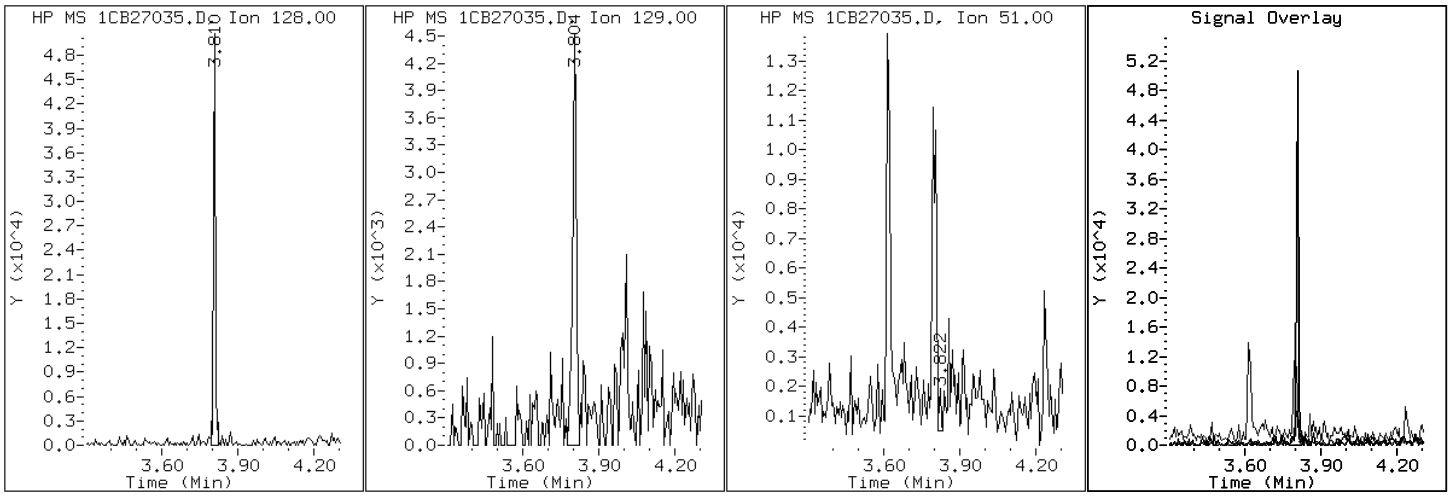
Data File: 1CB27035.D

Date: 27-FEB-2013 22:22

Client ID: FM0161SSSS-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-51-a Operator: SCC

2 Naphthalene



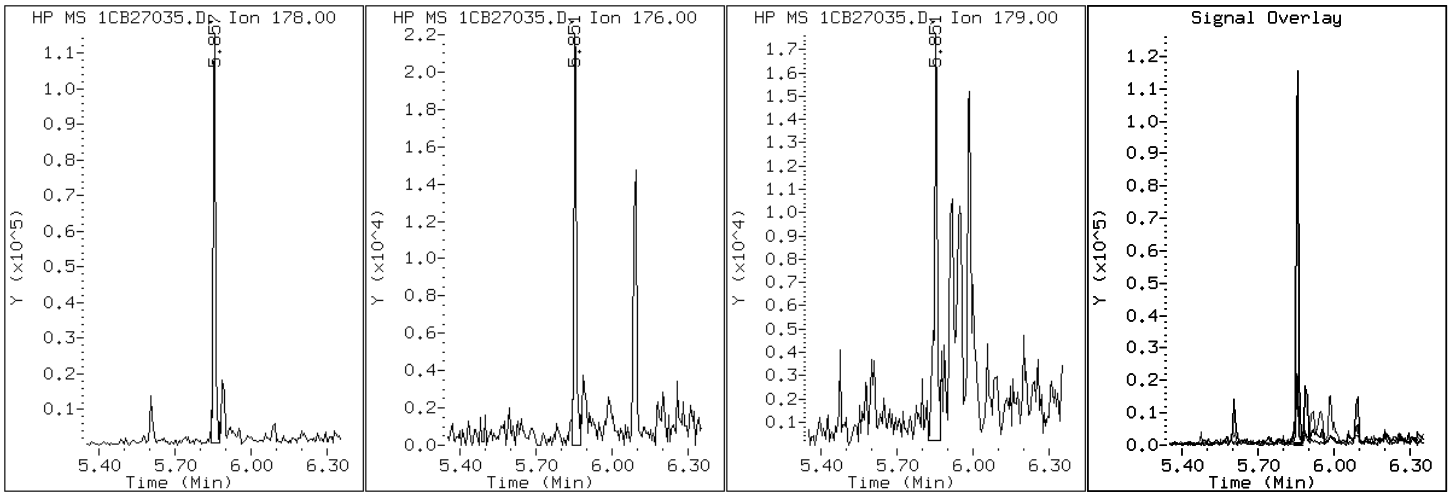
Data File: 1CB27035.D

Date: 27-FEB-2013 22:22

Client ID: FM0161SSSS-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-51-a Operator: SCC

11 Phenanthrene



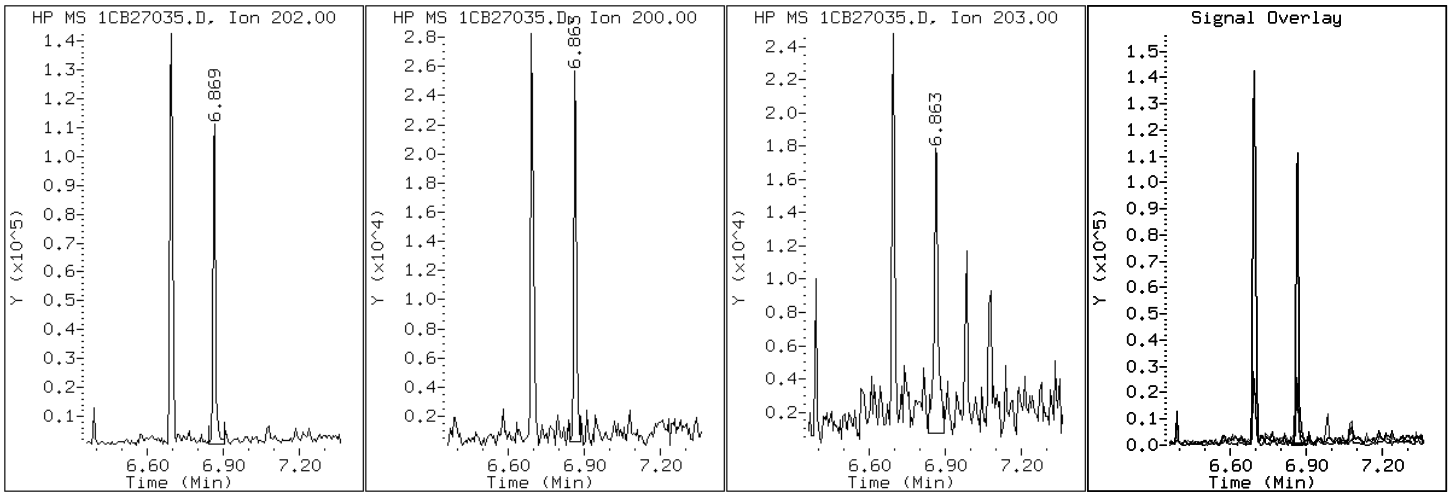
Data File: 1CB27035.D

Date: 27-FEB-2013 22:22

Client ID: FM0161SSSS-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-51-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB27035.D
Inj. Date and Time: 27-FEB-2013 22:22
Instrument ID: BSMC5973.i
Client ID: FM0161SSSS-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/01/2013

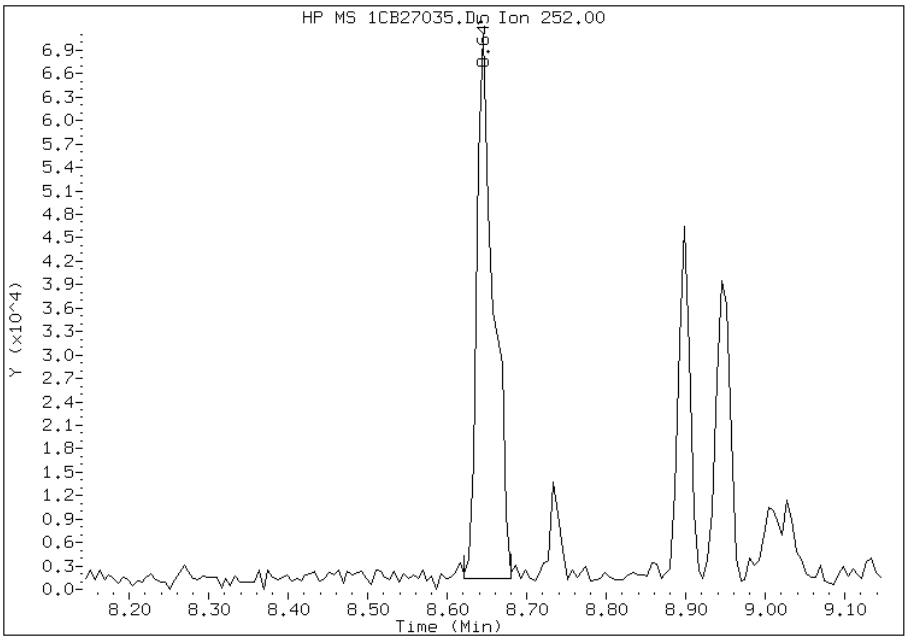
Processing Integration Results

RT: 8.65

Response: 102193

Amount: 2

Conc: 138



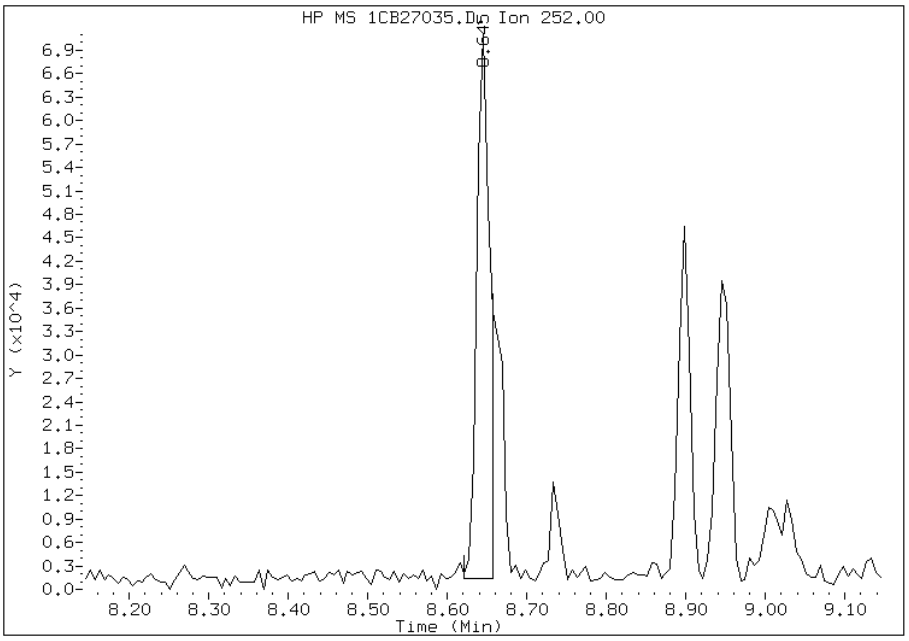
Manual Integration Results

RT: 8.65

Response: 78589

Amount: 1

Conc: 106



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:46
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB27035.D
Inj. Date and Time: 27-FEB-2013 22:22
Instrument ID: BSMC5973.i
Client ID: FM0161SSSS-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/01/2013

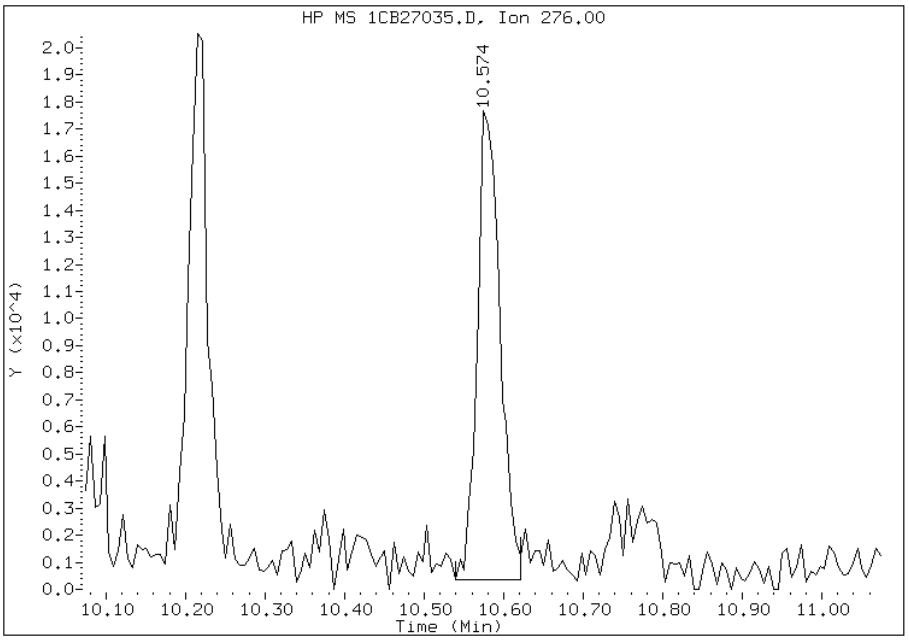
Processing Integration Results

RT: 10.57

Response: 34409

Amount: 1

Conc: 49



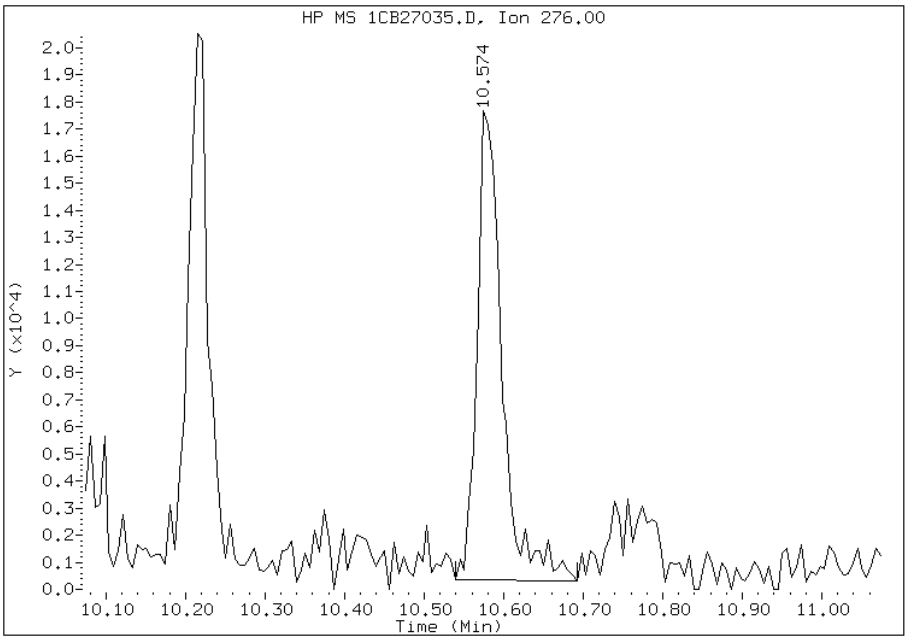
Manual Integration Results

RT: 10.57

Response: 37681

Amount: 1

Conc: 53



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB27035.D
Inj. Date and Time: 27-FEB-2013 22:22
Instrument ID: BSMC5973.i
Client ID: FM0161SSSS-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/01/2013

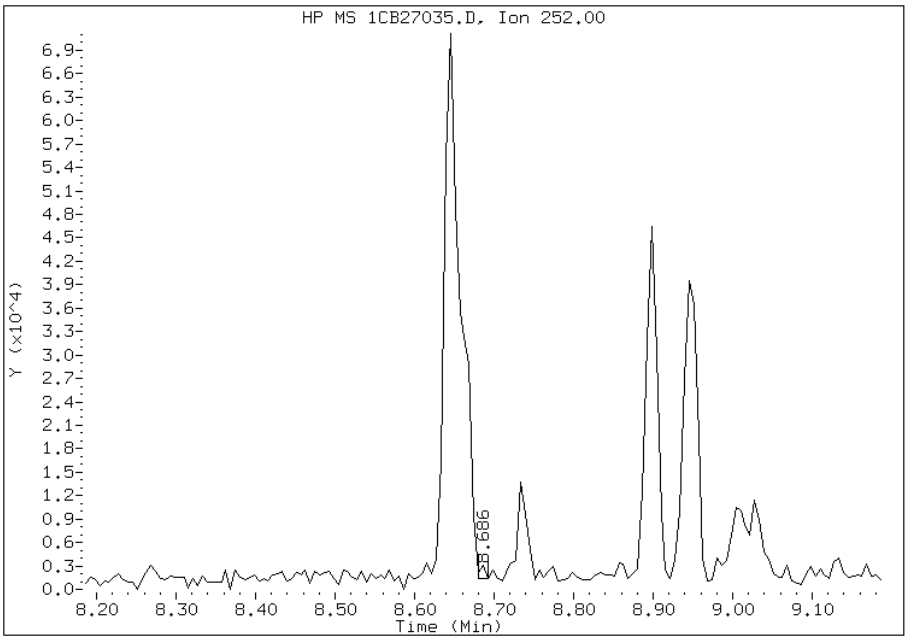
Processing Integration Results

RT: 8.69

Response: 904

Amount: 0

Conc: 1



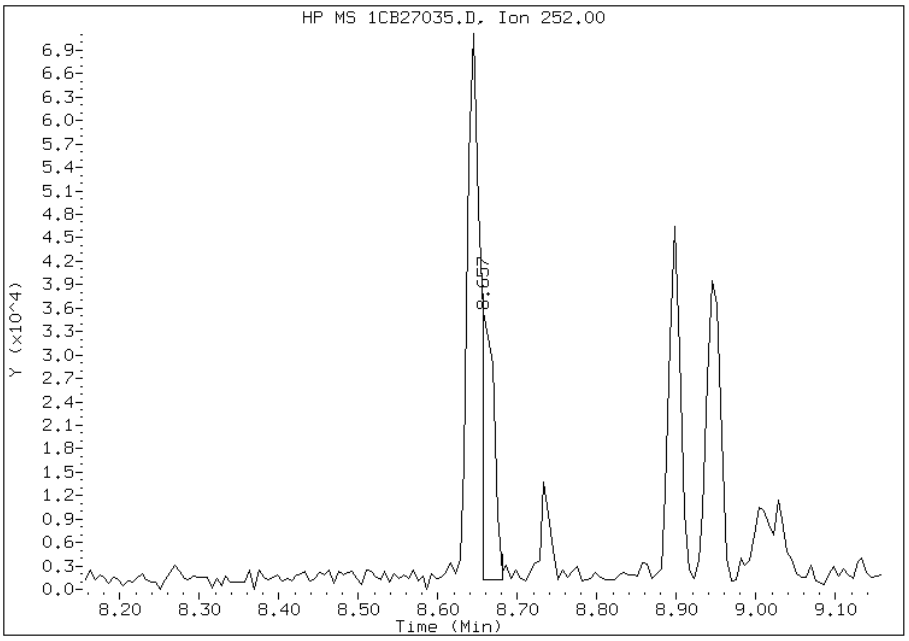
Manual Integration Results

RT: 8.66

Response: 35955

Amount: 1

Conc: 47



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB27035.D
Inj. Date and Time: 27-FEB-2013 22:22
Instrument ID: BSMC5973.i
Client ID: FM0161SSSS-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/01/2013

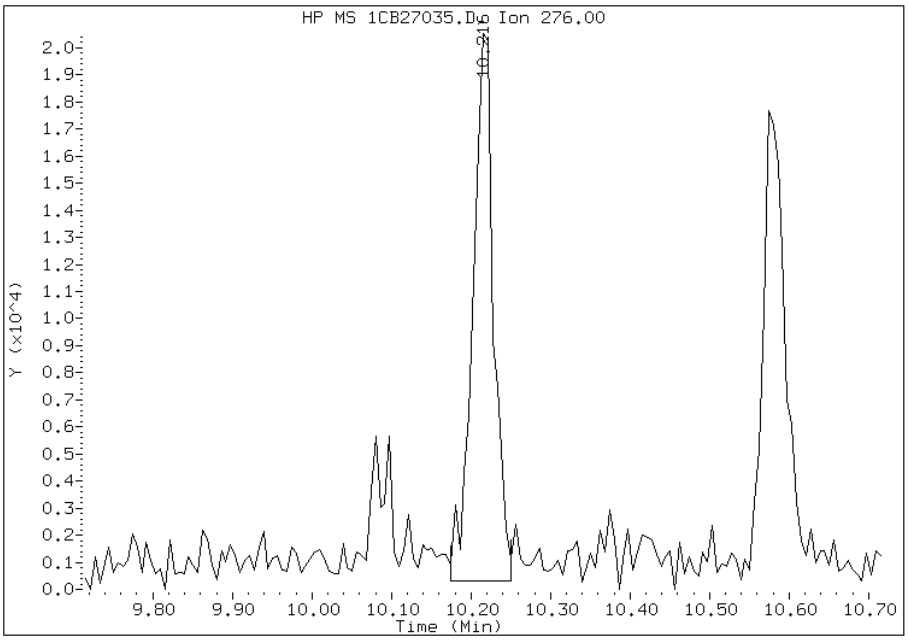
Processing Integration Results

RT: 10.22

Response: 37023

Amount: 1

Conc: 55



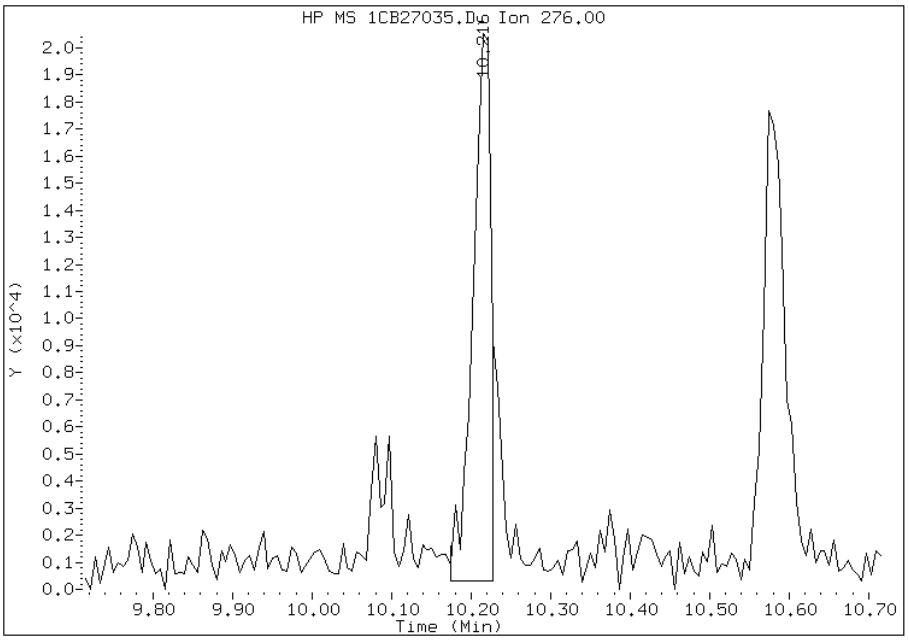
Manual Integration Results

RT: 10.22

Response: 32083

Amount: 1

Conc: 47



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:47
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87655-3

SDG No.: 68087655-3

Client Sample ID: FM0161TTTT-CS | Lab Sample ID: 680-87655-52

Matrix: Solid | Lab File ID: 1CB27036.D

Analysis Method: 8270C LL | Date Collected: 02/19/2013 14:07

Extract. Method: 3546 | Date Extracted: 02/25/2013 14:06

Sample wt/vol: 15.46(g) | Date Analyzed: 02/27/2013 22:40

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

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

% Moisture: 26.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134903 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	53	U	53	6.6
120-12-7	Anthracene	12		11	5.6
56-55-3	Benzo[a]anthracene	56		11	5.2
50-32-8	Benzo[a]pyrene	48		14	6.9
205-99-2	Benzo[b]fluoranthene	99		16	8.1
191-24-2	Benzo[g,h,i]perylene	39		26	5.8
207-08-9	Benzo[k]fluoranthene	25		11	4.8
218-01-9	Chrysene	87		12	6.0
53-70-3	Dibenz(a,h)anthracene	14	J	26	5.4
206-44-0	Fluoranthene	84		26	5.3
86-73-7	Fluorene	7.7	J	26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	30		26	9.4
90-12-0	1-Methylnaphthalene	44	J	53	5.8
91-57-6	2-Methylnaphthalene	41	J	53	9.4
91-20-3	Naphthalene	53		53	5.8
85-01-8	Phenanthrene	78		11	5.2
129-00-0	Pyrene	85		26	4.9

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\BSMC5973.i\1C022713.b\1CB27036.D
Lab Smp Id: 680-87655-A-52-A Client Smp ID: FM0161TTTT-CS
Inj Date : 27-FEB-2013 22:40
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87655-a-52-a
Misc Info : 680-87655-A-52-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\a-bFASTPAHi-m.m
Meth Date : 27-Feb-2013 16:31 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 34
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

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	15.460	Weight Extracted
M	26.735	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.792	3.792	(1.000)	2060246	40.0000	
* 6 Acenaphthene-d10	164	4.886	4.880	(1.000)	1618729	40.0000	
* 10 Phenanthrene-d10	188	5.839	5.839	(1.000)	2934941	40.0000	
$ 14 o-Terphenyl	230	6.092	6.092	(1.043)	251530	5.67626	501.1348
* 18 Chrysene-d12	240	7.792	7.792	(1.000)	3011720	40.0000	
* 23 Perylene-d12	264	9.009	9.004	(1.000)	2883978	40.0000	
2 Naphthalene	128	3.810	3.804	(1.005)	32077	0.59805	52.7994
3 2-Methylnaphthalene	142	4.233	4.233	(1.116)	16808	0.46979	41.4760
4 1-Methylnaphthalene	142	4.298	4.298	(1.133)	16391	0.50303	44.4101
9 Fluorene	166	5.227	5.221	(1.070)	4452	0.08678	7.6616(Q)
11 Phenanthrene	178	5.857	5.851	(1.003)	74702	0.88024	77.7128
12 Anthracene	178	5.886	5.886	(1.008)	10976	0.13224	11.6753
13 Carbazole	167	5.998	5.992	(1.027)	9490	0.12863	11.3559
15 Fluoranthene	202	6.698	6.698	(1.147)	88058	0.94749	83.6503
16 Pyrene	202	6.862	6.863	(0.881)	78331	0.96782	85.4448

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Benzo(a)anthracene	228	7.780	7.780	(0.998)	54956	0.63223	55.8170
19 Chrysene	228	7.809	7.810	(1.002)	85730	0.98552	87.0079
20 Benzo(b)fluoranthene	252	8.645	8.645	(0.960)	84669	1.12339	99.1798(M)
21 Benzo(k)fluoranthene	252	8.668	8.668	(0.962)	21900	0.28325	25.0069(QMH)
22 Benzo(a)pyrene	252	8.945	8.945	(0.993)	39958	0.54581	48.1877
24 Indeno(1,2,3-cd)pyrene	276	10.215	10.215	(1.134)	23570	0.34225	30.2157(M)
25 Dibenzo(a,h)anthracene	278	10.233	10.233	(1.136)	10823	0.16067	14.1847(M)
26 Benzo(g,h,i)perylene	276	10.580	10.580	(1.174)	31450	0.43655	38.5414(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: 1CB27036.D

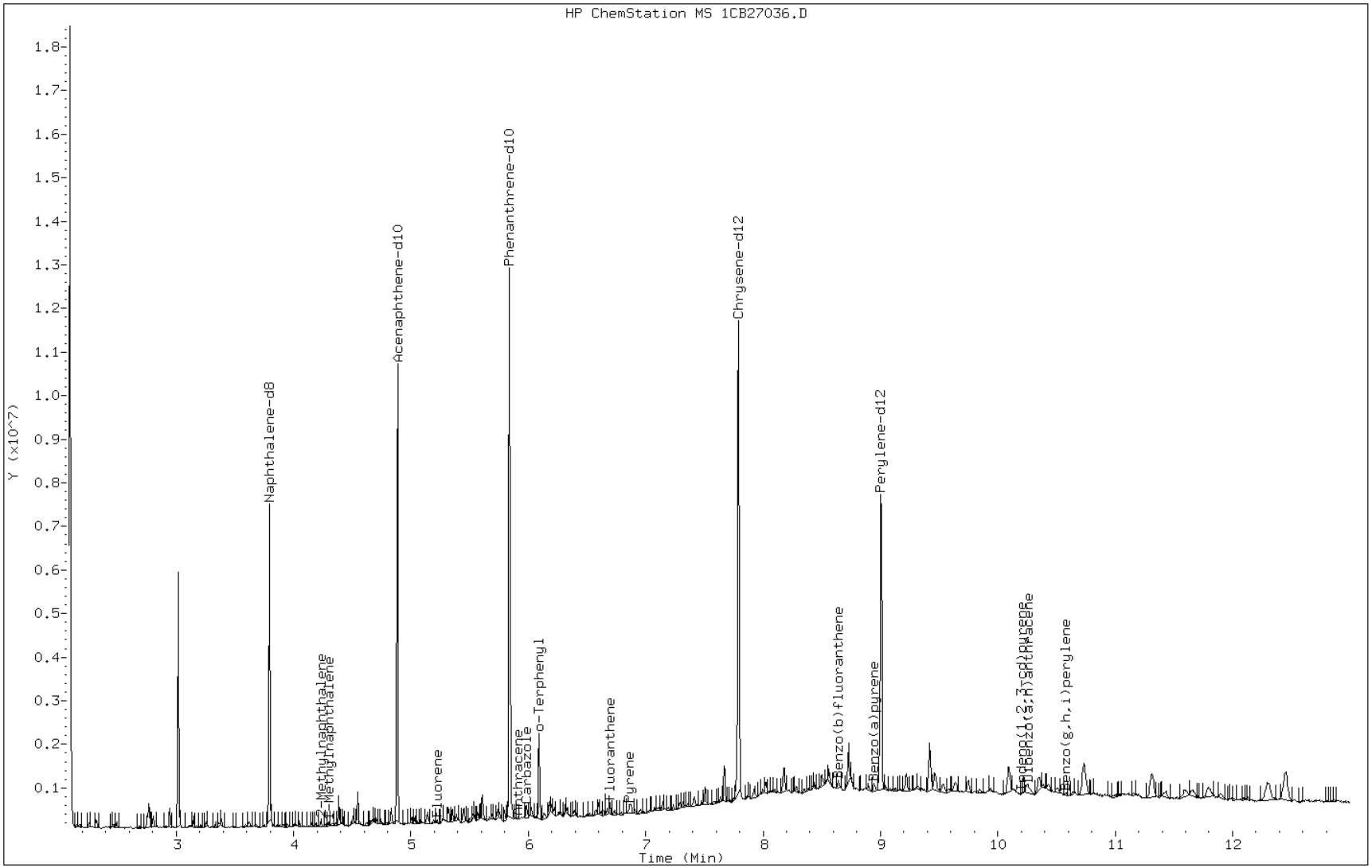
Date: 27-FEB-2013 22:40

Client ID: FM0161TTTT-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-52-a

Operator: SCC



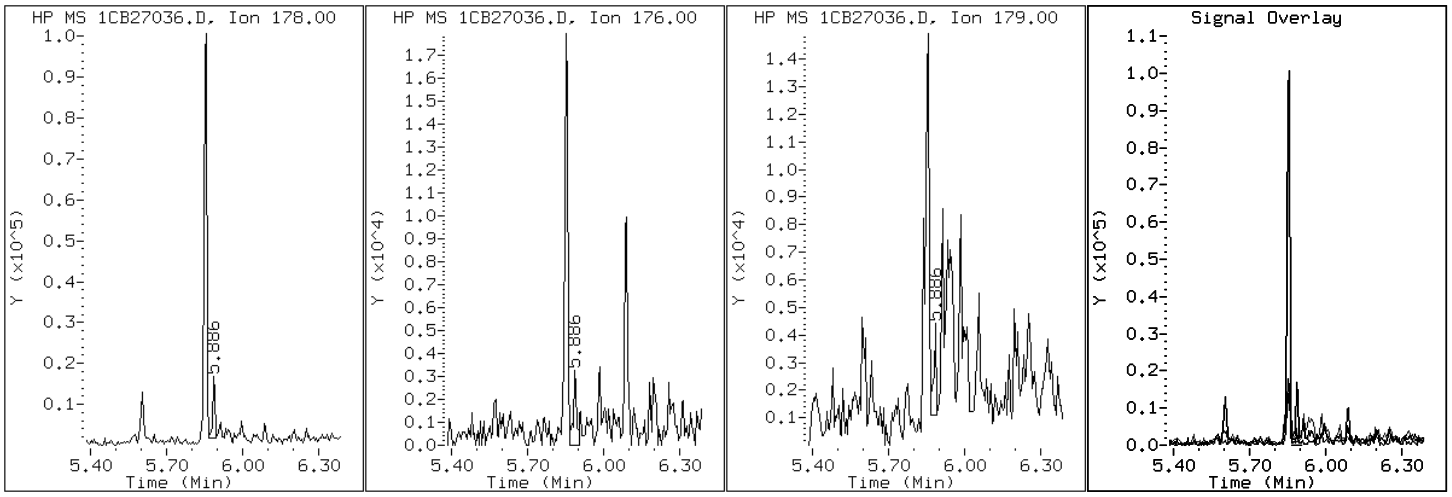
Data File: 1CB27036.D

Date: 27-FEB-2013 22:40

Client ID: FM0161TTTT-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-52-a Operator: SCC

12 Anthracene



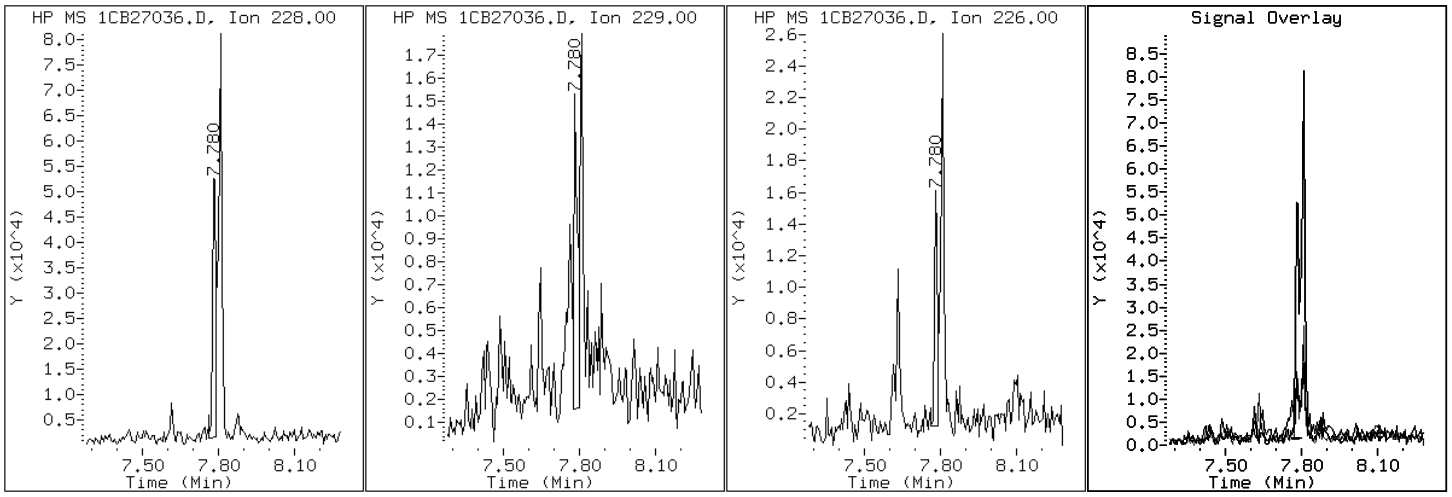
Data File: 1CB27036.D

Date: 27-FEB-2013 22:40

Client ID: FM0161TTTT-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-52-a Operator: SCC

17 Benzo(a)anthracene



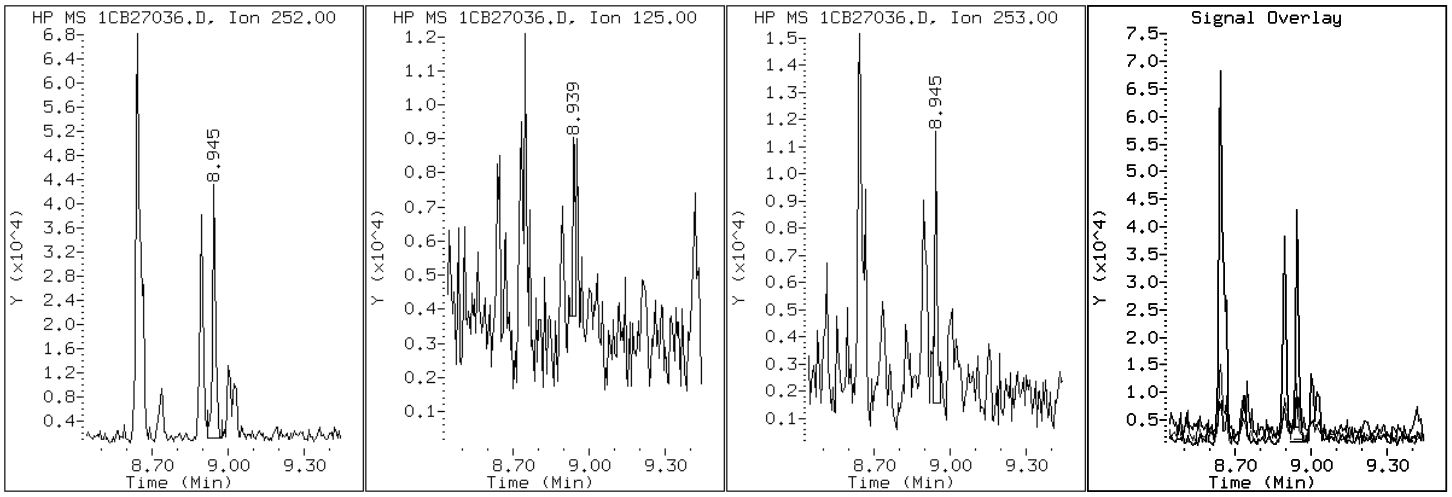
Data File: 1CB27036.D

Date: 27-FEB-2013 22:40

Client ID: FM0161TTTT-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-52-a Operator: SCC

22 Benzo(a)pyrene



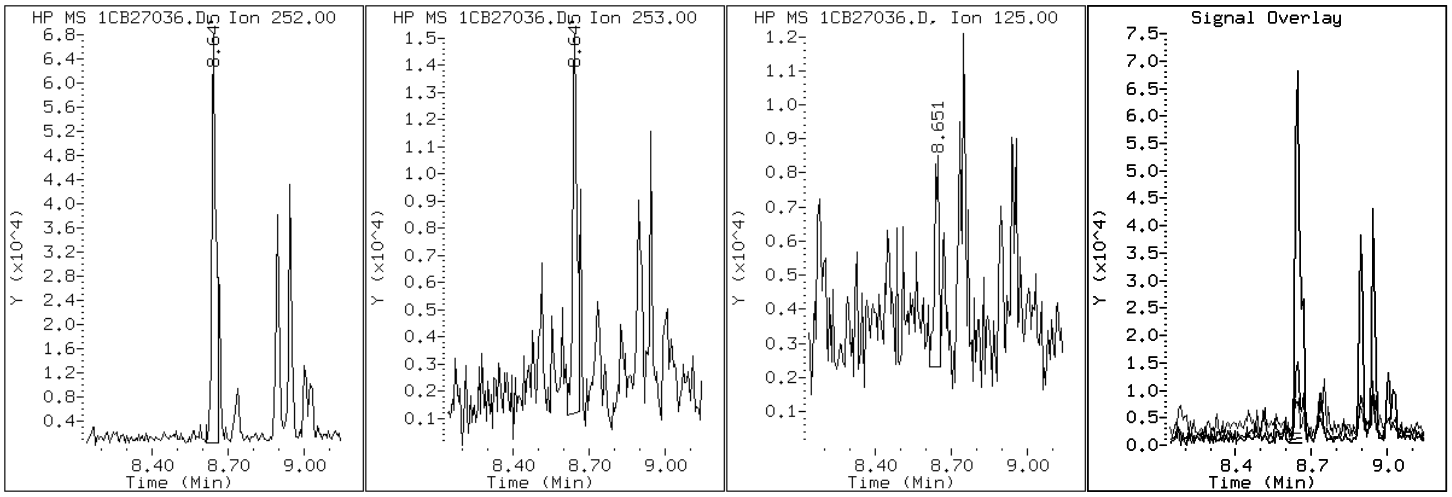
Data File: 1CB27036.D

Date: 27-FEB-2013 22:40

Client ID: FM0161TTTT-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-52-a Operator: SCC

20 Benzo(b)fluoranthene



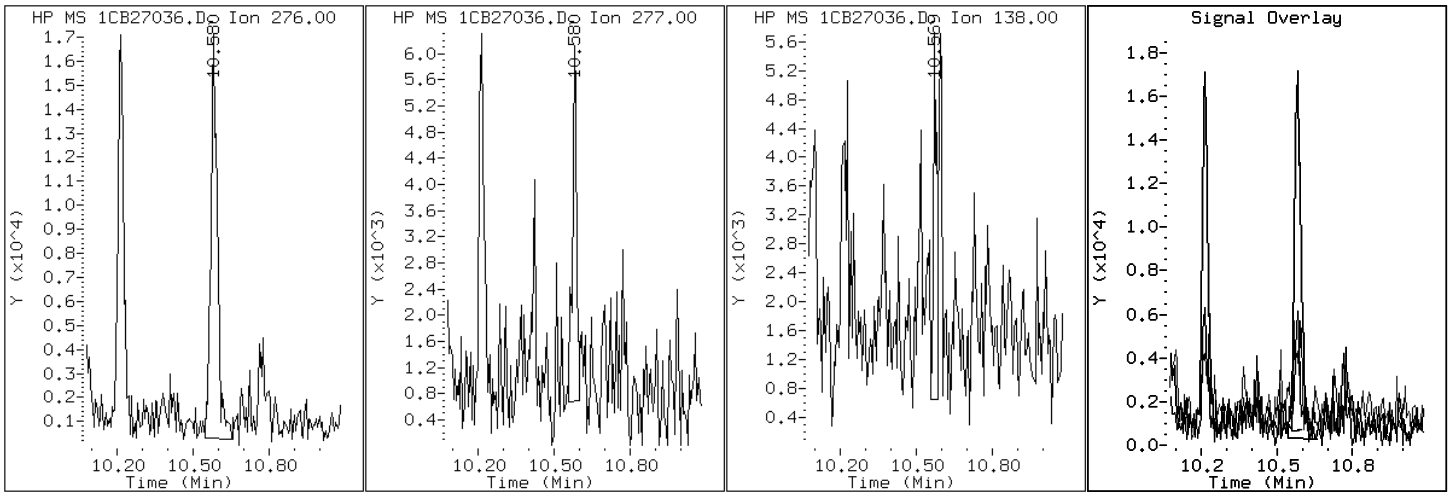
Data File: 1CB27036.D

Date: 27-FEB-2013 22:40

Client ID: FM0161TTTT-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-52-a Operator: SCC

26 Benzo(g,h,i)perylene



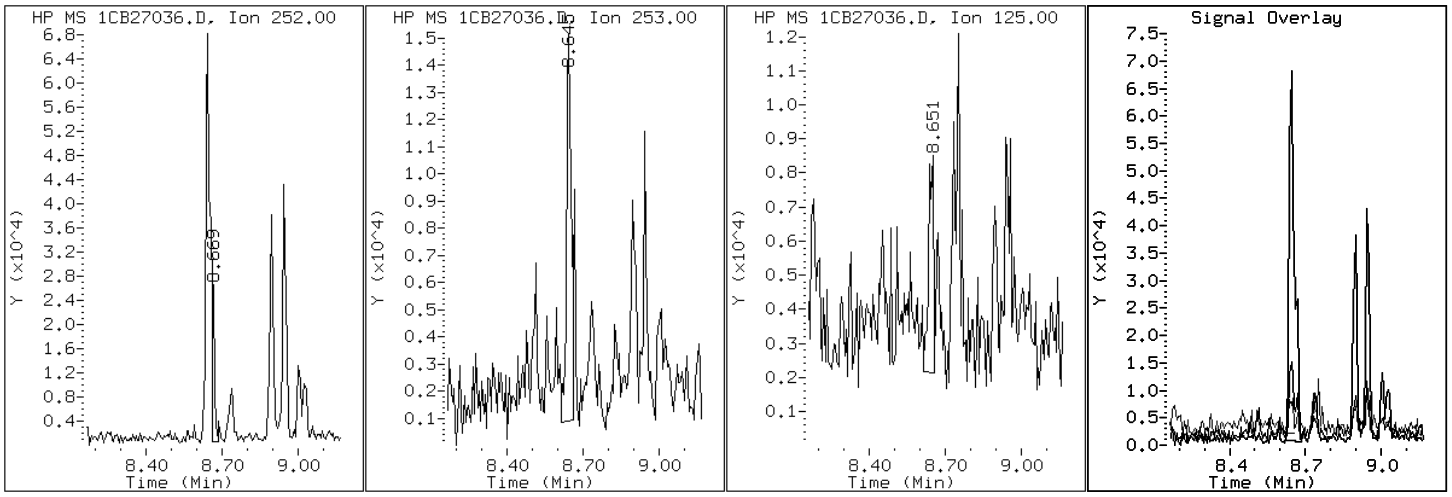
Data File: 1CB27036.D

Date: 27-FEB-2013 22:40

Client ID: FM0161TTTT-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-52-a Operator: SCC

21 Benzo(k)fluoranthene



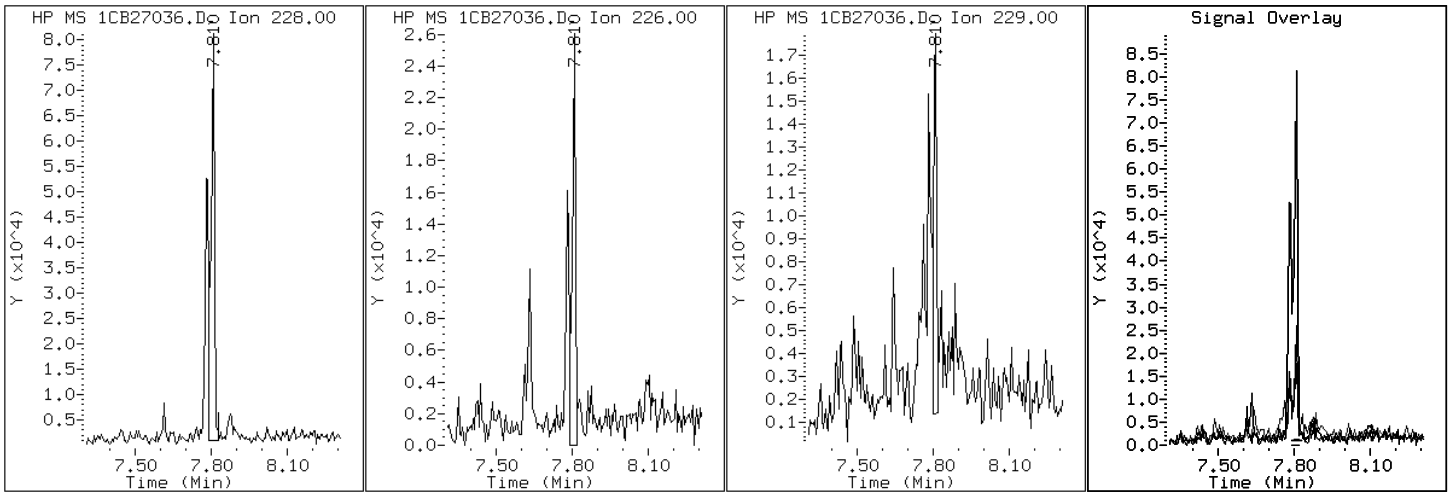
Data File: 1CB27036.D

Date: 27-FEB-2013 22:40

Client ID: FM0161TTTT-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-52-a Operator: SCC

19 Chrysene



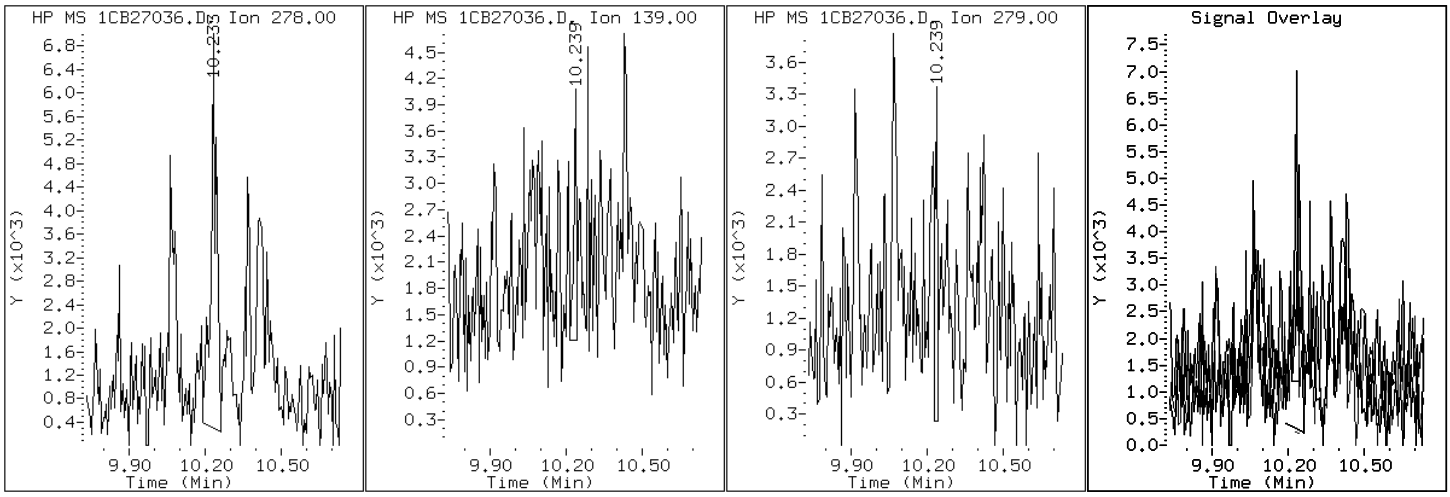
Data File: 1CB27036.D

Date: 27-FEB-2013 22:40

Client ID: FM0161TTTT-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-52-a Operator: SCC

25 Dibenzo(a,h)anthracene



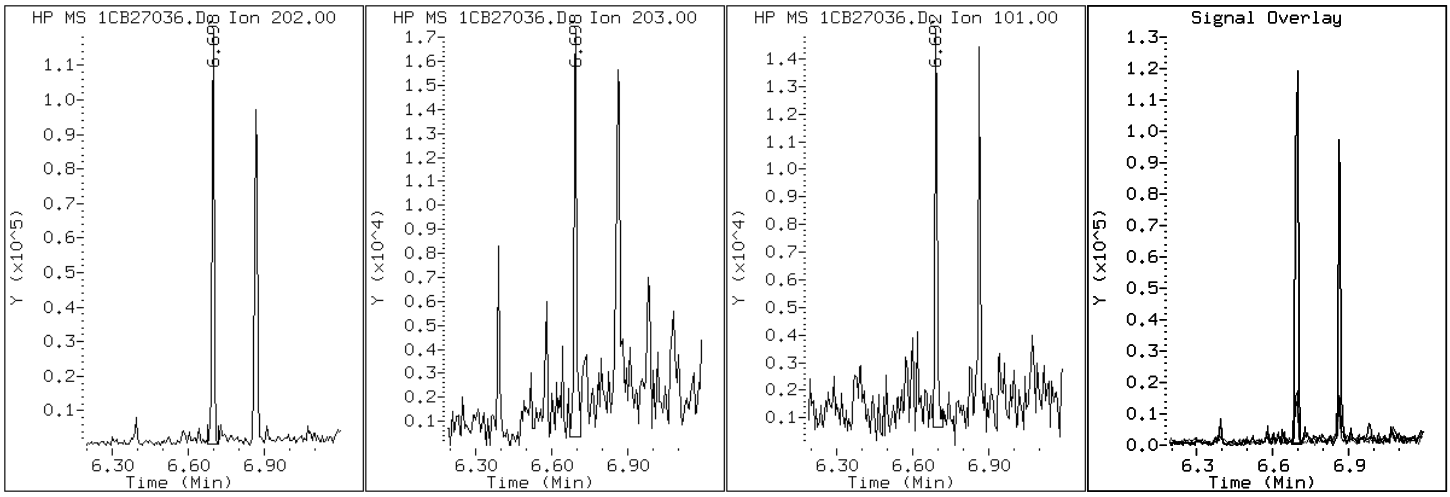
Data File: 1CB27036.D

Date: 27-FEB-2013 22:40

Client ID: FM0161TTTT-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-52-a Operator: SCC

15 Fluoranthene



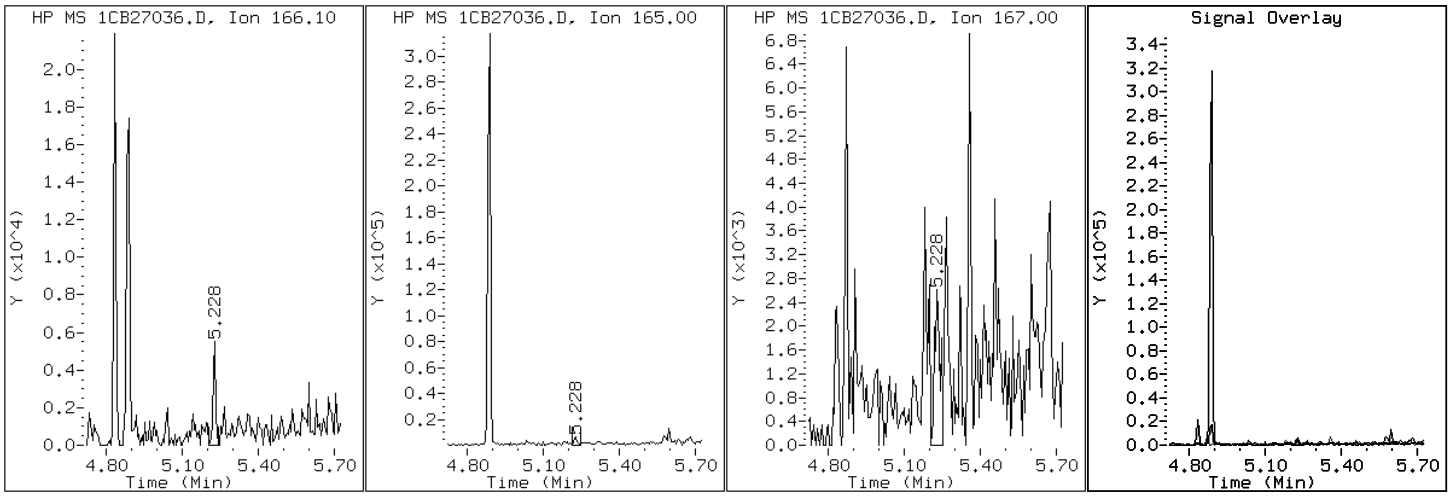
Data File: 1CB27036.D

Date: 27-FEB-2013 22:40

Client ID: FM0161TTTT-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-52-a Operator: SCC

9 Fluorene



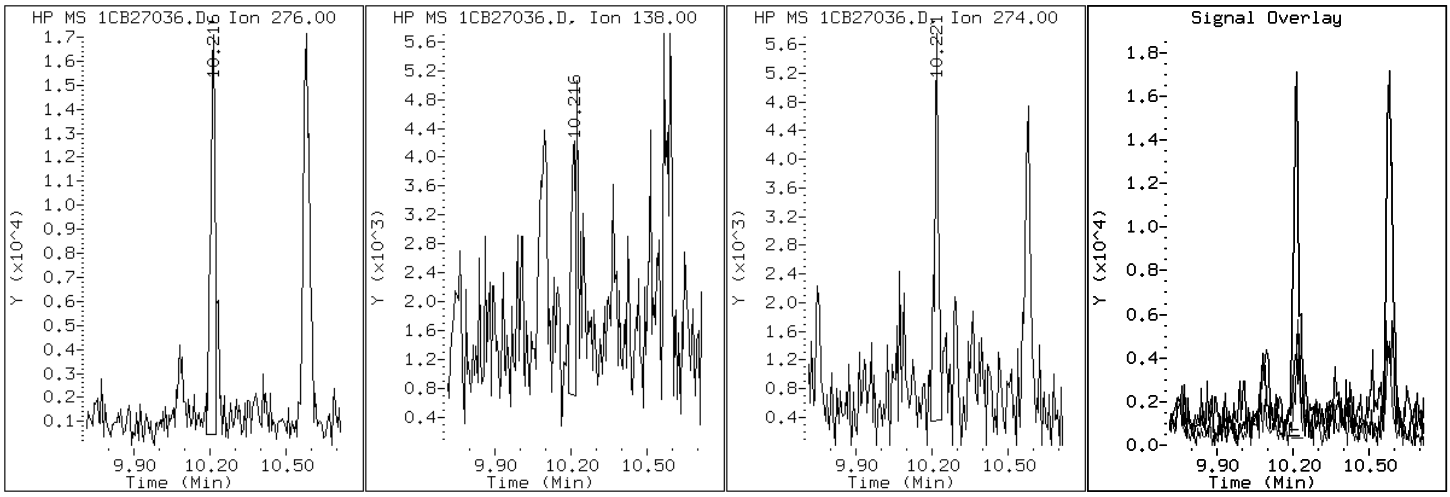
Data File: 1CB27036.D

Date: 27-FEB-2013 22:40

Client ID: FM0161TTTT-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-52-a Operator: SCC

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



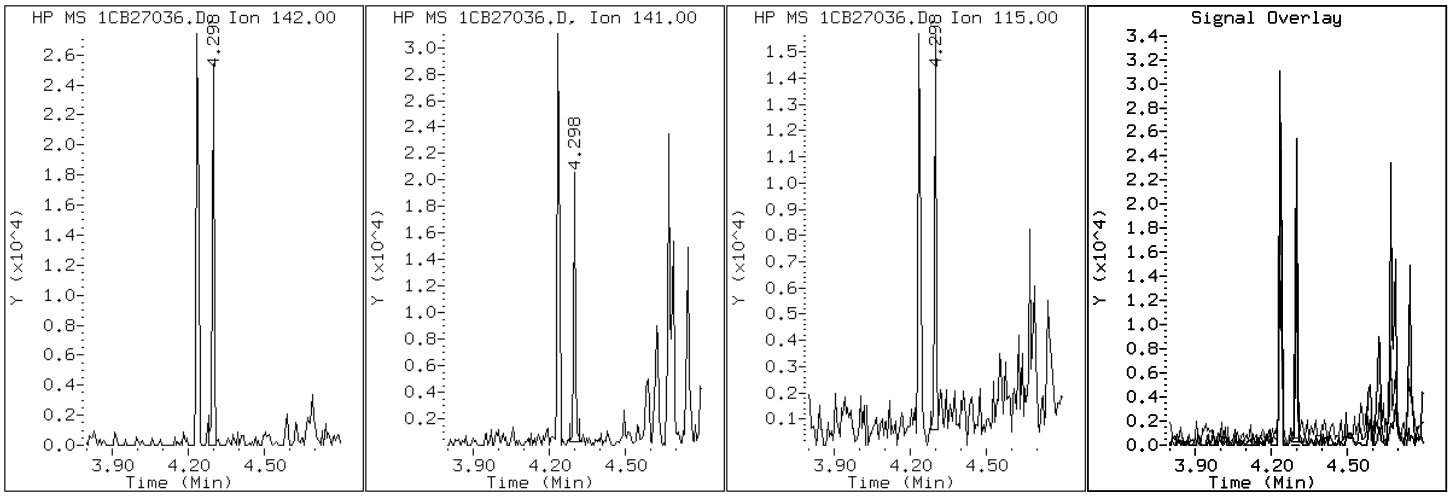
Data File: 1CB27036.D

Date: 27-FEB-2013 22:40

Client ID: FM0161TTTT-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-52-a Operator: SCC

4 1-Methylnaphthalene



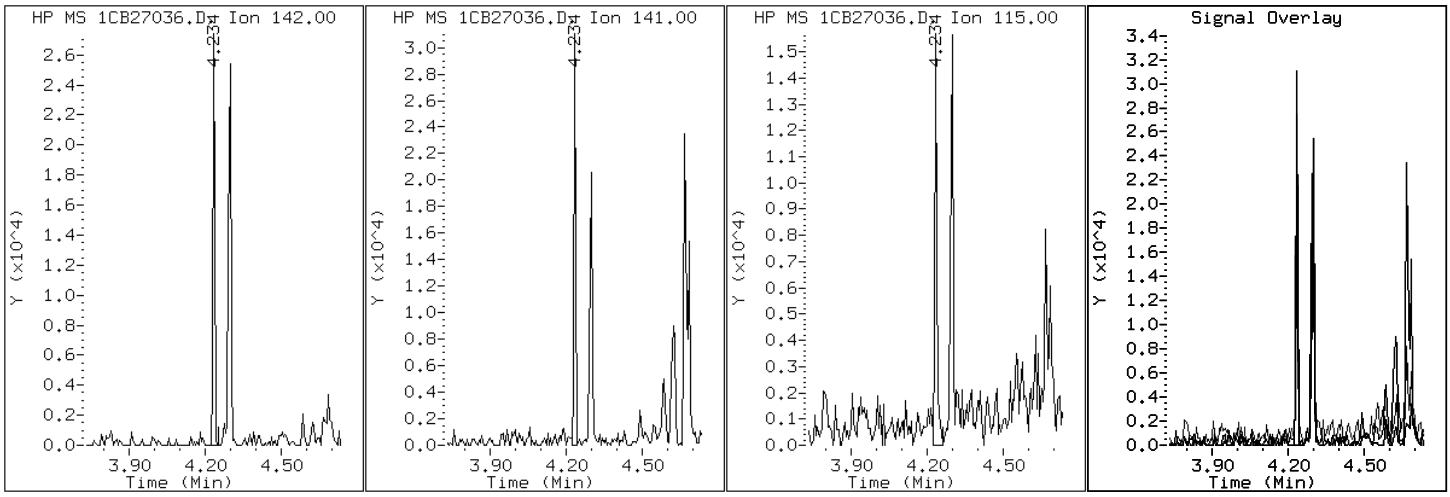
Data File: 1CB27036.D

Date: 27-FEB-2013 22:40

Client ID: FM0161TTTT-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-52-a Operator: SCC

3 2-Methylnaphthalene



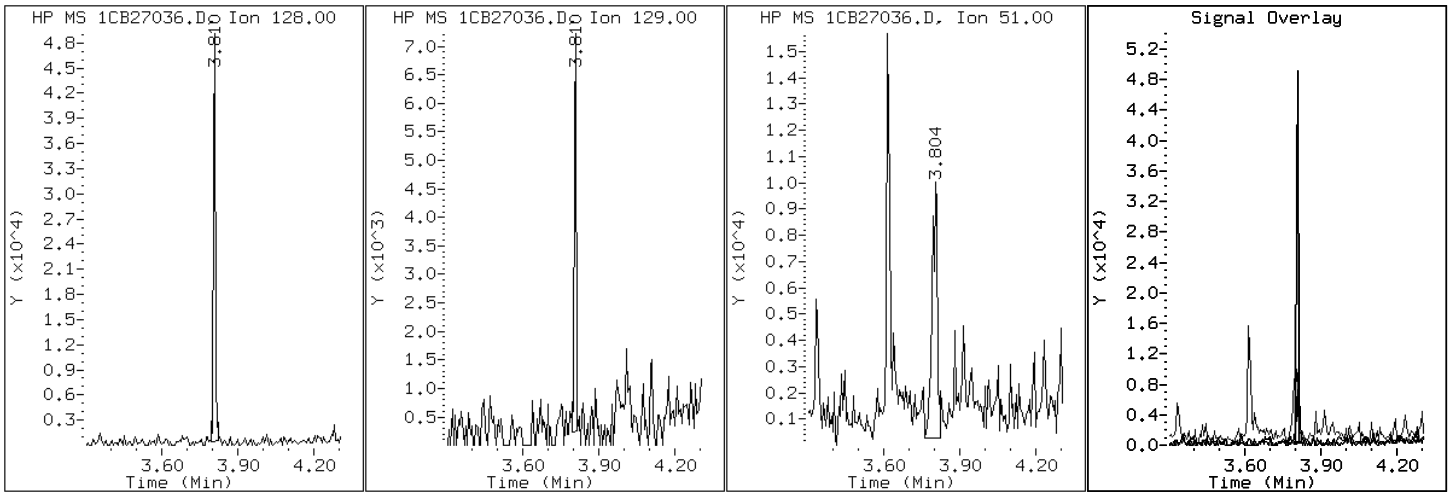
Data File: 1CB27036.D

Date: 27-FEB-2013 22:40

Client ID: FM0161TTTT-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-52-a Operator: SCC

2 Naphthalene



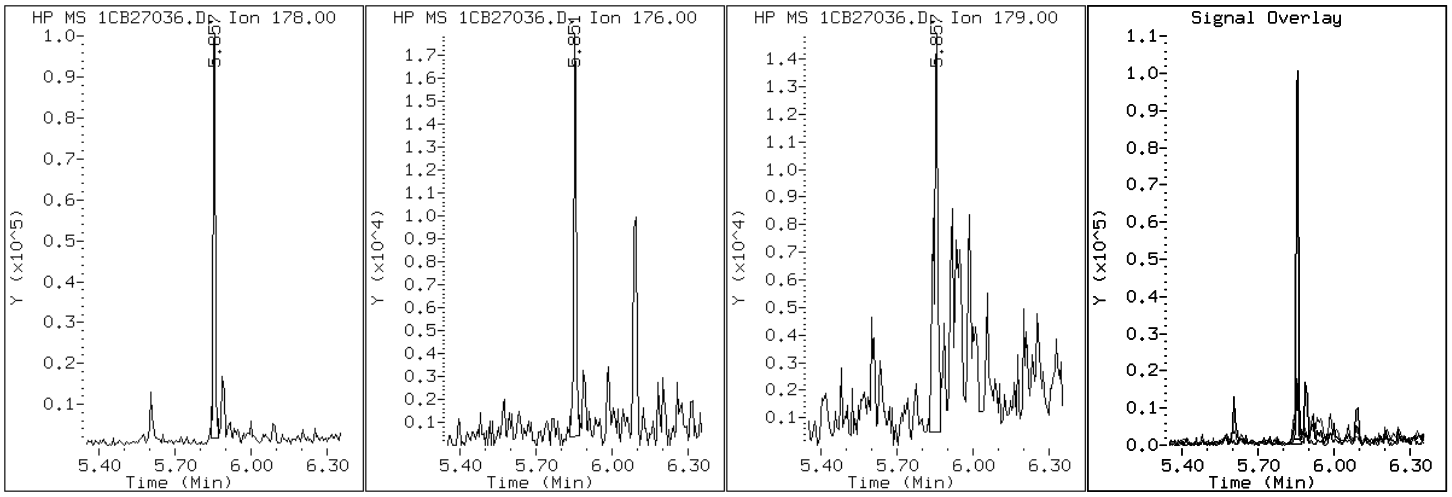
Data File: 1CB27036.D

Date: 27-FEB-2013 22:40

Client ID: FM0161TTTT-CS Instrument: BSMC5973.i

Sample Info: 680-87655-a-52-a Operator: SCC

11 Phenanthrene



Data File: 1CB27036.D

Date: 27-FEB-2013 22:40

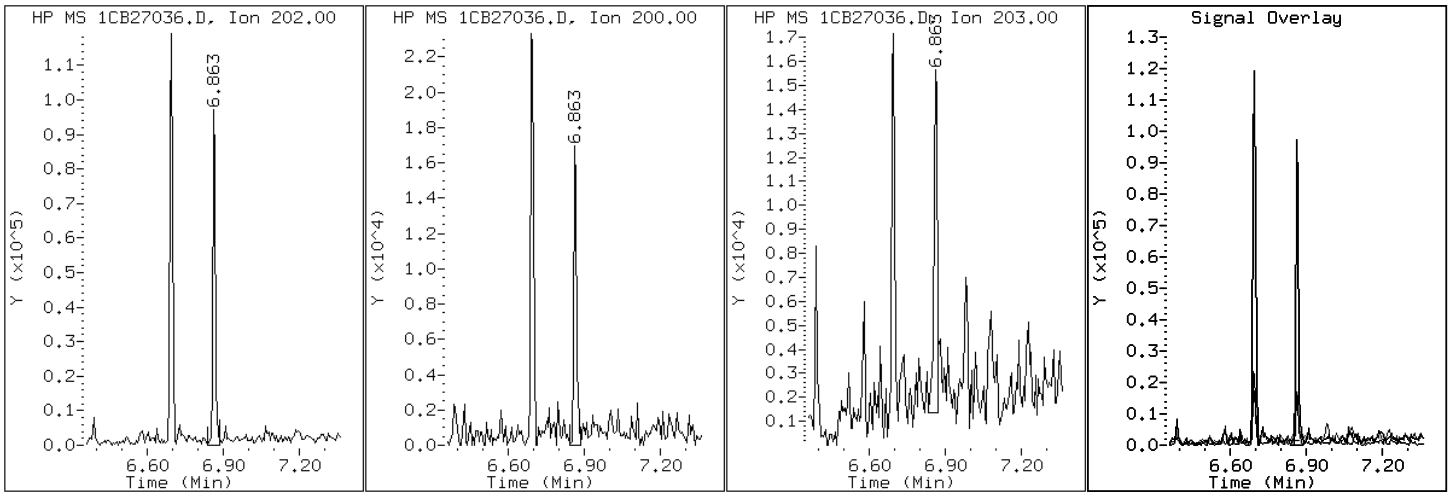
Client ID: FM0161TTTT-CS

Instrument: BSMC5973.i

Sample Info: 680-87655-a-52-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB27036.D
Inj. Date and Time: 27-FEB-2013 22:40
Instrument ID: BSMC5973.i
Client ID: FM0161TTTT-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/01/2013

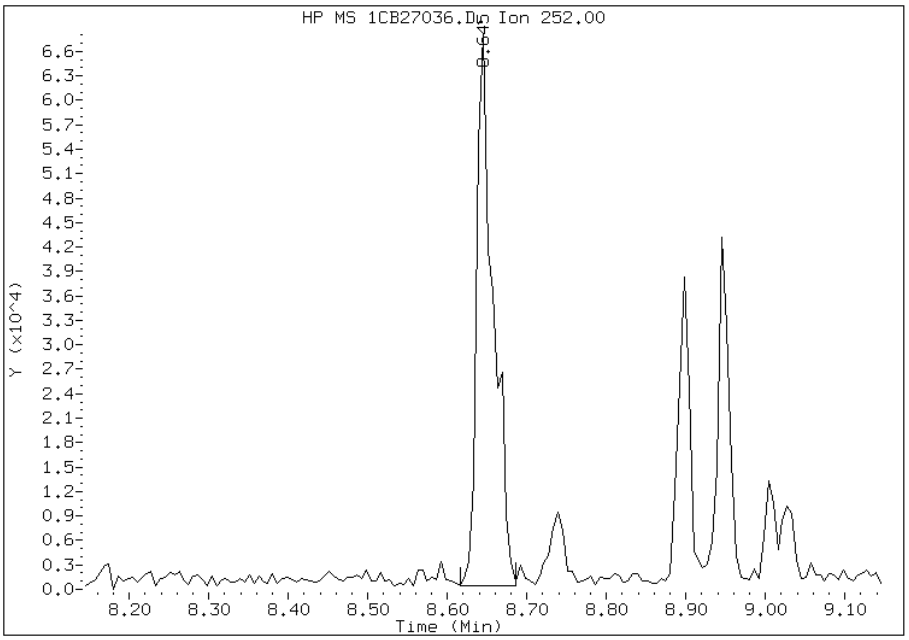
Processing Integration Results

RT: 8.65

Response: 98147

Amount: 1

Conc: 115



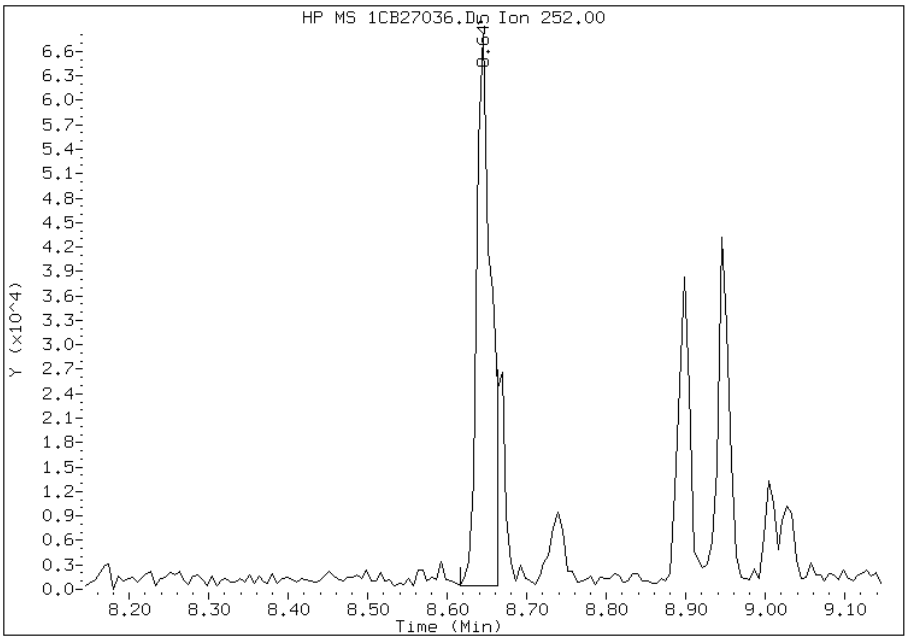
Manual Integration Results

RT: 8.65

Response: 84669

Amount: 1

Conc: 99



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:48
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB27036.D
Inj. Date and Time: 27-FEB-2013 22:40
Instrument ID: BSMC5973.i
Client ID: FM0161TTTT-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/01/2013

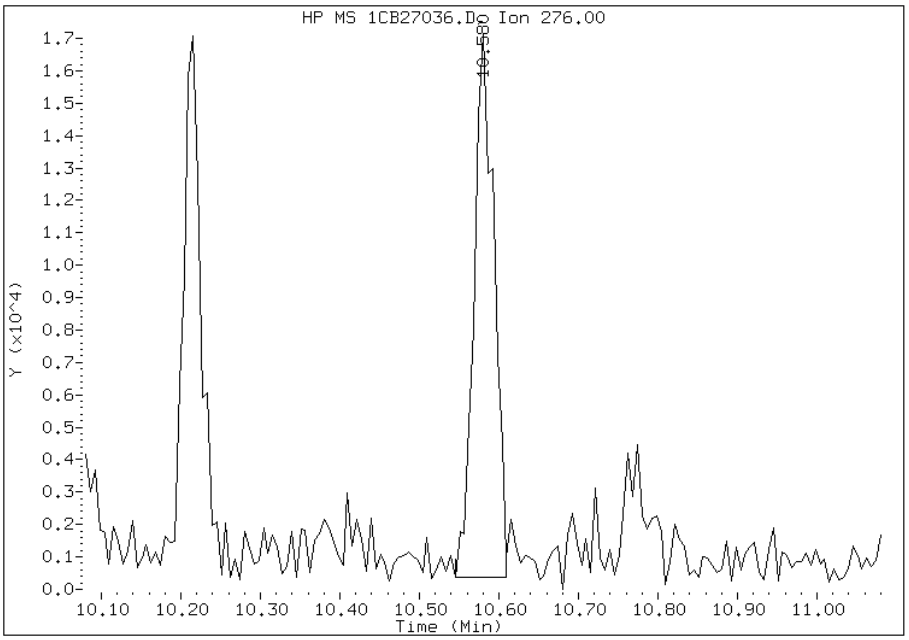
Processing Integration Results

RT: 10.58

Response: 29245

Amount: 0

Conc: 36



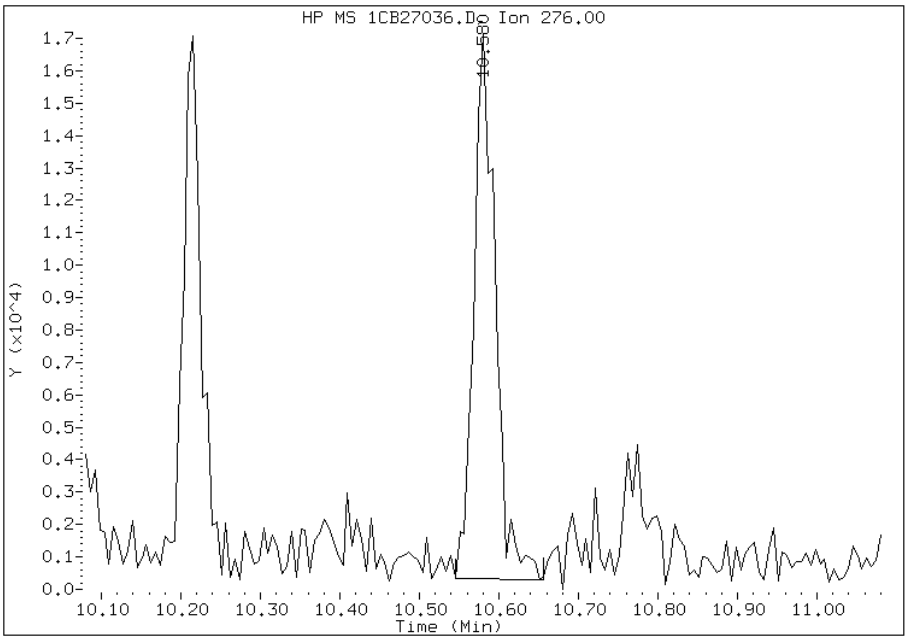
Manual Integration Results

RT: 10.58

Response: 31450

Amount: 0

Conc: 39



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:48
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB27036.D
Inj. Date and Time: 27-FEB-2013 22:40
Instrument ID: BSMC5973.i
Client ID: FM0161TTTT-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/01/2013

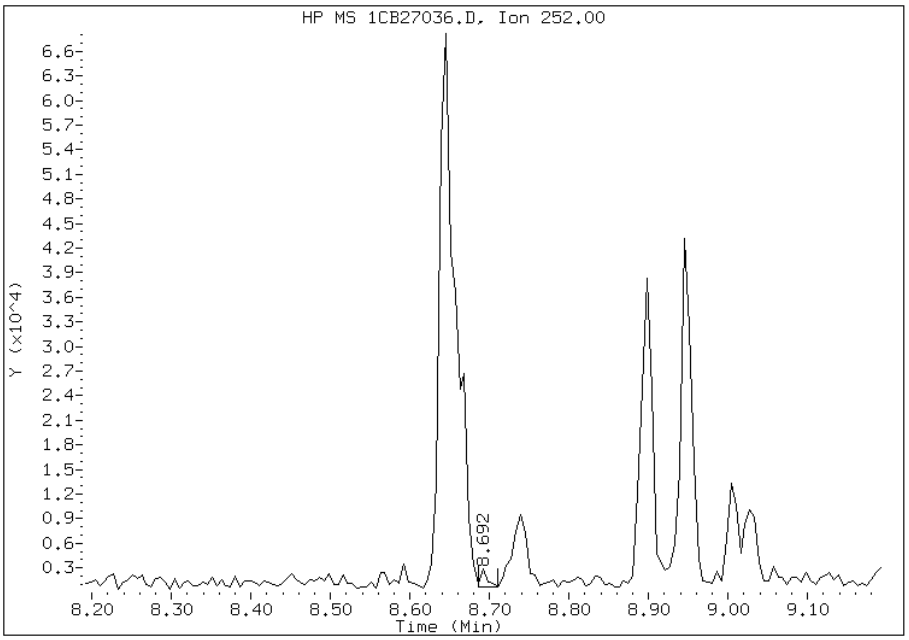
Processing Integration Results

RT: 8.69

Response: 1364

Amount: 0

Conc: 2



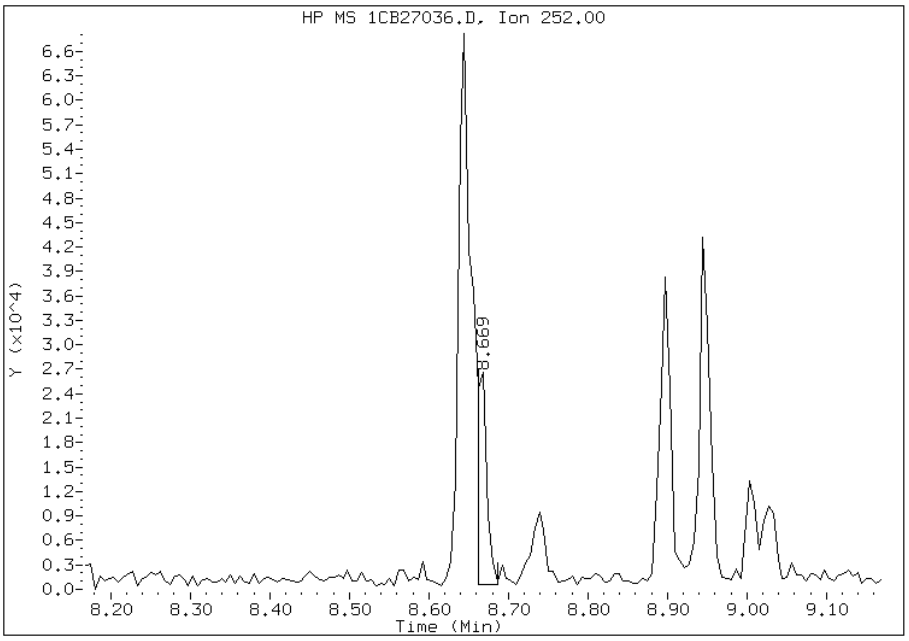
Manual Integration Results

RT: 8.67

Response: 21900

Amount: 0

Conc: 25



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:48
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB27036.D
Inj. Date and Time: 27-FEB-2013 22:40
Instrument ID: BSMC5973.i
Client ID: FM0161TTTT-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/01/2013

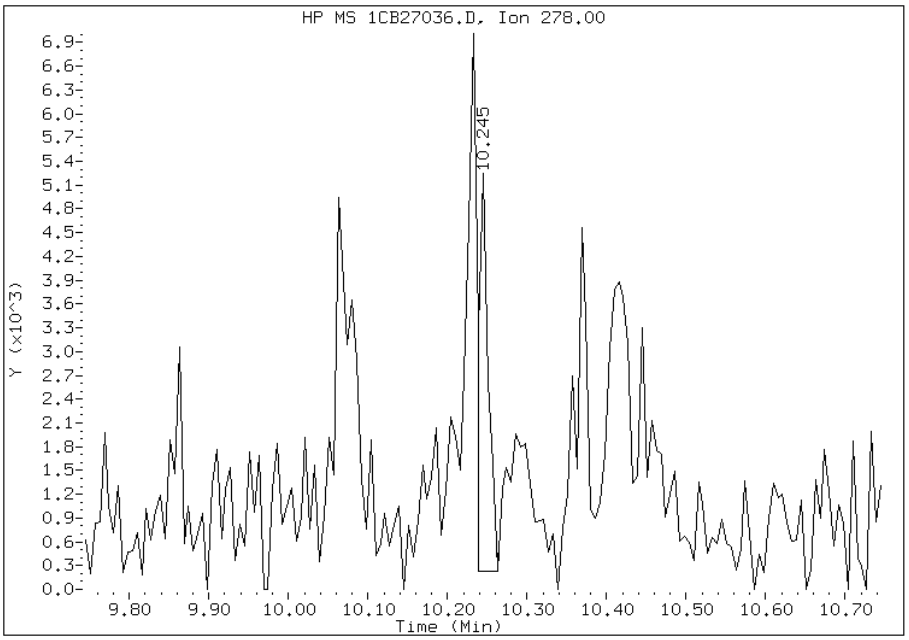
Processing Integration Results

RT: 10.24

Response: 4157

Amount: 0

Conc: 5



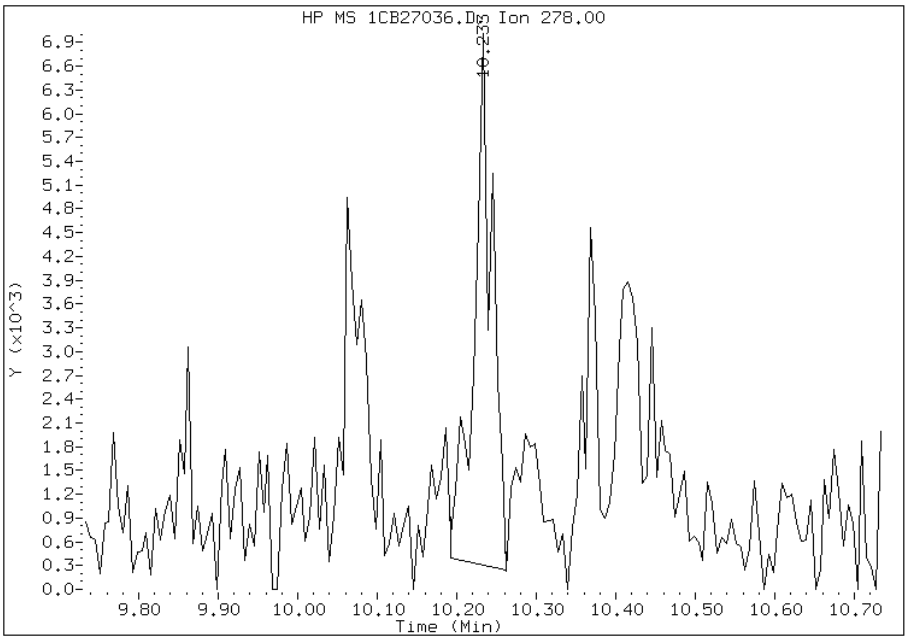
Manual Integration Results

RT: 10.23

Response: 10823

Amount: 0

Conc: 14



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:48
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB27036.D
Inj. Date and Time: 27-FEB-2013 22:40
Instrument ID: BSMC5973.i
Client ID: FM0161TTTT-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/01/2013

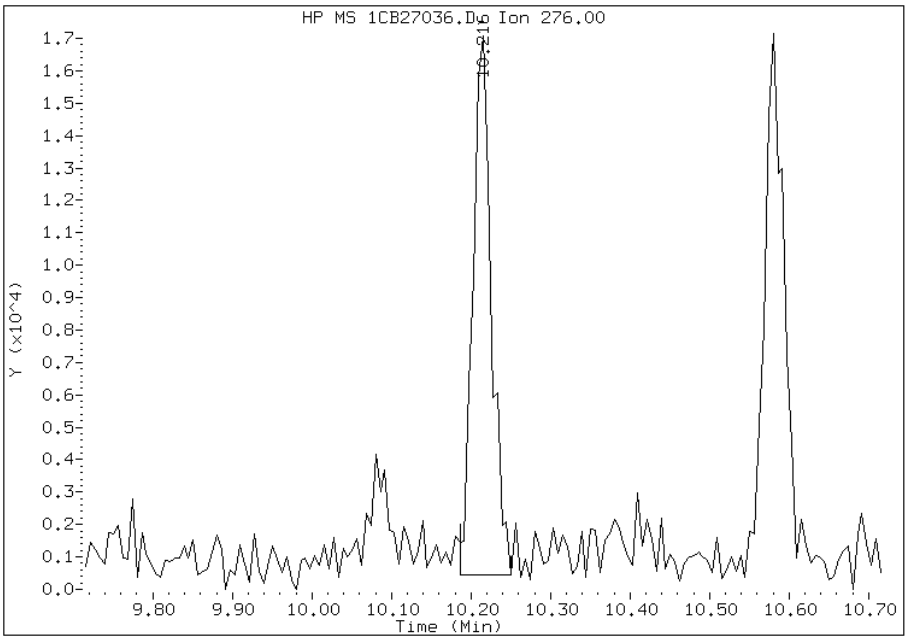
Processing Integration Results

RT: 10.22

Response: 26653

Amount: 0

Conc: 34



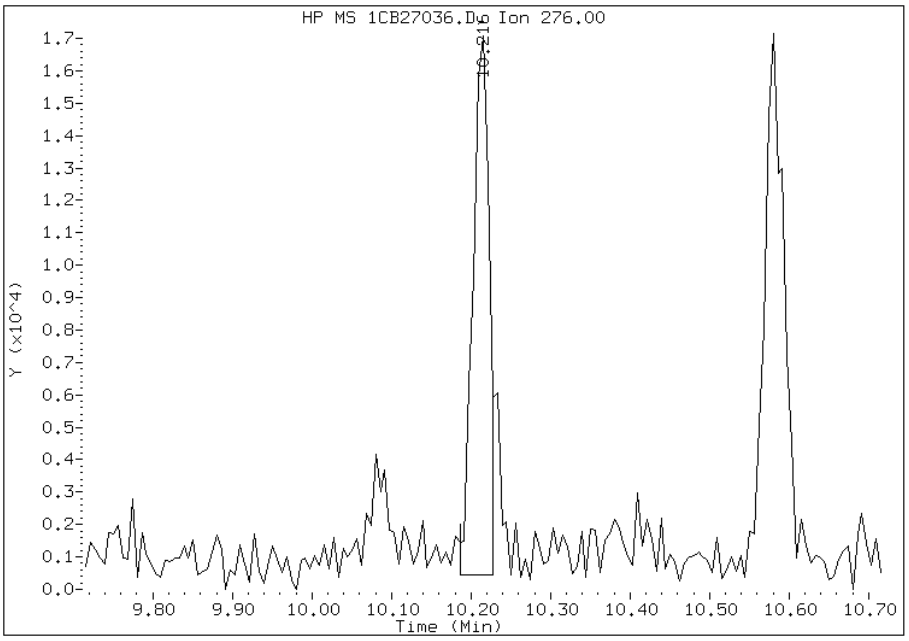
Manual Integration Results

RT: 10.22

Response: 23570

Amount: 0

Conc: 30



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:48
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87655-3

SDG No.: 68087655-3

Client Sample ID: FM0161AY-GS | Lab Sample ID: 680-87655-53

Matrix: Solid | Lab File ID: 1DB27015.D

Analysis Method: 8270C LL | Date Collected: 02/19/2013 13:11

Extract. Method: 3546 | Date Extracted: 02/25/2013 14:06

Sample wt/vol: 15.31(g) | Date Analyzed: 02/27/2013 17:05

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

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

% Moisture: 30.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134905 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	13	J	56	7.0
120-12-7	Anthracene	22		12	5.9
56-55-3	Benzo[a]anthracene	95		11	5.5
50-32-8	Benzo[a]pyrene	81		15	7.3
205-99-2	Benzo[b]fluoranthene	150		17	8.6
191-24-2	Benzo[g,h,i]perylene	66		28	6.2
207-08-9	Benzo[k]fluoranthene	51		11	5.1
218-01-9	Chrysene	130		13	6.3
53-70-3	Dibenz(a,h)anthracene	23	J	28	5.8
206-44-0	Fluoranthene	170		28	5.6
86-73-7	Fluorene	7.1	J	28	5.8
193-39-5	Indeno[1,2,3-cd]pyrene	59		28	10
90-12-0	1-Methylnaphthalene	43	J	56	6.2
91-57-6	2-Methylnaphthalene	52	J	56	10
91-20-3	Naphthalene	56		56	6.2
85-01-8	Phenanthrene	120		11	5.5
129-00-0	Pyrene	140		28	5.2

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

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022713.b\1DB27015.D
Lab Smp Id: 680-87655-A-53-A Client Smp ID: FM0161AY-GS
Inj Date : 27-FEB-2013 17:05
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87655-A-53-A
Misc Info : 680-87655-A-53-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022713.b\dFASTPAHi.m
Meth Date : 27-Feb-2013 14:11 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.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	15.310	Weight Extracted
M	30.260	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.172	6.174	(1.000)	2333395	40.0000	
* 6 Acenaphthene-d10	164	7.847	7.848	(1.000)	1375346	40.0000	
* 9 Phenanthrene-d10	188	9.110	9.111	(1.000)	2194237	40.0000	
$ 13 o-Terphenyl	230	9.416	9.417	(1.034)	185414	5.46433	510
* 17 Chrysene-d12	240	11.454	11.456	(1.000)	2103218	40.0000	
* 22 Perylene-d12	264	13.334	13.330	(1.000)	2139333	40.0000	
2 Naphthalene	128	6.196	6.197	(1.004)	37146	0.59510	56
3 2-Methylnaphthalene	142	6.895	6.896	(1.117)	22115	0.55618	52
4 1-Methylnaphthalene	142	6.989	6.990	(1.132)	17288	0.46430	43
5 Acenaphthylene	152	7.718	7.719	(0.984)	8124	0.13398	12
8 Fluorene	166	8.317	8.318	(1.060)	3273	0.07577	7.1
10 Phenanthrene	178	9.128	9.129	(1.002)	81138	1.30264	120
11 Anthracene	178	9.169	9.170	(1.006)	14895	0.23901	22
12 Carbazole	167	9.304	9.305	(1.021)	9167	0.16455	15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.109	10.116	(1.110)	120001	1.84613	170
15 Pyrene	202	10.297	10.304	(0.899)	96438	1.47821	140
16 Benzo(a)anthracene	228	11.437	11.438	(0.998)	58608	1.01783	95
18 Chrysene	228	11.478	11.479	(1.002)	81922	1.37807	130
19 Benzo(b)fluoranthene	252	12.770	12.778	(0.958)	85942	1.56071	150
20 Benzo(k)fluoranthene	252	12.806	12.819	(0.960)	31677	0.54941	51
21 Benzo(a)pyrene	252	13.229	13.236	(0.992)	47333	0.86862	81
23 Indeno(1,2,3-cd)pyrene	276	14.944	14.963	(1.121)	36476	0.62724	59(M)
24 Dibenzo(a,h)anthracene	278	14.980	14.999	(1.123)	13465	0.25072	23
25 Benzo(g,h,i)perylene	276	15.403	15.422	(1.155)	39097	0.70514	66

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DB27015.D

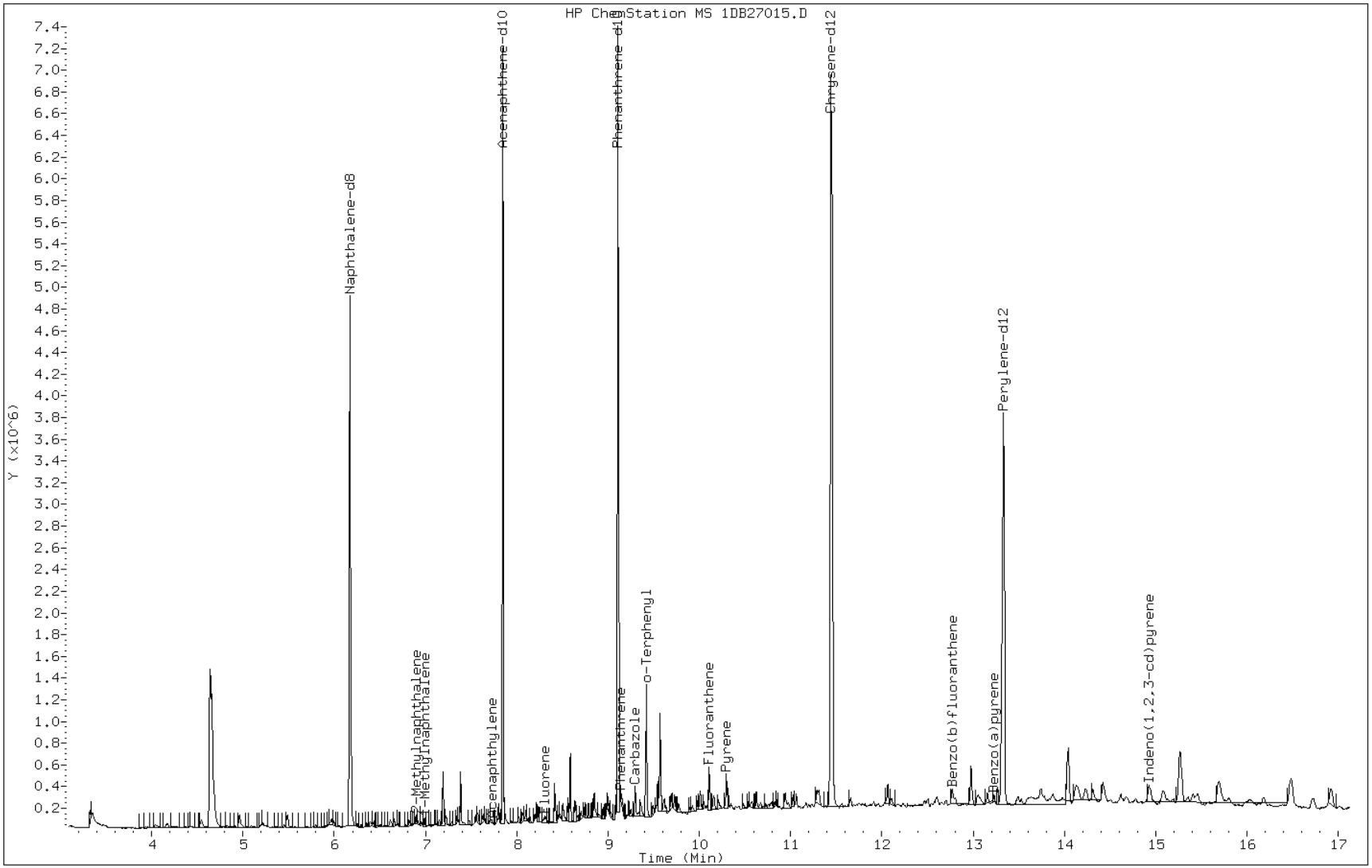
Date: 27-FEB-2013 17:05

Client ID: FM0161AY-GS

Instrument: BSMSD.i

Sample Info: 680-87655-A-53-A

Operator: SCC



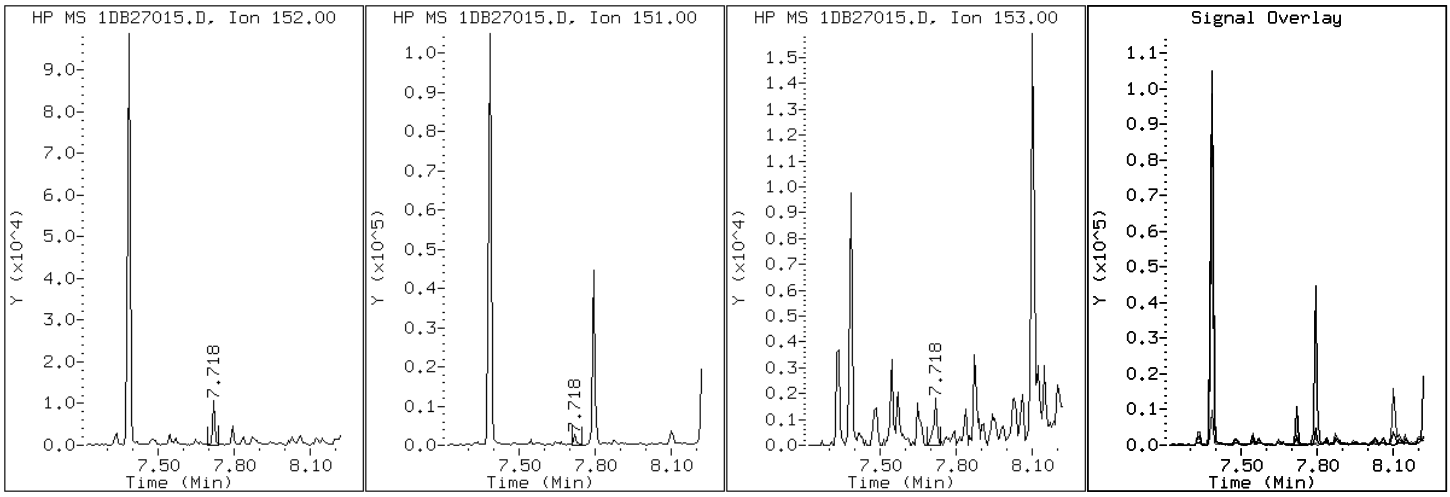
Data File: 1DB27015.D

Date: 27-FEB-2013 17:05

Client ID: FM0161AY-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-53-A Operator: SCC

5 Acenaphthylene



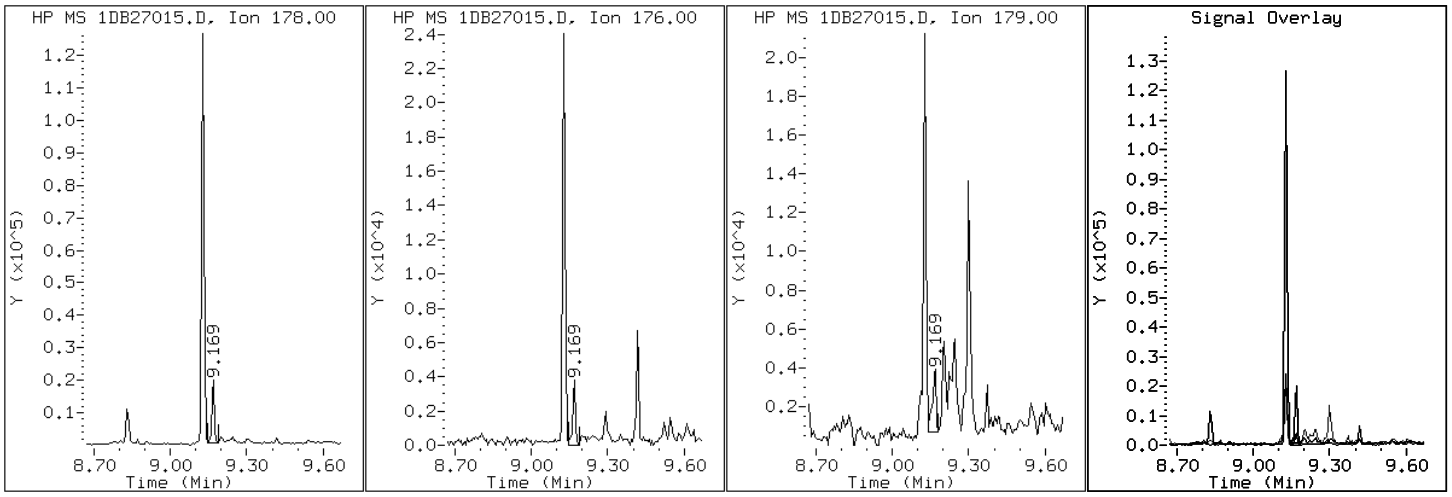
Data File: 1DB27015.D

Date: 27-FEB-2013 17:05

Client ID: FM0161AY-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-53-A Operator: SCC

11 Anthracene



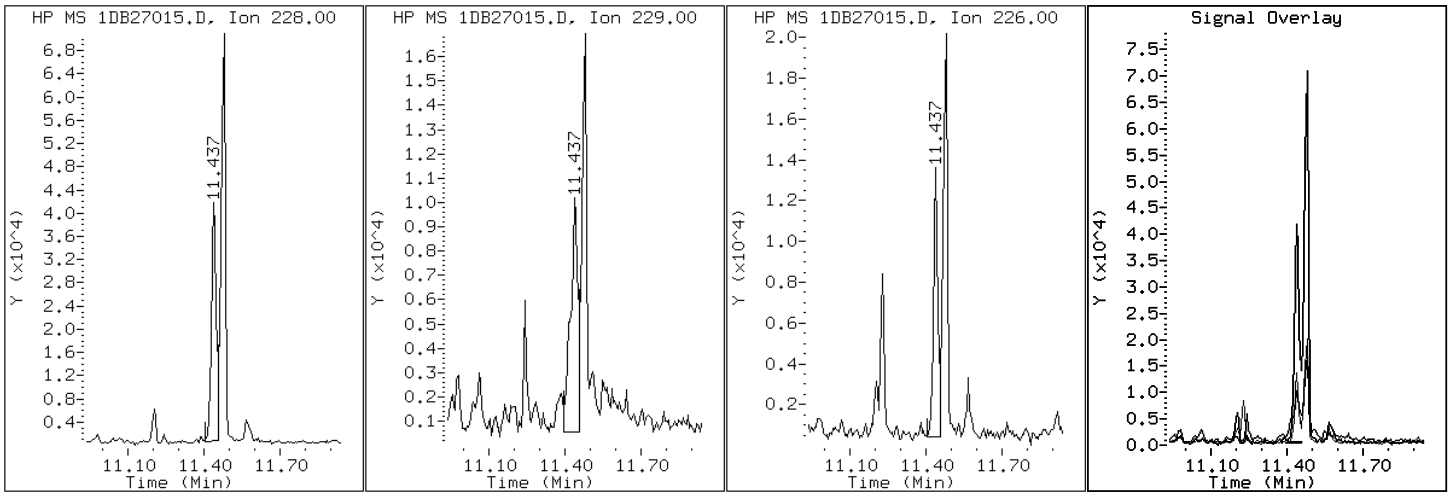
Data File: 1DB27015.D

Date: 27-FEB-2013 17:05

Client ID: FM0161AY-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-53-A Operator: SCC

16 Benzo(a)anthracene



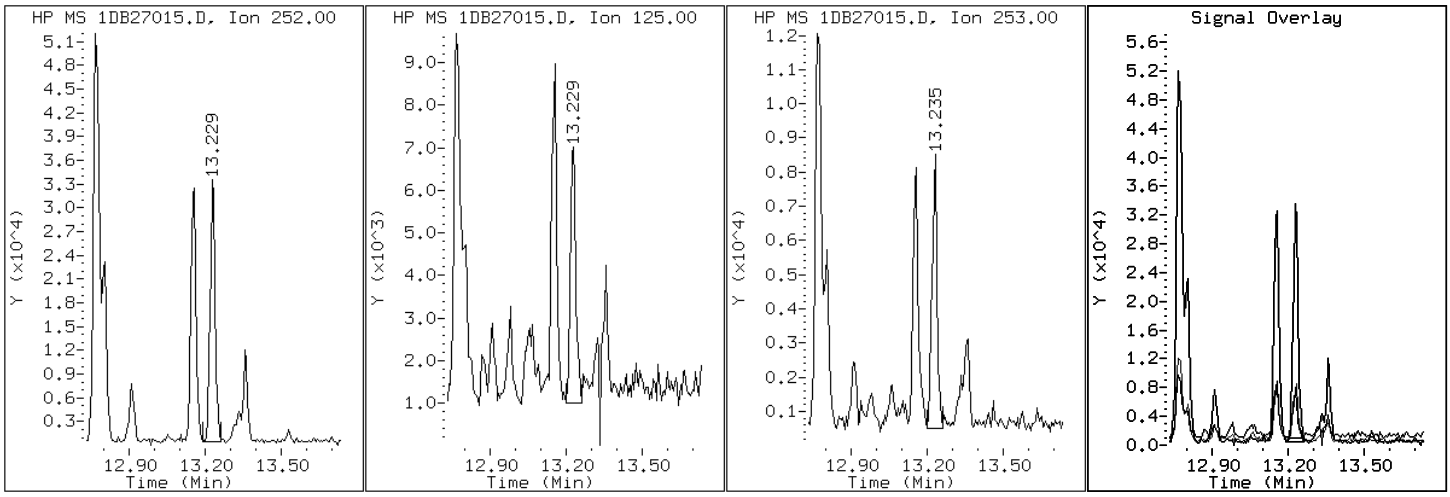
Data File: 1DB27015.D

Date: 27-FEB-2013 17:05

Client ID: FM0161AY-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-53-A Operator: SCC

21 Benzo(a)pyrene



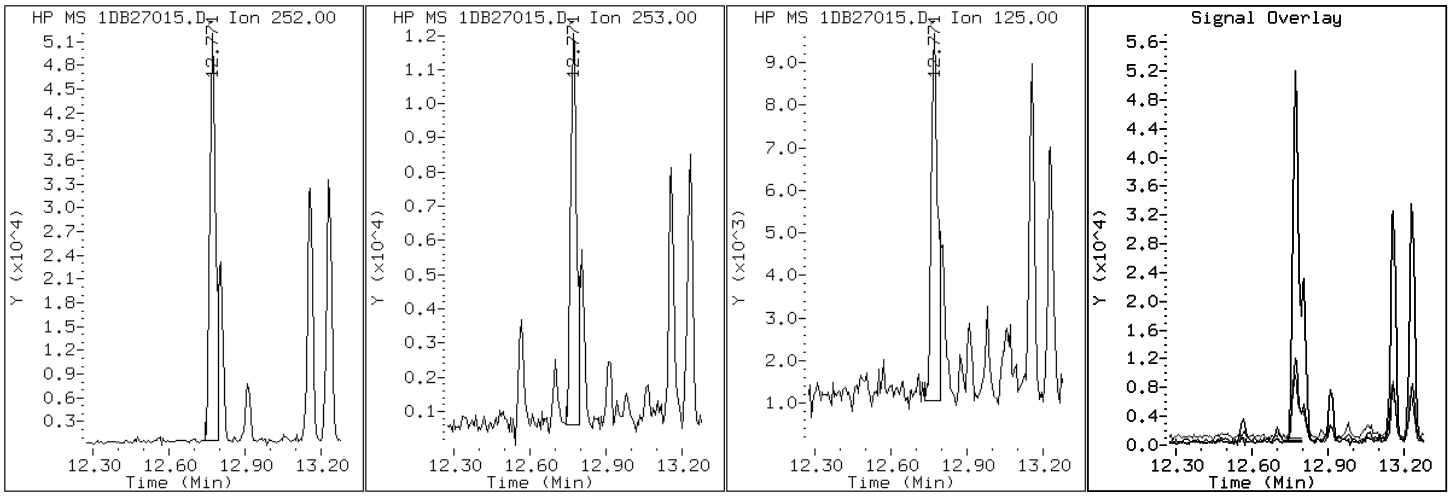
Data File: 1DB27015.D

Date: 27-FEB-2013 17:05

Client ID: FM0161AY-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-53-A Operator: SCC

19 Benzo(b)fluoranthene



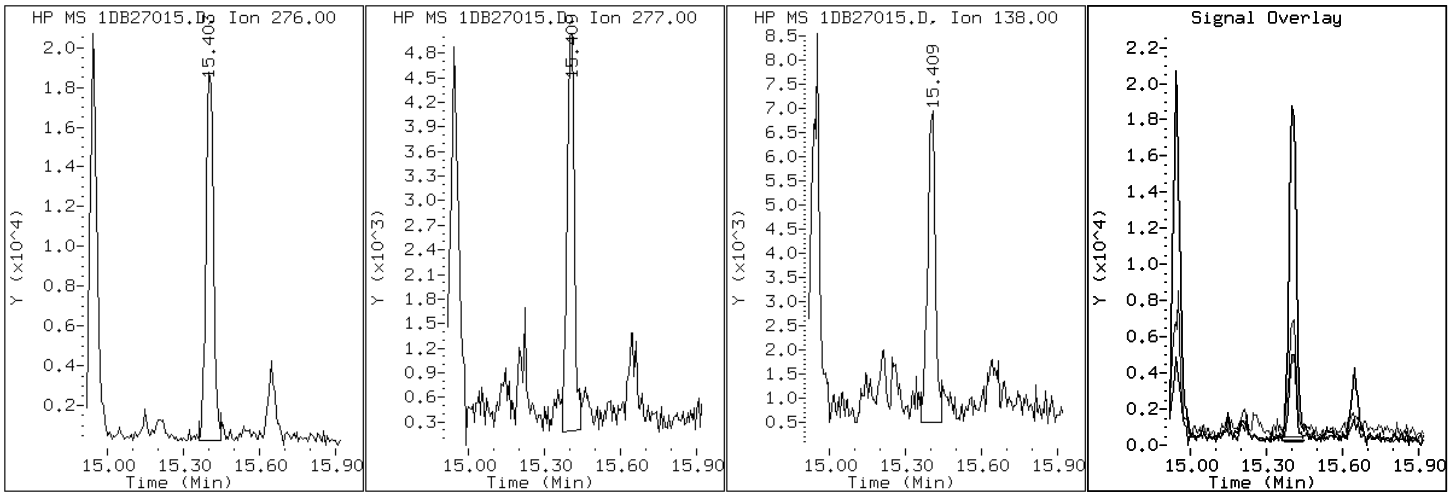
Data File: 1DB27015.D

Date: 27-FEB-2013 17:05

Client ID: FM0161AY-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-53-A Operator: SCC

25 Benzo(g,h,i)perylene



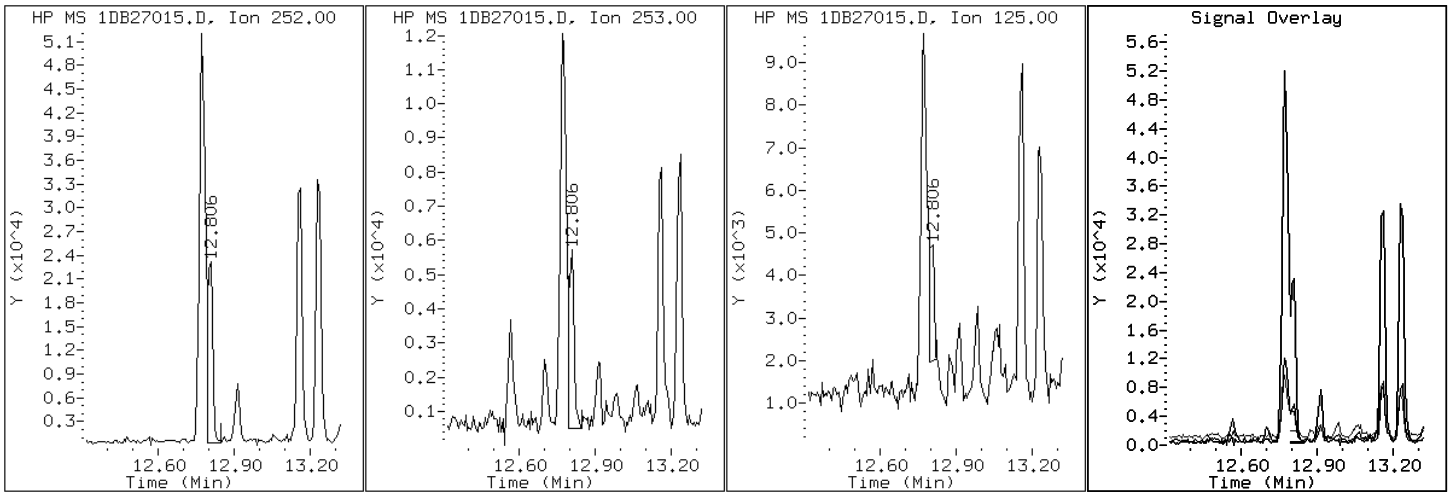
Data File: 1DB27015.D

Date: 27-FEB-2013 17:05

Client ID: FM0161AY-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-53-A Operator: SCC

