TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-88767-3

SDG Number: 68088767-3

Job Description: 35th Avenue Superfund Site

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

Attention: Ms. Limari F Krebs

Approved for release.
Bernard Kirkland
Project Manager I
4/9/2013 4:45 PM

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04/09/2013

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88767-3

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

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

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

RECEIPT

The samples were received on 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 CV0509DD-CS (680-88767-41), CV0509EE-CS (680-88767-42), CV0509FF-CS (680-88767-43), CV0509GG-CS (680-88767-44), CV0509HH-CS (680-88767-45), CV0509HH-CSD (680-88767-46), CV0509AG-GS (680-88767-47), CV0509AH-GS (680-88767-48), CV0509AI-GS (680-88767-49), CV0509AJ-GS (680-88767-50), CV0509AK-GS (680-88767-51), CV0509AL-GS (680-88767-52), CV0509AM-GS (680-88767-53) and CV0509AN-GS (680-88767-54) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/03/2013 and 04/04/2013 and analyzed on 04/05/2013.

Samples CV0509GG-CS (680-88767-44)[4X], CV0509AG-GS (680-88767-47)[4X], CV0509AH-GS (680-88767-48)[4X], CV0509AI-GS (680-88767-49)[4X] and CV0509AL-GS (680-88767-52)[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 680-88811-1 in batch 660-136171.

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: 680-88767-3
Sdg Number: 68088767-3

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-88767-41	CV0509DD-CS	Solid	03/26/2013 1458	03/28/2013 0937
680-88767-41MS	CV0509DD-CS	Solid	03/26/2013 1458	03/28/2013 0937
680-88767-41MSD	CV0509DD-CS	Solid	03/26/2013 1458	03/28/2013 0937
680-88767-42	CV0509EE-CS	Solid	03/26/2013 1510	03/28/2013 0937
680-88767-43	CV0509FF-CS	Solid	03/26/2013 1515	03/28/2013 0937
680-88767-44	CV0509GG-CS	Solid	03/26/2013 1520	03/28/2013 0937
680-88767-45	CV0509HH-CS	Solid	03/26/2013 1530	03/28/2013 0937
680-88767-46	CV0509HH-CSD	Solid	03/26/2013 1532	03/28/2013 0937
680-88767-47	CV0509AG-GS	Solid	03/26/2013 1245	03/28/2013 0937
680-88767-48	CV0509AH-GS	Solid	03/26/2013 1250	03/28/2013 0937
680-88767-49	CV0509AI-GS	Solid	03/26/2013 1325	03/28/2013 0937
680-88767-50	CV0509AJ-GS	Solid	03/26/2013 1330	03/28/2013 0937
680-88767-51	CV0509AK-GS	Solid	03/26/2013 1535	03/28/2013 0937
680-88767-52	CV0509AL-GS	Solid	03/26/2013 1537	03/28/2013 0937
680-88767-53	CV0509AM-GS	Solid	03/26/2013 1539	03/28/2013 0937
680-88767-54	CV0509AN-GS	Solid	03/26/2013 1540	03/28/2013 0937

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88767-3
Sdg Number: 68088767-3

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

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88767-3
Sdg Number: 68088767-3

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

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88767-3
Sdg Number: 68088767-3

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: 680-88767-3
Sdg Number: 68088767-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-136087					
LCS 660-136087/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136087/1-A	Method Blank	T	Solid	3546	
680-88767-41	CV0509DD-CS	T	Solid	3546	
680-88767-41MS	Matrix Spike	T	Solid	3546	
680-88767-41MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88767-42	CV0509EE-CS	T	Solid	3546	
680-88767-43	CV0509FF-CS	T	Solid	3546	
680-88767-44	CV0509GG-CS	T	Solid	3546	
680-88767-45	CV0509HH-CS	T	Solid	3546	
680-88767-46	CV0509HH-CSD	T	Solid	3546	
680-88767-47	CV0509AG-GS	T	Solid	3546	
680-88767-48	CV0509AH-GS	T	Solid	3546	
680-88767-49	CV0509AI-GS	T	Solid	3546	
680-88767-50	CV0509AJ-GS	T	Solid	3546	
Prep Batch: 660-136104					
LCS 660-136104/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136104/1-A	Method Blank	T	Solid	3546	
680-88767-51	CV0509AK-GS	T	Solid	3546	
680-88767-52	CV0509AL-GS	T	Solid	3546	
680-88767-53	CV0509AM-GS	T	Solid	3546	
680-88767-54	CV0509AN-GS	T	Solid	3546	
680-88811-A-1-B MS	Matrix Spike	T	Solid	3546	
680-88811-A-1-C MSD	Matrix Spike Duplicate	T	Solid	3546	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88767-3
Sdg Number: 68088767-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-136171					
LCS 660-136087/2-A	Lab Control Sample	T	Solid	8270C LL	660-136087
MB 660-136087/1-A	Method Blank	T	Solid	8270C LL	660-136087
LCS 660-136104/2-A	Lab Control Sample	T	Solid	8270C LL	660-136104
MB 660-136104/1-A	Method Blank	T	Solid	8270C LL	660-136104
680-88767-41	CV0509DD-CS	T	Solid	8270C LL	660-136087
680-88767-41MS	Matrix Spike	T	Solid	8270C LL	660-136087
680-88767-41MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136087
680-88767-42	CV0509EE-CS	T	Solid	8270C LL	660-136087
680-88767-43	CV0509FF-CS	T	Solid	8270C LL	660-136087
680-88767-44	CV0509GG-CS	T	Solid	8270C LL	660-136087
680-88767-45	CV0509HH-CS	T	Solid	8270C LL	660-136087
680-88767-46	CV0509HH-CSD	T	Solid	8270C LL	660-136087
680-88767-47	CV0509AG-GS	T	Solid	8270C LL	660-136087
680-88767-48	CV0509AH-GS	T	Solid	8270C LL	660-136087
680-88767-49	CV0509AI-GS	T	Solid	8270C LL	660-136087
680-88767-50	CV0509AJ-GS	T	Solid	8270C LL	660-136087
680-88767-51	CV0509AK-GS	T	Solid	8270C LL	660-136104
680-88767-52	CV0509AL-GS	T	Solid	8270C LL	660-136104
680-88767-53	CV0509AM-GS	T	Solid	8270C LL	660-136104
680-88767-54	CV0509AN-GS	T	Solid	8270C LL	660-136104
680-88811-A-1-B MS	Matrix Spike	T	Solid	8270C LL	660-136104
680-88811-A-1-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136104

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88767-3
Sdg Number: 68088767-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-135922					
680-88767-A-14 MS	Matrix Spike	T	Solid	Moisture	
680-88767-A-14 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88767-A-21 MS	Matrix Spike	T	Solid	Moisture	
680-88767-A-21 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88767-A-41 MSMS	Matrix Spike	T	Solid	Moisture	
680-88767-A-41 MSDMSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88767-41	CV0509DD-CS	T	Solid	Moisture	
680-88767-43	CV0509FF-CS	T	Solid	Moisture	
680-88767-44	CV0509GG-CS	T	Solid	Moisture	
680-88767-45	CV0509HH-CS	T	Solid	Moisture	
680-88767-46	CV0509HH-CSD	T	Solid	Moisture	
680-88767-47	CV0509AG-GS	T	Solid	Moisture	
680-88767-48	CV0509AH-GS	T	Solid	Moisture	
680-88767-49	CV0509AI-GS	T	Solid	Moisture	
680-88767-50	CV0509AJ-GS	T	Solid	Moisture	
680-88767-51	CV0509AK-GS	T	Solid	Moisture	
680-88767-52	CV0509AL-GS	T	Solid	Moisture	
680-88767-53	CV0509AM-GS	T	Solid	Moisture	
680-88767-54	CV0509AN-GS	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	
680-88767-42	CV0509EE-CS	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88767-3

SDG No.: 68088767-3

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:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Dibenz(a,h)anthracene	10.09	Baseline Event	cantins	04/02/

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

Date Analyzed: 04/02/13 13:44 Lab File ID: 1CD02006.D GC Column:

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

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

Date Analyzed: 04/02/13 14:02 Lab File ID: 1CD02007.D GC Column:

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

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

Date Analyzed: 04/02/13 14:20 Lab File ID: 1CD02008.D GC Column:

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

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

Date Analyzed: 04/02/13 14:39 Lab File ID: 1CD02009.D GC Column:

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

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

Date Analyzed: 04/02/13 14:57 Lab File ID: 1CD02010.D GC Column:

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

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

Date Analyzed: 04/02/13 15:15 Lab File ID: 1CD02011.D GC Column:

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

DB-5MS _____ ID: 250(um)

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DB-5MS _____ ID: 250(um)

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DB-5MS _____ ID: 250(um)

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DB-5MS _____ ID: 250(um)

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DB-5MS _____ ID: 250(um)

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DB-5MS _____ ID: 250(um)

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DB-5MS _____ ID: 250(um)

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GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88767-3

SDG No.: 68088767-3

Instrument ID: BSMC5973 Analysis Batch Number: 136048

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

Date Analyzed: 04/02/13 15:34 Lab File ID: 1CD02012.D GC Column:

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

DB-5MS _____ ID: 250(um)

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88767-3

SDG No.: 68088767-3

Instrument ID: BSMC5973 Analysis Batch Number: 136171

Lab Sample ID: CCVIS 660-136171/4 Client Sample ID:

Date Analyzed: 04/05/13 12:15 Lab File ID: 1CD05004.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/05/

Lab Sample ID: LCS 660-136087/2-A Client Sample ID:

Date Analyzed: 04/05/13 13:49 Lab File ID: 1CD05009.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	cantins	04/09/

Lab Sample ID: 680-88767-41 Client Sample ID: CV0509DD-CS

Date Analyzed: 04/05/13 17:15 Lab File ID: 1CD05020.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.49	Split Peak	cantins	04/09/
Benzo[k]fluoranthene	8.50	Baseline Event	cantins	04/09/
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	cantins	04/09/

Lab Sample ID: 680-88767-41 MS Client Sample ID: CV0509DD-CS MS

Date Analyzed: 04/05/13 17:33 Lab File ID: 1CD05021.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/09/

Lab Sample ID: 680-88767-41 MSD Client Sample ID: CV0509DD-CS MSD

Date Analyzed: 04/05/13 17:52 Lab File ID: 1CD05022.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/09/

Lab Sample ID: 680-88767-42 Client Sample ID: CV0509EE-CS

Date Analyzed: 04/05/13 18:10 Lab File ID: 1CD05023.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	cantins	04/09/

DB-5MS _____ ID: 250(um)

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DB-5MS _____ ID: 250(um)

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DB-5MS _____ ID: 250(um)

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DB-5MS _____ ID: 250(um)

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DB-5MS _____ ID: 250(um)

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DB-5MS _____ ID: 250(um)

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Lab Name: TestAmerica Tampa Job No.: 680-88767-3

SDG No.: 68088767-3

Instrument ID: BSMC5973 Analysis Batch Number: 136171

Lab Sample ID: 680-88767-43 Client Sample ID: CV0509FF-CS

Date Analyzed: 04/05/13 18:28 Lab File ID: 1CD05024.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.49	Split Peak	cantins	04/09/
Benzo[k]fluoranthene	8.50	Baseline Event	cantins	04/09/
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/09/
Benzo[g,h,i]perylene	10.29	Baseline Event	cantins	04/09/

Lab Sample ID: 680-88767-44 Client Sample ID: CV0509GG-CS

Date Analyzed: 04/05/13 18:47 Lab File ID: 1CD05025.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.49	Split Peak	cantins	04/09/
Benzo[k]fluoranthene	8.50	Baseline Event	cantins	04/09/
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/09/

Lab Sample ID: 680-88767-45 Client Sample ID: CV0509HH-CS

Date Analyzed: 04/05/13 19:05 Lab File ID: 1CD05026.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.49	Split Peak	cantins	04/09/
Benzo[k]fluoranthene	8.50	Baseline Event	cantins	04/09/
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/09/

Lab Sample ID: 680-88767-46 Client Sample ID: CV0509HH-CSD

Date Analyzed: 04/05/13 19:23 Lab File ID: 1CD05027.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[k]fluoranthene	8.50	Analyte Misidentified by the Data System	cantins	04/09/
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/09/
Benzo[g,h,i]perylene	10.30	Baseline Event	cantins	04/09/

Lab Sample ID: 680-88767-47 Client Sample ID: CV0509AG-GS

Date Analyzed: 04/05/13 19:42 Lab File ID: 1CD05028.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.49	Split Peak	cantins	04/09/
Benzo[k]fluoranthene	8.50	Baseline Event	cantins	04/09/
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/09/
Dibenz(a,h)anthracene	9.98	Baseline Event	cantins	04/09/
Benzo[g,h,i]perylene	10.30	Baseline Event	cantins	04/09/

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

DB-5MS _____ ID: 250(um)

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88767-3

SDG No.: 68088767-3

Instrument ID: BSMC5973 Analysis Batch Number: 136171

Lab Sample ID: 680-88767-48 Client Sample ID: CV0509AH-GS

Date Analyzed: 04/05/13 20:00 Lab File ID: 1CD05029.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/09/
Benzo[g,h,i]perylene	10.30	Baseline Event	cantins	04/09/

Lab Sample ID: 680-88767-49 Client Sample ID: CV0509AI-GS

Date Analyzed: 04/05/13 20:18 Lab File ID: 1CD05030.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[k]fluoranthene	8.50	Analyte Misidentified by the Data System	cantins	04/09/
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/09/
Dibenz(a,h)anthracene	9.98	Baseline Event	cantins	04/09/
Benzo[g,h,i]perylene	10.29	Baseline Event	cantins	04/09/

Lab Sample ID: 680-88767-50 Client Sample ID: CV0509AJ-GS

Date Analyzed: 04/05/13 20:37 Lab File ID: 1CD05031.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.49	Split Peak	cantins	04/09/
Benzo[k]fluoranthene	8.50	Baseline Event	cantins	04/09/
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/09/
Benzo[g,h,i]perylene	10.30	Baseline Event	cantins	04/09/

Lab Sample ID: LCS 660-136104/2-A Client Sample ID:

Date Analyzed: 04/05/13 21:13 Lab File ID: 1CD05033.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/09/

Lab Sample ID: 680-88767-51 Client Sample ID: CV0509AK-GS

Date Analyzed: 04/05/13 21:32 Lab File ID: 1CD05034.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.95	Baseline Event	cantins	04/09/

DB-5MS _____ ID: 250(um)

'

DB-5MS _____ ID: 250(um)

'

DB-5MS _____ ID: 250(um)

'

DB-5MS _____ ID: 250(um)

'

DB-5MS _____ ID: 250(um)

'

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88767-3

SDG No.: 68088767-3

Instrument ID: BSMC5973 Analysis Batch Number: 136171

Lab Sample ID: 680-88767-52 Client Sample ID: CV0509AL-GS

Date Analyzed: 04/05/13 21:50 Lab File ID: 1CD05035.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.48	Split Peak	cantins	04/09/
Benzo[k]fluoranthene	8.50	Baseline Event	cantins	04/09/
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/09/
Dibenz(a,h)anthracene	9.97	Baseline Event	cantins	04/09/

Lab Sample ID: 680-88767-53 Client Sample ID: CV0509AM-GS

Date Analyzed: 04/05/13 22:09 Lab File ID: 1CD05036.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	cantins	04/09/
Dibenz(a,h)anthracene	9.98	Baseline Event	cantins	04/09/

Lab Sample ID: 680-88767-54 Client Sample ID: CV0509AN-GS

Date Analyzed: 04/05/13 22:27 Lab File ID: 1CD05037.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.48	Split Peak	cantins	04/09/
Benzo[k]fluoranthene	8.50	Baseline Event	cantins	04/09/
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/09/
Dibenz(a,h)anthracene	9.97	Baseline Event	cantins	04/09/
Benzo[g,h,i]perylene	10.29	Baseline Event	cantins	04/09/

Lab Sample ID: 680-88811-A-1-B MS Client Sample ID:

Date Analyzed: 04/05/13 23:04 Lab File ID: 1CD05039.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	cantins	04/09/

Lab Sample ID: 680-88811-A-1-C MSD Client Sample ID:

Date Analyzed: 04/05/13 23:22 Lab File ID: 1CD05040.D GC Column:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/09/

DB-5MS _____ ID: 250(um)

'

DB-5MS _____ ID: 250(um)

'

DB-5MS _____ ID: 250(um)

'

DB-5MS _____ ID: 250(um)

'

DB-5MS _____ ID: 250(um)

'

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.: 680-88767-3

SDG No.: 68088767-3

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0509DD-CS	680-88767-41	68
CV0509EE-CS	680-88767-42	56
CV0509FF-CS	680-88767-43	63
CV0509GG-CS	680-88767-44	91
CV0509HH-CS	680-88767-45	61
CV0509HH-CSD	680-88767-46	55
CV0509AG-GS	680-88767-47	112
CV0509AH-GS	680-88767-48	84
CV0509AI-GS	680-88767-49	91
CV0509AJ-GS	680-88767-50	59
CV0509AK-GS	680-88767-51	56
CV0509AL-GS	680-88767-52	108
CV0509AM-GS	680-88767-53	58
CV0509AN-GS	680-88767-54	56
	MB 660-136087/1-A	69
	MB 660-136104/1-A	74
	LCS 660-136087/2-A	77
	LCS 660-136104/2-A	73
	680-88811-A-1-B MS	92
CV0509DD-CS MS	680-88767-41 MS	65
	680-88811-A-1-C MSD	78
CV0509DD-CS MSD	680-88767-41 MSD	65

	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.: 680-88767-3

SDG No.: 68088767-3

Matrix: Solid Level: Low Lab File ID: 1CD05009.D

Lab ID: LCS 660-136087/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	651	495	76	39-130	
Acenaphthylene	651	455	70	38-130	
Anthracene	651	452	69	37-130	
Benzo[a]anthracene	651	503	77	40-130	
Benzo[a]pyrene	651	454	70	49-130	
Benzo[b]fluoranthene	651	483	74	37-130	
Benzo[g,h,i]perylene	651	478	73	32-130	
Benzo[k]fluoranthene	651	523	80	32-130	
Chrysene	651	449	69	41-130	
Dibenz(a,h)anthracene	651	529	81	27-130	
Fluoranthene	651	534	82	40-130	
Fluorene	651	517	79	40-130	
Indeno[1,2,3-cd]pyrene	651	456	70	30-130	
1-Methylnaphthalene	651	530	81	31-130	
2-Methylnaphthalene	651	447	69	33-130	
Naphthalene	651	455	70	36-130	
Phenanthrene	651	461	71	42-130	
Pyrene	651	496	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.: 680-88767-3

SDG No.: 68088767-3

Matrix: Solid Level: Low Lab File ID: 1CD05033.D

Lab ID: LCS 660-136104/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	656	484	74	39-130	
Acenaphthylene	656	476	73	38-130	
Anthracene	656	465	71	37-130	
Benzo[a]anthracene	656	525	80	40-130	
Benzo[a]pyrene	656	461	70	49-130	
Benzo[b]fluoranthene	656	447	68	37-130	
Benzo[g,h,i]perylene	656	418	64	32-130	
Benzo[k]fluoranthene	656	532	81	32-130	
Chrysene	656	492	75	41-130	
Dibenz(a,h)anthracene	656	492	75	27-130	
Fluoranthene	656	478	73	40-130	
Fluorene	656	469	72	40-130	
Indeno[1,2,3-cd]pyrene	656	389	59	30-130	
1-Methylnaphthalene	656	518	79	31-130	
2-Methylnaphthalene	656	480	73	33-130	
Naphthalene	656	461	70	36-130	
Phenanthrene	656	490	75	42-130	
Pyrene	656	549	84	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88767-3

SDG No.: 68088767-3

Matrix: Solid Level: Low Lab File ID: 1CD05039.D

Lab ID: 680-88811-A-1-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	1120	670 U	792	71	39-130	
Acenaphthylene	1120	69 J	814	67	38-130	
Anthracene	1120	320	911	53	37-130	
Benzo[a]anthracene	1120	1200	1250	6	40-130	F
Benzo[a]pyrene	1120	860	1020	15	49-130	F
Benzo[b]fluoranthene	1120	1100	1200	5	37-130	F
Benzo[g,h,i]perylene	1120	620	964	31	32-130	F
Benzo[k]fluoranthene	1120	880	1150	24	32-130	F
Chrysene	1120	1000	1170	15	41-130	F
Dibenz(a,h)anthracene	1120	200	789	53	27-130	
Fluoranthene	1120	2200	1380	-77	40-130	F
Fluorene	1120	120 J	824	63	40-130	
Indeno[1,2,3-cd]pyrene	1120	520	884	32	30-130	
1-Methylnaphthalene	1120	160 J	966	73	31-130	
2-Methylnaphthalene	1120	230 J	998	69	33-130	
Naphthalene	1120	180 J	1040	77	36-130	
Phenanthrene	1120	1700	1170	-47	42-130	F
Pyrene	1120	1900	1380	-44	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88767-3

SDG No.: 68088767-3

Matrix: Solid Level: Low Lab File ID: 1CD05021.D

Lab ID: 680-88767-41 MS Client ID: CV0509DD-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	813	120 U	545	67	39-130	
Acenaphthylene	813	11 J	553	67	38-130	
Anthracene	813	23	579	68	37-130	
Benzo[a]anthracene	813	150	761	76	40-130	
Benzo[a]pyrene	813	120	715	73	49-130	
Benzo[b]fluoranthene	813	210	880	82	37-130	
Benzo[g,h,i]perylene	813	99	631	66	32-130	
Benzo[k]fluoranthene	813	79	677	73	32-130	
Chrysene	813	150	746	74	41-130	
Dibenz(a,h)anthracene	813	36	579	67	27-130	
Fluoranthene	813	210	944	91	40-130	
Fluorene	813	17 J	553	66	40-130	
Indeno[1,2,3-cd]pyrene	813	99	618	64	30-130	
1-Methylnaphthalene	813	31 J	626	73	31-130	
2-Methylnaphthalene	813	29 J	635	75	33-130	
Naphthalene	813	37 J	533	61	36-130	
Phenanthrene	813	110	834	88	42-130	
Pyrene	813	180	941	93	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.: 680-88767-3

SDG No.: 68088767-3

Matrix: Solid Level: Low Lab File ID: 1CD05040.D

Lab ID: 680-88811-A-1-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	1120	705	63	12	40	39-130	
Acenaphthylene	1120	766	62	6	40	38-130	
Anthracene	1120	721	36	23	40	37-130	F
Benzo[a]anthracene	1120	1120	-5	11	40	40-130	F
Benzo[a]pyrene	1120	911	5	11	40	49-130	F
Benzo[b]fluoranthene	1120	1250	9	4	40	37-130	F
Benzo[g,h,i]perylene	1120	869	22	10	40	32-130	F
Benzo[k]fluoranthene	1120	849	-3	30	40	32-130	F
Chrysene	1120	1010	1	14	40	41-130	F
Dibenz(a,h)anthracene	1120	759	50	4	40	27-130	
Fluoranthene	1120	1330	-82	4	40	40-130	F
Fluorene	1120	676	50	20	40	40-130	
Indeno[1,2,3-cd]pyrene	1120	771	22	14	40	30-130	F
1-Methylnaphthalene	1120	839	61	14	40	31-130	
2-Methylnaphthalene	1120	896	60	11	40	33-130	
Naphthalene	1120	765	52	31	40	36-130	
Phenanthrene	1120	1080	-54	7	40	42-130	F
Pyrene	1120	1270	-55	9	40	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88767-3

SDG No.: 68088767-3

Matrix: Solid Level: Low Lab File ID: 1CD05022.D

Lab ID: 680-88767-41 MSD Client ID: CV0509DD-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	813	467	57	16	40	39-130	
Acenaphthylene	813	554	67	0	40	38-130	
Anthracene	813	527	62	9	40	37-130	
Benzo[a]anthracene	813	766	76	1	40	40-130	
Benzo[a]pyrene	813	690	70	4	40	49-130	
Benzo[b]fluoranthene	813	881	82	0	40	37-130	
Benzo[g,h,i]perylene	813	661	69	5	40	32-130	
Benzo[k]fluoranthene	813	659	71	3	40	32-130	
Chrysene	813	772	77	3	40	41-130	
Dibenz(a,h)anthracene	813	598	69	3	40	27-130	
Fluoranthene	813	812	74	15	40	40-130	
Fluorene	813	569	68	3	40	40-130	
Indeno[1,2,3-cd]pyrene	813	615	63	1	40	30-130	
1-Methylnaphthalene	813	572	67	9	40	31-130	
2-Methylnaphthalene	813	511	59	22	40	33-130	
Naphthalene	813	494	56	8	40	36-130	
Phenanthrene	813	701	72	17	40	42-130	
Pyrene	813	866	84	8	40	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88767-3

SDG No.: 68088767-3

Lab File ID: 1CD05008.D Lab Sample ID: MB 660-136087/1-A

Matrix: Solid Date Extracted: 04/03/2013 15:12

Instrument ID: BSMC5973 Date Analyzed: 04/05/2013 13:31

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136087/2-A	1CD05009.D	04/05/2013 13:49
CV0509DD-CS	680-88767-41	1CD05020.D	04/05/2013 17:15
CV0509DD-CS MS	680-88767-41 MS	1CD05021.D	04/05/2013 17:33
CV0509DD-CS MSD	680-88767-41 MSD	1CD05022.D	04/05/2013 17:52
CV0509EE-CS	680-88767-42	1CD05023.D	04/05/2013 18:10
CV0509FF-CS	680-88767-43	1CD05024.D	04/05/2013 18:28
CV0509GG-CS	680-88767-44	1CD05025.D	04/05/2013 18:47
CV0509HH-CS	680-88767-45	1CD05026.D	04/05/2013 19:05
CV0509HH-CSD	680-88767-46	1CD05027.D	04/05/2013 19:23
CV0509AG-GS	680-88767-47	1CD05028.D	04/05/2013 19:42
CV0509AH-GS	680-88767-48	1CD05029.D	04/05/2013 20:00
CV0509AI-GS	680-88767-49	1CD05030.D	04/05/2013 20:18
CV0509AJ-GS	680-88767-50	1CD05031.D	04/05/2013 20:37

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88767-3

SDG No.: 68088767-3

Lab File ID: 1CD05032.D Lab Sample ID: MB 660-136104/1-A

Matrix: Solid Date Extracted: 04/04/2013 10:07

Instrument ID: BSMC5973 Date Analyzed: 04/05/2013 20:55

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136104/2-A	1CD05033.D	04/05/2013 21:13
CV0509AK-GS	680-88767-51	1CD05034.D	04/05/2013 21:32
CV0509AL-GS	680-88767-52	1CD05035.D	04/05/2013 21:50
CV0509AM-GS	680-88767-53	1CD05036.D	04/05/2013 22:09
CV0509AN-GS	680-88767-54	1CD05037.D	04/05/2013 22:27
	680-88811-A-1-B MS	1CD05039.D	04/05/2013 23:04
	680-88811-A-1-C MSD	1CD05040.D	04/05/2013 23:22

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

Lab Name: TestAmerica Tampa Job No.: 680-88767-3

SDG No.: 68088767-3

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.: 680-88767-3

SDG No.: 68088767-3

Lab File ID: 1CD05003.D DFTPP Injection Date: 04/05/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:57

Analysis Batch No.: 136171

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	41.6	
68	Less than 2.0 % of mass 69	0.8	(1.4)1
69	Mass 69 relative abundance	55.3	
70	Less than 2.0 % of mass 69	0.3	(0.6)1
127	10.0 - 80.0 % of mass 198	49.0	
197	Less than 2.0 % of mass 198	0.6	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.7	
275	10.0 - 60.0 % of mass 198	19.3	
365	Greater than 1.0 % of mass 198	3.0	
441	Present but less than mass 443	7.6	
442	Greater than 50.0 % of mass 198	55.6	
443	15.0 - 24.0 % of mass 442	11.7	(21.0)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 660-136171/4	1CD05004.D	04/05/2013	12:15
	MB 660-136087/1-A	1CD05008.D	04/05/2013	13:31
	LCS 660-136087/2-A	1CD05009.D	04/05/2013	13:49
CV0509DD-CS	680-88767-41	1CD05020.D	04/05/2013	17:15
CV0509DD-CS MS	680-88767-41 MS	1CD05021.D	04/05/2013	17:33
CV0509DD-CS MSD	680-88767-41 MSD	1CD05022.D	04/05/2013	17:52
CV0509EE-CS	680-88767-42	1CD05023.D	04/05/2013	18:10
CV0509FF-CS	680-88767-43	1CD05024.D	04/05/2013	18:28
CV0509GG-CS	680-88767-44	1CD05025.D	04/05/2013	18:47
CV0509HH-CS	680-88767-45	1CD05026.D	04/05/2013	19:05
CV0509HH-CSD	680-88767-46	1CD05027.D	04/05/2013	19:23
CV0509AG-GS	680-88767-47	1CD05028.D	04/05/2013	19:42
CV0509AH-GS	680-88767-48	1CD05029.D	04/05/2013	20:00
CV0509AI-GS	680-88767-49	1CD05030.D	04/05/2013	20:18
CV0509AJ-GS	680-88767-50	1CD05031.D	04/05/2013	20:37
	MB 660-136104/1-A	1CD05032.D	04/05/2013	20:55
	LCS 660-136104/2-A	1CD05033.D	04/05/2013	21:13
CV0509AK-GS	680-88767-51	1CD05034.D	04/05/2013	21:32
CV0509AL-GS	680-88767-52	1CD05035.D	04/05/2013	21:50
CV0509AM-GS	680-88767-53	1CD05036.D	04/05/2013	22:09
CV0509AN-GS	680-88767-54	1CD05037.D	04/05/2013	22:27
	680-88811-A-1-B MS	1CD05039.D	04/05/2013	23:04
	680-88811-A-1-C MSD	1CD05040.D	04/05/2013	23:22

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

Lab Name: TestAmerica Tampa Job No.: 680-88767-3

SDG No.: 68088767-3

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.: 680-88767-3

SDG No.: 68088767-3

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.: 680-88767-3

SDG No.: 68088767-3

Sample No.: CCVIS 660-136171/4 Date Analyzed: 04/05/2013 12:15

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

Lab File ID (Standard): 1CD05004.D Heated Purge: (Y/N) N

Calibration ID: 2859

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		392528	3.69	289150	4.78	539578	5.72
UPPER LIMIT		785056	4.19	578300	5.28	1079156	6.22
LOWER LIMIT		196264	3.19	144575	4.28	269789	5.22
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136087/1-A		440415	3.69	321595	4.77	634040	5.72
LCS 660-136087/2-A		405055	3.69	305607	4.78	623523	5.72
680-88767-41	CV0509DD-CS	550972	3.69	400483	4.78	789068	5.72
680-88767-41 MS	CV0509DD-CS MS	504308	3.69	381521	4.78	764467	5.72
680-88767-41 MSD	CV0509DD-CS MSD	592710	3.69	441877	4.78	870768	5.72
680-88767-42	CV0509EE-CS	566689	3.69	429432	4.78	844396	5.72
680-88767-43	CV0509FF-CS	591541	3.69	451167	4.78	830152	5.72
680-88767-44	CV0509GG-CS	551325	3.69	431997	4.78	789573	5.72
680-88767-45	CV0509HH-CS	575307	3.69	433741	4.78	817894	5.72
680-88767-46	CV0509HH-CSD	530012	3.69	397045	4.78	764764	5.72
680-88767-47	CV0509AG-GS	528671	3.69	401567	4.78	765652	5.72
680-88767-48	CV0509AH-GS	547229	3.69	411642	4.78	774679	5.72
680-88767-49	CV0509AI-GS	568471	3.69	419756	4.78	784902	5.72
680-88767-50	CV0509AJ-GS	555735	3.69	439870	4.78	845162	5.72
MB 660-136104/1-A		590353	3.69	446558	4.78	864942	5.72
LCS 660-136104/2-A		530869	3.69	398228	4.78	807075	5.72
680-88767-51	CV0509AK-GS	513412	3.69	392664	4.78	745221	5.72
680-88767-52	CV0509AL-GS	525066	3.69	404745	4.78	750740	5.72
680-88767-53	CV0509AM-GS	514001	3.69	389768	4.78	750148	5.72
680-88767-54	CV0509AN-GS	573844	3.69	439176	4.78	806616	5.72
680-88811-A-1-B MS		535106	3.69	419924	4.78	763930	5.72
680-88811-A-1-C MSD		614948	3.69	473107	4.78	888143	5.72

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.: 680-88767-3

SDG No.: 68088767-3

Sample No.: CCVIS 660-136171/4 Date Analyzed: 04/05/2013 12:15

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

Lab File ID (Standard): 1CD05004.D Heated Purge: (Y/N) N

Calibration ID: 2859

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		739705	7.66	746693	8.83		
UPPER LIMIT		1479410	8.16	1493386	9.33		
LOWER LIMIT		369853	7.16	373347	8.33		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136087/1-A		799526	7.66	849543	8.82		
LCS 660-136087/2-A		814038	7.66	828022	8.82		
680-88767-41	CV0509DD-CS	888882	7.66	844138	8.83		
680-88767-41 MS	CV0509DD-CS MS	870786	7.66	839205	8.83		
680-88767-41 MSD	CV0509DD-CS MSD	920152	7.66	845257	8.83		
680-88767-42	CV0509EE-CS	912350	7.66	873239	8.83		
680-88767-43	CV0509FF-CS	910203	7.66	867407	8.83		
680-88767-44	CV0509GG-CS	867109	7.66	825369	8.83		
680-88767-45	CV0509HH-CS	921566	7.66	879198	8.83		
680-88767-46	CV0509HH-CSD	834370	7.66	837237	8.83		
680-88767-47	CV0509AG-GS	822354	7.66	800517	8.83		
680-88767-48	CV0509AH-GS	802957	7.66	764958	8.83		
680-88767-49	CV0509AI-GS	887584	7.66	835959	8.83		
680-88767-50	CV0509AJ-GS	889836	7.66	833692	8.83		
MB 660-136104/1-A		885941	7.66	848008	8.83		
LCS 660-136104/2-A		890990	7.66	828383	8.82		
680-88767-51	CV0509AK-GS	810567	7.66	774263	8.82		
680-88767-52	CV0509AL-GS	809007	7.66	780062	8.82		
680-88767-53	CV0509AM-GS	841754	7.66	804949	8.83		
680-88767-54	CV0509AN-GS	886289	7.66	833376	8.82		
680-88811-A-1-B MS		852808	7.66	826433	8.82		
680-88811-A-1-C MSD		968869	7.66	918949	8.83		

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.: 680-88767-3

SDG No.: 68088767-3

Client Sample ID: CV0509DD-CS | Lab Sample ID: 680-88767-41

Matrix: Solid | Lab File ID: 1CD05020.D

Analysis Method: 8270C LL | Date Collected: 03/26/2013 14:58

Extract. Method: 3546 | Date Extracted: 04/03/2013 15:12

Sample wt/vol: 14.96(g) | Date Analyzed: 04/05/2013 17:15

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

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

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

Analysis Batch No.: 136171 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	11	J	49	6.1
120-12-7	Anthracene	23		10	5.1
56-55-3	Benzo[a]anthracene	150		9.8	4.8
50-32-8	Benzo[a]pyrene	120		13	6.3
205-99-2	Benzo[b]fluoranthene	210		15	7.4
191-24-2	Benzo[g,h,i]perylene	99		24	5.4
207-08-9	Benzo[k]fluoranthene	79		9.8	4.4
218-01-9	Chrysene	150		11	5.5
53-70-3	Dibenz(a,h)anthracene	36		24	5.0
206-44-0	Fluoranthene	210		24	4.9
86-73-7	Fluorene	17	J	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	99		24	8.7
90-12-0	1-Methylnaphthalene	31	J	49	5.4
91-57-6	2-Methylnaphthalene	29	J	49	8.7
91-20-3	Naphthalene	37	J	49	5.4
85-01-8	Phenanthrene	110		9.8	4.8
129-00-0	Pyrene	180		24	4.5

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05020.D
Lab Smp Id: 680-88767-A-41-A Client Smp ID: CV0509DD-CS
Inj Date : 05-APR-2013 17:15
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88767-a-41-a
Misc Info : 680-88767-A-41-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m
Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	17.789	% 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	3.692	3.692	(1.000)	550972	40.0000	
* 6 Acenaphthene-d10	164	4.780	4.780	(1.000)	400483	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	789068	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	77898	6.77360	550.7566
* 18 Chrysene-d12	240	7.656	7.662	(1.000)	888882	40.0000	
* 23 Perylene-d12	264	8.827	8.827	(1.000)	844138	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	6412	0.45309	36.8407
3 2-Methylnaphthalene	142	4.133	4.133	(1.119)	3411	0.35409	28.7905(Q)
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	3300	0.38071	30.9552
5 Acenaphthylene	152	4.692	4.692	(0.982)	2292	0.13828	11.2434
9 Fluorene	166	5.115	5.116	(1.070)	2884	0.21073	17.1344
11 Phenanthrene	178	5.739	5.739	(1.003)	32493	1.41389	114.9621
12 Anthracene	178	5.768	5.774	(1.008)	6538	0.28065	22.8190
13 Carbazole	167	5.880	5.880	(1.028)	3505	0.17561	14.2787(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.568	6.574	(1.148)	64719	2.55000	207.3387
16 Pyrene	202	6.739	6.739	(0.880)	55036	2.23517	181.7401
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	43090	1.80868	147.0626
19 Chrysene	228	7.674	7.680	(1.002)	45591	1.79993	146.3513
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	62535	2.62042	213.0644(M)
21 Benzo(k)fluoranthene	252	8.503	8.509	(0.963)	22547	0.97685	79.4271(QM)
22 Benzo(a)pyrene	252	8.768	8.774	(0.993)	33384	1.48586	120.8137
24 Indeno(1,2,3-cd)pyrene	276	9.950	9.962	(1.127)	25892	1.21330	98.6522(M)
25 Dibenzo(a,h)anthracene	278	9.968	9.980	(1.129)	8773	0.44503	36.1849
26 Benzo(g,h,i)perylene	276	10.297	10.303	(1.167)	26394	1.21183	98.5332

QC Flag Legend

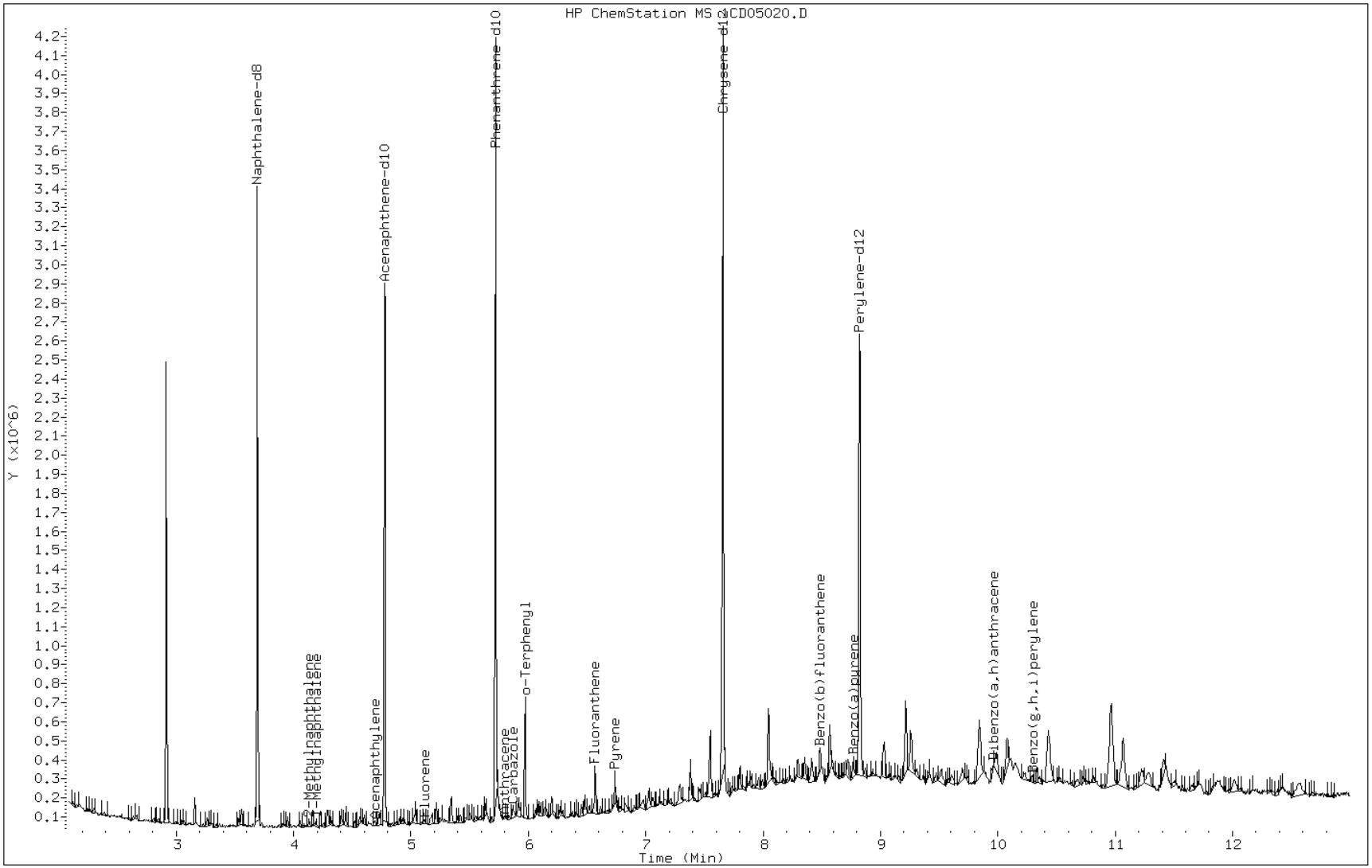
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD05020.D

Date: 05-APR-2013 17:15

Client ID: CV0509DD-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-41-a Operator: SCC



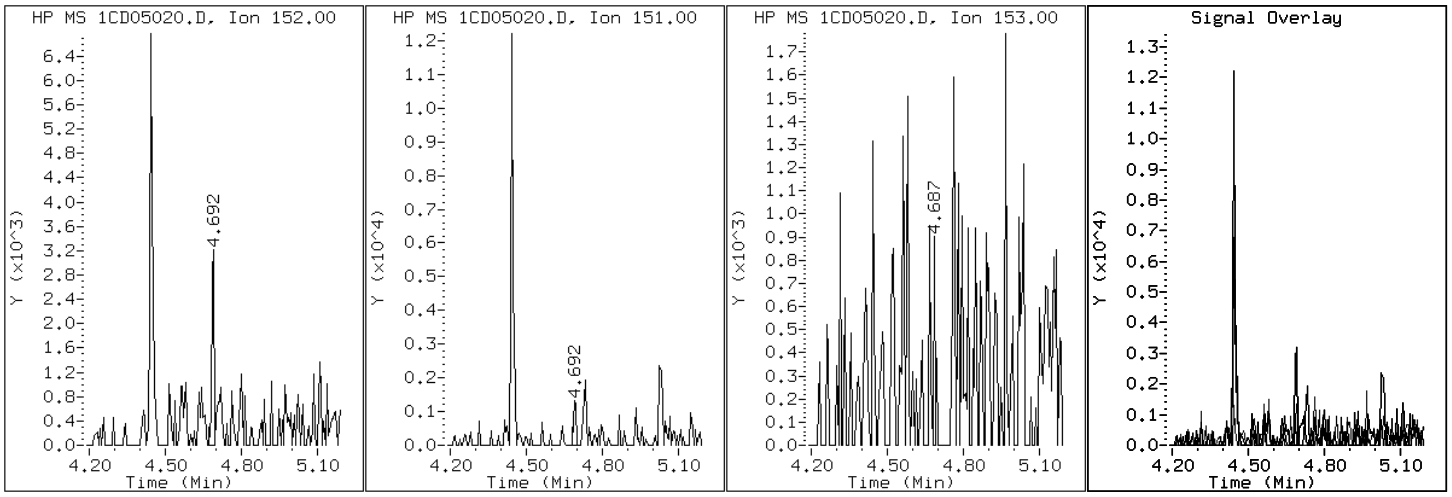
Data File: 1CD05020.D

Date: 05-APR-2013 17:15

Client ID: CV0509DD-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-41-a Operator: SCC

5 Acenaphthylene



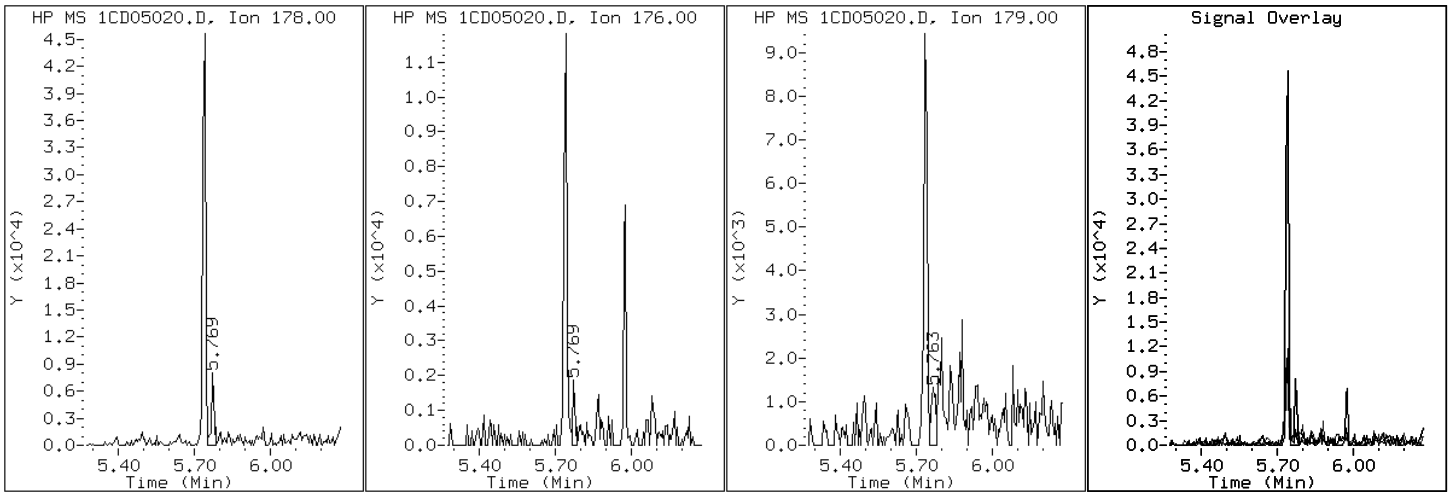
Data File: 1CD05020.D

Date: 05-APR-2013 17:15

Client ID: CV0509DD-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-41-a Operator: SCC

12 Anthracene



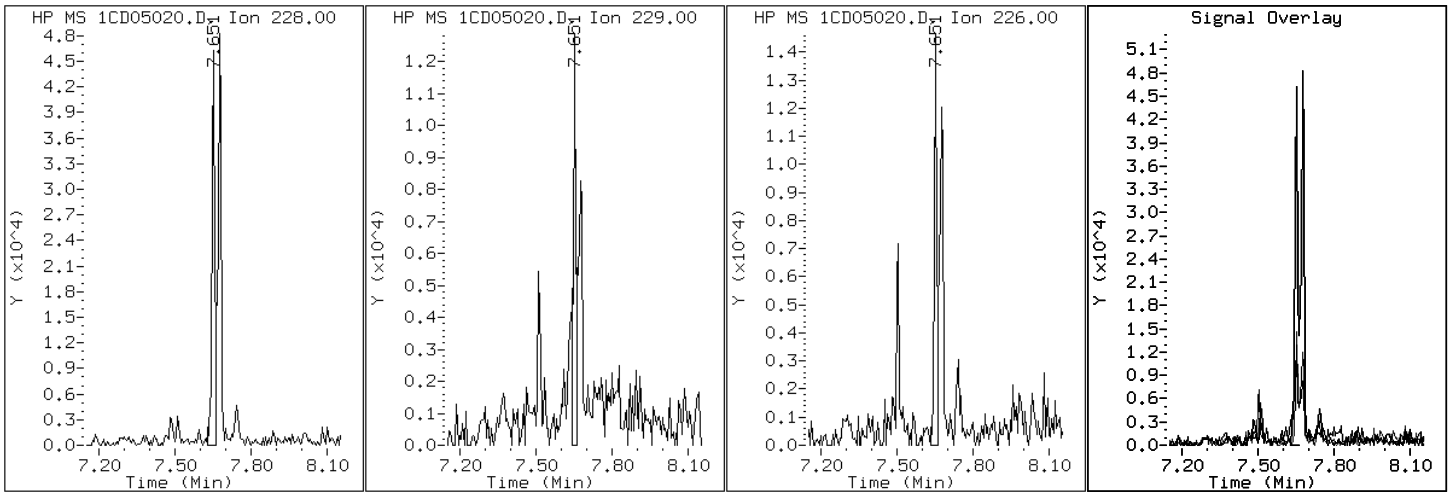
Data File: 1CD05020.D

Date: 05-APR-2013 17:15

Client ID: CV0509DD-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-41-a Operator: SCC

17 Benzo(a)anthracene



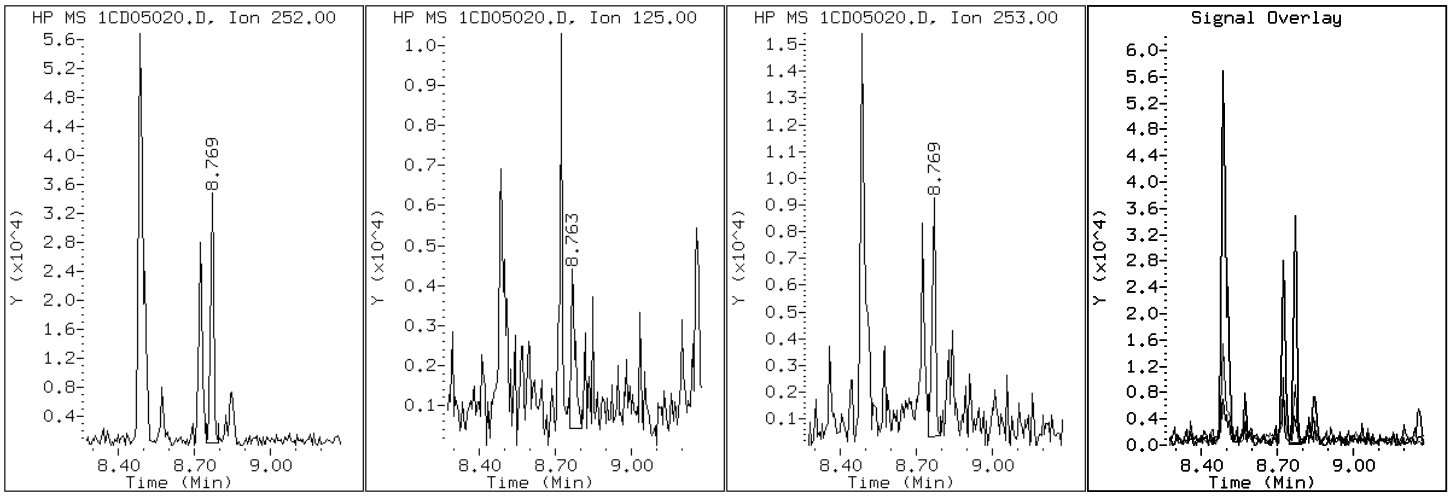
Data File: 1CD05020.D

Date: 05-APR-2013 17:15

Client ID: CV0509DD-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-41-a Operator: SCC

22 Benzo(a)pyrene



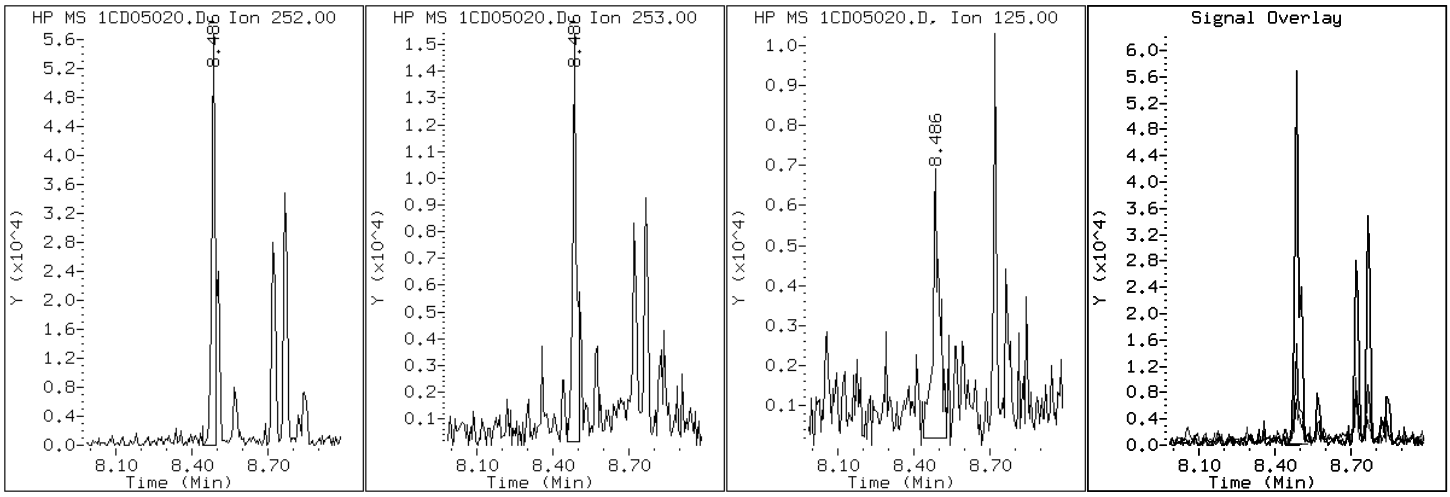
Data File: 1CD05020.D

Date: 05-APR-2013 17:15

Client ID: CV0509DD-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-41-a Operator: SCC

20 Benzo(b)fluoranthene



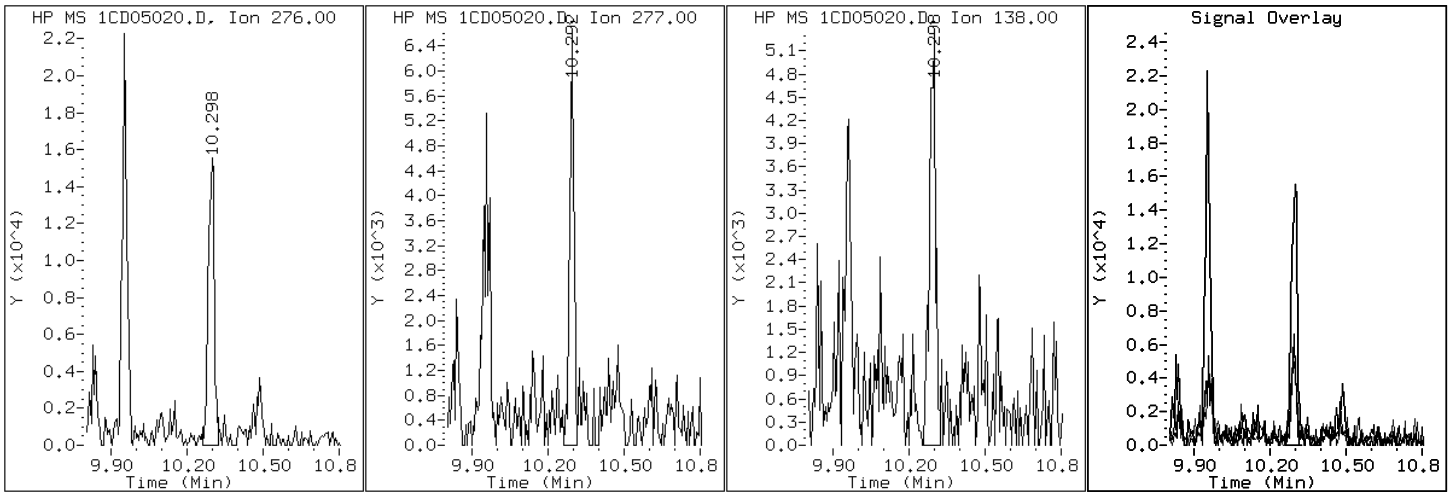
Data File: 1CD05020.D

Date: 05-APR-2013 17:15

Client ID: CV0509DD-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-41-a Operator: SCC

26 Benzo(g,h,i)perylene



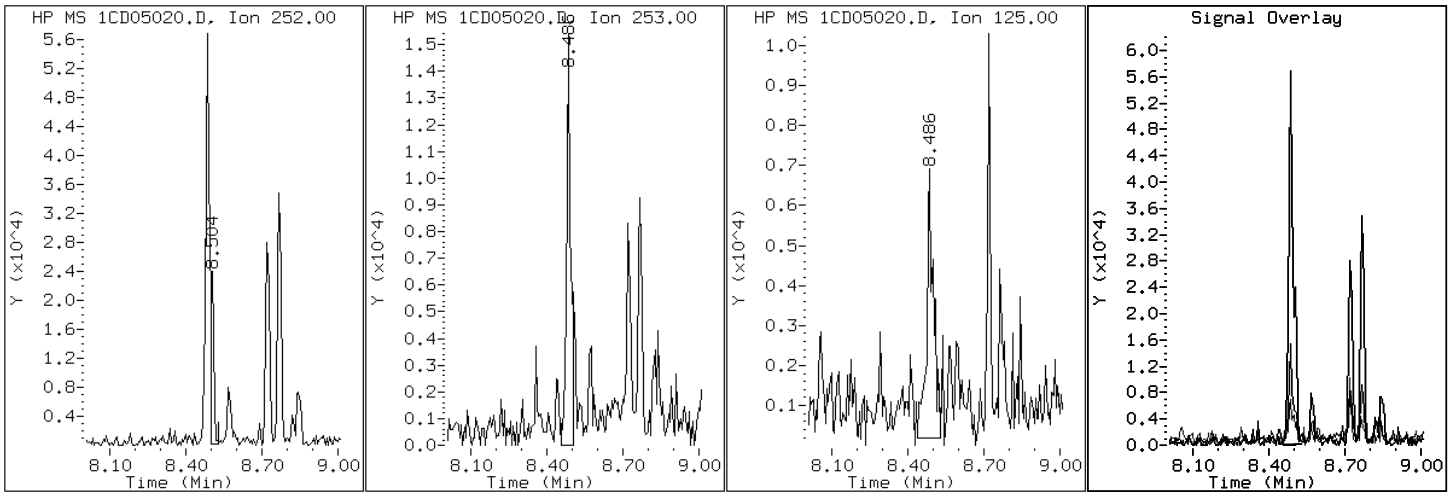
Data File: 1CD05020.D

Date: 05-APR-2013 17:15

Client ID: CV0509DD-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-41-a Operator: SCC

21 Benzo(k)fluoranthene



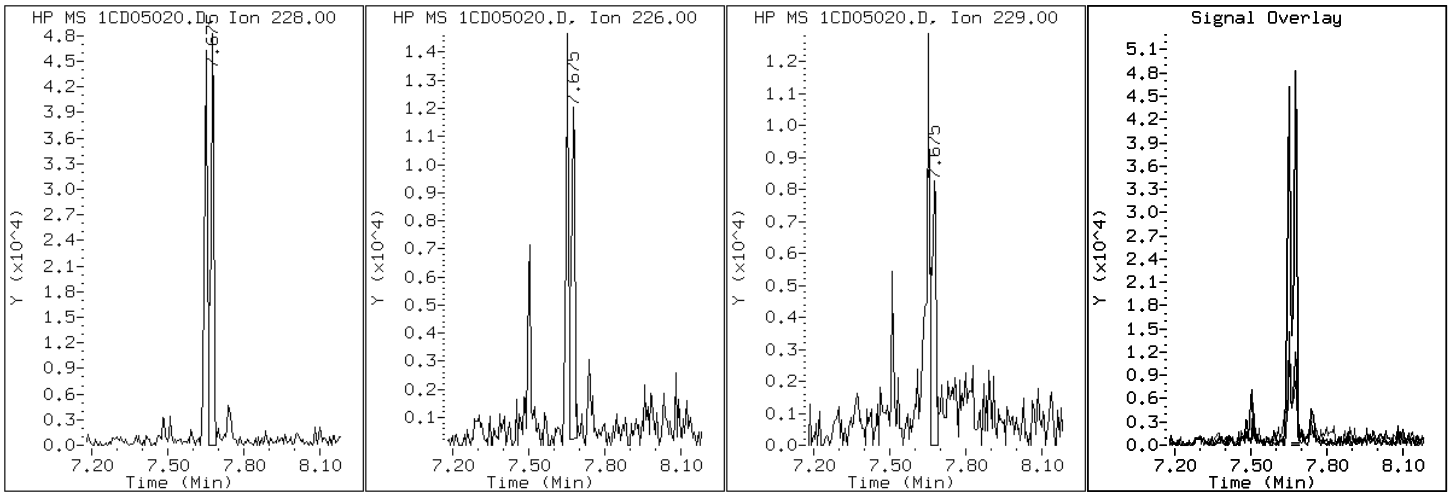
Data File: 1CD05020.D

Date: 05-APR-2013 17:15

Client ID: CV0509DD-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-41-a Operator: SCC

19 Chrysene



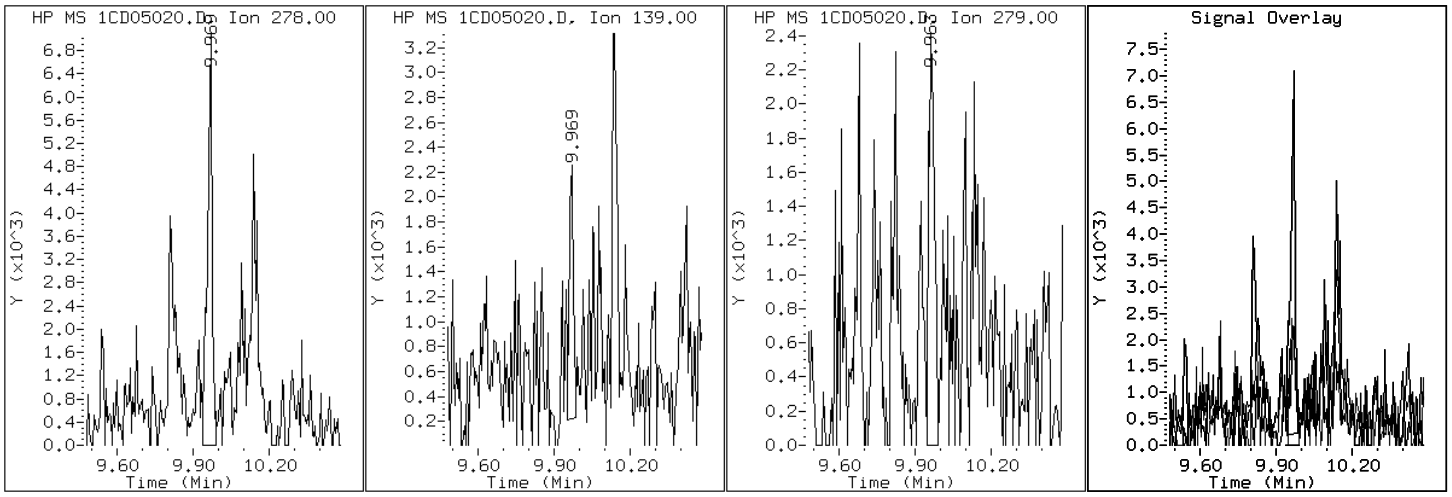
Data File: 1CD05020.D

Date: 05-APR-2013 17:15

Client ID: CV0509DD-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-41-a Operator: SCC

25 Dibenzo(a,h)anthracene



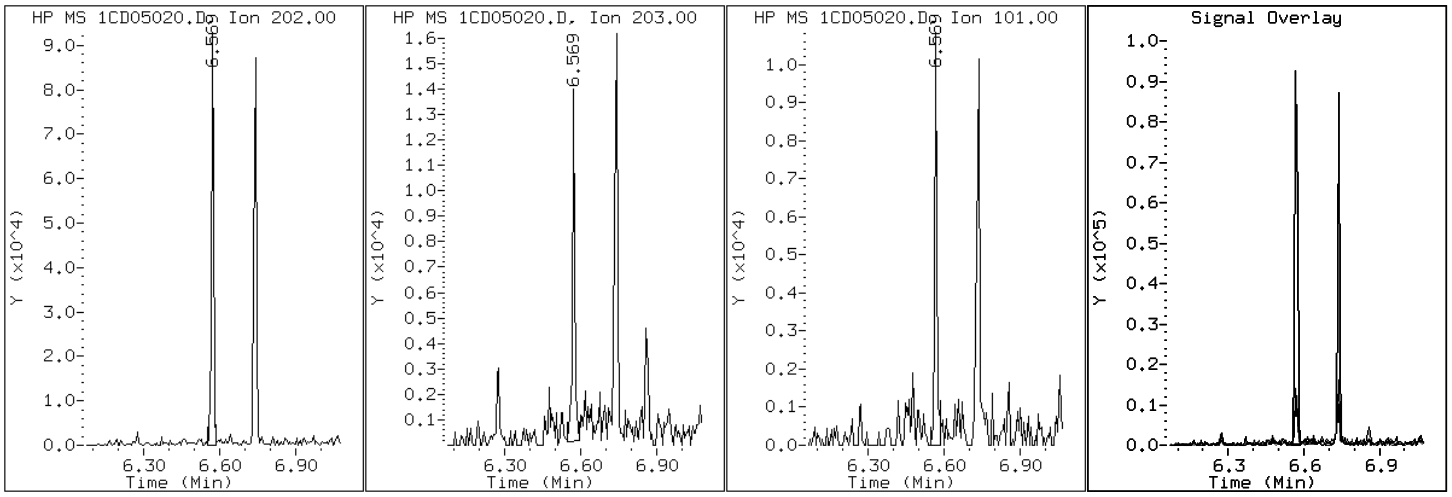
Data File: 1CD05020.D

Date: 05-APR-2013 17:15

Client ID: CV0509DD-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-41-a Operator: SCC

15 Fluoranthene



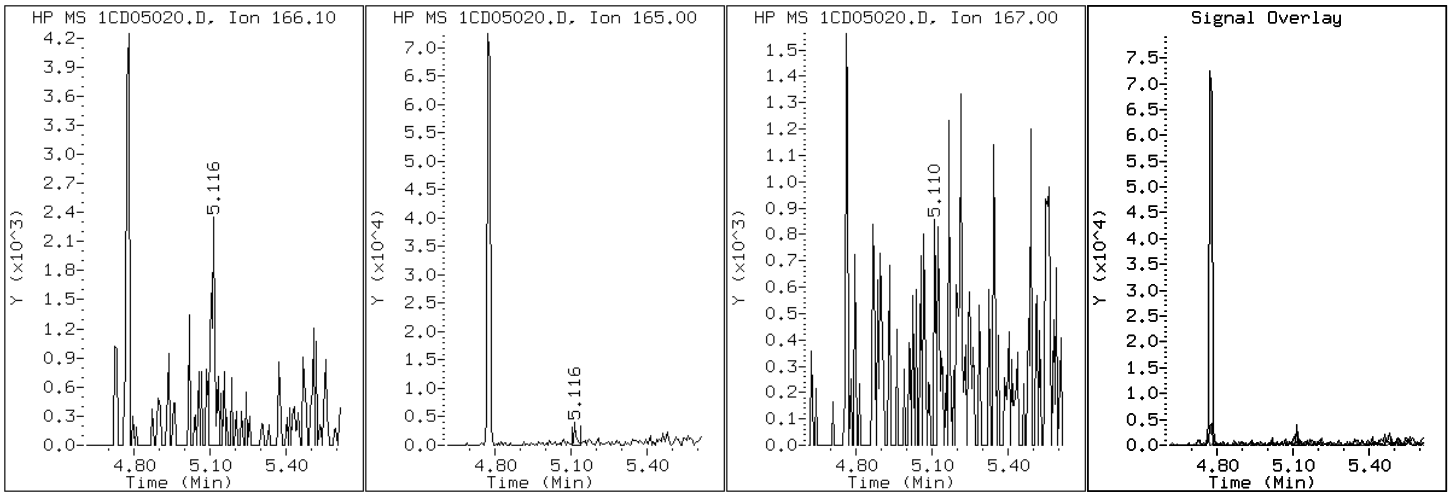
Data File: 1CD05020.D

Date: 05-APR-2013 17:15

Client ID: CV0509DD-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-41-a Operator: SCC

9 Fluorene



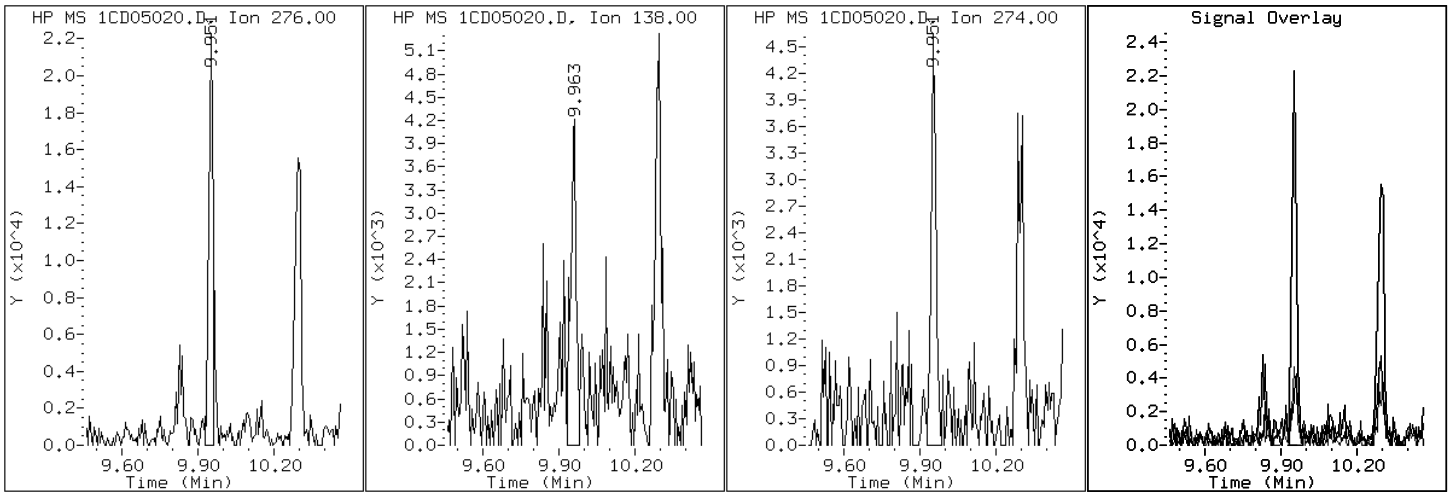
Data File: 1CD05020.D

Date: 05-APR-2013 17:15

Client ID: CV0509DD-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-41-a Operator: SCC

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



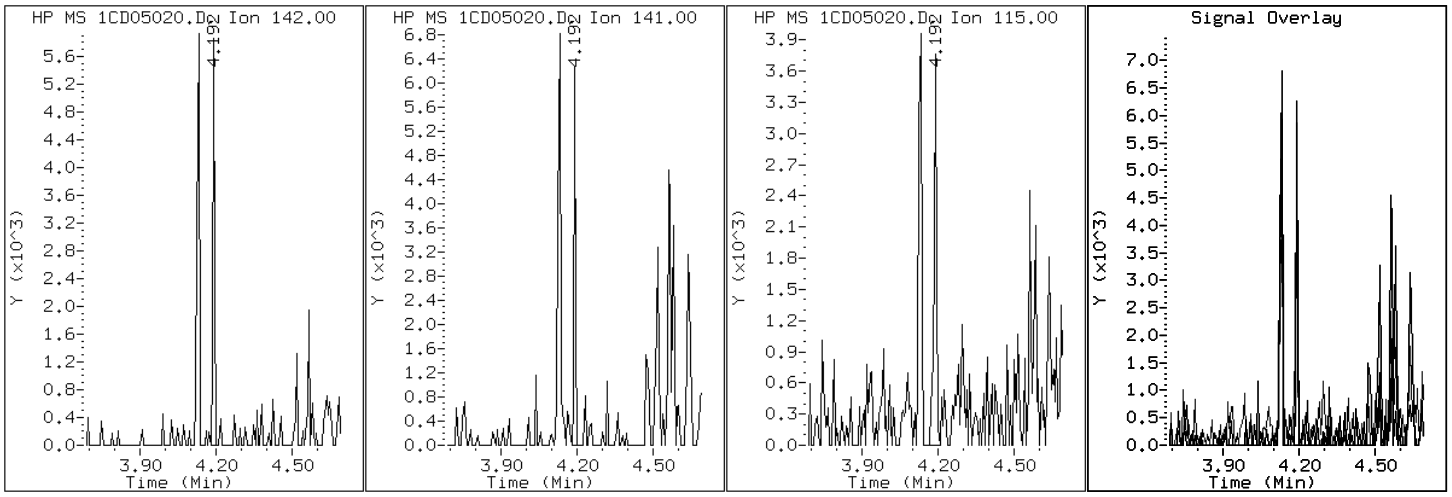
Data File: 1CD05020.D

Date: 05-APR-2013 17:15

Client ID: CV0509DD-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-41-a Operator: SCC

4 1-Methylnaphthalene



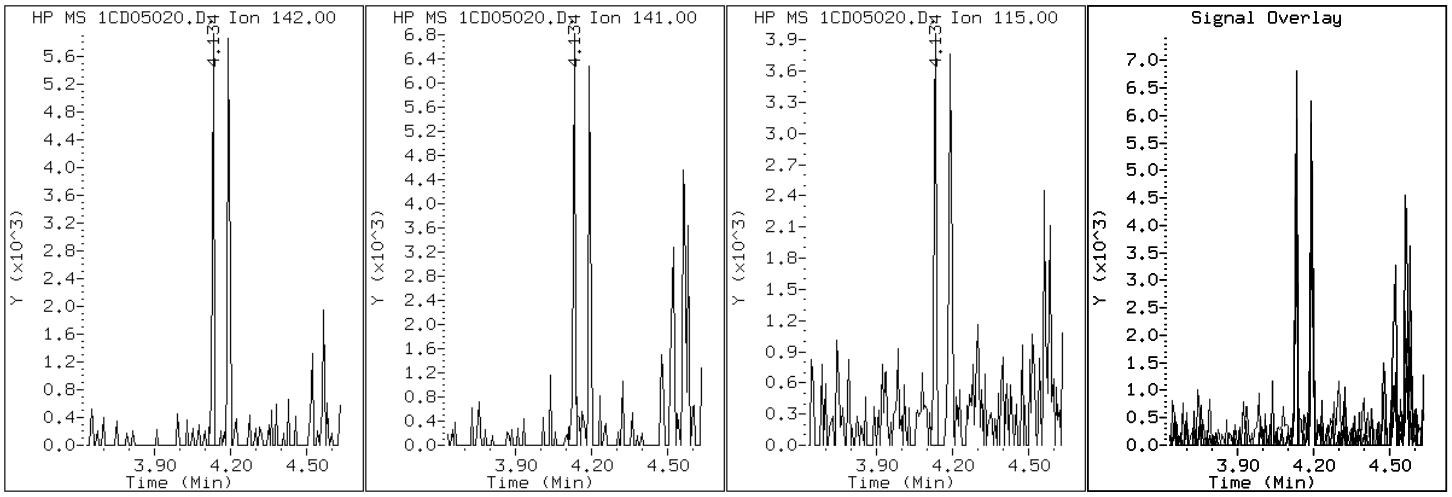
Data File: 1CD05020.D

Date: 05-APR-2013 17:15

Client ID: CV0509DD-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-41-a Operator: SCC

3 2-Methylnaphthalene



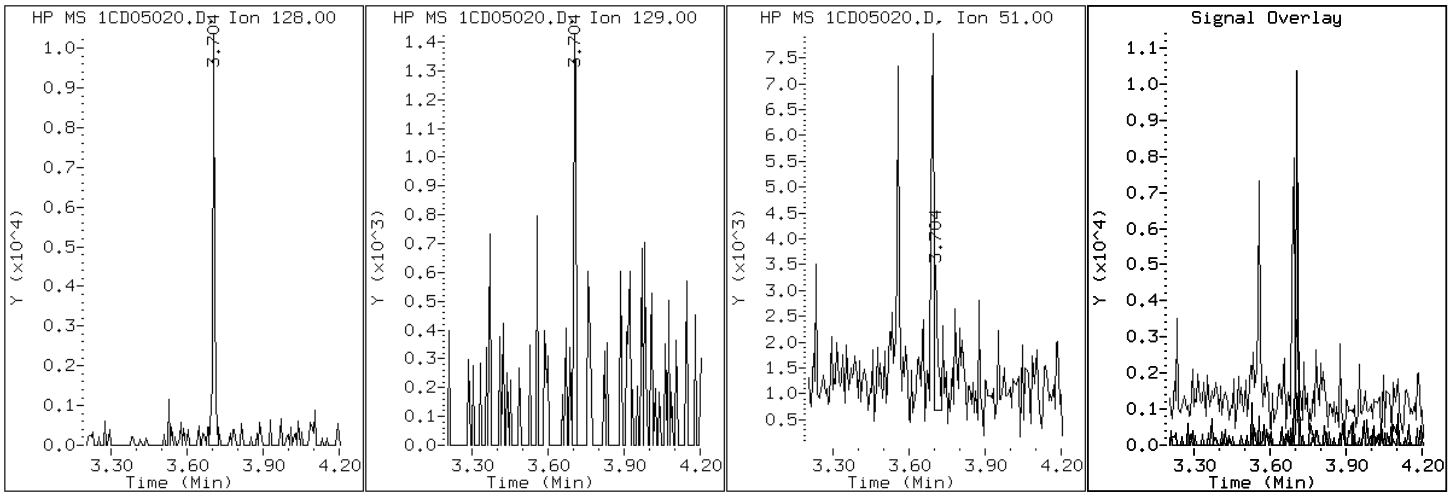
Data File: 1CD05020.D

Date: 05-APR-2013 17:15

Client ID: CV0509DD-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-41-a Operator: SCC

2 Naphthalene



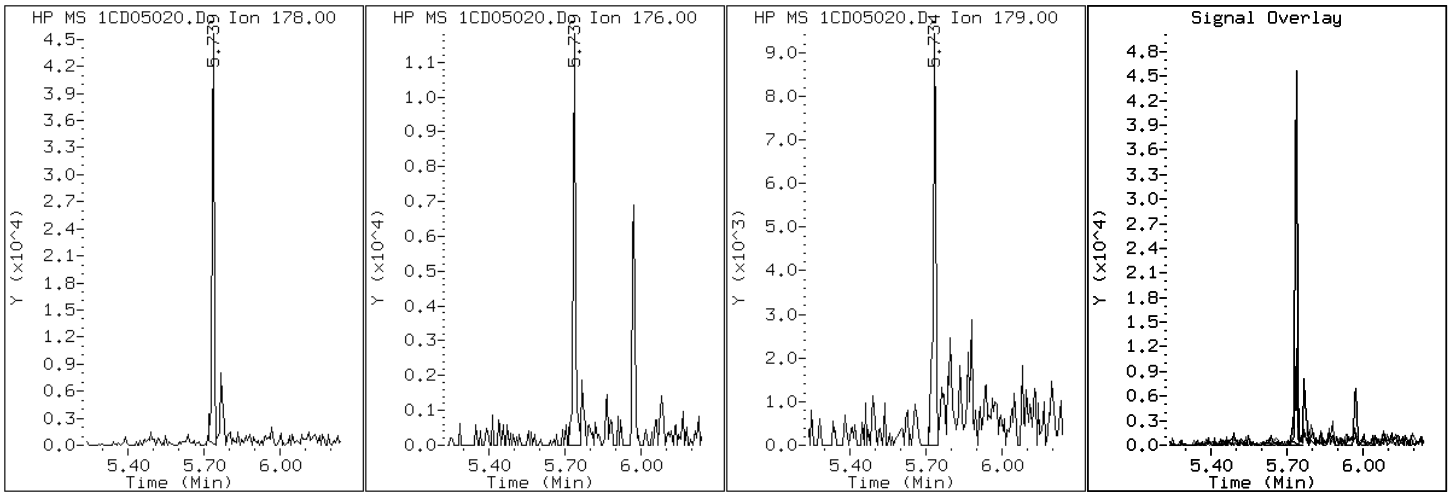
Data File: 1CD05020.D

Date: 05-APR-2013 17:15

Client ID: CV0509DD-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-41-a Operator: SCC

11 Phenanthrene



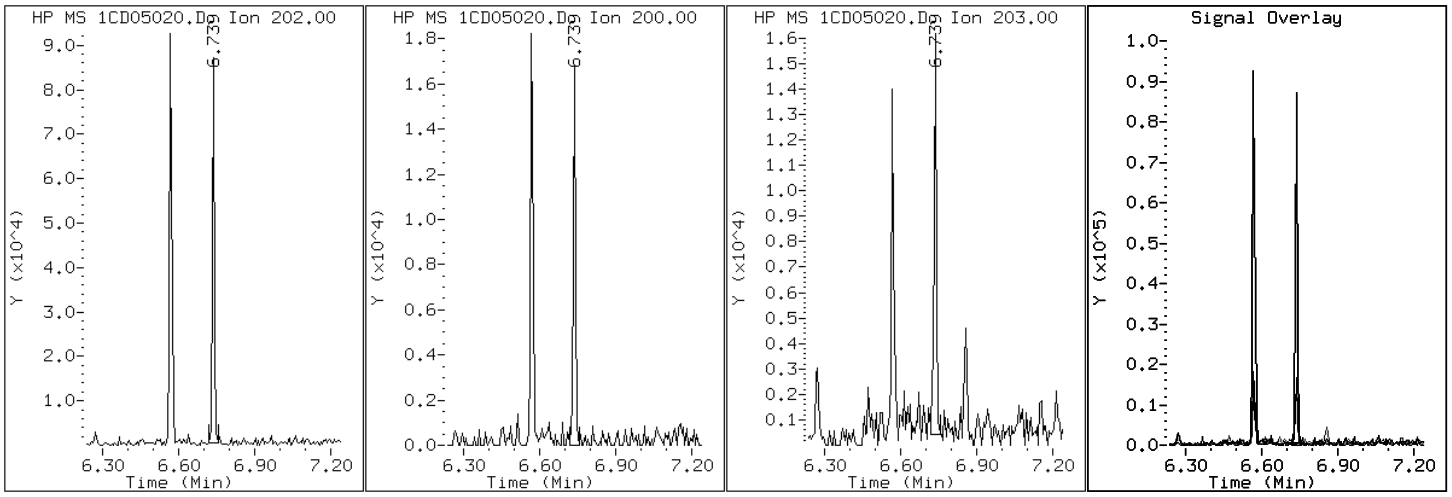
Data File: 1CD05020.D

Date: 05-APR-2013 17:15

Client ID: CV0509DD-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-41-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD05020.D
Inj. Date and Time: 05-APR-2013 17:15
Instrument ID: BSMC5973.i
Client ID: CV0509DD-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/09/2013

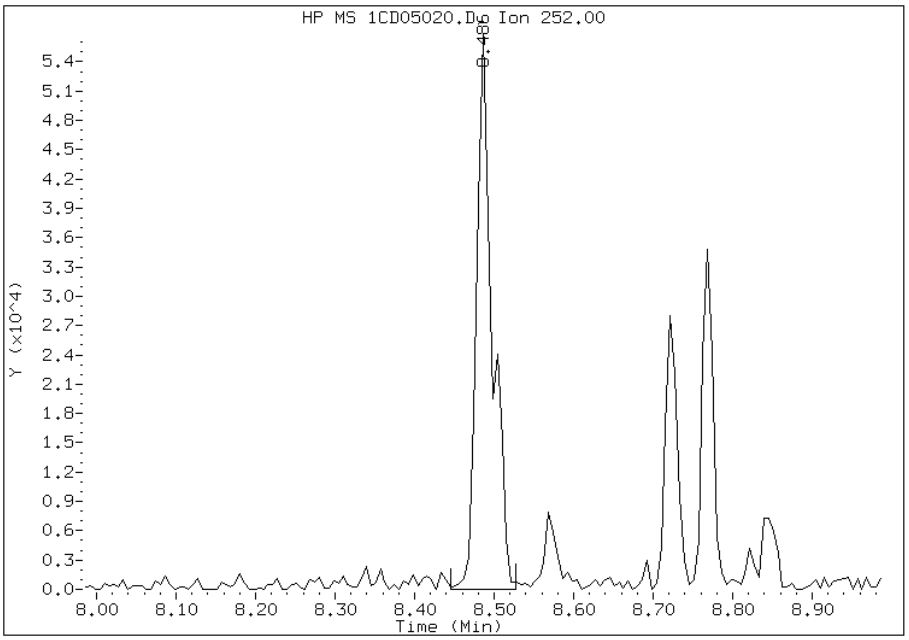
Processing Integration Results

RT: 8.49

Response: 78714

Amount: 3

Conc: 268



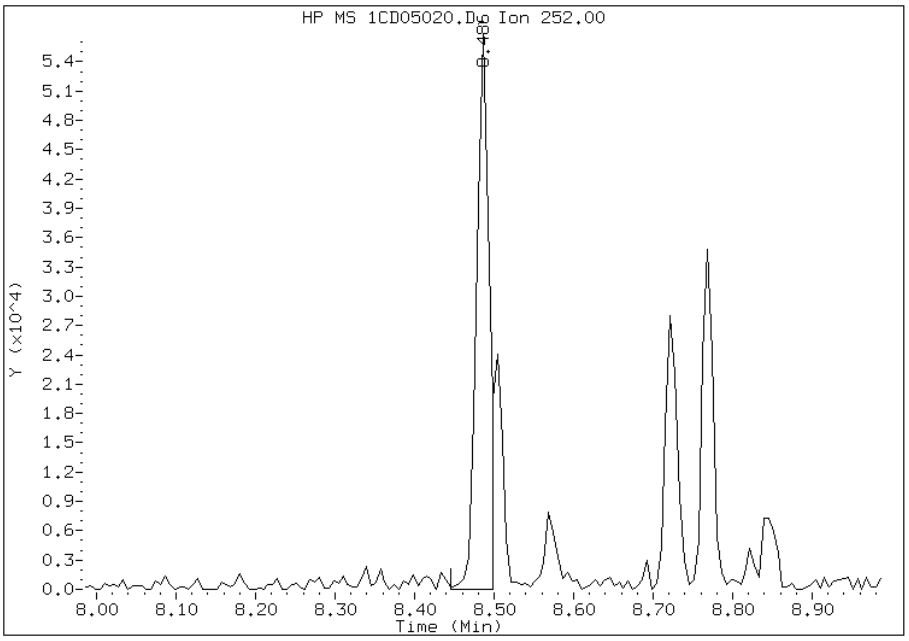
Manual Integration Results

RT: 8.49

Response: 62535

Amount: 3

Conc: 213



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:12
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD05020.D
Inj. Date and Time: 05-APR-2013 17:15
Instrument ID: BSMC5973.i
Client ID: CV0509DD-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/09/2013

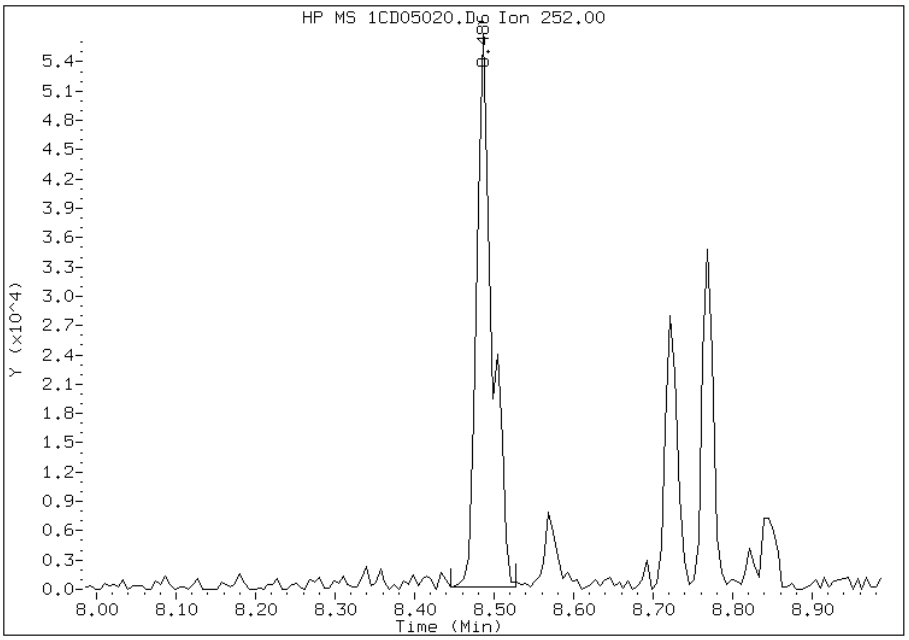
Processing Integration Results

RT: 8.49

Response: 77596

Amount: 3

Conc: 273



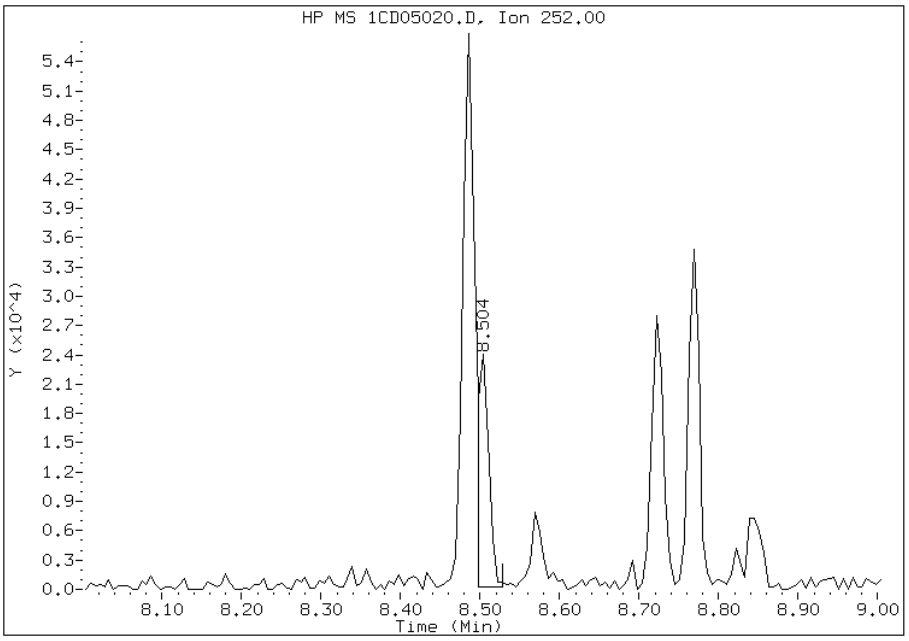
Manual Integration Results

RT: 8.50

Response: 22547

Amount: 1

Conc: 79



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD05020.D
Inj. Date and Time: 05-APR-2013 17:15
Instrument ID: BSMC5973.i
Client ID: CV0509DD-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

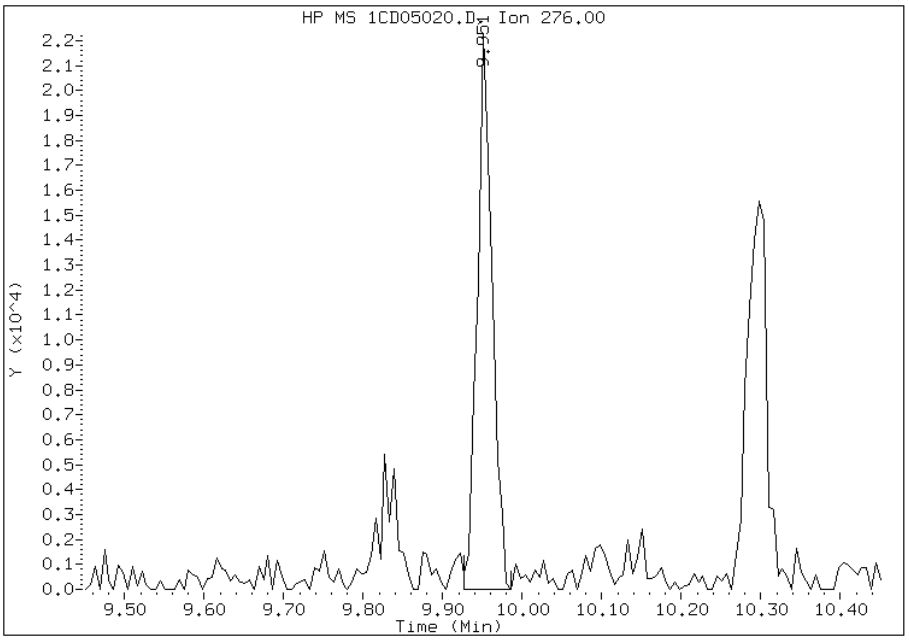
Processing Integration Results

RT: 9.95

Response: 28865

Amount: 1

Conc: 110



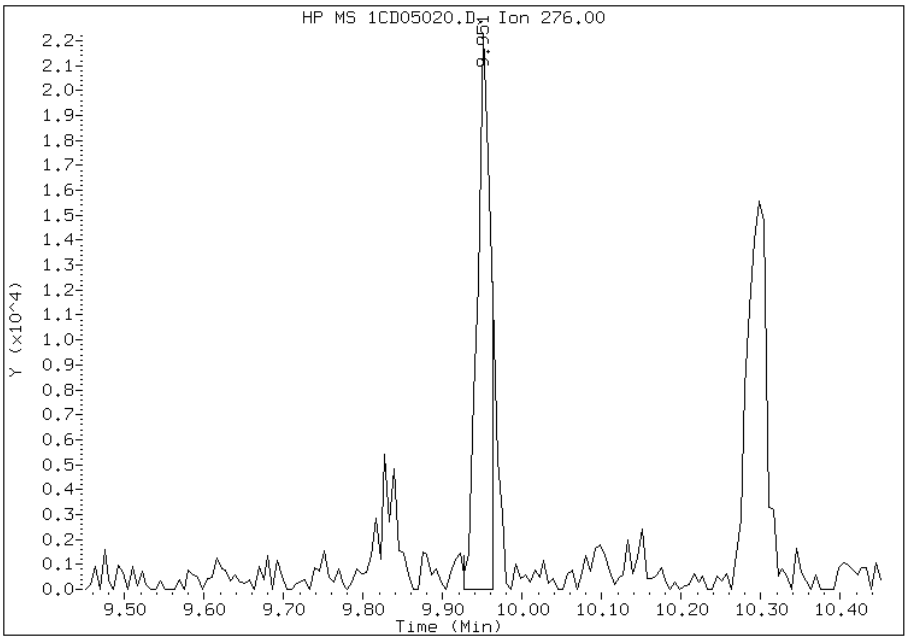
Manual Integration Results

RT: 9.95

Response: 25892

Amount: 1

Conc: 99



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:13
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88767-3

SDG No.: 68088767-3

Client Sample ID: CV0509EE-CS | Lab Sample ID: 680-88767-42

Matrix: Solid | Lab File ID: 1CD05023.D

Analysis Method: 8270C LL | Date Collected: 03/26/2013 15:10

Extract. Method: 3546 | Date Extracted: 04/03/2013 15:12

Sample wt/vol: 15.22(g) | Date Analyzed: 04/05/2013 18:10

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

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

% Moisture: 34.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136171 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	30
208-96-8	Acenaphthylene	9.2	J	60	7.5
120-12-7	Anthracene	23		13	6.3
56-55-3	Benzo[a]anthracene	92		12	5.9
50-32-8	Benzo[a]pyrene	61		16	7.8
205-99-2	Benzo[b]fluoranthene	78		18	9.2
191-24-2	Benzo[g,h,i]perylene	45		30	6.6
207-08-9	Benzo[k]fluoranthene	65		12	5.4
218-01-9	Chrysene	89		14	6.8
53-70-3	Dibenz(a,h)anthracene	15	J	30	6.2
206-44-0	Fluoranthene	150		30	6.0
86-73-7	Fluorene	15	J	30	6.2
193-39-5	Indeno[1,2,3-cd]pyrene	38		30	11
90-12-0	1-Methylnaphthalene	18	J	60	6.6
91-57-6	2-Methylnaphthalene	33	J	60	11
91-20-3	Naphthalene	40	J	60	6.6
85-01-8	Phenanthrene	160		12	5.9
129-00-0	Pyrene	130		30	5.6

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\1C040513.b\1CD05023.D
Lab Smp Id: 680-88767-A-42-A Client Smp ID: CV0509EE-CS
Inj Date : 05-APR-2013 18:10
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88767-a-42-a
Misc Info : 680-88767-A-42-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m
Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.220	Weight Extracted
M	34.331	% 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	3.692	3.692	(1.000)	566689	40.0000	
* 6 Acenaphthene-d10	164	4.780	4.780	(1.000)	429432	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	844396	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	67254	5.60502	560.7883
* 18 Chrysene-d12	240	7.656	7.662	(1.000)	912350	40.0000	
* 23 Perylene-d12	264	8.827	8.827	(1.000)	873239	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	5831	0.40061	40.0815
3 2-Methylnaphthalene	142	4.133	4.133	(1.119)	3227	0.32570	32.5862(Q)
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	1648	0.18485	18.4945(Q)
5 Acenaphthylene	152	4.692	4.692	(0.982)	1626	0.09149	9.1533
9 Fluorene	166	5.115	5.116	(1.070)	2265	0.15435	15.4423
11 Phenanthrene	178	5.739	5.739	(1.003)	38907	1.58205	158.2860
12 Anthracene	178	5.774	5.774	(1.009)	5647	0.22652	22.6631
13 Carbazole	167	5.880	5.880	(1.028)	3782	0.17707	17.7162(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.568	6.574	(1.148)	40497	1.49108	149.1837
16 Pyrene	202	6.739	6.739	(0.880)	33294	1.31738	131.8057
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	20682	0.91799	91.8460
19 Chrysene	228	7.674	7.680	(1.002)	23222	0.89322	89.3679
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	19162	0.77619	77.6587
21 Benzo(k)fluoranthene	252	8.503	8.509	(0.963)	15542	0.65092	65.1252
22 Benzo(a)pyrene	252	8.768	8.774	(0.993)	14140	0.60837	60.8680
24 Indeno(1,2,3-cd)pyrene	276	9.950	9.962	(1.127)	8383	0.37974	37.9929(M)
25 Dibenzo(a,h)anthracene	278	9.962	9.980	(1.129)	3124	0.15319	15.3268
26 Benzo(g,h,i)perylene	276	10.297	10.303	(1.167)	10032	0.44525	44.5478

QC Flag Legend

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

Data File: 1CD05023.D

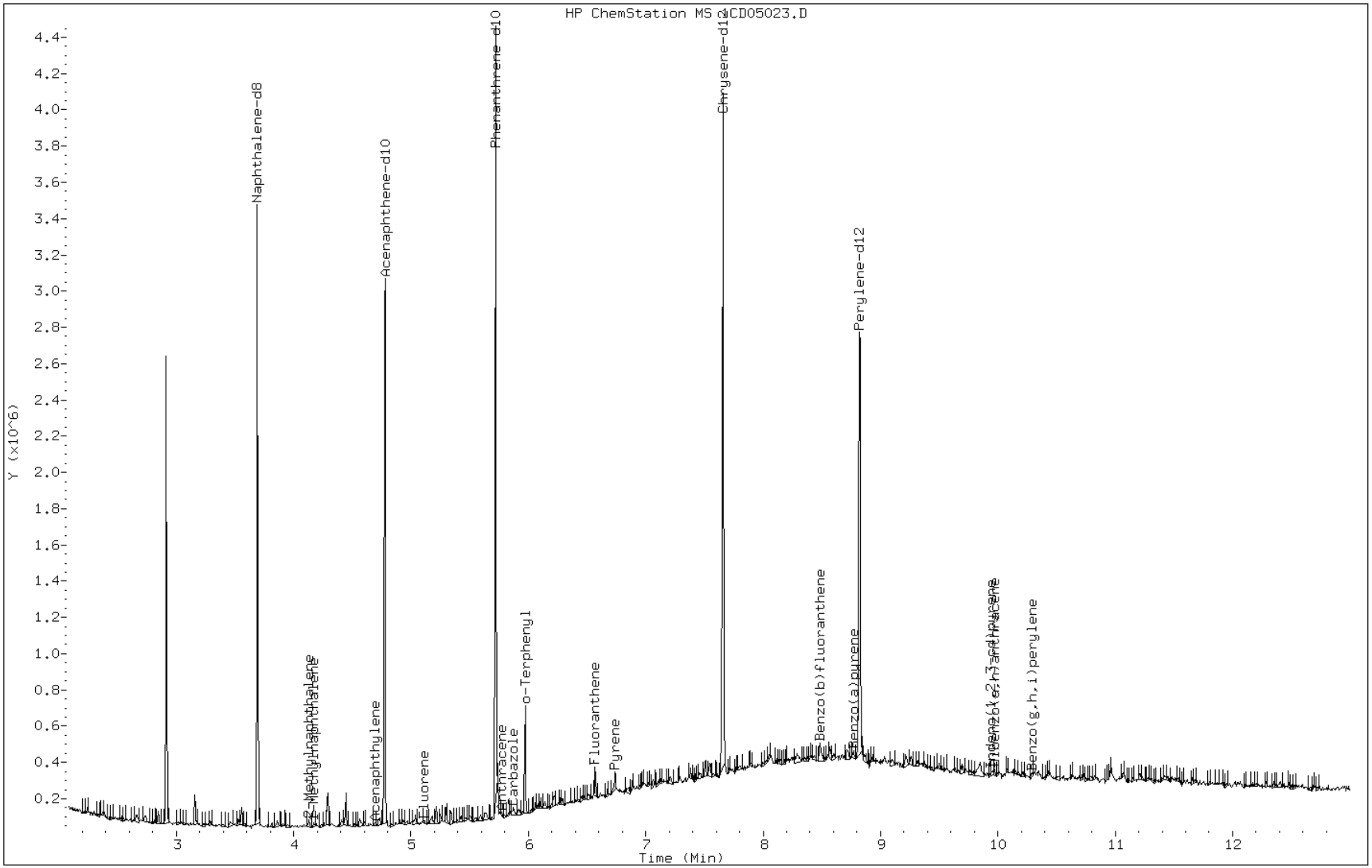
Date: 05-APR-2013 18:10

Client ID: CV0509EE-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-42-a

Operator: SCC



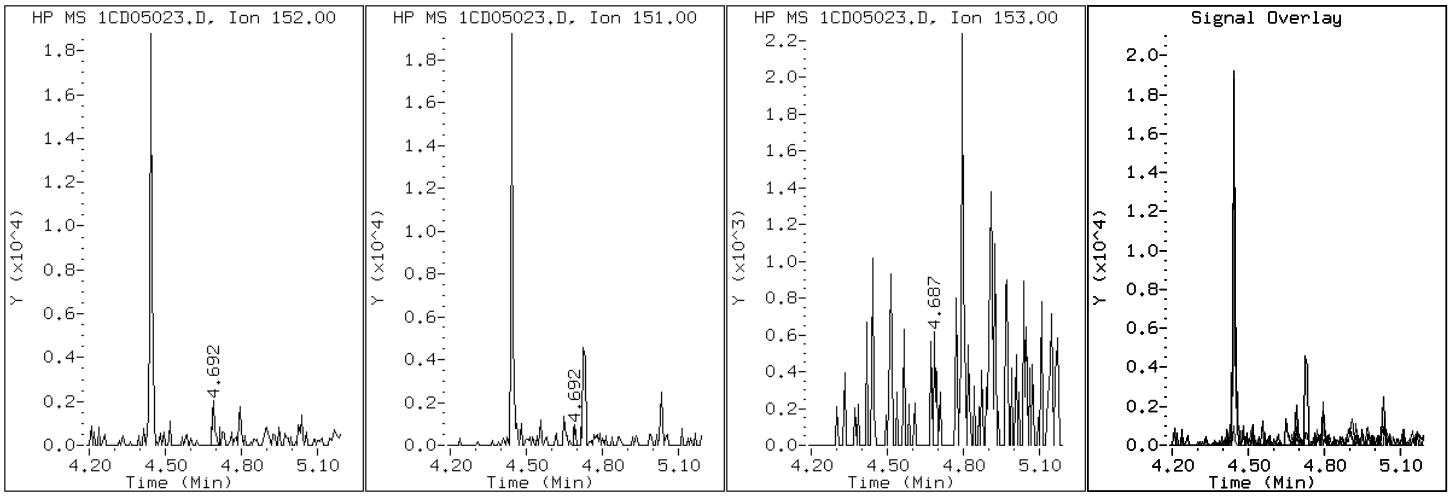
Data File: 1CD05023.D

Date: 05-APR-2013 18:10

Client ID: CV0509EE-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-42-a Operator: SCC

5 Acenaphthylene



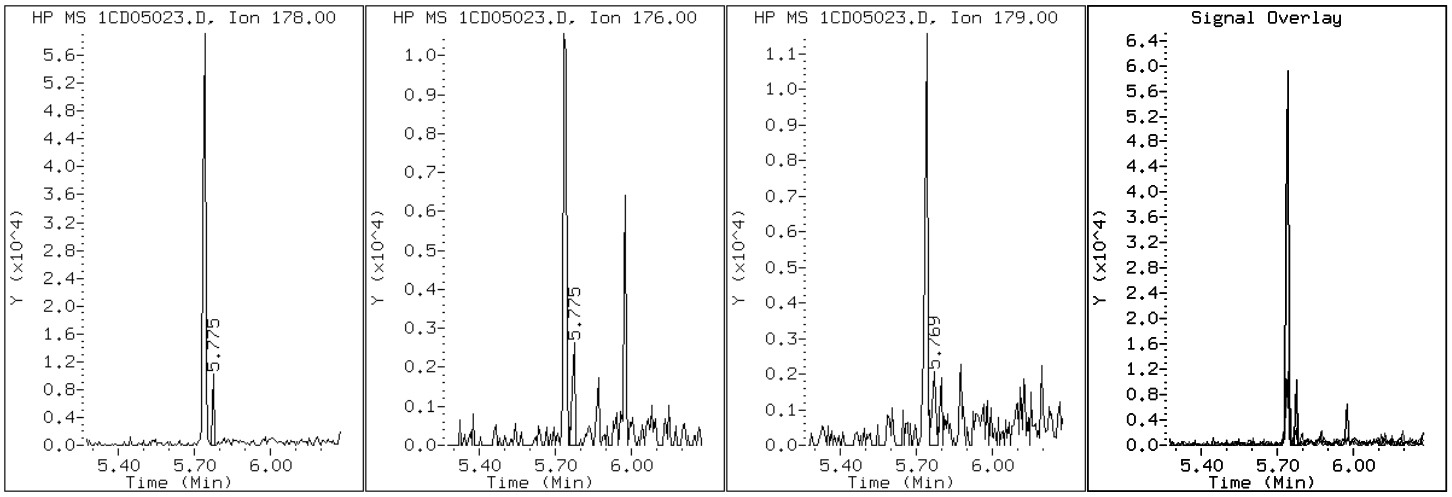
Data File: 1CD05023.D

Date: 05-APR-2013 18:10

Client ID: CV0509EE-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-42-a Operator: SCC

12 Anthracene



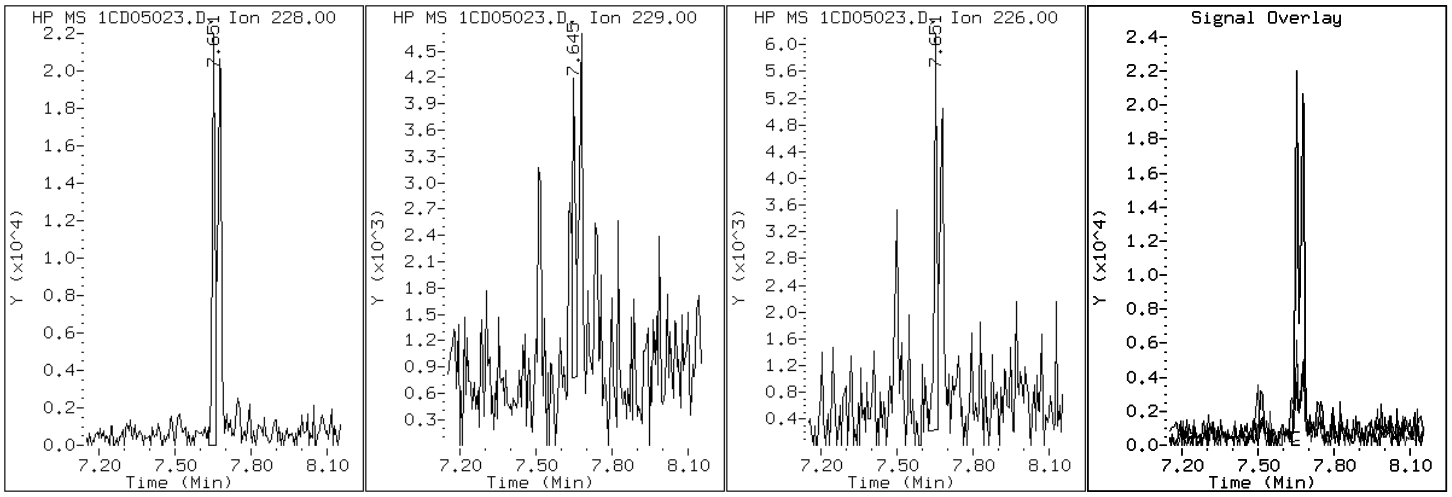
Data File: 1CD05023.D

Date: 05-APR-2013 18:10

Client ID: CV0509EE-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-42-a Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD05023.D

Date: 05-APR-2013 18:10

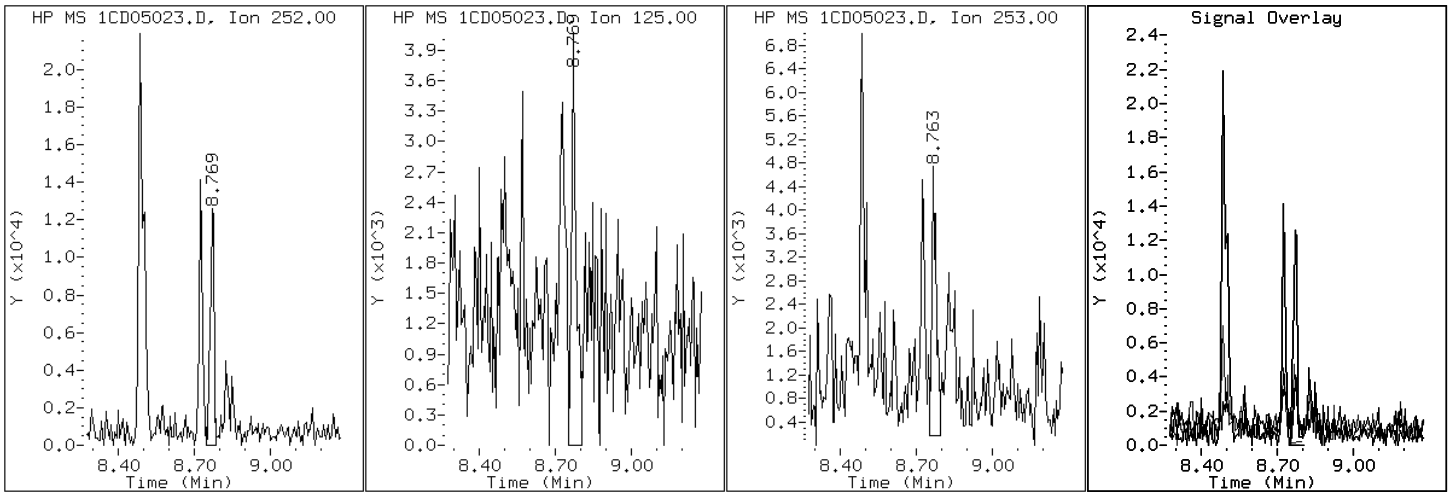
Client ID: CV0509EE-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-42-a

