ANALYTICAL REPORT

Job Number: 680-88766-1

SDG Number: 68088766-1

Job Description: 35th Avenue Superfund Site

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

Attention: Ms. Limari F Krebs

Approved for release.
Bernard Kirkland
Project Manager I
4/8/2013 9:04 AM

Designee for
Lisa Harvey
Project Manager II
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04/08/2013

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88766-1

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

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

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

RECEIPT

The samples were received on 03/28/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.4 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0613A-CS (680-88766-1), CV0613A-CSD (680-88766-2), CV0613B-CS (680-88766-3), CV0613C-CS (680-88766-4), CV0613D-CS (680-88766-5), CV0613E-CS (680-88766-6), CV0613F-CS (680-88766-7), CV0613G-CS (680-88766-8), CV0613H-CS (680-88766-9), CV0613I-CS (680-88766-10), CV0613J-CS (680-88766-11), CV0613K-CS (680-88766-12), CV0613K-CSD (680-88766-13), CV0613AB-GS (680-88766-14), CV0613AC-GS (680-88766-15), CV0610A-CS (680-88766-16), CV0610B-CS (680-88766-17), CV0610AB-GS (680-88766-18), CV0506A-CS (680-88766-19) and CV0506B-CS (680-88766-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/29/2013, 04/01/2013 and 04/02/2013 and analyzed on 04/02/2013 and 04/03/2013.

Samples CV0613A-CS (680-88766-1)[4X], CV0613B-CS (680-88766-3)[4X], CV0613D-CS (680-88766-5)[4X], CV0613E-CS (680-88766-6)[4X], CV0613H-CS (680-88766-9)[4X], CV0613J-CS (680-88766-11)[4X], CV0613AC-GS (680-88766-15)[4X], CV0610A-CS (680-88766-16)[4X], CV0610B-CS (680-88766-17)[4X], CV0610AB-GS (680-88766-18)[4X] and CV0506A-CS (680-88766-19)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria low for the MS/MSD of sample CV0613E-CS (680-88766-6) in batch 660-136118.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88766-1
Sdg Number: 68088766-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-88766-1	CV0613A-CS	Solid	03/25/2013 1311	03/28/2013 0937
680-88766-2	CV0613A-CSD	Solid	03/25/2013 1315	03/28/2013 0937
680-88766-3	CV0613B-CS	Solid	03/25/2013 1320	03/28/2013 0937
680-88766-4	CV0613C-CS	Solid	03/25/2013 1325	03/28/2013 0937
680-88766-5	CV0613D-CS	Solid	03/25/2013 1330	03/28/2013 0937
680-88766-6	CV0613E-CS	Solid	03/25/2013 1343	03/28/2013 0937
680-88766-6MS	CV0613E-CS	Solid	03/25/2013 1343	03/28/2013 0937
680-88766-6MSD	CV0613E-CS	Solid	03/25/2013 1343	03/28/2013 0937
680-88766-7	CV0613F-CS	Solid	03/25/2013 1348	03/28/2013 0937
680-88766-8	CV0613G-CS	Solid	03/25/2013 1400	03/28/2013 0937
680-88766-9	CV0613H-CS	Solid	03/25/2013 1407	03/28/2013 0937
680-88766-10	CV0613I-CS	Solid	03/25/2013 1417	03/28/2013 0937
680-88766-11	CV0613J-CS	Solid	03/25/2013 1425	03/28/2013 0937
680-88766-12	CV0613K-CS	Solid	03/25/2013 1426	03/28/2013 0937
680-88766-13	CV0613K-CSD	Solid	03/25/2013 1428	03/28/2013 0937
680-88766-14	CV0613AB-GS	Solid	03/25/2013 1332	03/28/2013 0937
680-88766-15	CV0613AC-GS	Solid	03/25/2013 1334	03/28/2013 0937
680-88766-16	CV0610A-CS	Solid	03/25/2013 1440	03/28/2013 0937
680-88766-17	CV0610B-CS	Solid	03/25/2013 1442	03/28/2013 0937
680-88766-18	CV0610AB-GS	Solid	03/25/2013 1439	03/28/2013 0937
680-88766-19	CV0506A-CS	Solid	03/25/2013 1506	03/28/2013 0937
680-88766-20	CV0506B-CS	Solid	03/25/2013 1515	03/28/2013 0937

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88766-1
Sdg Number: 68088766-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Organic Compounds by GCMS - Low Levels	TAL TAM	SW846 8270C LL	
Microwave Extraction	TAL TAM		SW846 3546
Percent Moisture	TAL TAM	EPA Moisture	

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88766-1
Sdg Number: 68088766-1

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

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88766-1
Sdg Number: 68088766-1

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	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: 680-88766-1
Sdg Number: 68088766-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-135924					
LCS 660-135924/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135924/1-A	Method Blank	T	Solid	3546	
680-88632-A-21-B MS	Matrix Spike	T	Solid	3546	
680-88632-A-21-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88766-1	CV0613A-CS	T	Solid	3546	
680-88766-2	CV0613A-CSD	T	Solid	3546	
680-88766-3	CV0613B-CS	T	Solid	3546	
680-88766-4	CV0613C-CS	T	Solid	3546	
680-88766-5	CV0613D-CS	T	Solid	3546	
680-88766-7	CV0613F-CS	T	Solid	3546	
680-88766-8	CV0613G-CS	T	Solid	3546	
680-88766-9	CV0613H-CS	T	Solid	3546	
680-88766-10	CV0613I-CS	T	Solid	3546	
680-88766-11	CV0613J-CS	T	Solid	3546	
680-88766-12	CV0613K-CS	T	Solid	3546	
680-88766-13	CV0613K-CSD	T	Solid	3546	
680-88766-14	CV0613AB-GS	T	Solid	3546	
680-88766-15	CV0613AC-GS	T	Solid	3546	
680-88766-16	CV0610A-CS	T	Solid	3546	
680-88766-18	CV0610AB-GS	T	Solid	3546	
680-88766-19	CV0506A-CS	T	Solid	3546	
Prep Batch: 660-136026					
LCS 660-136026/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136026/1-A	Method Blank	T	Solid	3546	
680-88766-6	CV0613E-CS	T	Solid	3546	
680-88766-6MS	Matrix Spike	T	Solid	3546	
680-88766-6MSD	Matrix Spike Duplicate	T	Solid	3546	
Prep Batch: 660-136063					
LCS 660-136063/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136063/1-A	Method Blank	T	Solid	3546	
680-88766-17	CV0610B-CS	T	Solid	3546	
680-88766-20	CV0506B-CS	T	Solid	3546	
680-88766-A-21-E MS	Matrix Spike	T	Solid	3546	
680-88766-A-21-F MSD	Matrix Spike Duplicate	T	Solid	3546	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88766-1
Sdg Number: 68088766-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-136079					
LCS 660-135924/2-A	Lab Control Sample	T	Solid	8270C LL	660-135924
MB 660-135924/1-A	Method Blank	T	Solid	8270C LL	660-135924
680-88632-A-21-B MS	Matrix Spike	T	Solid	8270C LL	660-135924
680-88632-A-21-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135924
680-88766-1	CV0613A-CS	T	Solid	8270C LL	660-135924
680-88766-2	CV0613A-CSD	T	Solid	8270C LL	660-135924
680-88766-3	CV0613B-CS	T	Solid	8270C LL	660-135924
680-88766-4	CV0613C-CS	T	Solid	8270C LL	660-135924
680-88766-5	CV0613D-CS	T	Solid	8270C LL	660-135924
680-88766-7	CV0613F-CS	T	Solid	8270C LL	660-135924
680-88766-8	CV0613G-CS	T	Solid	8270C LL	660-135924
680-88766-9	CV0613H-CS	T	Solid	8270C LL	660-135924
680-88766-10	CV0613I-CS	T	Solid	8270C LL	660-135924
Analysis Batch:660-136081					
LCS 660-136063/2-A	Lab Control Sample	T	Solid	8270C LL	660-136063
MB 660-136063/1-A	Method Blank	T	Solid	8270C LL	660-136063
680-88766-11	CV0613J-CS	T	Solid	8270C LL	660-135924
680-88766-12	CV0613K-CS	T	Solid	8270C LL	660-135924
680-88766-13	CV0613K-CSD	T	Solid	8270C LL	660-135924
680-88766-14	CV0613AB-GS	T	Solid	8270C LL	660-135924
680-88766-15	CV0613AC-GS	T	Solid	8270C LL	660-135924
680-88766-16	CV0610A-CS	T	Solid	8270C LL	660-135924
680-88766-17	CV0610B-CS	T	Solid	8270C LL	660-136063
680-88766-18	CV0610AB-GS	T	Solid	8270C LL	660-135924
680-88766-19	CV0506A-CS	T	Solid	8270C LL	660-135924
680-88766-20	CV0506B-CS	T	Solid	8270C LL	660-136063
680-88766-A-21-E MS	Matrix Spike	T	Solid	8270C LL	660-136063
680-88766-A-21-F MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136063
Analysis Batch:660-136118					
LCS 660-136026/2-A	Lab Control Sample	T	Solid	8270C LL	660-136026
MB 660-136026/1-A	Method Blank	T	Solid	8270C LL	660-136026
680-88766-6	CV0613E-CS	T	Solid	8270C LL	660-136026
680-88766-6MS	Matrix Spike	T	Solid	8270C LL	660-136026
680-88766-6MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136026

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88766-1
Sdg Number: 68088766-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-135922					
680-88766-6	CV0613E-CS	T	Solid	Moisture	
680-88766-6MS	Matrix Spike	T	Solid	Moisture	
680-88766-6MSD	Matrix Spike Duplicate	T	Solid	Moisture	
Analysis Batch:660-135931					
680-88766-7	CV0613F-CS	T	Solid	Moisture	
680-88766-8	CV0613G-CS	T	Solid	Moisture	
680-88766-9	CV0613H-CS	T	Solid	Moisture	
680-88766-10	CV0613I-CS	T	Solid	Moisture	
680-88766-11	CV0613J-CS	T	Solid	Moisture	
680-88766-12	CV0613K-CS	T	Solid	Moisture	
680-88766-13	CV0613K-CSD	T	Solid	Moisture	
680-88766-14	CV0613AB-GS	T	Solid	Moisture	
680-88766-15	CV0613AC-GS	T	Solid	Moisture	
680-88766-16	CV0610A-CS	T	Solid	Moisture	
680-88766-20	CV0506B-CS	T	Solid	Moisture	
Analysis Batch:660-135936					
LCS 660-135936/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-135936/21	Lab Control Sample Duplicate	T	Solid	Moisture	
640-42916-A-9 MS	Matrix Spike	T	Solid	Moisture	
640-42916-A-9 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88766-1	CV0613A-CS	T	Solid	Moisture	
680-88766-2	CV0613A-CSD	T	Solid	Moisture	
680-88766-3	CV0613B-CS	T	Solid	Moisture	
680-88766-4	CV0613C-CS	T	Solid	Moisture	
680-88766-5	CV0613D-CS	T	Solid	Moisture	
Analysis Batch:660-135940					
LCS 660-135940/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-135940/7	Lab Control Sample Duplicate	T	Solid	Moisture	
680-88766-17	CV0610B-CS	T	Solid	Moisture	
680-88766-18	CV0610AB-GS	T	Solid	Moisture	
680-88766-19	CV0506A-CS	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Instrument ID: BSMC5973 Analysis Batch Number: 136048

Lab Sample ID: IC 660-136048/5 Client Sample ID:

Date Analyzed: 04/02/13 13:26 Lab File ID: 1CD02005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	10.09	Baseline Event	cantins	04/02/13 15:44

Lab Sample ID: IC 660-136048/6 Client Sample ID:

Date Analyzed: 04/02/13 13:44 Lab File ID: 1CD02006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/02/13 15:45

Lab Sample ID: IC 660-136048/7 Client Sample ID:

Date Analyzed: 04/02/13 14:02 Lab File ID: 1CD02007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/02/13 15:48

Lab Sample ID: IC 660-136048/8 Client Sample ID:

Date Analyzed: 04/02/13 14:20 Lab File ID: 1CD02008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/02/13 15:49

Lab Sample ID: ICIS 660-136048/9 Client Sample ID:

Date Analyzed: 04/02/13 14:39 Lab File ID: 1CD02009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/02/13 15:39

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Instrument ID: BSMC5973 Analysis Batch Number: 136048

Lab Sample ID: IC 660-136048/10 Client Sample ID:

Date Analyzed: 04/02/13 14:57 Lab File ID: 1CD02010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/02/13 15:50

Lab Sample ID: IC 660-136048/11 Client Sample ID:

Date Analyzed: 04/02/13 15:15 Lab File ID: 1CD02011.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/02/13 15:51

Lab Sample ID: ICV 660-136048/12 Client Sample ID:

Date Analyzed: 04/02/13 15:34 Lab File ID: 1CD02012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/02/13 15:57

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Instrument ID: BSMC5973 Analysis Batch Number: 136079

Lab Sample ID: CCVIS 660-136079/3 Client Sample ID:

Date Analyzed: 04/02/13 16:40 Lab File ID: 1CD02015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/02/13 16:55

Lab Sample ID: LCS 660-135924/2-A Client Sample ID:

Date Analyzed: 04/02/13 20:19 Lab File ID: 1CD02027.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/03/13 12:30

Lab Sample ID: 680-88632-A-21-B MS Client Sample ID:

Date Analyzed: 04/02/13 20:56 Lab File ID: 1CD02029.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/03/13 12:34

Lab Sample ID: 680-88632-A-21-C MSD Client Sample ID:

Date Analyzed: 04/02/13 21:14 Lab File ID: 1CD02030.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/03/13 12:35

Lab Sample ID: 680-88766-1 Client Sample ID: CV0613A-CS

Date Analyzed: 04/02/13 21:51 Lab File ID: 1CD02032.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.52	Split Peak	cantins	04/03/13 14:55
Benzo[k]fluoranthene	8.53	Baseline Event	cantins	04/03/13 14:55
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/03/13 14:55

8270C LL

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Instrument ID: BSMC5973 Analysis Batch Number: 136079

Lab Sample ID: 680-88766-2 Client Sample ID: CV0613A-CSD

Date Analyzed: 04/02/13 22:09 Lab File ID: 1CD02033.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.52	Split Peak	cantins	04/03/13 14:56
Benzo[k]fluoranthene	8.53	Baseline Event	cantins	04/03/13 14:56
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/03/13 14:56

Lab Sample ID: 680-88766-3 Client Sample ID: CV0613B-CS

Date Analyzed: 04/02/13 22:27 Lab File ID: 1CD02034.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.52	Split Peak	cantins	04/03/13 14:57
Benzo[k]fluoranthene	8.54	Baseline Event	cantins	04/03/13 14:57
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/03/13 14:57

Lab Sample ID: 680-88766-4 Client Sample ID: CV0613C-CS

Date Analyzed: 04/02/13 22:46 Lab File ID: 1CD02035.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.52	Split Peak	cantins	04/03/13 14:58
Benzo[k]fluoranthene	8.54	Baseline Event	cantins	04/03/13 14:58
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/03/13 14:58

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Instrument ID: BSMC5973 Analysis Batch Number: 136079

Lab Sample ID: 680-88766-5 Client Sample ID: CV0613D-CS

Date Analyzed: 04/02/13 23:04 Lab File ID: 1CD02036.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.52	Split Peak	cantins	04/03/13 15:03
Benzo[k]fluoranthene	8.53	Baseline Event	cantins	04/03/13 15:03
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/03/13 15:05
Benzo[g,h,i]perylene	10.36	Baseline Event	cantins	04/03/13 15:05

Lab Sample ID: 680-88766-7 Client Sample ID: CV0613F-CS

Date Analyzed: 04/02/13 23:22 Lab File ID: 1CD02037.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.52	Split Peak	cantins	04/03/13 15:09
Benzo[k]fluoranthene	8.54	Baseline Event	cantins	04/03/13 15:08
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/03/13 15:08
Dibenz(a,h)anthracene	10.03	Baseline Event	cantins	04/03/13 15:08
Benzo[g,h,i]perylene	10.36	Baseline Event	cantins	04/03/13 15:07

Lab Sample ID: 680-88766-8 Client Sample ID: CV0613G-CS

Date Analyzed: 04/02/13 23:41 Lab File ID: 1CD02038.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.52	Split Peak	cantins	04/03/13 15:09
Benzo[k]fluoranthene	8.53	Baseline Event	cantins	04/03/13 15:09
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/03/13 15:10

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Instrument ID: BSMC5973 Analysis Batch Number: 136079

Lab Sample ID: 680-88766-9 Client Sample ID: CV0613H-CS

Date Analyzed: 04/02/13 23:59 Lab File ID: 1CD02039.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.52	Split Peak	cantins	04/03/13 15:10
Benzo[k]fluoranthene	8.54	Baseline Event	cantins	04/03/13 15:10
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/03/13 15:11

Lab Sample ID: 680-88766-10 Client Sample ID: CV0613I-CS

Date Analyzed: 04/03/13 00:17 Lab File ID: 1CD02040.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.52	Split Peak	cantins	04/03/13 15:11
Benzo[k]fluoranthene	8.53	Baseline Event	cantins	04/03/13 15:12
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/03/13 15:12

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Instrument ID: BSMC5973 Analysis Batch Number: 136081

Lab Sample ID: CCVIS 660-136081/3 Client Sample ID:

Date Analyzed: 04/03/13 11:45 Lab File ID: 1CD03003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.99	Split Peak	cantins	04/03/13 11:59

Lab Sample ID: 680-88766-11 Client Sample ID: CV0613J-CS

Date Analyzed: 04/03/13 12:59 Lab File ID: 1CD03007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.50	Split Peak	cantins	04/03/13 15:16
Benzo[k]fluoranthene	8.53	Baseline Event	cantins	04/03/13 15:17
Indeno[1,2,3-cd]pyrene	9.99	Split Peak	cantins	04/03/13 15:18
Dibenz(a,h)anthracene	10.00	Baseline Event	cantins	04/03/13 15:17

Lab Sample ID: 680-88766-12 Client Sample ID: CV0613K-CS

Date Analyzed: 04/03/13 13:17 Lab File ID: 1CD03008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.51	Split Peak	cantins	04/03/13 15:19
Benzo[k]fluoranthene	8.52	Baseline Event	cantins	04/03/13 15:19
Indeno[1,2,3-cd]pyrene	9.99	Split Peak	cantins	04/03/13 15:19

Lab Sample ID: 680-88766-13 Client Sample ID: CV0613K-CSD

Date Analyzed: 04/03/13 13:35 Lab File ID: 1CD03009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Methylnaphthalene	4.15	Baseline Event	cantins	04/03/13 15:27
Benzo[b]fluoranthene	8.51	Split Peak	cantins	04/03/13 15:20
Benzo[k]fluoranthene	8.53	Baseline Event	cantins	04/03/13 15:20
Indeno[1,2,3-cd]pyrene	9.99	Split Peak	cantins	04/03/13 15:21

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Instrument ID: BSMC5973 Analysis Batch Number: 136081

Lab Sample ID: 680-88766-14 Client Sample ID: CV0613AB-GS

Date Analyzed: 04/03/13 13:54 Lab File ID: 1CD03010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.51	Split Peak	cantins	04/03/13 15:21
Benzo[k]fluoranthene	8.52	Baseline Event	cantins	04/03/13 15:21
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/03/13 15:22

Lab Sample ID: 680-88766-15 Client Sample ID: CV0613AC-GS

Date Analyzed: 04/03/13 14:12 Lab File ID: 1CD03011.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.51	Split Peak	cantins	04/03/13 15:22
Benzo[k]fluoranthene	8.53	Baseline Event	cantins	04/03/13 15:22
Indeno[1,2,3-cd]pyrene	9.99	Split Peak	cantins	04/03/13 15:23
Dibenz(a,h)anthracene	10.01	Baseline Event	cantins	04/03/13 15:23
Benzo[g,h,i]perylene	10.33	Baseline Event	cantins	04/03/13 15:23

Lab Sample ID: 680-88766-16 Client Sample ID: CV0610A-CS

Date Analyzed: 04/03/13 14:30 Lab File ID: 1CD03012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Methylnaphthalene	4.15	Baseline Event	cantins	04/03/13 15:24
Benzo[b]fluoranthene	8.51	Split Peak	cantins	04/03/13 15:24
Benzo[k]fluoranthene	8.52	Baseline Event	cantins	04/03/13 15:24
Indeno[1,2,3-cd]pyrene	9.99	Split Peak	cantins	04/03/13 15:24

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Instrument ID: BSMC5973 Analysis Batch Number: 136081

Lab Sample ID: 680-88766-18 Client Sample ID: CV0610AB-GS

Date Analyzed: 04/03/13 14:49 Lab File ID: 1CD03013.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.51	Split Peak	cantins	04/03/13 15:25
Benzo[k]fluoranthene	8.52	Baseline Event	cantins	04/03/13 15:25
Dibenz(a,h)anthracene	10.00	Baseline Event	cantins	04/03/13 15:25
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/03/13 15:26

Lab Sample ID: 680-88766-19 Client Sample ID: CV0506A-CS

Date Analyzed: 04/03/13 15:07 Lab File ID: 1CD03014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.51	Split Peak	cantins	04/03/13 15:29
Benzo[k]fluoranthene	8.52	Baseline Event	cantins	04/03/13 15:29
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/03/13 15:29

Lab Sample ID: LCS 660-136063/2-A Client Sample ID:

Date Analyzed: 04/03/13 15:52 Lab File ID: 1CD03016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.99	Split Peak	cantins	04/04/13 15:32

Lab Sample ID: 680-88766-A-21-E MS Client Sample ID:

Date Analyzed: 04/03/13 16:29 Lab File ID: 1CD03018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.99	Split Peak	cantins	04/04/13 15:34
Dibenz(a,h)anthracene	10.01	Baseline Event	cantins	04/04/13 15:34
Benzo[g,h,i]perylene	10.34	Baseline Event	cantins	04/04/13 15:34

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Instrument ID: BSMC5973 Analysis Batch Number: 136081

Lab Sample ID: 680-88766-A-21-F MSD Client Sample ID:

Date Analyzed: 04/03/13 16:47 Lab File ID: 1CD03019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.99	Baseline Event	cantins	04/04/13 15:35

Lab Sample ID: 680-88766-17 Client Sample ID: CV0610B-CS

Date Analyzed: 04/03/13 18:00 Lab File ID: 1CD03023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.51	Split Peak	cantins	04/05/13 09:50
Benzo[k]fluoranthene	8.52	Baseline Event	cantins	04/05/13 09:50
Indeno[1,2,3-cd]pyrene	9.99	Split Peak	cantins	04/05/13 09:51
Dibenz(a,h)anthracene	10.01	Baseline Event	cantins	04/05/13 09:51
Benzo[g,h,i]perylene	10.33	Baseline Event	cantins	04/05/13 09:51

Lab Sample ID: 680-88766-20 Client Sample ID: CV0506B-CS

Date Analyzed: 04/03/13 18:19 Lab File ID: 1CD03024.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.51	Split Peak	cantins	04/05/13 09:52
Benzo[k]fluoranthene	8.53	Baseline Event	cantins	04/05/13 09:52
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/05/13 09:52
Benzo[g,h,i]perylene	10.34	Baseline Event	cantins	04/05/13 09:52

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

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.: 680-88766-1

SDG No.: 68088766-1

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.: 680-88766-1

SDG No.: 68088766-1

Instrument ID: BSMD5973 Analysis Batch Number: 136118

Lab Sample ID: CCVIS 660-136118/3 Client Sample ID:

Date Analyzed: 04/03/13 11:55 Lab File ID: 1DD03003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.79	Split Peak	cantins	04/03/13 12:17

Lab Sample ID: LCS 660-136026/2-A Client Sample ID:

Date Analyzed: 04/03/13 13:07 Lab File ID: 1DD03006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.78	Split Peak	cantins	04/04/13 11:47

Lab Sample ID: 680-88766-6 Client Sample ID: CV0613E-CS

Date Analyzed: 04/03/13 13:30 Lab File ID: 1DD03007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.78	Split Peak	cantins	04/04/13 11:55

Lab Sample ID: 680-88766-6 MS Client Sample ID: CV0613E-CS MS

Date Analyzed: 04/03/13 13:52 Lab File ID: 1DD03008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.77	Split Peak	cantins	04/04/13 11:56

Lab Sample ID: 680-88766-6 MSD Client Sample ID: CV0613E-CS MSD

Date Analyzed: 04/03/13 14:15 Lab File ID: 1DD03009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.78	Split Peak	cantins	04/04/13 11:57

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.: 680-88766-1

SDG No.: 68088766-1

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0613A-CS	680-88766-1	96
CV0613A-CSD	680-88766-2	58
CV0613B-CS	680-88766-3	95
CV0613C-CS	680-88766-4	54
CV0613D-CS	680-88766-5	90
CV0613E-CS	680-88766-6	71
CV0613F-CS	680-88766-7	46
CV0613G-CS	680-88766-8	49
CV0613H-CS	680-88766-9	97
CV0613I-CS	680-88766-10	56
CV0613J-CS	680-88766-11	84
CV0613K-CS	680-88766-12	57
CV0613K-CSD	680-88766-13	44
CV0613AB-GS	680-88766-14	49
CV0613AC-GS	680-88766-15	84
CV0610A-CS	680-88766-16	82
CV0610B-CS	680-88766-17	115
CV0610AB-GS	680-88766-18	88
CV0506A-CS	680-88766-19	98
CV0506B-CS	680-88766-20	66
	MB 660-135924/1-A	62
	MB 660-136026/1-A	58
	MB 660-136063/1-A	80
	LCS 660-135924/2-A	66
	LCS 660-136026/2-A	64
	LCS 660-136063/2-A	72
	680-88632-A-21-B MS	62
	680-88766-A-21-E MS	92
CV0613E-CS MS	680-88766-6 MS	69
	680-88632-A-21-C MSD	64

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
	680-88766-A-21-F MSD	97
CV0613E-CS MSD	680-88766-6 MSD	66

	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.: 680-88766-1

SDG No.: 68088766-1

Matrix: Solid Level: Low Lab File ID: 1CD02027.D

Lab ID: LCS 660-135924/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	666	412	62	39-130	
Acenaphthylene	666	436	65	38-130	
Anthracene	666	447	67	37-130	
Benzo[a]anthracene	666	479	72	40-130	
Benzo[a]pyrene	666	454	68	49-130	
Benzo[b]fluoranthene	666	456	68	37-130	
Benzo[g,h,i]perylene	666	425	64	32-130	
Benzo[k]fluoranthene	666	469	70	32-130	
Chrysene	666	447	67	41-130	
Dibenz(a,h)anthracene	666	476	71	27-130	
Fluoranthene	666	483	72	40-130	
Fluorene	666	450	68	40-130	
Indeno[1,2,3-cd]pyrene	666	403	60	30-130	
1-Methylnaphthalene	666	509	76	31-130	
2-Methylnaphthalene	666	483	72	33-130	
Naphthalene	666	461	69	36-130	
Phenanthrene	666	439	66	42-130	
Pyrene	666	509	76	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.: 680-88766-1

SDG No.: 68088766-1

Matrix: Solid Level: Low Lab File ID: 1DD03006.D

Lab ID: LCS 660-136026/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	665	403	61	39-130	
Acenaphthylene	665	409	61	38-130	
Anthracene	665	416	63	37-130	
Benzo[a]anthracene	665	476	72	40-130	
Benzo[a]pyrene	665	412	62	49-130	
Benzo[b]fluoranthene	665	455	68	37-130	
Benzo[g,h,i]perylene	665	416	62	32-130	
Benzo[k]fluoranthene	665	444	67	32-130	
Chrysene	665	416	63	41-130	
Dibenz(a,h)anthracene	665	438	66	27-130	
Fluoranthene	665	427	64	40-130	
Fluorene	665	418	63	40-130	
Indeno[1,2,3-cd]pyrene	665	414	62	30-130	
1-Methylnaphthalene	665	434	65	31-130	
2-Methylnaphthalene	665	428	64	33-130	
Naphthalene	665	418	63	36-130	
Phenanthrene	665	414	62	42-130	
Pyrene	665	444	67	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Matrix: Solid Level: Low Lab File ID: 1CD03016.D

Lab ID: LCS 660-136063/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	668	458	69	39-130	
Acenaphthylene	668	488	73	38-130	
Anthracene	668	469	70	37-130	
Benzo[a]anthracene	668	484	72	40-130	
Benzo[a]pyrene	668	444	66	49-130	
Benzo[b]fluoranthene	668	516	77	37-130	
Benzo[g,h,i]perylene	668	418	63	32-130	
Benzo[k]fluoranthene	668	468	70	32-130	
Chrysene	668	462	69	41-130	
Dibenz(a,h)anthracene	668	471	71	27-130	
Fluoranthene	668	487	73	40-130	
Fluorene	668	444	66	40-130	
Indeno[1,2,3-cd]pyrene	668	399	60	30-130	
1-Methylnaphthalene	668	522	78	31-130	
2-Methylnaphthalene	668	458	69	33-130	
Naphthalene	668	484	72	36-130	
Phenanthrene	668	499	75	42-130	
Pyrene	668	516	77	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.: 680-88766-1

SDG No.: 68088766-1

Matrix: Solid Level: Low Lab File ID: 1CD02029.D

Lab ID: 680-88632-A-21-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	817	120 U	449	55	39-130	
Acenaphthylene	817	20 J	445	52	38-130	
Anthracene	817	14	430	51	37-130	
Benzo[a]anthracene	817	94	578	59	40-130	
Benzo[a]pyrene	817	97	499	49	49-130	
Benzo[b]fluoranthene	817	200	613	51	37-130	
Benzo[g,h,i]perylene	817	91	463	46	32-130	
Benzo[k]fluoranthene	817	51	560	62	32-130	
Chrysene	817	140	553	51	41-130	
Dibenz(a,h)anthracene	817	32	479	55	27-130	
Fluoranthene	817	140	598	57	40-130	
Fluorene	817	9.4 J	502	60	40-130	
Indeno[1,2,3-cd]pyrene	817	74	413	42	30-130	
1-Methylnaphthalene	817	33 J	610	71	31-130	
2-Methylnaphthalene	817	51	567	63	33-130	
Naphthalene	817	79	572	60	36-130	
Phenanthrene	817	100	565	57	42-130	
Pyrene	817	110	597	60	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.: 680-88766-1

SDG No.: 68088766-1

Matrix: Solid Level: Low Lab File ID: 1CD03018.D

Lab ID: 680-88766-A-21-E MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	883	530 U	656	74	39-130	
Acenaphthylene	883	34 J	626	67	38-130	
Anthracene	883	45 U	666	75	37-130	
Benzo[a]anthracene	883	200	833	72	40-130	
Benzo[a]pyrene	883	100	650	62	49-130	
Benzo[b]fluoranthene	883	150	738	66	37-130	
Benzo[g,h,i]perylene	883	130	623	56	32-130	
Benzo[k]fluoranthene	883	79	667	67	32-130	
Chrysene	883	210	780	65	41-130	
Dibenz(a,h)anthracene	883	62 J	622	63	27-130	
Fluoranthene	883	210	697	55	40-130	
Fluorene	883	39 J	639	68	40-130	
Indeno[1,2,3-cd]pyrene	883	76 J	532	52	30-130	
1-Methylnaphthalene	883	120 J	653	60	31-130	
2-Methylnaphthalene	883	130 J	653	59	33-130	
Naphthalene	883	100 J	681	66	36-130	
Phenanthrene	883	200	690	55	42-130	
Pyrene	883	210	750	62	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.: 680-88766-1

SDG No.: 68088766-1

Matrix: Solid Level: Low Lab File ID: 1DD03008.D

Lab ID: 680-88766-6 MS Client ID: CV0613E-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	787	470 U	547	69	39-130	
Acenaphthylene	787	110 J	605	63	38-130	
Anthracene	787	290	727	56	37-130	
Benzo[a]anthracene	787	910	1210	37	40-130	F
Benzo[a]pyrene	787	830	1100	35	49-130	F
Benzo[b]fluoranthene	787	1500	1640	20	37-130	F
Benzo[g,h,i]perylene	787	760	1190	54	32-130	
Benzo[k]fluoranthene	787	530	941	52	32-130	
Chrysene	787	1000	1200	25	41-130	F
Dibenz(a,h)anthracene	787	210	764	70	27-130	
Fluoranthene	787	1500	1520	7	40-130	F
Fluorene	787	77 J	589	65	40-130	
Indeno[1,2,3-cd]pyrene	787	670	1080	52	30-130	
1-Methylnaphthalene	787	110 J	609	63	31-130	
2-Methylnaphthalene	787	150 J	655	65	33-130	
Naphthalene	787	150 J	634	62	36-130	
Phenanthrene	787	830	1070	30	42-130	F
Pyrene	787	1300	1520	23	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Matrix: Solid Level: Low Lab File ID: 1CD02030.D

Lab ID: 680-88632-A-21-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	815	487	60	8	40	39-130	
Acenaphthylene	815	546	65	20	40	38-130	
Anthracene	815	560	67	26	40	37-130	
Benzo[a]anthracene	815	708	75	20	40	40-130	
Benzo[a]pyrene	815	651	68	26	40	49-130	
Benzo[b]fluoranthene	815	797	73	26	40	37-130	
Benzo[g,h,i]perylene	815	579	60	22	40	32-130	
Benzo[k]fluoranthene	815	696	79	22	40	32-130	
Chrysene	815	684	67	21	40	41-130	
Dibenz(a,h)anthracene	815	567	66	17	40	27-130	
Fluoranthene	815	765	77	24	40	40-130	
Fluorene	815	538	65	7	40	40-130	
Indeno[1,2,3-cd]pyrene	815	581	62	34	40	30-130	
1-Methylnaphthalene	815	644	75	6	40	31-130	
2-Methylnaphthalene	815	622	70	9	40	33-130	
Naphthalene	815	608	65	6	40	36-130	
Phenanthrene	815	684	71	19	40	42-130	
Pyrene	815	746	78	22	40	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Matrix: Solid Level: Low Lab File ID: 1CD03019.D

Lab ID: 680-88766-A-21-F MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	927	669	72	2	40	39-130	
Acenaphthylene	927	686	70	9	40	38-130	
Anthracene	927	674	73	1	40	37-130	
Benzo[a]anthracene	927	856	71	3	40	40-130	
Benzo[a]pyrene	927	651	59	0	40	49-130	
Benzo[b]fluoranthene	927	710	60	4	40	37-130	
Benzo[g,h,i]perylene	927	618	53	1	40	32-130	
Benzo[k]fluoranthene	927	822	80	21	40	32-130	
Chrysene	927	739	57	5	40	41-130	
Dibenz(a,h)anthracene	927	713	70	14	40	27-130	
Fluoranthene	927	780	62	11	40	40-130	
Fluorene	927	657	67	3	40	40-130	
Indeno[1,2,3-cd]pyrene	927	659	63	21	40	30-130	
1-Methylnaphthalene	927	709	64	8	40	31-130	
2-Methylnaphthalene	927	671	58	3	40	33-130	
Naphthalene	927	648	59	5	40	36-130	
Phenanthrene	927	758	60	9	40	42-130	
Pyrene	927	878	72	16	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.: 680-88766-1

SDG No.: 68088766-1

Matrix: Solid Level: Low Lab File ID: 1DD03009.D

Lab ID: 680-88766-6 MSD Client ID: CV0613E-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	784	504	64	8	40	39-130	
Acenaphthylene	784	582	61	4	40	38-130	
Anthracene	784	668	49	8	40	37-130	
Benzo[a]anthracene	784	1050	18	14	40	40-130	F
Benzo[a]pyrene	784	993	21	10	40	49-130	F
Benzo[b]fluoranthene	784	1340	-18	20	40	37-130	F
Benzo[g,h,i]perylene	784	1090	42	9	40	32-130	
Benzo[k]fluoranthene	784	839	39	12	40	32-130	
Chrysene	784	1060	7	13	40	41-130	F
Dibenz(a,h)anthracene	784	735	66	4	40	27-130	
Fluoranthene	784	1210	-33	23	40	40-130	F
Fluorene	784	558	61	6	40	40-130	
Indeno[1,2,3-cd]pyrene	784	978	39	10	40	30-130	
1-Methylnaphthalene	784	581	60	5	40	31-130	
2-Methylnaphthalene	784	603	58	8	40	33-130	
Naphthalene	784	573	54	10	40	36-130	
Phenanthrene	784	872	5	20	40	42-130	F
Pyrene	784	1210	-17	23	40	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Lab File ID: 1CD02026.D Lab Sample ID: MB 660-135924/1-A

Matrix: Solid Date Extracted: 03/29/2013 10:19

Instrument ID: BSMC5973 Date Analyzed: 04/02/2013 20:01

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135924/2-A	1CD02027.D	04/02/2013 20:19
	680-88632-A-21-B MS	1CD02029.D	04/02/2013 20:56
	680-88632-A-21-C MSD	1CD02030.D	04/02/2013 21:14
CV0613A-CS	680-88766-1	1CD02032.D	04/02/2013 21:51
CV0613A-CSD	680-88766-2	1CD02033.D	04/02/2013 22:09
CV0613B-CS	680-88766-3	1CD02034.D	04/02/2013 22:27
CV0613C-CS	680-88766-4	1CD02035.D	04/02/2013 22:46
CV0613D-CS	680-88766-5	1CD02036.D	04/02/2013 23:04
CV0613F-CS	680-88766-7	1CD02037.D	04/02/2013 23:22
CV0613G-CS	680-88766-8	1CD02038.D	04/02/2013 23:41
CV0613H-CS	680-88766-9	1CD02039.D	04/02/2013 23:59
CV0613I-CS	680-88766-10	1CD02040.D	04/03/2013 00:17
CV0613J-CS	680-88766-11	1CD03007.D	04/03/2013 12:59
CV0613K-CS	680-88766-12	1CD03008.D	04/03/2013 13:17
CV0613K-CSD	680-88766-13	1CD03009.D	04/03/2013 13:35
CV0613AB-GS	680-88766-14	1CD03010.D	04/03/2013 13:54
CV0613AC-GS	680-88766-15	1CD03011.D	04/03/2013 14:12
CV0610A-CS	680-88766-16	1CD03012.D	04/03/2013 14:30
CV0610AB-GS	680-88766-18	1CD03013.D	04/03/2013 14:49
CV0506A-CS	680-88766-19	1CD03014.D	04/03/2013 15:07

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Lab File ID: 1DD03005.D Lab Sample ID: MB 660-136026/1-A

Matrix: Solid Date Extracted: 04/01/2013 13:16

Instrument ID: BSMD5973 Date Analyzed: 04/03/2013 12:45

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136026/2-A	1DD03006.D	04/03/2013 13:07
CV0613E-CS	680-88766-6	1DD03007.D	04/03/2013 13:30
CV0613E-CS MS	680-88766-6 MS	1DD03008.D	04/03/2013 13:52
CV0613E-CS MSD	680-88766-6 MSD	1DD03009.D	04/03/2013 14:15

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Lab File ID: 1CD03015.D Lab Sample ID: MB 660-136063/1-A

Matrix: Solid Date Extracted: 04/02/2013 11:33

Instrument ID: BSMC5973 Date Analyzed: 04/03/2013 15:34

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136063/2-A	1CD03016.D	04/03/2013 15:52
	680-88766-A-21-E MS	1CD03018.D	04/03/2013 16:29
	680-88766-A-21-F MSD	1CD03019.D	04/03/2013 16:47
CV0610B-CS	680-88766-17	1CD03023.D	04/03/2013 18:00
CV0506B-CS	680-88766-20	1CD03024.D	04/03/2013 18:19

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Lab File ID: 1CD02002.D DFTPP Injection Date: 04/02/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:31

Analysis Batch No.: 136048

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	34.9	
68	Less than 2.0 % of mass 69	0.8	(1.6)1
69	Mass 69 relative abundance	49.9	
70	Less than 2.0 % of mass 69	0.4	(0.9)1
127	10.0 - 80.0 % of mass 198	42.2	
197	Less than 2.0 % of mass 198	0.4	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.6	
275	10.0 - 60.0 % of mass 198	21.5	
365	Greater than 1.0 % of mass 198	3.4	
441	Present but less than mass 443	10.2	
442	Greater than 50.0 % of mass 198	56.7	
443	15.0 - 24.0 % of mass 442	11.0	(19.4)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-136048/5	1CD02005.D	04/02/2013	13:26
	IC 660-136048/6	1CD02006.D	04/02/2013	13:44
	IC 660-136048/7	1CD02007.D	04/02/2013	14:02
	IC 660-136048/8	1CD02008.D	04/02/2013	14:20
	ICIS 660-136048/9	1CD02009.D	04/02/2013	14:39
	IC 660-136048/10	1CD02010.D	04/02/2013	14:57
	IC 660-136048/11	1CD02011.D	04/02/2013	15:15
	ICV 660-136048/12	1CD02012.D	04/02/2013	15:34

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Lab File ID: 1CD02014.D DFTPP Injection Date: 04/02/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 16:23

Analysis Batch No.: 136079

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	32.4	
68	Less than 2.0 % of mass 69	0.3	(0.6)1
69	Mass 69 relative abundance	47.7	
70	Less than 2.0 % of mass 69	0.3	(0.7)1
127	10.0 - 80.0 % of mass 198	49.3	
197	Less than 2.0 % of mass 198	0.9	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.6	
275	10.0 - 60.0 % of mass 198	24.0	
365	Greater than 1.0 % of mass 198	3.6	
441	Present but less than mass 443	10.2	
442	Greater than 50.0 % of mass 198	86.9	
443	15.0 - 24.0 % of mass 442	19.1	(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 660-136079/3	1CD02015.D	04/02/2013	16:40
	MB 660-135924/1-A	1CD02026.D	04/02/2013	20:01
	LCS 660-135924/2-A	1CD02027.D	04/02/2013	20:19
	680-88632-A-21-B MS	1CD02029.D	04/02/2013	20:56
	680-88632-A-21-C MSD	1CD02030.D	04/02/2013	21:14
CV0613A-CS	680-88766-1	1CD02032.D	04/02/2013	21:51
CV0613A-CSD	680-88766-2	1CD02033.D	04/02/2013	22:09
CV0613B-CS	680-88766-3	1CD02034.D	04/02/2013	22:27
CV0613C-CS	680-88766-4	1CD02035.D	04/02/2013	22:46
CV0613D-CS	680-88766-5	1CD02036.D	04/02/2013	23:04
CV0613F-CS	680-88766-7	1CD02037.D	04/02/2013	23:22
CV0613G-CS	680-88766-8	1CD02038.D	04/02/2013	23:41
CV0613H-CS	680-88766-9	1CD02039.D	04/02/2013	23:59
CV0613I-CS	680-88766-10	1CD02040.D	04/03/2013	00:17

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Lab File ID: 1CD03002.D DFTPP Injection Date: 04/03/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:28

Analysis Batch No.: 136081

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	42.7	
68	Less than 2.0 % of mass 69	0.6	(1.1)1
69	Mass 69 relative abundance	49.7	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	48.1	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.2	
275	10.0 - 60.0 % of mass 198	19.7	
365	Greater than 1.0 % of mass 198	2.4	
441	Present but less than mass 443	6.9	
442	Greater than 50.0 % of mass 198	61.0	
443	15.0 - 24.0 % of mass 442	10.2	(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
	CCVIS 660-136081/3	1CD03003.D	04/03/2013	11:45
CV0613J-CS	680-88766-11	1CD03007.D	04/03/2013	12:59
CV0613K-CS	680-88766-12	1CD03008.D	04/03/2013	13:17
CV0613K-CSD	680-88766-13	1CD03009.D	04/03/2013	13:35
CV0613AB-GS	680-88766-14	1CD03010.D	04/03/2013	13:54
CV0613AC-GS	680-88766-15	1CD03011.D	04/03/2013	14:12
CV0610A-CS	680-88766-16	1CD03012.D	04/03/2013	14:30
CV0610AB-GS	680-88766-18	1CD03013.D	04/03/2013	14:49
CV0506A-CS	680-88766-19	1CD03014.D	04/03/2013	15:07
	MB 660-136063/1-A	1CD03015.D	04/03/2013	15:34
	LCS 660-136063/2-A	1CD03016.D	04/03/2013	15:52
	680-88766-A-21-E MS	1CD03018.D	04/03/2013	16:29
	680-88766-A-21-F MSD	1CD03019.D	04/03/2013	16:47
CV0610B-CS	680-88766-17	1CD03023.D	04/03/2013	18:00
CV0506B-CS	680-88766-20	1CD03024.D	04/03/2013	18:19

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

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.: 680-88766-1

SDG No.: 68088766-1

Lab File ID: 1DD03002.D DFTPP Injection Date: 04/03/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 11:38

Analysis Batch No.: 136118

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	42.8	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	42.7	
70	Less than 2.0 % of mass 69	0.3	(0.8)1
127	10.0 - 80.0 % of mass 198	50.6	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.9	
275	10.0 - 60.0 % of mass 198	29.1	
365	Greater than 1.0 % of mass 198	3.6	
441	Present but less than mass 443	8.4	
442	Greater than 50.0 % of mass 198	82.6	
443	15.0 - 24.0 % of mass 442	17.3	(20.9)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136118/3	1DD03003.D	04/03/2013	11:55
	MB 660-136026/1-A	1DD03005.D	04/03/2013	12:45
	LCS 660-136026/2-A	1DD03006.D	04/03/2013	13:07
CV0613E-CS	680-88766-6	1DD03007.D	04/03/2013	13:30
CV0613E-CS MS	680-88766-6 MS	1DD03008.D	04/03/2013	13:52
CV0613E-CS MSD	680-88766-6 MSD	1DD03009.D	04/03/2013	14:15

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Sample No.: ICIS 660-136048/9 Date Analyzed: 04/02/2013 14:39

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

Lab File ID (Standard): 1CD02009.D Heated Purge: (Y/N) N

Calibration ID: 2859

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		501011	3.71	361349	4.80	702974	5.75
UPPER LIMIT		1002022	4.21	722698	5.30	1405948	6.25
LOWER LIMIT		250506	3.21	180675	4.30	351487	5.25
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136048/12		649122	3.71	500935	4.80	955391	5.75

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.: 680-88766-1

SDG No.: 68088766-1

Sample No.: ICIS 660-136048/9 Date Analyzed: 04/02/2013 14:39

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

Lab File ID (Standard): 1CD02009.D Heated Purge: (Y/N) N

Calibration ID: 2859

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		875378	7.69	942955	8.86		
UPPER LIMIT		1750756	8.19	1885910	9.36		
LOWER LIMIT		437689	7.19	471478	8.36		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136048/12		1249690	7.69	1306409	8.86		

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.: 680-88766-1

SDG No.: 68088766-1

Sample No.: CCVIS 660-136079/3 Date Analyzed: 04/02/2013 16:40

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

Lab File ID (Standard): 1CD02015.D Heated Purge: (Y/N) N

Calibration ID: 2859

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		497056	3.71	363517	4.80	670971	5.75
UPPER LIMIT		994112	4.21	727034	5.30	1341942	6.25
LOWER LIMIT		248528	3.21	181759	4.30	335486	5.25
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135924/1-A		569471	3.71	504679	4.80	959879	5.75
LCS 660-135924/2-A		536976	3.71	477938	4.80	982106	5.75
680-88632-A-21-B MS		583262	3.71	519154	4.80	1060524	5.75
680-88632-A-21-C MSD		597406	3.71	494548	4.80	988760	5.75
680-88766-1	CV0613A-CS	598574	3.71	502461	4.80	984124	5.75
680-88766-2	CV0613A-CSD	653277	3.71	571255	4.80	1062199	5.75
680-88766-3	CV0613B-CS	648019	3.71	533957	4.80	1041236	5.75
680-88766-4	CV0613C-CS	606875	3.72	510653	4.80	1016416	5.75
680-88766-5	CV0613D-CS	641712	3.71	558321	4.80	1081859	5.75
680-88766-7	CV0613F-CS	676187	3.71	565606	4.80	1068419	5.75
680-88766-8	CV0613G-CS	678709	3.71	576647	4.80	1090475	5.75
680-88766-9	CV0613H-CS	690836	3.71	572206	4.80	1039750	5.75
680-88766-10	CV0613I-CS	693655	3.72	561980	4.80	1065582	5.75

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.: 680-88766-1

SDG No.: 68088766-1

Sample No.: CCVIS 660-136079/3 Date Analyzed: 04/02/2013 16:40

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

Lab File ID (Standard): 1CD02015.D Heated Purge: (Y/N) N

Calibration ID: 2859

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		842326	7.69	926334	8.86		
UPPER LIMIT		1684652	8.19	1852668	9.36		
LOWER LIMIT		421163	7.19	463167	8.36		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135924/1-A		1168702	7.69	1102080	8.86		
LCS 660-135924/2-A		1206373	7.69	1158196	8.86		
680-88632-A-21-B MS		1203389	7.69	1130015	8.86		
680-88632-A-21-C MSD		1197197	7.69	1105114	8.86		
680-88766-1	CV0613A-CS	1091866	7.69	1035527	8.86		
680-88766-2	CV0613A-CSD	1192221	7.69	1107324	8.86		
680-88766-3	CV0613B-CS	1145801	7.69	1084763	8.86		
680-88766-4	CV0613C-CS	1137493	7.69	1059585	8.86		
680-88766-5	CV0613D-CS	1165723	7.69	1077180	8.86		
680-88766-7	CV0613F-CS	1167540	7.69	1101002	8.86		
680-88766-8	CV0613G-CS	1177327	7.69	1088533	8.86		
680-88766-9	CV0613H-CS	1190827	7.69	1123922	8.86		
680-88766-10	CV0613I-CS	1170707	7.69	1107482	8.86		

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.: 680-88766-1

SDG No.: 68088766-1

Sample No.: CCVIS 660-136081/3 Date Analyzed: 04/03/2013 11:45

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

Lab File ID (Standard): 1CD03003.D Heated Purge: (Y/N) N

Calibration ID: 2859

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		500765	3.70	364027	4.79	687020	5.74
UPPER LIMIT		1001530	4.20	728054	5.29	1374040	6.24
LOWER LIMIT		250383	3.20	182014	4.29	343510	5.24
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-88766-11	CV0613J-CS	652183	3.71	529801	4.79	946645	5.74
680-88766-12	CV0613K-CS	673174	3.71	535006	4.79	973296	5.74
680-88766-13	CV0613K-CSD	677836	3.71	527661	4.79	939614	5.74
680-88766-14	CV0613AB-GS	695851	3.71	550329	4.79	993420	5.74
680-88766-15	CV0613AC-GS	662131	3.71	532208	4.79	977937	5.74
680-88766-16	CV0610A-CS	663830	3.71	524648	4.79	934032	5.74
680-88766-18	CV0610AB-GS	709889	3.71	565667	4.79	1017413	5.74
680-88766-19	CV0506A-CS	763309	3.71	591380	4.79	1087875	5.74
MB 660-136063/1-A		646271	3.71	483289	4.80	879169	5.75
LCS 660-136063/2-A		631468	3.71	487717	4.79	877192	5.74
680-88766-A-21-E MS		604618	3.71	447317	4.79	819020	5.74
680-88766-A-21-F MSD		599290	3.71	437990	4.79	801261	5.74
680-88766-17	CV0610B-CS	543842	3.71	400070	4.79	732588	5.74
680-88766-20	CV0506B-CS	564472	3.71	397520	4.79	747114	5.74

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.: 680-88766-1

SDG No.: 68088766-1

Sample No.: CCVIS 660-136081/3 Date Analyzed: 04/03/2013 11:45

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

Lab File ID (Standard): 1CD03003.D Heated Purge: (Y/N) N

Calibration ID: 2859

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		857573	7.68	866012	8.85		
UPPER LIMIT		1715146	8.18	1732024	9.35		
LOWER LIMIT		428787	7.18	433006	8.35		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-88766-11	CV0613J-CS	1102110	7.68	1096481	8.85		
680-88766-12	CV0613K-CS	1118813	7.68	1093125	8.85		
680-88766-13	CV0613K-CSD	1092579	7.68	1082251	8.85		
680-88766-14	CV0613AB-GS	1188410	7.68	1183612	8.85		
680-88766-15	CV0613AC-GS	1127698	7.68	1081770	8.85		
680-88766-16	CV0610A-CS	1057713	7.68	1038296	8.85		
680-88766-18	CV0610AB-GS	1170114	7.68	1132670	8.85		
680-88766-19	CV0506A-CS	1222152	7.68	1134770	8.85		
MB 660-136063/1-A		990236	7.68	958431	8.86		
LCS 660-136063/2-A		995572	7.68	964341	8.85		
680-88766-A-21-E MS		882360	7.68	885344	8.85		
680-88766-A-21-F MSD		885431	7.68	855561	8.85		
680-88766-17	CV0610B-CS	822003	7.68	790071	8.85		
680-88766-20	CV0506B-CS	856631	7.68	842436	8.85		

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.: 680-88766-1

SDG No.: 68088766-1

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.: 680-88766-1

SDG No.: 68088766-1

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.: 680-88766-1

SDG No.: 68088766-1

Sample No.: CCVIS 660-136118/3 Date Analyzed: 04/03/2013 11:55

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

Lab File ID (Standard): 1DD03003.D Heated Purge: (Y/N) N

Calibration ID: 2761

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1684268	6.08	988686	7.76	1568221	9.03
UPPER LIMIT		3368536	6.58	1977372	8.26	3136442	9.53
LOWER LIMIT		842134	5.58	494343	7.26	784111	8.53
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136026/1-A		1813955	6.09	1106129	7.77	1728057	9.03
LCS 660-136026/2-A		1813073	6.09	1107155	7.77	1710956	9.02
680-88766-6	CV0613E-CS	1597929	6.09	956642	7.77	1514933	9.02
680-88766-6 MS	CV0613E-CS MS	1565428	6.08	933161	7.76	1505973	9.03
680-88766-6 MSD	CV0613E-CS MSD	1565813	6.08	932778	7.76	1465661	9.03

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Sample No.: CCVIS 660-136118/3 Date Analyzed: 04/03/2013 11:55

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

Lab File ID (Standard): 1DD03003.D Heated Purge: (Y/N) N

Calibration ID: 2761

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1495388	11.35	1508189	13.19		
UPPER LIMIT		2990776	11.85	3016378	13.69		
LOWER LIMIT		747694	10.85	754095	12.69		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136026/1-A		1598481	11.34	1561531	13.19		
LCS 660-136026/2-A		1588234	11.34	1505585	13.18		
680-88766-6	CV0613E-CS	1325225	11.34	1351138	13.18		
680-88766-6 MS	CV0613E-CS MS	1367144	11.34	1425874	13.18		
680-88766-6 MSD	CV0613E-CS MSD	1327104	11.34	1449540	13.19		

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.: 680-88766-1

SDG No.: 68088766-1

Client Sample ID: CV0613A-CS | Lab Sample ID: 680-88766-1

Matrix: Solid | Lab File ID: 1CD02032.D

Analysis Method: 8270C LL | Date Collected: 03/25/2013 13:11

Extract. Method: 3546 | Date Extracted: 03/29/2013 10:19

Sample wt/vol: 14.89(g) | Date Analyzed: 04/02/2013 21:51

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

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

% Moisture: 14.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136079 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	470	U	470	94
208-96-8	Acenaphthylene	150	J	190	24
120-12-7	Anthracene	300		40	20
56-55-3	Benzo[a]anthracene	1100		38	18
50-32-8	Benzo[a]pyrene	950		49	25
205-99-2	Benzo[b]fluoranthene	1800		58	29
191-24-2	Benzo[g,h,i]perylene	790		94	21
207-08-9	Benzo[k]fluoranthene	570		38	17
218-01-9	Chrysene	1000		42	21
53-70-3	Dibenz(a,h)anthracene	280		94	19
206-44-0	Fluoranthene	1600		94	19
86-73-7	Fluorene	70	J	94	19
193-39-5	Indeno[1,2,3-cd]pyrene	660		94	33
90-12-0	1-Methylnaphthalene	190		190	21
91-57-6	2-Methylnaphthalene	190		190	33
91-20-3	Naphthalene	180	J	190	21
85-01-8	Phenanthrene	780		38	18
129-00-0	Pyrene	1400		94	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	96		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1CD02032.D
Lab Smp Id: 680-88766-A-1-A Client Smp ID: CV0613A-CS
Inj Date : 02-APR-2013 21:51
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88766-a-1-a
Misc Info : 680-88766-A-1-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 16:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 31
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.890	Weight Extracted
M	14.559	% 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	3.710	3.710	(1.000)	598574	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	502461	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	984124	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	27007	2.40667	756.6872
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	1091866	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	1035527	40.0000	
2 Naphthalene	128	3.727	3.721	(1.005)	8843	0.57518	180.8447
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	6235	0.59577	187.3167
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	5544	0.58873	185.1036
5 Acenaphthylene	152	4.716	4.710	(0.983)	10038	0.48270	151.7662
9 Fluorene	166	5.139	5.139	(1.071)	3807	0.22172	69.7107(Q)
11 Phenanthrene	178	5.763	5.763	(1.003)	71133	2.48176	780.2983
12 Anthracene	178	5.798	5.798	(1.009)	27740	0.95474	300.1813
13 Carbazole	167	5.904	5.904	(1.028)	10299	0.41373	130.0830

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.598	6.598	(1.148)	159649	5.04359	1585.7674
16 Pyrene	202	6.762	6.762	(0.880)	131293	4.34091	1364.8358
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	102470	3.37458	1061.0122
19 Chrysene	228	7.704	7.704	(1.002)	100725	3.23735	1017.8638
20 Benzo(b)fluoranthene	252	8.515	8.521	(0.961)	164692	5.62564	1768.7738(M)
21 Benzo(k)fluoranthene	252	8.533	8.545	(0.963)	51687	1.82547	573.9495(QMH)
22 Benzo(a)pyrene	252	8.804	8.809	(0.993)	82873	3.00679	945.3730
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.015	(1.129)	54544	2.08353	655.0889(M)
25 Dibenzo(a,h)anthracene	278	10.021	10.027	(1.131)	21190	0.87624	275.5009
26 Benzo(g,h,i)perylene	276	10.350	10.356	(1.168)	67415	2.52317	793.3156

QC Flag Legend

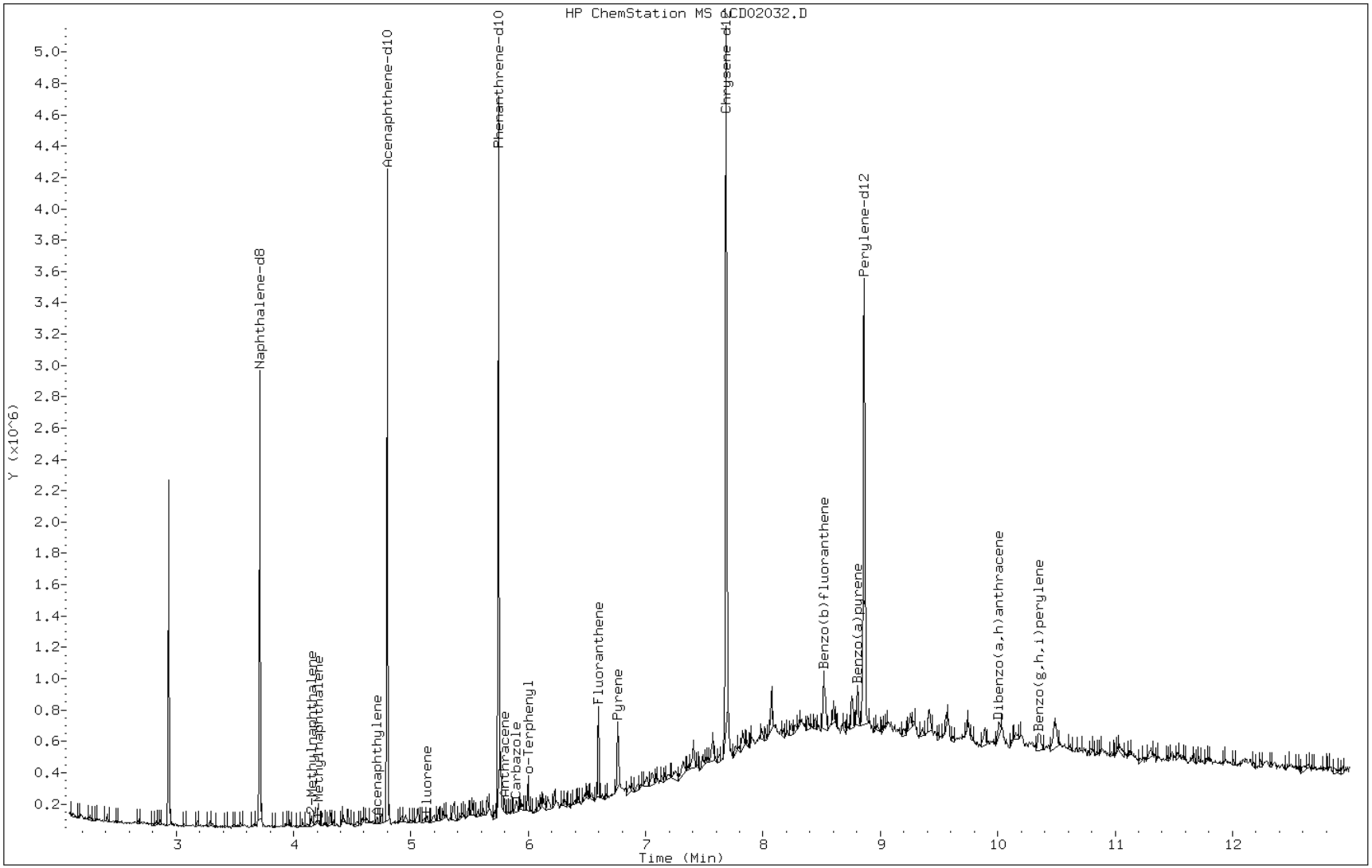
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD02032.D

Date: 02-APR-2013 21:51

Client ID: CV0613A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-1-a Operator: SCC



Data File: 1CD02032.D

Date: 02-APR-2013 21:51

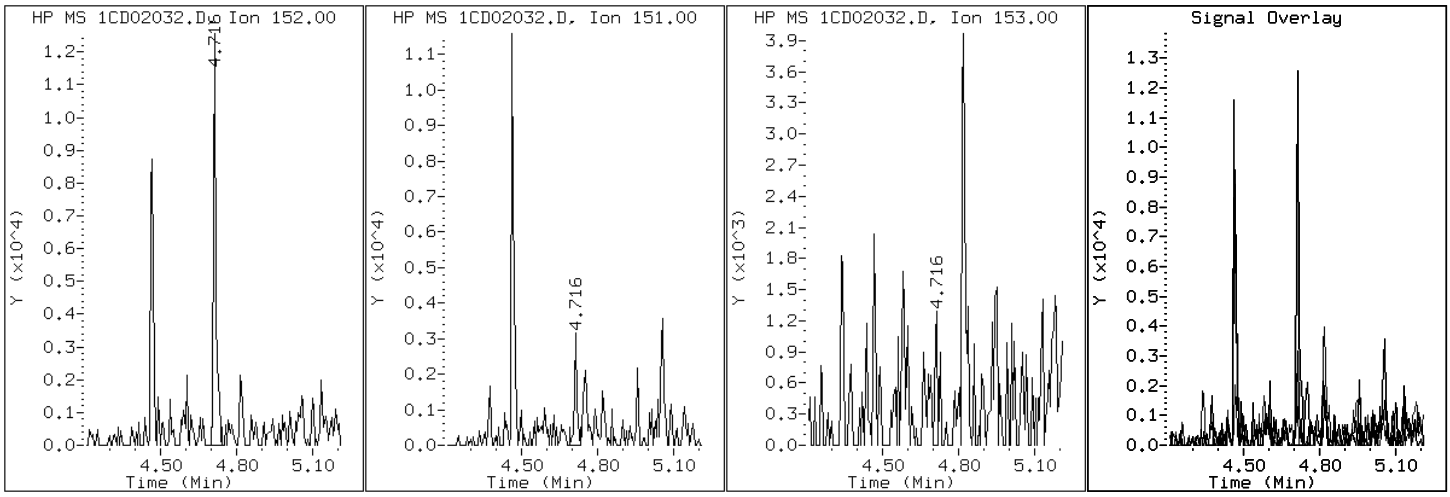
Client ID: CV0613A-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-1-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD02032.D

Date: 02-APR-2013 21:51

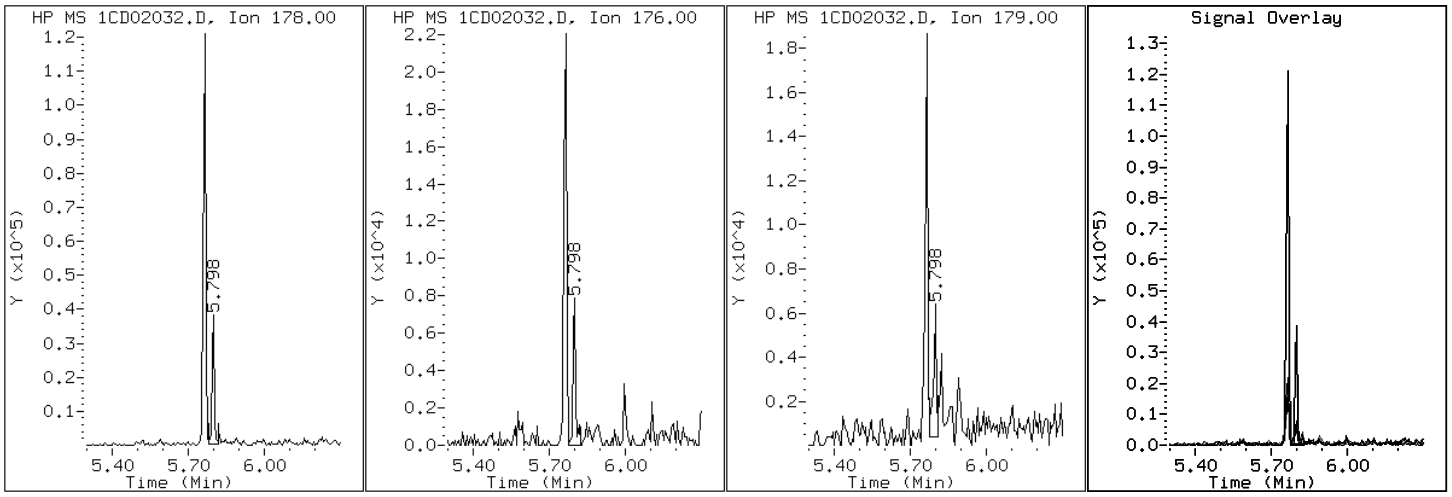
Client ID: CV0613A-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-1-a

Operator: SCC

12 Anthracene



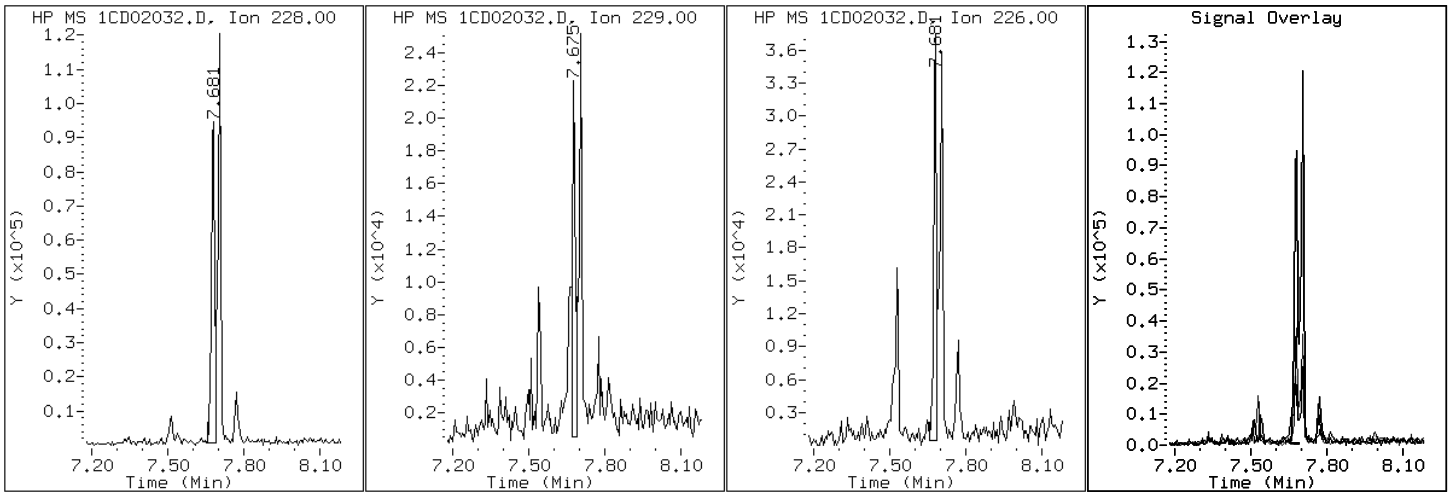
Data File: 1CD02032.D

Date: 02-APR-2013 21:51

Client ID: CV0613A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-1-a Operator: SCC

17 Benzo(a)anthracene



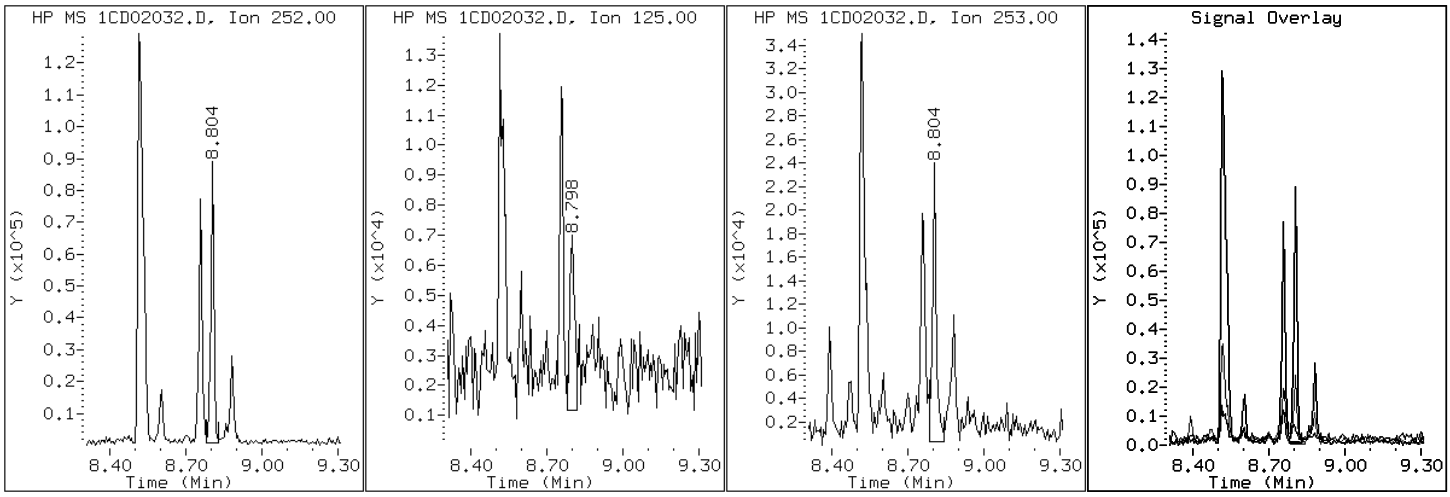
Data File: 1CD02032.D

Date: 02-APR-2013 21:51

Client ID: CV0613A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-1-a Operator: SCC

22 Benzo(a)pyrene



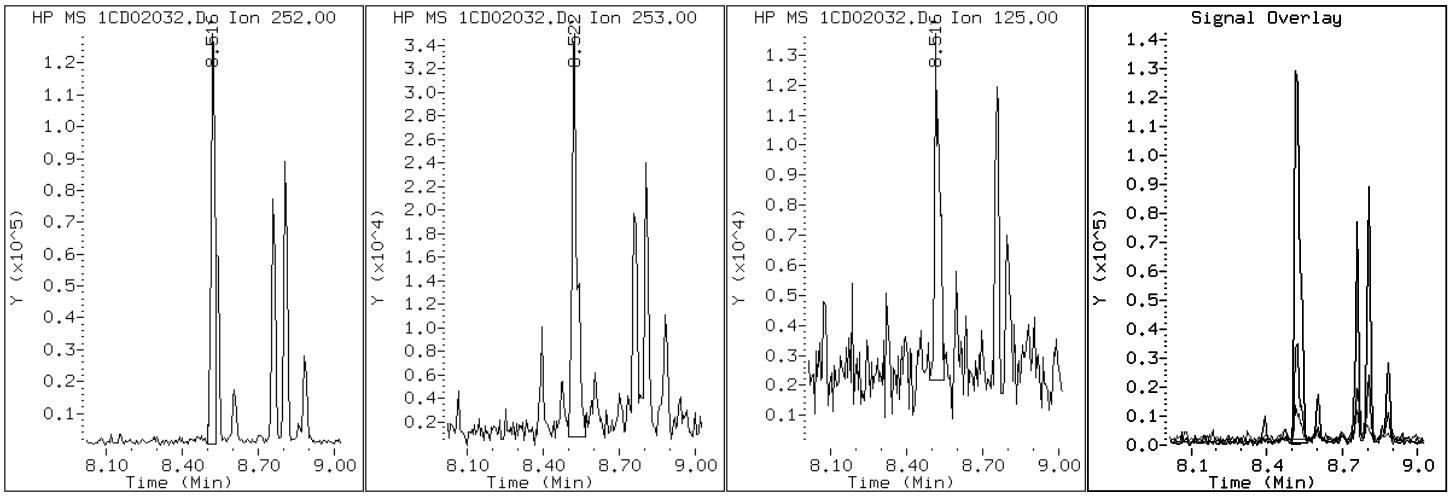
Data File: 1CD02032.D

Date: 02-APR-2013 21:51

Client ID: CV0613A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-1-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD02032.D

Date: 02-APR-2013 21:51

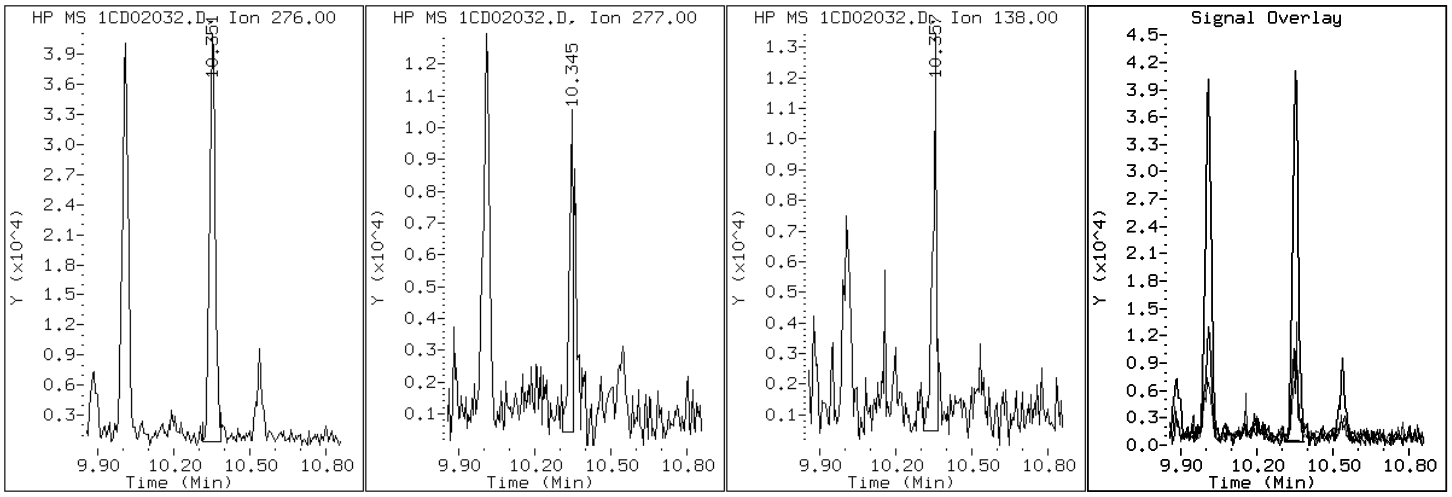
Client ID: CV0613A-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-1-a

Operator: SCC

26 Benzo(g,h,i)perylene



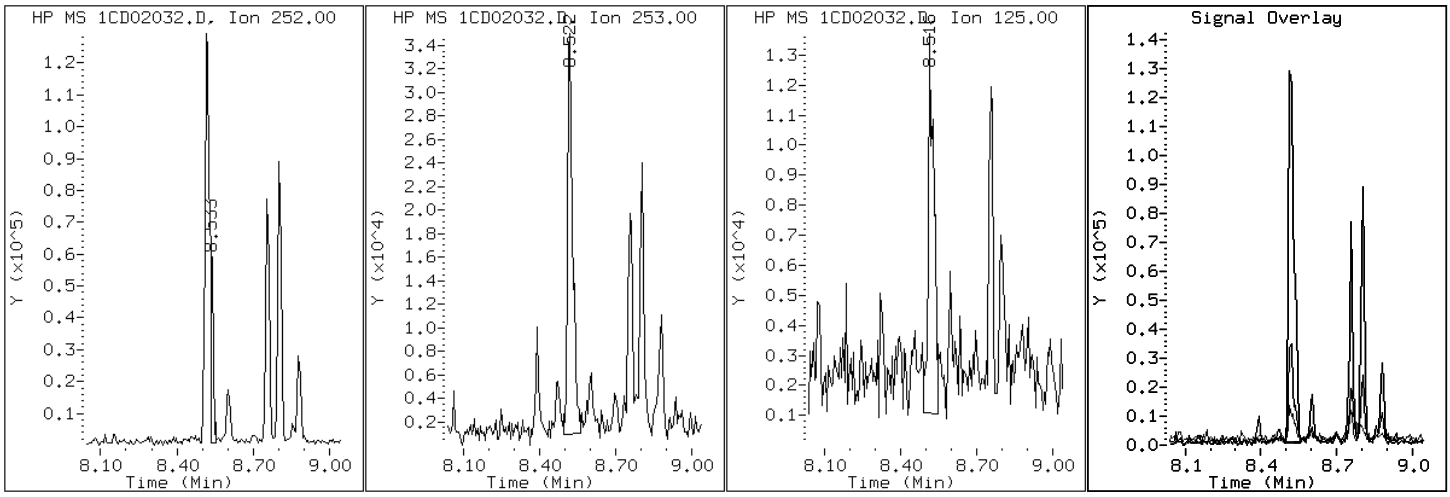
Data File: 1CD02032.D

Date: 02-APR-2013 21:51

Client ID: CV0613A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-1-a Operator: SCC

21 Benzo(k)fluoranthene



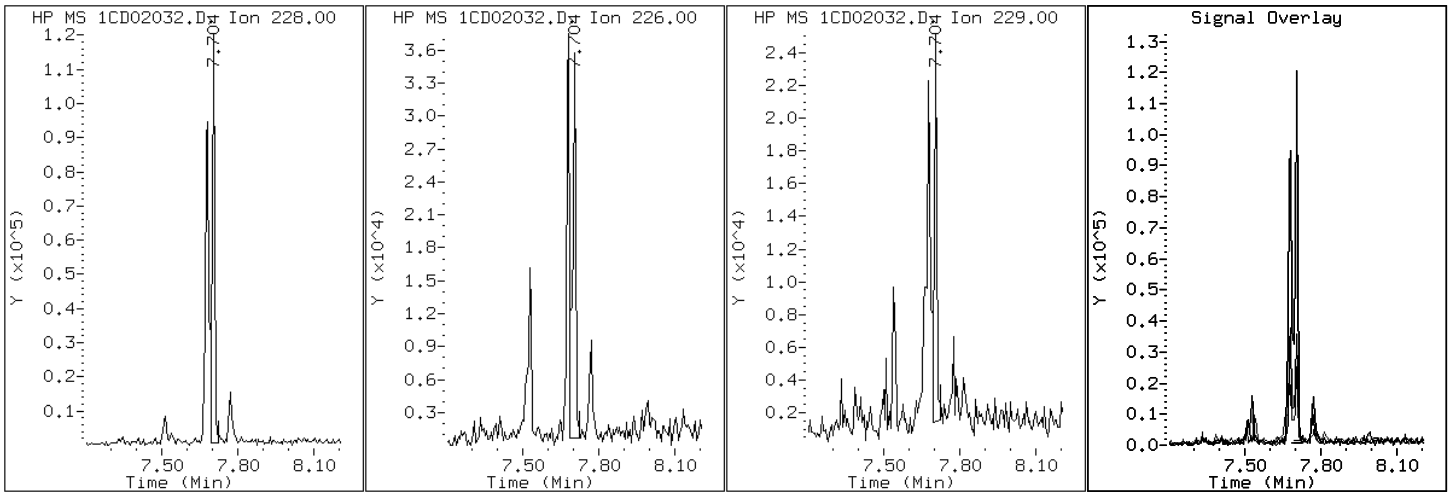
Data File: 1CD02032.D

Date: 02-APR-2013 21:51

Client ID: CV0613A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-1-a Operator: SCC

19 Chrysene



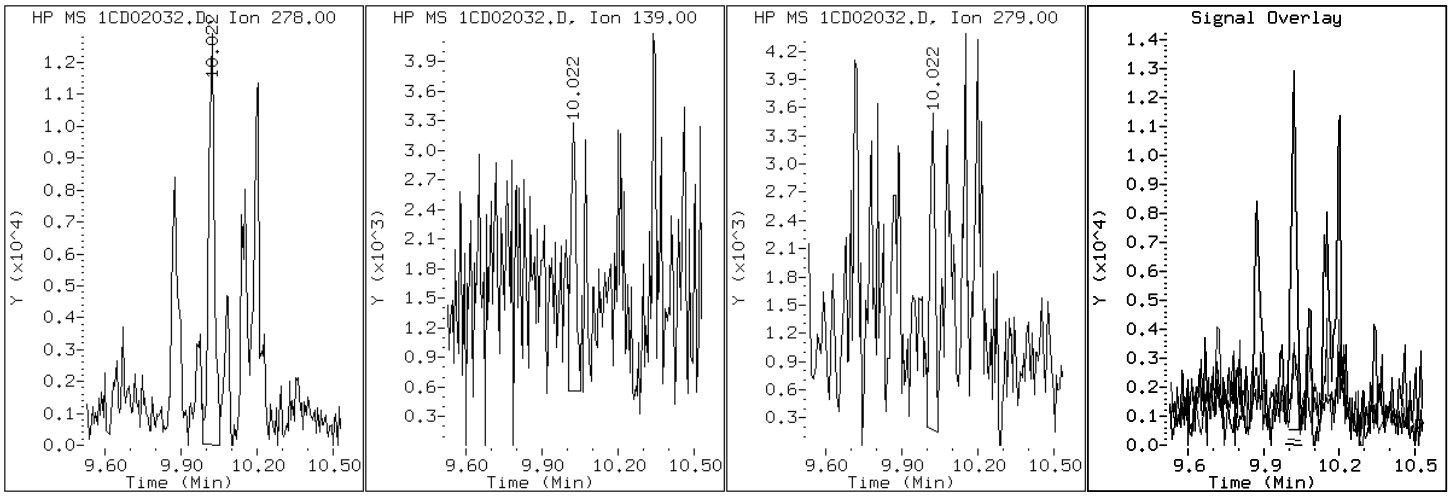
Data File: 1CD02032.D

Date: 02-APR-2013 21:51

Client ID: CV0613A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-1-a Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD02032.D

Date: 02-APR-2013 21:51

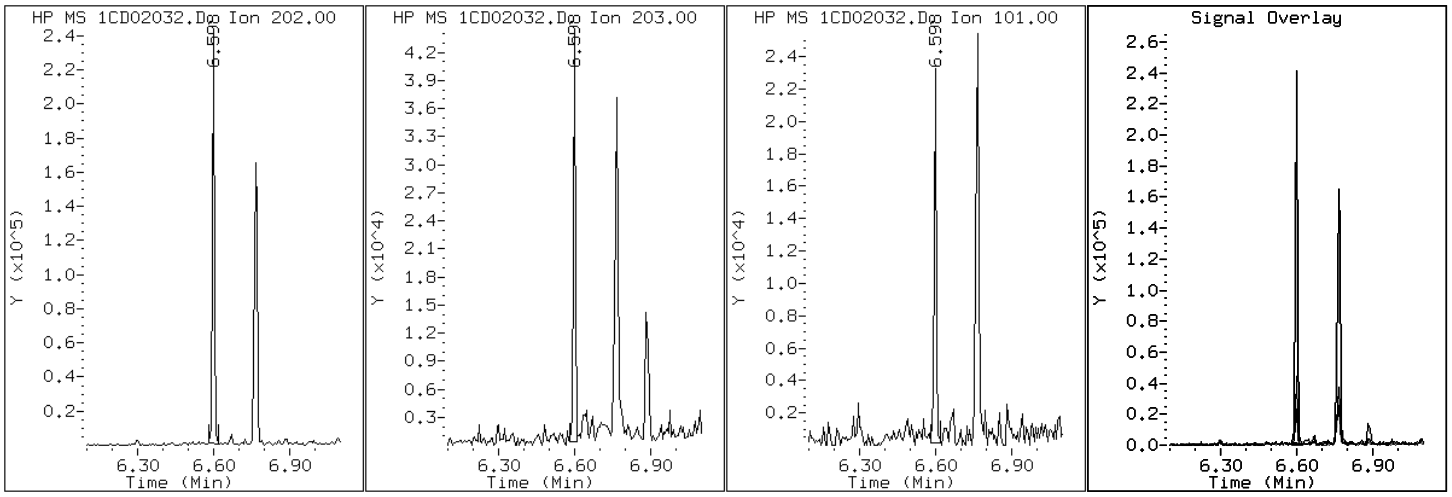
Client ID: CV0613A-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-1-a

Operator: SCC

15 Fluoranthene



Data File: 1CD02032.D

Date: 02-APR-2013 21:51

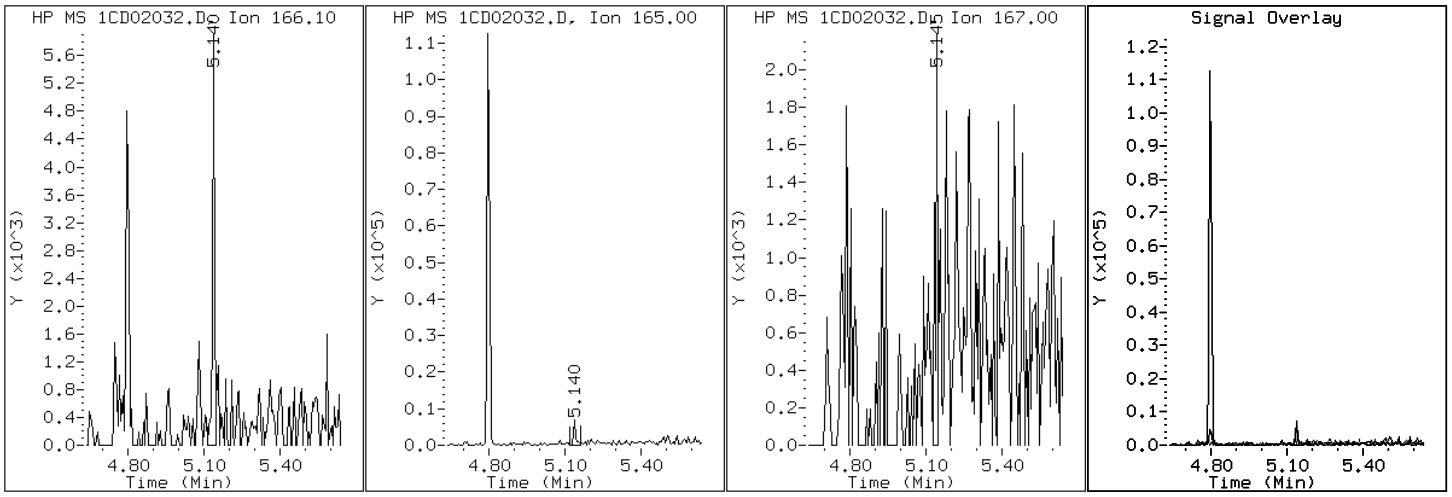
Client ID: CV0613A-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-1-a

Operator: SCC

9 Fluorene



Data File: 1CD02032.D

Date: 02-APR-2013 21:51

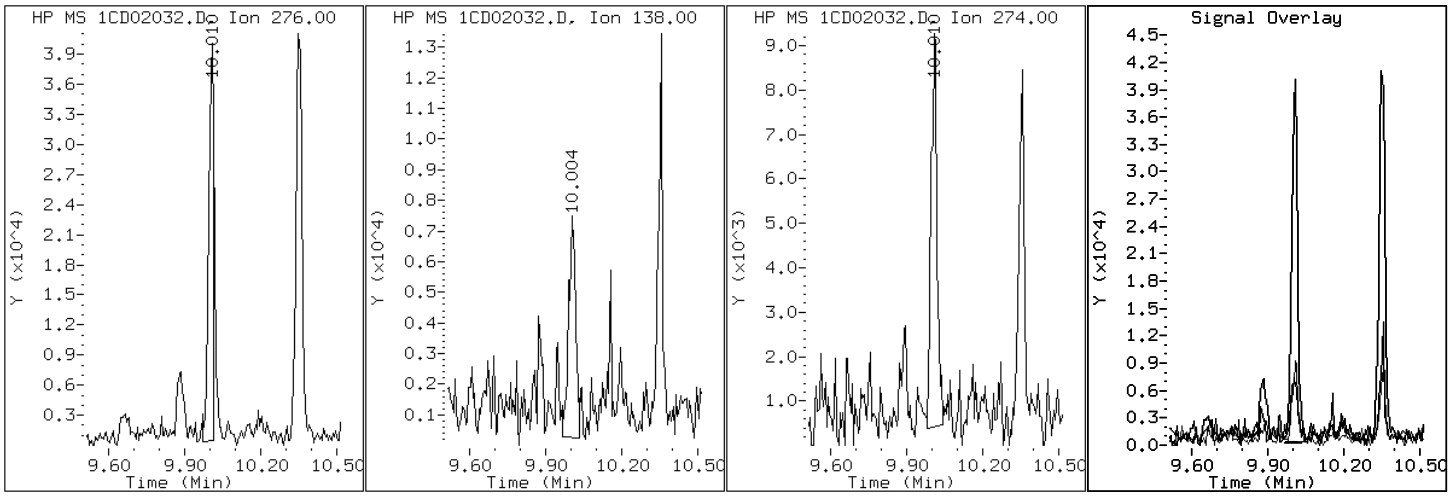
Client ID: CV0613A-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-1-a

Operator: SCC

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



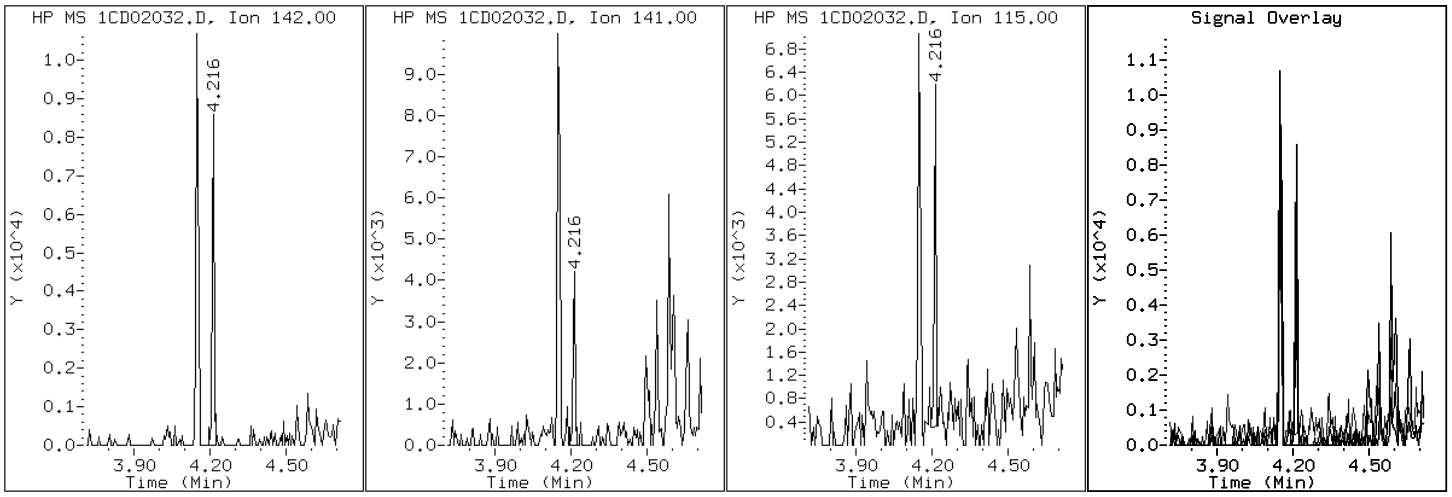
Data File: 1CD02032.D

Date: 02-APR-2013 21:51

Client ID: CV0613A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-1-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD02032.D

Date: 02-APR-2013 21:51

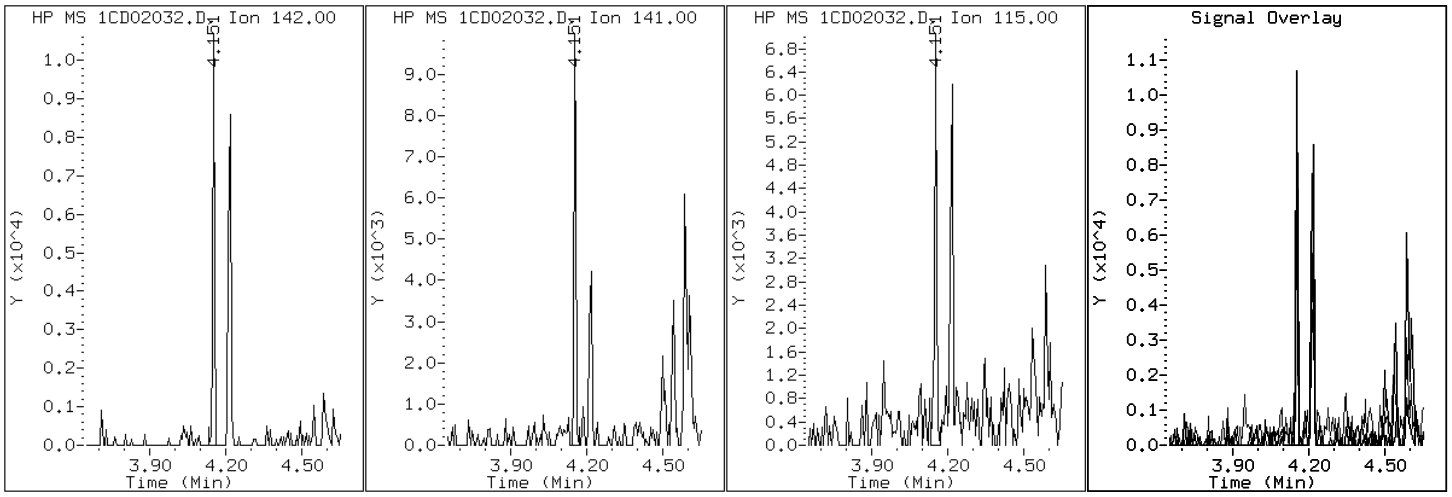
Client ID: CV0613A-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-1-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD02032.D

Date: 02-APR-2013 21:51

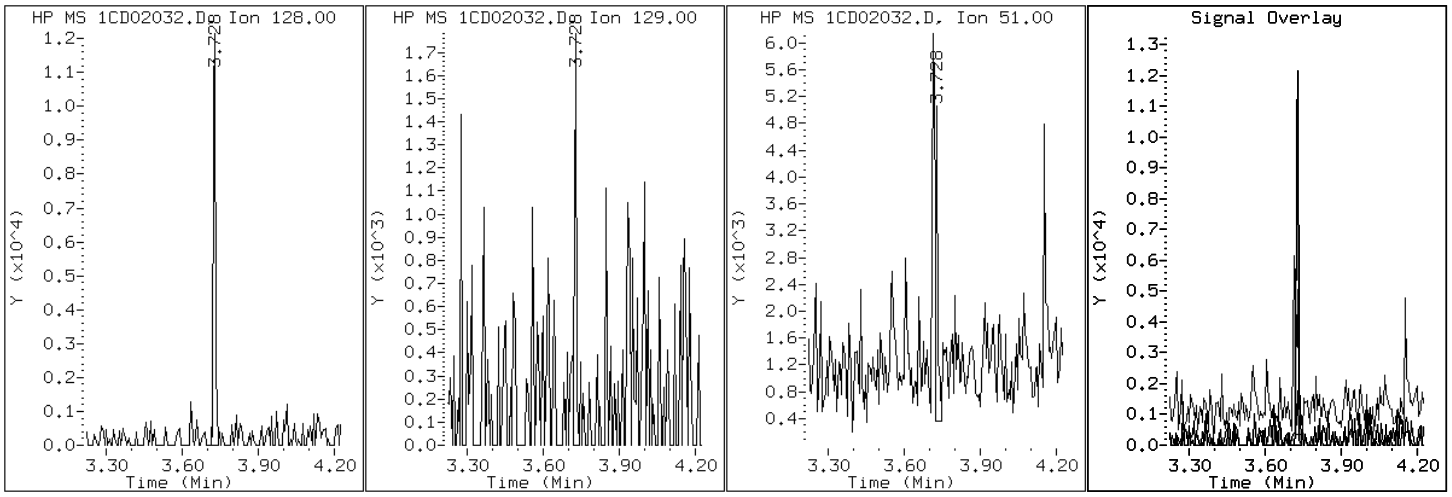
Client ID: CV0613A-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-1-a

Operator: SCC

2 Naphthalene



Data File: 1CD02032.D

Date: 02-APR-2013 21:51

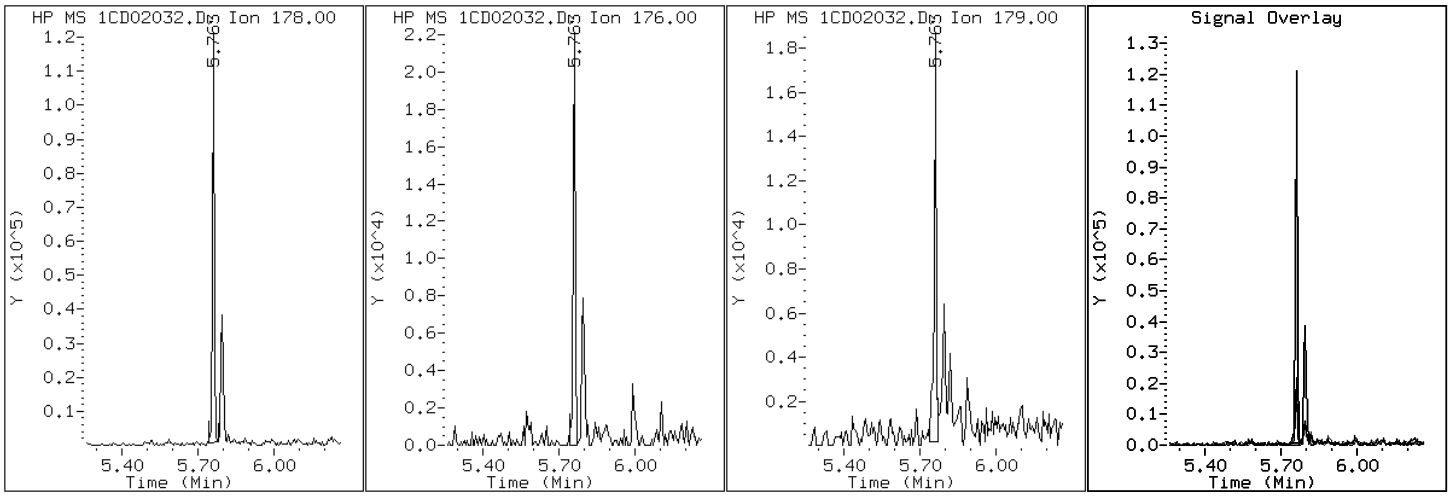
Client ID: CV0613A-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-1-a

Operator: SCC

11 Phenanthrene



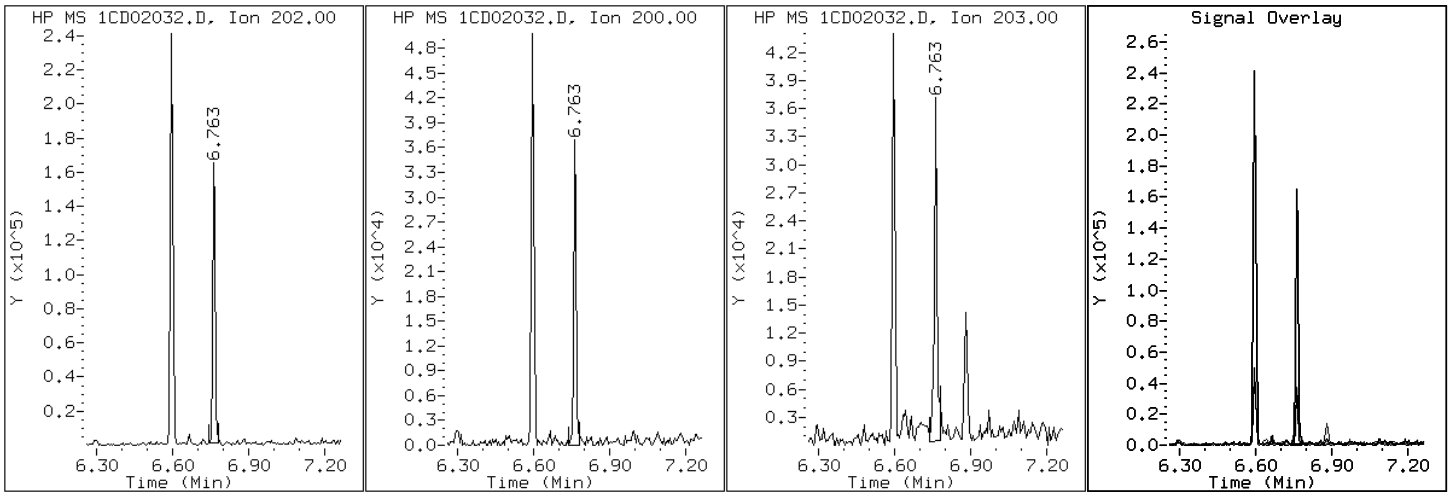
Data File: 1CD02032.D

Date: 02-APR-2013 21:51

Client ID: CV0613A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-1-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD02032.D
Inj. Date and Time: 02-APR-2013 21:51
Instrument ID: BSMC5973.i
Client ID: CV0613A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

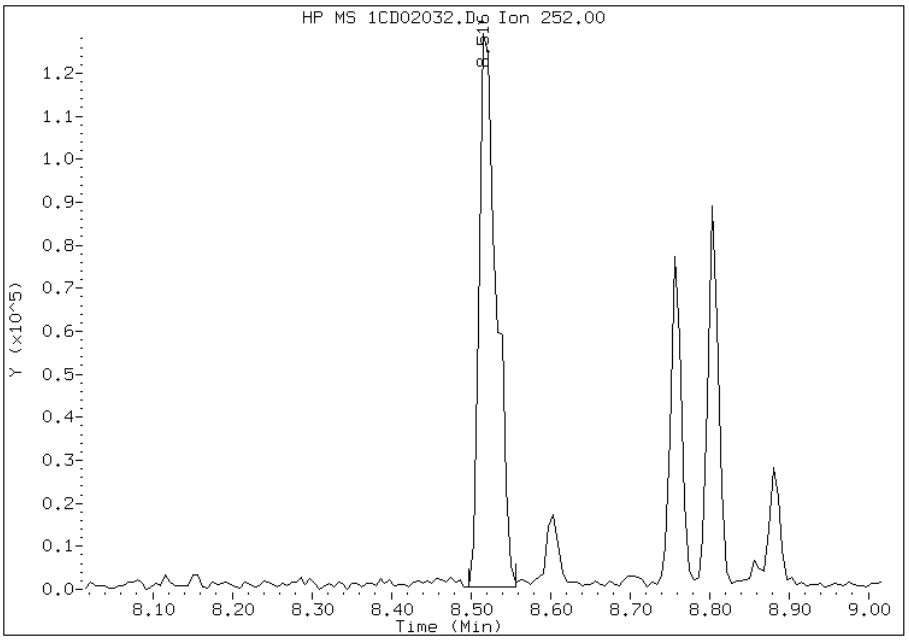
Processing Integration Results

RT: 8.52

Response: 195707

Amount: 7

Conc: 2102



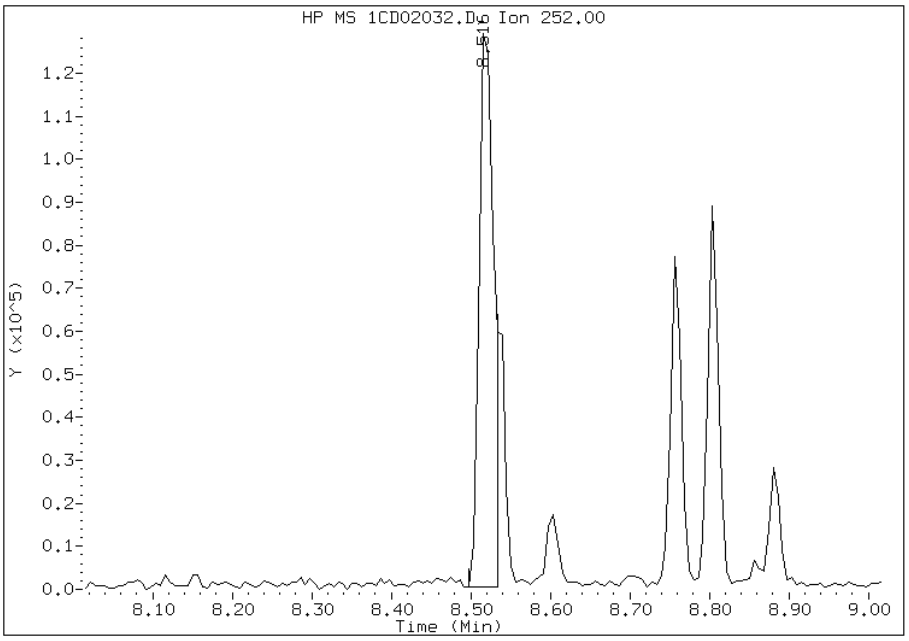
Manual Integration Results

RT: 8.52

Response: 164692

Amount: 6

Conc: 1769



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 14:55
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD02032.D
Inj. Date and Time: 02-APR-2013 21:51
Instrument ID: BSMC5973.i
Client ID: CV0613A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

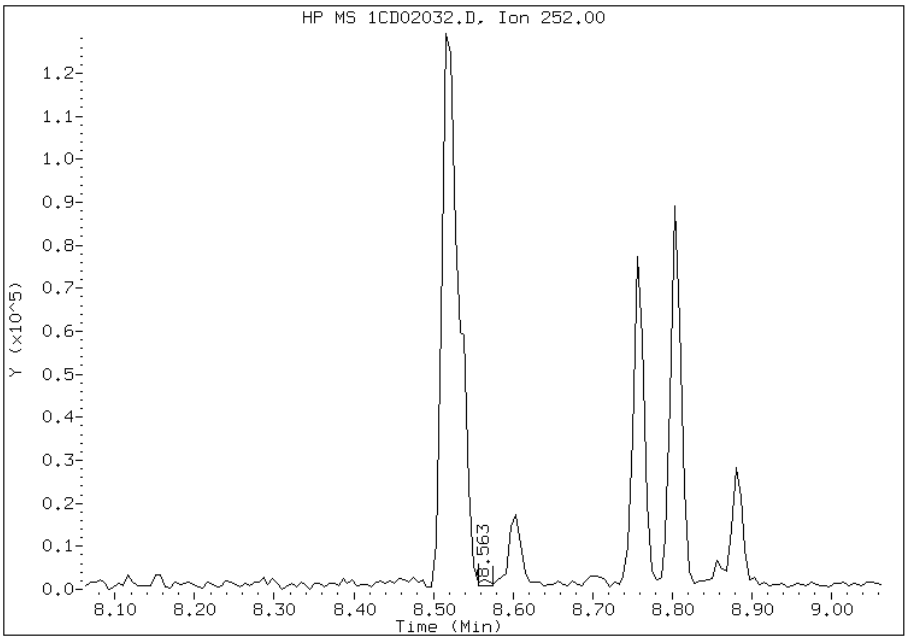
Processing Integration Results

RT: 8.56

Response: 1292

Amount: 0

Conc: 14



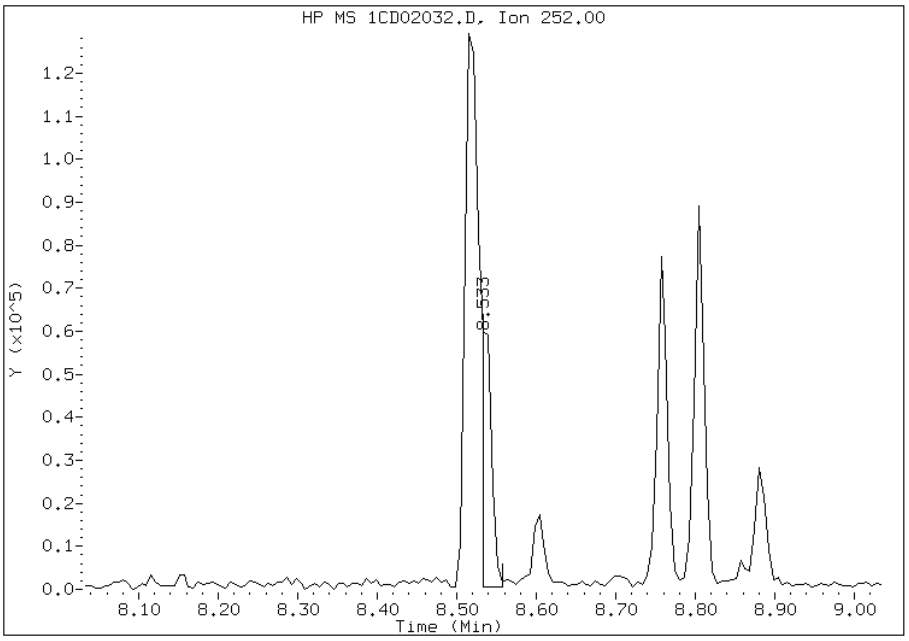
Manual Integration Results

RT: 8.53

Response: 51687

Amount: 2

Conc: 574



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 14:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD02032.D
Inj. Date and Time: 02-APR-2013 21:51
Instrument ID: BSMC5973.i
Client ID: CV0613A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

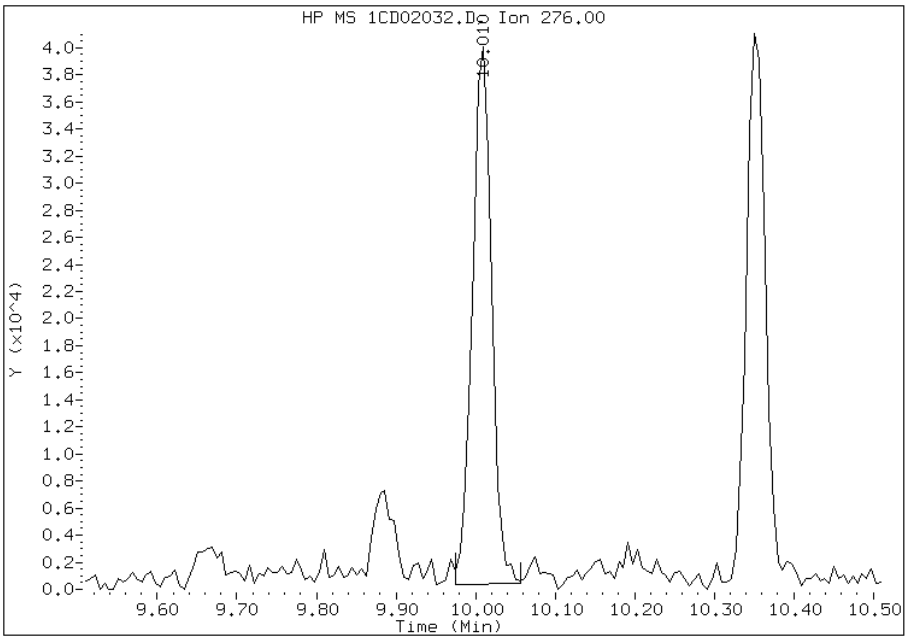
Processing Integration Results

RT: 10.01

Response: 66063

Amount: 3

Conc: 793



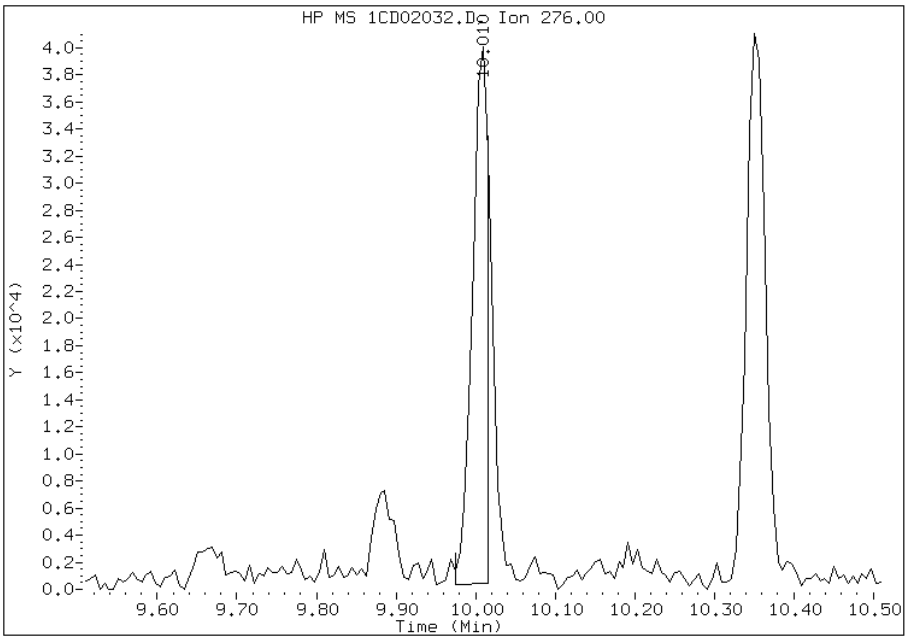
Manual Integration Results

RT: 10.01

Response: 54544

Amount: 2

Conc: 655



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 14:55
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-1

SDG No.: 68088766-1

Client Sample ID: CV0613A-CSD | Lab Sample ID: 680-88766-2

Matrix: Solid | Lab File ID: 1CD02033.D

Analysis Method: 8270C LL | Date Collected: 03/25/2013 13:15

Extract. Method: 3546 | Date Extracted: 03/29/2013 10:19

Sample wt/vol: 14.96(g) | Date Analyzed: 04/02/2013 22:09

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.: 136079 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	34	J	120	24
208-96-8	Acenaphthylene	75		47	5.9
120-12-7	Anthracene	150		9.9	5.0
56-55-3	Benzo[a]anthracene	530		9.5	4.6
50-32-8	Benzo[a]pyrene	490		12	6.2
205-99-2	Benzo[b]fluoranthene	850		14	7.2
191-24-2	Benzo[g,h,i]perylene	360		24	5.2
207-08-9	Benzo[k]fluoranthene	370		9.5	4.3
218-01-9	Chrysene	520		11	5.3
53-70-3	Dibenz(a,h)anthracene	130		24	4.9
206-44-0	Fluoranthene	860		24	4.7
86-73-7	Fluorene	38		24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	350		24	8.4
90-12-0	1-Methylnaphthalene	65		47	5.2
91-57-6	2-Methylnaphthalene	96		47	8.4
91-20-3	Naphthalene	88		47	5.2
85-01-8	Phenanthrene	400		9.5	4.6
129-00-0	Pyrene	810		24	4.4

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\1C040213B.b\1CD02033.D
Lab Smp Id: 680-88766-A-2-A Client Smp ID: CV0613A-CSD
Inj Date : 02-APR-2013 22:09
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88766-a-2-a
Misc Info : 680-88766-A-2-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 16:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 32
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	15.310	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	653277	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	571255	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	1062199	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	87836	5.79158	457.1236
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	1192221	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	1107324	40.0000	
2 Naphthalene	128	3.727	3.721	(1.005)	18695	1.11417	87.9404
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	13869	1.21424	95.8389
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	8479	0.82501	65.1168
5 Acenaphthylene	152	4.710	4.710	(0.982)	22572	0.95471	75.3540
7 Acenaphthene	154	4.821	4.821	(1.005)	6293	0.42974	33.9191
9 Fluorene	166	5.139	5.139	(1.071)	9474	0.48531	38.3052
11 Phenanthrene	178	5.763	5.763	(1.003)	158727	5.13079	404.9679
12 Anthracene	178	5.798	5.798	(1.009)	61523	1.96182	154.8442

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.904	5.904	(1.028)	25368	0.94418	74.5233
15 Fluoranthene	202	6.598	6.598	(1.148)	373709	10.9383	863.3505
16 Pyrene	202	6.768	6.762	(0.881)	340547	10.3117	813.8884
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	227224	6.71335	529.8774
19 Chrysene	228	7.704	7.704	(1.002)	225015	6.62333	522.7726
20 Benzo(b)fluoranthene	252	8.521	8.521	(0.962)	336823	10.7594	849.2286(M)
21 Benzo(k)fluoranthene	252	8.533	8.545	(0.963)	142794	4.71617	372.2420(QMH)
22 Benzo(a)pyrene	252	8.809	8.809	(0.994)	182146	6.18011	487.7900
24 Indeno(1,2,3-cd)pyrene	276	10.015	10.015	(1.130)	123961	4.42818	349.5114(M)
25 Dibenzo(a,h)anthracene	278	10.027	10.027	(1.131)	43871	1.69651	133.9037
26 Benzo(g,h,i)perylene	276	10.362	10.356	(1.169)	131183	4.59149	362.4016

QC Flag Legend

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

Data File: 1CD02033.D

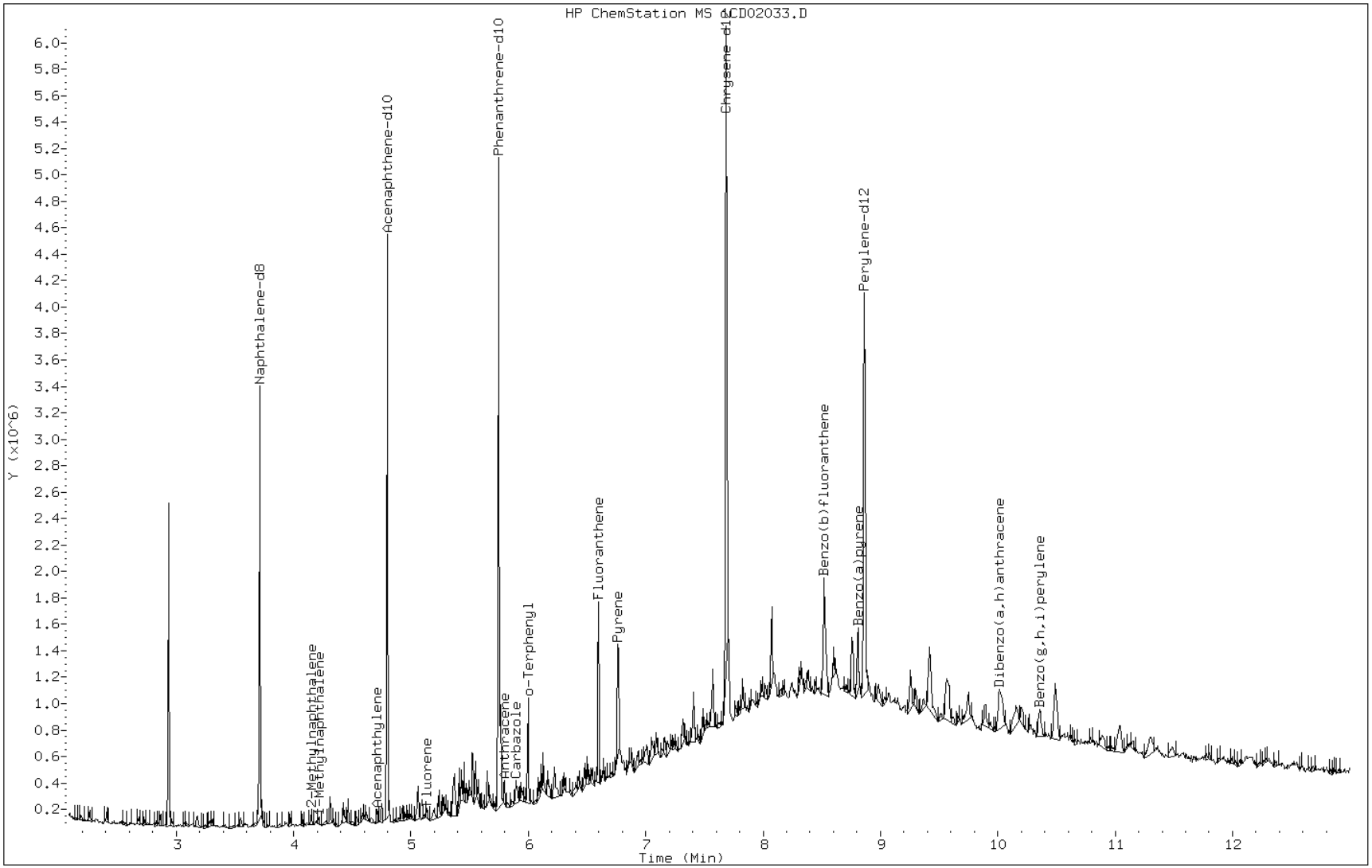
Date: 02-APR-2013 22:09

Client ID: CV0613A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88766-a-2-a

Operator: SCC



Data File: 1CD02033.D

Date: 02-APR-2013 22:09

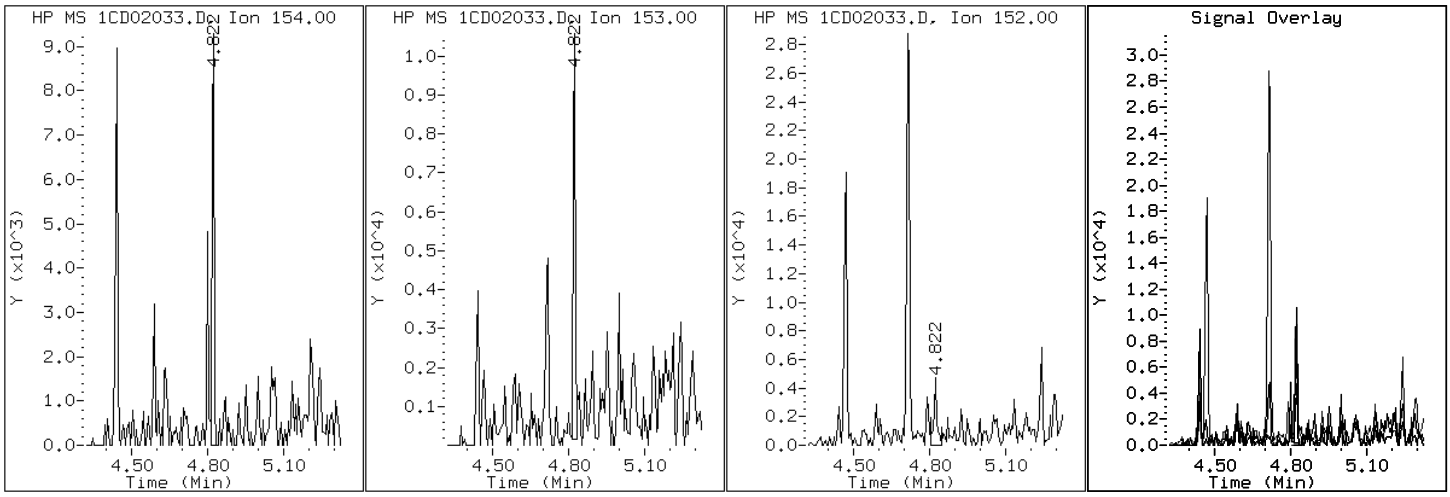
Client ID: CV0613A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88766-a-2-a

Operator: SCC

7 Acenaphthene



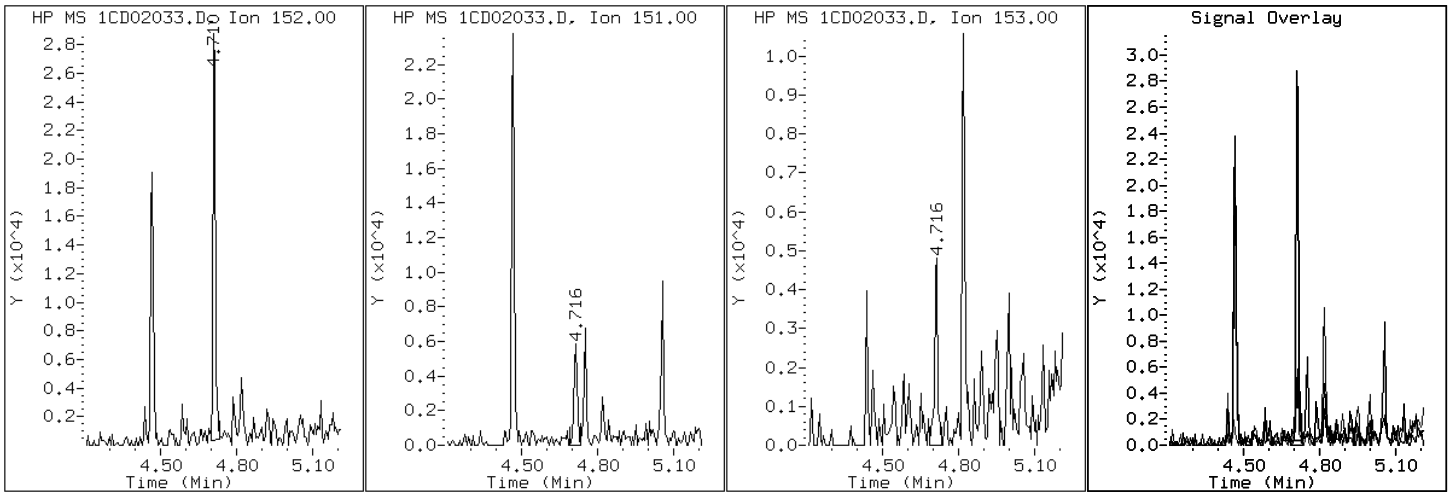
Data File: 1CD02033.D

Date: 02-APR-2013 22:09

Client ID: CV0613A-CSD Instrument: BSMC5973.i

Sample Info: 680-88766-a-2-a Operator: SCC

5 Acenaphthylene



Data File: 1CD02033.D

Date: 02-APR-2013 22:09

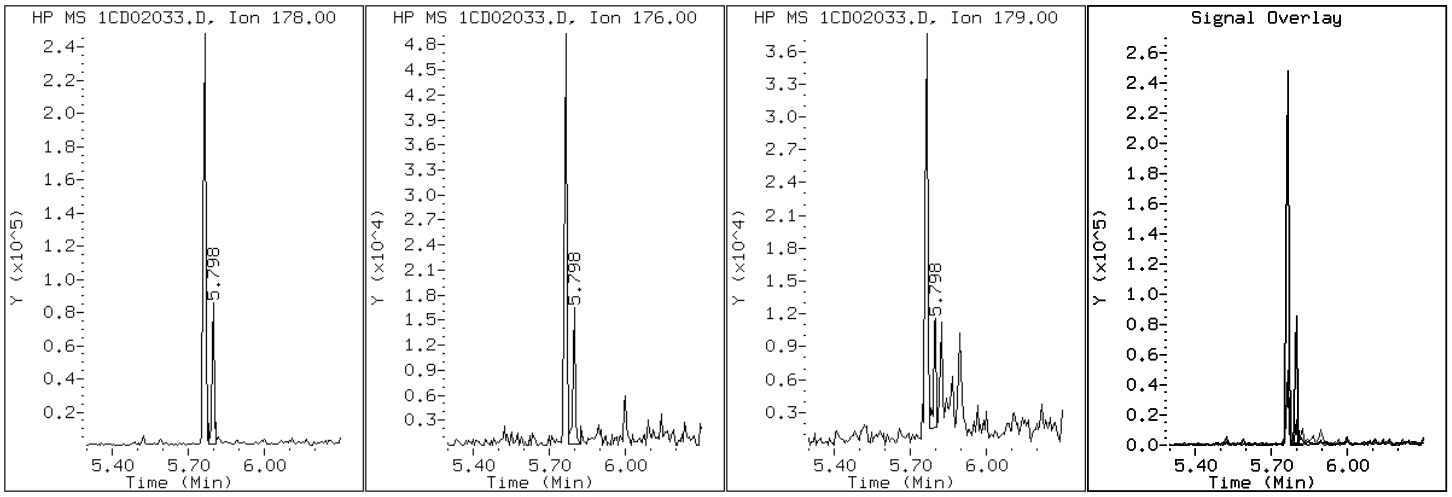
Client ID: CV0613A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88766-a-2-a

Operator: SCC

12 Anthracene



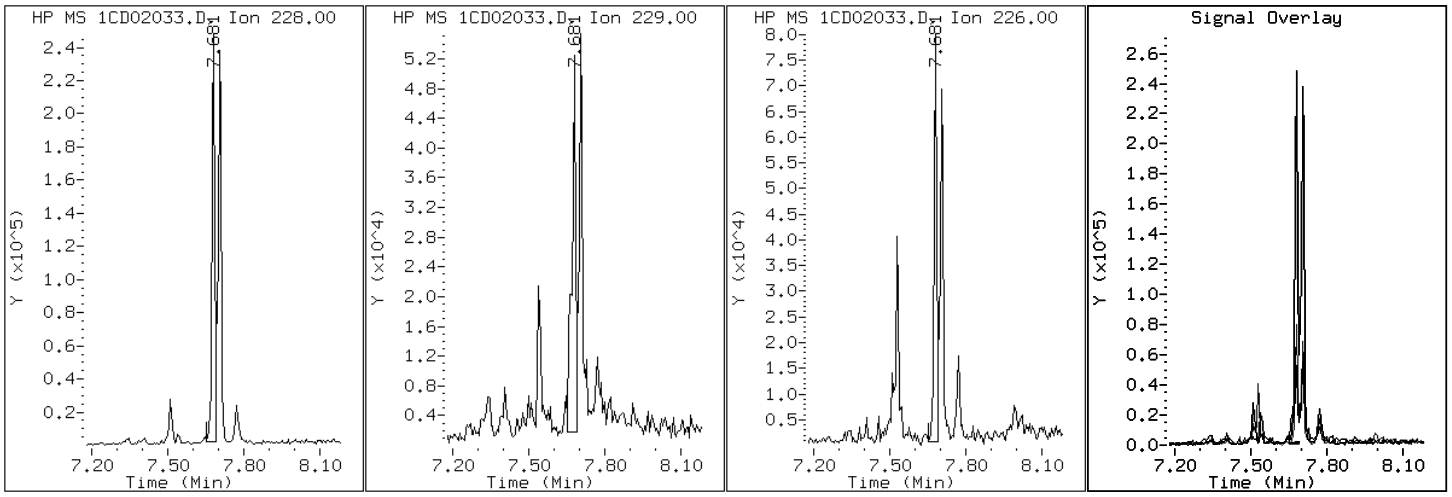
Data File: 1CD02033.D

Date: 02-APR-2013 22:09

Client ID: CV0613A-CSD Instrument: BSMC5973.i

Sample Info: 680-88766-a-2-a Operator: SCC

17 Benzo(a)anthracene



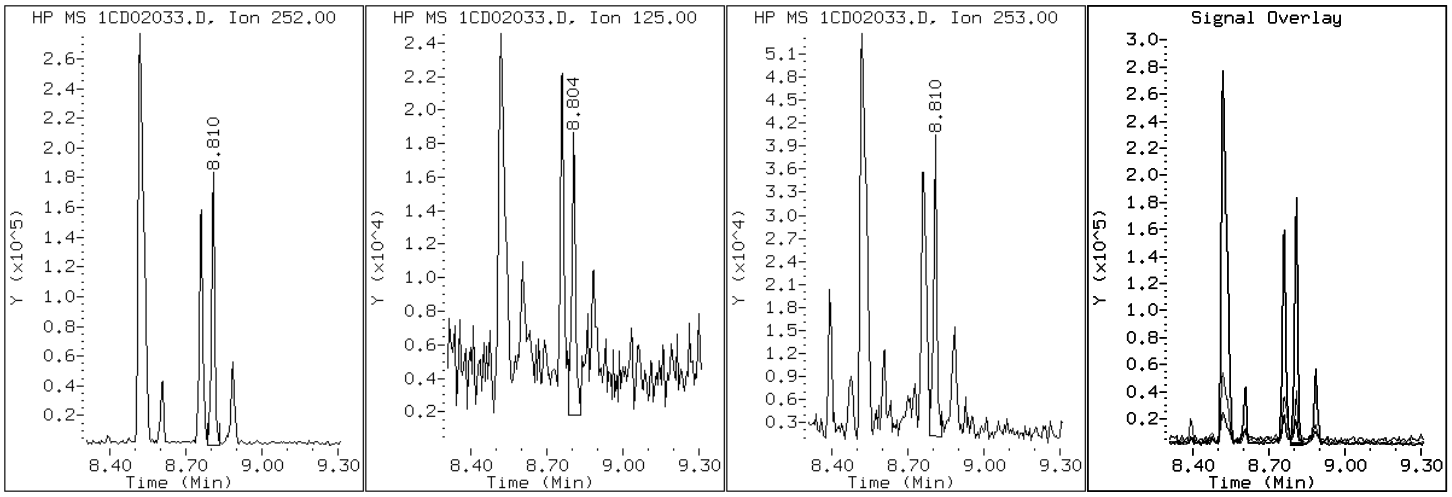
Data File: 1CD02033.D

Date: 02-APR-2013 22:09

Client ID: CV0613A-CSD Instrument: BSMC5973.i

Sample Info: 680-88766-a-2-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD02033.D

Date: 02-APR-2013 22:09

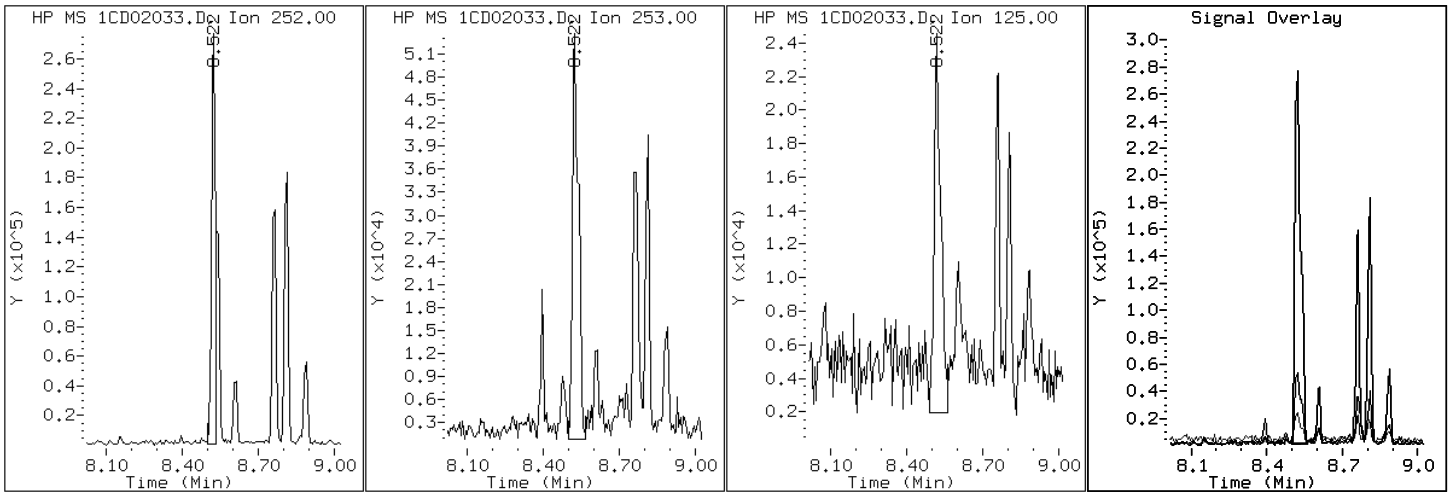
Client ID: CV0613A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88766-a-2-a

Operator: SCC

20 Benzo(b)fluoranthene



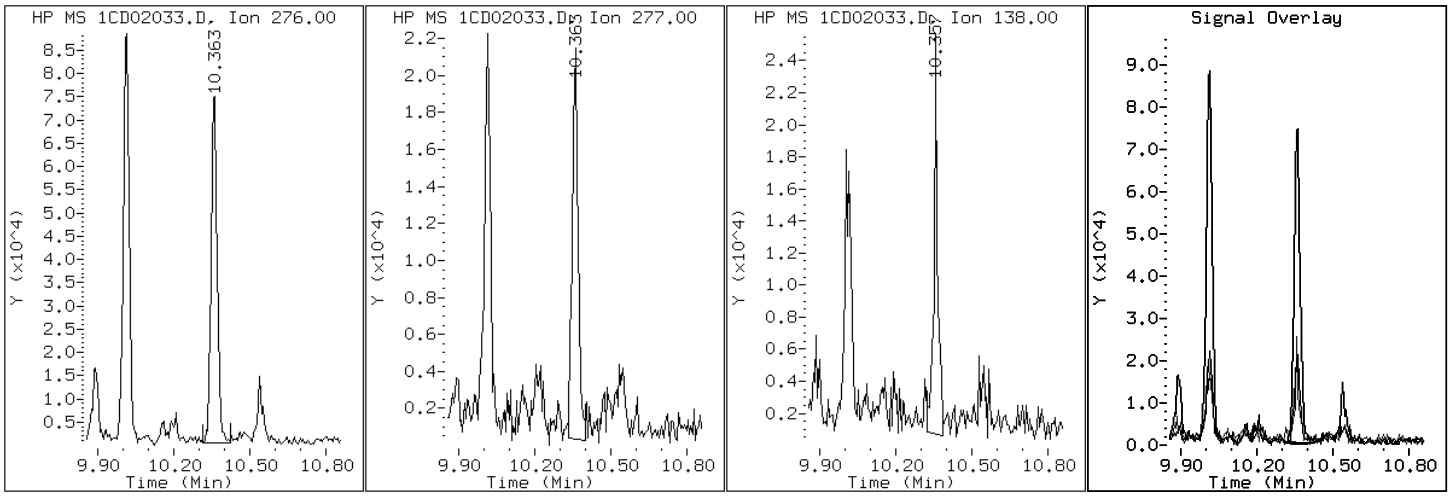
Data File: 1CD02033.D

Date: 02-APR-2013 22:09

Client ID: CV0613A-CSD Instrument: BSMC5973.i

Sample Info: 680-88766-a-2-a Operator: SCC

26 Benzo(g,h,i)perylene



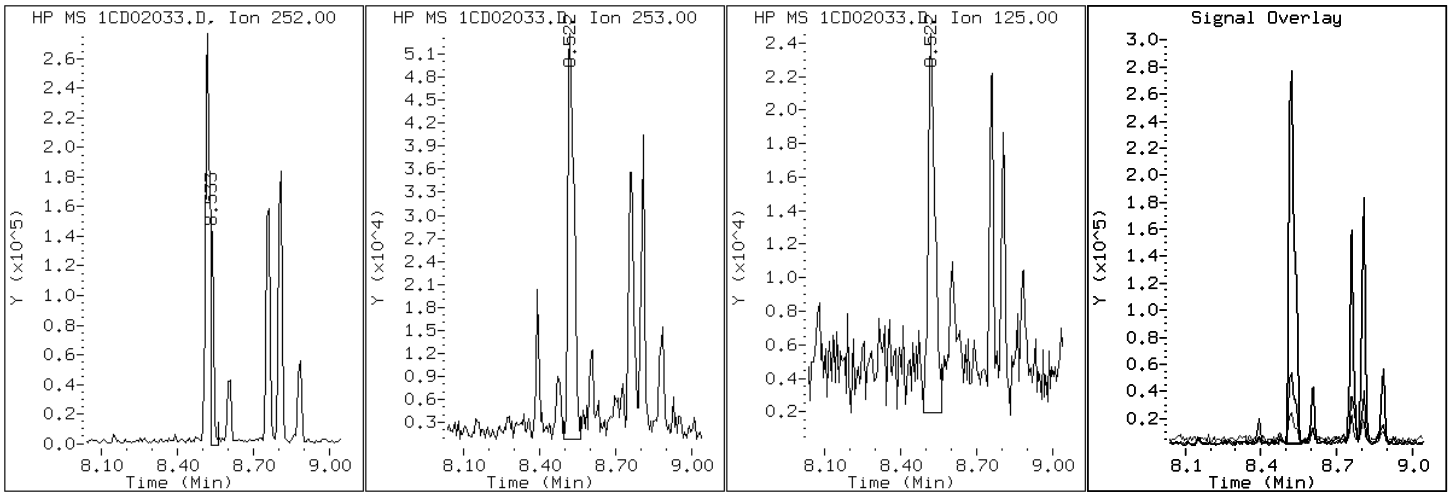
Data File: 1CD02033.D

Date: 02-APR-2013 22:09

Client ID: CV0613A-CSD Instrument: BSMC5973.i

Sample Info: 680-88766-a-2-a Operator: SCC

21 Benzo(k)fluoranthene



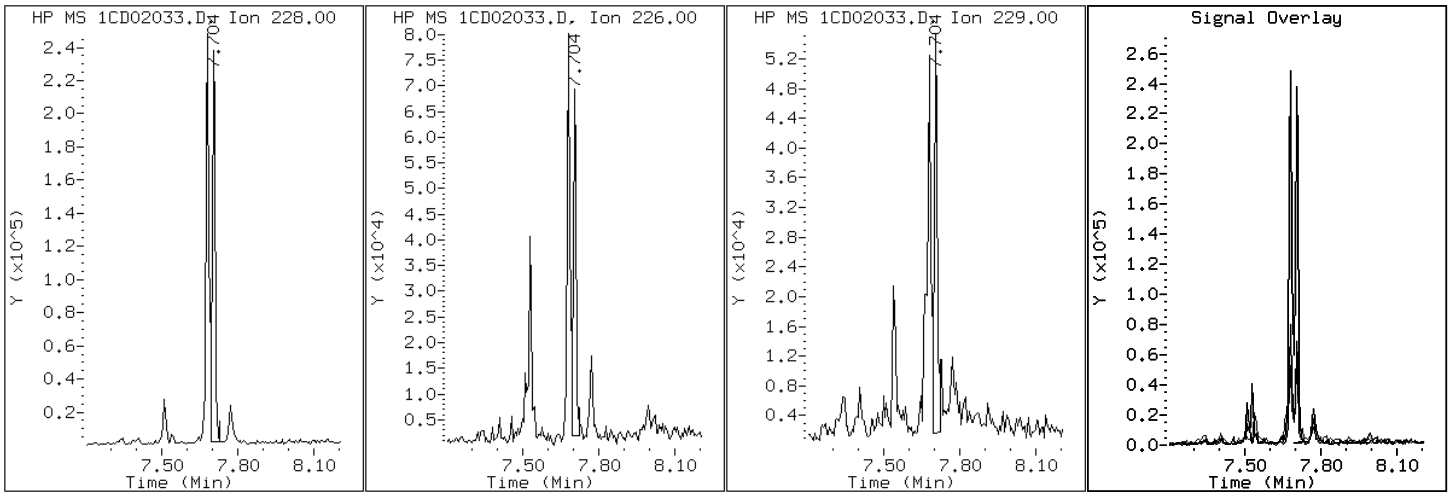
Data File: 1CD02033.D

Date: 02-APR-2013 22:09

Client ID: CV0613A-CSD Instrument: BSMC5973.i

Sample Info: 680-88766-a-2-a Operator: SCC

19 Chrysene



Data File: 1CD02033.D

Date: 02-APR-2013 22:09

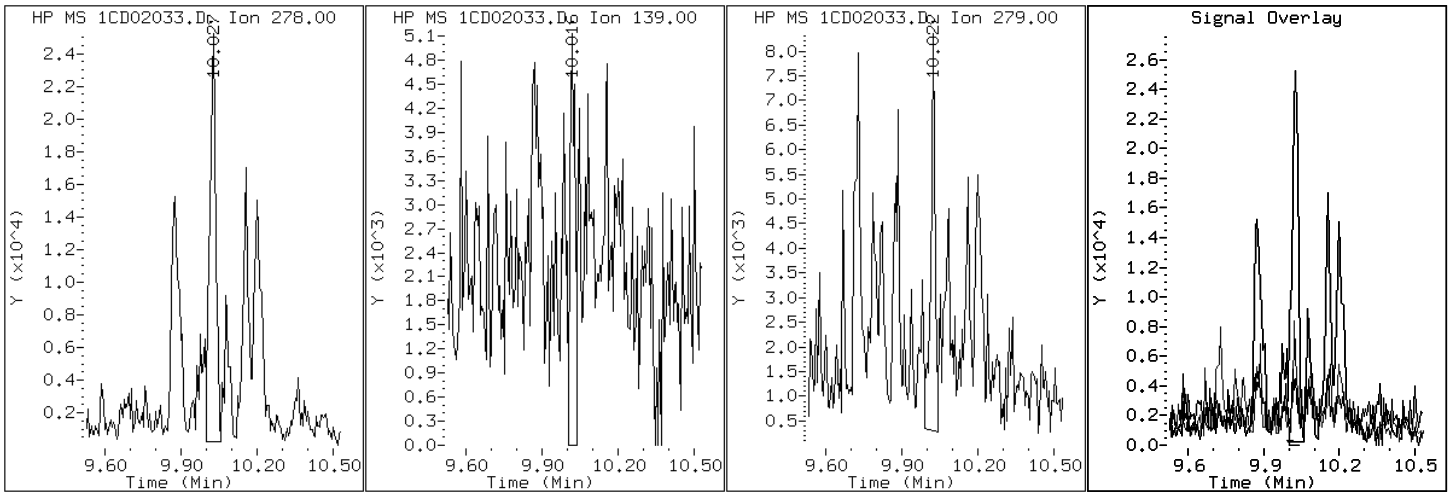
Client ID: CV0613A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88766-a-2-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD02033.D

Date: 02-APR-2013 22:09

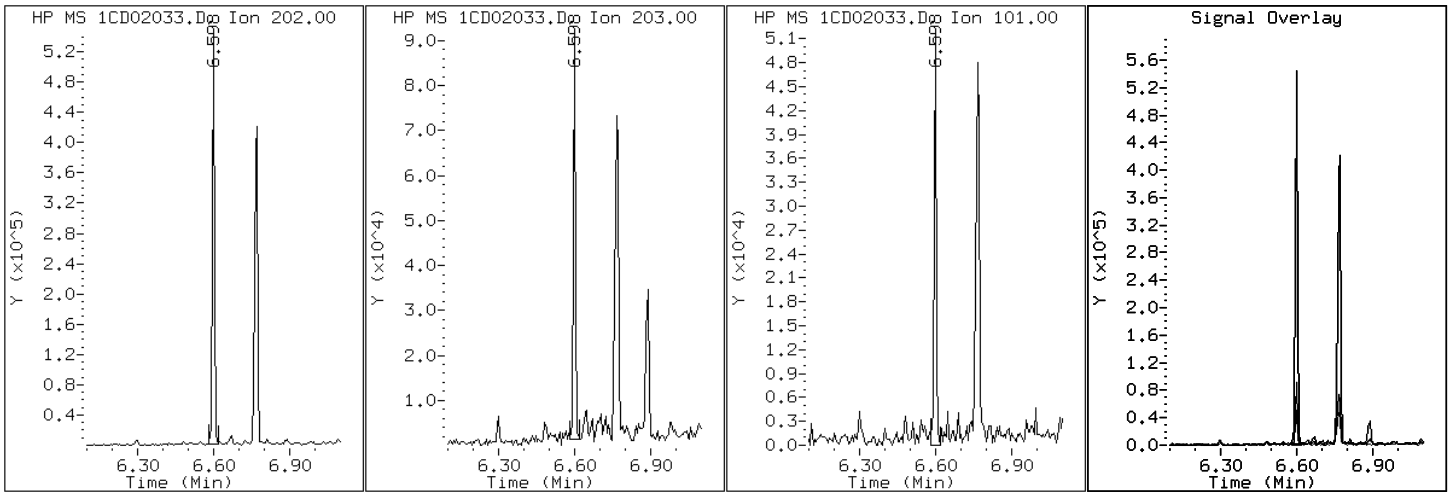
Client ID: CV0613A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88766-a-2-a

Operator: SCC

15 Fluoranthene



Data File: 1CD02033.D

Date: 02-APR-2013 22:09

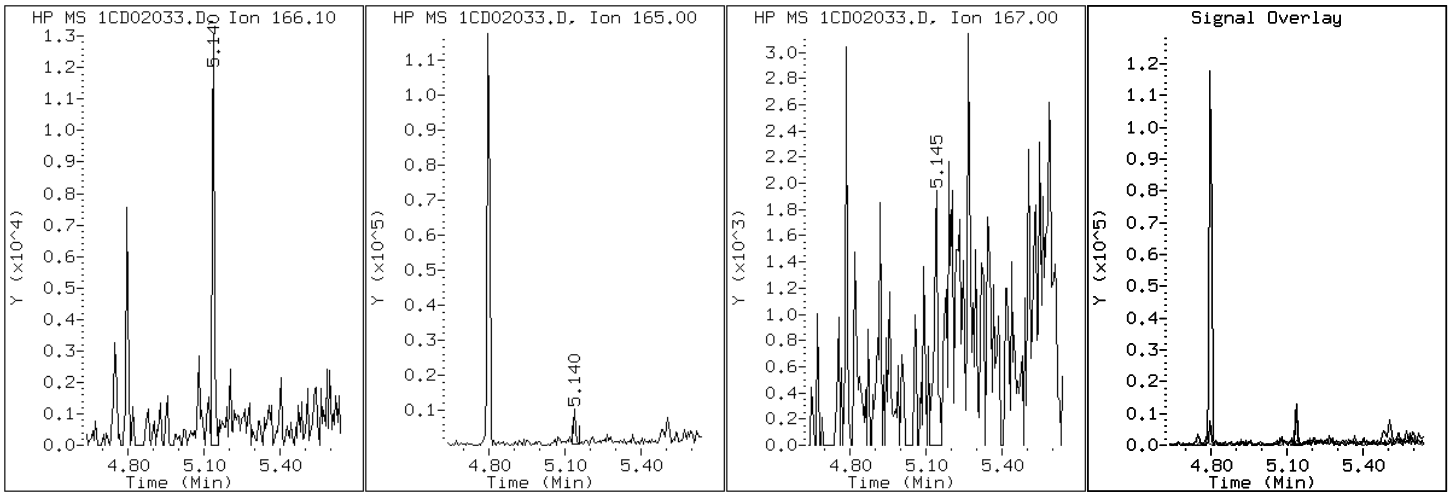
Client ID: CV0613A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88766-a-2-a

Operator: SCC

9 Fluorene



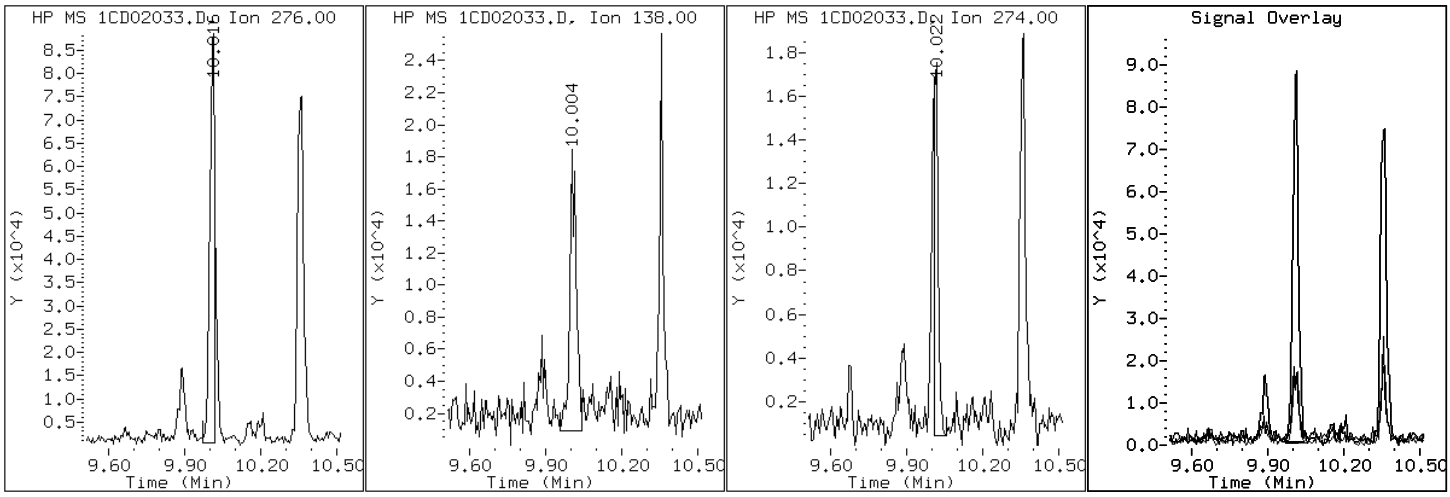
Data File: 1CD02033.D

Date: 02-APR-2013 22:09

Client ID: CV0613A-CSD Instrument: BSMC5973.i

Sample Info: 680-88766-a-2-a Operator: SCC

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



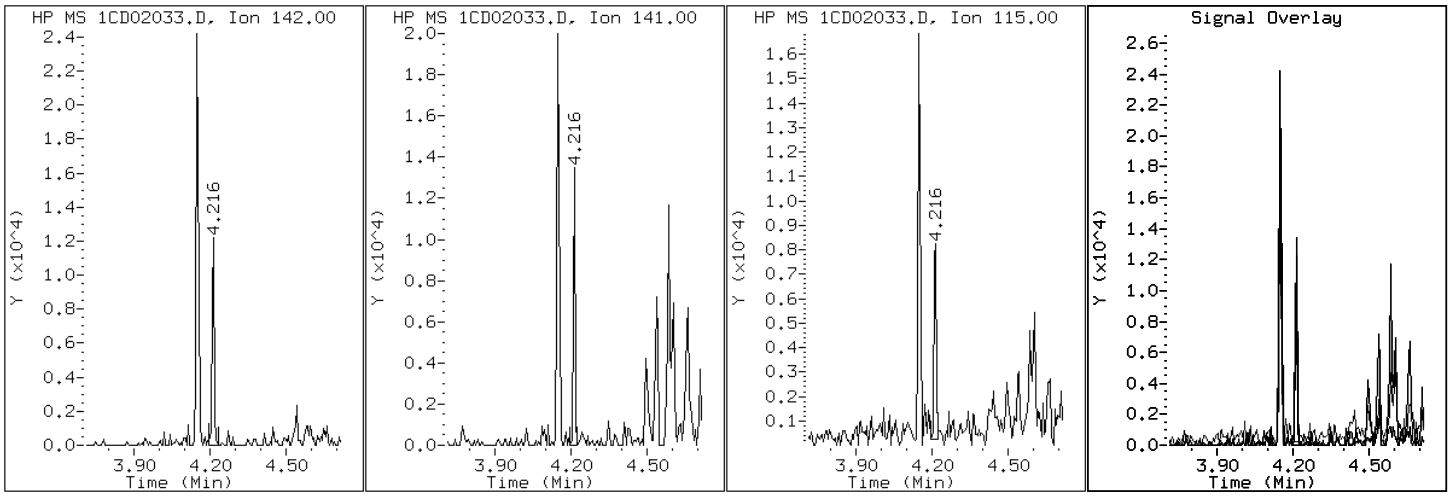
Data File: 1CD02033.D

Date: 02-APR-2013 22:09

Client ID: CV0613A-CSD Instrument: BSMC5973.i

Sample Info: 680-88766-a-2-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD02033.D

Date: 02-APR-2013 22:09

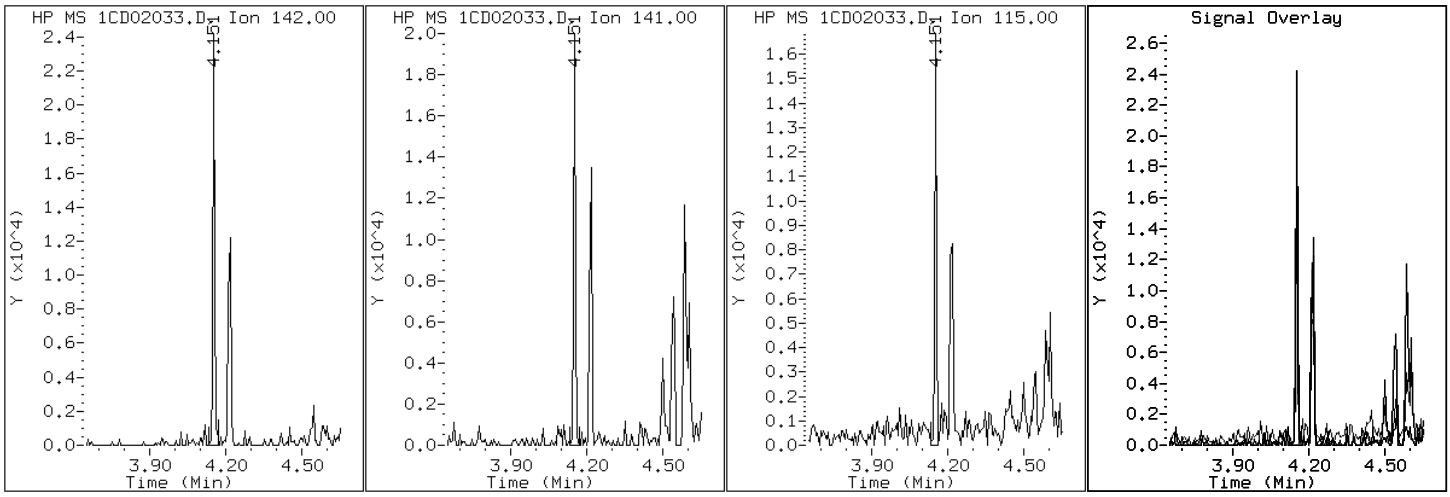
Client ID: CV0613A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88766-a-2-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD02033.D

Date: 02-APR-2013 22:09

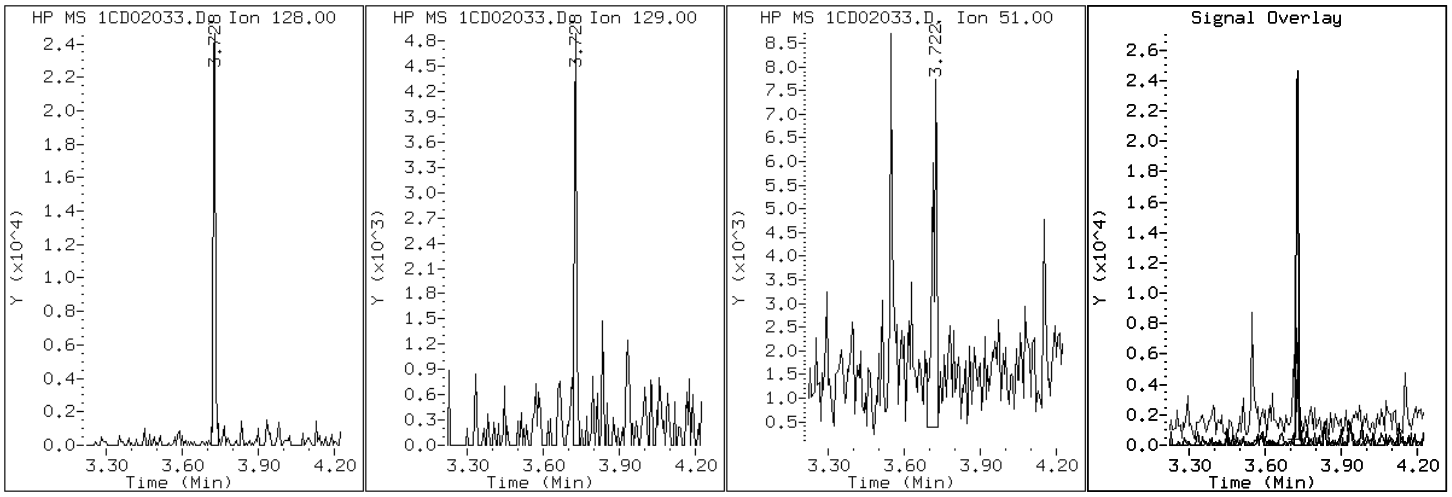
Client ID: CV0613A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88766-a-2-a

Operator: SCC

2 Naphthalene



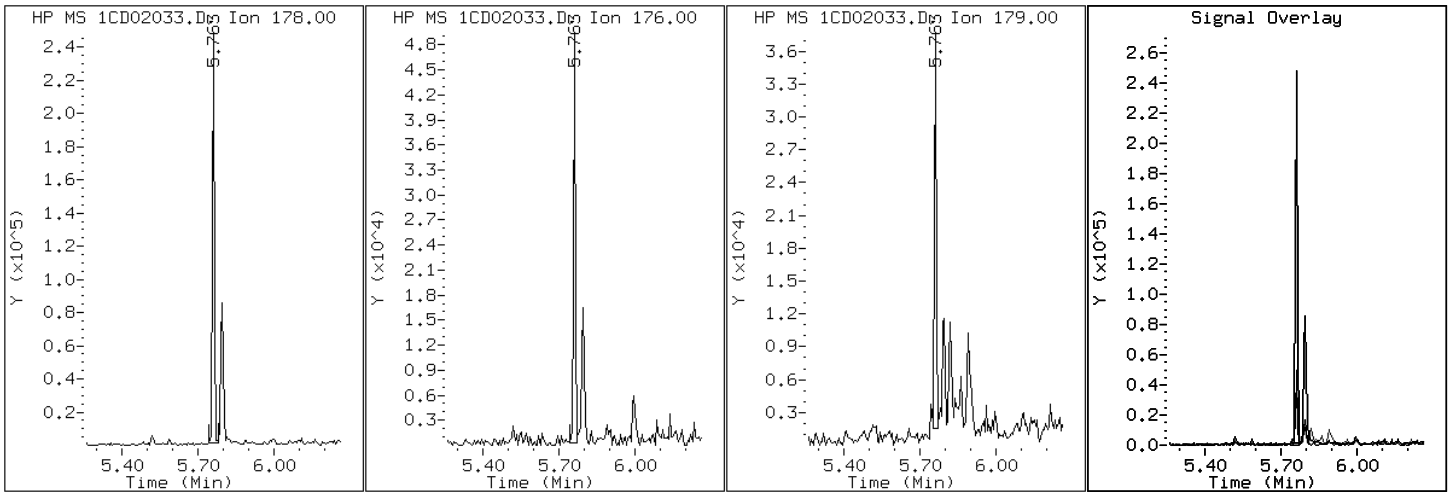
Data File: 1CD02033.D

Date: 02-APR-2013 22:09

Client ID: CV0613A-CSD Instrument: BSMC5973.i

Sample Info: 680-88766-a-2-a Operator: SCC

11 Phenanthrene



Data File: 1CD02033.D

Date: 02-APR-2013 22:09

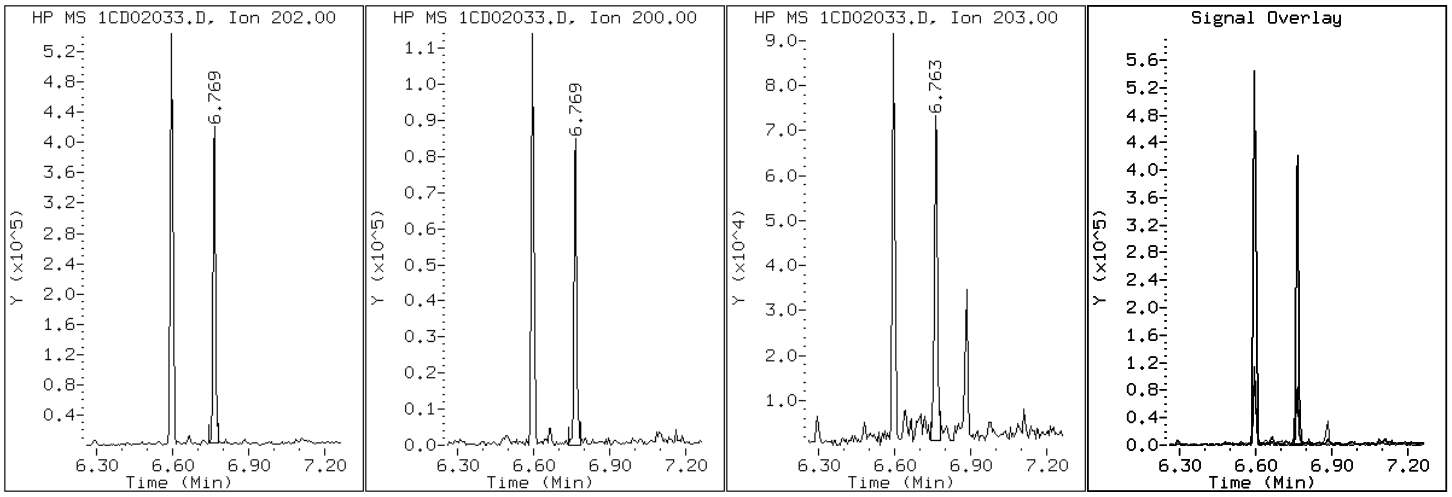
Client ID: CV0613A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88766-a-2-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD02033.D
Inj. Date and Time: 02-APR-2013 22:09
Instrument ID: BSMC5973.i
Client ID: CV0613A-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

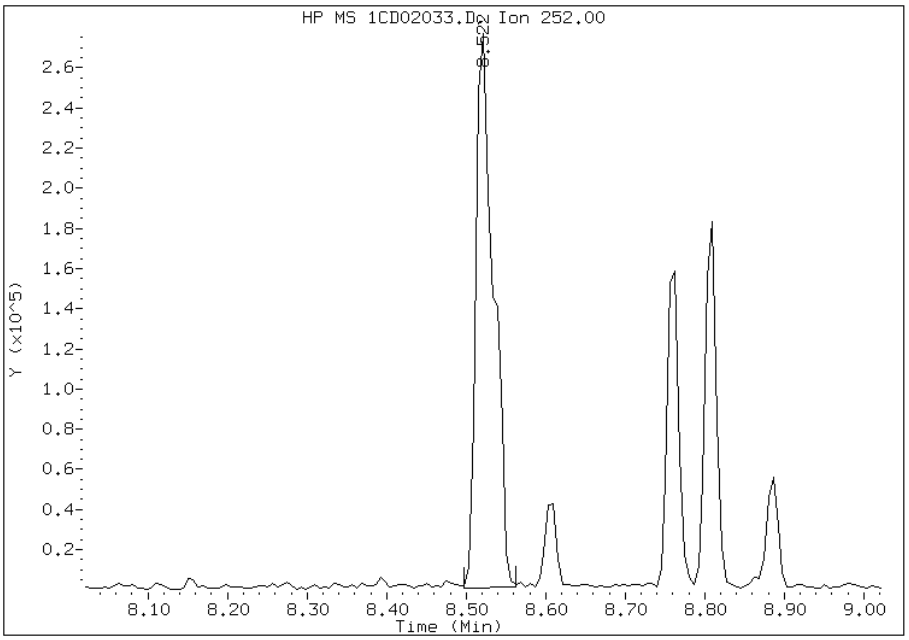
Processing Integration Results

RT: 8.52

Response: 423287

Amount: 14

Conc: 1067



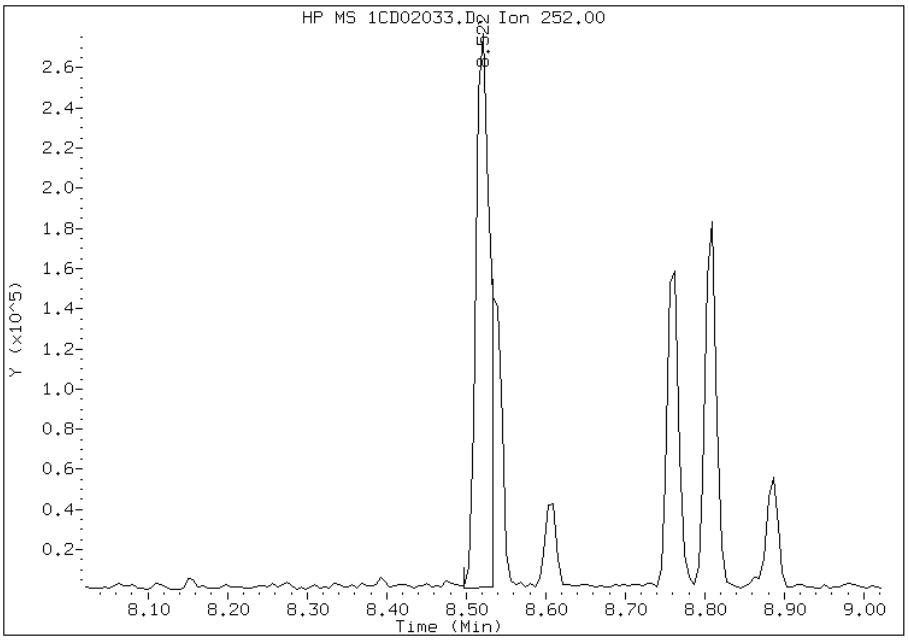
Manual Integration Results

RT: 8.52

Response: 336823

Amount: 11

Conc: 849



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 14:56
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD02033.D
Inj. Date and Time: 02-APR-2013 22:09
Instrument ID: BSMC5973.i
Client ID: CV0613A-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

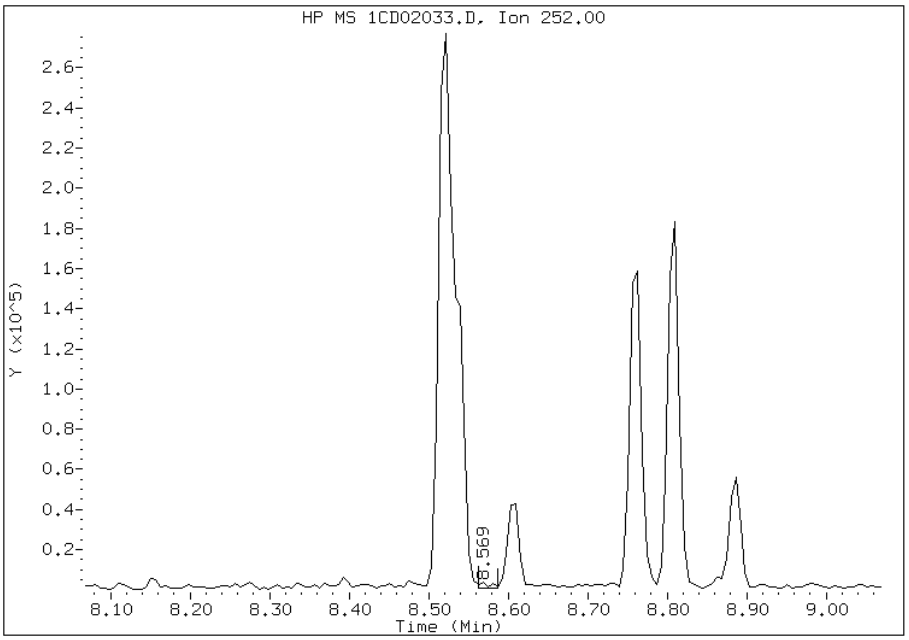
Processing Integration Results

RT: 8.57

Response: 3308

Amount: 0

Conc: 9



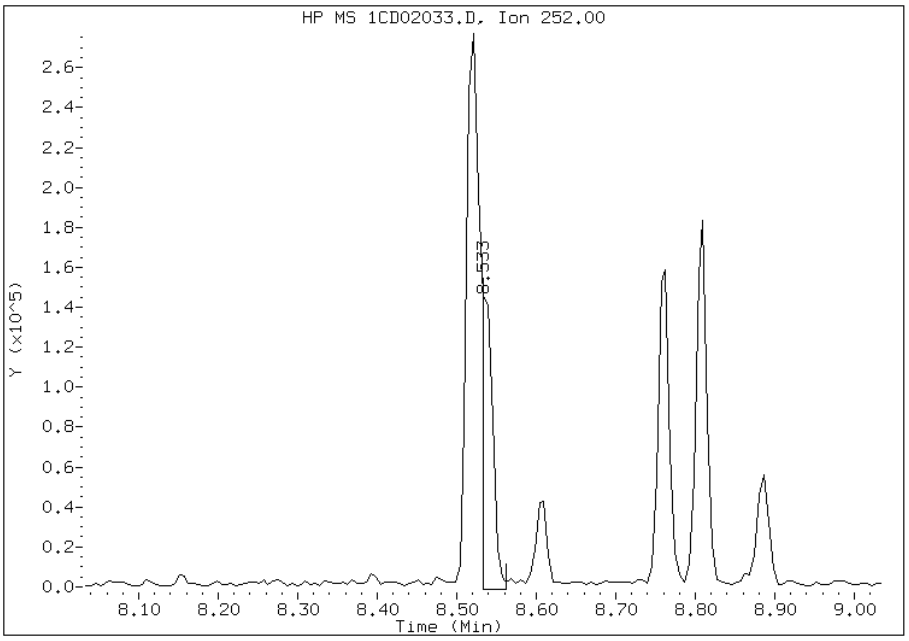
Manual Integration Results

RT: 8.53

Response: 142794

Amount: 5

Conc: 372



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 14:56
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD02033.D
Inj. Date and Time: 02-APR-2013 22:09
Instrument ID: BSMC5973.i
Client ID: CV0613A-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

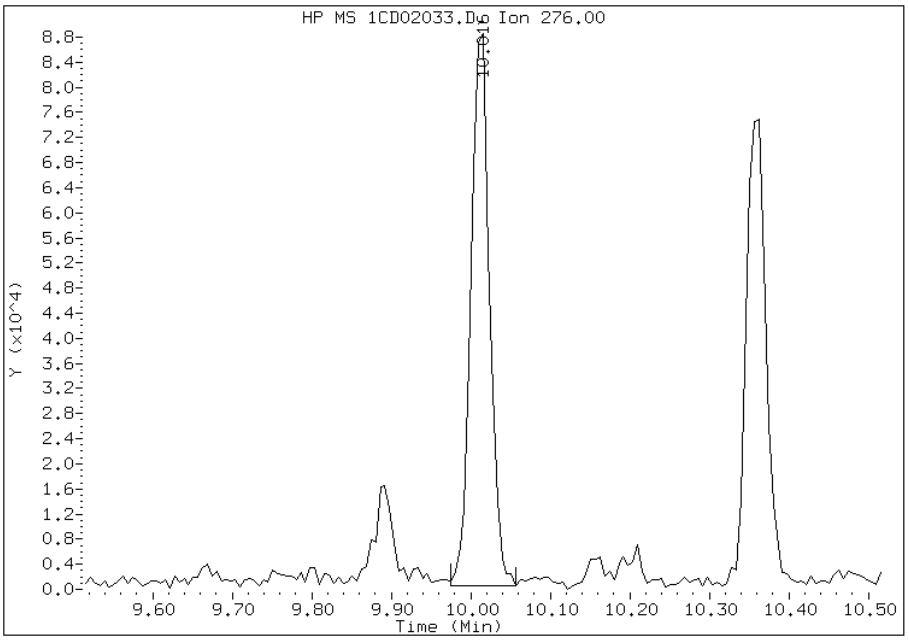
Processing Integration Results

RT: 10.02

Response: 142599

Amount: 5

Conc: 402



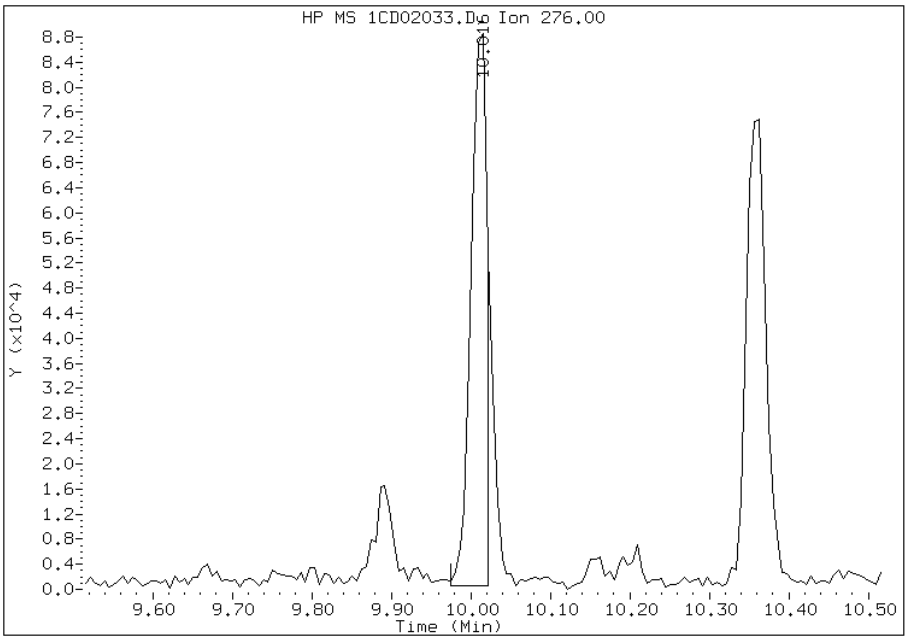
Manual Integration Results

RT: 10.02

Response: 123961

Amount: 4

Conc: 350



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 14:56
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-1

SDG No.: 68088766-1

Client Sample ID: CV0613B-CS | Lab Sample ID: 680-88766-3

Matrix: Solid | Lab File ID: 1CD02034.D

Analysis Method: 8270C LL | Date Collected: 03/25/2013 13:20

Extract. Method: 3546 | Date Extracted: 03/29/2013 10:19

Sample wt/vol: 14.89(g) | Date Analyzed: 04/02/2013 22:27

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

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

% Moisture: 15.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136079 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	400	J	470	95
208-96-8	Acenaphthylene	100	J	190	24
120-12-7	Anthracene	970		40	20
56-55-3	Benzo[a]anthracene	2600		38	19
50-32-8	Benzo[a]pyrene	2300		49	25
205-99-2	Benzo[b]fluoranthene	3800		58	29
191-24-2	Benzo[g,h,i]perylene	1800		95	21
207-08-9	Benzo[k]fluoranthene	1500		38	17
218-01-9	Chrysene	2400		43	21
53-70-3	Dibenz(a,h)anthracene	520		95	19
206-44-0	Fluoranthene	4700		95	19
86-73-7	Fluorene	330		95	19
193-39-5	Indeno[1,2,3-cd]pyrene	1600		95	34
90-12-0	1-Methylnaphthalene	160	J	190	21
91-57-6	2-Methylnaphthalene	210		190	34
91-20-3	Naphthalene	290		190	21
85-01-8	Phenanthrene	3000		38	19
129-00-0	Pyrene	4100		95	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	95		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1CD02034.D
Lab Smp Id: 680-88766-A-3-A Client Smp ID: CV0613B-CS
Inj Date : 02-APR-2013 22:27
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88766-a-3-a
Misc Info : 680-88766-A-3-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 16:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 33
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.890	Weight Extracted
M	15.099	% 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	3.710	3.710	(1.000)	648019	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	533957	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	1041236	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	28223	2.38600	754.9588
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	1145801	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	1084763	40.0000	
2 Naphthalene	128	3.727	3.721	(1.005)	15368	0.92332	292.1505
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	7490	0.66108	209.1728
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	5122	0.50241	158.9697
5 Acenaphthylene	152	4.710	4.710	(0.982)	7189	0.32531	102.9308
7 Acenaphthene	154	4.821	4.821	(1.005)	17214	1.25764	397.9329
9 Fluorene	166	5.139	5.139	(1.071)	19040	1.04347	330.1662
11 Phenanthrene	178	5.763	5.763	(1.003)	287124	9.46803	2995.7996
12 Anthracene	178	5.798	5.798	(1.009)	94613	3.07772	973.8270

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.904	5.904	(1.028)	51129	1.94130	614.2521
15 Fluoranthene	202	6.598	6.598	(1.148)	501231	14.9662	4735.4899
16 Pyrene	202	6.763	6.762	(0.880)	408455	12.8690	4071.8922
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	263430	8.07039	2553.5686
19 Chrysene	228	7.704	7.704	(1.002)	246964	7.56391	2393.3118
20 Benzo(b)fluoranthene	252	8.521	8.521	(0.962)	368600	12.0194	3803.0737(M)
21 Benzo(k)fluoranthene	252	8.539	8.545	(0.963)	139960	4.71871	1493.0555(M)
22 Benzo(a)pyrene	252	8.809	8.809	(0.994)	213426	7.39204	2338.9294
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.015	(1.129)	136653	4.98309	1576.7109(M)
25 Dibenzo(a,h)anthracene	278	10.015	10.027	(1.130)	41783	1.64937	521.8809
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	162564	5.80818	1837.7798

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD02034.D

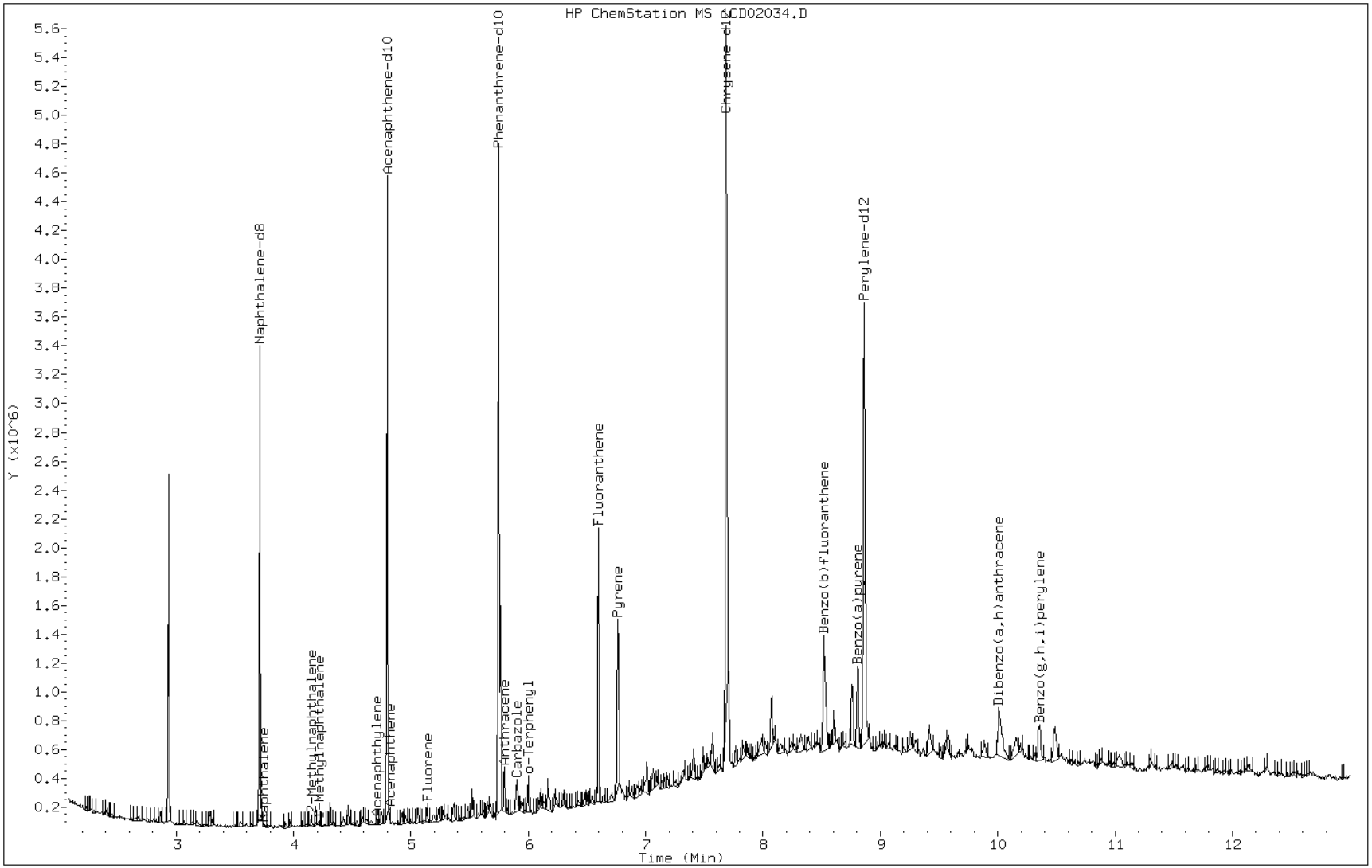
Date: 02-APR-2013 22:27

Client ID: CV0613B-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-3-a

Operator: SCC



Data File: 1CD02034.D

Date: 02-APR-2013 22:27

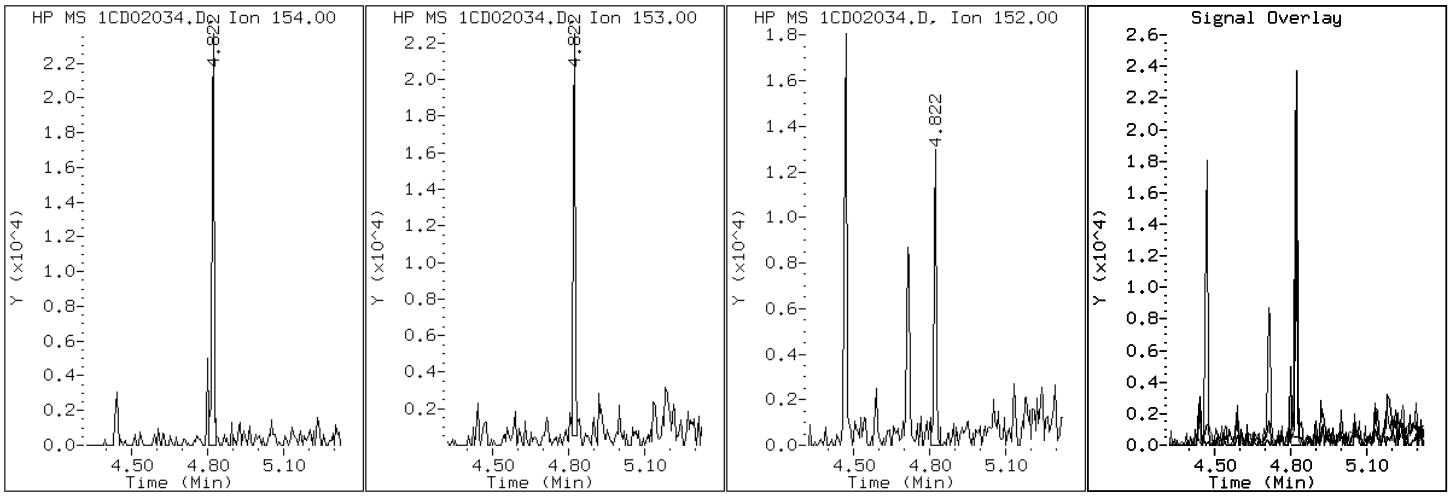
Client ID: CV0613B-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-3-a

Operator: SCC

7 Acenaphthene



Data File: 1CD02034.D

Date: 02-APR-2013 22:27

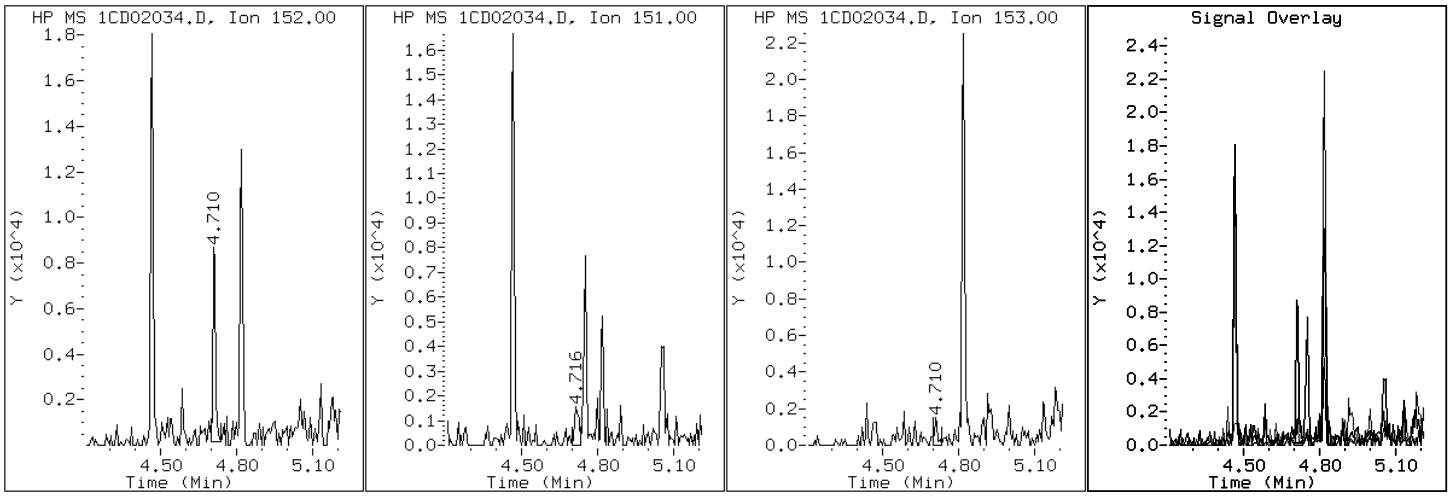
Client ID: CV0613B-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-3-a

Operator: SCC

5 Acenaphthylene



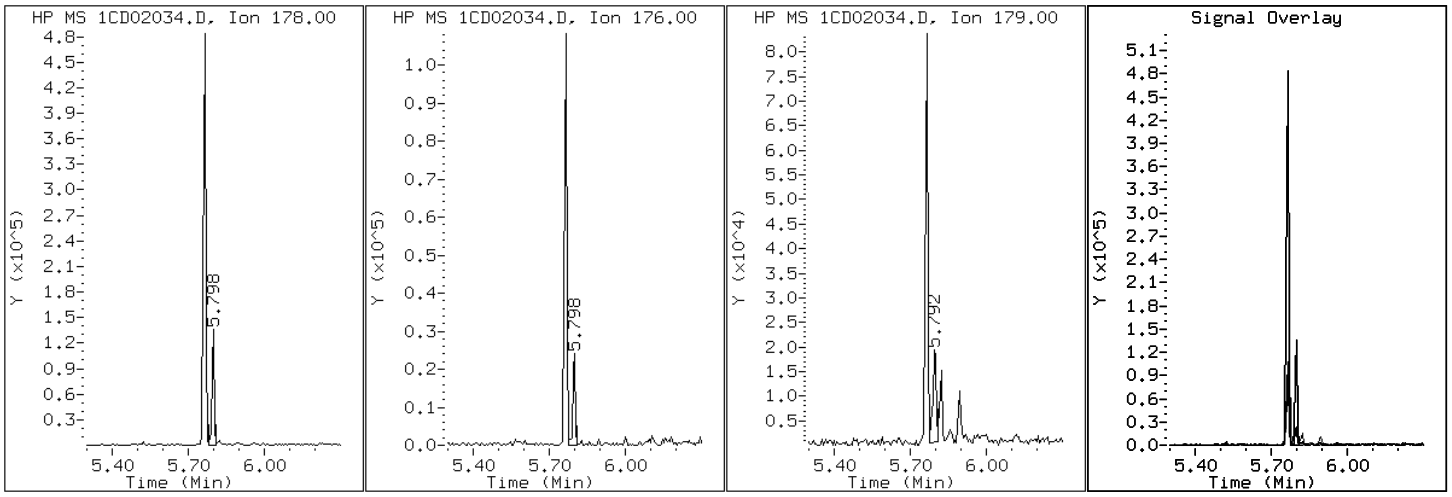
Data File: 1CD02034.D

Date: 02-APR-2013 22:27

Client ID: CV0613B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-3-a Operator: SCC

12 Anthracene



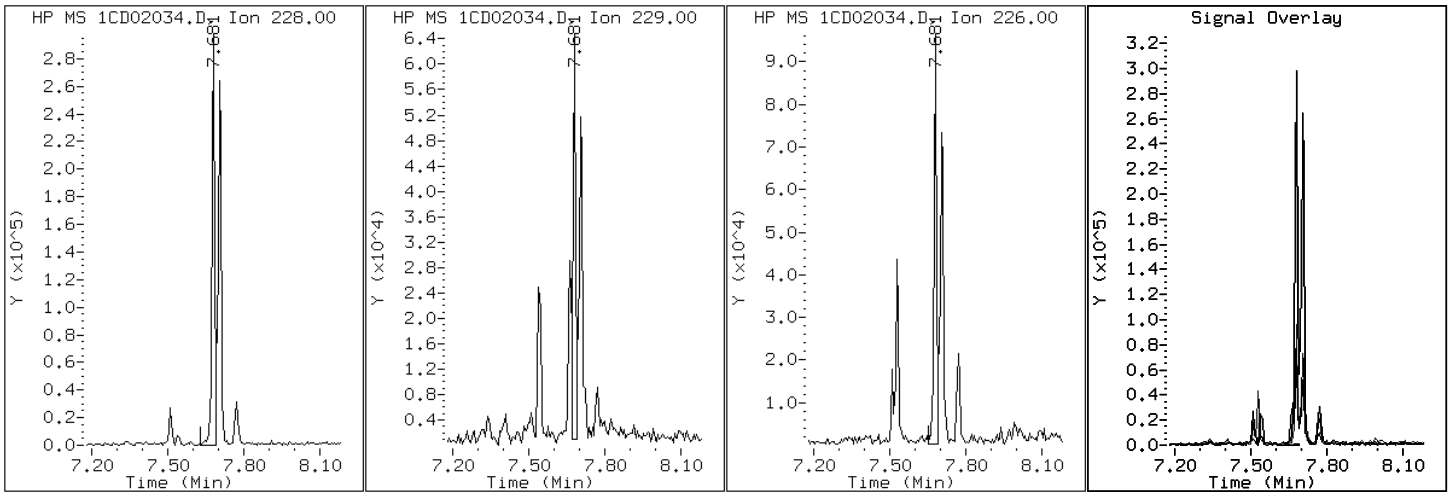
Data File: 1CD02034.D

Date: 02-APR-2013 22:27

Client ID: CV0613B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-3-a Operator: SCC

17 Benzo(a)anthracene



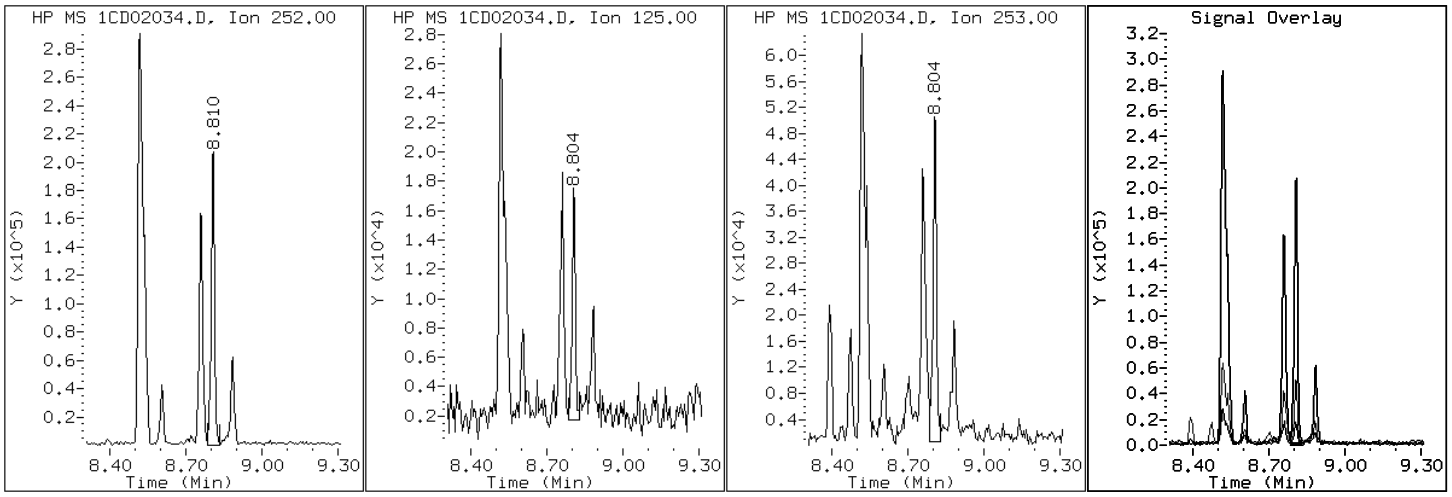
Data File: 1CD02034.D

Date: 02-APR-2013 22:27

Client ID: CV0613B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-3-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD02034.D

Date: 02-APR-2013 22:27

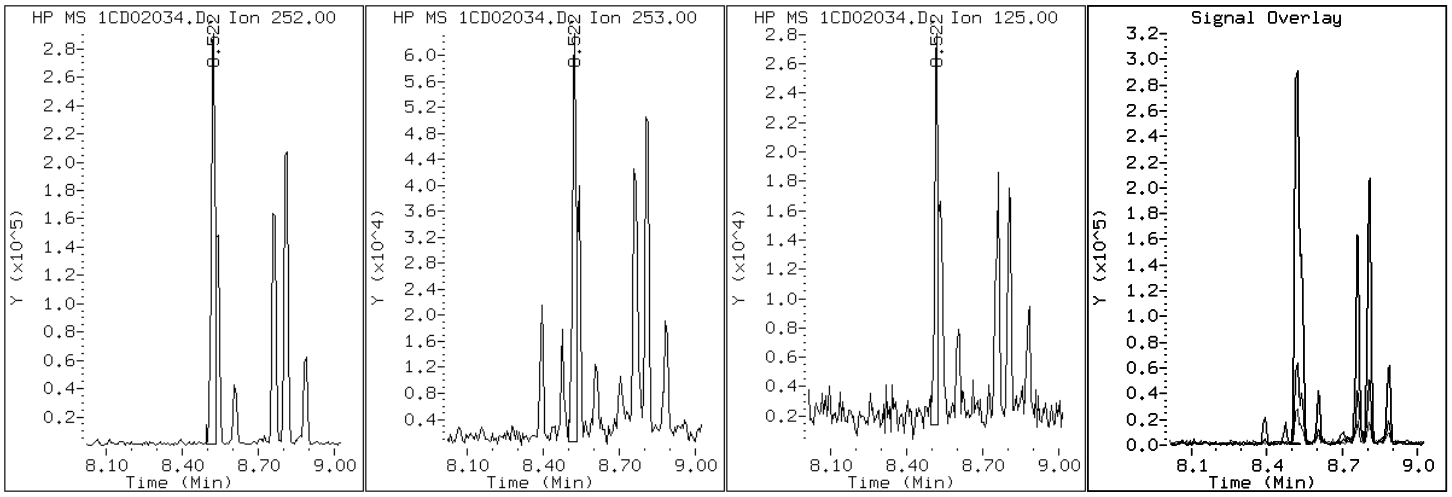
Client ID: CV0613B-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-3-a

Operator: SCC

20 Benzo(b)fluoranthene



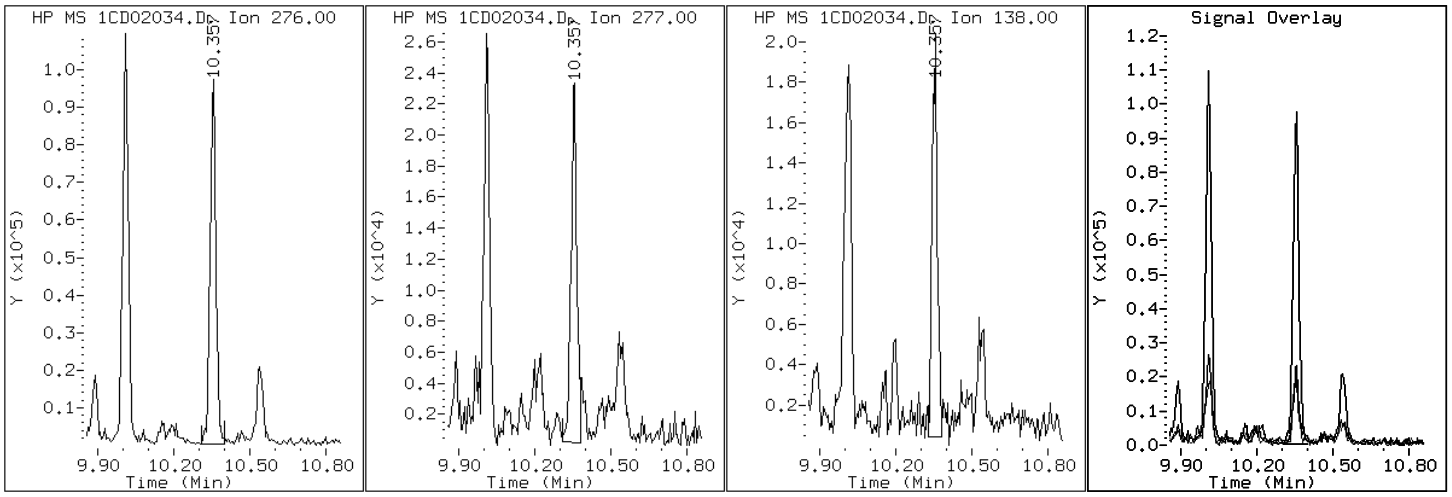
Data File: 1CD02034.D

Date: 02-APR-2013 22:27

Client ID: CV0613B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-3-a Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD02034.D

Date: 02-APR-2013 22:27

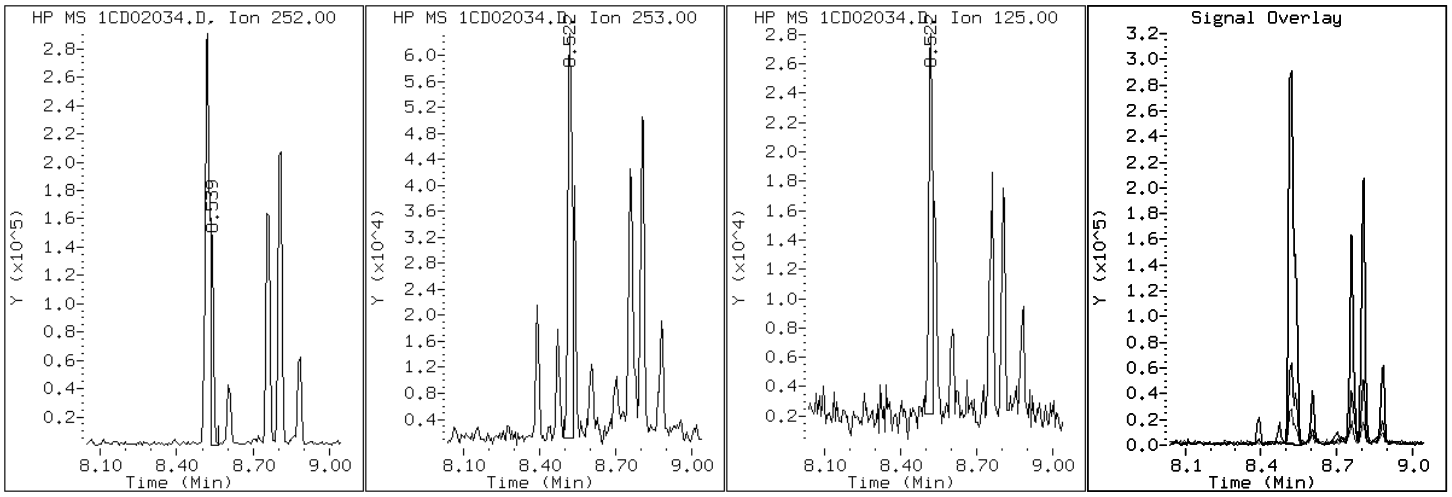
Client ID: CV0613B-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-3-a

Operator: SCC

21 Benzo(k)fluoranthene



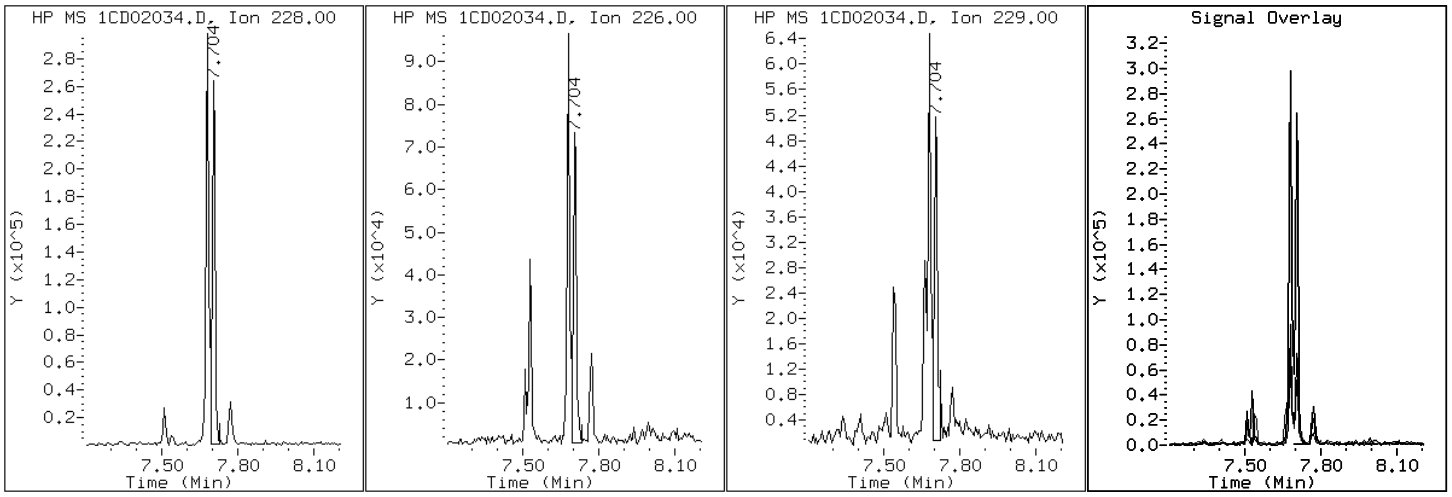
Data File: 1CD02034.D

Date: 02-APR-2013 22:27

Client ID: CV0613B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-3-a Operator: SCC

19 Chrysene



Data File: 1CD02034.D

Date: 02-APR-2013 22:27

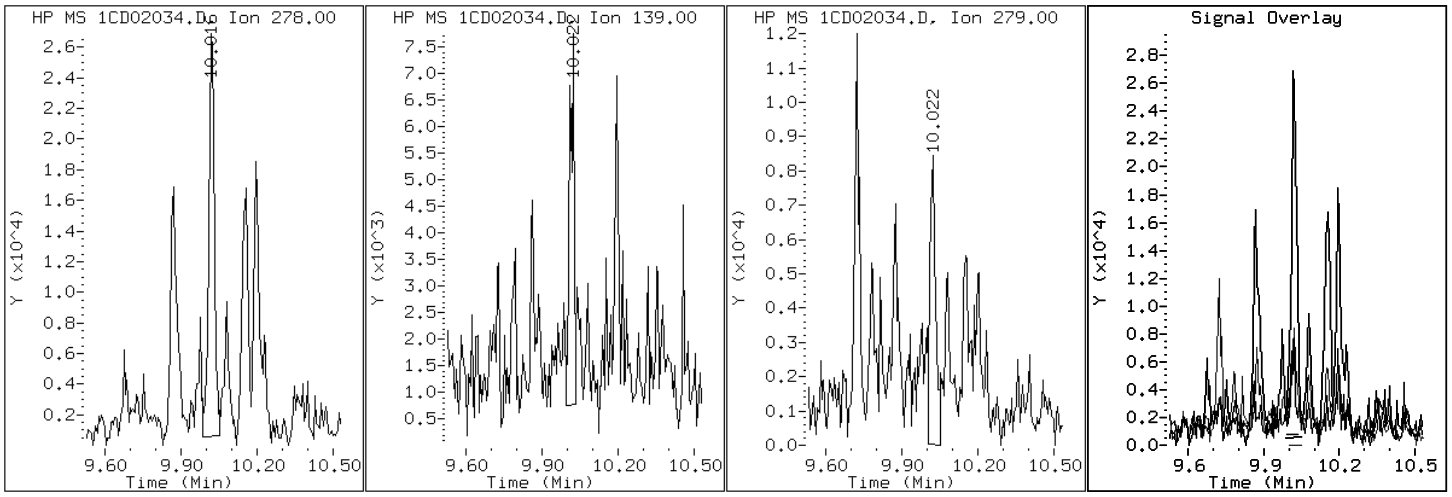
Client ID: CV0613B-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-3-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD02034.D

Date: 02-APR-2013 22:27

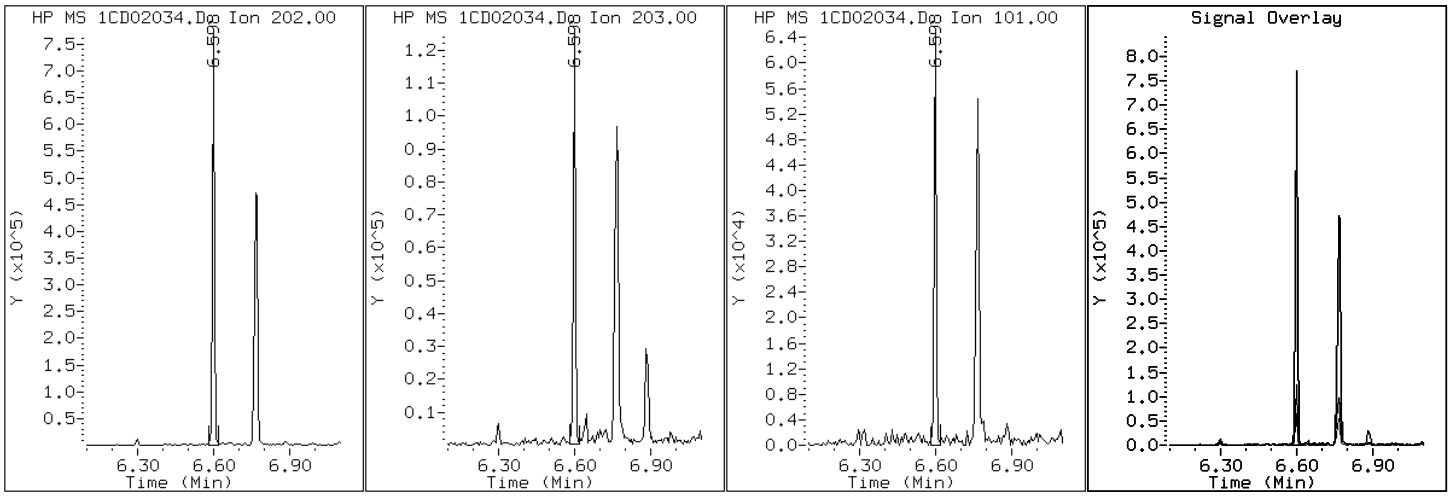
Client ID: CV0613B-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-3-a

Operator: SCC

15 Fluoranthene



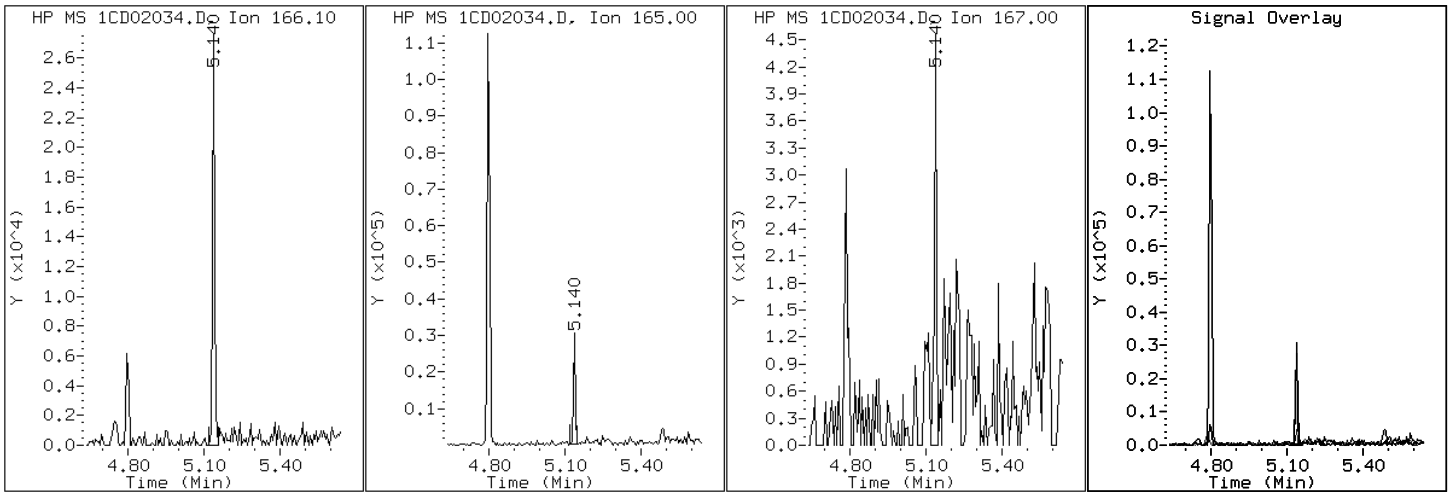
Data File: 1CD02034.D

Date: 02-APR-2013 22:27

Client ID: CV0613B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-3-a Operator: SCC