20 Benzo(k)fluoranthene



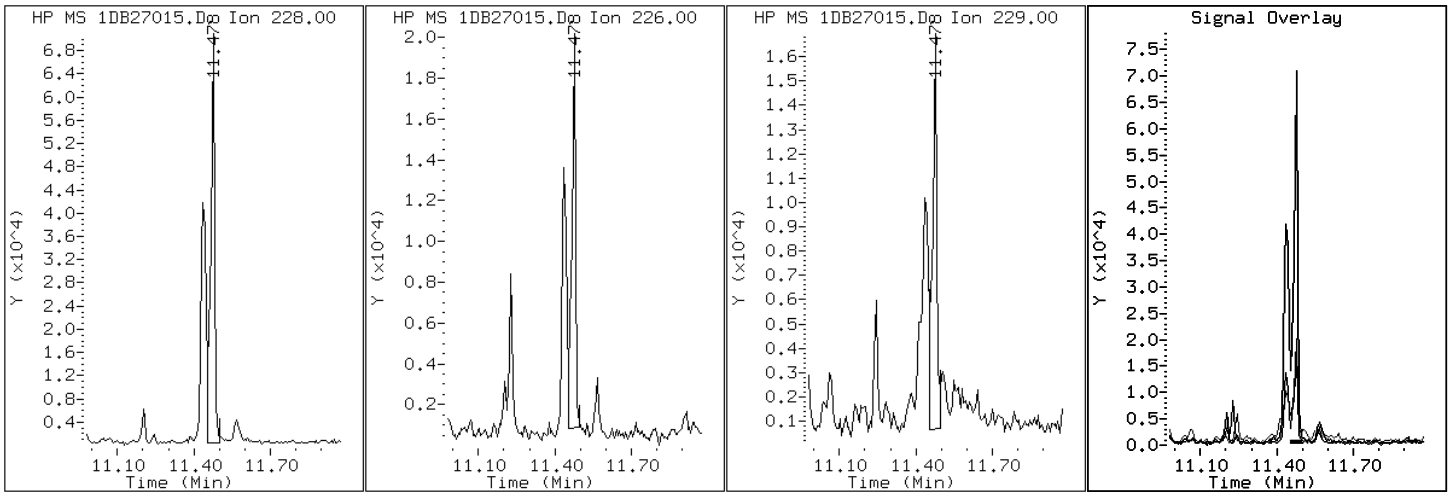
Data File: 1DB27015.D

Date: 27-FEB-2013 17:05

Client ID: FM0161AY-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-53-A Operator: SCC

18 Chrysene



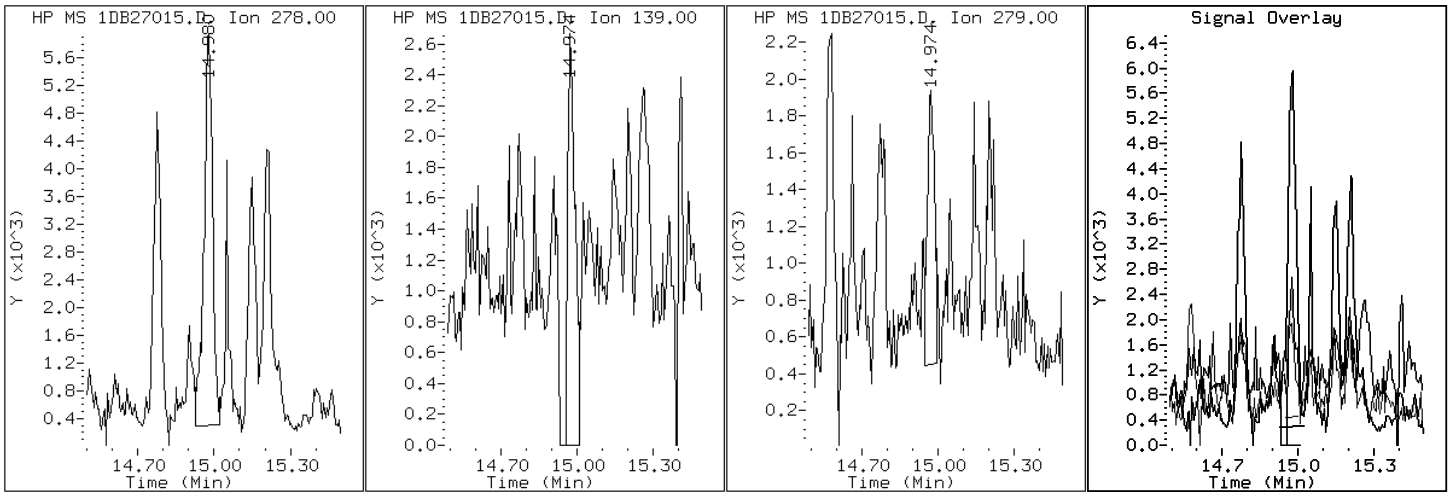
Data File: 1DB27015.D

Date: 27-FEB-2013 17:05

Client ID: FM0161AY-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-53-A Operator: SCC

24 Dibenzo(a,h)anthracene



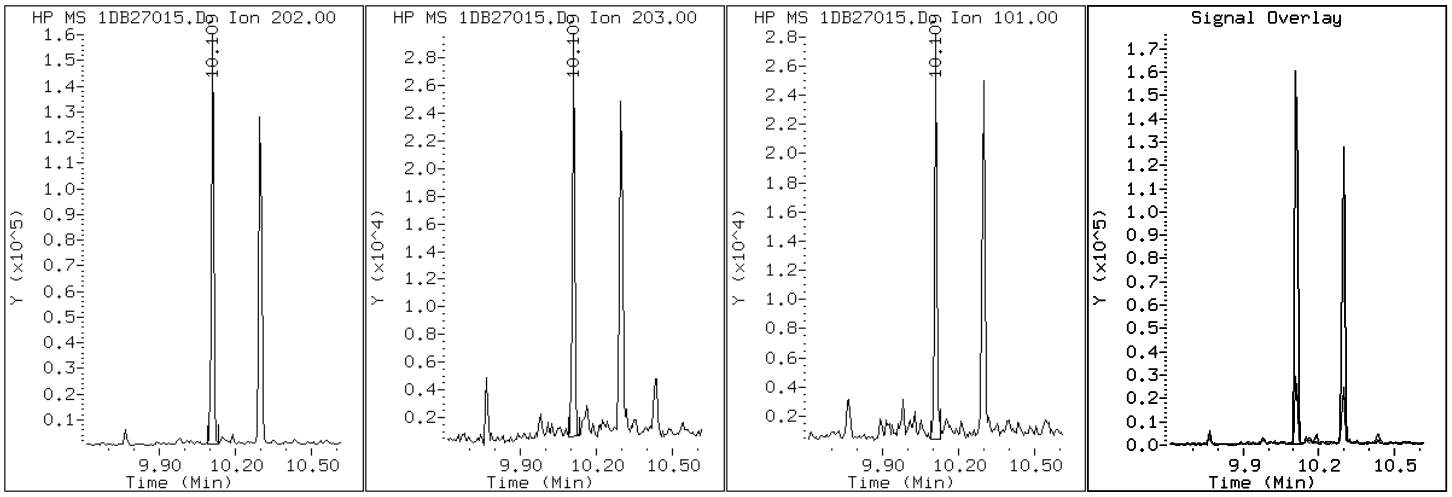
Data File: 1DB27015.D

Date: 27-FEB-2013 17:05

Client ID: FM0161AY-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-53-A Operator: SCC

14 Fluoranthene



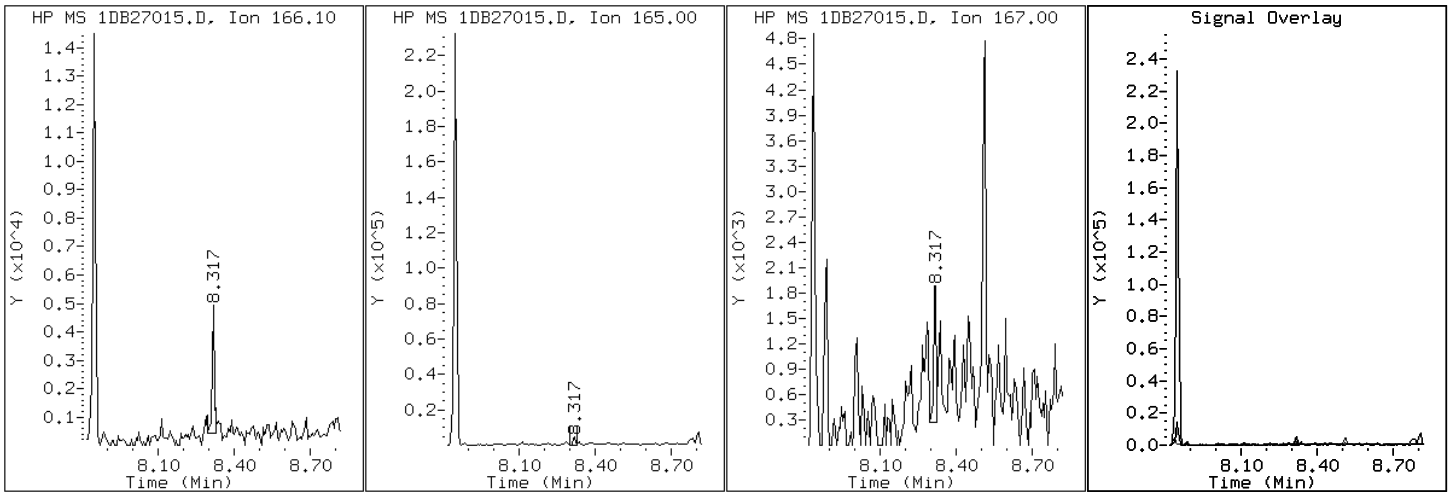
Data File: 1DB27015.D

Date: 27-FEB-2013 17:05

Client ID: FM0161AY-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-53-A Operator: SCC

8 Fluorene



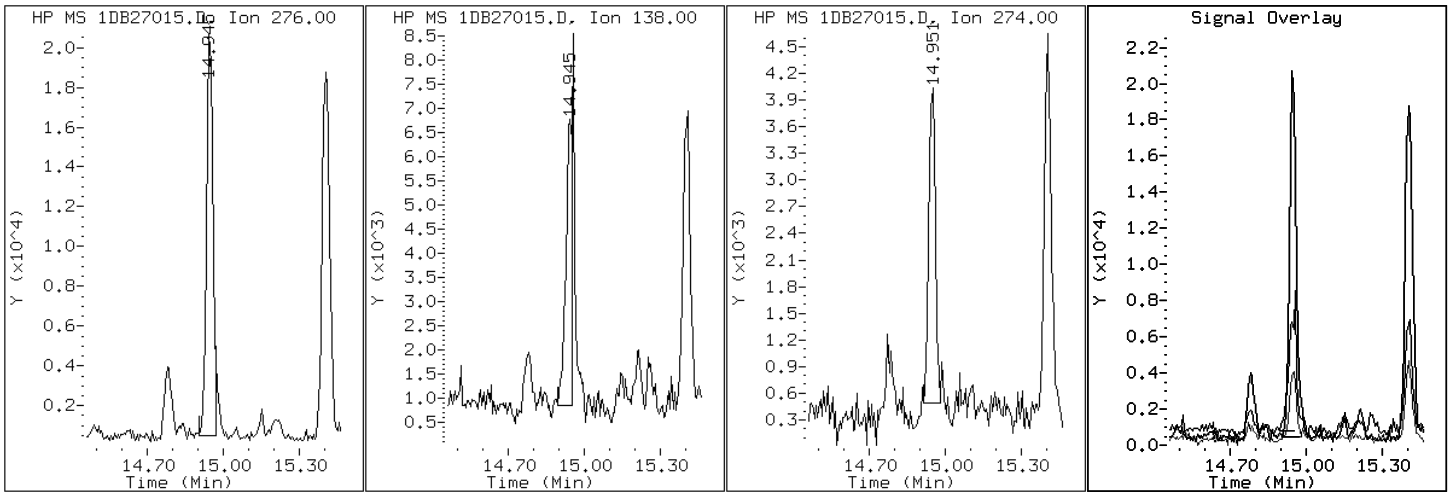
Data File: 1DB27015.D

Date: 27-FEB-2013 17:05

Client ID: FM0161AY-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-53-A Operator: SCC

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



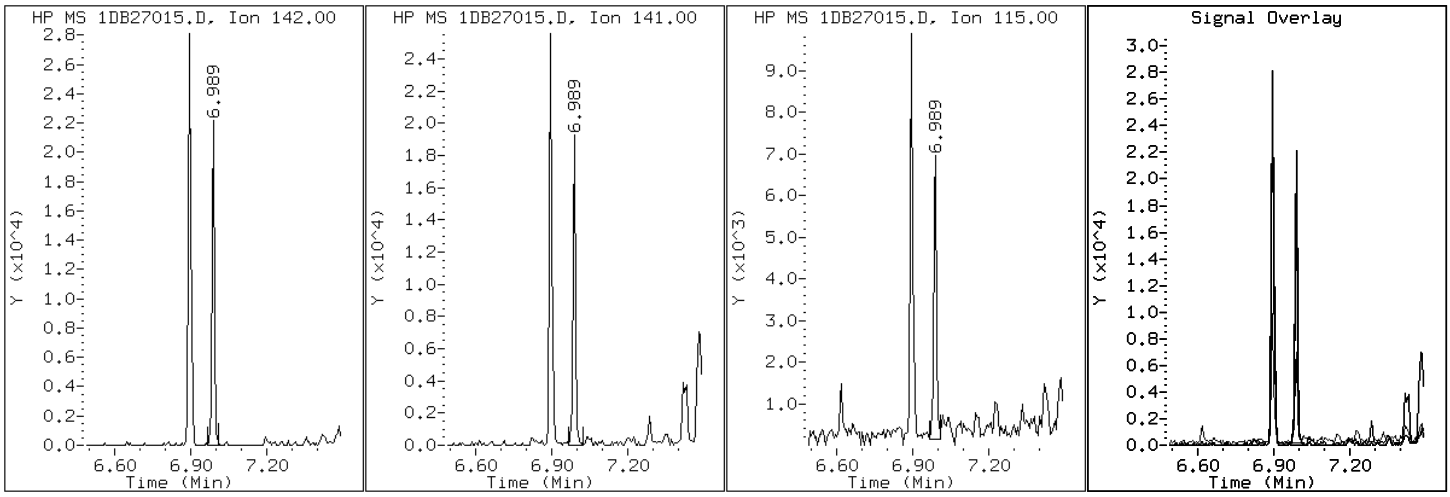
Data File: 1DB27015.D

Date: 27-FEB-2013 17:05

Client ID: FM0161AY-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-53-A Operator: SCC

4 1-Methylnaphthalene



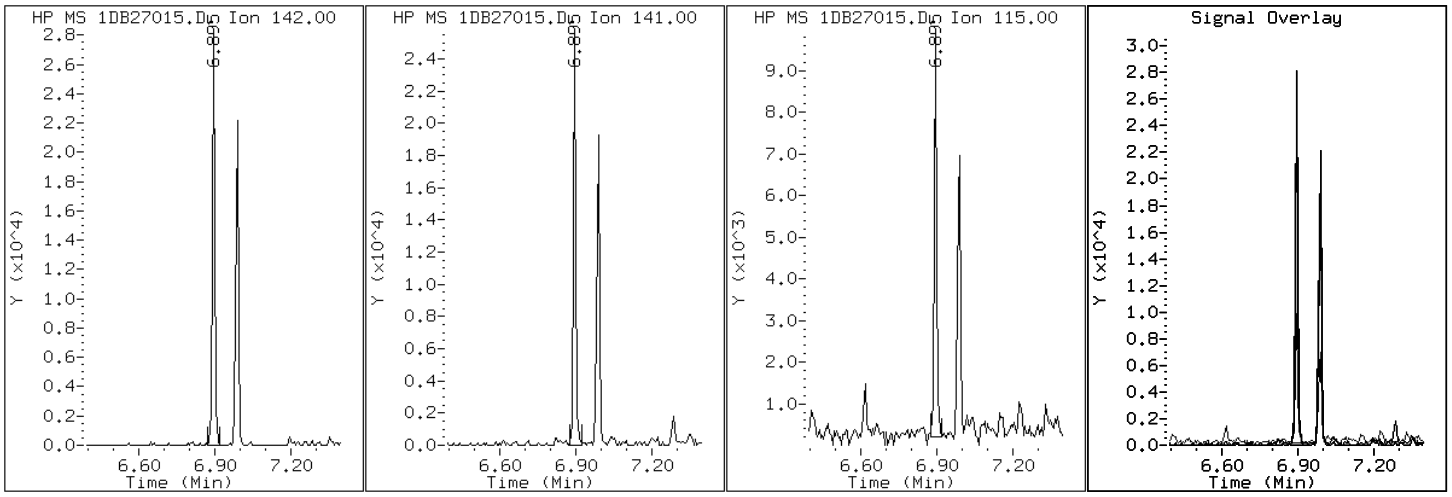
Data File: 1DB27015.D

Date: 27-FEB-2013 17:05

Client ID: FM0161AY-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-53-A Operator: SCC

3 2-Methylnaphthalene



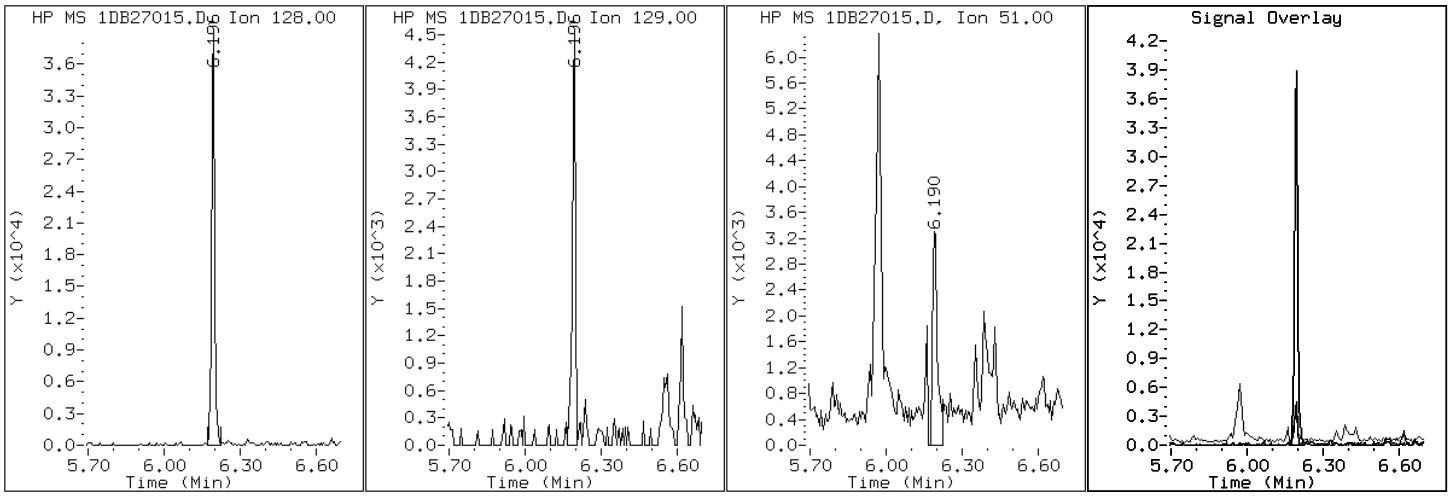
Data File: 1DB27015.D

Date: 27-FEB-2013 17:05

Client ID: FM0161AY-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-53-A Operator: SCC

2 Naphthalene



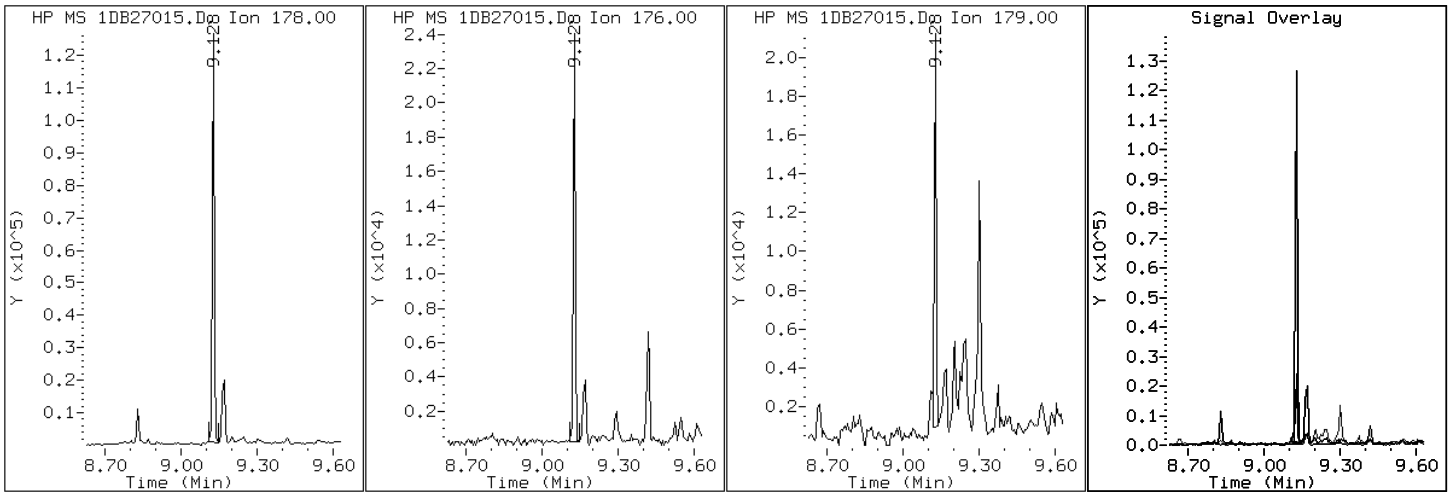
Data File: 1DB27015.D

Date: 27-FEB-2013 17:05

Client ID: FM0161AY-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-53-A Operator: SCC

10 Phenanthrene



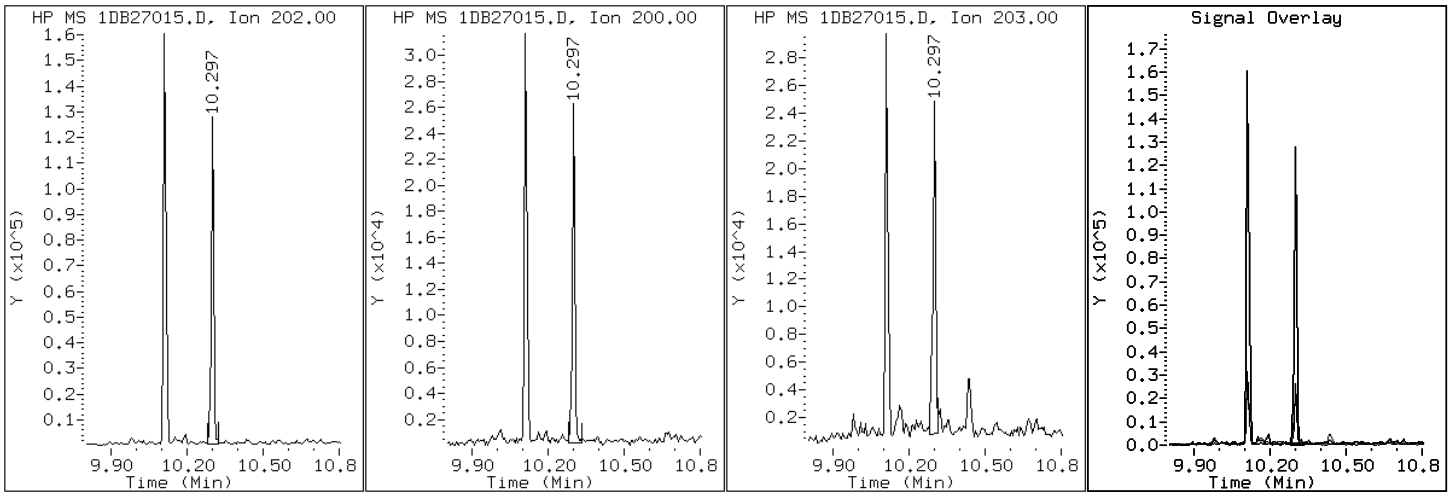
Data File: 1DB27015.D

Date: 27-FEB-2013 17:05

Client ID: FM0161AY-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-53-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB27015.D
Inj. Date and Time: 27-FEB-2013 17:05
Instrument ID: BSMSD.i
Client ID: FM0161AY-GS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/01/2013

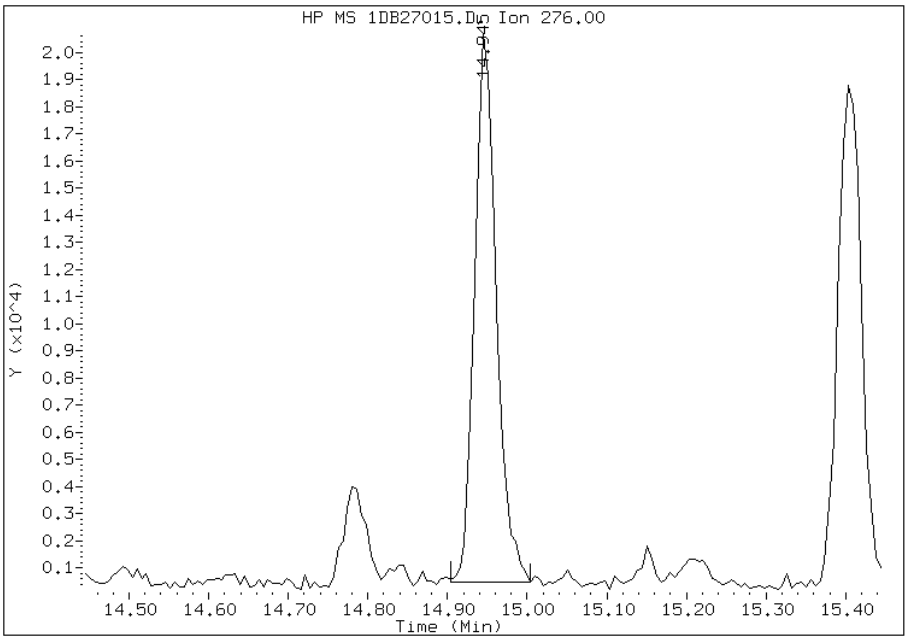
Processing Integration Results

RT: 14.94

Response: 37993

Amount: 1

Conc: 61



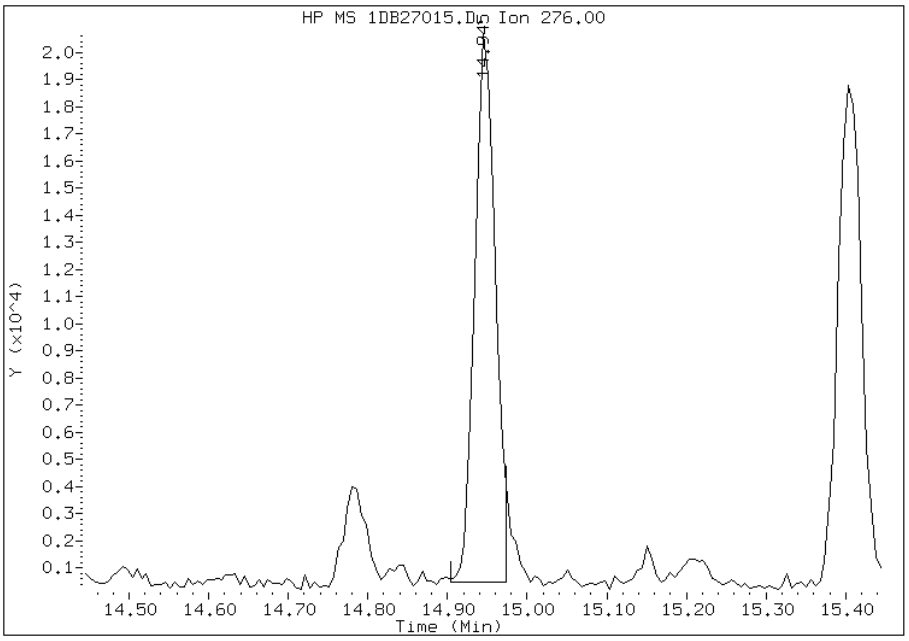
Manual Integration Results

RT: 14.94

Response: 36476

Amount: 1

Conc: 59



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:53
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87655-3

SDG No.: 68087655-3

Client Sample ID: FM0161AZ-GS | Lab Sample ID: 680-87655-54

Matrix: Solid | Lab File ID: 1DB27016.D

Analysis Method: 8270C LL | Date Collected: 02/19/2013 13:30

Extract. Method: 3546 | Date Extracted: 02/25/2013 14:06

Sample wt/vol: 15.00(g) | Date Analyzed: 02/27/2013 17:28

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

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

% Moisture: 16.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134905 | 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	16		10	5.1
56-55-3	Benzo[a]anthracene	77		9.6	4.7
50-32-8	Benzo[a]pyrene	73		13	6.3
205-99-2	Benzo[b]fluoranthene	130		15	7.3
191-24-2	Benzo[g,h,i]perylene	66		24	5.3
207-08-9	Benzo[k]fluoranthene	44		9.6	4.3
218-01-9	Chrysene	100		11	5.4
53-70-3	Dibenz(a,h)anthracene	20	J	24	4.9
206-44-0	Fluoranthene	130		24	4.8
86-73-7	Fluorene	7.2	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	58		24	8.5
90-12-0	1-Methylnaphthalene	40	J	48	5.3
91-57-6	2-Methylnaphthalene	47	J	48	8.5
91-20-3	Naphthalene	48		48	5.3
85-01-8	Phenanthrene	92		9.6	4.7
129-00-0	Pyrene	110		24	4.5

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

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022713.b\1DB27016.D
Lab Smp Id: 680-87655-A-54-A Client Smp ID: FM0161AZ-GS
Inj Date : 27-FEB-2013 17:28
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87655-A-54-A
Misc Info : 680-87655-A-54-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D022713.b\dFASTPAHi.m
Meth Date : 27-Feb-2013 14:11 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.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	15.000	Weight Extracted
M	16.870	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.172	6.174	(1.000)	2452066	40.0000	
* 6 Acenaphthene-d10	164	7.847	7.848	(1.000)	1419018	40.0000	
* 9 Phenanthrene-d10	188	9.110	9.111	(1.000)	2258599	40.0000	
$ 13 o-Terphenyl	230	9.421	9.417	(1.034)	293840	8.41297	670
* 17 Chrysene-d12	240	11.454	11.456	(1.000)	2112794	40.0000	
* 22 Perylene-d12	264	13.334	13.330	(1.000)	2177394	40.0000	
2 Naphthalene	128	6.196	6.197	(1.004)	39015	0.59479	48
3 2-Methylnaphthalene	142	6.895	6.896	(1.117)	24702	0.59118	47
4 1-Methylnaphthalene	142	6.989	6.990	(1.132)	19389	0.49553	40
5 Acenaphthylene	152	7.717	7.719	(0.984)	7920	0.12660	10
8 Fluorene	166	8.317	8.318	(1.060)	3986	0.08944	7.2
10 Phenanthrene	178	9.128	9.129	(1.002)	73696	1.14945	92
11 Anthracene	178	9.169	9.170	(1.006)	12639	0.19703	16
12 Carbazole	167	9.304	9.305	(1.021)	8725	0.15215	12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.109	10.116	(1.110)	107389	1.60503	130
15 Pyrene	202	10.297	10.304	(0.899)	90876	1.38664	110
16 Benzo(a)anthracene	228	11.437	11.438	(0.998)	55740	0.96363	77
18 Chrysene	228	11.478	11.479	(1.002)	77183	1.29247	100
19 Benzo(b)fluoranthene	252	12.770	12.778	(0.958)	90803	1.62016	130
20 Benzo(k)fluoranthene	252	12.806	12.819	(0.960)	32534	0.55441	44
21 Benzo(a)pyrene	252	13.229	13.236	(0.992)	50262	0.90625	73
23 Indeno(1,2,3-cd)pyrene	276	14.944	14.963	(1.121)	42438	0.71700	58(M)
24 Dibenzo(a,h)anthracene	278	14.980	14.999	(1.123)	13385	0.24487	20
25 Benzo(g,h,i)perylene	276	15.403	15.422	(1.155)	46203	0.81874	66

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DB27016.D

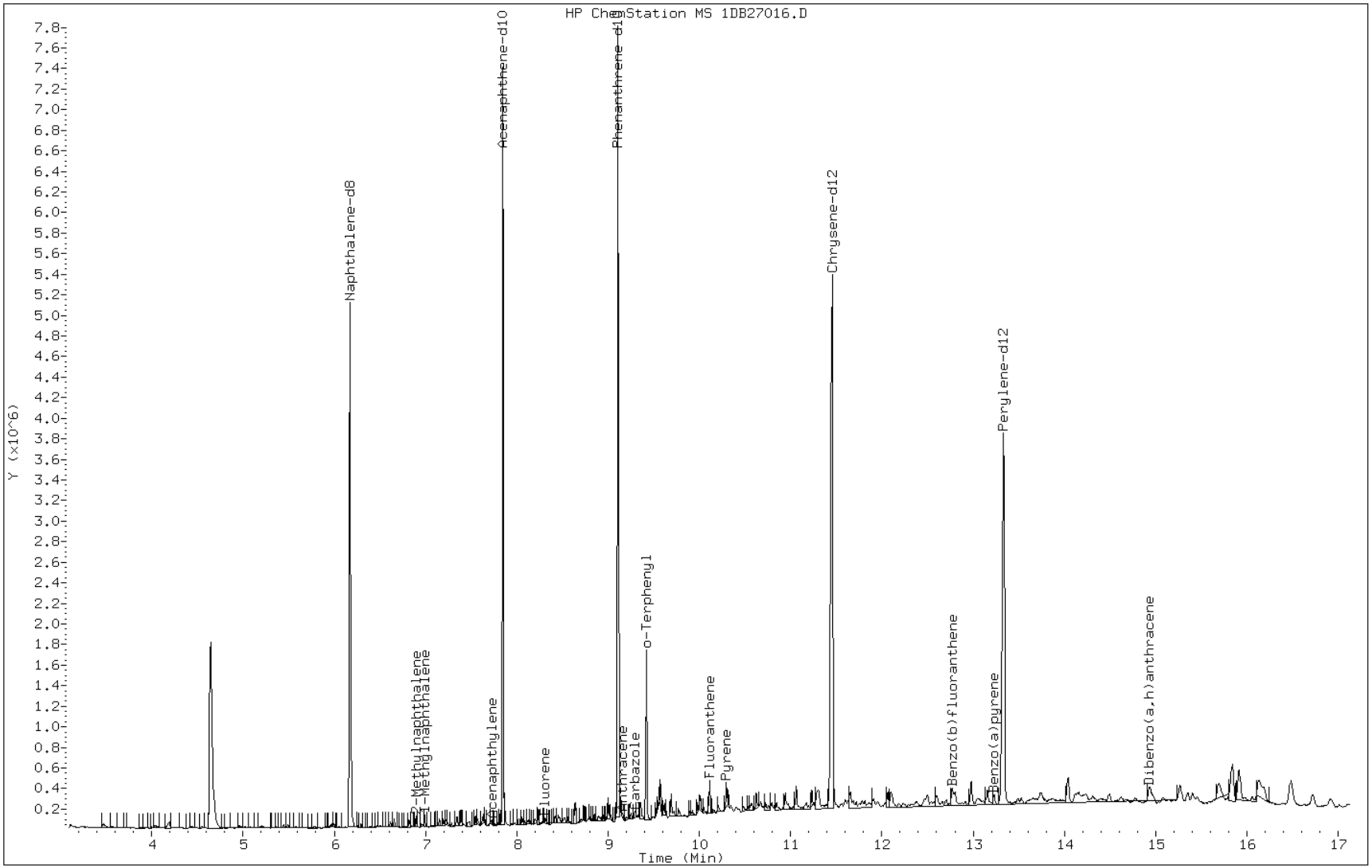
Date: 27-FEB-2013 17:28

Client ID: FM0161AZ-GS

Instrument: BSMSD.i

Sample Info: 680-87655-A-54-A

Operator: SCC



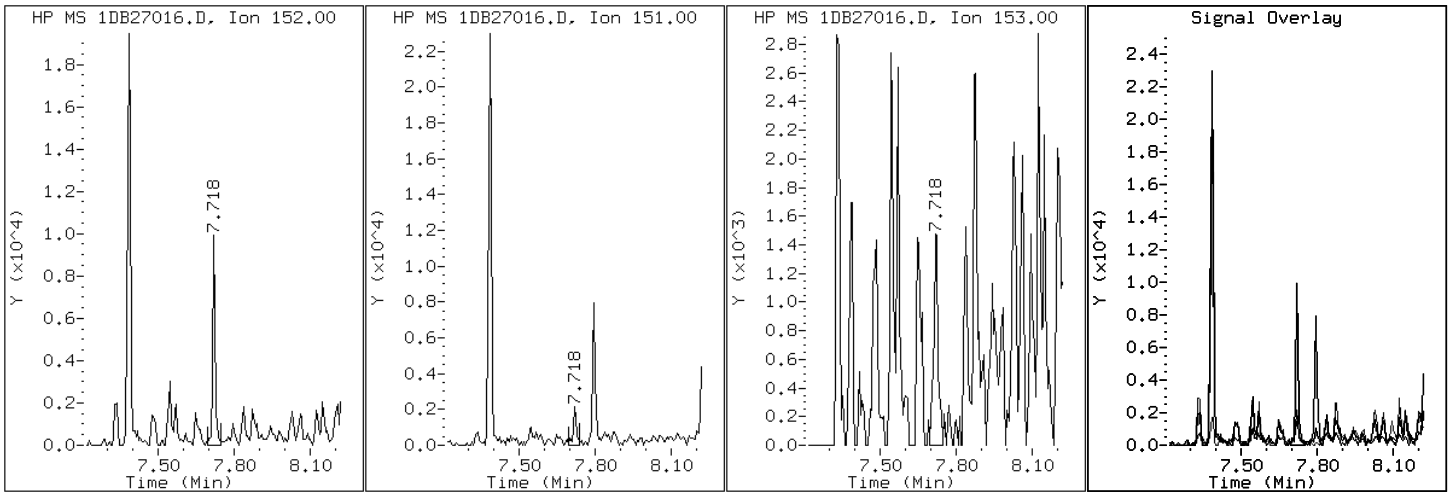
Data File: 1DB27016.D

Date: 27-FEB-2013 17:28

Client ID: FM0161AZ-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-54-A Operator: SCC

5 Acenaphthylene



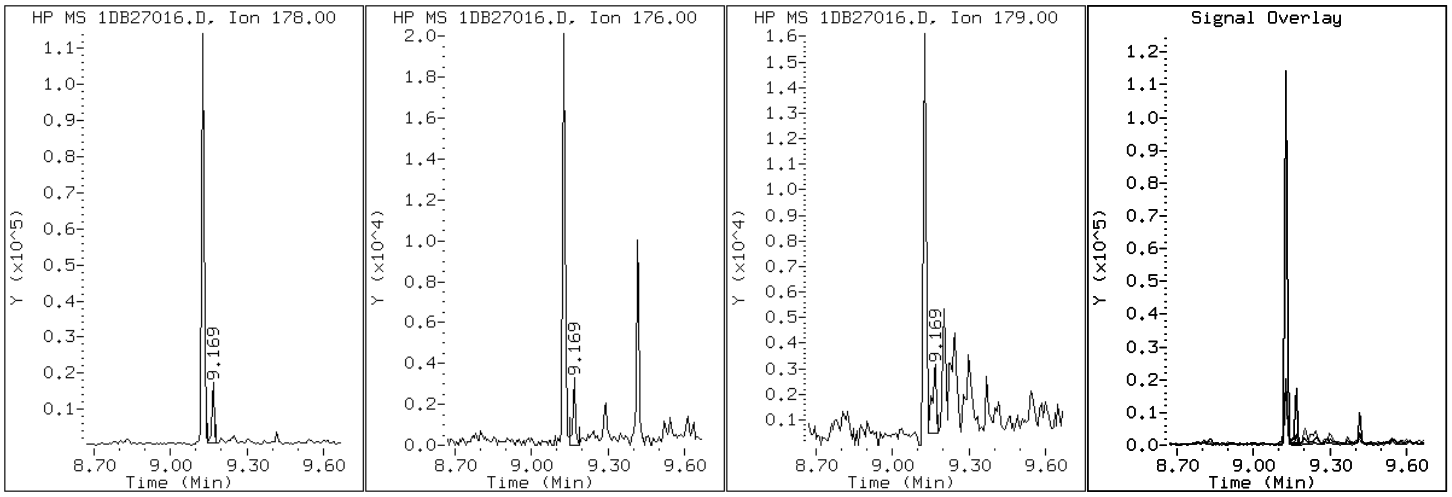
Data File: 1DB27016.D

Date: 27-FEB-2013 17:28

Client ID: FM0161AZ-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-54-A Operator: SCC

11 Anthracene



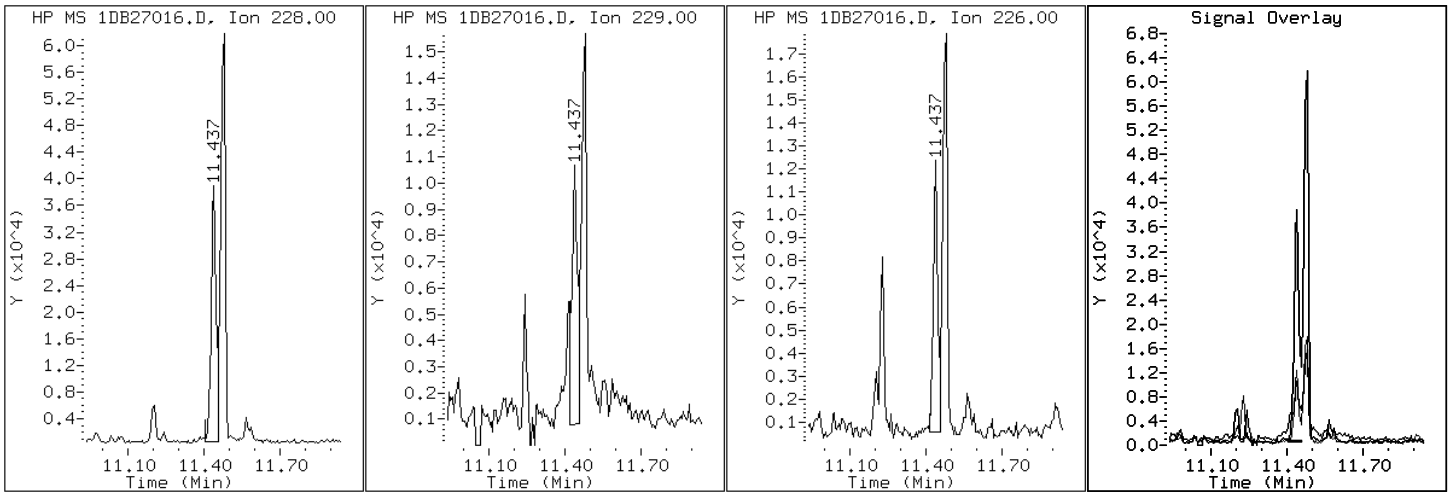
Data File: 1DB27016.D

Date: 27-FEB-2013 17:28

Client ID: FM0161AZ-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-54-A Operator: SCC

16 Benzo(a)anthracene



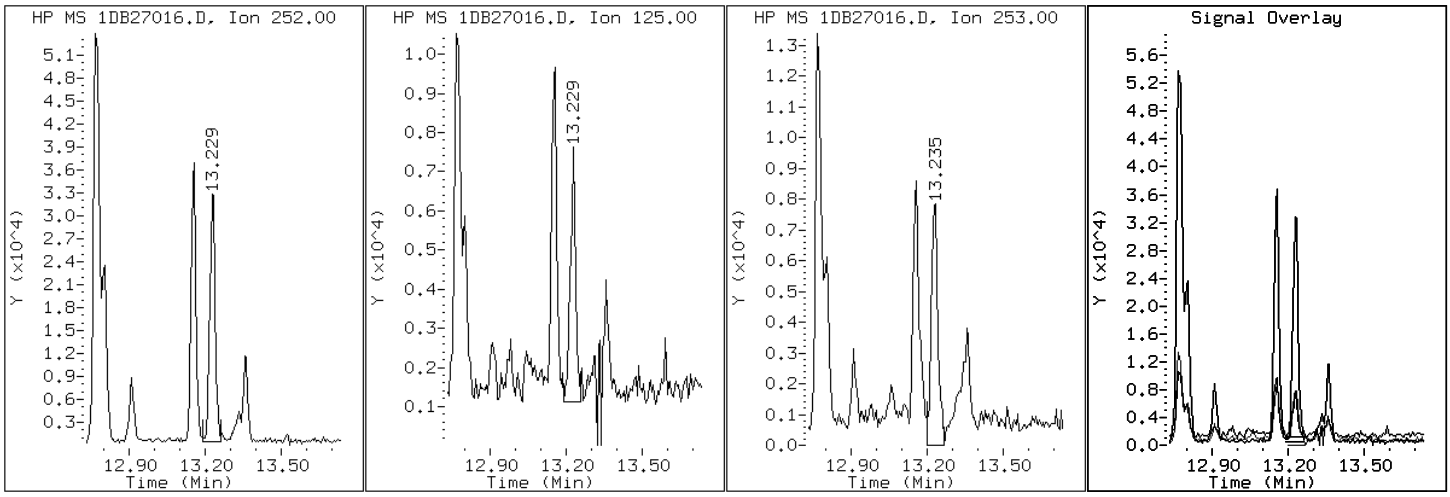
Data File: 1DB27016.D

Date: 27-FEB-2013 17:28

Client ID: FM0161AZ-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-54-A Operator: SCC

21 Benzo(a)pyrene



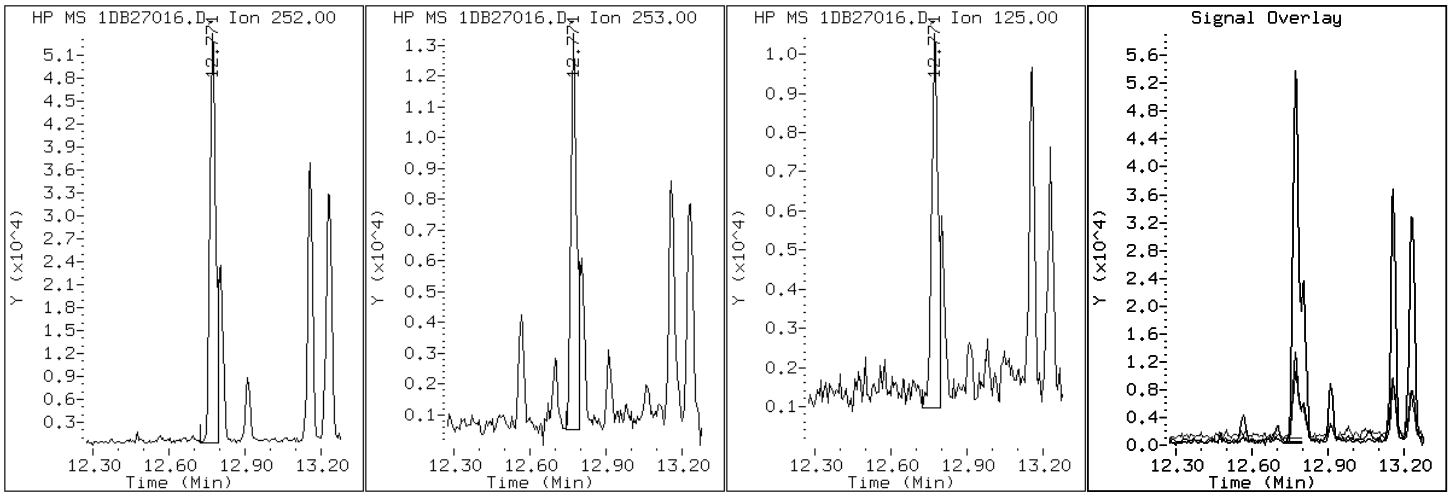
Data File: 1DB27016.D

Date: 27-FEB-2013 17:28

Client ID: FM0161AZ-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-54-A Operator: SCC

19 Benzo(b)fluoranthene



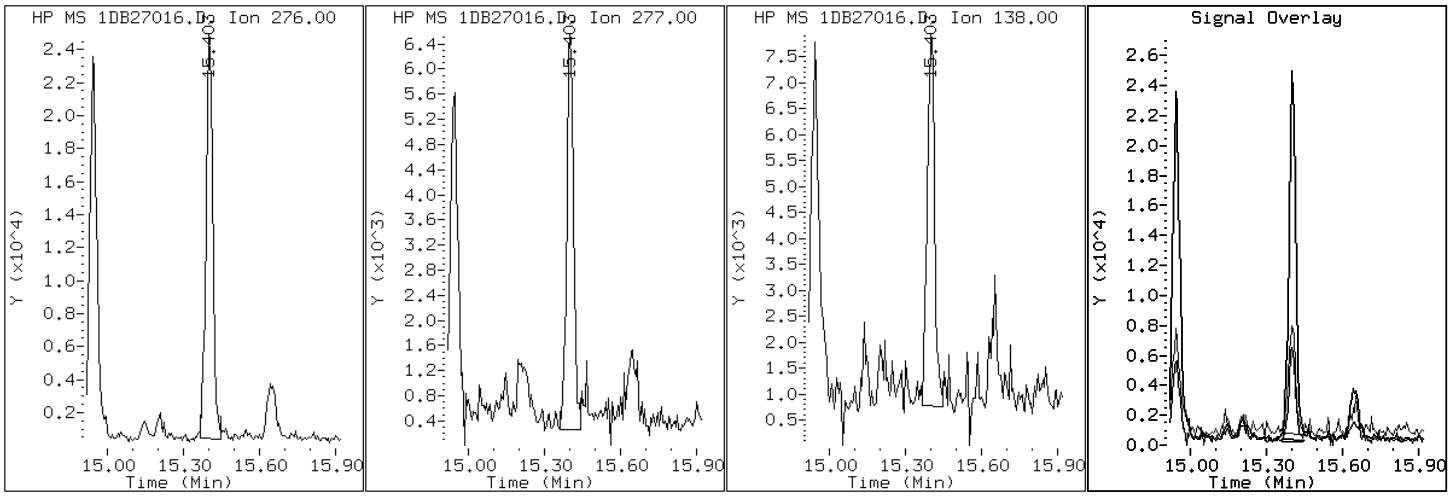
Data File: 1DB27016.D

Date: 27-FEB-2013 17:28

Client ID: FM0161AZ-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-54-A Operator: SCC

25 Benzo(g,h,i)perylene



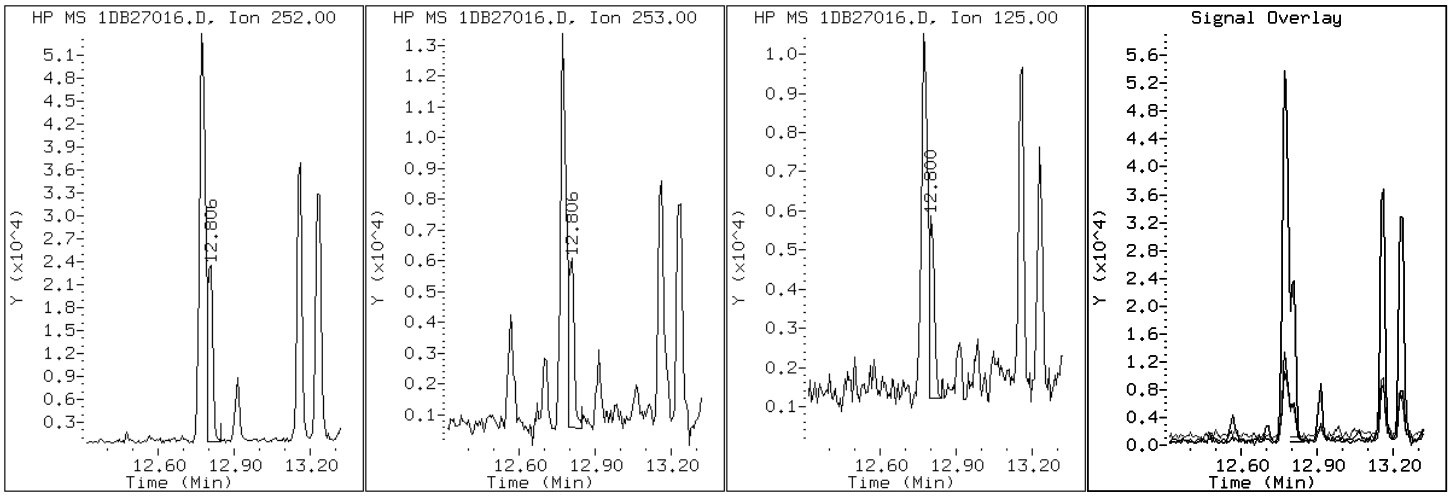
Data File: 1DB27016.D

Date: 27-FEB-2013 17:28

Client ID: FM0161AZ-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-54-A Operator: SCC

20 Benzo(k)fluoranthene



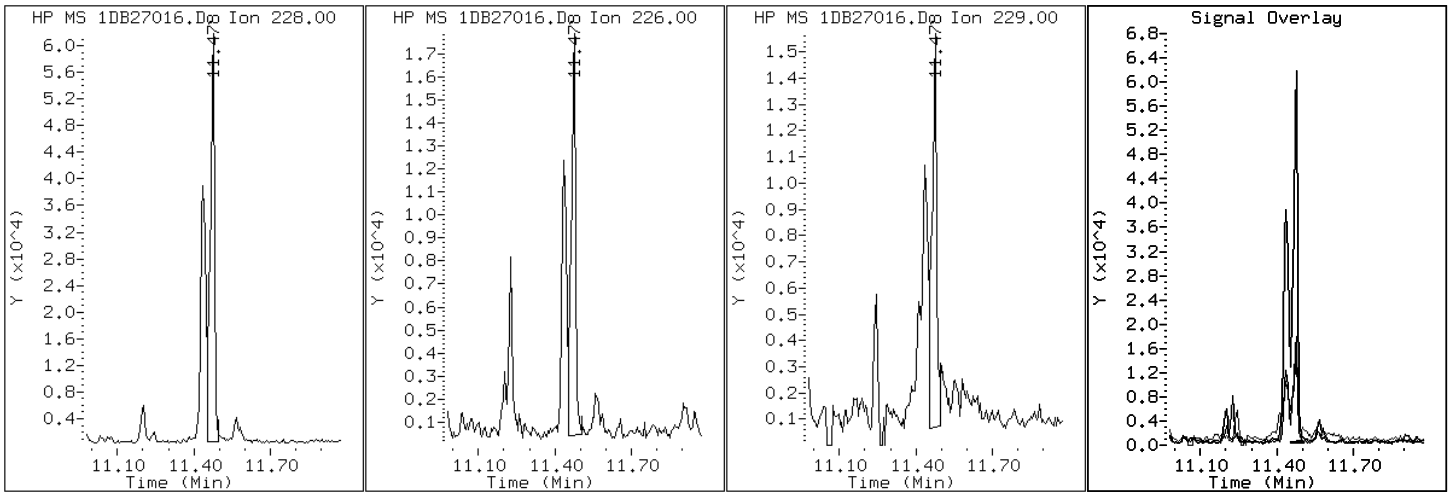
Data File: 1DB27016.D

Date: 27-FEB-2013 17:28

Client ID: FM0161AZ-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-54-A Operator: SCC

18 Chrysene



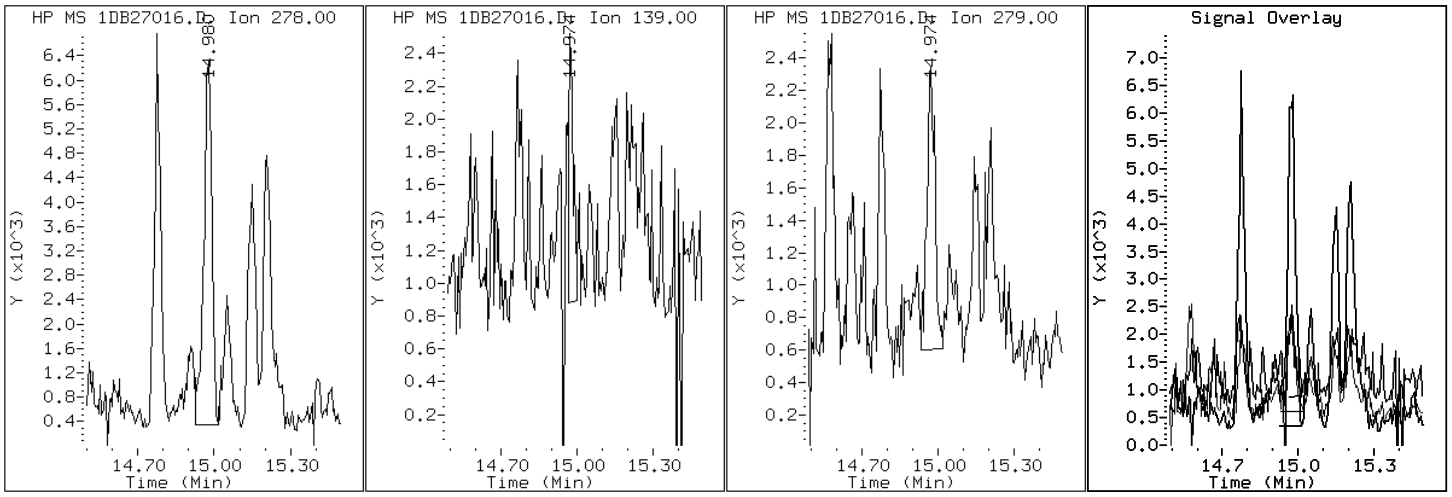
Data File: 1DB27016.D

Date: 27-FEB-2013 17:28

Client ID: FM0161AZ-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-54-A Operator: SCC

24 Dibenzo(a,h)anthracene



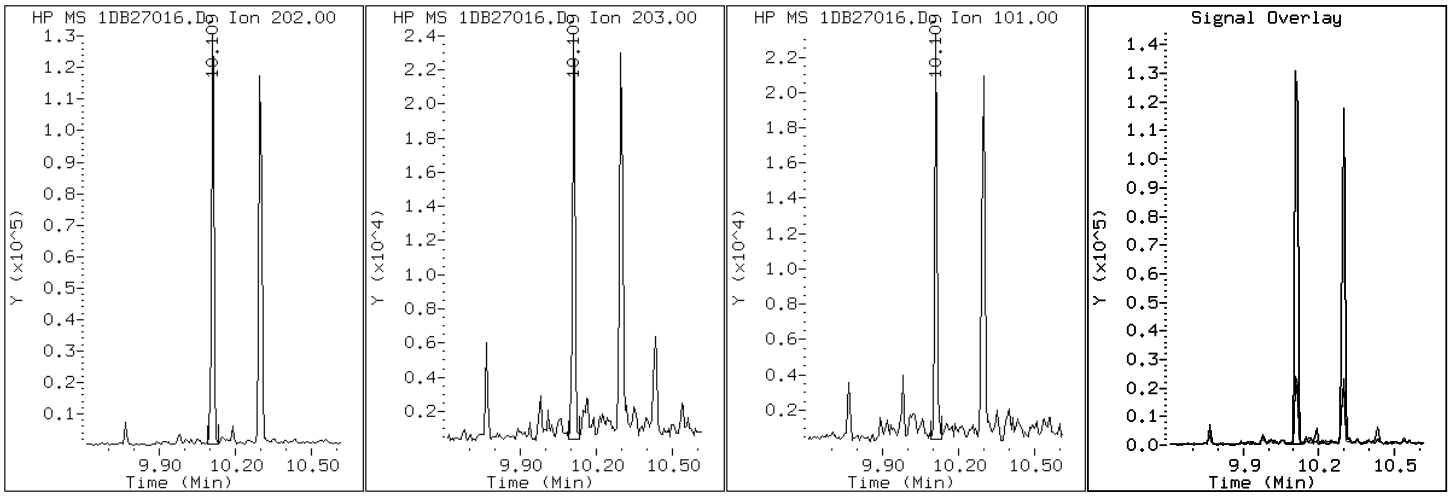
Data File: 1DB27016.D

Date: 27-FEB-2013 17:28

Client ID: FM0161AZ-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-54-A Operator: SCC

14 Fluoranthene



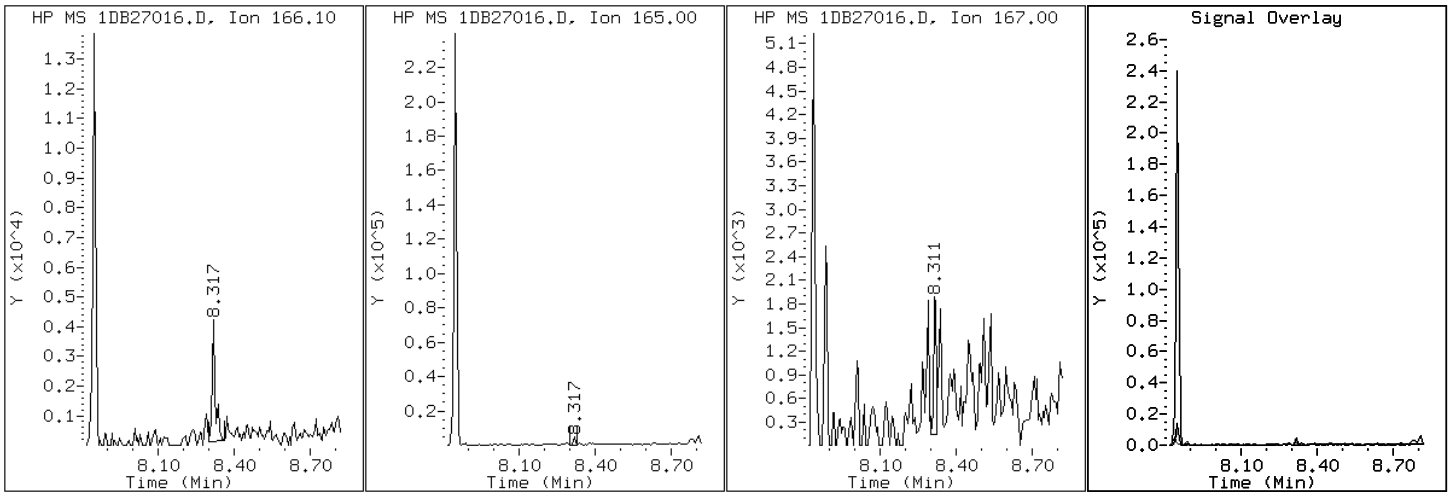
Data File: 1DB27016.D

Date: 27-FEB-2013 17:28

Client ID: FM0161AZ-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-54-A Operator: SCC

8 Fluorene



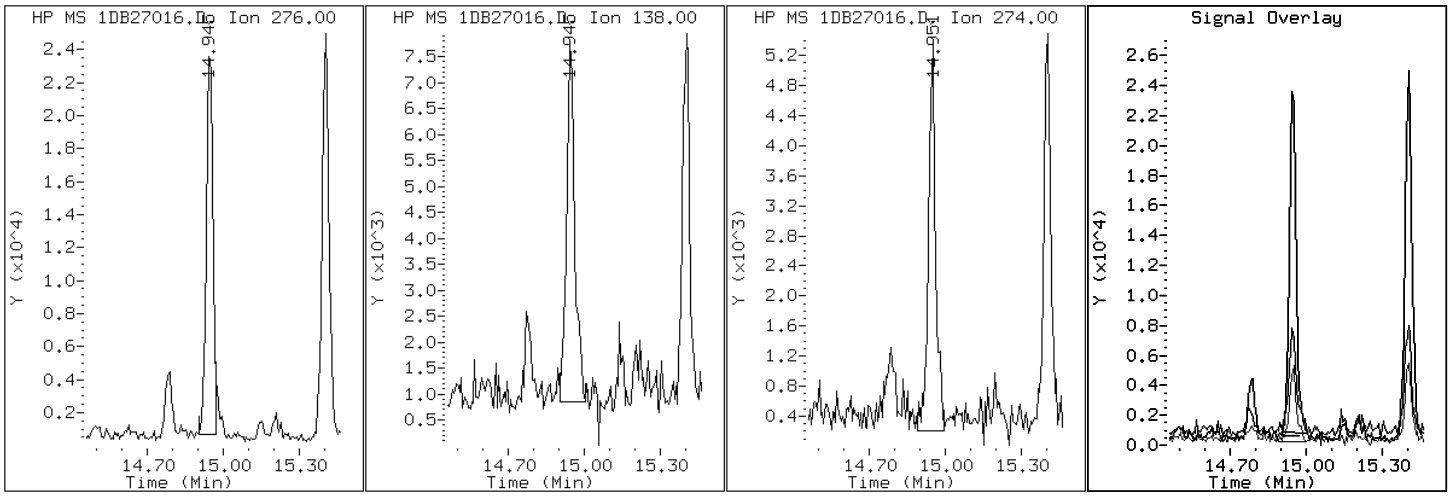
Data File: 1DB27016.D

Date: 27-FEB-2013 17:28

Client ID: FM0161AZ-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-54-A Operator: SCC

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



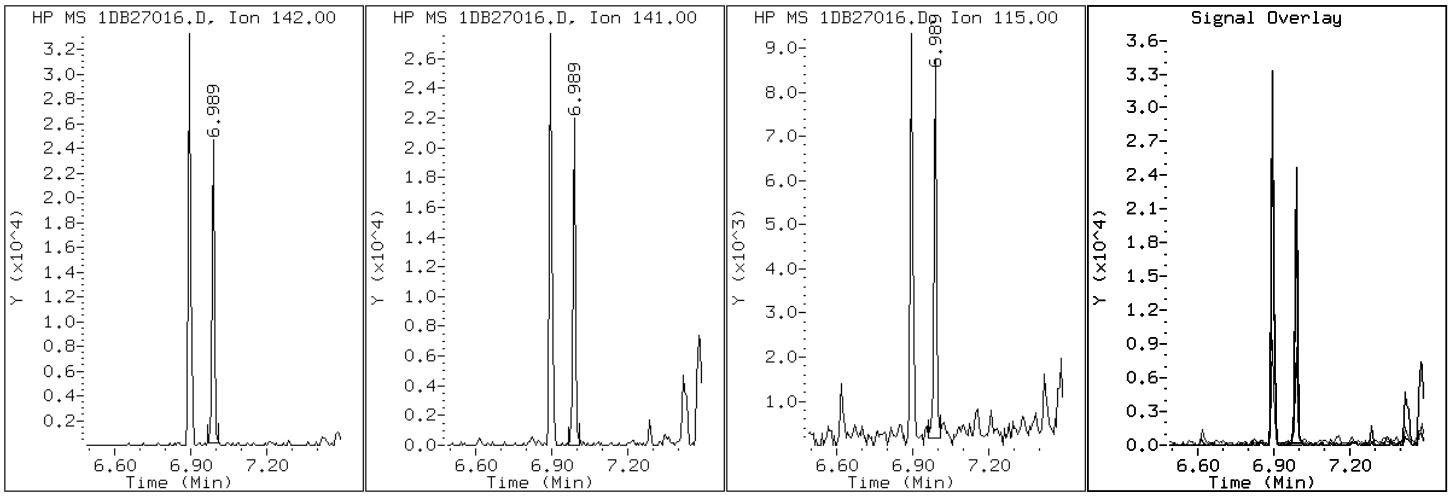
Data File: 1DB27016.D

Date: 27-FEB-2013 17:28

Client ID: FM0161AZ-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-54-A Operator: SCC

4 1-Methylnaphthalene



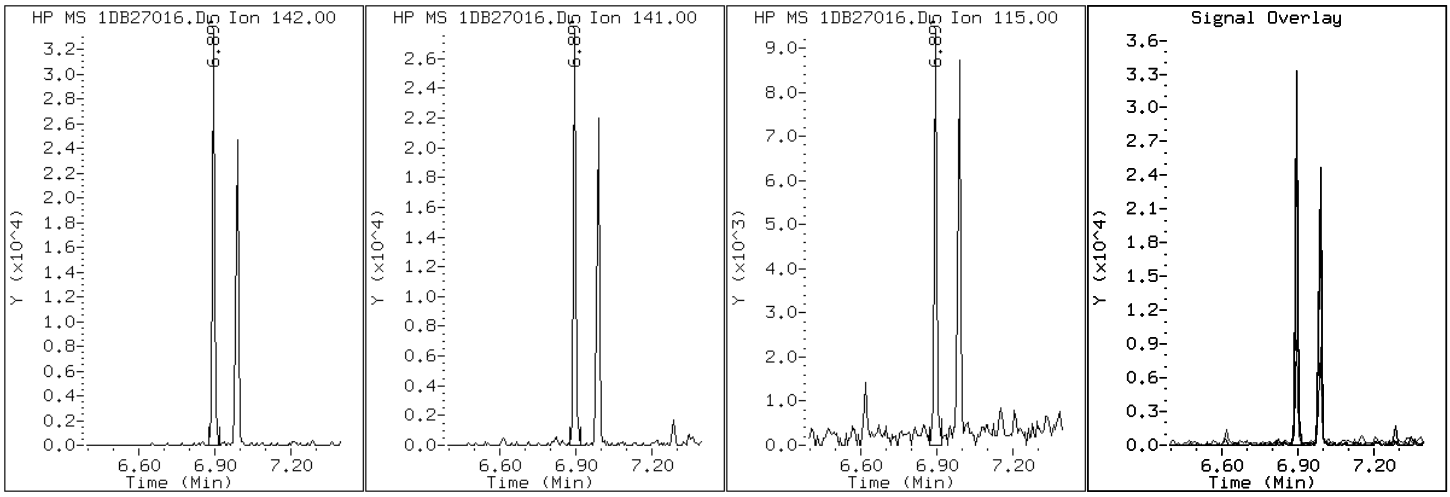
Data File: 1DB27016.D

Date: 27-FEB-2013 17:28

Client ID: FM0161AZ-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-54-A Operator: SCC

3 2-Methylnaphthalene



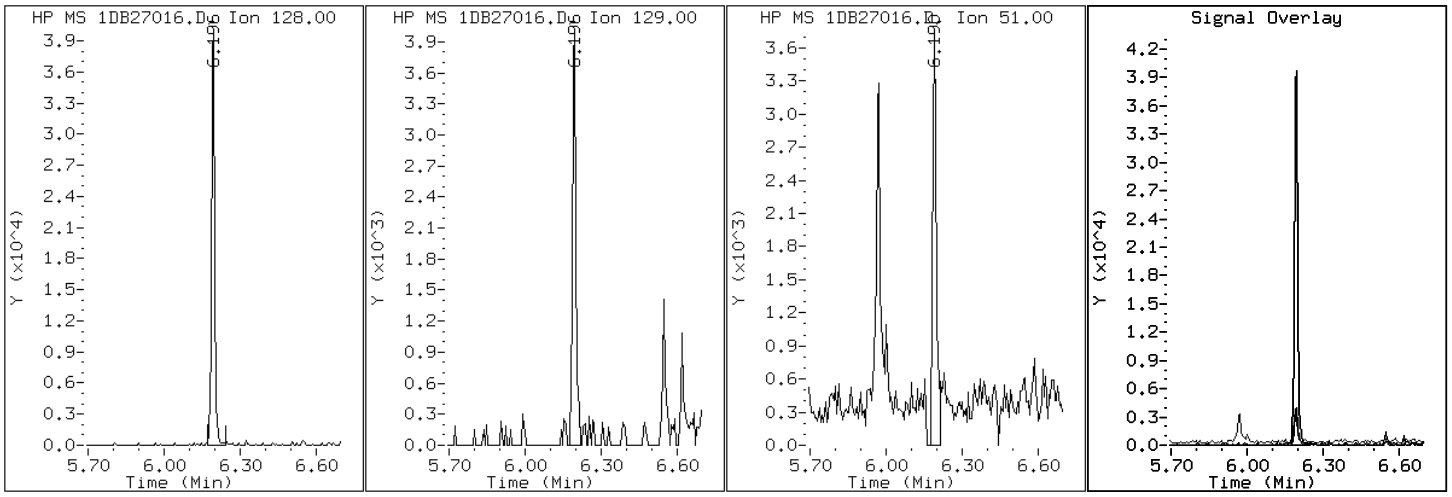
Data File: 1DB27016.D

Date: 27-FEB-2013 17:28

Client ID: FM0161AZ-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-54-A Operator: SCC

2 Naphthalene



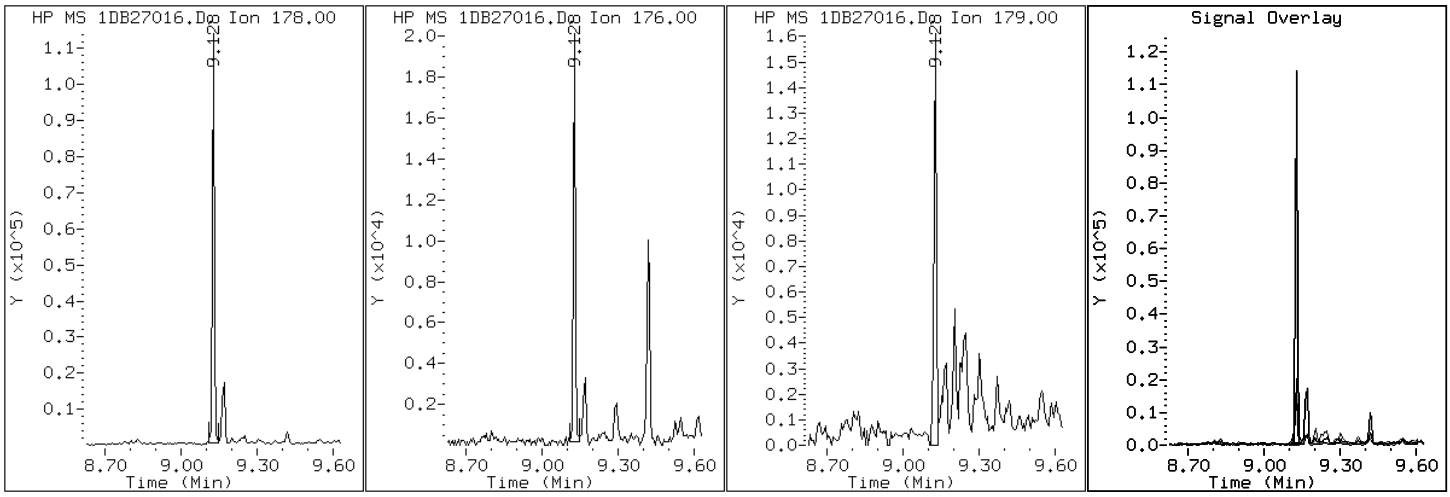
Data File: 1DB27016.D

Date: 27-FEB-2013 17:28

Client ID: FM0161AZ-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-54-A Operator: SCC

10 Phenanthrene



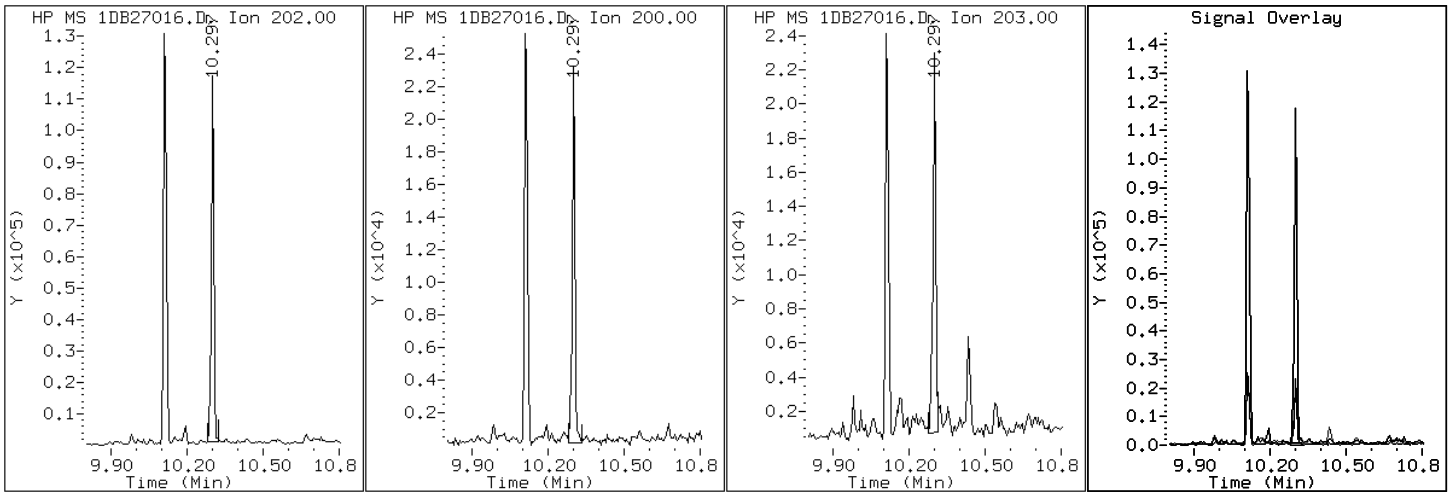
Data File: 1DB27016.D

Date: 27-FEB-2013 17:28

Client ID: FM0161AZ-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-54-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB27016.D
Inj. Date and Time: 27-FEB-2013 17:28
Instrument ID: BSMSD.i
Client ID: FM0161AZ-GS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/01/2013

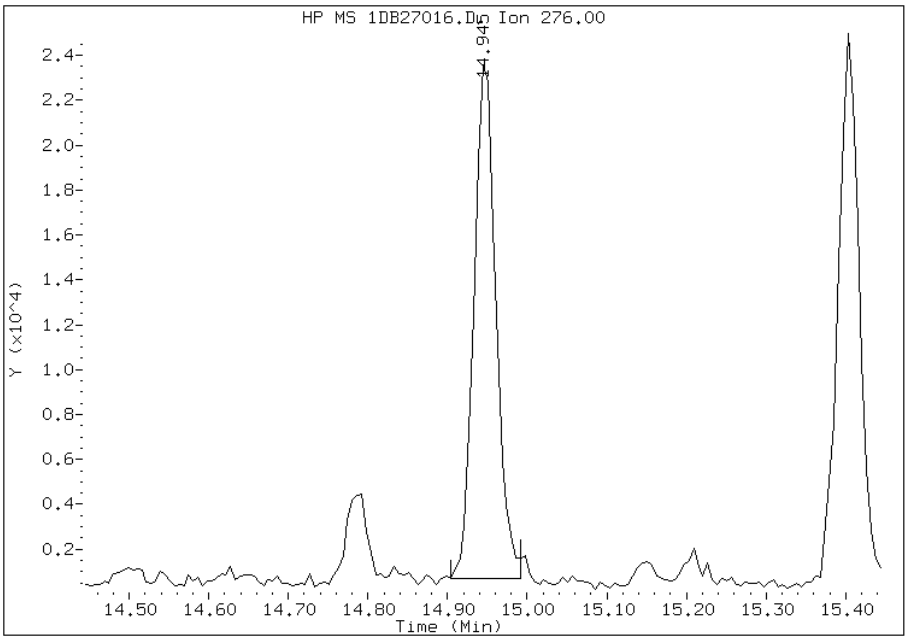
Processing Integration Results

RT: 14.94

Response: 43770

Amount: 1

Conc: 59



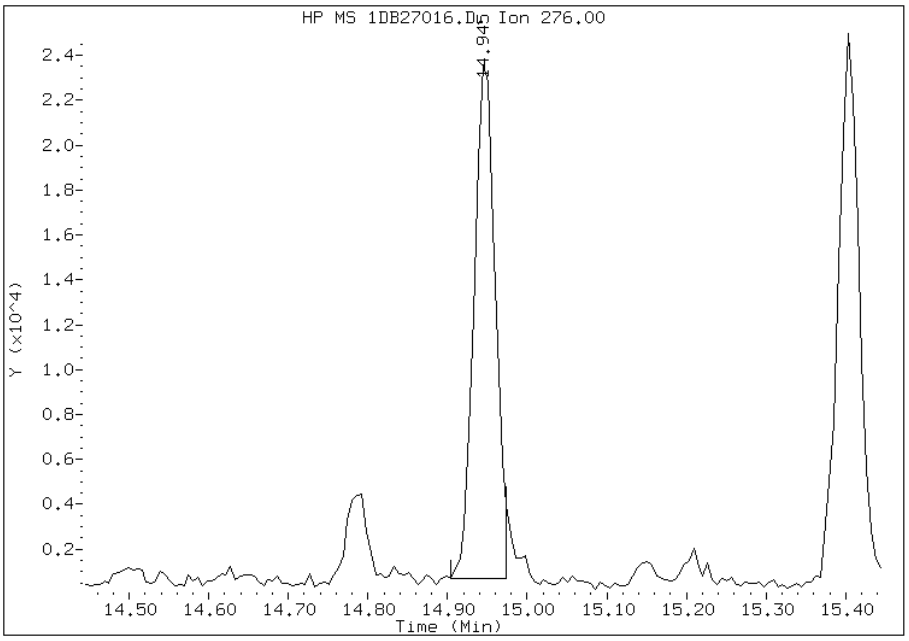
Manual Integration Results

RT: 14.94

Response: 42438

Amount: 1

Conc: 58



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:54
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87655-3

SDG No.: 68087655-3

Client Sample ID: FM0161ABB-GS | Lab Sample ID: 680-87655-55

Matrix: Solid | Lab File ID: 1DB27017.D

Analysis Method: 8270C LL | Date Collected: 02/19/2013 13:32

Extract. Method: 3546 | Date Extracted: 02/25/2013 14:06

Sample wt/vol: 15.23(g) | Date Analyzed: 02/27/2013 17:50

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

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

% Moisture: 32.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134905 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	29
208-96-8	Acenaphthylene	23	J	58	7.3
120-12-7	Anthracene	43		12	6.1
56-55-3	Benzo[a]anthracene	120		12	5.7
50-32-8	Benzo[a]pyrene	110		15	7.5
205-99-2	Benzo[b]fluoranthene	250		18	8.8
191-24-2	Benzo[g,h,i]perylene	94		29	6.4
207-08-9	Benzo[k]fluoranthene	69		12	5.2
218-01-9	Chrysene	170		13	6.5
53-70-3	Dibenz(a,h)anthracene	29		29	5.9
206-44-0	Fluoranthene	190		29	5.8
86-73-7	Fluorene	8.4	J	29	5.9
193-39-5	Indeno[1,2,3-cd]pyrene	87		29	10
90-12-0	1-Methylnaphthalene	74		58	6.4
91-57-6	2-Methylnaphthalene	84		58	10
91-20-3	Naphthalene	87		58	6.4
85-01-8	Phenanthrene	120		12	5.7
129-00-0	Pyrene	200		29	5.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	77		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022713.b\1DB27017.D
Lab Smp Id: 680-87655-A-55-A Client Smp ID: FM0161ABB-GS
Inj Date : 27-FEB-2013 17:50
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87655-A-55-A
Misc Info : 680-87655-A-55-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D022713.b\dFASTPAHi.m
Meth Date : 27-Feb-2013 14:11 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.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	15.230	Weight Extracted
M	32.106	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.175	6.174	(1.000)	2400053	40.0000	
* 6 Acenaphthene-d10	164	7.849	7.848	(1.000)	1393006	40.0000	
* 9 Phenanthrene-d10	188	9.113	9.111	(1.000)	2242624	40.0000	
$ 13 o-Terphenyl	230	9.418	9.417	(1.034)	268022	7.72844	750
* 17 Chrysene-d12	240	11.457	11.456	(1.000)	2134059	40.0000	
* 22 Perylene-d12	264	13.343	13.330	(1.000)	2217340	40.0000	
2 Naphthalene	128	6.192	6.197	(1.003)	57661	0.89810	87
3 2-Methylnaphthalene	142	6.898	6.896	(1.117)	35347	0.86427	84
4 1-Methylnaphthalene	142	6.986	6.990	(1.131)	29247	0.76367	74
5 Acenaphthylene	152	7.720	7.719	(0.984)	14668	0.23884	23
8 Fluorene	166	8.314	8.318	(1.059)	3808	0.08704	8.4
10 Phenanthrene	178	9.130	9.129	(1.002)	77655	1.21983	120
11 Anthracene	178	9.165	9.170	(1.006)	28244	0.44343	43
12 Carbazole	167	9.306	9.305	(1.021)	15200	0.26695	26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.111	10.116	(1.110)	128418	1.93300	190
15 Pyrene	202	10.299	10.304	(0.899)	135183	2.04215	200
16 Benzo(a)anthracene	228	11.439	11.438	(0.998)	71581	1.22516	120
18 Chrysene	228	11.480	11.479	(1.002)	108090	1.79199	170
19 Benzo(b)fluoranthene	252	12.779	12.778	(0.958)	147888	2.59117	250
20 Benzo(k)fluoranthene	252	12.808	12.819	(0.960)	42646	0.71364	69(Q)
21 Benzo(a)pyrene	252	13.237	13.236	(0.992)	62262	1.10239	110
23 Indeno(1,2,3-cd)pyrene	276	14.953	14.963	(1.121)	54101	0.89759	87(M)
24 Dibenzo(a,h)anthracene	278	14.982	14.999	(1.123)	16940	0.30432	29
25 Benzo(g,h,i)perylene	276	15.417	15.422	(1.155)	55625	0.96794	94(M)

QC Flag Legend

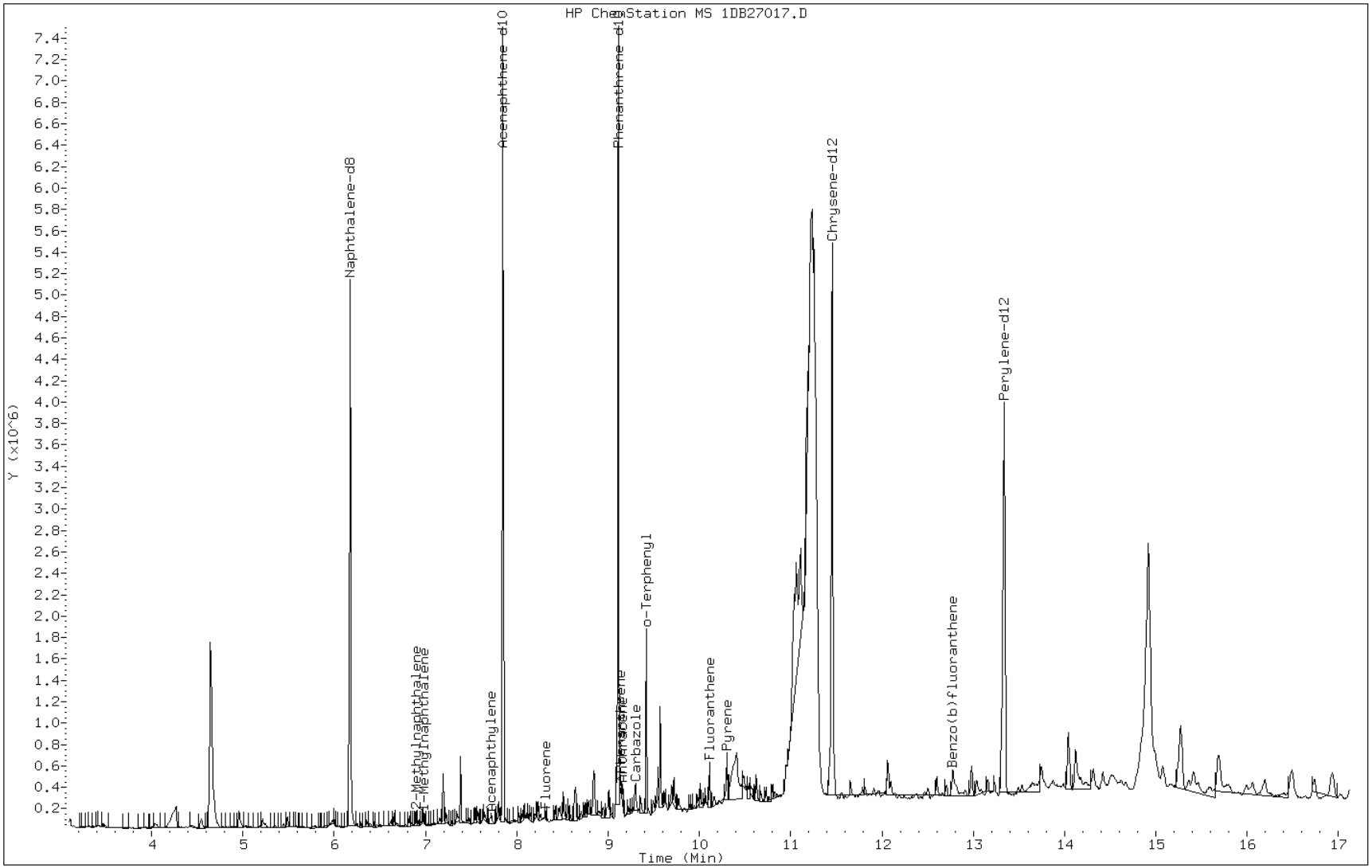
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1DB27017.D

Date: 27-FEB-2013 17:50

Client ID: FM0161ABB-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-55-A Operator: SCC



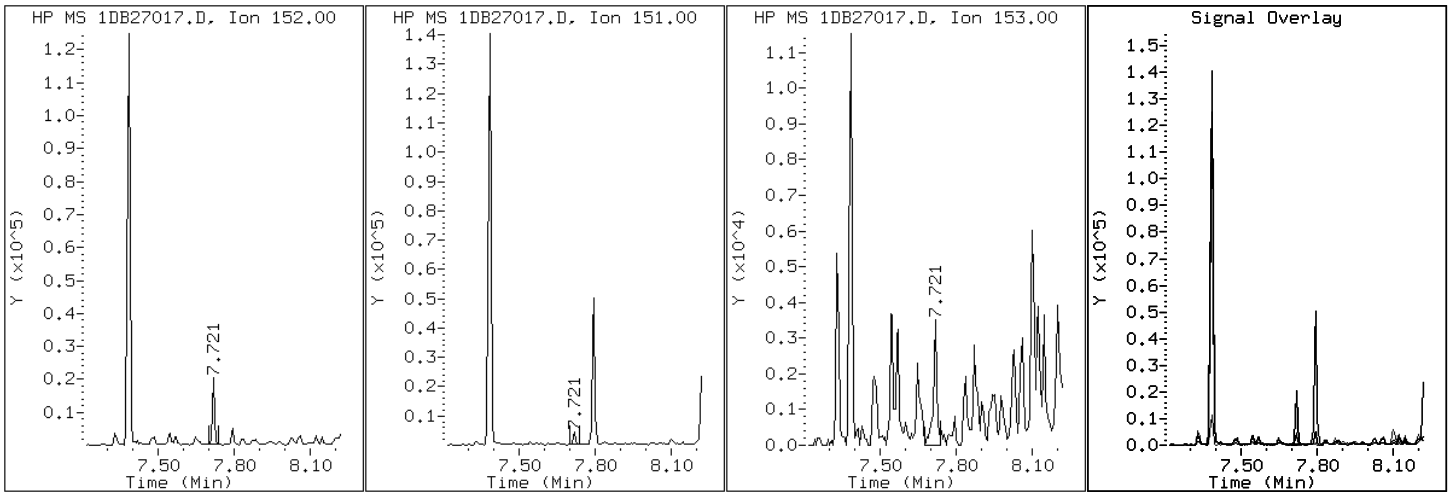
Data File: 1DB27017.D

Date: 27-FEB-2013 17:50

Client ID: FM0161ABB-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-55-A Operator: SCC

5 Acenaphthylene



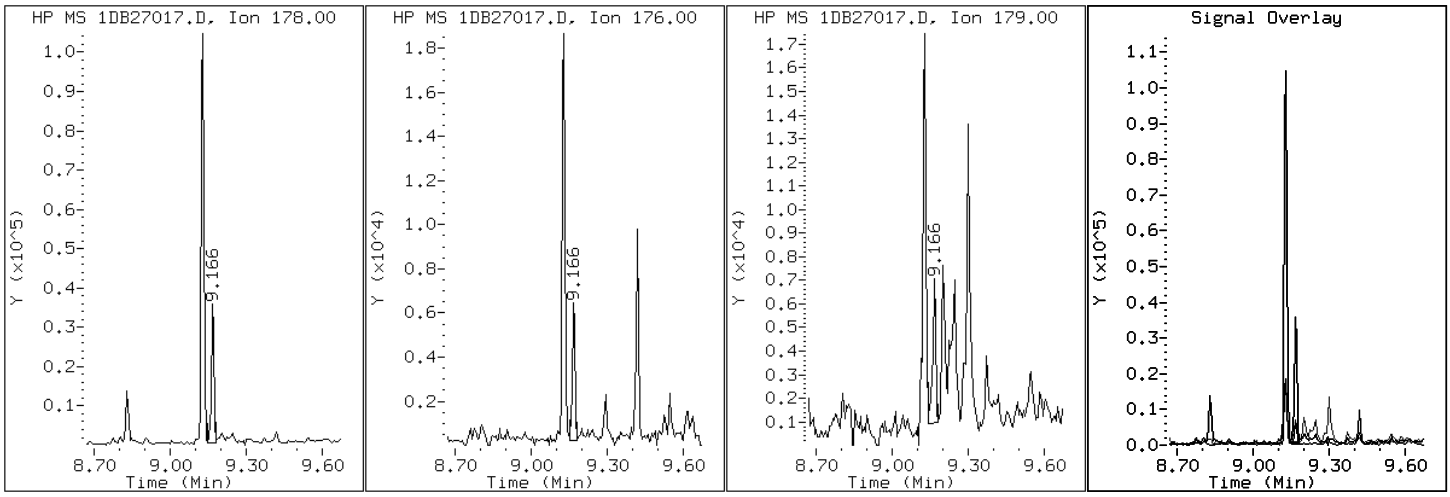
Data File: 1DB27017.D

Date: 27-FEB-2013 17:50

Client ID: FM0161ABB-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-55-A Operator: SCC

11 Anthracene



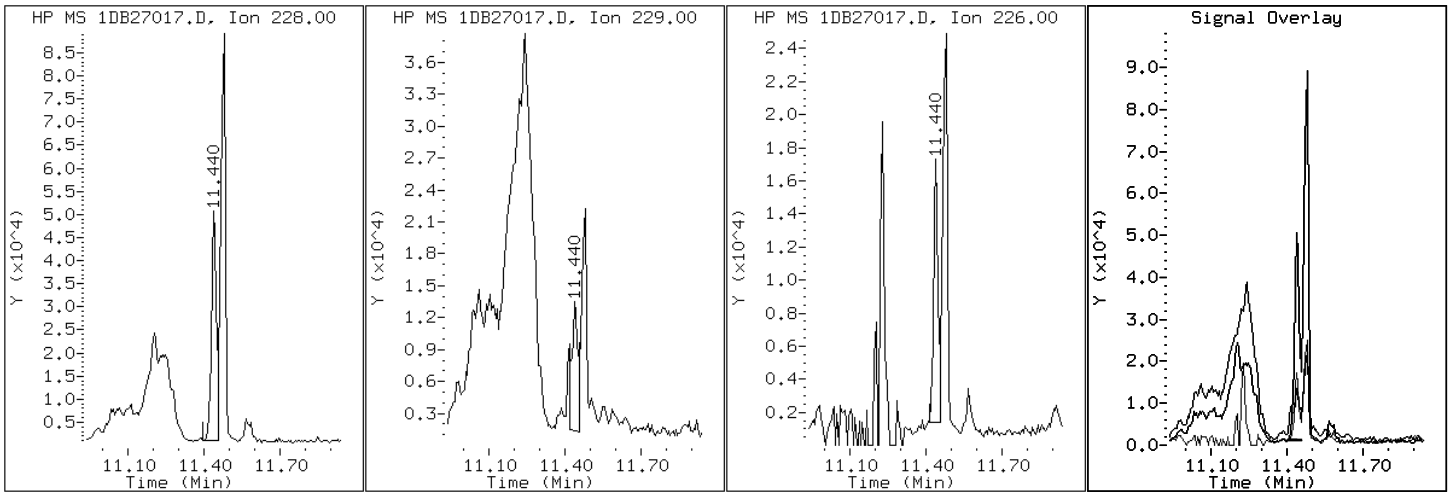
Data File: 1DB27017.D

Date: 27-FEB-2013 17:50

Client ID: FM0161ABB-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-55-A Operator: SCC

16 Benzo(a)anthracene



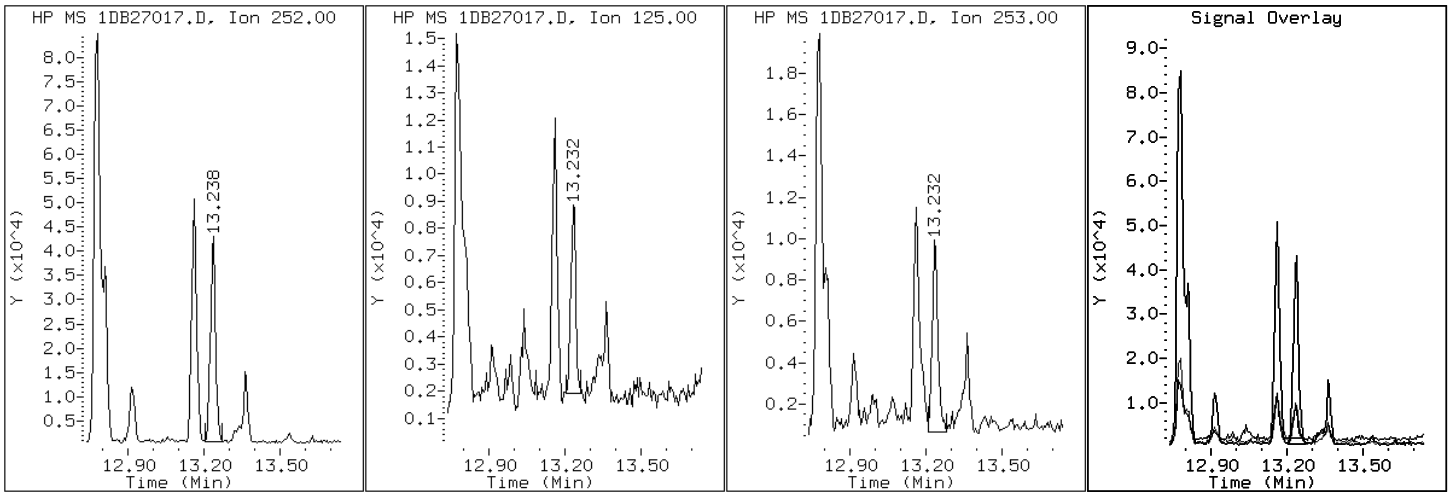
Data File: 1DB27017.D

Date: 27-FEB-2013 17:50

Client ID: FM0161ABB-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-55-A Operator: SCC

21 Benzo(a)pyrene



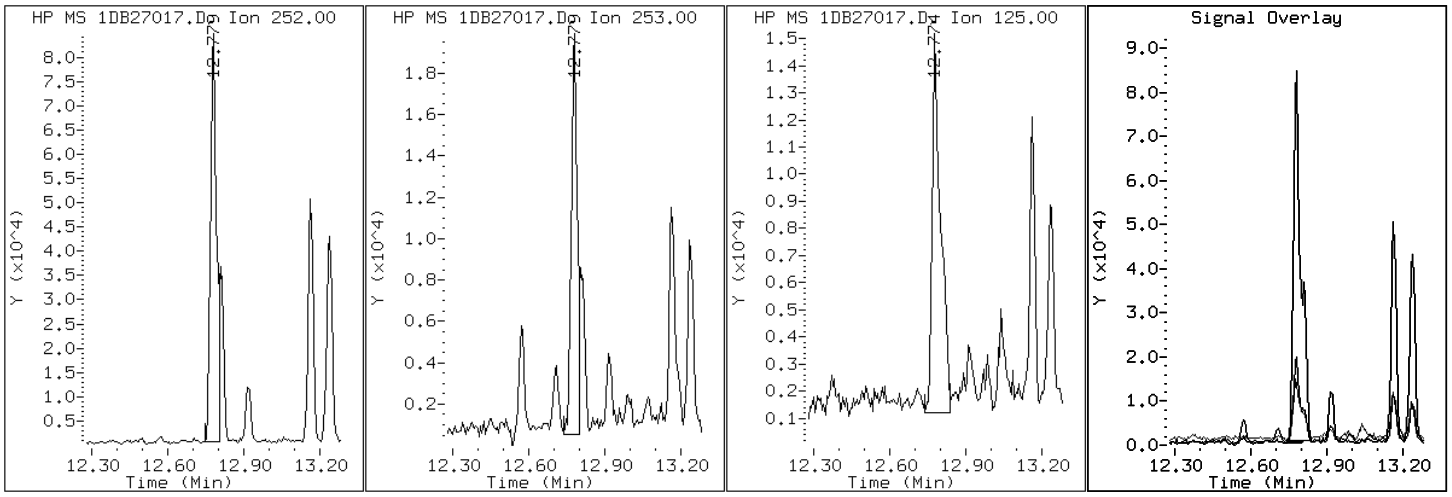
Data File: 1DB27017.D

Date: 27-FEB-2013 17:50

Client ID: FM0161ABB-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-55-A Operator: SCC

19 Benzo(b)fluoranthene



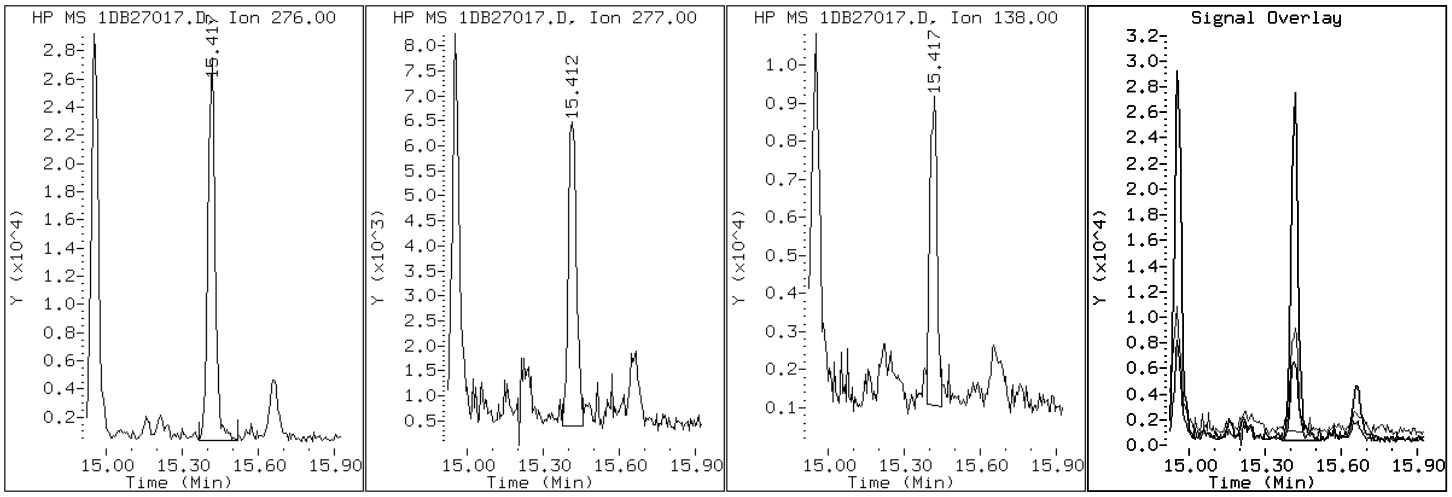
Data File: 1DB27017.D

Date: 27-FEB-2013 17:50

Client ID: FM0161ABB-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-55-A Operator: SCC

25 Benzo(g,h,i)perylene



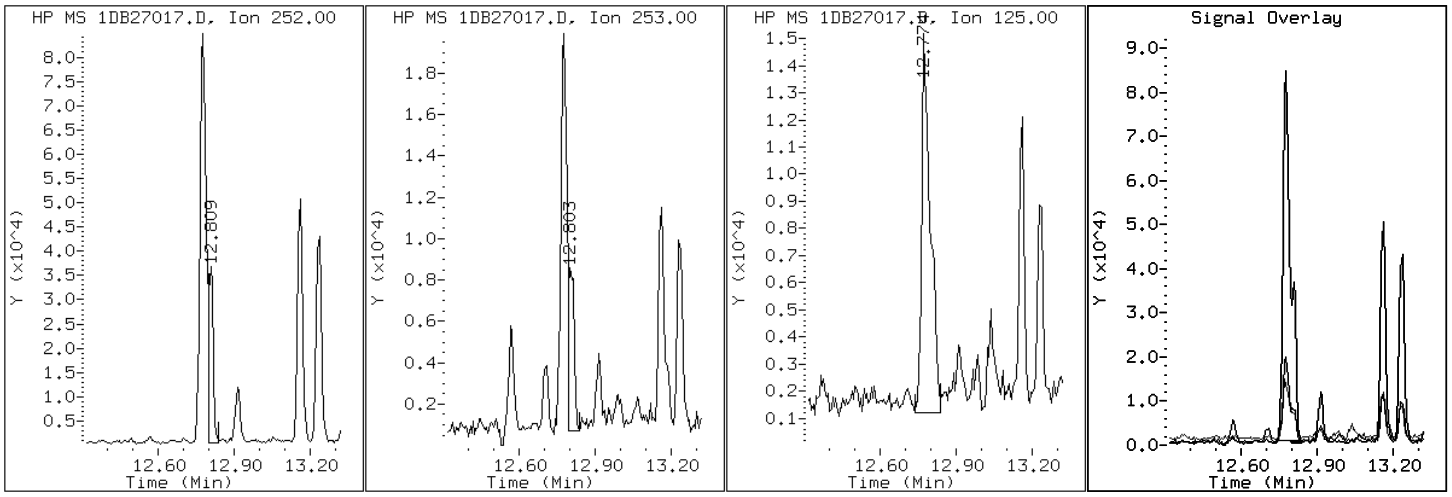
Data File: 1DB27017.D

Date: 27-FEB-2013 17:50

Client ID: FM0161ABB-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-55-A Operator: SCC

20 Benzo(k)fluoranthene



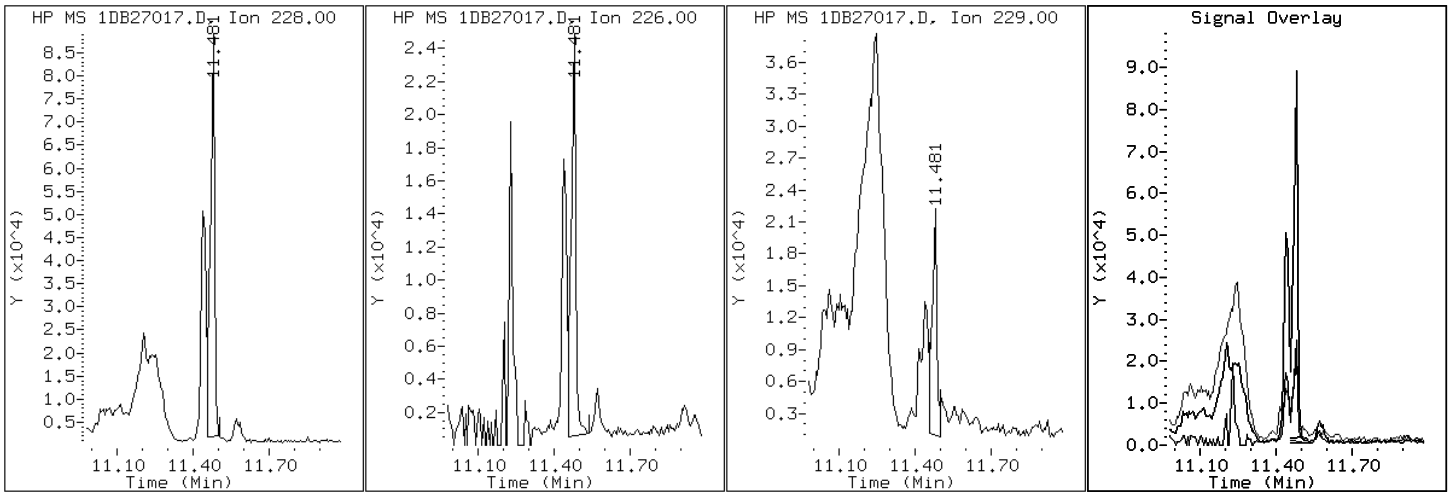
Data File: 1DB27017.D

Date: 27-FEB-2013 17:50

Client ID: FM0161ABB-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-55-A Operator: SCC

18 Chrysene



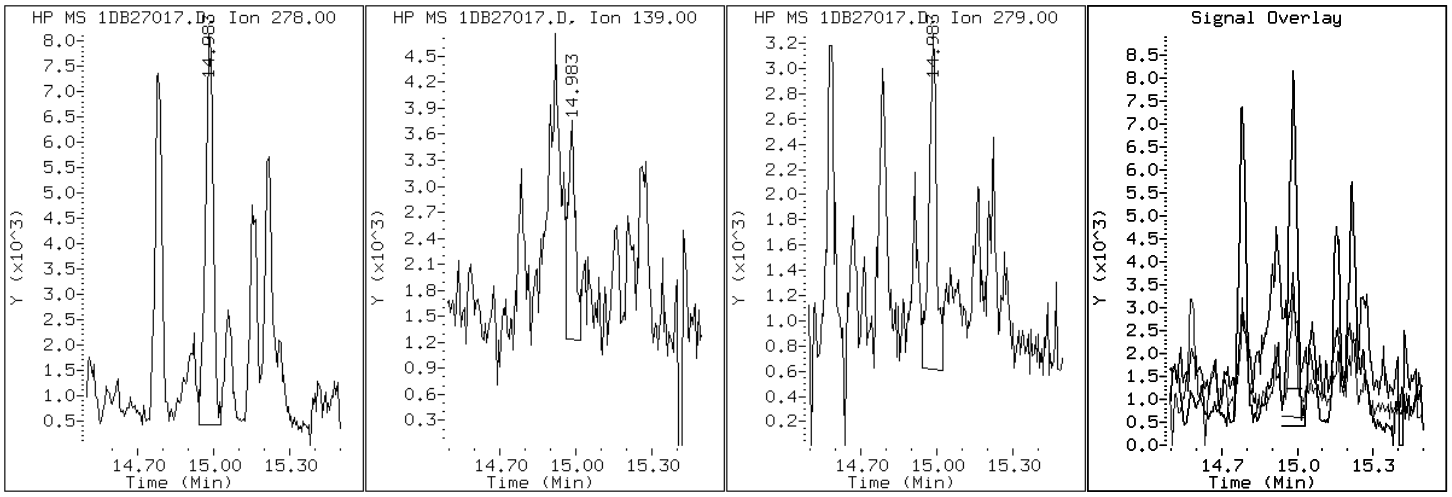
Data File: 1DB27017.D

Date: 27-FEB-2013 17:50

Client ID: FM0161ABB-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-55-A Operator: SCC

24 Dibenzo(a,h)anthracene



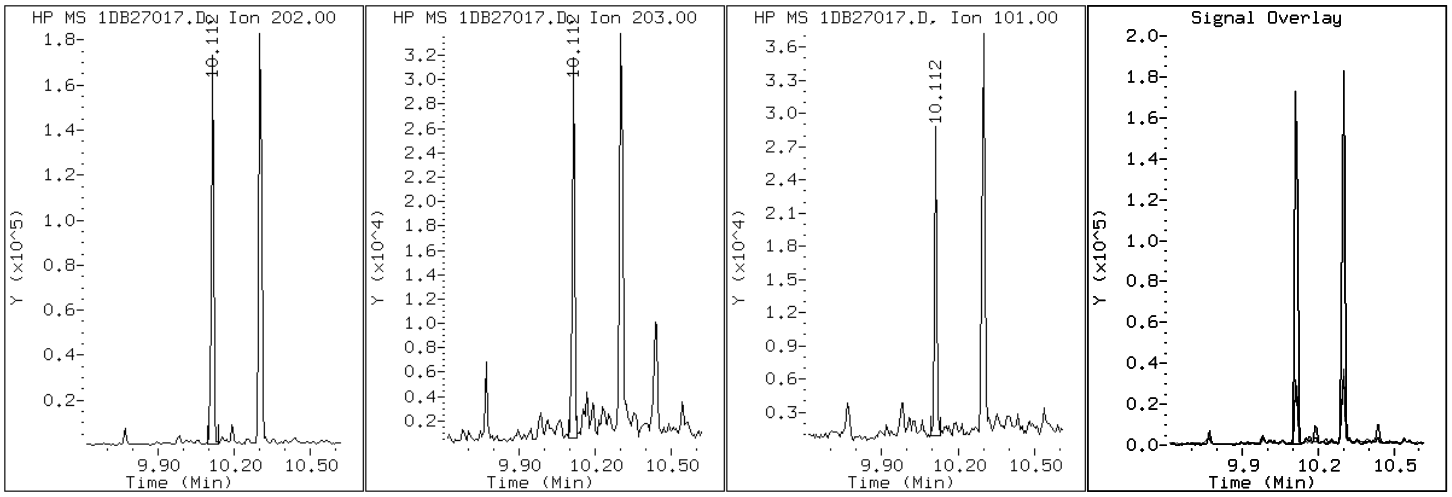
Data File: 1DB27017.D

Date: 27-FEB-2013 17:50

Client ID: FM0161ABB-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-55-A Operator: SCC

14 Fluoranthene



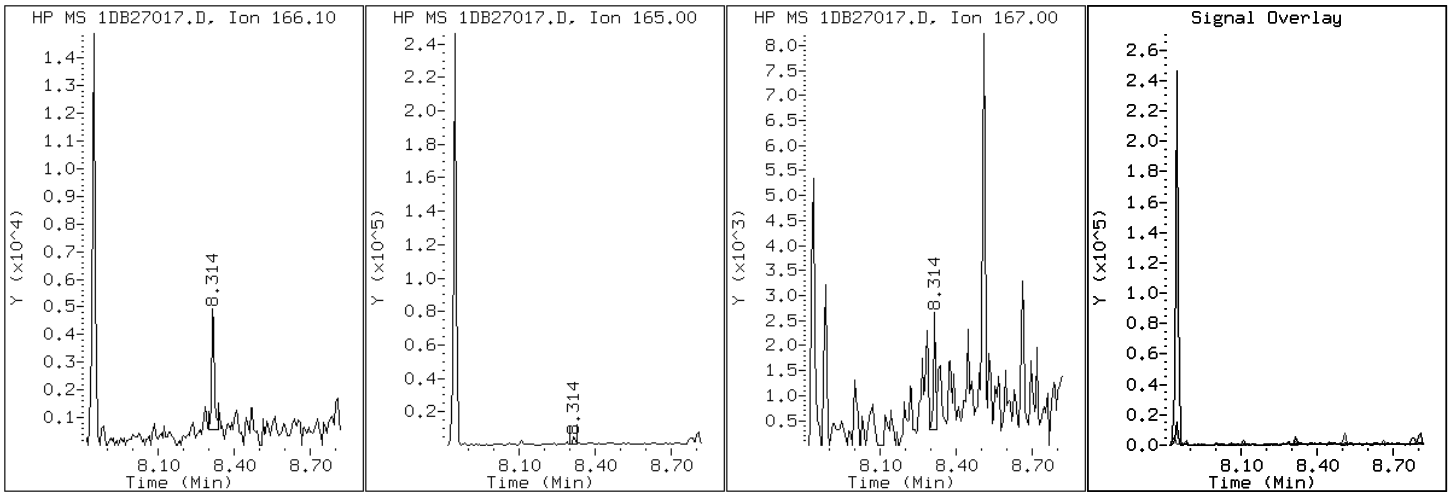
Data File: 1DB27017.D

Date: 27-FEB-2013 17:50

Client ID: FM0161ABB-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-55-A Operator: SCC