Operator: SCC

22 Benzo(a)pyrene



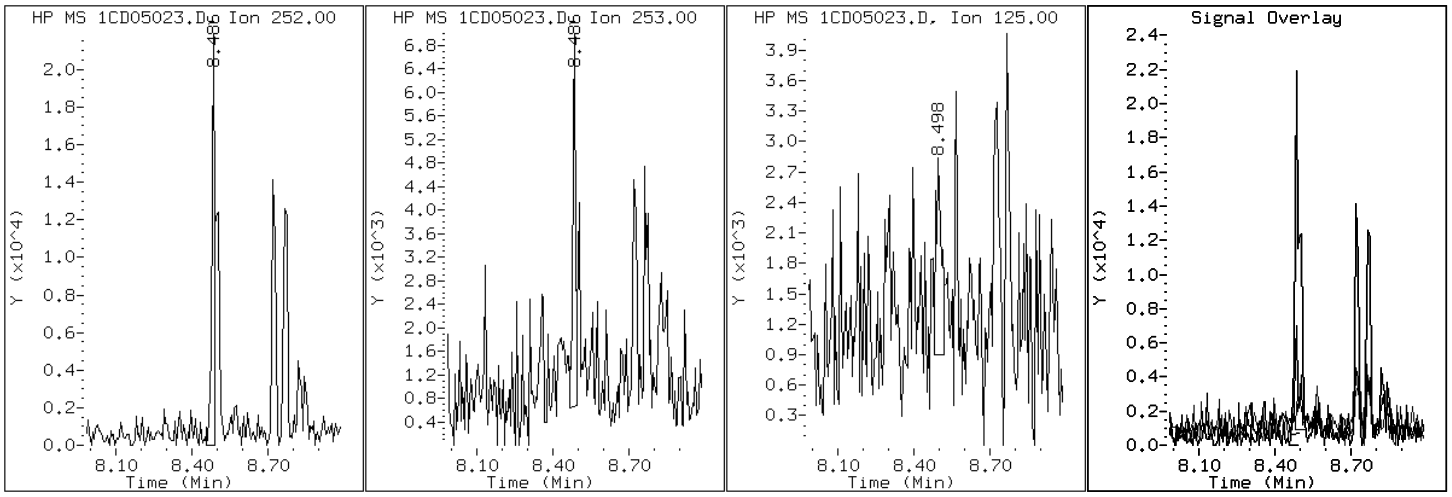
Data File: 1CD05023.D

Date: 05-APR-2013 18:10

Client ID: CV0509EE-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-42-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD05023.D

Date: 05-APR-2013 18:10

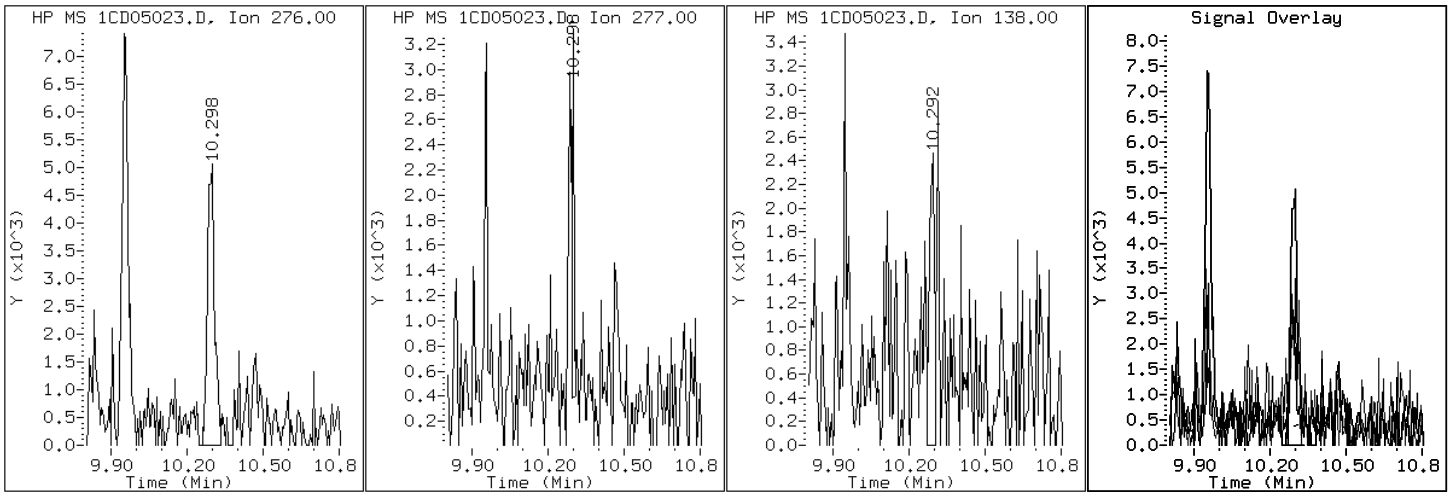
Client ID: CV0509EE-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-42-a

Operator: SCC

26 Benzo(g,h,i)perylene



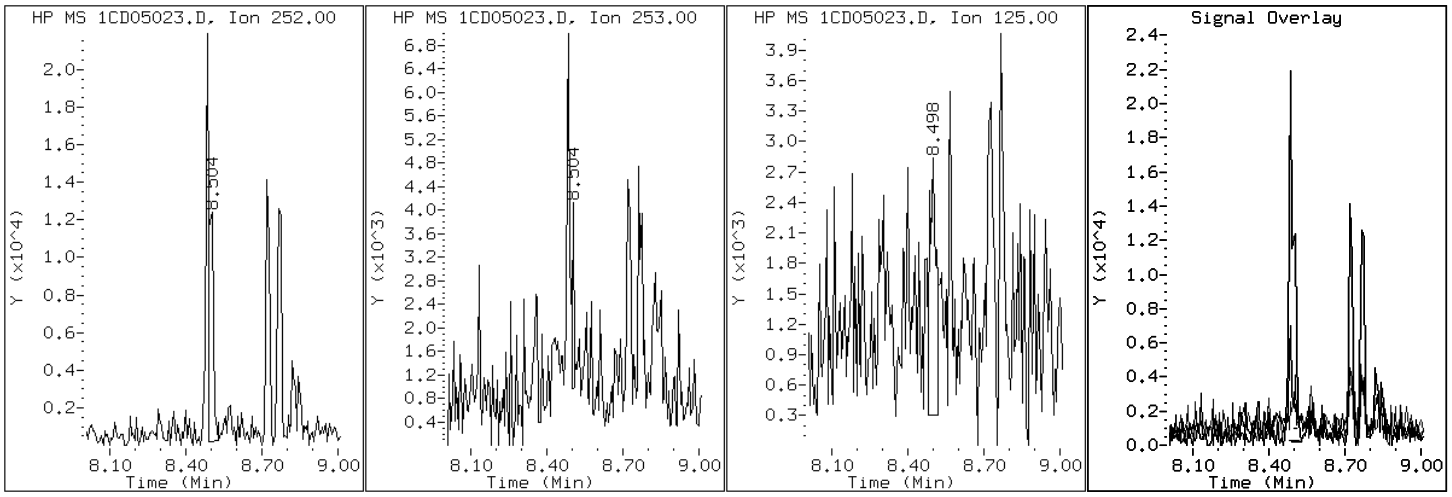
Data File: 1CD05023.D

Date: 05-APR-2013 18:10

Client ID: CV0509EE-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-42-a Operator: SCC

21 Benzo(k)fluoranthene



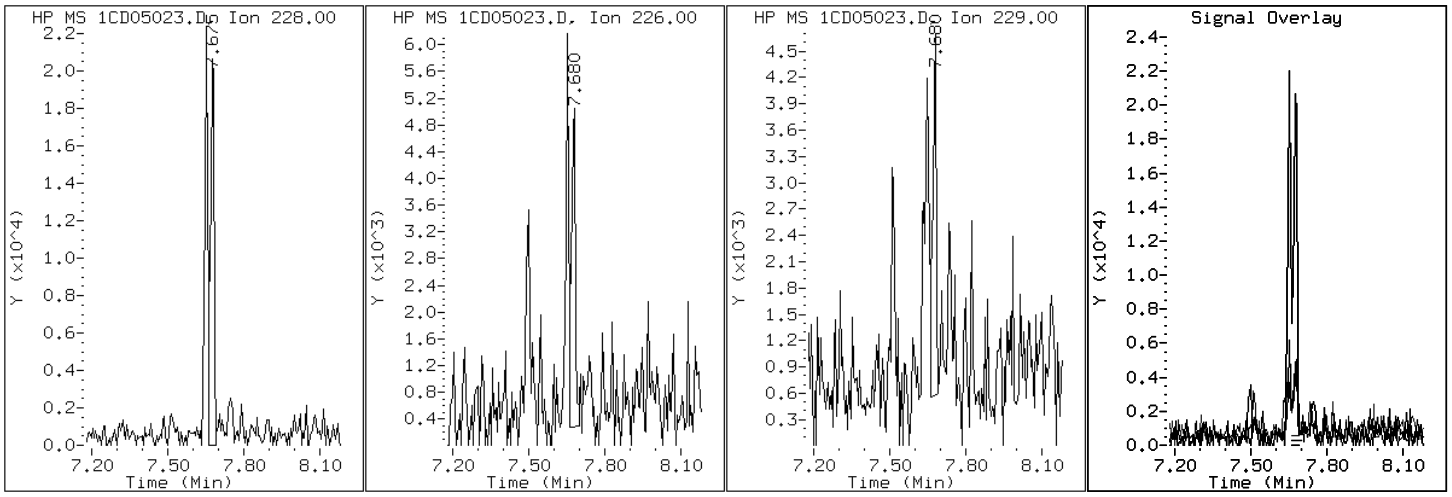
Data File: 1CD05023.D

Date: 05-APR-2013 18:10

Client ID: CV0509EE-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-42-a Operator: SCC

19 Chrysene



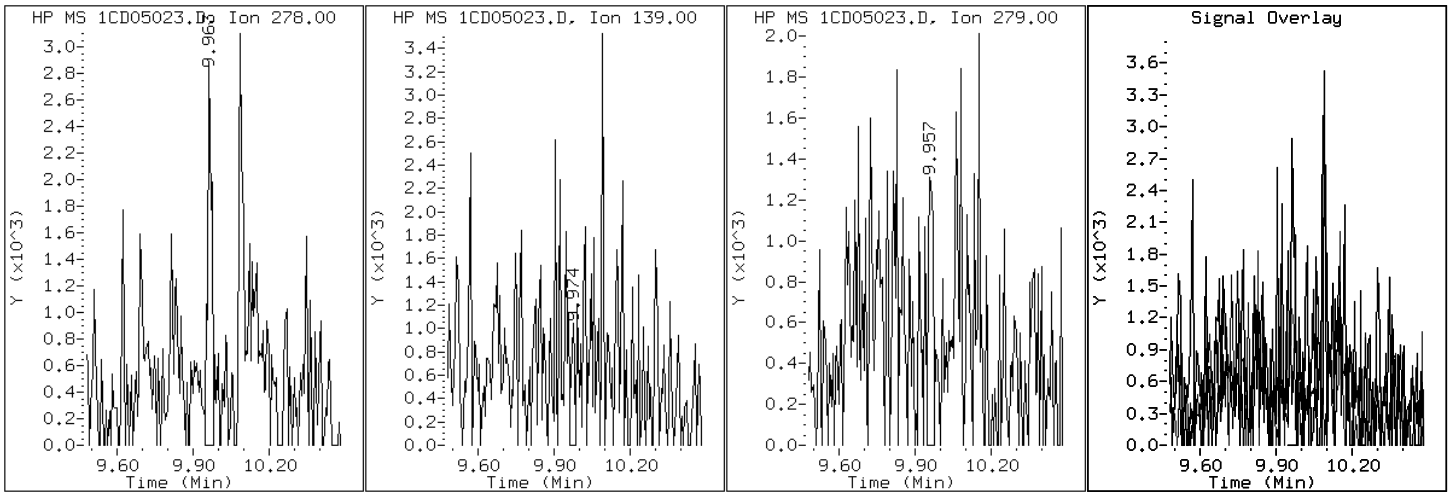
Data File: 1CD05023.D

Date: 05-APR-2013 18:10

Client ID: CV0509EE-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-42-a Operator: SCC

25 Dibenzo(a,h)anthracene



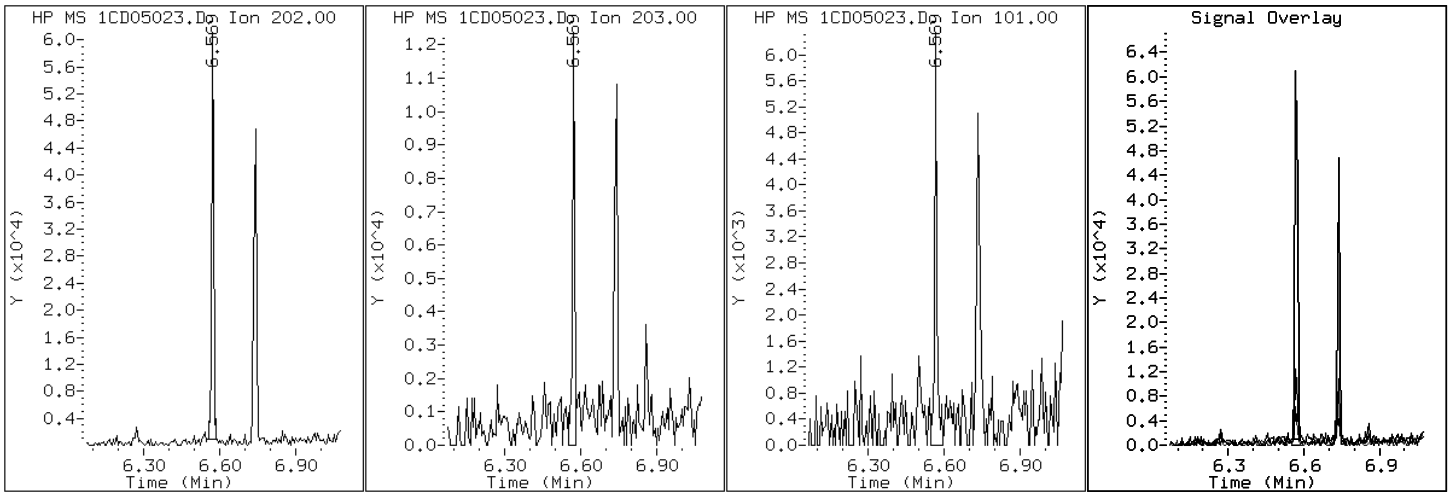
Data File: 1CD05023.D

Date: 05-APR-2013 18:10

Client ID: CV0509EE-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-42-a Operator: SCC

15 Fluoranthene



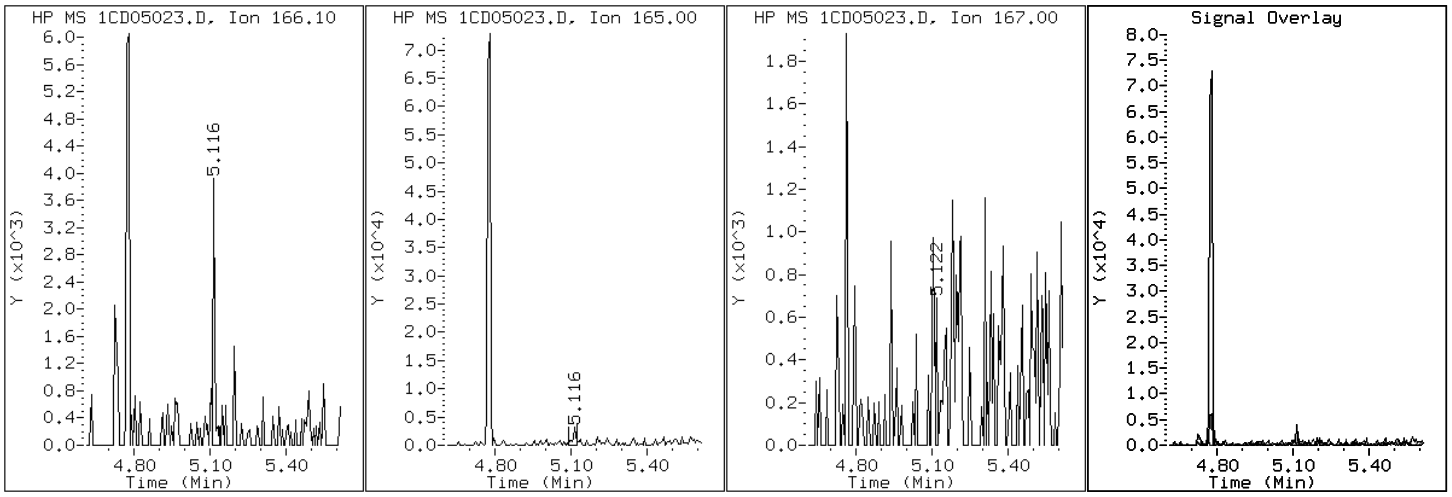
Data File: 1CD05023.D

Date: 05-APR-2013 18:10

Client ID: CV0509EE-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-42-a Operator: SCC

9 Fluorene



Data File: 1CD05023.D

Date: 05-APR-2013 18:10

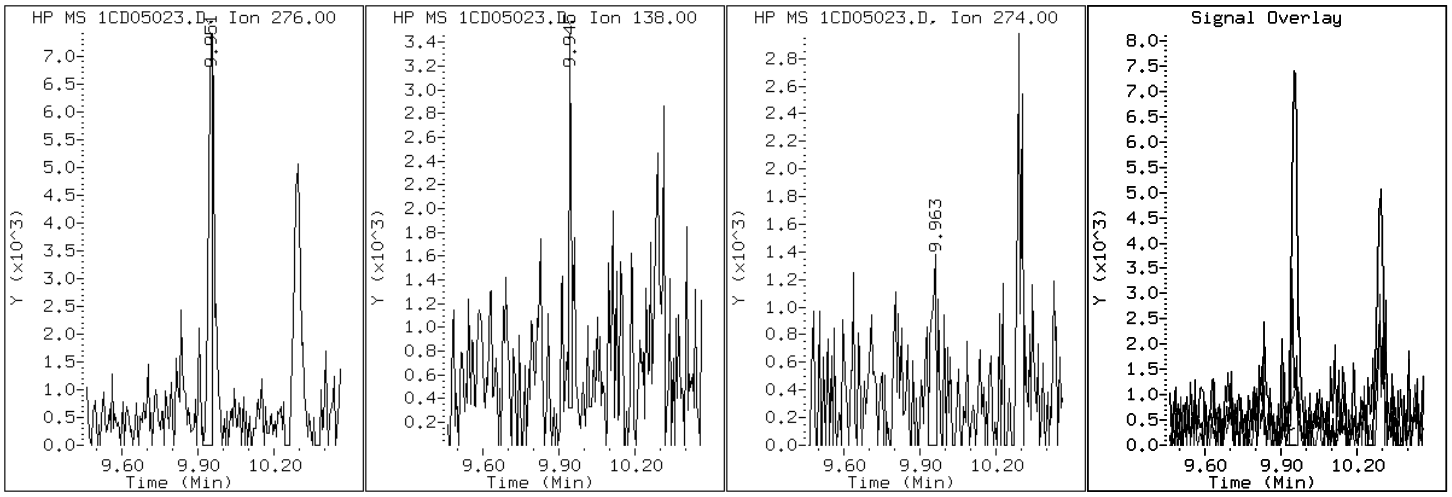
Client ID: CV0509EE-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-42-a

Operator: SCC

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



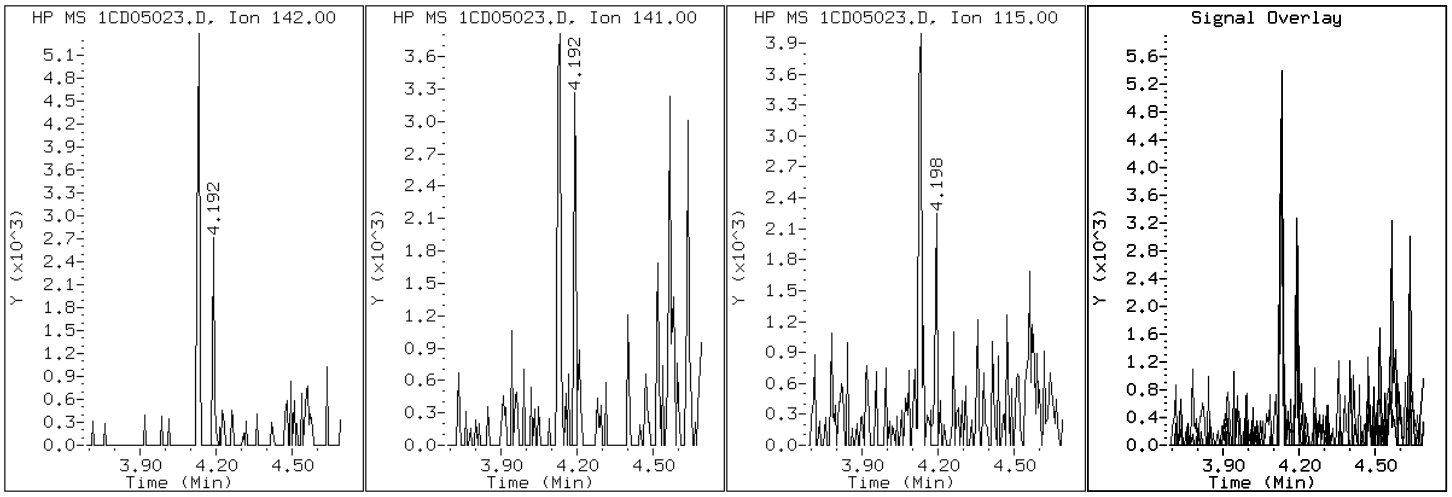
Data File: 1CD05023.D

Date: 05-APR-2013 18:10

Client ID: CV0509EE-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-42-a Operator: SCC

4 1-Methylnaphthalene



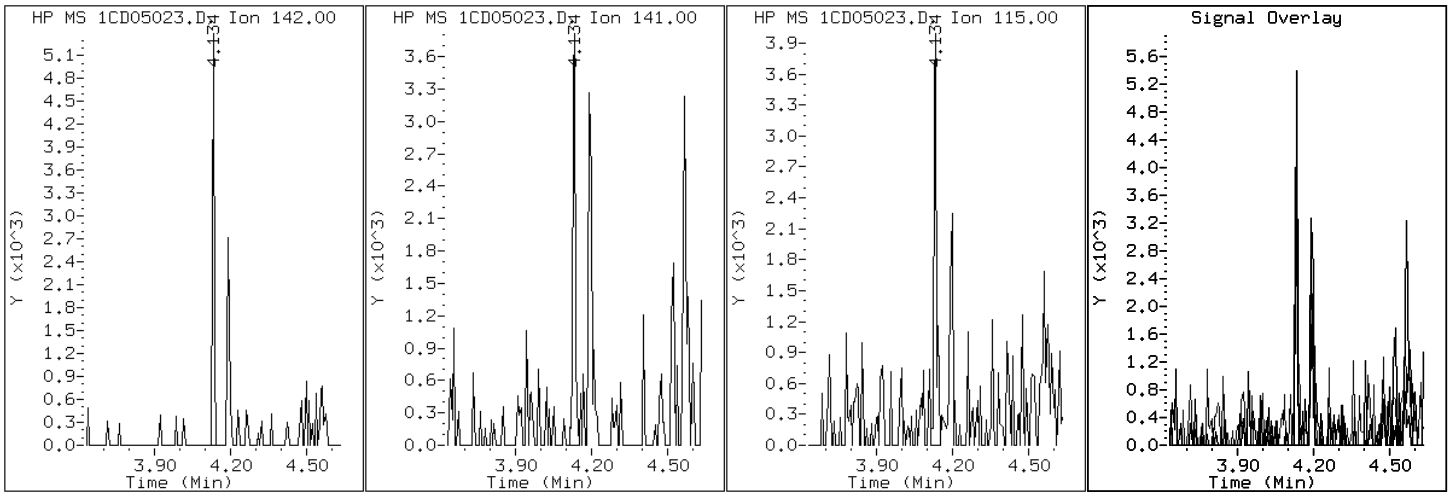
Data File: 1CD05023.D

Date: 05-APR-2013 18:10

Client ID: CV0509EE-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-42-a Operator: SCC

3 2-Methylnaphthalene



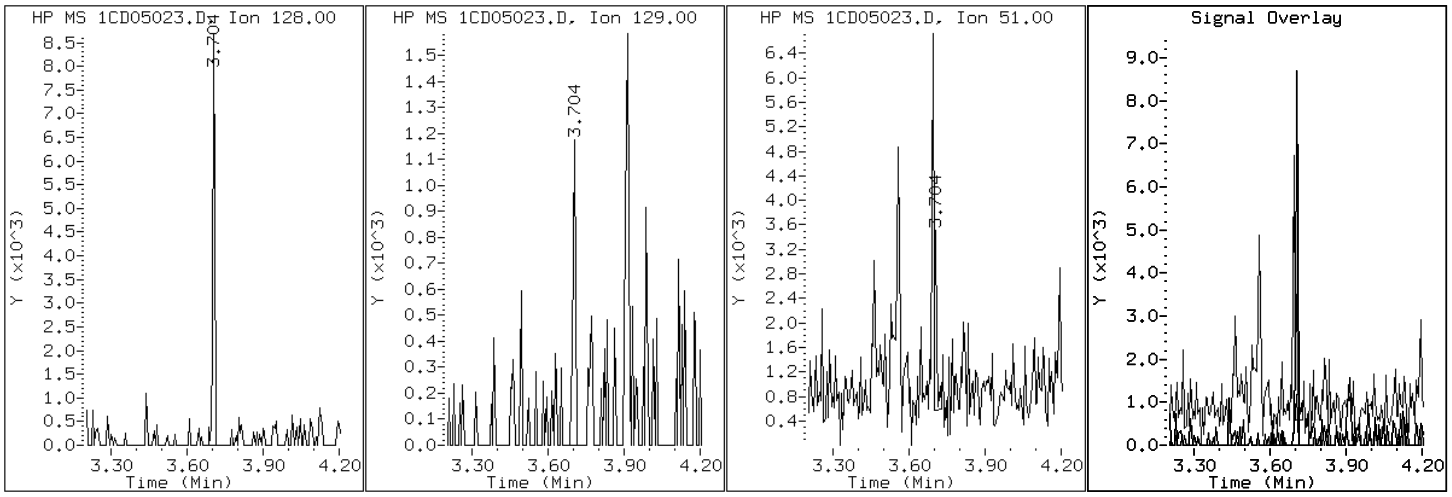
Data File: 1CD05023.D

Date: 05-APR-2013 18:10

Client ID: CV0509EE-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-42-a Operator: SCC

2 Naphthalene



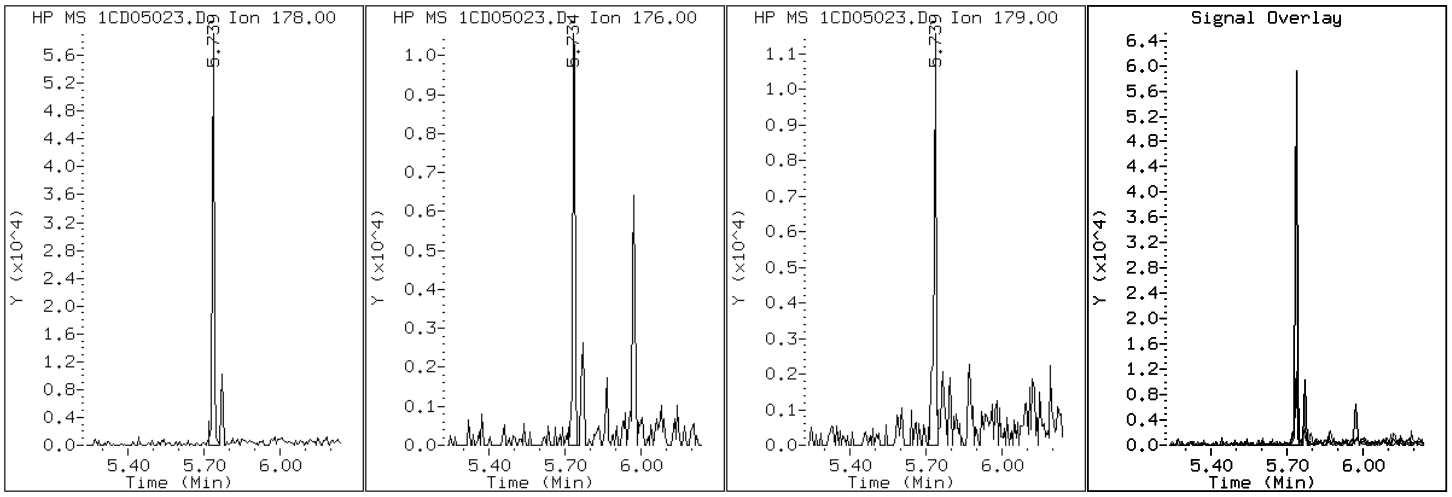
Data File: 1CD05023.D

Date: 05-APR-2013 18:10

Client ID: CV0509EE-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-42-a Operator: SCC

11 Phenanthrene



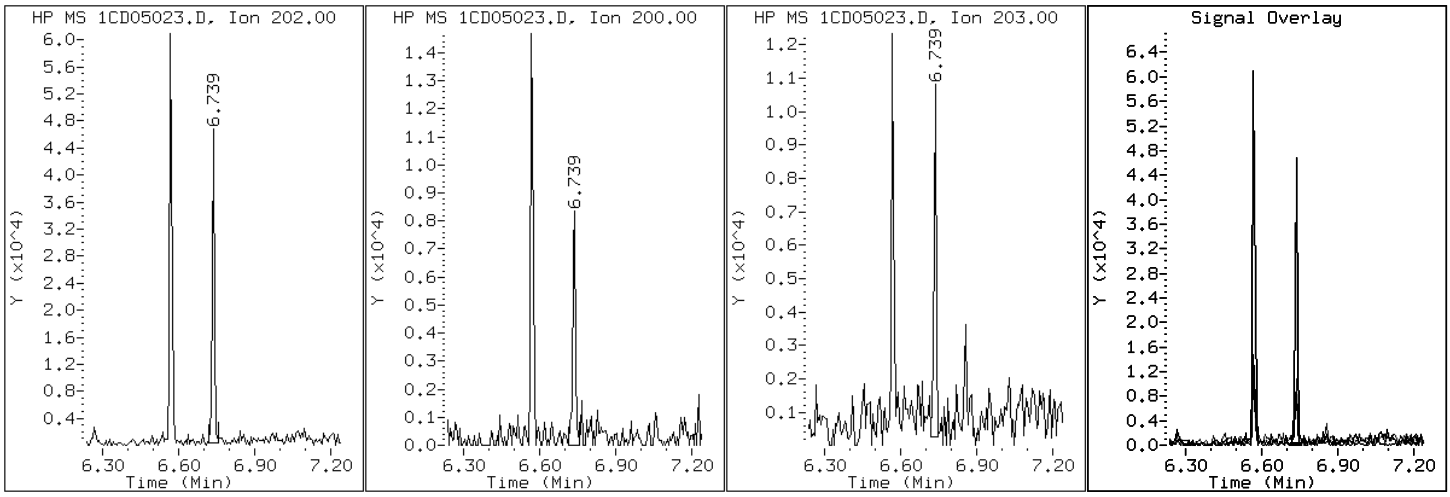
Data File: 1CD05023.D

Date: 05-APR-2013 18:10

Client ID: CV0509EE-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-42-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD05023.D
Inj. Date and Time: 05-APR-2013 18:10
Instrument ID: BSMC5973.i
Client ID: CV0509EE-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

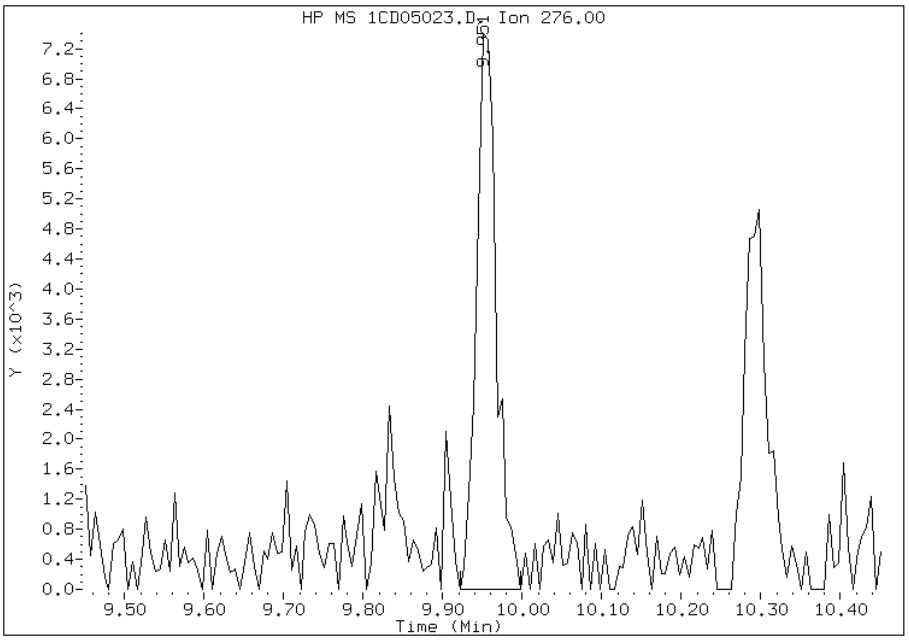
Processing Integration Results

RT: 9.95

Response: 13005

Amount: 1

Conc: 59



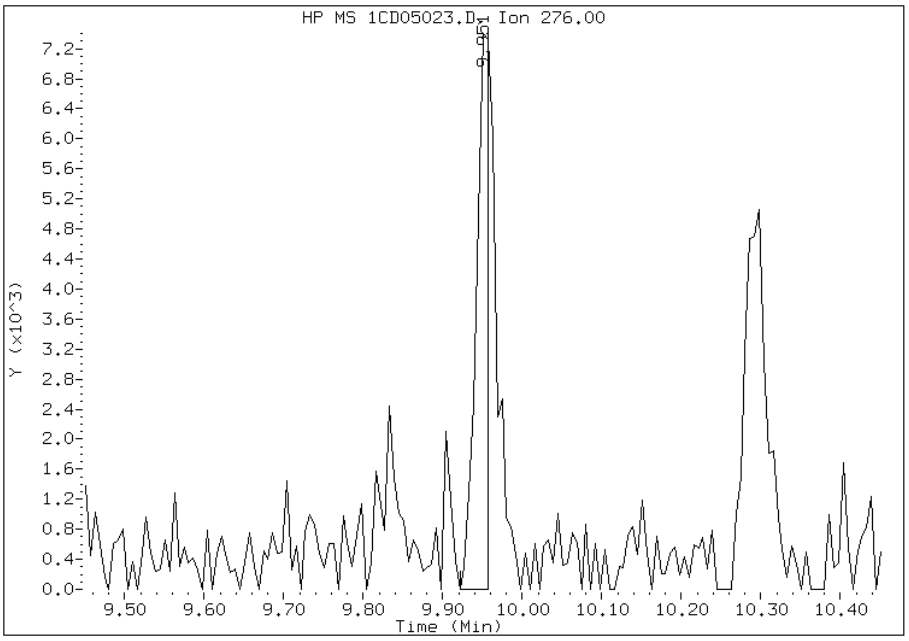
Manual Integration Results

RT: 9.95

Response: 8383

Amount: 0

Conc: 38



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:32
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88767-3

SDG No.: 68088767-3

Client Sample ID: CV0509FF-CS | Lab Sample ID: 680-88767-43

Matrix: Solid | Lab File ID: 1CD05024.D

Analysis Method: 8270C LL | Date Collected: 03/26/2013 15:15

Extract. Method: 3546 | Date Extracted: 04/03/2013 15:12

Sample wt/vol: 14.98(g) | Date Analyzed: 04/05/2013 18:28

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

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

% Moisture: 29.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136171 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	10	J	57	7.1
120-12-7	Anthracene	30		12	6.0
56-55-3	Benzo[a]anthracene	160		11	5.6
50-32-8	Benzo[a]pyrene	120		15	7.4
205-99-2	Benzo[b]fluoranthene	190		17	8.7
191-24-2	Benzo[g,h,i]perylene	99		28	6.3
207-08-9	Benzo[k]fluoranthene	89		11	5.1
218-01-9	Chrysene	140		13	6.4
53-70-3	Dibenz(a,h)anthracene	34		28	5.8
206-44-0	Fluoranthene	250		28	5.7
86-73-7	Fluorene	17	J	28	5.8
193-39-5	Indeno[1,2,3-cd]pyrene	71		28	10
90-12-0	1-Methylnaphthalene	38	J	57	6.3
91-57-6	2-Methylnaphthalene	58		57	10
91-20-3	Naphthalene	46	J	57	6.3
85-01-8	Phenanthrene	180		11	5.6
129-00-0	Pyrene	230		28	5.3

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05024.D
Lab Smp Id: 680-88767-A-43-A Client Smp ID: CV0509FF-CS
Inj Date : 05-APR-2013 18:28
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88767-a-43-a
Misc Info : 680-88767-A-43-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m
Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	29.668	% 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	3.692	3.692	(1.000)	591541	40.0000	
* 6 Acenaphthene-d10	164	4.780	4.780	(1.000)	451167	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	830152	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	75221	6.27671	595.7583
* 18 Chrysene-d12	240	7.657	7.662	(1.000)	910203	40.0000	
* 23 Perylene-d12	264	8.827	8.827	(1.000)	867407	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	7417	0.48817	46.3345
3 2-Methylnaphthalene	142	4.133	4.133	(1.119)	6305	0.60962	57.8623
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	3709	0.39855	37.8285
5 Acenaphthylene	152	4.692	4.692	(0.982)	1982	0.10614	10.0747
9 Fluorene	166	5.116	5.116	(1.070)	2774	0.17992	17.0775
11 Phenanthrene	178	5.739	5.739	(1.003)	46436	1.92060	182.2947
12 Anthracene	178	5.774	5.774	(1.009)	7846	0.32012	30.3847
13 Carbazole	167	5.880	5.880	(1.028)	5134	0.24450	23.2065

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.568	6.574	(1.148)	71181	2.66581	253.0272
16 Pyrene	202	6.739	6.739	(0.880)	62207	2.46723	234.1784
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	39999	1.65229	156.8281
19 Chrysene	228	7.674	7.680	(1.002)	39316	1.51584	143.8767
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	50045	2.04079	193.7031(M)
21 Benzo(k)fluoranthene	252	8.504	8.509	(0.963)	22277	0.93926	89.1508(QM)
22 Benzo(a)pyrene	252	8.768	8.774	(0.993)	29706	1.28669	122.1266
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.962	(1.128)	16428	0.74916	71.1072(M)
25 Dibenzo(a,h)anthracene	278	9.962	9.980	(1.129)	7205	0.35568	33.7599(H)
26 Benzo(g,h,i)perylene	276	10.292	10.303	(1.166)	23372	1.04430	99.1200(M)

QC Flag Legend

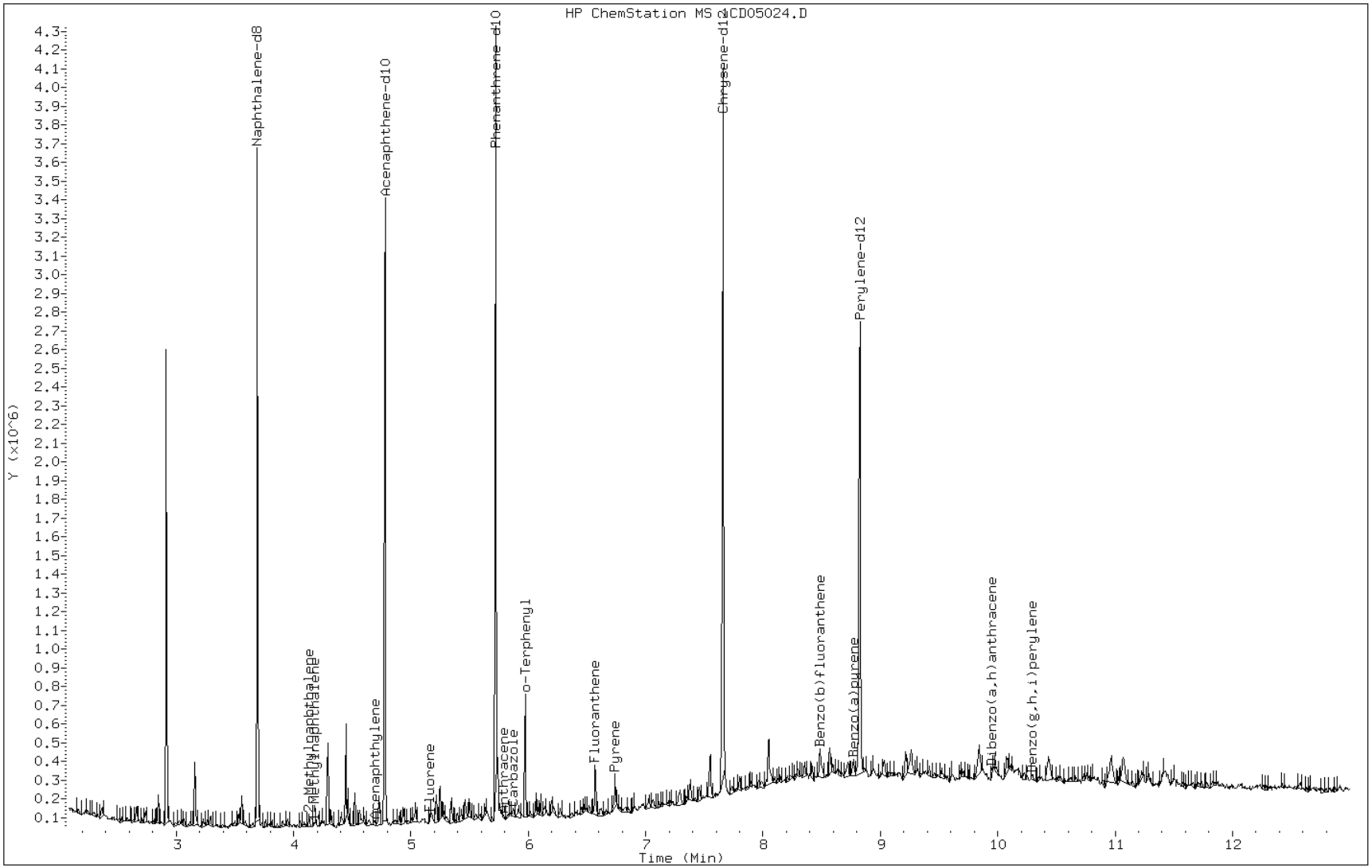
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD05024.D

Date: 05-APR-2013 18:28

Client ID: CV0509FF-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-43-a Operator: SCC



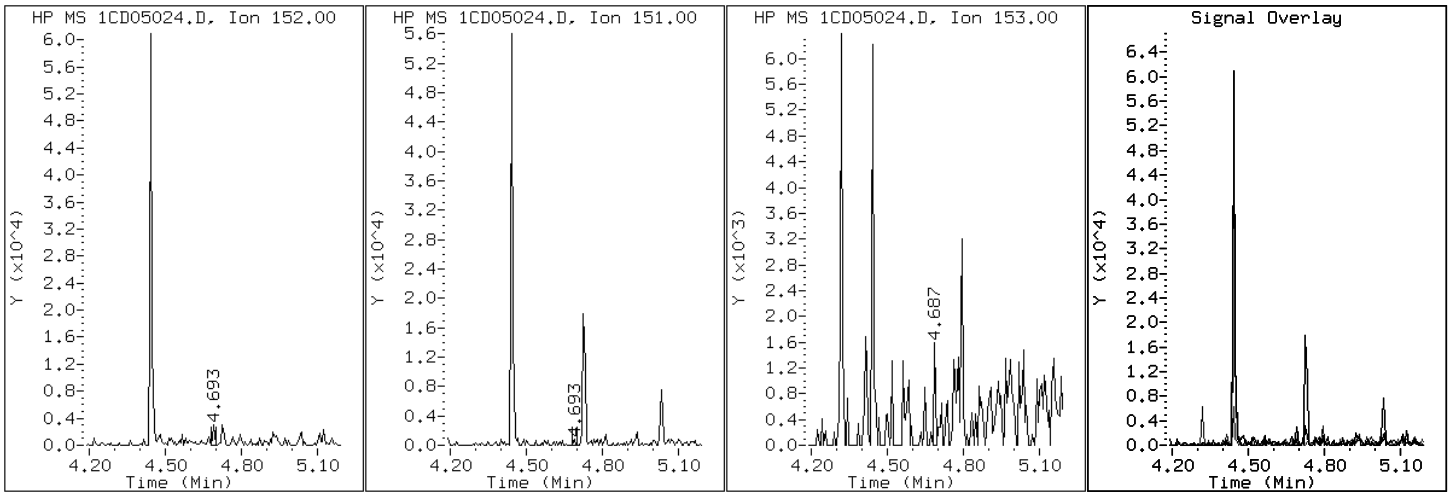
Data File: 1CD05024.D

Date: 05-APR-2013 18:28

Client ID: CV0509FF-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-43-a Operator: SCC

5 Acenaphthylene



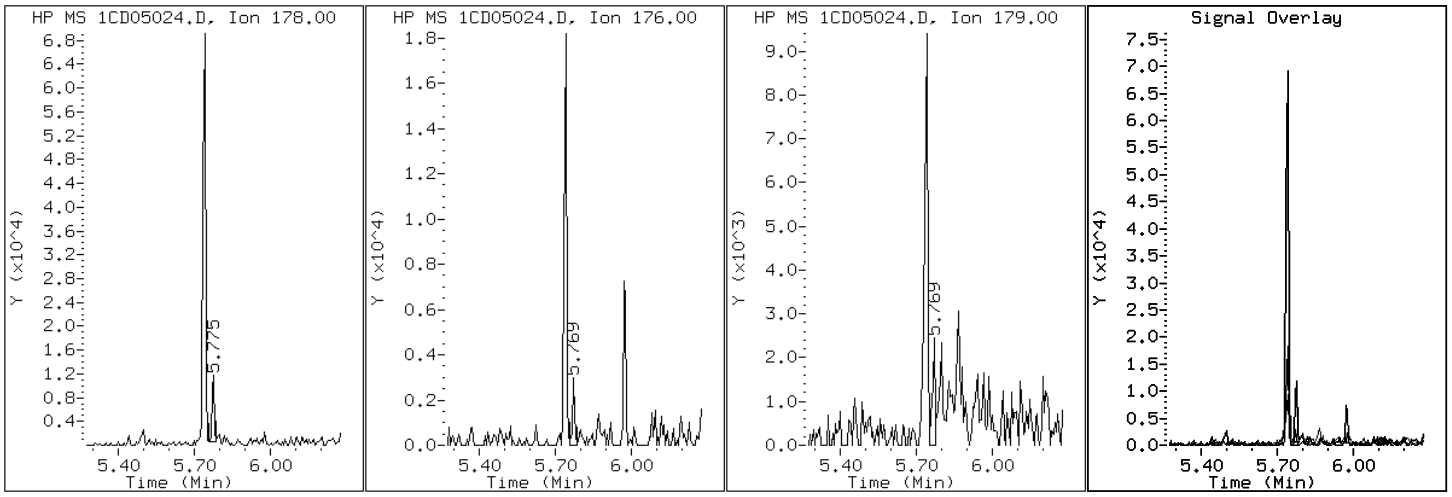
Data File: 1CD05024.D

Date: 05-APR-2013 18:28

Client ID: CV0509FF-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-43-a Operator: SCC

12 Anthracene



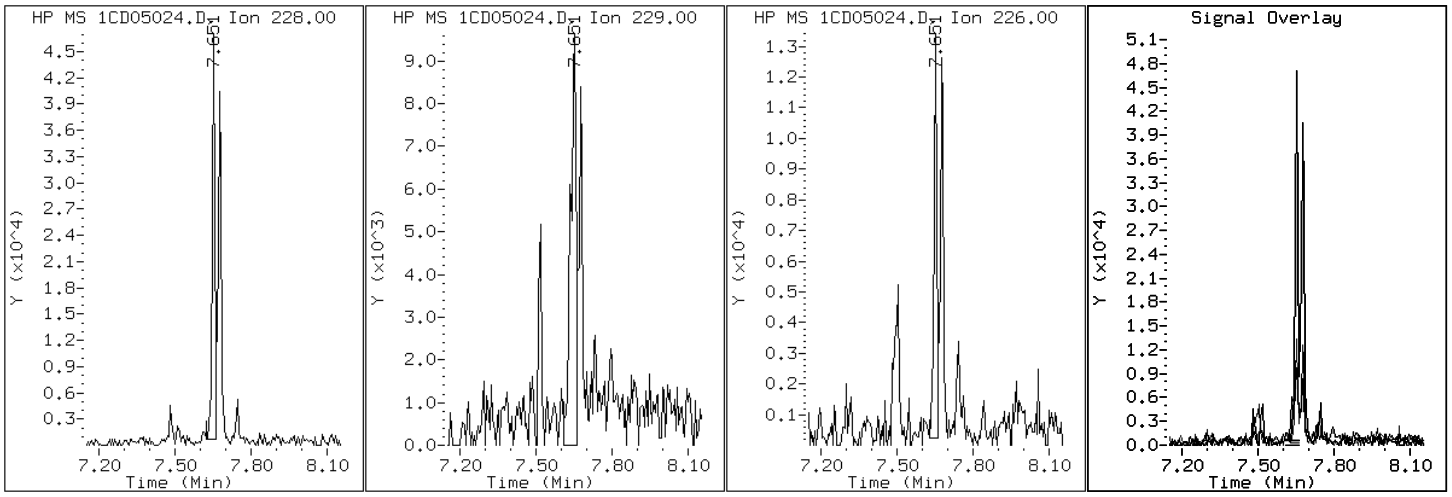
Data File: 1CD05024.D

Date: 05-APR-2013 18:28

Client ID: CV0509FF-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-43-a Operator: SCC

17 Benzo(a)anthracene



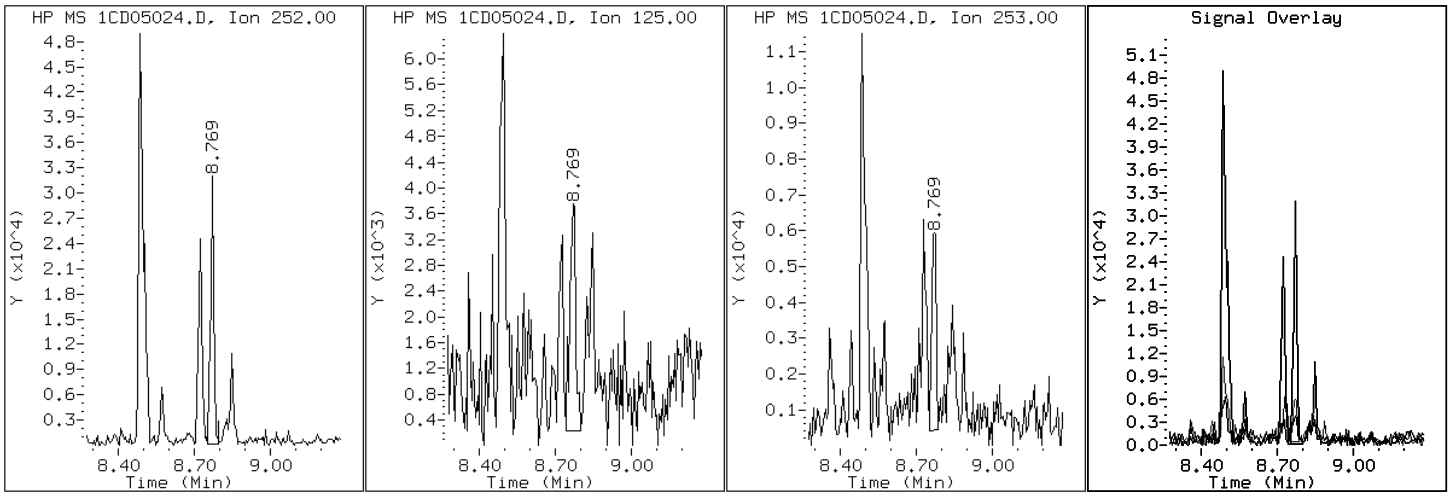
Data File: 1CD05024.D

Date: 05-APR-2013 18:28

Client ID: CV0509FF-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-43-a Operator: SCC

22 Benzo(a)pyrene



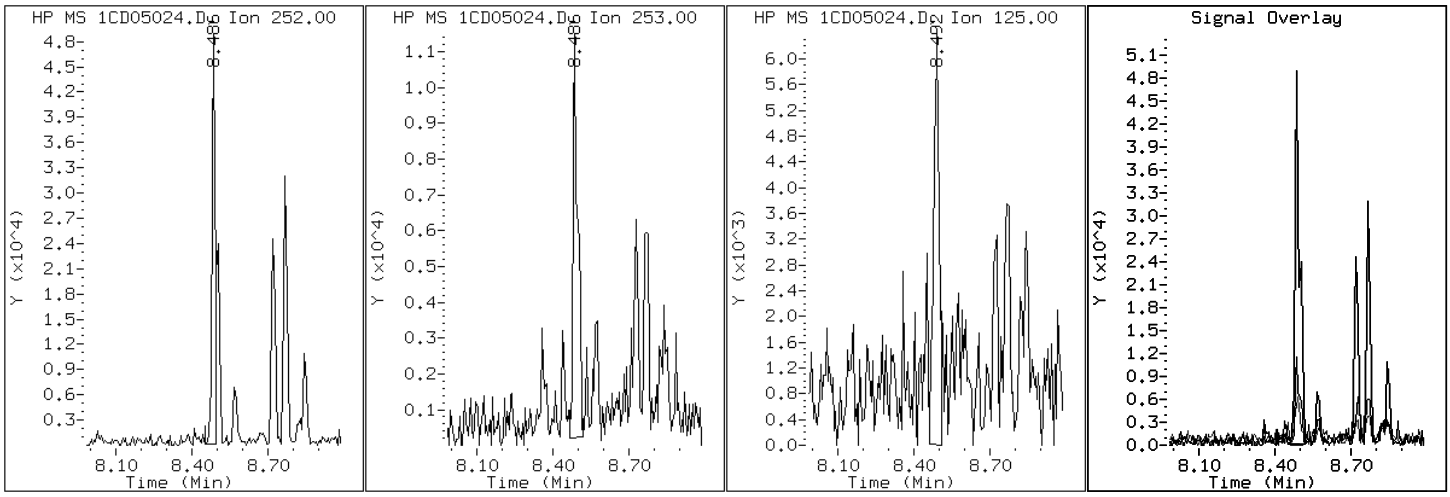
Data File: 1CD05024.D

Date: 05-APR-2013 18:28

Client ID: CV0509FF-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-43-a Operator: SCC

20 Benzo(b)fluoranthene



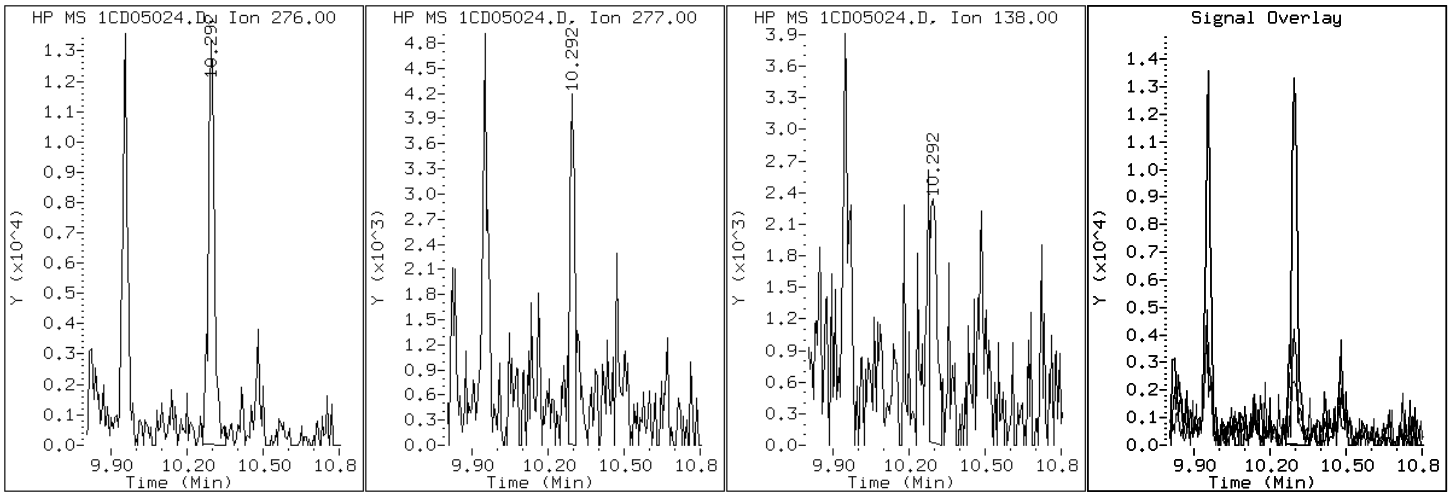
Data File: 1CD05024.D

Date: 05-APR-2013 18:28

Client ID: CV0509FF-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-43-a Operator: SCC

26 Benzo(g,h,i)perylene



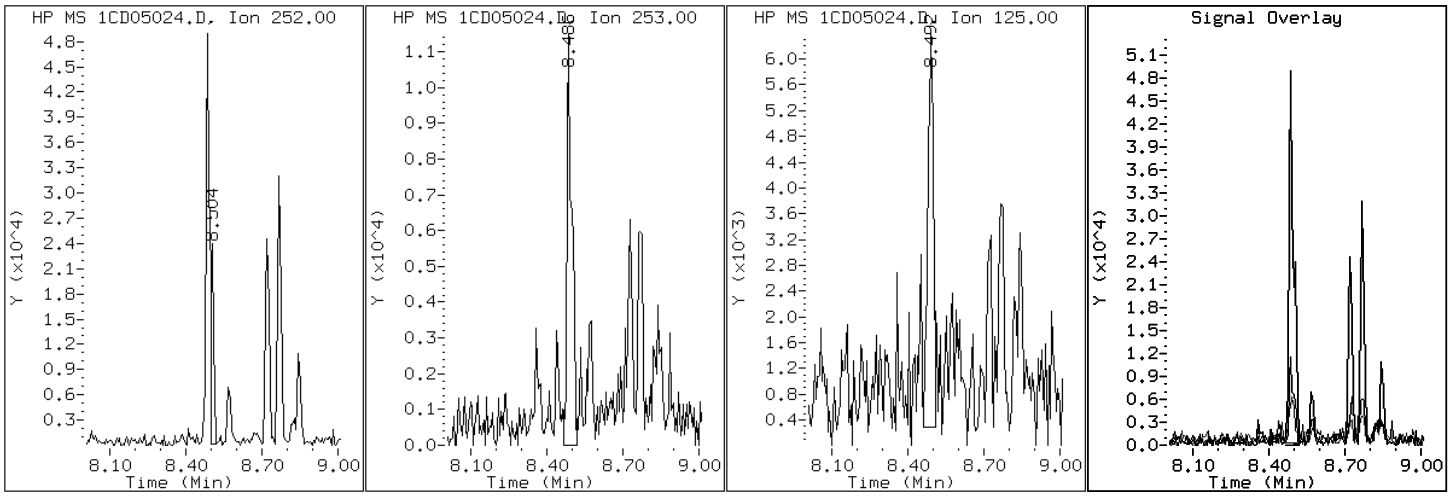
Data File: 1CD05024.D

Date: 05-APR-2013 18:28

Client ID: CV0509FF-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-43-a Operator: SCC

21 Benzo(k)fluoranthene



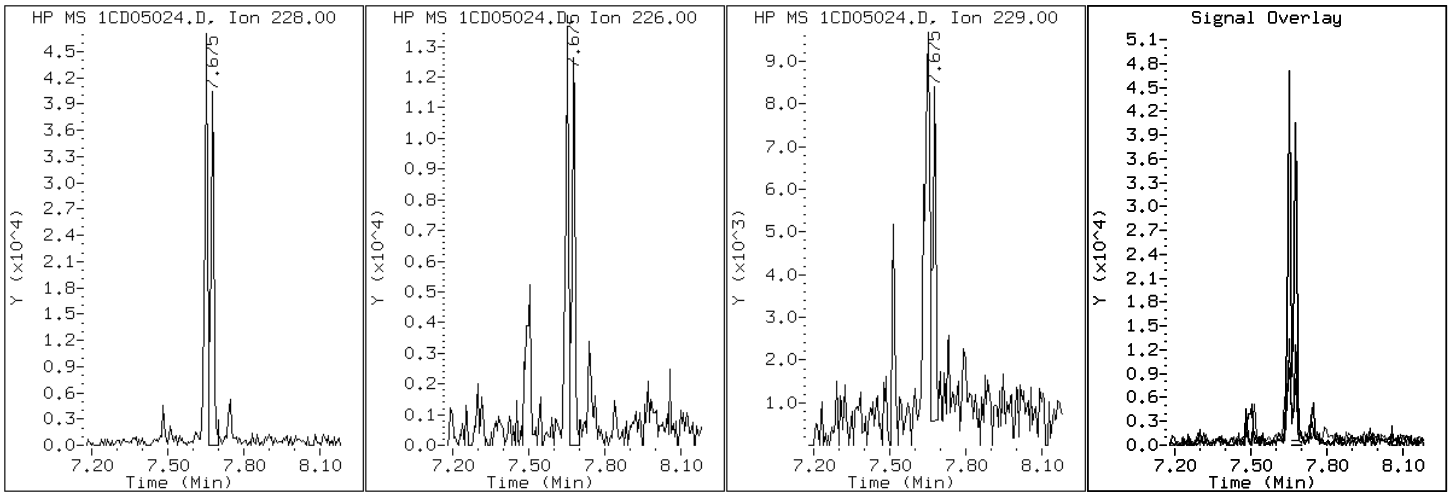
Data File: 1CD05024.D

Date: 05-APR-2013 18:28

Client ID: CV0509FF-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-43-a Operator: SCC

19 Chrysene



Data File: 1CD05024.D

Date: 05-APR-2013 18:28

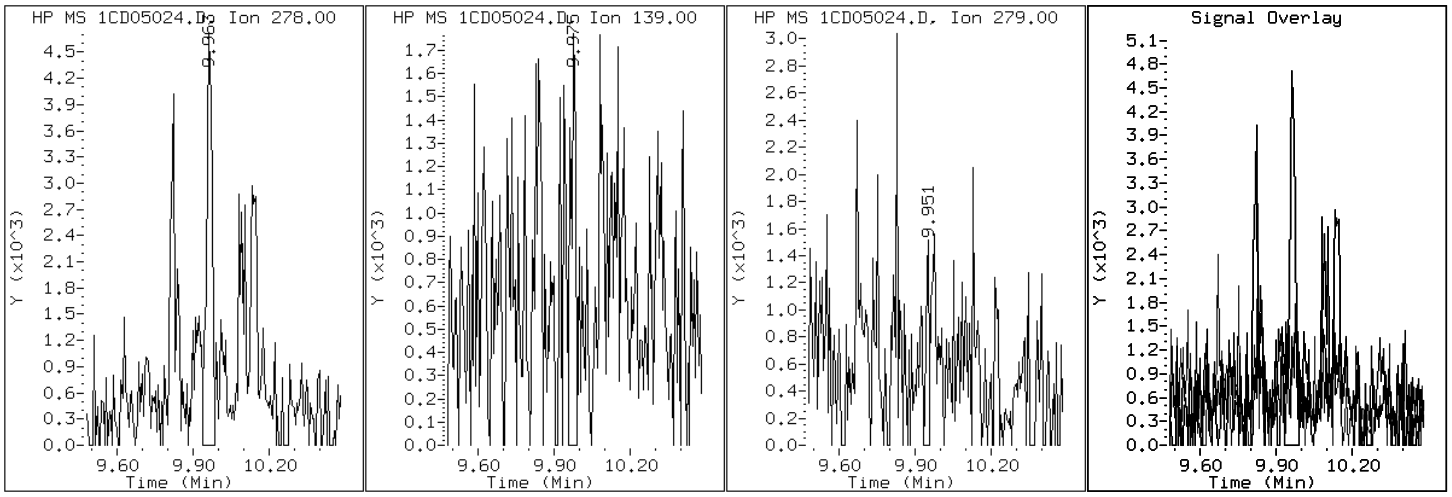
Client ID: CV0509FF-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-43-a

Operator: SCC

25 Dibenzo(a,h)anthracene



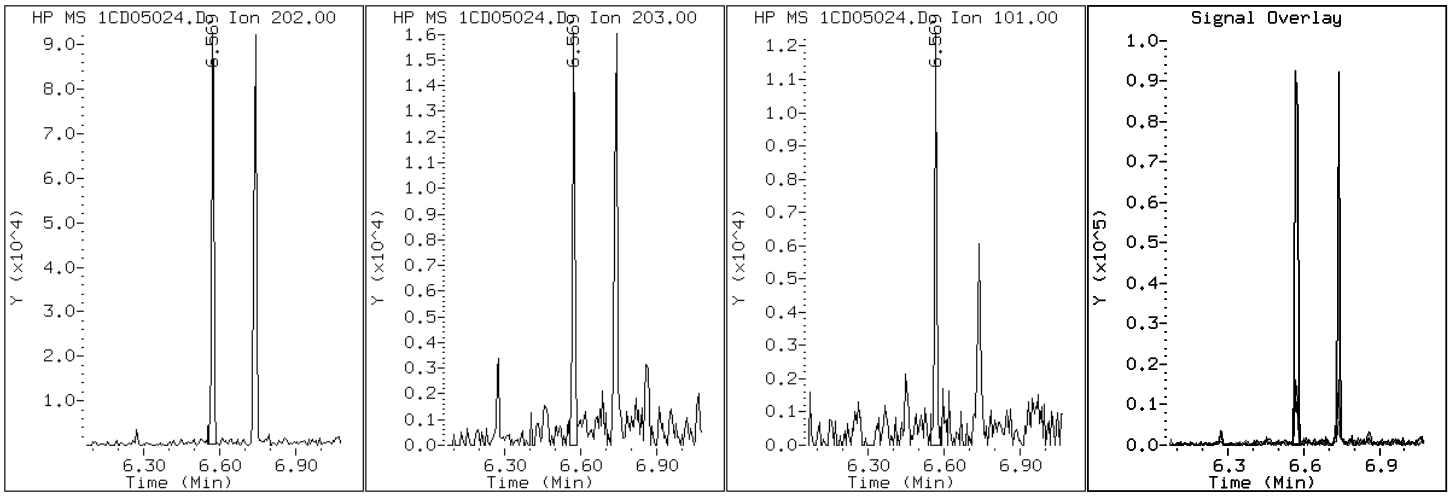
Data File: 1CD05024.D

Date: 05-APR-2013 18:28

Client ID: CV0509FF-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-43-a Operator: SCC

15 Fluoranthene



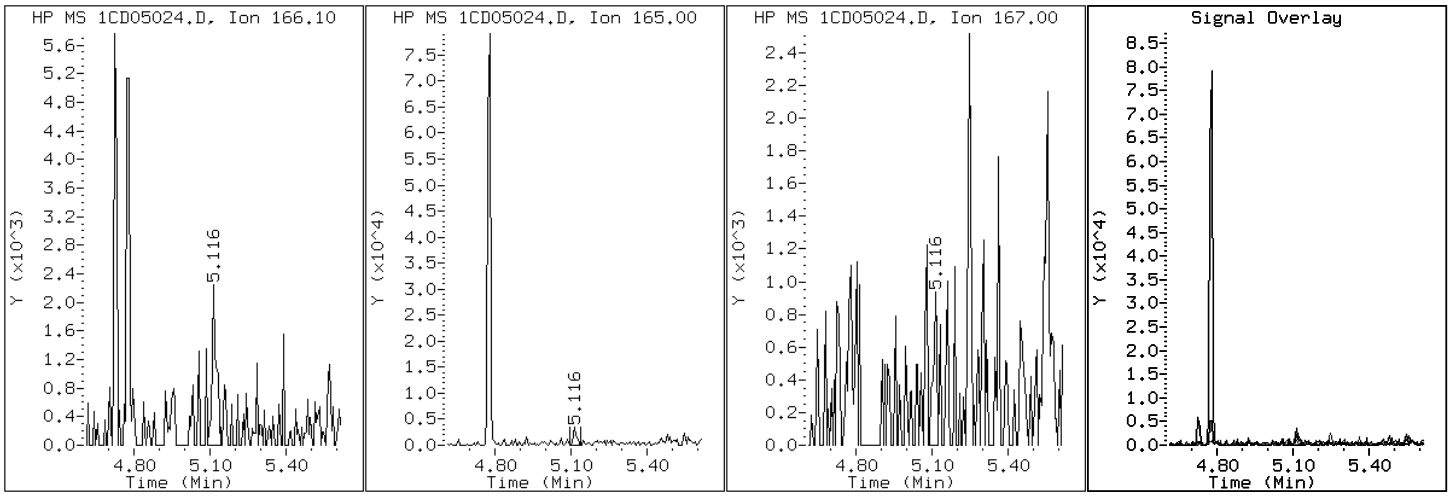
Data File: 1CD05024.D

Date: 05-APR-2013 18:28

Client ID: CV0509FF-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-43-a Operator: SCC

9 Fluorene



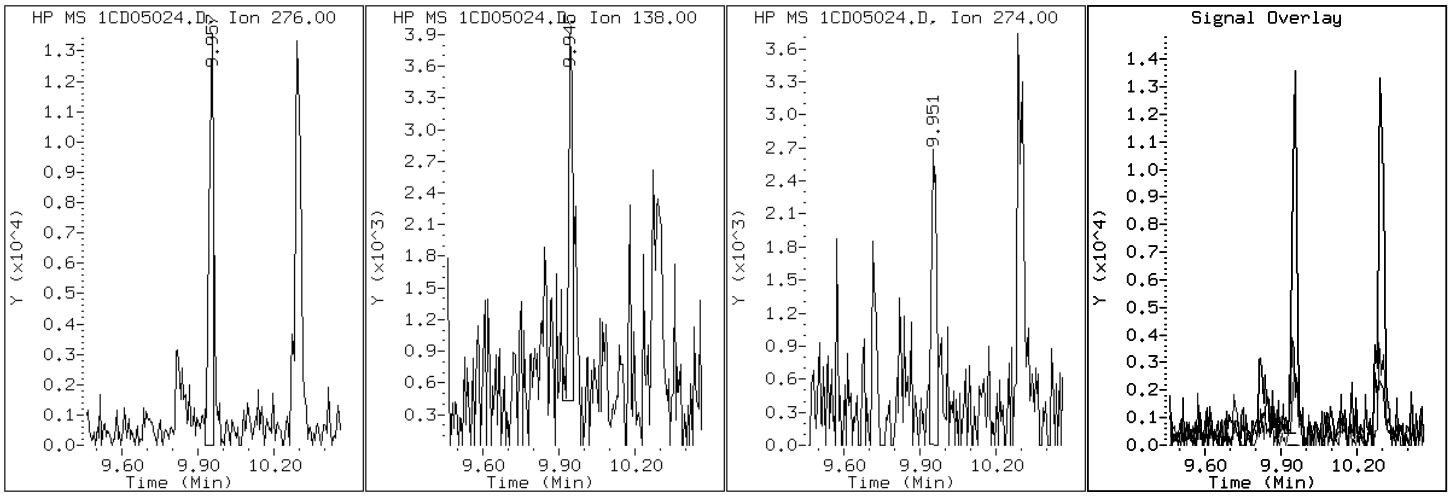
Data File: 1CD05024.D

Date: 05-APR-2013 18:28

Client ID: CV0509FF-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-43-a Operator: SCC

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



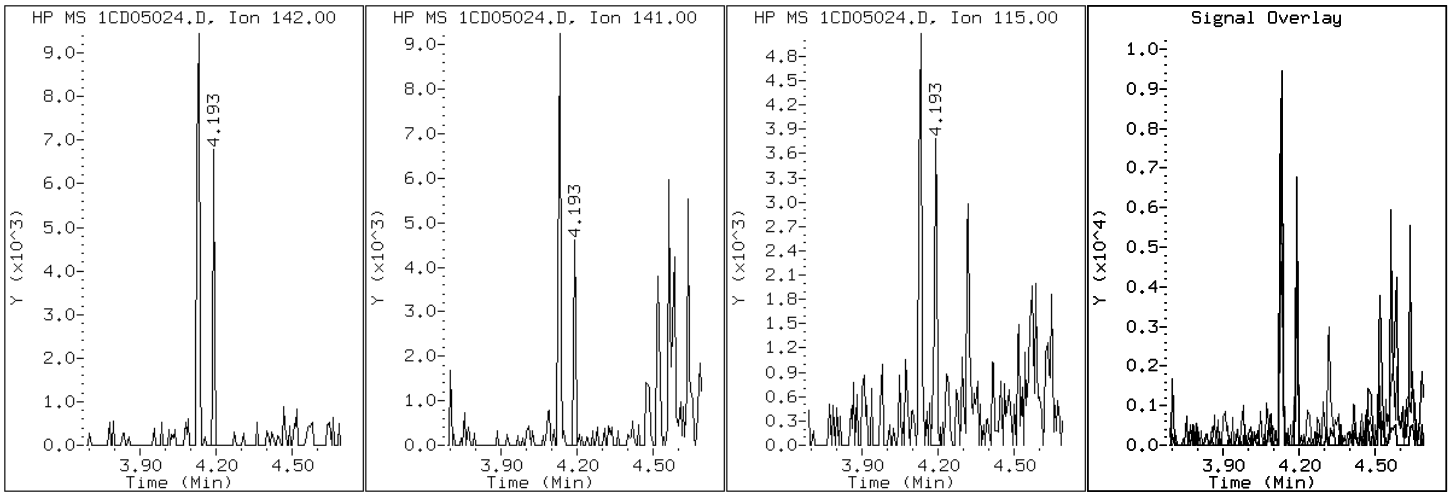
Data File: 1CD05024.D

Date: 05-APR-2013 18:28

Client ID: CV0509FF-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-43-a Operator: SCC

4 1-Methylnaphthalene



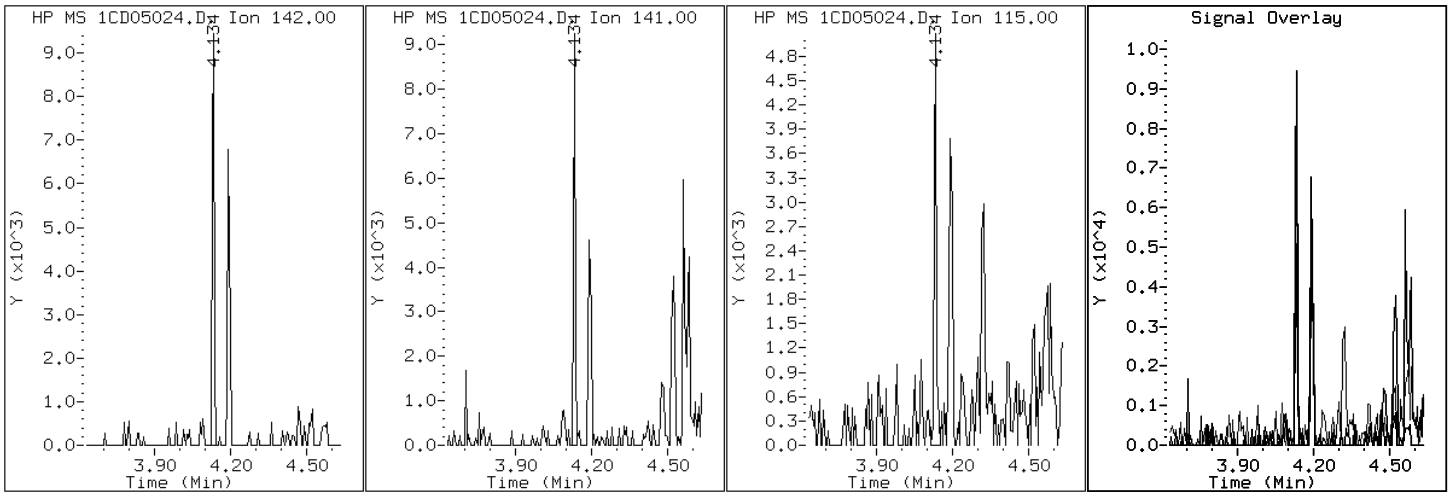
Data File: 1CD05024.D

Date: 05-APR-2013 18:28

Client ID: CV0509FF-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-43-a Operator: SCC

3 2-Methylnaphthalene



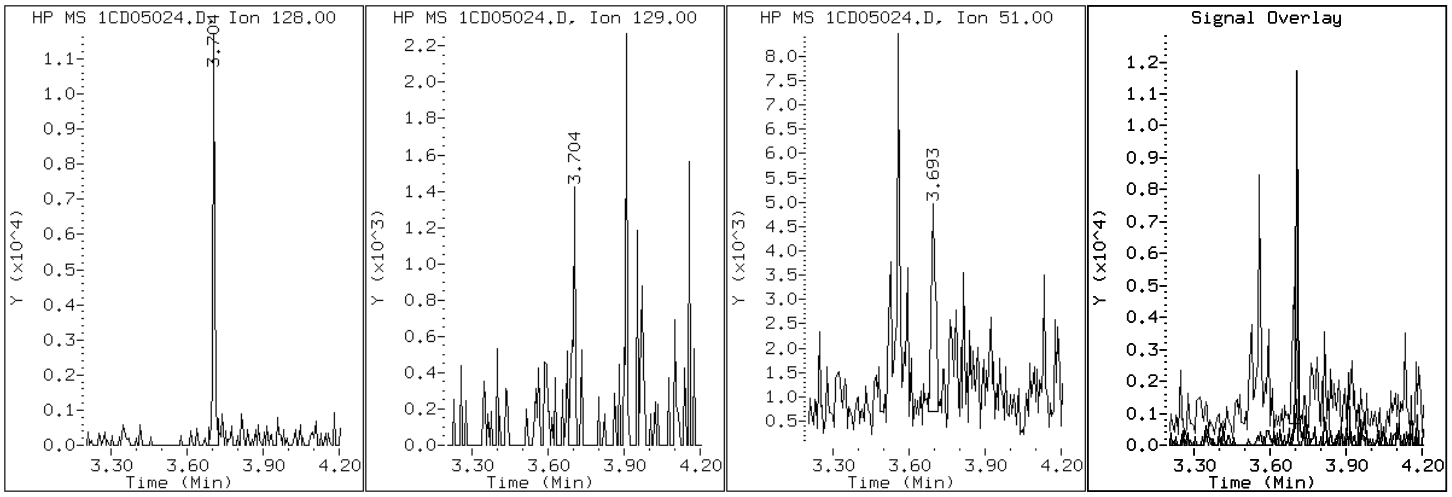
Data File: 1CD05024.D

Date: 05-APR-2013 18:28

Client ID: CV0509FF-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-43-a Operator: SCC

2 Naphthalene



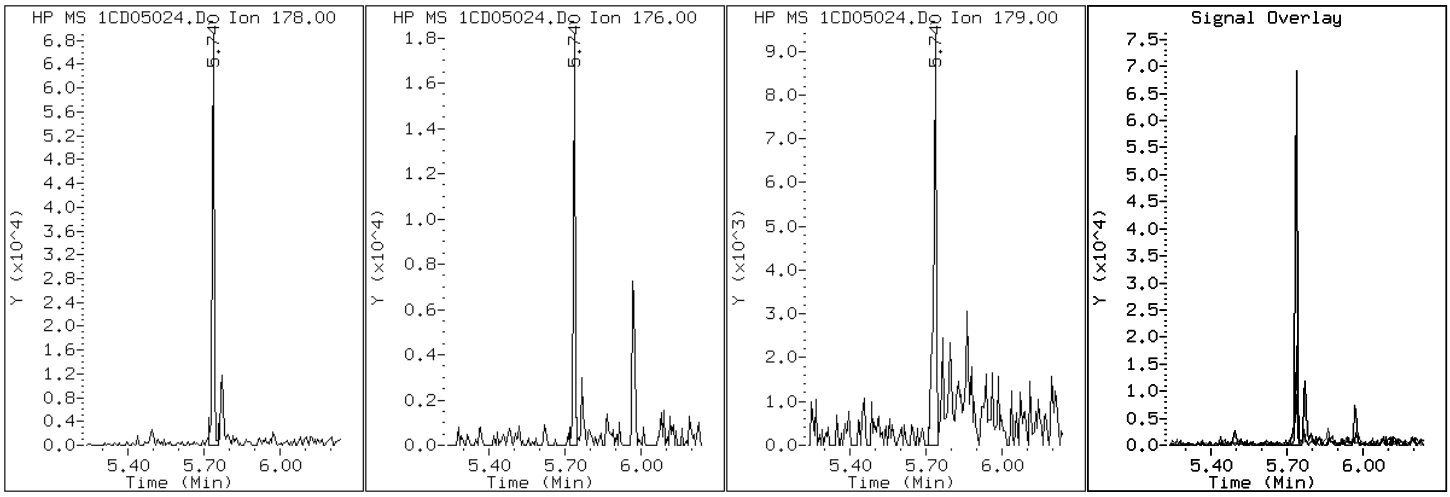
Data File: 1CD05024.D

Date: 05-APR-2013 18:28

Client ID: CV0509FF-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-43-a Operator: SCC

11 Phenanthrene



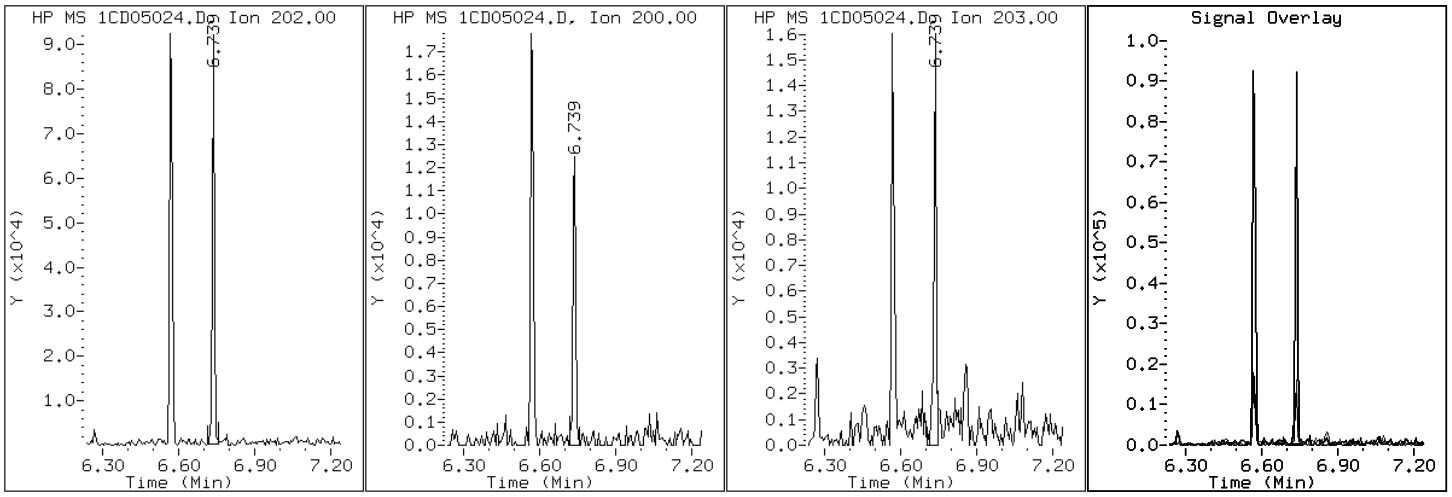
Data File: 1CD05024.D

Date: 05-APR-2013 18:28

Client ID: CV0509FF-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-43-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD05024.D
Inj. Date and Time: 05-APR-2013 18:28
Instrument ID: BSMC5973.i
Client ID: CV0509FF-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/09/2013

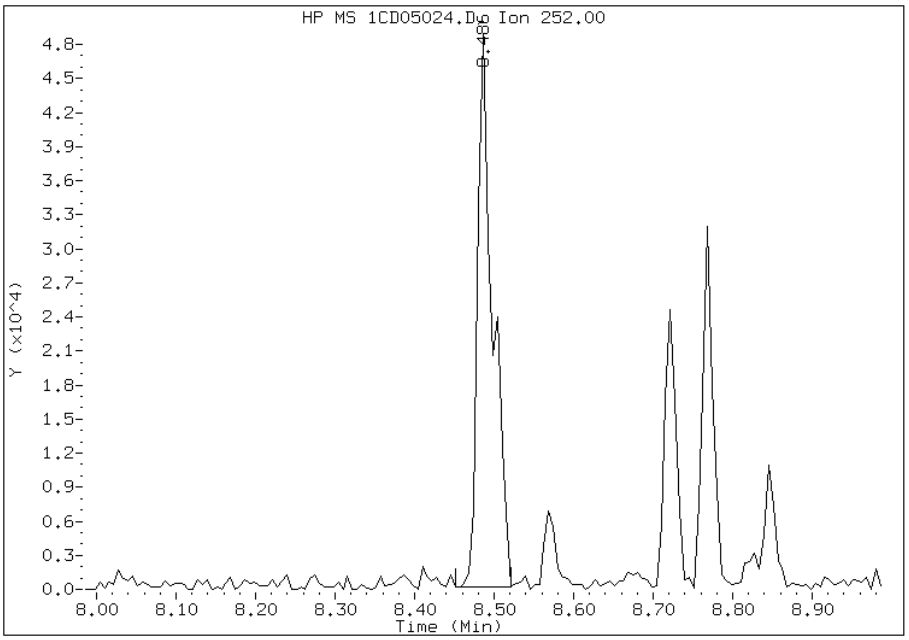
Processing Integration Results

RT: 8.49

Response: 65171

Amount: 3

Conc: 252



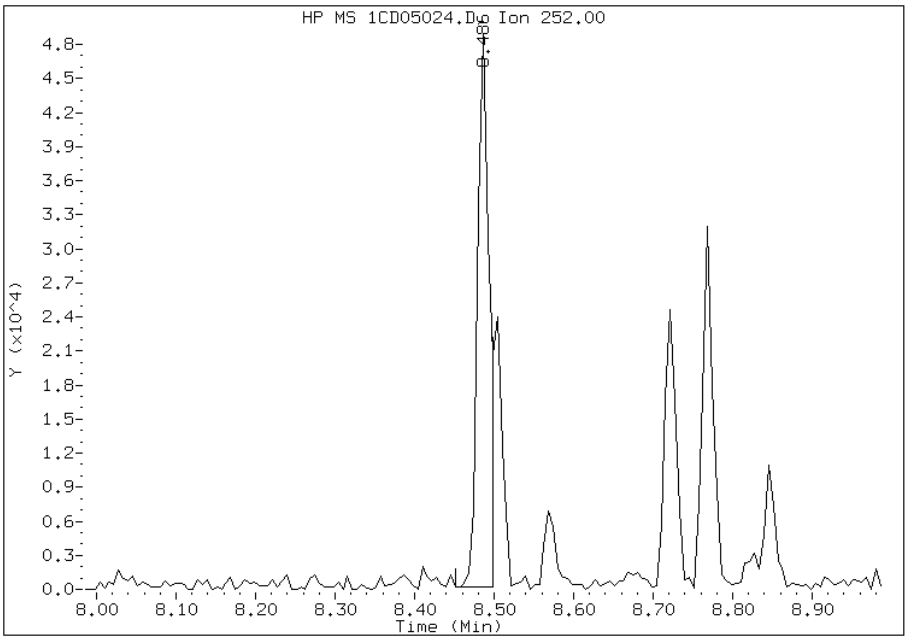
Manual Integration Results

RT: 8.49

Response: 50045

Amount: 2

Conc: 194



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:32
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD05024.D
Inj. Date and Time: 05-APR-2013 18:28
Instrument ID: BSMC5973.i
Client ID: CV0509FF-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/09/2013

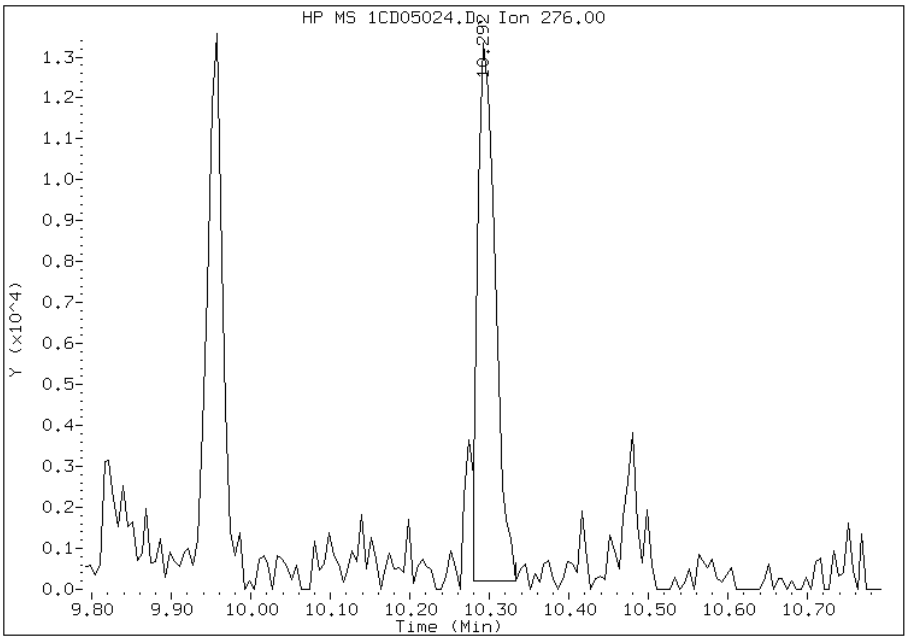
Processing Integration Results

RT: 10.29

Response: 20195

Amount: 1

Conc: 86



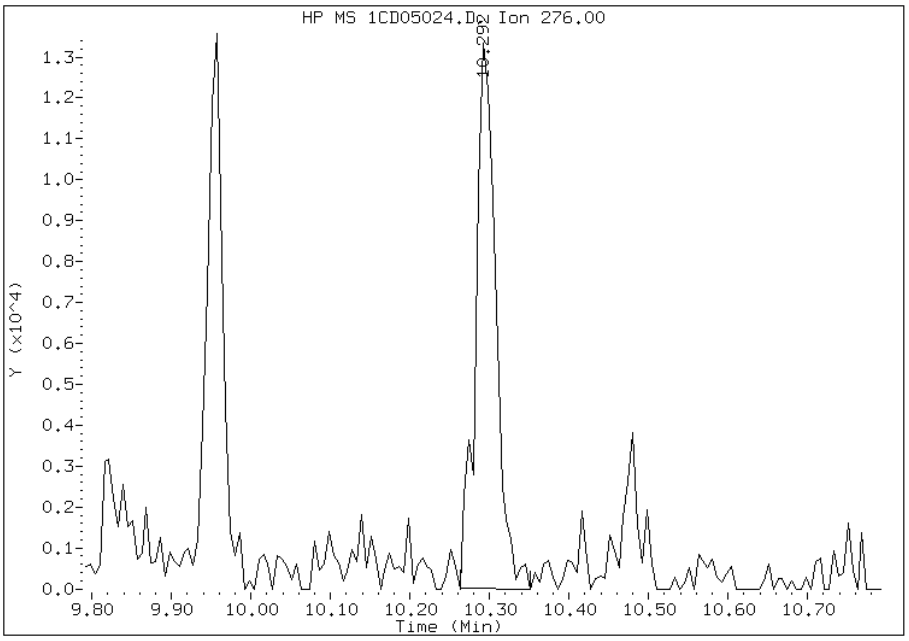
Manual Integration Results

RT: 10.29

Response: 23372

Amount: 1

Conc: 99



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:33
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD05024.D
Inj. Date and Time: 05-APR-2013 18:28
Instrument ID: BSMC5973.i
Client ID: CV0509FF-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/09/2013

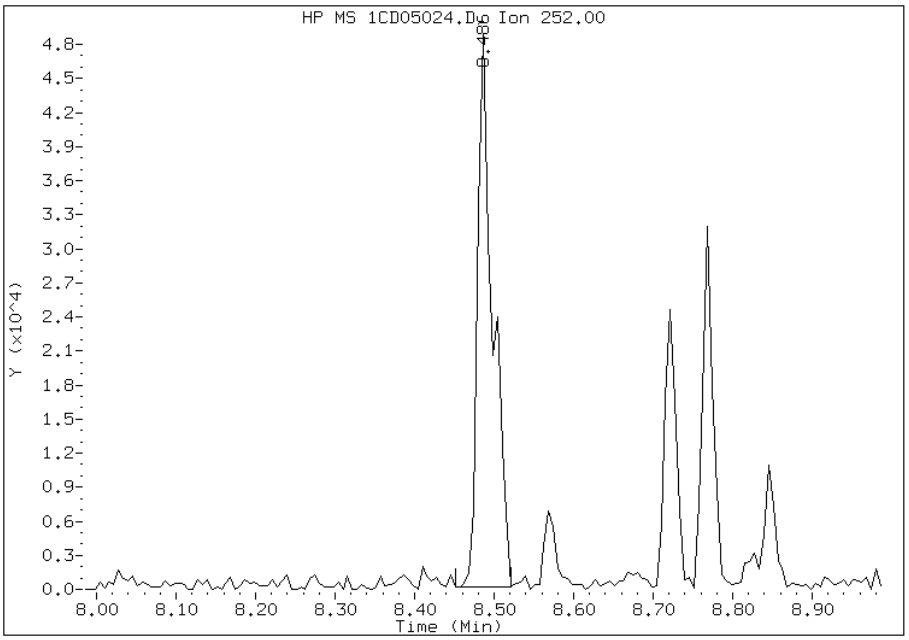
Processing Integration Results

RT: 8.49

Response: 65171

Amount: 3

Conc: 261



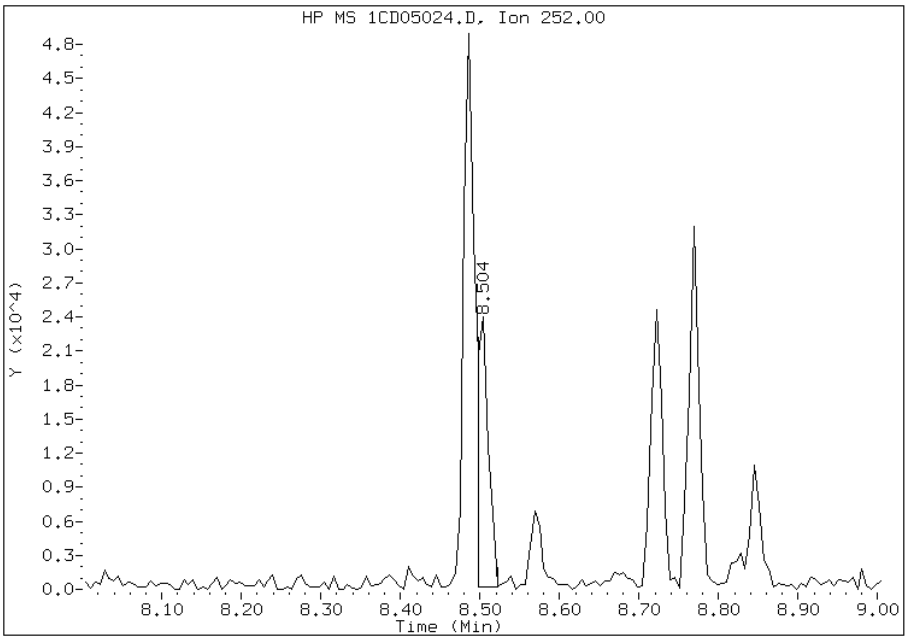
Manual Integration Results

RT: 8.50

Response: 22277

Amount: 1

Conc: 89



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:32
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD05024.D
Inj. Date and Time: 05-APR-2013 18:28
Instrument ID: BSMC5973.i
Client ID: CV0509FF-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

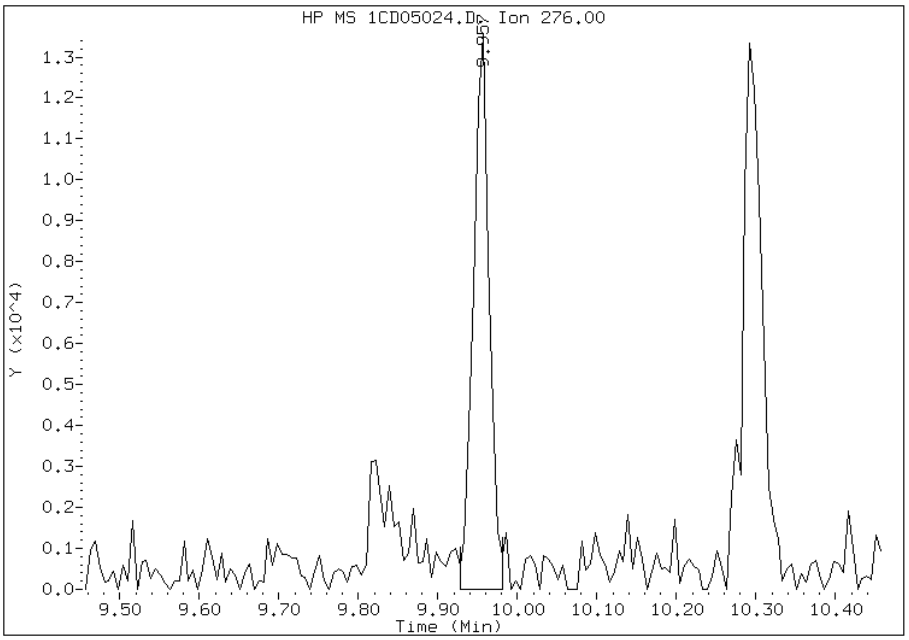
Processing Integration Results

RT: 9.96

Response: 18786

Amount: 1

Conc: 81



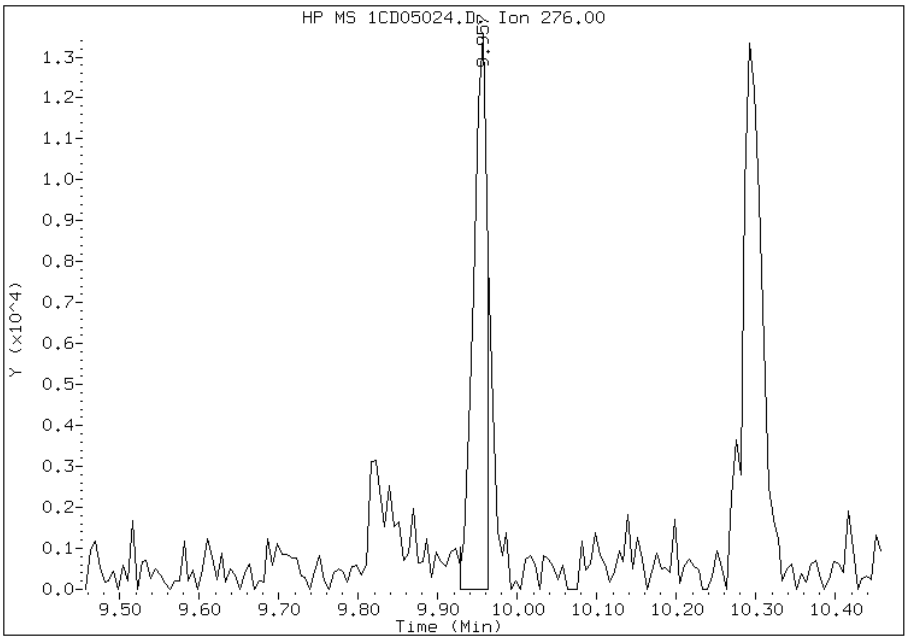
Manual Integration Results

RT: 9.96

Response: 16428

Amount: 1

Conc: 71



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:33
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88767-3

SDG No.: 68088767-3

Client Sample ID: CV0509GG-CS | Lab Sample ID: 680-88767-44

Matrix: Solid | Lab File ID: 1CD05025.D

Analysis Method: 8270C LL | Date Collected: 03/26/2013 15:20

Extract. Method: 3546 | Date Extracted: 04/03/2013 15:12

Sample wt/vol: 15.46(g) | Date Analyzed: 04/05/2013 18:47

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

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

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

Analysis Batch No.: 136171 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	460	U	460	91
208-96-8	Acenaphthylene	27	J	180	23
120-12-7	Anthracene	40		38	19
56-55-3	Benzo[a]anthracene	350		37	18
50-32-8	Benzo[a]pyrene	300		47	24
205-99-2	Benzo[b]fluoranthene	490		56	28
191-24-2	Benzo[g,h,i]perylene	280		91	20
207-08-9	Benzo[k]fluoranthene	230		37	16
218-01-9	Chrysene	360		41	21
53-70-3	Dibenz(a,h)anthracene	68	J	91	19
206-44-0	Fluoranthene	390		91	18
86-73-7	Fluorene	23	J	91	19
193-39-5	Indeno[1,2,3-cd]pyrene	190		91	32
90-12-0	1-Methylnaphthalene	83	J	180	20
91-57-6	2-Methylnaphthalene	69	J	180	32
91-20-3	Naphthalene	79	J	180	20
85-01-8	Phenanthrene	230		37	18
129-00-0	Pyrene	360		91	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	91		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05025.D
Lab Smp Id: 680-88767-A-44-A Client Smp ID: CV0509GG-CS
Inj Date : 05-APR-2013 18:47
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88767-a-44-a
Misc Info : 680-88767-A-44-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m
Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 24
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	15.460	Weight Extracted
M	15.009	% 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	3.692	3.692	(1.000)	551325	40.0000	
* 6 Acenaphthene-d10	164	4.780	4.780	(1.000)	431997	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	789573	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	19884	2.26824	690.5085
* 18 Chrysene-d12	240	7.657	7.662	(1.000)	867109	40.0000	
* 23 Perylene-d12	264	8.827	8.827	(1.000)	825369	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	3686	0.26030	79.2412(Q)
3 2-Methylnaphthalene	142	4.133	4.133	(1.119)	2170	0.22512	68.5313(Q)
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	2351	0.27105	82.5152
5 Acenaphthylene	152	4.692	4.692	(0.982)	1611	0.09010	27.4299
9 Fluorene	166	5.121	5.116	(1.071)	1115	0.07553	22.9928(Q)
11 Phenanthrene	178	5.739	5.739	(1.003)	17737	0.77131	234.8046
12 Anthracene	178	5.774	5.774	(1.009)	3087	0.13243	40.3135
13 Carbazole	167	5.880	5.880	(1.028)	2343	0.11732	35.7137

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.568	6.574	(1.148)	32415	1.27637	388.5584
16 Pyrene	202	6.739	6.739	(0.880)	28629	1.19190	362.8441
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	25621	1.15539	351.7299
19 Chrysene	228	7.674	7.680	(1.002)	29280	1.18500	360.7435
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	37391	1.60243	487.8200(M)
21 Benzo(k)fluoranthene	252	8.498	8.509	(0.963)	17187	0.76156	231.8383(M)
22 Benzo(a)pyrene	252	8.768	8.774	(0.993)	21884	0.99616	303.2561
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.962	(1.128)	12706	0.60894	185.3765(M)
25 Dibenzo(a,h)anthracene	278	9.968	9.980	(1.129)	4274	0.22174	67.5024
26 Benzo(g,h,i)perylene	276	10.303	10.303	(1.167)	19660	0.92318	281.0384

QC Flag Legend

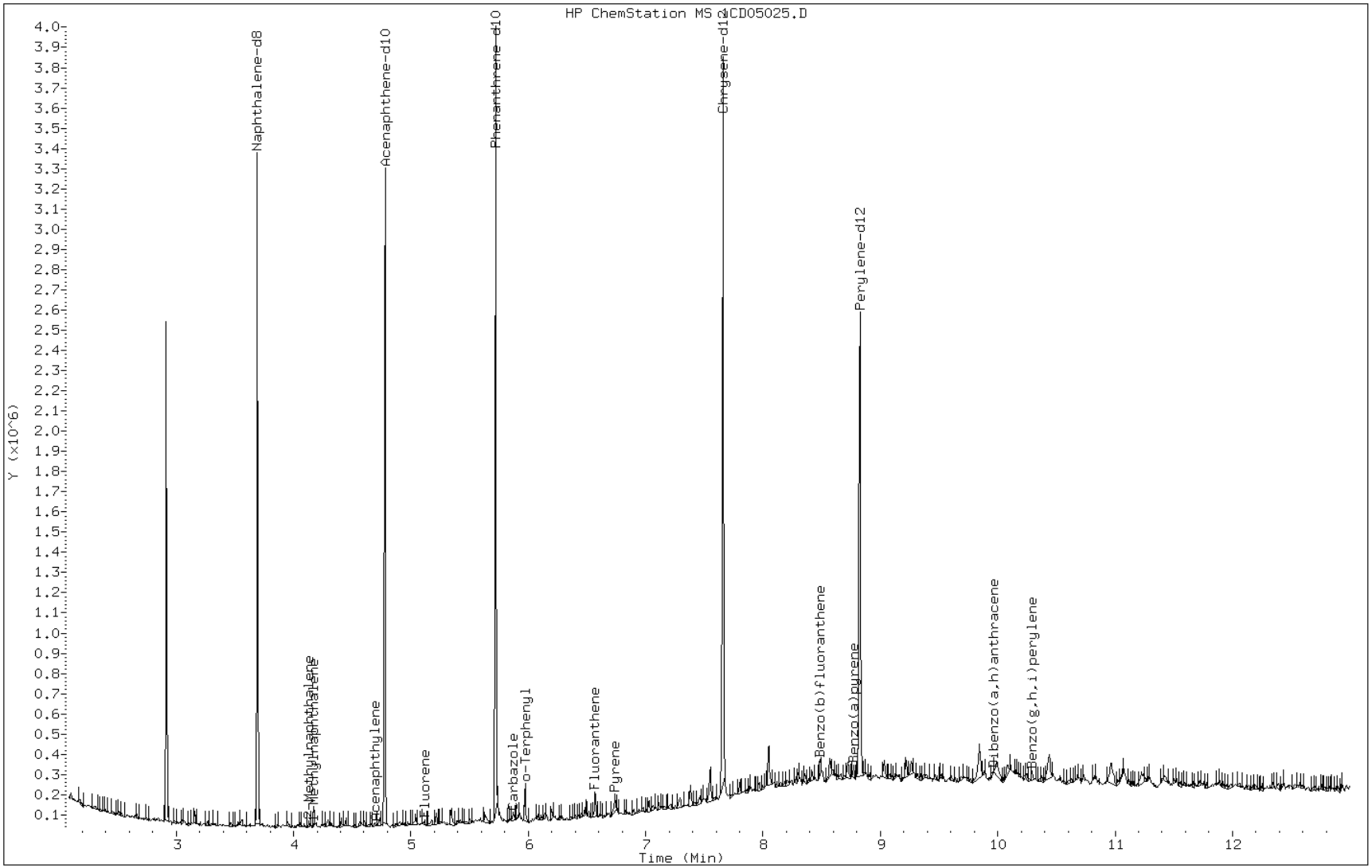
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD05025.D

Date: 05-APR-2013 18:47

Client ID: CV0509GG-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-44-a Operator: SCC



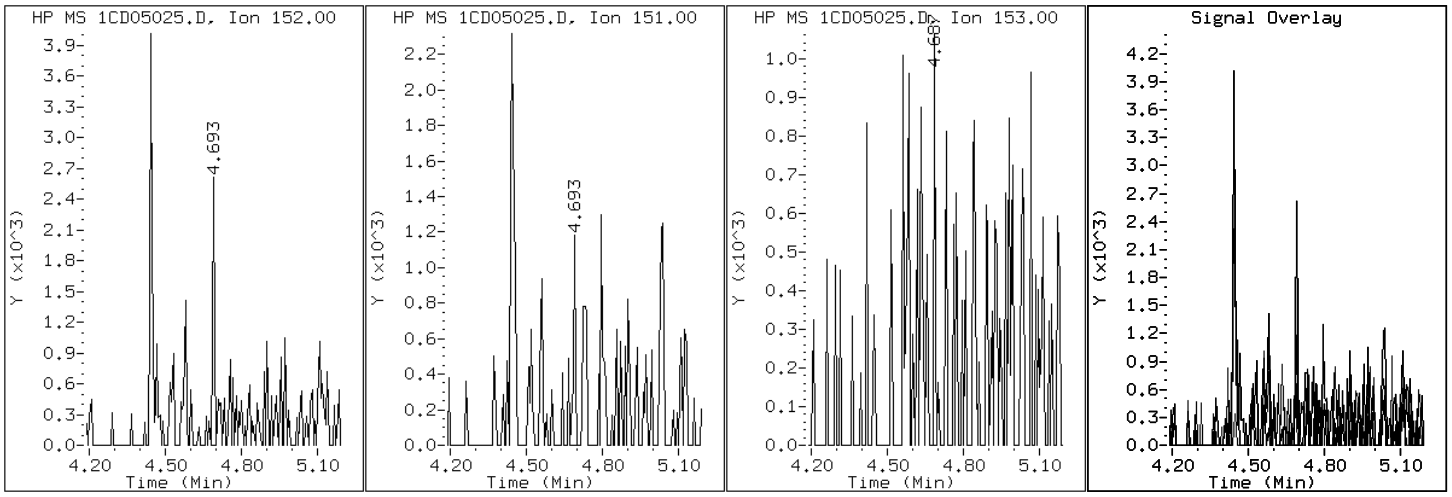
Data File: 1CD05025.D

Date: 05-APR-2013 18:47

Client ID: CV0509GG-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-44-a Operator: SCC