9 Fluorene



Data File: 1CD02034.D

Date: 02-APR-2013 22:27

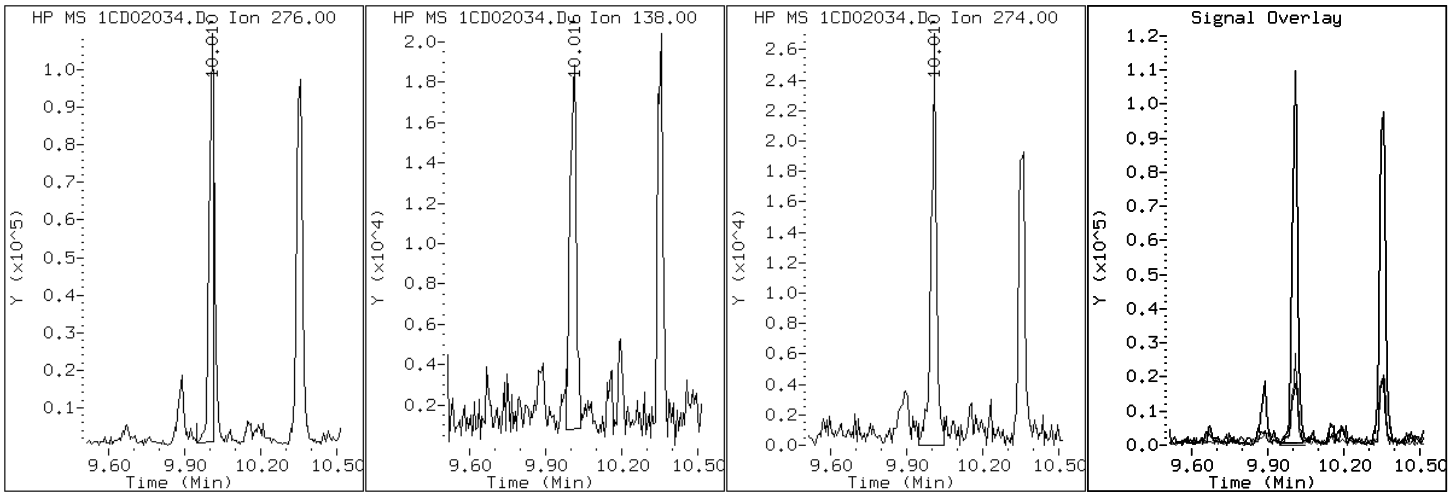
Client ID: CV0613B-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-3-a

Operator: SCC

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



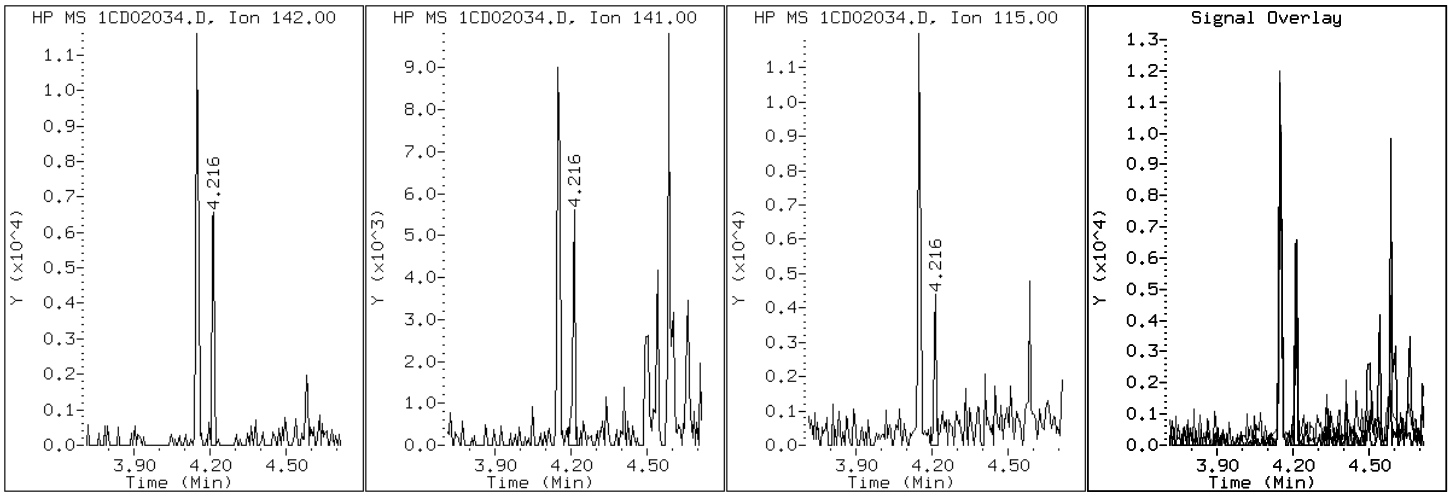
Data File: 1CD02034.D

Date: 02-APR-2013 22:27

Client ID: CV0613B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-3-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD02034.D

Date: 02-APR-2013 22:27

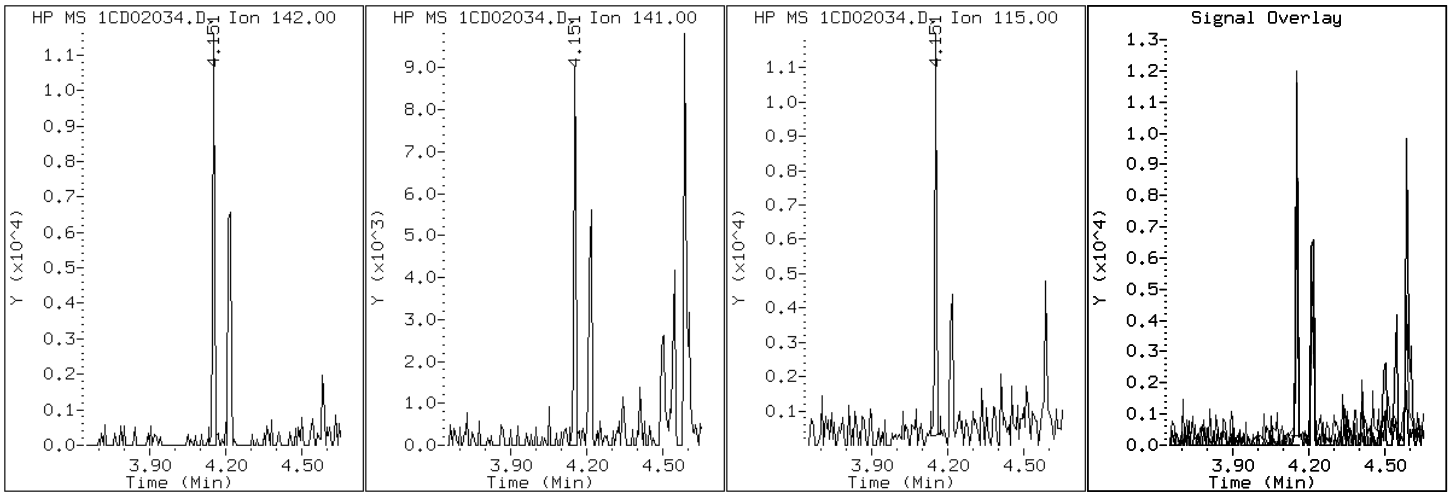
Client ID: CV0613B-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-3-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD02034.D

Date: 02-APR-2013 22:27

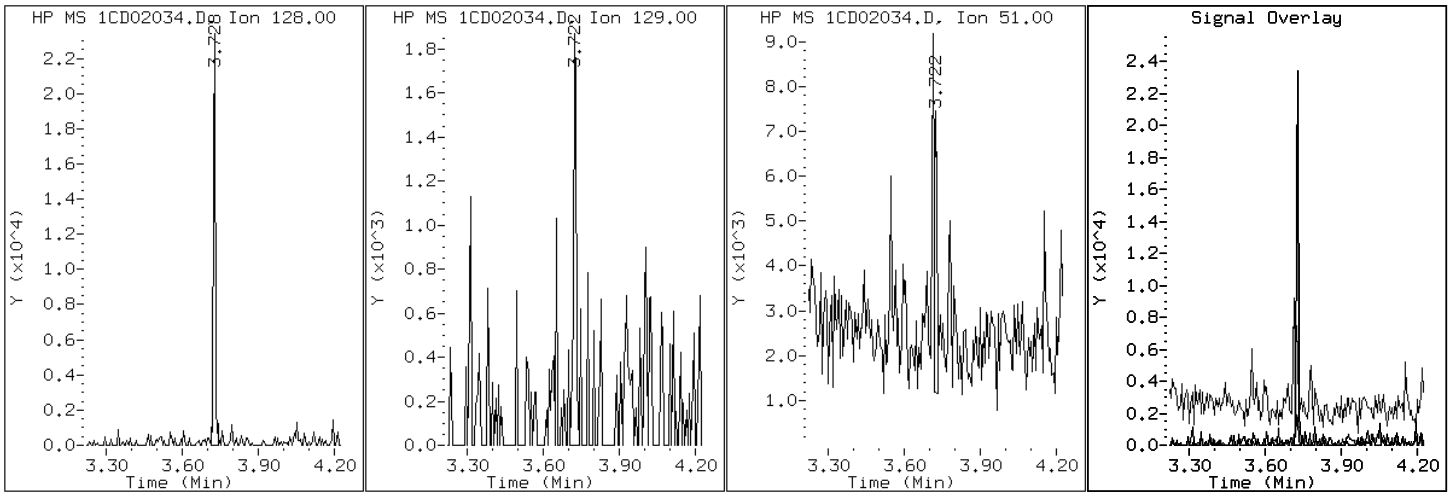
Client ID: CV0613B-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-3-a

Operator: SCC

2 Naphthalene



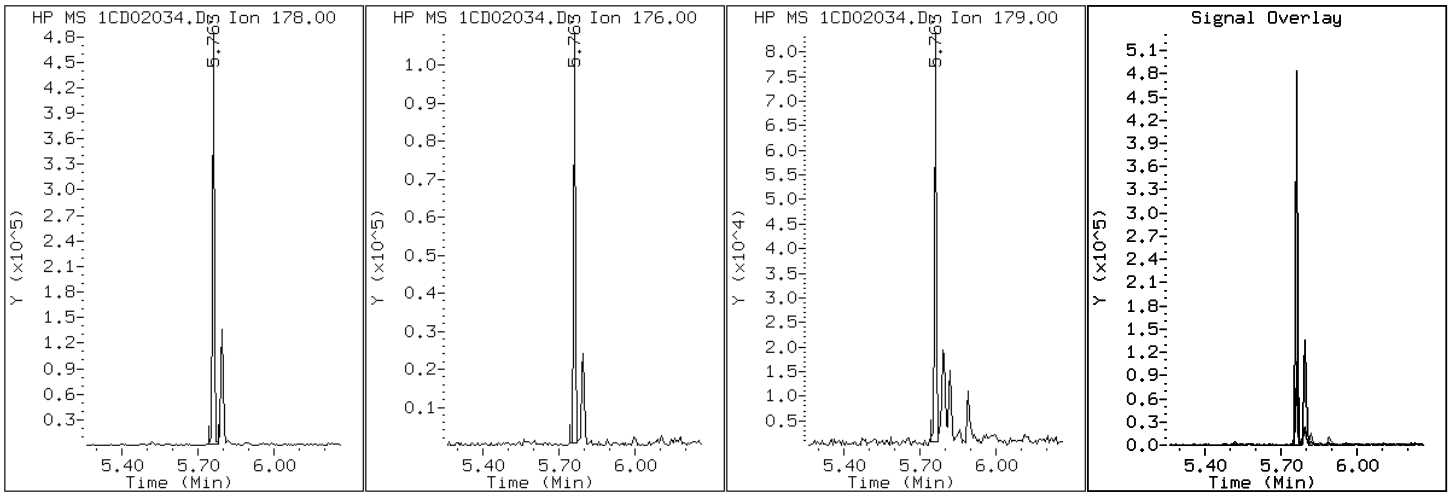
Data File: 1CD02034.D

Date: 02-APR-2013 22:27

Client ID: CV0613B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-3-a Operator: SCC

11 Phenanthrene



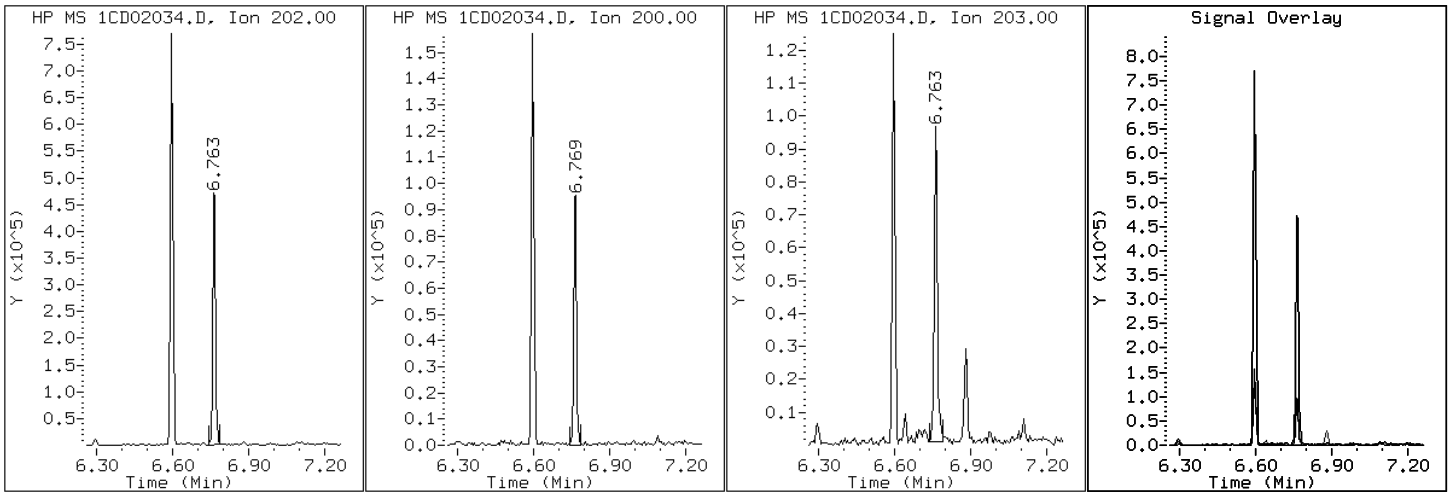
Data File: 1CD02034.D

Date: 02-APR-2013 22:27

Client ID: CV0613B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-3-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD02034.D
Inj. Date and Time: 02-APR-2013 22:27
Instrument ID: BSMC5973.i
Client ID: CV0613B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

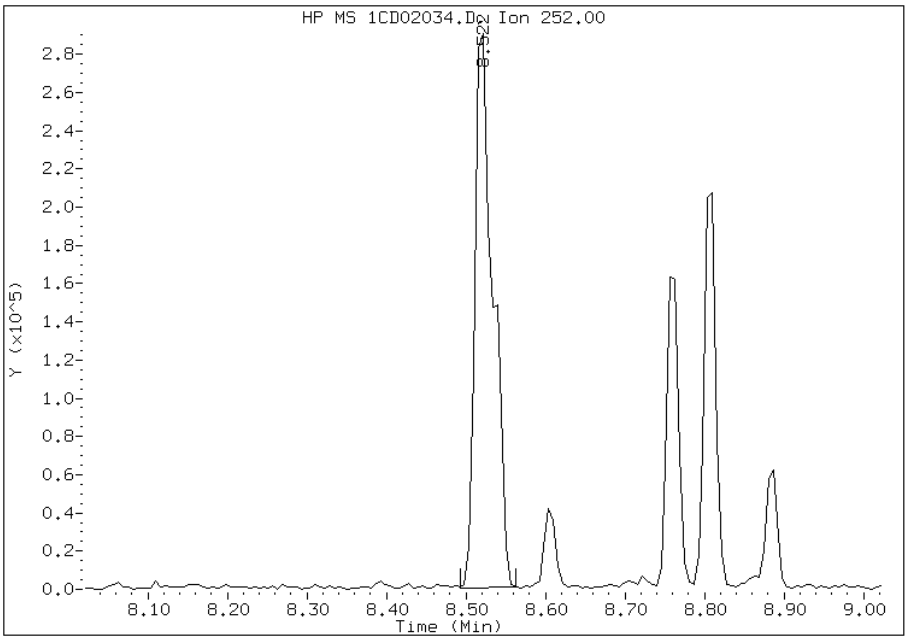
Processing Integration Results

RT: 8.52

Response: 454860

Amount: 15

Conc: 4693



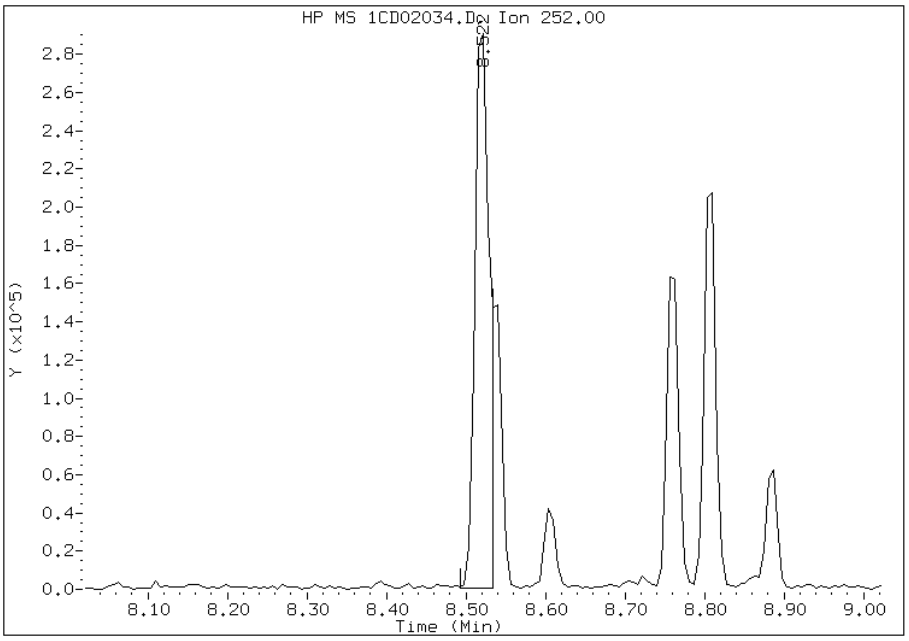
Manual Integration Results

RT: 8.52

Response: 368600

Amount: 12

Conc: 3803



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 14:57
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD02034.D
Inj. Date and Time: 02-APR-2013 22:27
Instrument ID: BSMC5973.i
Client ID: CV0613B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

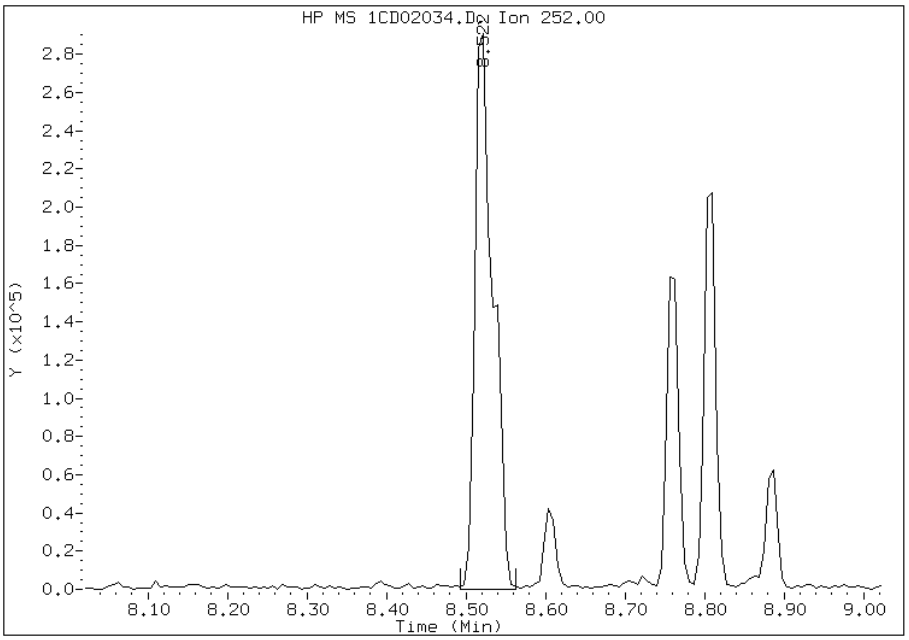
Processing Integration Results

RT: 8.52

Response: 457918

Amount: 15

Conc: 4885



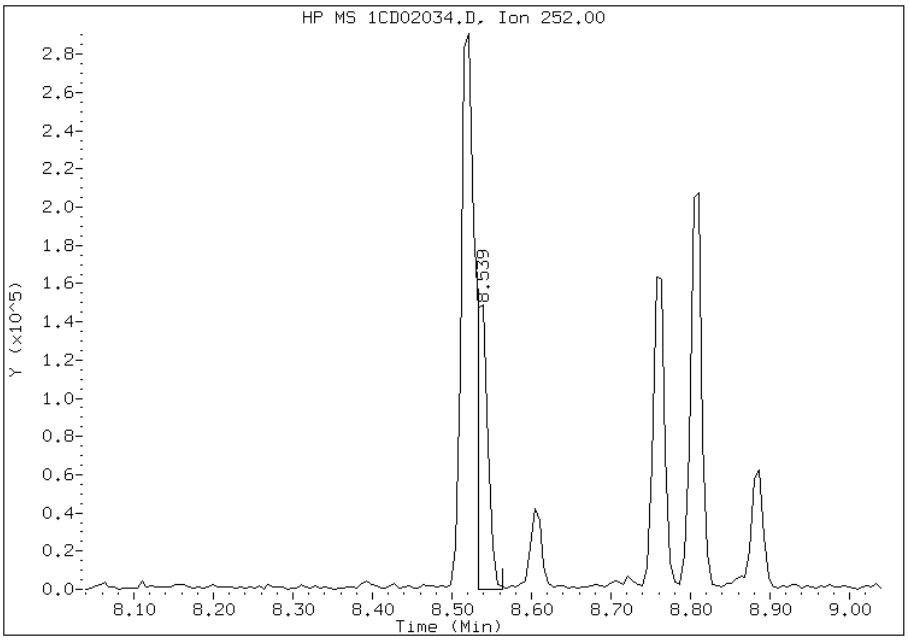
Manual Integration Results

RT: 8.54

Response: 139960

Amount: 5

Conc: 1493



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 14:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD02034.D
Inj. Date and Time: 02-APR-2013 22:27
Instrument ID: BSMC5973.i
Client ID: CV0613B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

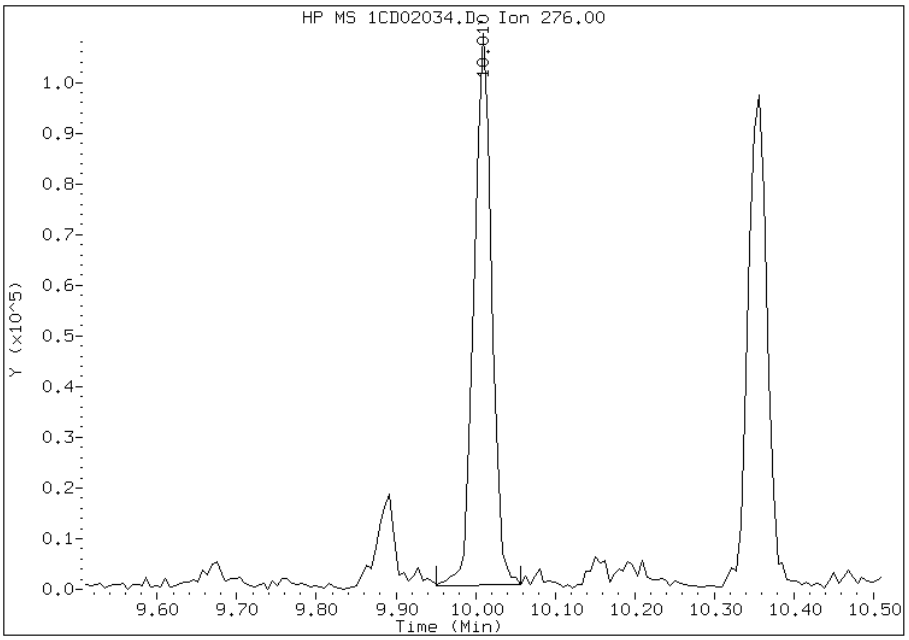
Processing Integration Results

RT: 10.01

Response: 167149

Amount: 6

Conc: 1929



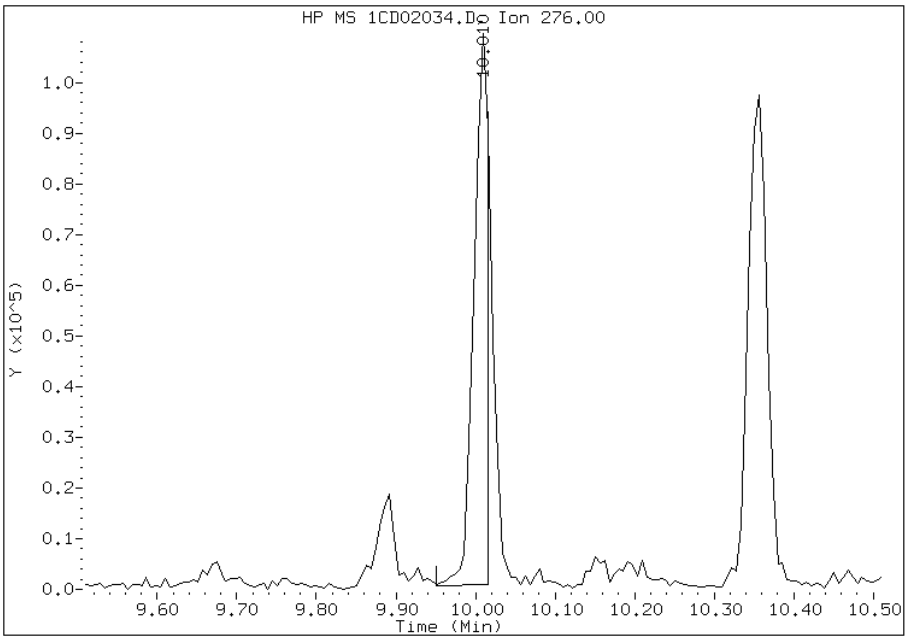
Manual Integration Results

RT: 10.01

Response: 136653

Amount: 5

Conc: 1577



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 14:57
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-1

SDG No.: 68088766-1

Client Sample ID: CV0613C-CS | Lab Sample ID: 680-88766-4

Matrix: Solid | Lab File ID: 1CD02035.D

Analysis Method: 8270C LL | Date Collected: 03/25/2013 13:25

Extract. Method: 3546 | Date Extracted: 03/29/2013 10:19

Sample wt/vol: 14.86(g) | Date Analyzed: 04/02/2013 22:46

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

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

% Moisture: 28.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136079 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	31	J	140	28
208-96-8	Acenaphthylene	21	J	56	7.0
120-12-7	Anthracene	68		12	5.9
56-55-3	Benzo[a]anthracene	230		11	5.5
50-32-8	Benzo[a]pyrene	190		15	7.3
205-99-2	Benzo[b]fluoranthene	380		17	8.6
191-24-2	Benzo[g,h,i]perylene	180		28	6.2
207-08-9	Benzo[k]fluoranthene	130		11	5.1
218-01-9	Chrysene	230		13	6.3
53-70-3	Dibenz(a,h)anthracene	57		28	5.8
206-44-0	Fluoranthene	420		28	5.6
86-73-7	Fluorene	31		28	5.8
193-39-5	Indeno[1,2,3-cd]pyrene	130		28	10
90-12-0	1-Methylnaphthalene	63		56	6.2
91-57-6	2-Methylnaphthalene	94		56	10
91-20-3	Naphthalene	92		56	6.2
85-01-8	Phenanthrene	260		11	5.5
129-00-0	Pyrene	340		28	5.2

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1CD02035.D
Lab Smp Id: 680-88766-A-4-A Client Smp ID: CV0613C-CS
Inj Date : 02-APR-2013 22:46
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88766-a-4-a
Misc Info : 680-88766-A-4-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 16:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 34
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	14.860	Weight Extracted
M	28.214	% 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	3.716	3.710	(1.000)	606875	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	510653	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	1016416	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	77382	5.38966	505.2476
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	1137493	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	1059585	40.0000	
2 Naphthalene	128	3.727	3.721	(1.003)	15337	0.98393	92.2376
3 2-Methylnaphthalene	142	4.151	4.151	(1.117)	10695	1.00795	94.4893
4 1-Methylnaphthalene	142	4.215	4.216	(1.135)	6451	0.67567	63.3403
5 Acenaphthylene	152	4.715	4.710	(0.983)	4623	0.21874	20.5055
7 Acenaphthene	154	4.821	4.821	(1.005)	4362	0.33323	31.2380
9 Fluorene	166	5.139	5.139	(1.071)	5699	0.32658	30.6150
11 Phenanthrene	178	5.762	5.763	(1.003)	83384	2.81676	264.0546
12 Anthracene	178	5.798	5.798	(1.009)	21678	0.72240	67.7201

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.904	5.904	(1.028)	13074	0.50853	47.6711
15 Fluoranthene	202	6.598	6.598	(1.148)	146804	4.49045	420.9520
16 Pyrene	202	6.762	6.762	(0.880)	113862	3.61358	338.7516
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	76062	2.44342	229.0558
19 Chrysene	228	7.704	7.704	(1.002)	80698	2.48964	233.3882
20 Benzo(b)fluoranthene	252	8.515	8.521	(0.961)	121517	4.05660	380.2818(M)
21 Benzo(k)fluoranthene	252	8.539	8.545	(0.963)	40476	1.39706	130.9660(QMH)
22 Benzo(a)pyrene	252	8.803	8.809	(0.993)	56534	2.00459	187.9181
24 Indeno(1,2,3-cd)pyrene	276	10.003	10.015	(1.129)	38238	1.42749	133.8188(M)
25 Dibenzo(a,h)anthracene	278	10.015	10.027	(1.130)	15097	0.61011	57.1941
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	52339	1.91443	179.4666

QC Flag Legend

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

Data File: 1CD02035.D

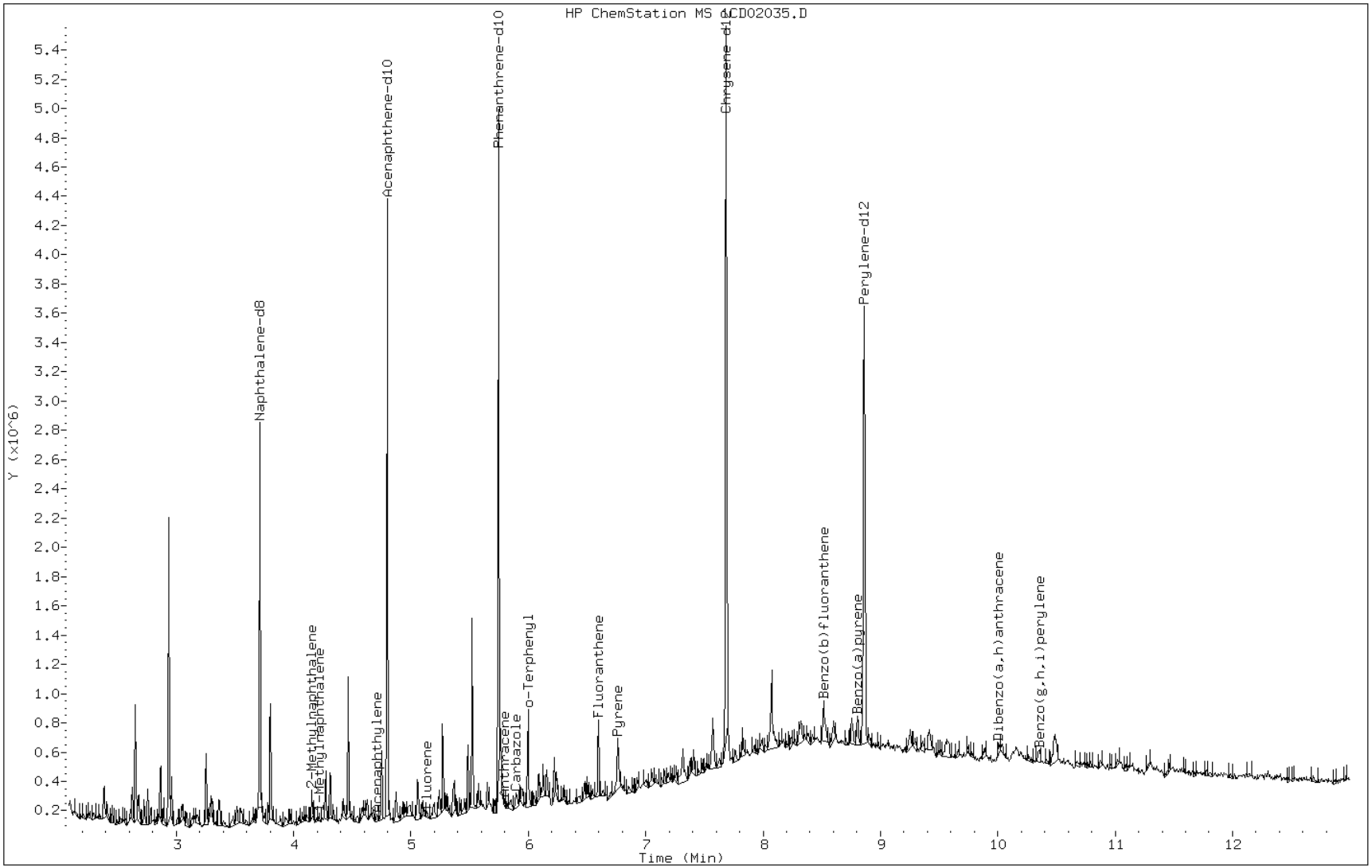
Date: 02-APR-2013 22:46

Client ID: CV0613C-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-4-a

Operator: SCC



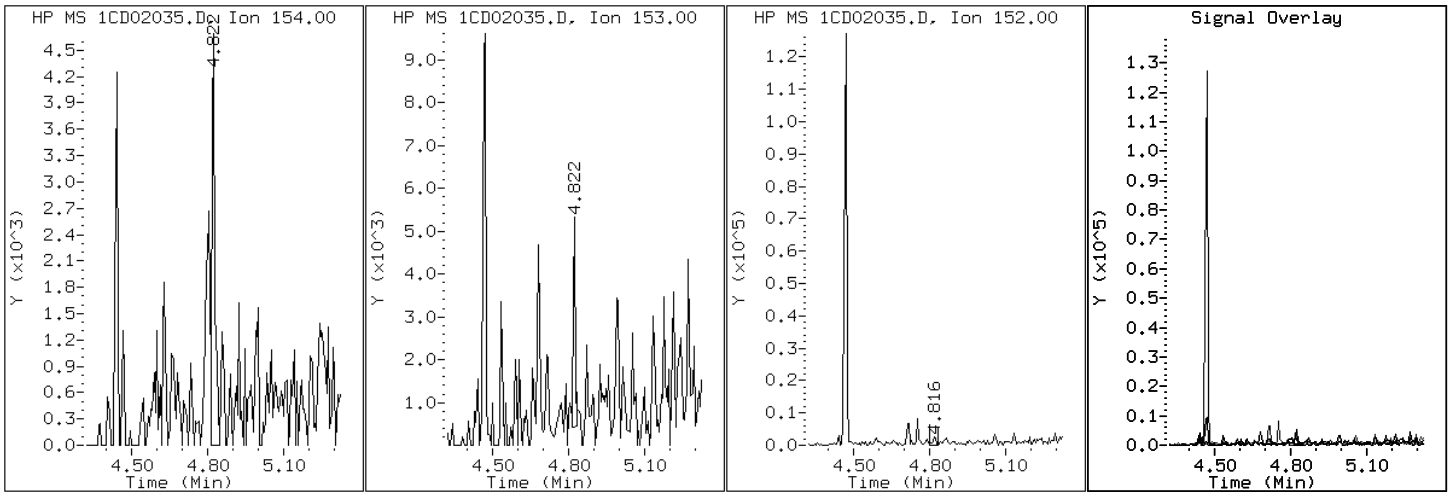
Data File: 1CD02035.D

Date: 02-APR-2013 22:46

Client ID: CV0613C-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-4-a Operator: SCC

7 Acenaphthene



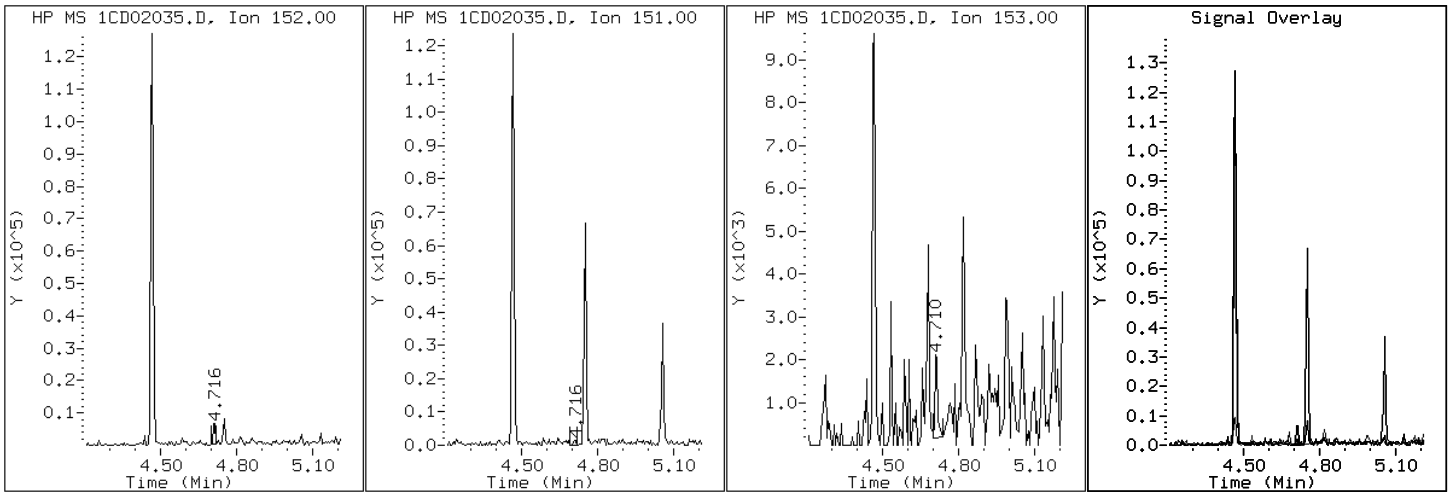
Data File: 1CD02035.D

Date: 02-APR-2013 22:46

Client ID: CV0613C-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-4-a Operator: SCC

5 Acenaphthylene



Data File: 1CD02035.D

Date: 02-APR-2013 22:46

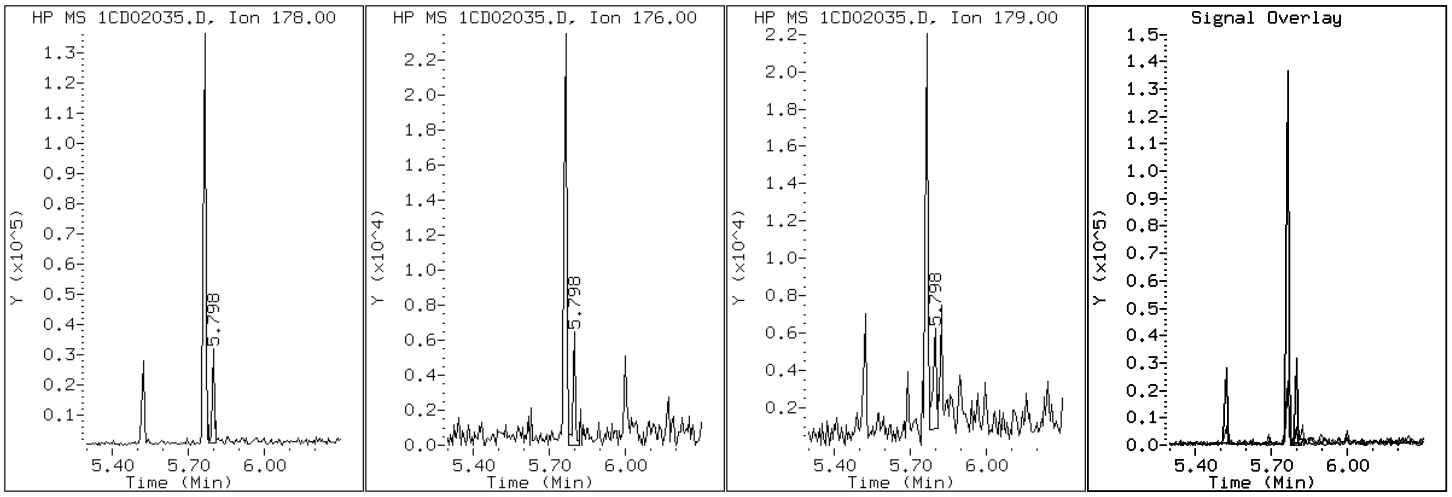
Client ID: CV0613C-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-4-a

Operator: SCC

12 Anthracene



Data File: 1CD02035.D

Date: 02-APR-2013 22:46

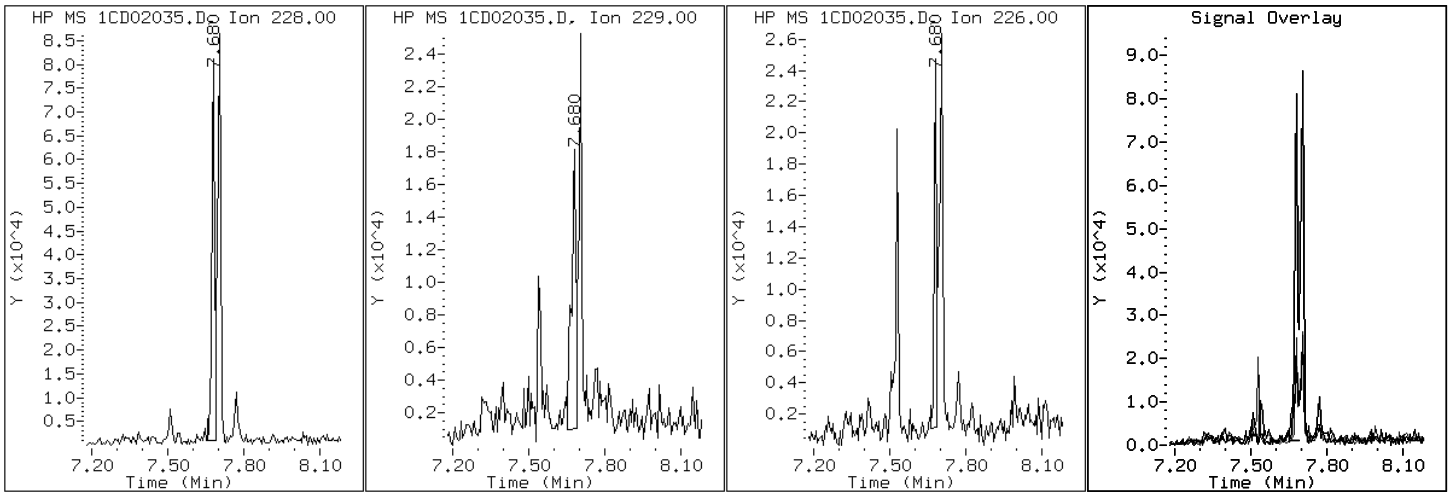
Client ID: CV0613C-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-4-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD02035.D

Date: 02-APR-2013 22:46

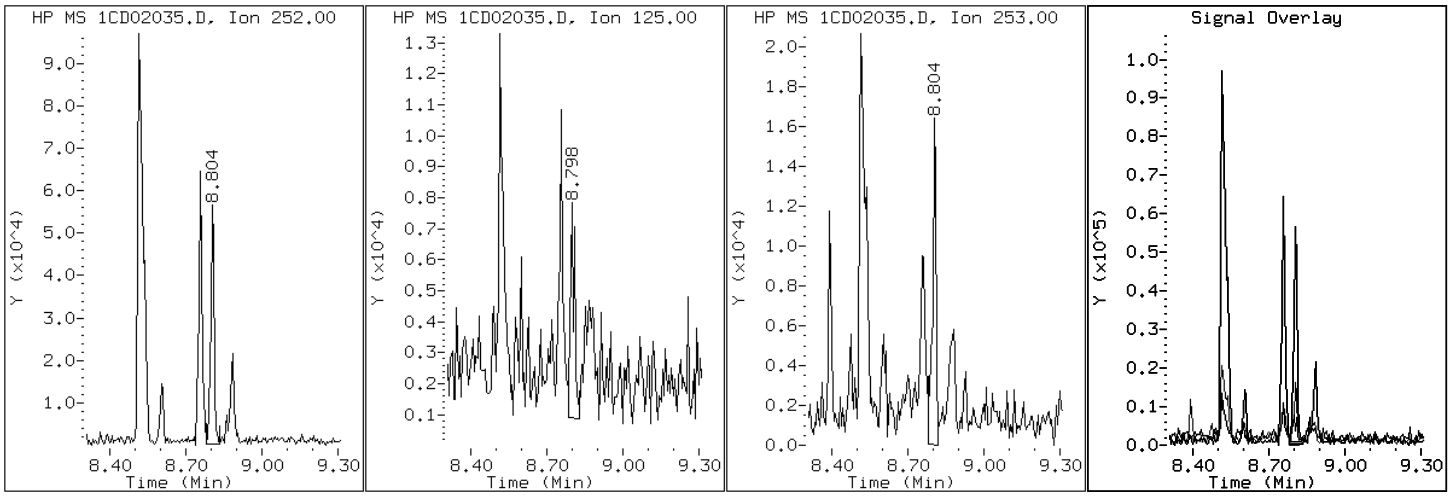
Client ID: CV0613C-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-4-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD02035.D

Date: 02-APR-2013 22:46

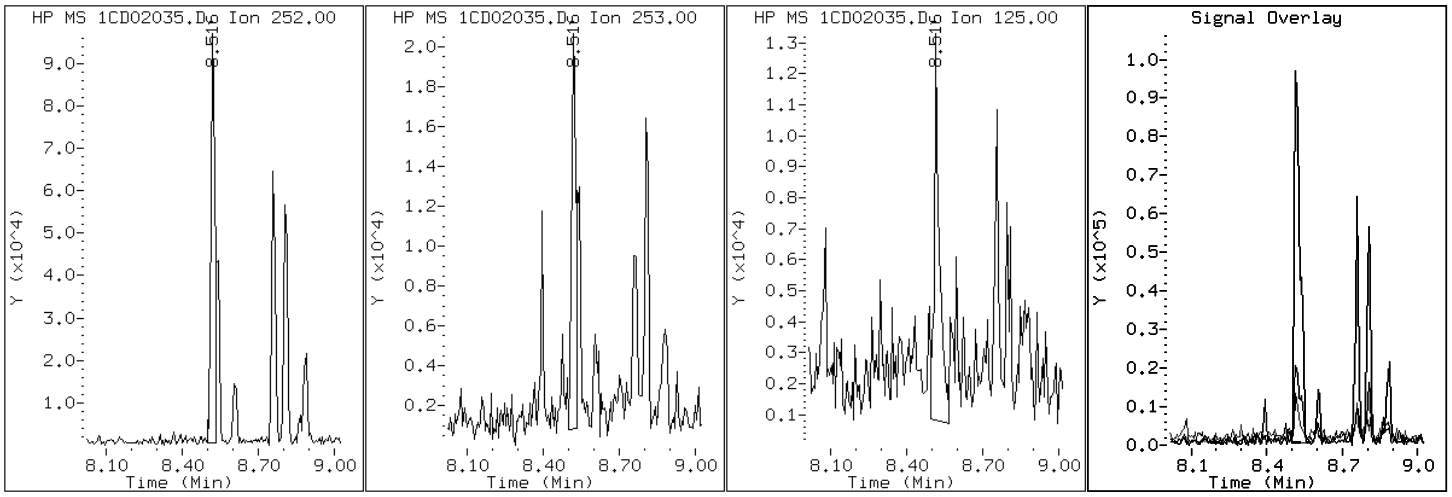
Client ID: CV0613C-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-4-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD02035.D

Date: 02-APR-2013 22:46

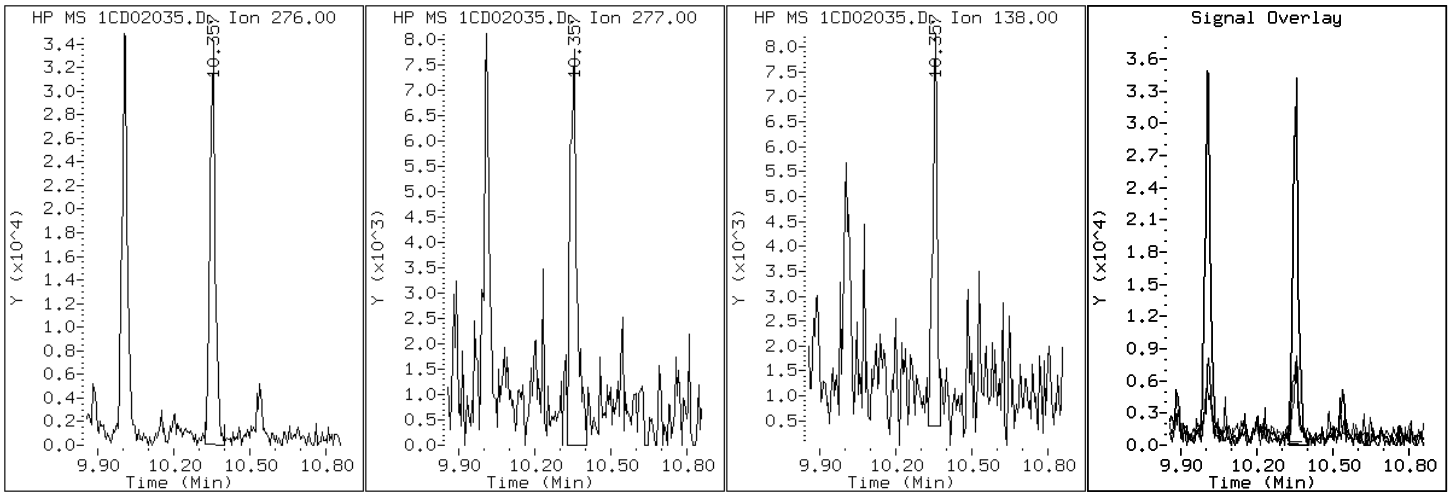
Client ID: CV0613C-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-4-a

Operator: SCC

26 Benzo(g,h,i)perylene



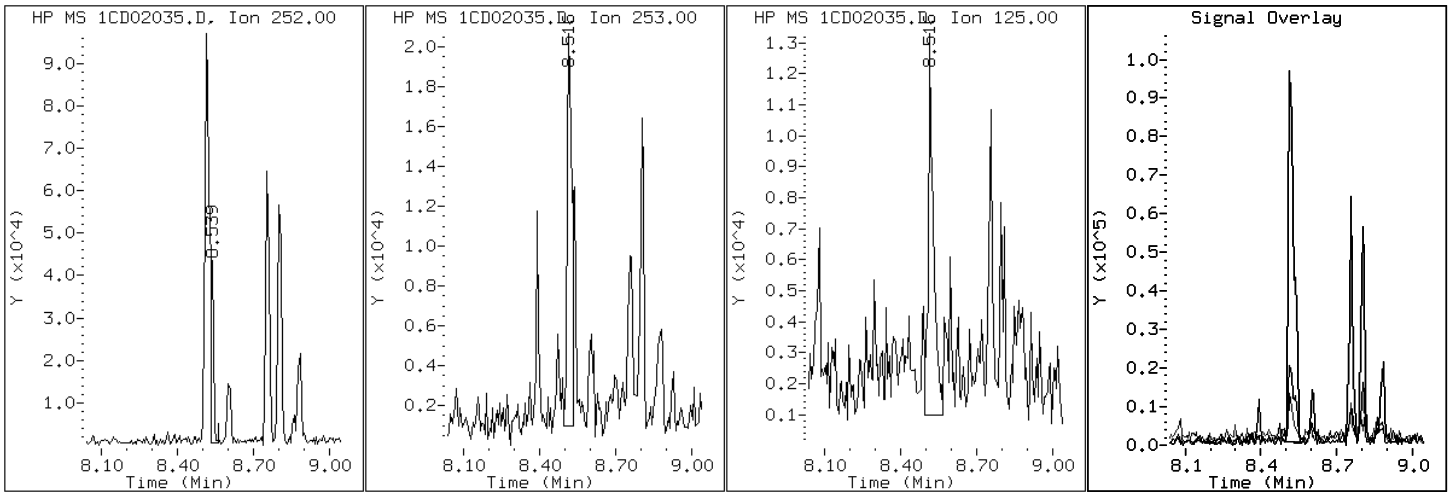
Data File: 1CD02035.D

Date: 02-APR-2013 22:46

Client ID: CV0613C-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-4-a Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD02035.D

Date: 02-APR-2013 22:46

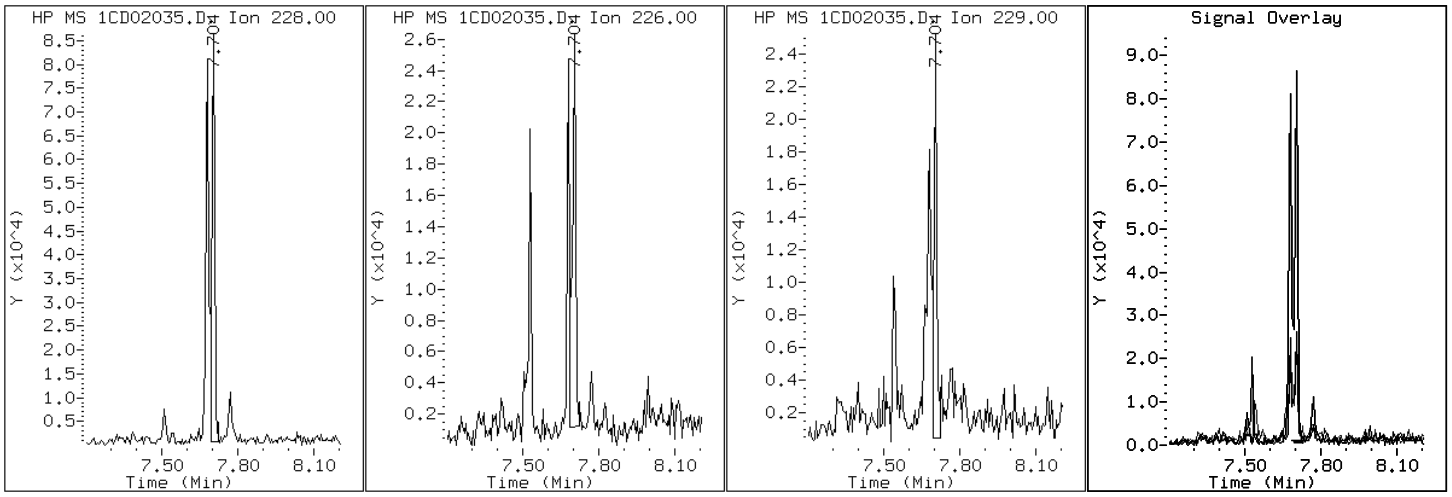
Client ID: CV0613C-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-4-a

Operator: SCC

19 Chrysene



Data File: 1CD02035.D

Date: 02-APR-2013 22:46

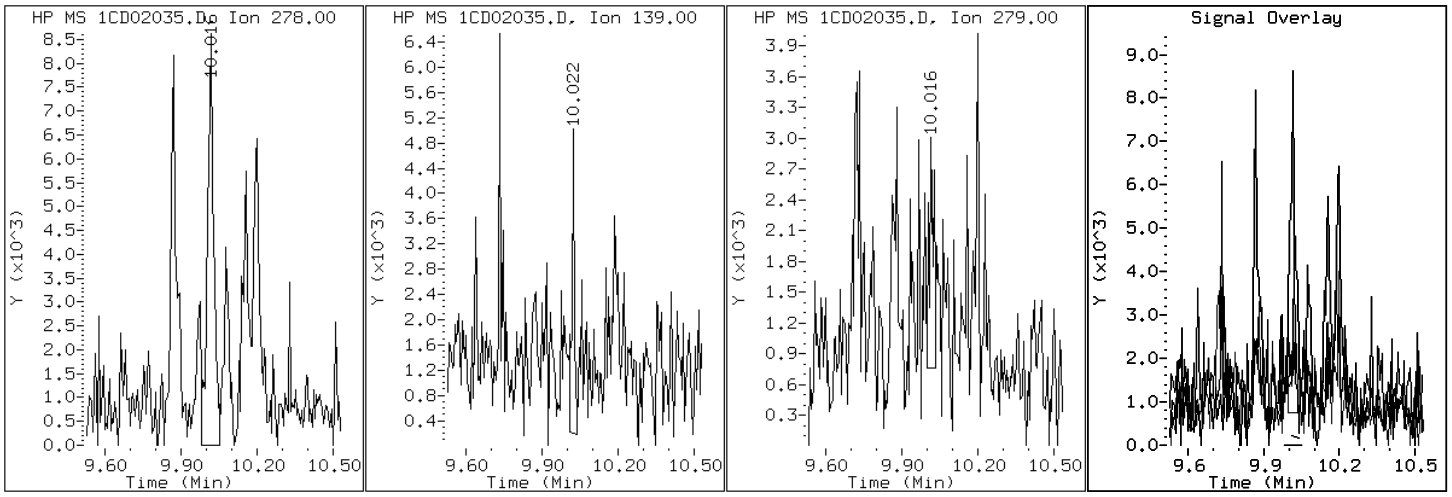
Client ID: CV0613C-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-4-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD02035.D

Date: 02-APR-2013 22:46

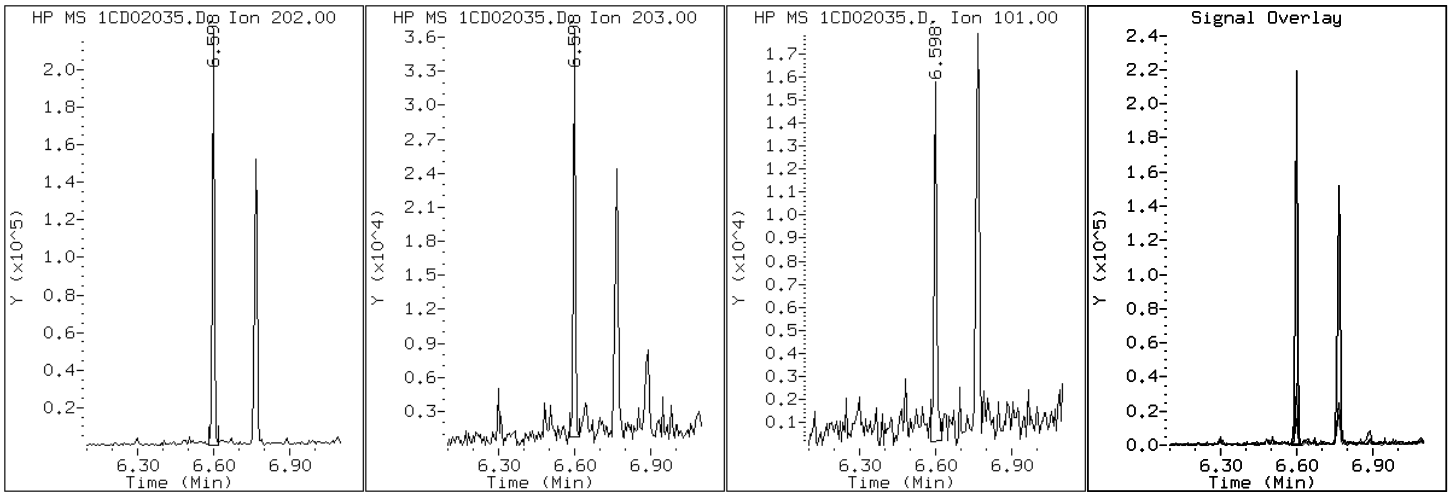
Client ID: CV0613C-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-4-a

Operator: SCC

15 Fluoranthene



Data File: 1CD02035.D

Date: 02-APR-2013 22:46

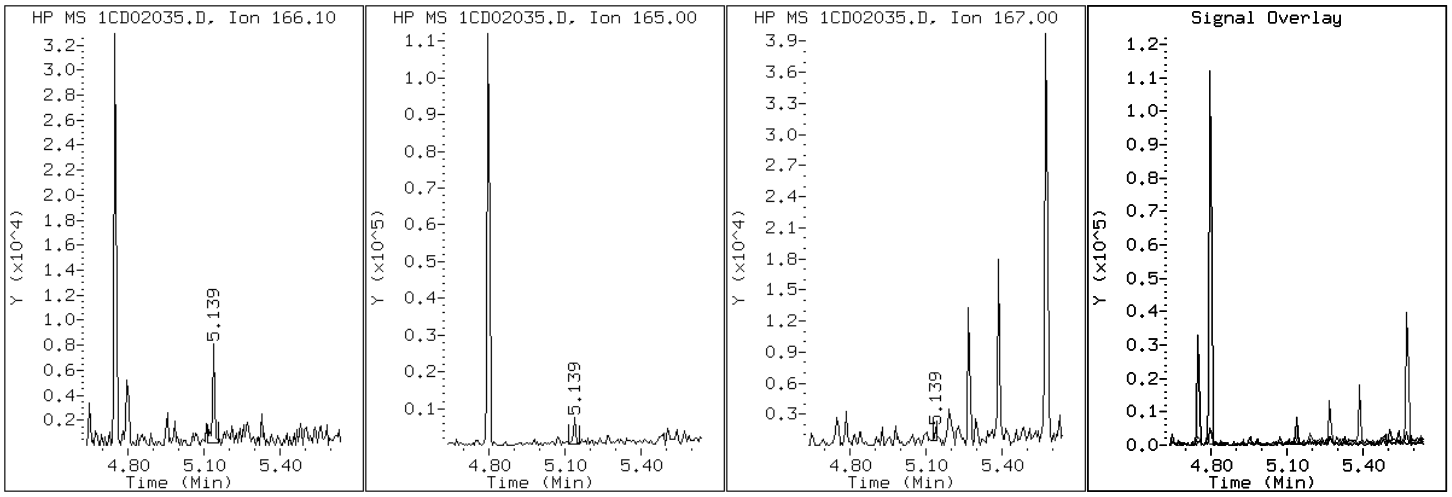
Client ID: CV0613C-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-4-a

Operator: SCC

9 Fluorene



Data File: 1CD02035.D

Date: 02-APR-2013 22:46

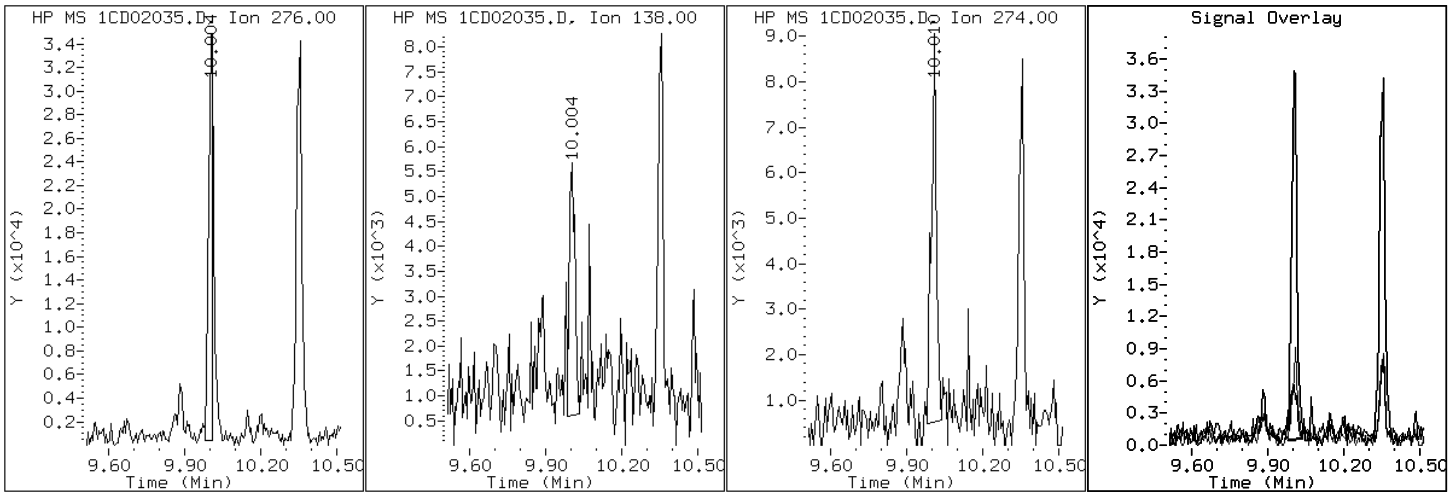
Client ID: CV0613C-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-4-a

Operator: SCC

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



Data File: 1CD02035.D

Date: 02-APR-2013 22:46

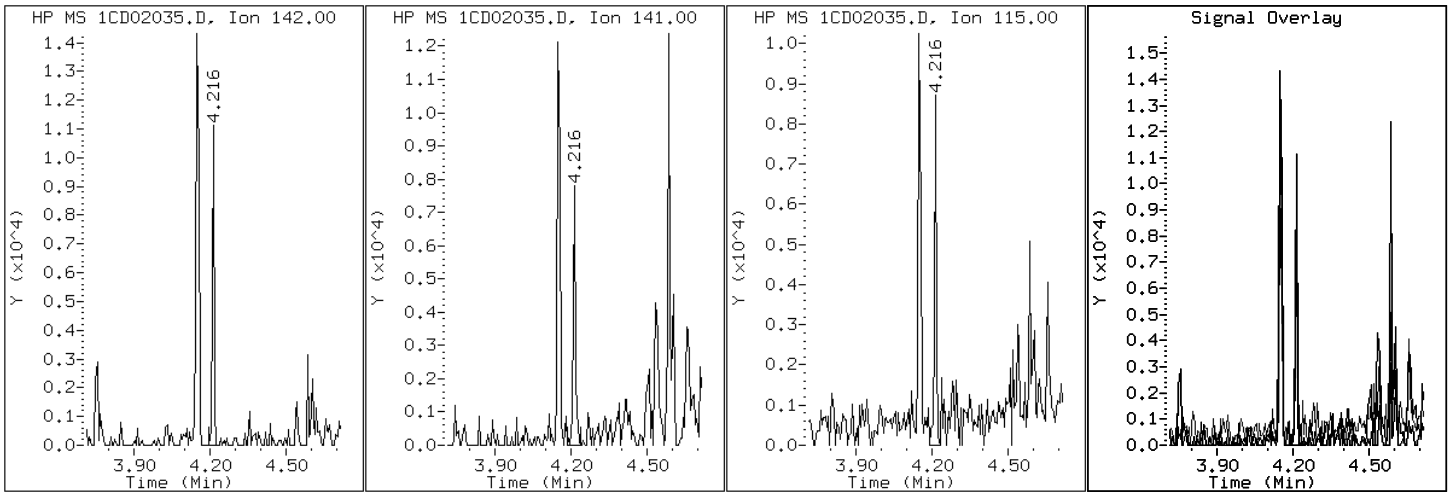
Client ID: CV0613C-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-4-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD02035.D

Date: 02-APR-2013 22:46

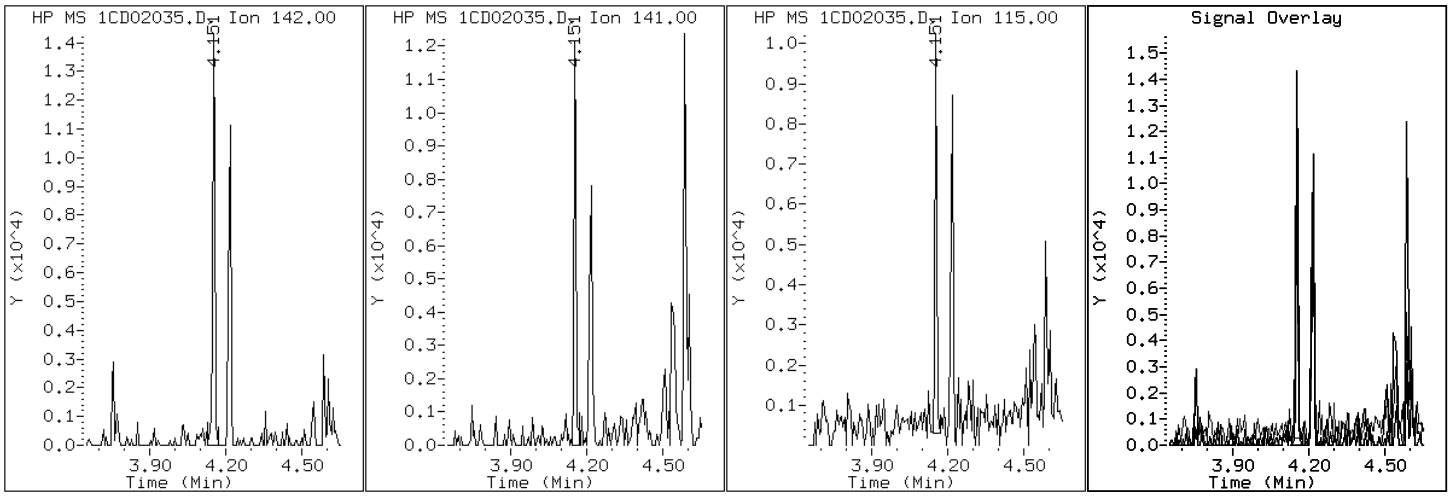
Client ID: CV0613C-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-4-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD02035.D

Date: 02-APR-2013 22:46

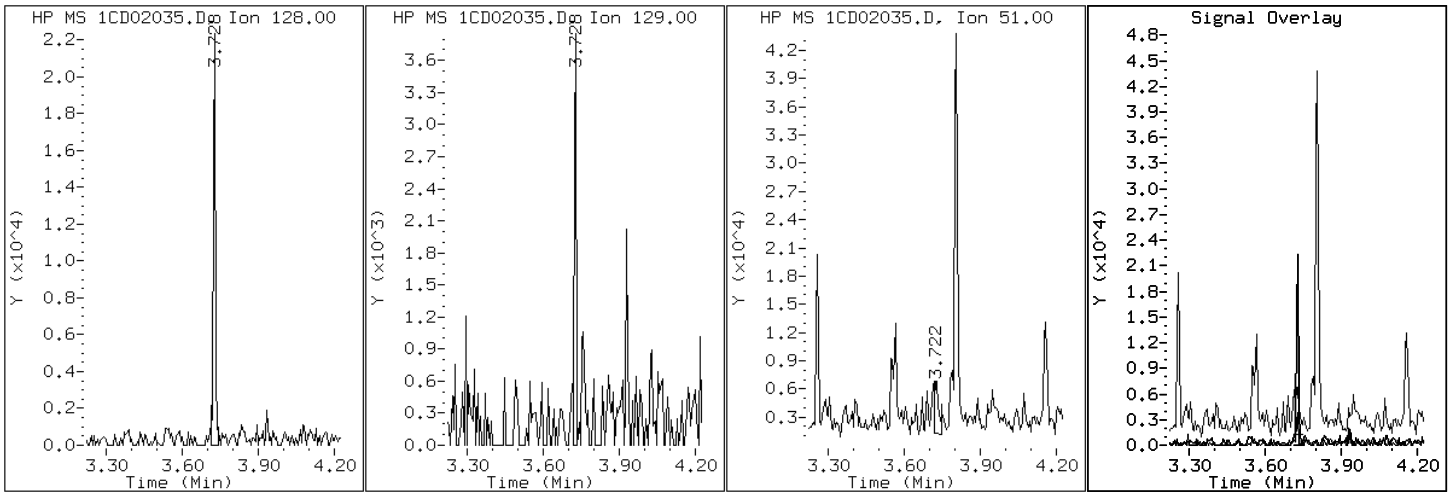
Client ID: CV0613C-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-4-a

Operator: SCC

2 Naphthalene



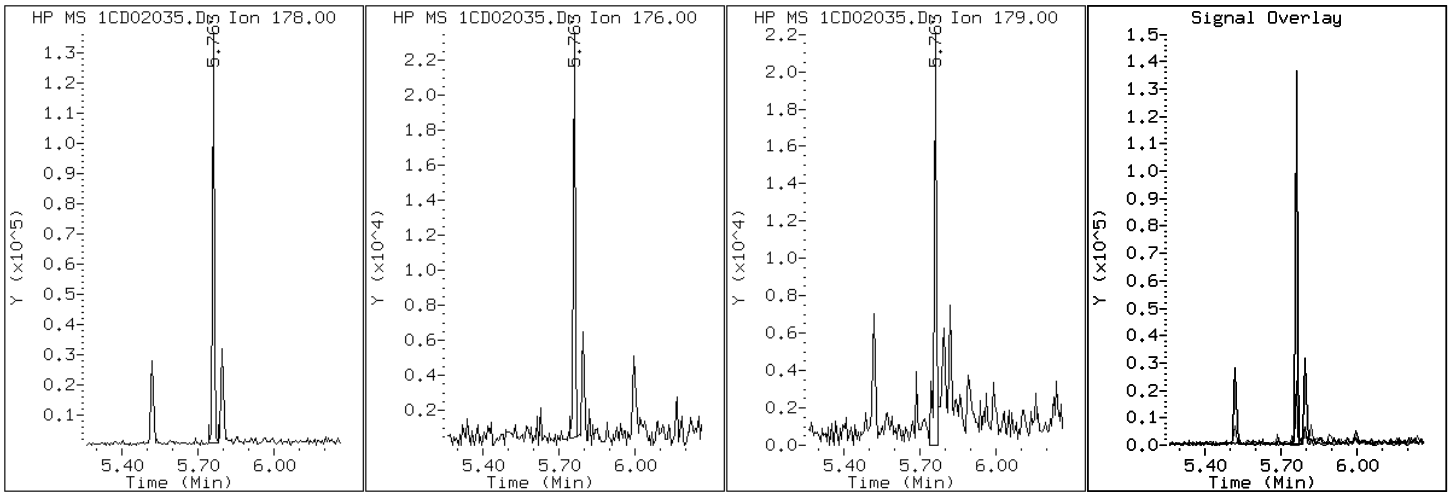
Data File: 1CD02035.D

Date: 02-APR-2013 22:46

Client ID: CV0613C-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-4-a Operator: SCC

11 Phenanthrene



Data File: 1CD02035.D

Date: 02-APR-2013 22:46

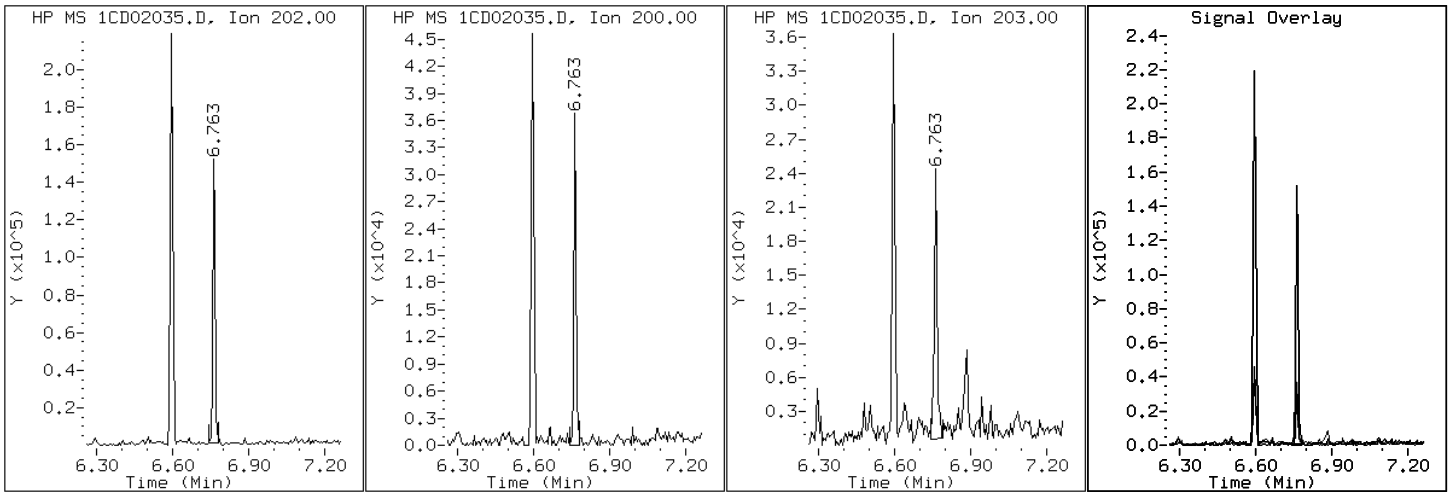
Client ID: CV0613C-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-4-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD02035.D
Inj. Date and Time: 02-APR-2013 22:46
Instrument ID: BSMC5973.i
Client ID: CV0613C-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

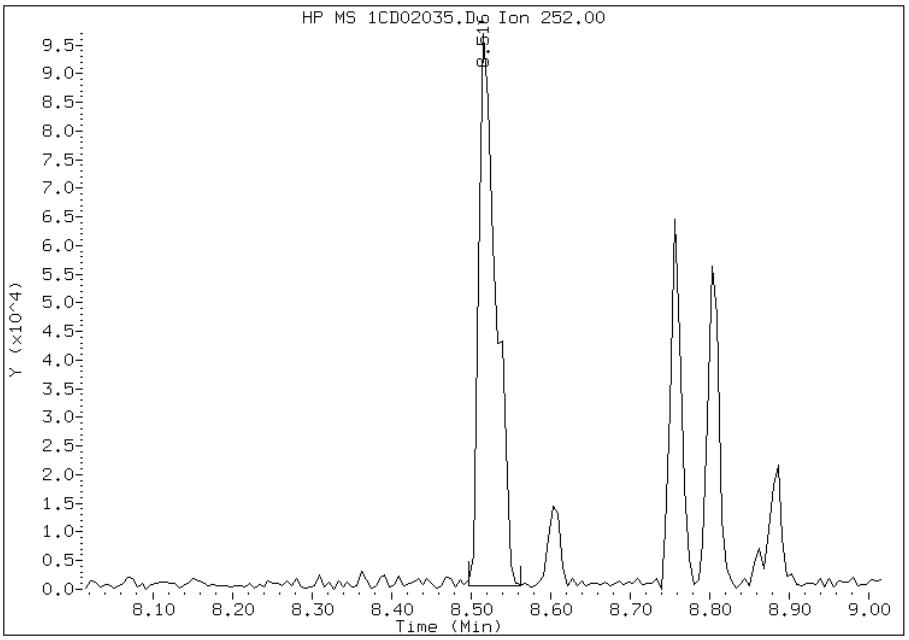
Processing Integration Results

RT: 8.52

Response: 146910

Amount: 5

Conc: 460



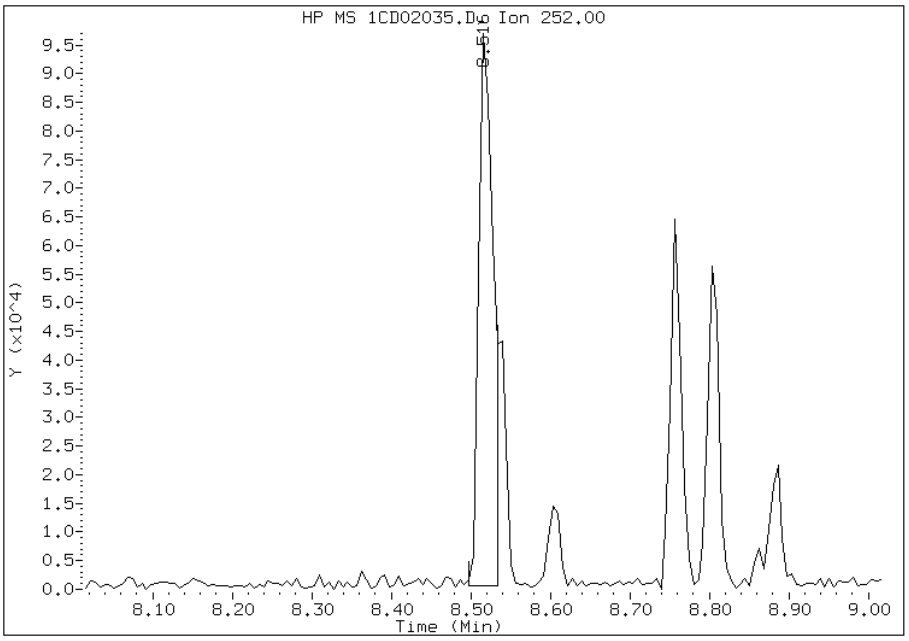
Manual Integration Results

RT: 8.52

Response: 121517

Amount: 4

Conc: 380



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 14:58
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD02035.D
Inj. Date and Time: 02-APR-2013 22:46
Instrument ID: BSMC5973.i
Client ID: CV0613C-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

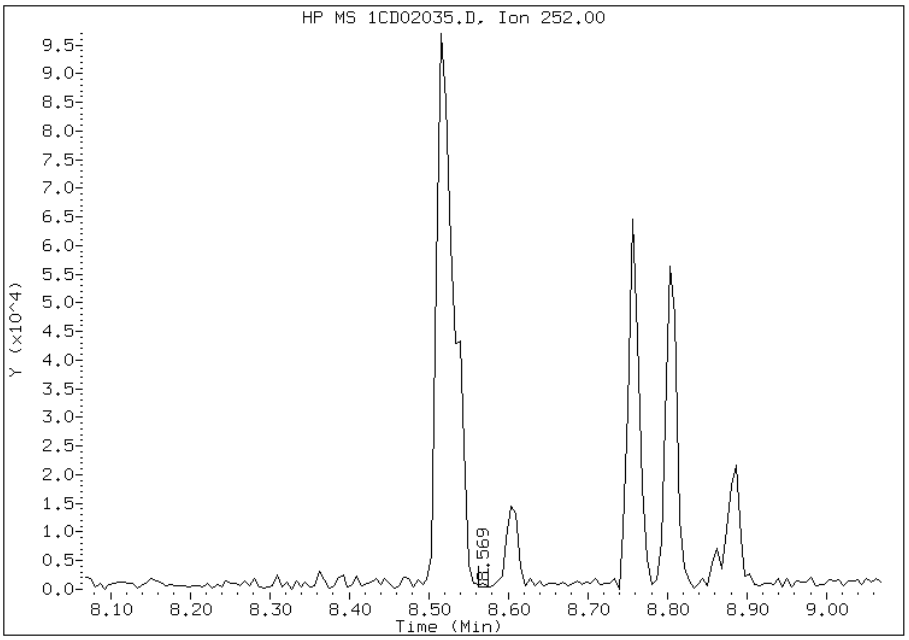
Processing Integration Results

RT: 8.57

Response: 414

Amount: 0

Conc: 1



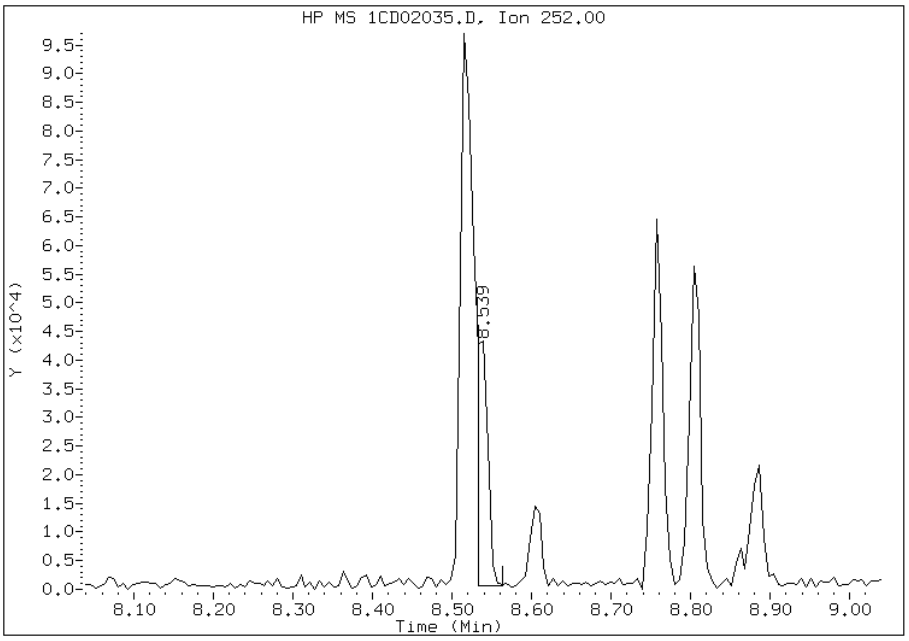
Manual Integration Results

RT: 8.54

Response: 40476

Amount: 1

Conc: 131



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 14:58
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD02035.D
Inj. Date and Time: 02-APR-2013 22:46
Instrument ID: BSMC5973.i
Client ID: CV0613C-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

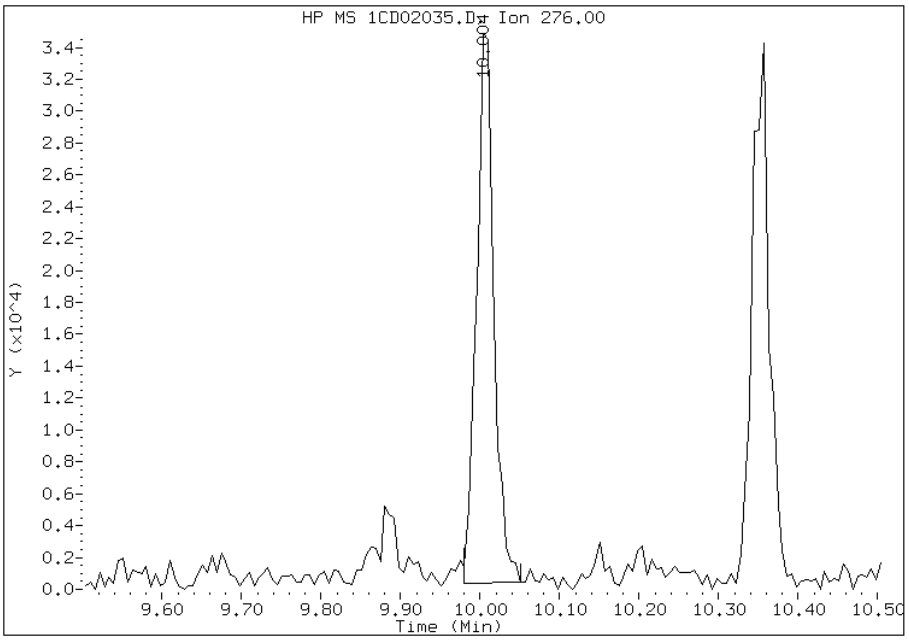
Processing Integration Results

RT: 10.00

Response: 51774

Amount: 2

Conc: 181



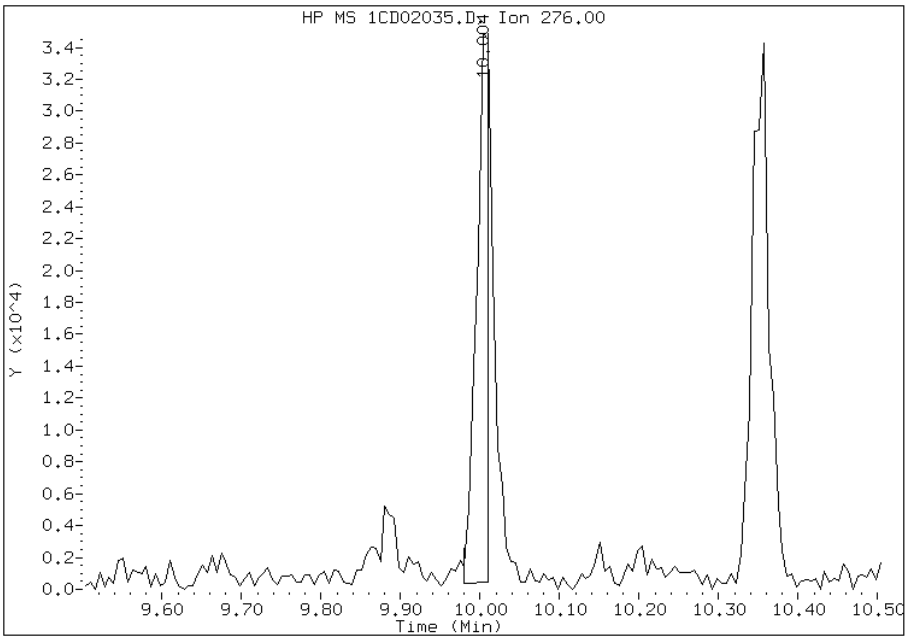
Manual Integration Results

RT: 10.00

Response: 38238

Amount: 1

Conc: 134



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 14:58
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-1

SDG No.: 68088766-1

Client Sample ID: CV0613D-CS | Lab Sample ID: 680-88766-5

Matrix: Solid | Lab File ID: 1CD02036.D

Analysis Method: 8270C LL | Date Collected: 03/25/2013 13:30

Extract. Method: 3546 | Date Extracted: 03/29/2013 10:19

Sample wt/vol: 14.97(g) | Date Analyzed: 04/02/2013 23:04

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

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

% Moisture: 17.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136079 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	97
208-96-8	Acenaphthylene	48	J	190	24
120-12-7	Anthracene	120		41	20
56-55-3	Benzo[a]anthracene	390		39	19
50-32-8	Benzo[a]pyrene	310		51	25
205-99-2	Benzo[b]fluoranthene	720		59	30
191-24-2	Benzo[g,h,i]perylene	260		97	21
207-08-9	Benzo[k]fluoranthene	230		39	17
218-01-9	Chrysene	470		44	22
53-70-3	Dibenz(a,h)anthracene	96	J	97	20
206-44-0	Fluoranthene	550		97	19
86-73-7	Fluorene	41	J	97	20
193-39-5	Indeno[1,2,3-cd]pyrene	270		97	34
90-12-0	1-Methylnaphthalene	64	J	190	21
91-57-6	2-Methylnaphthalene	93	J	190	34
91-20-3	Naphthalene	82	J	190	21
85-01-8	Phenanthrene	310		39	19
129-00-0	Pyrene	530		97	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\1C040213B.b\1CD02036.D
Lab Smp Id: 680-88766-A-5-A Client Smp ID: CV0613D-CS
Inj Date : 02-APR-2013 23:04
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88766-a-5-a
Misc Info : 680-88766-A-5-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 16:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 35
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	17.460	% 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	3.710	3.710	(1.000)	641712	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	558321	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	1081859	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	27011	2.25501	729.9980
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	1165723	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	1077180	40.0000	
2 Naphthalene	128	3.722	3.721	(1.003)	4191	0.25427	82.3142(Q)
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	3233	0.28815	93.2818
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	1992	0.19731	63.8752
5 Acenaphthylene	152	4.716	4.710	(0.983)	3441	0.14891	48.2063
9 Fluorene	166	5.139	5.139	(1.071)	2416	0.12663	40.9926
11 Phenanthrene	178	5.763	5.763	(1.003)	29862	0.94774	306.8040
12 Anthracene	178	5.792	5.798	(1.008)	11880	0.37194	120.4055
13 Carbazole	167	5.904	5.904	(1.028)	6013	0.21973	71.1327

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.598	6.598	(1.148)	58929	1.69349	548.2202
16 Pyrene	202	6.763	6.762	(0.880)	53266	1.64954	533.9940
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	36236	1.20844	391.1990
19 Chrysene	228	7.704	7.704	(1.002)	48531	1.46098	472.9542
20 Benzo(b)fluoranthene	252	8.515	8.521	(0.961)	67399	2.21323	716.4731(M)
21 Benzo(k)fluoranthene	252	8.533	8.545	(0.963)	21044	0.71449	231.2956(QMH)
22 Benzo(a)pyrene	252	8.804	8.809	(0.993)	27861	0.97176	314.5817
24 Indeno(1,2,3-cd)pyrene	276	10.004	10.015	(1.129)	22475	0.82533	267.1773(M)
25 Dibenzo(a,h)anthracene	278	10.021	10.027	(1.131)	7477	0.29723	96.2201
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	22162	0.79739	258.1339(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: 1CD02036.D

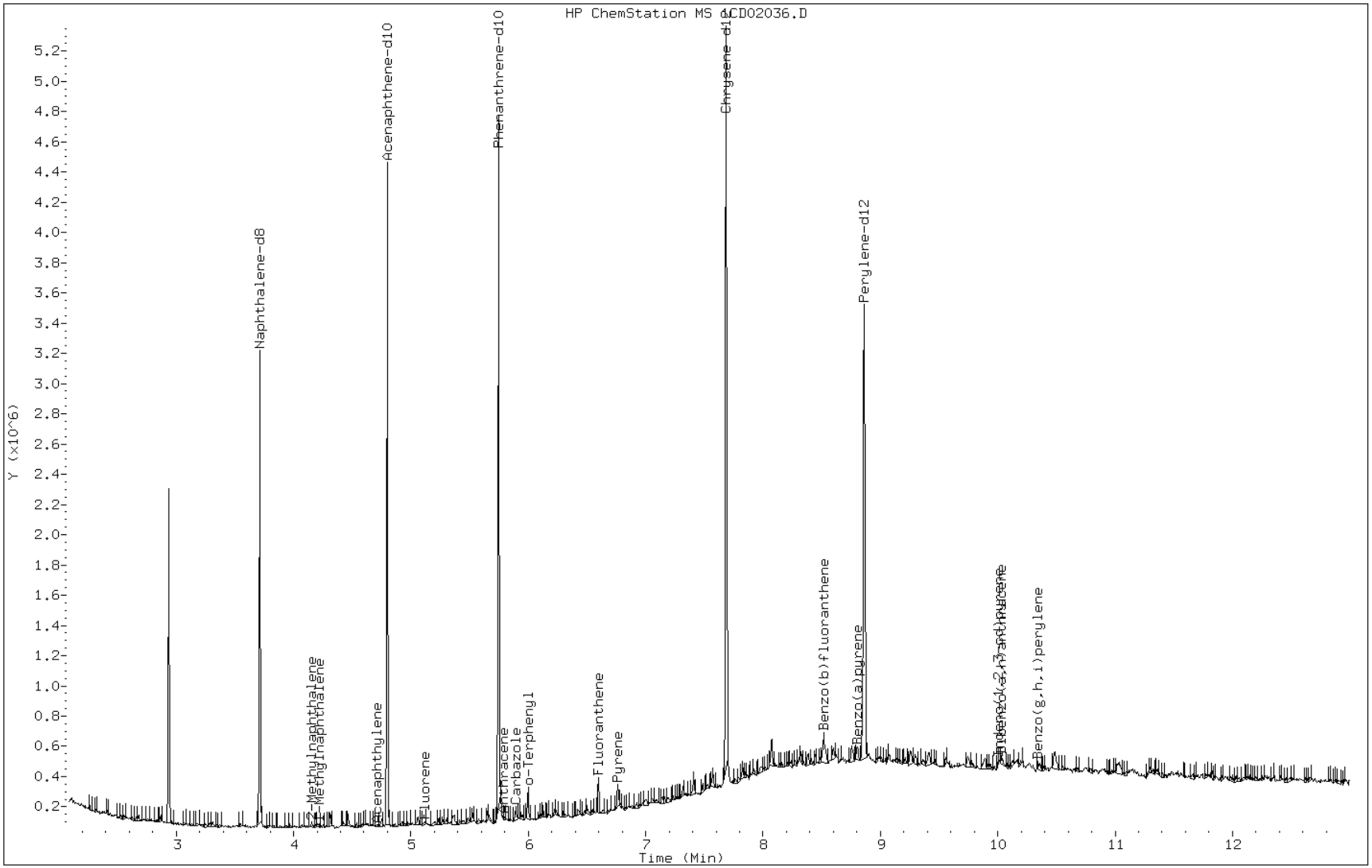
Date: 02-APR-2013 23:04

Client ID: CV0613D-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-5-a

Operator: SCC



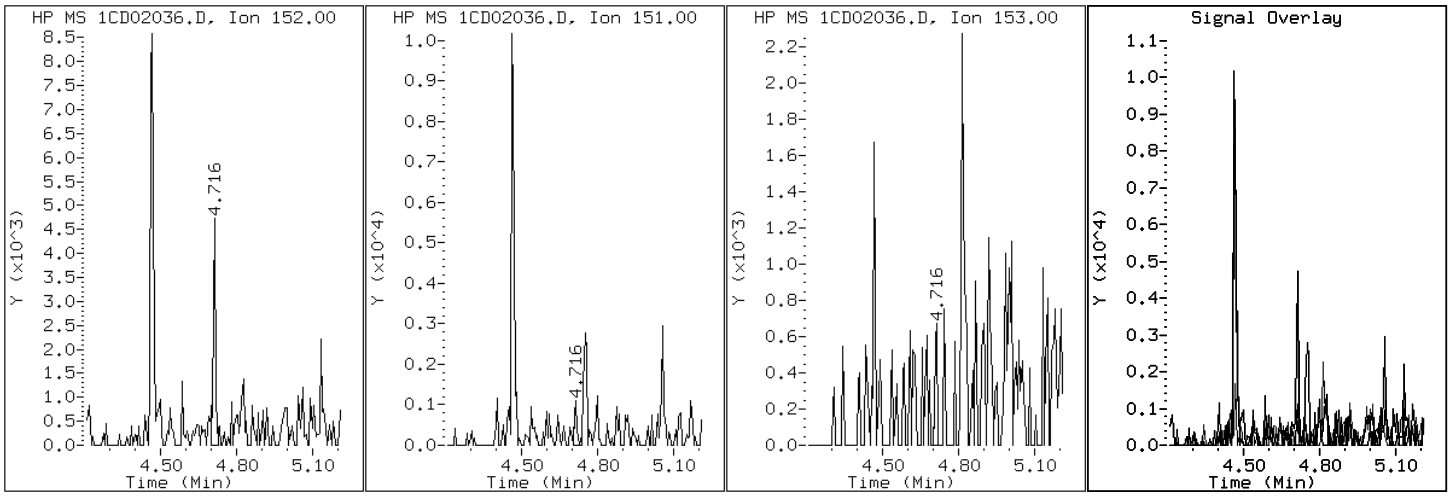
Data File: 1CD02036.D

Date: 02-APR-2013 23:04

Client ID: CV0613D-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-5-a Operator: SCC

5 Acenaphthylene



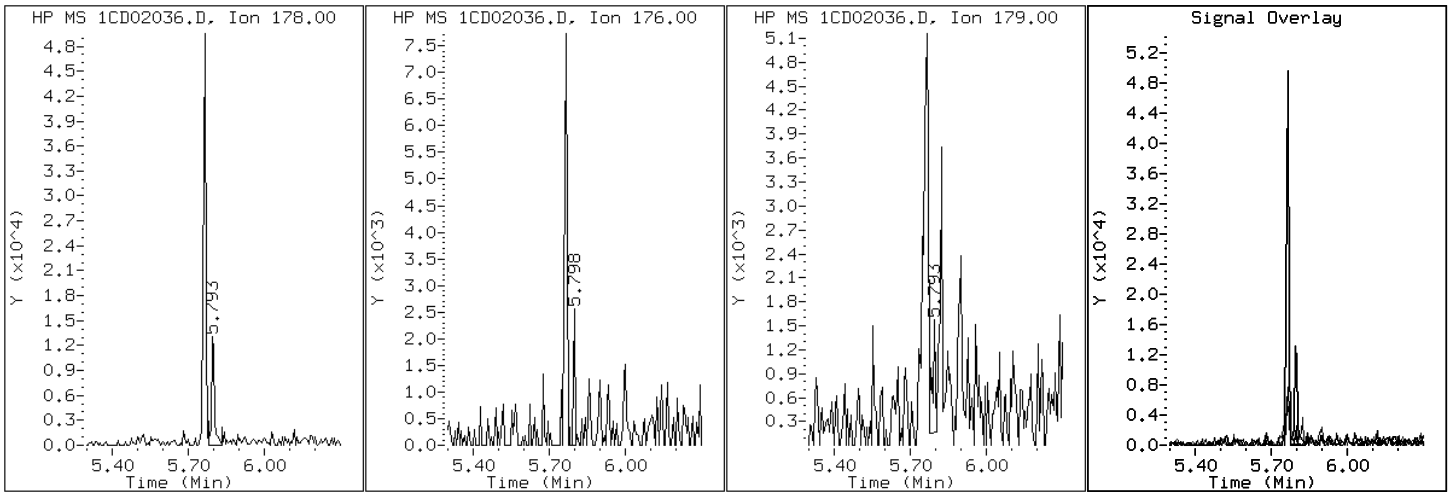
Data File: 1CD02036.D

Date: 02-APR-2013 23:04

Client ID: CV0613D-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-5-a Operator: SCC

12 Anthracene



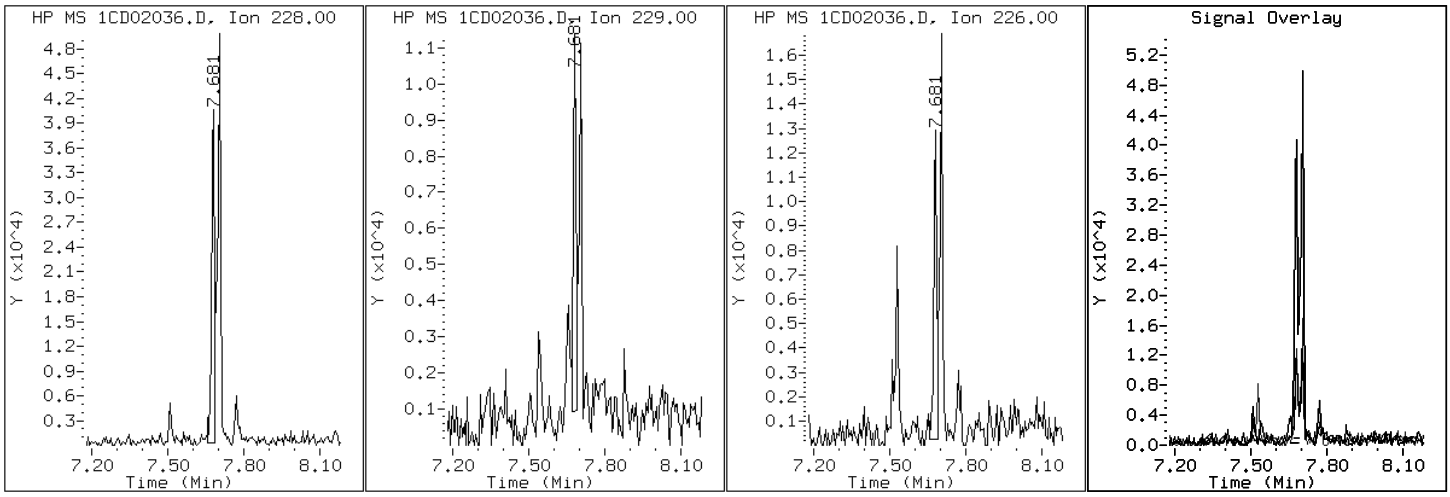
Data File: 1CD02036.D

Date: 02-APR-2013 23:04

Client ID: CV0613D-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-5-a Operator: SCC

17 Benzo(a)anthracene



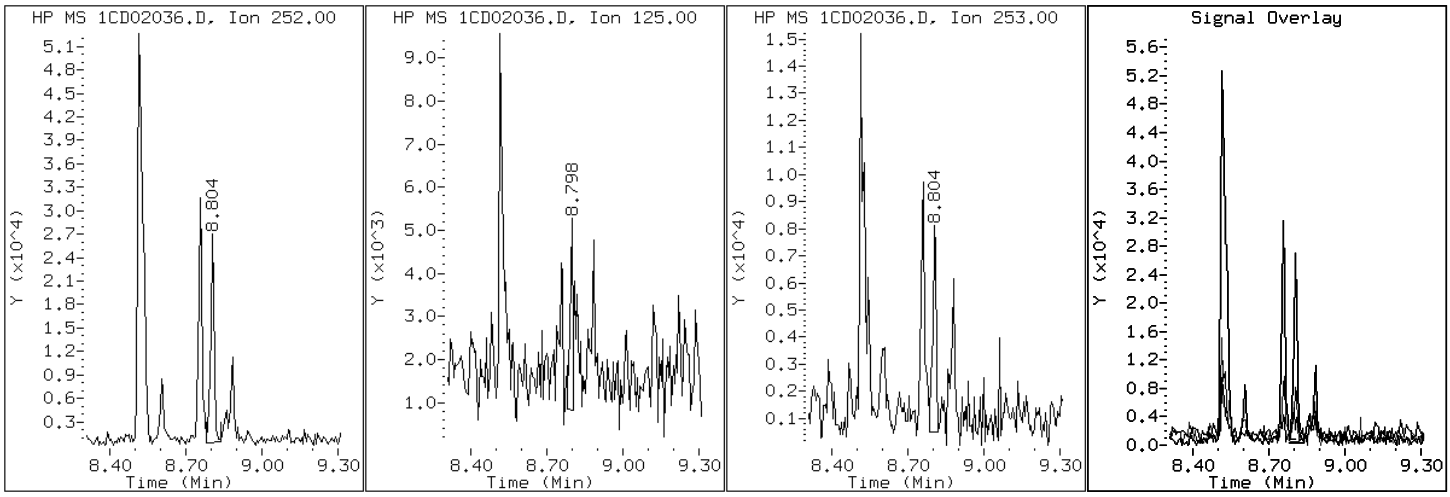
Data File: 1CD02036.D

Date: 02-APR-2013 23:04

Client ID: CV0613D-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-5-a Operator: SCC

22 Benzo(a)pyrene



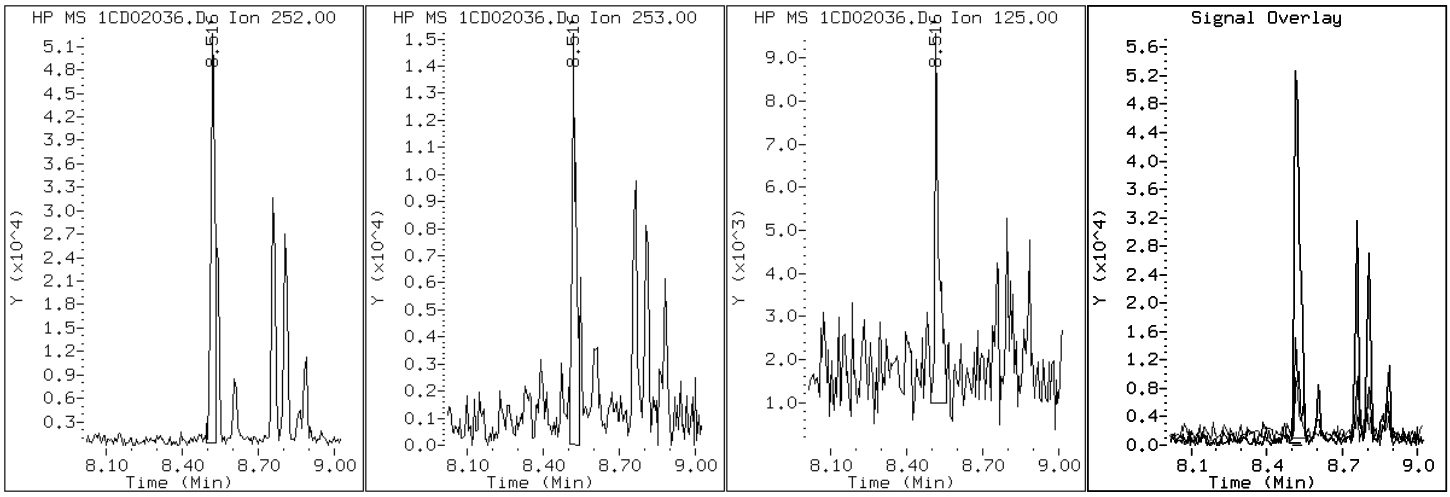
Data File: 1CD02036.D

Date: 02-APR-2013 23:04

Client ID: CV0613D-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-5-a Operator: SCC

20 Benzo(b)fluoranthene



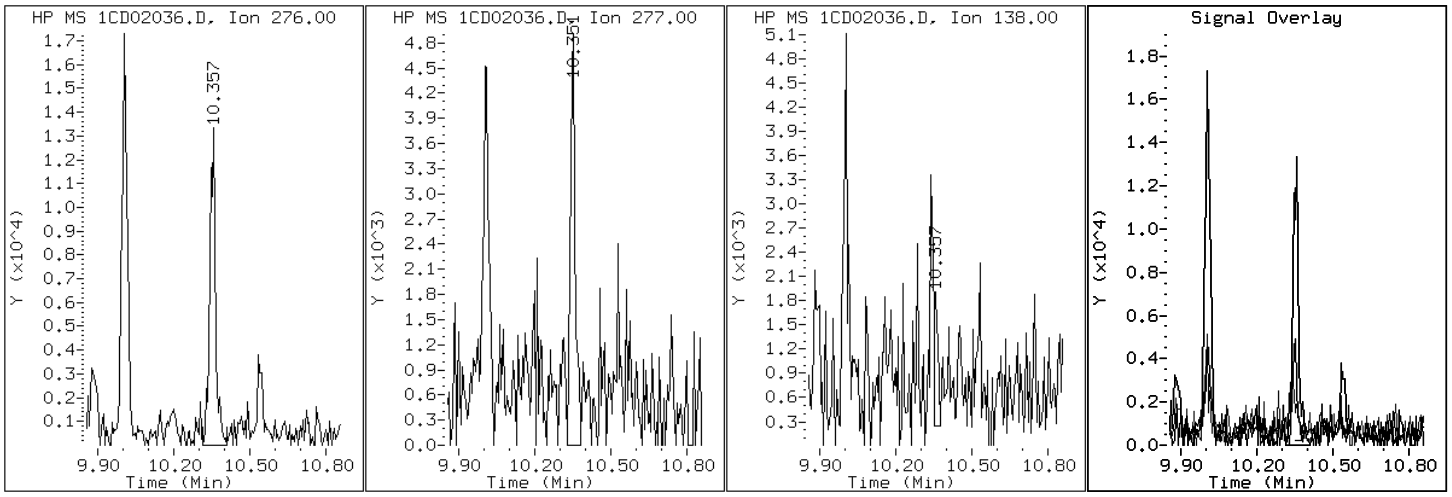
Data File: 1CD02036.D

Date: 02-APR-2013 23:04

Client ID: CV0613D-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-5-a Operator: SCC

26 Benzo(g,h,i)perylene



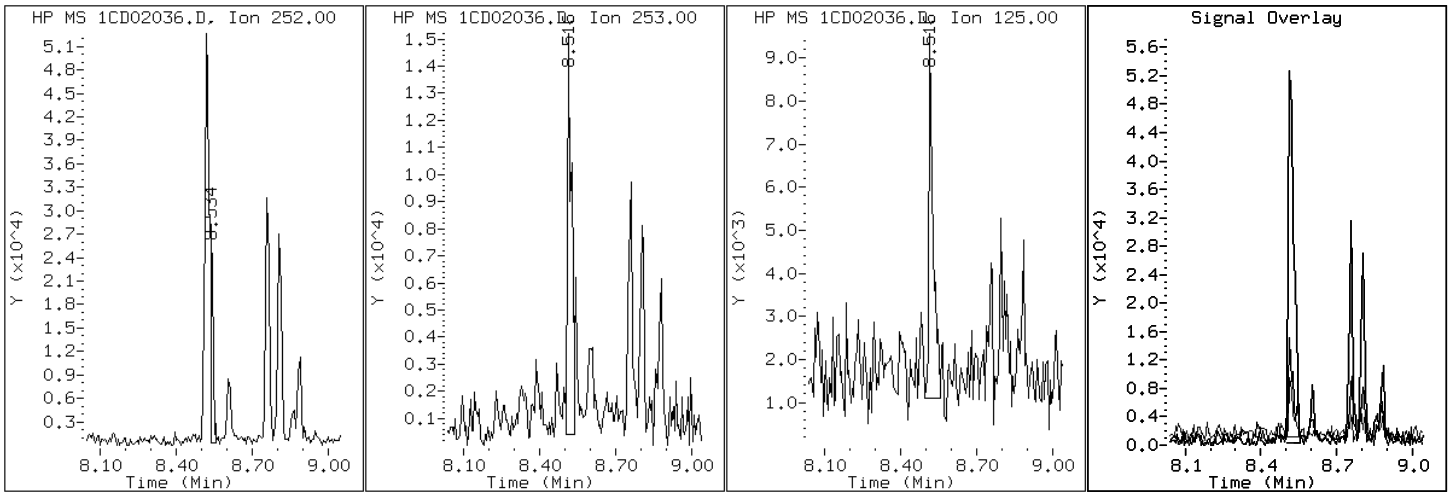
Data File: 1CD02036.D

Date: 02-APR-2013 23:04

Client ID: CV0613D-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-5-a Operator: SCC

21 Benzo(k)fluoranthene



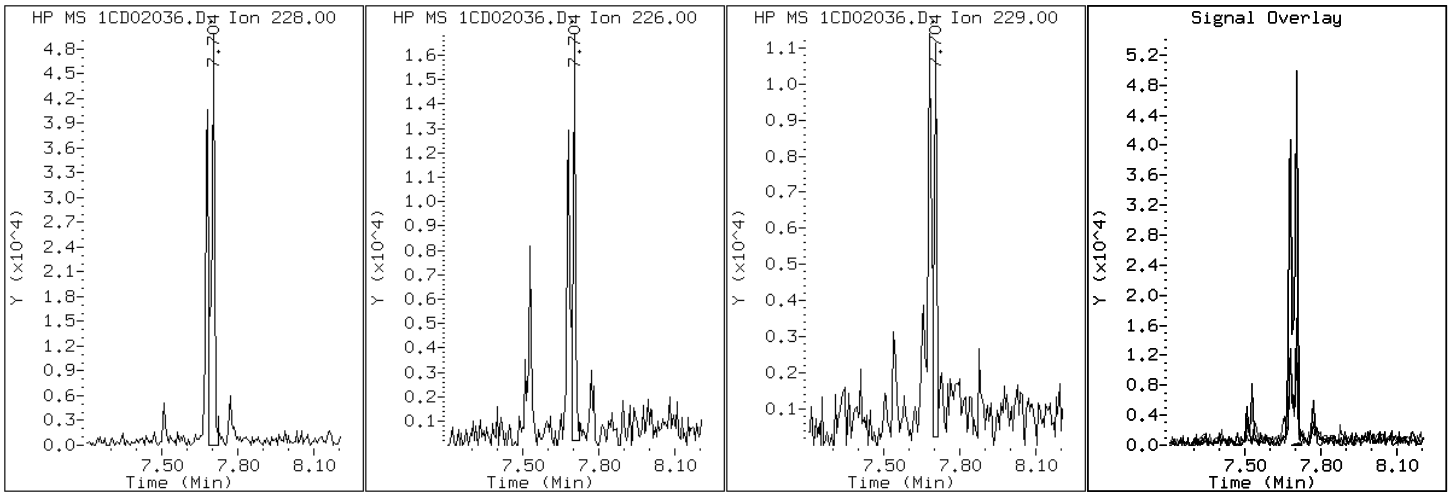
Data File: 1CD02036.D

Date: 02-APR-2013 23:04

Client ID: CV0613D-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-5-a Operator: SCC

19 Chrysene



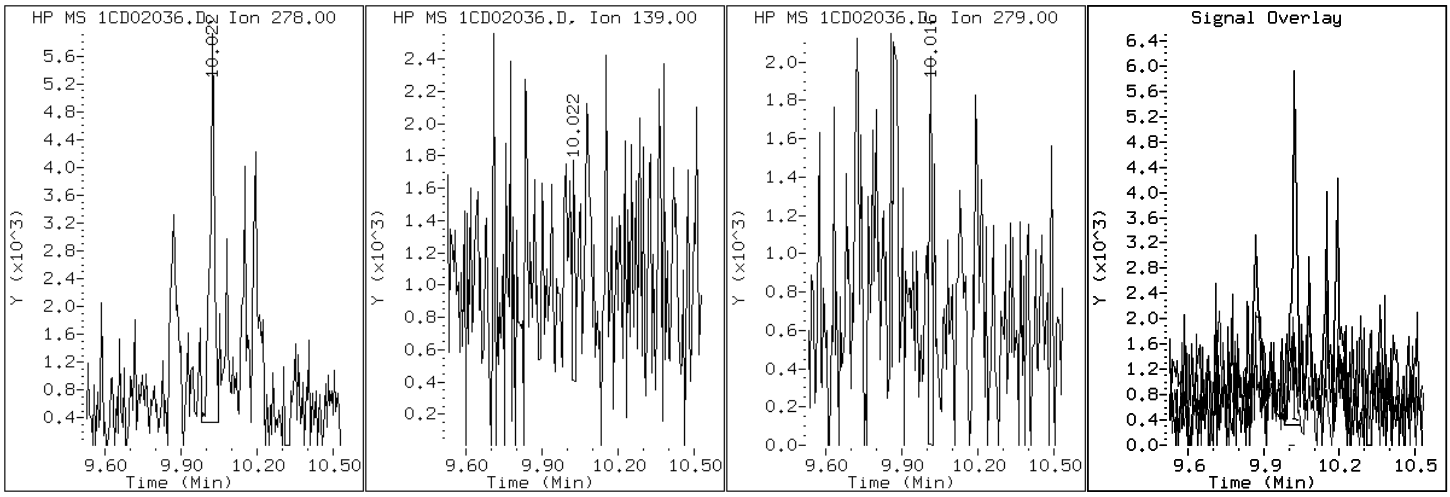
Data File: 1CD02036.D

Date: 02-APR-2013 23:04

Client ID: CV0613D-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-5-a Operator: SCC

25 Dibenzo(a,h)anthracene



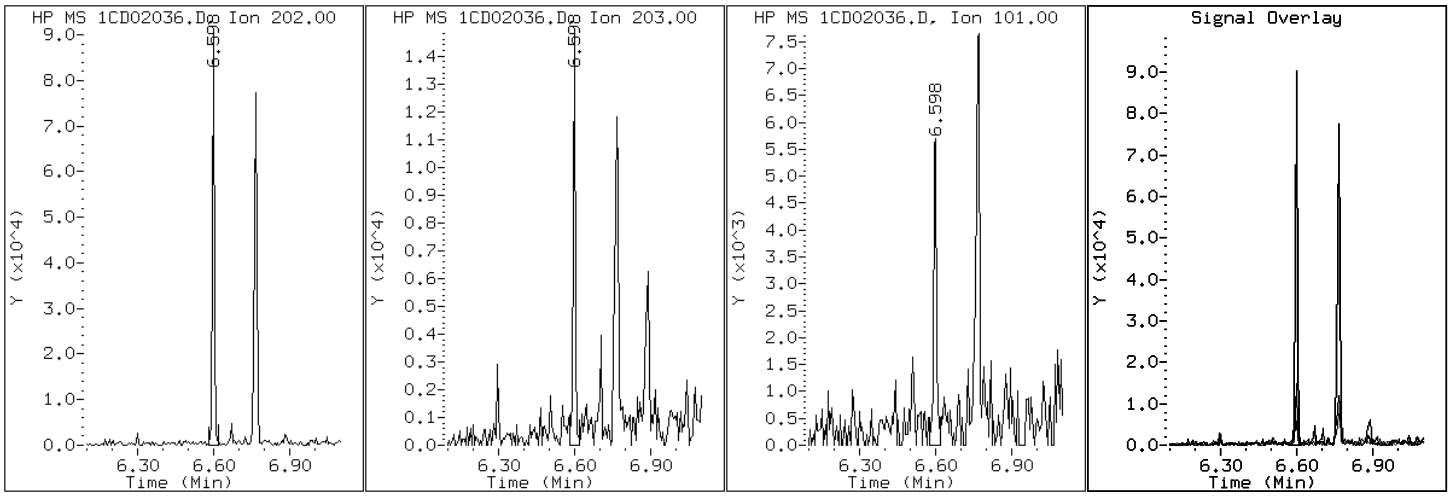
Data File: 1CD02036.D

Date: 02-APR-2013 23:04

Client ID: CV0613D-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-5-a Operator: SCC

15 Fluoranthene



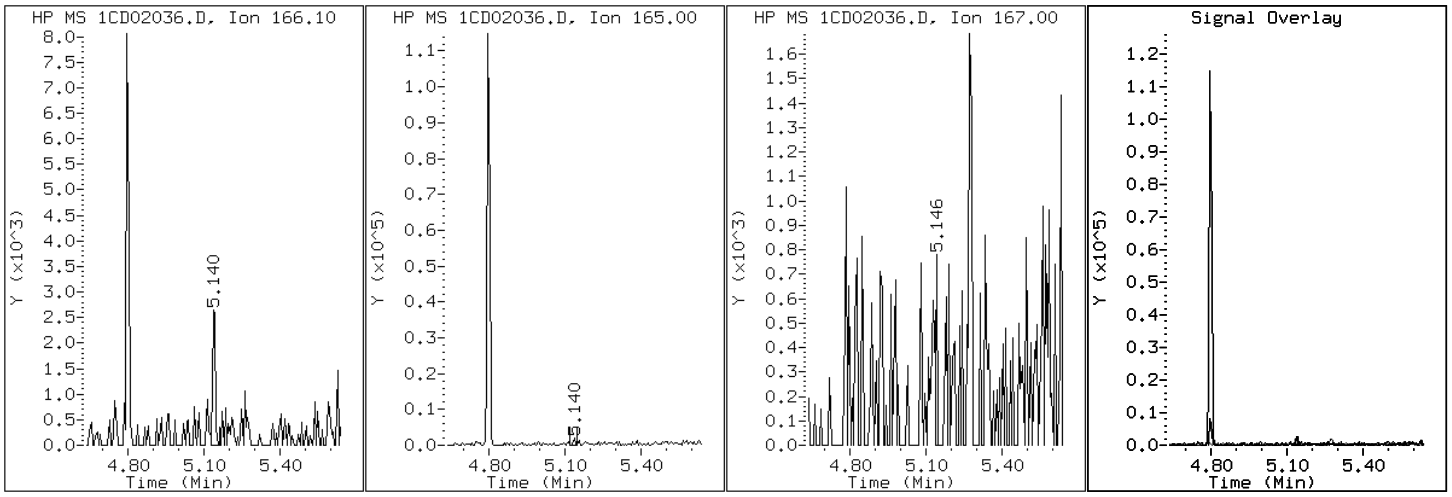
Data File: 1CD02036.D

Date: 02-APR-2013 23:04

Client ID: CV0613D-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-5-a Operator: SCC

9 Fluorene



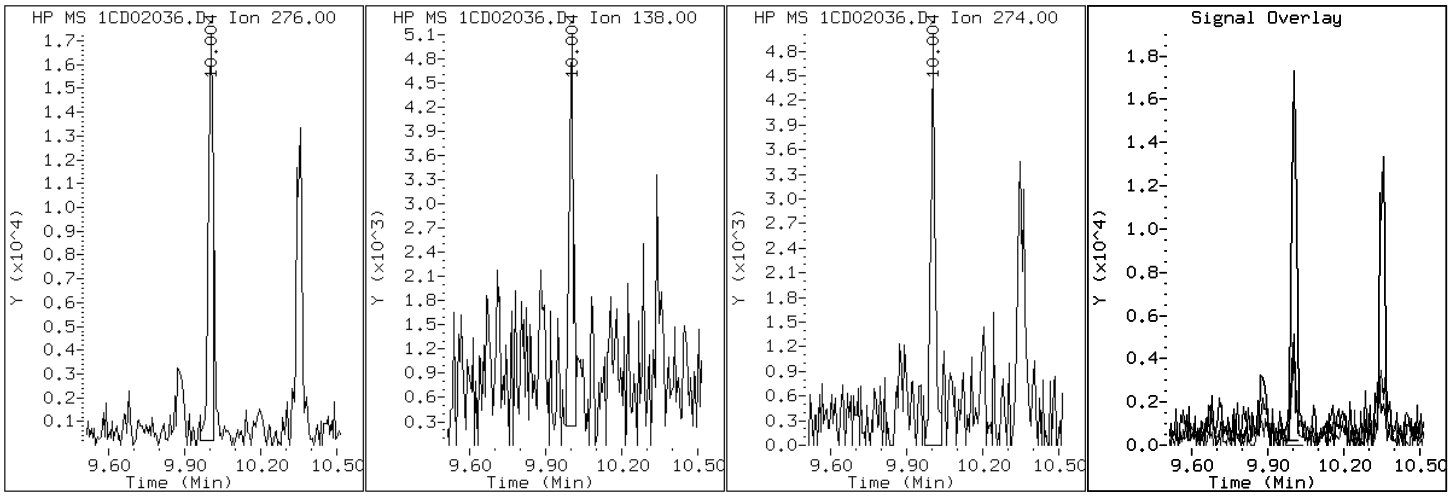
Data File: 1CD02036.D

Date: 02-APR-2013 23:04

Client ID: CV0613D-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-5-a Operator: SCC

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



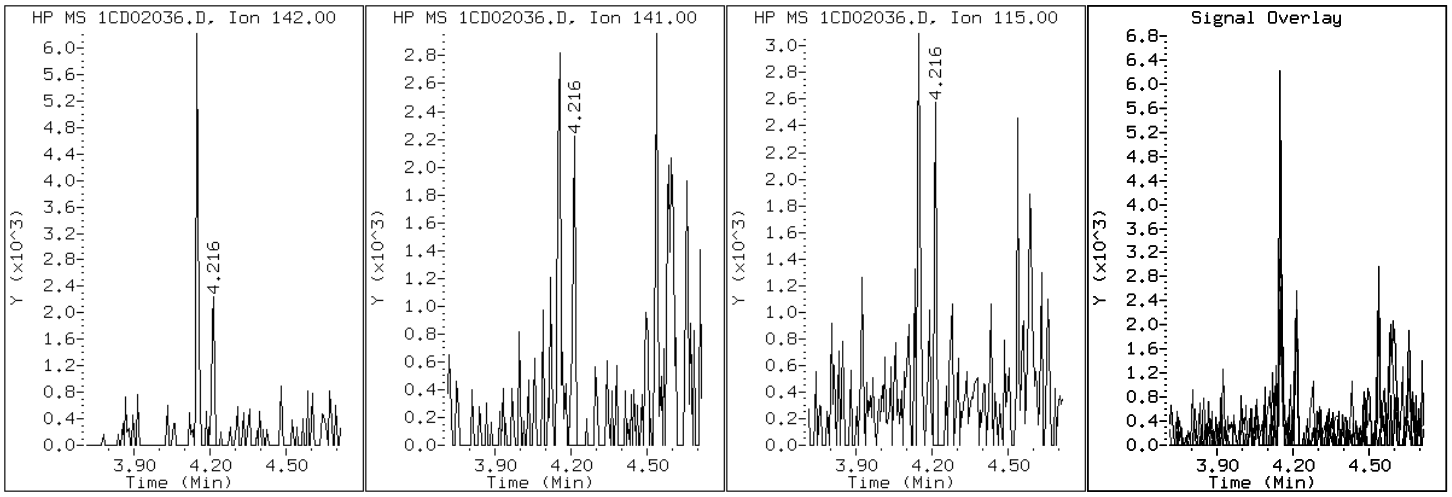
Data File: 1CD02036.D

Date: 02-APR-2013 23:04

Client ID: CV0613D-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-5-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD02036.D

Date: 02-APR-2013 23:04

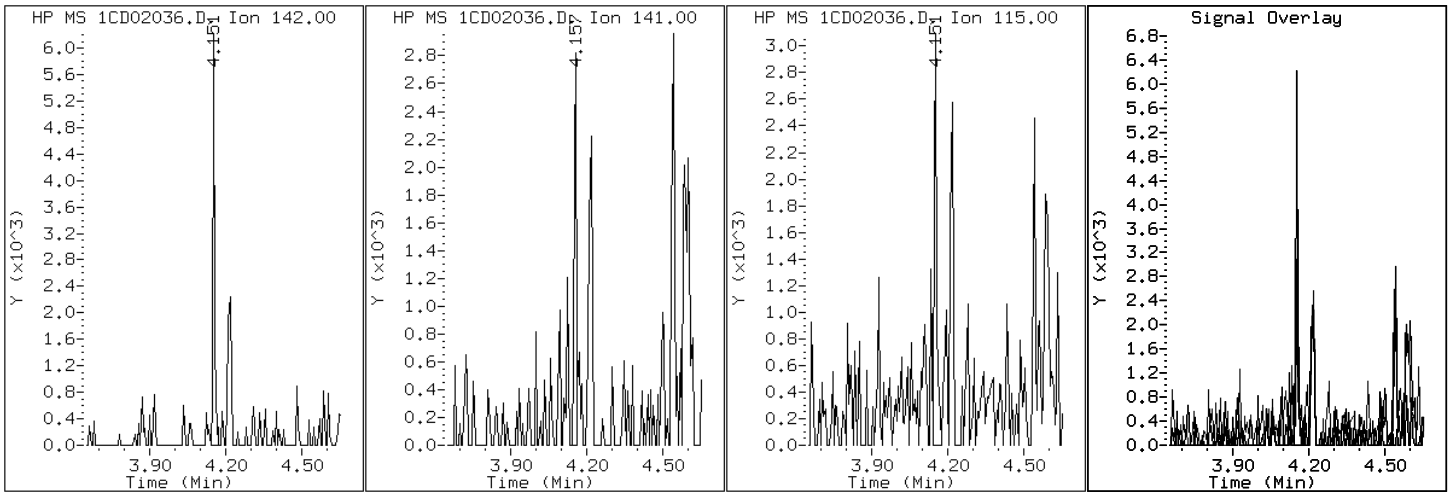
Client ID: CV0613D-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-5-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD02036.D

Date: 02-APR-2013 23:04

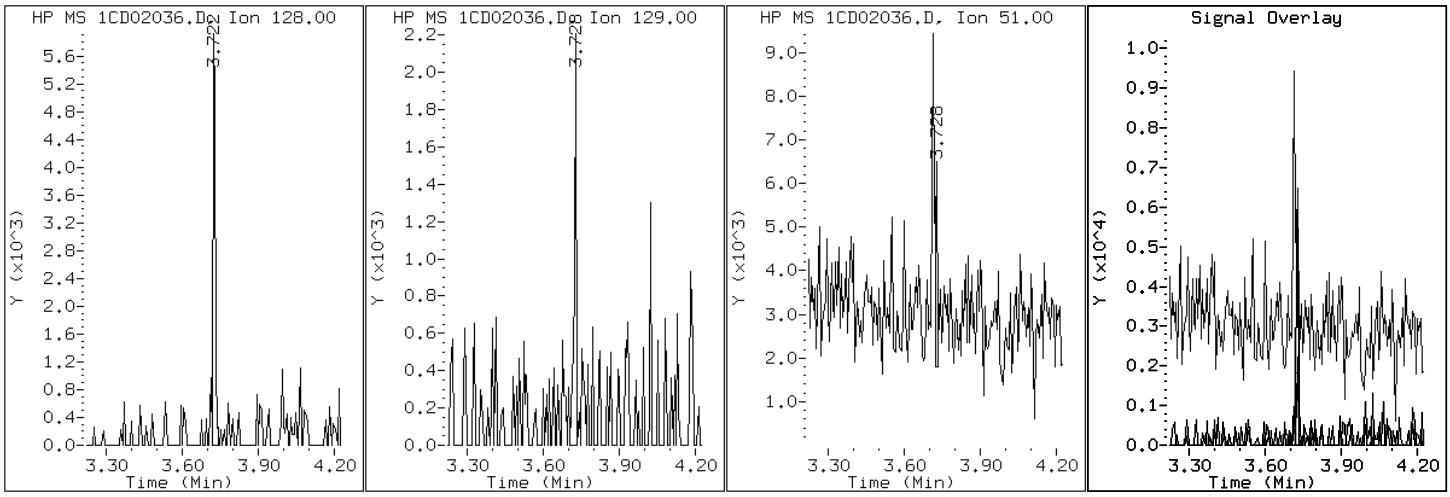
Client ID: CV0613D-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-5-a

Operator: SCC

2 Naphthalene



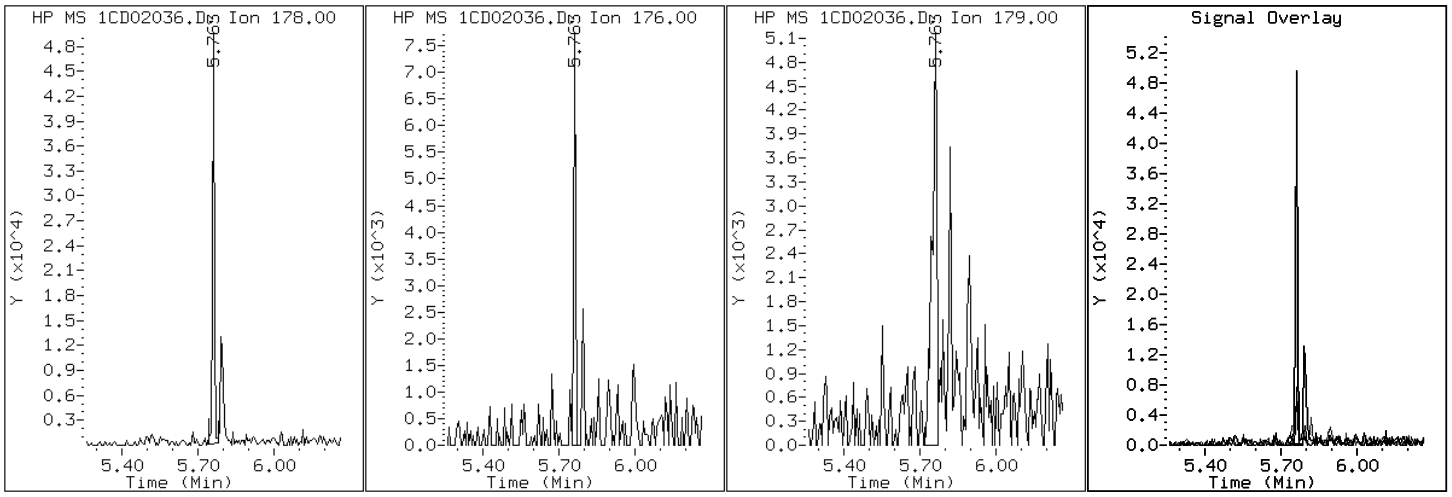
Data File: 1CD02036.D

Date: 02-APR-2013 23:04

Client ID: CV0613D-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-5-a Operator: SCC

11 Phenanthrene



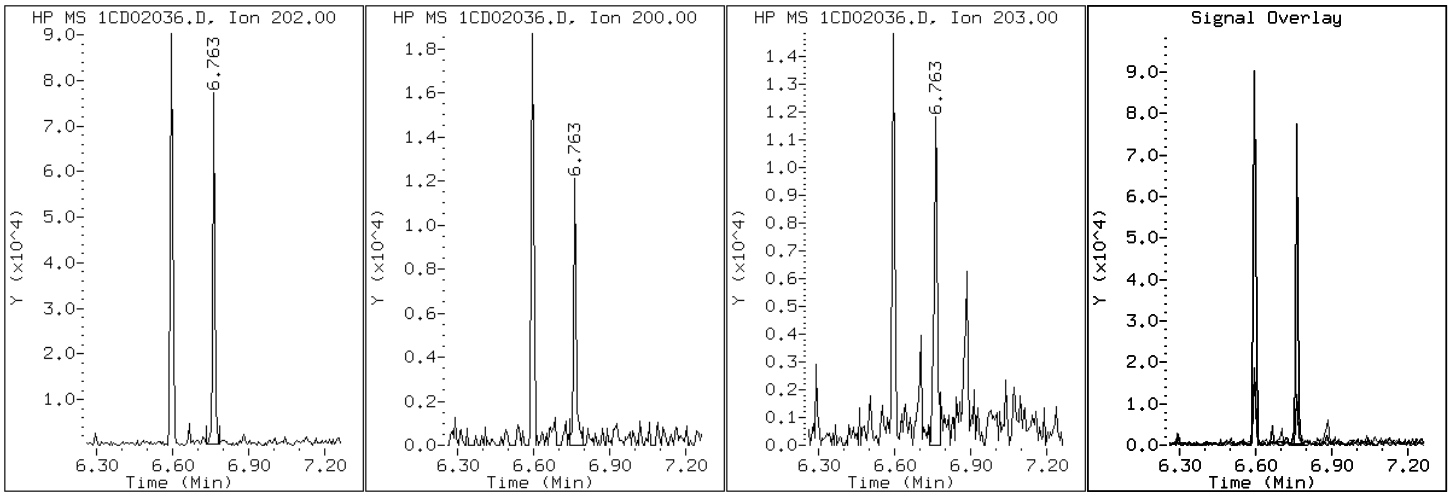
Data File: 1CD02036.D

Date: 02-APR-2013 23:04

Client ID: CV0613D-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-5-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD02036.D
Inj. Date and Time: 02-APR-2013 23:04
Instrument ID: BSMC5973.i
Client ID: CV0613D-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

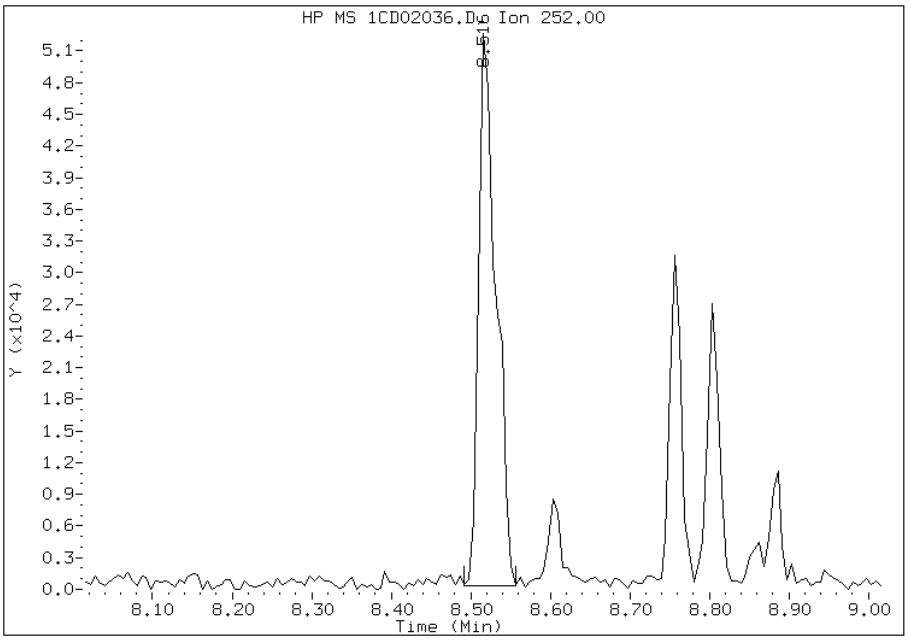
Processing Integration Results

RT: 8.52

Response: 79530

Amount: 3

Conc: 845



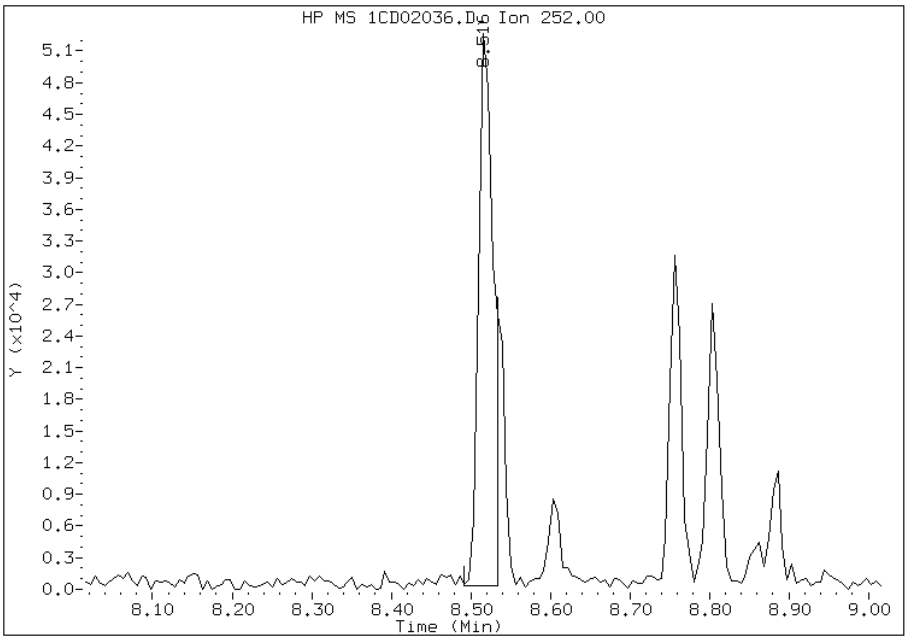
Manual Integration Results

RT: 8.52

Response: 67399

Amount: 2

Conc: 716



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:03
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD02036.D
Inj. Date and Time: 02-APR-2013 23:04
Instrument ID: BSMC5973.i
Client ID: CV0613D-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/03/2013

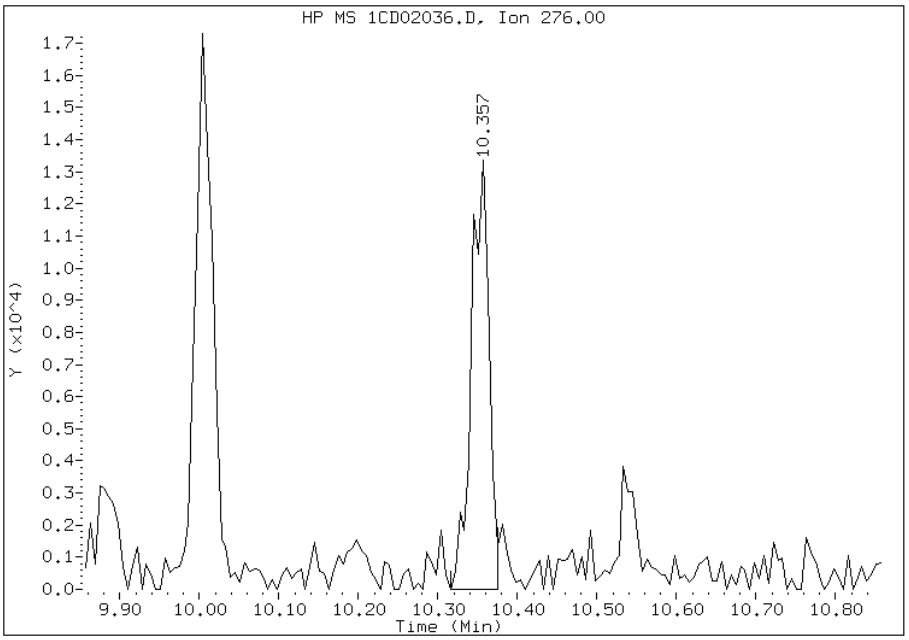
Processing Integration Results

RT: 10.36

Response: 20596

Amount: 1

Conc: 240



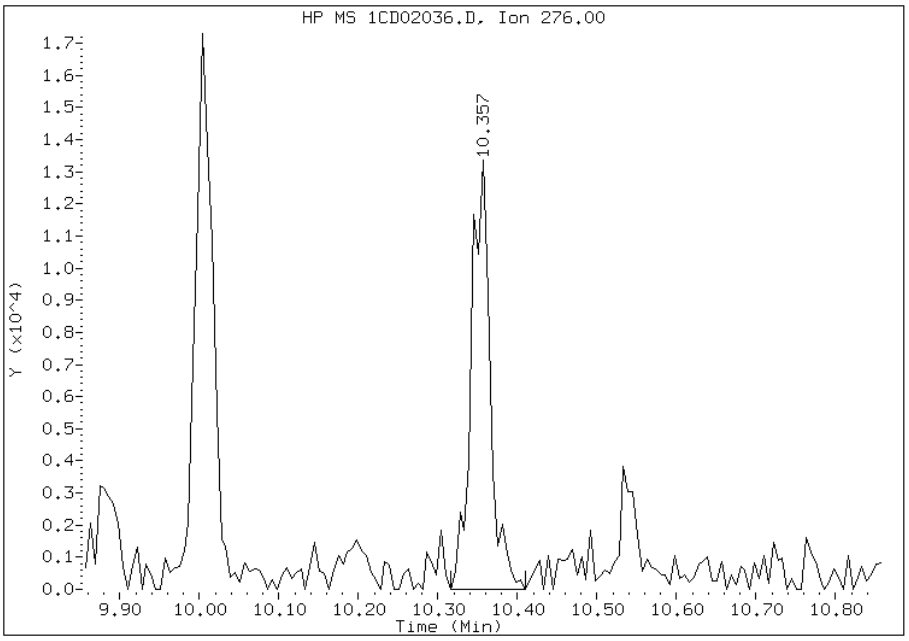
Manual Integration Results

RT: 10.36

Response: 22162

Amount: 1

Conc: 258



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:05
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD02036.D
Inj. Date and Time: 02-APR-2013 23:04
Instrument ID: BSMC5973.i
Client ID: CV0613D-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

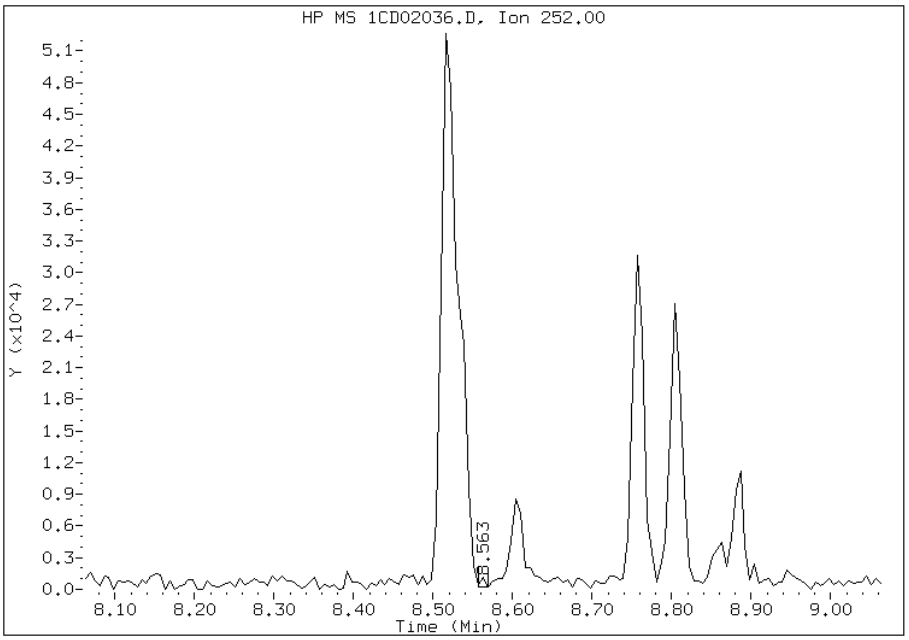
Processing Integration Results

RT: 8.56

Response: 441

Amount: 0

Conc: 5



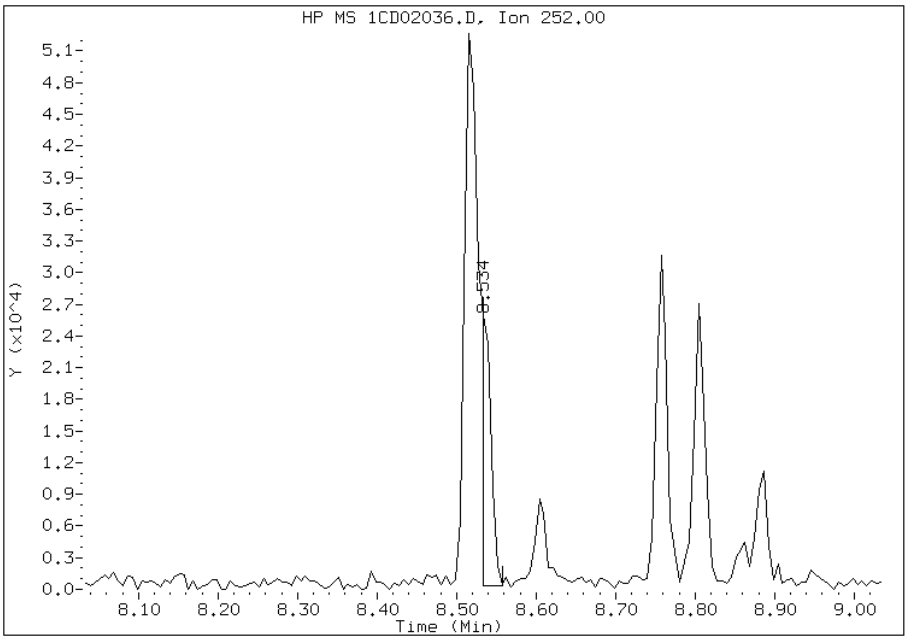
Manual Integration Results

RT: 8.53

Response: 21044

Amount: 1

Conc: 231



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:03
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD02036.D
Inj. Date and Time: 02-APR-2013 23:04
Instrument ID: BSMC5973.i
Client ID: CV0613D-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

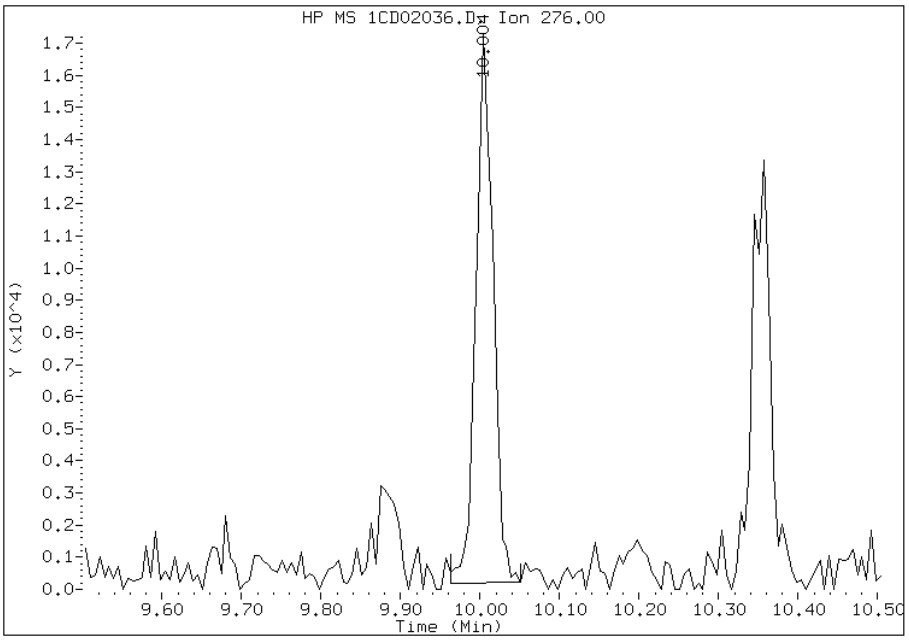
Processing Integration Results

RT: 10.00

Response: 25382

Amount: 1

Conc: 302



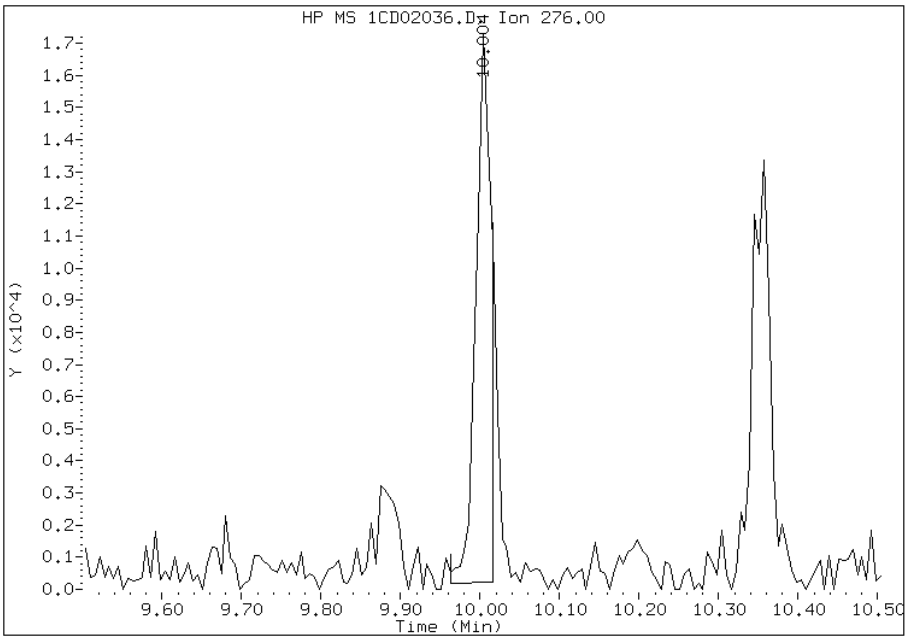
Manual Integration Results

RT: 10.00

Response: 22475

Amount: 1

Conc: 267



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:05
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-1

SDG No.: 68088766-1

Client Sample ID: CV0613E-CS | Lab Sample ID: 680-88766-6

Matrix: Solid | Lab File ID: 1DD03007.D

Analysis Method: 8270C LL | Date Collected: 03/25/2013 13:43

Extract. Method: 3546 | Date Extracted: 04/01/2013 13:16

Sample wt/vol: 14.95(g) | Date Analyzed: 04/03/2013 13:30

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

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

% Moisture: 15.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136118 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	470	U	470	95
208-96-8	Acenaphthylene	110	J	190	24
120-12-7	Anthracene	290		40	20
56-55-3	Benzo[a]anthracene	910	F	38	18
50-32-8	Benzo[a]pyrene	830	F	49	25
205-99-2	Benzo[b]fluoranthene	1500	F	58	29
191-24-2	Benzo[g,h,i]perylene	760		95	21
207-08-9	Benzo[k]fluoranthene	530		38	17
218-01-9	Chrysene	1000	F	43	21
53-70-3	Dibenz(a,h)anthracene	210		95	19
206-44-0	Fluoranthene	1500	F	95	19
86-73-7	Fluorene	77	J	95	19
193-39-5	Indeno[1,2,3-cd]pyrene	670		95	34
90-12-0	1-Methylnaphthalene	110	J	190	21
91-57-6	2-Methylnaphthalene	150	J	190	34
91-20-3	Naphthalene	150	J	190	21
85-01-8	Phenanthrene	830	F	38	18
129-00-0	Pyrene	1300	F	95	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	71		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040313.b\1DD03007.D
Lab Smp Id: 680-88766-A-6-G Client Smp ID: CV0613E-CS
Inj Date : 03-APR-2013 13:30
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88766-A-6-G
Misc Info : 680-88766-A-6-G
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D040313.b\dFASTPAHi.m
Meth Date : 03-Apr-2013 12:14 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 7
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	15.179	% 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	6.085	6.083	(1.000)	1597929	40.0000	
* 6 Acenaphthene-d10	164	7.766	7.764	(1.000)	956642	40.0000	
* 9 Phenanthrene-d10	188	9.023	9.027	(1.000)	1514933	40.0000	
$ 13 o-Terphenyl	230	9.335	9.338	(1.035)	41564	1.77420	560
* 17 Chrysene-d12	240	11.344	11.348	(1.000)	1325225	40.0000	
* 22 Perylene-d12	264	13.183	13.187	(1.000)	1351138	40.0000	
2 Naphthalene	128	6.103	6.107	(1.003)	19859	0.46458	150
3 2-Methylnaphthalene	142	6.814	6.812	(1.120)	12519	0.45976	140
4 1-Methylnaphthalene	142	6.902	6.906	(1.134)	9172	0.35971	110
5 Acenaphthylene	152	7.637	7.640	(0.983)	14392	0.34124	110
7 Acenaphthene	154	7.789	7.793	(1.003)	4615	0.17946	57
8 Fluorene	166	8.236	8.234	(1.061)	7316	0.24350	77
10 Phenanthrene	178	9.041	9.045	(1.002)	113737	2.64480	830
11 Anthracene	178	9.082	9.086	(1.007)	39003	0.90649	280

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.223	9.227	(1.022)	18742	0.48726	150
14 Fluoranthene	202	10.028	10.032	(1.111)	208940	4.65575	1500
15 Pyrene	202	10.216	10.220	(0.901)	174634	4.24825	1300
16 Benzo(a)anthracene	228	11.326	11.330	(0.998)	105125	2.89746	910
18 Chrysene	228	11.367	11.371	(1.002)	119238	3.18332	1000
19 Benzo(b)fluoranthene	252	12.637	12.646	(0.959)	163284	4.69503	1500
20 Benzo(k)fluoranthene	252	12.666	12.682	(0.961)	61435	1.68714	530
21 Benzo(a)pyrene	252	13.089	13.099	(0.993)	90483	2.62912	830
23 Indeno(1,2,3-cd)pyrene	276	14.775	14.791	(1.121)	77993	2.12354	670(M)
24 Dibenzo(a,h)anthracene	278	14.799	14.820	(1.123)	23108	0.68127	210
25 Benzo(g,h,i)perylene	276	15.216	15.232	(1.154)	84622	2.41654	760

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD03007.D

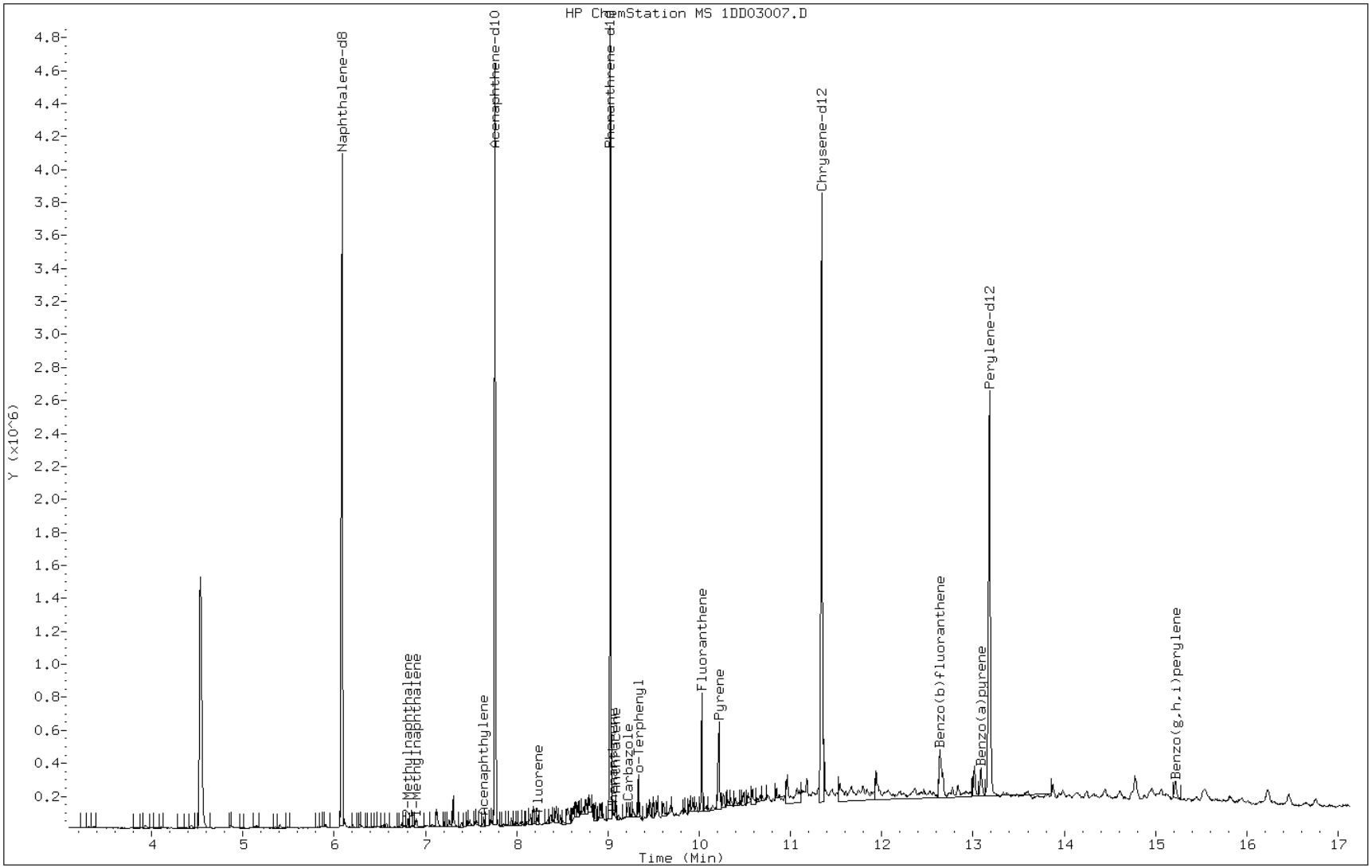
Date: 03-APR-2013 13:30

Client ID: CV0613E-CS

Instrument: BSMSD.i

Sample Info: 680-88766-A-6-G

Operator: SCC



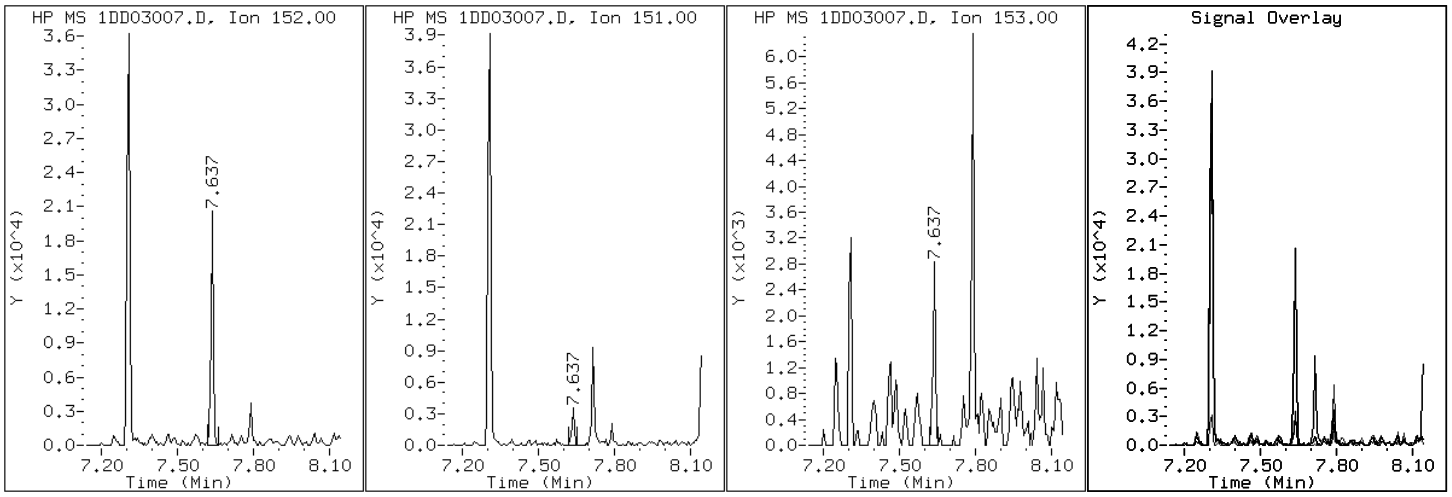
Data File: 1DD03007.D

Date: 03-APR-2013 13:30

Client ID: CV0613E-CS Instrument: BSMSD.i

Sample Info: 680-88766-A-6-G Operator: SCC

5 Acenaphthylene



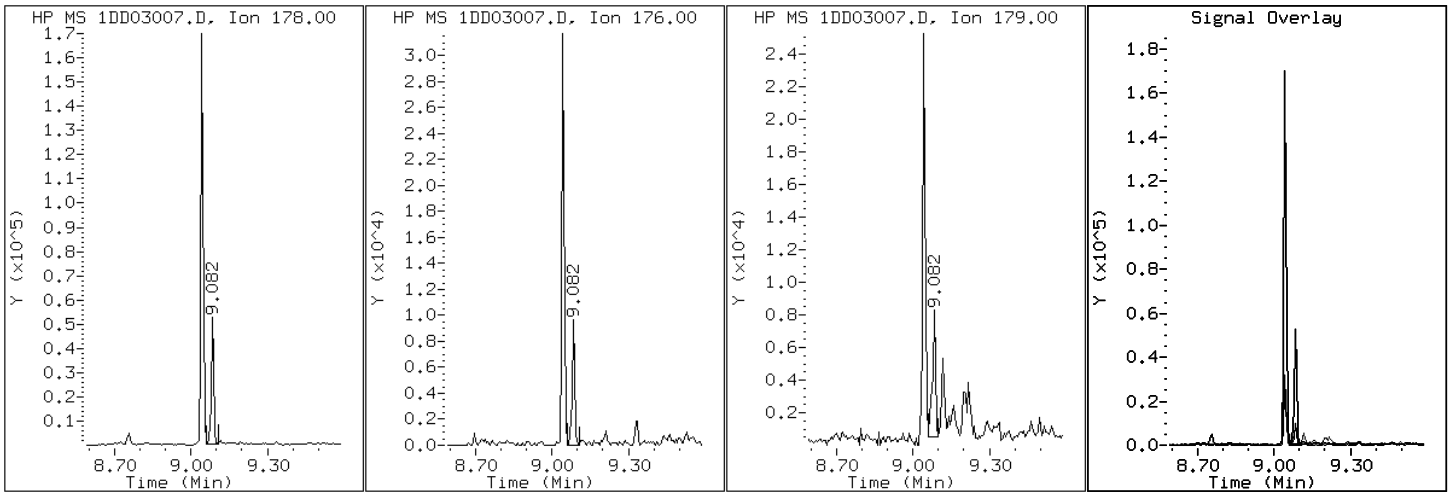
Data File: 1DD03007.D

Date: 03-APR-2013 13:30

Client ID: CV0613E-CS Instrument: BSMSD.i

Sample Info: 680-88766-A-6-G Operator: SCC

11 Anthracene



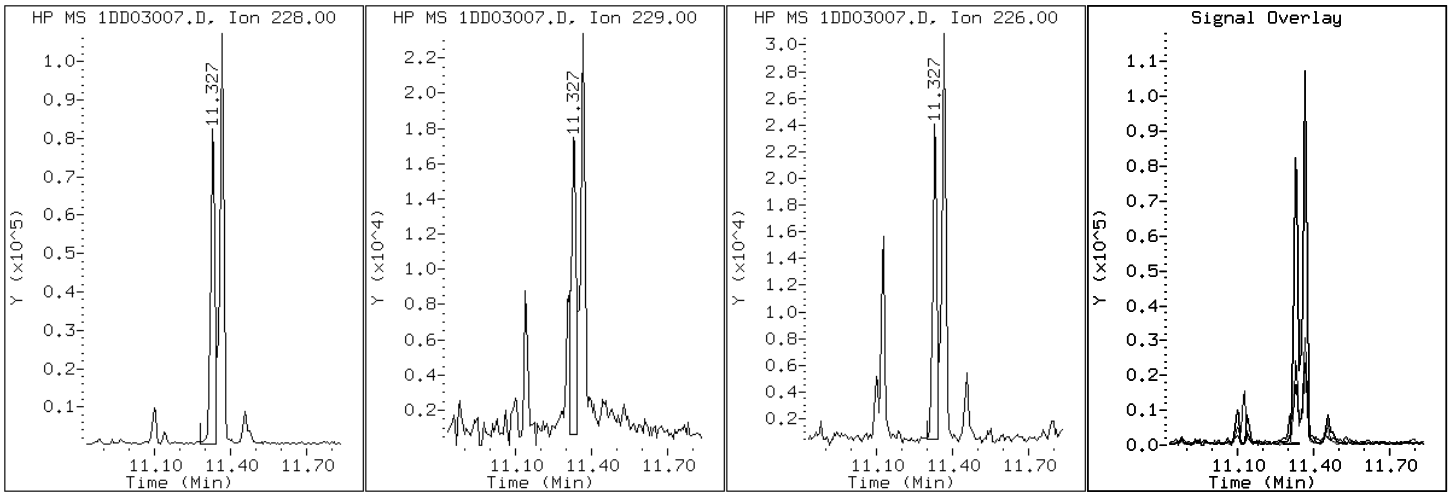
Data File: 1DD03007.D

Date: 03-APR-2013 13:30

Client ID: CV0613E-CS Instrument: BSMSD.i

Sample Info: 680-88766-A-6-G Operator: SCC

16 Benzo(a)anthracene



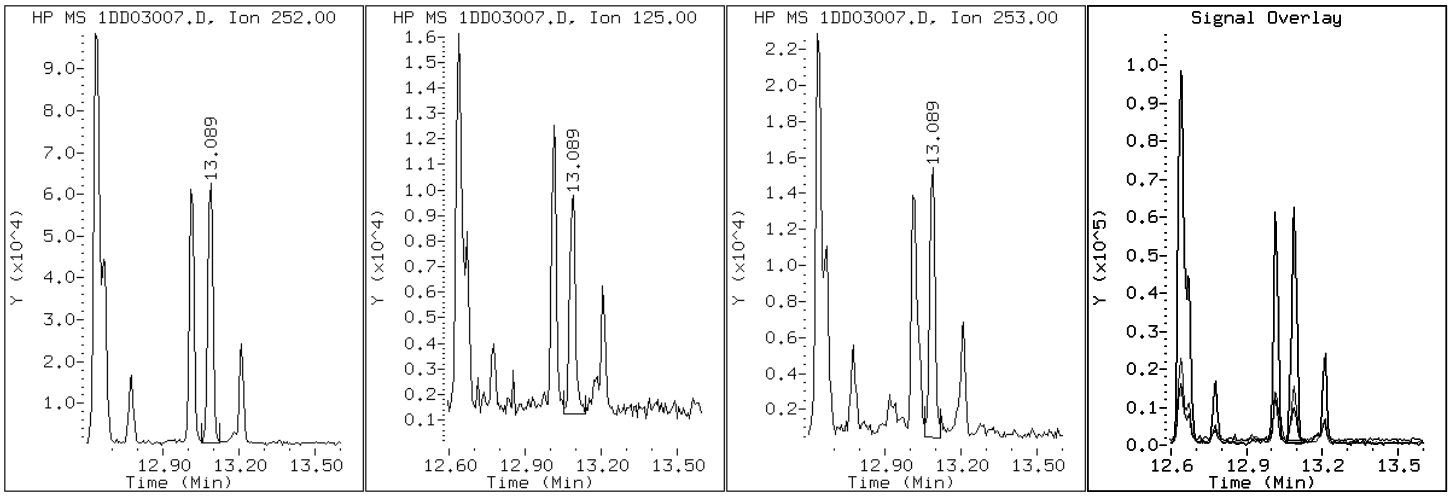
Data File: 1DD03007.D

Date: 03-APR-2013 13:30

Client ID: CV0613E-CS Instrument: BSMSD.i

Sample Info: 680-88766-A-6-G Operator: SCC

21 Benzo(a)pyrene



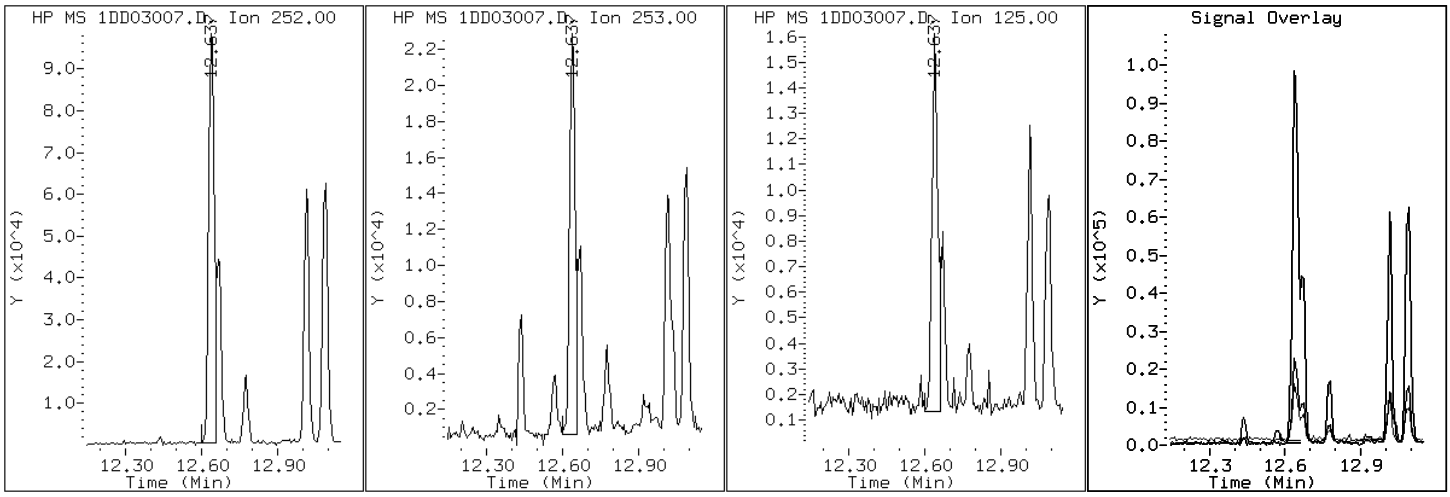
Data File: 1DD03007.D

Date: 03-APR-2013 13:30

Client ID: CV0613E-CS Instrument: BSMSD.i

Sample Info: 680-88766-A-6-G Operator: SCC

19 Benzo(b)fluoranthene



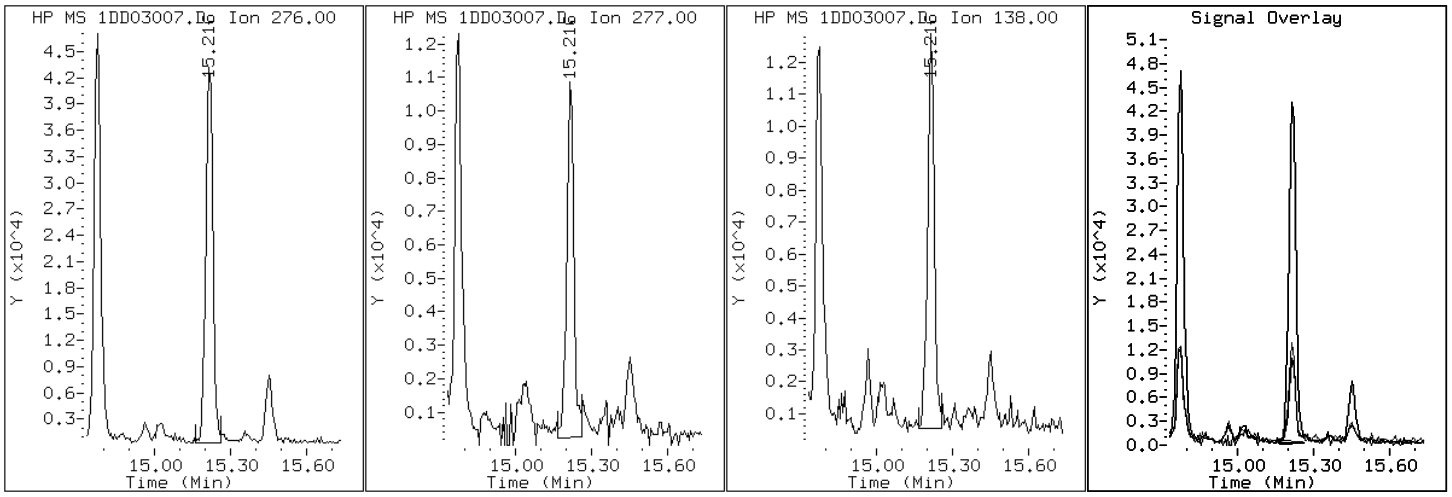
Data File: 1DD03007.D

Date: 03-APR-2013 13:30

Client ID: CV0613E-CS Instrument: BSMSD.i

Sample Info: 680-88766-A-6-G Operator: SCC

25 Benzo(g,h,i)perylene



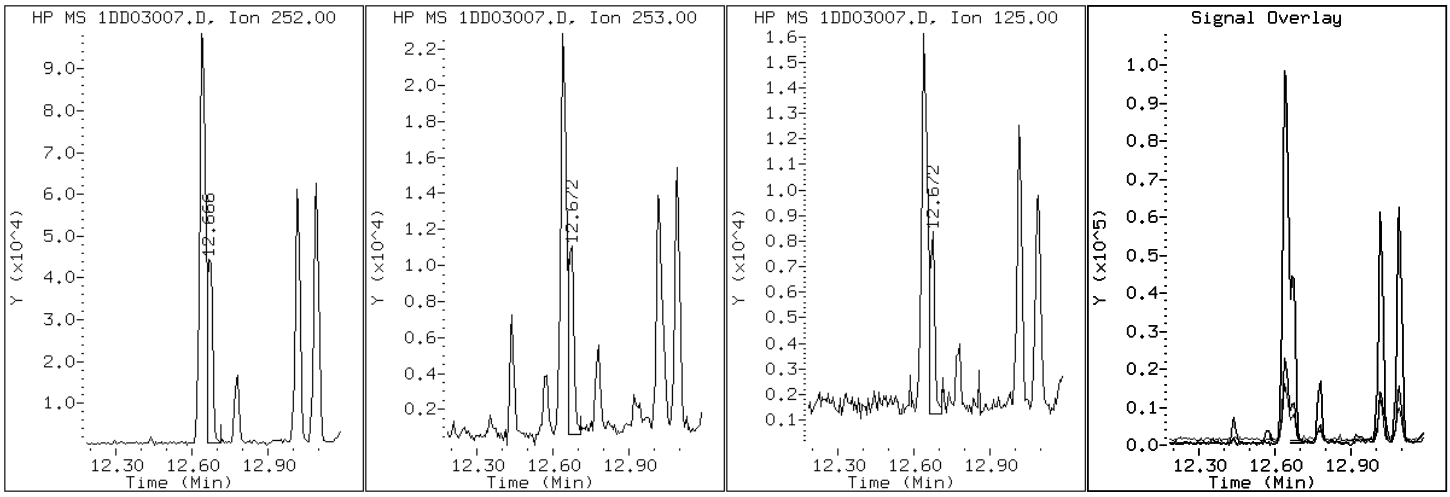
Data File: 1DD03007.D

Date: 03-APR-2013 13:30

Client ID: CV0613E-CS Instrument: BSMSD.i

Sample Info: 680-88766-A-6-G Operator: SCC

20 Benzo(k)fluoranthene



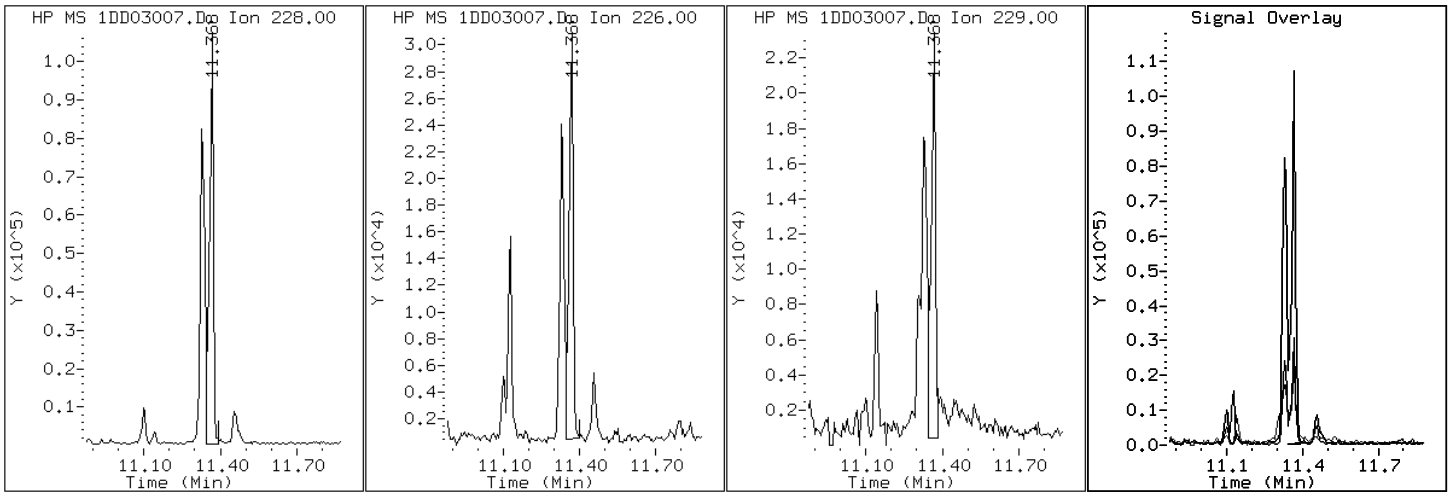
Data File: 1DD03007.D

Date: 03-APR-2013 13:30

Client ID: CV0613E-CS Instrument: BSMSD.i

Sample Info: 680-88766-A-6-G Operator: SCC

18 Chrysene



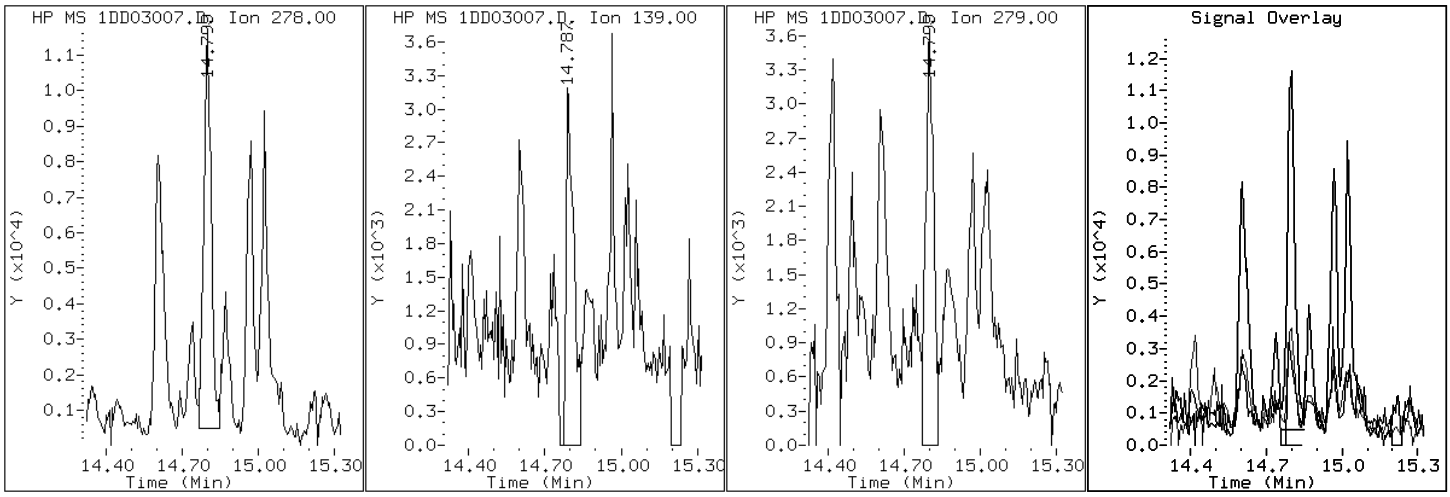
Data File: 1DD03007.D

Date: 03-APR-2013 13:30

Client ID: CV0613E-CS Instrument: BSMSD.i

Sample Info: 680-88766-A-6-G Operator: SCC

24 Dibenzo(a,h)anthracene



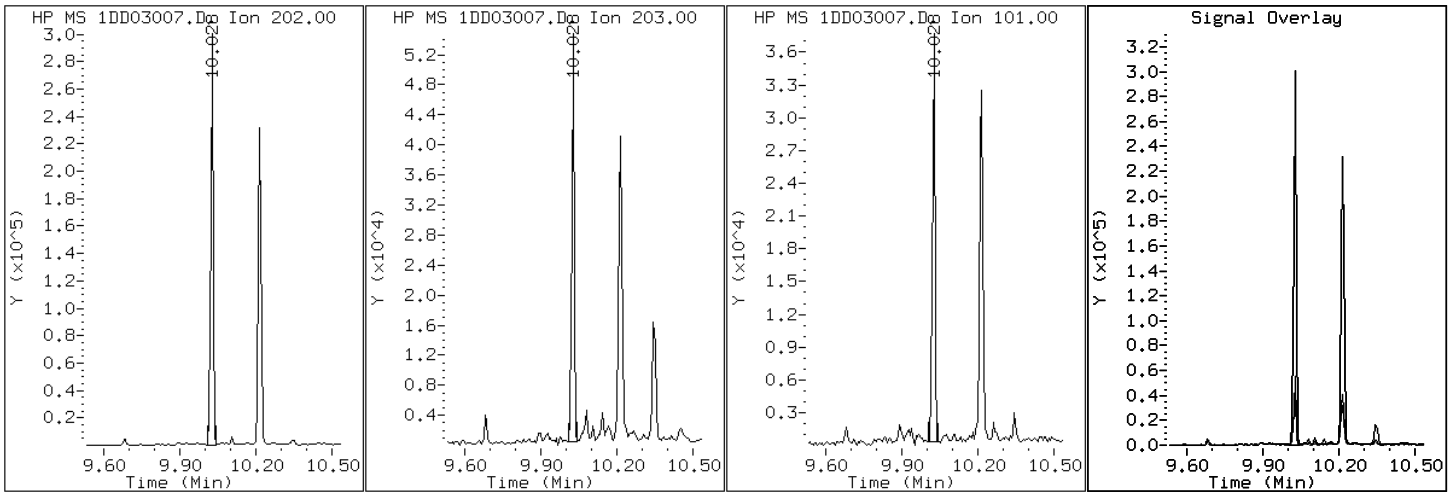
Data File: 1DD03007.D

Date: 03-APR-2013 13:30

Client ID: CV0613E-CS Instrument: BSMSD.i

Sample Info: 680-88766-A-6-G Operator: SCC

14 Fluoranthene



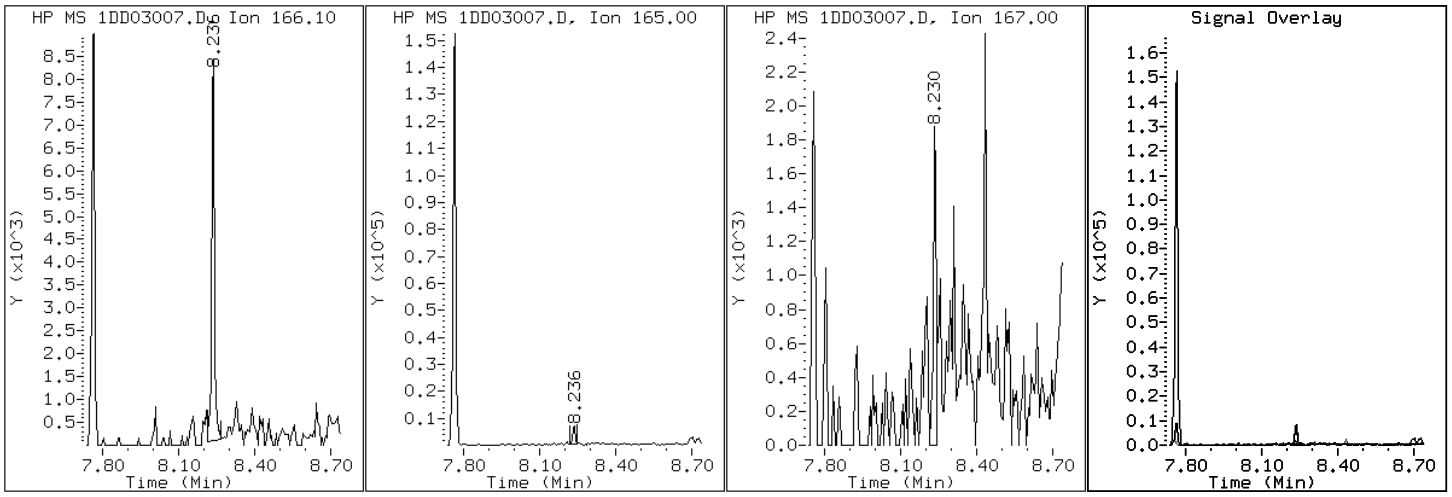
Data File: 1DD03007.D

Date: 03-APR-2013 13:30

Client ID: CV0613E-CS Instrument: BSMSD.i

Sample Info: 680-88766-A-6-G Operator: SCC

8 Fluorene



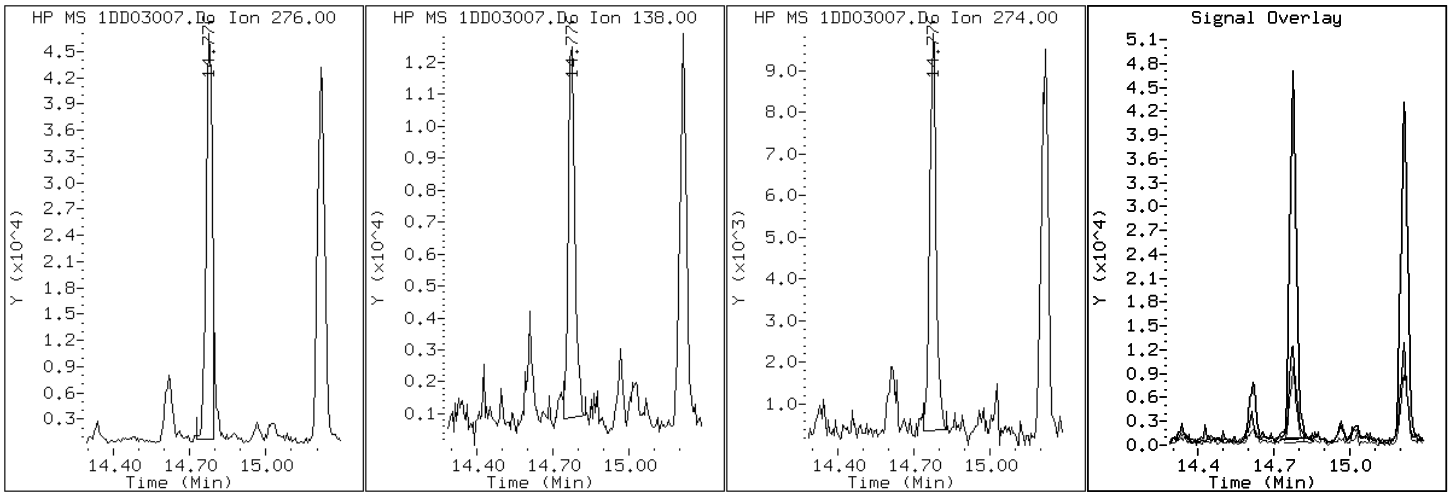
Data File: 1DD03007.D

Date: 03-APR-2013 13:30

Client ID: CV0613E-CS Instrument: BSMSD.i

Sample Info: 680-88766-A-6-G Operator: SCC

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



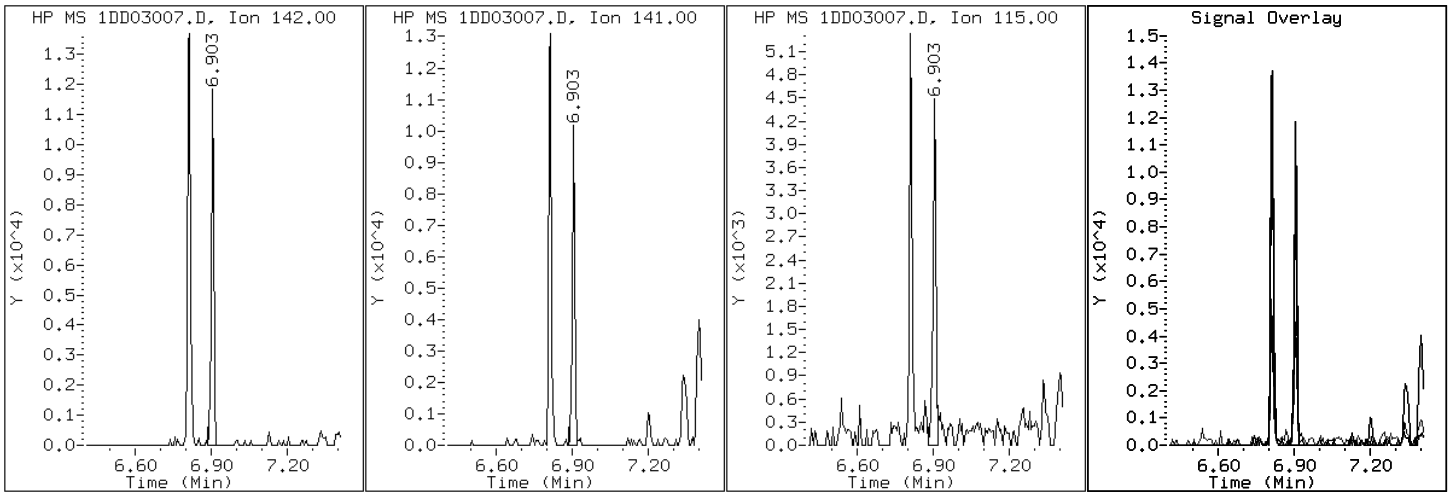
Data File: 1DD03007.D

Date: 03-APR-2013 13:30

Client ID: CV0613E-CS Instrument: BSMSD.i

Sample Info: 680-88766-A-6-G Operator: SCC

4 1-Methylnaphthalene



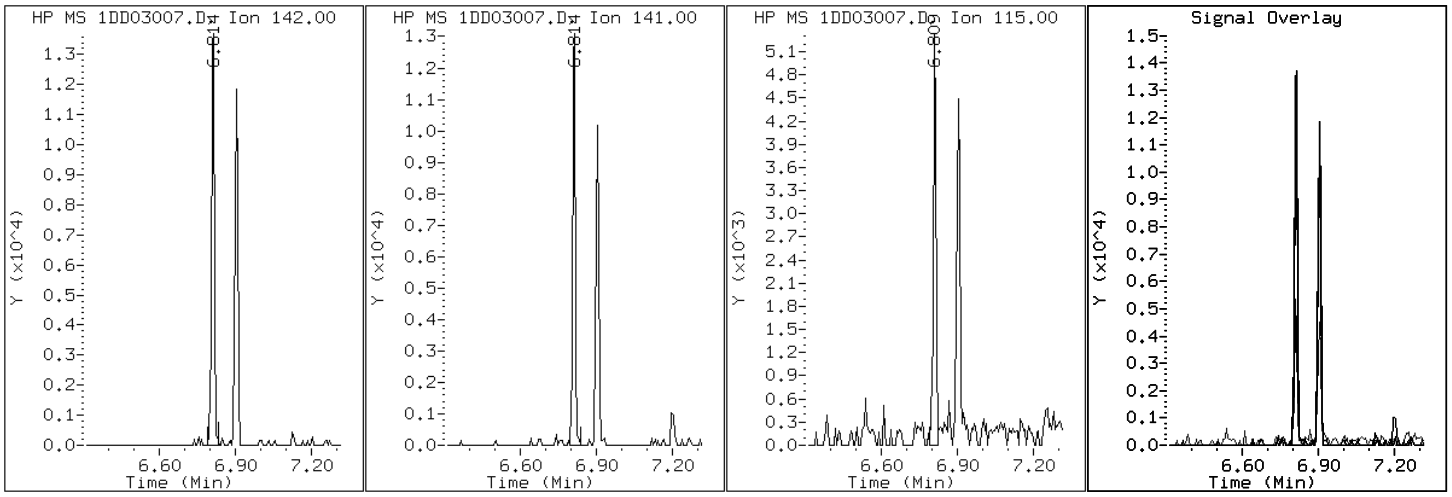
Data File: 1DD03007.D

Date: 03-APR-2013 13:30

Client ID: CV0613E-CS Instrument: BSMSD.i

Sample Info: 680-88766-A-6-G Operator: SCC

3 2-Methylnaphthalene



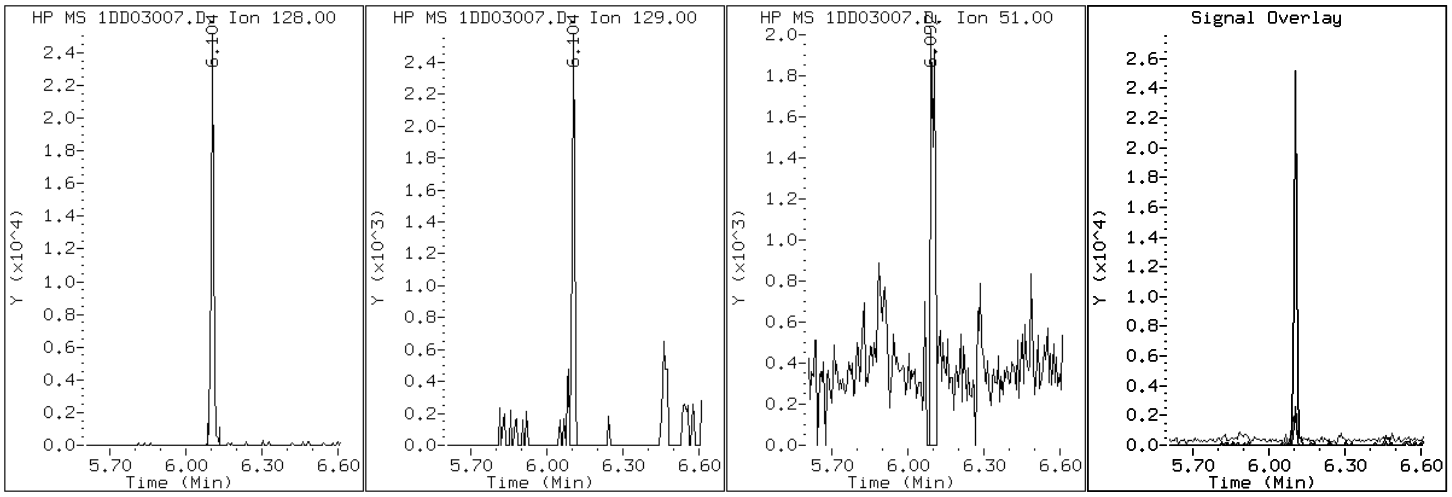
Data File: 1DD03007.D

Date: 03-APR-2013 13:30

Client ID: CV0613E-CS Instrument: BSMSD.i

Sample Info: 680-88766-A-6-G Operator: SCC

2 Naphthalene



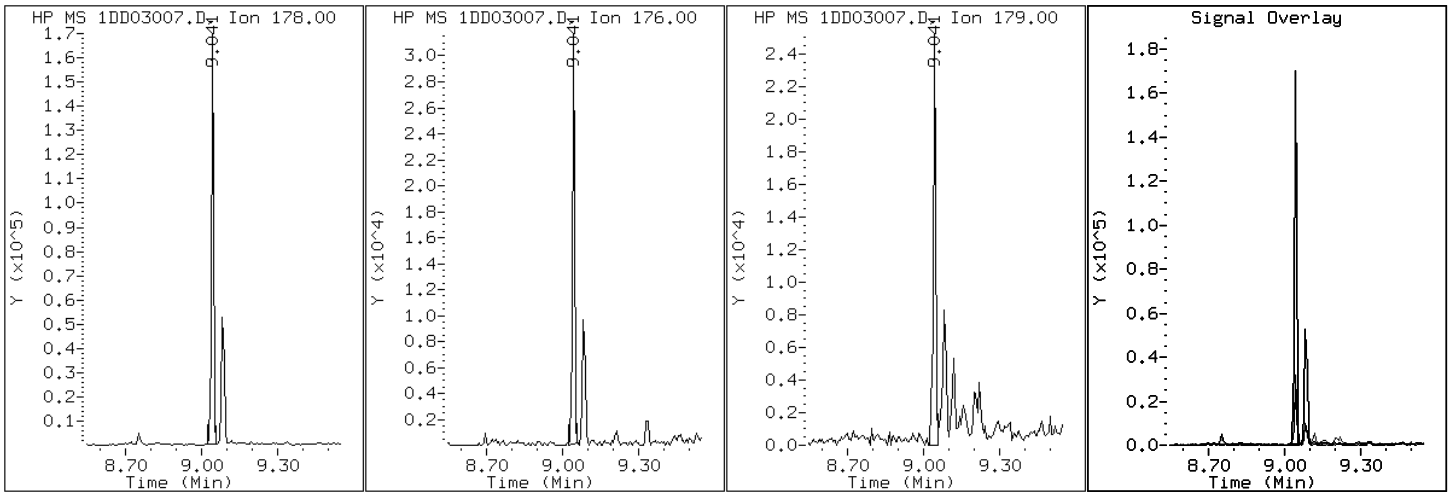
Data File: 1DD03007.D

Date: 03-APR-2013 13:30

Client ID: CV0613E-CS Instrument: BSMSD.i

Sample Info: 680-88766-A-6-G Operator: SCC

10 Phenanthrene



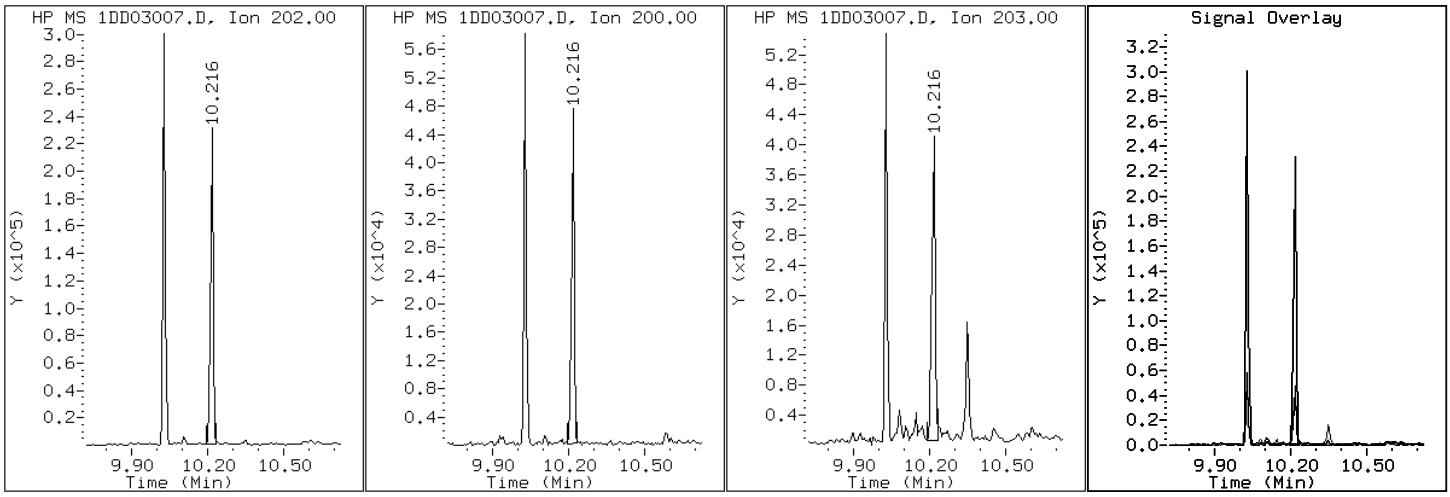
Data File: 1DD03007.D

Date: 03-APR-2013 13:30

Client ID: CV0613E-CS Instrument: BSMSD.i

Sample Info: 680-88766-A-6-G Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DD03007.D
Inj. Date and Time: 03-APR-2013 13:30
Instrument ID: BSMSD.i
Client ID: CV0613E-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/04/2013

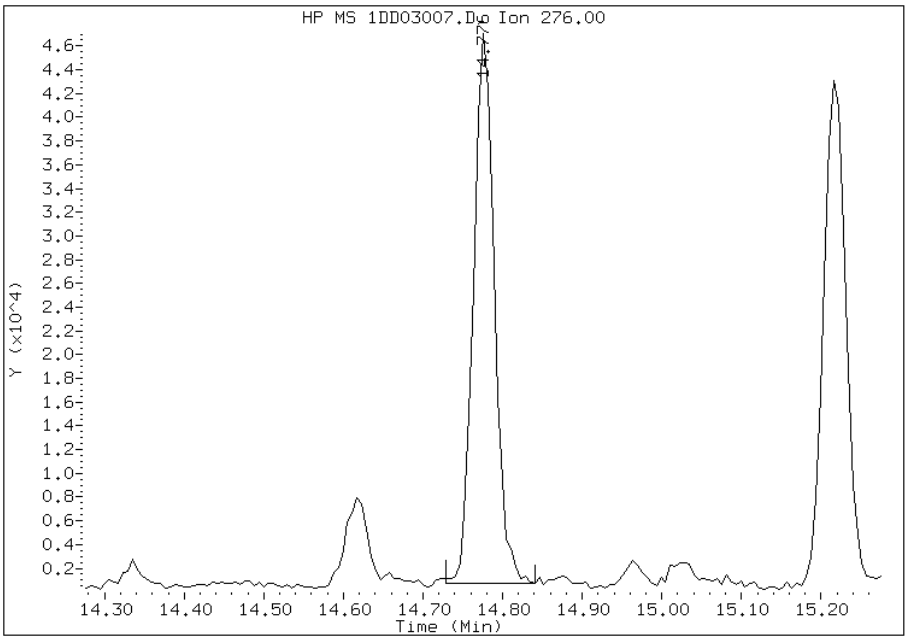
Processing Integration Results

RT: 14.78

Response: 84257

Amount: 2

Conc: 724



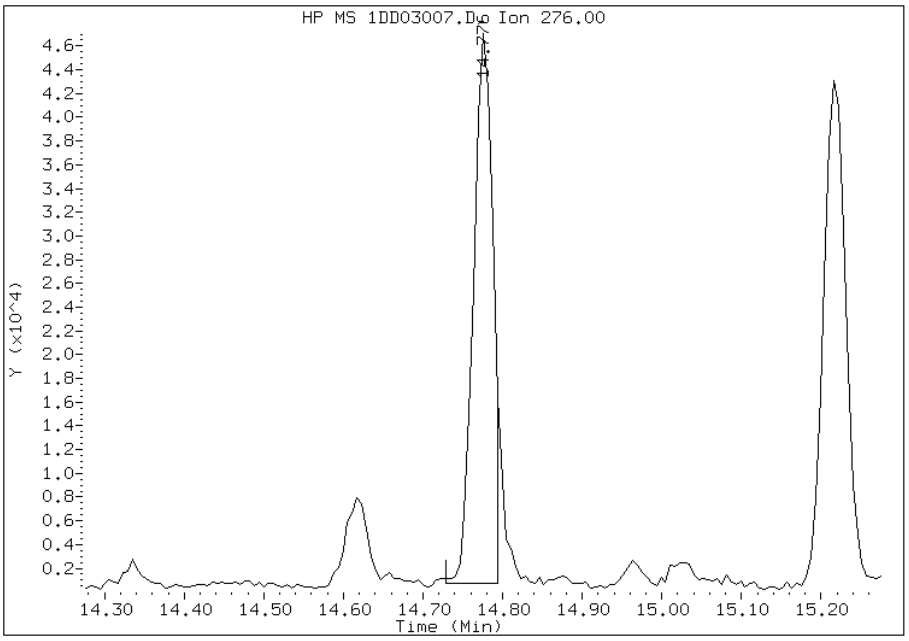
Manual Integration Results

RT: 14.78

Response: 77993

Amount: 2

Conc: 670



Manually Integrated By: cantins
Modification Date: 04-Apr-2013 11:55
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-1

SDG No.: 68088766-1

Client Sample ID: CV0613F-CS | Lab Sample ID: 680-88766-7

Matrix: Solid | Lab File ID: 1CD02037.D

Analysis Method: 8270C LL | Date Collected: 03/25/2013 13:48

Extract. Method: 3546 | Date Extracted: 03/29/2013 10:19

Sample wt/vol: 15.37(g) | Date Analyzed: 04/02/2013 23:22

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

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

% Moisture: 31.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136079 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	37	J	57	7.1
120-12-7	Anthracene	68		12	6.0
56-55-3	Benzo[a]anthracene	210		11	5.5
50-32-8	Benzo[a]pyrene	150		15	7.4
205-99-2	Benzo[b]fluoranthene	300		17	8.7
191-24-2	Benzo[g,h,i]perylene	120		28	6.2
207-08-9	Benzo[k]fluoranthene	110		11	5.1
218-01-9	Chrysene	220		13	6.4
53-70-3	Dibenz(a,h)anthracene	43		28	5.8
206-44-0	Fluoranthene	350		28	5.7
86-73-7	Fluorene	15	J	28	5.8
193-39-5	Indeno[1,2,3-cd]pyrene	120		28	10
90-12-0	1-Methylnaphthalene	63		57	6.2
91-57-6	2-Methylnaphthalene	72		57	10
91-20-3	Naphthalene	54	J	57	6.2
85-01-8	Phenanthrene	230		11	5.5
129-00-0	Pyrene	310		28	5.2

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1CD02037.D
Lab Smp Id: 680-88766-A-7-A Client Smp ID: CV0613F-CS
Inj Date : 02-APR-2013 23:22
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88766-a-7-a
Misc Info : 680-88766-A-7-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 16:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 36
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.370	Weight Extracted
M	31.206	% 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	3.710	3.710	(1.000)	676187	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	565606	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	1068419	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	67051	4.57023	432.2267
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	1167540	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	1101002	40.0000	
2 Naphthalene	128	3.727	3.721	(1.005)	9905	0.57031	53.9368
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	8979	0.75948	71.8278
4 1-Methylnaphthalene	142	4.215	4.216	(1.136)	7059	0.66357	62.7566
5 Acenaphthylene	152	4.715	4.710	(0.983)	9152	0.39096	36.9747
9 Fluorene	166	5.139	5.139	(1.071)	3149	0.16292	15.4081(Q)
11 Phenanthrene	178	5.762	5.763	(1.003)	75058	2.41210	228.1225
12 Anthracene	178	5.798	5.798	(1.009)	22715	0.72011	68.1038
13 Carbazole	167	5.904	5.904	(1.028)	13480	0.49880	47.1734

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.598	6.598	(1.148)	125469	3.65105	345.2958
16 Pyrene	202	6.762	6.762	(0.880)	105342	3.25715	308.0430
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	71016	2.23487	211.3613
19 Chrysene	228	7.703	7.704	(1.002)	75708	2.27558	215.2113
20 Benzo(b)fluoranthene	252	8.515	8.521	(0.961)	98015	3.14895	297.8098(M)
21 Benzo(k)fluoranthene	252	8.539	8.545	(0.963)	34176	1.13524	107.3644(QMH)
22 Benzo(a)pyrene	252	8.809	8.809	(0.994)	47276	1.61326	152.5729
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.015	(1.129)	34103	1.22523	115.8757(M)
25 Dibenzo(a,h)anthracene	278	10.027	10.027	(1.131)	11824	0.45986	43.4913(M)
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	36175	1.27342	120.4328(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: 1CD02037.D