8 Fluorene



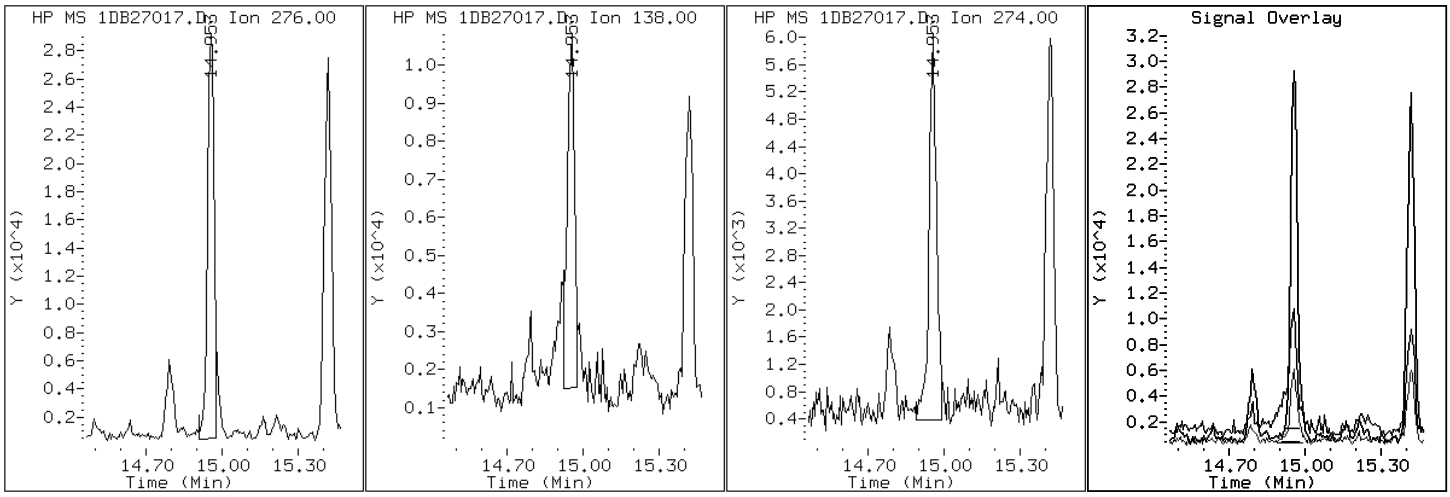
Data File: 1DB27017.D

Date: 27-FEB-2013 17:50

Client ID: FM0161ABB-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-55-A Operator: SCC

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



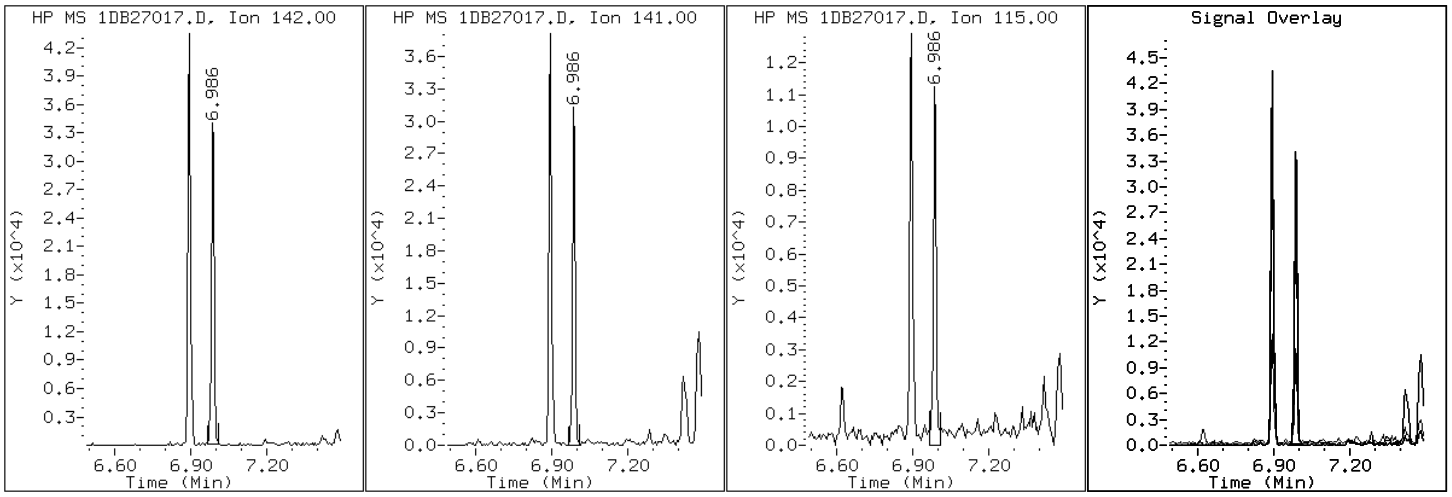
Data File: 1DB27017.D

Date: 27-FEB-2013 17:50

Client ID: FM0161ABB-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-55-A Operator: SCC

4 1-Methylnaphthalene



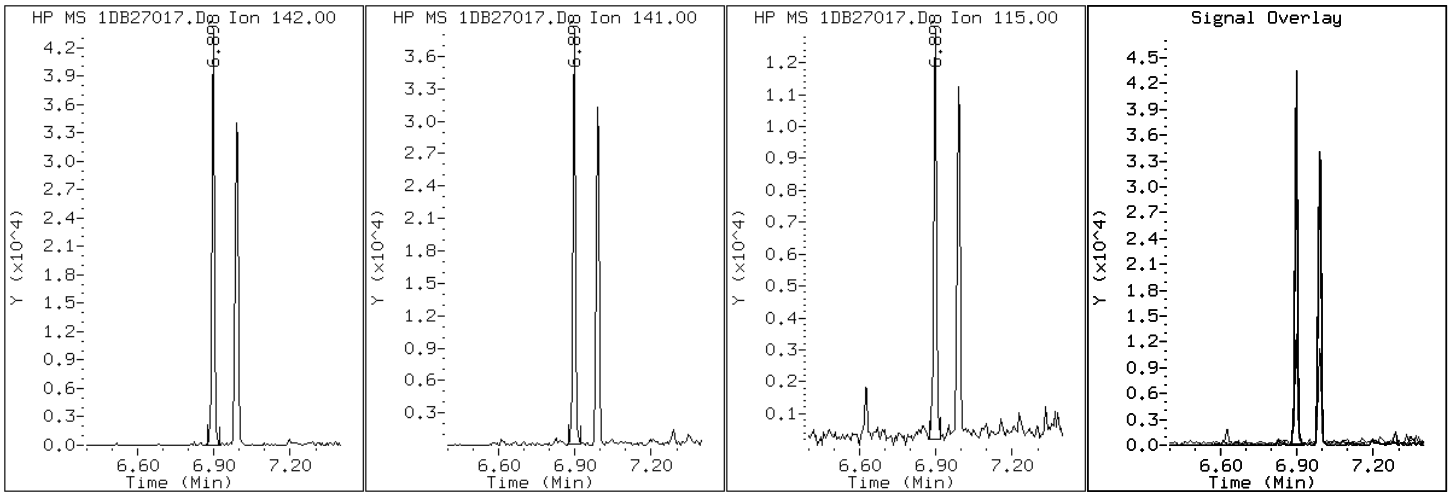
Data File: 1DB27017.D

Date: 27-FEB-2013 17:50

Client ID: FM0161ABB-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-55-A Operator: SCC

3 2-Methylnaphthalene



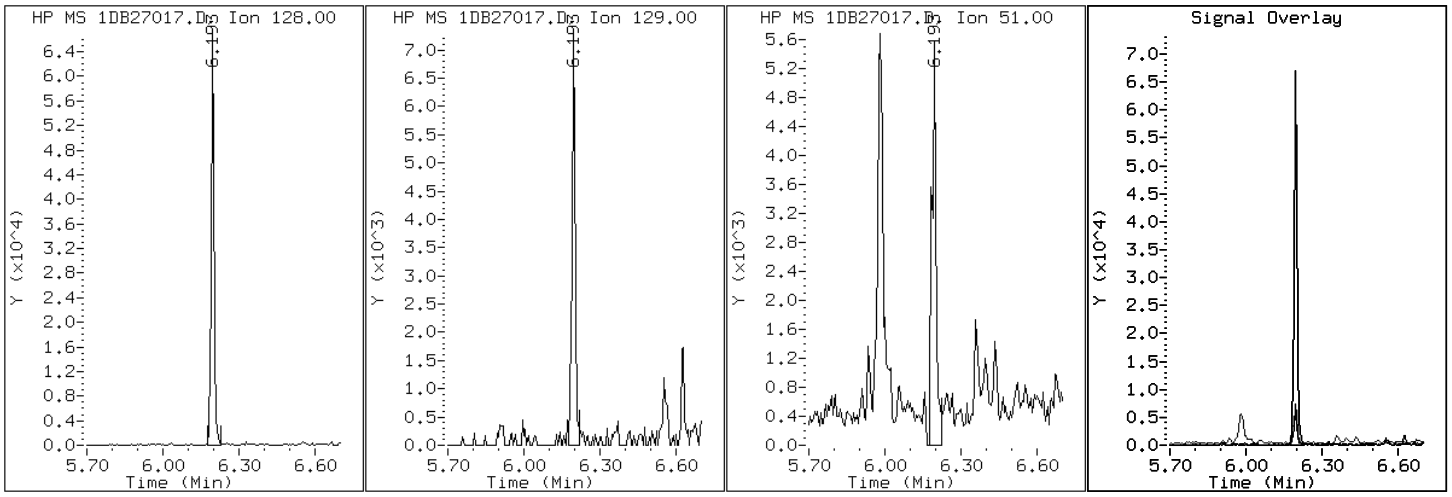
Data File: 1DB27017.D

Date: 27-FEB-2013 17:50

Client ID: FM0161ABB-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-55-A Operator: SCC

2 Naphthalene



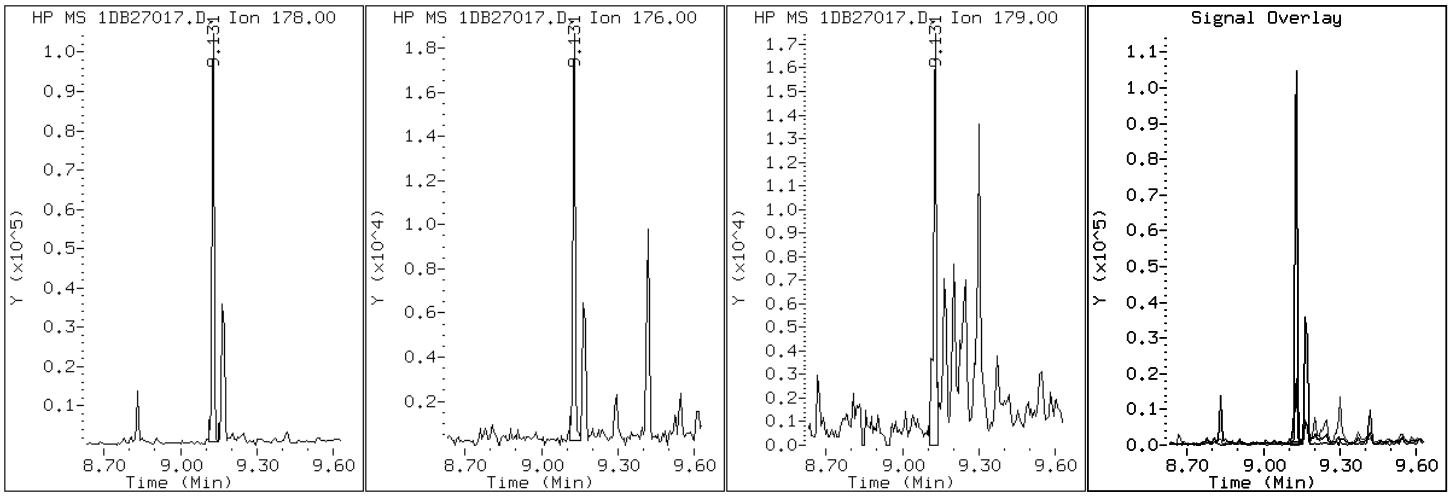
Data File: 1DB27017.D

Date: 27-FEB-2013 17:50

Client ID: FM0161ABB-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-55-A Operator: SCC

10 Phenanthrene



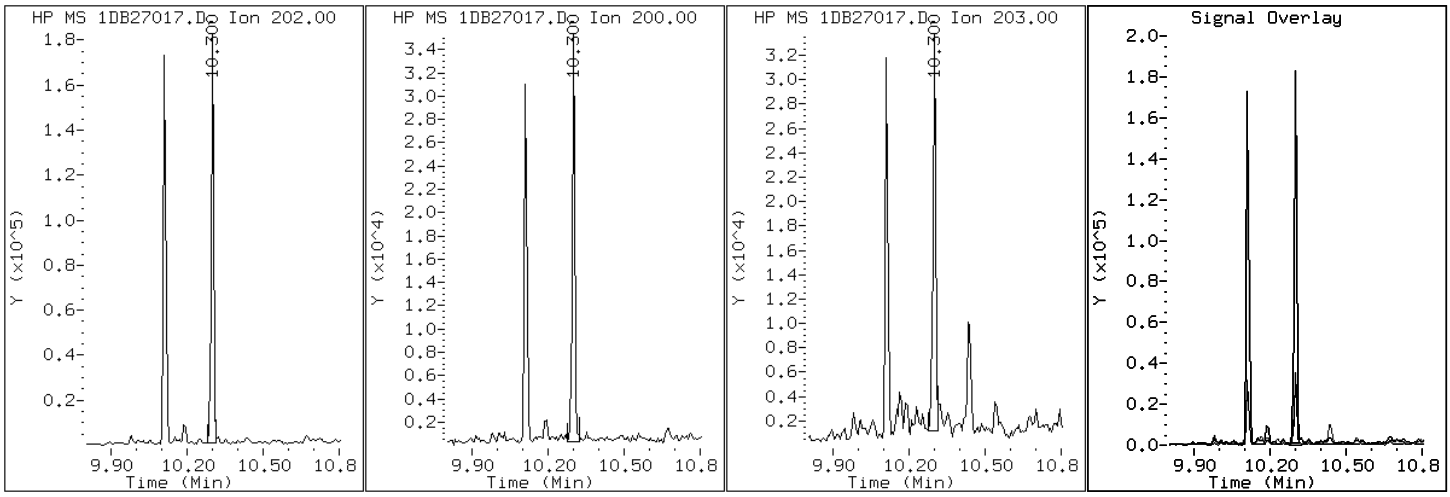
Data File: 1DB27017.D

Date: 27-FEB-2013 17:50

Client ID: FM0161ABB-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-55-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB27017.D
Inj. Date and Time: 27-FEB-2013 17:50
Instrument ID: BSMSD.i
Client ID: FM0161ABB-GS
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/01/2013

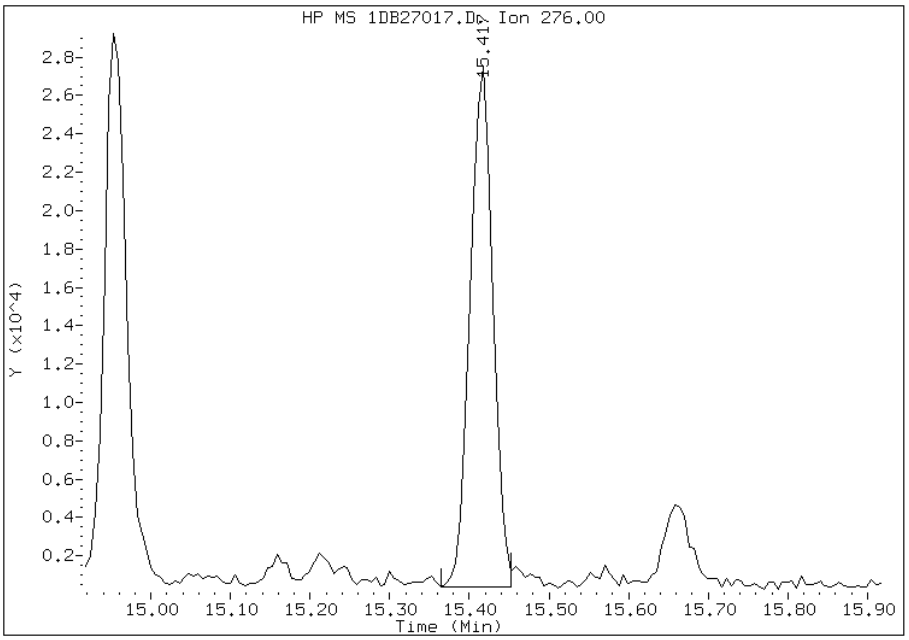
Processing Integration Results

RT: 15.42

Response: 53977

Amount: 1

Conc: 91



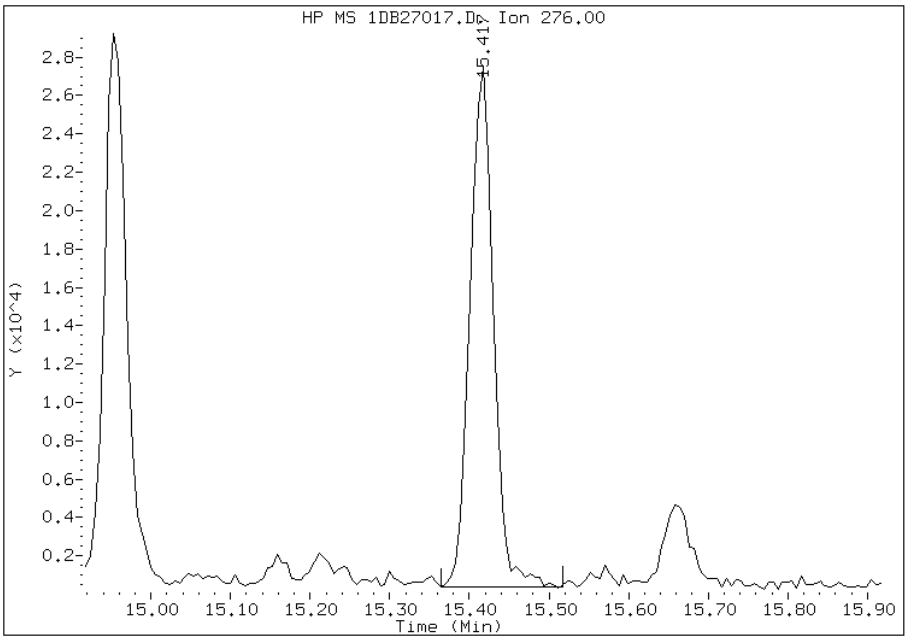
Manual Integration Results

RT: 15.42

Response: 55625

Amount: 1

Conc: 94



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DB27017.D
Inj. Date and Time: 27-FEB-2013 17:50
Instrument ID: BSMSD.i
Client ID: FM0161ABB-GS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/01/2013

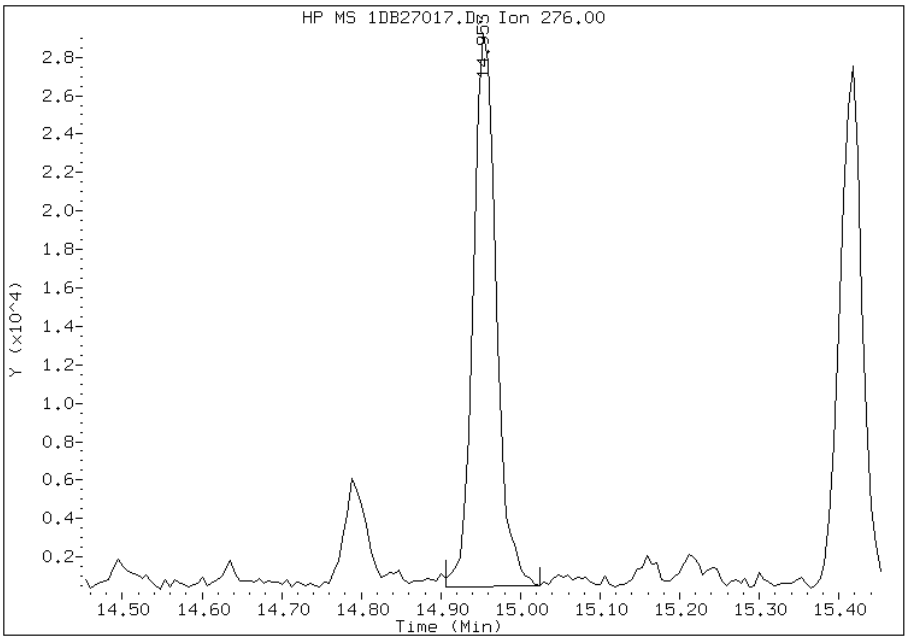
Processing Integration Results

RT: 14.95

Response: 57632

Amount: 1

Conc: 92



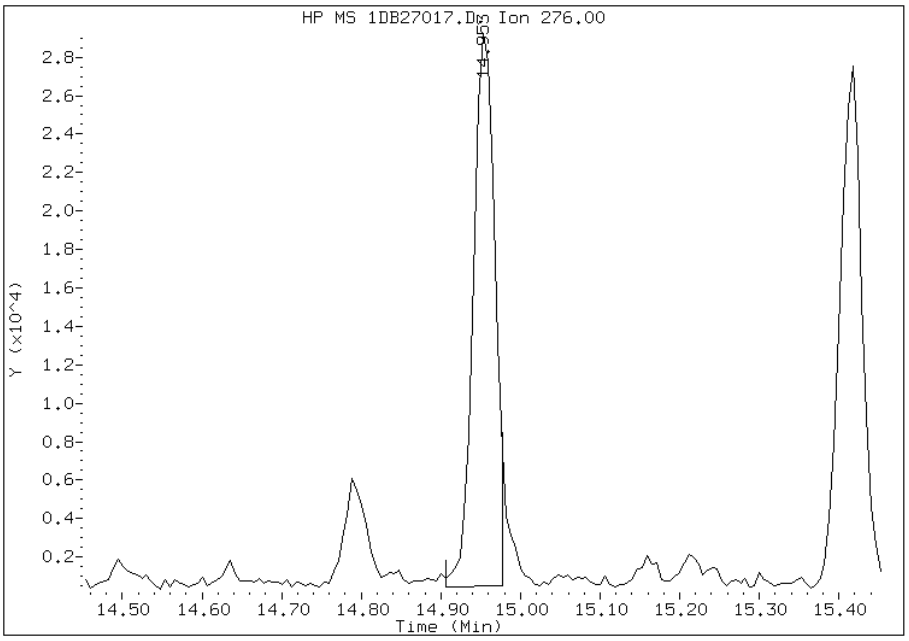
Manual Integration Results

RT: 14.95

Response: 54101

Amount: 1

Conc: 87



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:55
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87655-3

SDG No.: 68087655-3

Client Sample ID: FM0161ACC-GS | Lab Sample ID: 680-87655-56

Matrix: Solid | Lab File ID: 1DB27018.D

Analysis Method: 8270C LL | Date Collected: 02/19/2013 13:49

Extract. Method: 3546 | Date Extracted: 02/25/2013 14:06

Sample wt/vol: 15.08(g) | Date Analyzed: 02/27/2013 18:13

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

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

% Moisture: 26.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134905 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	27
208-96-8	Acenaphthylene	54	U	54	6.8
120-12-7	Anthracene	6.8	J	11	5.7
56-55-3	Benzo[a]anthracene	26		11	5.3
50-32-8	Benzo[a]pyrene	20		14	7.0
205-99-2	Benzo[b]fluoranthene	33		17	8.3
191-24-2	Benzo[g,h,i]perylene	20	J	27	6.0
207-08-9	Benzo[k]fluoranthene	11		11	4.9
218-01-9	Chrysene	32		12	6.1
53-70-3	Dibenz(a,h)anthracene	27	U	27	5.5
206-44-0	Fluoranthene	41		27	5.4
86-73-7	Fluorene	27	U	27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	14	J	27	9.6
90-12-0	1-Methylnaphthalene	12	J	54	6.0
91-57-6	2-Methylnaphthalene	15	J	54	9.6
91-20-3	Naphthalene	21	J	54	6.0
85-01-8	Phenanthrene	35		11	5.3
129-00-0	Pyrene	35		27	5.0

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

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022713.b\1DB27018.D
Lab Smp Id: 680-87655-A-56-A Client Smp ID: FM0161ACC-GS
Inj Date : 27-FEB-2013 18:13
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87655-A-56-A
Misc Info : 680-87655-A-56-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D022713.b\dFASTPAHi.m
Meth Date : 27-Feb-2013 14:11 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.080	Weight Extracted
M	26.477	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.175	6.174	(1.000)	2559655	40.0000	
* 6 Acenaphthene-d10	164	7.850	7.848	(1.000)	1506111	40.0000	
* 9 Phenanthrene-d10	188	9.113	9.111	(1.000)	2363450	40.0000	
$ 13 o-Terphenyl	230	9.418	9.417	(1.034)	261634	7.15856	640
* 17 Chrysene-d12	240	11.457	11.456	(1.000)	2278392	40.0000	
* 22 Perylene-d12	264	13.337	13.330	(1.000)	2364684	40.0000	
2 Naphthalene	128	6.193	6.197	(1.003)	15639	0.22840	21
3 2-Methylnaphthalene	142	6.898	6.896	(1.117)	7446	0.17071	15
4 1-Methylnaphthalene	142	6.986	6.990	(1.131)	5509	0.13488	12
8 Fluorene	166	8.314	8.318	(1.059)	1864	0.03941	3.6
10 Phenanthrene	178	9.130	9.129	(1.002)	26034	0.38804	35
11 Anthracene	178	9.166	9.170	(1.006)	5055	0.07531	6.8
12 Carbazole	167	9.307	9.305	(1.021)	2972	0.04953	4.5(Q)
14 Fluoranthene	202	10.112	10.116	(1.110)	32098	0.45845	41

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
15 Pyrene	202	10.300	10.304	(0.899)	27349	0.38698	35
16 Benzo(a)anthracene	228	11.439	11.438	(0.998)	17689	0.28358	26
18 Chrysene	228	11.481	11.479	(1.002)	22847	0.35478	32
19 Benzo(b)fluoranthene	252	12.767	12.778	(0.957)	22494	0.36956	33
20 Benzo(k)fluoranthene	252	12.803	12.819	(0.960)	7551	0.11849	11
21 Benzo(a)pyrene	252	13.232	13.236	(0.992)	13301	0.22083	20
23 Indeno(1,2,3-cd)pyrene	276	14.953	14.963	(1.121)	9863	0.15344	14(M)
24 Dibenzo(a,h)anthracene	278	14.971	14.999	(1.122)	3152	0.05310	4.8(H)
25 Benzo(g,h,i)perylene	276	15.405	15.422	(1.155)	13731	0.22405	20(M)

QC Flag Legend

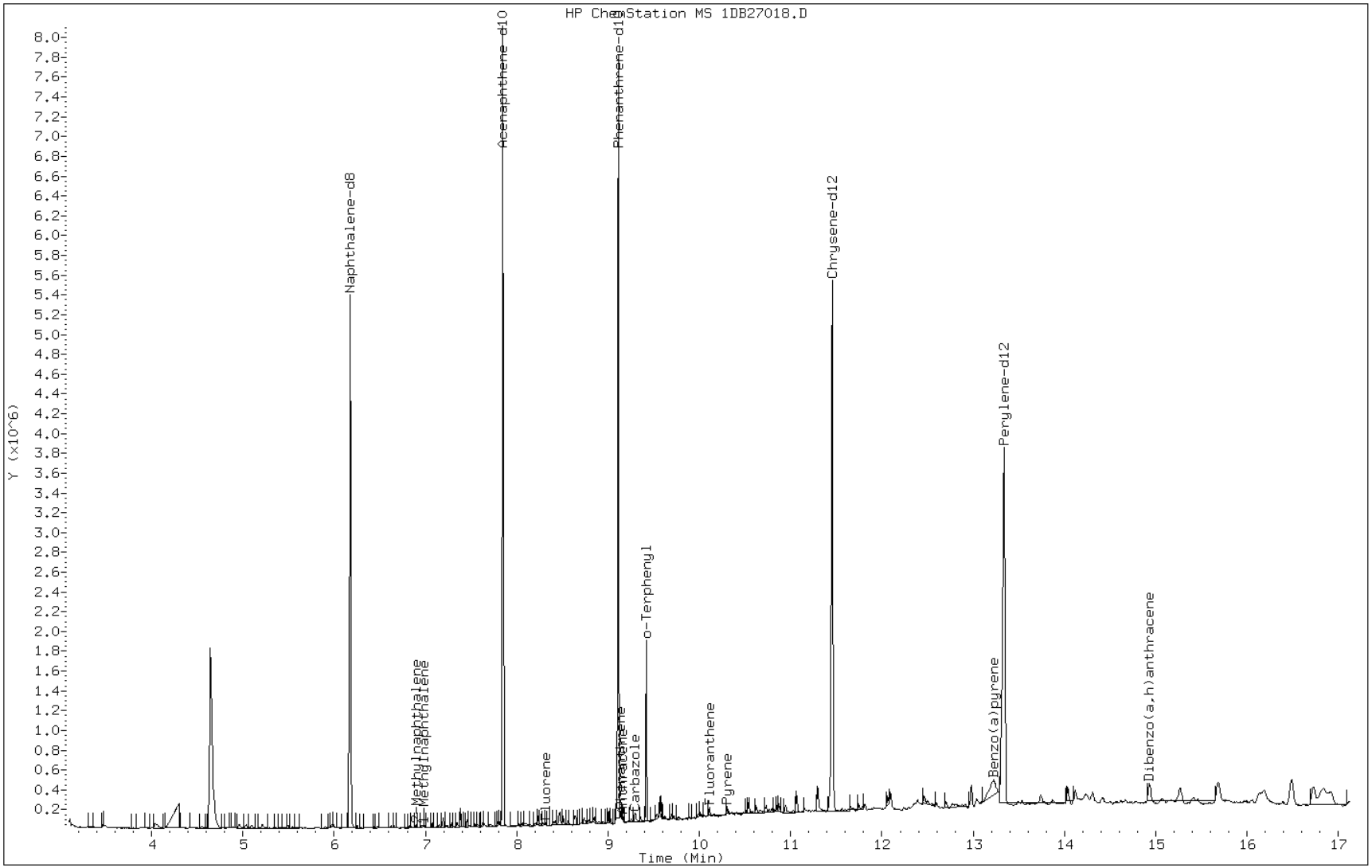
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB27018.D

Date: 27-FEB-2013 18:13

Client ID: FM0161ACC-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-56-A Operator: SCC



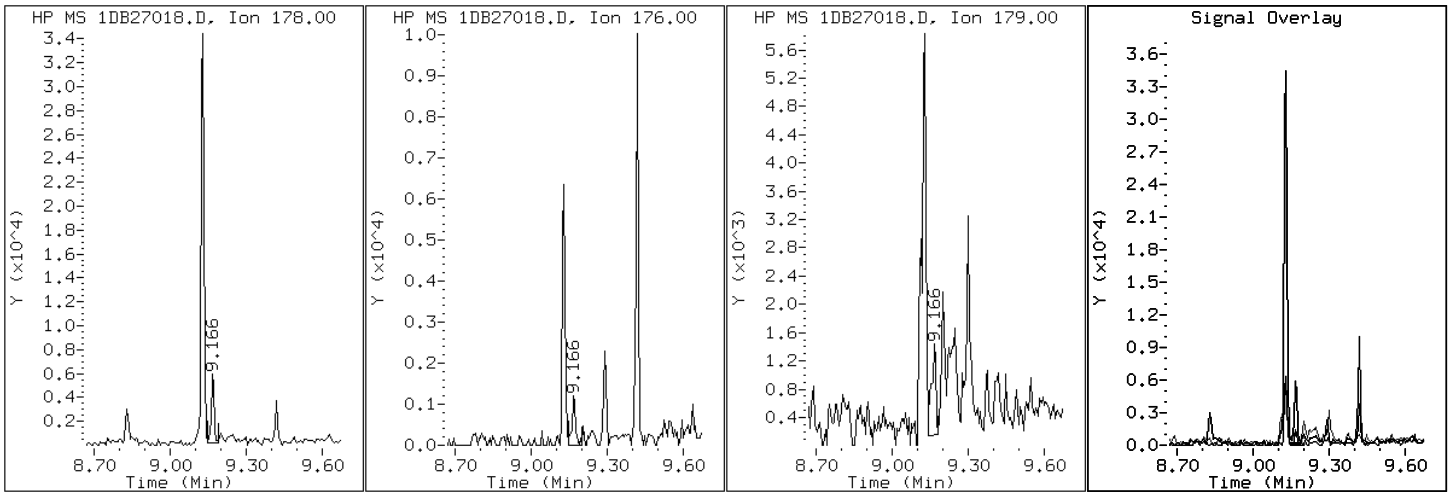
Data File: 1DB27018.D

Date: 27-FEB-2013 18:13

Client ID: FM0161ACC-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-56-A Operator: SCC

11 Anthracene



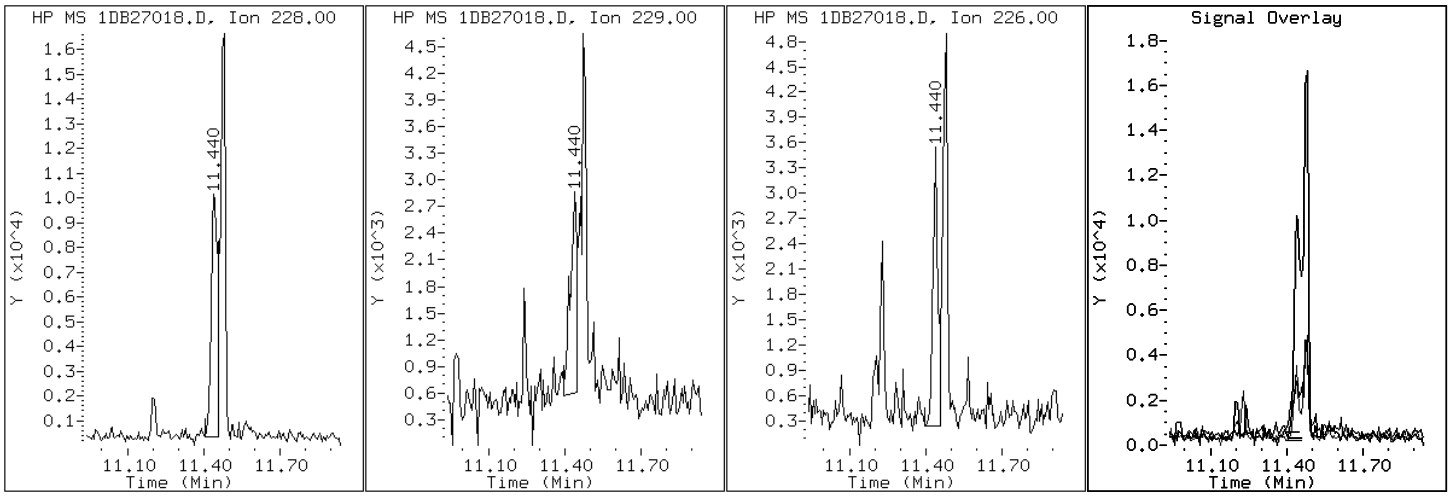
Data File: 1DB27018.D

Date: 27-FEB-2013 18:13

Client ID: FM0161ACC-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-56-A Operator: SCC

16 Benzo(a)anthracene



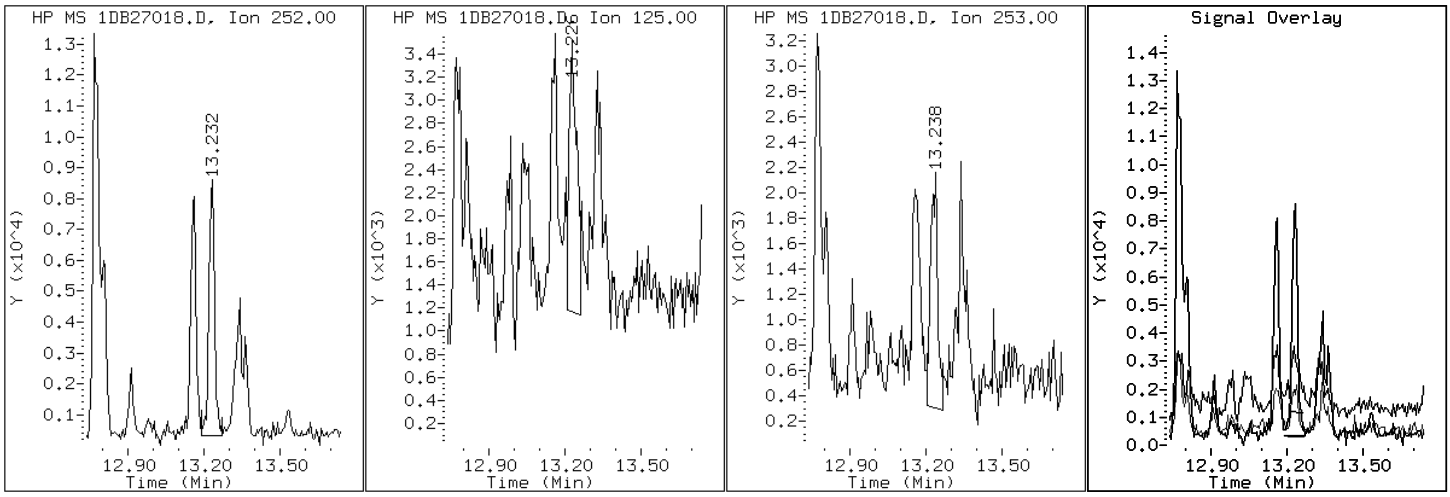
Data File: 1DB27018.D

Date: 27-FEB-2013 18:13

Client ID: FM0161ACC-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-56-A Operator: SCC

21 Benzo(a)pyrene



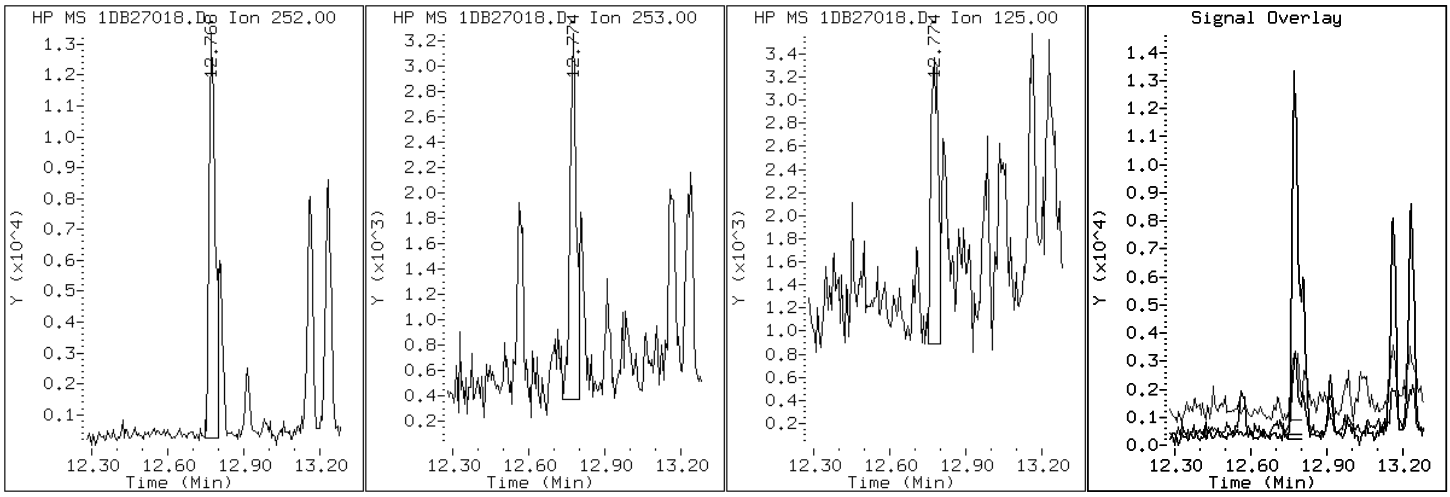
Data File: 1DB27018.D

Date: 27-FEB-2013 18:13

Client ID: FM0161ACC-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-56-A Operator: SCC

19 Benzo(b)fluoranthene



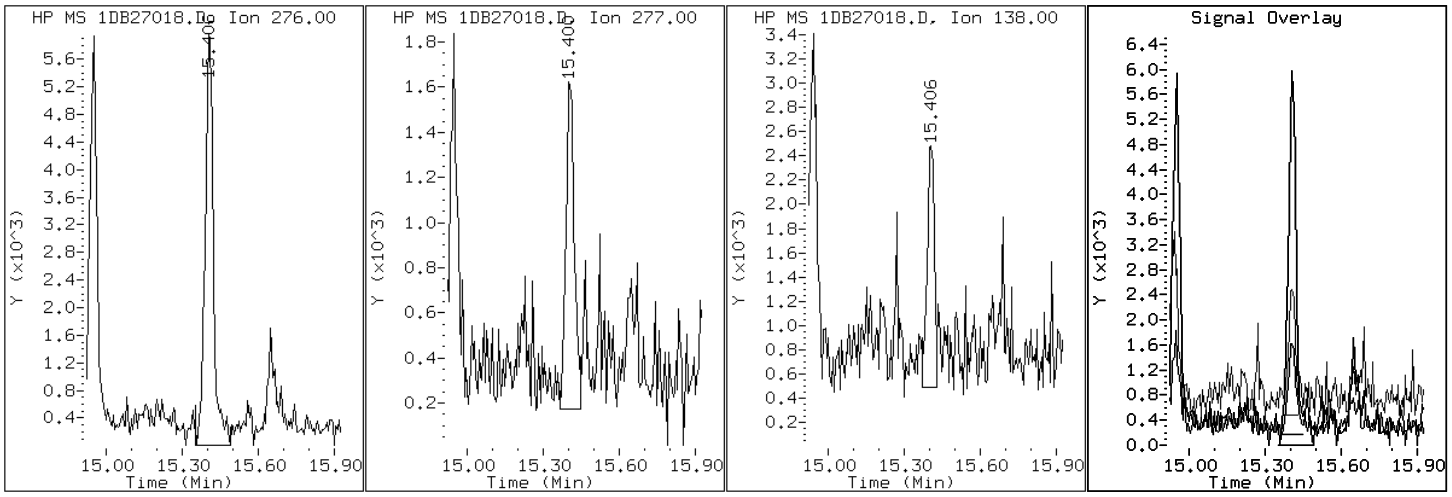
Data File: 1DB27018.D

Date: 27-FEB-2013 18:13

Client ID: FM0161ACC-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-56-A Operator: SCC

25 Benzo(g,h,i)perylene



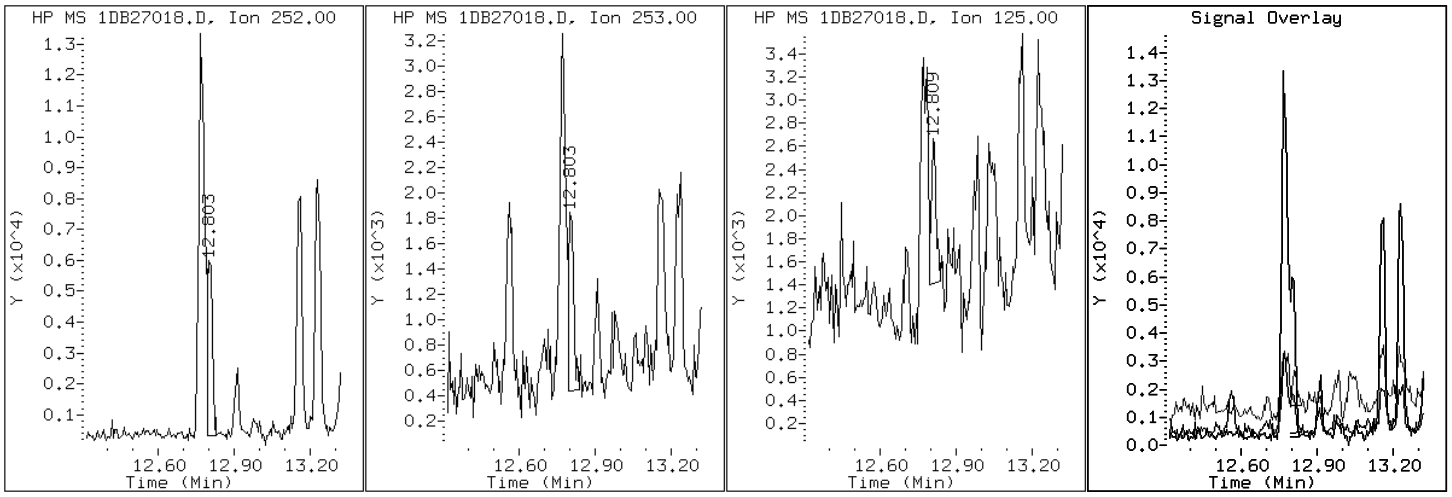
Data File: 1DB27018.D

Date: 27-FEB-2013 18:13

Client ID: FM0161ACC-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-56-A Operator: SCC

20 Benzo(k)fluoranthene



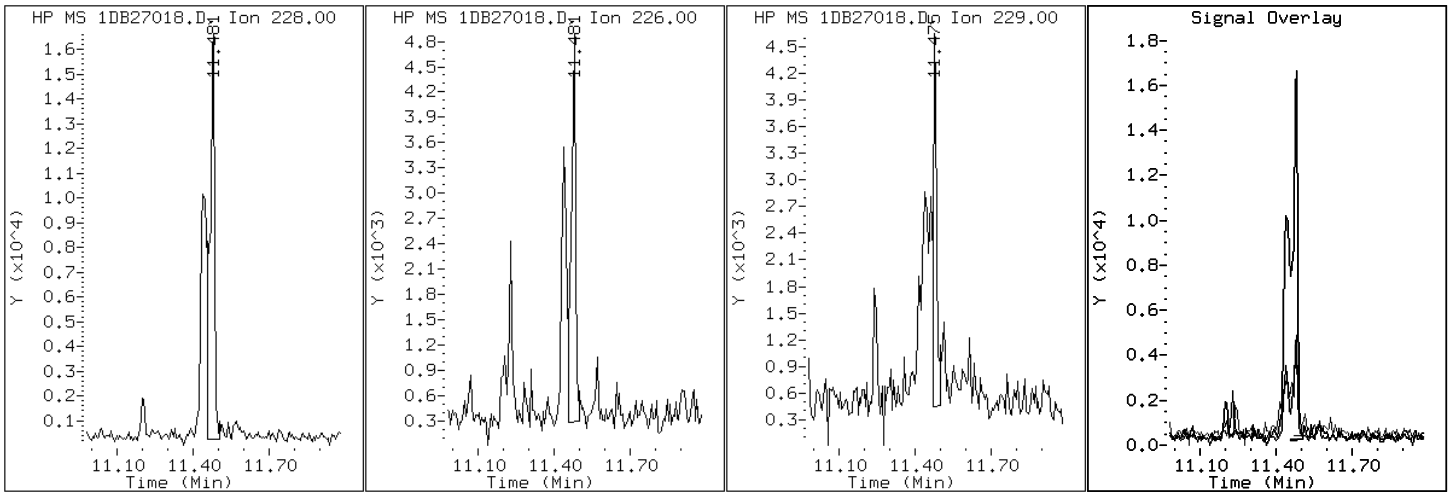
Data File: 1DB27018.D

Date: 27-FEB-2013 18:13

Client ID: FM0161ACC-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-56-A Operator: SCC

18 Chrysene



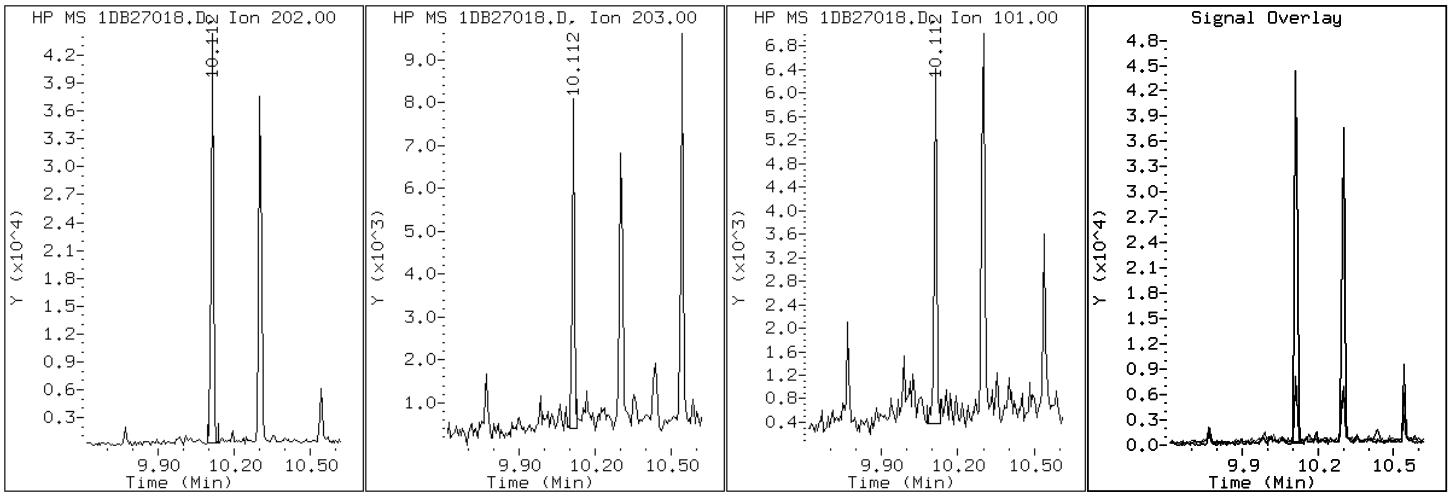
Data File: 1DB27018.D

Date: 27-FEB-2013 18:13

Client ID: FM0161ACC-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-56-A Operator: SCC

14 Fluoranthene



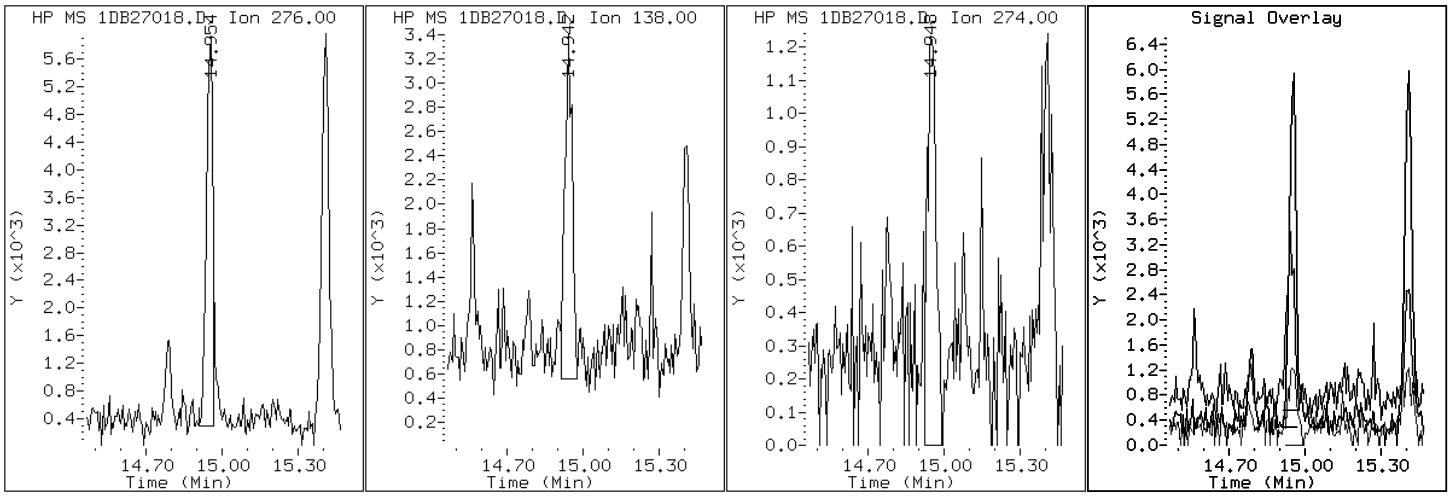
Data File: 1DB27018.D

Date: 27-FEB-2013 18:13

Client ID: FM0161ACC-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-56-A Operator: SCC

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



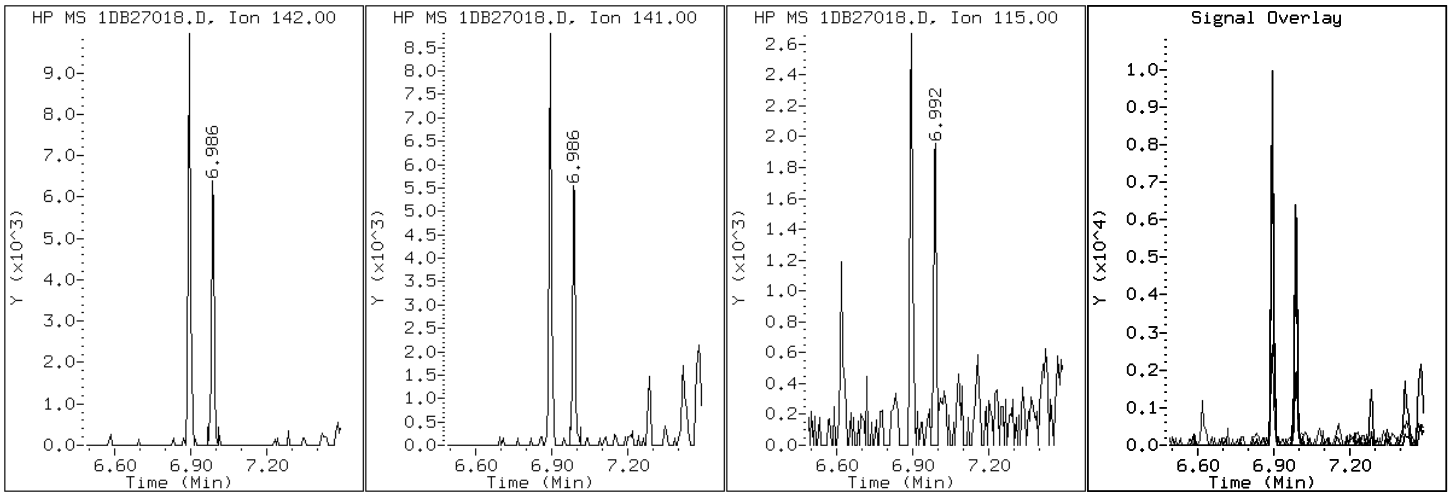
Data File: 1DB27018.D

Date: 27-FEB-2013 18:13

Client ID: FM0161ACC-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-56-A Operator: SCC

4 1-Methylnaphthalene



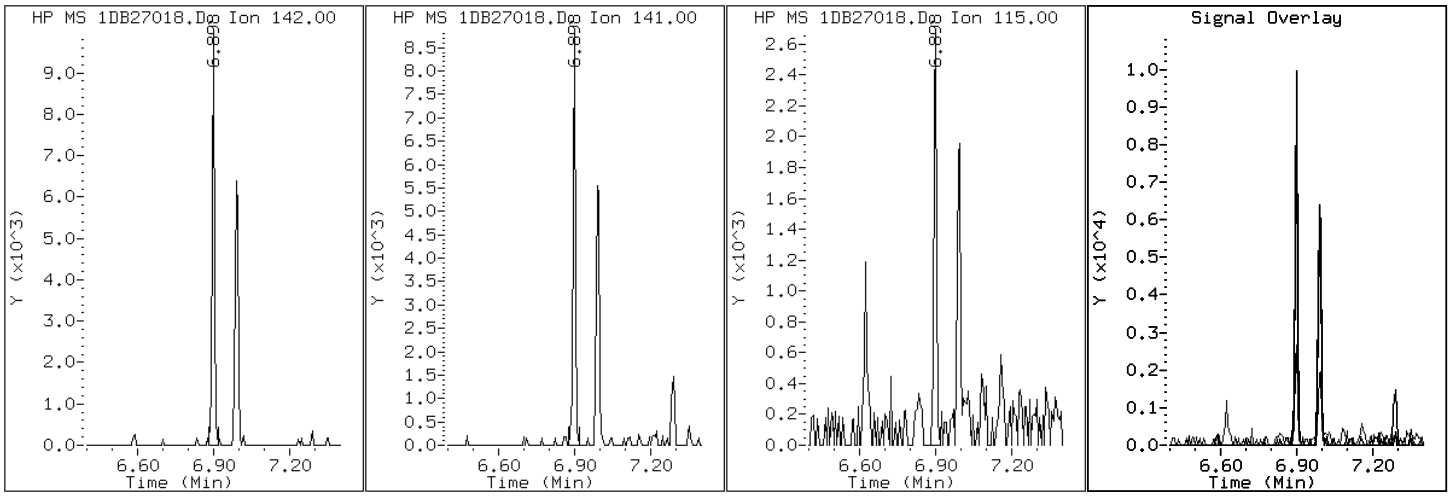
Data File: 1DB27018.D

Date: 27-FEB-2013 18:13

Client ID: FM0161ACC-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-56-A Operator: SCC

3 2-Methylnaphthalene



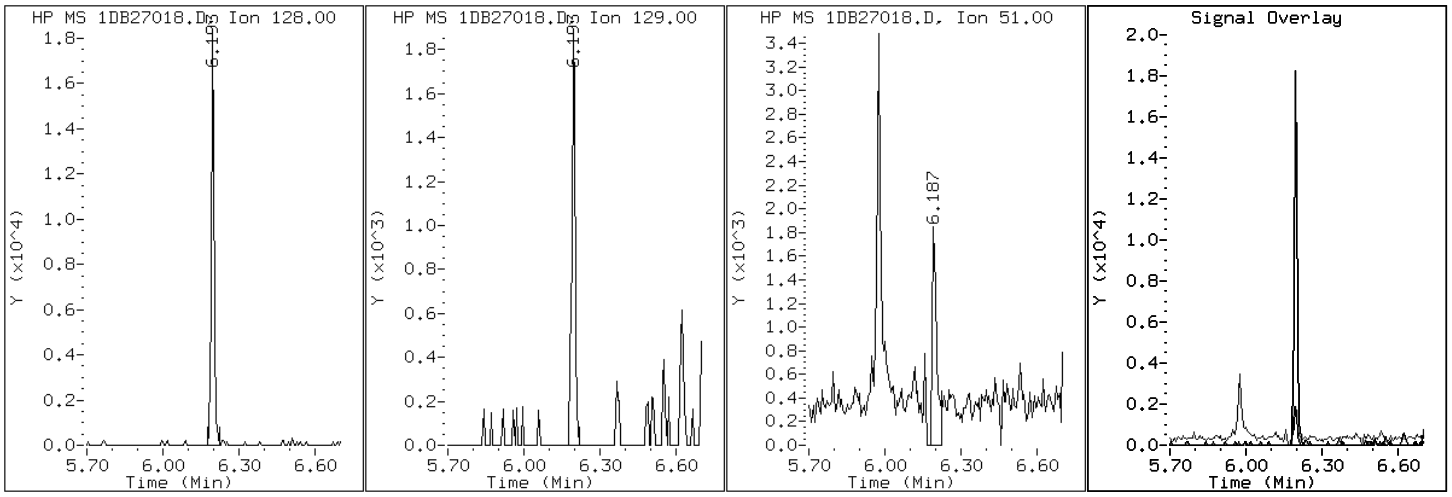
Data File: 1DB27018.D

Date: 27-FEB-2013 18:13

Client ID: FM0161ACC-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-56-A Operator: SCC

2 Naphthalene



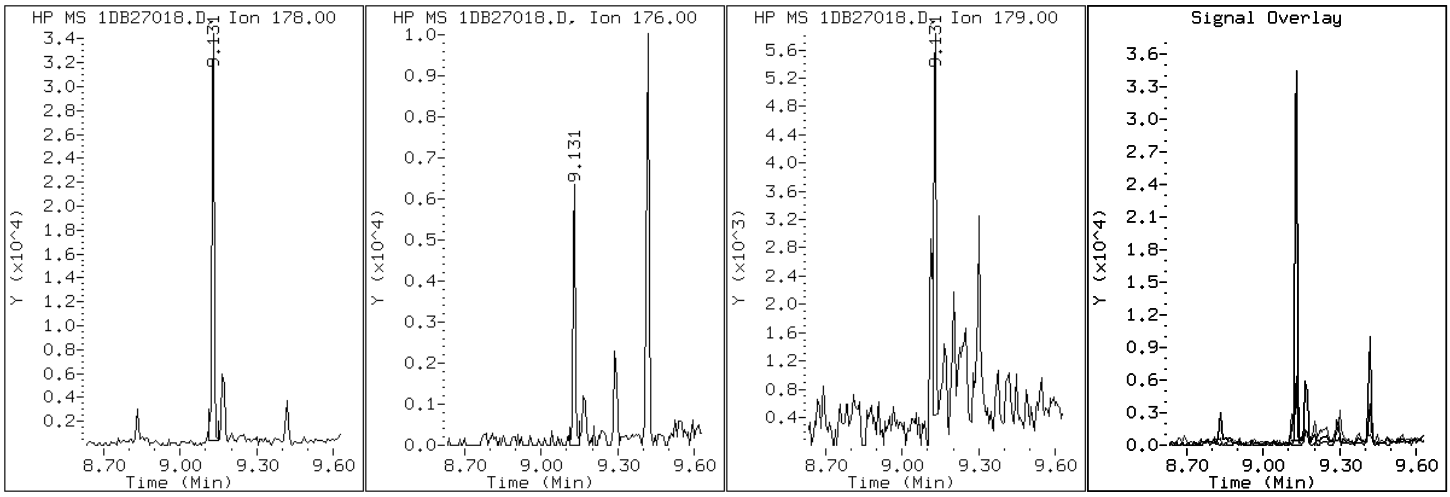
Data File: 1DB27018.D

Date: 27-FEB-2013 18:13

Client ID: FM0161ACC-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-56-A Operator: SCC

10 Phenanthrene



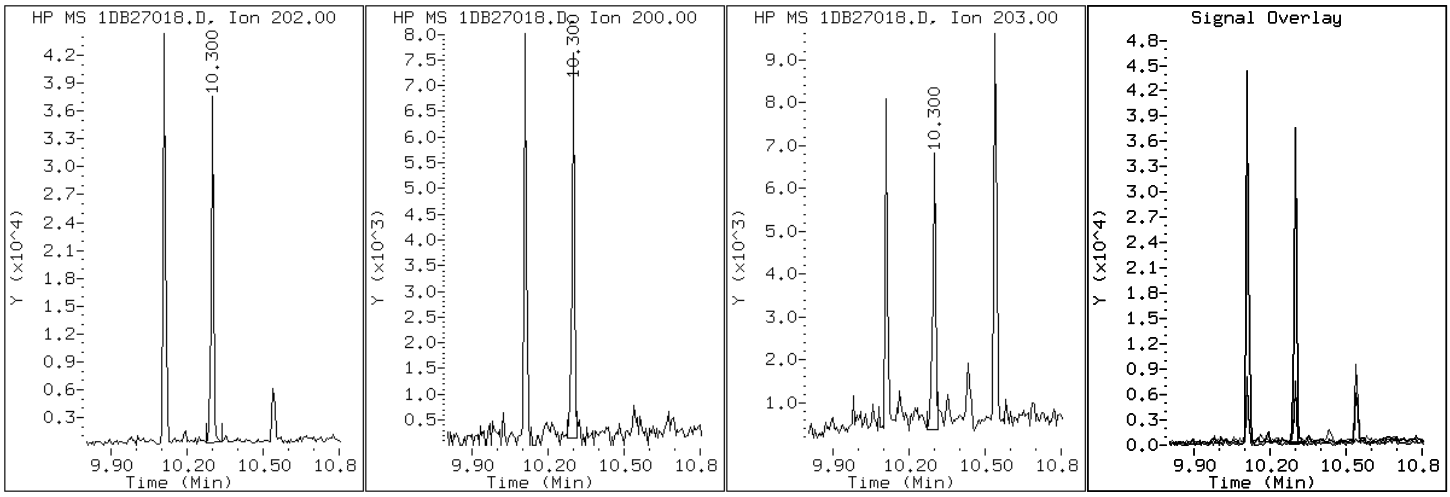
Data File: 1DB27018.D

Date: 27-FEB-2013 18:13

Client ID: FM0161ACC-GS Instrument: BSMSD.i

Sample Info: 680-87655-A-56-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB27018.D
Inj. Date and Time: 27-FEB-2013 18:13
Instrument ID: BSMSD.i
Client ID: FM0161ACC-GS
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/01/2013

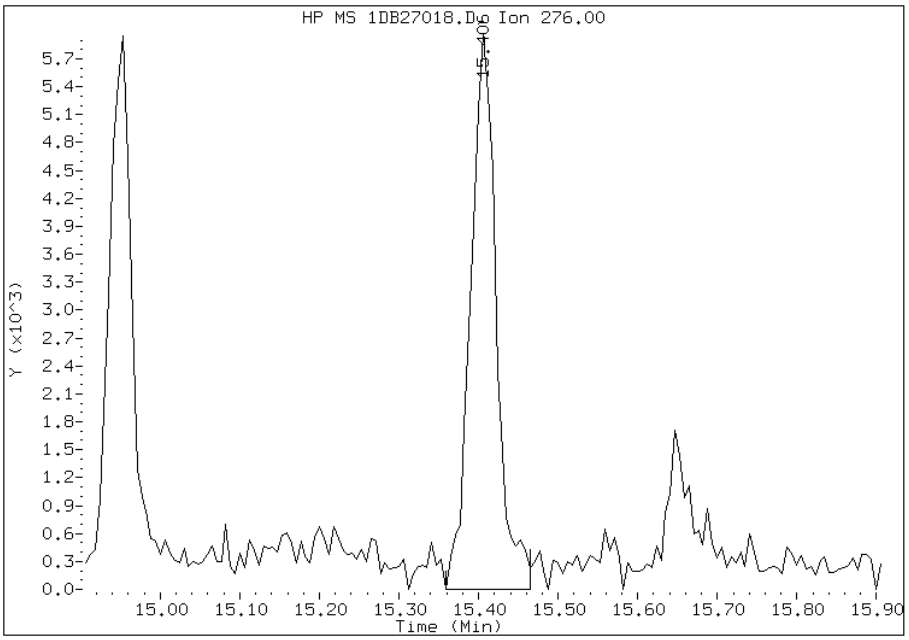
Processing Integration Results

RT: 15.41

Response: 13336

Amount: 0

Conc: 20



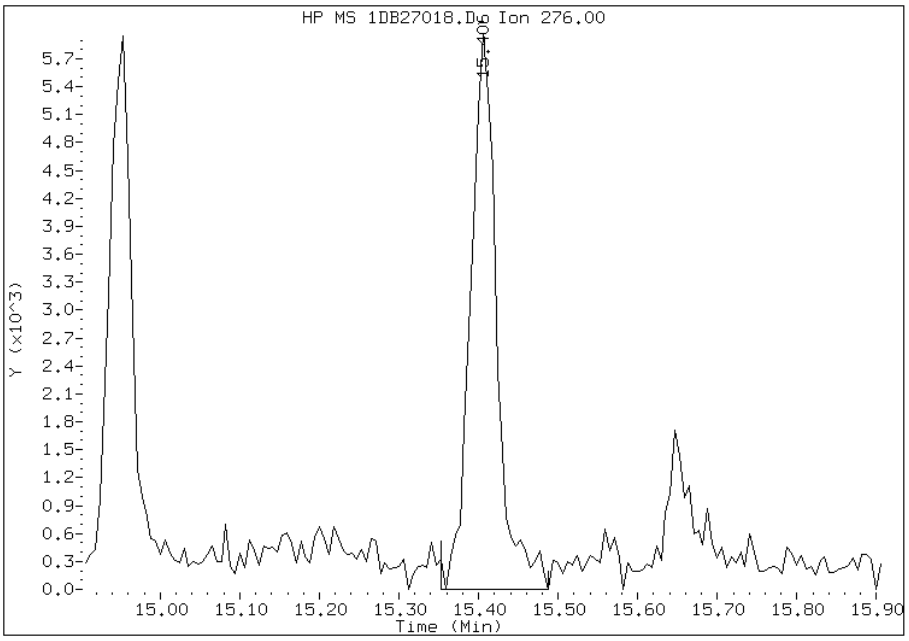
Manual Integration Results

RT: 15.41

Response: 13731

Amount: 0

Conc: 20



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:56
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DB27018.D
Inj. Date and Time: 27-FEB-2013 18:13
Instrument ID: BSMSD.i
Client ID: FM0161ACC-GS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/01/2013

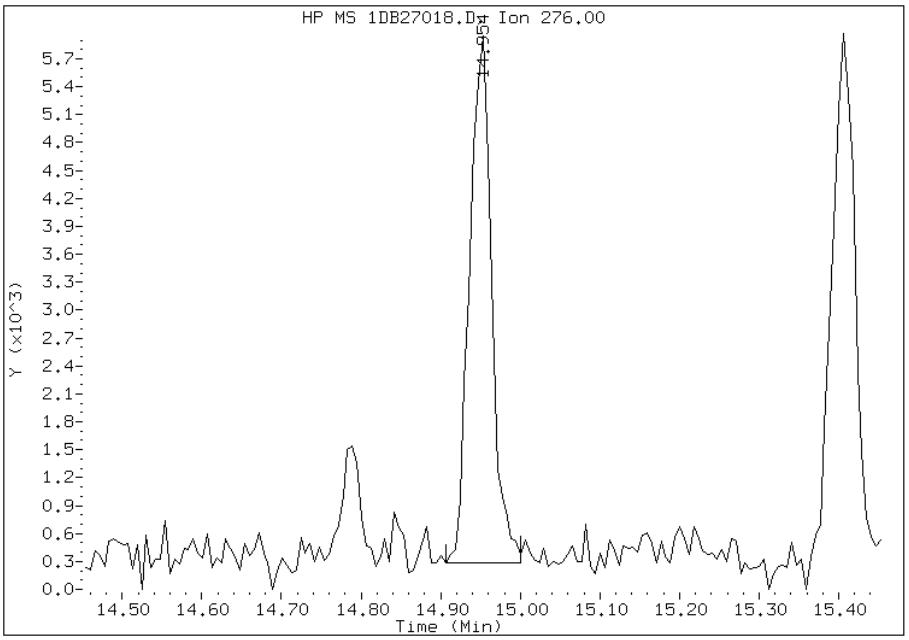
Processing Integration Results

RT: 14.95

Response: 10858

Amount: 0

Conc: 15



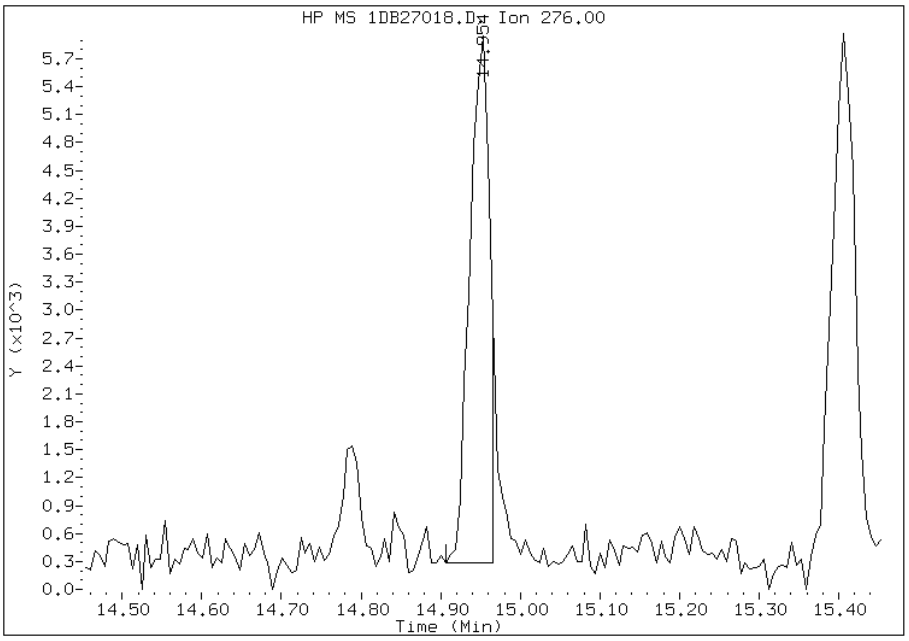
Manual Integration Results

RT: 14.95

Response: 9863

Amount: 0

Conc: 14



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:56
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87655-3

SDG No.: 68087655-3

Client Sample ID: FM0161ADD-GS | Lab Sample ID: 680-87655-57

Matrix: Solid | Lab File ID: 1CB28007.D

Analysis Method: 8270C LL | Date Collected: 02/19/2013 13:58

Extract. Method: 3546 | Date Extracted: 02/25/2013 15:00

Sample wt/vol: 14.97(g) | Date Analyzed: 02/28/2013 17:06

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

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

% Moisture: 17.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135011 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	49	U	49	6.1
120-12-7	Anthracene	6.1	J	10	5.1
56-55-3	Benzo[a]anthracene	33		9.7	4.7
50-32-8	Benzo[a]pyrene	33		13	6.3
205-99-2	Benzo[b]fluoranthene	57		15	7.4
191-24-2	Benzo[g,h,i]perylene	39		24	5.3
207-08-9	Benzo[k]fluoranthene	16		9.7	4.4
218-01-9	Chrysene	50		11	5.5
53-70-3	Dibenz(a,h)anthracene	12	J	24	5.0
206-44-0	Fluoranthene	44		24	4.9
86-73-7	Fluorene	24	U	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	22	J	24	8.6
90-12-0	1-Methylnaphthalene	22	J	49	5.3
91-57-6	2-Methylnaphthalene	25	J	49	8.6
91-20-3	Naphthalene	30	J	49	5.3
85-01-8	Phenanthrene	39		9.7	4.7
129-00-0	Pyrene	34		24	4.5

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\BSMC5973.i\1C022813.b\1CB28007.D
Lab Smp Id: 680-87655-A-57-A Client Smp ID: FM0161ADD-GS
Inj Date : 28-FEB-2013 17:06
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87655-a-57-a
Misc Info : 680-87655-A-57-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022813.b\a-bFASTPAHi-m.m
Meth Date : 28-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	14.970	Weight Extracted
M	17.526	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.786	3.786	(1.000)	1497831	40.0000	
* 6 Acenaphthene-d10	164	4.874	4.874	(1.000)	1186005	40.0000	
* 10 Phenanthrene-d10	188	5.827	5.827	(1.000)	2369688	40.0000	
$ 14 o-Terphenyl	230	6.080	6.080	(1.043)	248088	6.93405	561.6252
* 18 Chrysene-d12	240	7.774	7.774	(1.000)	2829196	40.0000	
* 23 Perylene-d12	264	8.980	8.980	(1.000)	2807021	40.0000	
2 Naphthalene	128	3.798	3.798	(1.003)	14331	0.36752	29.7670
3 2-Methylnaphthalene	142	4.221	4.227	(1.115)	7938	0.30518	24.7181
4 1-Methylnaphthalene	142	4.286	4.286	(1.132)	6534	0.27582	22.3398
11 Phenanthrene	178	5.839	5.845	(1.002)	32951	0.48089	38.9498
12 Anthracene	178	5.874	5.874	(1.008)	5070	0.07566	6.1278
15 Fluoranthene	202	6.680	6.680	(1.146)	40838	0.54423	44.0797
16 Pyrene	202	6.851	6.851	(0.881)	32014	0.42107	34.1044
17 Benzo(a)anthracene	228	7.768	7.762	(0.999)	33029	0.40449	32.7617

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
19 Chrysene	228	7.792	7.792	(1.002)	50587	0.61905	50.1399
20 Benzo(b)fluoranthene	252	8.621	8.621	(0.960)	51624	0.70373	56.9986(M)
21 Benzo(k)fluoranthene	252	8.645	8.651	(0.963)	14966	0.19887	16.1078(M)
22 Benzo(a)pyrene	252	8.921	8.927	(0.993)	29127	0.40877	33.1087
24 Indeno(1,2,3-cd)pyrene	276	10.180	10.186	(1.134)	18420	0.27480	22.2575(M)
25 Dibenzo(a,h)anthracene	278	10.192	10.203	(1.135)	9933	0.15150	12.2706
26 Benzo(g,h,i)perylene	276	10.539	10.545	(1.174)	33902	0.48349	39.1604

QC Flag Legend

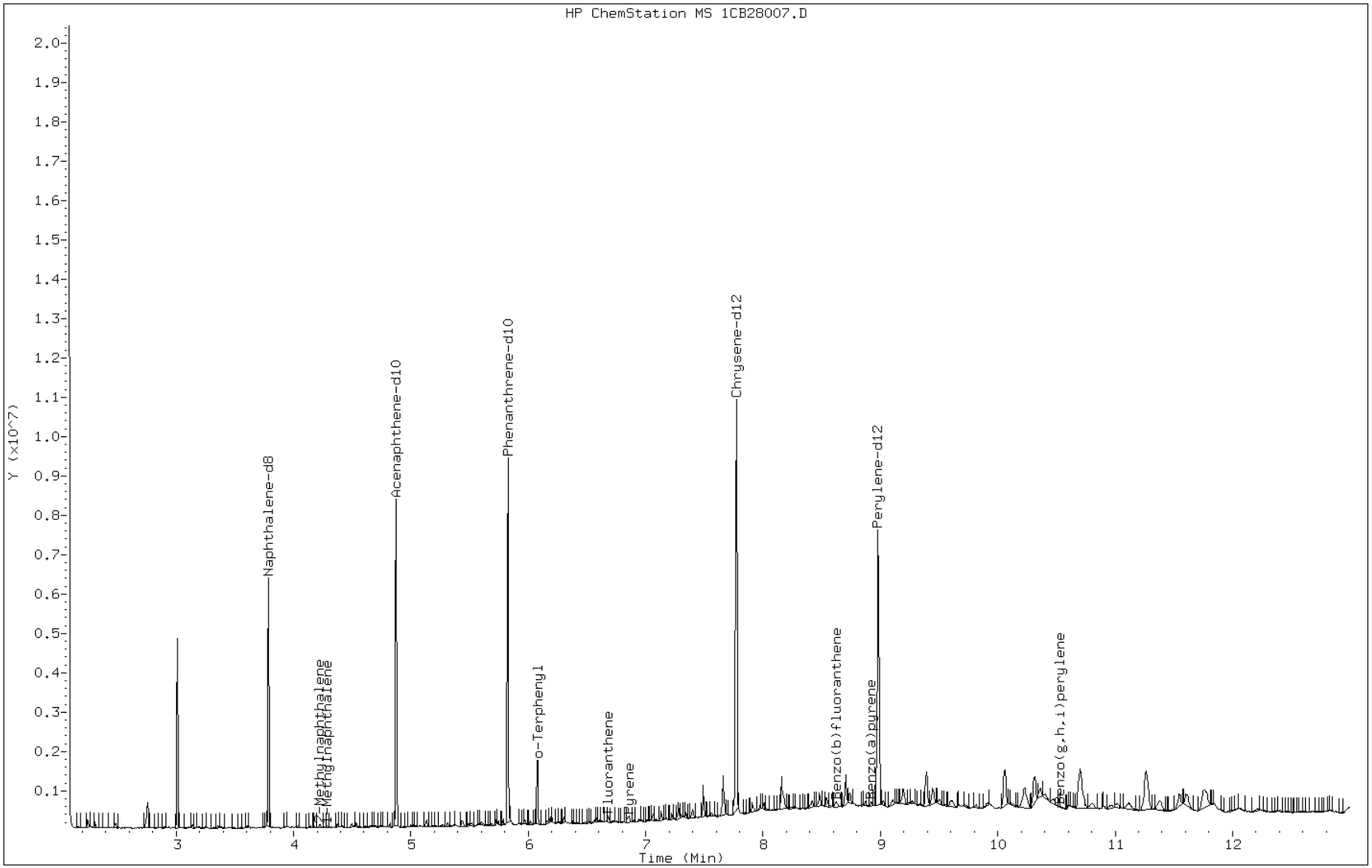
M - Compound response manually integrated.

Data File: 1CB28007.D

Date: 28-FEB-2013 17:06

Client ID: FM0161ADD-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-57-a Operator: SCC



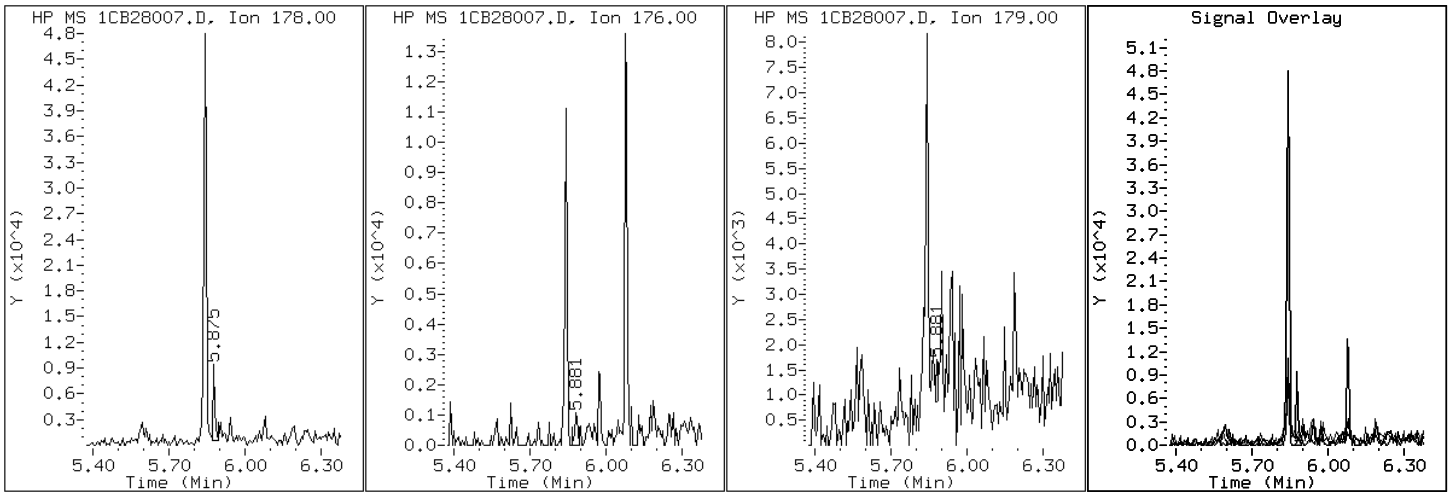
Data File: 1CB28007.D

Date: 28-FEB-2013 17:06

Client ID: FM0161ADD-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-57-a Operator: SCC

12 Anthracene



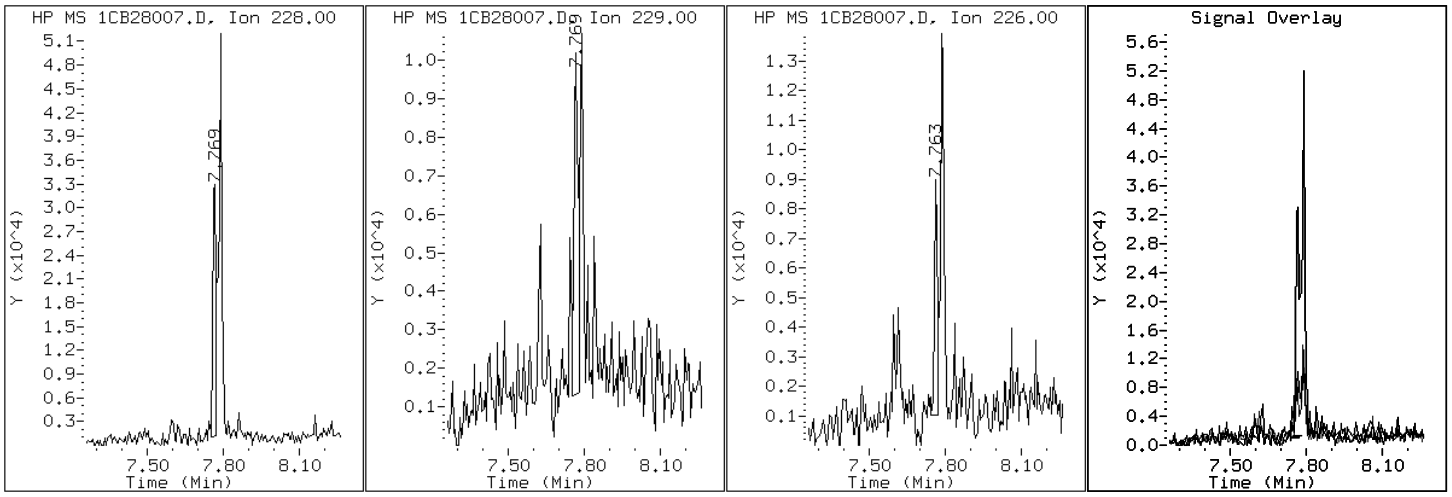
Data File: 1CB28007.D

Date: 28-FEB-2013 17:06

Client ID: FM0161ADD-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-57-a Operator: SCC

17 Benzo(a)anthracene



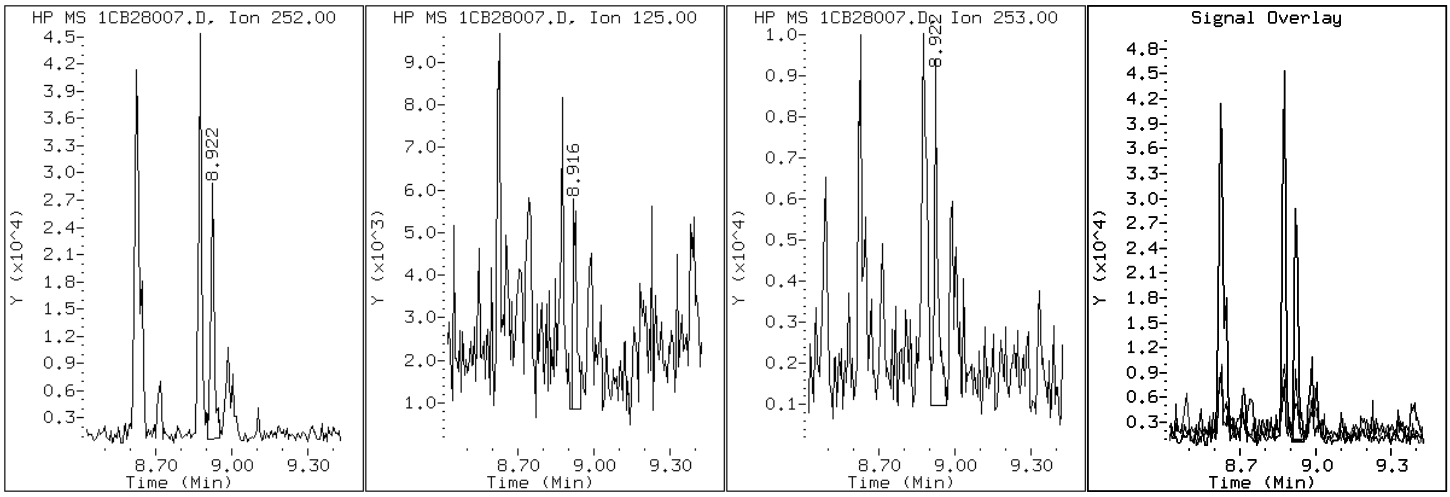
Data File: 1CB28007.D

Date: 28-FEB-2013 17:06

Client ID: FM0161ADD-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-57-a Operator: SCC

22 Benzo(a)pyrene



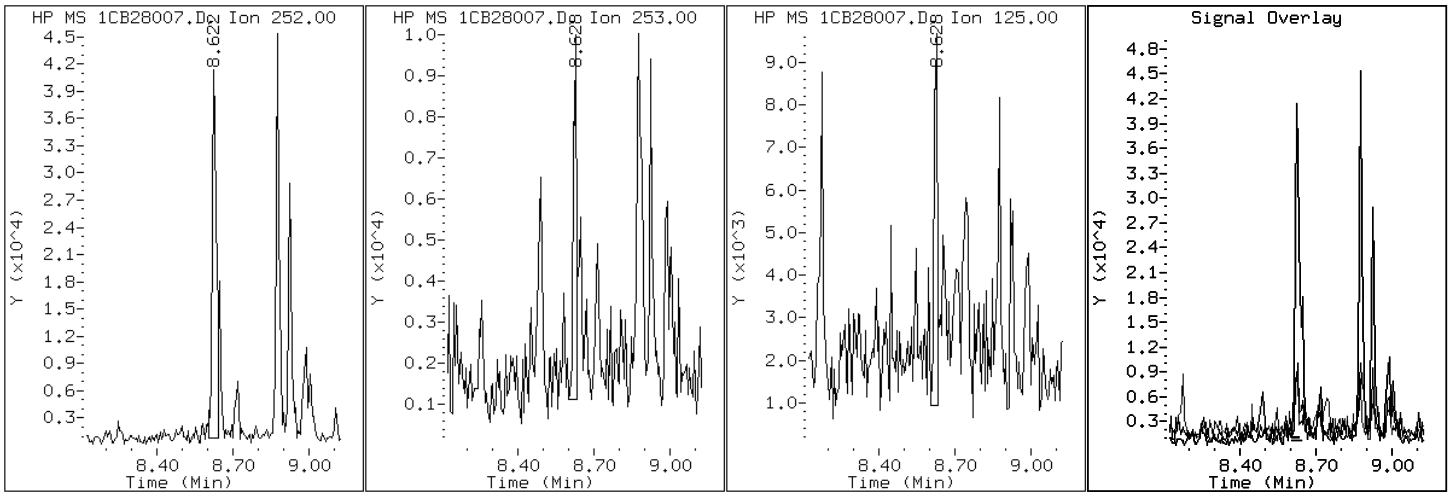
Data File: 1CB28007.D

Date: 28-FEB-2013 17:06

Client ID: FM0161ADD-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-57-a Operator: SCC

20 Benzo(b)fluoranthene



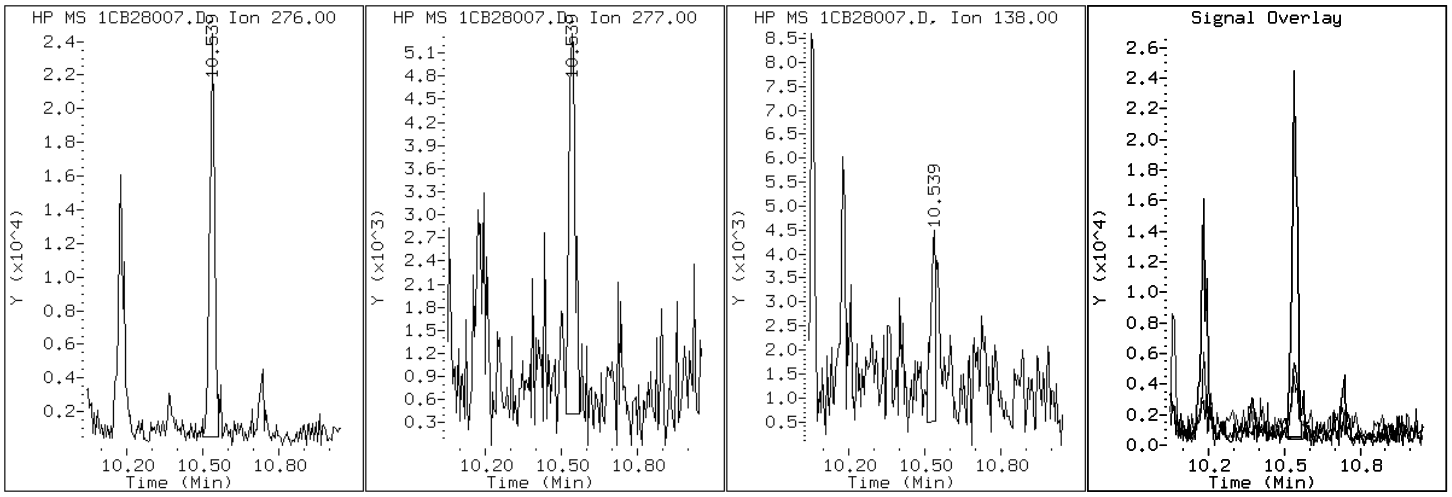
Data File: 1CB28007.D

Date: 28-FEB-2013 17:06

Client ID: FM0161ADD-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-57-a Operator: SCC

26 Benzo(g,h,i)perylene



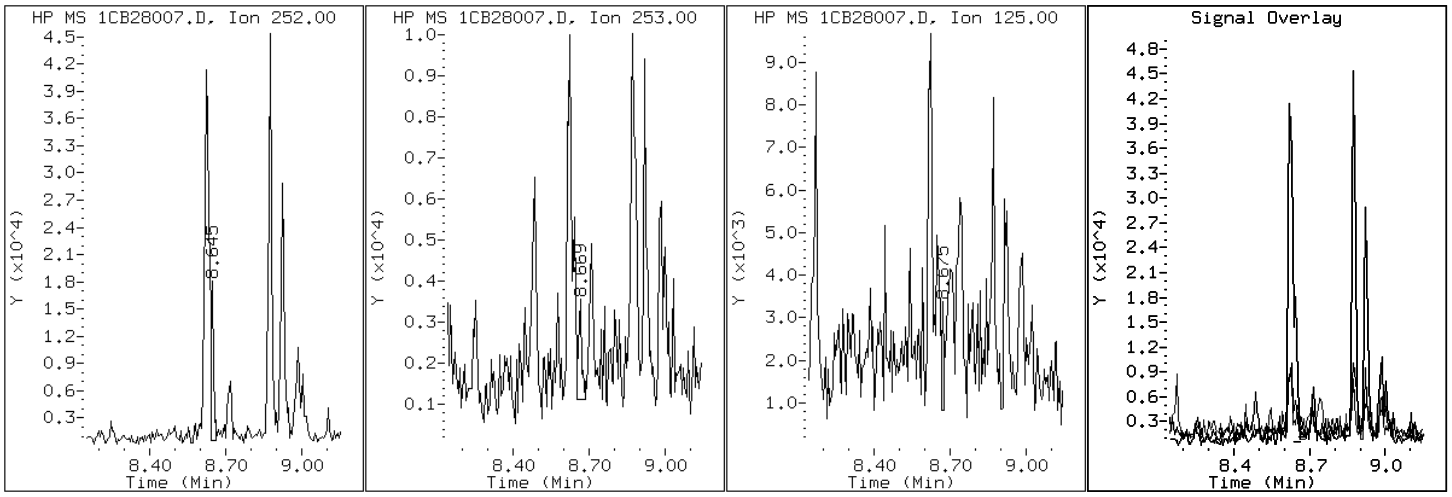
Data File: 1CB28007.D

Date: 28-FEB-2013 17:06

Client ID: FM0161ADD-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-57-a Operator: SCC

21 Benzo(k)fluoranthene



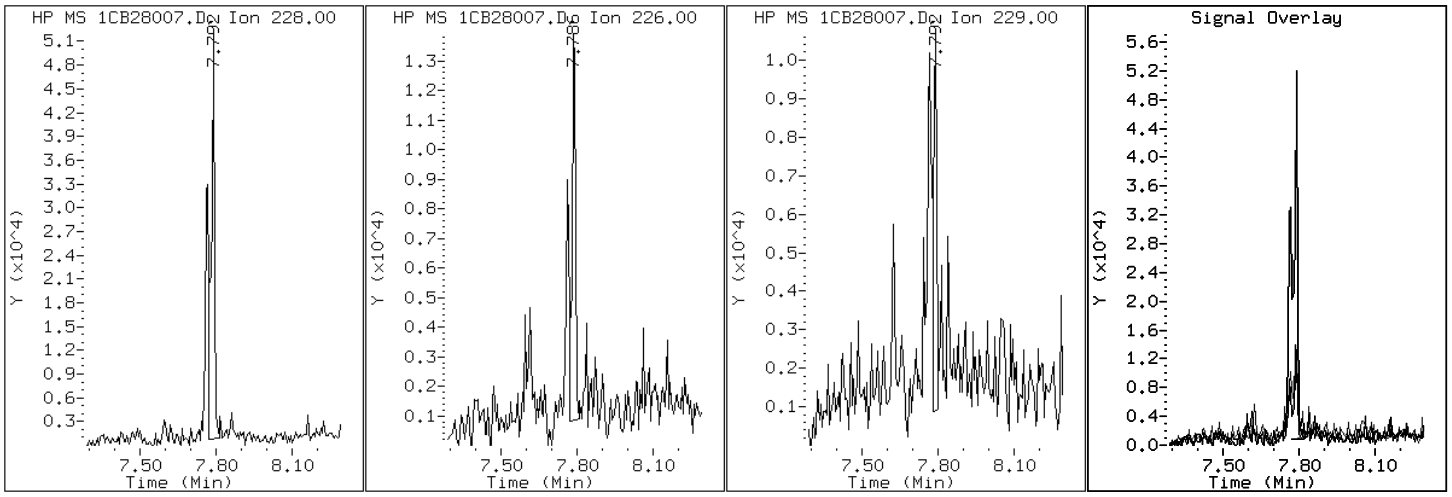
Data File: 1CB28007.D

Date: 28-FEB-2013 17:06

Client ID: FM0161ADD-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-57-a Operator: SCC

19 Chrysene



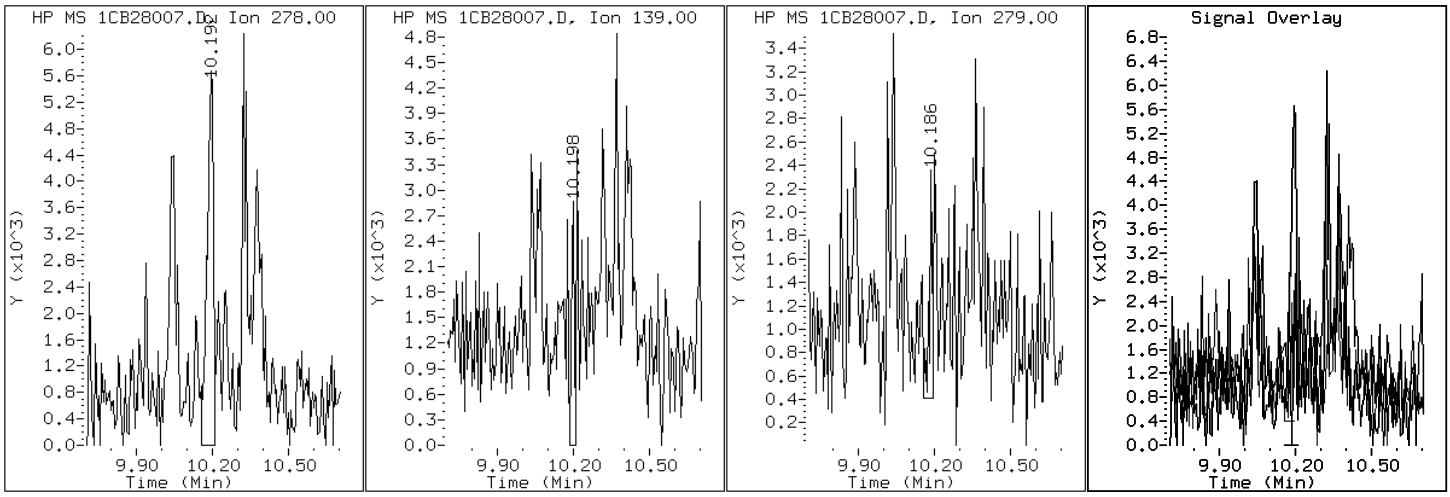
Data File: 1CB28007.D

Date: 28-FEB-2013 17:06

Client ID: FM0161ADD-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-57-a Operator: SCC

25 Dibenzo(a,h)anthracene



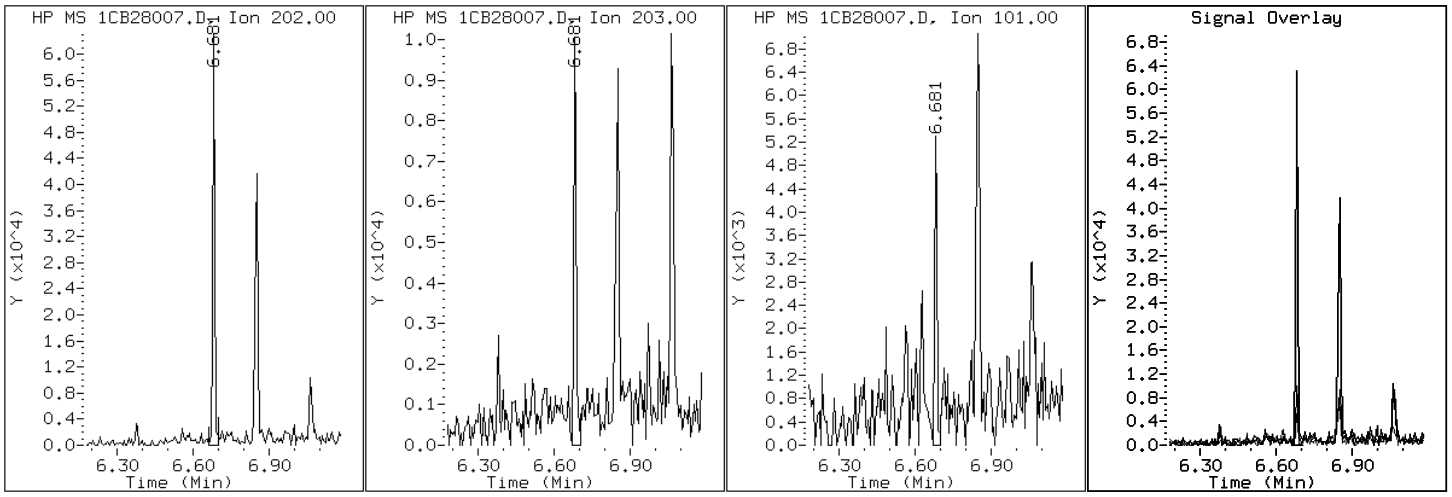
Data File: 1CB28007.D

Date: 28-FEB-2013 17:06

Client ID: FM0161ADD-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-57-a Operator: SCC

15 Fluoranthene



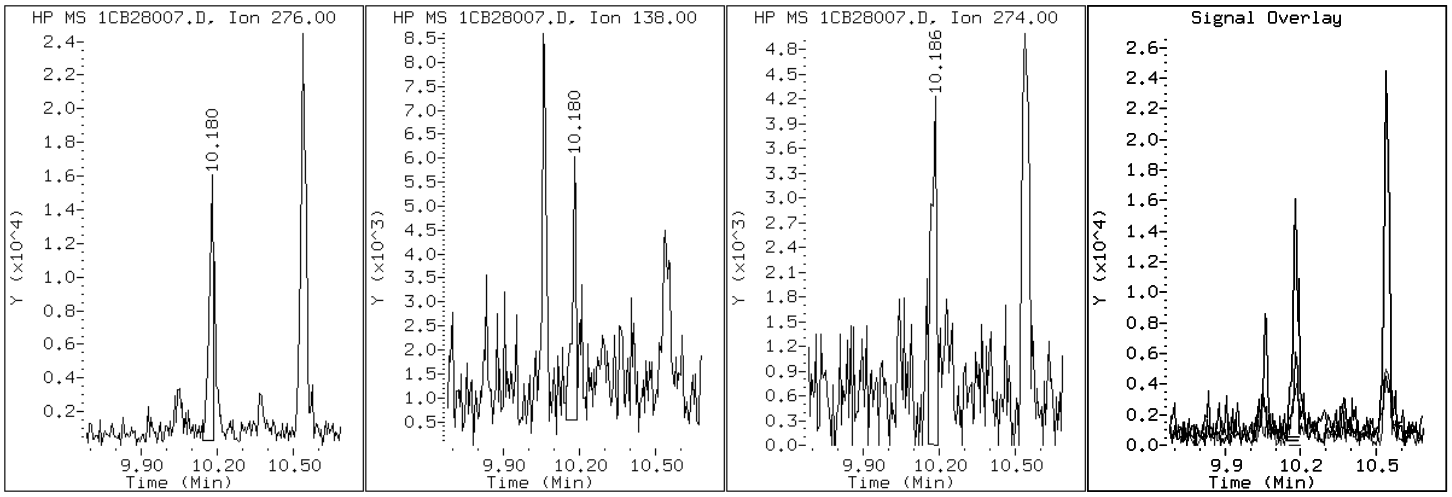
Data File: 1CB28007.D

Date: 28-FEB-2013 17:06

Client ID: FM0161ADD-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-57-a Operator: SCC

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



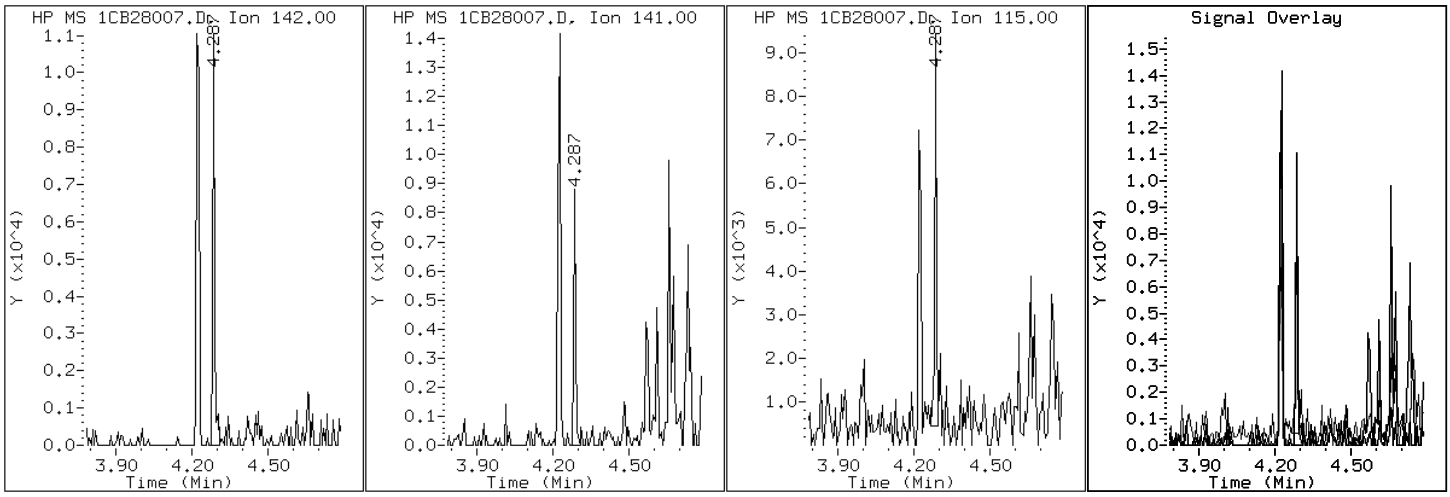
Data File: 1CB28007.D

Date: 28-FEB-2013 17:06

Client ID: FM0161ADD-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-57-a Operator: SCC

4 1-Methylnaphthalene



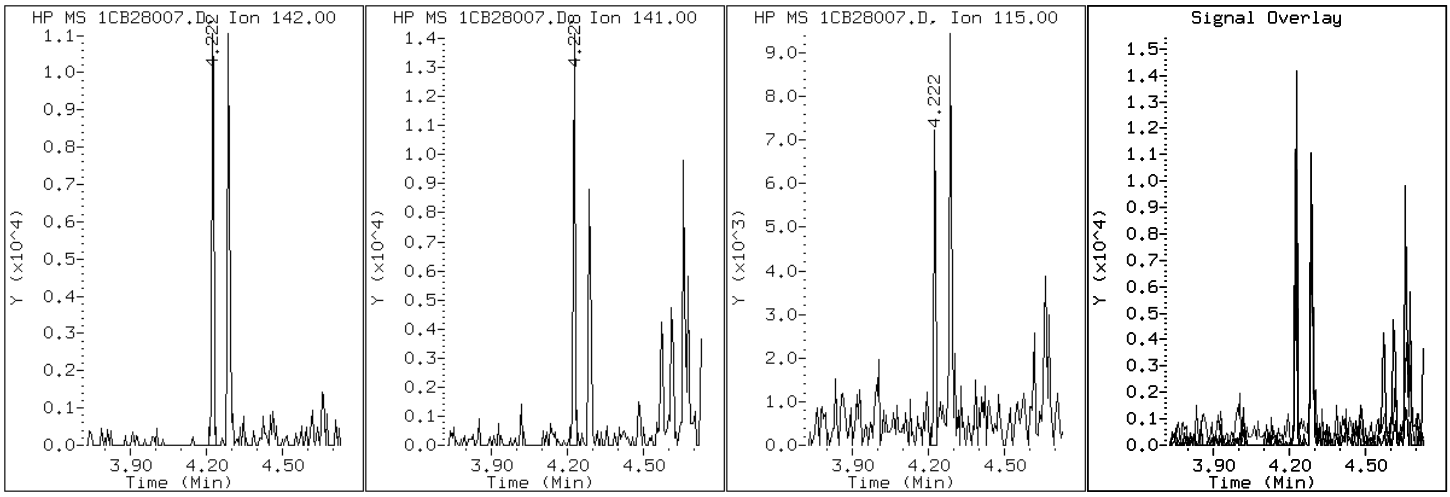
Data File: 1CB28007.D

Date: 28-FEB-2013 17:06

Client ID: FM0161ADD-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-57-a Operator: SCC

3 2-Methylnaphthalene



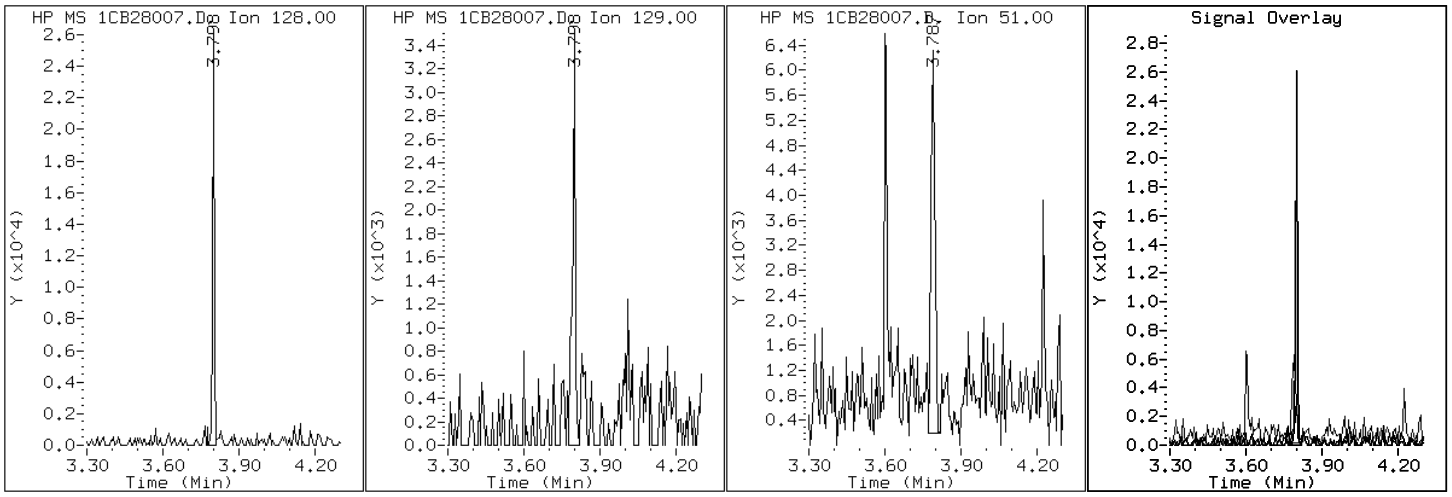
Data File: 1CB28007.D

Date: 28-FEB-2013 17:06

Client ID: FM0161ADD-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-57-a Operator: SCC

2 Naphthalene



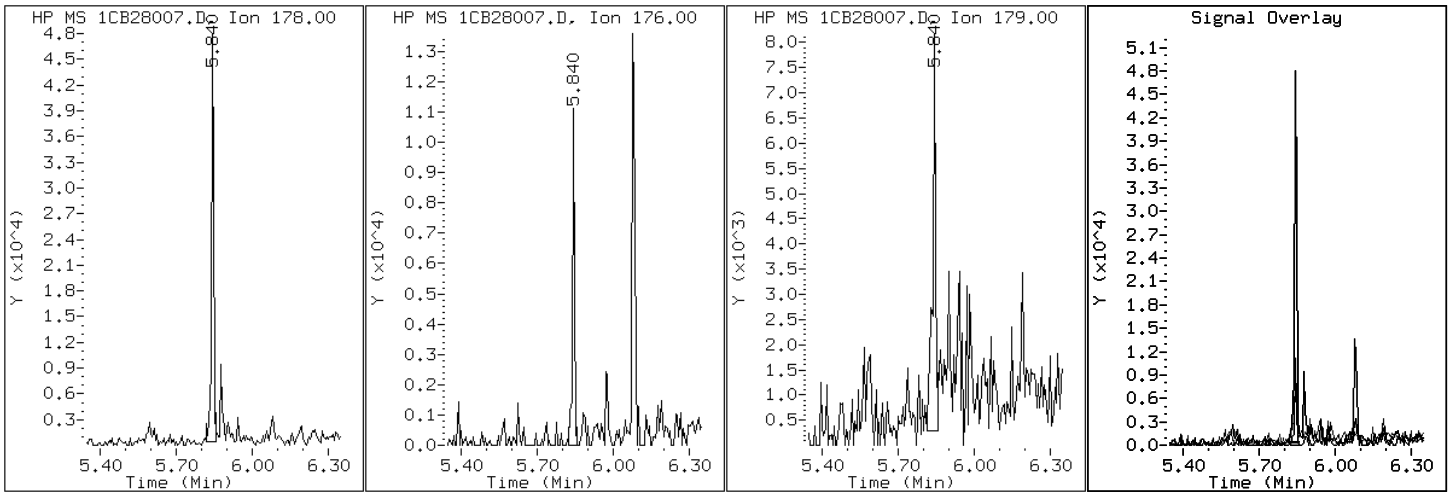
Data File: 1CB28007.D

Date: 28-FEB-2013 17:06

Client ID: FM0161ADD-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-57-a Operator: SCC