5 Acenaphthylene



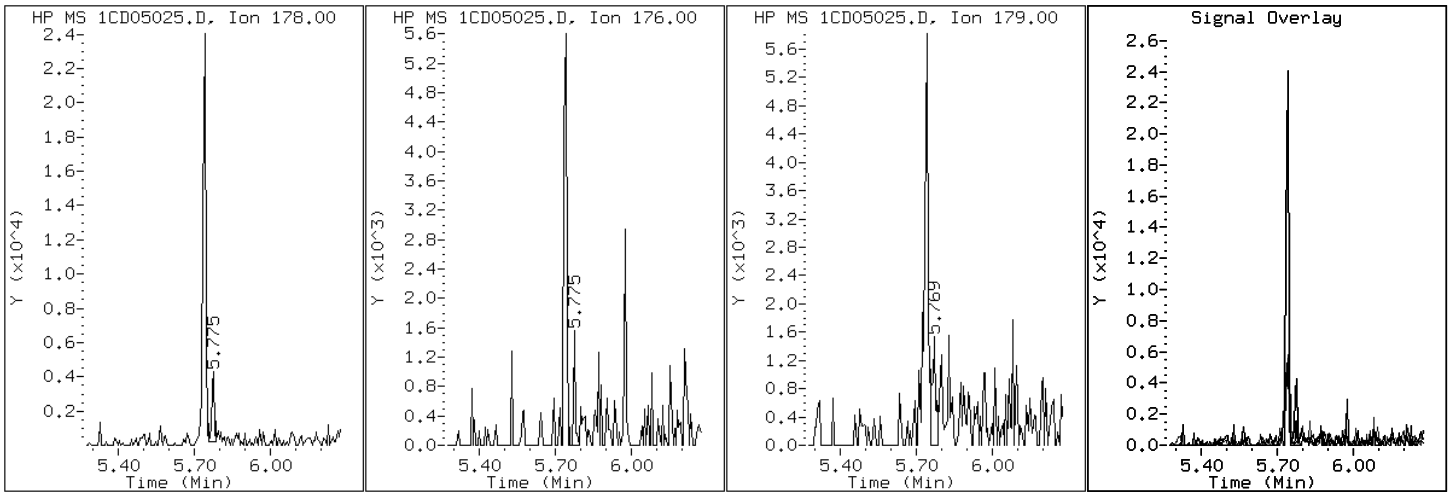
Data File: 1CD05025.D

Date: 05-APR-2013 18:47

Client ID: CV0509GG-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-44-a Operator: SCC

12 Anthracene



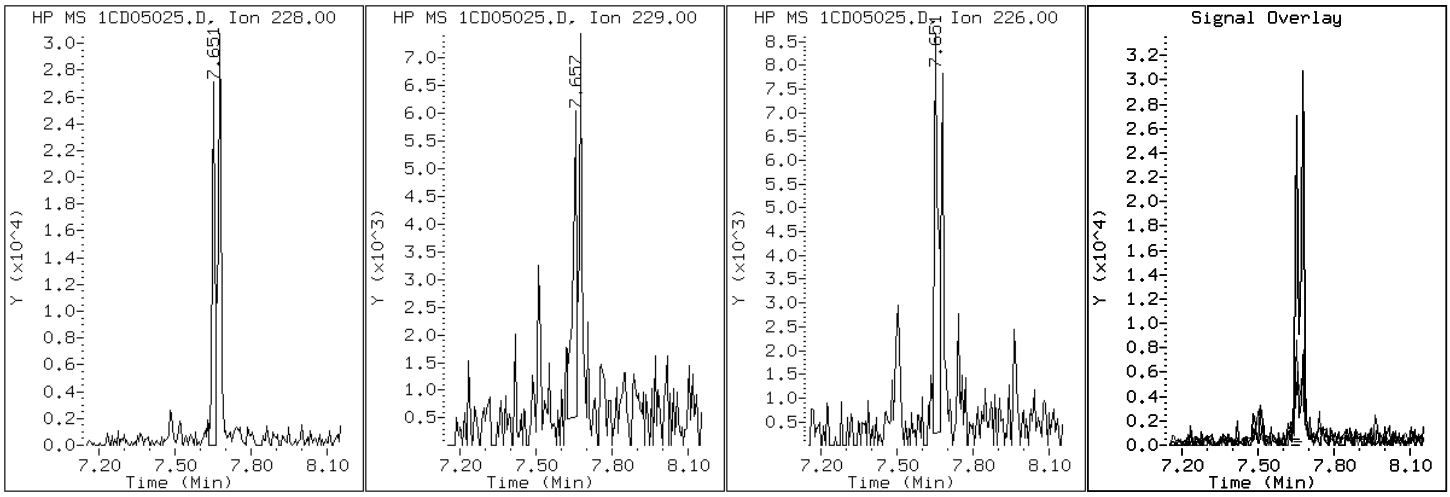
Data File: 1CD05025.D

Date: 05-APR-2013 18:47

Client ID: CV0509GG-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-44-a Operator: SCC

17 Benzo(a)anthracene



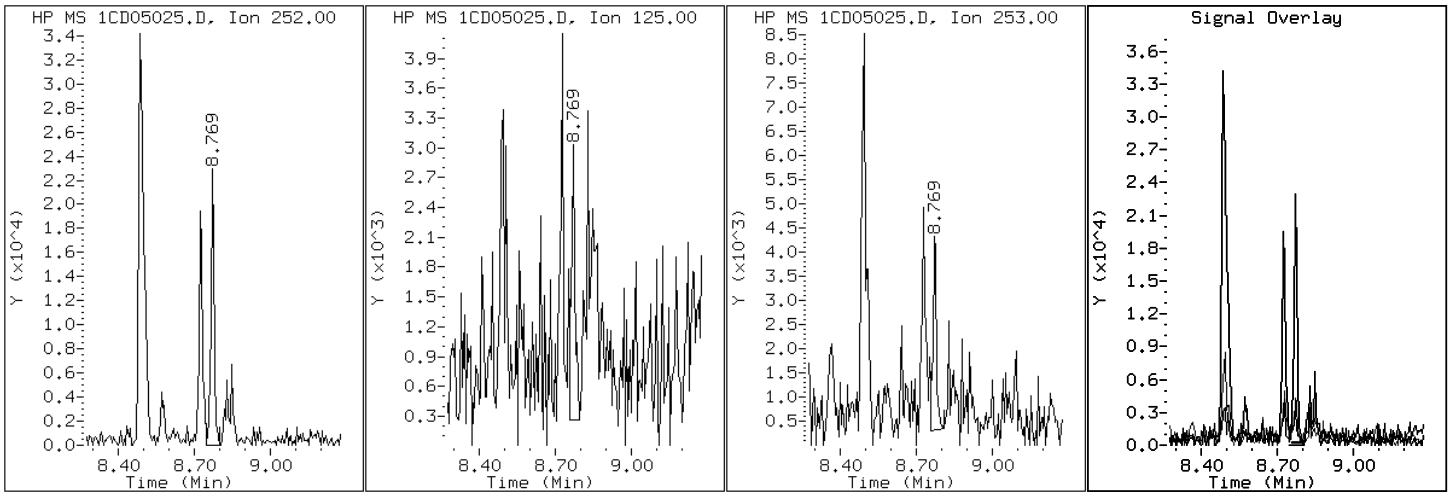
Data File: 1CD05025.D

Date: 05-APR-2013 18:47

Client ID: CV0509GG-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-44-a Operator: SCC

22 Benzo(a)pyrene



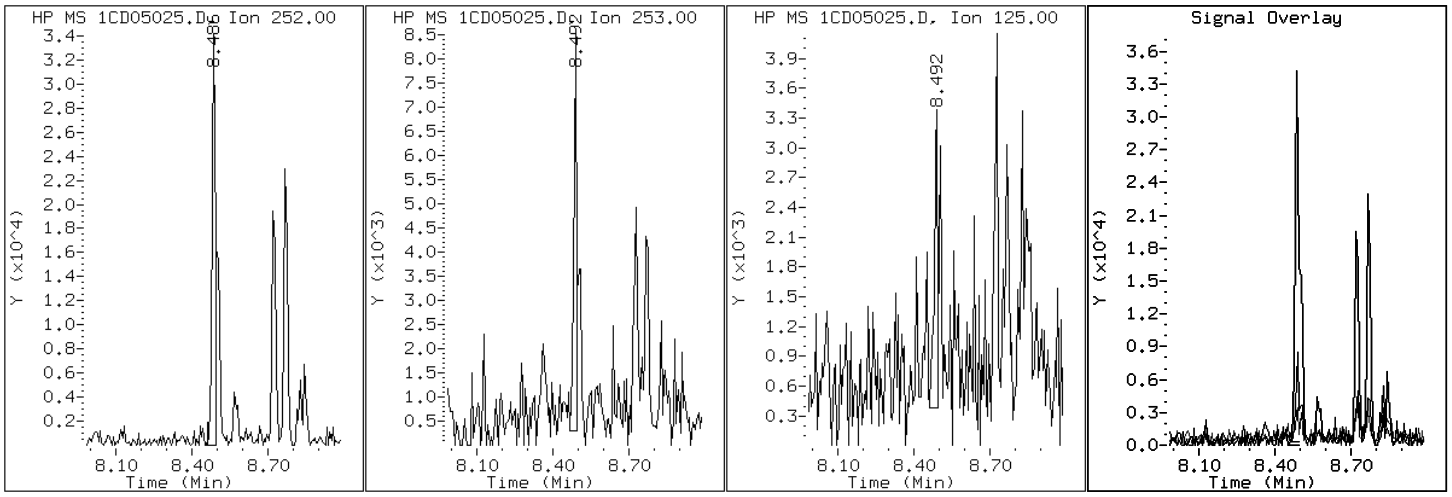
Data File: 1CD05025.D

Date: 05-APR-2013 18:47

Client ID: CV0509GG-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-44-a Operator: SCC

20 Benzo(b)fluoranthene



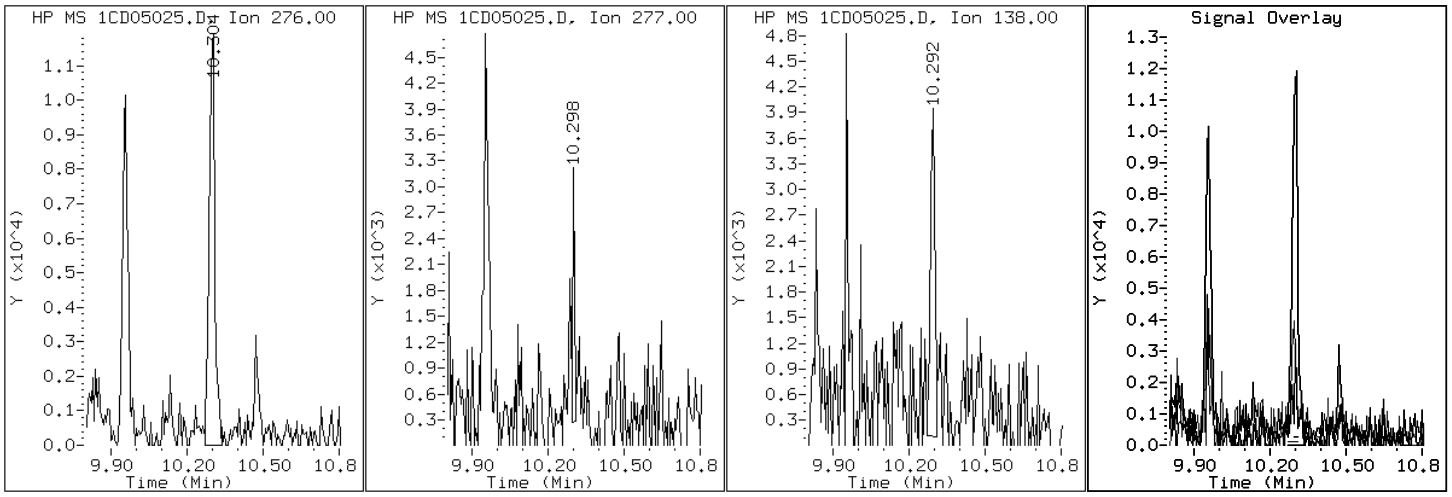
Data File: 1CD05025.D

Date: 05-APR-2013 18:47

Client ID: CV0509GG-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-44-a Operator: SCC

26 Benzo(g,h,i)perylene



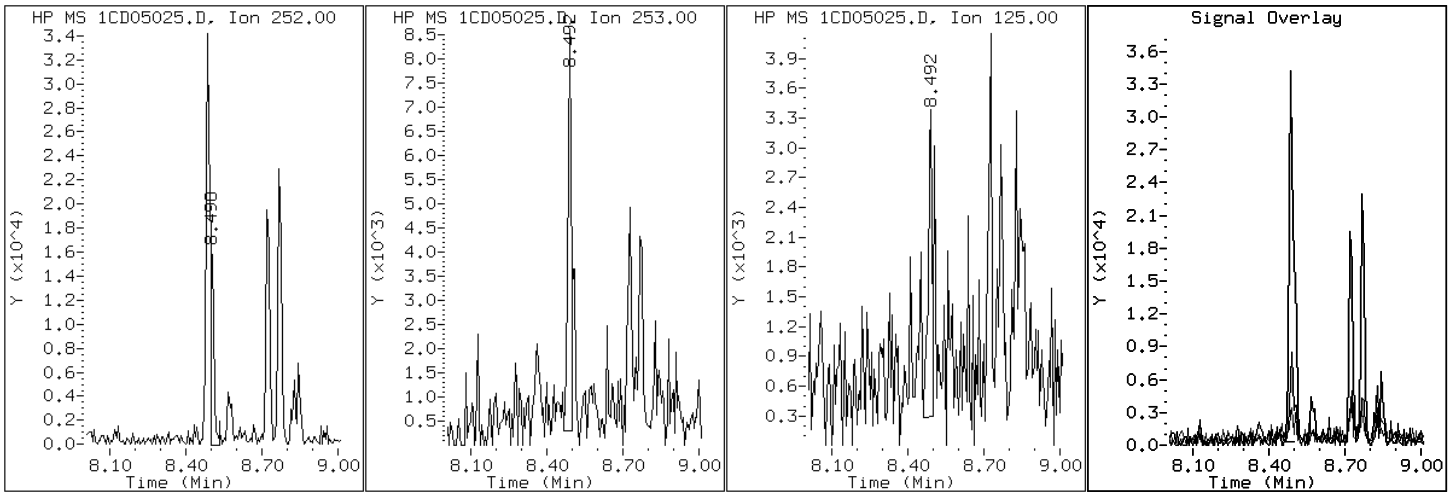
Data File: 1CD05025.D

Date: 05-APR-2013 18:47

Client ID: CV0509GG-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-44-a Operator: SCC

21 Benzo(k)fluoranthene



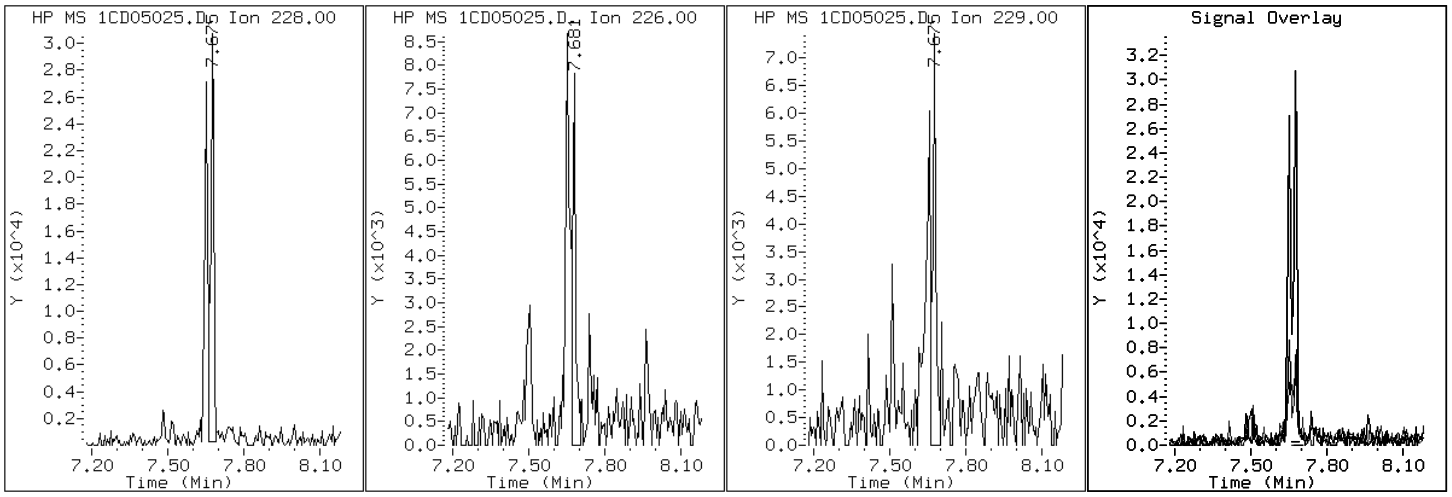
Data File: 1CD05025.D

Date: 05-APR-2013 18:47

Client ID: CV0509GG-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-44-a Operator: SCC

19 Chrysene



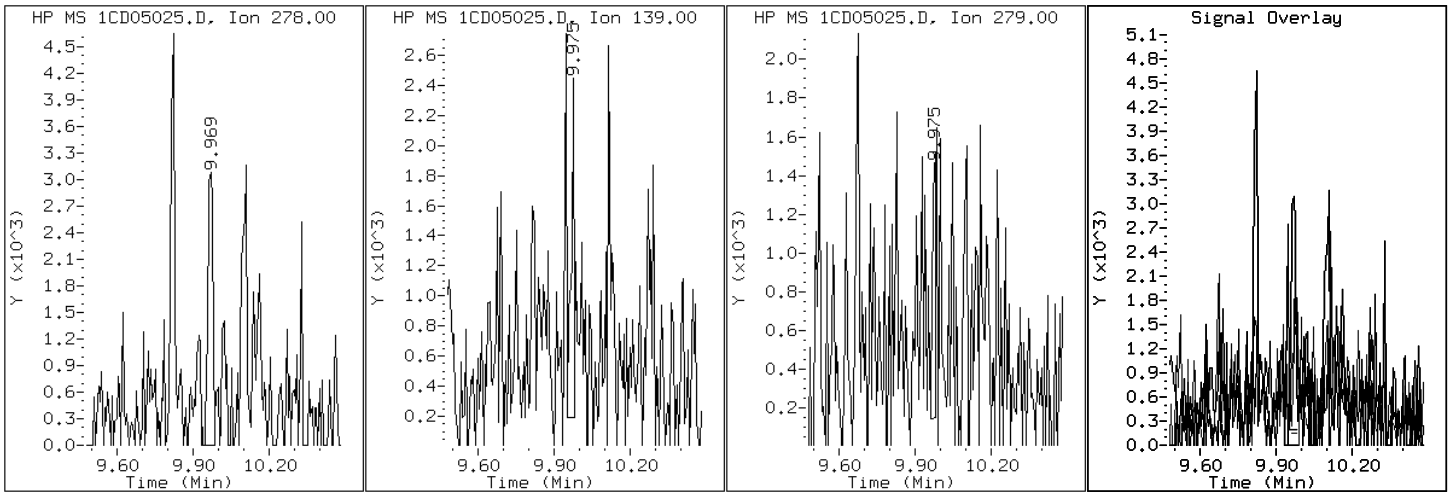
Data File: 1CD05025.D

Date: 05-APR-2013 18:47

Client ID: CV0509GG-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-44-a Operator: SCC

25 Dibenzo(a,h)anthracene



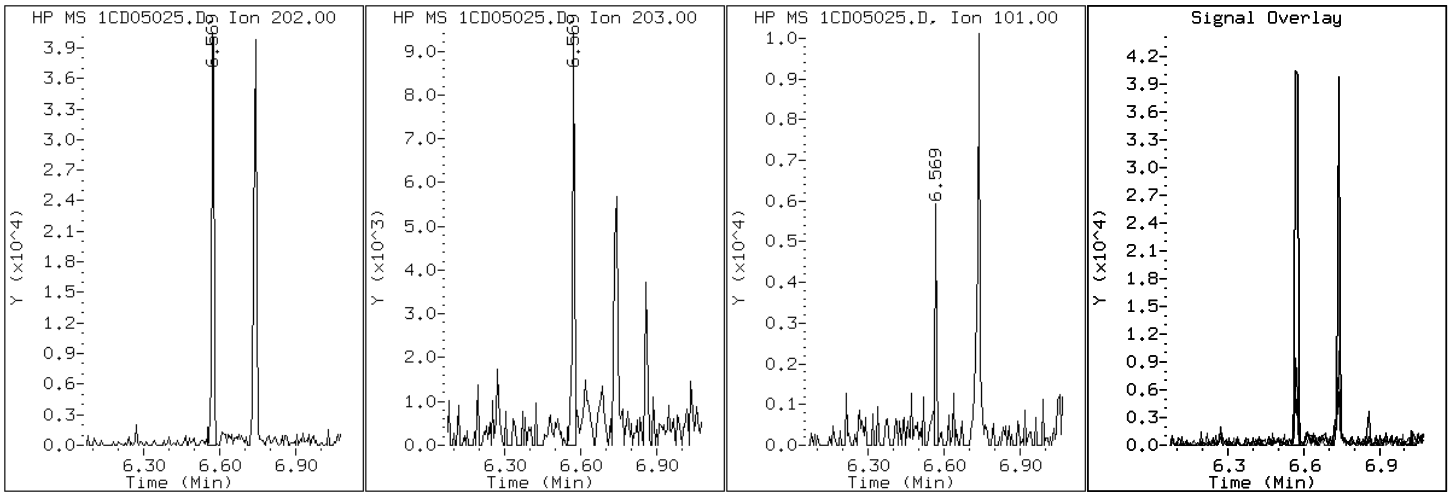
Data File: 1CD05025.D

Date: 05-APR-2013 18:47

Client ID: CV0509GG-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-44-a Operator: SCC

15 Fluoranthene



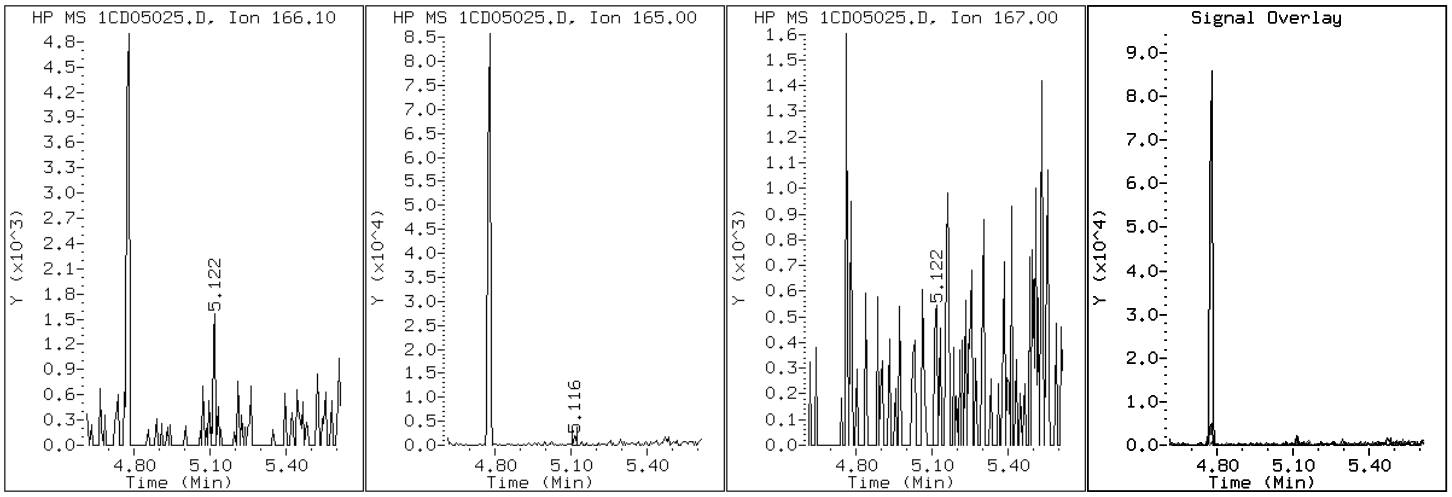
Data File: 1CD05025.D

Date: 05-APR-2013 18:47

Client ID: CV0509GG-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-44-a Operator: SCC

9 Fluorene



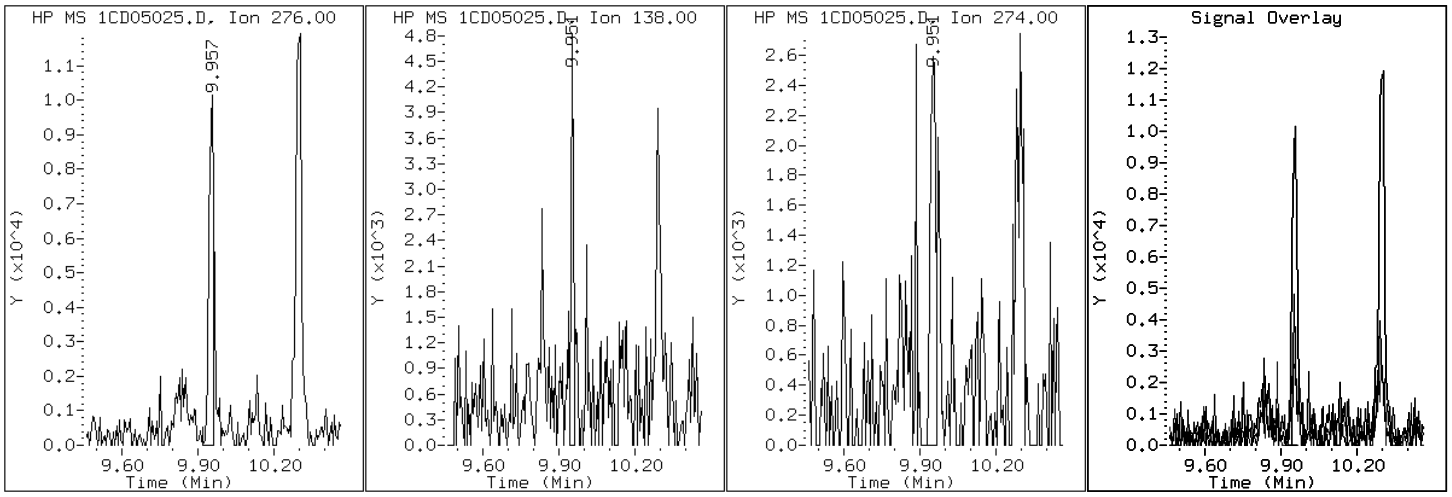
Data File: 1CD05025.D

Date: 05-APR-2013 18:47

Client ID: CV0509GG-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-44-a Operator: SCC

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



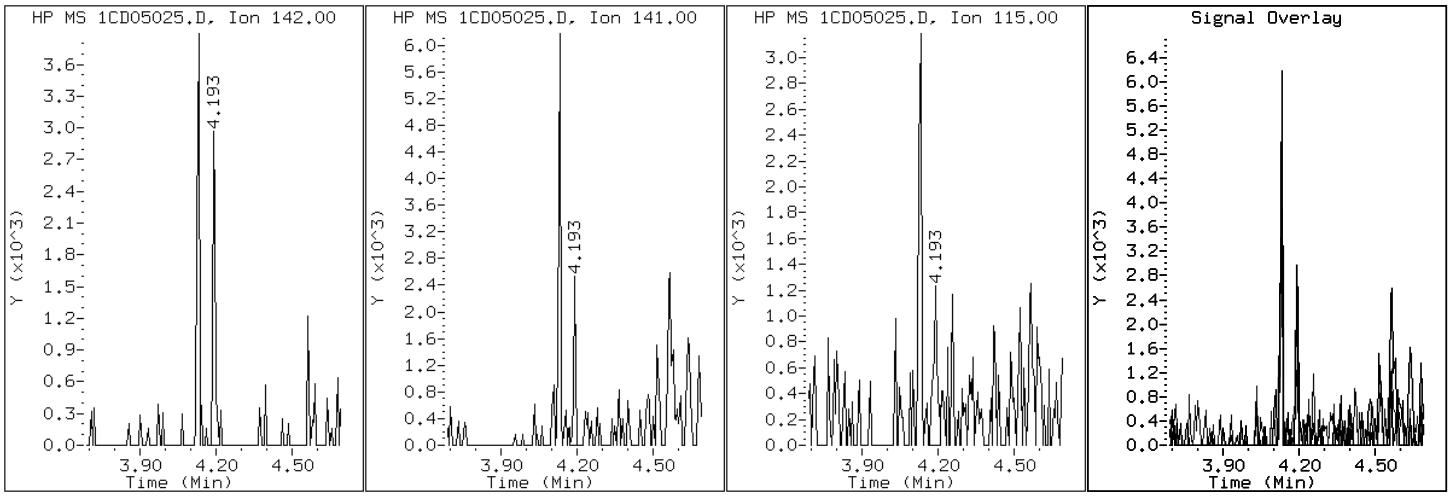
Data File: 1CD05025.D

Date: 05-APR-2013 18:47

Client ID: CV0509GG-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-44-a Operator: SCC

4 1-Methylnaphthalene



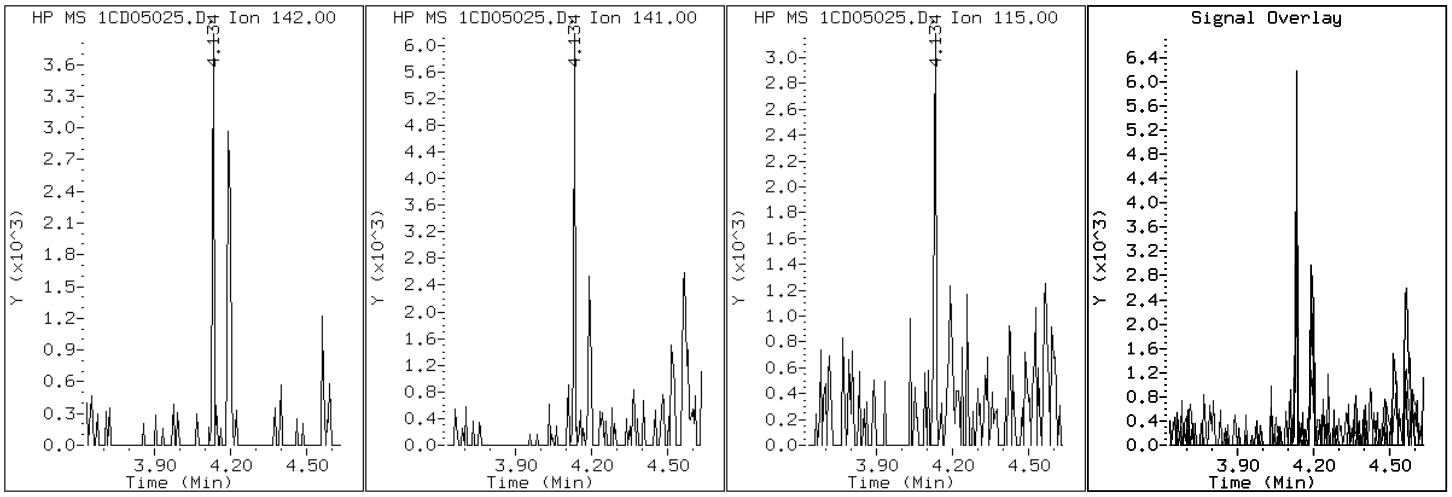
Data File: 1CD05025.D

Date: 05-APR-2013 18:47

Client ID: CV0509GG-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-44-a Operator: SCC

3 2-Methylnaphthalene



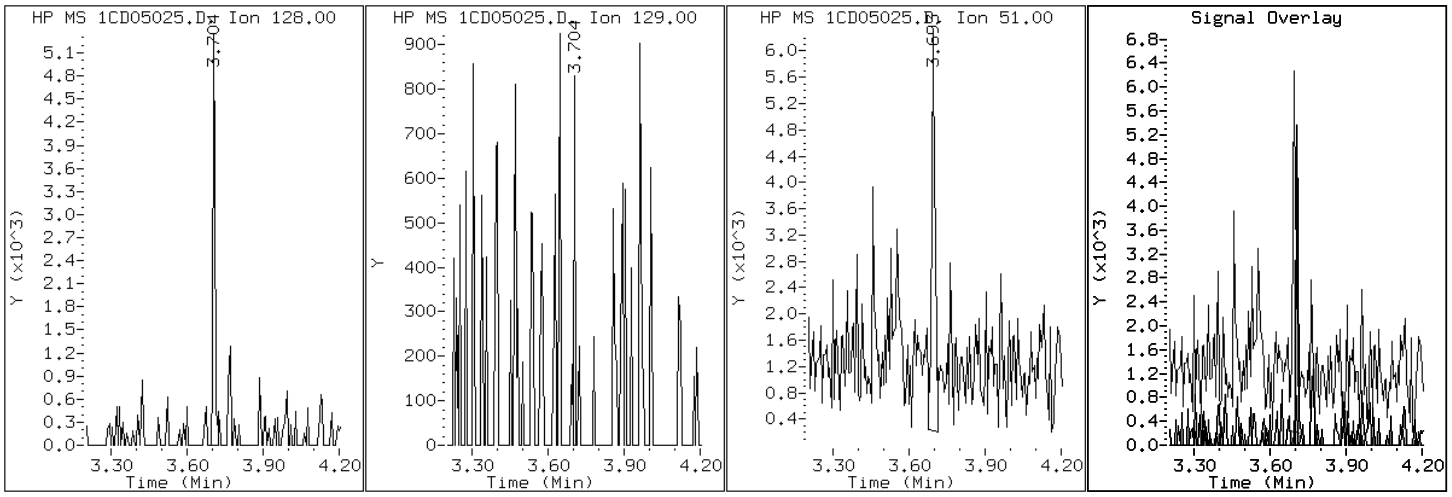
Data File: 1CD05025.D

Date: 05-APR-2013 18:47

Client ID: CV0509GG-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-44-a Operator: SCC

2 Naphthalene



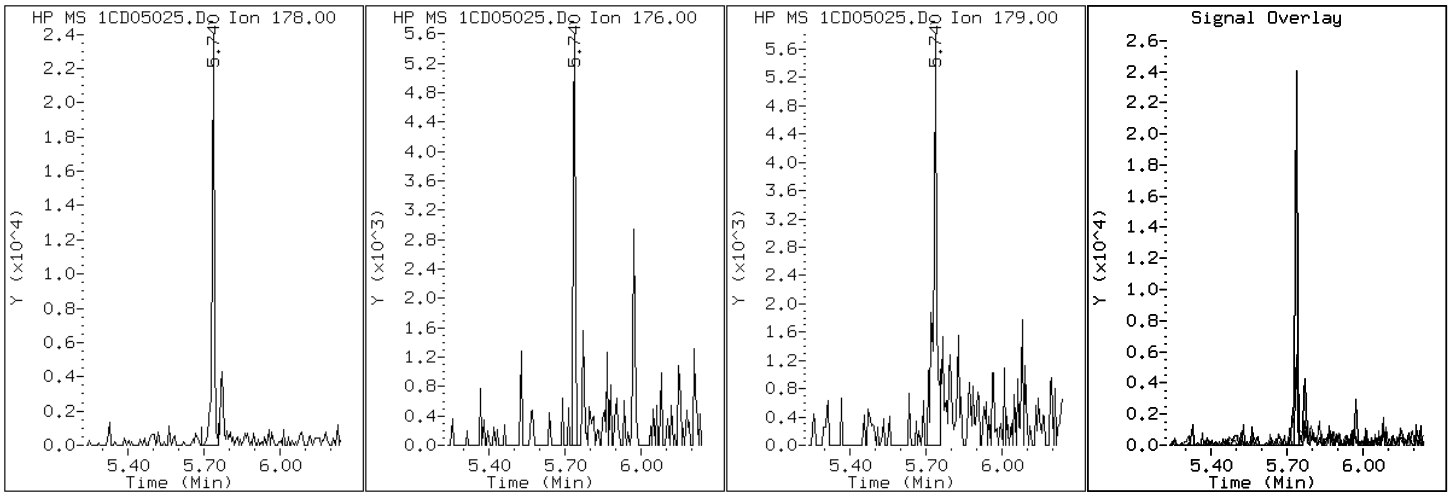
Data File: 1CD05025.D

Date: 05-APR-2013 18:47

Client ID: CV0509GG-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-44-a Operator: SCC

11 Phenanthrene



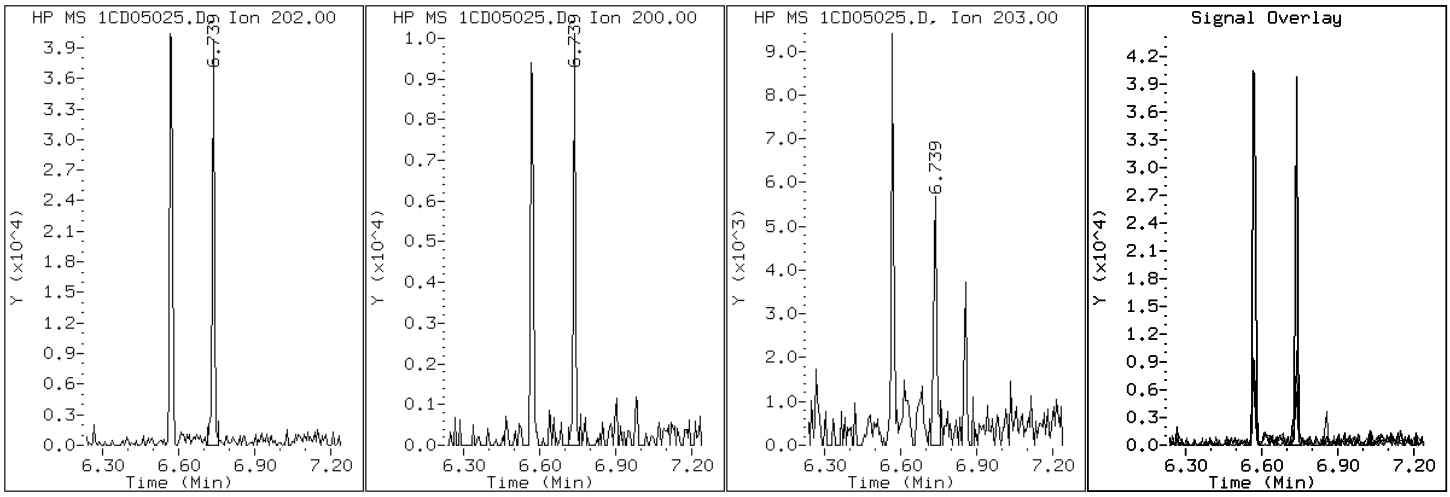
Data File: 1CD05025.D

Date: 05-APR-2013 18:47

Client ID: CV0509GG-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-44-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD05025.D
Inj. Date and Time: 05-APR-2013 18:47
Instrument ID: BSMC5973.i
Client ID: CV0509GG-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/09/2013

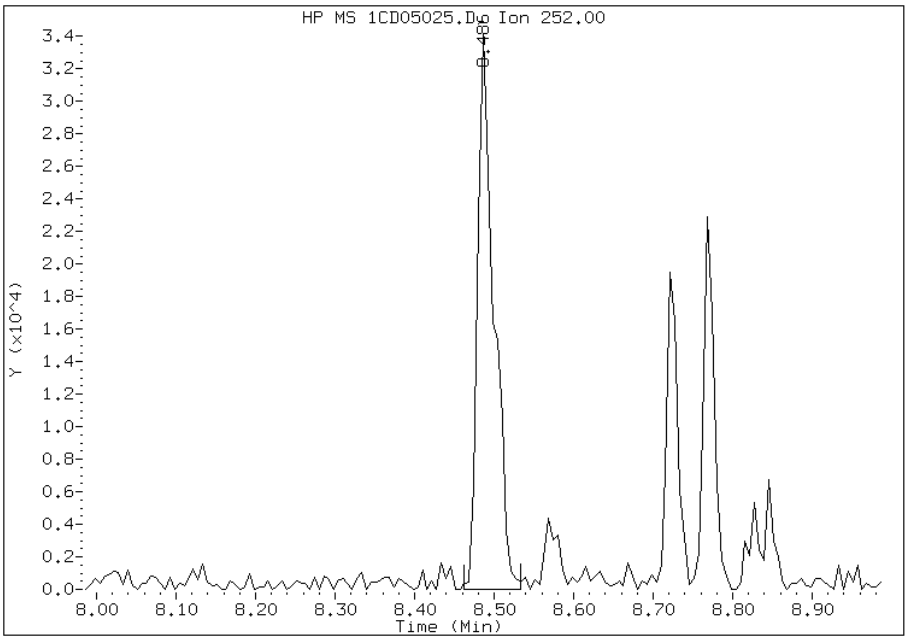
Processing Integration Results

RT: 8.49

Response: 48598

Amount: 2

Conc: 634



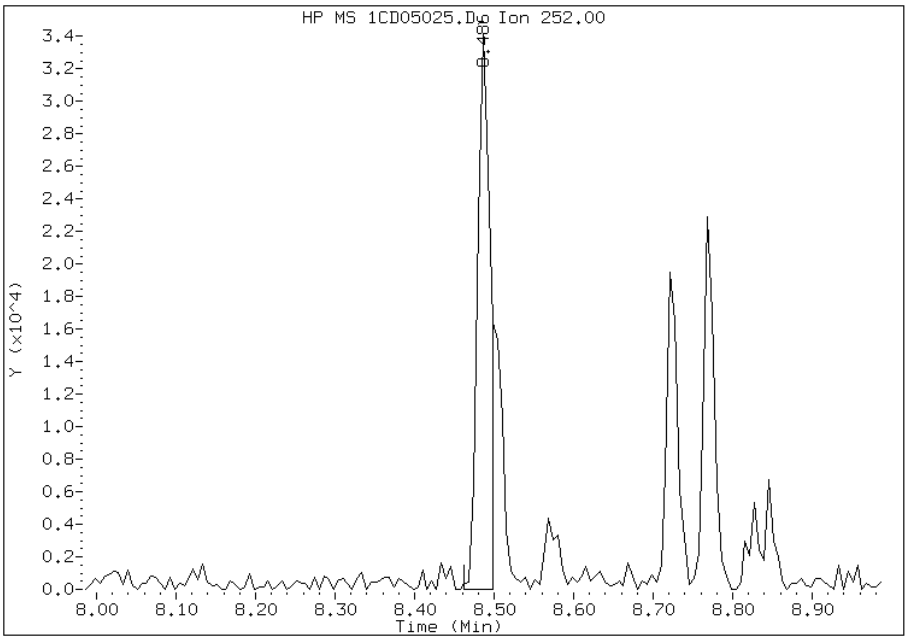
Manual Integration Results

RT: 8.49

Response: 37391

Amount: 2

Conc: 488



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:33
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD05025.D
Inj. Date and Time: 05-APR-2013 18:47
Instrument ID: BSMC5973.i
Client ID: CV0509GG-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/09/2013

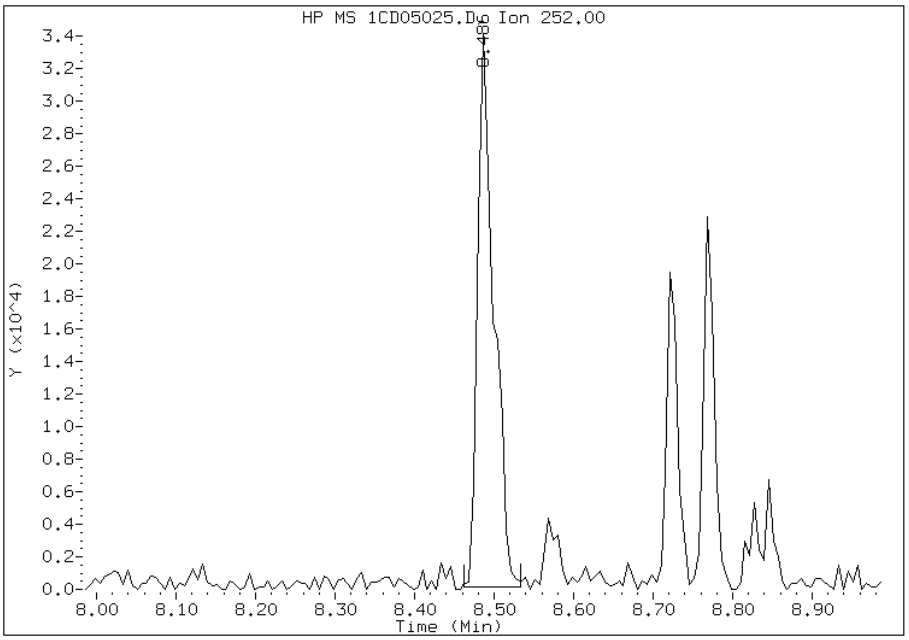
Processing Integration Results

RT: 8.49

Response: 48007

Amount: 2

Conc: 648



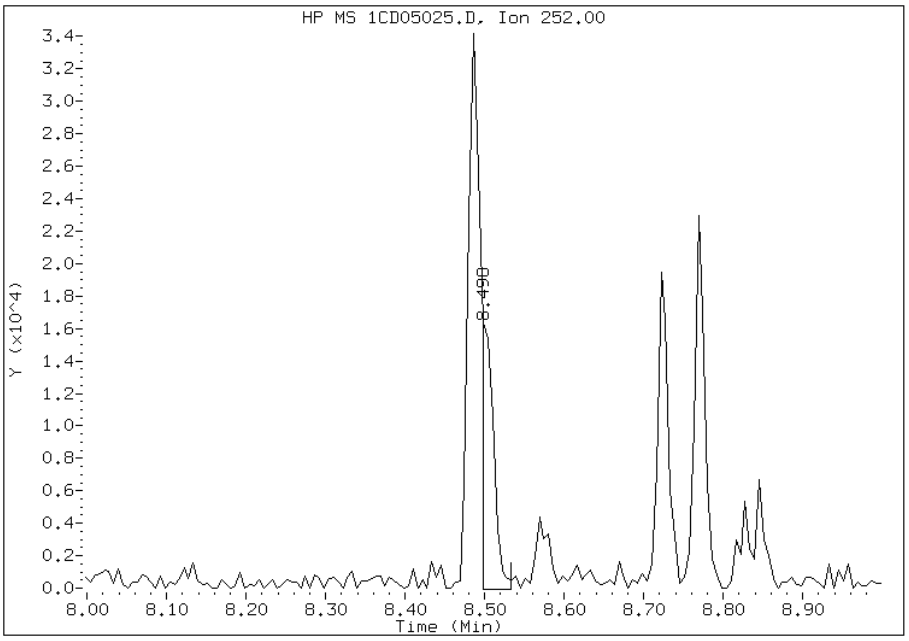
Manual Integration Results

RT: 8.50

Response: 17187

Amount: 1

Conc: 232



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:34
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD05025.D
Inj. Date and Time: 05-APR-2013 18:47
Instrument ID: BSMC5973.i
Client ID: CV0509GG-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

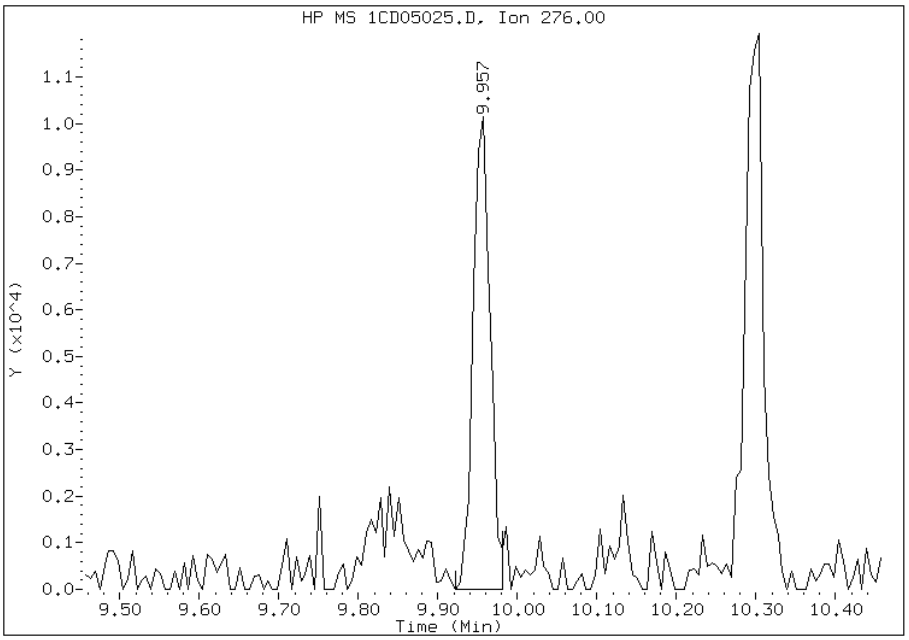
Processing Integration Results

RT: 9.96

Response: 14956

Amount: 1

Conc: 218



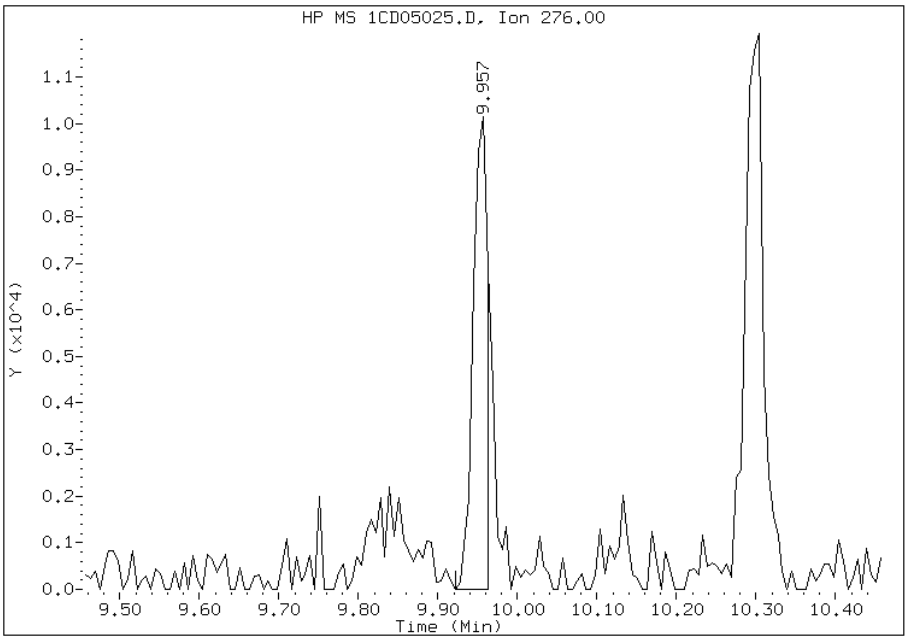
Manual Integration Results

RT: 9.96

Response: 12706

Amount: 1

Conc: 185



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88767-3

SDG No.: 68088767-3

Client Sample ID: CV0509HH-CS | Lab Sample ID: 680-88767-45

Matrix: Solid | Lab File ID: 1CD05026.D

Analysis Method: 8270C LL | Date Collected: 03/26/2013 15:30

Extract. Method: 3546 | Date Extracted: 04/03/2013 15:12

Sample wt/vol: 14.98(g) | Date Analyzed: 04/05/2013 19:05

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

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

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

Analysis Batch No.: 136171 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	98	J	120	24
208-96-8	Acenaphthylene	25	J	47	5.9
120-12-7	Anthracene	250		9.9	5.0
56-55-3	Benzo[a]anthracene	760		9.4	4.6
50-32-8	Benzo[a]pyrene	610		12	6.1
205-99-2	Benzo[b]fluoranthene	890		14	7.2
191-24-2	Benzo[g,h,i]perylene	400		24	5.2
207-08-9	Benzo[k]fluoranthene	490		9.4	4.2
218-01-9	Chrysene	700		11	5.3
53-70-3	Dibenz(a,h)anthracene	130		24	4.8
206-44-0	Fluoranthene	1700		24	4.7
86-73-7	Fluorene	100		24	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	360		24	8.4
90-12-0	1-Methylnaphthalene	60		47	5.2
91-57-6	2-Methylnaphthalene	70		47	8.4
91-20-3	Naphthalene	89		47	5.2
85-01-8	Phenanthrene	1200		9.4	4.6
129-00-0	Pyrene	1400		24	4.4

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05026.D
Lab Smp Id: 680-88767-A-45-A Client Smp ID: CV0509HH-CS
Inj Date : 05-APR-2013 19:05
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88767-a-45-a
Misc Info : 680-88767-A-45-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m
Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	15.165	% 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	3.692	3.692	(1.000)	575307	40.0000	
* 6 Acenaphthene-d10	164	4.780	4.780	(1.000)	433741	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	817894	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	72214	6.13467	482.7291
* 18 Chrysene-d12	240	7.657	7.662	(1.000)	921566	40.0000	
* 23 Perylene-d12	264	8.827	8.827	(1.000)	879198	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	16717	1.13131	89.0215
3 2-Methylnaphthalene	142	4.133	4.133	(1.119)	8946	0.88938	69.9841
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	6885	0.76070	59.8585
5 Acenaphthylene	152	4.692	4.692	(0.982)	5727	0.31903	25.1037
7 Acenaphthene	154	4.798	4.798	(1.004)	13913	1.25133	98.4654
9 Fluorene	166	5.116	5.116	(1.070)	19395	1.30851	102.9652
11 Phenanthrene	178	5.739	5.739	(1.003)	354250	14.8714	1170.2118
12 Anthracene	178	5.769	5.774	(1.008)	76276	3.15877	248.5594

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	40442	1.95484	153.8237
15 Fluoranthene	202	6.574	6.574	(1.149)	574963	21.8558	1719.8012
16 Pyrene	202	6.739	6.739	(0.880)	443831	17.3860	1368.0804
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	255863	9.71769	764.6720
19 Chrysene	228	7.680	7.680	(1.003)	233548	8.89347	699.8158
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	280195	11.2729	887.0481(M)
21 Benzo(k)fluoranthene	252	8.498	8.509	(0.963)	150750	6.27082	493.4427(M)
22 Benzo(a)pyrene	252	8.768	8.774	(0.993)	181290	7.74709	609.6085
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.962	(1.128)	101461	4.56486	359.2025(M)
25 Dibenzo(a,h)anthracene	278	9.968	9.980	(1.129)	33547	1.63388	128.5679
26 Benzo(g,h,i)perylene	276	10.298	10.303	(1.167)	116191	5.12197	403.0407

QC Flag Legend

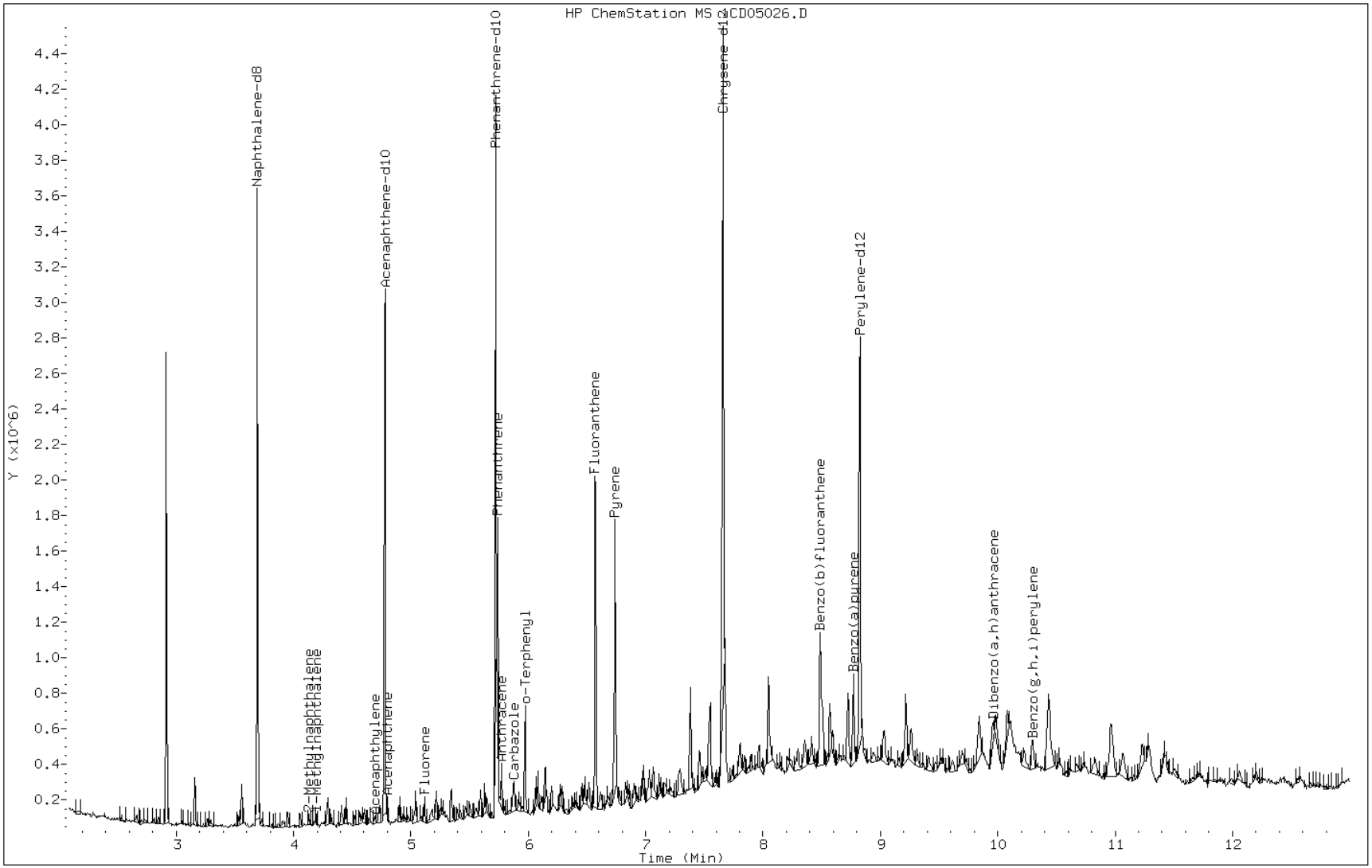
M - Compound response manually integrated.

Data File: 1CD05026.D

Date: 05-APR-2013 19:05

Client ID: CV0509HH-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-45-a Operator: SCC



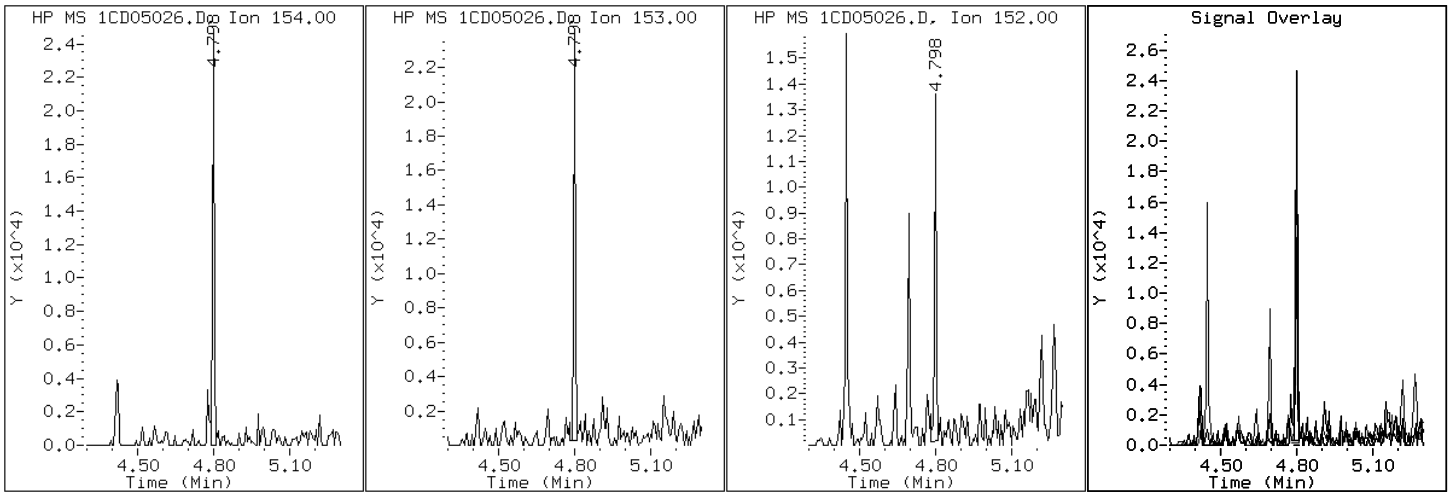
Data File: 1CD05026.D

Date: 05-APR-2013 19:05

Client ID: CV0509HH-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-45-a Operator: SCC

7 Acenaphthene



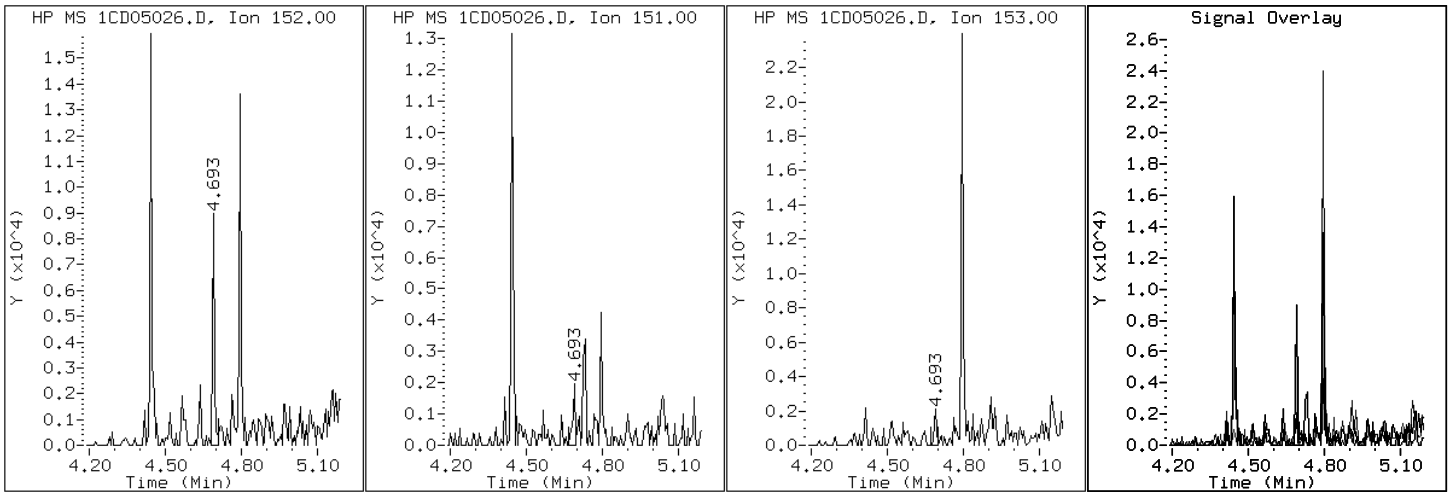
Data File: 1CD05026.D

Date: 05-APR-2013 19:05

Client ID: CV0509HH-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-45-a Operator: SCC

5 Acenaphthylene



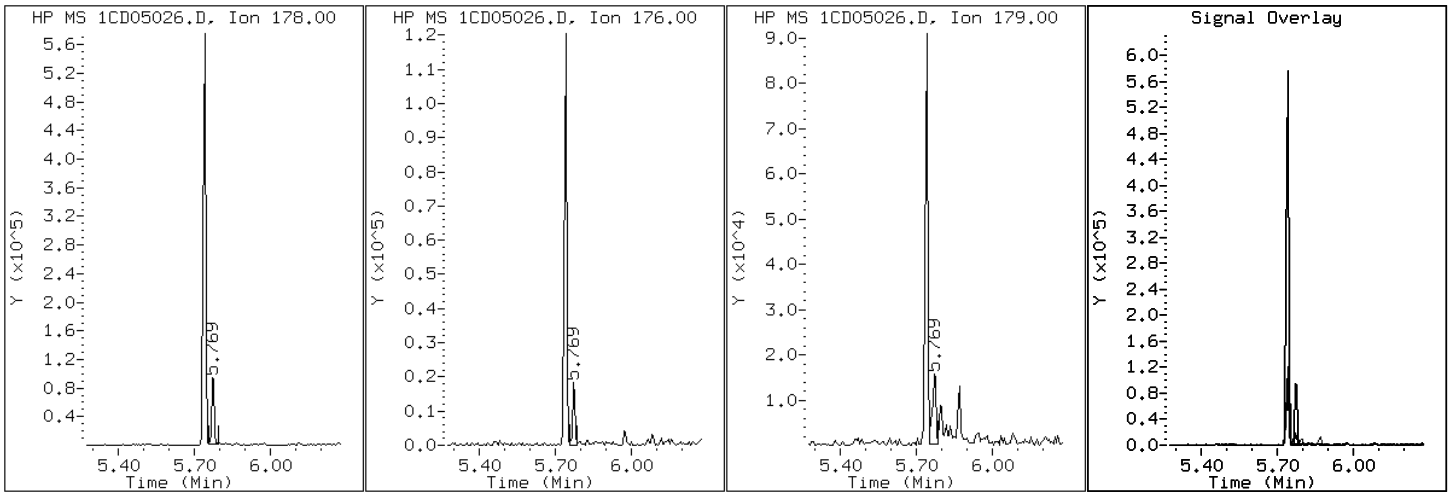
Data File: 1CD05026.D

Date: 05-APR-2013 19:05

Client ID: CV0509HH-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-45-a Operator: SCC

12 Anthracene



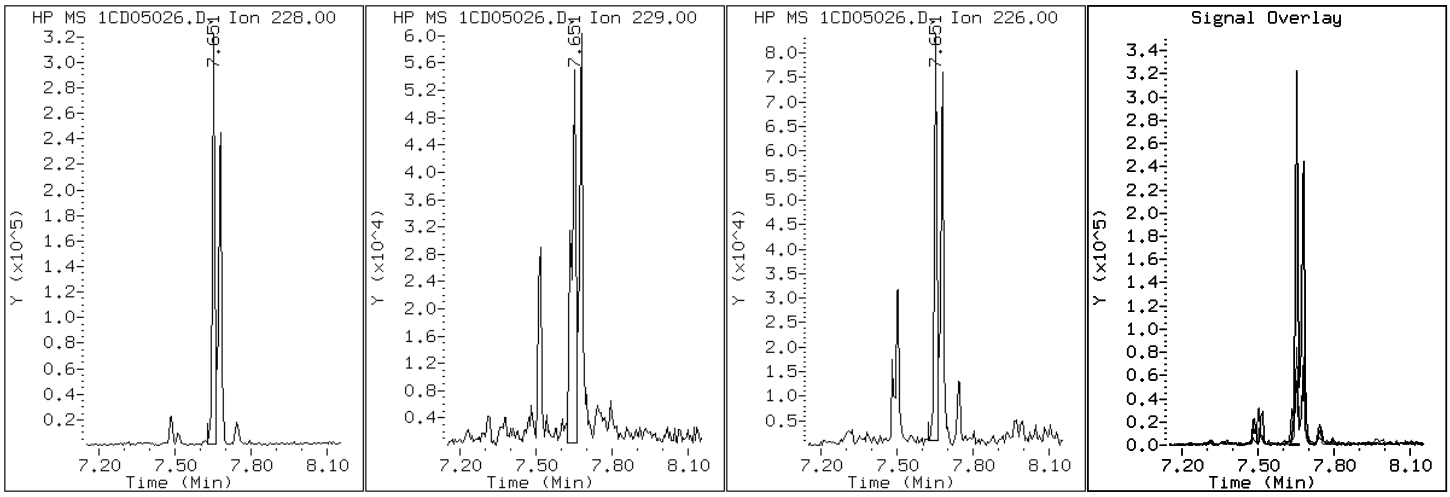
Data File: 1CD05026.D

Date: 05-APR-2013 19:05

Client ID: CV0509HH-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-45-a Operator: SCC

17 Benzo(a)anthracene



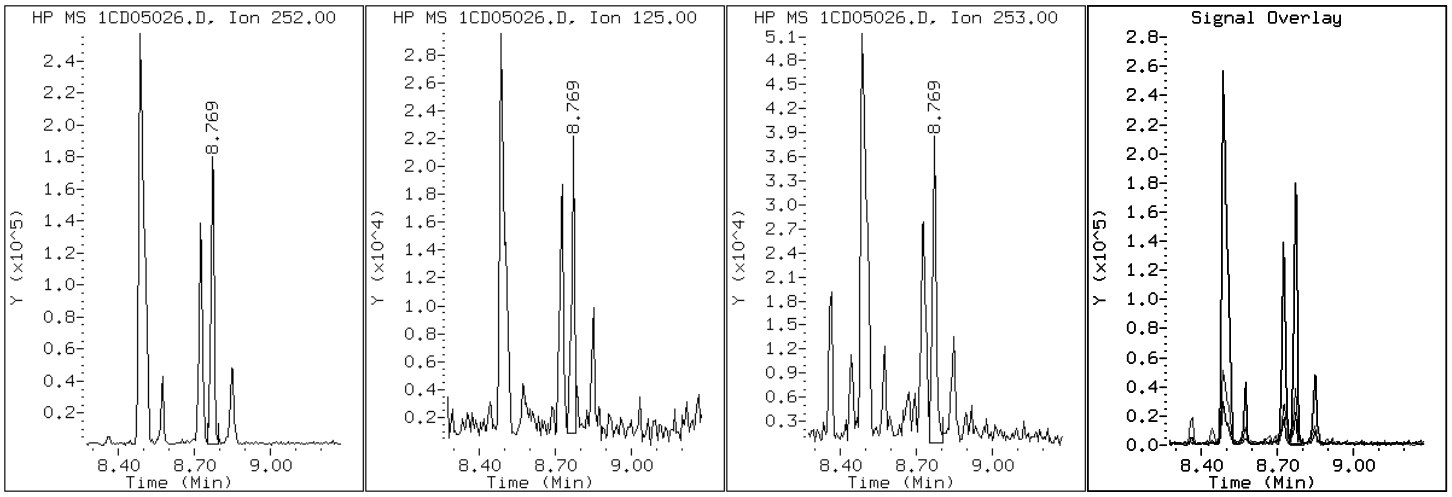
Data File: 1CD05026.D

Date: 05-APR-2013 19:05

Client ID: CV0509HH-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-45-a Operator: SCC

22 Benzo(a)pyrene



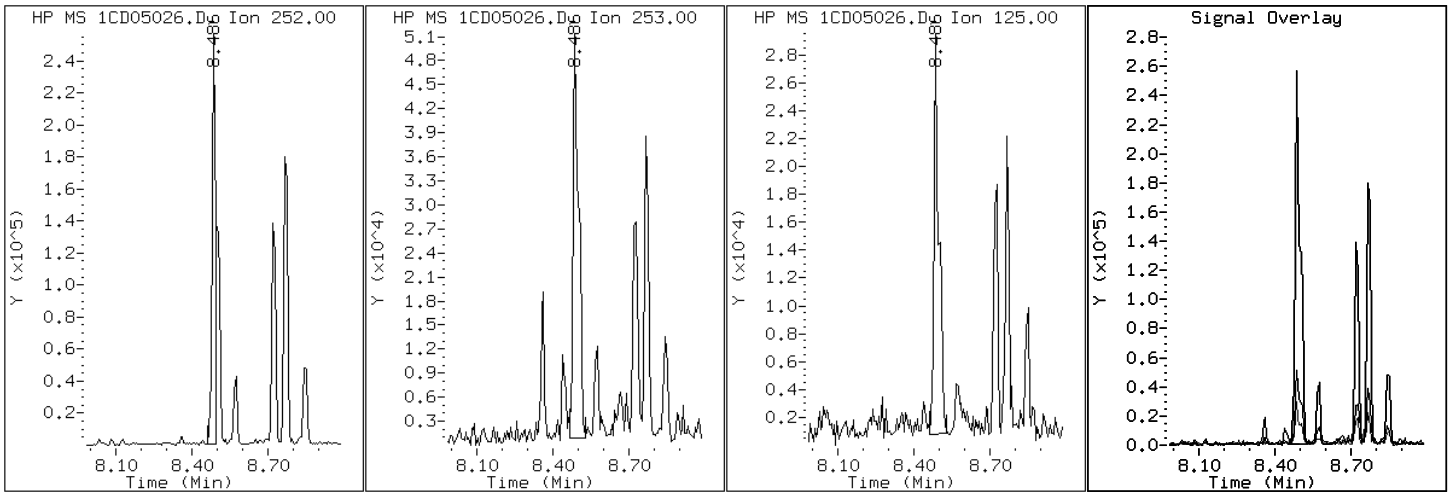
Data File: 1CD05026.D

Date: 05-APR-2013 19:05

Client ID: CV0509HH-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-45-a Operator: SCC

20 Benzo(b)fluoranthene



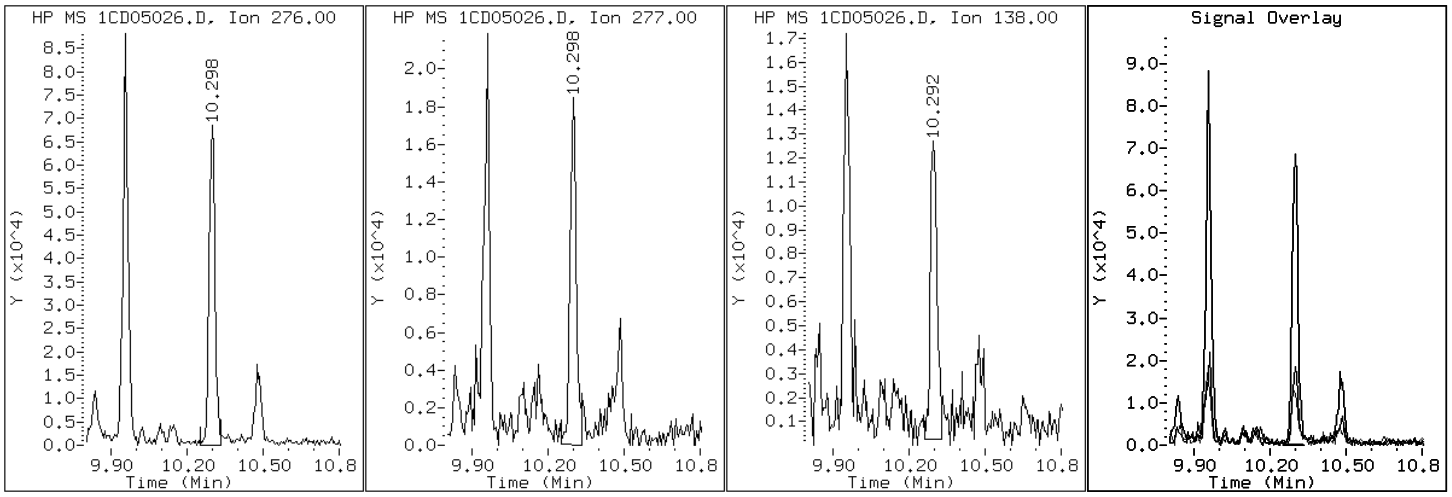
Data File: 1CD05026.D

Date: 05-APR-2013 19:05

Client ID: CV0509HH-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-45-a Operator: SCC

26 Benzo(g,h,i)perylene



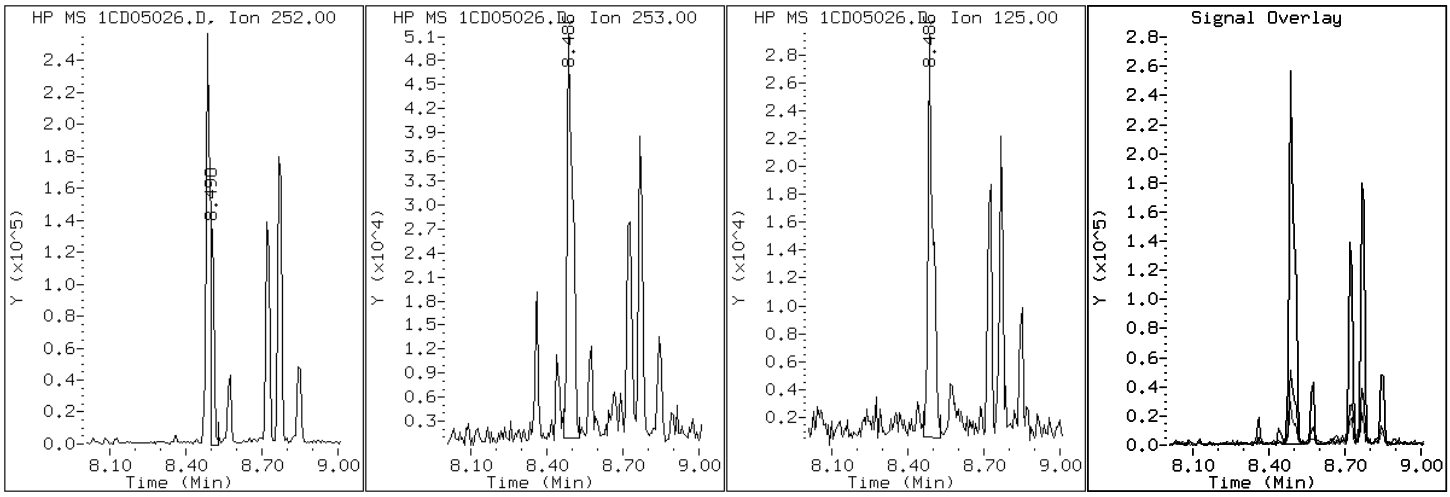
Data File: 1CD05026.D

Date: 05-APR-2013 19:05

Client ID: CV0509HH-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-45-a Operator: SCC

21 Benzo(k)fluoranthene



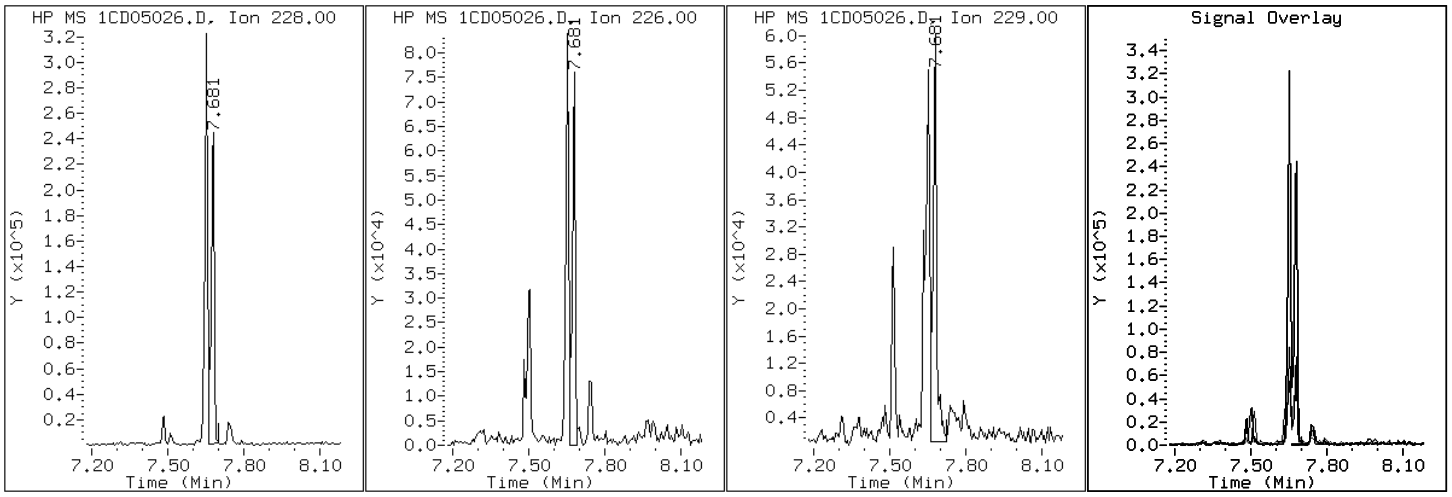
Data File: 1CD05026.D

Date: 05-APR-2013 19:05

Client ID: CV0509HH-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-45-a Operator: SCC

19 Chrysene



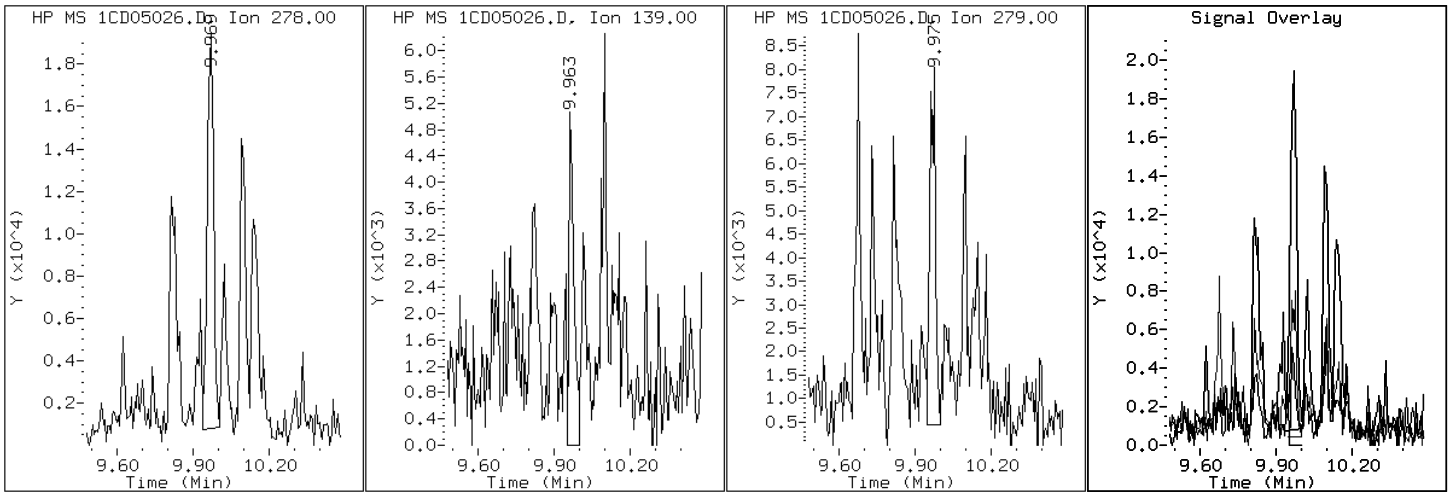
Data File: 1CD05026.D

Date: 05-APR-2013 19:05

Client ID: CV0509HH-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-45-a Operator: SCC

25 Dibenzo(a,h)anthracene



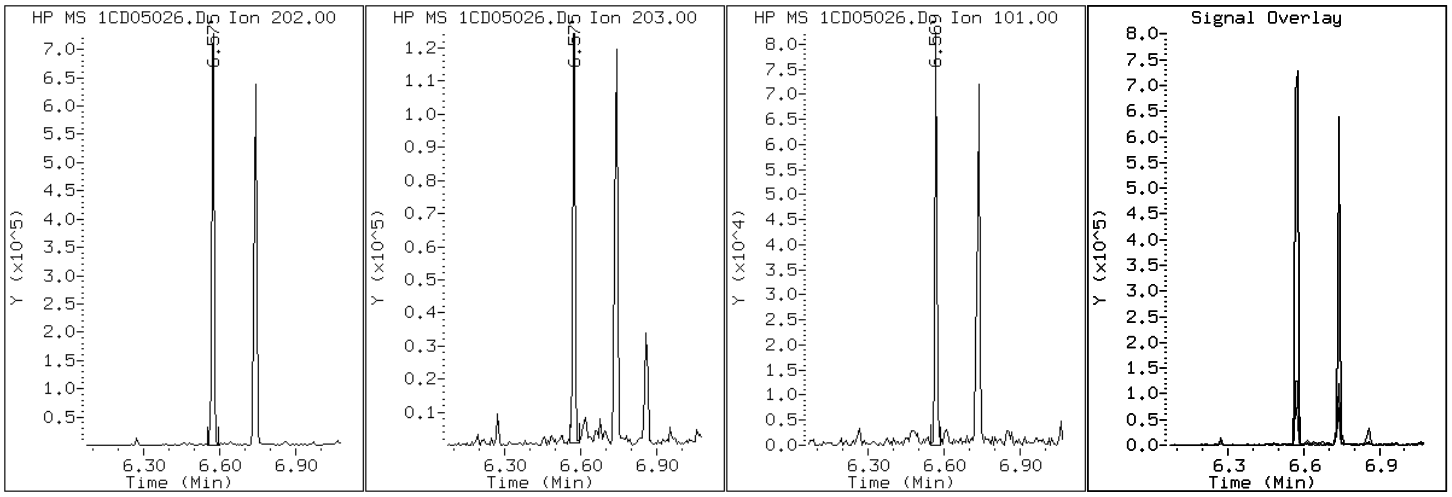
Data File: 1CD05026.D

Date: 05-APR-2013 19:05

Client ID: CV0509HH-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-45-a Operator: SCC

15 Fluoranthene



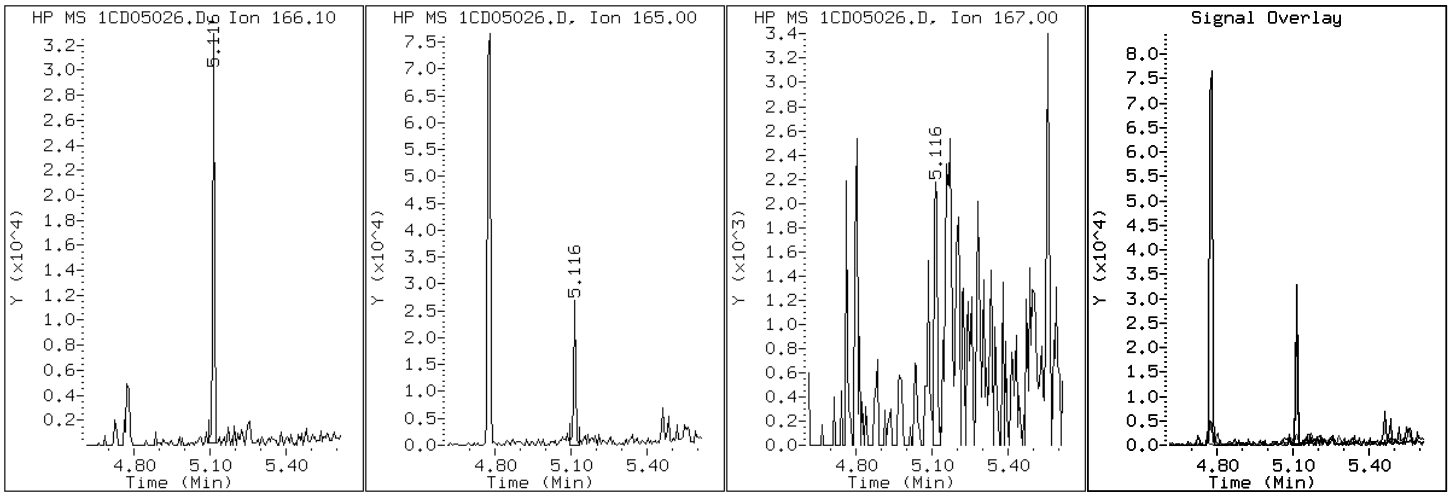
Data File: 1CD05026.D

Date: 05-APR-2013 19:05

Client ID: CV0509HH-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-45-a Operator: SCC

9 Fluorene



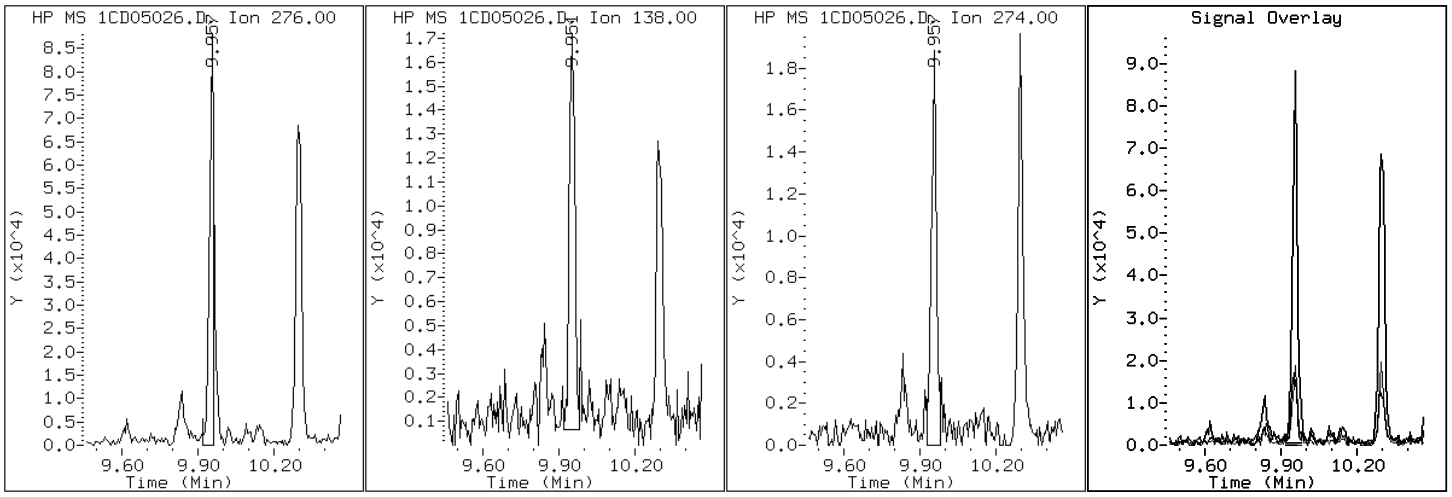
Data File: 1CD05026.D

Date: 05-APR-2013 19:05

Client ID: CV0509HH-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-45-a Operator: SCC

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



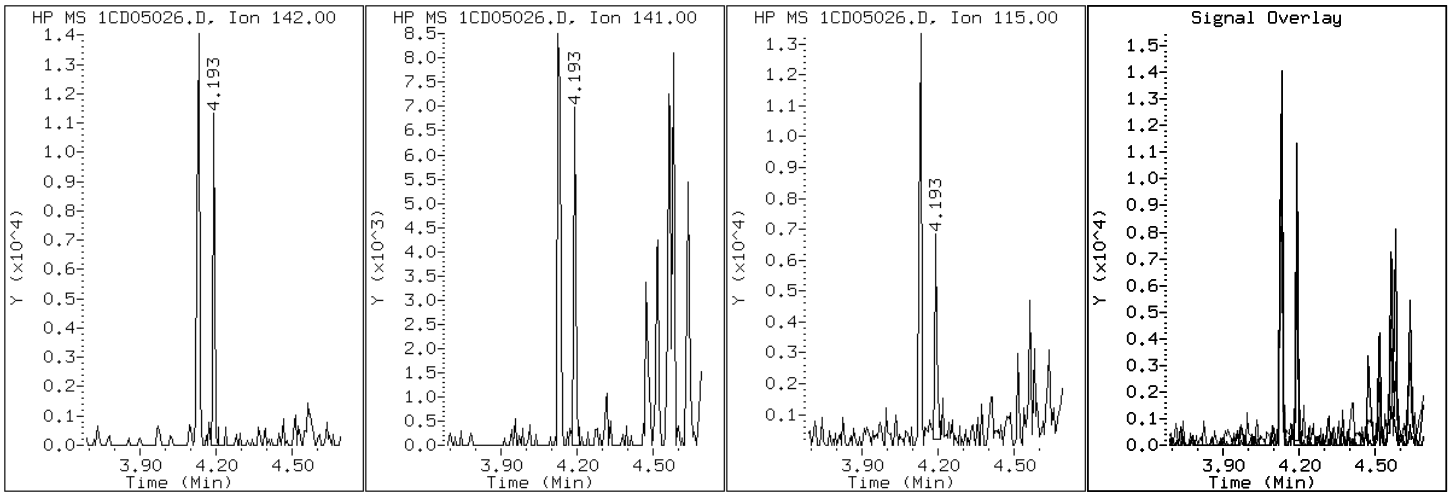
Data File: 1CD05026.D

Date: 05-APR-2013 19:05

Client ID: CV0509HH-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-45-a Operator: SCC

4 1-Methylnaphthalene



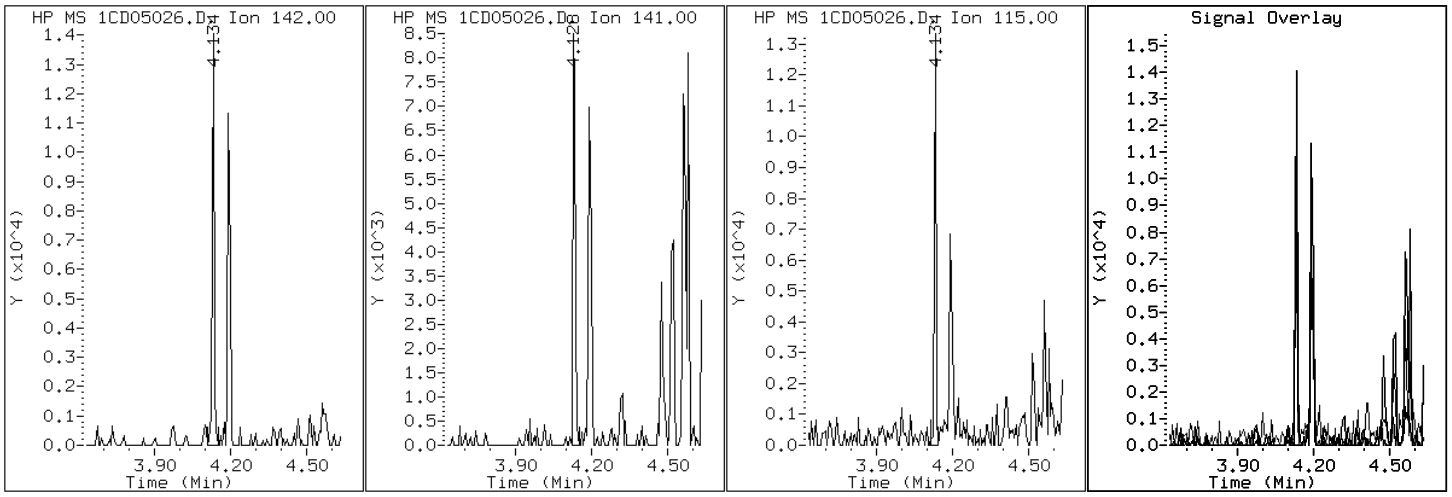
Data File: 1CD05026.D

Date: 05-APR-2013 19:05

Client ID: CV0509HH-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-45-a Operator: SCC

3 2-Methylnaphthalene



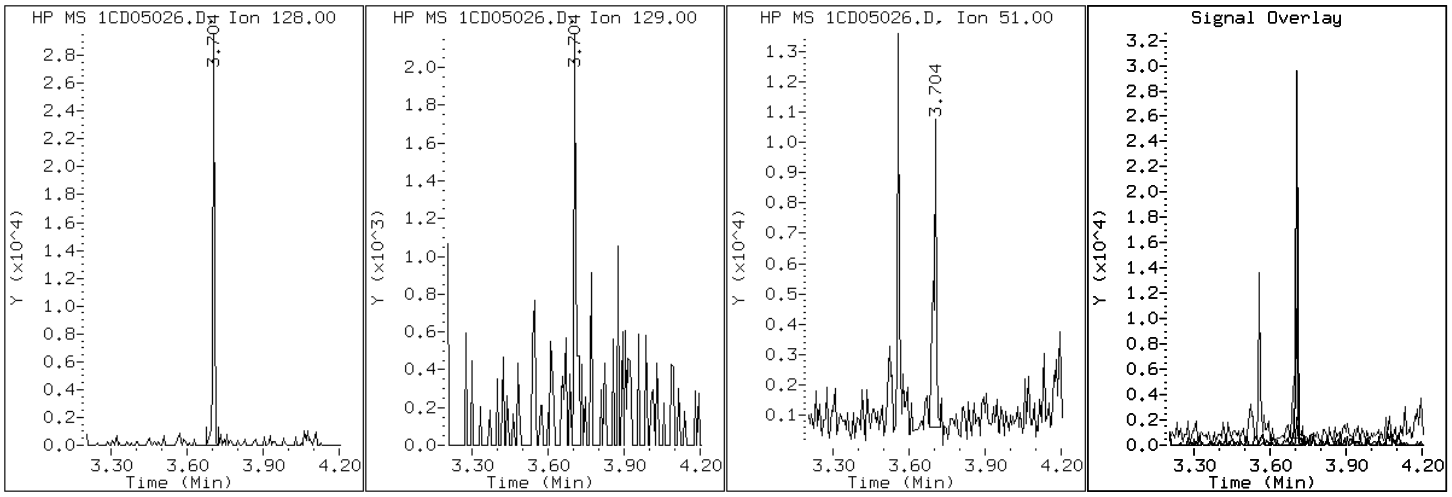
Data File: 1CD05026.D

Date: 05-APR-2013 19:05

Client ID: CV0509HH-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-45-a Operator: SCC

2 Naphthalene



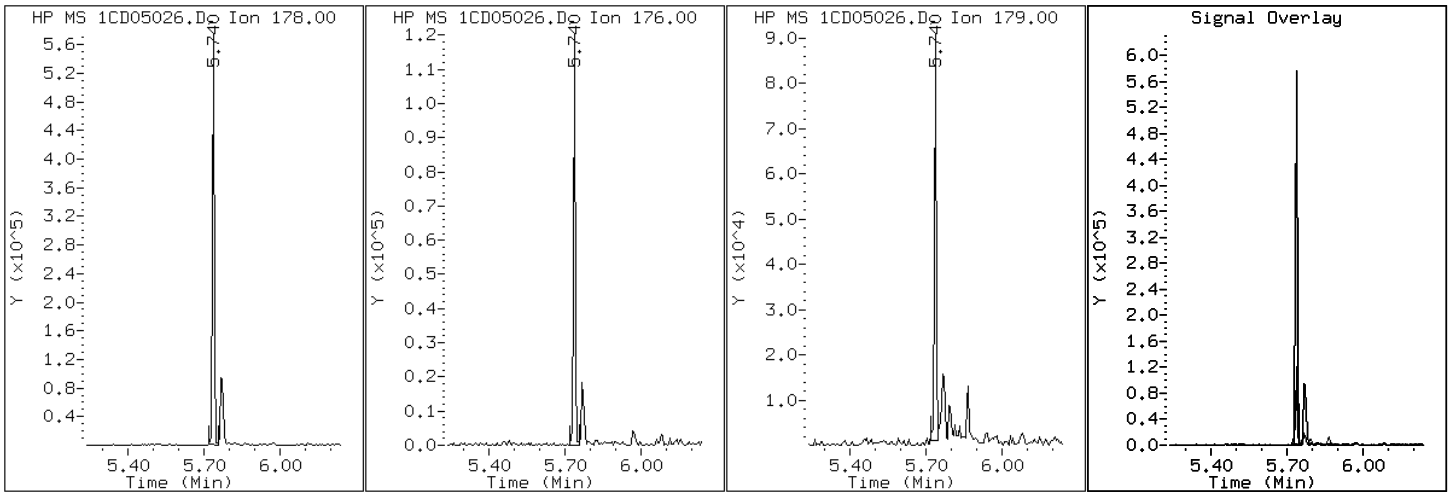
Data File: 1CD05026.D

Date: 05-APR-2013 19:05

Client ID: CV0509HH-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-45-a Operator: SCC

11 Phenanthrene



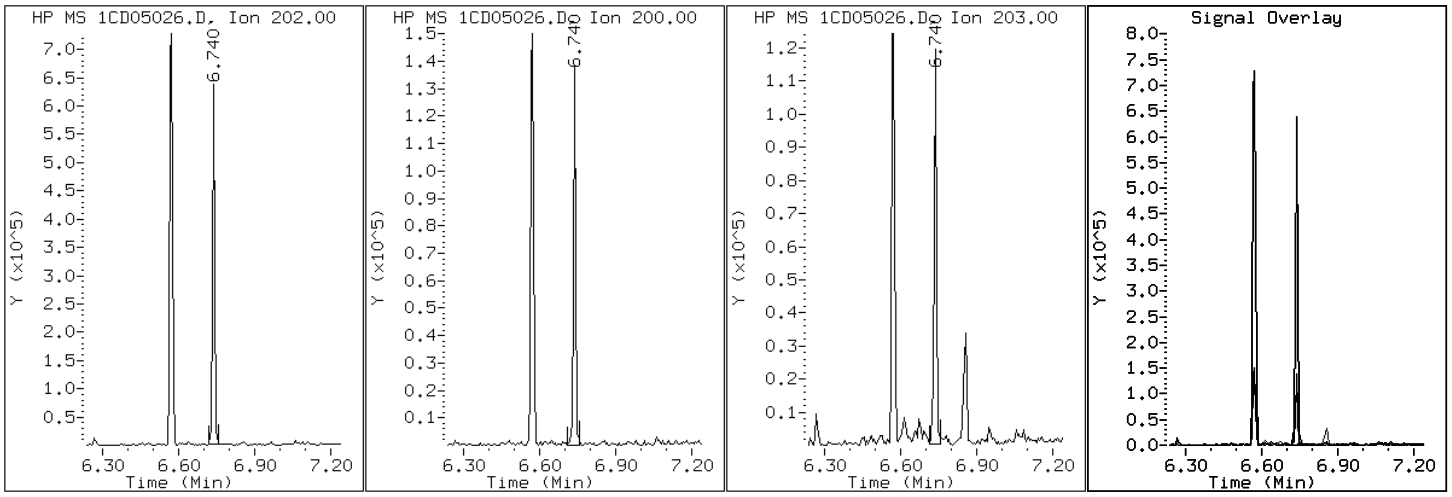
Data File: 1CD05026.D

Date: 05-APR-2013 19:05

Client ID: CV0509HH-CS Instrument: BSMC5973.i

Sample Info: 680-88767-a-45-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD05026.D
Inj. Date and Time: 05-APR-2013 19:05
Instrument ID: BSMC5973.i
Client ID: CV0509HH-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/09/2013

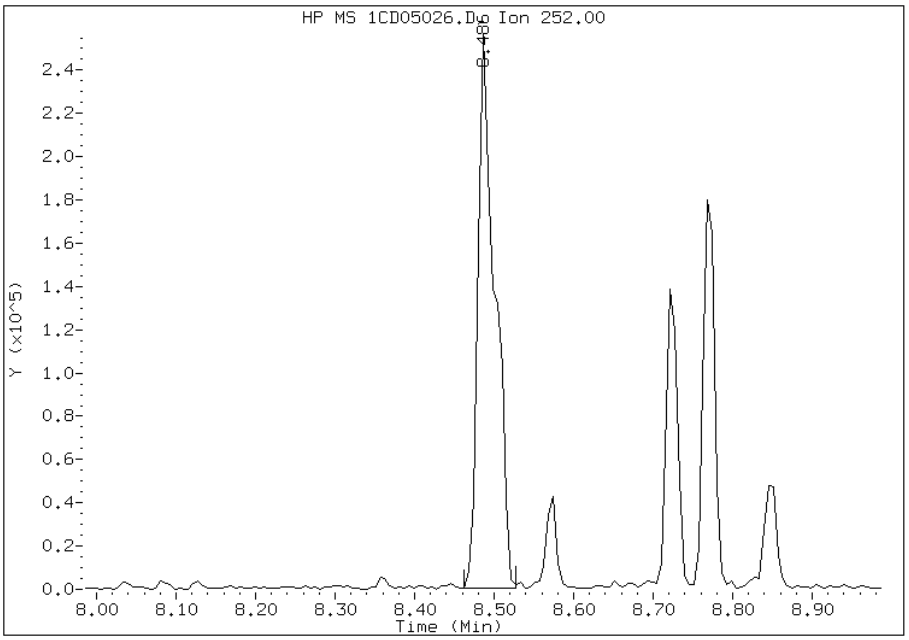
Processing Integration Results

RT: 8.49

Response: 379303

Amount: 15

Conc: 1201



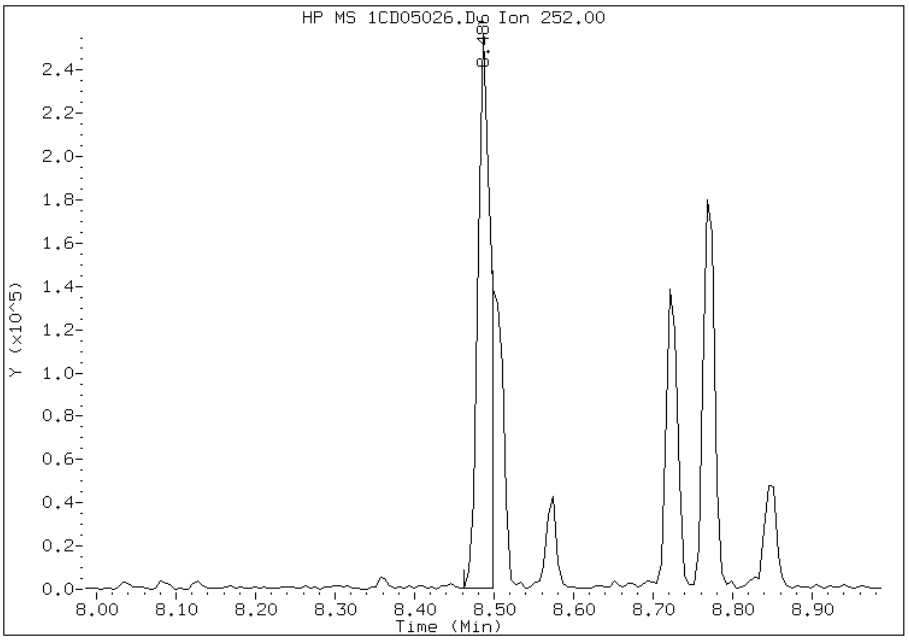
Manual Integration Results

RT: 8.49

Response: 280195

Amount: 11

Conc: 887



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:34
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD05026.D
Inj. Date and Time: 05-APR-2013 19:05
Instrument ID: BSMC5973.i
Client ID: CV0509HH-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/09/2013

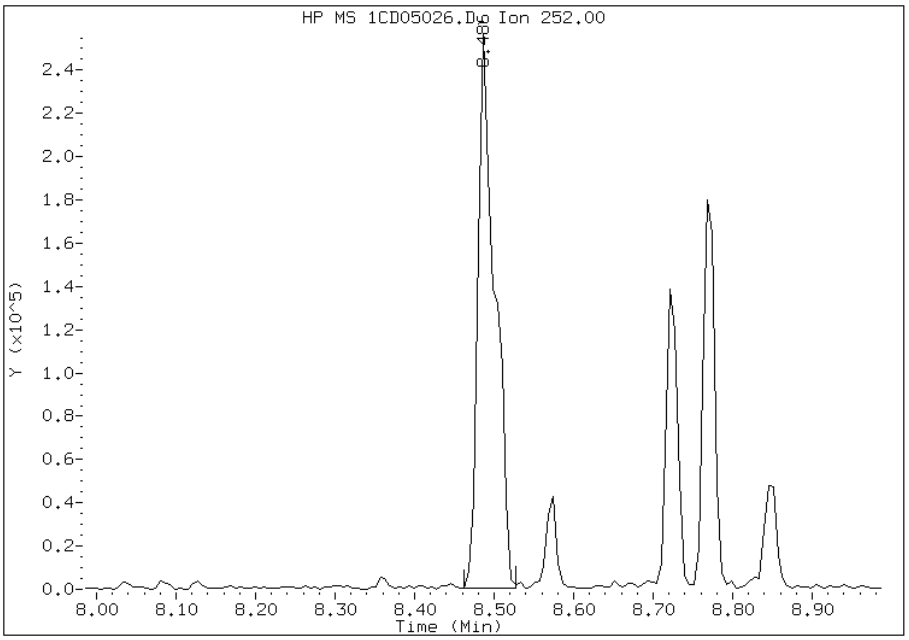
Processing Integration Results

RT: 8.49

Response: 379299

Amount: 16

Conc: 1242



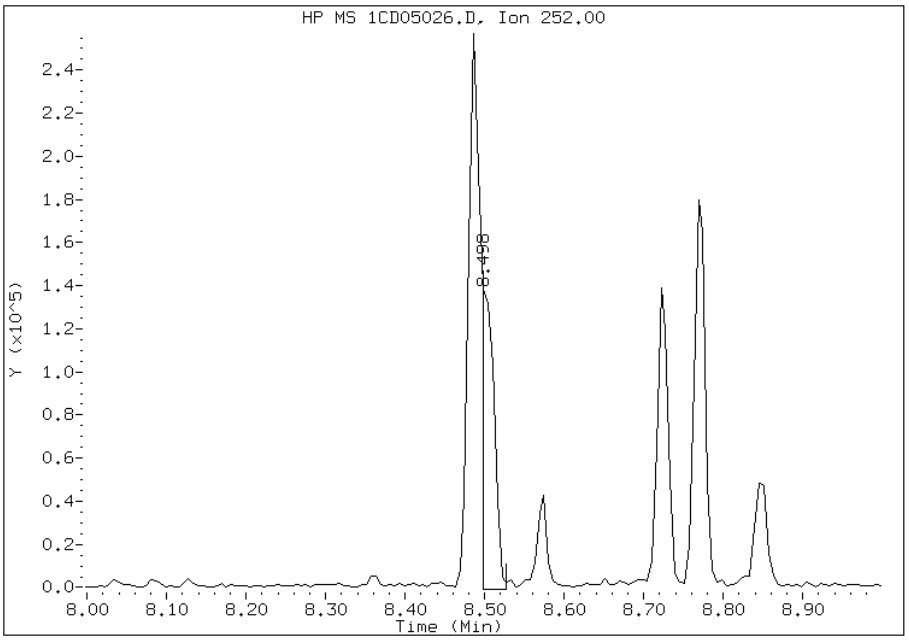
Manual Integration Results

RT: 8.50

Response: 150750

Amount: 6

Conc: 493



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD05026.D
Inj. Date and Time: 05-APR-2013 19:05
Instrument ID: BSMC5973.i
Client ID: CV0509HH-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