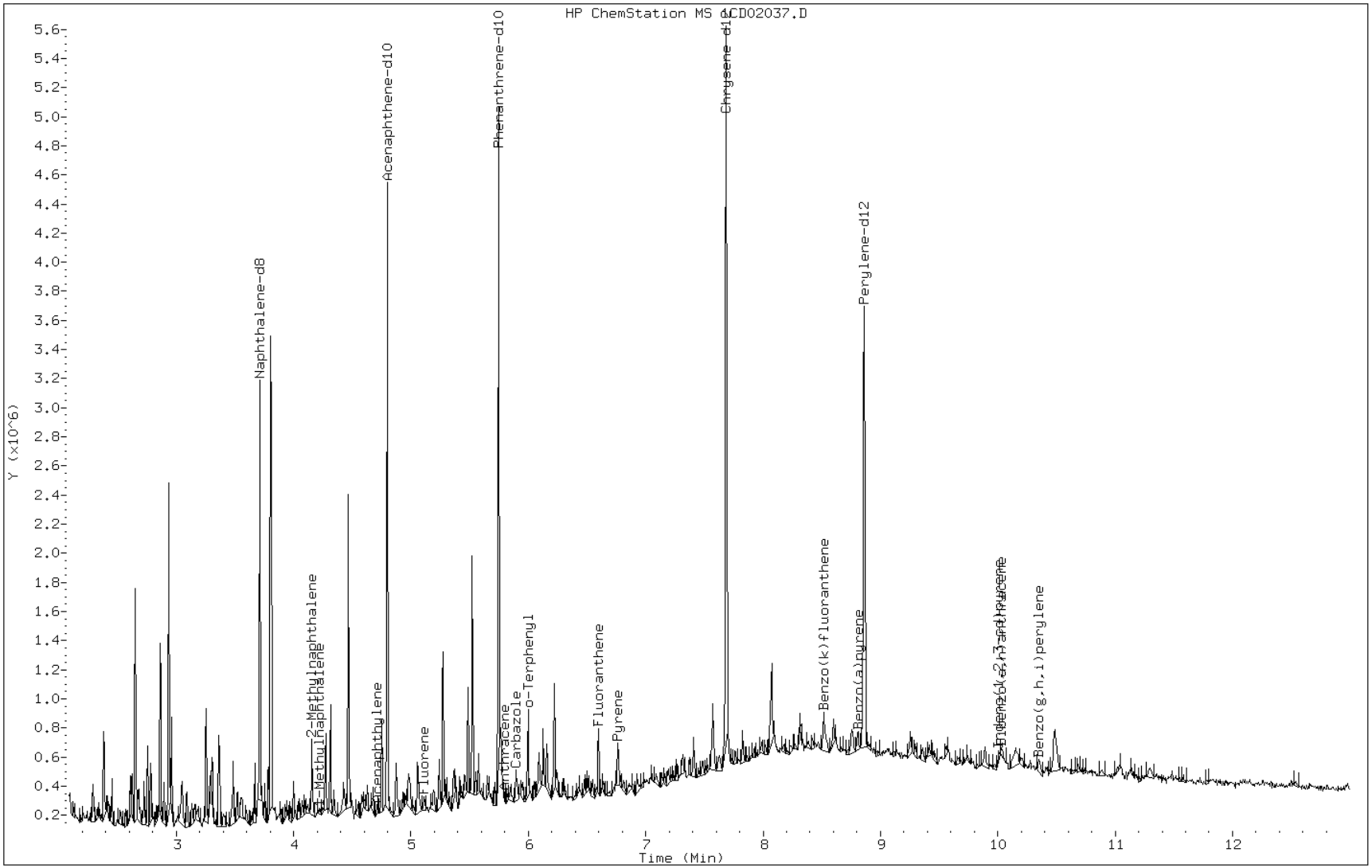
Date: 02-APR-2013 23:22

Client ID: CV0613F-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-7-a

Operator: SCC



Data File: 1CD02037.D

Date: 02-APR-2013 23:22

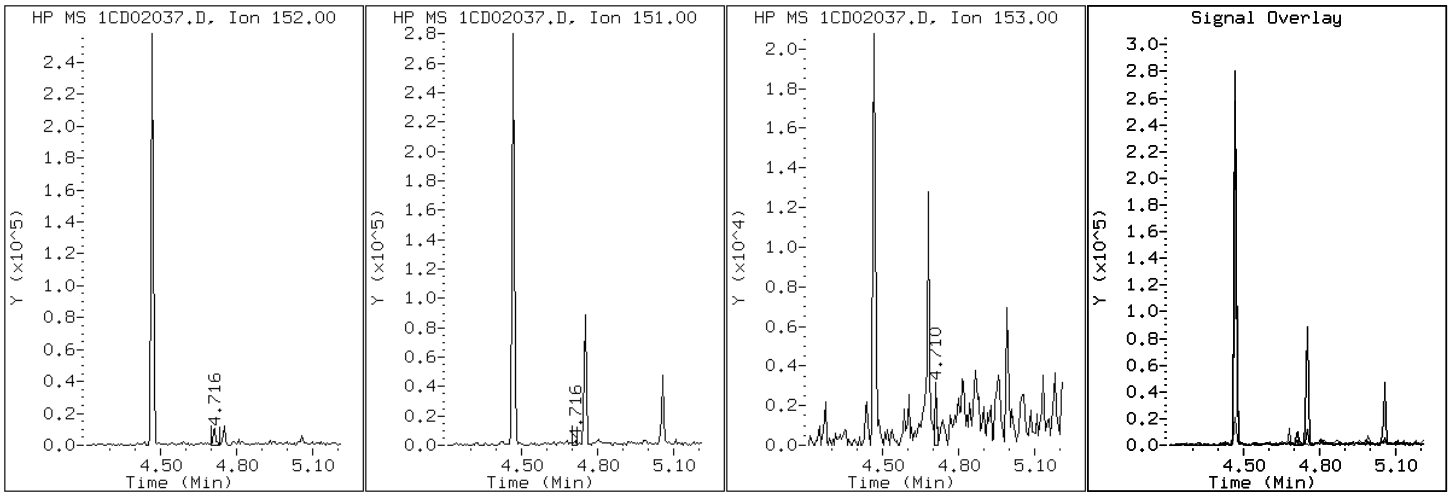
Client ID: CV0613F-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-7-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD02037.D

Date: 02-APR-2013 23:22

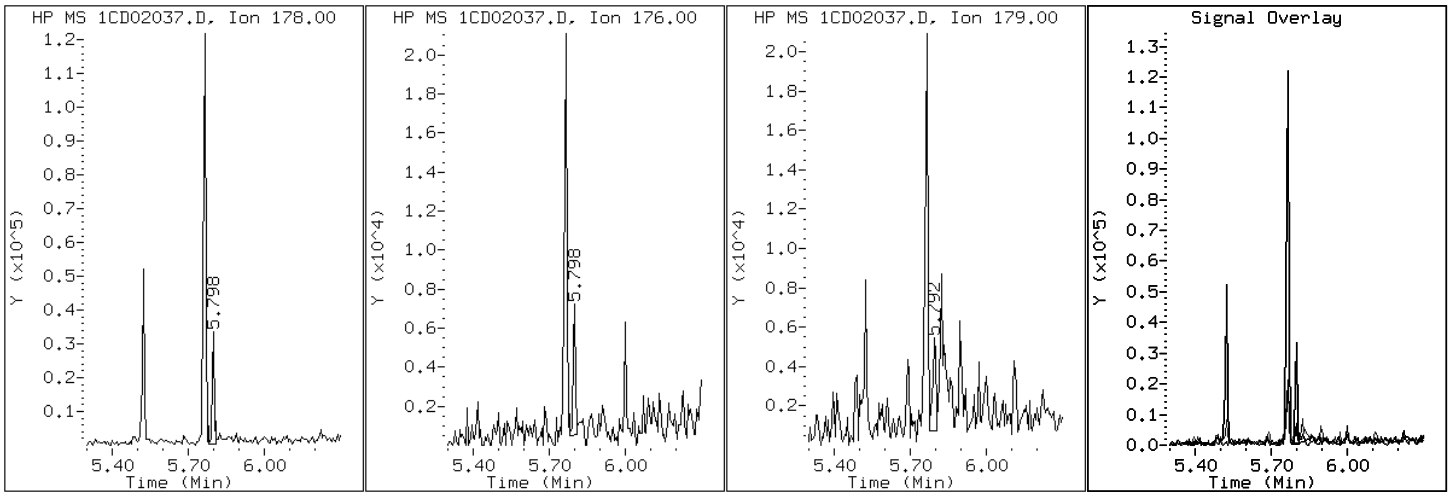
Client ID: CV0613F-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-7-a

Operator: SCC

12 Anthracene



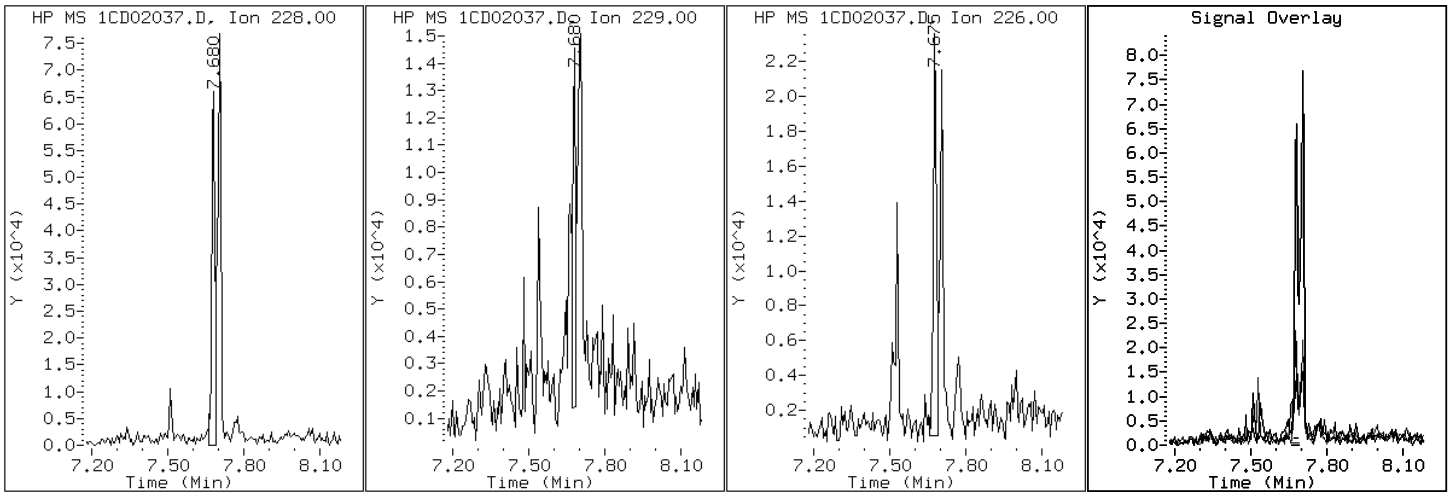
Data File: 1CD02037.D

Date: 02-APR-2013 23:22

Client ID: CV0613F-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-7-a Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD02037.D

Date: 02-APR-2013 23:22

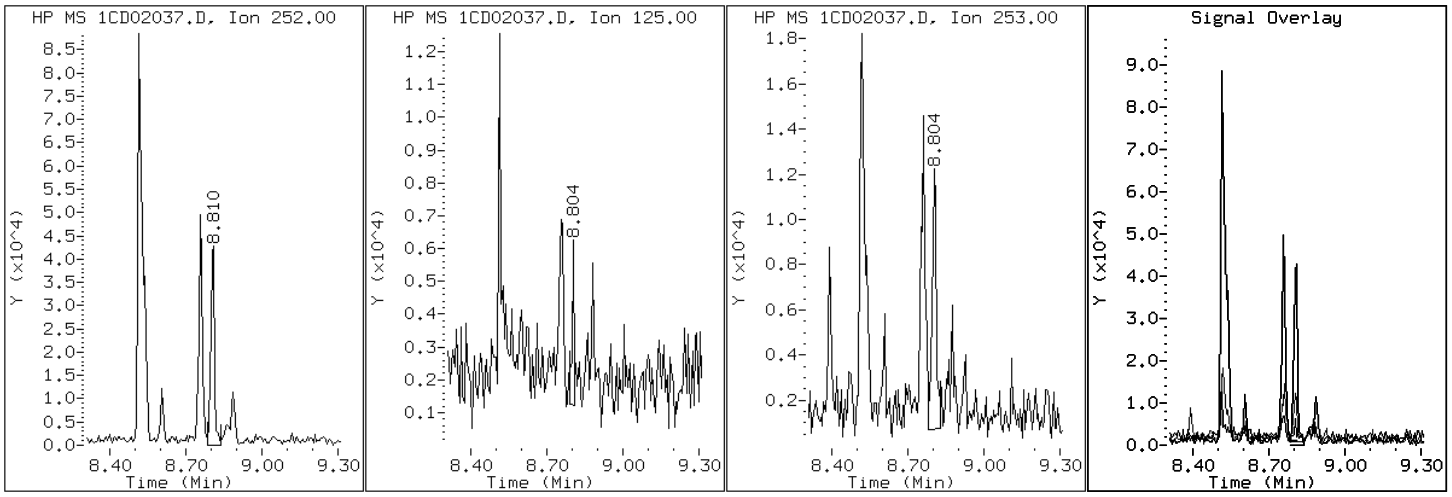
Client ID: CV0613F-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-7-a

Operator: SCC

22 Benzo(a)pyrene



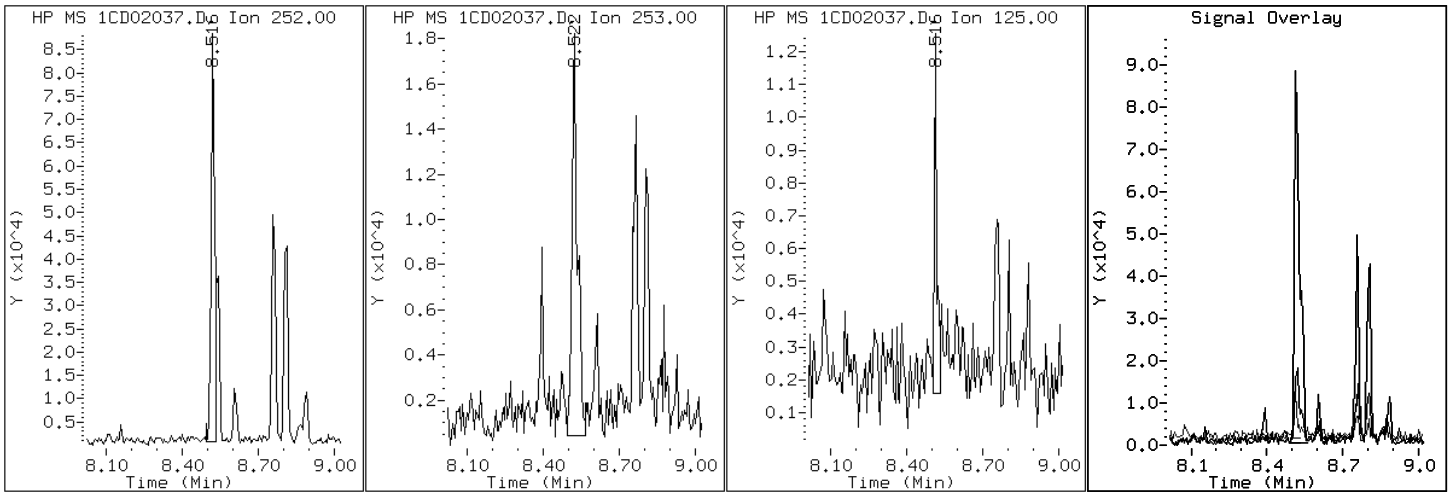
Data File: 1CD02037.D

Date: 02-APR-2013 23:22

Client ID: CV0613F-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-7-a Operator: SCC

20 Benzo(b)fluoranthene



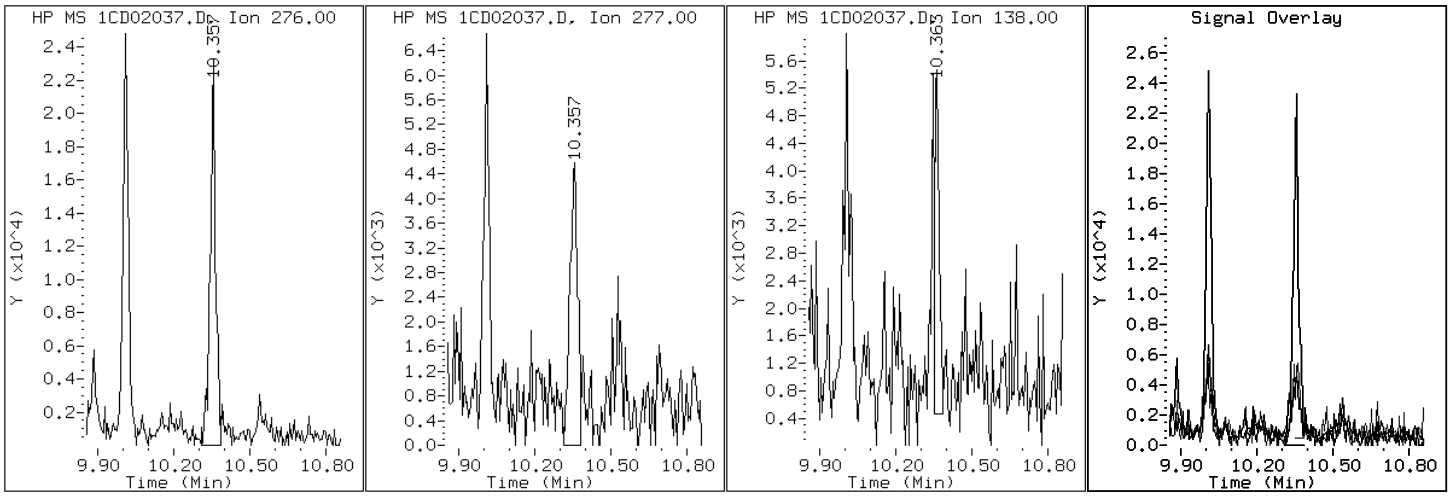
Data File: 1CD02037.D

Date: 02-APR-2013 23:22

Client ID: CV0613F-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-7-a Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD02037.D

Date: 02-APR-2013 23:22

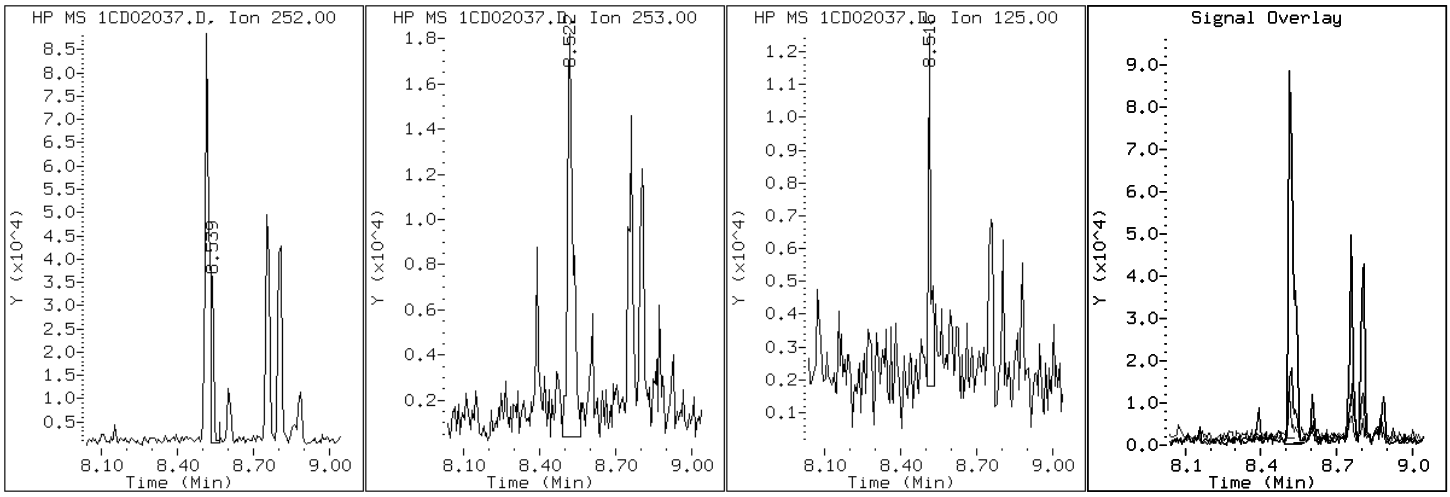
Client ID: CV0613F-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-7-a

Operator: SCC

21 Benzo(k)fluoranthene



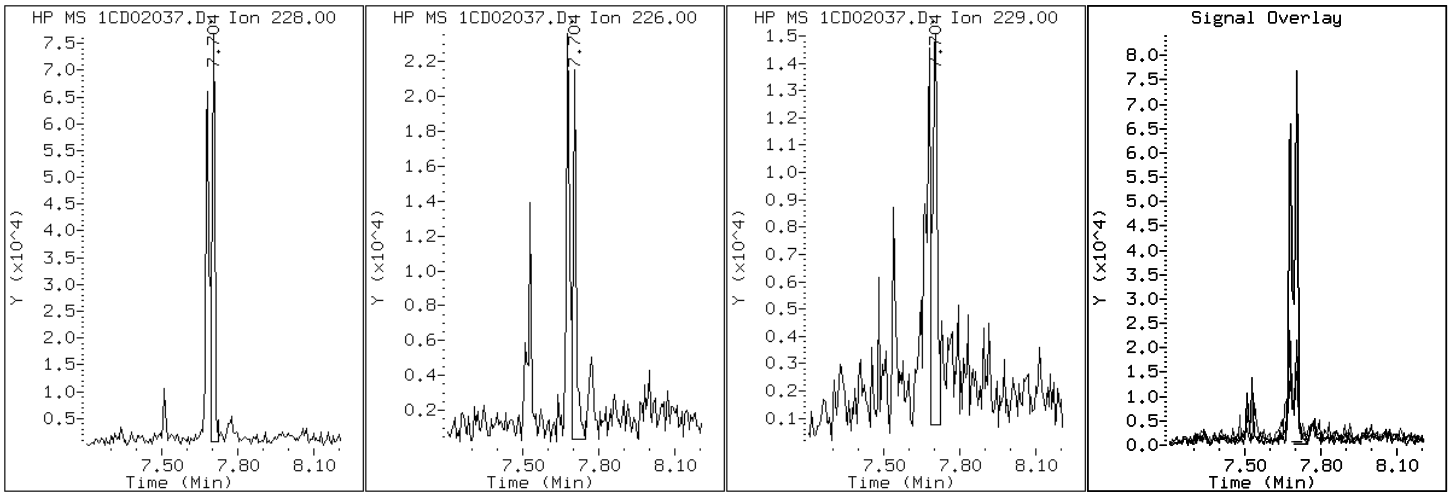
Data File: 1CD02037.D

Date: 02-APR-2013 23:22

Client ID: CV0613F-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-7-a Operator: SCC

19 Chrysene



Data File: 1CD02037.D

Date: 02-APR-2013 23:22

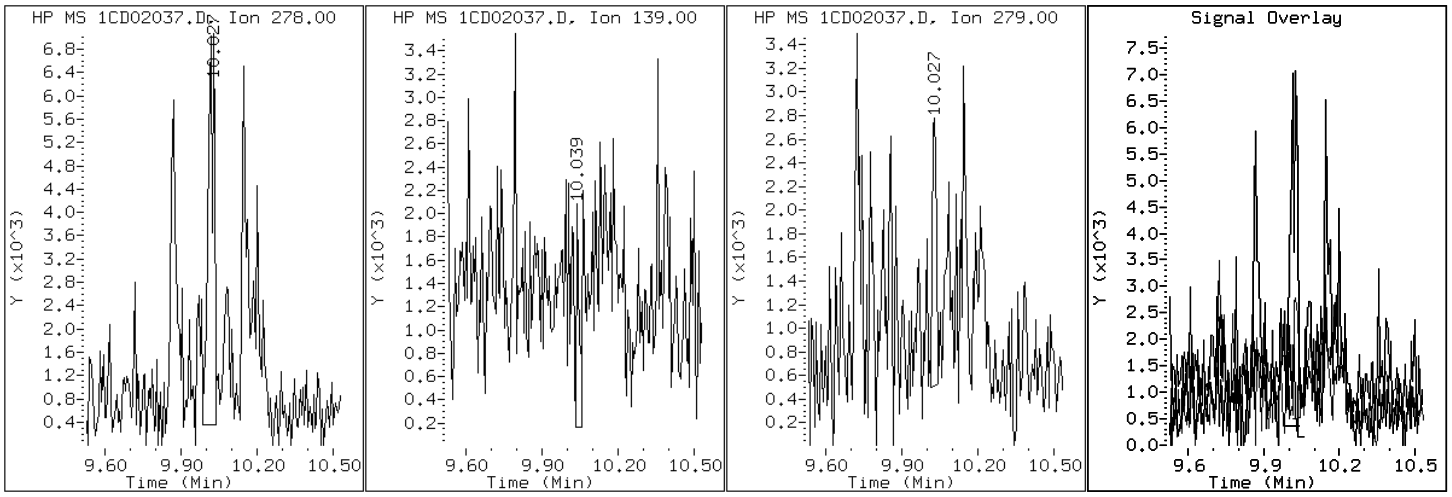
Client ID: CV0613F-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-7-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD02037.D

Date: 02-APR-2013 23:22

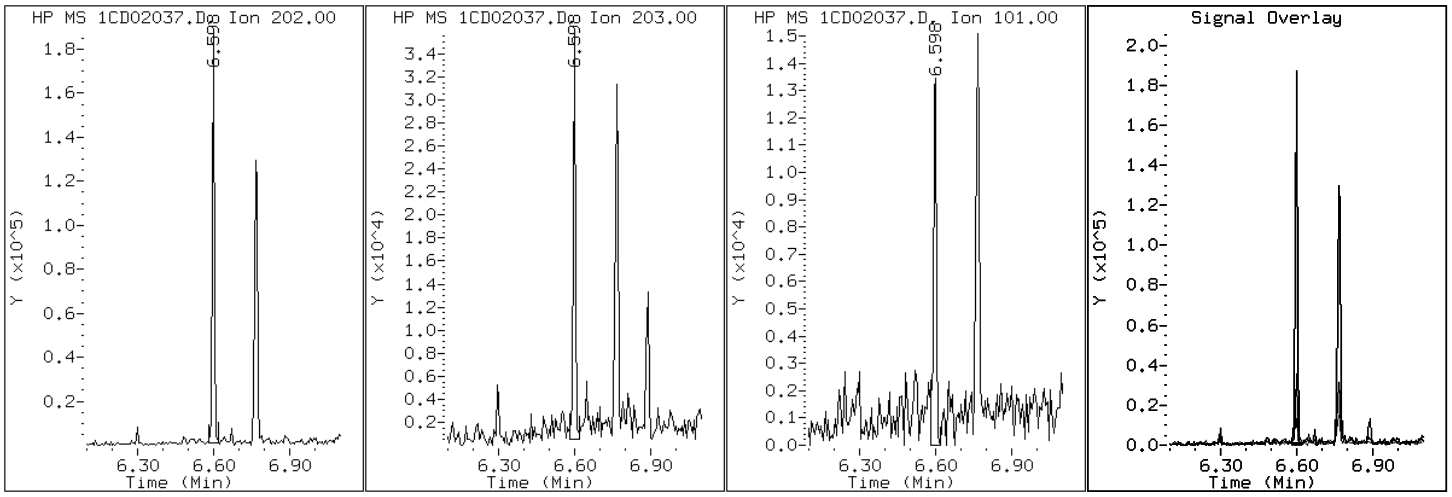
Client ID: CV0613F-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-7-a

Operator: SCC

15 Fluoranthene



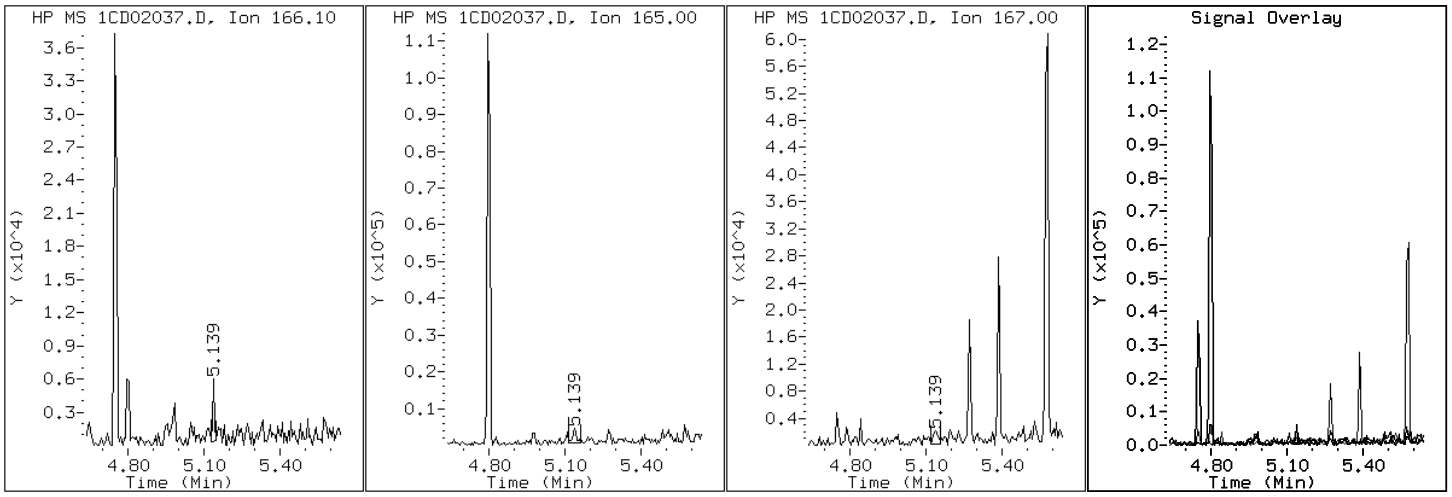
Data File: 1CD02037.D

Date: 02-APR-2013 23:22

Client ID: CV0613F-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-7-a Operator: SCC

9 Fluorene



Data File: 1CD02037.D

Date: 02-APR-2013 23:22

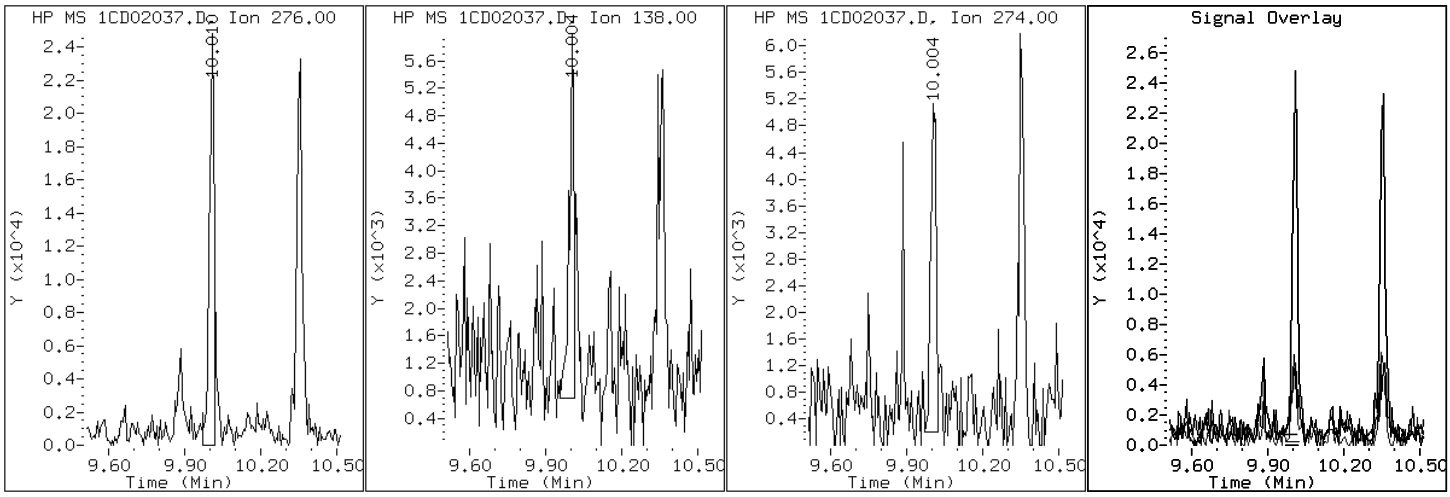
Client ID: CV0613F-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-7-a

Operator: SCC

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



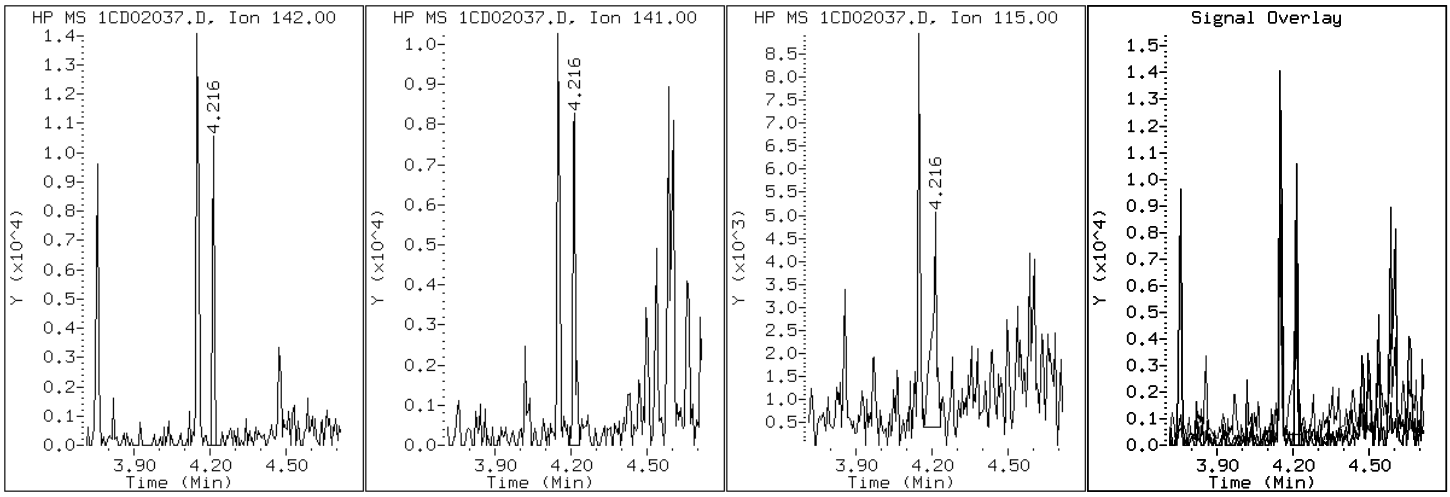
Data File: 1CD02037.D

Date: 02-APR-2013 23:22

Client ID: CV0613F-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-7-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD02037.D

Date: 02-APR-2013 23:22

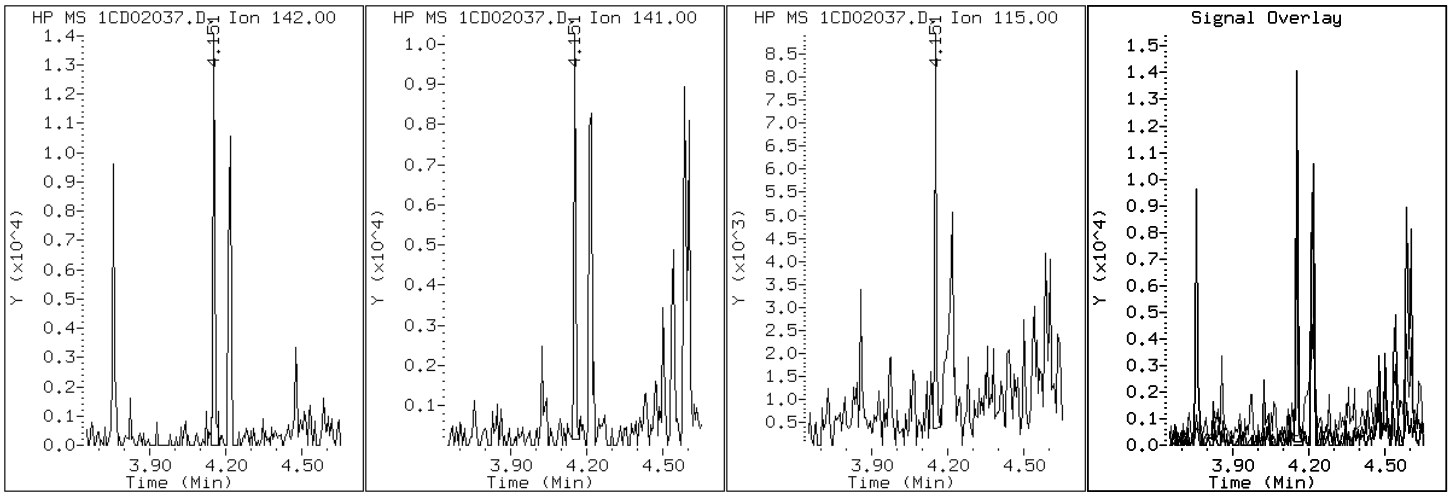
Client ID: CV0613F-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-7-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD02037.D

Date: 02-APR-2013 23:22

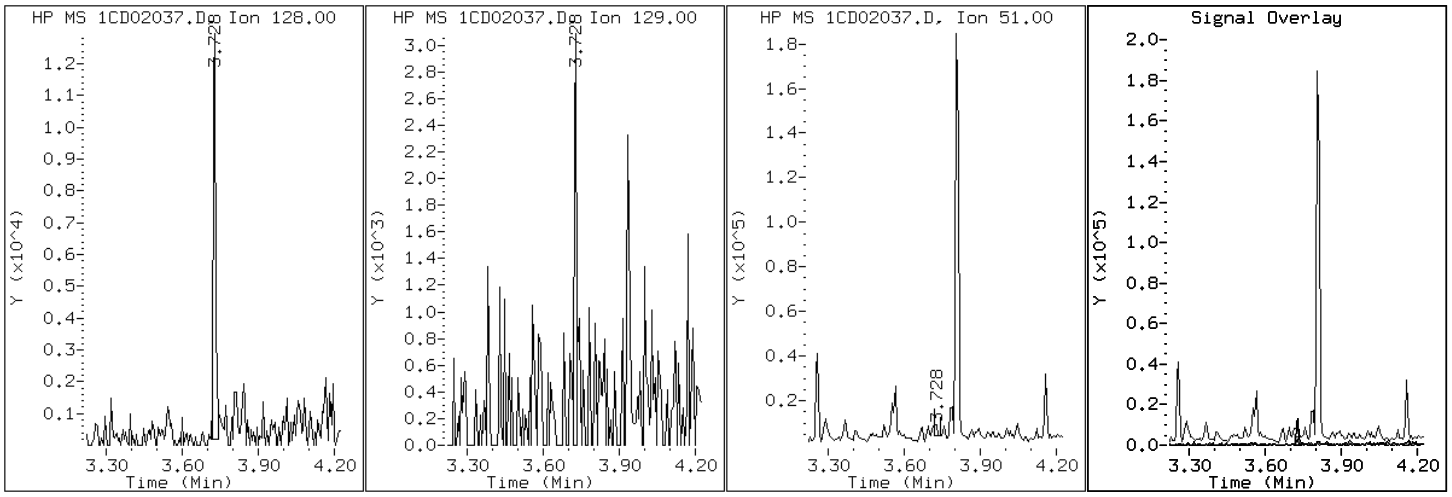
Client ID: CV0613F-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-7-a

Operator: SCC

2 Naphthalene



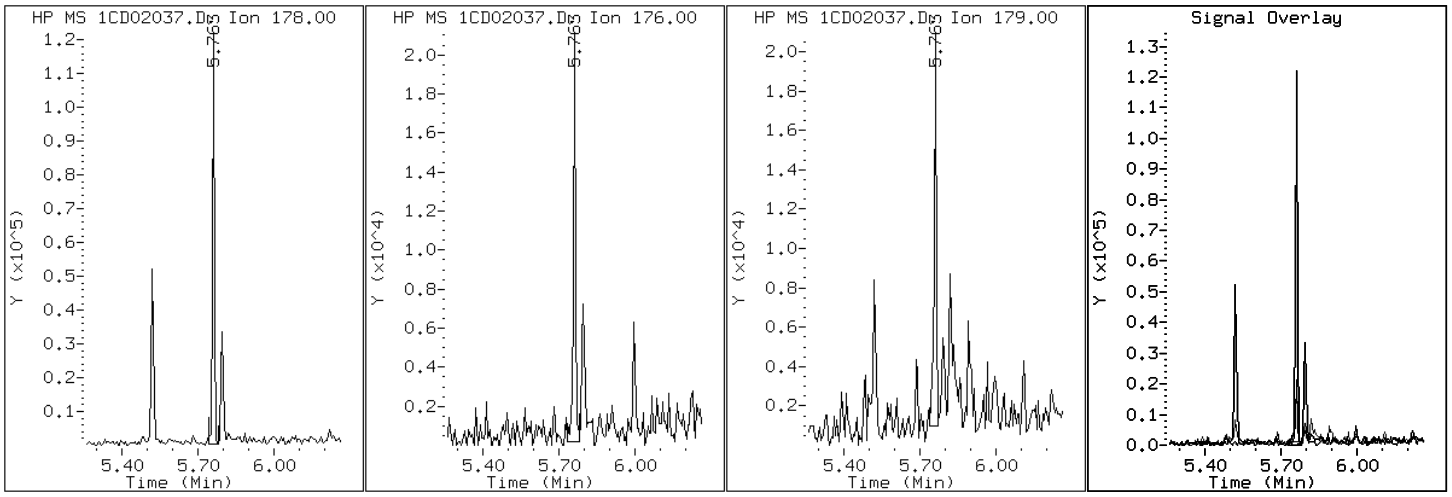
Data File: 1CD02037.D

Date: 02-APR-2013 23:22

Client ID: CV0613F-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-7-a Operator: SCC

11 Phenanthrene



Data File: 1CD02037.D

Date: 02-APR-2013 23:22

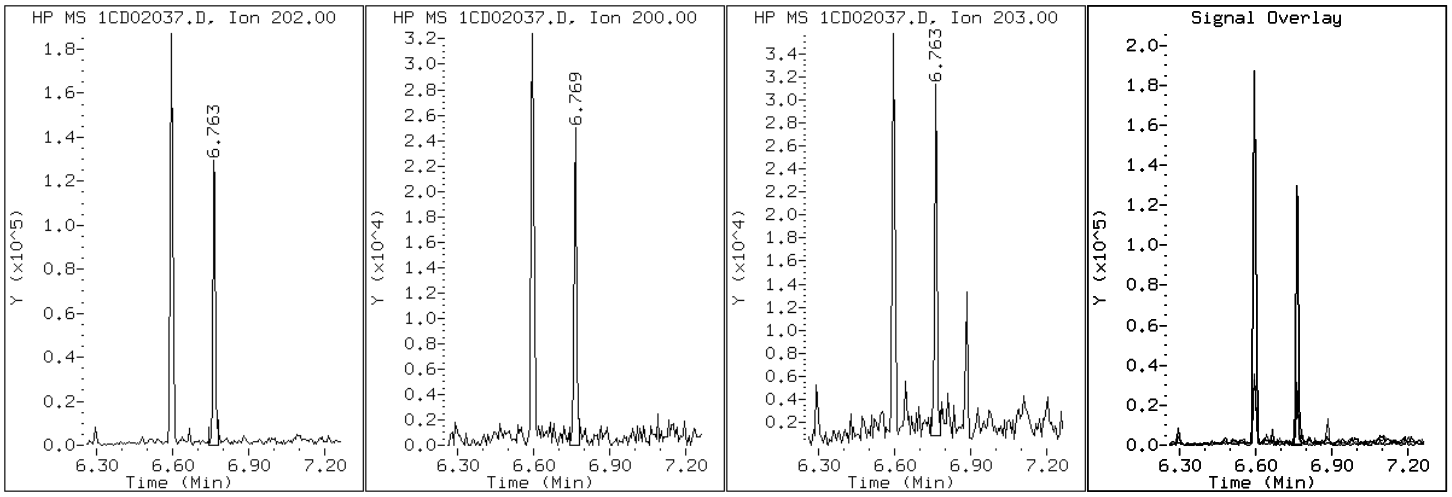
Client ID: CV0613F-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-7-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD02037.D
Inj. Date and Time: 02-APR-2013 23:22
Instrument ID: BSMC5973.i
Client ID: CV0613F-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

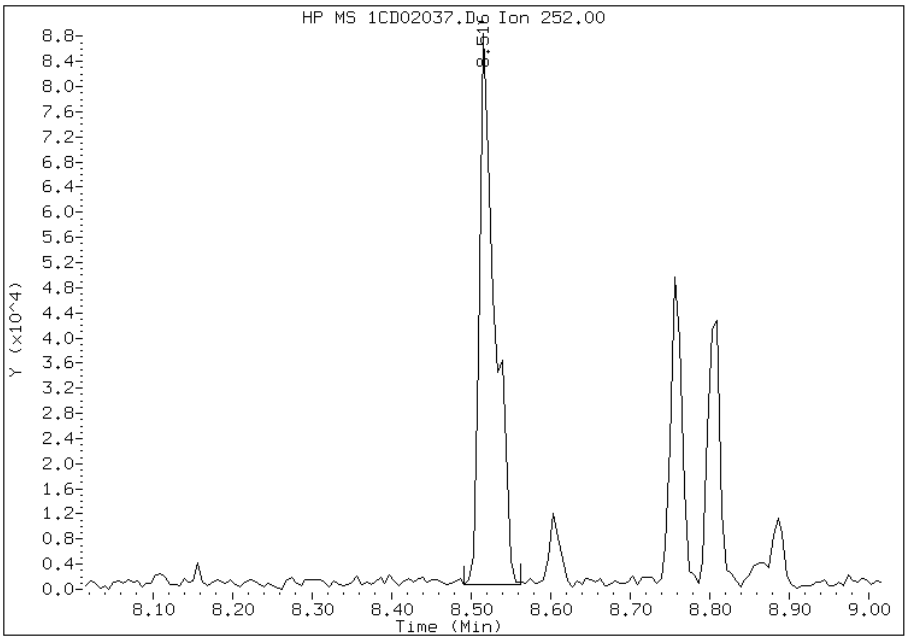
Processing Integration Results

RT: 8.52

Response: 119956

Amount: 4

Conc: 364



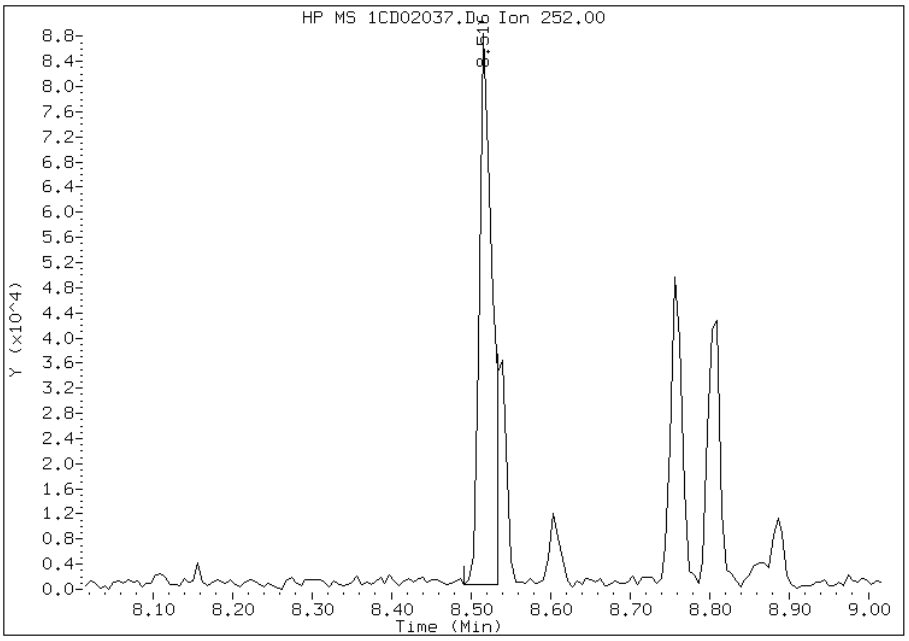
Manual Integration Results

RT: 8.52

Response: 98015

Amount: 3

Conc: 298



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:09
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD02037.D
Inj. Date and Time: 02-APR-2013 23:22
Instrument ID: BSMC5973.i
Client ID: CV0613F-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/03/2013

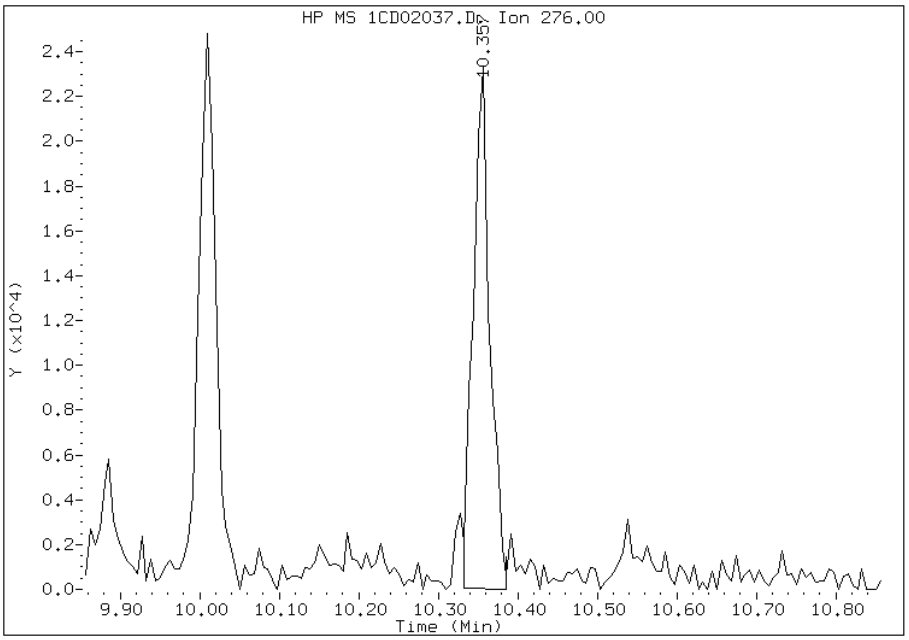
Processing Integration Results

RT: 10.36

Response: 33912

Amount: 1

Conc: 113



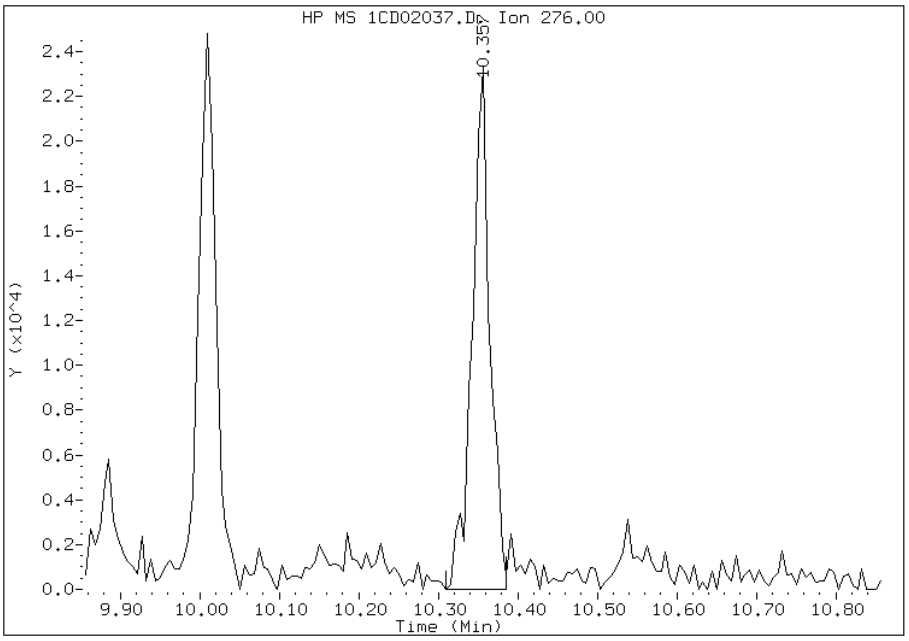
Manual Integration Results

RT: 10.36

Response: 36175

Amount: 1

Conc: 120



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:07
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD02037.D
Inj. Date and Time: 02-APR-2013 23:22
Instrument ID: BSMC5973.i
Client ID: CV0613F-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

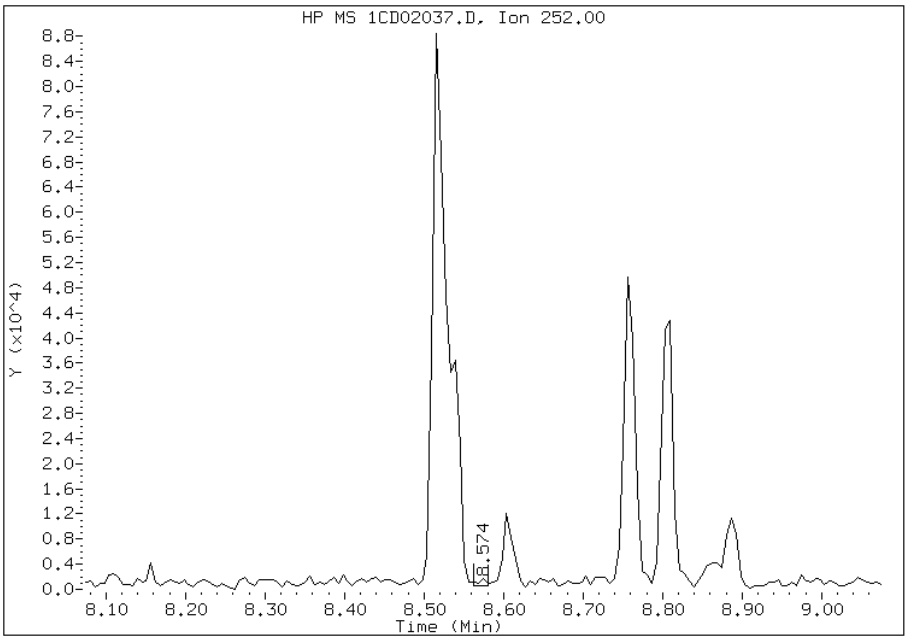
Processing Integration Results

RT: 8.57

Response: 825

Amount: 0

Conc: 3



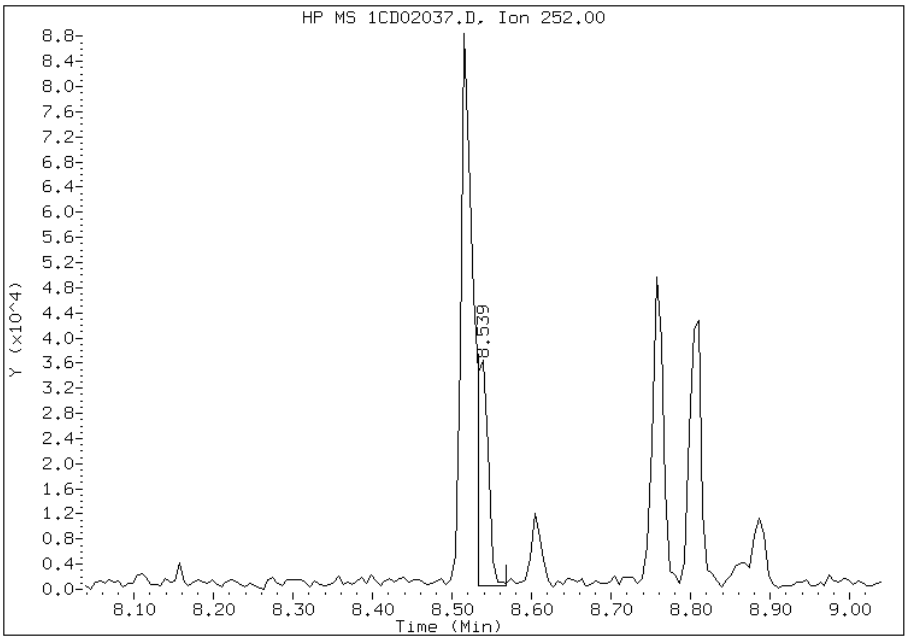
Manual Integration Results

RT: 8.54

Response: 34176

Amount: 1

Conc: 107



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:08
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD02037.D
Inj. Date and Time: 02-APR-2013 23:22
Instrument ID: BSMC5973.i
Client ID: CV0613F-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/03/2013

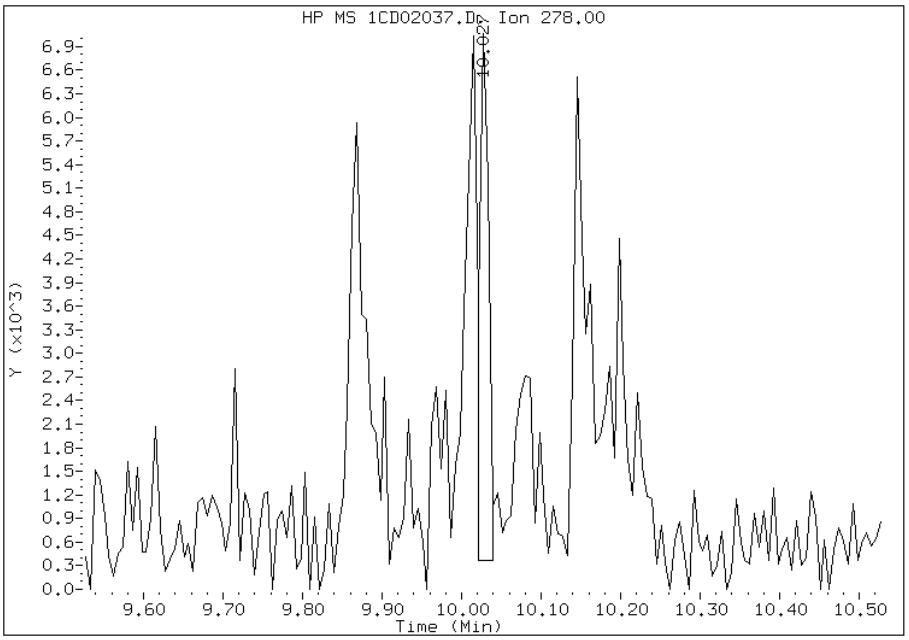
Processing Integration Results

RT: 10.03

Response: 5471

Amount: 0

Conc: 20



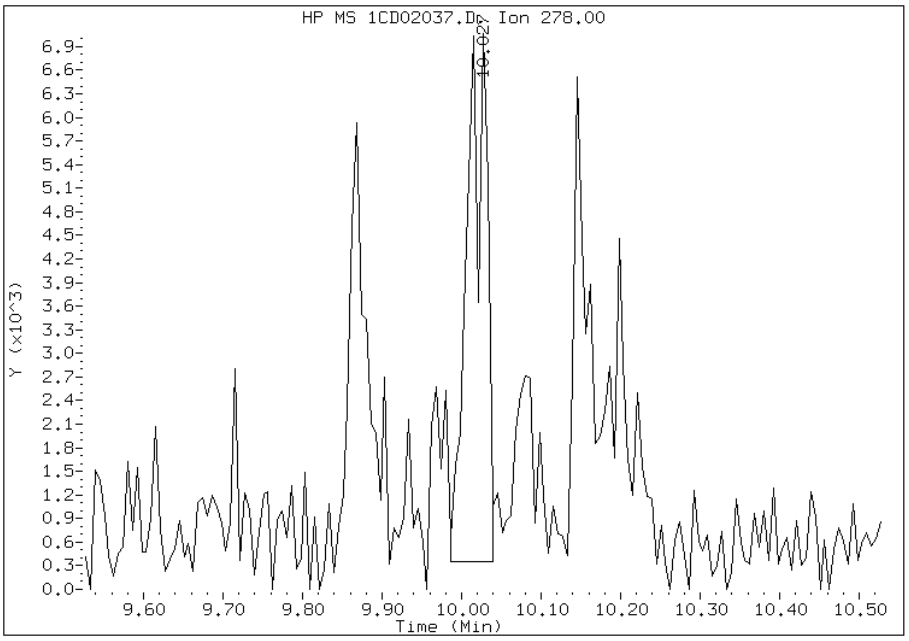
Manual Integration Results

RT: 10.03

Response: 11824

Amount: 0

Conc: 43



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:08
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD02037.D
Inj. Date and Time: 02-APR-2013 23:22
Instrument ID: BSMC5973.i
Client ID: CV0613F-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

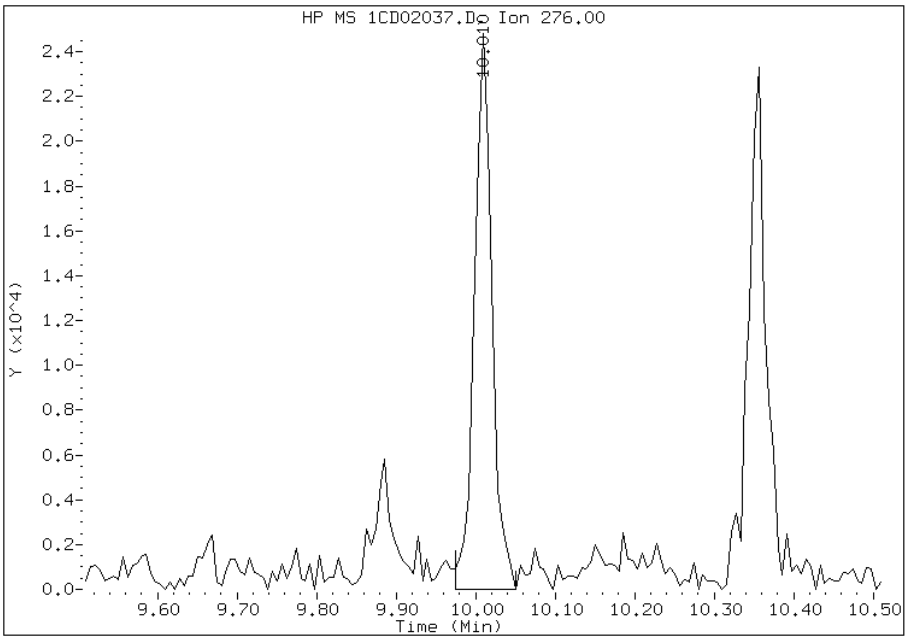
Processing Integration Results

RT: 10.01

Response: 37728

Amount: 1

Conc: 128



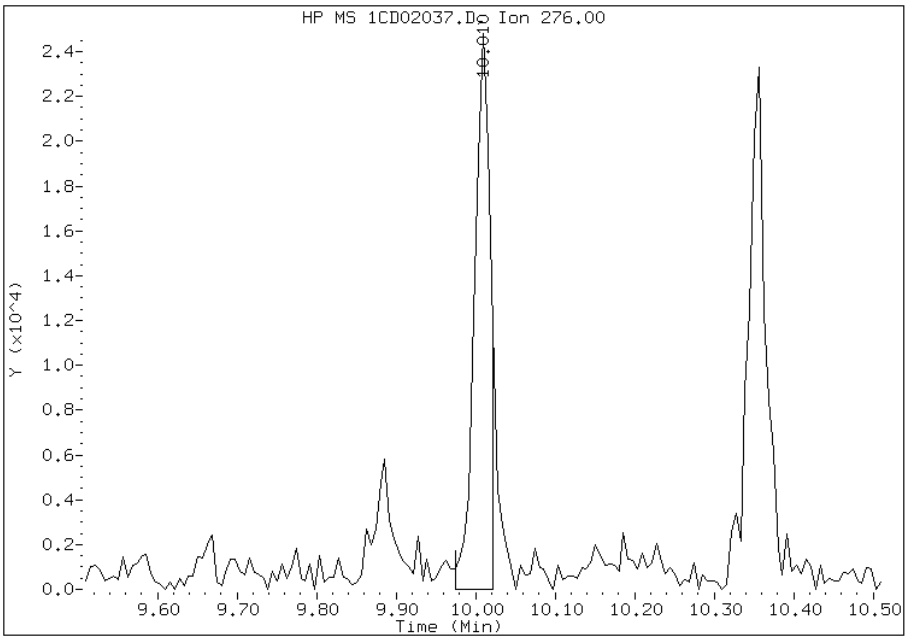
Manual Integration Results

RT: 10.01

Response: 34103

Amount: 1

Conc: 116



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:08
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-1

SDG No.: 68088766-1

Client Sample ID: CV0613G-CS | Lab Sample ID: 680-88766-8

Matrix: Solid | Lab File ID: 1CD02038.D

Analysis Method: 8270C LL | Date Collected: 03/25/2013 14:00

Extract. Method: 3546 | Date Extracted: 03/29/2013 10:19

Sample wt/vol: 15.18(g) | Date Analyzed: 04/02/2013 23:41

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

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

% Moisture: 27.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136079 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	27
208-96-8	Acenaphthylene	67		54	6.8
120-12-7	Anthracene	120		11	5.7
56-55-3	Benzo[a]anthracene	310		11	5.3
50-32-8	Benzo[a]pyrene	280		14	7.0
205-99-2	Benzo[b]fluoranthene	570		17	8.3
191-24-2	Benzo[g,h,i]perylene	220		27	6.0
207-08-9	Benzo[k]fluoranthene	230		11	4.9
218-01-9	Chrysene	350		12	6.1
53-70-3	Dibenz(a,h)anthracene	79		27	5.6
206-44-0	Fluoranthene	410		27	5.4
86-73-7	Fluorene	19	J	27	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	200		27	9.6
90-12-0	1-Methylnaphthalene	64		54	6.0
91-57-6	2-Methylnaphthalene	84		54	9.6
91-20-3	Naphthalene	88		54	6.0
85-01-8	Phenanthrene	220		11	5.3
129-00-0	Pyrene	410		27	5.0

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1CD02038.D
Lab Smp Id: 680-88766-A-8-A Client Smp ID: CV0613G-CS
Inj Date : 02-APR-2013 23:41
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88766-a-8-a
Misc Info : 680-88766-A-8-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 16:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 37
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	15.180	Weight Extracted
M	27.015	% 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	3.710	3.710	(1.000)	678709	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	576647	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	1090475	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	74551	4.91383	443.5233
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	1177327	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	1088533	40.0000	
2 Naphthalene	128	3.727	3.721	(1.005)	17076	0.97955	88.4143
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	11022	0.92883	83.8360
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	7563	0.70830	63.9316
5 Acenaphthylene	152	4.716	4.710	(0.983)	17610	0.73787	66.6002
9 Fluorene	166	5.139	5.139	(1.071)	4177	0.21197	19.1324(Q)
11 Phenanthrene	178	5.763	5.763	(1.003)	76459	2.40742	217.2943
12 Anthracene	178	5.798	5.798	(1.009)	44318	1.37655	124.2474
13 Carbazole	167	5.904	5.904	(1.028)	15672	0.56818	51.2838

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.598	6.598	(1.148)	158981	4.53265	409.1180
16 Pyrene	202	6.763	6.762	(0.880)	148852	4.56421	411.9664
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	110713	3.38111	305.1795
19 Chrysene	228	7.704	7.704	(1.002)	129939	3.87315	349.5910
20 Benzo(b)fluoranthene	252	8.521	8.521	(0.962)	195561	6.35480	573.5852(M)
21 Benzo(k)fluoranthene	252	8.533	8.545	(0.963)	75050	2.52152	227.5930(MH)
22 Benzo(a)pyrene	252	8.804	8.809	(0.993)	88643	3.05953	276.1534
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.015	(1.129)	60748	2.20752	199.2512(M)
25 Dibenzo(a,h)anthracene	278	10.015	10.027	(1.130)	22181	0.87256	78.7570
26 Benzo(g,h,i)perylene	276	10.351	10.356	(1.168)	68751	2.44787	220.9451

QC Flag Legend

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

Data File: 1CD02038.D

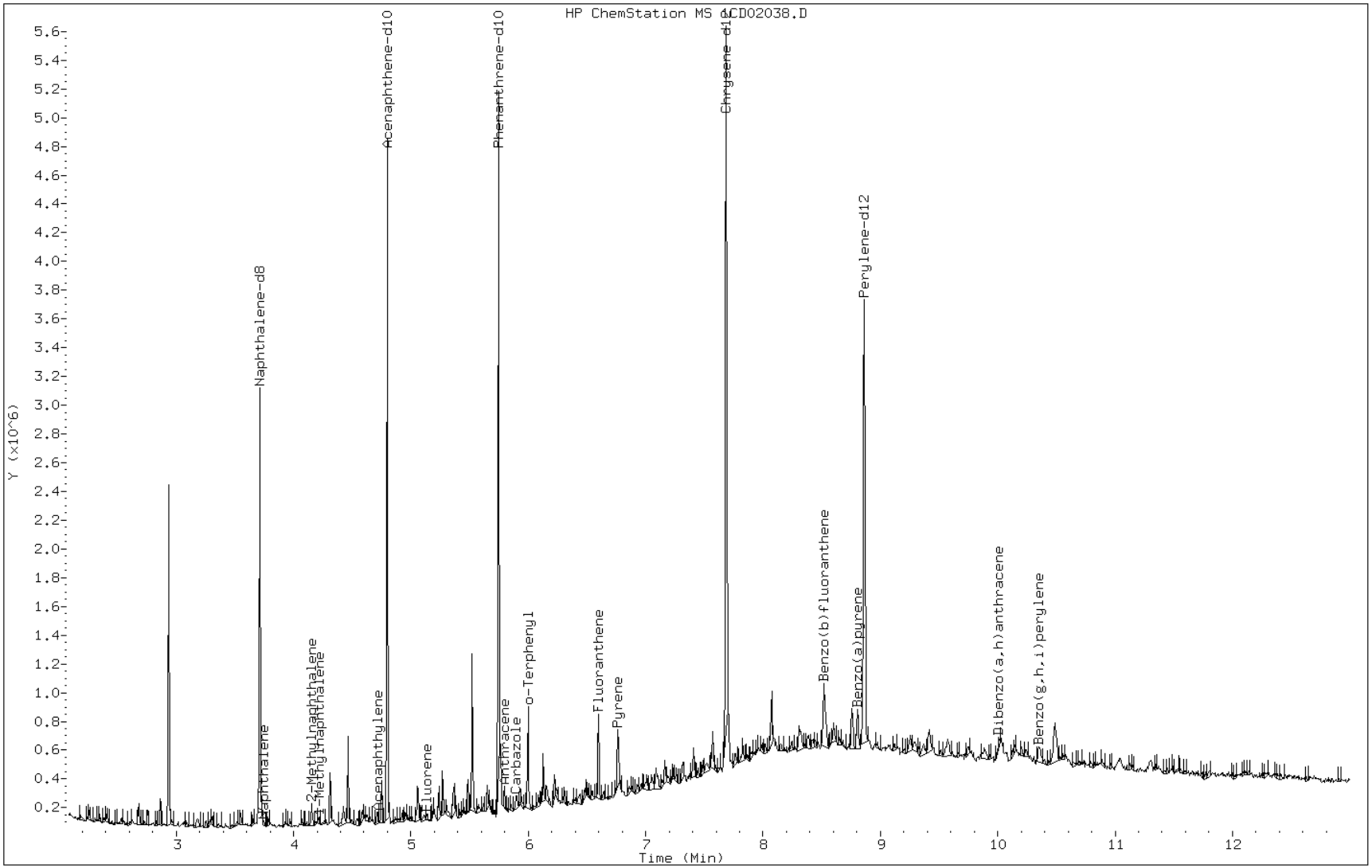
Date: 02-APR-2013 23:41

Client ID: CV0613G-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-8-a

Operator: SCC



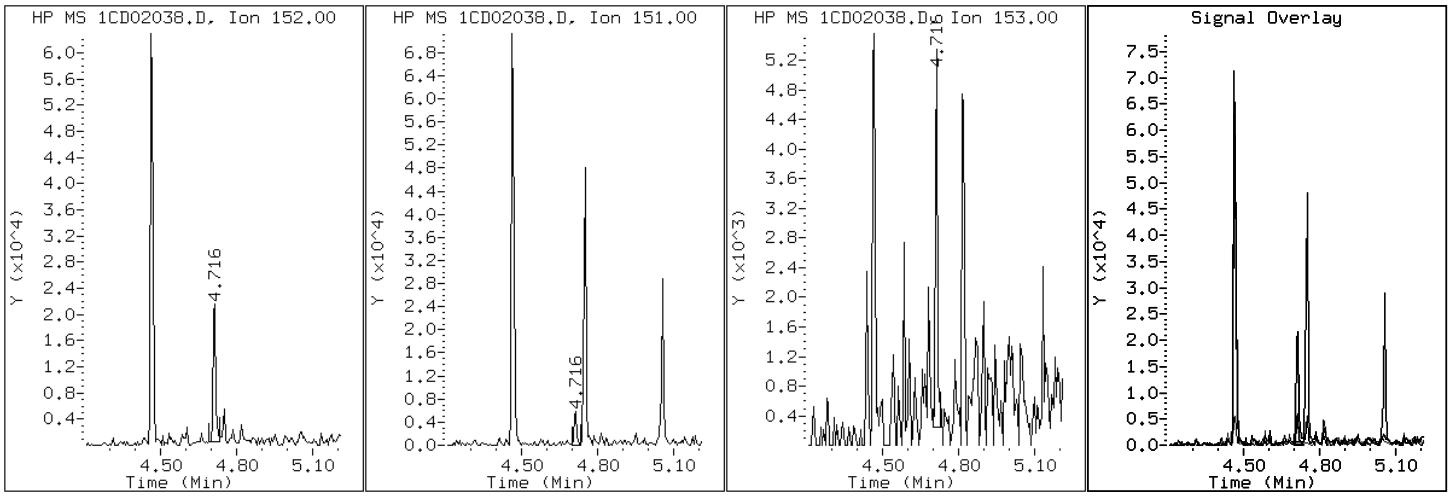
Data File: 1CD02038.D

Date: 02-APR-2013 23:41

Client ID: CV0613G-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-8-a Operator: SCC

5 Acenaphthylene



Data File: 1CD02038.D

Date: 02-APR-2013 23:41

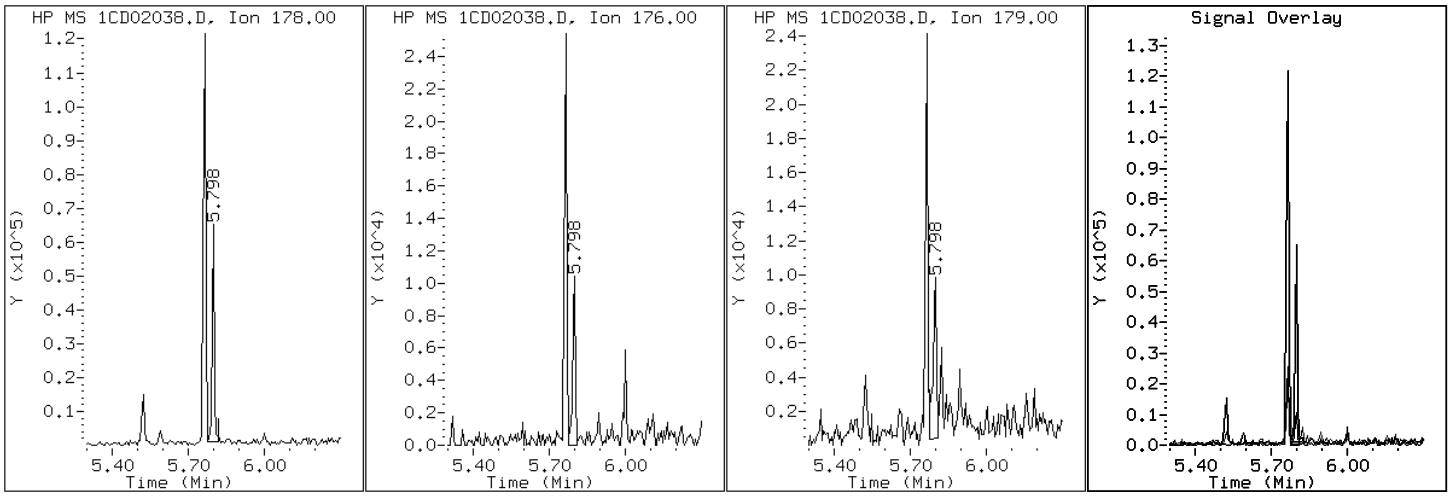
Client ID: CV0613G-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-8-a

Operator: SCC

12 Anthracene



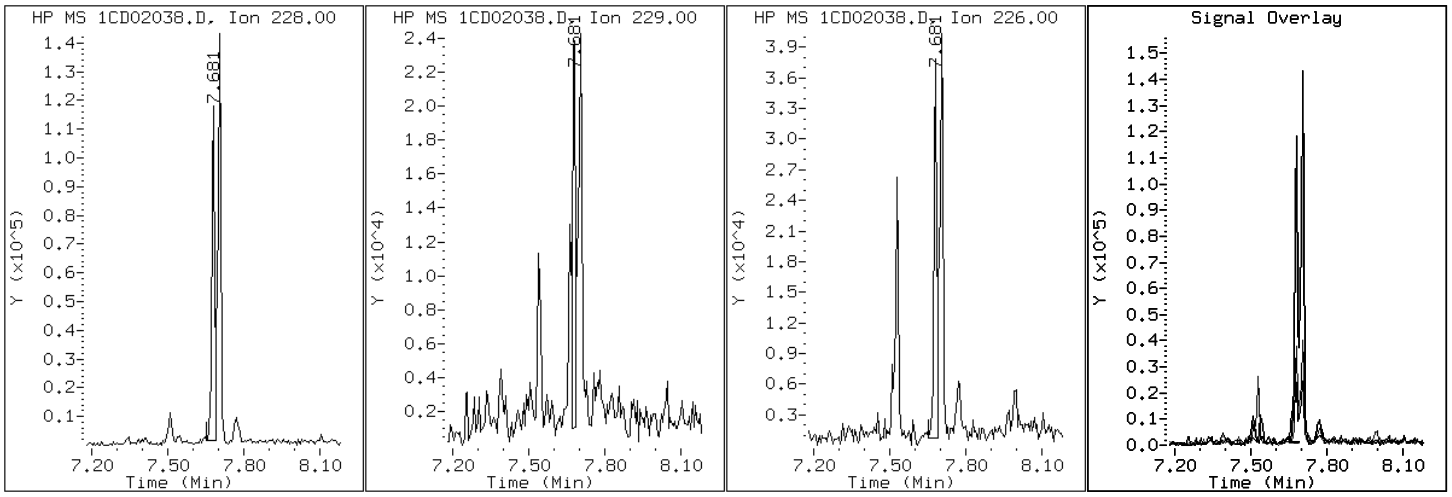
Data File: 1CD02038.D

Date: 02-APR-2013 23:41

Client ID: CV0613G-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-8-a Operator: SCC

17 Benzo(a)anthracene



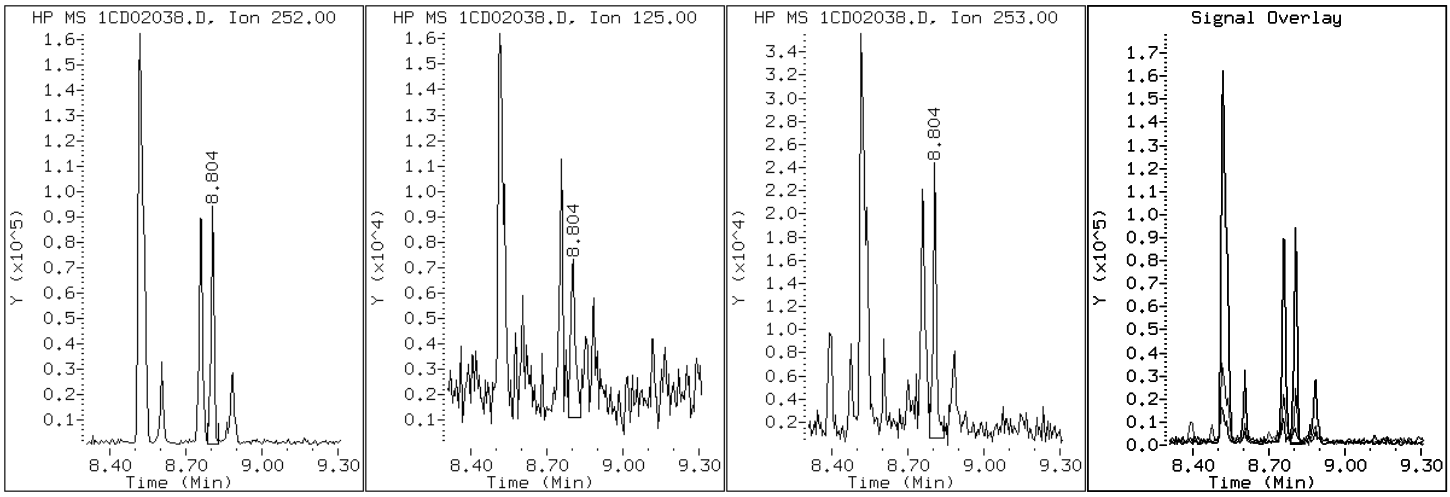
Data File: 1CD02038.D

Date: 02-APR-2013 23:41

Client ID: CV0613G-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-8-a Operator: SCC

22 Benzo(a)pyrene



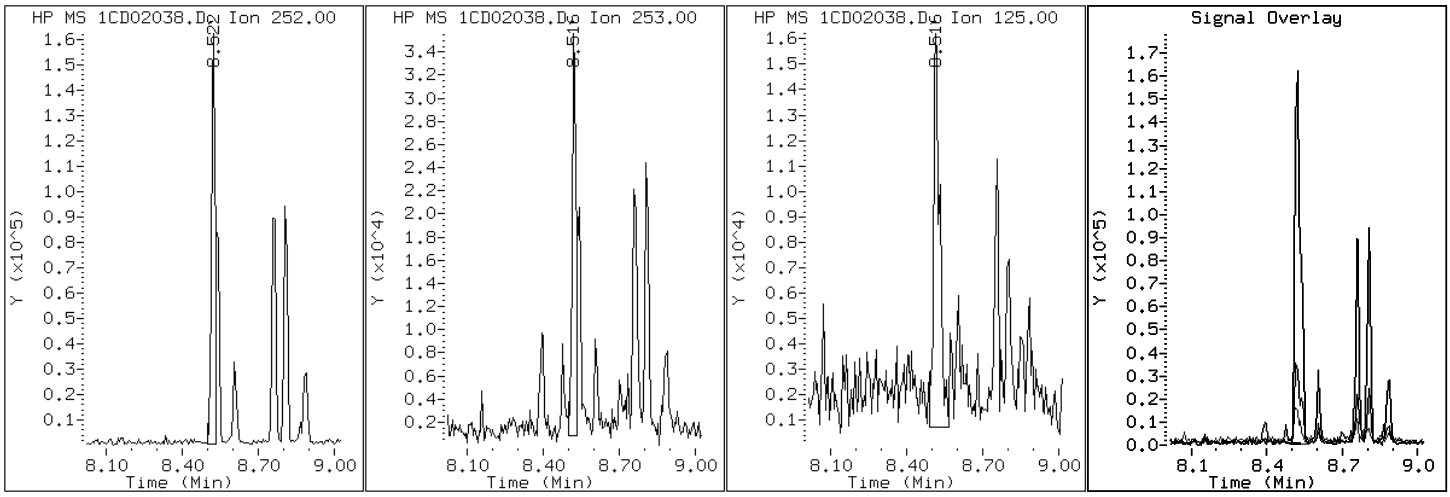
Data File: 1CD02038.D

Date: 02-APR-2013 23:41

Client ID: CV0613G-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-8-a Operator: SCC

20 Benzo(b)fluoranthene



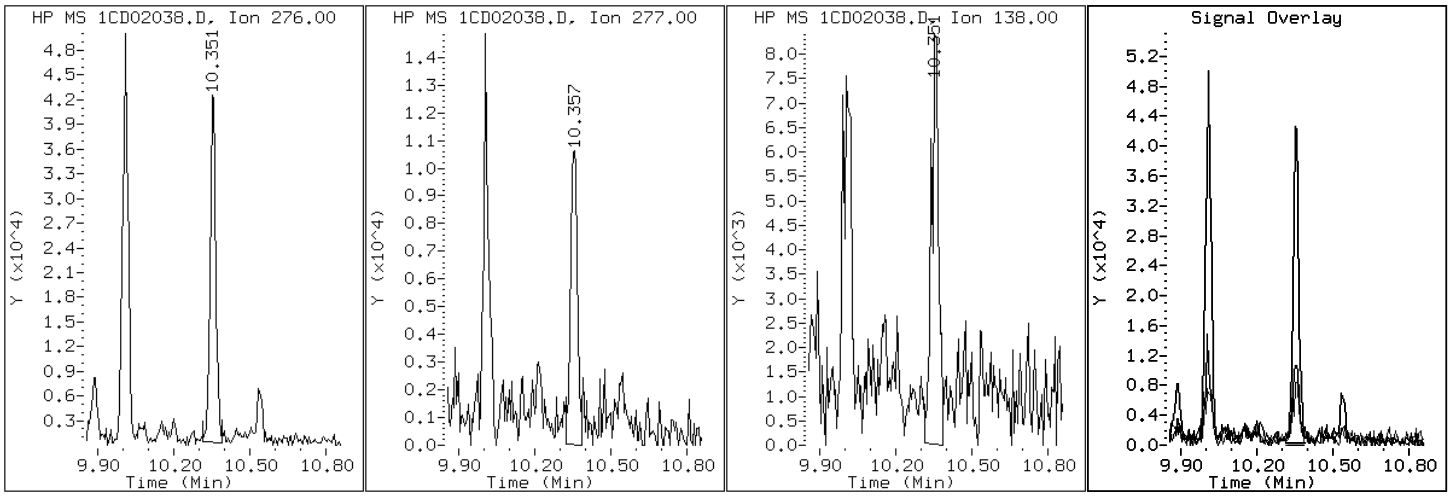
Data File: 1CD02038.D

Date: 02-APR-2013 23:41

Client ID: CV0613G-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-8-a Operator: SCC

26 Benzo(g,h,i)perylene



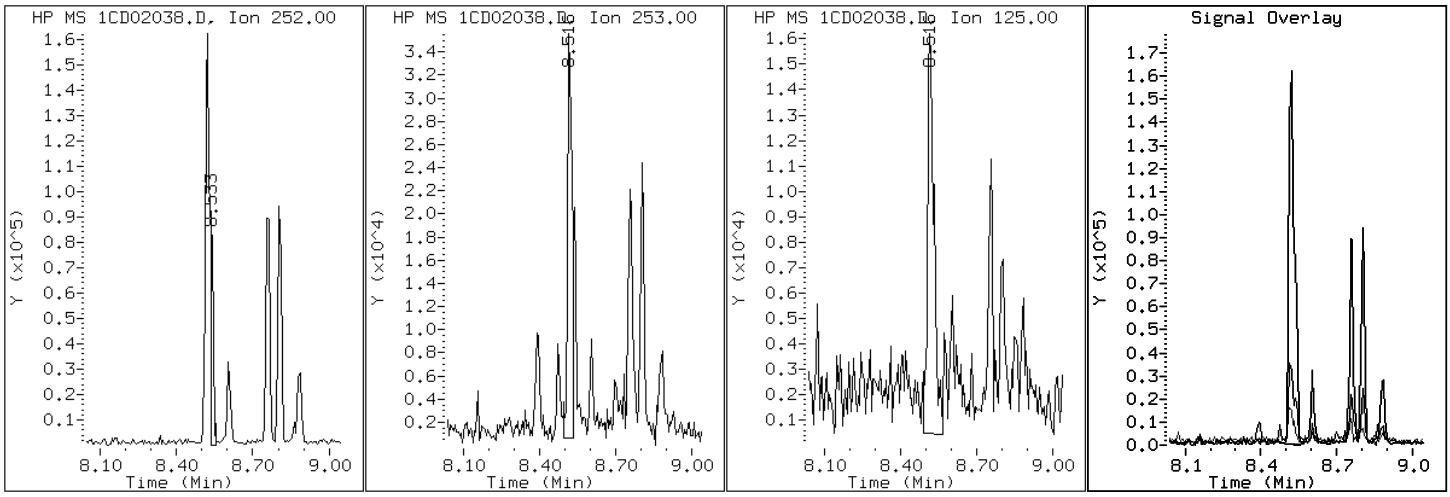
Data File: 1CD02038.D

Date: 02-APR-2013 23:41

Client ID: CV0613G-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-8-a Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD02038.D

Date: 02-APR-2013 23:41

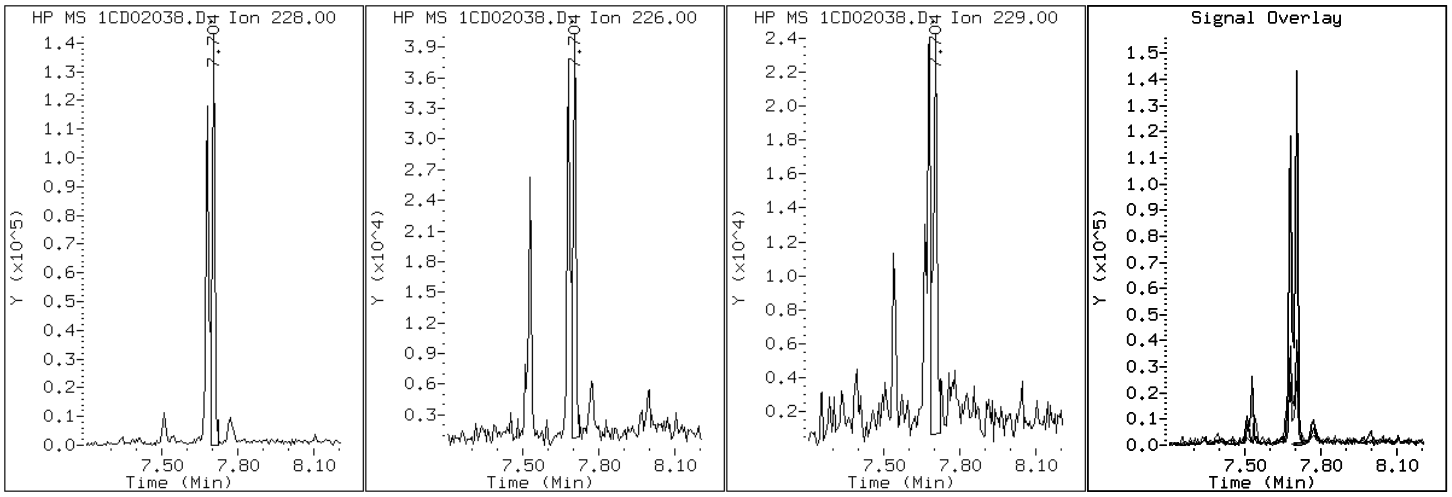
Client ID: CV0613G-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-8-a

Operator: SCC

19 Chrysene



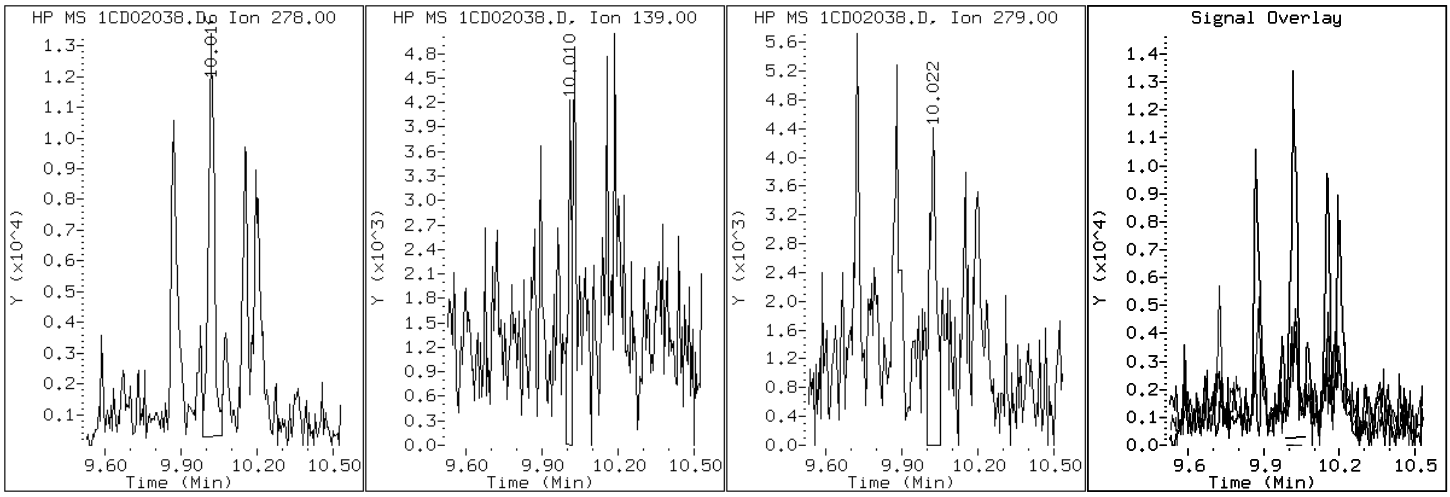
Data File: 1CD02038.D

Date: 02-APR-2013 23:41

Client ID: CV0613G-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-8-a Operator: SCC

25 Dibenzo(a,h)anthracene



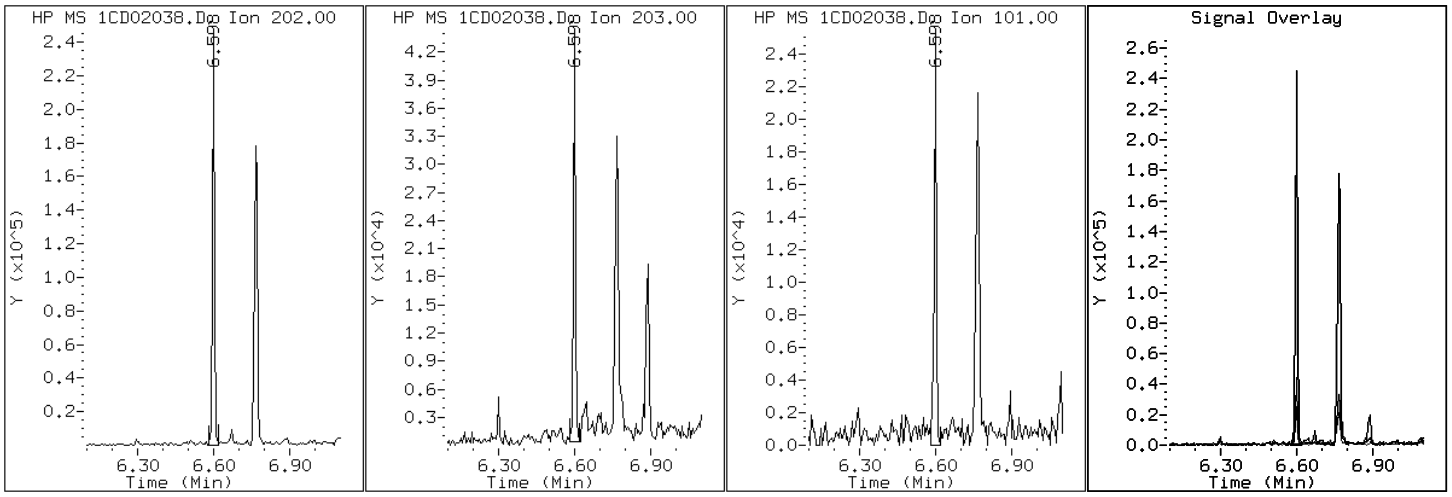
Data File: 1CD02038.D

Date: 02-APR-2013 23:41

Client ID: CV0613G-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-8-a Operator: SCC

15 Fluoranthene



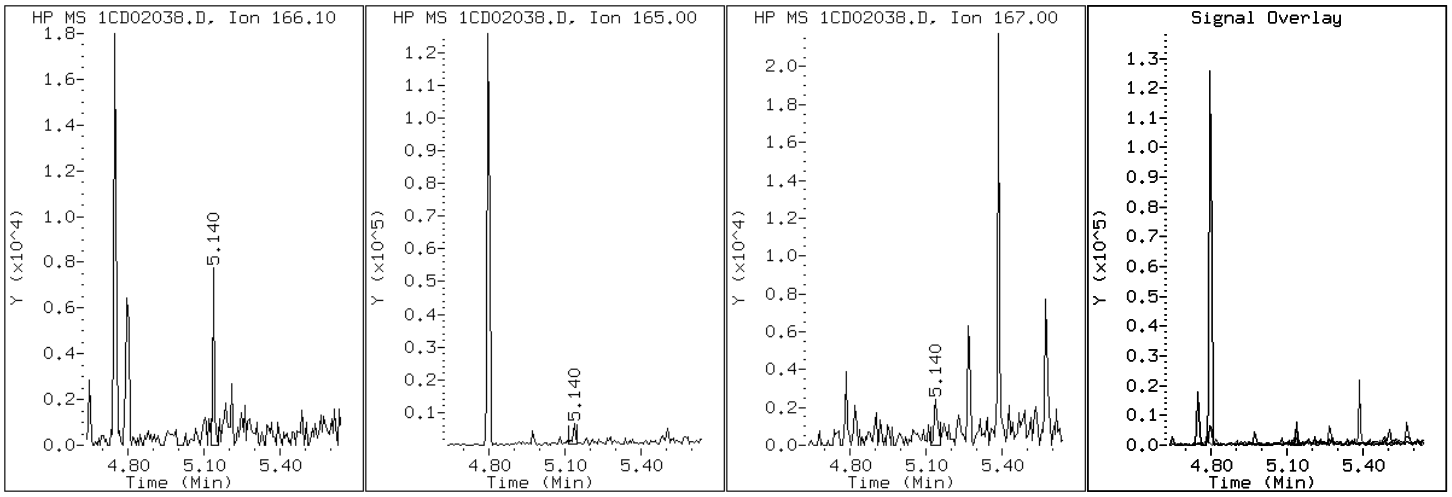
Data File: 1CD02038.D

Date: 02-APR-2013 23:41

Client ID: CV0613G-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-8-a Operator: SCC

9 Fluorene



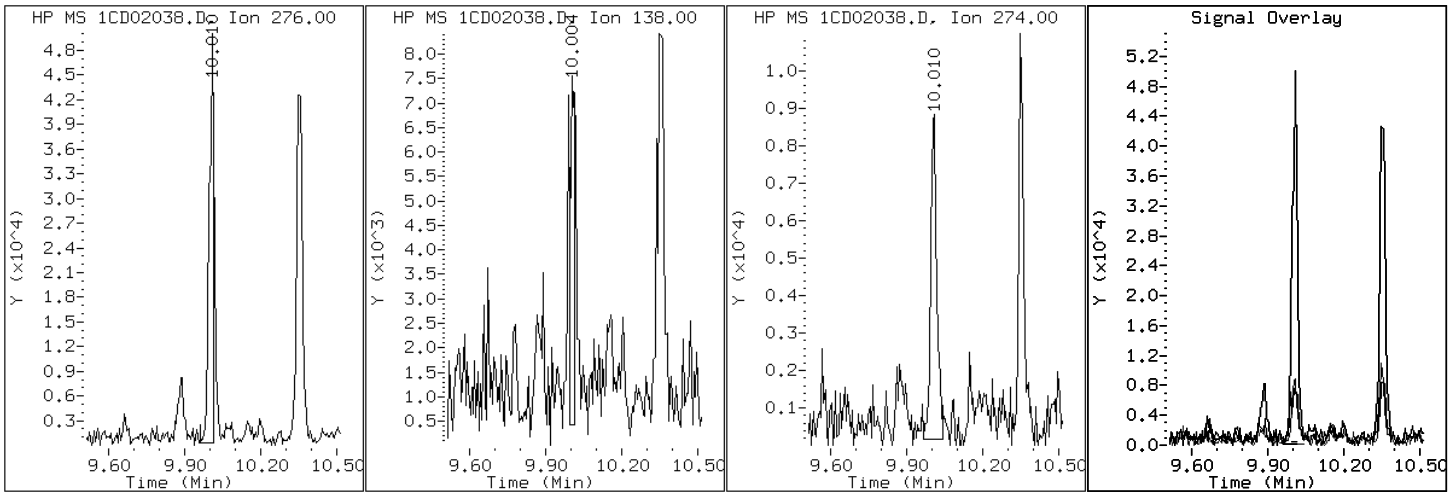
Data File: 1CD02038.D

Date: 02-APR-2013 23:41

Client ID: CV0613G-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-8-a Operator: SCC

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



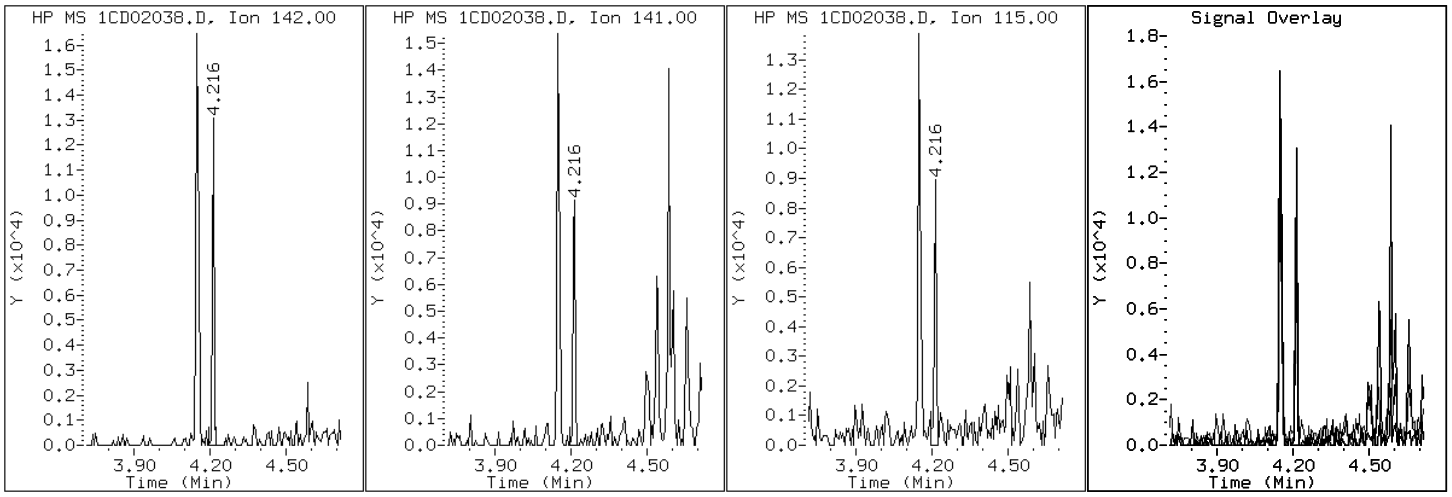
Data File: 1CD02038.D

Date: 02-APR-2013 23:41

Client ID: CV0613G-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-8-a Operator: SCC

4 1-Methylnaphthalene



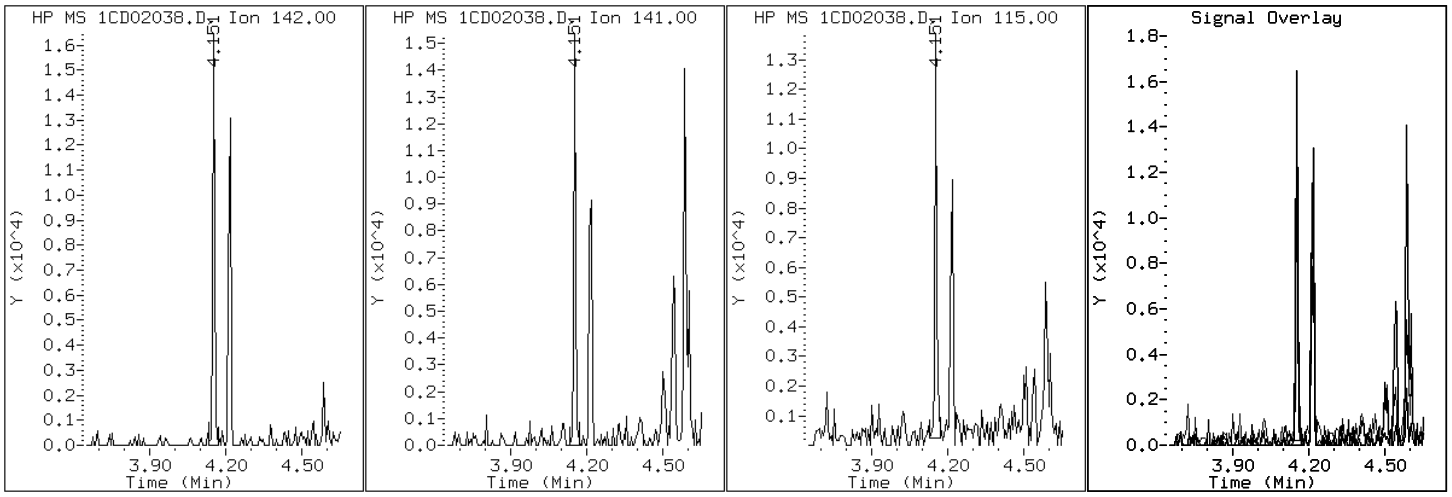
Data File: 1CD02038.D

Date: 02-APR-2013 23:41

Client ID: CV0613G-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-8-a Operator: SCC

3 2-Methylnaphthalene



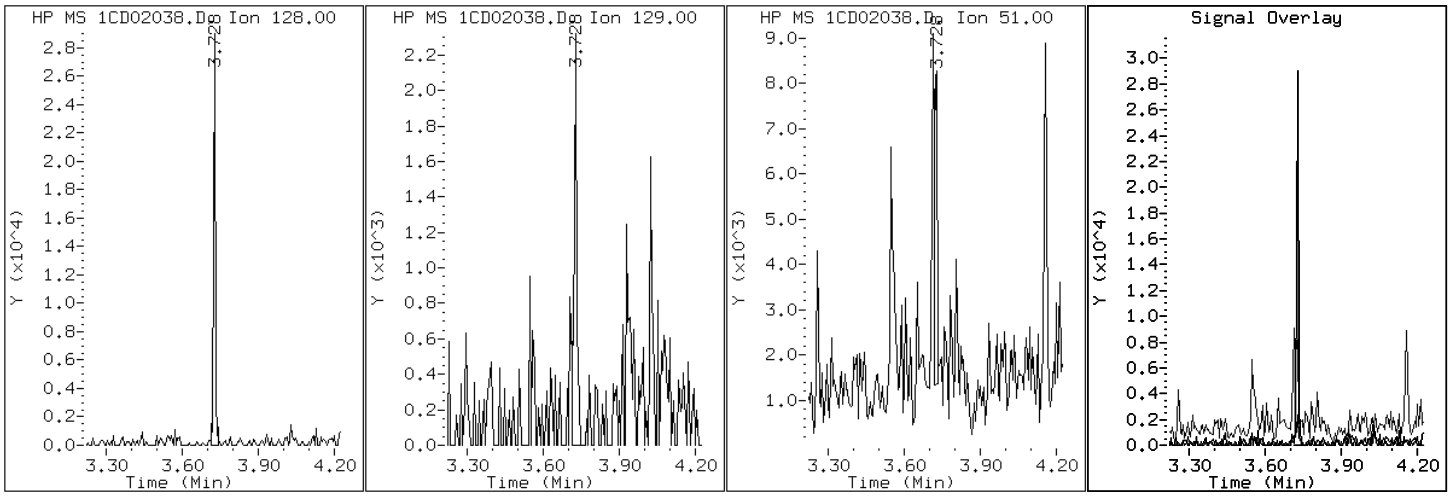
Data File: 1CD02038.D

Date: 02-APR-2013 23:41

Client ID: CV0613G-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-8-a Operator: SCC

2 Naphthalene



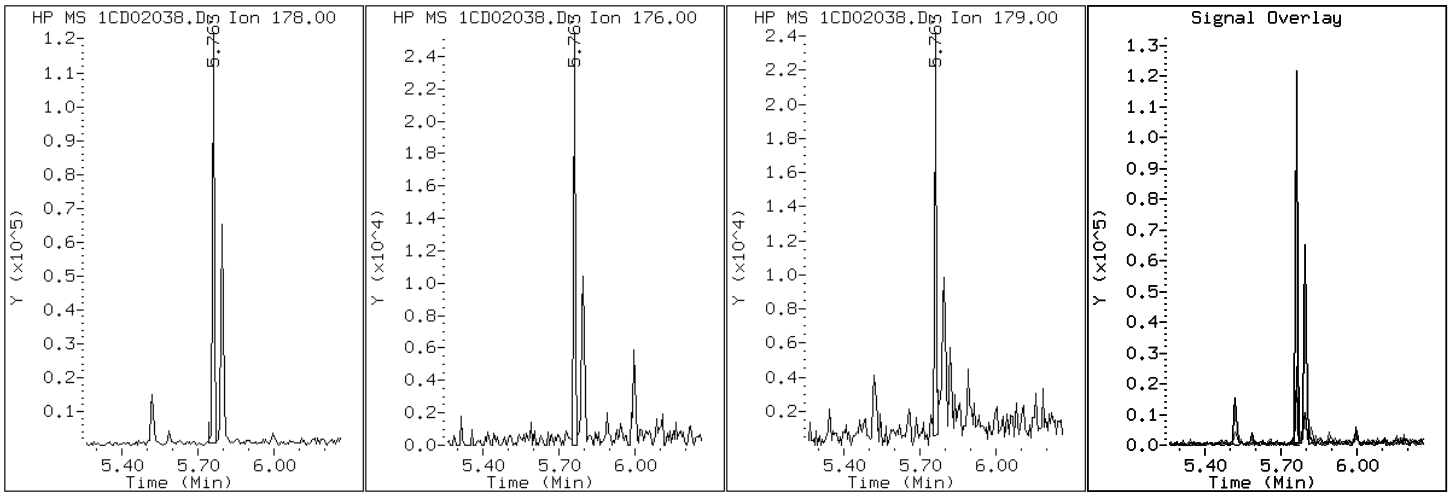
Data File: 1CD02038.D

Date: 02-APR-2013 23:41

Client ID: CV0613G-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-8-a Operator: SCC

11 Phenanthrene



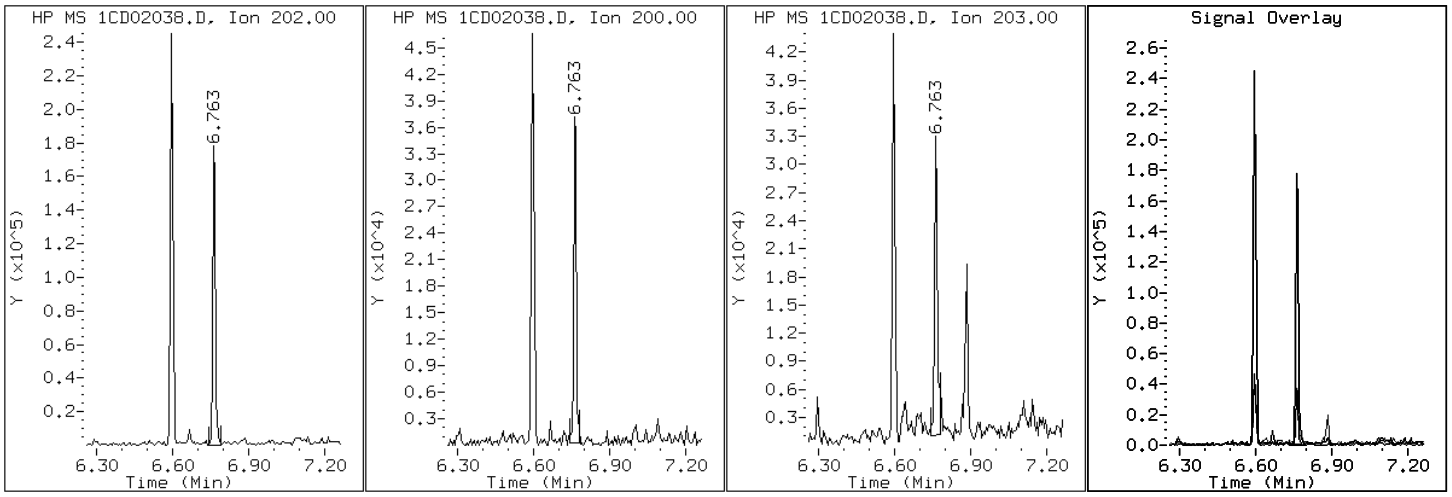
Data File: 1CD02038.D

Date: 02-APR-2013 23:41

Client ID: CV0613G-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-8-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD02038.D
Inj. Date and Time: 02-APR-2013 23:41
Instrument ID: BSMC5973.i
Client ID: CV0613G-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

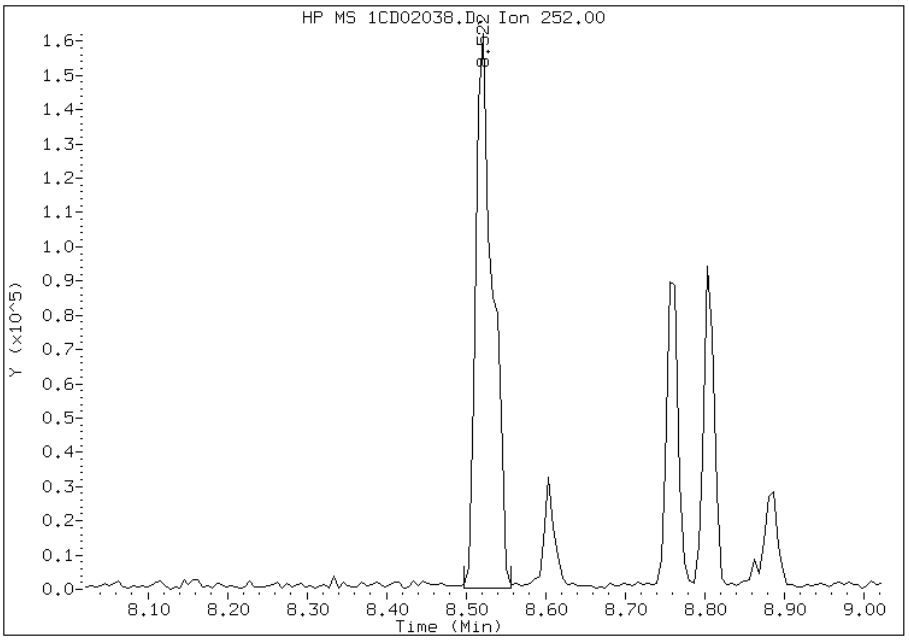
Processing Integration Results

RT: 8.52

Response: 240469

Amount: 8

Conc: 705



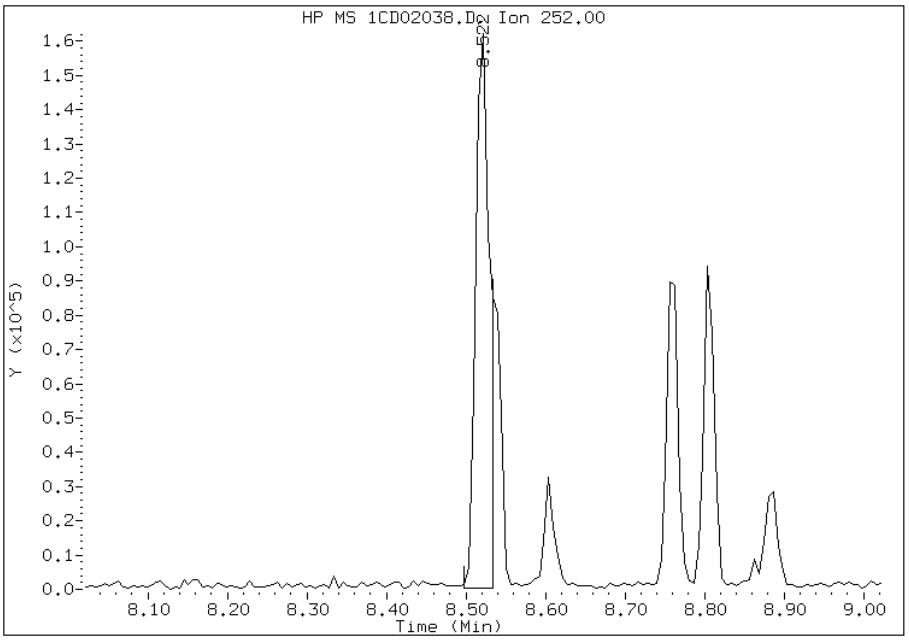
Manual Integration Results

RT: 8.52

Response: 195561

Amount: 6

Conc: 574



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:09
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD02038.D
Inj. Date and Time: 02-APR-2013 23:41
Instrument ID: BSMC5973.i
Client ID: CV0613G-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

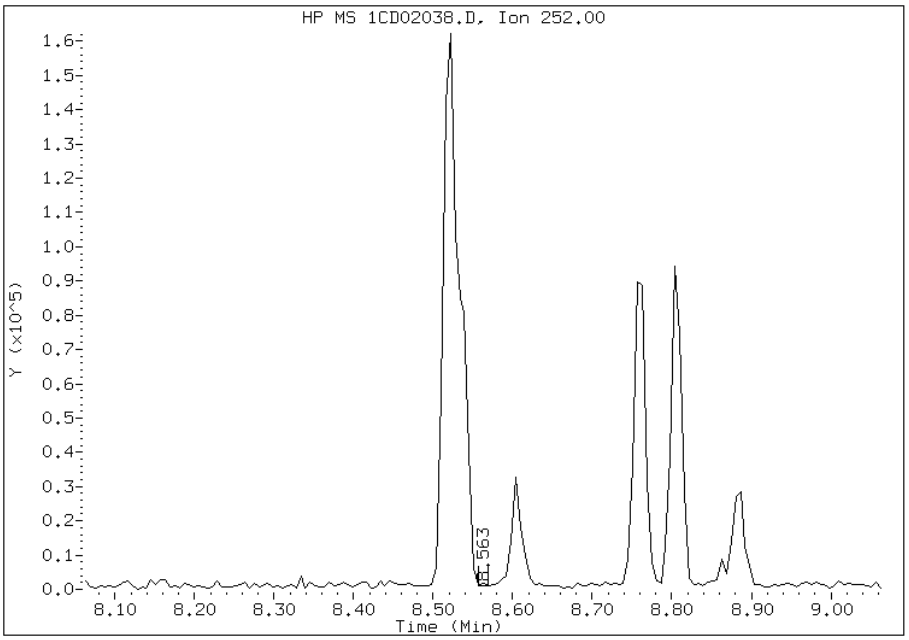
Processing Integration Results

RT: 8.56

Response: 297

Amount: 0

Conc: 1



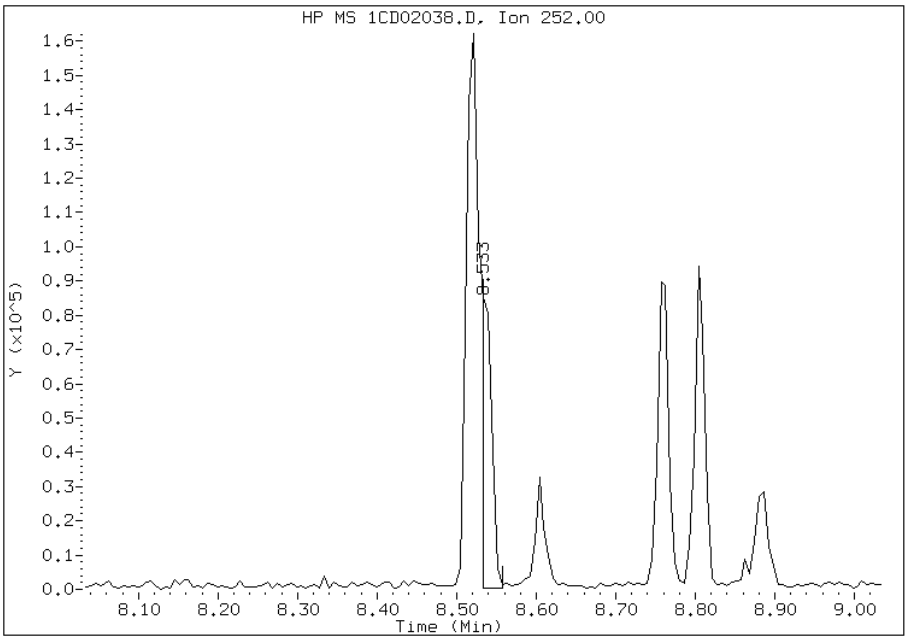
Manual Integration Results

RT: 8.53

Response: 75050

Amount: 3

Conc: 228



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:09
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD02038.D
Inj. Date and Time: 02-APR-2013 23:41
Instrument ID: BSMC5973.i
Client ID: CV0613G-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

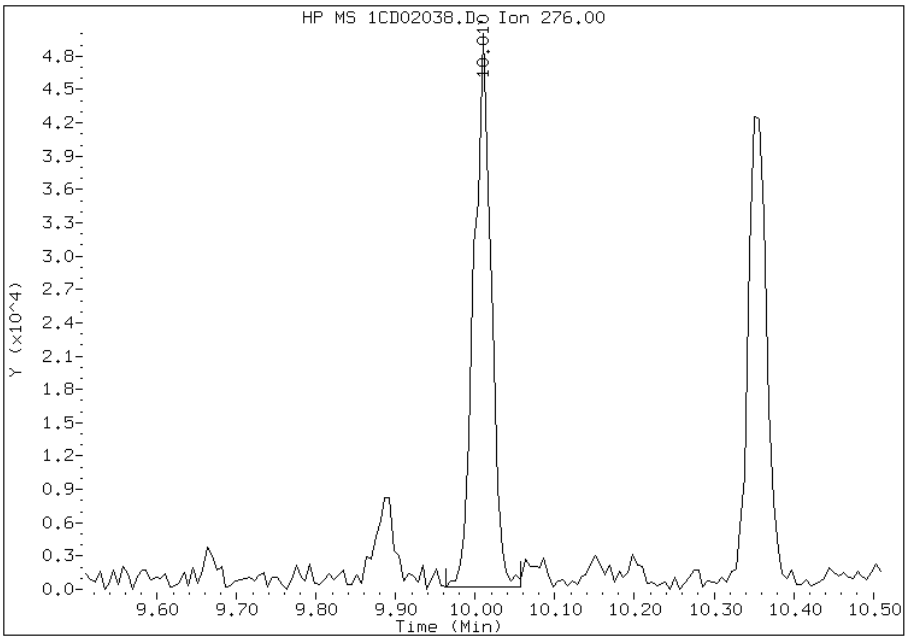
Processing Integration Results

RT: 10.01

Response: 74775

Amount: 3

Conc: 245



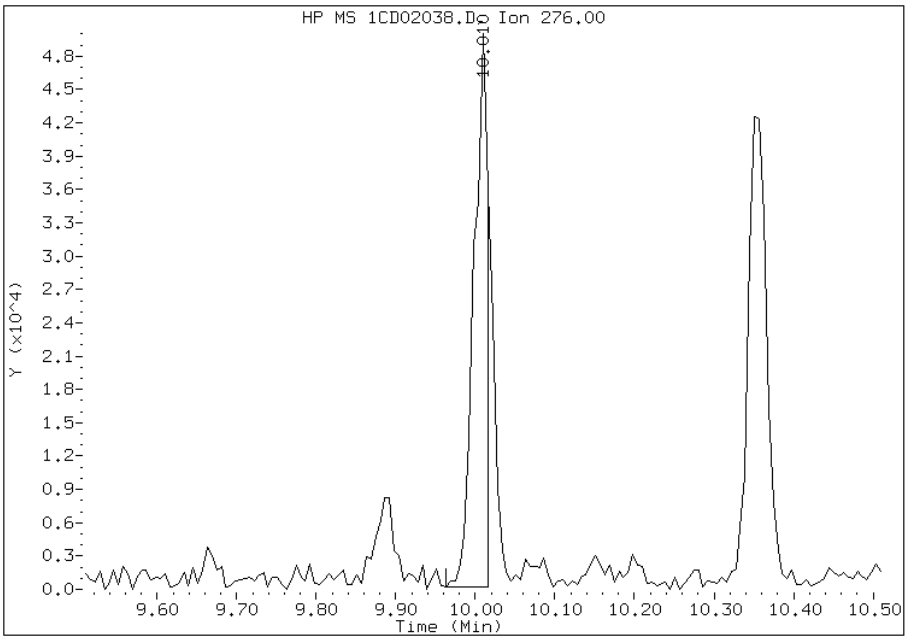
Manual Integration Results

RT: 10.01

Response: 60748

Amount: 2

Conc: 199



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:10
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-1

SDG No.: 68088766-1

Client Sample ID: CV0613H-CS | Lab Sample ID: 680-88766-9

Matrix: Solid | Lab File ID: 1CD02039.D

Analysis Method: 8270C LL | Date Collected: 03/25/2013 14:07

Extract. Method: 3546 | Date Extracted: 03/29/2013 10:19

Sample wt/vol: 14.84(g) | Date Analyzed: 04/02/2013 23:59

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

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

% Moisture: 16.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136079 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	480	U	480	96
208-96-8	Acenaphthylene	130	J	190	24
120-12-7	Anthracene	250		40	20
56-55-3	Benzo[a]anthracene	730		39	19
50-32-8	Benzo[a]pyrene	660		50	25
205-99-2	Benzo[b]fluoranthene	1300		59	29
191-24-2	Benzo[g,h,i]perylene	540		96	21
207-08-9	Benzo[k]fluoranthene	450		39	17
218-01-9	Chrysene	840		43	22
53-70-3	Dibenz(a,h)anthracene	150		96	20
206-44-0	Fluoranthene	1400		96	19
86-73-7	Fluorene	75	J	96	20
193-39-5	Indeno[1,2,3-cd]pyrene	520		96	34
90-12-0	1-Methylnaphthalene	94	J	190	21
91-57-6	2-Methylnaphthalene	140	J	190	34
91-20-3	Naphthalene	160	J	190	21
85-01-8	Phenanthrene	680		39	19
129-00-0	Pyrene	1100		96	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	97		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1CD02039.D
Lab Smp Id: 680-88766-A-9-A Client Smp ID: CV0613H-CS
Inj Date : 02-APR-2013 23:59
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88766-a-9-a
Misc Info : 680-88766-A-9-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 16:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 38
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.840	Weight Extracted
M	16.006	% 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	3.710	3.710	(1.000)	690836	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	572206	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	1039750	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	28712	2.41719	775.6902
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	1190827	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	1123922	40.0000	
2 Naphthalene	128	3.727	3.721	(1.005)	8831	0.49769	159.7119
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	5191	0.42977	137.9152
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	3188	0.29333	94.1307
5 Acenaphthylene	152	4.710	4.710	(0.982)	9694	0.40934	131.3588
9 Fluorene	166	5.139	5.139	(1.071)	4550	0.23269	74.6717(Q)
11 Phenanthrene	178	5.762	5.763	(1.003)	64311	2.12371	681.5128
12 Anthracene	178	5.798	5.798	(1.009)	24066	0.78397	251.5825
13 Carbazole	167	5.904	5.904	(1.028)	9651	0.36696	117.7598

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.598	6.598	(1.148)	142258	4.25374	1365.0519
16 Pyrene	202	6.768	6.762	(0.881)	114408	3.46829	1112.9975
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	74250	2.28755	734.0878
19 Chrysene	228	7.704	7.704	(1.002)	88336	2.60322	835.3897
20 Benzo(b)fluoranthene	252	8.521	8.521	(0.962)	126235	3.97287	1274.9206(M)
21 Benzo(k)fluoranthene	252	8.539	8.545	(0.963)	42952	1.39766	448.5174(QMH)
22 Benzo(a)pyrene	252	8.803	8.809	(0.993)	61343	2.05060	658.0497
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.015	(1.129)	46049	1.62069	520.0882(M)
25 Dibenzo(a,h)anthracene	278	10.021	10.027	(1.131)	12513	0.47674	152.9879
26 Benzo(g,h,i)perylene	276	10.345	10.356	(1.167)	48959	1.68829	541.7832

QC Flag Legend

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

Data File: 1CD02039.D

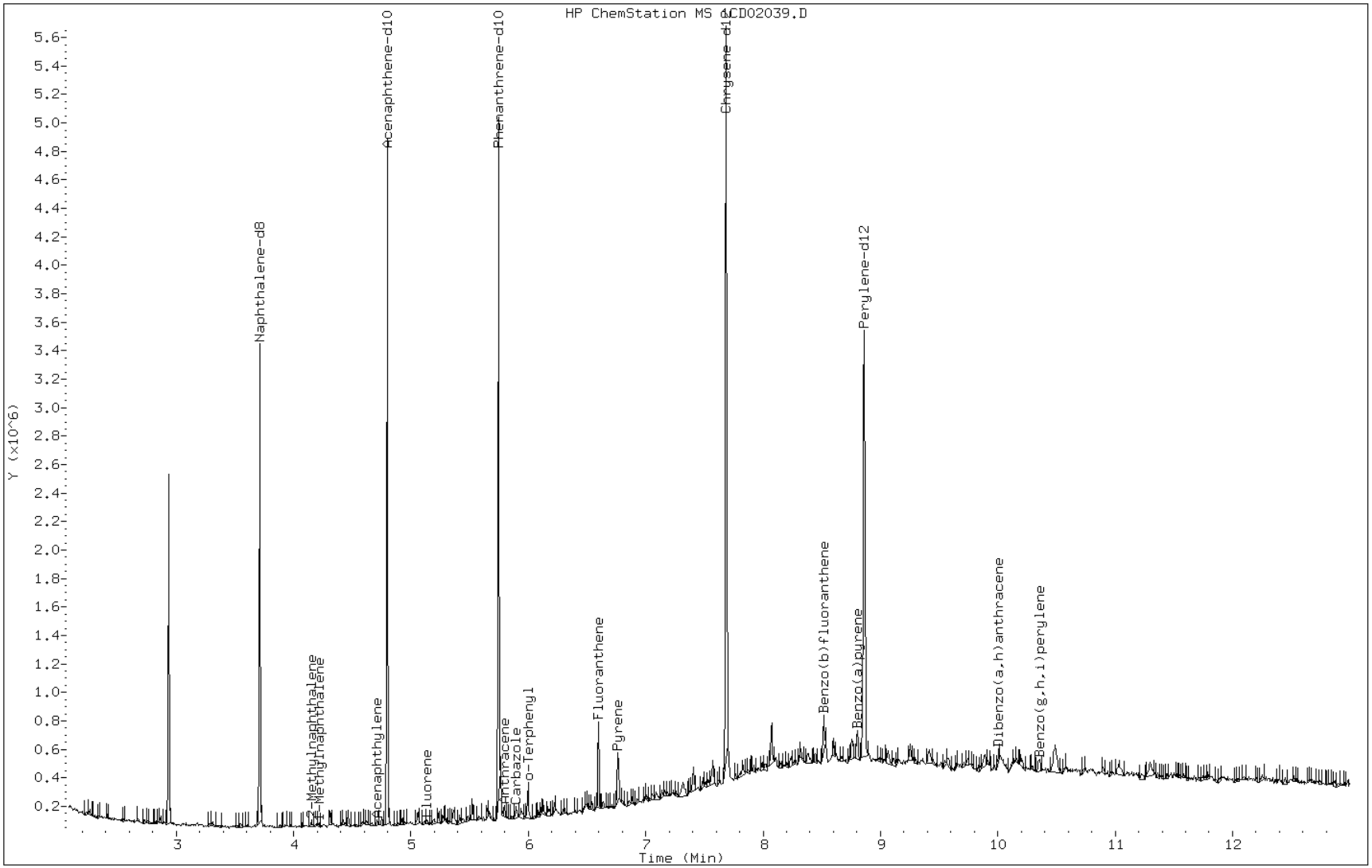
Date: 02-APR-2013 23:59

Client ID: CV0613H-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-9-a

Operator: SCC



Data File: 1CD02039.D

Date: 02-APR-2013 23:59

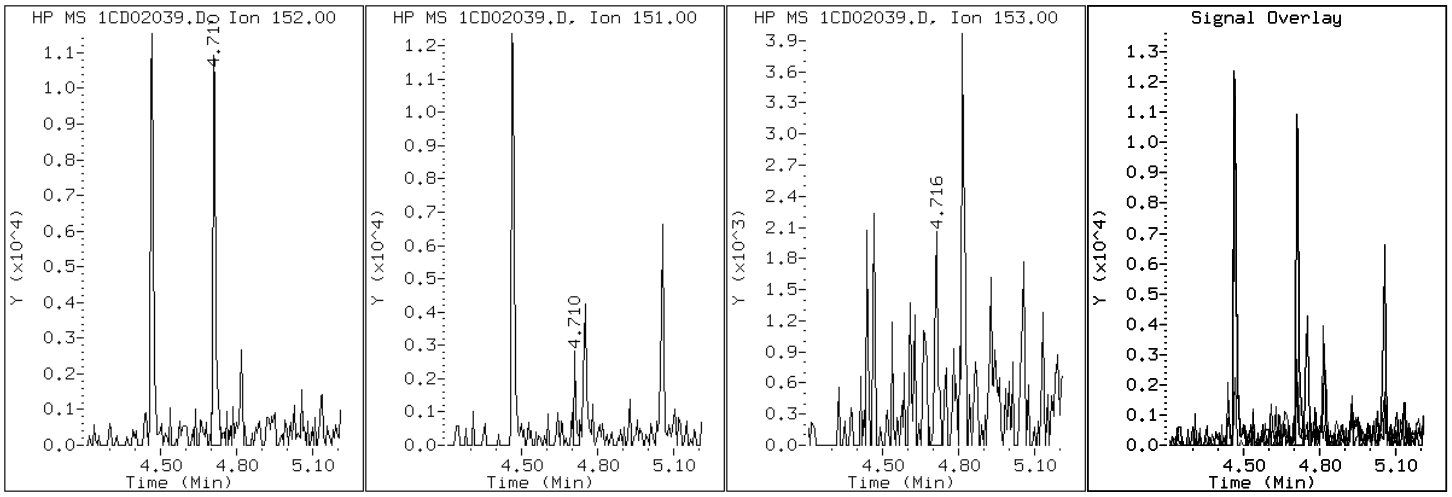
Client ID: CV0613H-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-9-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD02039.D

Date: 02-APR-2013 23:59

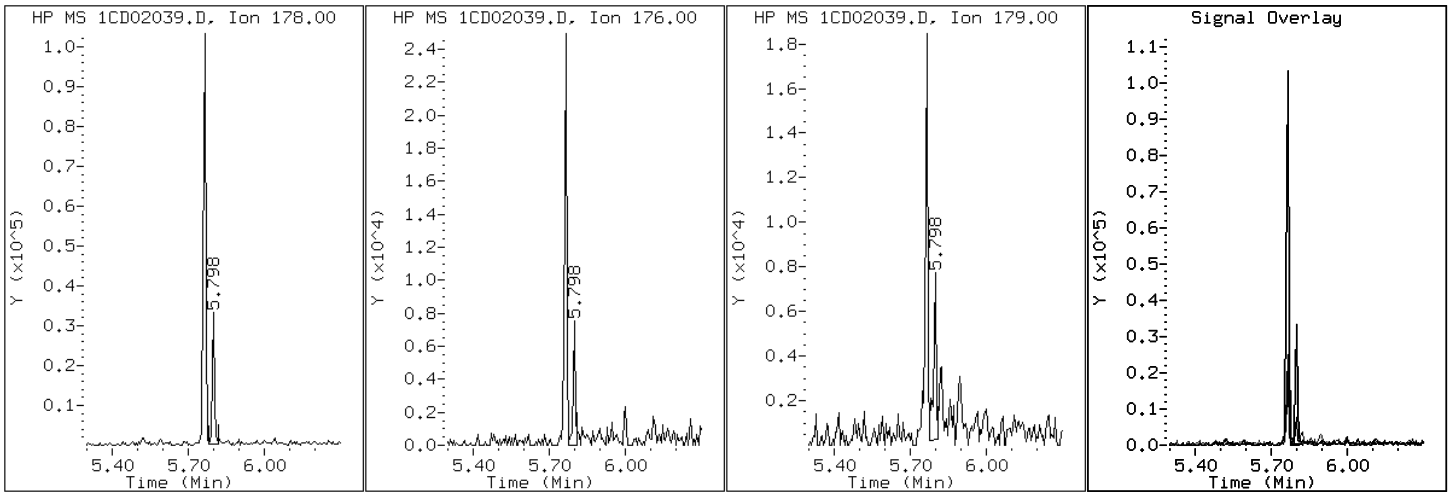
Client ID: CV0613H-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-9-a

Operator: SCC

12 Anthracene



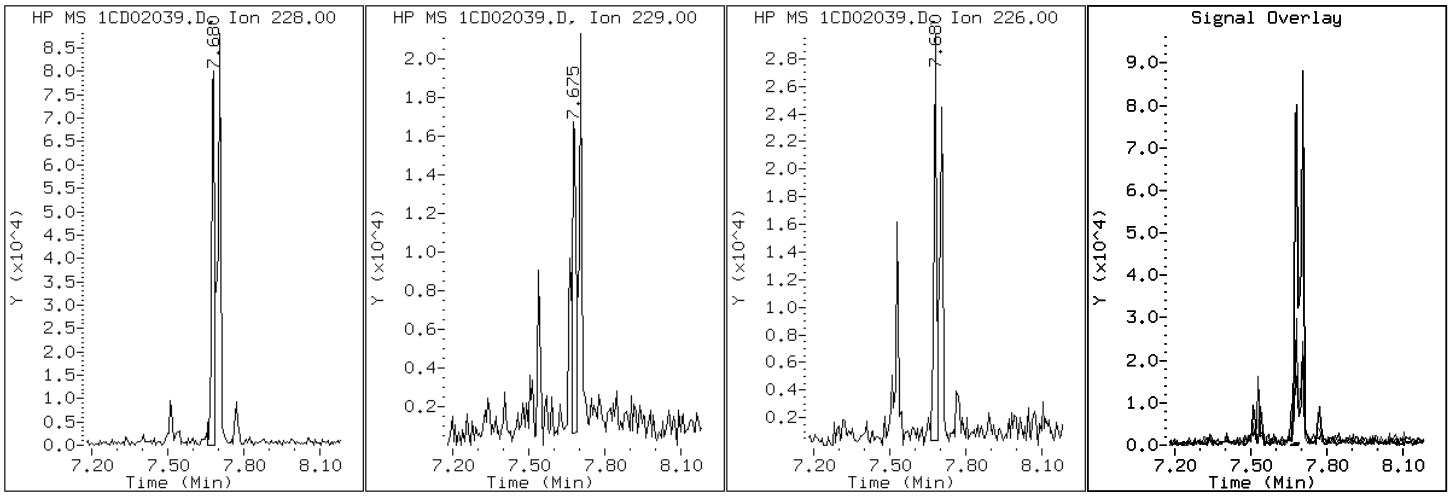
Data File: 1CD02039.D

Date: 02-APR-2013 23:59

Client ID: CV0613H-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-9-a Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD02039.D

Date: 02-APR-2013 23:59

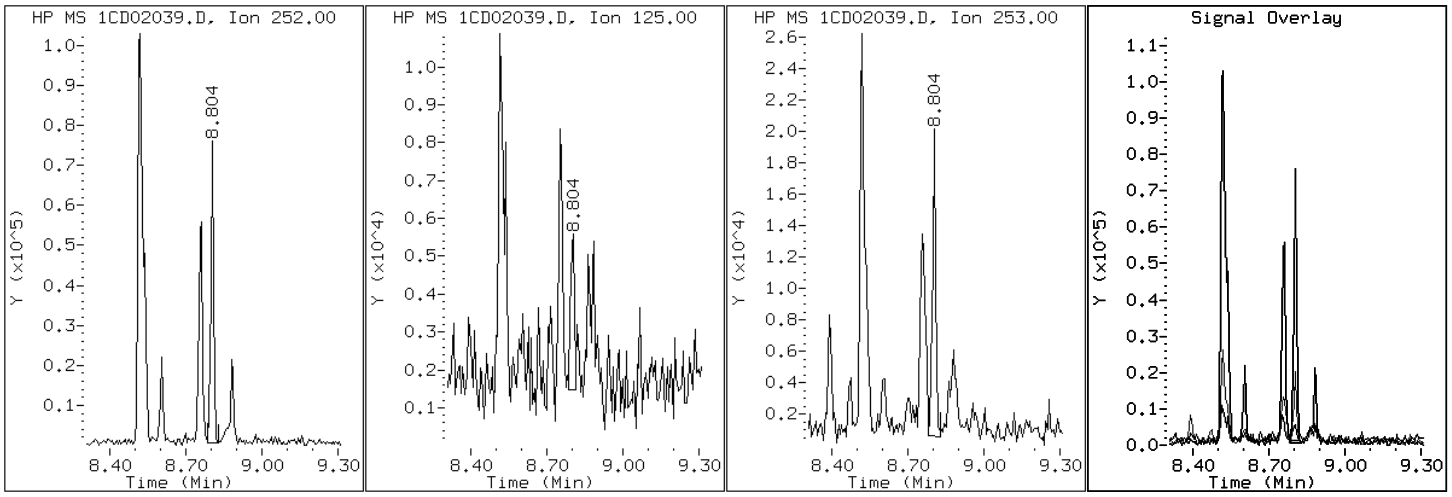
Client ID: CV0613H-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-9-a

Operator: SCC

22 Benzo(a)pyrene



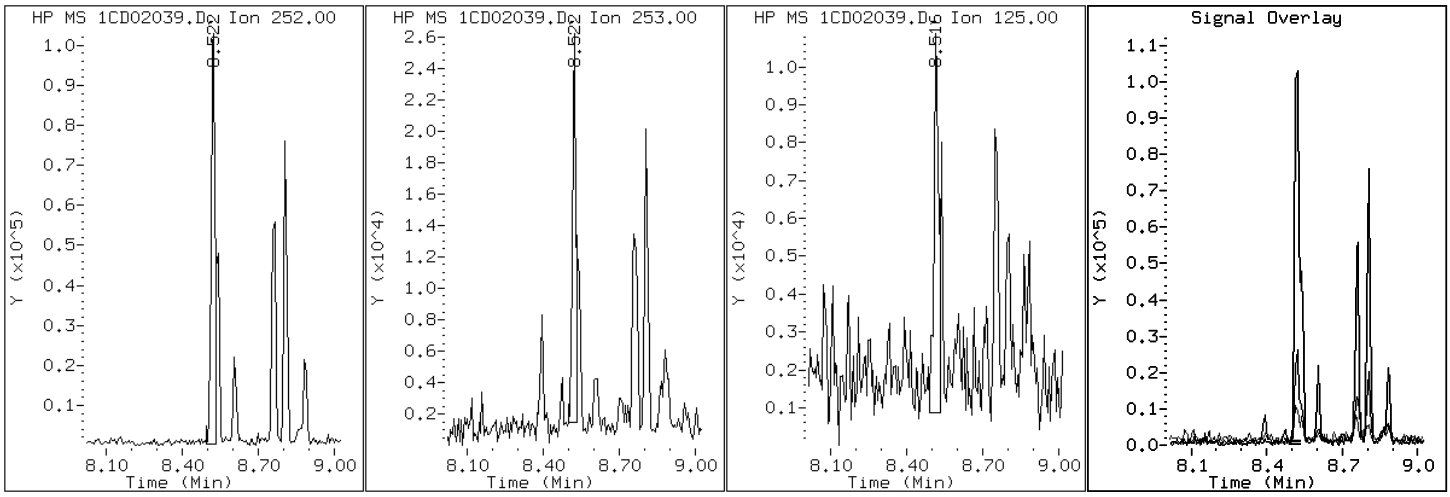
Data File: 1CD02039.D

Date: 02-APR-2013 23:59

Client ID: CV0613H-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-9-a Operator: SCC

20 Benzo(b)fluoranthene



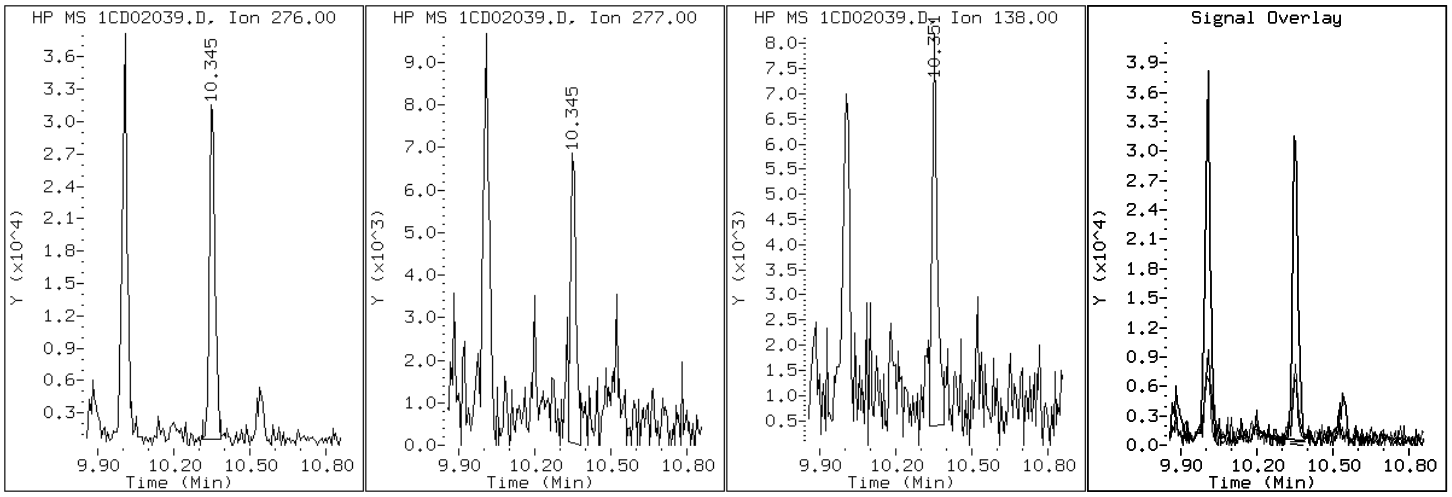
Data File: 1CD02039.D

Date: 02-APR-2013 23:59

Client ID: CV0613H-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-9-a Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD02039.D

Date: 02-APR-2013 23:59

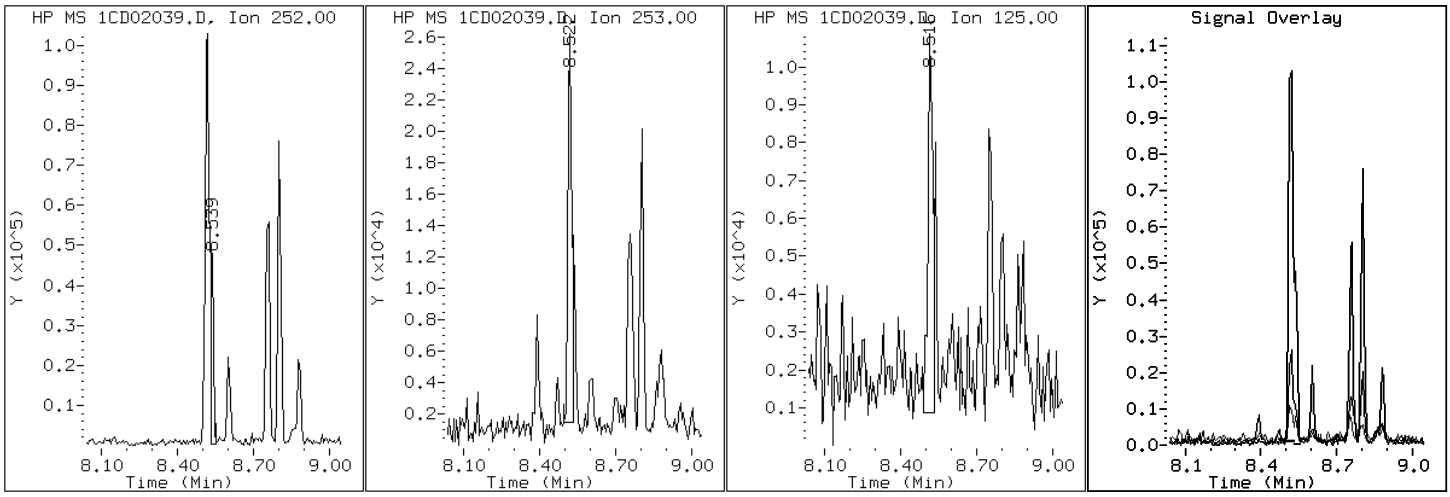
Client ID: CV0613H-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-9-a

Operator: SCC

21 Benzo(k)fluoranthene



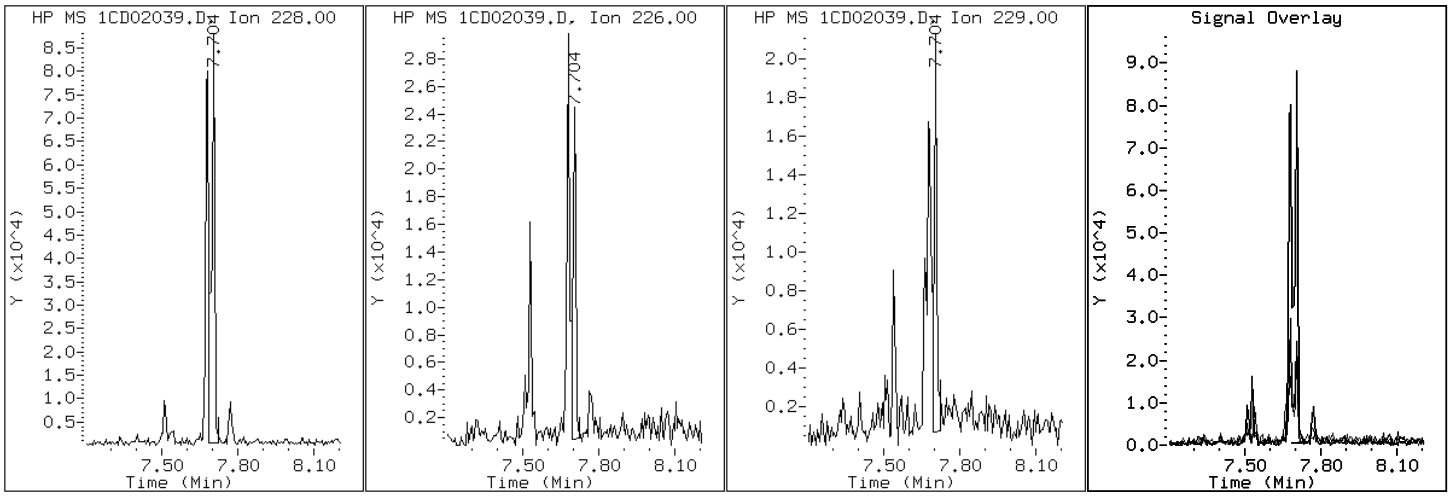
Data File: 1CD02039.D

Date: 02-APR-2013 23:59

Client ID: CV0613H-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-9-a Operator: SCC

19 Chrysene



Data File: 1CD02039.D

Date: 02-APR-2013 23:59

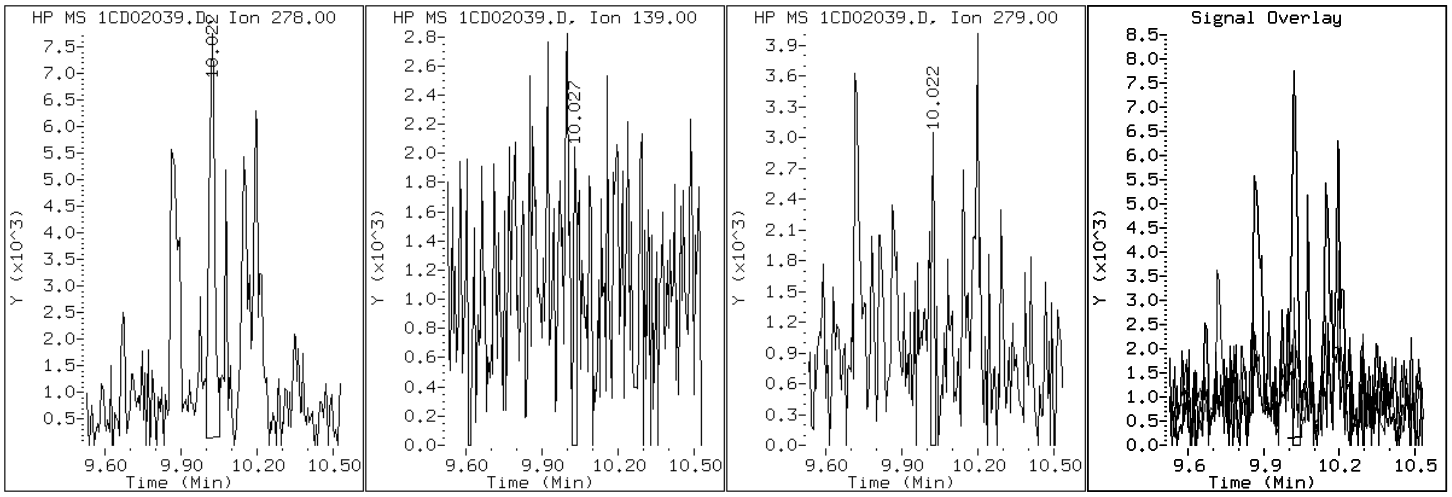
Client ID: CV0613H-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-9-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD02039.D

Date: 02-APR-2013 23:59

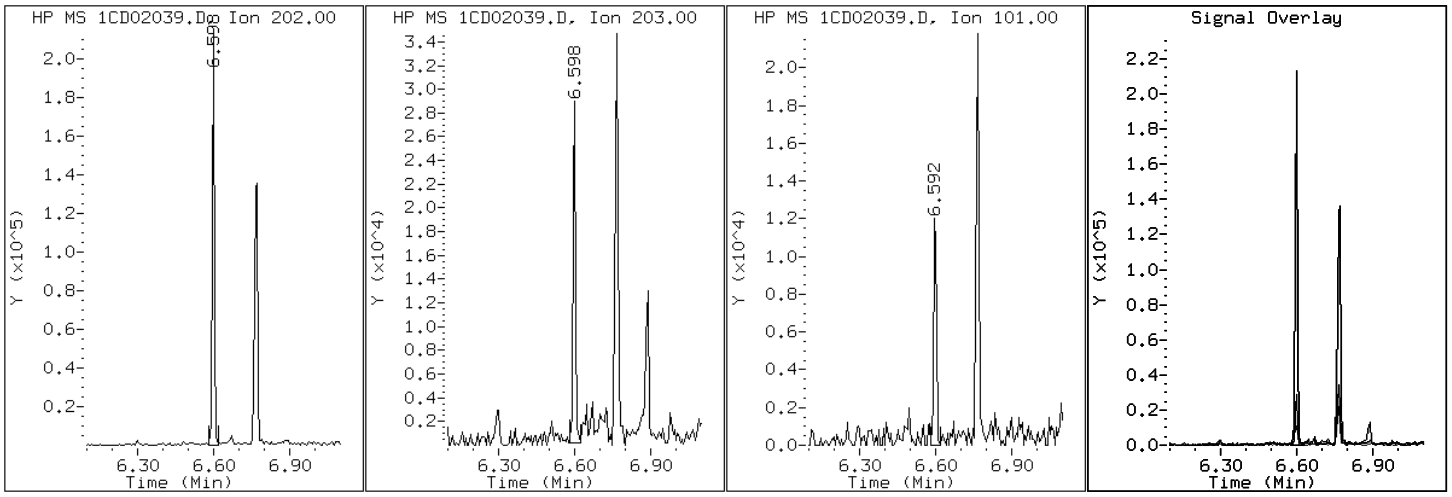
Client ID: CV0613H-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-9-a

Operator: SCC

15 Fluoranthene



Data File: 1CD02039.D

Date: 02-APR-2013 23:59

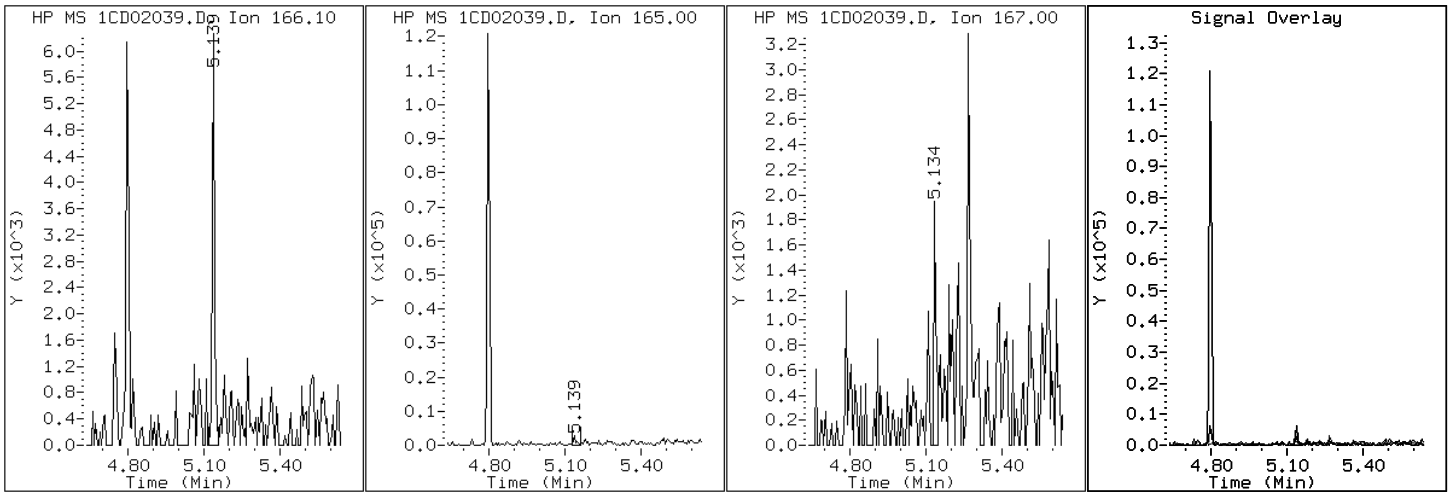
Client ID: CV0613H-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-9-a

Operator: SCC

9 Fluorene



Data File: 1CD02039.D

Date: 02-APR-2013 23:59

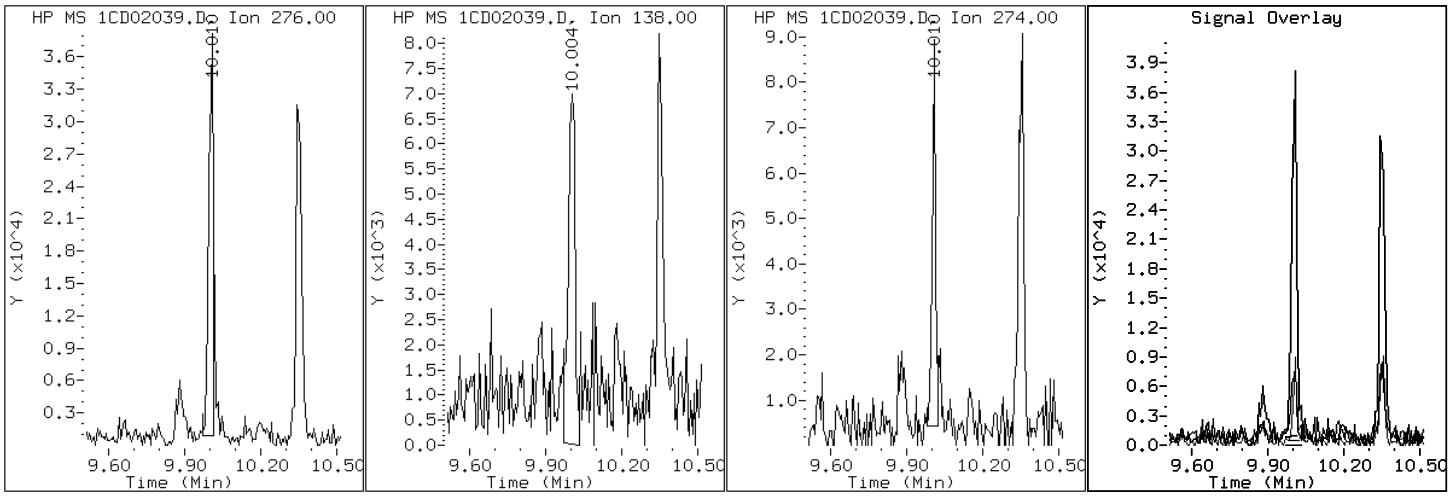
Client ID: CV0613H-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-9-a

Operator: SCC

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



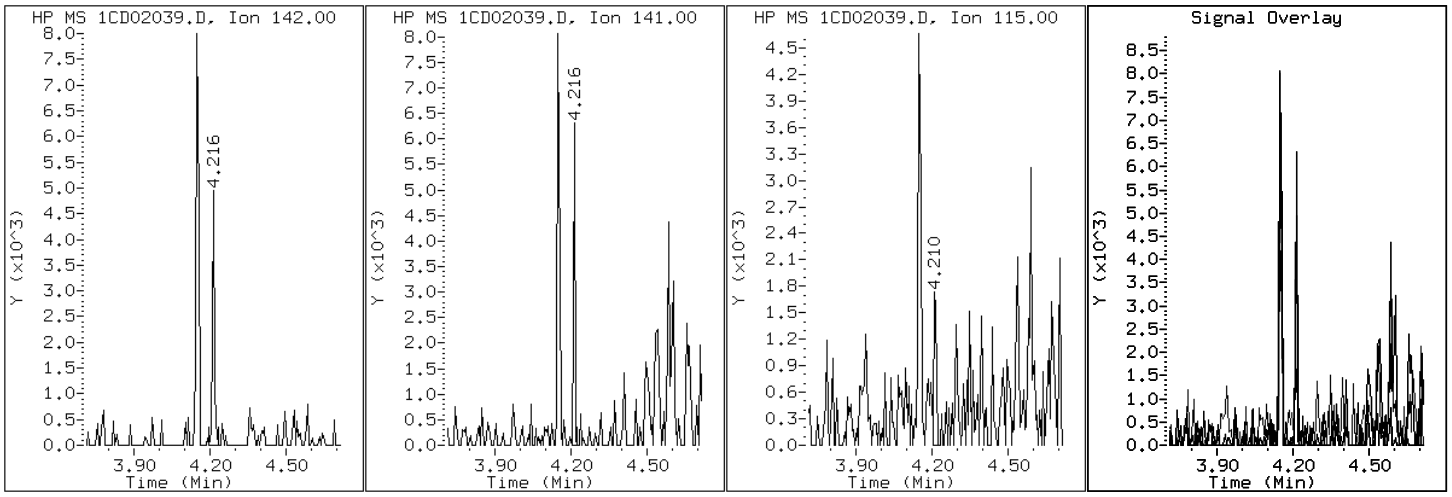
Data File: 1CD02039.D

Date: 02-APR-2013 23:59

Client ID: CV0613H-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-9-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD02039.D

Date: 02-APR-2013 23:59

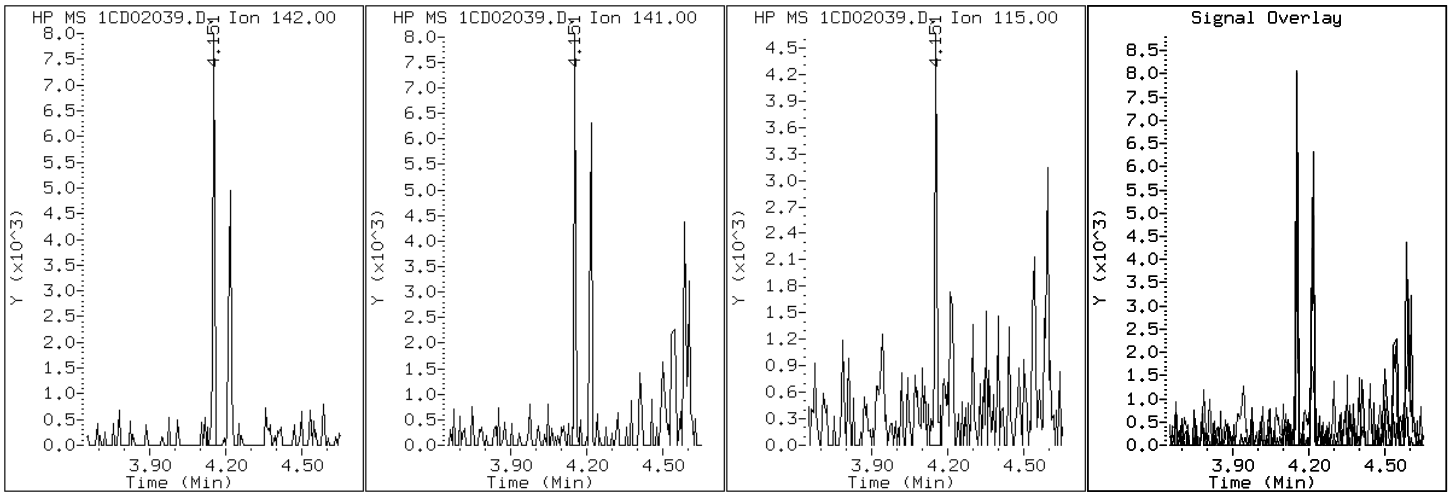
Client ID: CV0613H-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-9-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD02039.D

Date: 02-APR-2013 23:59

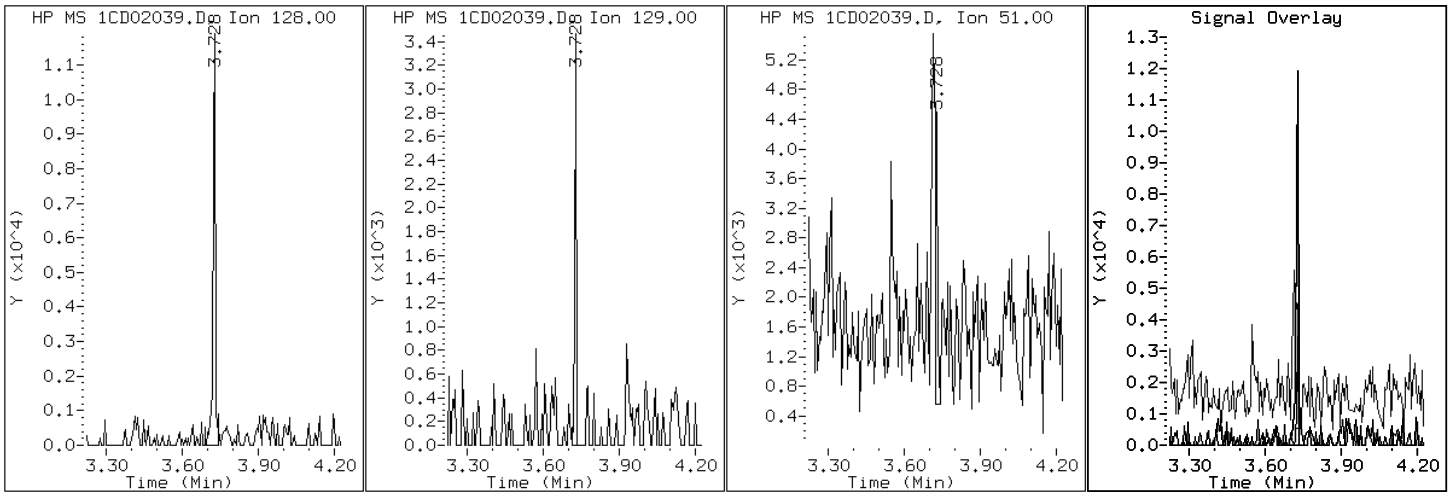
Client ID: CV0613H-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-9-a

Operator: SCC

2 Naphthalene



Data File: 1CD02039.D

Date: 02-APR-2013 23:59

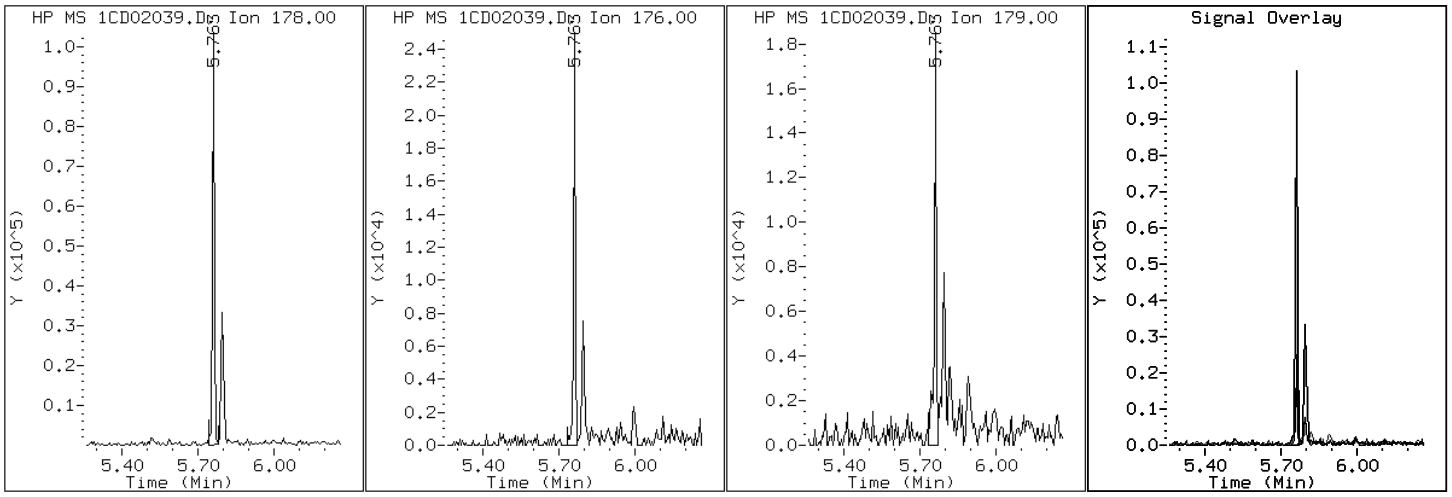
Client ID: CV0613H-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-9-a

Operator: SCC

11 Phenanthrene



Data File: 1CD02039.D

Date: 02-APR-2013 23:59

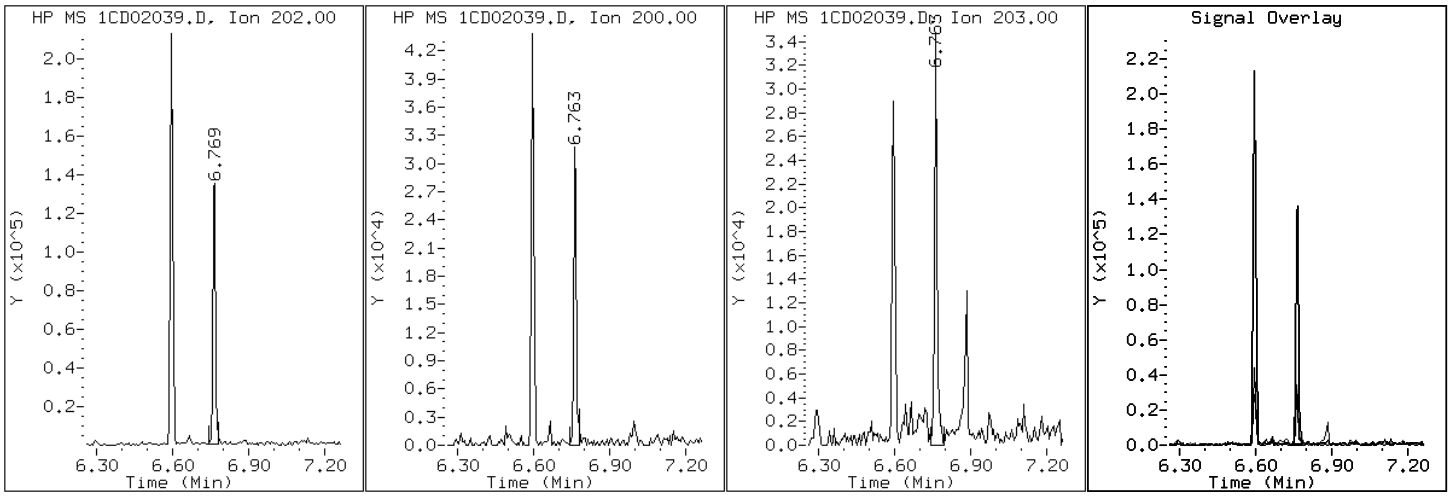
Client ID: CV0613H-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-9-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD02039.D
Inj. Date and Time: 02-APR-2013 23:59
Instrument ID: BSMC5973.i
Client ID: CV0613H-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

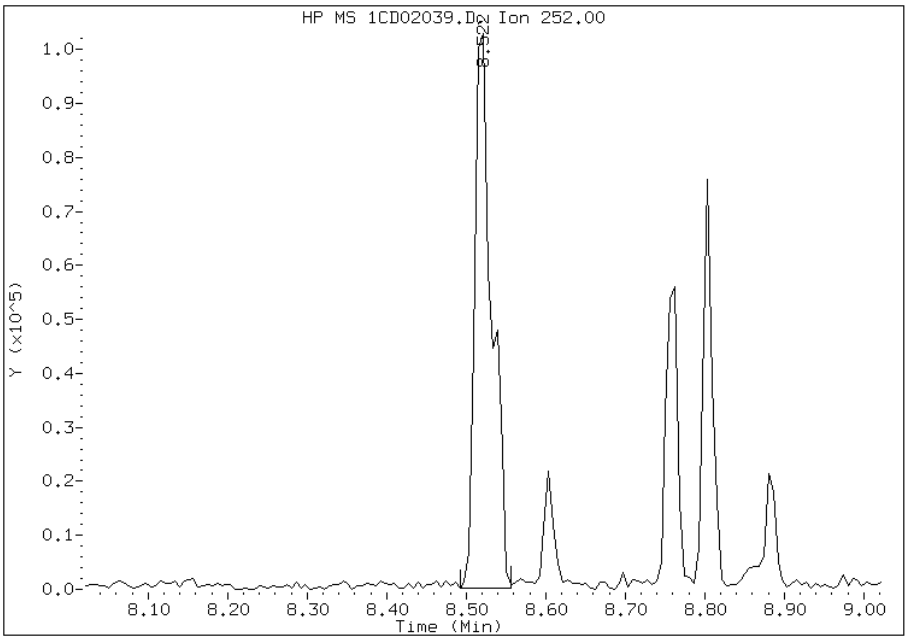
Processing Integration Results

RT: 8.52

Response: 153427

Amount: 5

Conc: 1550



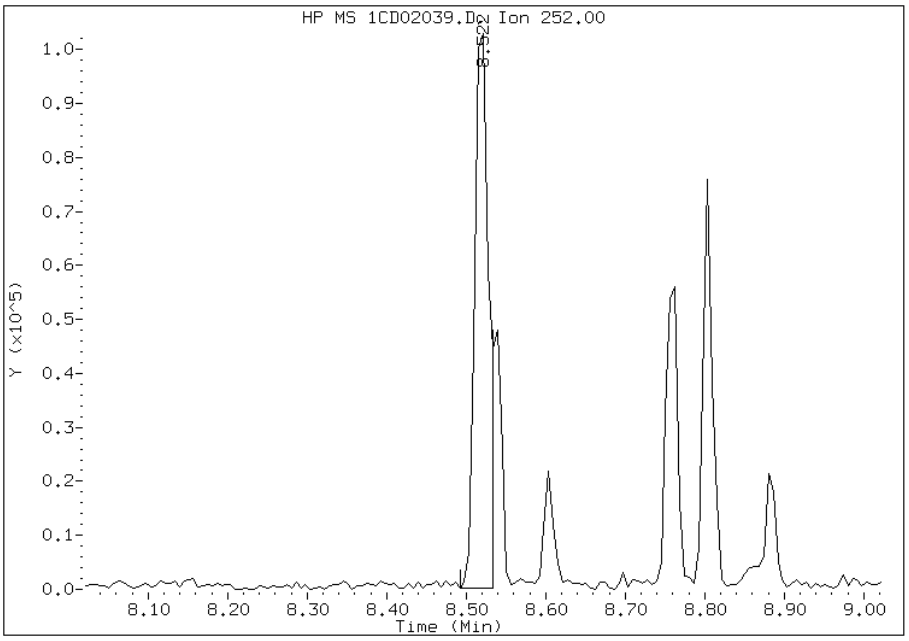
Manual Integration Results

RT: 8.52

Response: 126235

Amount: 4

Conc: 1275



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:10
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD02039.D
Inj. Date and Time: 02-APR-2013 23:59
Instrument ID: BSMC5973.i
Client ID: CV0613H-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

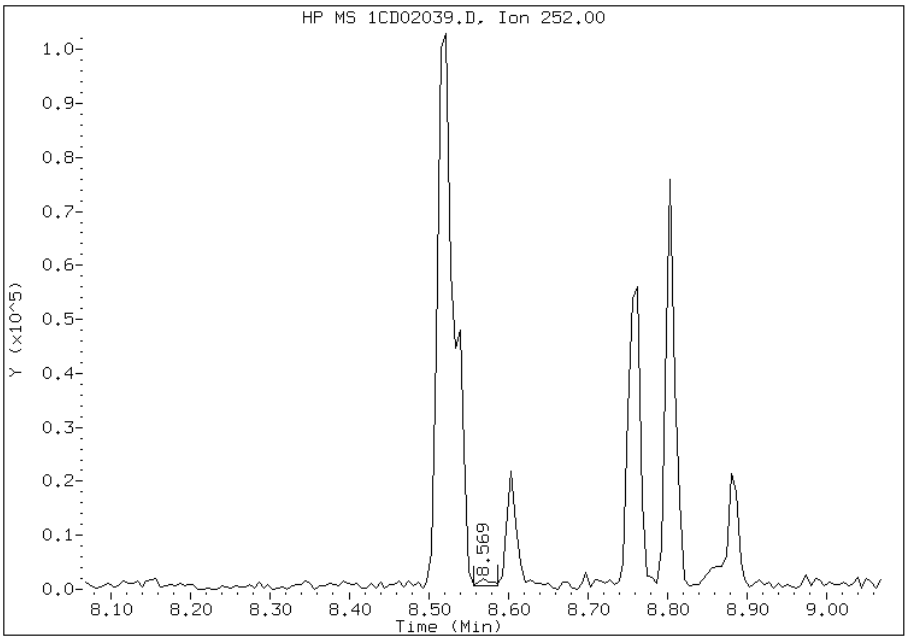
Processing Integration Results

RT: 8.57

Response: 1551

Amount: 0

Conc: 16



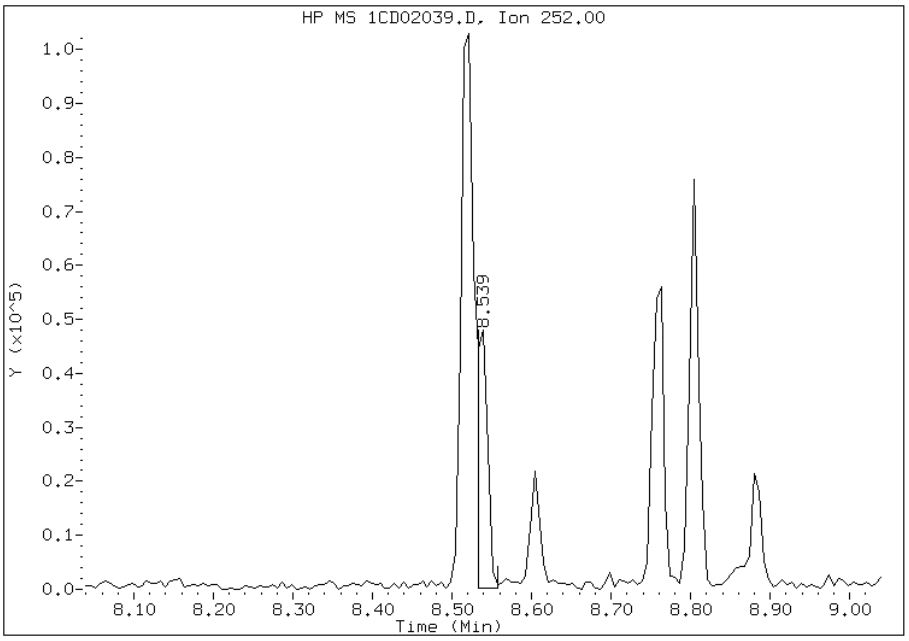
Manual Integration Results

RT: 8.54

Response: 42952

Amount: 1

Conc: 449



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:10
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD02039.D
Inj. Date and Time: 02-APR-2013 23:59
Instrument ID: BSMC5973.i
Client ID: CV0613H-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

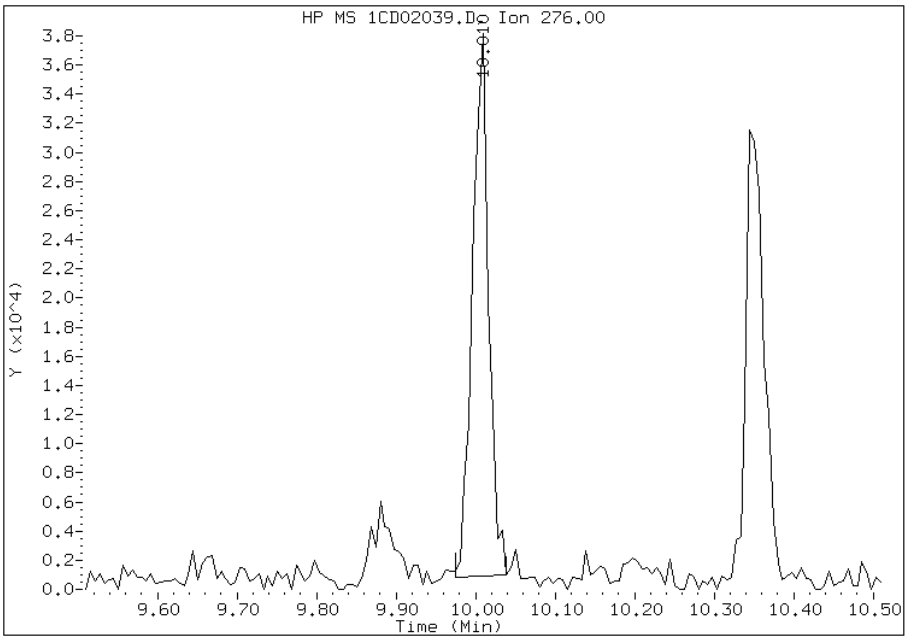
Processing Integration Results

RT: 10.01

Response: 51958

Amount: 2

Conc: 587



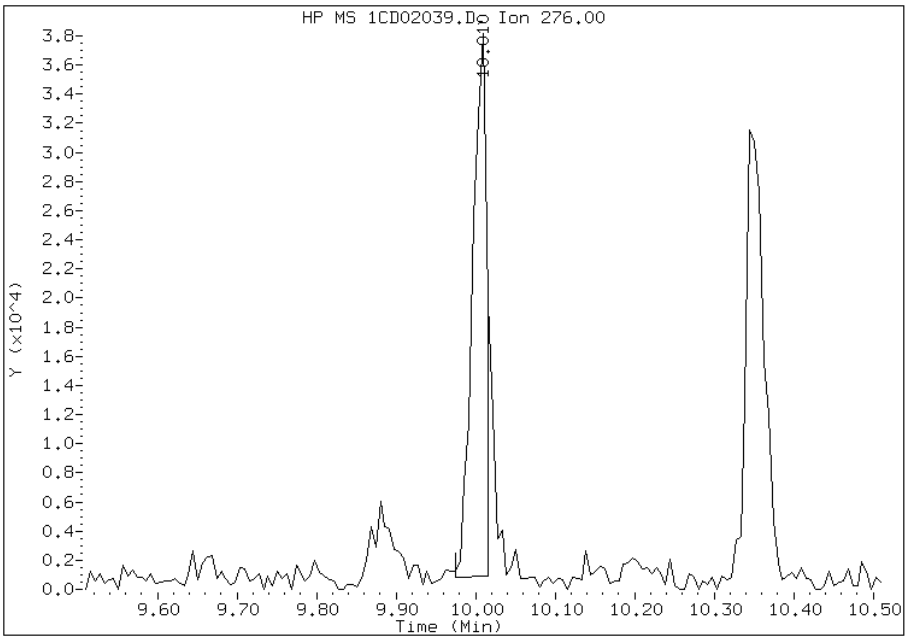
Manual Integration Results

RT: 10.01

Response: 46049

Amount: 2

Conc: 520



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:11
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-1

SDG No.: 68088766-1

Client Sample ID: CV0613I-CS | Lab Sample ID: 680-88766-10

Matrix: Solid | Lab File ID: 1CD02040.D

Analysis Method: 8270C LL | Date Collected: 03/25/2013 14:17

Extract. Method: 3546 | Date Extracted: 03/29/2013 10:19

Sample wt/vol: 15.05(g) | Date Analyzed: 04/03/2013 00:17

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

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

% Moisture: 24.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136079 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	71		52	6.6
120-12-7	Anthracene	120		11	5.5
56-55-3	Benzo[a]anthracene	340		10	5.1
50-32-8	Benzo[a]pyrene	320		14	6.8
205-99-2	Benzo[b]fluoranthene	670		16	8.0
191-24-2	Benzo[g,h,i]perylene	260		26	5.8
207-08-9	Benzo[k]fluoranthene	250		10	4.7
218-01-9	Chrysene	340		12	5.9
53-70-3	Dibenz(a,h)anthracene	87		26	5.4
206-44-0	Fluoranthene	420		26	5.2
86-73-7	Fluorene	22	J	26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	270		26	9.3
90-12-0	1-Methylnaphthalene	59		52	5.8
91-57-6	2-Methylnaphthalene	76		52	9.3
91-20-3	Naphthalene	87		52	5.8
85-01-8	Phenanthrene	220		10	5.1
129-00-0	Pyrene	410		26	4.9

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1CD02040.D
Lab Smp Id: 680-88766-A-10-A Client Smp ID: CV0613I-CS
Inj Date : 03-APR-2013 00:17
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88766-a-10-a
Misc Info : 680-88766-A-10-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 16:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 39
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	15.050	Weight Extracted
M	24.000	% 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	3.715	3.710	(1.000)	693655	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	561980	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	1065582	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	85315	5.63055	492.2673
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	1170707	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	1107482	40.0000	
2 Naphthalene	128	3.727	3.721	(1.003)	17756	0.99661	87.1315
3 2-Methylnaphthalene	142	4.151	4.151	(1.117)	10518	0.86726	75.8224
4 1-Methylnaphthalene	142	4.215	4.216	(1.135)	7350	0.67352	58.8848
5 Acenaphthylene	152	4.715	4.710	(0.983)	19000	0.81689	71.4188
9 Fluorene	166	5.139	5.139	(1.071)	4812	0.25057	21.9065
11 Phenanthrene	178	5.762	5.763	(1.003)	76707	2.47165	216.0913
12 Anthracene	178	5.798	5.798	(1.009)	41953	1.33353	116.5878
13 Carbazole	167	5.904	5.904	(1.028)	15459	0.57355	50.1441

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.598	6.598	(1.148)	166342	4.85331	424.3146
16 Pyrene	202	6.768	6.762	(0.881)	152224	4.69400	410.3864
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	127486	3.89393	340.4383
19 Chrysene	228	7.703	7.704	(1.002)	128368	3.84796	336.4187
20 Benzo(b)fluoranthene	252	8.521	8.521	(0.962)	239384	7.64574	668.4509(M)
21 Benzo(k)fluoranthene	252	8.533	8.545	(0.963)	87035	2.87416	251.2817(QM)
22 Benzo(a)pyrene	252	8.803	8.809	(0.993)	107721	3.65439	319.4958
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.015	(1.129)	87404	3.12183	272.9349(M)
25 Dibenzo(a,h)anthracene	278	10.027	10.027	(1.131)	25712	0.99415	86.9165
26 Benzo(g,h,i)perylene	276	10.362	10.356	(1.169)	85006	2.97484	260.0840

QC Flag Legend

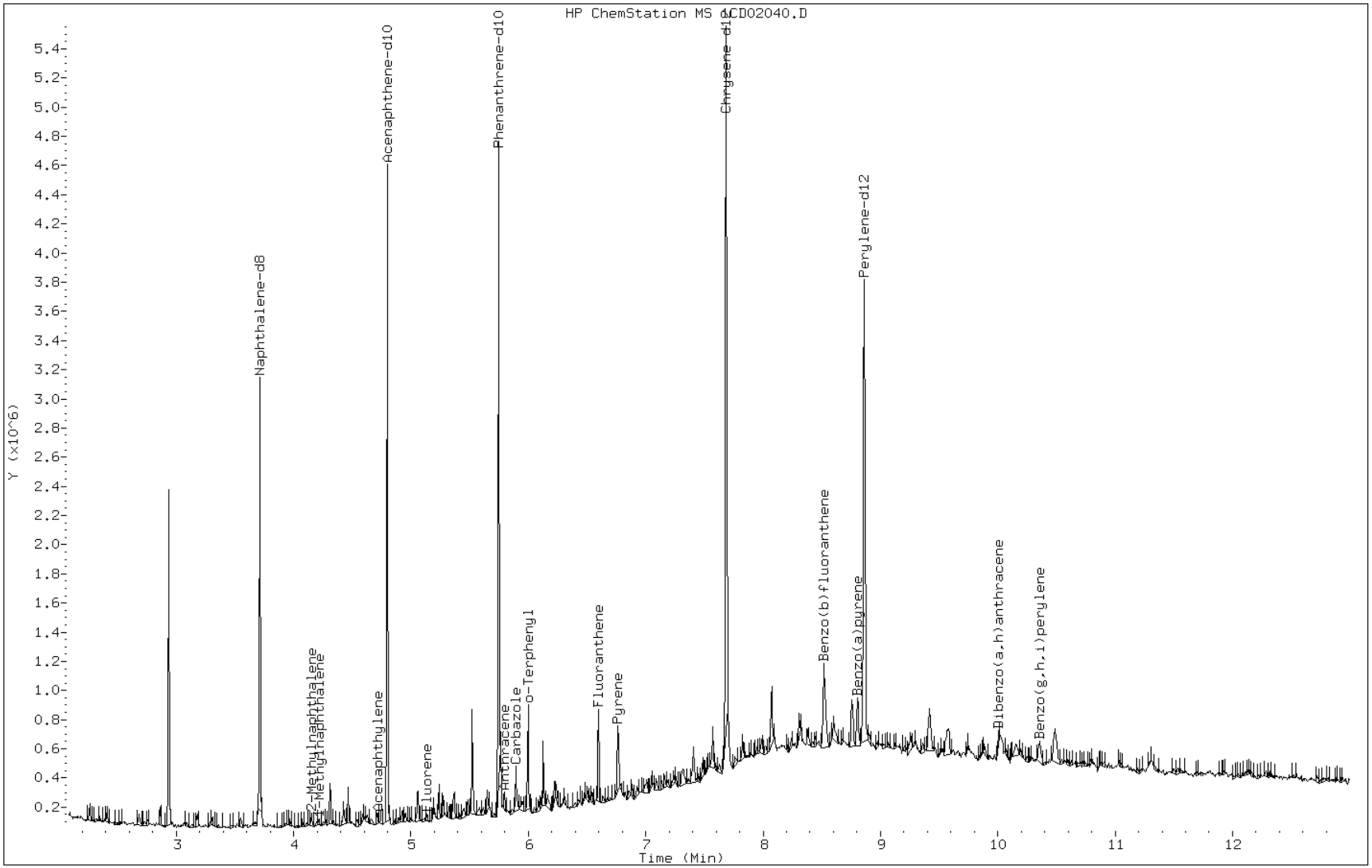
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD02040.D

Date: 03-APR-2013 00:17

Client ID: CV0613I-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-10-a Operator: SCC



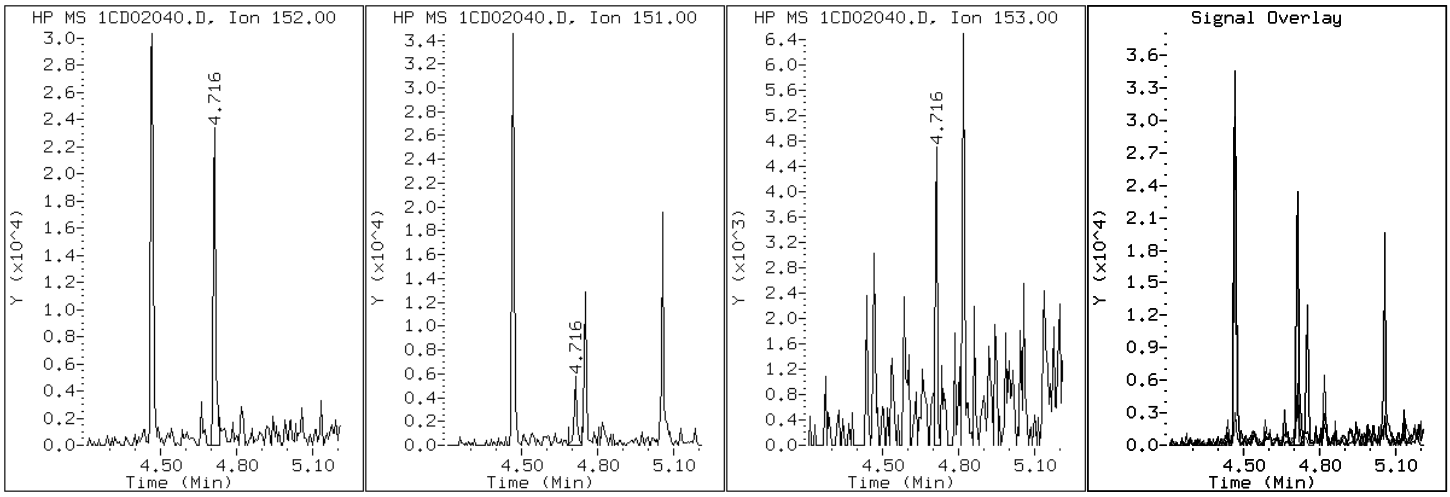
Data File: 1CD02040.D

Date: 03-APR-2013 00:17

Client ID: CV0613I-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-10-a Operator: SCC

5 Acenaphthylene



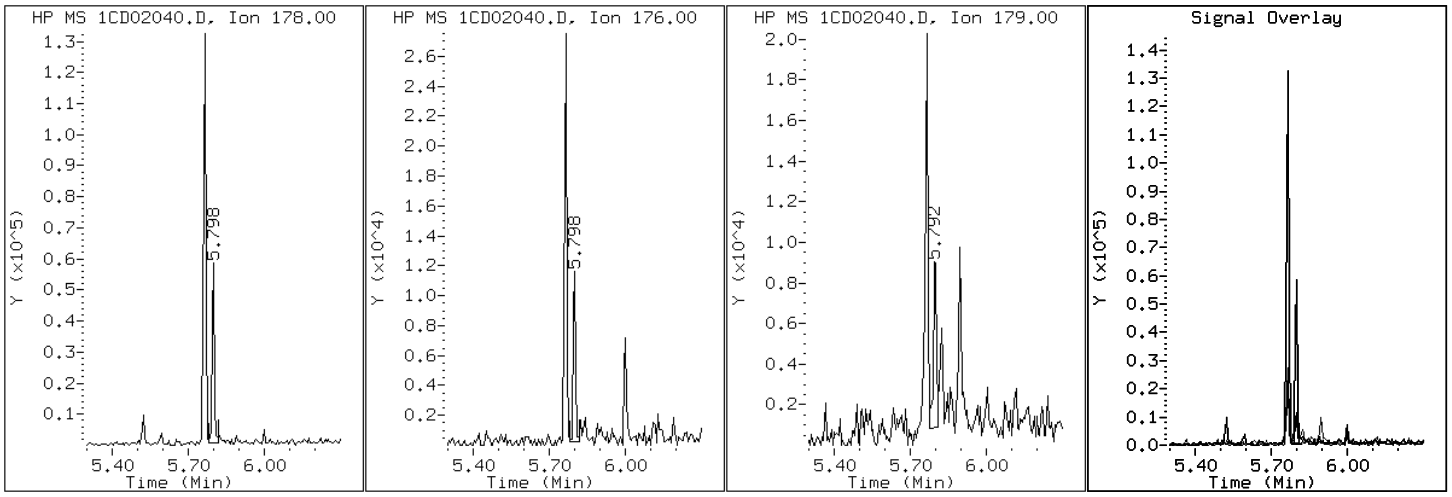
Data File: 1CD02040.D

Date: 03-APR-2013 00:17

Client ID: CV0613I-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-10-a Operator: SCC

12 Anthracene



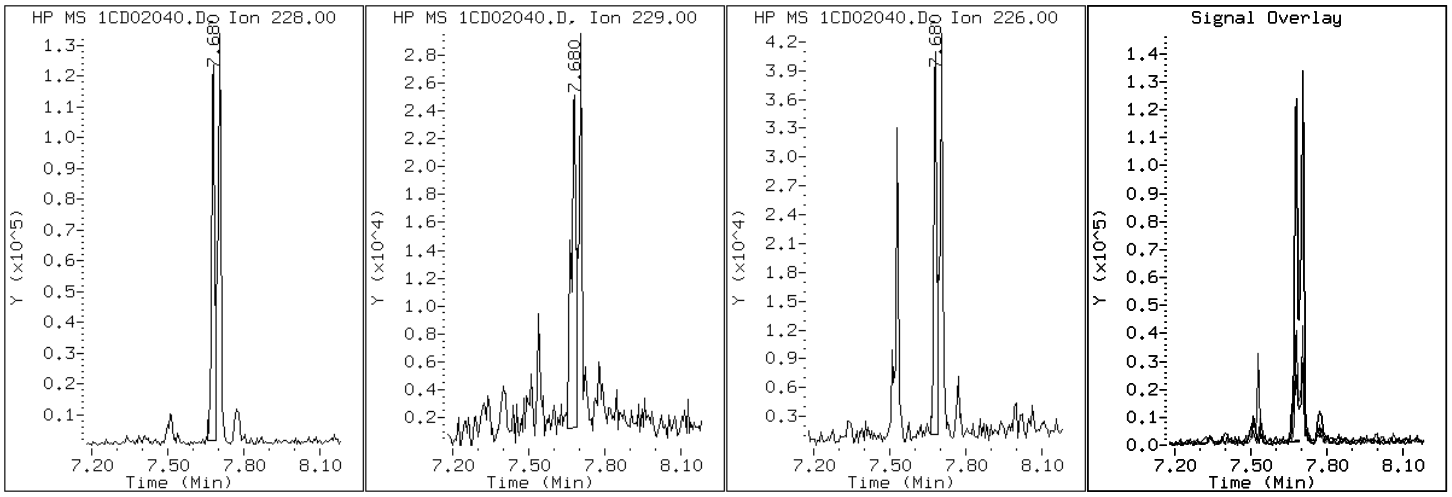
Data File: 1CD02040.D

Date: 03-APR-2013 00:17

Client ID: CV0613I-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-10-a Operator: SCC

17 Benzo(a)anthracene



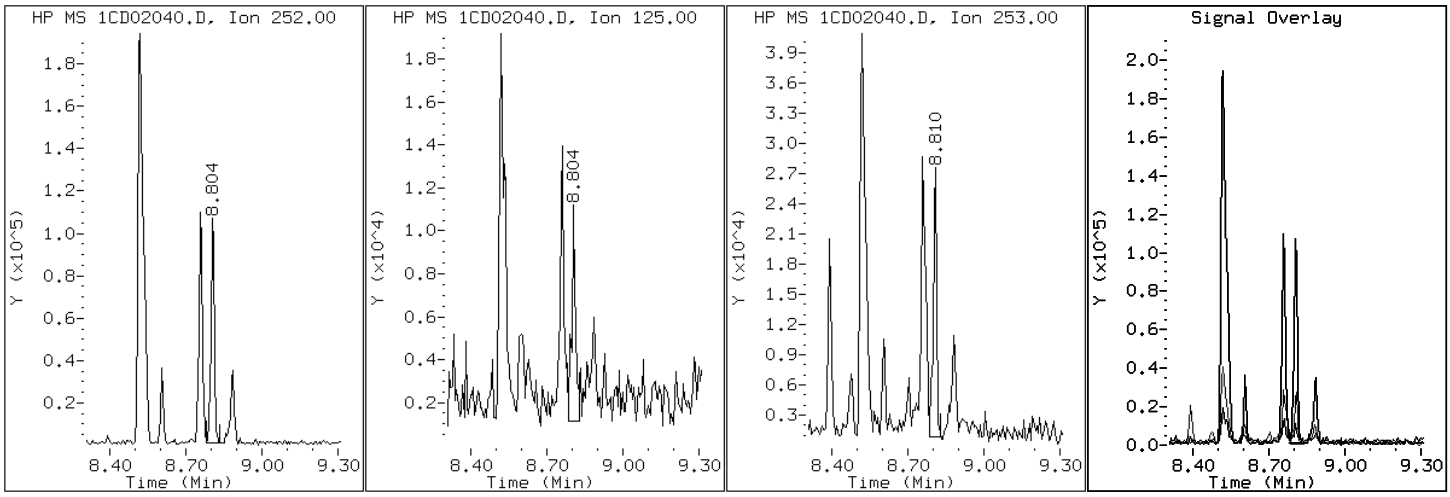
Data File: 1CD02040.D

Date: 03-APR-2013 00:17

Client ID: CV0613I-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-10-a Operator: SCC

22 Benzo(a)pyrene



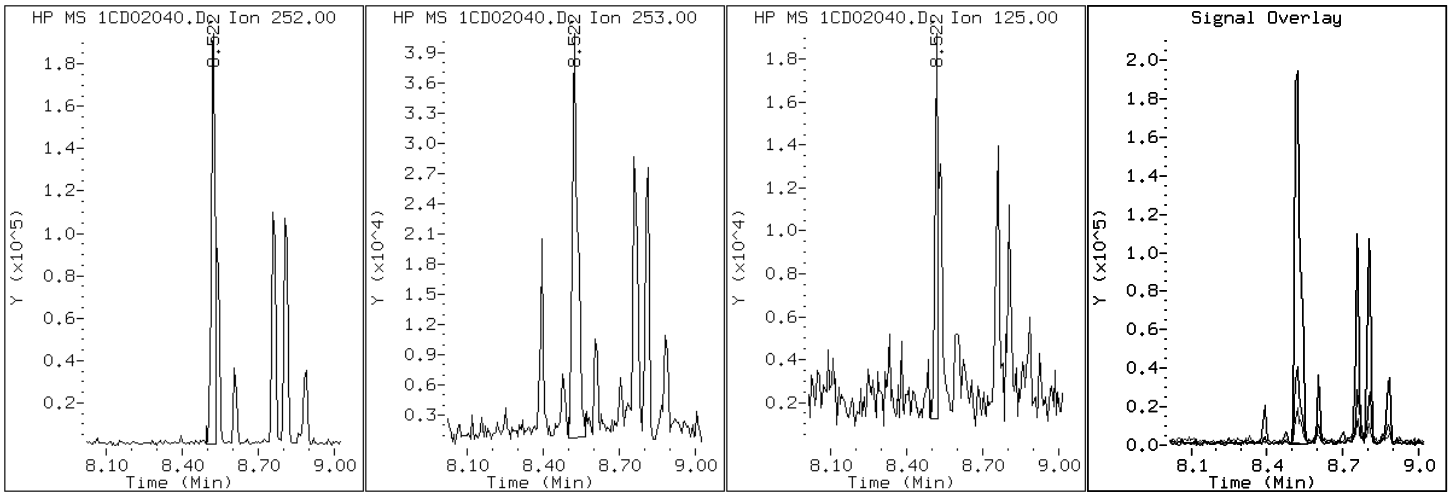
Data File: 1CD02040.D

Date: 03-APR-2013 00:17

Client ID: CV0613I-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-10-a Operator: SCC

20 Benzo(b)fluoranthene



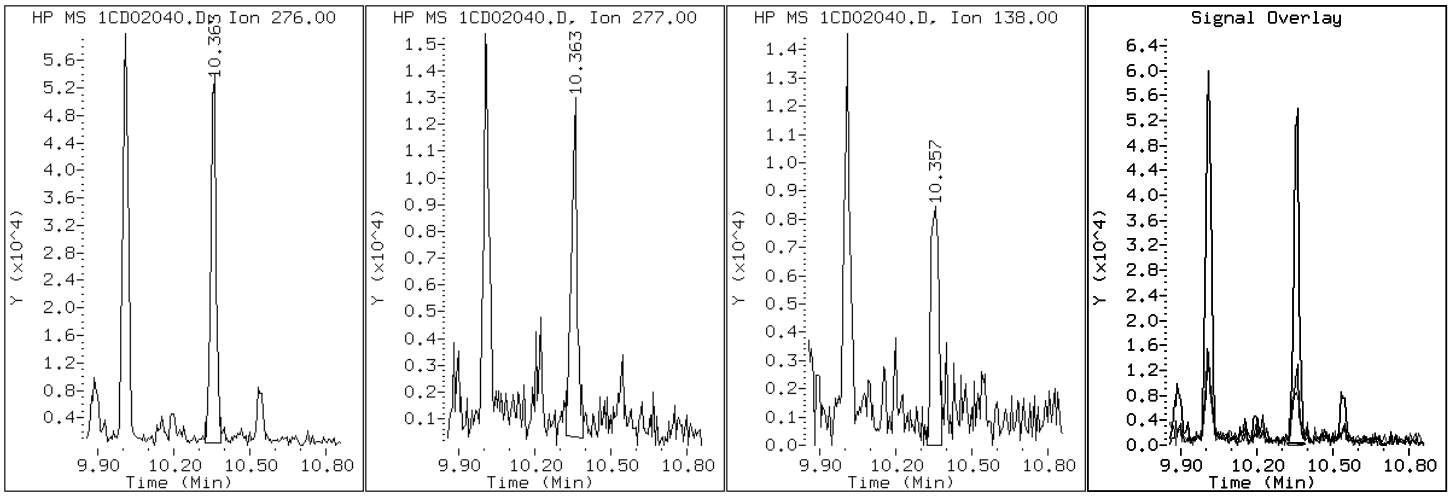
Data File: 1CD02040.D

Date: 03-APR-2013 00:17

Client ID: CV0613I-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-10-a Operator: SCC

26 Benzo(g,h,i)perylene



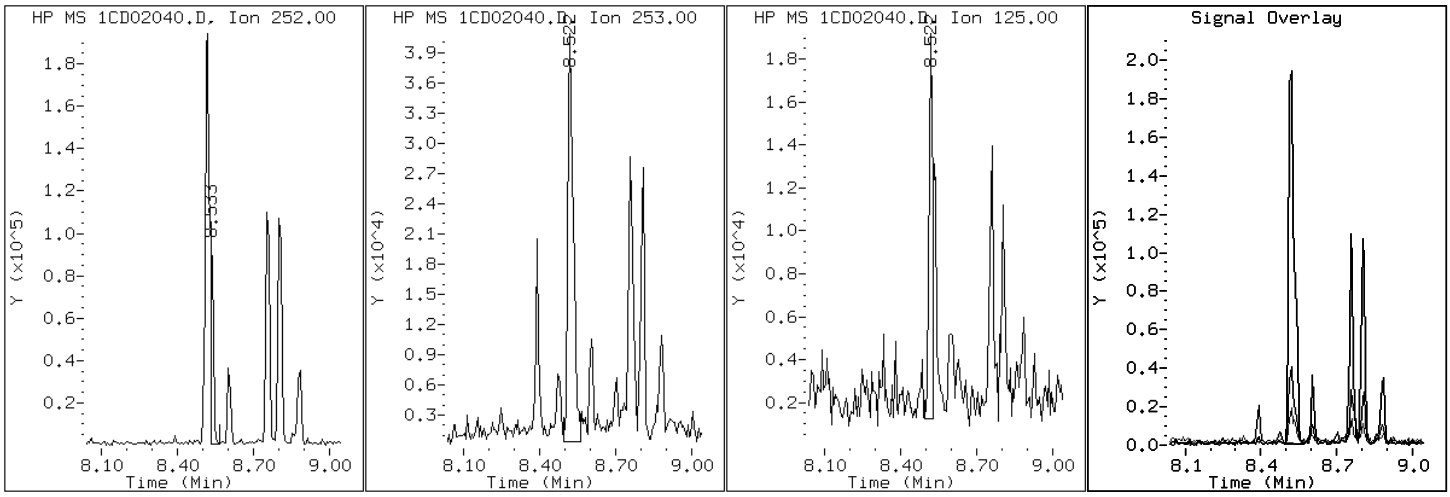
Data File: 1CD02040.D

Date: 03-APR-2013 00:17

Client ID: CV0613I-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-10-a Operator: SCC

21 Benzo(k)fluoranthene



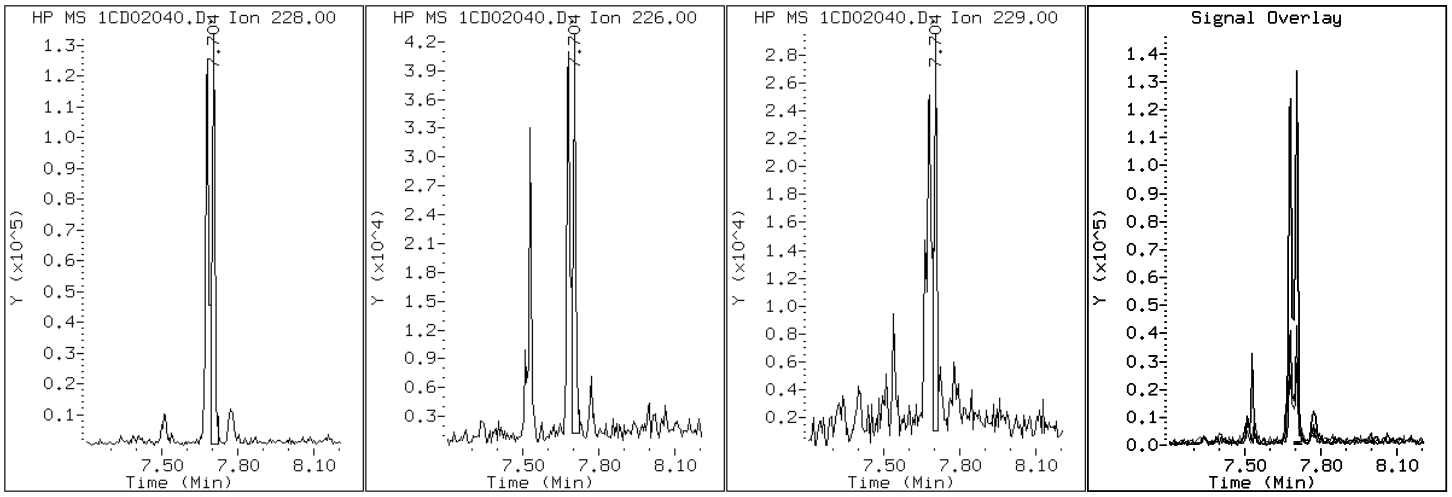
Data File: 1CD02040.D

Date: 03-APR-2013 00:17

Client ID: CV0613I-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-10-a Operator: SCC

19 Chrysene



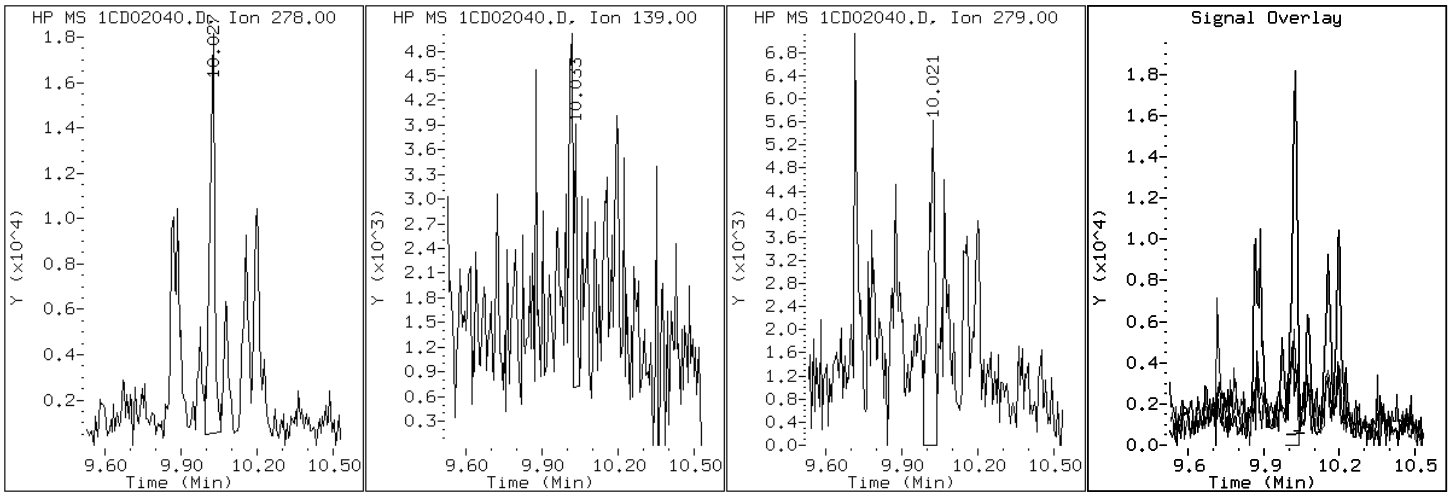
Data File: 1CD02040.D

Date: 03-APR-2013 00:17

Client ID: CV0613I-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-10-a Operator: SCC

25 Dibenzo(a,h)anthracene



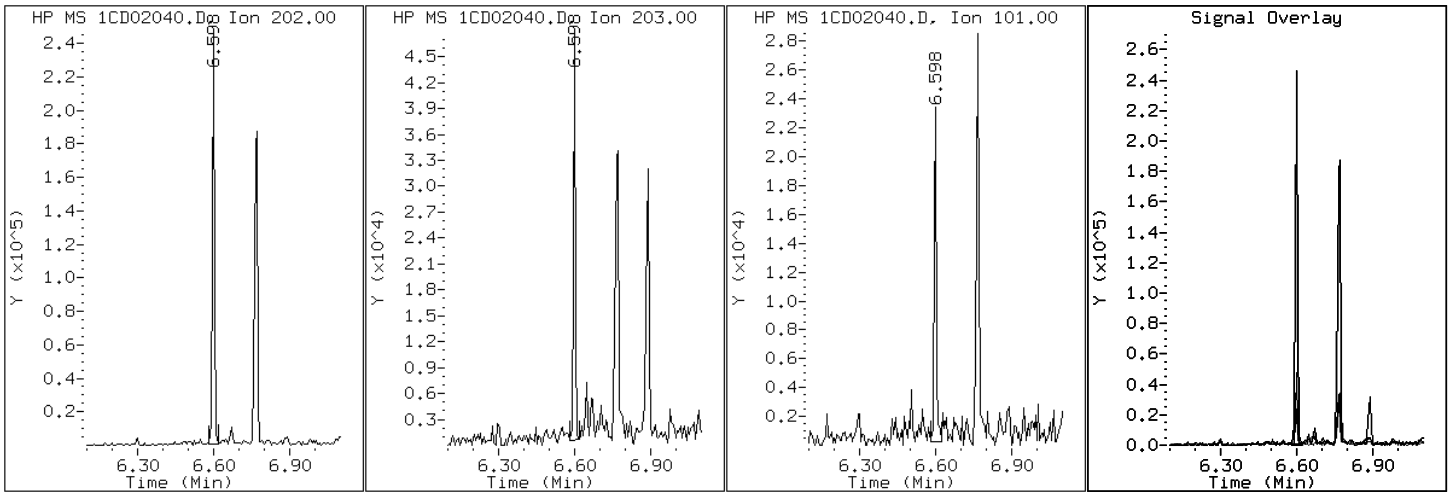
Data File: 1CD02040.D

Date: 03-APR-2013 00:17

Client ID: CV0613I-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-10-a Operator: SCC