11 Phenanthrene



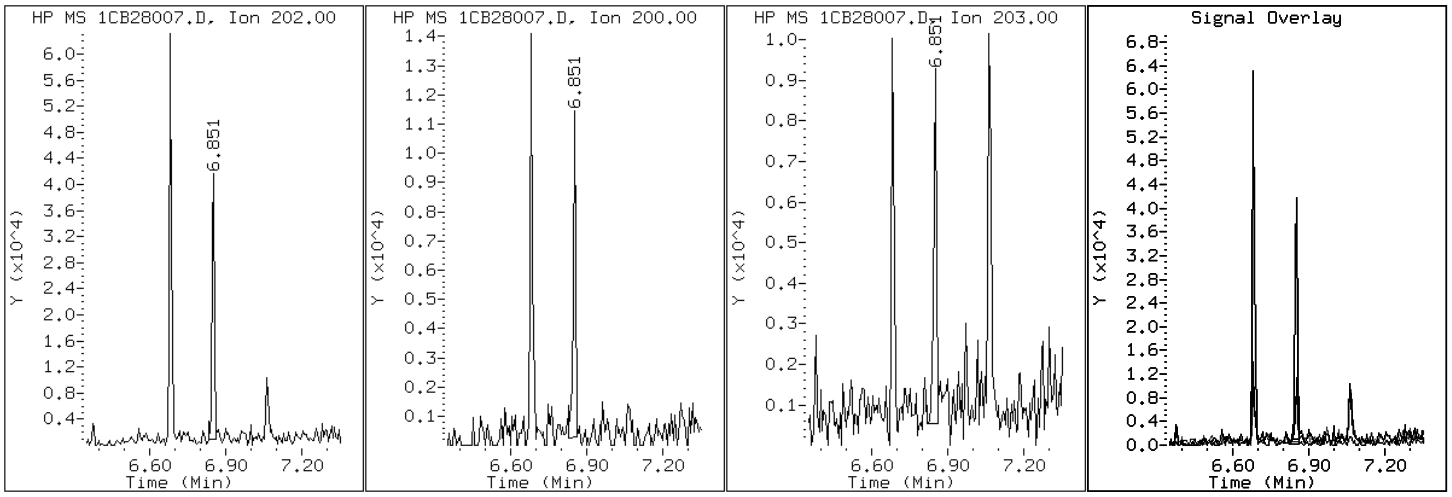
Data File: 1CB28007.D

Date: 28-FEB-2013 17:06

Client ID: FM0161ADD-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-57-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB28007.D
Inj. Date and Time: 28-FEB-2013 17:06
Instrument ID: BSMC5973.i
Client ID: FM0161ADD-GS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/04/2013

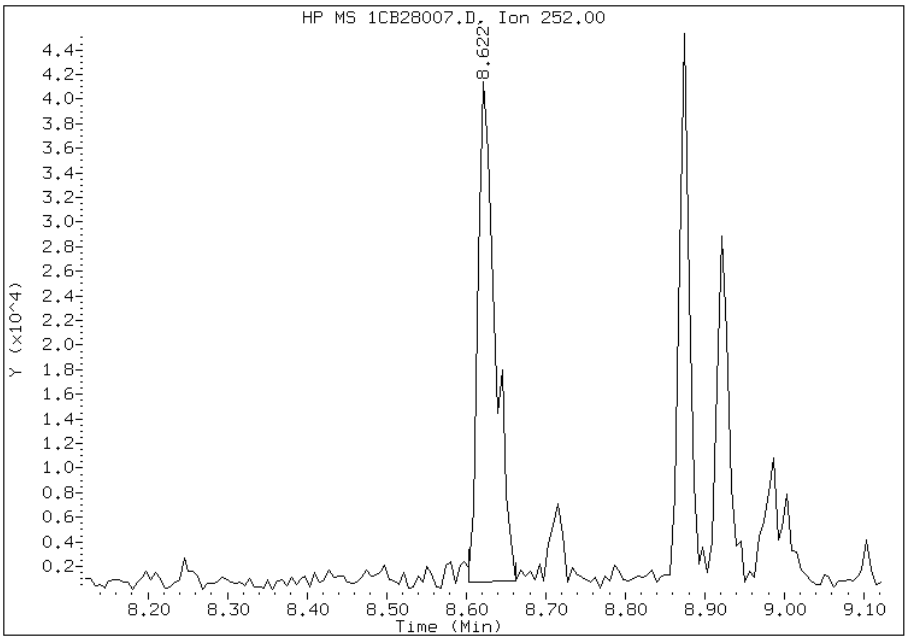
Processing Integration Results

RT: 8.62

Response: 61337

Amount: 1

Conc: 68



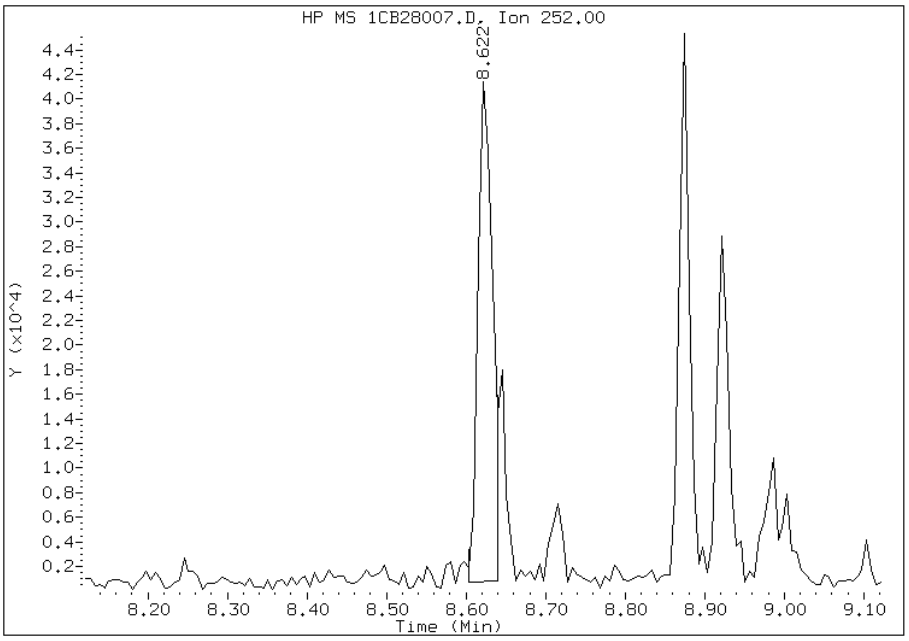
Manual Integration Results

RT: 8.62

Response: 51624

Amount: 1

Conc: 57



Manually Integrated By: cantins
Modification Date: 04-Mar-2013 10:56
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB28007.D
Inj. Date and Time: 28-FEB-2013 17:06
Instrument ID: BSMC5973.i
Client ID: FM0161ADD-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/04/2013

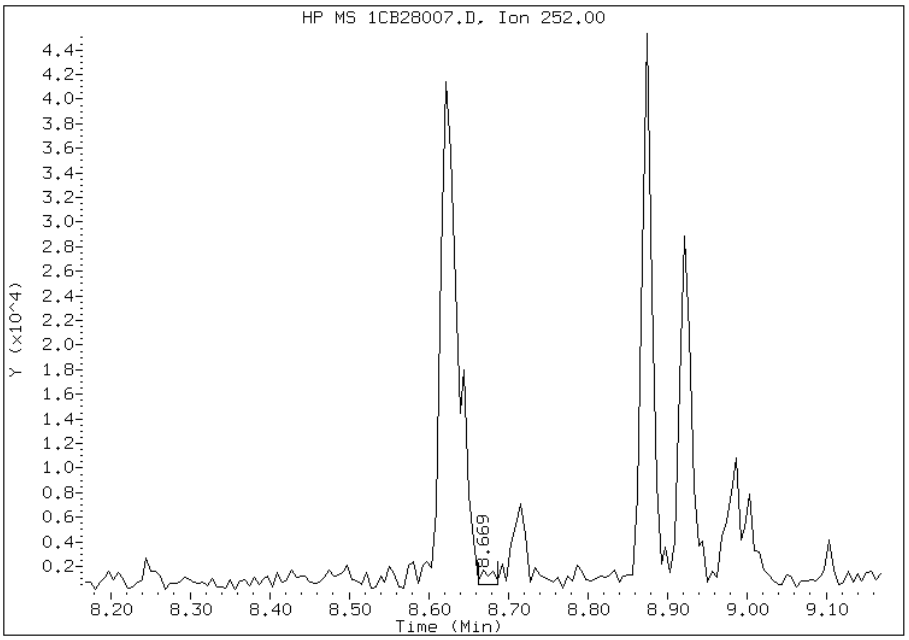
Processing Integration Results

RT: 8.67

Response: 1239

Amount: 0

Conc: 1



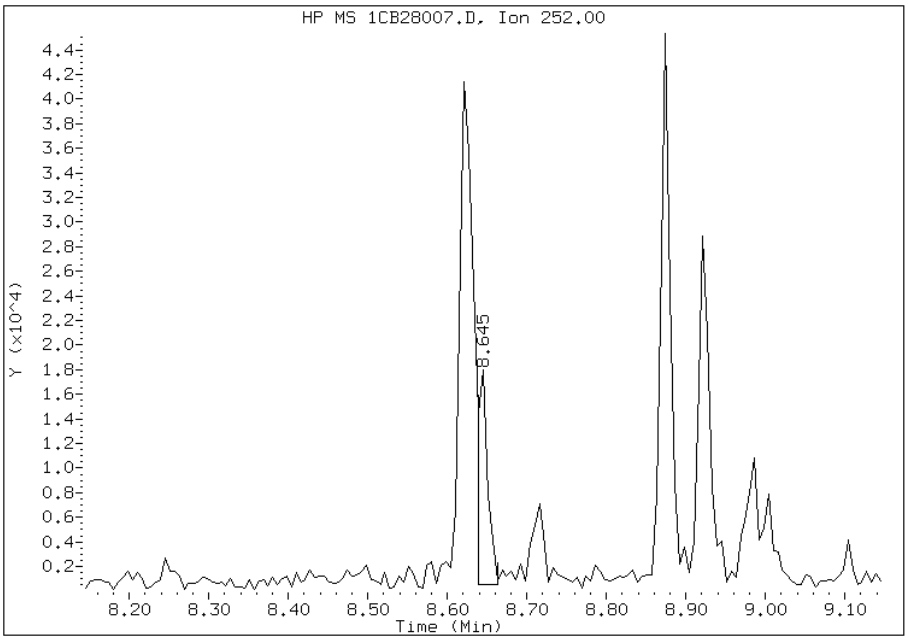
Manual Integration Results

RT: 8.65

Response: 14966

Amount: 0

Conc: 16



Manually Integrated By: cantins
Modification Date: 04-Mar-2013 10:56
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB28007.D
Inj. Date and Time: 28-FEB-2013 17:06
Instrument ID: BSMC5973.i
Client ID: FM0161ADD-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/04/2013

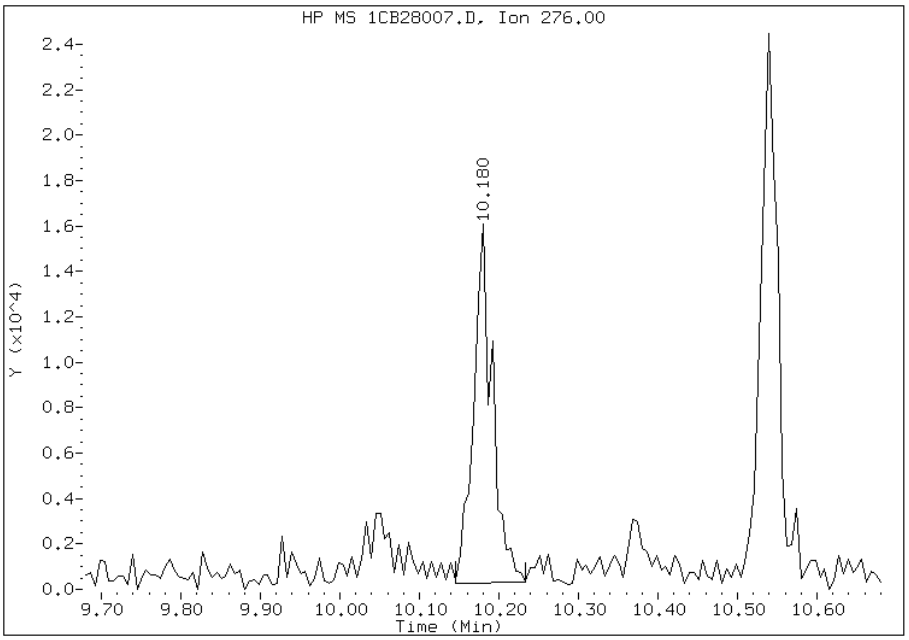
Processing Integration Results

RT: 10.18

Response: 25801

Amount: 0

Conc: 31



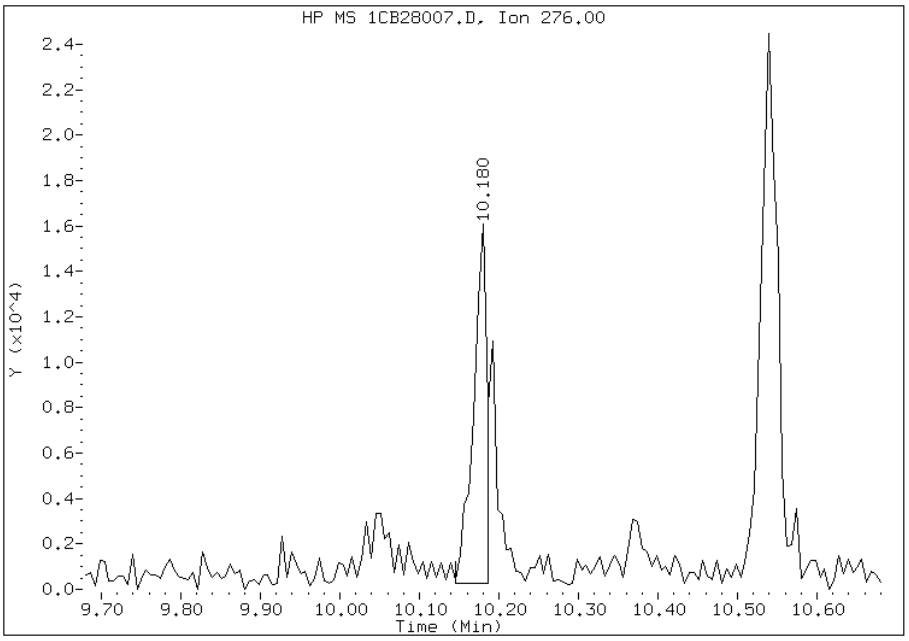
Manual Integration Results

RT: 10.18

Response: 18420

Amount: 0

Conc: 22



Manually Integrated By: cantins
Modification Date: 04-Mar-2013 10:57
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87655-3

SDG No.: 68087655-3

Client Sample ID: FM0161AEE-GS | Lab Sample ID: 680-87655-58

Matrix: Solid | Lab File ID: 1CB28008.D

Analysis Method: 8270C LL | Date Collected: 02/19/2013 14:05

Extract. Method: 3546 | Date Extracted: 02/25/2013 15:00

Sample wt/vol: 15.44(g) | Date Analyzed: 02/28/2013 17:25

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

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

% Moisture: 28.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135011 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	27
208-96-8	Acenaphthylene	54	U	54	6.8
120-12-7	Anthracene	6.8	J	11	5.7
56-55-3	Benzo[a]anthracene	49		11	5.3
50-32-8	Benzo[a]pyrene	35		14	7.1
205-99-2	Benzo[b]fluoranthene	60		17	8.3
191-24-2	Benzo[g,h,i]perylene	32		27	6.0
207-08-9	Benzo[k]fluoranthene	20		11	4.9
218-01-9	Chrysene	46		12	6.1
53-70-3	Dibenz(a,h)anthracene	11	J	27	5.6
206-44-0	Fluoranthene	73		27	5.4
86-73-7	Fluorene	6.8	J	27	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	31		27	9.7
90-12-0	1-Methylnaphthalene	18	J	54	6.0
91-57-6	2-Methylnaphthalene	23	J	54	9.7
91-20-3	Naphthalene	32	J	54	6.0
85-01-8	Phenanthrene	48		11	5.3
129-00-0	Pyrene	58		27	5.0

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\BSMC5973.i\1C022813.b\1CB28008.D
Lab Smp Id: 680-87655-A-58-A Client Smp ID: FM0161AEE-GS
Inj Date : 28-FEB-2013 17:25
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87655-a-58-a
Misc Info : 680-87655-A-58-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022813.b\a-bFASTPAHi-m.m
Meth Date : 28-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	15.440	Weight Extracted
M	28.662	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.786	3.786	(1.000)	1513287	40.0000	
* 6 Acenaphthene-d10	164	4.874	4.874	(1.000)	1228678	40.0000	
* 10 Phenanthrene-d10	188	5.827	5.827	(1.000)	2409392	40.0000	
$ 14 o-Terphenyl	230	6.080	6.080	(1.043)	212789	5.84943	531.0655
* 18 Chrysene-d12	240	7.774	7.774	(1.000)	2815123	40.0000	
* 23 Perylene-d12	264	8.980	8.980	(1.000)	2691684	40.0000	
2 Naphthalene	128	3.798	3.798	(1.003)	13708	0.34795	31.5900(Q)
3 2-Methylnaphthalene	142	4.221	4.227	(1.115)	6694	0.25473	23.1263
4 1-Methylnaphthalene	142	4.286	4.286	(1.132)	4662	0.19478	17.6843
9 Fluorene	166	5.215	5.216	(1.070)	2909	0.07471	6.7825(Q)
11 Phenanthrene	178	5.839	5.845	(1.002)	36844	0.52884	48.0133
12 Anthracene	178	5.874	5.874	(1.008)	5120	0.07514	6.8222
13 Carbazole	167	5.986	5.986	(1.027)	5403	0.08921	8.0989
15 Fluoranthene	202	6.680	6.680	(1.146)	61324	0.80376	72.9731

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.851	6.851	(0.881)	48679	0.64346	58.4188
17 Benzo(a)anthracene	228	7.768	7.762	(0.999)	44198	0.54398	49.3871
19 Chrysene	228	7.792	7.792	(1.002)	41007	0.50432	45.7871
20 Benzo(b)fluoranthene	252	8.621	8.621	(0.960)	46656	0.66326	60.2166
21 Benzo(k)fluoranthene	252	8.645	8.651	(0.963)	15559	0.21561	19.5753
22 Benzo(a)pyrene	252	8.921	8.927	(0.993)	26446	0.38705	35.1401
24 Indeno(1,2,3-cd)pyrene	276	10.174	10.186	(1.133)	22201	0.34540	31.3586(M)
25 Dibenzo(a,h)anthracene	278	10.203	10.203	(1.136)	7320	0.11643	10.5704(M)
26 Benzo(g,h,i)perylene	276	10.539	10.545	(1.174)	23520	0.34980	31.7581(M)

QC Flag Legend

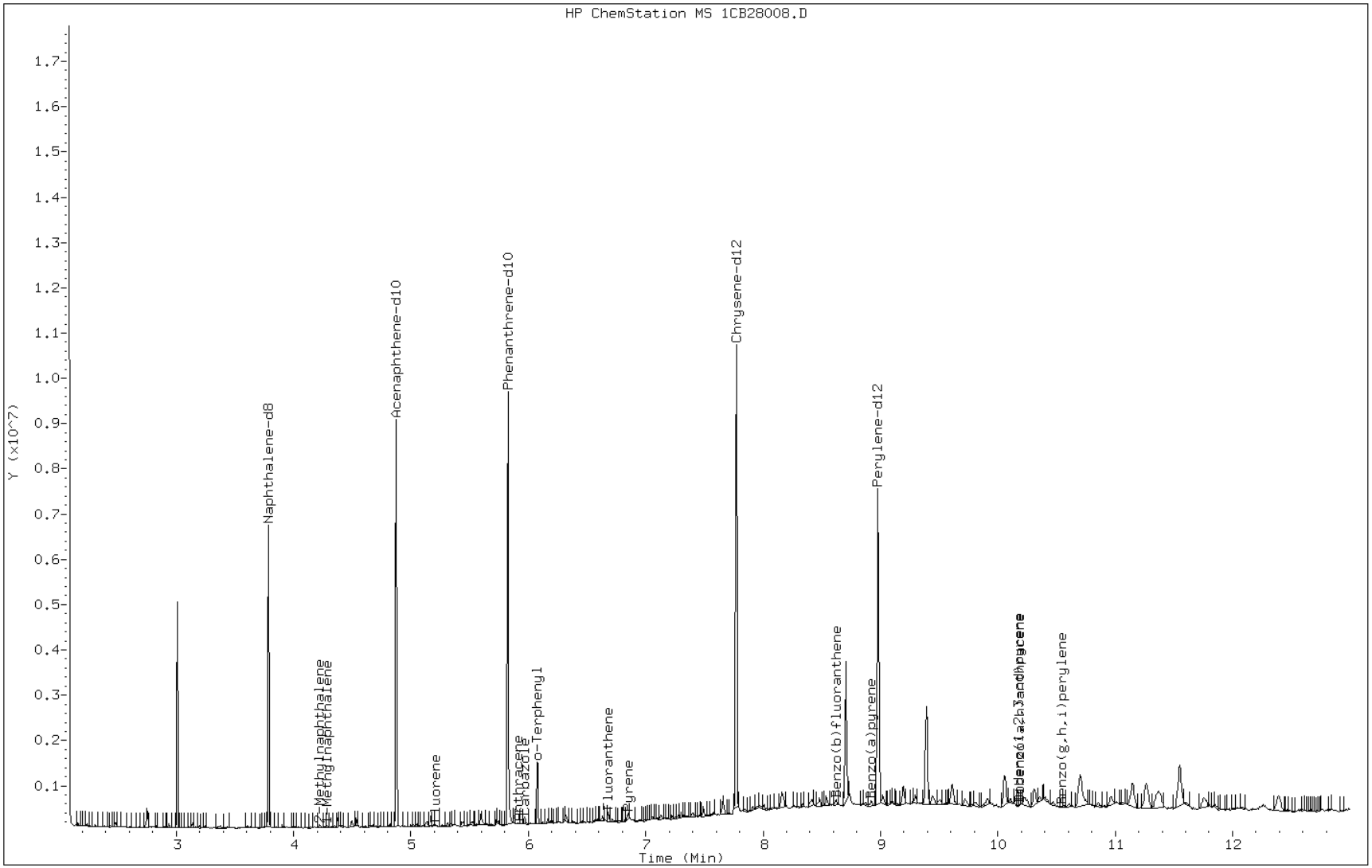
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB28008.D

Date: 28-FEB-2013 17:25

Client ID: FM0161AEE-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-58-a Operator: SCC



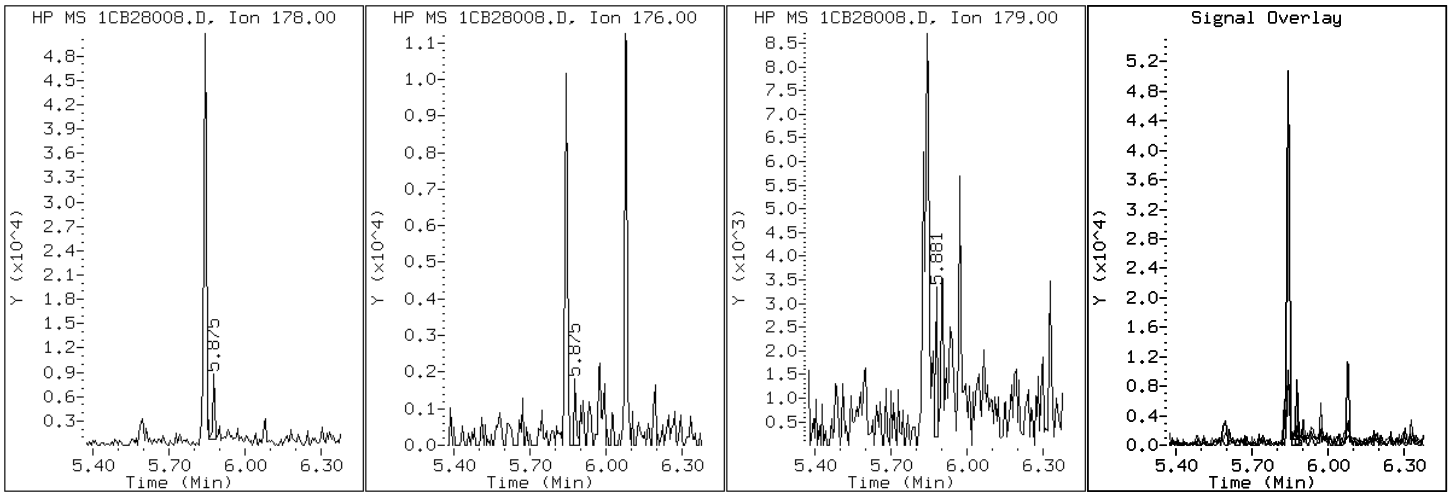
Data File: 1CB28008.D

Date: 28-FEB-2013 17:25

Client ID: FM0161AEE-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-58-a Operator: SCC

12 Anthracene



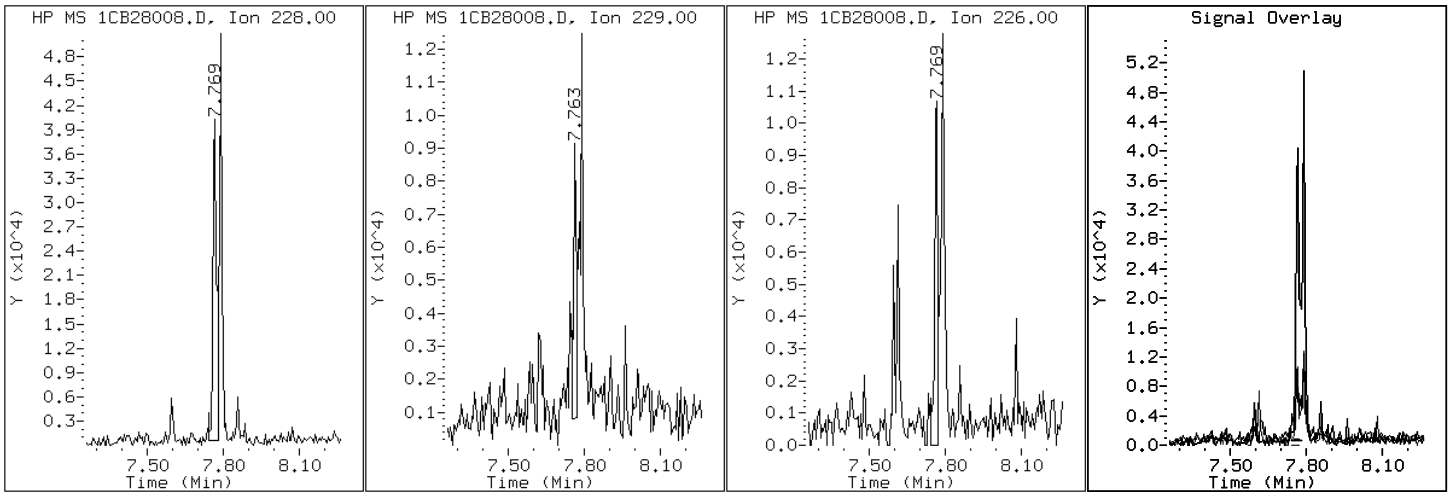
Data File: 1CB28008.D

Date: 28-FEB-2013 17:25

Client ID: FM0161AEE-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-58-a Operator: SCC

17 Benzo(a)anthracene



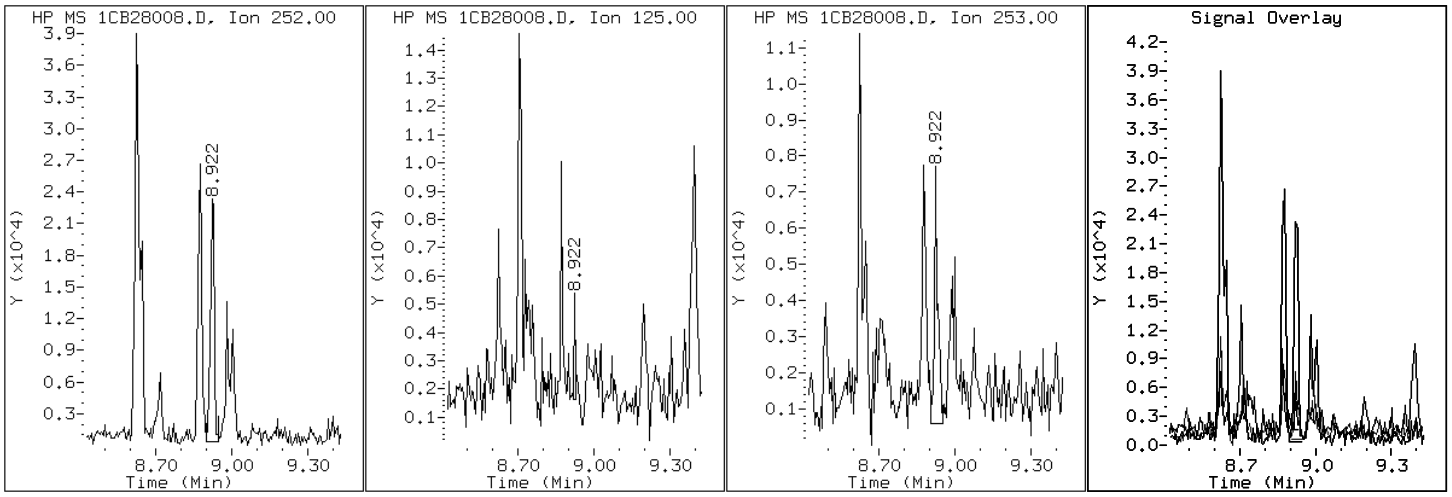
Data File: 1CB28008.D

Date: 28-FEB-2013 17:25

Client ID: FM0161AEE-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-58-a Operator: SCC

22 Benzo(a)pyrene



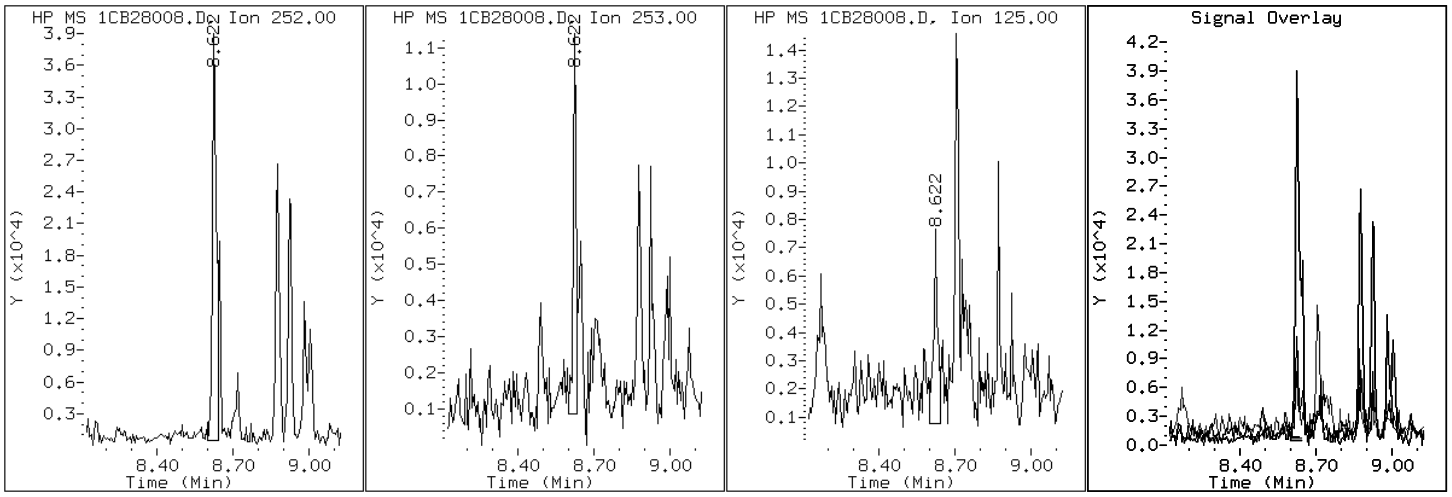
Data File: 1CB28008.D

Date: 28-FEB-2013 17:25

Client ID: FM0161AEE-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-58-a Operator: SCC

20 Benzo(b)fluoranthene



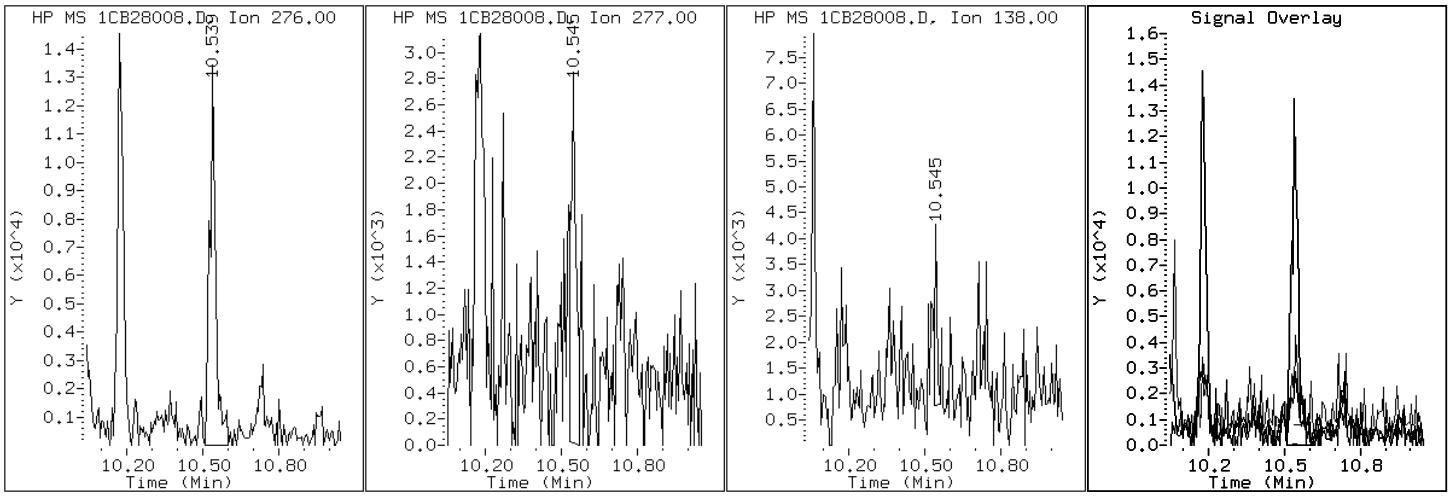
Data File: 1CB28008.D

Date: 28-FEB-2013 17:25

Client ID: FM0161AEE-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-58-a Operator: SCC

26 Benzo(g,h,i)perylene



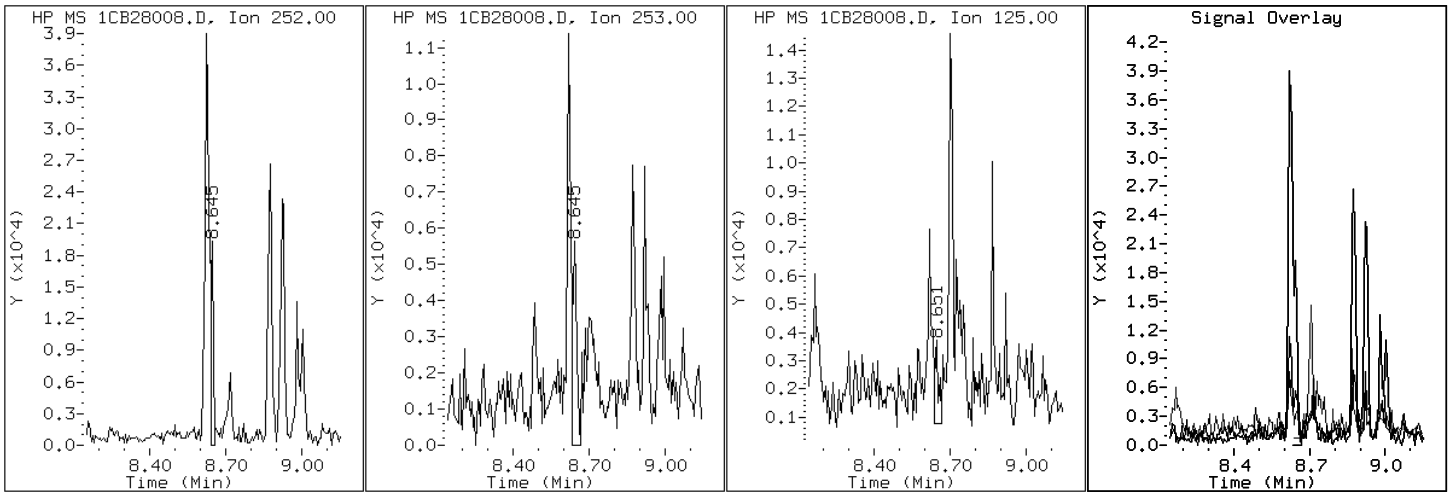
Data File: 1CB28008.D

Date: 28-FEB-2013 17:25

Client ID: FM0161AEE-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-58-a Operator: SCC

21 Benzo(k)fluoranthene



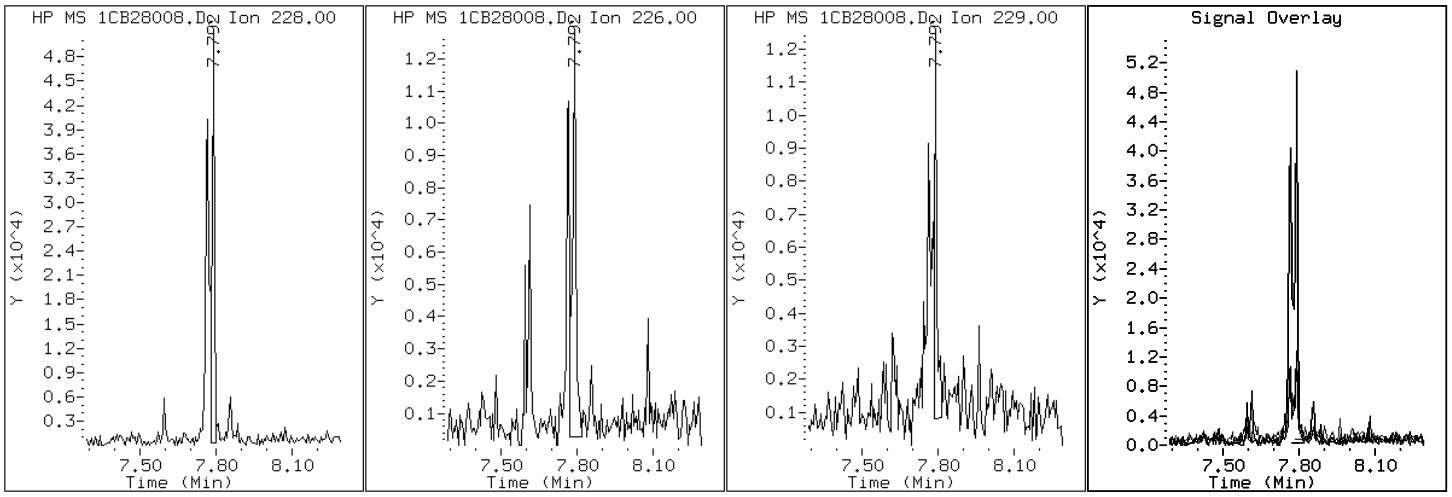
Data File: 1CB28008.D

Date: 28-FEB-2013 17:25

Client ID: FM0161AEE-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-58-a Operator: SCC

19 Chrysene



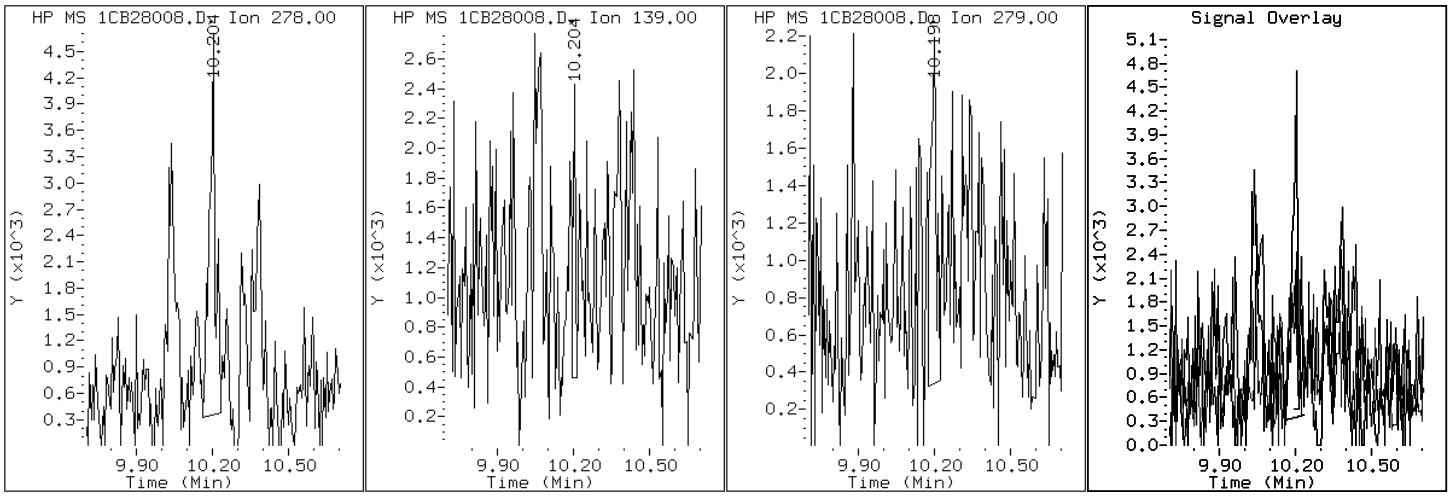
Data File: 1CB28008.D

Date: 28-FEB-2013 17:25

Client ID: FM0161AEE-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-58-a Operator: SCC

25 Dibenzo(a,h)anthracene



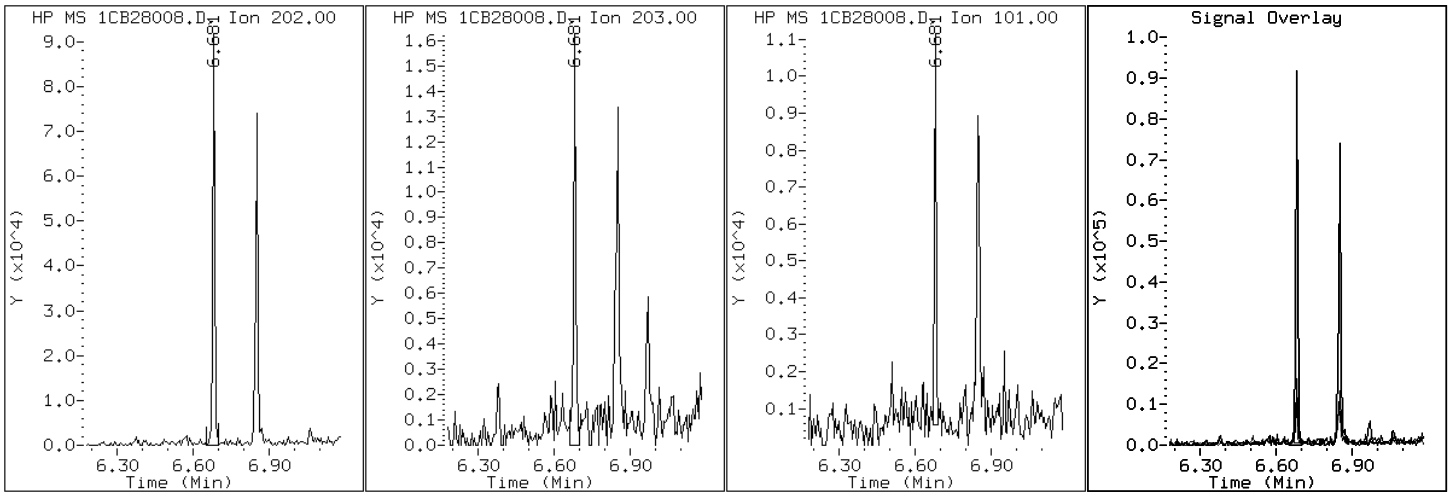
Data File: 1CB28008.D

Date: 28-FEB-2013 17:25

Client ID: FM0161AEE-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-58-a Operator: SCC

15 Fluoranthene



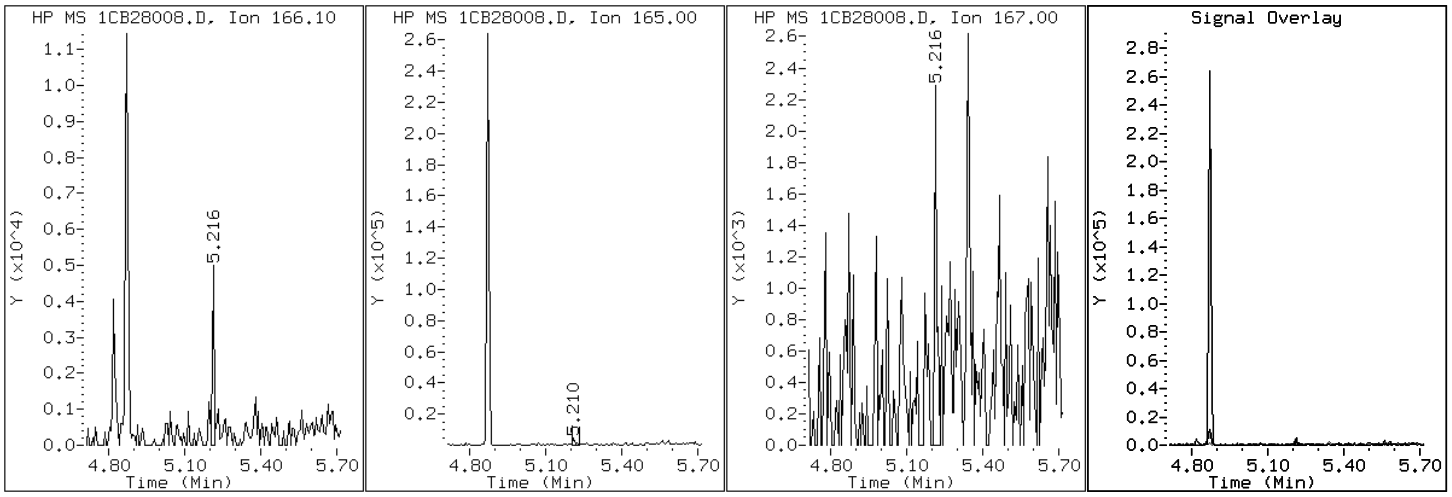
Data File: 1CB28008.D

Date: 28-FEB-2013 17:25

Client ID: FM0161AEE-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-58-a Operator: SCC

9 Fluorene



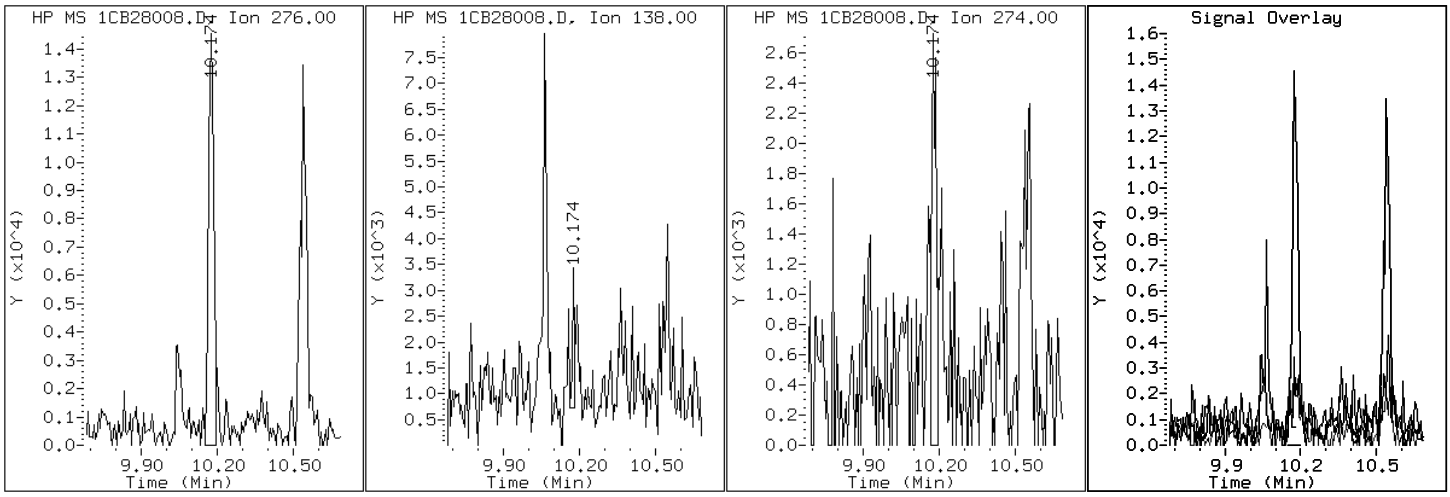
Data File: 1CB28008.D

Date: 28-FEB-2013 17:25

Client ID: FM0161AEE-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-58-a Operator: SCC

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



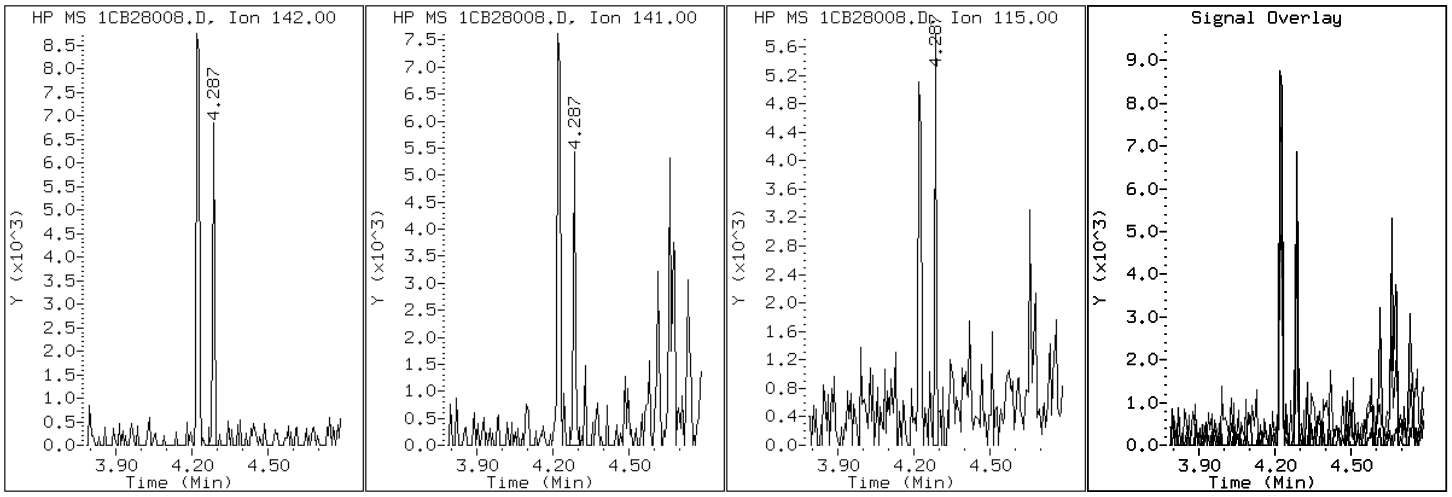
Data File: 1CB28008.D

Date: 28-FEB-2013 17:25

Client ID: FM0161AEE-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-58-a Operator: SCC

4 1-Methylnaphthalene



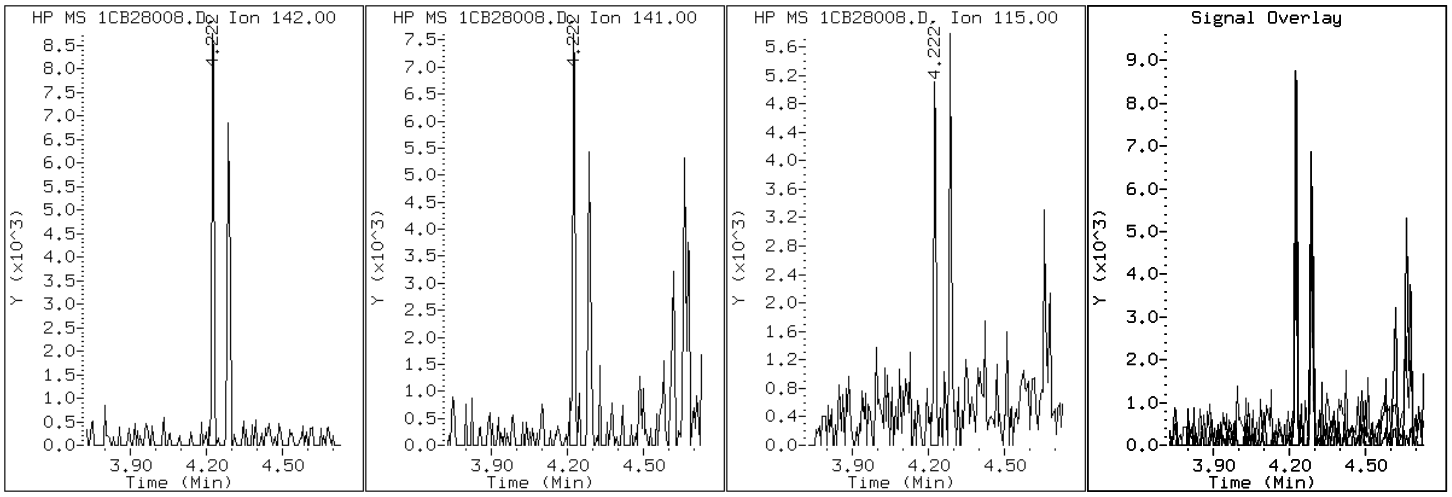
Data File: 1CB28008.D

Date: 28-FEB-2013 17:25

Client ID: FM0161AEE-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-58-a Operator: SCC

3 2-Methylnaphthalene



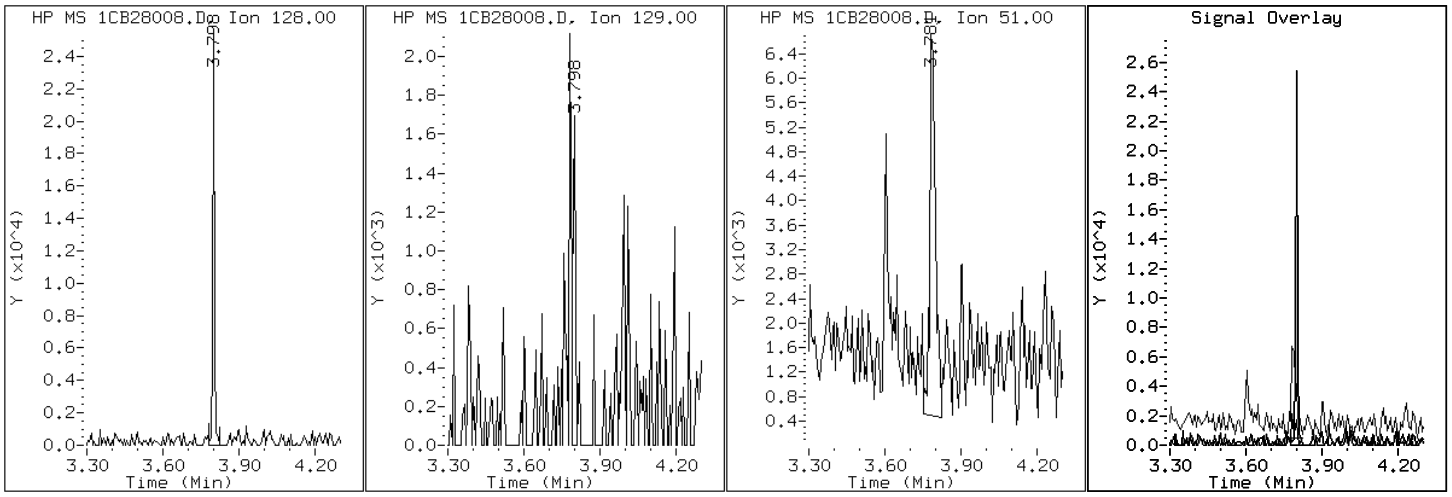
Data File: 1CB28008.D

Date: 28-FEB-2013 17:25

Client ID: FM0161AEE-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-58-a Operator: SCC

2 Naphthalene



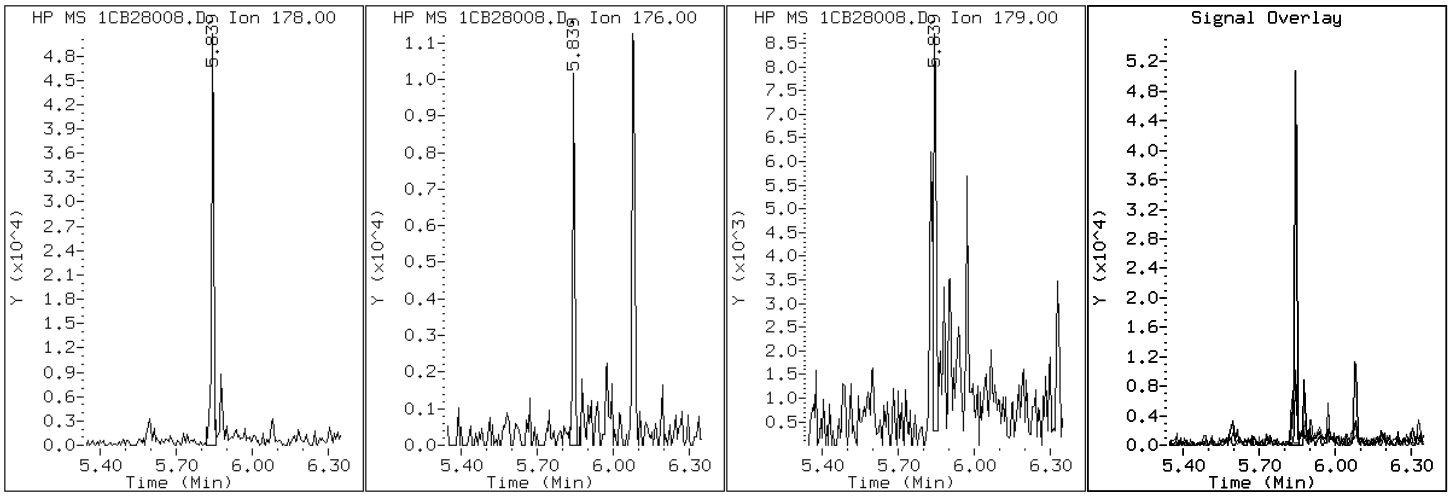
Data File: 1CB28008.D

Date: 28-FEB-2013 17:25

Client ID: FM0161AEE-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-58-a Operator: SCC

11 Phenanthrene



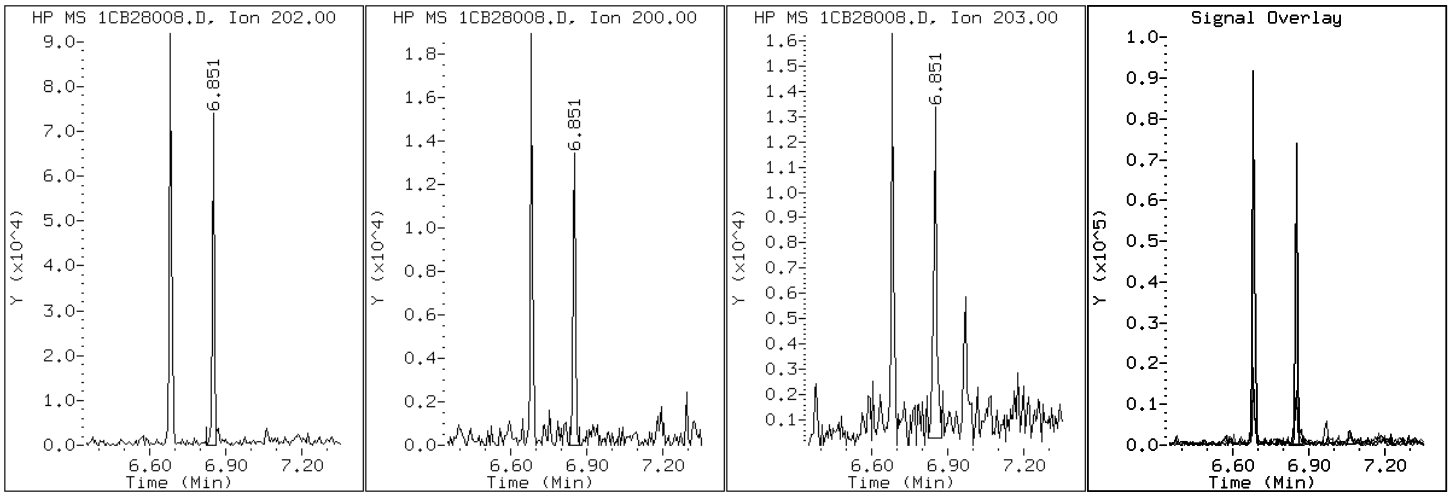
Data File: 1CB28008.D

Date: 28-FEB-2013 17:25

Client ID: FM0161AEE-GS Instrument: BSMC5973.i

Sample Info: 680-87655-a-58-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB28008.D
Inj. Date and Time: 28-FEB-2013 17:25
Instrument ID: BSMC5973.i
Client ID: FM0161AEE-GS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/04/2013

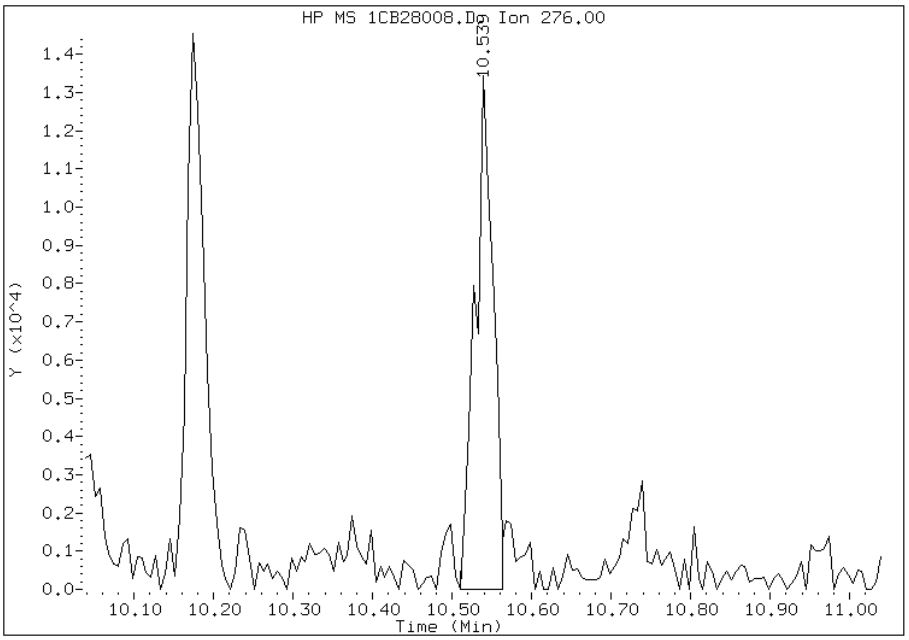
Processing Integration Results

RT: 10.54

Response: 21008

Amount: 0

Conc: 28



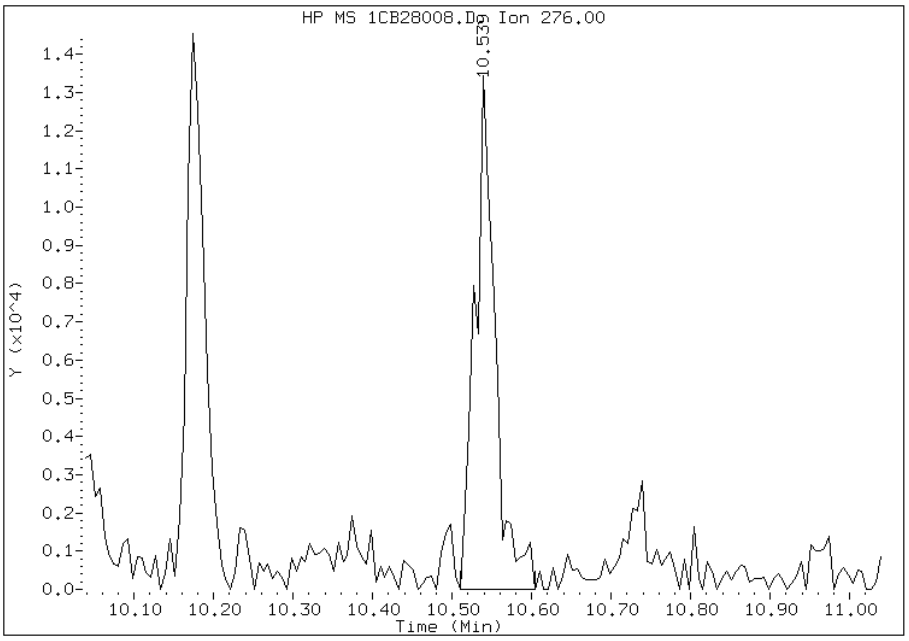
Manual Integration Results

RT: 10.54

Response: 23520

Amount: 0

Conc: 32



Manually Integrated By: cantins
Modification Date: 04-Mar-2013 10:58
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB28008.D
Inj. Date and Time: 28-FEB-2013 17:25
Instrument ID: BSMC5973.i
Client ID: FM0161AEE-GS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/04/2013

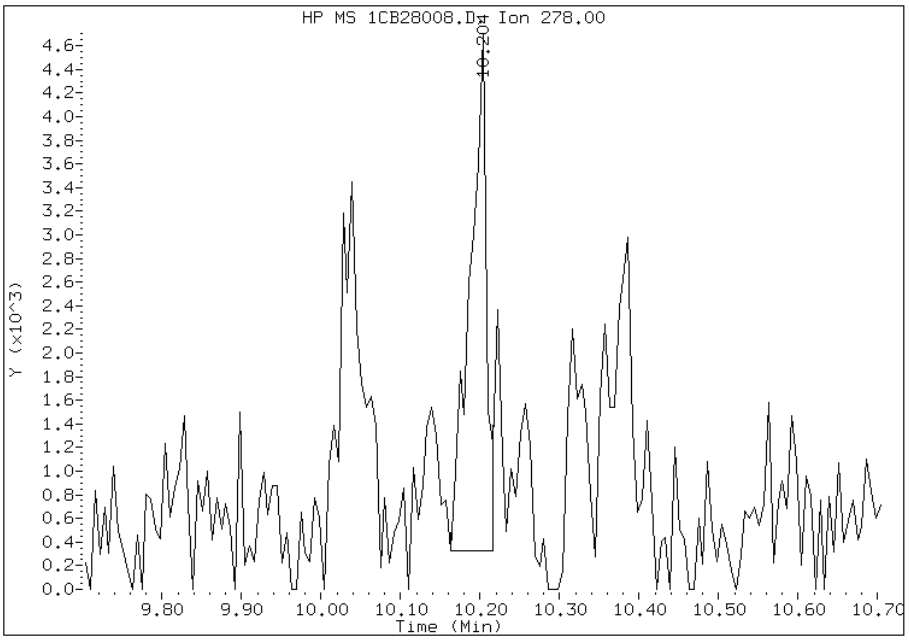
Processing Integration Results

RT: 10.20

Response: 6362

Amount: 0

Conc: 9



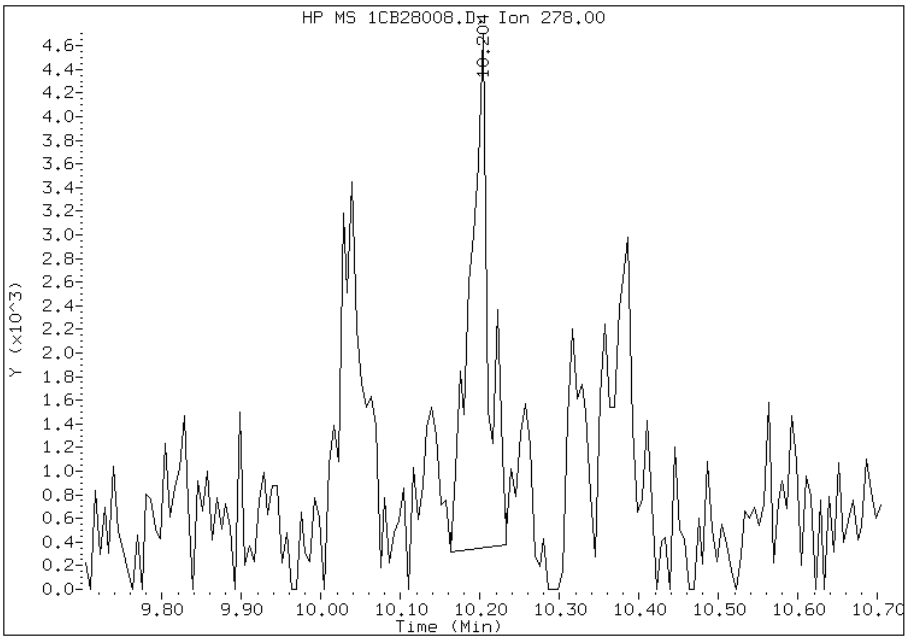
Manual Integration Results

RT: 10.20

Response: 7320

Amount: 0

Conc: 11



Manually Integrated By: cantins
Modification Date: 04-Mar-2013 10:58
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB28008.D
Inj. Date and Time: 28-FEB-2013 17:25
Instrument ID: BSMC5973.i
Client ID: FM0161AEE-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/04/2013

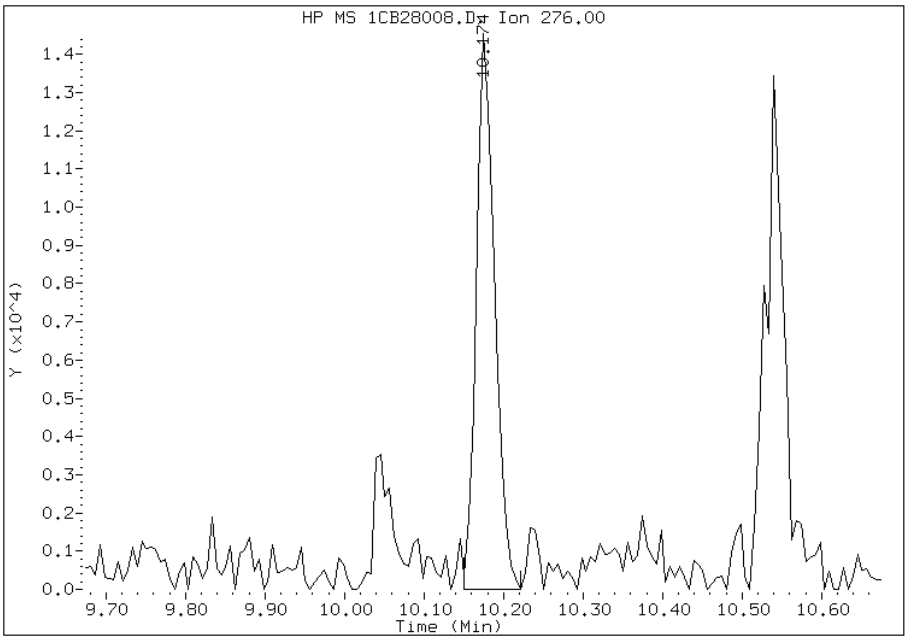
Processing Integration Results

RT: 10.17

Response: 23129

Amount: 0

Conc: 33



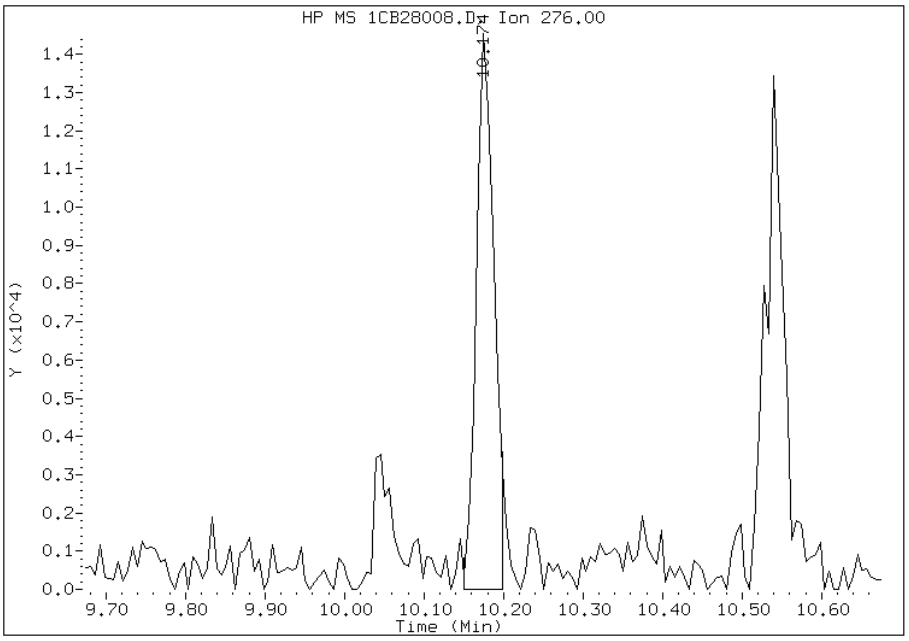
Manual Integration Results

RT: 10.17

Response: 22201

Amount: 0

Conc: 31



Manually Integrated By: cantins
Modification Date: 04-Mar-2013 10:58
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87655-3

SDG No.: 68087655-3

Client Sample ID: CV0038A-CS-SP | Lab Sample ID: 680-87655-59

Matrix: Solid | Lab File ID: 1CB28009.D

Analysis Method: 8270C LL | Date Collected: 02/19/2013 13:33

Extract. Method: 3546 | Date Extracted: 02/25/2013 15:00

Sample wt/vol: 15.33(g) | Date Analyzed: 02/28/2013 17:43

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

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

% Moisture: 29.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135011 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	550	U	550	110
208-96-8	Acenaphthylene	28	J	220	28
120-12-7	Anthracene	29	J	46	23
56-55-3	Benzo[a]anthracene	150		44	22
50-32-8	Benzo[a]pyrene	150		57	29
205-99-2	Benzo[b]fluoranthene	280		67	34
191-24-2	Benzo[g,h,i]perylene	130		110	24
207-08-9	Benzo[k]fluoranthene	94		44	20
218-01-9	Chrysene	200		50	25
53-70-3	Dibenz(a,h)anthracene	29	J	110	23
206-44-0	Fluoranthene	250		110	22
86-73-7	Fluorene	110	U	110	23
193-39-5	Indeno[1,2,3-cd]pyrene	100	J	110	39
90-12-0	1-Methylnaphthalene	83	J	220	24
91-57-6	2-Methylnaphthalene	73	J	220	39
91-20-3	Naphthalene	54	J	220	24
85-01-8	Phenanthrene	160		44	22
129-00-0	Pyrene	190		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	91		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022813.b\1CB28009.D
Lab Smp Id: 680-87655-A-59-A Client Smp ID: CV0038A-CS-SP
Inj Date : 28-FEB-2013 17:43
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87655-a-59-a
Misc Info : 680-87655-A-59-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022813.b\a-bFASTPAHi-m.m
Meth Date : 28-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 9
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	15.330	Weight Extracted
M	29.025	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.786	3.786	(1.000)	1504071	40.0000	
* 6 Acenaphthene-d10	164	4.874	4.874	(1.000)	1175370	40.0000	
* 10 Phenanthrene-d10	188	5.827	5.827	(1.000)	2351955	40.0000	
$ 14 o-Terphenyl	230	6.080	6.080	(1.043)	80952	2.27966	838.0803
* 18 Chrysene-d12	240	7.774	7.774	(1.000)	2682718	40.0000	
* 23 Perylene-d12	264	8.980	8.980	(1.000)	2641401	40.0000	
2 Naphthalene	128	3.798	3.798	(1.003)	5789	0.14784	54.3516(Q)
3 2-Methylnaphthalene	142	4.222	4.227	(1.115)	5209	0.19943	73.3178(Q)
4 1-Methylnaphthalene	142	4.286	4.286	(1.132)	5385	0.22637	83.2216
5 Acenaphthylene	152	4.786	4.786	(0.982)	3636	0.07673	28.2083
11 Phenanthrene	178	5.839	5.845	(1.002)	29890	0.43951	161.5771
12 Anthracene	178	5.874	5.874	(1.008)	5200	0.07818	28.7422
15 Fluoranthene	202	6.680	6.680	(1.146)	50202	0.67406	247.8066
16 Pyrene	202	6.851	6.851	(0.881)	37668	0.52248	192.0822

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Benzo(a)anthracene	228	7.768	7.762	(0.999)	30984	0.40016	147.1133
19 Chrysene	228	7.792	7.792	(1.002)	42252	0.54528	200.4637
20 Benzo(b)fluoranthene	252	8.621	8.621	(0.960)	52375	0.75873	278.9353(M)
21 Benzo(k)fluoranthene	252	8.645	8.651	(0.963)	18195	0.25694	94.4604(QM)
22 Benzo(a)pyrene	252	8.921	8.927	(0.993)	27636	0.41217	151.5266
24 Indeno(1,2,3-cd)pyrene	276	10.180	10.186	(1.134)	17100	0.27110	99.6669(M)
25 Dibenzo(a,h)anthracene	278	10.186	10.203	(1.134)	4913	0.07963	29.2752
26 Benzo(g,h,i)perylene	276	10.545	10.545	(1.174)	23080	0.34979	128.5949

QC Flag Legend

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

Data File: 1CB28009.D

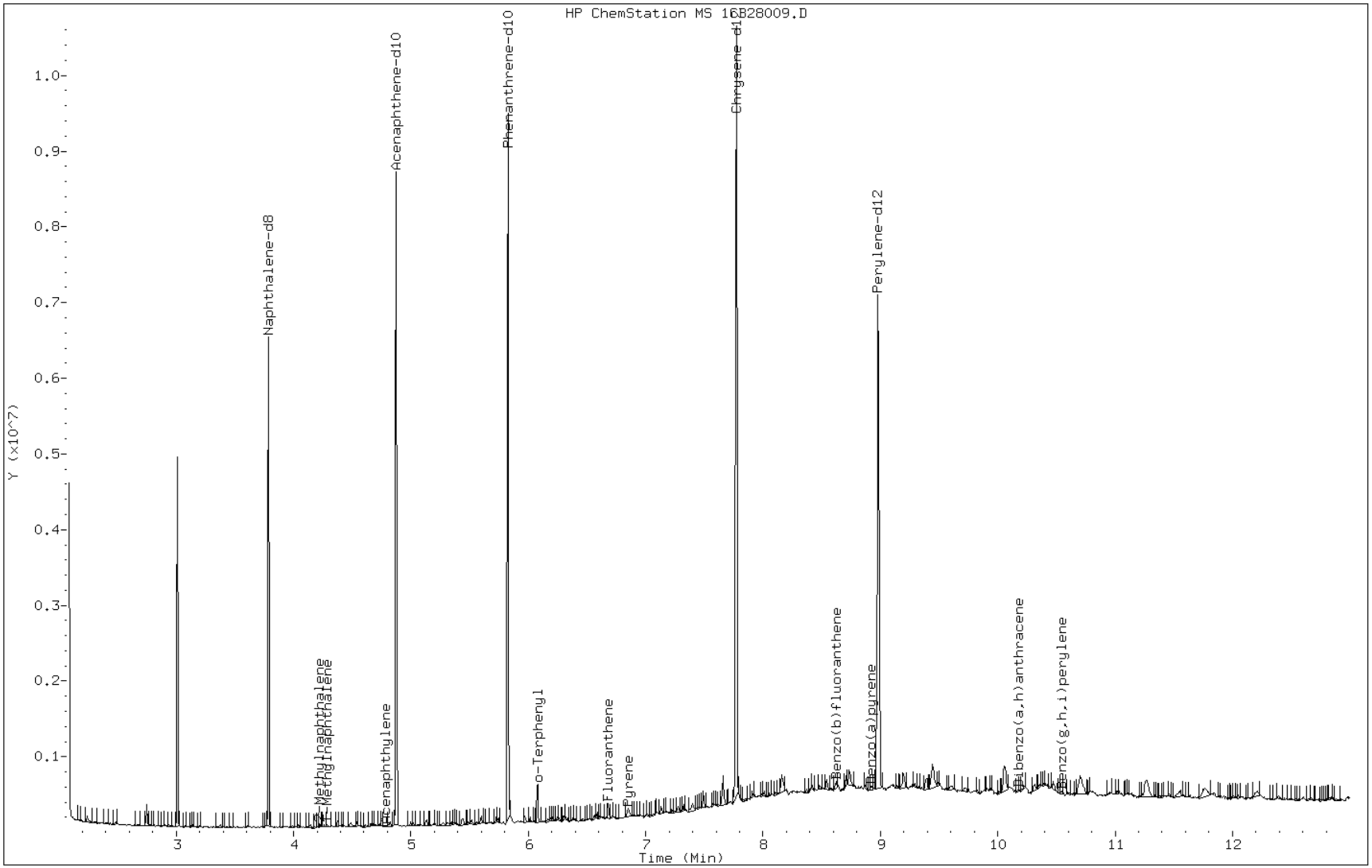
Date: 28-FEB-2013 17:43

Client ID: CV0038A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-87655-a-59-a

Operator: SCC



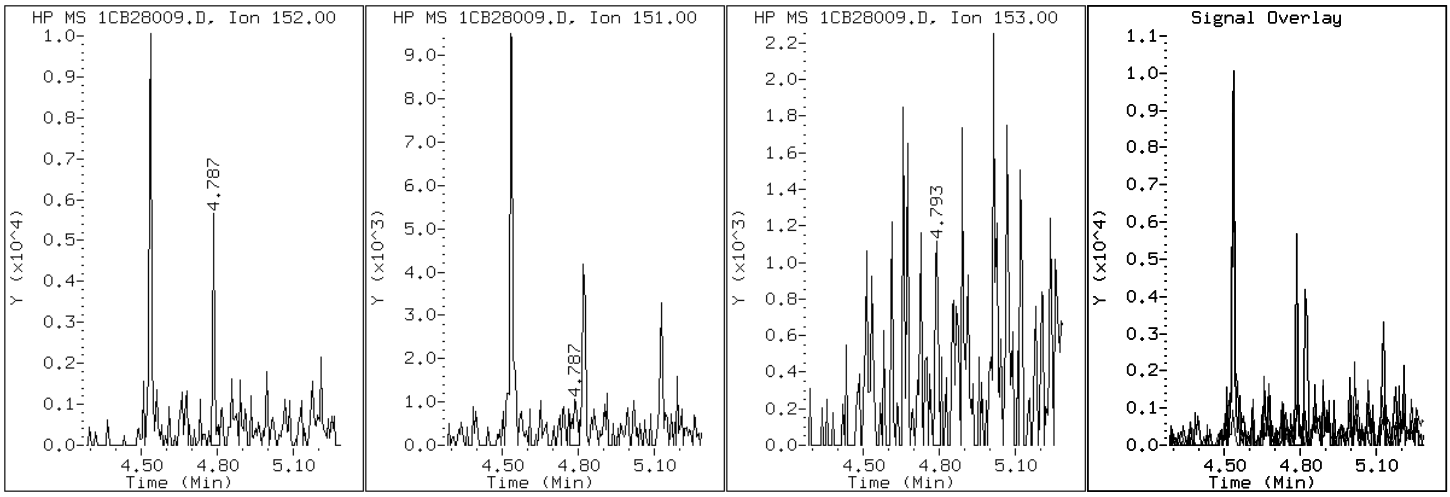
Data File: 1CB28009.D

Date: 28-FEB-2013 17:43

Client ID: CV0038A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-59-a Operator: SCC

5 Acenaphthylene



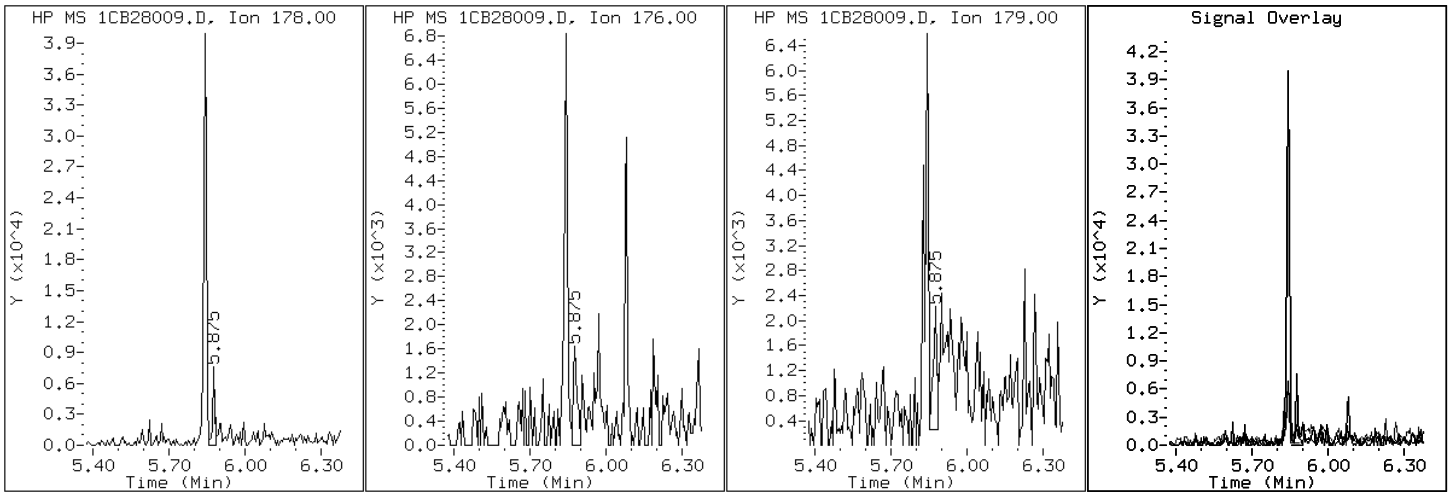
Data File: 1CB28009.D

Date: 28-FEB-2013 17:43

Client ID: CV0038A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-59-a Operator: SCC

12 Anthracene



Data File: 1CB28009.D

Date: 28-FEB-2013 17:43

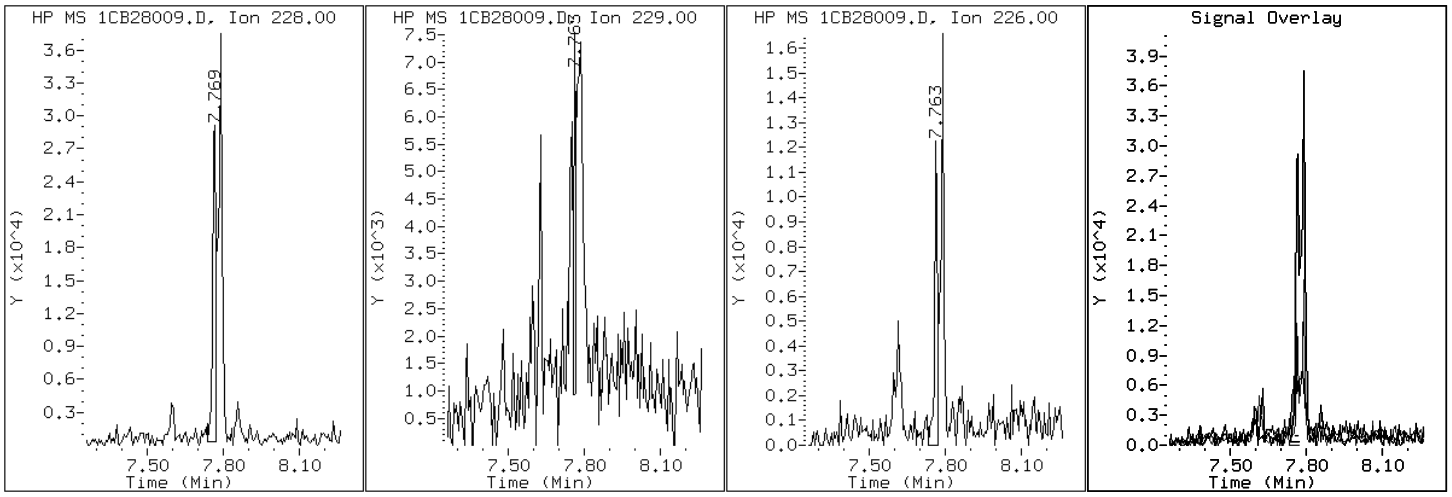
Client ID: CV0038A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-87655-a-59-a

Operator: SCC

17 Benzo(a)anthracene



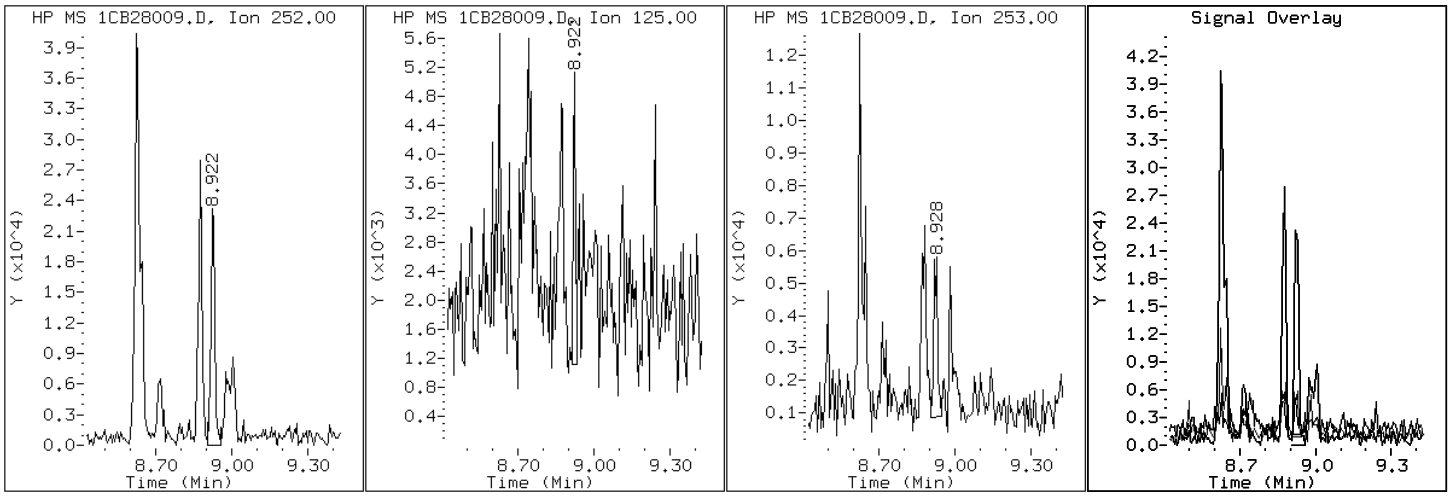
Data File: 1CB28009.D

Date: 28-FEB-2013 17:43

Client ID: CV0038A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-59-a Operator: SCC

22 Benzo(a)pyrene



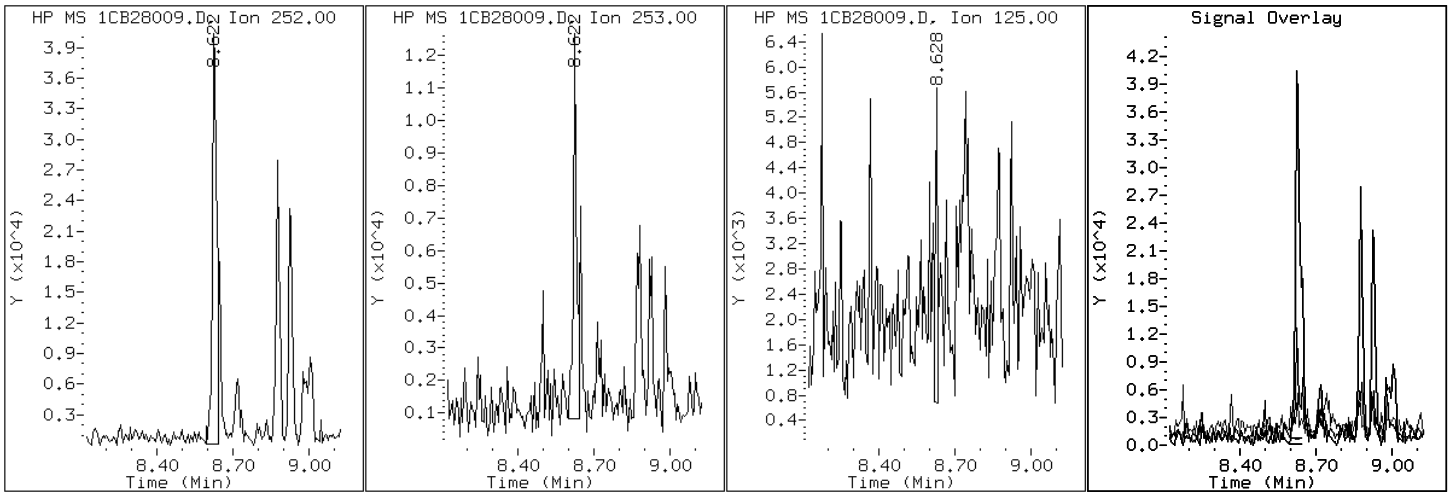
Data File: 1CB28009.D

Date: 28-FEB-2013 17:43

Client ID: CV0038A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-59-a Operator: SCC

20 Benzo(b)fluoranthene



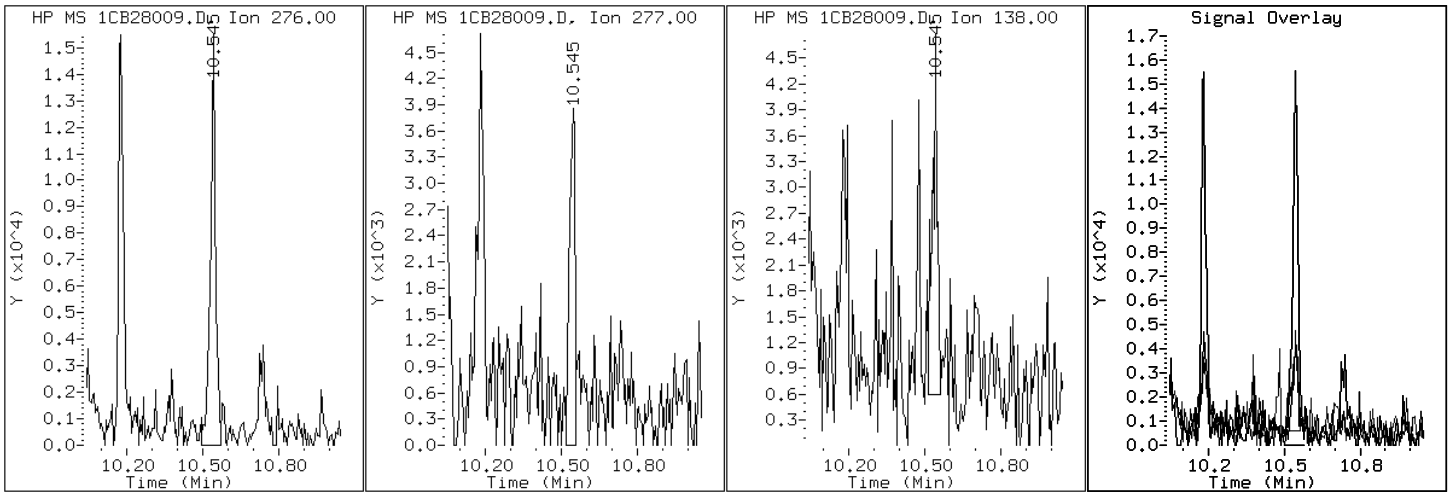
Data File: 1CB28009.D

Date: 28-FEB-2013 17:43

Client ID: CV0038A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-59-a Operator: SCC

26 Benzo(g,h,i)perylene



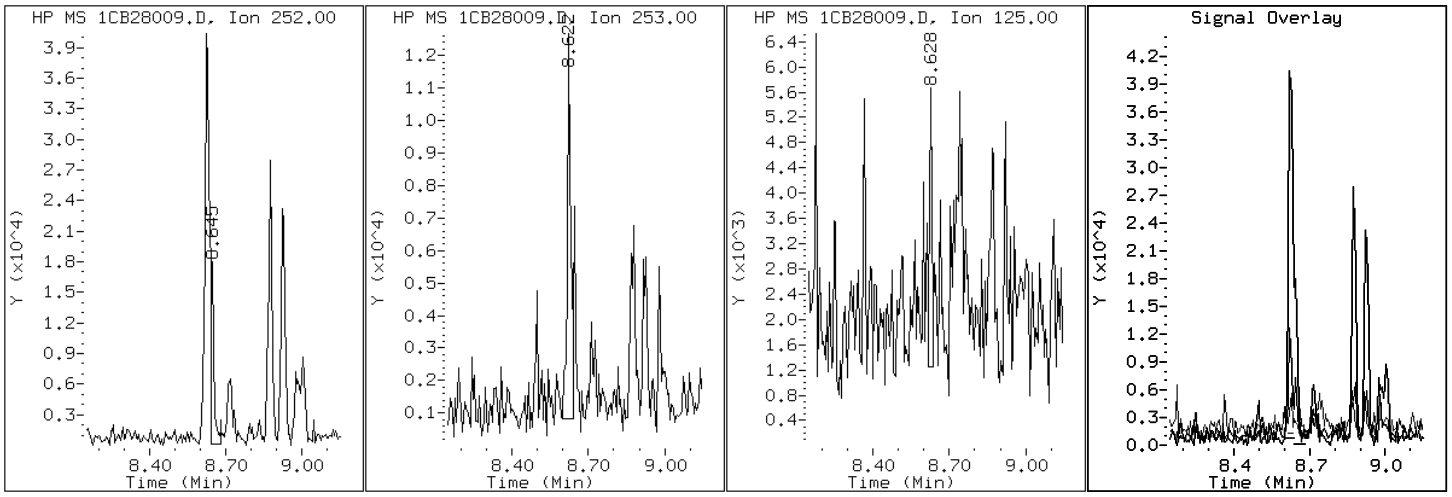
Data File: 1CB28009.D

Date: 28-FEB-2013 17:43

Client ID: CV0038A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-59-a Operator: SCC

21 Benzo(k)fluoranthene



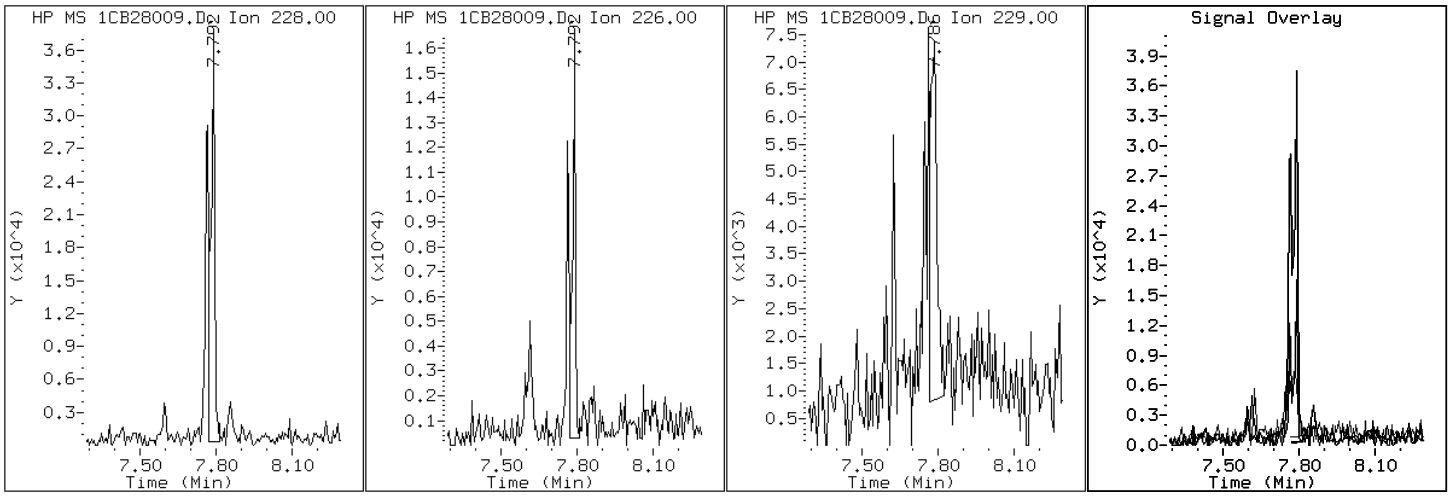
Data File: 1CB28009.D

Date: 28-FEB-2013 17:43

Client ID: CV0038A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-59-a Operator: SCC

19 Chrysene



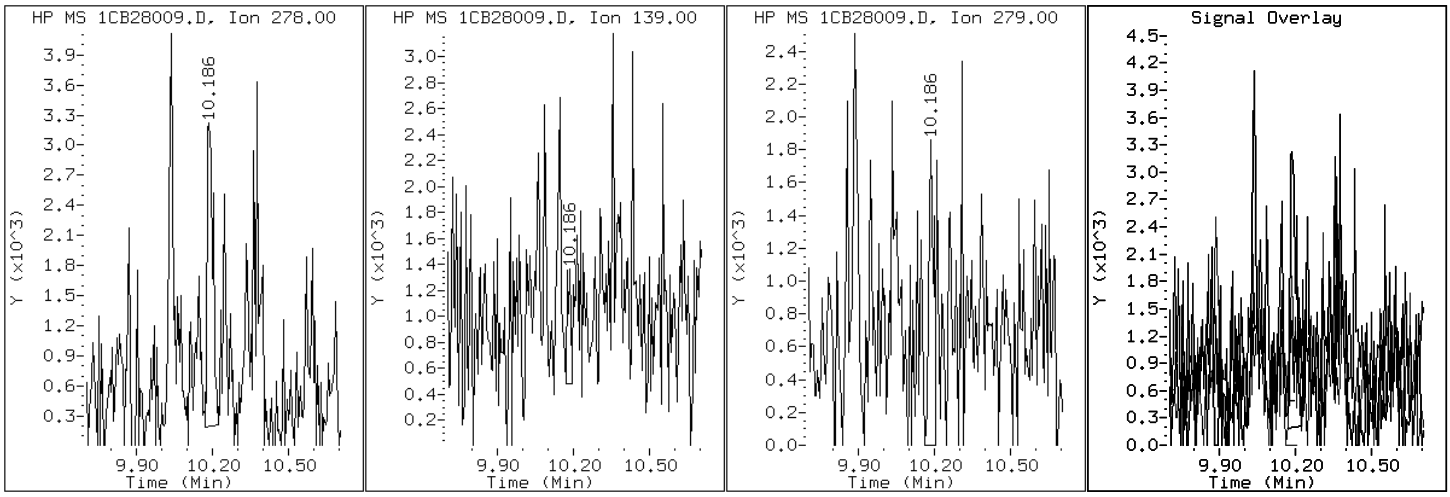
Data File: 1CB28009.D

Date: 28-FEB-2013 17:43

Client ID: CV0038A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-59-a Operator: SCC

25 Dibenzo(a,h)anthracene



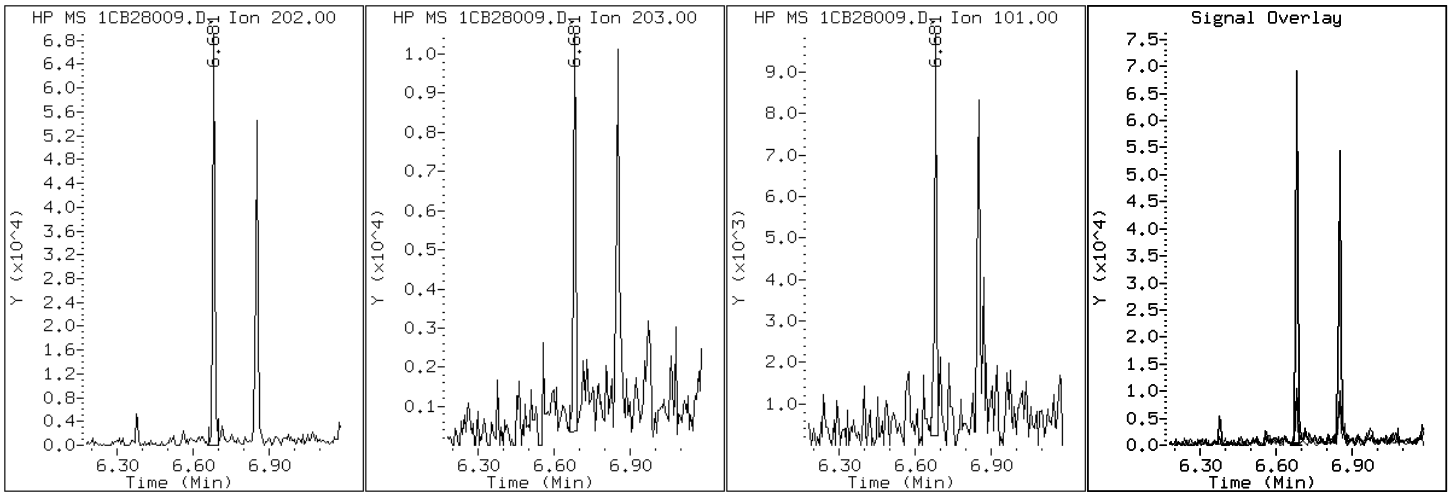
Data File: 1CB28009.D

Date: 28-FEB-2013 17:43

Client ID: CV0038A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-59-a Operator: SCC

15 Fluoranthene



Data File: 1CB28009.D

Date: 28-FEB-2013 17:43

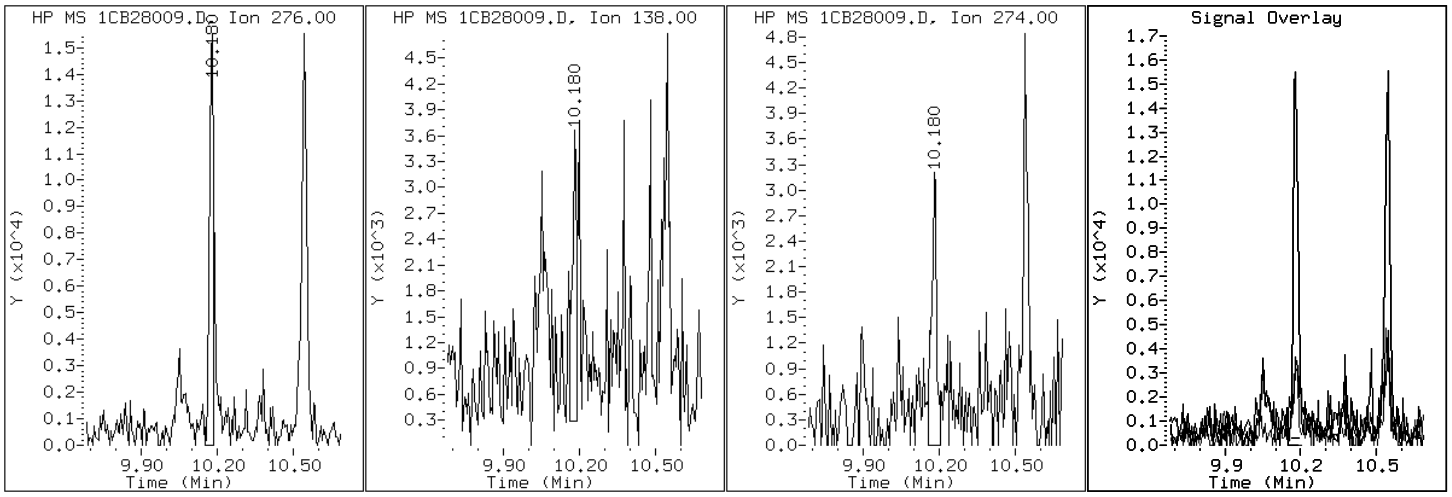
Client ID: CV0038A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-87655-a-59-a

Operator: SCC

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



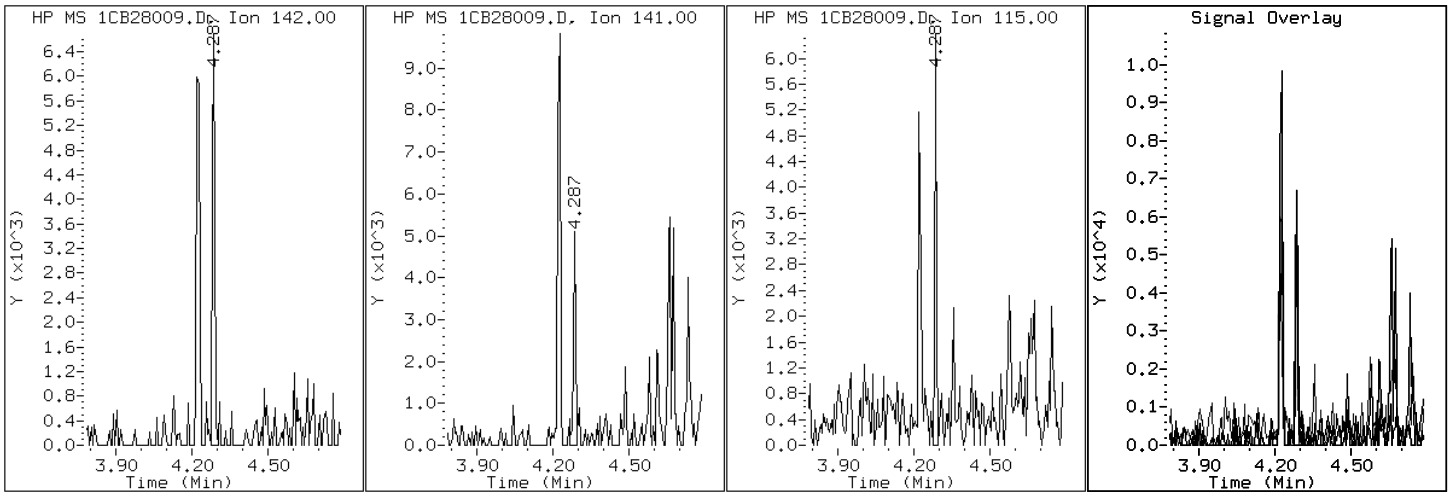
Data File: 1CB28009.D

Date: 28-FEB-2013 17:43

Client ID: CV0038A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-59-a Operator: SCC

4 1-Methylnaphthalene



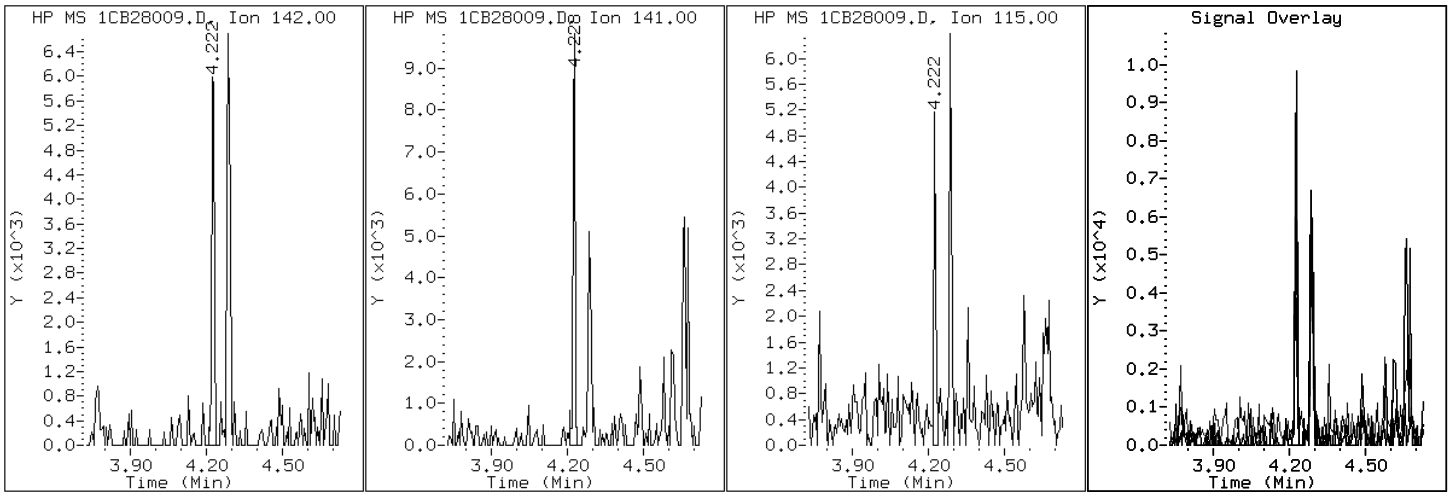
Data File: 1CB28009.D

Date: 28-FEB-2013 17:43

Client ID: CV0038A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-59-a Operator: SCC

3 2-Methylnaphthalene



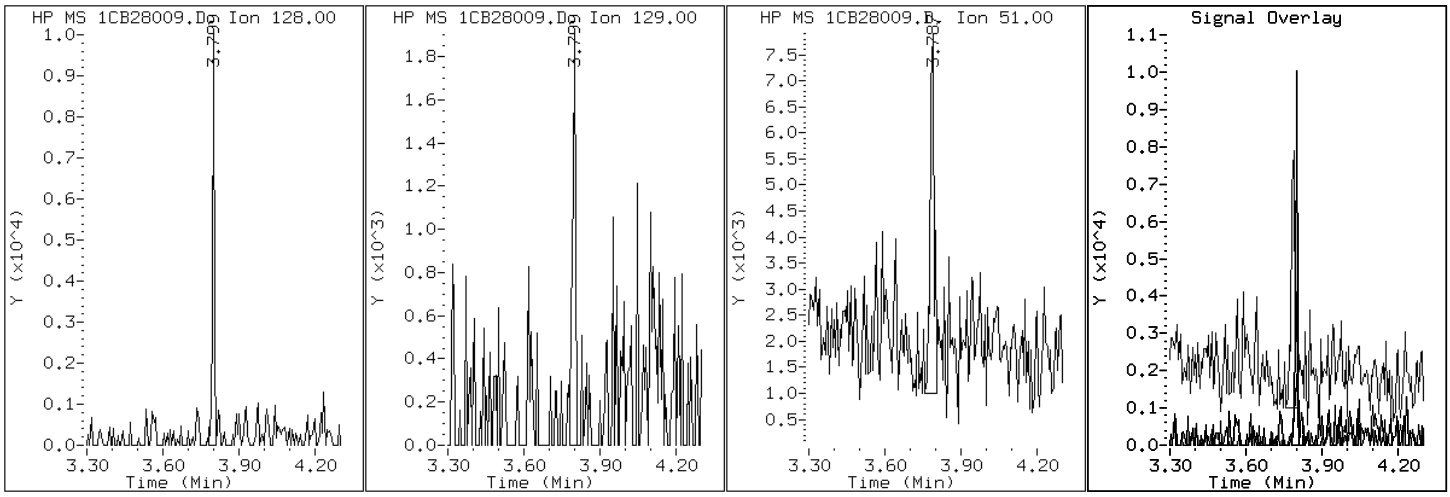
Data File: 1CB28009.D

Date: 28-FEB-2013 17:43

Client ID: CV0038A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-59-a Operator: SCC