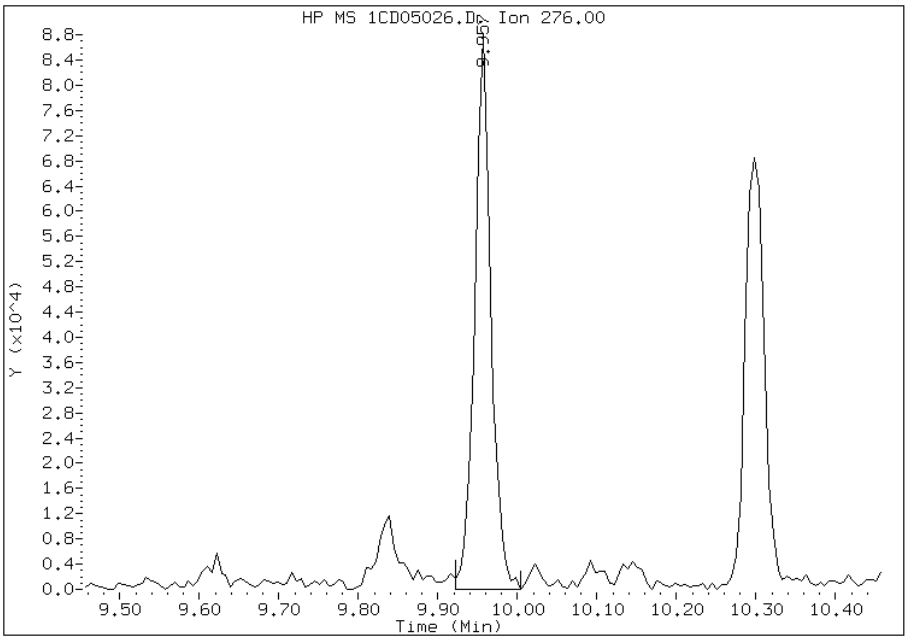
Processing Integration Results

RT: 9.96

Response: 124403

Amount: 6

Conc: 440



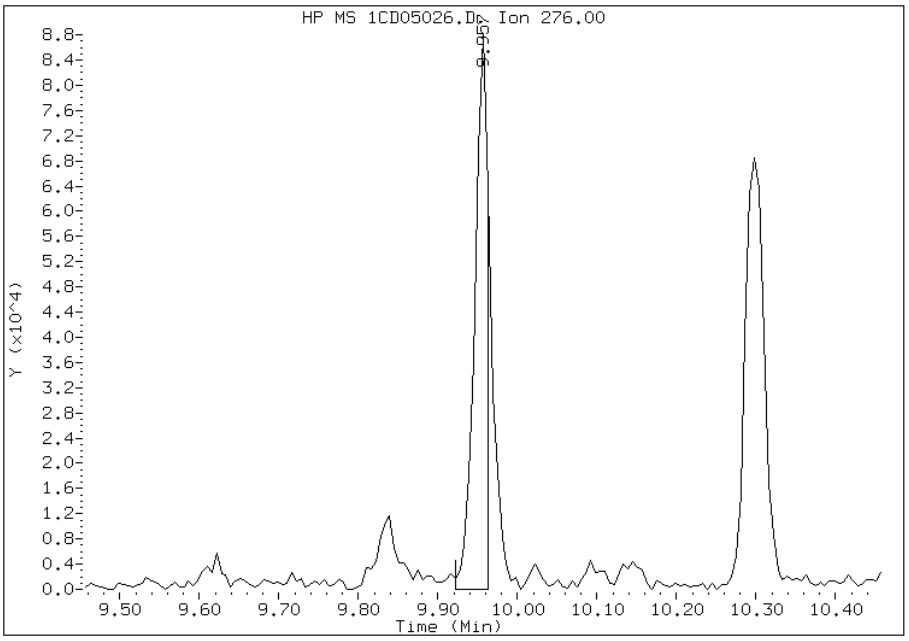
Manual Integration Results

RT: 9.96

Response: 101461

Amount: 5

Conc: 359



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:35
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88767-3

SDG No.: 68088767-3

Client Sample ID: CV0509HH-CSD | Lab Sample ID: 680-88767-46

Matrix: Solid | Lab File ID: 1CD05027.D

Analysis Method: 8270C LL | Date Collected: 03/26/2013 15:32

Extract. Method: 3546 | Date Extracted: 04/03/2013 15:12

Sample wt/vol: 15.04(g) | Date Analyzed: 04/05/2013 19:23

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

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

% Moisture: 18.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136171 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	39	J	120	24
208-96-8	Acenaphthylene	24	J	49	6.1
120-12-7	Anthracene	110		10	5.1
56-55-3	Benzo[a]anthracene	440		9.8	4.8
50-32-8	Benzo[a]pyrene	360		13	6.3
205-99-2	Benzo[b]fluoranthene	590		15	7.4
191-24-2	Benzo[g,h,i]perylene	270		24	5.4
207-08-9	Benzo[k]fluoranthene	210		9.8	4.4
218-01-9	Chrysene	470		11	5.5
53-70-3	Dibenz(a,h)anthracene	75		24	5.0
206-44-0	Fluoranthene	850		24	4.9
86-73-7	Fluorene	24		24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	200		24	8.7
90-12-0	1-Methylnaphthalene	38	J	49	5.4
91-57-6	2-Methylnaphthalene	40	J	49	8.7
91-20-3	Naphthalene	36	J	49	5.4
85-01-8	Phenanthrene	460		9.8	4.8
129-00-0	Pyrene	720		24	4.5

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05027.D
Lab Smp Id: 680-88767-A-46-A Client Smp ID: CV0509HH-CSD
Inj Date : 05-APR-2013 19:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88767-a-46-a
Misc Info : 680-88767-A-46-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m
Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	18.200	% 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	3.692	3.692	(1.000)	530012	40.0000	
* 6 Acenaphthene-d10	164	4.780	4.780	(1.000)	397045	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	764764	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	59519	5.49347	446.5245
* 18 Chrysene-d12	240	7.657	7.662	(1.000)	834370	40.0000	
* 23 Perylene-d12	264	8.827	8.827	(1.000)	837237	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	5992	0.44016	35.7774(Q)
3 2-Methylnaphthalene	142	4.133	4.133	(1.119)	4546	0.49057	39.8749
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	3895	0.46712	37.9690
5 Acenaphthylene	152	4.692	4.692	(0.982)	4888	0.29746	24.1780
7 Acenaphthene	154	4.798	4.798	(1.004)	4899	0.48134	39.1244
9 Fluorene	166	5.116	5.116	(1.070)	4025	0.29665	24.1125
11 Phenanthrene	178	5.739	5.739	(1.003)	126744	5.69035	462.5281
12 Anthracene	178	5.774	5.774	(1.009)	30044	1.33063	108.1574

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	18712	0.96732	78.6261
15 Fluoranthene	202	6.568	6.574	(1.148)	256179	10.4145	846.5215
16 Pyrene	202	6.739	6.739	(0.880)	204866	8.86379	720.4738
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	128516	5.45152	443.1151
19 Chrysene	228	7.680	7.680	(1.003)	136174	5.72740	465.5390
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	173046	7.31096	594.2554
21 Benzo(k)fluoranthene	252	8.504	8.509	(0.963)	58300	2.54668	207.0011(QM)
22 Benzo(a)pyrene	252	8.774	8.774	(0.994)	97749	4.38647	356.5449
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.962	(1.128)	51948	2.45434	199.4958(M)
25 Dibenzo(a,h)anthracene	278	9.968	9.980	(1.129)	17941	0.91760	74.5848
26 Benzo(g,h,i)perylene	276	10.298	10.303	(1.167)	71083	3.29055	267.4650(M)

QC Flag Legend

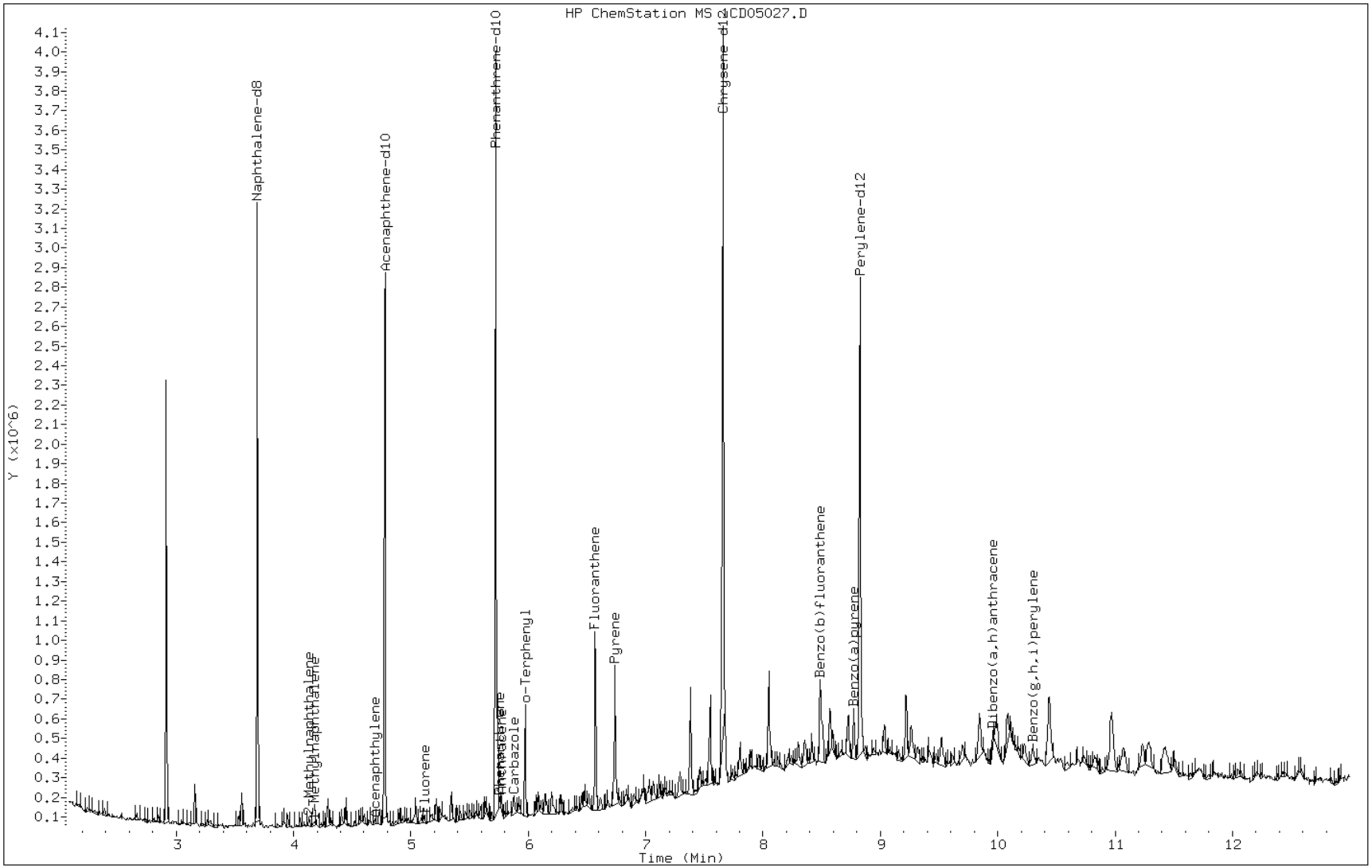
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD05027.D

Date: 05-APR-2013 19:23

Client ID: CV0509HH-CSD Instrument: BSMC5973.i

Sample Info: 680-88767-a-46-a Operator: SCC



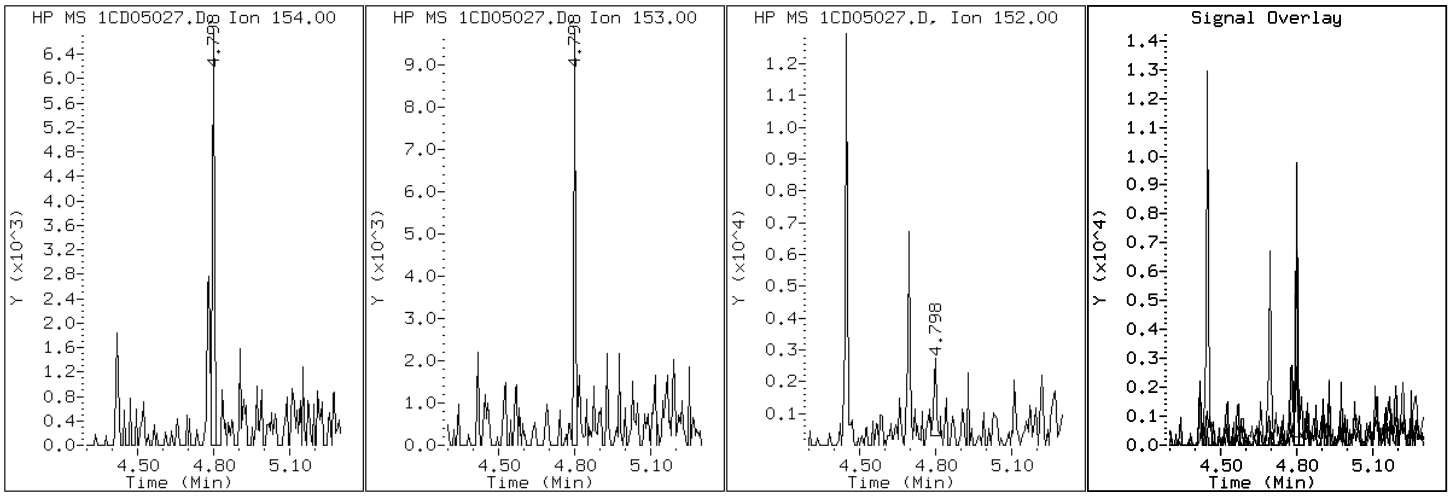
Data File: 1CD05027.D

Date: 05-APR-2013 19:23

Client ID: CV0509HH-CSD Instrument: BSMC5973.i

Sample Info: 680-88767-a-46-a Operator: SCC

7 Acenaphthene



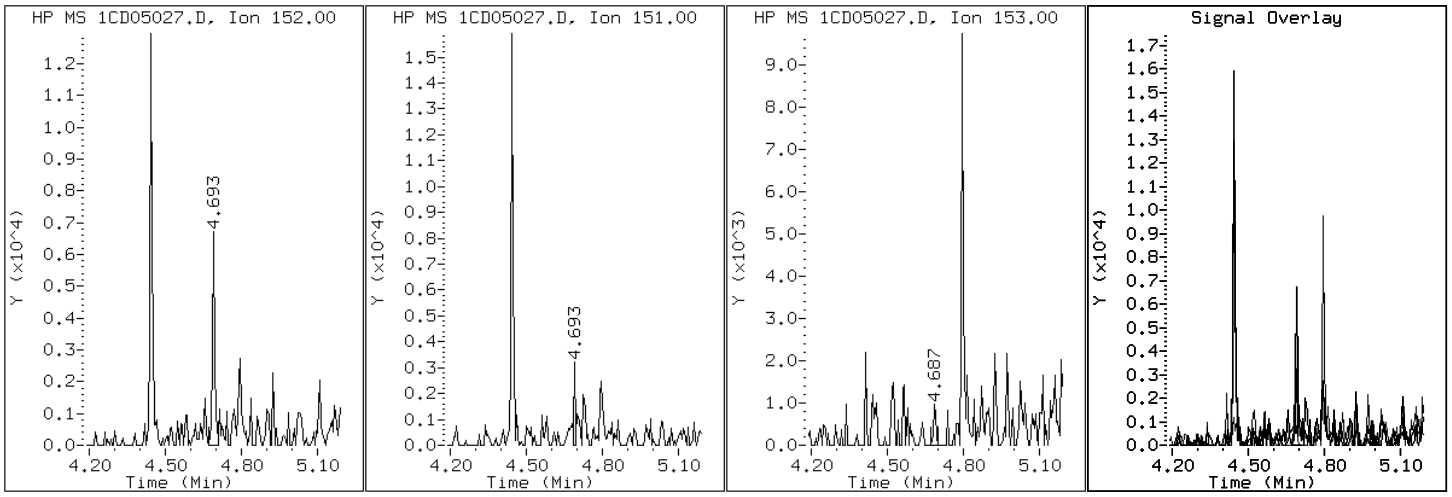
Data File: 1CD05027.D

Date: 05-APR-2013 19:23

Client ID: CV0509HH-CSD Instrument: BSMC5973.i

Sample Info: 680-88767-a-46-a Operator: SCC

5 Acenaphthylene



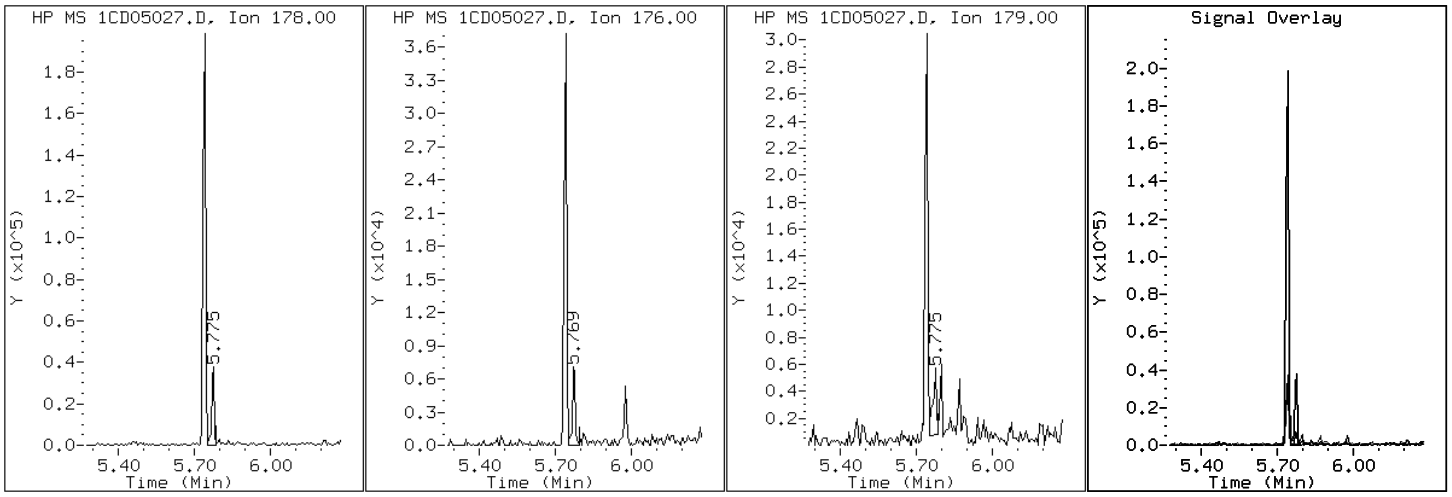
Data File: 1CD05027.D

Date: 05-APR-2013 19:23

Client ID: CV0509HH-CSD Instrument: BSMC5973.i

Sample Info: 680-88767-a-46-a Operator: SCC

12 Anthracene



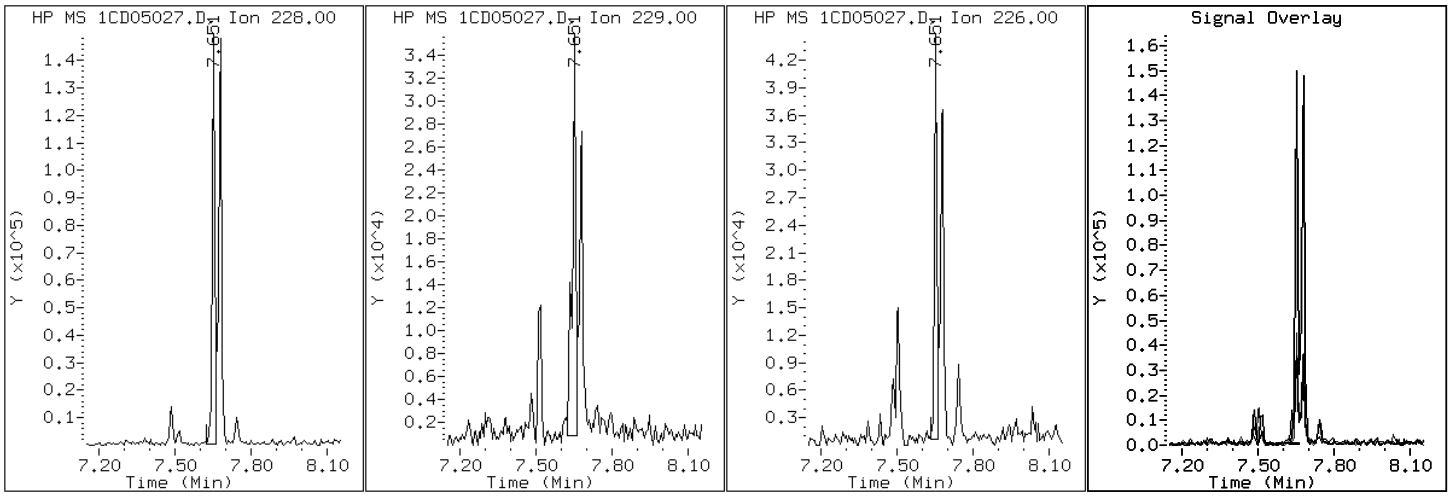
Data File: 1CD05027.D

Date: 05-APR-2013 19:23

Client ID: CV0509HH-CSD Instrument: BSMC5973.i

Sample Info: 680-88767-a-46-a Operator: SCC

17 Benzo(a)anthracene



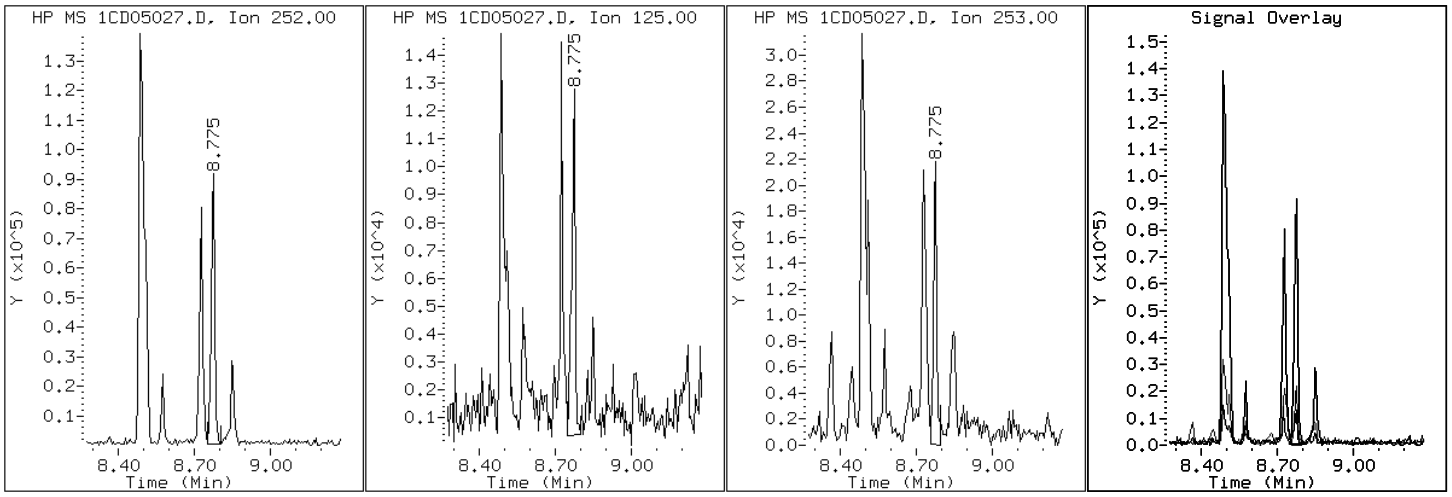
Data File: 1CD05027.D

Date: 05-APR-2013 19:23

Client ID: CV0509HH-CSD Instrument: BSMC5973.i

Sample Info: 680-88767-a-46-a Operator: SCC

22 Benzo(a)pyrene



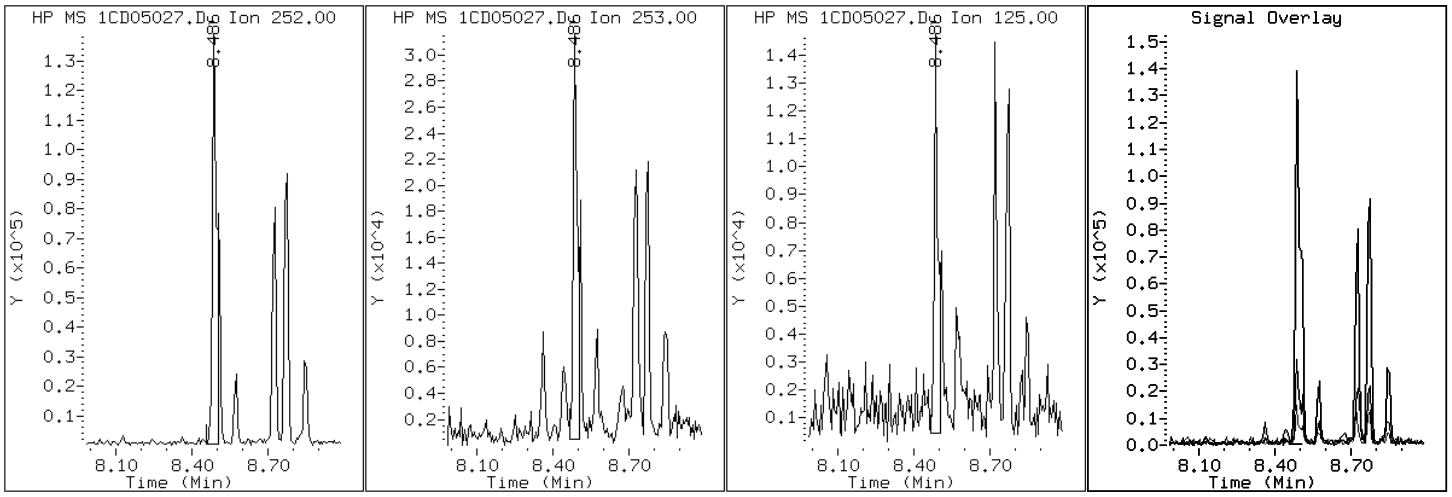
Data File: 1CD05027.D

Date: 05-APR-2013 19:23

Client ID: CV0509HH-CSD Instrument: BSMC5973.i

Sample Info: 680-88767-a-46-a Operator: SCC

20 Benzo(b)fluoranthene



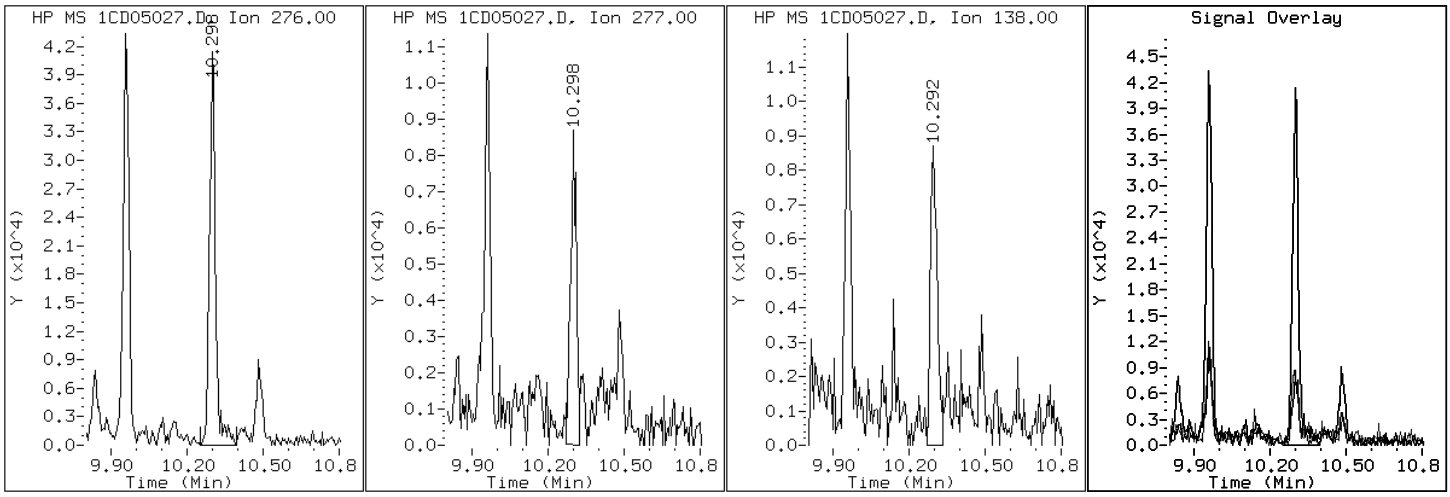
Data File: 1CD05027.D

Date: 05-APR-2013 19:23

Client ID: CV0509HH-CSD Instrument: BSMC5973.i

Sample Info: 680-88767-a-46-a Operator: SCC

26 Benzo(g,h,i)perylene



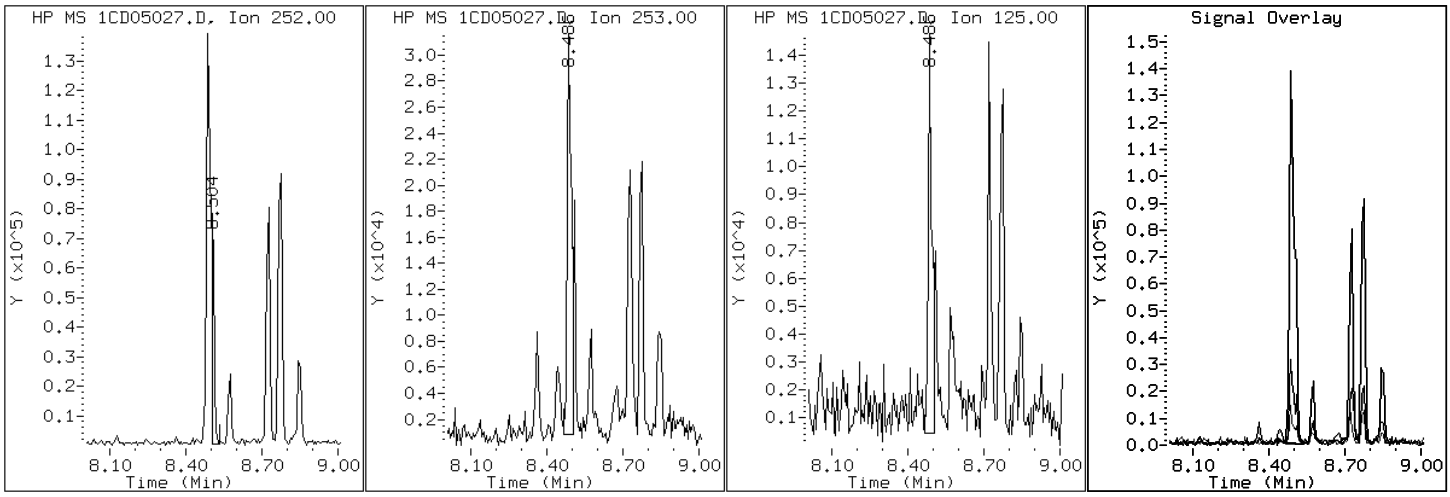
Data File: 1CD05027.D

Date: 05-APR-2013 19:23

Client ID: CV0509HH-CSD Instrument: BSMC5973.i

Sample Info: 680-88767-a-46-a Operator: SCC

21 Benzo(k)fluoranthene



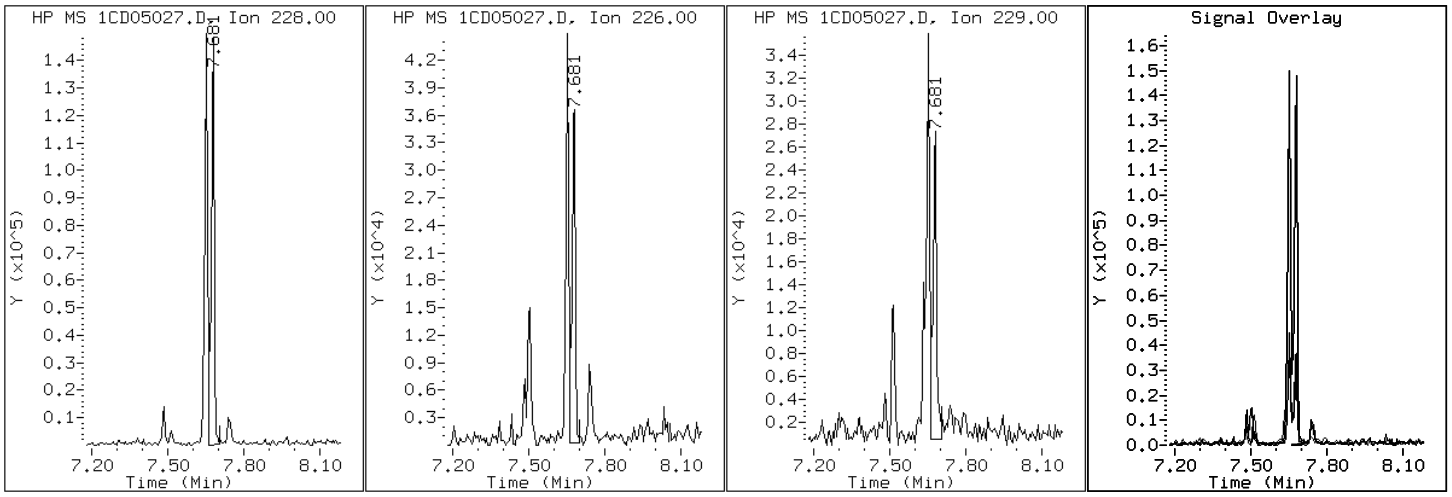
Data File: 1CD05027.D

Date: 05-APR-2013 19:23

Client ID: CV0509HH-CSD Instrument: BSMC5973.i

Sample Info: 680-88767-a-46-a Operator: SCC

19 Chrysene



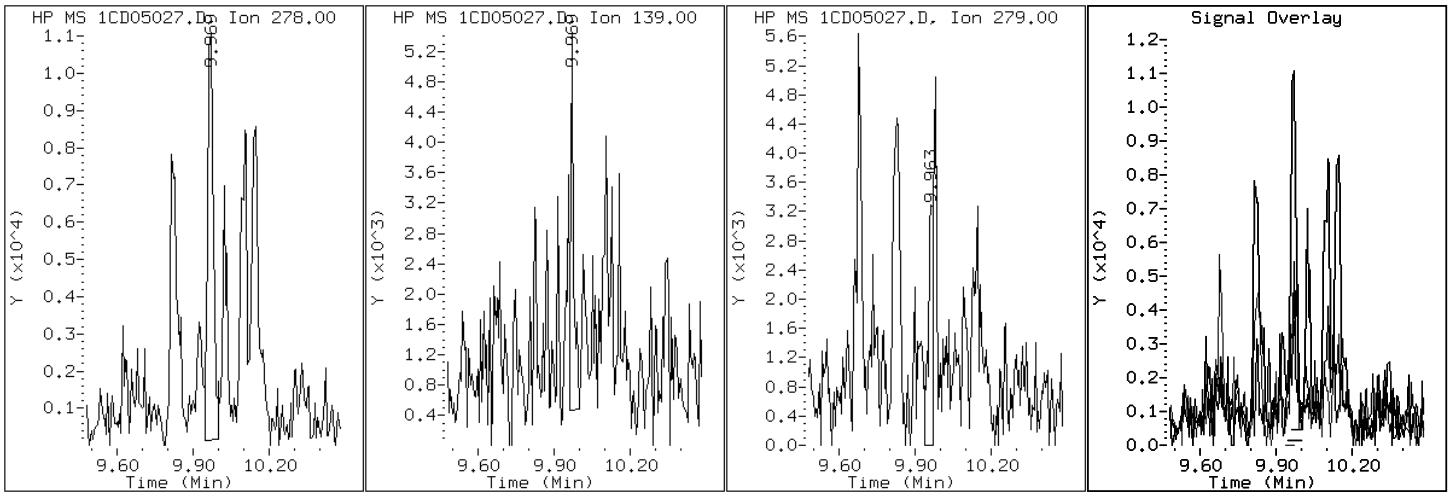
Data File: 1CD05027.D

Date: 05-APR-2013 19:23

Client ID: CV0509HH-CSD Instrument: BSMC5973.i

Sample Info: 680-88767-a-46-a Operator: SCC

25 Dibenzo(a,h)anthracene



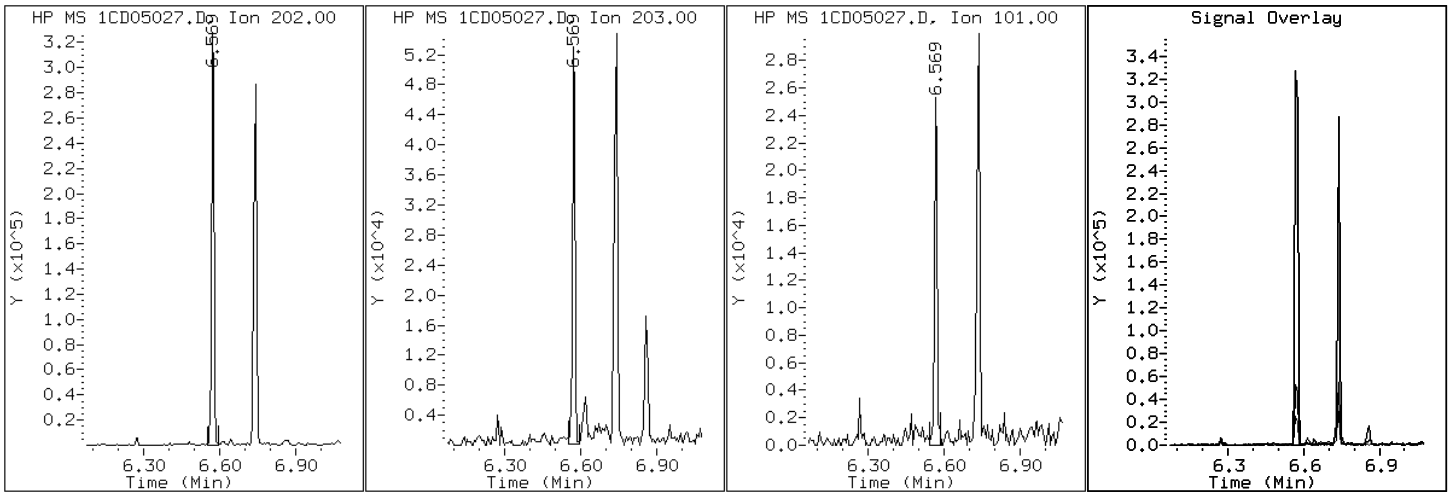
Data File: 1CD05027.D

Date: 05-APR-2013 19:23

Client ID: CV0509HH-CSD Instrument: BSMC5973.i

Sample Info: 680-88767-a-46-a Operator: SCC

15 Fluoranthene



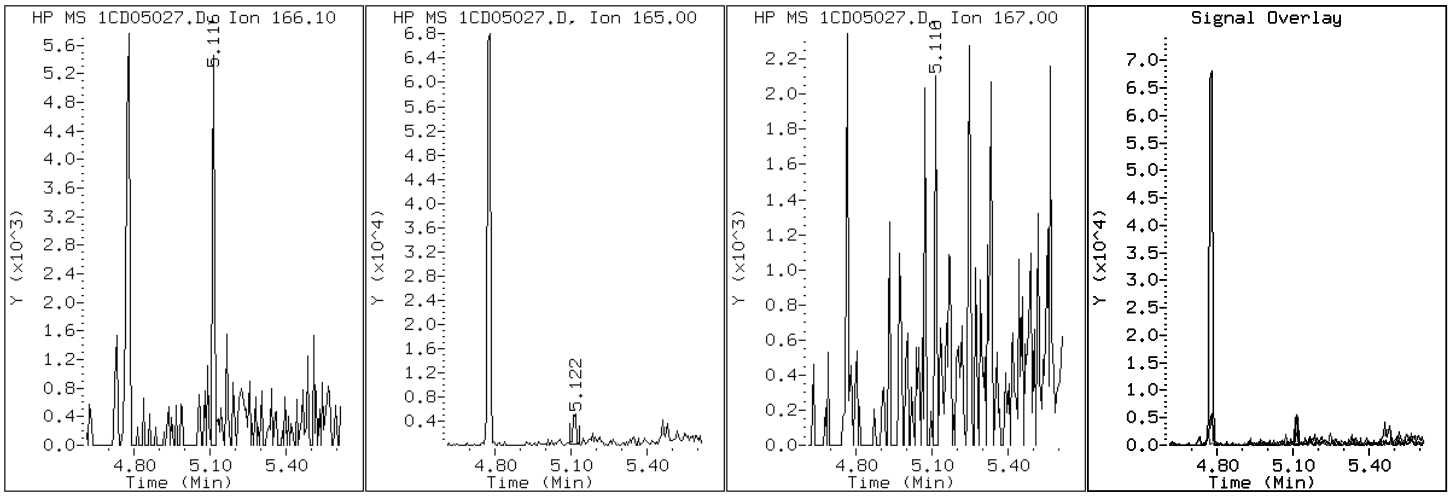
Data File: 1CD05027.D

Date: 05-APR-2013 19:23

Client ID: CV0509HH-CSD Instrument: BSMC5973.i

Sample Info: 680-88767-a-46-a Operator: SCC

9 Fluorene



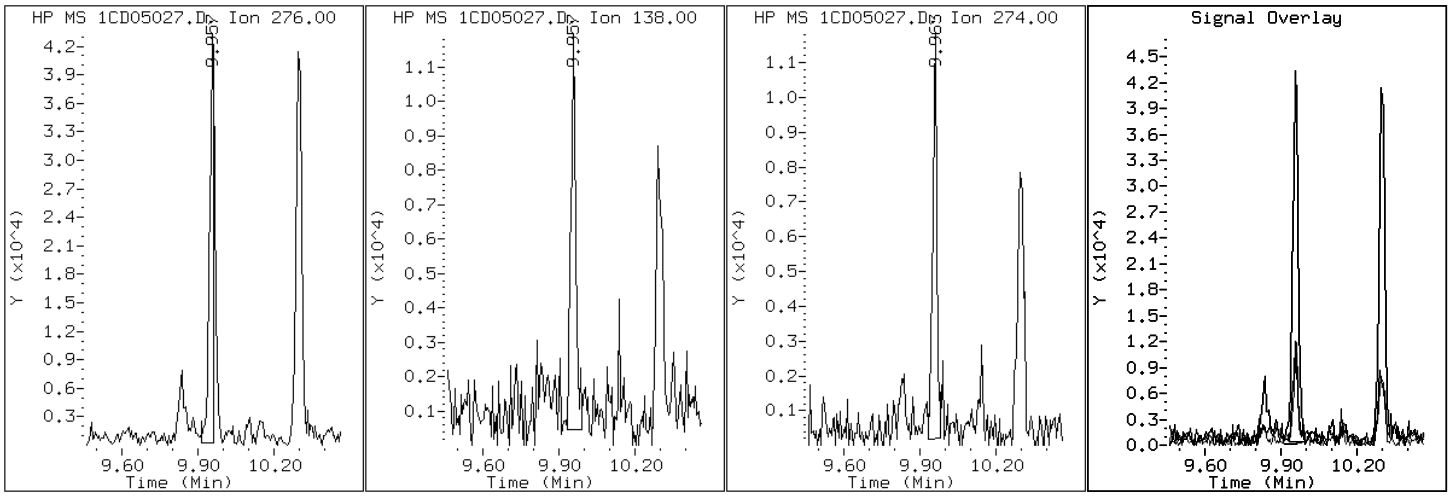
Data File: 1CD05027.D

Date: 05-APR-2013 19:23

Client ID: CV0509HH-CSD Instrument: BSMC5973.i

Sample Info: 680-88767-a-46-a Operator: SCC

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



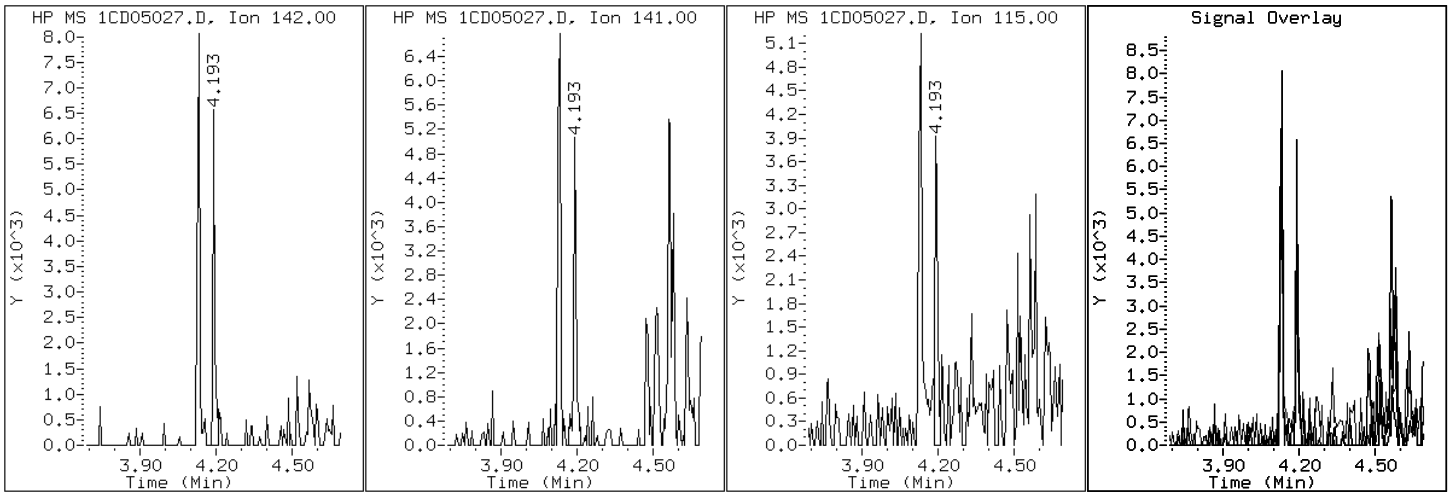
Data File: 1CD05027.D

Date: 05-APR-2013 19:23

Client ID: CV0509HH-CSD Instrument: BSMC5973.i

Sample Info: 680-88767-a-46-a Operator: SCC

4 1-Methylnaphthalene



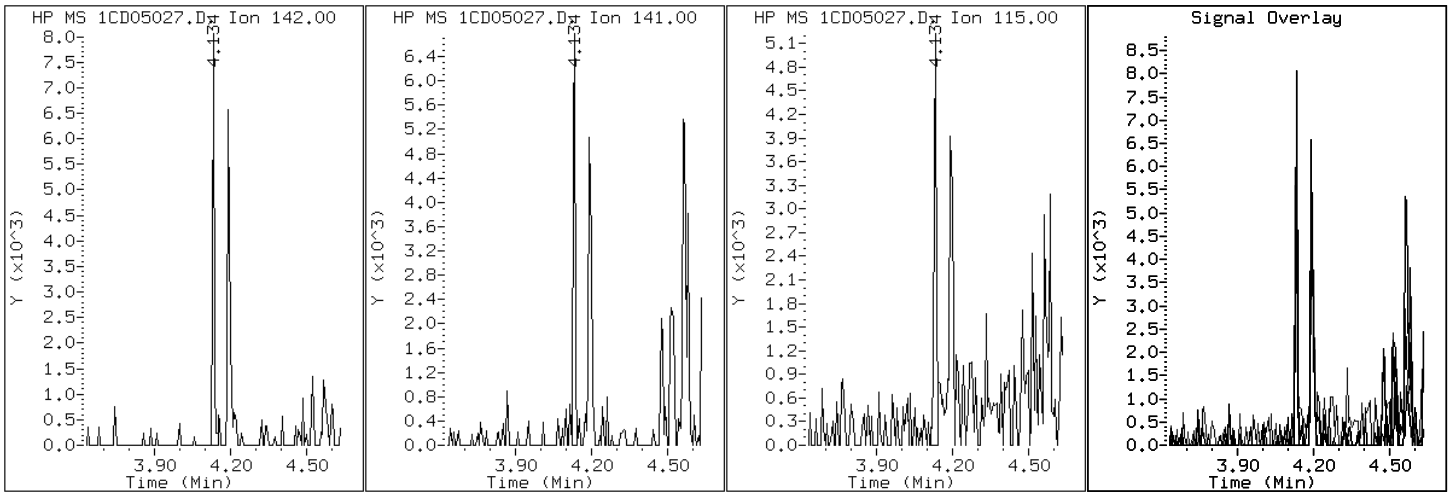
Data File: 1CD05027.D

Date: 05-APR-2013 19:23

Client ID: CV0509HH-CSD Instrument: BSMC5973.i

Sample Info: 680-88767-a-46-a Operator: SCC

3 2-Methylnaphthalene



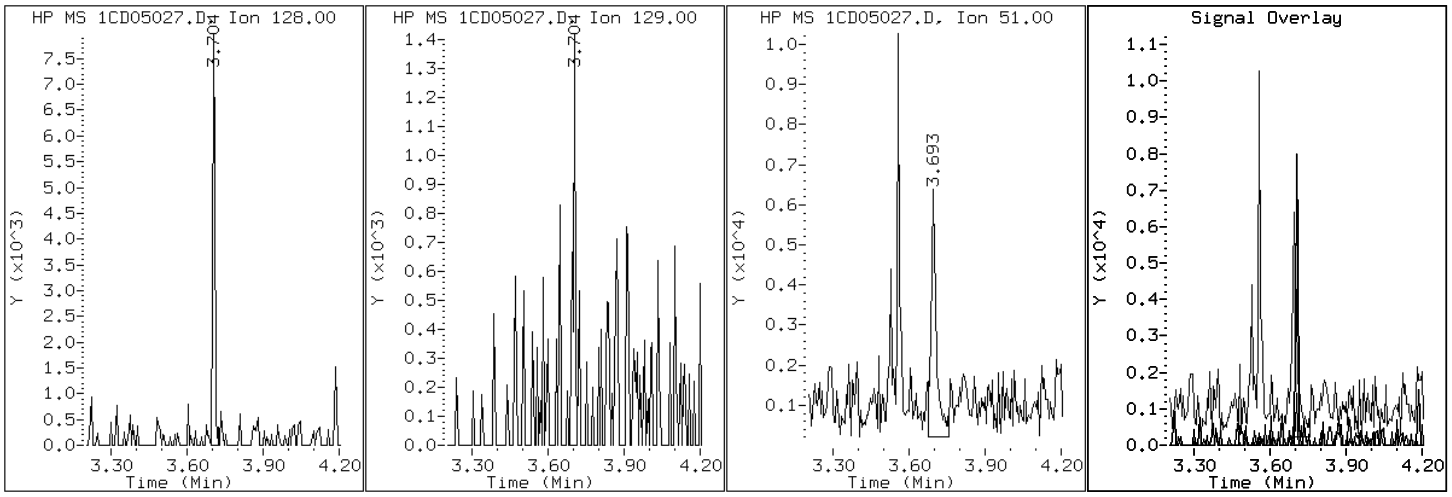
Data File: 1CD05027.D

Date: 05-APR-2013 19:23

Client ID: CV0509HH-CSD Instrument: BSMC5973.i

Sample Info: 680-88767-a-46-a Operator: SCC

2 Naphthalene



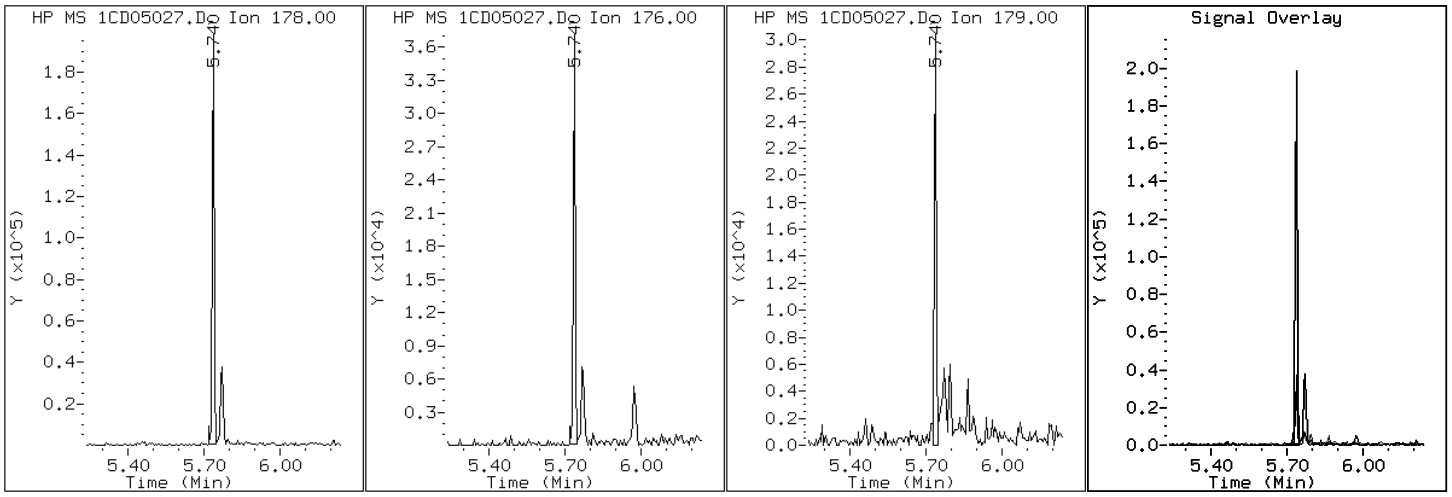
Data File: 1CD05027.D

Date: 05-APR-2013 19:23

Client ID: CV0509HH-CSD Instrument: BSMC5973.i

Sample Info: 680-88767-a-46-a Operator: SCC

11 Phenanthrene



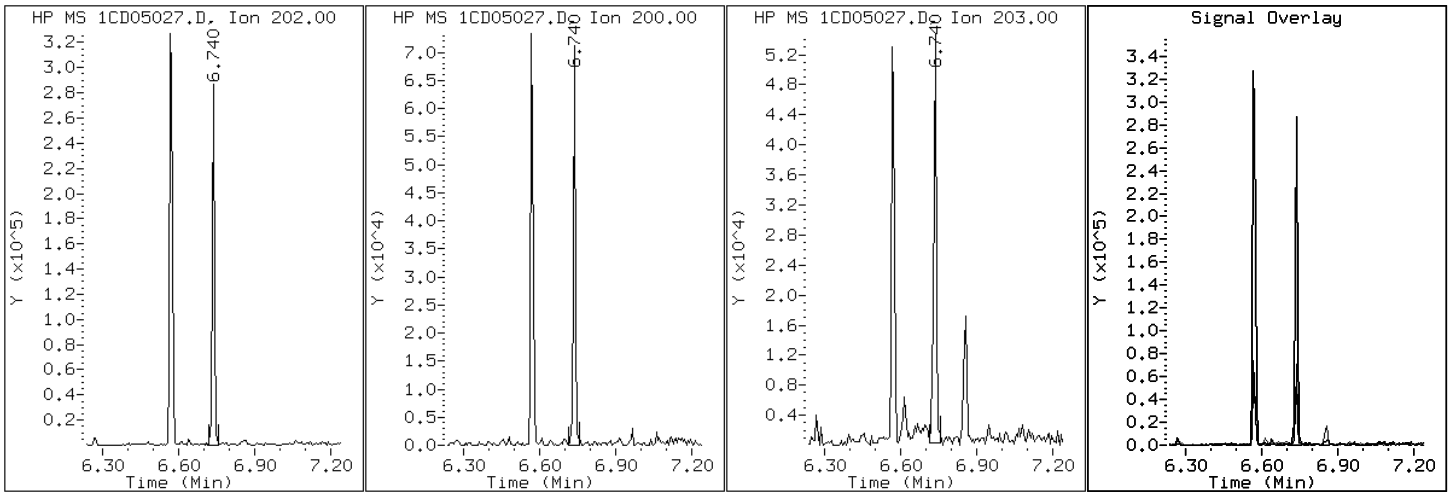
Data File: 1CD05027.D

Date: 05-APR-2013 19:23

Client ID: CV0509HH-CSD Instrument: BSMC5973.i

Sample Info: 680-88767-a-46-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD05027.D
Inj. Date and Time: 05-APR-2013 19:23
Instrument ID: BSMC5973.i
Client ID: CV0509HH-CSD
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/09/2013

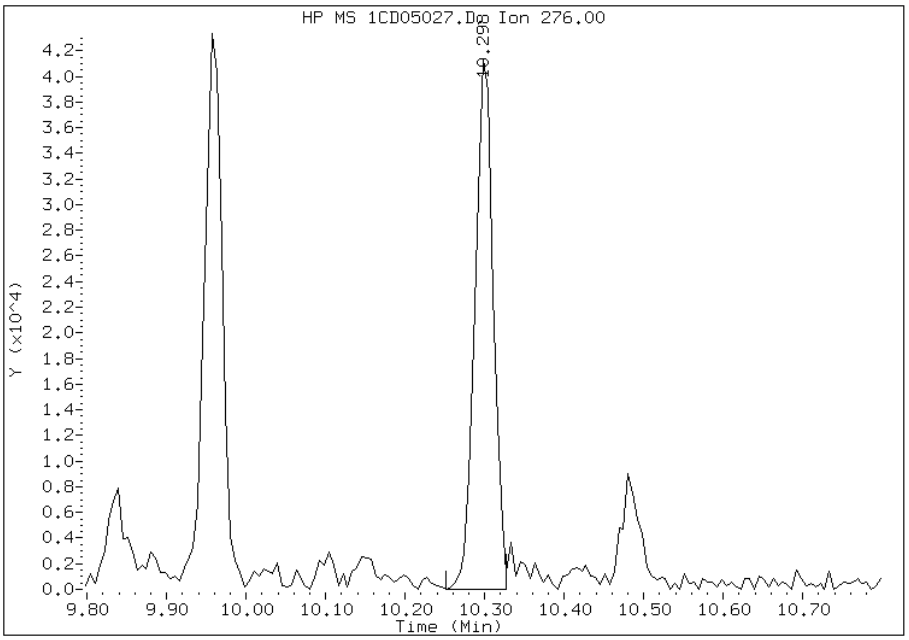
Processing Integration Results

RT: 10.30

Response: 65800

Amount: 3

Conc: 248



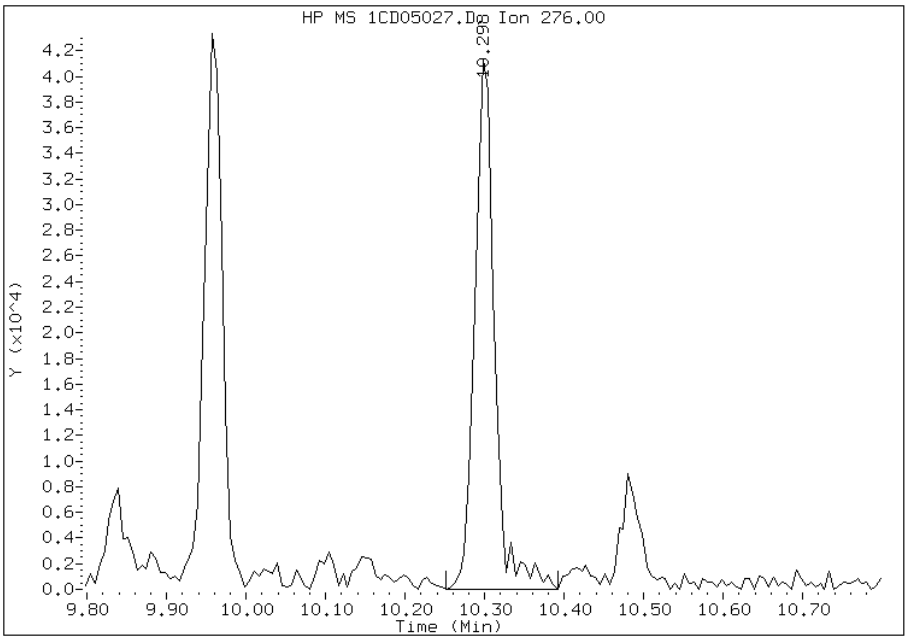
Manual Integration Results

RT: 10.30

Response: 71083

Amount: 3

Conc: 267



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD05027.D
Inj. Date and Time: 05-APR-2013 19:23
Instrument ID: BSMC5973.i
Client ID: CV0509HH-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/09/2013

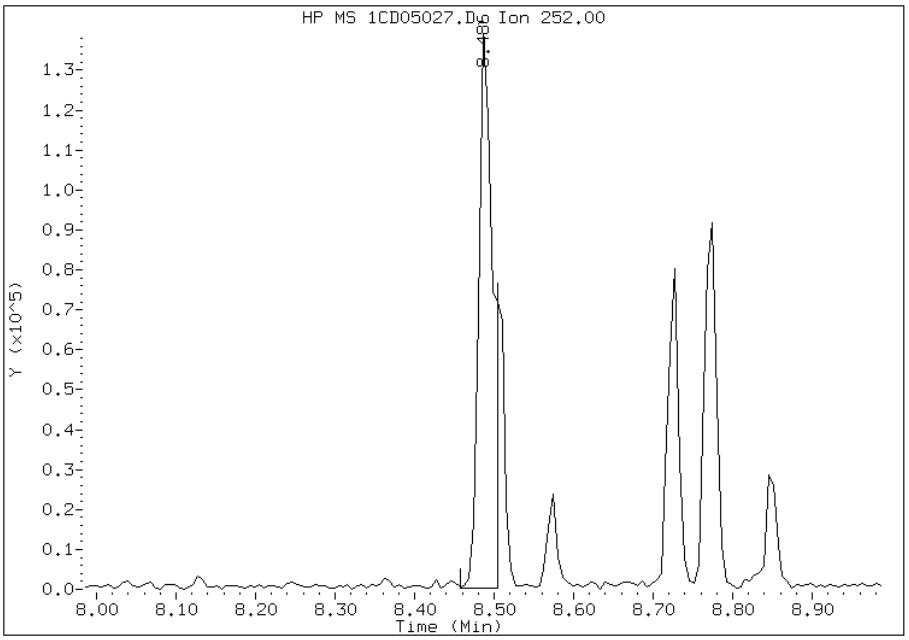
Processing Integration Results

RT: 8.49

Response: 173044

Amount: 8

Conc: 614



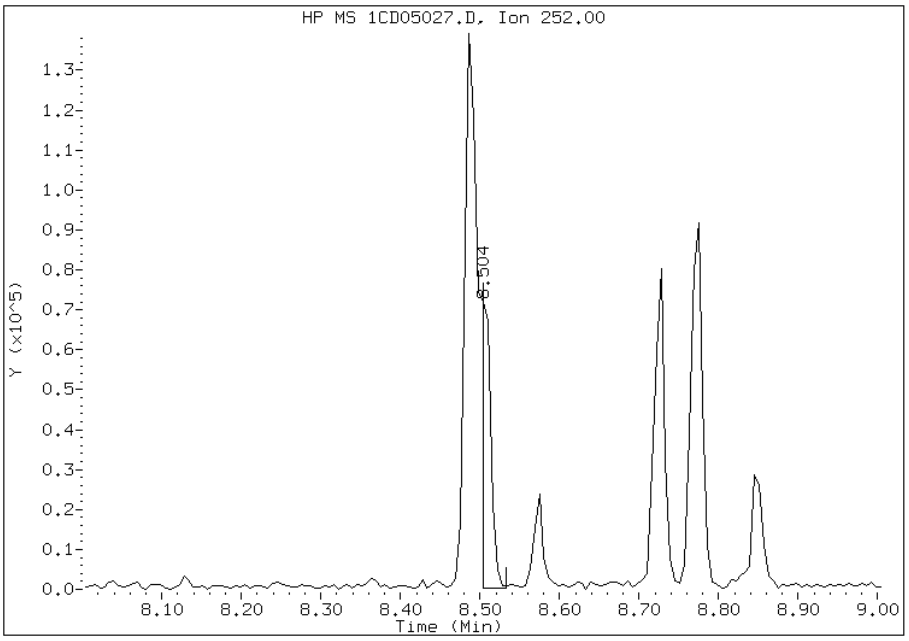
Manual Integration Results

RT: 8.50

Response: 58300

Amount: 3

Conc: 207



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:35
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1CD05027.D
Inj. Date and Time: 05-APR-2013 19:23
Instrument ID: BSMC5973.i
Client ID: CV0509HH-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

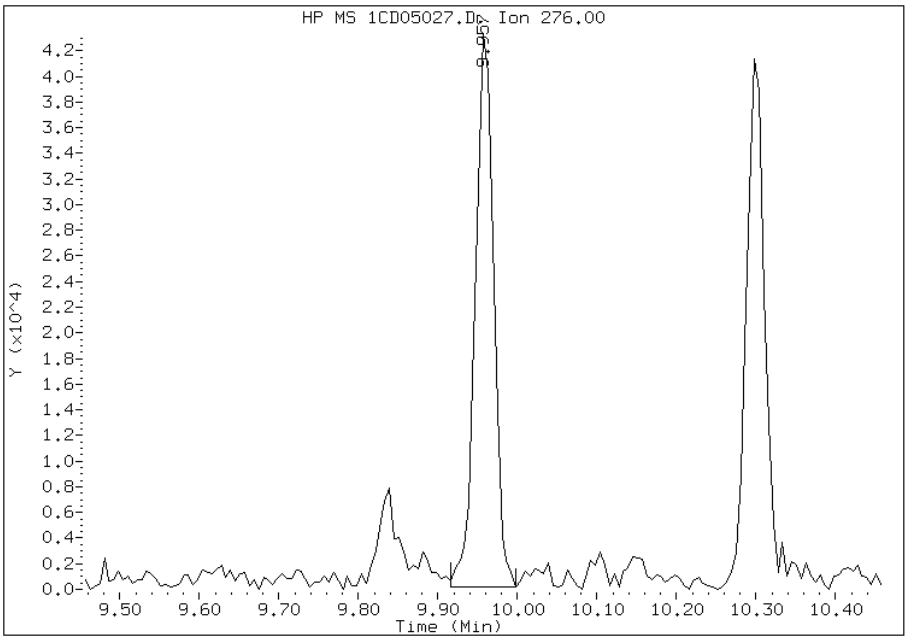
Processing Integration Results

RT: 9.96

Response: 68838

Amount: 3

Conc: 264



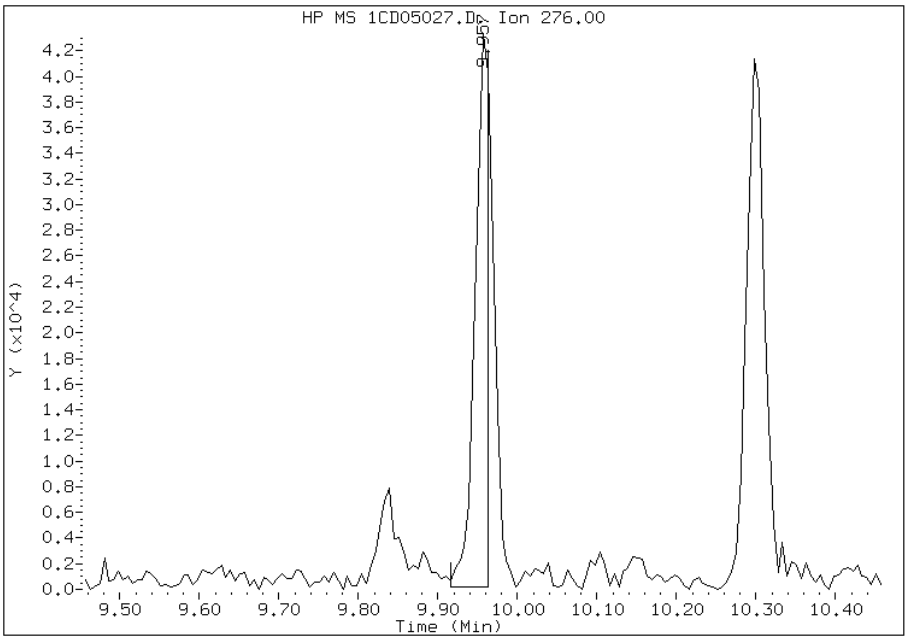
Manual Integration Results

RT: 9.96

Response: 51948

Amount: 2

Conc: 199



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:36
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88767-3

SDG No.: 68088767-3

Client Sample ID: CV0509AG-GS | Lab Sample ID: 680-88767-47

Matrix: Solid | Lab File ID: 1CD05028.D

Analysis Method: 8270C LL | Date Collected: 03/26/2013 12:45

Extract. Method: 3546 | Date Extracted: 04/03/2013 15:12

Sample wt/vol: 15.14(g) | Date Analyzed: 04/05/2013 19:42

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

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

% Moisture: 21.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136171 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	41	J	200	25
120-12-7	Anthracene	110		42	21
56-55-3	Benzo[a]anthracene	420		40	20
50-32-8	Benzo[a]pyrene	320		53	26
205-99-2	Benzo[b]fluoranthene	420		62	31
191-24-2	Benzo[g,h,i]perylene	230		100	22
207-08-9	Benzo[k]fluoranthene	290		40	18
218-01-9	Chrysene	410		46	23
53-70-3	Dibenz(a,h)anthracene	64	J	100	21
206-44-0	Fluoranthene	640		100	20
86-73-7	Fluorene	39	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	190		100	36
90-12-0	1-Methylnaphthalene	57	J	200	22
91-57-6	2-Methylnaphthalene	67	J	200	36
91-20-3	Naphthalene	67	J	200	22
85-01-8	Phenanthrene	390		40	20
129-00-0	Pyrene	560		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	112		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05028.D
Lab Smp Id: 680-88767-A-47-A Client Smp ID: CV0509AG-GS
Inj Date : 05-APR-2013 19:42
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88767-a-47-a
Misc Info : 680-88767-A-47-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m
Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 27
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	15.140	Weight Extracted
M	21.639	% 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	3.692	3.692	(1.000)	528671	40.0000	
* 6 Acenaphthene-d10	164	4.780	4.780	(1.000)	401567	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	765652	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	26004	2.80615	946.1141
* 18 Chrysene-d12	240	7.656	7.662	(1.000)	822354	40.0000	
* 23 Perylene-d12	264	8.827	8.827	(1.000)	800517	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	2683	0.19759	66.6179(Q)
3 2-Methylnaphthalene	142	4.133	4.133	(1.119)	1841	0.19917	67.1519(Q)
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	1402	0.16857	56.8335
5 Acenaphthylene	152	4.692	4.692	(0.982)	2027	0.12196	41.1204
9 Fluorene	166	5.115	5.116	(1.070)	1583	0.11536	38.8932
11 Phenanthrene	178	5.739	5.739	(1.003)	25724	1.15358	388.9364
12 Anthracene	178	5.768	5.774	(1.008)	7223	0.31953	107.7322
13 Carbazole	167	5.880	5.880	(1.028)	3624	0.18713	63.0905(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.568	6.574	(1.148)	46955	1.90666	642.8442
16 Pyrene	202	6.739	6.739	(0.880)	37975	1.66704	562.0557
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	26659	1.25445	422.9482
19 Chrysene	228	7.680	7.680	(1.003)	28336	1.20921	407.6934
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	28452	1.25720	423.8729(M)
21 Benzo(k)fluoranthene	252	8.498	8.509	(0.963)	19067	0.87110	293.6958(M)
22 Benzo(a)pyrene	252	8.774	8.774	(0.994)	20401	0.95749	322.8231
24 Indeno(1,2,3-cd)pyrene	276	9.962	9.962	(1.129)	11291	0.55793	188.1086(M)
25 Dibenzo(a,h)anthracene	278	9.980	9.980	(1.131)	3524	0.18850	63.5552(M)
26 Benzo(g,h,i)perylene	276	10.297	10.303	(1.167)	14127	0.68396	230.6017(M)

QC Flag Legend

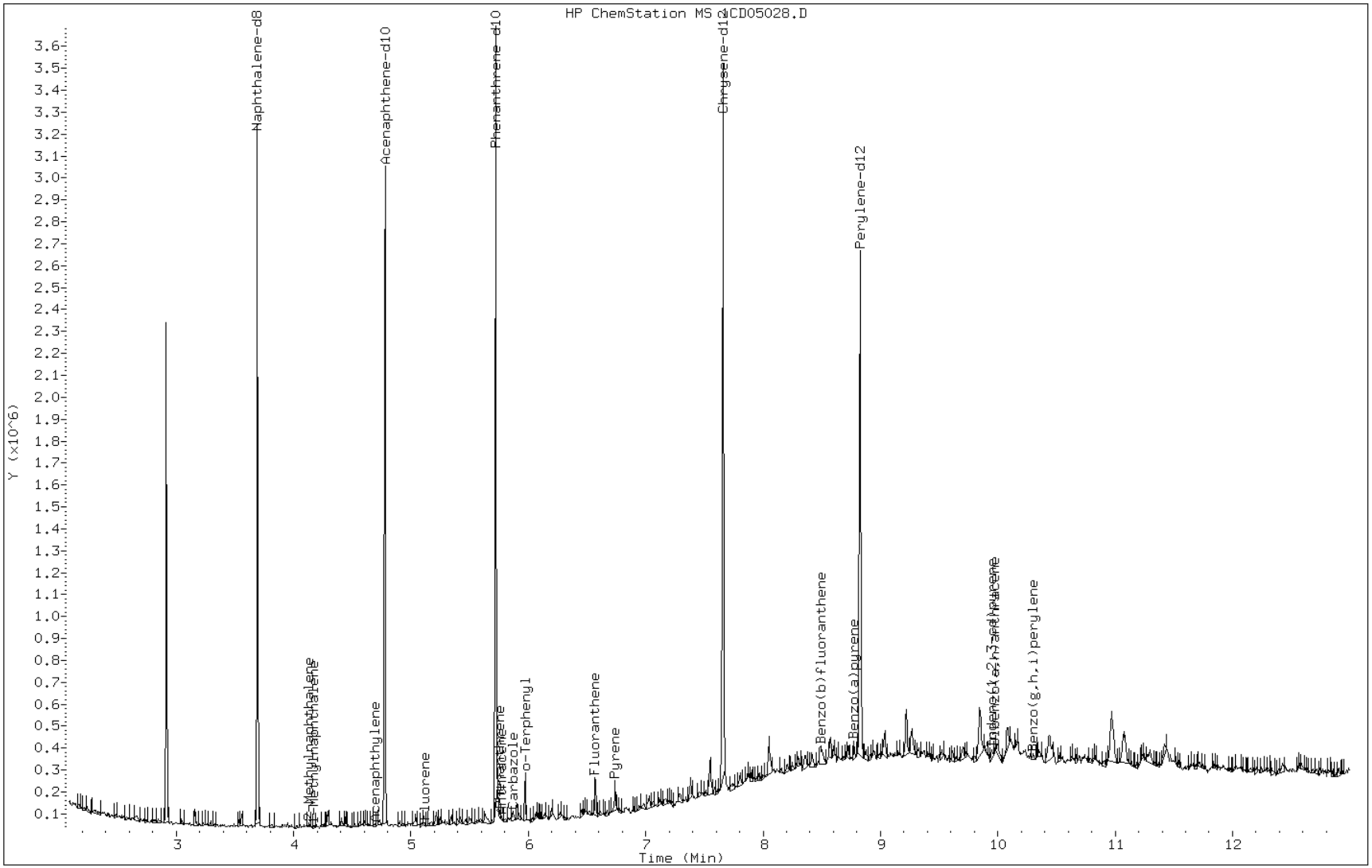
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD05028.D

Date: 05-APR-2013 19:42

Client ID: CV0509AG-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-47-a Operator: SCC



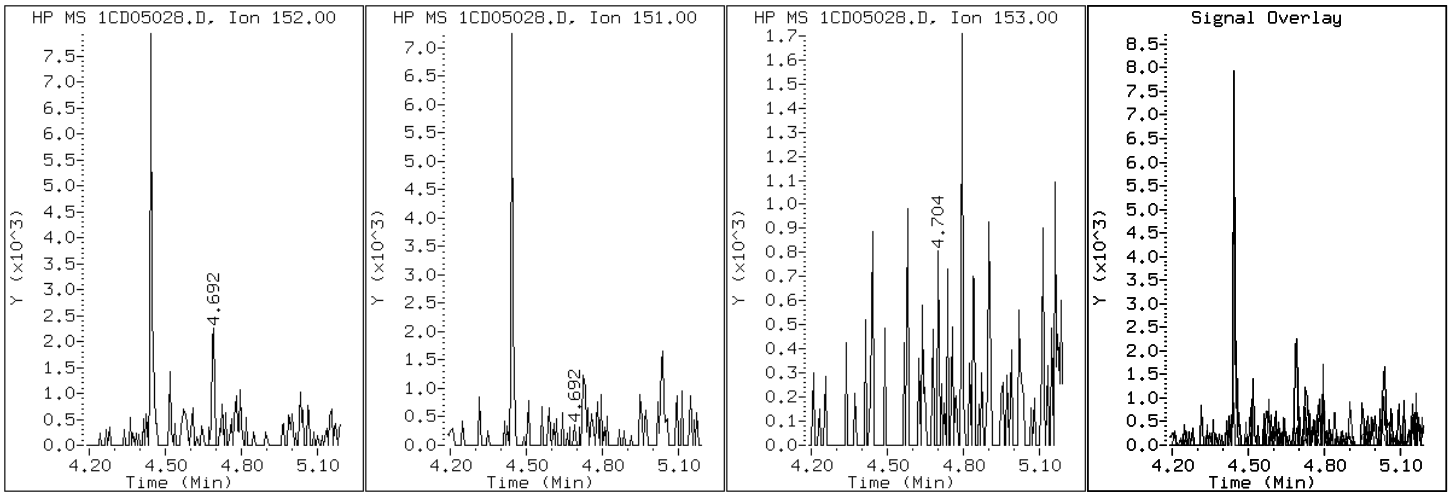
Data File: 1CD05028.D

Date: 05-APR-2013 19:42

Client ID: CV0509AG-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-47-a Operator: SCC

5 Acenaphthylene



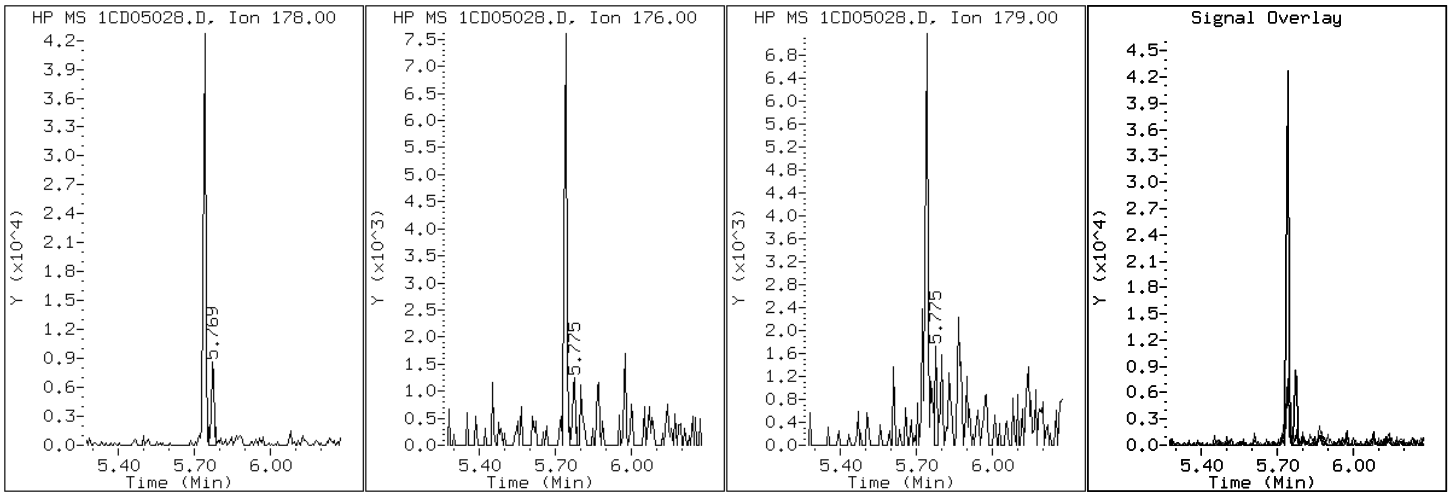
Data File: 1CD05028.D

Date: 05-APR-2013 19:42

Client ID: CV0509AG-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-47-a Operator: SCC

12 Anthracene



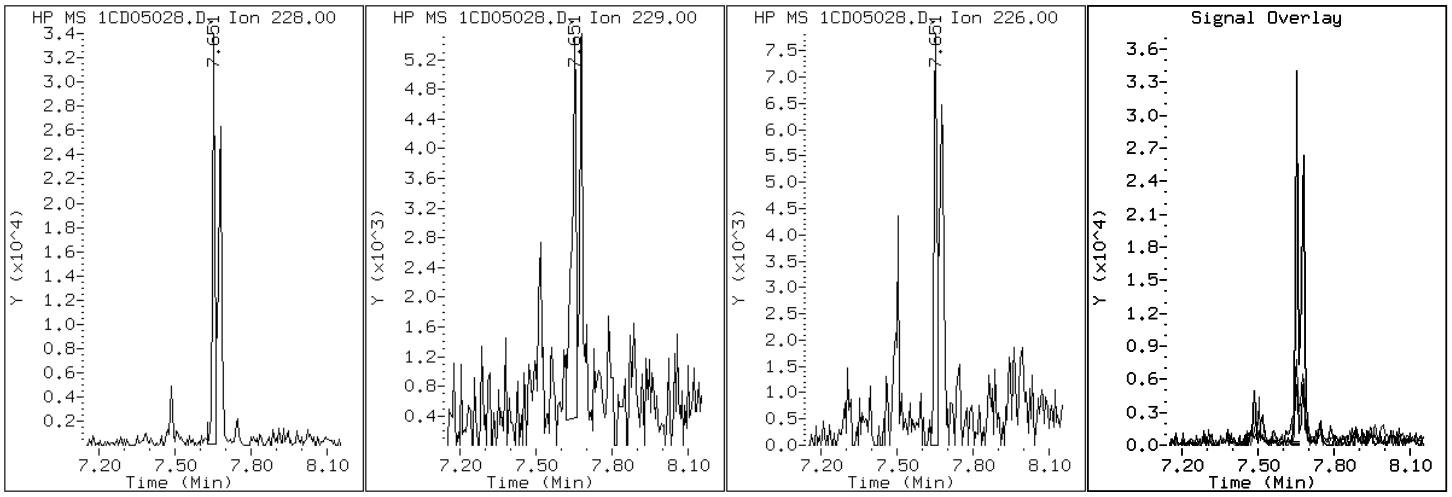
Data File: 1CD05028.D

Date: 05-APR-2013 19:42

Client ID: CV0509AG-GS | Instrument: BSMC5973.i

Sample Info: 680-88767-a-47-a | Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD05028.D

Date: 05-APR-2013 19:42

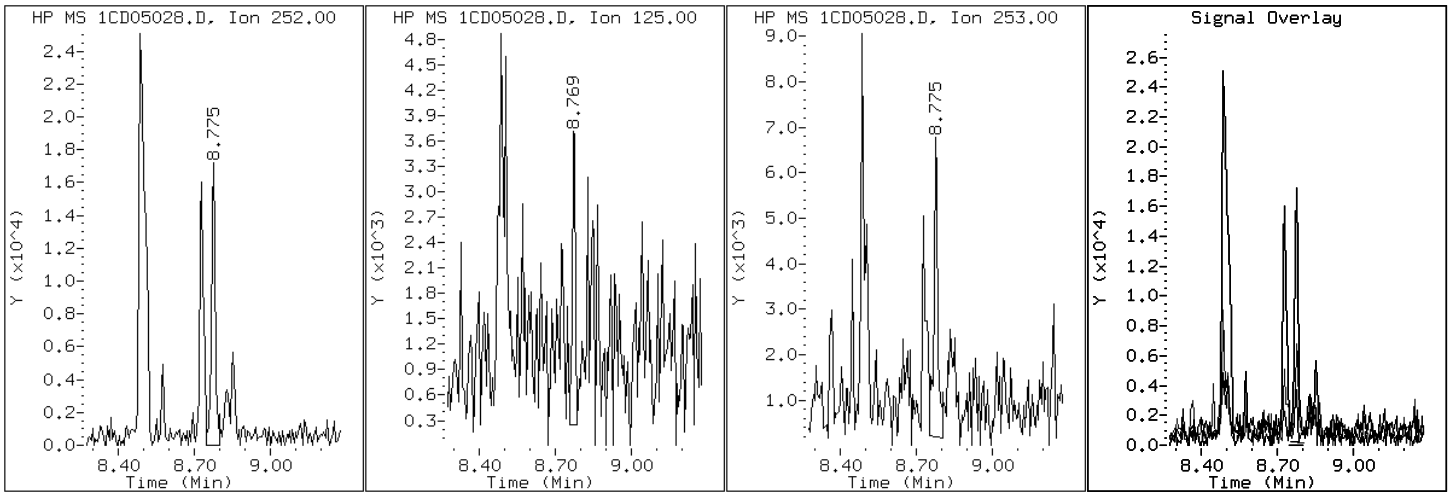
Client ID: CV0509AG-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-47-a

Operator: SCC

22 Benzo(a)pyrene



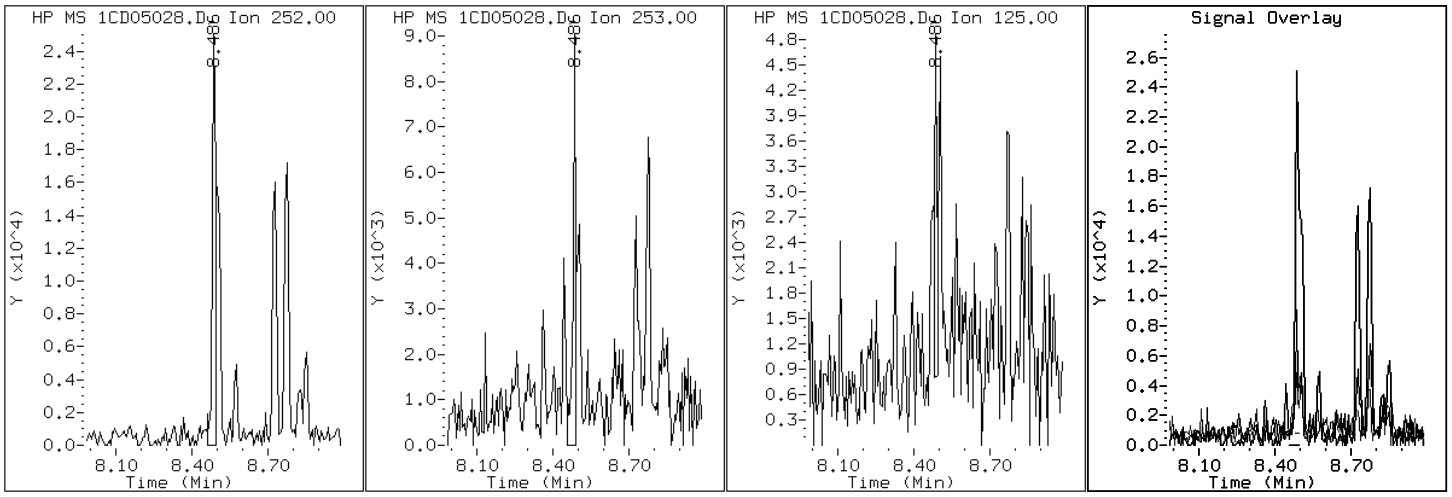
Data File: 1CD05028.D

Date: 05-APR-2013 19:42

Client ID: CV0509AG-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-47-a Operator: SCC

20 Benzo(b)fluoranthene



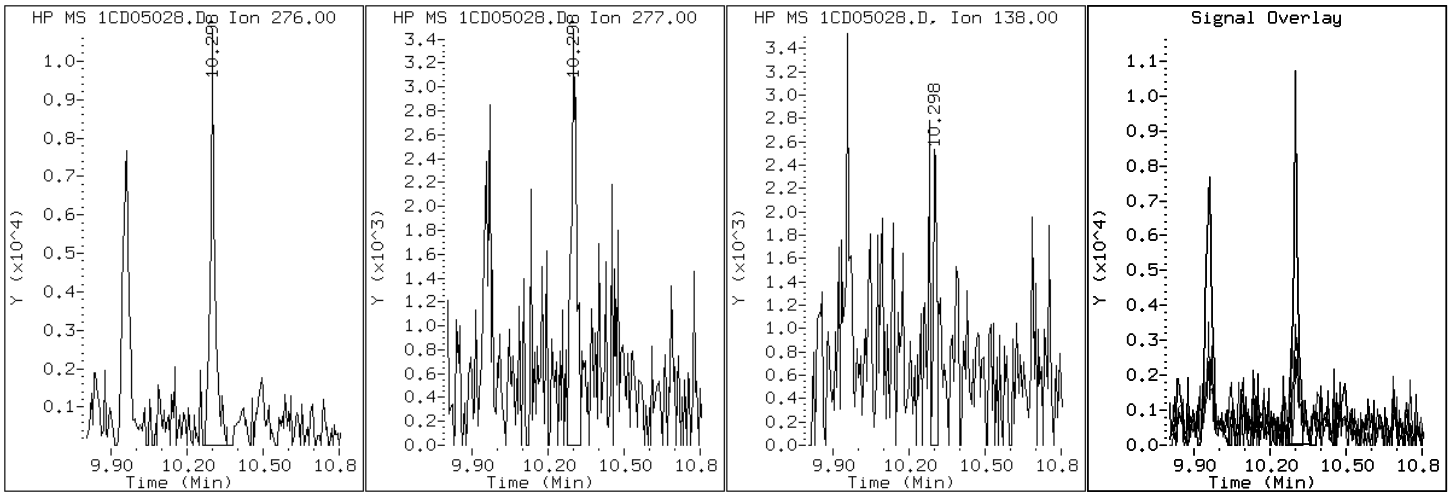
Data File: 1CD05028.D

Date: 05-APR-2013 19:42

Client ID: CV0509AG-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-47-a Operator: SCC

26 Benzo(g,h,i)perylene



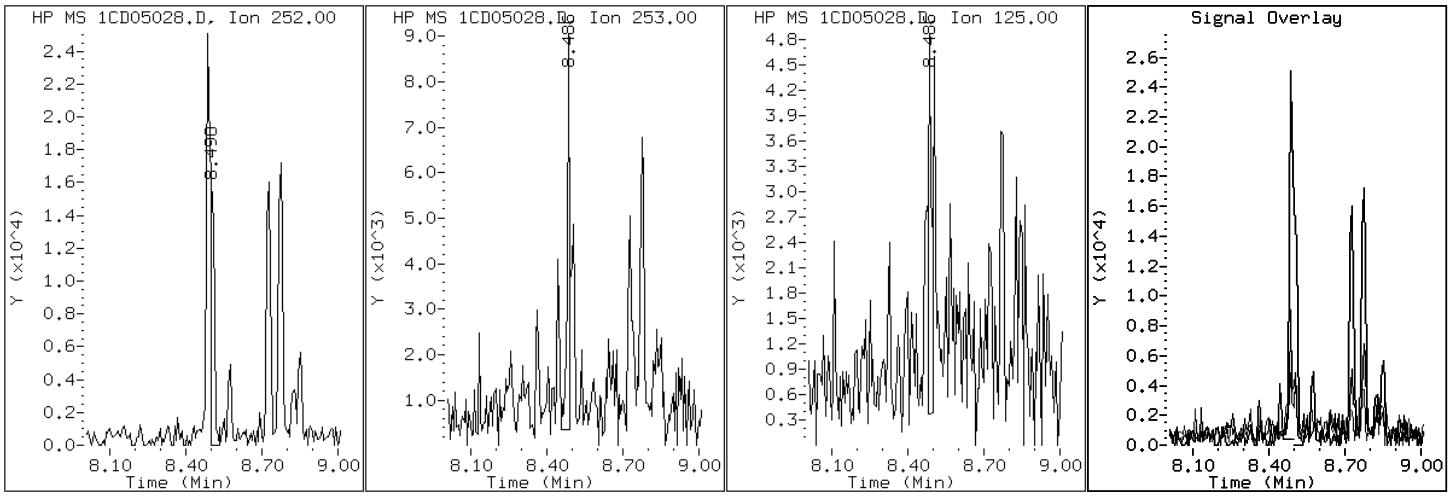
Data File: 1CD05028.D

Date: 05-APR-2013 19:42

Client ID: CV0509AG-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-47-a Operator: SCC

21 Benzo(k)fluoranthene



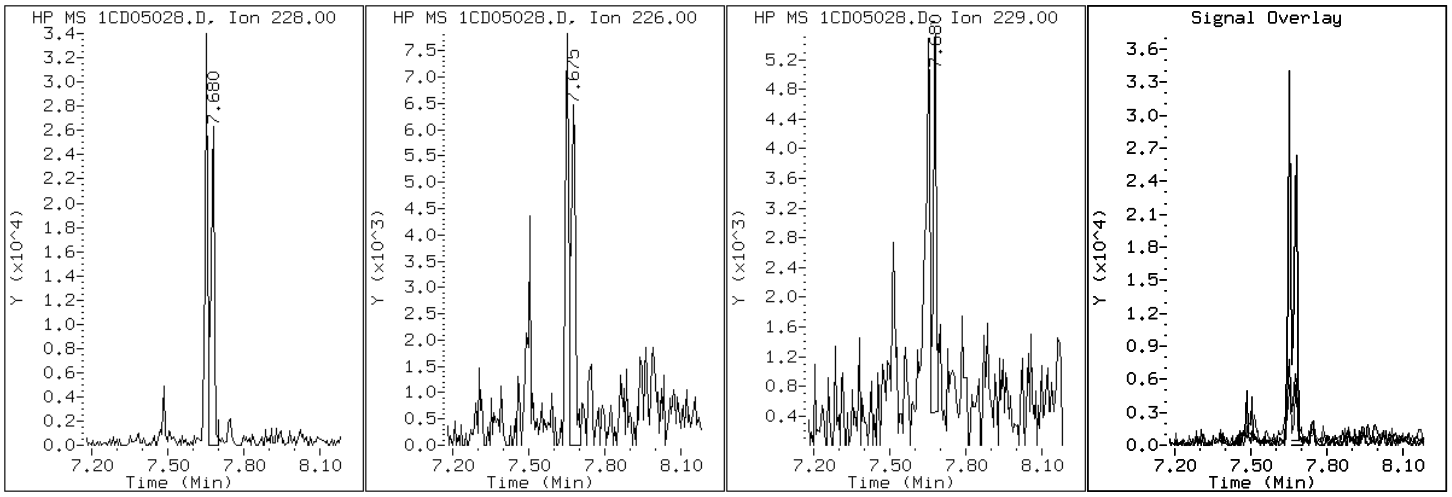
Data File: 1CD05028.D

Date: 05-APR-2013 19:42

Client ID: CV0509AG-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-47-a Operator: SCC

19 Chrysene



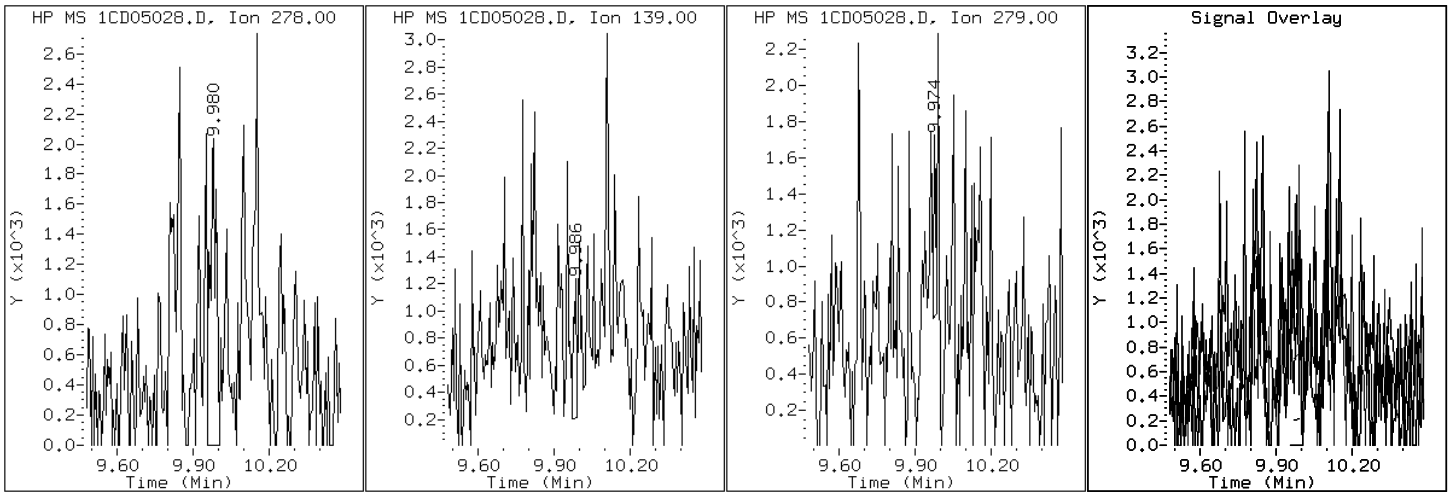
Data File: 1CD05028.D

Date: 05-APR-2013 19:42

Client ID: CV0509AG-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-47-a Operator: SCC

25 Dibenzo(a,h)anthracene



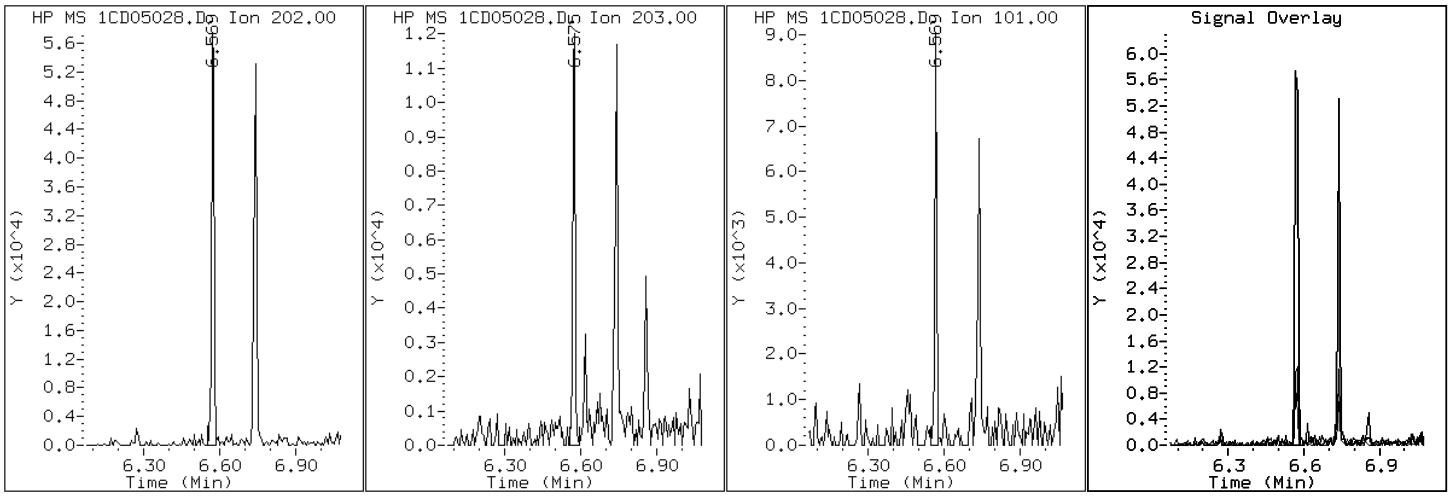
Data File: 1CD05028.D

Date: 05-APR-2013 19:42

Client ID: CV0509AG-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-47-a Operator: SCC

15 Fluoranthene



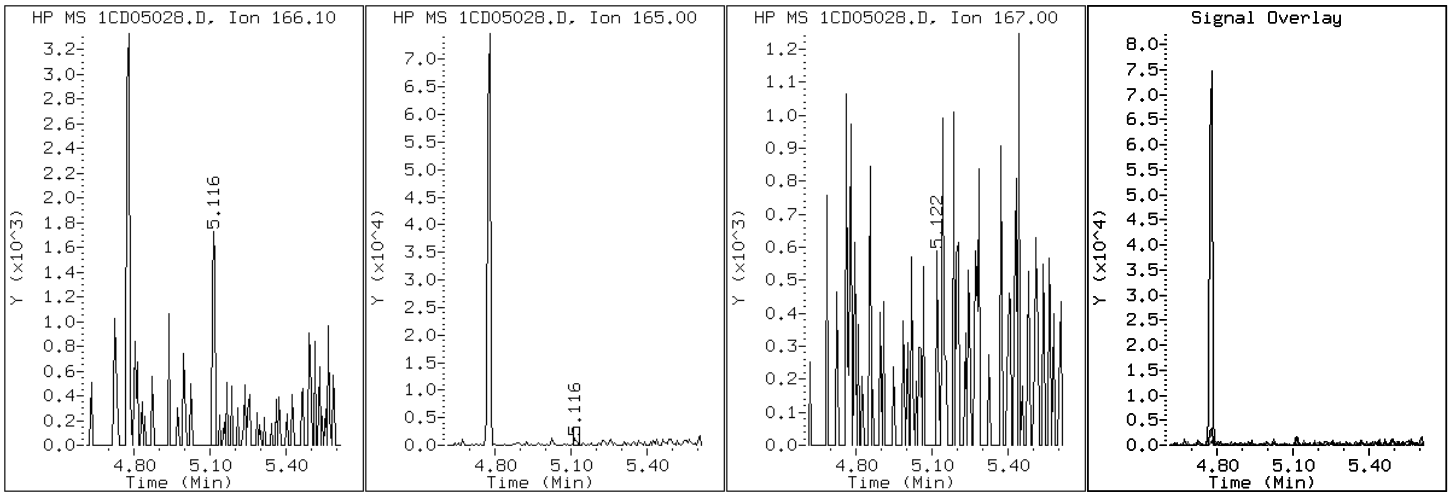
Data File: 1CD05028.D

Date: 05-APR-2013 19:42

Client ID: CV0509AG-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-47-a Operator: SCC

9 Fluorene



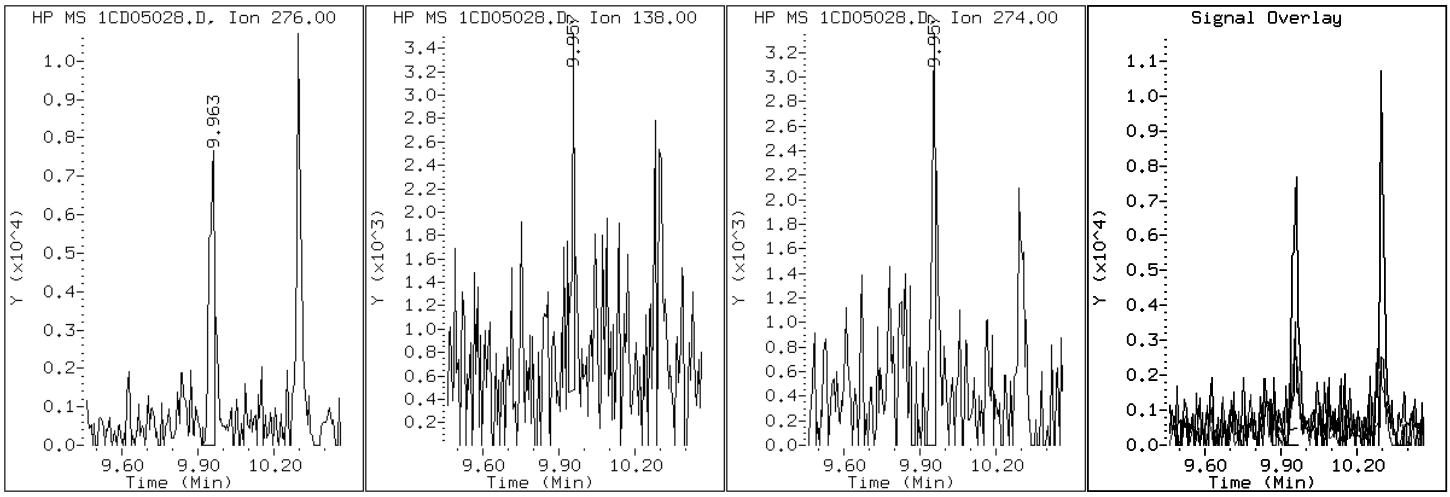
Data File: 1CD05028.D

Date: 05-APR-2013 19:42

Client ID: CV0509AG-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-47-a Operator: SCC

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



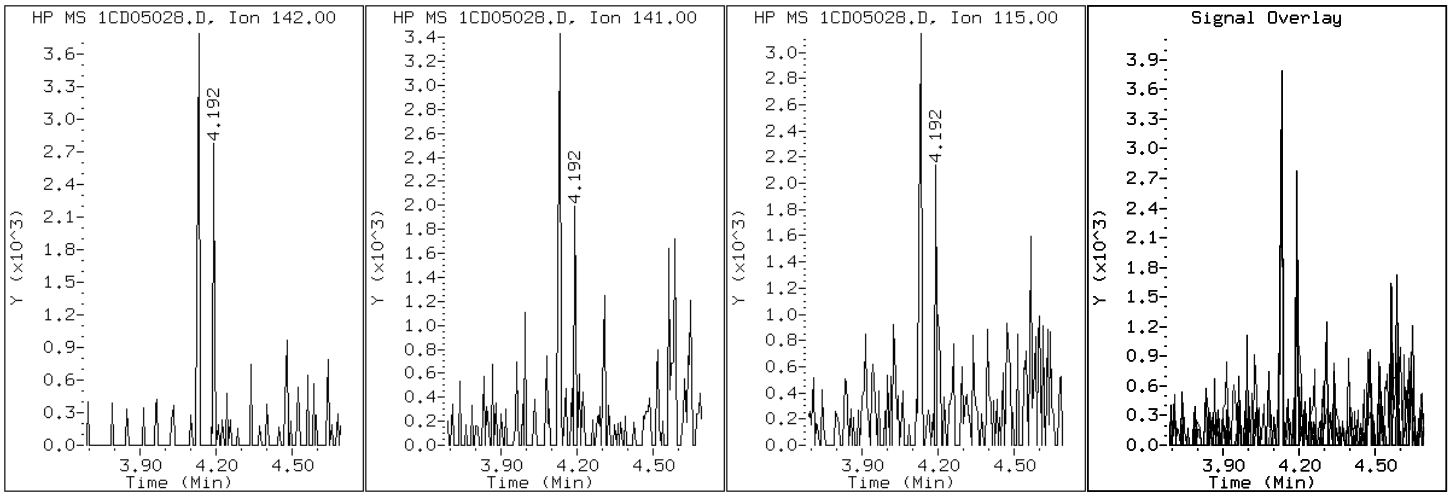
Data File: 1CD05028.D

Date: 05-APR-2013 19:42

Client ID: CV0509AG-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-47-a Operator: SCC

4 1-Methylnaphthalene



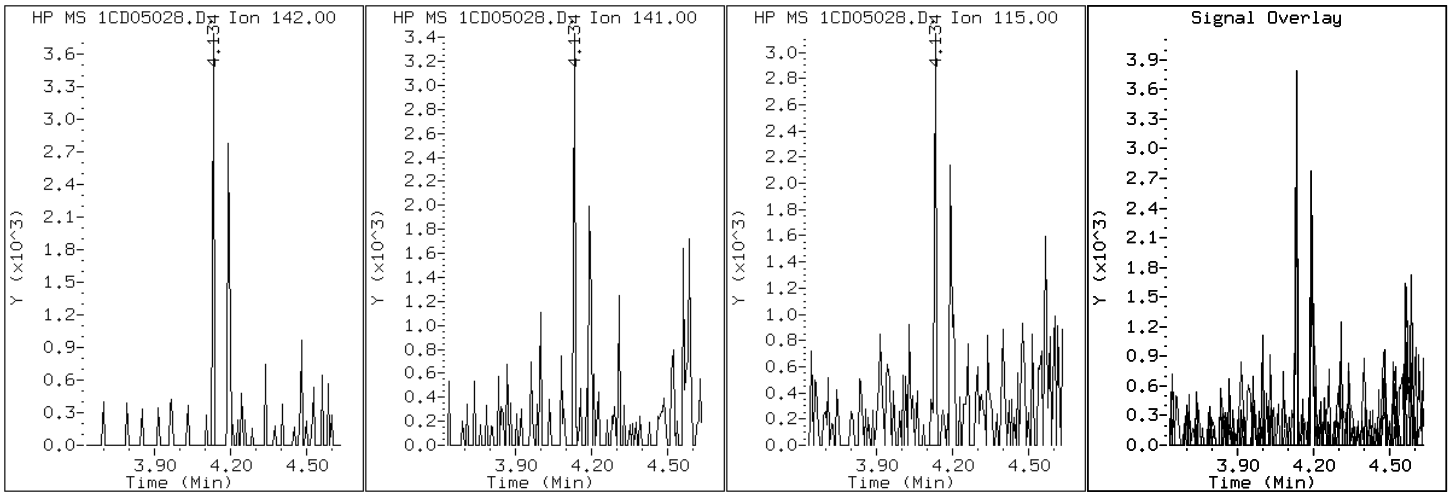
Data File: 1CD05028.D

Date: 05-APR-2013 19:42

Client ID: CV0509AG-GS | Instrument: BSMC5973.i

Sample Info: 680-88767-a-47-a | Operator: SCC

3 2-Methylnaphthalene



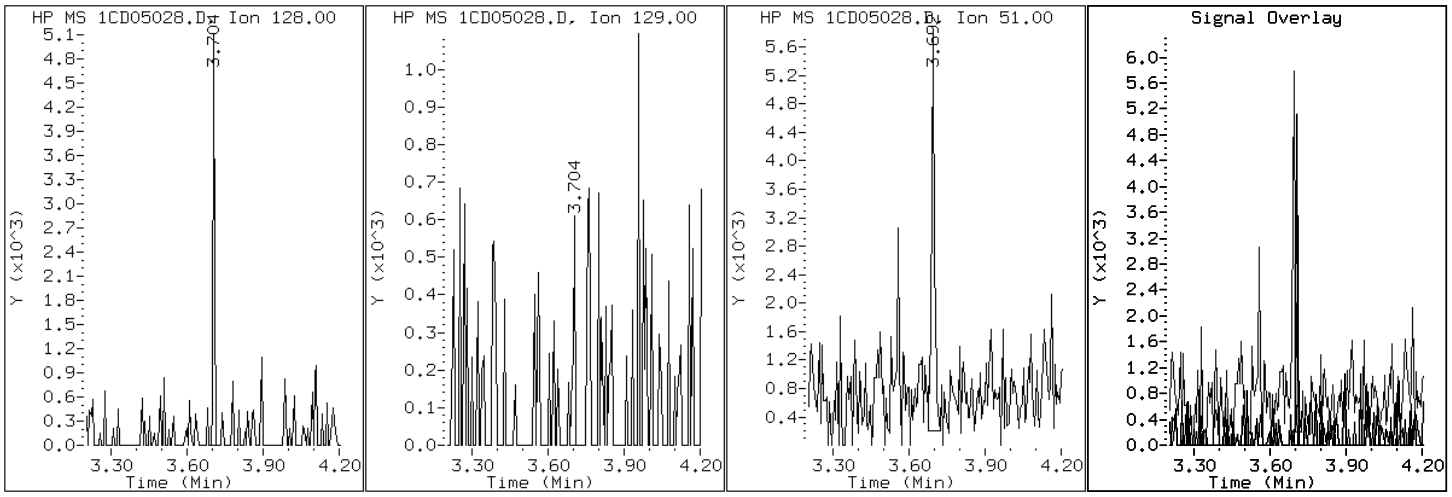
Data File: 1CD05028.D

Date: 05-APR-2013 19:42

Client ID: CV0509AG-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-47-a Operator: SCC