15 Fluoranthene



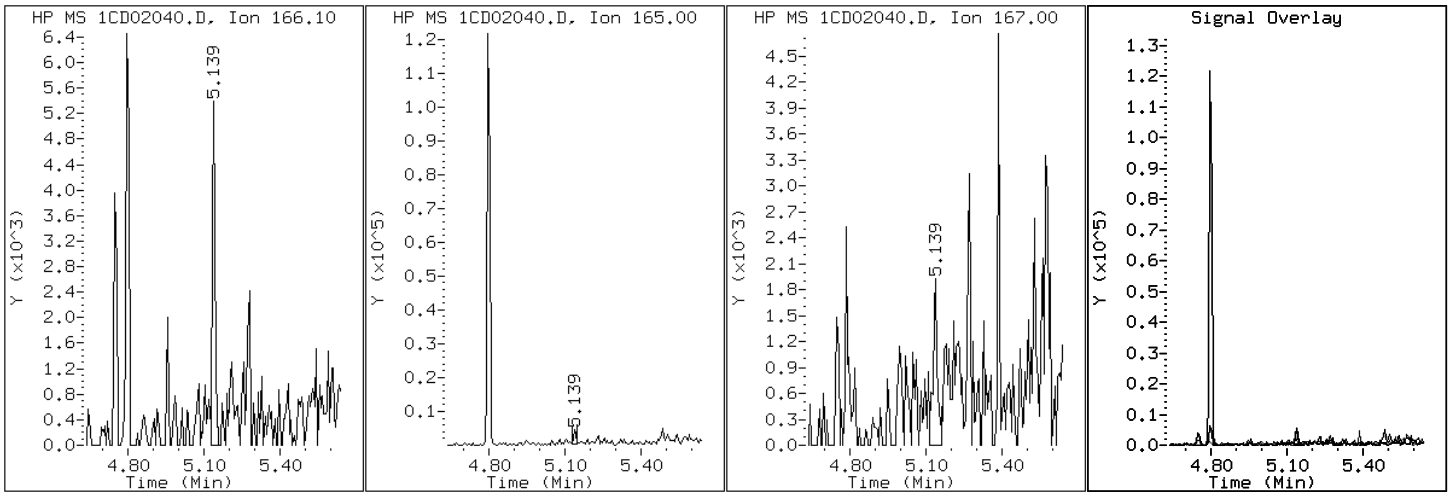
Data File: 1CD02040.D

Date: 03-APR-2013 00:17

Client ID: CV0613I-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-10-a Operator: SCC

9 Fluorene



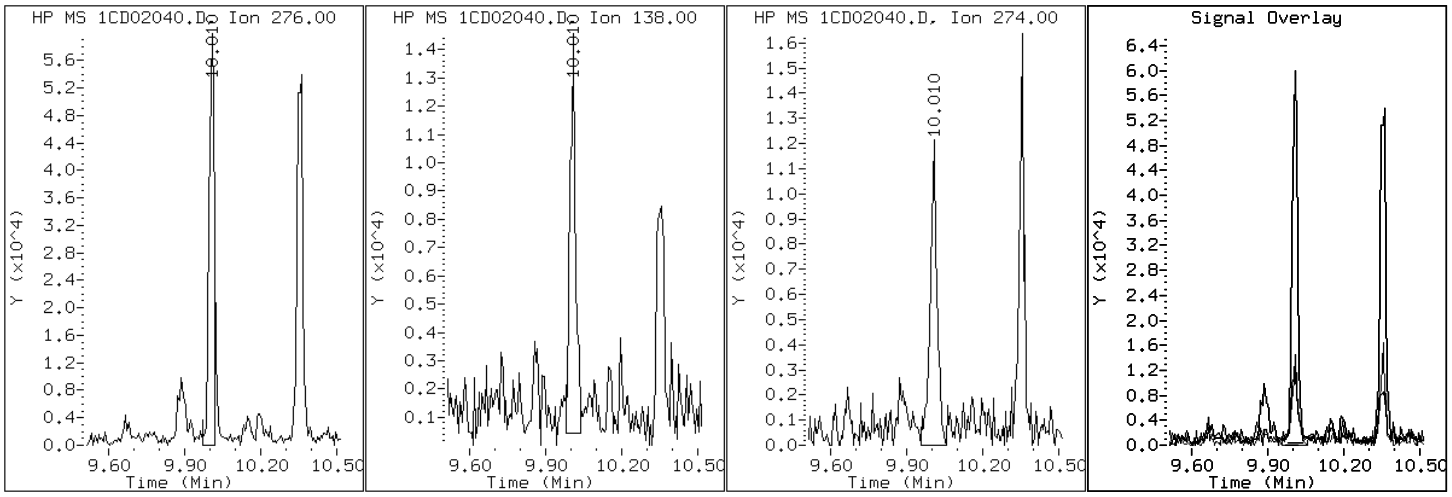
Data File: 1CD02040.D

Date: 03-APR-2013 00:17

Client ID: CV0613I-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-10-a Operator: SCC

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



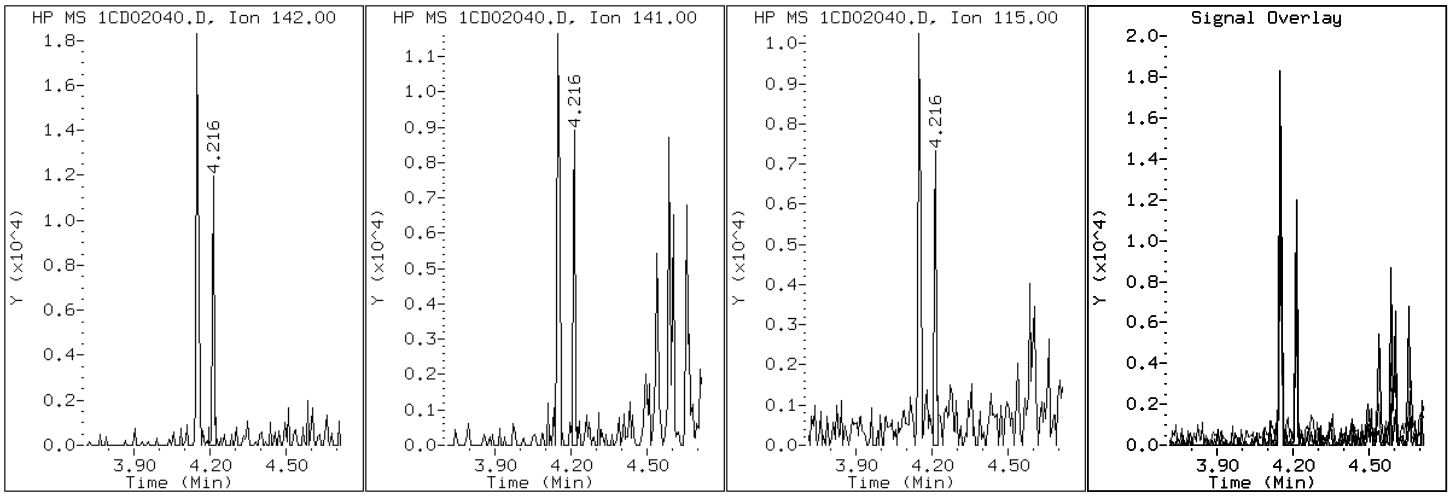
Data File: 1CD02040.D

Date: 03-APR-2013 00:17

Client ID: CV0613I-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-10-a Operator: SCC

4 1-Methylnaphthalene



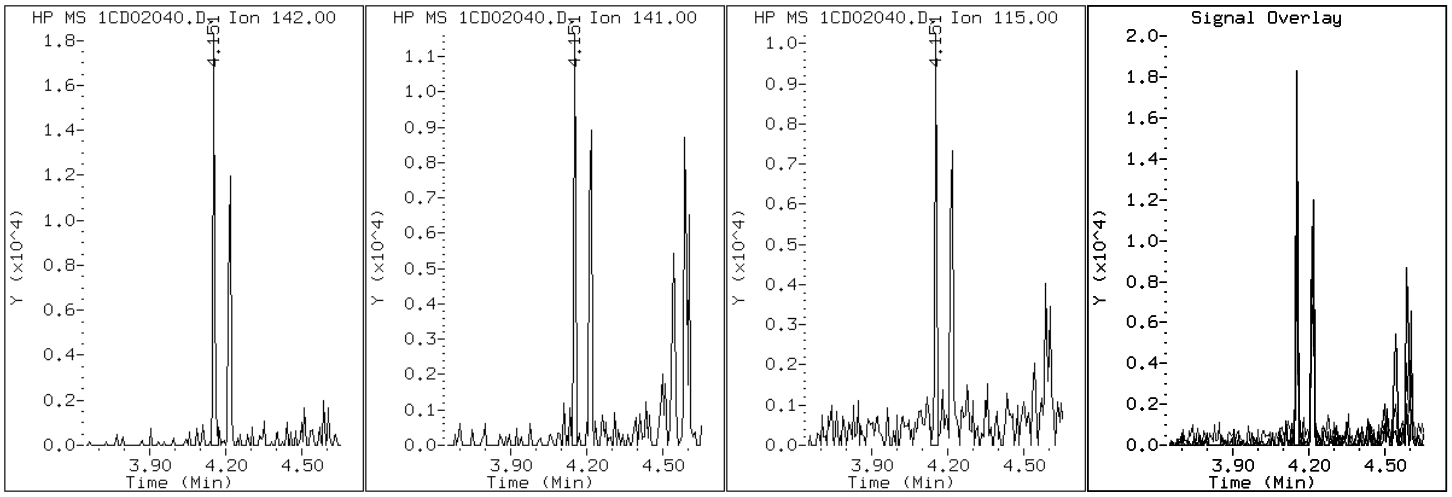
Data File: 1CD02040.D

Date: 03-APR-2013 00:17

Client ID: CV0613I-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-10-a Operator: SCC

3 2-Methylnaphthalene



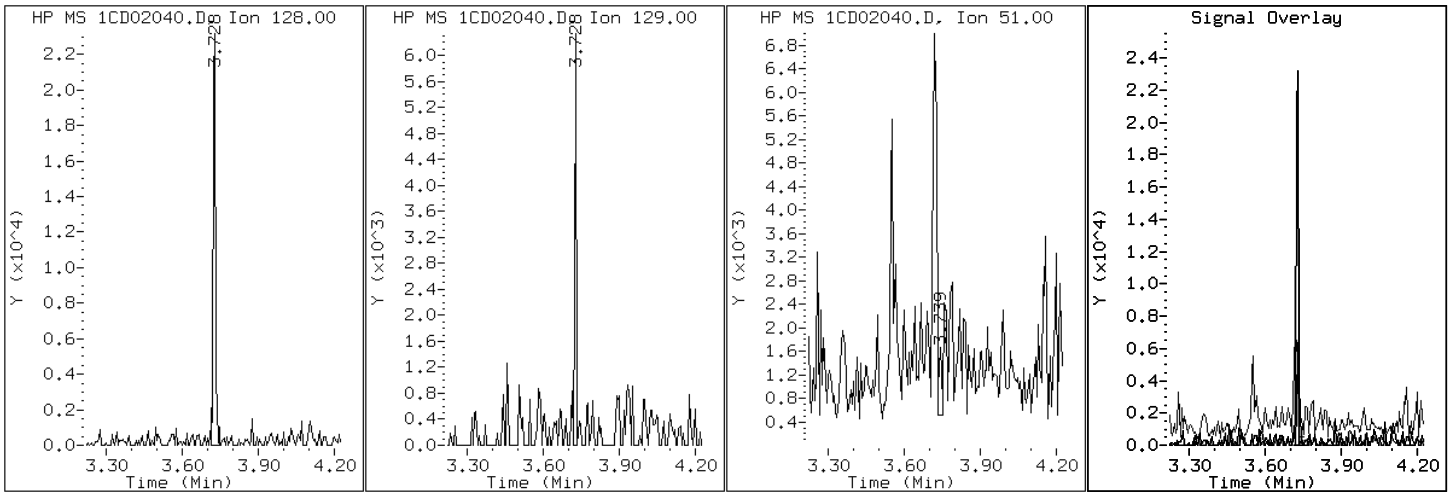
Data File: 1CD02040.D

Date: 03-APR-2013 00:17

Client ID: CV0613I-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-10-a Operator: SCC

2 Naphthalene



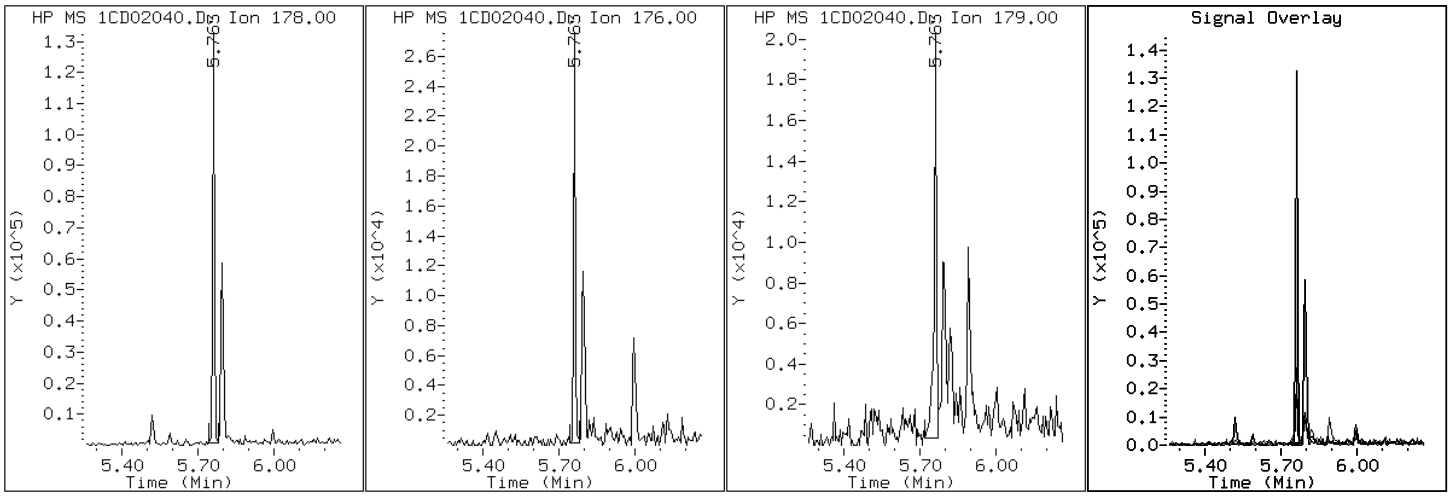
Data File: 1CD02040.D

Date: 03-APR-2013 00:17

Client ID: CV0613I-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-10-a Operator: SCC

11 Phenanthrene



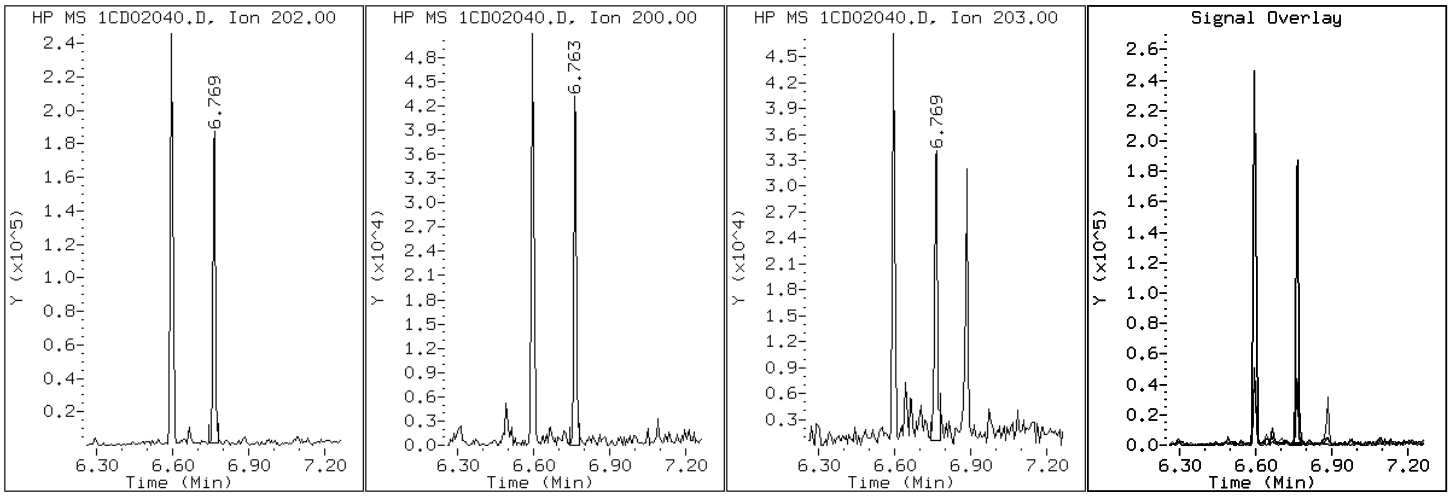
Data File: 1CD02040.D

Date: 03-APR-2013 00:17

Client ID: CV0613I-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-10-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD02040.D
Inj. Date and Time: 03-APR-2013 00:17
Instrument ID: BSMC5973.i
Client ID: CV0613I-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

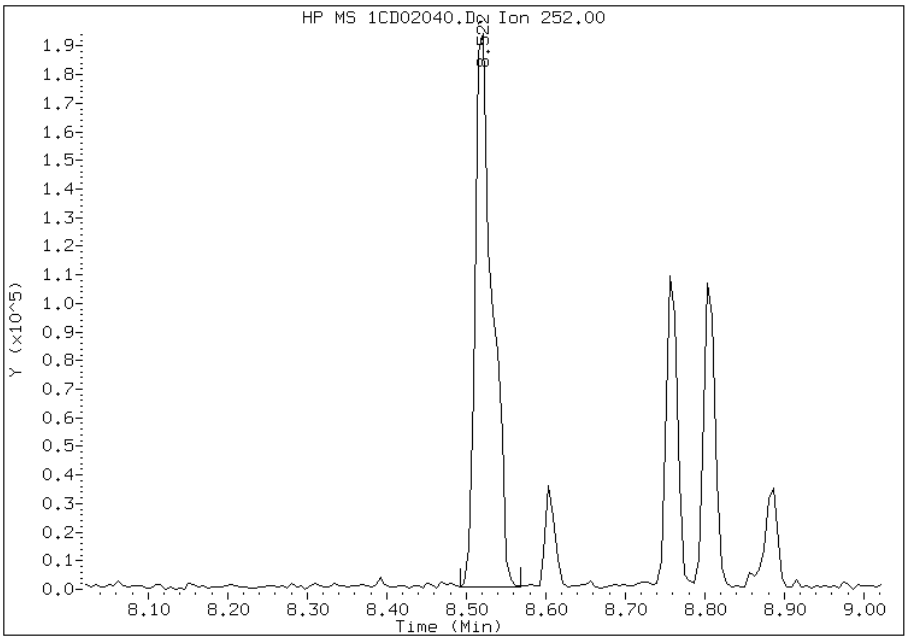
Processing Integration Results

RT: 8.52

Response: 292075

Amount: 9

Conc: 816



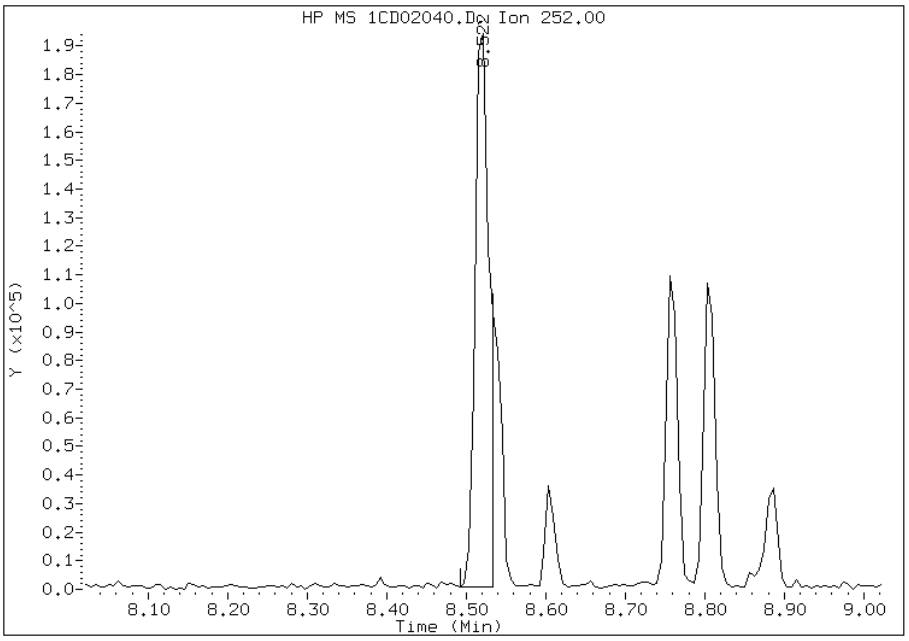
Manual Integration Results

RT: 8.52

Response: 239384

Amount: 8

Conc: 668



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:11
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD02040.D
Inj. Date and Time: 03-APR-2013 00:17
Instrument ID: BSMC5973.i
Client ID: CV0613I-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

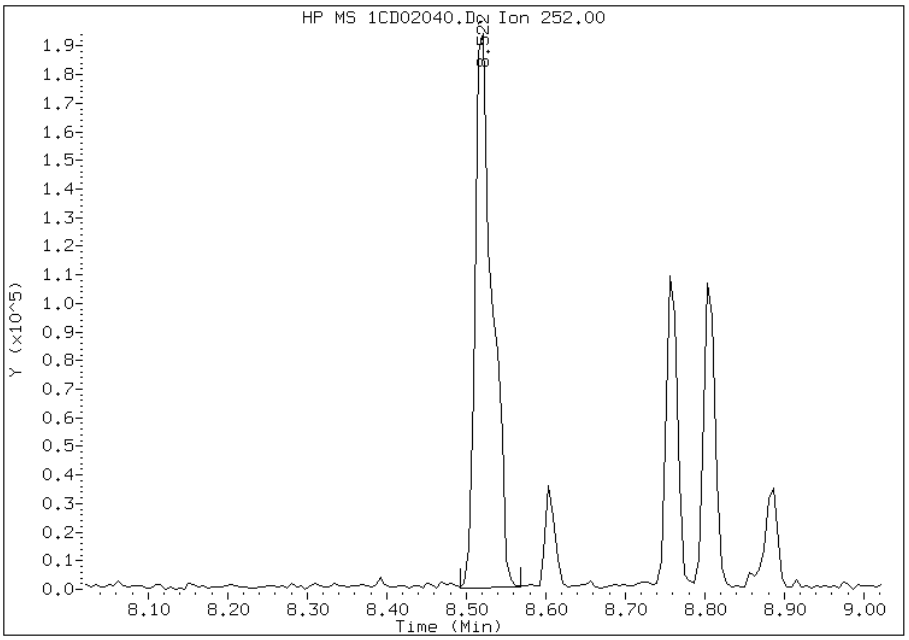
Processing Integration Results

RT: 8.52

Response: 292937

Amount: 10

Conc: 846



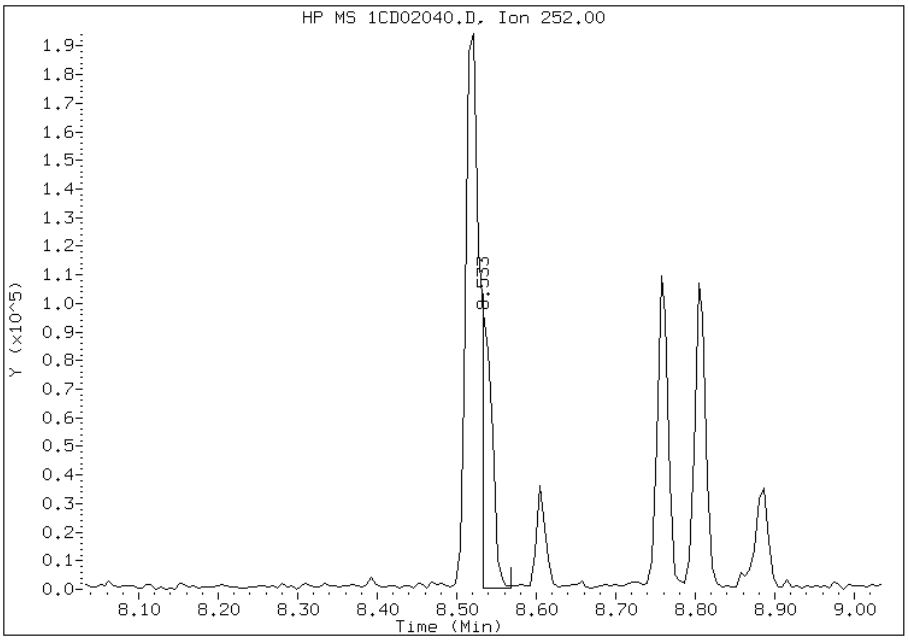
Manual Integration Results

RT: 8.53

Response: 87035

Amount: 3

Conc: 251



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD02040.D
Inj. Date and Time: 03-APR-2013 00:17
Instrument ID: BSMC5973.i
Client ID: CV0613I-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

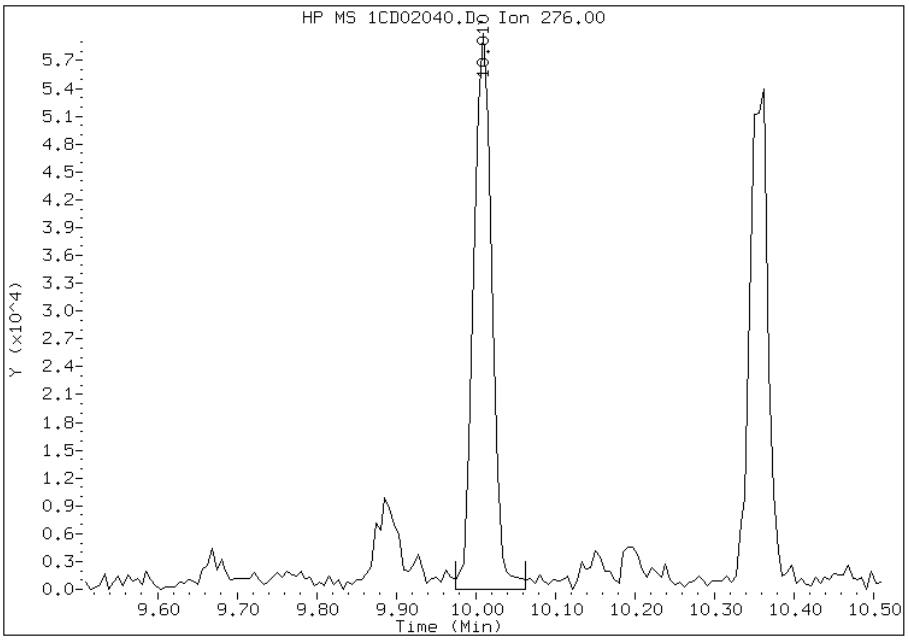
Processing Integration Results

RT: 10.01

Response: 95506

Amount: 3

Conc: 298



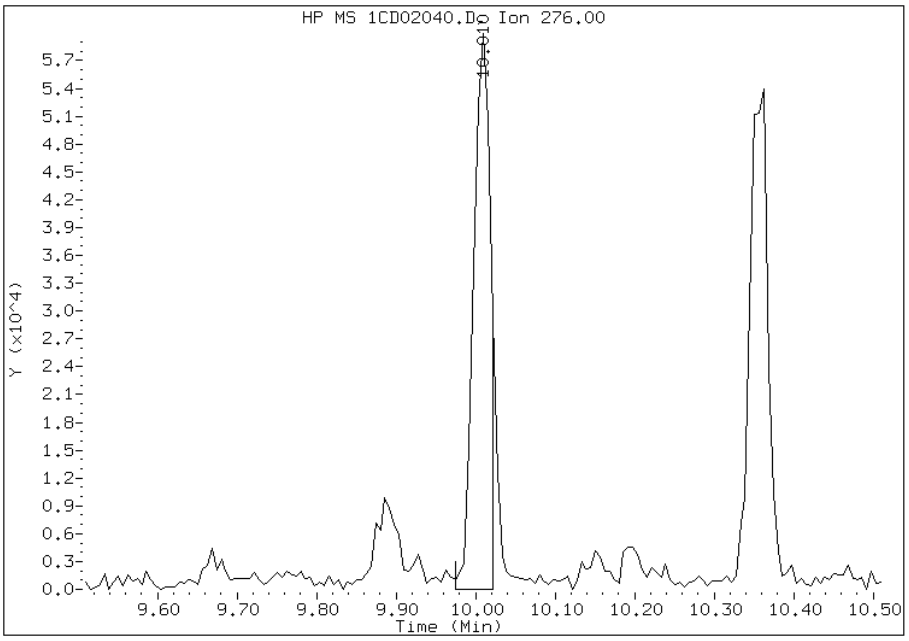
Manual Integration Results

RT: 10.01

Response: 87404

Amount: 3

Conc: 273



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:12
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-1

SDG No.: 68088766-1

Client Sample ID: CV0613J-CS | Lab Sample ID: 680-88766-11

Matrix: Solid | Lab File ID: 1CD03007.D

Analysis Method: 8270C LL | Date Collected: 03/25/2013 14:25

Extract. Method: 3546 | Date Extracted: 03/29/2013 10:19

Sample wt/vol: 14.92(g) | Date Analyzed: 04/03/2013 12:59

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

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

% Moisture: 18.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136081 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	99
208-96-8	Acenaphthylene	92	J	200	25
120-12-7	Anthracene	160		41	21
56-55-3	Benzo[a]anthracene	740		39	19
50-32-8	Benzo[a]pyrene	640		51	26
205-99-2	Benzo[b]fluoranthene	1400		60	30
191-24-2	Benzo[g,h,i]perylene	570		99	22
207-08-9	Benzo[k]fluoranthene	540		39	18
218-01-9	Chrysene	890		44	22
53-70-3	Dibenz(a,h)anthracene	190		99	20
206-44-0	Fluoranthene	1300		99	20
86-73-7	Fluorene	27	J	99	20
193-39-5	Indeno[1,2,3-cd]pyrene	380		99	35
90-12-0	1-Methylnaphthalene	80	J	200	22
91-57-6	2-Methylnaphthalene	89	J	200	35
91-20-3	Naphthalene	110	J	200	22
85-01-8	Phenanthrene	500		39	19
129-00-0	Pyrene	1100		99	18

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03007.D
Lab Smp Id: 680-88766-A-11-A Client Smp ID: CV0613J-CS
Inj Date : 03-APR-2013 12:59
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88766-a-11-a
Misc Info : 680-88766-A-11-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m
Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 7
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.920	Weight Extracted
M	18.482	% 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	3.710	3.704	(1.000)	652183	40.0000	
* 6 Acenaphthene-d10	164	4.792	4.792	(1.000)	529801	40.0000	
* 10 Phenanthrene-d10	188	5.739	5.739	(1.000)	946645	40.0000	
$ 14 o-Terphenyl	230	5.992	5.992	(1.044)	21332	2.10596	692.6112
* 18 Chrysene-d12	240	7.680	7.680	(1.000)	1102110	40.0000	
* 23 Perylene-d12	264	8.850	8.851	(1.000)	1096481	40.0000	
2 Naphthalene	128	3.721	3.722	(1.003)	5496	0.32810	107.9049
3 2-Methylnaphthalene	142	4.145	4.145	(1.117)	3082	0.27028	88.8917
4 1-Methylnaphthalene	142	4.204	4.210	(1.133)	2489	0.24259	79.7820
5 Acenaphthylene	152	4.710	4.704	(0.983)	6147	0.28034	92.1978
9 Fluorene	166	5.133	5.133	(1.071)	1467	0.08103	26.6487(Q)
11 Phenanthrene	178	5.757	5.757	(1.003)	41868	1.51857	499.4300
12 Anthracene	178	5.792	5.792	(1.009)	13310	0.47623	156.6239
13 Carbazole	167	5.898	5.898	(1.028)	7421	0.30992	101.9274

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.586	6.592	(1.148)	116781	3.83538	1261.3870
16 Pyrene	202	6.756	6.757	(0.880)	102250	3.34924	1101.5058
17 Benzo(a)anthracene	228	7.668	7.668	(0.998)	67638	2.25371	741.2062
19 Chrysene	228	7.698	7.698	(1.002)	84767	2.69913	887.6951
20 Benzo(b)fluoranthene	252	8.503	8.509	(0.961)	130846	4.22105	1388.2279(M)
21 Benzo(k)fluoranthene	252	8.527	8.533	(0.963)	49173	1.64013	539.4108(MH)
22 Benzo(a)pyrene	252	8.792	8.798	(0.993)	56622	1.94015	638.0811
24 Indeno(1,2,3-cd)pyrene	276	9.986	9.992	(1.128)	31912	1.15124	378.6237(M)
25 Dibenzo(a,h)anthracene	278	9.997	10.009	(1.130)	15046	0.58759	193.2474(M)
26 Benzo(g,h,i)perylene	276	10.333	10.339	(1.167)	48926	1.72938	568.7609

QC Flag Legend

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

Data File: 1CD03007.D

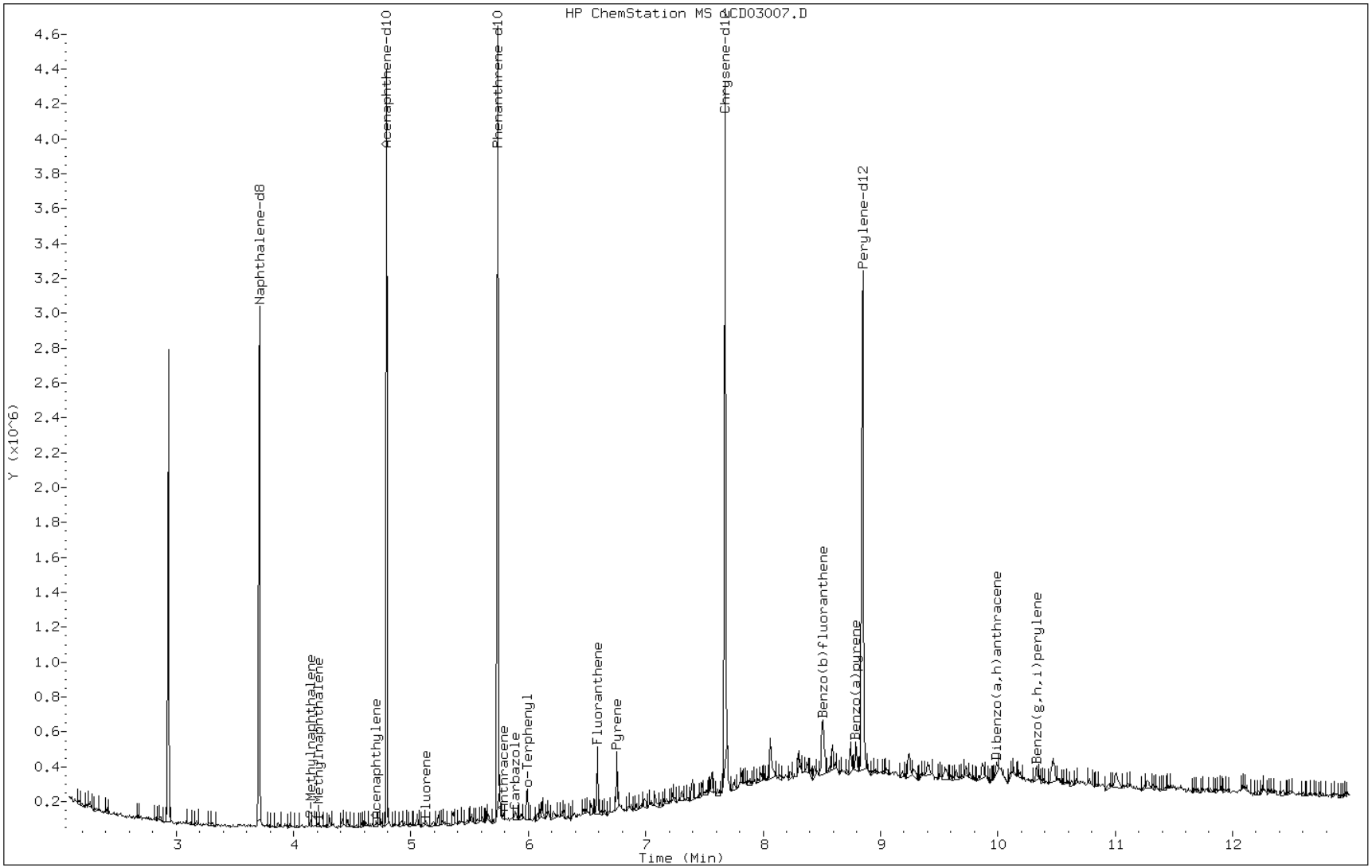
Date: 03-APR-2013 12:59

Client ID: CV0613J-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-11-a

Operator: SCC



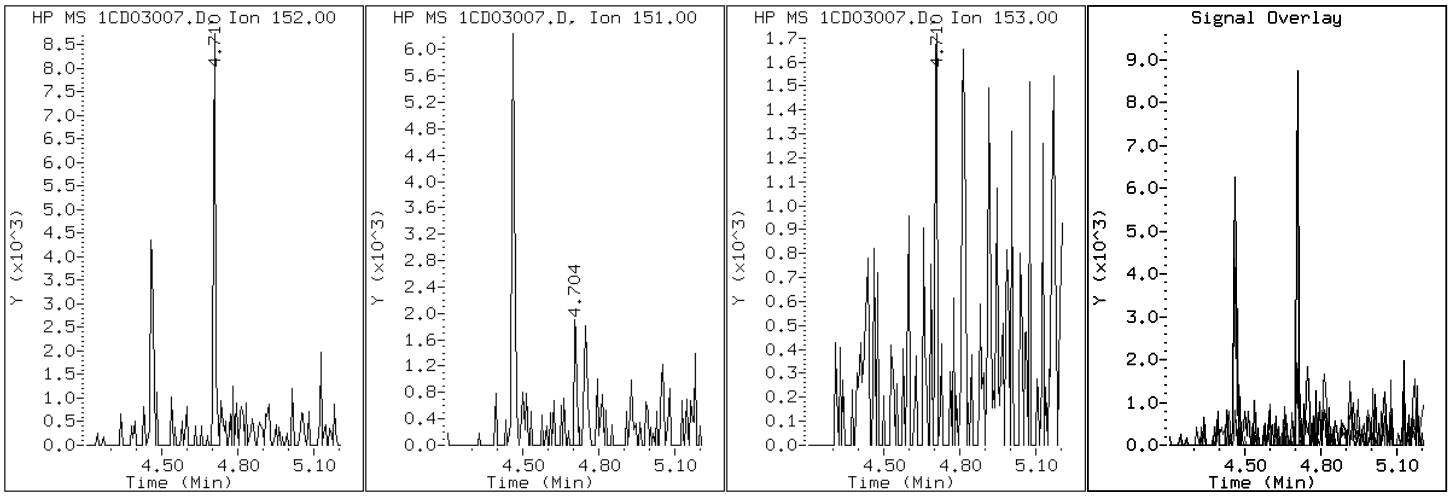
Data File: 1CD03007.D

Date: 03-APR-2013 12:59

Client ID: CV0613J-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-11-a Operator: SCC

5 Acenaphthylene



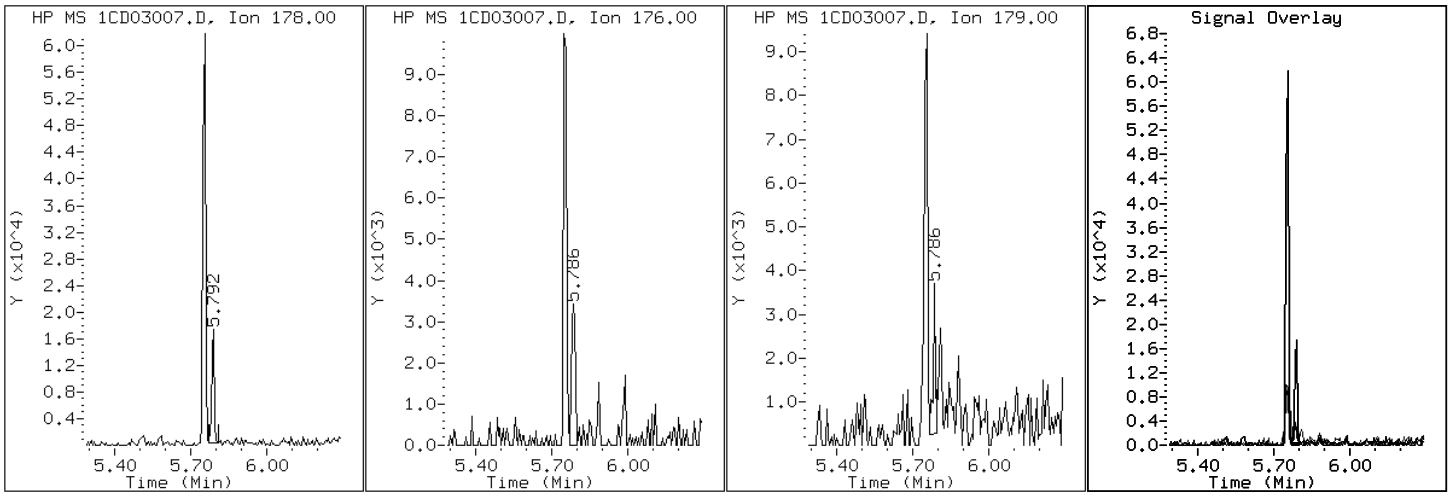
Data File: 1CD03007.D

Date: 03-APR-2013 12:59

Client ID: CV0613J-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-11-a Operator: SCC

12 Anthracene



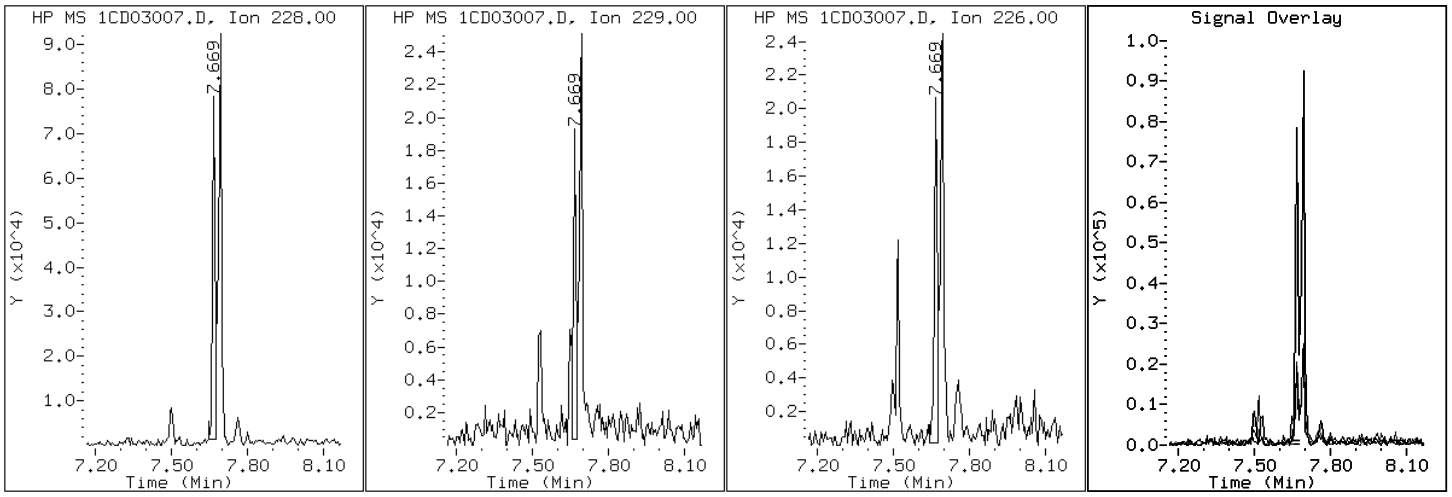
Data File: 1CD03007.D

Date: 03-APR-2013 12:59

Client ID: CV0613J-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-11-a Operator: SCC

17 Benzo(a)anthracene



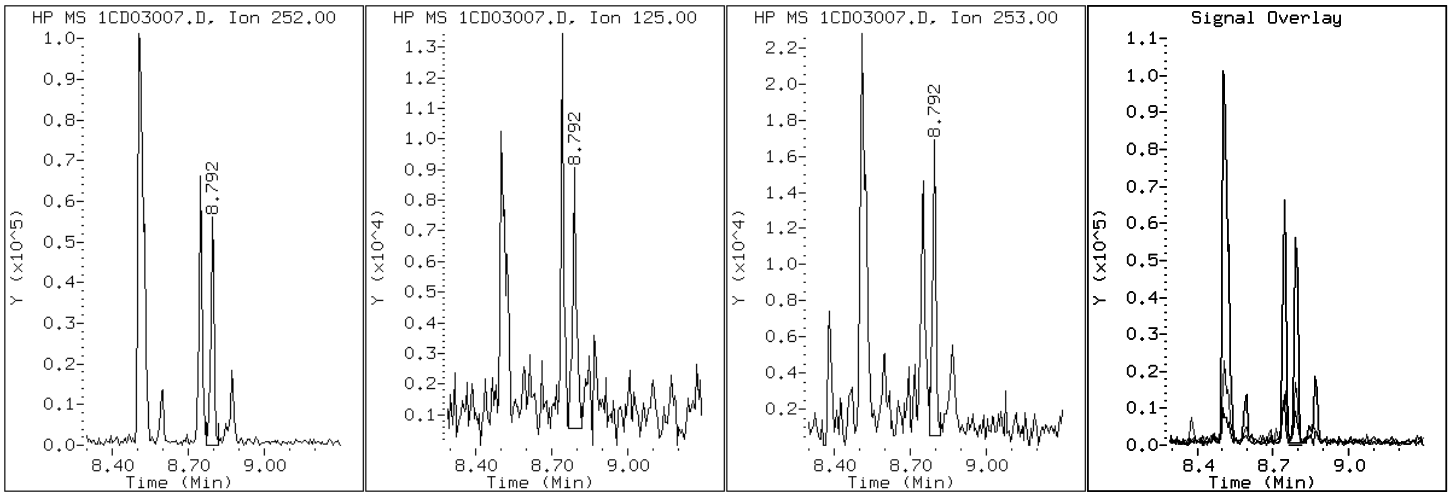
Data File: 1CD03007.D

Date: 03-APR-2013 12:59

Client ID: CV0613J-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-11-a Operator: SCC

22 Benzo(a)pyrene



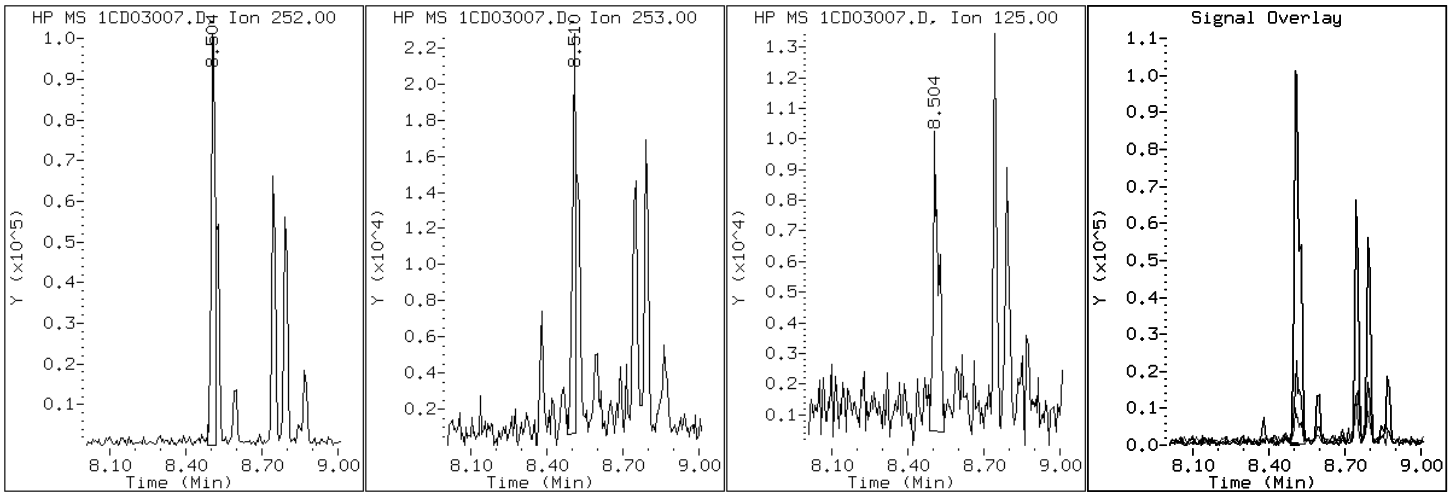
Data File: 1CD03007.D

Date: 03-APR-2013 12:59

Client ID: CV0613J-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-11-a Operator: SCC

20 Benzo(b)fluoranthene



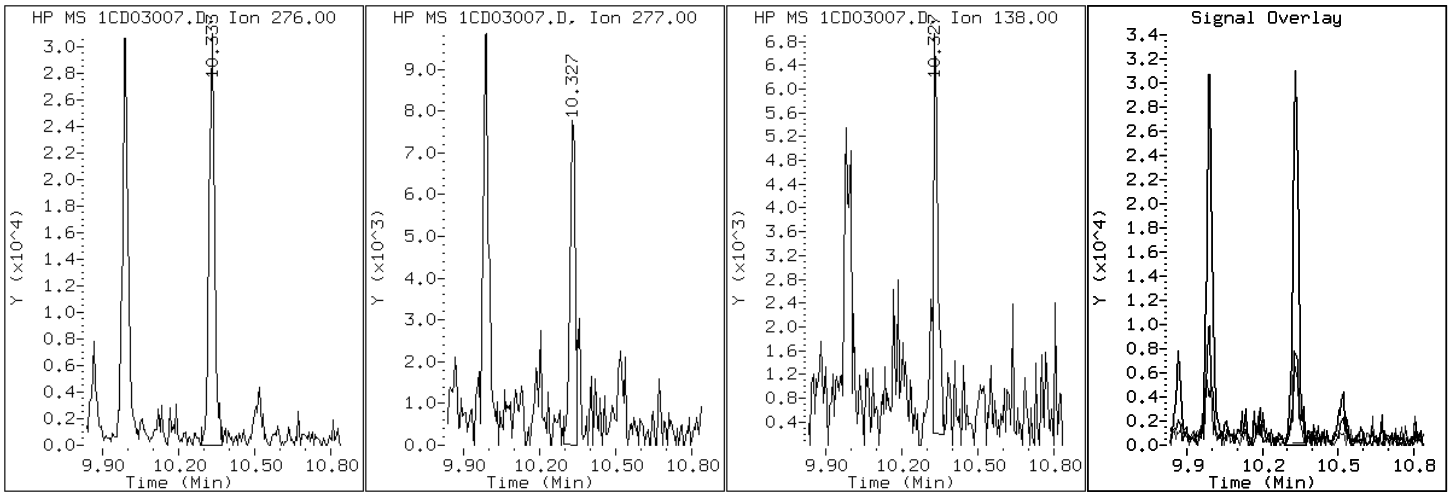
Data File: 1CD03007.D

Date: 03-APR-2013 12:59

Client ID: CV0613J-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-11-a Operator: SCC

26 Benzo(g,h,i)perylene



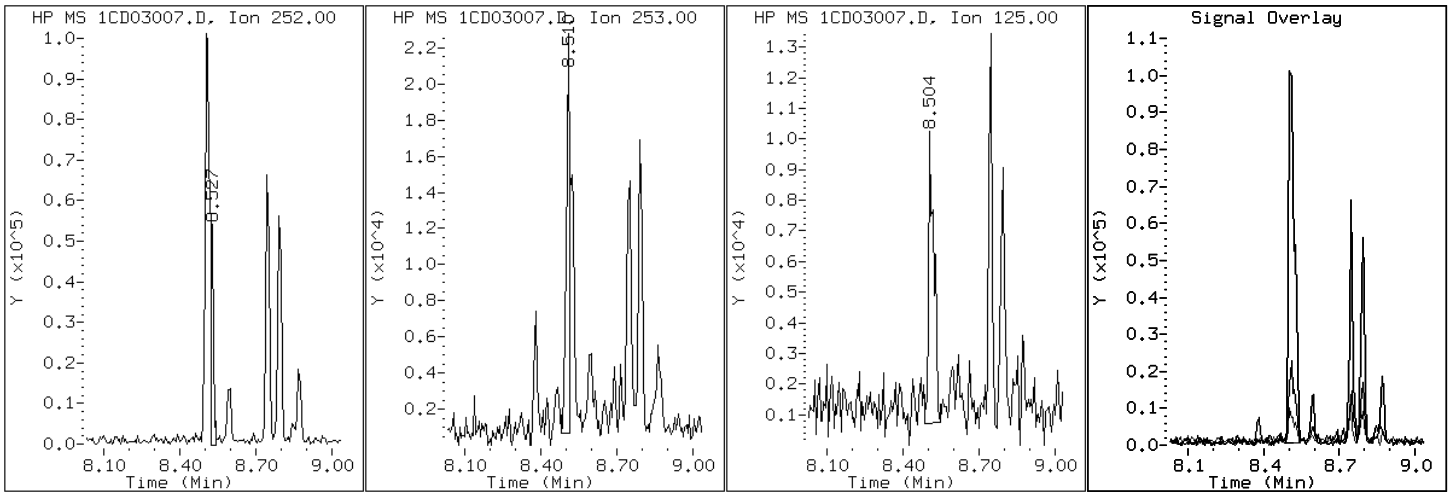
Data File: 1CD03007.D

Date: 03-APR-2013 12:59

Client ID: CV0613J-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-11-a Operator: SCC

21 Benzo(k)fluoranthene



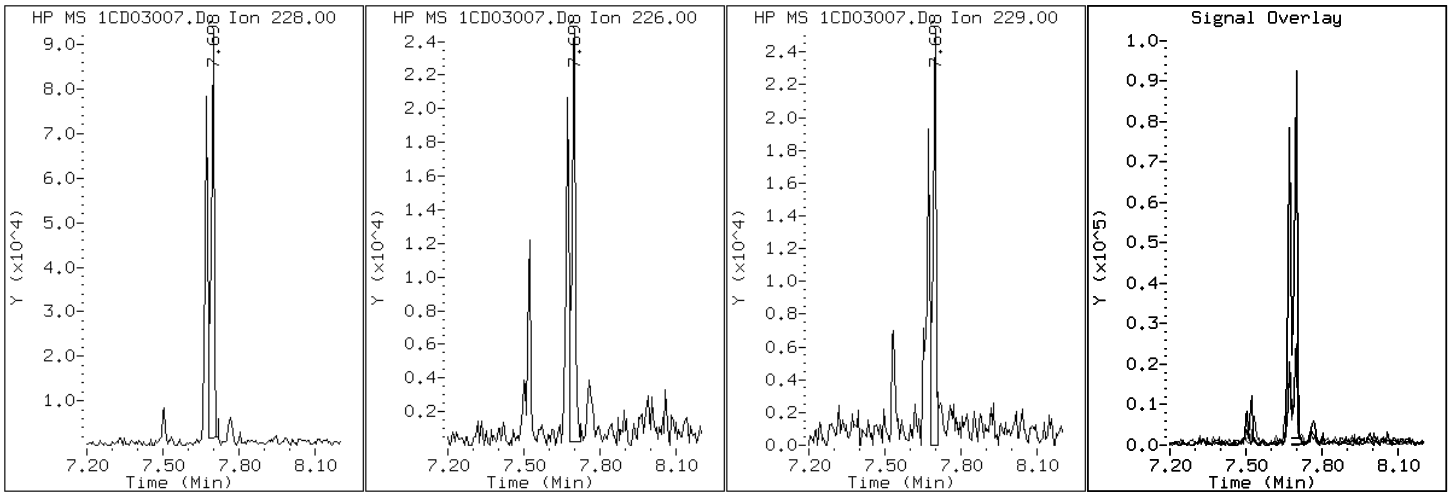
Data File: 1CD03007.D

Date: 03-APR-2013 12:59

Client ID: CV0613J-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-11-a Operator: SCC

19 Chrysene



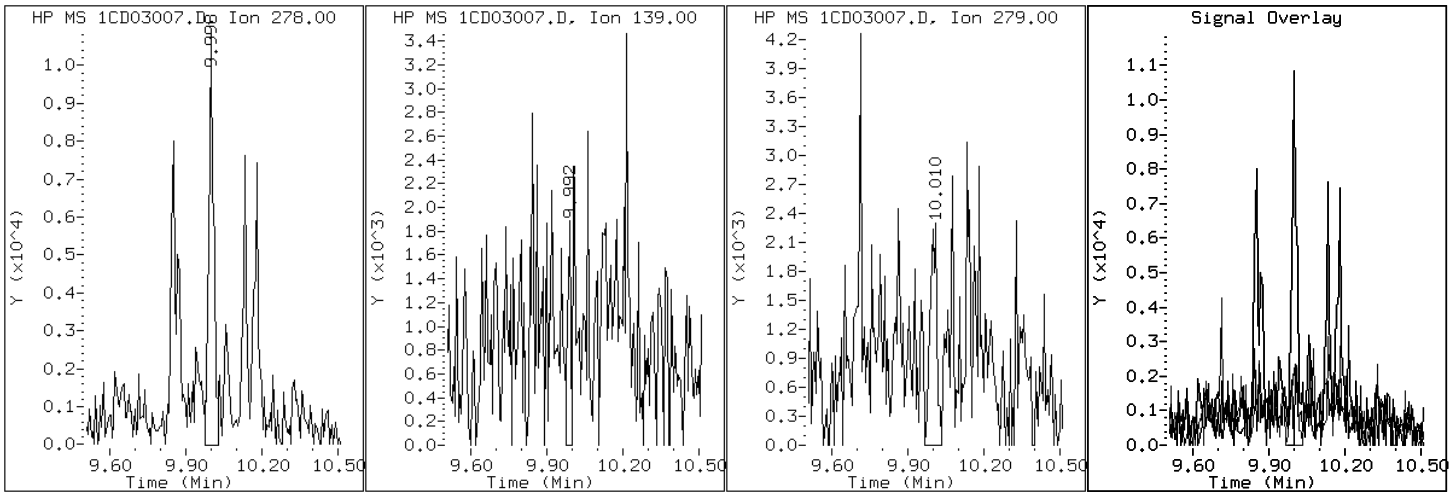
Data File: 1CD03007.D

Date: 03-APR-2013 12:59

Client ID: CV0613J-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-11-a Operator: SCC

25 Dibenzo(a,h)anthracene



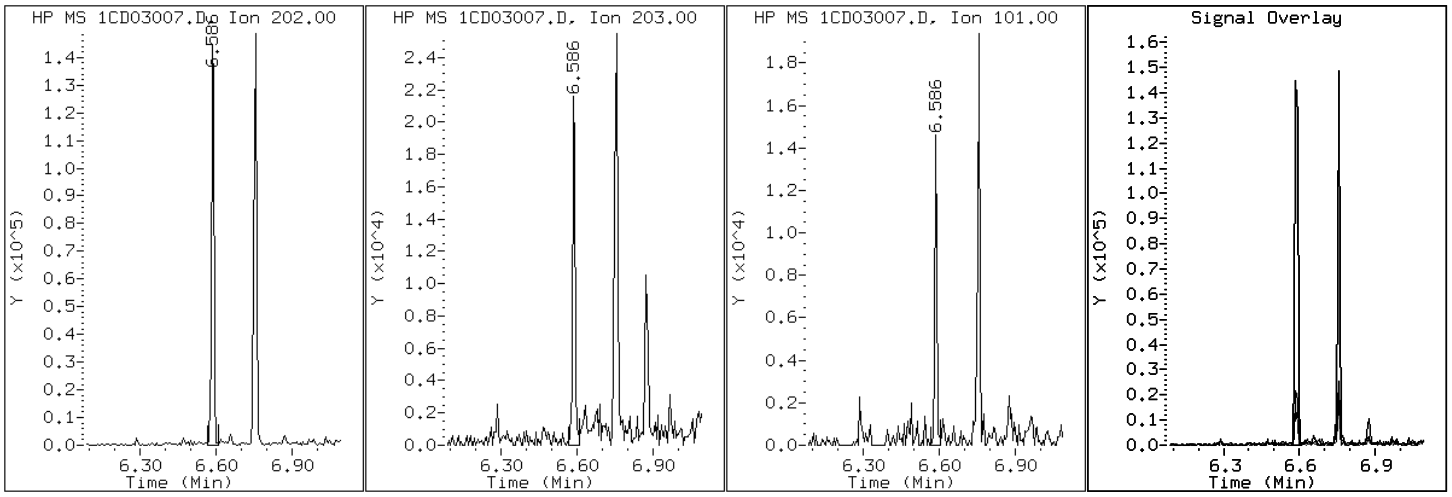
Data File: 1CD03007.D

Date: 03-APR-2013 12:59

Client ID: CV0613J-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-11-a Operator: SCC

15 Fluoranthene



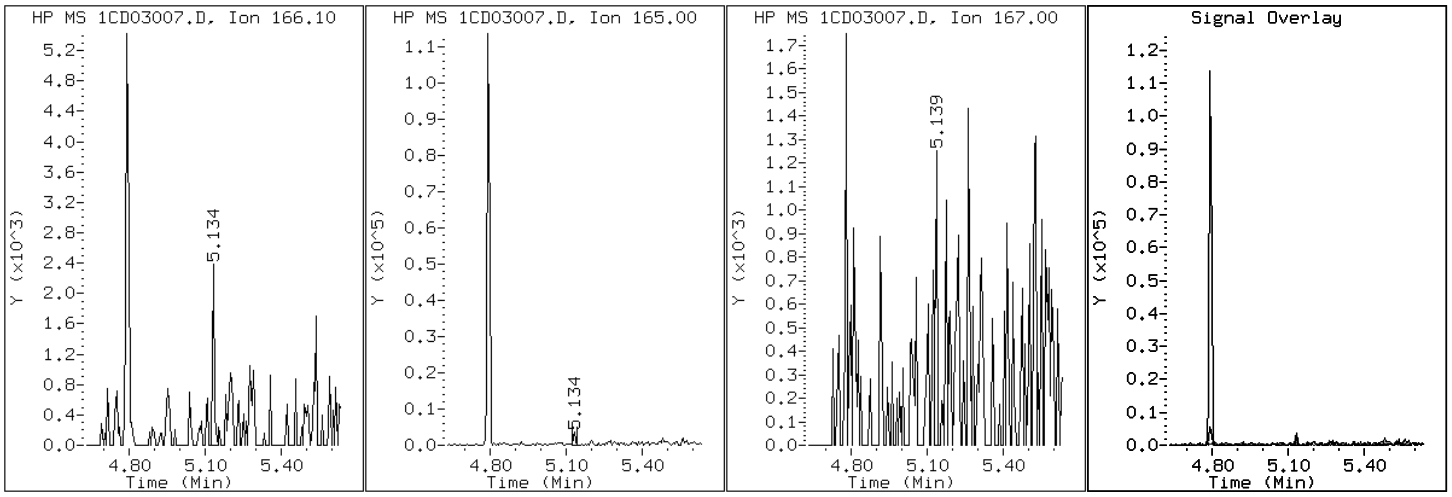
Data File: 1CD03007.D

Date: 03-APR-2013 12:59

Client ID: CV0613J-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-11-a Operator: SCC

9 Fluorene



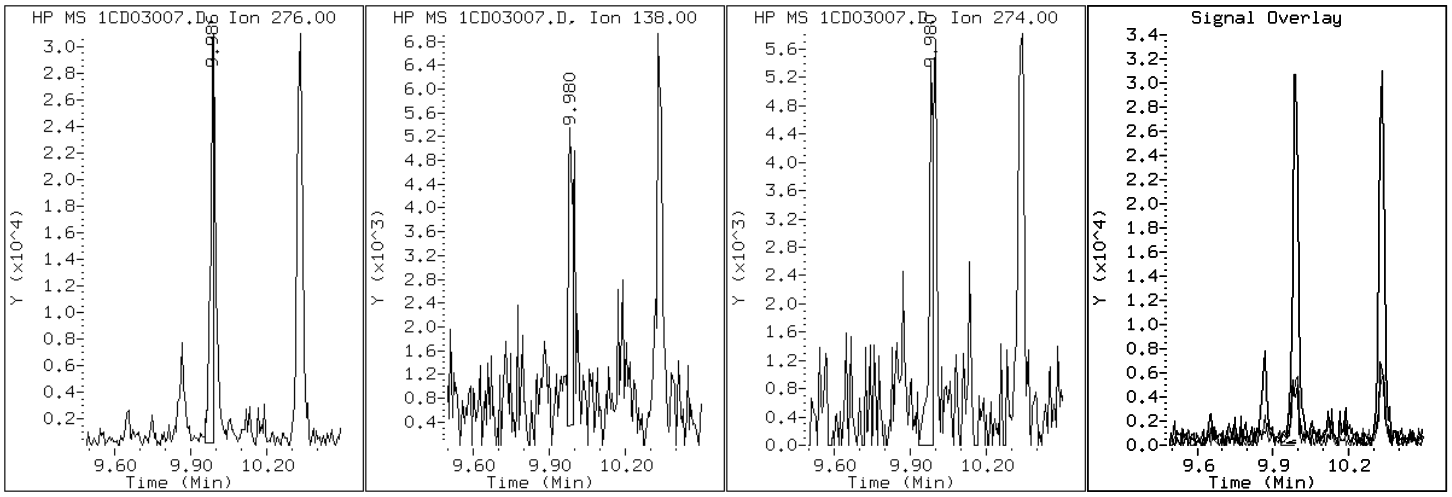
Data File: 1CD03007.D

Date: 03-APR-2013 12:59

Client ID: CV0613J-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-11-a Operator: SCC

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



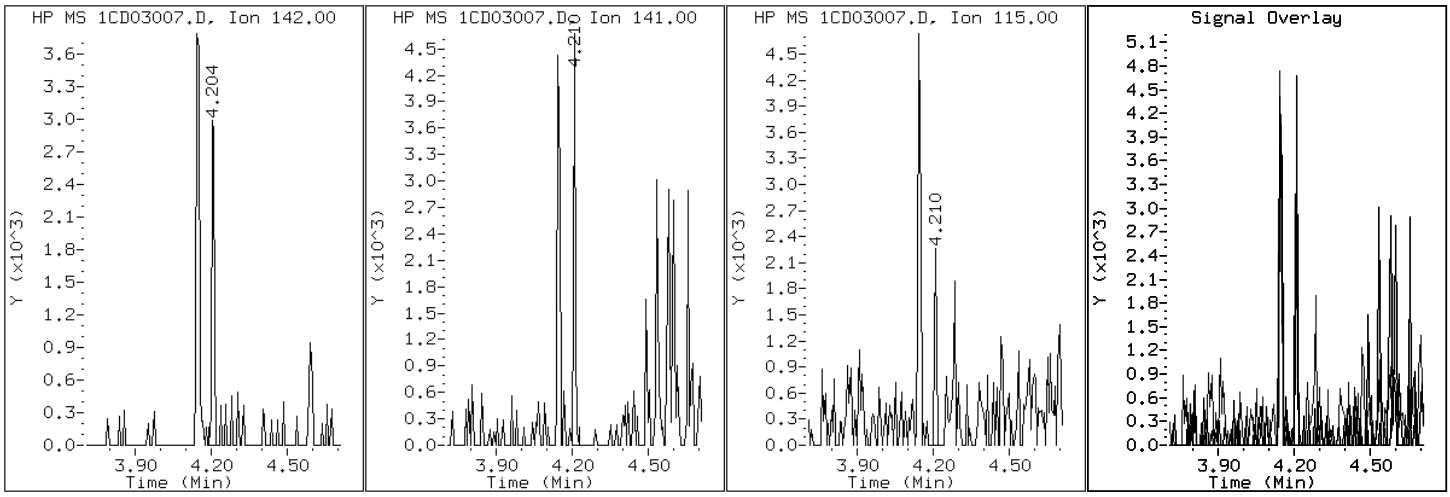
Data File: 1CD03007.D

Date: 03-APR-2013 12:59

Client ID: CV0613J-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-11-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD03007.D

Date: 03-APR-2013 12:59

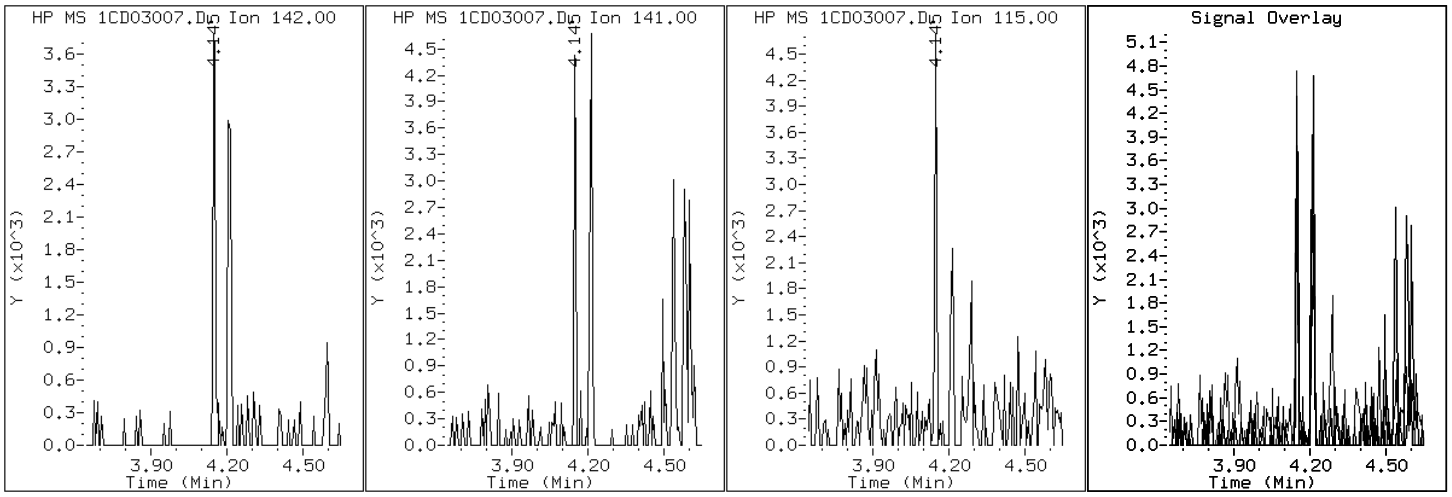
Client ID: CV0613J-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-11-a

Operator: SCC

3 2-Methylnaphthalene



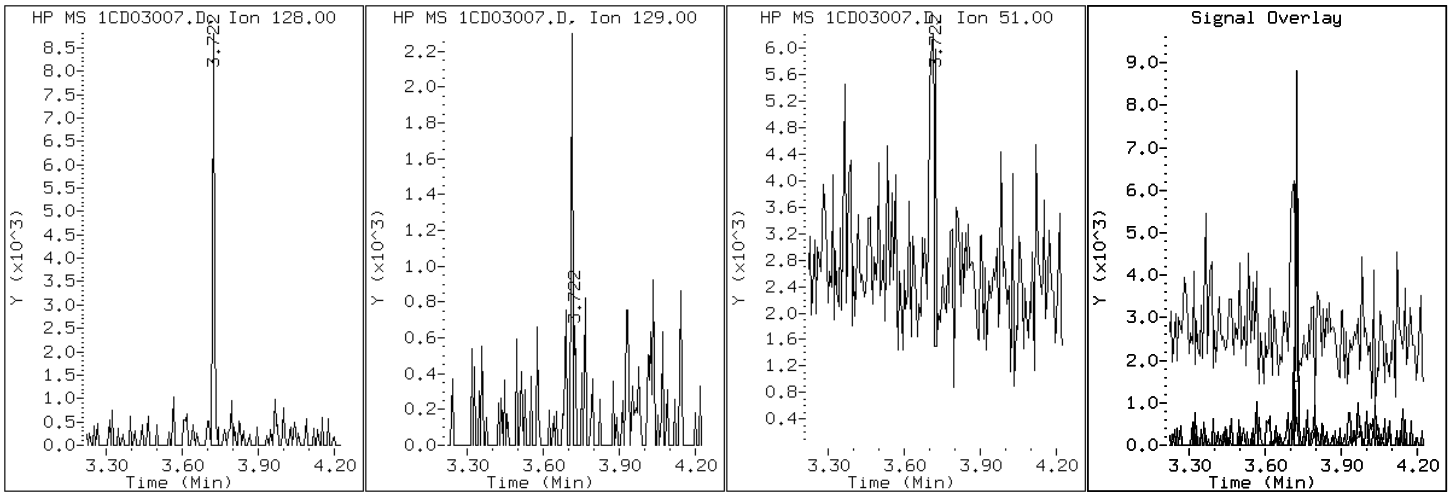
Data File: 1CD03007.D

Date: 03-APR-2013 12:59

Client ID: CV0613J-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-11-a Operator: SCC

2 Naphthalene



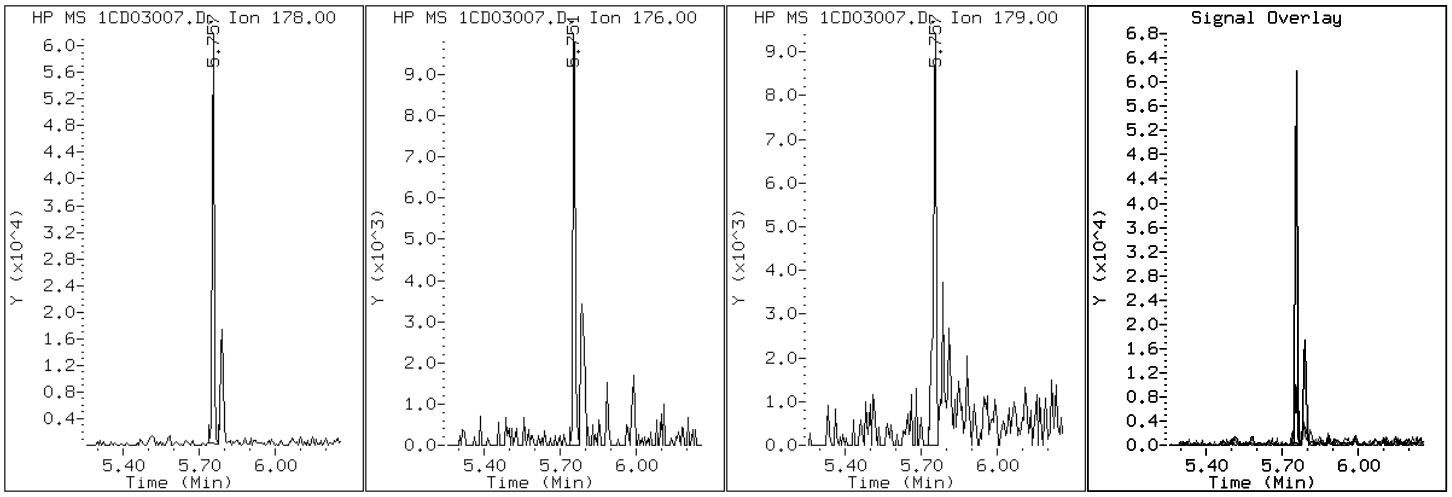
Data File: 1CD03007.D

Date: 03-APR-2013 12:59

Client ID: CV0613J-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-11-a Operator: SCC

11 Phenanthrene



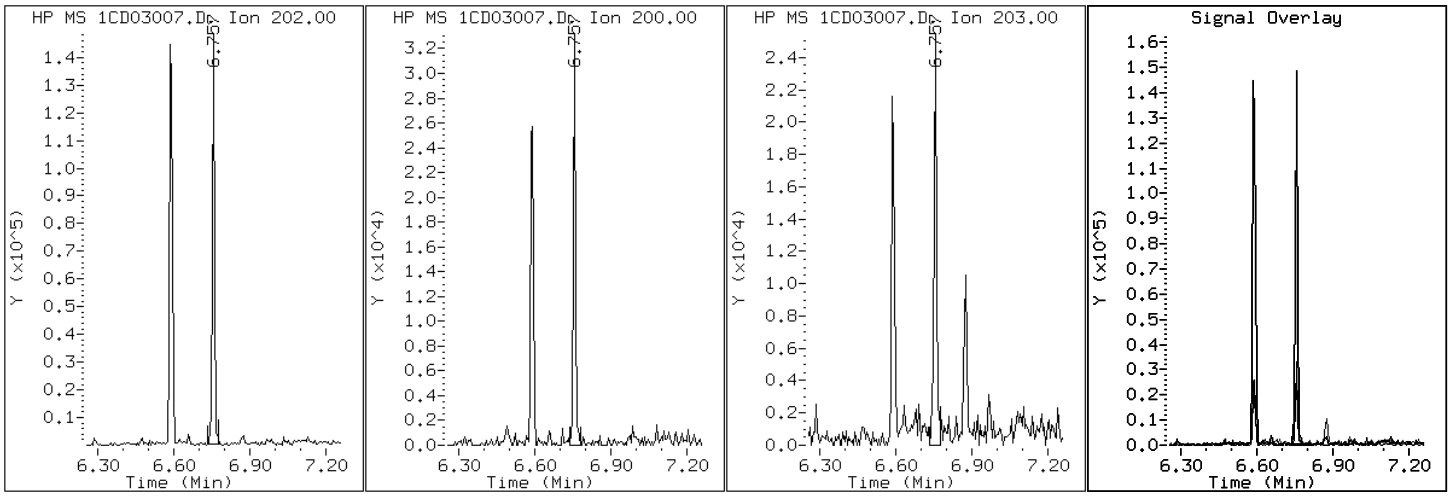
Data File: 1CD03007.D

Date: 03-APR-2013 12:59

Client ID: CV0613J-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-11-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD03007.D
Inj. Date and Time: 03-APR-2013 12:59
Instrument ID: BSMC5973.i
Client ID: CV0613J-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

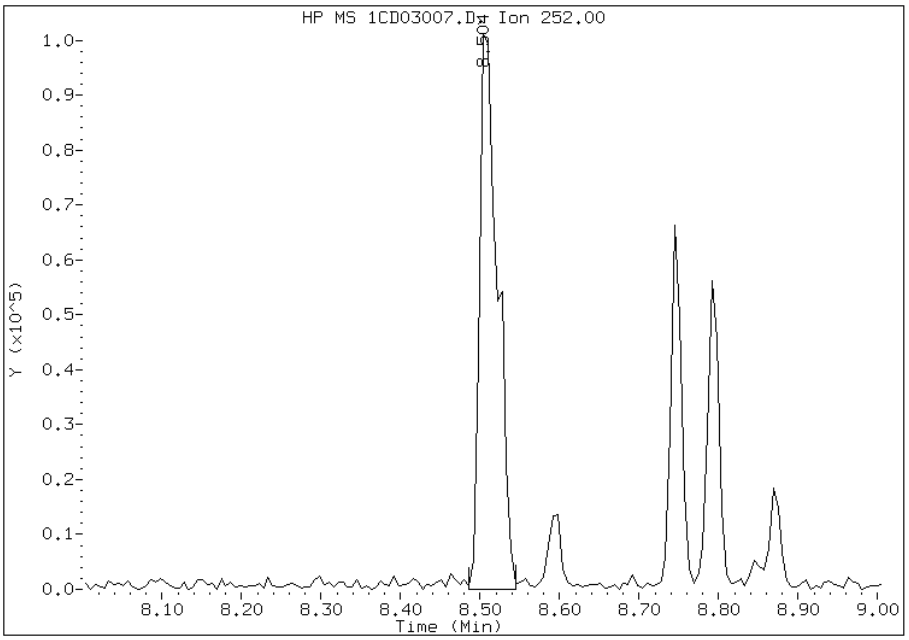
Processing Integration Results

RT: 8.50

Response: 160931

Amount: 5

Conc: 1707



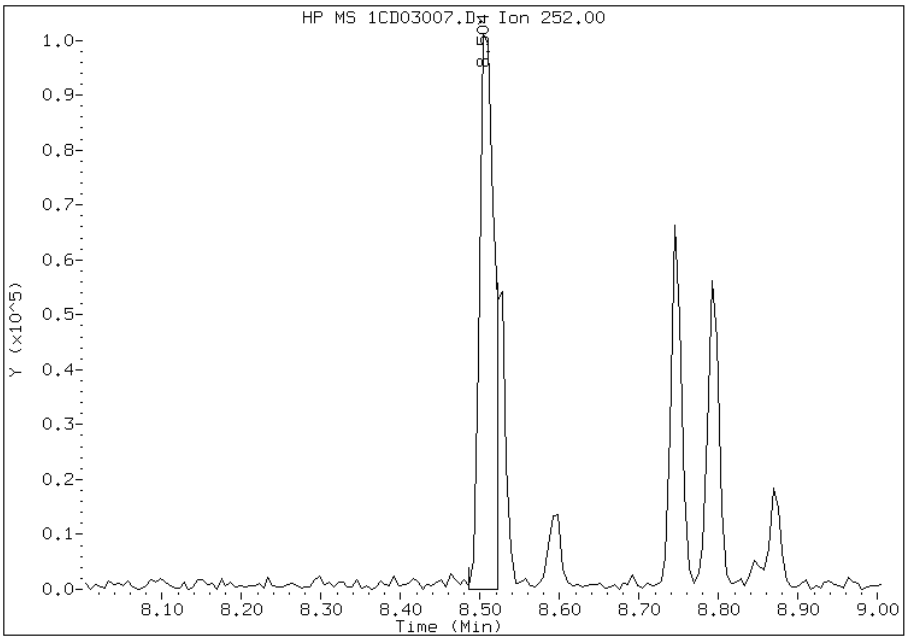
Manual Integration Results

RT: 8.50

Response: 130846

Amount: 4

Conc: 1388



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:16
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD03007.D
Inj. Date and Time: 03-APR-2013 12:59
Instrument ID: BSMC5973.i
Client ID: CV0613J-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

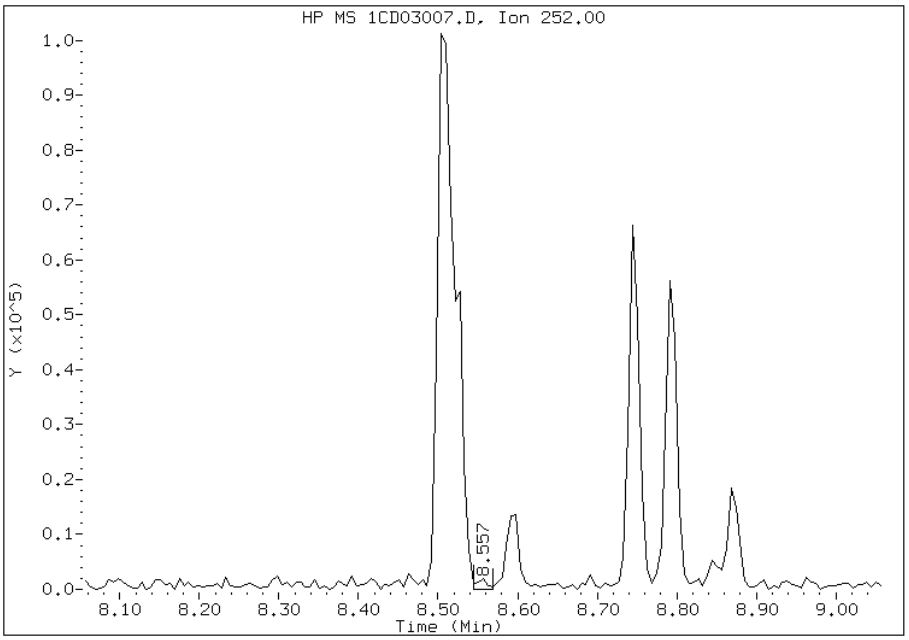
Processing Integration Results

RT: 8.56

Response: 1927

Amount: 0

Conc: 21



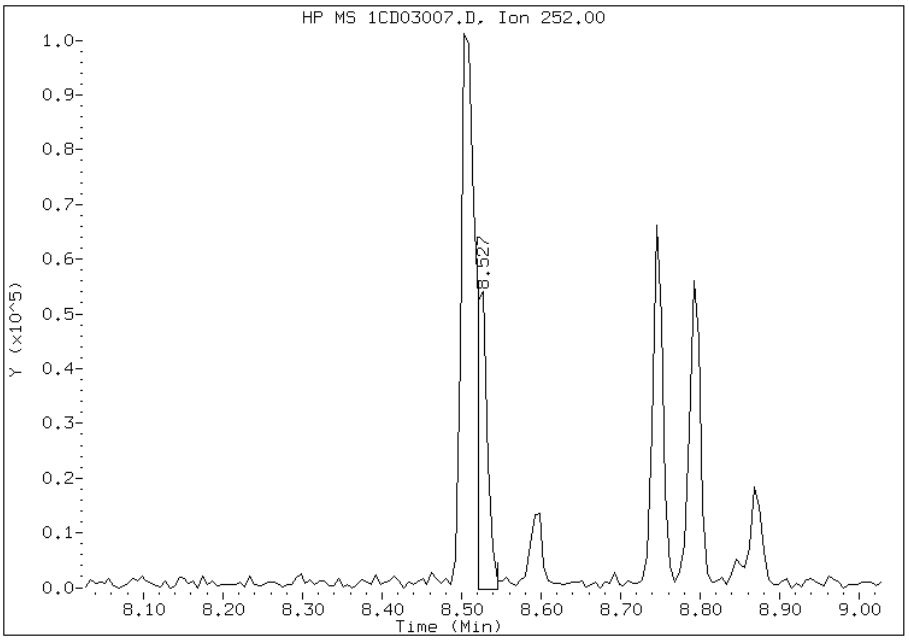
Manual Integration Results

RT: 8.53

Response: 49173

Amount: 2

Conc: 539



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:17
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD03007.D
Inj. Date and Time: 03-APR-2013 12:59
Instrument ID: BSMC5973.i
Client ID: CV0613J-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/03/2013

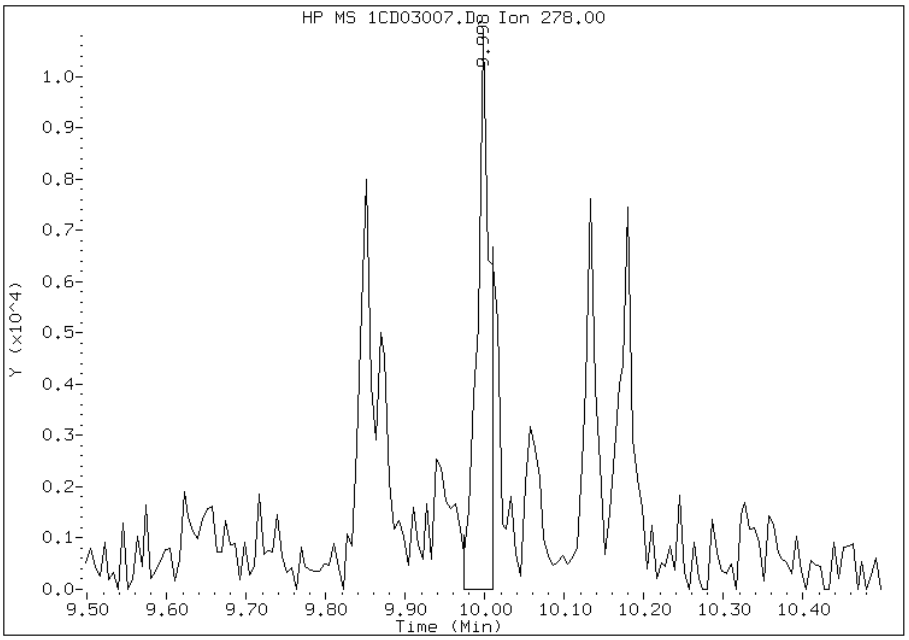
Processing Integration Results

RT: 10.00

Response: 12267

Amount: 0

Conc: 158



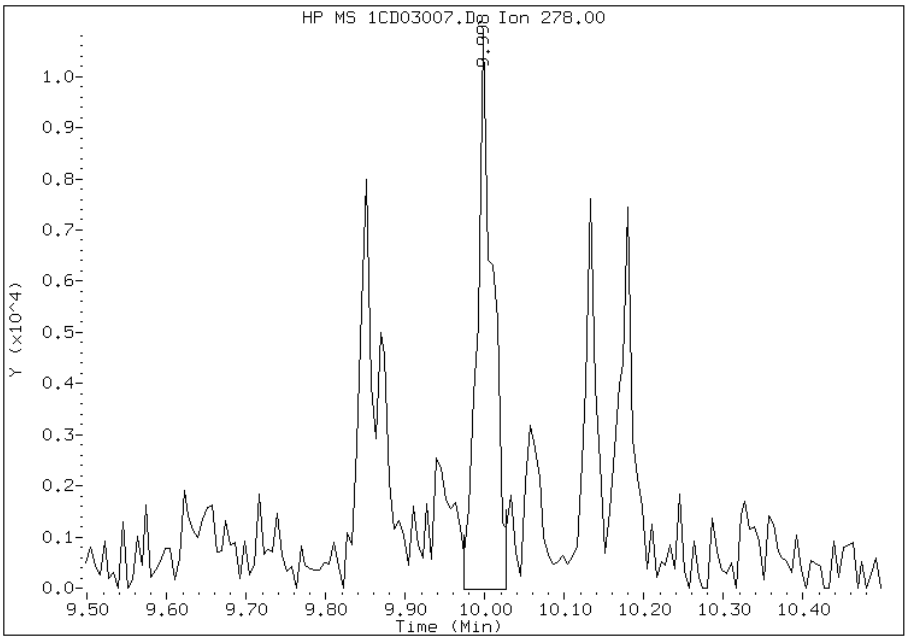
Manual Integration Results

RT: 10.00

Response: 15046

Amount: 1

Conc: 193



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:17
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD03007.D
Inj. Date and Time: 03-APR-2013 12:59
Instrument ID: BSMC5973.i
Client ID: CV0613J-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

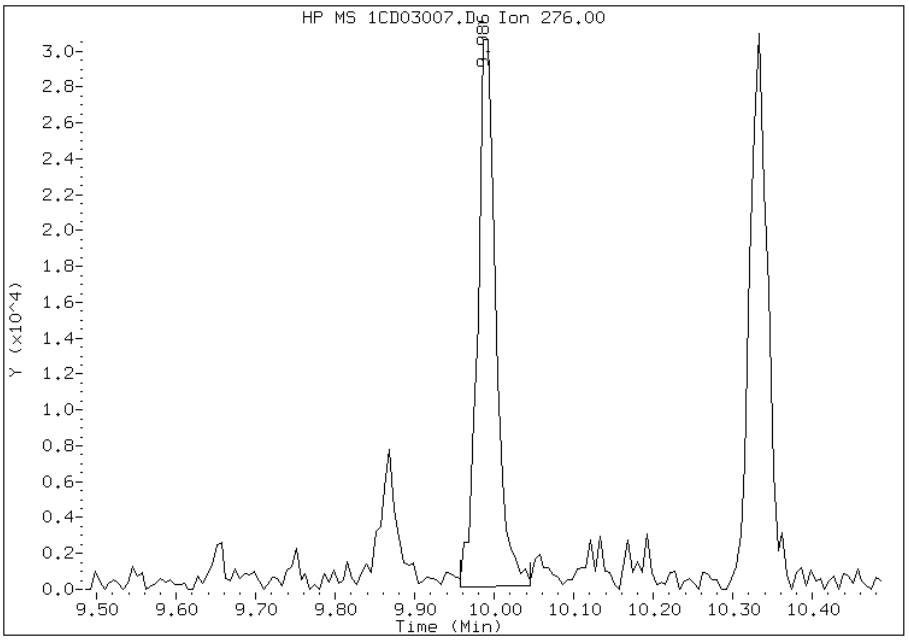
Processing Integration Results

RT: 9.99

Response: 48823

Amount: 2

Conc: 579



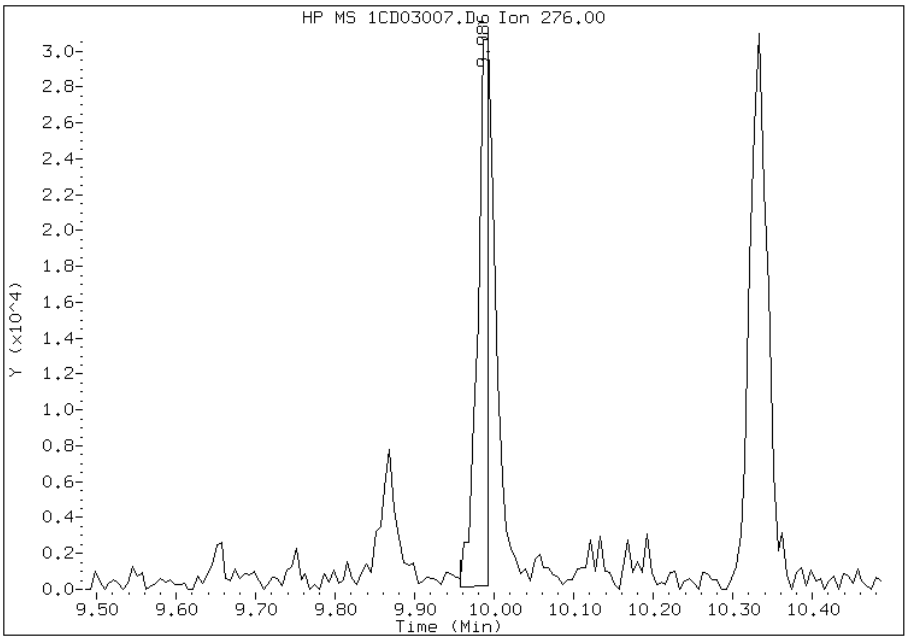
Manual Integration Results

RT: 9.99

Response: 31912

Amount: 1

Conc: 379



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:18
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-1

SDG No.: 68088766-1

Client Sample ID: CV0613K-CS | Lab Sample ID: 680-88766-12

Matrix: Solid | Lab File ID: 1CD03008.D

Analysis Method: 8270C LL | Date Collected: 03/25/2013 14:26

Extract. Method: 3546 | Date Extracted: 03/29/2013 10:19

Sample wt/vol: 14.88(g) | Date Analyzed: 04/03/2013 13:17

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.: 136081 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	50	J	120	24
208-96-8	Acenaphthylene	100		48	6.0
120-12-7	Anthracene	170		10	5.0
56-55-3	Benzo[a]anthracene	450		9.5	4.6
50-32-8	Benzo[a]pyrene	460		12	6.2
205-99-2	Benzo[b]fluoranthene	850		15	7.3
191-24-2	Benzo[g,h,i]perylene	390		24	5.2
207-08-9	Benzo[k]fluoranthene	380		9.5	4.3
218-01-9	Chrysene	540		11	5.4
53-70-3	Dibenz(a,h)anthracene	130		24	4.9
206-44-0	Fluoranthene	750		24	4.8
86-73-7	Fluorene	47		24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	360		24	8.5
90-12-0	1-Methylnaphthalene	76		48	5.2
91-57-6	2-Methylnaphthalene	96		48	8.5
91-20-3	Naphthalene	120		48	5.2
85-01-8	Phenanthrene	540		9.5	4.6
129-00-0	Pyrene	730		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	57		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03008.D
Lab Smp Id: 680-88766-A-12-A Client Smp ID: CV0613K-CS
Inj Date : 03-APR-2013 13:17
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88766-a-12-a
Misc Info : 680-88766-A-12-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m
Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.880	Weight Extracted
M	15.335	% 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	3.710	3.704	(1.000)	673174	40.0000	
* 6 Acenaphthene-d10	164	4.792	4.792	(1.000)	535006	40.0000	
* 10 Phenanthrene-d10	188	5.739	5.739	(1.000)	973296	40.0000	
$ 14 o-Terphenyl	230	5.992	5.992	(1.044)	79283	5.71596	453.7129
* 18 Chrysene-d12	240	7.680	7.680	(1.000)	1118813	40.0000	
* 23 Perylene-d12	264	8.851	8.851	(1.000)	1093125	40.0000	
2 Naphthalene	128	3.722	3.722	(1.003)	25678	1.48511	117.8826
3 2-Methylnaphthalene	142	4.145	4.145	(1.117)	14177	1.20452	95.6108
4 1-Methylnaphthalene	142	4.210	4.210	(1.135)	10098	0.95349	75.6849
5 Acenaphthylene	152	4.710	4.704	(0.983)	28901	1.30522	103.6039
7 Acenaphthene	154	4.816	4.816	(1.005)	8718	0.63568	50.4581
9 Fluorene	166	5.133	5.133	(1.071)	10902	0.59630	47.3323
11 Phenanthrene	178	5.757	5.757	(1.003)	192972	6.80752	540.3568
12 Anthracene	178	5.786	5.792	(1.008)	60875	2.11846	168.1562

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.898	5.898	(1.028)	26336	1.06975	84.9126
15 Fluoranthene	202	6.592	6.592	(1.149)	293922	9.38880	745.2503
16 Pyrene	202	6.757	6.757	(0.880)	285059	9.19783	730.0916
17 Benzo(a)anthracene	228	7.668	7.668	(0.998)	178276	5.63500	447.2866
19 Chrysene	228	7.698	7.698	(1.002)	215351	6.75478	536.1707
20 Benzo(b)fluoranthene	252	8.509	8.509	(0.961)	331947	10.7414	852.6132(M)
21 Benzo(k)fluoranthene	252	8.521	8.533	(0.963)	144101	4.82115	382.6863(M)
22 Benzo(a)pyrene	252	8.798	8.798	(0.994)	169771	5.83506	463.1665
24 Indeno(1,2,3-cd)pyrene	276	9.992	9.992	(1.129)	127011	4.59607	364.8195(M)
25 Dibenzo(a,h)anthracene	278	10.009	10.009	(1.131)	41454	1.62387	128.8968
26 Benzo(g,h,i)perylene	276	10.339	10.339	(1.168)	138181	4.89925	388.8851

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD03008.D

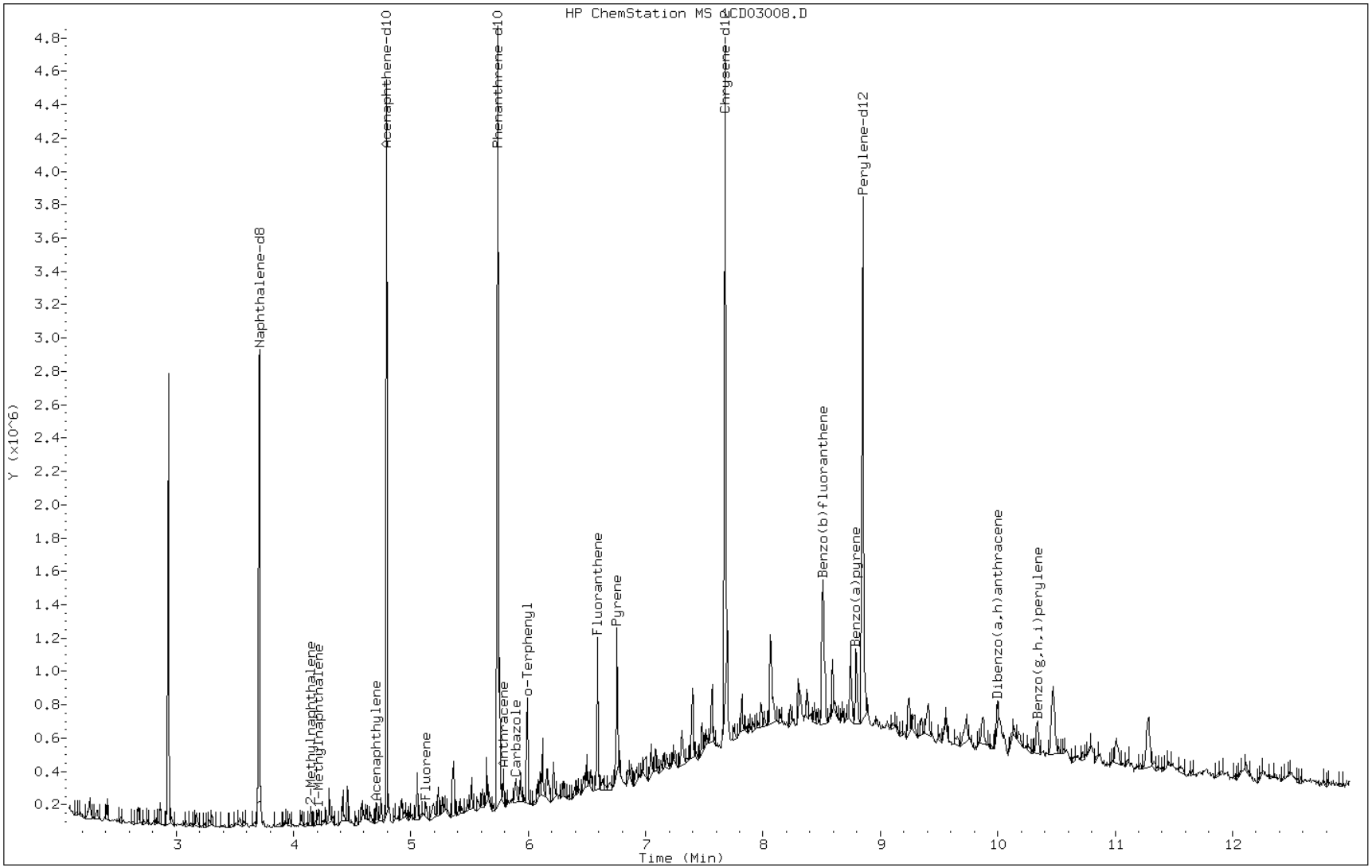
Date: 03-APR-2013 13:17

Client ID: CV0613K-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-12-a

Operator: SCC



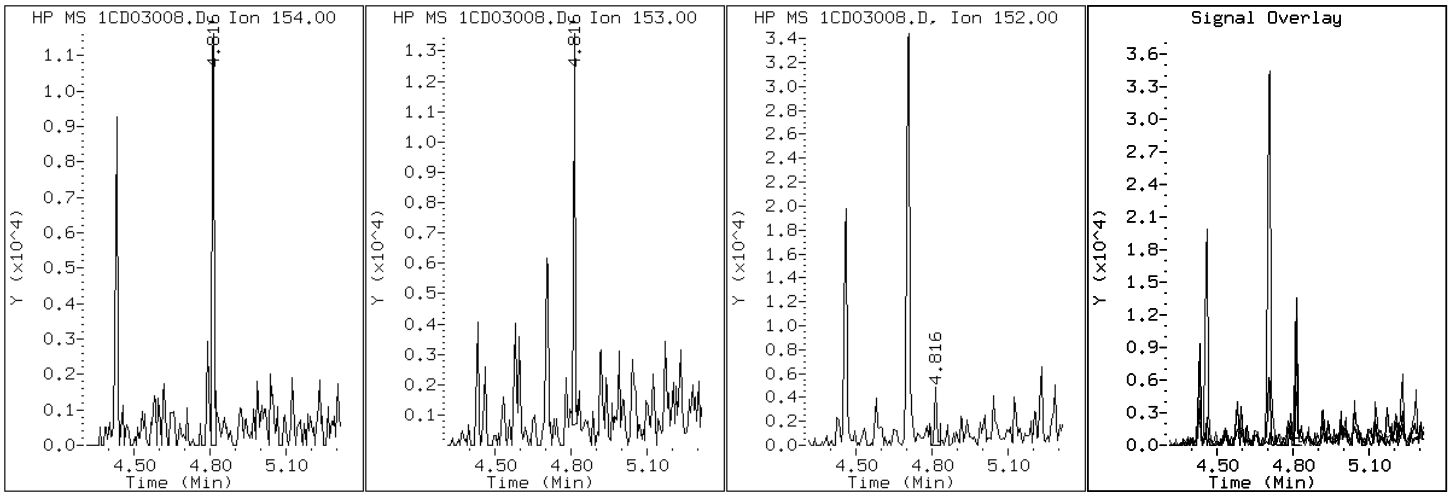
Data File: 1CD03008.D

Date: 03-APR-2013 13:17

Client ID: CV0613K-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-12-a Operator: SCC

7 Acenaphthene



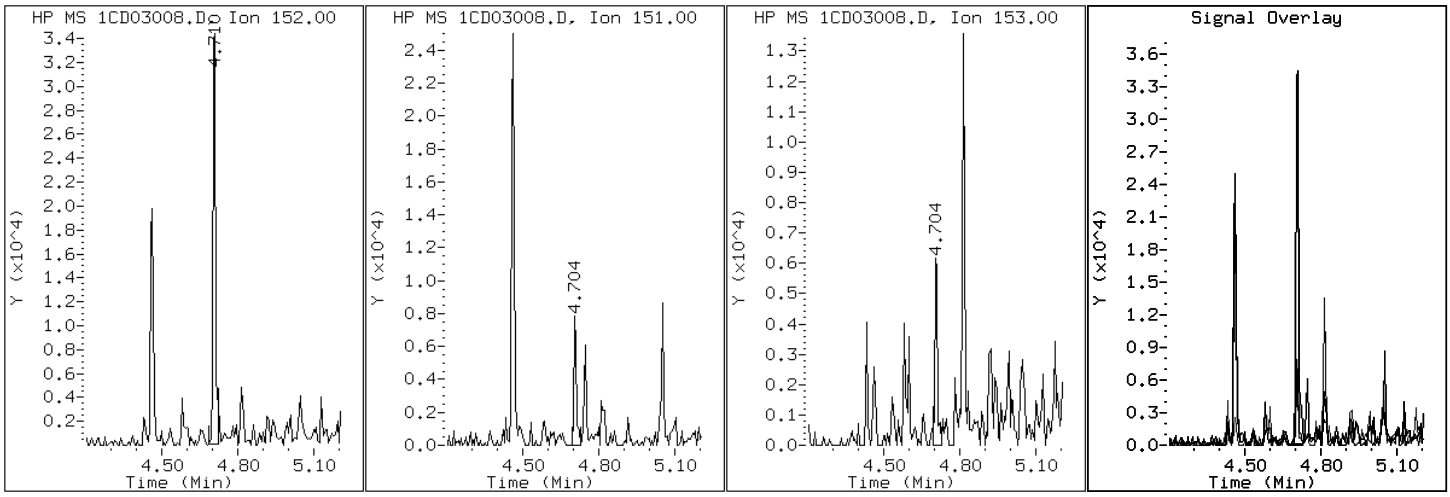
Data File: 1CD03008.D

Date: 03-APR-2013 13:17

Client ID: CV0613K-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-12-a Operator: SCC

5 Acenaphthylene



Data File: 1CD03008.D

Date: 03-APR-2013 13:17

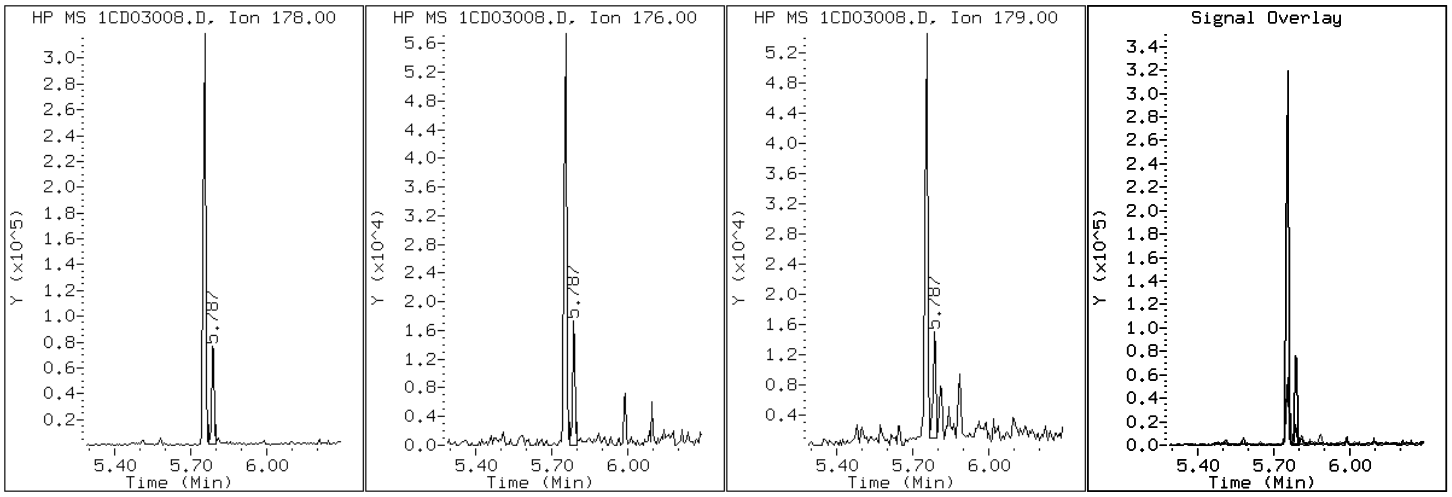
Client ID: CV0613K-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-12-a

Operator: SCC

12 Anthracene



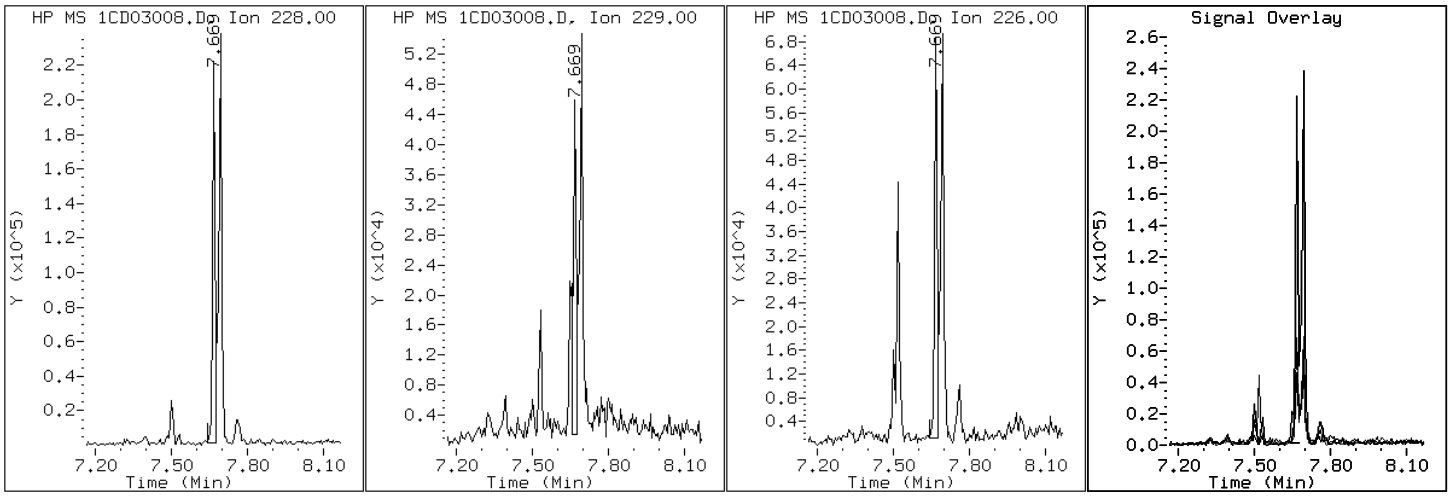
Data File: 1CD03008.D

Date: 03-APR-2013 13:17

Client ID: CV0613K-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-12-a Operator: SCC

17 Benzo(a)anthracene



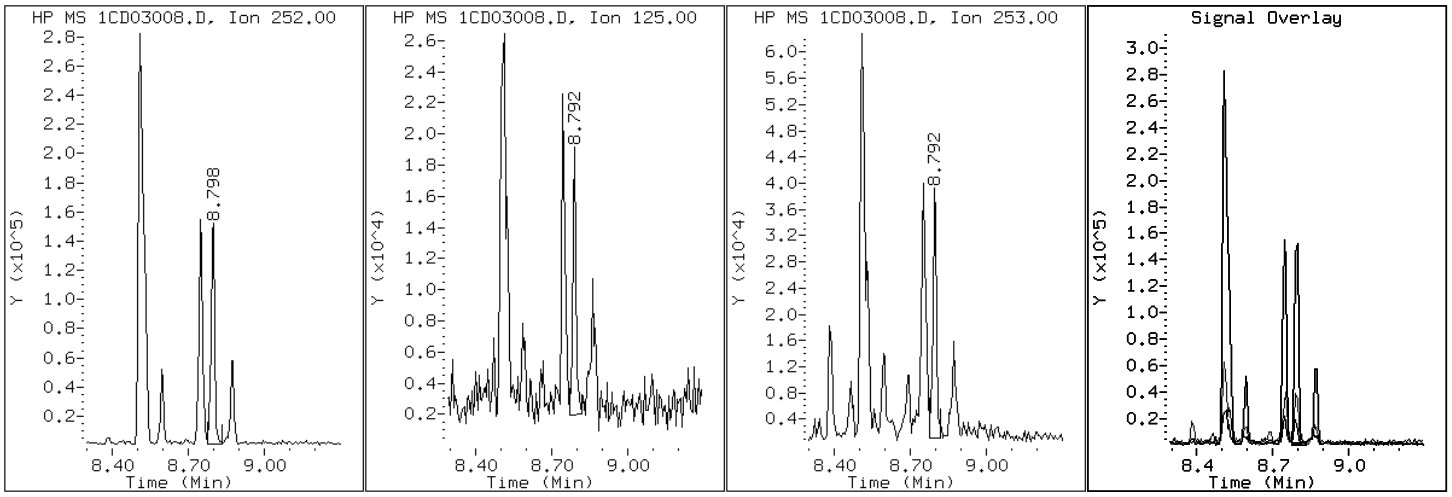
Data File: 1CD03008.D

Date: 03-APR-2013 13:17

Client ID: CV0613K-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-12-a Operator: SCC

22 Benzo(a)pyrene



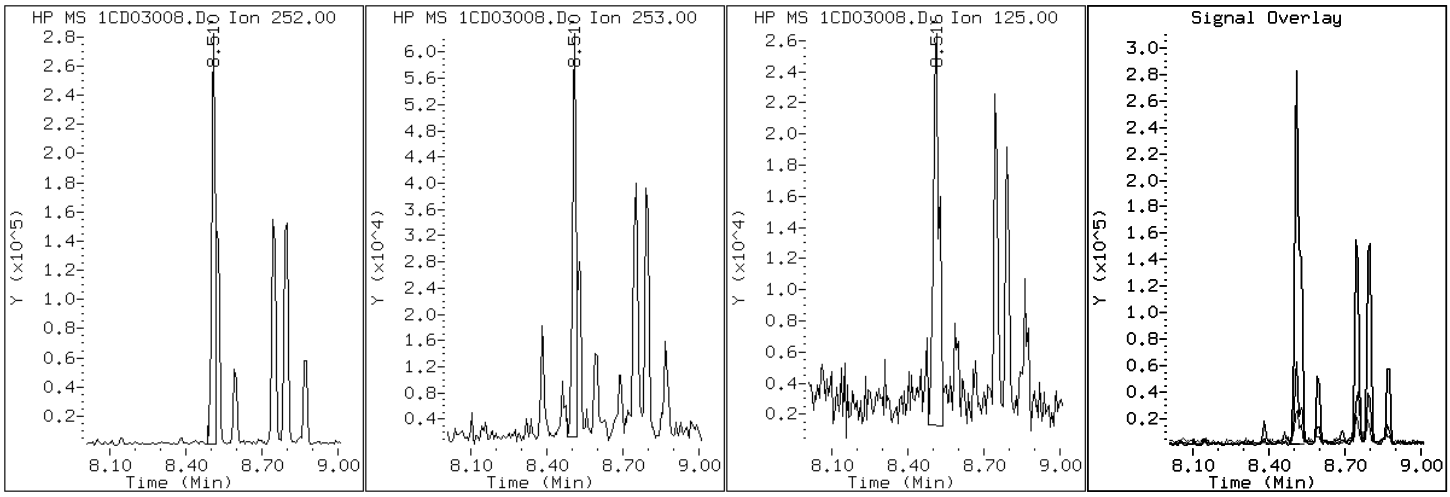
Data File: 1CD03008.D

Date: 03-APR-2013 13:17

Client ID: CV0613K-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-12-a Operator: SCC

20 Benzo(b)fluoranthene



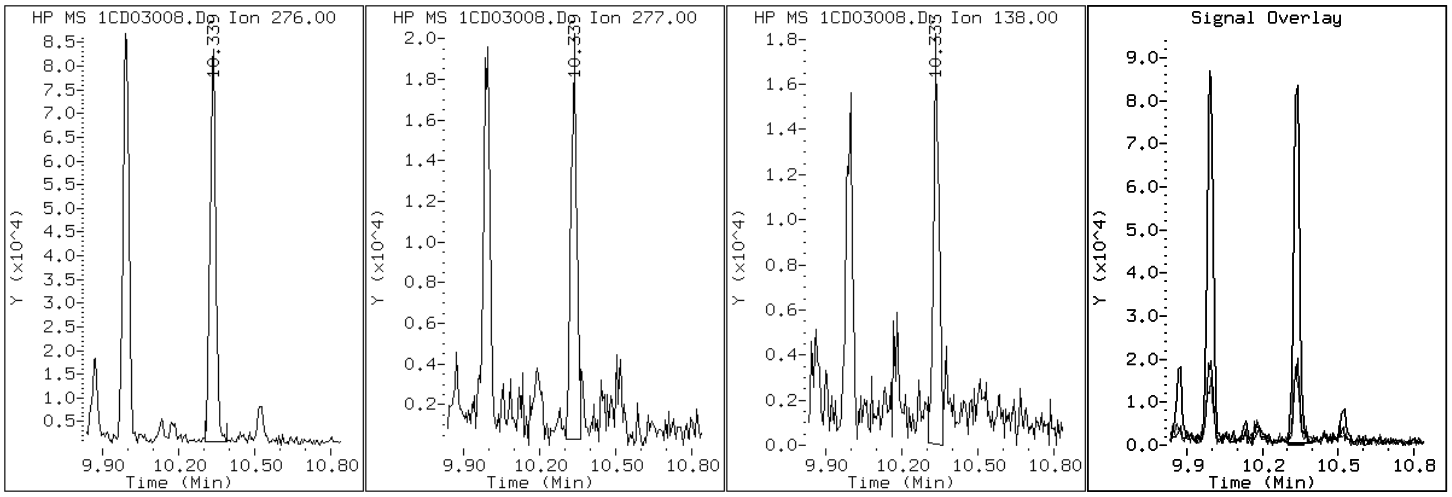
Data File: 1CD03008.D

Date: 03-APR-2013 13:17

Client ID: CV0613K-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-12-a Operator: SCC

26 Benzo(g,h,i)perylene



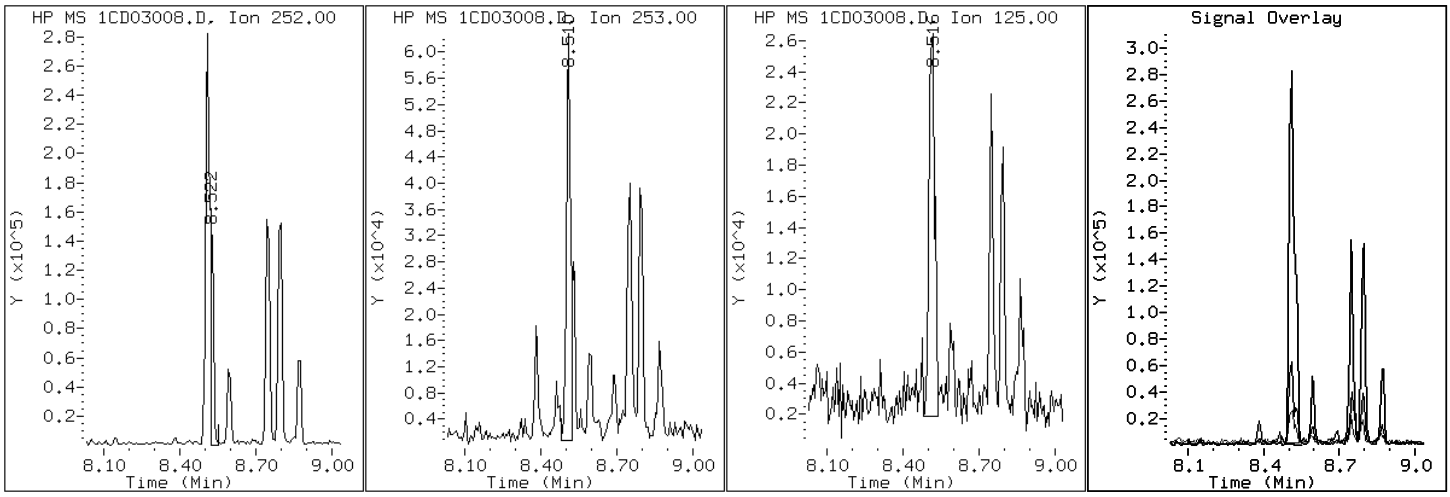
Data File: 1CD03008.D

Date: 03-APR-2013 13:17

Client ID: CV0613K-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-12-a Operator: SCC

21 Benzo(k)fluoranthene



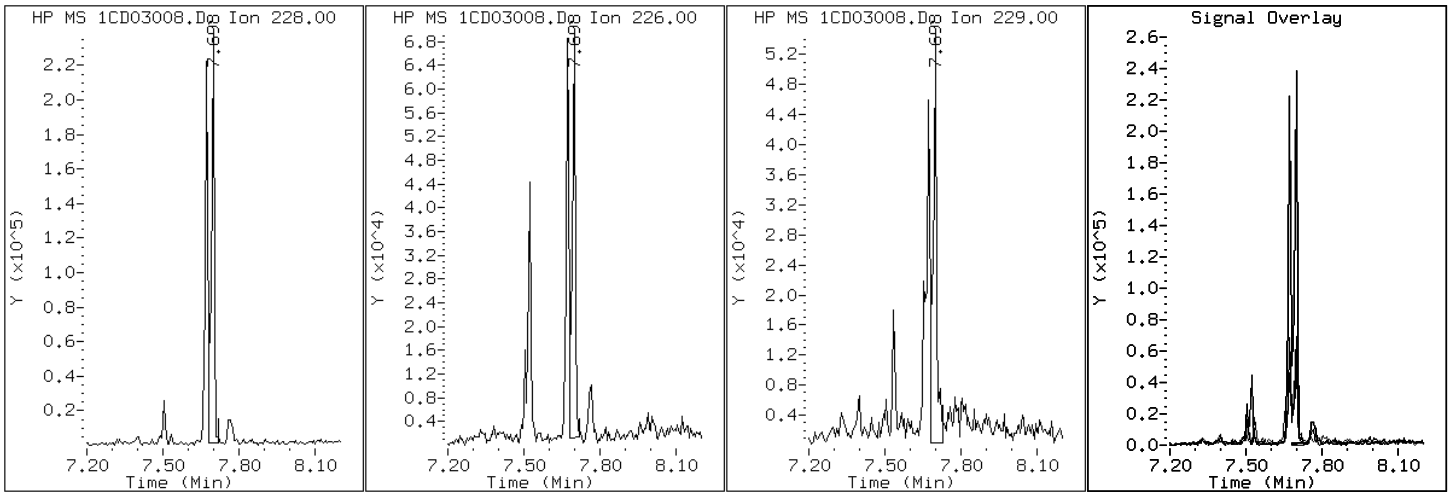
Data File: 1CD03008.D

Date: 03-APR-2013 13:17

Client ID: CV0613K-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-12-a Operator: SCC

19 Chrysene



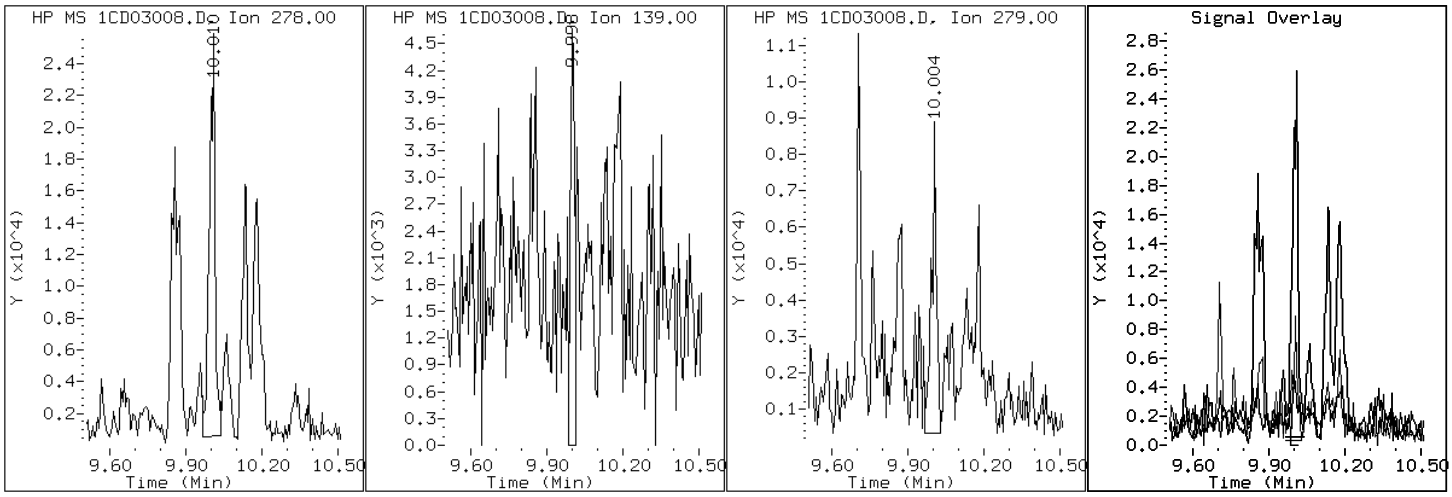
Data File: 1CD03008.D

Date: 03-APR-2013 13:17

Client ID: CV0613K-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-12-a Operator: SCC

25 Dibenzo(a,h)anthracene



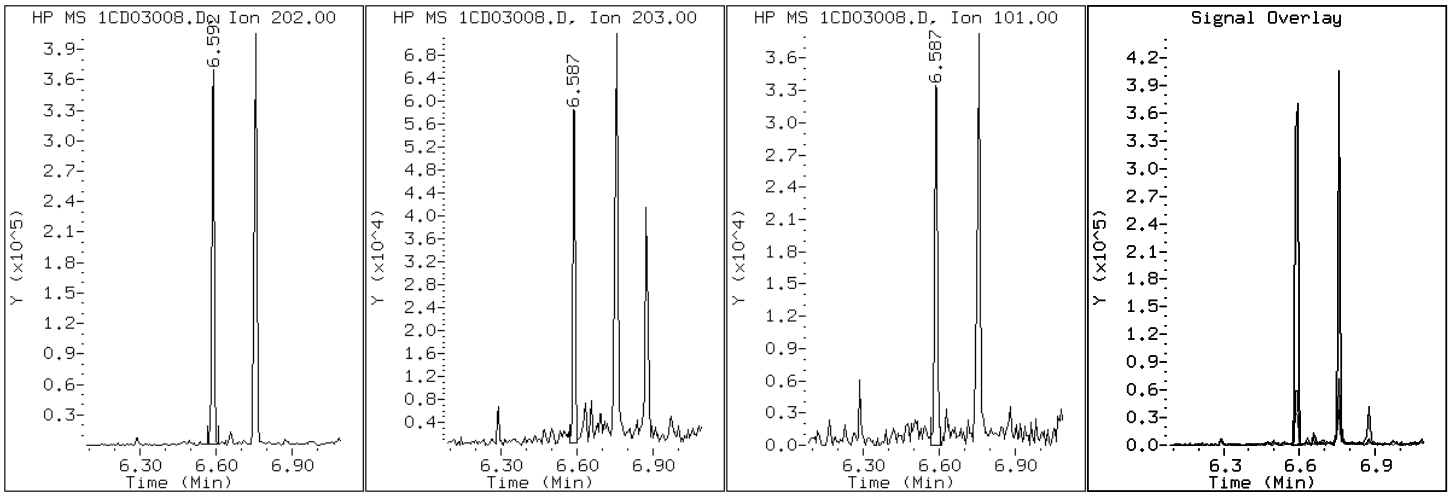
Data File: 1CD03008.D

Date: 03-APR-2013 13:17

Client ID: CV0613K-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-12-a Operator: SCC

15 Fluoranthene



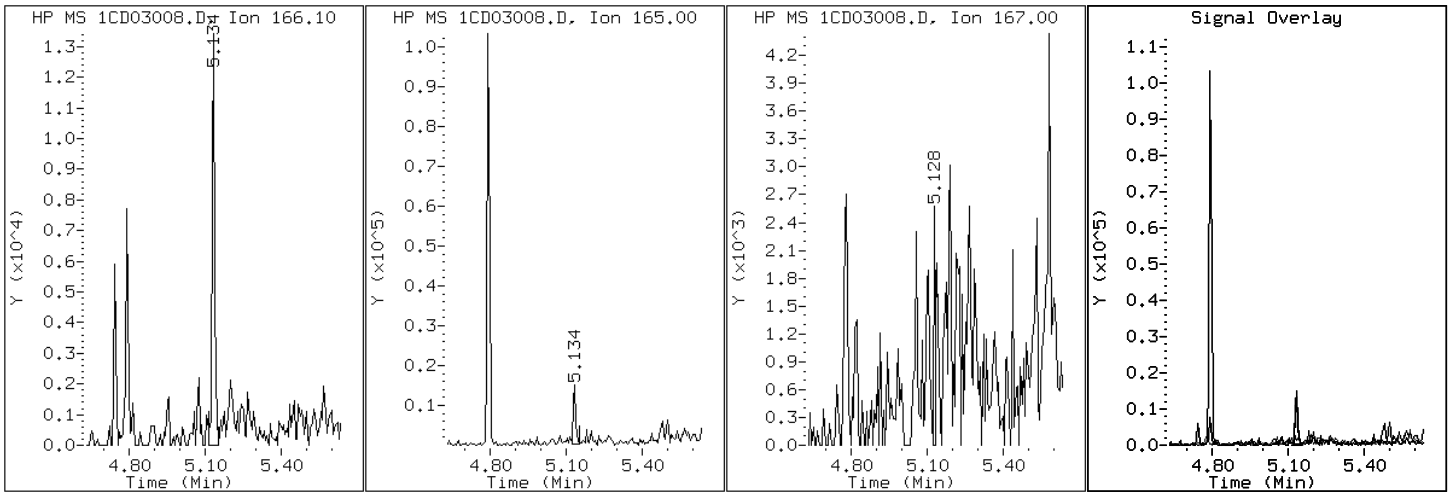
Data File: 1CD03008.D

Date: 03-APR-2013 13:17

Client ID: CV0613K-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-12-a Operator: SCC

9 Fluorene



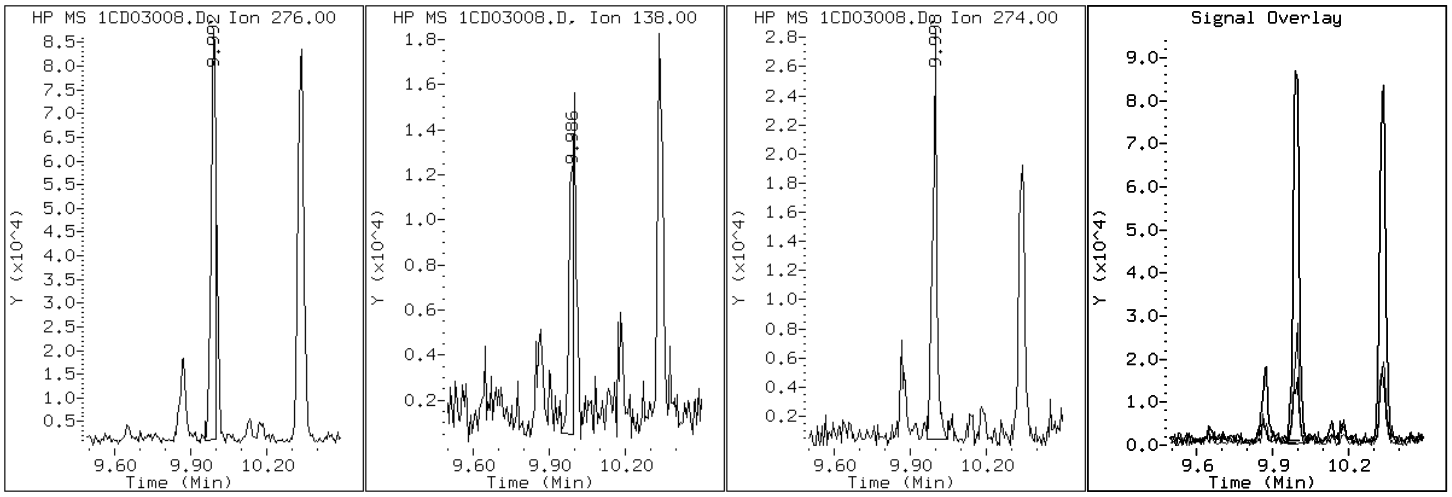
Data File: 1CD03008.D

Date: 03-APR-2013 13:17

Client ID: CV0613K-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-12-a Operator: SCC

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



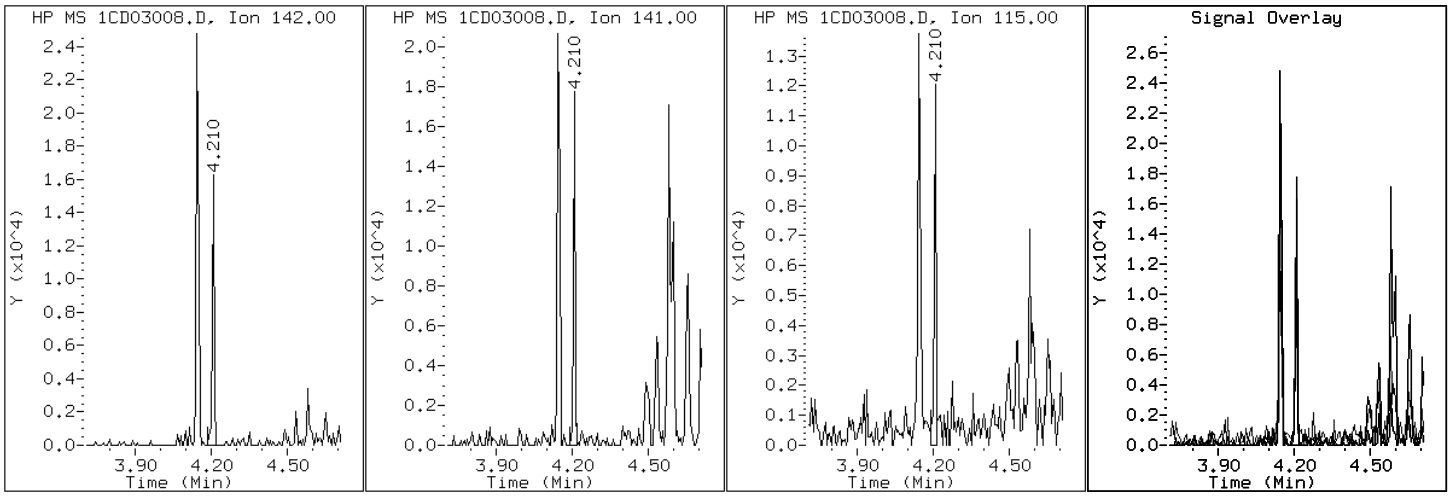
Data File: 1CD03008.D

Date: 03-APR-2013 13:17

Client ID: CV0613K-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-12-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD03008.D

Date: 03-APR-2013 13:17

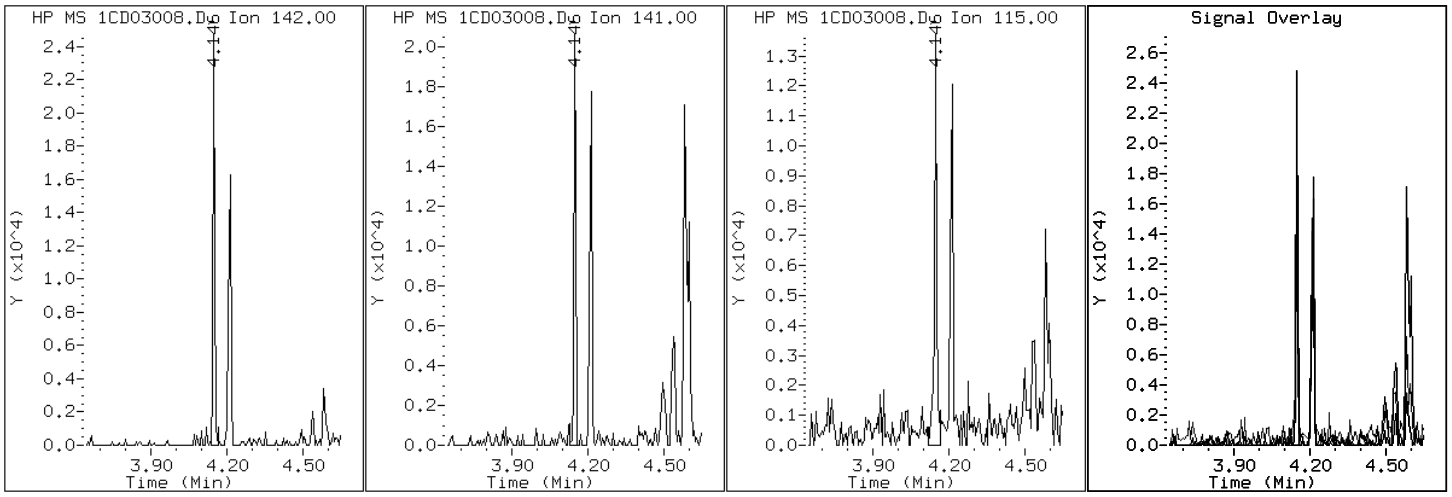
Client ID: CV0613K-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-12-a

Operator: SCC

3 2-Methylnaphthalene



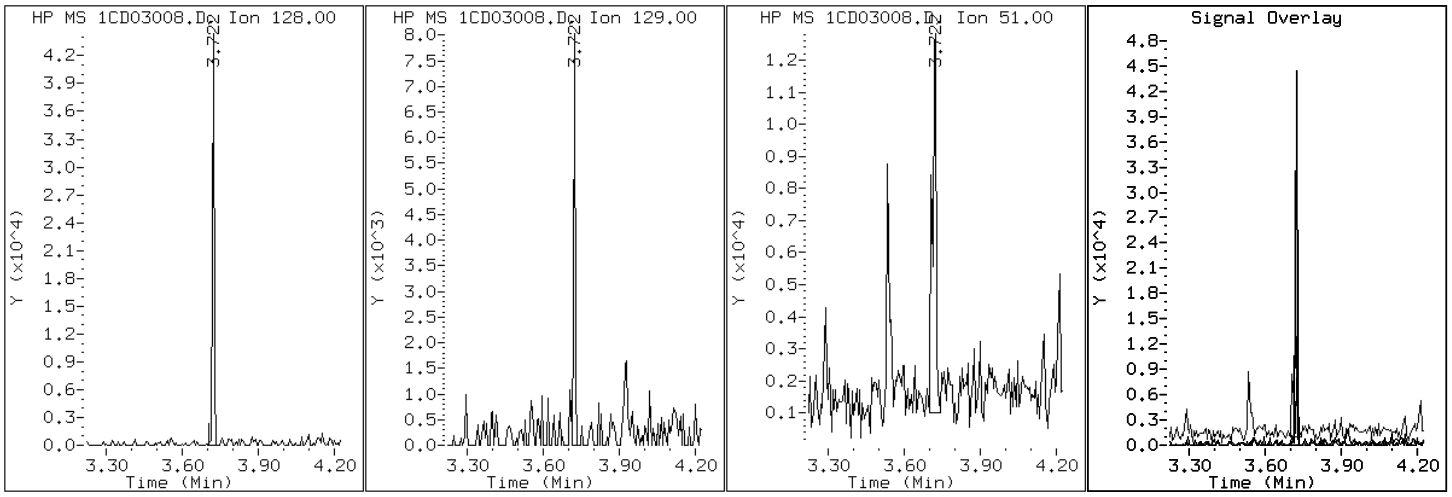
Data File: 1CD03008.D

Date: 03-APR-2013 13:17

Client ID: CV0613K-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-12-a Operator: SCC

2 Naphthalene



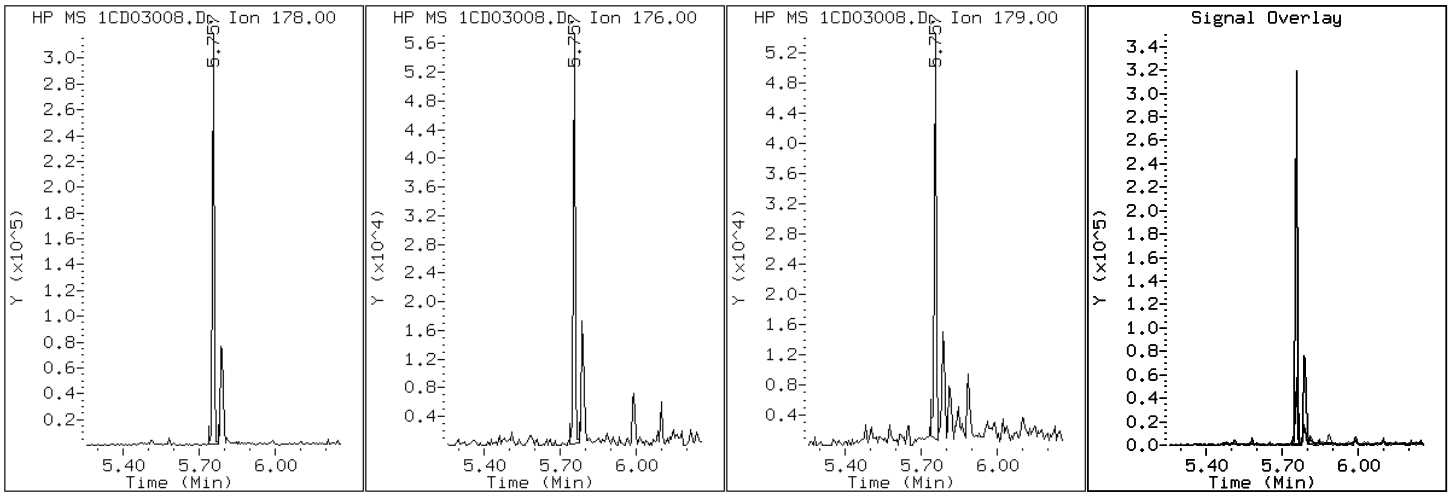
Data File: 1CD03008.D

Date: 03-APR-2013 13:17

Client ID: CV0613K-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-12-a Operator: SCC

11 Phenanthrene



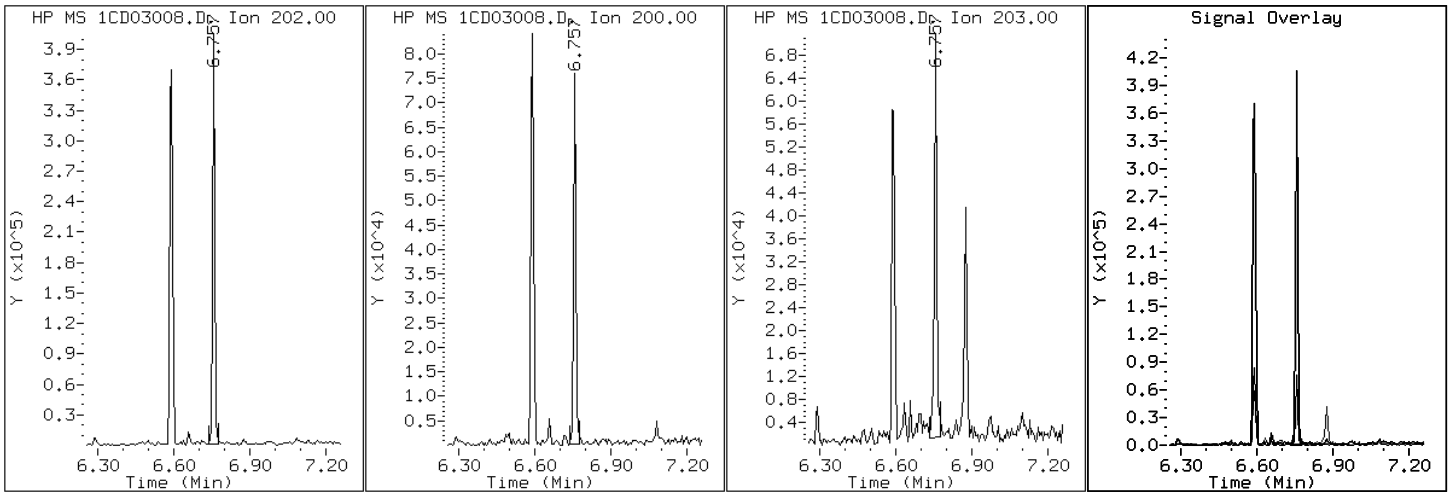
Data File: 1CD03008.D

Date: 03-APR-2013 13:17

Client ID: CV0613K-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-12-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD03008.D
Inj. Date and Time: 03-APR-2013 13:17
Instrument ID: BSMC5973.i
Client ID: CV0613K-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

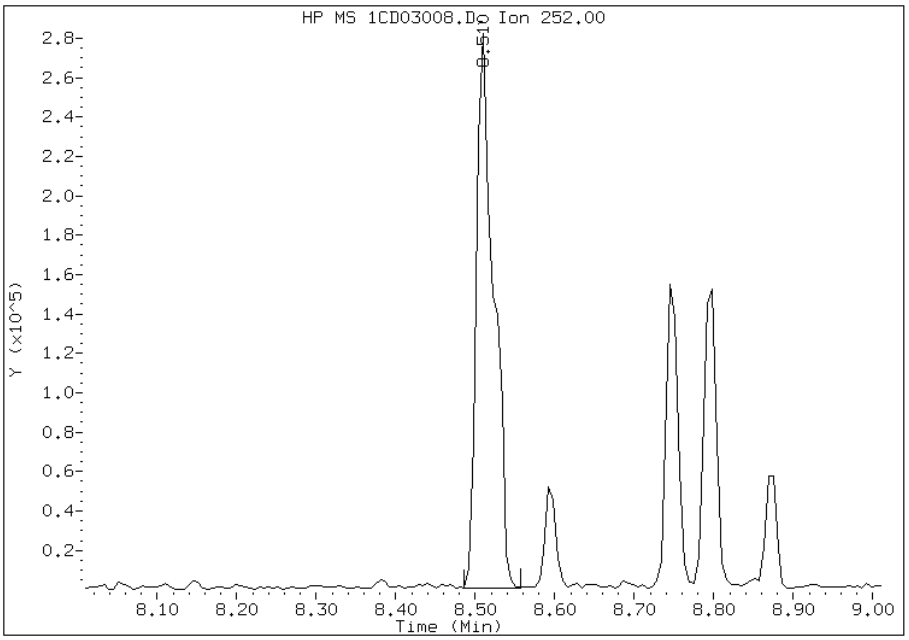
Processing Integration Results

RT: 8.51

Response: 422462

Amount: 14

Conc: 1085



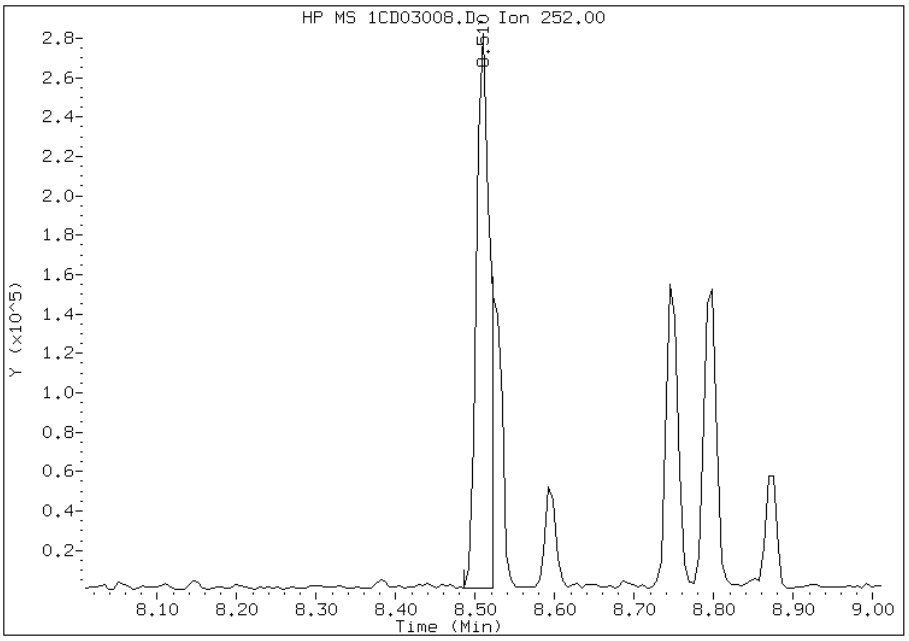
Manual Integration Results

RT: 8.51

Response: 331947

Amount: 11

Conc: 853



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:19
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD03008.D
Inj. Date and Time: 03-APR-2013 13:17
Instrument ID: BSMC5973.i
Client ID: CV0613K-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

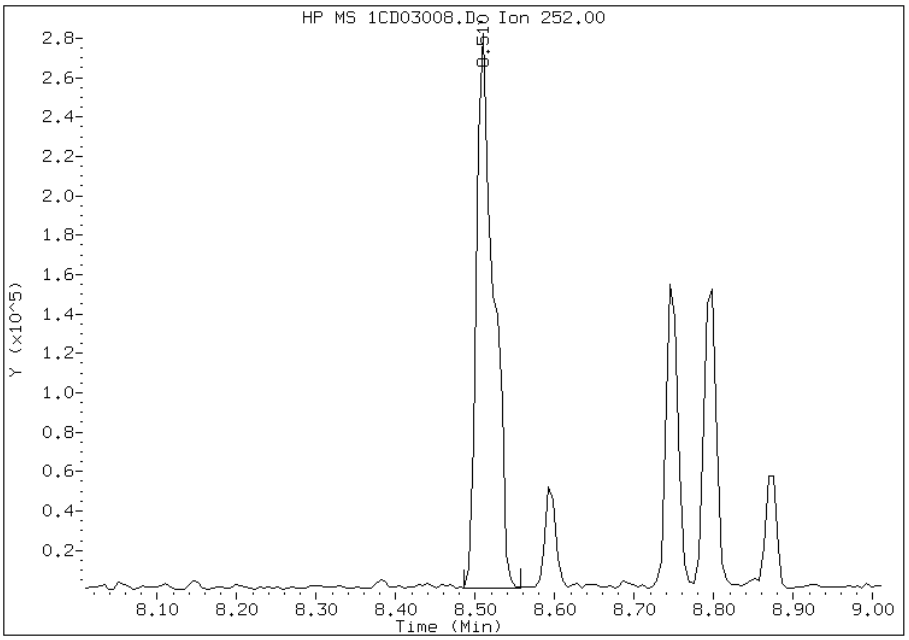
Processing Integration Results

RT: 8.51

Response: 421515

Amount: 14

Conc: 1119



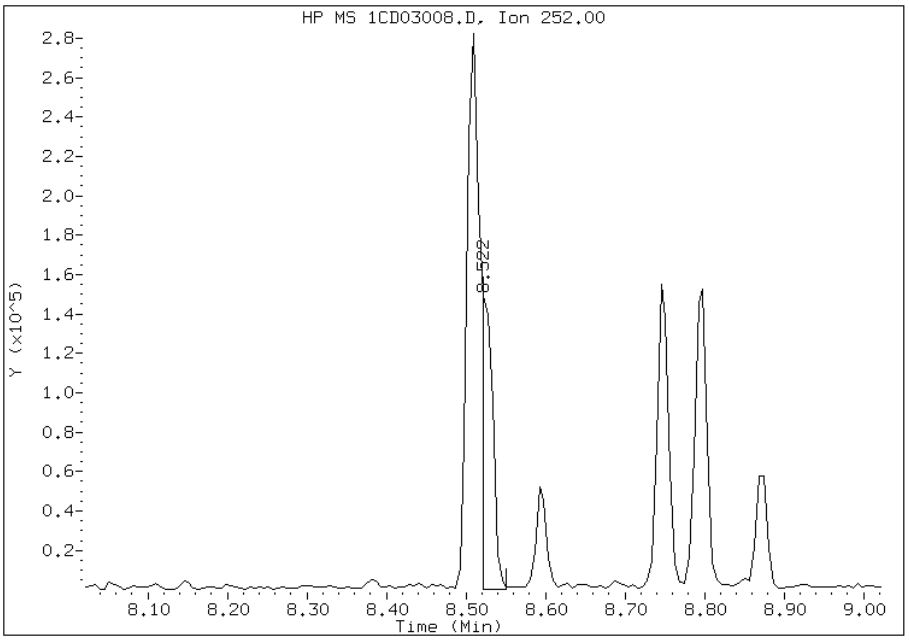
Manual Integration Results

RT: 8.52

Response: 144101

Amount: 5

Conc: 383



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD03008.D
Inj. Date and Time: 03-APR-2013 13:17
Instrument ID: BSMC5973.i
Client ID: CV0613K-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

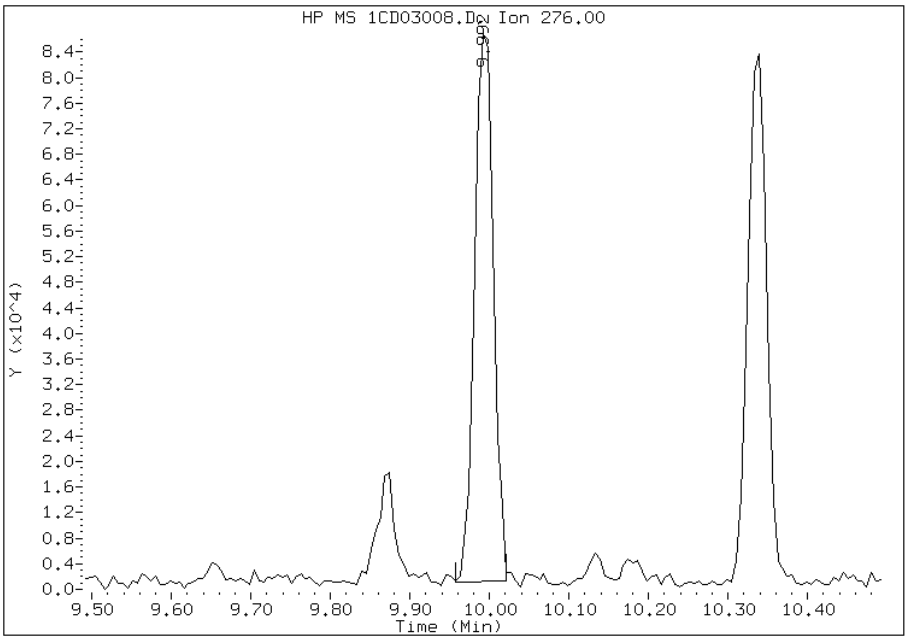
Processing Integration Results

RT: 9.99

Response: 139582

Amount: 5

Conc: 401



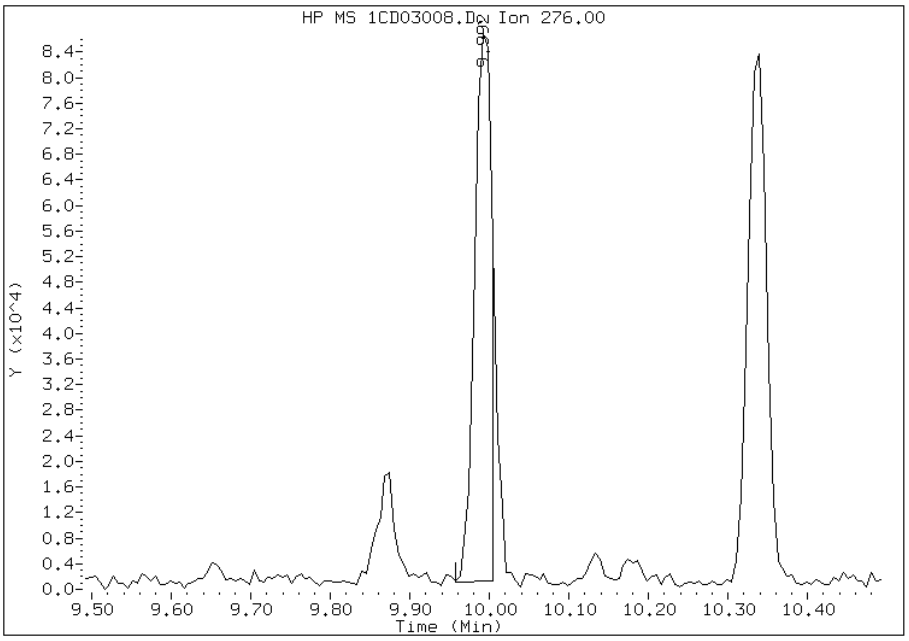
Manual Integration Results

RT: 9.99

Response: 127011

Amount: 5

Conc: 365



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:19
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-1

SDG No.: 68088766-1

Client Sample ID: CV0613K-CSD | Lab Sample ID: 680-88766-13

Matrix: Solid | Lab File ID: 1CD03009.D

Analysis Method: 8270C LL | Date Collected: 03/25/2013 14:28

Extract. Method: 3546 | Date Extracted: 03/29/2013 10:19

Sample wt/vol: 14.74(g) | Date Analyzed: 04/03/2013 13:35

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

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

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

Analysis Batch No.: 136081 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	24	J	120	23
208-96-8	Acenaphthylene	67		47	5.8
120-12-7	Anthracene	99		9.8	4.9
56-55-3	Benzo[a]anthracene	290		9.3	4.6
50-32-8	Benzo[a]pyrene	320		12	6.1
205-99-2	Benzo[b]fluoranthene	560		14	7.1
191-24-2	Benzo[g,h,i]perylene	240		23	5.1
207-08-9	Benzo[k]fluoranthene	230		9.3	4.2
218-01-9	Chrysene	340		11	5.3
53-70-3	Dibenz(a,h)anthracene	74		23	4.8
206-44-0	Fluoranthene	480		23	4.7
86-73-7	Fluorene	24		23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	240		23	8.3
90-12-0	1-Methylnaphthalene	43	J	47	5.1
91-57-6	2-Methylnaphthalene	46	J	47	8.3
91-20-3	Naphthalene	54		47	5.1
85-01-8	Phenanthrene	220		9.3	4.6
129-00-0	Pyrene	440		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	44		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03009.D
Lab Smp Id: 680-88766-A-13-A Client Smp ID: CV0613K-CSD
Inj Date : 03-APR-2013 13:35
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88766-a-13-a
Misc Info : 680-88766-A-13-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m
Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.740	Weight Extracted
M	12.826	% 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	3.710	3.704	(1.000)	677836	40.0000	
* 6 Acenaphthene-d10	164	4.792	4.792	(1.000)	527661	40.0000	
* 10 Phenanthrene-d10	188	5.739	5.739	(1.000)	939614	40.0000	
$ 14 o-Terphenyl	230	5.992	5.992	(1.044)	56168	4.38769	341.4696
* 18 Chrysene-d12	240	7.680	7.680	(1.000)	1092579	40.0000	
* 23 Perylene-d12	264	8.851	8.851	(1.000)	1082251	40.0000	
2 Naphthalene	128	3.721	3.722	(1.003)	12178	0.69948	54.4366(Q)
3 2-Methylnaphthalene	142	4.145	4.145	(1.117)	6939	0.58550	45.5665(M)
4 1-Methylnaphthalene	142	4.210	4.210	(1.135)	5880	0.55139	42.9119
5 Acenaphthylene	152	4.710	4.704	(0.983)	18713	0.85688	66.6859
7 Acenaphthene	154	4.815	4.816	(1.005)	4139	0.30600	23.8142
9 Fluorene	166	5.133	5.133	(1.071)	5566	0.30868	24.0227
11 Phenanthrene	178	5.757	5.757	(1.003)	78569	2.87105	223.4380
12 Anthracene	178	5.792	5.792	(1.009)	35432	1.27724	99.4006

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.898	5.898	(1.028)	12634	0.53158	41.3697
15 Fluoranthene	202	6.592	6.592	(1.149)	184536	6.10597	475.1937
16 Pyrene	202	6.757	6.757	(0.880)	169627	5.60467	436.1805
17 Benzo(a)anthracene	228	7.668	7.668	(0.998)	111851	3.66880	285.5223
19 Chrysene	228	7.698	7.698	(1.002)	135940	4.36633	339.8068
20 Benzo(b)fluoranthene	252	8.509	8.509	(0.961)	219494	7.17391	558.3054(M)
21 Benzo(k)fluoranthene	252	8.527	8.533	(0.963)	86361	2.91839	227.1221(QM)
22 Benzo(a)pyrene	252	8.792	8.798	(0.993)	118063	4.09862	318.9725
24 Indeno(1,2,3-cd)pyrene	276	9.992	9.992	(1.129)	83610	3.05594	237.8268(M)
25 Dibenzo(a,h)anthracene	278	10.003	10.009	(1.130)	24159	0.95588	74.3910
26 Benzo(g,h,i)perylene	276	10.339	10.339	(1.168)	86232	3.08810	240.3296

QC Flag Legend

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

Data File: 1CD03009.D

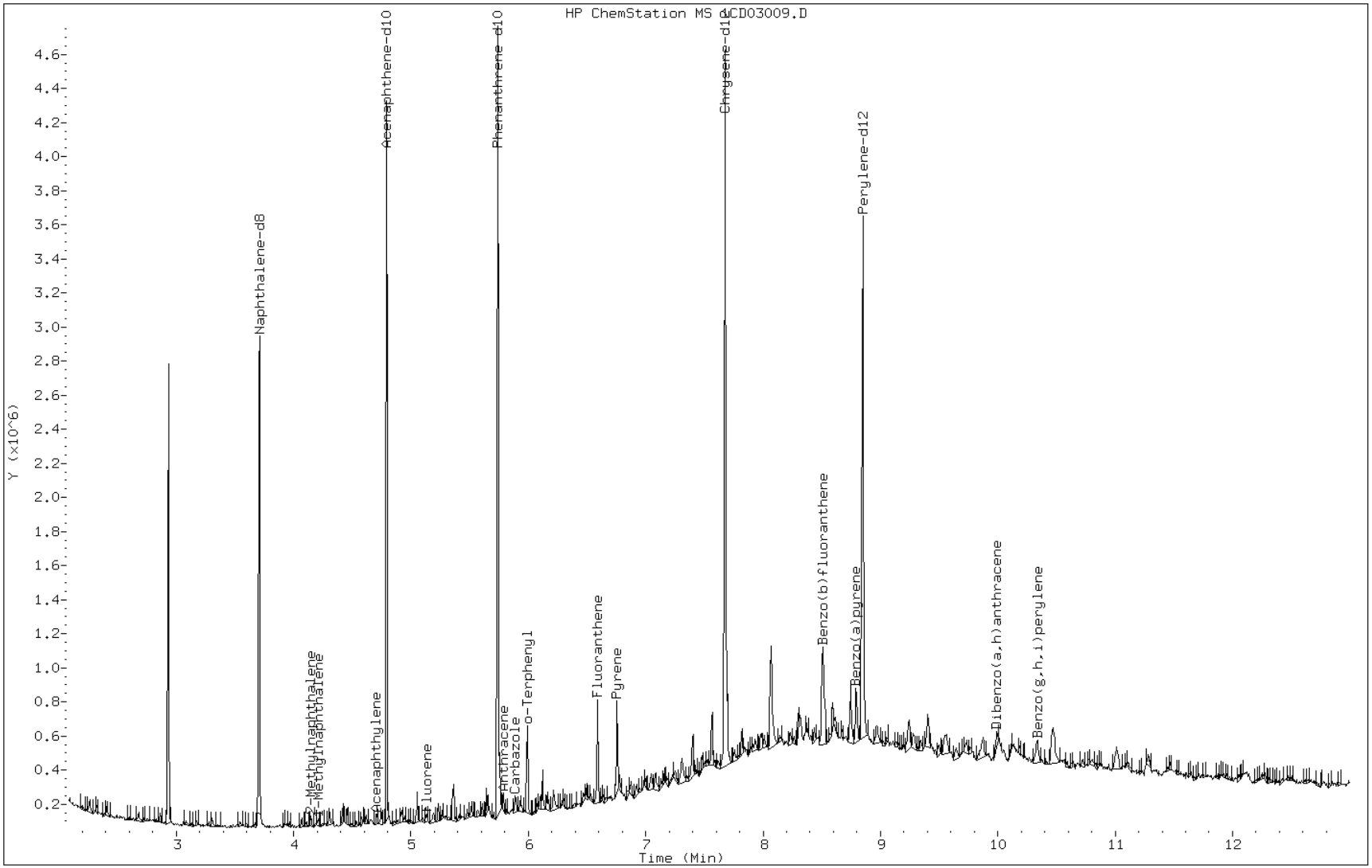
Date: 03-APR-2013 13:35

Client ID: CV0613K-CSD

Instrument: BSMC5973.i

Sample Info: 680-88766-a-13-a

Operator: SCC



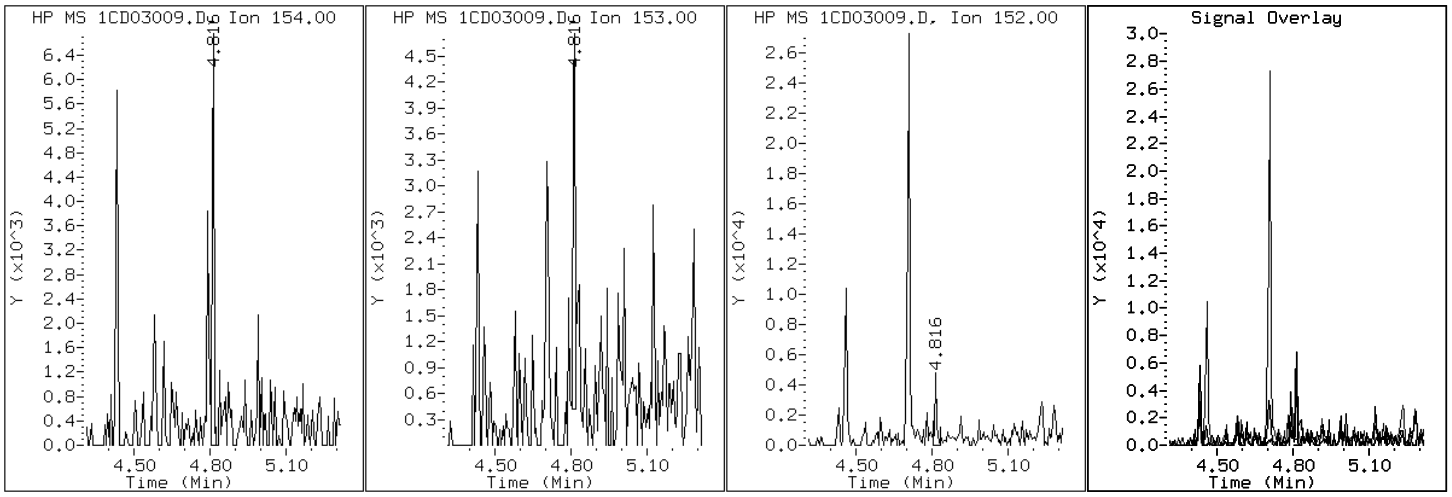
Data File: 1CD03009.D

Date: 03-APR-2013 13:35

Client ID: CV0613K-CSD Instrument: BSMC5973.i

Sample Info: 680-88766-a-13-a Operator: SCC

7 Acenaphthene



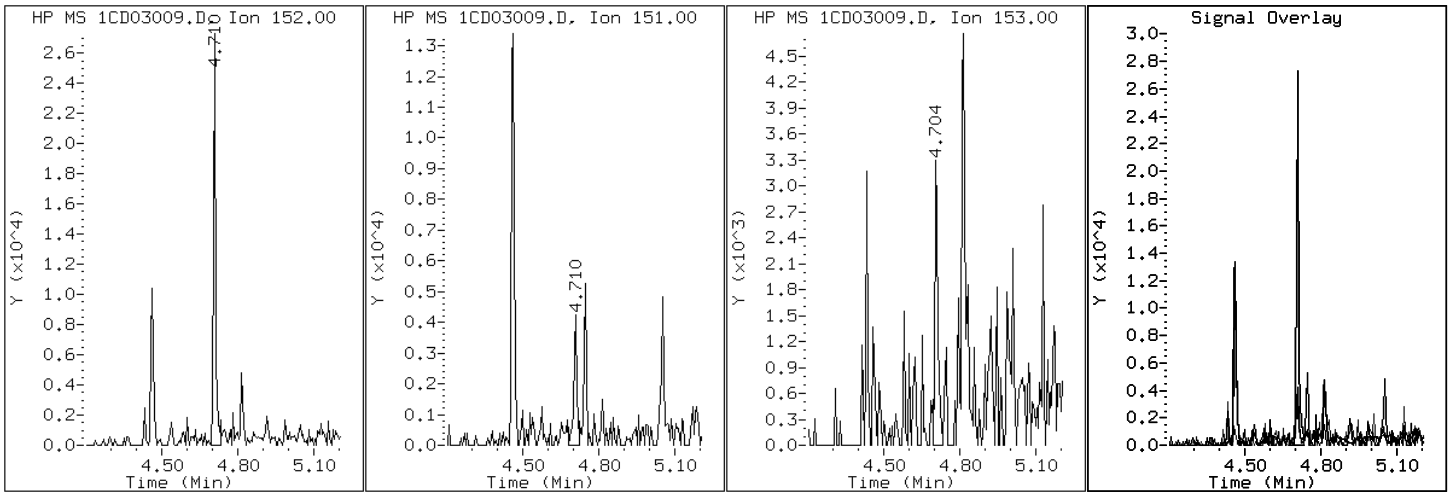
Data File: 1CD03009.D

Date: 03-APR-2013 13:35

Client ID: CV0613K-CSD Instrument: BSMC5973.i

Sample Info: 680-88766-a-13-a Operator: SCC

5 Acenaphthylene



Data File: 1CD03009.D

Date: 03-APR-2013 13:35

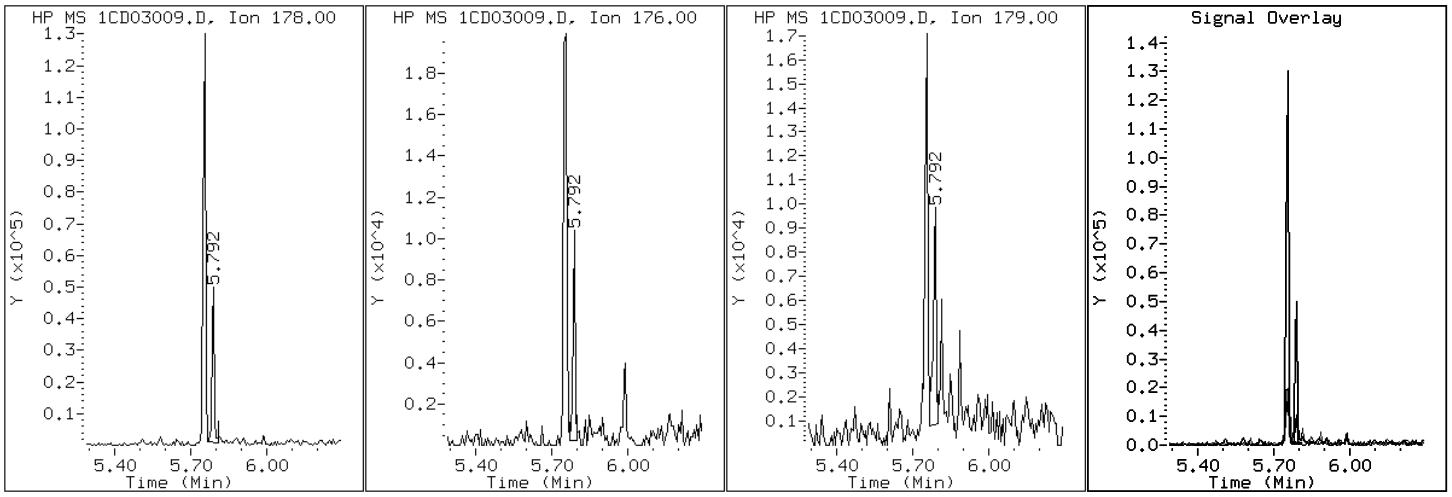
Client ID: CV0613K-CSD

Instrument: BSMC5973.i

Sample Info: 680-88766-a-13-a

Operator: SCC

12 Anthracene



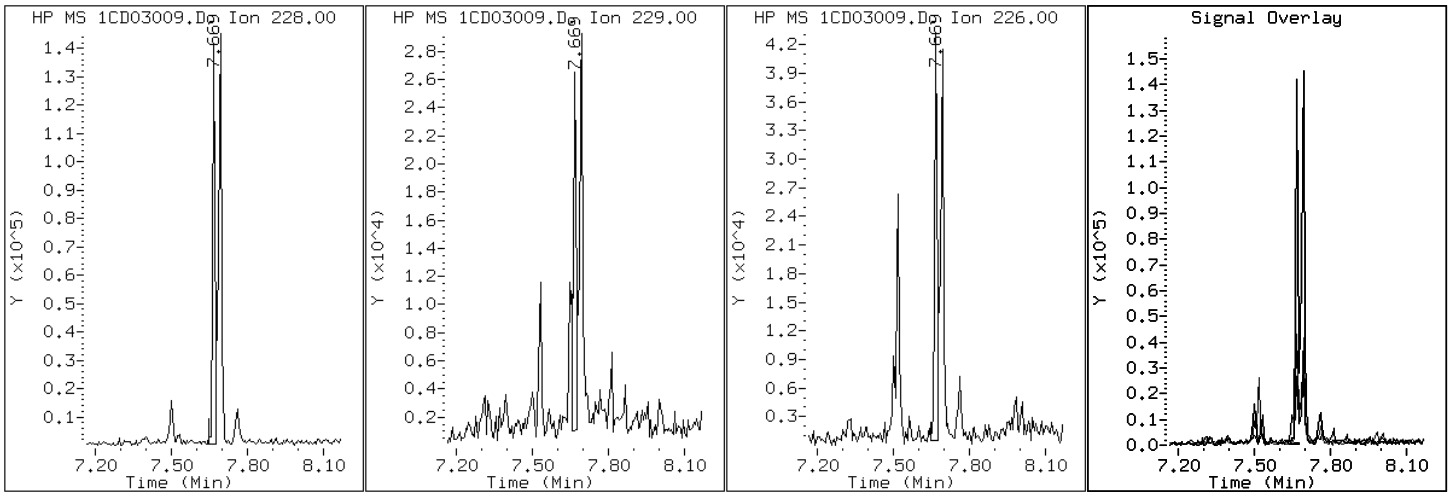
Data File: 1CD03009.D

Date: 03-APR-2013 13:35

Client ID: CV0613K-CSD Instrument: BSMC5973.i

Sample Info: 680-88766-a-13-a Operator: SCC

17 Benzo(a)anthracene



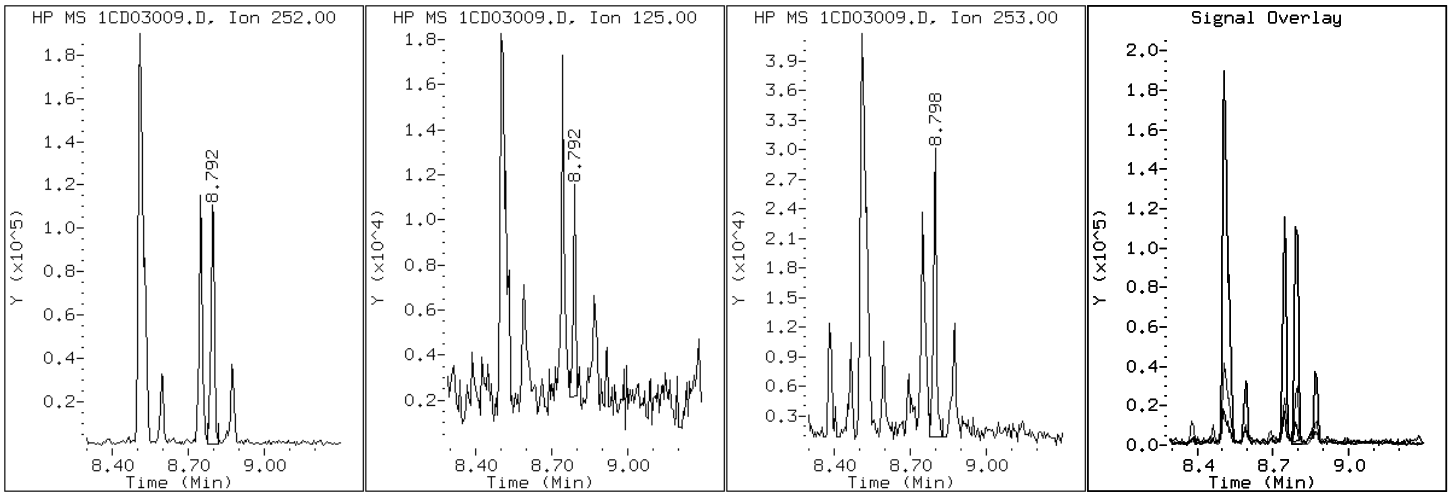
Data File: 1CD03009.D

Date: 03-APR-2013 13:35

Client ID: CV0613K-CSD Instrument: BSMC5973.i

Sample Info: 680-88766-a-13-a Operator: SCC

22 Benzo(a)pyrene



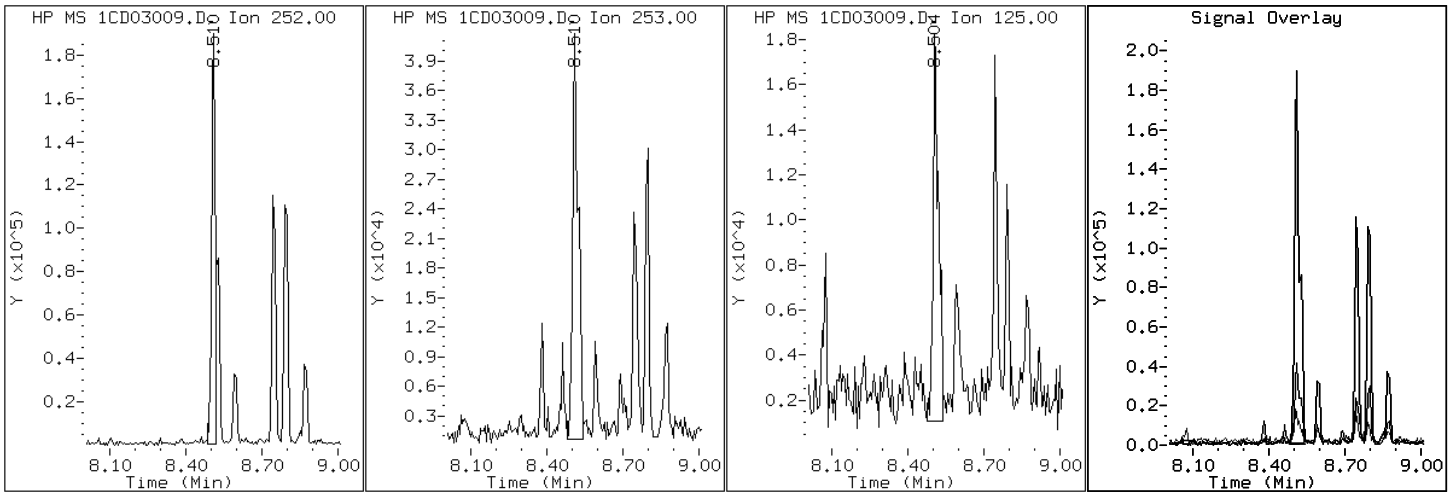
Data File: 1CD03009.D

Date: 03-APR-2013 13:35

Client ID: CV0613K-CSD Instrument: BSMC5973.i

Sample Info: 680-88766-a-13-a Operator: SCC

20 Benzo(b)fluoranthene



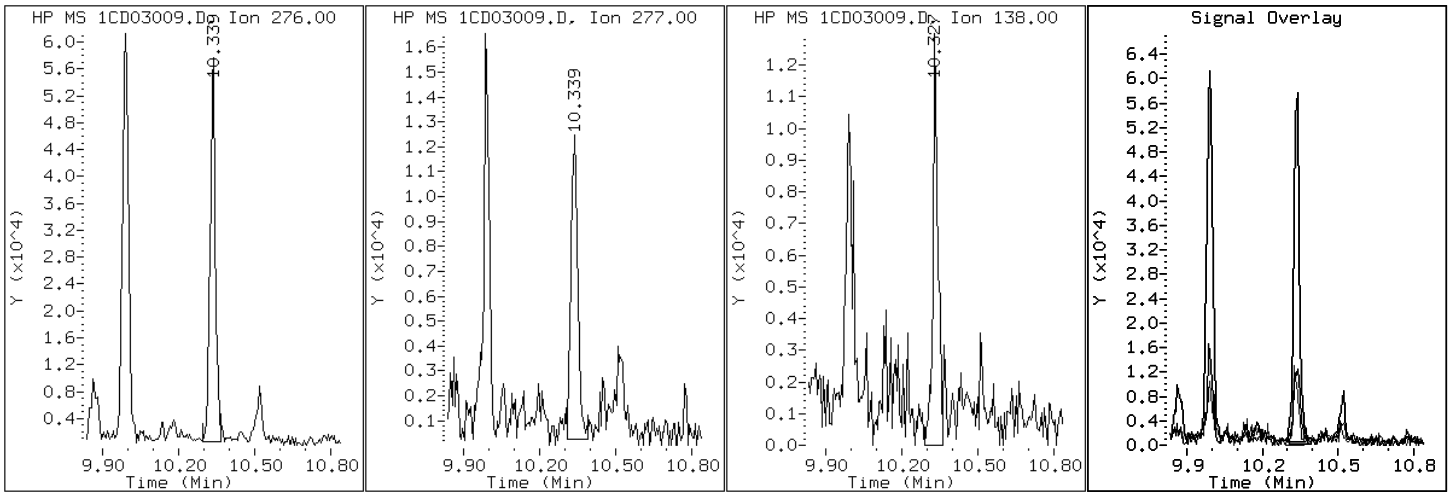
Data File: 1CD03009.D

Date: 03-APR-2013 13:35

Client ID: CV0613K-CSD Instrument: BSMC5973.i

Sample Info: 680-88766-a-13-a Operator: SCC

26 Benzo(g,h,i)perylene



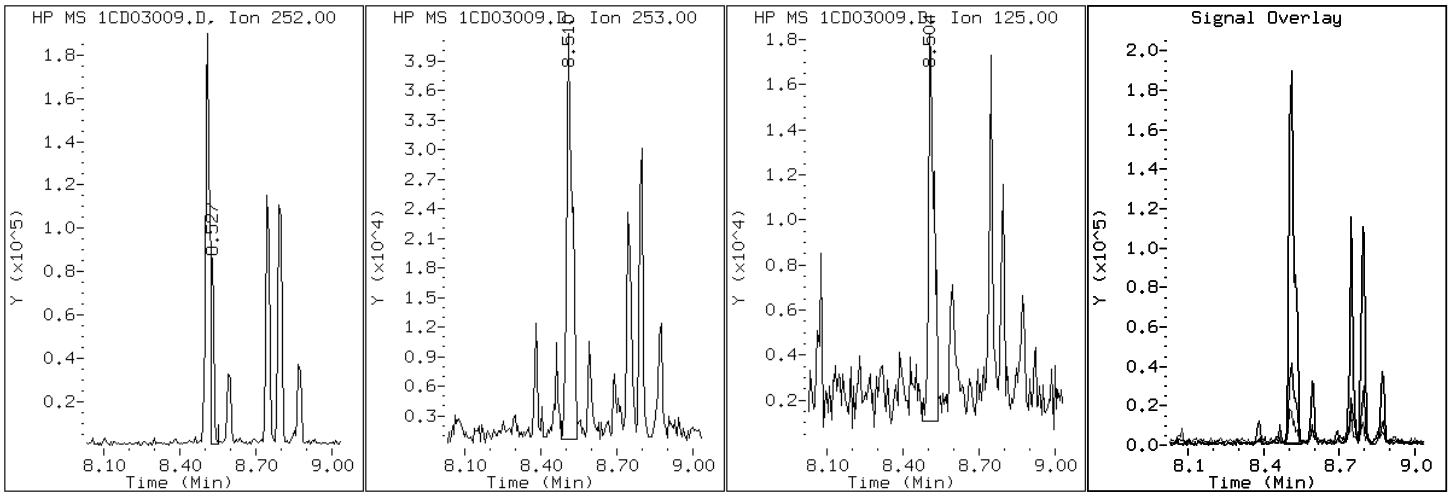
Data File: 1CD03009.D

Date: 03-APR-2013 13:35

Client ID: CV0613K-CSD Instrument: BSMC5973.i

Sample Info: 680-88766-a-13-a Operator: SCC

21 Benzo(k)fluoranthene



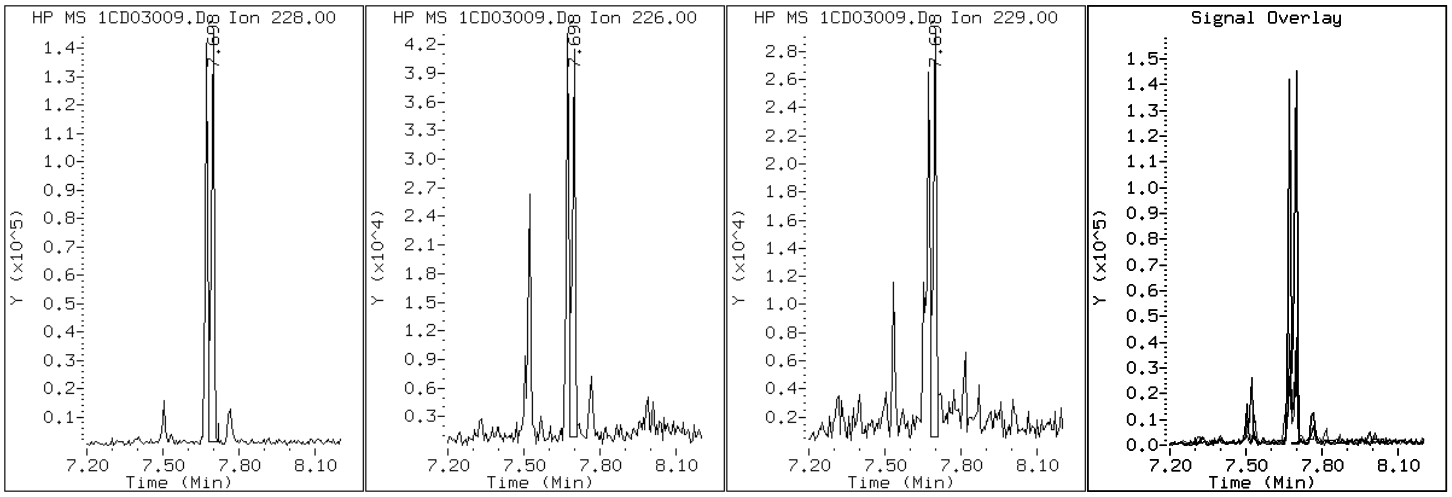
Data File: 1CD03009.D

Date: 03-APR-2013 13:35

Client ID: CV0613K-CSD Instrument: BSMC5973.i

Sample Info: 680-88766-a-13-a Operator: SCC

19 Chrysene



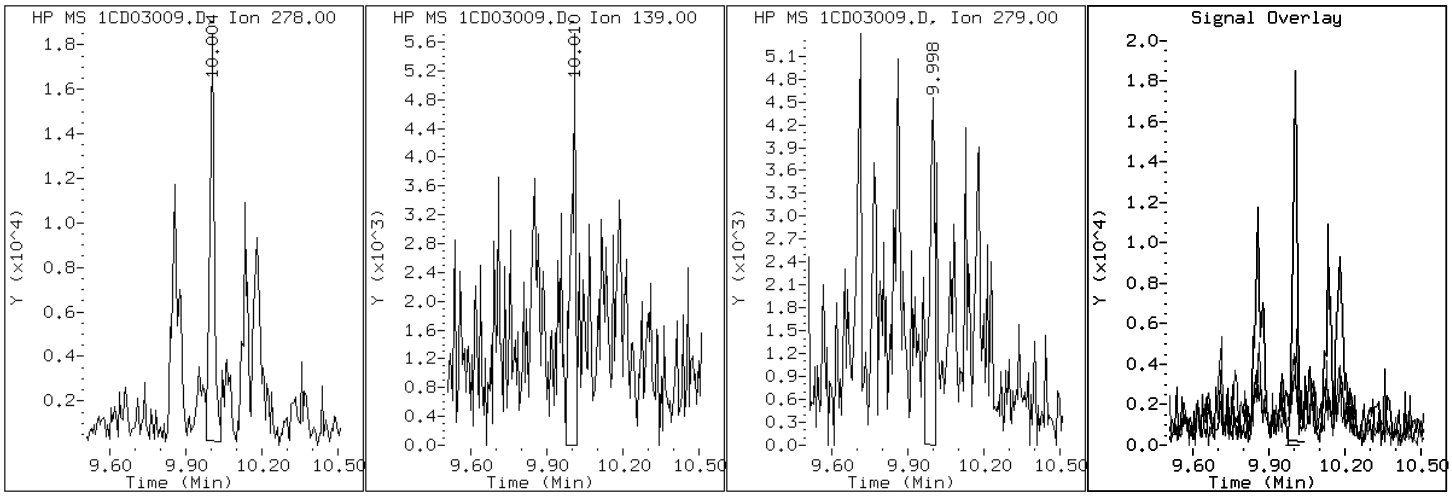
Data File: 1CD03009.D

Date: 03-APR-2013 13:35

Client ID: CV0613K-CSD Instrument: BSMC5973.i

Sample Info: 680-88766-a-13-a Operator: SCC

25 Dibenzo(a,h)anthracene



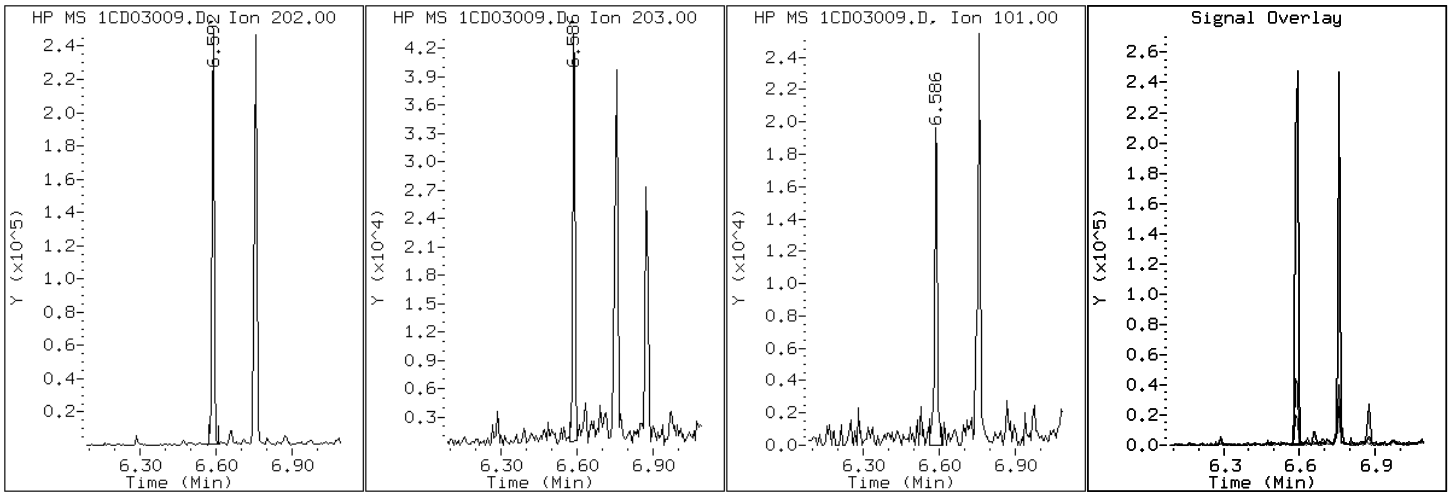
Data File: 1CD03009.D

Date: 03-APR-2013 13:35

Client ID: CV0613K-CSD Instrument: BSMC5973.i

Sample Info: 680-88766-a-13-a Operator: SCC

15 Fluoranthene



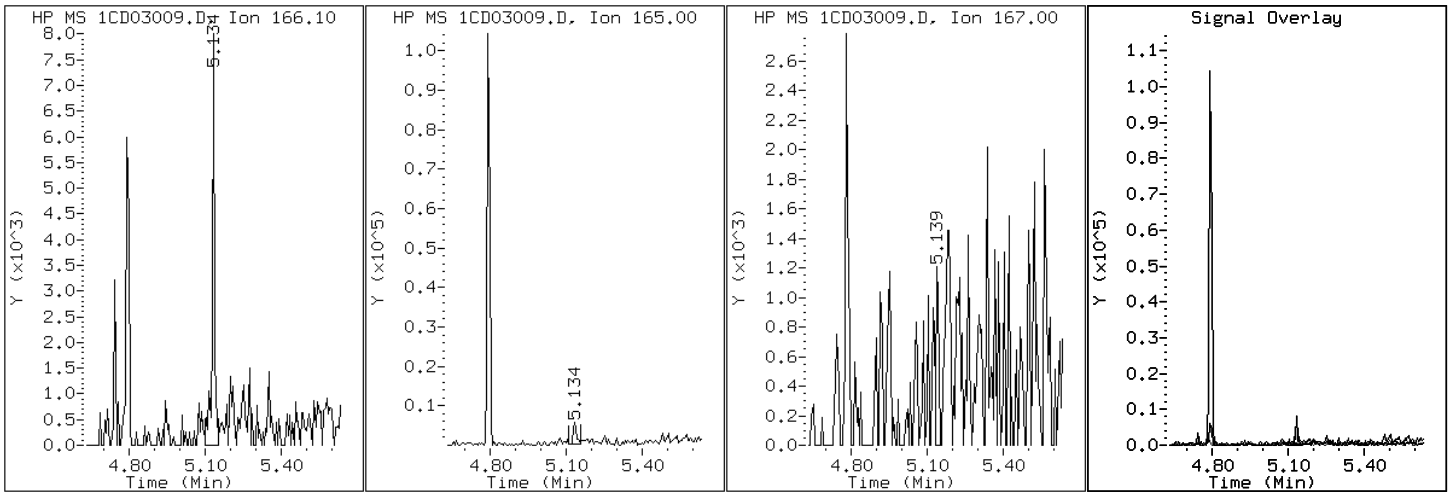
Data File: 1CD03009.D

Date: 03-APR-2013 13:35

Client ID: CV0613K-CSD Instrument: BSMC5973.i

Sample Info: 680-88766-a-13-a Operator: SCC

9 Fluorene



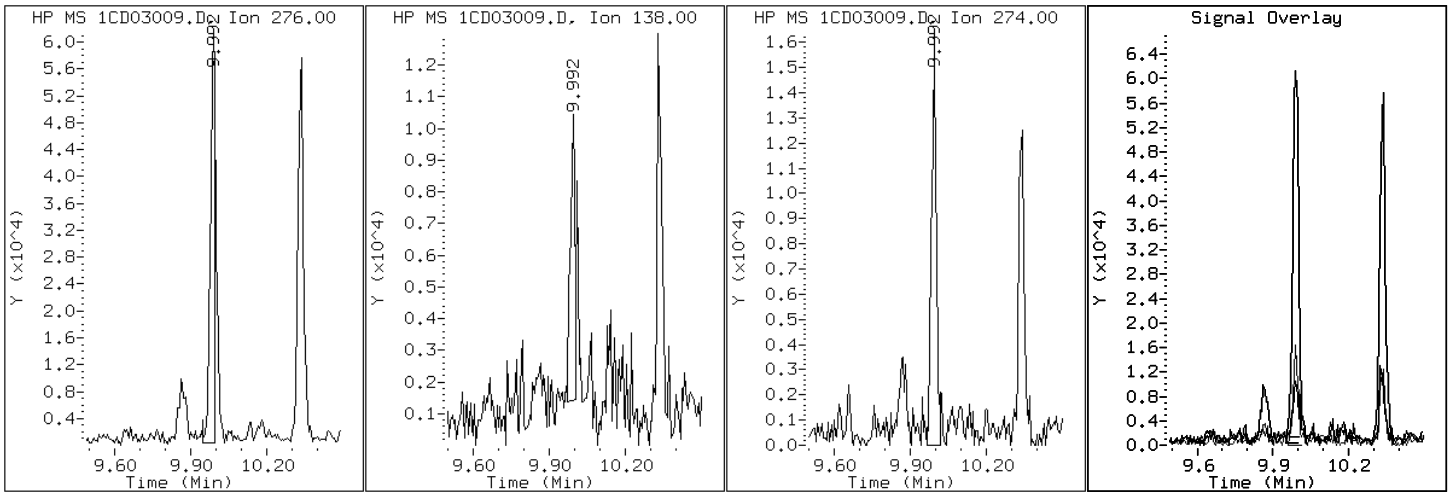
Data File: 1CD03009.D

Date: 03-APR-2013 13:35

Client ID: CV0613K-CSD Instrument: BSMC5973.i

Sample Info: 680-88766-a-13-a Operator: SCC

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



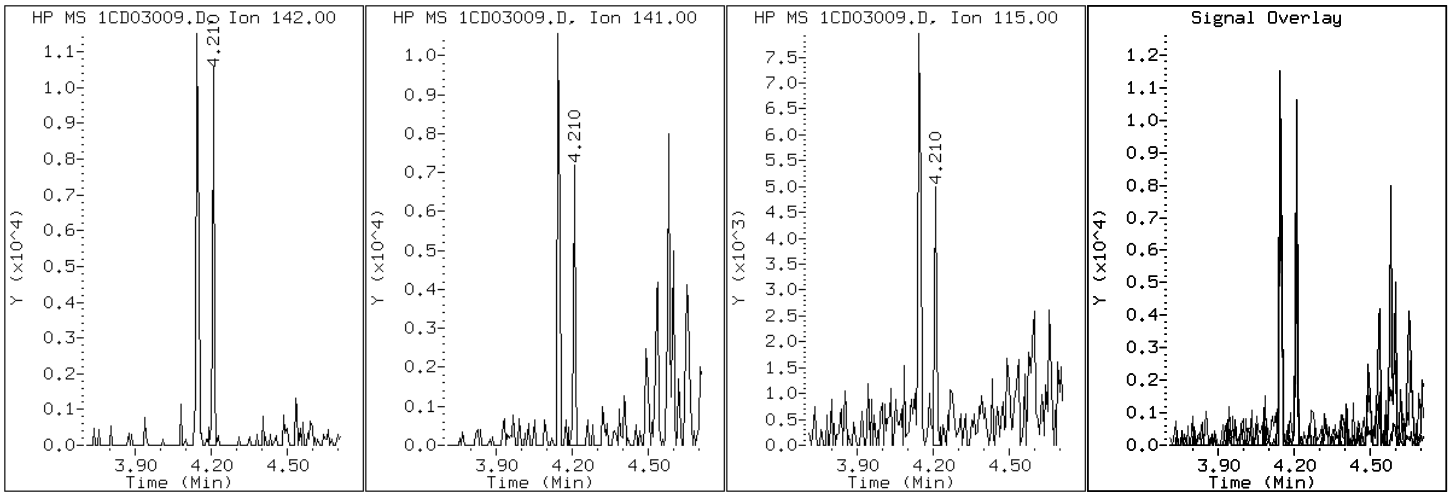
Data File: 1CD03009.D

Date: 03-APR-2013 13:35

Client ID: CV0613K-CSD Instrument: BSMC5973.i

Sample Info: 680-88766-a-13-a Operator: SCC

4 1-Methylnaphthalene



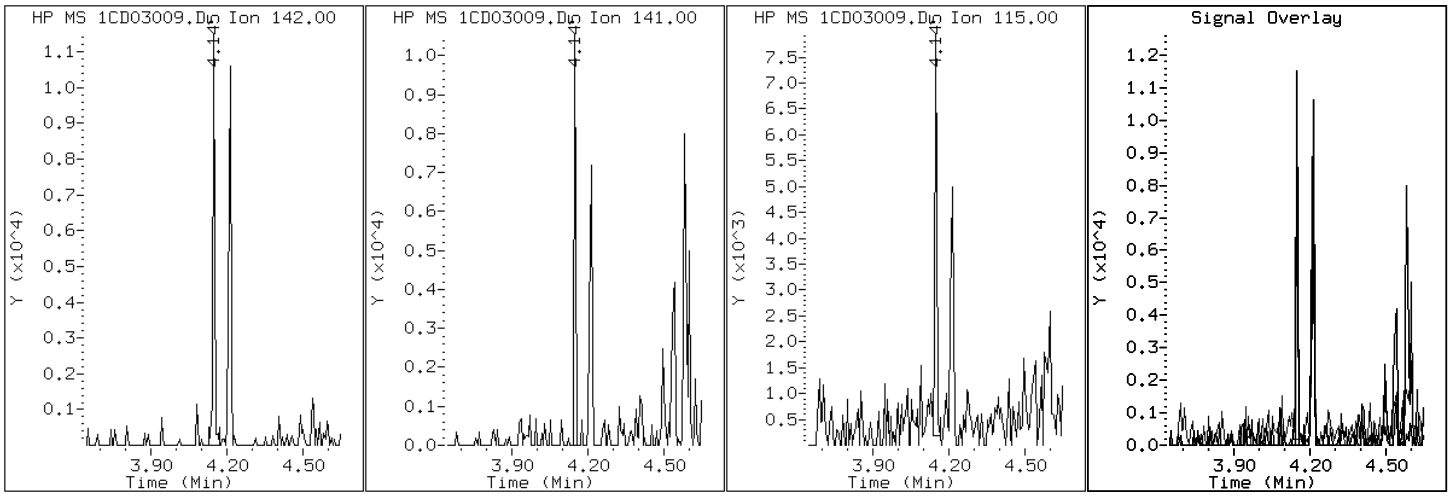
Data File: 1CD03009.D

Date: 03-APR-2013 13:35

Client ID: CV0613K-CSD Instrument: BSMC5973.i

Sample Info: 680-88766-a-13-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD03009.D

Date: 03-APR-2013 13:35

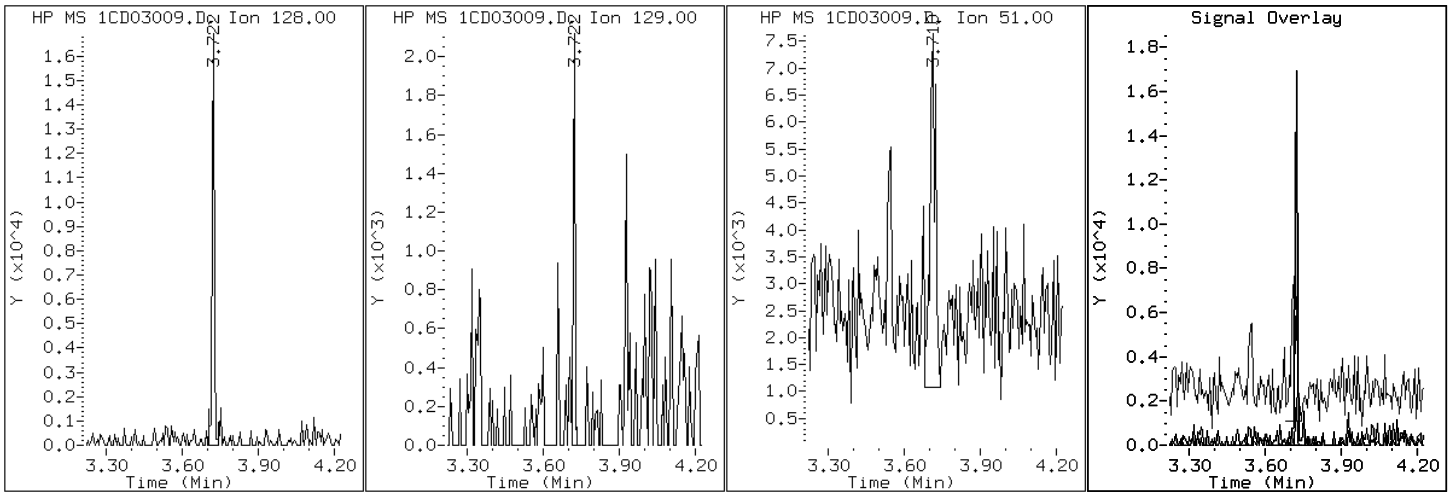
Client ID: CV0613K-CSD

Instrument: BSMC5973.i

Sample Info: 680-88766-a-13-a

Operator: SCC

2 Naphthalene



Data File: 1CD03009.D

Date: 03-APR-2013 13:35

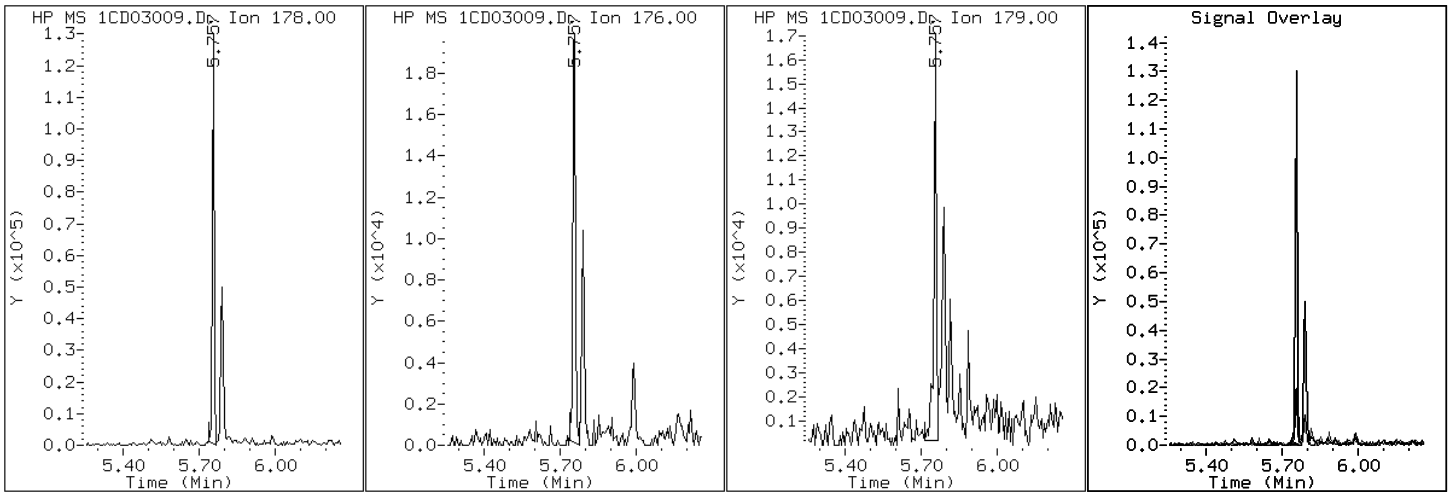
Client ID: CV0613K-CSD

Instrument: BSMC5973.i

Sample Info: 680-88766-a-13-a

Operator: SCC

11 Phenanthrene



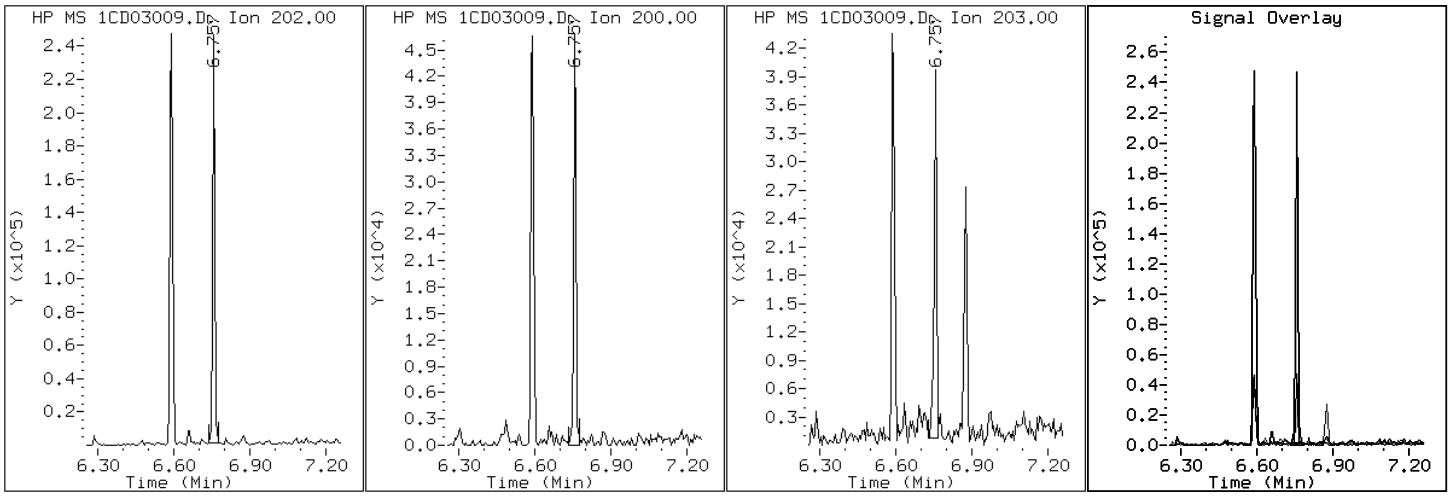
Data File: 1CD03009.D

Date: 03-APR-2013 13:35

Client ID: CV0613K-CSD Instrument: BSMC5973.i

Sample Info: 680-88766-a-13-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD03009.D
Inj. Date and Time: 03-APR-2013 13:35
Instrument ID: BSMC5973.i
Client ID: CV0613K-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

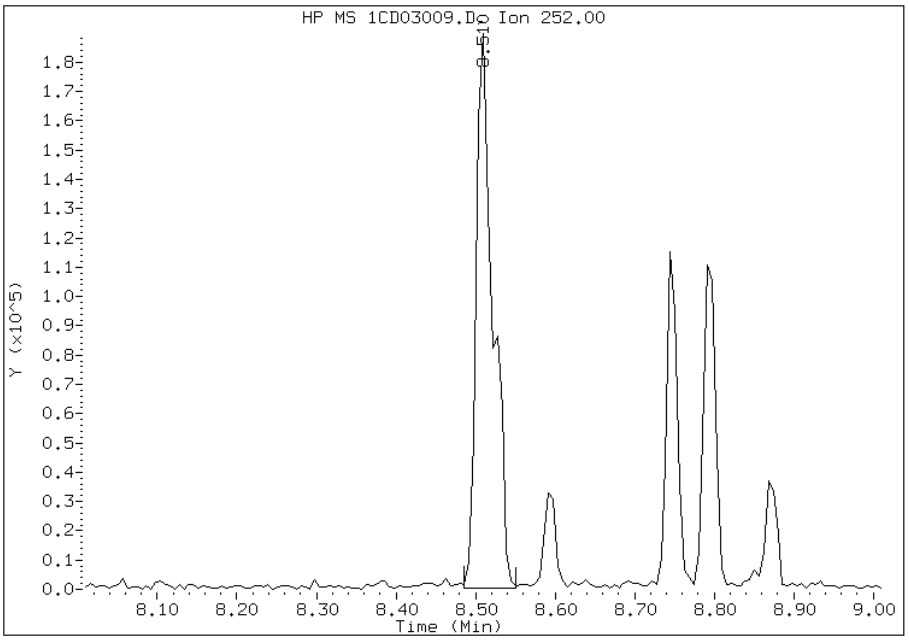
Processing Integration Results

RT: 8.51

Response: 277294

Amount: 9

Conc: 705



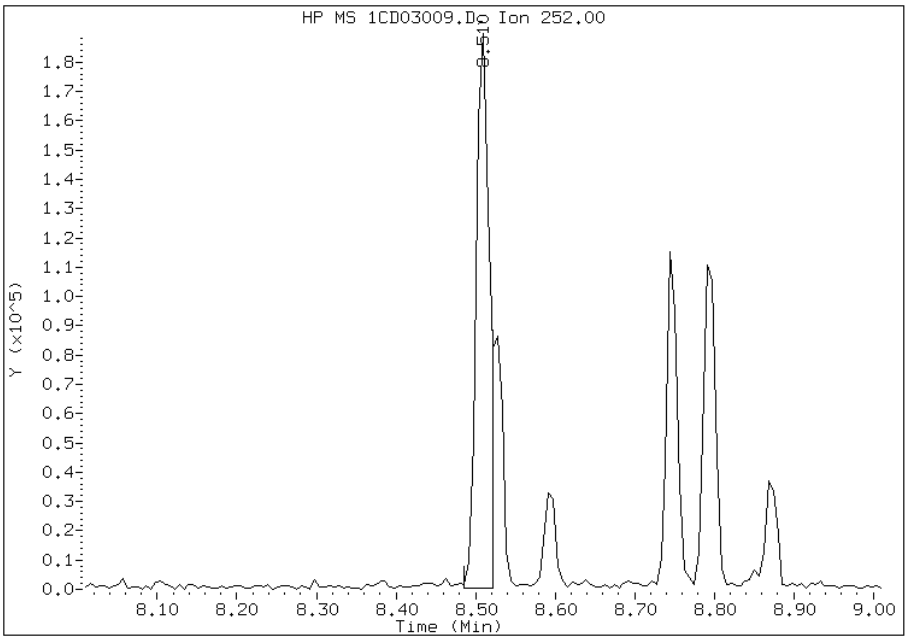
Manual Integration Results

RT: 8.51

Response: 219494

Amount: 7

Conc: 558



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:20
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD03009.D
Inj. Date and Time: 03-APR-2013 13:35
Instrument ID: BSMC5973.i
Client ID: CV0613K-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