2 Naphthalene



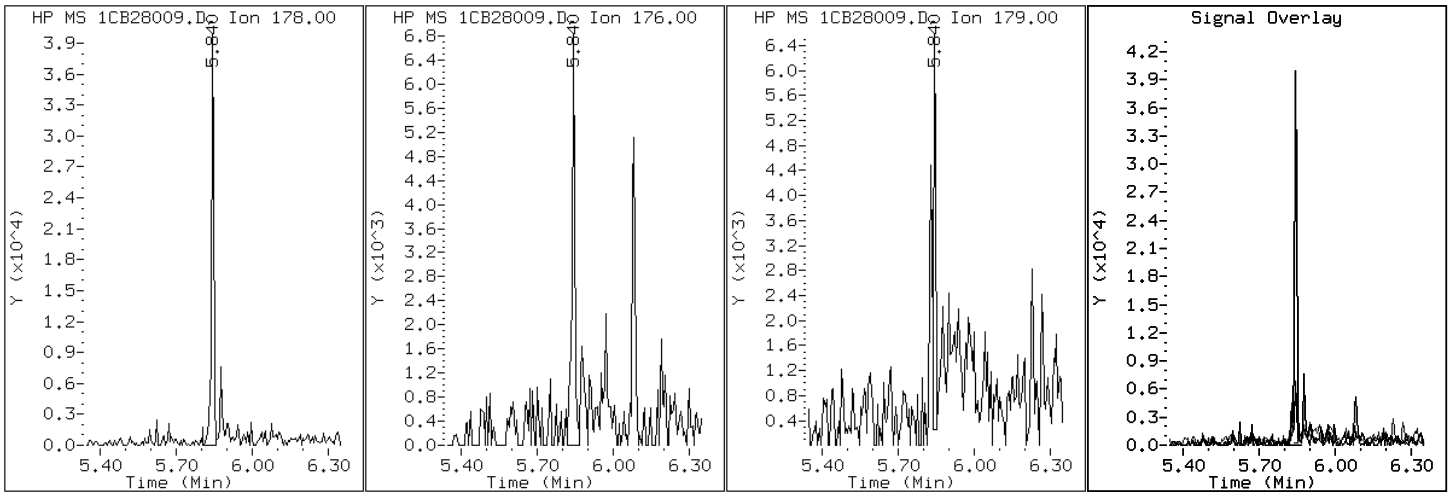
Data File: 1CB28009.D

Date: 28-FEB-2013 17:43

Client ID: CV0038A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-59-a Operator: SCC

11 Phenanthrene



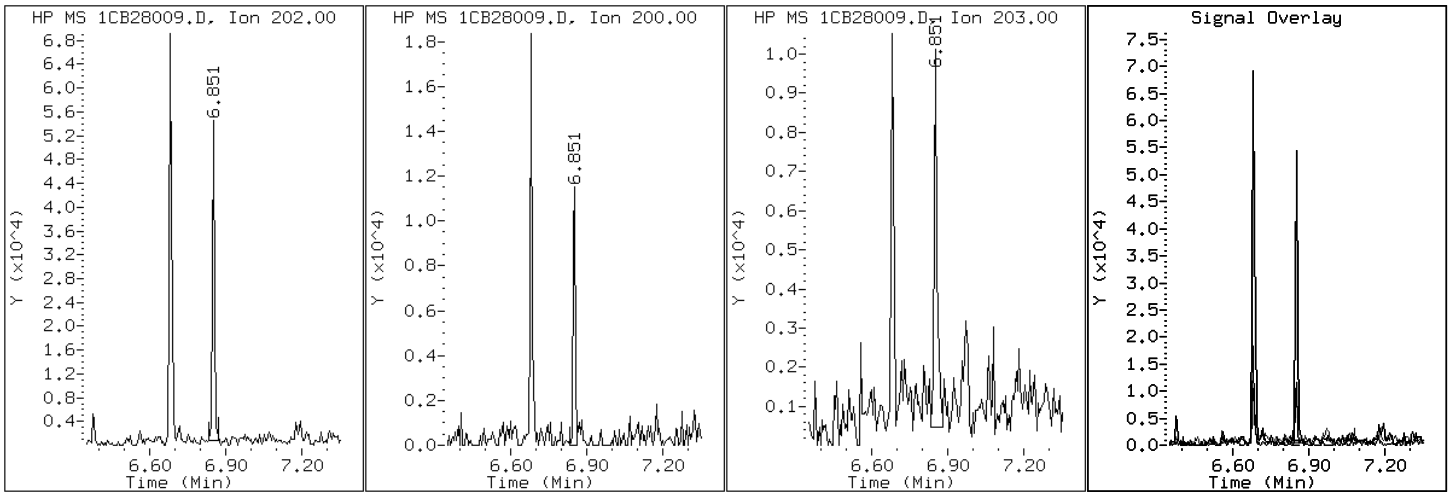
Data File: 1CB28009.D

Date: 28-FEB-2013 17:43

Client ID: CV0038A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-59-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB28009.D
Inj. Date and Time: 28-FEB-2013 17:43
Instrument ID: BSMC5973.i
Client ID: CV0038A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/04/2013

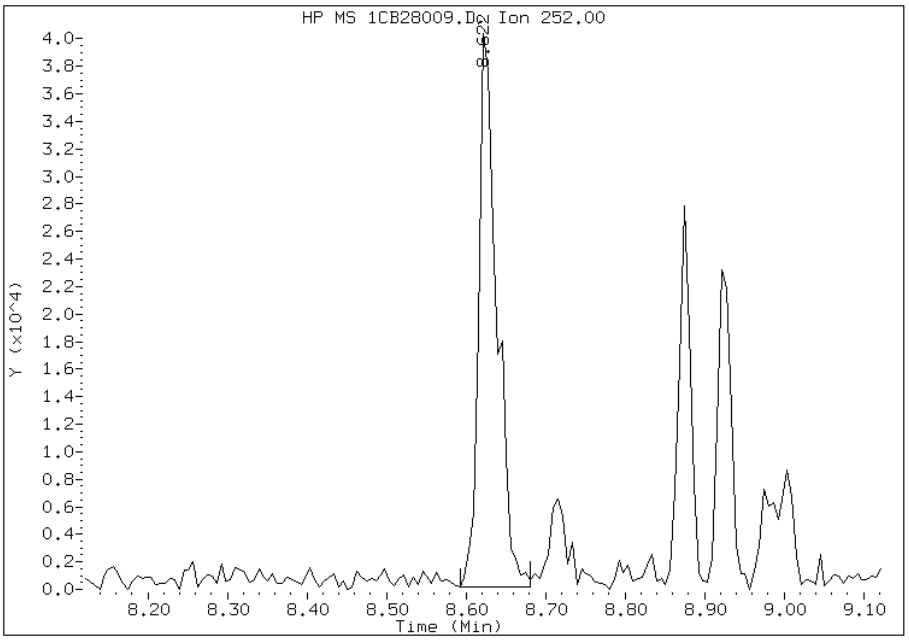
Processing Integration Results

RT: 8.62

Response: 64615

Amount: 1

Conc: 344



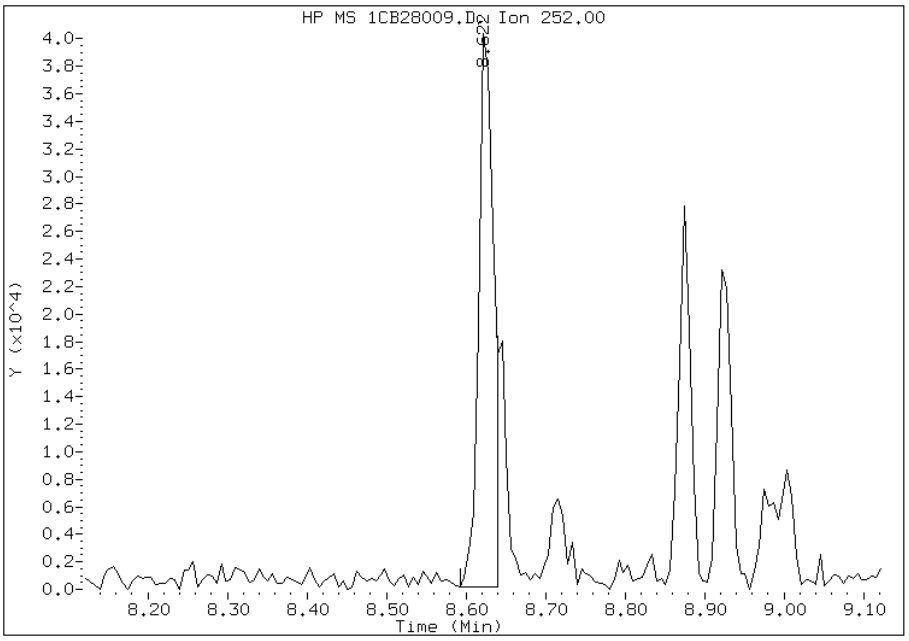
Manual Integration Results

RT: 8.62

Response: 52375

Amount: 1

Conc: 279



Manually Integrated By: cantins
Modification Date: 04-Mar-2013 10:59
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB28009.D
Inj. Date and Time: 28-FEB-2013 17:43
Instrument ID: BSMC5973.i
Client ID: CV0038A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/04/2013

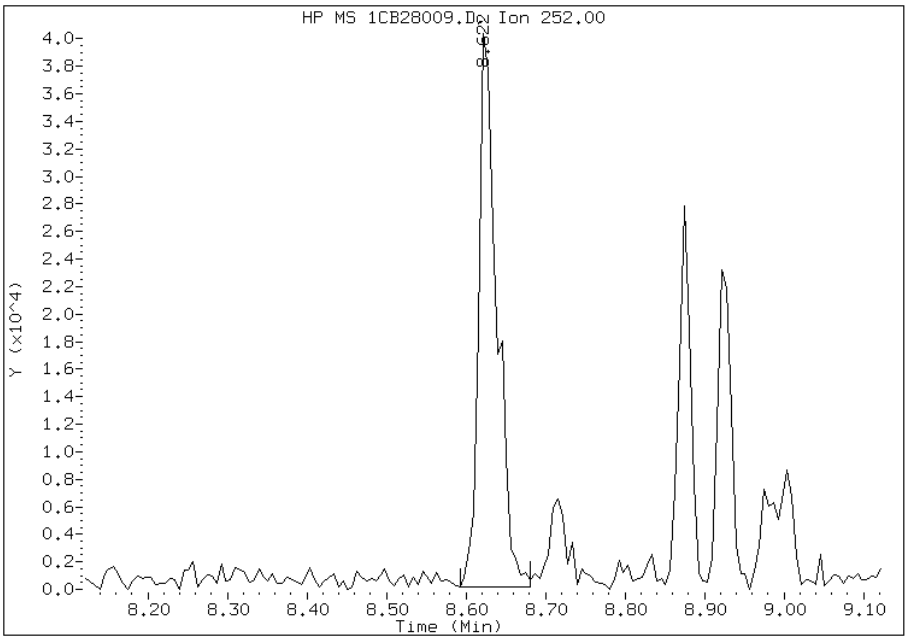
Processing Integration Results

RT: 8.62

Response: 64615

Amount: 1

Conc: 335



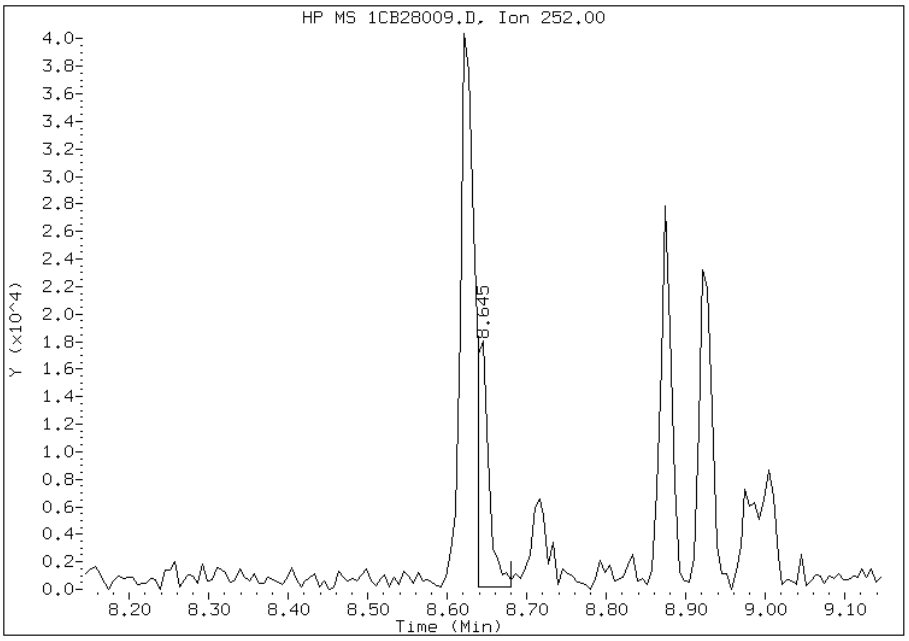
Manual Integration Results

RT: 8.65

Response: 18195

Amount: 0

Conc: 94



Manually Integrated By: cantins
Modification Date: 04-Mar-2013 10:59
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB28009.D
Inj. Date and Time: 28-FEB-2013 17:43
Instrument ID: BSMC5973.i
Client ID: CV0038A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/04/2013

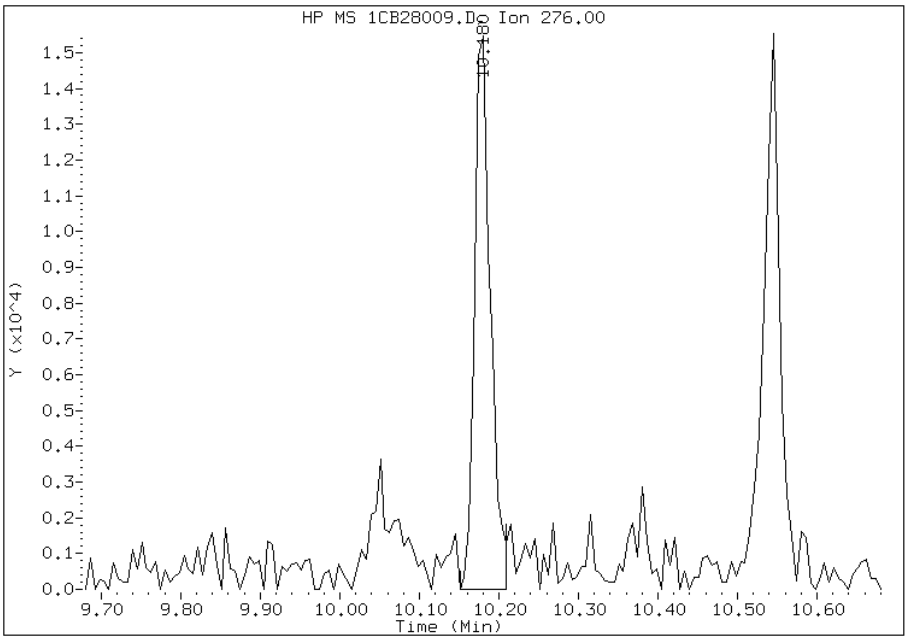
Processing Integration Results

RT: 10.18

Response: 21420

Amount: 0

Conc: 125



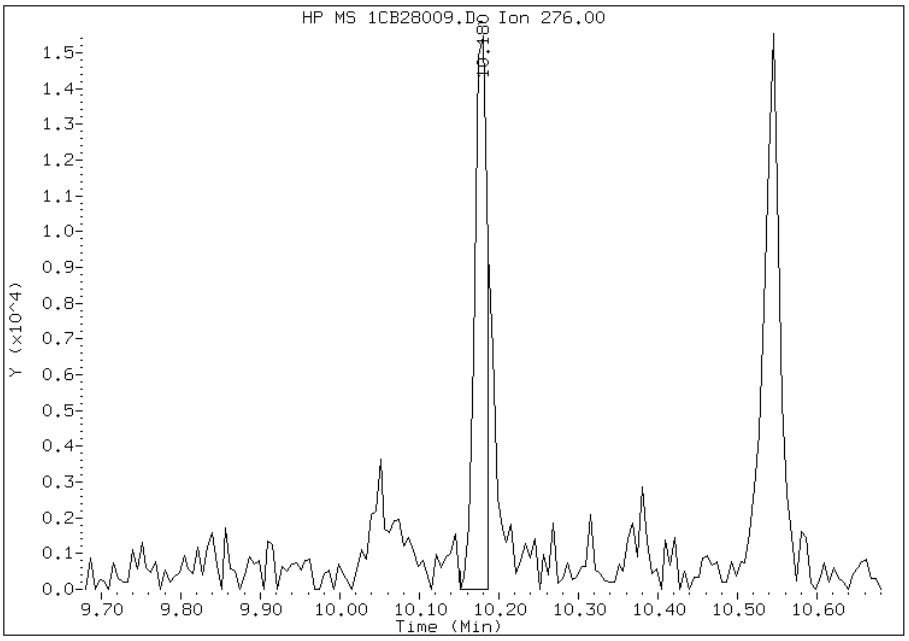
Manual Integration Results

RT: 10.18

Response: 17100

Amount: 0

Conc: 100



Manually Integrated By: cantins
Modification Date: 04-Mar-2013 11:00
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87655-3

SDG No.: 68087655-3

Client Sample ID: CV0038B-CS-SP | Lab Sample ID: 680-87655-60

Matrix: Solid | Lab File ID: 1CB28010.D

Analysis Method: 8270C LL | Date Collected: 02/19/2013 13:51

Extract. Method: 3546 | Date Extracted: 02/25/2013 15:00

Sample wt/vol: 15.11(g) | Date Analyzed: 02/28/2013 18:02

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

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

% Moisture: 20.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135011 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	99
208-96-8	Acenaphthylene	88	J	200	25
120-12-7	Anthracene	80		42	21
56-55-3	Benzo[a]anthracene	470		40	19
50-32-8	Benzo[a]pyrene	500		52	26
205-99-2	Benzo[b]fluoranthene	950		61	30
191-24-2	Benzo[g,h,i]perylene	450		99	22
207-08-9	Benzo[k]fluoranthene	380		40	18
218-01-9	Chrysene	690		45	22
53-70-3	Dibenz(a,h)anthracene	150		99	20
206-44-0	Fluoranthene	640		99	20
86-73-7	Fluorene	38	J	99	20
193-39-5	Indeno[1,2,3-cd]pyrene	340		99	35
90-12-0	1-Methylnaphthalene	200		200	22
91-57-6	2-Methylnaphthalene	290		200	35
91-20-3	Naphthalene	250		200	22
85-01-8	Phenanthrene	470		40	19
129-00-0	Pyrene	600		99	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	90		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022813.b\1CB28010.D
Lab Smp Id: 680-87655-A-60-A Client Smp ID: CV0038B-CS-SP
Inj Date : 28-FEB-2013 18:02
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87655-a-60-a
Misc Info : 680-87655-A-60-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022813.b\a-bFASTPAHi-m.m
Meth Date : 28-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 10
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	15.110	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	3.786	3.786	(1.000)	1601643	40.0000	
* 6 Acenaphthene-d10	164	4.874	4.874	(1.000)	1308271	40.0000	
* 10 Phenanthrene-d10	188	5.827	5.827	(1.000)	2485752	40.0000	
$ 14 o-Terphenyl	230	6.080	6.080	(1.043)	84830	2.26029	747.9443
* 18 Chrysene-d12	240	7.774	7.774	(1.000)	2738642	40.0000	
* 23 Perylene-d12	264	8.986	8.980	(1.000)	2612642	40.0000	
2 Naphthalene	128	3.798	3.798	(1.003)	31619	0.75831	250.9289
3 2-Methylnaphthalene	142	4.227	4.227	(1.116)	24586	0.88396	292.5068
4 1-Methylnaphthalene	142	4.286	4.286	(1.132)	15076	0.59515	196.9382
5 Acenaphthylene	152	4.786	4.786	(0.982)	13990	0.26524	87.7685
9 Fluorene	166	5.216	5.216	(1.070)	4709	0.11357	37.5827(Q)
11 Phenanthrene	178	5.839	5.845	(1.002)	102876	1.43128	473.6198
12 Anthracene	178	5.874	5.874	(1.008)	16930	0.24084	79.6960
13 Carbazole	167	5.986	5.986	(1.027)	10306	0.16493	54.5760

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.680	6.680	(1.146)	152586	1.93849	641.4583
16 Pyrene	202	6.851	6.851	(0.881)	133459	1.81337	600.0575
17 Benzo(a)anthracene	228	7.768	7.762	(0.999)	111254	1.40752	465.7581
19 Chrysene	228	7.792	7.792	(1.002)	164928	2.08501	689.9429
20 Benzo(b)fluoranthene	252	8.627	8.621	(0.960)	196764	2.88180	953.6084(M)
21 Benzo(k)fluoranthene	252	8.645	8.651	(0.962)	81207	1.15939	383.6509(QMH)
22 Benzo(a)pyrene	252	8.921	8.927	(0.993)	100858	1.52077	503.2329
24 Indeno(1,2,3-cd)pyrene	276	10.174	10.186	(1.132)	63410	1.01637	336.3237(MH)
25 Dibenzo(a,h)anthracene	278	10.198	10.203	(1.135)	27484	0.45037	149.0316
26 Benzo(g,h,i)perylene	276	10.545	10.545	(1.173)	88990	1.36354	451.2055

QC Flag Legend

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

Data File: 1CB28010.D

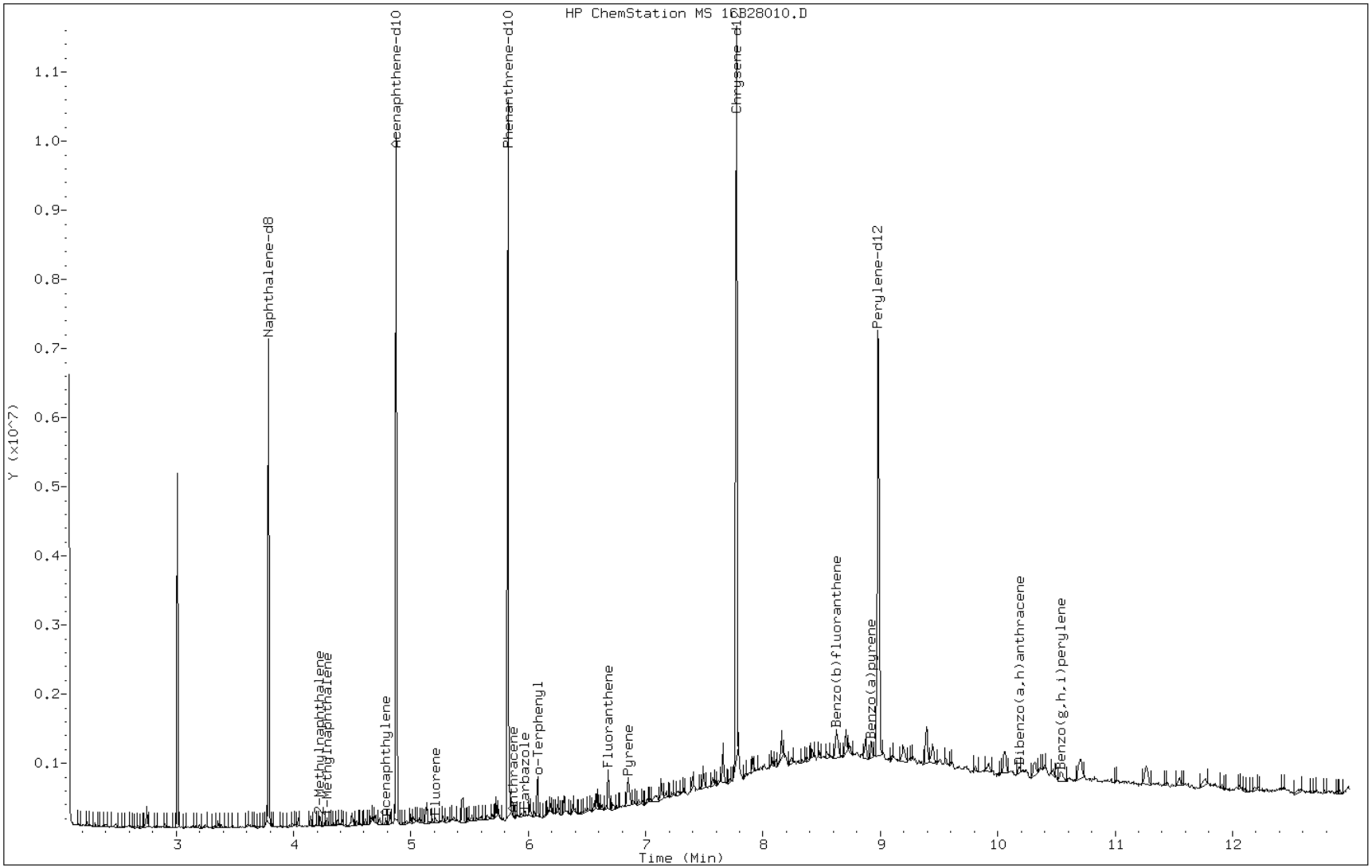
Date: 28-FEB-2013 18:02

Client ID: CV0038B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-87655-a-60-a

Operator: SCC



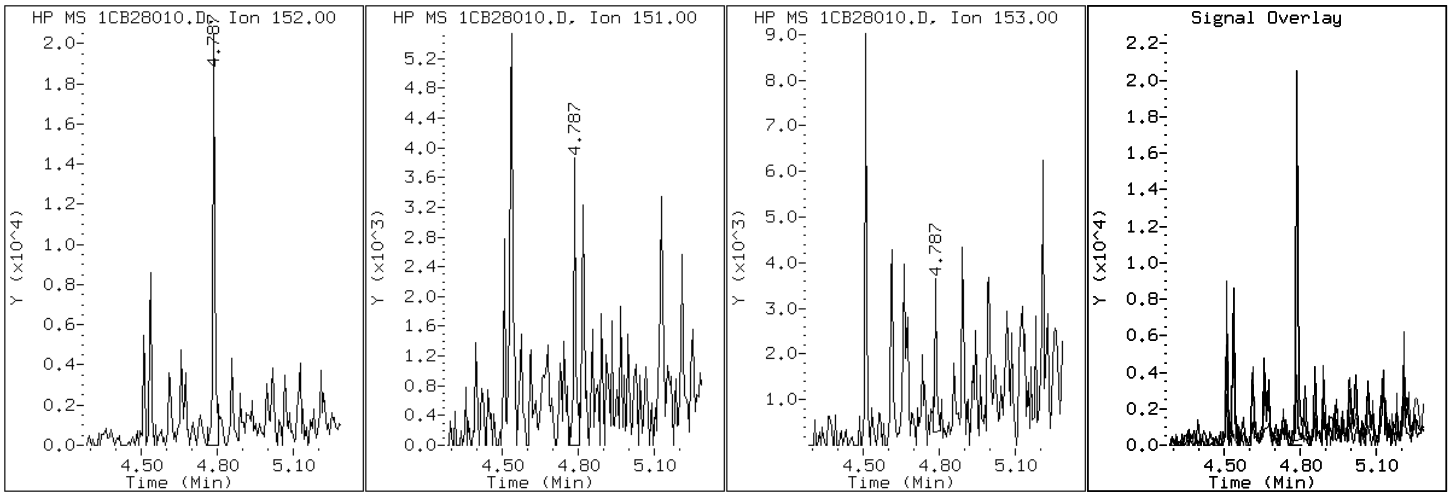
Data File: 1CB28010.D

Date: 28-FEB-2013 18:02

Client ID: CV0038B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-60-a Operator: SCC

5 Acenaphthylene



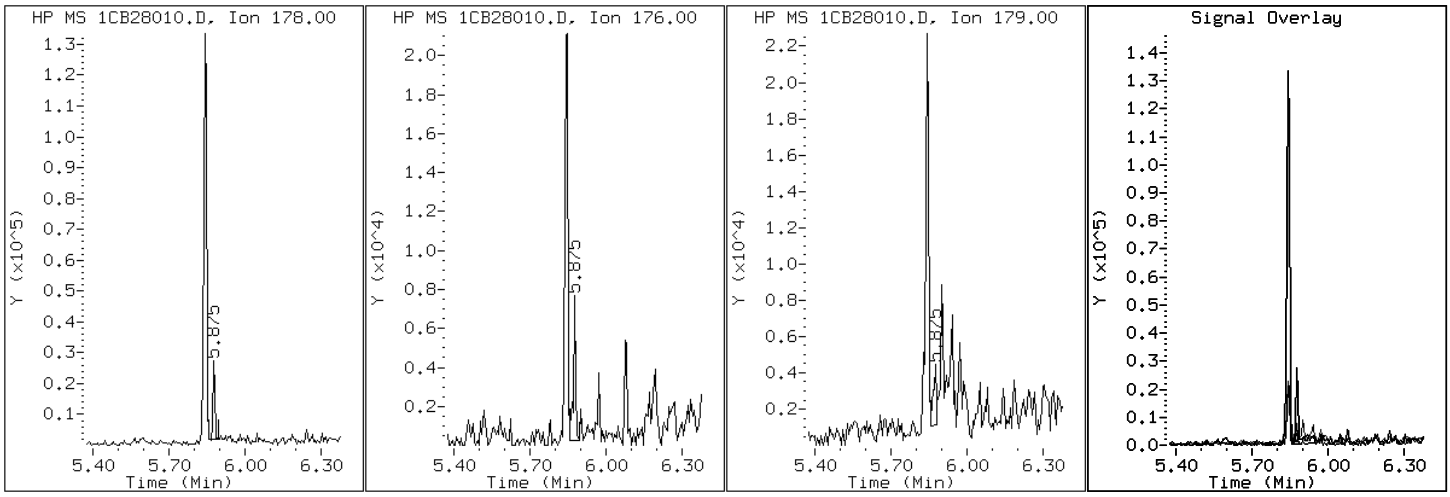
Data File: 1CB28010.D

Date: 28-FEB-2013 18:02

Client ID: CV0038B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-60-a Operator: SCC

12 Anthracene



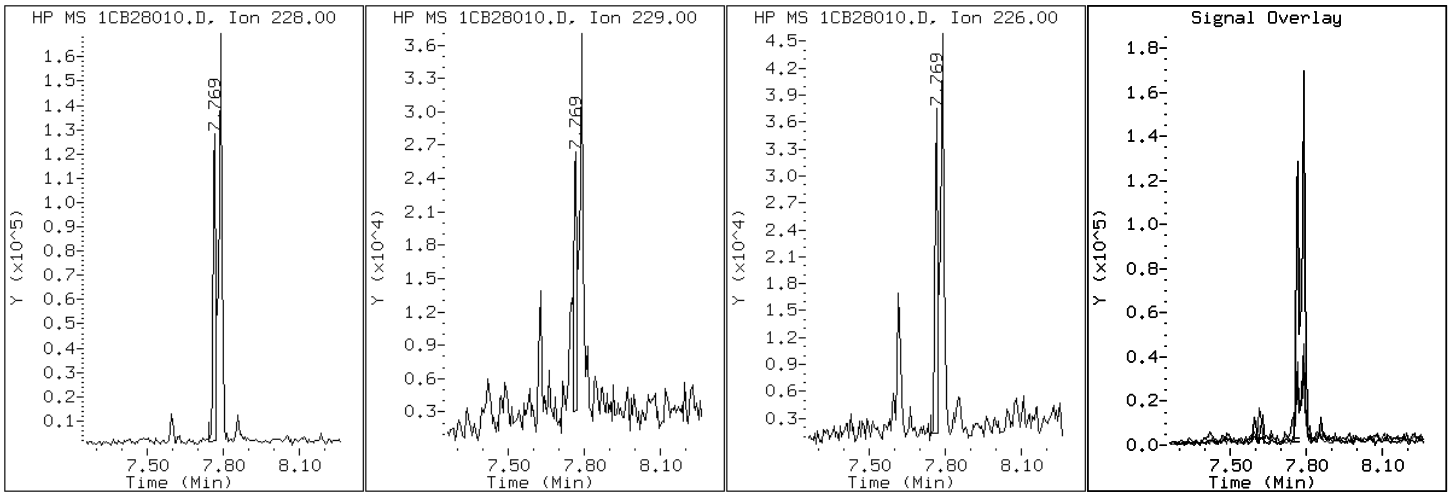
Data File: 1CB28010.D

Date: 28-FEB-2013 18:02

Client ID: CV0038B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-60-a Operator: SCC

17 Benzo(a)anthracene



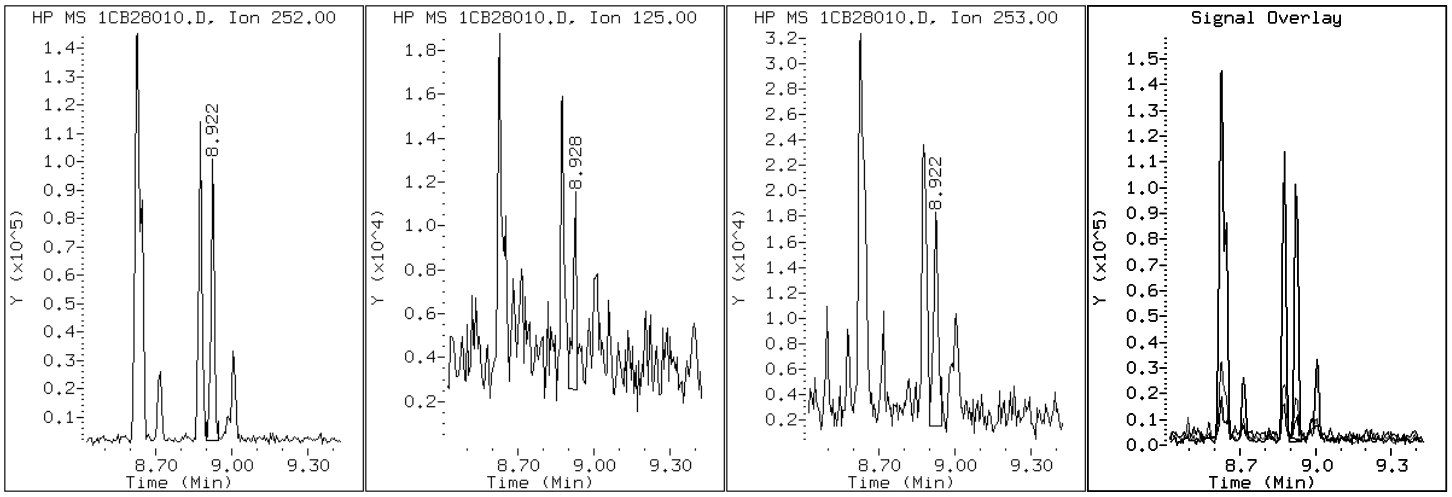
Data File: 1CB28010.D

Date: 28-FEB-2013 18:02

Client ID: CV0038B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-60-a Operator: SCC

22 Benzo(a)pyrene



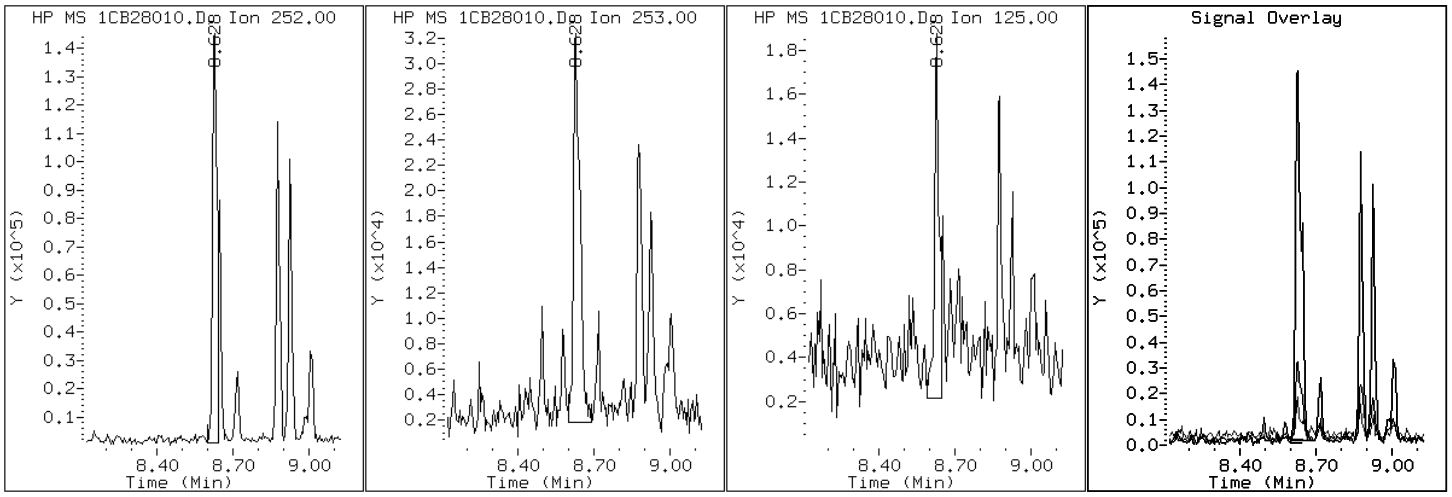
Data File: 1CB28010.D

Date: 28-FEB-2013 18:02

Client ID: CV0038B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-60-a Operator: SCC

20 Benzo(b)fluoranthene



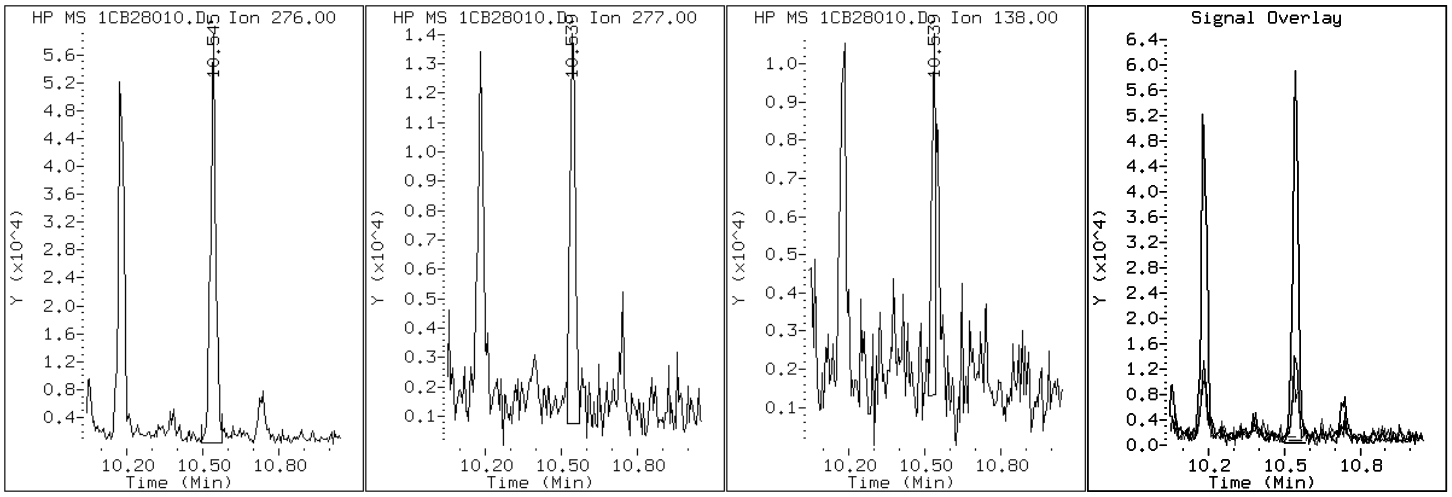
Data File: 1CB28010.D

Date: 28-FEB-2013 18:02

Client ID: CV0038B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-60-a Operator: SCC

26 Benzo(g,h,i)perylene



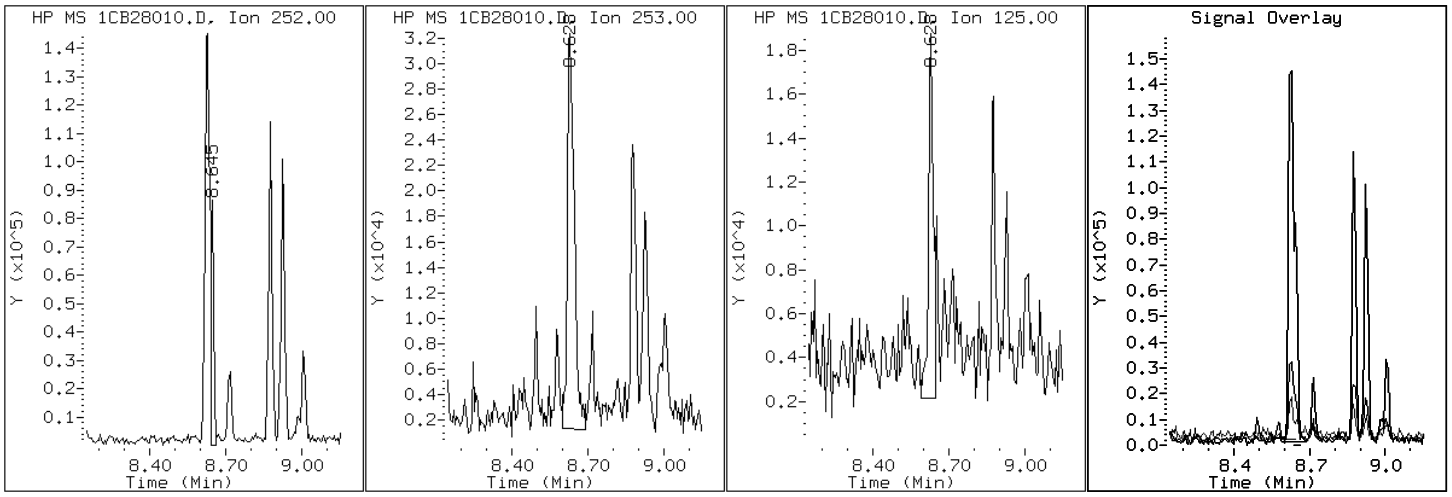
Data File: 1CB28010.D

Date: 28-FEB-2013 18:02

Client ID: CV0038B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-60-a Operator: SCC

21 Benzo(k)fluoranthene



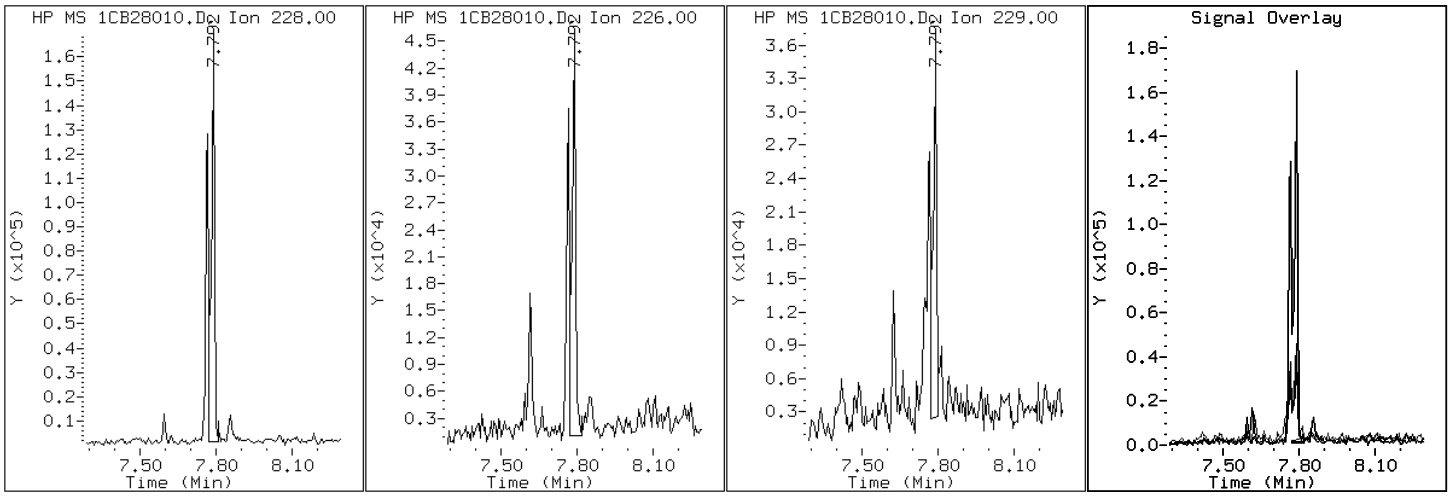
Data File: 1CB28010.D

Date: 28-FEB-2013 18:02

Client ID: CV0038B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-60-a Operator: SCC

19 Chrysene



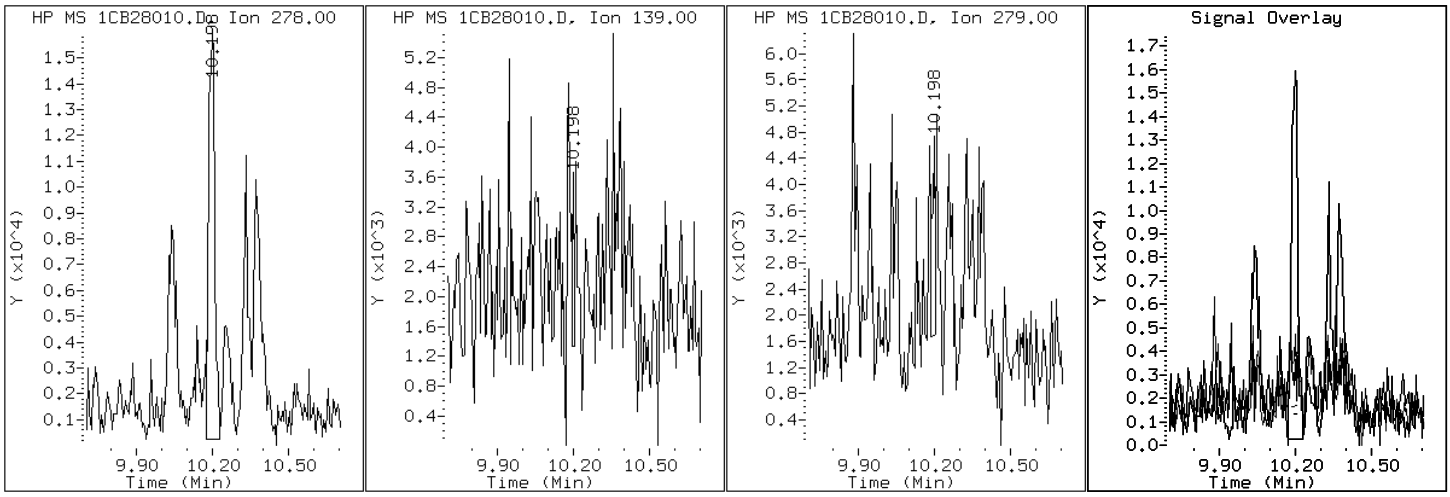
Data File: 1CB28010.D

Date: 28-FEB-2013 18:02

Client ID: CV0038B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-60-a Operator: SCC

25 Dibenzo(a,h)anthracene



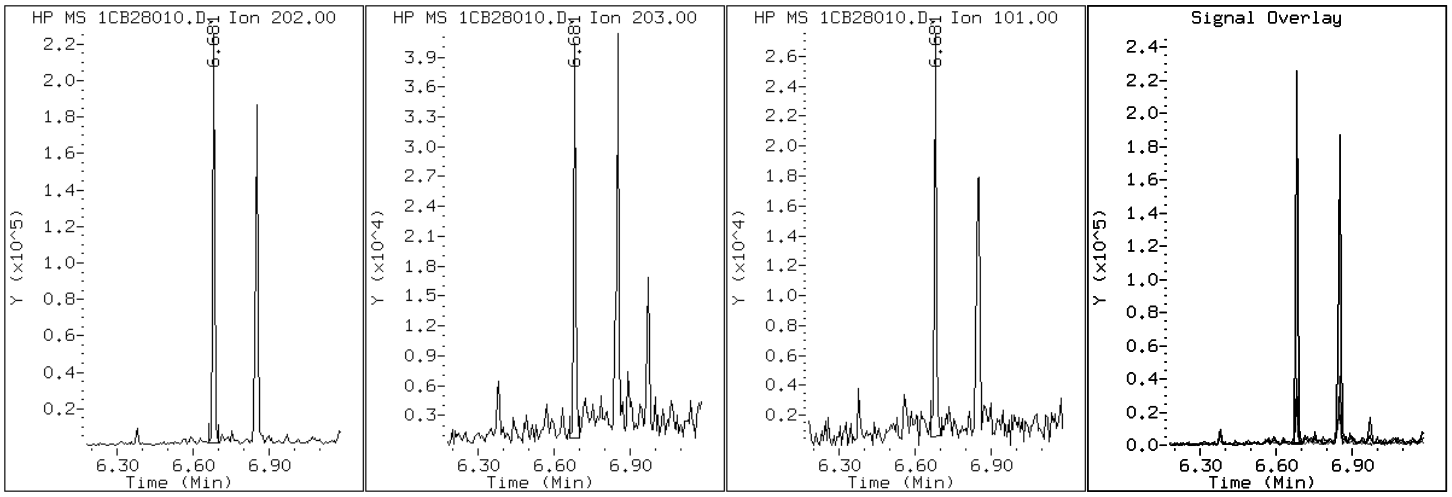
Data File: 1CB28010.D

Date: 28-FEB-2013 18:02

Client ID: CV0038B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-60-a Operator: SCC

15 Fluoranthene



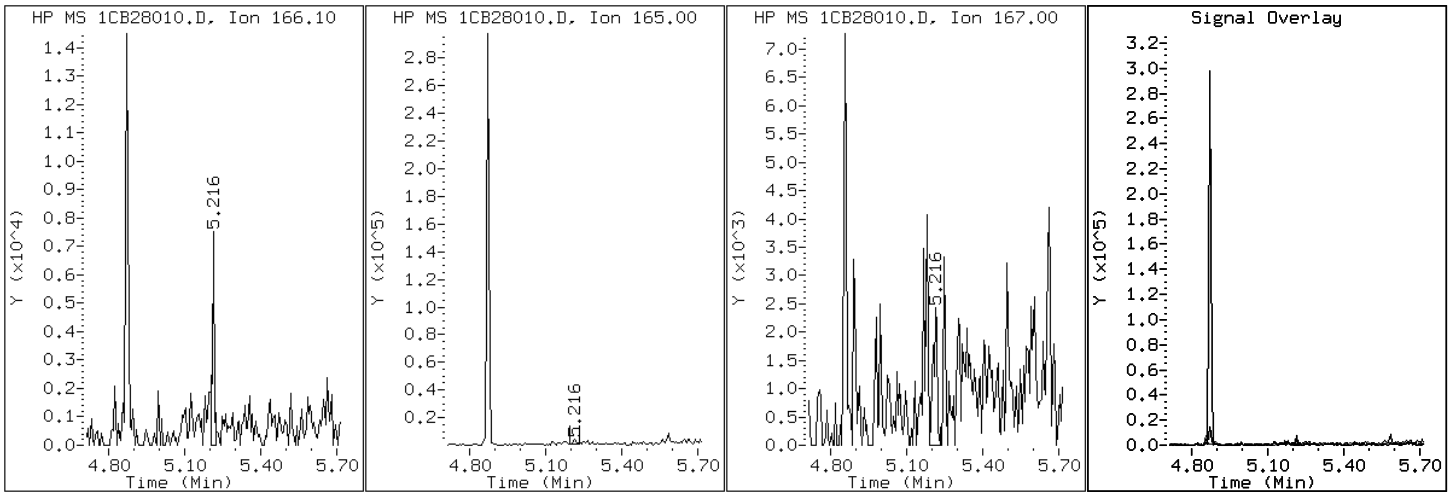
Data File: 1CB28010.D

Date: 28-FEB-2013 18:02

Client ID: CV0038B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-60-a Operator: SCC

9 Fluorene



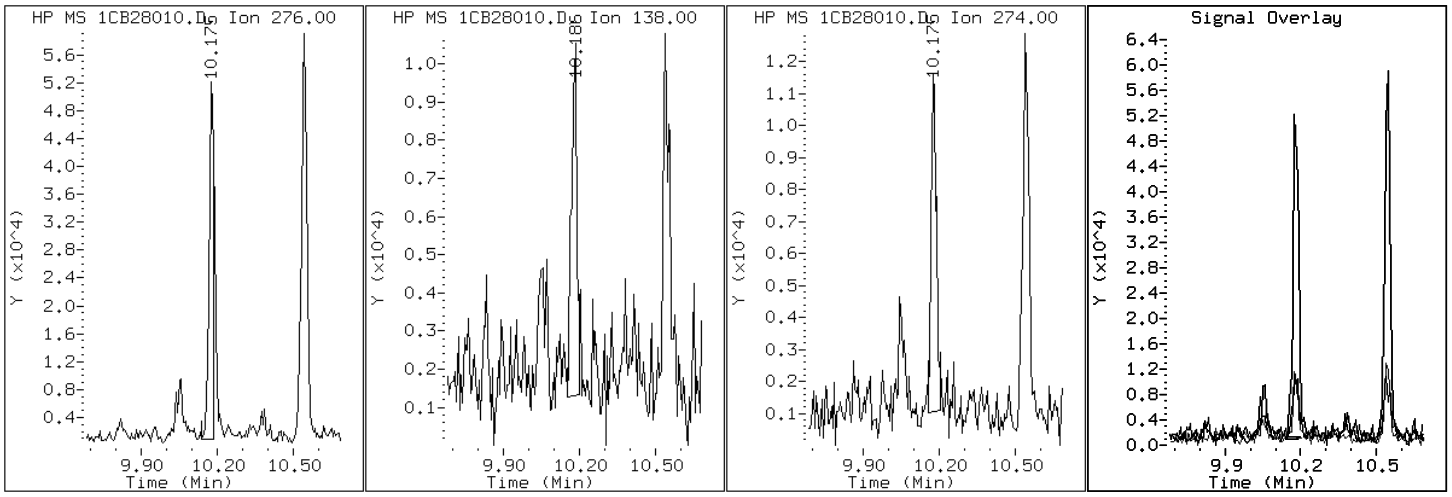
Data File: 1CB28010.D

Date: 28-FEB-2013 18:02

Client ID: CV0038B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-60-a Operator: SCC

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



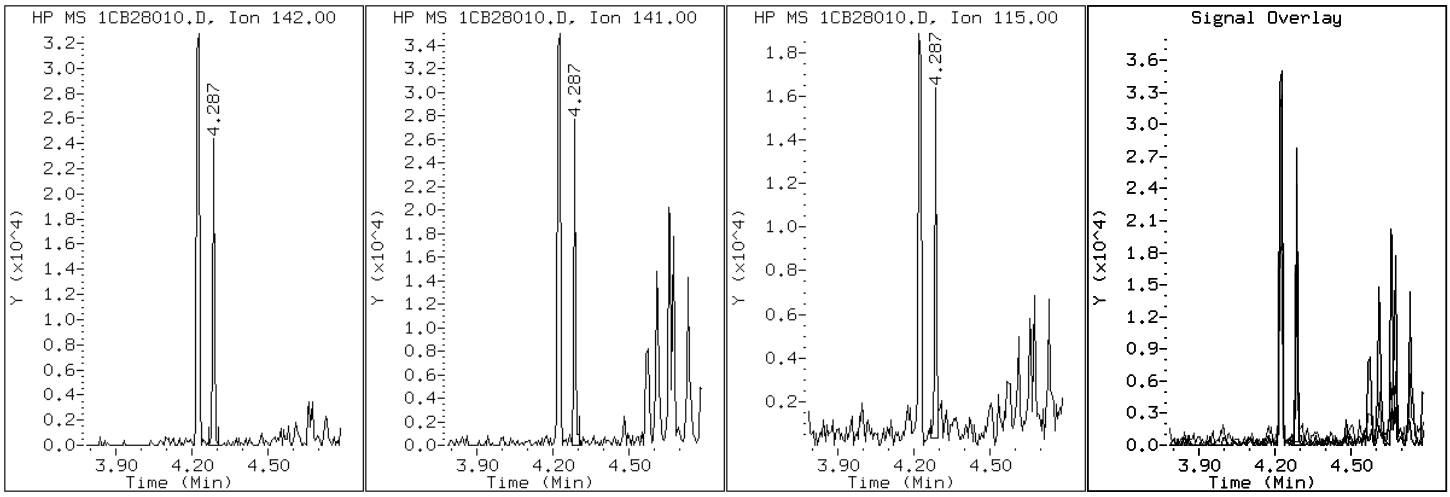
Data File: 1CB28010.D

Date: 28-FEB-2013 18:02

Client ID: CV0038B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-60-a Operator: SCC

4 1-Methylnaphthalene



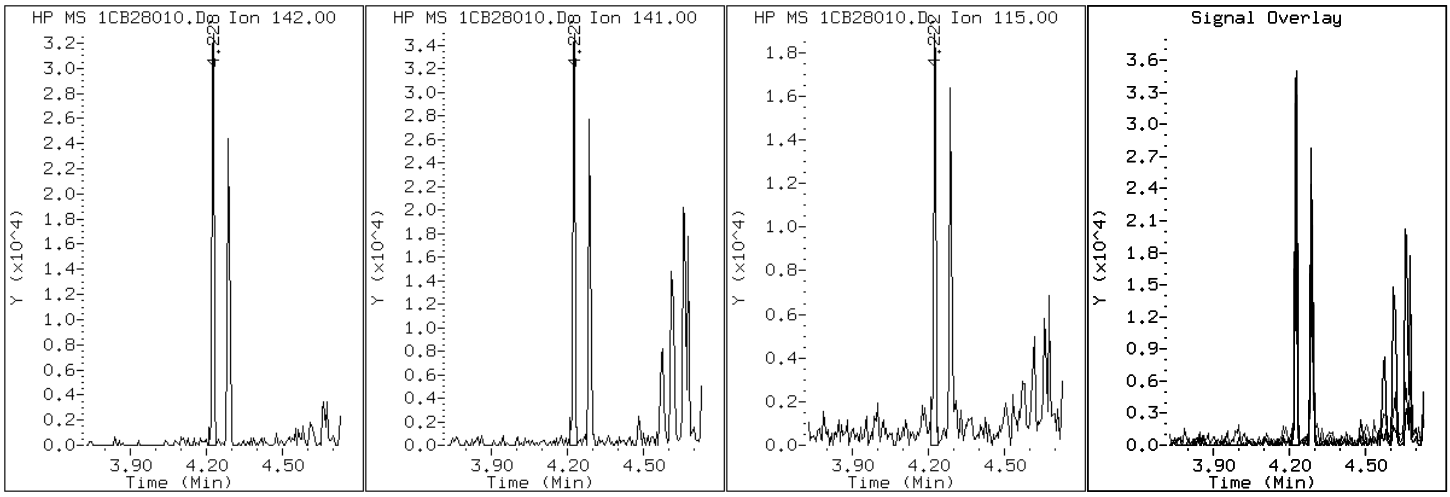
Data File: 1CB28010.D

Date: 28-FEB-2013 18:02

Client ID: CV0038B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-60-a Operator: SCC

3 2-Methylnaphthalene



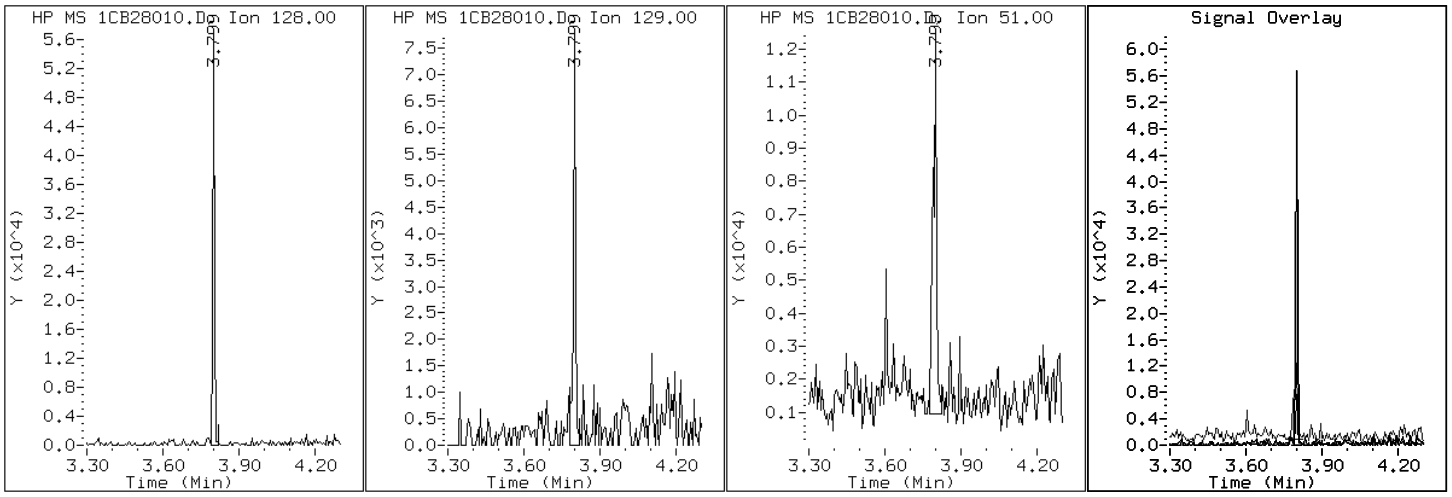
Data File: 1CB28010.D

Date: 28-FEB-2013 18:02

Client ID: CV0038B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-60-a Operator: SCC

2 Naphthalene



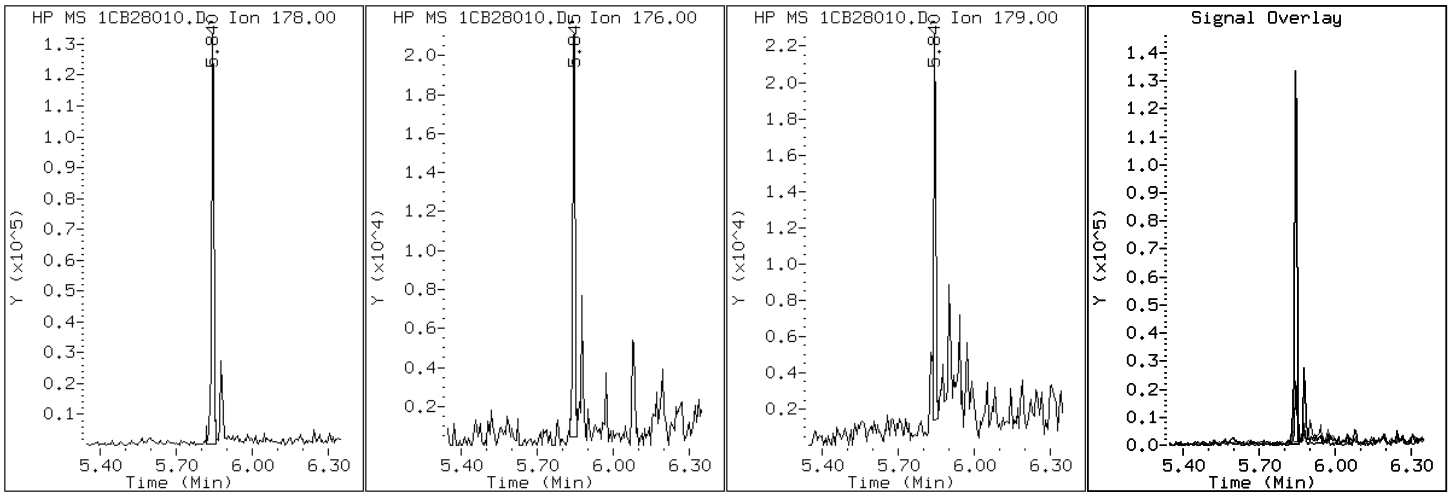
Data File: 1CB28010.D

Date: 28-FEB-2013 18:02

Client ID: CV0038B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-60-a Operator: SCC

11 Phenanthrene



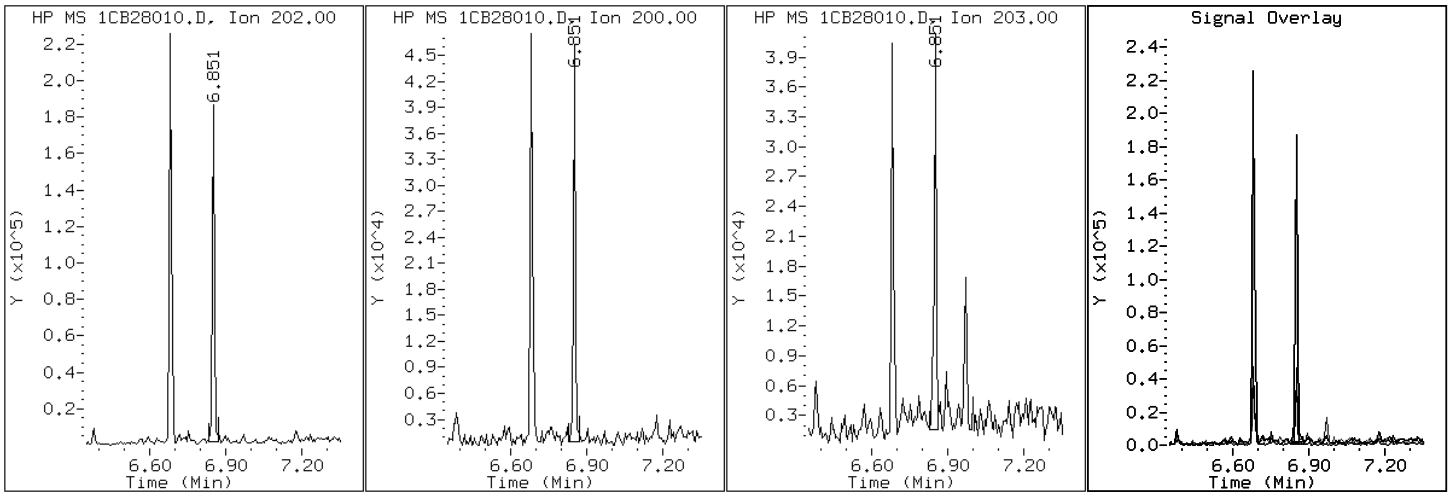
Data File: 1CB28010.D

Date: 28-FEB-2013 18:02

Client ID: CV0038B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87655-a-60-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB28010.D
Inj. Date and Time: 28-FEB-2013 18:02
Instrument ID: BSMC5973.i
Client ID: CV0038B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/04/2013

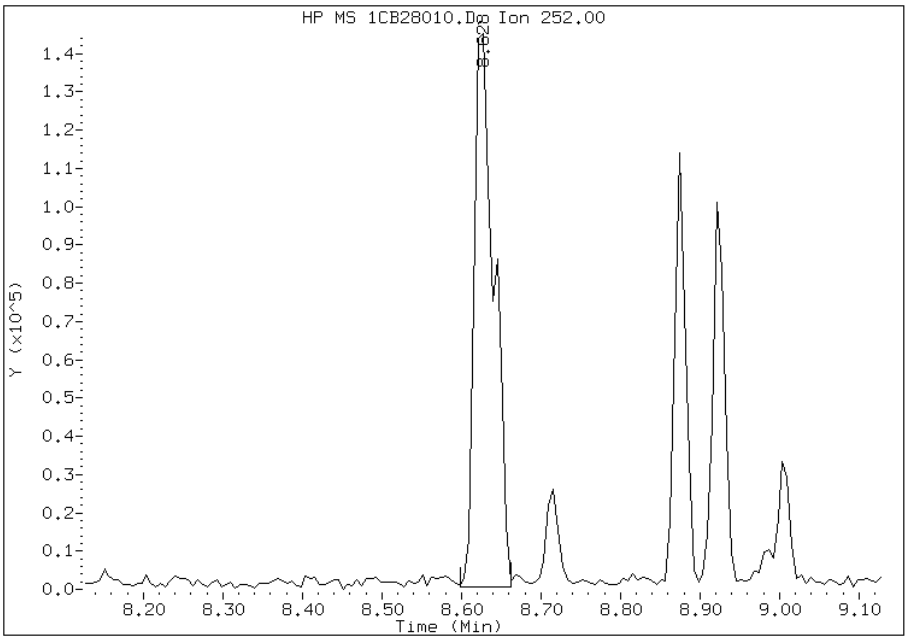
Processing Integration Results

RT: 8.63

Response: 250299

Amount: 4

Conc: 1213



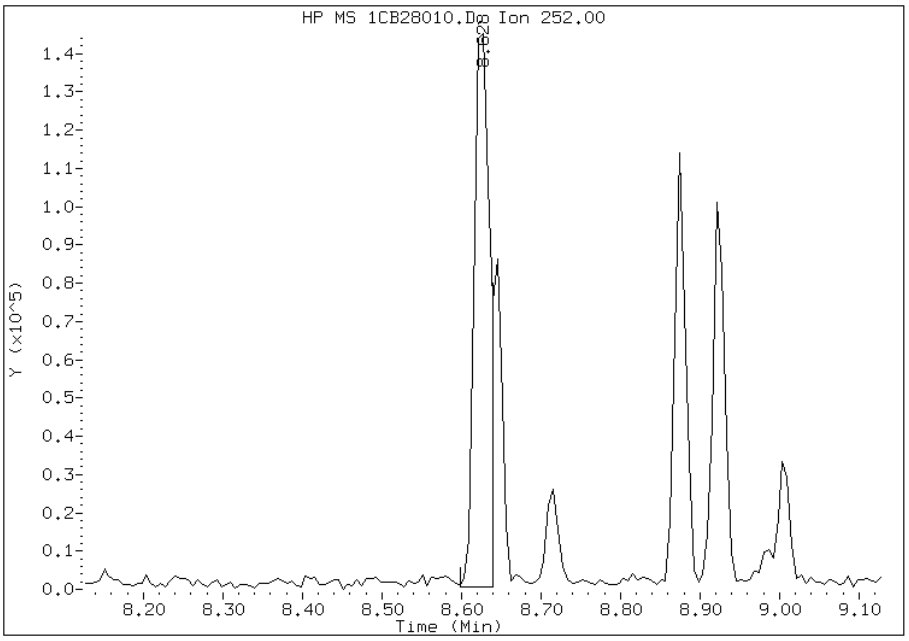
Manual Integration Results

RT: 8.63

Response: 196764

Amount: 3

Conc: 954



Manually Integrated By: cantins
Modification Date: 04-Mar-2013 11:00
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB28010.D
Inj. Date and Time: 28-FEB-2013 18:02
Instrument ID: BSMC5973.i
Client ID: CV0038B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/04/2013

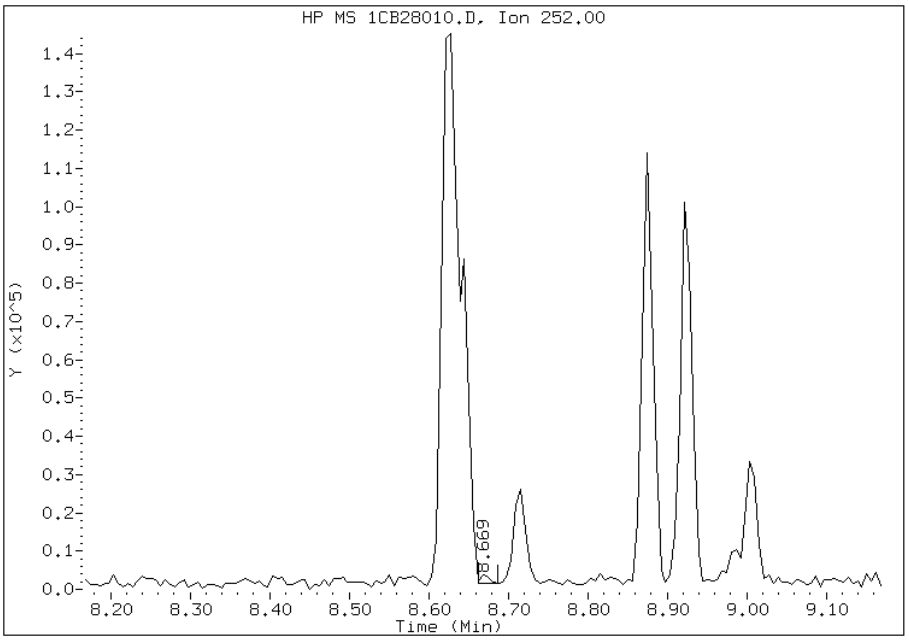
Processing Integration Results

RT: 8.67

Response: 1743

Amount: 0

Conc: 8



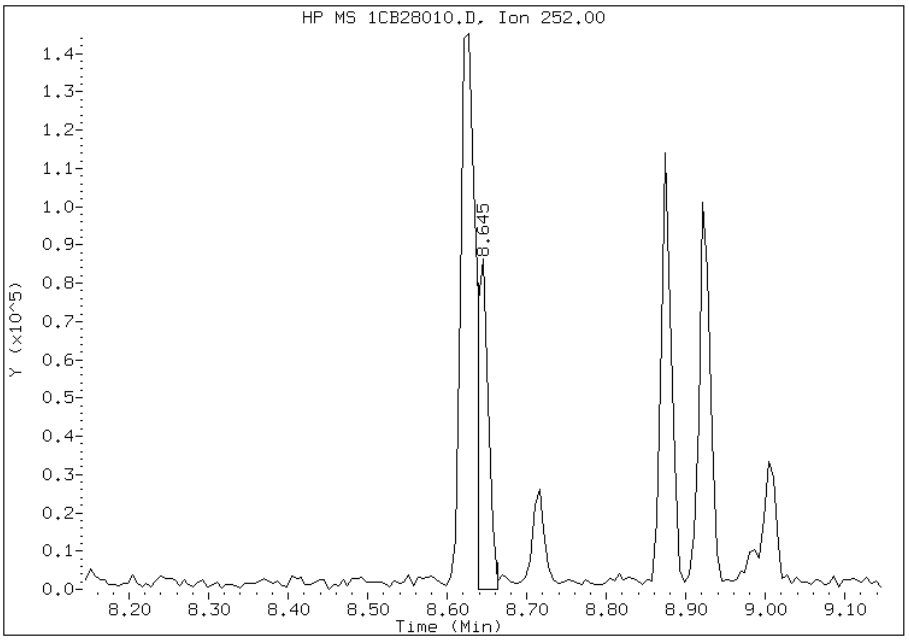
Manual Integration Results

RT: 8.65

Response: 81207

Amount: 1

Conc: 384



Manually Integrated By: cantins
Modification Date: 04-Mar-2013 11:00
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB28010.D
Inj. Date and Time: 28-FEB-2013 18:02
Instrument ID: BSMC5973.i
Client ID: CV0038B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/04/2013

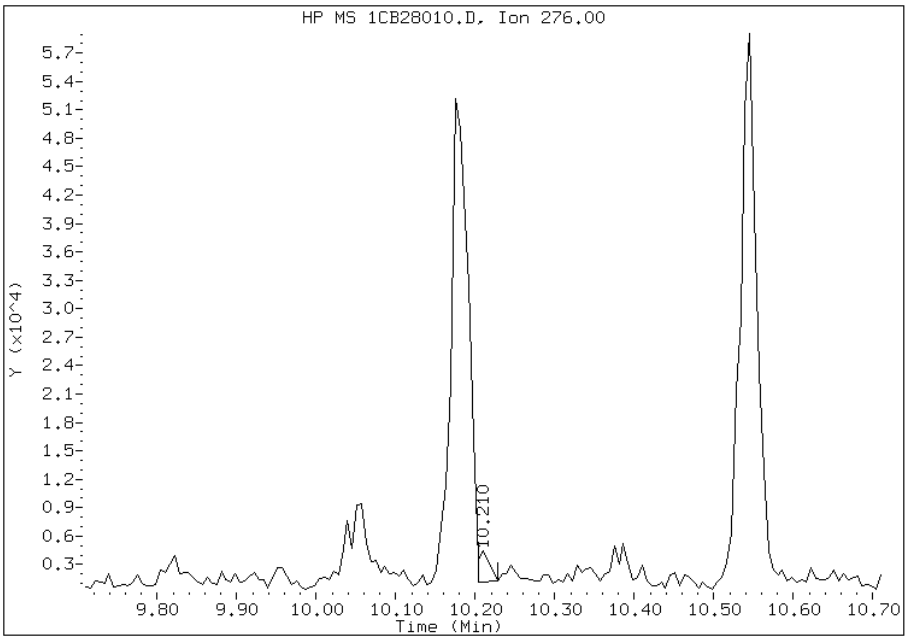
Processing Integration Results

RT: 10.21

Response: 3079

Amount: 0

Conc: 16



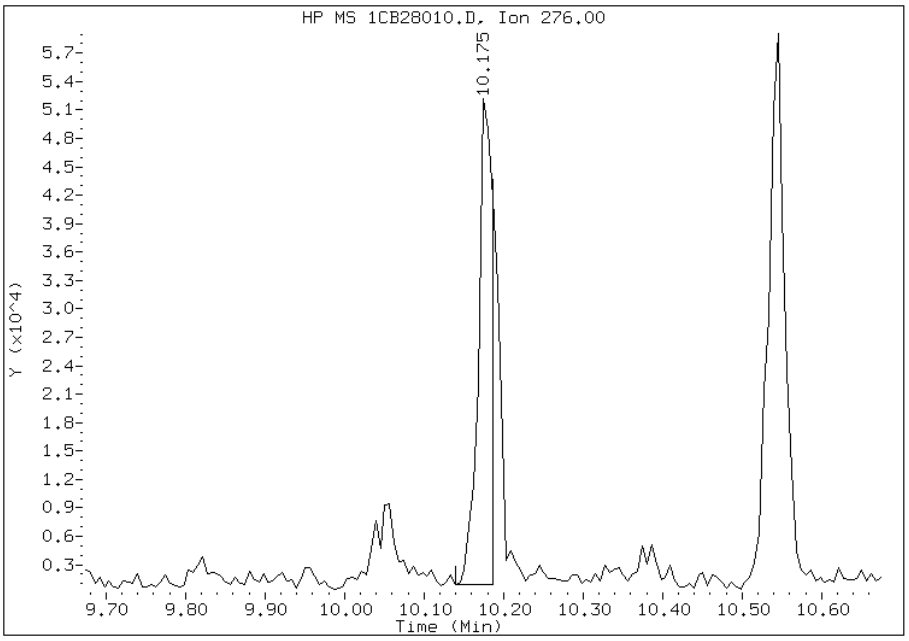
Manual Integration Results

RT: 10.17

Response: 63410

Amount: 1

Conc: 336



Manually Integrated By: cantins
Modification Date: 04-Mar-2013 11:01
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-87655-3 Analy Batch No.: 134776

SDG No.: 68087655-3

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

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134776/3	1CB22003.D
Level 2	IC 660-134776/4	1CB22004.D
Level 3	IC 660-134776/5	1CB22005.D
Level 4	IC 660-134776/6	1CB22006.D
Level 5	ICIS 660-134776/7	1CB22007.D
Level 6	IC 660-134776/8	1CB22008.D
Level 7	IC 660-134776/9	1CB22009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^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	0.9712 1.0467	1.0104 1.0669	1.0471	1.0871	1.0600	Ave		1.0414			0.0000	3.7		15.0			
2-Methylnaphthalene	0.7372 0.6936	0.6277 0.6981	0.6498	0.7330	0.7230	Ave		0.6946			0.0000	6.0		15.0			
1-Methylnaphthalene	0.5602 0.6374	0.5666 0.6603	0.6541	0.6977	0.6523	Ave		0.6326			0.0000	8.0		15.0			
Acenaphthylene	1.6507 1.6289	1.4259 1.6887	1.5782	1.6615	1.6547	Ave		1.6127			0.0000	5.5		15.0			
Acenaphthene	1.1992 0.9520	0.9269 0.9711	1.0052	0.9958	0.9664	Ave		1.0024			0.0000	9.0		15.0			
Fluorene	1.2003 1.2968	1.2155 1.3216	1.2084	1.3213	1.3097	Ave		1.2677			0.0000	4.5		15.0			
Phenanthrene	1.3236 1.1268	1.1829 1.1367	1.1369	1.0982	1.0913	Ave		1.1566			0.0000	6.9		15.0			
Anthracene	1.1830 1.1477	1.0495 1.1690	1.1368	1.1486	1.0836	Ave		1.1312			0.0000	4.2		15.0			
Carbazole	1.1097 0.9866	0.9191 1.0122	0.9992	1.0253	0.9866	Ave		1.0055			0.0000	5.7		15.0			
Fluoranthene	1.3263 1.3062	1.1270 1.2838	1.2811	1.2806	1.2615	Ave		1.2666			0.0000	5.1		15.0			
Pyrene	1.0694 1.0644	1.0908 1.1171	1.0556	1.0637	1.0636	Ave		1.0749			0.0000	2.0		15.0			
Benzo[a]anthracene	1.5187 1.0791	1.1715 1.0797	1.0862	1.0840	1.0620	Ave		1.1545			0.0000	14.3		15.0			
Chrysene	1.3833 1.1146	1.1955 1.1060	1.0804	1.1163	1.0913	Ave		1.1553			0.0000	9.3		15.0			
Benzo[b]fluoranthene	1.0729 1.0767	0.9591 1.0902	0.9699	1.0114	1.1373	Ave		1.0453			0.0000	6.4		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-87655-3 Analy Batch No.: 134776

SDG No.: 68087655-3

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

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.0803 1.0851	0.9472 1.1214	1.1337	1.1178	1.0210	Ave		1.0724			0.0000	6.2		15.0			
Benzo[a]pyrene	0.9920 1.0612	0.9445 1.0775	0.9754	1.0337	1.0234	Ave		1.0154			0.0000	4.7		15.0			
Indeno[1,2,3-cd]pyrene	0.9988 0.9513	0.8331 1.0162	0.9231	0.9673	0.9964	Ave		0.9552			0.0000	6.5		15.0			
Dibenz(a,h)anthracene	0.9790 0.9541	0.8572 0.9549	0.9225	0.9559	0.9165	Ave		0.9343			0.0000	4.3		15.0			
Benzo[g,h,i]perylene	1.0736 0.9972	0.9178 1.0017	1.0049	1.0311	0.9680	Ave		0.9992			0.0000	4.9		15.0			
o-Terphenyl	0.5990 0.6241	0.5420 0.6195	0.6120	0.6306	0.6003	Ave		0.6039			0.0000	4.9		15.0			

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

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-87655-3 Analy Batch No.: 134776

SDG No.: 68087655-3

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

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134776/3	1CB22003.D
Level 2	IC 660-134776/4	1CB22004.D
Level 3	IC 660-134776/5	1CB22005.D
Level 4	IC 660-134776/6	1CB22006.D
Level 5	ICIS 660-134776/7	1CB22007.D
Level 6	IC 660-134776/8	1CB22008.D
Level 7	IC 660-134776/9	1CB22009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	5702 977462	31413 1788680	148399	315626	643945	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	4328 647691	19516 1170415	92089	212804	439231	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	3289 595177	17615 1106965	92698	202550	396283	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	7443 1208002	33214 2158422	172573	371048	771781	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	5407 706037	21590 1241216	109910	222376	450754	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	5412 961751	28314 1689190	132137	295086	610839	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	11408 1575924	51473 2774518	234717	474400	1014750	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	10196 1605221	45666 2853457	234701	496179	1007571	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	9564 1379814	39992 2470847	206292	442919	917432	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	11431 1826908	49039 3133704	264484	553174	1173070	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	12023 1978030	58472 3458322	286919	587163	1289224	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	17074 2005529	62799 3342573	295256	598352	1287277	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	15552 2071419	64086 3423784	293675	616185	1322748	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	13018 2159068	56338 3419972	280988	609549	1514965	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	13108 2175966	55640 3517880	328460	673624	1360131	0.200 30.0	1.00 50.0	5.00	10.0	20.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-87655-3 Analy Batch No.: 134776

SDG No.: 68087655-3

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

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 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	12036 2128065	55481 3380087	282594	622966	1363217	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	12119 1907725	48940 3187834	267436	582935	1327322	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	11879 1913283	50354 2995648	267252	576071	1220845	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	13026 1999689	53913 3142464	291148	621425	1289503	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	5163 872937	23584 1512079	126358	272397	558161	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:
Ave = Average ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22003.D
Lab Smp Id: IC-1512358
Inj Date : 22-FEB-2013 11:57
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512358
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1174200	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	901777	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1723779	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	5163	0.20000	0.1983
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2248468	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2426654	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	5702	0.20000	0.1865(Q)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	4328	0.20000	0.2122
4 1-Methylnaphthalene	142	4.310	4.310	(1.133)	3289	0.20000	0.1771
5 Acenaphthylene	152	4.804	4.804	(0.982)	7443	0.20000	0.2047
7 Acenaphthene	154	4.915	4.915	(1.005)	5407	0.20000	0.2392
9 Fluorene	166	5.233	5.233	(1.070)	5412	0.20000	0.1893
11 Phenanthrene	178	5.862	5.862	(1.003)	11408	0.20000	0.2288
12 Anthracene	178	5.898	5.898	(1.009)	10196	0.20000	0.2091
13 Carbazole	167	6.004	6.004	(1.027)	9564	0.20000	0.2207
15 Fluoranthene	202	6.704	6.704	(1.147)	11431	0.20000	0.2094
16 Pyrene	202	6.874	6.874	(0.882)	12023	0.20000	0.1989
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	17074	0.20000	0.2631
19 Chrysene	228	7.815	7.815	(1.002)	15552	0.20000	0.2394
20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	13018	0.20000	0.2052
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	13108	0.20000	0.2014
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	12036	0.20000	0.1953
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	12119	0.20000	0.2001(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.250	(1.137)	11879	0.20000	0.2095
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	13026	0.20000	0.2148

QC Flag Legend

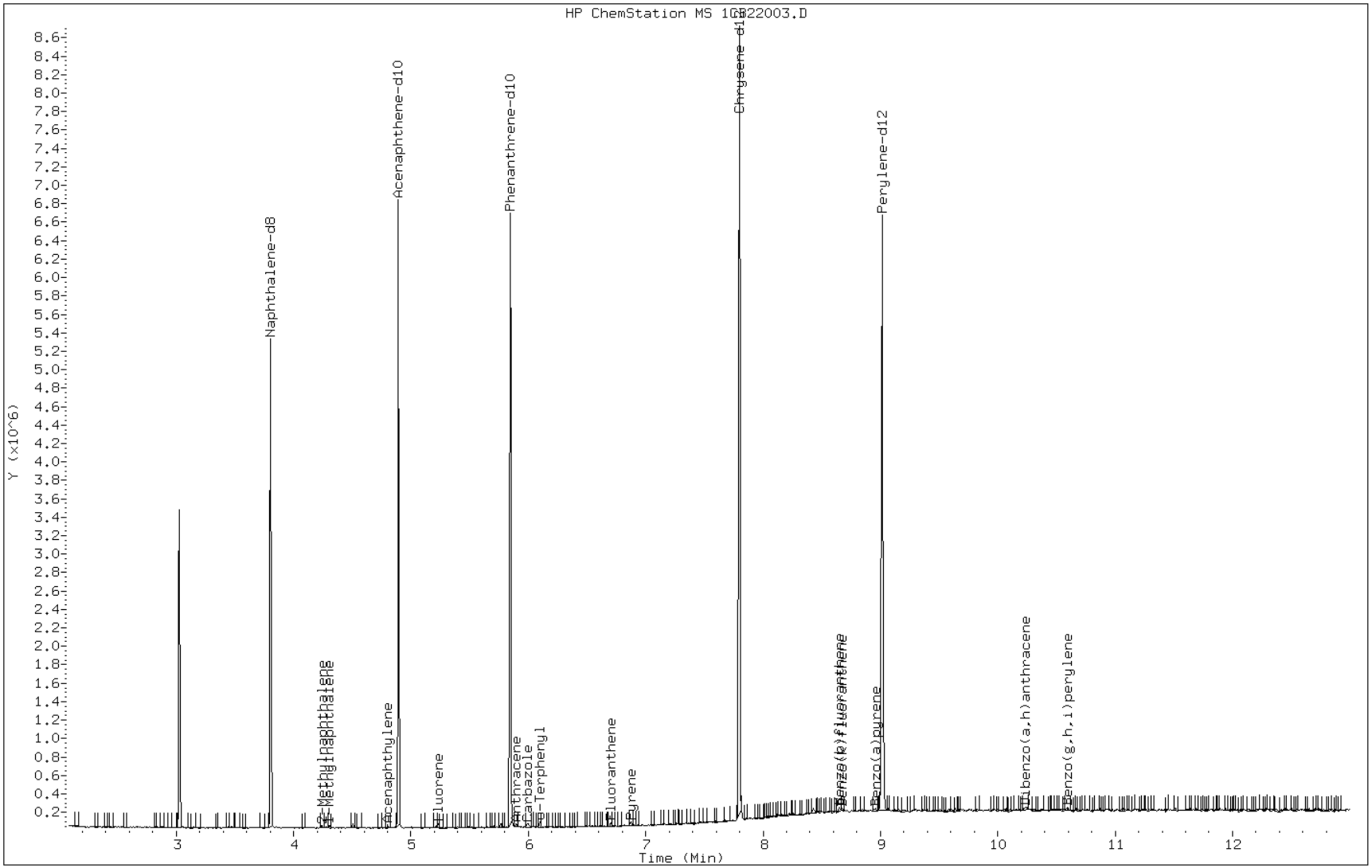
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB22003.D

Date: 22-FEB-2013 11:57

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1512358 Operator: SCC



Manual Integration Report

Data File: 1CB22003.D
Inj. Date and Time: 22-FEB-2013 11:57
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

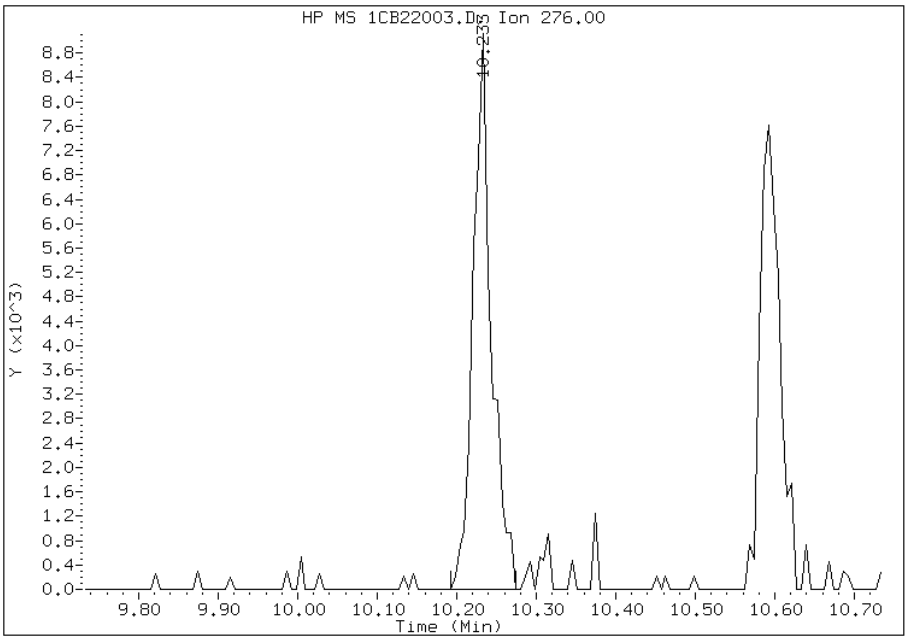
Processing Integration Results

RT: 10.23

Response: 14380

Amount: 0

Conc: 0



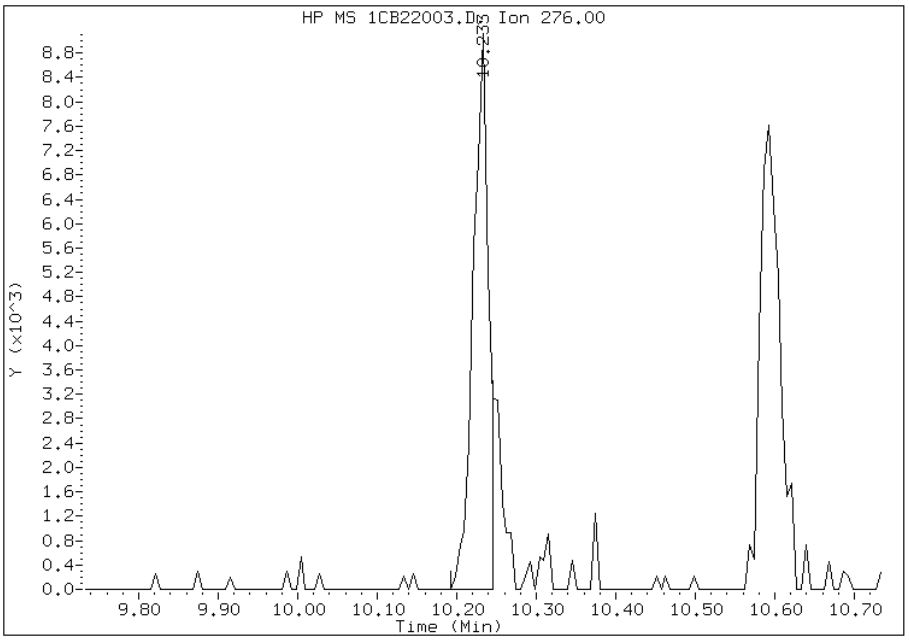
Manual Integration Results

RT: 10.23

Response: 12119

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:13
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22004.D
Lab Smp Id: IC-1512359
Inj Date : 22-FEB-2013 12:16
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512359
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 11:57 Cal File: 1CB22003.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1243608	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	931732	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1740509	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	23584	1.00000	0.8974
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2144273	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2349732	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	31413	1.00000	0.9702(Q)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	19516	1.00000	0.9036
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	17615	1.00000	0.8955
5 Acenaphthylene	152	4.804	4.804	(0.982)	33214	1.00000	0.8841
7 Acenaphthene	154	4.910	4.910	(1.004)	21590	1.00000	0.9246
9 Fluorene	166	5.233	5.233	(1.070)	28314	1.00000	0.9588
11 Phenanthrene	178	5.862	5.862	(1.003)	51473	1.00000	1.0227
12 Anthracene	178	5.898	5.898	(1.009)	45666	1.00000	0.9277
13 Carbazole	167	6.004	6.004	(1.027)	39992	1.00000	0.9140
15 Fluoranthene	202	6.704	6.704	(1.147)	49039	1.00000	0.8897
16 Pyrene	202	6.874	6.874	(0.882)	58472	1.00000	1.0147
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	62799	1.00000	1.0147
19 Chrysene	228	7.815	7.815	(1.002)	64086	1.00000	1.0347
20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	56338	1.00000	0.9174
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	55640	1.00000	0.8832
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	55481	1.00000	0.9301
24 Indeno(1,2,3-cd)pyrene	276	10.221	10.221	(1.134)	48940	1.00000	0.8346(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	50354	1.00000	0.9174
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	53913	1.00000	0.9185

QC Flag Legend

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

Data File: 1CB22004.D

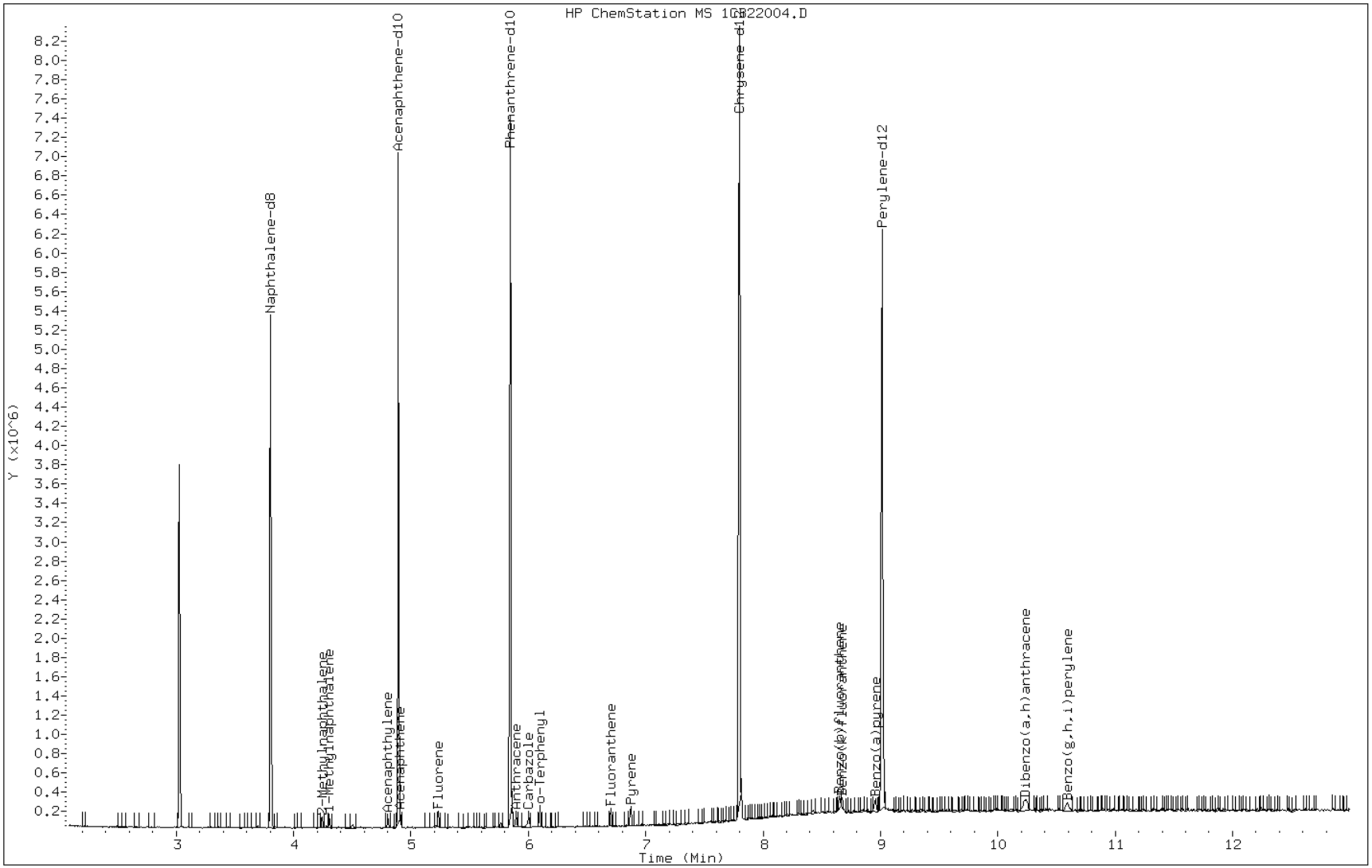
Date: 22-FEB-2013 12:16

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512359

Operator: SCC



Manual Integration Report

Data File: 1CB22004.D
Inj. Date and Time: 22-FEB-2013 12:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

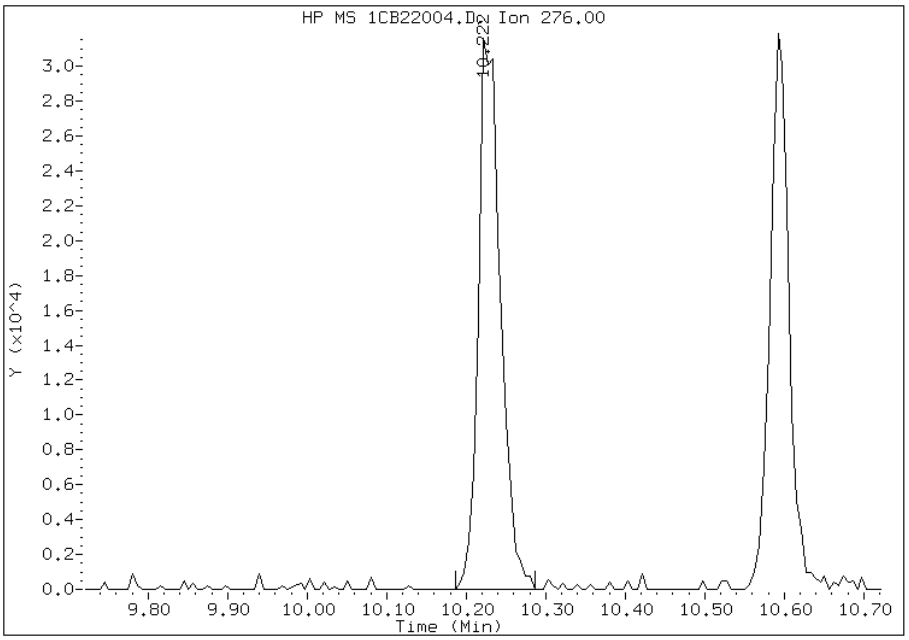
Processing Integration Results

RT: 10.22

Response: 61246

Amount: 1

Conc: 1



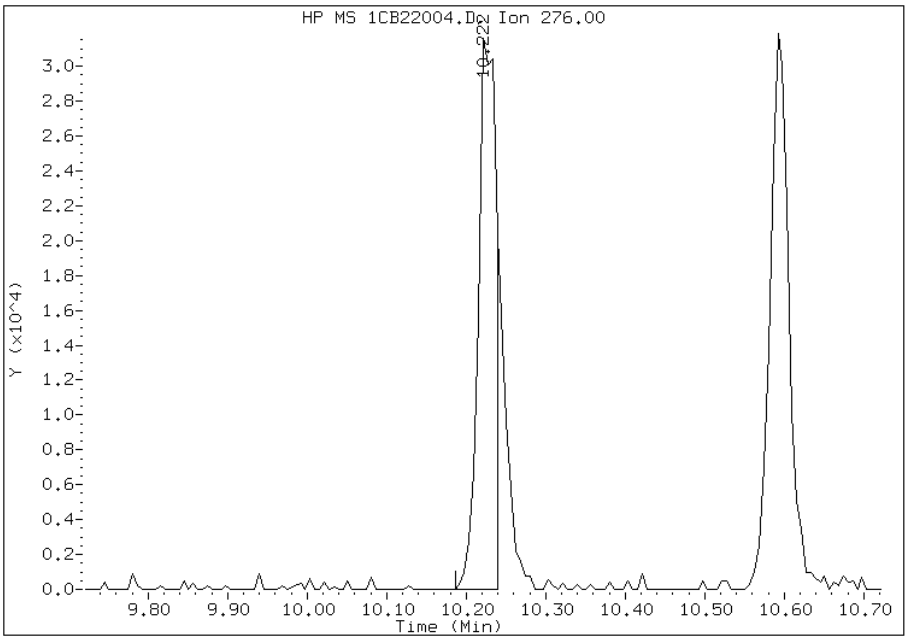
Manual Integration Results

RT: 10.22

Response: 48940

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:14
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22005.D
Lab Smp Id: IC-1512360
Inj Date : 22-FEB-2013 12:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512360
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:16 Cal File: 1CB22004.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1133793	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	874757	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1651631	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	126358	5.00000	5.0671
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2174554	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2317716	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	148399	5.00000	5.0275
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	92089	5.00000	4.6771
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	92698	5.00000	5.1694
5 Acenaphthylene	152	4.804	4.804	(0.982)	172573	5.00000	4.8932
7 Acenaphthene	154	4.910	4.910	(1.004)	109910	5.00000	5.0139
9 Fluorene	166	5.233	5.233	(1.070)	132137	5.00000	4.7663
11 Phenanthrene	178	5.863	5.863	(1.003)	234717	5.00000	4.9147
12 Anthracene	178	5.898	5.898	(1.009)	234701	5.00000	5.0249
13 Carbazole	167	6.004	6.004	(1.027)	206292	5.00000	4.9685
15 Fluoranthene	202	6.704	6.704	(1.147)	264484	5.00000	5.0569
16 Pyrene	202	6.874	6.874	(0.882)	286919	5.00000	4.9098
17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	295256	5.00000	4.7043
19 Chrysene	228	7.815	7.815	(1.002)	293675	5.00000	4.6756
20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	280988	5.00000	4.6390
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	328460	5.00000	5.2861
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	282594	5.00000	4.8032
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.227	(1.134)	267436	5.00000	4.6238(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	267252	5.00000	4.9366
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	291148	5.00000	5.0287

QC Flag Legend

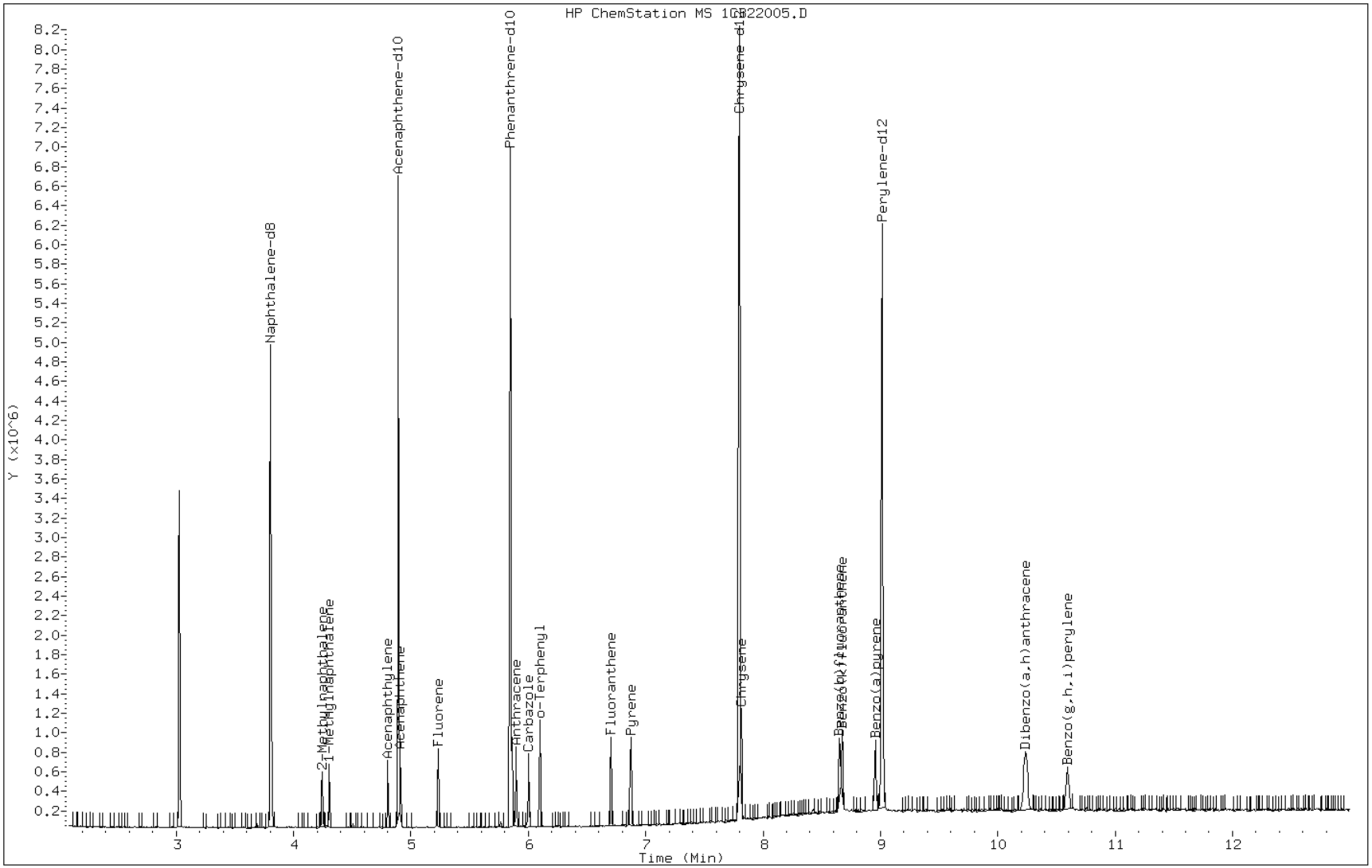
M - Compound response manually integrated.