2 Naphthalene



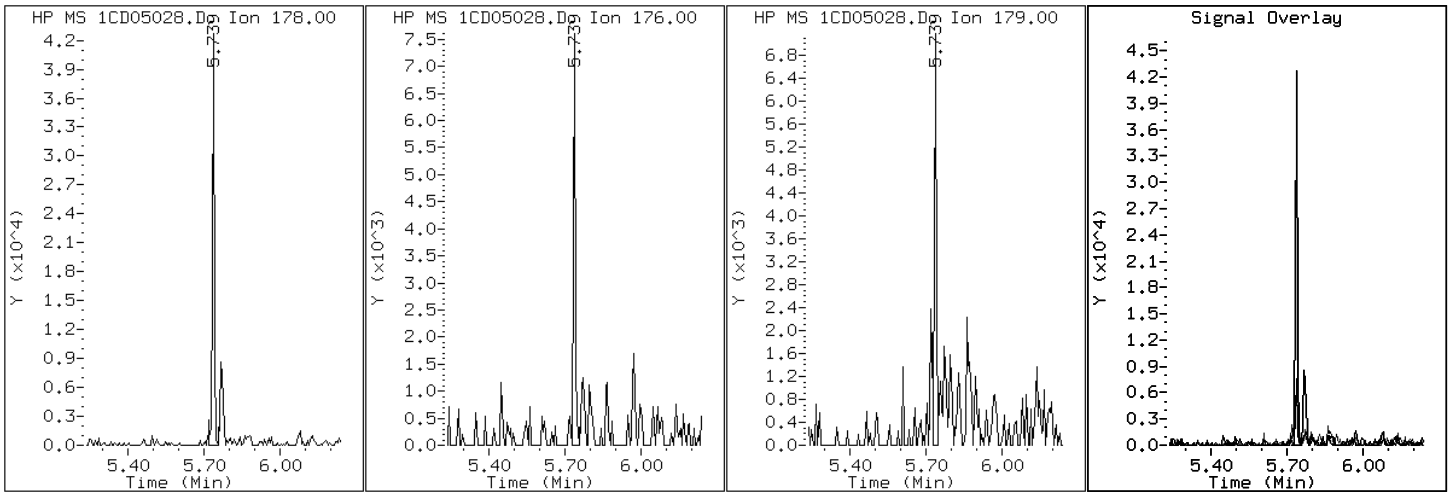
Data File: 1CD05028.D

Date: 05-APR-2013 19:42

Client ID: CV0509AG-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-47-a Operator: SCC

11 Phenanthrene



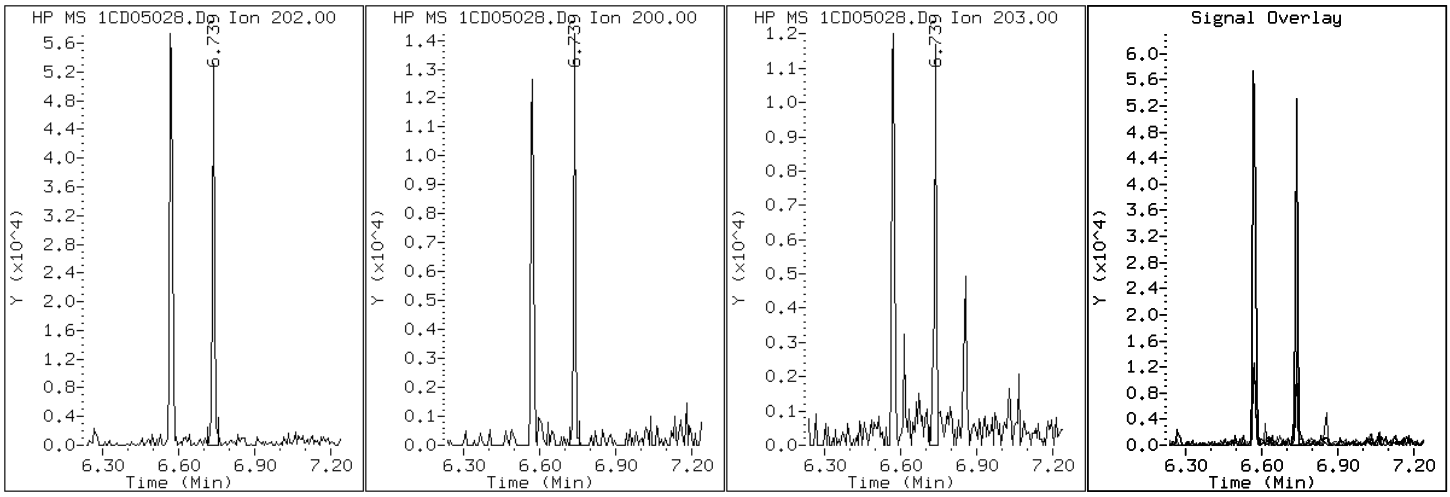
Data File: 1CD05028.D

Date: 05-APR-2013 19:42

Client ID: CV0509AG-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-47-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD05028.D
Inj. Date and Time: 05-APR-2013 19:42
Instrument ID: BSMC5973.i
Client ID: CV0509AG-GS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/09/2013

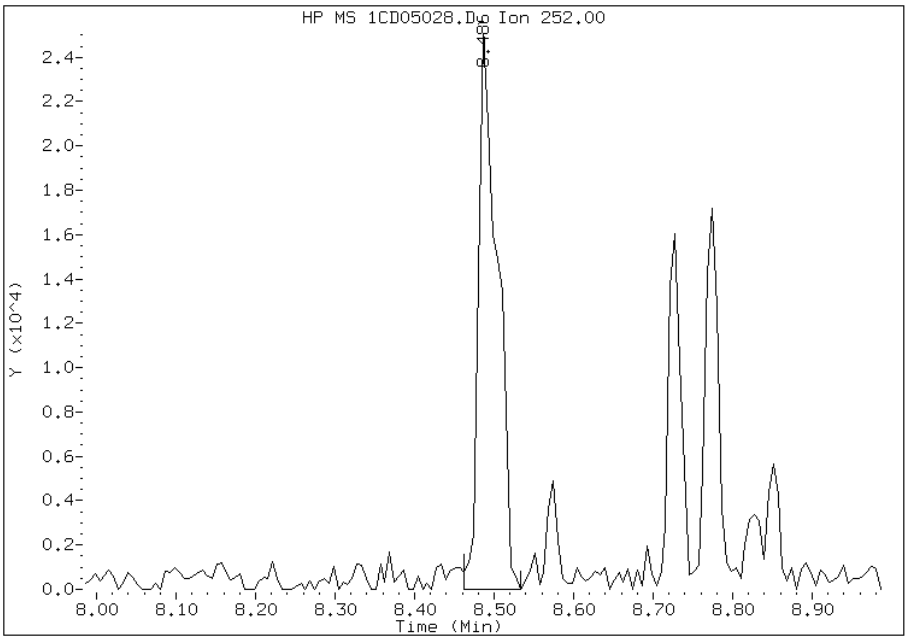
Processing Integration Results

RT: 8.49

Response: 41871

Amount: 2

Conc: 624



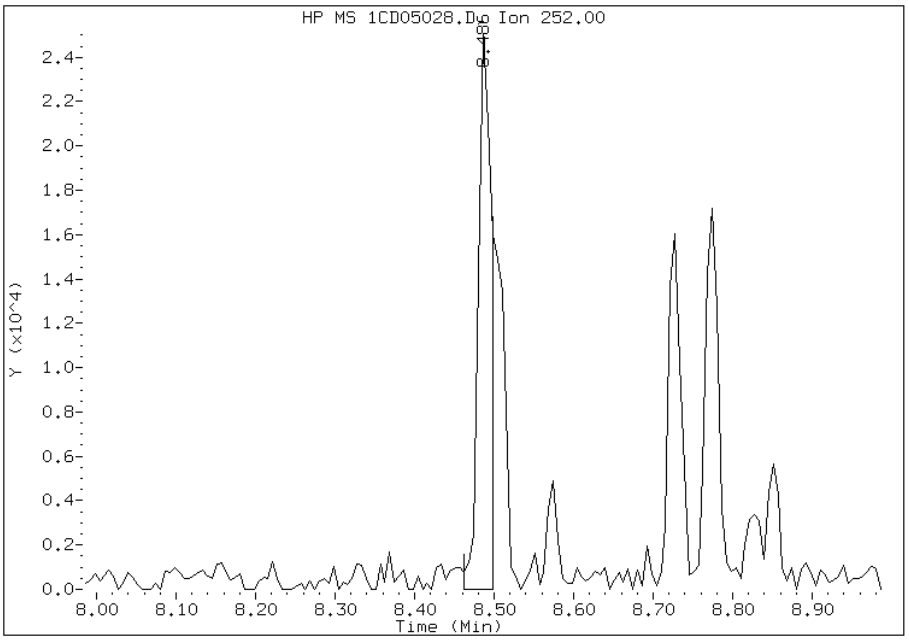
Manual Integration Results

RT: 8.49

Response: 28452

Amount: 1

Conc: 424



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:37
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD05028.D
Inj. Date and Time: 05-APR-2013 19:42
Instrument ID: BSMC5973.i
Client ID: CV0509AG-GS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/09/2013

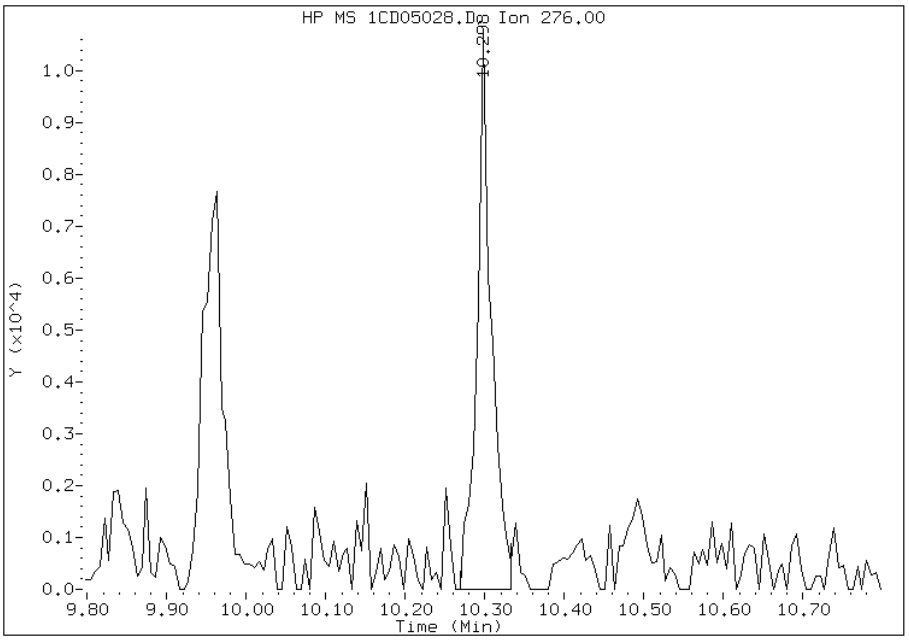
Processing Integration Results

RT: 10.30

Response: 13587

Amount: 1

Conc: 222



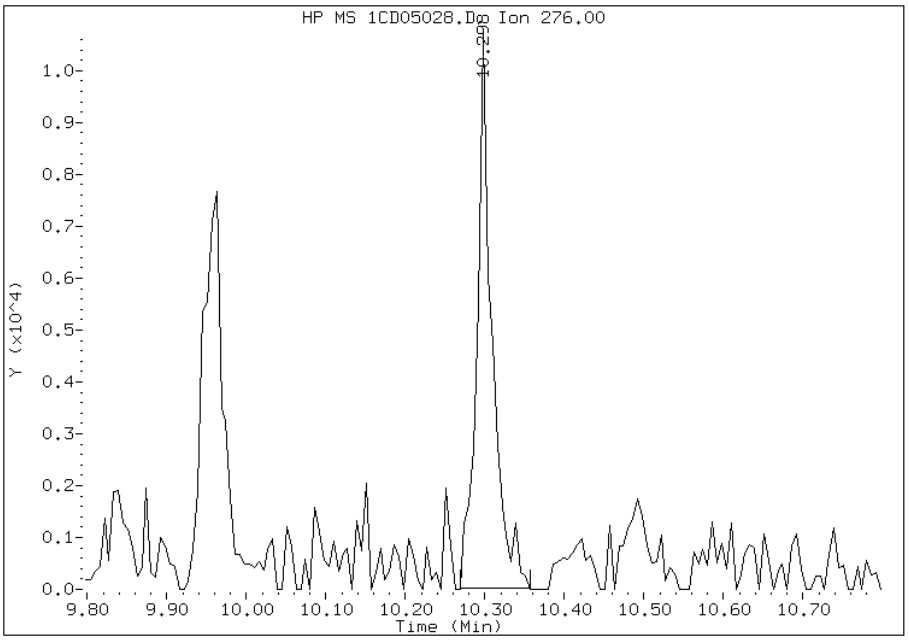
Manual Integration Results

RT: 10.30

Response: 14127

Amount: 1

Conc: 231



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD05028.D
Inj. Date and Time: 05-APR-2013 19:42
Instrument ID: BSMC5973.i
Client ID: CV0509AG-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/09/2013

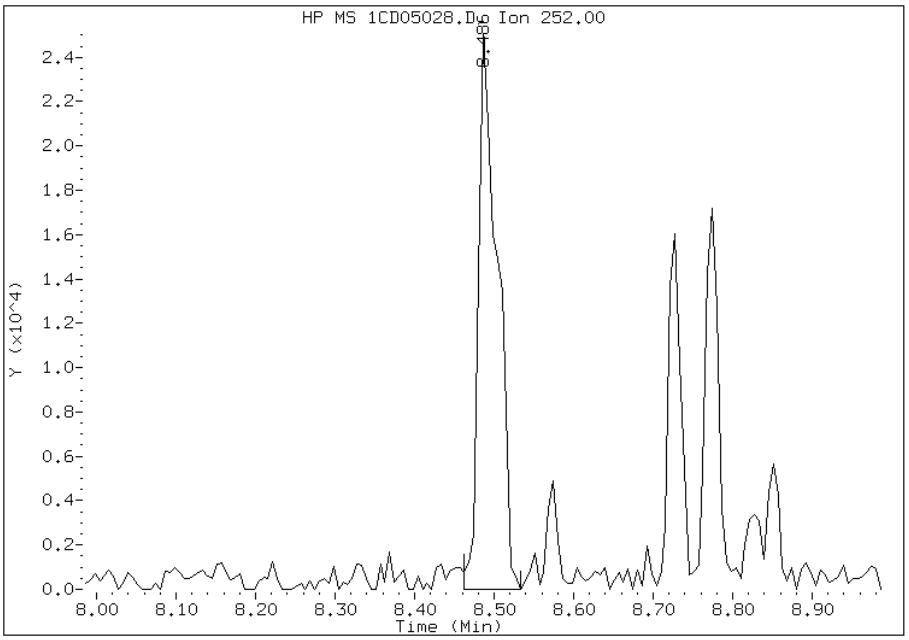
Processing Integration Results

RT: 8.49

Response: 41871

Amount: 2

Conc: 645



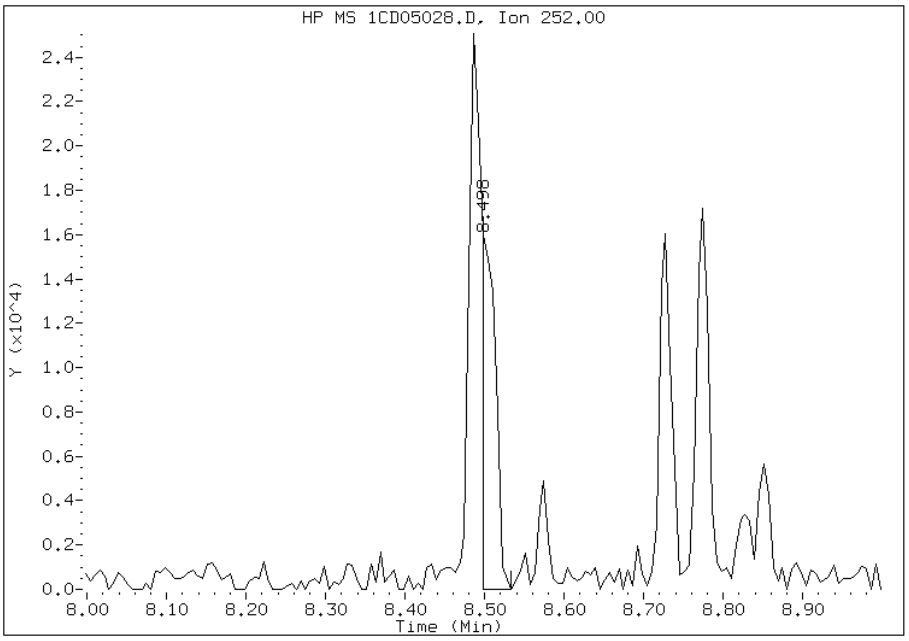
Manual Integration Results

RT: 8.50

Response: 19067

Amount: 1

Conc: 294



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD05028.D
Inj. Date and Time: 05-APR-2013 19:42
Instrument ID: BSMC5973.i
Client ID: CV0509AG-GS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/09/2013

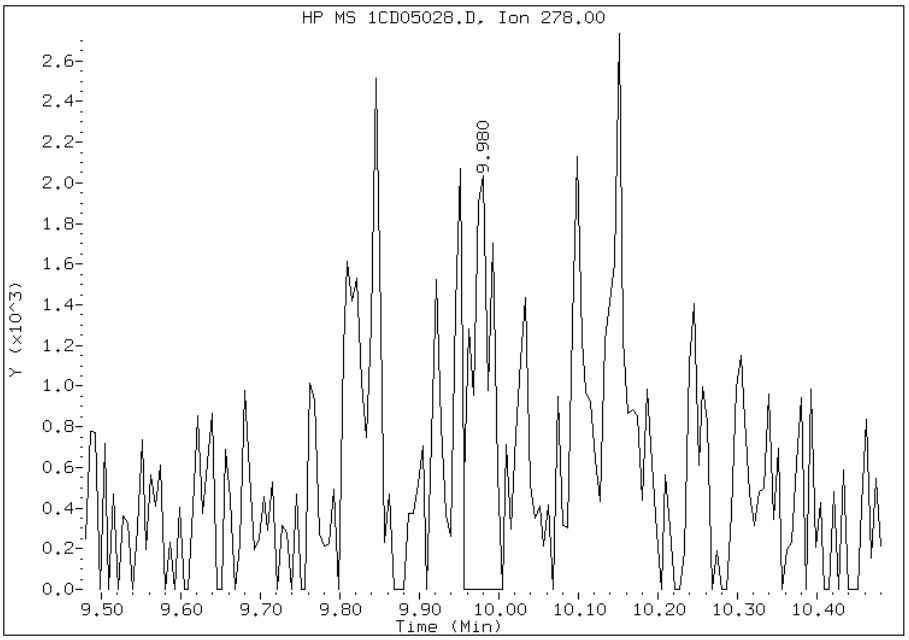
Processing Integration Results

RT: 9.98

Response: 3518

Amount: 0

Conc: 63



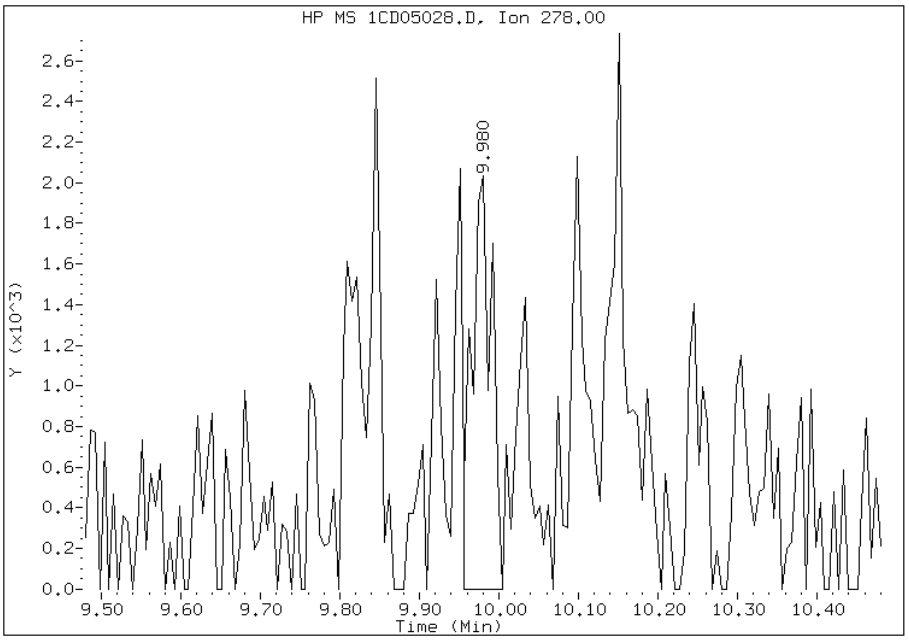
Manual Integration Results

RT: 9.98

Response: 3524

Amount: 0

Conc: 64



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD05028.D
Inj. Date and Time: 05-APR-2013 19:42
Instrument ID: BSMC5973.i
Client ID: CV0509AG-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

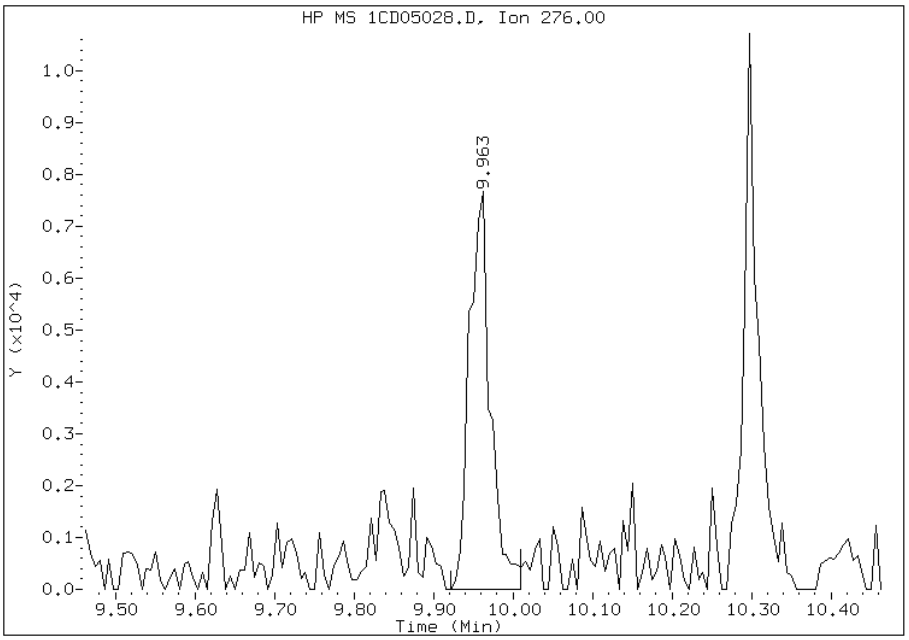
Processing Integration Results

RT: 9.96

Response: 14037

Amount: 1

Conc: 234



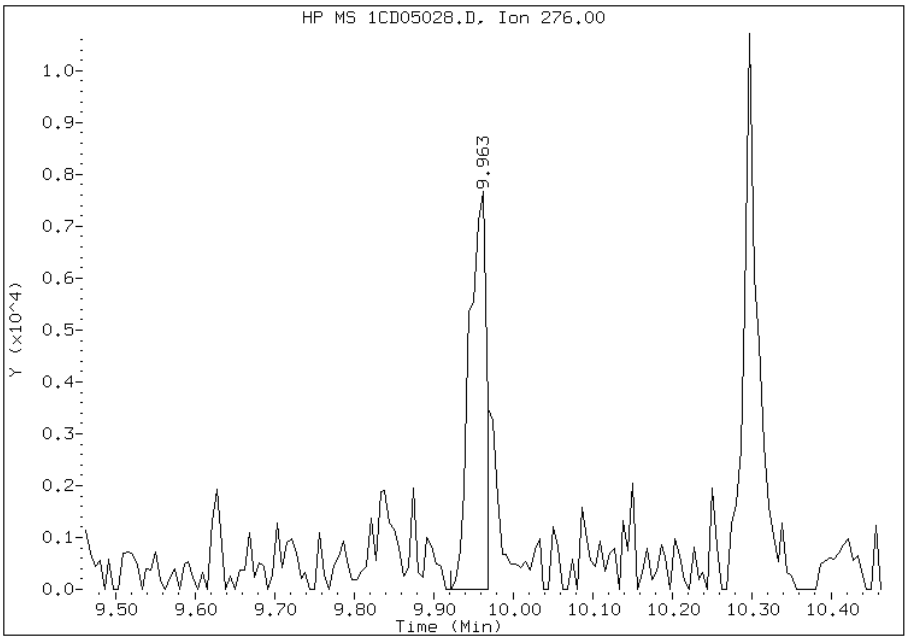
Manual Integration Results

RT: 9.96

Response: 11291

Amount: 1

Conc: 188



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:37
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88767-3

SDG No.: 68088767-3

Client Sample ID: CV0509AH-GS | Lab Sample ID: 680-88767-48

Matrix: Solid | Lab File ID: 1CD05029.D

Analysis Method: 8270C LL | Date Collected: 03/26/2013 12:50

Extract. Method: 3546 | Date Extracted: 04/03/2013 15:12

Sample wt/vol: 15.01(g) | Date Analyzed: 04/05/2013 20:00

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

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

% Moisture: 23.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136171 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	49	J	210	26
120-12-7	Anthracene	170		44	22
56-55-3	Benzo[a]anthracene	680		42	20
50-32-8	Benzo[a]pyrene	550		54	27
205-99-2	Benzo[b]fluoranthene	730		64	32
191-24-2	Benzo[g,h,i]perylene	400		100	23
207-08-9	Benzo[k]fluoranthene	340		42	19
218-01-9	Chrysene	600		47	23
53-70-3	Dibenz(a,h)anthracene	130		100	21
206-44-0	Fluoranthene	1100		100	21
86-73-7	Fluorene	72	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	310		100	37
90-12-0	1-Methylnaphthalene	78	J	210	23
91-57-6	2-Methylnaphthalene	97	J	210	37
91-20-3	Naphthalene	89	J	210	23
85-01-8	Phenanthrene	790		42	20
129-00-0	Pyrene	1000		100	19

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\1C040513.b\1CD05029.D
Lab Smp Id: 680-88767-A-48-A Client Smp ID: CV0509AH-GS
Inj Date : 05-APR-2013 20:00
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88767-a-48-a
Misc Info : 680-88767-A-48-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m
Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 28
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.010	Weight Extracted
M	23.333	% 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	3.692	3.692	(1.000)	547229	40.0000	
* 6 Acenaphthene-d10	164	4.780	4.780	(1.000)	411642	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	774679	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	17538	2.11237	734.2487
* 18 Chrysene-d12	240	7.656	7.662	(1.000)	802957	40.0000	
* 23 Perylene-d12	264	8.827	8.827	(1.000)	764958	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	3595	0.25577	88.9050(Q)
3 2-Methylnaphthalene	142	4.133	4.133	(1.119)	2672	0.27927	97.0729
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	1921	0.22314	77.5604
5 Acenaphthylene	152	4.692	4.692	(0.982)	2385	0.13999	48.6599
9 Fluorene	166	5.115	5.116	(1.070)	2912	0.20701	71.9553
11 Phenanthrene	178	5.739	5.739	(1.003)	50958	2.25855	785.0596
12 Anthracene	178	5.768	5.774	(1.008)	10920	0.47745	165.9589
13 Carbazole	167	5.880	5.880	(1.028)	6967	0.35555	123.5868

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.568	6.574	(1.148)	82381	3.30619	1149.2143
16 Pyrene	202	6.739	6.739	(0.880)	66523	2.99080	1039.5859
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	42203	1.94959	677.6673
19 Chrysene	228	7.674	7.680	(1.002)	39700	1.73508	603.1046
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	45241	2.09197	727.1574
21 Benzo(k)fluoranthene	252	8.503	8.509	(0.963)	20592	0.98450	342.2058
22 Benzo(a)pyrene	252	8.768	8.774	(0.993)	32032	1.57325	546.8531
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.962	(1.128)	17095	0.88399	307.2690(M)
25 Dibenzo(a,h)anthracene	278	9.974	9.980	(1.130)	6617	0.37041	128.7507
26 Benzo(g,h,i)perylene	276	10.303	10.303	(1.167)	22579	1.14398	397.6405(M)

QC Flag Legend

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

Data File: 1CD05029.D

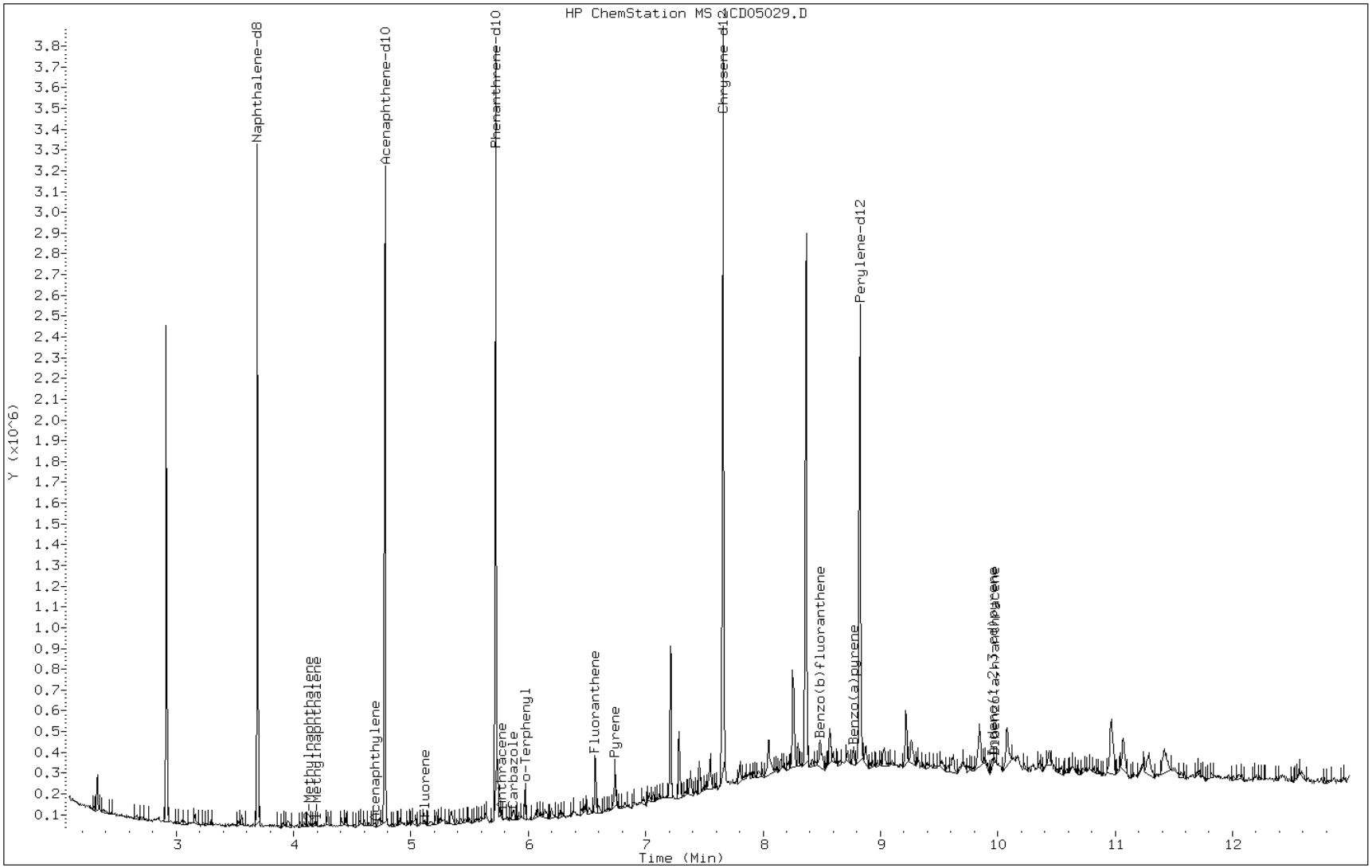
Date: 05-APR-2013 20:00

Client ID: CV0509AH-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-48-a

Operator: SCC



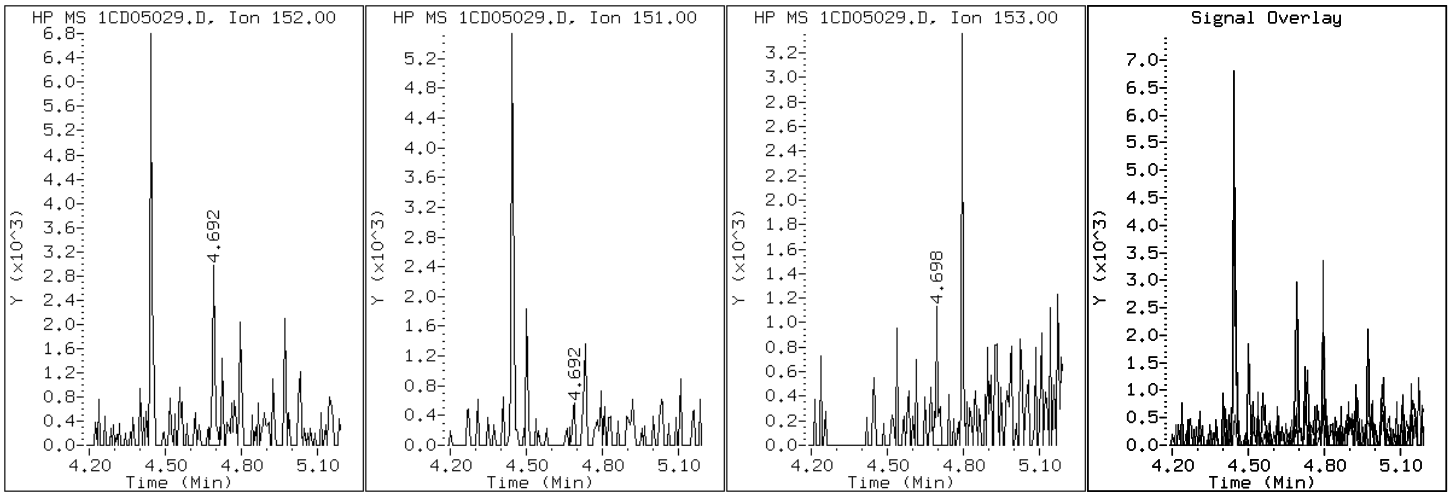
Data File: 1CD05029.D

Date: 05-APR-2013 20:00

Client ID: CV0509AH-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-48-a Operator: SCC

5 Acenaphthylene



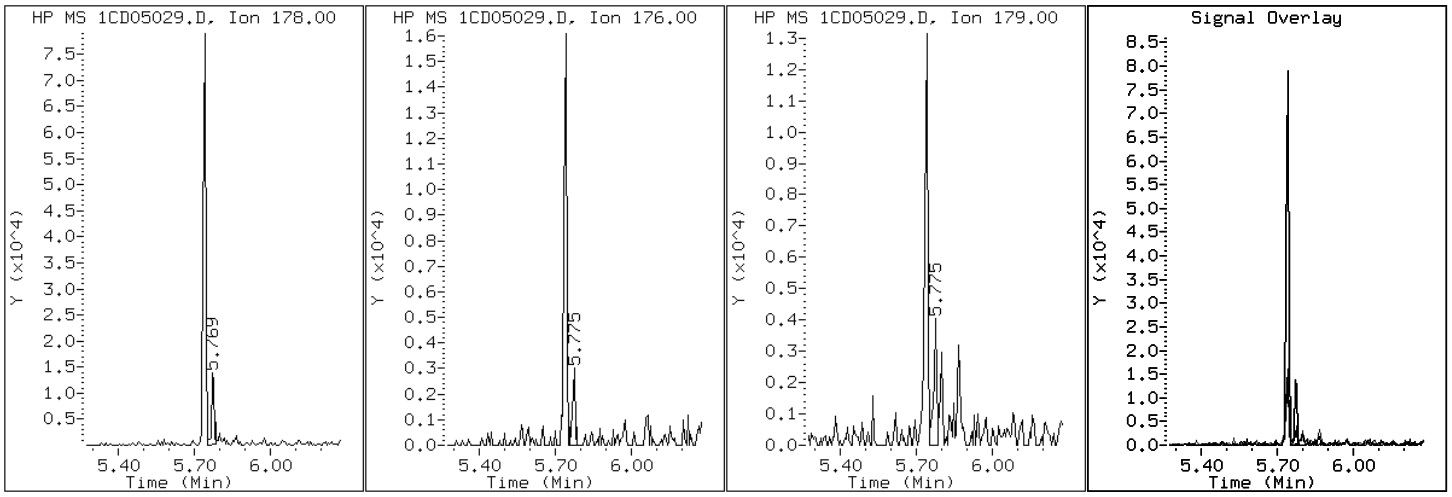
Data File: 1CD05029.D

Date: 05-APR-2013 20:00

Client ID: CV0509AH-GS | Instrument: BSMC5973.i

Sample Info: 680-88767-a-48-a | Operator: SCC

12 Anthracene



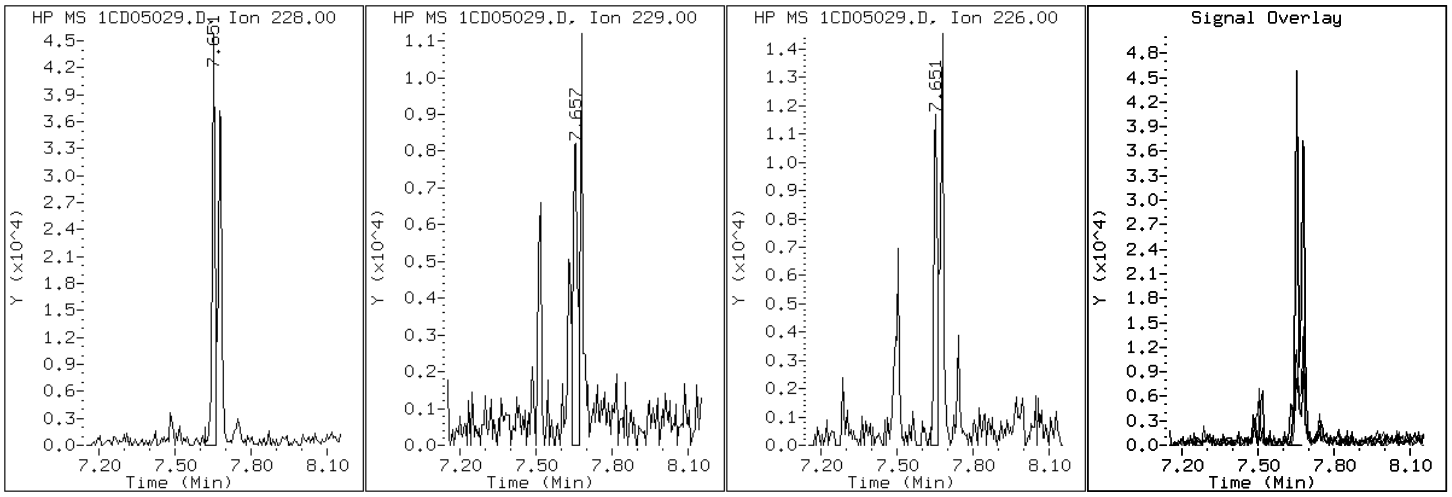
Data File: 1CD05029.D

Date: 05-APR-2013 20:00

Client ID: CV0509AH-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-48-a Operator: SCC

17 Benzo(a)anthracene



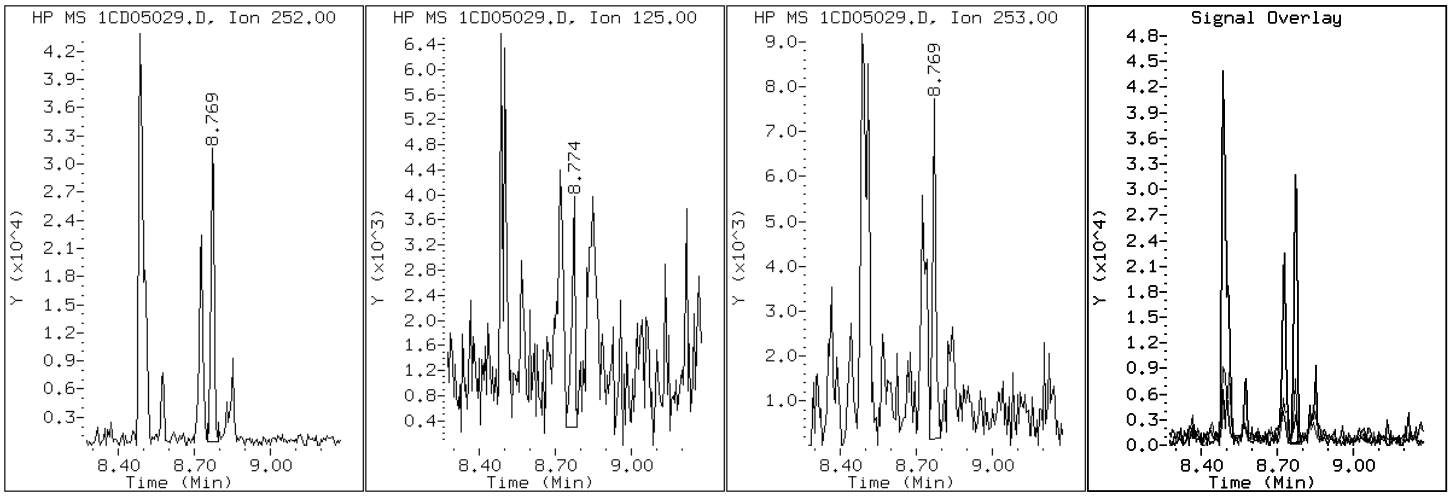
Data File: 1CD05029.D

Date: 05-APR-2013 20:00

Client ID: CV0509AH-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-48-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD05029.D

Date: 05-APR-2013 20:00

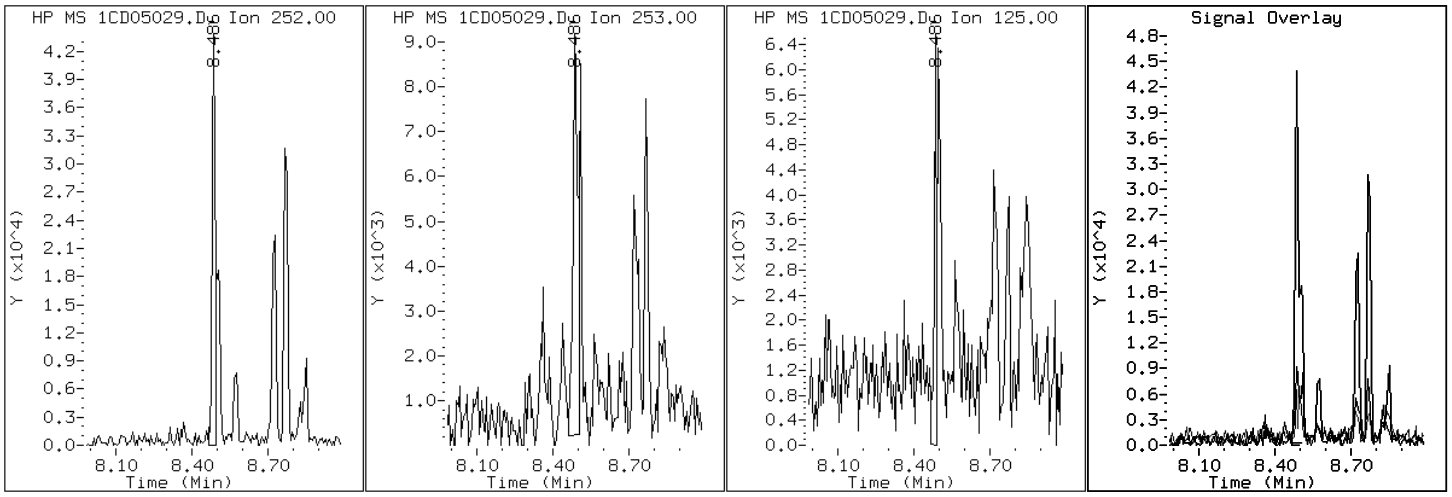
Client ID: CV0509AH-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-48-a

Operator: SCC

20 Benzo(b)fluoranthene



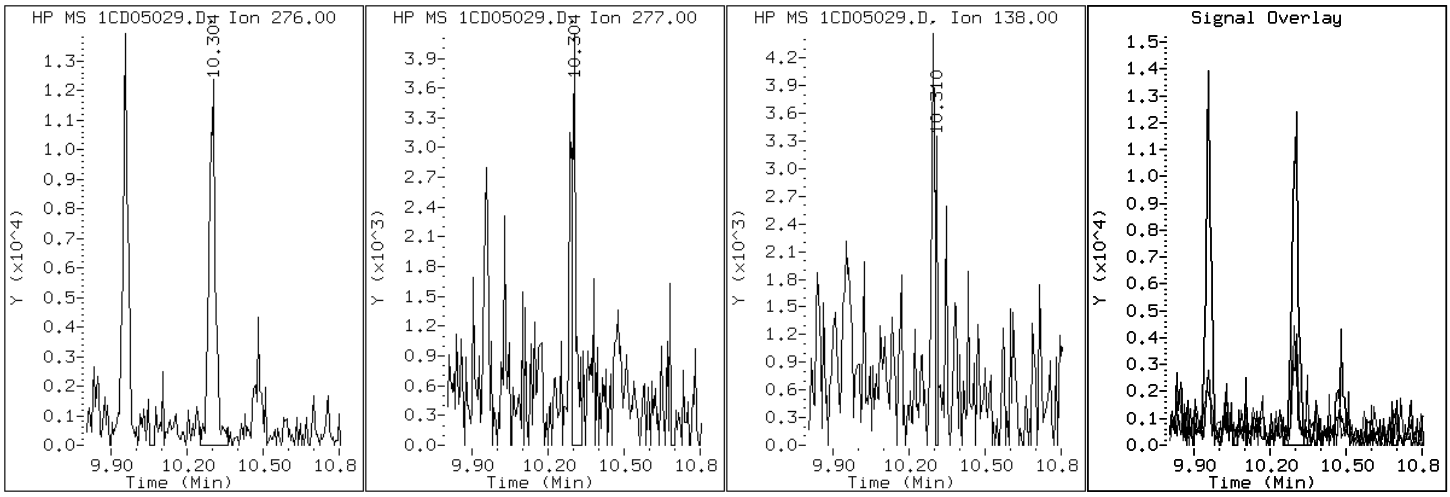
Data File: 1CD05029.D

Date: 05-APR-2013 20:00

Client ID: CV0509AH-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-48-a Operator: SCC

26 Benzo(g,h,i)perylene



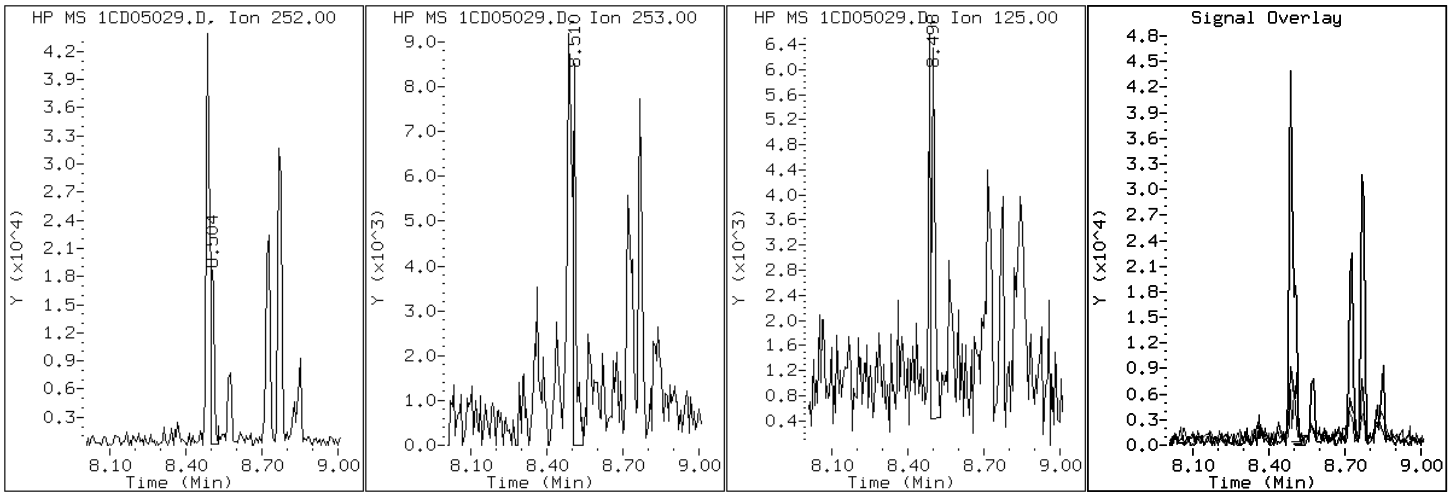
Data File: 1CD05029.D

Date: 05-APR-2013 20:00

Client ID: CV0509AH-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-48-a Operator: SCC

21 Benzo(k)fluoranthene



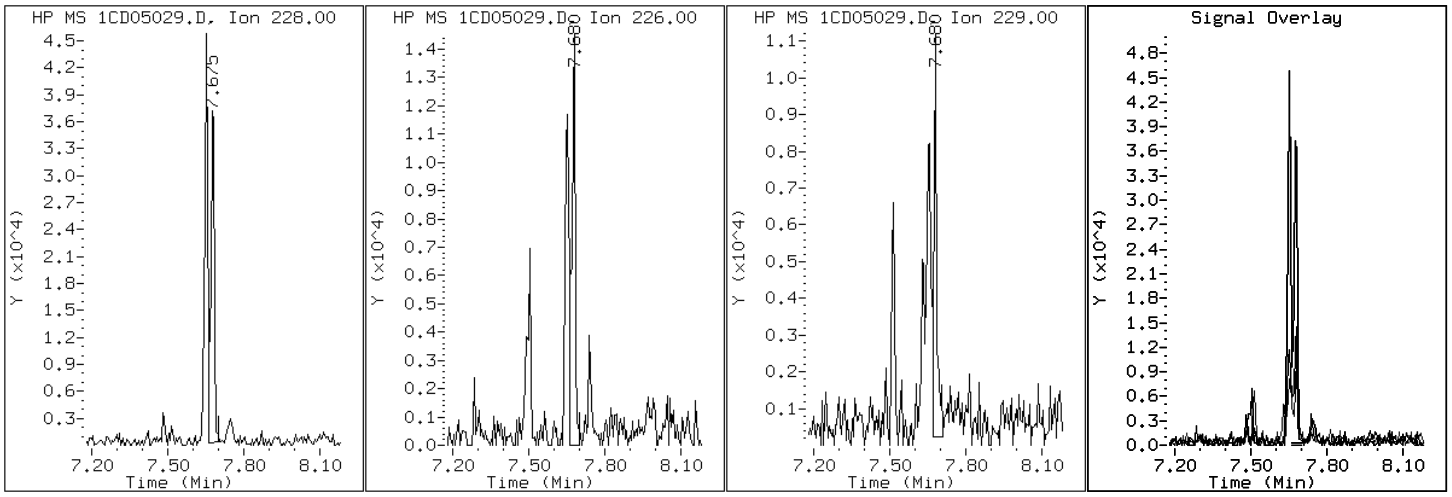
Data File: 1CD05029.D

Date: 05-APR-2013 20:00

Client ID: CV0509AH-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-48-a Operator: SCC

19 Chrysene



Data File: 1CD05029.D

Date: 05-APR-2013 20:00

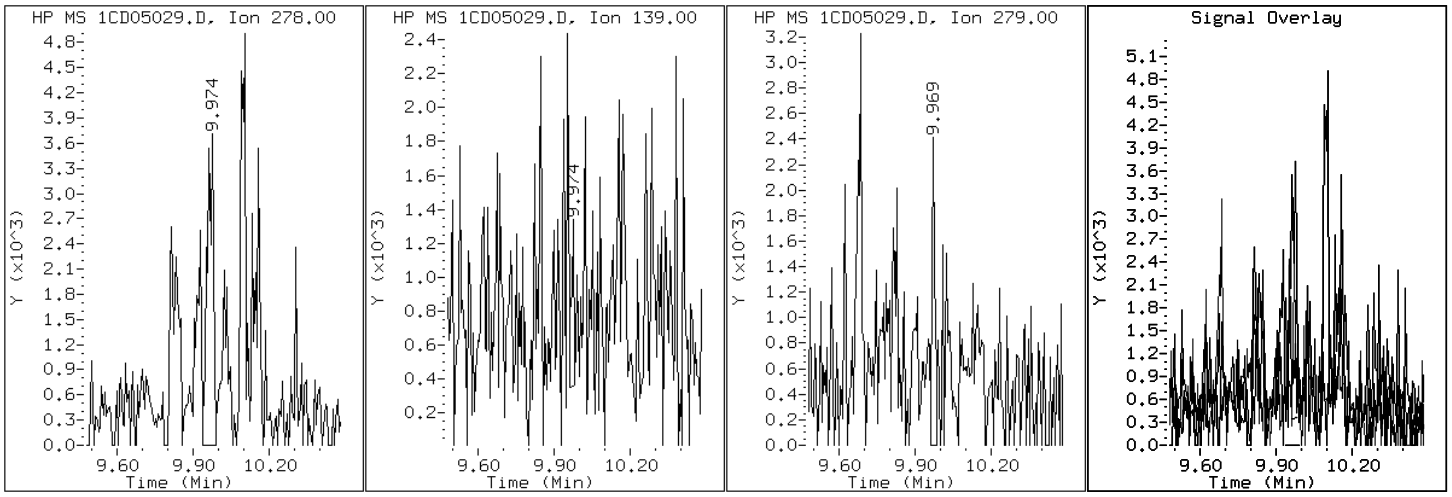
Client ID: CV0509AH-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-48-a

Operator: SCC

25 Dibenzo(a,h)anthracene



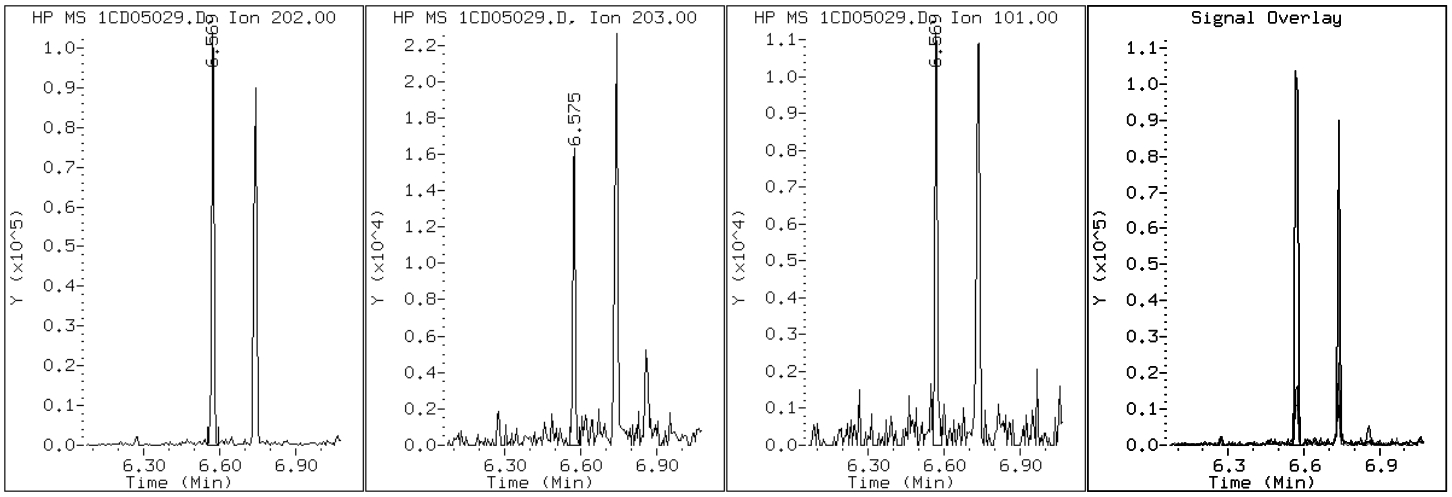
Data File: 1CD05029.D

Date: 05-APR-2013 20:00

Client ID: CV0509AH-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-48-a Operator: SCC

15 Fluoranthene



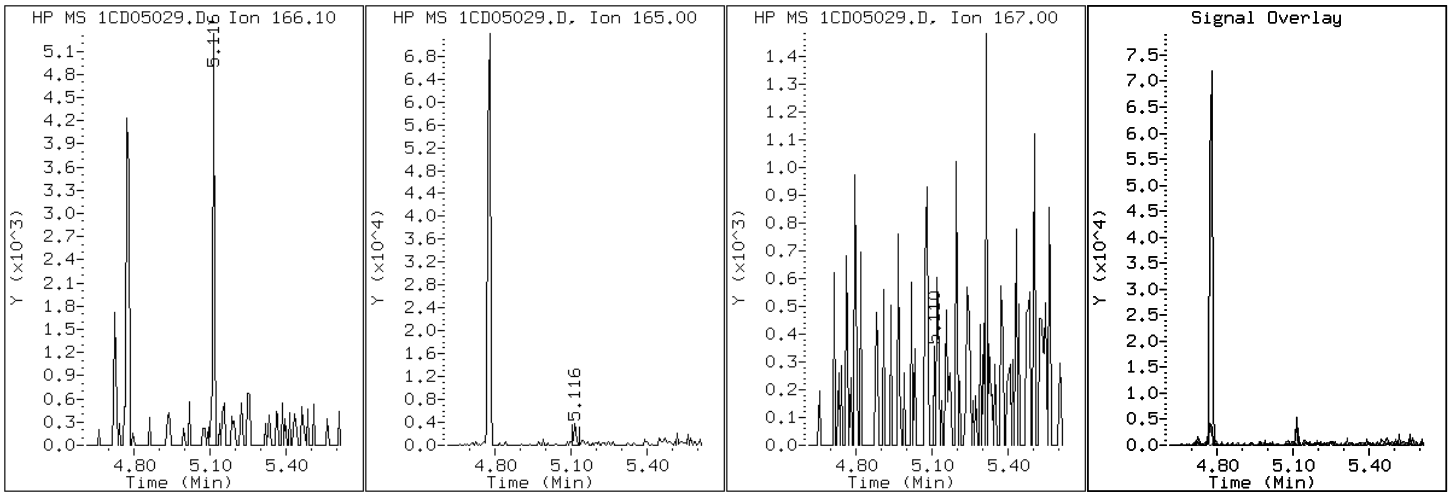
Data File: 1CD05029.D

Date: 05-APR-2013 20:00

Client ID: CV0509AH-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-48-a Operator: SCC

9 Fluorene



Data File: 1CD05029.D

Date: 05-APR-2013 20:00

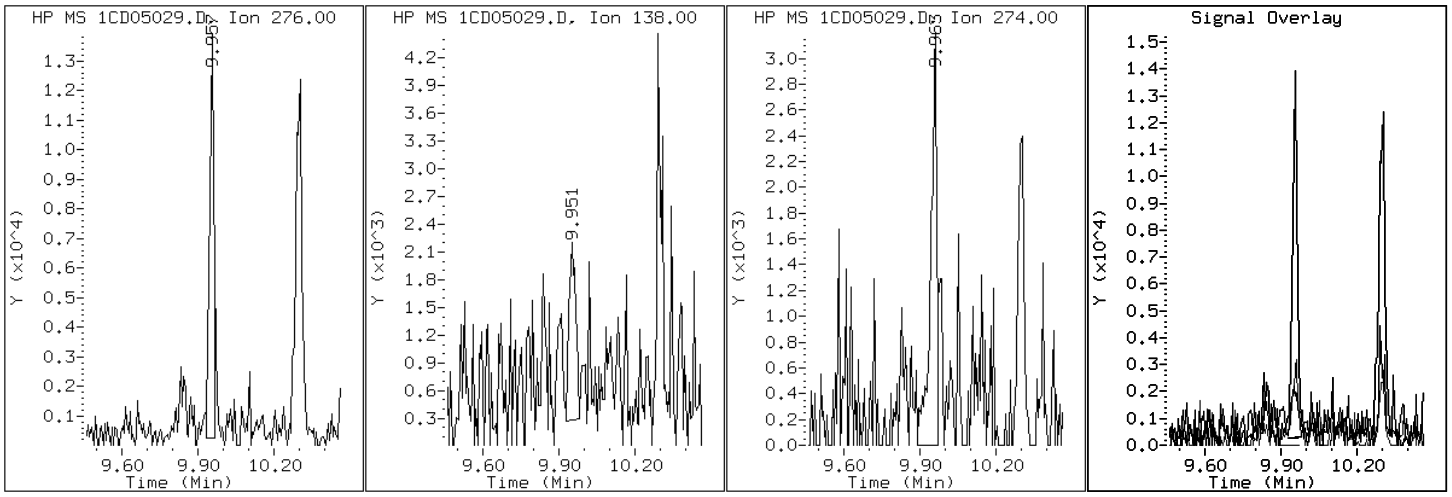
Client ID: CV0509AH-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-48-a

Operator: SCC

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



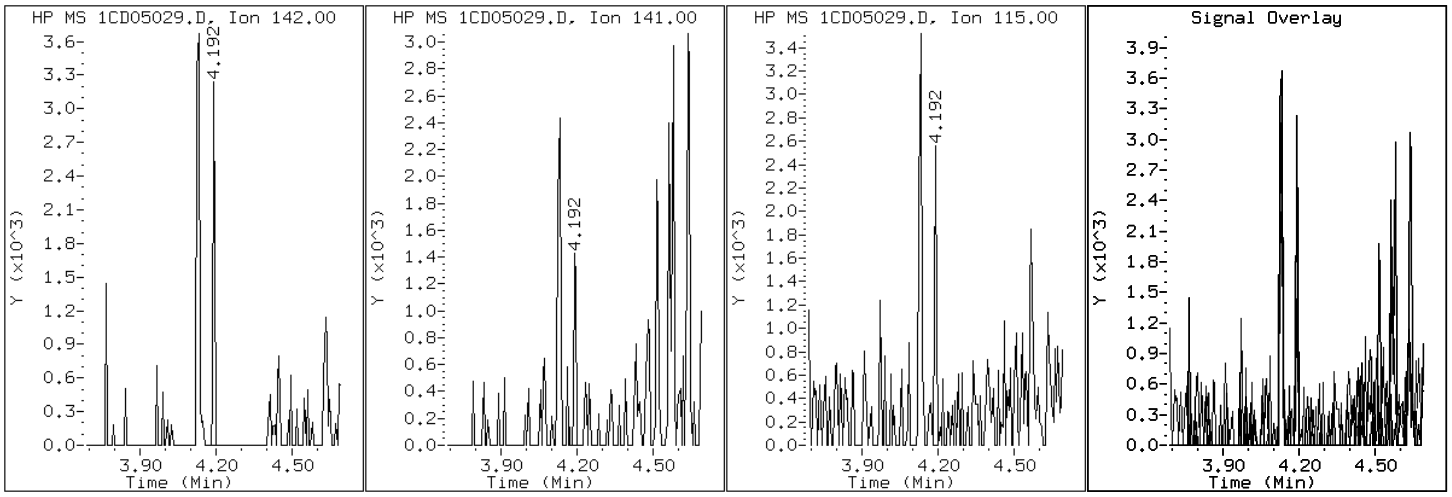
Data File: 1CD05029.D

Date: 05-APR-2013 20:00

Client ID: CV0509AH-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-48-a Operator: SCC

4 1-Methylnaphthalene



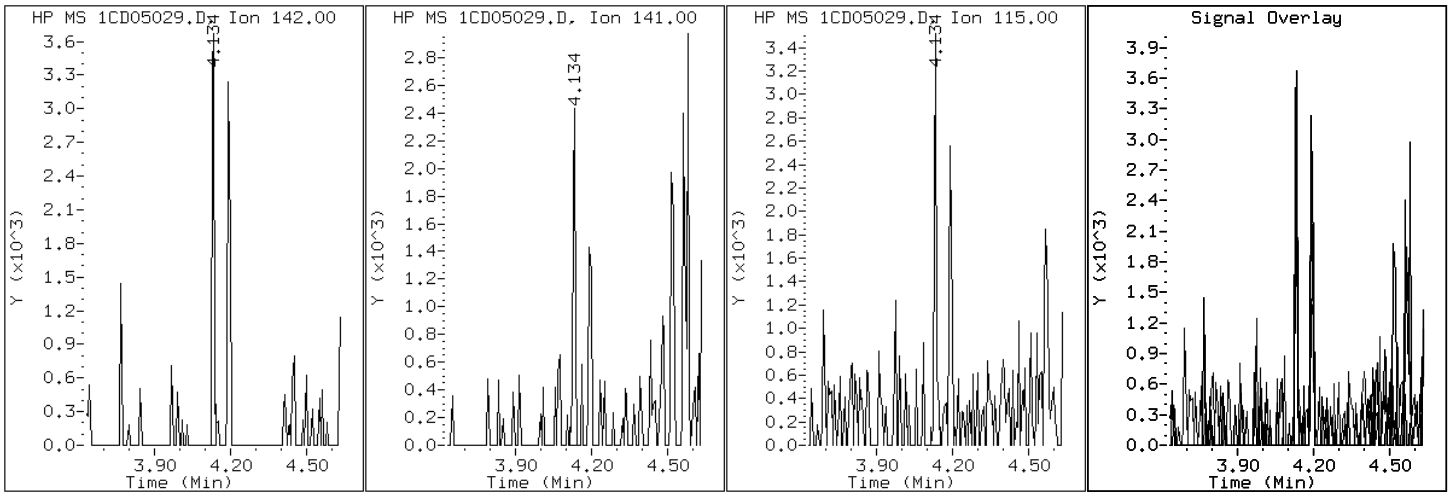
Data File: 1CD05029.D

Date: 05-APR-2013 20:00

Client ID: CV0509AH-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-48-a Operator: SCC

3 2-Methylnaphthalene



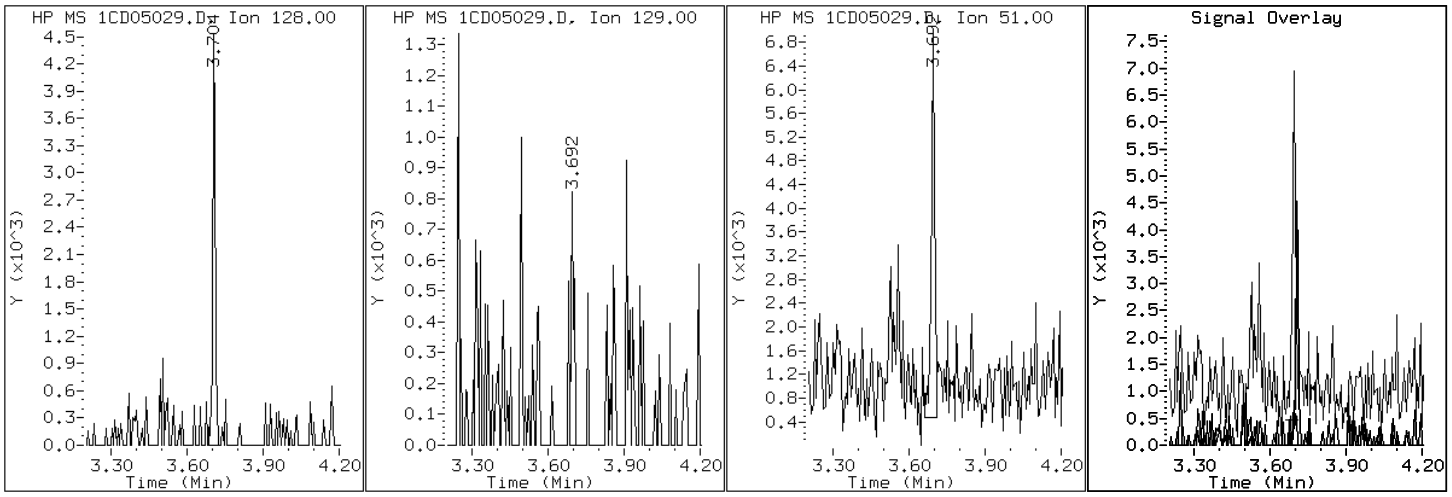
Data File: 1CD05029.D

Date: 05-APR-2013 20:00

Client ID: CV0509AH-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-48-a Operator: SCC

2 Naphthalene



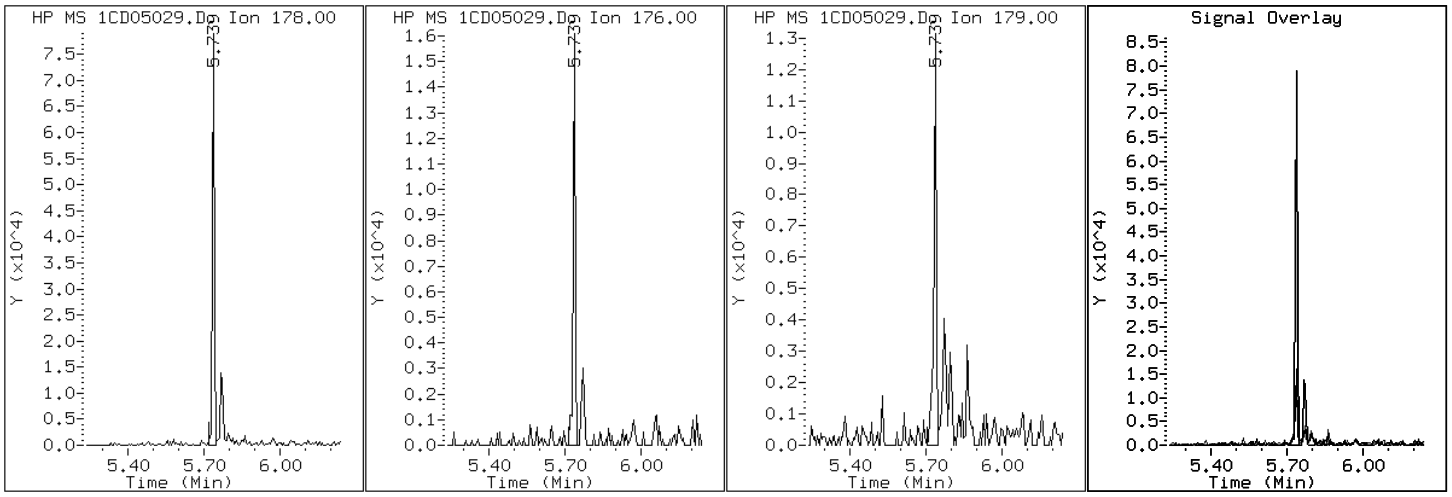
Data File: 1CD05029.D

Date: 05-APR-2013 20:00

Client ID: CV0509AH-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-48-a Operator: SCC

11 Phenanthrene



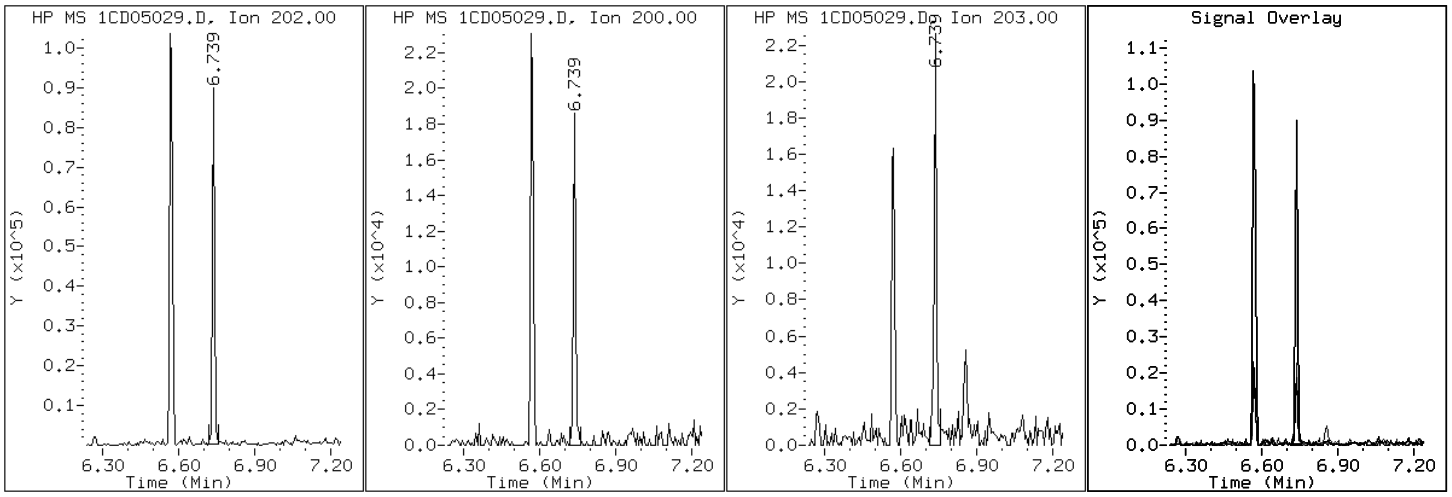
Data File: 1CD05029.D

Date: 05-APR-2013 20:00

Client ID: CV0509AH-GS | Instrument: BSMC5973.i

Sample Info: 680-88767-a-48-a | Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD05029.D
Inj. Date and Time: 05-APR-2013 20:00
Instrument ID: BSMC5973.i
Client ID: CV0509AH-GS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/09/2013

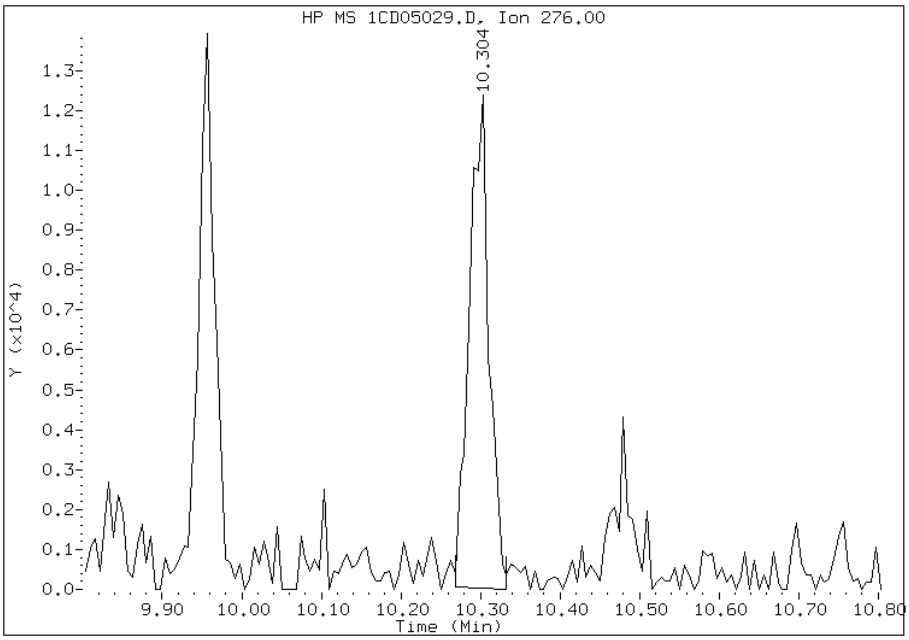
Processing Integration Results

RT: 10.30

Response: 21310

Amount: 1

Conc: 375



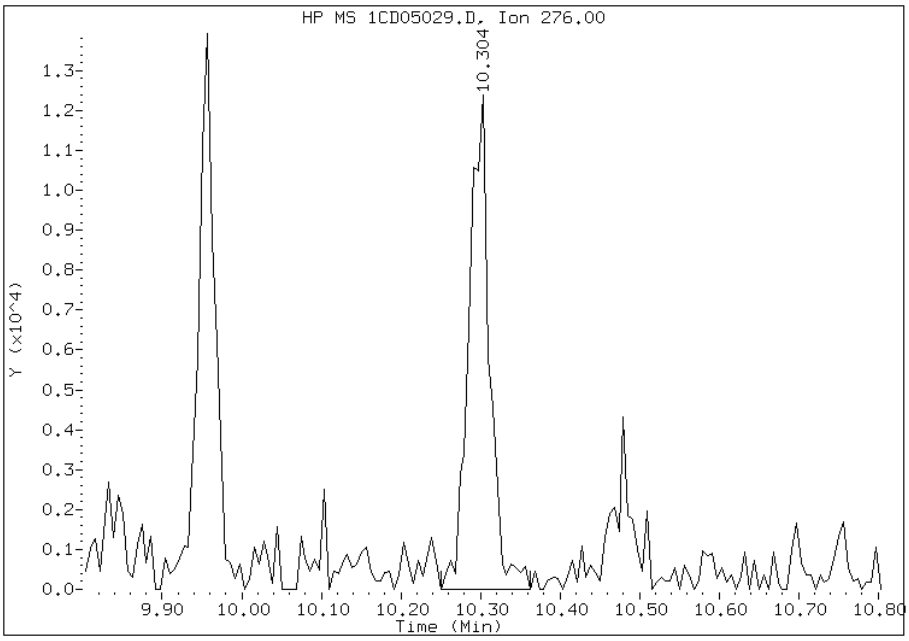
Manual Integration Results

RT: 10.30

Response: 22579

Amount: 1

Conc: 398



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:40
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD05029.D
Inj. Date and Time: 05-APR-2013 20:00
Instrument ID: BSMC5973.i
Client ID: CV0509AH-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

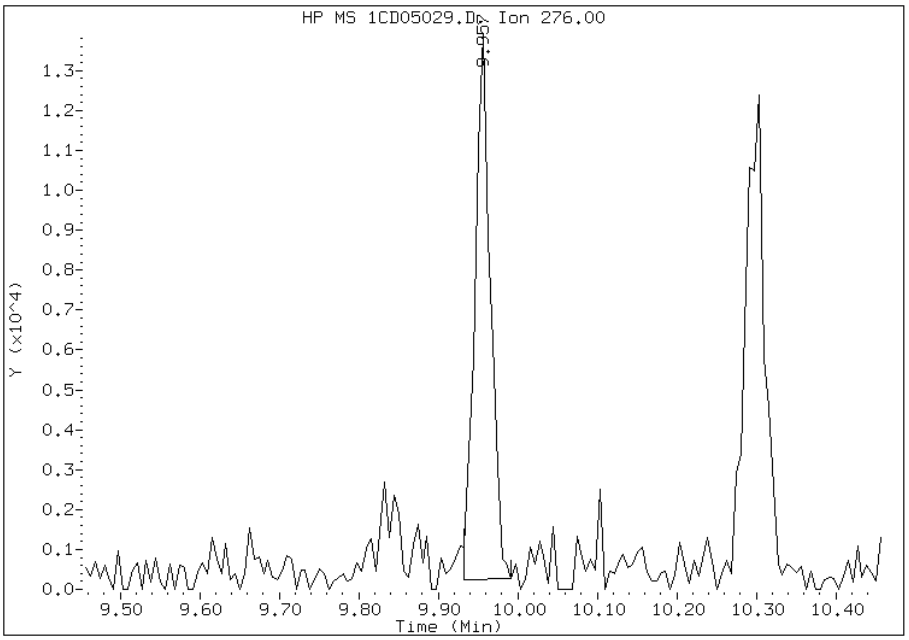
Processing Integration Results

RT: 9.96

Response: 18385

Amount: 1

Conc: 330



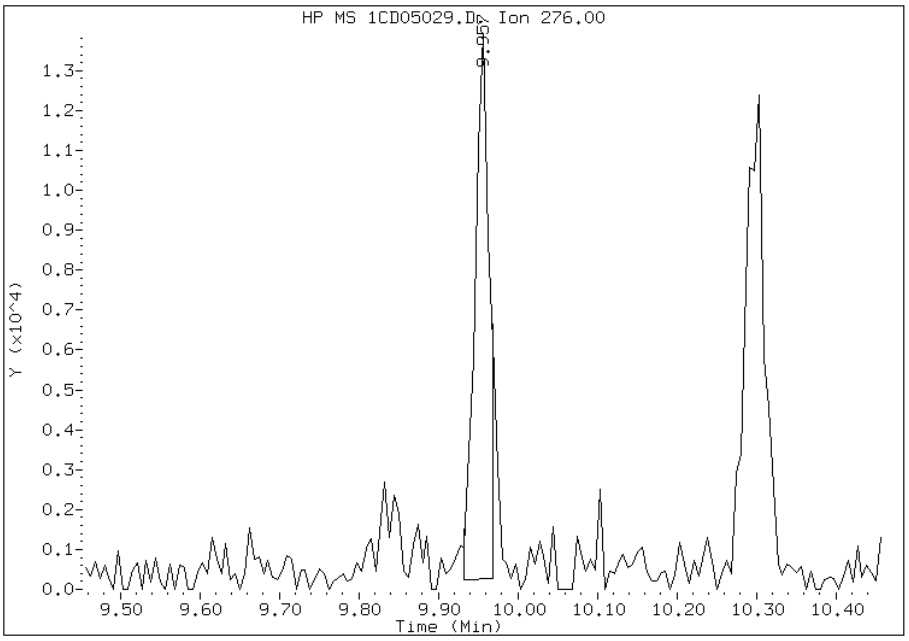
Manual Integration Results

RT: 9.96

Response: 17095

Amount: 1

Conc: 307



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:40
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88767-3

SDG No.: 68088767-3

Client Sample ID: CV0509AI-GS | Lab Sample ID: 680-88767-49

Matrix: Solid | Lab File ID: 1CD05030.D

Analysis Method: 8270C LL | Date Collected: 03/26/2013 13:25

Extract. Method: 3546 | Date Extracted: 04/03/2013 15:12

Sample wt/vol: 15.25(g) | Date Analyzed: 04/05/2013 20:18

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

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

% Moisture: 25.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136171 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	39	J	210	26
120-12-7	Anthracene	50		44	22
56-55-3	Benzo[a]anthracene	330		42	21
50-32-8	Benzo[a]pyrene	320		55	27
205-99-2	Benzo[b]fluoranthene	580		64	32
191-24-2	Benzo[g,h,i]perylene	330		110	23
207-08-9	Benzo[k]fluoranthene	150		42	19
218-01-9	Chrysene	360		48	24
53-70-3	Dibenz(a,h)anthracene	110		110	22
206-44-0	Fluoranthene	480		110	21
86-73-7	Fluorene	110	U	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	290		110	38
90-12-0	1-Methylnaphthalene	100	J	210	23
91-57-6	2-Methylnaphthalene	90	J	210	38
91-20-3	Naphthalene	92	J	210	23
85-01-8	Phenanthrene	270		42	21
129-00-0	Pyrene	380		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	91		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05030.D
Lab Smp Id: 680-88767-A-49-A Client Smp ID: CV0509AI-GS
Inj Date : 05-APR-2013 20:18
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88767-a-49-a
Misc Info : 680-88767-A-49-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m
Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 29
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.250	Weight Extracted
M	25.527	% 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	3.692	3.692	(1.000)	568471	40.0000	
* 6 Acenaphthene-d10	164	4.780	4.780	(1.000)	419756	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	784902	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	19717	2.26439	797.5207
* 18 Chrysene-d12	240	7.662	7.662	(1.000)	887584	40.0000	
* 23 Perylene-d12	264	8.827	8.827	(1.000)	835959	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	3821	0.26169	92.1687
3 2-Methylnaphthalene	142	4.133	4.133	(1.119)	2541	0.25566	90.0420(Q)
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	2612	0.29206	102.8644
5 Acenaphthylene	152	4.698	4.692	(0.983)	1943	0.11184	39.3909
11 Phenanthrene	178	5.739	5.739	(1.003)	17403	0.76129	268.1259
12 Anthracene	178	5.774	5.774	(1.009)	3320	0.14327	50.4592
13 Carbazole	167	5.880	5.880	(1.028)	3754	0.18908	66.5955
15 Fluoranthene	202	6.574	6.574	(1.149)	34603	1.37063	482.7388

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.739	6.739	(0.879)	26395	1.07355	378.1039
17 Benzo(a)anthracene	228	7.650	7.651	(0.998)	20278	0.92411	325.4737
19 Chrysene	228	7.680	7.680	(1.002)	25696	1.01596	357.8233
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	39122	1.65538	583.0262
21 Benzo(k)fluoranthene	252	8.503	8.509	(0.963)	9537	0.41723	146.9506(QM)
22 Benzo(a)pyrene	252	8.768	8.774	(0.993)	20319	0.91321	321.6324
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.962	(1.128)	17182	0.81302	286.3480(M)
25 Dibenzo(a,h)anthracene	278	9.980	9.980	(1.131)	6195	0.31733	111.7637(M)
26 Benzo(g,h,i)perylene	276	10.286	10.303	(1.165)	20053	0.92971	327.4433(M)

QC Flag Legend

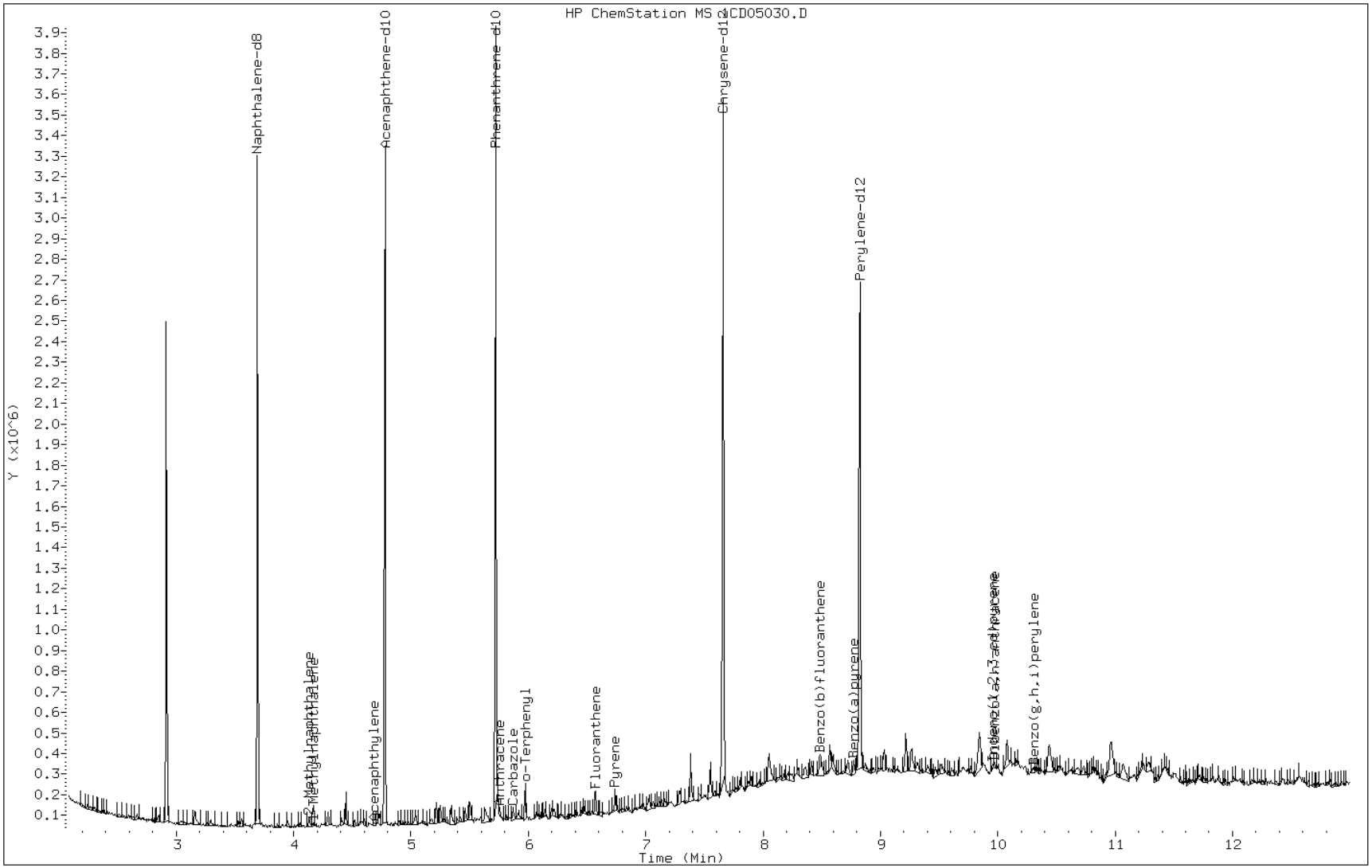
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD05030.D

Date: 05-APR-2013 20:18

Client ID: CV0509AI-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-49-a Operator: SCC



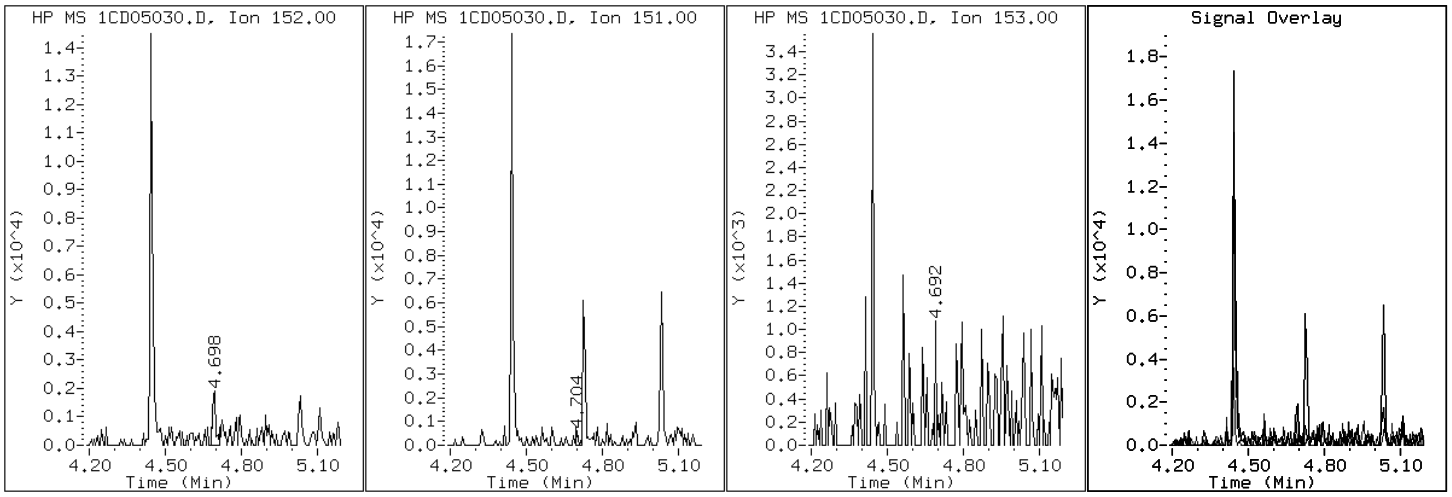
Data File: 1CD05030.D

Date: 05-APR-2013 20:18

Client ID: CV0509AI-GS | Instrument: BSMC5973.i

Sample Info: 680-88767-a-49-a | Operator: SCC

5 Acenaphthylene



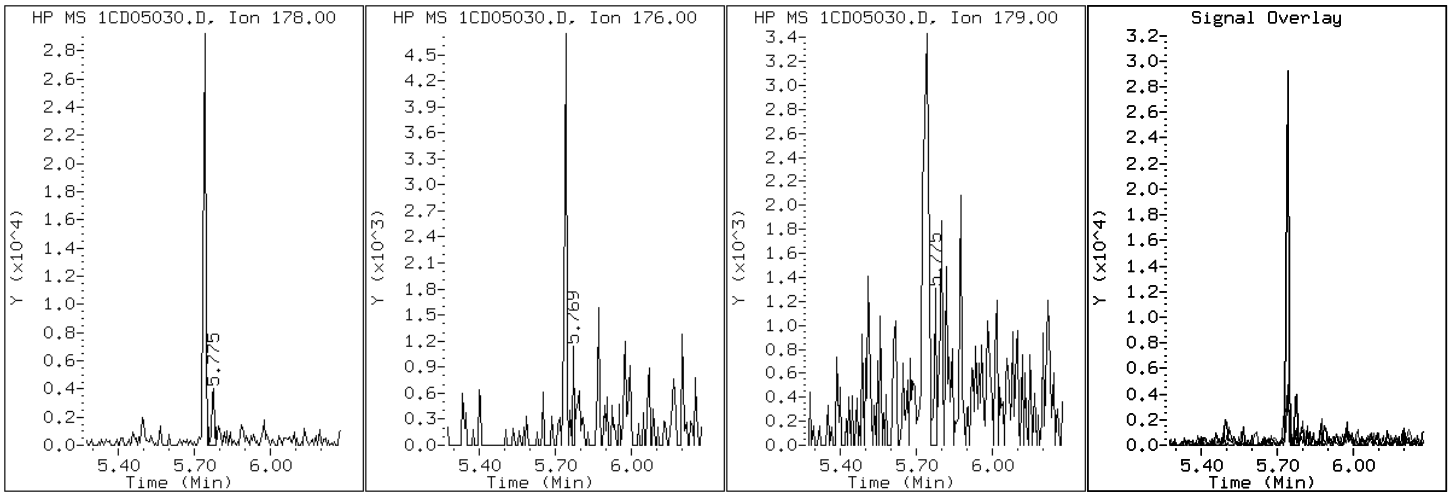
Data File: 1CD05030.D

Date: 05-APR-2013 20:18

Client ID: CV0509AI-GS | Instrument: BSMC5973.i

Sample Info: 680-88767-a-49-a | Operator: SCC

12 Anthracene



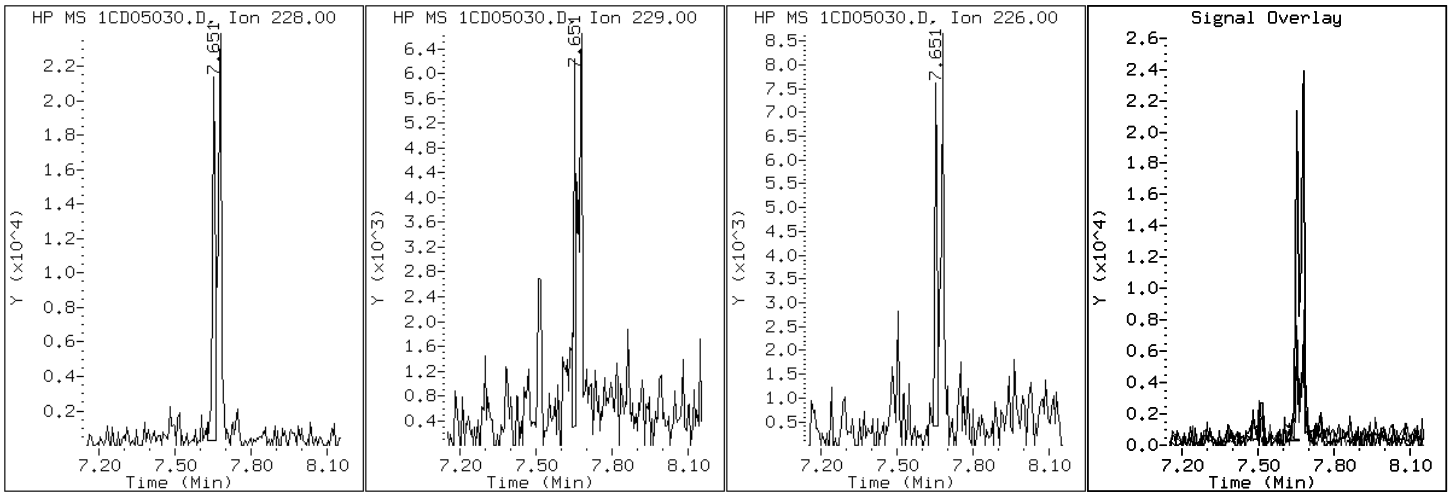
Data File: 1CD05030.D

Date: 05-APR-2013 20:18

Client ID: CV0509AI-GS | Instrument: BSMC5973.i

Sample Info: 680-88767-a-49-a | Operator: SCC

17 Benzo(a)anthracene



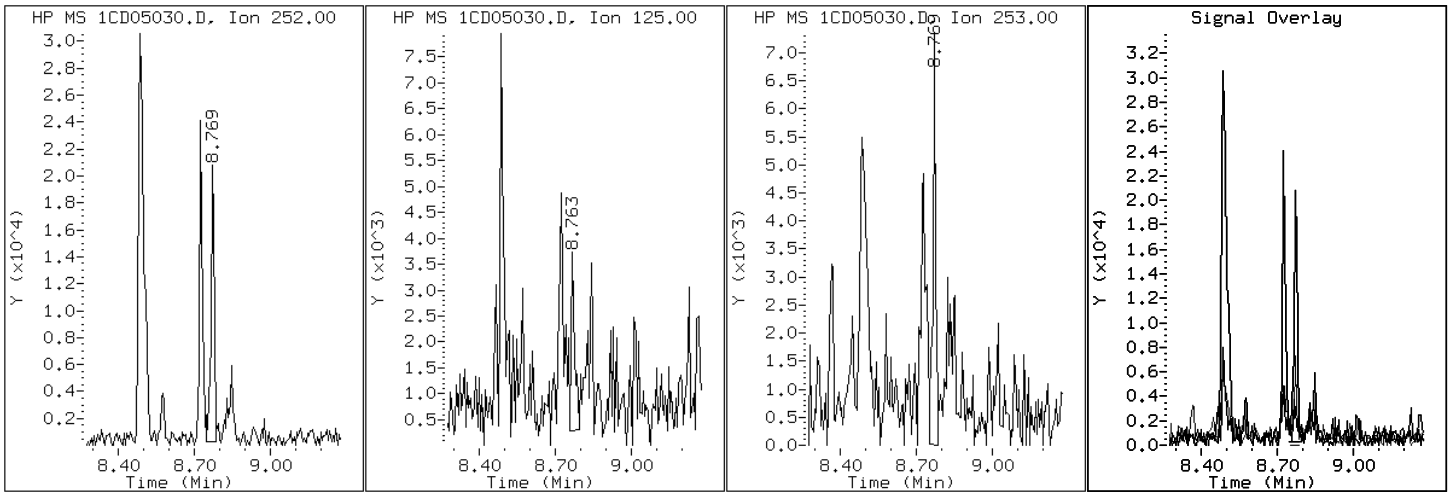
Data File: 1CD05030.D

Date: 05-APR-2013 20:18

Client ID: CV0509AI-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-49-a Operator: SCC

22 Benzo(a)pyrene



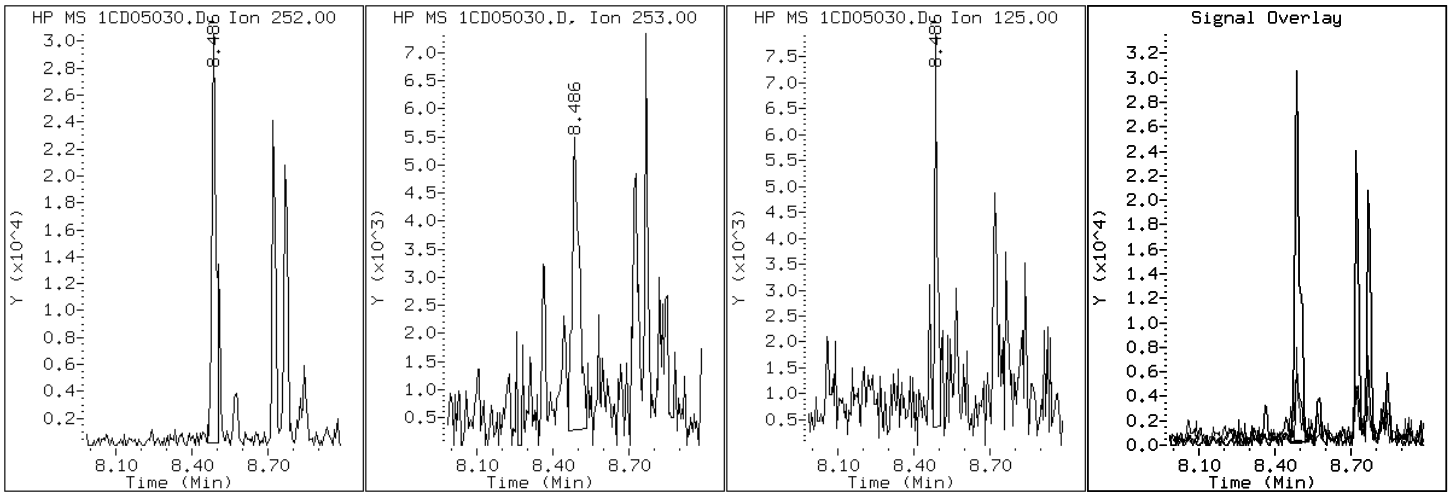
Data File: 1CD05030.D

Date: 05-APR-2013 20:18

Client ID: CV0509AI-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-49-a Operator: SCC

20 Benzo(b)fluoranthene



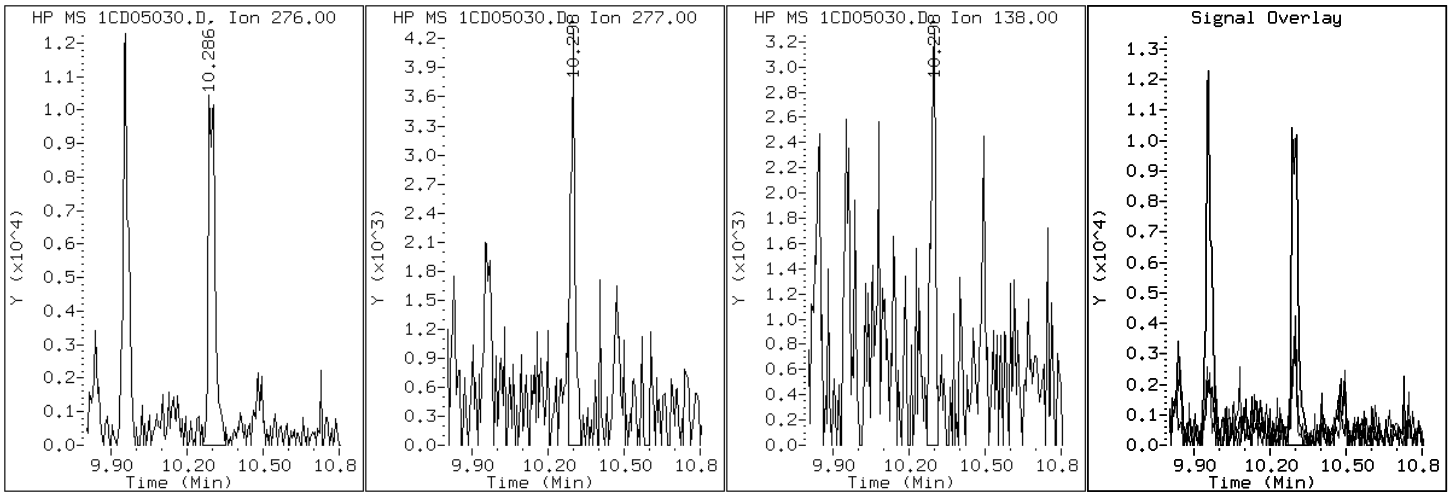
Data File: 1CD05030.D

Date: 05-APR-2013 20:18

Client ID: CV0509AI-GS | Instrument: BSMC5973.i

Sample Info: 680-88767-a-49-a | Operator: SCC

26 Benzo(g,h,i)perylene



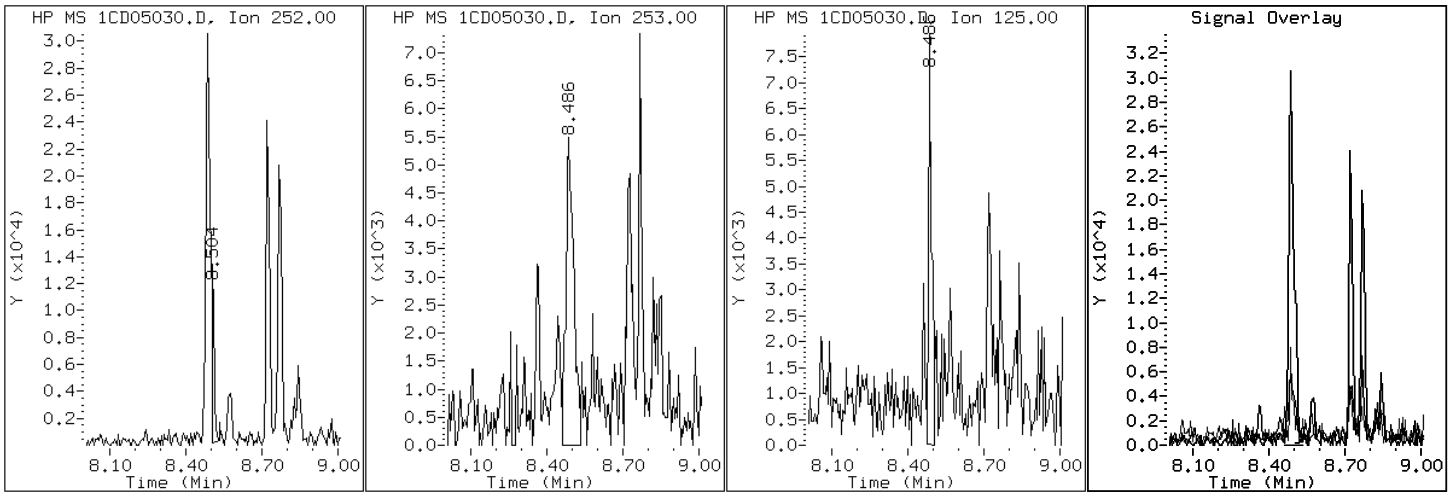
Data File: 1CD05030.D

Date: 05-APR-2013 20:18

Client ID: CV0509AI-GS | Instrument: BSMC5973.i

Sample Info: 680-88767-a-49-a | Operator: SCC

21 Benzo(k)fluoranthene



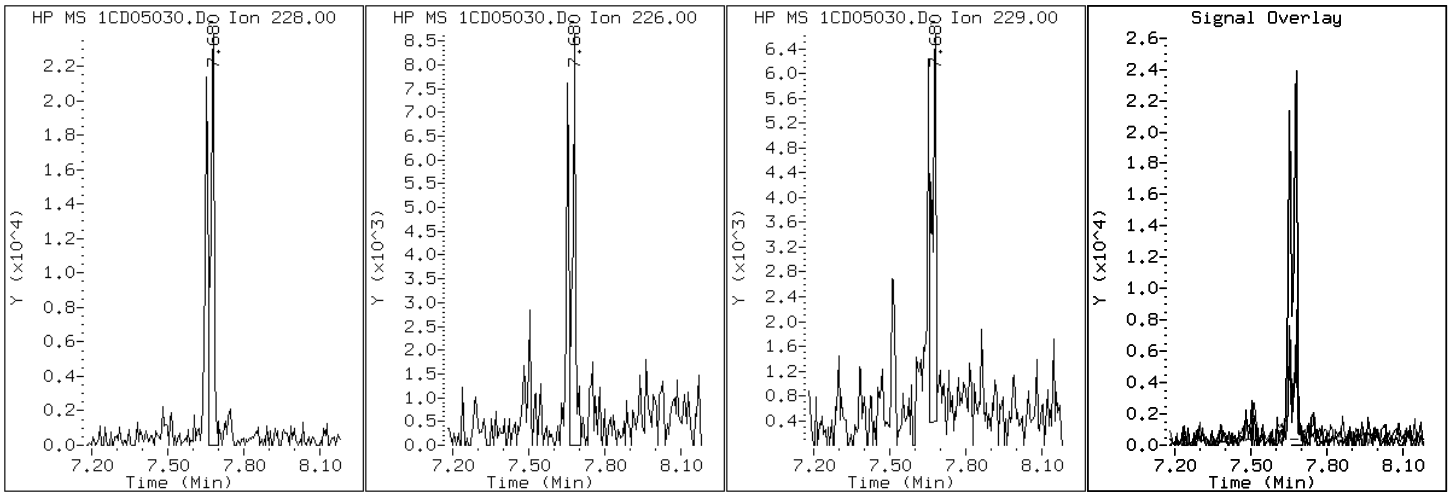
Data File: 1CD05030.D

Date: 05-APR-2013 20:18

Client ID: CV0509AI-GS | Instrument: BSMC5973.i

Sample Info: 680-88767-a-49-a | Operator: SCC

19 Chrysene



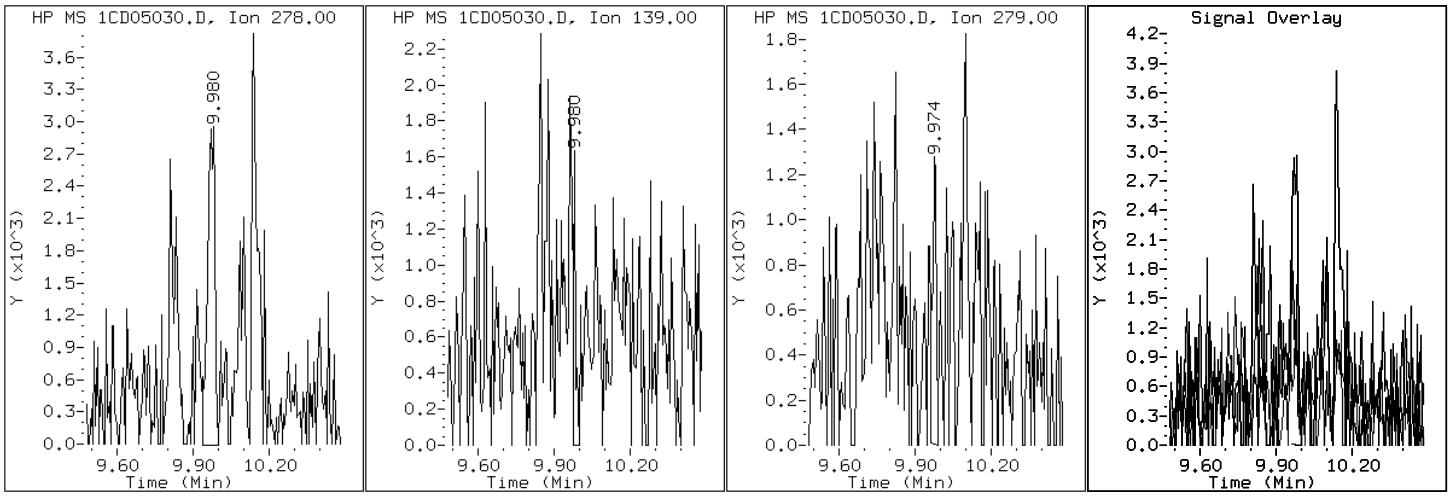
Data File: 1CD05030.D

Date: 05-APR-2013 20:18

Client ID: CV0509AI-GS | Instrument: BSMC5973.i

Sample Info: 680-88767-a-49-a | Operator: SCC

25 Dibenzo(a,h)anthracene



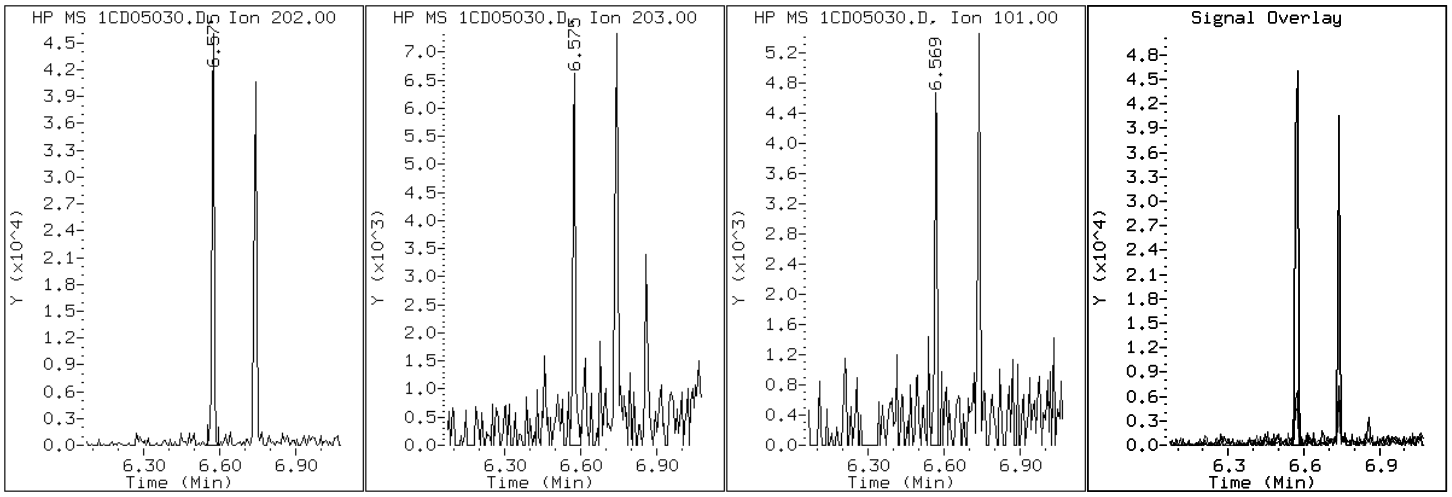
Data File: 1CD05030.D

Date: 05-APR-2013 20:18

Client ID: CV0509AI-GS | Instrument: BSMC5973.i

Sample Info: 680-88767-a-49-a | Operator: SCC

15 Fluoranthene



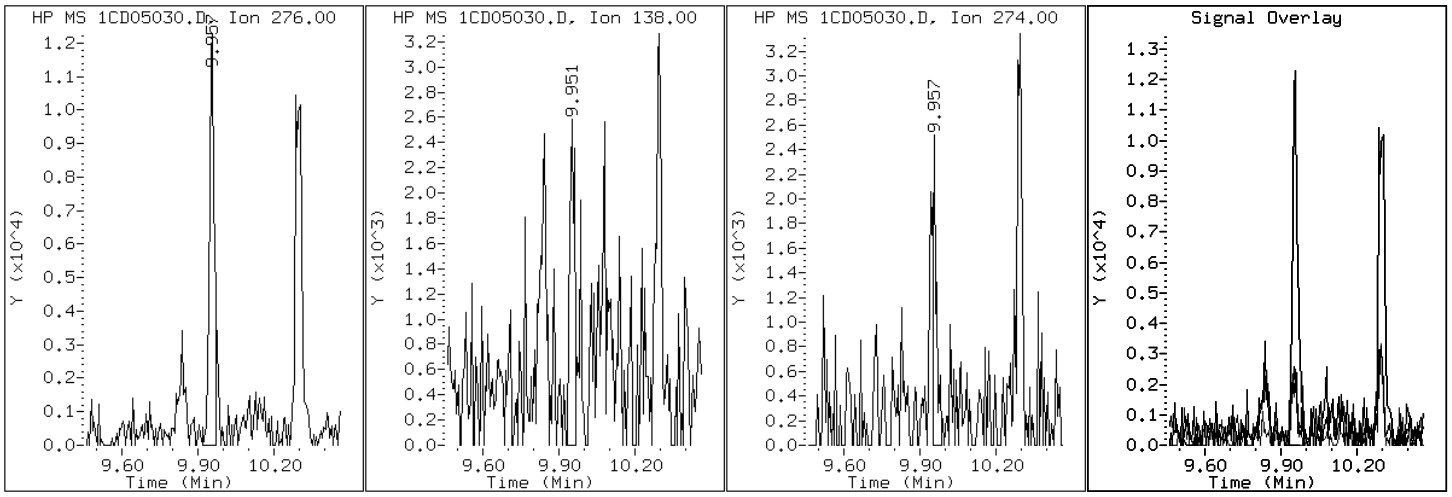
Data File: 1CD05030.D

Date: 05-APR-2013 20:18

Client ID: CV0509AI-GS | Instrument: BSMC5973.i

Sample Info: 680-88767-a-49-a | Operator: SCC

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



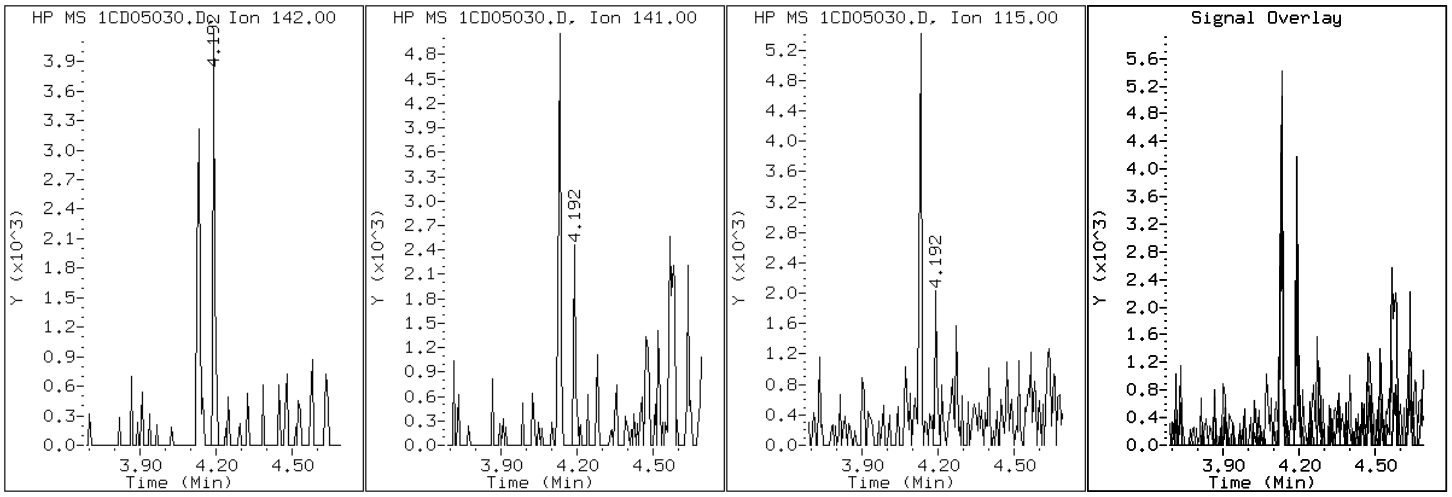
Data File: 1CD05030.D

Date: 05-APR-2013 20:18

Client ID: CV0509AI-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-49-a Operator: SCC