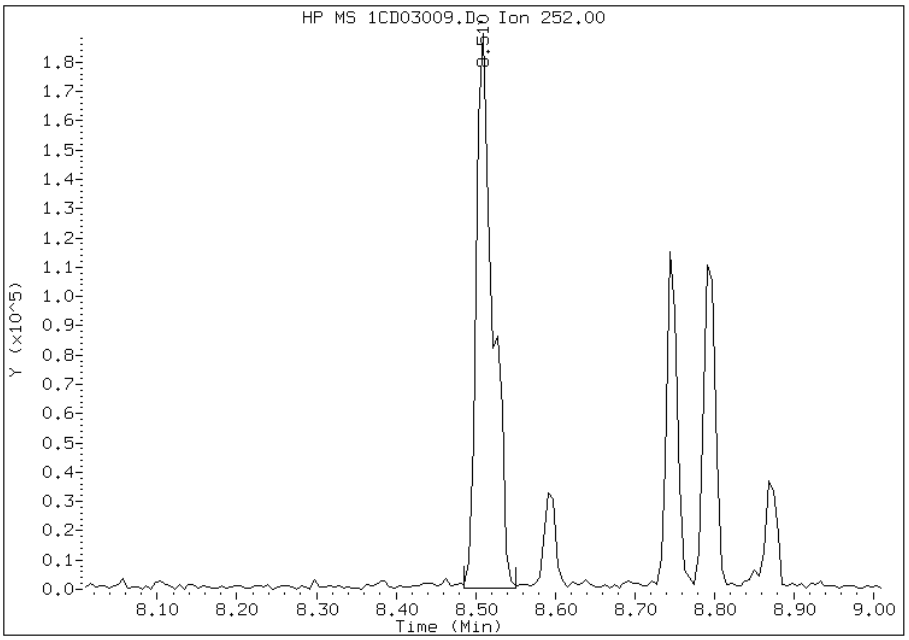
Processing Integration Results

RT: 8.51

Response: 276905

Amount: 9

Conc: 728



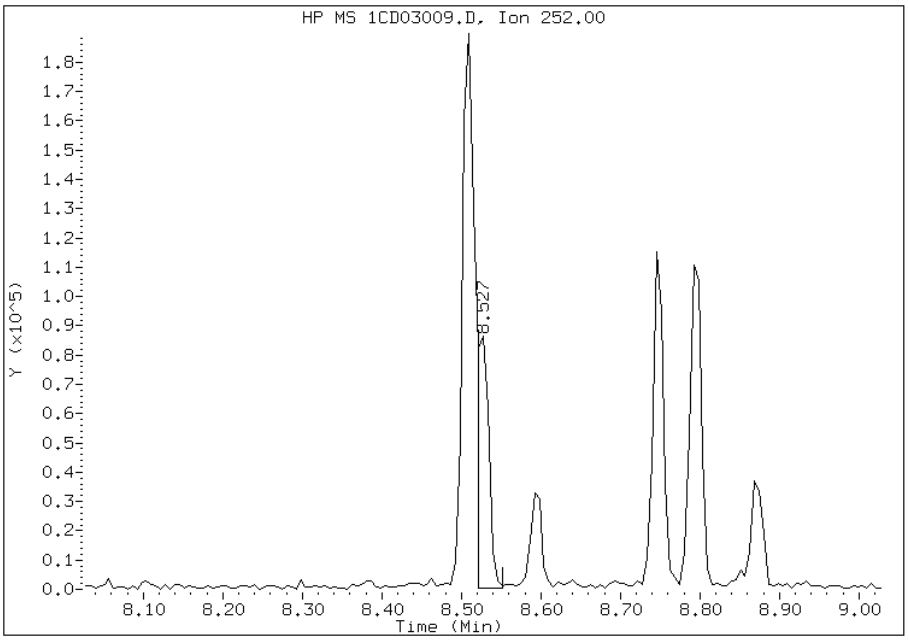
Manual Integration Results

RT: 8.53

Response: 86361

Amount: 3

Conc: 227



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:20
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD03009.D
Inj. Date and Time: 03-APR-2013 13:35
Instrument ID: BSMC5973.i
Client ID: CV0613K-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

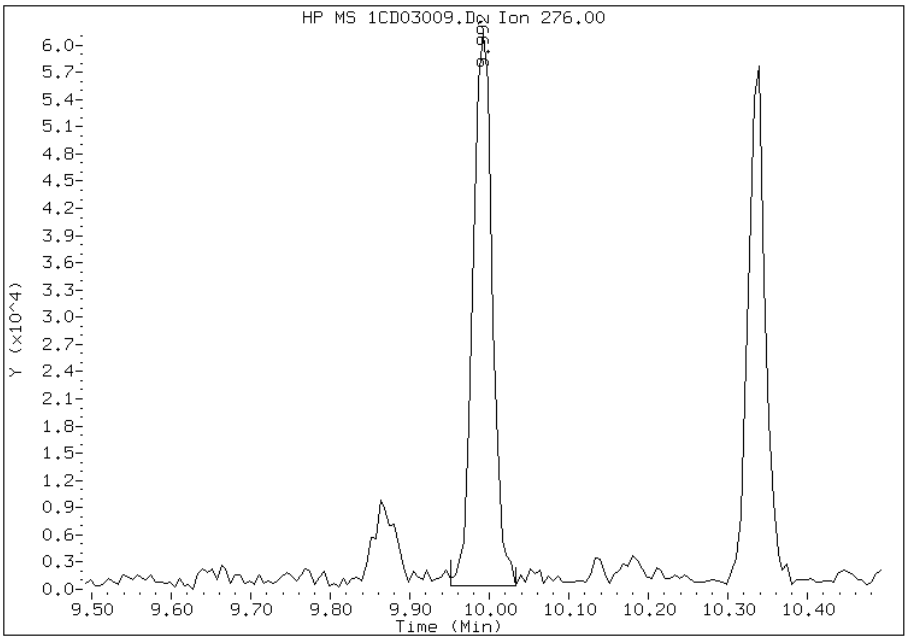
Processing Integration Results

RT: 9.99

Response: 103041

Amount: 4

Conc: 293



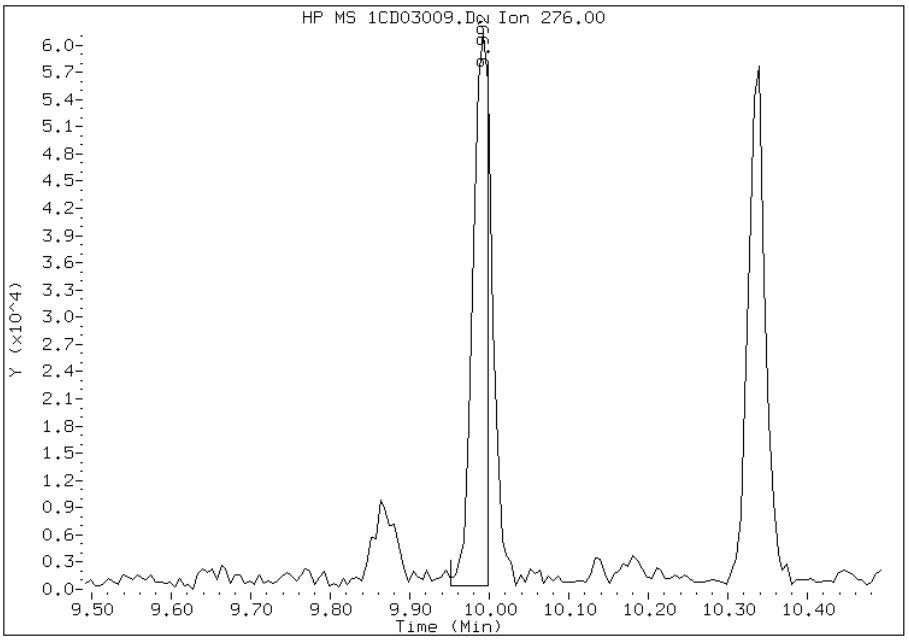
Manual Integration Results

RT: 9.99

Response: 83610

Amount: 3

Conc: 238



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:21
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD03009.D
Inj. Date and Time: 03-APR-2013 13:35
Instrument ID: BSMC5973.i
Client ID: CV0613K-CSD
Compound: 3 2-Methylnaphthalene
CAS #: 91-57-6
Report Date: 04/03/2013

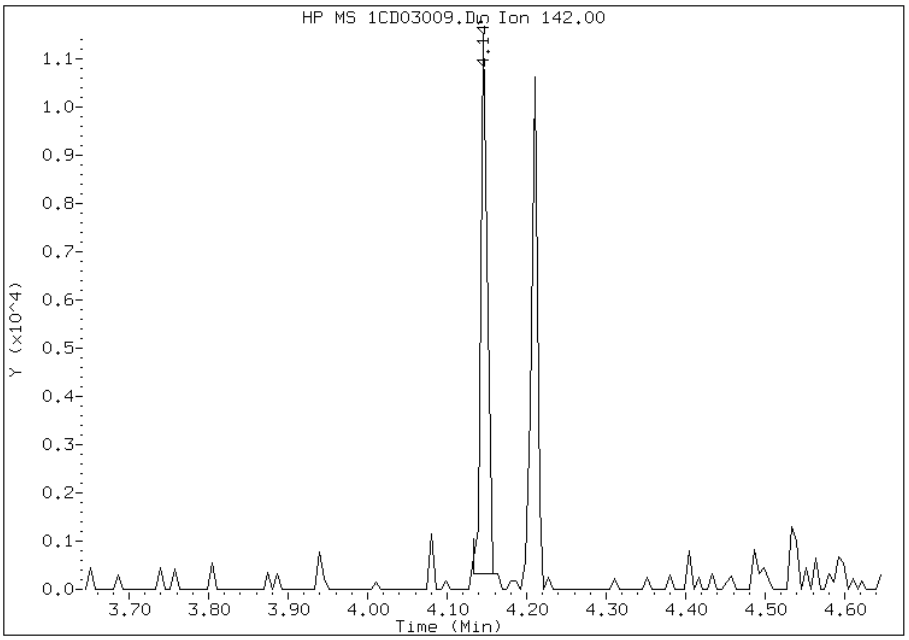
Processing Integration Results

RT: 4.15

Response: 6271

Amount: 1

Conc: 41



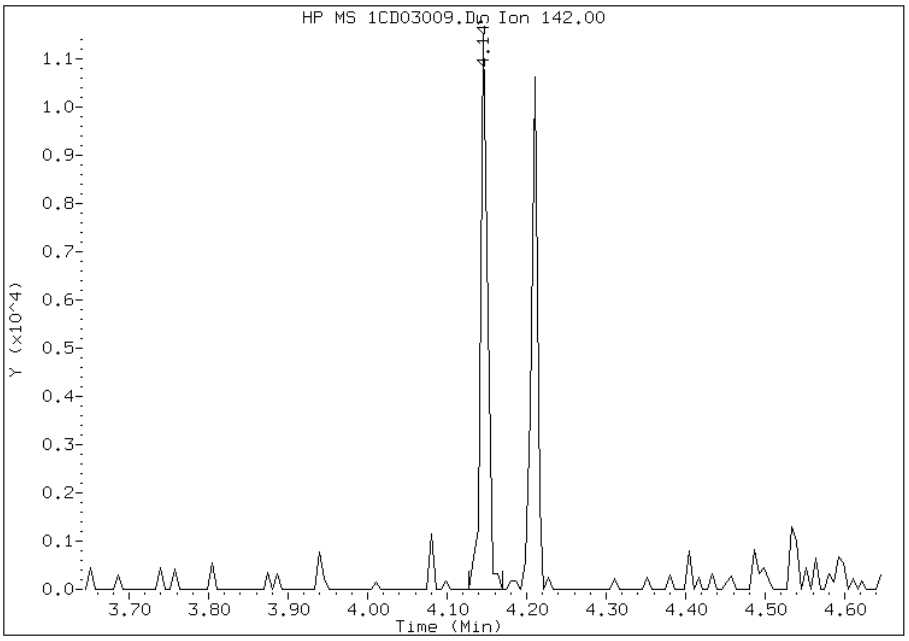
Manual Integration Results

RT: 4.15

Response: 6939

Amount: 1

Conc: 46



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:27
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-1

SDG No.: 68088766-1

Client Sample ID: CV0613AB-GS | Lab Sample ID: 680-88766-14

Matrix: Solid | Lab File ID: 1CD03010.D

Analysis Method: 8270C LL | Date Collected: 03/25/2013 13:32

Extract. Method: 3546 | Date Extracted: 03/29/2013 10:19

Sample wt/vol: 14.87(g) | Date Analyzed: 04/03/2013 13:54

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

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

% Moisture: 18.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136081 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	76		49	6.1
120-12-7	Anthracene	150		10	5.2
56-55-3	Benzo[a]anthracene	600		9.8	4.8
50-32-8	Benzo[a]pyrene	510		13	6.4
205-99-2	Benzo[b]fluoranthene	910		15	7.5
191-24-2	Benzo[g,h,i]perylene	350		25	5.4
207-08-9	Benzo[k]fluoranthene	490		9.8	4.4
218-01-9	Chrysene	820		11	5.5
53-70-3	Dibenz(a,h)anthracene	120		25	5.0
206-44-0	Fluoranthene	1400		25	4.9
86-73-7	Fluorene	35		25	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	330		25	8.7
90-12-0	1-Methylnaphthalene	150		49	5.4
91-57-6	2-Methylnaphthalene	220		49	8.7
91-20-3	Naphthalene	150		49	5.4
85-01-8	Phenanthrene	380		9.8	4.8
129-00-0	Pyrene	1300		25	4.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03010.D
Lab Smp Id: 680-88766-A-14-A Client Smp ID: CV0613AB-GS
Inj Date : 03-APR-2013 13:54
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88766-a-14-a
Misc Info : 680-88766-A-14-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m
Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.870	Weight Extracted
M	17.978	% 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	3.710	3.704	(1.000)	695851	40.0000	
* 6 Acenaphthene-d10	164	4.792	4.792	(1.000)	550329	40.0000	
* 10 Phenanthrene-d10	188	5.739	5.739	(1.000)	993420	40.0000	
$ 14 o-Terphenyl	230	5.992	5.992	(1.044)	68112	4.92593	403.8730
* 18 Chrysene-d12	240	7.680	7.680	(1.000)	1188410	40.0000	
* 23 Perylene-d12	264	8.850	8.851	(1.000)	1183612	40.0000	
2 Naphthalene	128	3.721	3.722	(1.003)	33408	1.86921	153.2549
3 2-Methylnaphthalene	142	4.145	4.145	(1.117)	33259	2.73370	224.1336
4 1-Methylnaphthalene	142	4.210	4.210	(1.135)	20310	1.85525	152.1105
5 Acenaphthylene	152	4.704	4.704	(0.982)	21175	0.92968	76.2232
9 Fluorene	166	5.133	5.133	(1.071)	7950	0.42273	34.6593
11 Phenanthrene	178	5.757	5.757	(1.003)	132530	4.58058	375.5578
12 Anthracene	178	5.792	5.792	(1.009)	52011	1.77333	145.3937
13 Carbazole	167	5.898	5.898	(1.028)	24332	0.96832	79.3919

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.592	6.592	(1.149)	548821	17.1760	1408.2413
16 Pyrene	202	6.757	6.757	(0.880)	503733	15.3018	1254.5802
17 Benzo(a)anthracene	228	7.668	7.668	(0.998)	245413	7.26267	595.4595
19 Chrysene	228	7.698	7.698	(1.002)	337996	9.98084	818.3200
20 Benzo(b)fluoranthene	252	8.509	8.509	(0.961)	373246	11.1544	914.5409(M)
21 Benzo(k)fluoranthene	252	8.521	8.533	(0.963)	194081	5.99691	491.6812(M)
22 Benzo(a)pyrene	252	8.798	8.798	(0.994)	197291	6.26253	513.4588
24 Indeno(1,2,3-cd)pyrene	276	9.997	9.992	(1.130)	121793	4.07031	333.7212(M)
25 Dibenzo(a,h)anthracene	278	10.003	10.009	(1.130)	40170	1.45327	119.1522
26 Benzo(g,h,i)perylene	276	10.345	10.339	(1.169)	128670	4.21327	345.4418

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD03010.D

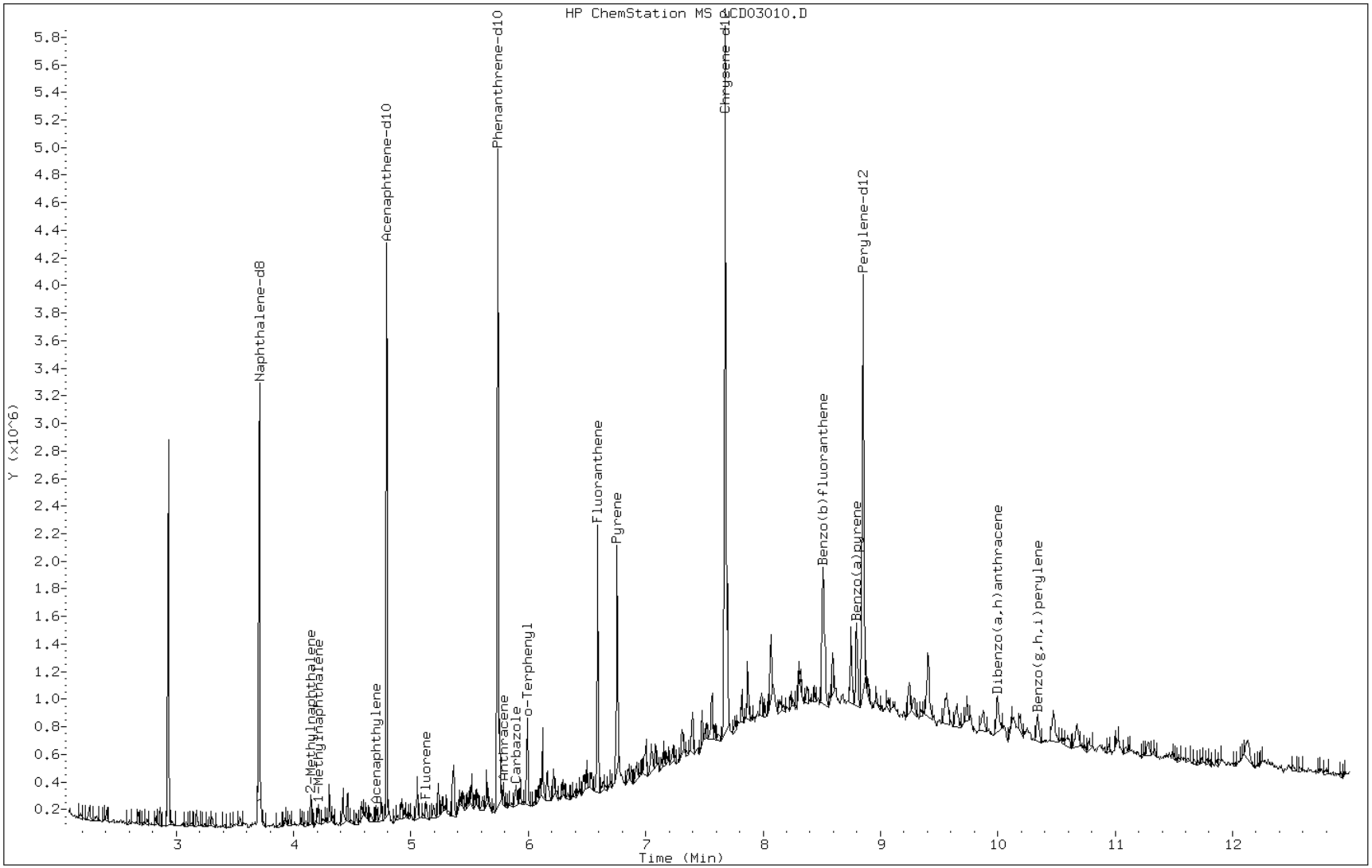
Date: 03-APR-2013 13:54

Client ID: CV0613AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-14-a

Operator: SCC



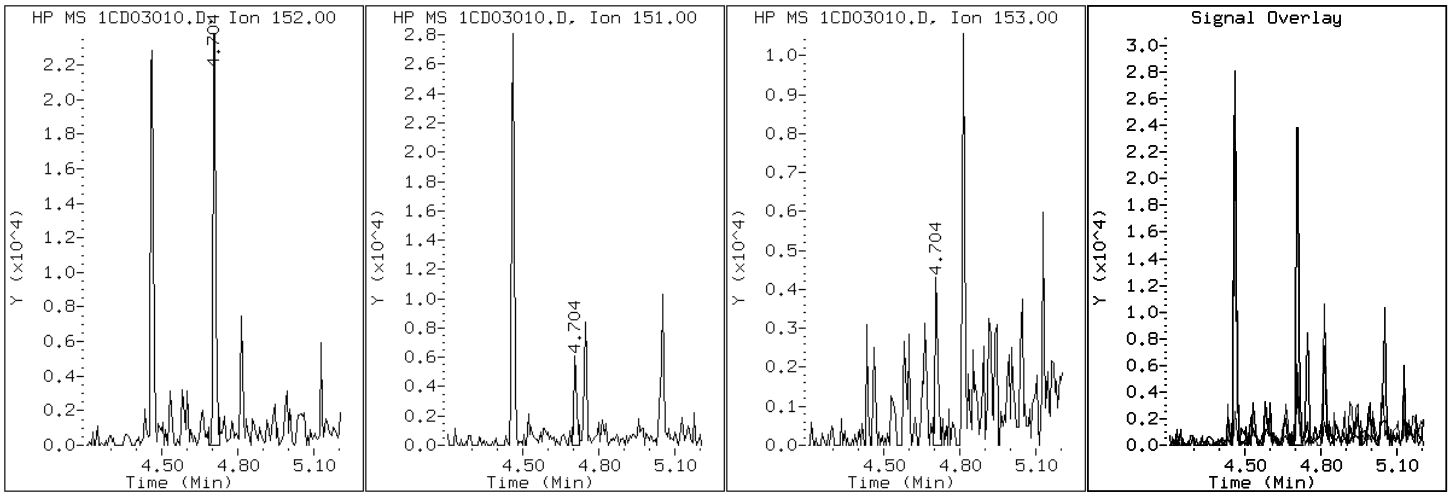
Data File: 1CD03010.D

Date: 03-APR-2013 13:54

Client ID: CV0613AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-14-a Operator: SCC

5 Acenaphthylene



Data File: 1CD03010.D

Date: 03-APR-2013 13:54

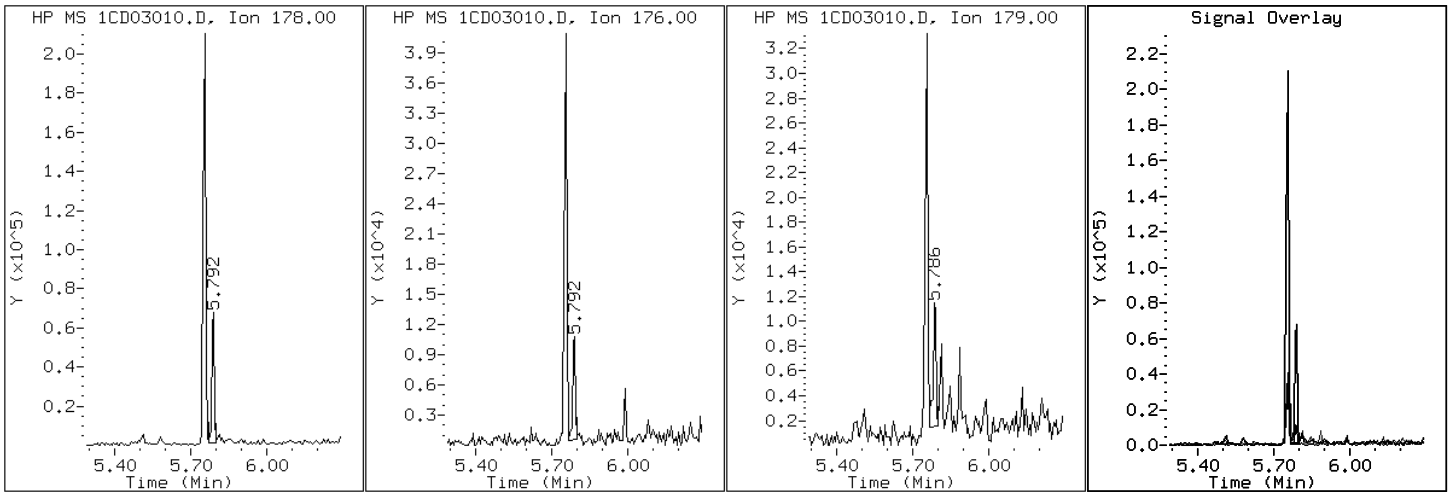
Client ID: CV0613AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-14-a

Operator: SCC

12 Anthracene



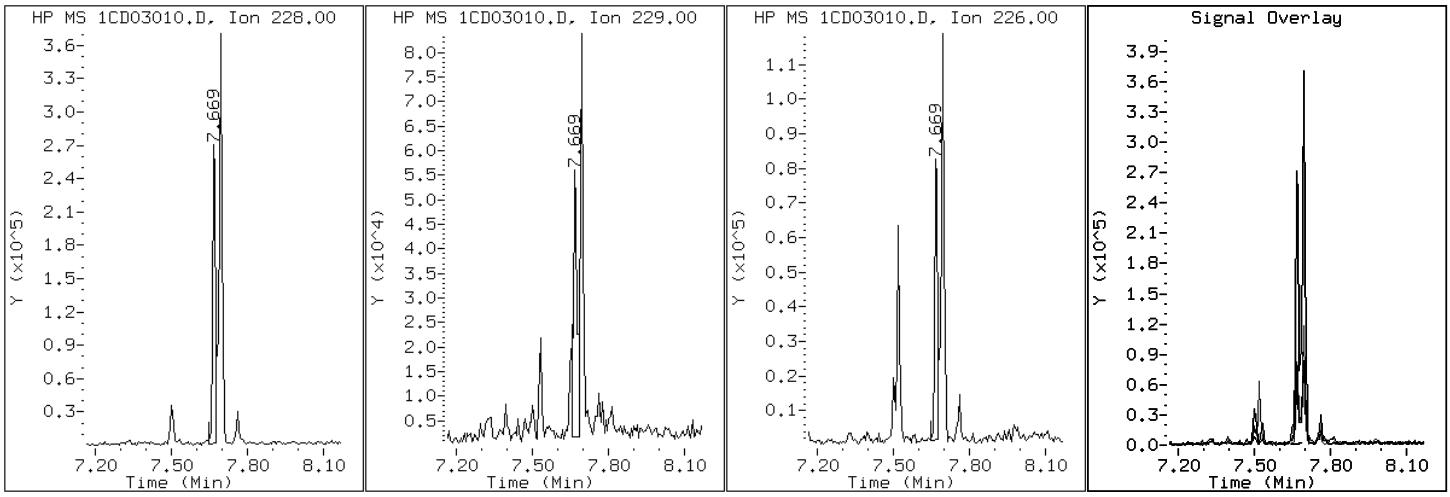
Data File: 1CD03010.D

Date: 03-APR-2013 13:54

Client ID: CV0613AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-14-a Operator: SCC

17 Benzo(a)anthracene



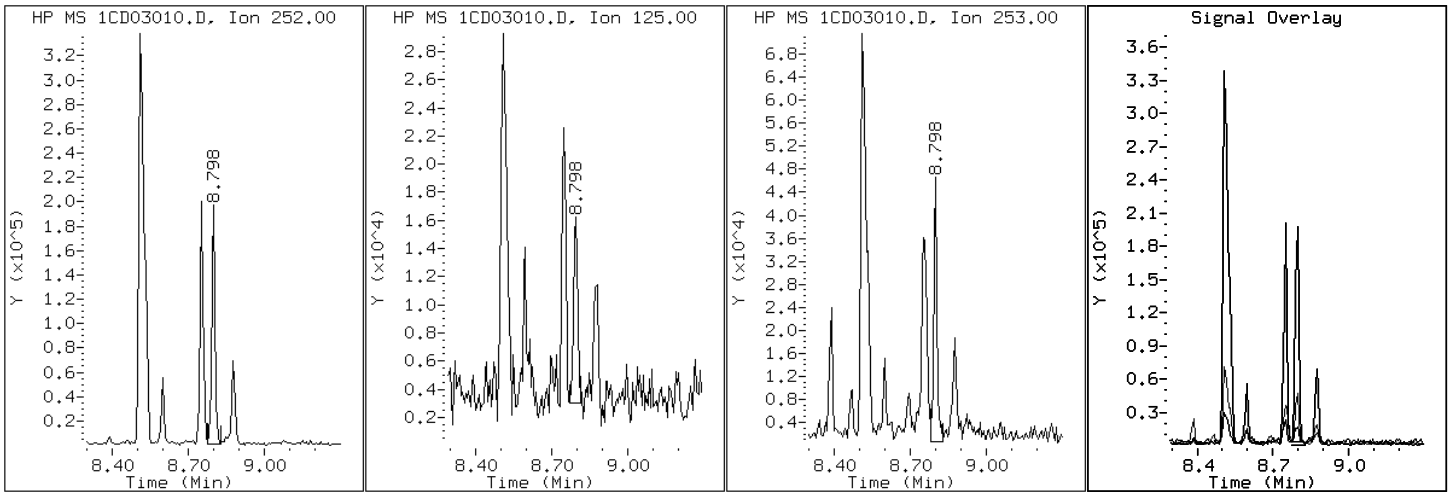
Data File: 1CD03010.D

Date: 03-APR-2013 13:54

Client ID: CV0613AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-14-a Operator: SCC

22 Benzo(a)pyrene



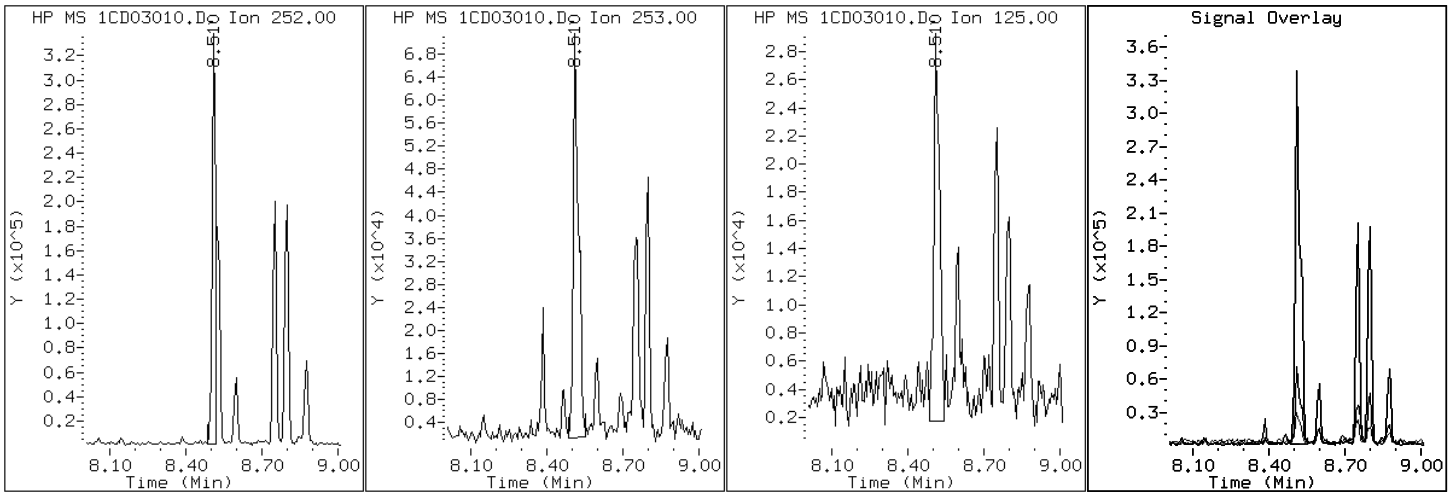
Data File: 1CD03010.D

Date: 03-APR-2013 13:54

Client ID: CV0613AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-14-a Operator: SCC

20 Benzo(b)fluoranthene



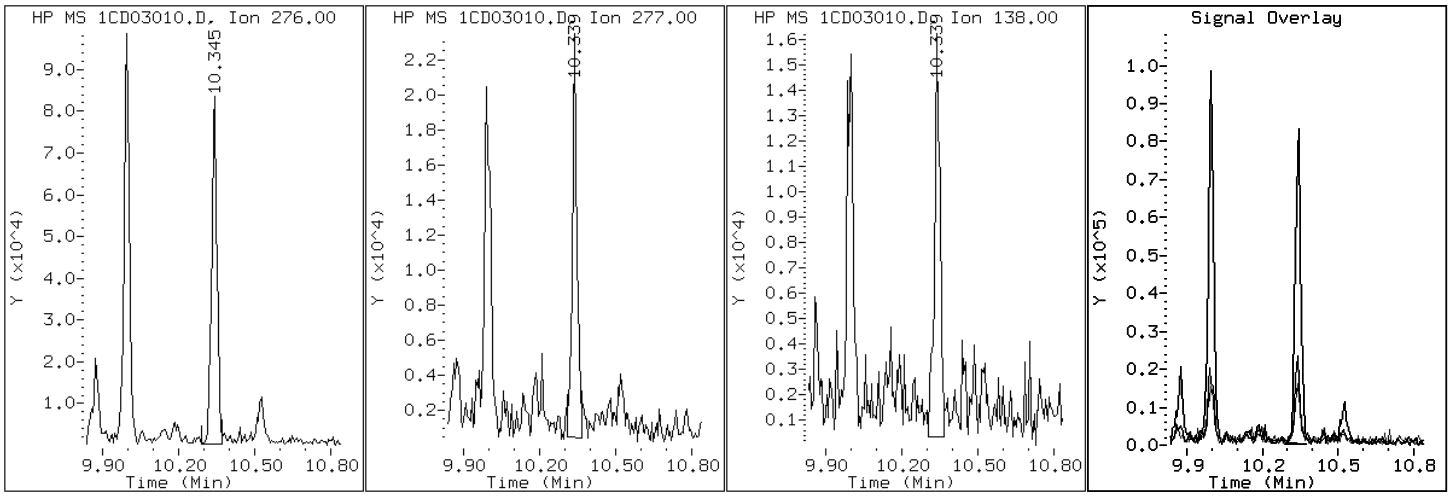
Data File: 1CD03010.D

Date: 03-APR-2013 13:54

Client ID: CV0613AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-14-a Operator: SCC

26 Benzo(g,h,i)perylene



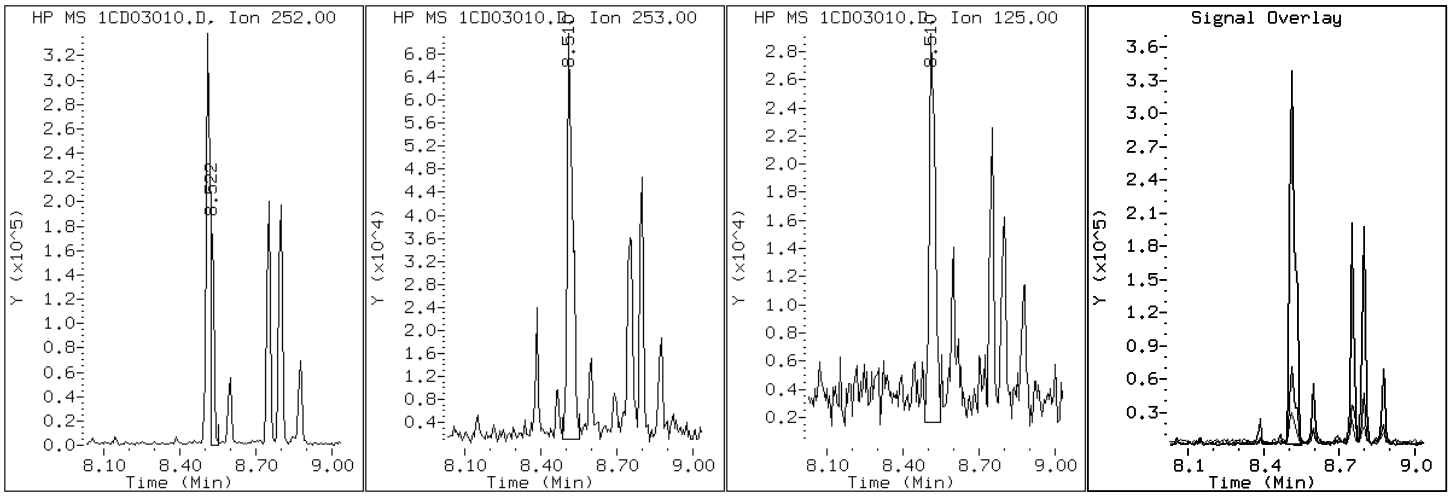
Data File: 1CD03010.D

Date: 03-APR-2013 13:54

Client ID: CV0613AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-14-a Operator: SCC

21 Benzo(k)fluoranthene



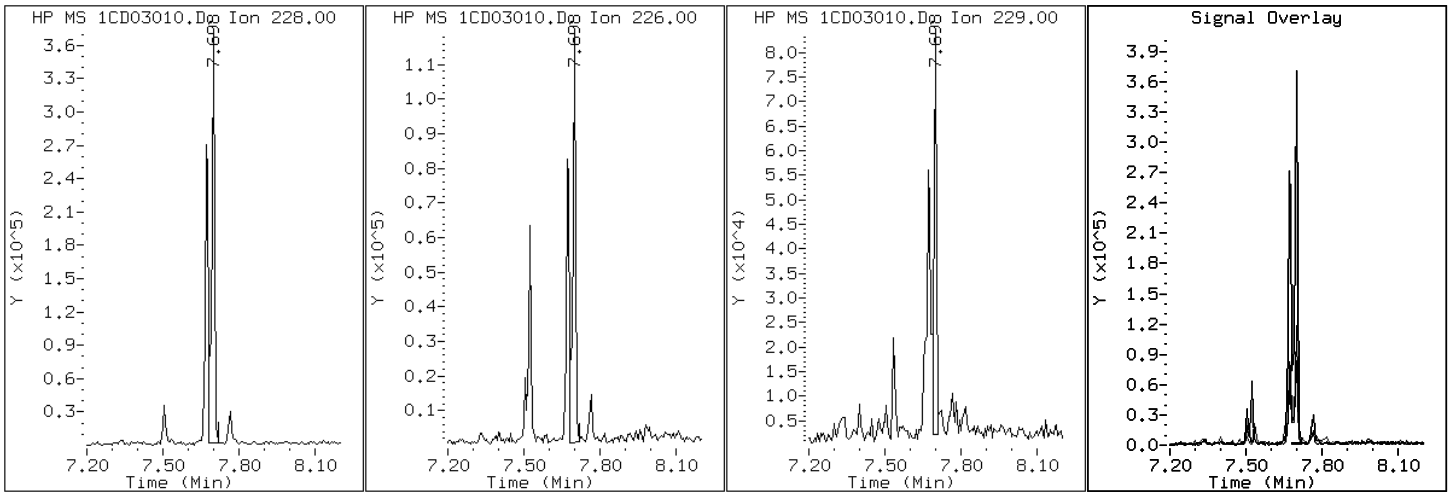
Data File: 1CD03010.D

Date: 03-APR-2013 13:54

Client ID: CV0613AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-14-a Operator: SCC

19 Chrysene



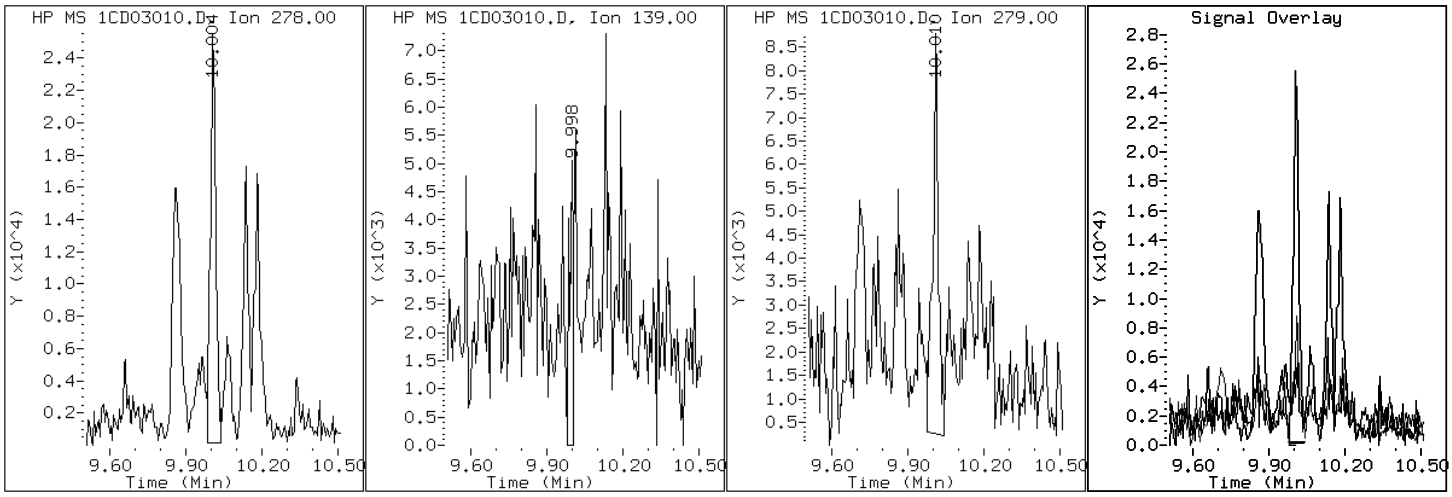
Data File: 1CD03010.D

Date: 03-APR-2013 13:54

Client ID: CV0613AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-14-a Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD03010.D

Date: 03-APR-2013 13:54

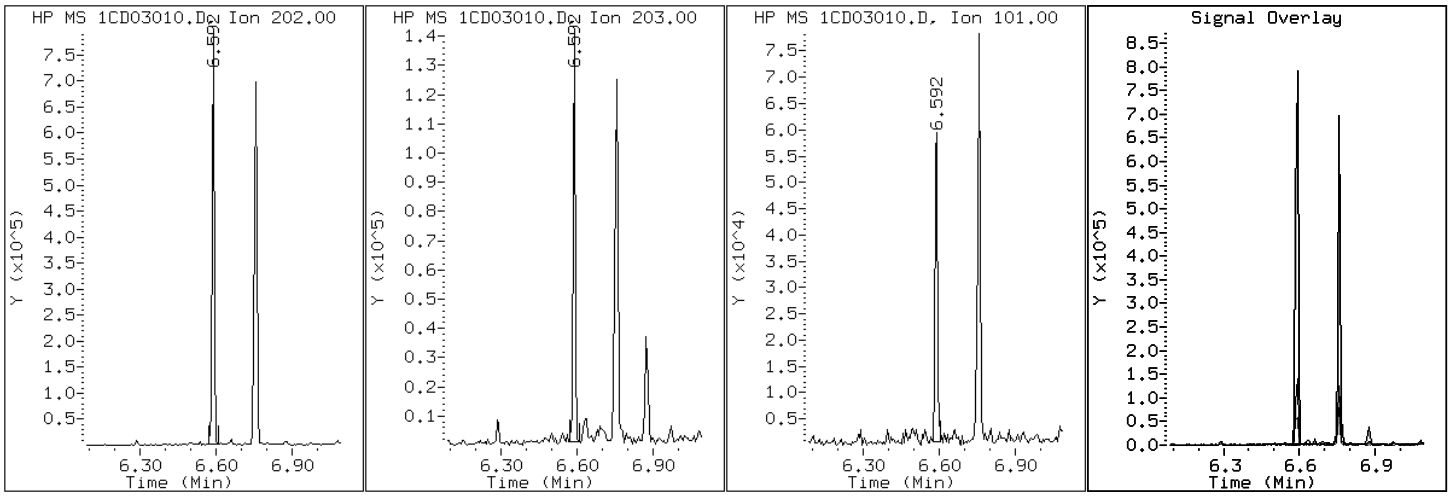
Client ID: CV0613AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-14-a

Operator: SCC

15 Fluoranthene



Data File: 1CD03010.D

Date: 03-APR-2013 13:54

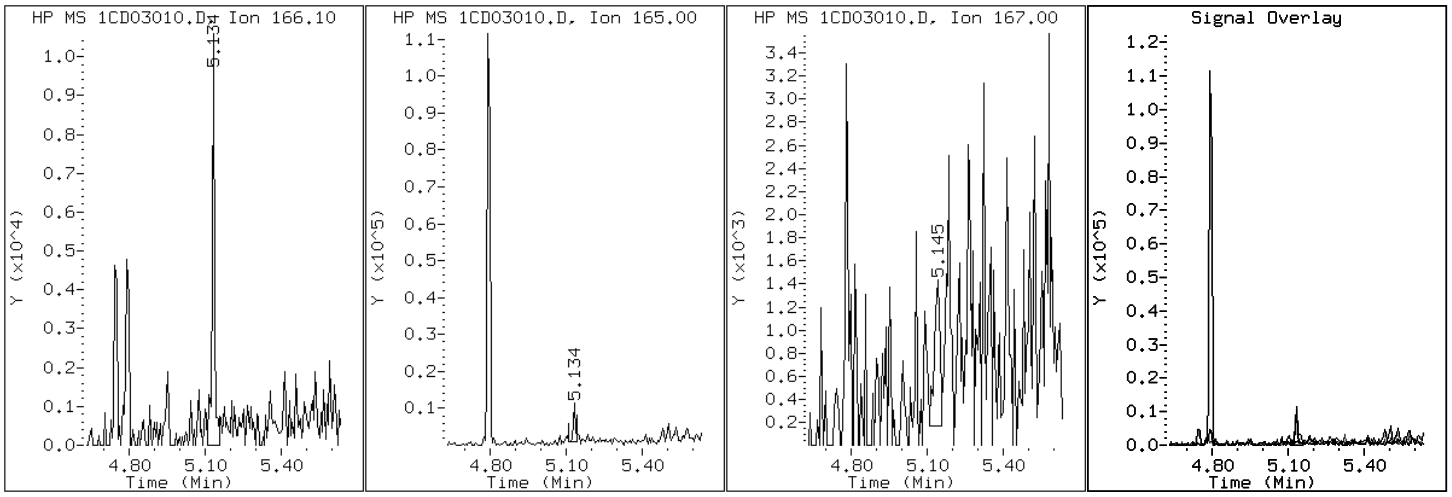
Client ID: CV0613AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-14-a

Operator: SCC

9 Fluorene



Data File: 1CD03010.D

Date: 03-APR-2013 13:54

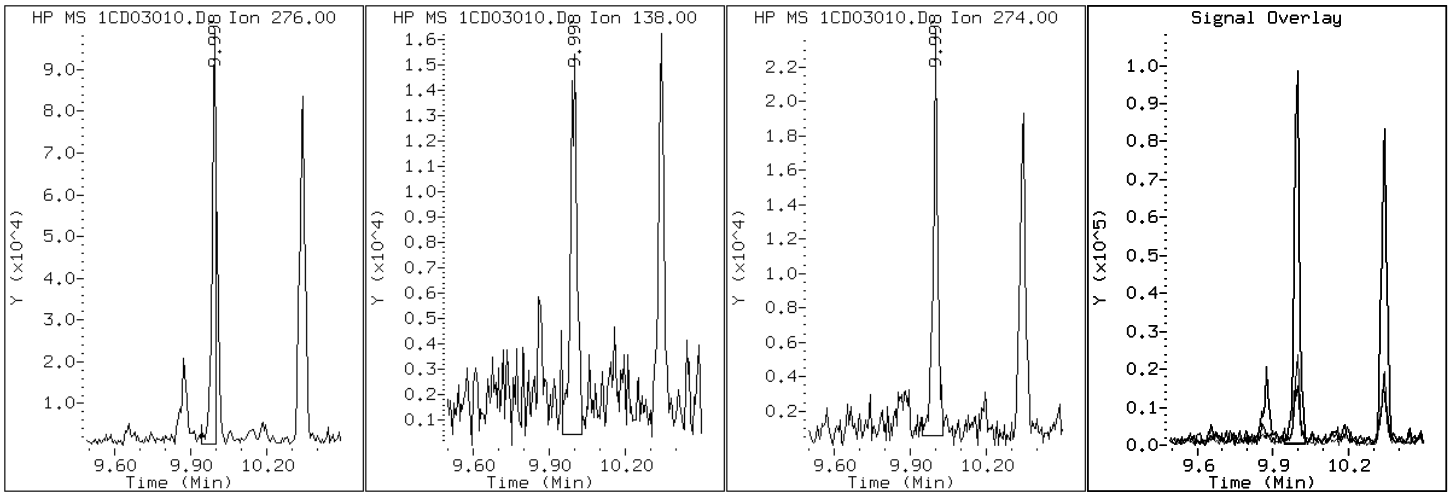
Client ID: CV0613AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-14-a

Operator: SCC

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



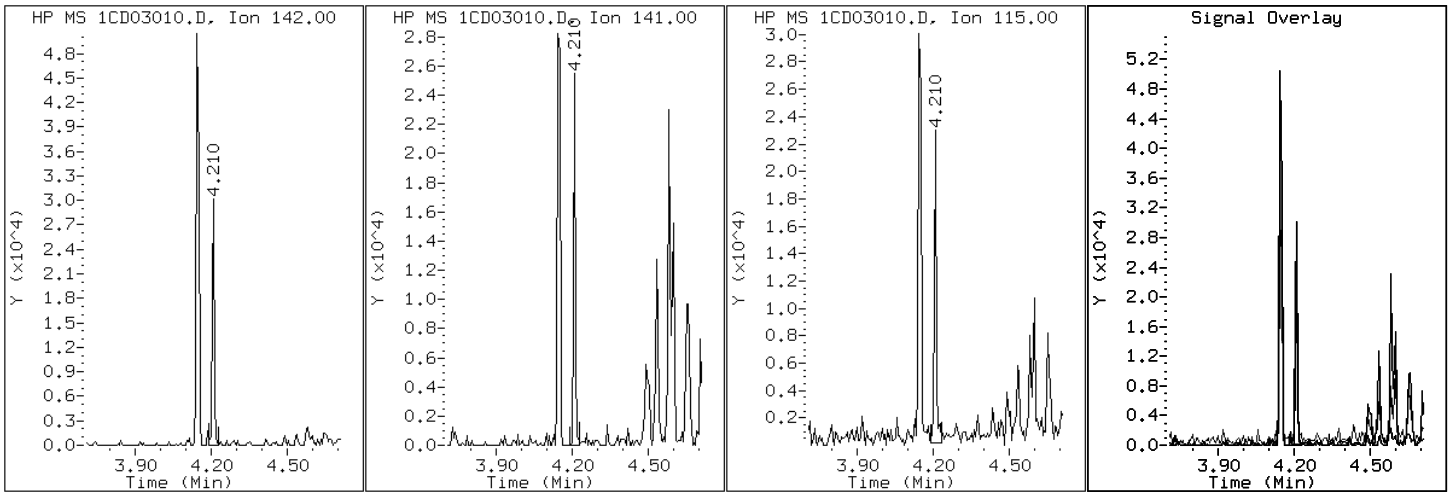
Data File: 1CD03010.D

Date: 03-APR-2013 13:54

Client ID: CV0613AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-14-a Operator: SCC

4 1-Methylnaphthalene



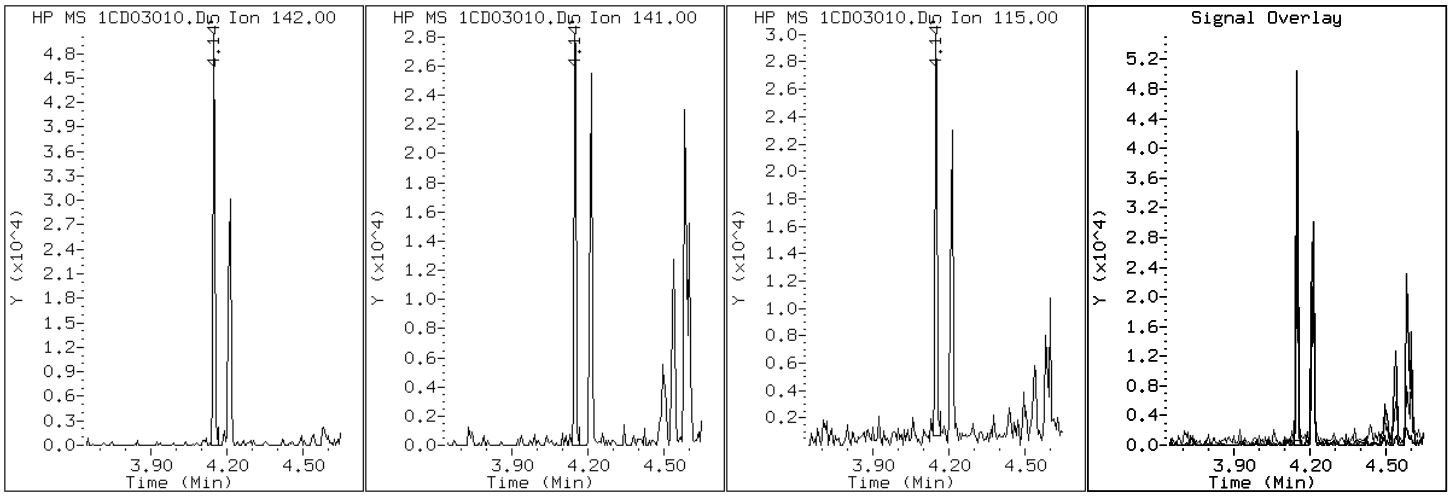
Data File: 1CD03010.D

Date: 03-APR-2013 13:54

Client ID: CV0613AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-14-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD03010.D

Date: 03-APR-2013 13:54

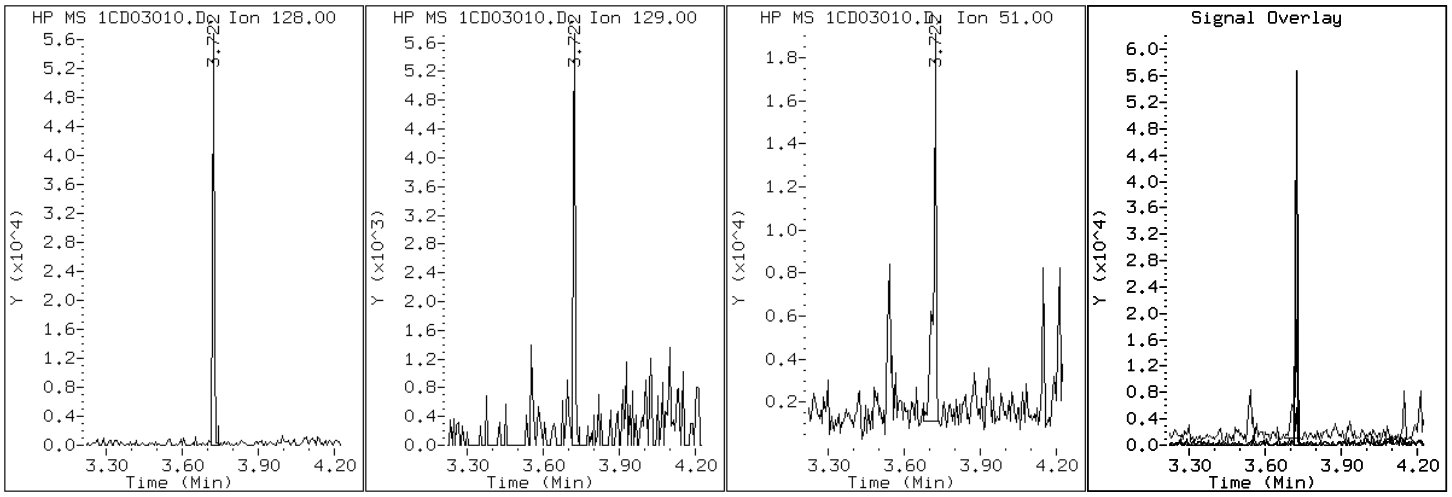
Client ID: CV0613AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-14-a

Operator: SCC

2 Naphthalene



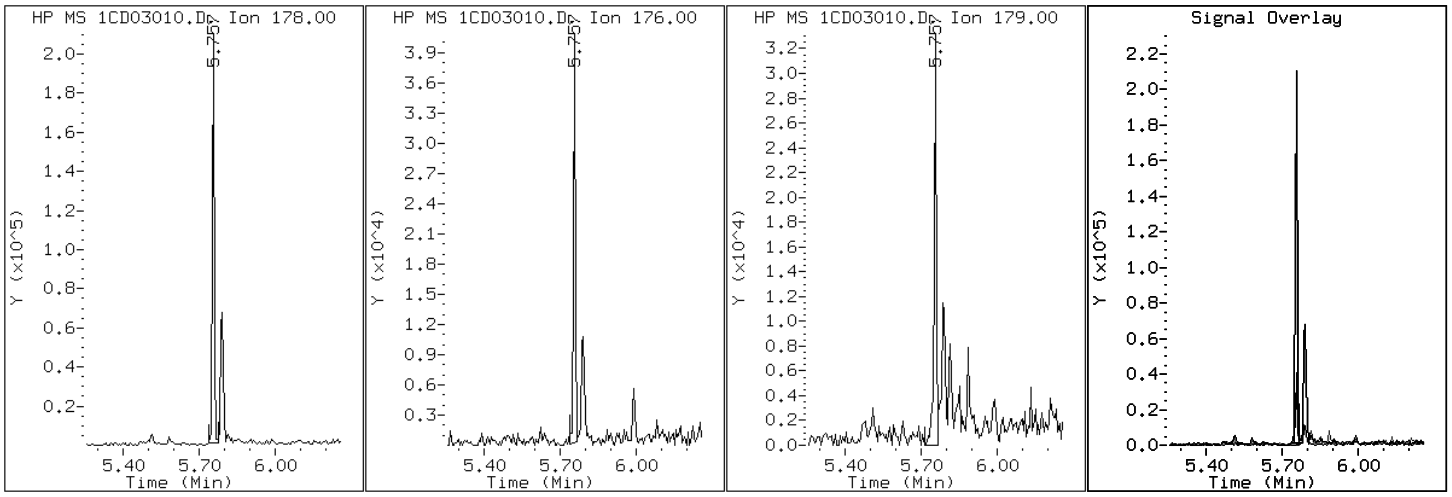
Data File: 1CD03010.D

Date: 03-APR-2013 13:54

Client ID: CV0613AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-14-a Operator: SCC

11 Phenanthrene



Data File: 1CD03010.D

Date: 03-APR-2013 13:54

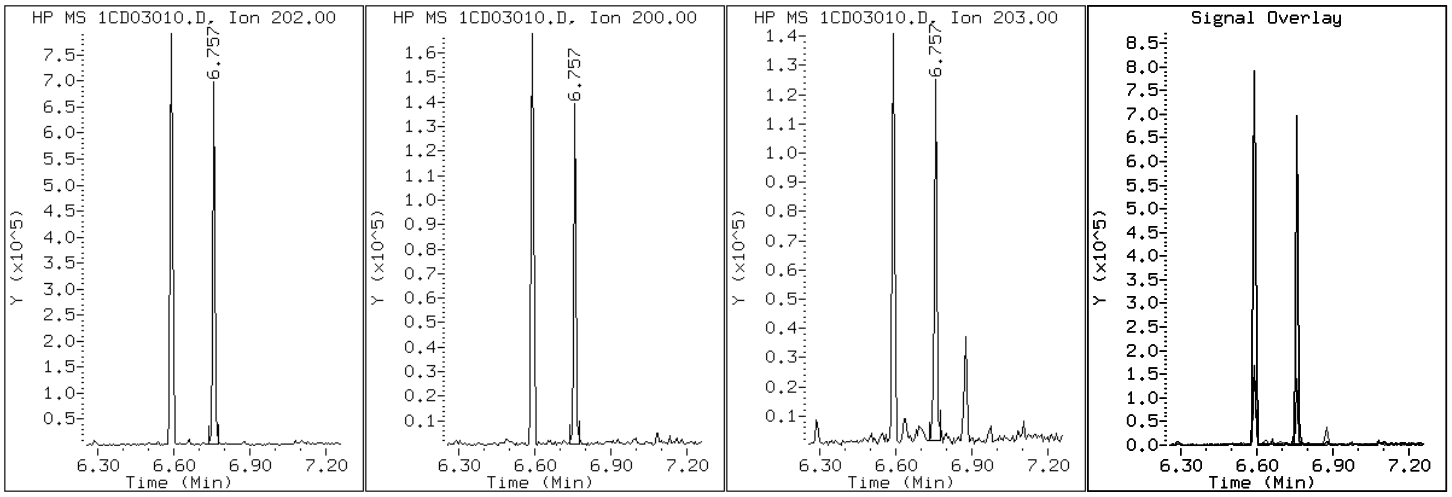
Client ID: CV0613AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-14-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD03010.D
Inj. Date and Time: 03-APR-2013 13:54
Instrument ID: BSMC5973.i
Client ID: CV0613AB-GS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

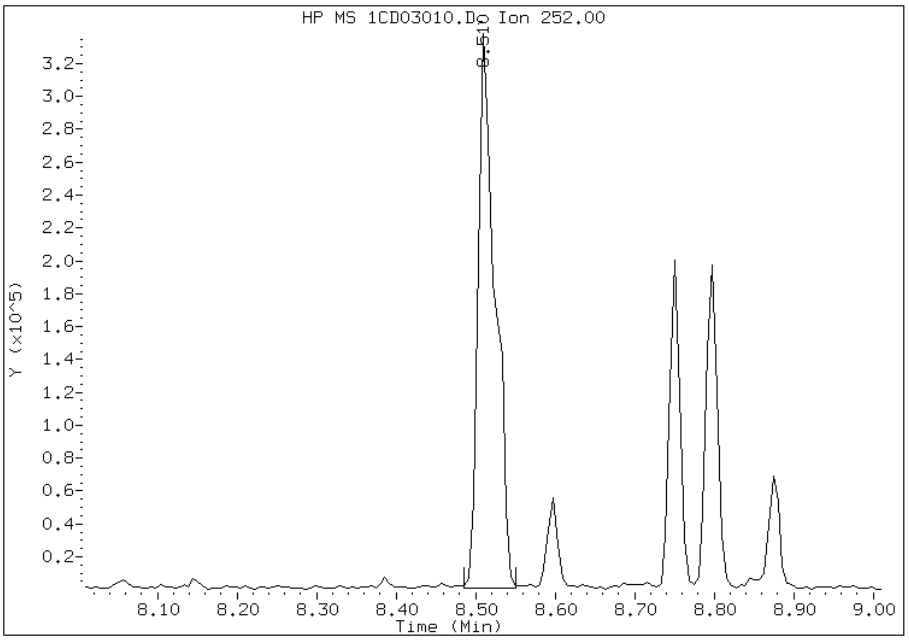
Processing Integration Results

RT: 8.51

Response: 499284

Amount: 15

Conc: 1223



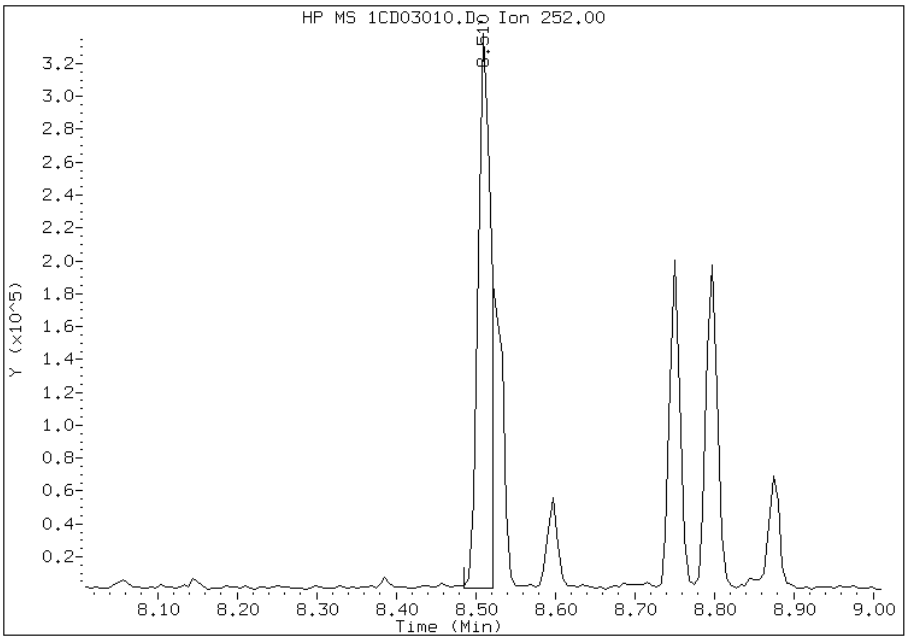
Manual Integration Results

RT: 8.51

Response: 373246

Amount: 11

Conc: 915



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:21
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD03010.D
Inj. Date and Time: 03-APR-2013 13:54
Instrument ID: BSMC5973.i
Client ID: CV0613AB-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

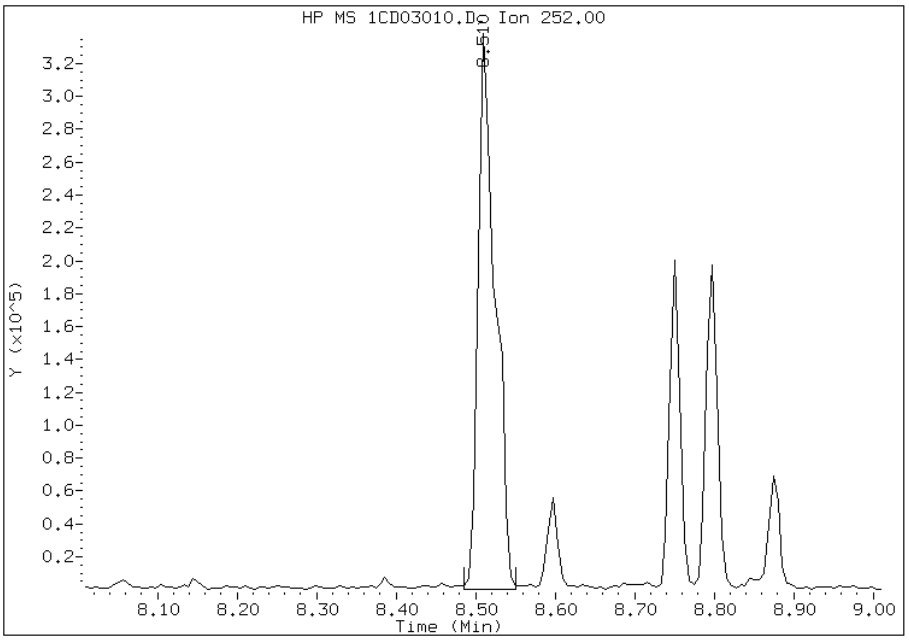
Processing Integration Results

RT: 8.51

Response: 503274

Amount: 16

Conc: 1275



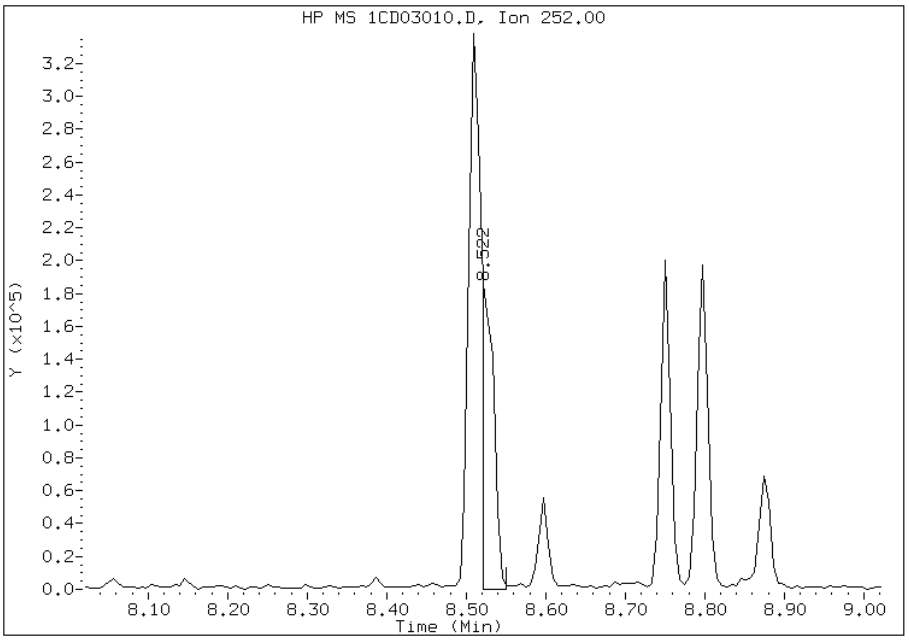
Manual Integration Results

RT: 8.52

Response: 194081

Amount: 6

Conc: 492



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:21
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD03010.D
Inj. Date and Time: 03-APR-2013 13:54
Instrument ID: BSMC5973.i
Client ID: CV0613AB-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

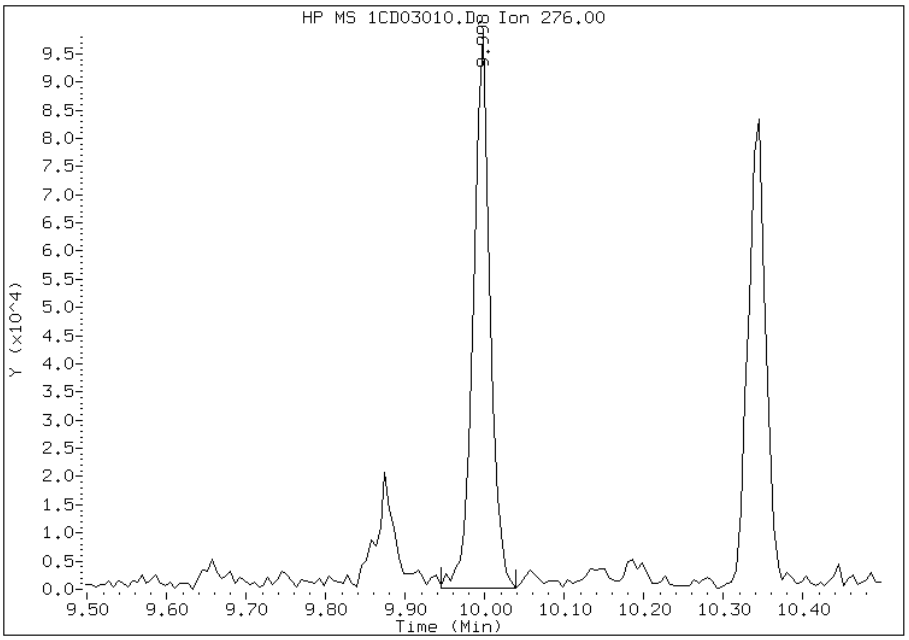
Processing Integration Results

RT: 10.00

Response: 143226

Amount: 5

Conc: 392



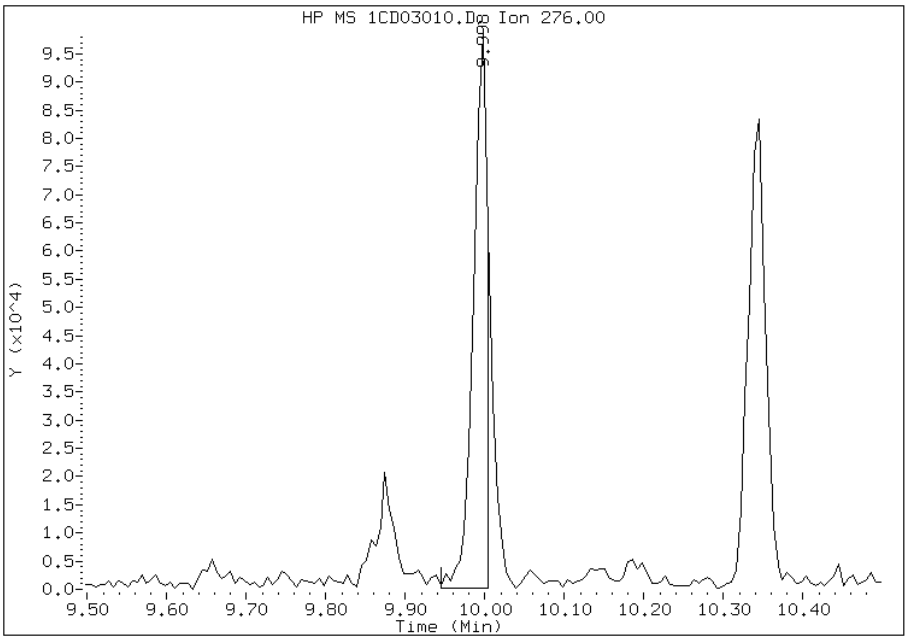
Manual Integration Results

RT: 10.00

Response: 121793

Amount: 4

Conc: 334



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:22
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-1

SDG No.: 68088766-1

Client Sample ID: CV0613AC-GS | Lab Sample ID: 680-88766-15

Matrix: Solid | Lab File ID: 1CD03011.D

Analysis Method: 8270C LL | Date Collected: 03/25/2013 13:34

Extract. Method: 3546 | Date Extracted: 03/29/2013 10:19

Sample wt/vol: 14.80(g) | Date Analyzed: 04/03/2013 14:12

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

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

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

Analysis Batch No.: 136081 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	480	U	480	96
208-96-8	Acenaphthylene	110	J	190	24
120-12-7	Anthracene	140		40	20
56-55-3	Benzo[a]anthracene	470		39	19
50-32-8	Benzo[a]pyrene	550		50	25
205-99-2	Benzo[b]fluoranthene	890		59	29
191-24-2	Benzo[g,h,i]perylene	450		96	21
207-08-9	Benzo[k]fluoranthene	390		39	17
218-01-9	Chrysene	570		43	22
53-70-3	Dibenz(a,h)anthracene	110		96	20
206-44-0	Fluoranthene	770		96	19
86-73-7	Fluorene	38	J	96	20
193-39-5	Indeno[1,2,3-cd]pyrene	350		96	34
90-12-0	1-Methylnaphthalene	74	J	190	21
91-57-6	2-Methylnaphthalene	60	J	190	34
91-20-3	Naphthalene	110	J	190	21
85-01-8	Phenanthrene	360		39	19
129-00-0	Pyrene	660		96	18

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03011.D
Lab Smp Id: 680-88766-A-15-A Client Smp ID: CV0613AC-GS
Inj Date : 03-APR-2013 14:12
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88766-a-15-a
Misc Info : 680-88766-A-15-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m
Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 11
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.800	Weight Extracted
M	15.899	% 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	3.710	3.704	(1.000)	662131	40.0000	
* 6 Acenaphthene-d10	164	4.792	4.792	(1.000)	532208	40.0000	
* 10 Phenanthrene-d10	188	5.739	5.739	(1.000)	977937	40.0000	
$ 14 o-Terphenyl	230	5.992	5.992	(1.044)	21869	2.09542	673.3900
* 18 Chrysene-d12	240	7.680	7.680	(1.000)	1127698	40.0000	
* 23 Perylene-d12	264	8.850	8.851	(1.000)	1081770	40.0000	
2 Naphthalene	128	3.721	3.722	(1.003)	5852	0.34410	110.5807(Q)
3 2-Methylnaphthalene	142	4.145	4.145	(1.117)	2174	0.18779	60.3488(Q)
4 1-Methylnaphthalene	142	4.210	4.210	(1.135)	2396	0.23001	73.9175
5 Acenaphthylene	152	4.710	4.704	(0.983)	7224	0.32796	105.3954
9 Fluorene	166	5.133	5.133	(1.071)	2153	0.11838	38.0431(Q)
11 Phenanthrene	178	5.757	5.757	(1.003)	32304	1.13419	364.4852
12 Anthracene	178	5.792	5.792	(1.009)	12863	0.44551	143.1705
13 Carbazole	167	5.898	5.898	(1.028)	4300	0.17383	55.8635(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.592	6.592	(1.149)	75083	2.38701	767.0946
16 Pyrene	202	6.756	6.757	(0.880)	63981	2.04817	658.2055
17 Benzo(a)anthracene	228	7.668	7.668	(0.998)	43239	1.45894	468.8469
19 Chrysene	228	7.698	7.698	(1.002)	57280	1.78251	572.8317
20 Benzo(b)fluoranthene	252	8.509	8.509	(0.961)	84261	2.75520	885.4173(M)
21 Benzo(k)fluoranthene	252	8.527	8.533	(0.963)	35500	1.20018	385.6935(QM)
22 Benzo(a)pyrene	252	8.792	8.798	(0.993)	49401	1.71574	551.3755
24 Indeno(1,2,3-cd)pyrene	276	9.992	9.992	(1.129)	29906	1.09355	351.4254(M)
25 Dibenzo(a,h)anthracene	278	10.009	10.009	(1.131)	8894	0.35206	113.1386(M)
26 Benzo(g,h,i)perylene	276	10.333	10.339	(1.167)	39344	1.40960	452.9910(M)

QC Flag Legend

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

Data File: 1CD03011.D

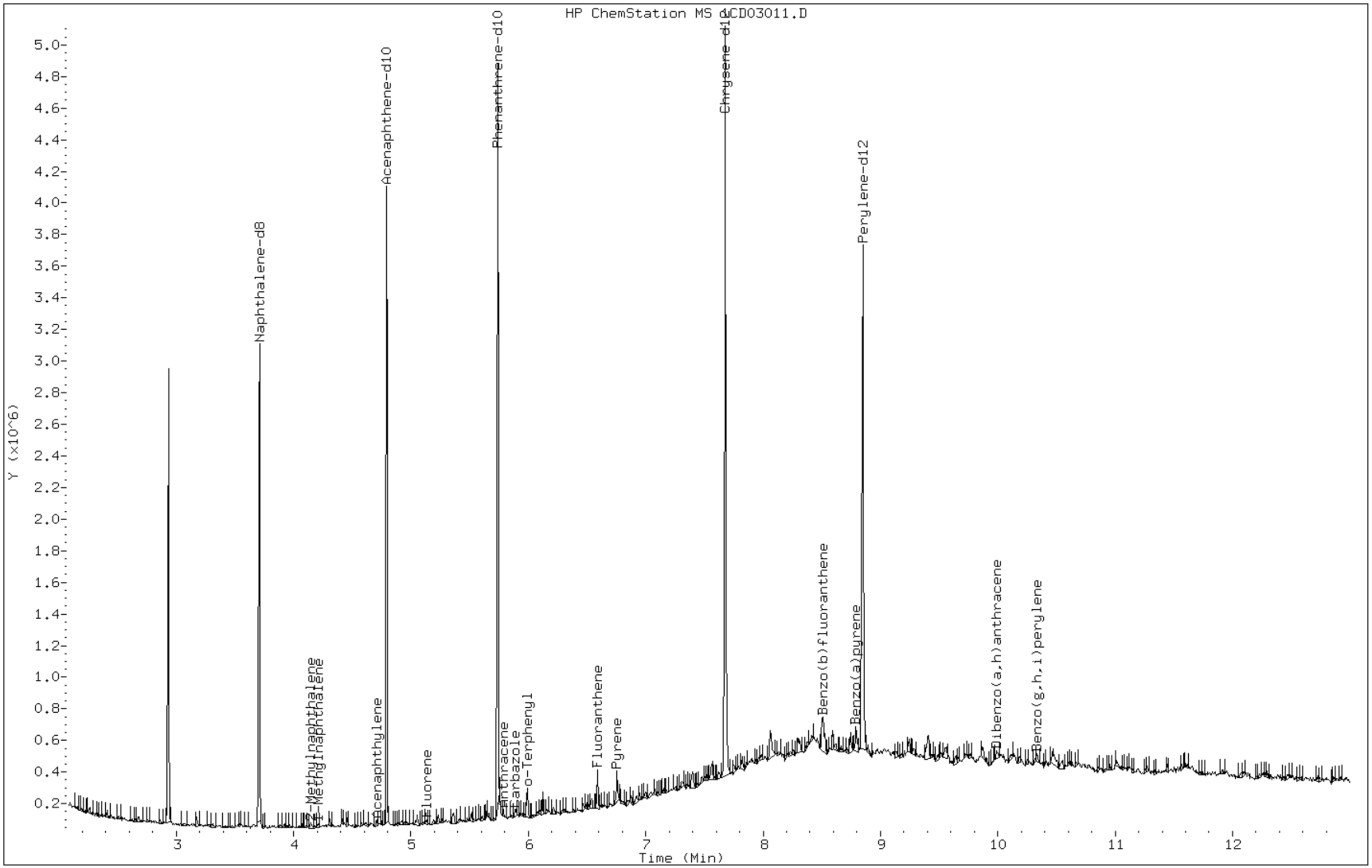
Date: 03-APR-2013 14:12

Client ID: CV0613AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-15-a

Operator: SCC



Data File: 1CD03011.D

Date: 03-APR-2013 14:12

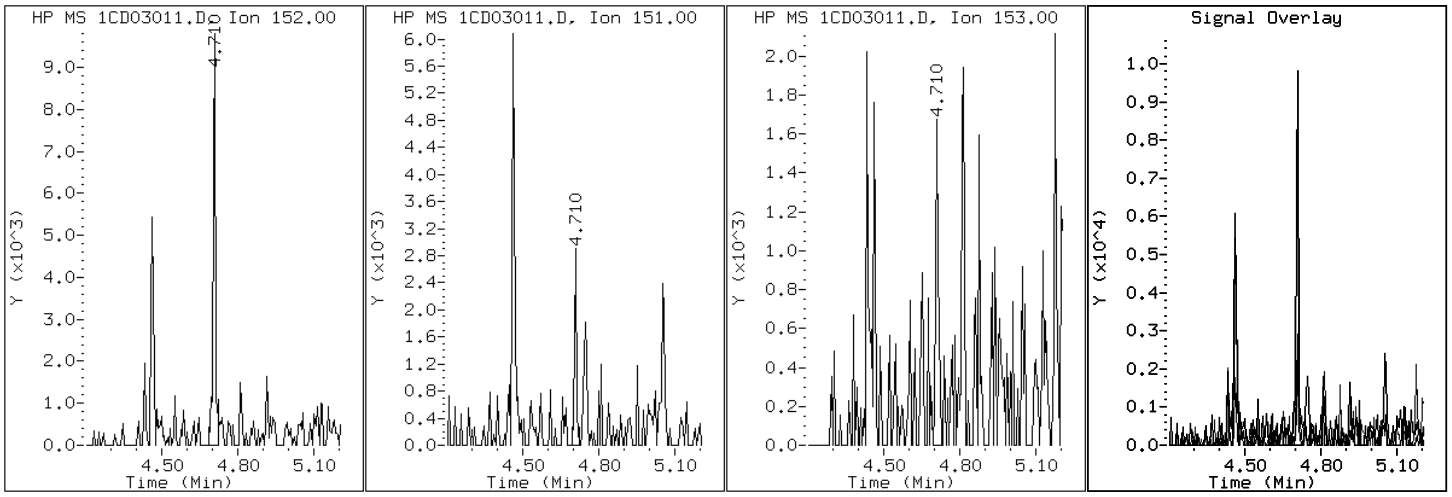
Client ID: CV0613AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-15-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD03011.D

Date: 03-APR-2013 14:12

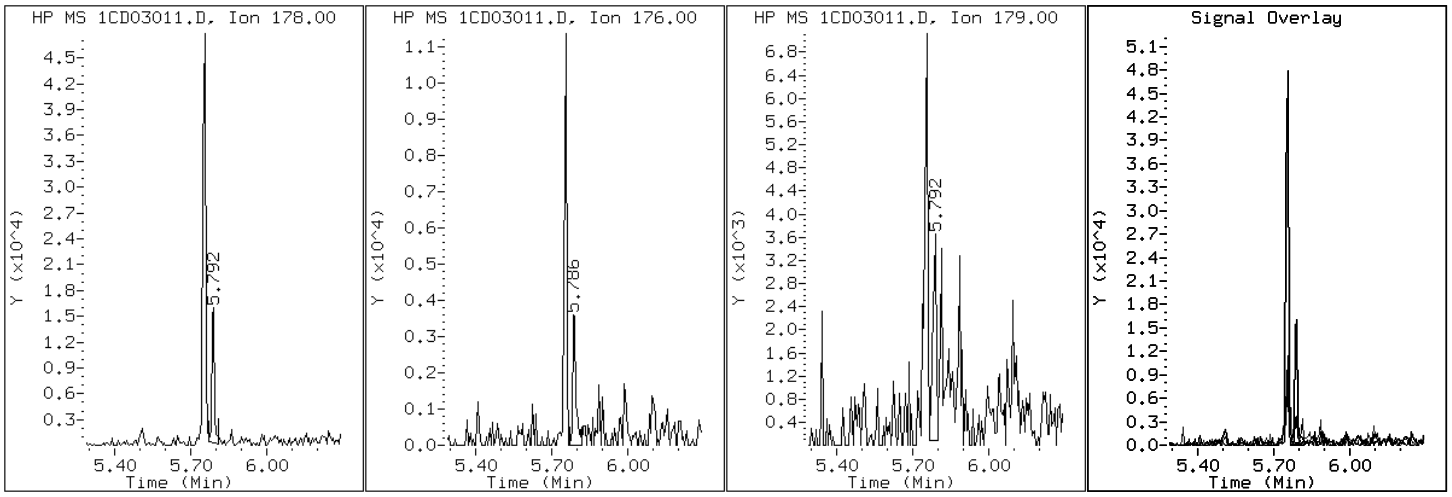
Client ID: CV0613AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-15-a

Operator: SCC

12 Anthracene



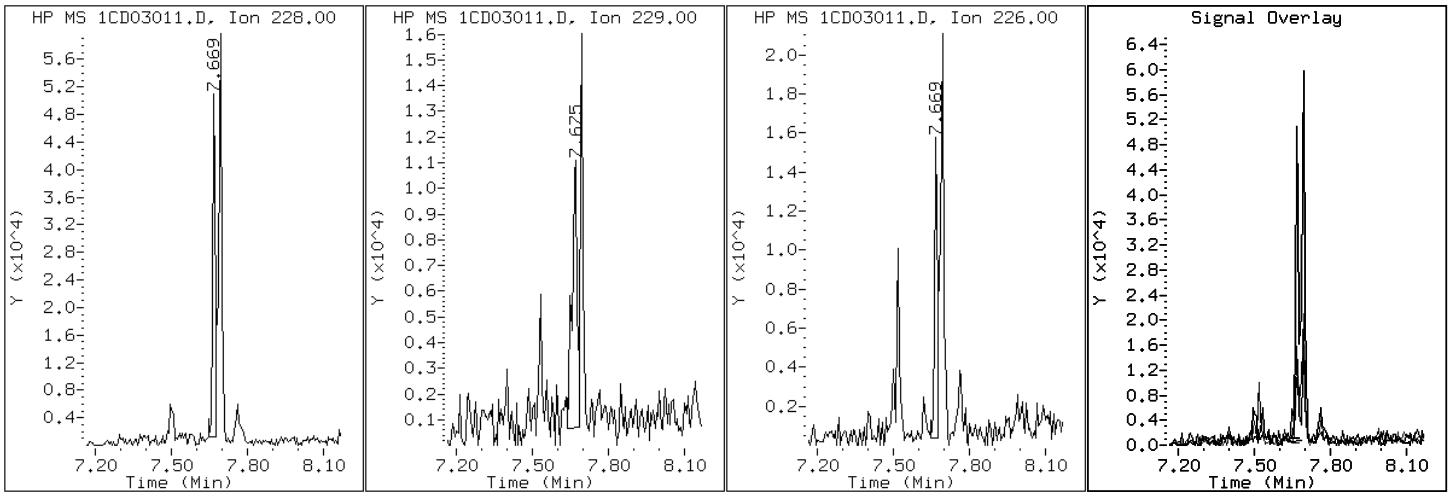
Data File: 1CD03011.D

Date: 03-APR-2013 14:12

Client ID: CV0613AC-GS | Instrument: BSMC5973.i

Sample Info: 680-88766-a-15-a | Operator: SCC

17 Benzo(a)anthracene



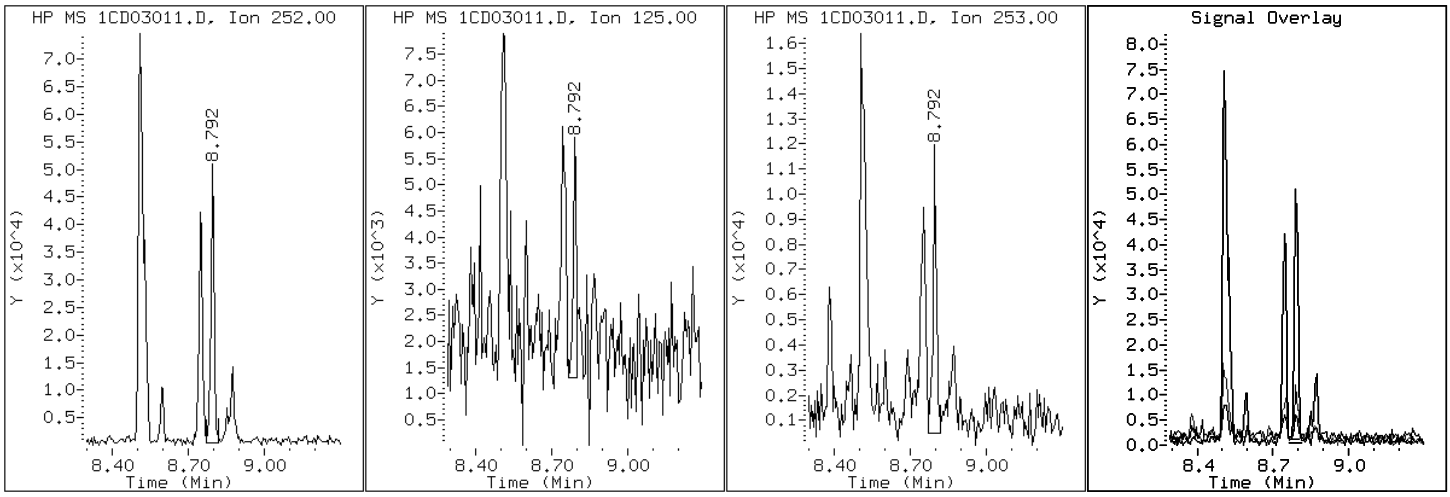
Data File: 1CD03011.D

Date: 03-APR-2013 14:12

Client ID: CV0613AC-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-15-a Operator: SCC

22 Benzo(a)pyrene



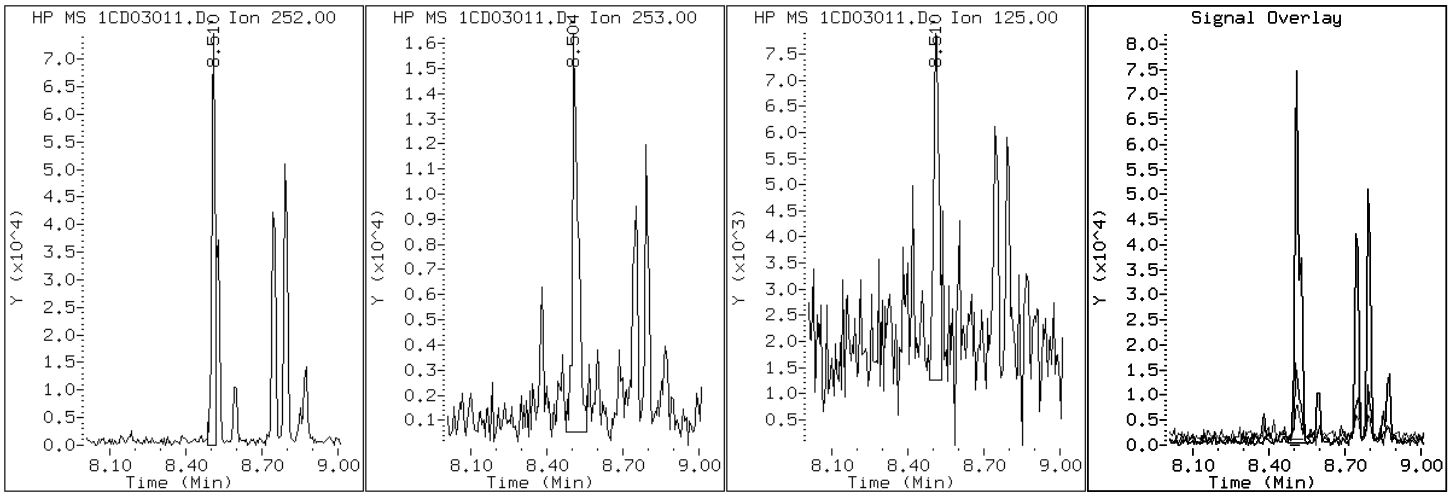
Data File: 1CD03011.D

Date: 03-APR-2013 14:12

Client ID: CV0613AC-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-15-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD03011.D

Date: 03-APR-2013 14:12

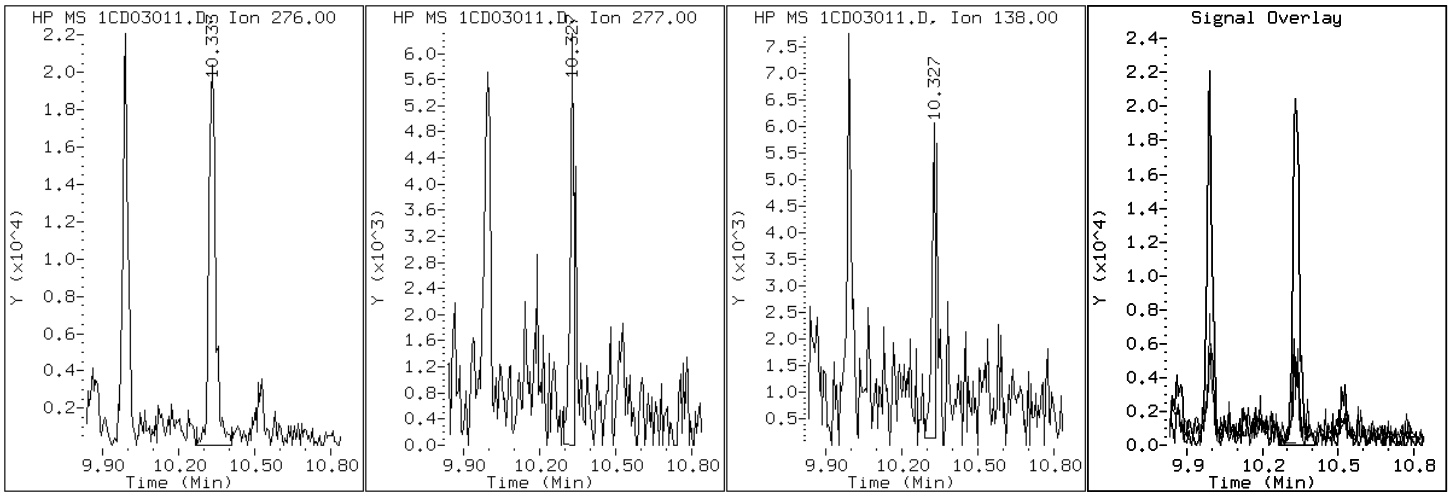
Client ID: CV0613AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-15-a

Operator: SCC

26 Benzo(g,h,i)perylene



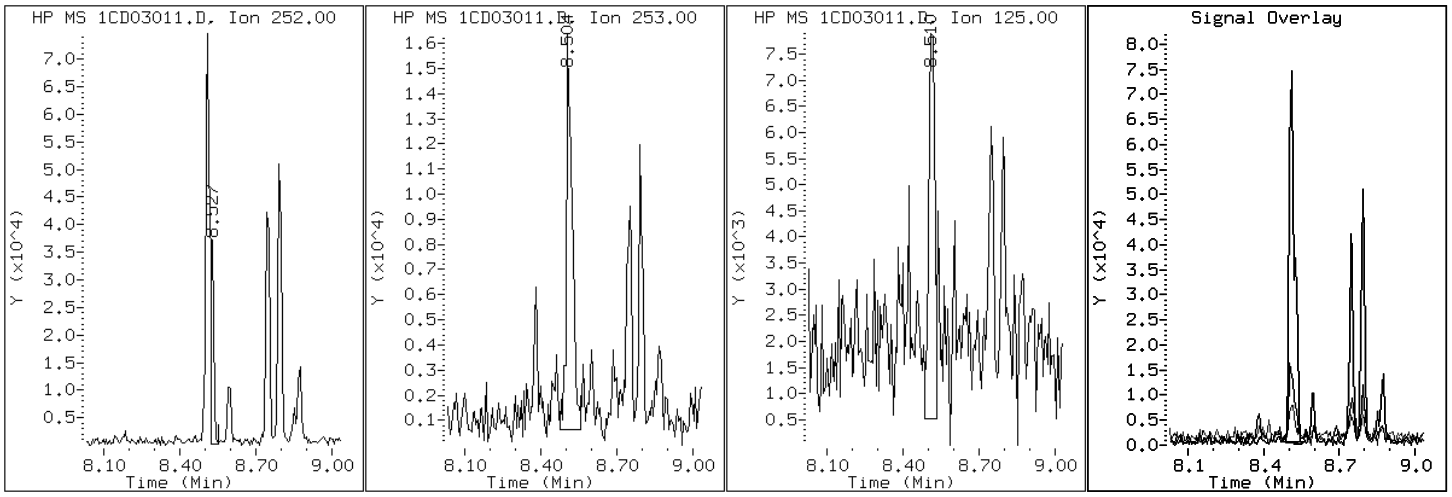
Data File: 1CD03011.D

Date: 03-APR-2013 14:12

Client ID: CV0613AC-GS | Instrument: BSMC5973.i

Sample Info: 680-88766-a-15-a | Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD03011.D

Date: 03-APR-2013 14:12

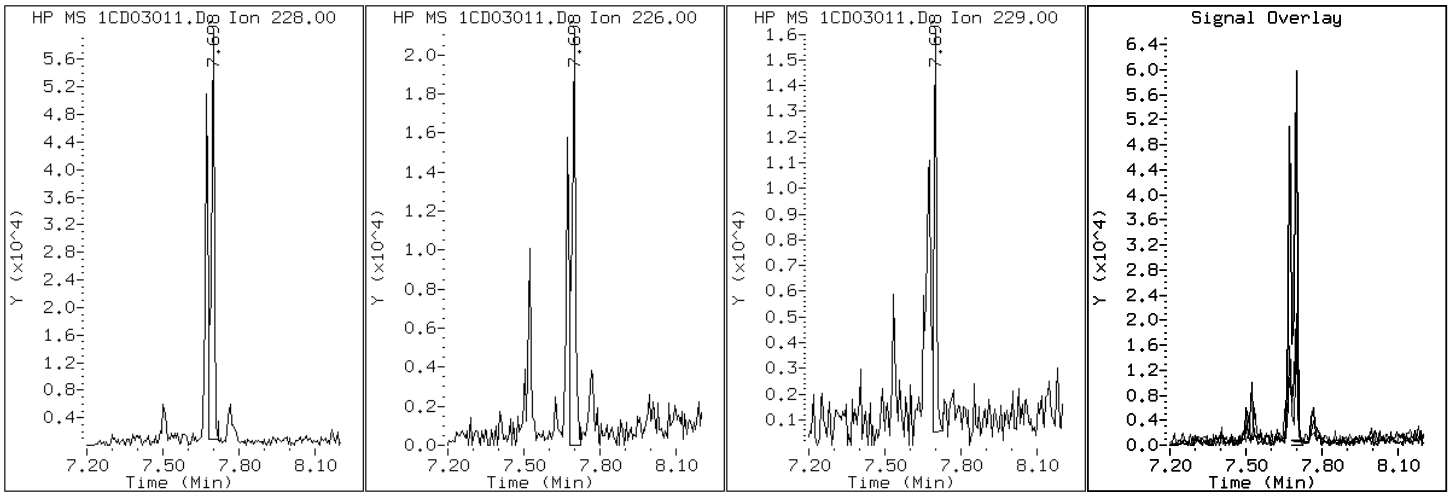
Client ID: CV0613AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-15-a

Operator: SCC

19 Chrysene



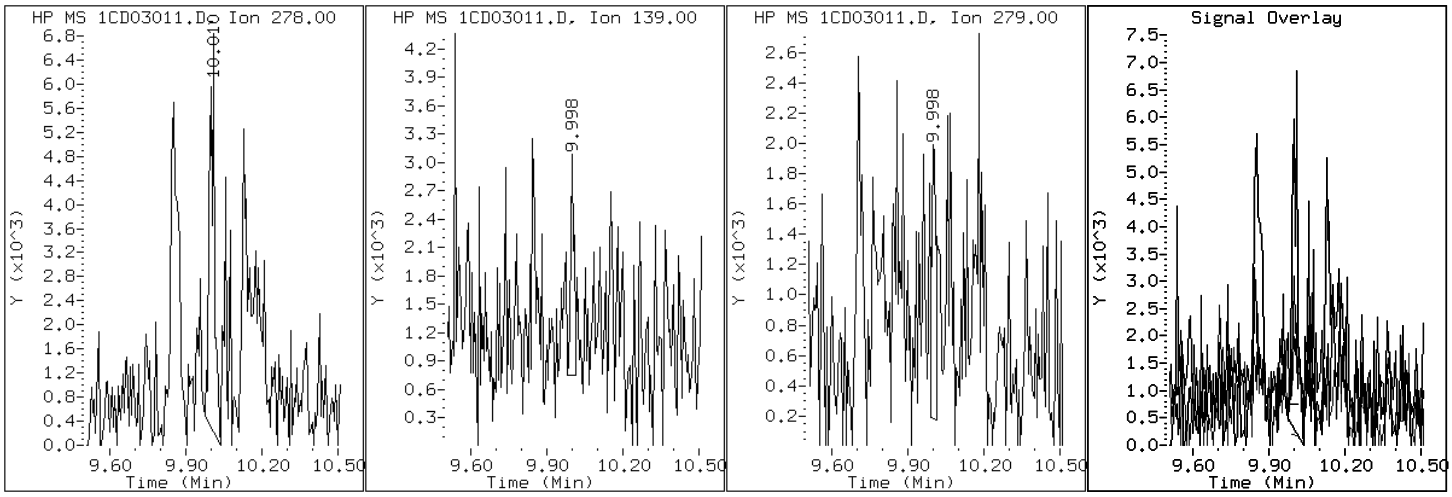
Data File: 1CD03011.D

Date: 03-APR-2013 14:12

Client ID: CV0613AC-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-15-a Operator: SCC

25 Dibenzo(a,h)anthracene



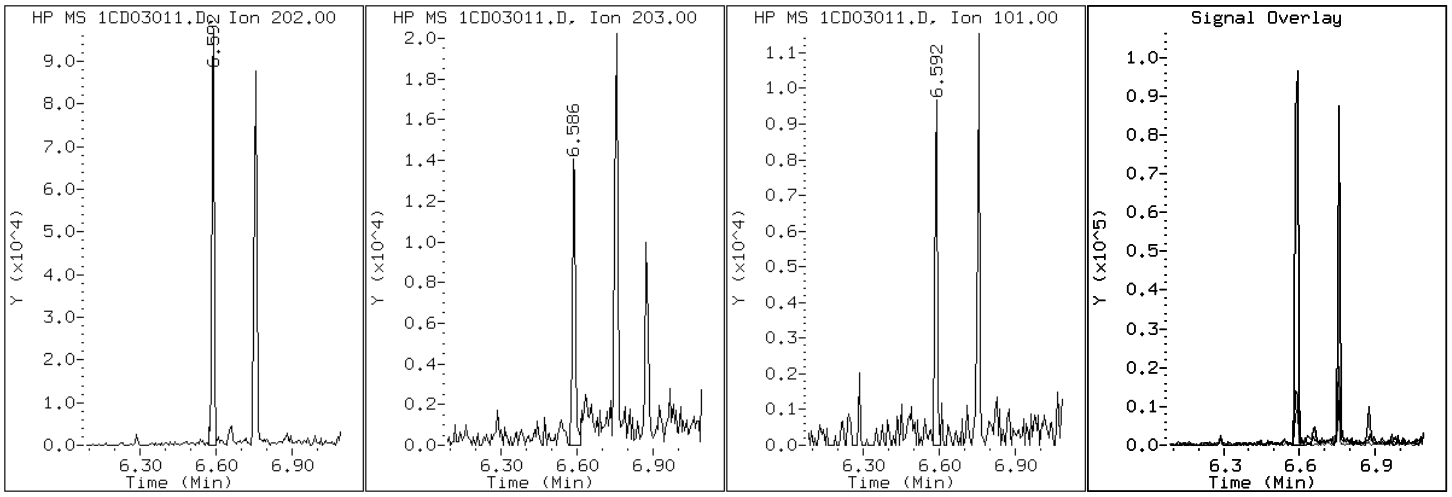
Data File: 1CD03011.D

Date: 03-APR-2013 14:12

Client ID: CV0613AC-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-15-a Operator: SCC

15 Fluoranthene



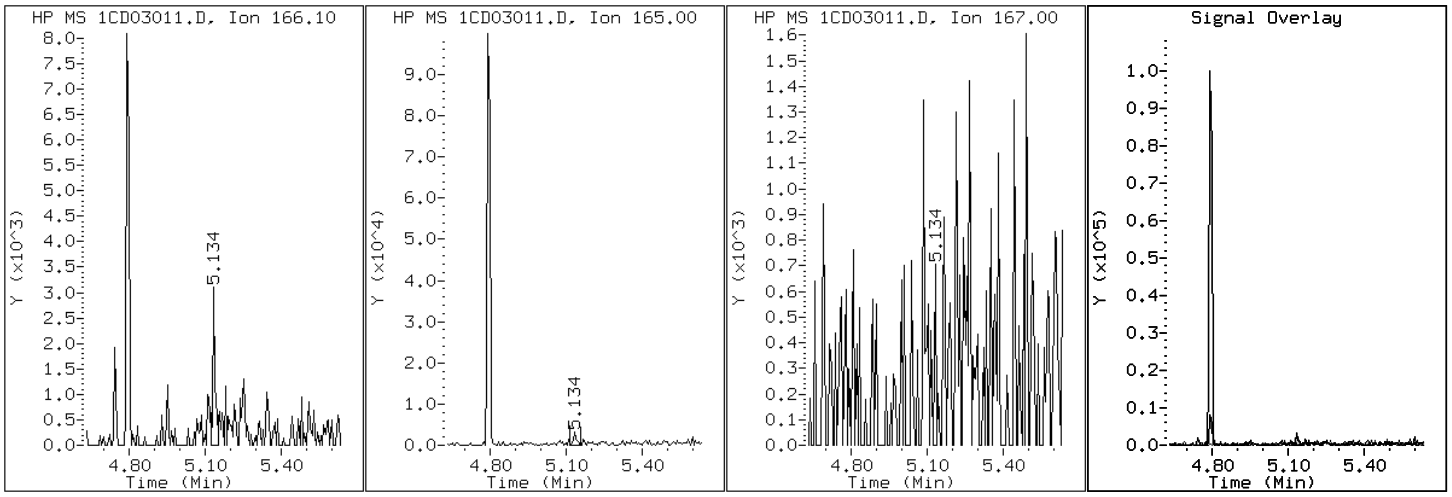
Data File: 1CD03011.D

Date: 03-APR-2013 14:12

Client ID: CV0613AC-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-15-a Operator: SCC

9 Fluorene



Data File: 1CD03011.D

Date: 03-APR-2013 14:12

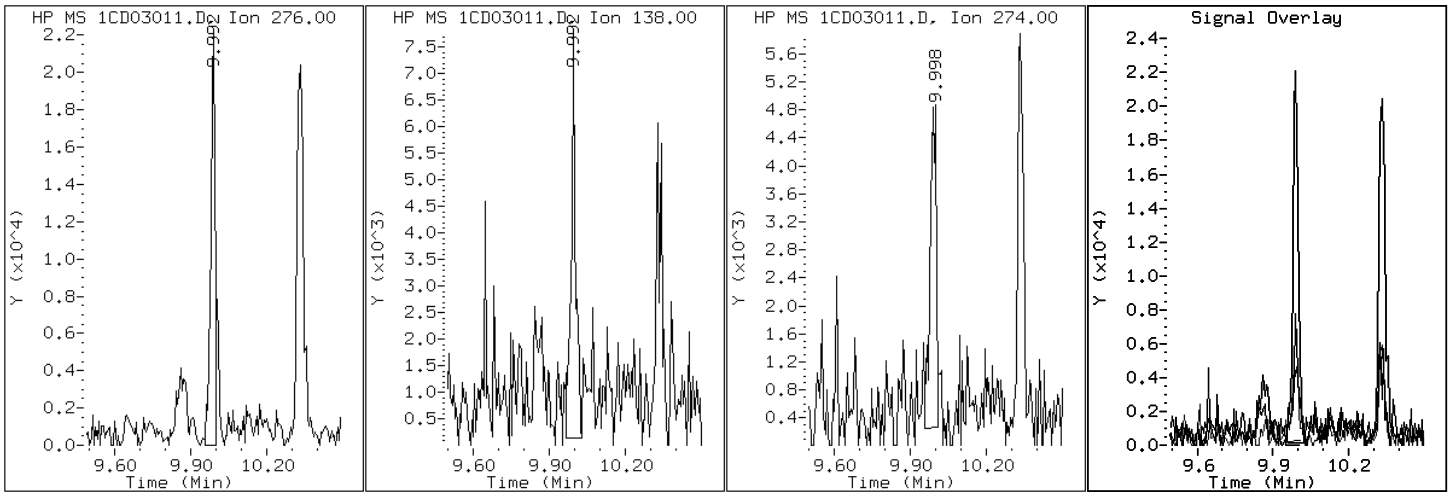
Client ID: CV0613AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-15-a

Operator: SCC

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



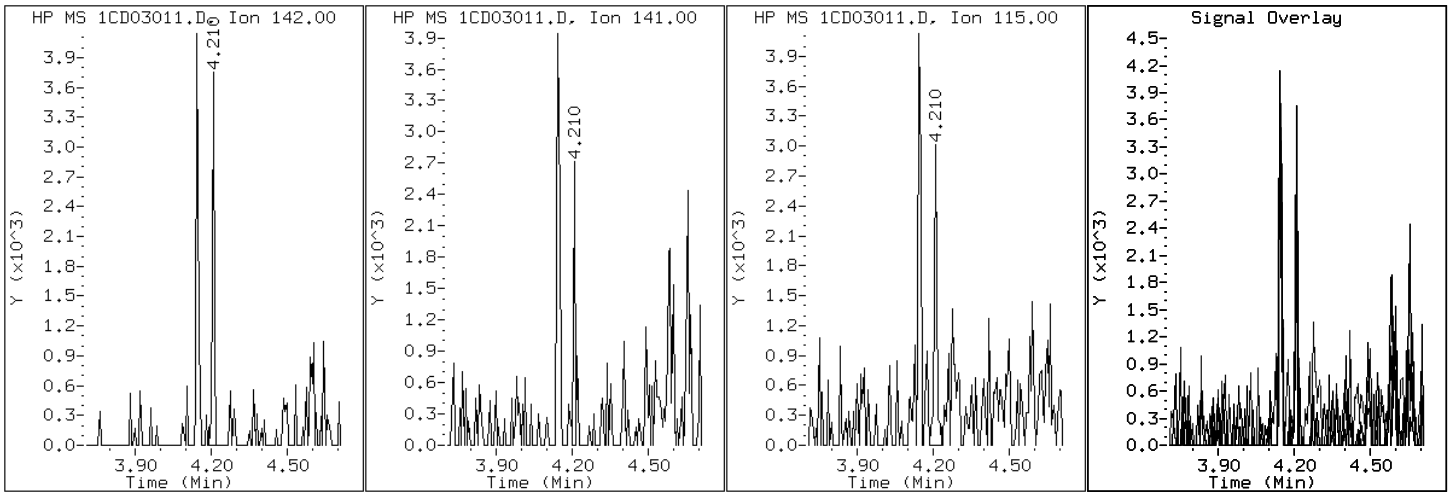
Data File: 1CD03011.D

Date: 03-APR-2013 14:12

Client ID: CV0613AC-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-15-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD03011.D

Date: 03-APR-2013 14:12

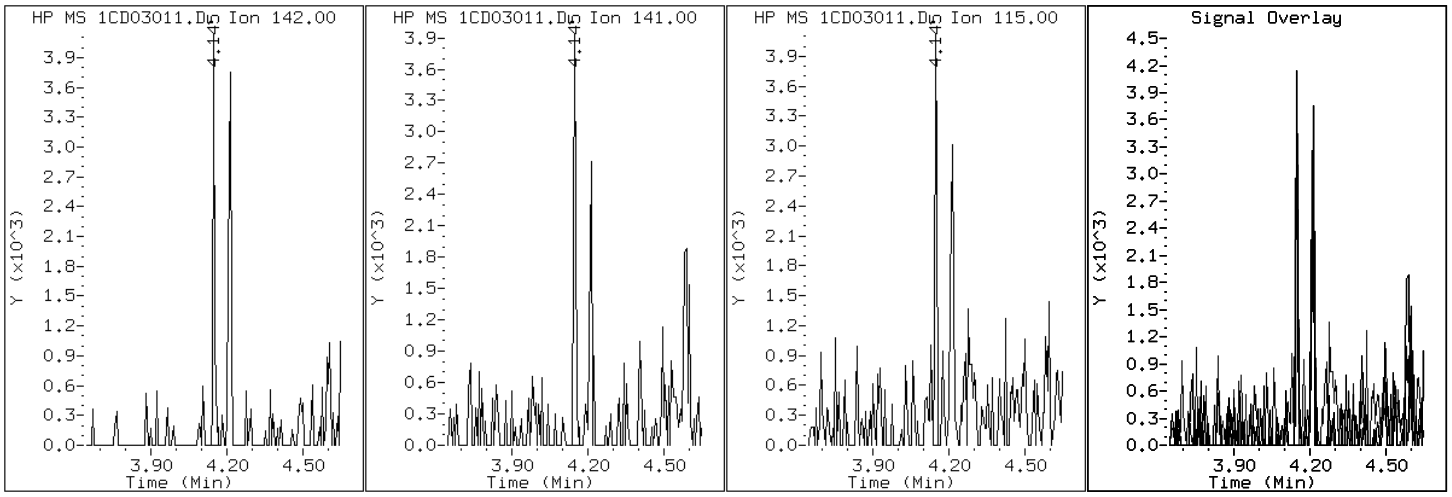
Client ID: CV0613AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-15-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD03011.D

Date: 03-APR-2013 14:12

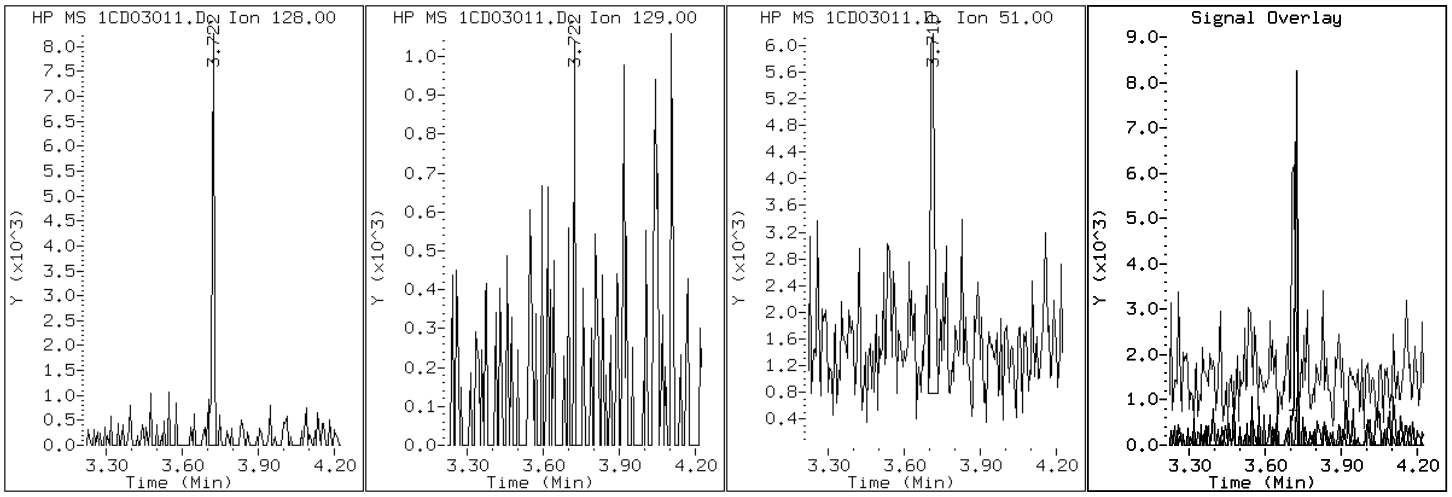
Client ID: CV0613AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-15-a

Operator: SCC

2 Naphthalene



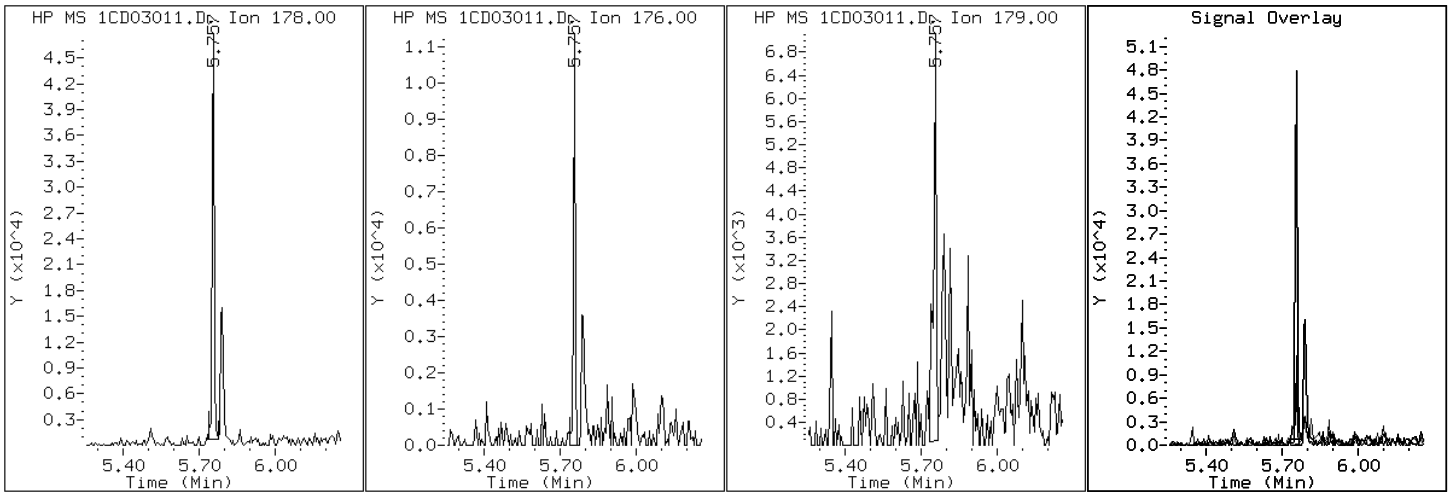
Data File: 1CD03011.D

Date: 03-APR-2013 14:12

Client ID: CV0613AC-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-15-a Operator: SCC

11 Phenanthrene



Data File: 1CD03011.D

Date: 03-APR-2013 14:12

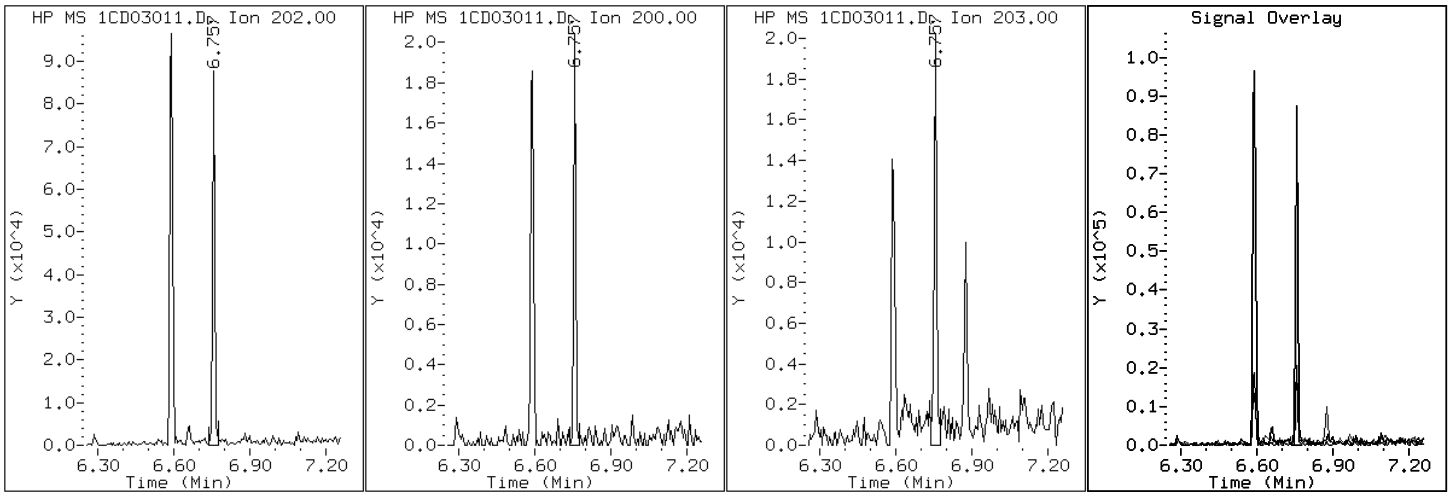
Client ID: CV0613AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-15-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD03011.D
Inj. Date and Time: 03-APR-2013 14:12
Instrument ID: BSMC5973.i
Client ID: CV0613AC-GS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

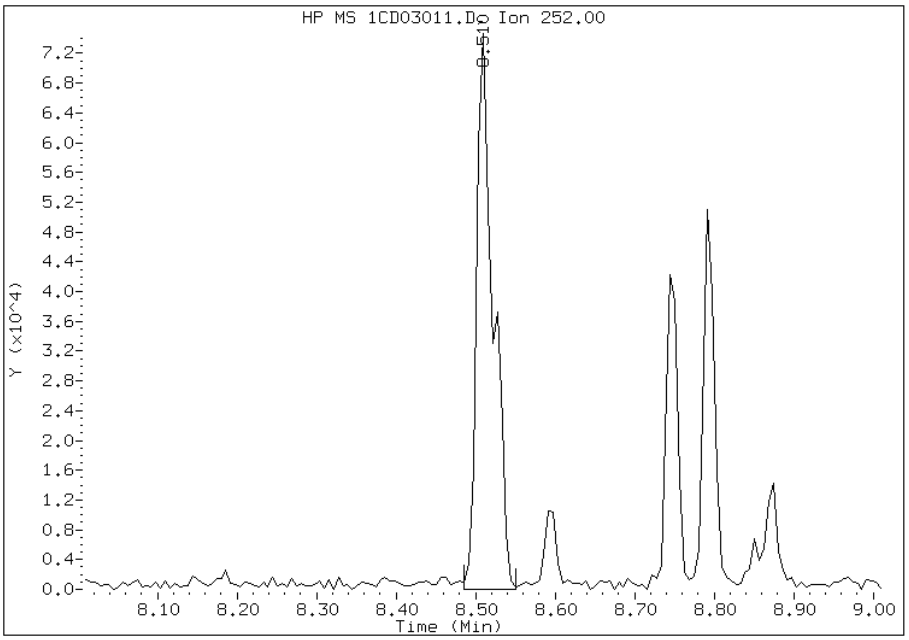
Processing Integration Results

RT: 8.51

Response: 108457

Amount: 4

Conc: 1140



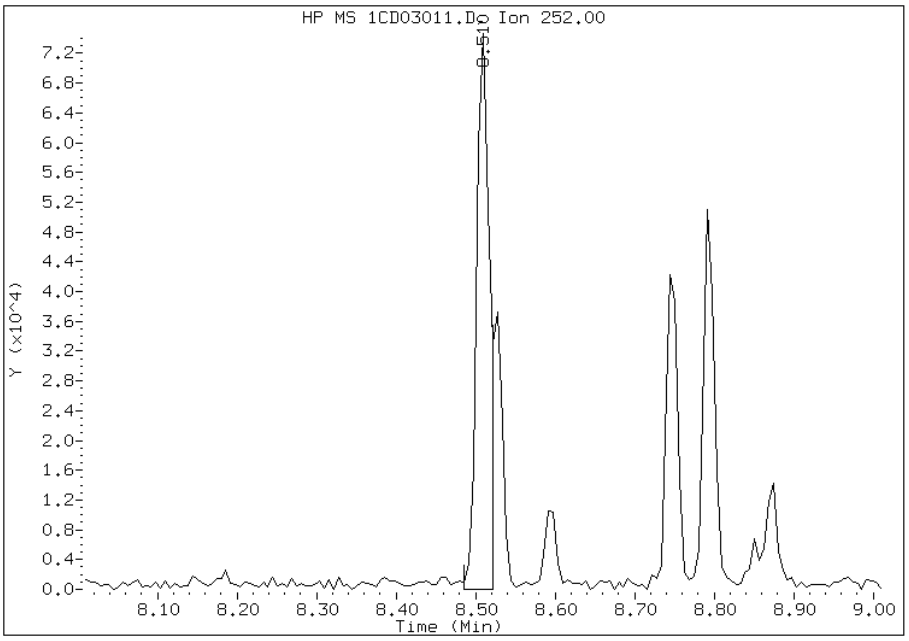
Manual Integration Results

RT: 8.51

Response: 84261

Amount: 3

Conc: 885



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:22
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD03011.D
Inj. Date and Time: 03-APR-2013 14:12
Instrument ID: BSMC5973.i
Client ID: CV0613AC-GS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/03/2013

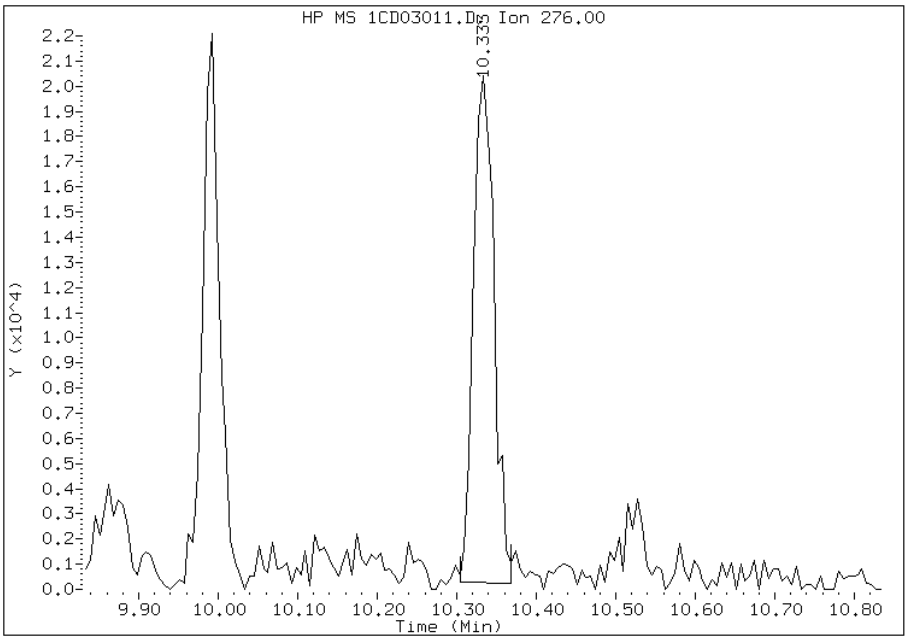
Processing Integration Results

RT: 10.33

Response: 36149

Amount: 1

Conc: 416



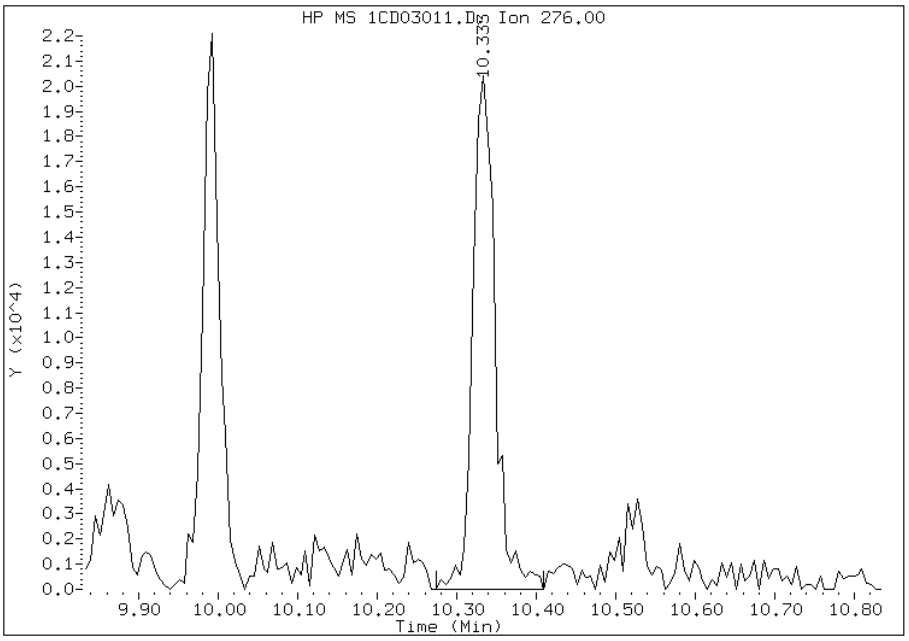
Manual Integration Results

RT: 10.33

Response: 39344

Amount: 1

Conc: 453



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:23
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD03011.D
Inj. Date and Time: 03-APR-2013 14:12
Instrument ID: BSMC5973.i
Client ID: CV0613AC-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

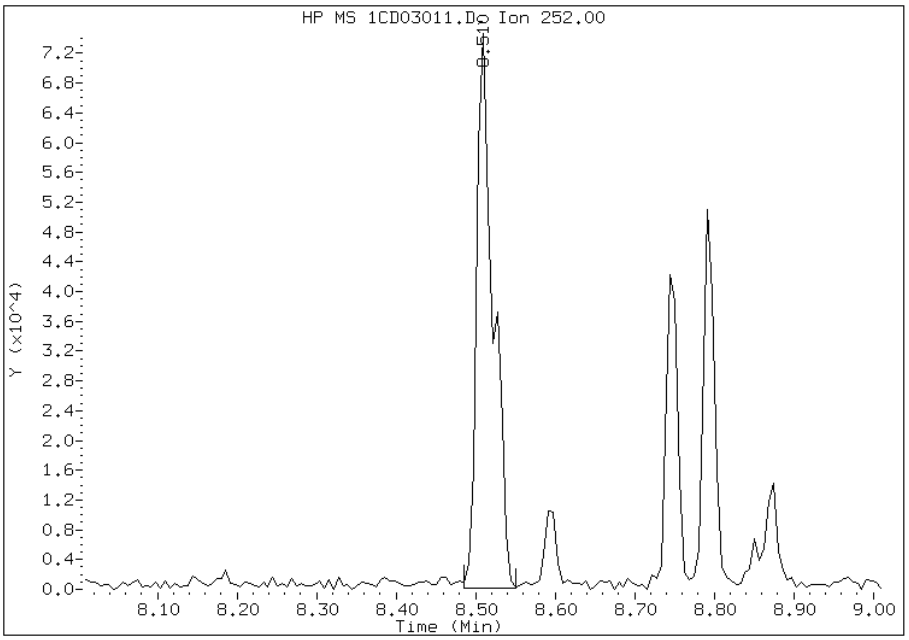
Processing Integration Results

RT: 8.51

Response: 107722

Amount: 4

Conc: 1170



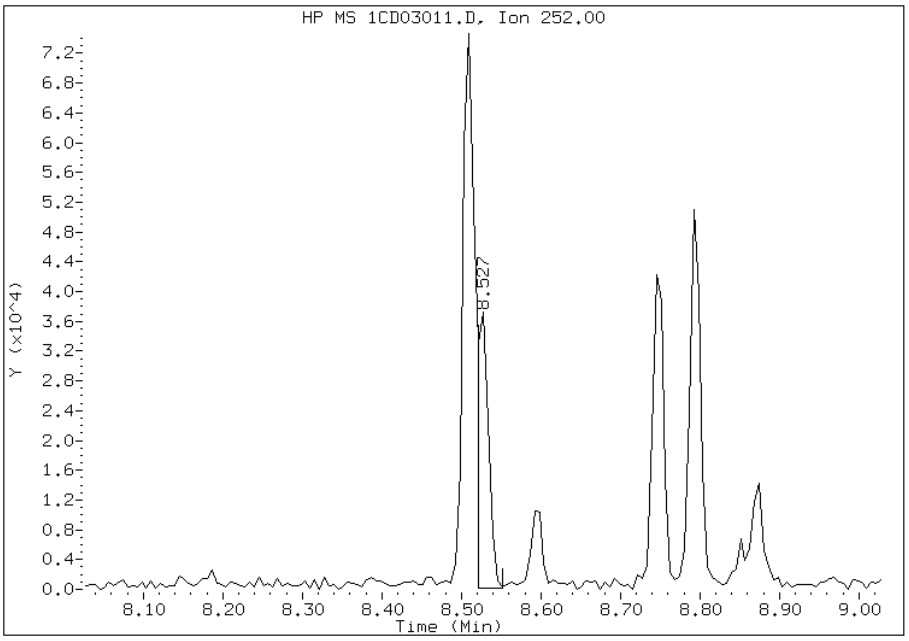
Manual Integration Results

RT: 8.53

Response: 35500

Amount: 1

Conc: 386



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD03011.D
Inj. Date and Time: 03-APR-2013 14:12
Instrument ID: BSMC5973.i
Client ID: CV0613AC-GS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/03/2013

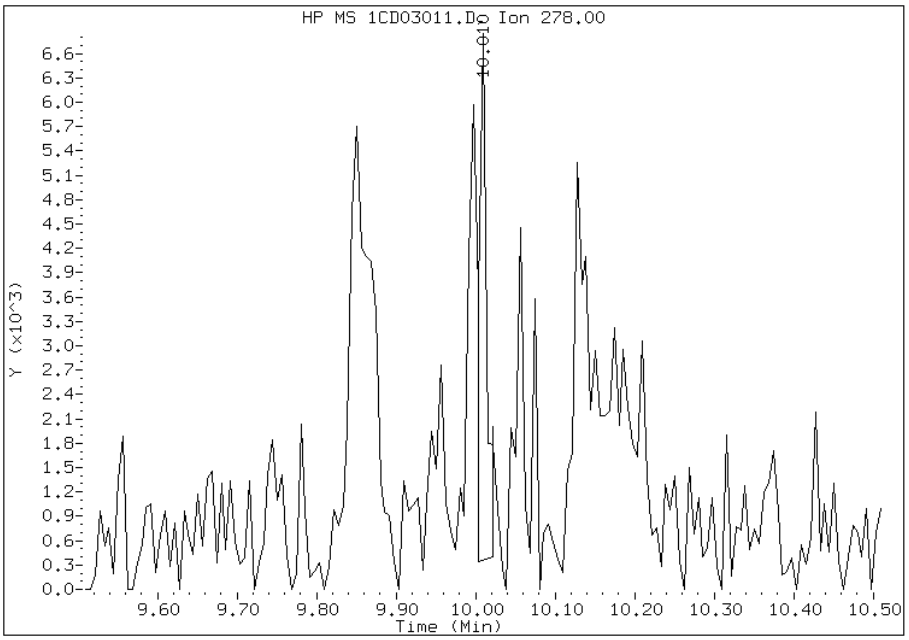
Processing Integration Results

RT: 10.01

Response: 4448

Amount: 0

Conc: 57



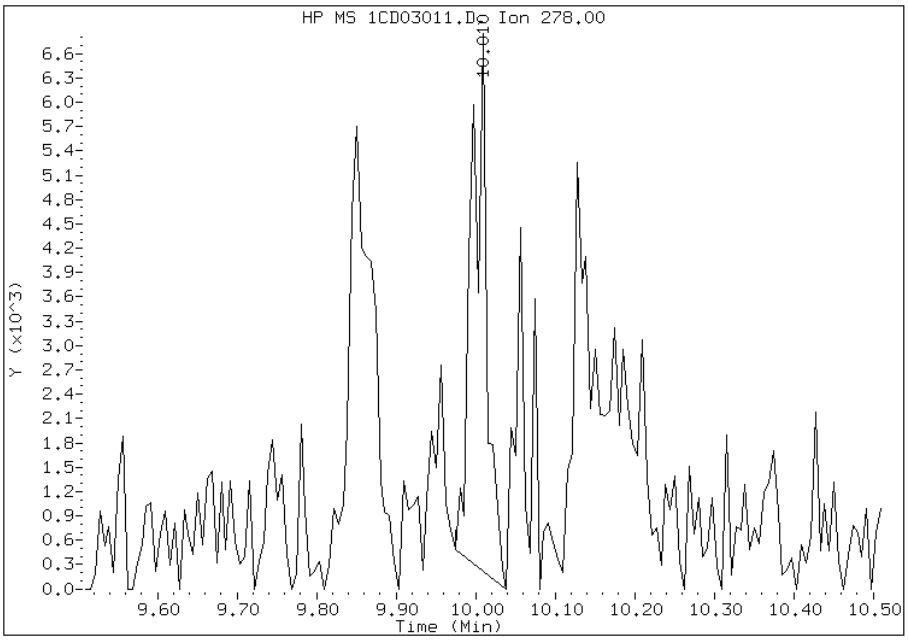
Manual Integration Results

RT: 10.01

Response: 8894

Amount: 0

Conc: 113



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:23
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD03011.D
Inj. Date and Time: 03-APR-2013 14:12
Instrument ID: BSMC5973.i
Client ID: CV0613AC-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

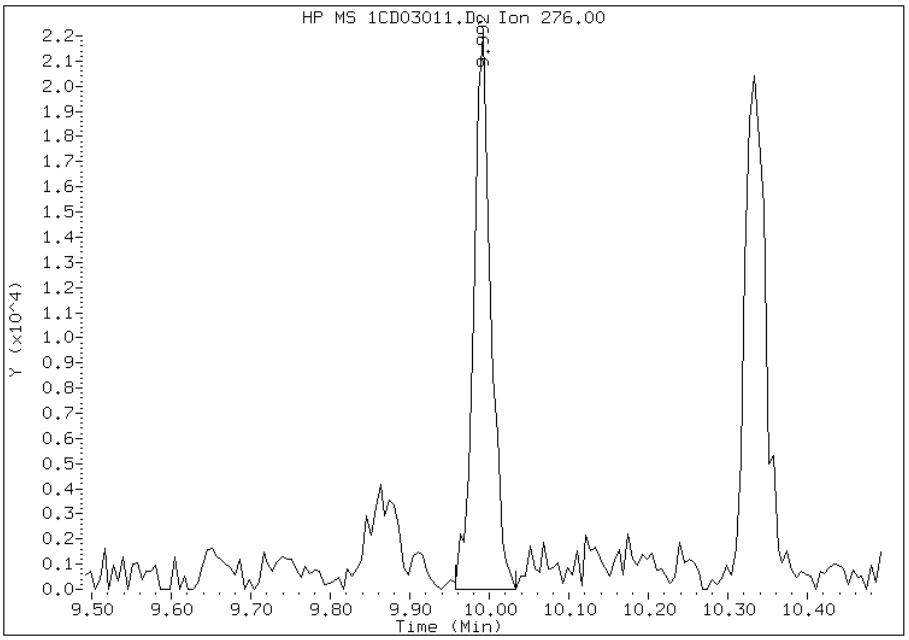
Processing Integration Results

RT: 9.99

Response: 33375

Amount: 1

Conc: 392



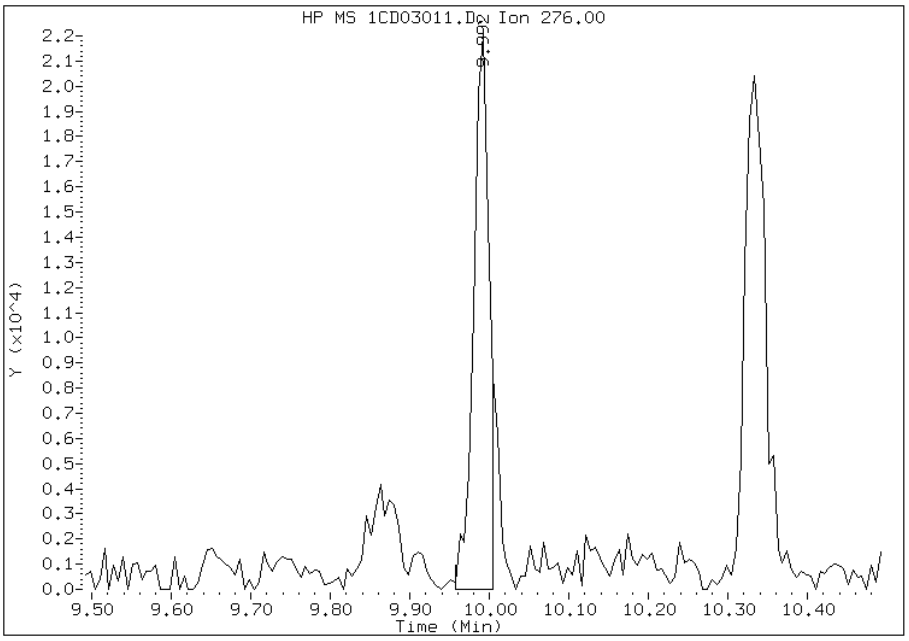
Manual Integration Results

RT: 9.99

Response: 29906

Amount: 1

Conc: 351



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:23
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-1

SDG No.: 68088766-1

Client Sample ID: CV0610A-CS | Lab Sample ID: 680-88766-16

Matrix: Solid | Lab File ID: 1CD03012.D

Analysis Method: 8270C LL | Date Collected: 03/25/2013 14:40

Extract. Method: 3546 | Date Extracted: 03/29/2013 10:19

Sample wt/vol: 14.82(g) | Date Analyzed: 04/03/2013 14:30

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

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

% Moisture: 17.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136081 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	98
208-96-8	Acenaphthylene	83	J	200	24
120-12-7	Anthracene	180		41	21
56-55-3	Benzo[a]anthracene	690		39	19
50-32-8	Benzo[a]pyrene	570		51	25
205-99-2	Benzo[b]fluoranthene	1000		60	30
191-24-2	Benzo[g,h,i]perylene	490		98	21
207-08-9	Benzo[k]fluoranthene	460		39	18
218-01-9	Chrysene	710		44	22
53-70-3	Dibenz(a,h)anthracene	150		98	20
206-44-0	Fluoranthene	1000		98	20
86-73-7	Fluorene	46	J	98	20
193-39-5	Indeno[1,2,3-cd]pyrene	360		98	35
90-12-0	1-Methylnaphthalene	100	J	200	21
91-57-6	2-Methylnaphthalene	120	J	200	35
91-20-3	Naphthalene	160	J	200	21
85-01-8	Phenanthrene	550		39	19
129-00-0	Pyrene	920		98	18

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\1C040313.b\1CD03012.D
Lab Smp Id: 680-88766-A-16-A Client Smp ID: CV0610A-CS
Inj Date : 03-APR-2013 14:30
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88766-a-16-a
Misc Info : 680-88766-A-16-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m
Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 12
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.820	Weight Extracted
M	17.068	% 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	3.710	3.704	(1.000)	663830	40.0000	
* 6 Acenaphthene-d10	164	4.792	4.792	(1.000)	524648	40.0000	
* 10 Phenanthrene-d10	188	5.739	5.739	(1.000)	934032	40.0000	
$ 14 o-Terphenyl	230	5.992	5.992	(1.044)	20066	2.04156	664.4322
* 18 Chrysene-d12	240	7.680	7.680	(1.000)	1057713	40.0000	
* 23 Perylene-d12	264	8.851	8.851	(1.000)	1038296	40.0000	
2 Naphthalene	128	3.722	3.722	(1.003)	8205	0.48122	156.6154(Q)
3 2-Methylnaphthalene	142	4.145	4.145	(1.117)	4129	0.35575	115.7803(M)
4 1-Methylnaphthalene	142	4.210	4.210	(1.135)	3275	0.31359	102.0593(Q)
5 Acenaphthylene	152	4.704	4.704	(0.982)	5505	0.25352	82.5103
9 Fluorene	166	5.133	5.133	(1.071)	2524	0.14078	45.8172
11 Phenanthrene	178	5.757	5.757	(1.003)	45612	1.67671	545.6893
12 Anthracene	178	5.792	5.792	(1.009)	15220	0.55192	179.6258
13 Carbazole	167	5.898	5.898	(1.028)	5243	0.22192	72.2241

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.592	6.592	(1.149)	95622	3.18287	1035.8762
16 Pyrene	202	6.757	6.757	(0.880)	82838	2.82729	920.1501
17 Benzo(a)anthracene	228	7.668	7.668	(0.998)	60938	2.12400	691.2636
19 Chrysene	228	7.698	7.698	(1.002)	65505	2.17334	707.3218
20 Benzo(b)fluoranthene	252	8.510	8.509	(0.961)	93624	3.18953	1038.0444(M)
21 Benzo(k)fluoranthene	252	8.521	8.533	(0.963)	40268	1.41838	461.6166(M)
22 Benzo(a)pyrene	252	8.792	8.798	(0.993)	48482	1.75433	570.9520
24 Indeno(1,2,3-cd)pyrene	276	9.992	9.992	(1.129)	29396	1.11991	364.4772(M)
25 Dibenzo(a,h)anthracene	278	10.004	10.009	(1.130)	11168	0.46058	149.8982
26 Benzo(g,h,i)perylene	276	10.333	10.339	(1.167)	39988	1.49265	485.7895

QC Flag Legend

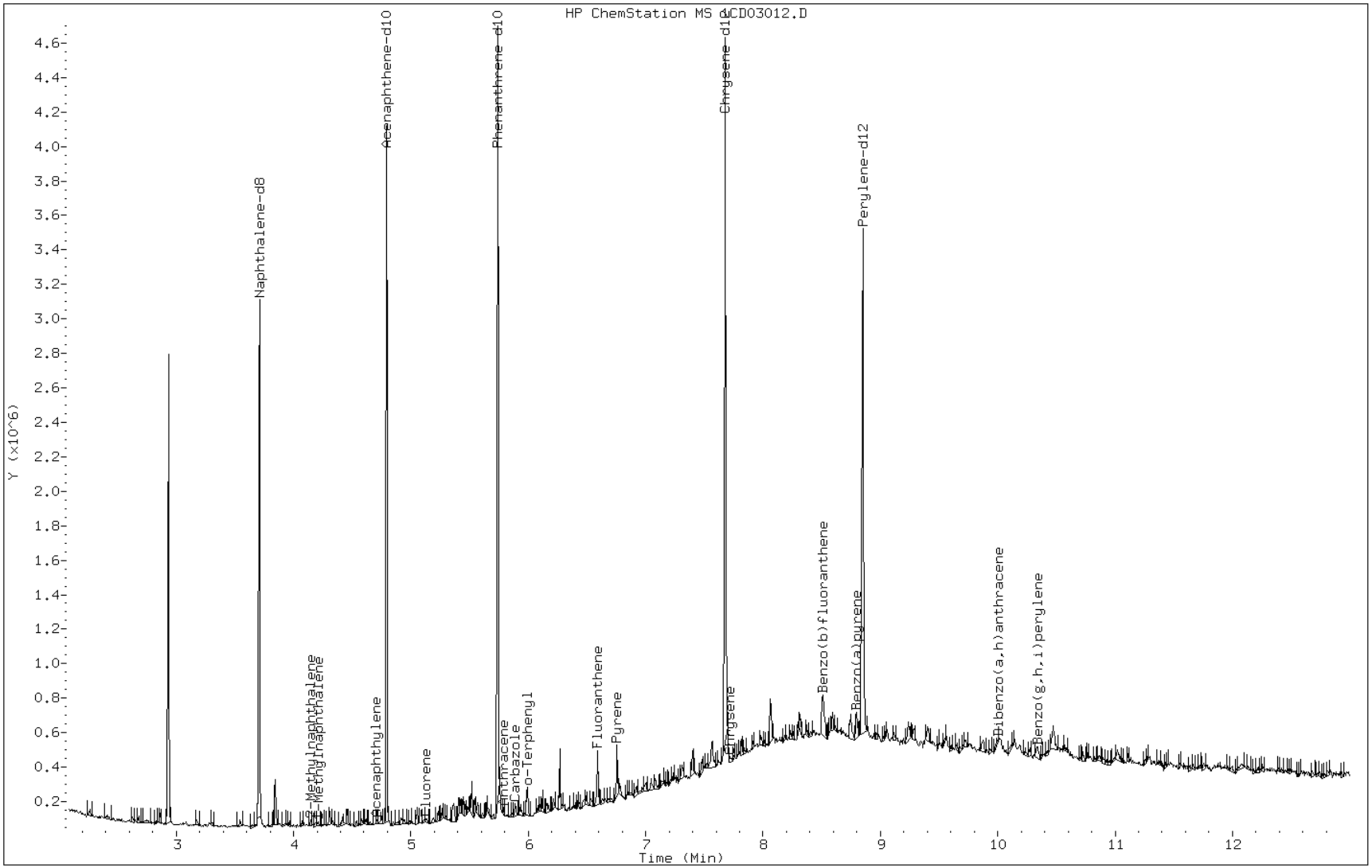
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD03012.D

Date: 03-APR-2013 14:30

Client ID: CV0610A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-16-a Operator: SCC



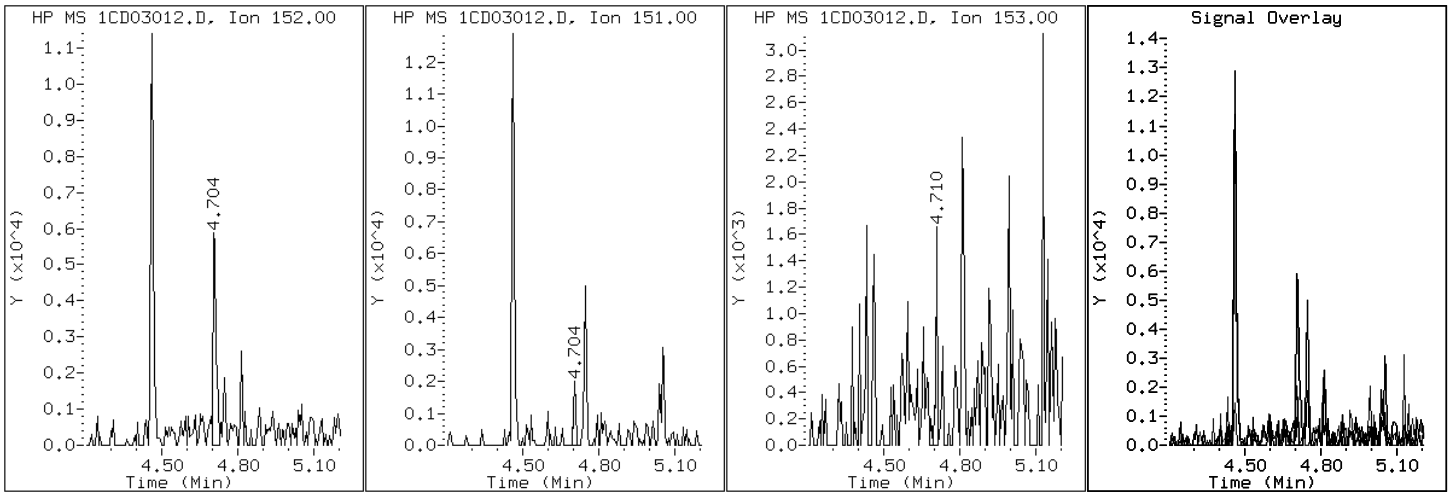
Data File: 1CD03012.D

Date: 03-APR-2013 14:30

Client ID: CV0610A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-16-a Operator: SCC

5 Acenaphthylene



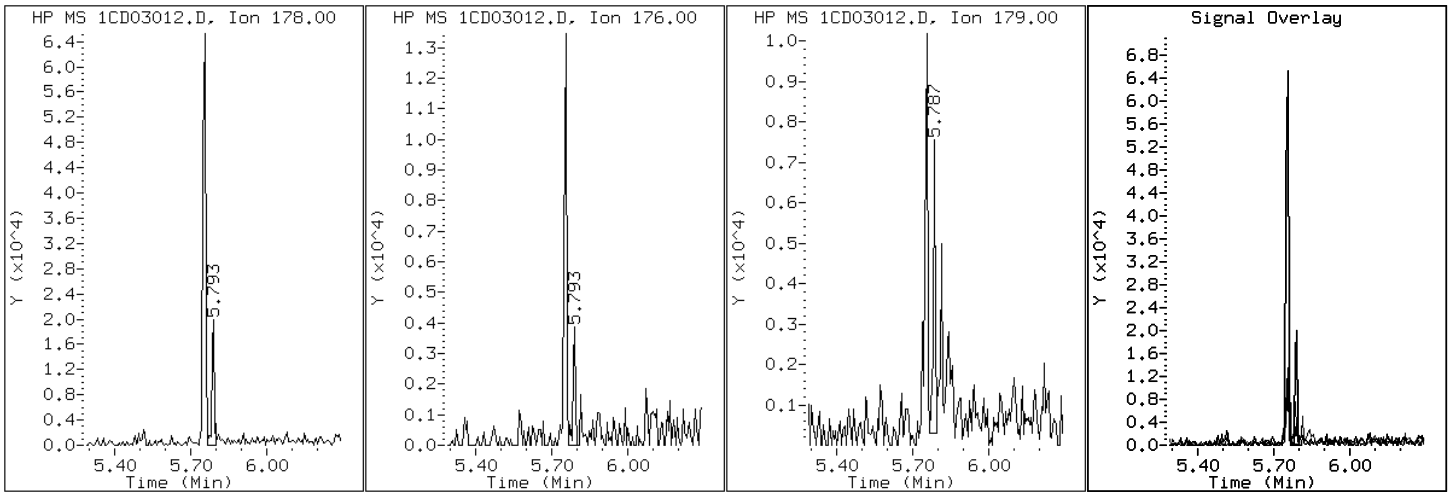
Data File: 1CD03012.D

Date: 03-APR-2013 14:30

Client ID: CV0610A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-16-a Operator: SCC

12 Anthracene



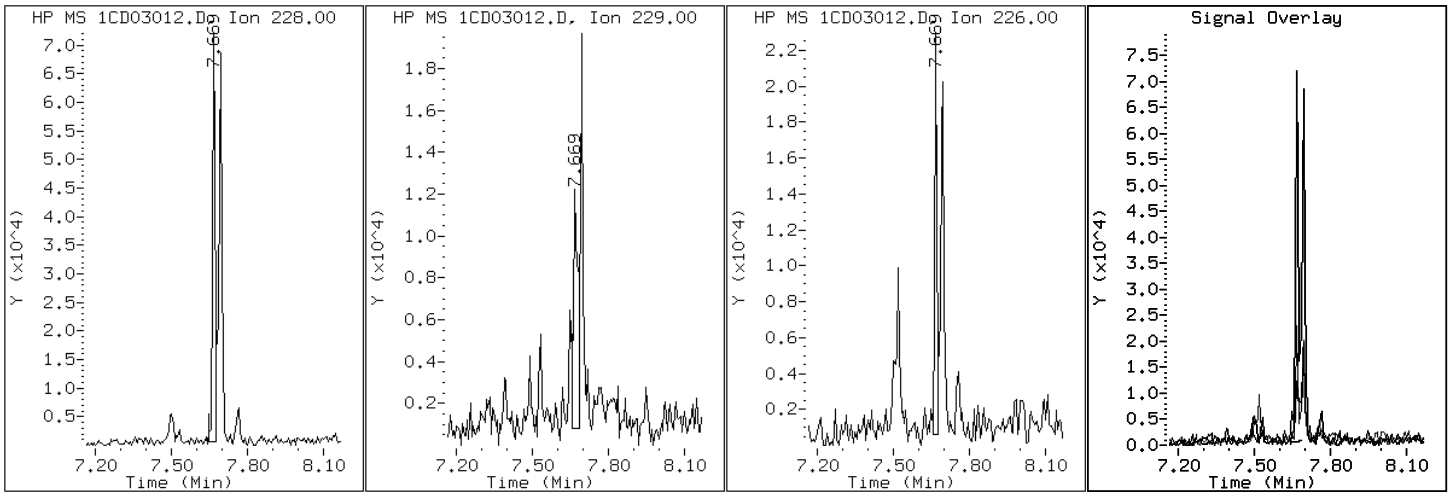
Data File: 1CD03012.D

Date: 03-APR-2013 14:30

Client ID: CV0610A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-16-a Operator: SCC

17 Benzo(a)anthracene



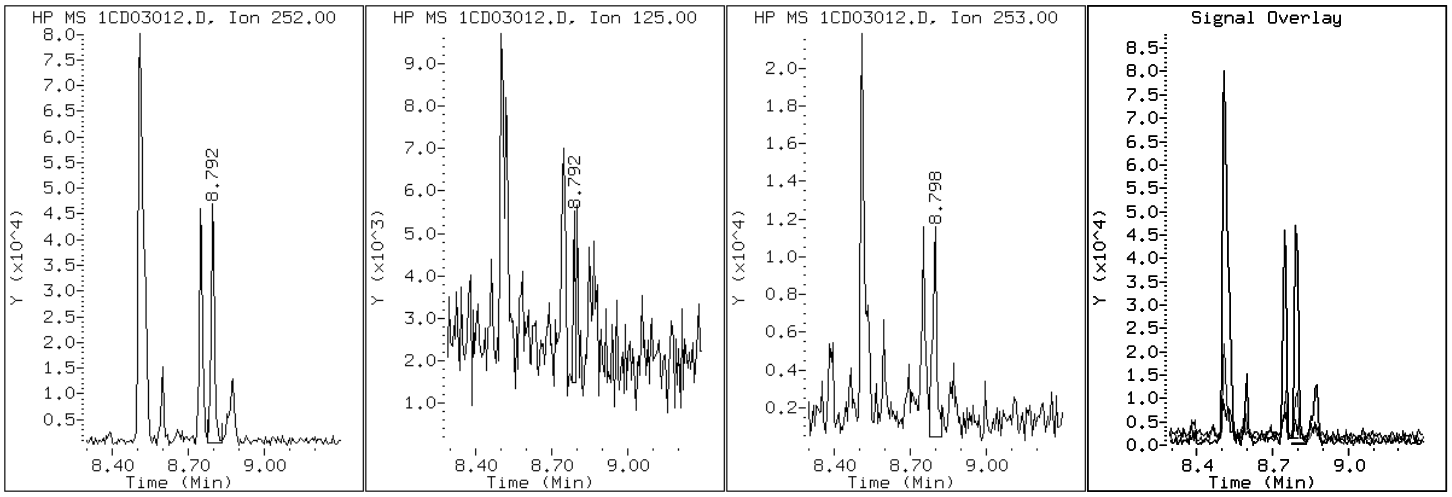
Data File: 1CD03012.D

Date: 03-APR-2013 14:30

Client ID: CV0610A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-16-a Operator: SCC

22 Benzo(a)pyrene



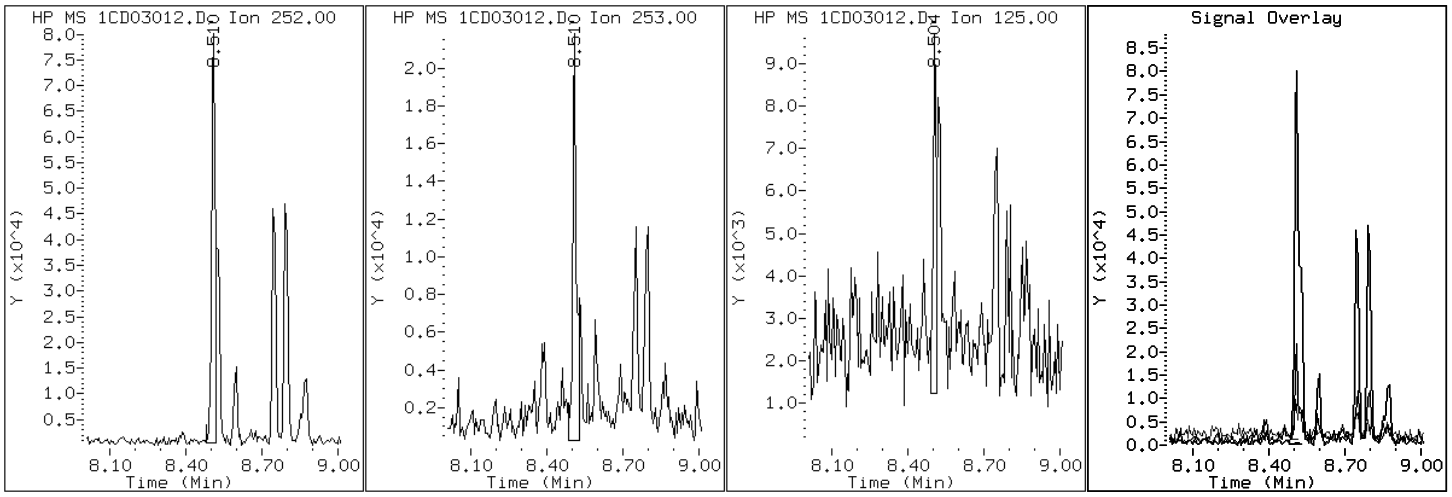
Data File: 1CD03012.D

Date: 03-APR-2013 14:30

Client ID: CV0610A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-16-a Operator: SCC

20 Benzo(b)fluoranthene



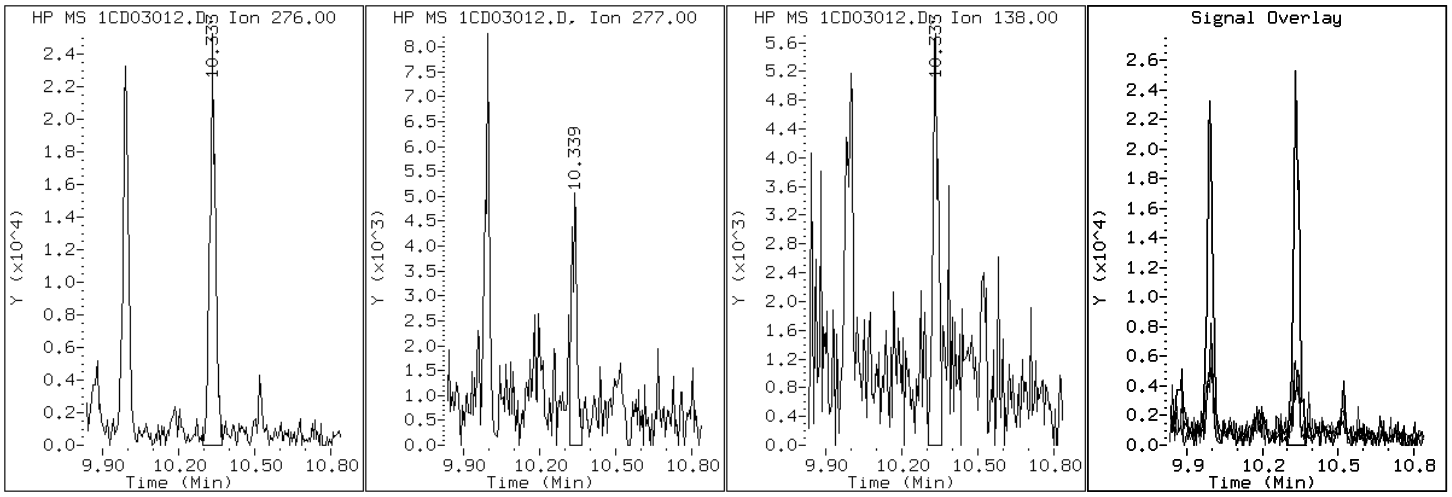
Data File: 1CD03012.D

Date: 03-APR-2013 14:30

Client ID: CV0610A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-16-a Operator: SCC

26 Benzo(g,h,i)perylene



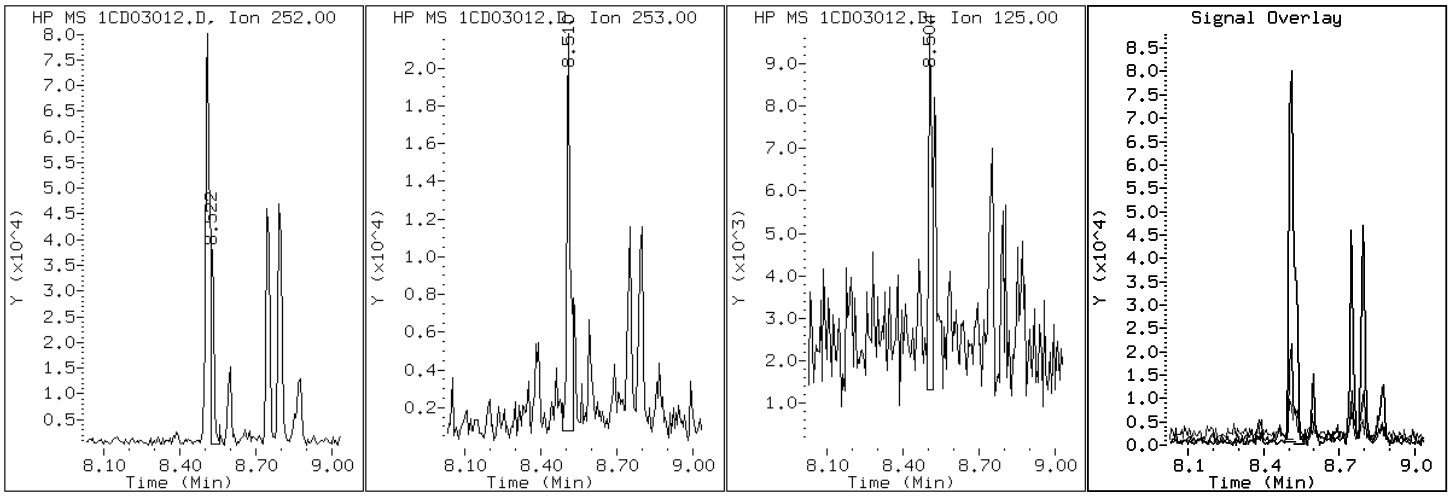
Data File: 1CD03012.D

Date: 03-APR-2013 14:30

Client ID: CV0610A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-16-a Operator: SCC

21 Benzo(k)fluoranthene



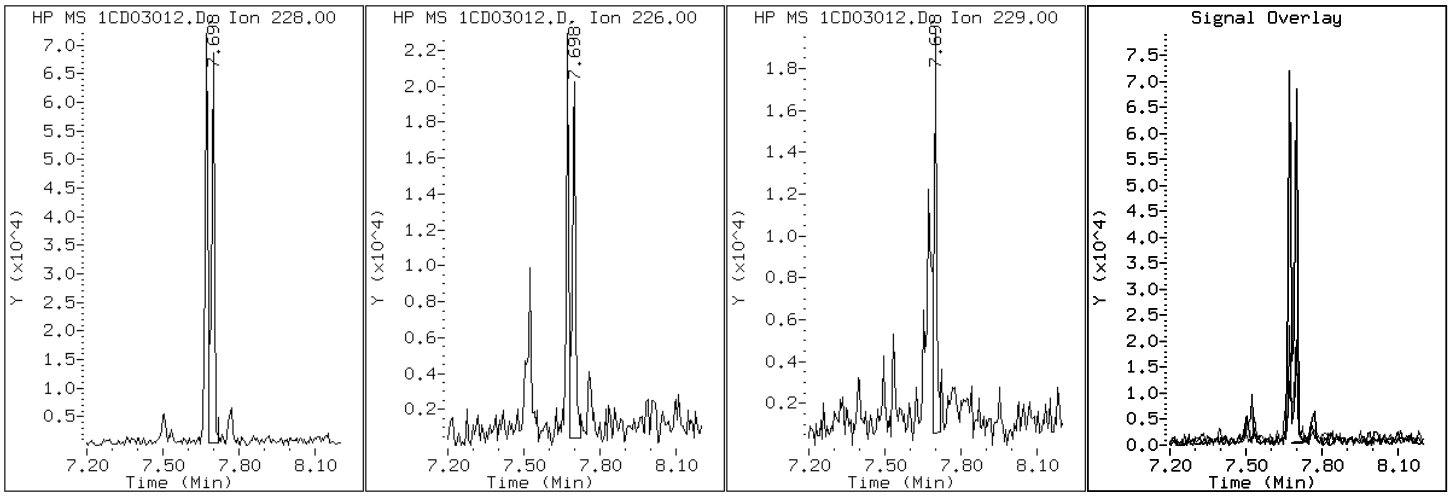
Data File: 1CD03012.D

Date: 03-APR-2013 14:30

Client ID: CV0610A-CS | Instrument: BSMC5973.i

Sample Info: 680-88766-a-16-a | Operator: SCC

19 Chrysene



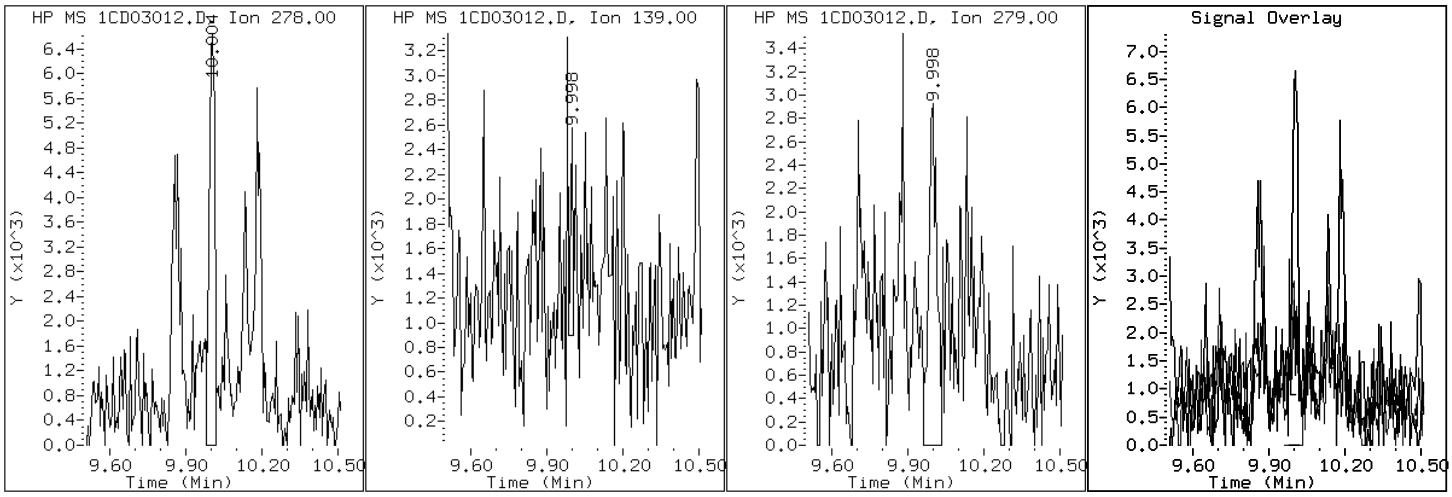
Data File: 1CD03012.D

Date: 03-APR-2013 14:30

Client ID: CV0610A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-16-a Operator: SCC

25 Dibenzo(a,h)anthracene



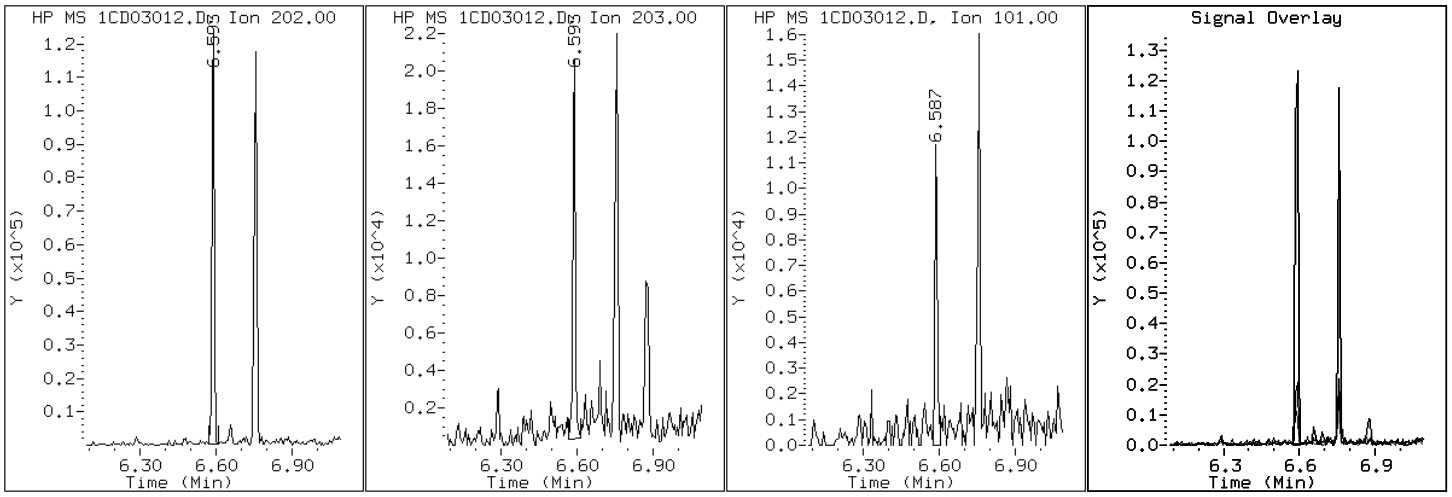
Data File: 1CD03012.D

Date: 03-APR-2013 14:30

Client ID: CV0610A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-16-a Operator: SCC

15 Fluoranthene



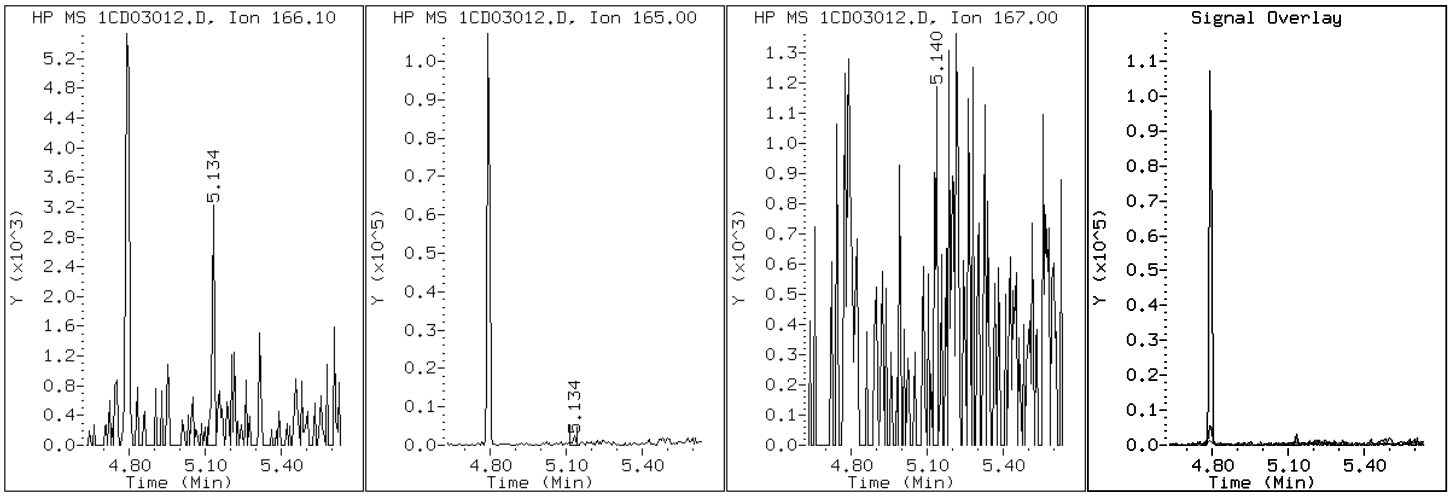
Data File: 1CD03012.D

Date: 03-APR-2013 14:30

Client ID: CV0610A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-16-a Operator: SCC

9 Fluorene



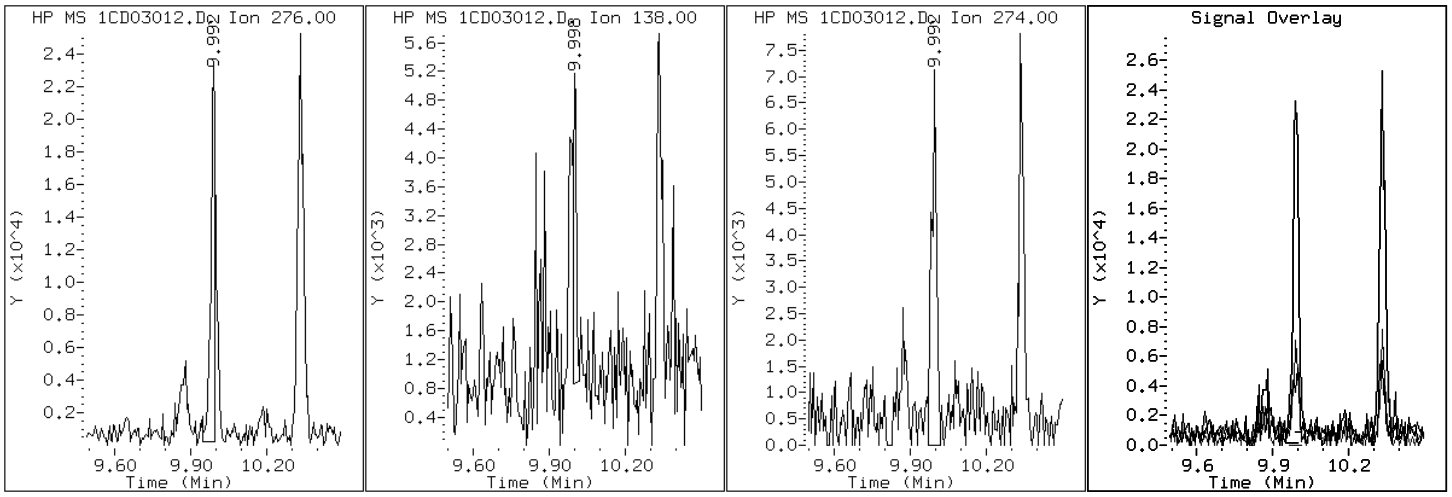
Data File: 1CD03012.D

Date: 03-APR-2013 14:30

Client ID: CV0610A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-16-a Operator: SCC

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



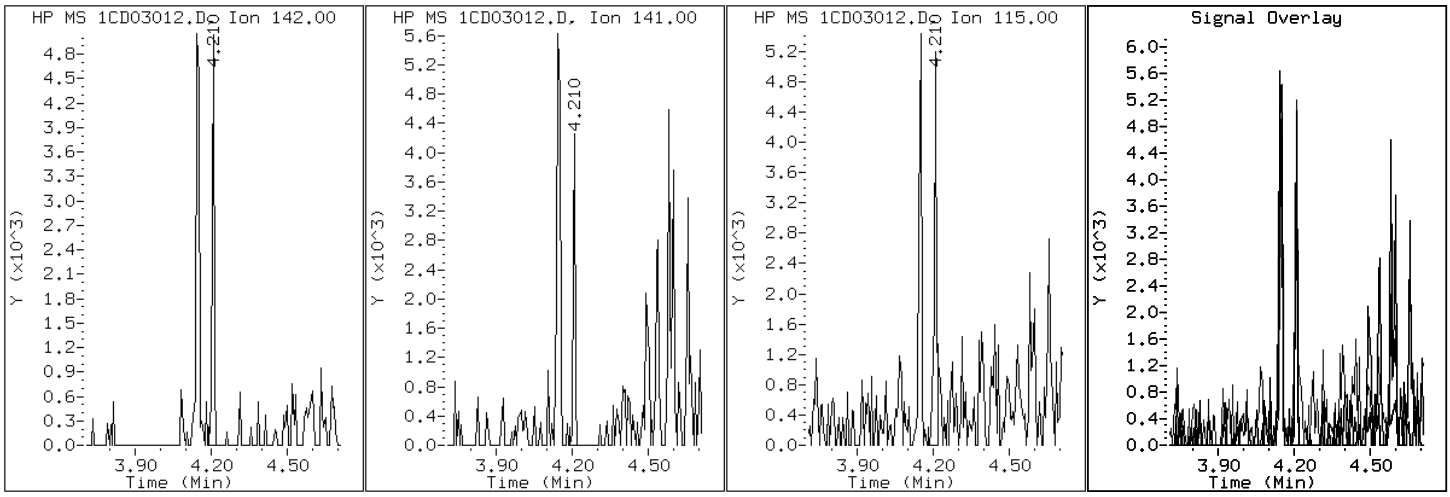
Data File: 1CD03012.D

Date: 03-APR-2013 14:30

Client ID: CV0610A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-16-a Operator: SCC

4 1-Methylnaphthalene



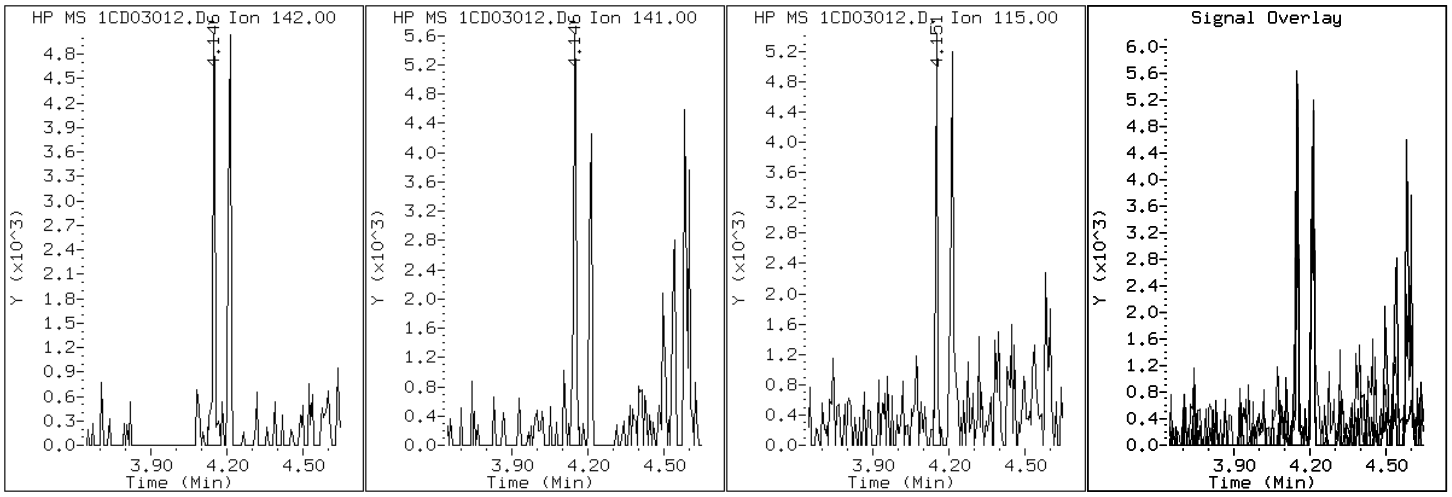
Data File: 1CD03012.D

Date: 03-APR-2013 14:30

Client ID: CV0610A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-16-a Operator: SCC

3 2-Methylnaphthalene



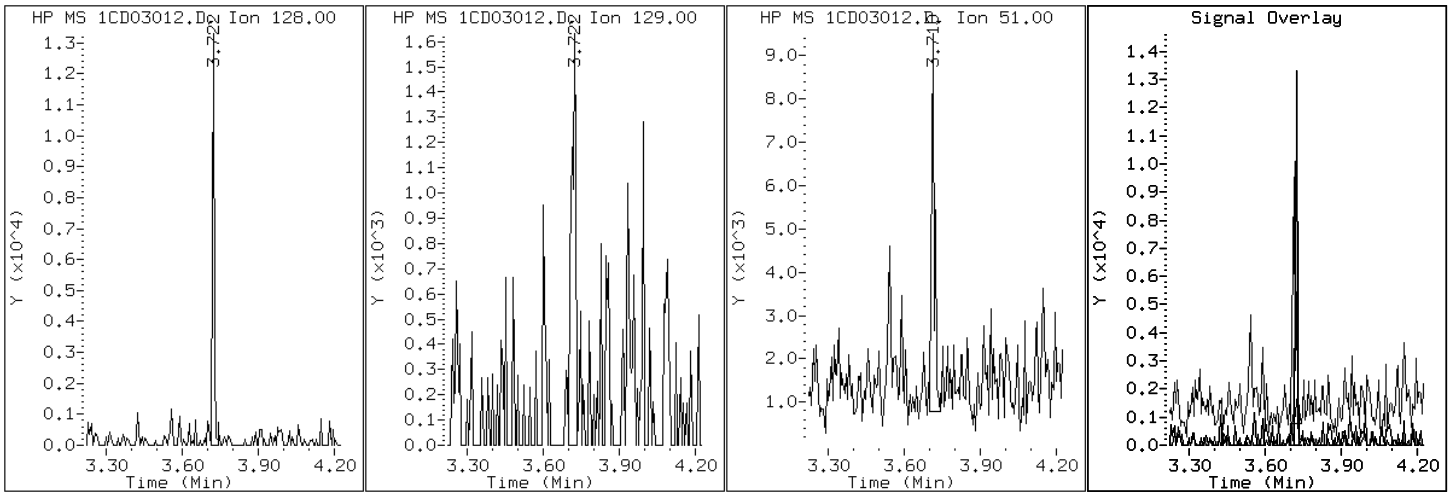
Data File: 1CD03012.D

Date: 03-APR-2013 14:30

Client ID: CV0610A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-16-a Operator: SCC

2 Naphthalene



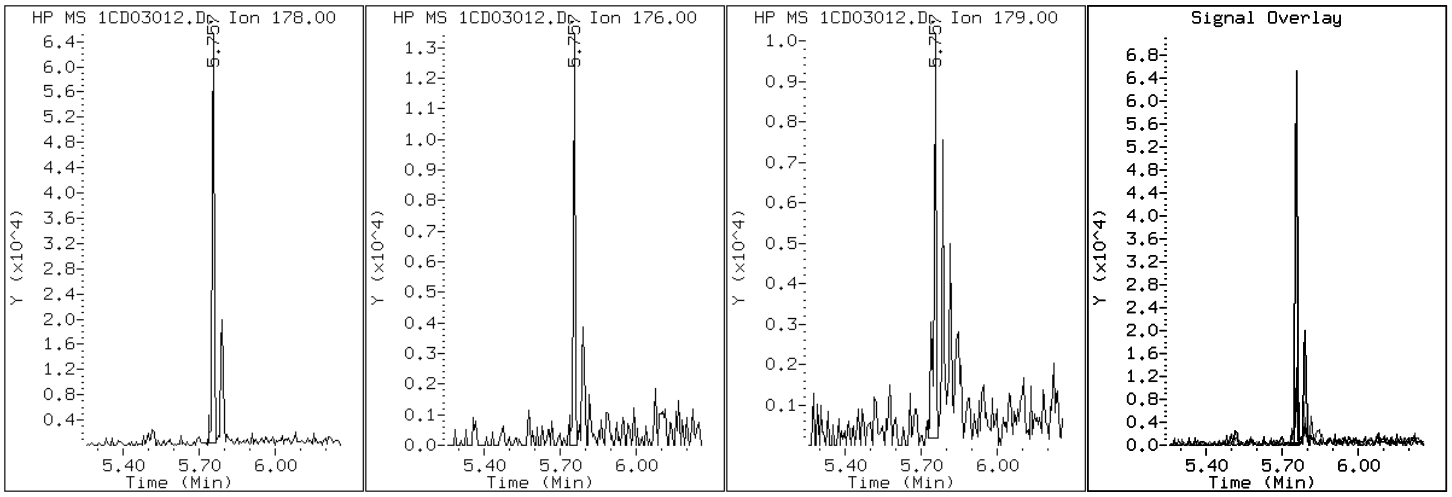
Data File: 1CD03012.D

Date: 03-APR-2013 14:30

Client ID: CV0610A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-16-a Operator: SCC

11 Phenanthrene



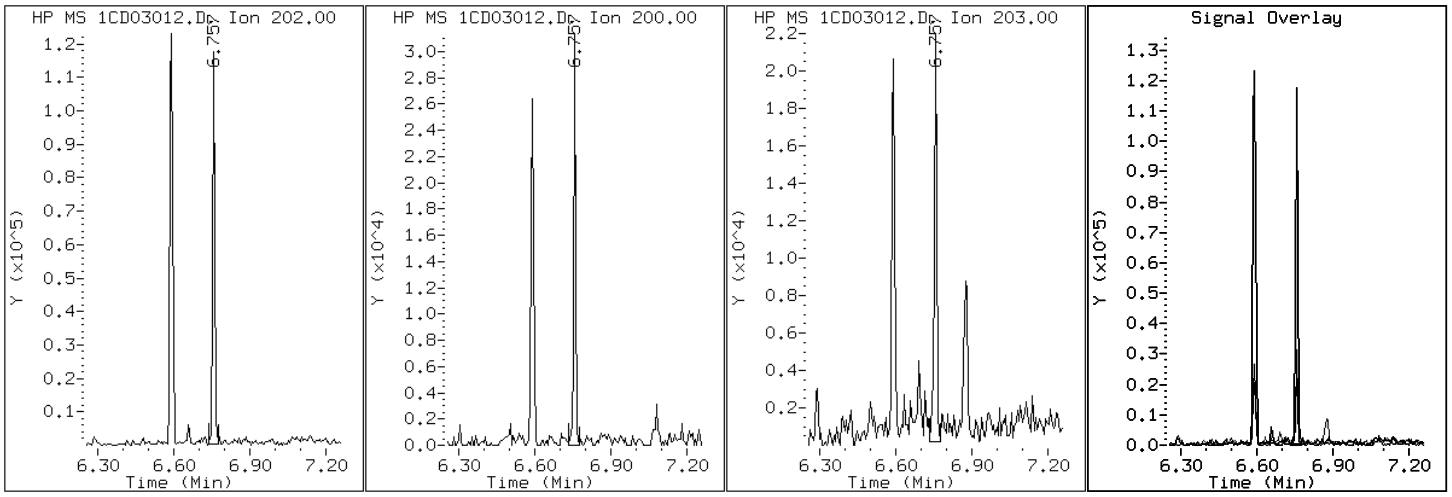
Data File: 1CD03012.D

Date: 03-APR-2013 14:30

Client ID: CV0610A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-16-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD03012.D
Inj. Date and Time: 03-APR-2013 14:30
Instrument ID: BSMC5973.i
Client ID: CV0610A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

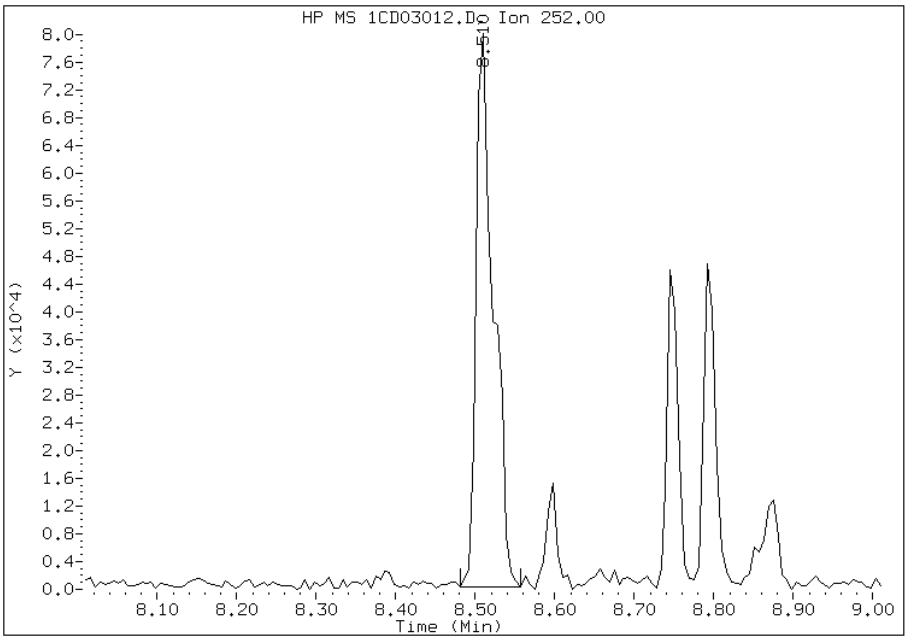
Processing Integration Results

RT: 8.51

Response: 120202

Amount: 4

Conc: 1333



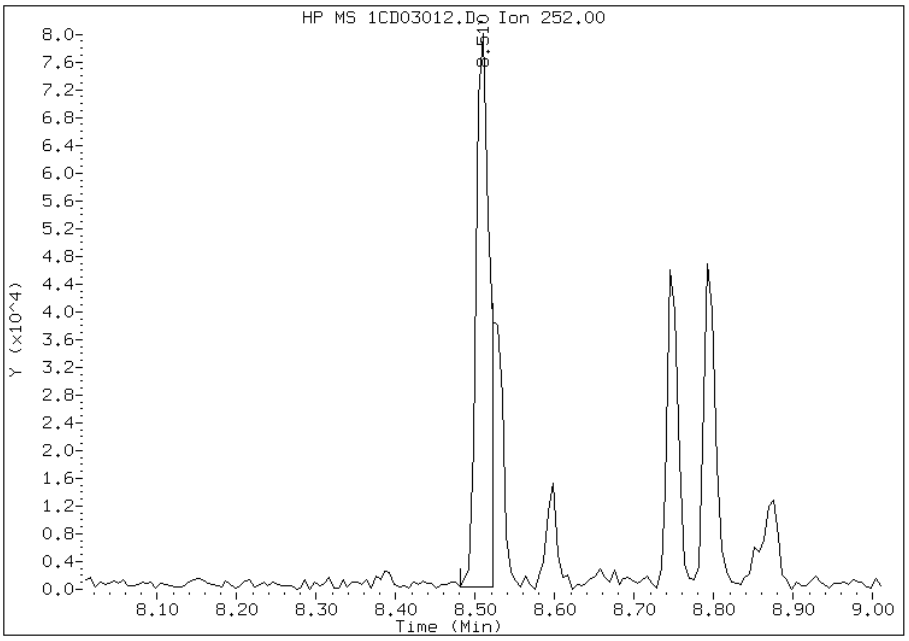
Manual Integration Results

RT: 8.51

Response: 93624

Amount: 3

Conc: 1038



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:24
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD03012.D
Inj. Date and Time: 03-APR-2013 14:30
Instrument ID: BSMC5973.i
Client ID: CV0610A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

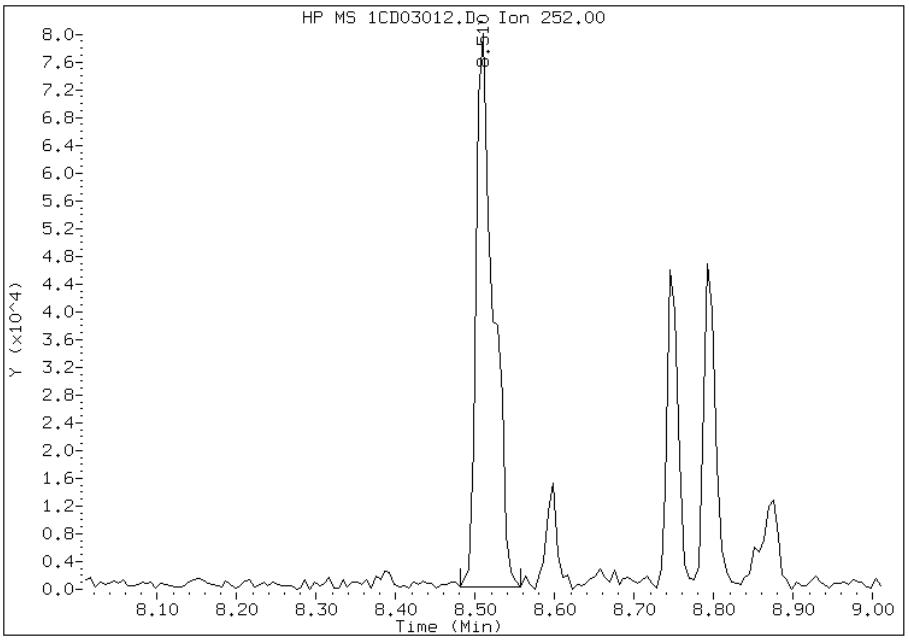
Processing Integration Results

RT: 8.51

Response: 120160

Amount: 4

Conc: 1377



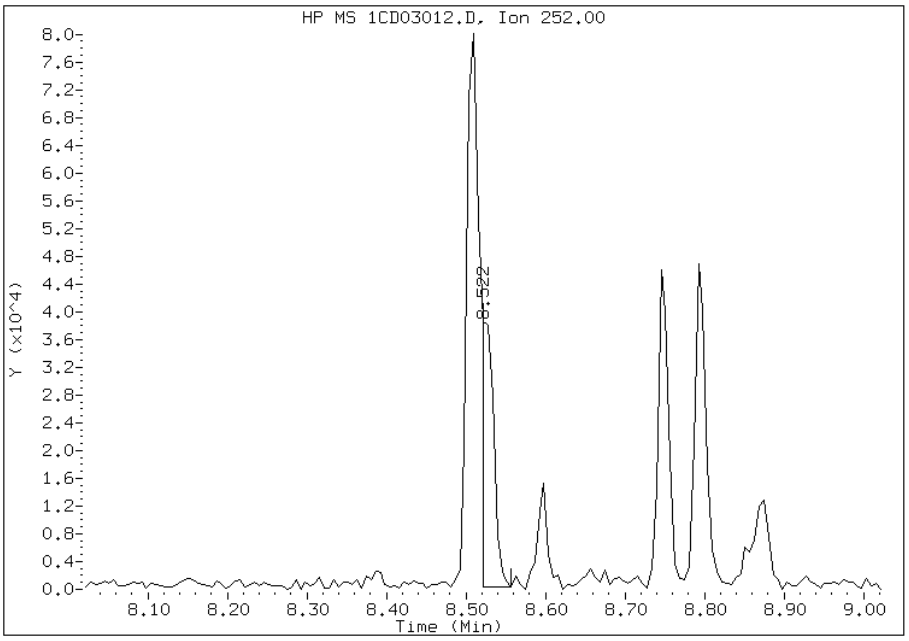
Manual Integration Results

RT: 8.52

Response: 40268

Amount: 1

Conc: 462



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:24
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD03012.D
Inj. Date and Time: 03-APR-2013 14:30
Instrument ID: BSMC5973.i
Client ID: CV0610A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

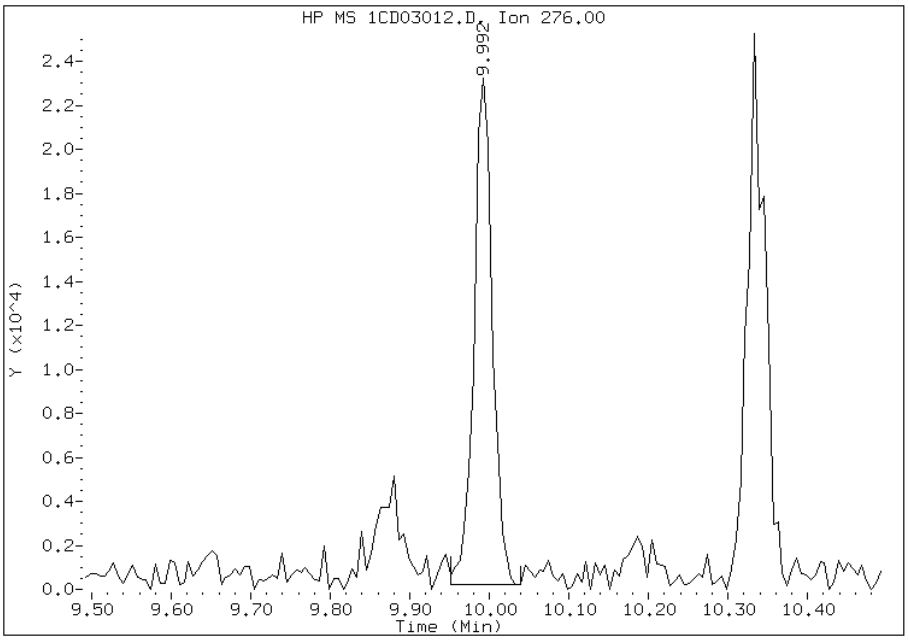
Processing Integration Results

RT: 9.99

Response: 36783

Amount: 1

Conc: 456



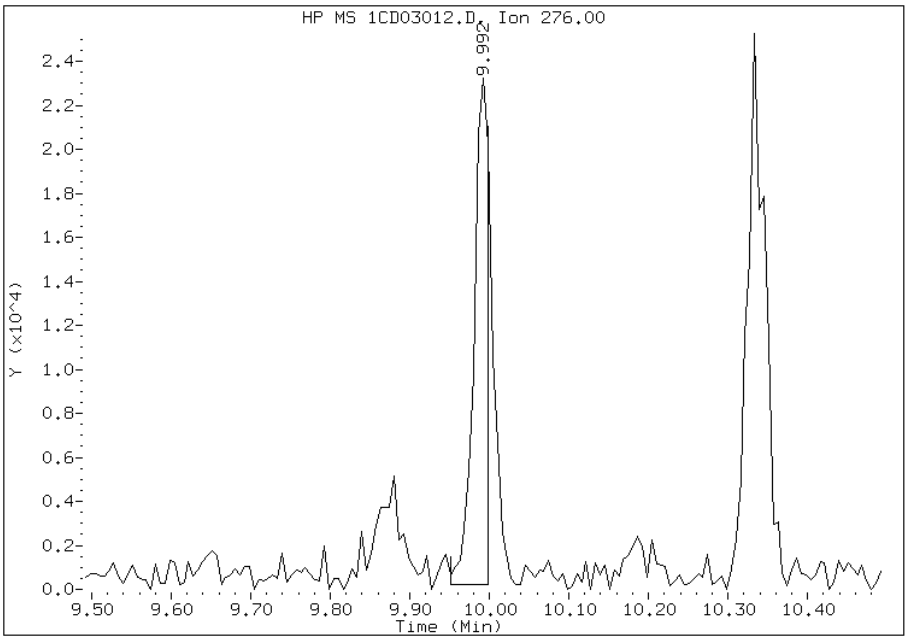
Manual Integration Results

RT: 9.99

Response: 29396

Amount: 1

Conc: 364



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:24
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD03012.D
Inj. Date and Time: 03-APR-2013 14:30
Instrument ID: BSMC5973.i
Client ID: CV0610A-CS
Compound: 3 2-Methylnaphthalene
CAS #: 91-57-6
Report Date: 04/03/2013

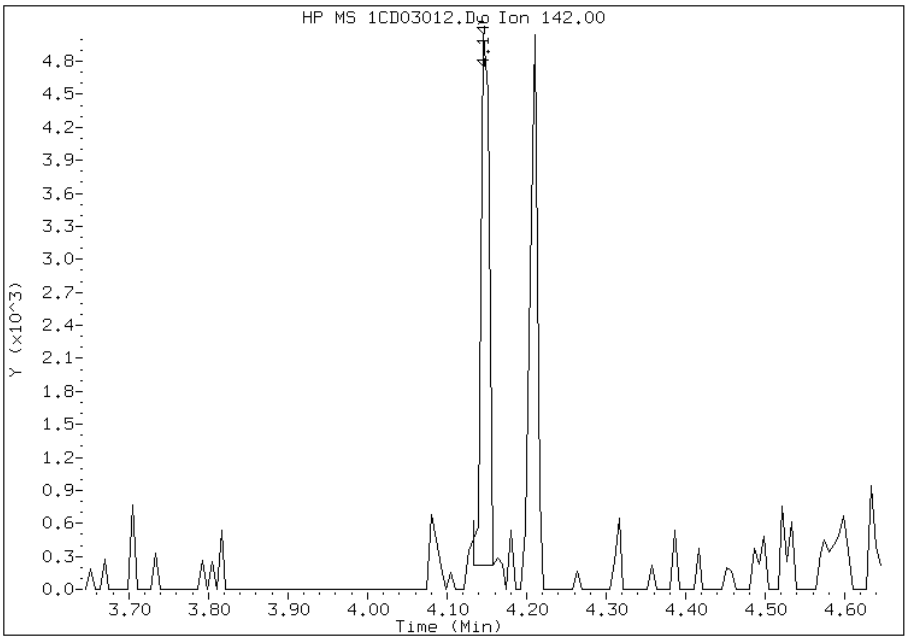
Processing Integration Results

RT: 4.15

Response: 3433

Amount: 0

Conc: 96



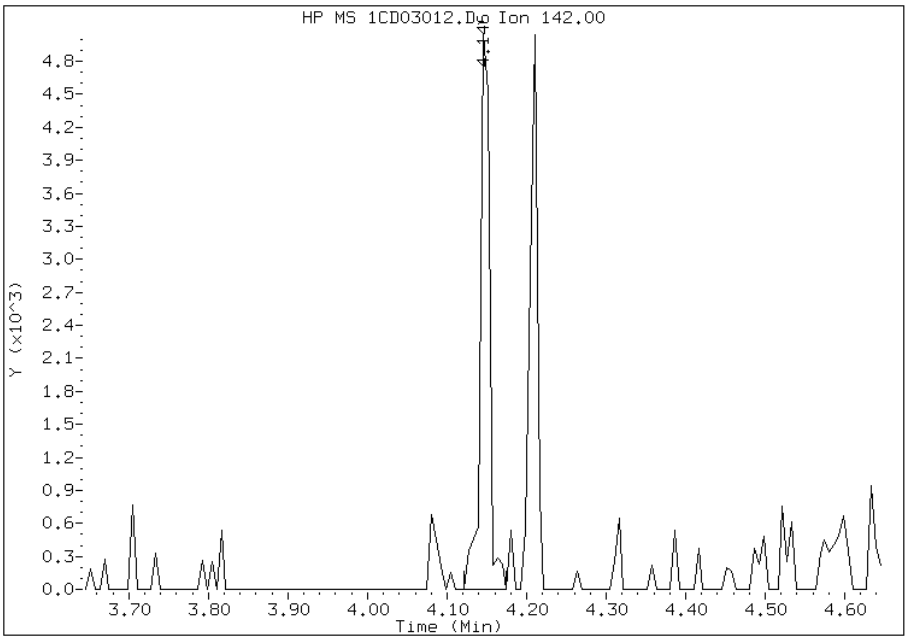
Manual Integration Results

RT: 4.15

Response: 4129

Amount: 0

Conc: 116



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:24
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-1

SDG No.: 68088766-1

Client Sample ID: CV0610B-CS | Lab Sample ID: 680-88766-17

Matrix: Solid | Lab File ID: 1CD03023.D

Analysis Method: 8270C LL | Date Collected: 03/25/2013 14:42

Extract. Method: 3546 | Date Extracted: 04/02/2013 11:33

Sample wt/vol: 14.97(g) | Date Analyzed: 04/03/2013 18:00

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

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

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

Analysis Batch No.: 136081 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	480	U	480	96
208-96-8	Acenaphthylene	41	J	190	24
120-12-7	Anthracene	120		40	20
56-55-3	Benzo[a]anthracene	490		38	19
50-32-8	Benzo[a]pyrene	380		50	25
205-99-2	Benzo[b]fluoranthene	780		58	29
191-24-2	Benzo[g,h,i]perylene	420		96	21
207-08-9	Benzo[k]fluoranthene	380		38	17
218-01-9	Chrysene	560		43	22
53-70-3	Dibenz(a,h)anthracene	120		96	20
206-44-0	Fluoranthene	670		96	19
86-73-7	Fluorene	41	J	96	20
193-39-5	Indeno[1,2,3-cd]pyrene	350		96	34
90-12-0	1-Methylnaphthalene	92	J	190	21
91-57-6	2-Methylnaphthalene	120	J	190	34
91-20-3	Naphthalene	150	J	190	21
85-01-8	Phenanthrene	370		38	19
129-00-0	Pyrene	600		96	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	115		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03023.D
Lab Smp Id: 680-88766-A-17-C Client Smp ID: CV0610B-CS
Inj Date : 03-APR-2013 18:00
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88766-a-17-c
Misc Info : 680-88766-A-17-C
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m
Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 23
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	16.310	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.710	3.704	(1.000)	543842	40.0000	
* 6 Acenaphthene-d10	164	4.792	4.792	(1.000)	400070	40.0000	
* 10 Phenanthrene-d10	188	5.739	5.739	(1.000)	732588	40.0000	
$ 14 o-Terphenyl	230	5.992	5.992	(1.044)	25757	2.87941	919.3221
* 18 Chrysene-d12	240	7.680	7.680	(1.000)	822003	40.0000	
* 23 Perylene-d12	264	8.850	8.851	(1.000)	790071	40.0000	
2 Naphthalene	128	3.721	3.722	(1.003)	6771	0.48473	154.7635(Q)
3 2-Methylnaphthalene	142	4.145	4.145	(1.117)	3456	0.36346	116.0442
4 1-Methylnaphthalene	142	4.210	4.210	(1.135)	2458	0.28729	91.7240
5 Acenaphthylene	152	4.710	4.704	(0.983)	2132	0.12876	41.1098
9 Fluorene	166	5.127	5.133	(1.070)	1748	0.12786	40.8214
11 Phenanthrene	178	5.757	5.757	(1.003)	24836	1.16402	371.6427
12 Anthracene	178	5.792	5.792	(1.009)	7878	0.36424	116.2914
13 Carbazole	167	5.898	5.898	(1.028)	4611	0.24883	79.4465

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.592	6.592	(1.149)	49325	2.09329	668.3360
16 Pyrene	202	6.757	6.757	(0.880)	42439	1.86380	595.0650
17 Benzo(a)anthracene	228	7.668	7.668	(0.998)	33538	1.54375	492.8816
19 Chrysene	228	7.698	7.698	(1.002)	41053	1.75264	559.5742
20 Benzo(b)fluoranthene	252	8.509	8.509	(0.961)	54901	2.45796	784.7653(M)
21 Benzo(k)fluoranthene	252	8.521	8.533	(0.963)	25469	1.17896	376.4125(QM)
22 Benzo(a)pyrene	252	8.792	8.798	(0.993)	24823	1.18043	376.8809
24 Indeno(1,2,3-cd)pyrene	276	9.992	9.992	(1.129)	21734	1.08815	347.4183(M)
25 Dibenzo(a,h)anthracene	278	10.009	10.009	(1.131)	6958	0.37711	120.4027(M)
26 Benzo(g,h,i)perylene	276	10.333	10.339	(1.167)	26975	1.32326	422.4844(M)

QC Flag Legend

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

Data File: 1CD03023.D

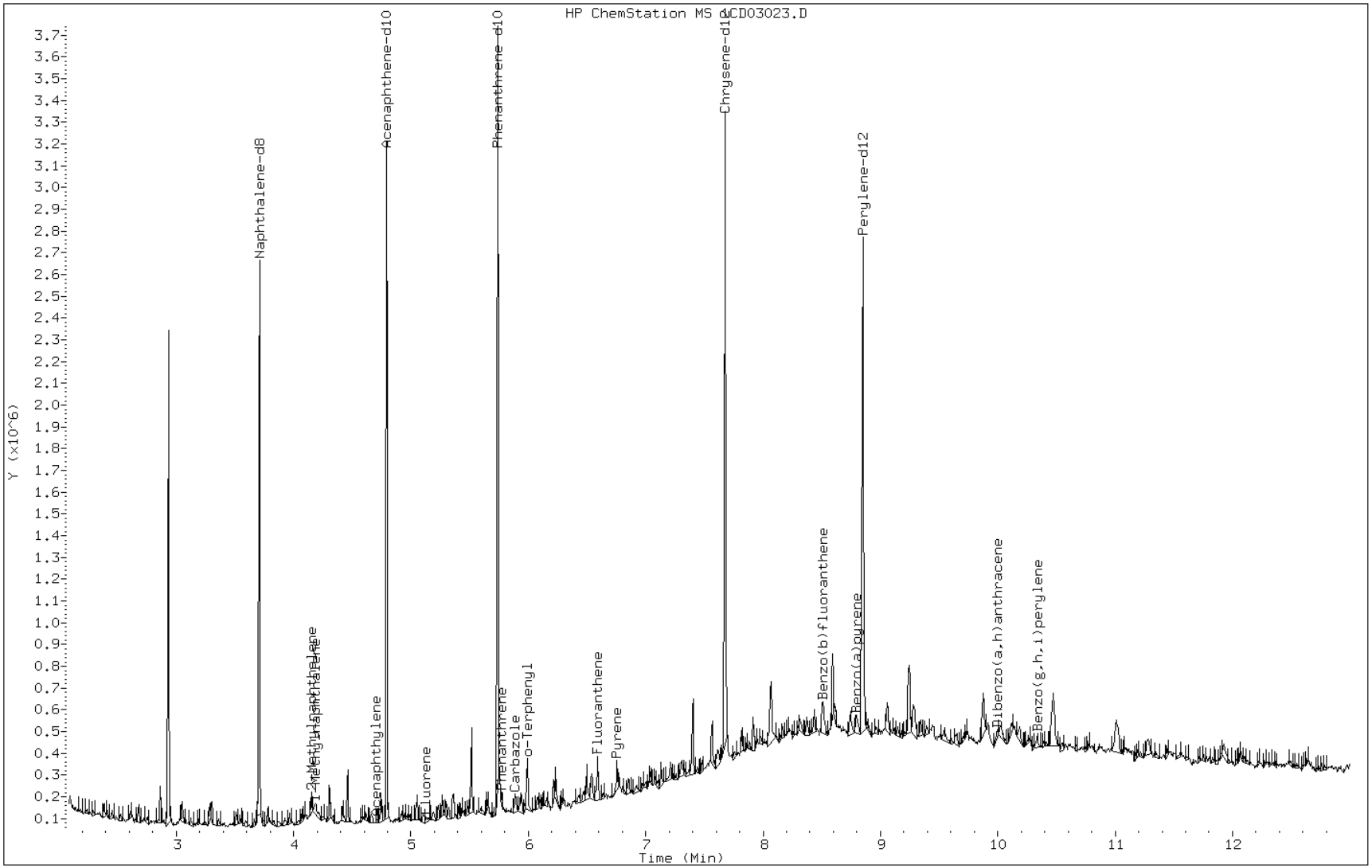
Date: 03-APR-2013 18:00

Client ID: CV0610B-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-17-c

Operator: SCC



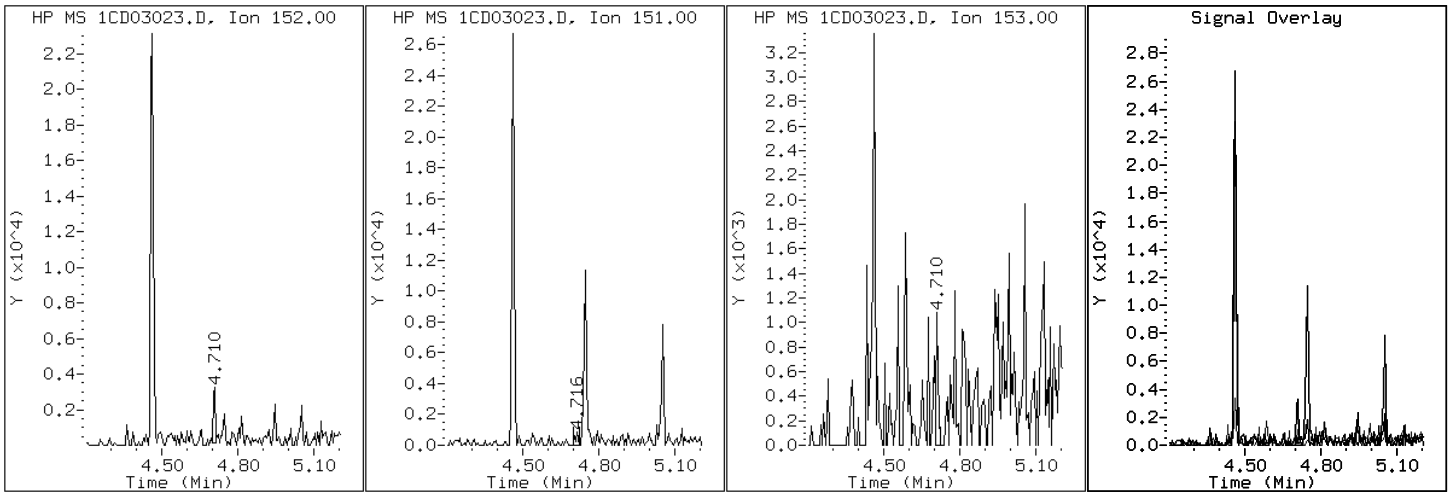
Data File: 1CD03023.D

Date: 03-APR-2013 18:00

Client ID: CV0610B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-17-c Operator: SCC