Data File: 1CB22005.D

Date: 22-FEB-2013 12:34

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1512360 Operator: SCC



Manual Integration Report

Data File: 1CB22005.D
Inj. Date and Time: 22-FEB-2013 12:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

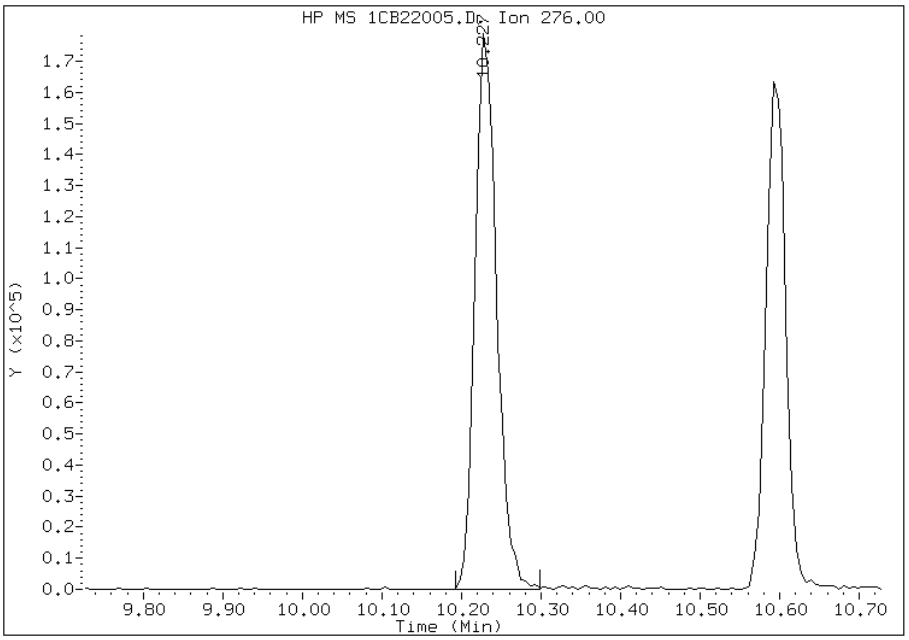
Processing Integration Results

RT: 10.23

Response: 336913

Amount: 6

Conc: 6



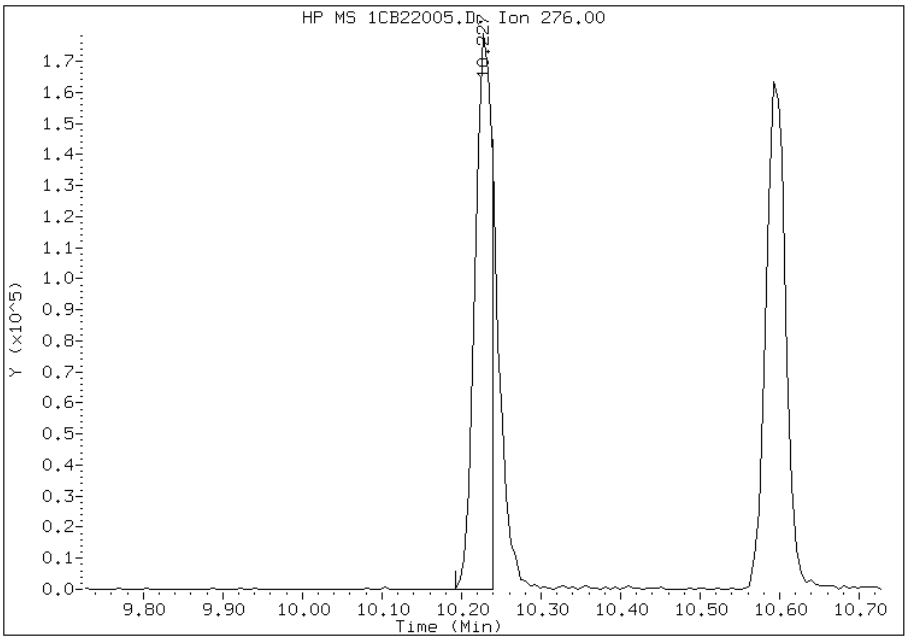
Manual Integration Results

RT: 10.23

Response: 267436

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:14
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22006.D
Lab Smp Id: IC-1512361
Inj Date : 22-FEB-2013 12:53
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512361
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:34 Cal File: 1CB22005.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1161301	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	893287	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1727894	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	272397	10.0000	10.4413
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2207928	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2410622	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	315626	10.0000	10.4397
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	212804	10.0000	10.5522
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	202550	10.0000	11.0278
5 Acenaphthylene	152	4.804	4.804	(0.982)	371048	10.0000	10.3027
7 Acenaphthene	154	4.910	4.910	(1.004)	222376	10.0000	9.9341
9 Fluorene	166	5.233	5.233	(1.070)	295086	10.0000	10.4233
11 Phenanthrene	178	5.862	5.862	(1.003)	474400	10.0000	9.4950
12 Anthracene	178	5.898	5.898	(1.009)	496179	10.0000	10.1543
13 Carbazole	167	6.004	6.004	(1.027)	442919	10.0000	10.1969
15 Fluoranthene	202	6.704	6.704	(1.147)	553174	10.0000	10.1099
16 Pyrene	202	6.874	6.874	(0.882)	587163	10.0000	9.8957
17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	598352	10.0000	9.3895
19 Chrysene	228	7.815	7.815	(1.002)	616185	10.0000	9.6621
20 Benzo(b)fluoranthene	252	8.650	8.650	(0.960)	609549	10.0000	9.6756
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	673624	10.0000	10.4233
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	622966	10.0000	10.1804
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.227	(1.134)	582935	10.0000	9.6902(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	576071	10.0000	10.2310
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	621425	10.0000	10.3197

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22006.D

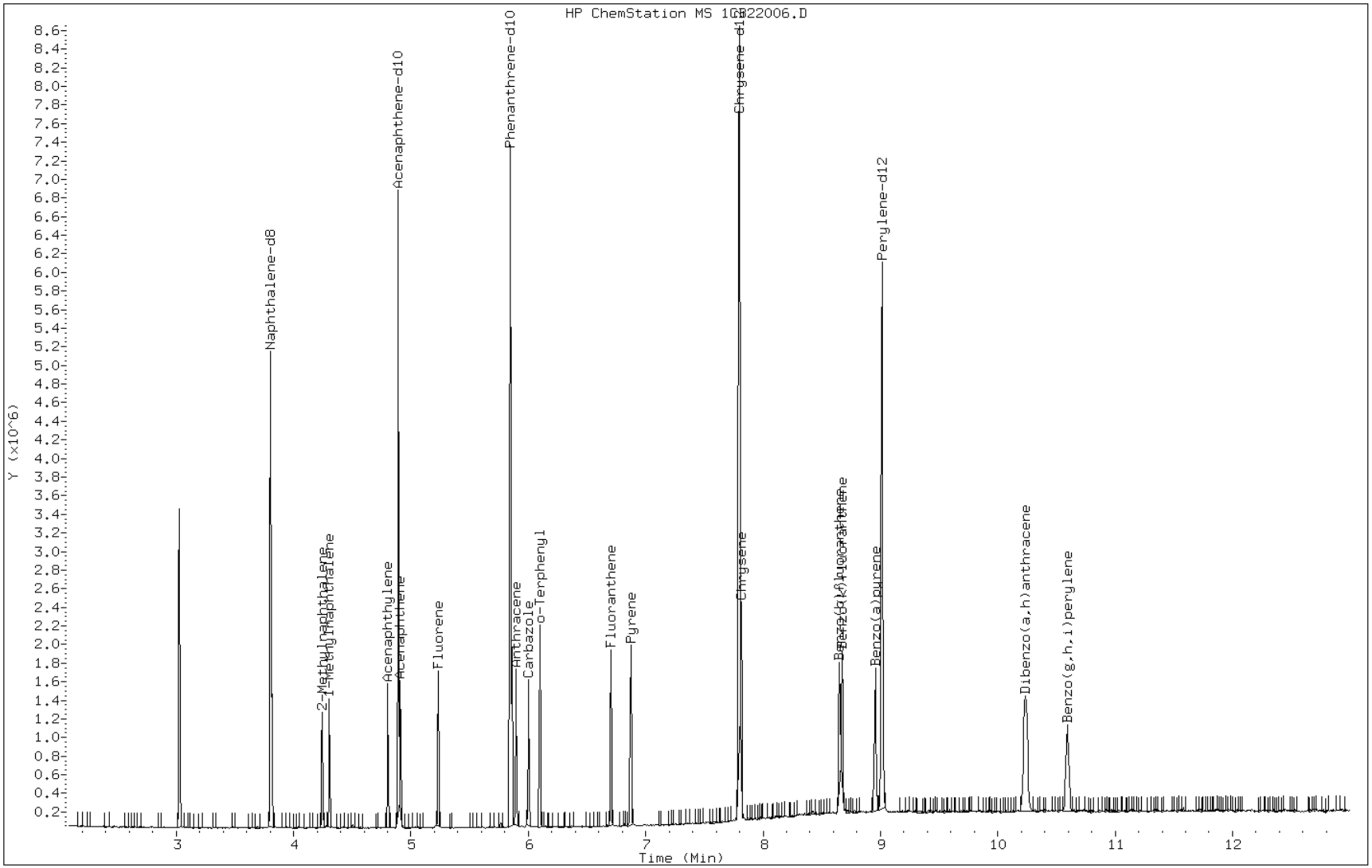
Date: 22-FEB-2013 12:53

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512361

Operator: SCC



Manual Integration Report

Data File: 1CB22006.D
Inj. Date and Time: 22-FEB-2013 12:53
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

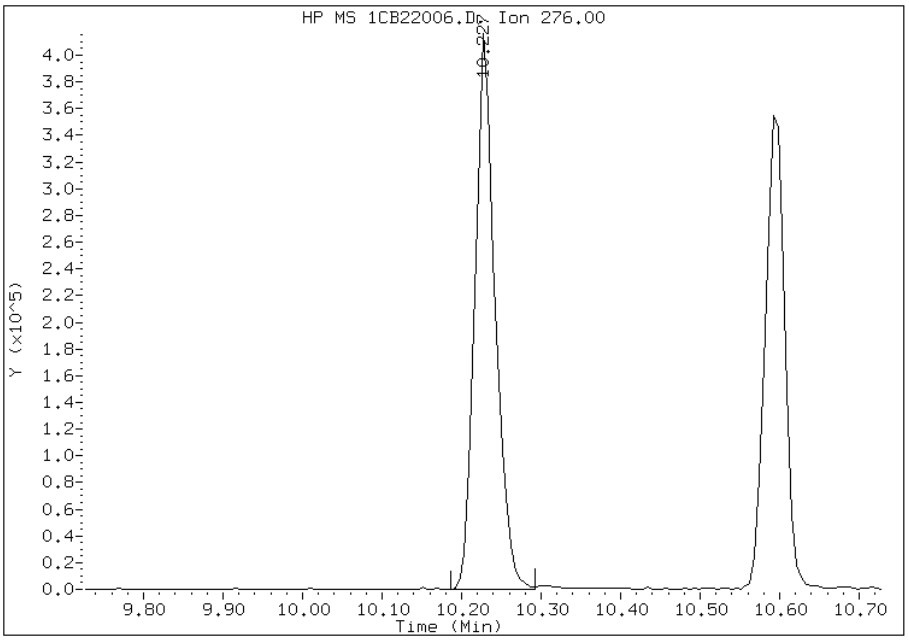
Processing Integration Results

RT: 10.23

Response: 727358

Amount: 13

Conc: 13



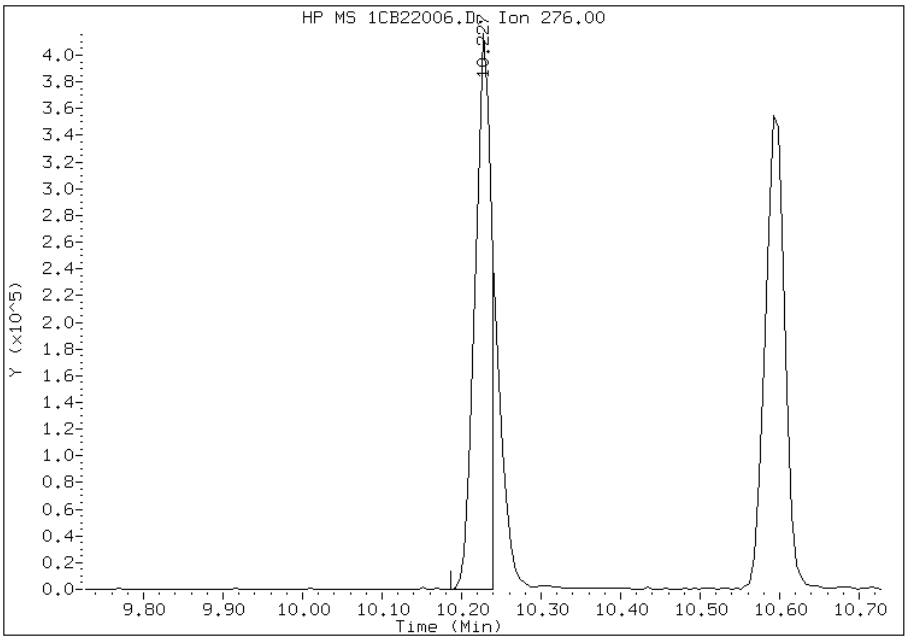
Manual Integration Results

RT: 10.23

Response: 582935

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:14
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22007.D
Lab Smp Id: ICIS-1512372
Inj Date : 22-FEB-2013 13:11
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:53 Cal File: 1CB22006.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1215005	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	932815	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1859738	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	558161	20.0000	19.8783
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2424157	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2664188	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	643945	20.0000	20.3579
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	439231	20.0000	20.8172
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	396283	20.0000	20.6220
5 Acenaphthylene	152	4.804	4.804	(0.982)	771781	20.0000	20.5216
7 Acenaphthene	154	4.910	4.910	(1.004)	450754	20.0000	19.2831
9 Fluorene	166	5.233	5.233	(1.070)	610839	20.0000	20.6625
11 Phenanthrene	178	5.863	5.863	(1.003)	1014750	20.0000	18.8701
12 Anthracene	178	5.898	5.898	(1.009)	1007571	20.0000	19.1582
13 Carbazole	167	6.004	6.004	(1.027)	917432	20.0000	19.6239
15 Fluoranthene	202	6.704	6.704	(1.147)	1173070	20.0000	19.9194
16 Pyrene	202	6.874	6.874	(0.882)	1289224	20.0000	19.7898
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	1287277	20.0000	18.3986
19 Chrysene	228	7.815	7.815	(1.002)	1322748	20.0000	18.8914
20 Benzo(b)fluoranthene	252	8.657	8.657	(0.960)	1514965	20.0000	21.7588
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	1360131	20.0000	19.0428
22 Benzo(a)pyrene	252	8.957	8.957	(0.993)	1363217	20.0000	20.1573
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	1327322	20.0000	19.9642(M)
25 Dibenzo(a,h)anthracene	278	10.251	10.251	(1.137)	1220845	20.0000	19.6186
26 Benzo(g,h,i)perylene	276	10.598	10.598	(1.175)	1289503	20.0000	19.3760

QC Flag Legend

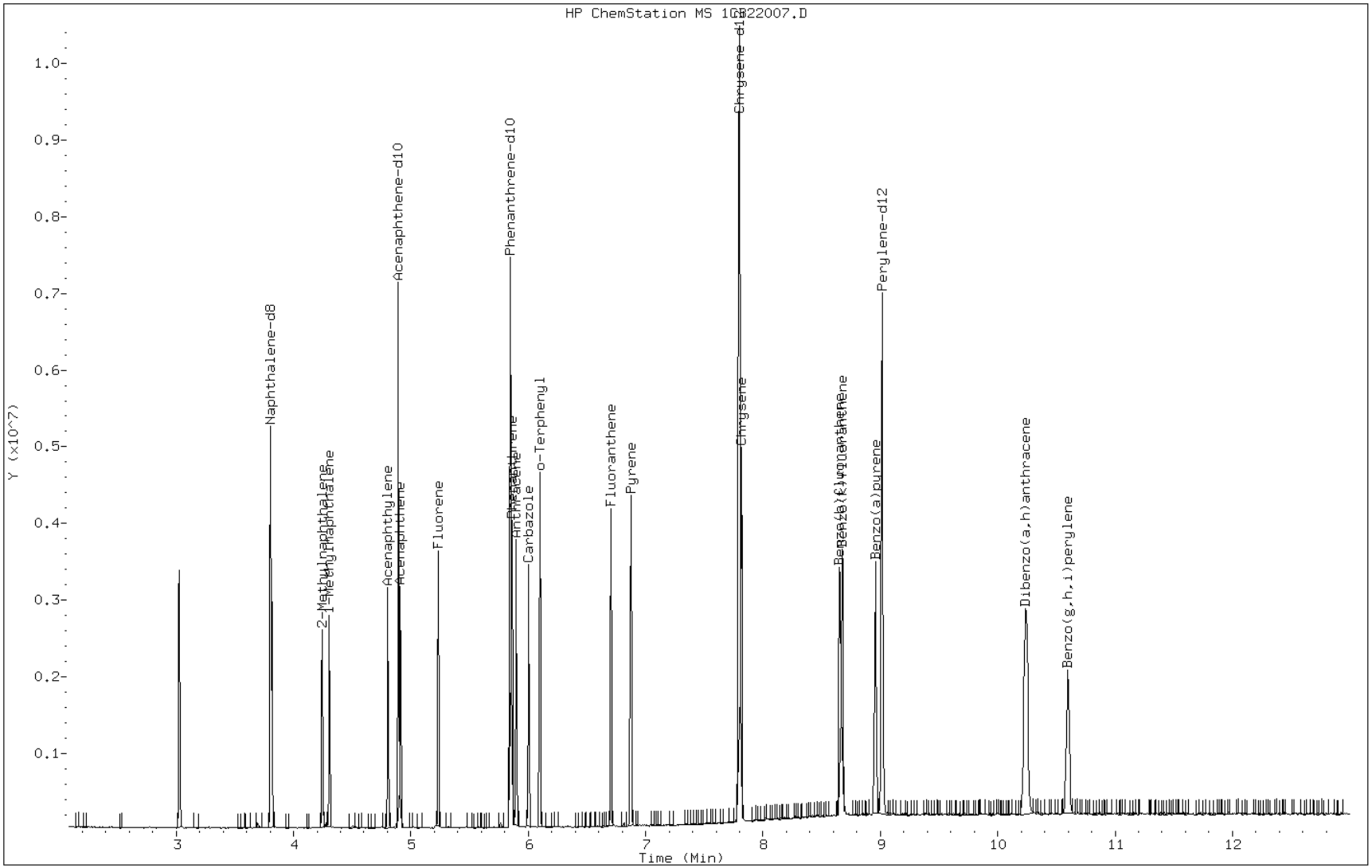
M - Compound response manually integrated.

Data File: 1CB22007.D

Date: 22-FEB-2013 13:11

Client ID: Instrument: BSMC5973.i

Sample Info: ICIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1CB22007.D
Inj. Date and Time: 22-FEB-2013 13:11
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

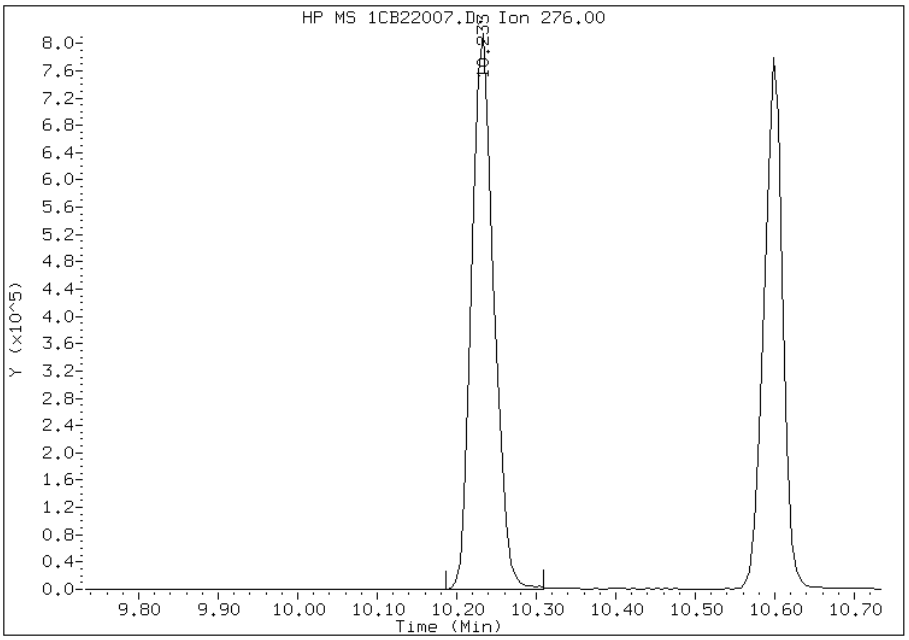
Processing Integration Results

RT: 10.23

Response: 1569498

Amount: 25

Conc: 25



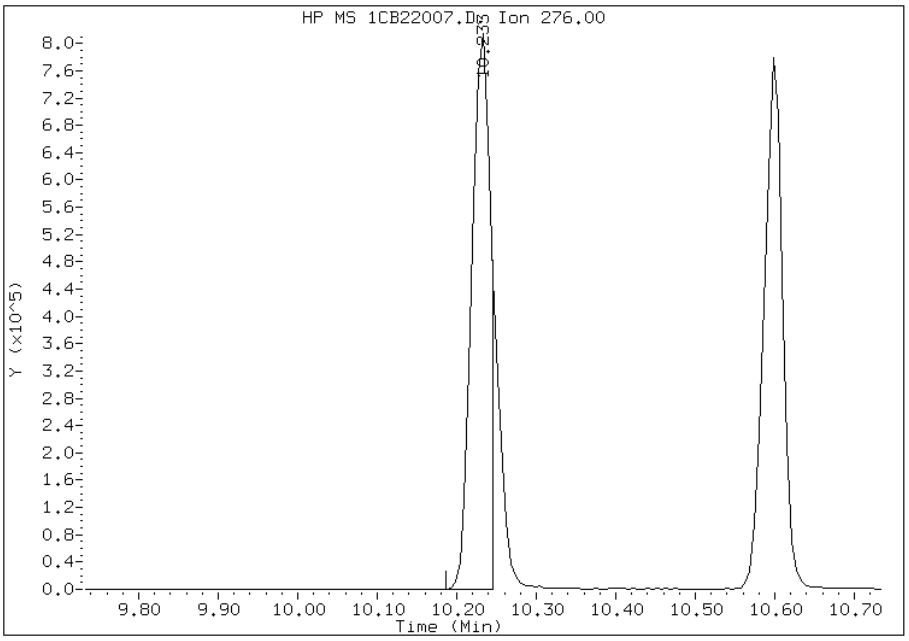
Manual Integration Results

RT: 10.23

Response: 1327322

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:11
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22008.D
Lab Smp Id: IC-1512373
Inj Date : 22-FEB-2013 13:29
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512373
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:11 Cal File: 1CB22007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1245095	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	988838	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1864829	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	872937	30.0000	31.0038
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2477918	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2673716	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	977462	30.0000	30.1550
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	647691	30.0000	29.9553
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	595177	30.0000	30.2237
5 Acenaphthylene	152	4.804	4.804	(0.982)	1208002	30.0000	30.3009
7 Acenaphthene	154	4.910	4.910	(1.004)	706037	30.0000	28.4928
9 Fluorene	166	5.233	5.233	(1.070)	961751	30.0000	30.6894
11 Phenanthrene	178	5.863	5.863	(1.003)	1575924	30.0000	29.2256
12 Anthracene	178	5.898	5.898	(1.009)	1605221	30.0000	30.4388
13 Carbazole	167	6.004	6.004	(1.027)	1379814	30.0000	29.4337
15 Fluoranthene	202	6.704	6.704	(1.147)	1826908	30.0000	30.9373
16 Pyrene	202	6.874	6.874	(0.882)	1978030	30.0000	29.7043
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	2005529	30.0000	28.0424
19 Chrysene	228	7.821	7.821	(1.003)	2071419	30.0000	28.9420
20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	2159068	30.0000	30.8993
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	2175966	30.0000	30.3566
22 Benzo(a)pyrene	252	8.962	8.962	(0.994)	2128065	30.0000	31.3547
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	1907725	30.0000	28.5918(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.250	(1.137)	1913283	30.0000	30.6363
26 Benzo(g,h,i)perylene	276	10.603	10.603	(1.176)	1999689	30.0000	29.9402

QC Flag Legend

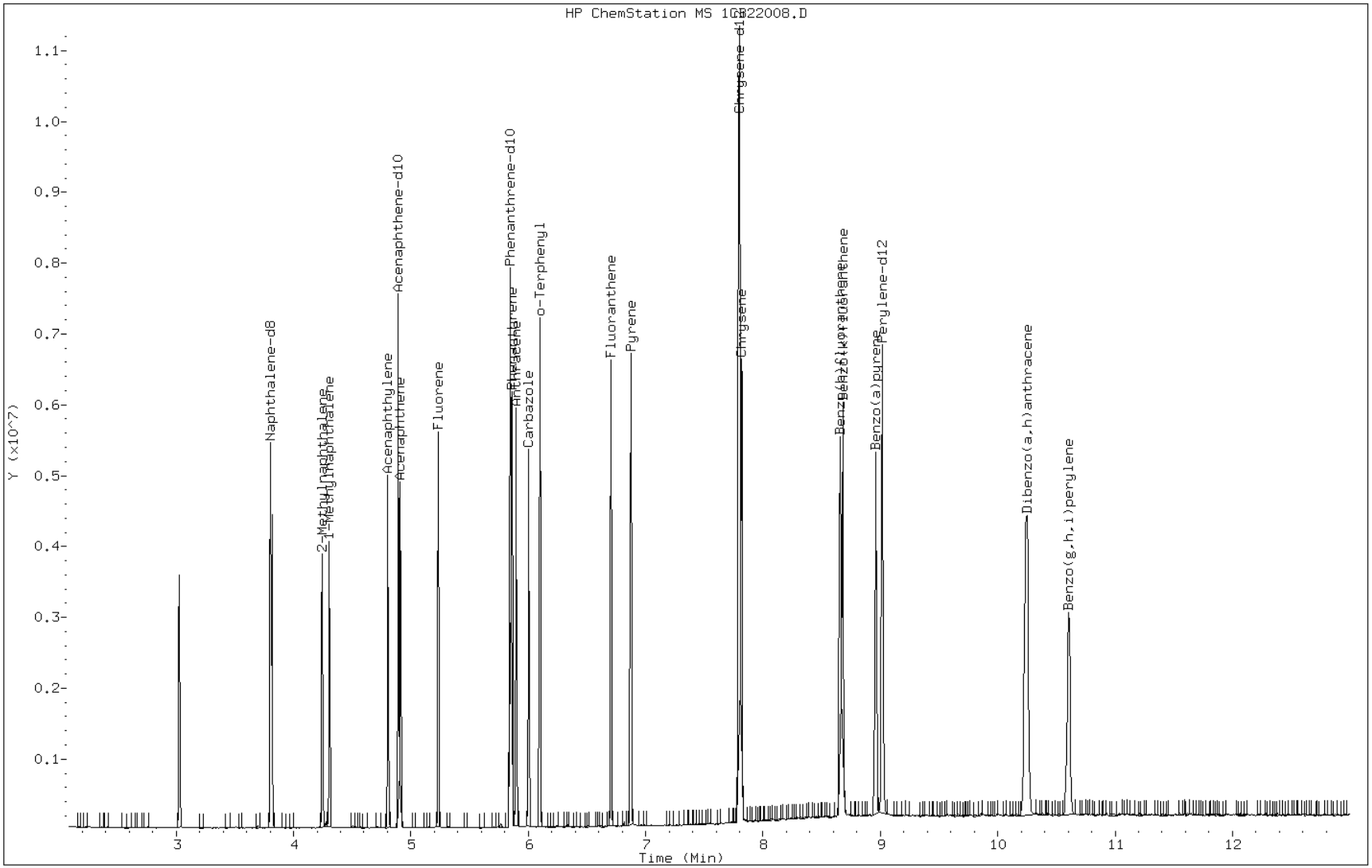
M - Compound response manually integrated.

Data File: 1CB22008.D

Date: 22-FEB-2013 13:29

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1512373 Operator: SCC



Manual Integration Report

Data File: 1CB22008.D
Inj. Date and Time: 22-FEB-2013 13:29
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

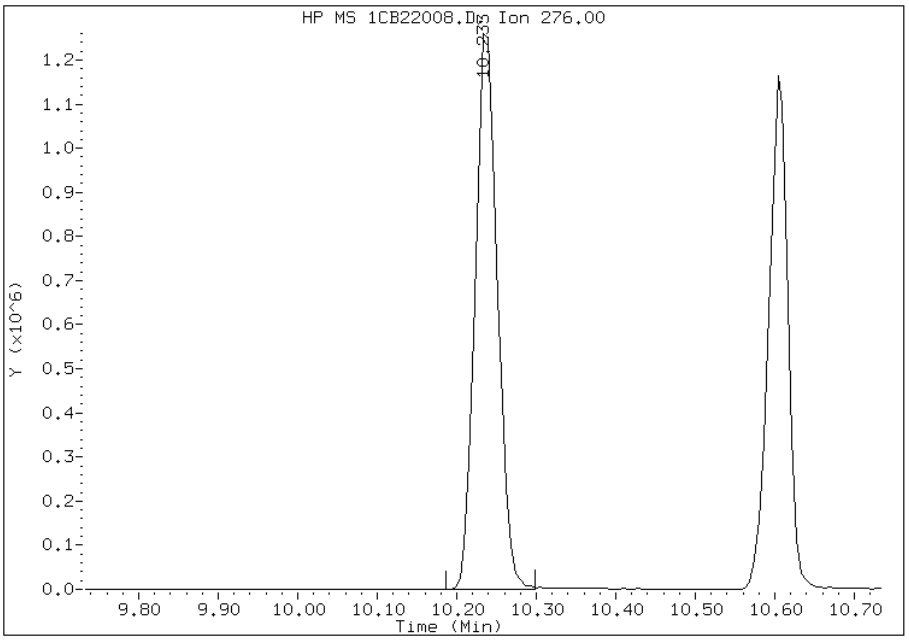
Processing Integration Results

RT: 10.23

Response: 2435528

Amount: 36

Conc: 36



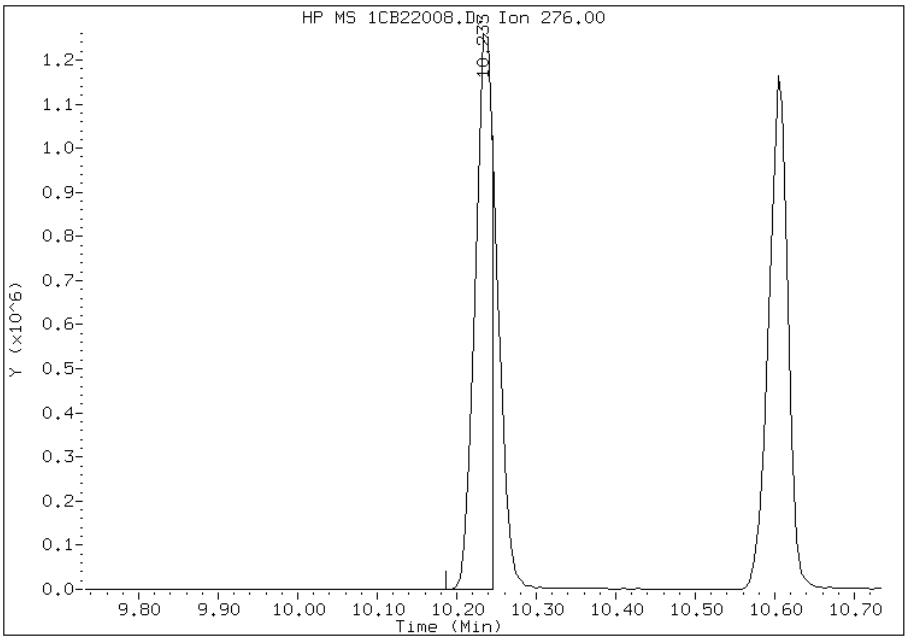
Manual Integration Results

RT: 10.23

Response: 1907725

Amount: 29

Conc: 29



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:15
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22009.D
Lab Smp Id: IC-1512374
Inj Date : 22-FEB-2013 13:48
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1512374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:29 Cal File: 1CB22008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1341221	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	1022497	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1952764	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	1512079	50.0000	51.2857(A)
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2476604	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2509650	40.0000	
2 Naphthalene	128	3.815	3.815	(1.003)	1788680	50.0000	51.2265(A)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	1170415	50.0000	50.2513(A)
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	1106965	50.0000	52.1840(A)
5 Acenaphthylene	152	4.804	4.804	(0.982)	2158422	50.0000	52.3585(A)
7 Acenaphthene	154	4.910	4.910	(1.004)	1241216	50.0000	48.4415
9 Fluorene	166	5.233	5.233	(1.070)	1689190	50.0000	52.1276(A)
11 Phenanthrene	178	5.862	5.862	(1.003)	2774518	50.0000	49.1366
12 Anthracene	178	5.898	5.898	(1.009)	2853457	50.0000	51.6717(A)
13 Carbazole	167	6.004	6.004	(1.027)	2470847	50.0000	50.3338(A)
15 Fluoranthene	202	6.704	6.704	(1.147)	3133704	50.0000	50.6773(A)
16 Pyrene	202	6.874	6.874	(0.882)	3458322	50.0000	51.9617(A)
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	3342573	50.0000	46.7626
19 Chrysene	228	7.821	7.821	(1.003)	3423784	50.0000	47.8628
20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	3419972	50.0000	52.1444(A)
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	3517880	50.0000	52.2859(A)
22 Benzo(a)pyrene	252	8.962	8.962	(0.994)	3380087	50.0000	53.0576(A)
24 Indeno(1,2,3-cd)pyrene	276	10.239	10.239	(1.136)	3187834	50.0000	50.9008(AM)
25 Dibenzo(a,h)anthracene	278	10.256	10.256	(1.138)	2995648	50.0000	51.1034(A)
26 Benzo(g,h,i)perylene	276	10.609	10.609	(1.177)	3142464	50.0000	50.1261(A)

QC Flag Legend

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

Data File: 1CB22009.D

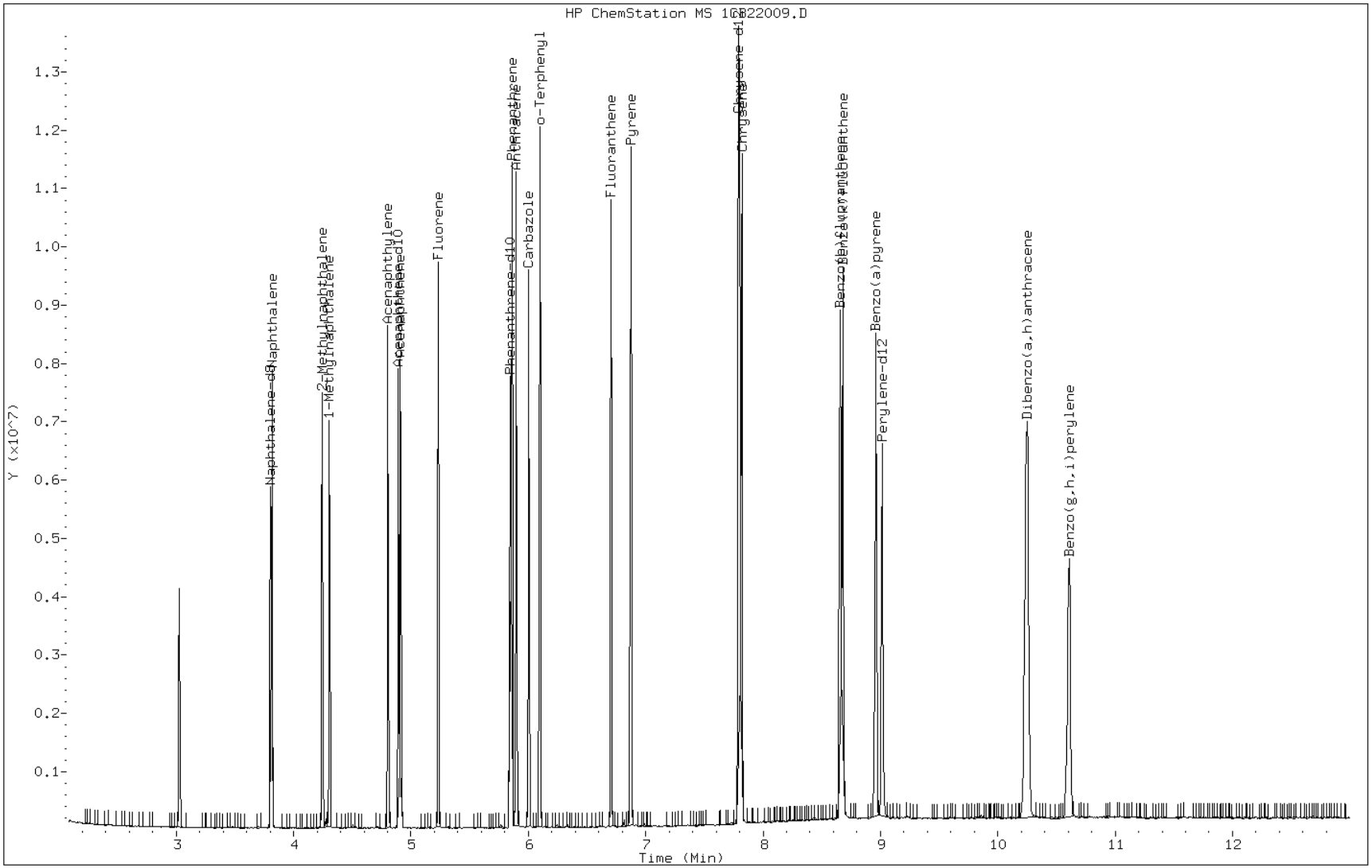
Date: 22-FEB-2013 13:48

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512374

Operator: SCC



Manual Integration Report

Data File: 1CB22009.D
Inj. Date and Time: 22-FEB-2013 13:48
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

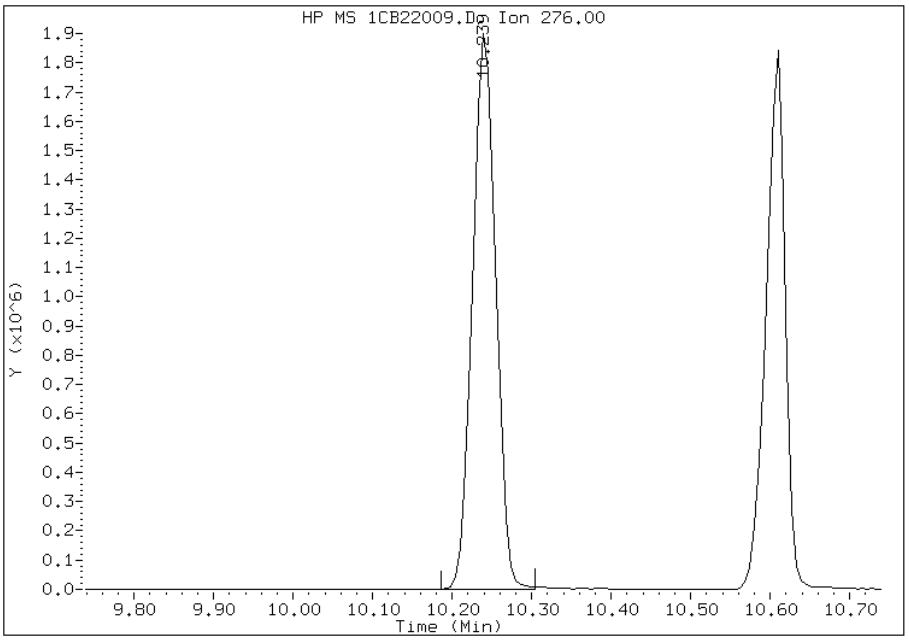
Processing Integration Results

RT: 10.24

Response: 3825990

Amount: 51

Conc: 51



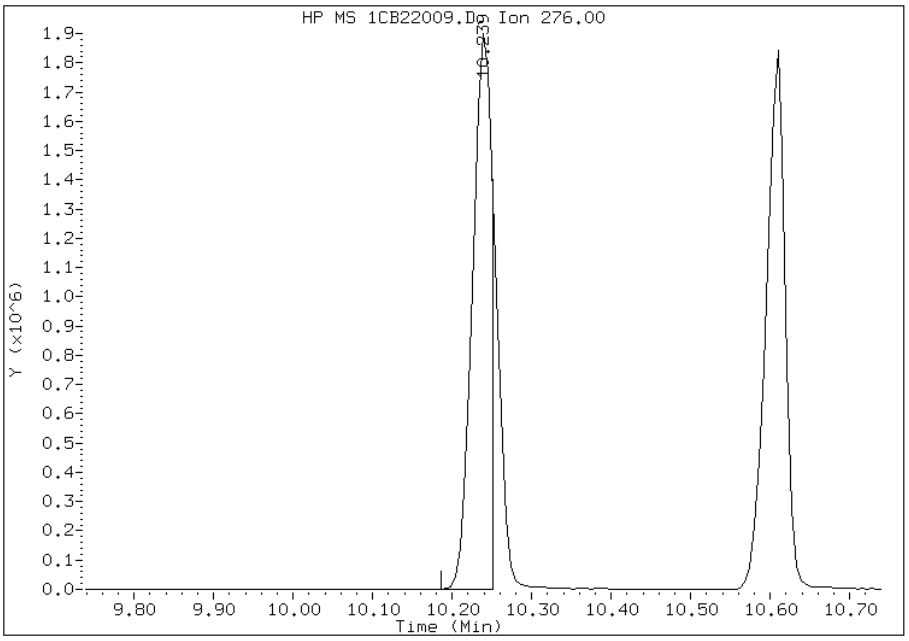
Manual Integration Results

RT: 10.24

Response: 3187834

Amount: 51

Conc: 51



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:15
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-87655-3 Analy Batch No.: 134781

SDG No.: 68087655-3

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

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134781/3	1DB22003.D
Level 2	IC 660-134781/4	1DB22004.D
Level 3	IC 660-134781/5	1DB22005.D
Level 4	IC 660-134781/6	1DB22006.D
Level 5	ICIS 660-134781/7	1DB22007.D
Level 6	IC 660-134781/8	1DB22008.D
Level 7	IC 660-134781/9	1DB22009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	1.1280 1.0523	1.0553 1.0405	1.0642	1.0918	1.0581	Ave		1.0700			0.0000	2.8		15.0			
2-Methylnaphthalene	0.7034 0.6669	0.6712 0.6728	0.6797	0.7002	0.6770	Ave		0.6816			0.0000	2.1		15.0			
1-Methylnaphthalene	0.6099 0.6325	0.6631 0.6258	0.6460	0.6514	0.6392	Ave		0.6383			0.0000	2.7		15.0			
Acenaphthylene	1.6661 1.7814	1.7639 1.7689	1.7448	1.8238	1.7955	Ave		1.7635			0.0000	2.8		15.0			
Acenaphthene	1.1402 1.0526	1.0845 1.0396	1.0477	1.1072	1.0550	Ave		1.0753			0.0000	3.5		15.0			
Fluorene	1.2209 1.2661	1.2731 1.2520	1.2478	1.2756	1.2585	Ave		1.2563			0.0000	1.5		15.0			
Phenanthrene	1.2165 1.1039	1.1314 1.0752	1.1449	1.1623	1.1141	Ave		1.1355			0.0000	4.0		15.0			
Anthracene	1.1088 1.1419	1.0967 1.1309	1.1548	1.1738	1.1455	Ave		1.1361			0.0000	2.3		15.0			
Carbazole	0.9989 1.0251	0.9725 1.0106	1.0326	1.0515	1.0179	Ave		1.0156			0.0000	2.5		15.0			
Fluoranthene	1.2255 1.1884	1.1239 1.1523	1.1976	1.2199	1.1869	Ave		1.1849			0.0000	3.0		15.0			
Pyrene	1.1729 1.2433	1.2578 1.2072	1.2525	1.2954	1.2562	Ave		1.2408			0.0000	3.2		15.0			
Benzo[a]anthracene	1.6058 1.1034	1.1616 1.0898	1.1024	1.1235	1.1016	LinF		1.0951			0.0000				0.9999		0.9900
Chrysene	1.1781 1.1047	1.1583 1.0841	1.1177	1.1544	1.1168	Ave		1.1306			0.0000	3.0		15.0			
Benzo[b]fluoranthene	0.9830 1.0461	1.0325 1.0528	1.0066	1.0593	1.0269	Ave		1.0296			0.0000	2.6		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-87655-3 Analy Batch No.: 134781

SDG No.: 68087655-3

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

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.0760 1.0603	1.0460 1.0472	1.1052	1.1212	1.0903	Ave		1.0780			0.0000	2.7		15.0			
Benzo[a]pyrene	0.9398 1.0484	0.9776 1.0366	1.0344	1.0539	1.0414	Ave		1.0189			0.0000	4.2		15.0			
Indeno[1,2,3-cd]pyrene	1.0120 1.1423	1.0104 1.1459	1.0416	1.1166	1.1424	Ave		1.0873			0.0000	5.8		15.0			
Dibenz(a,h)anthracene	0.9455 1.0206	0.9830 1.0192	1.0084	1.0295	1.0229	Ave		1.0042			0.0000	3.0		15.0			
Benzo[g,h,i]perylene	1.0182 1.0480	1.0153 1.0408	1.0329	1.0607	1.0410	Ave		1.0367			0.0000	1.6		15.0			
o-Terphenyl	0.6320 0.6161	0.6127 0.5977	0.6203	0.6323	0.6189	Ave		0.6186			0.0000	1.9		15.0			

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

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-87655-3 Analy Batch No.: 134781

SDG No.: 68087655-3

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

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134781/3	1DB22003.D
Level 2	IC 660-134781/4	1DB22004.D
Level 3	IC 660-134781/5	1DB22005.D
Level 4	IC 660-134781/6	1DB22006.D
Level 5	ICIS 660-134781/7	1DB22007.D
Level 6	IC 660-134781/8	1DB22008.D
Level 7	IC 660-134781/9	1DB22009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 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	15953 2298963	74498 3699527	371017	777491	1508569	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	9948 1457082	47384 2392281	236964	498648	965225	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	8626 1381962	46812 2225072	225226	463905	911252	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	14047 2298195	75049 3717778	364710	773248	1512937	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	9613 1357997	46142 2184846	218994	469400	889006	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	10293 1633465	54168 2631357	260823	540812	1060484	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	16602 2324547	78922 3708574	386527	798454	1536701	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	15132 2404366	76501 3900989	389851	806411	1580088	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	13633 2158453	67837 3485796	348596	722383	1404089	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	16725 2502381	78399 3974777	404310	838075	1637186	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	16387 2630026	86802 4199944	429030	897242	1722041	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	LinF	22435 2334008	80159 3791270	377597	778182	1510209	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	16460 2336752	79936 3771462	382861	799570	1531008	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	14372 2331940	74603 3853307	359912	772745	1490545	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	15732 2363523	75578 3832862	395166	817887	1582576	0.200 30.0	1.00 50.0	5.00	10.0	20.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-87655-3 Analy Batch No.: 134781

SDG No.: 68087655-3

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

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 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	13740 2336988	70635 3794269	369863	768774	1511646	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	14796 2546397	73004 4194422	372428	814504	1658275	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	13824 2275035	71027 3730665	360565	750999	1484721	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	14886 2336152	73360 3809441	369321	773773	1511031	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	8625 1297334	42735 2061660	209410	434393	853642	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
LinF = Linear ISTD forced zero

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22003.D
Lab Smp Id: IC-1512358
Inj Date : 22-FEB-2013 12:13
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512358
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.184	6.184	(1.000)	2828471	40.0000	
* 6 Acenaphthene-d10	164	7.858	7.858	(1.000)	1686180	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2729489	40.0000	
$ 13 o-Terphenyl	230	9.421	9.421	(1.034)	8625	0.20000	0.20
* 17 Chrysene-d12	240	11.454	11.454	(1.000)	2794246	40.0000	
* 22 Perylene-d12	264	13.334	13.334	(1.000)	2924062	40.0000	
2 Naphthalene	128	6.201	6.201	(1.003)	15953	0.20000	0.21
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	9948	0.20000	0.21
4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	8626	0.20000	0.19
5 Acenaphthylene	152	7.723	7.723	(0.983)	14047	0.20000	0.19
7 Acenaphthene	154	7.882	7.882	(1.003)	9613	0.20000	0.21
8 Fluorene	166	8.322	8.322	(1.059)	10293	0.20000	0.19
10 Phenanthrene	178	9.127	9.127	(1.001)	16602	0.20000	0.21
11 Anthracene	178	9.168	9.168	(1.006)	15132	0.20000	0.20
12 Carbazole	167	9.303	9.303	(1.021)	13633	0.20000	0.20
14 Fluoranthene	202	10.114	10.114	(1.110)	16725	0.20000	0.21
15 Pyrene	202	10.302	10.302	(0.899)	16387	0.20000	0.19
16 Benzo(a)anthracene	228	11.436	11.436	(0.998)	22435	0.20000	0.27
18 Chrysene	228	11.477	11.477	(1.002)	16460	0.20000	0.21
19 Benzo(b)fluoranthene	252	12.764	12.764	(0.957)	14372	0.20000	0.19
20 Benzo(k)fluoranthene	252	12.799	12.799	(0.960)	15732	0.20000	0.20
21 Benzo(a)pyrene	252	13.222	13.222	(0.992)	13740	0.20000	0.18
23 Indeno(1,2,3-cd)pyrene	276	14.932	14.932	(1.120)	14796	0.20000	0.19(H)
24 Dibenzo(a,h)anthracene	278	14.967	14.967	(1.122)	13824	0.20000	0.19(MH)
25 Benzo(g,h,i)perylene	276	15.379	15.379	(1.153)	14886	0.20000	0.20(MH)

QC Flag Legend

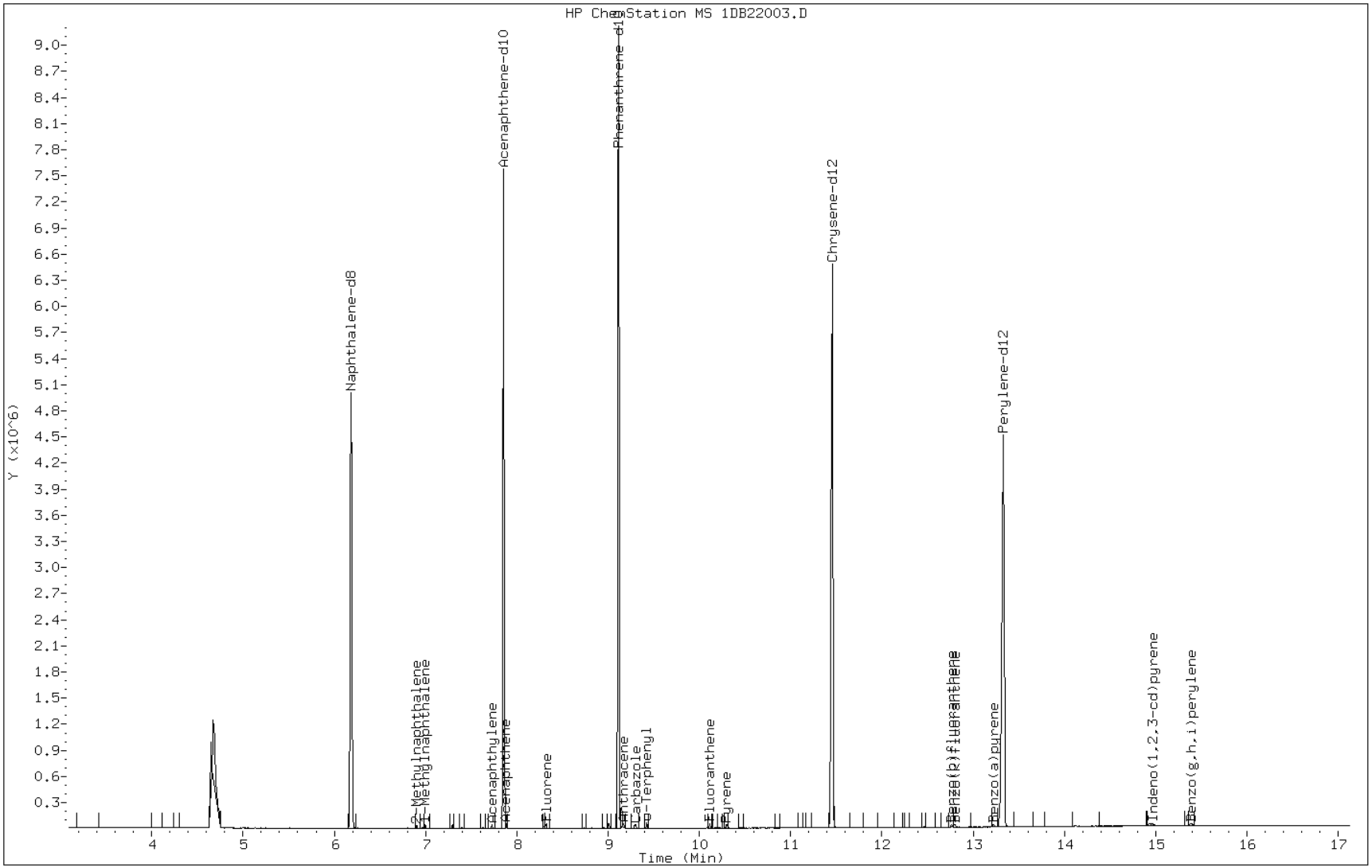
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22003.D

Date: 22-FEB-2013 12:13

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512358 Operator: SCC



Manual Integration Report

Data File: 1DB22003.D
Inj. Date and Time: 22-FEB-2013 12:13
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/22/2013

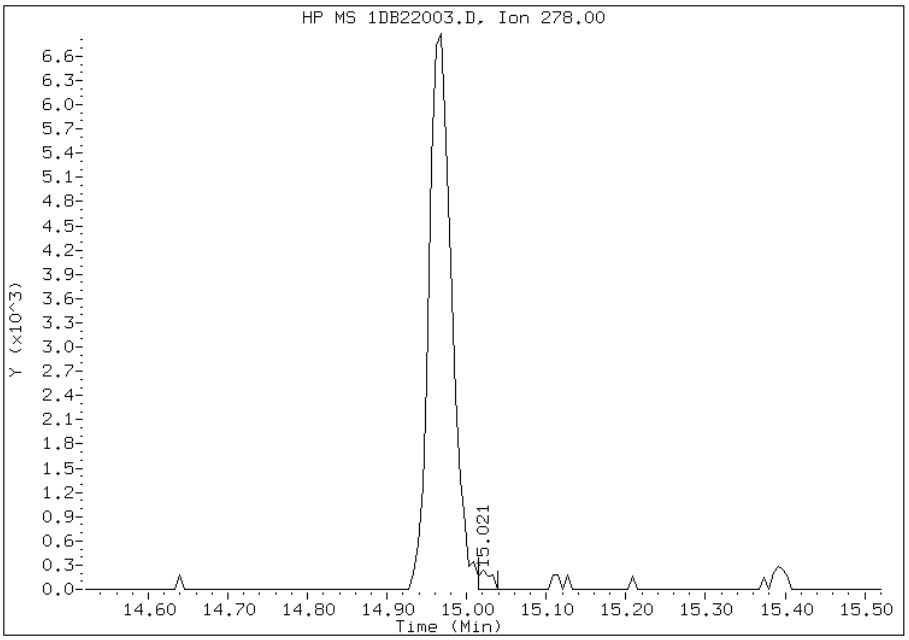
Processing Integration Results

RT: 15.02

Response: 262

Amount: 0

Conc: 0



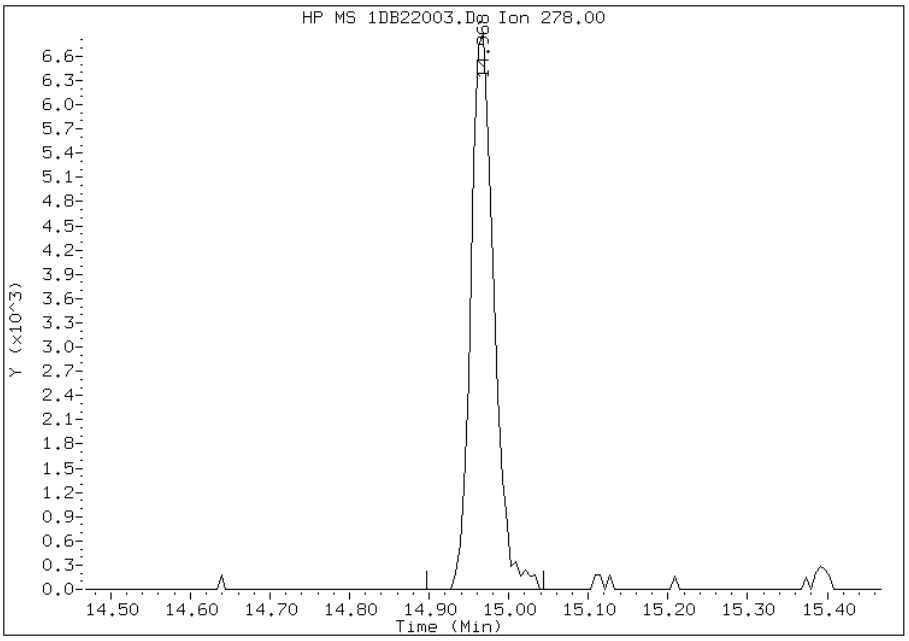
Manual Integration Results

RT: 14.97

Response: 13824

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DB22003.D
Inj. Date and Time: 22-FEB-2013 12:13
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/22/2013

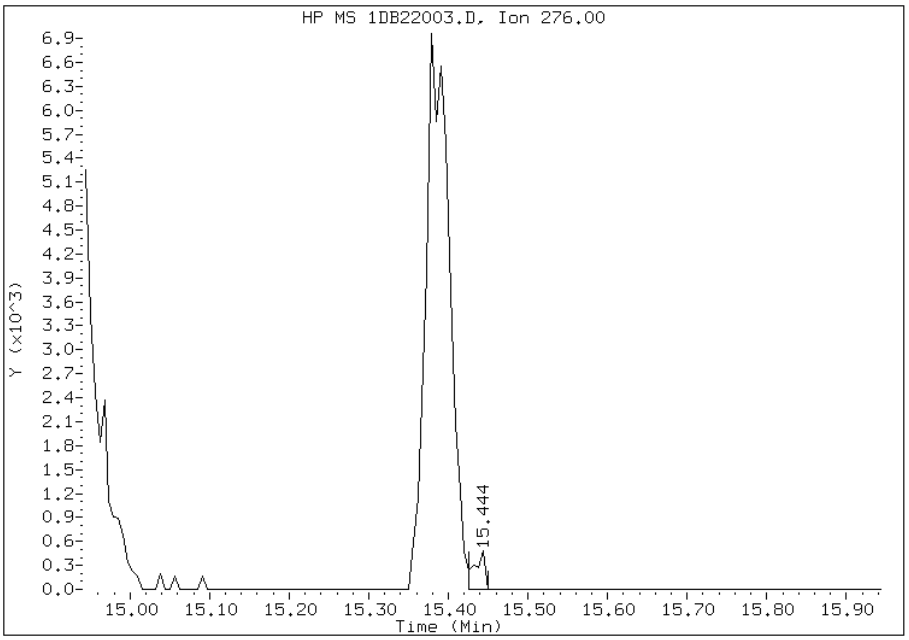
Processing Integration Results

RT: 15.44

Response: 456

Amount: 0

Conc: 0



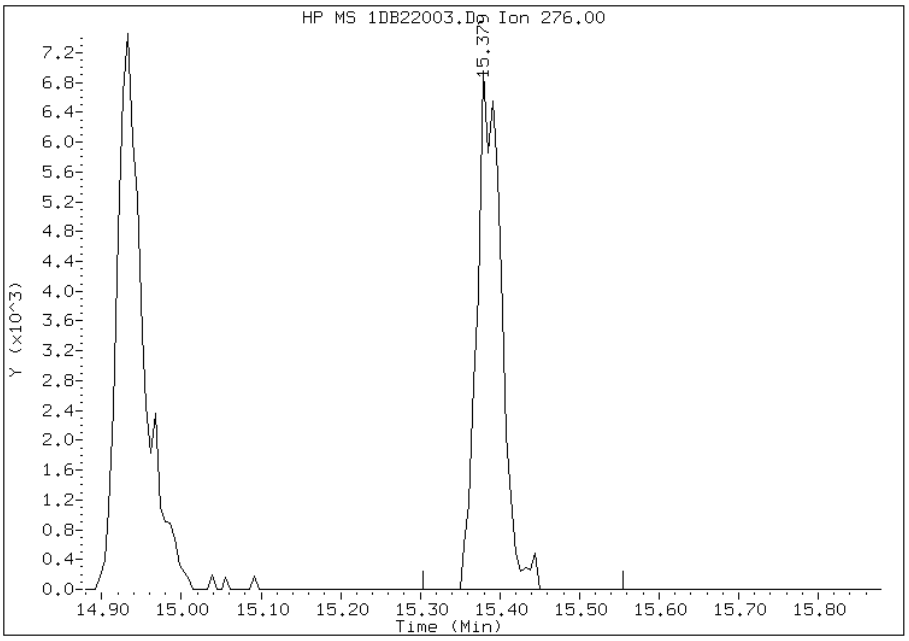
Manual Integration Results

RT: 15.38

Response: 14886

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:57
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22004.D
Lab Smp Id: IC-1512359
Inj Date : 22-FEB-2013 12:35
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512359
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:13 Cal File: 1DB22003.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.186	6.186	(1.000)	2823768	40.0000	
* 6 Acenaphthene-d10	164	7.854	7.854	(1.000)	1701879	40.0000	
* 9 Phenanthrene-d10	188	9.112	9.112	(1.000)	2790130	40.0000	
$ 13 o-Terphenyl	230	9.423	9.423	(1.034)	42735	1.00000	0.99
* 17 Chrysene-d12	240	11.456	11.456	(1.000)	2760384	40.0000	
* 22 Perylene-d12	264	13.330	13.330	(1.000)	2890207	40.0000	
2 Naphthalene	128	6.203	6.203	(1.003)	74498	1.00000	0.99
3 2-Methylnaphthalene	142	6.902	6.902	(1.116)	47384	1.00000	0.98
4 1-Methylnaphthalene	142	6.997	6.997	(1.131)	46812	1.00000	1.0
5 Acenaphthylene	152	7.725	7.725	(0.984)	75049	1.00000	1.0
7 Acenaphthene	154	7.878	7.878	(1.003)	46142	1.00000	1.0
8 Fluorene	166	8.318	8.318	(1.059)	54168	1.00000	1.0
10 Phenanthrene	178	9.129	9.129	(1.002)	78922	1.00000	1.00
11 Anthracene	178	9.170	9.170	(1.006)	76501	1.00000	0.96
12 Carbazole	167	9.306	9.306	(1.021)	67837	1.00000	0.96
14 Fluoranthene	202	10.111	10.111	(1.110)	78399	1.00000	0.95
15 Pyrene	202	10.299	10.299	(0.899)	86802	1.00000	1.0
16 Benzo(a)anthracene	228	11.432	11.432	(0.998)	80159	1.00000	0.98
18 Chrysene	228	11.474	11.474	(1.002)	79936	1.00000	1.0
19 Benzo(b)fluoranthene	252	12.760	12.760	(0.957)	74603	1.00000	1.0
20 Benzo(k)fluoranthene	252	12.796	12.796	(0.960)	75578	1.00000	0.97
21 Benzo(a)pyrene	252	13.219	13.219	(0.992)	70635	1.00000	0.96
23 Indeno(1,2,3-cd)pyrene	276	14.934	14.934	(1.120)	73004	1.00000	0.93(M)
24 Dibenzo(a,h)anthracene	278	14.964	14.964	(1.123)	71027	1.00000	0.98(H)
25 Benzo(g,h,i)perylene	276	15.381	15.381	(1.154)	73360	1.00000	0.98(H)

QC Flag Legend

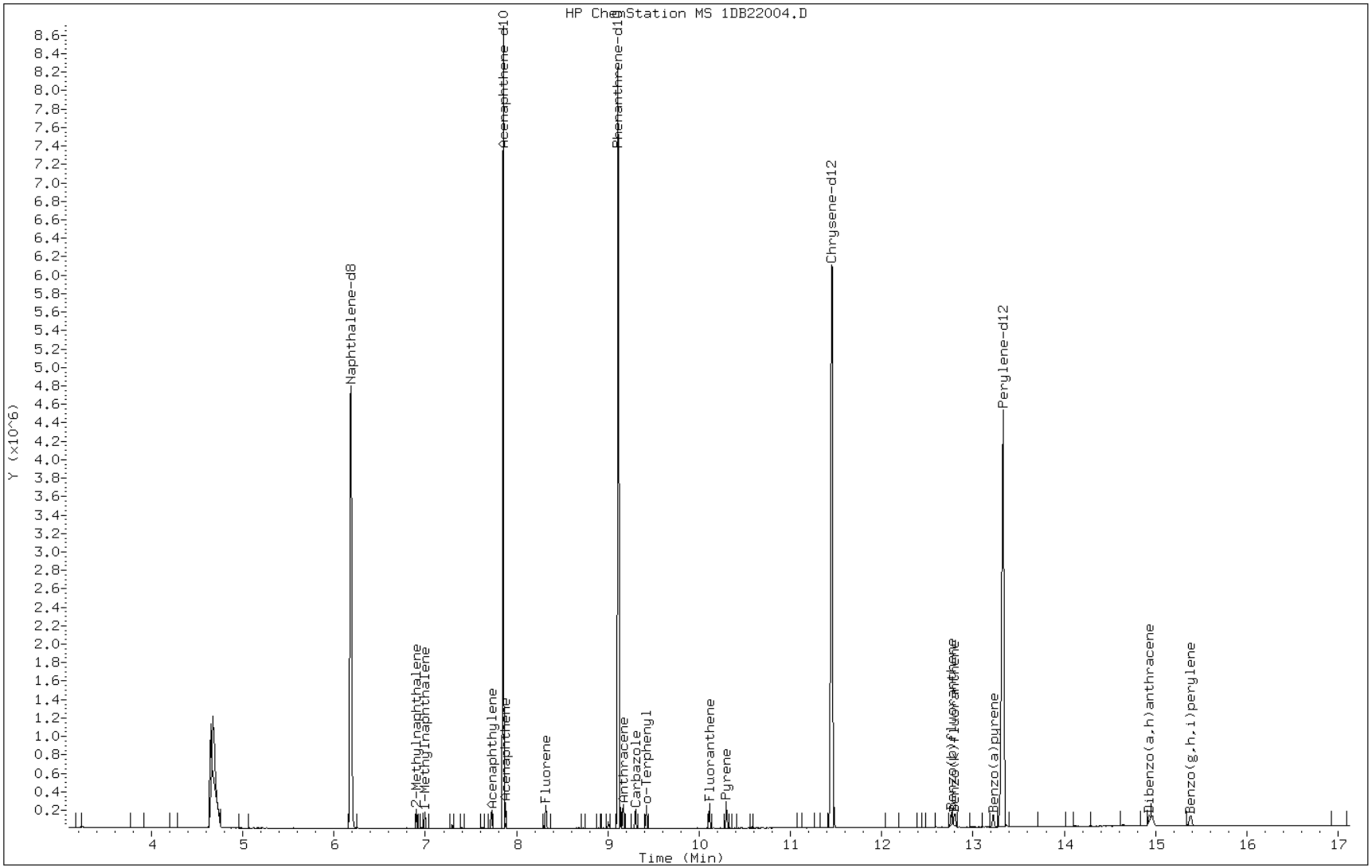
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22004.D

Date: 22-FEB-2013 12:35

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512359 Operator: SCC



Manual Integration Report

Data File: 1DB22004.D
Inj. Date and Time: 22-FEB-2013 12:35
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

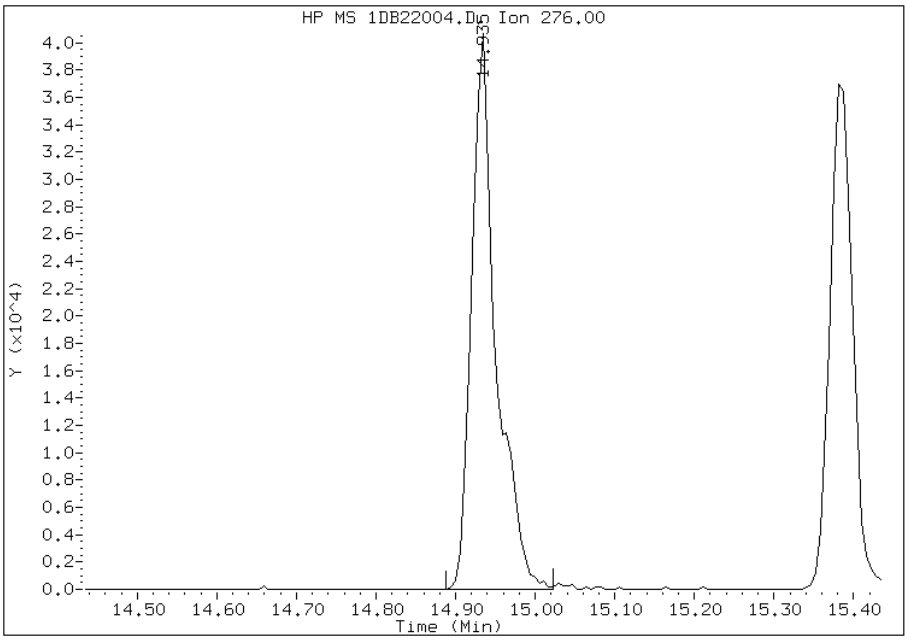
Processing Integration Results

RT: 14.93

Response: 86267

Amount: 1

Conc: 1



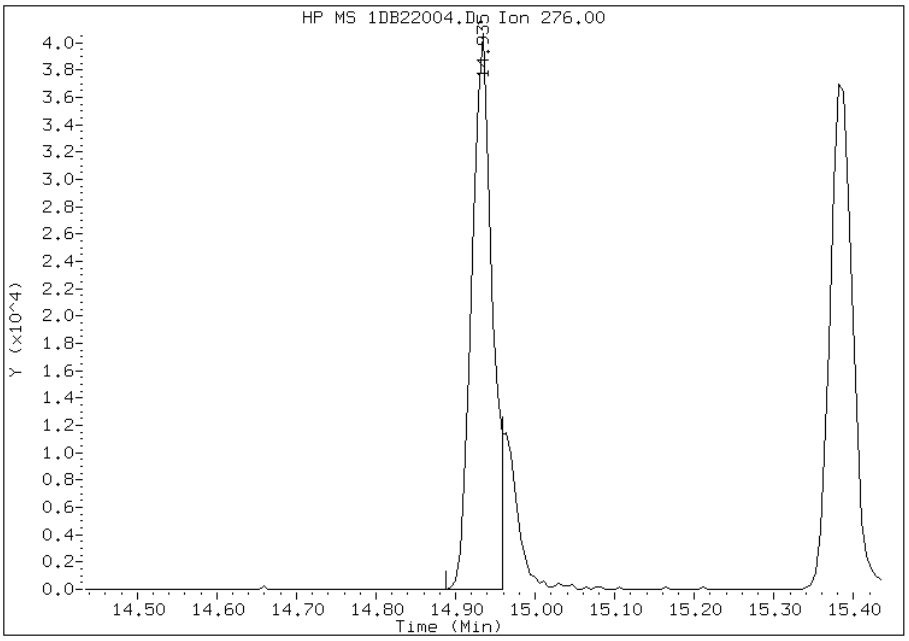
Manual Integration Results

RT: 14.93

Response: 73004

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:58
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22005.D
Lab Smp Id: IC-1512360
Inj Date : 22-FEB-2013 12:58
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512360
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:35 Cal File: 1DB22004.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.184	6.184	(1.000)	2789095	40.0000	
* 6 Acenaphthene-d10	164	7.853	7.853	(1.000)	1672170	40.0000	
* 9 Phenanthrene-d10	188	9.116	9.116	(1.000)	2700824	40.0000	
$ 13 o-Terphenyl	230	9.421	9.421	(1.034)	209410	5.00000	5.0
* 17 Chrysene-d12	240	11.454	11.454	(1.000)	2740282	40.0000	
* 22 Perylene-d12	264	13.334	13.334	(1.000)	2860502	40.0000	
2 Naphthalene	128	6.202	6.202	(1.003)	371017	5.00000	5.0
3 2-Methylnaphthalene	142	6.901	6.901	(1.116)	236964	5.00000	5.0
4 1-Methylnaphthalene	142	6.995	6.995	(1.131)	225226	5.00000	5.1
5 Acenaphthylene	152	7.723	7.723	(0.984)	364710	5.00000	4.9
7 Acenaphthene	154	7.876	7.876	(1.003)	218994	5.00000	4.9
8 Fluorene	166	8.323	8.323	(1.060)	260823	5.00000	5.0
10 Phenanthrene	178	9.134	9.134	(1.002)	386527	5.00000	5.0
11 Anthracene	178	9.169	9.169	(1.006)	389851	5.00000	5.1
12 Carbazole	167	9.304	9.304	(1.021)	348596	5.00000	5.1
14 Fluoranthene	202	10.115	10.115	(1.110)	404310	5.00000	5.0
15 Pyrene	202	10.303	10.303	(0.899)	429030	5.00000	5.0
16 Benzo(a)anthracene	228	11.437	11.437	(0.998)	377597	5.00000	4.6
18 Chrysene	228	11.478	11.478	(1.002)	382861	5.00000	4.9
19 Benzo(b)fluoranthene	252	12.765	12.765	(0.957)	359912	5.00000	4.9
20 Benzo(k)fluoranthene	252	12.806	12.806	(0.960)	395166	5.00000	5.1
21 Benzo(a)pyrene	252	13.229	13.229	(0.992)	369863	5.00000	5.1
23 Indeno(1,2,3-cd)pyrene	276	14.938	14.938	(1.120)	372428	5.00000	4.8(M)
24 Dibenzo(a,h)anthracene	278	14.974	14.974	(1.123)	360565	5.00000	5.0(H)
25 Benzo(g,h,i)perylene	276	15.391	15.391	(1.154)	369321	5.00000	5.0(H)

QC Flag Legend

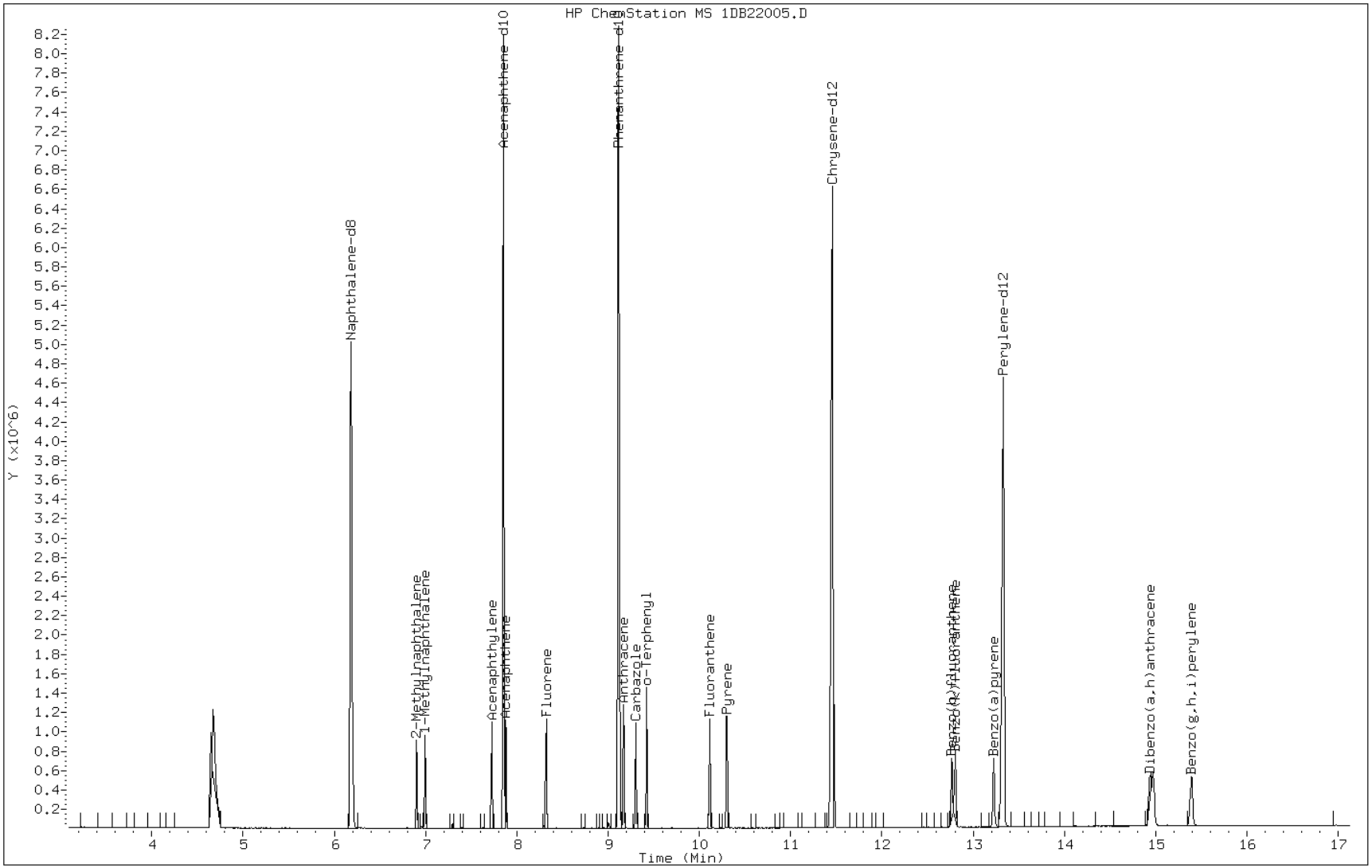
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22005.D

Date: 22-FEB-2013 12:58

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512360 Operator: SCC



Manual Integration Report

Data File: 1DB22005.D
Inj. Date and Time: 22-FEB-2013 12:58
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

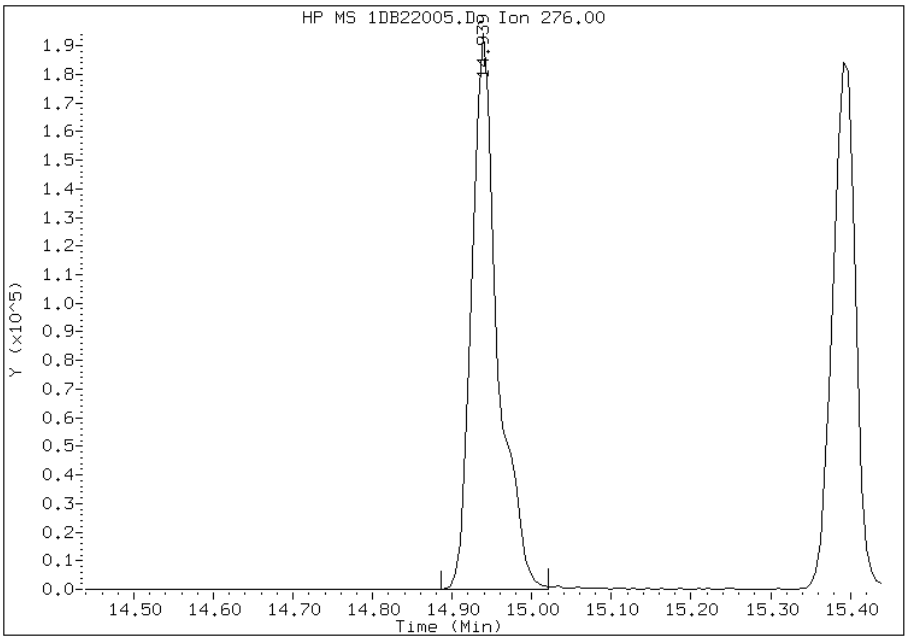
Processing Integration Results

RT: 14.94

Response: 437022

Amount: 5

Conc: 5



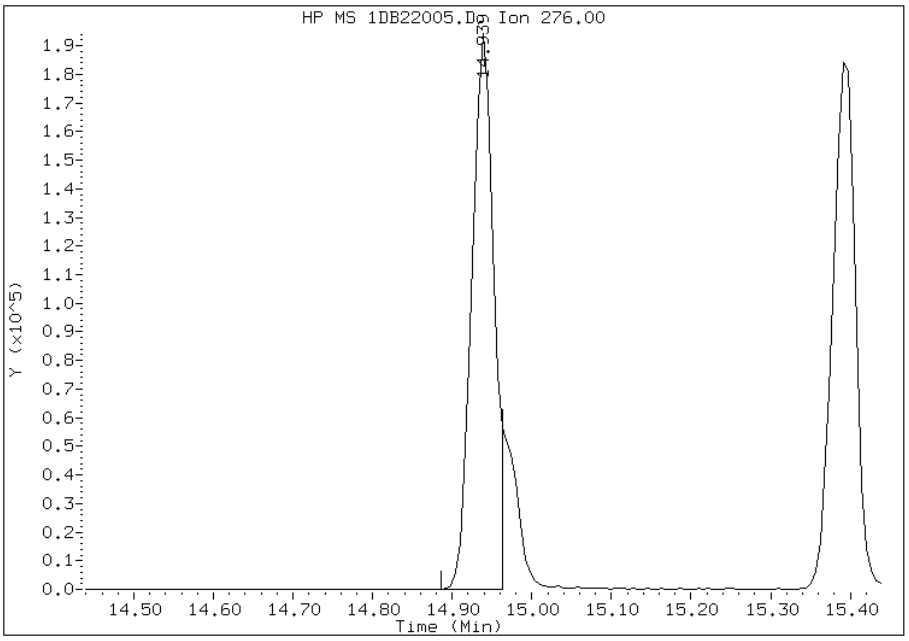
Manual Integration Results

RT: 14.94

Response: 372428

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:58
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22006.D
Lab Smp Id: IC-1512361
Inj Date : 22-FEB-2013 13:21
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512361
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:58 Cal File: 1DB22005.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2848559	40.0000	
* 6 Acenaphthene-d10	164	7.858	7.858	(1.000)	1695869	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2747931	40.0000	
$ 13 o-Terphenyl	230	9.420	9.420	(1.034)	434393	10.0000	10
* 17 Chrysene-d12	240	11.459	11.459	(1.000)	2770572	40.0000	
* 22 Perylene-d12	264	13.333	13.333	(1.000)	2917915	40.0000	
2 Naphthalene	128	6.207	6.207	(1.004)	777491	10.0000	10
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	498648	10.0000	10
4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	463905	10.0000	10
5 Acenaphthylene	152	7.728	7.728	(0.984)	773248	10.0000	10
7 Acenaphthene	154	7.881	7.881	(1.003)	469400	10.0000	10
8 Fluorene	166	8.322	8.322	(1.059)	540812	10.0000	10
10 Phenanthrene	178	9.132	9.132	(1.002)	798454	10.0000	10
11 Anthracene	178	9.174	9.174	(1.006)	806411	10.0000	10
12 Carbazole	167	9.309	9.309	(1.021)	722383	10.0000	10
14 Fluoranthene	202	10.114	10.114	(1.110)	838075	10.0000	10
15 Pyrene	202	10.302	10.302	(0.899)	897242	10.0000	10
16 Benzo(a)anthracene	228	11.436	11.436	(0.998)	778182	10.0000	9.5
18 Chrysene	228	11.477	11.477	(1.002)	799570	10.0000	10
19 Benzo(b)fluoranthene	252	12.769	12.769	(0.958)	772745	10.0000	10
20 Benzo(k)fluoranthene	252	12.811	12.811	(0.961)	817887	10.0000	10
21 Benzo(a)pyrene	252	13.228	13.228	(0.992)	768774	10.0000	10
23 Indeno(1,2,3-cd)pyrene	276	14.943	14.943	(1.121)	814504	10.0000	10(M)
24 Dibenzo(a,h)anthracene	278	14.979	14.979	(1.123)	750999	10.0000	10(H)
25 Benzo(g,h,i)perylene	276	15.407	15.407	(1.156)	773773	10.0000	10(H)

QC Flag Legend

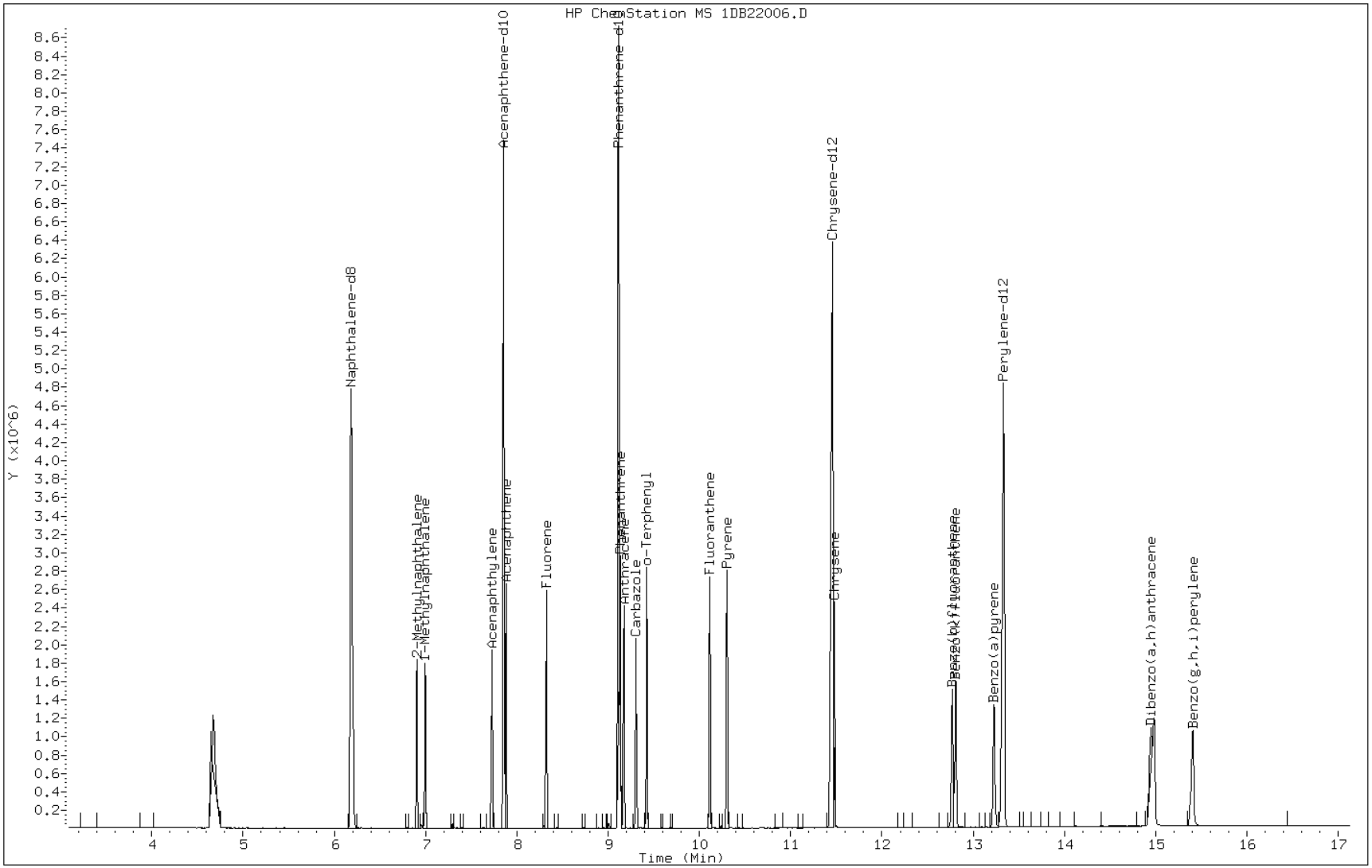
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22006.D

Date: 22-FEB-2013 13:21

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512361 Operator: SCC



Manual Integration Report

Data File: 1DB22006.D
Inj. Date and Time: 22-FEB-2013 13:21
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

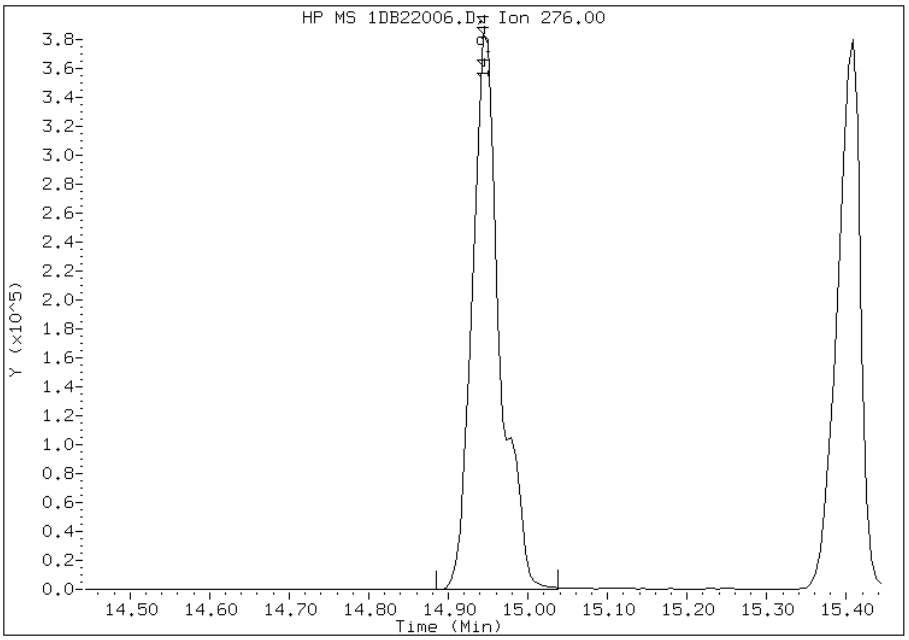
Processing Integration Results

RT: 14.94

Response: 923395

Amount: 11

Conc: 11



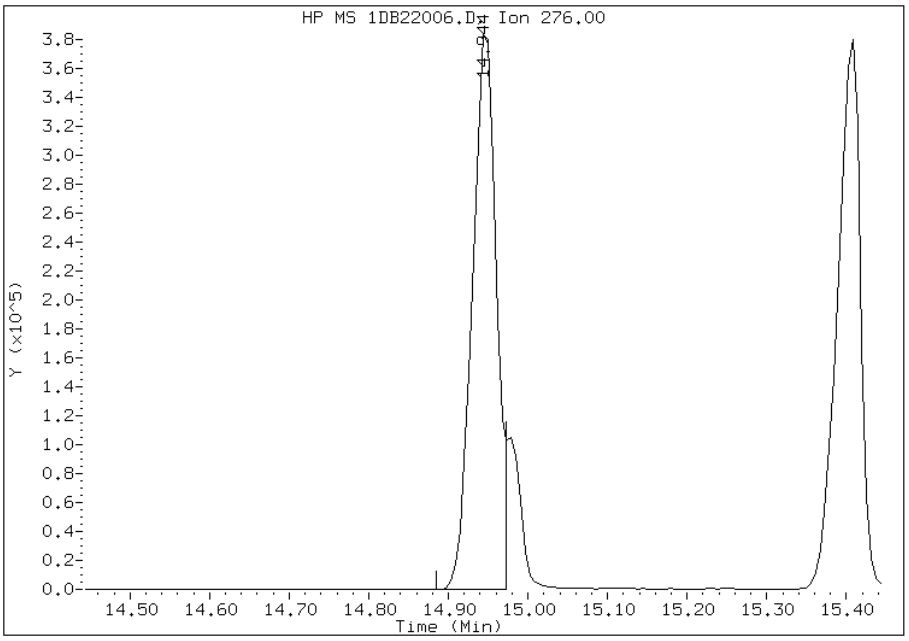
Manual Integration Results

RT: 14.94

Response: 814504

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:59
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22007.D
Lab Smp Id: ICIS-1512372
Inj Date : 22-FEB-2013 13:43
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:21 Cal File: 1DB22006.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

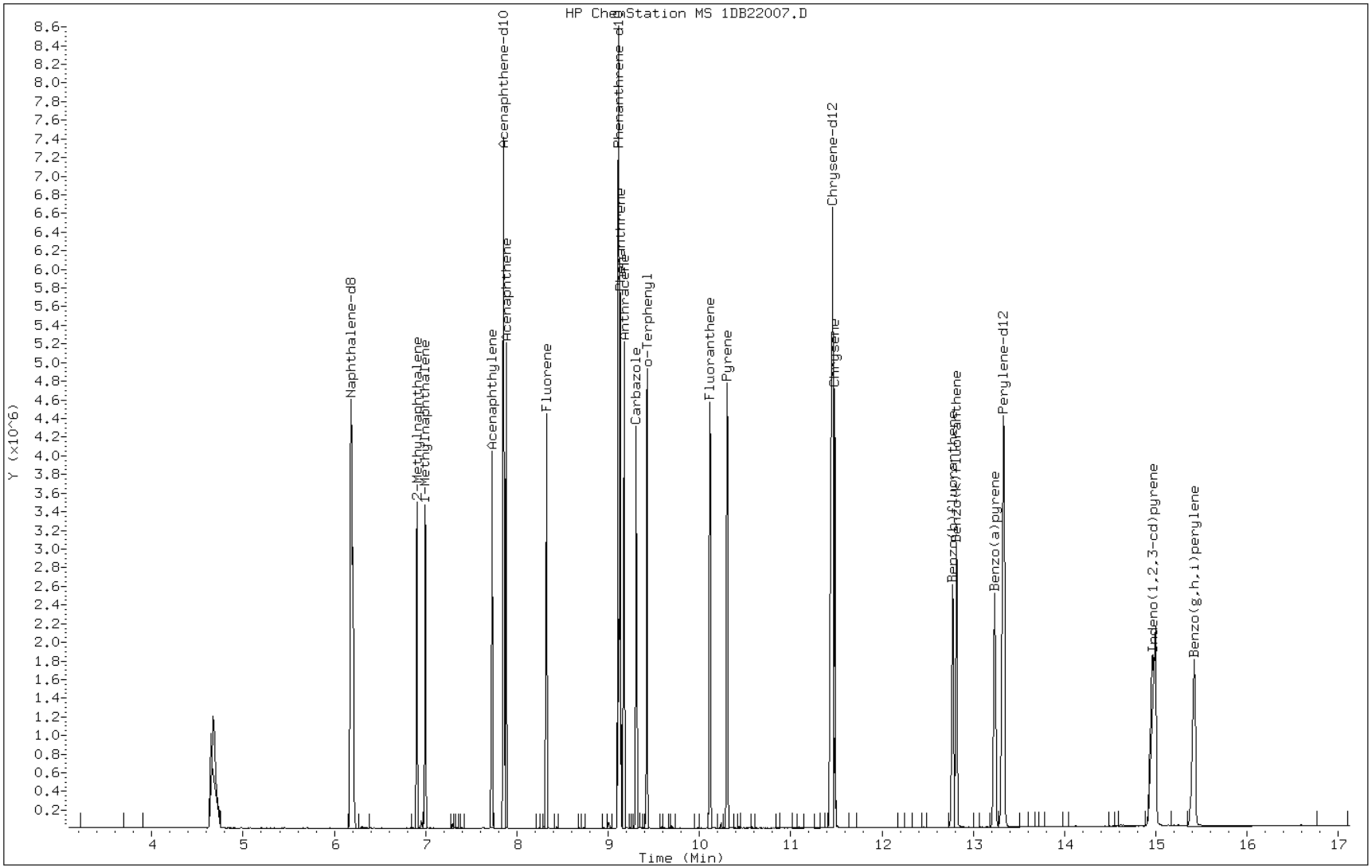
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2851402	40.0000	
* 6 Acenaphthene-d10	164	7.857	7.857	(1.000)	1685266	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2758746	40.0000	
$ 13 o-Terphenyl	230	9.426	9.426	(1.034)	853642	20.0000	20
* 17 Chrysene-d12	240	11.459	11.459	(1.000)	2741766	40.0000	
* 22 Perylene-d12	264	13.333	13.333	(1.000)	2903096	40.0000	
2 Naphthalene	128	6.206	6.206	(1.004)	1508569	20.0000	20
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	965225	20.0000	20
4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	911252	20.0000	20
5 Acenaphthylene	152	7.728	7.728	(0.984)	1512937	20.0000	20
7 Acenaphthene	154	7.881	7.881	(1.003)	889006	20.0000	20
8 Fluorene	166	8.321	8.321	(1.059)	1060484	20.0000	20
10 Phenanthrene	178	9.132	9.132	(1.002)	1536701	20.0000	20
11 Anthracene	178	9.173	9.173	(1.006)	1580088	20.0000	20
12 Carbazole	167	9.309	9.309	(1.021)	1404089	20.0000	20
14 Fluoranthene	202	10.114	10.114	(1.110)	1637186	20.0000	20
15 Pyrene	202	10.302	10.302	(0.899)	1722041	20.0000	20
16 Benzo(a)anthracene	228	11.435	11.435	(0.998)	1510209	20.0000	19
18 Chrysene	228	11.482	11.482	(1.002)	1531008	20.0000	20
19 Benzo(b)fluoranthene	252	12.775	12.775	(0.958)	1490545	20.0000	20
20 Benzo(k)fluoranthene	252	12.816	12.816	(0.961)	1582576	20.0000	20
21 Benzo(a)pyrene	252	13.239	13.239	(0.993)	1511646	20.0000	20
23 Indeno(1,2,3-cd)pyrene	276	14.961	14.961	(1.122)	1658275	20.0000	21
24 Dibenzo(a,h)anthracene	278	14.996	14.996	(1.125)	1484721	20.0000	20
25 Benzo(g,h,i)perylene	276	15.425	15.425	(1.157)	1511031	20.0000	20

Data File: 1DB22007.D

Date: 22-FEB-2013 13:43

Client ID: Instrument: BSMSD.i

Sample Info: ICIS-1512372 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22008.D
Lab Smp Id: IC-1512373
Inj Date : 22-FEB-2013 14:06
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512373
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 13:43 Cal File: 1DB22007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2913003	40.0000	
* 6 Acenaphthene-d10	164	7.852	7.852	(1.000)	1720184	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2807552	40.0000	
$ 13 o-Terphenyl	230	9.427	9.427	(1.034)	1297334	30.0000	30
* 17 Chrysene-d12	240	11.460	11.460	(1.000)	2820426	40.0000	
* 22 Perylene-d12	264	13.340	13.340	(1.000)	2972128	40.0000	
2 Naphthalene	128	6.207	6.207	(1.004)	2298963	30.0000	30
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	1457082	30.0000	29
4 1-Methylnaphthalene	142	7.000	7.000	(1.132)	1381962	30.0000	30
5 Acenaphthylene	152	7.729	7.729	(0.984)	2298195	30.0000	30
7 Acenaphthene	154	7.881	7.881	(1.004)	1357997	30.0000	29
8 Fluorene	166	8.328	8.328	(1.061)	1633465	30.0000	30
10 Phenanthrene	178	9.133	9.133	(1.002)	2324547	30.0000	29
11 Anthracene	178	9.174	9.174	(1.006)	2404366	30.0000	30
12 Carbazole	167	9.309	9.309	(1.021)	2158453	30.0000	30
14 Fluoranthene	202	10.120	10.120	(1.110)	2502381	30.0000	30
15 Pyrene	202	10.308	10.308	(0.900)	2630026	30.0000	30
16 Benzo(a)anthracene	228	11.442	11.442	(0.998)	2334008	30.0000	28
18 Chrysene	228	11.489	11.489	(1.003)	2336752	30.0000	29
19 Benzo(b)fluoranthene	252	12.781	12.781	(0.958)	2331940	30.0000	30
20 Benzo(k)fluoranthene	252	12.828	12.828	(0.962)	2363523	30.0000	30
21 Benzo(a)pyrene	252	13.246	13.246	(0.993)	2336988	30.0000	31
23 Indeno(1,2,3-cd)pyrene	276	14.973	14.973	(1.122)	2546397	30.0000	32
24 Dibenzo(a,h)anthracene	278	15.008	15.008	(1.125)	2275035	30.0000	30(H)
25 Benzo(g,h,i)perylene	276	15.443	15.443	(1.158)	2336152	30.0000	30(H)

QC Flag Legend

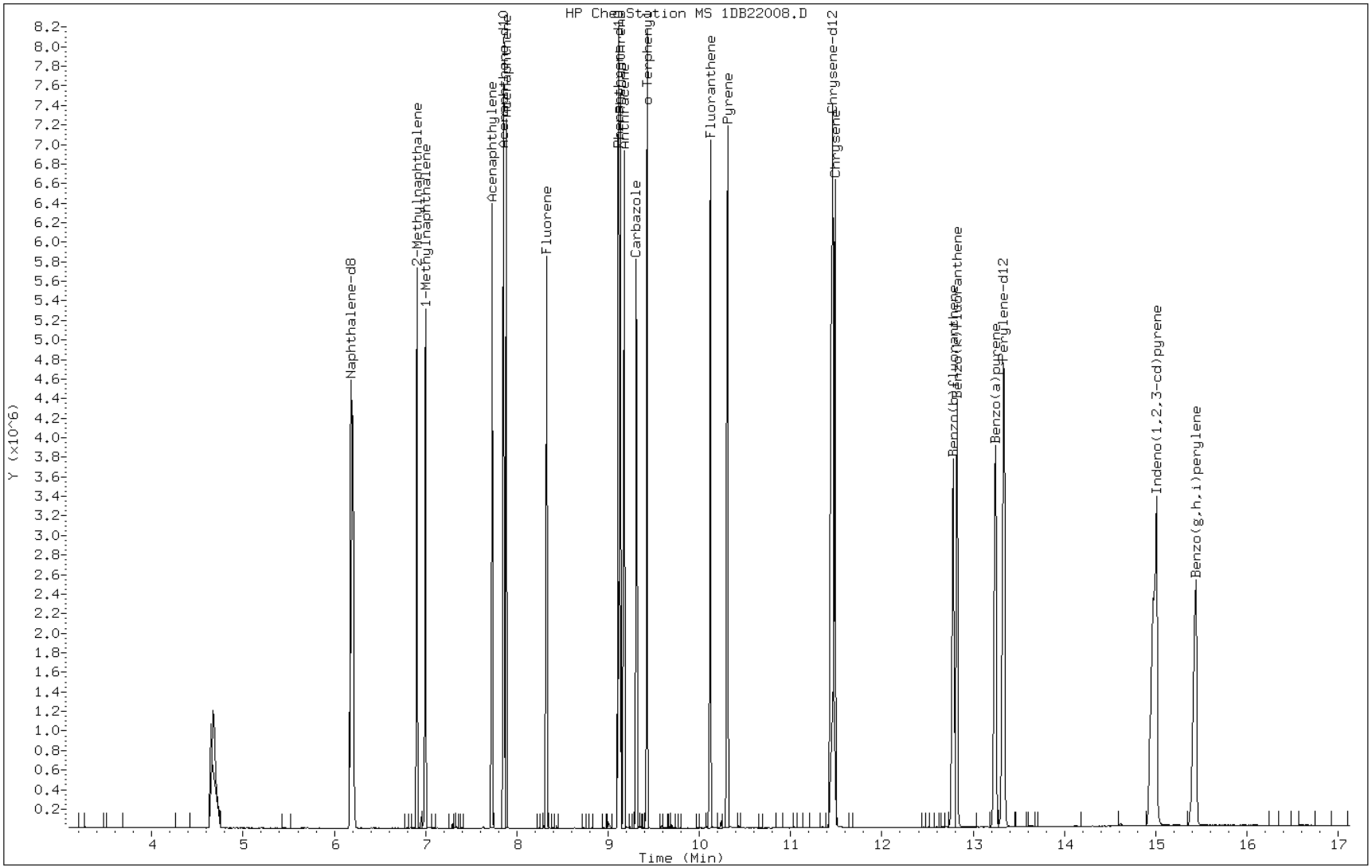
H - Operator selected an alternate compound hit.

Data File: 1DB22008.D

Date: 22-FEB-2013 14:06

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512373 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22009.D
Lab Smp Id: IC-1512374
Inj Date : 22-FEB-2013 14:28
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1512374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
Cal Date : 22-FEB-2013 14:06 Cal File: 1DB22008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.187	6.187	(1.000)	2844424	40.0000	
* 6 Acenaphthene-d10	164	7.856	7.856	(1.000)	1681359	40.0000	
* 9 Phenanthrene-d10	188	9.113	9.113	(1.000)	2759479	40.0000	
$ 13 o-Terphenyl	230	9.430	9.430	(1.035)	2061660	50.0000	48
* 17 Chrysene-d12	240	11.463	11.463	(1.000)	2783202	40.0000	
* 22 Perylene-d12	264	13.344	13.344	(1.000)	2928183	40.0000	
2 Naphthalene	128	6.205	6.205	(1.003)	3699527	50.0000	49
3 2-Methylnaphthalene	142	6.910	6.910	(1.117)	2392281	50.0000	49
4 1-Methylnaphthalene	142	6.998	6.998	(1.131)	2225072	50.0000	49
5 Acenaphthylene	152	7.732	7.732	(0.984)	3717778	50.0000	50(A)
7 Acenaphthene	154	7.885	7.885	(1.004)	2184846	50.0000	48
8 Fluorene	166	8.326	8.326	(1.060)	2631357	50.0000	50
10 Phenanthrene	178	9.137	9.137	(1.003)	3708574	50.0000	47
11 Anthracene	178	9.184	9.184	(1.008)	3900989	50.0000	50
12 Carbazole	167	9.313	9.313	(1.022)	3485796	50.0000	50
14 Fluoranthene	202	10.124	10.124	(1.111)	3974777	50.0000	49
15 Pyrene	202	10.312	10.312	(0.900)	4199944	50.0000	49
16 Benzo(a)anthracene	228	11.446	11.446	(0.998)	3791270	50.0000	46
18 Chrysene	228	11.499	11.499	(1.003)	3771462	50.0000	48
19 Benzo(b)fluoranthene	252	12.791	12.791	(0.959)	3853307	50.0000	51(A)
20 Benzo(k)fluoranthene	252	12.838	12.838	(0.962)	3832862	50.0000	48
21 Benzo(a)pyrene	252	13.261	13.261	(0.994)	3794269	50.0000	51(A)
23 Indeno(1,2,3-cd)pyrene	276	14.995	14.995	(1.124)	4194422	50.0000	53(AM)
24 Dibenzo(a,h)anthracene	278	15.030	15.030	(1.126)	3730665	50.0000	51(AH)
25 Benzo(g,h,i)perylene	276	15.465	15.465	(1.159)	3809441	50.0000	50(AH)

QC Flag Legend

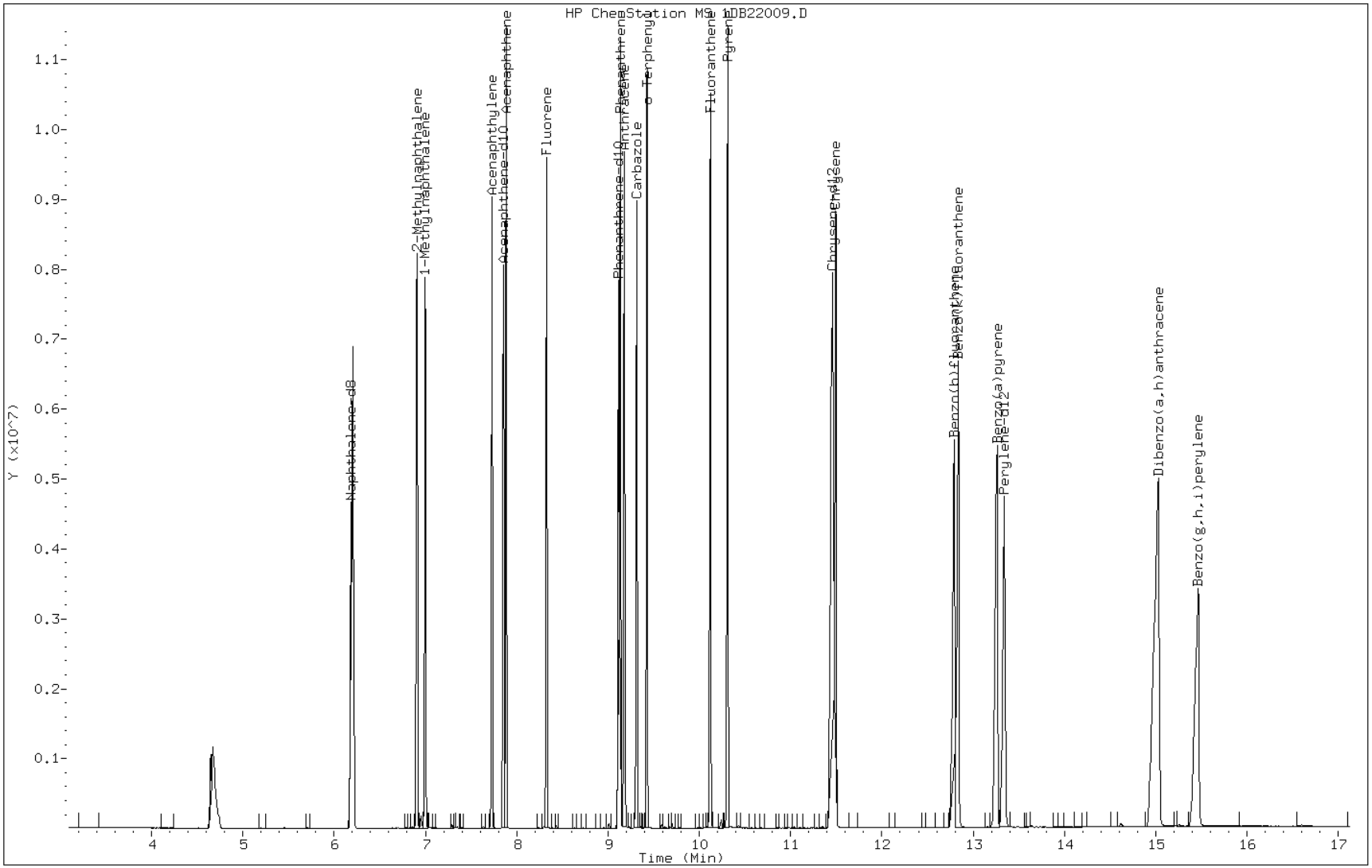
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB22009.D

Date: 22-FEB-2013 14:28

Client ID: Instrument: BSMSD.i

Sample Info: IC-1512374 Operator: SCC



Manual Integration Report

Data File: 1DB22009.D
Inj. Date and Time: 22-FEB-2013 14:28
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

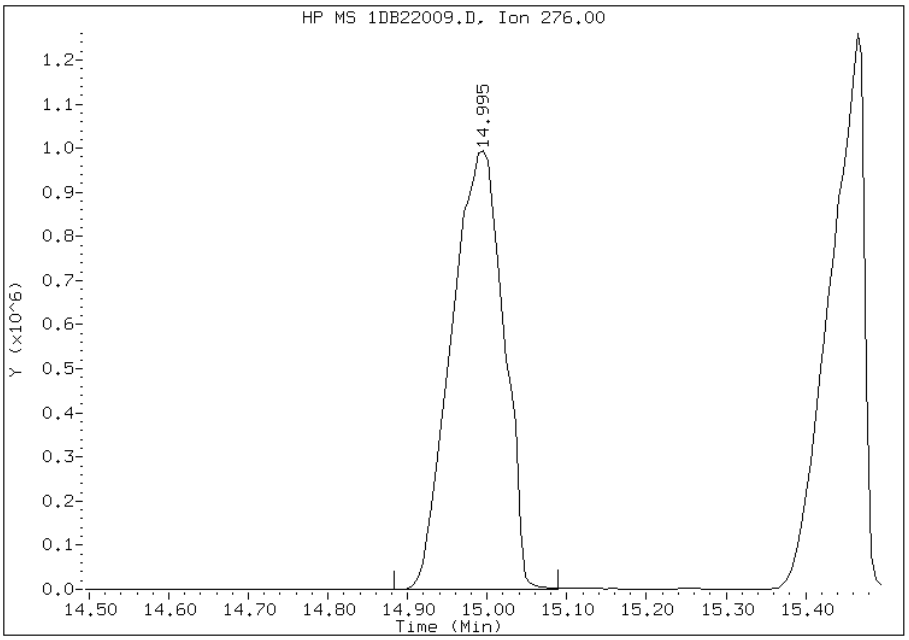
Processing Integration Results

RT: 15.00

Response: 4559640

Amount: 57

Conc: 57



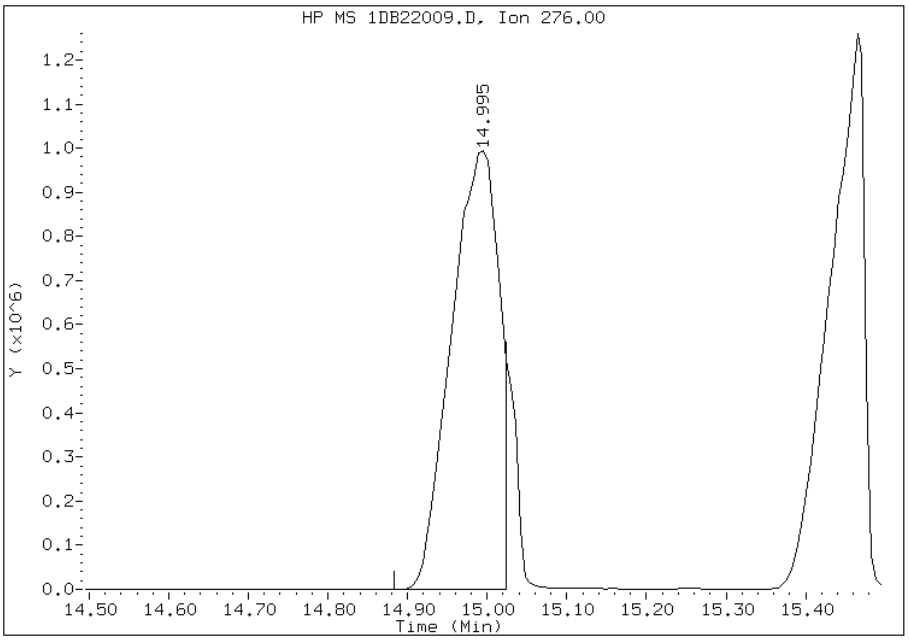
Manual Integration Results

RT: 15.00

Response: 4194422

Amount: 53

Conc: 53



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 15:00
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Lab Sample ID: ICV 660-134776/10 Calibration Date: 02/22/2013 14:06

Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 13:48

Lab File ID: 1CB22010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	0.9304	0.0000	17900	20000	-10.7	35.0
2-Methylnaphthalene	Ave	0.6946	0.6168	0.0000	17800	20000	-11.2	35.0
1-Methylnaphthalene	Ave	0.6326	0.5884	0.0000	18600	20000	-7.0	35.0
Acenaphthylene	Ave	1.613	1.474	0.0000	18300	20000	-8.6	35.0
Acenaphthene	Ave	1.002	0.9523	0.0000	19000	20000	-5.0	35.0
Fluorene	Ave	1.268	1.140	0.0000	18000	20000	-10.1	35.0
Phenanthrene	Ave	1.157	0.9494	0.0000	16400	20000	-17.9	35.0
Anthracene	Ave	1.131	0.9716	0.0000	17200	20000	-14.1	35.0
Carbazole	Ave	1.006	0.8745	0.0000	17400	20000	-13.0	35.0
Fluoranthene	Ave	1.267	1.118	0.0000	17700	20000	-11.7	35.0
Pyrene	Ave	1.075	0.8809	0.0000	16400	20000	-18.1	35.0
Benzo[a]anthracene	Ave	1.154	0.9788	0.0000	17000	20000	-15.2	35.0
Chrysene	Ave	1.155	0.9170	0.0000	15900	20000	-20.6	35.0
Benzo[b]fluoranthene	Ave	1.045	0.9777	0.0000	18700	20000	-6.5	35.0
Benzo[k]fluoranthene	Ave	1.072	0.8826	0.0000	16500	20000	-17.7	35.0
Benzo[a]pyrene	Ave	1.015	0.7948	0.0000	15700	20000	-21.7	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.8384	0.0000	17600	20000	-12.2	35.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8876	0.0000	19000	20000	-5.0	35.0
Benzo[g,h,i]perylene	Ave	0.999	0.8655	0.0000	17300	20000	-13.4	35.0
o-Terphenyl	Ave	0.6039	0.4936	0.0000	16300	20000	-18.3	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22010.D
Lab Smp Id: ICV-1448440
Inj Date : 22-FEB-2013 14:06
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 14:18 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1383069	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	1075067	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	2141313	40.0000	
$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	528461	16.3458	16.3457
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2766374	40.0000	
* 23 Perylene-d12	264	9.015	9.016	(1.000)	3034368	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	643385	17.8686	17.8685
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	426527	17.7587	17.7586
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	406896	18.6013	18.6013
5 Acenaphthylene	152	4.804	4.804	(0.982)	792099	18.2750	18.2749
7 Acenaphthene	154	4.910	4.910	(1.004)	511893	19.0010	19.0010
9 Fluorene	166	5.233	5.234	(1.070)	612561	17.9790	17.9790
11 Phenanthrene	178	5.863	5.863	(1.003)	1016506	16.4172	16.4171
12 Anthracene	178	5.898	5.898	(1.009)	1040221	17.1782	17.1781
13 Carbazole	167	6.004	6.004	(1.027)	936321	17.3944	17.3943
15 Fluoranthene	202	6.704	6.704	(1.147)	1196804	17.6502	17.6501
16 Pyrene	202	6.874	6.875	(0.882)	1218381	16.3888	16.3887

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	1353867	16.9566	16.9566
19 Chrysene	228	7.815	7.822	(1.002)	1268380	15.8740	15.8740
20 Benzo(b)fluoranthene	252	8.656	8.657	(0.960)	1483299	18.7051	18.7050
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	1339047	16.4606	16.4605
22 Benzo(a)pyrene	252	8.956	8.963	(0.993)	1205817	15.6548	15.6547
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.239	(1.135)	1271997	17.5546	17.5546(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.257	(1.137)	1346652	19.0003	19.0002
26 Benzo(g,h,i)perylene	276	10.597	10.610	(1.175)	1313135	17.3240	17.3240

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22010.D

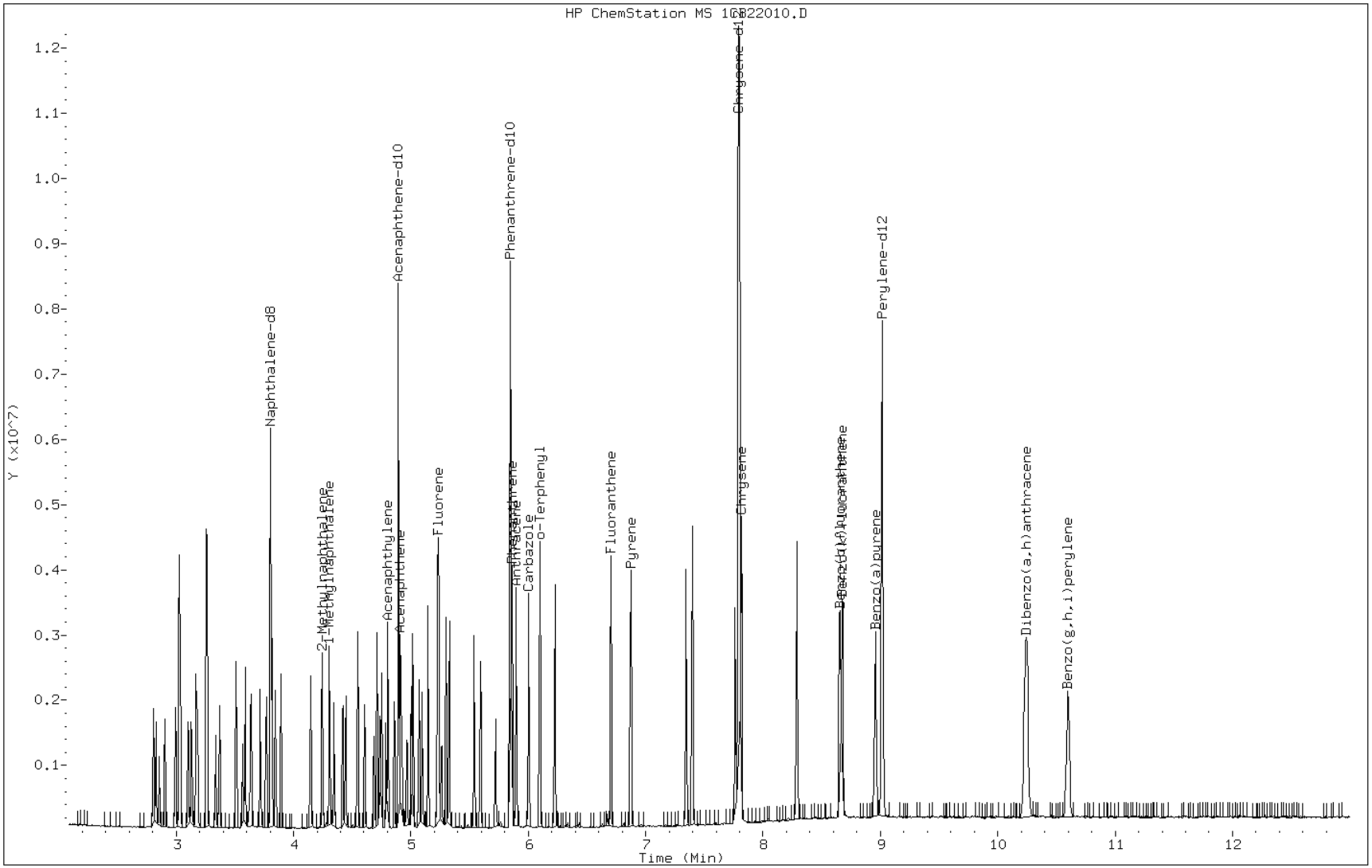
Date: 22-FEB-2013 14:06

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC



Manual Integration Report

Data File: 1CB22010.D
Inj. Date and Time: 22-FEB-2013 14:06
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

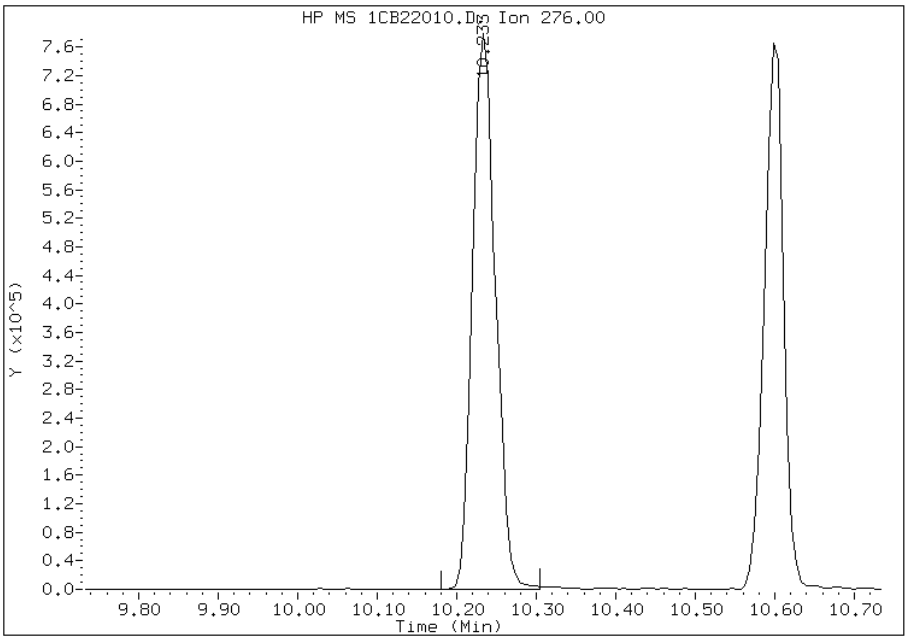
Processing Integration Results

RT: 10.23

Response: 1550656

Amount: 21

Conc: 21



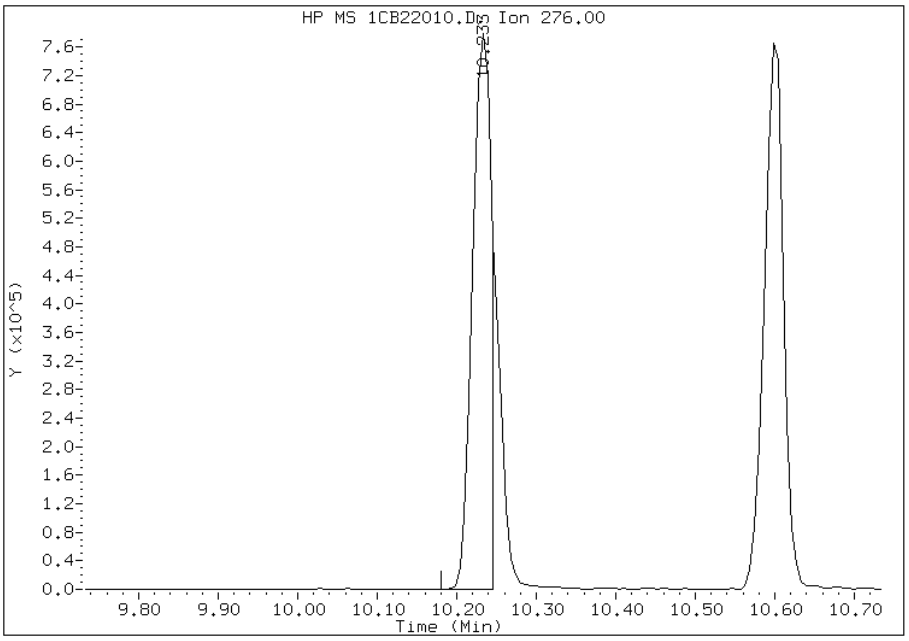
Manual Integration Results

RT: 10.23

Response: 1271997

Amount: 18

Conc: 18



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:21
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Lab Sample ID: CCVIS 660-134903/16 Calibration Date: 02/27/2013 16:15

Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 13:48

Lab File ID: 1CB27015.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.017	0.0000	19500	20000	-2.4	20.0
2-Methylnaphthalene	Ave	0.6946	0.6868	0.0000	19800	20000	-1.1	20.0
1-Methylnaphthalene	Ave	0.6326	0.6420	0.0000	20300	20000	1.5	20.0
Acenaphthylene	Ave	1.613	1.610	0.0000	20000	20000	-0.1	20.0
Acenaphthene	Ave	1.002	0.9486	0.0000	18900	20000	-5.4	20.0
Fluorene	Ave	1.268	1.215	0.0000	19200	20000	-4.2	20.0
Phenanthrene	Ave	1.157	1.131	0.0000	19600	20000	-2.2	20.0
Anthracene	Ave	1.131	1.190	0.0000	21000	20000	5.2	20.0
Carbazole	Ave	1.006	1.010	0.0000	20100	20000	0.5	20.0
Fluoranthene	Ave	1.267	1.304	0.0000	20600	20000	3.0	20.0
Pyrene	Ave	1.075	1.156	0.0000	21500	20000	7.5	20.0
Benzo[a]anthracene	Ave	1.154	1.081	0.0000	18700	20000	-6.4	20.0
Chrysene	Ave	1.155	1.114	0.0000	19300	20000	-3.6	20.0
Benzo[b]fluoranthene	Ave	1.045	1.134	0.0000	21700	20000	8.5	20.0
Benzo[k]fluoranthene	Ave	1.072	1.075	0.0000	20000	20000	0.2	20.0
Benzo[a]pyrene	Ave	1.015	1.024	0.0000	20200	20000	0.9	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.9293	0.0000	19500	20000	-2.7	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8848	0.0000	18900	20000	-5.3	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.8744	0.0000	17500	20000	-12.5	20.0
o-Terphenyl	Ave	0.6039	0.6025	0.0000	20000	20000	-0.2	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\1CB27015.D
Lab Smp Id: CCVIS-1512372
Inj Date : 27-FEB-2013 16:15
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\a-bFASTPAHi-m.m
Meth Date : 27-Feb-2013 16:31 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 13 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)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.792	3.792	(1.000)	1382498	40.0000	
* 6 Acenaphthene-d10	164	4.880	4.880	(1.000)	1062974	40.0000	
* 10 Phenanthrene-d10	188	5.839	5.839	(1.000)	1973786	40.0000	
$ 14 o-Terphenyl	230	6.092	6.092	(1.043)	594645	20.0000	19.9539
* 18 Chrysene-d12	240	7.792	7.792	(1.000)	2448061	40.0000	
* 23 Perylene-d12	264	9.004	9.004	(1.000)	2348833	40.0000	
2 Naphthalene	128	3.804	3.804	(1.003)	702811	20.0000	19.5270
3 2-Methylnaphthalene	142	4.233	4.233	(1.116)	474761	20.0000	19.7751
4 1-Methylnaphthalene	142	4.298	4.298	(1.133)	443795	20.0000	20.2965
5 Acenaphthylene	152	4.798	4.798	(0.983)	855936	20.0000	19.9724
7 Acenaphthene	154	4.904	4.904	(1.005)	504178	20.0000	18.9275
9 Fluorene	166	5.221	5.221	(1.070)	645594	20.0000	19.1641
11 Phenanthrene	178	5.851	5.851	(1.002)	1116354	20.0000	19.5600
12 Anthracene	178	5.886	5.886	(1.008)	1174286	20.0000	21.0380
13 Carbazole	167	5.992	5.992	(1.026)	997024	20.0000	20.0941
15 Fluoranthene	202	6.698	6.698	(1.147)	1287195	20.0000	20.5944
16 Pyrene	202	6.863	6.863	(0.881)	1414691	20.0000	21.5037
17 Benzo(a)anthracene	228	7.780	7.780	(0.998)	1322638	20.0000	18.7194
19 Chrysene	228	7.810	7.810	(1.002)	1363335	20.0000	19.2809
20 Benzo(b)fluoranthene	252	8.645	8.645	(0.960)	1331719	20.0000	21.6949
21 Benzo(k)fluoranthene	252	8.668	8.668	(0.963)	1262060	20.0000	20.0421
22 Benzo(a)pyrene	252	8.945	8.945	(0.993)	1203095	20.0000	20.1781
24 Indeno(1,2,3-cd)pyrene	276	10.215	10.215	(1.135)	1091341	20.0000	19.4572(M)
25 Dibenzo(a,h)anthracene	278	10.233	10.233	(1.137)	1039062	20.0000	18.9392
26 Benzo(g,h,i)perylene	276	10.580	10.580	(1.175)	1026933	20.0000	17.5023

QC Flag Legend

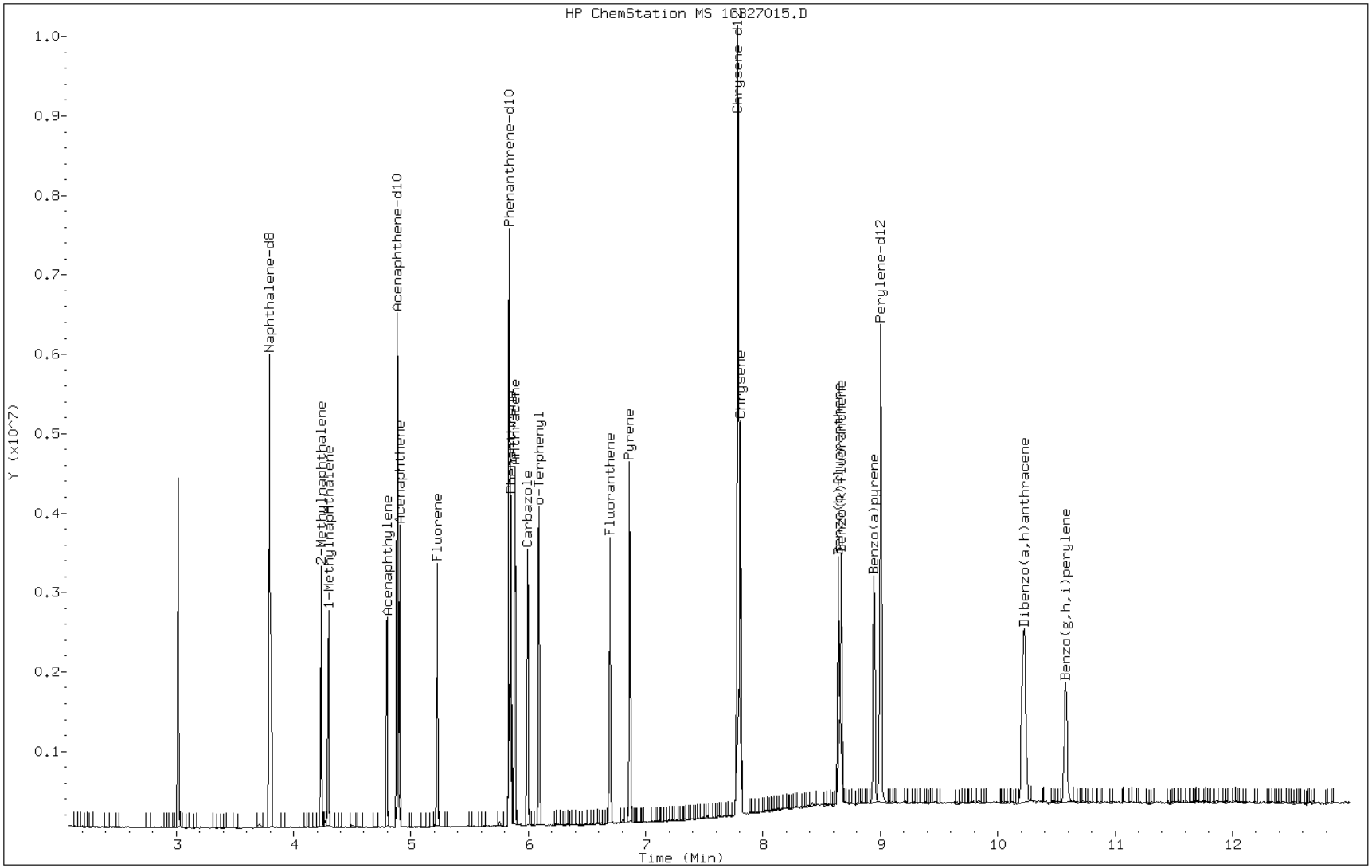
M - Compound response manually integrated.