4 1-Methylnaphthalene



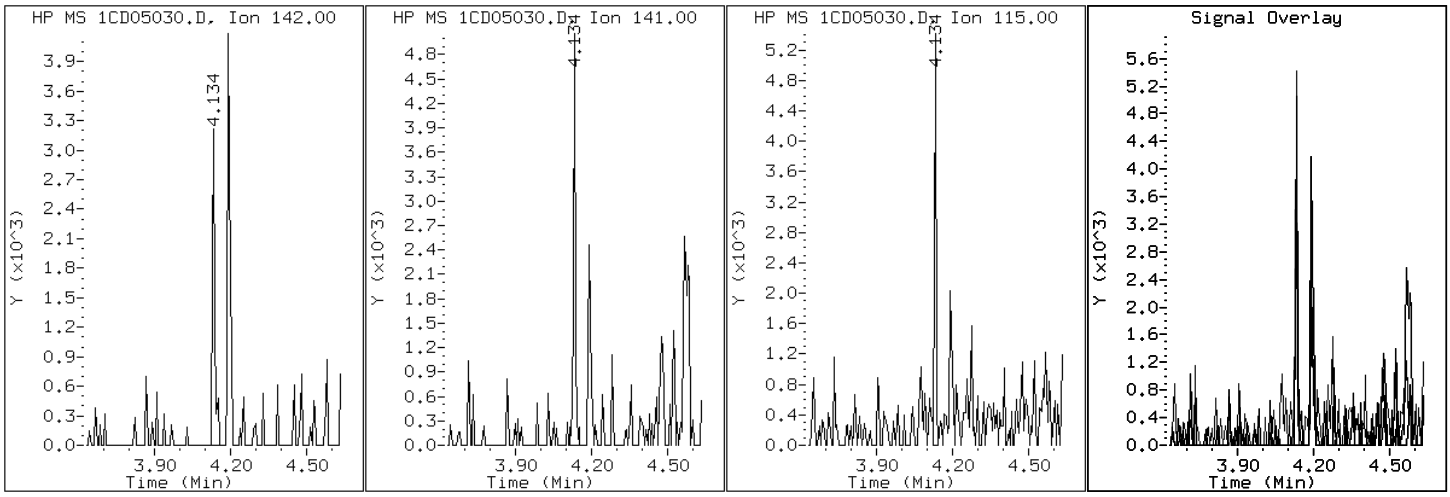
Data File: 1CD05030.D

Date: 05-APR-2013 20:18

Client ID: CV0509AI-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-49-a Operator: SCC

3 2-Methylnaphthalene



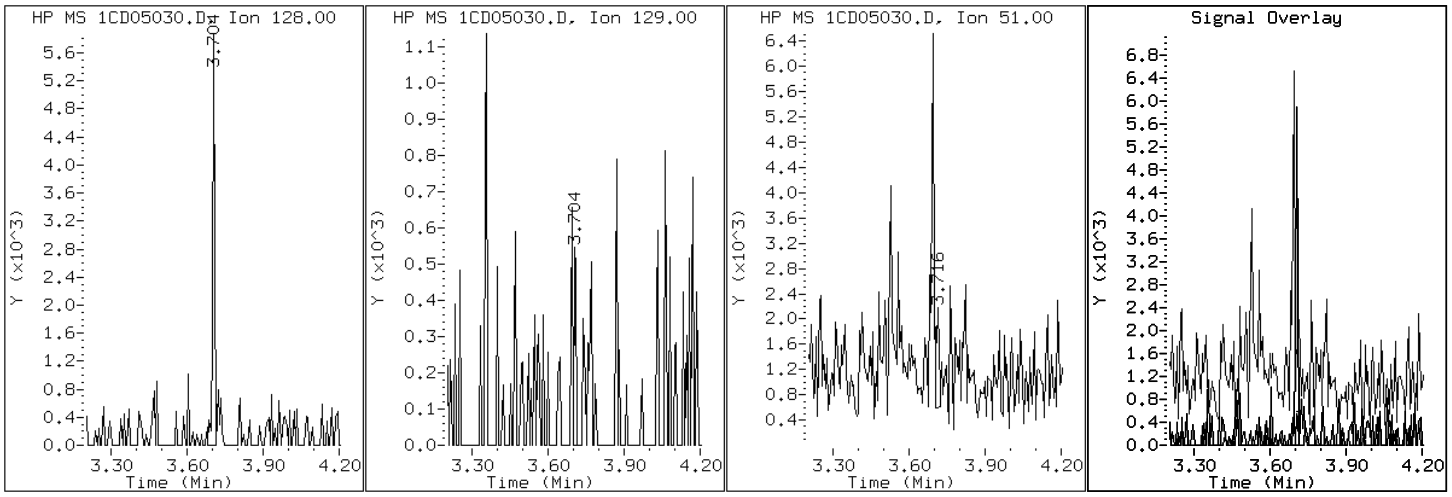
Data File: 1CD05030.D

Date: 05-APR-2013 20:18

Client ID: CV0509AI-GS | Instrument: BSMC5973.i

Sample Info: 680-88767-a-49-a | Operator: SCC

2 Naphthalene



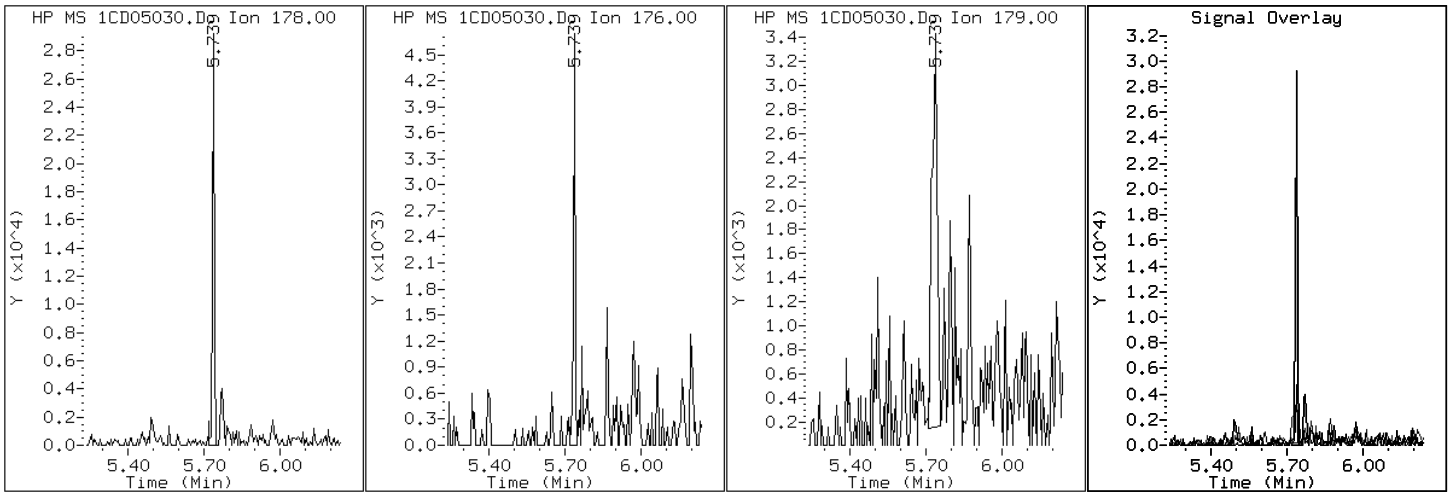
Data File: 1CD05030.D

Date: 05-APR-2013 20:18

Client ID: CV0509AI-GS | Instrument: BSMC5973.i

Sample Info: 680-88767-a-49-a | Operator: SCC

11 Phenanthrene



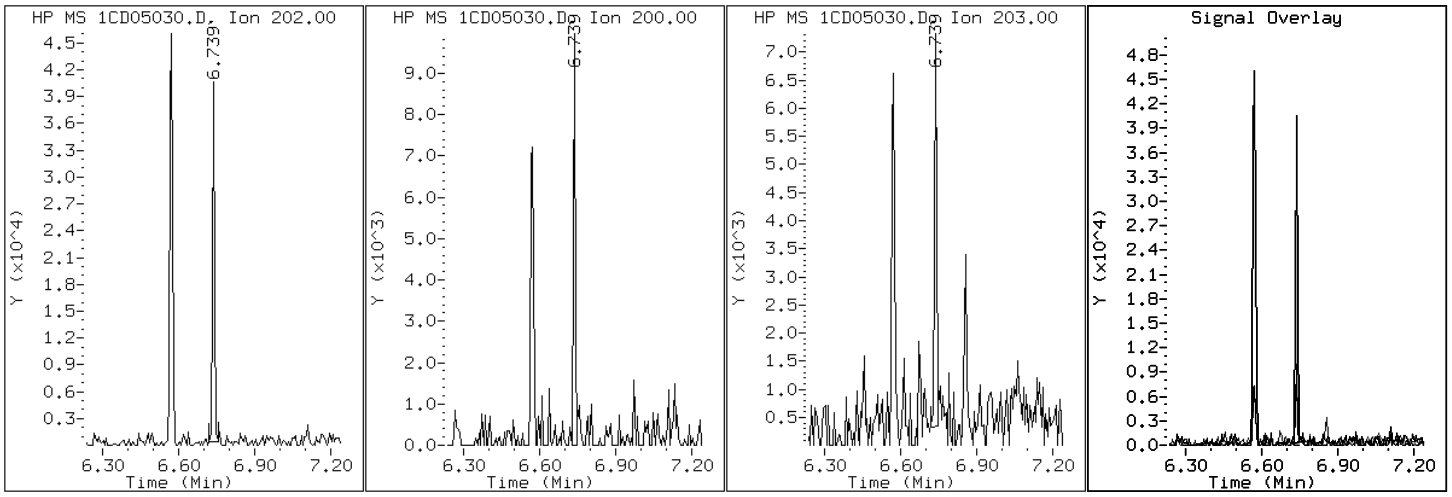
Data File: 1CD05030.D

Date: 05-APR-2013 20:18

Client ID: CV0509AI-GS | Instrument: BSMC5973.i

Sample Info: 680-88767-a-49-a | Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD05030.D
Inj. Date and Time: 05-APR-2013 20:18
Instrument ID: BSMC5973.i
Client ID: CV0509AI-GS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/09/2013

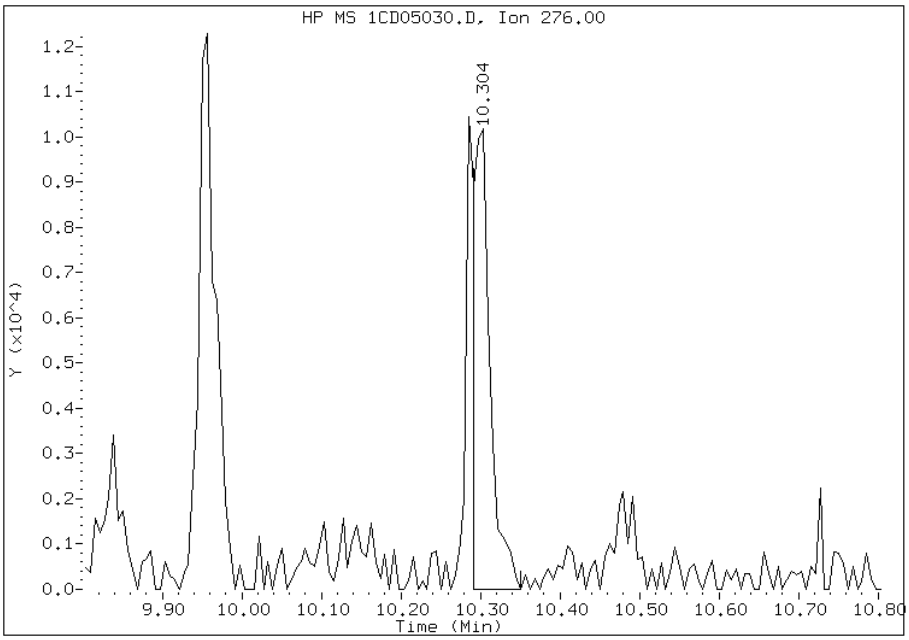
Processing Integration Results

RT: 10.30

Response: 15111

Amount: 1

Conc: 247



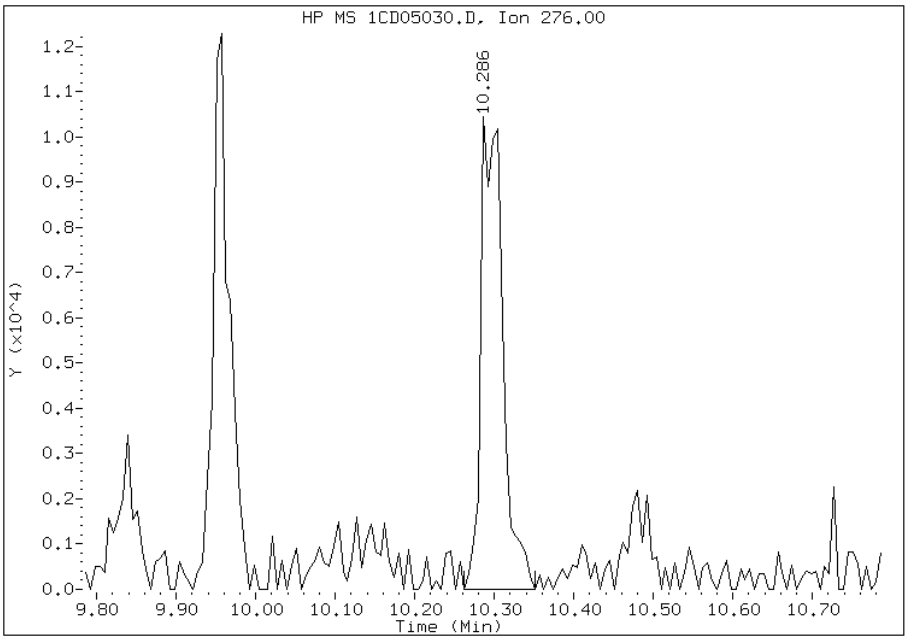
Manual Integration Results

RT: 10.29

Response: 20053

Amount: 1

Conc: 327



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:42
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD05030.D
Inj. Date and Time: 05-APR-2013 20:18
Instrument ID: BSMC5973.i
Client ID: CV0509AI-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/09/2013

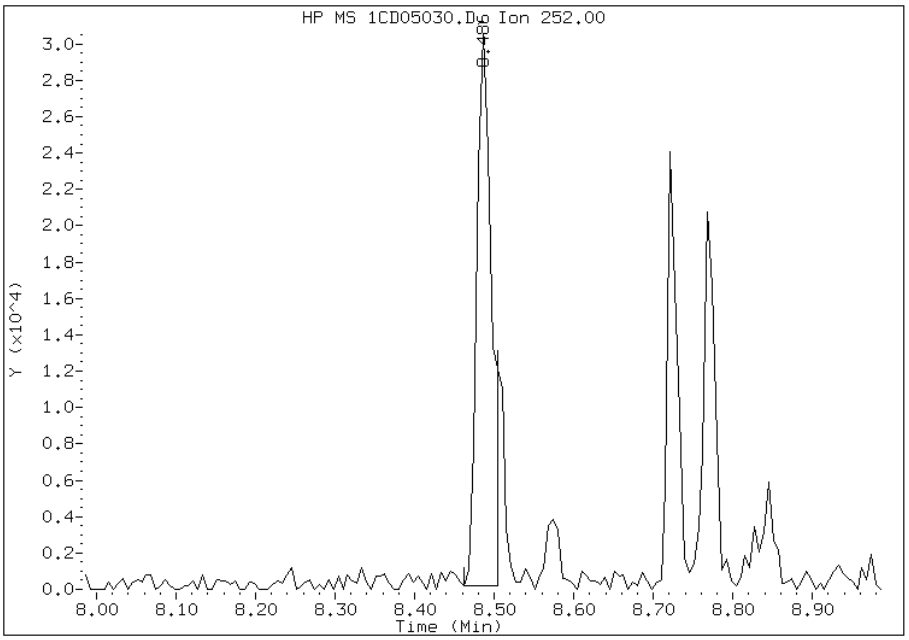
Processing Integration Results

RT: 8.49

Response: 39122

Amount: 2

Conc: 603



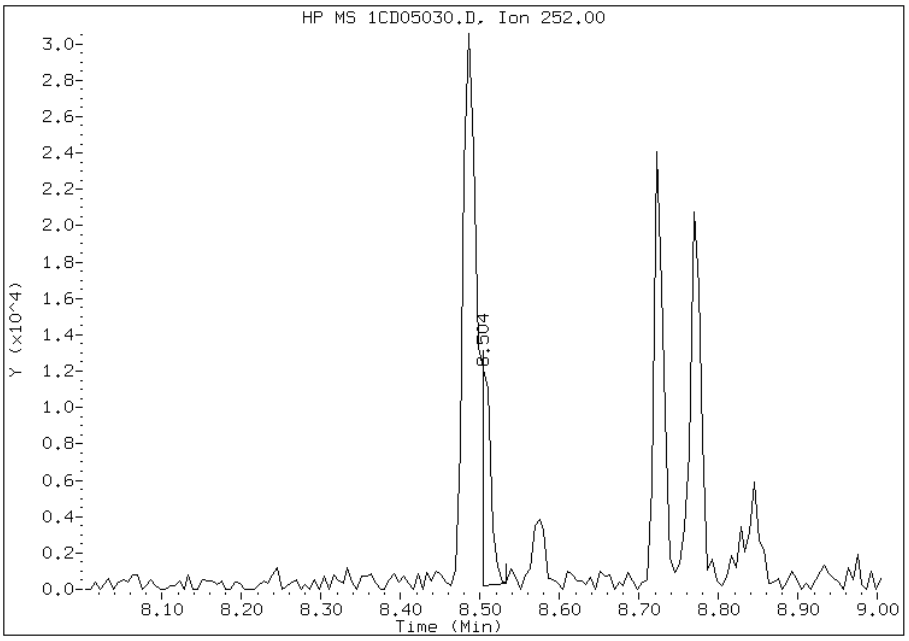
Manual Integration Results

RT: 8.50

Response: 9537

Amount: 0

Conc: 147



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:41
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1CD05030.D
Inj. Date and Time: 05-APR-2013 20:18
Instrument ID: BSMC5973.i
Client ID: CV0509AI-GS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/09/2013

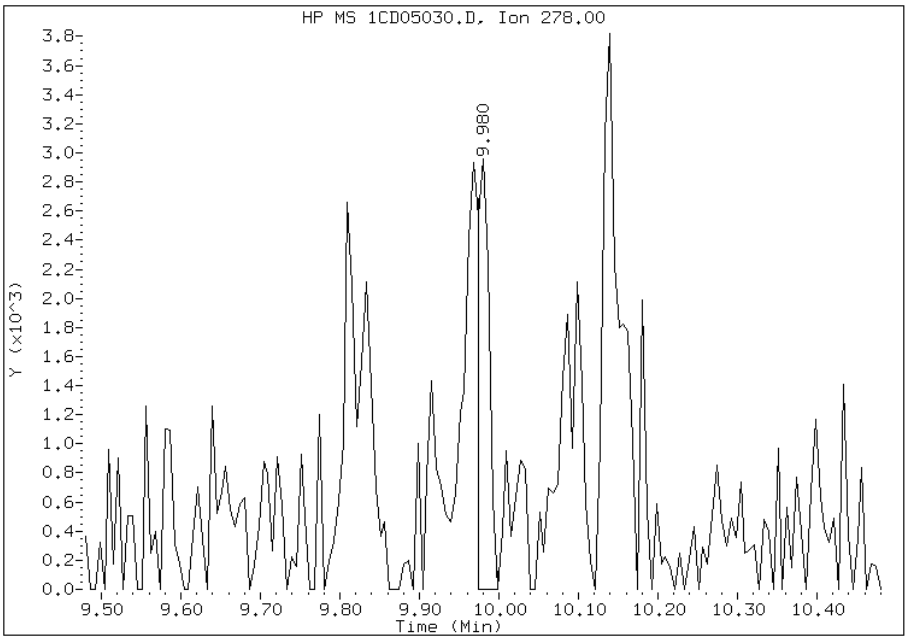
Processing Integration Results

RT: 9.98

Response: 2959

Amount: 0

Conc: 53



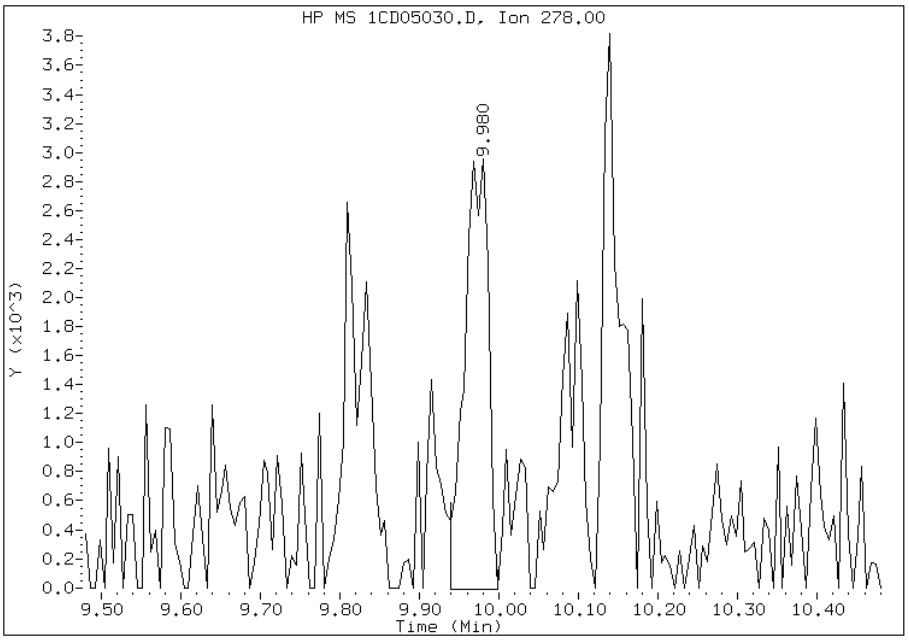
Manual Integration Results

RT: 9.98

Response: 6195

Amount: 0

Conc: 112



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:41
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD05030.D
Inj. Date and Time: 05-APR-2013 20:18
Instrument ID: BSMC5973.i
Client ID: CV0509AI-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

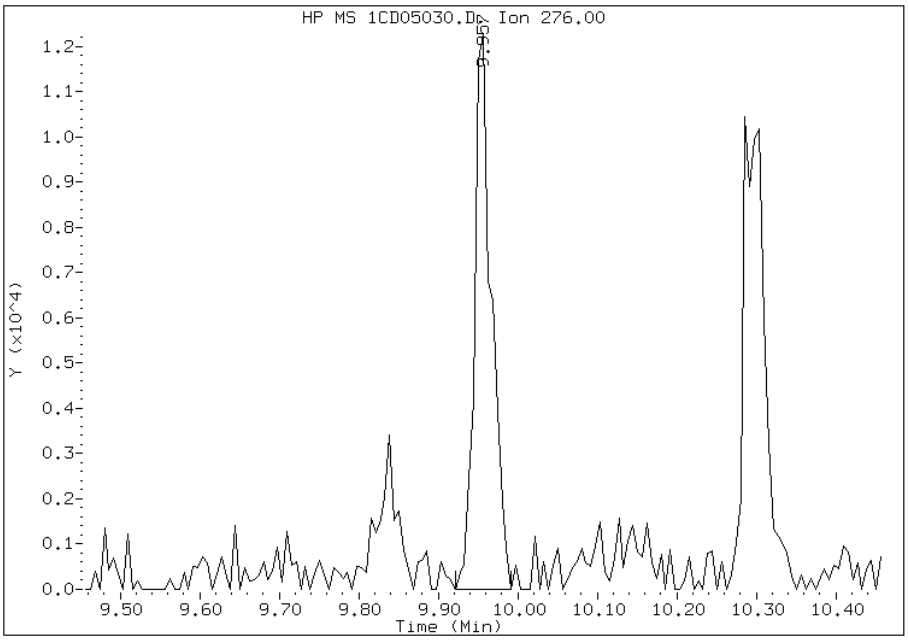
Processing Integration Results

RT: 9.96

Response: 18194

Amount: 1

Conc: 303



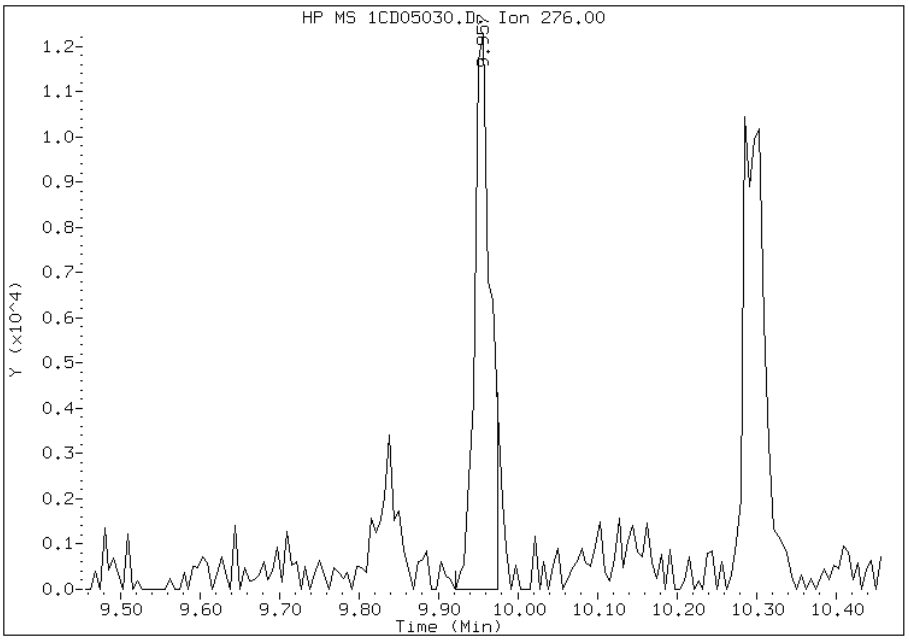
Manual Integration Results

RT: 9.96

Response: 17182

Amount: 1

Conc: 286



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:42
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88767-3

SDG No.: 68088767-3

Client Sample ID: CV0509AJ-GS | Lab Sample ID: 680-88767-50

Matrix: Solid | Lab File ID: 1CD05031.D

Analysis Method: 8270C LL | Date Collected: 03/26/2013 13:30

Extract. Method: 3546 | Date Extracted: 04/03/2013 15:12

Sample wt/vol: 14.92(g) | Date Analyzed: 04/05/2013 20:37

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

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

% Moisture: 26.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136171 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	27
208-96-8	Acenaphthylene	24	J	54	6.8
120-12-7	Anthracene	39		11	5.7
56-55-3	Benzo[a]anthracene	220		11	5.3
50-32-8	Benzo[a]pyrene	220		14	7.1
205-99-2	Benzo[b]fluoranthene	360		17	8.3
191-24-2	Benzo[g,h,i]perylene	190		27	6.0
207-08-9	Benzo[k]fluoranthene	110		11	4.9
218-01-9	Chrysene	260		12	6.1
53-70-3	Dibenz(a,h)anthracene	73		27	5.6
206-44-0	Fluoranthene	380		27	5.4
86-73-7	Fluorene	19	J	27	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	140		27	9.6
90-12-0	1-Methylnaphthalene	44	J	54	6.0
91-57-6	2-Methylnaphthalene	61		54	9.6
91-20-3	Naphthalene	54		54	6.0
85-01-8	Phenanthrene	230		11	5.3
129-00-0	Pyrene	370		27	5.0

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05031.D
Lab Smp Id: 680-88767-A-50-A Client Smp ID: CV0509AJ-GS
Inj Date : 05-APR-2013 20:37
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88767-a-50-a
Misc Info : 680-88767-A-50-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m
Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.920	Weight Extracted
M	25.974	% 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	3.692	3.692	(1.000)	555735	40.0000	
* 6 Acenaphthene-d10	164	4.780	4.780	(1.000)	439870	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	845162	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	71729	5.92499	536.4566
* 18 Chrysene-d12	240	7.662	7.662	(1.000)	889836	40.0000	
* 23 Perylene-d12	264	8.827	8.827	(1.000)	833692	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	8474	0.59367	53.7516(Q)
3 2-Methylnaphthalene	142	4.133	4.133	(1.119)	6525	0.67154	60.8020
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	4214	0.48199	43.6398(Q)
5 Acenaphthylene	152	4.692	4.692	(0.982)	4926	0.27058	24.4989
9 Fluorene	166	5.116	5.116	(1.070)	3111	0.20696	18.7387
11 Phenanthrene	178	5.739	5.739	(1.003)	61816	2.51131	227.3774
12 Anthracene	178	5.768	5.774	(1.008)	10785	0.43222	39.1340
13 Carbazole	167	5.880	5.880	(1.028)	8693	0.40664	36.8173

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.574	6.574	(1.149)	114342	4.20619	380.8342
16 Pyrene	202	6.739	6.739	(0.879)	99960	4.05531	367.1736
17 Benzo(a)anthracene	228	7.651	7.651	(0.998)	59263	2.43416	220.3926
19 Chrysene	228	7.680	7.680	(1.002)	72680	2.86633	259.5217
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	94142	3.99428	361.6479(M)
21 Benzo(k)fluoranthene	252	8.504	8.509	(0.963)	27902	1.22401	110.8231(QM)
22 Benzo(a)pyrene	252	8.774	8.774	(0.994)	54191	2.44215	221.1159
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.962	(1.128)	32037	1.52006	137.6283(M)
25 Dibenzo(a,h)anthracene	278	9.968	9.980	(1.129)	15620	0.80229	72.6400
26 Benzo(g,h,i)perylene	276	10.298	10.303	(1.167)	44893	2.08701	188.9604(M)

QC Flag Legend

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

Data File: 1CD05031.D

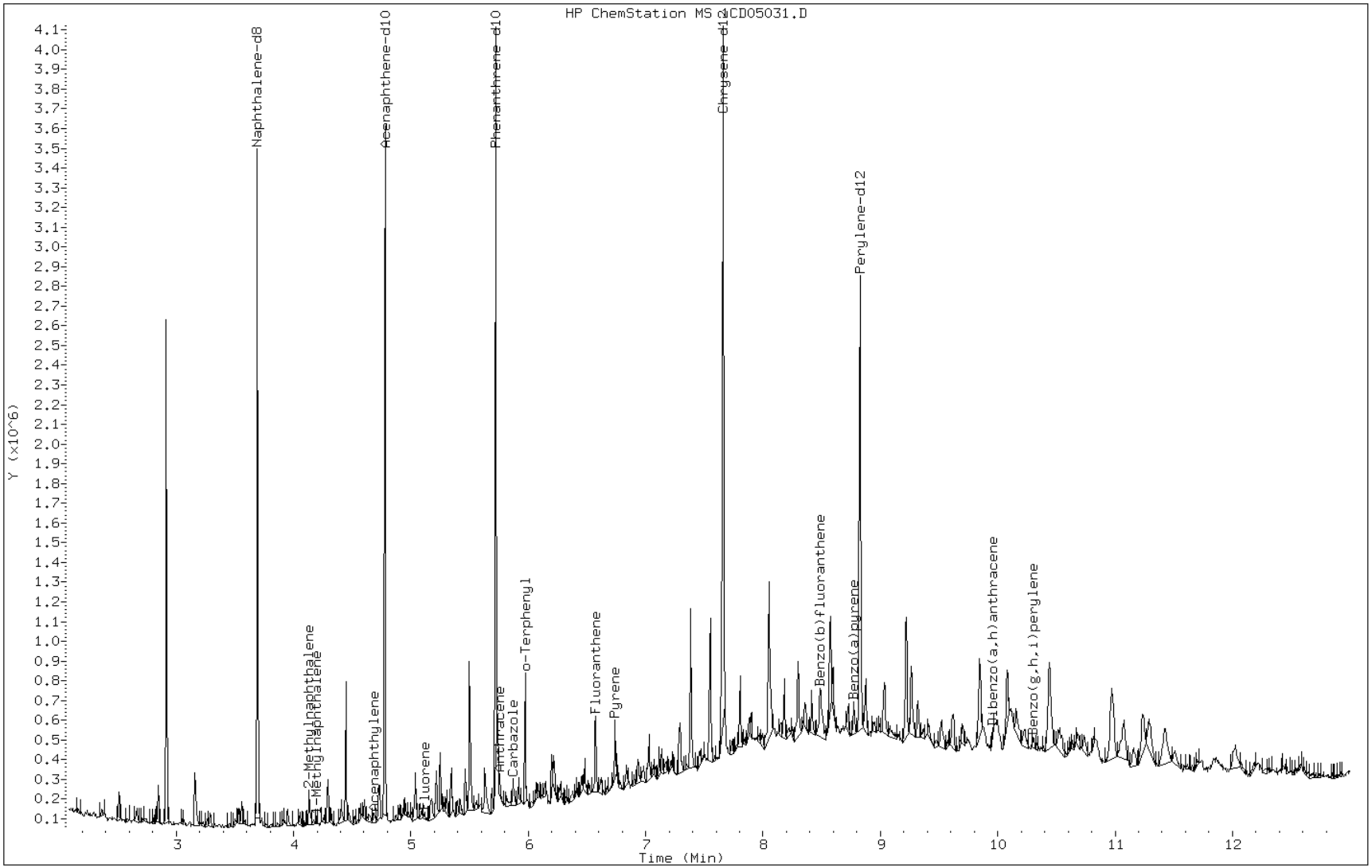
Date: 05-APR-2013 20:37

Client ID: CV0509AJ-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-50-a

Operator: SCC



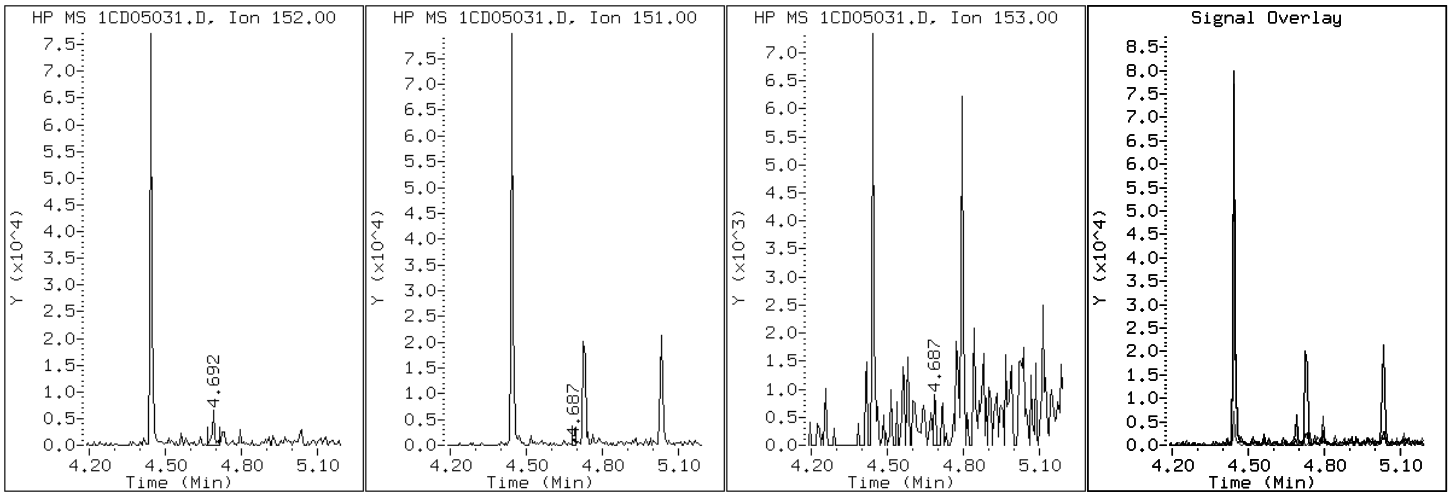
Data File: 1CD05031.D

Date: 05-APR-2013 20:37

Client ID: CV0509AJ-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-50-a Operator: SCC

5 Acenaphthylene



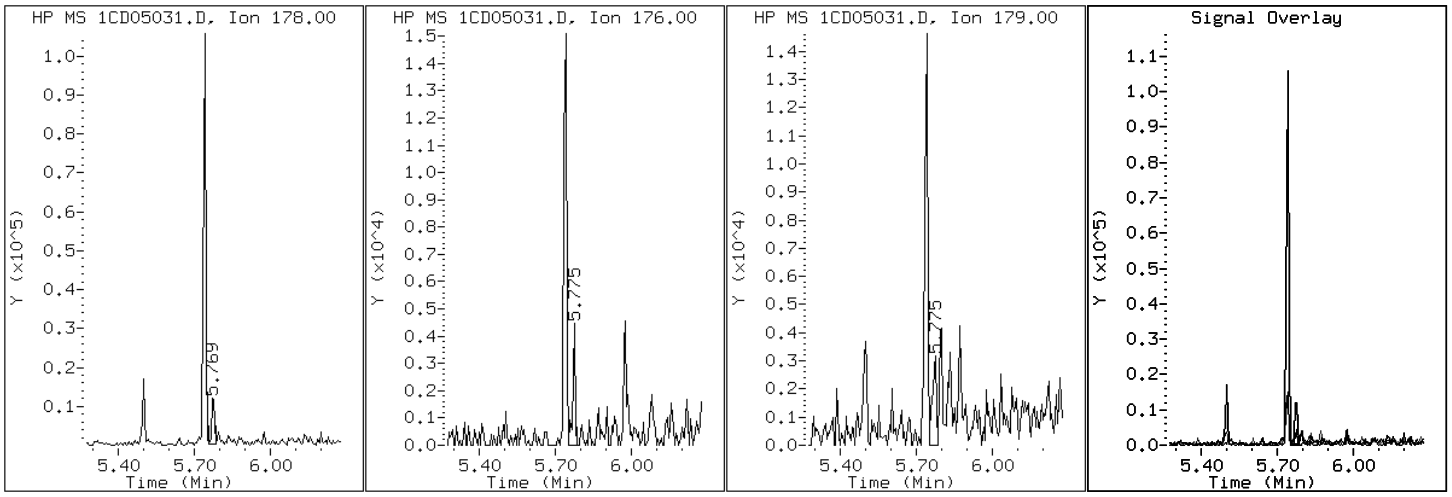
Data File: 1CD05031.D

Date: 05-APR-2013 20:37

Client ID: CV0509AJ-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-50-a Operator: SCC

12 Anthracene



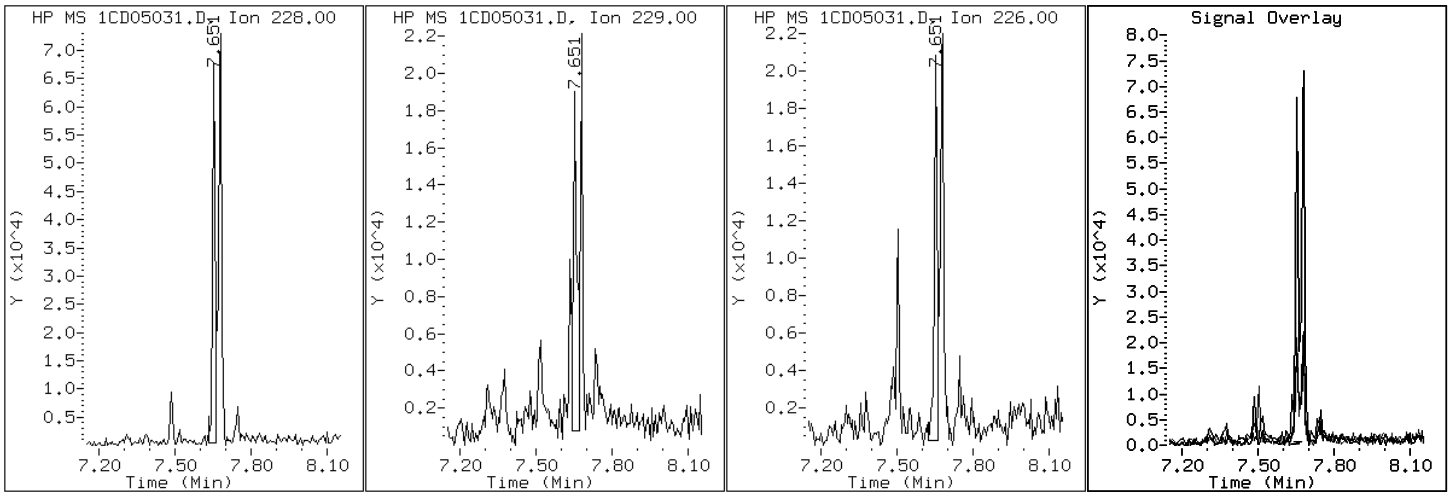
Data File: 1CD05031.D

Date: 05-APR-2013 20:37

Client ID: CV0509AJ-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-50-a Operator: SCC

17 Benzo(a)anthracene



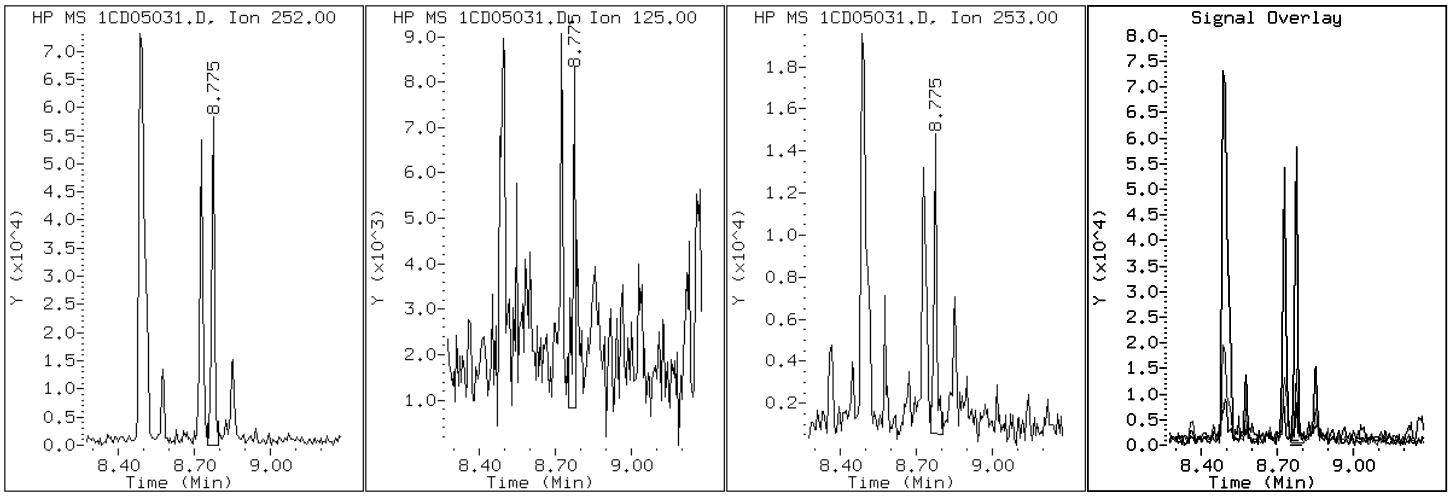
Data File: 1CD05031.D

Date: 05-APR-2013 20:37

Client ID: CV0509AJ-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-50-a Operator: SCC

22 Benzo(a)pyrene



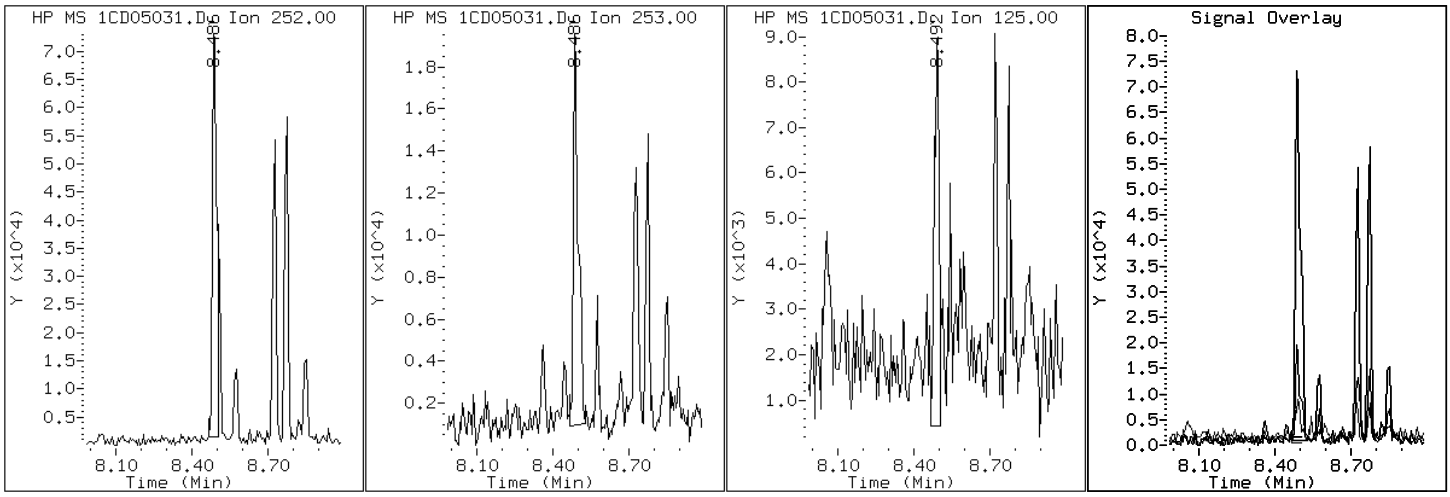
Data File: 1CD05031.D

Date: 05-APR-2013 20:37

Client ID: CV0509AJ-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-50-a Operator: SCC

20 Benzo(b)fluoranthene



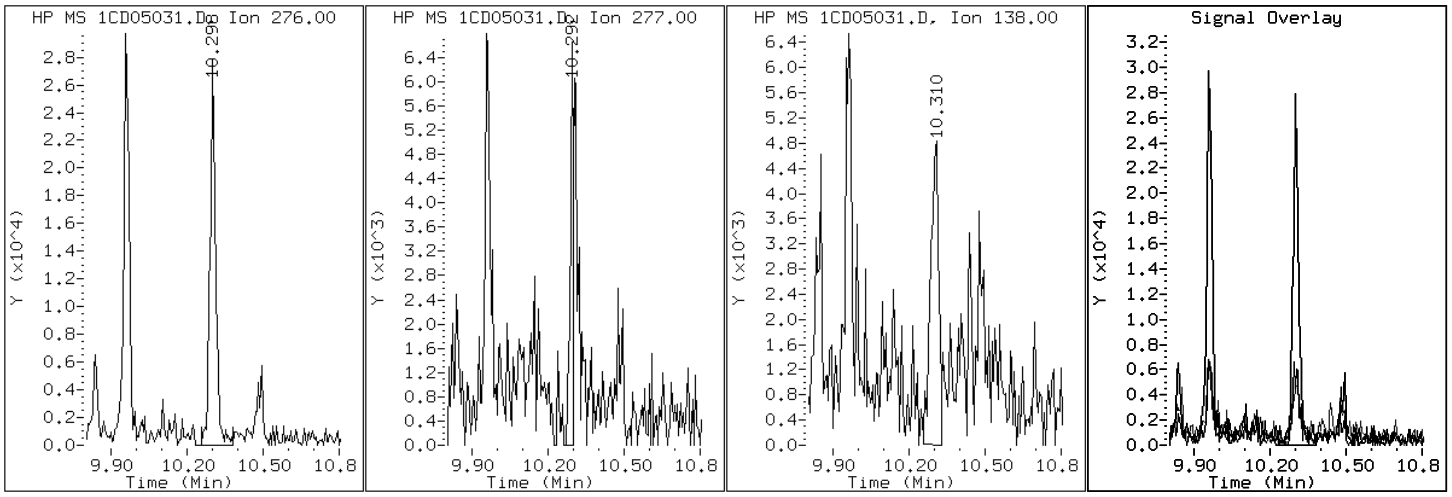
Data File: 1CD05031.D

Date: 05-APR-2013 20:37

Client ID: CV0509AJ-GS | Instrument: BSMC5973.i

Sample Info: 680-88767-a-50-a | Operator: SCC

26 Benzo(g,h,i)perylene



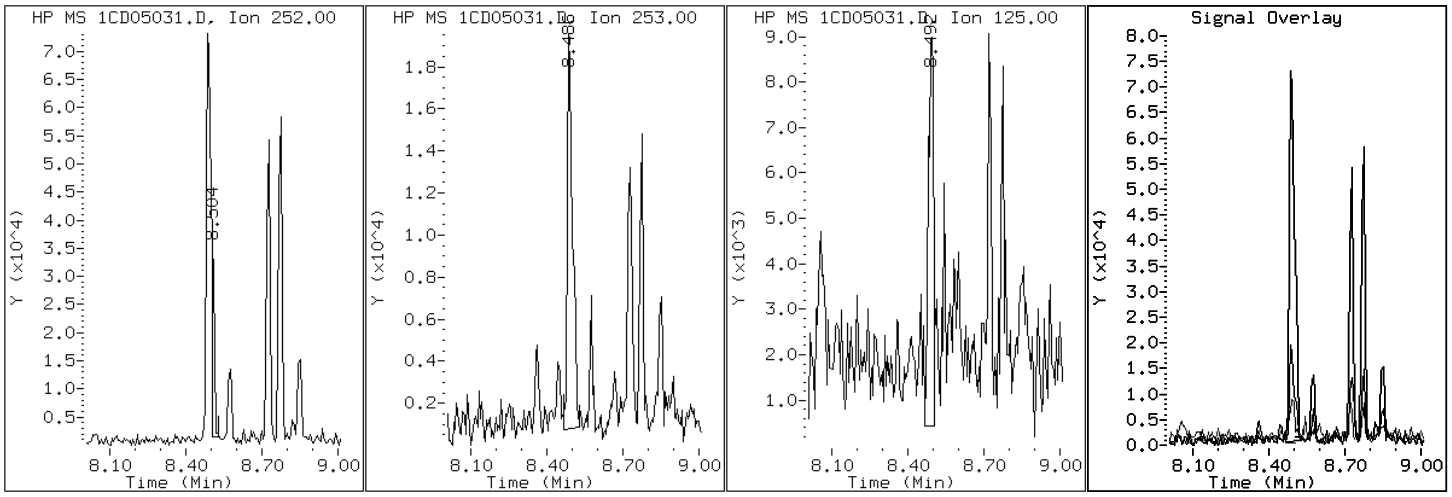
Data File: 1CD05031.D

Date: 05-APR-2013 20:37

Client ID: CV0509AJ-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-50-a Operator: SCC

21 Benzo(k)fluoranthene



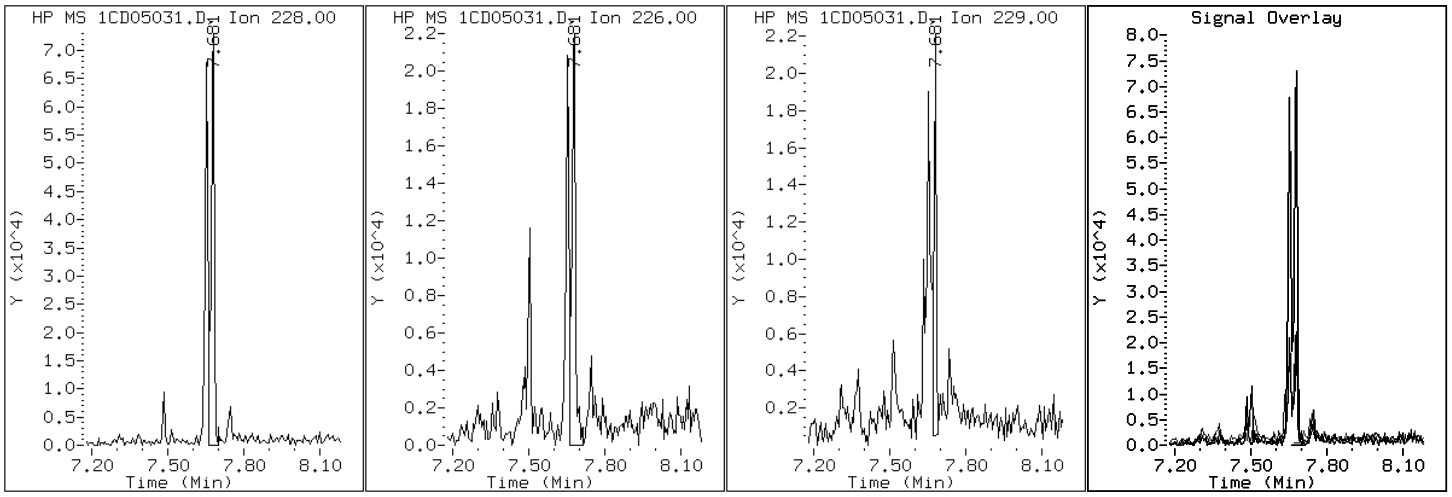
Data File: 1CD05031.D

Date: 05-APR-2013 20:37

Client ID: CV0509AJ-GS | Instrument: BSMC5973.i

Sample Info: 680-88767-a-50-a | Operator: SCC

19 Chrysene



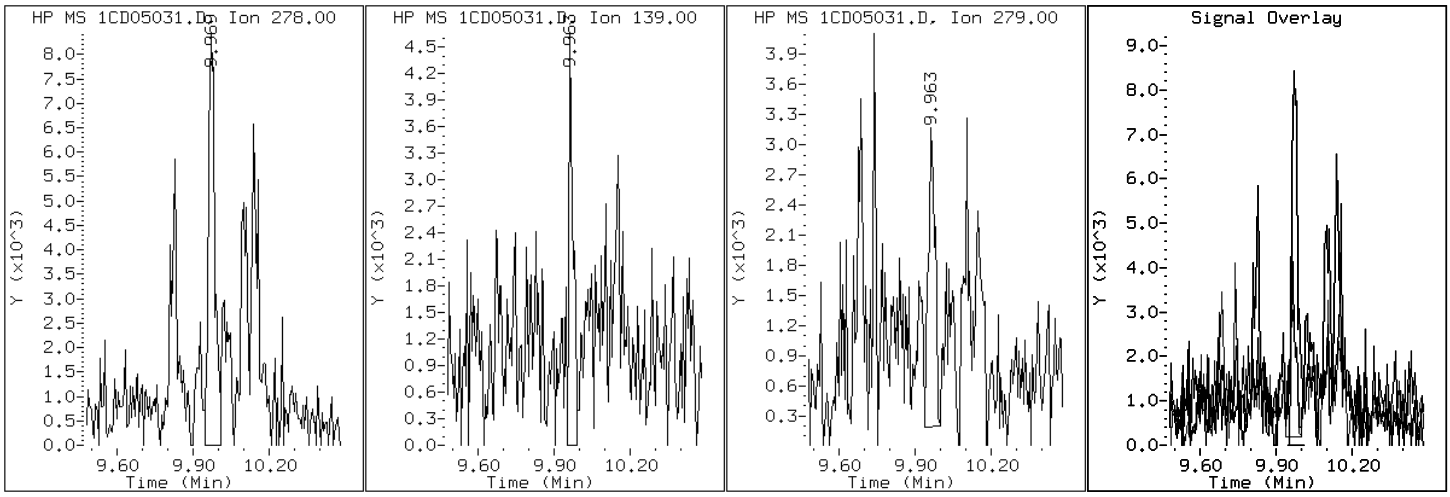
Data File: 1CD05031.D

Date: 05-APR-2013 20:37

Client ID: CV0509AJ-GS | Instrument: BSMC5973.i

Sample Info: 680-88767-a-50-a | Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD05031.D

Date: 05-APR-2013 20:37

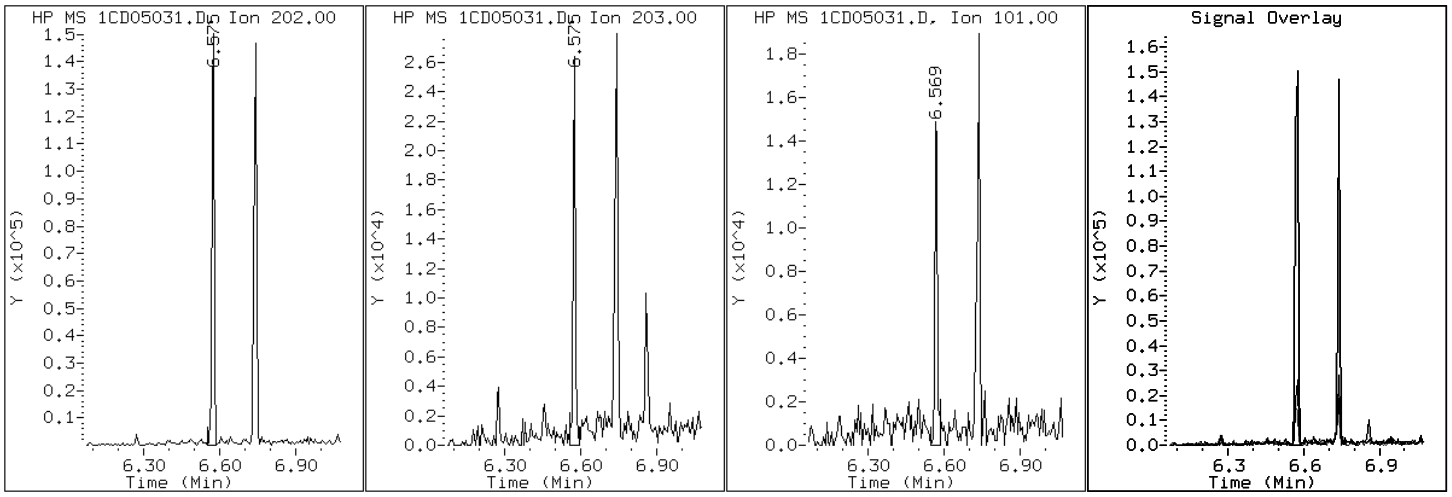
Client ID: CV0509AJ-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-50-a

Operator: SCC

15 Fluoranthene



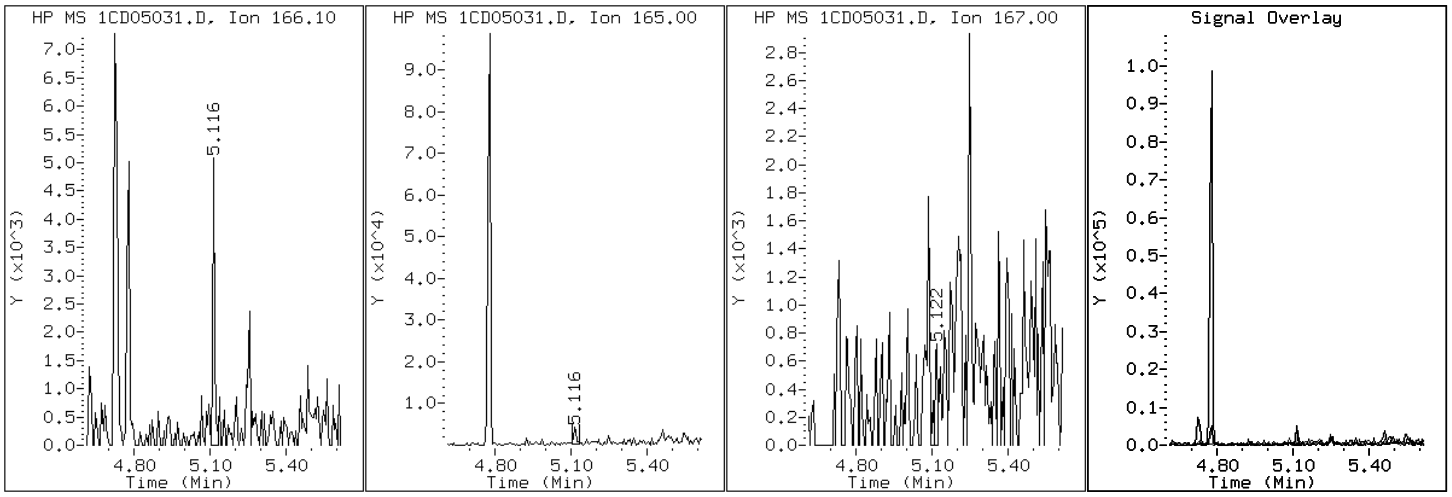
Data File: 1CD05031.D

Date: 05-APR-2013 20:37

Client ID: CV0509AJ-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-50-a Operator: SCC

9 Fluorene



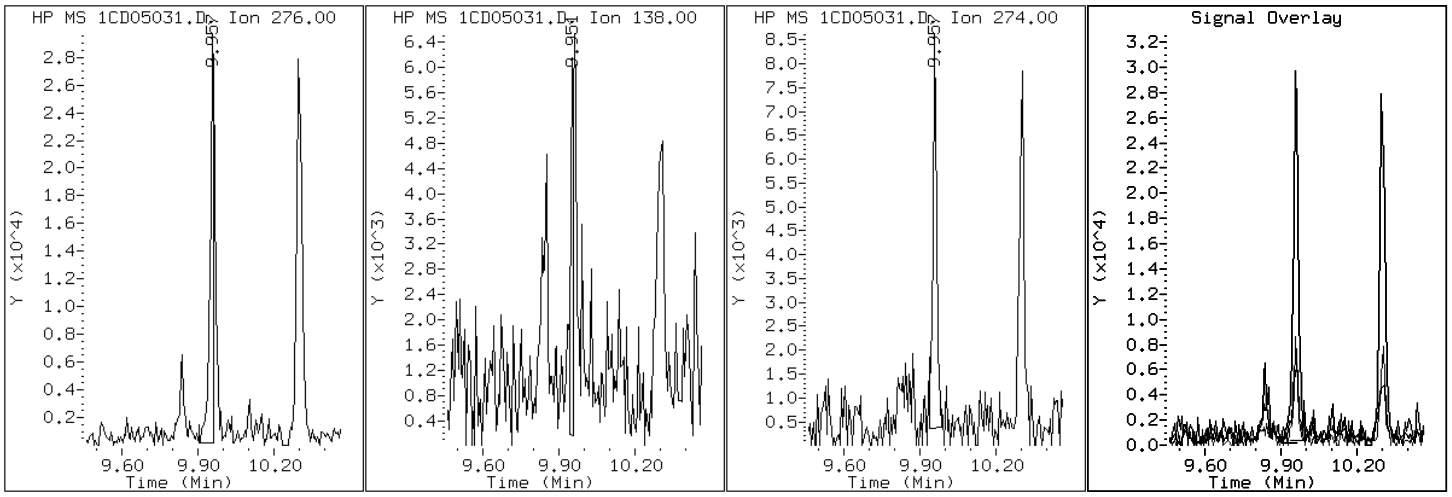
Data File: 1CD05031.D

Date: 05-APR-2013 20:37

Client ID: CV0509AJ-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-50-a Operator: SCC

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



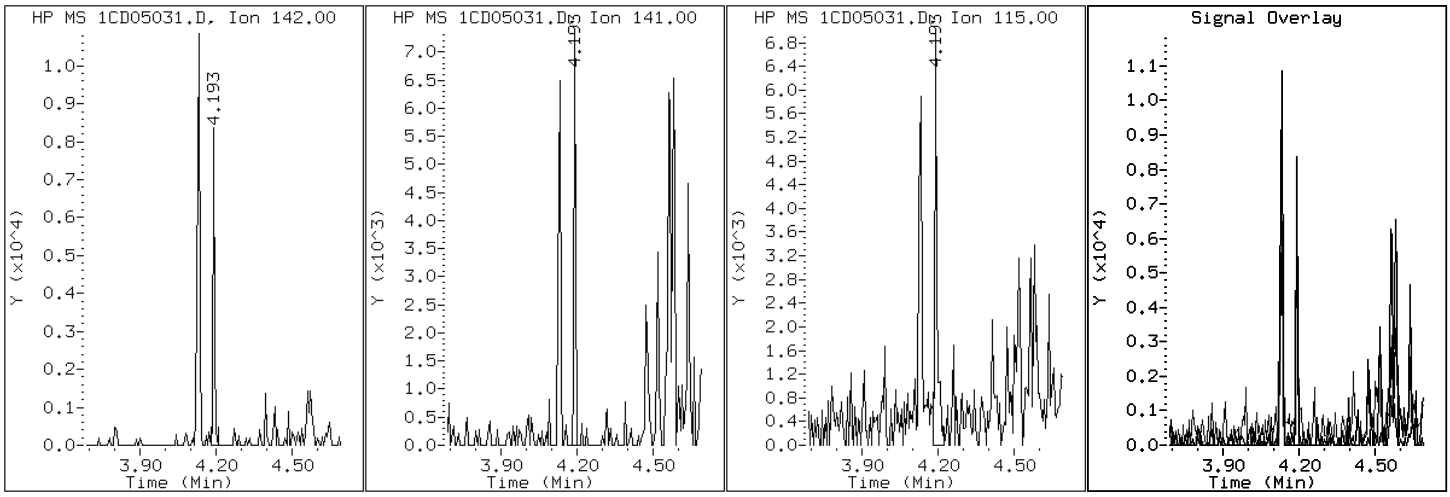
Data File: 1CD05031.D

Date: 05-APR-2013 20:37

Client ID: CV0509AJ-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-50-a Operator: SCC

4 1-Methylnaphthalene



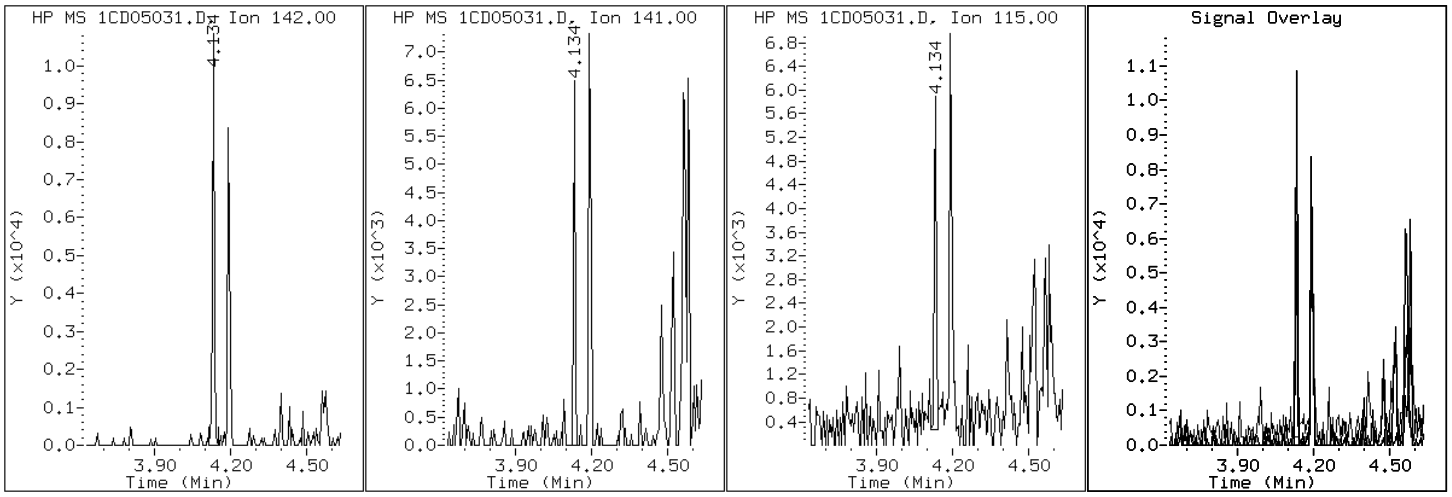
Data File: 1CD05031.D

Date: 05-APR-2013 20:37

Client ID: CV0509AJ-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-50-a Operator: SCC

3 2-Methylnaphthalene



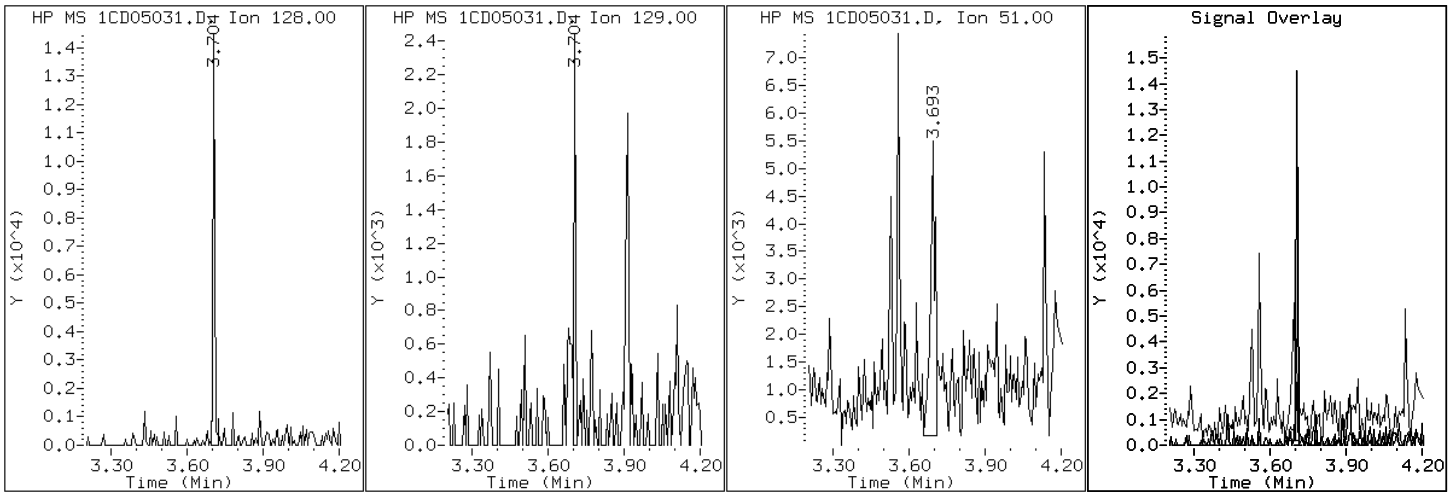
Data File: 1CD05031.D

Date: 05-APR-2013 20:37

Client ID: CV0509AJ-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-50-a Operator: SCC

2 Naphthalene



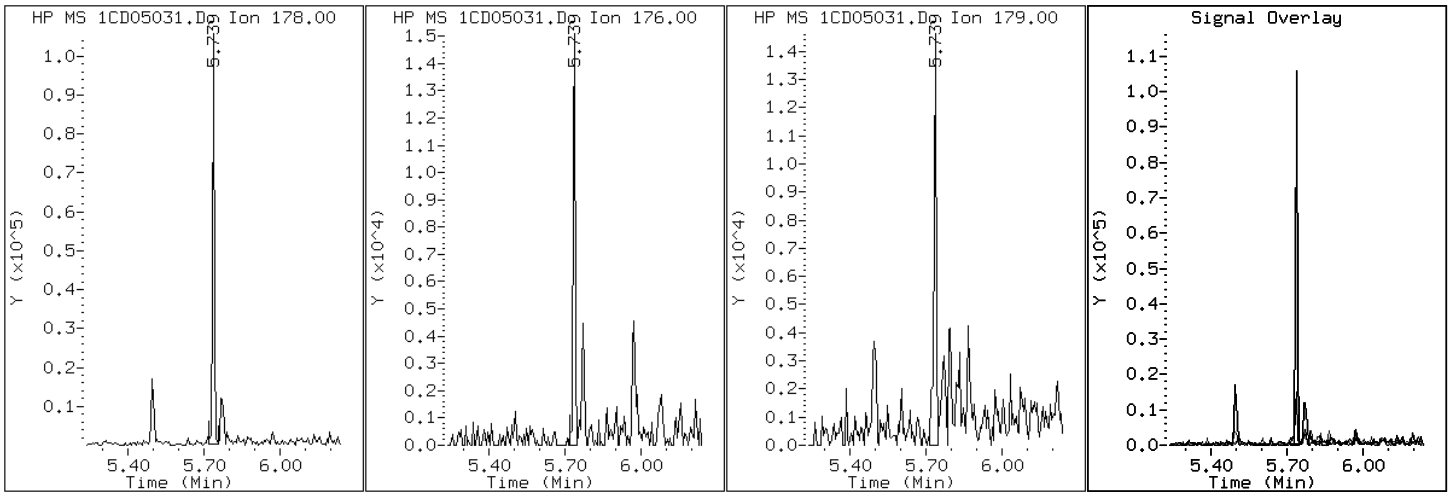
Data File: 1CD05031.D

Date: 05-APR-2013 20:37

Client ID: CV0509AJ-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-50-a Operator: SCC

11 Phenanthrene



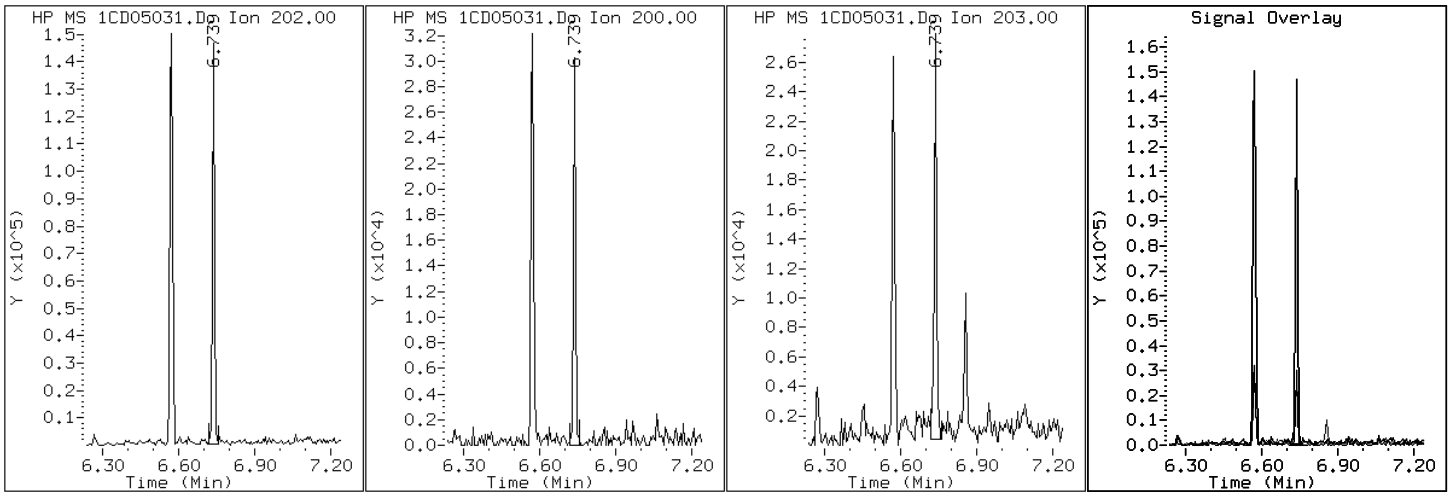
Data File: 1CD05031.D

Date: 05-APR-2013 20:37

Client ID: CV0509AJ-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-50-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD05031.D
Inj. Date and Time: 05-APR-2013 20:37
Instrument ID: BSMC5973.i
Client ID: CV0509AJ-GS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/09/2013

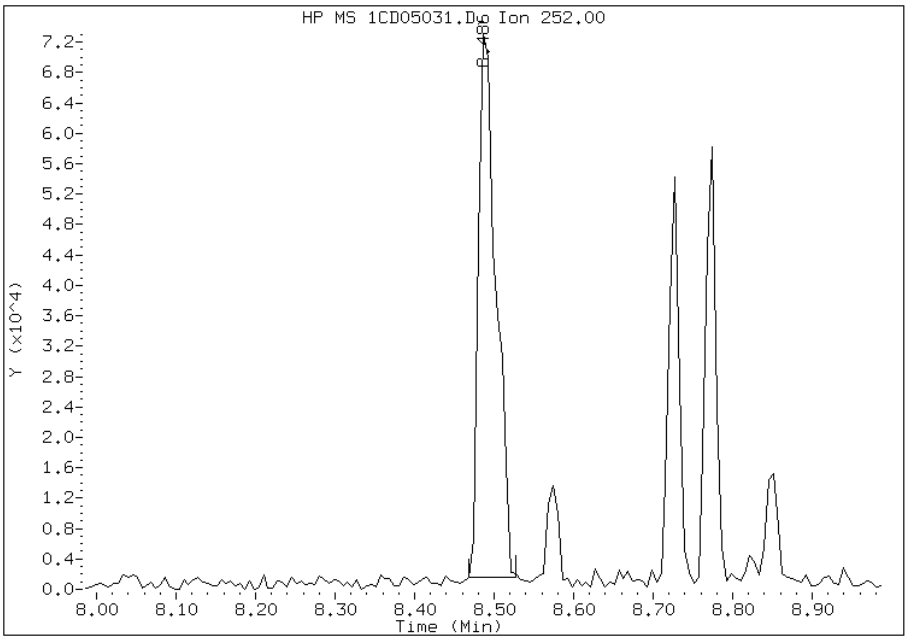
Processing Integration Results

RT: 8.49

Response: 109892

Amount: 5

Conc: 422



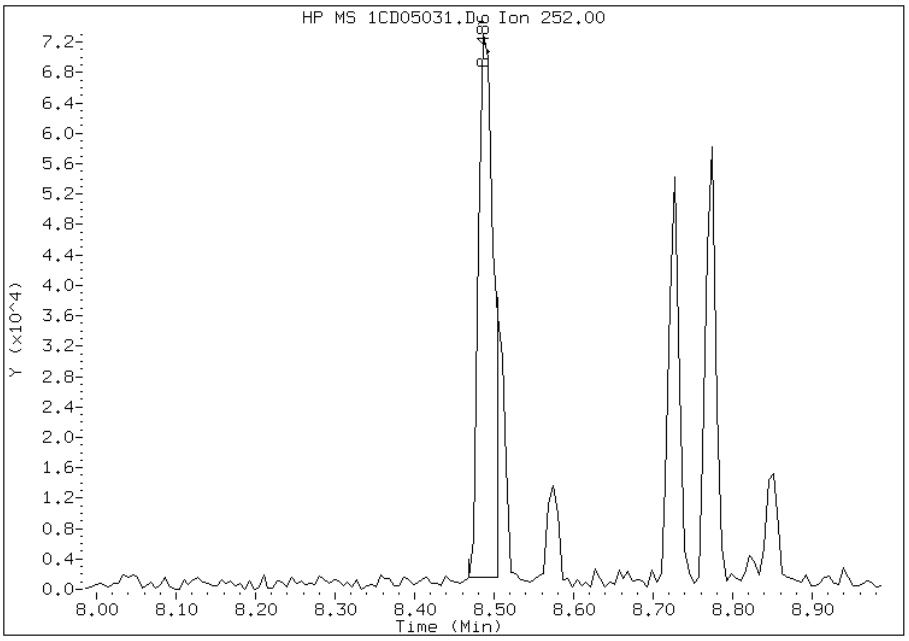
Manual Integration Results

RT: 8.49

Response: 94142

Amount: 4

Conc: 362



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:42
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD05031.D
Inj. Date and Time: 05-APR-2013 20:37
Instrument ID: BSMC5973.i
Client ID: CV0509AJ-GS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/09/2013

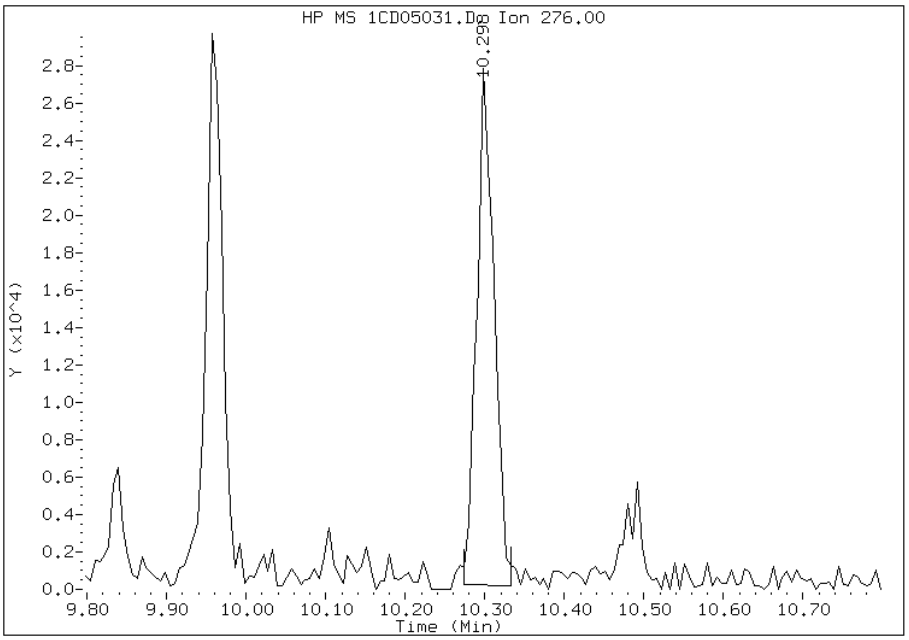
Processing Integration Results

RT: 10.30

Response: 41664

Amount: 2

Conc: 175



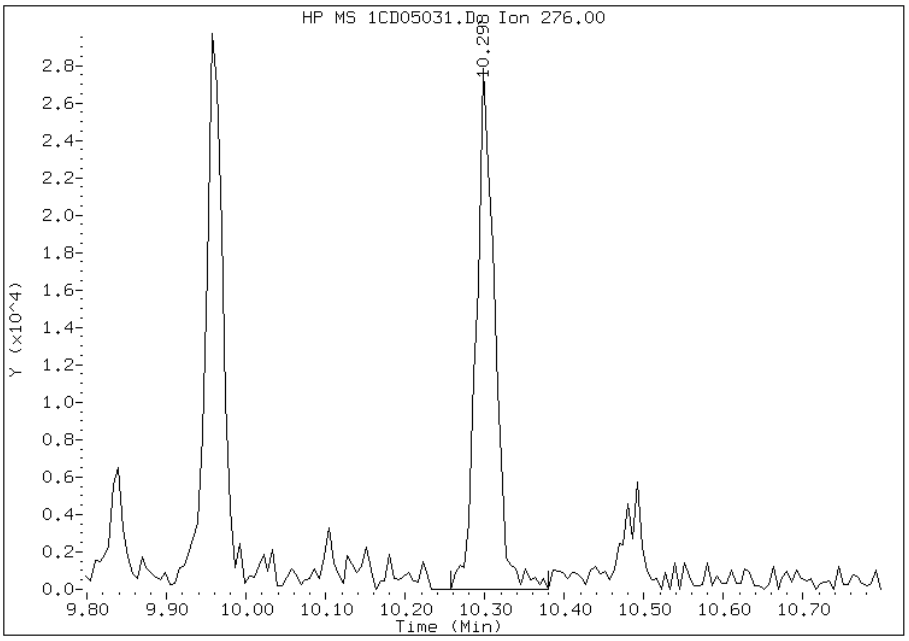
Manual Integration Results

RT: 10.30

Response: 44893

Amount: 2

Conc: 189



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:43
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD05031.D
Inj. Date and Time: 05-APR-2013 20:37
Instrument ID: BSMC5973.i
Client ID: CV0509AJ-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/09/2013

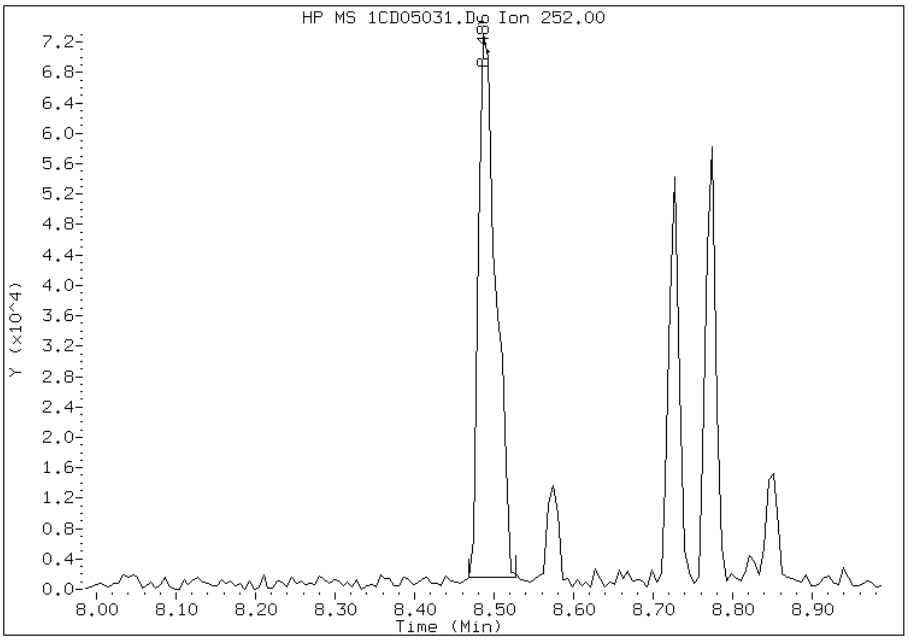
Processing Integration Results

RT: 8.49

Response: 109892

Amount: 5

Conc: 436



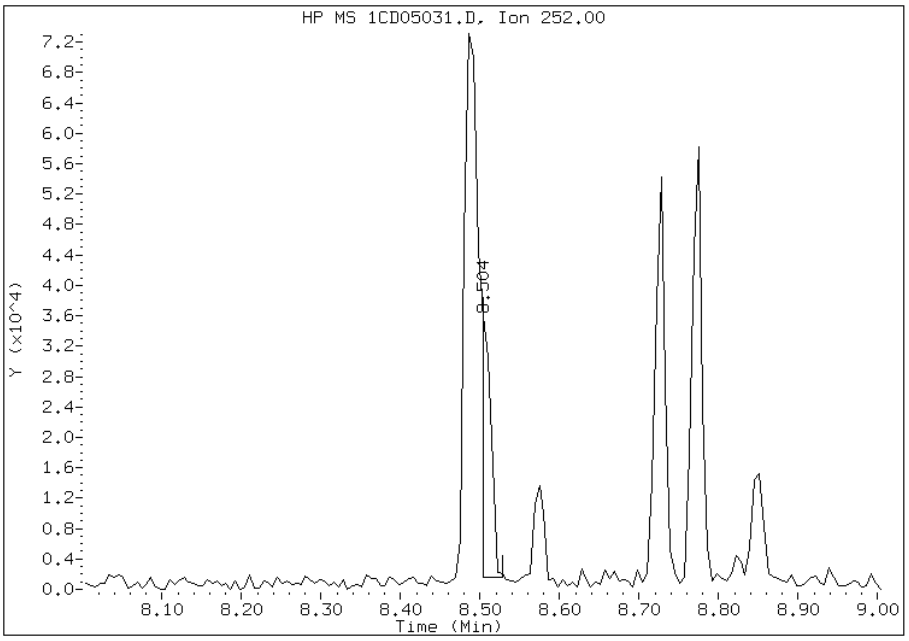
Manual Integration Results

RT: 8.50

Response: 27902

Amount: 1

Conc: 111



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:42
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD05031.D
Inj. Date and Time: 05-APR-2013 20:37
Instrument ID: BSMC5973.i
Client ID: CV0509AJ-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

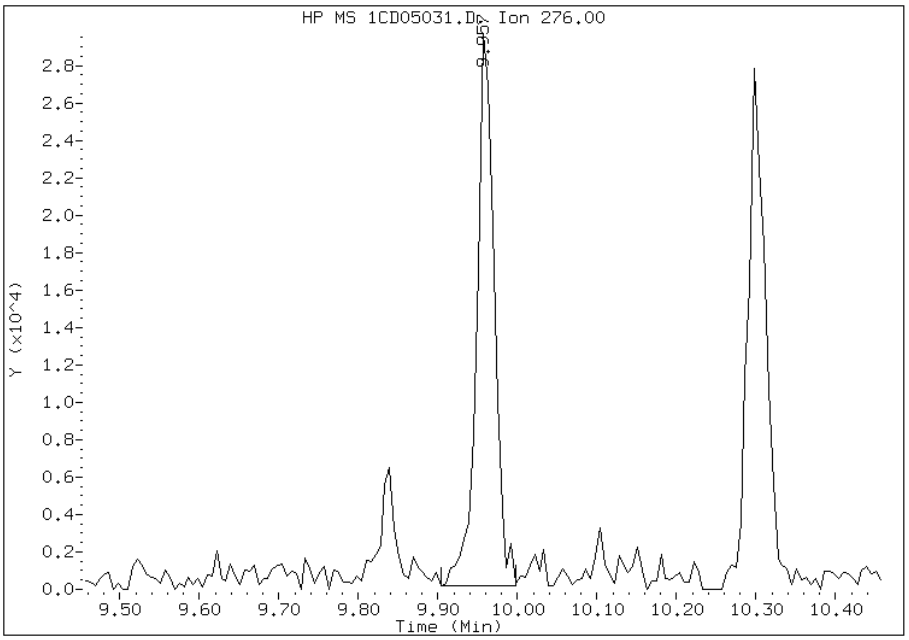
Processing Integration Results

RT: 9.96

Response: 44900

Amount: 2

Conc: 193



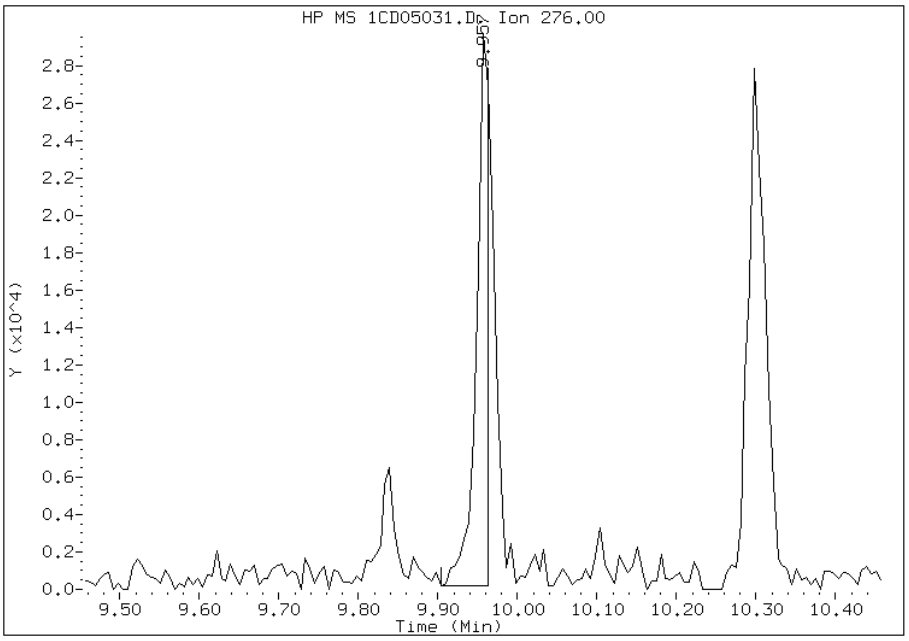
Manual Integration Results

RT: 9.96

Response: 32037

Amount: 2

Conc: 138



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:43
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88767-3

SDG No.: 68088767-3

Client Sample ID: CV0509AK-GS | Lab Sample ID: 680-88767-51

Matrix: Solid | Lab File ID: 1CD05034.D

Analysis Method: 8270C LL | Date Collected: 03/26/2013 15:35

Extract. Method: 3546 | Date Extracted: 04/04/2013 10:07

Sample wt/vol: 15.07(g) | Date Analyzed: 04/05/2013 21:32

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.: 136171 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	29
208-96-8	Acenaphthylene	16	J	58	7.2
120-12-7	Anthracene	43		12	6.1
56-55-3	Benzo[a]anthracene	140		12	5.6
50-32-8	Benzo[a]pyrene	91		15	7.5
205-99-2	Benzo[b]fluoranthene	130		18	8.8
191-24-2	Benzo[g,h,i]perylene	51		29	6.4
207-08-9	Benzo[k]fluoranthene	66		12	5.2
218-01-9	Chrysene	130		13	6.5
53-70-3	Dibenz(a,h)anthracene	31		29	5.9
206-44-0	Fluoranthene	270		29	5.8
86-73-7	Fluorene	27	J	29	5.9
193-39-5	Indeno[1,2,3-cd]pyrene	48		29	10
90-12-0	1-Methylnaphthalene	21	J	58	6.4
91-57-6	2-Methylnaphthalene	20	J	58	10
91-20-3	Naphthalene	12	J	58	6.4
85-01-8	Phenanthrene	190		12	5.6
129-00-0	Pyrene	200		29	5.4

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05034.D
Lab Smp Id: 680-88767-A-51-A Client Smp ID: CV0509AK-GS
Inj Date : 05-APR-2013 21:32
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88767-a-51-a
Misc Info : 680-88767-A-51-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m
Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 33
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	15.070	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	3.692	3.692	(1.000)	513412	40.0000	
* 6 Acenaphthene-d10	164	4.780	4.780	(1.000)	392664	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	745221	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	59798	5.64144	544.1571
* 18 Chrysene-d12	240	7.657	7.662	(1.000)	810567	40.0000	
* 23 Perylene-d12	264	8.821	8.827	(1.000)	774263	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	1693	0.12839	12.3836(Q)
3 2-Methylnaphthalene	142	4.133	4.133	(1.119)	1819	0.20264	19.5460
4 1-Methylnaphthalene	142	4.198	4.192	(1.137)	1761	0.21802	21.0298
5 Acenaphthylene	152	4.692	4.692	(0.982)	2650	0.16306	15.7285
9 Fluorene	166	5.116	5.116	(1.070)	3766	0.28066	27.0714
11 Phenanthrene	178	5.739	5.739	(1.003)	43767	2.01651	194.5069
12 Anthracene	178	5.769	5.774	(1.008)	9706	0.44115	42.5516
13 Carbazole	167	5.880	5.880	(1.028)	8734	0.46334	44.6928

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.568	6.574	(1.148)	66877	2.79007	269.1217
16 Pyrene	202	6.739	6.739	(0.880)	46660	2.07809	200.4463
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	31455	1.47493	142.2674
19 Chrysene	228	7.674	7.680	(1.002)	31097	1.34633	129.8629
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.961)	29510	1.34816	130.0397
21 Benzo(k)fluoranthene	252	8.504	8.509	(0.964)	14519	0.68581	66.1509(Q)
22 Benzo(a)pyrene	252	8.768	8.774	(0.994)	19544	0.94837	91.4767
24 Indeno(1,2,3-cd)pyrene	276	9.951	9.962	(1.128)	9705	0.49582	47.8250(M)
25 Dibenzo(a,h)anthracene	278	9.962	9.980	(1.129)	5861	0.32414	31.2658
26 Benzo(g,h,i)perylene	276	10.292	10.303	(1.167)	10468	0.52399	50.5429

QC Flag Legend

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

Data File: 1CD05034.D

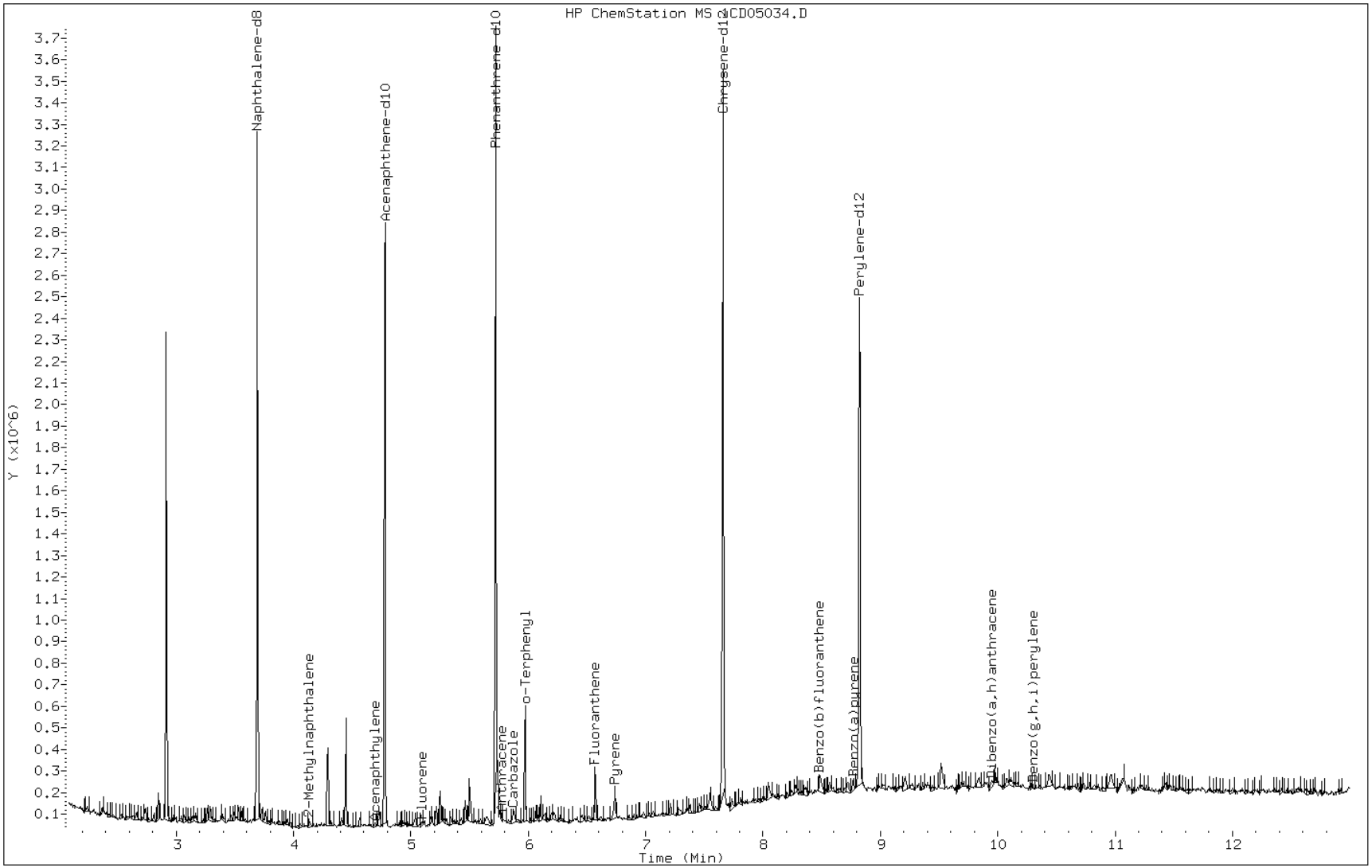
Date: 05-APR-2013 21:32

Client ID: CV0509AK-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-51-a

Operator: SCC



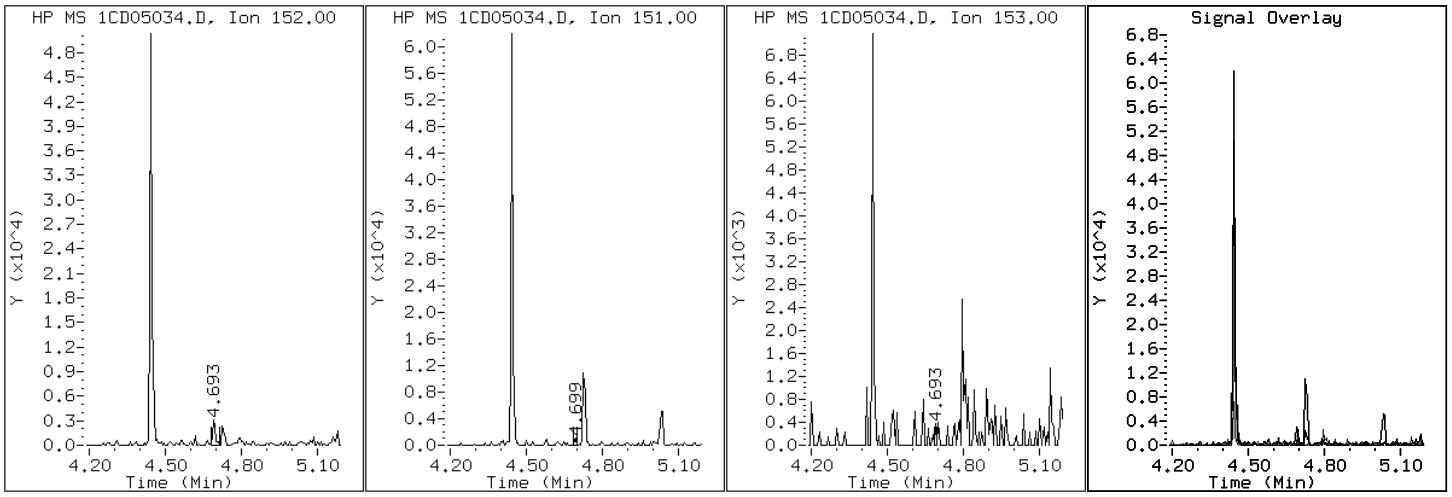
Data File: 1CD05034.D

Date: 05-APR-2013 21:32

Client ID: CV0509AK-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-51-a Operator: SCC

5 Acenaphthylene



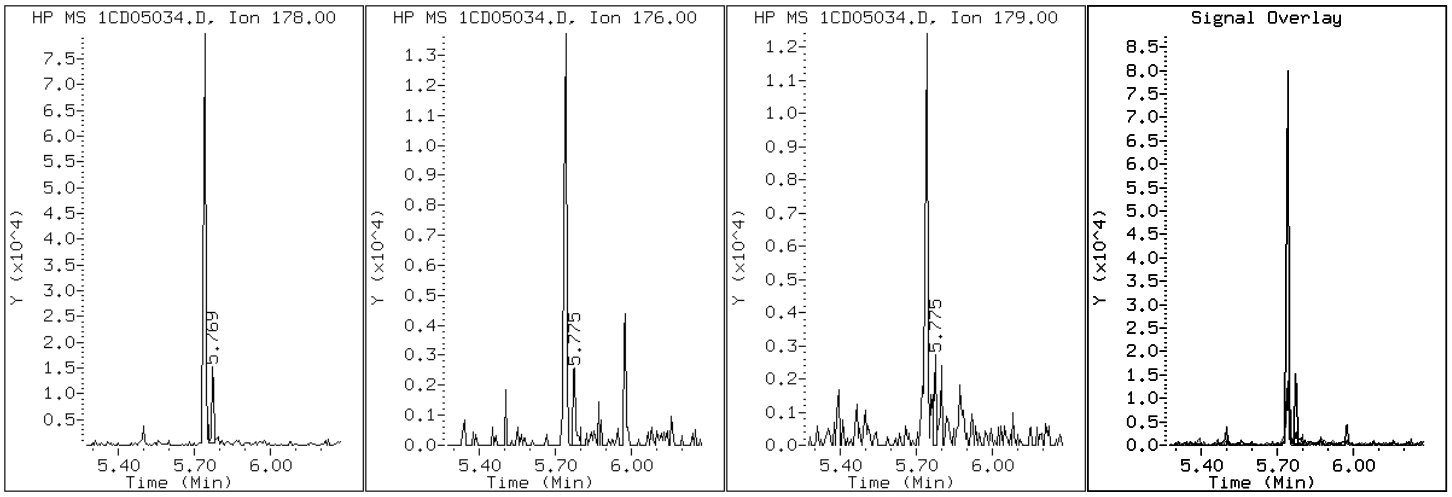
Data File: 1CD05034.D

Date: 05-APR-2013 21:32

Client ID: CV0509AK-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-51-a Operator: SCC

12 Anthracene



Data File: 1CD05034.D

Date: 05-APR-2013 21:32

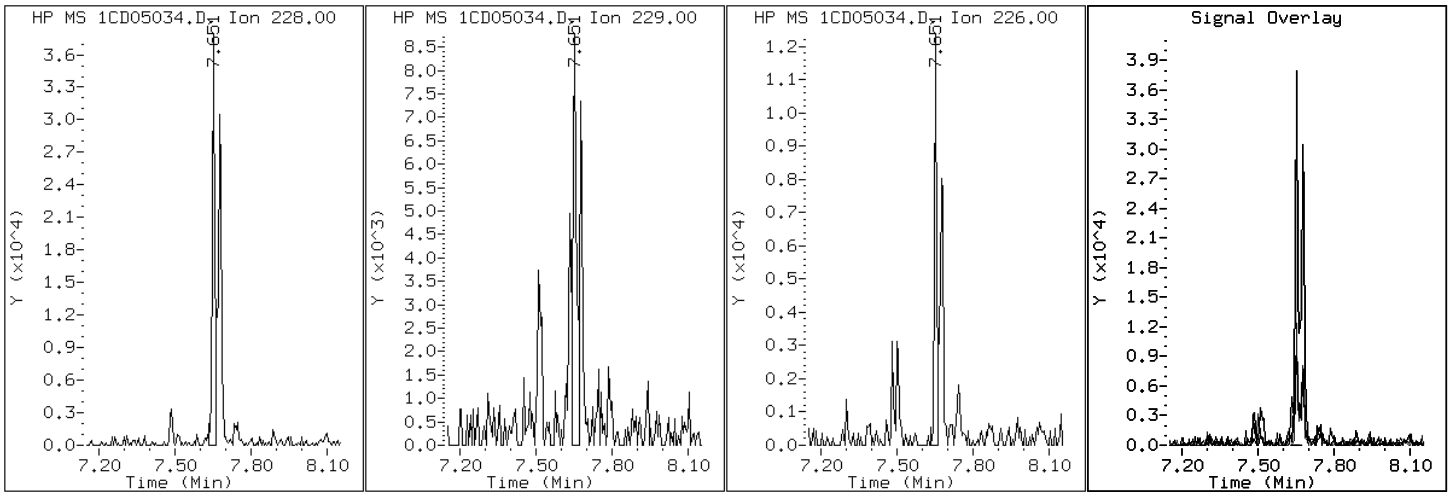
Client ID: CV0509AK-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-51-a