5 Acenaphthylene



Data File: 1CD03023.D

Date: 03-APR-2013 18:00

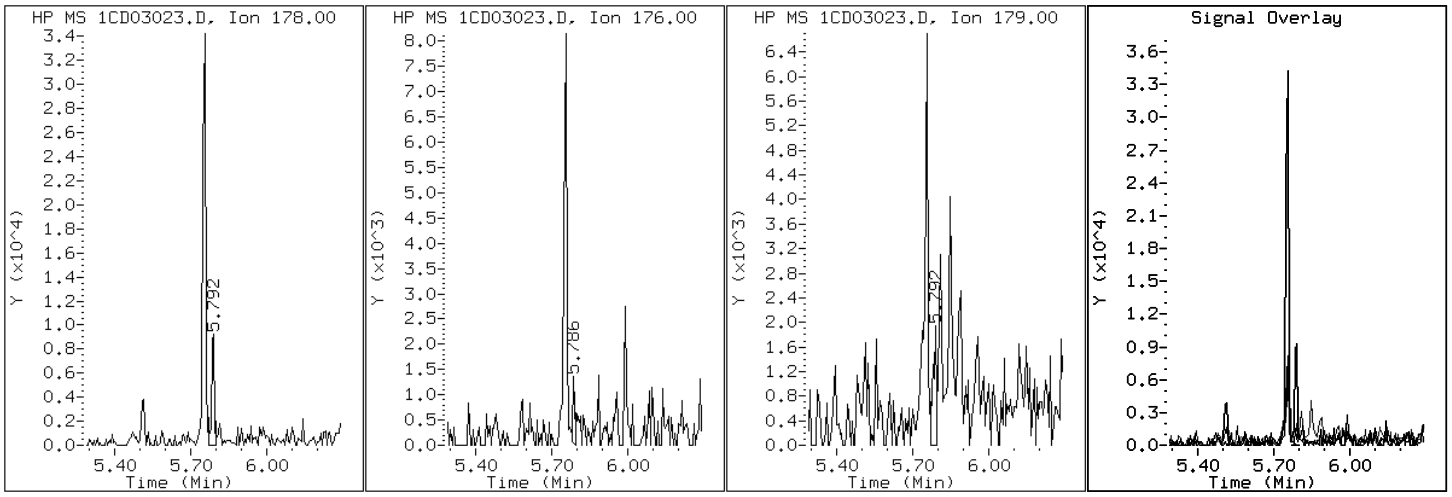
Client ID: CV0610B-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-17-c

Operator: SCC

12 Anthracene



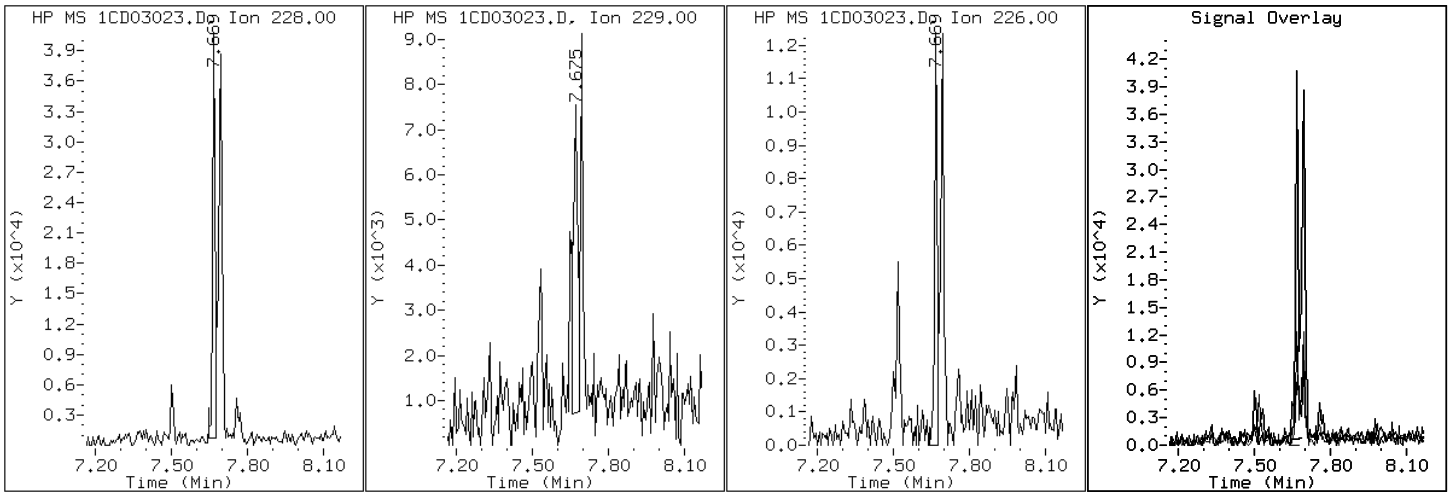
Data File: 1CD03023.D

Date: 03-APR-2013 18:00

Client ID: CV0610B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-17-c Operator: SCC

17 Benzo(a)anthracene



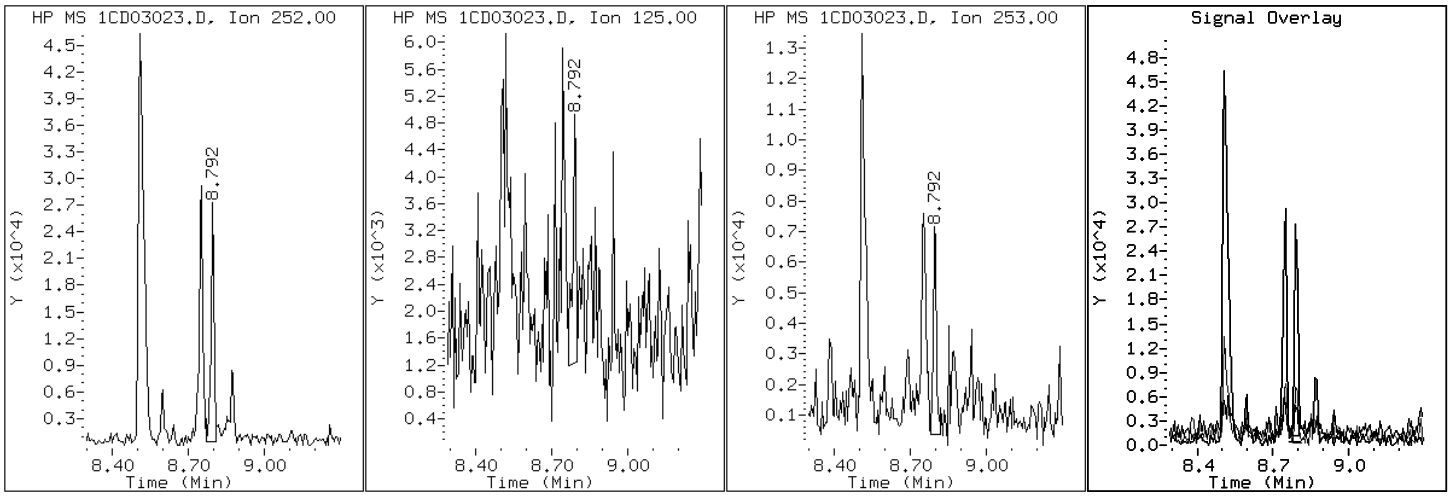
Data File: 1CD03023.D

Date: 03-APR-2013 18:00

Client ID: CV0610B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-17-c Operator: SCC

22 Benzo(a)pyrene



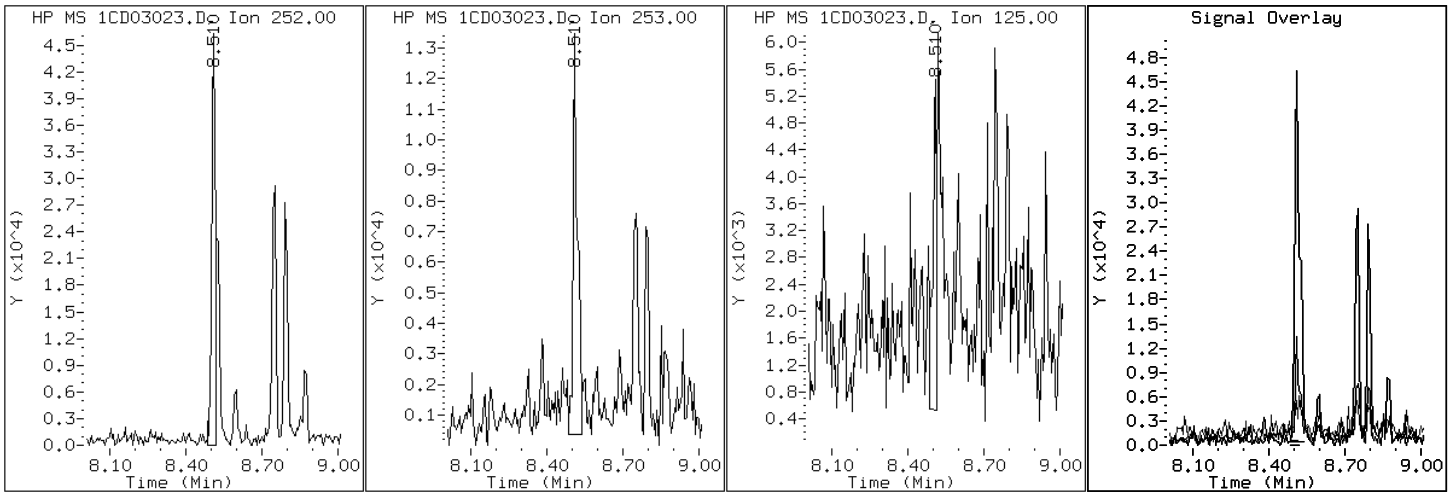
Data File: 1CD03023.D

Date: 03-APR-2013 18:00

Client ID: CV0610B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-17-c Operator: SCC

20 Benzo(b)fluoranthene



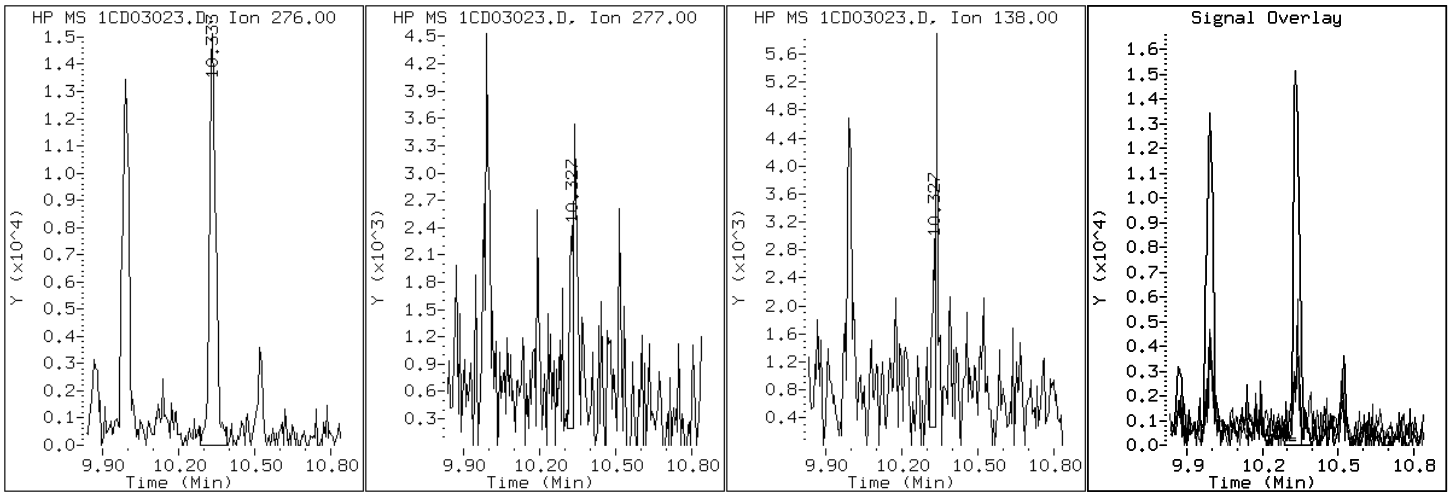
Data File: 1CD03023.D

Date: 03-APR-2013 18:00

Client ID: CV0610B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-17-c Operator: SCC

26 Benzo(g,h,i)perylene



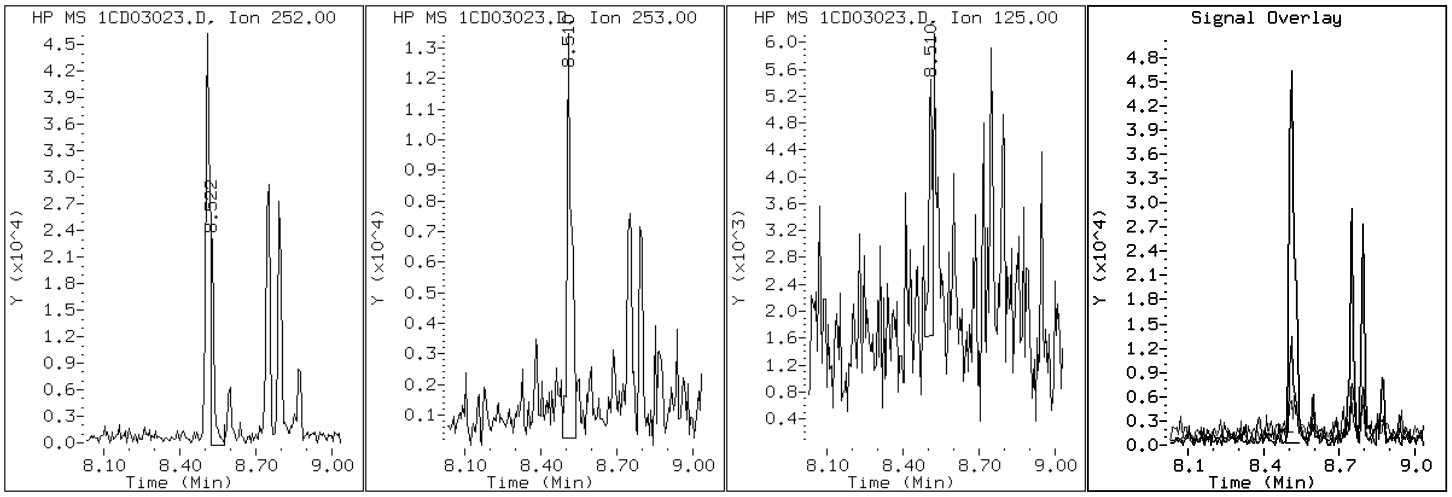
Data File: 1CD03023.D

Date: 03-APR-2013 18:00

Client ID: CV0610B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-17-c Operator: SCC

21 Benzo(k)fluoranthene



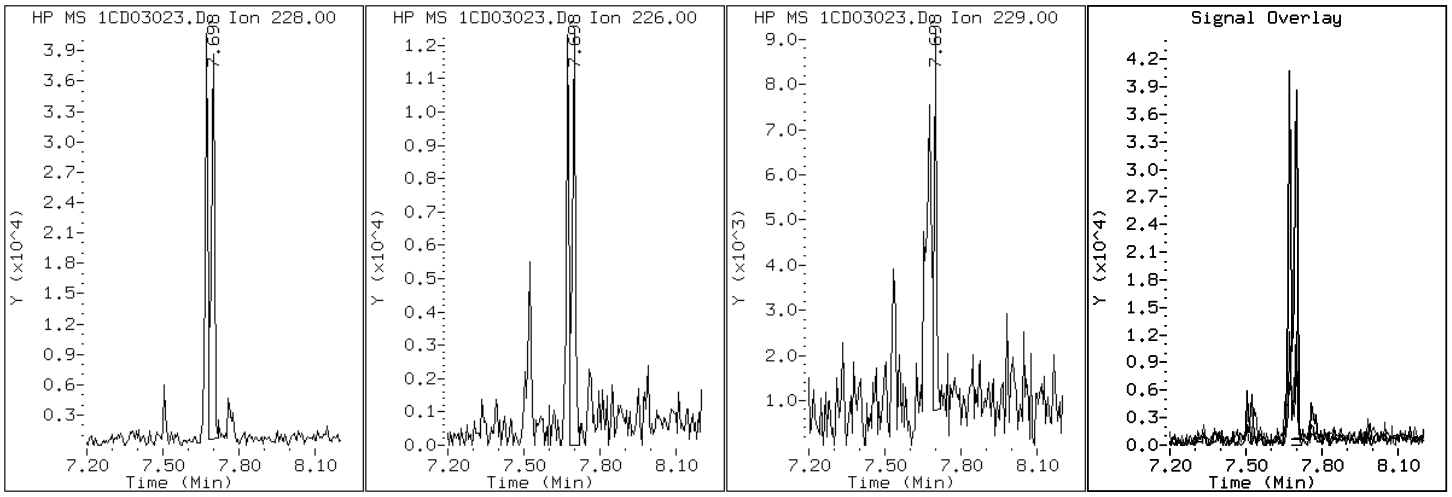
Data File: 1CD03023.D

Date: 03-APR-2013 18:00

Client ID: CV0610B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-17-c Operator: SCC

19 Chrysene



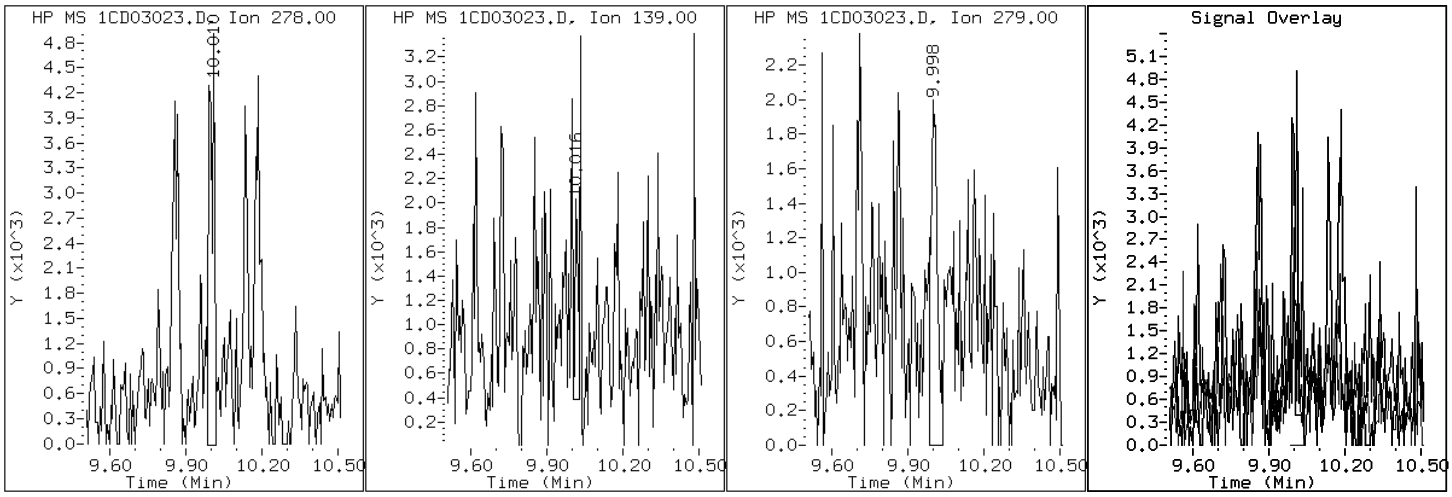
Data File: 1CD03023.D

Date: 03-APR-2013 18:00

Client ID: CV0610B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-17-c Operator: SCC

25 Dibenzo(a,h)anthracene



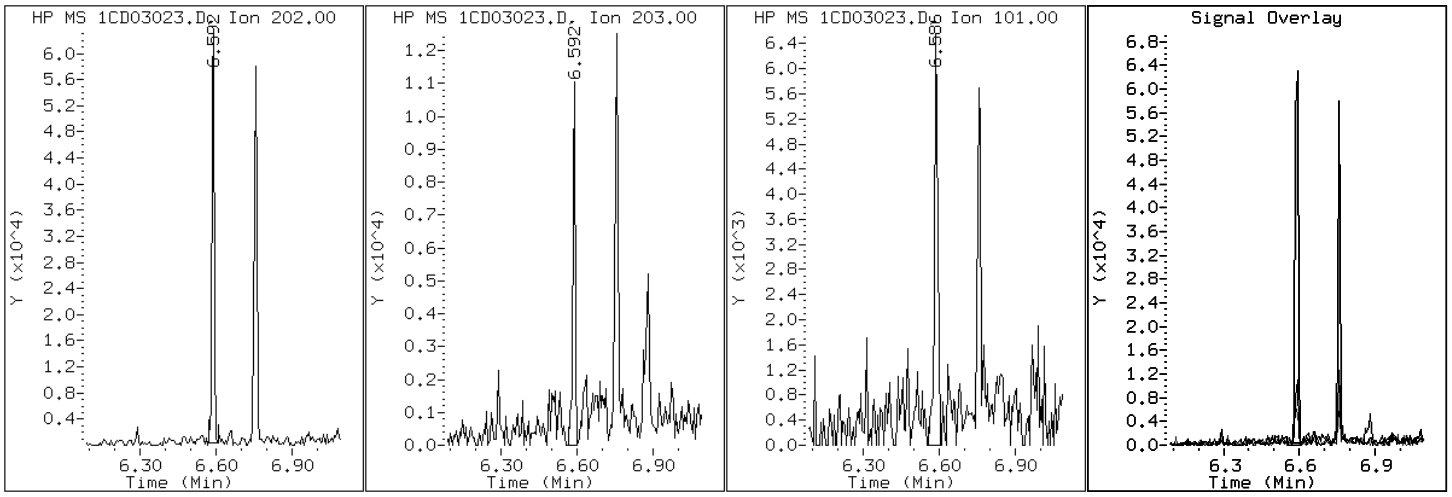
Data File: 1CD03023.D

Date: 03-APR-2013 18:00

Client ID: CV0610B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-17-c Operator: SCC

15 Fluoranthene



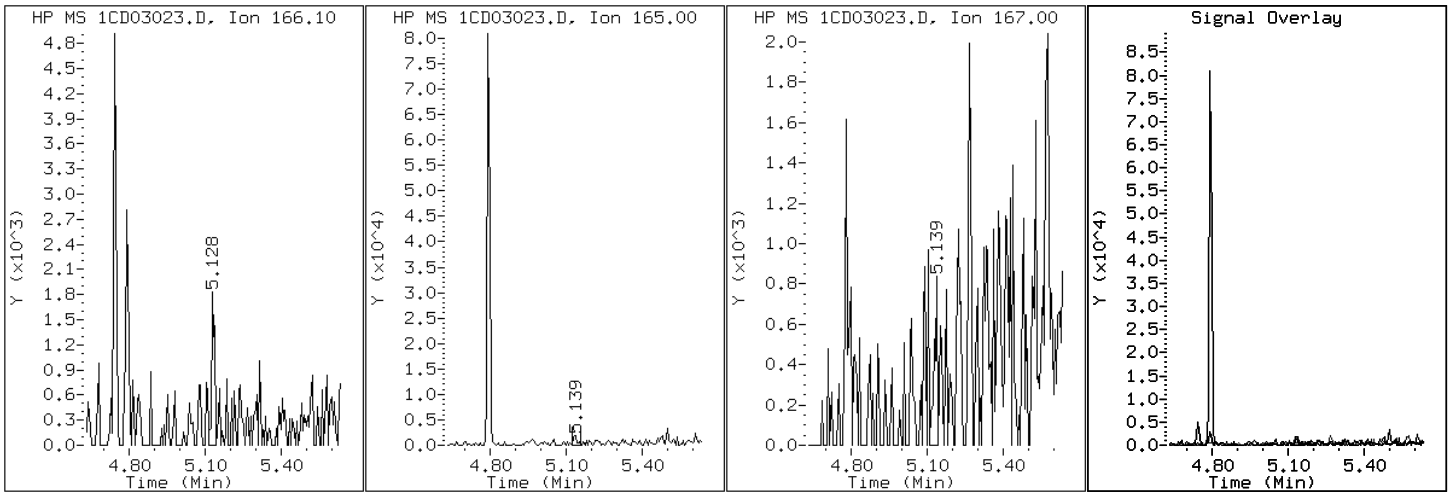
Data File: 1CD03023.D

Date: 03-APR-2013 18:00

Client ID: CV0610B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-17-c Operator: SCC

9 Fluorene



Data File: 1CD03023.D

Date: 03-APR-2013 18:00

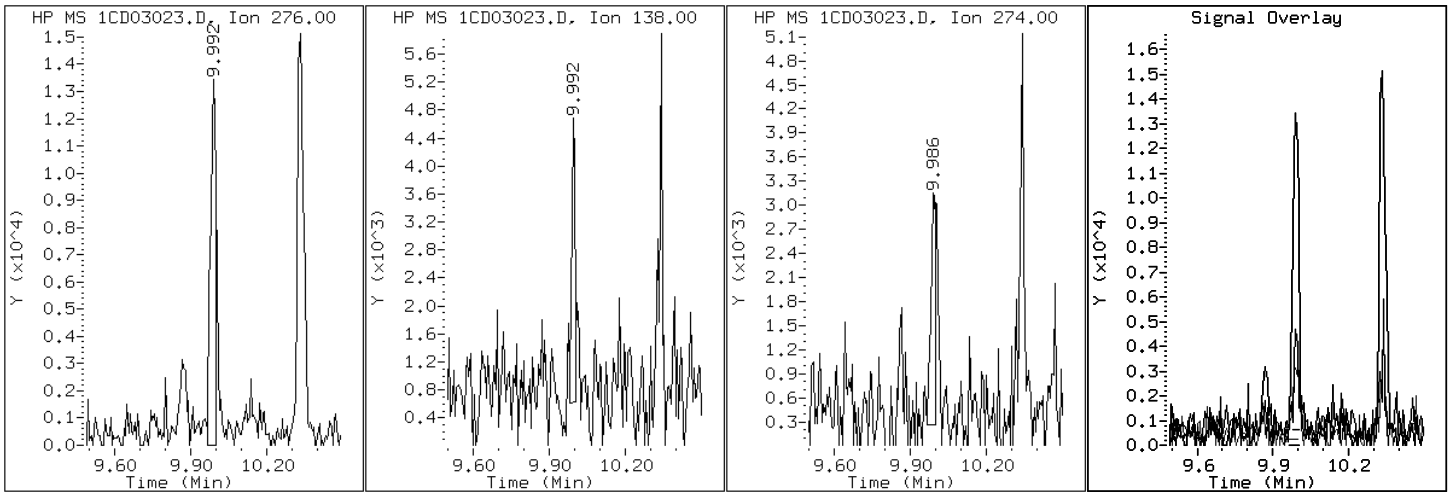
Client ID: CV0610B-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-17-c

Operator: SCC

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



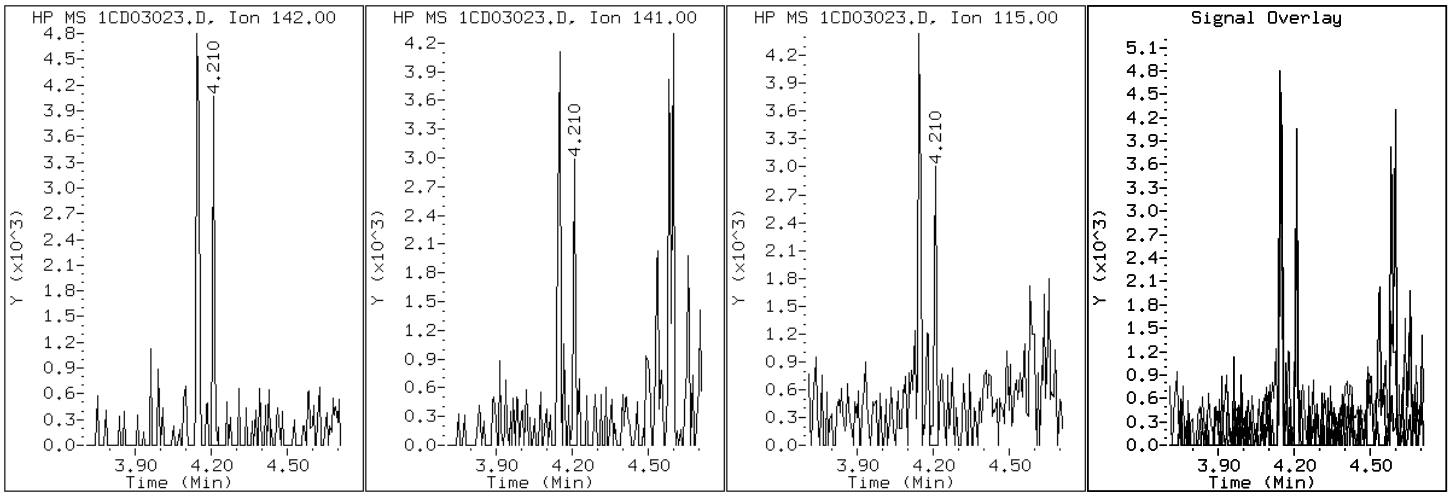
Data File: 1CD03023.D

Date: 03-APR-2013 18:00

Client ID: CV0610B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-17-c Operator: SCC

4 1-Methylnaphthalene



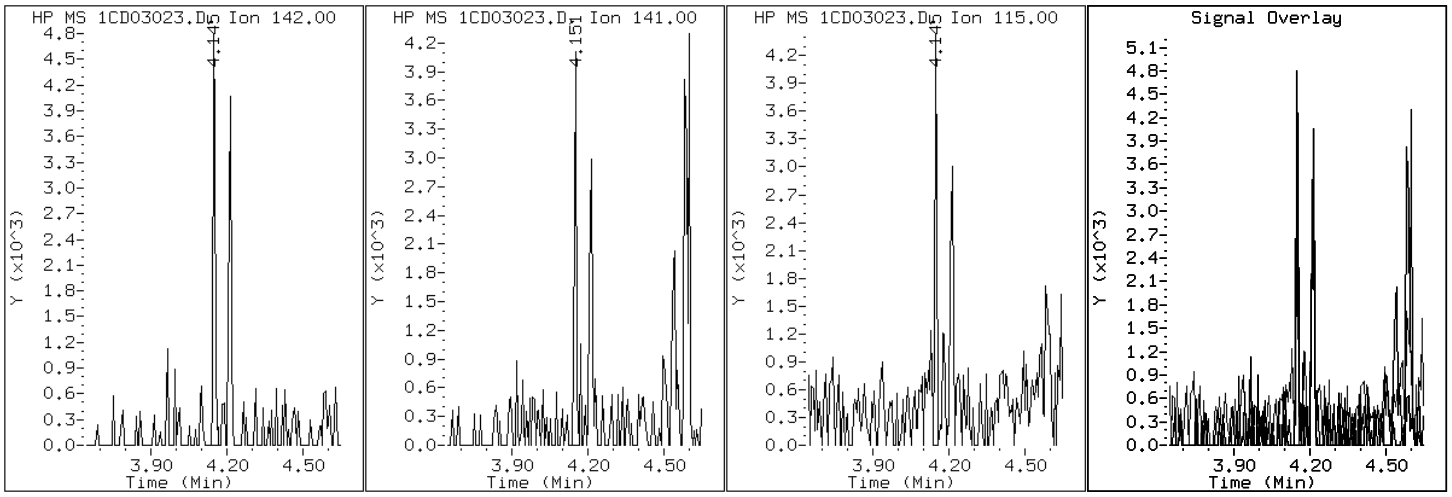
Data File: 1CD03023.D

Date: 03-APR-2013 18:00

Client ID: CV0610B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-17-c Operator: SCC

3 2-Methylnaphthalene



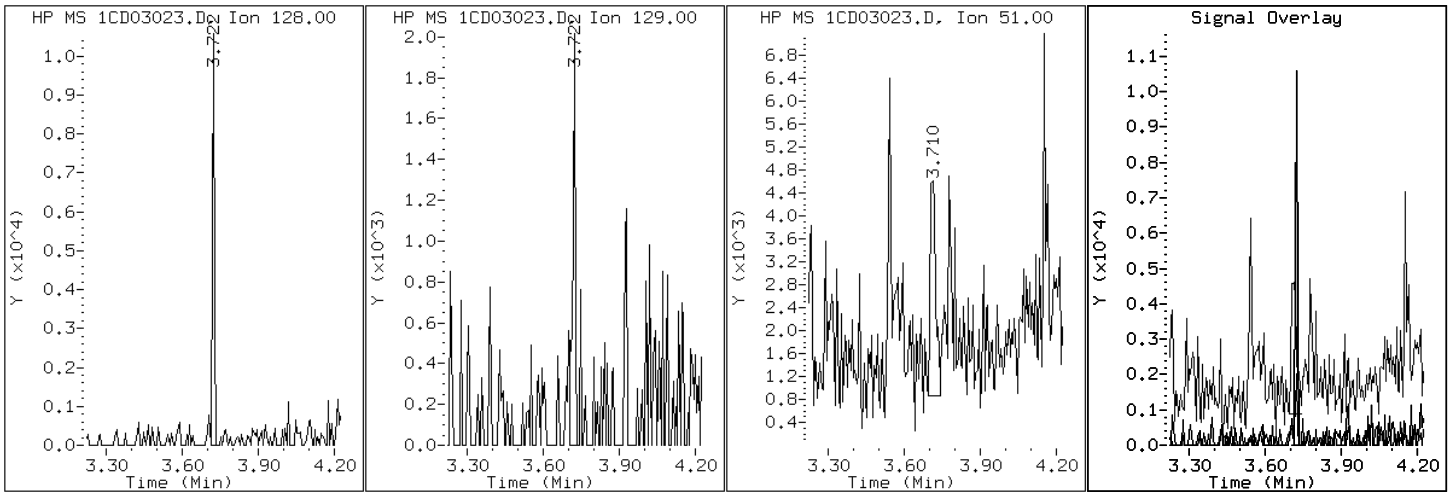
Data File: 1CD03023.D

Date: 03-APR-2013 18:00

Client ID: CV0610B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-17-c Operator: SCC

2 Naphthalene



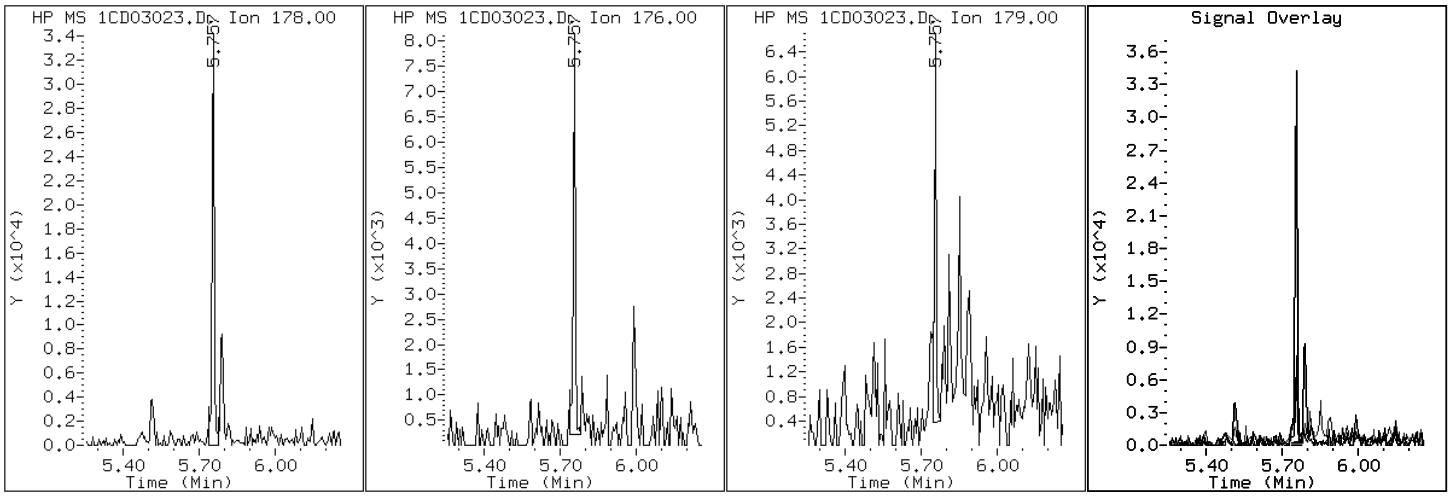
Data File: 1CD03023.D

Date: 03-APR-2013 18:00

Client ID: CV0610B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-17-c Operator: SCC

11 Phenanthrene



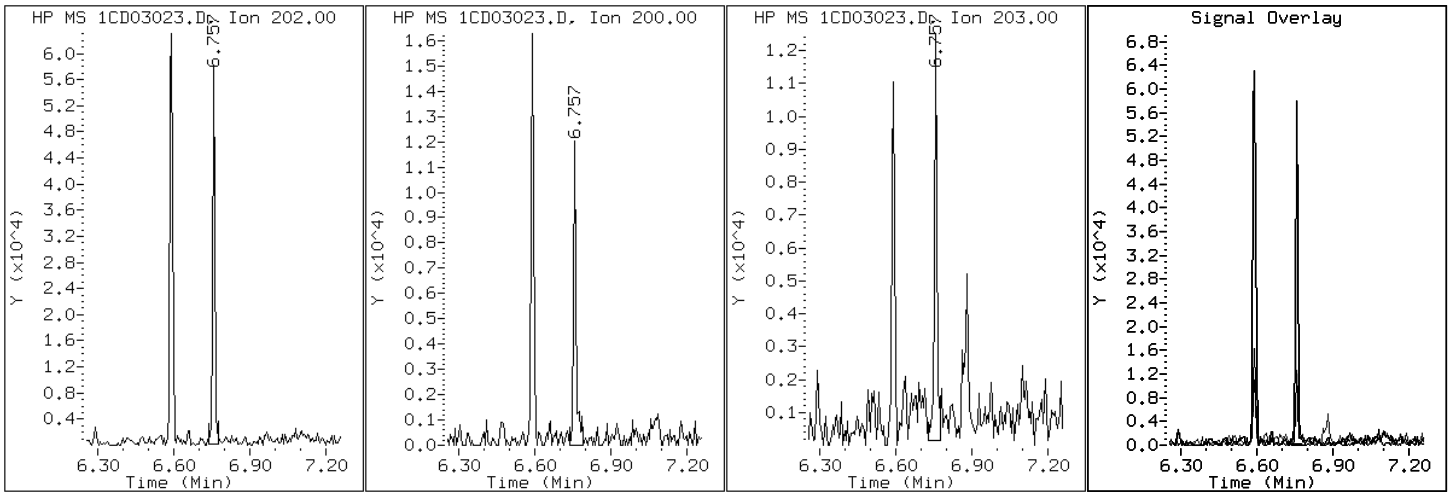
Data File: 1CD03023.D

Date: 03-APR-2013 18:00

Client ID: CV0610B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-17-c Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD03023.D
Inj. Date and Time: 03-APR-2013 18:00
Instrument ID: BSMC5973.i
Client ID: CV0610B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/05/2013

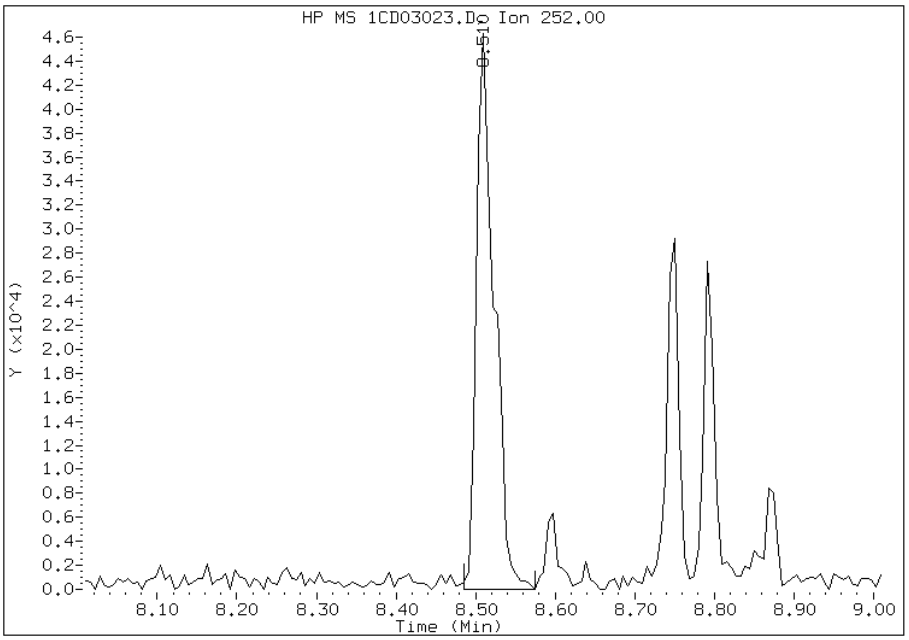
Processing Integration Results

RT: 8.51

Response: 71048

Amount: 3

Conc: 1016



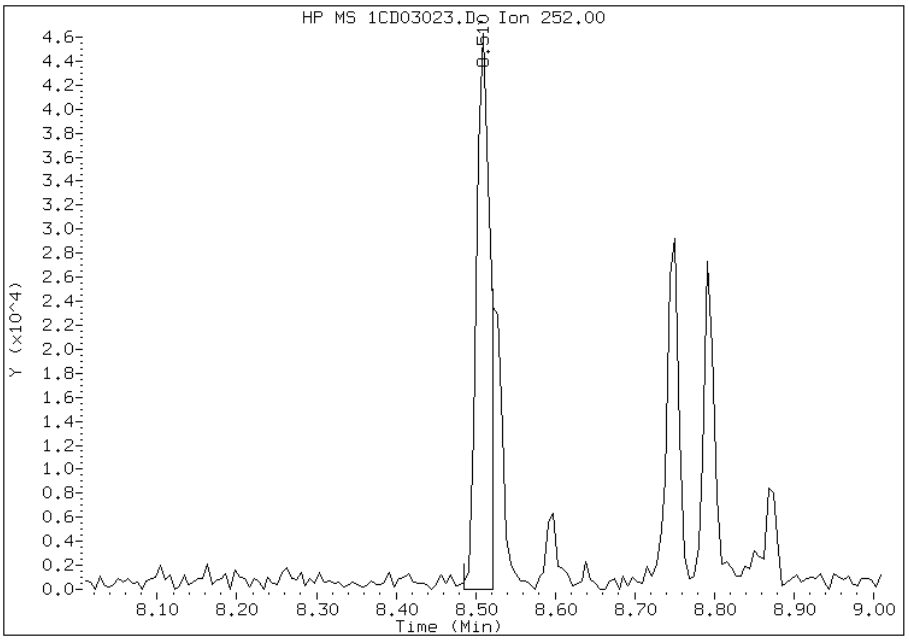
Manual Integration Results

RT: 8.51

Response: 54901

Amount: 2

Conc: 785



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 09:50
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD03023.D
Inj. Date and Time: 03-APR-2013 18:00
Instrument ID: BSMC5973.i
Client ID: CV0610B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/05/2013

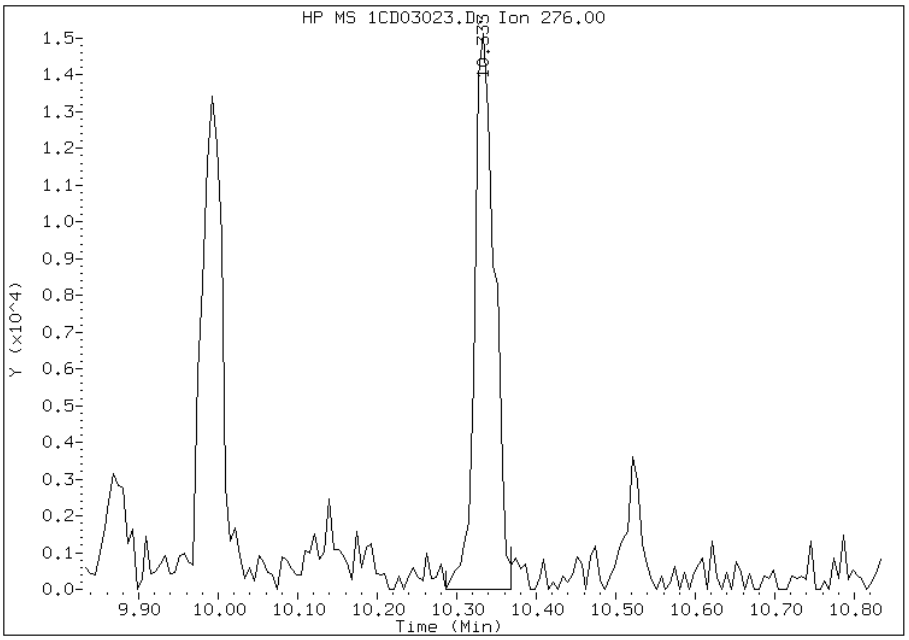
Processing Integration Results

RT: 10.33

Response: 26234

Amount: 1

Conc: 411



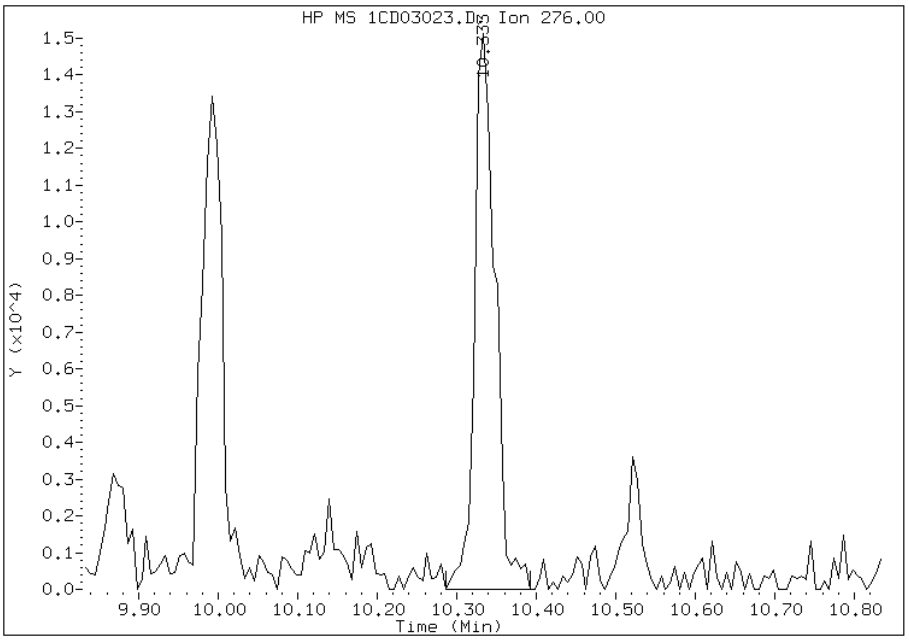
Manual Integration Results

RT: 10.33

Response: 26975

Amount: 1

Conc: 422



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 09:51
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD03023.D
Inj. Date and Time: 03-APR-2013 18:00
Instrument ID: BSMC5973.i
Client ID: CV0610B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/05/2013

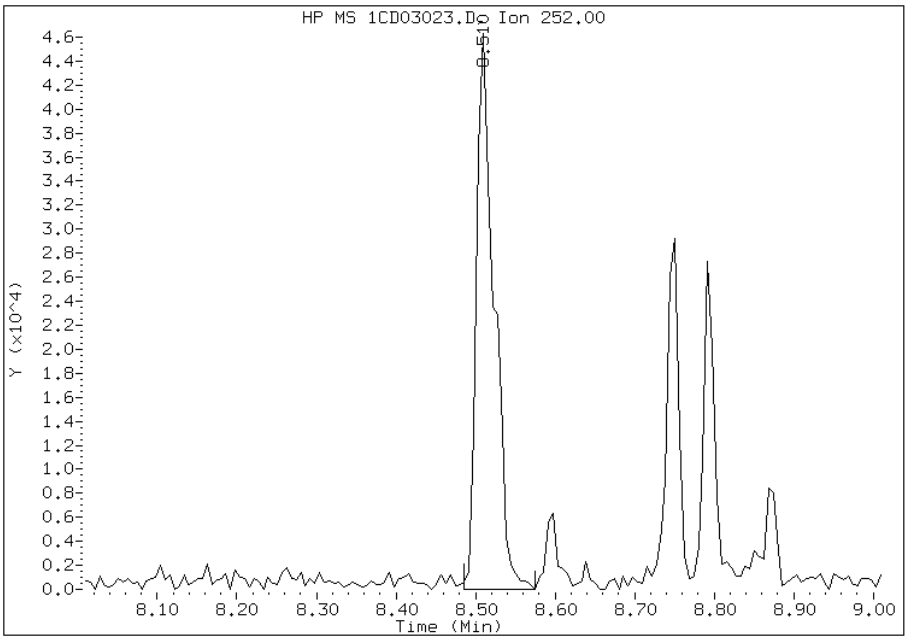
Processing Integration Results

RT: 8.51

Response: 71048

Amount: 3

Conc: 1050



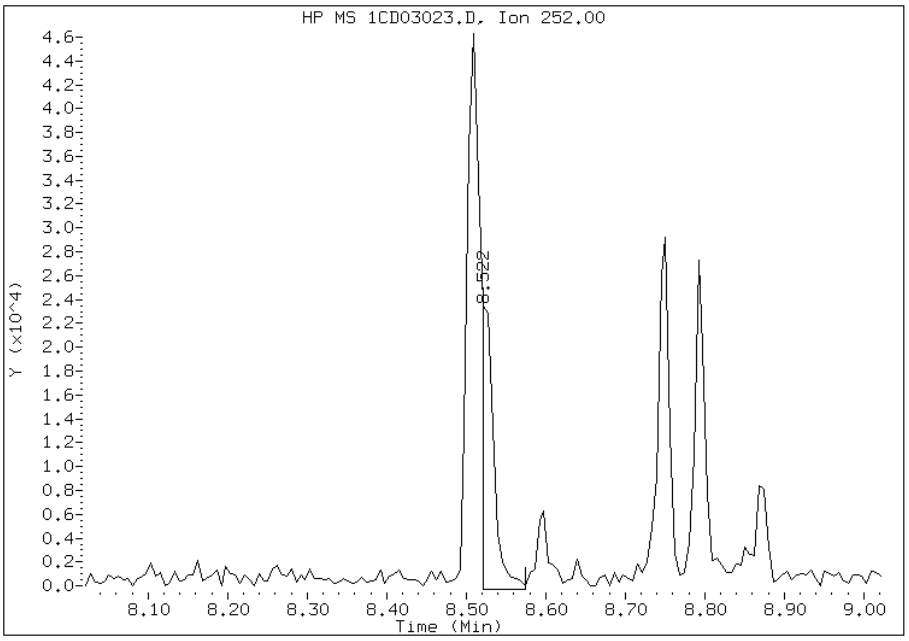
Manual Integration Results

RT: 8.52

Response: 25469

Amount: 1

Conc: 376



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 09:50
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD03023.D
Inj. Date and Time: 03-APR-2013 18:00
Instrument ID: BSMC5973.i
Client ID: CV0610B-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/05/2013

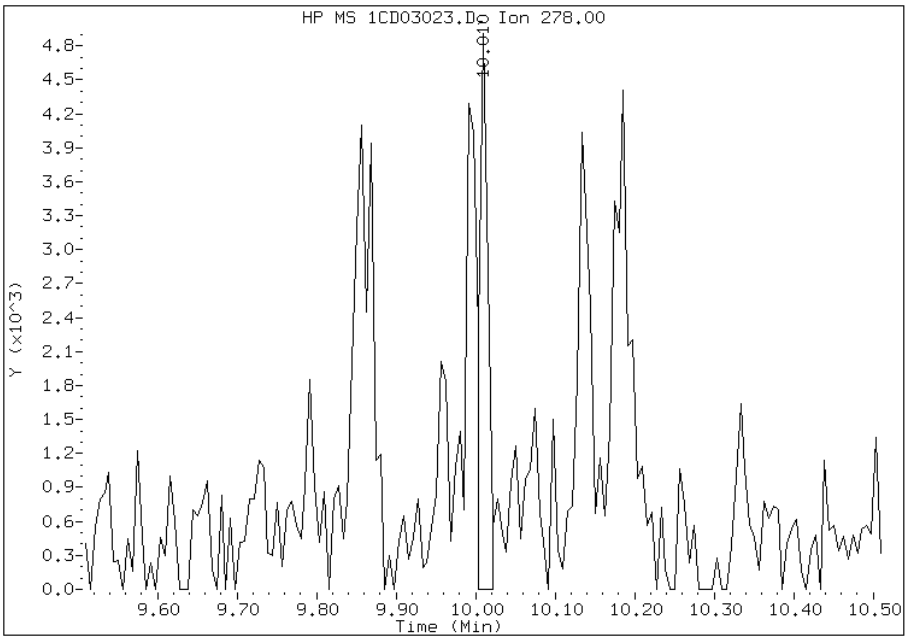
Processing Integration Results

RT: 10.01

Response: 3722

Amount: 0

Conc: 64



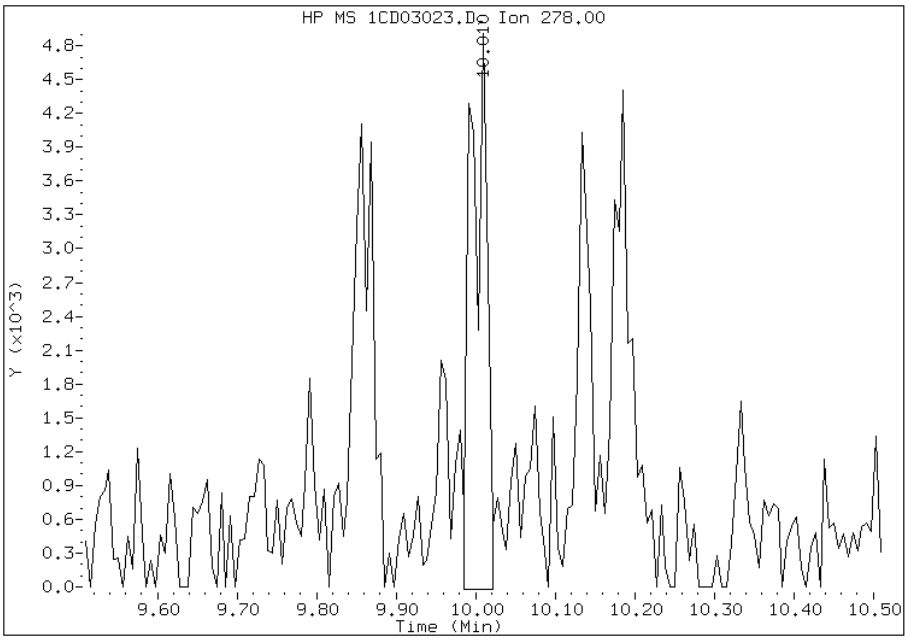
Manual Integration Results

RT: 10.01

Response: 6958

Amount: 0

Conc: 120



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 09:51
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD03023.D
Inj. Date and Time: 03-APR-2013 18:00
Instrument ID: BSMC5973.i
Client ID: CV0610B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

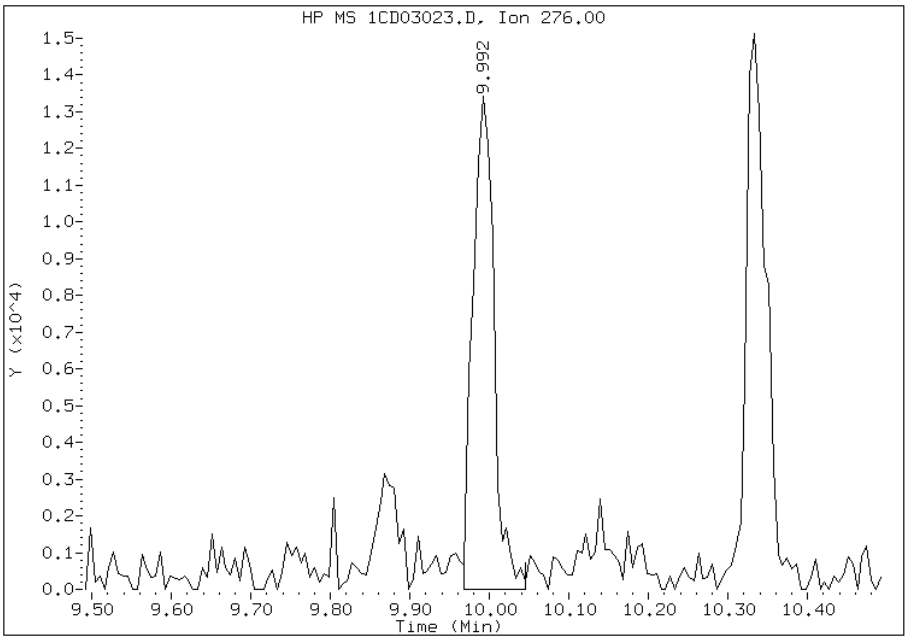
Processing Integration Results

RT: 9.99

Response: 24506

Amount: 1

Conc: 392



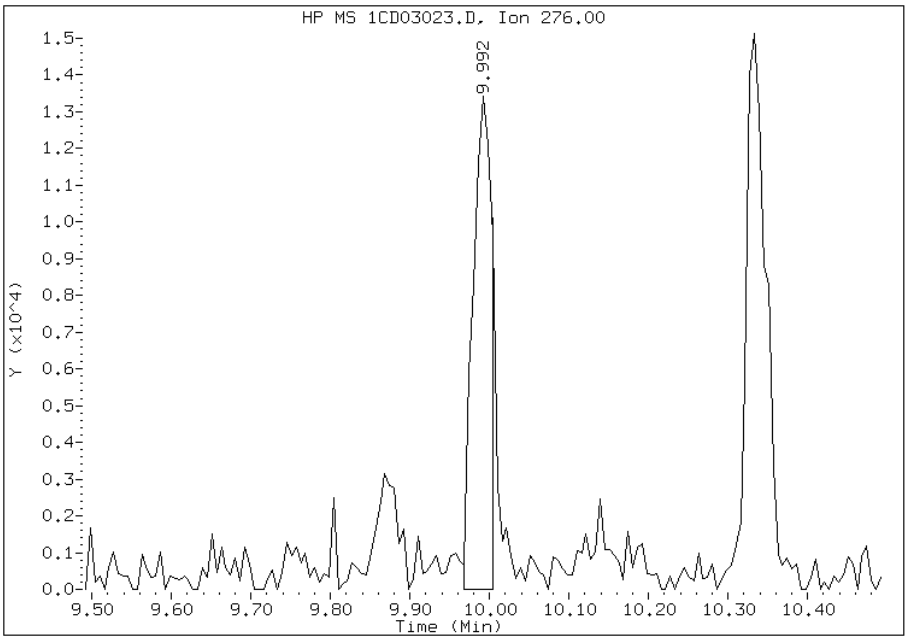
Manual Integration Results

RT: 9.99

Response: 21734

Amount: 1

Conc: 347



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 09:51
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-1

SDG No.: 68088766-1

Client Sample ID: CV0610AB-GS | Lab Sample ID: 680-88766-18

Matrix: Solid | Lab File ID: 1CD03013.D

Analysis Method: 8270C LL | Date Collected: 03/25/2013 14:39

Extract. Method: 3546 | Date Extracted: 03/29/2013 10:19

Sample wt/vol: 15.05(g) | Date Analyzed: 04/03/2013 14:49

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

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

% Moisture: 21.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136081 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	74	J	200	25
120-12-7	Anthracene	110		43	21
56-55-3	Benzo[a]anthracene	450		41	20
50-32-8	Benzo[a]pyrene	440		53	26
205-99-2	Benzo[b]fluoranthene	750		62	31
191-24-2	Benzo[g,h,i]perylene	370		100	22
207-08-9	Benzo[k]fluoranthene	310		41	18
218-01-9	Chrysene	550		46	23
53-70-3	Dibenz(a,h)anthracene	130		100	21
206-44-0	Fluoranthene	730		100	20
86-73-7	Fluorene	43	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	280		100	36
90-12-0	1-Methylnaphthalene	72	J	200	22
91-57-6	2-Methylnaphthalene	96	J	200	36
91-20-3	Naphthalene	150	J	200	22
85-01-8	Phenanthrene	380		41	20
129-00-0	Pyrene	650		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	88		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03013.D
Lab Smp Id: 680-88766-A-18-A Client Smp ID: CV0610AB-GS
Inj Date : 03-APR-2013 14:49
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88766-a-18-a
Misc Info : 680-88766-A-18-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m
Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 13
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	15.050	Weight Extracted
M	21.447	% 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	3.710	3.704	(1.000)	709889	40.0000	
* 6 Acenaphthene-d10	164	4.792	4.792	(1.000)	565667	40.0000	
* 10 Phenanthrene-d10	188	5.739	5.739	(1.000)	1017413	40.0000	
$ 14 o-Terphenyl	230	5.992	5.992	(1.044)	24400	2.19467	742.5539
* 18 Chrysene-d12	240	7.680	7.680	(1.000)	1170114	40.0000	
* 23 Perylene-d12	264	8.851	8.851	(1.000)	1132670	40.0000	
2 Naphthalene	128	3.722	3.722	(1.003)	8063	0.44221	149.6195(Q)
3 2-Methylnaphthalene	142	4.145	4.145	(1.117)	3520	0.28360	95.9551
4 1-Methylnaphthalene	142	4.210	4.210	(1.135)	2362	0.21149	71.5578(Q)
5 Acenaphthylene	152	4.710	4.704	(0.983)	5093	0.21754	73.6039
9 Fluorene	166	5.133	5.133	(1.071)	2448	0.12664	42.8477(Q)
11 Phenanthrene	178	5.757	5.757	(1.003)	33350	1.12548	380.7992
12 Anthracene	178	5.786	5.792	(1.008)	9522	0.31700	107.2546
13 Carbazole	167	5.898	5.898	(1.028)	7511	0.29186	98.7493

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.592	6.592	(1.149)	70601	2.15743	729.9528
16 Pyrene	202	6.757	6.757	(0.880)	62511	1.92857	652.5211
17 Benzo(a)anthracene	228	7.668	7.668	(0.998)	40838	1.34015	453.4307
19 Chrysene	228	7.698	7.698	(1.002)	54096	1.62240	548.9298
20 Benzo(b)fluoranthene	252	8.510	8.509	(0.961)	70939	2.21535	749.5507(M)
21 Benzo(k)fluoranthene	252	8.521	8.533	(0.963)	28303	0.91387	309.2011(M)
22 Benzo(a)pyrene	252	8.798	8.798	(0.994)	39558	1.31215	443.9567
24 Indeno(1,2,3-cd)pyrene	276	9.998	9.992	(1.130)	23674	0.82677	279.7313(M)
25 Dibenzo(a,h)anthracene	278	9.998	10.009	(1.130)	9836	0.37185	125.8133(M)
26 Benzo(g,h,i)perylene	276	10.333	10.339	(1.167)	31751	1.08644	367.5894

QC Flag Legend

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

Data File: 1CD03013.D

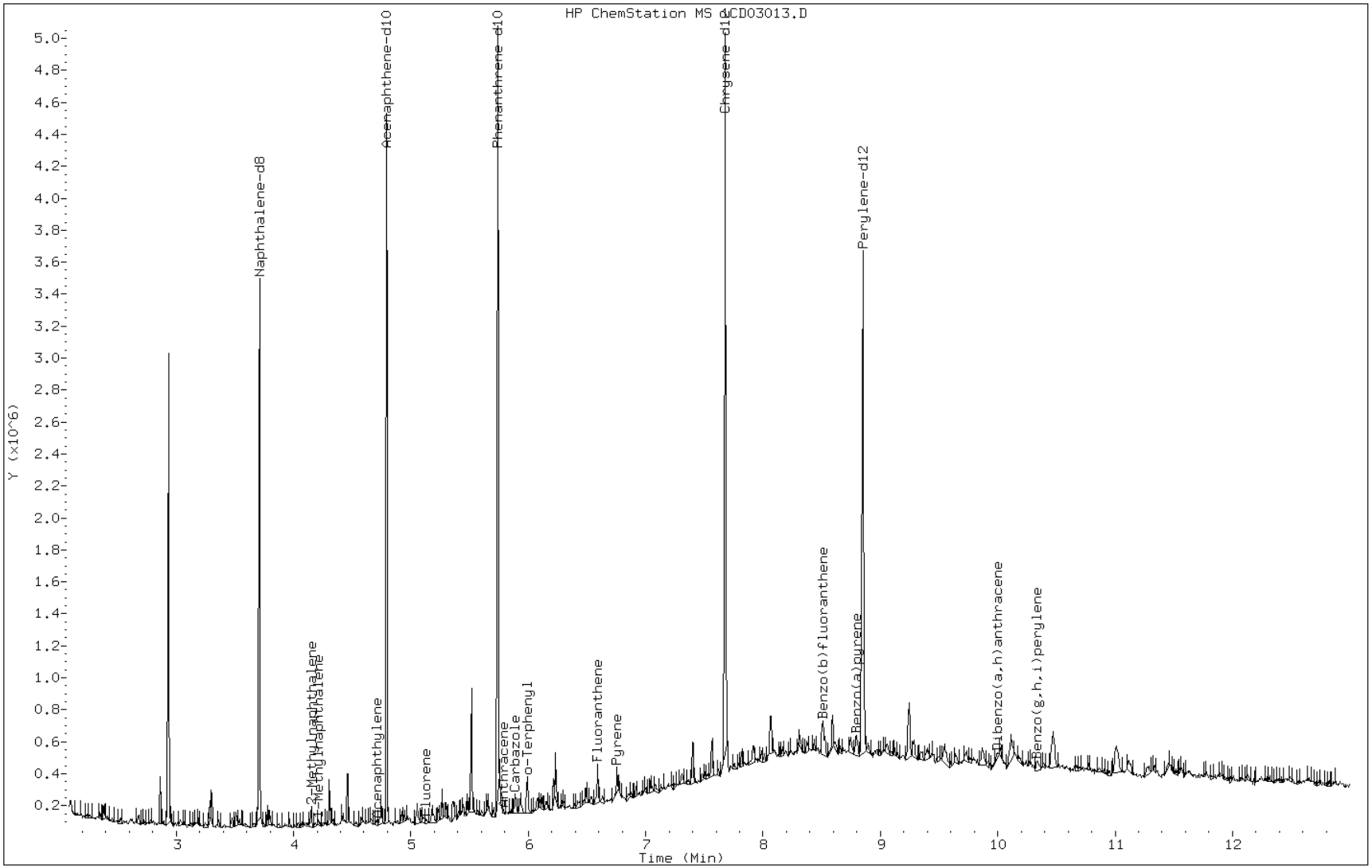
Date: 03-APR-2013 14:49

Client ID: CV0610AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-18-a

Operator: SCC



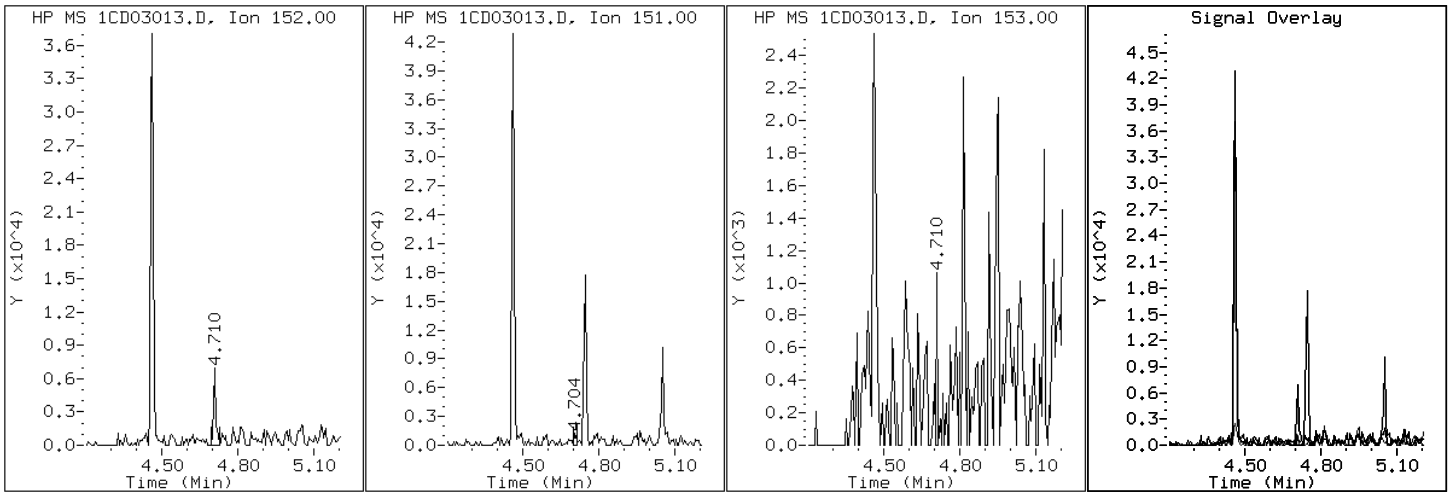
Data File: 1CD03013.D

Date: 03-APR-2013 14:49

Client ID: CV0610AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-18-a Operator: SCC

5 Acenaphthylene



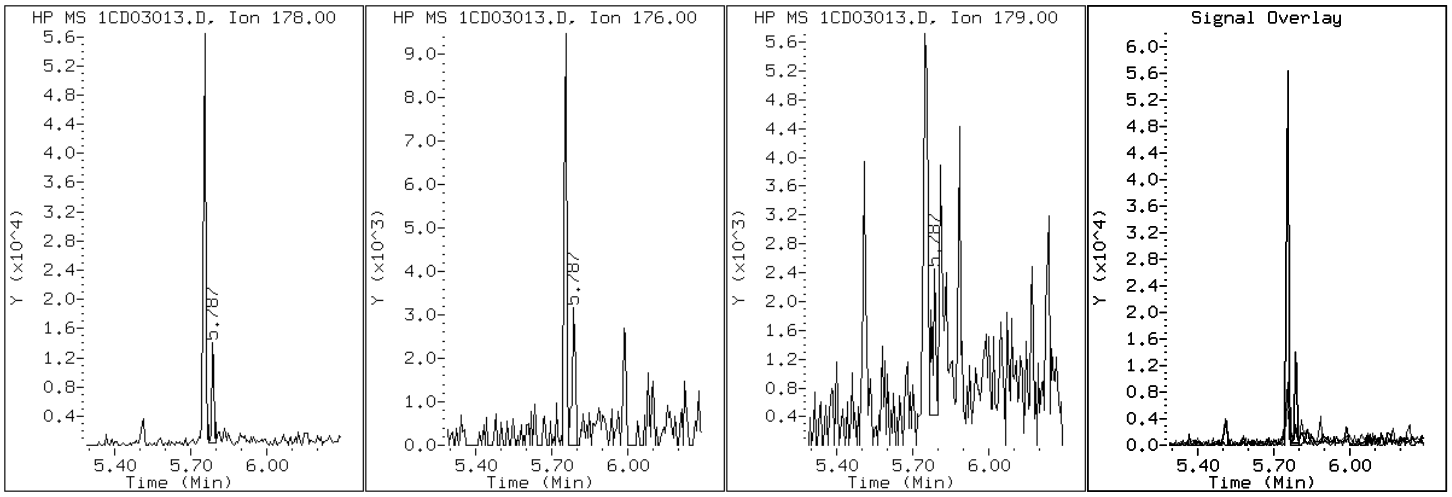
Data File: 1CD03013.D

Date: 03-APR-2013 14:49

Client ID: CV0610AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-18-a Operator: SCC

12 Anthracene



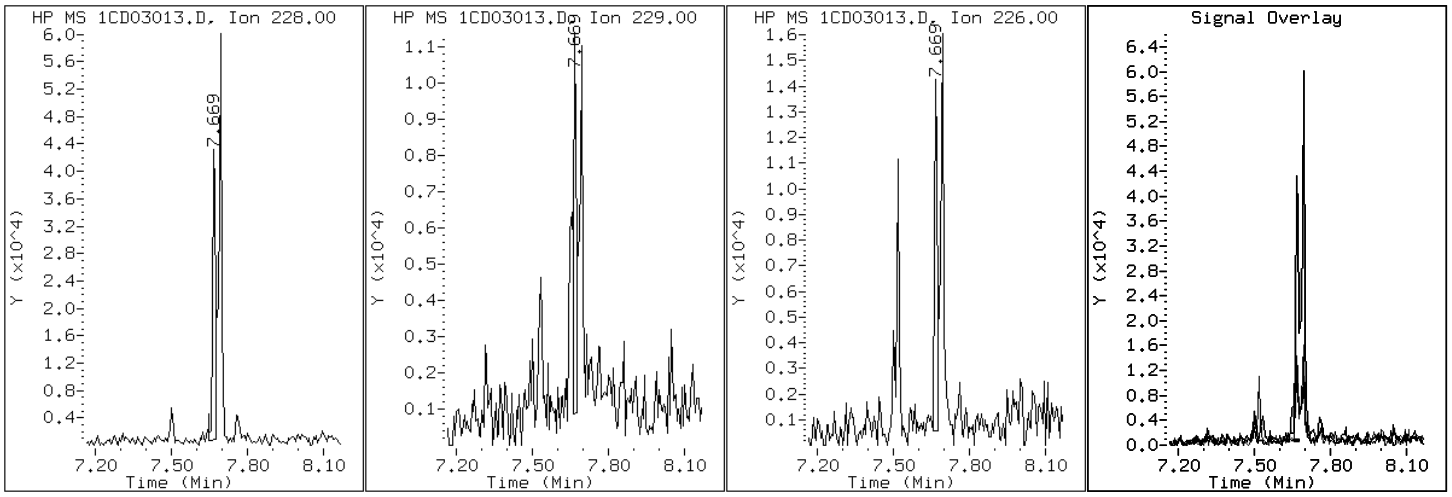
Data File: 1CD03013.D

Date: 03-APR-2013 14:49

Client ID: CV0610AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-18-a Operator: SCC

17 Benzo(a)anthracene



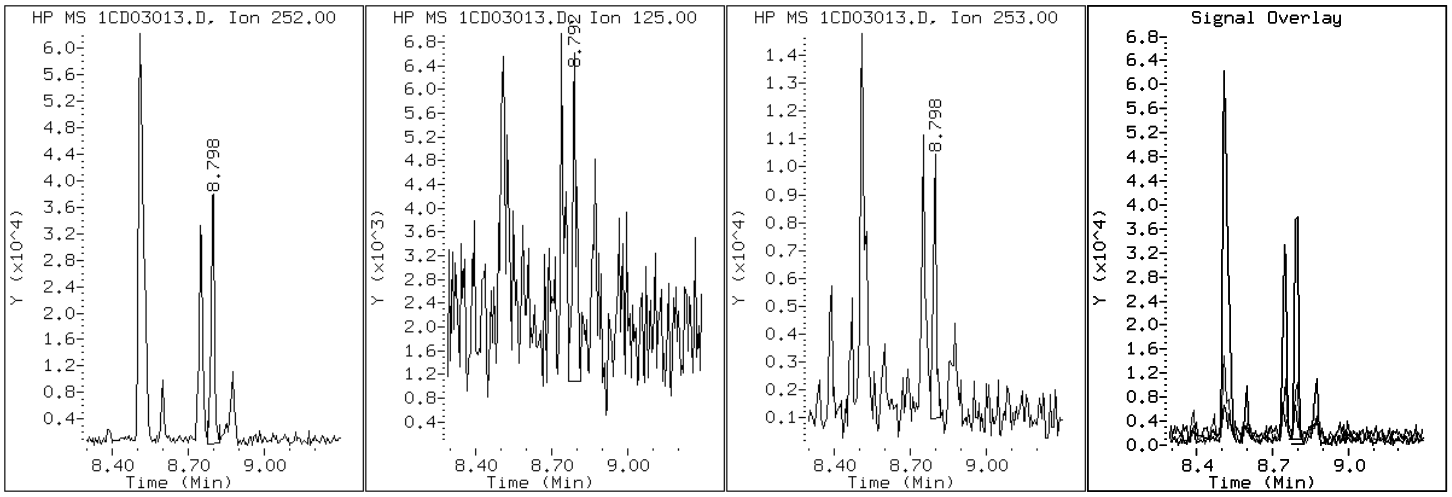
Data File: 1CD03013.D

Date: 03-APR-2013 14:49

Client ID: CV0610AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-18-a Operator: SCC

22 Benzo(a)pyrene



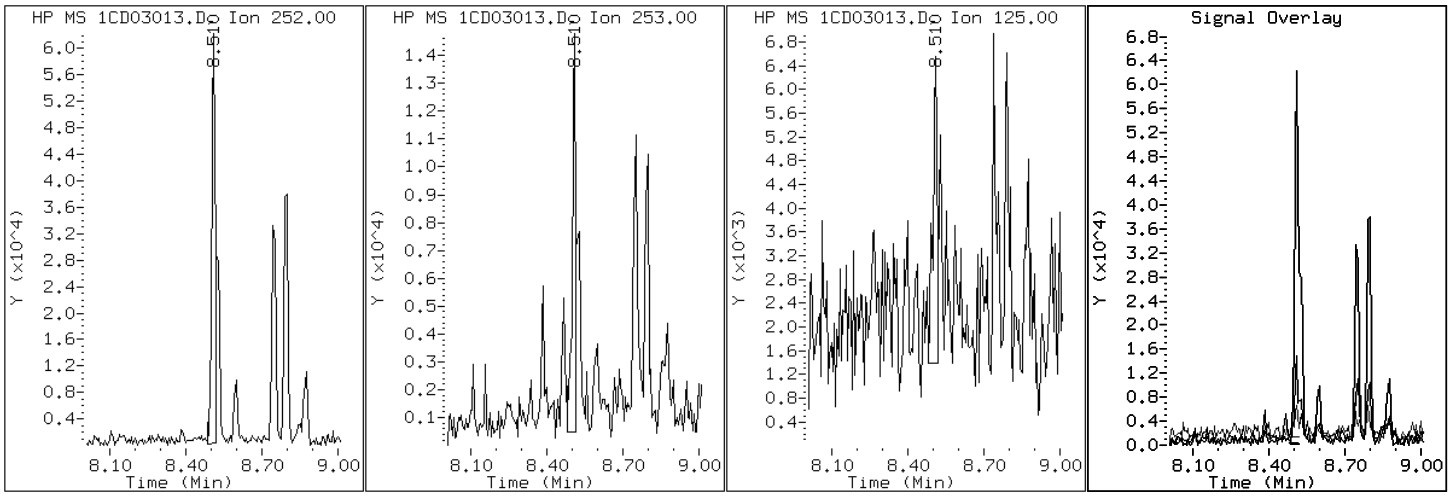
Data File: 1CD03013.D

Date: 03-APR-2013 14:49

Client ID: CV0610AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-18-a Operator: SCC

20 Benzo(b)fluoranthene



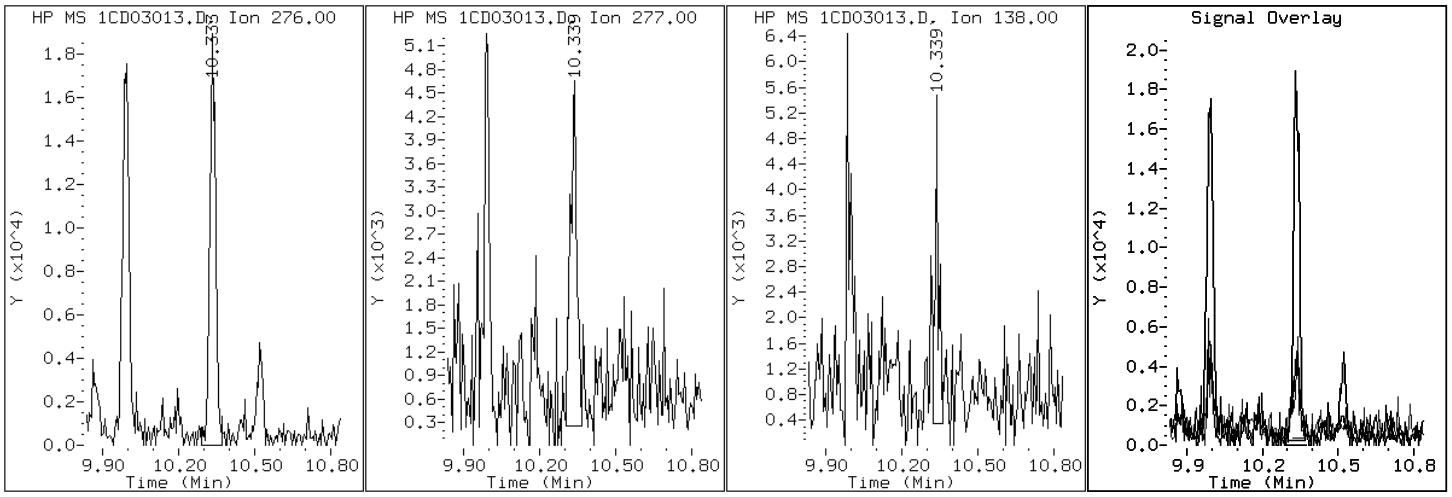
Data File: 1CD03013.D

Date: 03-APR-2013 14:49

Client ID: CV0610AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-18-a Operator: SCC

26 Benzo(g,h,i)perylene



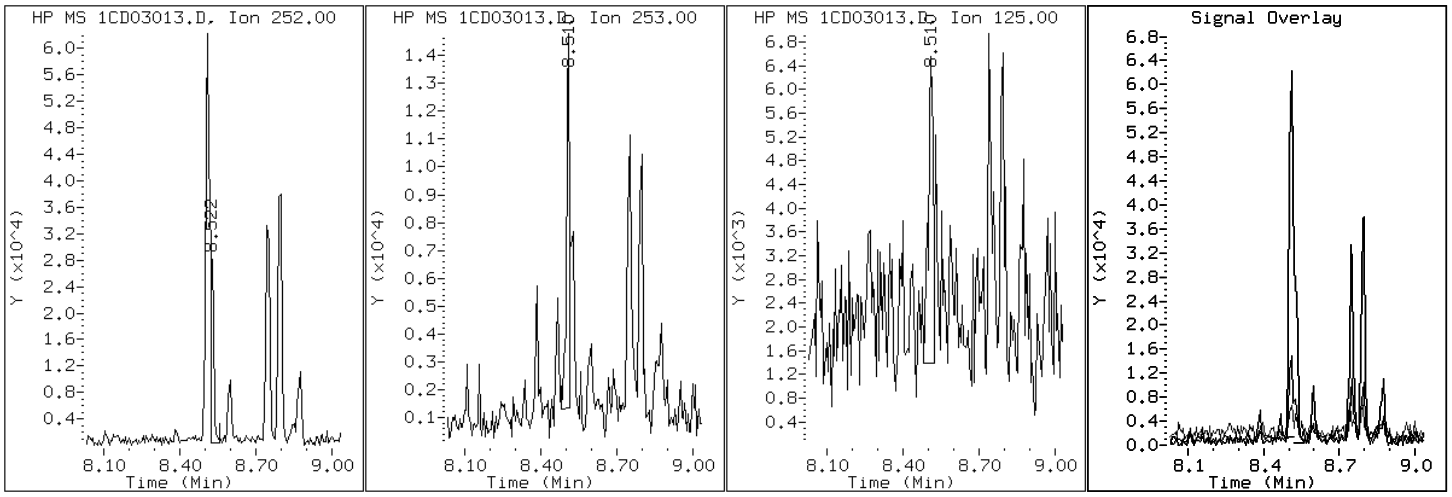
Data File: 1CD03013.D

Date: 03-APR-2013 14:49

Client ID: CV0610AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-18-a Operator: SCC

21 Benzo(k)fluoranthene



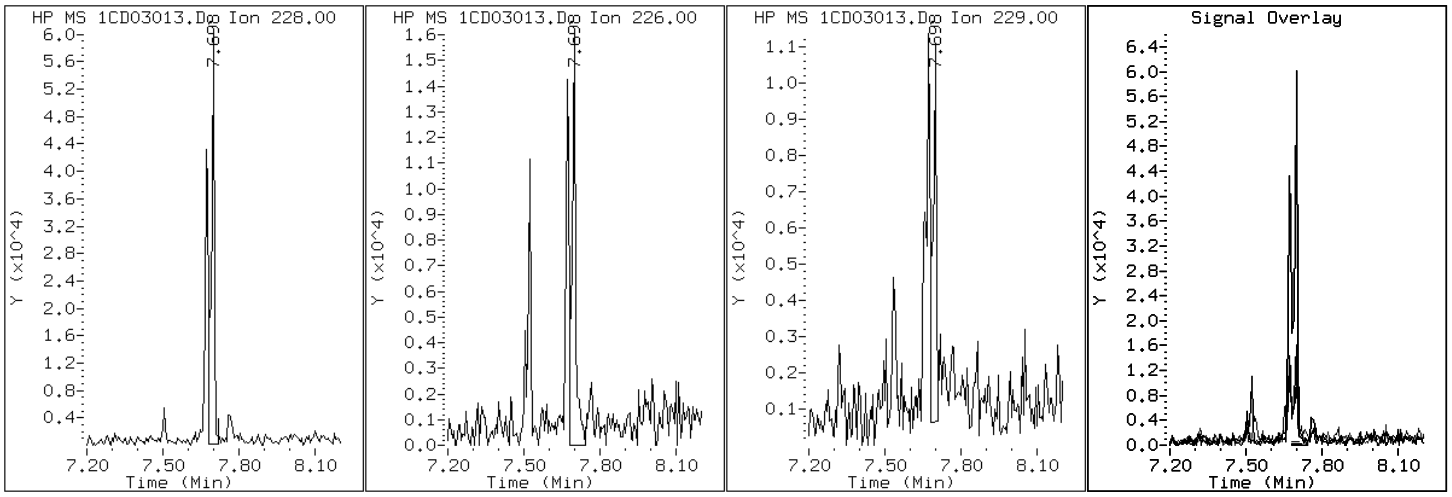
Data File: 1CD03013.D

Date: 03-APR-2013 14:49

Client ID: CV0610AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-18-a Operator: SCC

19 Chrysene



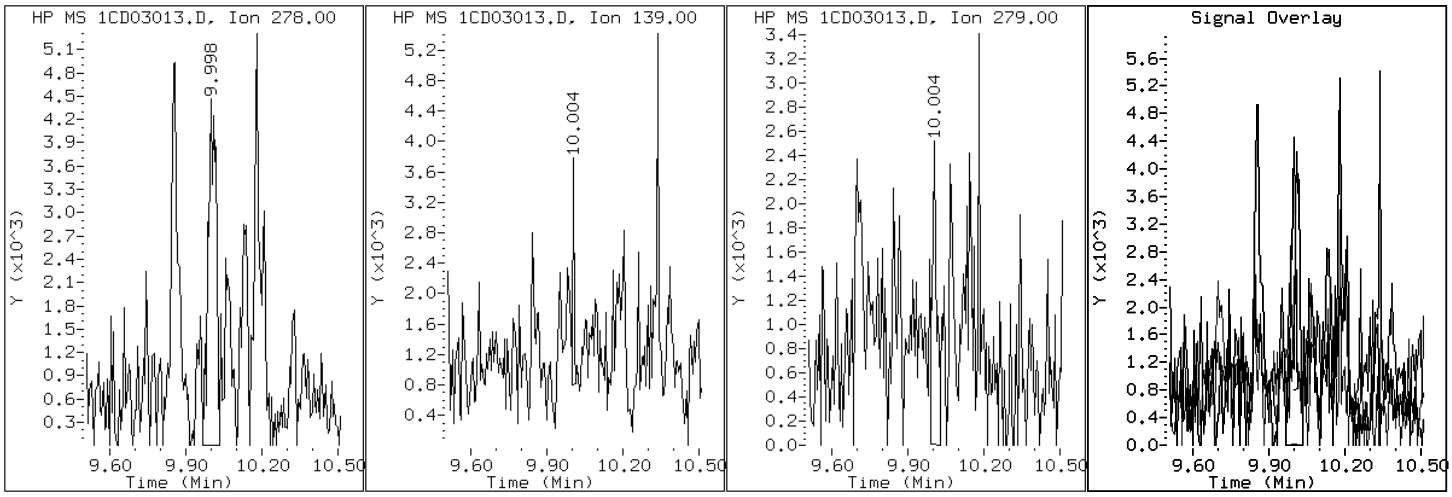
Data File: 1CD03013.D

Date: 03-APR-2013 14:49

Client ID: CV0610AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-18-a Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD03013.D

Date: 03-APR-2013 14:49

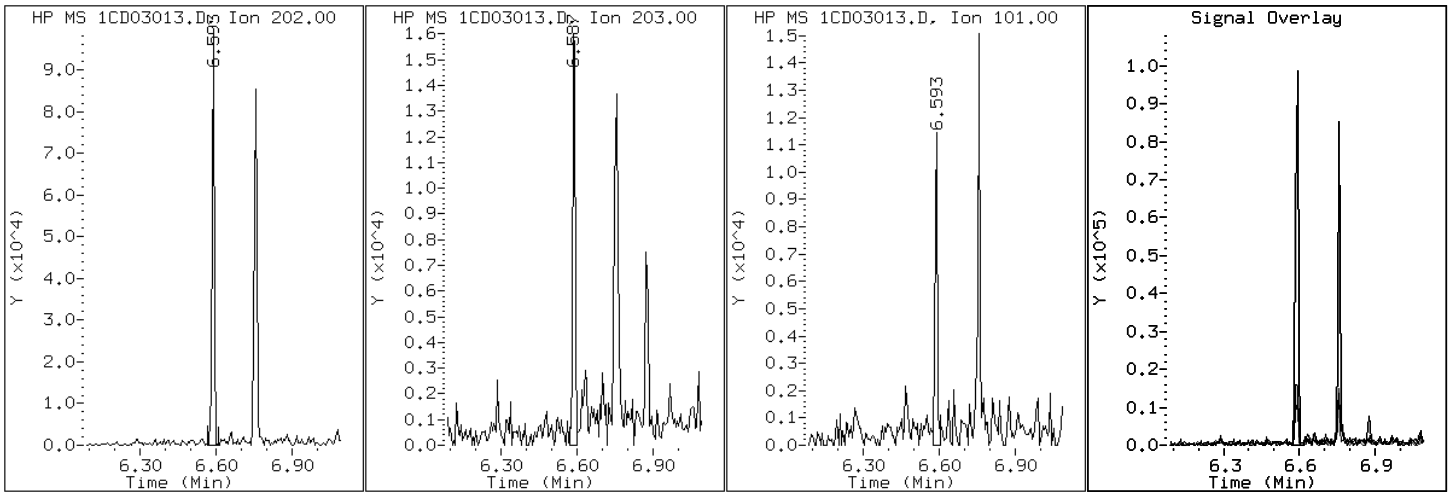
Client ID: CV0610AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-18-a

Operator: SCC

15 Fluoranthene



Data File: 1CD03013.D

Date: 03-APR-2013 14:49

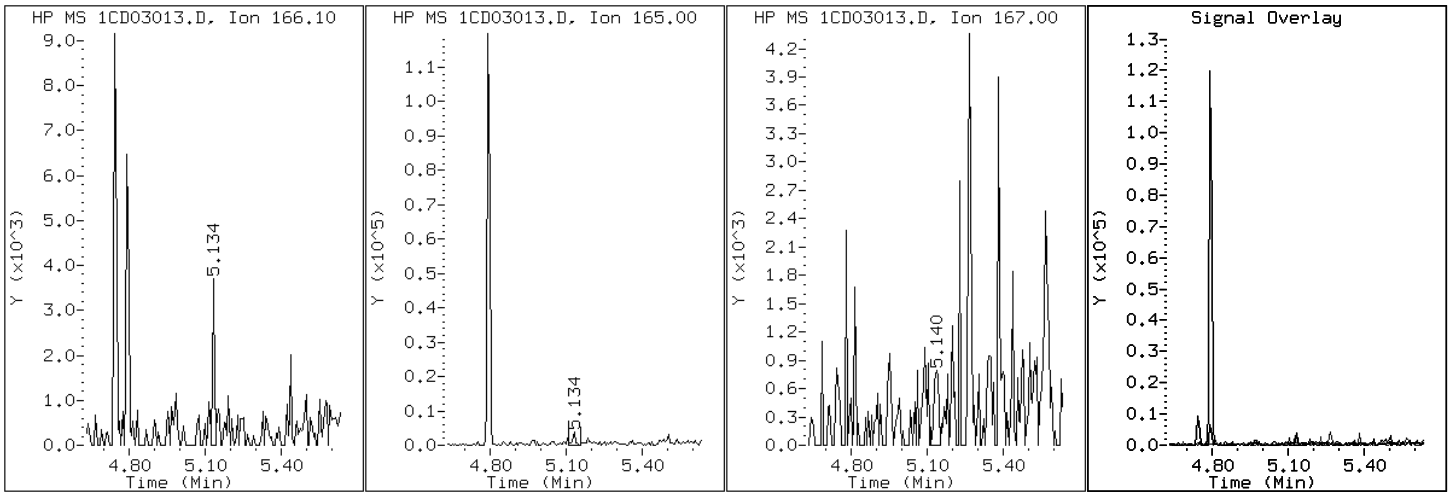
Client ID: CV0610AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-18-a

Operator: SCC

9 Fluorene



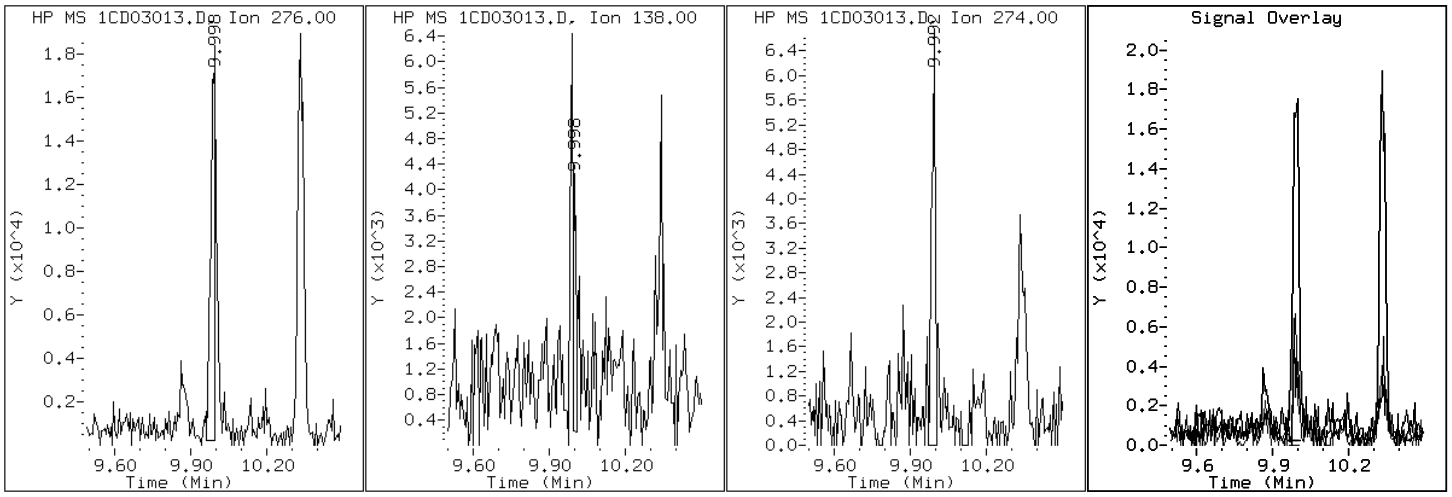
Data File: 1CD03013.D

Date: 03-APR-2013 14:49

Client ID: CV0610AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-18-a Operator: SCC

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



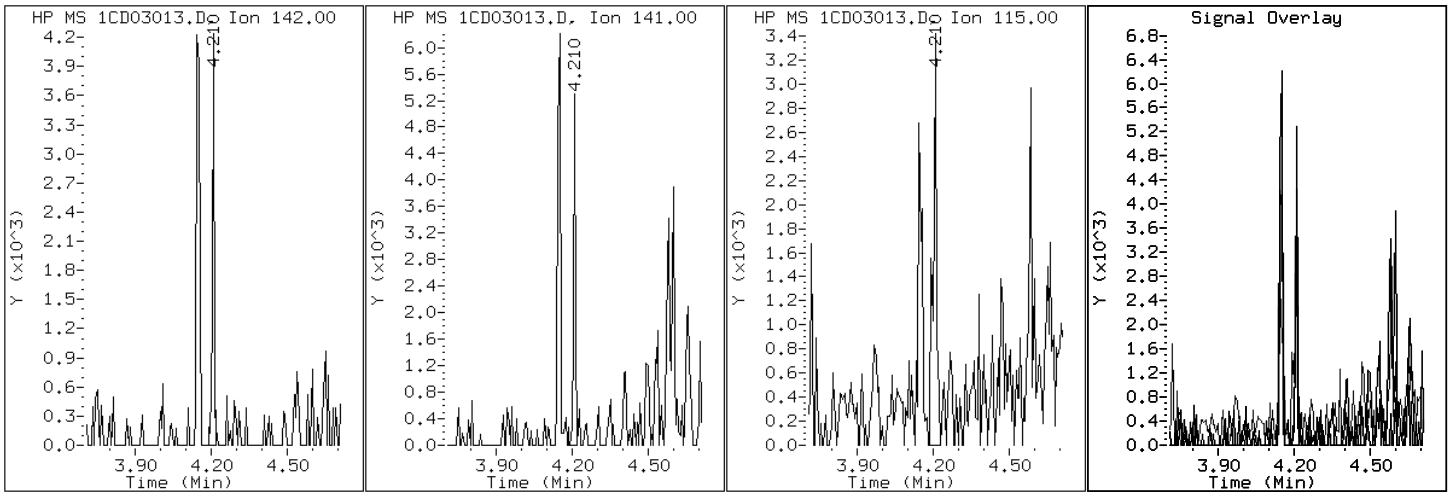
Data File: 1CD03013.D

Date: 03-APR-2013 14:49

Client ID: CV0610AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-18-a Operator: SCC

4 1-Methylnaphthalene



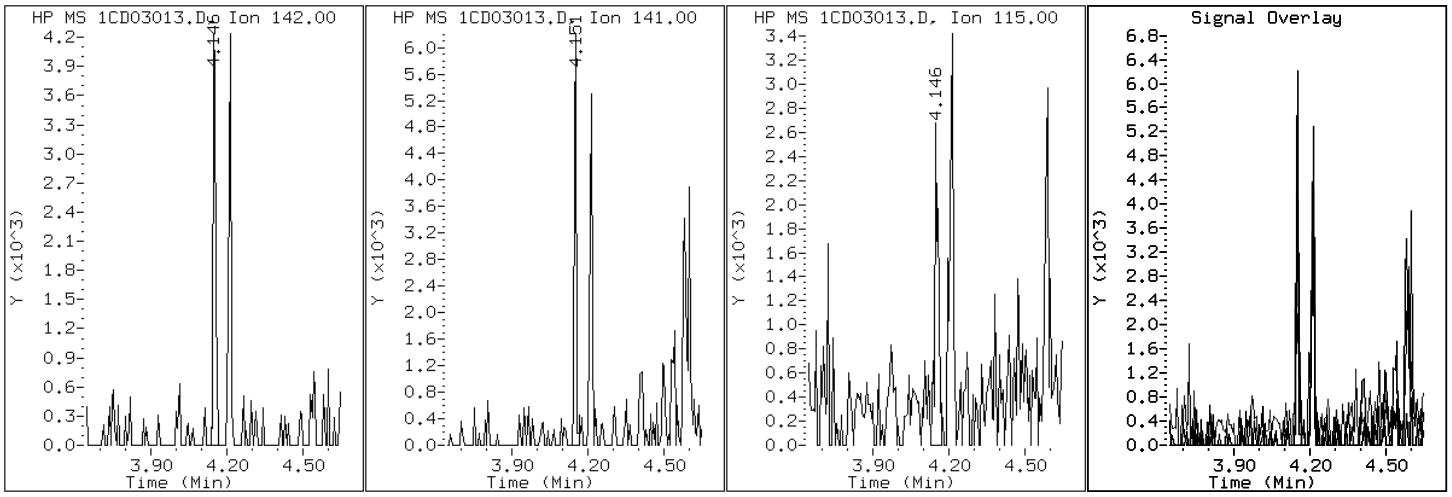
Data File: 1CD03013.D

Date: 03-APR-2013 14:49

Client ID: CV0610AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-18-a Operator: SCC

3 2-Methylnaphthalene



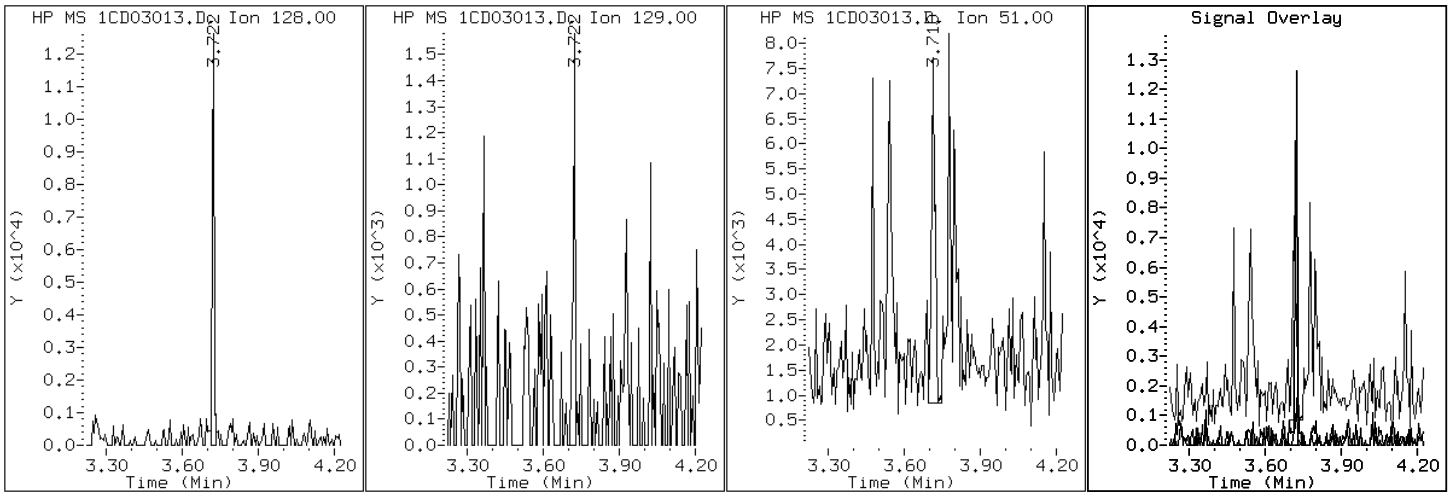
Data File: 1CD03013.D

Date: 03-APR-2013 14:49

Client ID: CV0610AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-18-a Operator: SCC

2 Naphthalene



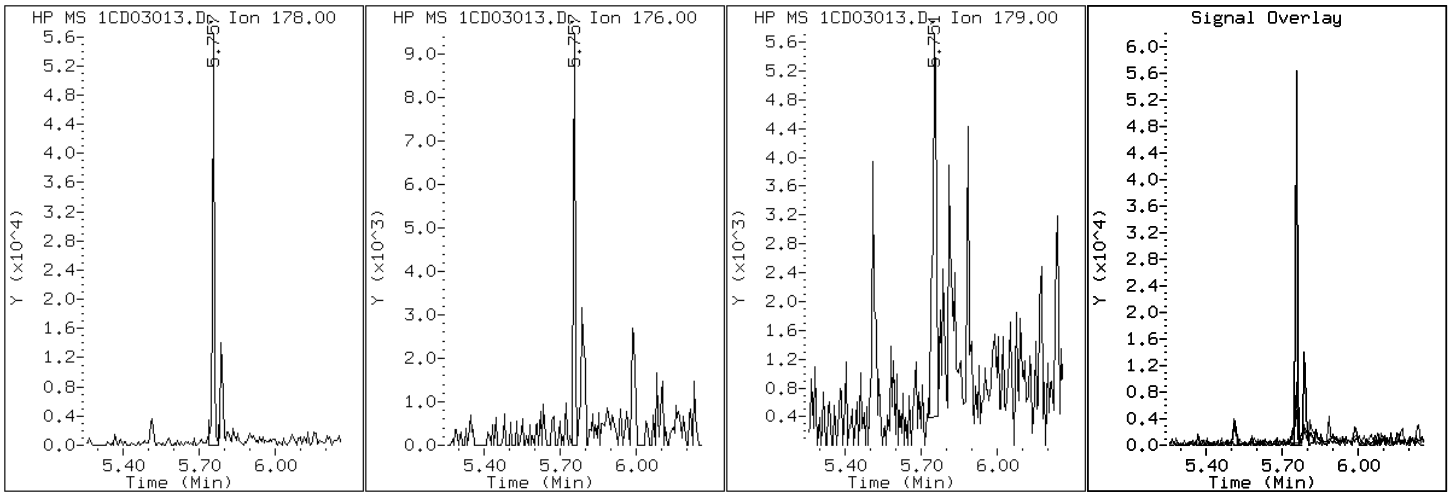
Data File: 1CD03013.D

Date: 03-APR-2013 14:49

Client ID: CV0610AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-18-a Operator: SCC

11 Phenanthrene



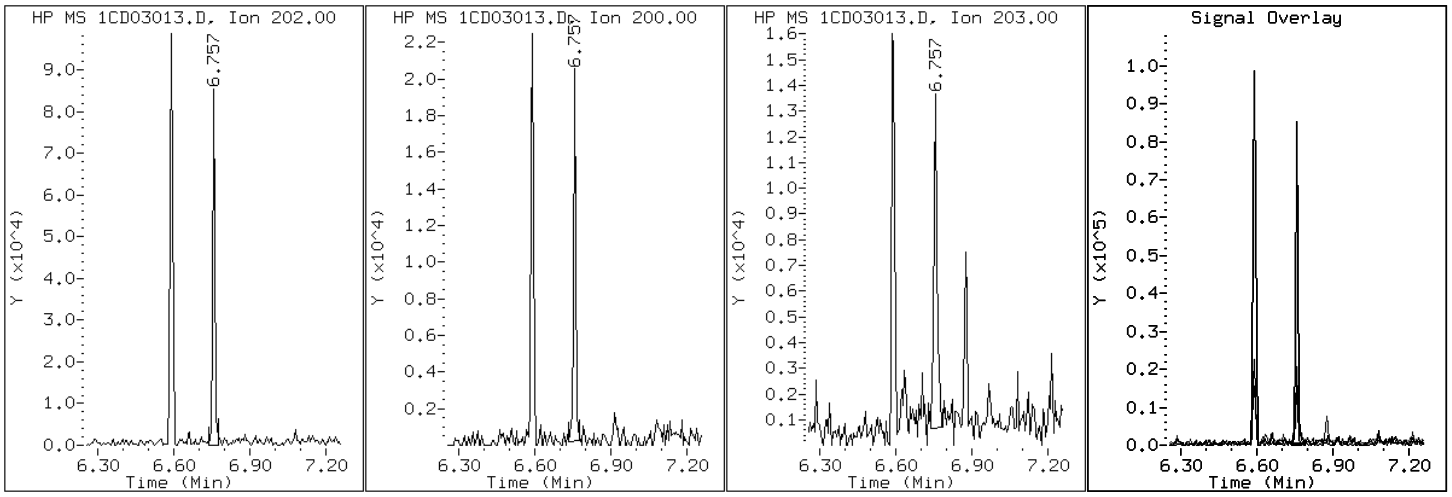
Data File: 1CD03013.D

Date: 03-APR-2013 14:49

Client ID: CV0610AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-18-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD03013.D
Inj. Date and Time: 03-APR-2013 14:49
Instrument ID: BSMC5973.i
Client ID: CV0610AB-GS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

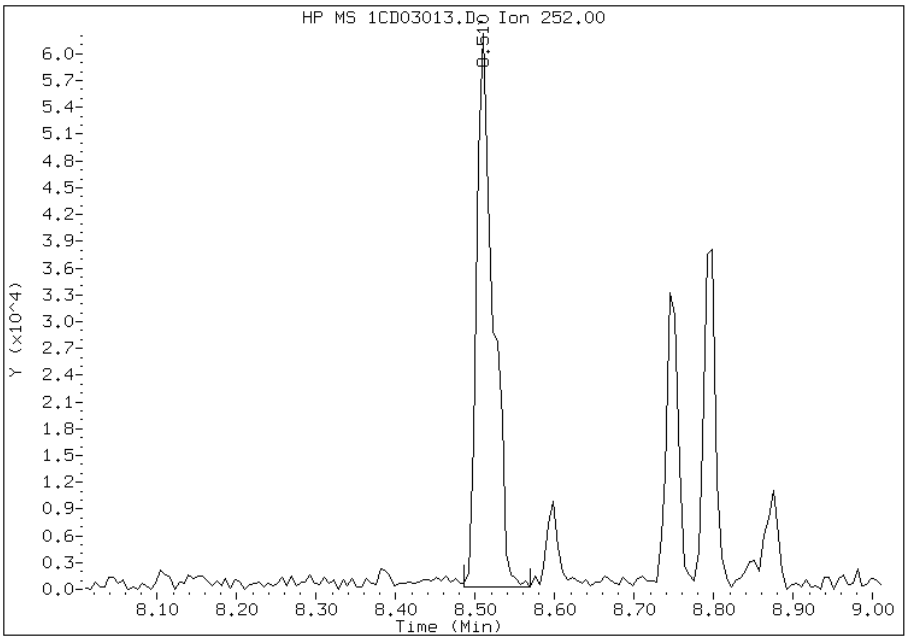
Processing Integration Results

RT: 8.51

Response: 89709

Amount: 3

Conc: 948



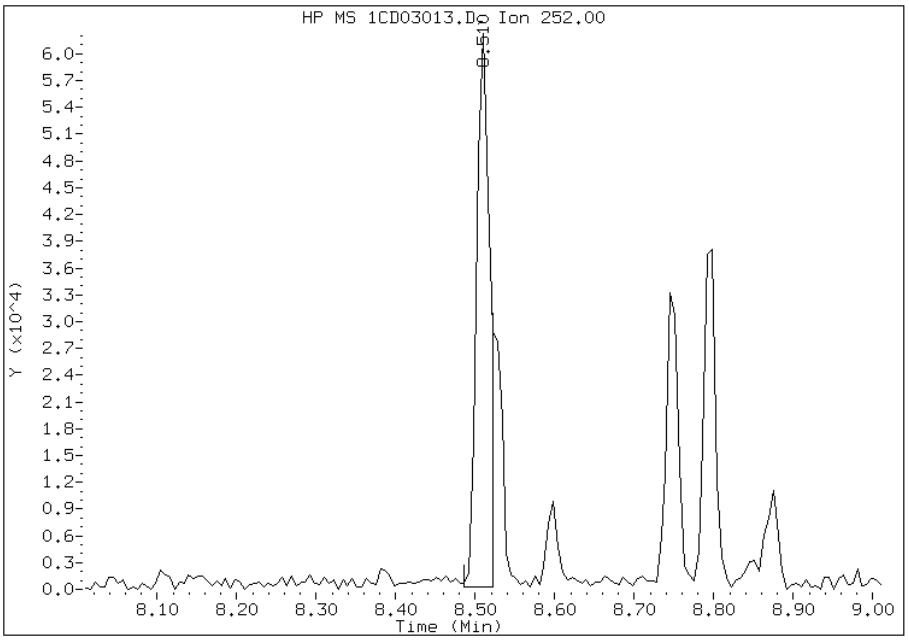
Manual Integration Results

RT: 8.51

Response: 70939

Amount: 2

Conc: 750



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:25
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD03013.D
Inj. Date and Time: 03-APR-2013 14:49
Instrument ID: BSMC5973.i
Client ID: CV0610AB-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

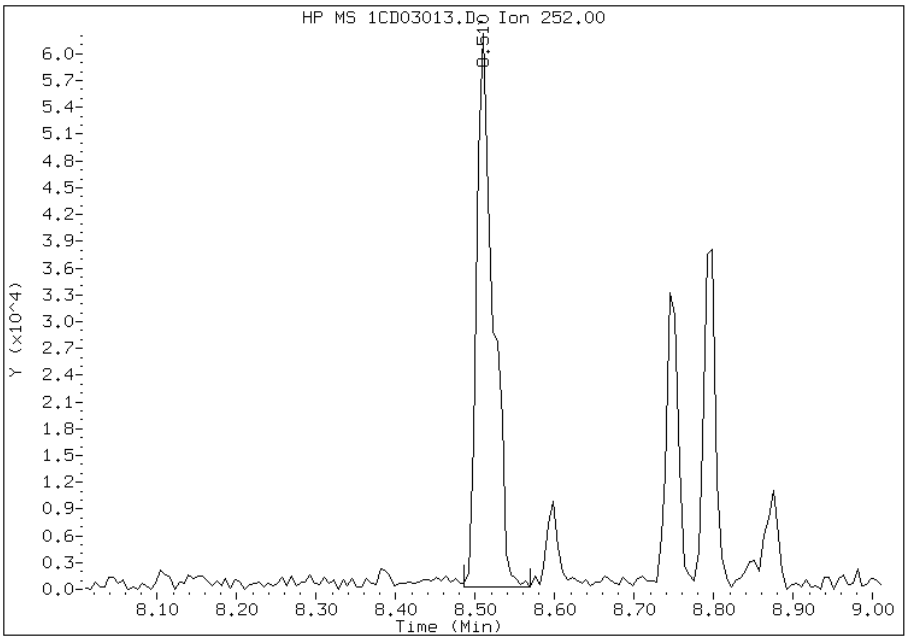
Processing Integration Results

RT: 8.51

Response: 89720

Amount: 3

Conc: 980



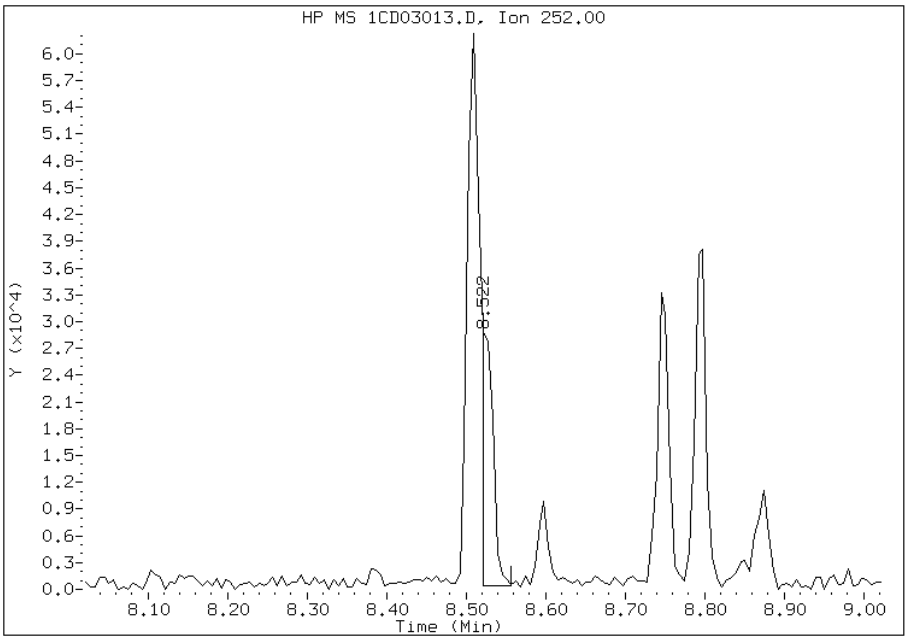
Manual Integration Results

RT: 8.52

Response: 28303

Amount: 1

Conc: 309



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:25
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD03013.D
Inj. Date and Time: 03-APR-2013 14:49
Instrument ID: BSMC5973.i
Client ID: CV0610AB-GS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/03/2013

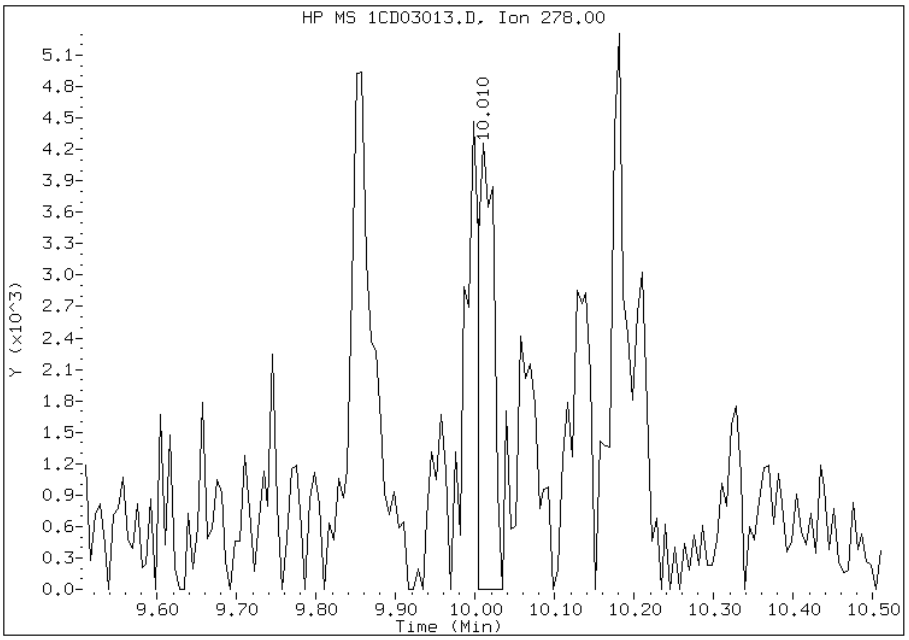
Processing Integration Results

RT: 10.01

Response: 5667

Amount: 0

Conc: 72



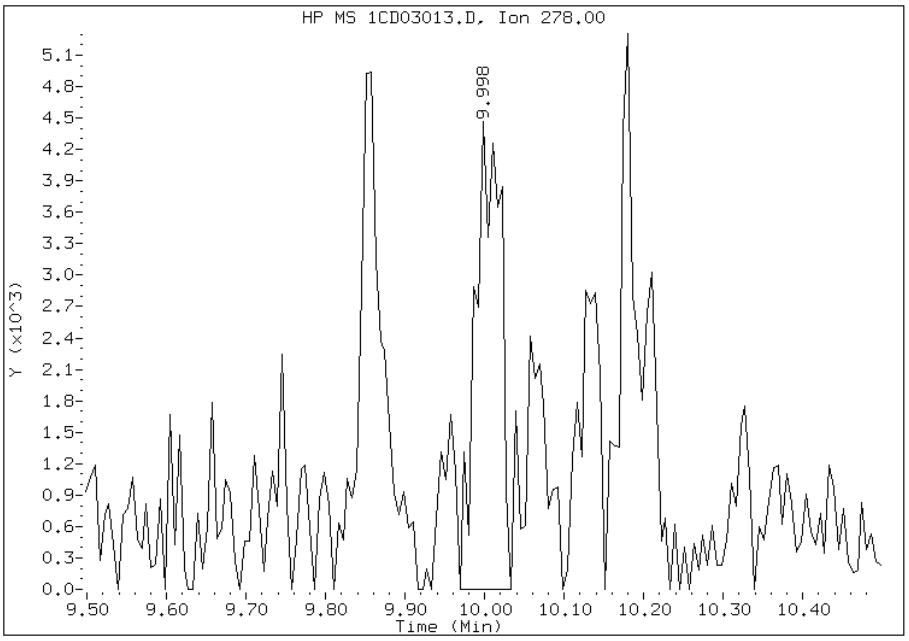
Manual Integration Results

RT: 10.00

Response: 9836

Amount: 0

Conc: 126



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:25
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD03013.D
Inj. Date and Time: 03-APR-2013 14:49
Instrument ID: BSMC5973.i
Client ID: CV0610AB-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

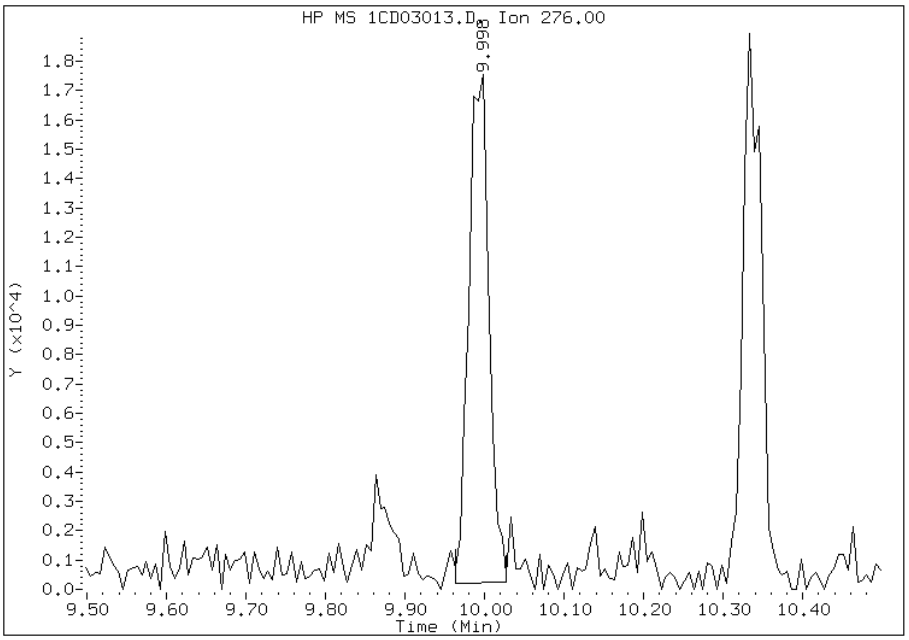
Processing Integration Results

RT: 10.00

Response: 30564

Amount: 1

Conc: 361



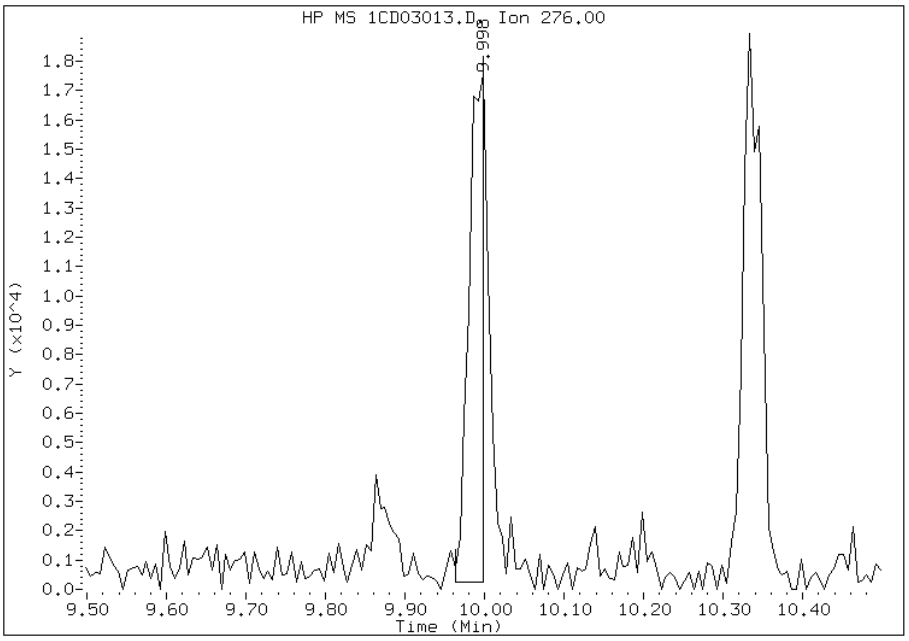
Manual Integration Results

RT: 10.00

Response: 23674

Amount: 1

Conc: 280



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:26
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-1

SDG No.: 68088766-1

Client Sample ID: CV0506A-CS | Lab Sample ID: 680-88766-19

Matrix: Solid | Lab File ID: 1CD03014.D

Analysis Method: 8270C LL | Date Collected: 03/25/2013 15:06

Extract. Method: 3546 | Date Extracted: 03/29/2013 10:19

Sample wt/vol: 14.81(g) | Date Analyzed: 04/03/2013 15:07

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

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

% Moisture: 24.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136081 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	34	J	210	27
120-12-7	Anthracene	51		45	22
56-55-3	Benzo[a]anthracene	280		43	21
50-32-8	Benzo[a]pyrene	250		56	28
205-99-2	Benzo[b]fluoranthene	460		65	33
191-24-2	Benzo[g,h,i]perylene	250		110	24
207-08-9	Benzo[k]fluoranthene	190		43	19
218-01-9	Chrysene	360		48	24
53-70-3	Dibenz(a,h)anthracene	100	J	110	22
206-44-0	Fluoranthene	310		110	21
86-73-7	Fluorene	26	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	240		110	38
90-12-0	1-Methylnaphthalene	140	J	210	24
91-57-6	2-Methylnaphthalene	180	J	210	38
91-20-3	Naphthalene	190	J	210	24
85-01-8	Phenanthrene	240		43	21
129-00-0	Pyrene	290		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	98		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03014.D
Lab Smp Id: 680-88766-A-19-A Client Smp ID: CV0506A-CS
Inj Date : 03-APR-2013 15:07
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88766-a-19-a
Misc Info : 680-88766-A-19-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m
Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 14
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.810	Weight Extracted
M	24.254	% 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	3.710	3.704	(1.000)	763309	40.0000	
* 6 Acenaphthene-d10	164	4.792	4.792	(1.000)	591380	40.0000	
* 10 Phenanthrene-d10	188	5.739	5.739	(1.000)	1087875	40.0000	
$ 14 o-Terphenyl	230	5.992	5.992	(1.044)	30508	2.44349	871.2734
* 18 Chrysene-d12	240	7.680	7.680	(1.000)	1222152	40.0000	
* 23 Perylene-d12	264	8.850	8.851	(1.000)	1134770	40.0000	
2 Naphthalene	128	3.721	3.722	(1.003)	10512	0.53618	191.1847(Q)
3 2-Methylnaphthalene	142	4.145	4.145	(1.117)	6862	0.51417	183.3380
4 1-Methylnaphthalene	142	4.210	4.210	(1.135)	4658	0.38789	138.3097
5 Acenaphthylene	152	4.710	4.704	(0.983)	2318	0.09471	33.7692(Q)
9 Fluorene	166	5.133	5.133	(1.071)	1450	0.07175	25.5837(Q)
11 Phenanthrene	178	5.757	5.757	(1.003)	21703	0.68498	244.2441
12 Anthracene	178	5.792	5.792	(1.009)	4617	0.14375	51.2568
13 Carbazole	167	5.898	5.898	(1.028)	2253	0.08188	29.1945(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.592	6.592	(1.149)	30746	0.87868	313.3118
16 Pyrene	202	6.757	6.757	(0.880)	27108	0.80072	285.5121
17 Benzo(a)anthracene	228	7.668	7.668	(0.998)	23085	0.78753	280.8092
19 Chrysene	228	7.698	7.698	(1.002)	35119	1.00841	359.5694
20 Benzo(b)fluoranthene	252	8.509	8.509	(0.961)	41240	1.28550	458.3699(M)
21 Benzo(k)fluoranthene	252	8.521	8.533	(0.963)	16792	0.54119	192.9712(MH)
22 Benzo(a)pyrene	252	8.798	8.798	(0.994)	21005	0.69545	247.9765
24 Indeno(1,2,3-cd)pyrene	276	9.997	9.992	(1.130)	19212	0.66970	238.7940(M)
25 Dibenzo(a,h)anthracene	278	10.009	10.009	(1.131)	7466	0.28173	100.4564(Q)
26 Benzo(g,h,i)perylene	276	10.339	10.339	(1.168)	20457	0.69869	249.1317

QC Flag Legend

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

Data File: 1CD03014.D

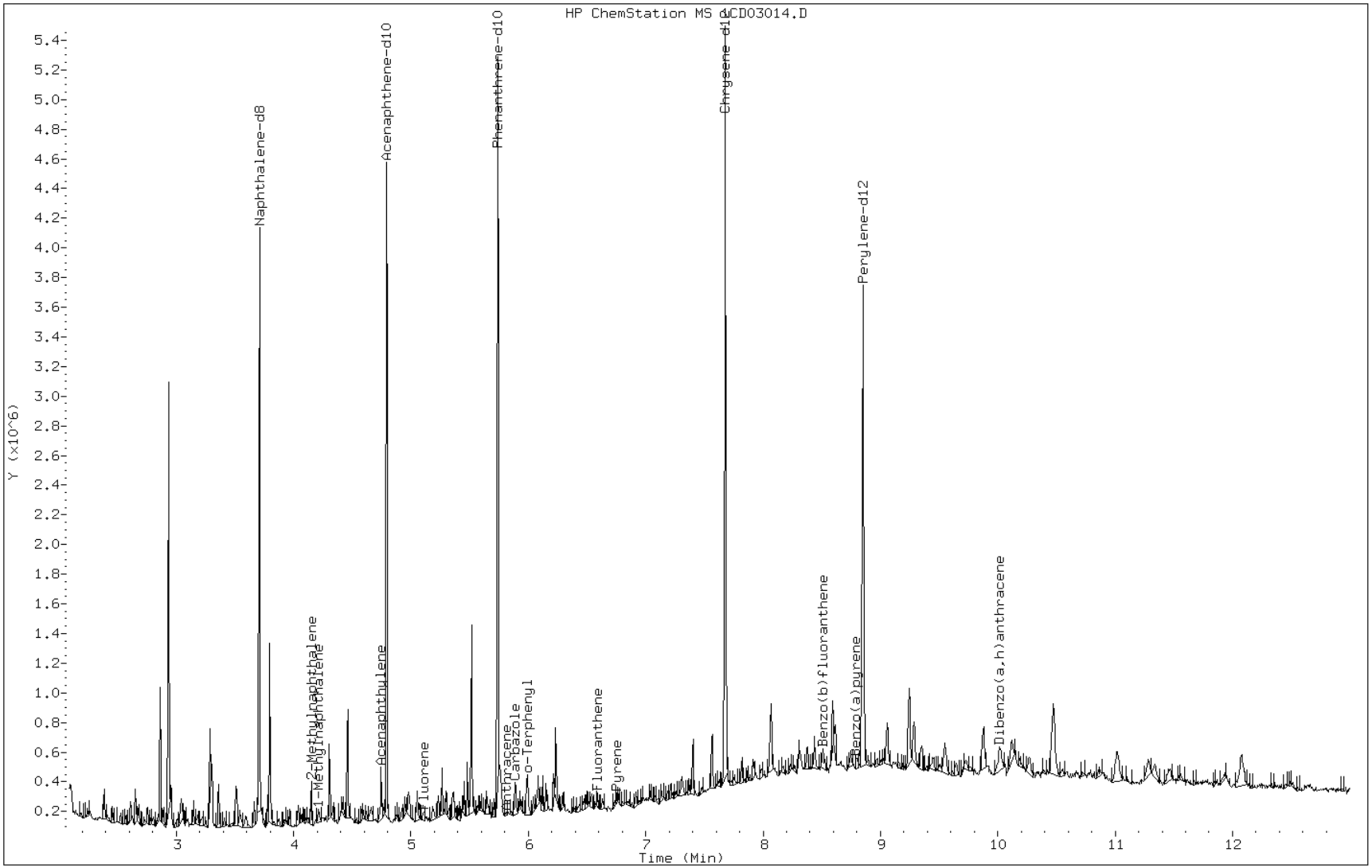
Date: 03-APR-2013 15:07

Client ID: CV0506A-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-19-a

Operator: SCC



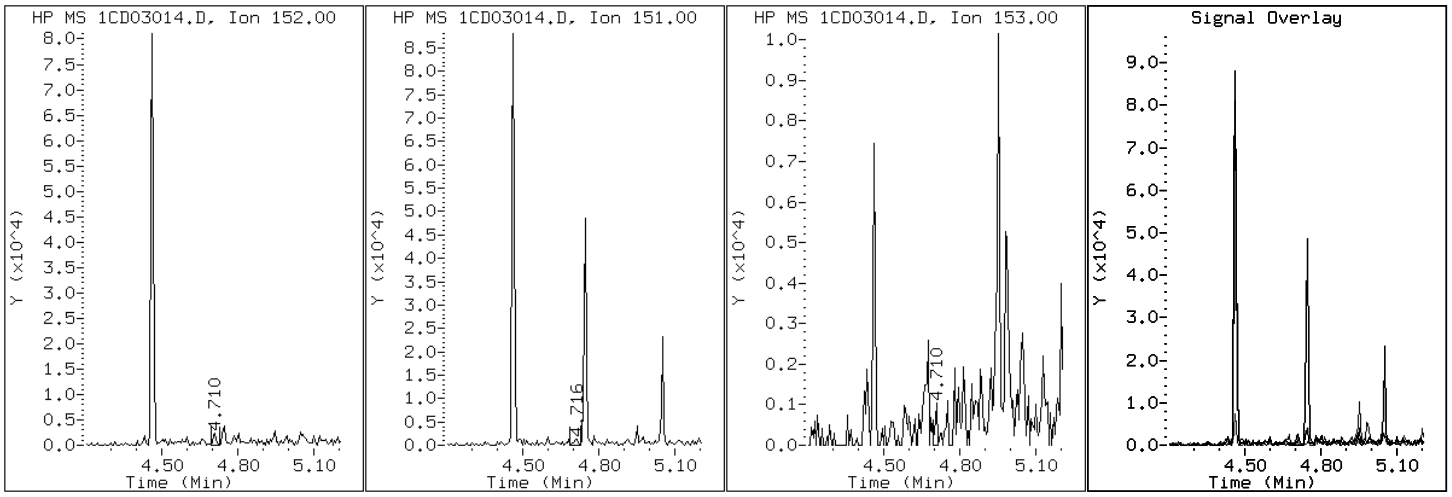
Data File: 1CD03014.D

Date: 03-APR-2013 15:07

Client ID: CV0506A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-19-a Operator: SCC

5 Acenaphthylene



Data File: 1CD03014.D

Date: 03-APR-2013 15:07

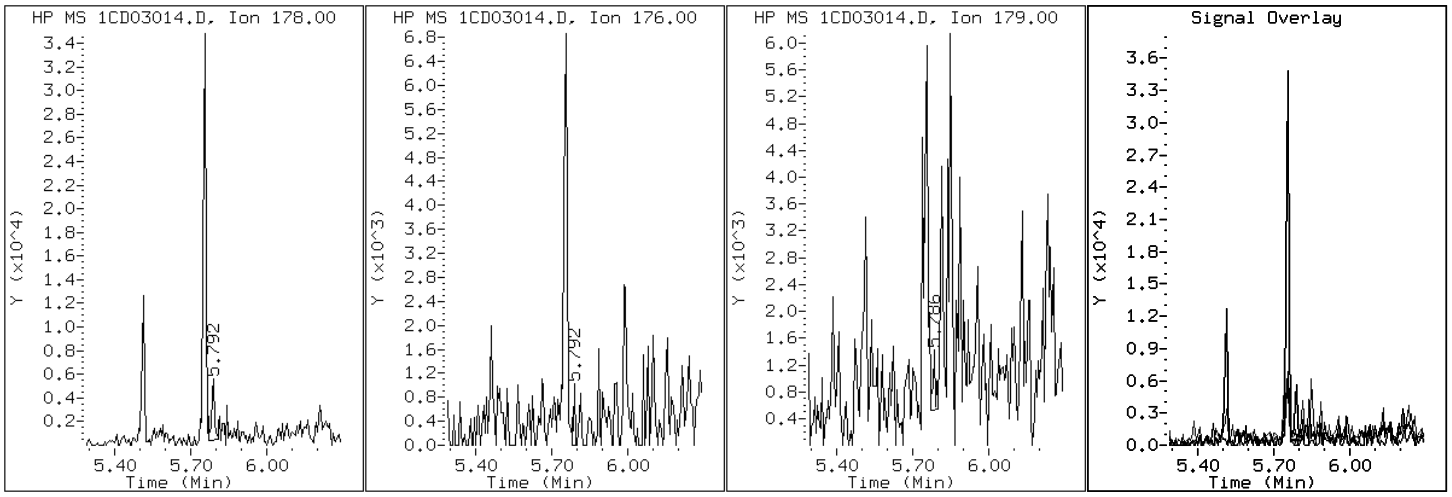
Client ID: CV0506A-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-19-a

Operator: SCC

12 Anthracene



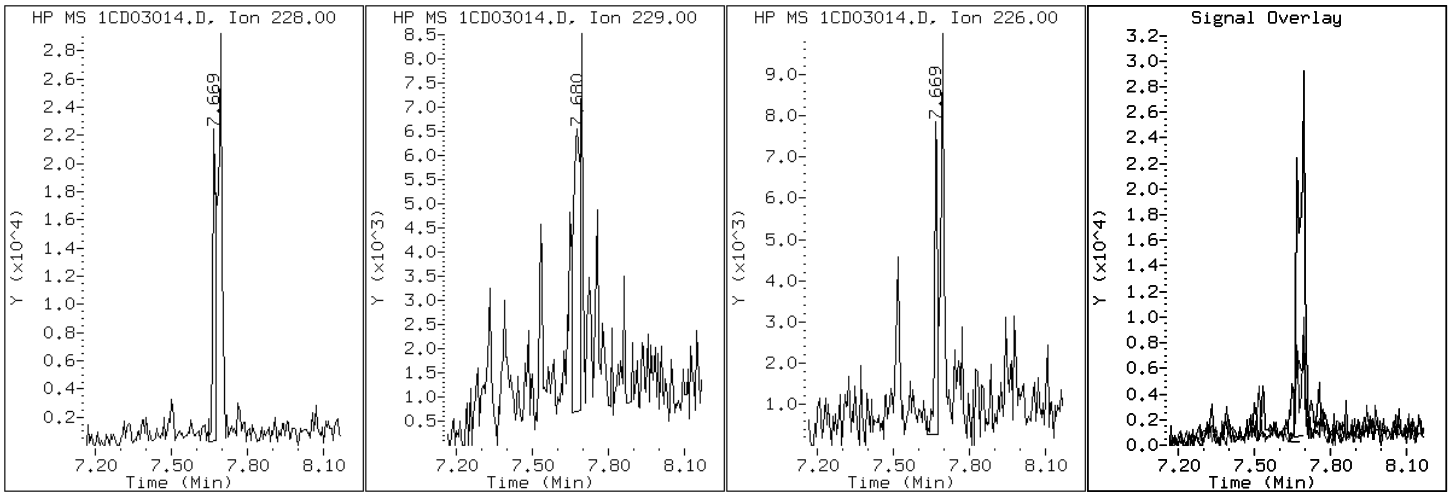
Data File: 1CD03014.D

Date: 03-APR-2013 15:07

Client ID: CV0506A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-19-a Operator: SCC

17 Benzo(a)anthracene



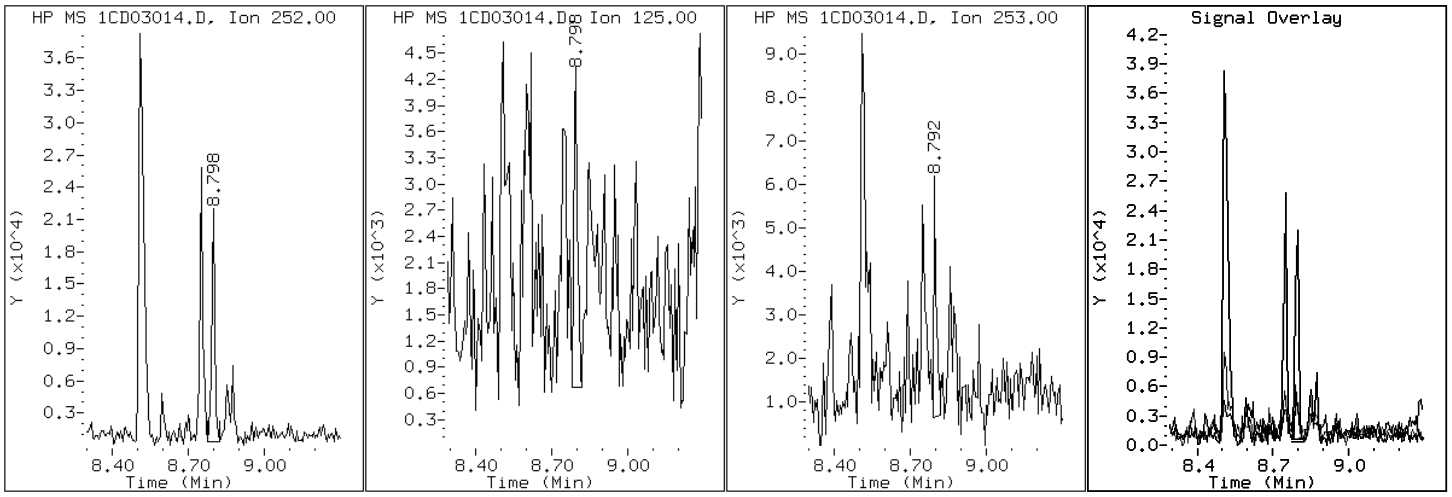
Data File: 1CD03014.D

Date: 03-APR-2013 15:07

Client ID: CV0506A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-19-a Operator: SCC

22 Benzo(a)pyrene



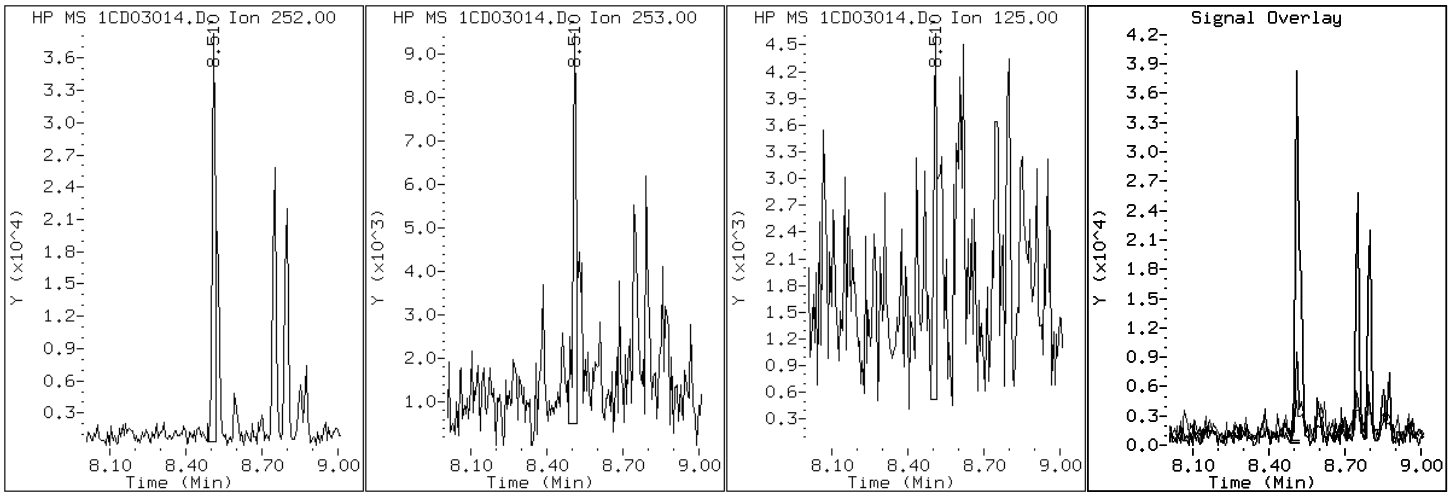
Data File: 1CD03014.D

Date: 03-APR-2013 15:07

Client ID: CV0506A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-19-a Operator: SCC

20 Benzo(b)fluoranthene



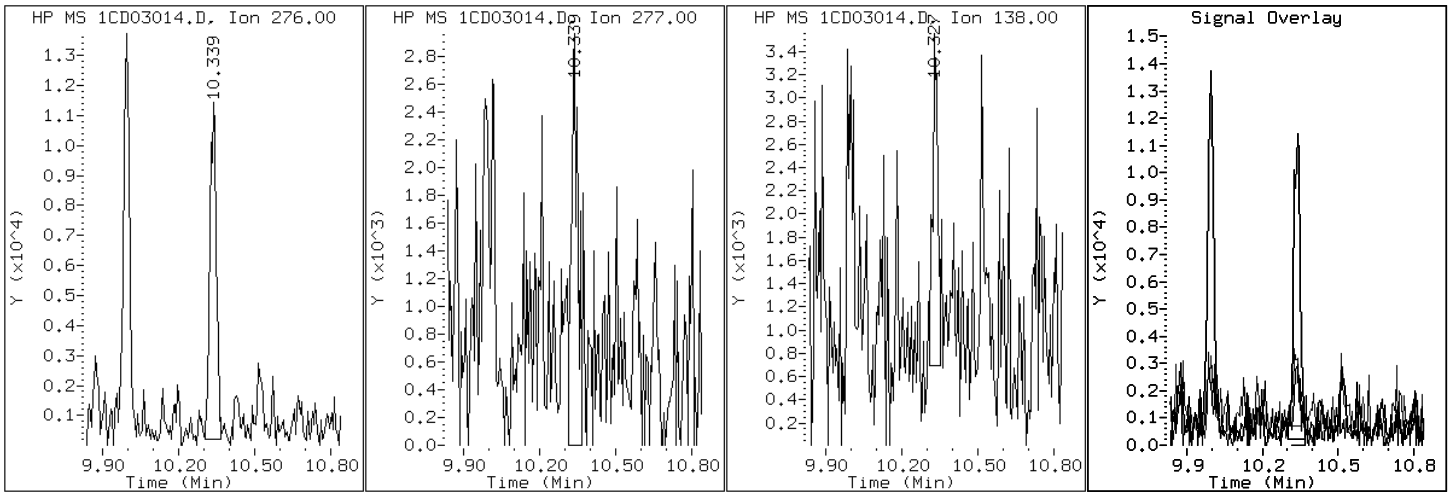
Data File: 1CD03014.D

Date: 03-APR-2013 15:07

Client ID: CV0506A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-19-a Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD03014.D

Date: 03-APR-2013 15:07

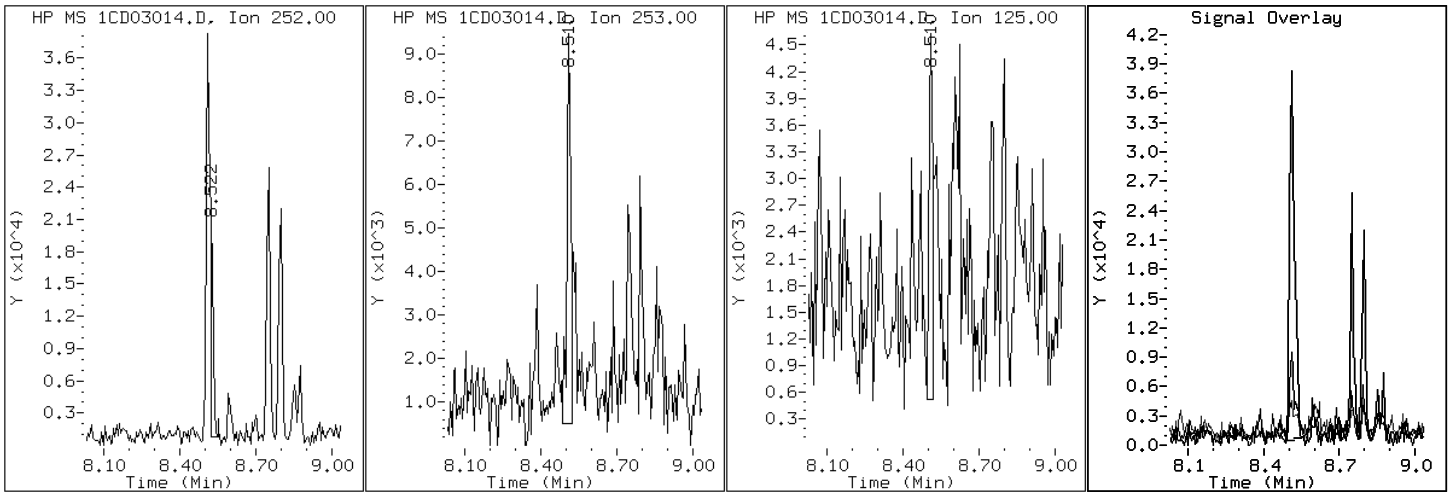
Client ID: CV0506A-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-19-a

Operator: SCC

21 Benzo(k)fluoranthene



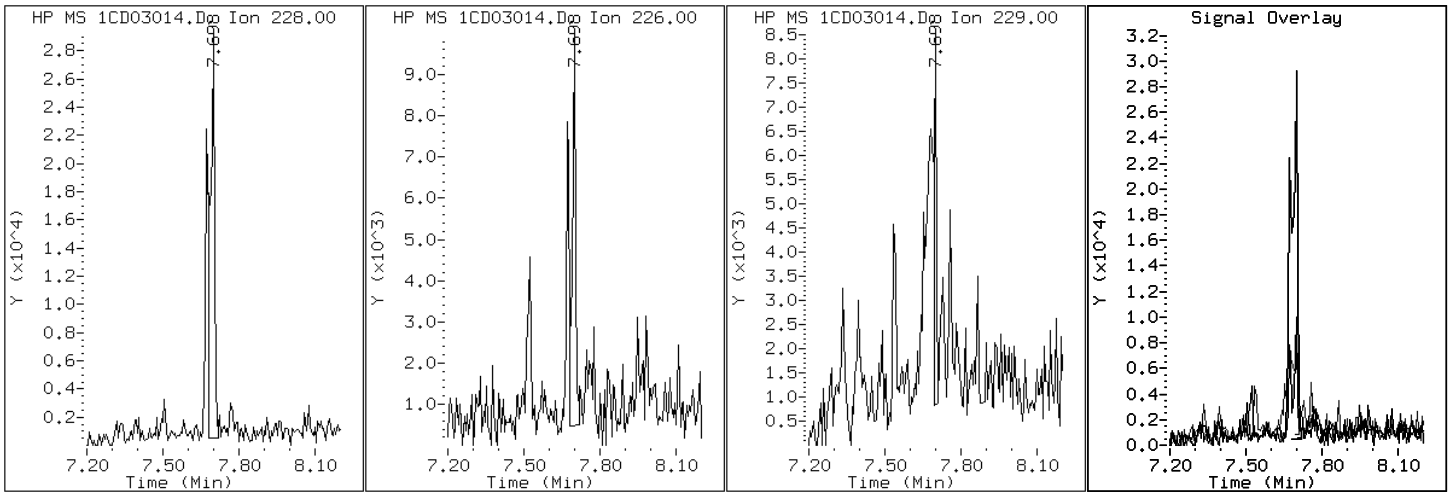
Data File: 1CD03014.D

Date: 03-APR-2013 15:07

Client ID: CV0506A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-19-a Operator: SCC

19 Chrysene



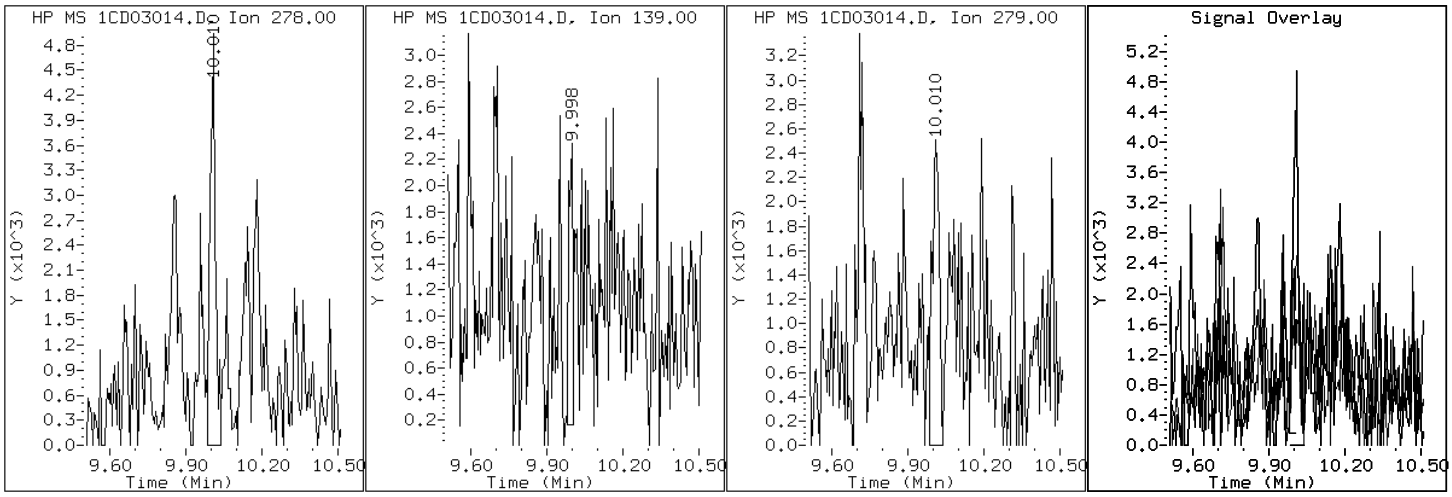
Data File: 1CD03014.D

Date: 03-APR-2013 15:07

Client ID: CV0506A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-19-a Operator: SCC

25 Dibenzo(a,h)anthracene



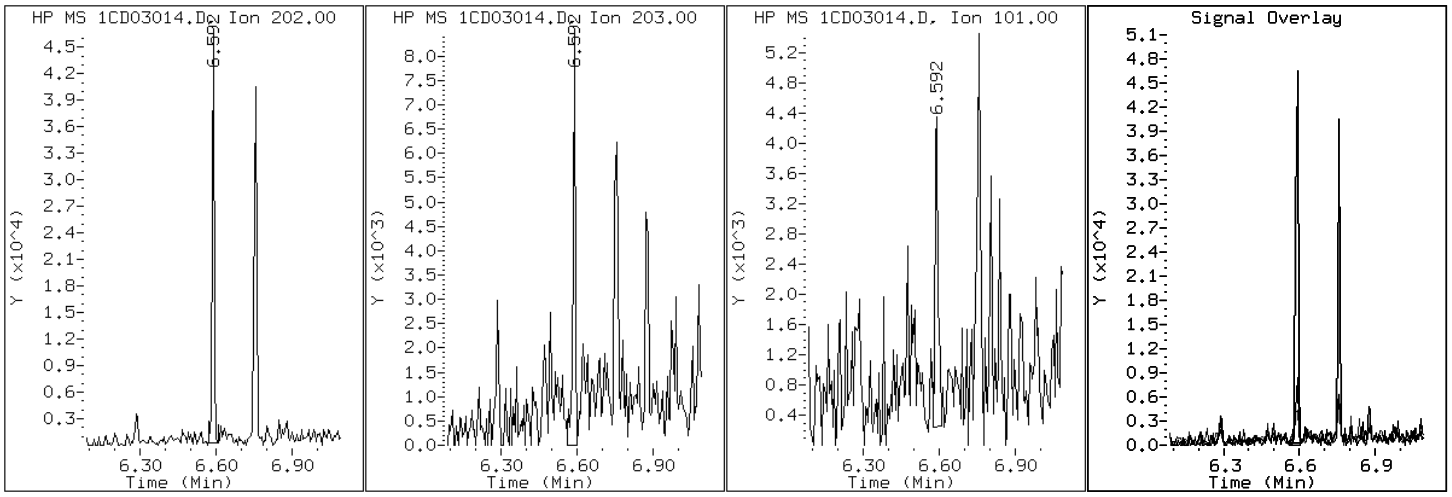
Data File: 1CD03014.D

Date: 03-APR-2013 15:07

Client ID: CV0506A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-19-a Operator: SCC

15 Fluoranthene



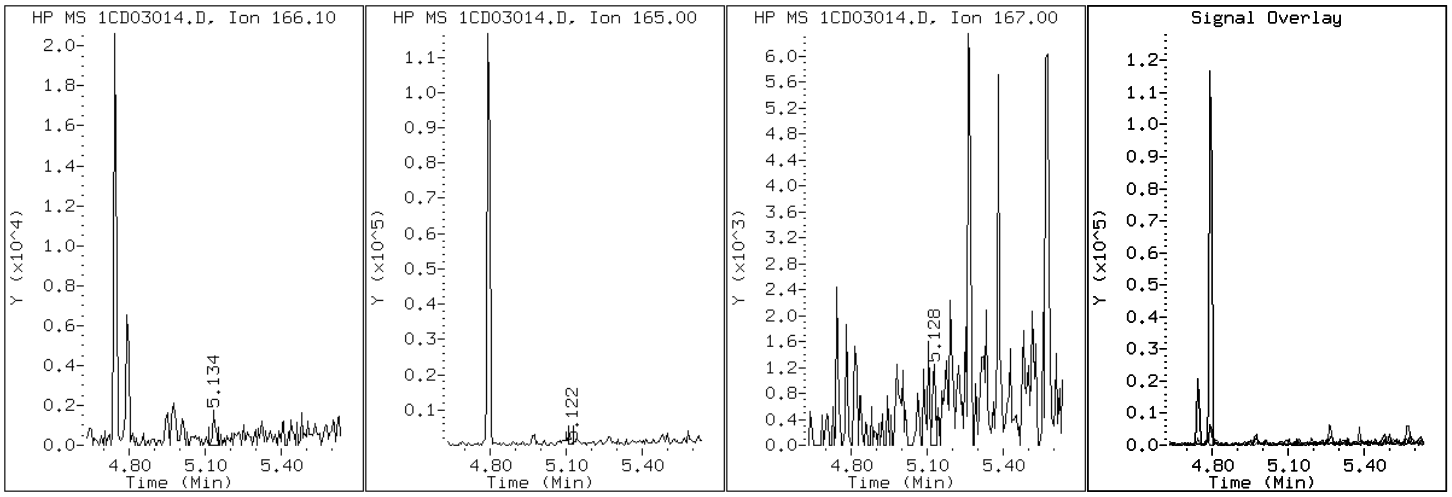
Data File: 1CD03014.D

Date: 03-APR-2013 15:07

Client ID: CV0506A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-19-a Operator: SCC

9 Fluorene



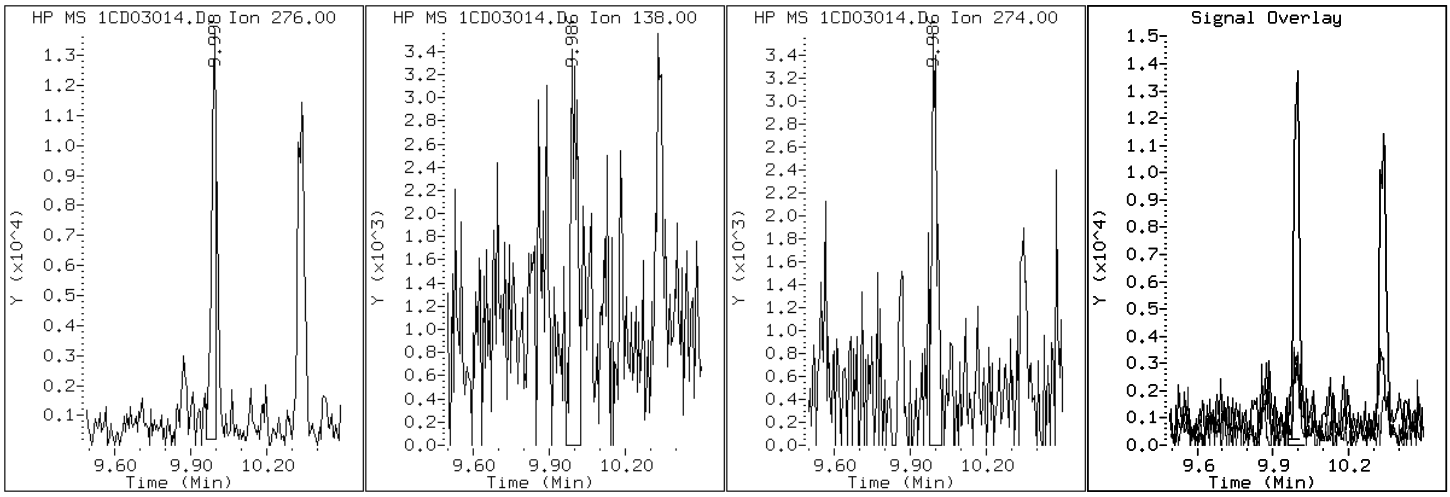
Data File: 1CD03014.D

Date: 03-APR-2013 15:07

Client ID: CV0506A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-19-a Operator: SCC

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



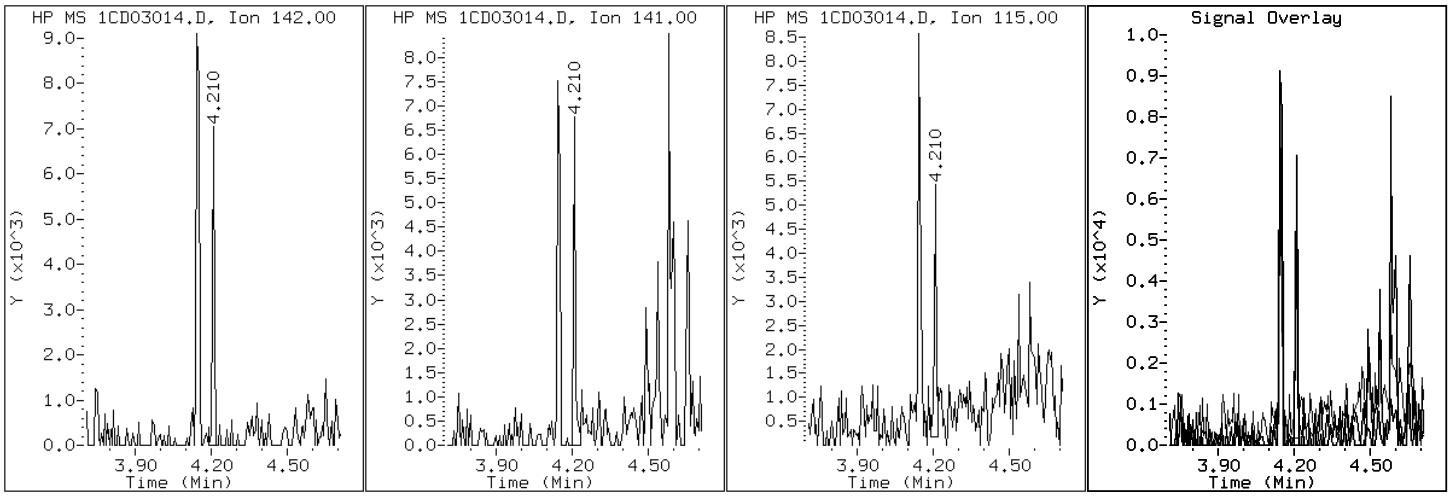
Data File: 1CD03014.D

Date: 03-APR-2013 15:07

Client ID: CV0506A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-19-a Operator: SCC

4 1-Methylnaphthalene



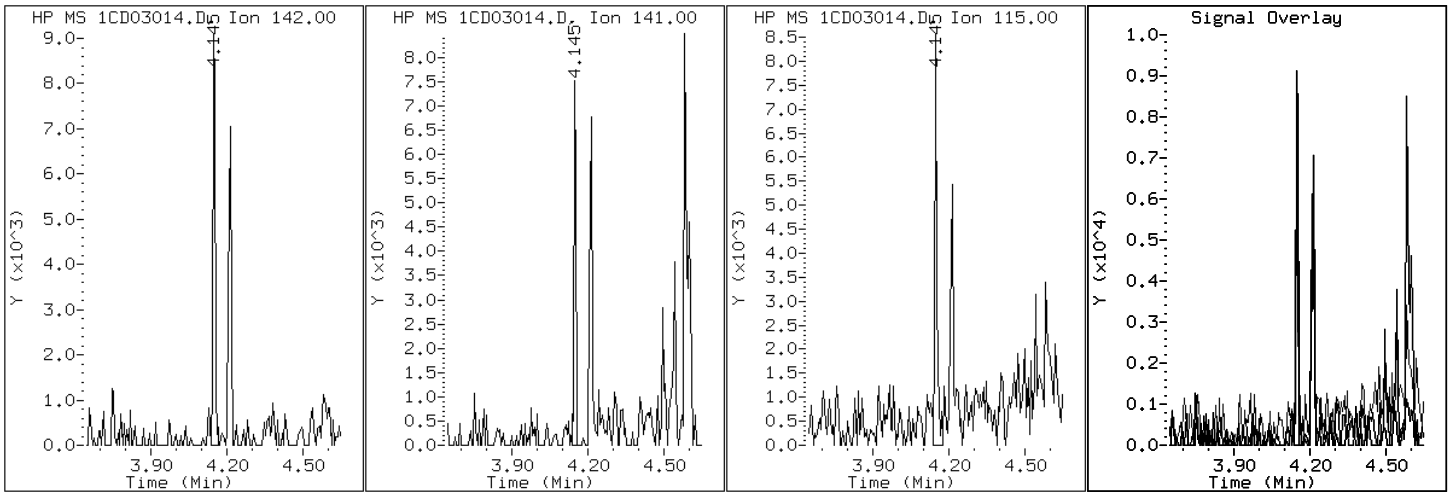
Data File: 1CD03014.D

Date: 03-APR-2013 15:07

Client ID: CV0506A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-19-a Operator: SCC

3 2-Methylnaphthalene



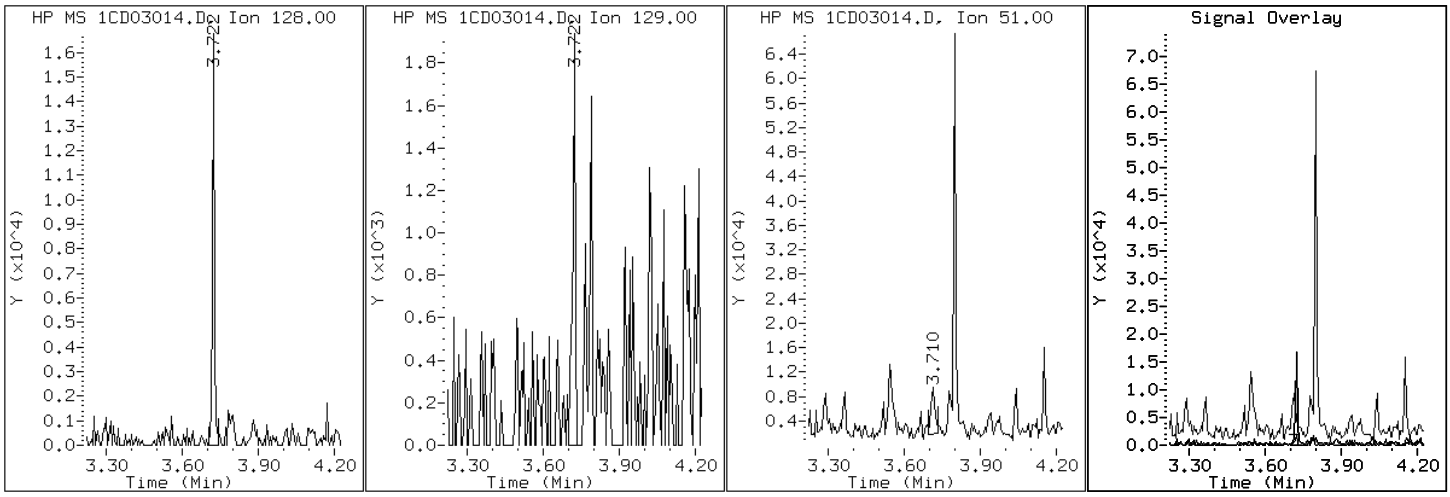
Data File: 1CD03014.D

Date: 03-APR-2013 15:07

Client ID: CV0506A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-19-a Operator: SCC

2 Naphthalene



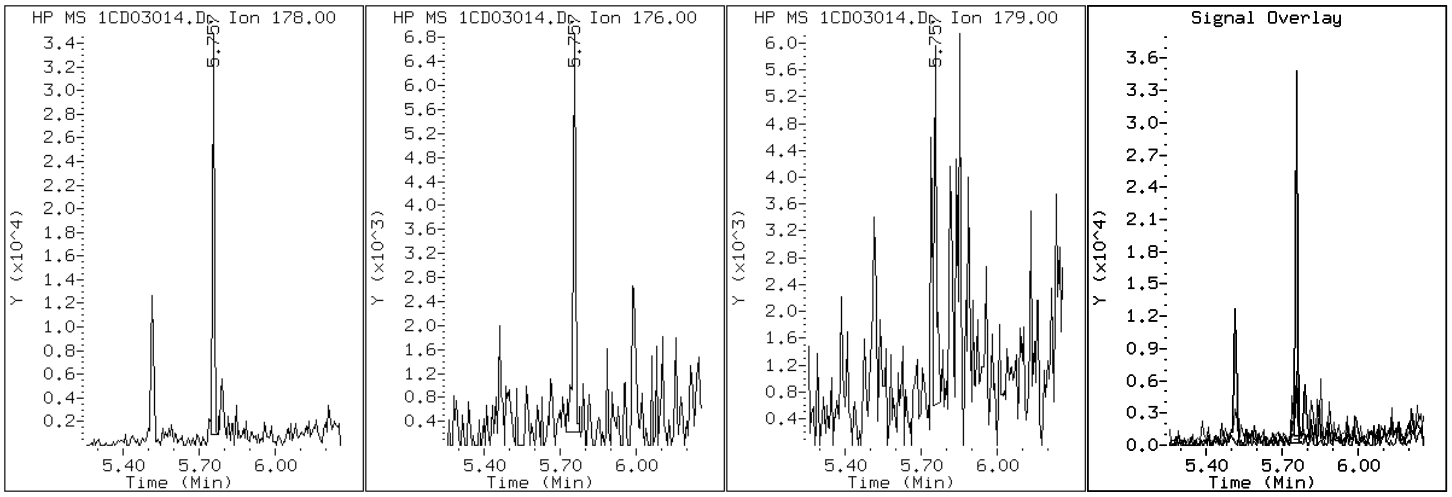
Data File: 1CD03014.D

Date: 03-APR-2013 15:07

Client ID: CV0506A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-19-a Operator: SCC

11 Phenanthrene



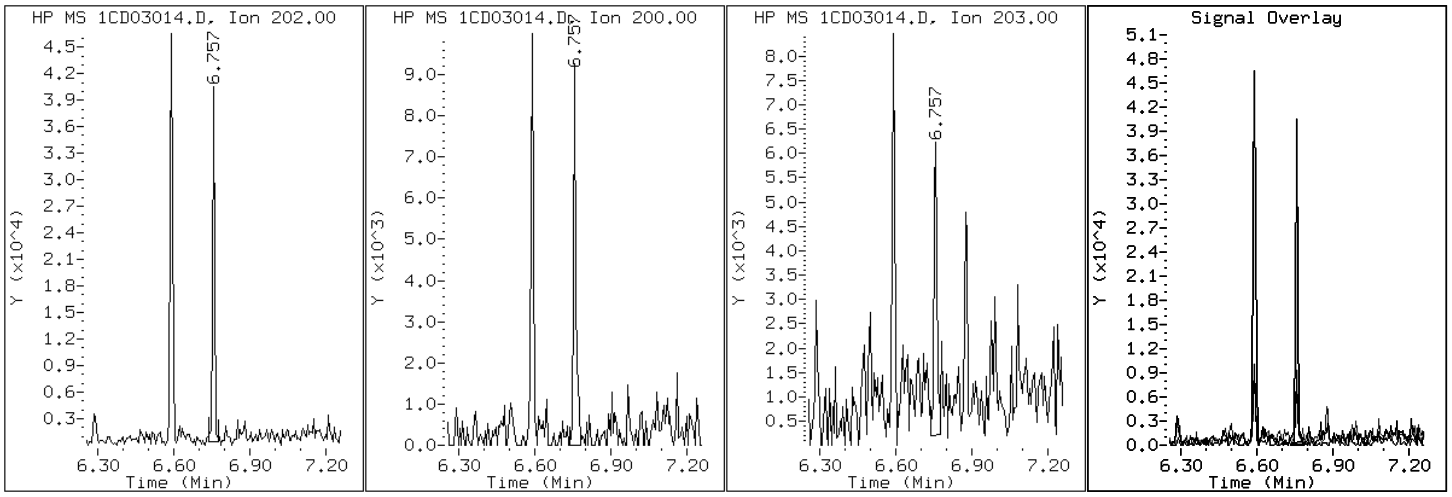
Data File: 1CD03014.D

Date: 03-APR-2013 15:07

Client ID: CV0506A-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-19-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD03014.D
Inj. Date and Time: 03-APR-2013 15:07
Instrument ID: BSMC5973.i
Client ID: CV0506A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/03/2013

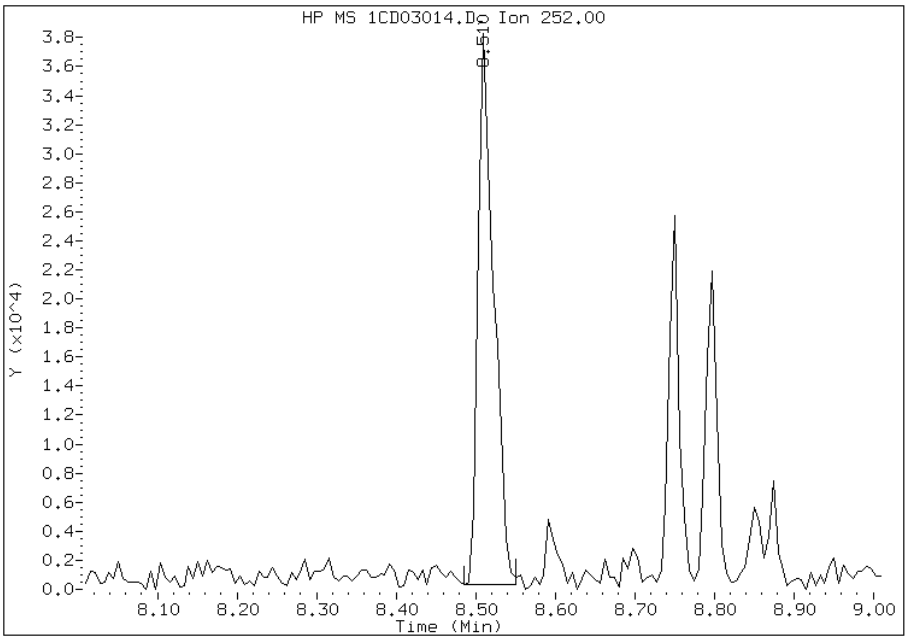
Processing Integration Results

RT: 8.51

Response: 51729

Amount: 2

Conc: 575



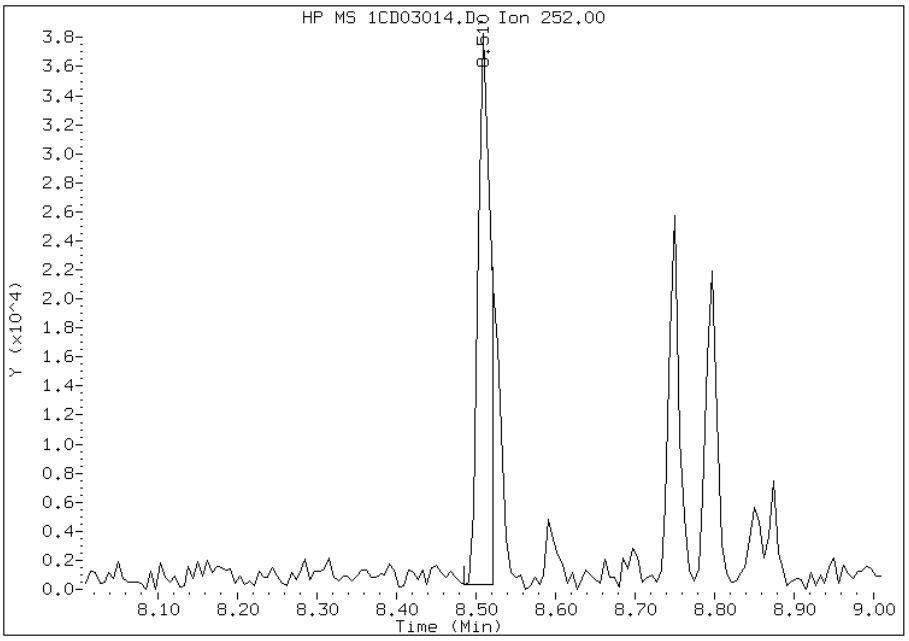
Manual Integration Results

RT: 8.51

Response: 41240

Amount: 1

Conc: 458



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:29
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD03014.D
Inj. Date and Time: 03-APR-2013 15:07
Instrument ID: BSMC5973.i
Client ID: CV0506A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/03/2013

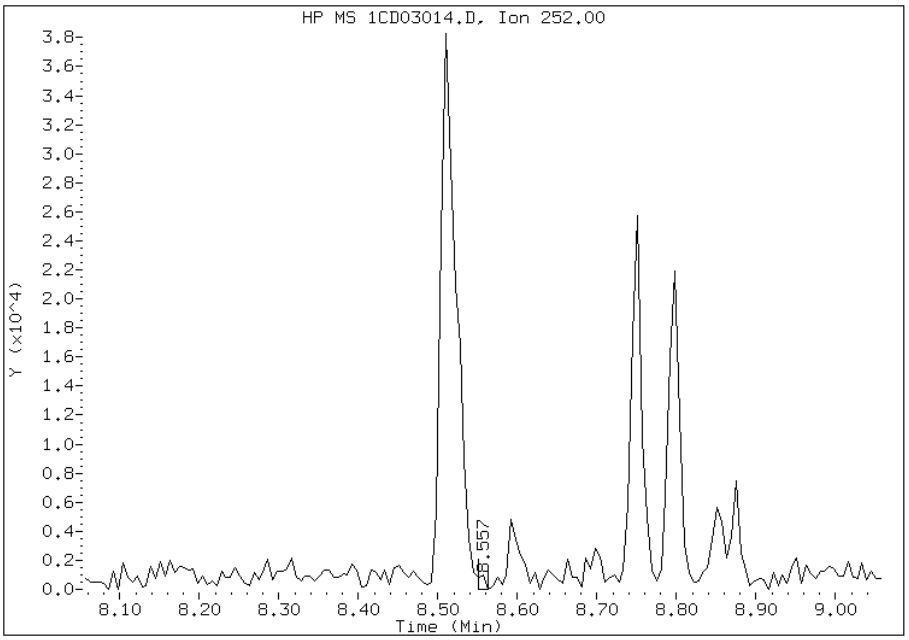
Processing Integration Results

RT: 8.56

Response: 652

Amount: 0

Conc: 7



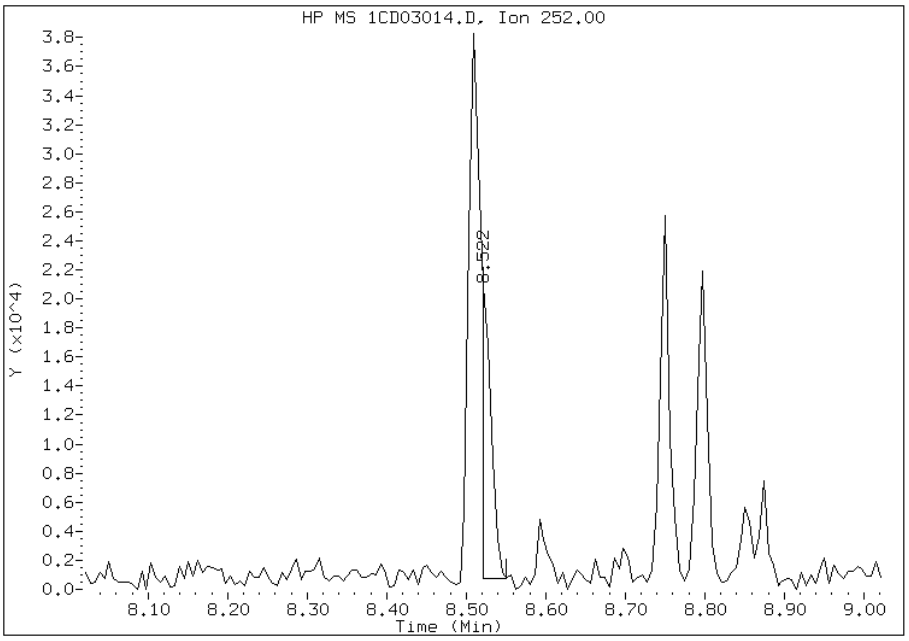
Manual Integration Results

RT: 8.52

Response: 16792

Amount: 1

Conc: 193



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD03014.D
Inj. Date and Time: 03-APR-2013 15:07
Instrument ID: BSMC5973.i
Client ID: CV0506A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

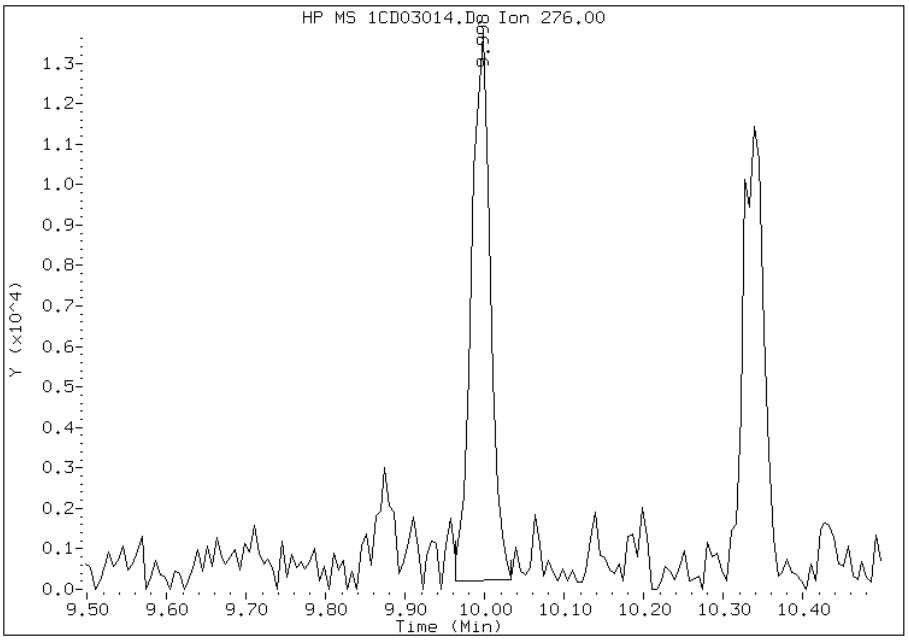
Processing Integration Results

RT: 10.00

Response: 22336

Amount: 1

Conc: 278



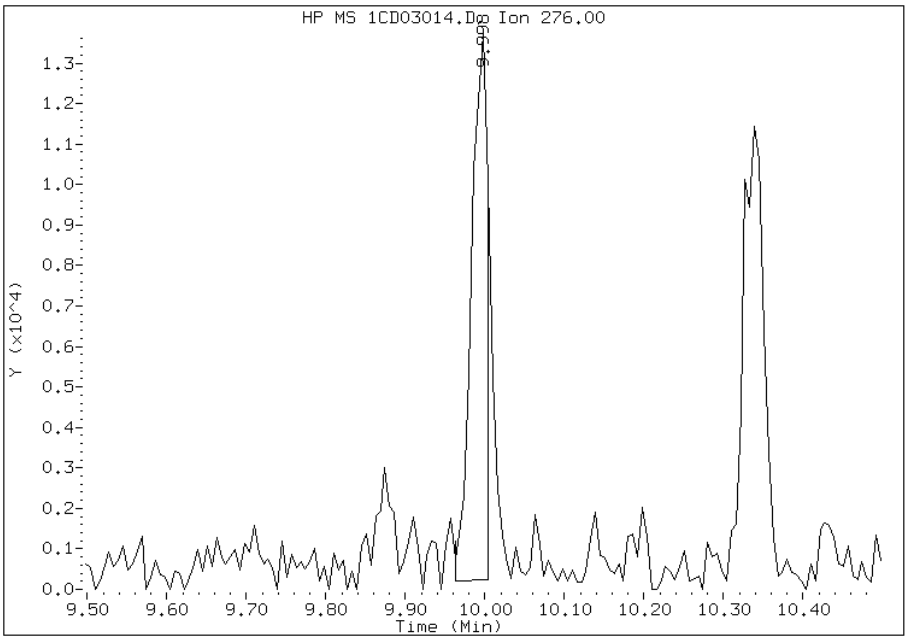
Manual Integration Results

RT: 10.00

Response: 19212

Amount: 1

Conc: 239



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 15:29
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-1

SDG No.: 68088766-1

Client Sample ID: CV0506B-CS | Lab Sample ID: 680-88766-20

Matrix: Solid | Lab File ID: 1CD03024.D

Analysis Method: 8270C LL | Date Collected: 03/25/2013 15:15

Extract. Method: 3546 | Date Extracted: 04/02/2013 11:33

Sample wt/vol: 15.28(g) | Date Analyzed: 04/03/2013 18:19

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

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

% Moisture: 37.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136081 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	31
208-96-8	Acenaphthylene	10	J	63	7.8
120-12-7	Anthracene	10	J	13	6.6
56-55-3	Benzo[a]anthracene	120		13	6.1
50-32-8	Benzo[a]pyrene	100		16	8.1
205-99-2	Benzo[b]fluoranthene	180		19	9.5
191-24-2	Benzo[g,h,i]perylene	83		31	6.9
207-08-9	Benzo[k]fluoranthene	73		13	5.6
218-01-9	Chrysene	100		14	7.0
53-70-3	Dibenz(a,h)anthracene	33		31	6.4
206-44-0	Fluoranthene	110		31	6.3
86-73-7	Fluorene	9.8	J	31	6.4
193-39-5	Indeno[1,2,3-cd]pyrene	67		31	11
90-12-0	1-Methylnaphthalene	37	J	63	6.9
91-57-6	2-Methylnaphthalene	57	J	63	11
91-20-3	Naphthalene	63		63	6.9
85-01-8	Phenanthrene	64		13	6.1
129-00-0	Pyrene	96		31	5.8

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03024.D
Lab Smp Id: 680-88766-A-20-B Client Smp ID: CV0506B-CS
Inj Date : 03-APR-2013 18:19
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88766-a-20-b
Misc Info : 680-88766-A-20-B
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m
Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.280	Weight Extracted
M	37.209	% 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	3.710	3.704	(1.000)	564472	40.0000	
* 6 Acenaphthene-d10	164	4.792	4.792	(1.000)	397520	40.0000	
* 10 Phenanthrene-d10	188	5.739	5.739	(1.000)	747114	40.0000	
$ 14 o-Terphenyl	230	5.992	5.992	(1.044)	71302	6.57235	685.0178
* 18 Chrysene-d12	240	7.680	7.680	(1.000)	856631	40.0000	
* 23 Perylene-d12	264	8.851	8.851	(1.000)	842436	40.0000	
2 Naphthalene	128	3.722	3.722	(1.003)	8731	0.60221	62.7663
3 2-Methylnaphthalene	142	4.145	4.145	(1.117)	5381	0.54523	56.8276
4 1-Methylnaphthalene	142	4.210	4.210	(1.135)	3189	0.35911	37.4285
5 Acenaphthylene	152	4.710	4.704	(0.983)	1606	0.09762	10.1741
9 Fluorene	166	5.133	5.133	(1.071)	1282	0.09437	9.8362(Q)
11 Phenanthrene	178	5.757	5.757	(1.003)	13288	0.61068	63.6492
12 Anthracene	178	5.786	5.792	(1.008)	2198	0.09965	10.3860(Q)
13 Carbazole	167	5.898	5.898	(1.028)	1945	0.10292	10.7272(Q)

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03024.D Page 2
Report Date: 05-Apr-2013 09:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.592	6.592	(1.149)	25236	1.05016	109.4556
16 Pyrene	202	6.757	6.757	(0.880)	21746	0.91642	95.5157
17 Benzo(a)anthracene	228	7.668	7.668	(0.998)	24921	1.13966	118.7840
19 Chrysene	228	7.698	7.698	(1.002)	23575	0.96578	100.6609
20 Benzo(b)fluoranthene	252	8.510	8.509	(0.961)	41310	1.73452	180.7843(M)
21 Benzo(k)fluoranthene	252	8.527	8.533	(0.963)	16091	0.69855	72.8083(QM)
22 Benzo(a)pyrene	252	8.792	8.798	(0.993)	22022	0.98214	102.3652
24 Indeno(1,2,3-cd)pyrene	276	9.998	9.992	(1.130)	13675	0.64210	66.9246(M)
25 Dibenzo(a,h)anthracene	278	10.009	10.009	(1.131)	6256	0.31799	33.1432
26 Benzo(g,h,i)perylene	276	10.339	10.339	(1.168)	17337	0.79761	83.1321(M)

QC Flag Legend

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

Data File: 1CD03024.D

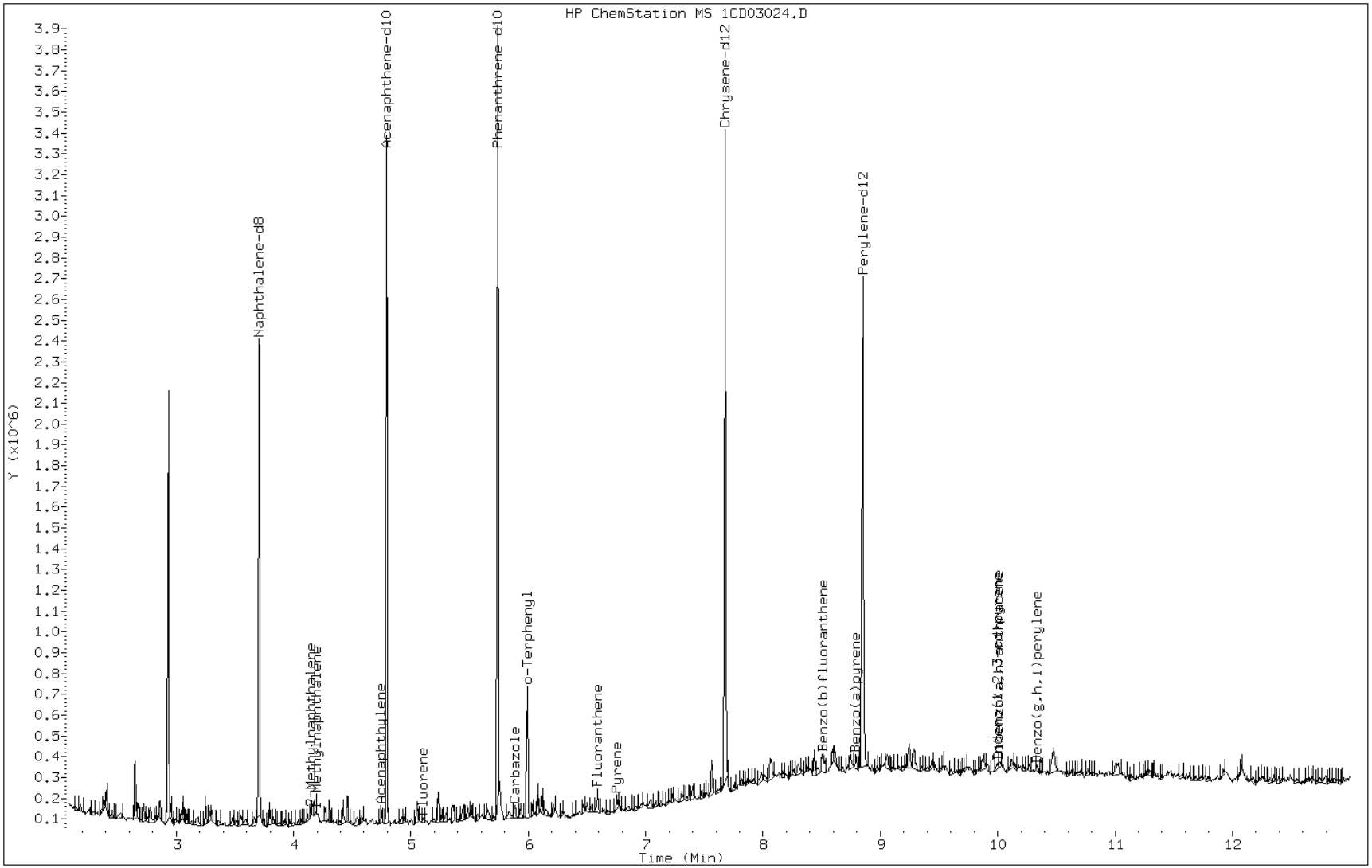
Date: 03-APR-2013 18:19

Client ID: CV0506B-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-20-b

Operator: SCC



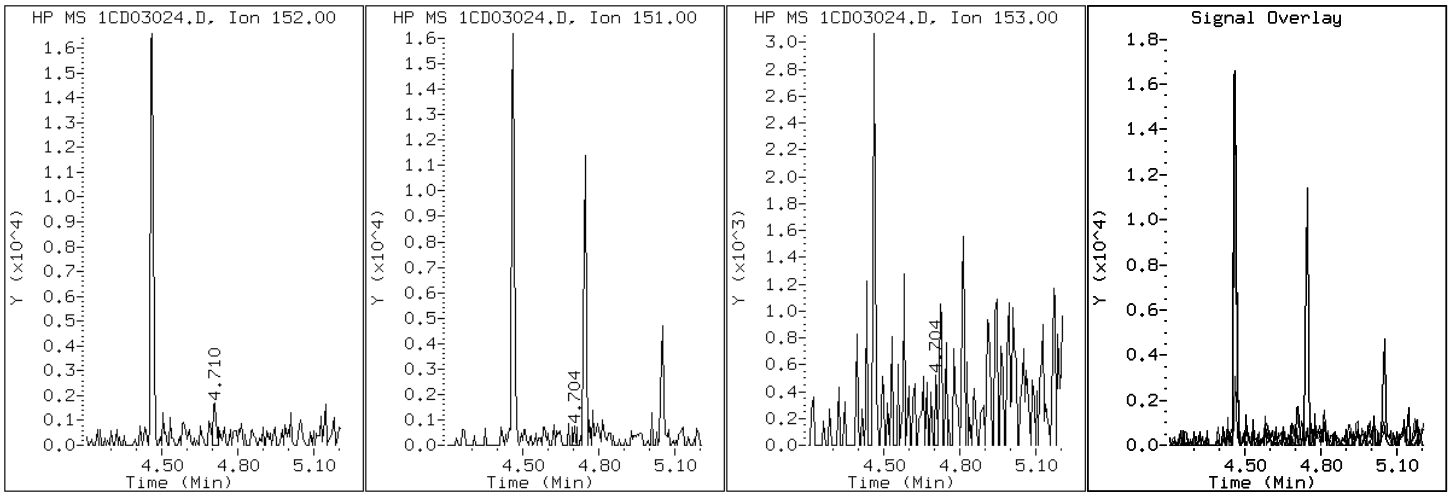
Data File: 1CD03024.D

Date: 03-APR-2013 18:19

Client ID: CV0506B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-20-b Operator: SCC

5 Acenaphthylene



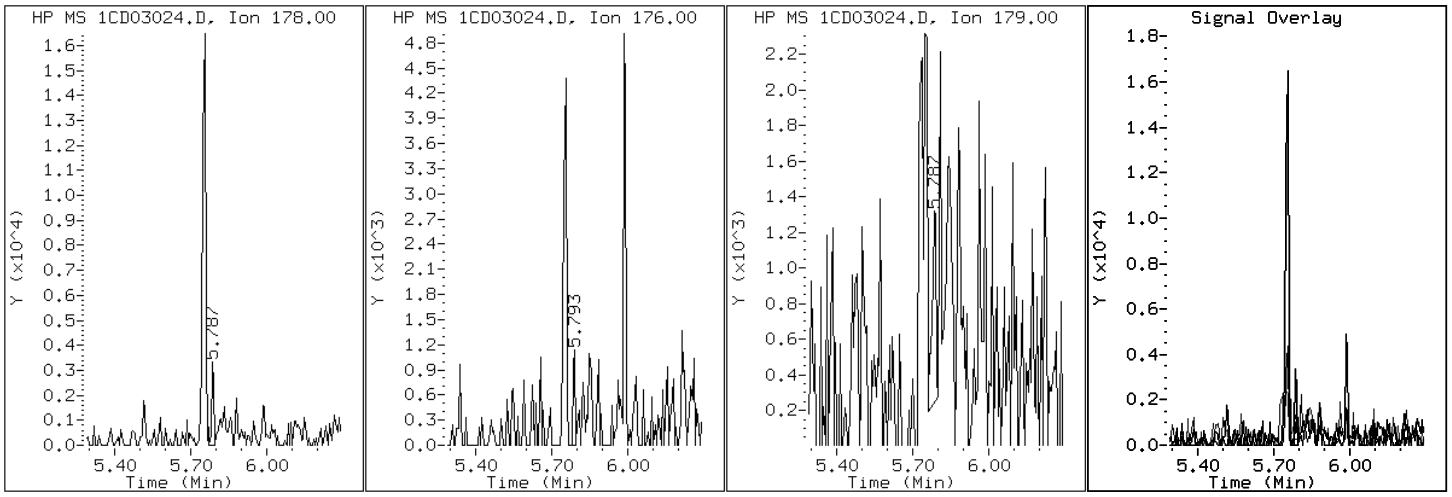
Data File: 1CD03024.D

Date: 03-APR-2013 18:19

Client ID: CV0506B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-20-b Operator: SCC

12 Anthracene



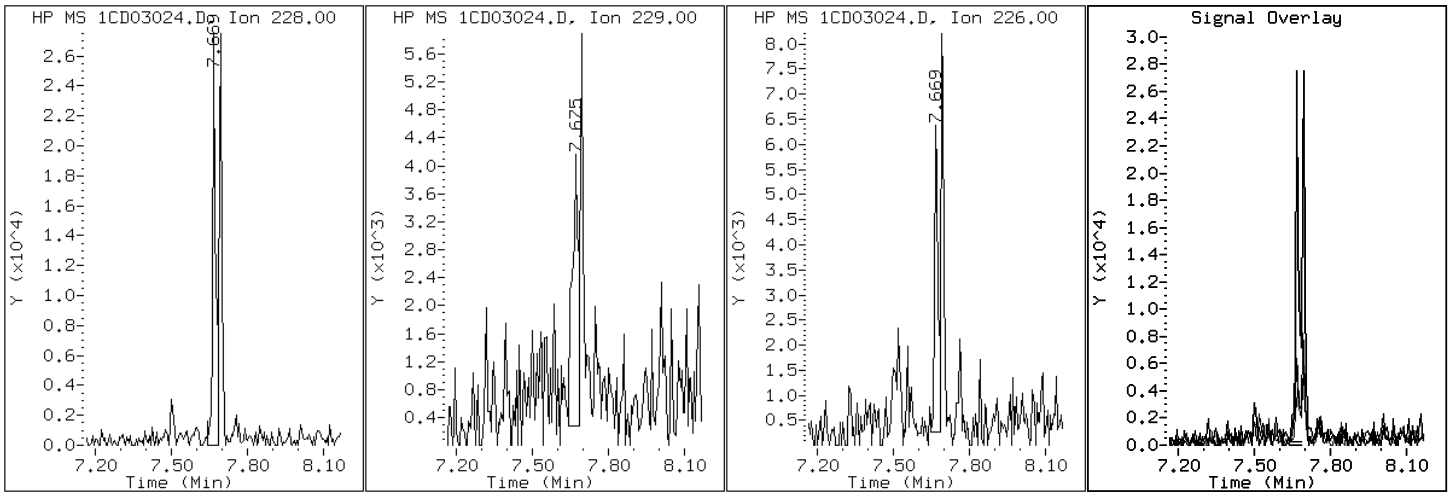
Data File: 1CD03024.D

Date: 03-APR-2013 18:19

Client ID: CV0506B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-20-b Operator: SCC

17 Benzo(a)anthracene



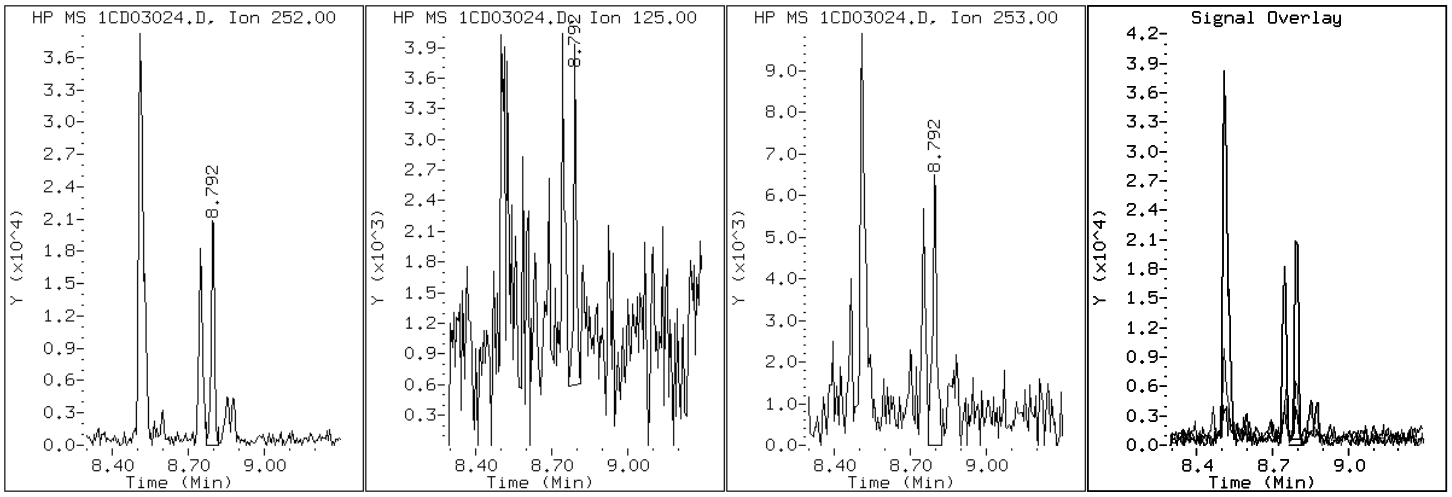
Data File: 1CD03024.D

Date: 03-APR-2013 18:19

Client ID: CV0506B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-20-b Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD03024.D

Date: 03-APR-2013 18:19

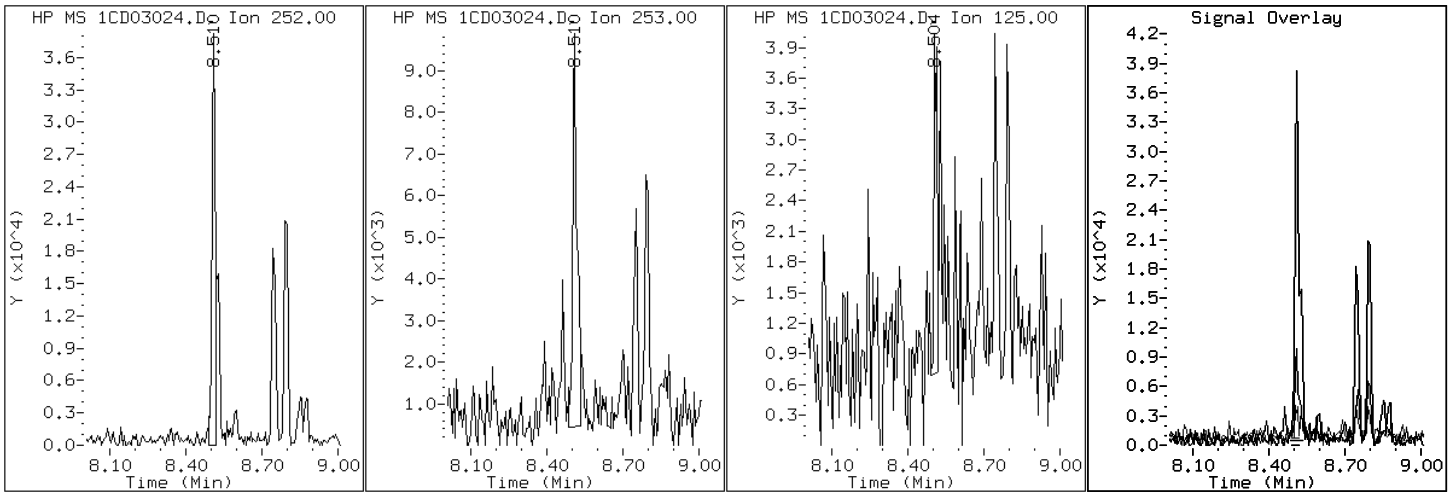
Client ID: CV0506B-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-20-b

Operator: SCC

20 Benzo(b)fluoranthene



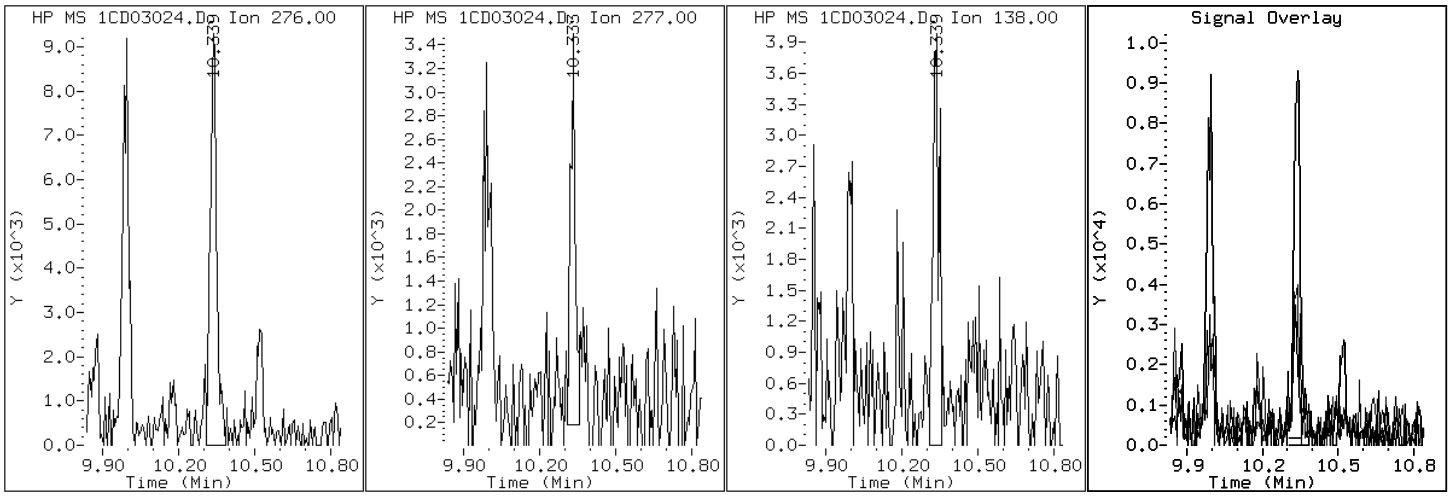
Data File: 1CD03024.D

Date: 03-APR-2013 18:19

Client ID: CV0506B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-20-b Operator: SCC

26 Benzo(g,h,i)perylene



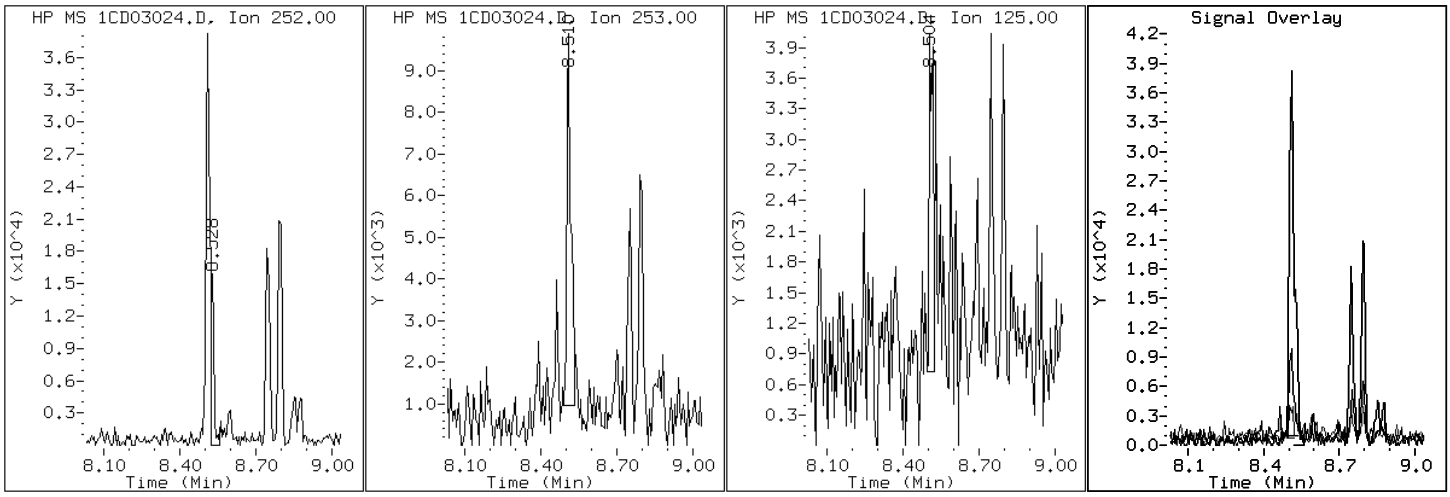
Data File: 1CD03024.D

Date: 03-APR-2013 18:19

Client ID: CV0506B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-20-b Operator: SCC

21 Benzo(k)fluoranthene



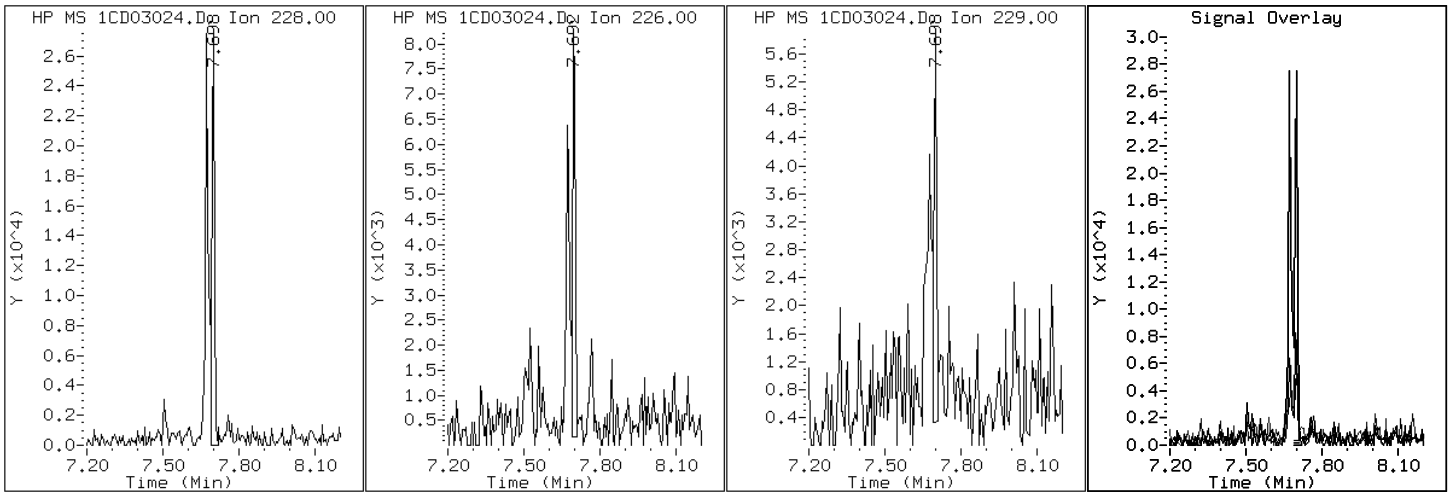
Data File: 1CD03024.D

Date: 03-APR-2013 18:19

Client ID: CV0506B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-20-b Operator: SCC