Data File: 1CB27015.D

Date: 27-FEB-2013 16:15

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1CB27015.D
Inj. Date and Time: 27-FEB-2013 16:15
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/01/2013

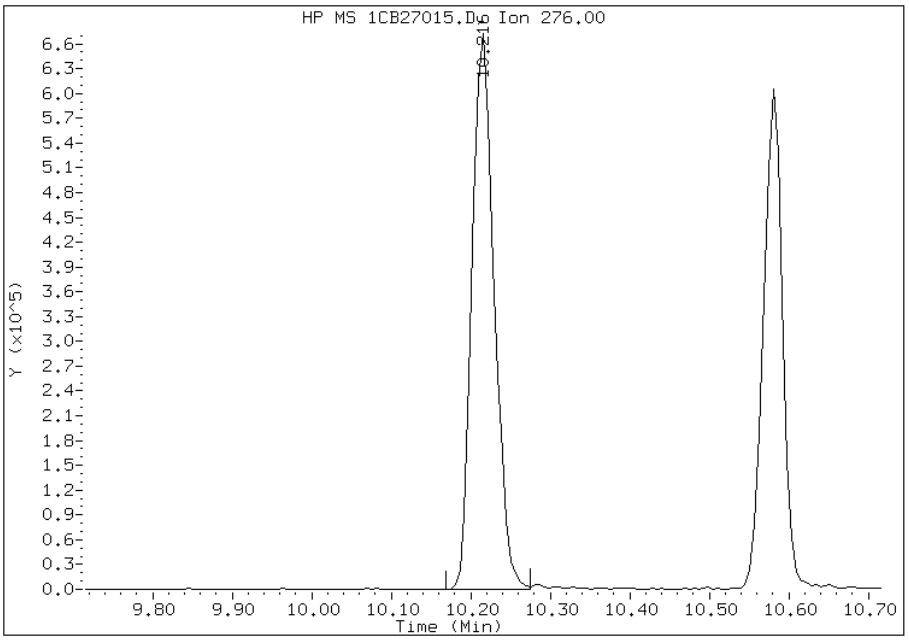
Processing Integration Results

RT: 10.22

Response: 1294991

Amount: 23

Conc: 23



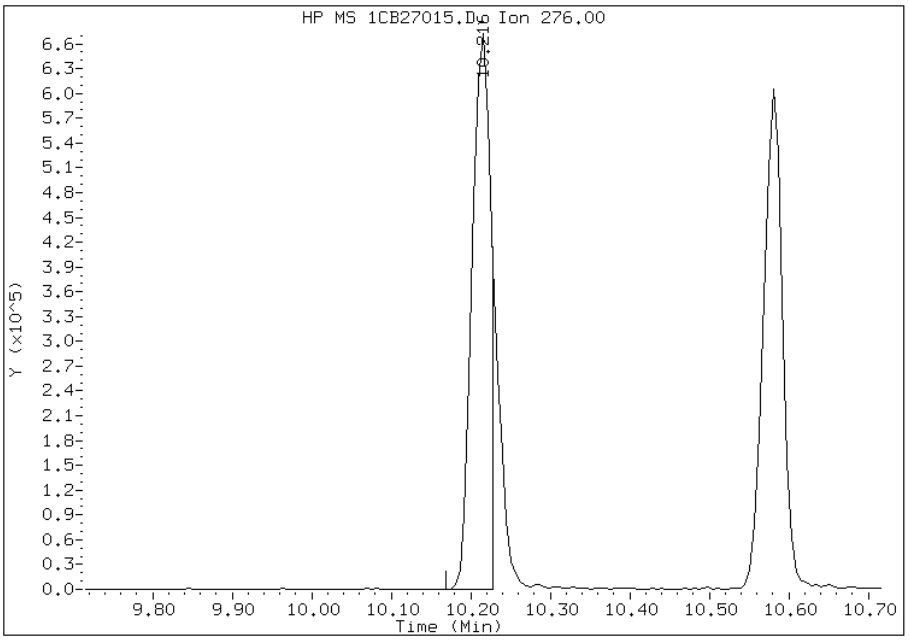
Manual Integration Results

RT: 10.22

Response: 1091341

Amount: 19

Conc: 19



Manually Integrated By: cantins
Modification Date: 27-Feb-2013 16:31
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Lab Sample ID: CCVIS 660-135011/3 Calibration Date: 02/28/2013 11:56

Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 13:48

Lab File ID: 1CB28003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.060	0.0000	20400	20000	1.8	20.0
2-Methylnaphthalene	Ave	0.6946	0.6918	0.0000	19900	20000	-0.4	20.0
1-Methylnaphthalene	Ave	0.6326	0.6517	0.0000	20600	20000	3.0	20.0
Acenaphthylene	Ave	1.613	1.611	0.0000	20000	20000	-0.1	20.0
Acenaphthene	Ave	1.002	0.9623	0.0000	19200	20000	-4.0	20.0
Fluorene	Ave	1.268	1.278	0.0000	20200	20000	0.8	20.0
Phenanthrene	Ave	1.157	1.119	0.0000	19400	20000	-3.2	20.0
Anthracene	Ave	1.131	1.127	0.0000	19900	20000	-0.4	20.0
Carbazole	Ave	1.006	0.9806	0.0000	19500	20000	-2.5	20.0
Fluoranthene	Ave	1.267	1.273	0.0000	20100	20000	0.5	20.0
Pyrene	Ave	1.075	1.083	0.0000	20100	20000	0.7	20.0
Benzo[a]anthracene	Ave	1.154	1.056	0.0000	18300	20000	-8.6	20.0
Chrysene	Ave	1.155	1.084	0.0000	18800	20000	-6.2	20.0
Benzo[b]fluoranthene	Ave	1.045	1.005	0.0000	19200	20000	-3.9	20.0
Benzo[k]fluoranthene	Ave	1.072	1.165	0.0000	21700	20000	8.6	20.0
Benzo[a]pyrene	Ave	1.015	1.022	0.0000	20100	20000	0.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.9721	0.0000	20400	20000	1.8	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8950	0.0000	19200	20000	-4.2	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9245	0.0000	18500	20000	-7.5	20.0
o-Terphenyl	Ave	0.6039	0.6010	0.0000	19900	20000	-0.5	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022813.b\1CB28003.D
Lab Smp Id: CCVIS-1512372
Inj Date : 28-FEB-2013 11:56
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022813.b\a-bFASTPAHi-m.m
Meth Date : 28-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.786	3.786	(1.000)	1258641	40.0000	
* 6 Acenaphthene-d10	164	4.874	4.874	(1.000)	972943	40.0000	(H)
* 10 Phenanthrene-d10	188	5.827	5.827	(1.000)	1874302	40.0000	(H)
$ 14 o-Terphenyl	230	6.080	6.080	(1.043)	563241	20.0000	19.9033(H)
* 18 Chrysene-d12	240	7.774	7.774	(1.000)	2360296	40.0000	
* 23 Perylene-d12	264	8.980	8.980	(1.000)	2373927	40.0000	(H)
2 Naphthalene	128	3.798	3.798	(1.003)	666914	20.0000	20.3531
3 2-Methylnaphthalene	142	4.227	4.227	(1.116)	435339	20.0000	19.9174
4 1-Methylnaphthalene	142	4.286	4.286	(1.132)	410136	20.0000	20.6029
5 Acenaphthylene	152	4.786	4.786	(0.982)	783617	20.0000	19.9769(H)
7 Acenaphthene	154	4.892	4.892	(1.004)	468147	20.0000	19.2011
9 Fluorene	166	5.216	5.216	(1.070)	621748	20.0000	20.1640(H)
11 Phenanthrene	178	5.845	5.845	(1.003)	1048749	20.0000	19.3508(H)
12 Anthracene	178	5.874	5.874	(1.008)	1055864	20.0000	19.9205(H)
13 Carbazole	167	5.986	5.986	(1.027)	918944	20.0000	19.5035(H)
15 Fluoranthene	202	6.680	6.680	(1.146)	1193015	20.0000	20.1007(H)
16 Pyrene	202	6.851	6.851	(0.881)	1277988	20.0000	20.1481
17 Benzo(a)anthracene	228	7.762	7.762	(0.998)	1245810	20.0000	18.2877
19 Chrysene	228	7.792	7.792	(1.002)	1279100	20.0000	18.7623
20 Benzo(b)fluoranthene	252	8.621	8.621	(0.960)	1192795	20.0000	19.2263(H)
21 Benzo(k)fluoranthene	252	8.651	8.651	(0.963)	1382832	20.0000	21.7279(H)
22 Benzo(a)pyrene	252	8.927	8.927	(0.994)	1212551	20.0000	20.1217(H)
24 Indeno(1,2,3-cd)pyrene	276	10.186	10.186	(1.134)	1153858	20.0000	20.3544(MH)
25 Dibenzo(a,h)anthracene	278	10.203	10.203	(1.136)	1062367	20.0000	19.1593(H)
26 Benzo(g,h,i)perylene	276	10.545	10.545	(1.174)	1097354	20.0000	18.5049(H)

QC Flag Legend

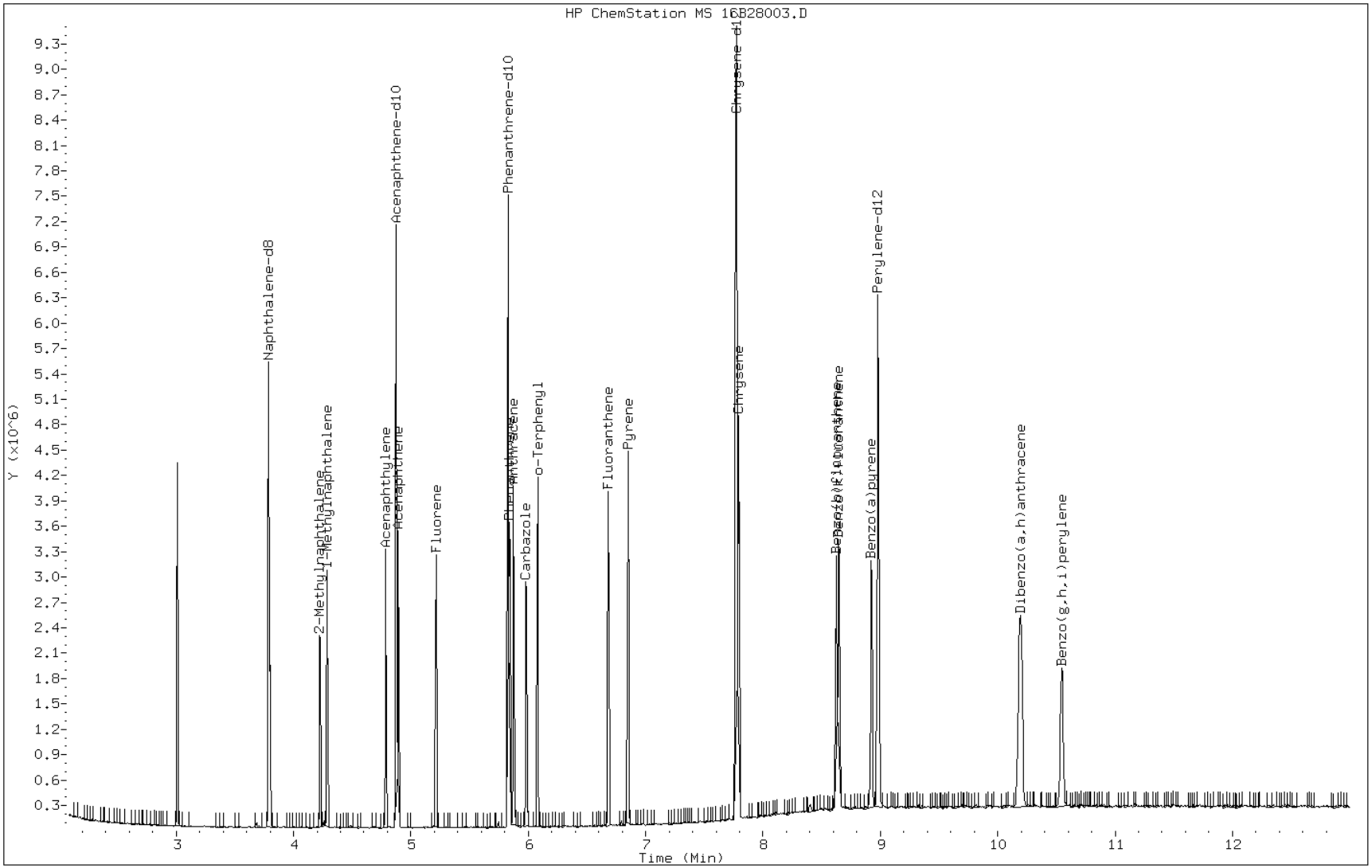
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CB28003.D

Date: 28-FEB-2013 11:56

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1CB28003.D
Inj. Date and Time: 28-FEB-2013 11:56
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/04/2013

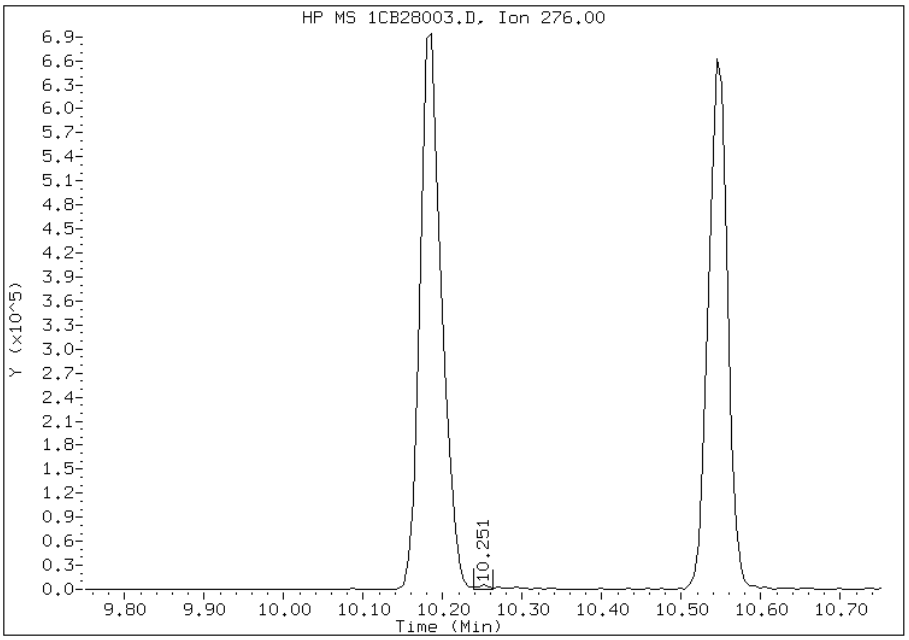
Processing Integration Results

RT: 10.25

Response: 5778

Amount: 0

Conc: 0



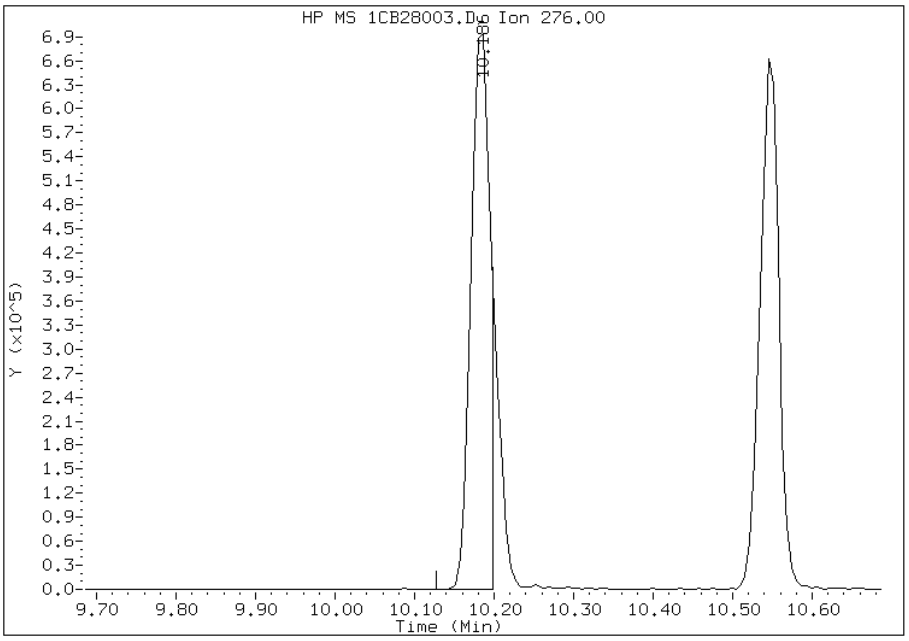
Manual Integration Results

RT: 10.19

Response: 1153858

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 28-Feb-2013 12:17
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Lab Sample ID: ICV 660-134781/10 Calibration Date: 02/22/2013 14:51

Instrument ID: BSMD5973 Calib Start Date: 02/22/2013 12:13

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 14:28

Lab File ID: 1DB22010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.070	0.9509	0.0000	17800	20000	-11.1	35.0
2-Methylnaphthalene	Ave	0.6816	0.6138	0.0000	18000	20000	-9.9	35.0
1-Methylnaphthalene	Ave	0.6383	0.5884	0.0000	18400	20000	-7.8	35.0
Acenaphthylene	Ave	1.764	1.543	0.0000	17500	20000	-12.5	35.0
Acenaphthene	Ave	1.075	0.9046	0.0000	16800	20000	-15.9	35.0
Fluorene	Ave	1.256	1.107	0.0000	17600	20000	-11.9	35.0
Phenanthrene	Ave	1.135	0.9678	0.0000	17000	20000	-14.8	35.0
Anthracene	Ave	1.136	0.9920	0.0000	17500	20000	-12.7	35.0
Carbazole	Ave	1.016	0.8513	0.0000	16800	20000	-16.2	35.0
Fluoranthene	Ave	1.185	1.044	0.0000	17600	20000	-11.9	35.0
Pyrene	Ave	1.241	1.040	0.0000	16800	20000	-16.1	35.0
Benzo[a]anthracene	LinF	1.184	1.006	0.0000	18400	20000	-8.1	35.0
Chrysene	Ave	1.131	0.9327	0.0000	16500	20000	-17.5	35.0
Benzo[b]fluoranthene	Ave	1.030	0.9311	0.0000	18100	20000	-9.6	35.0
Benzo[k]fluoranthene	Ave	1.078	0.9609	0.0000	17800	20000	-10.9	35.0
Benzo[a]pyrene	Ave	1.019	0.8258	0.0000	16200	20000	-19.0	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.087	0.9629	0.0000	17700	20000	-11.4	35.0
Dibenz(a,h)anthracene	Ave	1.004	0.9897	0.0000	19700	20000	-1.4	35.0
Benzo[g,h,i]perylene	Ave	1.037	0.9265	0.0000	17900	20000	-10.6	35.0
o-Terphenyl	Ave	0.6186	0.5223	0.0000	16900	20000	-15.6	35.0

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22010.D
Lab Smp Id: ICV-1448440
Inj Date : 22-FEB-2013 14:51
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
Meth Date : 22-Feb-2013 15:03 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Naphthalene-d8	136	6.186	6.188	(1.000)	3227519	40.0000	
* 6 Acenaphthene-d10	164	7.861	7.856	(1.000)	1973397	40.0000	
* 9 Phenanthrene-d10	188	9.118	9.114	(1.000)	3226971	40.0000	
$ 13 o-Terphenyl	230	9.424	9.431	(1.034)	842705	16.8872	17
* 17 Chrysene-d12	240	11.463	11.464	(1.000)	3262056	40.0000	
* 22 Perylene-d12	264	13.343	13.344	(1.000)	3389756	40.0000	
2 Naphthalene	128	6.204	6.205	(1.003)	1534495	17.7730	18
3 2-Methylnaphthalene	142	6.903	6.910	(1.116)	990529	18.0102	18
4 1-Methylnaphthalene	142	6.997	6.999	(1.131)	949525	18.4366	18
5 Acenaphthylene	152	7.732	7.733	(0.984)	1522763	17.5026	18
7 Acenaphthene	154	7.884	7.886	(1.003)	892518	16.8249	17
8 Fluorene	166	8.325	8.326	(1.059)	1091870	17.6166	18
10 Phenanthrene	178	9.136	9.137	(1.002)	1561459	17.0459	17
11 Anthracene	178	9.177	9.184	(1.006)	1600546	17.4635	17
12 Carbazole	167	9.324	9.313	(1.023)	1373599	16.7651	17(M)
14 Fluoranthene	202	10.117	10.124	(1.110)	1683952	17.6156	18
15 Pyrene	202	10.305	10.312	(0.899)	1697011	16.7712	17

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
16 Benzo(a)anthracene	228	11.439	11.446	(0.998)	1641298	18.3780	18
18 Chrysene	228	11.486	11.499	(1.002)	1521333	16.5002	16
19 Benzo(b)fluoranthene	252	12.779	12.792	(0.958)	1578092	18.0867	18
20 Benzo(k)fluoranthene	252	12.820	12.839	(0.961)	1628670	17.8278	18
21 Benzo(a)pyrene	252	13.243	13.262	(0.993)	1399541	16.2092	16
23 Indeno(1,2,3-cd)pyrene	276	14.964	14.995	(1.122)	1631960	17.7111	18(H)
24 Dibenzo(a,h)anthracene	278	15.000	15.030	(1.124)	1677351	19.7111	20
25 Benzo(g,h,i)perylene	276	15.428	15.465	(1.156)	1570269	17.8738	18

QC Flag Legend

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

Data File: 1DB22010.D

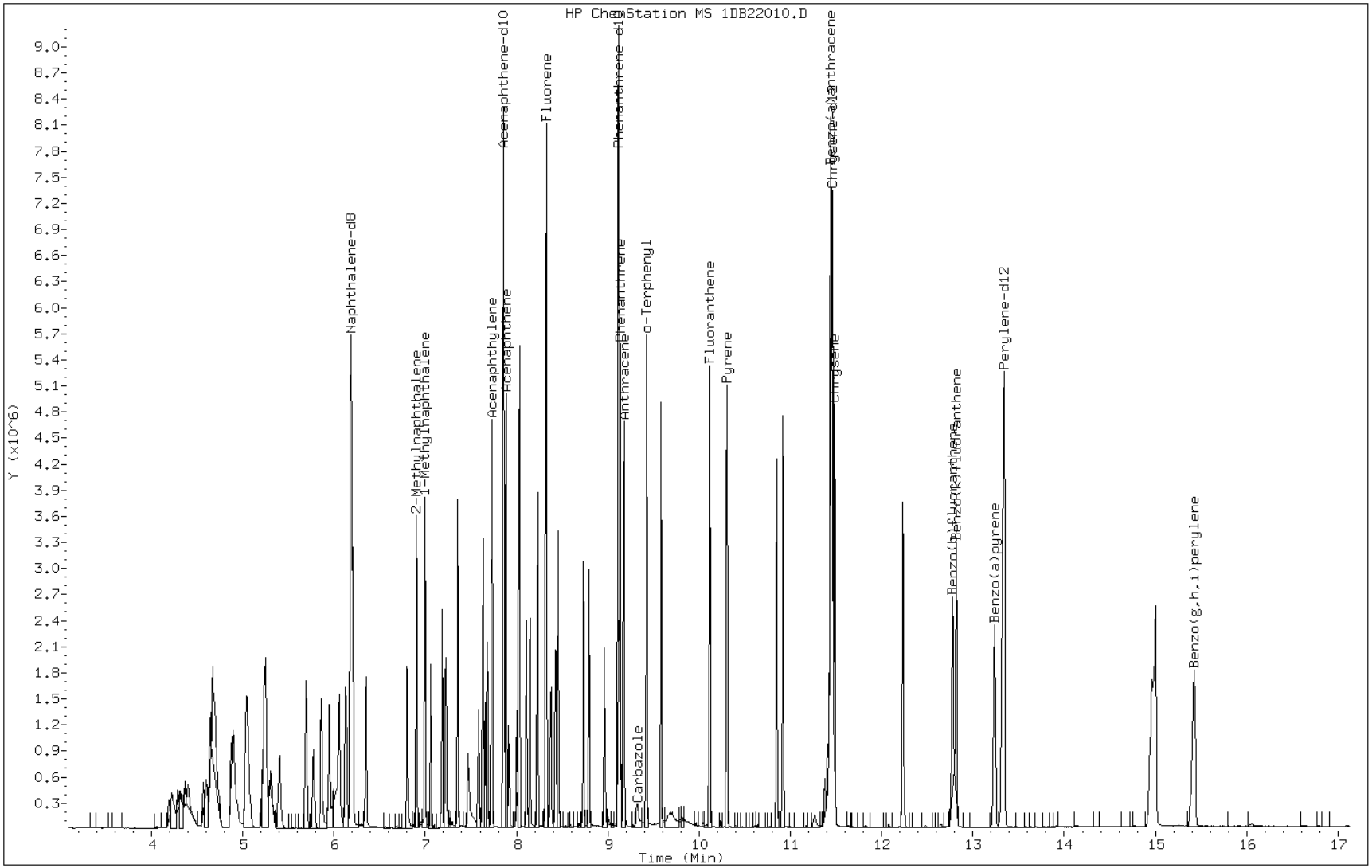
Date: 22-FEB-2013 14:51

Client ID:

Instrument: BSMSD.i

Sample Info: ICV-1448440

Operator: SCC



Manual Integration Report

Data File: 1DB22010.D
Inj. Date and Time: 22-FEB-2013 14:51
Instrument ID: BSMSD.i
Client ID:
Compound: 12 Carbazole
CAS #: 86-74-8
Report Date: 02/22/2013

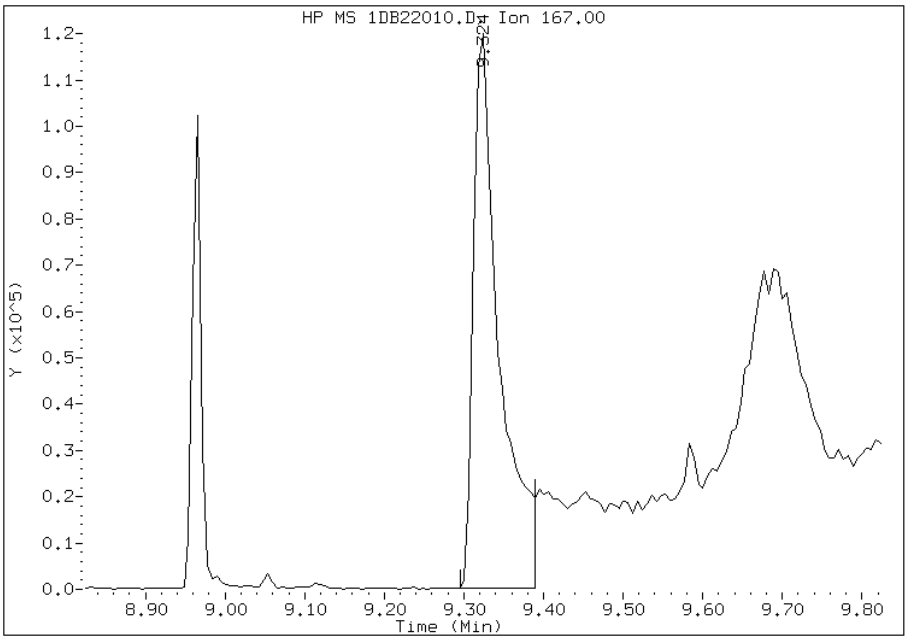
Processing Integration Results

RT: 9.32

Response: 270307

Amount: 3

Conc: 3



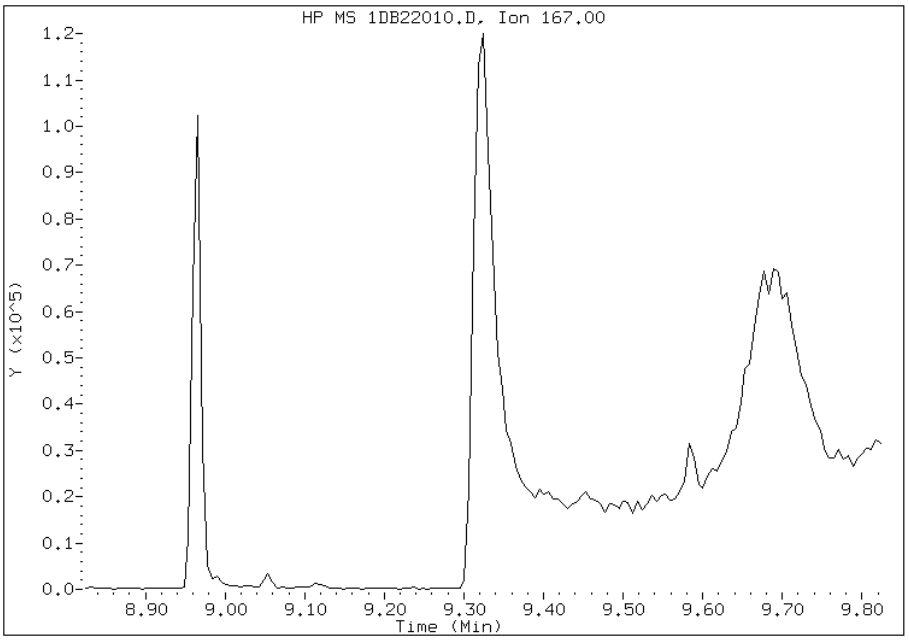
Manual Integration Results

RT: 9.32

Response: 1373599

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 15:27
Manual Integration Reason: Baseline Event

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Lab Sample ID: CCVIS 660-134905/6 Calibration Date: 02/27/2013 13:17

Instrument ID: BSMD5973 Calib Start Date: 02/22/2013 12:13

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 14:28

Lab File ID: 1DB27006.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.070	1.052	0.0000	19700	20000	-1.6	20.0
2-Methylnaphthalene	Ave	0.6816	0.6646	0.0000	19500	20000	-2.5	20.0
1-Methylnaphthalene	Ave	0.6383	0.6295	0.0000	19700	20000	-1.4	20.0
Acenaphthylene	Ave	1.764	1.815	0.0000	20600	20000	2.9	20.0
Acenaphthene	Ave	1.075	1.076	0.0000	20000	20000	0.0	20.0
Fluorene	Ave	1.256	1.251	0.0000	19900	20000	-0.4	20.0
Phenanthrene	Ave	1.135	1.100	0.0000	19400	20000	-3.1	20.0
Anthracene	Ave	1.136	1.131	0.0000	19900	20000	-0.4	20.0
Carbazole	Ave	1.016	0.9927	0.0000	19500	20000	-2.3	20.0
Fluoranthene	Ave	1.185	1.153	0.0000	19500	20000	-2.7	20.0
Pyrene	Ave	1.241	1.280	0.0000	20600	20000	3.2	20.0
Benzo[a]anthracene	LinF	1.184	1.098	0.0000	20100	20000	0.3	20.0
Chrysene	Ave	1.131	1.100	0.0000	19500	20000	-2.7	20.0
Benzo[b]fluoranthene	Ave	1.030	1.036	0.0000	20100	20000	0.6	20.0
Benzo[k]fluoranthene	Ave	1.078	1.066	0.0000	19800	20000	-1.2	20.0
Benzo[a]pyrene	Ave	1.019	1.030	0.0000	20200	20000	1.1	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.087	1.089	0.0000	20000	20000	0.1	20.0
Dibenz(a,h)anthracene	Ave	1.004	1.005	0.0000	20000	20000	0.1	20.0
Benzo[g,h,i]perylene	Ave	1.037	1.029	0.0000	19900	20000	-0.7	20.0
o-Terphenyl	Ave	0.6186	0.6029	0.0000	19500	20000	-2.5	20.0

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022713.b\1DB27006.D
Lab Smp Id: CCVIS-1512372
Inj Date : 27-FEB-2013 13:17
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCVIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022713.b\dFASTPAHi.m
Meth Date : 27-Feb-2013 14:11 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.174	6.174	(1.000)	2030574	40.0000	
* 6 Acenaphthene-d10	164	7.848	7.848	(1.000)	1170882	40.0000	
* 9 Phenanthrene-d10	188	9.111	9.111	(1.000)	1876359	40.0000	
$ 13 o-Terphenyl	230	9.417	9.417	(1.034)	565648	20.0000	19
* 17 Chrysene-d12	240	11.456	11.456	(1.000)	1785006	40.0000	
* 22 Perylene-d12	264	13.330	13.330	(1.000)	1861683	40.0000	
2 Naphthalene	128	6.197	6.197	(1.004)	1068581	20.0000	20
3 2-Methylnaphthalene	142	6.896	6.896	(1.117)	674747	20.0000	20
4 1-Methylnaphthalene	142	6.990	6.990	(1.132)	639099	20.0000	20
5 Acenaphthylene	152	7.719	7.719	(0.984)	1062355	20.0000	20
7 Acenaphthene	154	7.878	7.878	(1.004)	629789	20.0000	20
8 Fluorene	166	8.318	8.318	(1.060)	732295	20.0000	20
10 Phenanthrene	178	9.129	9.129	(1.002)	1031946	20.0000	19
11 Anthracene	178	9.170	9.170	(1.006)	1061439	20.0000	20
12 Carbazole	167	9.305	9.305	(1.021)	931334	20.0000	20
14 Fluoranthene	202	10.116	10.116	(1.110)	1081886	20.0000	19
15 Pyrene	202	10.304	10.304	(0.899)	1142612	20.0000	21
16 Benzo(a)anthracene	228	11.438	11.438	(0.998)	980316	20.0000	20
18 Chrysene	228	11.479	11.479	(1.002)	982000	20.0000	19
19 Benzo(b)fluoranthene	252	12.778	12.778	(0.959)	964339	20.0000	20
20 Benzo(k)fluoranthene	252	12.819	12.819	(0.962)	991913	20.0000	20
21 Benzo(a)pyrene	252	13.236	13.236	(0.993)	958673	20.0000	20
23 Indeno(1,2,3-cd)pyrene	276	14.963	14.963	(1.123)	1013582	20.0000	20(M)
24 Dibenzo(a,h)anthracene	278	14.999	14.999	(1.125)	935692	20.0000	20
25 Benzo(g,h,i)perylene	276	15.422	15.422	(1.157)	957971	20.0000	20

QC Flag Legend

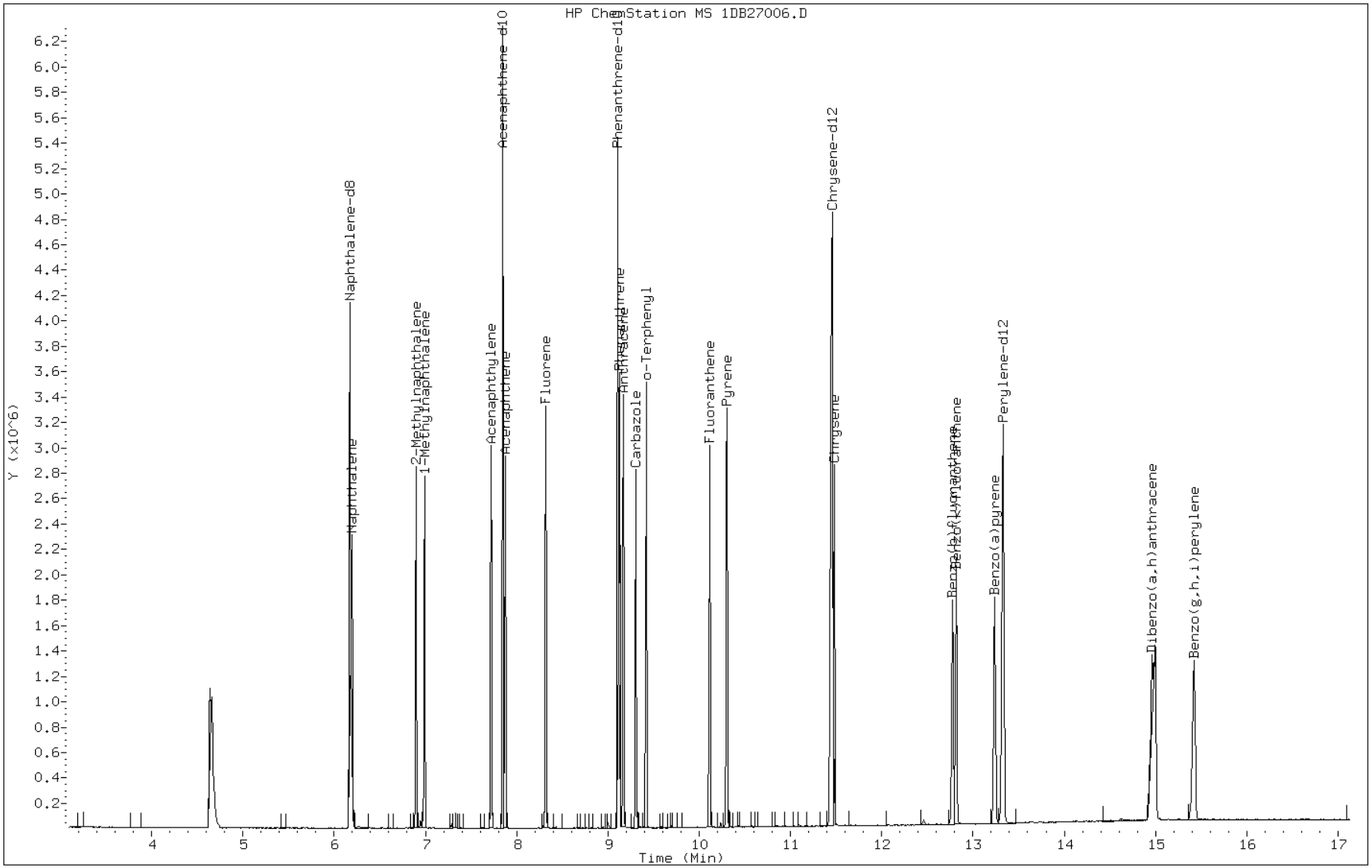
M - Compound response manually integrated.

Data File: 1DB27006.D

Date: 27-FEB-2013 13:17

Client ID: Instrument: BSMSD.i

Sample Info: CCVIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1DB27006.D
Inj. Date and Time: 27-FEB-2013 13:17
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/27/2013

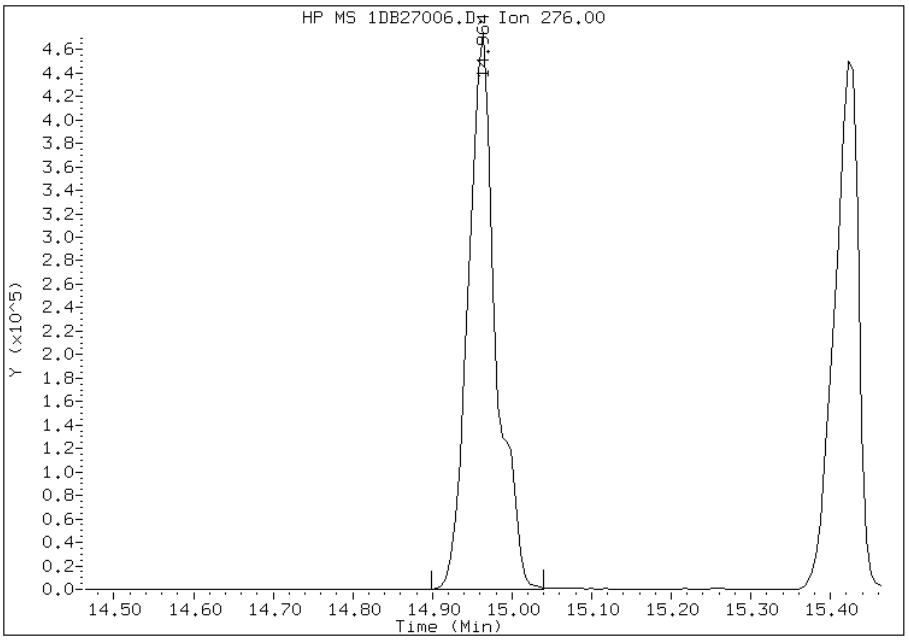
Processing Integration Results

RT: 14.96

Response: 1144406

Amount: 23

Conc: 23



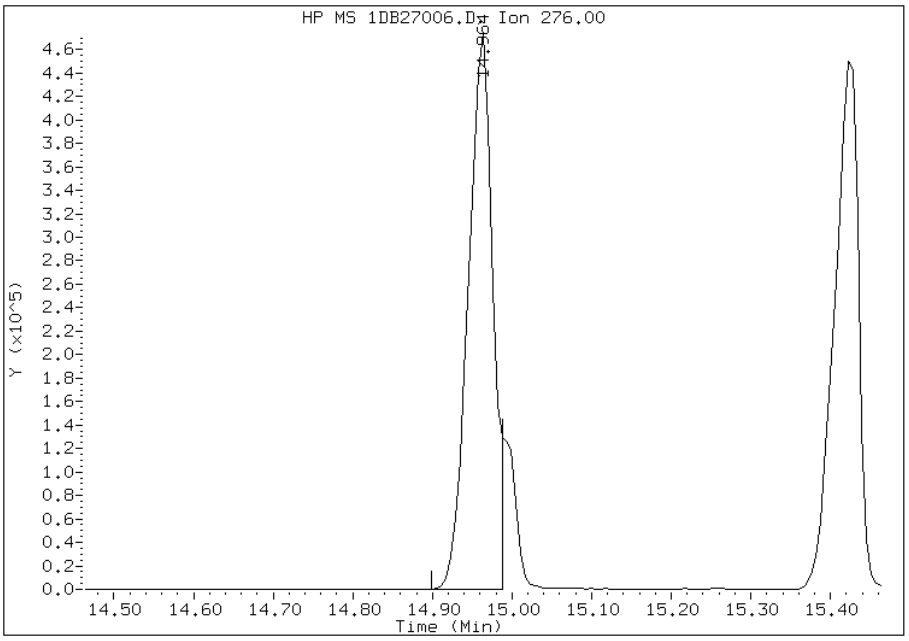
Manual Integration Results

RT: 14.96

Response: 1013582

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 27-Feb-2013 14:11
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 22-FEB-2013 11:41
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

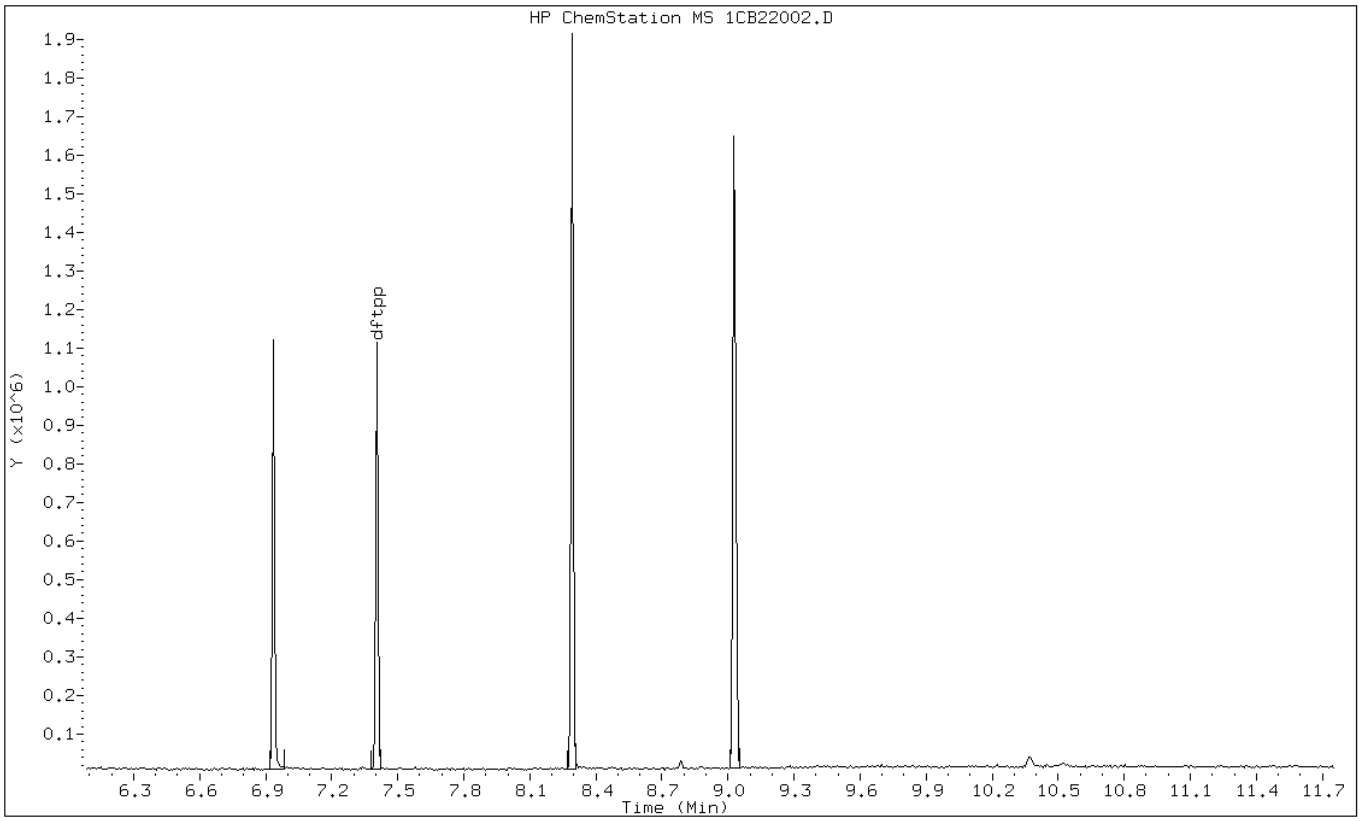
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.404	7.469	-0.065	198	73440			50.00- 0.00	100.00
7.404	7.469	-0.065	51	31096			10.00- 80.00	42.34
7.404	7.469	-0.065	68	471			0.00- 2.00	1.08
7.404	7.469	-0.065	69	43512			0.00- 0.00	59.25
7.404	7.469	-0.065	70	192			0.00- 2.00	0.44
7.404	7.469	-0.065	127	39368			10.00- 80.00	53.61
7.404	7.469	-0.065	197	733			0.00- 2.00	1.00
7.404	7.469	-0.065	442	38240			50.00- 0.00	52.07
7.404	7.469	-0.065	199	6330			5.00- 9.00	8.62
7.404	7.469	-0.065	275	14104			10.00- 60.00	19.20
7.404	7.469	-0.065	365	1462			1.00- 0.00	1.99
7.404	7.469	-0.065	441	5496			0.01- 99.99	86.06
7.404	7.469	-0.065	443	6386			15.00- 24.00	16.70

Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



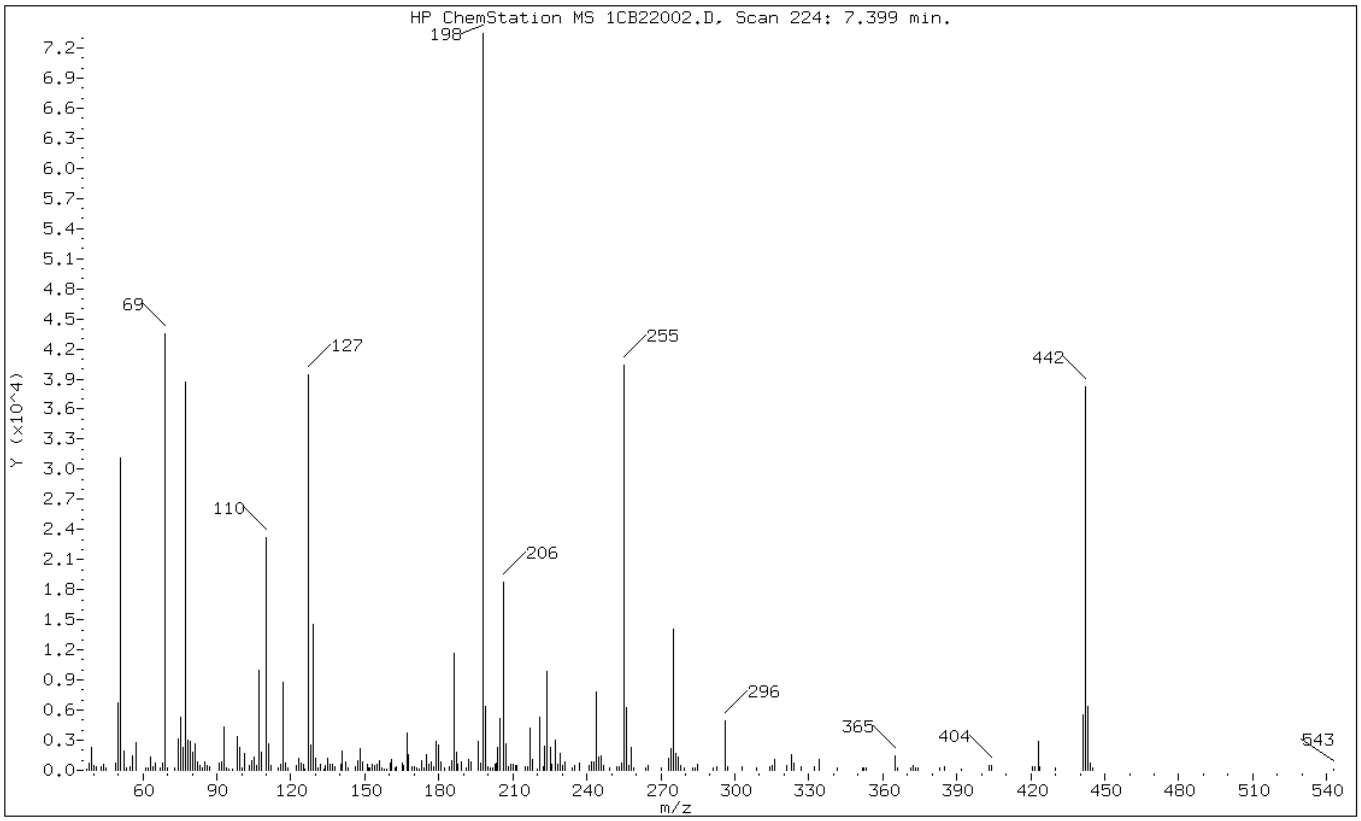
Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	42.34
68	Less than 2.00% of mass 69	0.64 (1.08)
69	Mass 69 relative abundance	59.25
70	Less than 2.00% of mass 69	0.26 (0.44)
127	10.00 - 80.00% of mass 198	53.61
197	Less than 2.00% of mass 198	1.00
442	Greater than 50.00% of mass 198	52.07
199	5.00 - 9.00% of mass 198	8.62
275	10.00 - 60.00% of mass 198	19.20
365	Greater than 1.00% of mass 198	1.99
441	Present, but less than mass 443	7.48
443	15.00 - 24.00% of mass 442	8.70 (16.70)

Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213_pahIC.b\1CB22002.D
Spectrum: HP ChemStation MS 1CB22002.D, Scan 224: 7.399 min.
Location of Maximum: 198.00
Number of points: 238

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.20	176	115.10	214	181.00	901	256.00	6303
38.10	755	116.00	605	182.10	220	256.90	429
39.10	2229	117.00	8730	184.00	307	257.90	2280
40.10	531	117.90	749	185.10	1015	258.90	258
41.10	318	119.00	225	186.10	11683	263.90	210
42.90	335	122.00	424	187.10	1756	265.00	509
44.00	648	123.00	1147	187.90	552	270.00	205
45.20	211	124.10	749	188.90	869	273.00	1169
49.10	738	125.10	635	191.00	237	274.00	2122
50.10	6757	125.80	170	192.00	1104	275.00	14104
51.10	31096	127.10	39368	193.10	865	275.90	1652
52.10	1930	128.10	2564	196.00	2872	277.00	1264
53.20	277	129.00	14531	196.90	733	277.90	505
55.00	369	129.80	1177	198.00	73440	279.70	194
56.00	1418	131.00	276	199.00	6330	283.00	190
57.00	2762	132.10	570	199.90	373	283.80	183
61.00	226	133.20	171	201.00	298	285.00	556
62.00	292	134.10	490	201.60	269	291.10	200
63.20	1348	135.10	1144	202.90	583	292.90	373
64.00	333	136.10	602	203.30	687	296.00	4941
65.10	737	137.00	557	204.00	2340	297.00	339
66.90	287	137.80	323	205.00	5123	302.90	397
67.80	471	140.10	644	206.10	18696	308.90	282
68.20	663	141.00	1972	207.10	2615	314.00	365
69.10	43512	142.00	851	208.00	418	315.10	502
70.00	192	143.10	211	209.00	555	316.10	1036
73.10	186	146.10	337	210.30	624	321.00	472
74.10	3155	147.00	919	210.90	494	323.00	1518
75.10	5232	148.00	2159	211.60	459	324.00	680
76.10	2236	149.00	790	214.90	324	327.10	397
77.10	38720	151.00	613	215.80	325	332.10	308
78.10	3056	151.70	298	217.00	4236	334.20	1026
79.10	2911	152.20	189	218.00	1088	341.30	184
80.00	1751	153.00	575	220.00	170	351.80	221
81.10	2627	154.10	436	221.10	5285	352.40	258
82.00	869	155.10	587	222.20	336	353.20	226
83.10	502	156.00	912	222.80	2398	364.90	1462
83.90	288	156.80	189	224.00	9837	365.90	266
85.00	785	158.00	151	225.10	2230	371.10	209
86.10	533	158.90	165	226.00	626	372.10	462

87.10	324	160.10	719	227.00	3030	373.10	210
91.10	726	160.90	1140	228.00	610	374.50	233
91.90	792	162.10	280	229.00	1664	383.20	274
93.10	4314	162.70	420	230.00	453	384.80	322
94.00	297	165.00	758	231.00	869	391.80	159
95.00	178	165.90	506	234.00	203	402.90	522
96.10	155	167.00	3698	234.90	491	404.10	524
98.10	3307	167.80	1598	236.90	687	420.90	334
99.10	2331	169.10	332	240.80	432	421.80	348
100.00	203	170.20	321	242.00	793	423.00	2839
101.00	1667	171.10	292	242.90	893	423.80	381
103.00	538	171.80	156	244.00	7817	430.10	181
104.10	935	173.20	904	245.00	1351	441.00	5496
105.10	1280	174.10	287	246.00	1390	442.00	38240
106.20	492	175.00	1609	246.80	435	443.10	6386
107.00	9992	176.00	544	249.00	291	444.00	706
108.00	1788	177.10	810	252.10	410	444.90	181
110.00	23216	177.80	349	252.90	317	542.80	156
111.10	2593	179.10	2922	253.90	662		
112.10	540	180.00	2572	255.00	40344		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\1CB27002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 27-FEB-2013 11:24
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\c-dftpp198.m
Meth Date : 10-Feb-2013 14:42 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

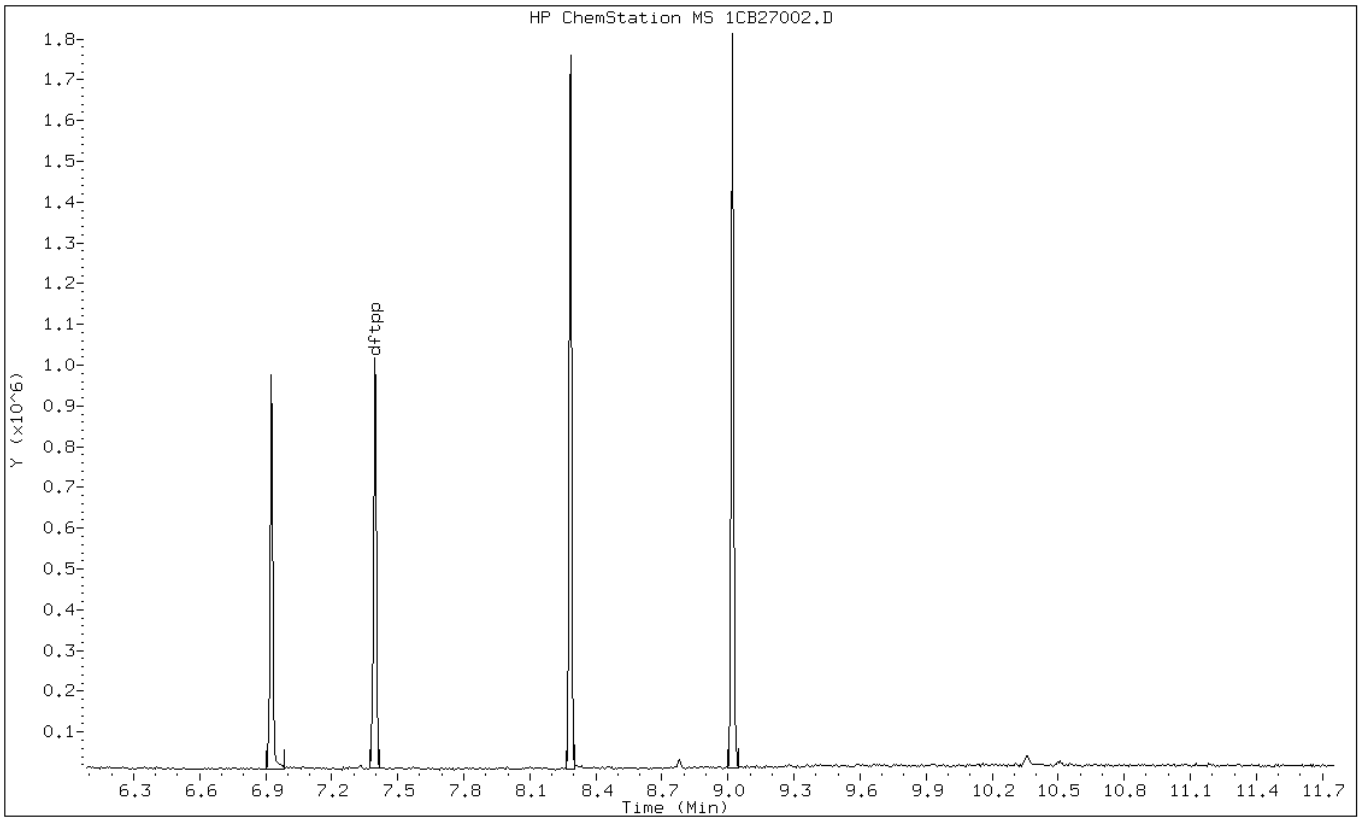
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.392	7.469	-0.077	198	120752			50.00- 0.00	100.00
7.392	7.469	-0.077	51	43304			10.00- 80.00	35.86
7.392	7.469	-0.077	68	1069			0.00- 2.00	1.85
7.392	7.469	-0.077	69	57872			0.00- 0.00	47.93
7.392	7.469	-0.077	70	497			0.00- 2.00	0.86
7.392	7.469	-0.077	127	52248			10.00- 80.00	43.27
7.392	7.469	-0.077	197	0	0.0	0.0	0.00- 2.00	0.00
7.392	7.469	-0.077	442	73136			50.00- 0.00	60.57
7.392	7.469	-0.077	199	9007			5.00- 9.00	7.46
7.392	7.469	-0.077	275	23680			10.00- 60.00	19.61
7.392	7.469	-0.077	365	3692			1.00- 0.00	3.06
7.392	7.469	-0.077	441	11195			0.01- 99.99	69.67
7.392	7.469	-0.077	443	16068			15.00- 24.00	21.97

Data File: 1CB27002.D

Date: 27-FEB-2013 11:24

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



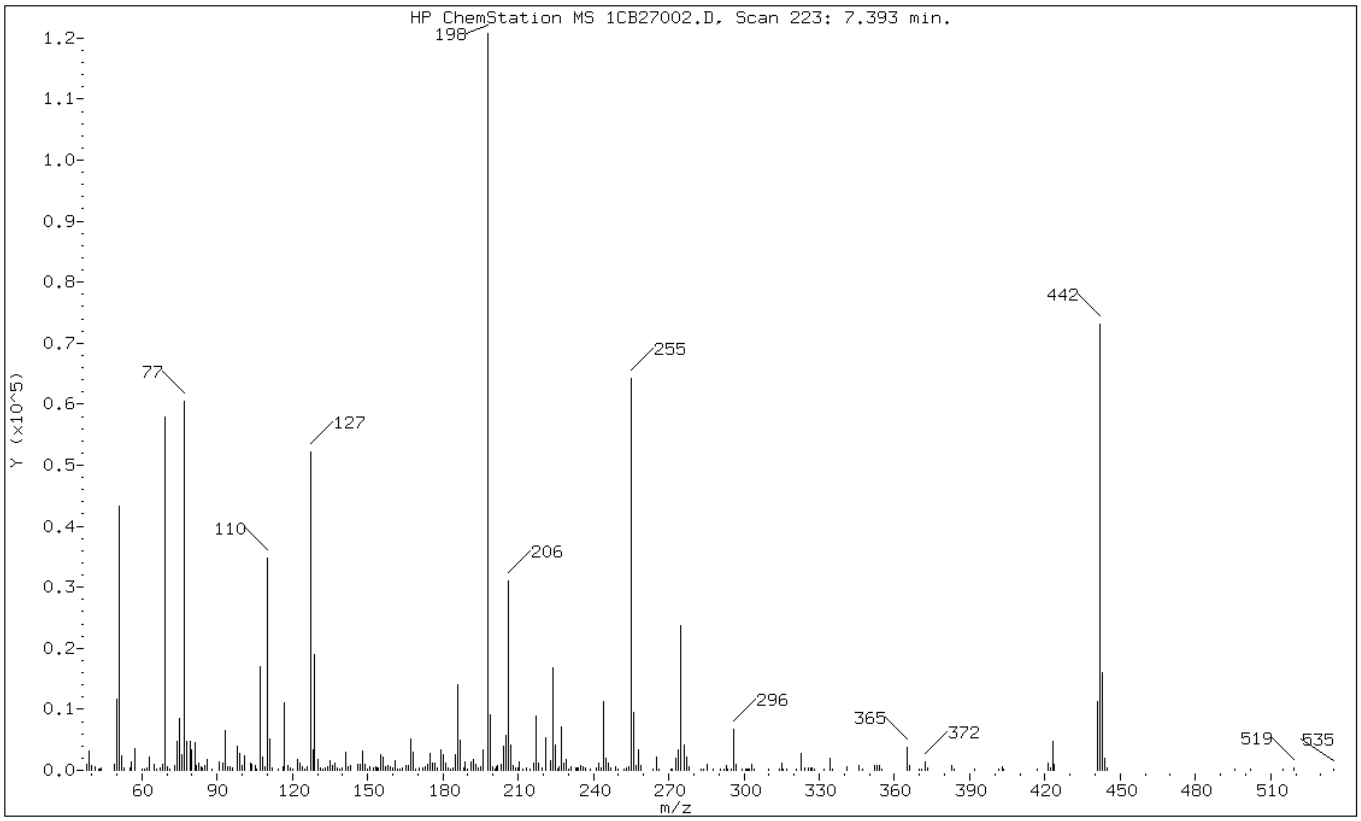
Data File: 1CB27002.D

Date: 27-FEB-2013 11:24

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	35.86
68	Less than 2.00% of mass 69	0.89 (1.85)
69	Mass 69 relative abundance	47.93
70	Less than 2.00% of mass 69	0.41 (0.86)
127	10.00 - 80.00% of mass 198	43.27
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	60.57
199	5.00 - 9.00% of mass 198	7.46
275	10.00 - 60.00% of mass 198	19.61
365	Greater than 1.00% of mass 198	3.06
441	Present, but less than mass 443	9.27
443	15.00 - 24.00% of mass 442	13.31 (21.97)

Data File: 1CB27002.D

Date: 27-FEB-2013 11:24

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\1CB27002.D
Spectrum: HP ChemStation MS 1CB27002.D, Scan 223: 7.393 min.
Location of Maximum: 198.00
Number of points: 277

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	892	124.10	625	196.00	3334	284.00	231
39.10	3116	125.00	210	198.00	120752	285.20	928
40.10	842	126.10	630	199.00	9007	287.70	164
41.30	497	127.10	52248	200.00	656	290.40	284
42.90	165	128.10	3283	200.70	222	292.00	182
43.20	181	129.00	18976	201.20	682	293.00	864
44.00	486	130.00	1709	201.70	824	293.70	224
49.00	1066	131.20	419	203.10	935	294.90	170
50.10	11663	132.10	156	204.00	3862	296.00	6795
51.10	43304	132.90	479	205.10	5661	297.10	1016
52.00	2363	134.10	657	206.10	30992	299.30	166
53.10	348	135.00	1550	207.00	4235	300.60	252
55.10	424	136.00	883	208.10	805	301.10	162
56.00	1355	137.00	1121	209.10	422	301.70	222
57.00	3539	138.10	435	209.90	345	302.00	236
60.30	257	139.00	288	210.60	1394	303.10	995
61.00	247	140.00	405	211.90	281	304.00	293
62.00	311	141.10	3039	213.20	307	309.90	278
63.10	2235	142.10	623	214.60	225	314.00	254
65.10	949	143.00	741	216.10	1170	314.90	1186
66.00	158	146.00	938	217.00	8903	315.80	264
67.40	317	147.00	1053	218.10	1108	316.90	249
68.20	1069	148.00	3231	219.60	328	321.10	294
69.10	57872	148.90	933	221.10	5430	323.00	2842
70.20	497	149.80	244	223.00	1496	324.20	477
70.90	278	151.00	680	224.10	16856	325.90	300
73.00	721	152.10	337	225.00	4109	326.60	330
74.10	4777	153.10	529	225.70	220	327.10	344
75.10	8554	153.70	484	226.20	683	327.90	186
76.10	2478	154.30	297	227.00	7198	331.90	224
77.10	60568	155.10	2509	228.10	1115	334.10	1911
78.10	4662	156.10	2191	229.00	1725	335.10	296
79.10	4823	157.00	556	230.10	150	335.50	231
80.00	3268	157.90	710	230.90	591	340.90	561
81.00	4569	159.00	607	233.10	316	346.10	707
81.90	822	160.10	398	233.70	358	347.10	280
82.90	1238	161.00	1547	234.10	372	351.90	736
83.80	533	162.10	213	235.00	711	352.90	740
84.10	446	162.80	217	236.10	515	353.90	762
85.10	828	163.90	370	237.00	449	354.90	219

86.00	1718	165.10	730	238.80	246	365.00	3692
87.80	282	166.30	788	241.00	435	365.90	860
91.00	1310	167.00	5164	242.00	1187	369.90	280
92.20	1250	168.00	3035	243.00	360	371.00	206
93.10	6461	169.10	243	244.00	11250	372.10	1430
94.10	510	170.60	302	245.10	1908	373.30	442
95.00	512	171.80	353	246.10	1192	382.80	801
96.00	486	172.90	637	246.80	435	383.90	193
98.10	3954	174.00	999	249.00	636	392.10	193
99.10	2757	175.00	2799	249.80	275	401.70	161
100.00	753	175.80	1104	252.20	226	403.10	678
101.00	2351	176.90	1190	253.10	338	403.60	284
103.10	1232	178.00	297	253.90	529	416.90	281
104.00	950	179.00	3457	255.00	64320	421.10	1142
105.20	823	180.00	2566	256.10	9496	422.10	436
105.90	252	181.00	1177	257.00	833	423.10	4651
107.10	17080	181.90	375	258.00	3270	423.90	982
108.10	2185	183.10	202	258.90	701	441.00	11195
108.90	501	184.10	345	263.80	188	442.00	73136
110.10	34704	185.10	2650	265.00	2270	443.00	16068
111.00	5214	186.10	13943	266.00	268	444.00	2009
112.10	403	187.10	4921	271.00	155	445.00	398
114.30	208	188.10	347	271.60	192	495.80	198
116.10	649	189.00	1307	273.00	1982	502.10	150
117.00	11024	190.00	174	274.00	3369	514.80	183
118.00	838	191.00	1306	275.00	23680	519.20	320
119.00	319	192.00	1773	276.00	4098	535.10	227
120.00	261	193.00	966	277.10	2252		
122.00	1826	193.90	432	278.00	602		
123.10	1239	195.00	542	282.80	193		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022813.b\1CB28002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 28-FEB-2013 11:39
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022813.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

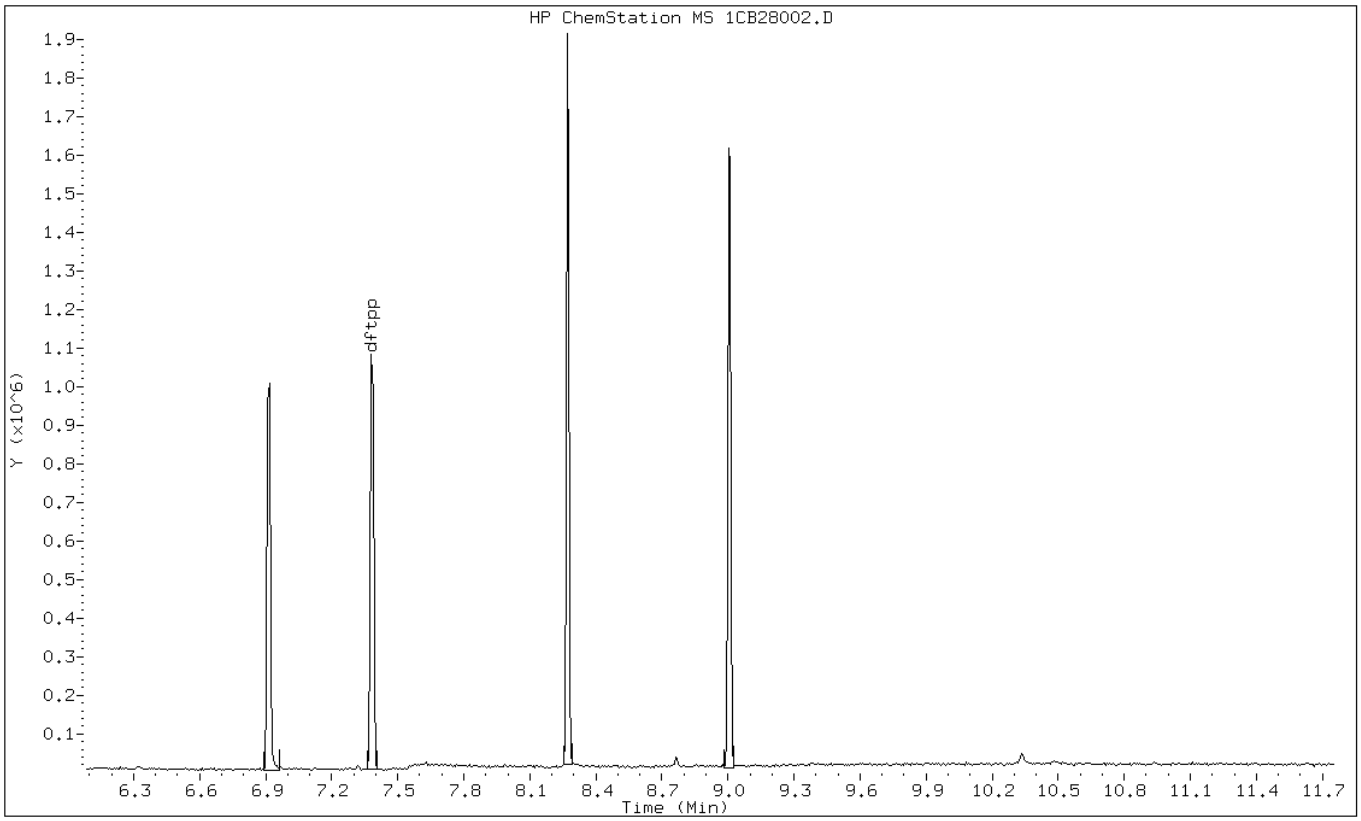
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.380	7.469	-0.089	198	119744			50.00- 0.00	100.00
7.380	7.469	-0.089	51	35852			10.00- 80.00	29.94
7.380	7.469	-0.089	68	856			0.00- 2.00	1.78
7.380	7.469	-0.089	69	48224			0.00- 0.00	40.27
7.380	7.469	-0.089	70	300			0.00- 2.00	0.62
7.380	7.469	-0.089	127	53816			10.00- 80.00	44.94
7.380	7.469	-0.089	197	1250			0.00- 2.00	1.04
7.380	7.469	-0.089	442	106456			50.00- 0.00	88.90
7.380	7.469	-0.089	199	8680			5.00- 9.00	7.25
7.380	7.469	-0.089	275	25680			10.00- 60.00	21.45
7.380	7.469	-0.089	365	3811			1.00- 0.00	3.18
7.380	7.469	-0.089	441	15995			0.01- 99.99	82.67
7.380	7.469	-0.089	443	19348			15.00- 24.00	18.17

Data File: 1CB28002.D

Date: 28-FEB-2013 11:39

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



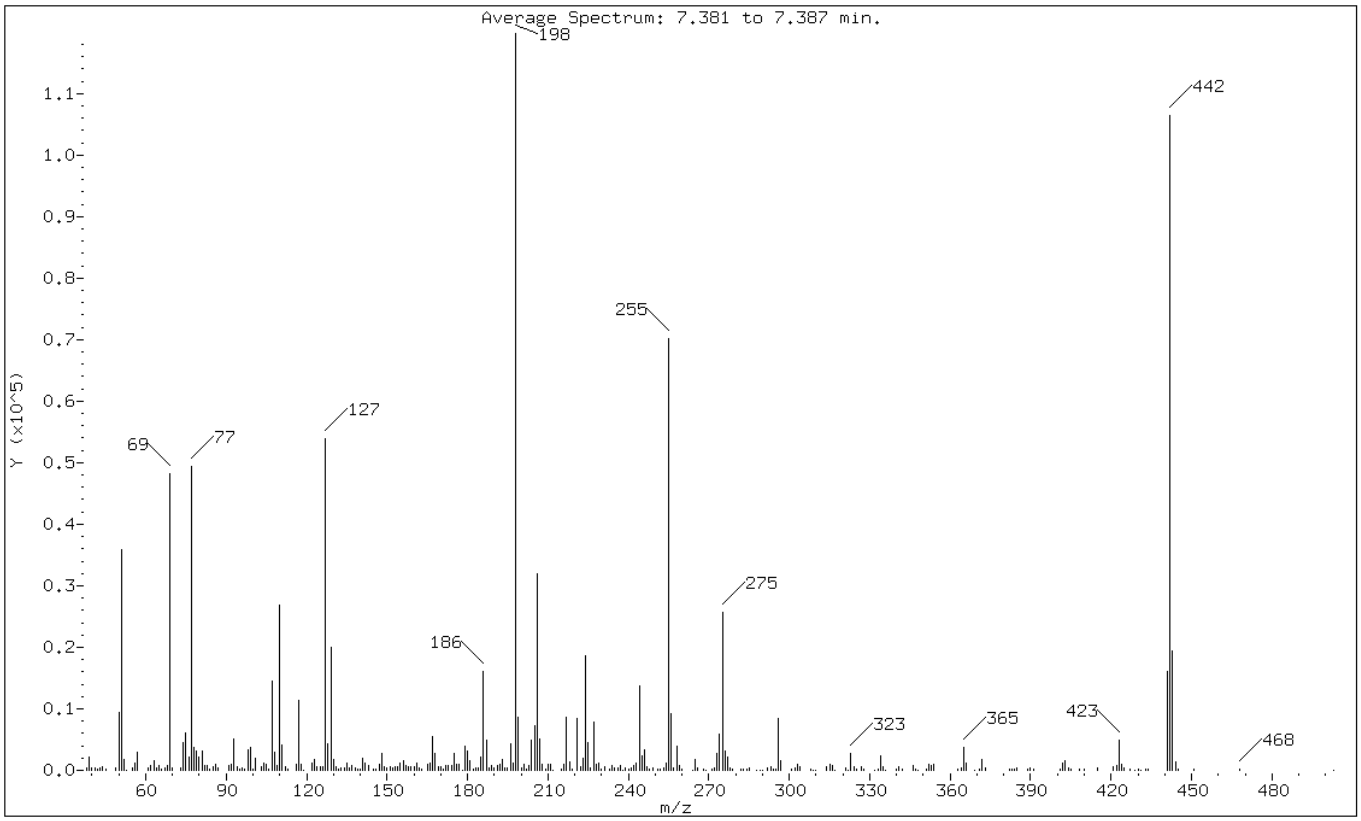
Data File: 1CB28002.D

Date: 28-FEB-2013 11:39

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	29.94
68	Less than 2.00% of mass 69	0.71 (1.78)
69	Mass 69 relative abundance	40.27
70	Less than 2.00% of mass 69	0.25 (0.62)
127	10.00 - 80.00% of mass 198	44.94
197	Less than 2.00% of mass 198	1.04
442	Greater than 50.00% of mass 198	88.90
199	5.00 - 9.00% of mass 198	7.25
275	10.00 - 60.00% of mass 198	21.45
365	Greater than 1.00% of mass 198	3.18
441	Present, but less than mass 443	13.36
443	15.00 - 24.00% of mass 442	16.16 (18.17)

Data File: 1CB28002.D

Date: 28-FEB-2013 11:39

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C022813.b\1CB28002.D
Spectrum: Average Spectrum: 7.381 to 7.387 min.
Location of Maximum: 198.00
Number of points: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	417	131.00	525	209.00	173	303.00	1070
39.00	2158	132.00	152	210.00	987	304.00	585
40.00	486	133.00	469	211.00	1040	308.00	138
41.00	410	134.00	364	212.00	96	309.00	82
42.00	126	135.00	1173	215.00	250	310.00	84
43.00	299	136.00	461	216.00	1036	314.00	668
44.00	508	137.00	710	217.00	8619	315.00	1034
45.00	139	138.00	374	218.00	1280	316.00	761
49.00	333	139.00	213	219.00	271	317.00	75
50.00	9407	140.00	197	221.00	8350	321.00	435
51.00	35848	141.00	1980	222.00	600	322.00	78
52.00	1852	142.00	1243	223.00	1959	323.00	2725
53.00	75	143.00	699	224.00	18584	324.00	550
55.00	411	145.00	110	225.00	4574	325.00	135
56.00	1151	146.00	236	226.00	380	327.00	644
57.00	2941	147.00	981	227.00	7817	328.00	238
61.00	350	148.00	2705	228.00	955	332.00	94
62.00	710	149.00	559	229.00	1208	333.00	261
63.00	1621	150.00	300	230.00	172	334.00	2273
64.00	383	151.00	535	231.00	530	335.00	504
65.00	696	152.00	442	233.00	136	336.00	92
66.00	263	153.00	520	234.00	872	340.00	161
67.00	448	154.00	658	235.00	403	341.00	546
68.00	856	155.00	1114	236.00	298	342.00	114
69.00	48224	156.00	1492	237.00	724	346.00	728
70.00	300	157.00	811	238.00	77	347.00	265
73.00	366	158.00	586	239.00	342	348.00	80
74.00	4463	159.00	643	240.00	260	351.00	239
75.00	6036	160.00	645	241.00	440	352.00	979
76.00	2243	161.00	1162	242.00	745	353.00	713
77.00	49464	162.00	381	243.00	1103	354.00	1012
78.00	3649	163.00	194	244.00	13666	363.00	111
79.00	3038	165.00	1016	245.00	2294	364.00	402
80.00	2191	166.00	1086	246.00	3360	365.00	3811
81.00	3179	167.00	5552	247.00	568	366.00	1154
82.00	805	168.00	2680	248.00	258	369.00	92
83.00	845	169.00	523	249.00	325	371.00	232
84.00	290	170.00	536	251.00	198	372.00	1683
85.00	524	171.00	271	252.00	107	373.00	374
86.00	1064	172.00	817	253.00	311	382.00	165

87.00	404	173.00	791	254.00	1150	383.00	219
91.00	878	174.00	739	255.00	70224	384.00	205
92.00	997	175.00	2652	256.00	9117	385.00	343
93.00	5176	176.00	1051	257.00	338	389.00	179
94.00	559	177.00	1002	258.00	3887	390.00	450
95.00	108	178.00	86	259.00	840	391.00	154
96.00	325	179.00	3863	260.00	164	401.00	101
97.00	250	180.00	3167	264.00	97	402.00	1206
98.00	3262	181.00	1536	265.00	1700	403.00	1498
99.00	3696	182.00	106	266.00	341	404.00	411
100.00	290	183.00	348	268.00	115	405.00	243
101.00	1934	184.00	453	269.00	83	408.00	100
103.00	562	185.00	2178	271.00	285	410.00	98
104.00	1157	186.00	16023	272.00	340	415.00	377
105.00	1033	187.00	4906	273.00	2725	421.00	558
106.00	251	188.00	391	274.00	5829	422.00	814
107.00	14574	189.00	703	275.00	25680	423.00	4817
108.00	2991	190.00	349	276.00	3206	424.00	1047
109.00	741	191.00	805	277.00	2142	425.00	308
110.00	26888	192.00	969	278.00	453	427.00	252
111.00	4175	193.00	1734	279.00	208	429.00	78
112.00	552	194.00	310	282.00	131	430.00	109
113.00	123	195.00	349	283.00	182	431.00	82
116.00	957	196.00	4393	284.00	293	433.00	122
117.00	11335	197.00	1250	285.00	315	434.00	132
118.00	993	198.00	119744	288.00	89	441.00	15995
119.00	87	199.00	8680	289.00	95	442.00	106456
122.00	1094	200.00	399	290.00	85	443.00	19344
123.00	1703	201.00	1017	292.00	318	444.00	1454
124.00	652	202.00	134	293.00	613	445.00	284
125.00	676	203.00	856	294.00	162	451.00	102
126.00	511	204.00	4904	295.00	137	468.00	126
127.00	53816	205.00	7329	296.00	8443	503.00	92
128.00	4359	206.00	31928	297.00	1486		
129.00	20072	207.00	5126	301.00	105		
130.00	1747	208.00	1074	302.00	417		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 22-FEB-2013 11:57
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\d-dftpp198.m
Meth Date : 10-Feb-2013 14:41 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

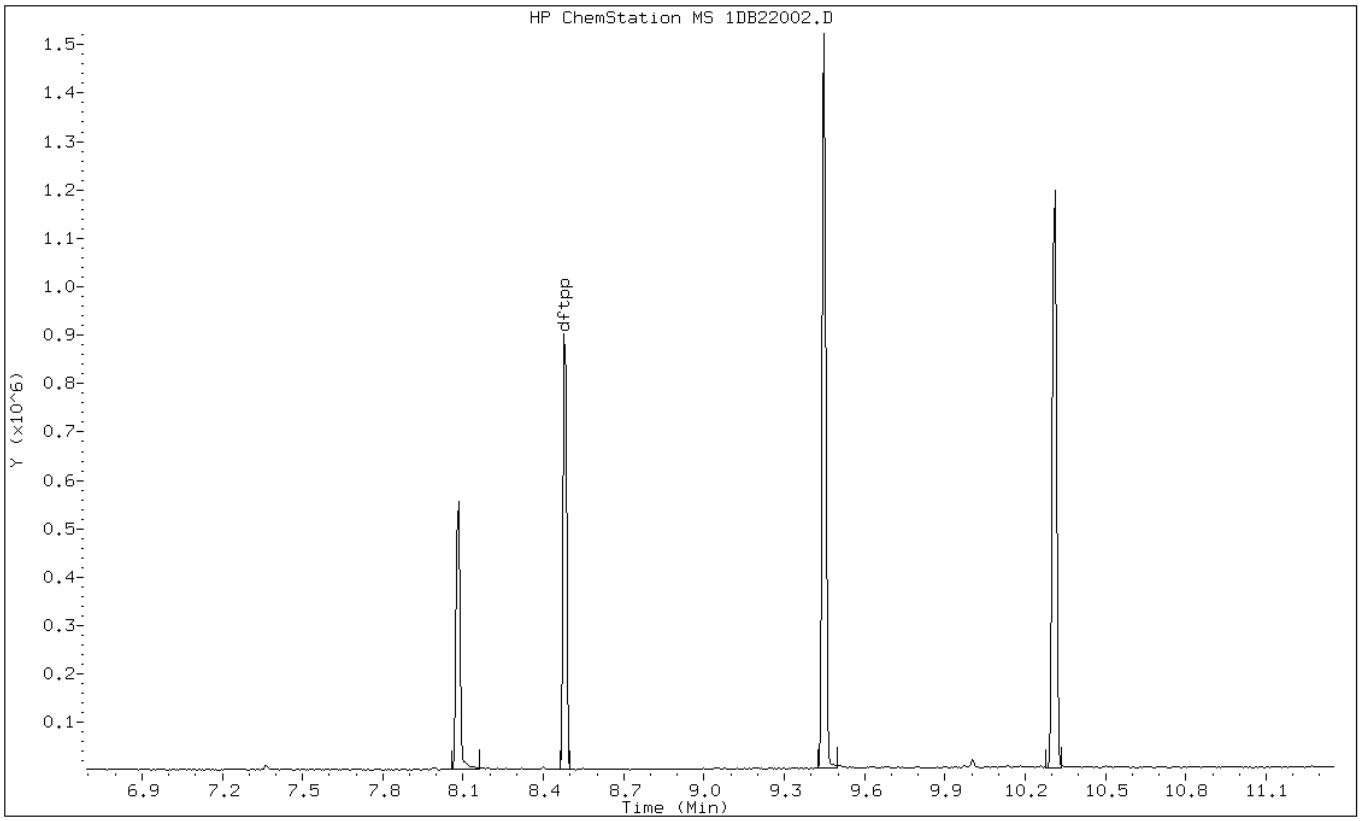
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.477	8.532	-0.055	198	100672			50.00- 0.00	100.00
8.477	8.532	-0.055	51	47200			10.00- 80.00	46.88
8.477	8.532	-0.055	68	0	0.0	0.0	0.00- 2.00	0.00
8.477	8.532	-0.055	69	46864			0.00- 0.00	46.55
8.477	8.532	-0.055	70	0	0.0	0.0	0.00- 2.00	0.00
8.477	8.532	-0.055	127	51248			10.00- 80.00	50.91
8.477	8.532	-0.055	197	0	0.0	0.0	0.00- 2.00	0.00
8.477	8.532	-0.055	442	64976			50.00- 0.00	64.54
8.477	8.532	-0.055	199	7983			5.00- 9.00	7.93
8.477	8.532	-0.055	275	25312			10.00- 60.00	25.14
8.477	8.532	-0.055	365	2913			1.00- 0.00	2.89
8.477	8.532	-0.055	441	10444			0.01- 99.99	78.40
8.477	8.532	-0.055	443	13322			15.00- 24.00	20.50

Data File: 1DB22002.D

Date: 22-FEB-2013 11:57

Client ID: DFTPP | Instrument: BSMSD.i

Sample Info: DFTPP-1490607 | Operator: SCC



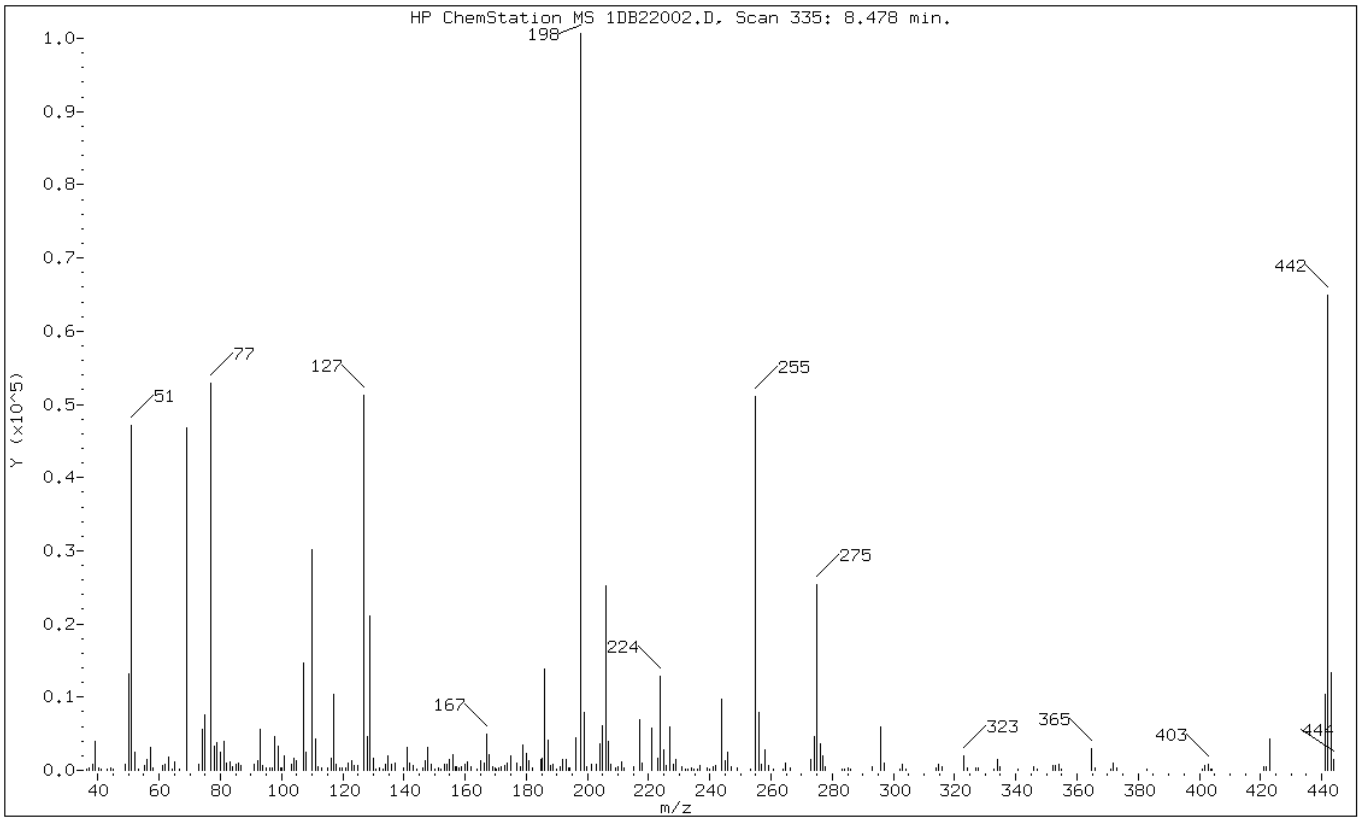
Data File: 1DB22002.D

Date: 22-FEB-2013 11:57

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	46.88
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	46.55
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	50.91
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	64.54
199	5.00 - 9.00% of mass 198	7.93
275	10.00 - 60.00% of mass 198	25.14
365	Greater than 1.00% of mass 198	2.89
441	Present, but less than mass 443	10.37
443	15.00 - 24.00% of mass 442	13.23 (20.50)

Data File: 1DB22002.D

Date: 22-FEB-2013 11:57

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\1DB22002.D
Spectrum: HP ChemStation MS 1DB22002.D, Scan 335: 8.478 min.
Location of Maximum: 197.90
Number of points: 241

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.30	197	115.20	371	178.90	3443	257.00	823
37.00	283	116.10	1643	179.90	2267	257.90	2744
38.10	840	116.90	10345	180.90	1276	259.10	649
39.00	4029	117.90	808	182.10	256	260.60	181
40.10	307	118.90	290	184.90	1563	263.80	188
41.10	246	119.90	325	185.10	1576	264.90	958
43.00	222	120.80	293	186.00	13856	266.30	296
44.00	324	121.90	933	187.00	4060	273.10	1415
45.00	187	123.10	1272	188.00	700	274.00	4623
48.90	792	123.90	596	188.90	880	274.90	25312
50.00	13120	124.90	657	190.00	174	276.00	3568
51.00	47200	127.00	51248	191.10	471	276.90	1899
52.00	2399	128.10	4539	191.80	1499	277.90	482
53.20	206	129.00	21144	193.10	1492	283.10	239
55.10	588	129.90	1625	193.80	298	284.00	158
56.00	1454	130.90	232	194.10	273	285.10	390
57.00	3139	132.00	372	196.00	4461	285.90	196
58.00	280	133.10	193	197.90	100672	292.90	454
61.00	695	134.00	786	198.90	7983	295.90	5925
62.00	830	134.90	1968	199.80	431	296.90	1054
63.00	1811	136.00	819	201.40	803	302.00	199
64.10	190	137.00	946	202.90	742	303.00	877
65.00	1083	139.80	261	204.00	3564	304.10	237
66.80	165	140.90	3120	204.90	6035	314.00	370
69.00	46864	141.90	907	206.00	25272	314.90	811
73.00	834	143.00	599	207.00	3977	316.10	563
74.00	5603	144.10	205	207.80	855	323.00	2019
75.00	7619	146.20	403	209.00	292	324.00	399
77.00	52952	147.10	1400	209.90	465	326.80	356
78.10	3264	147.90	3115	211.10	1207	327.90	285
79.00	3723	149.00	769	211.80	371	333.00	245
80.00	2540	150.00	204	215.00	516	334.00	1434
81.00	3932	151.20	331	216.90	6871	334.90	449
82.00	1066	151.90	245	217.80	933	340.80	236
83.00	1122	152.20	196	221.00	5742	345.80	434
84.00	448	153.10	780	222.90	1718	346.90	155
85.00	839	154.10	760	223.90	12894	352.00	582
85.90	920	154.90	1455	225.00	2847	352.90	693
86.10	903	156.00	2222	225.80	583	354.10	794
86.90	664	156.80	423	226.90	5900	355.00	242

90.90	879	157.30	413	227.90	895	364.90	2913
92.20	1301	158.00	406	229.00	1499	365.90	407
92.90	5556	158.90	453	230.90	530	370.90	239
93.90	654	159.90	786	231.90	178	371.90	1022
95.00	306	160.80	1173	233.00	190	373.00	407
96.00	333	161.90	523	234.00	288	382.90	223
96.80	249	163.80	175	234.80	220	401.00	178
97.90	4532	164.90	1380	235.80	168	401.90	599
99.00	3290	166.10	1007	236.80	623	403.00	796
99.90	302	167.00	4901	239.10	325	403.80	179
100.10	306	167.90	2117	240.00	221	404.00	178
101.00	1934	169.00	519	241.00	419	421.00	483
103.10	838	169.90	270	242.00	691	422.00	527
103.90	1680	170.30	232	244.00	9770	422.90	4204
104.90	1266	170.90	273	245.00	1289	441.00	10444
107.00	14642	171.80	412	245.90	2407	442.00	64976
107.90	2420	172.90	636	246.90	412	443.00	13322
110.00	30136	173.90	999	249.10	305	443.90	1486
111.00	4275	175.00	1902	253.20	215		
112.00	423	176.70	1047	254.90	51056		
112.90	308	177.90	412	255.90	7928		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022713.b\1DB27002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 27-FEB-2013 11:38
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022713.b\d-dftpp198.m
Meth Date : 10-Feb-2013 14:40 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

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.478	8.532	-0.054	198	115736			50.00- 0.00	100.00
8.478	8.532	-0.054	51	42032			10.00- 80.00	36.32
8.478	8.532	-0.054	68	0	0.0	0.0	0.00- 2.00	0.00
8.478	8.532	-0.054	69	44816			0.00- 0.00	38.72
8.478	8.532	-0.054	70	441			0.00- 2.00	0.98
8.478	8.532	-0.054	127	50160			10.00- 80.00	43.34
8.478	8.532	-0.054	197	1744			0.00- 2.00	1.51
8.478	8.532	-0.054	442	107840			50.00- 0.00	93.18
8.478	8.532	-0.054	199	8011			5.00- 9.00	6.92
8.478	8.532	-0.054	275	33792			10.00- 60.00	29.20
8.478	8.532	-0.054	365	3650			1.00- 0.00	3.15
8.478	8.532	-0.054	441	16584			0.01- 99.99	75.46
8.478	8.532	-0.054	443	21976			15.00- 24.00	20.38

Data File: 1DB27002.D

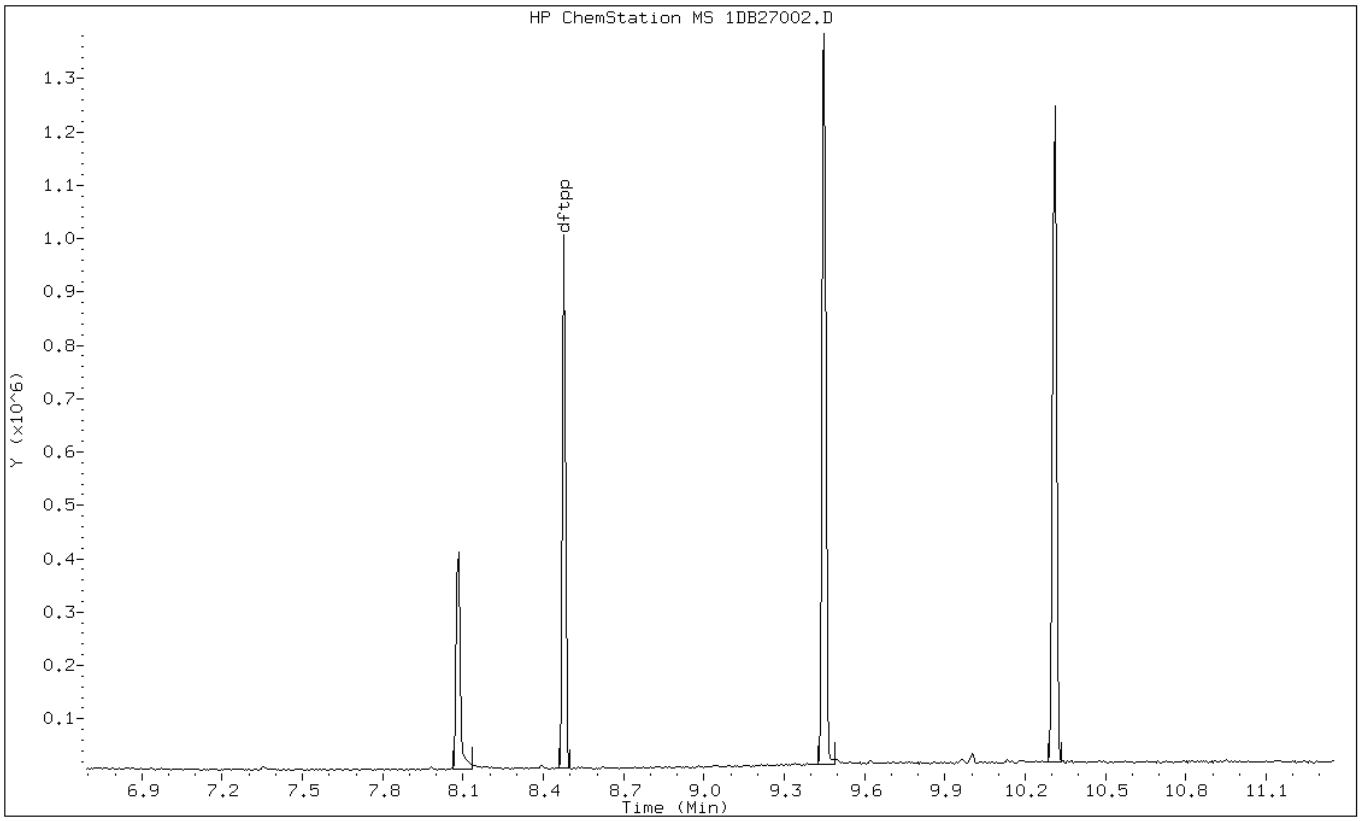
Date: 27-FEB-2013 11:38

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC



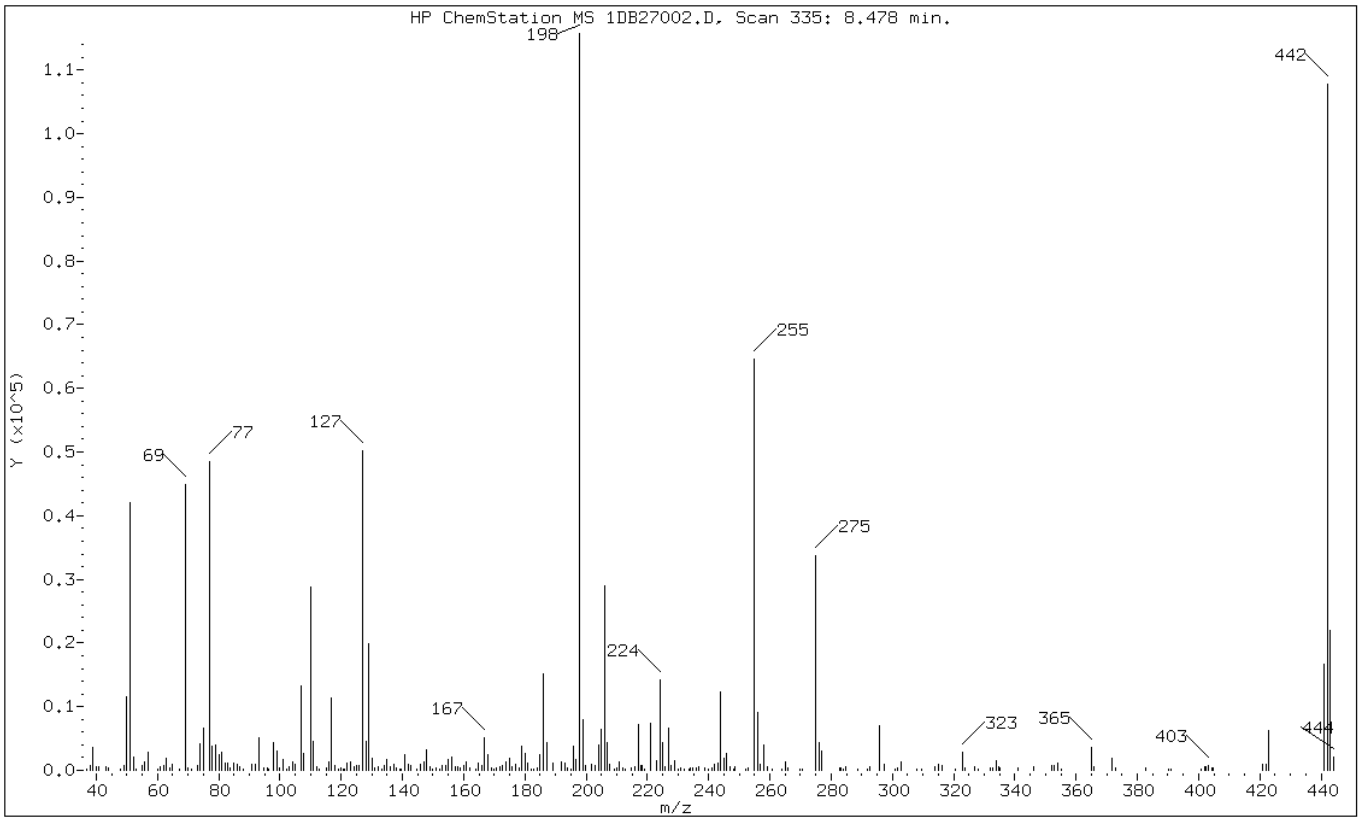
Data File: 1DB27002.D

Date: 27-FEB-2013 11:38

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	36.32
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	38.72
70	Less than 2.00% of mass 69	0.38 (0.98)
127	10.00 - 80.00% of mass 198	43.34
197	Less than 2.00% of mass 198	1.51
442	Greater than 50.00% of mass 198	93.18
199	5.00 - 9.00% of mass 198	6.92
275	10.00 - 60.00% of mass 198	29.20
365	Greater than 1.00% of mass 198	3.15
441	Present, but less than mass 443	14.33
443	15.00 - 24.00% of mass 442	18.99 (20.38)

Data File: 1DB27002.D

Date: 27-FEB-2013 11:38

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D022713.b\1DB27002.D
Spectrum: HP ChemStation MS 1DB27002.D, Scan 335: 8.478 min.
Location of Maximum: 197.90
Number of points: 258