Operator: SCC

17 Benzo(a)anthracene



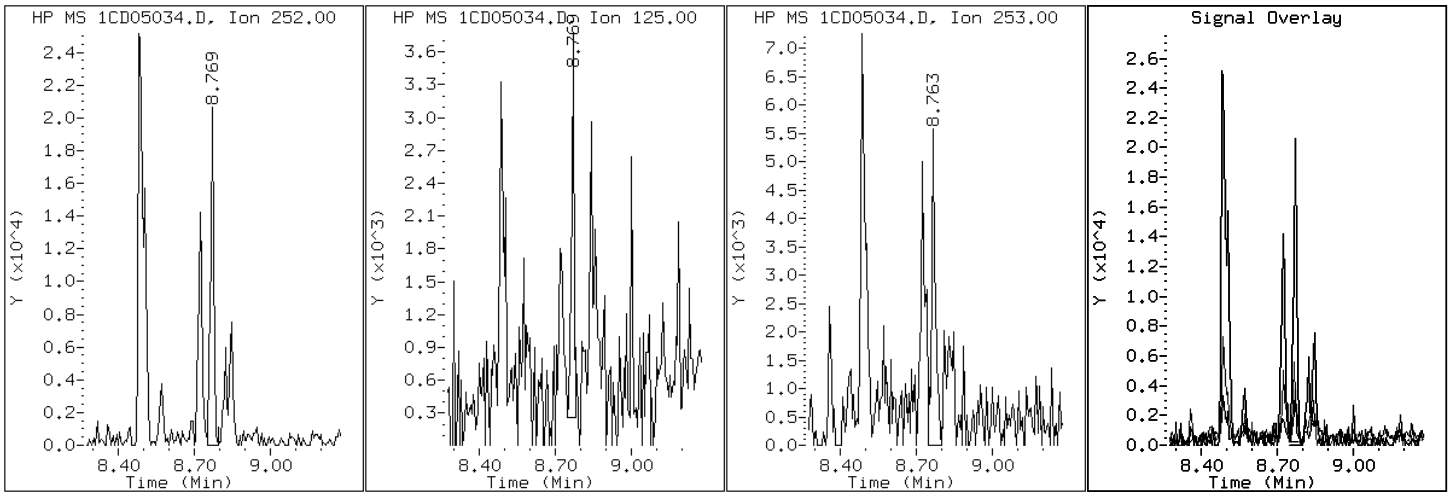
Data File: 1CD05034.D

Date: 05-APR-2013 21:32

Client ID: CV0509AK-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-51-a Operator: SCC

22 Benzo(a)pyrene



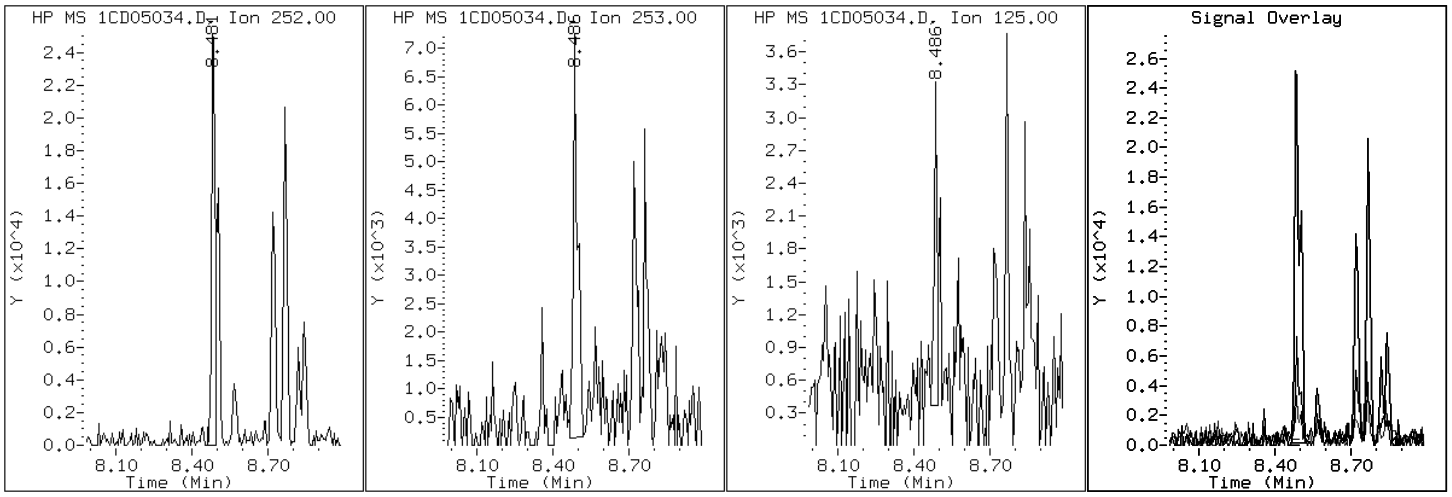
Data File: 1CD05034.D

Date: 05-APR-2013 21:32

Client ID: CV0509AK-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-51-a Operator: SCC

20 Benzo(b)fluoranthene



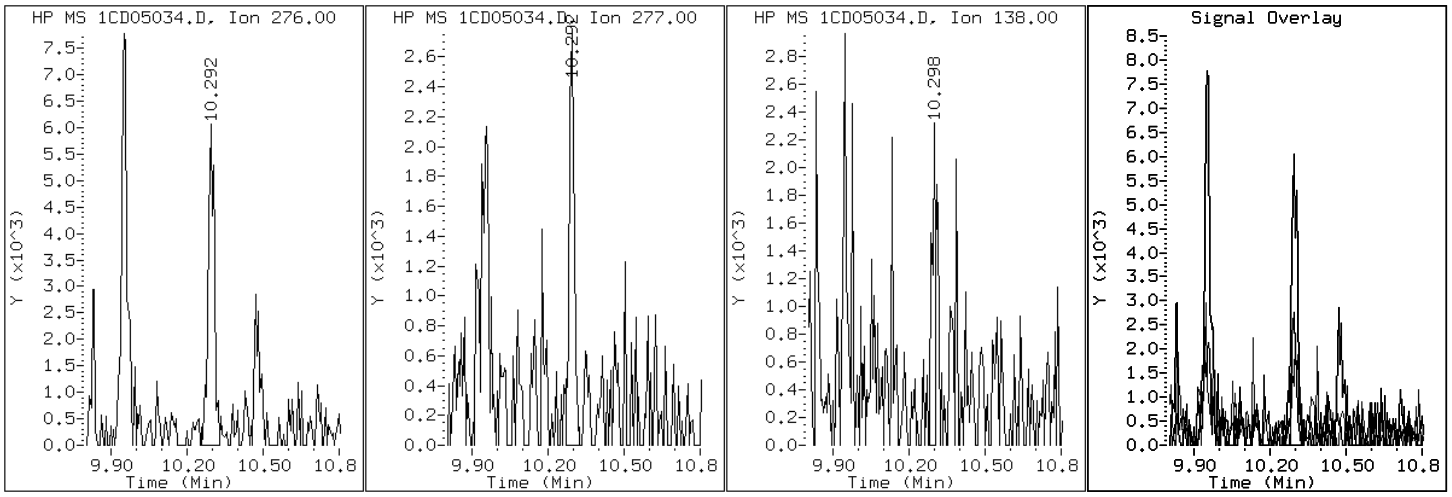
Data File: 1CD05034.D

Date: 05-APR-2013 21:32

Client ID: CV0509AK-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-51-a Operator: SCC

26 Benzo(g,h,i)perylene



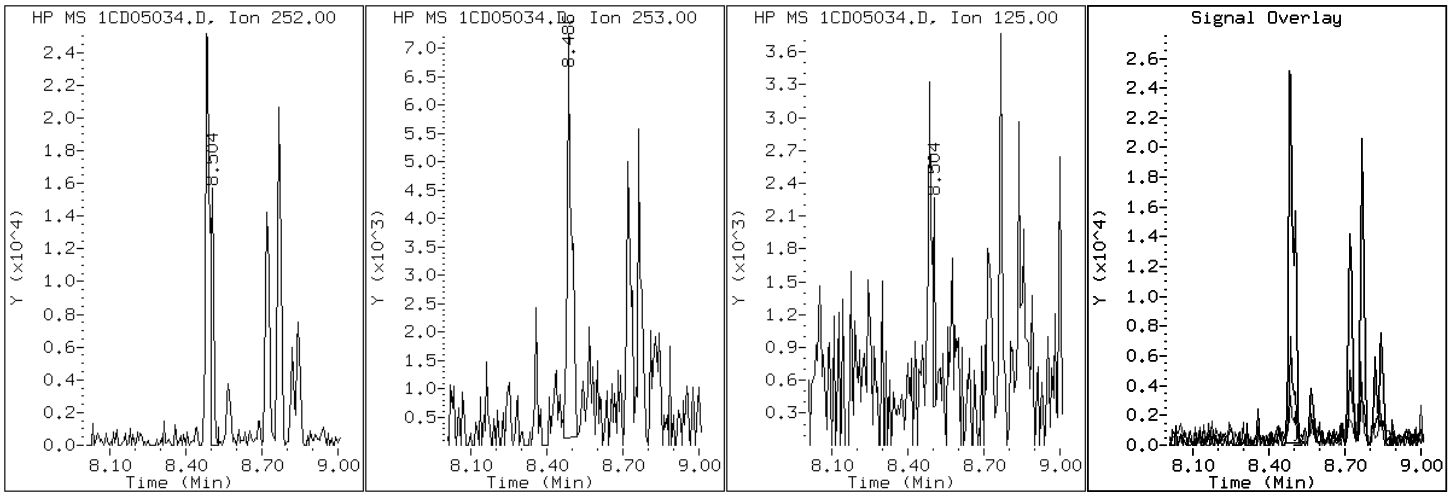
Data File: 1CD05034.D

Date: 05-APR-2013 21:32

Client ID: CV0509AK-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-51-a Operator: SCC

21 Benzo(k)fluoranthene



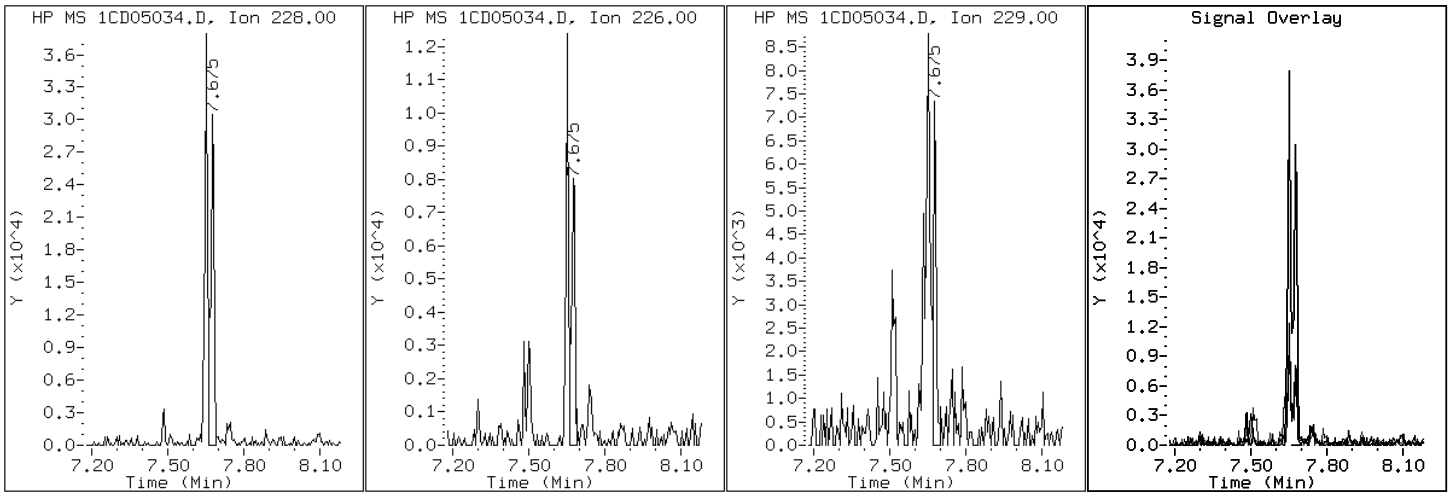
Data File: 1CD05034.D

Date: 05-APR-2013 21:32

Client ID: CV0509AK-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-51-a Operator: SCC

19 Chrysene



Data File: 1CD05034.D

Date: 05-APR-2013 21:32

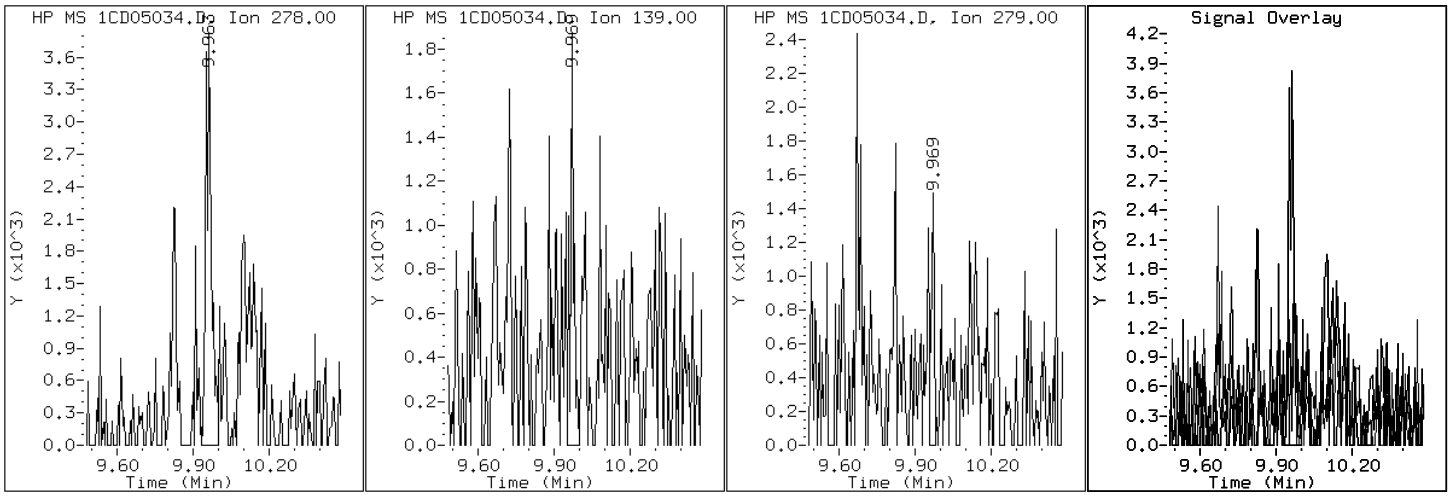
Client ID: CV0509AK-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-51-a

Operator: SCC

25 Dibenzo(a,h)anthracene



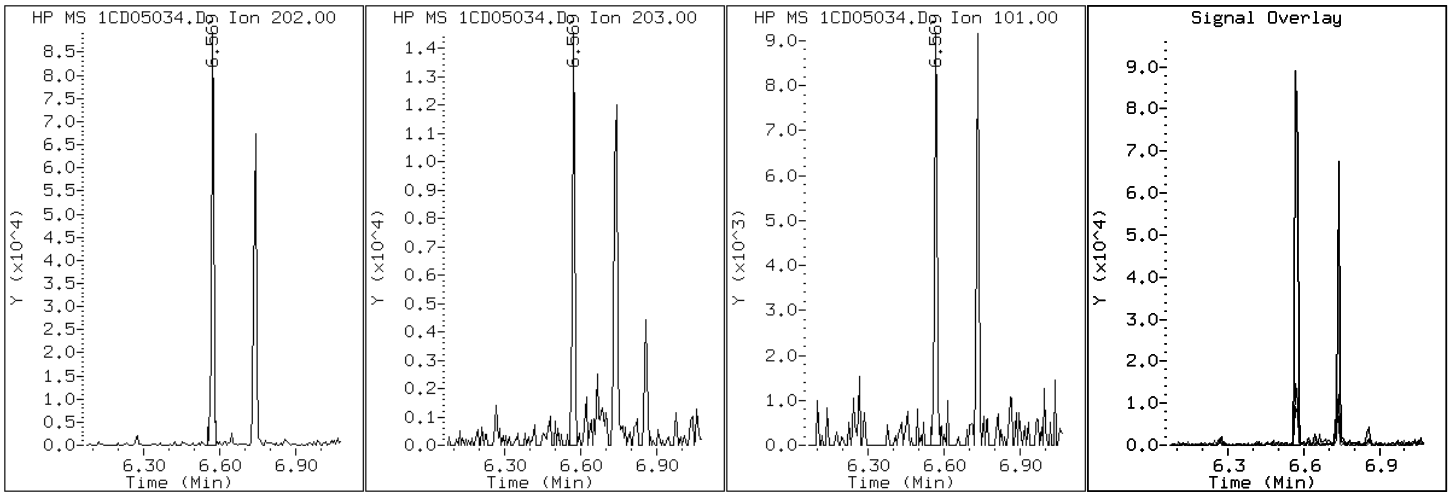
Data File: 1CD05034.D

Date: 05-APR-2013 21:32

Client ID: CV0509AK-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-51-a Operator: SCC

15 Fluoranthene



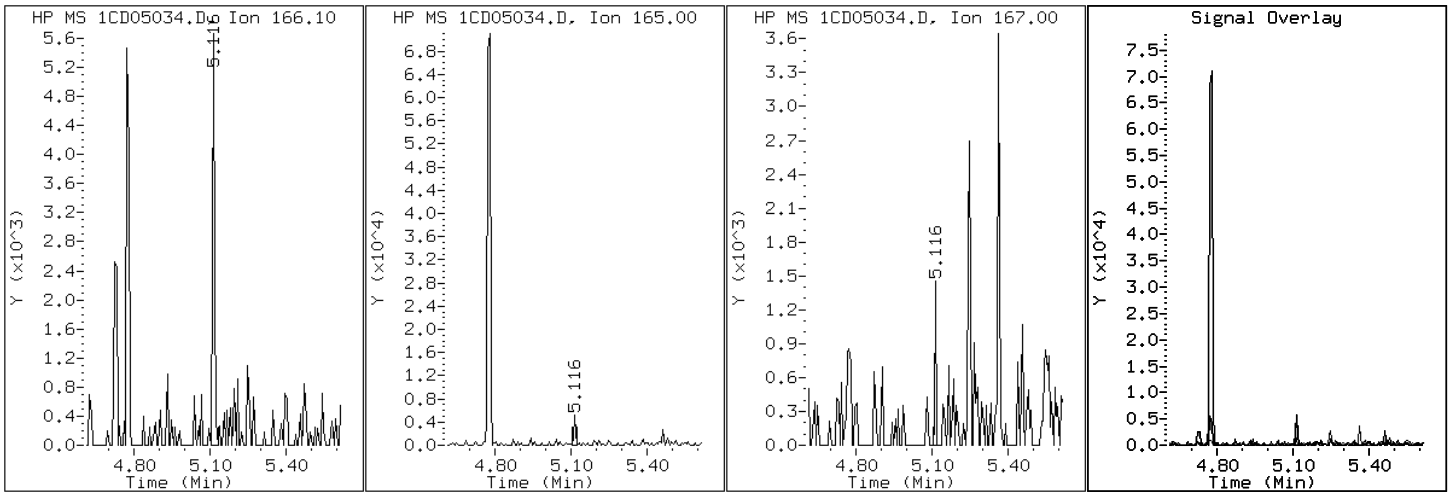
Data File: 1CD05034.D

Date: 05-APR-2013 21:32

Client ID: CV0509AK-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-51-a Operator: SCC

9 Fluorene



Data File: 1CD05034.D

Date: 05-APR-2013 21:32

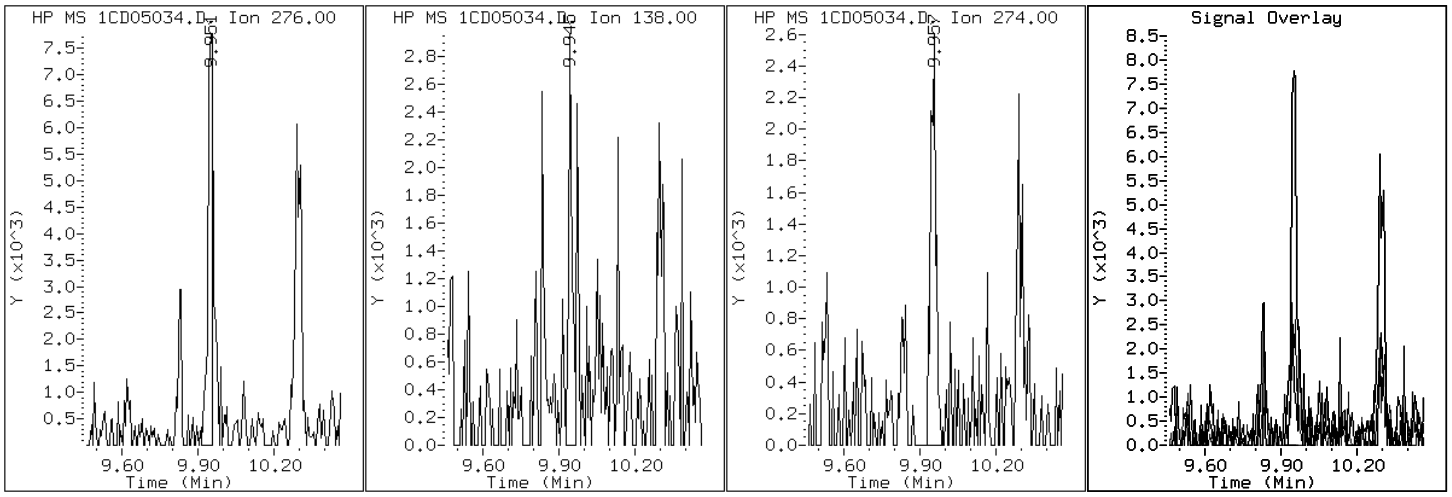
Client ID: CV0509AK-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-51-a

Operator: SCC

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



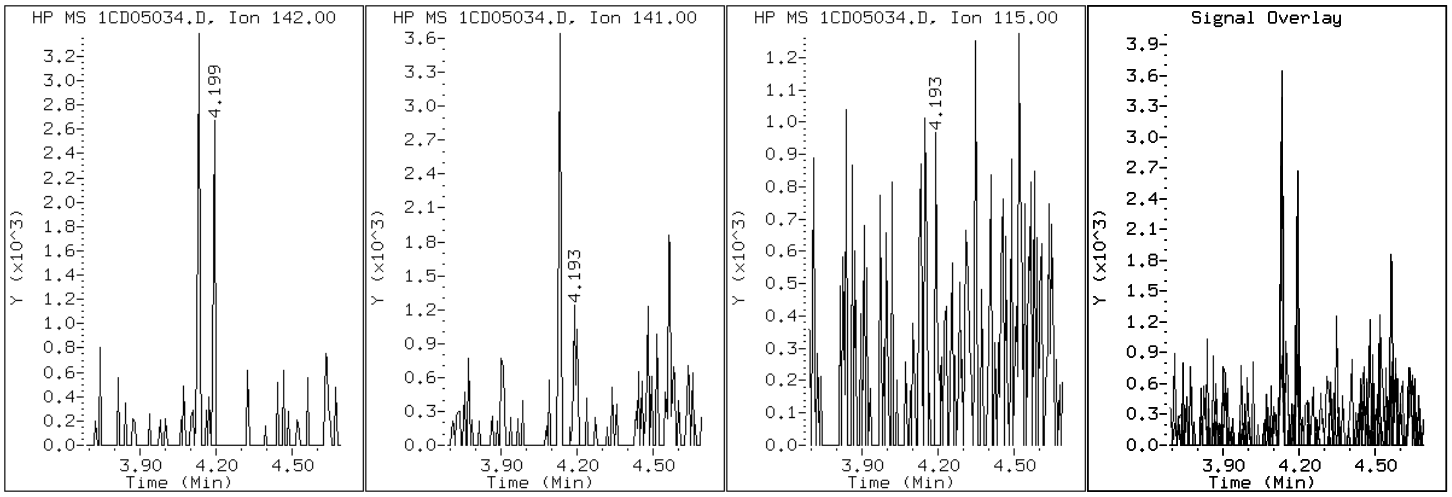
Data File: 1CD05034.D

Date: 05-APR-2013 21:32

Client ID: CV0509AK-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-51-a Operator: SCC

4 1-Methylnaphthalene



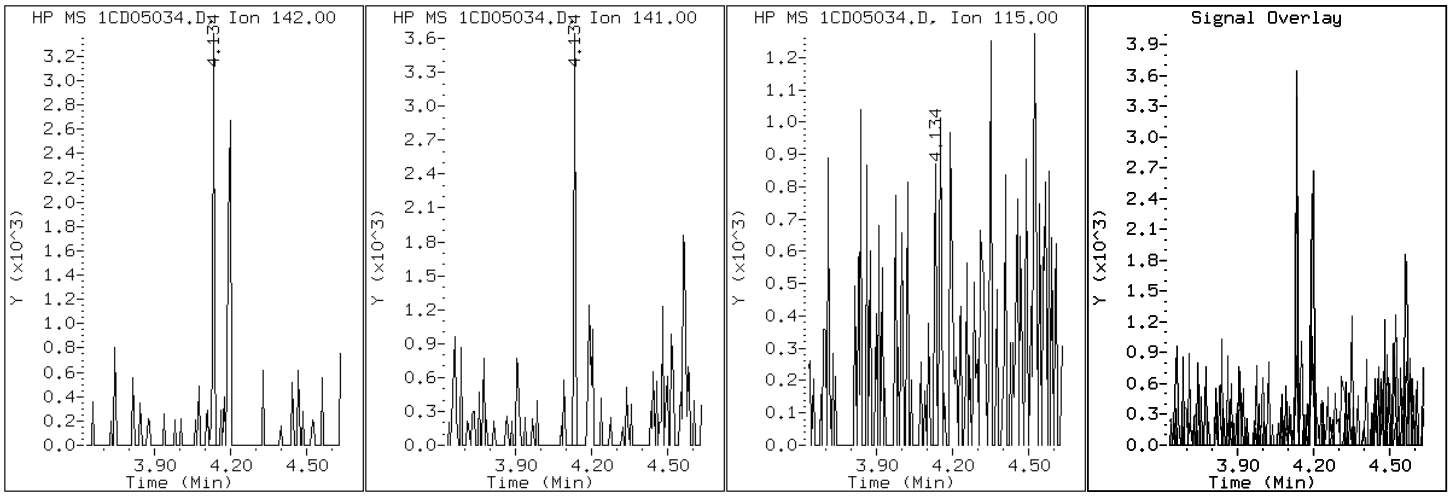
Data File: 1CD05034.D

Date: 05-APR-2013 21:32

Client ID: CV0509AK-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-51-a Operator: SCC

3 2-Methylnaphthalene



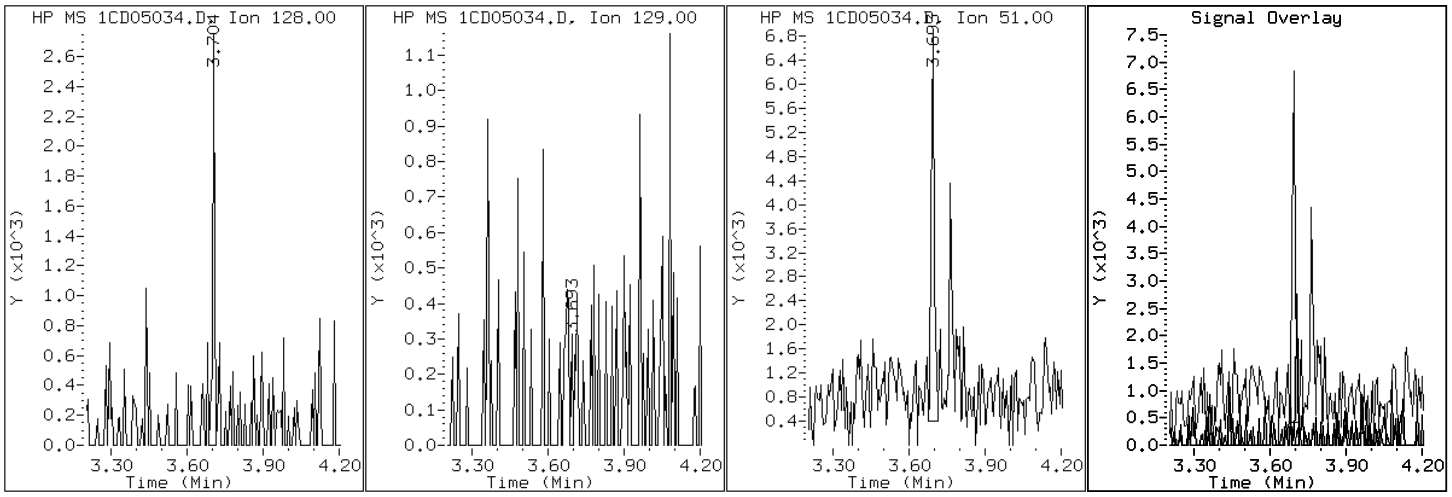
Data File: 1CD05034.D

Date: 05-APR-2013 21:32

Client ID: CV0509AK-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-51-a Operator: SCC

2 Naphthalene



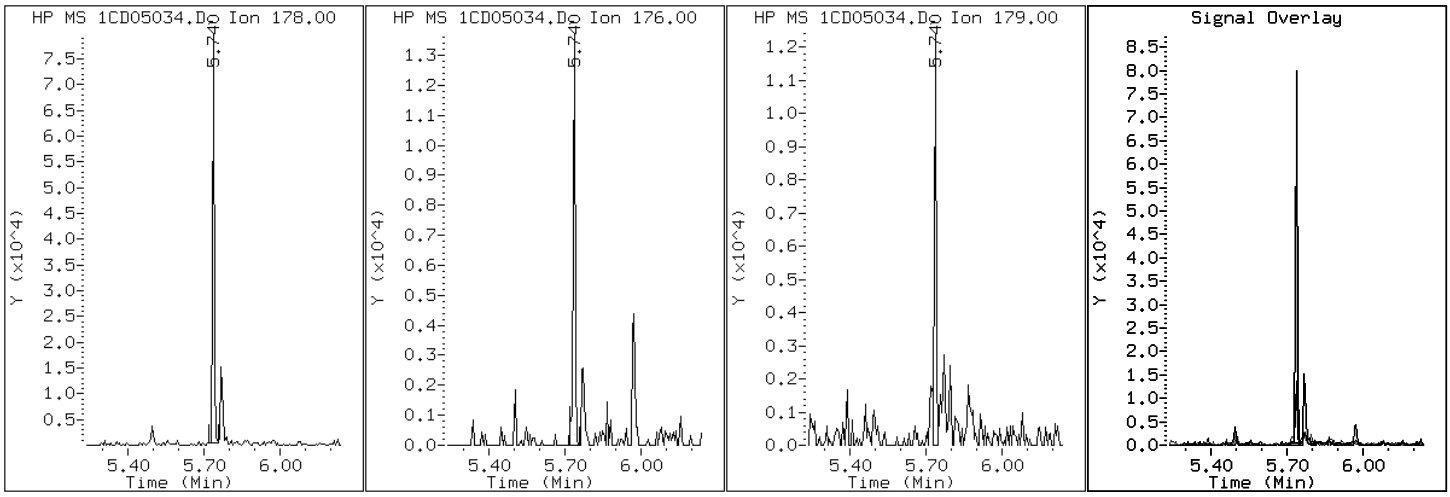
Data File: 1CD05034.D

Date: 05-APR-2013 21:32

Client ID: CV0509AK-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-51-a Operator: SCC

11 Phenanthrene



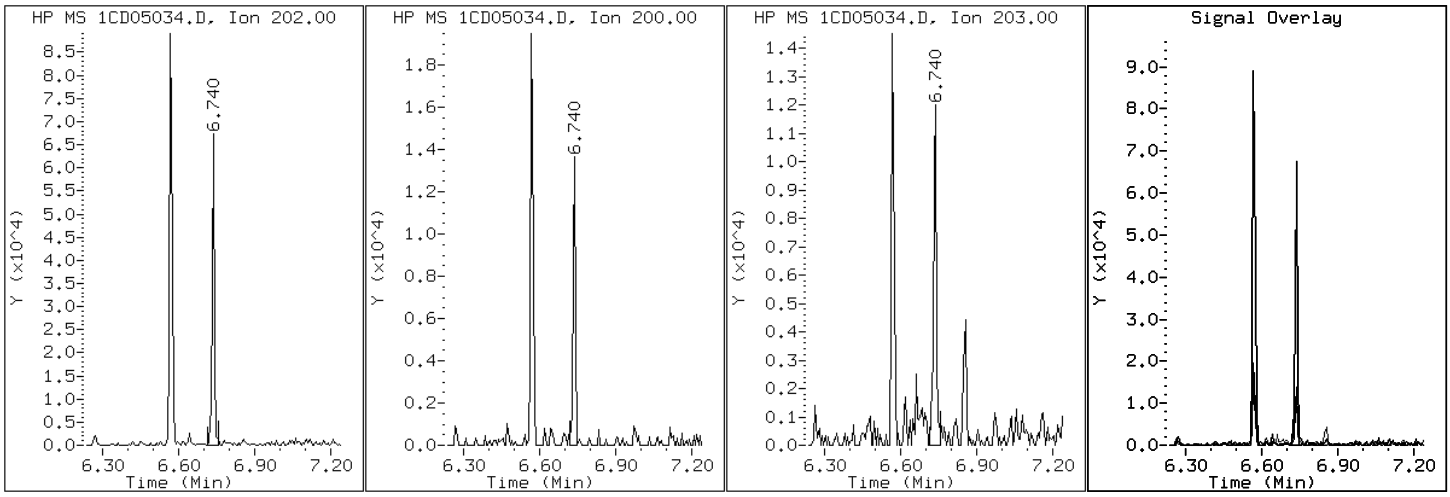
Data File: 1CD05034.D

Date: 05-APR-2013 21:32

Client ID: CV0509AK-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-51-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD05034.D
Inj. Date and Time: 05-APR-2013 21:32
Instrument ID: BSMC5973.i
Client ID: CV0509AK-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

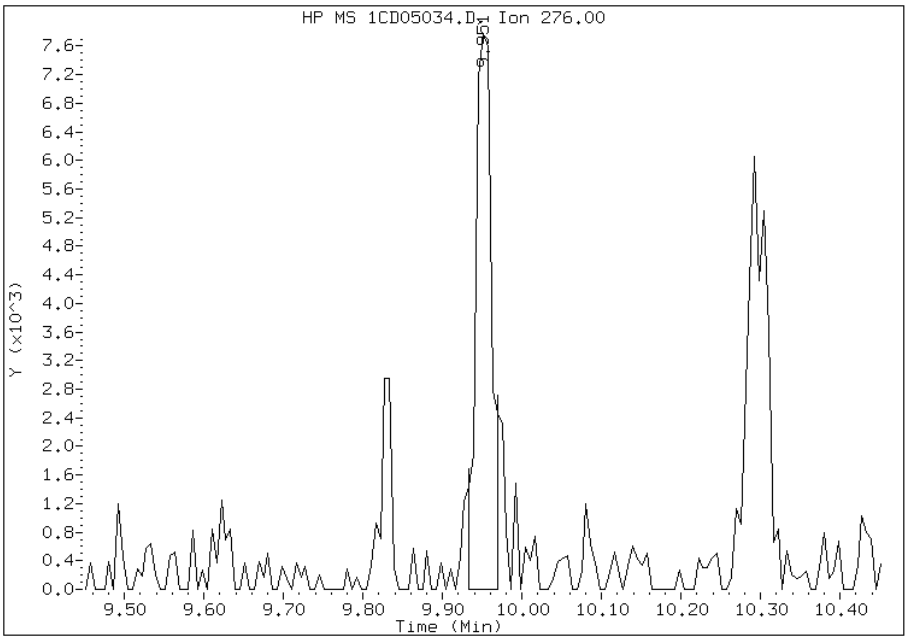
Processing Integration Results

RT: 9.95

Response: 10981

Amount: 1

Conc: 54



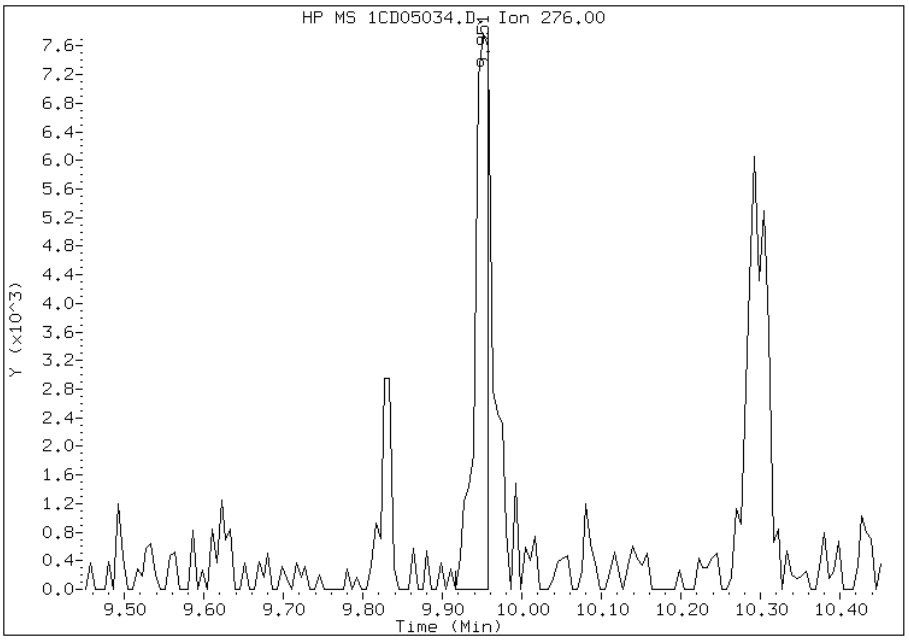
Manual Integration Results

RT: 9.95

Response: 9705

Amount: 0

Conc: 48



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 13:40
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88767-3

SDG No.: 68088767-3

Client Sample ID: CV0509AL-GS | Lab Sample ID: 680-88767-52

Matrix: Solid | Lab File ID: 1CD05035.D

Analysis Method: 8270C LL | Date Collected: 03/26/2013 15:37

Extract. Method: 3546 | Date Extracted: 04/04/2013 10:07

Sample wt/vol: 15.07(g) | Date Analyzed: 04/05/2013 21:50

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

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

% Moisture: 16.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136171 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	480	U	480	96
208-96-8	Acenaphthylene	53	J	190	24
120-12-7	Anthracene	93		40	20
56-55-3	Benzo[a]anthracene	330		38	19
50-32-8	Benzo[a]pyrene	320		50	25
205-99-2	Benzo[b]fluoranthene	470		58	29
191-24-2	Benzo[g,h,i]perylene	230		96	21
207-08-9	Benzo[k]fluoranthene	180		38	17
218-01-9	Chrysene	450		43	22
53-70-3	Dibenz(a,h)anthracene	110		96	20
206-44-0	Fluoranthene	560		96	19
86-73-7	Fluorene	32	J	96	20
193-39-5	Indeno[1,2,3-cd]pyrene	220		96	34
90-12-0	1-Methylnaphthalene	100	J	190	21
91-57-6	2-Methylnaphthalene	140	J	190	34
91-20-3	Naphthalene	89	J	190	21
85-01-8	Phenanthrene	380		38	19
129-00-0	Pyrene	590		96	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	108		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05035.D
Lab Smp Id: 680-88767-A-52-A Client Smp ID: CV0509AL-GS
Inj Date : 05-APR-2013 21:50
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88767-a-52-a
Misc Info : 680-88767-A-52-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m
Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 34
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	15.070	Weight Extracted
M	16.838	% 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	3.692	3.692	(1.000)	525066	40.0000	
* 6 Acenaphthene-d10	164	4.780	4.780	(1.000)	404745	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	750740	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	24344	2.71202	865.5913
* 18 Chrysene-d12	240	7.657	7.662	(1.000)	809007	40.0000	
* 23 Perylene-d12	264	8.821	8.827	(1.000)	780062	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	3779	0.28021	89.4350(Q)
3 2-Methylnaphthalene	142	4.133	4.133	(1.119)	4004	0.43615	139.2062
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	2649	0.32068	102.3524
5 Acenaphthylene	152	4.692	4.692	(0.982)	2779	0.16590	52.9490
9 Fluorene	166	5.110	5.116	(1.069)	1372	0.09920	31.6600(Q)
11 Phenanthrene	178	5.739	5.739	(1.003)	25776	1.17887	376.2582
12 Anthracene	178	5.774	5.774	(1.009)	6445	0.29078	92.8070
13 Carbazole	167	5.880	5.880	(1.028)	2596	0.13671	43.6326(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.568	6.574	(1.148)	42488	1.75954	561.5914
16 Pyrene	202	6.739	6.739	(0.880)	41190	1.83801	586.6354
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	21091	1.03538	330.4610
19 Chrysene	228	7.674	7.680	(1.002)	32609	1.41451	451.4686
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.961)	32586	1.47762	471.6108(M)
21 Benzo(k)fluoranthene	252	8.498	8.509	(0.963)	11861	0.55609	177.4870(M)
22 Benzo(a)pyrene	252	8.768	8.774	(0.994)	20825	1.00302	320.1312
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.962	(1.129)	13399	0.67945	216.8595(M)
25 Dibenzo(a,h)anthracene	278	9.974	9.980	(1.131)	6047	0.33194	105.9461(M)
26 Benzo(g,h,i)perylene	276	10.298	10.303	(1.167)	14743	0.73250	233.7912

QC Flag Legend

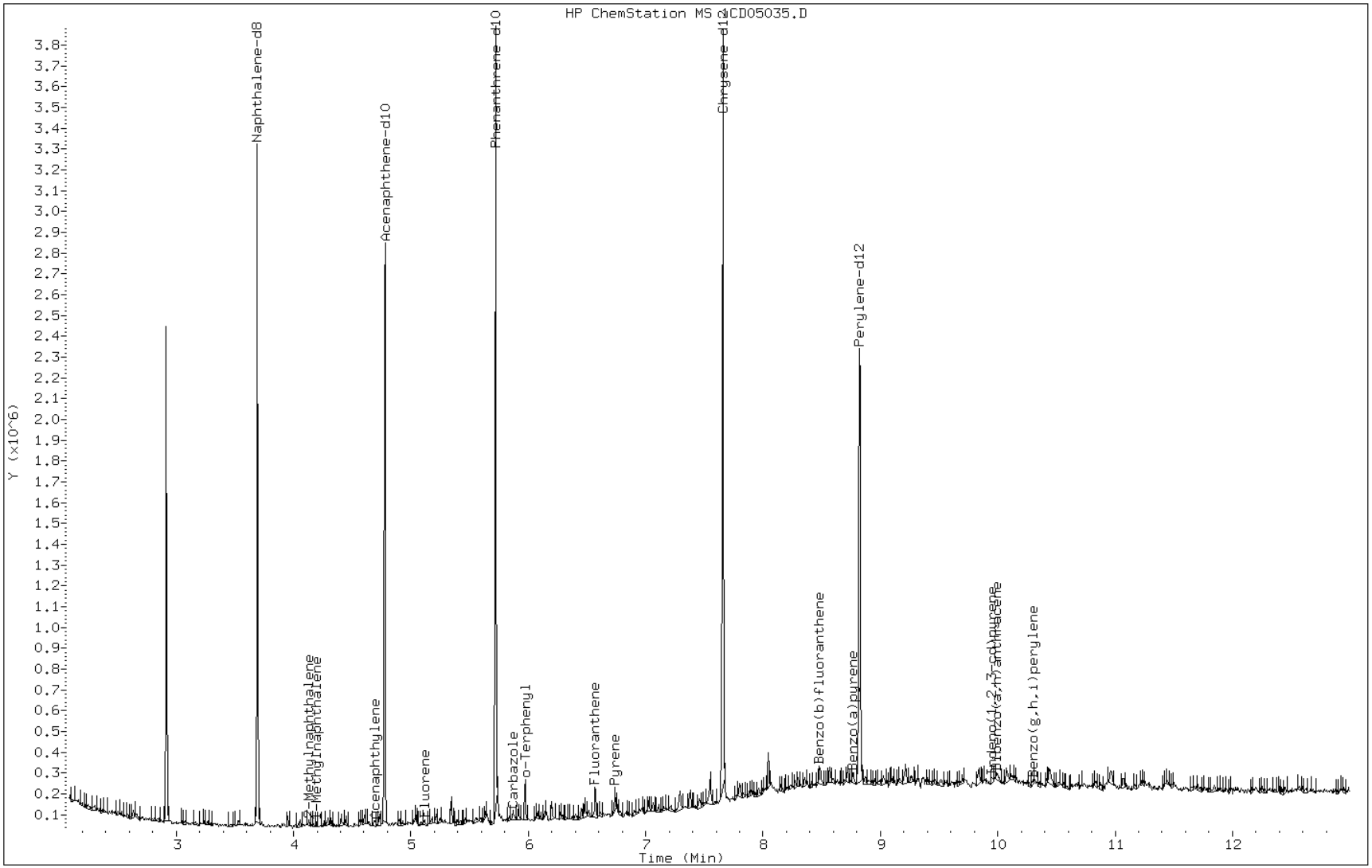
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD05035.D

Date: 05-APR-2013 21:50

Client ID: CV0509AL-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-52-a Operator: SCC



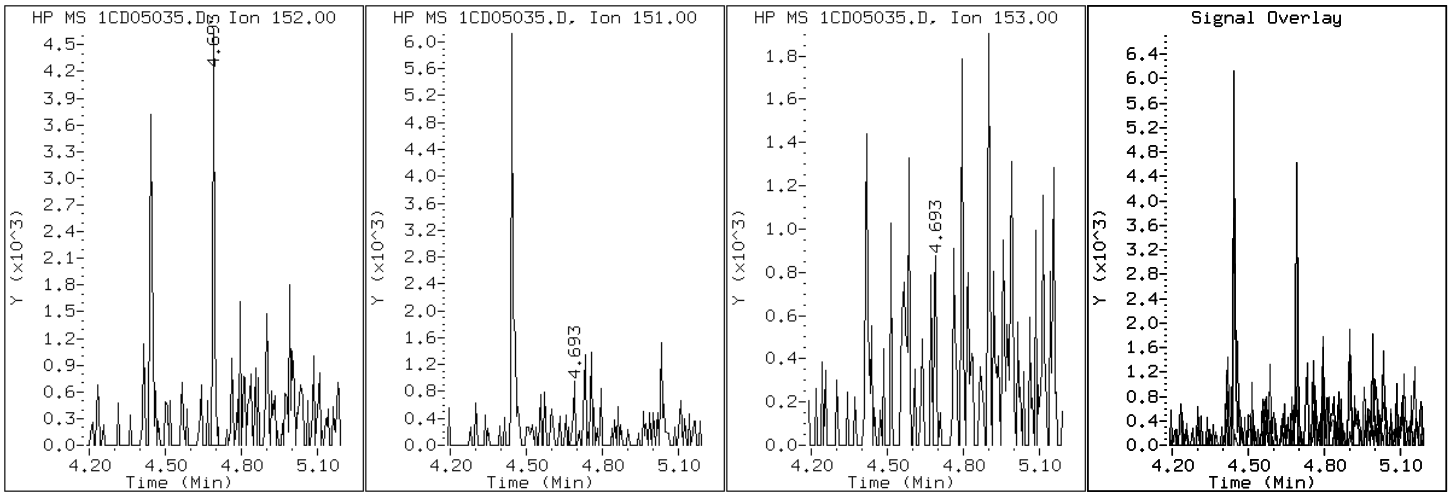
Data File: 1CD05035.D

Date: 05-APR-2013 21:50

Client ID: CV0509AL-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-52-a Operator: SCC

5 Acenaphthylene



Data File: 1CD05035.D

Date: 05-APR-2013 21:50

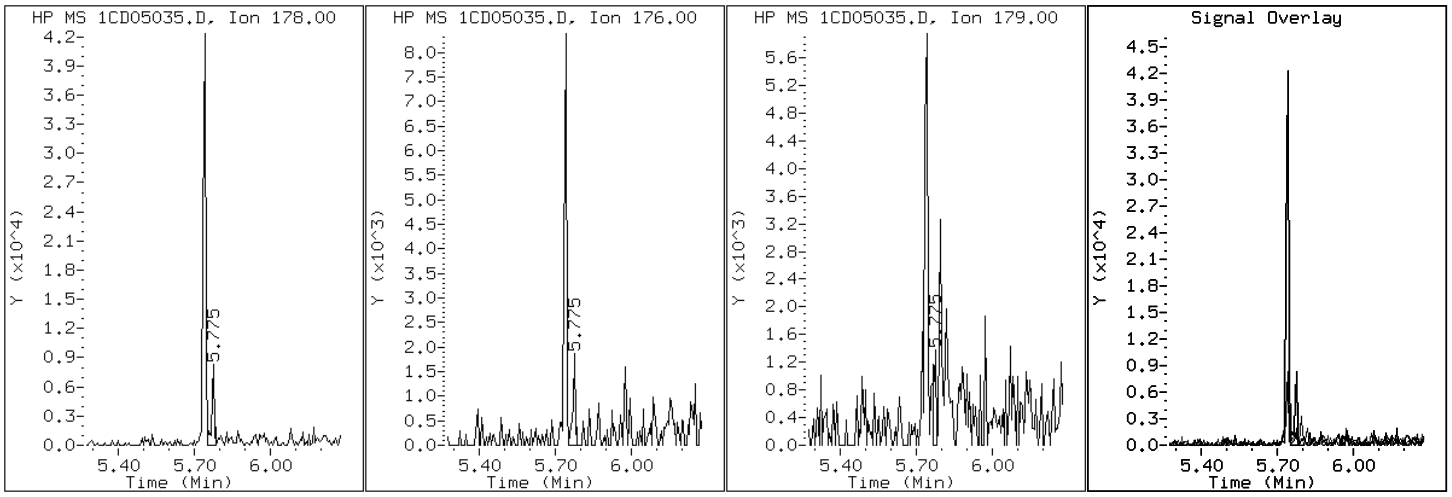
Client ID: CV0509AL-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-52-a

Operator: SCC

12 Anthracene



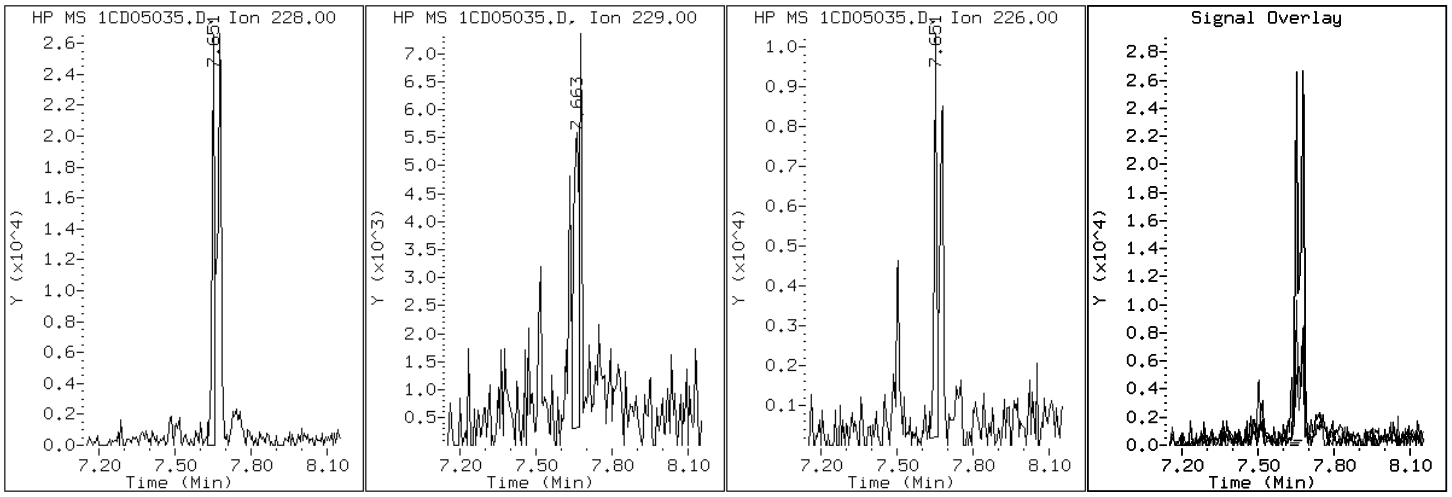
Data File: 1CD05035.D

Date: 05-APR-2013 21:50

Client ID: CV0509AL-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-52-a Operator: SCC

17 Benzo(a)anthracene



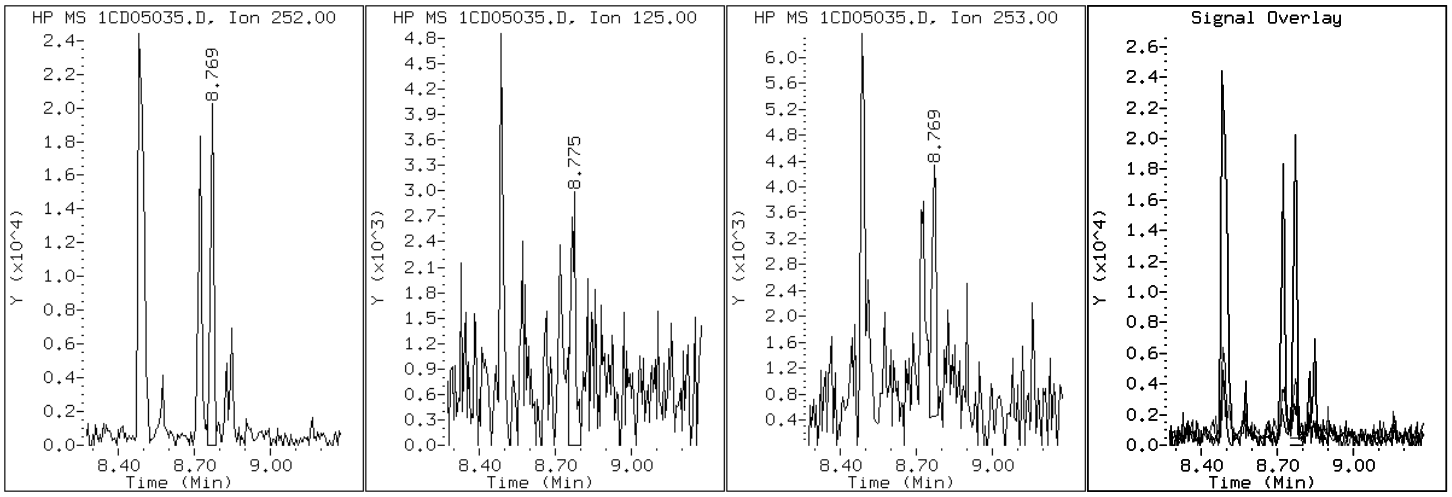
Data File: 1CD05035.D

Date: 05-APR-2013 21:50

Client ID: CV0509AL-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-52-a Operator: SCC

22 Benzo(a)pyrene



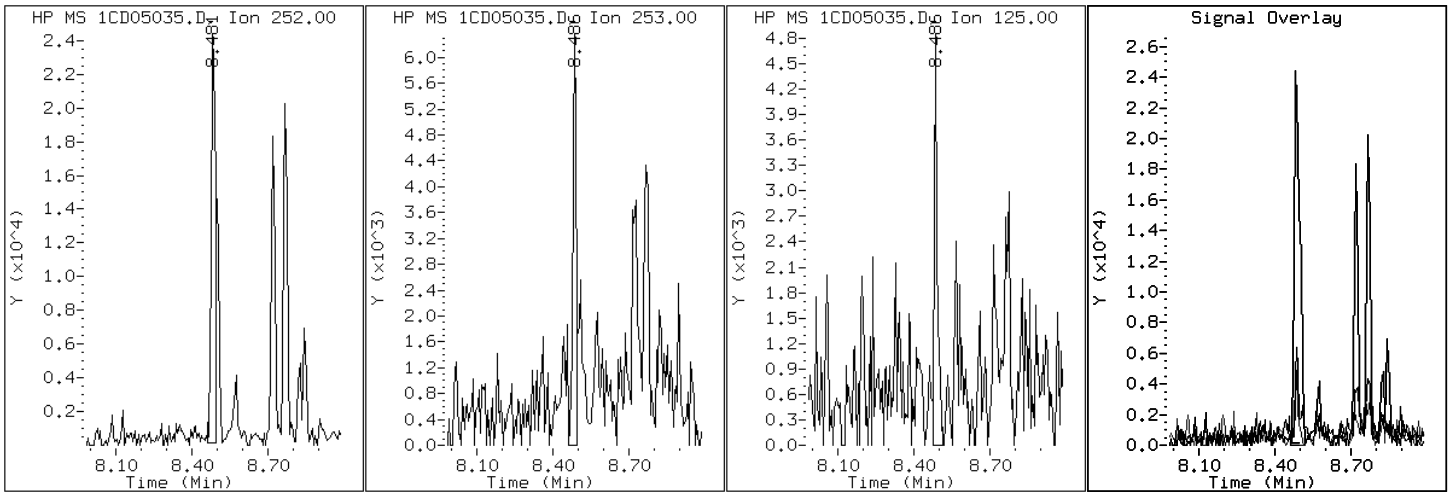
Data File: 1CD05035.D

Date: 05-APR-2013 21:50

Client ID: CV0509AL-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-52-a Operator: SCC

20 Benzo(b)fluoranthene



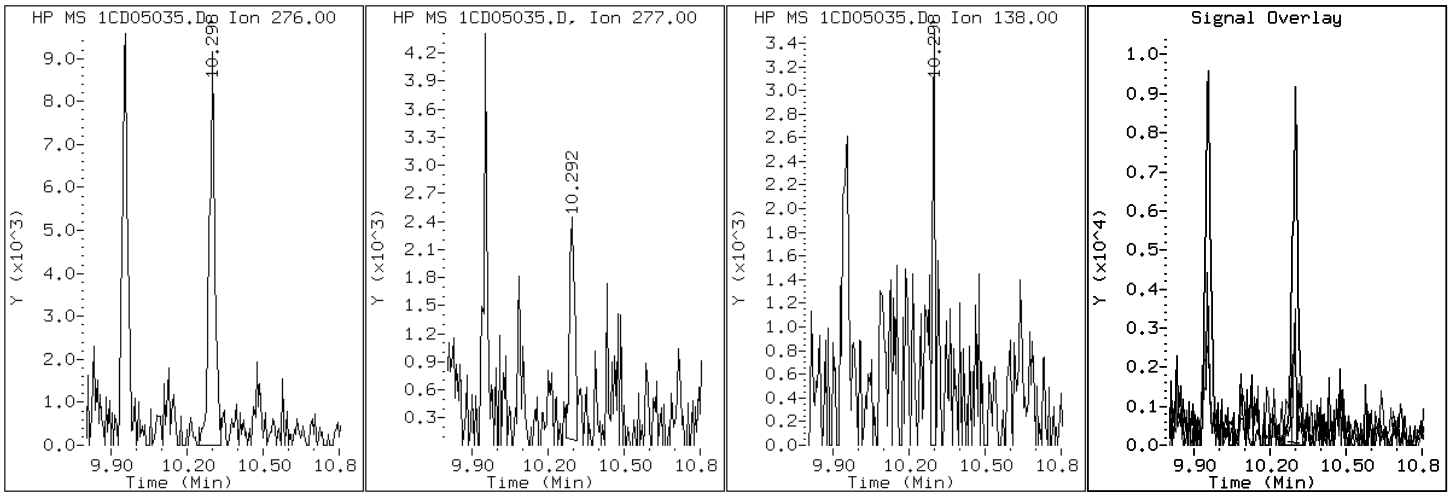
Data File: 1CD05035.D

Date: 05-APR-2013 21:50

Client ID: CV0509AL-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-52-a Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD05035.D

Date: 05-APR-2013 21:50

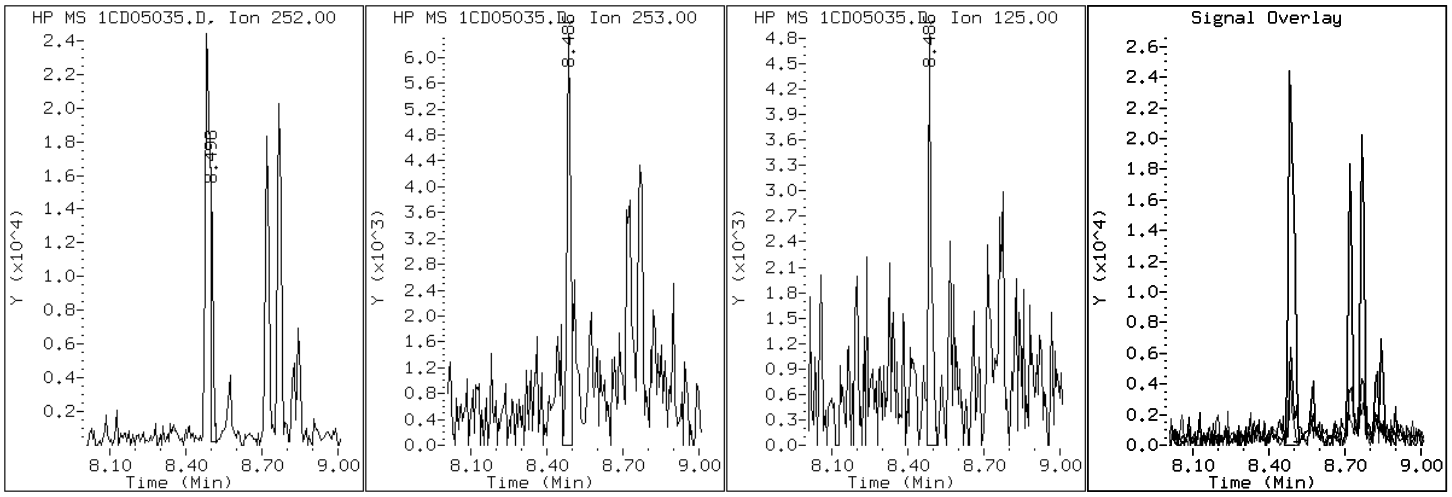
Client ID: CV0509AL-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-52-a

Operator: SCC

21 Benzo(k)fluoranthene



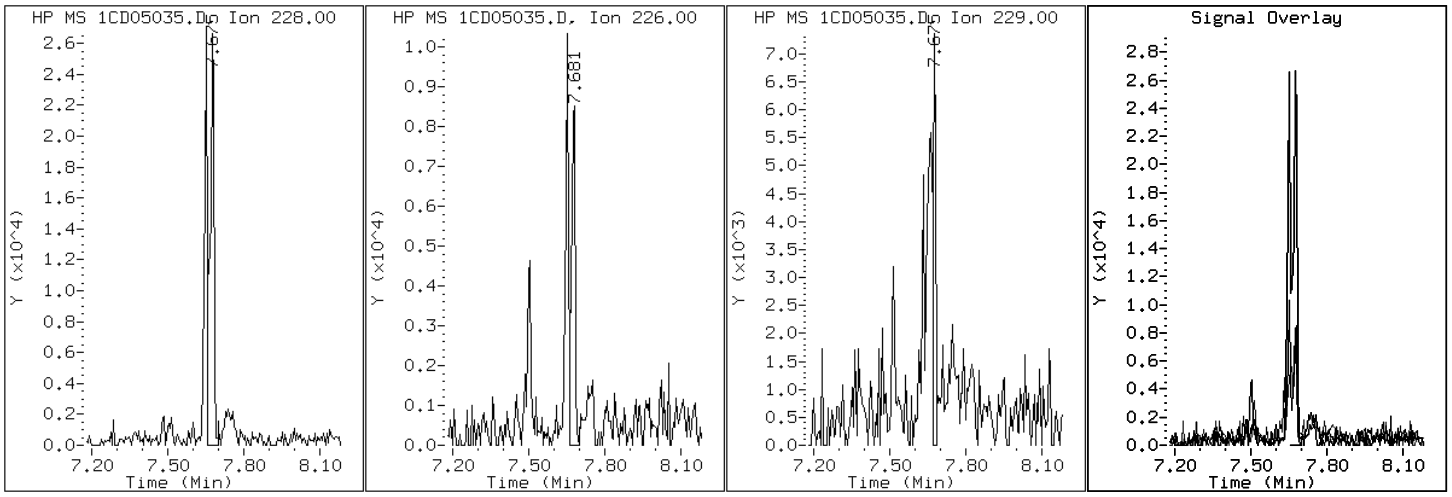
Data File: 1CD05035.D

Date: 05-APR-2013 21:50

Client ID: CV0509AL-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-52-a Operator: SCC

19 Chrysene



Data File: 1CD05035.D

Date: 05-APR-2013 21:50

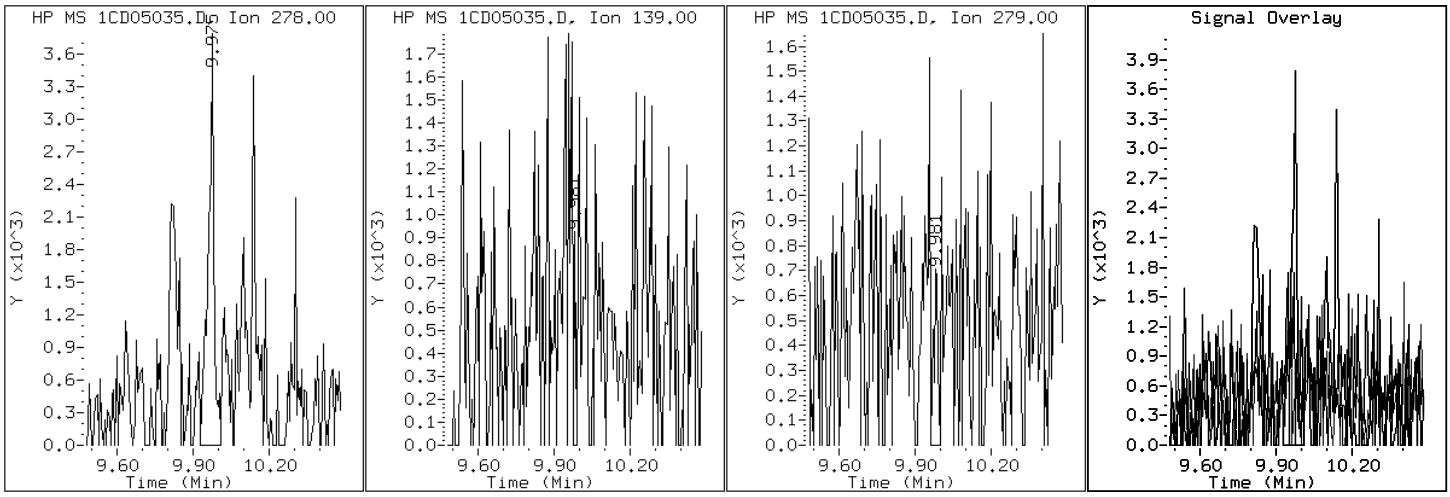
Client ID: CV0509AL-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-52-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD05035.D

Date: 05-APR-2013 21:50

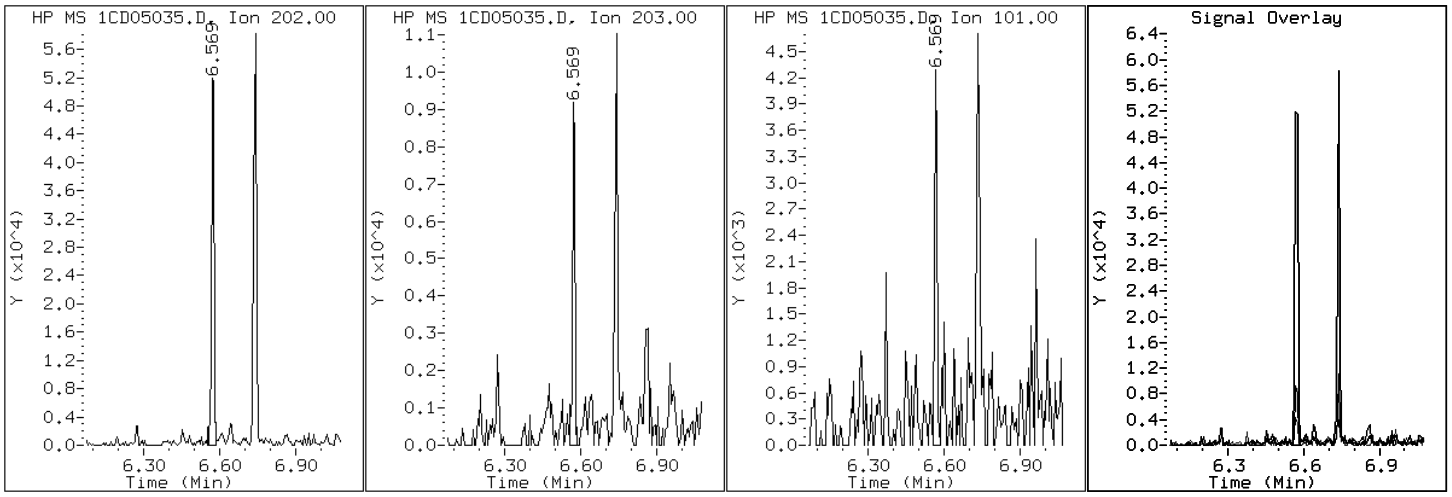
Client ID: CV0509AL-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-52-a

Operator: SCC

15 Fluoranthene



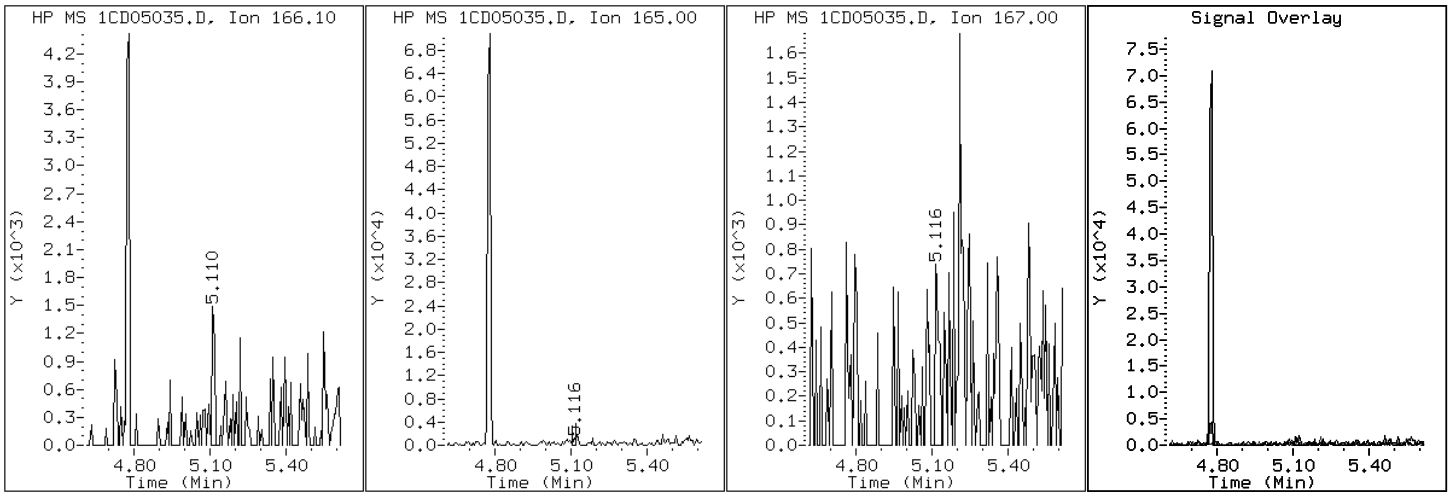
Data File: 1CD05035.D

Date: 05-APR-2013 21:50

Client ID: CV0509AL-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-52-a Operator: SCC

9 Fluorene



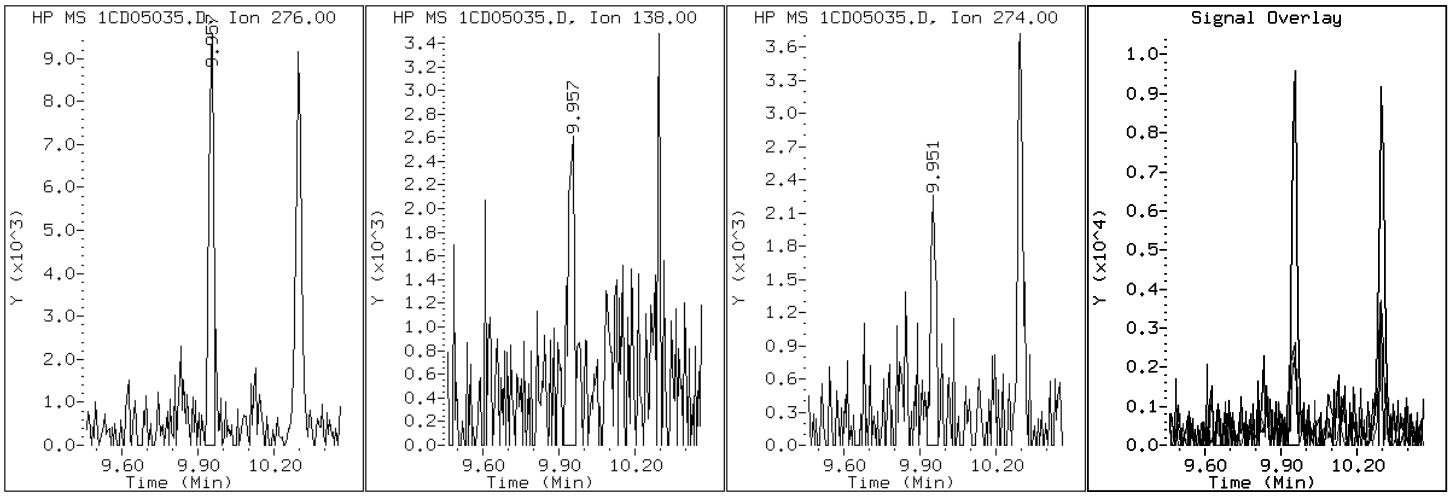
Data File: 1CD05035.D

Date: 05-APR-2013 21:50

Client ID: CV0509AL-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-52-a Operator: SCC

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



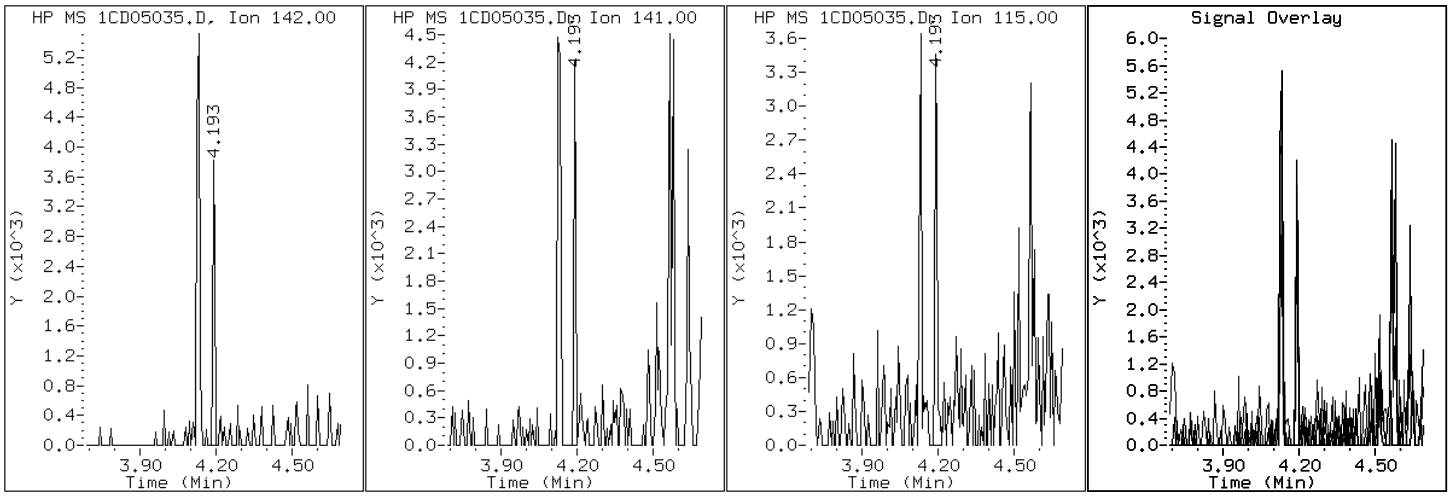
Data File: 1CD05035.D

Date: 05-APR-2013 21:50

Client ID: CV0509AL-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-52-a Operator: SCC

4 1-Methylnaphthalene



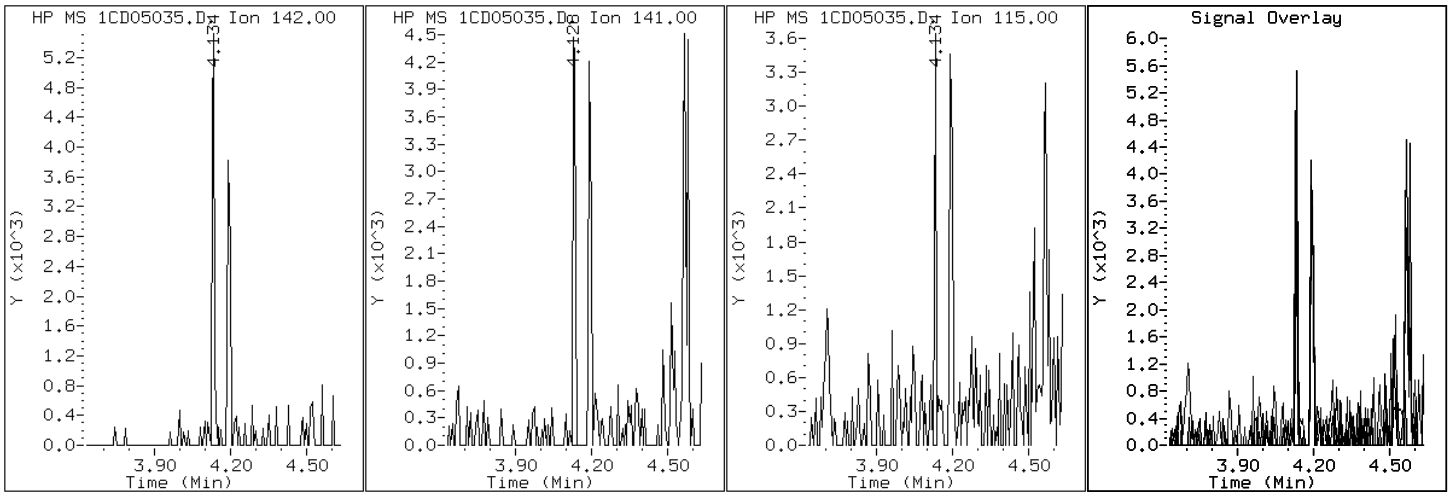
Data File: 1CD05035.D

Date: 05-APR-2013 21:50

Client ID: CV0509AL-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-52-a Operator: SCC

3 2-Methylnaphthalene



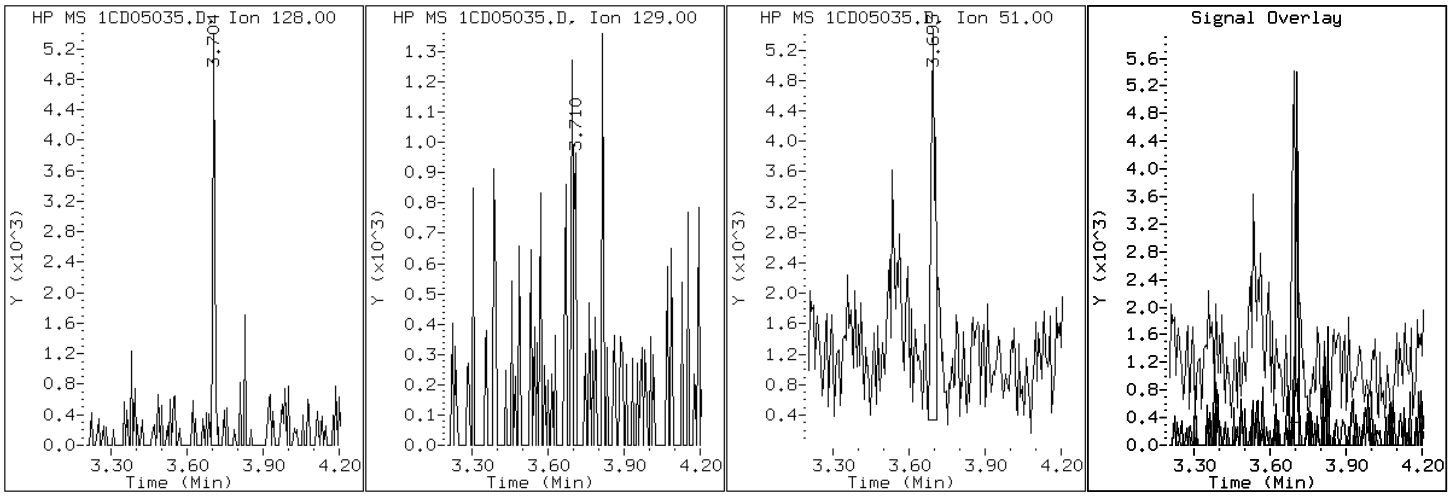
Data File: 1CD05035.D

Date: 05-APR-2013 21:50

Client ID: CV0509AL-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-52-a Operator: SCC

2 Naphthalene



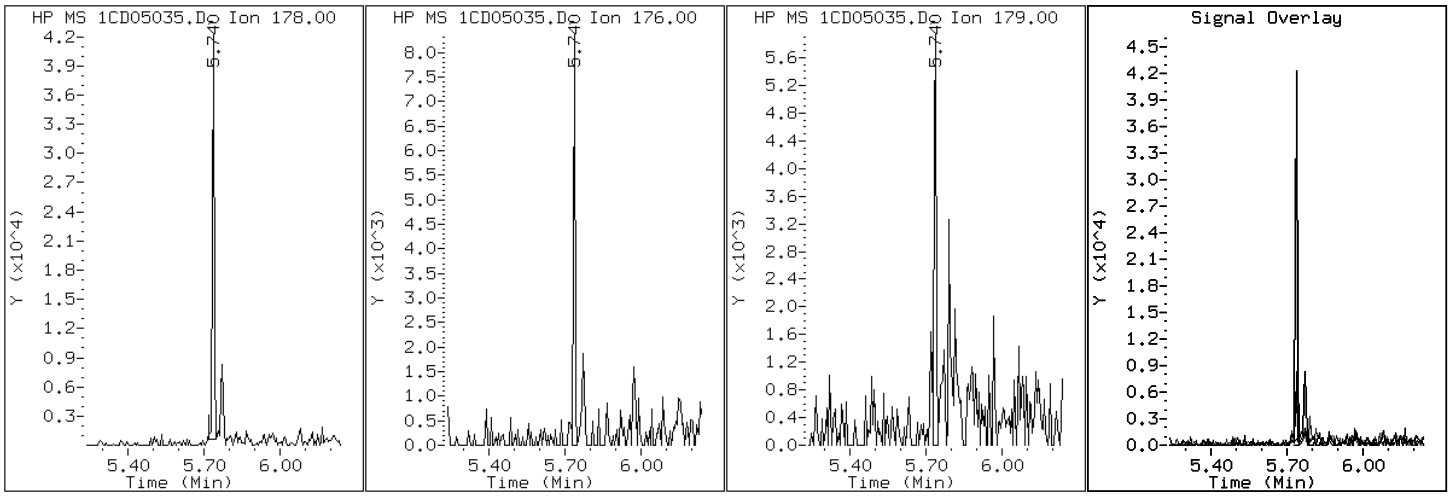
Data File: 1CD05035.D

Date: 05-APR-2013 21:50

Client ID: CV0509AL-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-52-a Operator: SCC

11 Phenanthrene



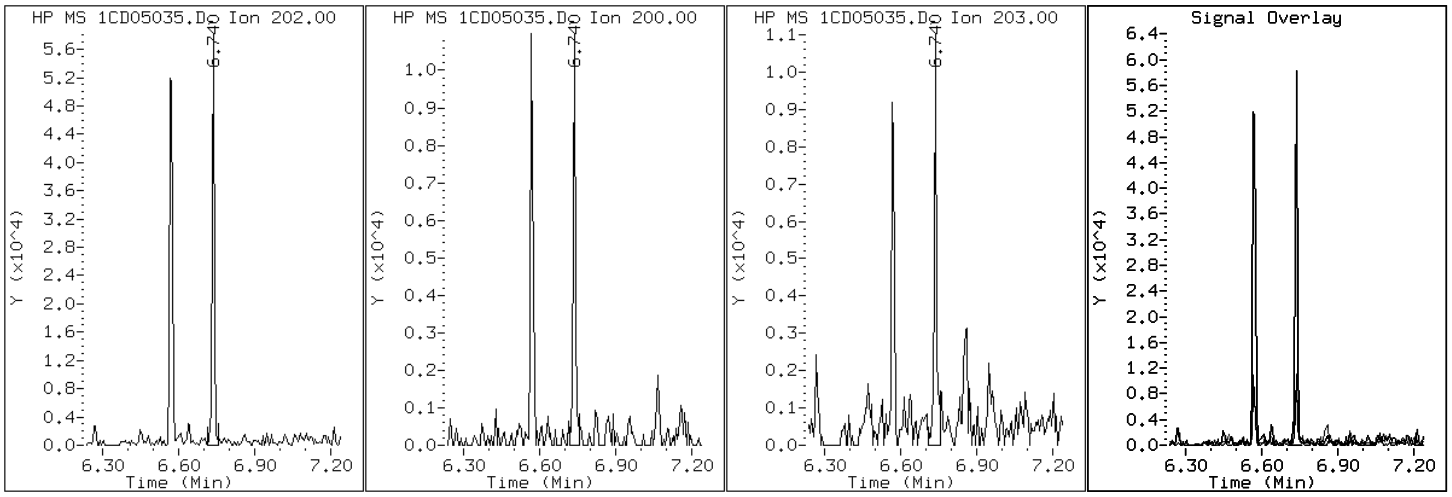
Data File: 1CD05035.D

Date: 05-APR-2013 21:50

Client ID: CV0509AL-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-52-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD05035.D
Inj. Date and Time: 05-APR-2013 21:50
Instrument ID: BSMC5973.i
Client ID: CV0509AL-GS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/09/2013

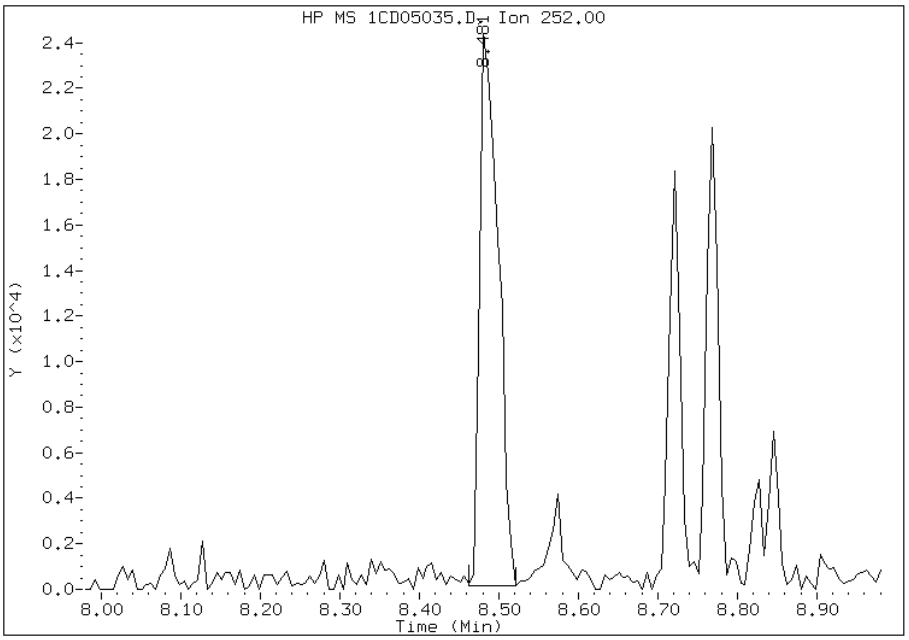
Processing Integration Results

RT: 8.48

Response: 39158

Amount: 2

Conc: 567



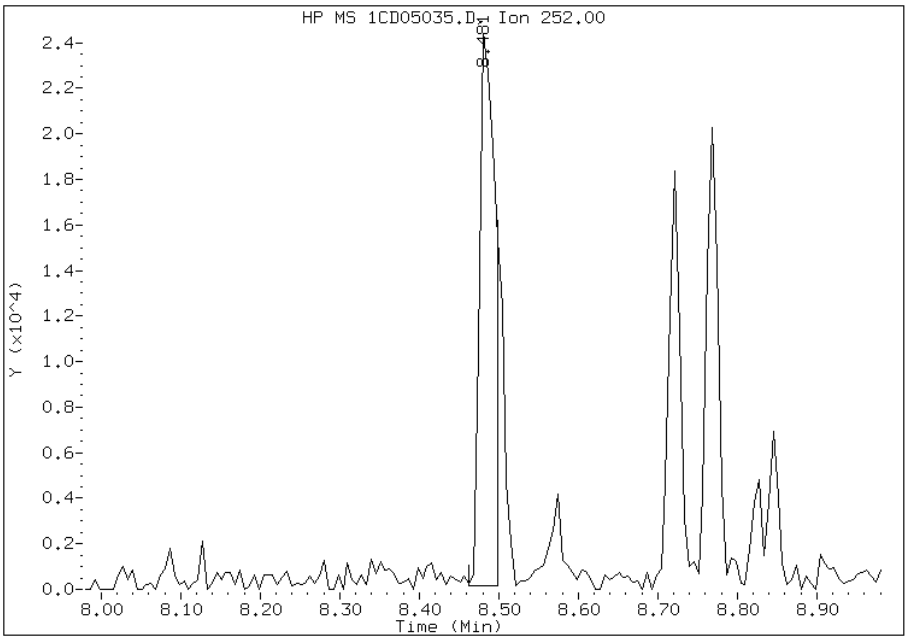
Manual Integration Results

RT: 8.48

Response: 32586

Amount: 1

Conc: 472



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 13:41
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD05035.D
Inj. Date and Time: 05-APR-2013 21:50
Instrument ID: BSMC5973.i
Client ID: CV0509AL-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/09/2013

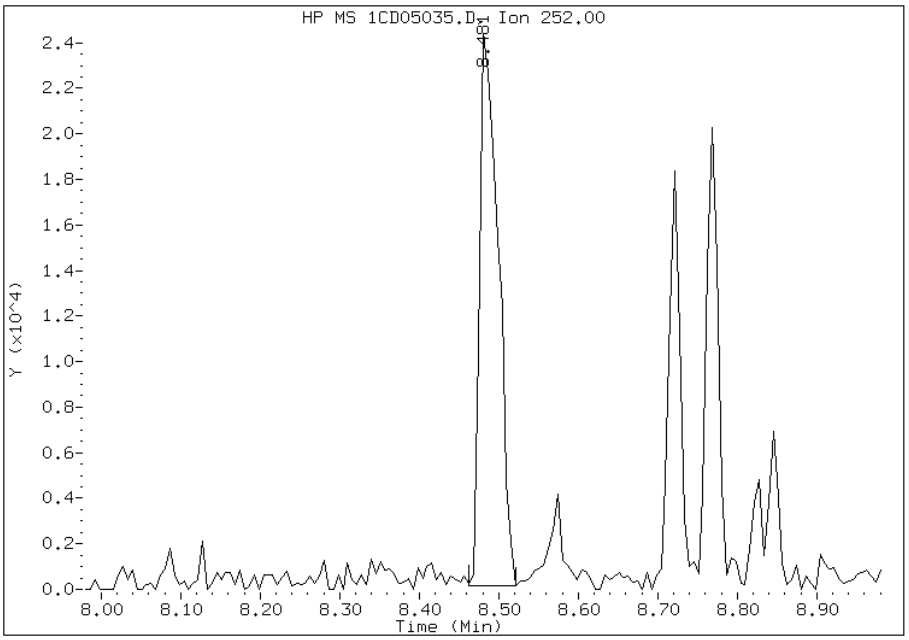
Processing Integration Results

RT: 8.48

Response: 39158

Amount: 2

Conc: 586



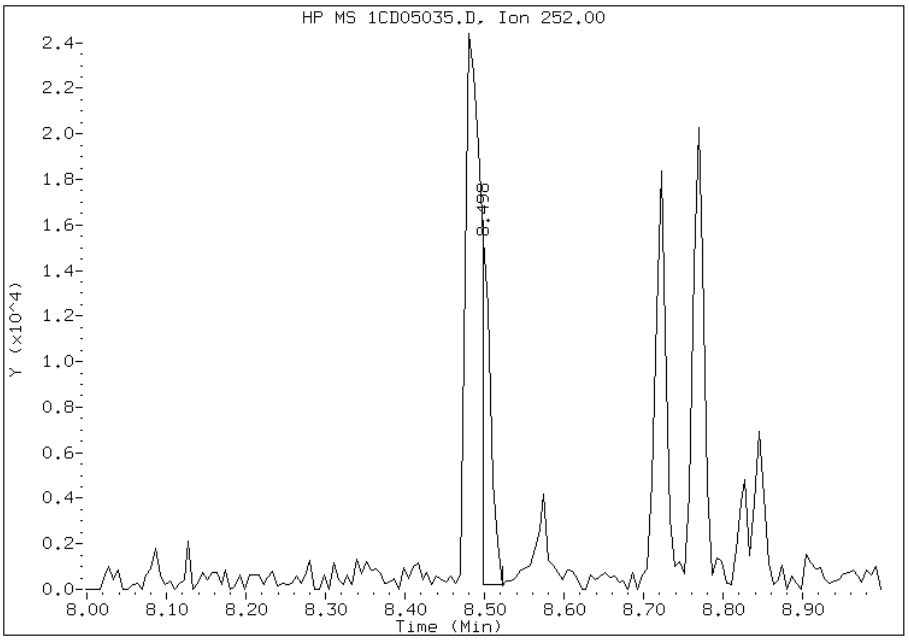
Manual Integration Results

RT: 8.50

Response: 11861

Amount: 1

Conc: 177



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 13:41
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD05035.D
Inj. Date and Time: 05-APR-2013 21:50
Instrument ID: BSMC5973.i
Client ID: CV0509AL-GS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/09/2013

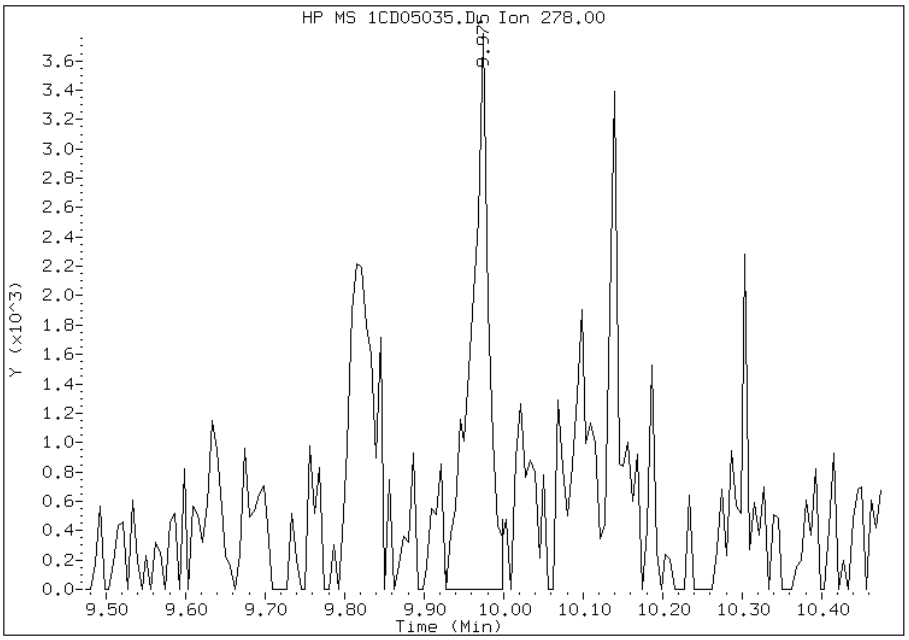
Processing Integration Results

RT: 9.97

Response: 5874

Amount: 0

Conc: 103



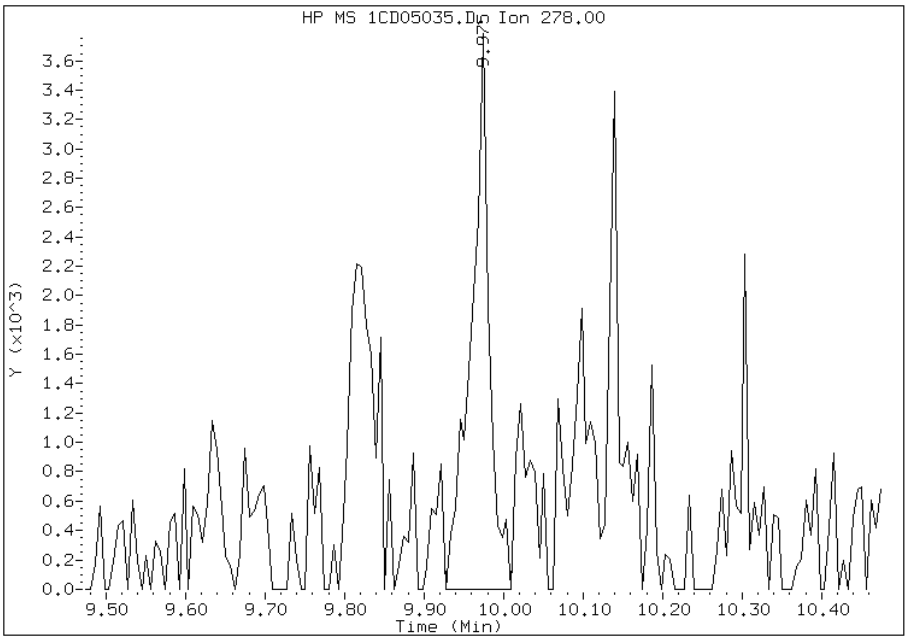
Manual Integration Results

RT: 9.97

Response: 6047

Amount: 0

Conc: 106



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 13:41
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD05035.D
Inj. Date and Time: 05-APR-2013 21:50
Instrument ID: BSMC5973.i
Client ID: CV0509AL-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

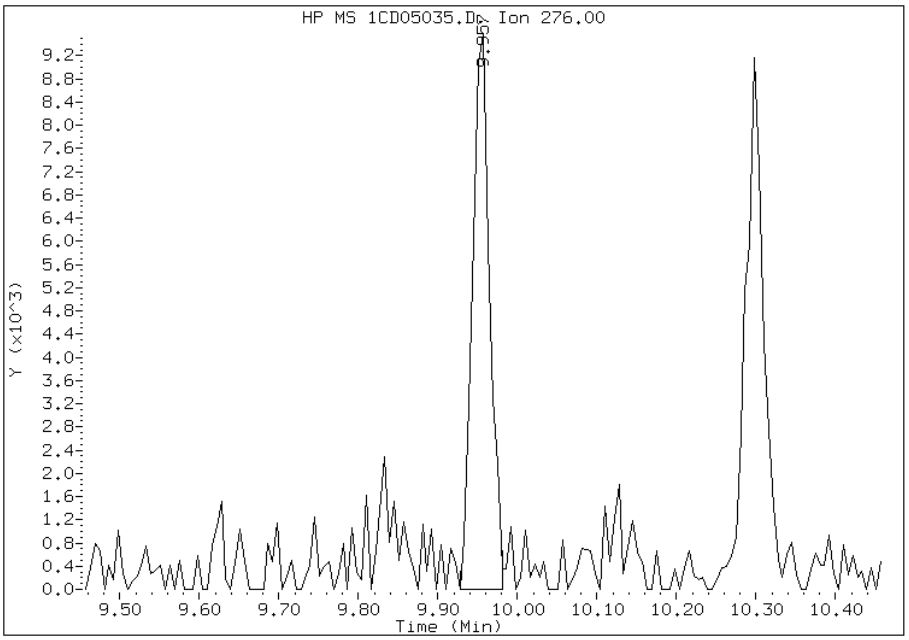
Processing Integration Results

RT: 9.96

Response: 14288

Amount: 1

Conc: 231



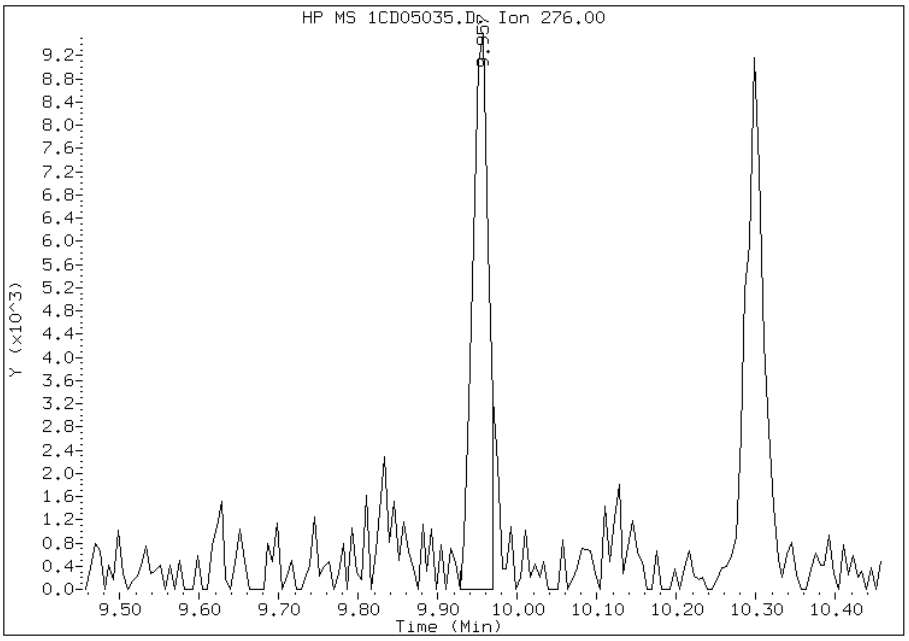
Manual Integration Results

RT: 9.96

Response: 13399

Amount: 1

Conc: 217



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 13:41
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88767-3

SDG No.: 68088767-3

Client Sample ID: CV0509AM-GS | Lab Sample ID: 680-88767-53

Matrix: Solid | Lab File ID: 1CD05036.D

Analysis Method: 8270C LL | Date Collected: 03/26/2013 15:39

Extract. Method: 3546 | Date Extracted: 04/04/2013 10:07

Sample wt/vol: 15.12(g) | Date Analyzed: 04/05/2013 22:09

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

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

% Moisture: 17.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136171 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	48	U	48	6.0
120-12-7	Anthracene	12		10	5.0
56-55-3	Benzo[a]anthracene	79		9.6	4.7
50-32-8	Benzo[a]pyrene	67		12	6.2
205-99-2	Benzo[b]fluoranthene	100		15	7.3
191-24-2	Benzo[g,h,i]perylene	52		24	5.3
207-08-9	Benzo[k]fluoranthene	45		9.6	4.3
218-01-9	Chrysene	78		11	5.4
53-70-3	Dibenz(a,h)anthracene	23	J	24	4.9
206-44-0	Fluoranthene	120		24	4.8
86-73-7	Fluorene	6.7	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	48		24	8.5
90-12-0	1-Methylnaphthalene	20	J	48	5.3
91-57-6	2-Methylnaphthalene	35	J	48	8.5
91-20-3	Naphthalene	26	J	48	5.3
85-01-8	Phenanthrene	63		9.6	4.7
129-00-0	Pyrene	93		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\1C040513.b\1CD05036.D
Lab Smp Id: 680-88767-A-53-A Client Smp ID: CV0509AM-GS
Inj Date : 05-APR-2013 22:09
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88767-a-53-a
Misc Info : 680-88767-A-53-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m
Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 35
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	17.406	% 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	3.692	3.692	(1.000)	514001	40.0000	
* 6 Acenaphthene-d10	164	4.780	4.780	(1.000)	389768	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	750148	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	61661	5.76131	461.3373
* 18 Chrysene-d12	240	7.657	7.662	(1.000)	841754	40.0000	
* 23 Perylene-d12	264	8.827	8.827	(1.000)	804949	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	4366	0.33071	26.4814(Q)
3 2-Methylnaphthalene	142	4.133	4.133	(1.119)	3904	0.43441	34.7857
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	2017	0.24943	19.9732
9 Fluorene	166	5.116	5.116	(1.070)	1107	0.08311	6.6551(Q)
11 Phenanthrene	178	5.739	5.739	(1.003)	17136	0.78434	62.8057
12 Anthracene	178	5.769	5.774	(1.008)	3333	0.15049	12.0507
13 Carbazole	167	5.874	5.880	(1.027)	2508	0.13218	10.5840(Q)
15 Fluoranthene	202	6.574	6.574	(1.149)	35440	1.46882	117.6162

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.739	6.739	(0.880)	27187	1.16596	93.3644
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	20898	0.99246	79.4715
19 Chrysene	228	7.680	7.680	(1.003)	23307	0.97168	77.8073
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	28640	1.25854	100.7774
21 Benzo(k)fluoranthene	252	8.504	8.509	(0.963)	12249	0.55653	44.5639(Q)
22 Benzo(a)pyrene	252	8.768	8.774	(0.993)	17857	0.83347	66.7404
24 Indeno(1,2,3-cd)pyrene	276	9.951	9.962	(1.127)	12116	0.59540	47.6763(M)
25 Dibenzo(a,h)anthracene	278	9.980	9.980	(1.131)	5302	0.28205	22.5851(M)
26 Benzo(g,h,i)perylene	276	10.298	10.303	(1.167)	13554	0.65260	52.2573

QC Flag Legend

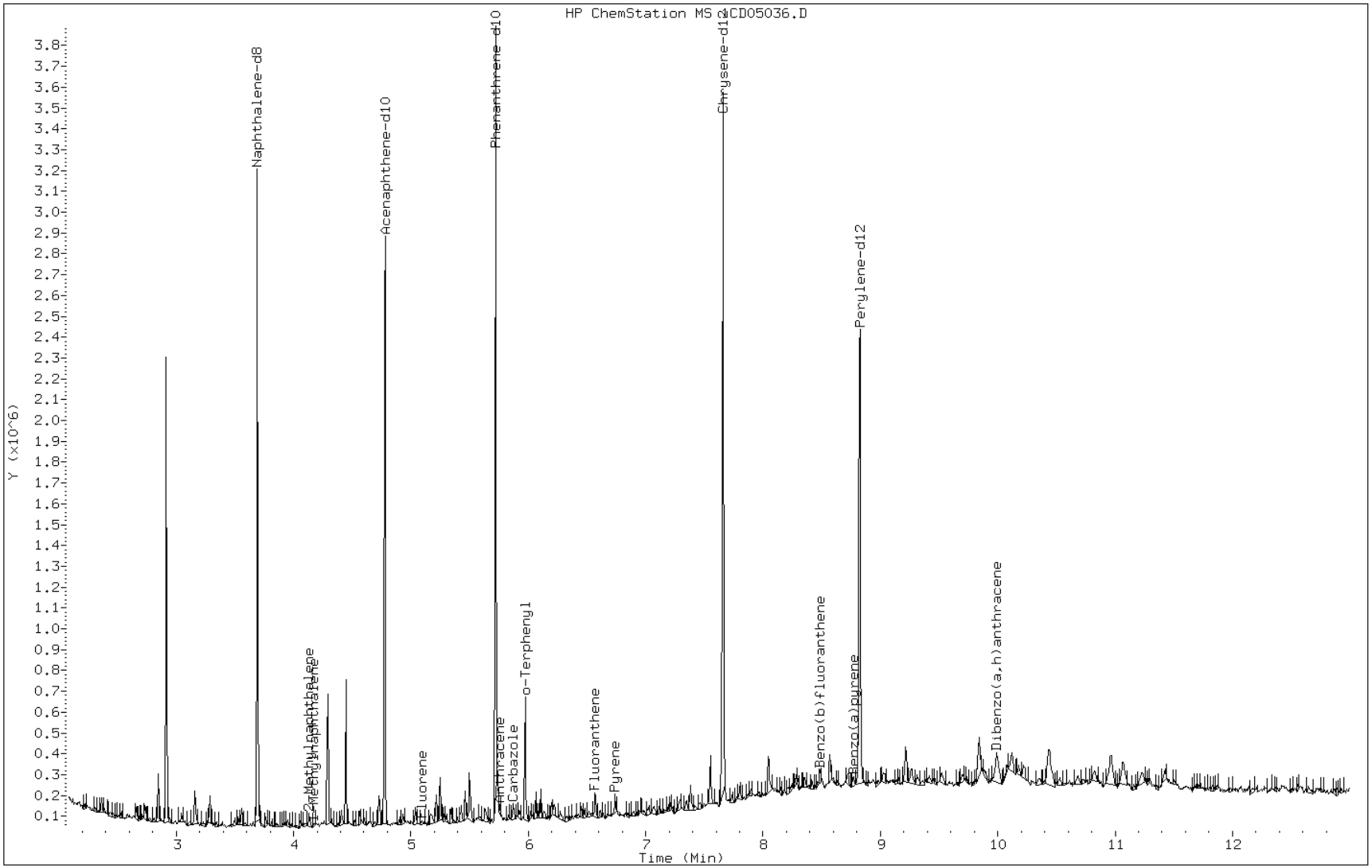
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD05036.D

Date: 05-APR-2013 22:09

Client ID: CV0509AM-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-53-a Operator: SCC