19 Chrysene



Data File: 1CD03024.D

Date: 03-APR-2013 18:19

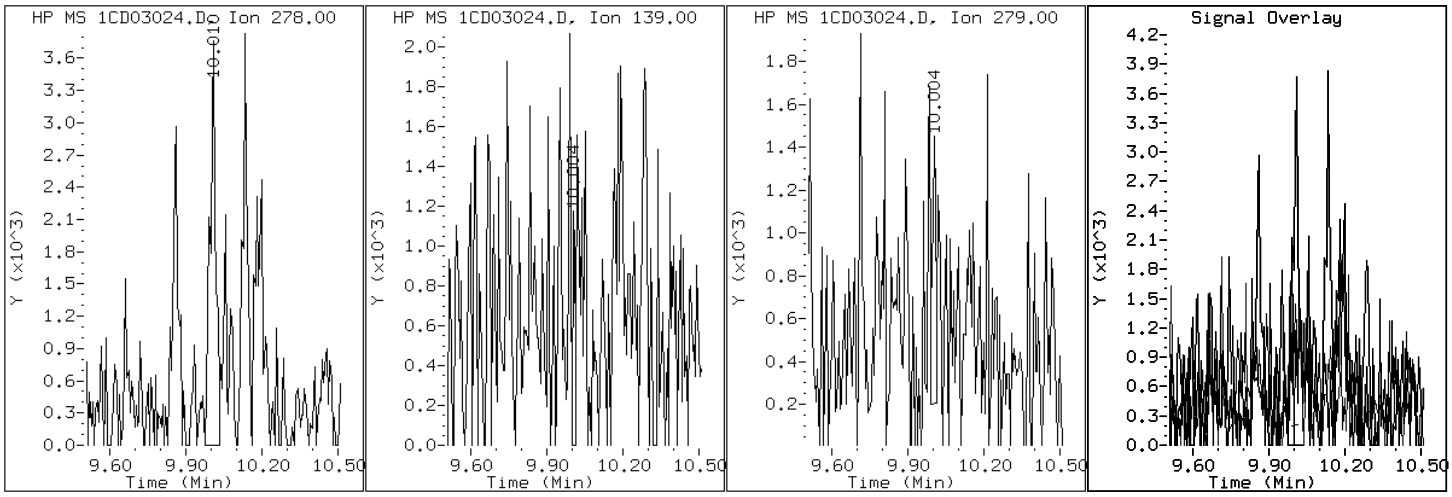
Client ID: CV0506B-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-20-b

Operator: SCC

25 Dibenzo(a,h)anthracene



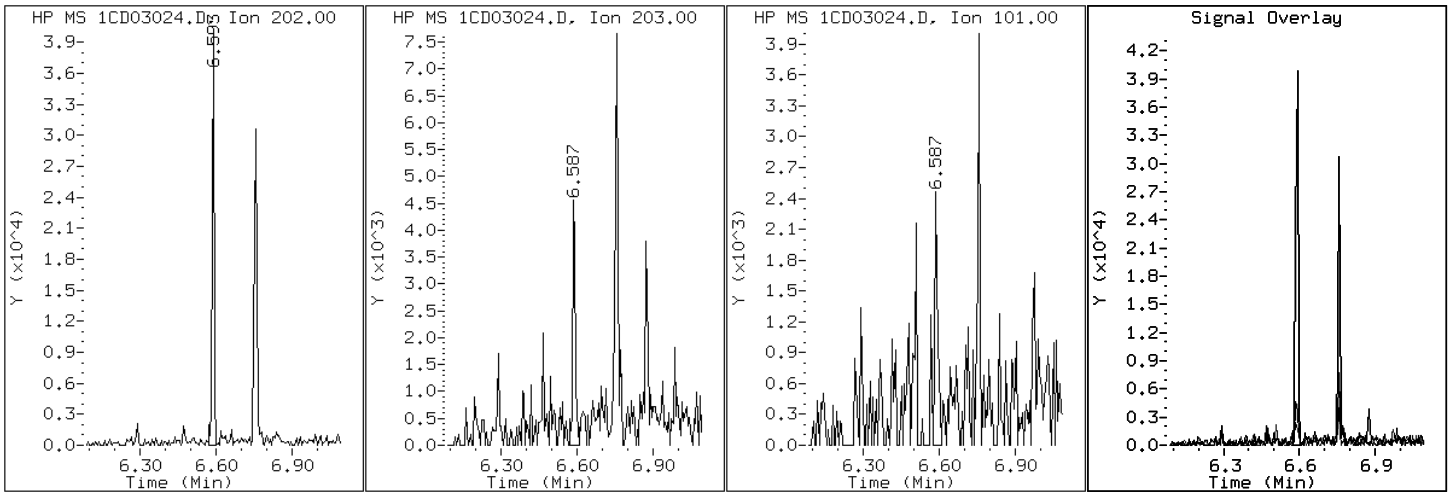
Data File: 1CD03024.D

Date: 03-APR-2013 18:19

Client ID: CV0506B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-20-b Operator: SCC

15 Fluoranthene



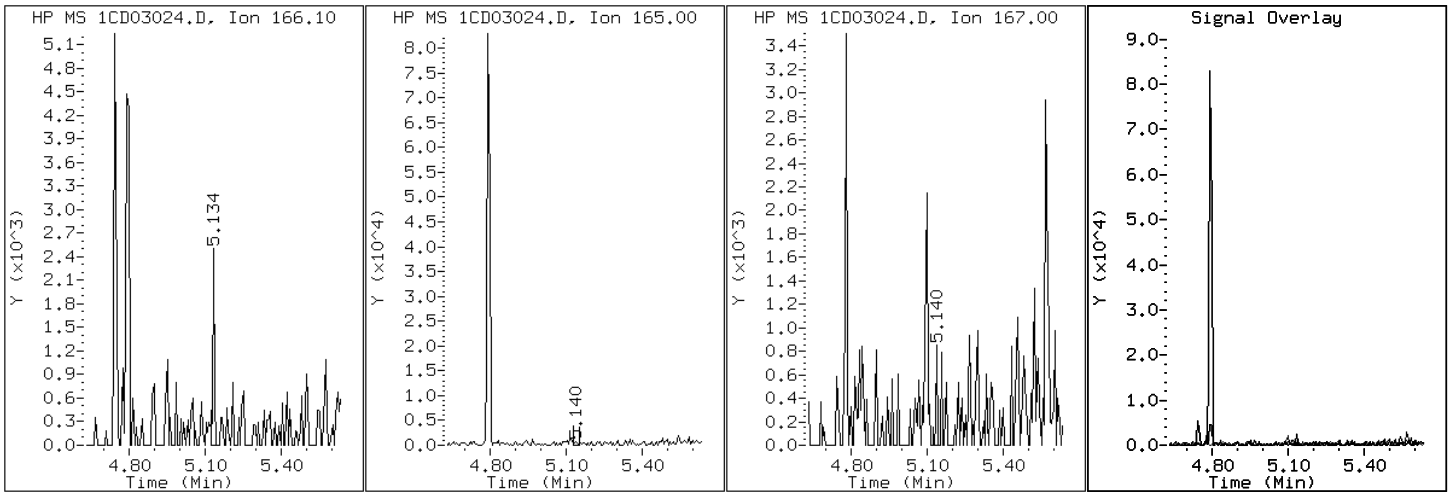
Data File: 1CD03024.D

Date: 03-APR-2013 18:19

Client ID: CV0506B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-20-b Operator: SCC

9 Fluorene



Data File: 1CD03024.D

Date: 03-APR-2013 18:19

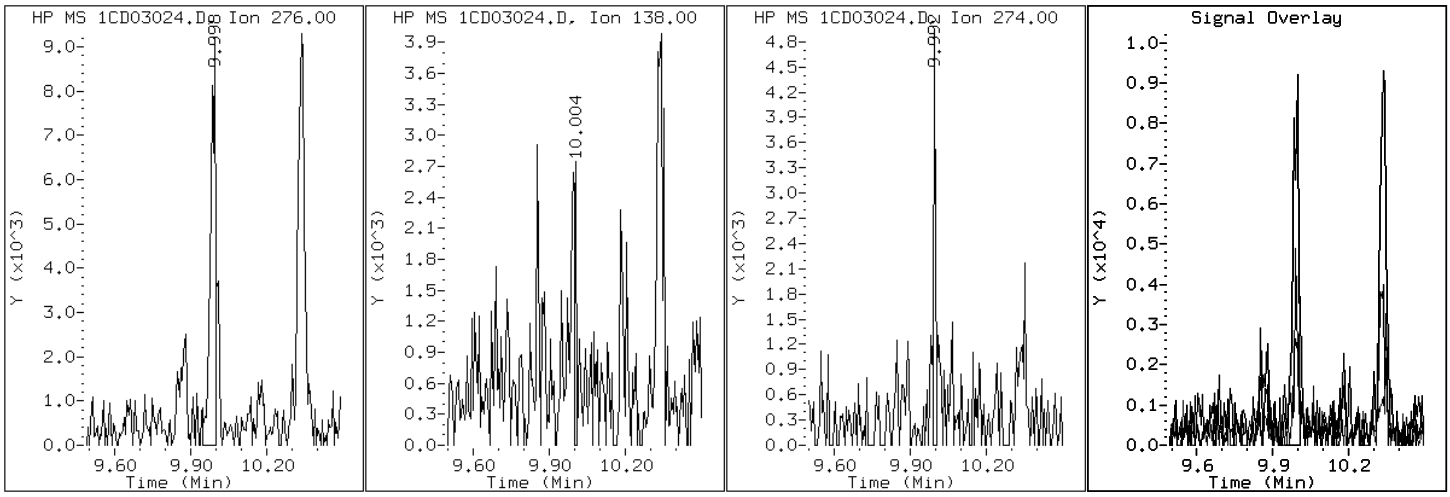
Client ID: CV0506B-CS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-20-b

Operator: SCC

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



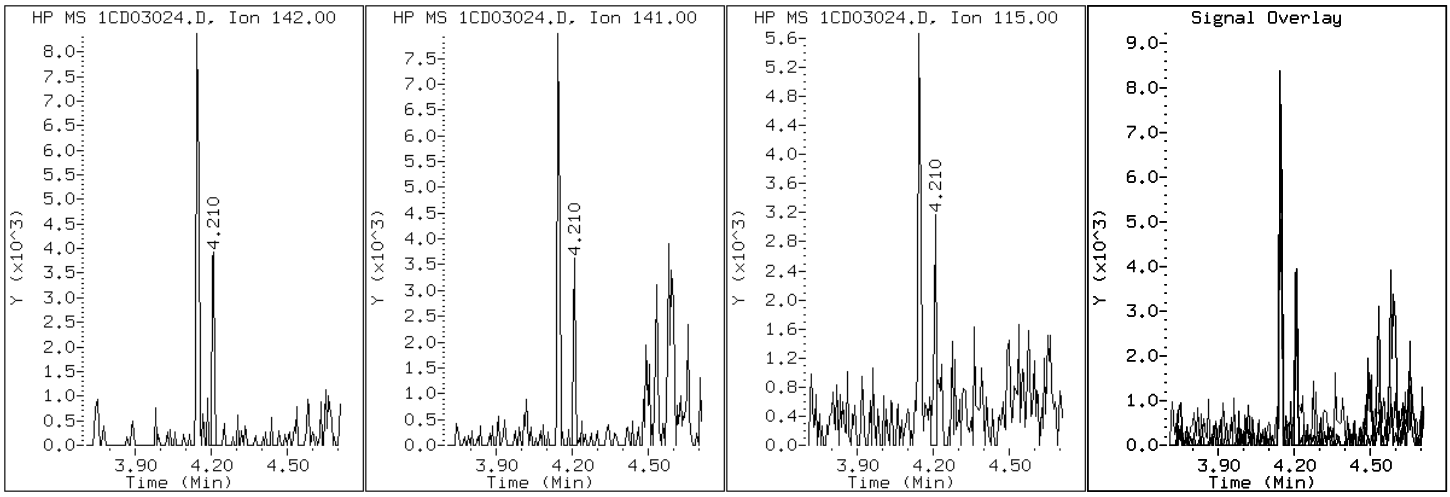
Data File: 1CD03024.D

Date: 03-APR-2013 18:19

Client ID: CV0506B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-20-b Operator: SCC

4 1-Methylnaphthalene



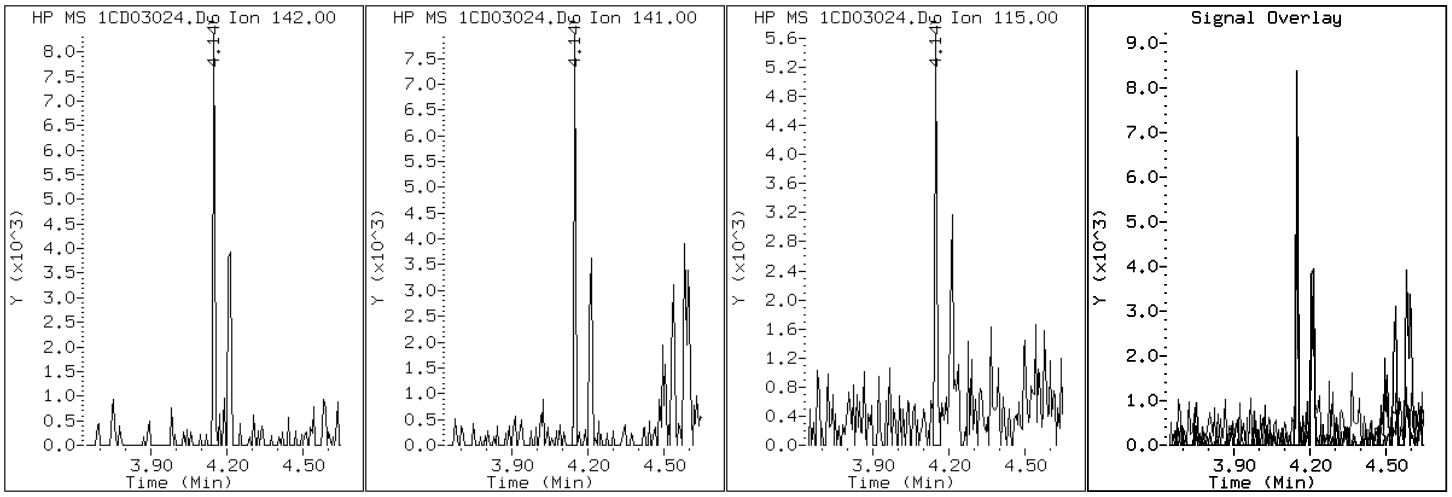
Data File: 1CD03024.D

Date: 03-APR-2013 18:19

Client ID: CV0506B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-20-b Operator: SCC

3 2-Methylnaphthalene



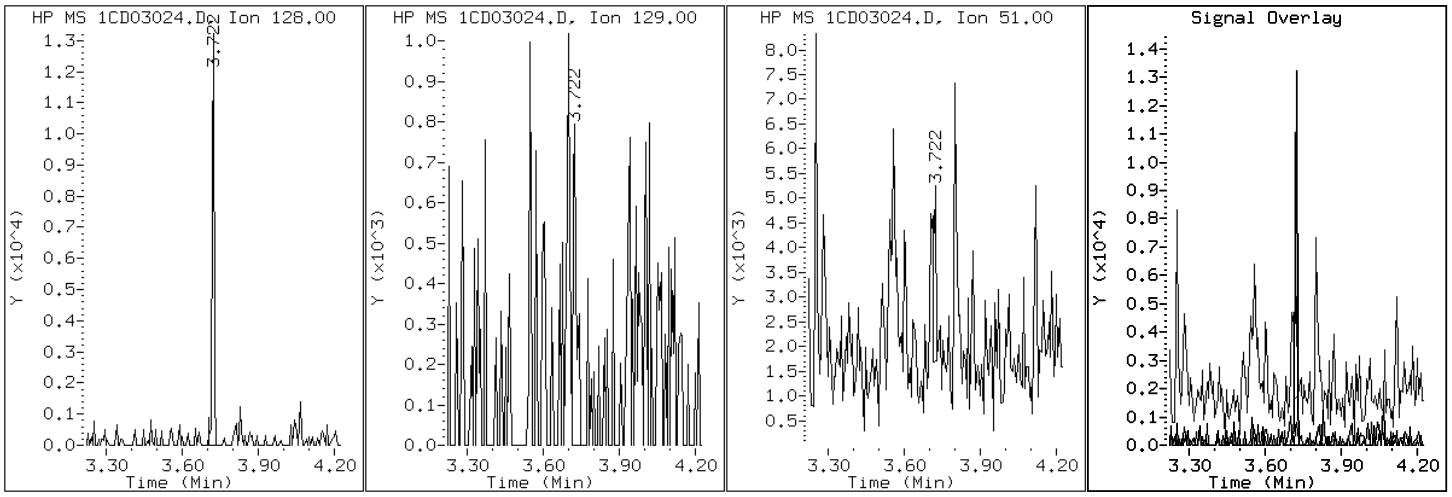
Data File: 1CD03024.D

Date: 03-APR-2013 18:19

Client ID: CV0506B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-20-b Operator: SCC

2 Naphthalene



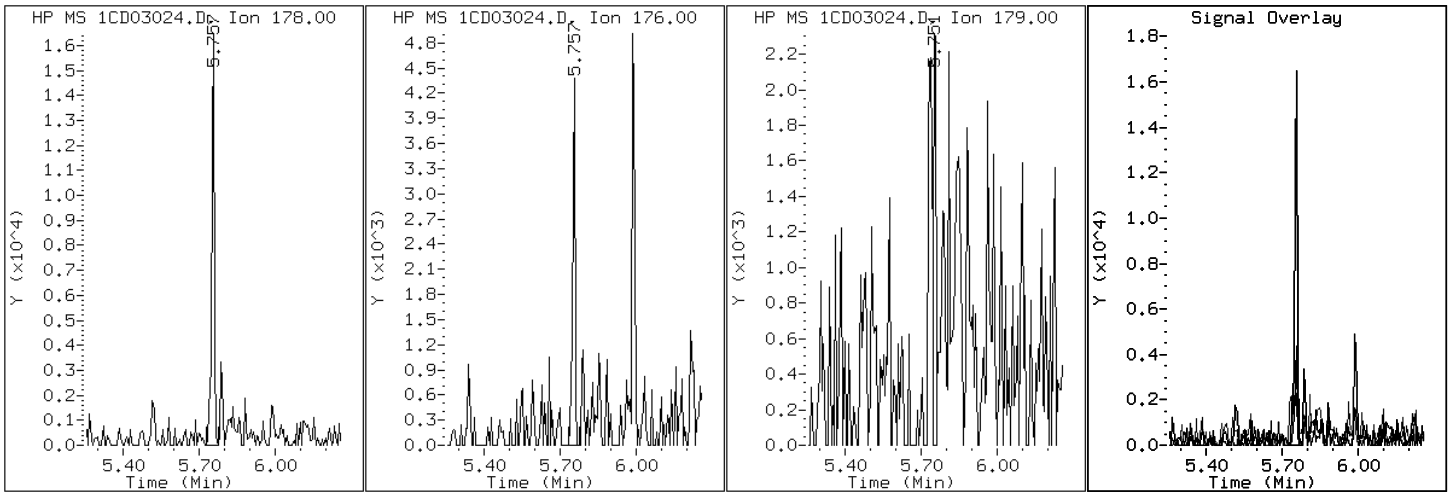
Data File: 1CD03024.D

Date: 03-APR-2013 18:19

Client ID: CV0506B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-20-b Operator: SCC

11 Phenanthrene



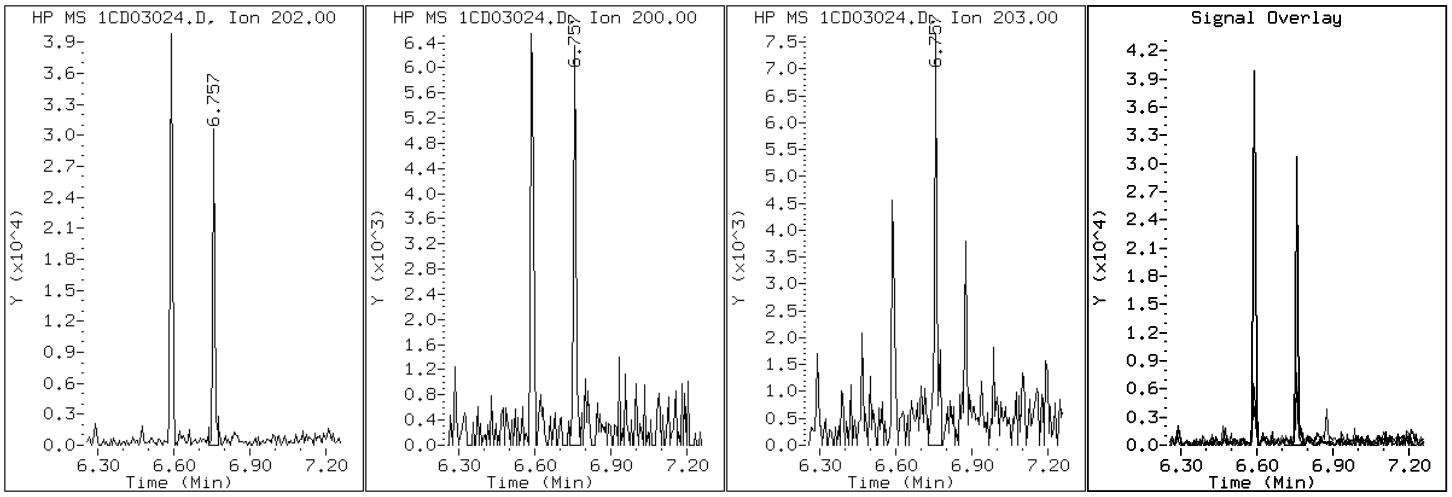
Data File: 1CD03024.D

Date: 03-APR-2013 18:19

Client ID: CV0506B-CS Instrument: BSMC5973.i

Sample Info: 680-88766-a-20-b Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD03024.D
Inj. Date and Time: 03-APR-2013 18:19
Instrument ID: BSMC5973.i
Client ID: CV0506B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/05/2013

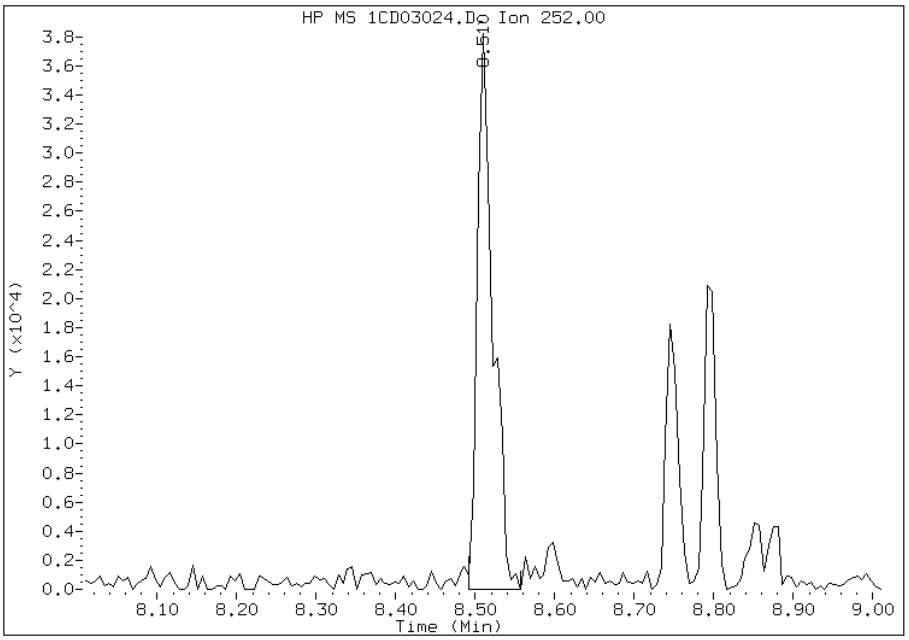
Processing Integration Results

RT: 8.51

Response: 52148

Amount: 2

Conc: 228



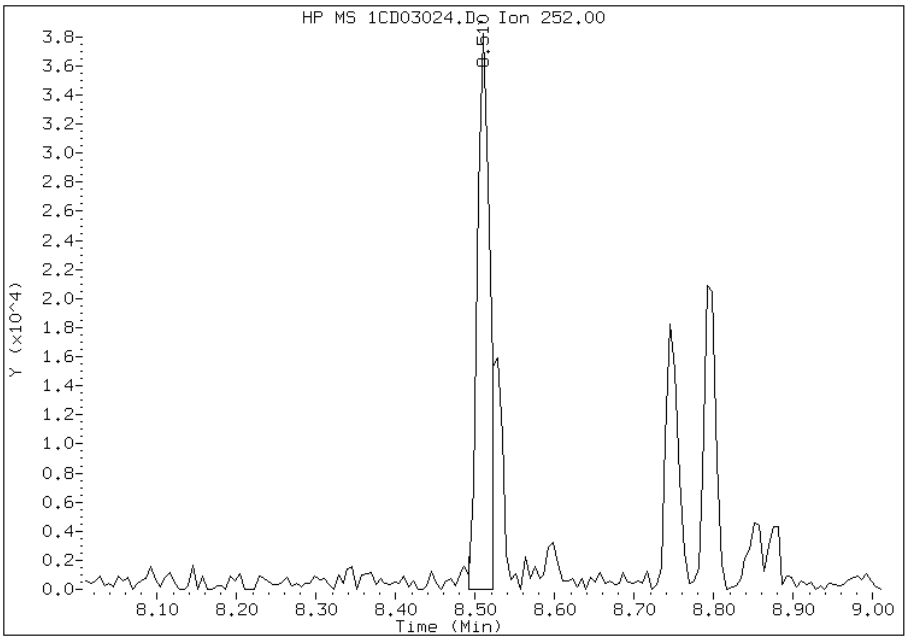
Manual Integration Results

RT: 8.51

Response: 41310

Amount: 2

Conc: 181



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 09:52
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD03024.D
Inj. Date and Time: 03-APR-2013 18:19
Instrument ID: BSMC5973.i
Client ID: CV0506B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/05/2013

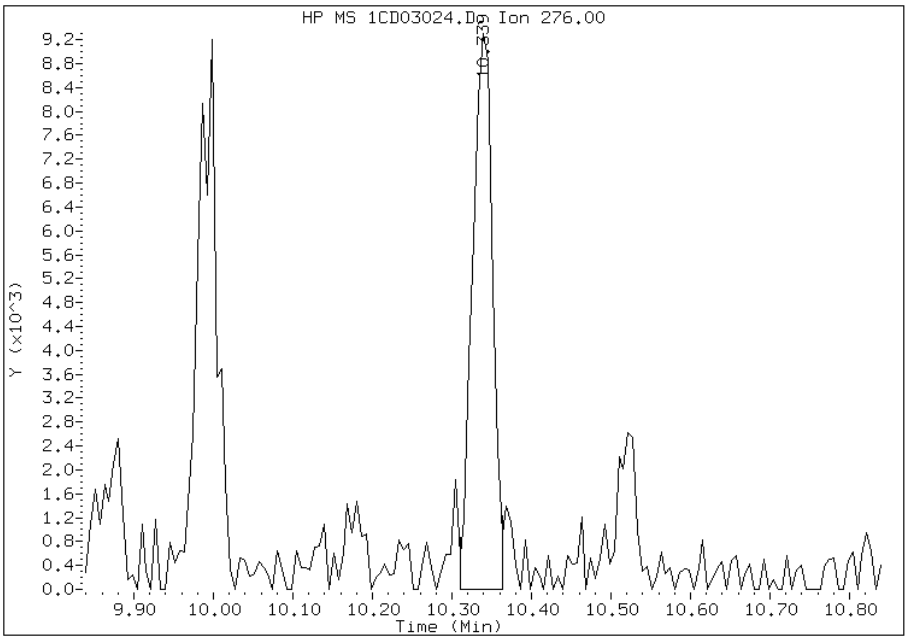
Processing Integration Results

RT: 10.34

Response: 16302

Amount: 1

Conc: 78



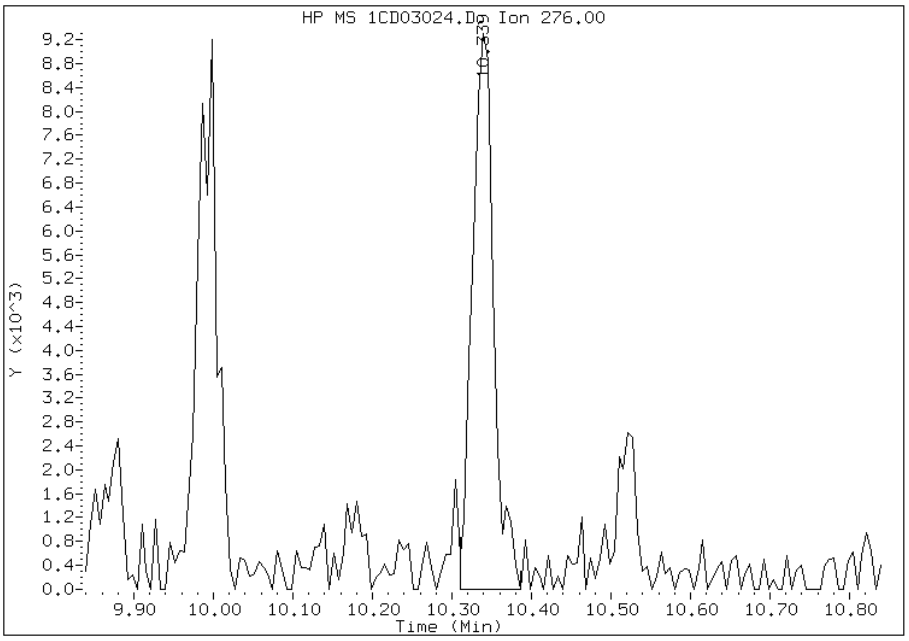
Manual Integration Results

RT: 10.34

Response: 17337

Amount: 1

Conc: 83



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 09:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD03024.D
Inj. Date and Time: 03-APR-2013 18:19
Instrument ID: BSMC5973.i
Client ID: CV0506B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/05/2013

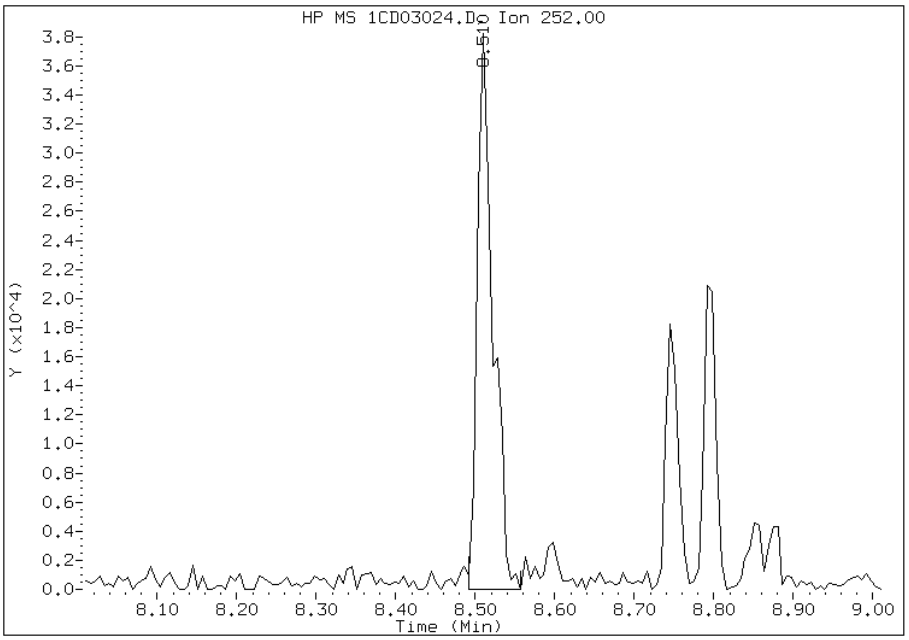
Processing Integration Results

RT: 8.51

Response: 52148

Amount: 2

Conc: 236



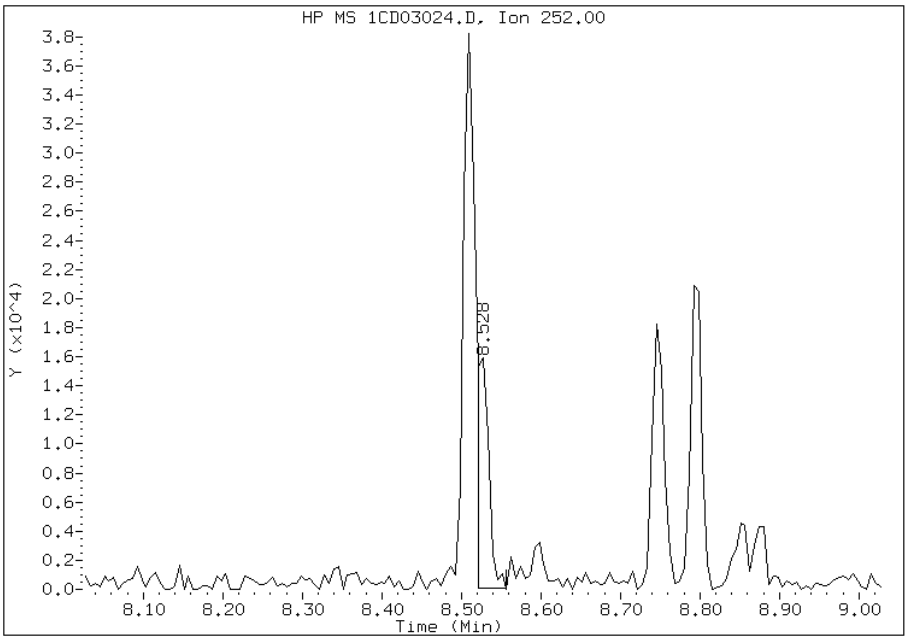
Manual Integration Results

RT: 8.53

Response: 16091

Amount: 1

Conc: 73



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 09:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD03024.D
Inj. Date and Time: 03-APR-2013 18:19
Instrument ID: BSMC5973.i
Client ID: CV0506B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

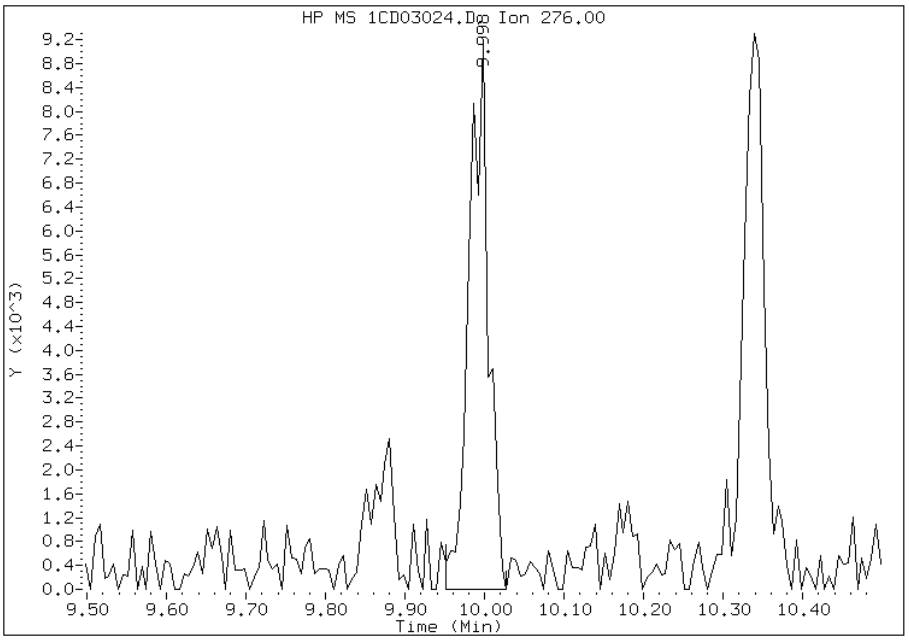
Processing Integration Results

RT: 10.00

Response: 15730

Amount: 1

Conc: 77



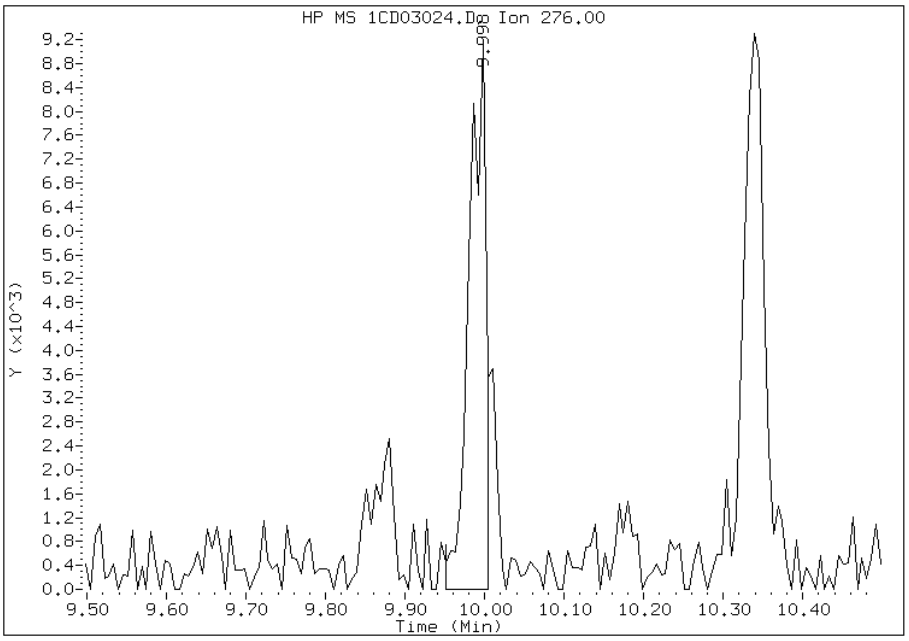
Manual Integration Results

RT: 10.00

Response: 13675

Amount: 1

Conc: 67



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 09:52
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-1 Analy Batch No.: 136048

SDG No.: 68088766-1

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

Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibration ID: 2859

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136048/5	1CD02005.D
Level 2	IC 660-136048/6	1CD02006.D
Level 3	IC 660-136048/7	1CD02007.D
Level 4	IC 660-136048/8	1CD02008.D
Level 5	ICIS 660-136048/9	1CD02009.D
Level 6	IC 660-136048/10	1CD02010.D
Level 7	IC 660-136048/11	1CD02011.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	0.9951 1.0462	0.9249 1.0491	1.1511	1.0146	1.0107	Ave		1.0274			0.0000	6.7		15.0			
2-Methylnaphthalene	0.7586 0.6820	0.6817 0.7025	0.6887	0.7485	0.6335	Ave		0.6994			0.0000	6.1		15.0			
1-Methylnaphthalene	0.7248 0.6605	0.4518 0.6576	0.6481	0.6089	0.6533	Ave		0.6293			0.0000	13.6		15.0			
Acenaphthylene	1.4345 1.7430	1.5801 1.7453	1.7015	1.6743	1.7098	Ave		1.6555			0.0000	6.8		15.0			
Acenaphthene	0.8041 1.0063	1.3709 1.0300	0.9518	0.9544	1.0574	Lin		1.0254			0.0000				0.9993		0.9900
Fluorene	1.2800 1.3623	1.5080 1.3691	1.4076	1.2955	1.3459	Ave		1.3669			0.0000	5.6		15.0			
Phenanthrene	1.2753 1.1465	1.1377 1.2101	1.1311	1.1382	1.1160	Ave		1.1650			0.0000	4.9		15.0			
Anthracene	1.2299 1.2077	1.1082 1.2343	1.1512	1.1740	1.1613	Ave		1.1810			0.0000	3.9		15.0			
Carbazole	0.9389 1.0577	0.8968 1.0652	1.0685	0.9845	1.0709	Ave		1.0118			0.0000	7.1		15.0			
Fluoranthene	1.0844 1.3160	1.1991 1.4023	1.3527	1.3181	1.3335	Ave		1.2866			0.0000	8.4		15.0			
Pyrene	1.0454 1.1504	1.0946 1.1474	1.1166	1.0638	1.1380	Ave		1.1080			0.0000	3.8		15.0			
Benzo[a]anthracene	1.9586 1.1436	1.3015 1.1642	1.1246	1.1267	1.1237	Lin	0.0034	1.1590			0.0000				0.9997		0.9900
Chrysene	1.0137 1.1434	1.2130 1.1619	1.2029	1.1145	1.1295	Ave		1.1398			0.0000	5.8		15.0			
Benzo[b]fluoranthene	1.4007 1.0698	0.9300 1.1884	1.1544	1.1244	1.0480	Ave		1.1308			0.0000	12.9		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-1 Analy Batch No.: 136048

SDG No.: 68088766-1

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

Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibration ID: 2859

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	0.9952 1.1459	1.0465 1.1495	1.1058	1.1151	1.0979	Ave		1.0937			0.0000	5.1		15.0			
Benzo[a]pyrene	1.2128 1.0446	0.9589 1.1556	1.0227	1.0341	1.0238	Ave		1.0647			0.0000	8.2		15.0			
Indeno[1,2,3-cd]pyrene	1.2338 1.0436	0.9049 1.0226	1.0384	0.9595	0.8756	Ave		1.0112			0.0000	11.7		15.0			
Dibenz(a,h)anthracene	0.9208 0.9567	0.9397 0.9834	0.8833	0.9304	0.9246	Ave		0.9341			0.0000	3.3		15.0			
Benzo[g,h,i]perylene	1.0683 1.0751	0.9692 1.0455	1.0646	1.0048	0.9970	Ave		1.0321			0.0000	4.0		15.0			
o-Terphenyl	0.8162 0.5958	0.5068 0.6604	0.5759	0.6060	0.6022	Lin	0.0181	0.6529			0.0000				0.9966		0.9900

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.: 680-88766-1 Analy Batch No.: 136048

SDG No.: 68088766-1

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

Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibration ID: 2859

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136048/5	1CD02005.D
Level 2	IC 660-136048/6	1CD02006.D
Level 3	IC 660-136048/7	1CD02007.D
Level 4	IC 660-136048/8	1CD02008.D
Level 5	ICIS 660-136048/9	1CD02009.D
Level 6	IC 660-136048/10	1CD02010.D
Level 7	IC 660-136048/11	1CD02011.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	2264 350333	10440 668649	65815	121970	253190	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	1726 228375	7695 447751	39376	89978	158694	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	1649 221182	5100 419135	37056	73198	163647	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	2387 423924	12563 814053	70473	148174	308909	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Lin	1338 244735	10900 480392	39421	84460	191043	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	2130 331328	11990 638557	58298	114648	243174	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	3900 529536	16838 1077014	88442	194036	392252	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	3761 557837	16401 1098599	90016	200131	408192	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	2871 488550	13272 948101	83549	167822	376402	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	3316 607836	17746 1248081	105772	224705	468708	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	4087 663294	20532 1360548	109963	236267	498076	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Lin	7657 659379	24413 1380443	110756	250220	491852	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	3963 659226	22752 1377767	118460	247512	494376	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	5890 671785	19731 1443812	127315	261073	494109	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	4185 719552	22203 1396501	121957	258924	517620	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.: 680-88766-1 Analy Batch No.: 136048

SDG No.: 68088766-1

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

Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibration ID: 2859

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	5100 655944	20343 1403971	112782	240110	482722	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	5188 655344	19198 1242391	114519	222795	412839	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	3872 600720	19937 1194691	97409	216036	435940	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	4492 675124	20561 1270187	117403	233308	470085	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Lin	2496 275212	7501 587824	45027	103309	211673	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02005.D
Lab Smp Id: IC1
Inj Date : 02-APR-2013 13:26
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC1
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	455021	40.0000	
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	332800	40.0000	
* 10 Phenanthrene-d10	188	5.757	5.757	(1.000)	611597	40.0000	
$ 14 o-Terphenyl	230	6.004	6.004	(1.043)	2496	0.20000	0.2618
* 18 Chrysene-d12	240	7.704	7.704	(1.000)	781900	40.0000	
* 23 Perylene-d12	264	8.909	8.909	(1.000)	841000	40.0000	(H)
2 Naphthalene	128	3.727	3.727	(1.005)	2264	0.20000	0.1937
3 2-Methylnaphthalene	142	4.157	4.157	(1.120)	1726	0.20000	0.2169
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	1649	0.20000	0.2303
5 Acenaphthylene	152	4.716	4.716	(0.982)	2387	0.20000	0.1733
7 Acenaphthene	154	4.821	4.821	(1.004)	1338	0.20000	0.1568(Q)
9 Fluorene	166	5.145	5.145	(1.071)	2130	0.20000	0.1872
11 Phenanthrene	178	5.768	5.768	(1.002)	3900	0.20000	0.2189
12 Anthracene	178	5.804	5.804	(1.008)	3761	0.20000	0.2082
13 Carbazole	167	5.915	5.915	(1.028)	2871	0.20000	0.1855
15 Fluoranthene	202	6.604	6.604	(1.147)	3316	0.20000	0.1685
16 Pyrene	202	6.774	6.774	(0.879)	4087	0.20000	0.1886
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	7657	0.20000	0.3066
19 Chrysene	228	7.727	7.727	(1.003)	3963	0.20000	0.1778
20 Benzo(b)fluoranthene	252	8.562	8.562	(0.961)	5890	0.20000	0.2477(H)
21 Benzo(k)fluoranthene	252	8.586	8.586	(0.964)	4185	0.20000	0.1819(H)
22 Benzo(a)pyrene	252	8.851	8.851	(0.993)	5100	0.20000	0.2278(H)
24 Indeno(1,2,3-cd)pyrene	276	10.062	10.062	(1.129)	5188	0.20000	0.2440
25 Dibenzo(a,h)anthracene	278	10.086	10.086	(1.132)	3872	0.20000	0.1971(MH)
26 Benzo(g,h,i)perylene	276	10.415	10.415	(1.169)	4492	0.20000	0.2070(H)

QC Flag Legend

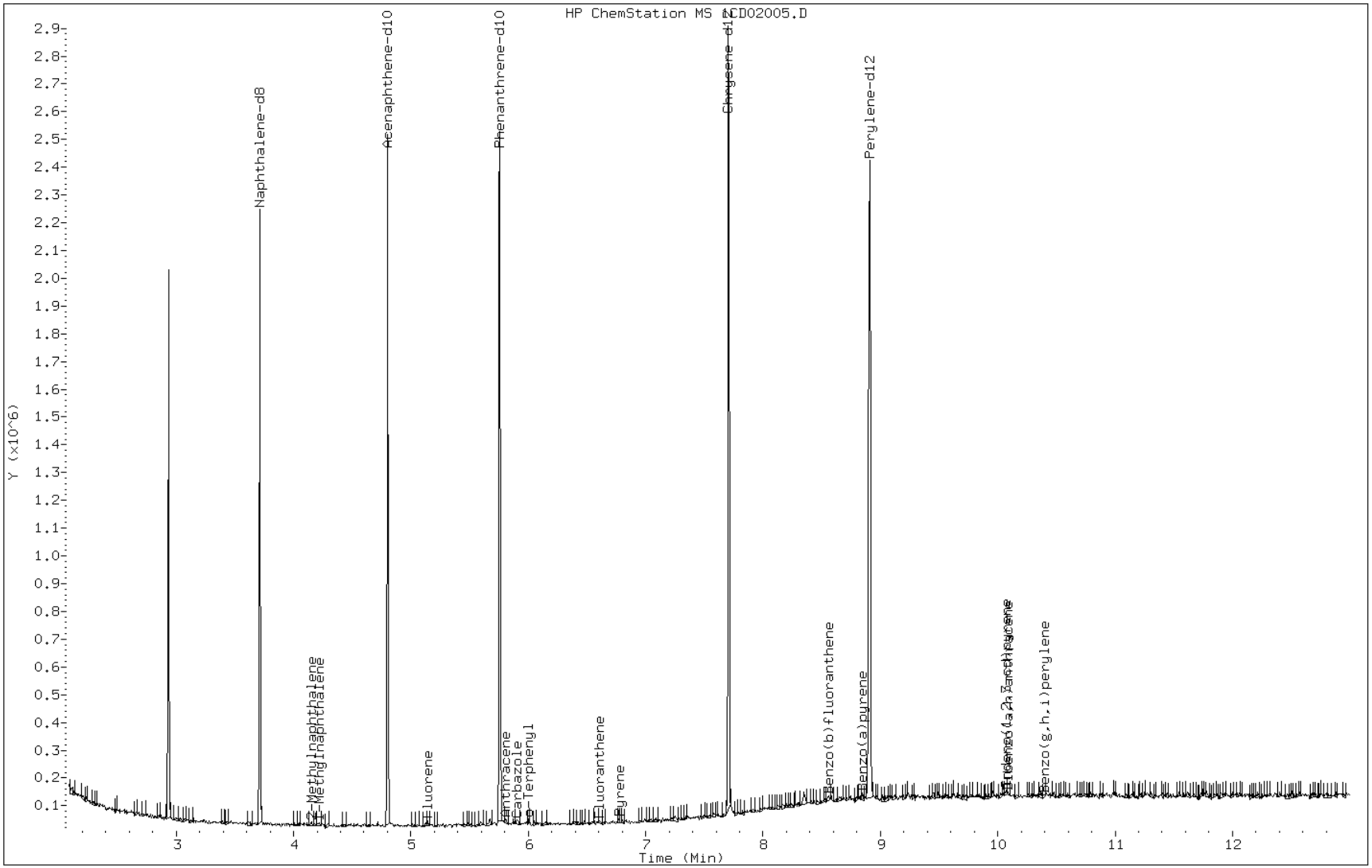
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD02005.D

Date: 02-APR-2013 13:26

Client ID: Instrument: BSMC5973.i

Sample Info: IC1 Operator: SCC



Manual Integration Report

Data File: 1CD02005.D
Inj. Date and Time: 02-APR-2013 13:26
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/02/2013

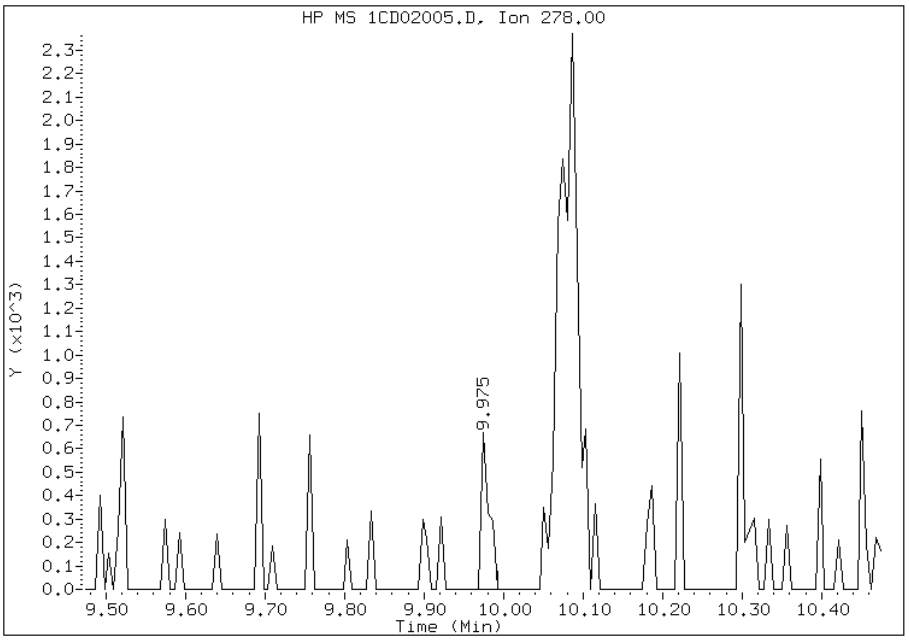
Processing Integration Results

RT: 9.97

Response: 454

Amount: 0

Conc: 0



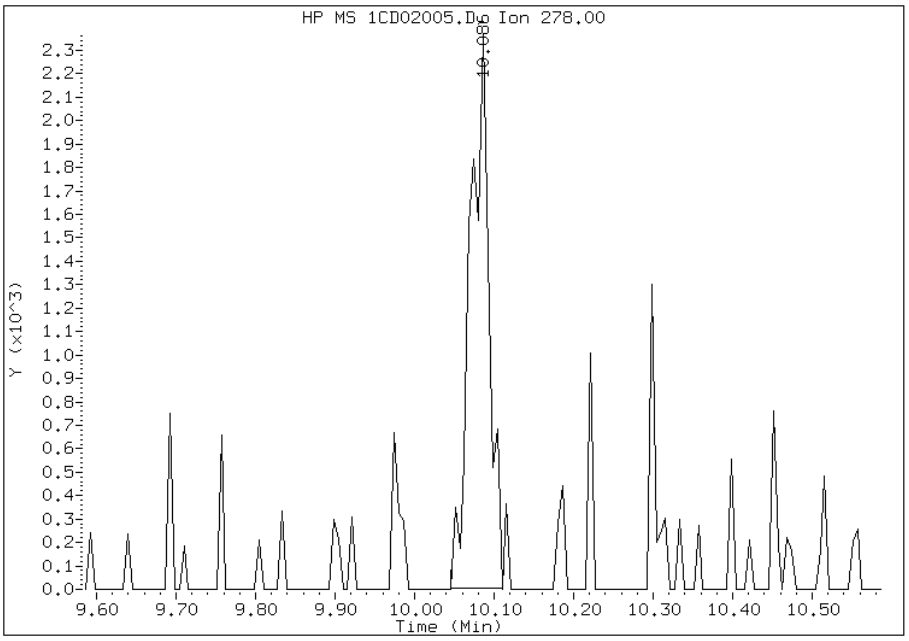
Manual Integration Results

RT: 10.09

Response: 3872

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:44
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02006.D
Lab Smp Id: IC2
Inj Date : 02-APR-2013 13:44
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC2
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 13:26 Cal File: 1CD02005.D
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	451517	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	318036	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	591987	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	7501	1.00000	0.8130
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	750291	40.0000	(H)
* 23 Perylene-d12	264	8.862	8.862	(1.000)	848618	40.0000	(H)
2 Naphthalene	128	3.727	3.727	(1.005)	10440	1.00000	0.9002
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	7695	1.00000	0.9747
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	5100	1.00000	0.7179(Q)
5 Acenaphthylene	152	4.710	4.710	(0.982)	12563	1.00000	0.9544
7 Acenaphthene	154	4.821	4.821	(1.005)	10900	1.00000	1.3375(Q)
9 Fluorene	166	5.139	5.139	(1.071)	11990	1.00000	1.1032
11 Phenanthrene	178	5.762	5.762	(1.003)	16838	1.00000	0.9766
12 Anthracene	178	5.798	5.798	(1.009)	16401	1.00000	0.9383
13 Carbazole	167	5.904	5.904	(1.028)	13272	1.00000	0.8863
15 Fluoranthene	202	6.598	6.598	(1.148)	17746	1.00000	0.9319
16 Pyrene	202	6.762	6.762	(0.880)	20532	1.00000	0.9878(H)
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	24413	1.00000	1.0187(H)
19 Chrysene	228	7.704	7.704	(1.002)	22752	1.00000	1.0641
20 Benzo(b)fluoranthene	252	8.521	8.521	(0.962)	19731	1.00000	0.8224(H)
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.963)	22203	1.00000	0.9568(H)
22 Benzo(a)pyrene	252	8.809	8.809	(0.994)	20343	1.00000	0.9006(H)
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.009	(1.129)	19198	1.00000	0.8948(MH)
25 Dibenzo(a,h)anthracene	278	10.027	10.027	(1.131)	19937	1.00000	1.0060(H)
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	20561	1.00000	0.9390(H)

QC Flag Legend

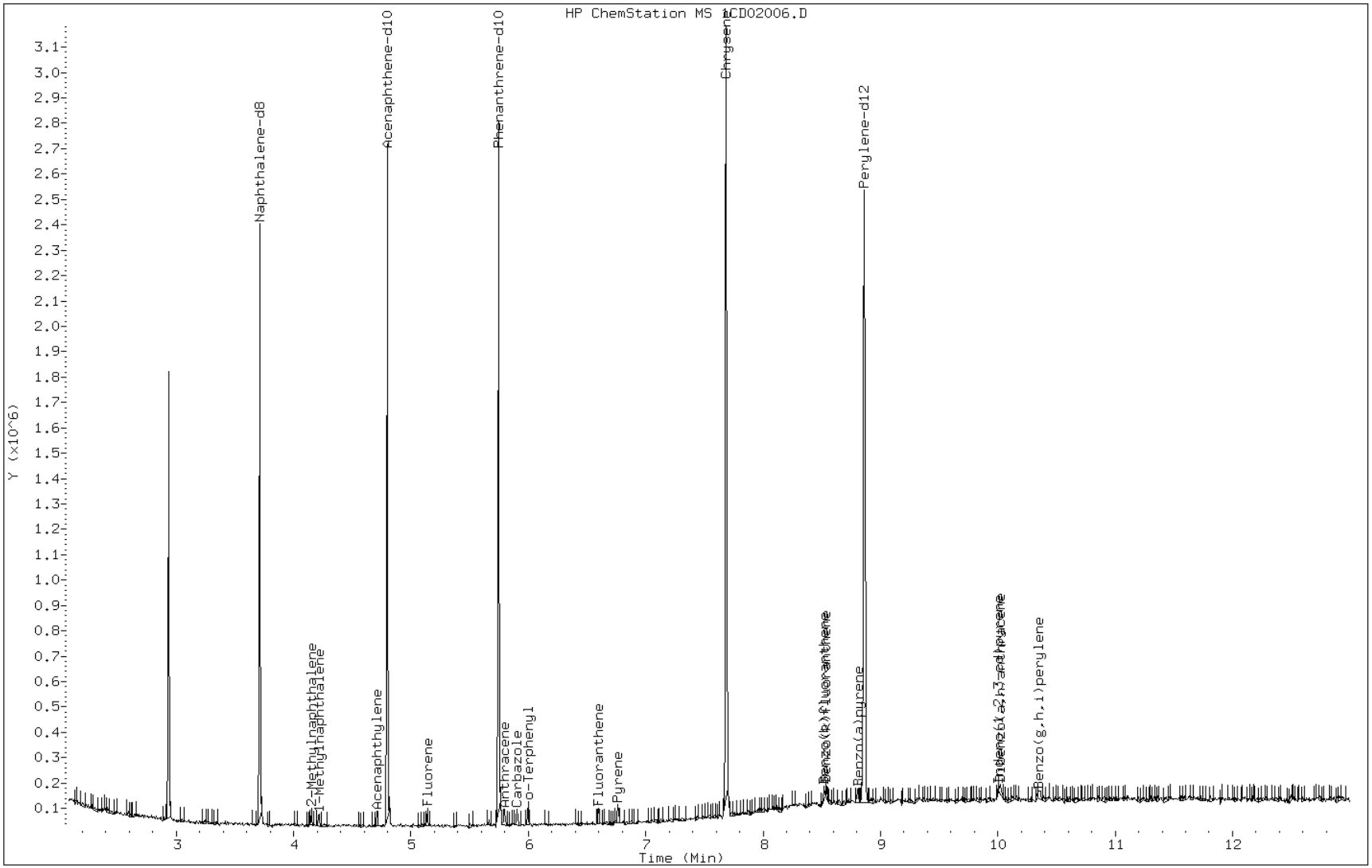
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD02006.D

Date: 02-APR-2013 13:44

Client ID: Instrument: BSMC5973.i

Sample Info: IC2 Operator: SCC



Manual Integration Report

Data File: 1CD02006.D
Inj. Date and Time: 02-APR-2013 13:44
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

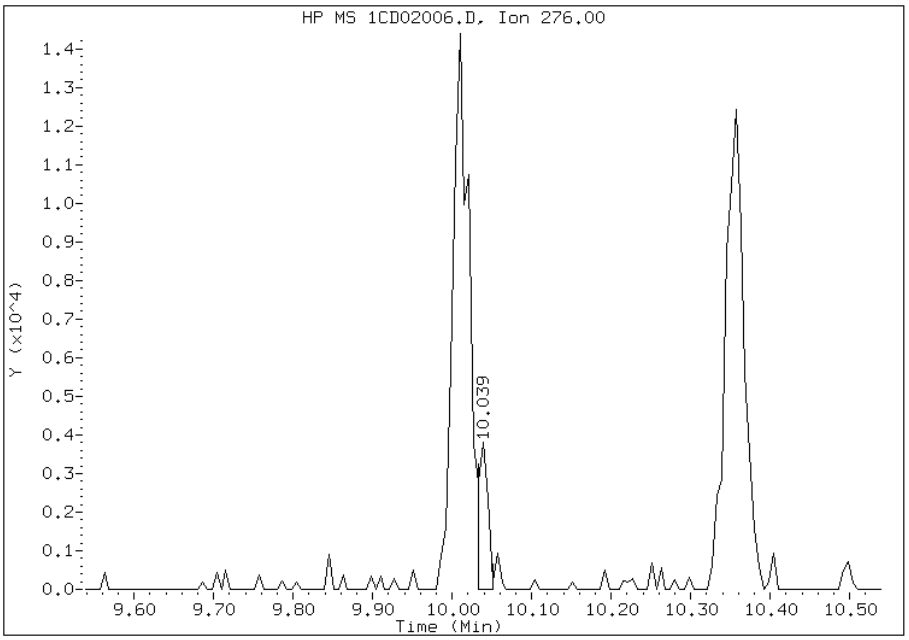
Processing Integration Results

RT: 10.04

Response: 3225

Amount: 0

Conc: 0



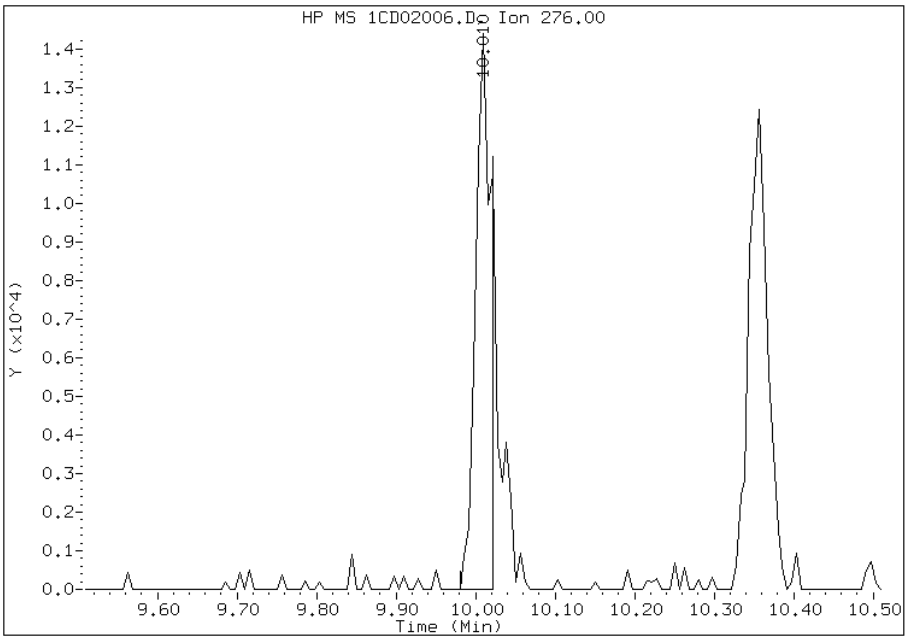
Manual Integration Results

RT: 10.01

Response: 19198

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:45
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02007.D
Lab Smp Id: IC3
Inj Date : 02-APR-2013 14:02
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC3
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 13:44 Cal File: 1CD02006.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	457408	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	331342	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	625535	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	45027	5.00000	4.6190
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	787858	40.0000	
* 23 Perylene-d12	264	8.856	8.856	(1.000)	882270	40.0000	(H)
2 Naphthalene	128	3.727	3.727	(1.005)	65815	5.00000	5.6020
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	39376	5.00000	4.9236
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	37056	5.00000	5.1494(Q)
5 Acenaphthylene	152	4.710	4.710	(0.982)	70473	5.00000	5.1389
7 Acenaphthene	154	4.821	4.821	(1.005)	39421	5.00000	4.6430
9 Fluorene	166	5.139	5.139	(1.071)	58298	5.00000	5.1486
11 Phenanthrene	178	5.763	5.763	(1.003)	88442	5.00000	4.8545
12 Anthracene	178	5.792	5.792	(1.008)	90016	5.00000	4.8741
13 Carbazole	167	5.904	5.904	(1.028)	83549	5.00000	5.2803
15 Fluoranthene	202	6.598	6.598	(1.148)	105772	5.00000	5.2570
16 Pyrene	202	6.762	6.762	(0.880)	109963	5.00000	5.0385
17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	110756	5.00000	4.4014
19 Chrysene	228	7.704	7.704	(1.002)	118460	5.00000	5.2764(H)
20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	127315	5.00000	5.1043
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.964)	121957	5.00000	5.0554(H)
22 Benzo(a)pyrene	252	8.804	8.804	(0.994)	112782	5.00000	4.8027(H)
24 Indeno(1,2,3-cd)pyrene	276	10.003	10.003	(1.129)	114519	5.00000	5.1344(MH)
25 Dibenzo(a,h)anthracene	278	10.021	10.021	(1.131)	97409	5.00000	4.7277(H)
26 Benzo(g,h,i)perylene	276	10.345	10.345	(1.168)	117403	5.00000	5.1573(H)

QC Flag Legend

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

Data File: 1CD02007.D

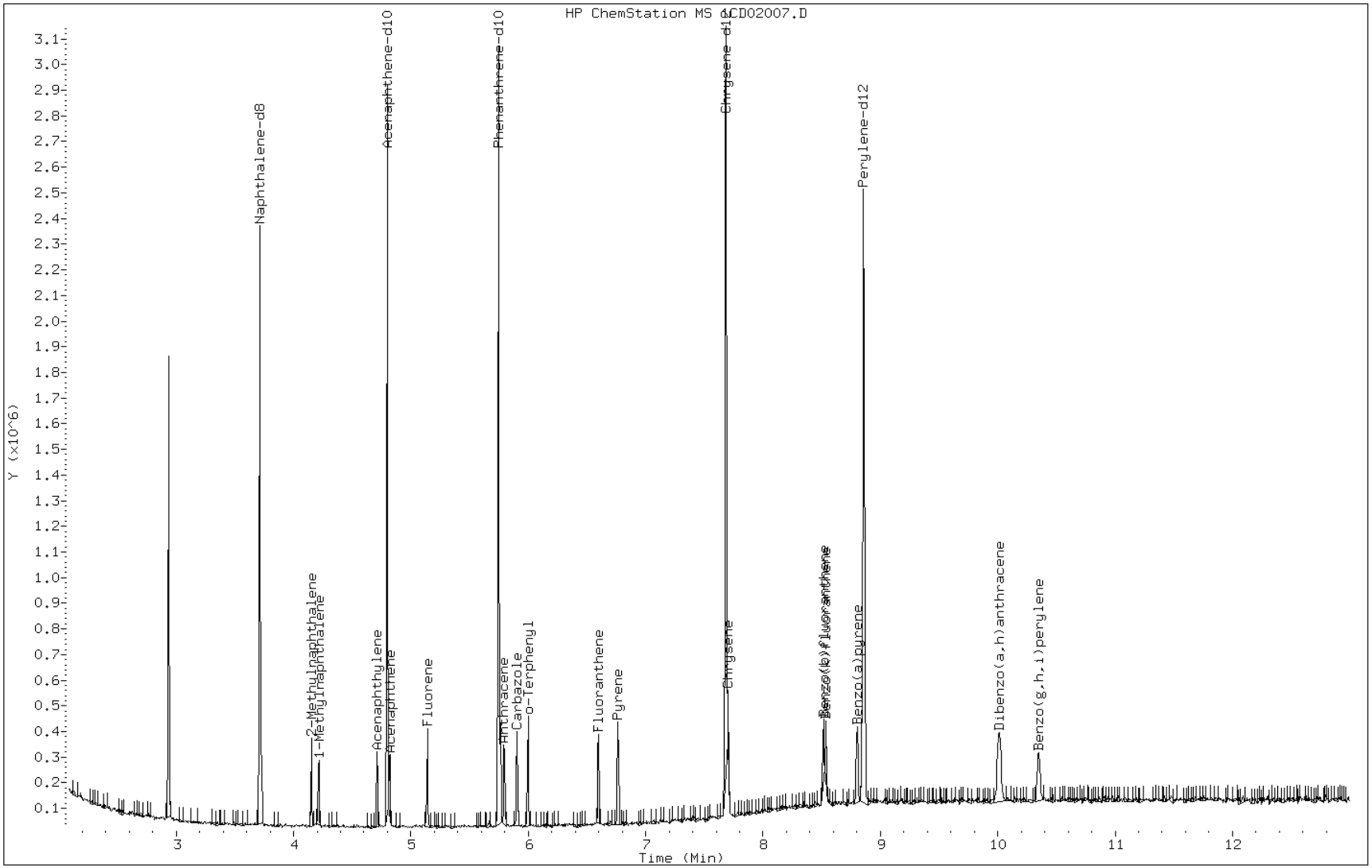
Date: 02-APR-2013 14:02

Client ID:

Instrument: BSMC5973.i

Sample Info: IC3

Operator: SCC



Manual Integration Report

Data File: 1CD02007.D
Inj. Date and Time: 02-APR-2013 14:02
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

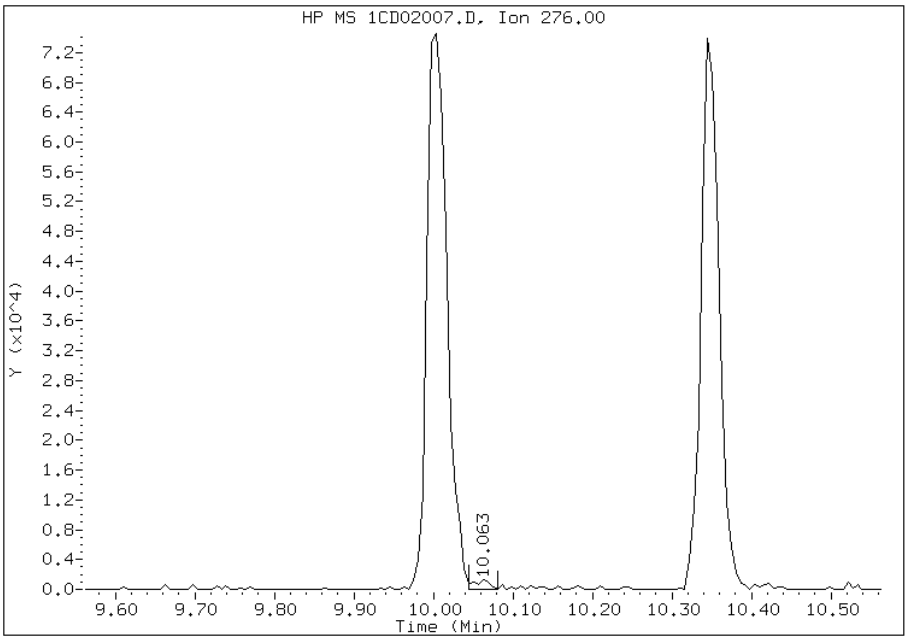
Processing Integration Results

RT: 10.06

Response: 1809

Amount: 0

Conc: 0



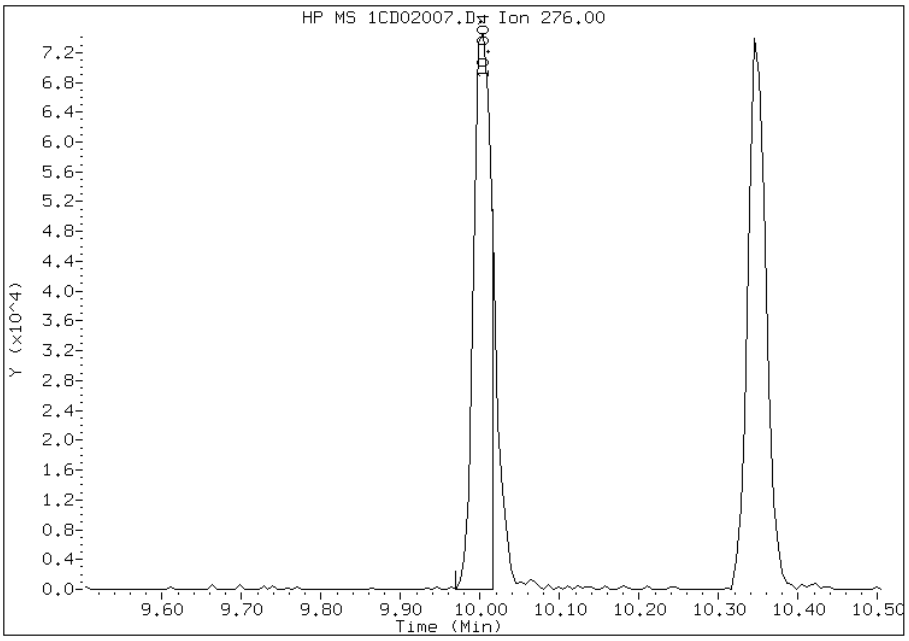
Manual Integration Results

RT: 10.00

Response: 114519

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:48
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02008.D
Lab Smp Id: IC4
Inj Date : 02-APR-2013 14:20
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC4
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 14:02 Cal File: 1CD02007.D
Als bottle: 8 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	480844	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	353988	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	681887	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	103309	10.0000	9.7219
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	888354	40.0000	
* 23 Perylene-d12	264	8.856	8.856	(1.000)	928754	40.0000	
2 Naphthalene	128	3.727	3.727	(1.005)	121970	10.0000	9.8758
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	89978	10.0000	10.7026
4 1-Methylnaphthalene	142	4.215	4.215	(1.136)	73198	10.0000	9.6761
5 Acenaphthylene	152	4.710	4.710	(0.982)	148174	10.0000	10.1137
7 Acenaphthene	154	4.821	4.821	(1.005)	84460	10.0000	9.3113
9 Fluorene	166	5.139	5.139	(1.071)	114648	10.0000	9.4775
11 Phenanthrene	178	5.762	5.762	(1.003)	194036	10.0000	9.7703
12 Anthracene	178	5.792	5.792	(1.008)	200131	10.0000	9.9409
13 Carbazole	167	5.904	5.904	(1.028)	167822	10.0000	9.7299
15 Fluoranthene	202	6.598	6.598	(1.148)	224705	10.0000	10.2452
16 Pyrene	202	6.762	6.762	(0.880)	236267	10.0000	9.6011
17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	250220	10.0000	8.8188
19 Chrysene	228	7.703	7.703	(1.002)	247512	10.0000	9.7775(H)
20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	261073	10.0000	9.9431(H)
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.964)	258924	10.0000	10.1958(H)
22 Benzo(a)pyrene	252	8.803	8.803	(0.994)	240110	10.0000	9.7131
24 Indeno(1,2,3-cd)pyrene	276	10.003	10.003	(1.129)	222795	10.0000	9.4889(MH)
25 Dibenzo(a,h)anthracene	278	10.021	10.021	(1.131)	216036	10.0000	9.9604
26 Benzo(g,h,i)perylene	276	10.350	10.350	(1.169)	233308	10.0000	9.7359(H)

QC Flag Legend

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

Data File: 1CD02008.D

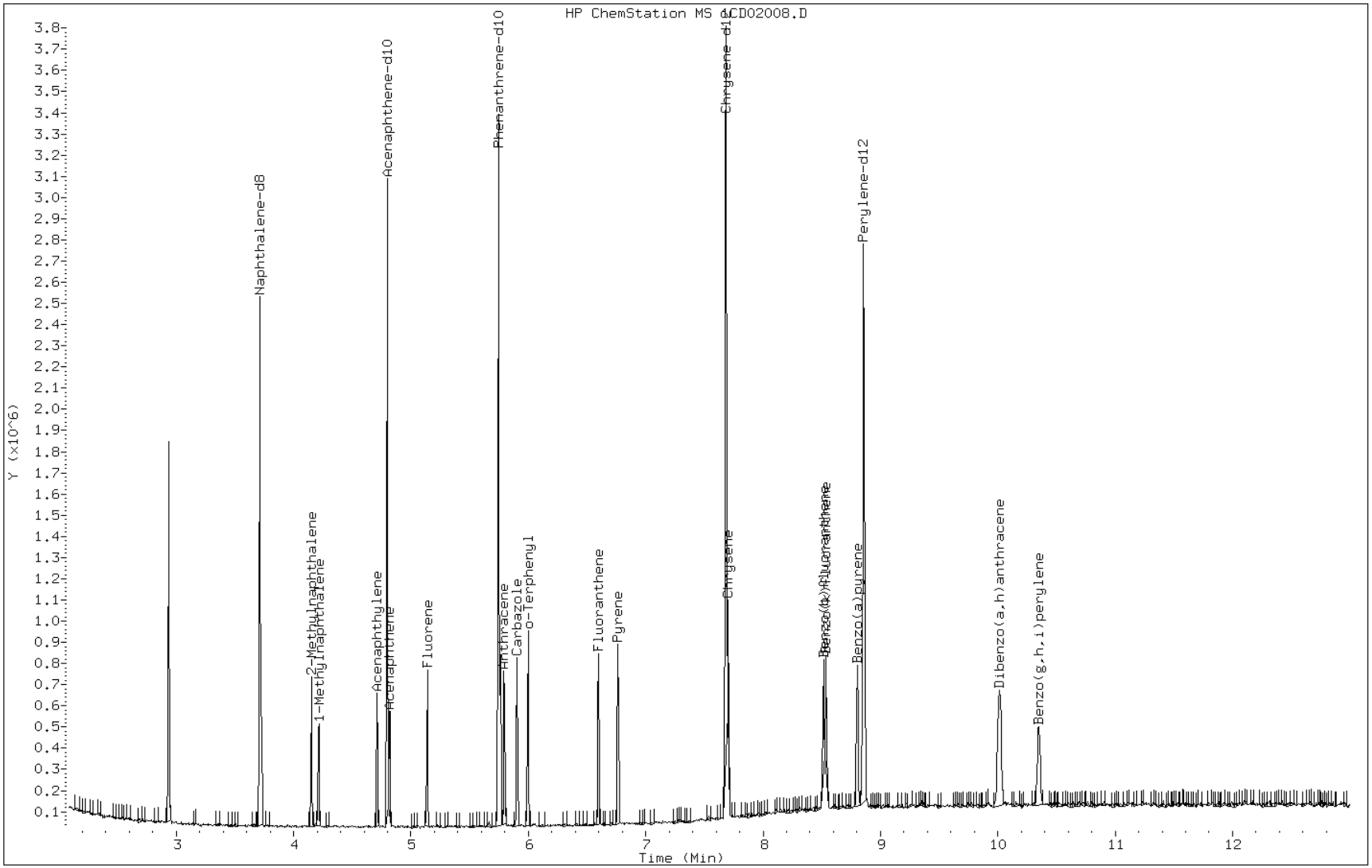
Date: 02-APR-2013 14:20

Client ID:

Instrument: BSMC5973.i

Sample Info: IC4

Operator: SCC



Manual Integration Report

Data File: 1CD02008.D
Inj. Date and Time: 02-APR-2013 14:20
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

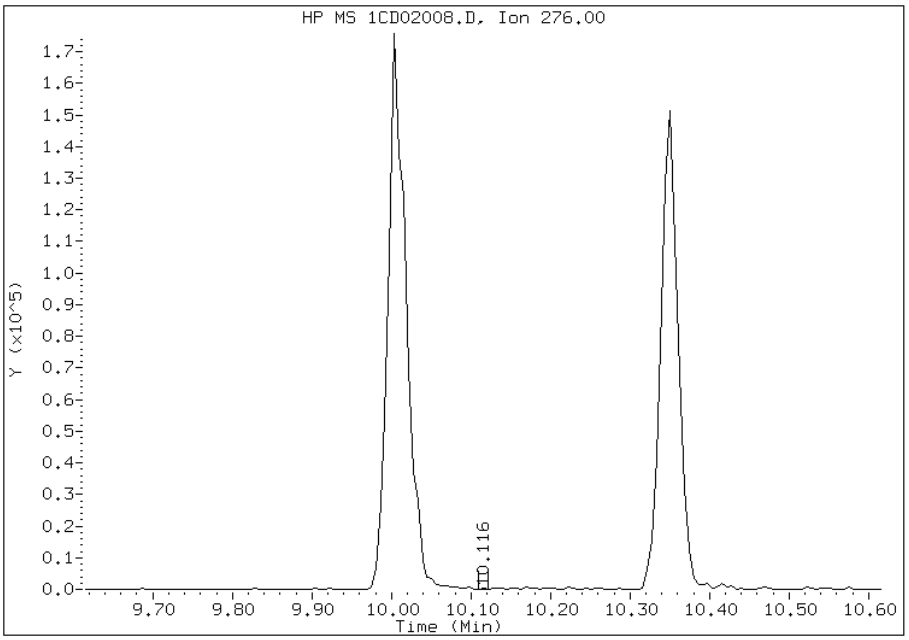
Processing Integration Results

RT: 10.12

Response: 142

Amount: 0

Conc: 0



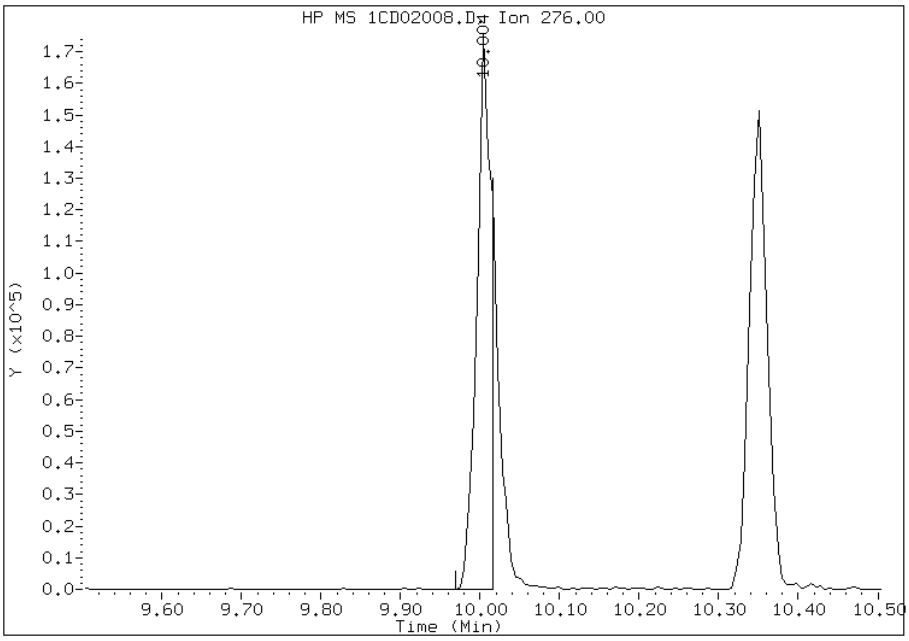
Manual Integration Results

RT: 10.00

Response: 222795

Amount: 9

Conc: 9



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:49
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02009.D
Lab Smp Id: IC5
Inj Date : 02-APR-2013 14:39
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC5
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 14:20 Cal File: 1CD02008.D
Als bottle: 9 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	501011	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	361349	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	702974	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	211673	20.0000	19.3221
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	875378	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	942955	40.0000	
2 Naphthalene	128	3.721	3.721	(1.003)	253190	20.0000	19.6753
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	158694	20.0000	18.1163
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	163647	20.0000	20.7620
5 Acenaphthylene	152	4.710	4.710	(0.982)	308909	20.0000	20.6554
7 Acenaphthene	154	4.821	4.821	(1.005)	191043	20.0000	20.6326
9 Fluorene	166	5.139	5.139	(1.071)	243174	20.0000	19.6928
11 Phenanthrene	178	5.762	5.762	(1.003)	392252	20.0000	19.1586
12 Anthracene	178	5.798	5.798	(1.009)	408192	20.0000	19.6676
13 Carbazole	167	5.904	5.904	(1.028)	376402	20.0000	21.1684
15 Fluoranthene	202	6.598	6.598	(1.148)	468708	20.0000	20.7293
16 Pyrene	202	6.762	6.762	(0.880)	498076	20.0000	20.5403
17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	491852	20.0000	17.5920
19 Chrysene	228	7.704	7.704	(1.002)	494376	20.0000	19.8190
20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	494109	20.0000	18.5350
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.963)	517620	20.0000	20.0758
22 Benzo(a)pyrene	252	8.803	8.803	(0.993)	482722	20.0000	19.2334
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.009	(1.129)	412839	20.0000	17.3182(M)
25 Dibenzo(a,h)anthracene	278	10.021	10.021	(1.131)	435940	20.0000	19.7965
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	470085	20.0000	19.3212

QC Flag Legend

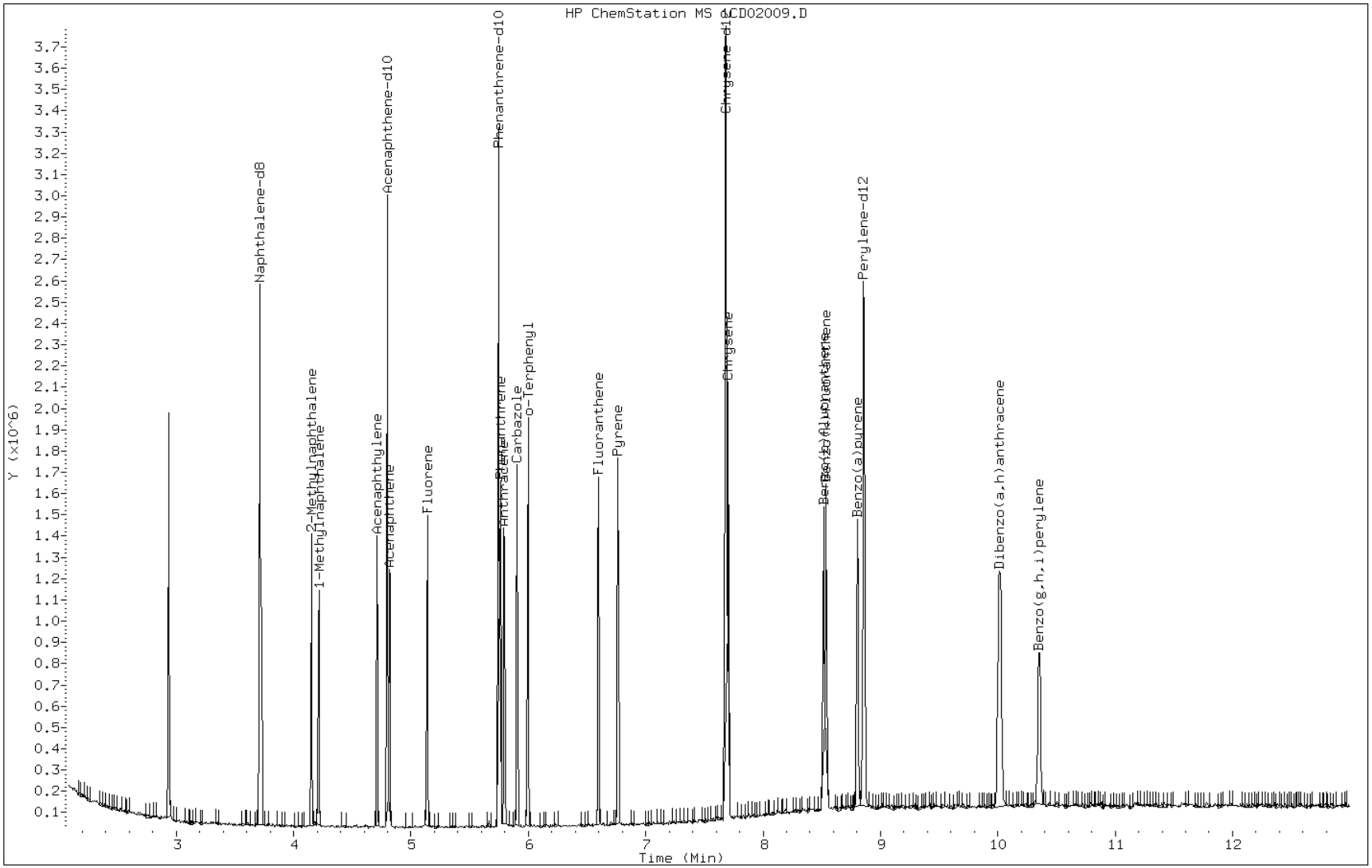
M - Compound response manually integrated.

Data File: 1CD02009.D

Date: 02-APR-2013 14:39

Client ID: Instrument: BSMC5973.i

Sample Info: IC5 Operator: SCC



Manual Integration Report

Data File: 1CD02009.D
Inj. Date and Time: 02-APR-2013 14:39
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

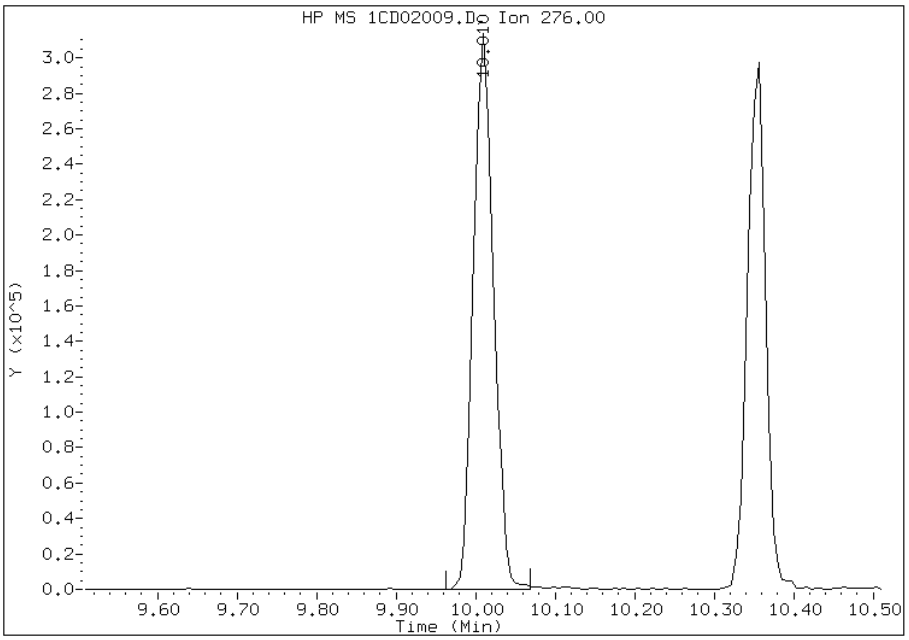
Processing Integration Results

RT: 10.01

Response: 550558

Amount: 32

Conc: 32



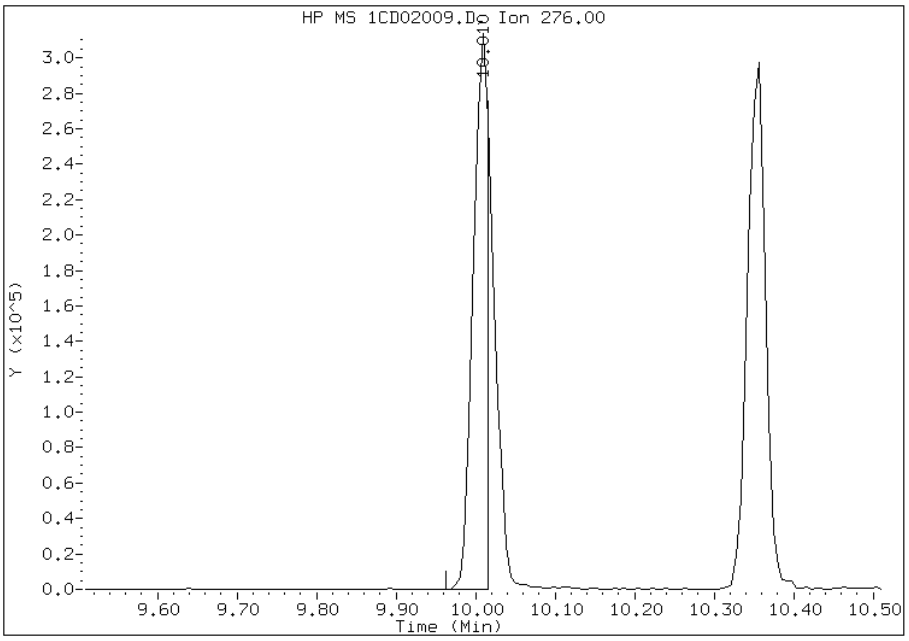
Manual Integration Results

RT: 10.01

Response: 412839

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:39
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02010.D
Lab Smp Id: IC6
Inj Date : 02-APR-2013 14:57
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC6
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 14:39 Cal File: 1CD02009.D
Als bottle: 10 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	446499	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	324284	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	615852	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	275212	30.0000	28.6761
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	768745	40.0000	
* 23 Perylene-d12	264	8.857	8.857	(1.000)	837251	40.0000	
2 Naphthalene	128	3.722	3.722	(1.003)	350333	30.0000	30.5481
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	228375	30.0000	29.2540
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	221182	30.0000	31.4875
5 Acenaphthylene	152	4.710	4.710	(0.982)	423924	30.0000	31.5858
7 Acenaphthene	154	4.822	4.822	(1.005)	244735	30.0000	29.4523
9 Fluorene	166	5.139	5.139	(1.071)	331328	30.0000	29.8986
11 Phenanthrene	178	5.763	5.763	(1.003)	529536	30.0000	29.5228
12 Anthracene	178	5.792	5.792	(1.008)	557837	30.0000	30.6801
13 Carbazole	167	5.904	5.904	(1.028)	488550	30.0000	31.3623
15 Fluoranthene	202	6.598	6.598	(1.148)	607836	30.0000	30.6854
16 Pyrene	202	6.763	6.763	(0.880)	663294	30.0000	31.1481
17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	659379	30.0000	26.8553
19 Chrysene	228	7.704	7.704	(1.002)	659226	30.0000	30.0935(H)
20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	671785	30.0000	28.3815(H)
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.964)	719552	30.0000	31.4311(H)
22 Benzo(a)pyrene	252	8.804	8.804	(0.994)	655944	30.0000	29.4349
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.009	(1.130)	655344	30.0000	30.9619(MH)
25 Dibenzo(a,h)anthracene	278	10.027	10.027	(1.132)	600720	30.0000	30.7234
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	675124	30.0000	31.2520(H)

QC Flag Legend

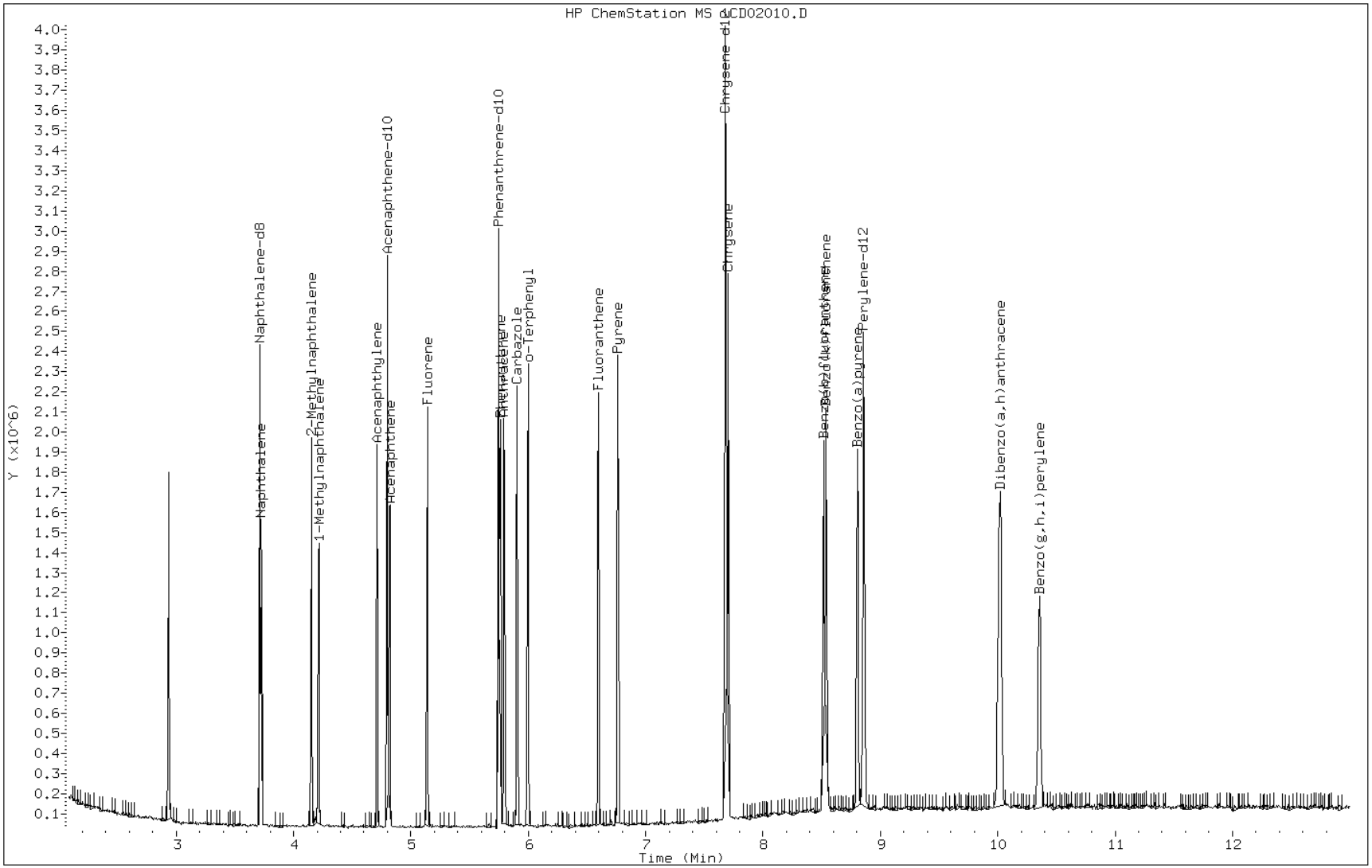
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD02010.D

Date: 02-APR-2013 14:57

Client ID: Instrument: BSMC5973.i

Sample Info: IC6 Operator: SCC



Manual Integration Report

Data File: 1CD02010.D
Inj. Date and Time: 02-APR-2013 14:57
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

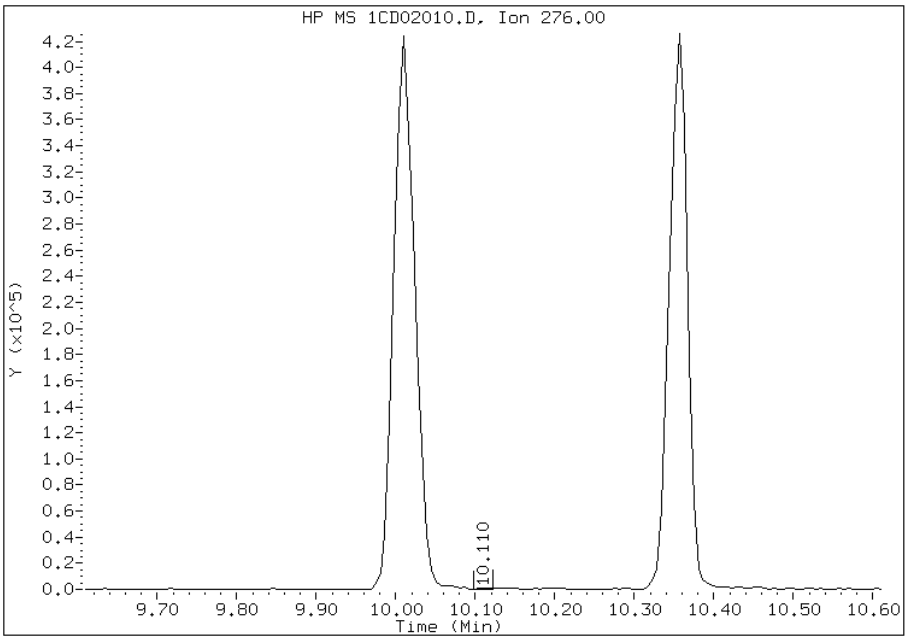
Processing Integration Results

RT: 10.11

Response: 1008

Amount: 0

Conc: 0



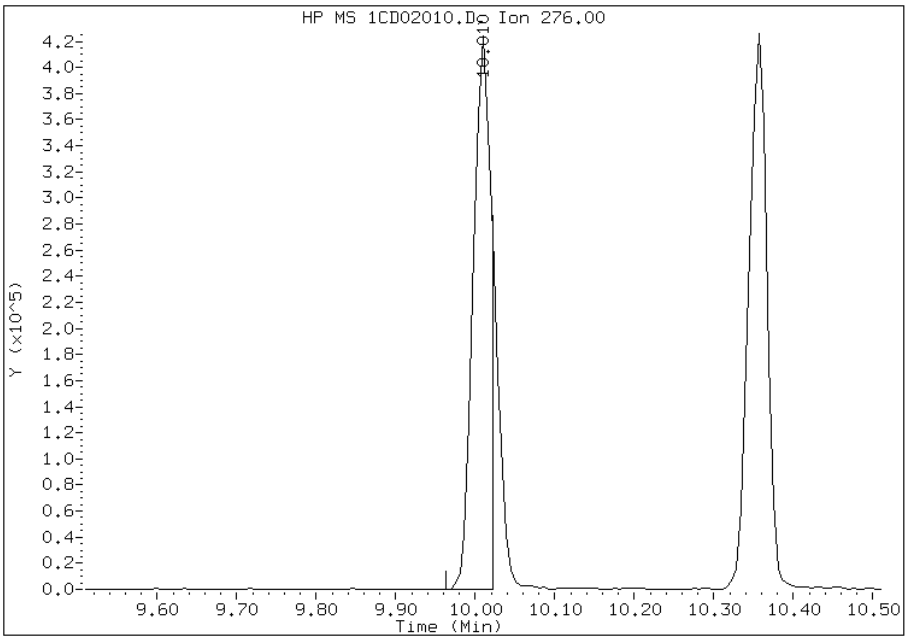
Manual Integration Results

RT: 10.01

Response: 655344

Amount: 31

Conc: 31



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:50
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02011.D
Lab Smp Id: IC7
Inj Date : 02-APR-2013 15:15
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC7
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 14:57 Cal File: 1CD02010.D
Als bottle: 11 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	509868	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	373136	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	712035	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	587824	50.0000	52.9755(A)
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	948633	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	971909	40.0000	
2 Naphthalene	128	3.727	3.727	(1.005)	668649	50.0000	51.0580(A)
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	447751	50.0000	50.2269(A)
4 1-Methylnaphthalene	142	4.215	4.215	(1.136)	419135	50.0000	52.2523(A)
5 Acenaphthylene	152	4.710	4.710	(0.982)	814053	50.0000	52.7127(A)
7 Acenaphthene	154	4.821	4.821	(1.005)	480392	50.0000	50.2433(A)
9 Fluorene	166	5.139	5.139	(1.071)	638557	50.0000	50.0785(A)
11 Phenanthrene	178	5.762	5.762	(1.003)	1077014	50.0000	51.9349(A)
12 Anthracene	178	5.798	5.798	(1.009)	1098599	50.0000	52.2594(A)
13 Carbazole	167	5.904	5.904	(1.028)	948101	50.0000	52.6415(A)
15 Fluoranthene	202	6.598	6.598	(1.148)	1248081	50.0000	54.4959(A)
16 Pyrene	202	6.762	6.762	(0.880)	1360548	50.0000	51.7754(A)
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	1380443	50.0000	45.5615
19 Chrysene	228	7.709	7.709	(1.003)	1377767	50.0000	50.9681(AH)
20 Benzo(b)fluoranthene	252	8.521	8.521	(0.962)	1443812	50.0000	52.5467(AH)
21 Benzo(k)fluoranthene	252	8.545	8.545	(0.964)	1396501	50.0000	52.5496(AH)
22 Benzo(a)pyrene	252	8.809	8.809	(0.994)	1403971	50.0000	54.2730(A)
24 Indeno(1,2,3-cd)pyrene	276	10.015	10.015	(1.130)	1242391	50.0000	50.5646(AMH)
25 Dibenzo(a,h)anthracene	278	10.033	10.033	(1.132)	1194691	50.0000	52.6360(A)
26 Benzo(g,h,i)perylene	276	10.362	10.362	(1.169)	1270187	50.0000	50.6515(AH)

QC Flag Legend

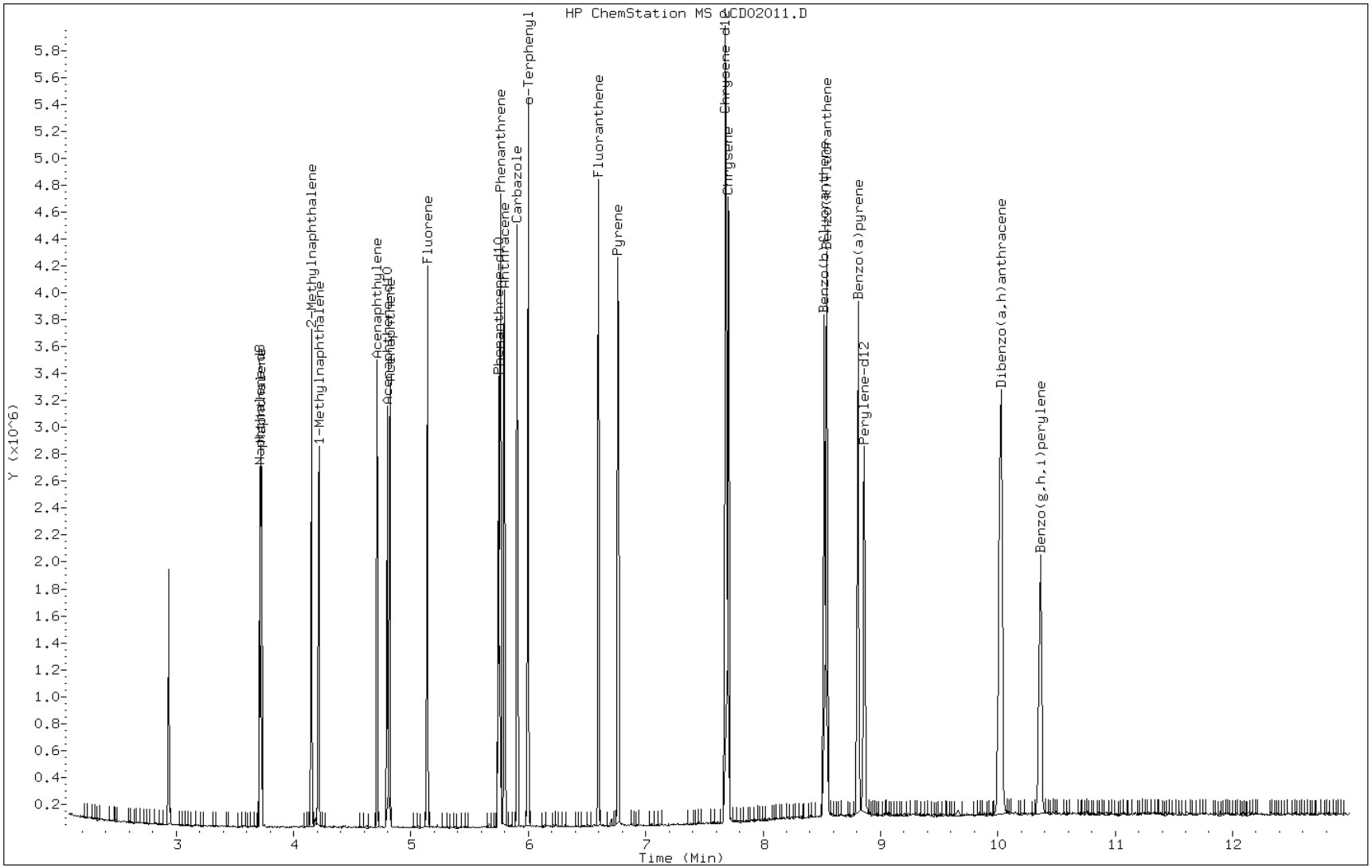
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD02011.D

Date: 02-APR-2013 15:15

Client ID: Instrument: BSMC5973.i

Sample Info: IC7 Operator: SCC



Manual Integration Report

Data File: 1CD02011.D
Inj. Date and Time: 02-APR-2013 15:15
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

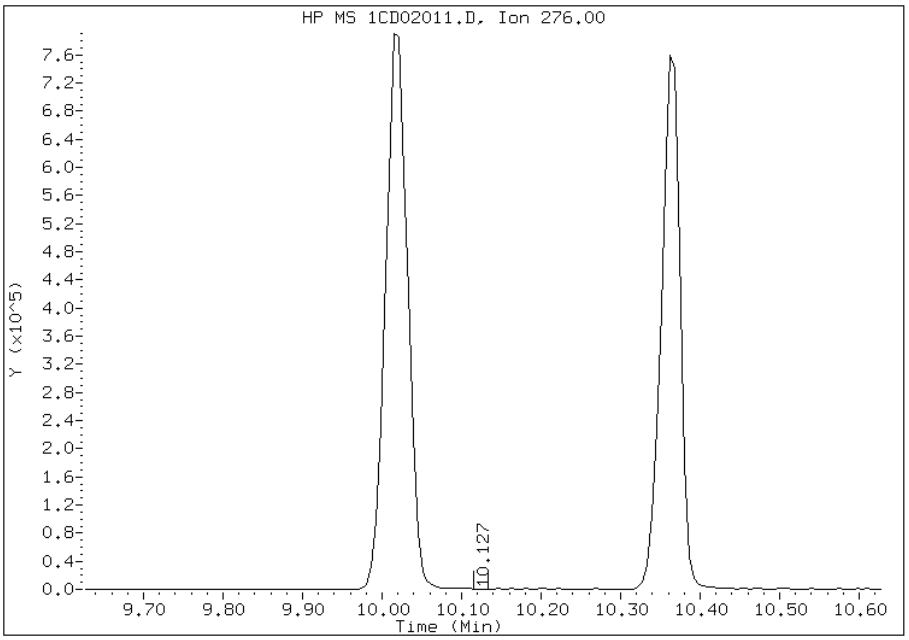
Processing Integration Results

RT: 10.13

Response: 653

Amount: 0

Conc: 0



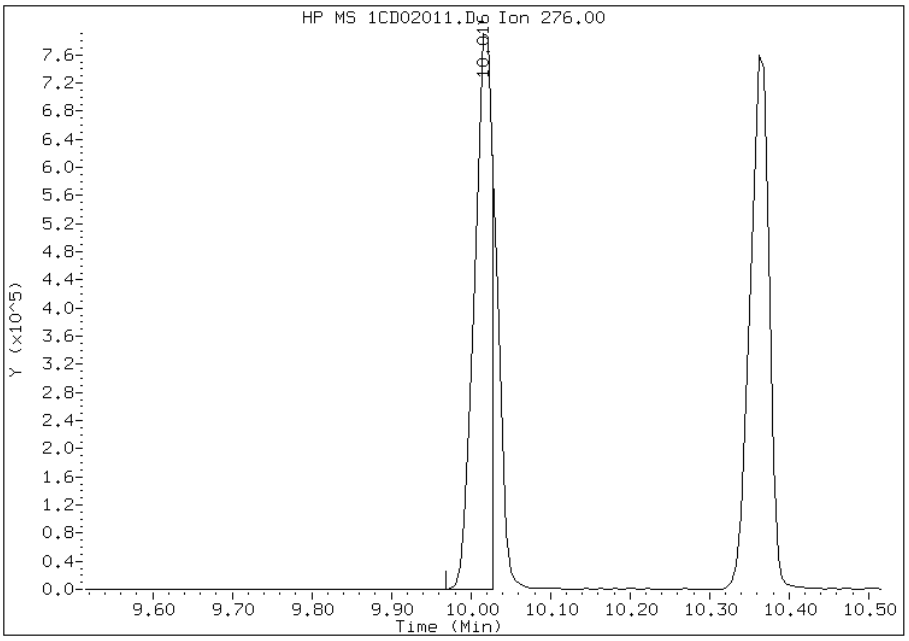
Manual Integration Results

RT: 10.02

Response: 1242391

Amount: 51

Conc: 51



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:51
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-1 Analy Batch No.: 134781

SDG No.: 68088766-1

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.: 680-88766-1 Analy Batch No.: 134781

SDG No.: 68088766-1

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.: 680-88766-1 Analy Batch No.: 134781

SDG No.: 68088766-1

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.: 680-88766-1 Analy Batch No.: 134781

SDG No.: 68088766-1

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

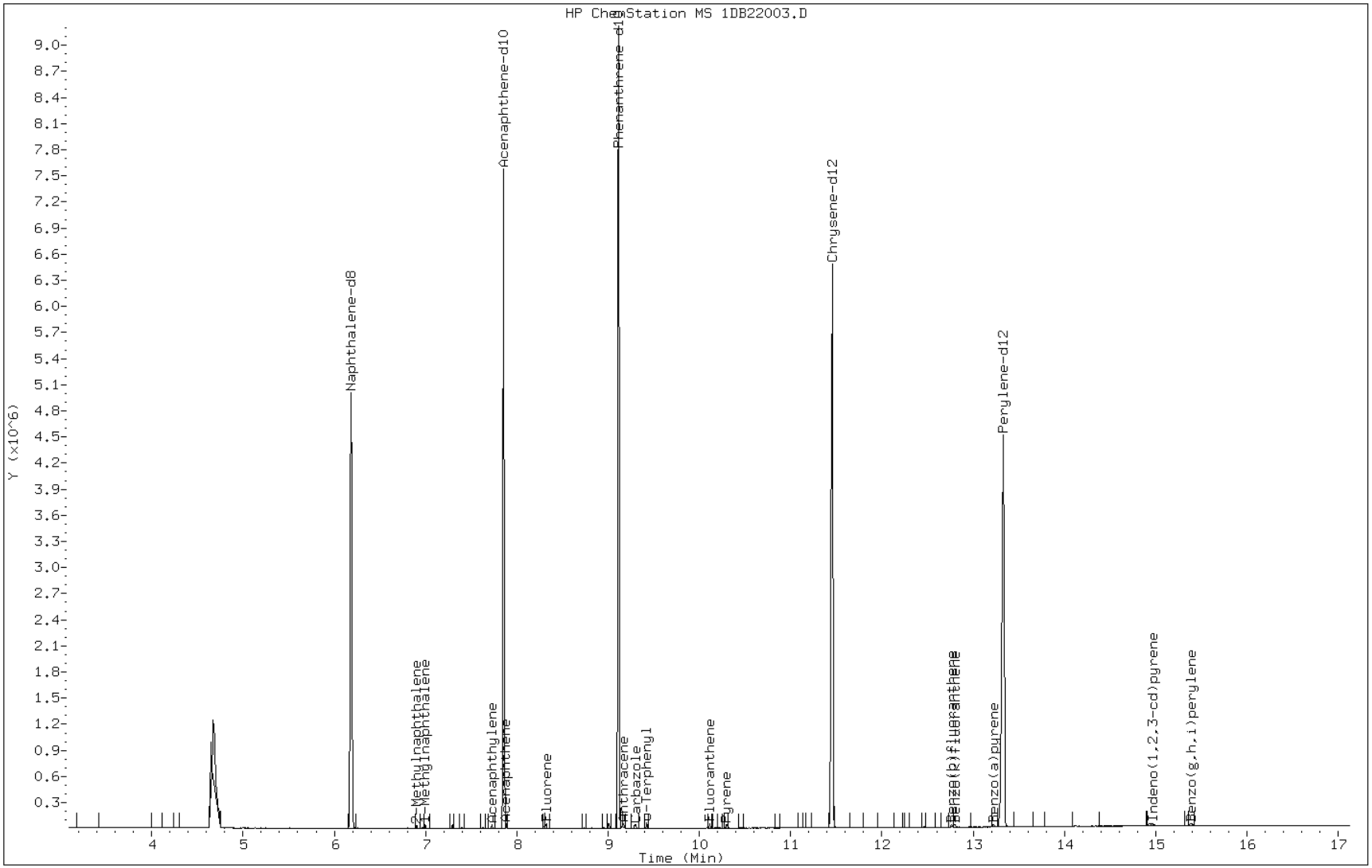
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

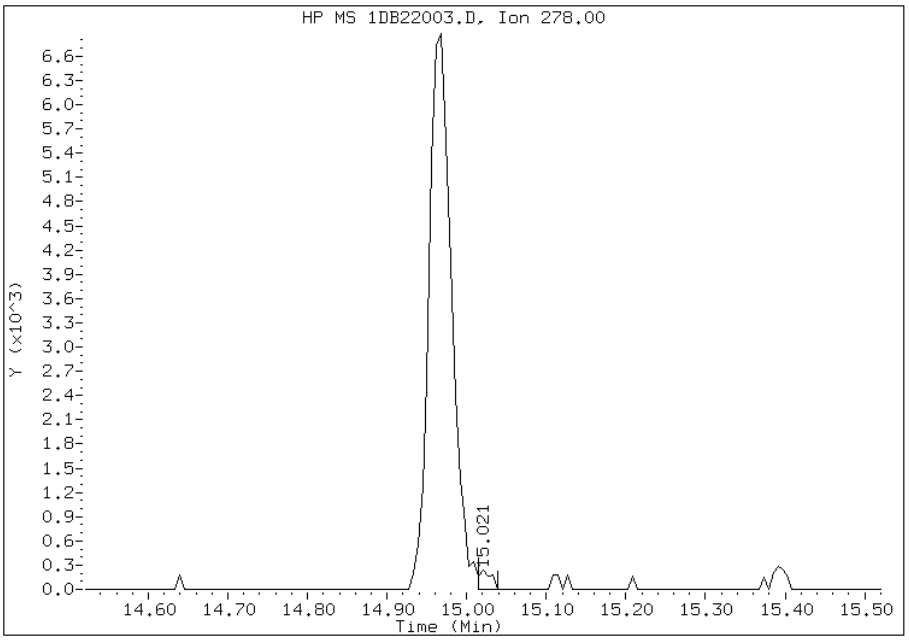
Processing Integration Results

RT: 15.02

Response: 262

Amount: 0

Conc: 0



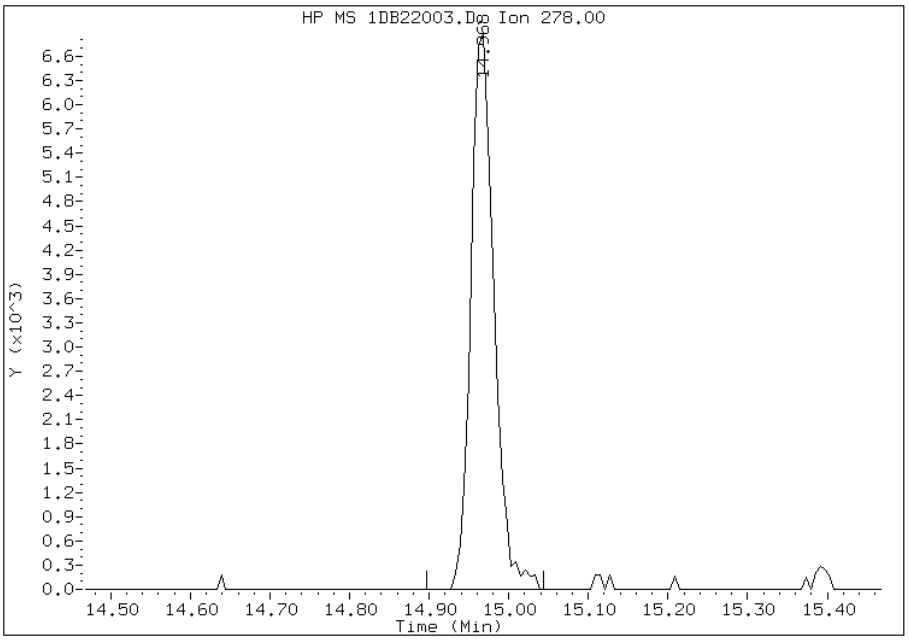
Manual Integration Results

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

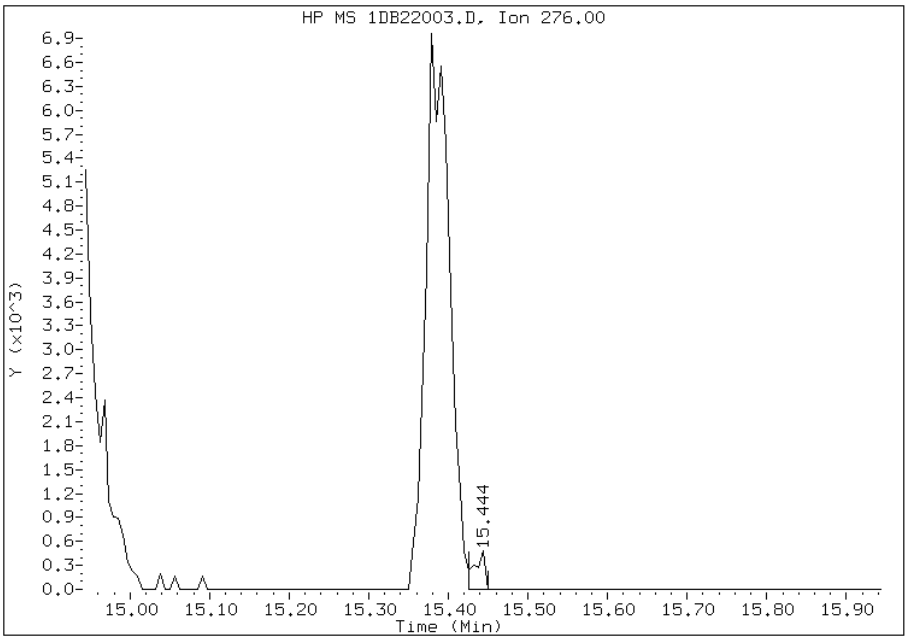
Processing Integration Results

RT: 15.44

Response: 456

Amount: 0

Conc: 0



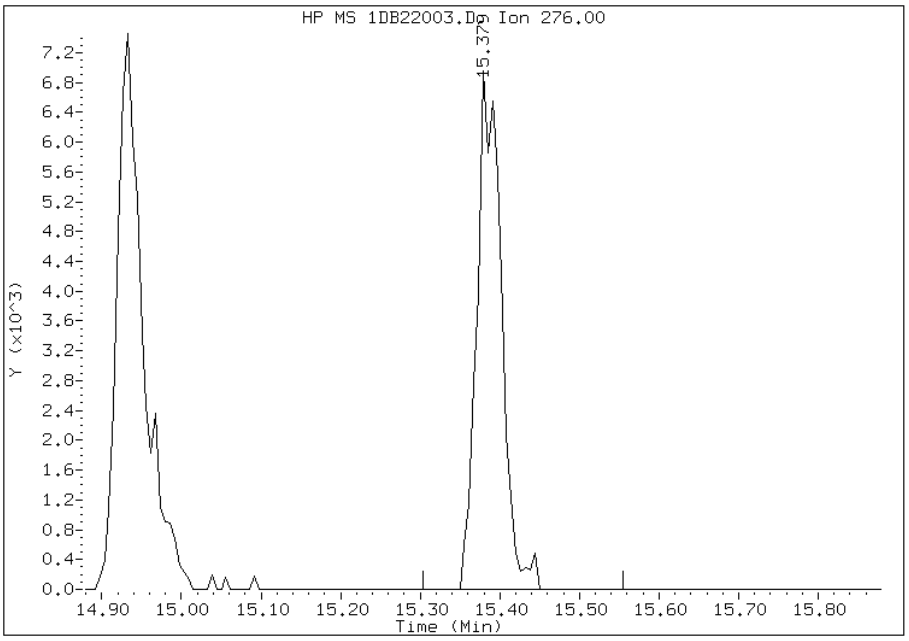
Manual Integration Results

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

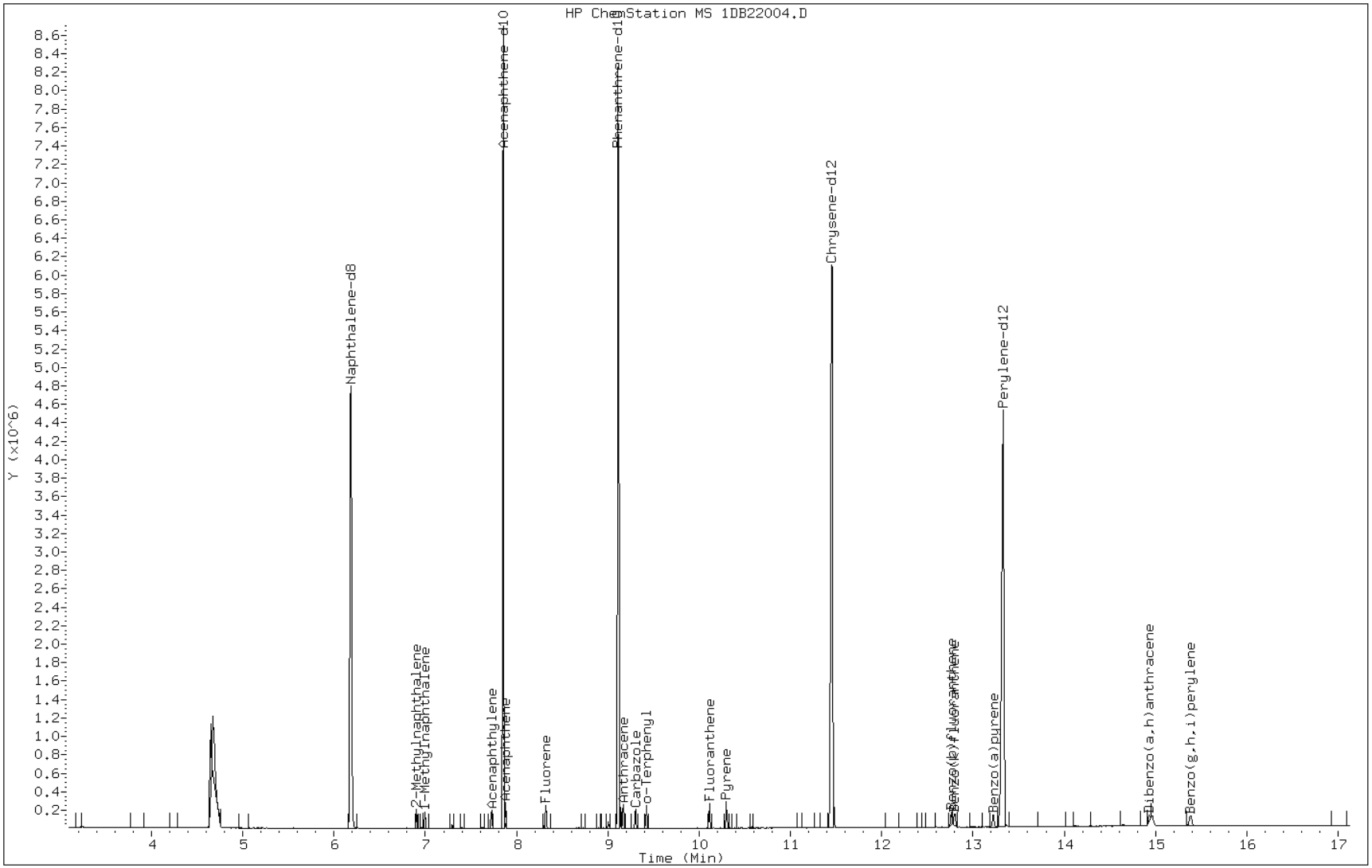
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

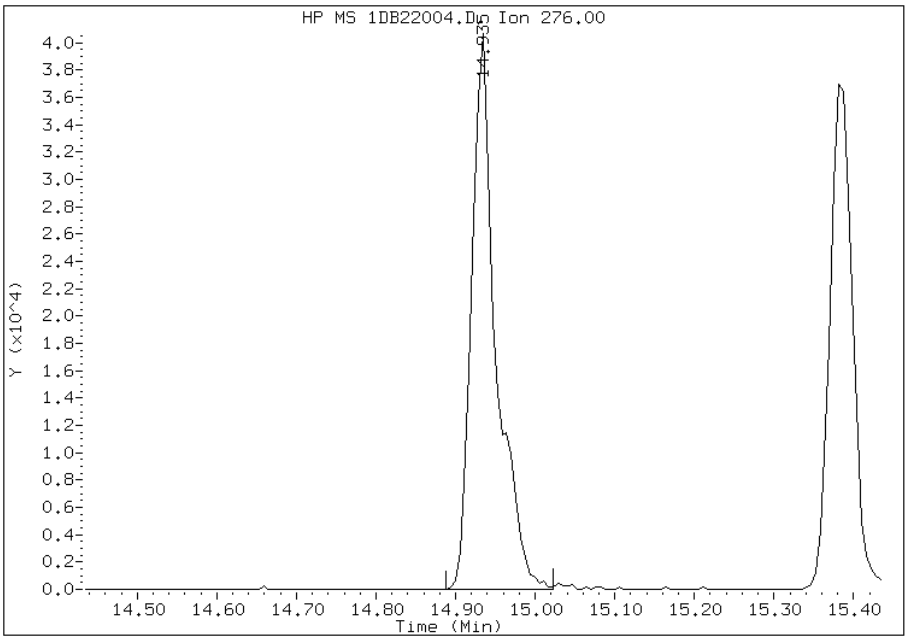
Processing Integration Results

RT: 14.93

Response: 86267

Amount: 1

Conc: 1



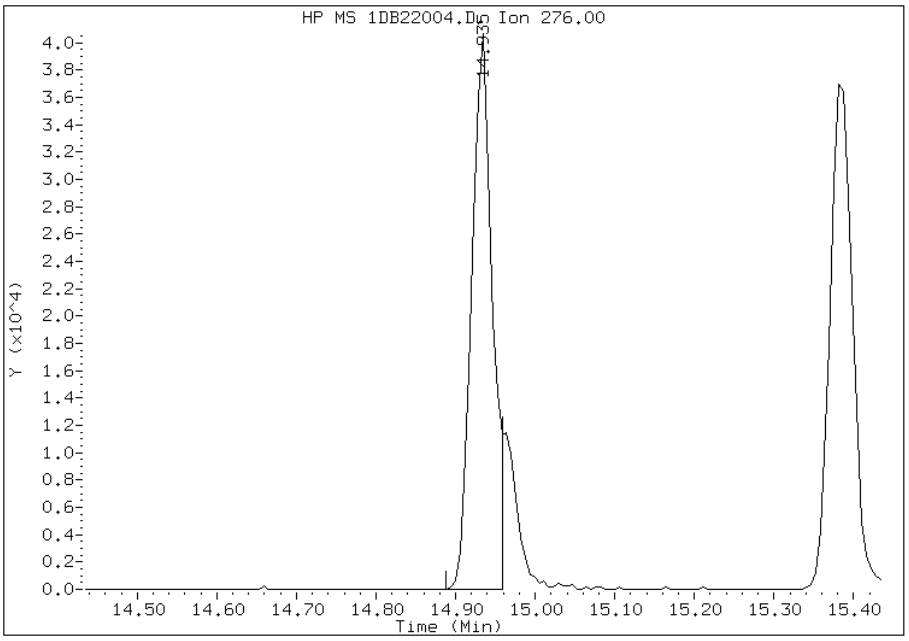
Manual Integration Results

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

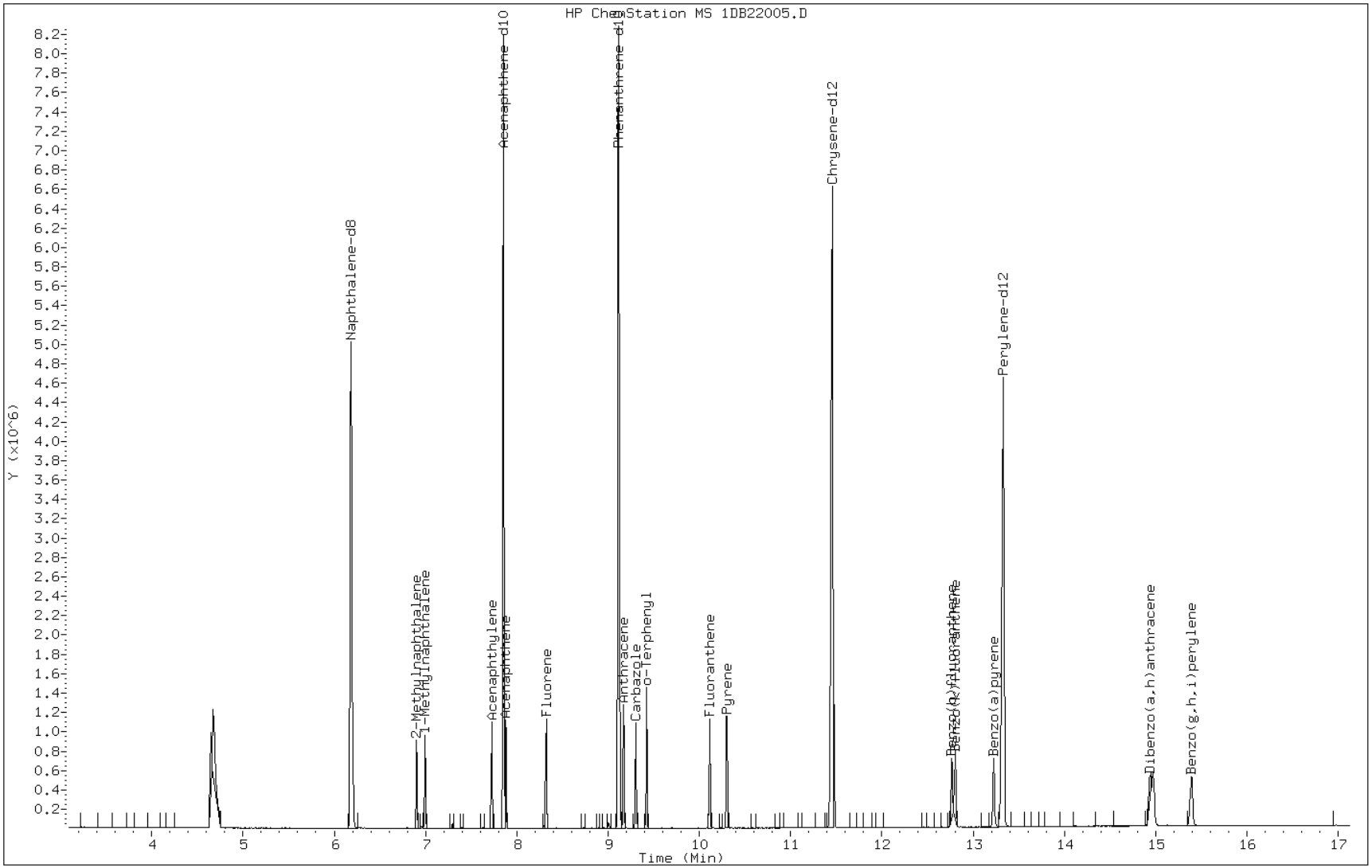
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

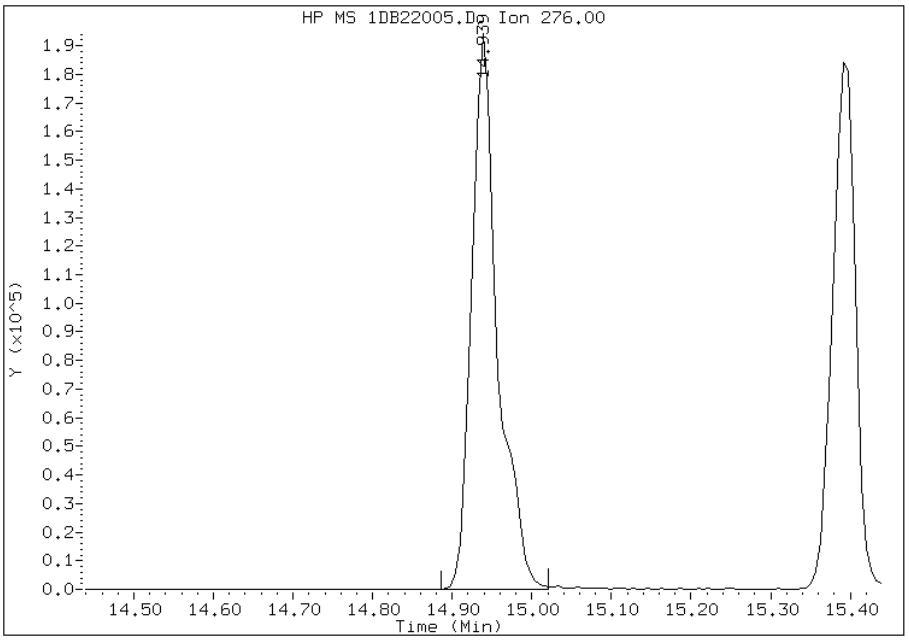
Processing Integration Results

RT: 14.94

Response: 437022

Amount: 5

Conc: 5



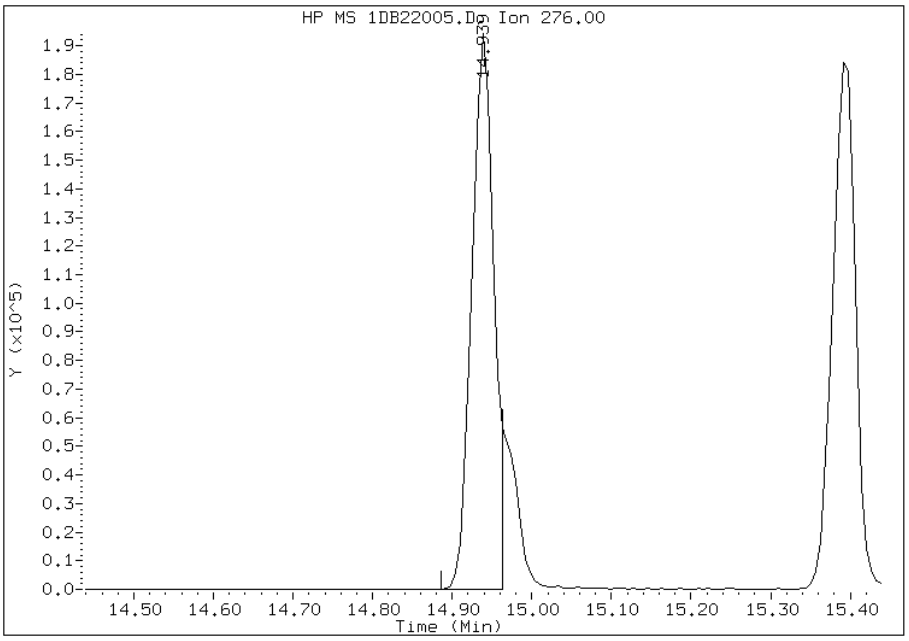
Manual Integration Results

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

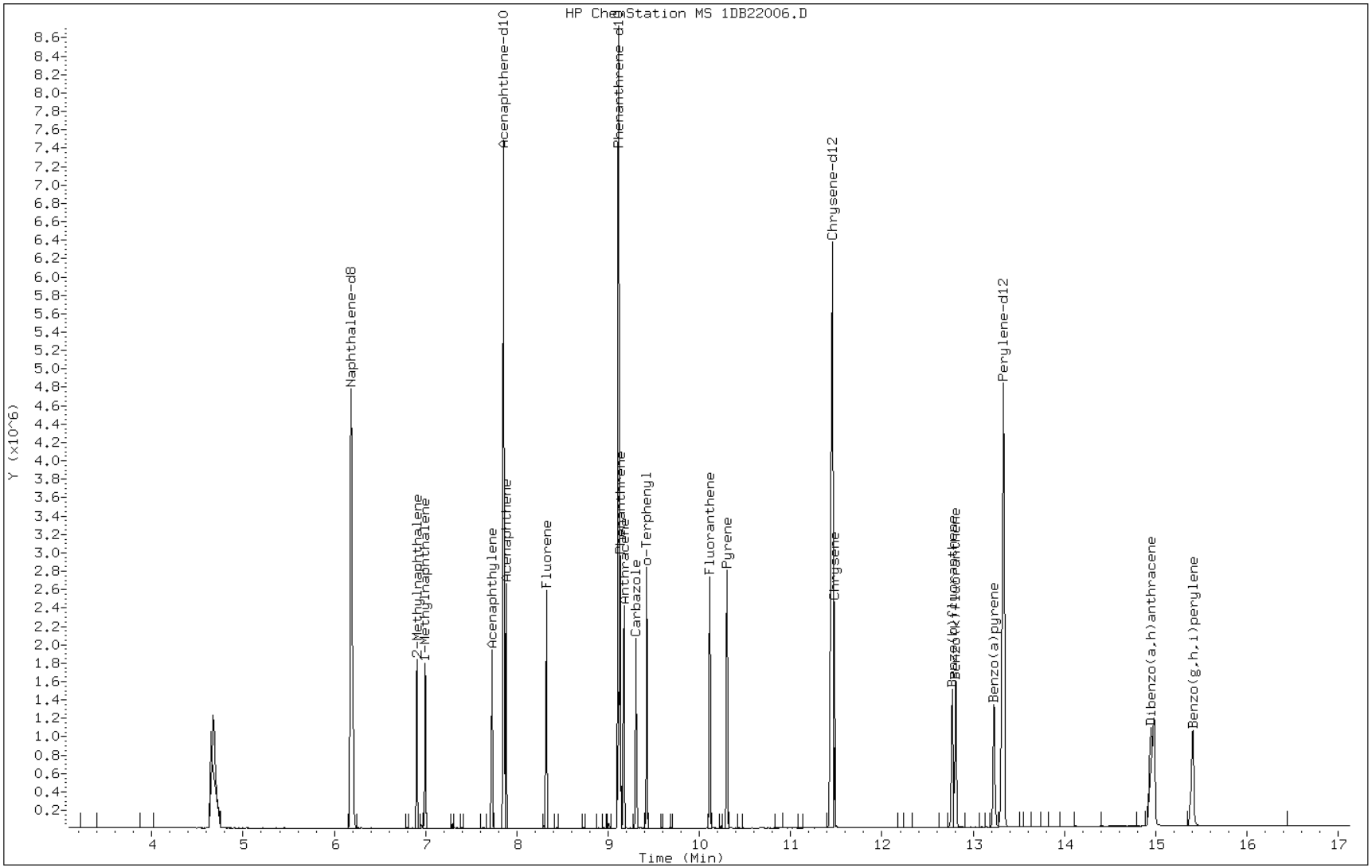
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

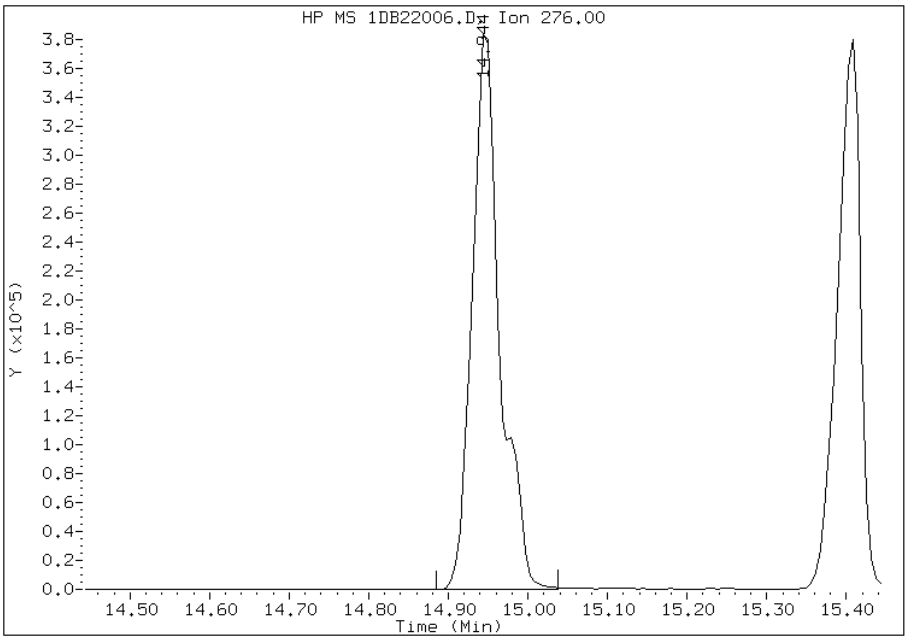
Processing Integration Results

RT: 14.94

Response: 923395

Amount: 11

Conc: 11



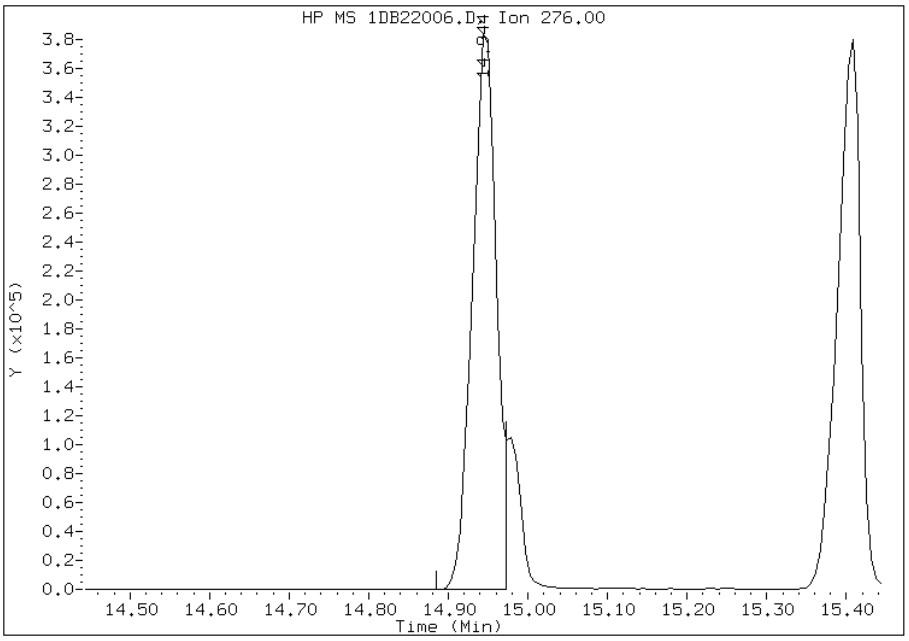
Manual Integration Results

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

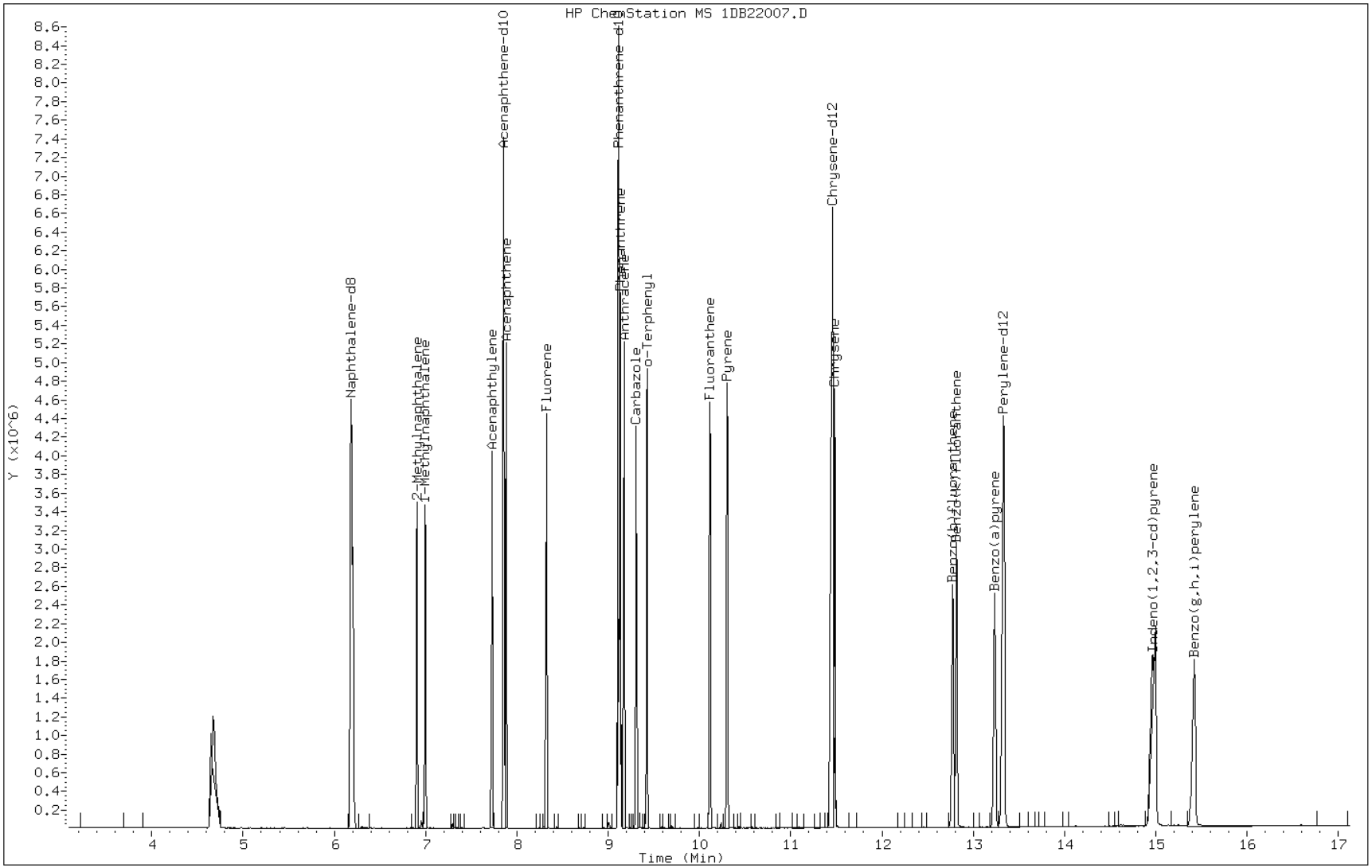
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2851402	40.0000	
* 6 Acenaphthene-d10	164	7.857	7.857	(1.000)	1685266	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2758746	40.0000	
$ 13 o-Terphenyl	230	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

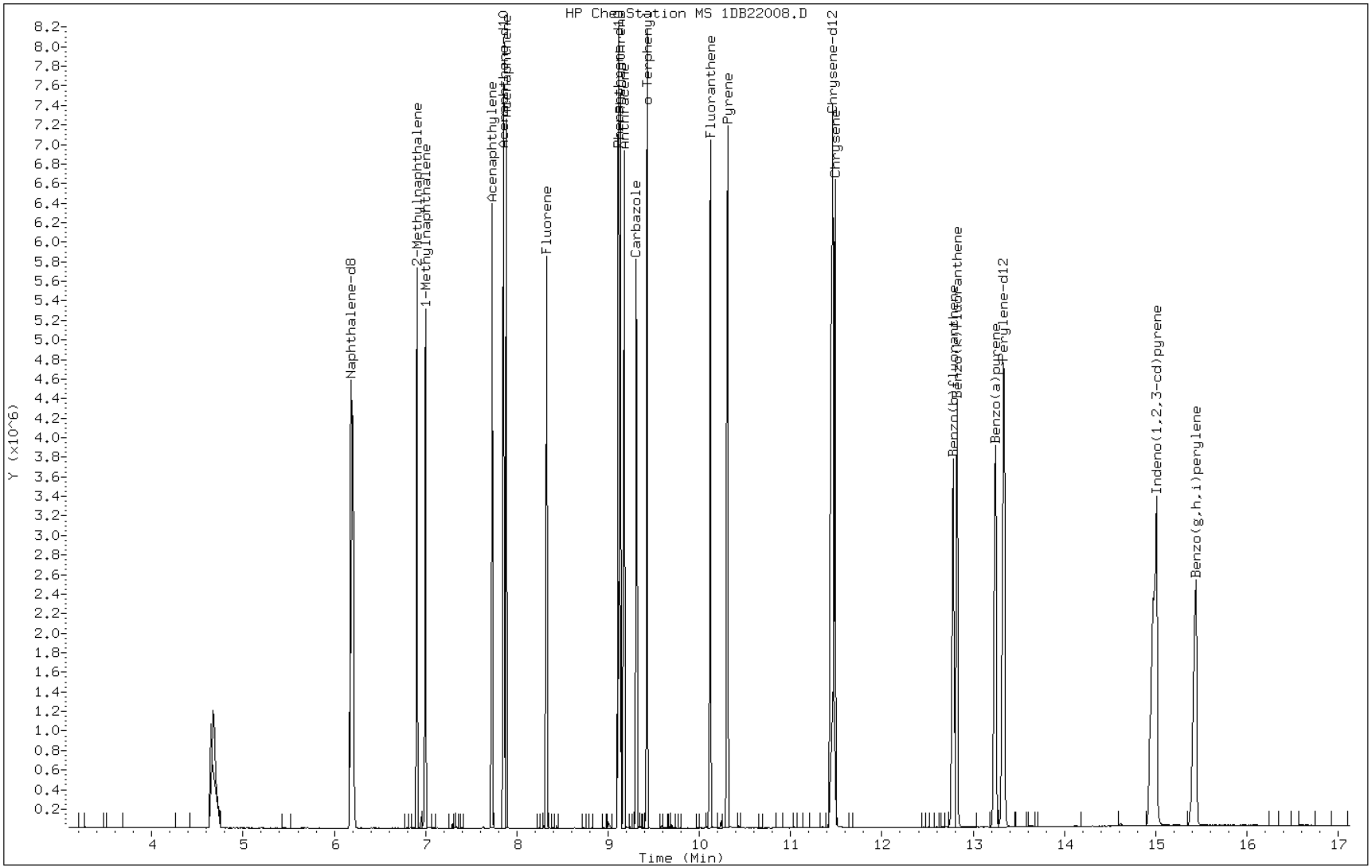
H - Operator selected an alternate compound hit.

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

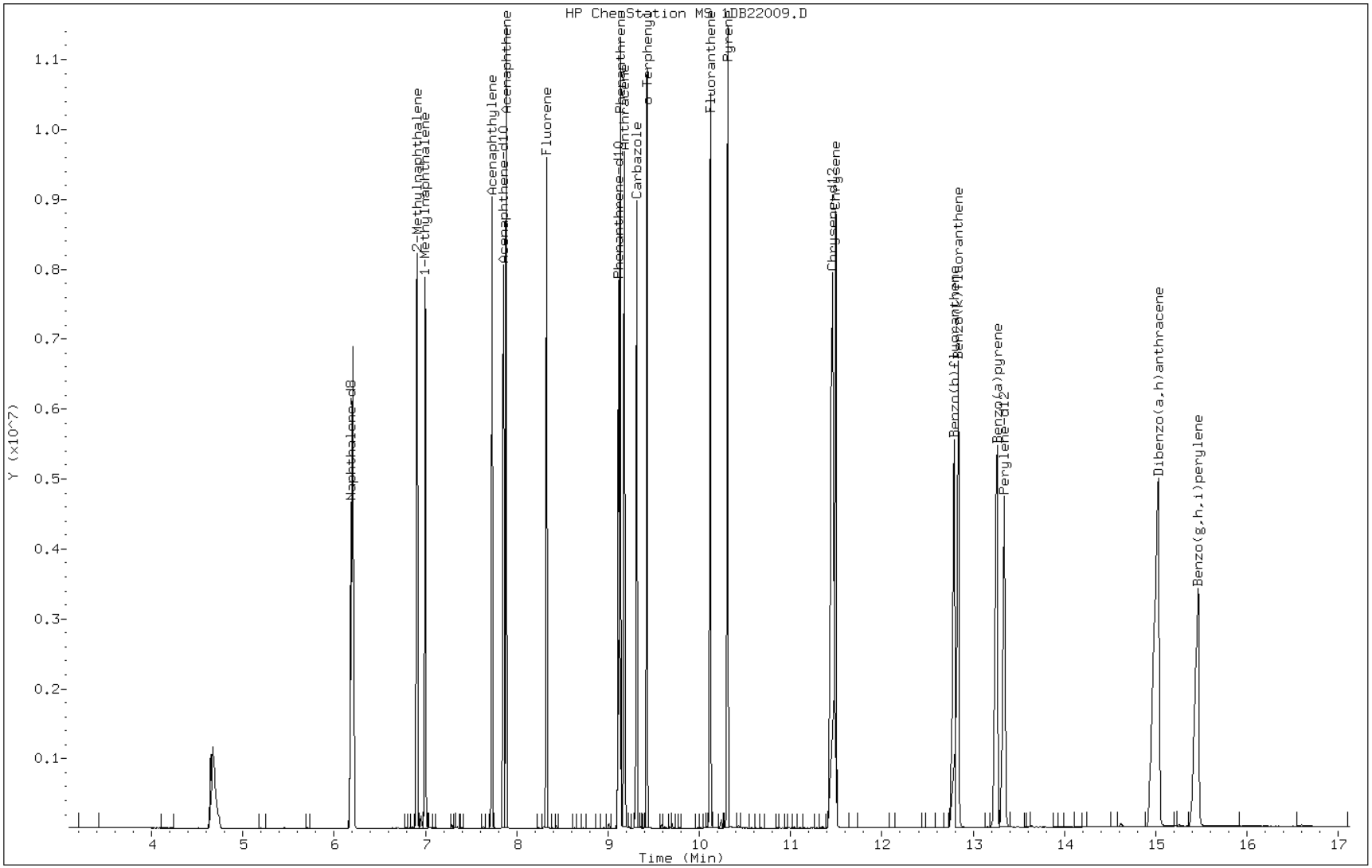
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

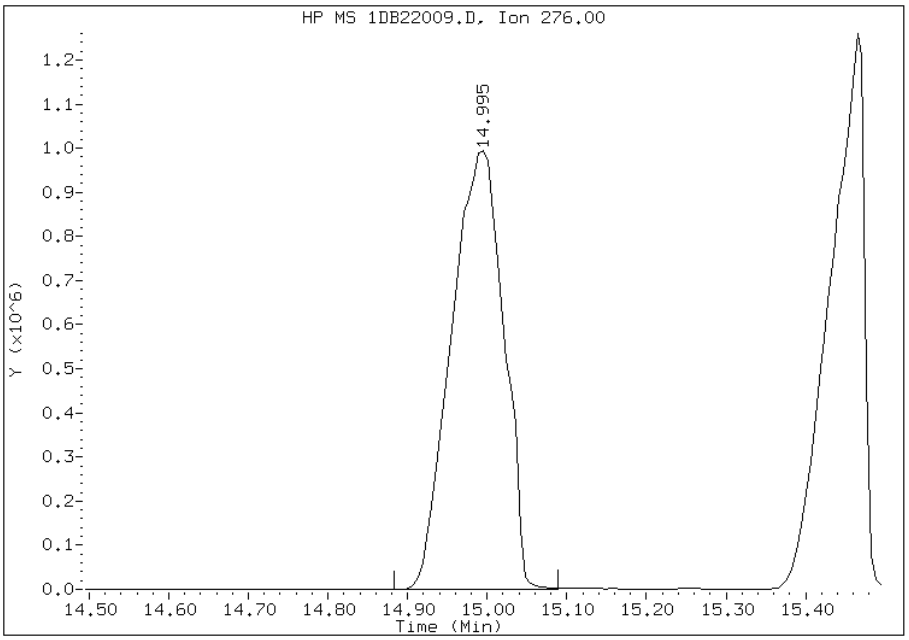
Processing Integration Results

RT: 15.00

Response: 4559640

Amount: 57

Conc: 57



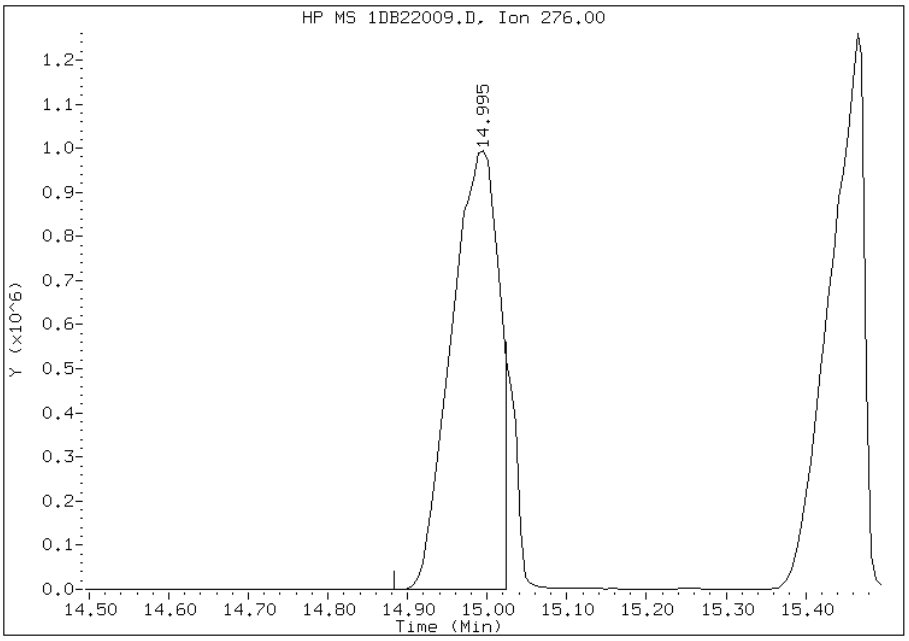
Manual Integration Results

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.: 680-88766-1

SDG No.: 68088766-1

Lab Sample ID: ICV 660-136048/12 Calibration Date: 04/02/2013 15:34

Instrument ID: BSMC5973 Calib Start Date: 04/02/2013 13:26

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/02/2013 15:15

Lab File ID: 1CD02012.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	0.9549	0.0000	18600	20000	-7.1	35.0
2-Methylnaphthalene	Ave	0.6994	0.5884	0.0000	16800	20000	-15.9	35.0
1-Methylnaphthalene	Ave	0.6293	0.5998	0.0000	19100	20000	-4.7	35.0
Acenaphthylene	Ave	1.656	1.493	0.0000	18000	20000	-9.8	35.0
Acenaphthene	Lin	1.025	0.8508	0.0000	16600	20000	-17.0	35.0
Fluorene	Ave	1.367	1.209	0.0000	17700	20000	-11.5	35.0
Phenanthrene	Ave	1.165	0.9563	0.0000	16400	20000	-17.9	35.0
Anthracene	Ave	1.181	0.9425	0.0000	16000	20000	-20.2	35.0
Carbazole	Ave	1.012	0.8775	0.0000	17300	20000	-13.3	35.0
Fluoranthene	Ave	1.287	1.100	0.0000	17100	20000	-14.5	35.0
Pyrene	Ave	1.108	0.8708	0.0000	15700	20000	-21.4	35.0
Benzo[a]anthracene	Lin	1.278	0.9658	0.0000	16800	20000	-16.0	35.0
Chrysene	Ave	1.140	0.8716	0.0000	15300	20000	-23.5	35.0
Benzo[b]fluoranthene	Ave	1.131	0.8920	0.0000	15800	20000	-21.1	35.0
Benzo[k]fluoranthene	Ave	1.094	0.8978	0.0000	16400	20000	-17.9	35.0
Benzo[a]pyrene	Ave	1.065	0.8060	0.0000	15100	20000	-24.3	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	0.8744	0.0000	17300	20000	-13.5	35.0
Dibenz(a,h)anthracene	Ave	0.9341	0.8626	0.0000	18500	20000	-7.7	35.0
Benzo[g,h,i]perylene	Ave	1.032	0.8592	0.0000	16600	20000	-16.8	35.0
o-Terphenyl	Lin	0.6233	0.5049	0.0000	16200	20000	-19.0	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02012.D
Lab Smp Id: ICV-1448440
Inj Date : 02-APR-2013 15:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 12 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/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	3.710	3.710	(1.000)	649122	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	500935	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	955391	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	241169	16.1906	16.1906
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	1249690	40.0000	
* 23 Perylene-d12	264	8.856	8.863	(1.000)	1306409	40.0000	
2 Naphthalene	128	3.727	3.728	(1.005)	309919	18.5886	18.5885
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	190970	16.8266	16.8266
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	194664	19.0620	19.0620
5 Acenaphthylene	152	4.710	4.710	(0.982)	373939	18.0364	18.0363
7 Acenaphthene	154	4.821	4.822	(1.005)	213089	16.5944	16.5943
9 Fluorene	166	5.139	5.139	(1.071)	302875	17.6930	17.6929
11 Phenanthrene	178	5.763	5.763	(1.003)	456841	16.4181	16.4181
12 Anthracene	178	5.798	5.798	(1.009)	450208	15.9610	15.9609
13 Carbazole	167	5.904	5.904	(1.028)	419186	17.3461	17.3460
15 Fluoranthene	202	6.598	6.598	(1.148)	525545	17.1022	17.1021
16 Pyrene	202	6.763	6.763	(0.880)	544110	15.7178	15.7178
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	603470	16.8016	16.8016

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
19 Chrysene	228	7.704	7.710	(1.002)	544600	15.2932	15.2931
20 Benzo(b)fluoranthene	252	8.515	8.522	(0.961)	582649	15.7757	15.7757
21 Benzo(k)fluoranthene	252	8.539	8.545	(0.964)	586474	16.4181	16.4181
22 Benzo(a)pyrene	252	8.804	8.810	(0.994)	526495	15.1414	15.1414
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.016	(1.130)	571166	17.2941	17.2940(M)
25 Dibenzo(a,h)anthracene	278	10.021	10.033	(1.131)	563427	18.4677	18.4676
26 Benzo(g,h,i)perylene	276	10.351	10.363	(1.169)	561199	16.6490	16.6490

QC Flag Legend

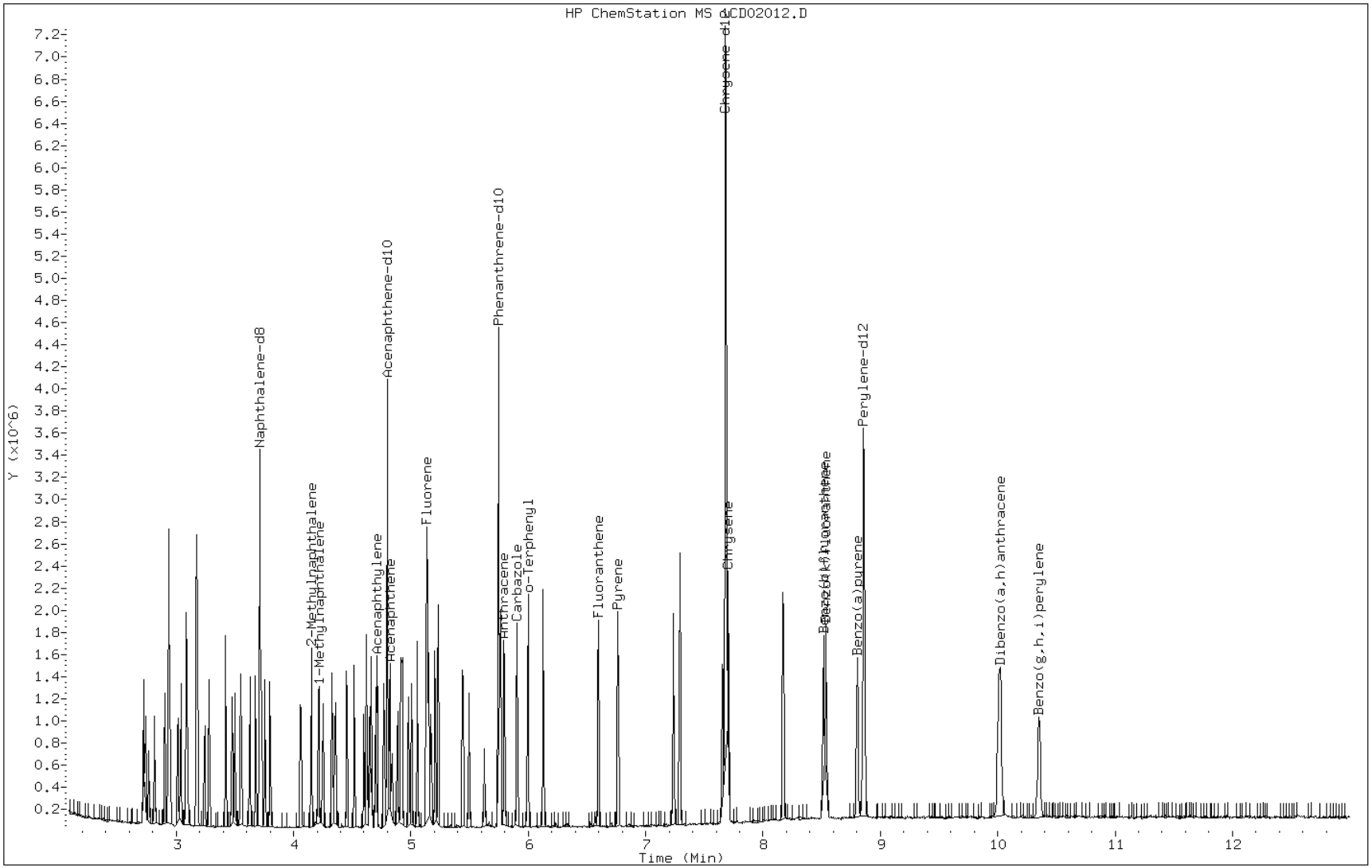
M - Compound response manually integrated.

Data File: 1CD02012.D

Date: 02-APR-2013 15:34

Client ID: Instrument: BSMC5973.i

Sample Info: ICV-1448440 Operator: SCC



Manual Integration Report

Data File: 1CD02012.D
Inj. Date and Time: 02-APR-2013 15:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

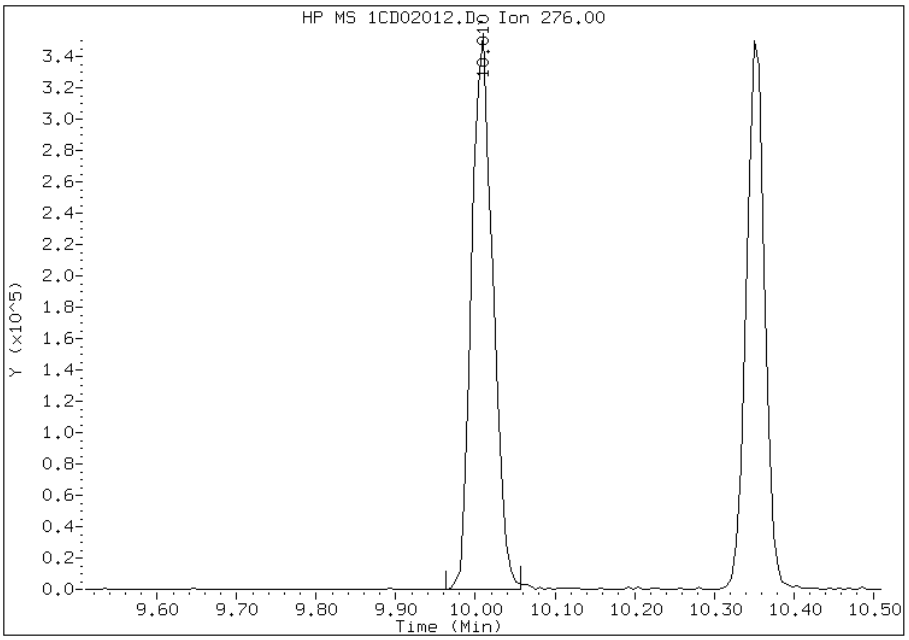
Processing Integration Results

RT: 10.01

Response: 653584

Amount: 20

Conc: 20



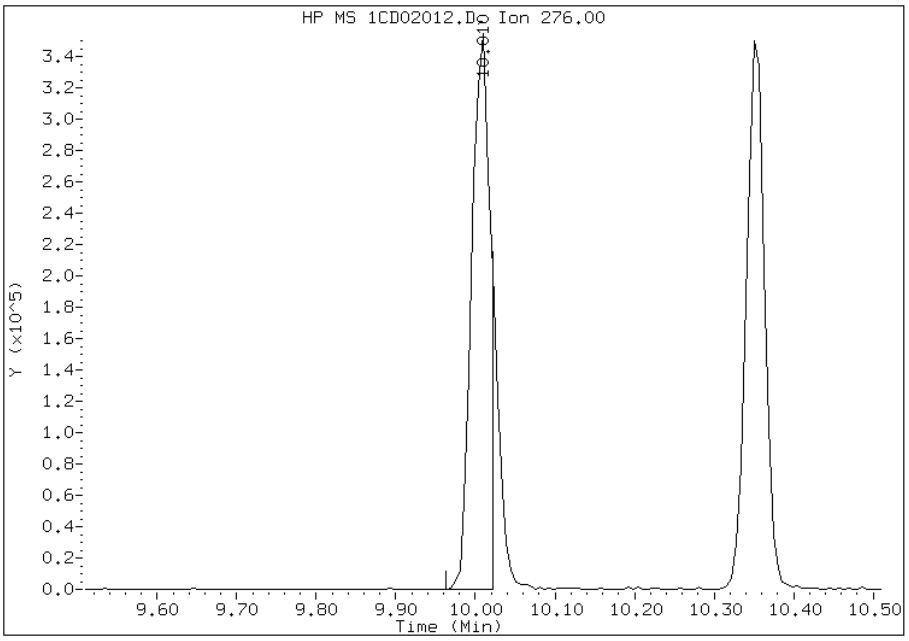
Manual Integration Results

RT: 10.01

Response: 571166

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:57
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Lab Sample ID: CCVIS 660-136079/3 Calibration Date: 04/02/2013 16:40

Instrument ID: BSMC5973 Calib Start Date: 04/02/2013 13:26

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/02/2013 15:15

Lab File ID: 1CD02015.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	1.074	0.0000	20900	20000	4.5	20.0
2-Methylnaphthalene	Ave	0.6994	0.6951	0.0000	19900	20000	-0.6	20.0
1-Methylnaphthalene	Ave	0.6293	0.6346	0.0000	20200	20000	0.9	20.0
Acenaphthylene	Ave	1.656	1.679	0.0000	20300	20000	1.4	20.0
Acenaphthene	Lin	1.025	1.013	0.0000	19800	20000	-1.2	20.0
Fluorene	Ave	1.367	1.341	0.0000	19600	20000	-1.9	20.0
Phenanthrene	Ave	1.165	1.176	0.0000	20200	20000	1.0	20.0
Anthracene	Ave	1.181	1.208	0.0000	20500	20000	2.3	20.0
Carbazole	Ave	1.012	1.059	0.0000	20900	20000	4.7	20.0
Fluoranthene	Ave	1.287	1.296	0.0000	20100	20000	0.7	20.0
Pyrene	Ave	1.108	1.156	0.0000	20900	20000	4.4	20.0
Benzo[a]anthracene	Lin	1.278	1.098	0.0000	19100	20000	-4.6	20.0
Chrysene	Ave	1.140	1.171	0.0000	20500	20000	2.7	20.0
Benzo[b]fluoranthene	Ave	1.131	1.150	0.0000	20300	20000	1.7	20.0
Benzo[k]fluoranthene	Ave	1.094	1.092	0.0000	20000	20000	-0.2	20.0
Benzo[a]pyrene	Ave	1.065	1.031	0.0000	19400	20000	-3.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	0.8889	0.0000	17600	20000	-12.1	20.0
Dibenz(a,h)anthracene	Ave	0.9341	0.9786	0.0000	21000	20000	4.8	20.0
Benzo[g,h,i]perylene	Ave	1.032	1.034	0.0000	20000	20000	0.2	20.0
o-Terphenyl	Lin	0.6233	0.6075	0.0000	19300	20000	-3.3	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1CD02015.D
Lab Smp Id: CCVIS
Inj Date : 02-APR-2013 16:40
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 16:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 14 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	3.710	3.710	(1.000)	497056	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	363517	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	670971	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	203804	20.0000	19.3344
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	842326	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	926334	40.0000	
2 Naphthalene	128	3.721	3.721	(1.003)	266870	20.0000	20.9034
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	172748	20.0000	19.8776
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	157727	20.0000	20.1702
5 Acenaphthylene	152	4.710	4.710	(0.982)	305151	20.0000	20.2824
7 Acenaphthene	154	4.821	4.821	(1.005)	184057	20.0000	19.7518
9 Fluorene	166	5.139	5.139	(1.071)	243772	20.0000	19.6235
11 Phenanthrene	178	5.763	5.763	(1.003)	394579	20.0000	20.1915
12 Anthracene	178	5.798	5.798	(1.009)	405120	20.0000	20.4506
13 Carbazole	167	5.904	5.904	(1.028)	355357	20.0000	20.9380
15 Fluoranthene	202	6.598	6.598	(1.148)	434679	20.0000	20.1413
16 Pyrene	202	6.762	6.762	(0.880)	487068	20.0000	20.8745
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	462241	20.0000	19.0750
19 Chrysene	228	7.704	7.704	(1.002)	493245	20.0000	20.5496
20 Benzo(b)fluoranthene	252	8.521	8.521	(0.962)	532672	20.0000	20.3401
21 Benzo(k)fluoranthene	252	8.545	8.545	(0.964)	505787	20.0000	19.9688
22 Benzo(a)pyrene	252	8.809	8.809	(0.994)	477476	20.0000	19.3658
24 Indeno(1,2,3-cd)pyrene	276	10.015	10.015	(1.130)	411689	20.0000	17.5798(M)
25 Dibenzo(a,h)anthracene	278	10.027	10.027	(1.131)	453269	20.0000	20.9527
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	478868	20.0000	20.0354

QC Flag Legend

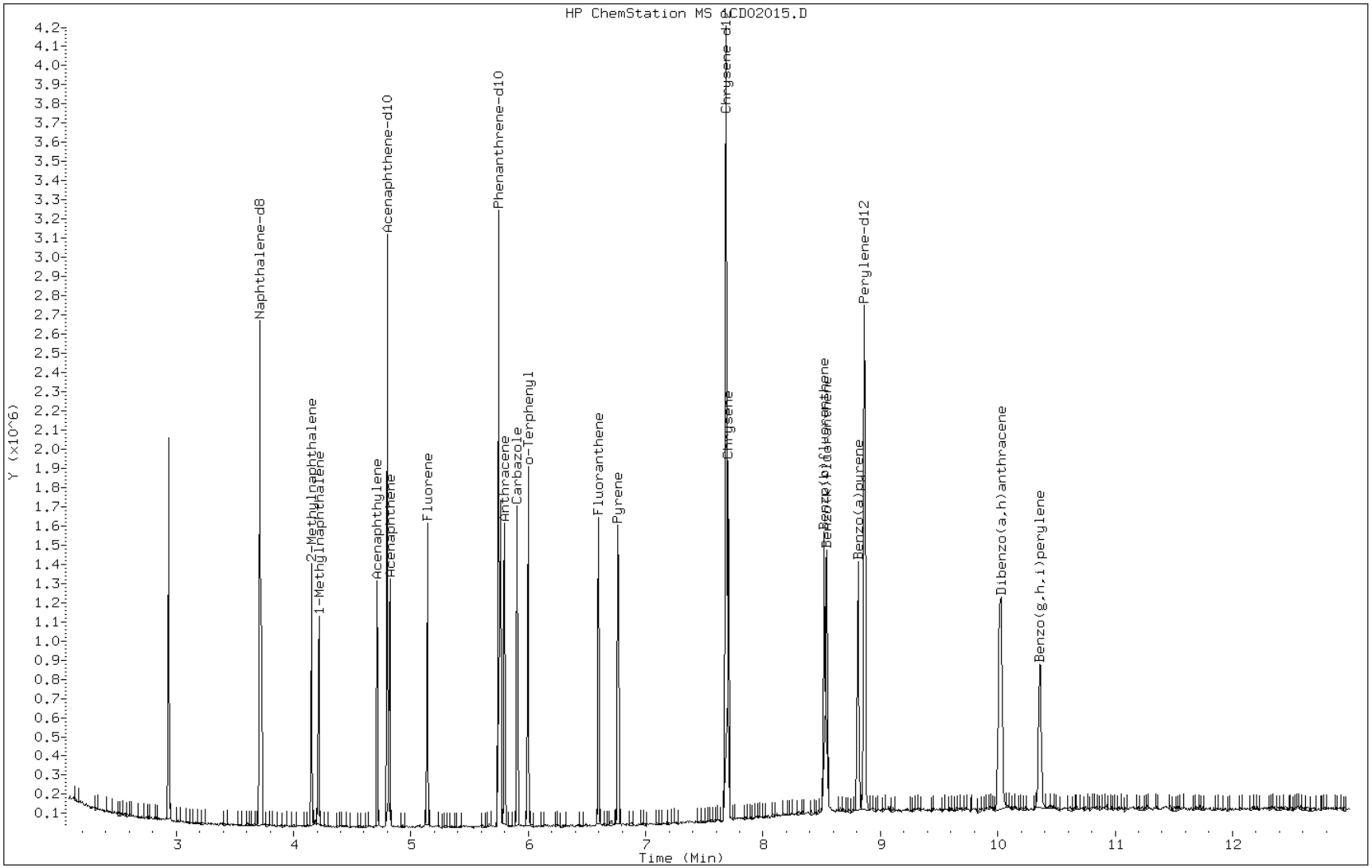
M - Compound response manually integrated.

Data File: 1CD02015.D

Date: 02-APR-2013 16:40

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS Operator: SCC



Manual Integration Report

Data File: 1CD02015.D
Inj. Date and Time: 02-APR-2013 16:40
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

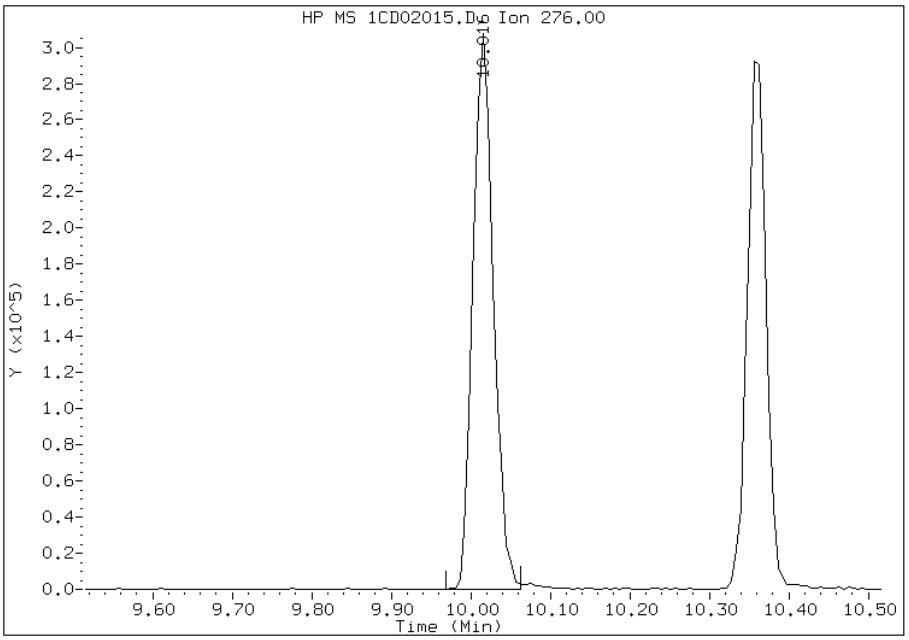
Processing Integration Results

RT: 10.02

Response: 545228

Amount: 23

Conc: 23



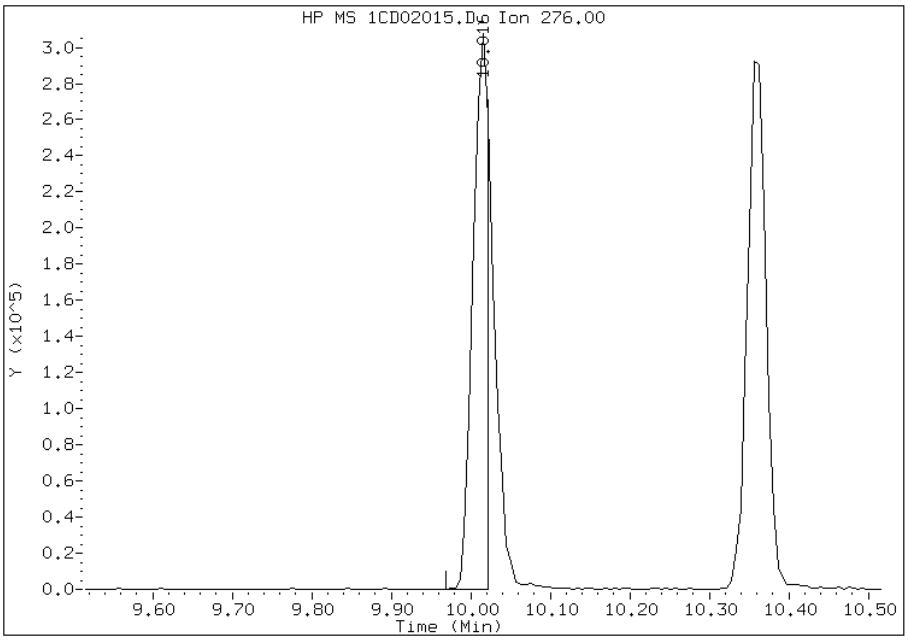
Manual Integration Results

RT: 10.02

Response: 411689

Amount: 18

Conc: 18



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 16:55
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Lab Sample ID: CCVIS 660-136081/3 Calibration Date: 04/03/2013 11:45

Instrument ID: BSMC5973 Calib Start Date: 04/02/2013 13:26

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/02/2013 15:15

Lab File ID: 1CD03003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	0.999	0.0000	19400	20000	-2.8	20.0
2-Methylnaphthalene	Ave	0.6994	0.6776	0.0000	19400	20000	-3.1	20.0
1-Methylnaphthalene	Ave	0.6293	0.6430	0.0000	20400	20000	2.2	20.0
Acenaphthylene	Ave	1.656	1.706	0.0000	20600	20000	3.1	20.0
Acenaphthene	Lin	1.025	0.9817	0.0000	19100	20000	-4.3	20.0
Fluorene	Ave	1.367	1.328	0.0000	19400	20000	-2.9	20.0
Phenanthrene	Ave	1.165	1.152	0.0000	19800	20000	-1.1	20.0
Anthracene	Ave	1.181	1.140	0.0000	19300	20000	-3.5	20.0
Carbazole	Ave	1.012	1.032	0.0000	20400	20000	2.0	20.0
Fluoranthene	Ave	1.287	1.311	0.0000	20400	20000	1.9	20.0
Pyrene	Ave	1.108	1.146	0.0000	20700	20000	3.5	20.0
Benzo[a]anthracene	Lin	1.278	1.115	0.0000	19400	20000	-3.1	20.0
Chrysene	Ave	1.140	1.082	0.0000	19000	20000	-5.1	20.0
Benzo[b]fluoranthene	Ave	1.131	1.174	0.0000	20800	20000	3.8	20.0
Benzo[k]fluoranthene	Ave	1.094	1.068	0.0000	19500	20000	-2.4	20.0
Benzo[a]pyrene	Ave	1.065	1.055	0.0000	19800	20000	-0.9	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	0.9599	0.0000	19000	20000	-5.1	20.0
Dibenz(a,h)anthracene	Ave	0.9341	0.9411	0.0000	20200	20000	0.8	20.0
Benzo[g,h,i]perylene	Ave	1.032	0.995	0.0000	19300	20000	-3.6	20.0
o-Terphenyl	Lin	0.6233	0.6314	0.0000	20100	20000	0.3	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 03-APR-2013 11:45
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m
Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.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	3.704	3.704	(1.000)	500765	40.0000	
* 6 Acenaphthene-d10	164	4.792	4.792	(1.000)	364027	40.0000	
* 10 Phenanthrene-d10	188	5.739	5.739	(1.000)	687020	40.0000	
$ 14 o-Terphenyl	230	5.992	5.992	(1.044)	216882	20.0000	20.0659
* 18 Chrysene-d12	240	7.680	7.680	(1.000)	857573	40.0000	
* 23 Perylene-d12	264	8.851	8.851	(1.000)	866012	40.0000	
2 Naphthalene	128	3.722	3.722	(1.005)	250131	20.0000	19.4472
3 2-Methylnaphthalene	142	4.145	4.145	(1.119)	169659	20.0000	19.3776
4 1-Methylnaphthalene	142	4.210	4.210	(1.137)	161005	20.0000	20.4368
5 Acenaphthylene	152	4.704	4.704	(0.982)	310521	20.0000	20.6104
7 Acenaphthene	154	4.816	4.816	(1.005)	178686	20.0000	19.1486
9 Fluorene	166	5.133	5.133	(1.071)	241638	20.0000	19.4245
11 Phenanthrene	178	5.757	5.757	(1.003)	395730	20.0000	19.7773
12 Anthracene	178	5.792	5.792	(1.009)	391504	20.0000	19.3016
13 Carbazole	167	5.898	5.898	(1.028)	354598	20.0000	20.4052
15 Fluoranthene	202	6.592	6.592	(1.149)	450430	20.0000	20.3836
16 Pyrene	202	6.757	6.757	(0.880)	491523	20.0000	20.6909
17 Benzo(a)anthracene	228	7.668	7.668	(0.998)	478063	20.0000	19.3750
19 Chrysene	228	7.698	7.698	(1.002)	463959	20.0000	18.9858
20 Benzo(b)fluoranthene	252	8.509	8.509	(0.961)	508197	20.0000	20.7572
21 Benzo(k)fluoranthene	252	8.533	8.533	(0.964)	462286	20.0000	19.5227
22 Benzo(a)pyrene	252	8.798	8.798	(0.994)	456933	20.0000	19.8234
24 Indeno(1,2,3-cd)pyrene	276	9.992	9.992	(1.129)	415659	20.0000	18.9857(M)
25 Dibenzo(a,h)anthracene	278	10.009	10.009	(1.131)	407517	20.0000	20.1500
26 Benzo(g,h,i)perylene	276	10.339	10.339	(1.168)	431010	20.0000	19.2892

QC Flag Legend

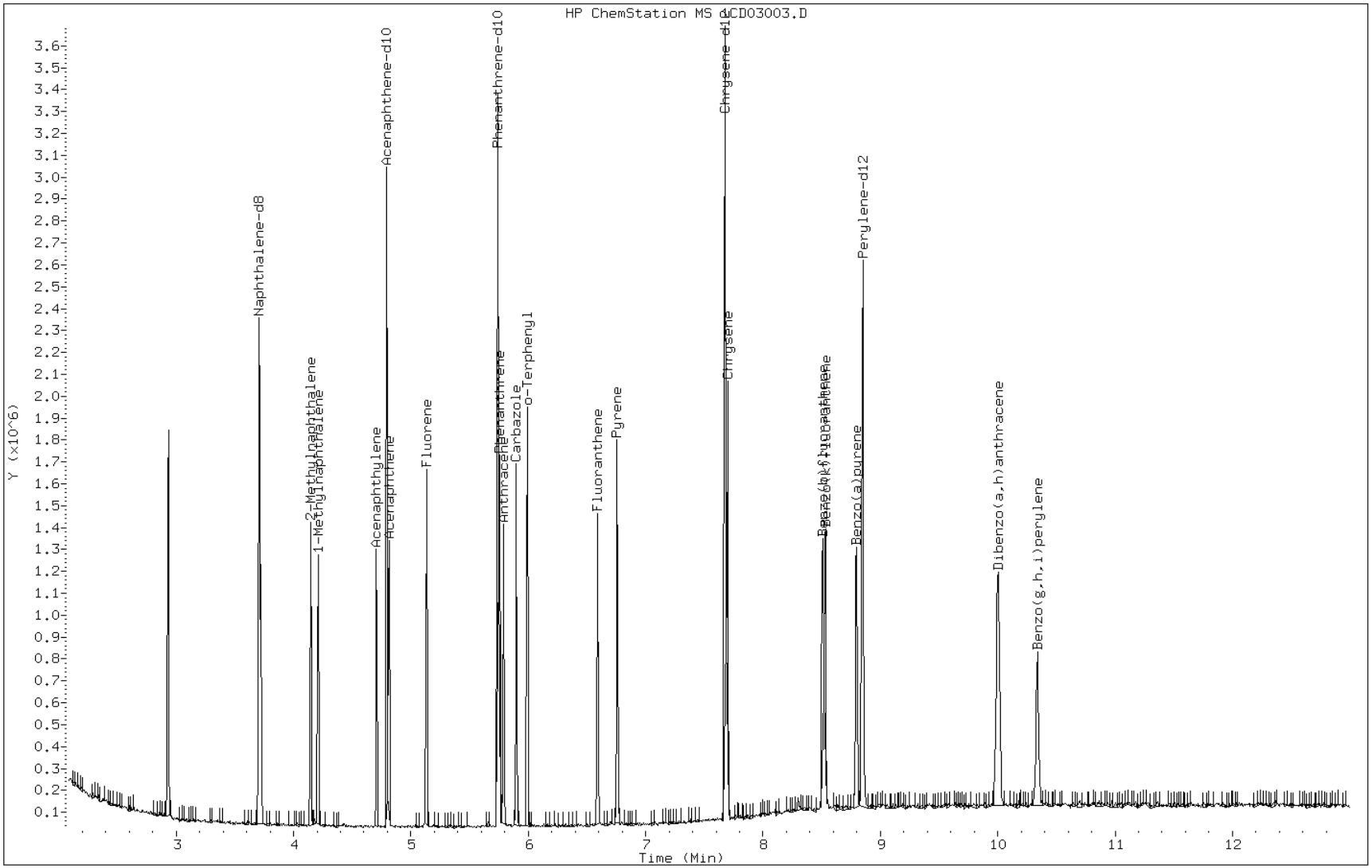
M - Compound response manually integrated.