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.90	225	119.30	165	183.90	449	259.10	594
38.10	702	119.80	327	185.00	2398	260.80	164
39.00	3557	120.70	158	186.00	15147	263.80	185
40.10	529	121.20	183	187.00	4312	265.00	1263
41.00	629	122.00	1083	189.10	1079	265.90	369
43.10	537	122.90	1415	192.00	1281	269.90	219
44.10	368	124.10	514	192.90	1226	270.70	163
47.90	151	124.90	807	193.90	303	275.00	33792
49.10	754	125.80	696	194.90	272	276.00	4398
50.00	11640	127.00	50160	195.90	3878	277.00	3083
51.00	42032	128.00	4611	196.80	1744	282.80	369
52.10	2031	129.00	19880	197.90	115736	283.00	377
53.00	187	130.00	1819	198.90	8011	284.10	210
55.00	737	131.10	369	199.80	769	284.90	490
55.90	1329	132.20	480	201.60	872	288.80	167
57.00	2833	133.10	198	202.90	779	292.00	164
60.00	250	133.90	693	204.00	4063	292.80	562
61.00	572	135.00	1648	205.00	6370	295.90	7054
62.00	833	136.10	623	206.00	28984	297.20	872
63.00	1909	137.10	906	207.00	4292	301.00	279
64.10	388	137.90	285	207.80	859	301.80	305
65.00	1020	139.00	226	209.10	237	303.00	1417
67.00	217	139.30	154	210.00	438	308.10	231
69.00	44816	139.60	166	210.90	1254	309.60	156
70.00	441	140.90	2521	211.90	288	313.90	589
71.00	257	142.00	952	212.80	158	315.10	1015
73.00	816	142.80	728	214.80	346	316.10	703
74.00	4243	144.80	254	215.80	648	320.70	210
75.00	6563	145.80	858	216.90	7112	322.90	2908
77.00	48496	146.90	1363	217.80	775	323.90	368
78.00	3820	147.90	3302	218.10	824	326.90	542
79.00	3958	149.10	623	219.00	171	328.00	230
80.00	2417	149.80	165	221.00	7342	332.10	296
81.00	2900	150.90	337	222.90	1480	332.90	300
82.00	1113	152.00	253	224.00	14208	334.00	1562
83.00	1049	152.90	840	224.90	4289	334.80	500
83.90	404	154.00	713	225.90	507	335.10	463
85.00	1053	155.10	1629	227.00	6688	341.00	358
85.90	961	156.00	2175	227.90	833	346.00	566
87.00	533	157.30	557	229.00	1424	351.90	832

88.10	214	158.00	585	230.00	172	352.80	723
90.90	987	158.90	440	230.90	473	354.00	1079
91.90	1014	160.00	844	232.00	271	355.00	229
93.00	5043	161.00	1339	233.50	271	364.90	3650
94.90	288	161.90	393	234.00	396	365.90	660
95.80	385	163.80	224	234.90	386	371.90	1802
96.50	167	164.90	1090	235.90	360	373.00	420
98.00	4321	165.90	785	236.90	486	382.80	428
99.00	3008	166.90	5171	238.80	363	390.10	179
100.00	328	168.00	2376	239.90	232	391.10	175
101.00	1635	169.00	395	241.00	367	400.90	157
102.20	236	170.00	166	241.90	998	402.00	631
103.10	616	170.70	430	243.00	1049	402.20	636
104.00	1385	171.80	544	244.00	12360	403.00	712
104.90	1028	172.80	725	245.10	1899	404.20	327
107.00	13205	173.90	1269	246.00	2696	404.80	322
107.90	2564	175.00	1925	246.90	498	421.00	971
110.00	28824	175.90	624	248.10	150	422.00	953
110.90	4454	176.80	968	248.70	549	422.90	6275
112.00	584	178.10	453	252.30	200	441.00	16584
113.00	178	178.90	3727	252.90	295	442.00	107840
115.00	305	180.00	2603	255.00	64648	443.00	21976
116.00	1408	181.00	1216	256.00	9027	444.10	2017
116.90	11337	182.10	265	256.90	950		
118.10	813	182.80	240	258.00	3902		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87655-3
SDG No.: 68087655-3
Client Sample ID:
Lab Sample ID: MB 660-134818/1-A
Matrix: Solid
Lab File ID: 1CB27017.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/25/2013 14:06
Sample wt/vol: 14.97(g)
Date Analyzed: 02/27/2013 16:52
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 134903
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	86		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\1CB27017.D
Lab Smp Id: mb 660-134818/1-a
Inj Date : 27-FEB-2013 16:52
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-134818/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\a-bFASTPAHi-m.m
Meth Date : 27-Feb-2013 16:31 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 15 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

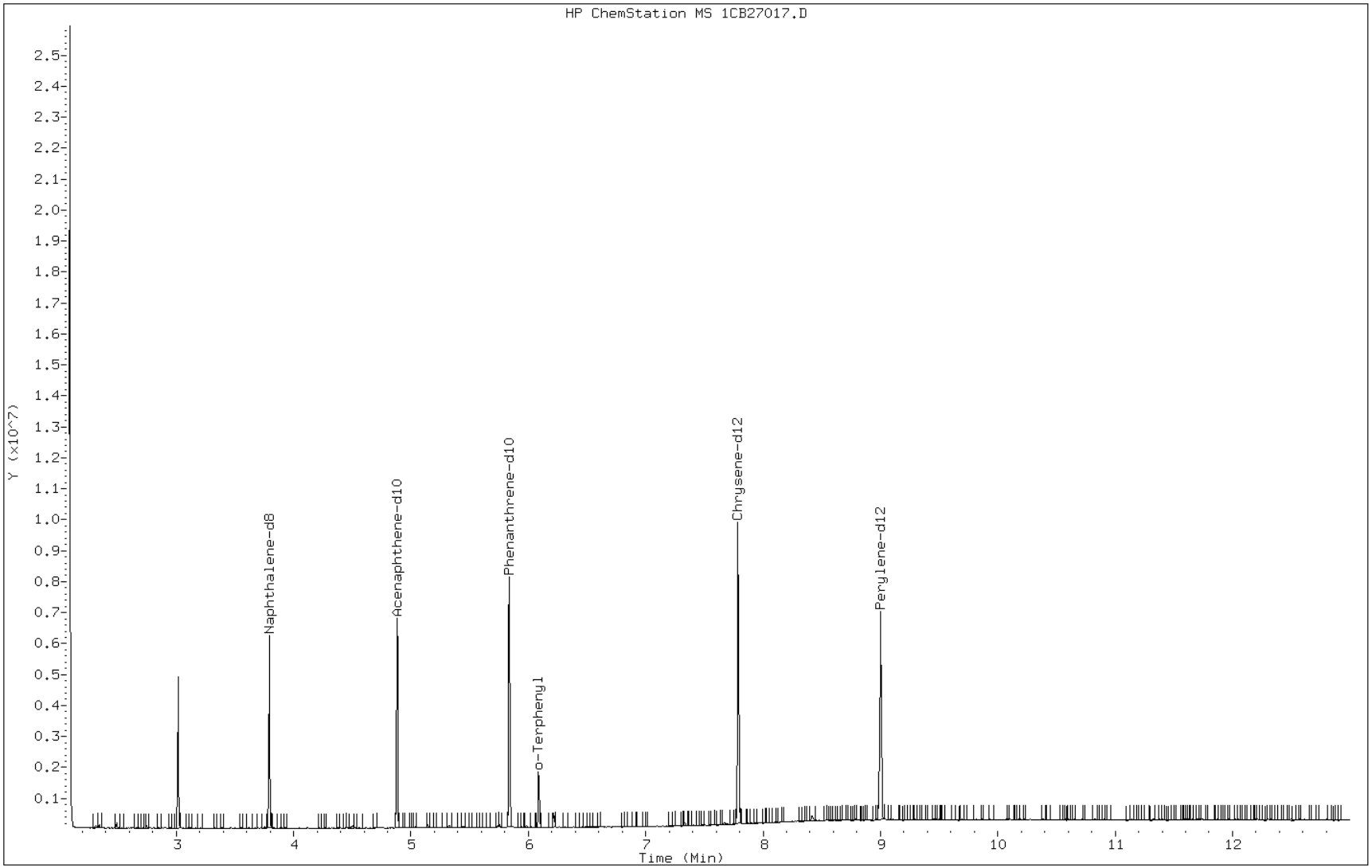
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.792	3.792	(1.000)	1419429	40.0000	
* 6 Acenaphthene-d10	164	4.880	4.880	(1.000)	1108886	40.0000	
* 10 Phenanthrene-d10	188	5.839	5.839	(1.000)	2078632	40.0000	
$ 14 o-Terphenyl	230	6.092	6.092	(1.043)	270189	8.60919	575.0959
* 18 Chrysene-d12	240	7.786	7.792	(1.000)	2680831	40.0000	
* 23 Perylene-d12	264	9.003	9.004	(1.000)	2597567	40.0000	

Data File: 1CB27017.D

Date: 27-FEB-2013 16:52

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-134818/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87655-3

SDG No.: 68087655-3

Client Sample ID: | Lab Sample ID: MB 660-134819/1-A

Matrix: Solid | Lab File ID: 1CB28005.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 02/25/2013 15:00

Sample wt/vol: 15.31(g) | Date Analyzed: 02/28/2013 16:30

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

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

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

Analysis Batch No.: 135011 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	98	U	98	20
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.2	U	8.2	4.1
56-55-3	Benzo[a]anthracene	7.8	U	7.8	3.8
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	6.0
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.3
207-08-9	Benzo[k]fluoranthene	7.8	U	7.8	3.5
218-01-9	Chrysene	8.8	U	8.8	4.4
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.0
206-44-0	Fluoranthene	20	U	20	3.9
86-73-7	Fluorene	20	U	20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	7.0
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.8	U	7.8	3.8
129-00-0	Pyrene	20	U	20	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	79		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022813.b\1CB28005.D
Lab Smp Id: mb 660-134819/1-a
Inj Date : 28-FEB-2013 16:30
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-134819/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022813.b\a-bFASTPAHi-m.m
Meth Date : 28-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.310	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

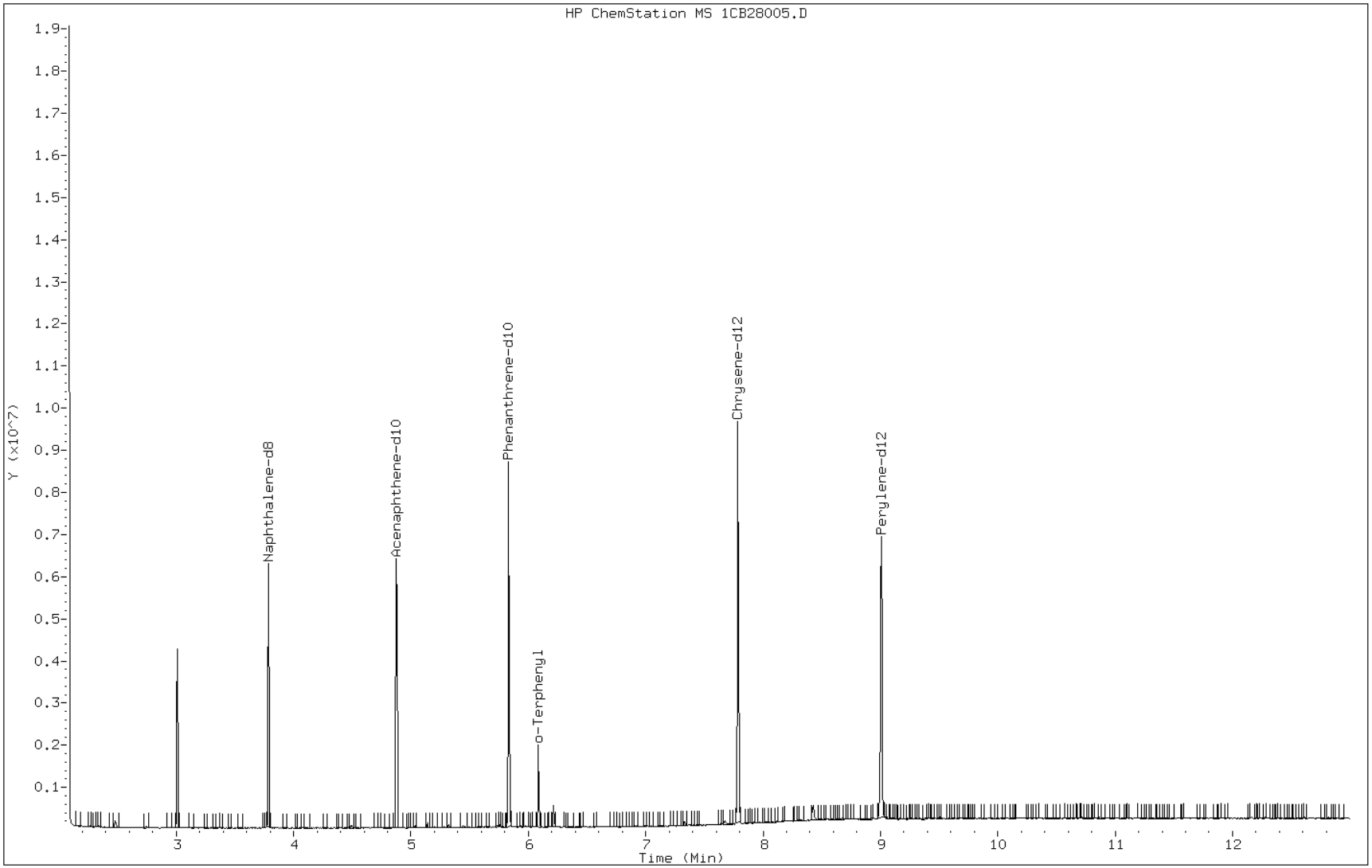
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.786	3.786	(1.000)	1344423	40.0000	
* 6 Acenaphthene-d10	164	4.874	4.874	(1.000)	1004338	40.0000	
* 10 Phenanthrene-d10	188	5.833	5.827	(1.000)	1995150	40.0000	
$ 14 o-Terphenyl	230	6.086	6.080	(1.043)	236754	7.85948	513.3560
* 18 Chrysene-d12	240	7.786	7.774	(1.000)	2467546	40.0000	
* 23 Perylene-d12	264	9.009	8.980	(1.000)	2596490	40.0000	

Data File: 1CB28005.D

Date: 28-FEB-2013 16:30

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-134819/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87655-3

SDG No.: 68087655-3

Client Sample ID: | Lab Sample ID: LCS 660-134818/2-A

Matrix: Solid | Lab File ID: 1CB27018.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 02/25/2013 14:06

Sample wt/vol: 15.11(g) | Date Analyzed: 02/27/2013 17:10

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

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

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

Analysis Batch No.: 134903 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	478		99	20
208-96-8	Acenaphthylene	478		40	5.0
120-12-7	Anthracene	470		8.3	4.2
56-55-3	Benzo[a]anthracene	462		7.9	3.9
50-32-8	Benzo[a]pyrene	428		10	5.2
205-99-2	Benzo[b]fluoranthene	446		12	6.1
191-24-2	Benzo[g,h,i]perylene	413		20	4.4
207-08-9	Benzo[k]fluoranthene	539		7.9	3.6
218-01-9	Chrysene	450		8.9	4.5
53-70-3	Dibenz(a,h)anthracene	462		20	4.1
206-44-0	Fluoranthene	469		20	4.0
86-73-7	Fluorene	485		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	394		20	7.0
90-12-0	1-Methylnaphthalene	491		40	4.4
91-57-6	2-Methylnaphthalene	465		40	7.0
91-20-3	Naphthalene	456		40	4.4
85-01-8	Phenanthrene	457		7.9	3.9
129-00-0	Pyrene	476		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	77		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\1CB27018.D
Lab Smp Id: lcs 660-134818/2-a
Inj Date : 27-FEB-2013 17:10
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-134818/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\a-bFASTPAHi-m.m
Meth Date : 27-Feb-2013 16:31 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 16 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

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	15.110	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.792	3.792	(1.000)	1423351	40.0000	
* 6 Acenaphthene-d10	164	4.886	4.880	(1.000)	1105016	40.0000	
* 10 Phenanthrene-d10	188	5.839	5.839	(1.000)	2170027	40.0000	
$ 14 o-Terphenyl	230	6.092	6.092	(1.043)	252256	7.69925	509.5466
* 18 Chrysene-d12	240	7.786	7.792	(1.000)	2719015	40.0000	
* 23 Perylene-d12	264	9.003	9.004	(1.000)	2726288	40.0000	
2 Naphthalene	128	3.804	3.804	(1.003)	255219	6.88753	455.8262
3 2-Methylnaphthalene	142	4.233	4.233	(1.116)	173562	7.02184	464.7148
4 1-Methylnaphthalene	142	4.298	4.298	(1.133)	167155	7.42526	491.4134
5 Acenaphthylene	152	4.798	4.798	(0.982)	322011	7.22796	478.3557
7 Acenaphthene	154	4.904	4.904	(1.004)	199795	7.21521	477.5123
9 Fluorene	166	5.221	5.221	(1.069)	256624	7.32792	484.9712
11 Phenanthrene	178	5.851	5.851	(1.002)	433005	6.90074	456.7003
12 Anthracene	178	5.886	5.886	(1.008)	435846	7.10231	470.0406
13 Carbazole	167	5.992	5.992	(1.026)	399357	7.32083	484.5024

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.692	6.698	(1.146)	486823	7.08454	468.8646
16 Pyrene	202	6.862	6.863	(0.881)	525333	7.18949	475.8097
17 Benzo(a)anthracene	228	7.780	7.780	(0.999)	548112	6.98445	462.2403
19 Chrysene	228	7.809	7.810	(1.003)	534098	6.80077	450.0838
20 Benzo(b)fluoranthene	252	8.639	8.645	(0.959)	480438	6.74317	446.2723
21 Benzo(k)fluoranthene	252	8.662	8.668	(0.962)	595260	8.14427	538.9986
22 Benzo(a)pyrene	252	8.945	8.945	(0.993)	447520	6.46657	427.9660
24 Indeno(1,2,3-cd)pyrene	276	10.209	10.215	(1.134)	387856	5.95762	394.2834(M)
25 Dibenzo(a,h)anthracene	278	10.227	10.233	(1.136)	444244	6.97626	461.6982
26 Benzo(g,h,i)perylene	276	10.574	10.580	(1.174)	424809	6.23777	412.8241

QC Flag Legend

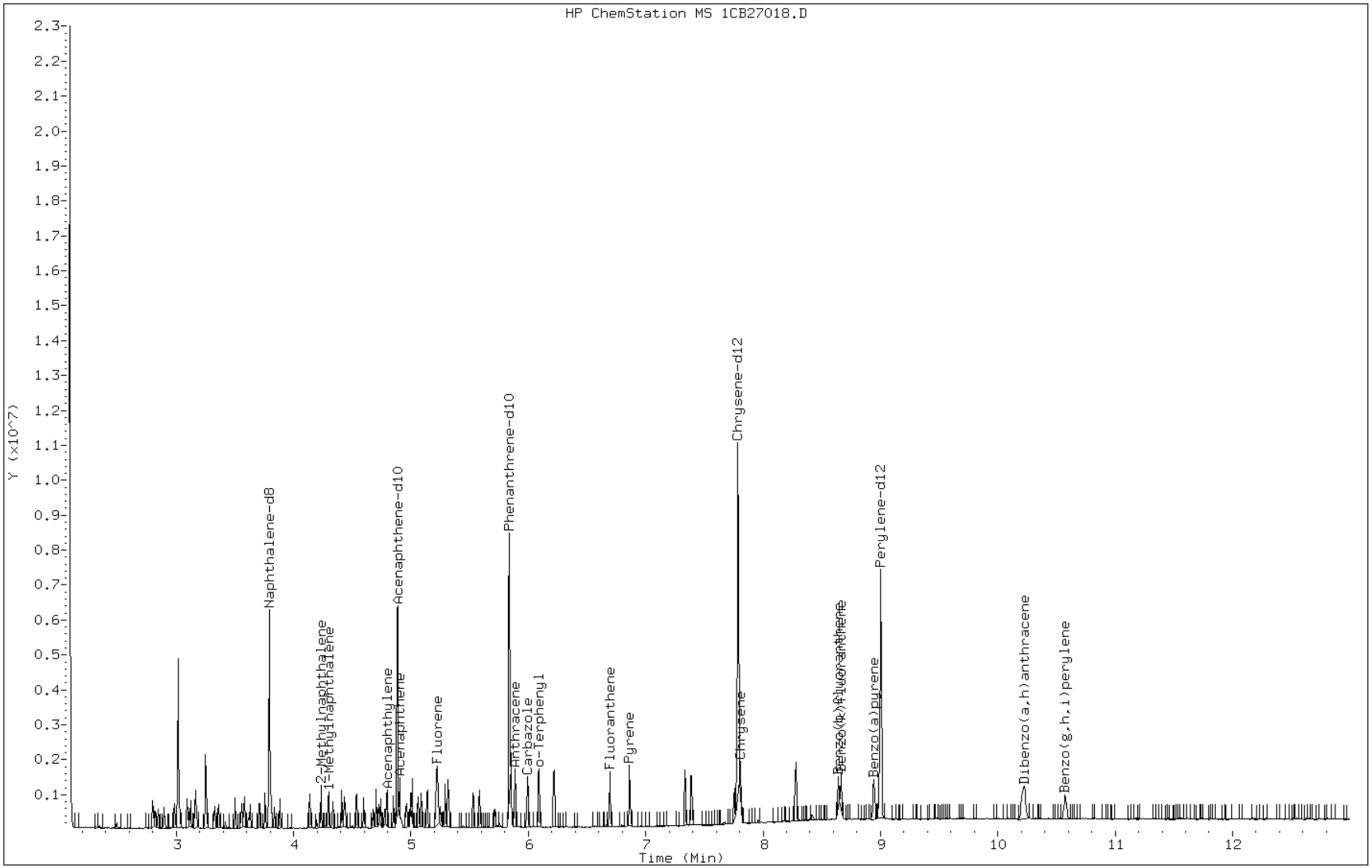
M - Compound response manually integrated.

Data File: 1CB27018.D

Date: 27-FEB-2013 17:10

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-134818/2-a Operator: SCC



Manual Integration Report

Data File: 1CB27018.D
Inj. Date and Time: 27-FEB-2013 17:10
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/01/2013

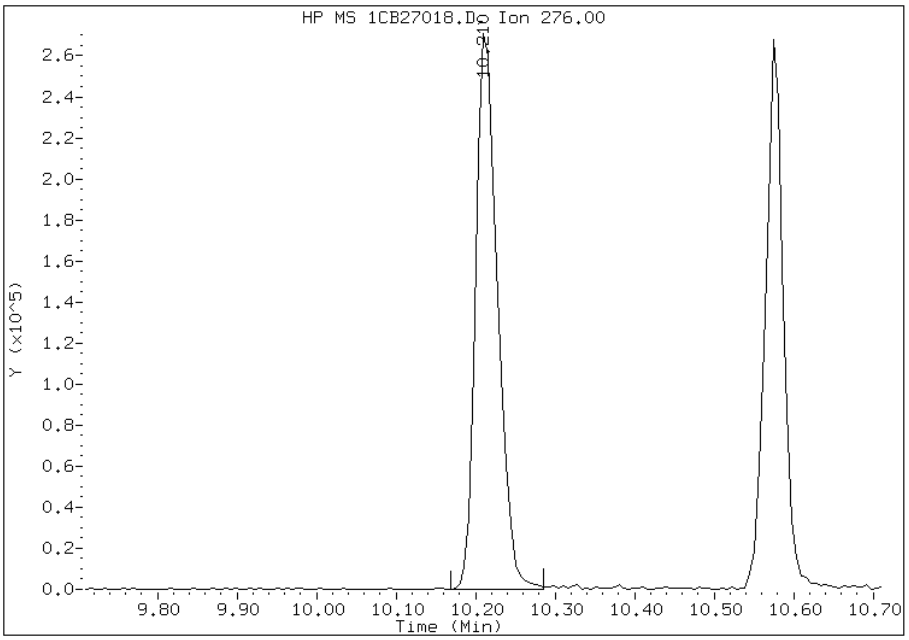
Processing Integration Results

RT: 10.21

Response: 514558

Amount: 8

Conc: 523



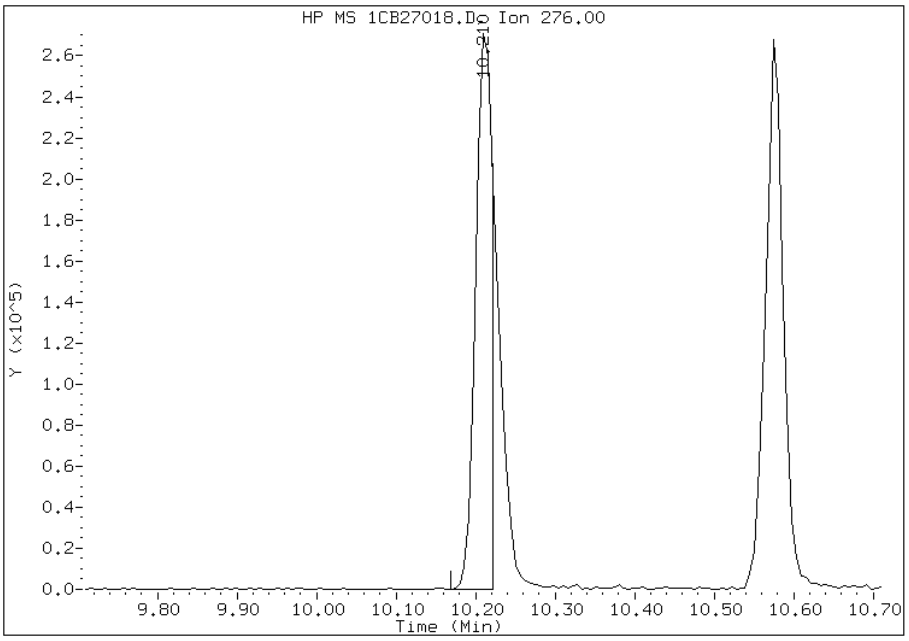
Manual Integration Results

RT: 10.21

Response: 387856

Amount: 6

Conc: 394



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:26
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87655-3
SDG No.: 68087655-3
Client Sample ID:
Lab Sample ID: LCS 660-134819/2-A
Matrix: Solid
Lab File ID: 1CB28006.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/25/2013 15:00
Sample wt/vol: 14.96(g)
Date Analyzed: 02/28/2013 16:48
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.: 135011
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	445		100	20
208-96-8	Acenaphthylene	440		40	5.0
120-12-7	Anthracene	449		8.4	4.2
56-55-3	Benzo[a]anthracene	469		8.0	3.9
50-32-8	Benzo[a]pyrene	438		10	5.2
205-99-2	Benzo[b]fluoranthene	424		12	6.1
191-24-2	Benzo[g,h,i]perylene	444		20	4.4
207-08-9	Benzo[k]fluoranthene	503		8.0	3.6
218-01-9	Chrysene	435		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	462		20	4.1
206-44-0	Fluoranthene	481		20	4.0
86-73-7	Fluorene	453		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	464		20	7.1
90-12-0	1-Methylnaphthalene	482		40	4.4
91-57-6	2-Methylnaphthalene	465		40	7.1
91-20-3	Naphthalene	461		40	4.4
85-01-8	Phenanthrene	429		8.0	3.9
129-00-0	Pyrene	450		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	76		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022813.b\1CB28006.D
Lab Smp Id: lcs 660-134819/2-a
Inj Date : 28-FEB-2013 16:48
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-134819/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022813.b\a-bFASTPAHi-m.m
Meth Date : 28-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.786	3.786	(1.000)	1396453	40.0000	
* 6 Acenaphthene-d10	164	4.874	4.874	(1.000)	1115591	40.0000	
* 10 Phenanthrene-d10	188	5.827	5.827	(1.000)	2148999	40.0000	
$ 14 o-Terphenyl	230	6.080	6.080	(1.043)	248073	7.64567	511.0739
* 18 Chrysene-d12	240	7.774	7.774	(1.000)	2802754	40.0000	
* 23 Perylene-d12	264	8.986	8.980	(1.000)	2932717	40.0000	
2 Naphthalene	128	3.798	3.798	(1.003)	250695	6.89576	460.9464
3 2-Methylnaphthalene	142	4.227	4.227	(1.116)	168543	6.95013	464.5807
4 1-Methylnaphthalene	142	4.286	4.286	(1.132)	159298	7.21254	482.1215
5 Acenaphthylene	152	4.786	4.786	(0.982)	296364	6.58922	440.4556
7 Acenaphthene	154	4.892	4.892	(1.004)	186019	6.65404	444.7887
9 Fluorene	166	5.216	5.216	(1.070)	239606	6.77711	453.0152
11 Phenanthrene	178	5.845	5.845	(1.003)	398879	6.41908	429.0831
12 Anthracene	178	5.874	5.874	(1.008)	408396	6.72012	449.2061

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.986	5.986	(1.027)	379283	7.02088	469.3100
15 Fluoranthene	202	6.680	6.680	(1.146)	489379	7.19143	480.7104
16 Pyrene	202	6.851	6.851	(0.881)	507074	6.73226	450.0176
17 Benzo(a)anthracene	228	7.768	7.762	(0.999)	567586	7.01651	469.0181
19 Chrysene	228	7.792	7.792	(1.002)	526528	6.50407	434.7638
20 Benzo(b)fluoranthene	252	8.627	8.621	(0.960)	485788	6.33834	423.6857
21 Benzo(k)fluoranthene	252	8.645	8.651	(0.962)	592221	7.53236	503.4996
22 Benzo(a)pyrene	252	8.927	8.927	(0.993)	487452	6.54779	437.6865
24 Indeno(1,2,3-cd)pyrene	276	10.186	10.186	(1.134)	485731	6.93585	463.6265(M)
25 Dibenzo(a,h)anthracene	278	10.204	10.203	(1.135)	473086	6.90626	461.6482
26 Benzo(g,h,i)perylene	276	10.545	10.545	(1.173)	486627	6.64253	444.0194

QC Flag Legend

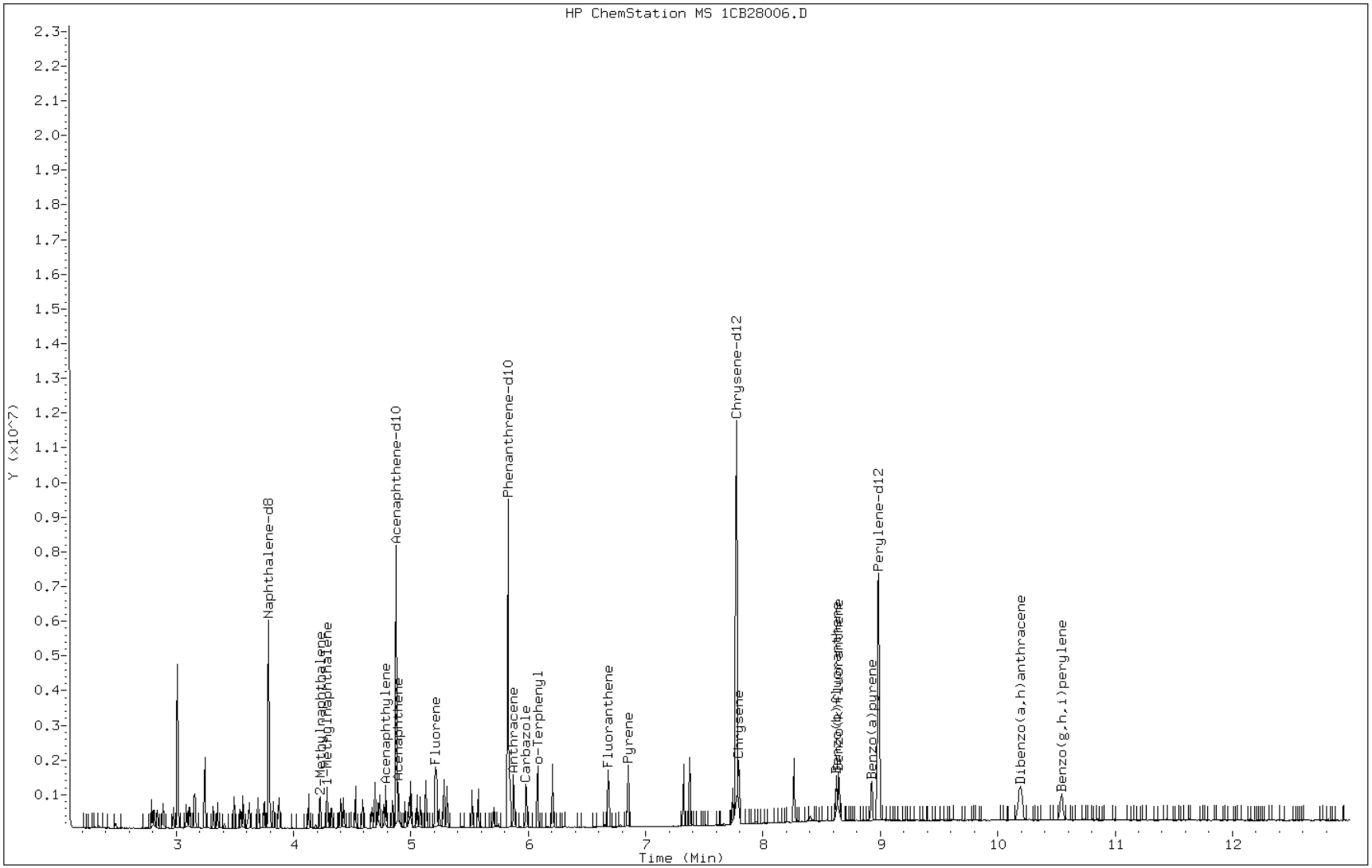
M - Compound response manually integrated.

Data File: 1CB28006.D

Date: 28-FEB-2013 16:48

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-134819/2-a Operator: SCC



Manual Integration Report

Data File: 1CB28006.D
Inj. Date and Time: 28-FEB-2013 16:48
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/04/2013

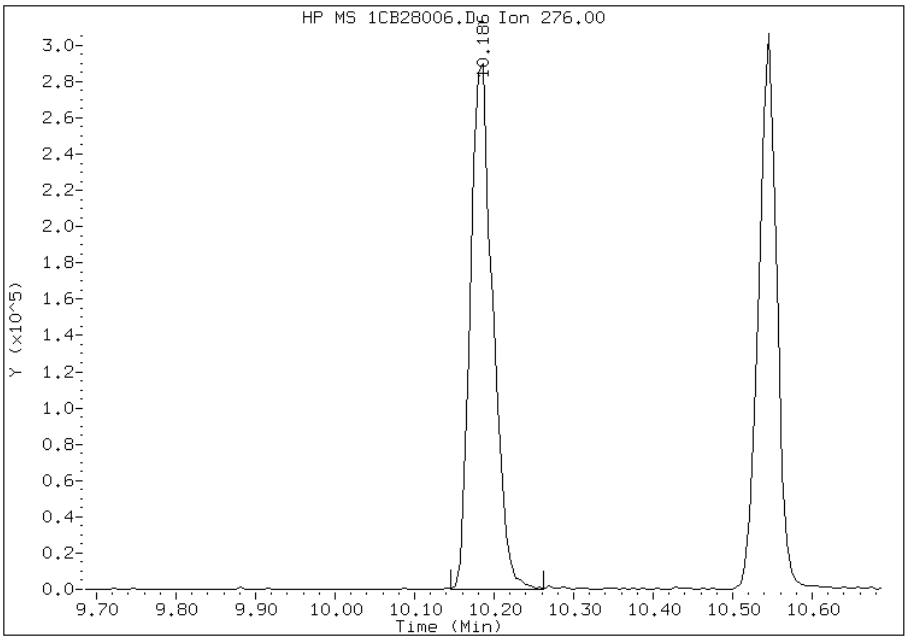
Processing Integration Results

RT: 10.19

Response: 564066

Amount: 8

Conc: 538



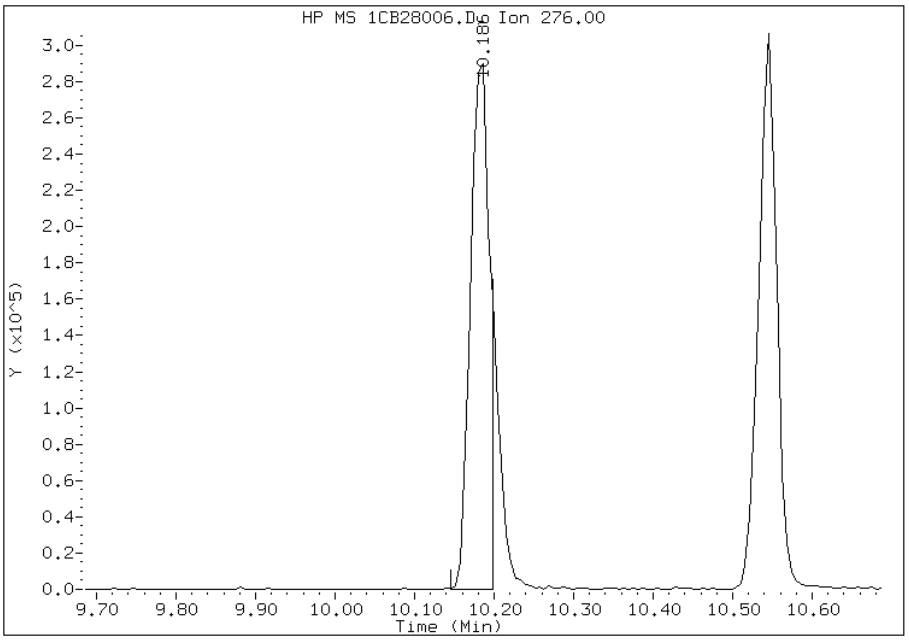
Manual Integration Results

RT: 10.19

Response: 485731

Amount: 7

Conc: 464



Manually Integrated By: cantins
Modification Date: 04-Mar-2013 10:56
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87655-3

SDG No.: 68087655-3

Client Sample ID: | Lab Sample ID: 680-87655-A-65-B MS

Matrix: Solid | Lab File ID: 1CB28016.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 02/25/2013 15:00

Sample wt/vol: 15.26(g) | Date Analyzed: 02/28/2013 19:52

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

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

% Moisture: 15.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 135011 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	399		120	23
208-96-8	Acenaphthylene	434		46	5.8
120-12-7	Anthracene	419		9.7	4.9
56-55-3	Benzo[a]anthracene	456		9.3	4.5
50-32-8	Benzo[a]pyrene	403		12	6.0
205-99-2	Benzo[b]fluoranthene	506		14	7.1
191-24-2	Benzo[g,h,i]perylene	368		23	5.1
207-08-9	Benzo[k]fluoranthene	432		9.3	4.2
218-01-9	Chrysene	438		10	5.2
53-70-3	Dibenz(a,h)anthracene	360		23	4.8
206-44-0	Fluoranthene	509		23	4.6
86-73-7	Fluorene	442		23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	358		23	8.2
90-12-0	1-Methylnaphthalene	497		46	5.1
91-57-6	2-Methylnaphthalene	426		46	8.2
91-20-3	Naphthalene	440		46	5.1
85-01-8	Phenanthrene	453		9.3	4.5
129-00-0	Pyrene	559		23	4.3

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\BSMC5973.i\1C022813.b\1CB28016.D
Lab Smp Id: 680-87655-a-65-b ms
Inj Date : 28-FEB-2013 19:52
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87655-a-65-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022813.b\a-bFASTPAHi-m.m
Meth Date : 28-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 16 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	15.260	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.786	3.786	(1.000)	1857255	40.0000	
* 6 Acenaphthene-d10	164	4.874	4.874	(1.000)	1546627	40.0000	
* 10 Phenanthrene-d10	188	5.827	5.827	(1.000)	2961832	40.0000	
$ 14 o-Terphenyl	230	6.080	6.080	(1.043)	257273	5.75315	377.0086
* 18 Chrysene-d12	240	7.774	7.774	(1.000)	3129672	40.0000	
* 23 Perylene-d12	264	8.986	8.980	(1.000)	2835549	40.0000	
2 Naphthalene	128	3.798	3.798	(1.003)	275293	5.69359	373.1056
3 2-Methylnaphthalene	142	4.227	4.227	(1.117)	177551	5.50503	360.7492
4 1-Methylnaphthalene	142	4.286	4.286	(1.132)	188760	6.42603	421.1026
5 Acenaphthylene	152	4.786	4.786	(0.982)	350023	5.61338	367.8491
7 Acenaphthene	154	4.892	4.892	(1.004)	200012	5.16064	338.1808
9 Fluorene	166	5.215	5.216	(1.070)	279894	5.71031	374.2012
11 Phenanthrene	178	5.845	5.845	(1.003)	501584	5.85668	383.7927
12 Anthracene	178	5.880	5.874	(1.009)	453456	5.41386	354.7743

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.986	5.986	(1.027)	420296	5.64494	369.9172
15 Fluoranthene	202	6.686	6.680	(1.147)	617723	6.58627	431.6033
16 Pyrene	202	6.851	6.851	(0.881)	607543	7.22359	473.3674
17 Benzo(a)anthracene	228	7.768	7.762	(0.999)	532800	5.89848	386.5319
19 Chrysene	228	7.798	7.792	(1.003)	511664	5.66024	370.9197
20 Benzo(b)fluoranthene	252	8.627	8.621	(0.960)	485195	6.54754	429.0653
21 Benzo(k)fluoranthene	252	8.651	8.651	(0.963)	424779	5.58783	366.1748
22 Benzo(a)pyrene	252	8.927	8.927	(0.993)	375381	5.21517	341.7540
24 Indeno(1,2,3-cd)pyrene	276	10.186	10.186	(1.134)	313540	4.63052	303.4418(M)
25 Dibenzo(a,h)anthracene	278	10.203	10.203	(1.135)	308322	4.65522	305.0603
26 Benzo(g,h,i)perylene	276	10.550	10.545	(1.174)	336786	4.75471	311.5802

QC Flag Legend

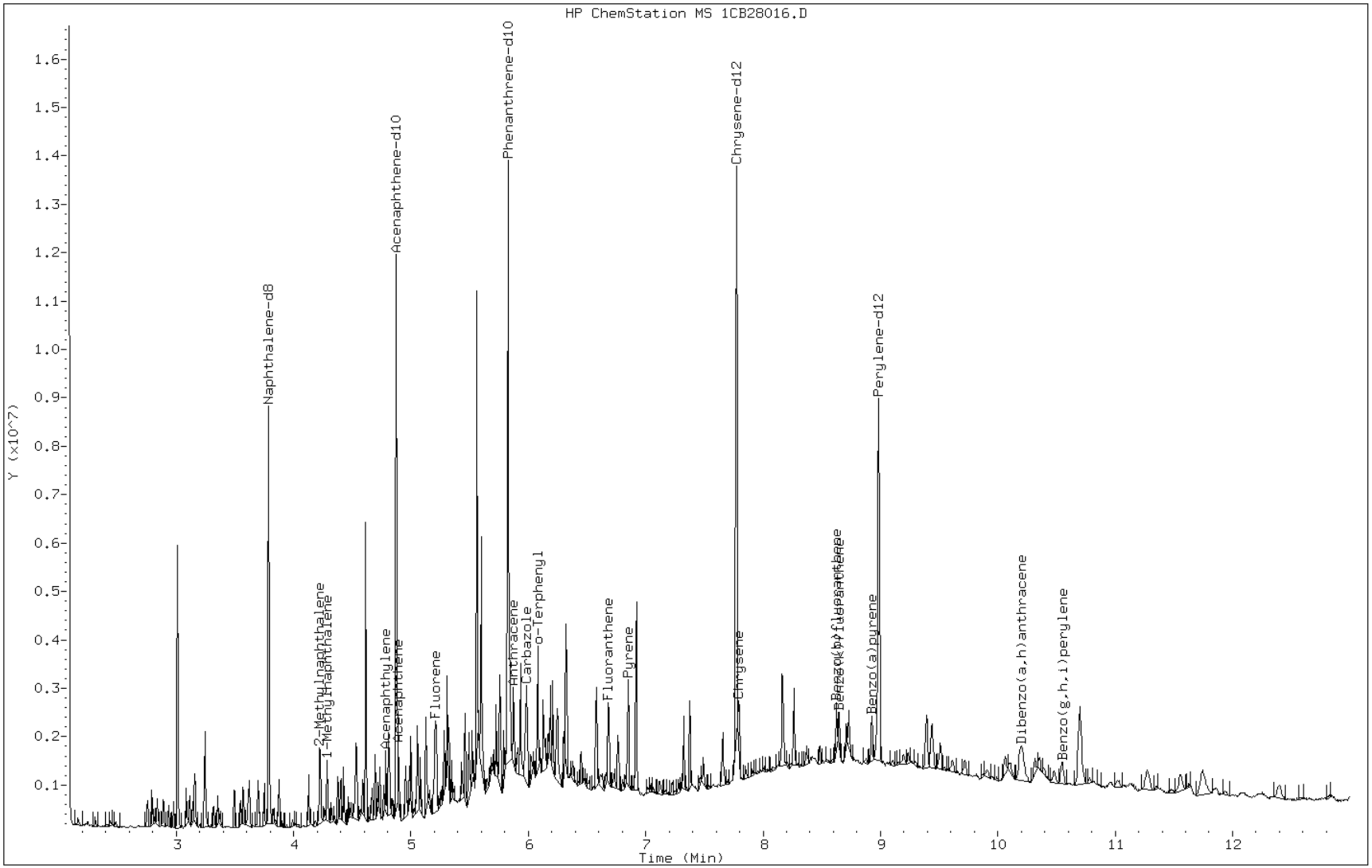
M - Compound response manually integrated.

Data File: 1CB28016.D

Date: 28-FEB-2013 19:52

Client ID: Instrument: BSMC5973.i

Sample Info: 680-87655-a-65-b ms Operator: SCC



Manual Integration Report

Data File: 1CB28016.D
Inj. Date and Time: 28-FEB-2013 19:52
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/04/2013

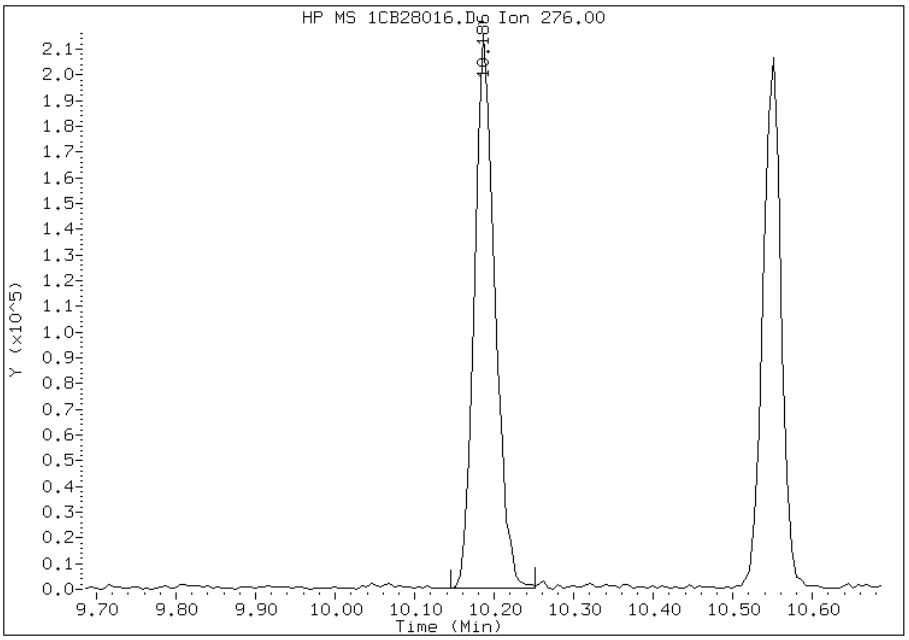
Processing Integration Results

RT: 10.19

Response: 383476

Amount: 6

Conc: 371



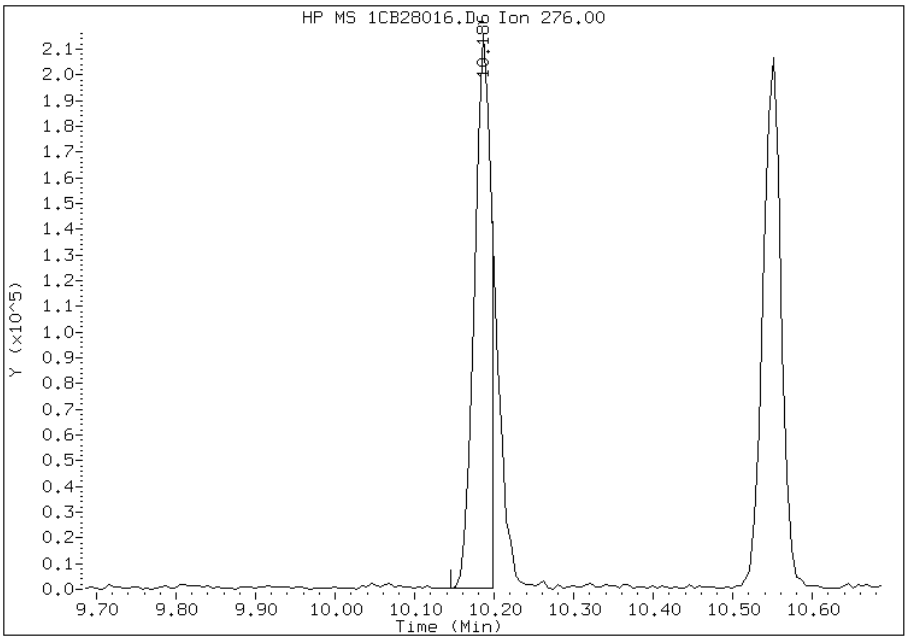
Manual Integration Results

RT: 10.19

Response: 313540

Amount: 5

Conc: 303



Manually Integrated By: cantins
Modification Date: 04-Mar-2013 11:22
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87655-3

SDG No.: 68087655-3

Client Sample ID: FM0161KKKK-CS MS | Lab Sample ID: 680-87655-41 MS

Matrix: Solid | Lab File ID: 1CB27024.D

Analysis Method: 8270C LL | Date Collected: 02/19/2013 12:58

Extract. Method: 3546 | Date Extracted: 02/25/2013 14:06

Sample wt/vol: 14.95(g) | Date Analyzed: 02/27/2013 19:00

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

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

% Moisture: 24.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134903 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	642		130	27
208-96-8	Acenaphthylene	656		53	6.7
120-12-7	Anthracene	675		11	5.6
56-55-3	Benzo[a]anthracene	719		11	5.2
50-32-8	Benzo[a]pyrene	651		14	6.9
205-99-2	Benzo[b]fluoranthene	828		16	8.1
191-24-2	Benzo[g,h,i]perylene	631		27	5.9
207-08-9	Benzo[k]fluoranthene	702		11	4.8
218-01-9	Chrysene	739		12	6.0
53-70-3	Dibenz(a,h)anthracene	601		27	5.5
206-44-0	Fluoranthene	779		27	5.3
86-73-7	Fluorene	664		27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	620		27	9.5
90-12-0	1-Methylnaphthalene	751		53	5.9
91-57-6	2-Methylnaphthalene	689		53	9.5
91-20-3	Naphthalene	690		53	5.9
85-01-8	Phenanthrene	705		11	5.2
129-00-0	Pyrene	836		27	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	79		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\1CB27024.D
Lab Smp Id: 680-87655-a-41-b ms
Inj Date : 27-FEB-2013 19:00
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87655-a-41-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\a-bFASTPAHi-m.m
Meth Date : 27-Feb-2013 16:31 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 22 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.792	3.792	(1.000)	1683009	40.0000	
* 6 Acenaphthene-d10	164	4.886	4.880	(1.000)	1340594	40.0000	
* 10 Phenanthrene-d10	188	5.839	5.839	(1.000)	2509689	40.0000	
$ 14 o-Terphenyl	230	6.092	6.092	(1.043)	298412	7.87532	526.7775
* 18 Chrysene-d12	240	7.792	7.792	(1.000)	2765356	40.0000	
* 23 Perylene-d12	264	9.004	9.004	(1.000)	2585133	40.0000	
2 Naphthalene	128	3.804	3.804	(1.003)	340214	7.76477	519.3825
3 2-Methylnaphthalene	142	4.233	4.233	(1.116)	226698	7.75657	518.8340
4 1-Methylnaphthalene	142	4.298	4.298	(1.133)	225037	8.45418	565.4971
5 Acenaphthylene	152	4.798	4.798	(0.982)	399085	7.38383	493.9014
7 Acenaphthene	154	4.904	4.904	(1.004)	242657	7.22318	483.1560
9 Fluorene	166	5.221	5.221	(1.069)	317308	7.46854	499.5676
11 Phenanthrene	178	5.851	5.851	(1.002)	575999	7.93725	530.9195
12 Anthracene	178	5.886	5.886	(1.008)	539407	7.60026	508.3788
13 Carbazole	167	5.992	5.992	(1.026)	475566	7.53798	504.2129

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.698	6.698	(1.147)	696579	8.76509	586.2937
16 Pyrene	202	6.863	6.863	(0.881)	698870	9.40416	629.0409
17 Benzo(a)anthracene	228	7.780	7.780	(0.998)	646196	8.09632	541.5600
19 Chrysene	228	7.810	7.810	(1.002)	664201	8.31566	556.2317
20 Benzo(b)fluoranthene	252	8.645	8.645	(0.960)	629552	9.31853	623.3132
21 Benzo(k)fluoranthene	252	8.668	8.668	(0.963)	547762	7.90362	528.6703
22 Benzo(a)pyrene	252	8.945	8.945	(0.993)	480496	7.32217	489.7774
24 Indeno(1,2,3-cd)pyrene	276	10.215	10.215	(1.135)	431109	6.98358	467.1293(M)
25 Dibenzo(a,h)anthracene	278	10.233	10.233	(1.137)	408355	6.76282	452.3625
26 Benzo(g,h,i)perylene	276	10.574	10.580	(1.174)	458674	7.10279	475.1028

QC Flag Legend

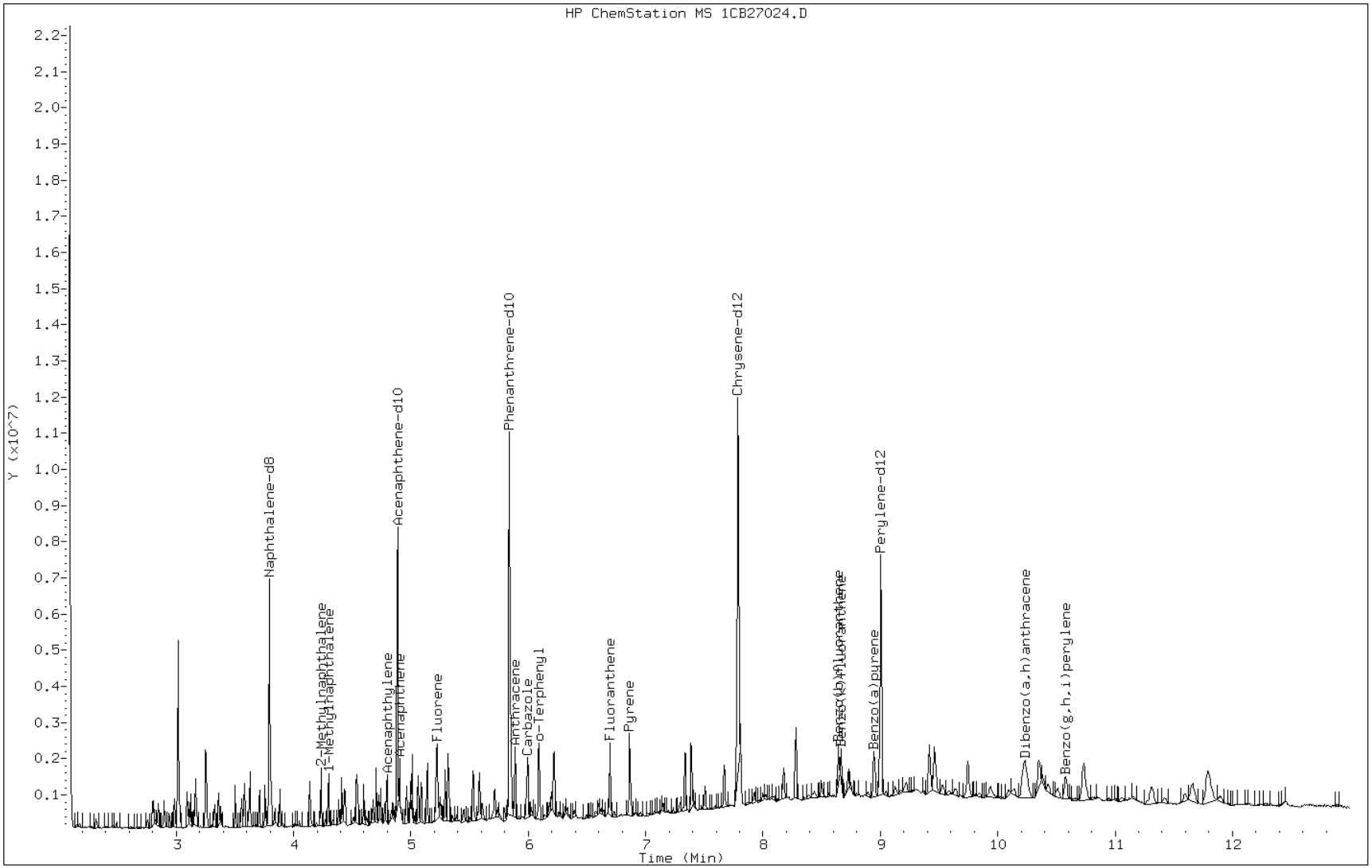
M - Compound response manually integrated.

Data File: 1CB27024.D

Date: 27-FEB-2013 19:00

Client ID: Instrument: BSMC5973.i

Sample Info: 680-87655-a-41-b ms Operator: SCC



Manual Integration Report

Data File: 1CB27024.D
Inj. Date and Time: 27-FEB-2013 19:00
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/01/2013

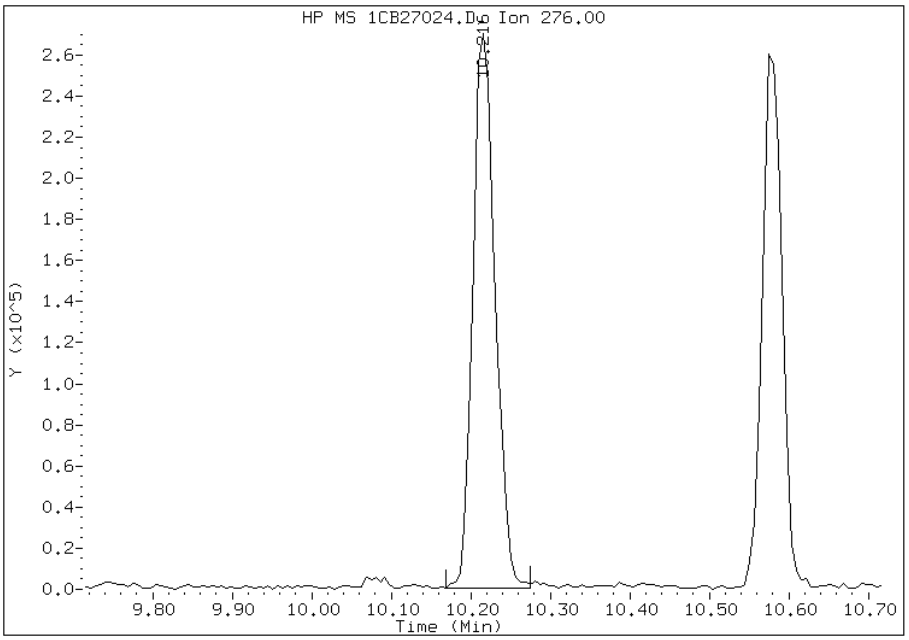
Processing Integration Results

RT: 10.22

Response: 520139

Amount: 8

Conc: 564



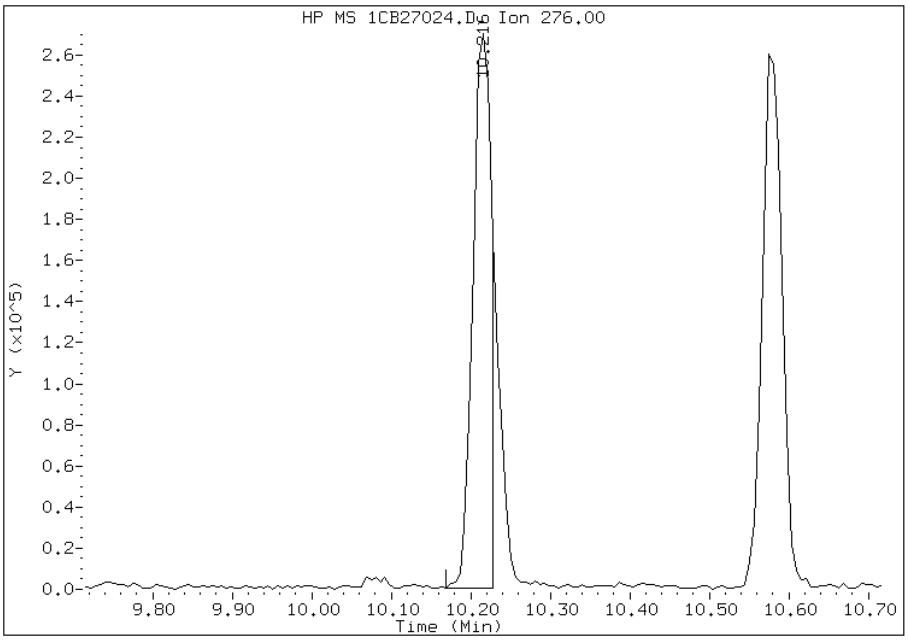
Manual Integration Results

RT: 10.22

Response: 431109

Amount: 7

Conc: 467



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:32
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87655-3
SDG No.: 68087655-3
Client Sample ID:
Lab Sample ID: 680-87655-A-65-C MSD
Matrix: Solid
Lab File ID: 1CB28017.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/25/2013 15:00
Sample wt/vol: 15.26(g)
Date Analyzed: 02/28/2013 20:10
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 15.3
GPC Cleanup:(Y/N) N
Analysis Batch No.: 135011
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	456		120	23
208-96-8	Acenaphthylene	483		46	5.8
120-12-7	Anthracene	451		9.7	4.9
56-55-3	Benzo[a]anthracene	458		9.3	4.5
50-32-8	Benzo[a]pyrene	415		12	6.0
205-99-2	Benzo[b]fluoranthene	535		14	7.1
191-24-2	Benzo[g,h,i]perylene	390		23	5.1
207-08-9	Benzo[k]fluoranthene	451		9.3	4.2
218-01-9	Chrysene	447		10	5.2
53-70-3	Dibenz(a,h)anthracene	436		23	4.8
206-44-0	Fluoranthene	479		23	4.6
86-73-7	Fluorene	480		23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	403		23	8.2
90-12-0	1-Methylnaphthalene	542		46	5.1
91-57-6	2-Methylnaphthalene	522		46	8.2
91-20-3	Naphthalene	505		46	5.1
85-01-8	Phenanthrene	460		9.3	4.5
129-00-0	Pyrene	533		23	4.3

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022813.b\1CB28017.D
Lab Smp Id: 680-87655-a-65-c ms
Inj Date : 28-FEB-2013 20:10
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87655-a-65-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022813.b\a-bFASTPAHi-m.m
Meth Date : 28-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 17 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	15.260	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.786	3.786	(1.000)	1775323	40.0000	
* 6 Acenaphthene-d10	164	4.874	4.874	(1.000)	1493346	40.0000	
* 10 Phenanthrene-d10	188	5.827	5.827	(1.000)	2857361	40.0000	
$ 14 o-Terphenyl	230	6.080	6.080	(1.043)	278079	6.44578	422.3967
* 18 Chrysene-d12	240	7.774	7.774	(1.000)	3052496	40.0000	
* 23 Perylene-d12	264	8.986	8.980	(1.000)	2787512	40.0000	
2 Naphthalene	128	3.798	3.798	(1.003)	301538	6.52420	427.5362
3 2-Methylnaphthalene	142	4.227	4.227	(1.117)	208267	6.75541	442.6871
4 1-Methylnaphthalene	142	4.286	4.286	(1.132)	196810	7.00929	459.3242
5 Acenaphthylene	152	4.786	4.786	(0.982)	376085	6.24653	409.3401
7 Acenaphthene	154	4.892	4.892	(1.004)	220731	5.89842	386.5283
9 Fluorene	166	5.215	5.216	(1.070)	293866	6.20927	406.8985
11 Phenanthrene	178	5.845	5.845	(1.003)	490941	5.94199	389.3836
12 Anthracene	178	5.874	5.874	(1.008)	470771	5.82608	381.7877

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.986	5.986	(1.027)	413314	5.75413	377.0724
15 Fluoranthene	202	6.686	6.680	(1.147)	560525	6.19492	405.9582
16 Pyrene	202	6.851	6.851	(0.881)	565386	6.89231	451.6584
17 Benzo(a)anthracene	228	7.768	7.762	(0.999)	521707	5.92170	388.0535
19 Chrysene	228	7.798	7.792	(1.003)	509111	5.77439	378.4001
20 Benzo(b)fluoranthene	252	8.627	8.621	(0.960)	503842	6.91634	453.2333
21 Benzo(k)fluoranthene	252	8.645	8.651	(0.962)	435688	5.83010	382.0511
22 Benzo(a)pyrene	252	8.927	8.927	(0.993)	379630	5.36509	351.5785
24 Indeno(1,2,3-cd)pyrene	276	10.186	10.186	(1.134)	347033	5.21349	341.6439(M)
25 Dibenzo(a,h)anthracene	278	10.203	10.203	(1.135)	367362	5.64222	369.7394
26 Benzo(g,h,i)perylene	276	10.544	10.545	(1.173)	351039	5.04134	330.3632

QC Flag Legend

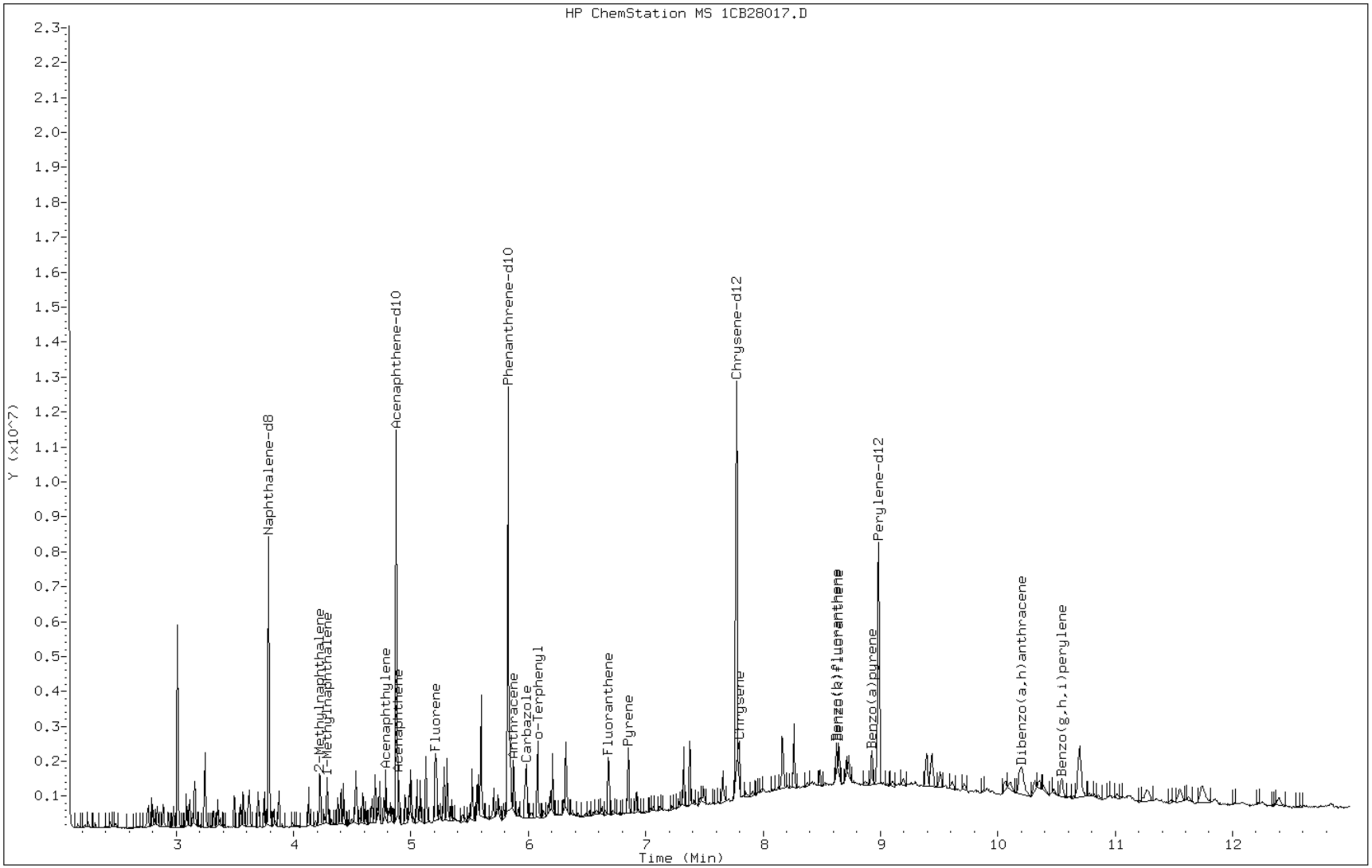
M - Compound response manually integrated.

Data File: 1CB28017.D

Date: 28-FEB-2013 20:10

Client ID: Instrument: BSMC5973.i

Sample Info: 680-87655-a-65-c msd Operator: SCC



Manual Integration Report

Data File: 1CB28017.D
Inj. Date and Time: 28-FEB-2013 20:10
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/04/2013

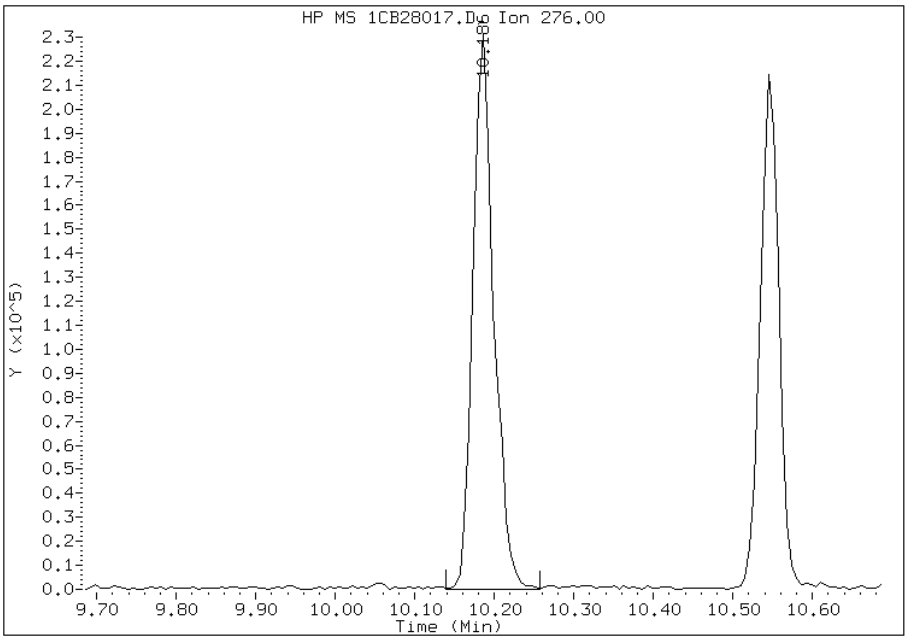
Processing Integration Results

RT: 10.19

Response: 418393

Amount: 6

Conc: 412



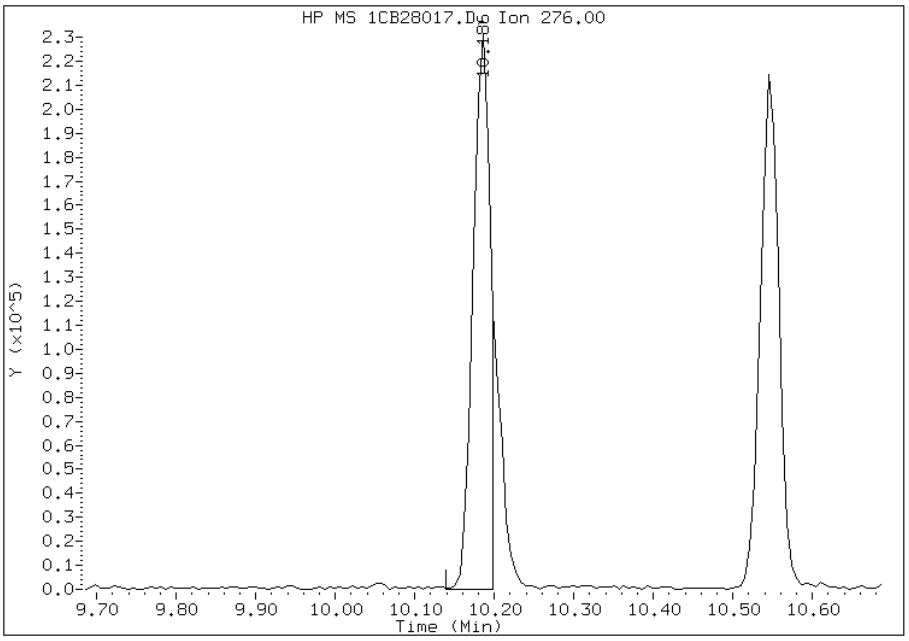
Manual Integration Results

RT: 10.19

Response: 347033

Amount: 5

Conc: 342



Manually Integrated By: cantins
Modification Date: 04-Mar-2013 11:23
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87655-3

SDG No.: 68087655-3

Client Sample ID: FM0161KKKK-CS MSD | Lab Sample ID: 680-87655-41 MSD

Matrix: Solid | Lab File ID: 1CB27025.D

Analysis Method: 8270C LL | Date Collected: 02/19/2013 12:58

Extract. Method: 3546 | Date Extracted: 02/25/2013 14:06

Sample wt/vol: 14.95(g) | Date Analyzed: 02/27/2013 19:18

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

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

% Moisture: 24.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134903 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	692		130	27
208-96-8	Acenaphthylene	732		53	6.7
120-12-7	Anthracene	699		11	5.6
56-55-3	Benzo[a]anthracene	804		11	5.2
50-32-8	Benzo[a]pyrene	719		14	6.9
205-99-2	Benzo[b]fluoranthene	869		16	8.1
191-24-2	Benzo[g,h,i]perylene	672		27	5.9
207-08-9	Benzo[k]fluoranthene	750		11	4.8
218-01-9	Chrysene	737		12	6.0
53-70-3	Dibenz(a,h)anthracene	684		27	5.5
206-44-0	Fluoranthene	795		27	5.3
86-73-7	Fluorene	724		27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	664		27	9.5
90-12-0	1-Methylnaphthalene	824		53	5.9
91-57-6	2-Methylnaphthalene	802		53	9.5
91-20-3	Naphthalene	764		53	5.9
85-01-8	Phenanthrene	749		11	5.2
129-00-0	Pyrene	915		27	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	83		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\1CB27025.D
Lab Smp Id: 680-87655-a-41-c ms
Inj Date : 27-FEB-2013 19:18
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87655-a-41-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022713.b\a-bFASTPAHi-m.m
Meth Date : 27-Feb-2013 16:31 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
Als bottle: 23 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.792	3.792	(1.000)	1607027	40.0000	
* 6 Acenaphthene-d10	164	4.886	4.880	(1.000)	1296580	40.0000	
* 10 Phenanthrene-d10	188	5.839	5.839	(1.000)	2485135	40.0000	
$ 14 o-Terphenyl	230	6.092	6.092	(1.043)	313046	8.34315	558.0704
* 18 Chrysene-d12	240	7.792	7.792	(1.000)	2708341	40.0000	
* 23 Perylene-d12	264	9.004	9.004	(1.000)	2528332	40.0000	
2 Naphthalene	128	3.810	3.804	(1.005)	359614	8.59560	574.9565
3 2-Methylnaphthalene	142	4.233	4.233	(1.116)	251775	9.02190	603.4713
4 1-Methylnaphthalene	142	4.298	4.298	(1.133)	235831	9.27859	620.6412
5 Acenaphthylene	152	4.798	4.798	(0.982)	430530	8.23602	550.9044
7 Acenaphthene	154	4.904	4.904	(1.004)	253017	7.78724	520.8854
9 Fluorene	166	5.221	5.221	(1.069)	334881	8.14973	545.1321
11 Phenanthrene	178	5.851	5.851	(1.002)	605641	8.42817	563.7572
12 Anthracene	178	5.886	5.886	(1.008)	553286	7.87284	526.6116
13 Carbazole	167	5.992	5.992	(1.026)	506760	8.11179	542.5945

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.698	6.698	(1.147)	704517	8.95257	598.8338
16 Pyrene	202	6.863	6.863	(0.881)	749325	10.2954	688.6529
17 Benzo(a)anthracene	228	7.780	7.780	(0.998)	707502	9.05105	605.4213
19 Chrysene	228	7.810	7.810	(1.002)	649328	8.30060	555.2238
20 Benzo(b)fluoranthene	252	8.645	8.645	(0.960)	646110	9.77848	654.0786
21 Benzo(k)fluoranthene	252	8.668	8.668	(0.963)	571820	8.43611	564.2885
22 Benzo(a)pyrene	252	8.945	8.945	(0.993)	519357	8.09217	541.2822
24 Indeno(1,2,3-cd)pyrene	276	10.215	10.215	(1.135)	451537	7.47883	500.2559(M)
25 Dibenzo(a,h)anthracene	278	10.233	10.233	(1.137)	454370	7.69393	514.6443(M)
26 Benzo(g,h,i)perylene	276	10.580	10.580	(1.175)	477875	7.56637	506.1119

QC Flag Legend

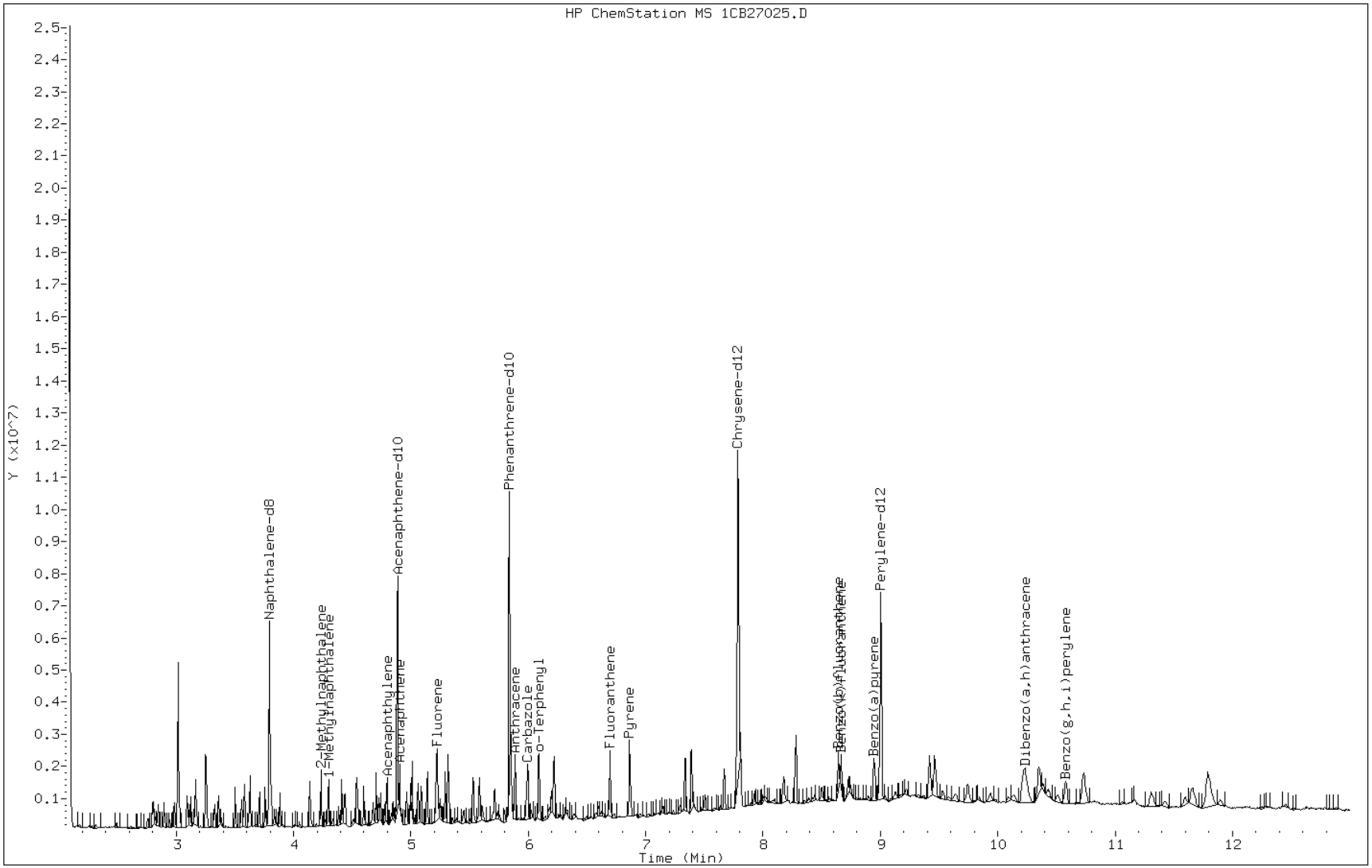
M - Compound response manually integrated.

Data File: 1CB27025.D

Date: 27-FEB-2013 19:18

Client ID: Instrument: BSMC5973.i

Sample Info: 680-87655-a-41-c msd Operator: SCC



Manual Integration Report

Data File: 1CB27025.D
Inj. Date and Time: 27-FEB-2013 19:18
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/01/2013

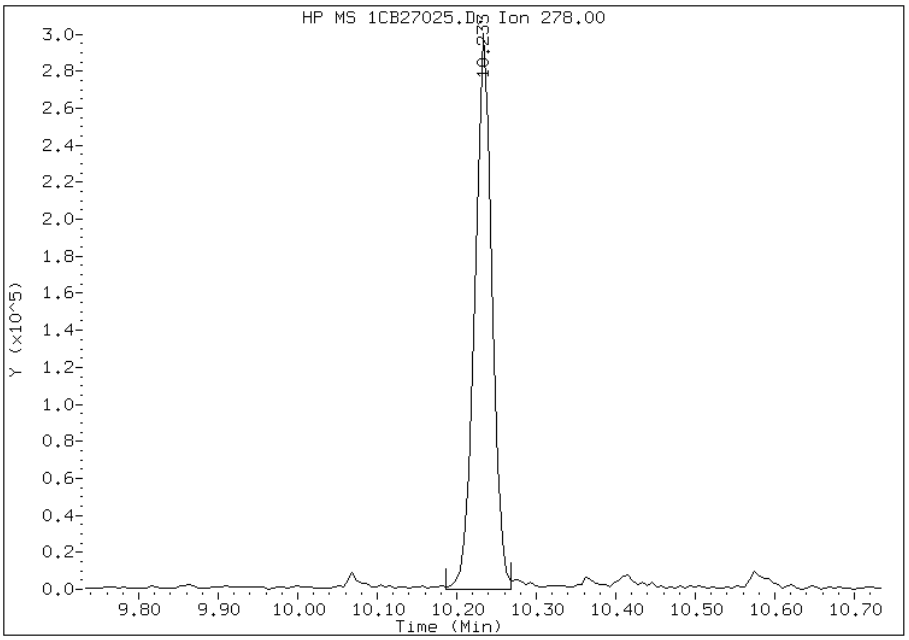
Processing Integration Results

RT: 10.23

Response: 448522

Amount: 8

Conc: 508



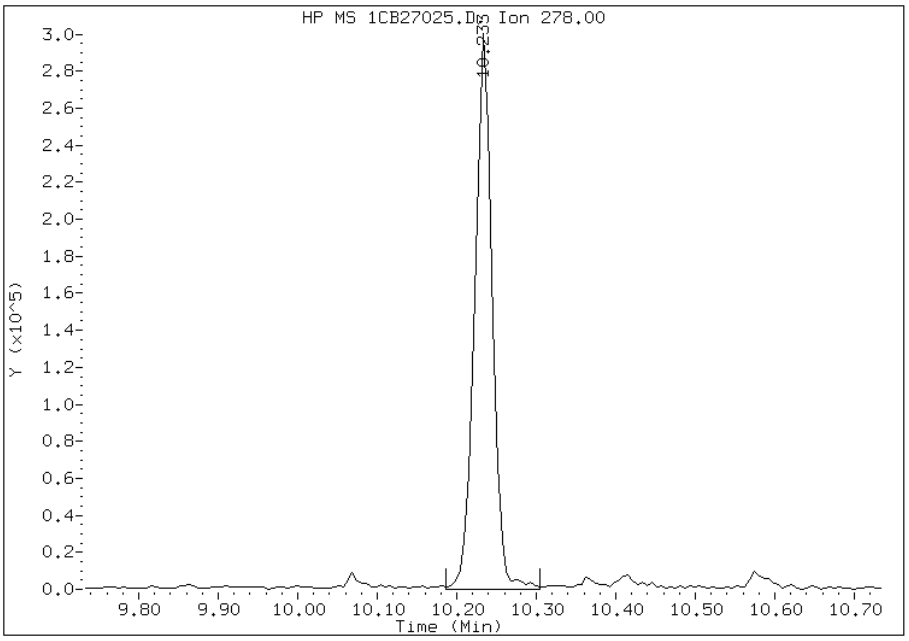
Manual Integration Results

RT: 10.23

Response: 454370

Amount: 8

Conc: 515



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:33
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB27025.D
Inj. Date and Time: 27-FEB-2013 19:18
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/01/2013

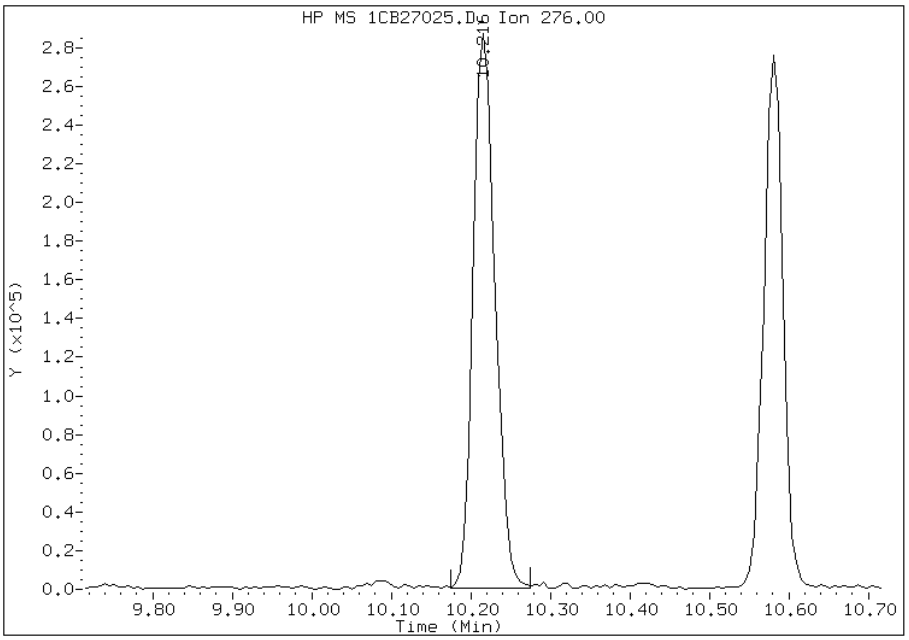
Processing Integration Results

RT: 10.22

Response: 543739

Amount: 9

Conc: 602



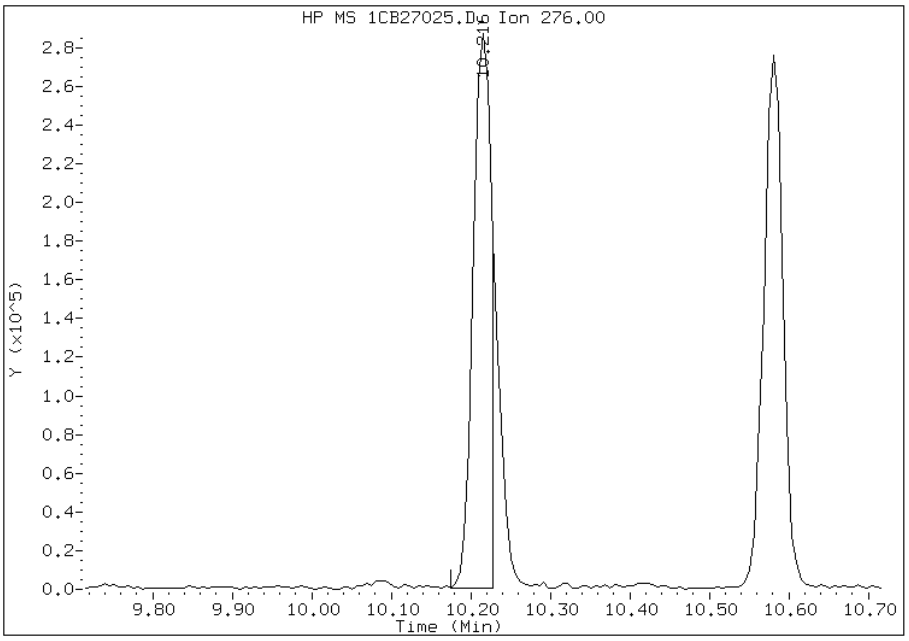
Manual Integration Results

RT: 10.22

Response: 451537

Amount: 7

Conc: 500



Manually Integrated By: cantins
Modification Date: 01-Mar-2013 13:33
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Instrument ID: BSMC5973 Start Date: 02/22/2013 11:04

Analysis Batch Number: 134776 End Date: 02/22/2013 19:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 11:04	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 11:23	1		DB-5MS 250(um)
DFTPP 660-134776/2		02/22/2013 11:41	1	1CB22002.D	DB-5MS 250(um)
IC 660-134776/3		02/22/2013 11:57	1	1CB22003.D	DB-5MS 250(um)
IC 660-134776/4		02/22/2013 12:16	1	1CB22004.D	DB-5MS 250(um)
IC 660-134776/5		02/22/2013 12:34	1	1CB22005.D	DB-5MS 250(um)
IC 660-134776/6		02/22/2013 12:53	1	1CB22006.D	DB-5MS 250(um)
ICIS 660-134776/7		02/22/2013 13:11	1	1CB22007.D	DB-5MS 250(um)
IC 660-134776/8		02/22/2013 13:29	1	1CB22008.D	DB-5MS 250(um)
IC 660-134776/9		02/22/2013 13:48	1	1CB22009.D	DB-5MS 250(um)
ICV 660-134776/10		02/22/2013 14:06	1	1CB22010.D	DB-5MS 250(um)
ZZZZZ		02/22/2013 14:26	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 14:45	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:03	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:21	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:40	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:58	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:16	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:34	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:53	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:11	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:29	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:48	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:06	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:24	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:43	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:01	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:19	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:38	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Instrument ID: BSMC5973 Start Date: 02/27/2013 10:44

Analysis Batch Number: 134903 End Date: 02/27/2013 22:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/27/2013 10:44	1		DB-5MS 250(um)
ZZZZZ		02/27/2013 11:04	1		DB-5MS 250(um)
DFTPP 660-134903/2		02/27/2013 11:24	1	1CB27002.D	DB-5MS 250(um)
CCVIS 660-134903/3		02/27/2013 11:43	1		DB-5MS 250(um)
CCVIS 660-134903/4		02/27/2013 12:15	1		DB-5MS 250(um)
ZZZZZ		02/27/2013 12:40	1		DB-5MS 250(um)
ZZZZZ		02/27/2013 13:01	1		DB-5MS 250(um)
ZZZZZ		02/27/2013 13:22	1		DB-5MS 250(um)
ZZZZZ		02/27/2013 13:42	1		DB-5MS 250(um)
ZZZZZ		02/27/2013 14:03	1		DB-5MS 250(um)
ZZZZZ		02/27/2013 14:23	1		DB-5MS 250(um)
ZZZZZ		02/27/2013 14:44	1		DB-5MS 250(um)
ZZZZZ		02/27/2013 15:17	4		DB-5MS 250(um)
ZZZZZ		02/27/2013 15:37	4		DB-5MS 250(um)
ZZZZZ		02/27/2013 15:56	1		DB-5MS 250(um)
CCVIS 660-134903/16		02/27/2013 16:15	1	1CB27015.D	DB-5MS 250(um)
ZZZZZ		02/27/2013 16:33	1		DB-5MS 250(um)
MB 660-134818/1-A		02/27/2013 16:52	1	1CB27017.D	DB-5MS 250(um)
LCS 660-134818/2-A		02/27/2013 17:10	1	1CB27018.D	DB-5MS 250(um)
ZZZZZ		02/27/2013 17:28	1		DB-5MS 250(um)
ZZZZZ		02/27/2013 17:47	1		DB-5MS 250(um)
ZZZZZ		02/27/2013 18:05	1		DB-5MS 250(um)
ZZZZZ		02/27/2013 18:23	1		DB-5MS 250(um)
680-87655-41	FM0161KKKK-CS	02/27/2013 18:42	1	1CB27023.D	DB-5MS 250(um)
680-87655-41 MS	FM0161KKKK-CS MS	02/27/2013 19:00	1	1CB27024.D	DB-5MS 250(um)
680-87655-41 MSD	FM0161KKKK-CS MSD	02/27/2013 19:18	1	1CB27025.D	DB-5MS 250(um)
680-87655-42	FM0161LLLL-CS	02/27/2013 19:37	1	1CB27026.D	DB-5MS 250(um)
680-87655-43	FM0161LLLL-CSD	02/27/2013 19:55	1	1CB27027.D	DB-5MS 250(um)
680-87655-44	FM0161MMMM-CS	02/27/2013 20:13	1	1CB27028.D	DB-5MS 250(um)
680-87655-45	FM0161NNNN-CS	02/27/2013 20:32	1	1CB27029.D	DB-5MS 250(um)
680-87655-46	FM0161OOOO-CS	02/27/2013 20:50	1	1CB27030.D	DB-5MS 250(um)
680-87655-47	FM0161PPPP-CS	02/27/2013 21:08	1	1CB27031.D	DB-5MS 250(um)
680-87655-48	FM0161PPPP-CSD	02/27/2013 21:27	1	1CB27032.D	DB-5MS 250(um)
680-87655-49	FM0161QQQQ-CS	02/27/2013 21:45	1	1CB27033.D	DB-5MS 250(um)
680-87655-50	FM0161RRRR-CS	02/27/2013 22:04	1	1CB27034.D	DB-5MS 250(um)
680-87655-51	FM0161SSSS-CS	02/27/2013 22:22	1	1CB27035.D	DB-5MS 250(um)
680-87655-52	FM0161TTTT-CS	02/27/2013 22:40	1	1CB27036.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Instrument ID: BSMC5973 Start Date: 02/28/2013 11:03

Analysis Batch Number: 135011 End Date: 02/28/2013 23:32

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/28/2013 11:03	1		DB-5MS 250(um)
ZZZZZ		02/28/2013 11:21	1		DB-5MS 250(um)
DFTPP 660-135011/2		02/28/2013 11:39	1	1CB28002.D	DB-5MS 250(um)
CCVIS 660-135011/3		02/28/2013 11:56	1	1CB28003.D	DB-5MS 250(um)
ZZZZZ		02/28/2013 12:19	1		DB-5MS 250(um)
MB 660-134819/1-A		02/28/2013 16:30	1	1CB28005.D	DB-5MS 250(um)
LCS 660-134819/2-A		02/28/2013 16:48	1	1CB28006.D	DB-5MS 250(um)
680-87655-57	FM0161ADD-GS	02/28/2013 17:06	1	1CB28007.D	DB-5MS 250(um)
680-87655-58	FM0161AEE-GS	02/28/2013 17:25	1	1CB28008.D	DB-5MS 250(um)
680-87655-59	CV0038A-CS-SP	02/28/2013 17:43	4	1CB28009.D	DB-5MS 250(um)
680-87655-60	CV0038B-CS-SP	02/28/2013 18:02	4	1CB28010.D	DB-5MS 250(um)
ZZZZZ		02/28/2013 18:20	4		DB-5MS 250(um)
ZZZZZ		02/28/2013 18:38	4		DB-5MS 250(um)
ZZZZZ		02/28/2013 18:57	4		DB-5MS 250(um)
ZZZZZ		02/28/2013 19:15	1		DB-5MS 250(um)
ZZZZZ		02/28/2013 19:33	1		DB-5MS 250(um)
680-87655-A-65-B MS		02/28/2013 19:52	1	1CB28016.D	DB-5MS 250(um)
680-87655-A-65-C MSD		02/28/2013 20:10	1	1CB28017.D	DB-5MS 250(um)
ZZZZZ		02/28/2013 20:28	4		DB-5MS 250(um)
ZZZZZ		02/28/2013 20:47	4		DB-5MS 250(um)
ZZZZZ		02/28/2013 21:05	4		DB-5MS 250(um)
ZZZZZ		02/28/2013 21:24	4		DB-5MS 250(um)
ZZZZZ		02/28/2013 21:42	4		DB-5MS 250(um)
ZZZZZ		02/28/2013 22:00	4		DB-5MS 250(um)
ZZZZZ		02/28/2013 22:19	4		DB-5MS 250(um)
ZZZZZ		02/28/2013 22:37	4		DB-5MS 250(um)
ZZZZZ		02/28/2013 22:56	4		DB-5MS 250(um)
ZZZZZ		02/28/2013 23:14	4		DB-5MS 250(um)
ZZZZZ		02/28/2013 23:32	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Instrument ID: BSMD5973 Start Date: 02/22/2013 11:10

Analysis Batch Number: 134781 End Date: 02/22/2013 20:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 11:10	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 11:33	1		DB-5MS 250(um)
DFTPP 660-134781/2		02/22/2013 11:57	1	1DB22002.D	DB-5MS 250(um)
IC 660-134781/3		02/22/2013 12:13	1	1DB22003.D	DB-5MS 250(um)
IC 660-134781/4		02/22/2013 12:35	1	1DB22004.D	DB-5MS 250(um)
IC 660-134781/5		02/22/2013 12:58	1	1DB22005.D	DB-5MS 250(um)
IC 660-134781/6		02/22/2013 13:21	1	1DB22006.D	DB-5MS 250(um)
ICIS 660-134781/7		02/22/2013 13:43	1	1DB22007.D	DB-5MS 250(um)
IC 660-134781/8		02/22/2013 14:06	1	1DB22008.D	DB-5MS 250(um)
IC 660-134781/9		02/22/2013 14:28	1	1DB22009.D	DB-5MS 250(um)
ICV 660-134781/10		02/22/2013 14:51	1	1DB22010.D	DB-5MS 250(um)
ZZZZZ		02/22/2013 15:33	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:56	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:21	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:44	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:19	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:42	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:04	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:27	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:49	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:12	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:34	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:57	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 20:19	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 20:42	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Instrument ID: BSMD5973 Start Date: 02/27/2013 10:47

Analysis Batch Number: 134905 End Date: 02/27/2013 18:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/27/2013 10:47	1		DB-5MS 250(um)
ZZZZZ		02/27/2013 11:13	1		DB-5MS 250(um)
DFTPP 660-134905/2		02/27/2013 11:38	1	1DB27002.D	DB-5MS 250(um)
CCVIS 660-134905/3		02/27/2013 11:59	1		DB-5MS 250(um)
ZZZZZ		02/27/2013 12:31	1		DB-5MS 250(um)
ZZZZZ		02/27/2013 12:55	1		DB-5MS 250(um)
CCVIS 660-134905/6		02/27/2013 13:17	1	1DB27006.D	DB-5MS 250(um)
ZZZZZ		02/27/2013 13:40	1		DB-5MS 250(um)
ZZZZZ		02/27/2013 14:21	1		DB-5MS 250(um)
ZZZZZ		02/27/2013 14:46	1		DB-5MS 250(um)
ZZZZZ		02/27/2013 15:11	1		DB-5MS 250(um)
ZZZZZ		02/27/2013 15:35	1		DB-5MS 250(um)
ZZZZZ		02/27/2013 15:58	1		DB-5MS 250(um)
ZZZZZ		02/27/2013 16:20	1		DB-5MS 250(um)
ZZZZZ		02/27/2013 16:43	1		DB-5MS 250(um)
680-87655-53	FM0161AY-GS	02/27/2013 17:05	1	1DB27015.D	DB-5MS 250(um)
680-87655-54	FM0161AZ-GS	02/27/2013 17:28	1	1DB27016.D	DB-5MS 250(um)
680-87655-55	FM0161ABB-GS	02/27/2013 17:50	1	1DB27017.D	DB-5MS 250(um)
680-87655-56	FM0161ACC-GS	02/27/2013 18:13	1	1DB27018.D	DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Batch Number: 134818 Batch Start Date: 02/25/13 14:06 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/26/13 15:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00019	EXLLSURINT 00176		
MB 660-134818/1		3546, 8270C LL		14.97 g	1 mL		1 mL		
LCS 660-134818/2		3546, 8270C LL		15.11 g	1 mL	1 mL	1 mL		
680-87655-A-41	FM0161KKKK-CS	3546, 8270C LL	T	14.95 g	1 mL		1 mL		
680-87655-A-41 MS	FM0161KKKK-CS	3546, 8270C LL	T	14.95 g	1 mL	1 mL	1 mL		
680-87655-A-41 MSD	FM0161KKKK-CS	3546, 8270C LL	T	14.95 g	1 mL	1 mL	1 mL		
680-87655-A-42	FM0161LLLL-CS	3546, 8270C LL	T	15.07 g	1 mL		1 mL		
680-87655-A-43	FM0161LLLL-CSD	3546, 8270C LL	T	14.99 g	1 mL		1 mL		
680-87655-A-44	FM0161MMMM-CS	3546, 8270C LL	T	15.00 g	1 mL		1 mL		
680-87655-A-45	FM0161NNNN-CS	3546, 8270C LL	T	15.01 g	1 mL		1 mL		
680-87655-A-46	FM0161OOOO-CS	3546, 8270C LL	T	15.37 g	1 mL		1 mL		
680-87655-A-47	FM0161PPPP-CS	3546, 8270C LL	T	14.92 g	1 mL		1 mL		
680-87655-A-48	FM0161PPPP-CSD	3546, 8270C LL	T	14.93 g	1 mL		1 mL		
680-87655-A-49	FM0161QQQQ-CS	3546, 8270C LL	T	15.10 g	1 mL		1 mL		
680-87655-A-50	FM0161RRRR-CS	3546, 8270C LL	T	14.90 g	1 mL		1 mL		
680-87655-A-51	FM0161SSSS-CS	3546, 8270C LL	T	15.21 g	1 mL		1 mL		
680-87655-A-52	FM0161TTTT-CS	3546, 8270C LL	T	15.46 g	1 mL		1 mL		
680-87655-A-53	FM0161AY-GS	3546, 8270C LL	T	15.31 g	1 mL		1 mL		
680-87655-A-54	FM0161AZ-GS	3546, 8270C LL	T	15.00 g	1 mL		1 mL		
680-87655-A-55	FM0161ABB-GS	3546, 8270C LL	T	15.23 g	1 mL		1 mL		
680-87655-A-56	FM0161ACC-GS	3546, 8270C LL	T	15.08 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.: 680-87655-3

SDG No.: 68087655-3

Batch Number: 134818 Batch Start Date: 02/25/13 14:06 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/26/13 15:15

Batch Notes	
Acetone Lot #	EX-ACETON BOT_46
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL_54
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL_54
MeCl2/Acetone Lot #	EX-DCM/ACETON_25
Microwave Start Time	17:20 2/20/13
Microwave Stop Time	17:55 2/25/13
Na2SO4 Lot Number	EX-NA2S04A_63
Ottawa Sand Lot #	EX-OTTOWA SAND_11
Person's name who did the prep	SAUREL
SOP Number	TP-EX-014
Person who witnessed spiking	SELF
Surrogate Lot Number	EXLLSURIINT_176
Water Bath ID	TURBOVAP2 #1/2/3/4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

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

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Batch Number: 134819 Batch Start Date: 02/25/13 15:00 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/26/13 17:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00019	EXLLSURINT 00176		
MB 660-134819/1		3546, 8270C LL		15.31 g	1 mL		1 mL		
LCS 660-134819/2		3546, 8270C LL		14.96 g	1 mL	1 mL	1 mL		
680-87655-A-57	FM0161ADD-GS	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-87655-A-58	FM0161AEE-GS	3546, 8270C LL	T	15.44 g	1 mL		1 mL		
680-87655-A-59	CV0038A-CS-SP	3546, 8270C LL	T	15.33 g	1 mL		1 mL		
680-87655-A-60	CV0038B-CS-SP	3546, 8270C LL	T	15.11 g	1 mL		1 mL		
680-87655-A-65 MS		3546, 8270C LL	T	15.26 g	1 mL	1 mL	1 mL		
680-87655-A-65 MSD		3546, 8270C LL	T	15.26 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.: 680-87655-3

SDG No.: 68087655-3

Batch Number: 134819 Batch Start Date: 02/25/13 15:00 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/26/13 17:15

Batch Notes	
Acetone Lot #	EX-ACETON BOT_46
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL_54
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
Glass Wool ID	N.A
MeCL2 Lot #	EX-MC CYCL_54
MeCl2/Acetone Lot #	EX-DCM/ACETON_26
Microwave Start Time	12:30 2/26/13
Microwave Stop Time	13:05 2/26/13
Na2SO4 Lot Number	EX-NA2S04A_63
Ottawa Sand Lot #	EX-OTTOWA SAND_11
Person's name who did the prep	SAUREL
SOP Number	TP-EX-014
Person who witnessed spiking	SELF
Surrogate Lot Number	EXLLSURINT_176
Water Bath ID	TURBOVAP2 #1/2/3/4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

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

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87655-3

SDG No.: 68087655-3

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
FM0161KKKK-CS	680-87655-41
FM0161LLLL-CS	680-87655-42
FM0161LLLL-CSD	680-87655-43
FM0161MMMM-CS	680-87655-44
FM0161NNNN-CS	680-87655-45
FM0161OOOO-CS	680-87655-46
FM0161PPPP-CS	680-87655-47
FM0161PPPP-CSD	680-87655-48
FM0161QQQQ-CS	680-87655-49
FM0161RRRR-CS	680-87655-50
FM0161SSSS-CS	680-87655-51
FM0161TTTT-CS	680-87655-52
FM0161AY-GS	680-87655-53
FM0161AZ-GS	680-87655-54
FM0161ABB-GS	680-87655-55
FM0161ACC-GS	680-87655-56
FM0161ADD-GS	680-87655-57
FM0161AEE-GS	680-87655-58
CV0038A-CS-SP	680-87655-59
CV0038B-CS-SP	680-87655-60

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87655-3

SDG Number: 68087655-3

Matrix: Solid Instrument ID: Moisture

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87655-3

SDG Number: 68087655-3

Matrix: Solid Instrument ID: Moisture

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87655-3

SDG Number: 68087655-3

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: 680-87655-3

SDG Number: 68087655-3

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.: 680-87655-3

SDG No.: 68087655-3

Instrument ID: Moisture Method: Moisture

Start Date: 02/25/2013 11:36 End Date: 02/25/2013 13:44

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCSD 660-134815/12	1	T	11:36	X																			
LCS 660-134815/1	1	T	11:37	X																			
ZZZZZZ			12:03																				
ZZZZZZ			12:09																				
680-87655-50	1	T	12:32	X																			
680-87655-51	1	T	12:47	X																			
ZZZZZZ			12:57																				
ZZZZZZ			12:58																				
ZZZZZZ			13:15																				
ZZZZZZ			13:20																				
ZZZZZZ			13:43																				
ZZZZZZ			13:44																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Instrument ID: NOEQUIP Method: Moisture

Start Date: 02/25/2013 11:38 End Date: 02/25/2013 11:38

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
MB 660-134810/1	1	T	11:38	X																			
ZZZZZZ			11:38																				
ZZZZZZ			11:38																				
680-87655-41	1	T	11:38	X																			
680-87655-41 MS	1	T	11:38	X																			
680-87655-41 MSD	1	T	11:38	X																			
680-87655-42	1	T	11:38	X																			
680-87655-43	1	T	11:38	X																			
680-87655-44	1	T	11:38	X																			
680-87655-45	1	T	11:38	X																			
680-87655-46	1	T	11:38	X																			
680-87655-47	1	T	11:38	X																			
680-87655-48	1	T	11:38	X																			
680-87655-49	1	T	11:38	X																			
680-87655-52	1	T	11:38	X																			
680-87655-53	1	T	11:38	X																			
680-87655-54	1	T	11:38	X																			
680-87655-55	1	T	11:38	X																			
680-87655-56	1	T	11:38	X																			
680-87655-57	1	T	11:38	X																			
680-87655-58	1	T	11:38	X																			
680-87655-59	1	T	11:38	X																			
680-87655-60	1	T	11:38	X																			
ZZZZZZ			11:38																				
ZZZZZZ			11:38																				
ZZZZZZ			11:38																				
ZZZZZZ			11:38																				
ZZZZZZ			11:38																				
680-87655-A-65 MS	1	T	11:38	X																			
680-87655-A-65 MSD	1	T	11:38	X																			
ZZZZZZ			11:38																				
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Instrument ID: NOEQUIP Method: Moisture

Start Date: 02/25/2013 11:38 End Date: 02/25/2013 11:38

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
ZZZZZZ			11:38																				
ZZZZZZ			11:38																				
ZZZZZZ			11:38																				
ZZZZZZ			11:38																				
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ZZZZZZ			11:38																				

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Batch Number: 134810 Batch Start Date: 02/25/13 11:38 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
MB 660-134810/1		Moisture		1	0 g	9.23 g	9.26 g		
680-87655-A-41	FM0161KKKK-CS	Moisture	T	4	0 g	4.37 g	3.29 g		
680-87655-A-41 MS	FM0161KKKK-CS	Moisture	T	4	0 g	4.37 g	3.29 g		
680-87655-A-41 MSD	FM0161KKKK-CS	Moisture	T	4	0 g	4.37 g	3.29 g		
680-87655-A-42	FM0161LLLL-CS	Moisture	T	5	0 g	4.84 g	3.66 g		
680-87655-A-43	FM0161LLLL-CSD	Moisture	T	6	0 g	4.36 g	3.17 g		
680-87655-A-44	FM0161MMMM-CS	Moisture	T	7	0 g	4.66 g	3.67 g		
680-87655-A-45	FM0161NNNN-CS	Moisture	T	8	0 g	4.25 g	3.22 g		
680-87655-A-46	FM0161OOOO-CS	Moisture	T	9	0 g	4.55 g	3.57 g		
680-87655-A-47	FM0161PPPP-CS	Moisture	T	10	0 g	4.56 g	3.37 g		
680-87655-A-48	FM0161PPPP-CSD	Moisture	T	11	0 g	4.35 g	3.45 g		
680-87655-A-49	FM0161QQQQ-CS	Moisture	T	12	0 g	4.43 g	3.46 g		
680-87655-A-52	FM0161TTTT-CS	Moisture	T	13	0 g	4.90 g	3.59 g		
680-87655-A-53	FM0161AY-GS	Moisture	T	14	0 g	4.23 g	2.95 g		
680-87655-A-54	FM0161AZ-GS	Moisture	T	15	0 g	4.92 g	4.09 g		
680-87655-A-55	FM0161ABB-GS	Moisture	T	16	0 g	4.89 g	3.32 g		
680-87655-A-56	FM0161ACC-GS	Moisture	T	17	0 g	4.57 g	3.36 g		
680-87655-A-57	FM0161ADD-GS	Moisture	T	18	0 g	4.85 g	4.00 g		
680-87655-A-58	FM0161AEE-GS	Moisture	T	19	0 g	4.71 g	3.36 g		
680-87655-A-59	CV0038A-CS-SP	Moisture	T	20	0 g	4.72 g	3.35 g		
680-87655-A-60	CV0038B-CS-SP	Moisture	T	21	0 g	5.45 g	4.36 g		
680-87655-A-65 MS		Moisture	T	26	0 g	4.52 g	3.83 g		
680-87655-A-65 MSD		Moisture	T	26	0 g	4.52 g	3.83 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	2.25.13

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.: 680-87655-3

SDG No.: 68087655-3

Batch Number: 134810 Batch Start Date: 02/25/13 11:38 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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87655-3

SDG No.: 68087655-3

Batch Number: 134815 Batch Start Date: 02/25/13 11:36 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-134815/1		Moisture		0 g	10.032 g	9.017 g			
680-87655-A-50	FM0161RRRR-CS	Moisture	T	0 g	4.191 g	3.192 g			
680-87655-A-51	FM0161SSSS-CS	Moisture	T	0 g	4.754 g	3.575 g			
LCSD 660-134815/12		Moisture		0 g	10.02 g	9.02 g			

Batch Notes	
Oven ID	HB43-1, HB43-2

Basis	Basis Description
T	Total/NA

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

Shipping and Receiving Documents

Serial Number 59550

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

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

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	2005748-1356	AL

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
R. Henderson		

CLIENT NAME	CLIENT E-MAIL
OTIE	LKrebs@otie.com

CLIENT ADDRESS

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 4 OF 7

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, ...)	LL PAH 8270									REMARKS
								PRESERVATIVE									
								NUMBER OF CONTAINERS SUBMITTED									
2/19/13	1140	CV0276A-CS-SP	C		X			X									
	1151	CV0276B-CS-SP	C		X			X									
	1249	FM0161IIII-CS	C		X			X									
	1253	FM0161JJJJ-CS	C		X			X									
	1258	FM0161KKKK-CS	C		X			X									
	1306	FM0161LLL-CS	C		X			X									
	1308	FM0161LLLL-CSD	C		X			X									
	1322	FM0161MMMM-CS	C		X			X									
	1338	FM0161NNNN-CS	C		X			X									
	1345	FMØ1610000-CS	C		X			X									
	1346	FM0161PPPP-CS	C		X			X									
	1348	FM0161PPPP-CSD	C		X			X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/20/13	1600						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	02/21/13	0920	YES ○ NO ○		87655	28/24 °C

TAL8240-680 (1008)

13/05/2013

Serial Number 59553

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

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

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal	PROJECT NO.: 2005148-1356	PROJECT LOCATION (STATE): AL	PAGE 5 OF 7
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY ○
CLIENT (SITE) PM: R. Henderson	CLIENT PHONE	CLIENT FAX	DATE DUE
CLIENT NAME: OTIE	CLIENT E-MAIL: L Krebs@otie.com		EXPEDITED REPORT DELIVERY (SURCHARGE) ○
CLIENT ADDRESS			DATE DUE
COMPANY CONTRACTING THIS WORK (if applicable)			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, ...)	LL PAH 8270										REMARKS
								PRESERVATIVE										
								NUMBER OF CONTAINERS SUBMITTED										
2/19/13	1350	FM0161QQQQ-CS	C		X			X										
	1357	FM0161RRRR-CS	C		X			X										
	1401	FM0161SSSS-CS	C		X			X										
	1407	FM0161TTTT-CS	C		X			X										
	1311	FM0161AY-GS	G		X			X										
	1330	FM0161AZ-GS	G		X			X										
	1332	FM0161ABB-GS	G		X			X										
	1349	FM0161ACC-GS	G		X			X										
	1358	FM0161ADD-GS	G		X			X										
	1405	FM0161AEE-GS	G		X			X										
	1333	CV0038A-CS-SP	C		X			X										
	1351	CV0038B-CS-SP	C		X			X	X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/20/13	1600						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	02/21/13	0920	YES ○ NO ○		680 87655	2.8/2.4 °C

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87655-3
SDG Number: 68087655-3

Login Number: 87655
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

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

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87655-3
SDG Number: 68087655-3

Login Number: 87655
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 02/22/13 01:20 PM

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

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87655-3
SDG Number: 68087655-3

Login Number: 87655
List Number: 2
Creator: Edwards, Erricka

List Source: TestAmerica Tampa
List Creation: 02/23/13 11:01 AM

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