Data File: 1CD03003.D

Date: 03-APR-2013 11:45

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1CD03003.D
Inj. Date and Time: 03-APR-2013 11:45
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

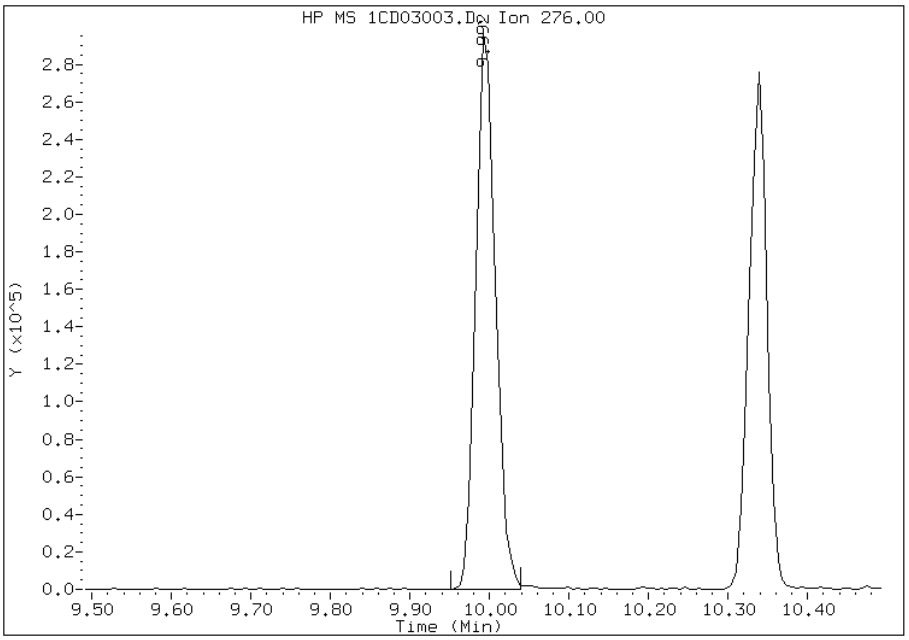
Processing Integration Results

RT: 9.99

Response: 506304

Amount: 23

Conc: 23



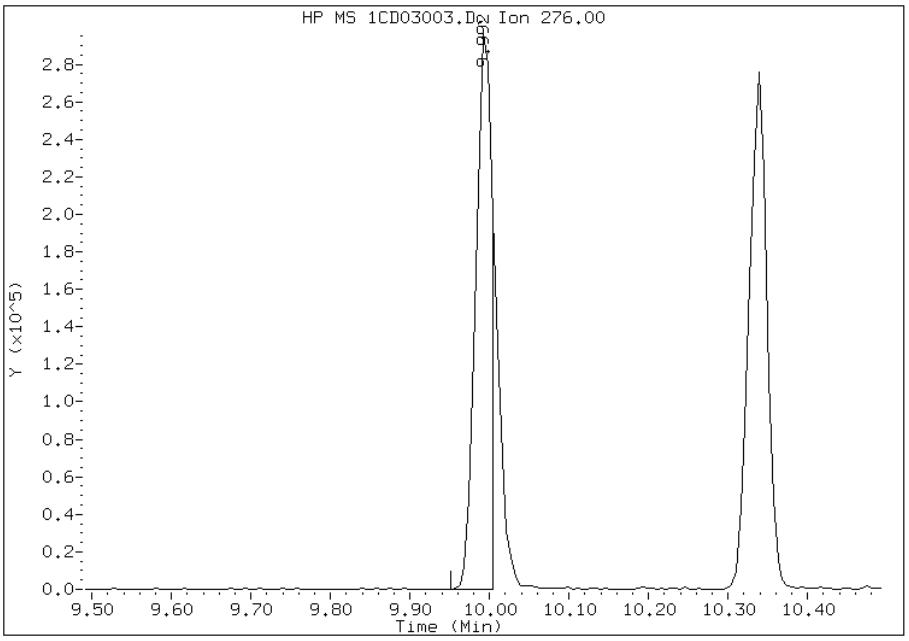
Manual Integration Results

RT: 9.99

Response: 415659

Amount: 19

Conc: 19



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

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

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

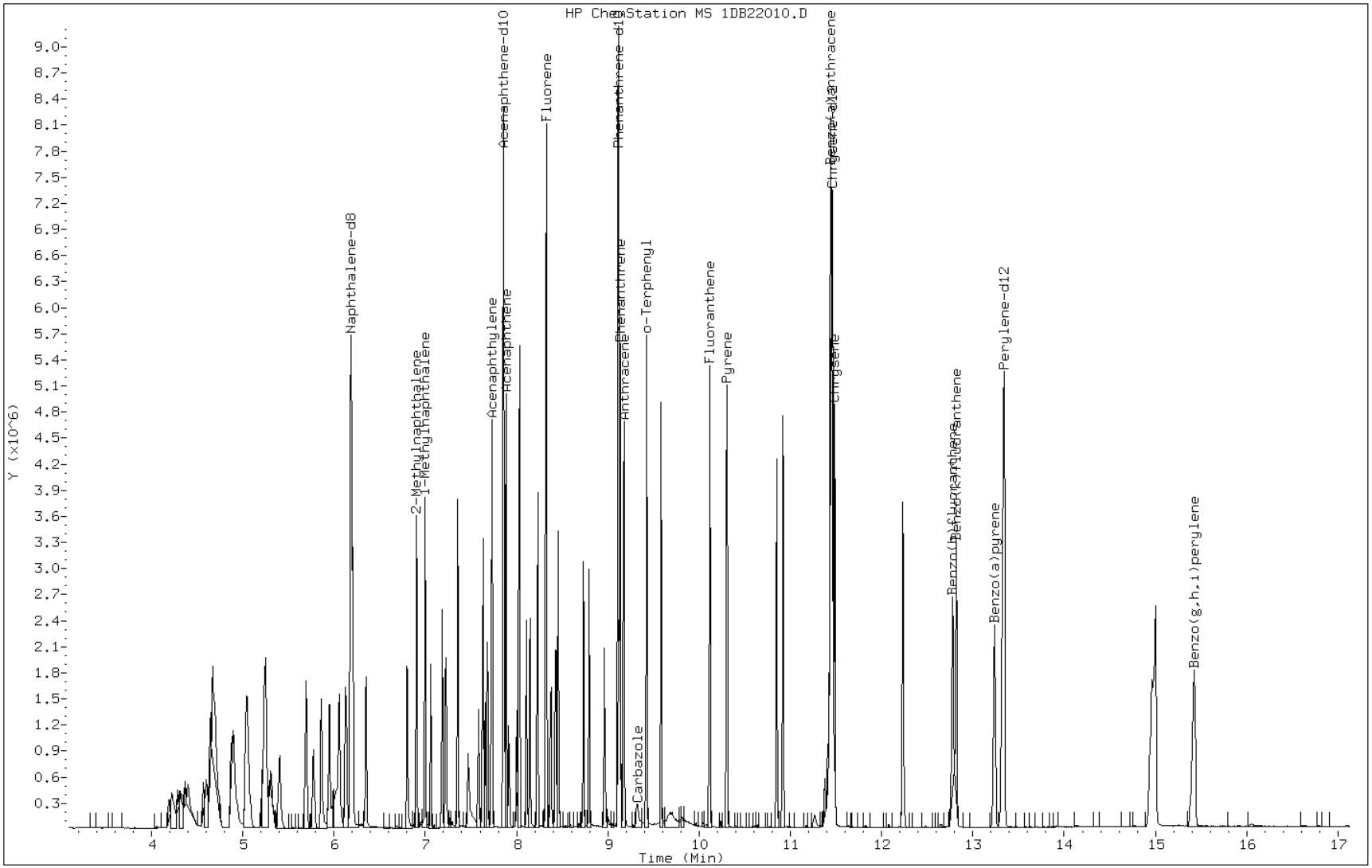
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

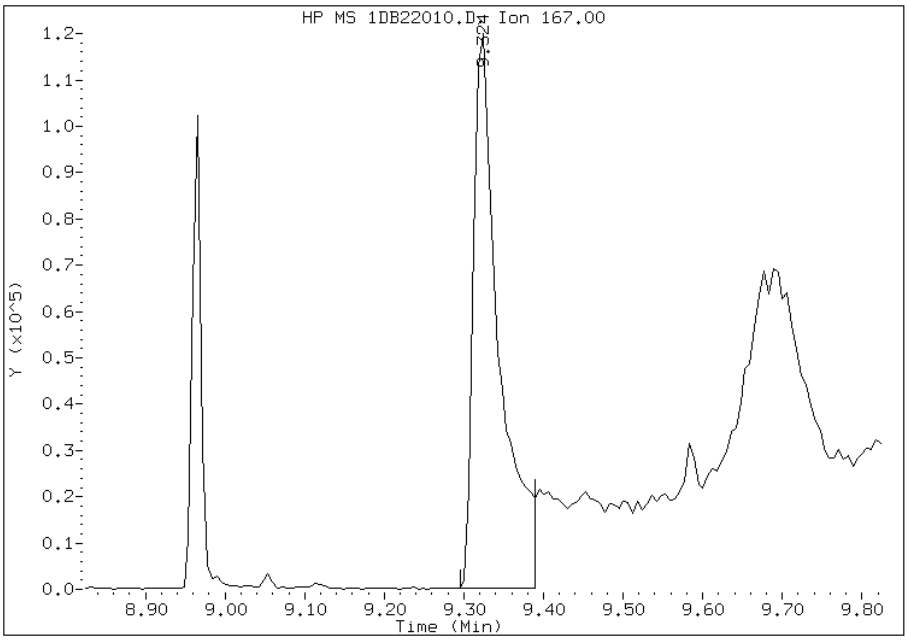
Processing Integration Results

RT: 9.32

Response: 270307

Amount: 3

Conc: 3



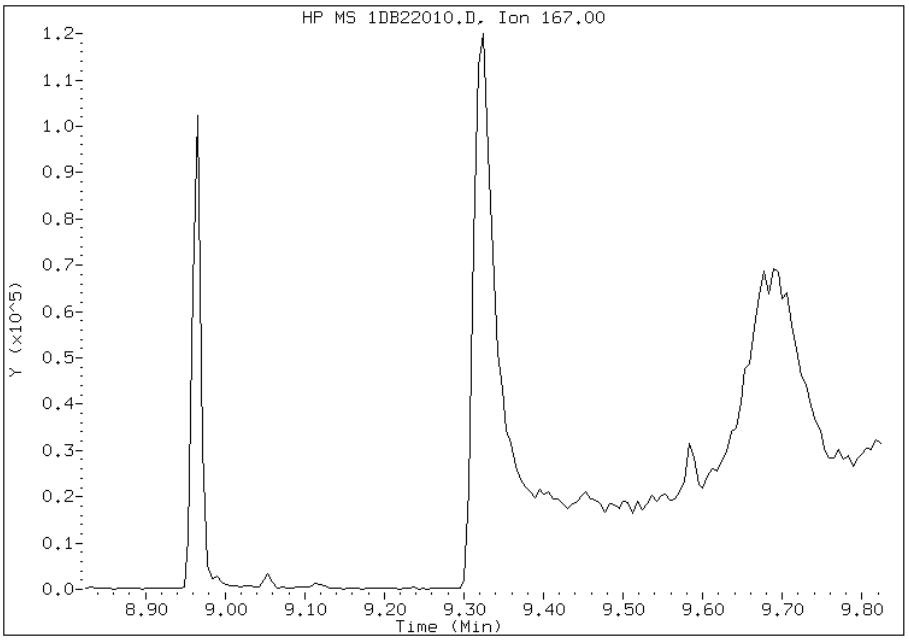
Manual Integration Results

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.: 680-88766-1

SDG No.: 68088766-1

Lab Sample ID: CCVIS 660-136118/3 Calibration Date: 04/03/2013 11:55

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: 1DD03003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.070	1.027	0.0000	19200	20000	-4.0	20.0
2-Methylnaphthalene	Ave	0.6816	0.6473	0.0000	19000	20000	-5.0	20.0
1-Methylnaphthalene	Ave	0.6383	0.6136	0.0000	19200	20000	-3.9	20.0
Acenaphthylene	Ave	1.764	1.702	0.0000	19300	20000	-3.5	20.0
Acenaphthene	Ave	1.075	1.021	0.0000	19000	20000	-5.0	20.0
Fluorene	Ave	1.256	1.202	0.0000	19100	20000	-4.3	20.0
Phenanthrene	Ave	1.135	1.085	0.0000	19100	20000	-4.5	20.0
Anthracene	Ave	1.136	1.084	0.0000	19100	20000	-4.6	20.0
Carbazole	Ave	1.016	0.9645	0.0000	19000	20000	-5.0	20.0
Fluoranthene	Ave	1.185	1.103	0.0000	18600	20000	-6.9	20.0
Pyrene	Ave	1.241	1.244	0.0000	20100	20000	0.3	20.0
Benzo[a]anthracene	LinF	1.184	1.044	0.0000	19100	20000	-4.7	20.0
Chrysene	Ave	1.131	1.036	0.0000	18300	20000	-8.4	20.0
Benzo[b]fluoranthene	Ave	1.030	1.041	0.0000	20200	20000	1.1	20.0
Benzo[k]fluoranthene	Ave	1.078	1.008	0.0000	18700	20000	-6.5	20.0
Benzo[a]pyrene	Ave	1.019	0.998	0.0000	19600	20000	-2.0	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.087	1.041	0.0000	19100	20000	-4.3	20.0
Dibenz(a,h)anthracene	Ave	1.004	0.9802	0.0000	19500	20000	-2.4	20.0
Benzo[g,h,i]perylene	Ave	1.037	1.003	0.0000	19400	20000	-3.2	20.0
o-Terphenyl	Ave	0.6186	0.5880	0.0000	19000	20000	-4.9	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040313.b\1DD03003.D
Lab Smp Id: CCVIS-1512372
Inj Date : 03-APR-2013 11:55
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCVIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040313.b\dFASTPAHi.m
Meth Date : 03-Apr-2013 12:14 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.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/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.083	6.083	(1.000)	1684268	40.0000	(H)
* 6 Acenaphthene-d10	164	7.764	7.764	(1.000)	988686	40.0000	(H)
* 9 Phenanthrene-d10	188	9.027	9.027	(1.000)	1568221	40.0000	(H)
$ 13 o-Terphenyl	230	9.338	9.338	(1.034)	461038	20.0000	19(H)
* 17 Chrysene-d12	240	11.348	11.348	(1.000)	1495388	40.0000	(H)
* 22 Perylene-d12	264	13.187	13.187	(1.000)	1508189	40.0000	(H)
2 Naphthalene	128	6.107	6.107	(1.004)	864940	20.0000	19(H)
3 2-Methylnaphthalene	142	6.812	6.812	(1.120)	545137	20.0000	19(H)
4 1-Methylnaphthalene	142	6.906	6.906	(1.135)	516748	20.0000	19(H)
5 Acenaphthylene	152	7.640	7.640	(0.984)	841206	20.0000	19(H)
7 Acenaphthene	154	7.793	7.793	(1.004)	504705	20.0000	19(H)
8 Fluorene	166	8.234	8.234	(1.061)	594443	20.0000	19(H)
10 Phenanthrene	178	9.045	9.045	(1.002)	850582	20.0000	19(H)
11 Anthracene	178	9.086	9.086	(1.007)	850148	20.0000	19(H)
12 Carbazole	167	9.227	9.227	(1.022)	756293	20.0000	19(H)
14 Fluoranthene	202	10.032	10.032	(1.111)	865067	20.0000	19(H)
15 Pyrene	202	10.220	10.220	(0.901)	930442	20.0000	20(H)
16 Benzo(a)anthracene	228	11.330	11.330	(0.998)	780639	20.0000	19(H)
18 Chrysene	228	11.371	11.371	(1.002)	774255	20.0000	18(H)
19 Benzo(b)fluoranthene	252	12.646	12.646	(0.959)	784975	20.0000	20(H)
20 Benzo(k)fluoranthene	252	12.682	12.682	(0.962)	760083	20.0000	19(H)
21 Benzo(a)pyrene	252	13.099	13.099	(0.993)	752763	20.0000	20(H)
23 Indeno(1,2,3-cd)pyrene	276	14.791	14.791	(1.122)	784931	20.0000	19(MH)
24 Dibenzo(a,h)anthracene	278	14.820	14.820	(1.124)	739130	20.0000	20(H)
25 Benzo(g,h,i)perylene	276	15.232	15.232	(1.155)	756577	20.0000	19(H)

QC Flag Legend

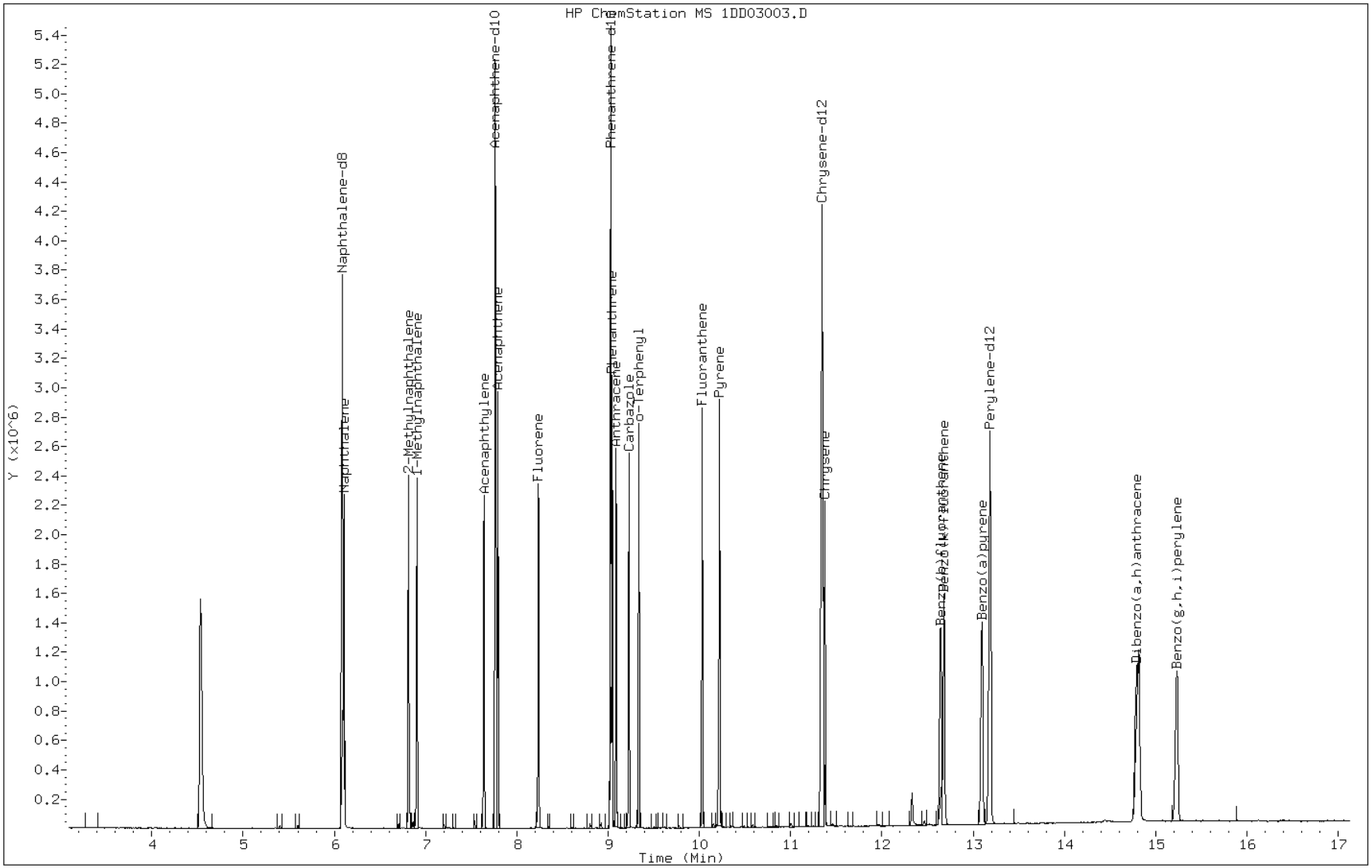
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DD03003.D

Date: 03-APR-2013 11:55

Client ID: Instrument: BSMSD.i

Sample Info: CCVIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1DD03003.D
Inj. Date and Time: 03-APR-2013 11:55
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/04/2013

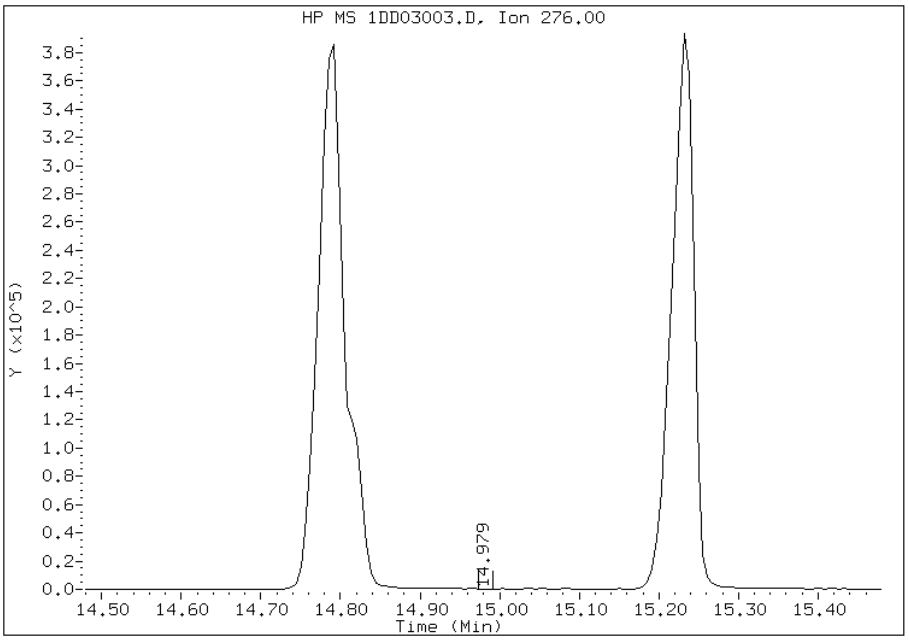
Processing Integration Results

RT: 14.98

Response: 245

Amount: 0

Conc: 0



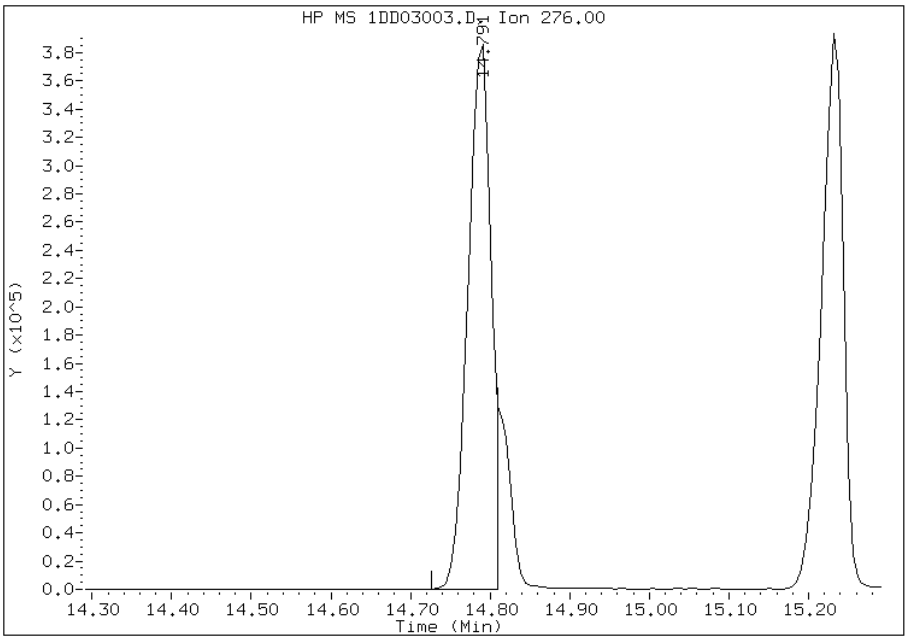
Manual Integration Results

RT: 14.79

Response: 784931

Amount: 19

Conc: 19



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 12:17
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 02-APR-2013 11:31
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.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

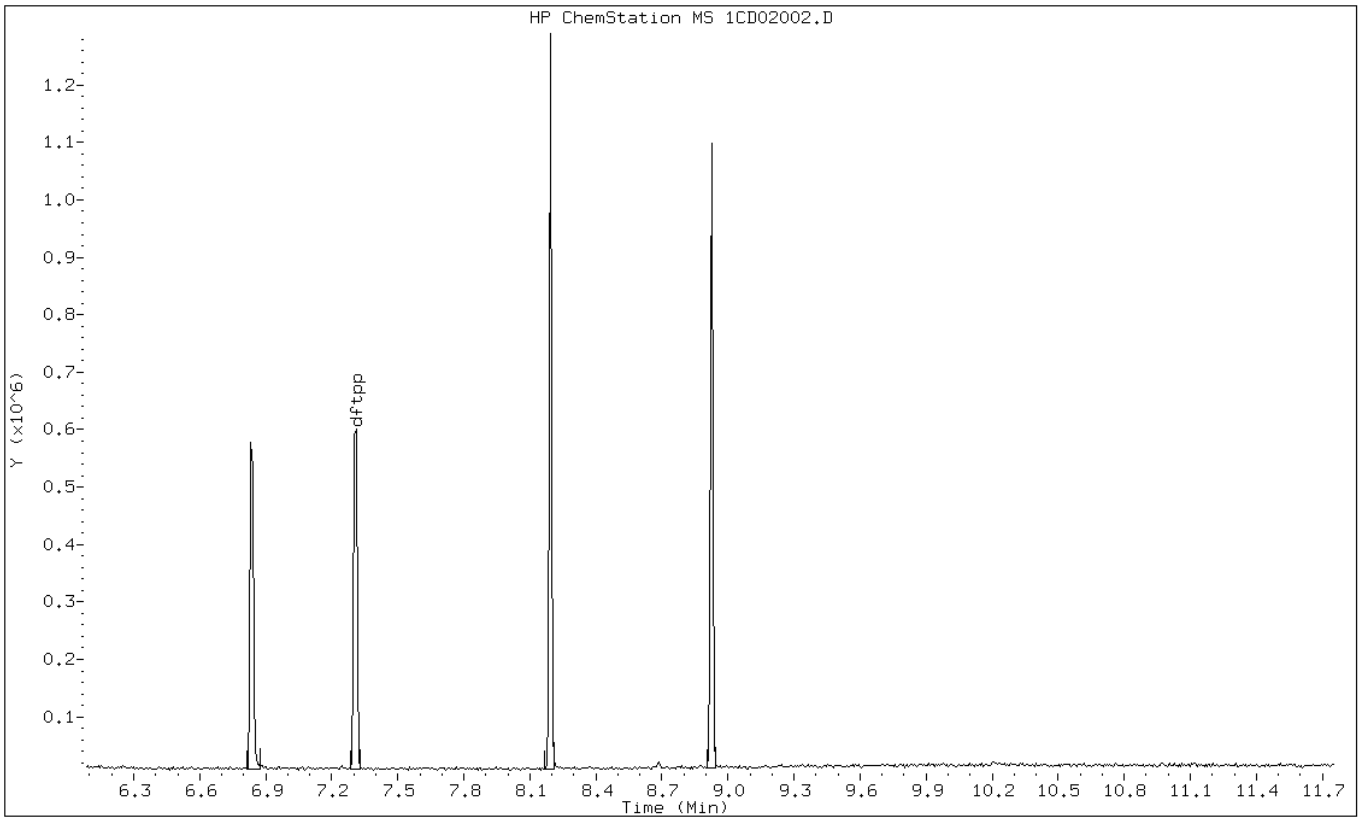
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.310	7.469	-0.159	198	70432			50.00- 0.00	100.00
7.310	7.469	-0.159	51	24576			10.00- 80.00	34.89
7.310	7.469	-0.159	68	571			0.00- 2.00	1.62
7.310	7.469	-0.159	69	35176			0.00- 0.00	49.94
7.310	7.469	-0.159	70	308			0.00- 2.00	0.88
7.310	7.469	-0.159	127	29688			10.00- 80.00	42.15
7.310	7.469	-0.159	197	310			0.00- 2.00	0.44
7.310	7.469	-0.159	442	39944			50.00- 0.00	56.71
7.310	7.469	-0.159	199	5383			5.00- 9.00	7.64
7.310	7.469	-0.159	275	15117			10.00- 60.00	21.46
7.310	7.469	-0.159	365	2390			1.00- 0.00	3.39
7.310	7.469	-0.159	441	7169			0.01- 99.99	92.67
7.310	7.469	-0.159	443	7736			15.00- 24.00	19.37

Data File: 1CD02002.D

Date: 02-APR-2013 11:31

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 | Operator: SCC



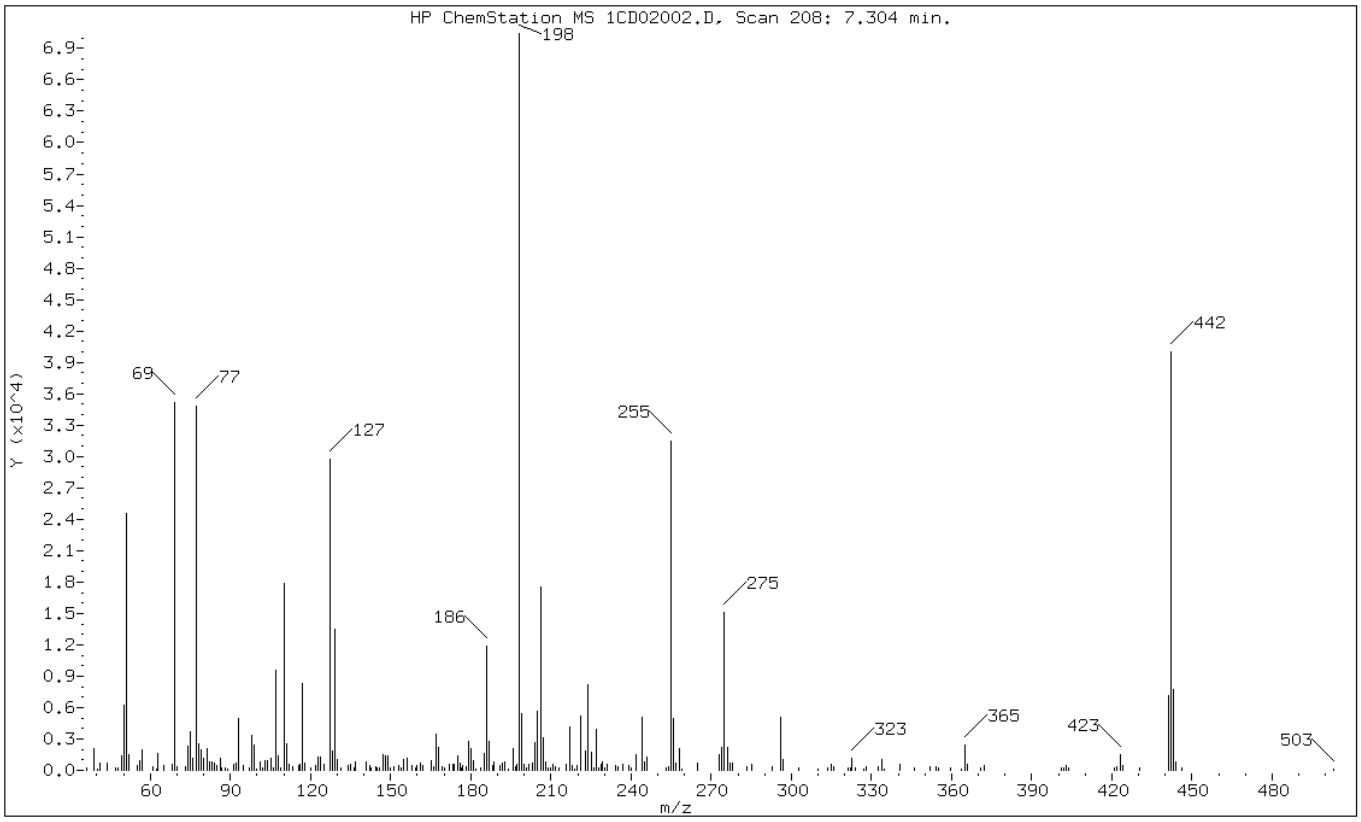
Data File: 1CD02002.D

Date: 02-APR-2013 11:31

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	34.89
68	Less than 2.00% of mass 69	0.81 (1.62)
69	Mass 69 relative abundance	49.94
70	Less than 2.00% of mass 69	0.44 (0.88)
127	10.00 - 80.00% of mass 198	42.15
197	Less than 2.00% of mass 198	0.44
442	Greater than 50.00% of mass 198	56.71
199	5.00 - 9.00% of mass 198	7.64
275	10.00 - 60.00% of mass 198	21.46
365	Greater than 1.00% of mass 198	3.39
441	Present, but less than mass 443	10.18
443	15.00 - 24.00% of mass 442	10.98 (19.37)

Data File: 1CD02002.D

Date: 02-APR-2013 11:31

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213_PAHIC.b\1CD02002.D
Spectrum: HP ChemStation MS 1CD02002.D, Scan 208: 7.304 min.
Location of Maximum: 198.00
Number of points: 229

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.20	191	113.10	351	185.10	1649	258.00	2060
39.00	2089	115.80	410	186.00	11880	259.00	166
40.10	156	116.20	563	187.00	2755	265.00	700
41.20	672	117.00	8338	188.30	505	273.00	1556
44.00	691	118.00	714	188.80	850	274.00	2191
46.90	264	120.20	251	190.90	451	275.00	15117
48.00	207	122.00	433	192.00	717	276.10	2178
49.10	1329	122.90	1302	192.90	774	276.90	747
50.10	6281	123.80	1270	193.90	161	278.10	714
51.10	24576	125.10	560	195.90	2063	283.20	367
52.10	1487	127.10	29688	196.70	310	285.10	604
55.00	486	128.00	1837	197.10	545	293.00	386
56.10	964	129.10	13517	198.00	70432	296.00	5053
57.00	1965	130.00	1041	199.00	5383	297.00	1014
60.80	304	131.20	273	200.10	567	302.80	285
62.30	156	134.00	480	200.60	270	310.10	151
63.00	1637	134.90	620	201.50	554	313.70	217
65.00	481	136.20	200	203.00	654	315.00	561
68.10	571	137.00	811	204.10	2706	316.00	397
69.00	35176	140.90	765	205.10	5687	321.20	252
69.90	308	142.10	410	206.10	17552	322.00	188
73.00	304	142.70	282	207.10	3108	322.80	1174
74.10	2331	144.30	362	208.00	798	324.00	267
75.00	3676	145.00	189	208.90	282	327.10	153
76.00	1155	145.90	247	210.00	219	328.20	395
77.10	34856	147.10	1448	210.90	584	332.70	292
78.10	2489	148.00	1427	211.50	320	333.90	1034
79.10	1952	149.00	1344	213.00	214	334.60	151
80.10	1105	150.00	235	215.70	551	340.80	534
81.10	2019	151.00	357	217.00	4128	346.10	272
82.00	853	153.00	443	217.90	509	352.10	376
83.00	779	153.90	266	218.80	152	354.20	383
83.80	657	155.00	984	219.60	431	354.90	200
84.90	486	156.00	1110	221.00	5183	359.50	267
86.10	1181	157.80	502	223.10	1793	363.80	168
86.90	260	159.30	205	224.00	8192	365.00	2390
88.00	245	159.90	477	225.20	1759	365.90	597
89.10	155	161.10	679	226.10	240	370.80	193
91.10	583	162.00	441	227.00	3893	372.00	411
92.10	667	165.10	934	227.90	218	401.00	218

93.00	5005	166.00	385	228.70	623	402.10	194
95.00	495	167.00	3405	229.10	783	402.90	407
96.90	195	168.00	2215	230.00	287	403.80	197
98.00	3343	169.20	374	231.10	622	420.70	267
99.00	2408	170.30	186	234.00	423	421.10	211
100.00	162	172.10	634	234.90	390	422.00	318
101.00	782	173.10	602	236.90	598	423.00	1535
102.10	189	173.70	532	239.10	486	424.00	439
103.10	884	175.10	1337	240.10	221	430.30	186
104.00	939	176.00	727	242.00	1442	441.00	7169
105.00	1194	176.60	217	244.10	5072	442.00	39944
106.00	180	177.10	501	245.20	829	443.00	7736
107.00	9612	178.10	387	246.00	1322	444.00	786
108.00	1350	179.00	2811	253.10	269	446.00	182
109.00	183	180.10	2065	254.10	289	503.00	171
110.00	17856	181.00	967	255.00	31424		
111.00	2511	181.80	164	256.00	4972		
112.10	622	183.90	209	256.90	650		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02014.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 02-APR-2013 16:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 13 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

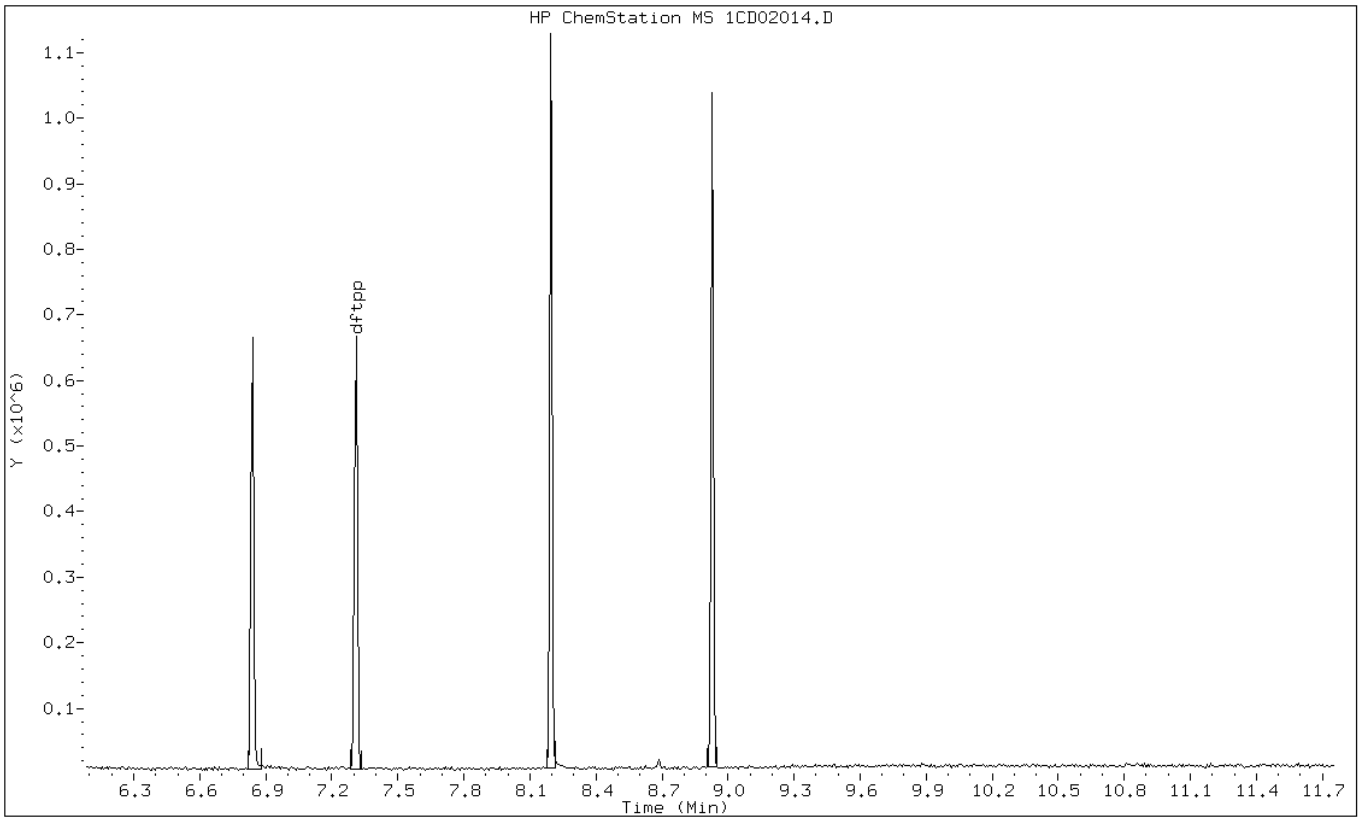
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.310	7.469	-0.159	198	73584			50.00- 0.00	100.00
7.310	7.469	-0.159	51	23816			10.00- 80.00	32.37
7.310	7.469	-0.159	68	194			0.00- 2.00	0.55
7.310	7.469	-0.159	69	35080			0.00- 0.00	47.67
7.310	7.469	-0.159	70	232			0.00- 2.00	0.66
7.310	7.469	-0.159	127	36256			10.00- 80.00	49.27
7.310	7.469	-0.159	197	676			0.00- 2.00	0.92
7.310	7.469	-0.159	442	63944			50.00- 0.00	86.90
7.310	7.469	-0.159	199	4868			5.00- 9.00	6.62
7.310	7.469	-0.159	275	17632			10.00- 60.00	23.96
7.310	7.469	-0.159	365	2684			1.00- 0.00	3.65
7.310	7.469	-0.159	441	7480			0.01- 99.99	53.25
7.310	7.469	-0.159	443	14047			15.00- 24.00	21.97

Data File: 1CD02014.D

Date: 02-APR-2013 16:23

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 | Operator: SCC



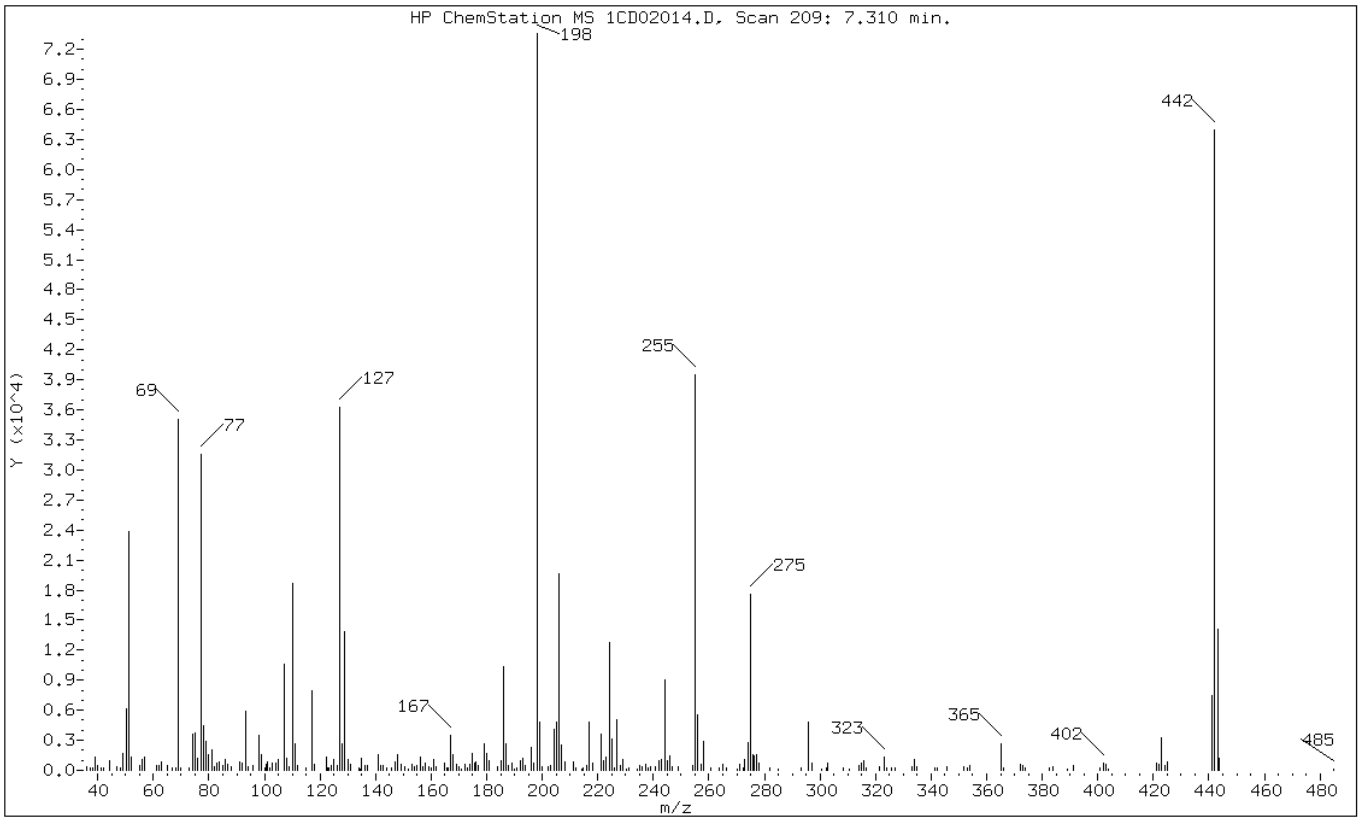
Data File: 1CD02014.D

Date: 02-APR-2013 16:23

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	32.37
68	Less than 2.00% of mass 69	0.26 (0.55)
69	Mass 69 relative abundance	47.67
70	Less than 2.00% of mass 69	0.32 (0.66)
127	10.00 - 80.00% of mass 198	49.27
197	Less than 2.00% of mass 198	0.92
442	Greater than 50.00% of mass 198	86.90
199	5.00 - 9.00% of mass 198	6.62
275	10.00 - 60.00% of mass 198	23.96
365	Greater than 1.00% of mass 198	3.65
441	Present, but less than mass 443	10.17
443	15.00 - 24.00% of mass 442	19.09 (21.97)

Data File: 1CD02014.D

Date: 02-APR-2013 16:23

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1CD02014.D
Spectrum: HP ChemStation MS 1CD02014.D, Scan 209: 7.310 min.
Location of Maximum: 198.00
Number of points: 245

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	418	114.80	280	187.80	452	272.40	216
37.20	209	117.00	7921	189.00	683	273.00	1060
38.10	232	118.00	624	189.80	153	274.00	2749
39.00	1379	122.10	1319	191.00	201	275.00	17632
40.10	451	122.60	260	192.00	942	275.80	1543
41.10	248	123.10	237	193.10	1178	276.10	1470
42.10	186	124.10	439	193.90	432	277.20	1565
44.10	996	125.00	1125	196.00	2341	278.00	749
47.00	389	126.00	515	197.10	676	282.10	227
48.20	236	127.00	36256	198.00	73584	285.10	155
49.00	1671	128.00	2639	199.00	4868	293.20	275
50.10	6122	129.00	13905	199.90	363	296.00	4818
51.10	23816	130.00	1082	202.00	380	296.90	771
52.10	1372	131.20	548	203.10	500	300.60	162
55.20	424	133.90	259	204.10	4128	302.10	280
56.10	1076	134.30	180	205.00	4848	302.80	762
57.00	1269	135.00	1251	206.10	19608	308.20	203
61.00	505	136.10	493	207.00	2565	310.60	152
61.90	433	136.90	450	208.20	879	313.90	457
63.10	900	140.90	1507	211.10	821	315.00	709
65.10	453	142.00	472	212.00	181	315.90	991
67.00	290	142.90	489	214.10	152	316.70	260
68.00	194	144.10	300	214.80	299	321.20	364
69.00	35080	145.90	252	216.00	456	323.10	1302
70.00	232	147.00	811	216.90	4773	324.10	200
72.70	195	147.90	1618	218.00	720	325.90	190
73.00	247	149.00	619	221.10	3644	327.00	300
74.10	3607	150.50	330	222.00	908	332.90	322
75.00	3736	152.00	180	222.90	1270	334.10	1105
76.10	1179	153.00	608	224.10	12732	335.00	335
77.10	31536	154.10	343	225.00	3149	341.30	251
78.10	4512	155.00	424	225.90	249	342.10	183
79.00	2894	156.10	1318	227.00	5001	345.80	393
80.00	1507	157.10	374	228.00	518	351.90	355
81.00	2096	157.80	757	229.00	1044	353.10	299
82.00	371	159.00	351	230.10	172	354.00	426
83.00	705	159.90	262	231.10	181	365.00	2684
83.80	879	160.90	1143	234.00	172	366.00	281
84.90	459	161.90	345	235.00	526	372.00	645
86.00	1079	165.00	683	236.00	376	373.00	433

86.90	571	165.80	222	237.10	643	374.00	216
88.20	327	166.20	292	237.90	184	382.50	222
91.00	826	167.10	3455	239.10	374	384.00	367
92.00	703	168.00	1506	240.90	321	388.90	177
93.10	5941	169.10	592	242.00	973	391.10	423
94.20	347	170.00	391	242.90	1041	400.60	241
96.00	468	171.10	163	244.10	9004	401.90	710
98.10	3544	172.00	647	244.90	1010	403.00	546
99.00	1620	173.00	191	245.90	1419	404.00	173
100.00	262	174.10	620	246.90	375	421.10	667
100.70	626	175.00	1630	248.80	313	421.90	609
101.10	788	175.80	684	254.10	445	423.00	3224
102.00	226	176.20	796	255.00	39480	424.10	447
102.90	663	176.80	511	256.00	5597	425.10	887
104.00	757	177.10	349	257.10	604	441.00	7480
105.10	1033	179.00	2593	258.00	2943	442.00	63944
107.10	10587	179.90	1715	260.70	281	443.10	14047
108.00	1260	181.00	983	263.70	225	443.90	1249
109.00	393	183.70	311	264.90	627	484.90	150
110.00	18704	185.10	1003	266.10	236		
111.00	2615	186.10	10352	270.10	174		
112.00	450	187.10	2621	271.20	569		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 03-APR-2013 11:28
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.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

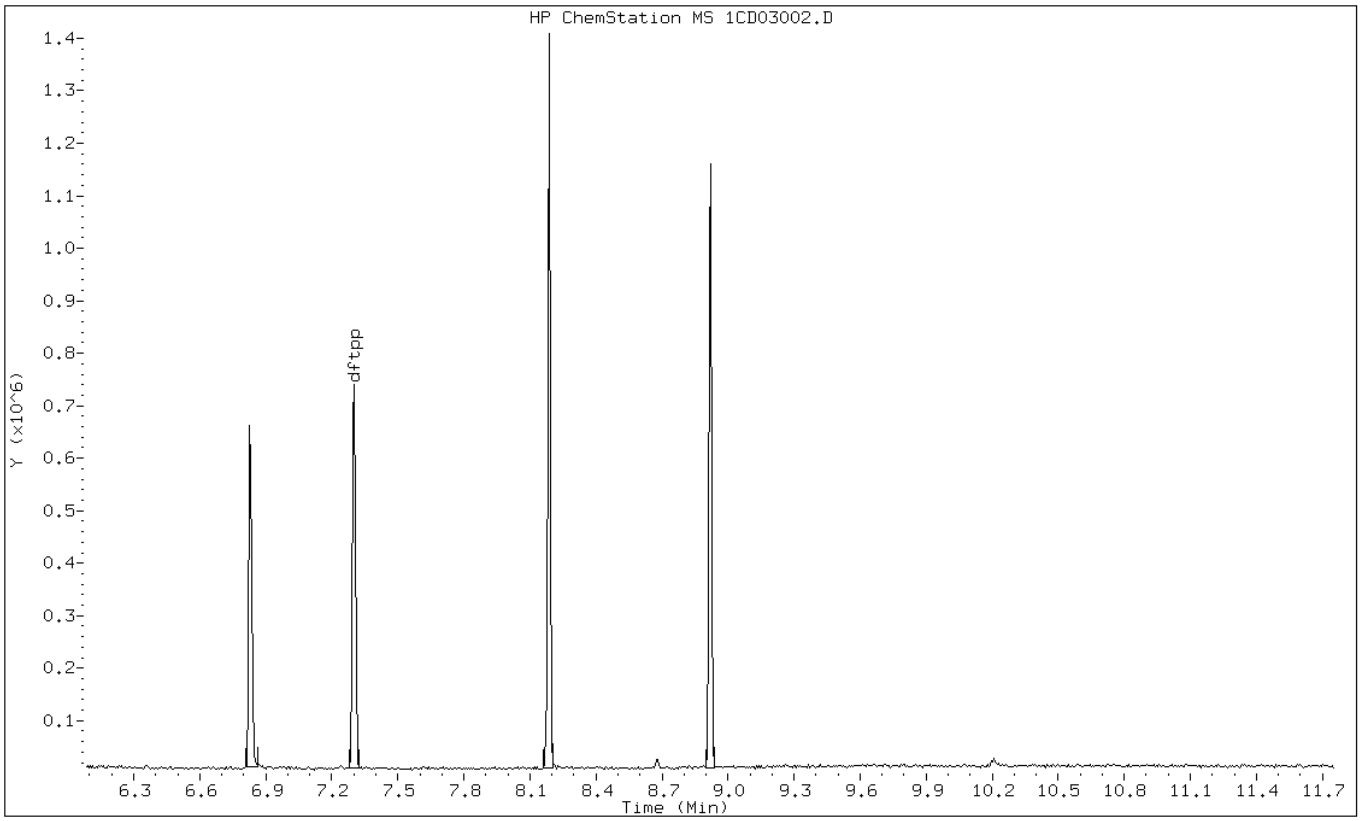
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.304	7.469	-0.165	198	75560			50.00- 0.00	100.00
7.304	7.469	-0.165	51	32256			10.00- 80.00	42.69
7.304	7.469	-0.165	68	431			0.00- 2.00	1.15
7.304	7.469	-0.165	69	37536			0.00- 0.00	49.68
7.304	7.469	-0.165	70	0	0.0	0.0	0.00- 2.00	0.00
7.304	7.469	-0.165	127	36336			10.00- 80.00	48.09
7.304	7.469	-0.165	197	0	0.0	0.0	0.00- 2.00	0.00
7.304	7.469	-0.165	442	46072			50.00- 0.00	60.97
7.304	7.469	-0.165	199	4654			5.00- 9.00	6.16
7.304	7.469	-0.165	275	14882			10.00- 60.00	19.70
7.304	7.469	-0.165	365	1786			1.00- 0.00	2.36
7.304	7.469	-0.165	441	5248			0.01- 99.99	68.32
7.304	7.469	-0.165	443	7681			15.00- 24.00	16.67

Data File: 1CD03002.D

Date: 03-APR-2013 11:28

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 | Operator: SCC



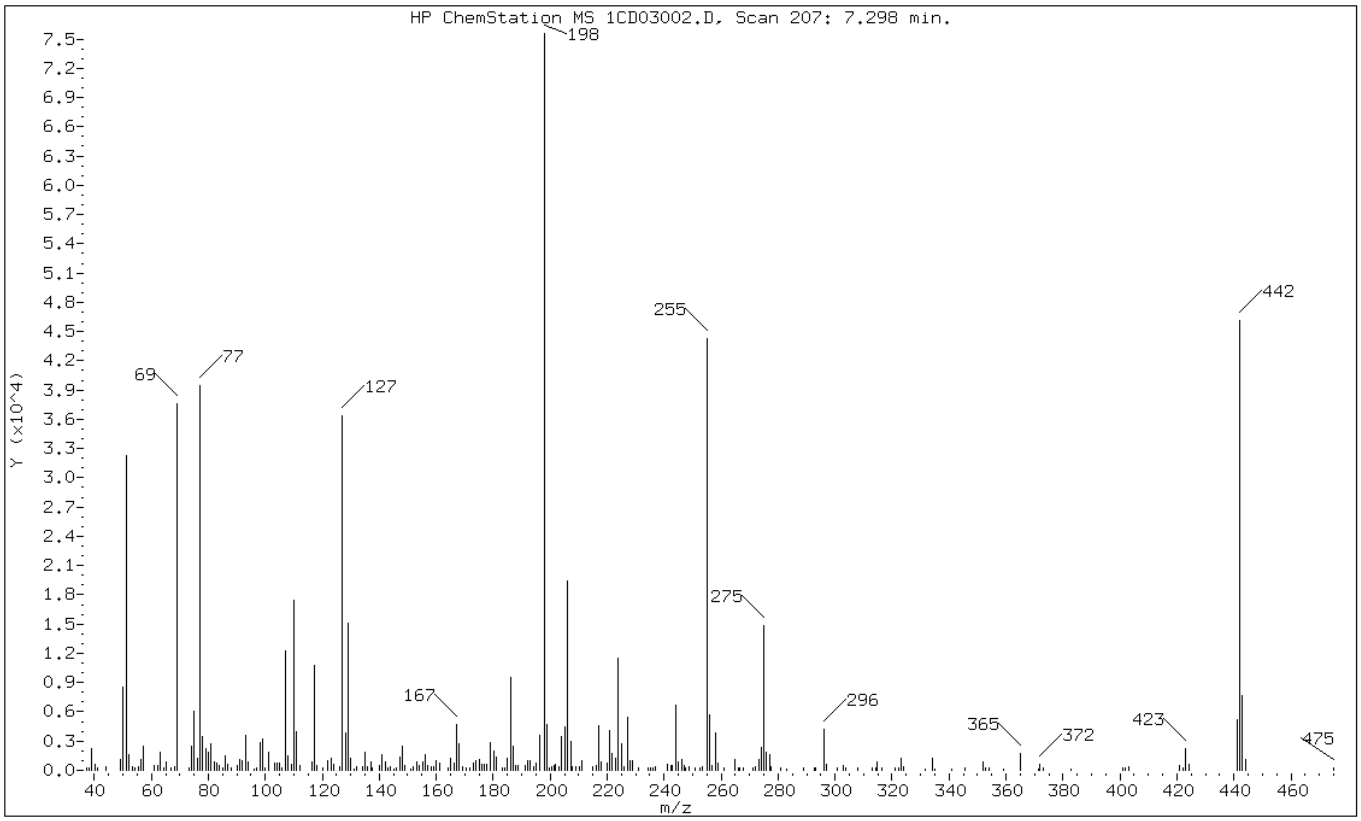
Data File: 1CD03002.D

Date: 03-APR-2013 11:28

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	42.69
68	Less than 2.00% of mass 69	0.57 (1.15)
69	Mass 69 relative abundance	49.68
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	48.09
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	60.97
199	5.00 - 9.00% of mass 198	6.16
275	10.00 - 60.00% of mass 198	19.70
365	Greater than 1.00% of mass 198	2.36
441	Present, but less than mass 443	6.95
443	15.00 - 24.00% of mass 442	10.17 (16.67)

Data File: 1CD03002.D

Date: 03-APR-2013 11:28

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03002.D
Spectrum: HP ChemStation MS 1CD03002.D, Scan 207: 7.298 min.
Location of Maximum: 198.00
Number of points: 240

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.30	192	117.10	10764	188.00	493	266.00	218
38.00	283	118.00	527	188.90	513	266.70	201
39.10	2239	120.10	245	191.10	499	267.90	235
40.10	585	122.00	935	192.00	1043	271.10	199
40.90	297	123.10	1247	192.90	1024	272.10	327
44.10	330	123.90	604	194.10	332	273.10	1066
49.00	1129	126.00	335	195.20	727	274.00	2324
50.10	8491	127.10	36336	196.10	3641	275.00	14882
51.10	32256	128.10	3781	198.00	75560	276.00	1830
52.10	1581	129.00	15116	199.00	4654	277.00	1659
53.20	336	130.00	1263	199.90	276	277.70	402
54.10	256	131.20	159	200.60	335	281.00	220
55.30	348	132.00	334	201.20	451	282.80	180
56.20	1156	134.10	331	202.00	580	289.00	293
57.10	2512	135.10	1813	203.20	332	292.70	189
60.90	464	135.90	409	204.10	3436	293.20	284
62.10	453	137.00	852	205.00	4509	296.00	4228
63.00	1830	137.70	212	206.10	19472	297.00	626
64.20	214	140.10	437	207.10	2922	300.80	203
65.00	826	141.00	1569	207.90	382	303.00	545
66.80	196	142.10	863	209.10	415	303.80	201
68.00	431	143.00	262	210.20	312	308.00	262
69.10	37536	144.00	331	211.00	973	313.00	225
73.10	264	145.00	171	214.90	410	314.10	209
74.10	2431	146.00	305	216.00	506	314.90	815
75.10	6014	147.10	1301	217.00	4568	316.30	293
76.10	1227	148.10	2447	218.00	865	321.00	250
77.10	39480	149.00	456	220.20	718	322.20	285
78.00	3407	151.10	166	221.00	4124	323.00	1264
79.10	2246	152.10	368	221.70	1716	324.00	356
80.00	1895	153.00	900	223.10	1261	331.80	174
81.00	2668	154.10	515	224.00	11463	334.00	1232
82.10	879	155.10	863	225.10	2700	334.90	167
83.10	764	156.10	1663	226.00	418	340.90	178
84.00	475	157.00	538	227.00	5402	345.50	200
85.00	238	158.10	315	227.90	949	345.70	201
86.00	1545	159.10	361	229.00	1026	352.00	846
86.80	591	160.10	1033	231.00	287	352.90	228
88.00	244	161.10	710	234.20	305	354.00	283
90.00	555	164.00	222	235.10	301	359.10	153

90.90	1058	165.10	1243	236.10	289	364.90	1786
92.00	991	166.10	702	237.00	410	371.30	185
93.00	3605	167.00	4706	241.10	620	371.90	659
94.10	821	168.10	2729	242.20	454	373.00	302
96.10	182	169.20	408	242.90	481	382.70	163
97.10	261	170.70	259	244.00	6719	400.90	212
98.00	2850	171.80	303	245.00	898	402.00	306
99.10	3237	173.10	799	246.10	1119	403.00	361
100.10	191	174.10	994	247.10	479	420.80	515
101.10	1802	175.10	1080	247.60	278	422.10	230
103.10	791	176.10	603	248.80	422	422.90	2199
104.10	795	177.00	595	250.70	208	424.10	620
105.10	697	177.60	617	252.60	245	441.00	5248
105.70	251	179.10	2842	253.60	315	442.00	46072
107.00	12235	180.10	1998	255.00	44296	443.00	7681
108.10	1536	180.90	1327	256.10	5661	444.00	1055
109.10	670	183.40	224	256.80	459	475.00	248
110.10	17424	184.10	220	258.00	3829		
111.00	3940	185.00	1287	259.10	709		
112.20	440	186.10	9570	260.90	205		
116.20	866	187.10	2436	265.00	1167		

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

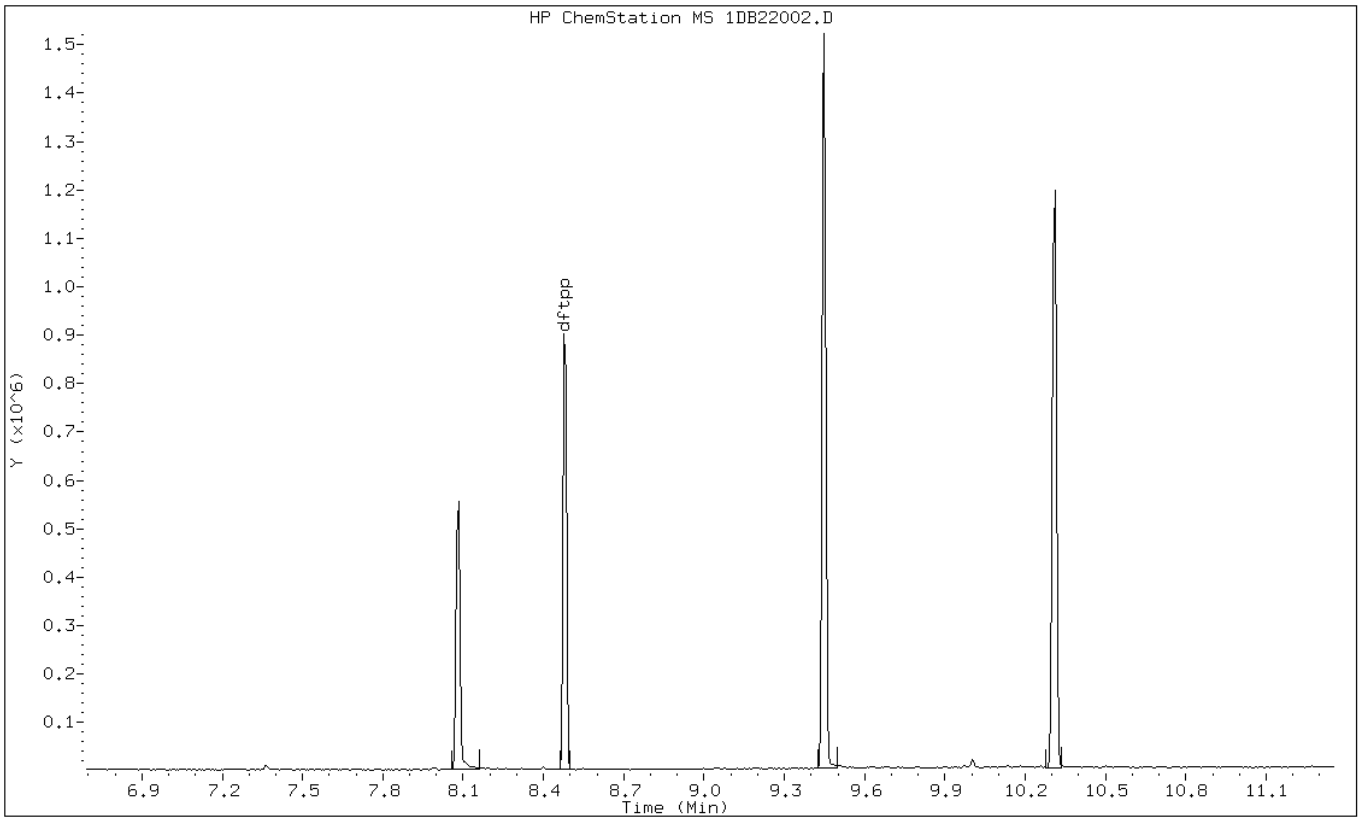
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.477	8.532	-0.055	198	100672			50.00- 0.00	100.00
8.477	8.532	-0.055	51	47200			10.00- 80.00	46.88
8.477	8.532	-0.055	68	0	0.0	0.0	0.00- 2.00	0.00
8.477	8.532	-0.055	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



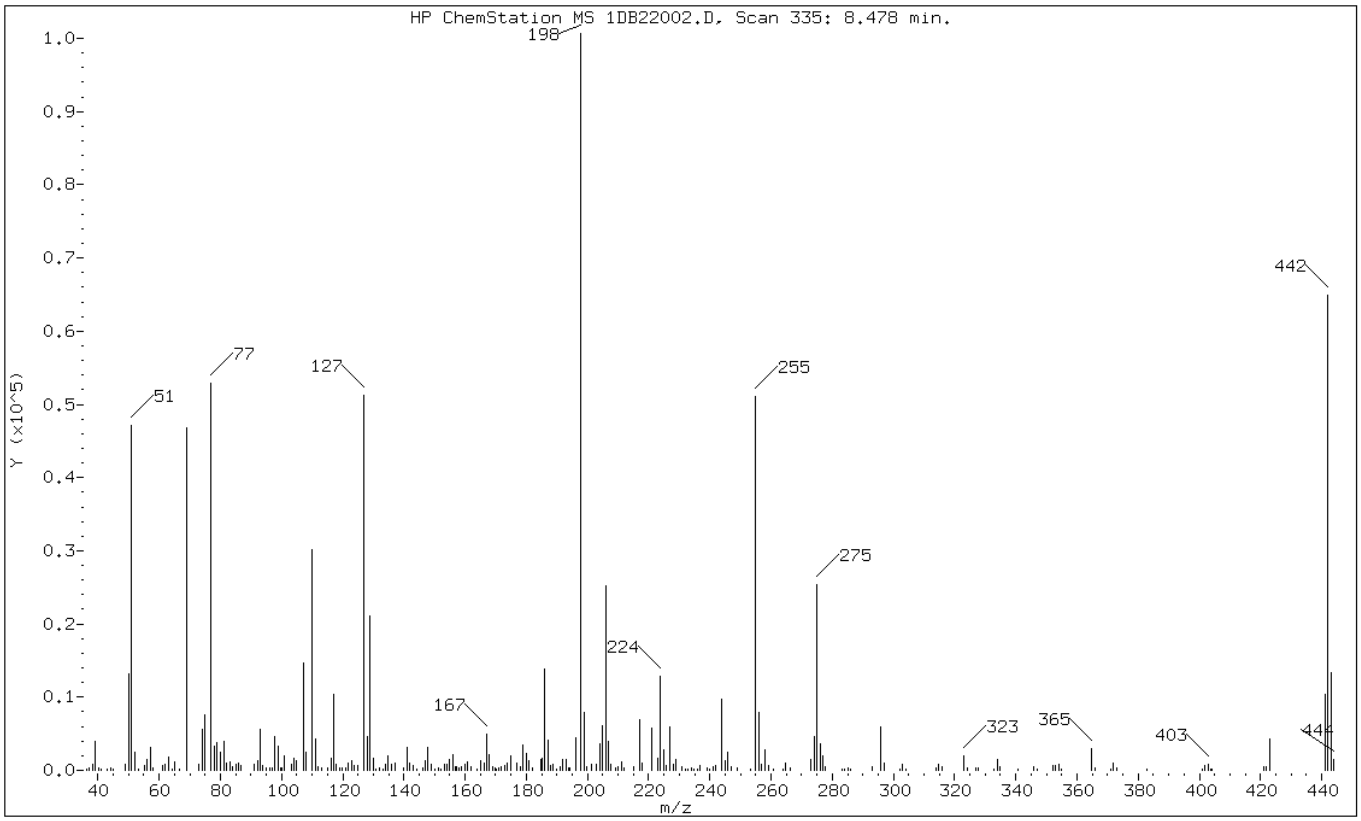
Data File: 1DB22002.D

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\1D040313.b\1DD03002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 03-APR-2013 11:38
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040313.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

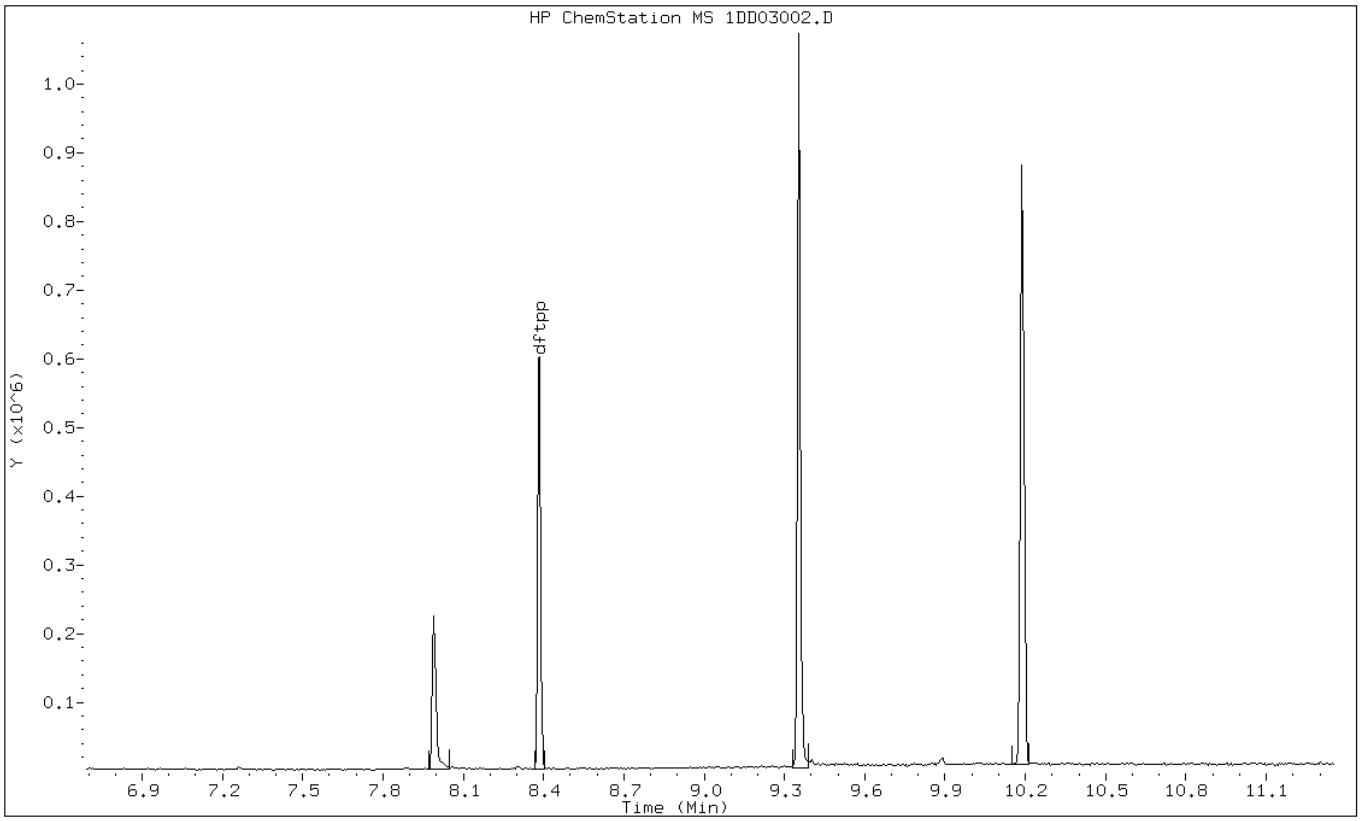
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.386	8.532	-0.146	198	64800			50.00- 0.00	100.00
8.386	8.532	-0.146	51	27760			10.00- 80.00	42.84
8.386	8.532	-0.146	68	0	0.0	0.0	0.00- 2.00	0.00
8.386	8.532	-0.146	69	27696			0.00- 0.00	42.74
8.386	8.532	-0.146	70	219			0.00- 2.00	0.79
8.386	8.532	-0.146	127	32764			10.00- 80.00	50.56
8.386	8.532	-0.146	197	0	0.0	0.0	0.00- 2.00	0.00
8.386	8.532	-0.146	442	53524			50.00- 0.00	82.60
8.386	8.532	-0.146	199	4483			5.00- 9.00	6.92
8.386	8.532	-0.146	275	18852			10.00- 60.00	29.09
8.386	8.532	-0.146	365	2315			1.00- 0.00	3.57
8.386	8.532	-0.146	441	5459			0.01- 99.99	48.77
8.386	8.532	-0.146	443	11194			15.00- 24.00	20.91

Data File: 1DD03002.D

Date: 03-APR-2013 11:38

Client ID: DFTPP | Instrument: BSMSD.i

Sample Info: DFTPP-1525850 | Operator: SCC



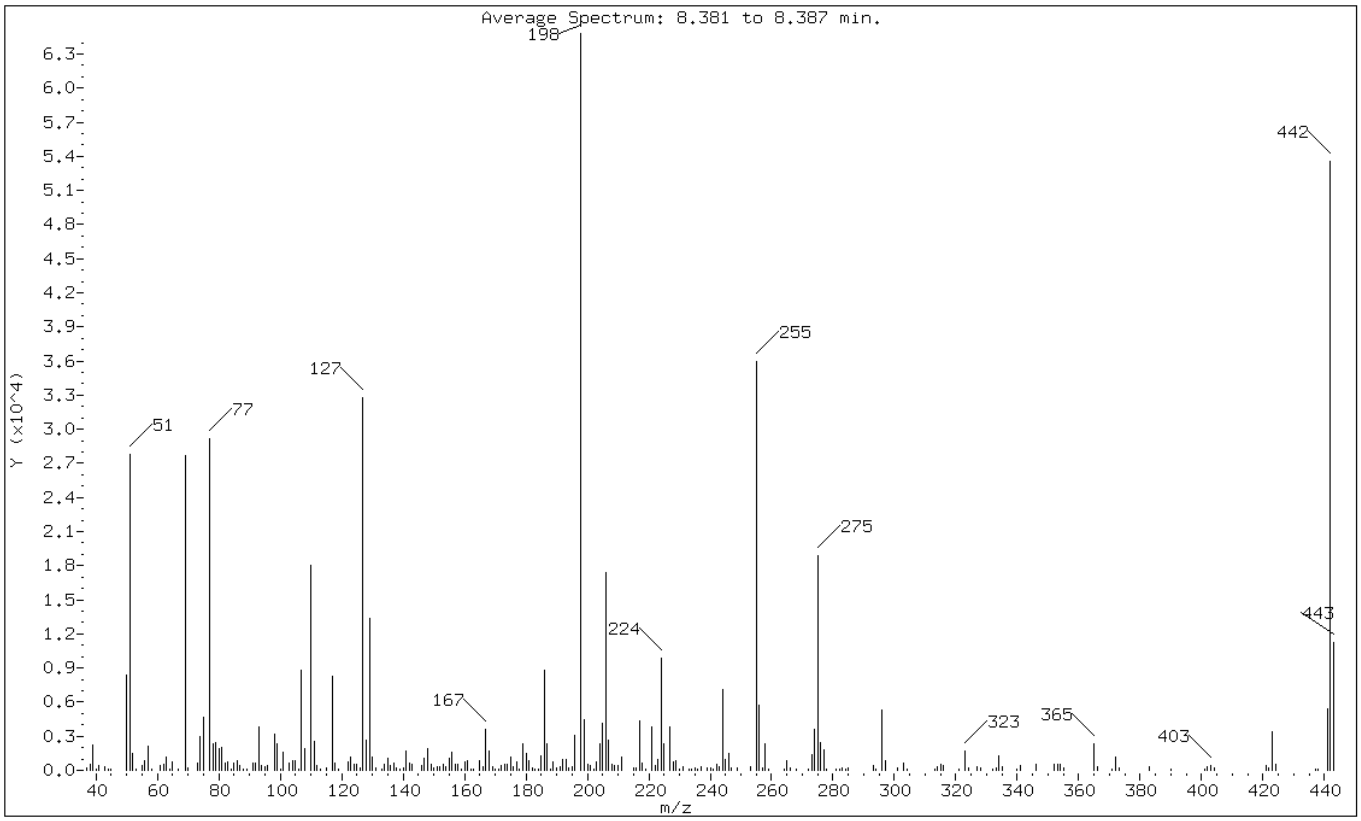
Data File: 1DD03002.D

Date: 03-APR-2013 11:38

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	42.84
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	42.74
70	Less than 2.00% of mass 69	0.34 (0.79)
127	10.00 - 80.00% of mass 198	50.56
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	82.60
199	5.00 - 9.00% of mass 198	6.92
275	10.00 - 60.00% of mass 198	29.09
365	Greater than 1.00% of mass 198	3.57
441	Present, but less than mass 443	8.42
443	15.00 - 24.00% of mass 442	17.27 (20.91)

Data File: 1DD03002.D

Date: 03-APR-2013 11:38

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D040313.b\1DD03002.D
Spectrum: Average Spectrum: 8.381 to 8.387 min.
Location of Maximum: 198.00
Number of points: 248

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	218	119.00	102	188.00	151	272.00	82
38.00	487	122.00	789	189.00	793	273.00	1366
39.00	2270	123.00	1174	190.00	236	274.00	3626
40.00	128	124.00	506	191.00	335	275.00	18848
41.00	394	125.00	563	192.00	965	276.00	2457
43.00	318	126.00	188	193.00	998	277.00	1796
44.00	83	127.00	32760	194.00	226	278.00	144
45.00	79	128.00	2687	195.00	274	281.00	89
50.00	8371	129.00	13326	196.00	3068	282.00	95
51.00	27760	130.00	1132	198.00	64800	283.00	225
52.00	1508	131.00	256	199.00	4483	284.00	98
53.00	111	133.00	99	200.00	491	285.00	215
55.00	382	134.00	513	201.00	405	293.00	407
56.00	858	135.00	1065	202.00	117	294.00	92
57.00	2077	136.00	463	203.00	728	296.00	5252
58.00	94	137.00	651	204.00	2349	297.00	801
61.00	400	138.00	165	205.00	4149	301.00	225
62.00	518	139.00	84	206.00	17368	303.00	657
63.00	1143	140.00	200	207.00	2700	304.00	133
64.00	89	141.00	1716	208.00	498	313.00	100
65.00	732	142.00	689	209.00	399	314.00	316
67.00	121	143.00	527	210.00	474	315.00	500
69.00	27696	146.00	456	211.00	1149	316.00	384
70.00	219	147.00	1085	215.00	244	321.00	87
73.00	603	148.00	1936	216.00	198	323.00	1746
74.00	2939	149.00	545	217.00	4358	324.00	250
75.00	4711	150.00	186	218.00	631	327.00	368
77.00	29168	151.00	281	219.00	114	328.00	181
78.00	2283	152.00	343	221.00	3765	332.00	158
79.00	2482	153.00	577	222.00	426	333.00	206
80.00	1885	154.00	345	223.00	960	334.00	1283
81.00	2051	155.00	1050	224.00	9854	335.00	277
82.00	678	156.00	1549	225.00	2338	340.00	100
83.00	764	157.00	484	227.00	3810	341.00	445
84.00	105	158.00	579	228.00	750	346.00	553
85.00	631	159.00	153	229.00	871	352.00	565
86.00	813	160.00	783	230.00	148	353.00	484
87.00	470	161.00	801	231.00	348	354.00	495
88.00	101	162.00	137	233.00	83	355.00	246
89.00	79	163.00	76	234.00	148	365.00	2315

91.00	607	165.00	816
92.00	679	166.00	296
93.00	3790	167.00	3606
94.00	380	168.00	1731
95.00	280	169.00	345
96.00	400	170.00	75
98.00	3136	171.00	90
99.00	2350	172.00	376
100.00	142	173.00	505
101.00	1562	174.00	538
103.00	609	175.00	1172
104.00	900	176.00	303
105.00	803	177.00	760
106.00	108	178.00	140
107.00	8809	179.00	2290
108.00	1876	180.00	1503
110.00	18024	181.00	798
111.00	2578	182.00	181
112.00	398	183.00	105
113.00	104	184.00	109
115.00	265	185.00	1230
117.00	8306	186.00	8840
118.00	653	187.00	2356

235.00	255	366.00	311
236.00	79	371.00	80
237.00	357	372.00	1149
239.00	190	373.00	190
240.00	199	383.00	304
241.00	150	390.00	79
242.00	509	401.00	87
243.00	288	402.00	355
244.00	7108	403.00	387
245.00	959	404.00	169
246.00	1476	421.00	399
247.00	195	422.00	209
249.00	228	423.00	3411
253.00	350	424.00	573
255.00	35976	437.00	95
256.00	5756	438.00	98
257.00	185	441.00	5459
258.00	2340	442.00	53520
259.00	140	443.00	11194
264.00	122		
265.00	862		
266.00	163		
268.00	100		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88766-1
SDG No.: 68088766-1
Client Sample ID:
Lab Sample ID: MB 660-135924/1-A
Matrix: Solid
Lab File ID: 1CD02026.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 03/29/2013 10:19
Sample wt/vol: 15.12(g)
Date Analyzed: 04/02/2013 20:01
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.: 136079
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	7.9	U	7.9	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	7.9	U	7.9	3.6
218-01-9	Chrysene	8.9	U	8.9	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.0
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	7.9	U	7.9	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	62		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1CD02026.D
Lab Smp Id: mb 660-135924/1-a
Inj Date : 02-APR-2013 20:01
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-135924/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 16:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 25 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.120	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

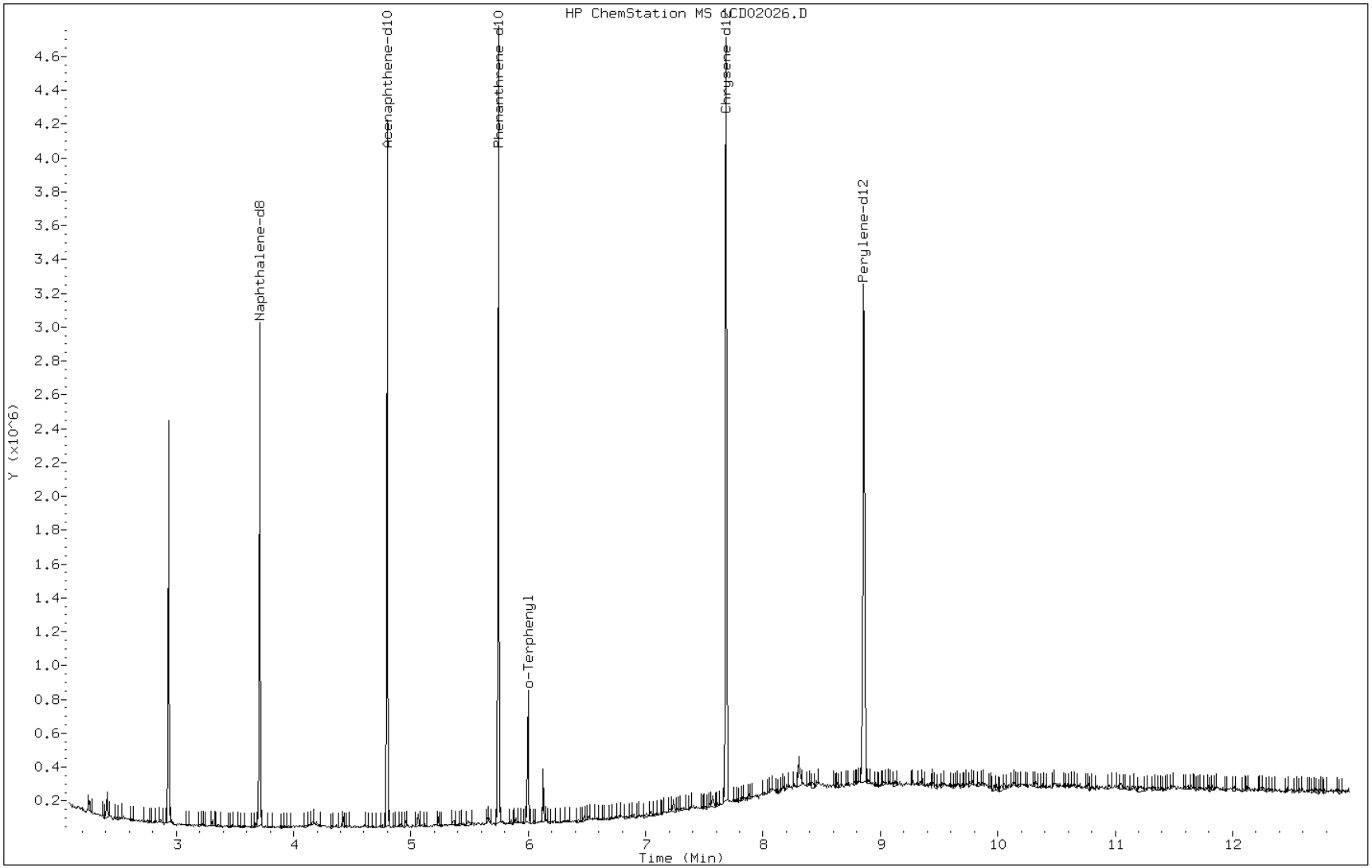
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	569471	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	504679	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	959879	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	85443	6.17889	408.6565
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	1168702	40.0000	
* 23 Perylene-d12	264	8.857	8.862	(1.000)	1102080	40.0000	

Data File: 1CD02026.D

Date: 02-APR-2013 20:01

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-135924/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-1

SDG No.: 68088766-1

Client Sample ID: | Lab Sample ID: MB 660-136026/1-A

Matrix: Solid | Lab File ID: 1DD03005.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/01/2013 13:16

Sample wt/vol: 15.12(g) | Date Analyzed: 04/03/2013 12:45

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.: 136118 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	7.9	U	7.9	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	7.9	U	7.9	3.6
218-01-9	Chrysene	8.9	U	8.9	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.0
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	7.9	U	7.9	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	58		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040313.b\1DD03005.D
Lab Smp Id: MB 660-136026/1-A
Inj Date : 03-APR-2013 12:45
Operator : SCC Inst ID: BSMSD.i
Smp Info : MB 660-136026/1-A
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D040313.b\dFASTPAHi.m
Meth Date : 03-Apr-2013 12:14 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.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	15.120	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.085	6.083	(1.000)	1813955	40.0000	
* 6 Acenaphthene-d10	164	7.765	7.764	(1.000)	1106129	40.0000	
* 9 Phenanthrene-d10	188	9.028	9.027	(1.000)	1728057	40.0000	
$ 13 o-Terphenyl	230	9.334	9.338	(1.034)	156017	5.83837	390
* 17 Chrysene-d12	240	11.343	11.348	(1.000)	1598481	40.0000	
* 22 Perylene-d12	264	13.188	13.187	(1.000)	1561531	40.0000	
10 Phenanthrene	178	9.046	9.045	(1.002)	1886	0.03845	2.5(Q)

QC Flag Legend

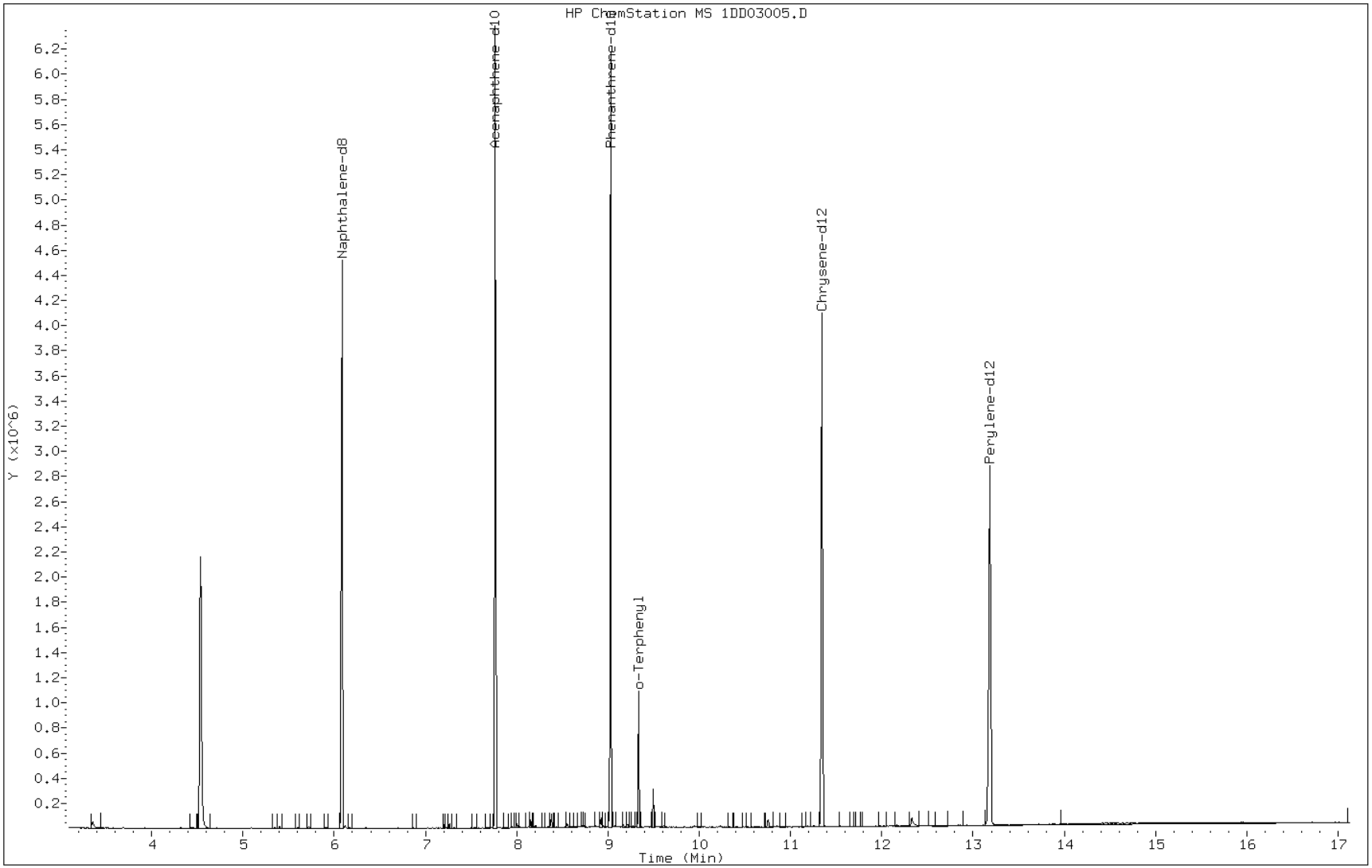
Q - Qualifier signal failed the ratio test.

Data File: 1DD03005.D

Date: 03-APR-2013 12:45

Client ID: Instrument: BSMSD.i

Sample Info: MB 660-136026/1-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-1

SDG No.: 68088766-1

Client Sample ID: | Lab Sample ID: MB 660-136063/1-A

Matrix: Solid | Lab File ID: 1CD03015.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/02/2013 11:33

Sample wt/vol: 14.99(g) | Date Analyzed: 04/03/2013 15:34

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.: 136081 | 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	80		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03015.D
Lab Smp Id: mb 660-136063/1-a
Inj Date : 03-APR-2013 15:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-136063/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m
Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 15 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

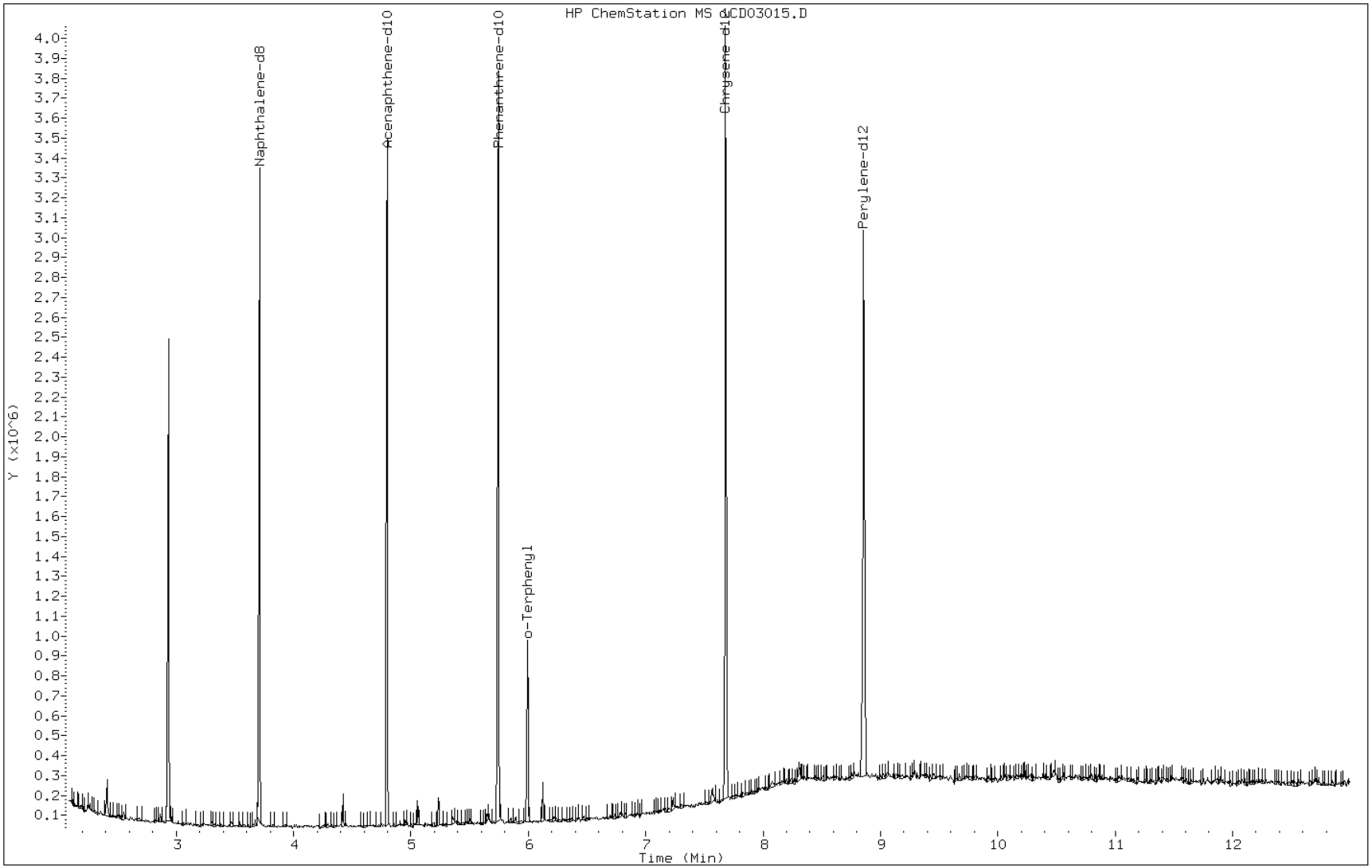
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.710	3.704	(1.000)	646271	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.792	(1.000)	483289	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.739	(1.000)	879169	40.0000	
$ 14 o-Terphenyl	230	5.992	5.992	(1.043)	104839	8.03116	535.7676
* 18 Chrysene-d12	240	7.680	7.680	(1.000)	990236	40.0000	
* 23 Perylene-d12	264	8.856	8.851	(1.000)	958431	40.0000	

Data File: 1CD03015.D

Date: 03-APR-2013 15:34

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-136063/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88766-1
SDG No.: 68088766-1
Client Sample ID:
Lab Sample ID: LCS 660-135924/2-A
Matrix: Solid
Lab File ID: 1CD02027.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 03/29/2013 10:19
Sample wt/vol: 15.01(g)
Date Analyzed: 04/02/2013 20:19
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.: 136079
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	412		100	20
208-96-8	Acenaphthylene	436		40	5.0
120-12-7	Anthracene	447		8.4	4.2
56-55-3	Benzo[a]anthracene	479		8.0	3.9
50-32-8	Benzo[a]pyrene	454		10	5.2
205-99-2	Benzo[b]fluoranthene	456		12	6.1
191-24-2	Benzo[g,h,i]perylene	425		20	4.4
207-08-9	Benzo[k]fluoranthene	469		8.0	3.6
218-01-9	Chrysene	447		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	476		20	4.1
206-44-0	Fluoranthene	483		20	4.0
86-73-7	Fluorene	450		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	403		20	7.1
90-12-0	1-Methylnaphthalene	509		40	4.4
91-57-6	2-Methylnaphthalene	483		40	7.1
91-20-3	Naphthalene	461		40	4.4
85-01-8	Phenanthrene	439		8.0	3.9
129-00-0	Pyrene	509		20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\1CD02027.D
Lab Smp Id: lcs 660-135924/2-a
Inj Date : 02-APR-2013 20:19
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-135924/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 16:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 26 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.010	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	536976	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	477938	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	982106	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	93721	6.57186	437.8320
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	1206373	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	1158196	40.0000	
2 Naphthalene	128	3.722	3.721	(1.003)	95371	6.91489	460.6857
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	67997	7.24257	482.5165
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	64602	7.64717	509.4716
5 Acenaphthylene	152	4.710	4.710	(0.982)	129477	6.54563	436.0844
7 Acenaphthene	154	4.816	4.821	(1.004)	75709	6.17955	411.6958
9 Fluorene	166	5.139	5.139	(1.071)	110432	6.76149	450.4656
11 Phenanthrene	178	5.763	5.763	(1.003)	188670	6.59605	439.4435
12 Anthracene	178	5.792	5.798	(1.008)	194399	6.70444	446.6651

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.904	5.904	(1.028)	184492	7.42668	494.7820
15 Fluoranthene	202	6.598	6.598	(1.148)	228870	7.24525	482.6950
16 Pyrene	202	6.763	6.762	(0.880)	255268	7.63876	508.9114
17 Benzo(a)anthracene	228	7.674	7.680	(0.998)	246415	7.18521	478.6948
19 Chrysene	228	7.704	7.704	(1.002)	230392	6.70205	446.5055
20 Benzo(b)fluoranthene	252	8.515	8.521	(0.961)	224162	6.84607	456.1003
21 Benzo(k)fluoranthene	252	8.539	8.545	(0.963)	223127	7.04570	469.4000
22 Benzo(a)pyrene	252	8.804	8.809	(0.993)	210159	6.81738	454.1891
24 Indeno(1,2,3-cd)pyrene	276	10.004	10.015	(1.129)	176973	6.04421	402.6789(M)
25 Dibenzo(a,h)anthracene	278	10.021	10.027	(1.131)	193346	7.14836	476.2401
26 Benzo(g,h,i)perylene	276	10.351	10.356	(1.168)	190765	6.38363	425.2916

QC Flag Legend

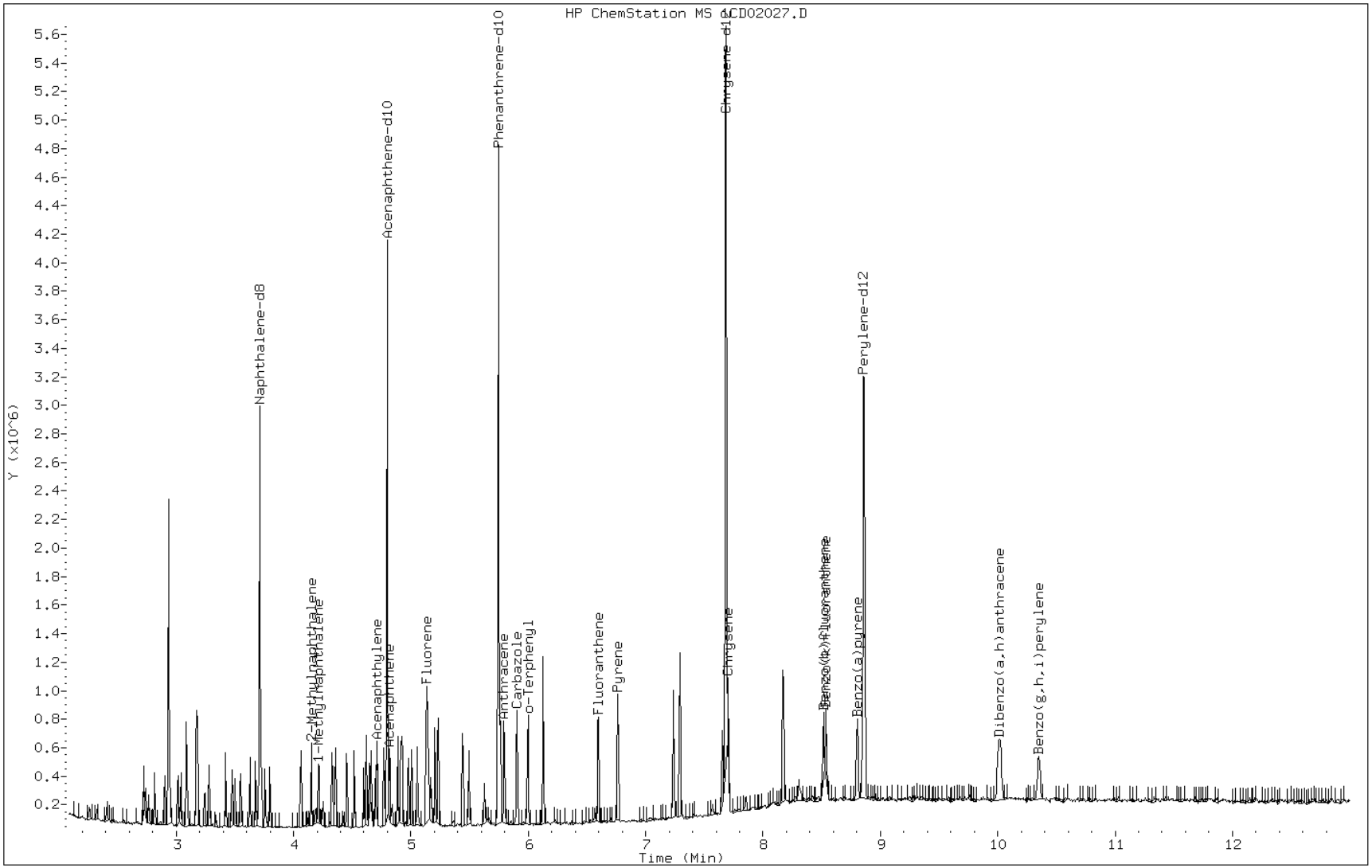
M - Compound response manually integrated.

Data File: 1CD02027.D

Date: 02-APR-2013 20:19

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-135924/2-a Operator: SCC



Manual Integration Report

Data File: 1CD02027.D
Inj. Date and Time: 02-APR-2013 20:19
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

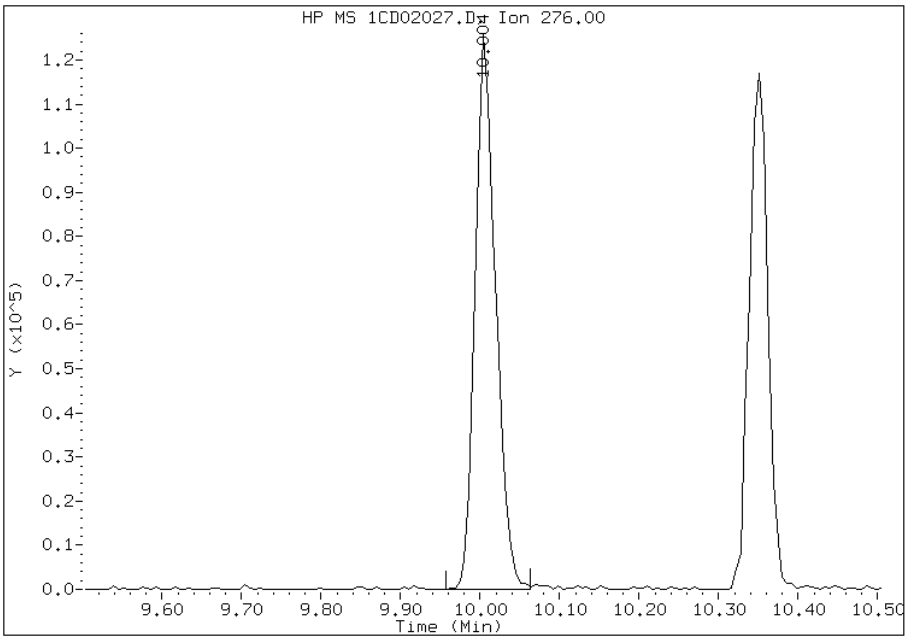
Processing Integration Results

RT: 10.00

Response: 222676

Amount: 8

Conc: 507



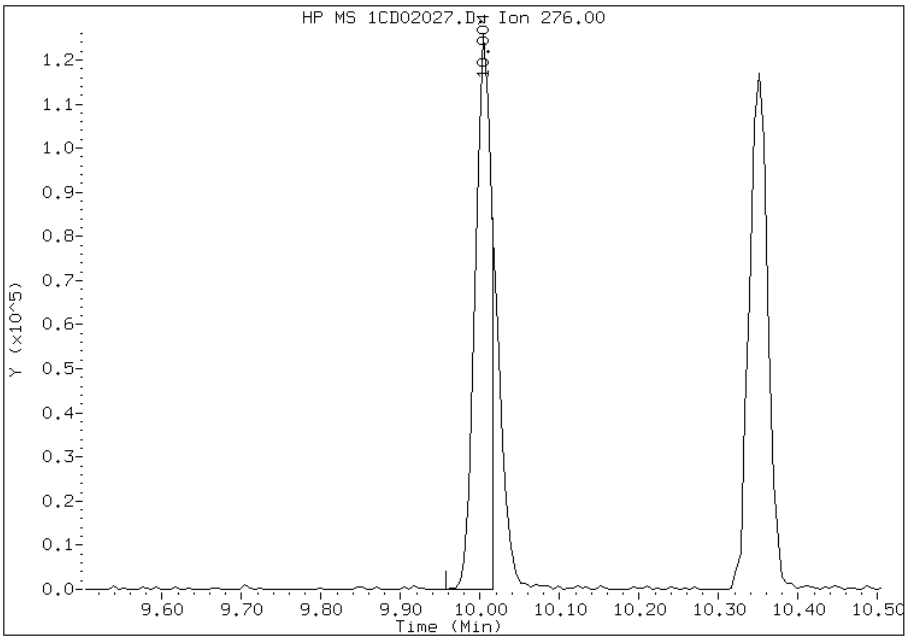
Manual Integration Results

RT: 10.00

Response: 176973

Amount: 6

Conc: 403



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 12:30
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88766-1
SDG No.: 68088766-1
Client Sample ID:
Lab Sample ID: LCS 660-136026/2-A
Matrix: Solid
Lab File ID: 1DD03006.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 04/01/2013 13:16
Sample wt/vol: 15.03(g)
Date Analyzed: 04/03/2013 13:07
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.: 136118
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	403		100	20
208-96-8	Acenaphthylene	409		40	5.0
120-12-7	Anthracene	416		8.4	4.2
56-55-3	Benzo[a]anthracene	476		8.0	3.9
50-32-8	Benzo[a]pyrene	412		10	5.2
205-99-2	Benzo[b]fluoranthene	455		12	6.1
191-24-2	Benzo[g,h,i]perylene	416		20	4.4
207-08-9	Benzo[k]fluoranthene	444		8.0	3.6
218-01-9	Chrysene	416		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	438		20	4.1
206-44-0	Fluoranthene	427		20	4.0
86-73-7	Fluorene	418		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	414		20	7.1
90-12-0	1-Methylnaphthalene	434		40	4.4
91-57-6	2-Methylnaphthalene	428		40	7.1
91-20-3	Naphthalene	418		40	4.4
85-01-8	Phenanthrene	414		8.0	3.9
129-00-0	Pyrene	444		20	3.7

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040313.b\1DD03006.D
Lab Smp Id: LCS 660-136026/2-A
Inj Date : 03-APR-2013 13:07
Operator : SCC Inst ID: BSMSD.i
Smp Info : LCS 660-136026/2-A
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D040313.b\dFASTPAHi.m
Meth Date : 03-Apr-2013 12:14 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.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	15.030	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.086	6.083	(1.000)	1813073	40.0000	
* 6 Acenaphthene-d10	164	7.766	7.764	(1.000)	1107155	40.0000	
* 9 Phenanthrene-d10	188	9.023	9.027	(1.000)	1710956	40.0000	
$ 13 o-Terphenyl	230	9.335	9.338	(1.035)	168466	6.36724	420
* 17 Chrysene-d12	240	11.344	11.348	(1.000)	1588234	40.0000	
* 22 Perylene-d12	264	13.183	13.187	(1.000)	1505585	40.0000	
2 Naphthalene	128	6.103	6.107	(1.003)	304857	6.28559	420
3 2-Methylnaphthalene	142	6.808	6.812	(1.119)	198648	6.42967	430
4 1-Methylnaphthalene	142	6.902	6.906	(1.134)	188515	6.51590	430
5 Acenaphthylene	152	7.637	7.640	(0.983)	300143	6.14899	410
7 Acenaphthene	154	7.789	7.793	(1.003)	180384	6.06092	400
8 Fluorene	166	8.236	8.234	(1.061)	218358	6.27954	420
10 Phenanthrene	178	9.041	9.045	(1.002)	302161	6.22135	410
11 Anthracene	178	9.082	9.086	(1.007)	303957	6.25506	420

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.223	9.227	(1.022)	270509	6.22709	410
14 Fluoranthene	202	10.028	10.032	(1.111)	325482	6.42170	430
15 Pyrene	202	10.216	10.220	(0.901)	328481	6.66756	440
16 Benzo(a)anthracene	228	11.326	11.330	(0.998)	311302	7.15927	480
18 Chrysene	228	11.368	11.371	(1.002)	280930	6.25805	420
19 Benzo(b)fluoranthene	252	12.637	12.646	(0.959)	265007	6.83828	450
20 Benzo(k)fluoranthene	252	12.672	12.682	(0.961)	270857	6.67527	440
21 Benzo(a)pyrene	252	13.089	13.099	(0.993)	237261	6.18677	410
23 Indeno(1,2,3-cd)pyrene	276	14.775	14.791	(1.121)	254483	6.21809	410(M)
24 Dibenzo(a,h)anthracene	278	14.805	14.820	(1.123)	249022	6.58853	440
25 Benzo(g,h,i)perylene	276	15.216	15.232	(1.154)	243685	6.24502	420

QC Flag Legend

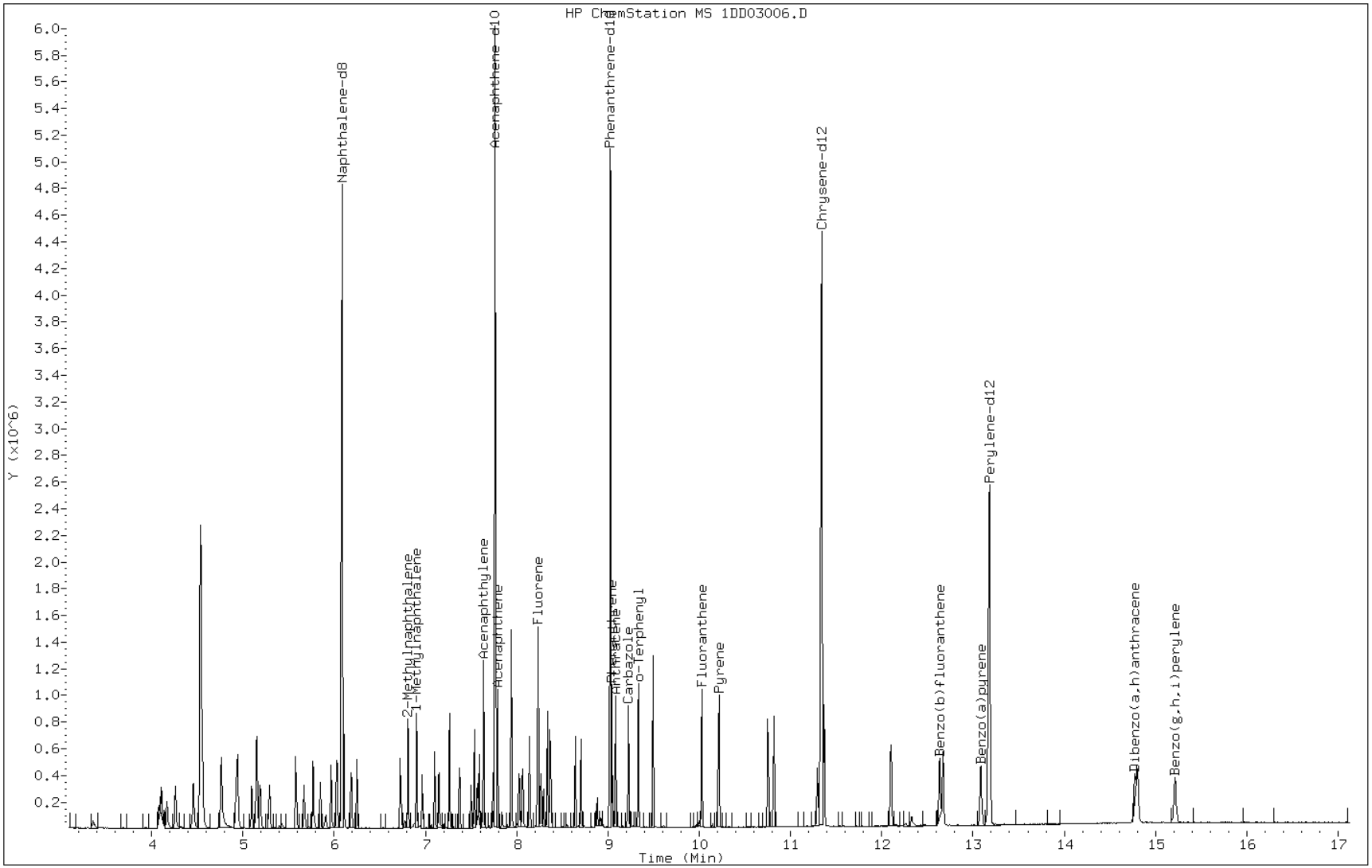
M - Compound response manually integrated.

Data File: 1DD03006.D

Date: 03-APR-2013 13:07

Client ID: Instrument: BSMSD.i

Sample Info: LCS 660-136026/2-A Operator: SCC



Manual Integration Report

Data File: 1DD03006.D
Inj. Date and Time: 03-APR-2013 13:07
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/04/2013

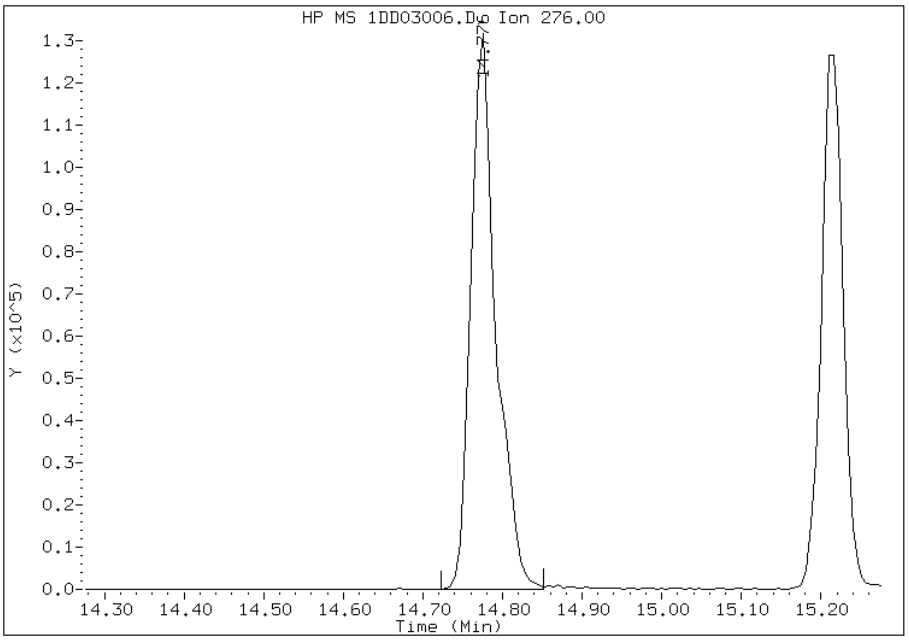
Processing Integration Results

RT: 14.78

Response: 287251

Amount: 7

Conc: 467



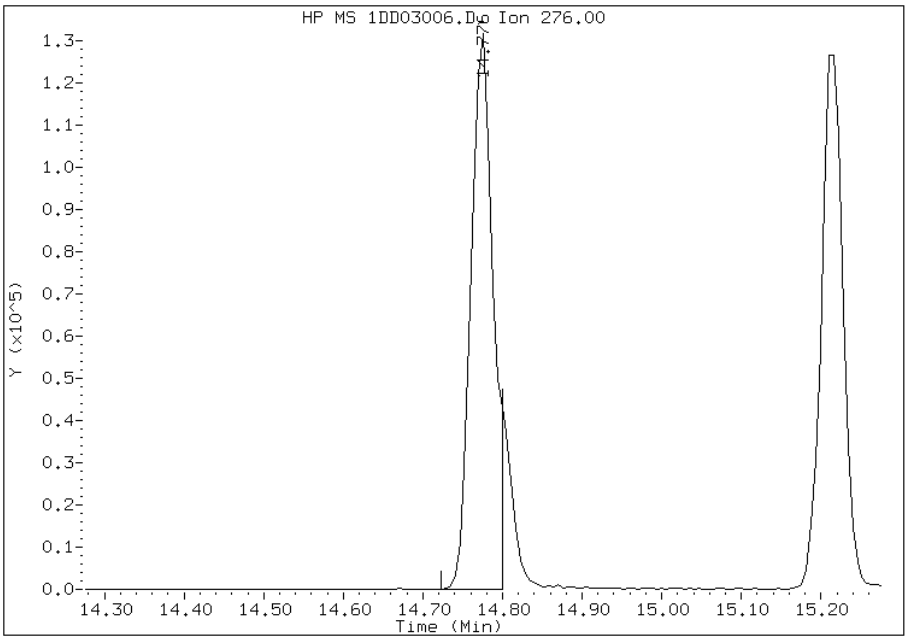
Manual Integration Results

RT: 14.78

Response: 254483

Amount: 6

Conc: 414



Manually Integrated By: cantins
Modification Date: 04-Apr-2013 11:47
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-1

SDG No.: 68088766-1

Client Sample ID: | Lab Sample ID: LCS 660-136063/2-A

Matrix: Solid | Lab File ID: 1CD03016.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/02/2013 11:33

Sample wt/vol: 14.97(g) | Date Analyzed: 04/03/2013 15:52

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.: 136081 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	458		100	20
208-96-8	Acenaphthylene	488		40	5.0
120-12-7	Anthracene	469		8.4	4.2
56-55-3	Benzo[a]anthracene	484		8.0	3.9
50-32-8	Benzo[a]pyrene	444		10	5.2
205-99-2	Benzo[b]fluoranthene	516		12	6.1
191-24-2	Benzo[g,h,i]perylene	418		20	4.4
207-08-9	Benzo[k]fluoranthene	468		8.0	3.6
218-01-9	Chrysene	462		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	471		20	4.1
206-44-0	Fluoranthene	487		20	4.0
86-73-7	Fluorene	444		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	399		20	7.1
90-12-0	1-Methylnaphthalene	522		40	4.4
91-57-6	2-Methylnaphthalene	458		40	7.1
91-20-3	Naphthalene	484		40	4.4
85-01-8	Phenanthrene	499		8.0	3.9
129-00-0	Pyrene	516		20	3.7

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\1C040313.b\1CD03016.D
Lab Smp Id: lcs 660-136063/2-a
Inj Date : 03-APR-2013 15:52
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-136063/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m
Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 16 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	14.970	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	3.710	3.704	(1.000)	631468	40.0000	
* 6 Acenaphthene-d10	164	4.792	4.792	(1.000)	487717	40.0000	
* 10 Phenanthrene-d10	188	5.739	5.739	(1.000)	877192	40.0000	
$ 14 o-Terphenyl	230	5.992	5.992	(1.044)	92529	7.18786	480.1508
* 18 Chrysene-d12	240	7.680	7.680	(1.000)	995572	40.0000	
* 23 Perylene-d12	264	8.851	8.851	(1.000)	964341	40.0000	
2 Naphthalene	128	3.722	3.722	(1.003)	117544	7.24725	484.1181
3 2-Methylnaphthalene	142	4.145	4.145	(1.117)	75697	6.85623	457.9979
4 1-Methylnaphthalene	142	4.210	4.210	(1.135)	77643	7.81557	522.0820
5 Acenaphthylene	152	4.710	4.704	(0.983)	147518	7.30815	488.1862
7 Acenaphthene	154	4.816	4.816	(1.005)	85784	6.86151	458.3506
9 Fluorene	166	5.133	5.133	(1.071)	110785	6.64710	444.0278
11 Phenanthrene	178	5.757	5.757	(1.003)	190897	7.47212	499.1395
12 Anthracene	178	5.792	5.792	(1.009)	181998	7.02747	469.4369

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.898	5.898	(1.028)	177248	7.98844	533.6301
15 Fluoranthene	202	6.592	6.592	(1.149)	205854	7.29605	487.3779
16 Pyrene	202	6.757	6.757	(0.880)	212934	7.72112	515.7731
17 Benzo(a)anthracene	228	7.668	7.668	(0.998)	204915	7.23923	483.5827
19 Chrysene	228	7.698	7.698	(1.002)	196071	6.91134	461.6795
20 Benzo(b)fluoranthene	252	8.509	8.509	(0.961)	210472	7.72013	515.7070
21 Benzo(k)fluoranthene	252	8.527	8.533	(0.963)	184760	7.00698	468.0684
22 Benzo(a)pyrene	252	8.798	8.798	(0.994)	170578	6.64575	443.9378
24 Indeno(1,2,3-cd)pyrene	276	9.992	9.992	(1.129)	145625	5.97338	399.0232(M)
25 Dibenzo(a,h)anthracene	278	10.009	10.009	(1.131)	158866	7.05430	471.2290
26 Benzo(g,h,i)perylene	276	10.339	10.339	(1.168)	155744	6.25938	418.1284

QC Flag Legend

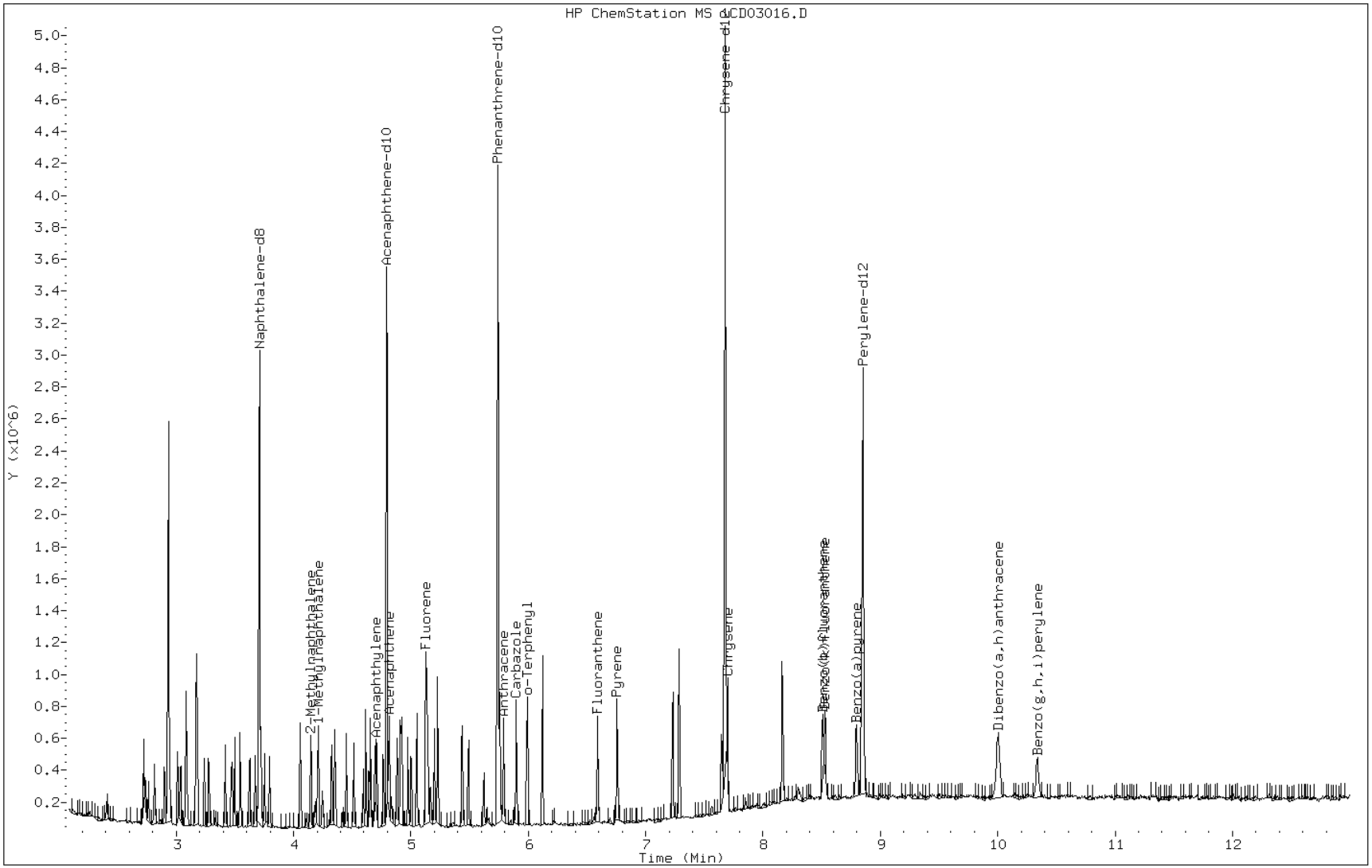
M - Compound response manually integrated.

Data File: 1CD03016.D

Date: 03-APR-2013 15:52

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-136063/2-a Operator: SCC



Manual Integration Report

Data File: 1CD03016.D
Inj. Date and Time: 03-APR-2013 15:52
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/04/2013

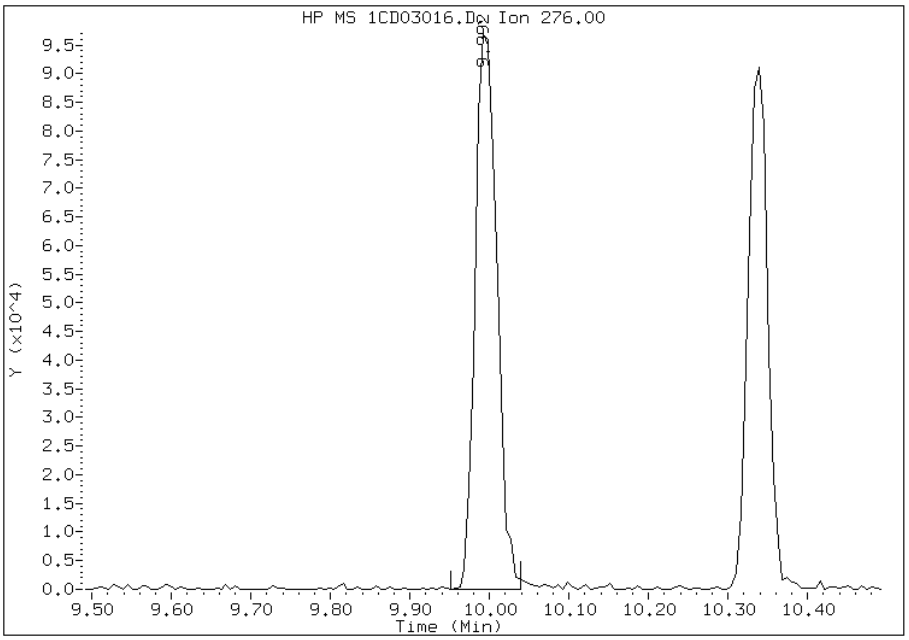
Processing Integration Results

RT: 9.99

Response: 182593

Amount: 7

Conc: 500



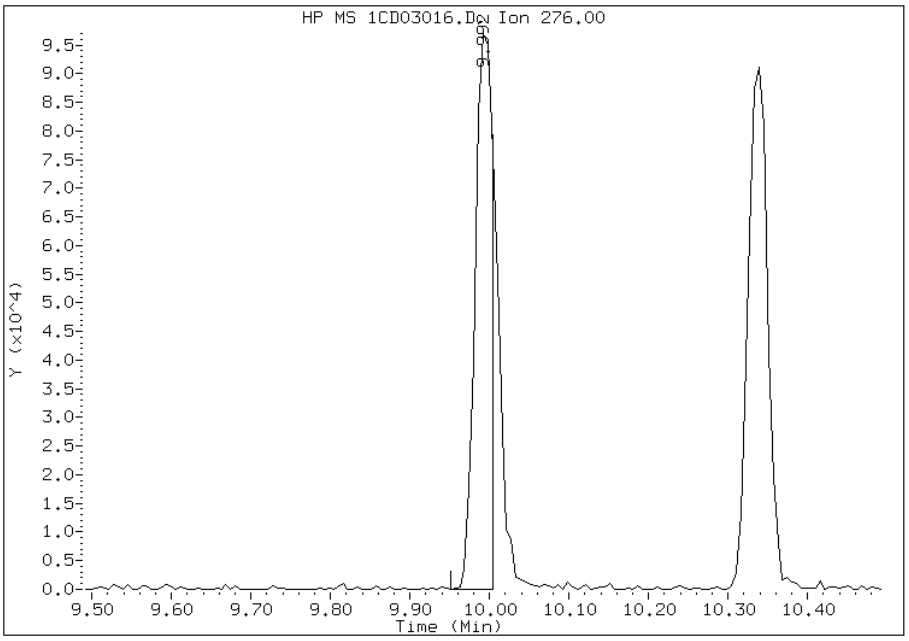
Manual Integration Results

RT: 9.99

Response: 145625

Amount: 6

Conc: 399



Manually Integrated By: cantins
Modification Date: 04-Apr-2013 15:32
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-1

SDG No.: 68088766-1

Client Sample ID: | Lab Sample ID: 680-88632-A-21-B MS

Matrix: Solid | Lab File ID: 1CD02029.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 03/29/2013 10:19

Sample wt/vol: 15.01(g) | Date Analyzed: 04/02/2013 20:56

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

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

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

Analysis Batch No.: 136079 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	449		120	25
208-96-8	Acenaphthylene	445		49	6.1
120-12-7	Anthracene	430		10	5.1
56-55-3	Benzo[a]anthracene	578		9.8	4.8
50-32-8	Benzo[a]pyrene	499		13	6.4
205-99-2	Benzo[b]fluoranthene	613		15	7.5
191-24-2	Benzo[g,h,i]perylene	463		25	5.4
207-08-9	Benzo[k]fluoranthene	560		9.8	4.4
218-01-9	Chrysene	553		11	5.5
53-70-3	Dibenz(a,h)anthracene	479		25	5.0
206-44-0	Fluoranthene	598		25	4.9
86-73-7	Fluorene	502		25	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	413		25	8.7
90-12-0	1-Methylnaphthalene	610		49	5.4
91-57-6	2-Methylnaphthalene	567		49	8.7
91-20-3	Naphthalene	572		49	5.4
85-01-8	Phenanthrene	565		9.8	4.8
129-00-0	Pyrene	597		25	4.5

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\1C040213B.b\1CD02029.D
Lab Smp Id: 680-88632-a-21-b ms
Inj Date : 02-APR-2013 20:56
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-21-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 16:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 28 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	15.010	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	583262	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	519154	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	1060524	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	94046	6.15833	410.2818
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	1203389	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	1130015	40.0000	
2 Naphthalene	128	3.721	3.721	(1.003)	104847	6.99868	466.2680
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	70822	6.94484	462.6811
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	68479	7.46283	497.1903
5 Acenaphthylene	152	4.710	4.710	(0.982)	117067	5.44839	362.9842
7 Acenaphthene	154	4.821	4.821	(1.005)	73074	5.49096	365.8198
9 Fluorene	166	5.139	5.139	(1.071)	109114	6.15040	409.7533
11 Phenanthrene	178	5.762	5.763	(1.003)	213472	6.91130	460.4463
12 Anthracene	178	5.798	5.798	(1.009)	164837	5.26455	350.7362

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.904	5.904	(1.028)	155965	5.81409	387.3480
15 Fluoranthene	202	6.598	6.598	(1.148)	249886	7.32562	488.0494
16 Pyrene	202	6.762	6.762	(0.880)	243521	7.30531	486.6960
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	242060	7.07779	471.5383
19 Chrysene	228	7.704	7.704	(1.002)	232055	6.76716	450.8436
20 Benzo(b)fluoranthene	252	8.515	8.521	(0.961)	239670	7.50223	499.8157
21 Benzo(k)fluoranthene	252	8.539	8.545	(0.963)	211918	6.85863	456.9374
22 Benzo(a)pyrene	252	8.803	8.809	(0.993)	183801	6.11104	407.1313
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.015	(1.129)	144499	5.05819	336.9881(M)
25 Dibenzo(a,h)anthracene	278	10.021	10.027	(1.131)	154724	5.86310	390.6126
26 Benzo(g,h,i)perylene	276	10.350	10.356	(1.168)	165119	5.66322	377.2967

QC Flag Legend

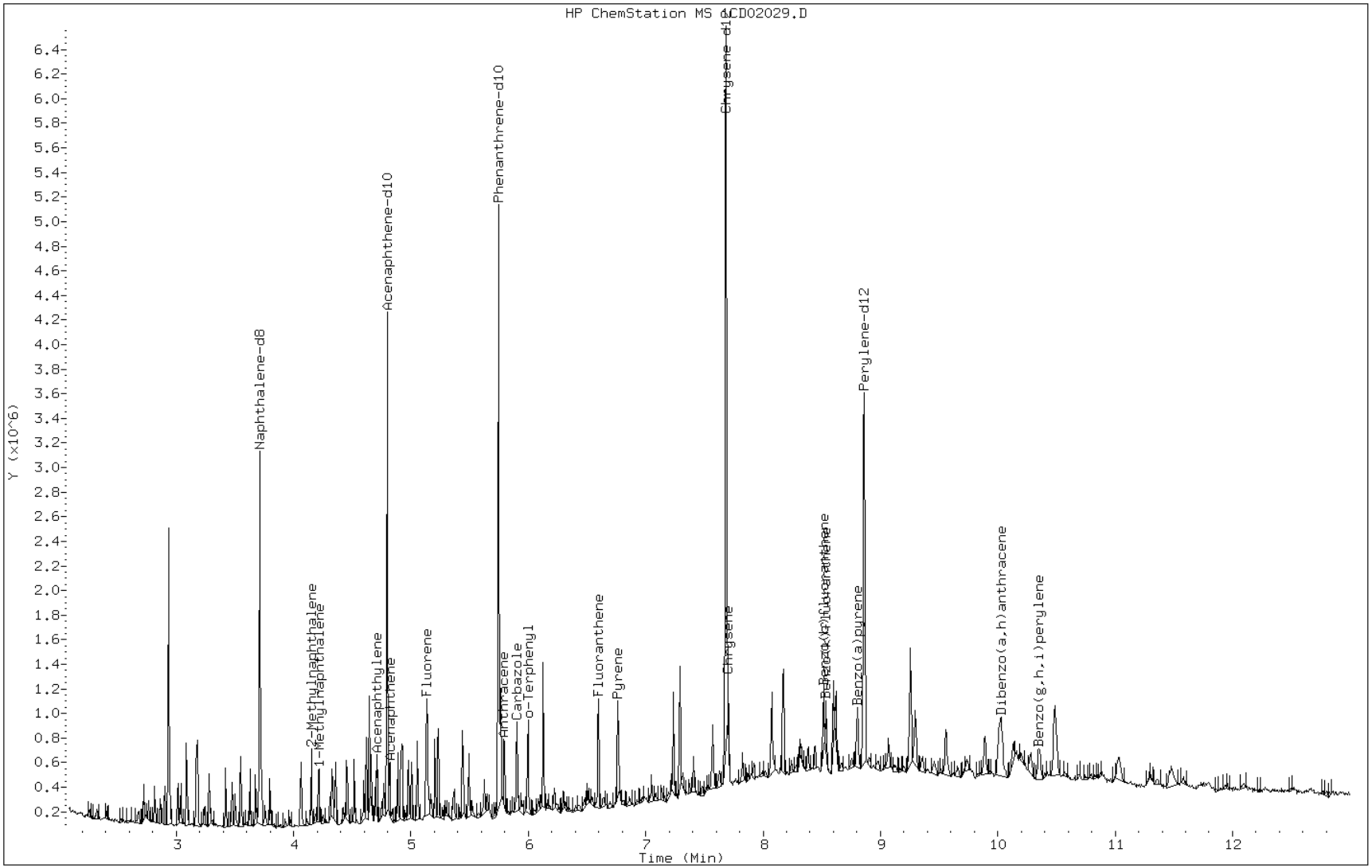
M - Compound response manually integrated.

Data File: 1CD02029.D

Date: 02-APR-2013 20:56

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88632-a-21-b ms Operator: SCC



Manual Integration Report

Data File: 1CD02029.D
Inj. Date and Time: 02-APR-2013 20:56
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

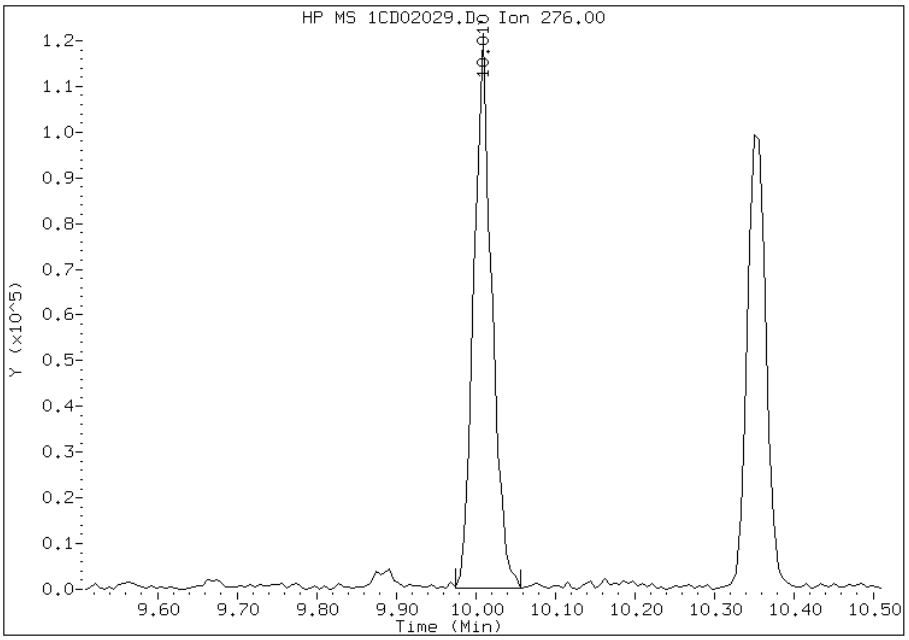
Processing Integration Results

RT: 10.01

Response: 188533

Amount: 7

Conc: 440



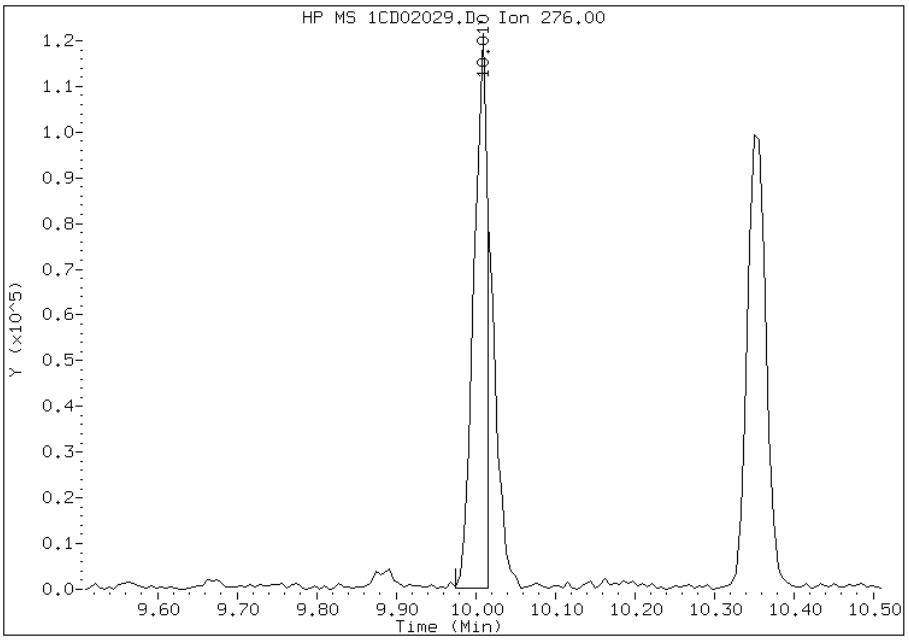
Manual Integration Results

RT: 10.01

Response: 144499

Amount: 5

Conc: 337



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 12:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88766-1
SDG No.: 68088766-1
Client Sample ID:
Lab Sample ID: 680-88766-A-21-E MS
Matrix: Solid
Lab File ID: 1CD03018.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 04/02/2013 11:33
Sample wt/vol: 15.32(g)
Date Analyzed: 04/03/2013 16:29
Con. Extract Vol.: 1(mL)
Dilution Factor: 4
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 26.1
GPC Cleanup:(Y/N) N
Analysis Batch No.: 136081
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	656		530	110
208-96-8	Acenaphthylene	626		210	27
120-12-7	Anthracene	666		45	22
56-55-3	Benzo[a]anthracene	833		42	21
50-32-8	Benzo[a]pyrene	650		55	28
205-99-2	Benzo[b]fluoranthene	738		65	32
191-24-2	Benzo[g,h,i]perylene	623		110	23
207-08-9	Benzo[k]fluoranthene	667		42	19
218-01-9	Chrysene	780		48	24
53-70-3	Dibenz(a,h)anthracene	622		110	22
206-44-0	Fluoranthene	697		110	21
86-73-7	Fluorene	639		110	22
193-39-5	Indeno[1,2,3-cd]pyrene	532		110	38
90-12-0	1-Methylnaphthalene	653		210	23
91-57-6	2-Methylnaphthalene	653		210	38
91-20-3	Naphthalene	681		210	23
85-01-8	Phenanthrene	690		42	21
129-00-0	Pyrene	750		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	92		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03018.D
Lab Smp Id: 680-88766-a-21-e ms
Inj Date : 03-APR-2013 16:29
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88766-a-21-e ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m
Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 18 QC Sample: MS
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.320	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.710	3.704	(1.000)	604618	40.0000	
* 6 Acenaphthene-d10	164	4.792	4.792	(1.000)	447317	40.0000	
* 10 Phenanthrene-d10	188	5.739	5.739	(1.000)	819020	40.0000	
$ 14 o-Terphenyl	230	5.992	5.992	(1.044)	20991	2.29558	599.3677
* 18 Chrysene-d12	240	7.680	7.680	(1.000)	882360	40.0000	
* 23 Perylene-d12	264	8.851	8.851	(1.000)	885344	40.0000	
2 Naphthalene	128	3.721	3.722	(1.003)	29924	1.92692	503.1110
3 2-Methylnaphthalene	142	4.145	4.145	(1.117)	19529	1.84738	482.3454
4 1-Methylnaphthalene	142	4.210	4.210	(1.135)	17586	1.84882	482.7217
5 Acenaphthylene	152	4.704	4.704	(0.982)	32783	1.77078	462.3434
7 Acenaphthene	154	4.815	4.816	(1.005)	21291	1.85679	484.8005
9 Fluorene	166	5.133	5.133	(1.071)	27627	1.80733	471.8875
11 Phenanthrene	178	5.757	5.757	(1.003)	46547	1.95136	509.4924
12 Anthracene	178	5.792	5.792	(1.009)	45559	1.88411	491.9353

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.898	5.898	(1.028)	41473	2.00192	522.6941
15 Fluoranthene	202	6.592	6.592	(1.149)	51944	1.97180	514.8315
16 Pyrene	202	6.757	6.757	(0.880)	51906	2.12364	554.4739
17 Benzo(a)anthracene	228	7.668	7.668	(0.998)	56786	2.35675	615.3405
19 Chrysene	228	7.698	7.698	(1.002)	55519	2.20809	576.5258
20 Benzo(b)fluoranthene	252	8.509	8.509	(0.961)	52279	2.08870	545.3529
21 Benzo(k)fluoranthene	252	8.527	8.533	(0.963)	45683	1.88711	492.7170
22 Benzo(a)pyrene	252	8.792	8.798	(0.993)	43357	1.83992	480.3966
24 Indeno(1,2,3-cd)pyrene	276	9.992	9.992	(1.129)	33696	1.50550	393.0811(M)
25 Dibenzo(a,h)anthracene	278	10.009	10.009	(1.131)	36413	1.76116	459.8320(M)
26 Benzo(g,h,i)perylene	276	10.339	10.339	(1.168)	40267	1.76274	460.2452(M)

QC Flag Legend

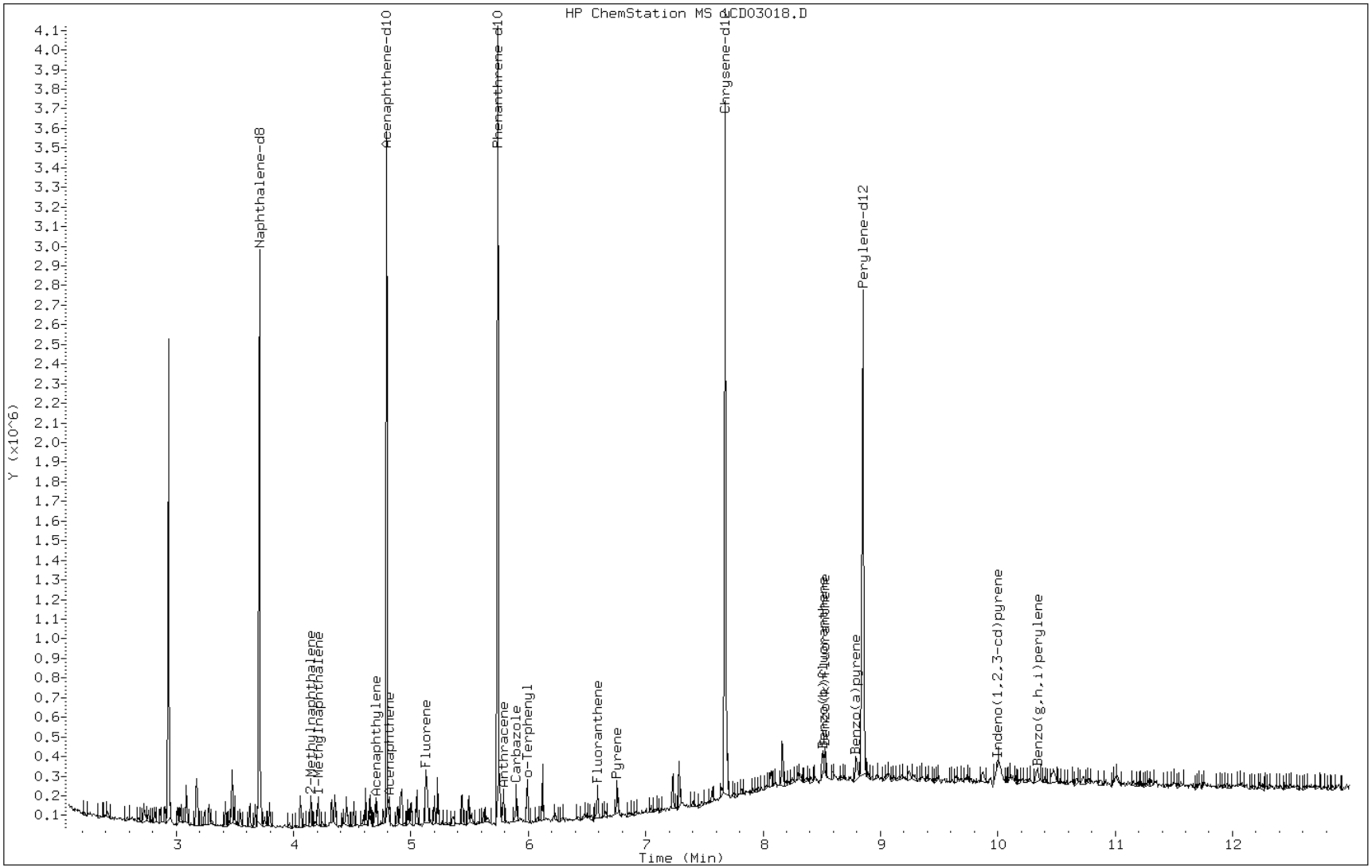
M - Compound response manually integrated.

Data File: 1CD03018.D

Date: 03-APR-2013 16:29

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88766-a-21-e ms Operator: SCC



Manual Integration Report

Data File: 1CD03018.D
Inj. Date and Time: 03-APR-2013 16:29
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/04/2013

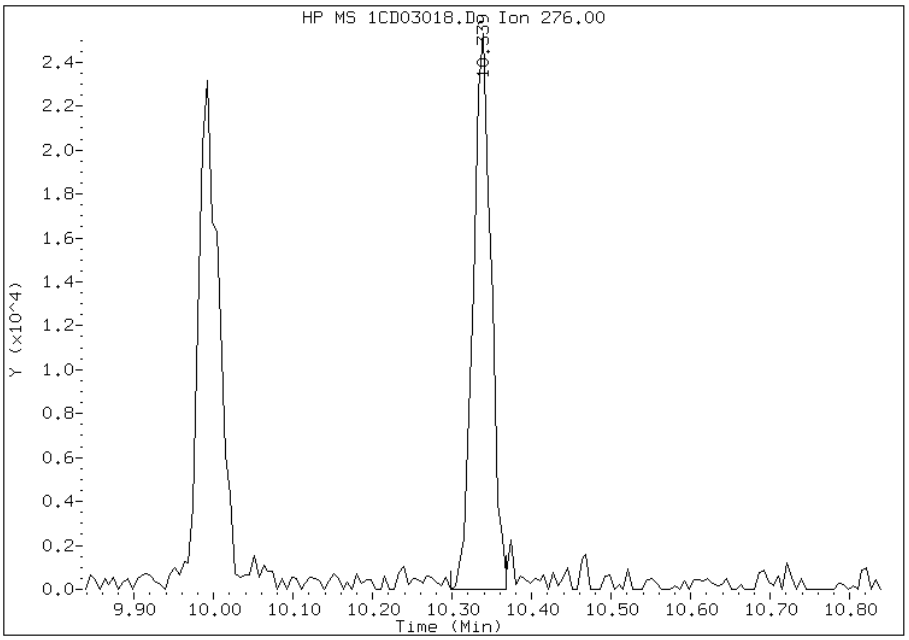
Processing Integration Results

RT: 10.34

Response: 39429

Amount: 2

Conc: 451



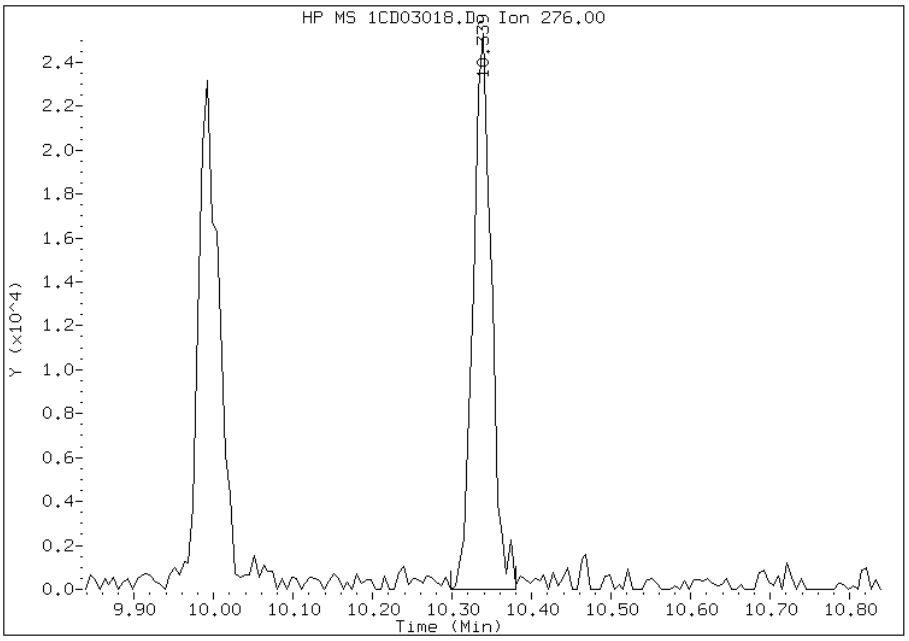
Manual Integration Results

RT: 10.34

Response: 40267

Amount: 2

Conc: 460



Manually Integrated By: cantins
Modification Date: 04-Apr-2013 15:34
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD03018.D
Inj. Date and Time: 03-APR-2013 16:29
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/04/2013

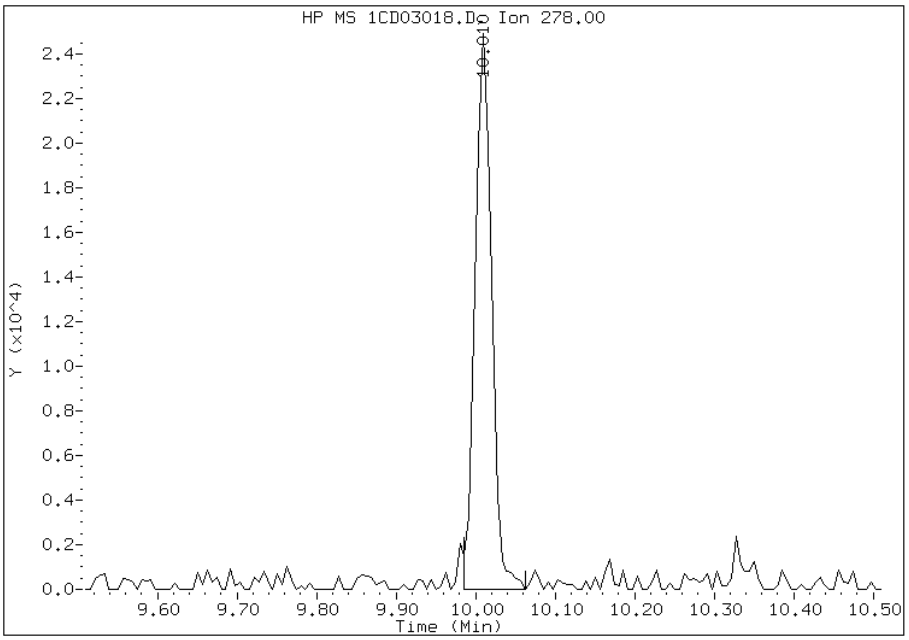
Processing Integration Results

RT: 10.01

Response: 35621

Amount: 2

Conc: 450



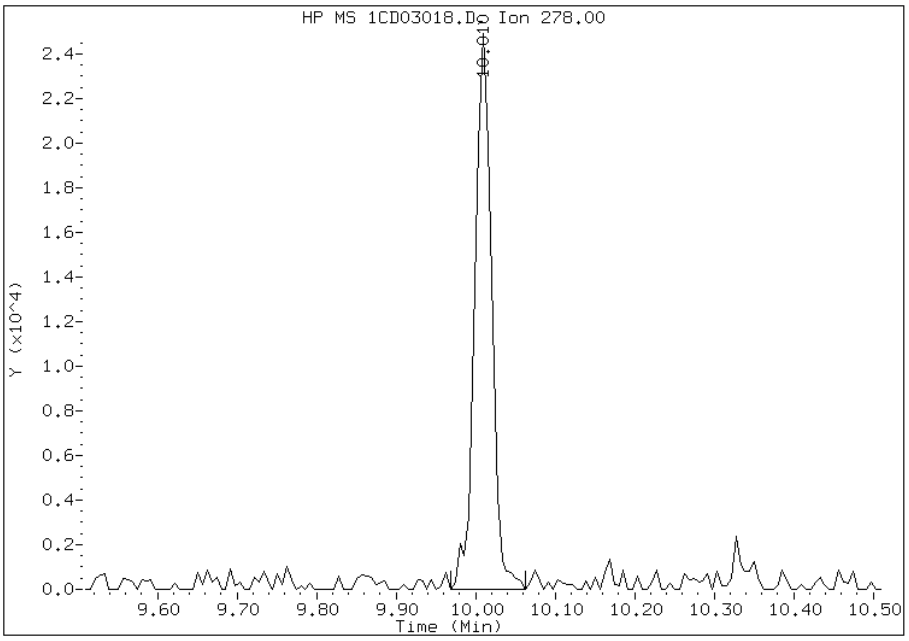
Manual Integration Results

RT: 10.01

Response: 36413

Amount: 2

Conc: 460



Manually Integrated By: cantins
Modification Date: 04-Apr-2013 15:34
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD03018.D
Inj. Date and Time: 03-APR-2013 16:29
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/04/2013

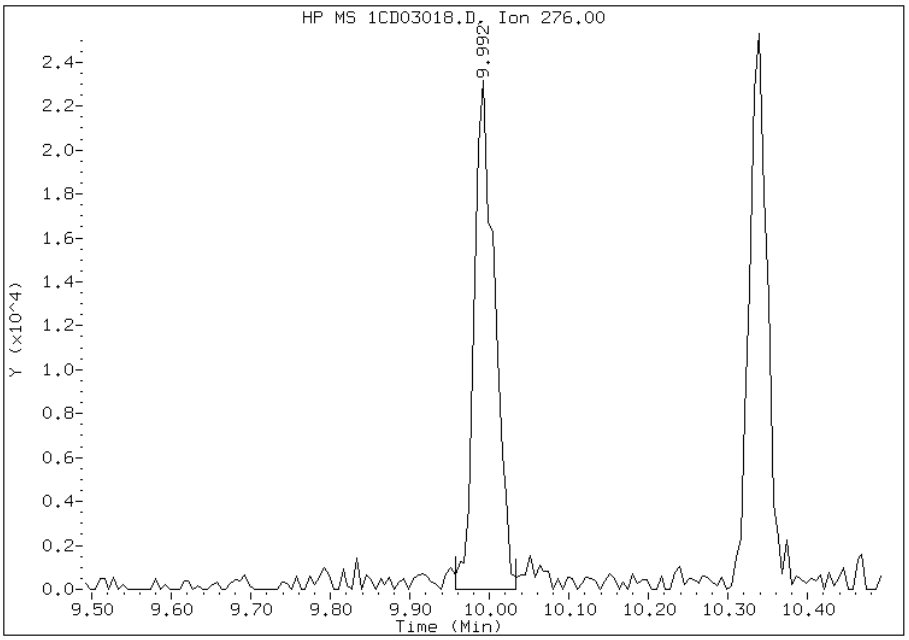
Processing Integration Results

RT: 9.99

Response: 41575

Amount: 2

Conc: 485



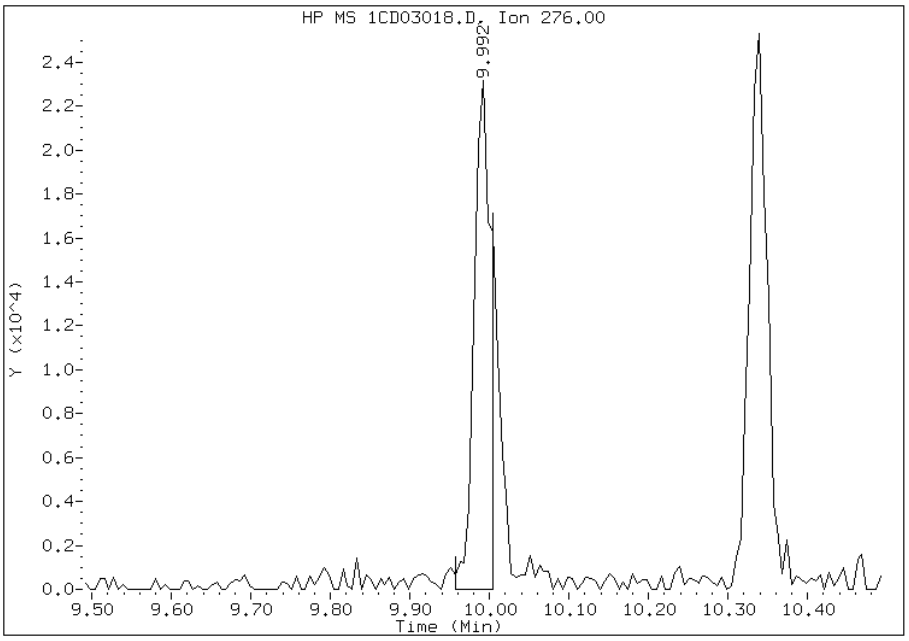
Manual Integration Results

RT: 9.99

Response: 33696

Amount: 2

Conc: 393



Manually Integrated By: cantins
Modification Date: 04-Apr-2013 15:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-1

SDG No.: 68088766-1

Client Sample ID: CV0613E-CS MS | Lab Sample ID: 680-88766-6 MS

Matrix: Solid | Lab File ID: 1DD03008.D

Analysis Method: 8270C LL | Date Collected: 03/25/2013 13:43

Extract. Method: 3546 | Date Extracted: 04/01/2013 13:16

Sample wt/vol: 14.98(g) | Date Analyzed: 04/03/2013 13:52

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

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

% Moisture: 15.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136118 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	547		470	94
208-96-8	Acenaphthylene	605		190	24
120-12-7	Anthracene	727		40	20
56-55-3	Benzo[a]anthracene	1210		38	18
50-32-8	Benzo[a]pyrene	1100		49	25
205-99-2	Benzo[b]fluoranthene	1640		58	29
191-24-2	Benzo[g,h,i]perylene	1190		94	21
207-08-9	Benzo[k]fluoranthene	941		38	17
218-01-9	Chrysene	1200		42	21
53-70-3	Dibenz(a,h)anthracene	764		94	19
206-44-0	Fluoranthene	1520		94	19
86-73-7	Fluorene	589		94	19
193-39-5	Indeno[1,2,3-cd]pyrene	1080		94	34
90-12-0	1-Methylnaphthalene	609		190	21
91-57-6	2-Methylnaphthalene	655		190	34
91-20-3	Naphthalene	634		190	21
85-01-8	Phenanthrene	1070		38	18
129-00-0	Pyrene	1520		94	17

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040313.b\1DD03008.D
Lab Smp Id: 680-88766-A-6-H MS
Inj Date : 03-APR-2013 13:52
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88766-A-6-H MS
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040313.b\dFASTPAHi.m
Meth Date : 03-Apr-2013 12:14 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 8 QC Sample: MS
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.084	6.083	(1.000)	1565428	40.0000	
* 6 Acenaphthene-d10	164	7.764	7.764	(1.000)	933161	40.0000	
* 9 Phenanthrene-d10	188	9.028	9.027	(1.000)	1505973	40.0000	
$ 13 o-Terphenyl	230	9.333	9.338	(1.034)	40071	1.72064	460
* 17 Chrysene-d12	240	11.343	11.348	(1.000)	1367144	40.0000	
* 22 Perylene-d12	264	13.182	13.187	(1.000)	1425874	40.0000	
2 Naphthalene	128	6.108	6.107	(1.004)	84279	2.01257	540
3 2-Methylnaphthalene	142	6.813	6.812	(1.120)	55539	2.08202	560
4 1-Methylnaphthalene	142	6.907	6.906	(1.135)	48314	1.93412	520
5 Acenaphthylene	152	7.635	7.640	(0.983)	79075	1.92206	510
7 Acenaphthene	154	7.788	7.793	(1.003)	43579	1.73728	460
8 Fluorene	166	8.234	8.234	(1.061)	54882	1.87258	500
10 Phenanthrene	178	9.045	9.045	(1.002)	145223	3.39706	910(R)
11 Anthracene	178	9.086	9.086	(1.007)	98737	2.30845	620

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.222	9.227	(1.021)	75367	1.97109	530
14 Fluoranthene	202	10.026	10.032	(1.111)	215509	4.83070	1300(R)
15 Pyrene	202	10.215	10.220	(0.901)	205321	4.84161	1300(R)
16 Benzo(a)anthracene	228	11.331	11.330	(0.999)	143527	3.83461	1000(R)
18 Chrysene	228	11.366	11.371	(1.002)	147787	3.82452	1000(R)
19 Benzo(b)fluoranthene	252	12.635	12.646	(0.959)	191426	5.21572	1400(R)
20 Benzo(k)fluoranthene	252	12.670	12.682	(0.961)	114870	2.98923	800
21 Benzo(a)pyrene	252	13.088	13.099	(0.993)	127172	3.50149	930(R)
23 Indeno(1,2,3-cd)pyrene	276	14.774	14.791	(1.121)	132650	3.42239	910(RM)
24 Dibenzo(a,h)anthracene	278	14.803	14.820	(1.123)	86894	2.42753	650
25 Benzo(g,h,i)perylene	276	15.220	15.232	(1.155)	139813	3.78335	1000(R)

QC Flag Legend

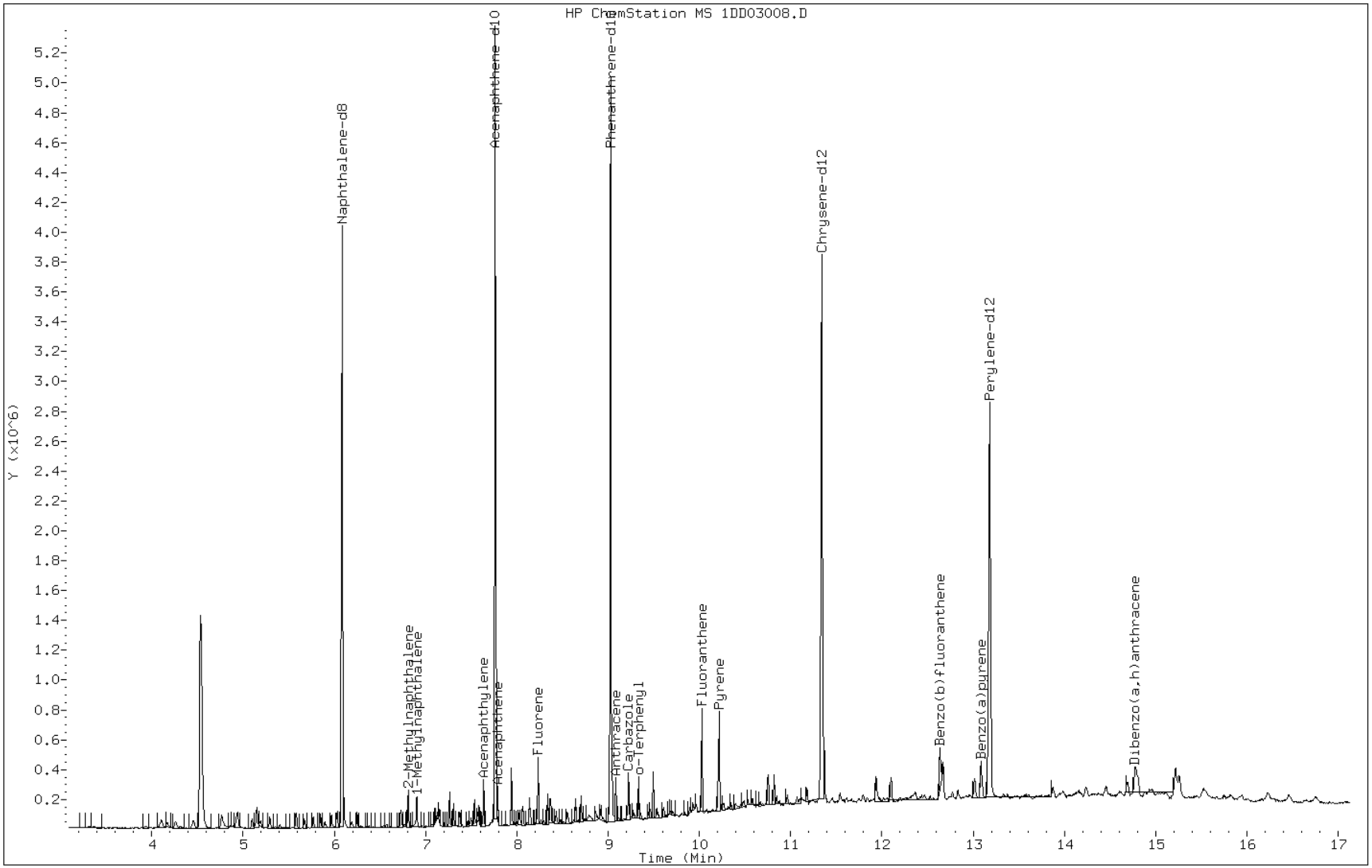
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DD03008.D

Date: 03-APR-2013 13:52

Client ID: Instrument: BSMSD.i

Sample Info: 680-88766-A-6-H MS Operator: SCC



Manual Integration Report

Data File: 1DD03008.D
Inj. Date and Time: 03-APR-2013 13:52
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/04/2013

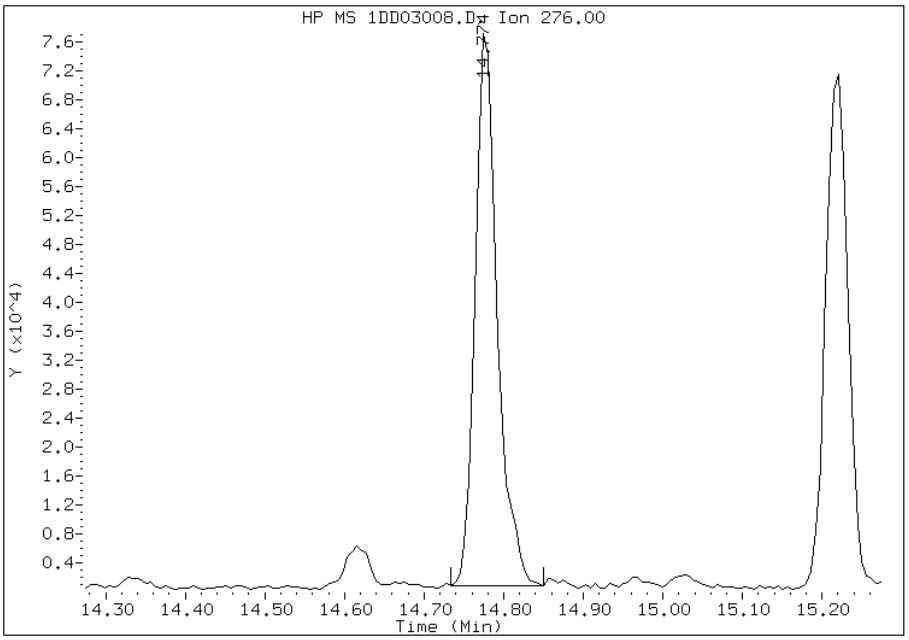
Processing Integration Results

RT: 14.77

Response: 147032

Amount: 4

Conc: 1013



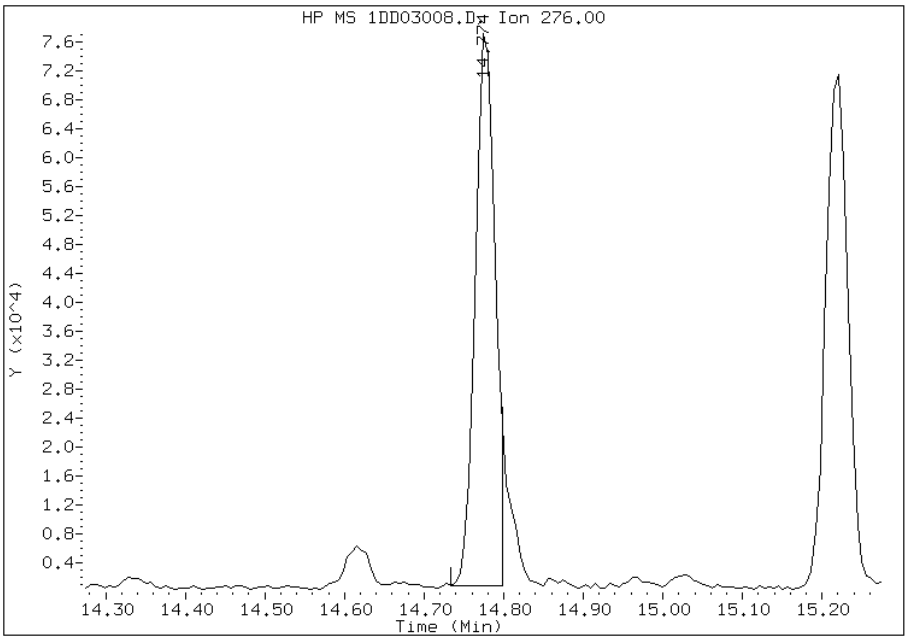
Manual Integration Results

RT: 14.77

Response: 132650

Amount: 3

Conc: 914



Manually Integrated By: cantins
Modification Date: 04-Apr-2013 11:56
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88766-1
SDG No.: 68088766-1
Client Sample ID:
Lab Sample ID: 680-88632-A-21-C MSD
Matrix: Solid
Lab File ID: 1CD02030.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 03/29/2013 10:19
Sample wt/vol: 15.05(g)
Date Analyzed: 04/02/2013 21:14
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 18.4
GPC Cleanup:(Y/N) N
Analysis Batch No.: 136079
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	487		120	24
208-96-8	Acenaphthylene	546		49	6.1
120-12-7	Anthracene	560		10	5.1
56-55-3	Benzo[a]anthracene	708		9.8	4.8
50-32-8	Benzo[a]pyrene	651		13	6.4
205-99-2	Benzo[b]fluoranthene	797		15	7.5
191-24-2	Benzo[g,h,i]perylene	579		24	5.4
207-08-9	Benzo[k]fluoranthene	696		9.8	4.4
218-01-9	Chrysene	684		11	5.5
53-70-3	Dibenz(a,h)anthracene	567		24	5.0
206-44-0	Fluoranthene	765		24	4.9
86-73-7	Fluorene	538		24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	581		24	8.7
90-12-0	1-Methylnaphthalene	644		49	5.4
91-57-6	2-Methylnaphthalene	622		49	8.7
91-20-3	Naphthalene	608		49	5.4
85-01-8	Phenanthrene	684		9.8	4.8
129-00-0	Pyrene	746		24	4.5

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\1C040213B.b\1CD02030.D
Lab Smp Id: 680-88632-a-21-c ms
Inj Date : 02-APR-2013 21:14
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88632-a-21-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213B.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 16:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 29 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	15.050	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	3.710	3.710	(1.000)	597406	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	494548	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	988760	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	90848	6.35450	422.2257
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	1197197	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	1105114	40.0000	
2 Naphthalene	128	3.727	3.721	(1.005)	114458	7.45934	495.6374
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	79708	7.63116	507.0535
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	74315	7.90709	525.3878
5 Acenaphthylene	152	4.710	4.710	(0.982)	137103	6.69836	445.0740
7 Acenaphthene	154	4.821	4.821	(1.005)	75785	5.97800	397.2094
9 Fluorene	166	5.139	5.139	(1.071)	111591	6.60298	438.7358
11 Phenanthrene	178	5.762	5.763	(1.003)	241783	8.39603	557.8760
12 Anthracene	178	5.798	5.798	(1.009)	200584	6.87120	456.5580

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.904	5.904	(1.028)	185427	7.41408	492.6301
15 Fluoranthene	202	6.598	6.598	(1.148)	298637	9.39022	623.9349
16 Pyrene	202	6.762	6.762	(0.880)	303582	9.15416	608.2499
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	296917	8.69510	577.7478
19 Chrysene	228	7.704	7.704	(1.002)	286623	8.40170	558.2524
20 Benzo(b)fluoranthene	252	8.515	8.521	(0.961)	305637	9.78273	650.0152
21 Benzo(k)fluoranthene	252	8.539	8.545	(0.963)	258319	8.54876	568.0238
22 Benzo(a)pyrene	252	8.803	8.809	(0.993)	234959	7.98797	530.7622
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.015	(1.129)	199356	7.13571	474.1332(M)
25 Dibenzo(a,h)anthracene	278	10.027	10.027	(1.131)	179461	6.95371	462.0405
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	202688	7.10840	472.3189

QC Flag Legend

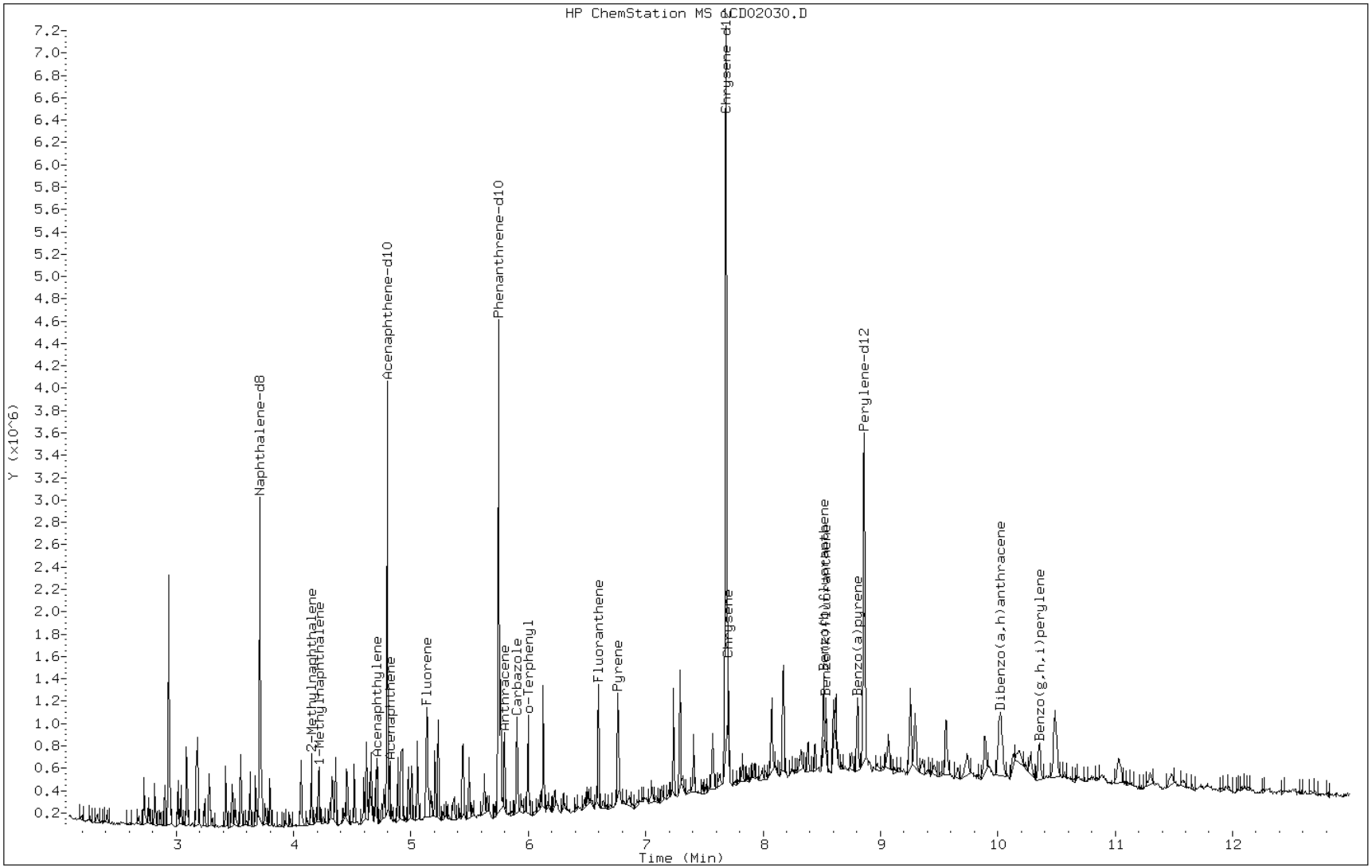
M - Compound response manually integrated.

Data File: 1CD02030.D

Date: 02-APR-2013 21:14

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88632-a-21-c msd Operator: SCC



Manual Integration Report

Data File: 1CD02030.D
Inj. Date and Time: 02-APR-2013 21:14
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

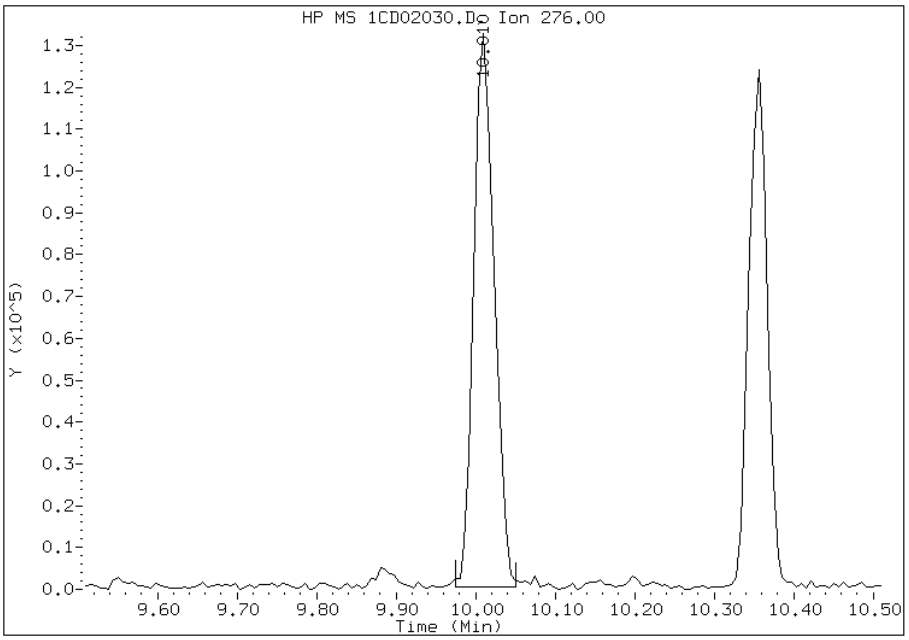
Processing Integration Results

RT: 10.01

Response: 234569

Amount: 8

Conc: 558



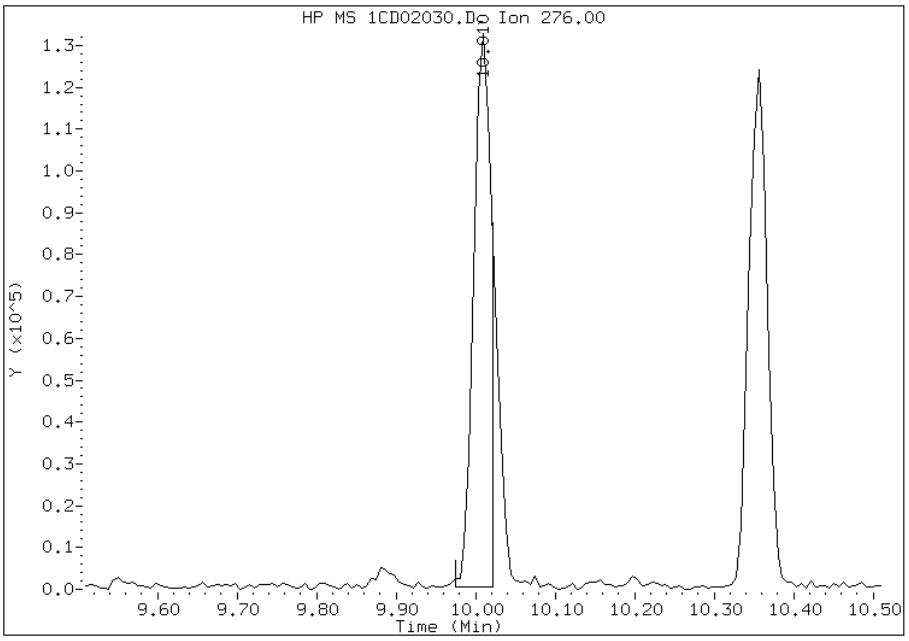
Manual Integration Results

RT: 10.01

Response: 199356

Amount: 7

Conc: 474



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 12:35
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-1

SDG No.: 68088766-1

Client Sample ID: | Lab Sample ID: 680-88766-A-21-F MSD

Matrix: Solid | Lab File ID: 1CD03019.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/02/2013 11:33

Sample wt/vol: 14.60(g) | Date Analyzed: 04/03/2013 16:47

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

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

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

Analysis Batch No.: 136081 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	669		560	110
208-96-8	Acenaphthylene	686		220	28
120-12-7	Anthracene	674		47	23
56-55-3	Benzo[a]anthracene	856		44	22
50-32-8	Benzo[a]pyrene	651		58	29
205-99-2	Benzo[b]fluoranthene	710		68	34
191-24-2	Benzo[g,h,i]perylene	618		110	24
207-08-9	Benzo[k]fluoranthene	822		44	20
218-01-9	Chrysene	739		50	25
53-70-3	Dibenz(a,h)anthracene	713		110	23
206-44-0	Fluoranthene	780		110	22
86-73-7	Fluorene	657		110	23
193-39-5	Indeno[1,2,3-cd]pyrene	659		110	39
90-12-0	1-Methylnaphthalene	709		220	24
91-57-6	2-Methylnaphthalene	671		220	39
91-20-3	Naphthalene	648		220	24
85-01-8	Phenanthrene	758		44	22
129-00-0	Pyrene	878		110	21

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	97		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03019.D
Lab Smp Id: 680-88766-a-21-f ms
Inj Date : 03-APR-2013 16:47
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88766-a-21-f msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m
Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 19 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.600	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	3.710	3.704	(1.000)	599290	40.0000	
* 6 Acenaphthene-d10	164	4.792	4.792	(1.000)	437990	40.0000	
* 10 Phenanthrene-d10	188	5.739	5.739	(1.000)	801261	40.0000	
$ 14 o-Terphenyl	230	5.992	5.992	(1.044)	22282	2.42909	665.5045
* 18 Chrysene-d12	240	7.680	7.680	(1.000)	885431	40.0000	
* 23 Perylene-d12	264	8.850	8.851	(1.000)	855561	40.0000	
2 Naphthalene	128	3.721	3.722	(1.003)	26909	1.74817	478.9516
3 2-Methylnaphthalene	142	4.145	4.145	(1.117)	18972	1.81065	496.0680
4 1-Methylnaphthalene	142	4.210	4.210	(1.135)	18036	1.91299	524.1069
5 Acenaphthylene	152	4.704	4.704	(0.982)	33560	1.85135	507.2185
7 Acenaphthene	154	4.815	4.816	(1.005)	20252	1.80379	494.1878
9 Fluorene	166	5.133	5.133	(1.071)	26513	1.77139	485.3117
11 Phenanthrene	178	5.757	5.757	(1.003)	47684	2.04333	559.8158
12 Anthracene	178	5.792	5.792	(1.009)	43006	1.81795	498.0687

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.898	5.898	(1.028)	40592	2.00282	548.7177
15 Fluoranthene	202	6.592	6.592	(1.149)	54214	2.10359	576.3252
16 Pyrene	202	6.756	6.757	(0.880)	58049	2.36673	648.4183
17 Benzo(a)anthracene	228	7.668	7.668	(0.998)	55755	2.30886	632.5654
19 Chrysene	228	7.698	7.698	(1.002)	50258	1.99192	545.7319
20 Benzo(b)fluoranthene	252	8.509	8.509	(0.961)	46327	1.91533	524.7488
21 Benzo(k)fluoranthene	252	8.527	8.533	(0.963)	51872	2.21736	607.4953
22 Benzo(a)pyrene	252	8.792	8.798	(0.993)	39958	1.75471	480.7413
24 Indeno(1,2,3-cd)pyrene	276	9.992	9.992	(1.129)	38467	1.77849	487.2581(M)
25 Dibenzo(a,h)anthracene	278	10.009	10.009	(1.131)	38424	1.92311	526.8807
26 Benzo(g,h,i)perylene	276	10.333	10.339	(1.167)	36793	1.66673	456.6381

QC Flag Legend

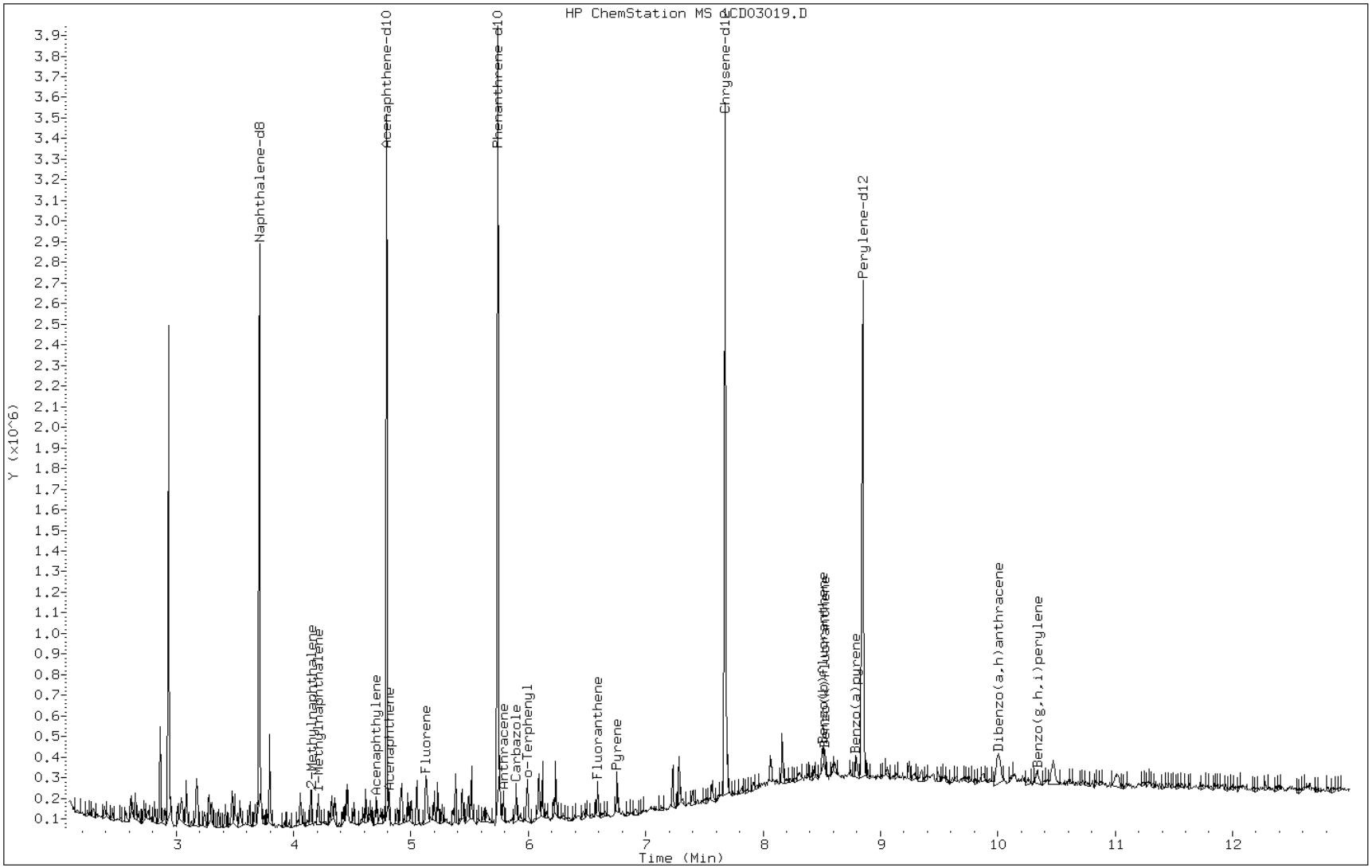
M - Compound response manually integrated.

Data File: 1CD03019.D

Date: 03-APR-2013 16:47

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88766-a-21-f msd Operator: SCC



Manual Integration Report

Data File: 1CD03019.D
Inj. Date and Time: 03-APR-2013 16:47
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/04/2013

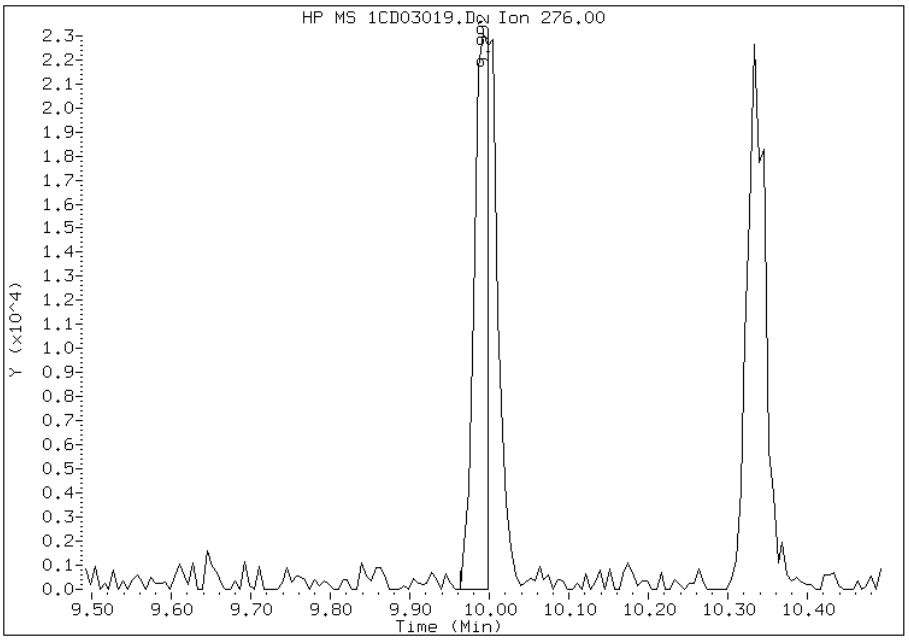
Processing Integration Results

RT: 9.99

Response: 30001

Amount: 1

Conc: 380



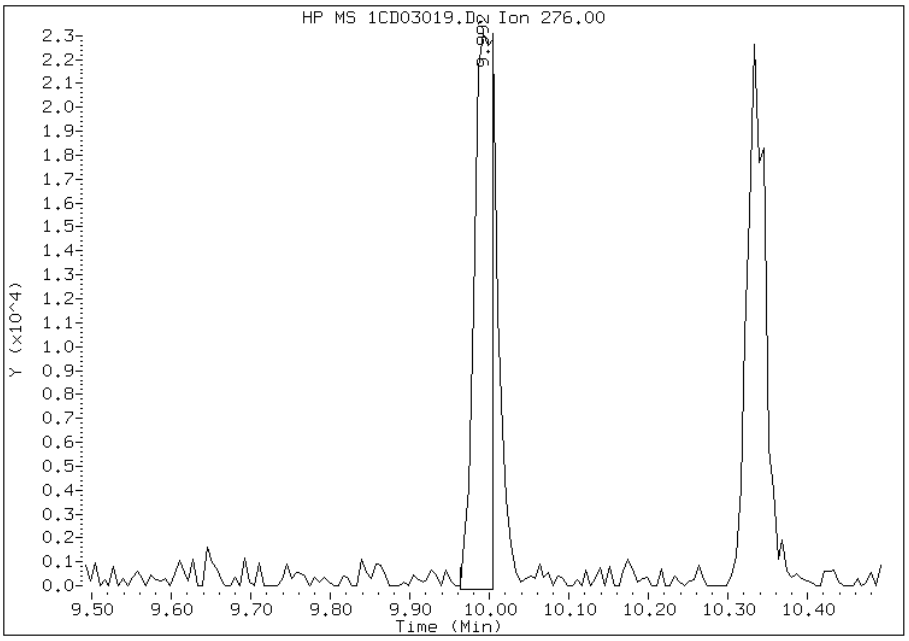
Manual Integration Results

RT: 9.99

Response: 38467

Amount: 2

Conc: 487



Manually Integrated By: cantins
Modification Date: 04-Apr-2013 15:35
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-1

SDG No.: 68088766-1

Client Sample ID: CV0613E-CS MSD | Lab Sample ID: 680-88766-6 MSD

Matrix: Solid | Lab File ID: 1DD03009.D

Analysis Method: 8270C LL | Date Collected: 03/25/2013 13:43

Extract. Method: 3546 | Date Extracted: 04/01/2013 13:16

Sample wt/vol: 15.04(g) | Date Analyzed: 04/03/2013 14:15

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

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

% Moisture: 15.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136118 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	504		470	94
208-96-8	Acenaphthylene	582		190	24
120-12-7	Anthracene	668		40	20
56-55-3	Benzo[a]anthracene	1050		38	18
50-32-8	Benzo[a]pyrene	993		49	24
205-99-2	Benzo[b]fluoranthene	1340		57	29
191-24-2	Benzo[g,h,i]perylene	1090		94	21
207-08-9	Benzo[k]fluoranthene	839		38	17
218-01-9	Chrysene	1060		42	21
53-70-3	Dibenz(a,h)anthracene	735		94	19
206-44-0	Fluoranthene	1210		94	19
86-73-7	Fluorene	558		94	19
193-39-5	Indeno[1,2,3-cd]pyrene	978		94	33
90-12-0	1-Methylnaphthalene	581		190	21
91-57-6	2-Methylnaphthalene	603		190	33
91-20-3	Naphthalene	573		190	21
85-01-8	Phenanthrene	872		38	18
129-00-0	Pyrene	1210		94	17

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040313.b\1DD03009.D
Lab Smp Id: 680-88766-A-6-I MSD
Inj Date : 03-APR-2013 14:15
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88766-A-6-I MSD
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040313.b\dFASTPAHi.m
Meth Date : 03-Apr-2013 12:14 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
Als bottle: 9 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.083	6.083	(1.000)	1565813	40.0000	
* 6 Acenaphthene-d10	164	7.763	7.764	(1.000)	932778	40.0000	
* 9 Phenanthrene-d10	188	9.027	9.027	(1.000)	1465661	40.0000	
$ 13 o-Terphenyl	230	9.332	9.338	(1.034)	37165	1.63975	440
* 17 Chrysene-d12	240	11.342	11.348	(1.000)	1327104	40.0000	
* 22 Perylene-d12	264	13.187	13.187	(1.000)	1449540	40.0000	
2 Naphthalene	128	6.107	6.107	(1.004)	76573	1.82810	490
3 2-Methylnaphthalene	142	6.812	6.812	(1.120)	51318	1.92331	510
4 1-Methylnaphthalene	142	6.906	6.906	(1.135)	46322	1.85392	490
5 Acenaphthylene	152	7.634	7.640	(0.983)	76319	1.85583	490
7 Acenaphthene	154	7.787	7.793	(1.003)	40271	1.60607	430
8 Fluorene	166	8.234	8.234	(1.061)	52129	1.77938	470
10 Phenanthrene	178	9.044	9.045	(1.002)	115644	2.77955	740
11 Anthracene	178	9.085	9.086	(1.007)	88742	2.13184	570

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.226	9.227	(1.022)	70636	1.89817	500
14 Fluoranthene	202	10.026	10.032	(1.111)	167104	3.84871	1000(R)
15 Pyrene	202	10.214	10.220	(0.901)	158293	3.84528	1000(R)
16 Benzo(a)anthracene	228	11.330	11.330	(0.999)	122155	3.36208	890(R)
18 Chrysene	228	11.365	11.371	(1.002)	126256	3.36591	900(R)
19 Benzo(b)fluoranthene	252	12.634	12.646	(0.958)	159655	4.27905	1100(R)
20 Benzo(k)fluoranthene	252	12.669	12.682	(0.961)	104479	2.67444	710
21 Benzo(a)pyrene	252	13.087	13.099	(0.992)	116971	3.16804	840
23 Indeno(1,2,3-cd)pyrene	276	14.779	14.791	(1.121)	122853	3.11788	830(M)
24 Dibenzo(a,h)anthracene	278	14.802	14.820	(1.123)	85260	2.34299	620
25 Benzo(g,h,i)perylene	276	15.219	15.232	(1.154)	130562	3.47534	920(R)

QC Flag Legend

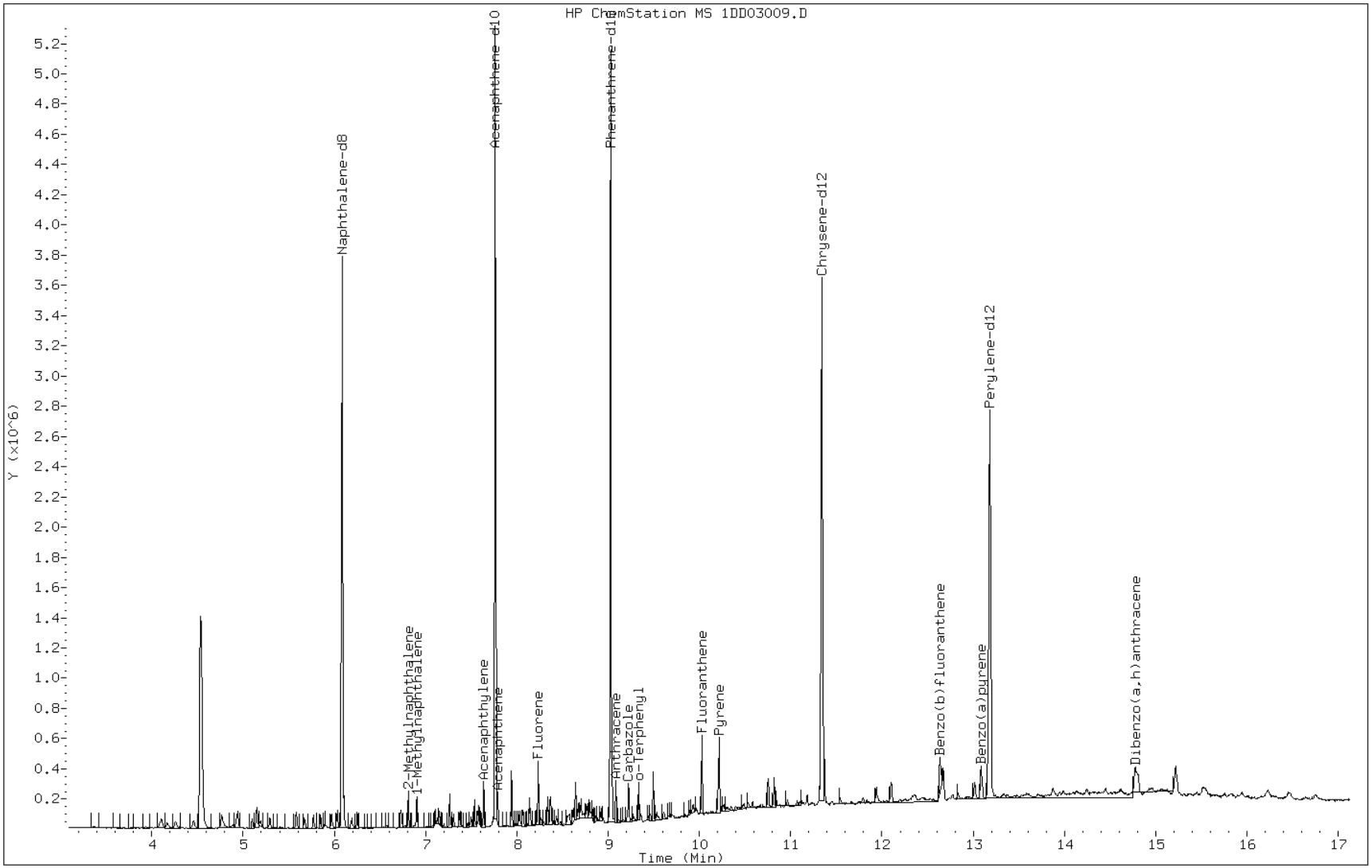
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DD03009.D

Date: 03-APR-2013 14:15

Client ID: Instrument: BSMSD.i

Sample Info: 680-88766-A-6-I MSD Operator: SCC



Manual Integration Report

Data File: 1DD03009.D
Inj. Date and Time: 03-APR-2013 14:15
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/04/2013

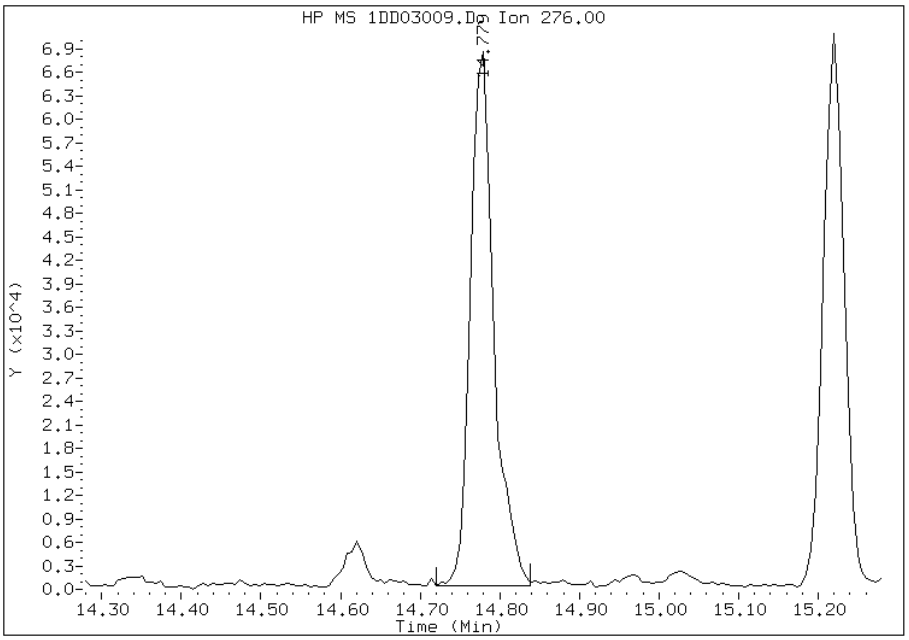
Processing Integration Results

RT: 14.78

Response: 139062

Amount: 4

Conc: 939



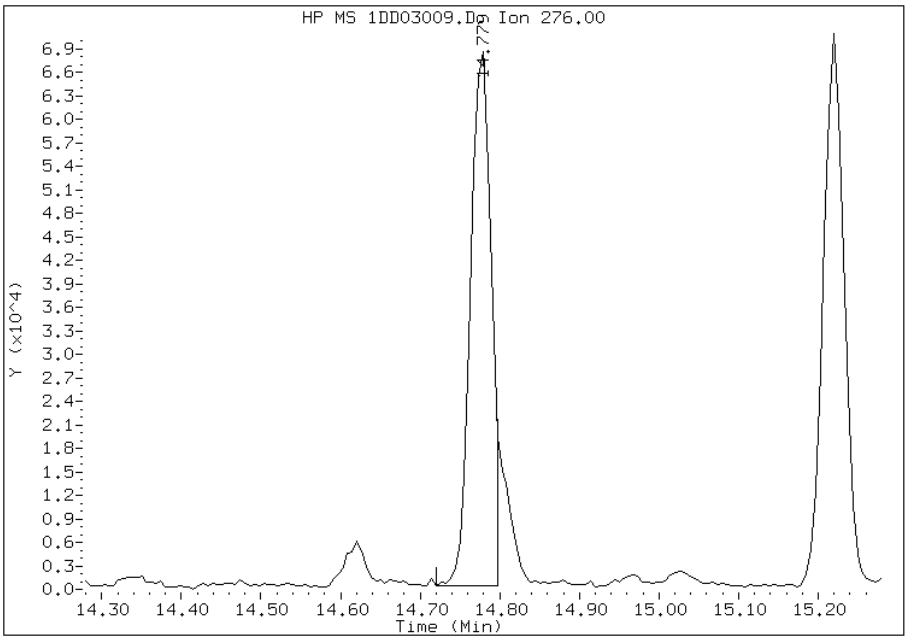
Manual Integration Results

RT: 14.78

Response: 122853

Amount: 3

Conc: 829



Manually Integrated By: cantins
Modification Date: 04-Apr-2013 11:57
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Instrument ID: BSMC5973 Start Date: 04/02/2013 10:54

Analysis Batch Number: 136048 End Date: 04/02/2013 15:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/02/2013 10:54	1		DB-5MS 250(um)
ZZZZZ		04/02/2013 11:13	1		DB-5MS 250(um)
DFTPP 660-136048/2		04/02/2013 11:31	1	1CD02002.D	DB-5MS 250(um)
CCVIS 660-136048/3		04/02/2013 11:49	1		DB-5MS 250(um)
CCVIS 660-136048/4		04/02/2013 12:09	1		DB-5MS 250(um)
IC 660-136048/5		04/02/2013 13:26	1	1CD02005.D	DB-5MS 250(um)
IC 660-136048/6		04/02/2013 13:44	1	1CD02006.D	DB-5MS 250(um)
IC 660-136048/7		04/02/2013 14:02	1	1CD02007.D	DB-5MS 250(um)
IC 660-136048/8		04/02/2013 14:20	1	1CD02008.D	DB-5MS 250(um)
ICIS 660-136048/9		04/02/2013 14:39	1	1CD02009.D	DB-5MS 250(um)
IC 660-136048/10		04/02/2013 14:57	1	1CD02010.D	DB-5MS 250(um)
IC 660-136048/11		04/02/2013 15:15	1	1CD02011.D	DB-5MS 250(um)
ICV 660-136048/12		04/02/2013 15:34	1	1CD02012.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Instrument ID: BSMC5973 Start Date: 04/02/2013 16:01

Analysis Batch Number: 136079 End Date: 04/03/2013 00:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 660-136079/1		04/02/2013 16:01	1		DB-5MS 250(um)
DFTPP 660-136079/2		04/02/2013 16:23	1	1CD02014.D	DB-5MS 250(um)
CCVIS 660-136079/3		04/02/2013 16:40	1	1CD02015.D	DB-5MS 250(um)
ZZZZZ		04/02/2013 16:58	1		DB-5MS 250(um)
ZZZZZ		04/02/2013 17:16	1		DB-5MS 250(um)
ZZZZZ		04/02/2013 17:35	1		DB-5MS 250(um)
ZZZZZ		04/02/2013 17:53	1		DB-5MS 250(um)
ZZZZZ		04/02/2013 18:11	1		DB-5MS 250(um)
ZZZZZ		04/02/2013 18:29	1		DB-5MS 250(um)
ZZZZZ		04/02/2013 18:48	1		DB-5MS 250(um)
ZZZZZ		04/02/2013 19:06	1		DB-5MS 250(um)
ZZZZZ		04/02/2013 19:24	1		DB-5MS 250(um)
ZZZZZ		04/02/2013 19:42	1		DB-5MS 250(um)
MB 660-135924/1-A		04/02/2013 20:01	1	1CD02026.D	DB-5MS 250(um)
LCS 660-135924/2-A		04/02/2013 20:19	1	1CD02027.D	DB-5MS 250(um)
ZZZZZ		04/02/2013 20:37	1		DB-5MS 250(um)
680-88632-A-21-B MS		04/02/2013 20:56	1	1CD02029.D	DB-5MS 250(um)
680-88632-A-21-C MSD		04/02/2013 21:14	1	1CD02030.D	DB-5MS 250(um)
ZZZZZ		04/02/2013 21:32	1		DB-5MS 250(um)
680-88766-1	CV0613A-CS	04/02/2013 21:51	4	1CD02032.D	DB-5MS 250(um)
680-88766-2	CV0613A-CSD	04/02/2013 22:09	1	1CD02033.D	DB-5MS 250(um)
680-88766-3	CV0613B-CS	04/02/2013 22:27	4	1CD02034.D	DB-5MS 250(um)
680-88766-4	CV0613C-CS	04/02/2013 22:46	1	1CD02035.D	DB-5MS 250(um)
680-88766-5	CV0613D-CS	04/02/2013 23:04	4	1CD02036.D	DB-5MS 250(um)
680-88766-7	CV0613F-CS	04/02/2013 23:22	1	1CD02037.D	DB-5MS 250(um)
680-88766-8	CV0613G-CS	04/02/2013 23:41	1	1CD02038.D	DB-5MS 250(um)
680-88766-9	CV0613H-CS	04/02/2013 23:59	4	1CD02039.D	DB-5MS 250(um)
680-88766-10	CV0613I-CS	04/03/2013 00:17	1	1CD02040.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Instrument ID: BSMC5973 Start Date: 04/03/2013 10:52

Analysis Batch Number: 136081 End Date: 04/03/2013 22:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/03/2013 10:52	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 11:10	1		DB-5MS 250(um)
DFTPP 660-136081/2		04/03/2013 11:28	1	1CD03002.D	DB-5MS 250(um)
CCVIS 660-136081/3		04/03/2013 11:45	1	1CD03003.D	DB-5MS 250(um)
ZZZZZ		04/03/2013 12:04	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 12:22	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 12:40	4		DB-5MS 250(um)
680-88766-11	CV0613J-CS	04/03/2013 12:59	4	1CD03007.D	DB-5MS 250(um)
680-88766-12	CV0613K-CS	04/03/2013 13:17	1	1CD03008.D	DB-5MS 250(um)
680-88766-13	CV0613K-CSD	04/03/2013 13:35	1	1CD03009.D	DB-5MS 250(um)
680-88766-14	CV0613AB-GS	04/03/2013 13:54	1	1CD03010.D	DB-5MS 250(um)
680-88766-15	CV0613AC-GS	04/03/2013 14:12	4	1CD03011.D	DB-5MS 250(um)
680-88766-16	CV0610A-CS	04/03/2013 14:30	4	1CD03012.D	DB-5MS 250(um)
680-88766-18	CV0610AB-GS	04/03/2013 14:49	4	1CD03013.D	DB-5MS 250(um)
680-88766-19	CV0506A-CS	04/03/2013 15:07	4	1CD03014.D	DB-5MS 250(um)
MB 660-136063/1-A		04/03/2013 15:34	1	1CD03015.D	DB-5MS 250(um)
LCS 660-136063/2-A		04/03/2013 15:52	1	1CD03016.D	DB-5MS 250(um)
ZZZZZ		04/03/2013 16:10	4		DB-5MS 250(um)
680-88766-A-21-E MS		04/03/2013 16:29	4	1CD03018.D	DB-5MS 250(um)
680-88766-A-21-F MSD		04/03/2013 16:47	4	1CD03019.D	DB-5MS 250(um)
ZZZZZ		04/03/2013 17:05	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 17:24	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 17:42	1		DB-5MS 250(um)
680-88766-17	CV0610B-CS	04/03/2013 18:00	4	1CD03023.D	DB-5MS 250(um)
680-88766-20	CV0506B-CS	04/03/2013 18:19	1	1CD03024.D	DB-5MS 250(um)
ZZZZZ		04/03/2013 18:37	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 18:55	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 19:13	4		DB-5MS 250(um)
ZZZZZ		04/03/2013 19:32	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 19:50	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 20:08	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 20:27	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 20:45	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 21:03	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 21:21	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 21:40	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 21:58	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 22:17	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 22:35	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

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.: 680-88766-1

SDG No.: 68088766-1

Instrument ID: BSMD5973 Start Date: 04/03/2013 10:51

Analysis Batch Number: 136118 End Date: 04/03/2013 20:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/03/2013 10:51	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 11:14	1		DB-5MS 250(um)
DFTPP 660-136118/2		04/03/2013 11:38	1	1DD03002.D	DB-5MS 250(um)
CCVIS 660-136118/3		04/03/2013 11:55	1	1DD03003.D	DB-5MS 250(um)
ZZZZZ		04/03/2013 12:20	1		DB-5MS 250(um)
MB 660-136026/1-A		04/03/2013 12:45	1	1DD03005.D	DB-5MS 250(um)
LCS 660-136026/2-A		04/03/2013 13:07	1	1DD03006.D	DB-5MS 250(um)
680-88766-6	CV0613E-CS	04/03/2013 13:30	4	1DD03007.D	DB-5MS 250(um)
680-88766-6 MS	CV0613E-CS MS	04/03/2013 13:52	4	1DD03008.D	DB-5MS 250(um)
680-88766-6 MSD	CV0613E-CS MSD	04/03/2013 14:15	4	1DD03009.D	DB-5MS 250(um)
ZZZZZ		04/03/2013 14:37	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 15:00	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 15:23	4		DB-5MS 250(um)
ZZZZZ		04/03/2013 15:45	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 16:08	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 16:30	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 16:53	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 17:15	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 17:38	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 18:00	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 18:23	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 18:46	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 19:08	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 19:31	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 19:53	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 20:16	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 20:38	1		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Batch Number: 135924 Batch Start Date: 03/29/13 10:19 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 03/29/13 15:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00178		
MB 660-135924/1		3546, 8270C LL		15.12 g	1 mL		1 mL		
LCS 660-135924/2		3546, 8270C LL		15.01 g	1 mL	1 mL	1 mL		
680-88632-A-21 MS		3546, 8270C LL	T	15.01 g	1 mL	1 mL	1 mL		
680-88632-A-21 MSD		3546, 8270C LL	T	15.05 g	1 mL	1 mL	1 mL		
680-88766-A-1	CV0613A-CS	3546, 8270C LL	T	14.89 g	1 mL		1 mL		
680-88766-A-2	CV0613A-CSD	3546, 8270C LL	T	14.96 g	1 mL		1 mL		
680-88766-A-3	CV0613B-CS	3546, 8270C LL	T	14.89 g	1 mL		1 mL		
680-88766-A-4	CV0613C-CS	3546, 8270C LL	T	14.86 g	1 mL		1 mL		
680-88766-A-5	CV0613D-CS	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-88766-A-7	CV0613F-CS	3546, 8270C LL	T	15.37 g	1 mL		1 mL		
680-88766-A-8	CV0613G-CS	3546, 8270C LL	T	15.18 g	1 mL		1 mL		
680-88766-A-9	CV0613H-CS	3546, 8270C LL	T	14.84 g	1 mL		1 mL		
680-88766-A-10	CV0613I-CS	3546, 8270C LL	T	15.05 g	1 mL		1 mL		
680-88766-A-11	CV0613J-CS	3546, 8270C LL	T	14.92 g	1 mL		1 mL		
680-88766-A-12	CV0613K-CS	3546, 8270C LL	T	14.88 g	1 mL		1 mL		
680-88766-A-13	CV0613K-CSD	3546, 8270C LL	T	14.74 g	1 mL		1 mL		
680-88766-A-14	CV0613AB-GS	3546, 8270C LL	T	14.87 g	1 mL		1 mL		
680-88766-A-15	CV0613AC-GS	3546, 8270C LL	T	14.80 g	1 mL		1 mL		
680-88766-A-16	CV0610A-CS	3546, 8270C LL	T	14.82 g	1 mL		1 mL		
680-88766-A-18	CV0610AB-GS	3546, 8270C LL	T	15.05 g	1 mL		1 mL		
680-88766-A-19	CV0506A-CS	3546, 8270C LL	T	14.81 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.: 680-88766-1

SDG No.: 68088766-1

Batch Number: 135924 Batch Start Date: 03/29/13 10:19 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 03/29/13 15:30

Batch Notes	
Acetone Lot #	EX-ACETON BOT 51
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 55
MeCl2/Acetone Lot #	EX-DCM/ACETON 53
Microwave Start Time	12:00 3/29/13
Microwave Stop Time	12:30 3/29/13
Na2SO4 Lot Number	EX-NA2S04A 64
Ottawa Sand Lot #	EX-OTTOWA SAND 14
Person's name who did the prep	RN
SOP Number	TP-EX014
Person who witnessed spiking	SC
Surrogate Lot Number	EXLLSURINT 178
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.: 680-88766-1

SDG No.: 68088766-1

Batch Number: 136026 Batch Start Date: 04/01/13 13:16 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 04/02/13 11:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00178		
MB 660-136026/1		3546, 8270C LL		15.12 g	1 mL		1 mL		
LCS 660-136026/2		3546, 8270C LL		15.03 g	1 mL	1 mL	1 mL		
680-88766-A-6	CV0613E-CS	3546, 8270C LL	T	14.95 g	1 mL		1 mL		
680-88766-A-6 MS	CV0613E-CS	3546, 8270C LL	T	14.98 g	1 mL	1 mL	1 mL		
680-88766-A-6 MSD	CV0613E-CS	3546, 8270C LL	T	15.04 g	1 mL	1 mL	1 mL		

Batch Notes	
Acetone Lot #	EX-ACETON BOT 51
Balance ID	B001
Batch Comment	RUSH
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 55
MeCl2/Acetone Lot #	DCM/ACETON 57
Microwave Start Time	14:50 4/1/13
Microwave Stop Time	15:25 4/1/13
Na2SO4 Lot Number	EX-NA2S04A 64
Ottawa Sand Lot #	EX-OTTOWA SAND 14
Person's name who did the prep	RYAN
SOP Number	TP EX014
Person who witnessed spiking	SC
Surrogate Lot Number	EXLLSURINT 178
Water Bath ID	TURBOVAP2 #1-4
Water Bath Temperature	40

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

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Batch Number: 136026 Batch Start Date: 04/01/13 13:16 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 04/02/13 11:00

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.: 680-88766-1

SDG No.: 68088766-1

Batch Number: 136063 Batch Start Date: 04/02/13 11:33 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 04/03/13 08:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00178		
MB 660-136063/1		3546, 8270C LL		14.99 g	1 mL		1 mL		
LCS 660-136063/2		3546, 8270C LL		14.97 g	1 mL	1 mL	1 mL		
680-88766-A-21 MS		3546, 8270C LL	T	15.32 g	1 mL	1 mL	1 mL		
680-88766-A-21 MSD		3546, 8270C LL	T	14.60 g	1 mL	1 mL	1 mL		
680-88766-A-17	CV0610B-CS	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-88766-A-20	CV0506B-CS	3546, 8270C LL	T	15.28 g	1 mL		1 mL		

Batch Notes	
Acetone Lot #	EX-ACETON BOT 51
Balance ID	B001
Batch Comment	RUSH
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 55
MeCl2/Acetone Lot #	DCM/ACETON 58
Microwave Start Time	12:30 4/2/13
Microwave Stop Time	13:05 4/2/13
Na2SO4 Lot Number	EX-NA2S04A 65
Ottawa Sand Lot #	EX-OTTOWA SAND 14
Person's name who did the prep	RYAN
SOP Number	TP-EX014
Person who witnessed spiking	SC
Surrogate Lot Number	EXLLSURINT 178
Water Bath ID	TURBOVAP2 #1-4
Water Bath Temperature	40

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

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Batch Number: 136063 Batch Start Date: 04/02/13 11:33 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 04/03/13 08:20

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: 680-88766-1

SDG No.: 68088766-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0613A-CS	680-88766-1
CV0613A-CSD	680-88766-2
CV0613B-CS	680-88766-3
CV0613C-CS	680-88766-4
CV0613D-CS	680-88766-5
CV0613E-CS	680-88766-6
CV0613F-CS	680-88766-7
CV0613G-CS	680-88766-8
CV0613H-CS	680-88766-9
CV0613I-CS	680-88766-10
CV0613J-CS	680-88766-11
CV0613K-CS	680-88766-12
CV0613K-CSD	680-88766-13
CV0613AB-GS	680-88766-14
CV0613AC-GS	680-88766-15
CV0610A-CS	680-88766-16
CV0610B-CS	680-88766-17
CV0610AB-GS	680-88766-18
CV0506A-CS	680-88766-19
CV0506B-CS	680-88766-20

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88766-1

SDG Number: 68088766-1

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: 680-88766-1

SDG Number: 68088766-1

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: 680-88766-1

SDG Number: 68088766-1

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88766-1

SDG Number: 68088766-1

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Instrument ID: Moisture Method: Moisture

Start Date: 03/29/2013 06:29 End Date: 03/29/2013 13:05

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCS 660-135936/1	1	T	06:29	X																			
LCSD 660-135936/21	1	T	06:31	X																			
ZZZZZZ			08:33																				
ZZZZZZ			08:39																				
ZZZZZZ			10:30																				
ZZZZZZ			10:33																				
ZZZZZZ			10:58																				
ZZZZZZ			11:11																				
680-88766-1	1	T	11:42	X																			
680-88766-2	1	T	11:52	X																			
680-88766-3	1	T	11:55	X																			
680-88766-5	1	T	12:08	X																			
680-88766-4	1	T	12:20	X																			
ZZZZZZ			12:28																				
ZZZZZZ			12:29																				
ZZZZZZ			12:35																				
ZZZZZZ			12:38																				
ZZZZZZ			12:46																				
640-42916-A-9 MS	1	T	12:52	X																			
640-42916-A-9 MSD	1	T	13:04	X																			
ZZZZZZ			13:05																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Instrument ID: Moisture Method: Moisture

Start Date: 03/29/2013 13:14 End Date: 03/29/2013 13:54

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCSD 660-135940/7	1	T	13:14	X																			
LCS 660-135940/1	1	T	13:17	X																			
ZZZZZZ			13:24																				
ZZZZZZ			13:25																				
680-88766-17	1	T	13:38	X																			
680-88766-18	1	T	13:42	X																			
680-88766-19	1	T	13:54	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 03/29/2013 10:07 End Date: 03/29/2013 10:07

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 03/29/2013 10:07 End Date: 03/29/2013 10:07

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
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ZZZZZZ			10:07																				
680-88766-6	1	T	10:07	X																			
680-88766-6 MS	1	T	10:07	X																			
680-88766-6 MSD	1	T	10:07	X																			
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 03/29/2013 12:01 End Date: 03/29/2013 12:01

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
680-88766-7	1	T	12:01	X																			
680-88766-12	1	T	12:01	X																			
680-88766-8	1	T	12:01	X																			
680-88766-13	1	T	12:01	X																			
680-88766-14	1	T	12:01	X																			
680-88766-16	1	T	12:01	X																			
680-88766-15	1	T	12:01	X																			
680-88766-10	1	T	12:01	X																			
680-88766-11	1	T	12:01	X																			
680-88766-20	1	T	12:01	X																			
680-88766-9	1	T	12:01	X																			
ZZZZZZ			12:01																				

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Batch Number: 135922 Batch Start Date: 03/29/13 10:07 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-88766-A-6	CV0613E-CS	Moisture	T	51	0 g	4.48 g	3.80 g		
680-88766-A-6 MS	CV0613E-CS	Moisture	T	51	0 g	4.48 g	3.80 g		
680-88766-A-6 MSD	CV0613E-CS	Moisture	T	51	0 g	4.48 g	3.80 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	3.29.13
Date samples were removed from oven	3/30/13
Time Samples were removed from oven	8:30

Basis	Basis Description
T	Total/NA

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Batch Number: 135931 Batch Start Date: 03/29/13 12:01 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-88766-A-7	CV0613F-CS	Moisture	T	1	0 g	4.23 g	2.91 g		
680-88766-A-12	CV0613K-CS	Moisture	T	2	0 g	4.63 g	3.92 g		
680-88766-A-8	CV0613G-CS	Moisture	T	3	0 g	4.59 g	3.35 g		
680-88766-A-13	CV0613K-CSD	Moisture	T	4	0 g	4.60 g	4.01 g		
680-88766-A-14	CV0613AB-GS	Moisture	T	5	0 g	4.45 g	3.65 g		
680-88766-A-16	CV0610A-CS	Moisture	T	6	0 g	4.57 g	3.79 g		
680-88766-A-15	CV0613AC-GS	Moisture	T	7	0 g	4.34 g	3.65 g		
680-88766-A-10	CV0613I-CS	Moisture	T	8	0 g	4.50 g	3.42 g		
680-88766-A-11	CV0613J-CS	Moisture	T	9	0 g	5.14 g	4.19 g		
680-88766-A-20	CV0506B-CS	Moisture	T	10	0 g	6.02 g	3.78 g		
680-88766-A-9	CV0613H-CS	Moisture	T	11	0 g	6.56 g	5.51 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	3.29.13
Date samples were removed from oven	3.30.13
Time Samples were removed from oven	8:50

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.: 680-88766-1

SDG No.: 68088766-1

Batch Number: 135936 Batch Start Date: 03/29/13 06:29 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-135936/1		Moisture		0 g	10.009 g	9.002 g			
680-88766-A-2	CV0613A-CSD	Moisture	T	0 g	4.435 g	3.756 g			
680-88766-A-4	CV0613C-CS	Moisture	T	0 g	4.2 g	3.015 g			
640-42916-A-9 MS		Moisture	T	0 g	4.607 g	3.873 g			
640-42916-A-9 MSD		Moisture	T	0 g	4.175 g	3.486 g			
680-88766-A-5	CV0613D-CS	Moisture	T	0 g	4.622 g	3.815 g			
680-88766-A-3	CV0613B-CS	Moisture	T	0 g	4.338 g	3.683 g			
680-88766-A-1	CV0613A-CS	Moisture	T	0 g	4.231 g	3.615 g			
LCSD 660-135936/21		Moisture		0 g	10.014 g	9.014 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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88766-1

SDG No.: 68088766-1

Batch Number: 135940 Batch Start Date: 03/29/13 13:14 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-135940/1		Moisture		0 g	10.028 g	9.033 g			
680-88766-A-17	CV0610B-CS	Moisture	T	0 g	4.439 g	3.715 g			
680-88766-A-19	CV0506A-CS	Moisture	T	0 g	4.523 g	3.426 g			
680-88766-A-18	CV0610AB-GS	Moisture	T	0 g	4.77 g	3.747 g			
LCSD 660-135940/7		Moisture		0 g	10.019 g	9.026 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 59597

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.: 20051148-1356	PROJECT LOCATION (STATE): AL	PAGE 1 OF 2
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER:	CONTRACT NO.:	STANDARD REPORT DELIVERY ○
CLIENT (SITE) PM: R. Henderson	CLIENT PHONE: 678-355-5550	CLIENT FAX:	DATE DUE:
CLIENT NAME: OTIE	CLIENT E-MAIL: 2Krebs@OTIE		EXPEDITED REPORT DELIVERY (SURCHARGE) ○
CLIENT ADDRESS: 1220 Kennestone Circle Marietta, Ga			DATE DUE:
COMPANY CONTRACTING THIS WORK (if applicable):			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

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

REQUIRED ANALYSIS — NUMBER OF CONTAINERS SUBMITTED

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	RCRA 8 metals									REMARKS
3-25-13	1311	CV0613A-CS	C		X			X										
	1315	CV0613A-CSD	C		X			X										
	1320	CV0613B-CS	C		X			X										
	1325	CV0613C-CS	C		X			X										
	1330	CV0613D-CS	C		X			X										
	1343	CV0613E-CS	C		X			X	X									
	1348	CV0613F-CS	C		X			X										
	1400	CV0613G-CS	C		X			X										
	1407	CV0613H-CS	C		X			X										
	1417	CV0613I-CS	C		X			X										
	1425	CV0613J-CS	C		X			X										
	1426	CV0613K-CS	C		X			X	X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3-26-13	13:30						
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]	03/28/13	0937	YES ○ NO ○		680-88766	1.4°

TAL8240-680 (1008)

Serial Number 59598

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
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: R. Henderson	CLIENT PHONE: 678-355-5550	CLIENT FAX:
CLIENT NAME: OTIE	CLIENT E-MAIL: lkrebs@otie	
CLIENT ADDRESS: 1220 Kennestone Circle Marietta, Ga		
COMPANY CONTRACTING THIS WORK (if applicable):		

PAGE 2 OF 2

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

REQUIRED ANALYSIS / PRESERVATIVE: LPAH; RCRA 8 Metals

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LPAH	RCRA 8 Metals								REMARKS
3-25-13	1428	CV0613K-CSD	C		X			X	X								
	1332	CV0613AB-GS	G		X			X									
	1334	CV0613AC-GS	G		X			X									
	1440	CV0610A-CS	C		X			X									
	1442	CV0610B-CS	C		X			X									
	1439	CV0610AB-GS	G		X			X									
	1506	CV0506A-CS	C		X			X									
	1515	CV0506B-CS	C		X			X									
	1518	CV0014AB-GS	G		X			X									
	1343	CV0613E-CS (sieve)	C		X			X	X								
3-26-13	1300	032613-RB-Shovel		X				X	X								

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3-26-13	1330						
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]	03/28/13	0937	YES ○ NO ○		680-88766	1.4 c

TAL8240-680 (1008)

04/08/2013

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88766-1
SDG Number: 68088766-1

Login Number: 88766
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.	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	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88766-1
SDG Number: 68088766-1

Login Number: 88766
List Number: 1
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 03/29/13 09:17 AM

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