Data File: 1CD05036.D

Date: 05-APR-2013 22:09

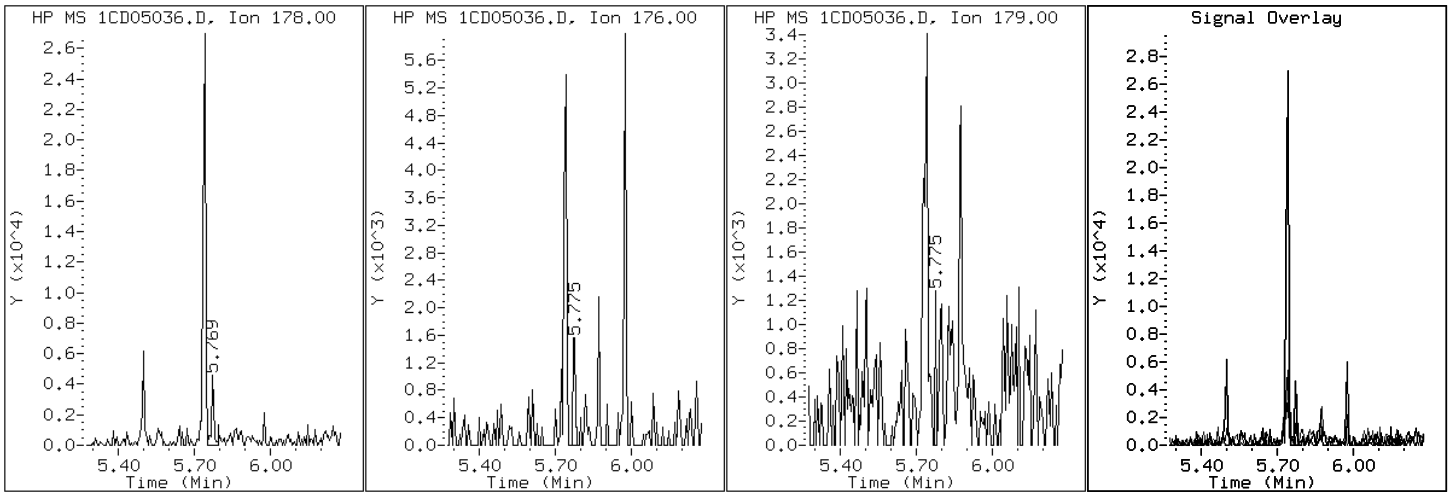
Client ID: CV0509AM-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-53-a

Operator: SCC

12 Anthracene



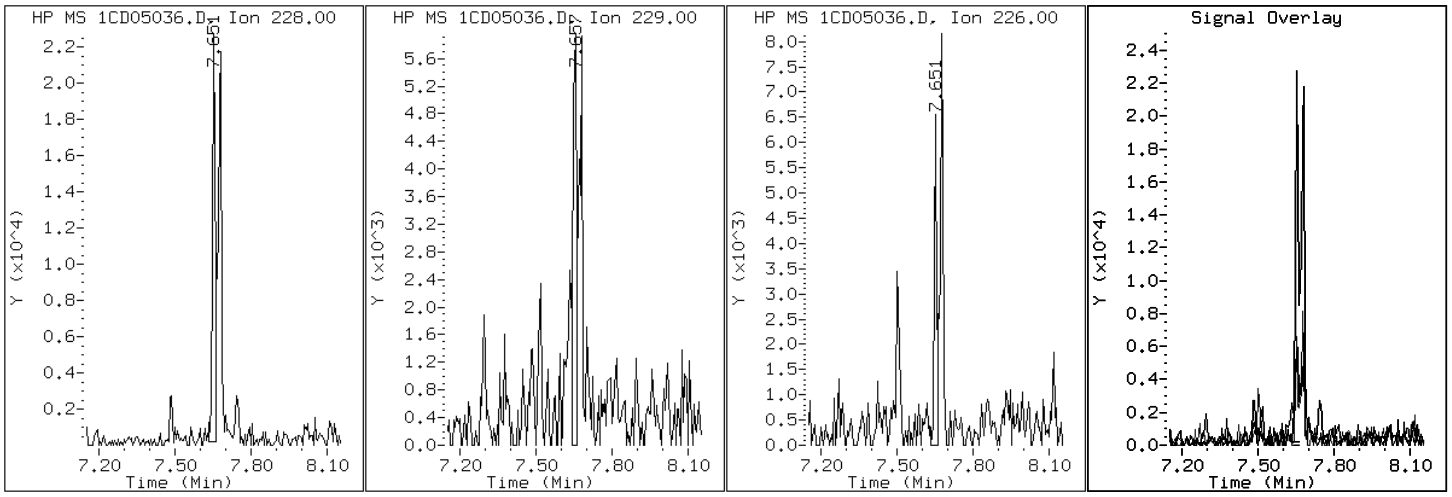
Data File: 1CD05036.D

Date: 05-APR-2013 22:09

Client ID: CV0509AM-GS | Instrument: BSMC5973.i

Sample Info: 680-88767-a-53-a | Operator: SCC

17 Benzo(a)anthracene



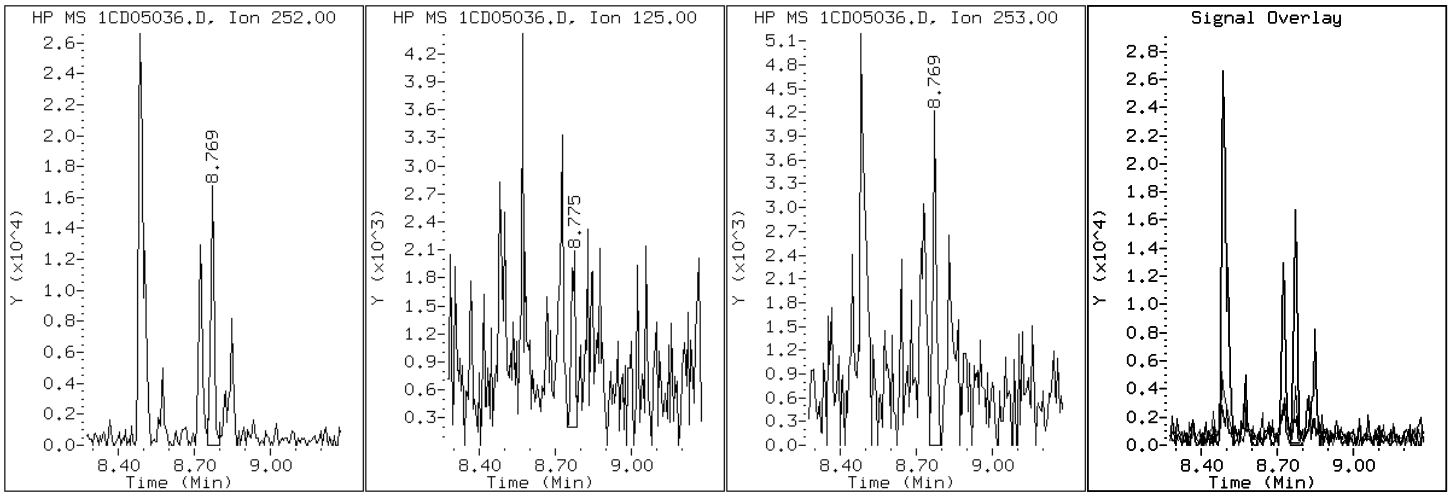
Data File: 1CD05036.D

Date: 05-APR-2013 22:09

Client ID: CV0509AM-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-53-a Operator: SCC

22 Benzo(a)pyrene



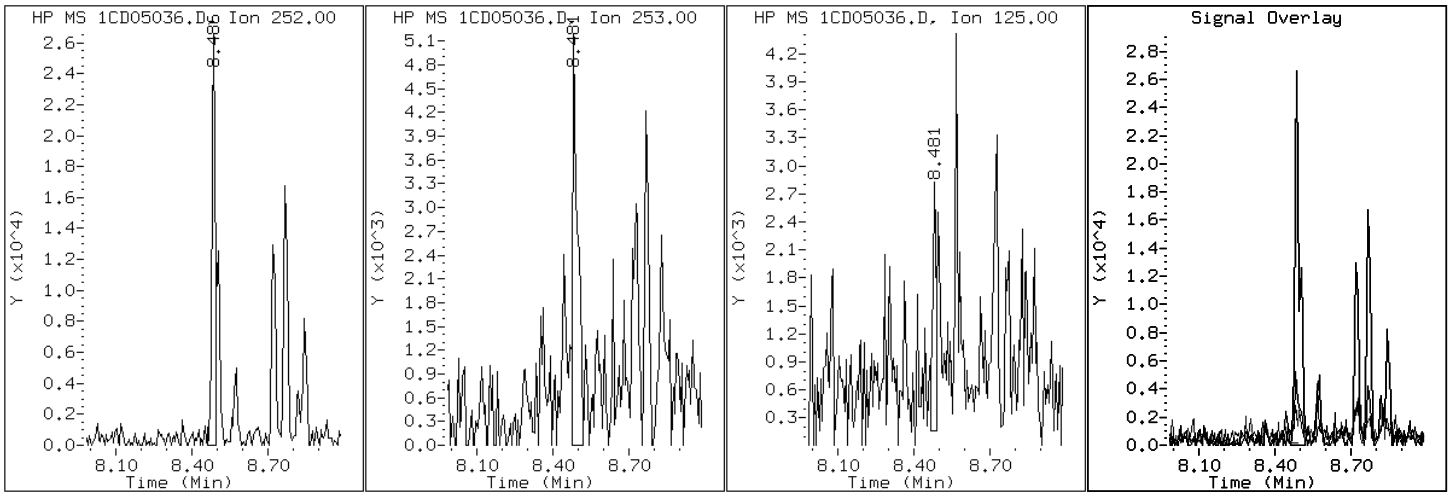
Data File: 1CD05036.D

Date: 05-APR-2013 22:09

Client ID: CV0509AM-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-53-a Operator: SCC

20 Benzo(b)fluoranthene



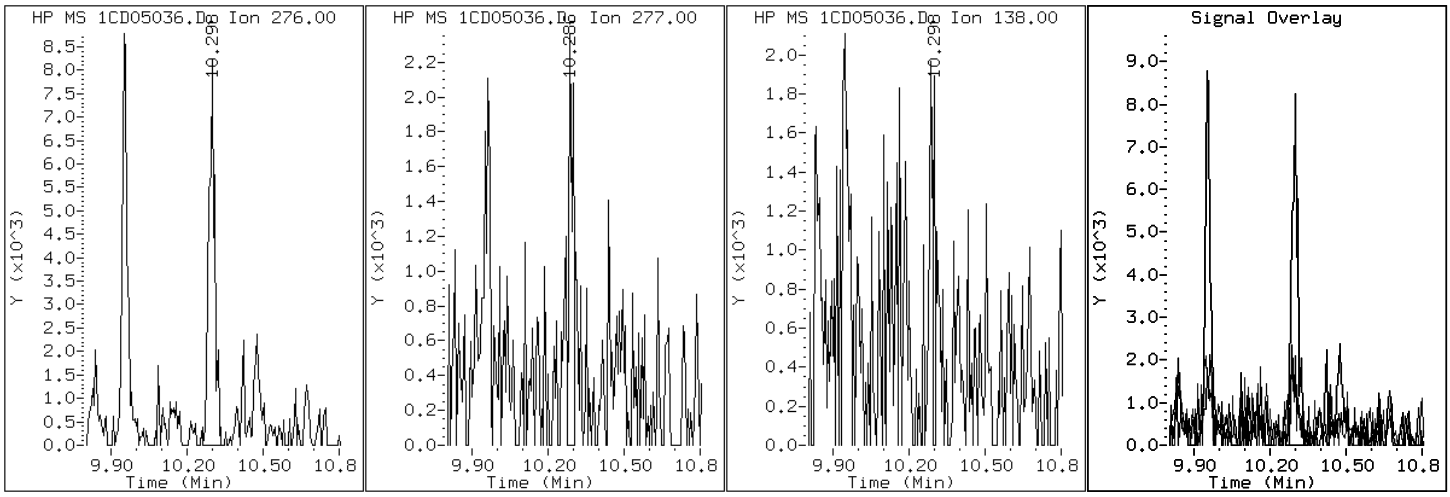
Data File: 1CD05036.D

Date: 05-APR-2013 22:09

Client ID: CV0509AM-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-53-a Operator: SCC

26 Benzo(g,h,i)perylene



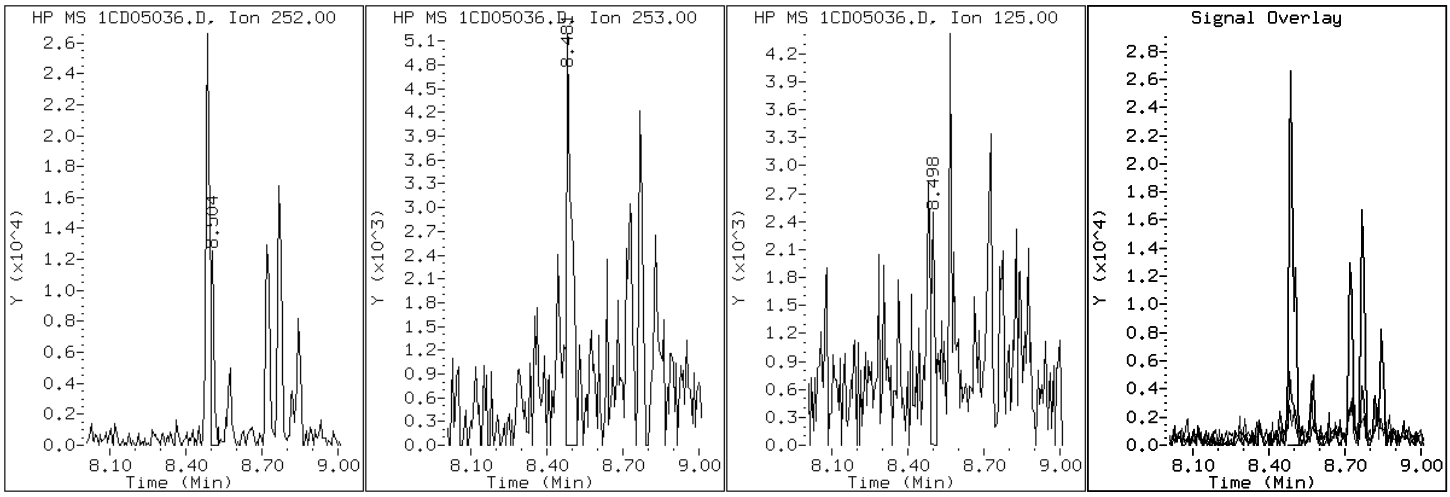
Data File: 1CD05036.D

Date: 05-APR-2013 22:09

Client ID: CV0509AM-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-53-a Operator: SCC

21 Benzo(k)fluoranthene



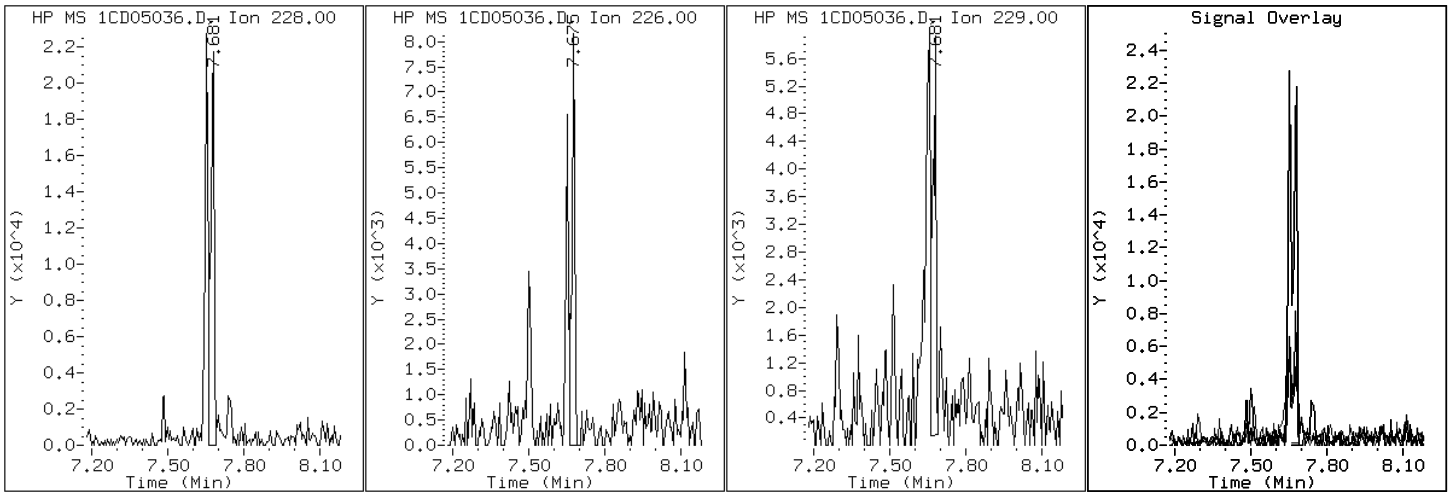
Data File: 1CD05036.D

Date: 05-APR-2013 22:09

Client ID: CV0509AM-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-53-a Operator: SCC

19 Chrysene



Data File: 1CD05036.D

Date: 05-APR-2013 22:09

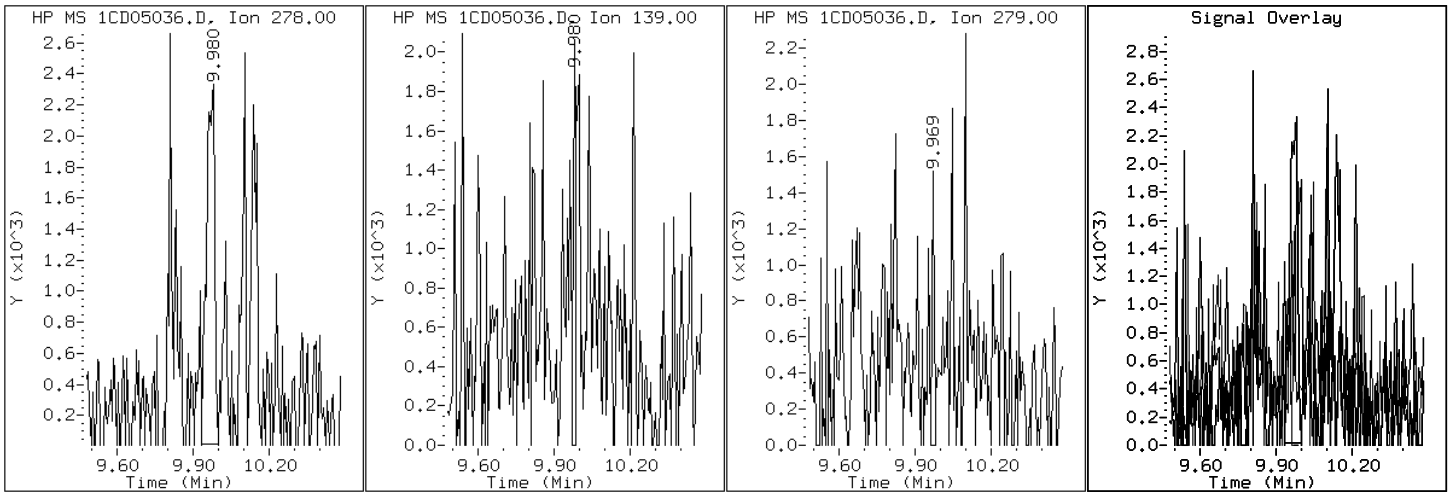
Client ID: CV0509AM-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-53-a

Operator: SCC

25 Dibenzo(a,h)anthracene



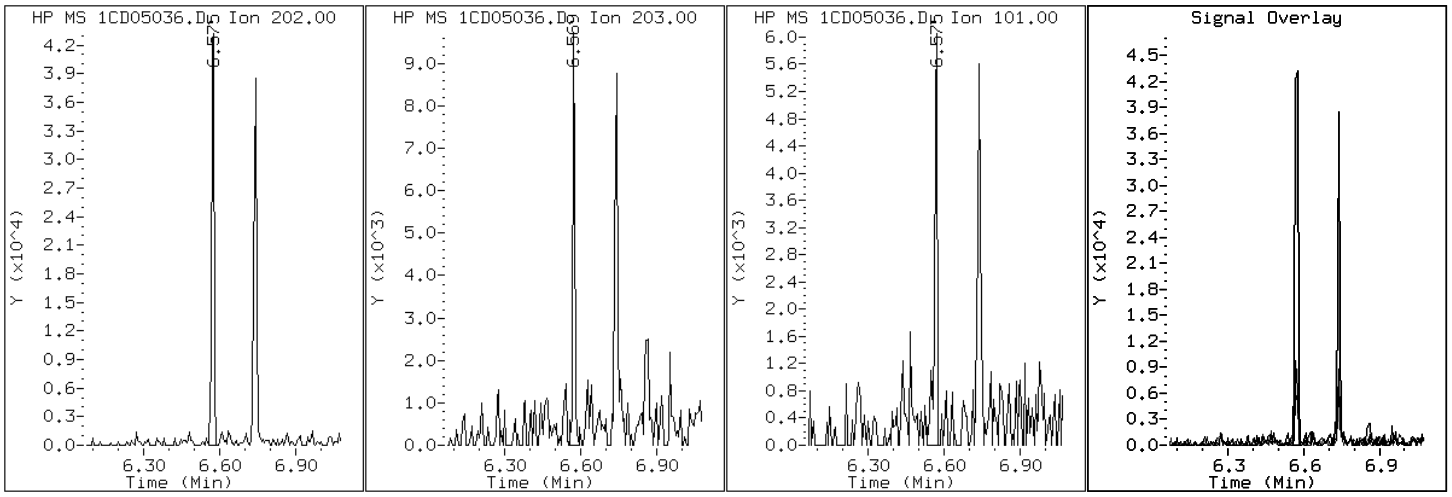
Data File: 1CD05036.D

Date: 05-APR-2013 22:09

Client ID: CV0509AM-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-53-a Operator: SCC

15 Fluoranthene



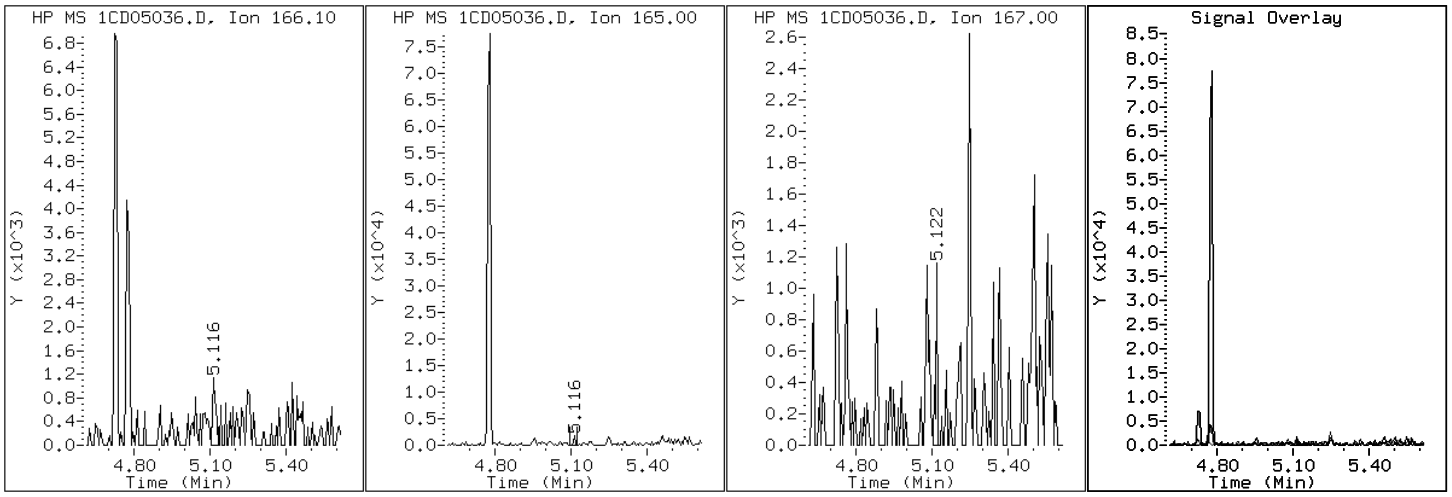
Data File: 1CD05036.D

Date: 05-APR-2013 22:09

Client ID: CV0509AM-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-53-a Operator: SCC

9 Fluorene



Data File: 1CD05036.D

Date: 05-APR-2013 22:09

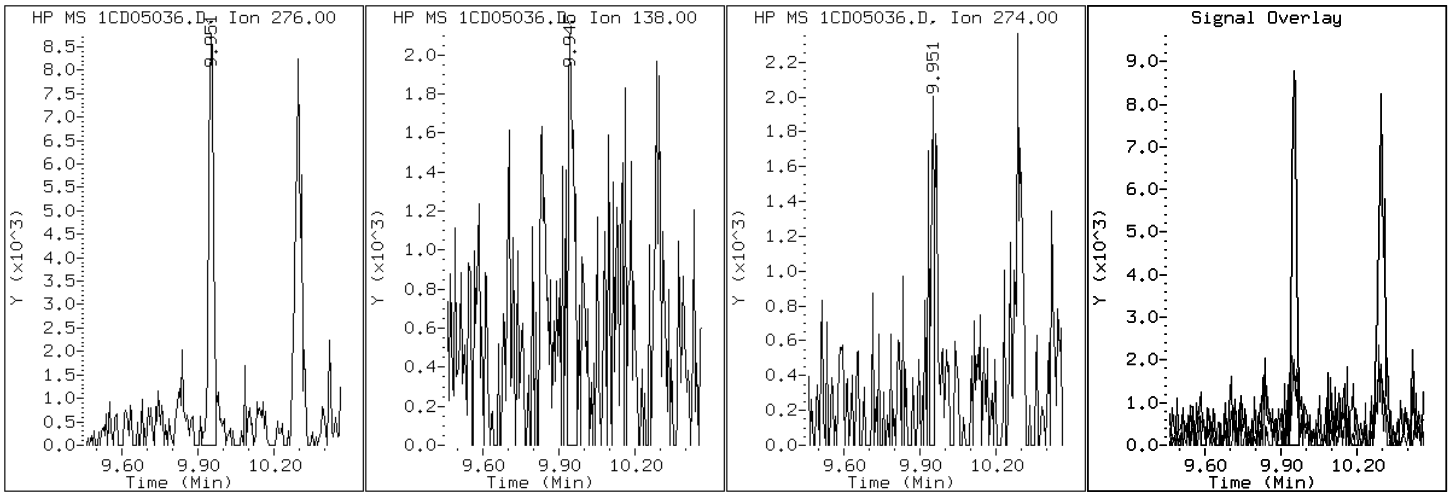
Client ID: CV0509AM-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-53-a

Operator: SCC

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



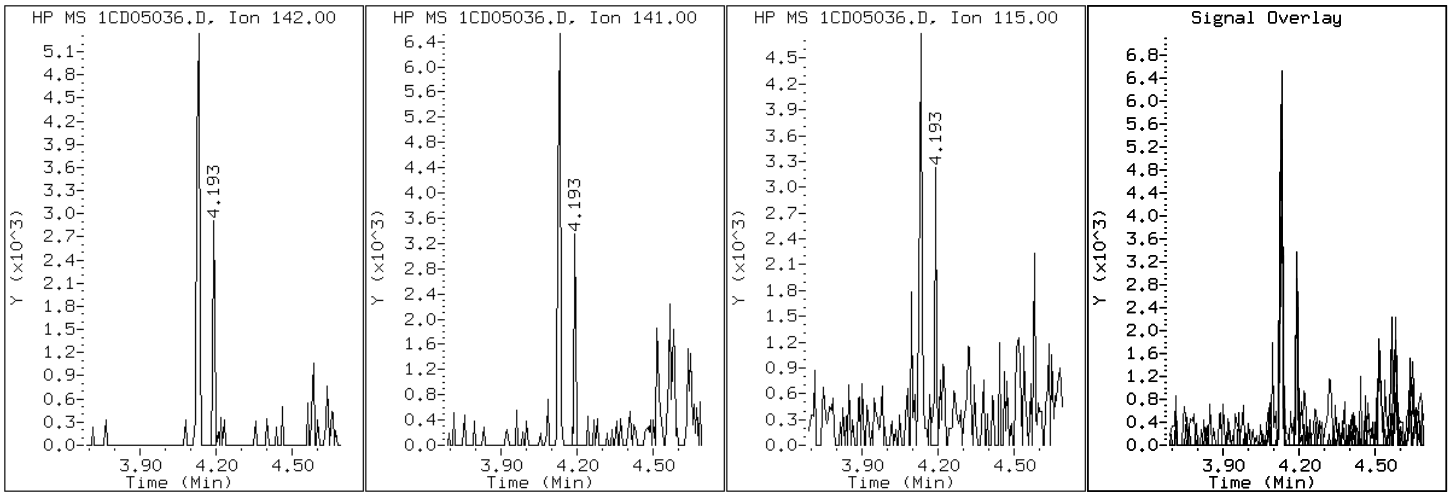
Data File: 1CD05036.D

Date: 05-APR-2013 22:09

Client ID: CV0509AM-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-53-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD05036.D

Date: 05-APR-2013 22:09

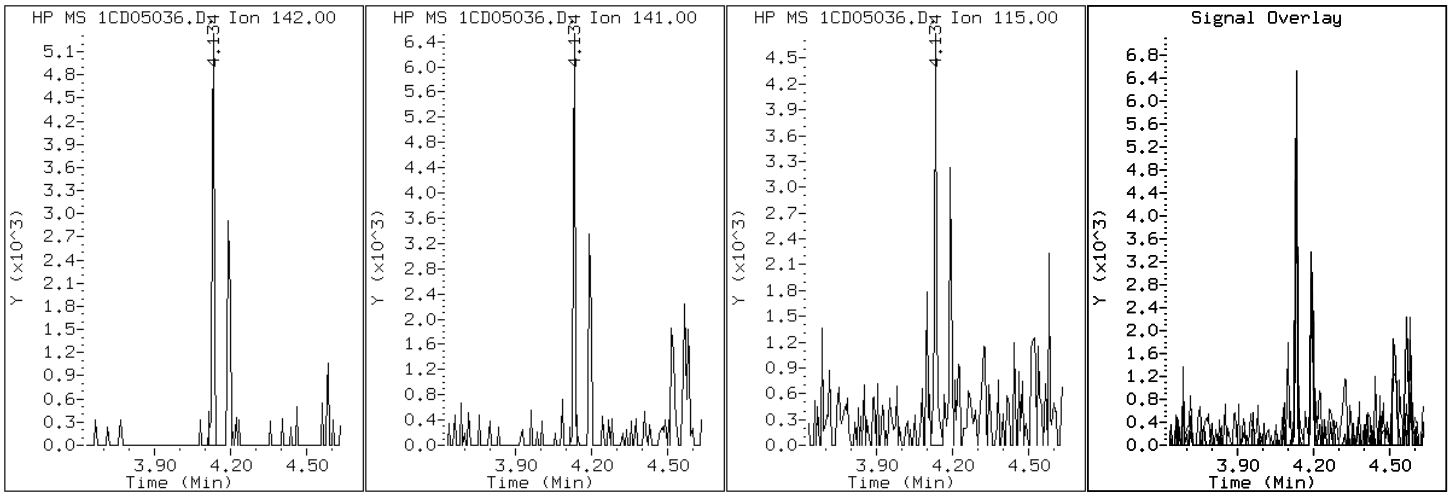
Client ID: CV0509AM-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-53-a

Operator: SCC

3 2-Methylnaphthalene



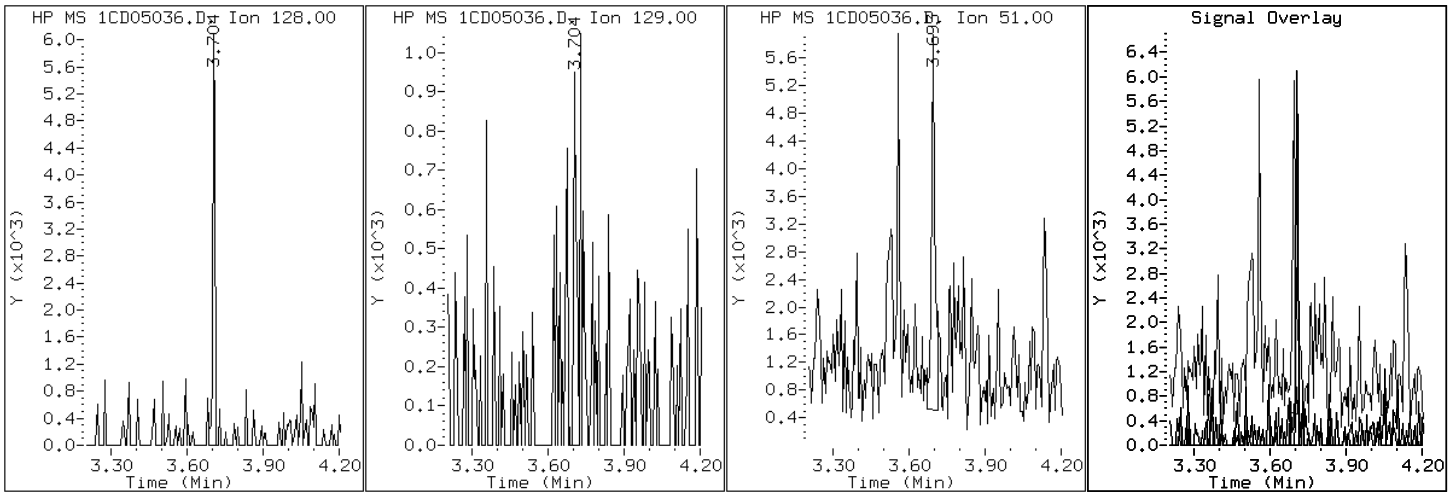
Data File: 1CD05036.D

Date: 05-APR-2013 22:09

Client ID: CV0509AM-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-53-a Operator: SCC

2 Naphthalene



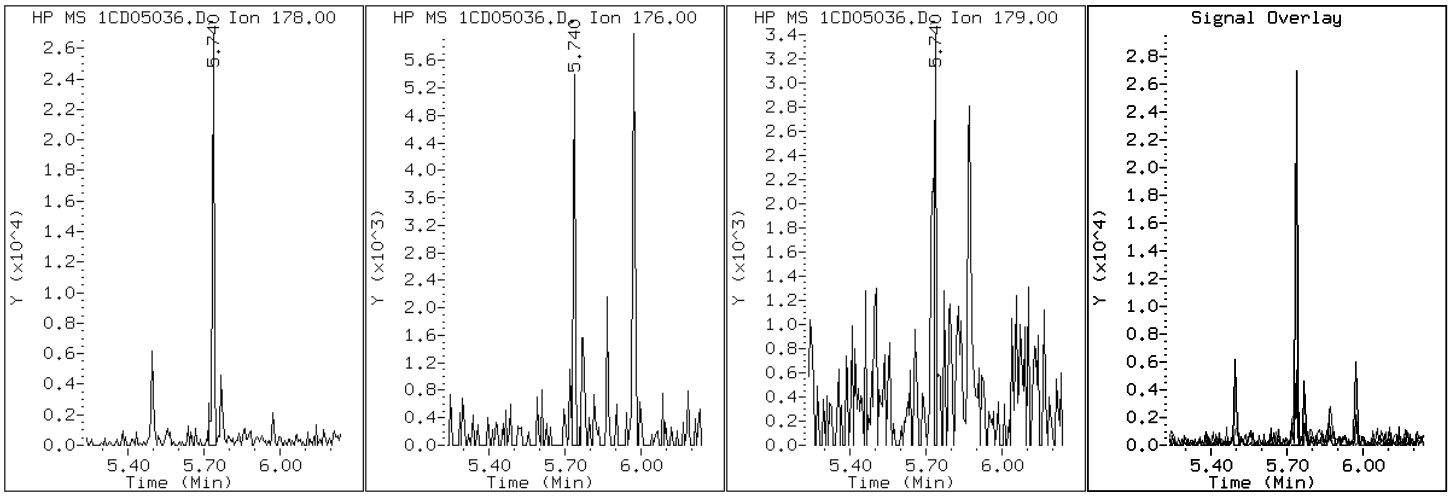
Data File: 1CD05036.D

Date: 05-APR-2013 22:09

Client ID: CV0509AM-GS | Instrument: BSMC5973.i

Sample Info: 680-88767-a-53-a | Operator: SCC

11 Phenanthrene



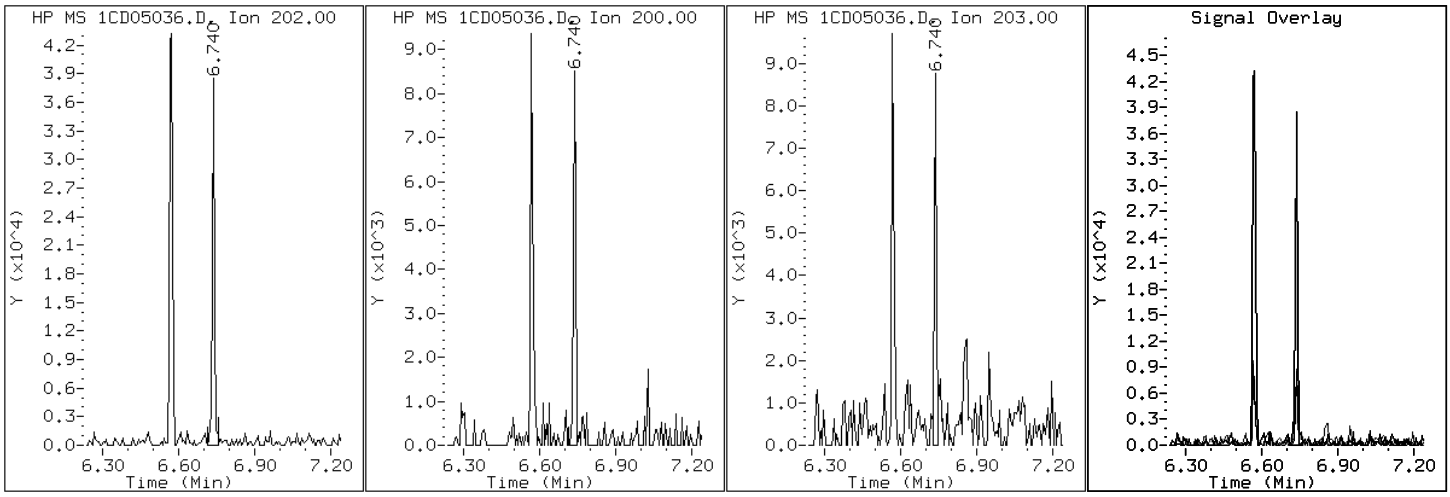
Data File: 1CD05036.D

Date: 05-APR-2013 22:09

Client ID: CV0509AM-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-53-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD05036.D
Inj. Date and Time: 05-APR-2013 22:09
Instrument ID: BSMC5973.i
Client ID: CV0509AM-GS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/09/2013

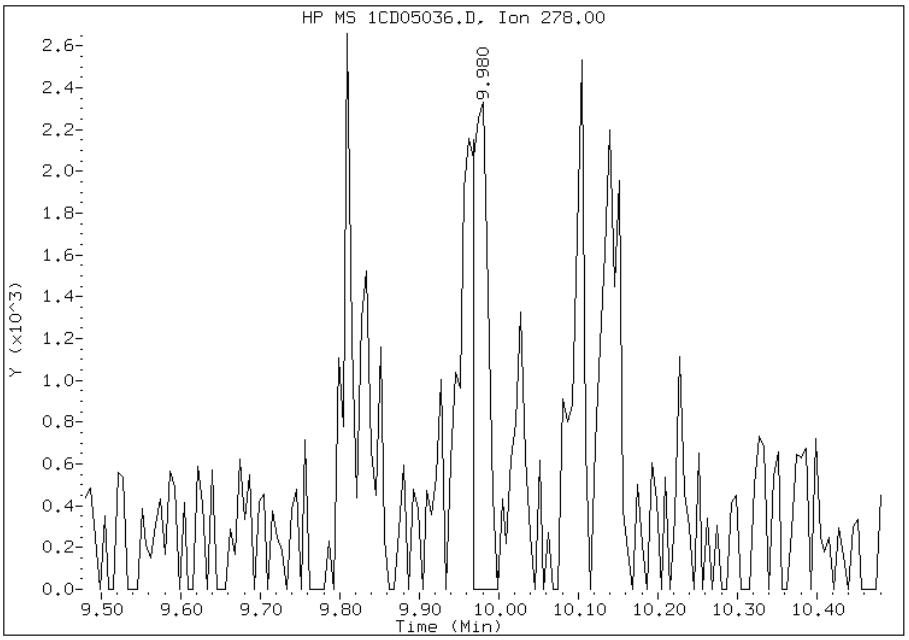
Processing Integration Results

RT: 9.98

Response: 3006

Amount: 0

Conc: 13



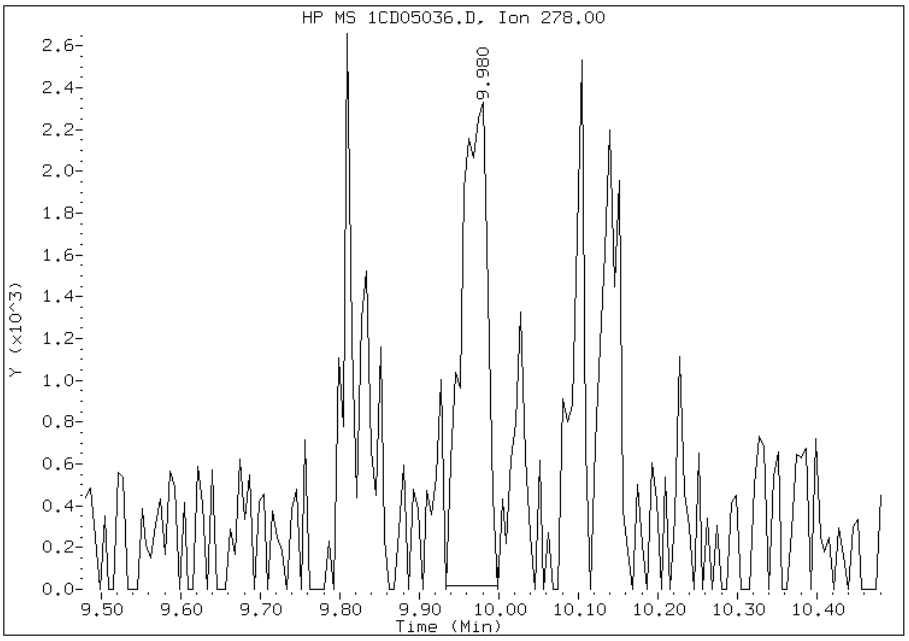
Manual Integration Results

RT: 9.98

Response: 5302

Amount: 0

Conc: 23



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 13:42
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD05036.D
Inj. Date and Time: 05-APR-2013 22:09
Instrument ID: BSMC5973.i
Client ID: CV0509AM-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

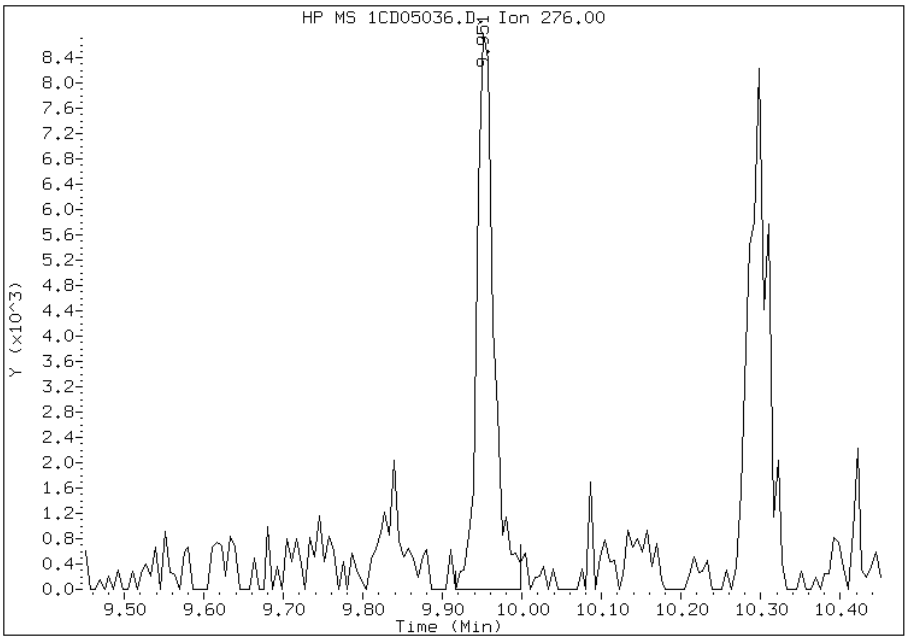
Processing Integration Results

RT: 9.95

Response: 13060

Amount: 1

Conc: 51



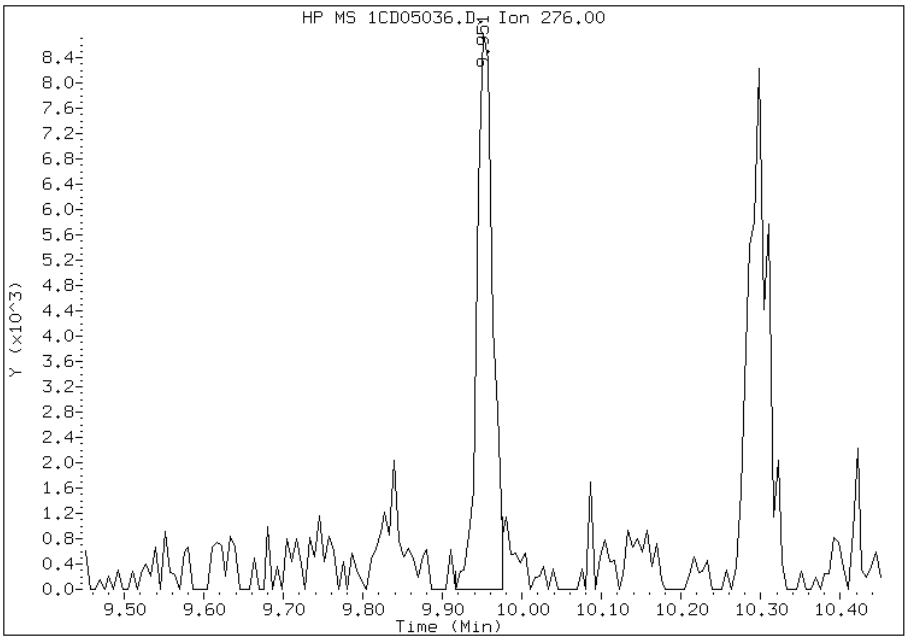
Manual Integration Results

RT: 9.95

Response: 12116

Amount: 1

Conc: 48



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 13:43
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88767-3

SDG No.: 68088767-3

Client Sample ID: CV0509AN-GS | Lab Sample ID: 680-88767-54

Matrix: Solid | Lab File ID: 1CD05037.D

Analysis Method: 8270C LL | Date Collected: 03/26/2013 15:40

Extract. Method: 3546 | Date Extracted: 04/04/2013 10:07

Sample wt/vol: 15.15(g) | Date Analyzed: 04/05/2013 22:27

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

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

% Moisture: 33.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136171 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	30
208-96-8	Acenaphthylene	7.9	J	59	7.4
120-12-7	Anthracene	13		12	6.2
56-55-3	Benzo[a]anthracene	95		12	5.8
50-32-8	Benzo[a]pyrene	69		15	7.7
205-99-2	Benzo[b]fluoranthene	110		18	9.0
191-24-2	Benzo[g,h,i]perylene	100		30	6.5
207-08-9	Benzo[k]fluoranthene	41		12	5.3
218-01-9	Chrysene	61		13	6.7
53-70-3	Dibenz(a,h)anthracene	21	J	30	6.1
206-44-0	Fluoranthene	100		30	5.9
86-73-7	Fluorene	30	U	30	6.1
193-39-5	Indeno[1,2,3-cd]pyrene	41		30	11
90-12-0	1-Methylnaphthalene	25	J	59	6.5
91-57-6	2-Methylnaphthalene	31	J	59	11
91-20-3	Naphthalene	27	J	59	6.5
85-01-8	Phenanthrene	67		12	5.8
129-00-0	Pyrene	100		30	5.5

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\1C040513.b\1CD05037.D
Lab Smp Id: 680-88767-A-54-A Client Smp ID: CV0509AN-GS
Inj Date : 05-APR-2013 22:27
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88767-a-54-a
Misc Info : 680-88767-A-54-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m
Meth Date : 05-Apr-2013 12:31 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	15.150	Weight Extracted
M	33.117	% 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	3.692	3.692	(1.000)	573844	40.0000	
* 6 Acenaphthene-d10	164	4.780	4.780	(1.000)	439176	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	806616	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	64411	5.61764	554.4014
* 18 Chrysene-d12	240	7.656	7.662	(1.000)	886289	40.0000	
* 23 Perylene-d12	264	8.821	8.827	(1.000)	833376	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	4011	0.27213	26.8567(Q)
3 2-Methylnaphthalene	142	4.133	4.133	(1.119)	3156	0.31456	31.0435
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	2301	0.25488	25.1537
5 Acenaphthylene	152	4.692	4.692	(0.982)	1455	0.08005	7.8999
11 Phenanthrene	178	5.739	5.739	(1.003)	16041	0.68282	67.3867
12 Anthracene	178	5.774	5.774	(1.009)	3148	0.13219	13.0456(Q)
13 Carbazole	167	5.874	5.880	(1.027)	2745	0.13454	13.2776(Q)
15 Fluoranthene	202	6.568	6.574	(1.148)	27215	1.04897	103.5226

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.739	6.739	(0.880)	25812	1.05137	103.7588
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	21116	0.95790	94.5343
19 Chrysene	228	7.674	7.680	(1.002)	15484	0.61310	60.5062
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.961)	27413	1.16353	114.8279(M)
21 Benzo(k)fluoranthene	252	8.498	8.509	(0.963)	9443	0.41440	40.8972(M)
22 Benzo(a)pyrene	252	8.768	8.774	(0.994)	15537	0.70045	69.1271
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.962	(1.129)	8767	0.41613	41.0672(M)
25 Dibenzo(a,h)anthracene	278	9.968	9.980	(1.130)	4167	0.21411	21.1303(MH)
26 Benzo(g,h,i)perylene	276	10.292	10.303	(1.167)	22144	1.02983	101.6334(M)

QC Flag Legend

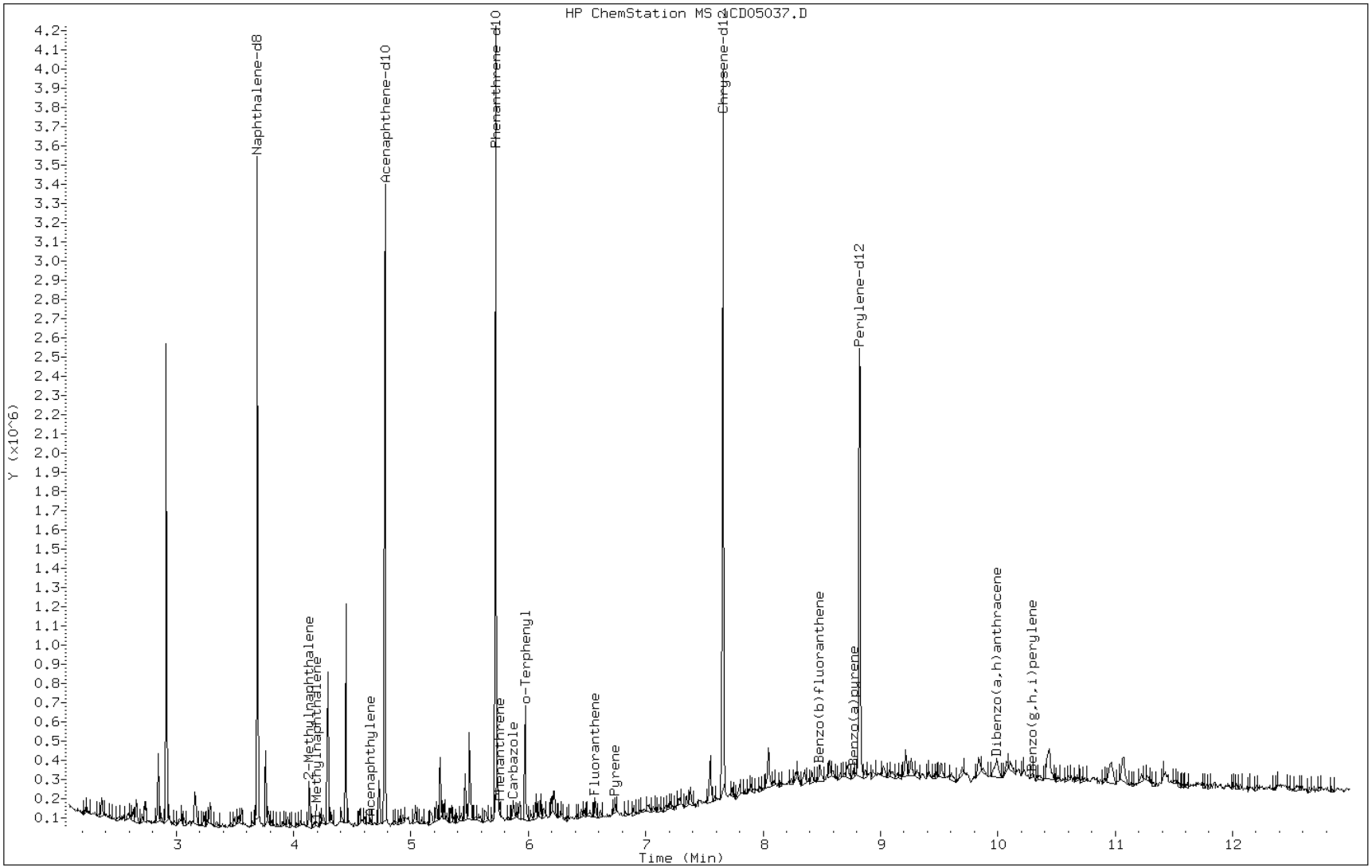
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD05037.D

Date: 05-APR-2013 22:27

Client ID: CV0509AN-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-54-a Operator: SCC



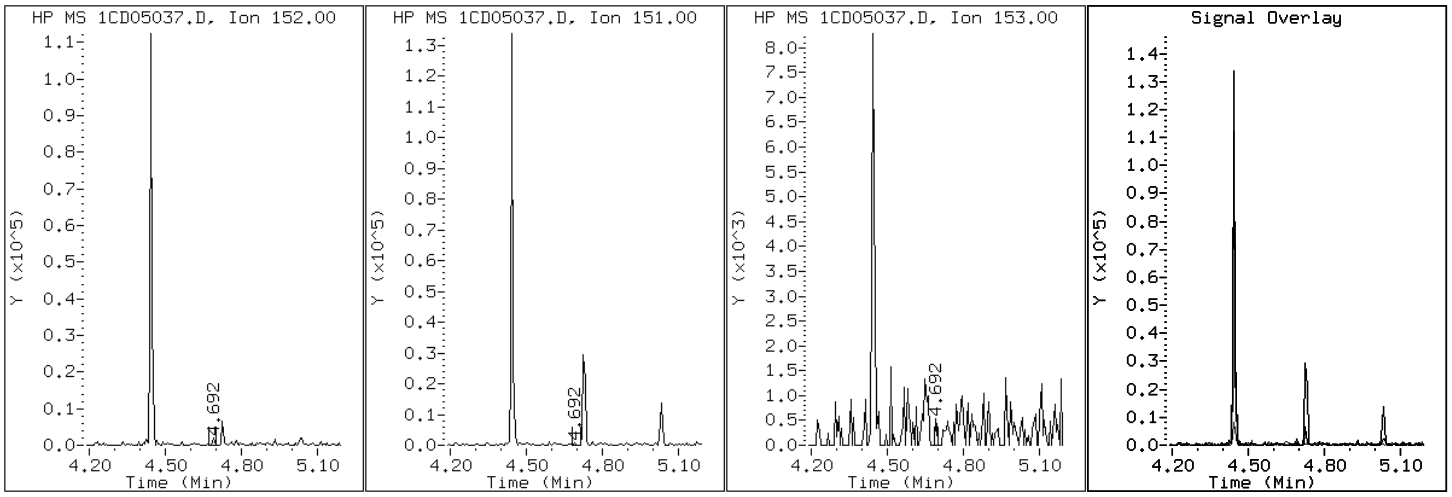
Data File: 1CD05037.D

Date: 05-APR-2013 22:27

Client ID: CV0509AN-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-54-a Operator: SCC

5 Acenaphthylene



Data File: 1CD05037.D

Date: 05-APR-2013 22:27

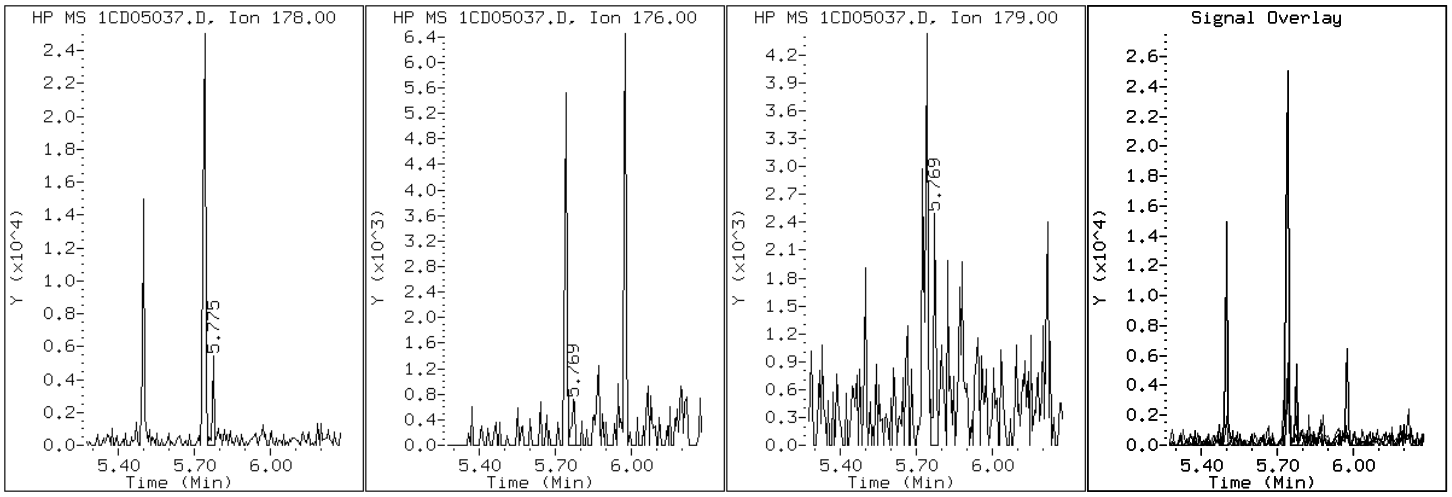
Client ID: CV0509AN-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-54-a

Operator: SCC

12 Anthracene



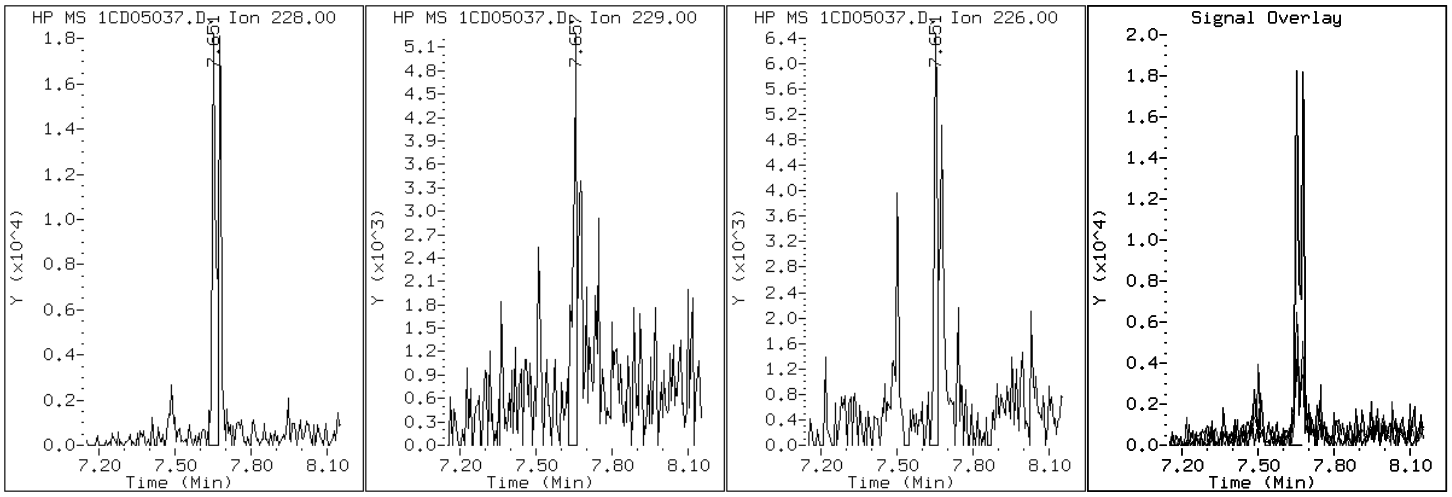
Data File: 1CD05037.D

Date: 05-APR-2013 22:27

Client ID: CV0509AN-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-54-a Operator: SCC

17 Benzo(a)anthracene



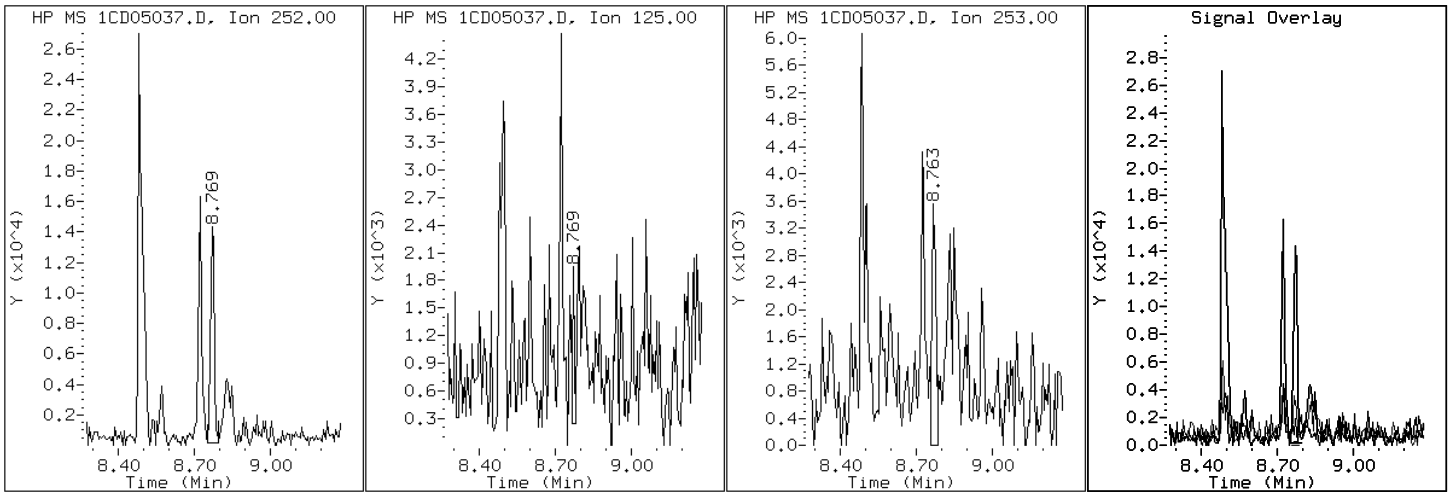
Data File: 1CD05037.D

Date: 05-APR-2013 22:27

Client ID: CV0509AN-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-54-a Operator: SCC

22 Benzo(a)pyrene



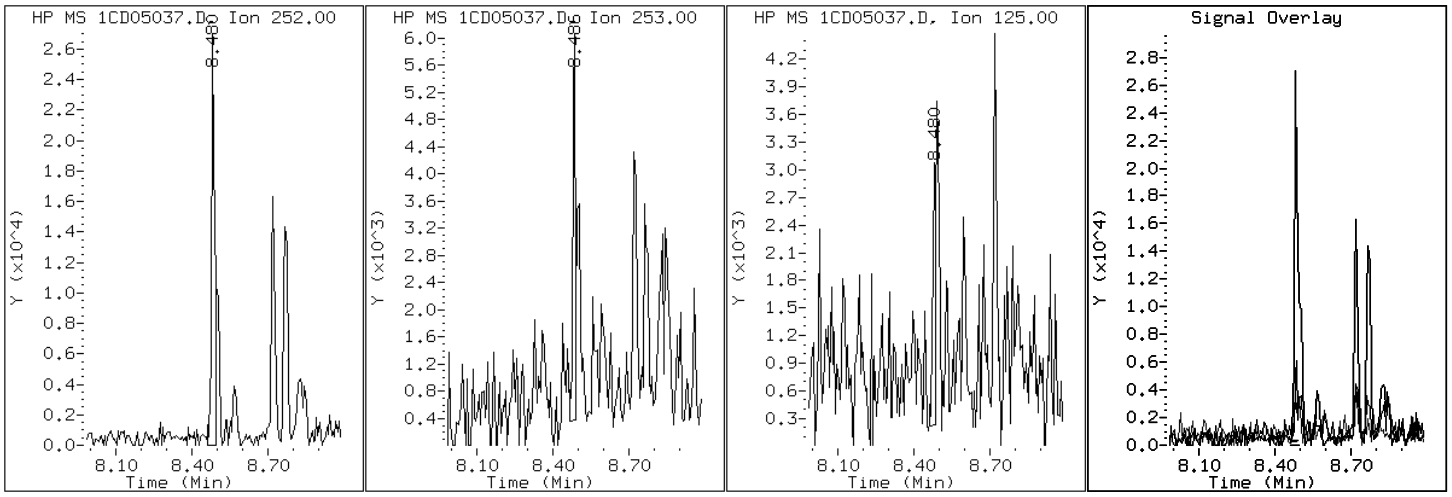
Data File: 1CD05037.D

Date: 05-APR-2013 22:27

Client ID: CV0509AN-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-54-a Operator: SCC

20 Benzo(b)fluoranthene



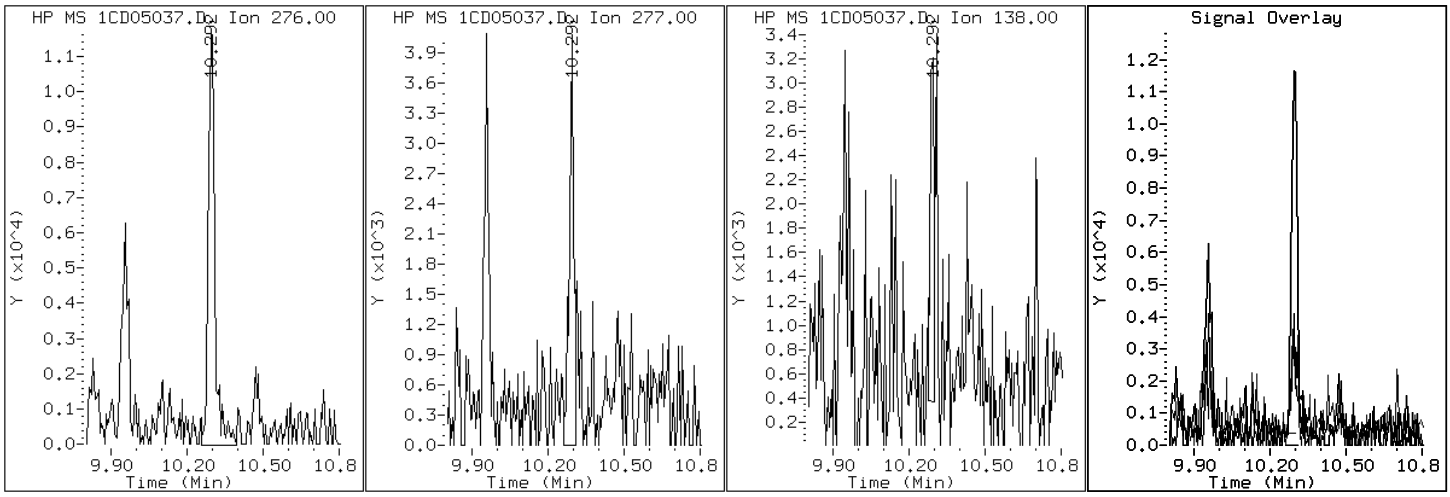
Data File: 1CD05037.D

Date: 05-APR-2013 22:27

Client ID: CV0509AN-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-54-a Operator: SCC

26 Benzo(g,h,i)perylene



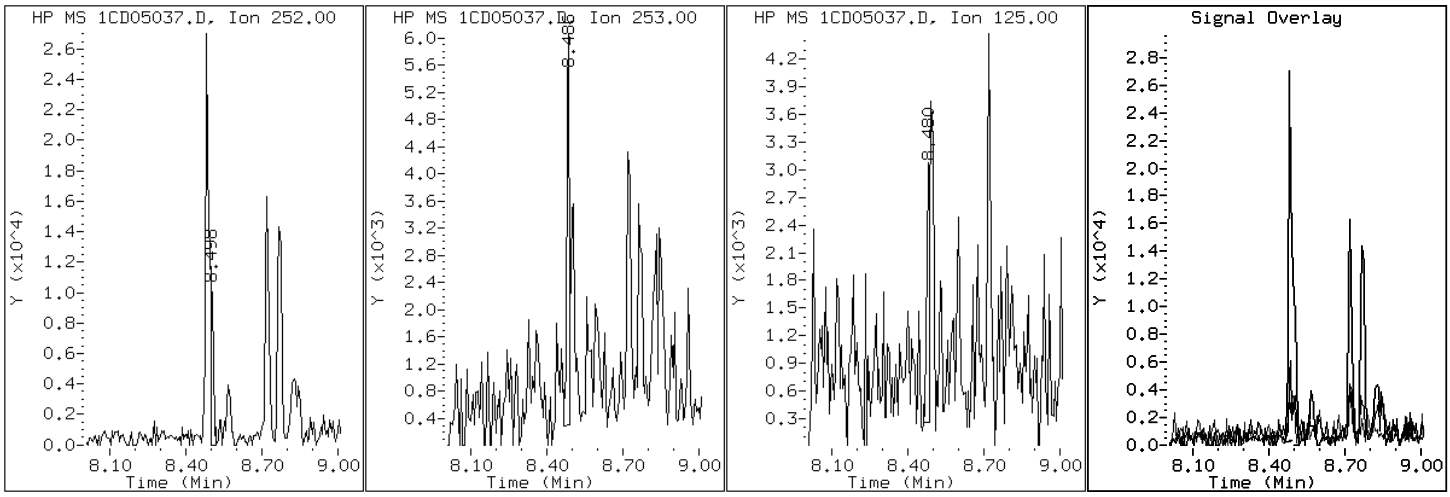
Data File: 1CD05037.D

Date: 05-APR-2013 22:27

Client ID: CV0509AN-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-54-a Operator: SCC

21 Benzo(k)fluoranthene



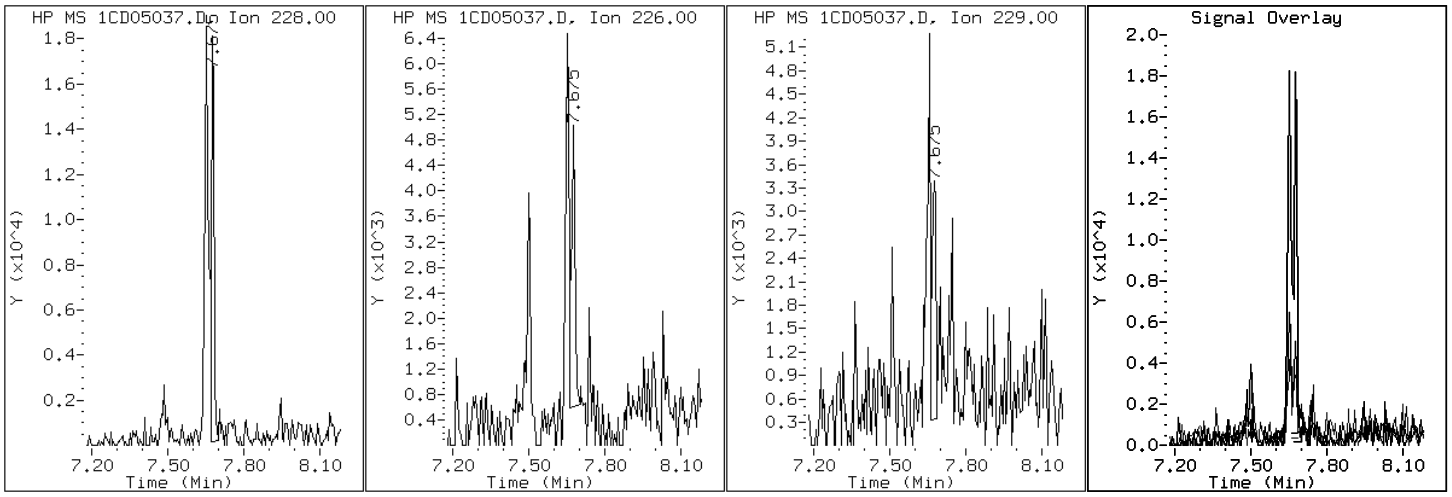
Data File: 1CD05037.D

Date: 05-APR-2013 22:27

Client ID: CV0509AN-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-54-a Operator: SCC

19 Chrysene



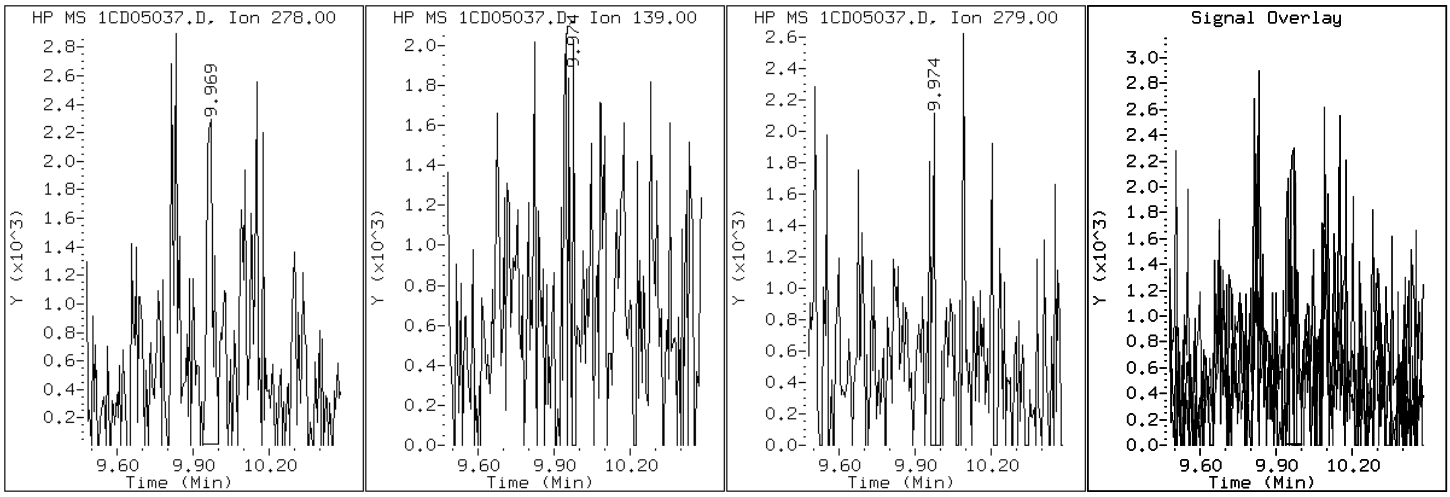
Data File: 1CD05037.D

Date: 05-APR-2013 22:27

Client ID: CV0509AN-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-54-a Operator: SCC

25 Dibenzo(a,h)anthracene



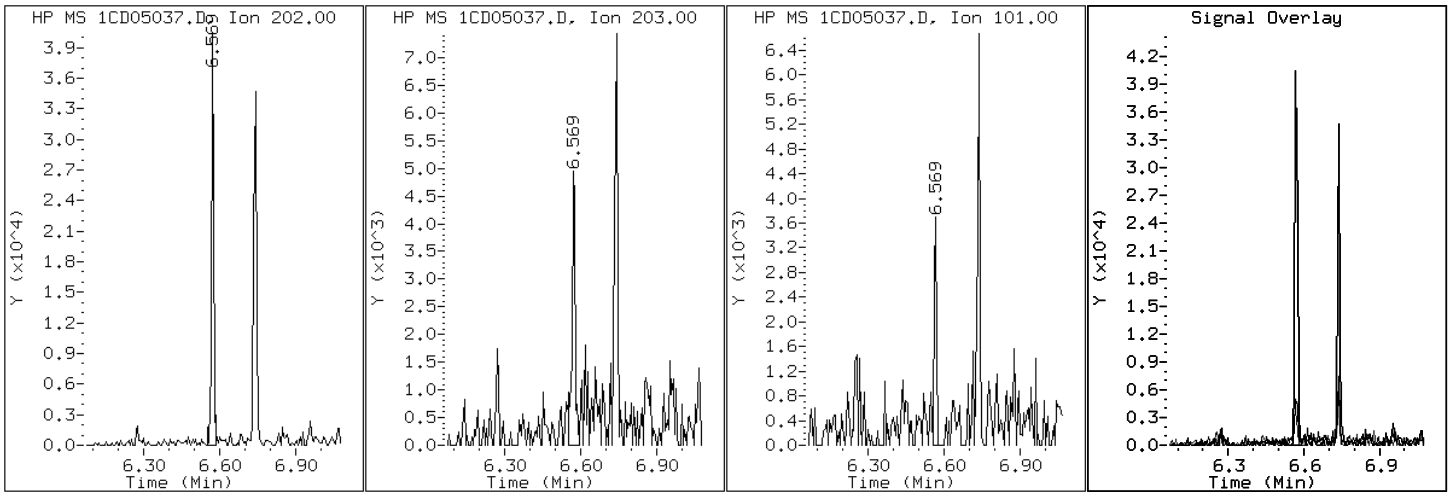
Data File: 1CD05037.D

Date: 05-APR-2013 22:27

Client ID: CV0509AN-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-54-a Operator: SCC

15 Fluoranthene



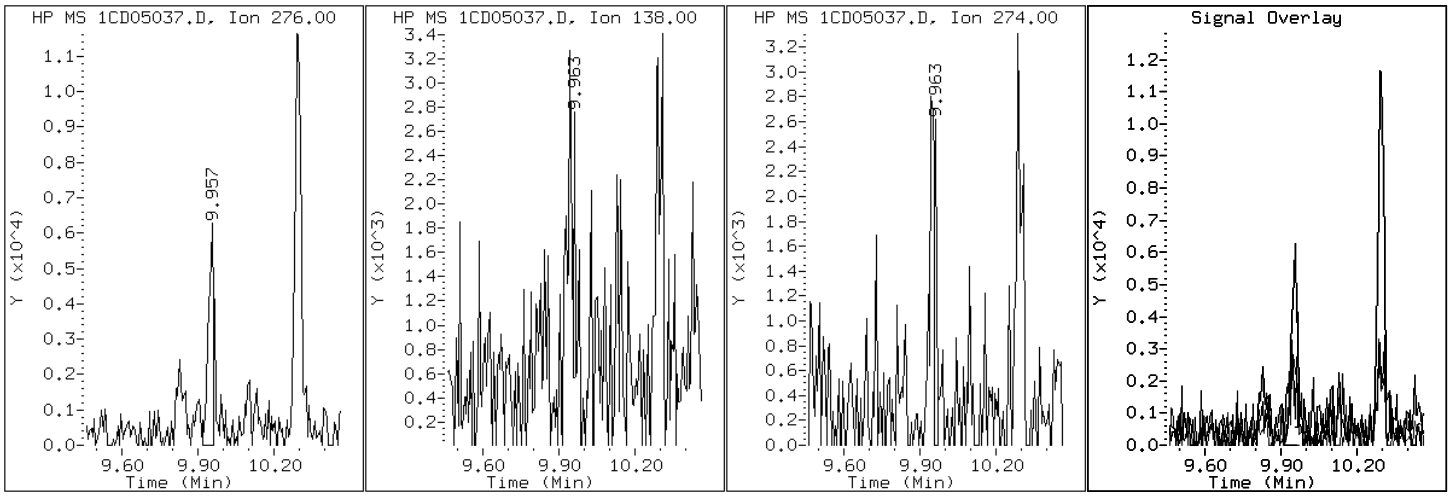
Data File: 1CD05037.D

Date: 05-APR-2013 22:27

Client ID: CV0509AN-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-54-a Operator: SCC

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



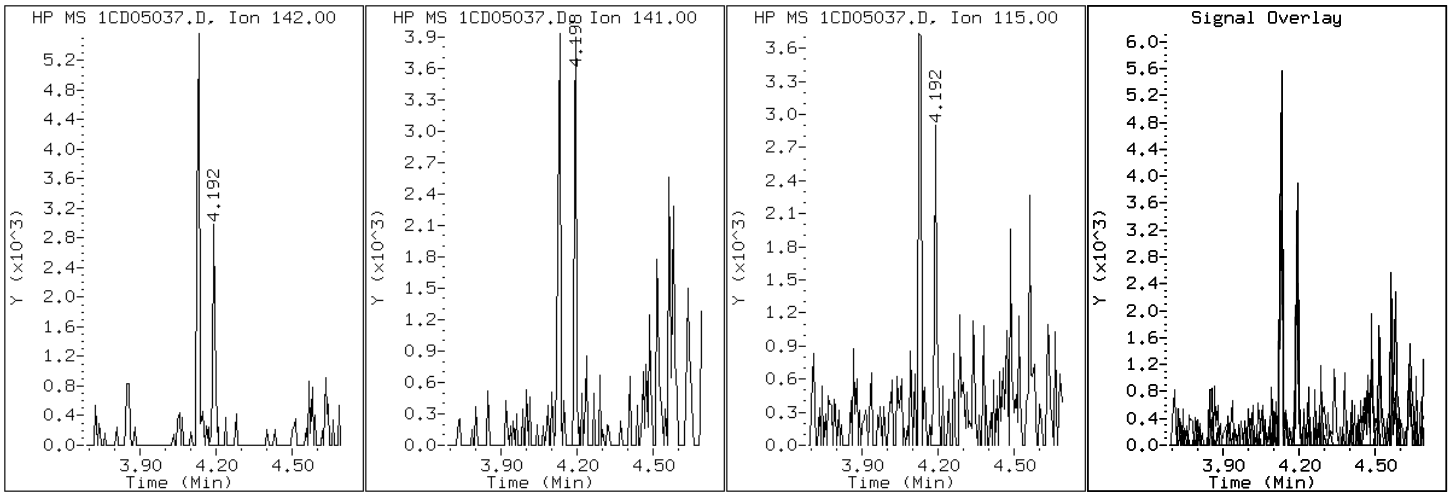
Data File: 1CD05037.D

Date: 05-APR-2013 22:27

Client ID: CV0509AN-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-54-a Operator: SCC

4 1-Methylnaphthalene



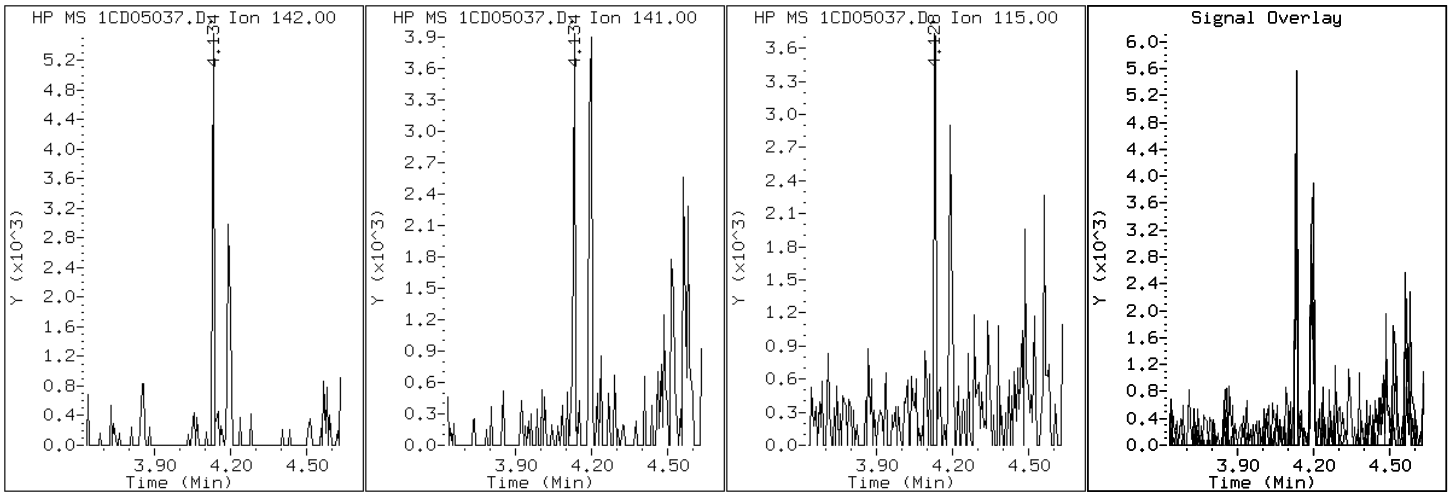
Data File: 1CD05037.D

Date: 05-APR-2013 22:27

Client ID: CV0509AN-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-54-a Operator: SCC

3 2-Methylnaphthalene



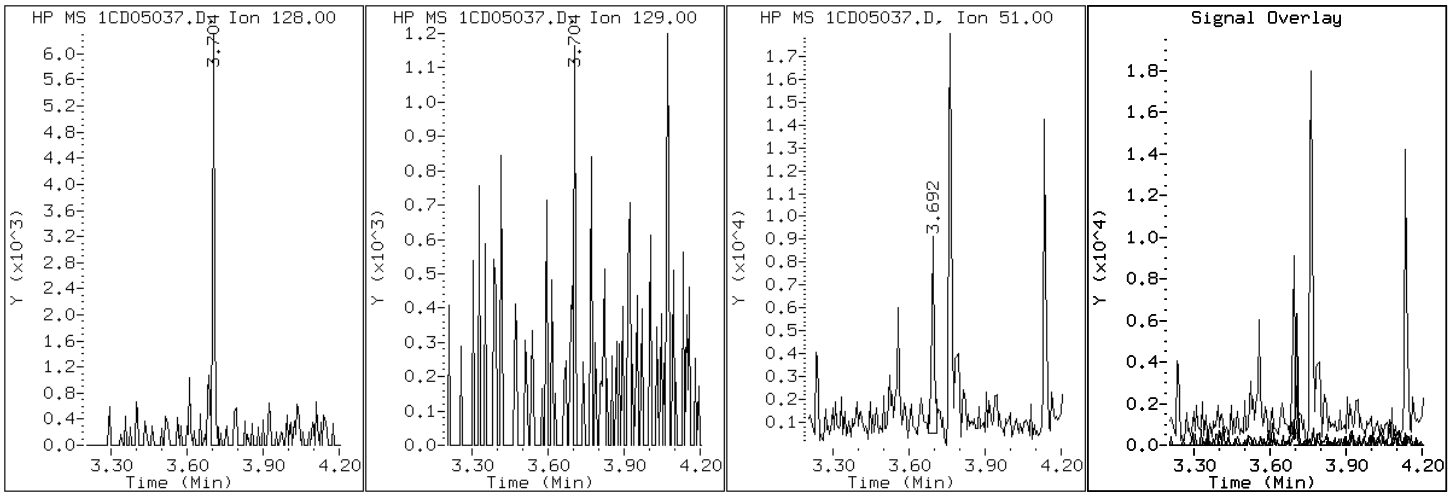
Data File: 1CD05037.D

Date: 05-APR-2013 22:27

Client ID: CV0509AN-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-54-a Operator: SCC

2 Naphthalene



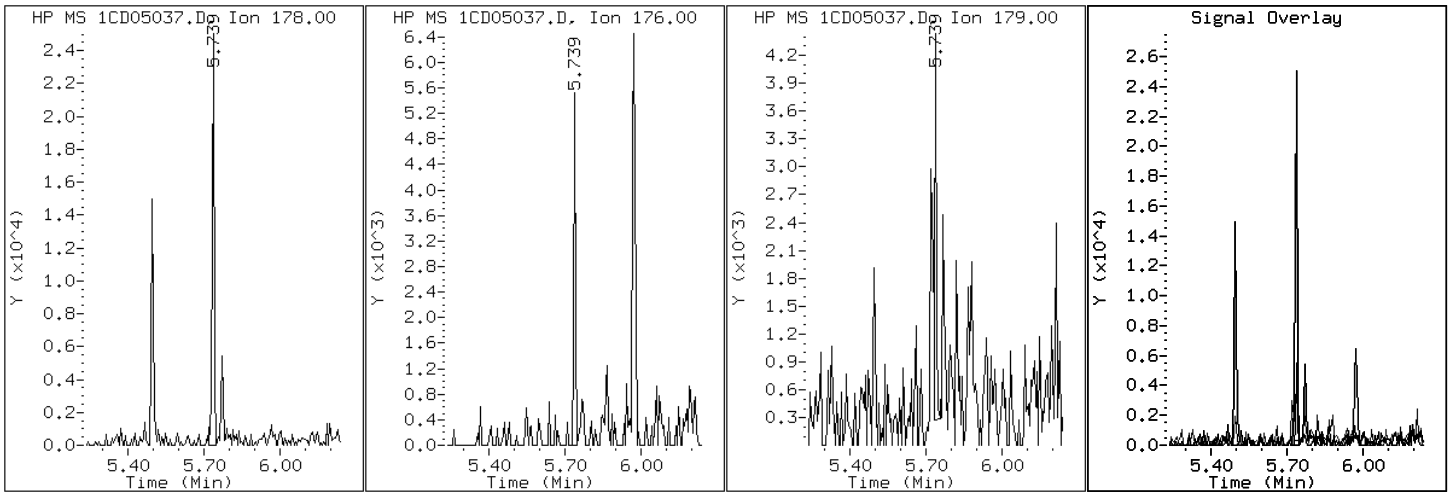
Data File: 1CD05037.D

Date: 05-APR-2013 22:27

Client ID: CV0509AN-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-54-a Operator: SCC

11 Phenanthrene



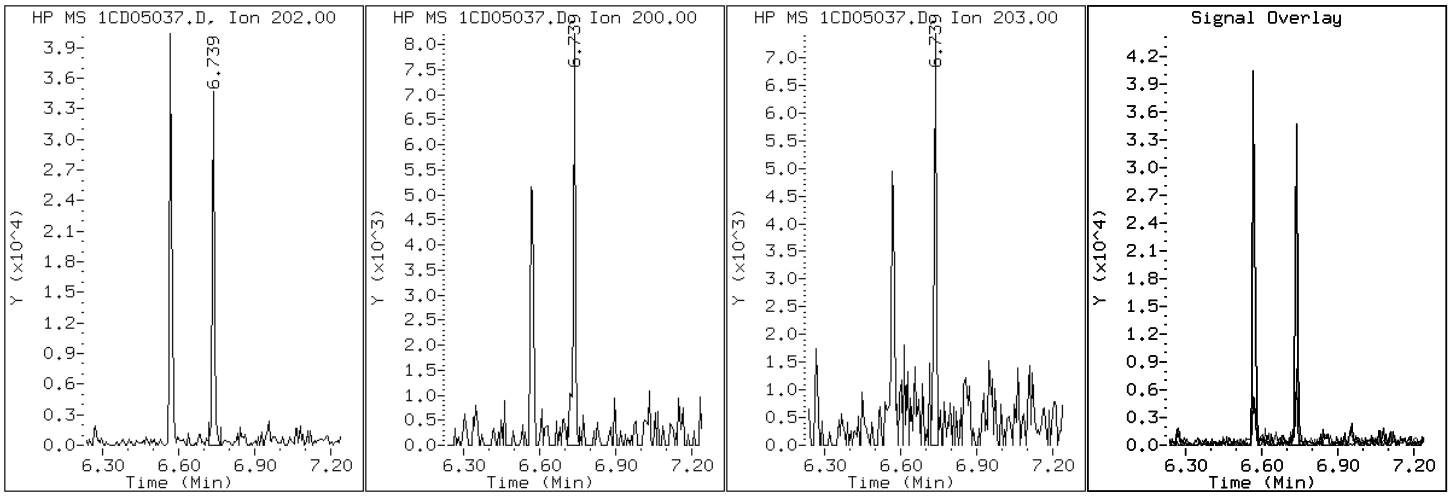
Data File: 1CD05037.D

Date: 05-APR-2013 22:27

Client ID: CV0509AN-GS Instrument: BSMC5973.i

Sample Info: 680-88767-a-54-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD05037.D
Inj. Date and Time: 05-APR-2013 22:27
Instrument ID: BSMC5973.i
Client ID: CV0509AN-GS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/09/2013

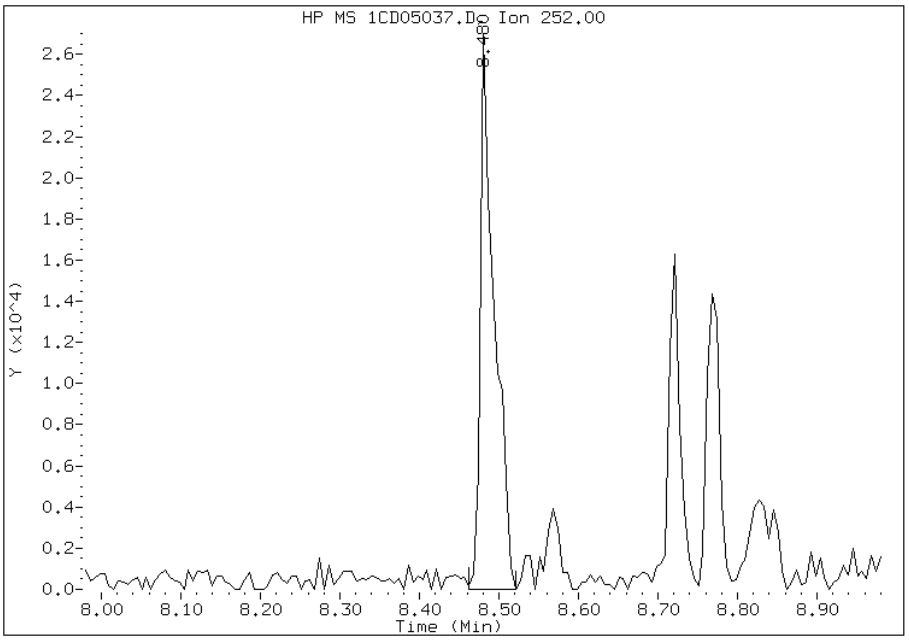
Processing Integration Results

RT: 8.48

Response: 33098

Amount: 1

Conc: 139



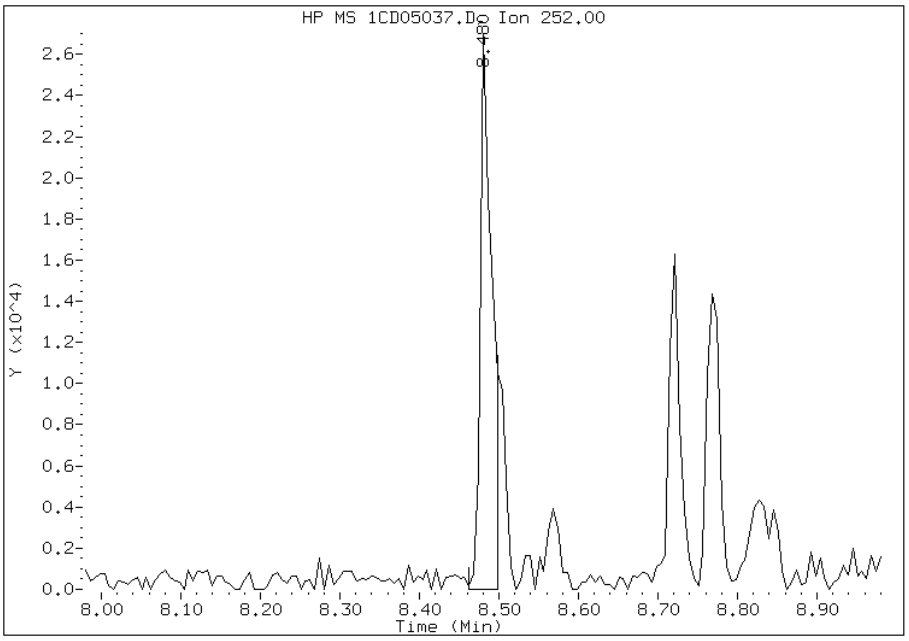
Manual Integration Results

RT: 8.48

Response: 27413

Amount: 1

Conc: 115



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 13:43
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD05037.D
Inj. Date and Time: 05-APR-2013 22:27
Instrument ID: BSMC5973.i
Client ID: CV0509AN-GS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/09/2013

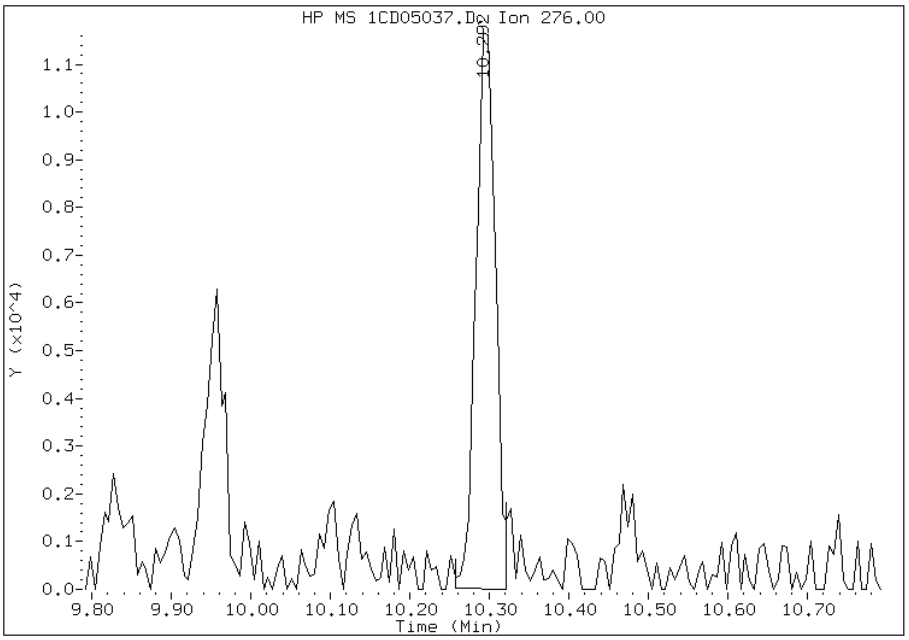
Processing Integration Results

RT: 10.29

Response: 19846

Amount: 1

Conc: 91



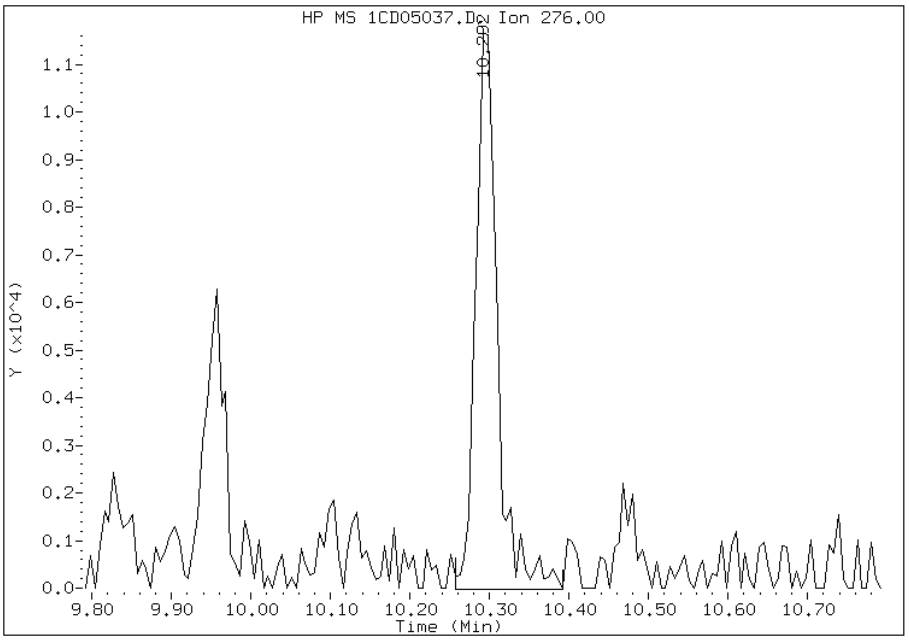
Manual Integration Results

RT: 10.29

Response: 22144

Amount: 1

Conc: 102



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 13:44
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD05037.D
Inj. Date and Time: 05-APR-2013 22:27
Instrument ID: BSMC5973.i
Client ID: CV0509AN-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/09/2013

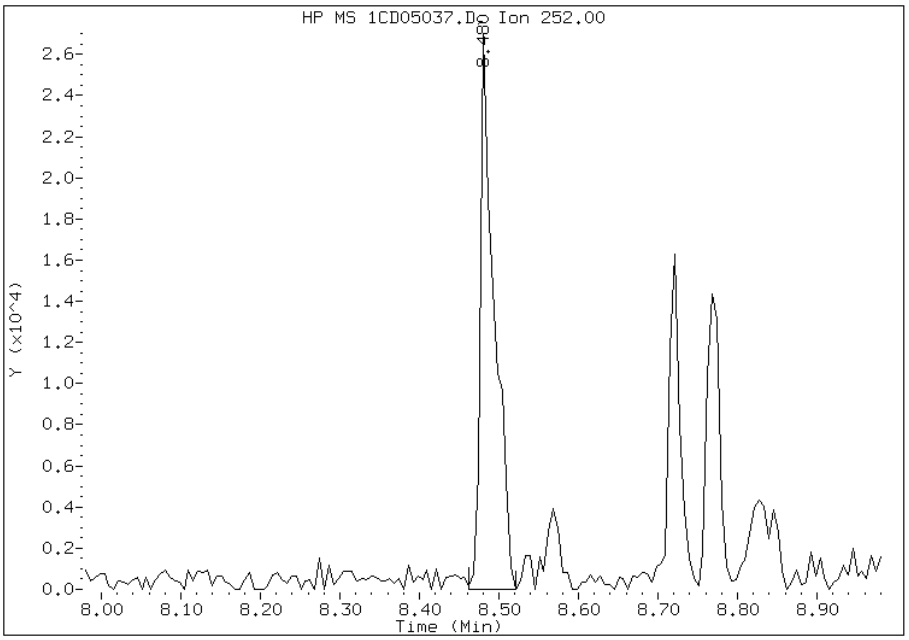
Processing Integration Results

RT: 8.48

Response: 33098

Amount: 1

Conc: 143



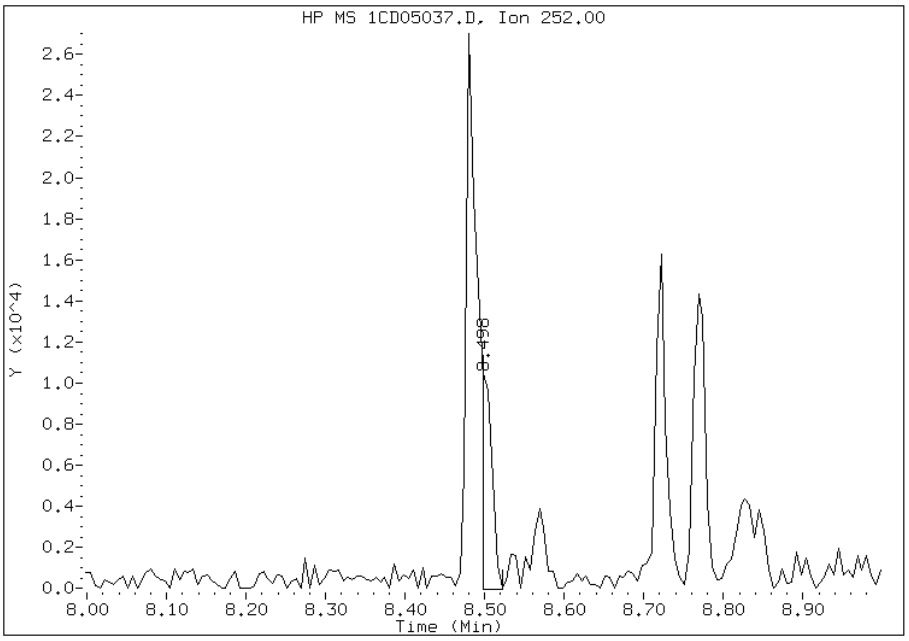
Manual Integration Results

RT: 8.50

Response: 9443

Amount: 0

Conc: 41



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 13:43
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD05037.D
Inj. Date and Time: 05-APR-2013 22:27
Instrument ID: BSMC5973.i
Client ID: CV0509AN-GS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/09/2013

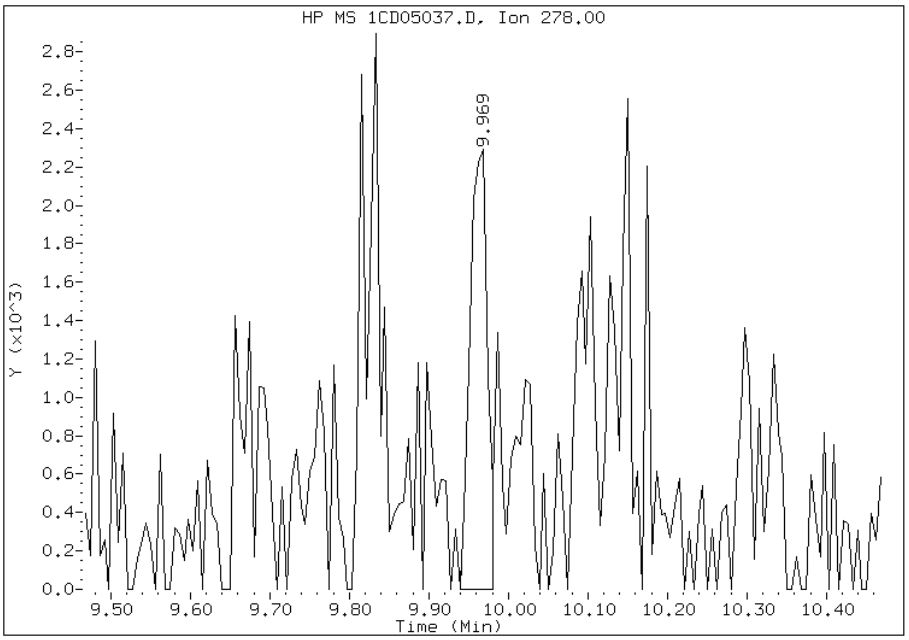
Processing Integration Results

RT: 9.97

Response: 3454

Amount: 0

Conc: 18



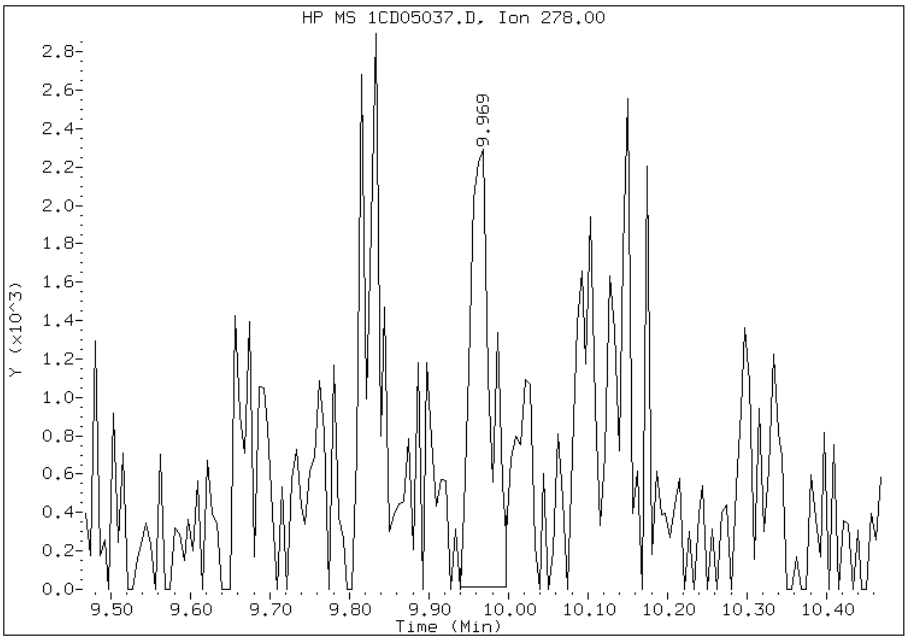
Manual Integration Results

RT: 9.97

Response: 4167

Amount: 0

Conc: 21



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 13:44
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD05037.D
Inj. Date and Time: 05-APR-2013 22:27
Instrument ID: BSMC5973.i
Client ID: CV0509AN-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

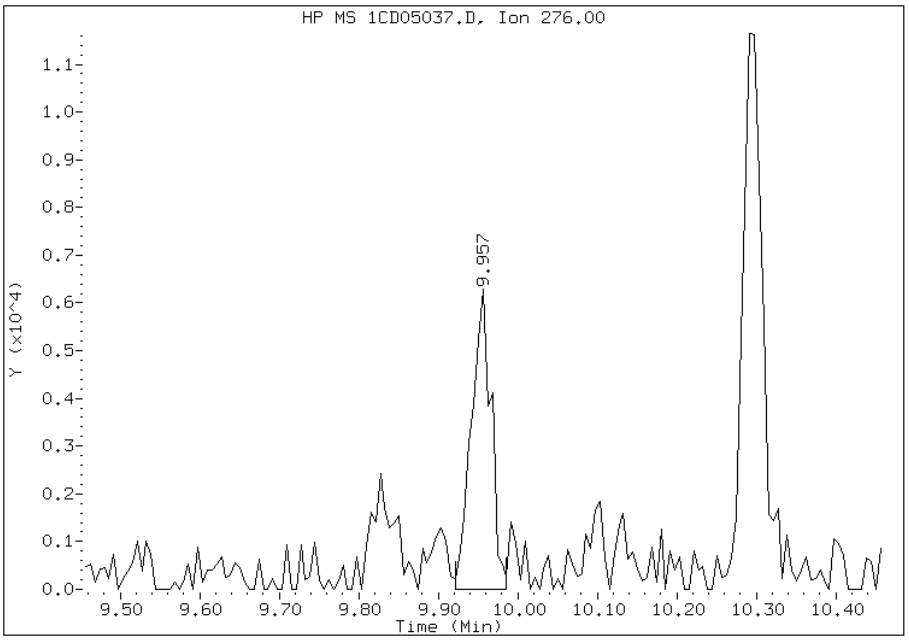
Processing Integration Results

RT: 9.96

Response: 10767

Amount: 1

Conc: 50



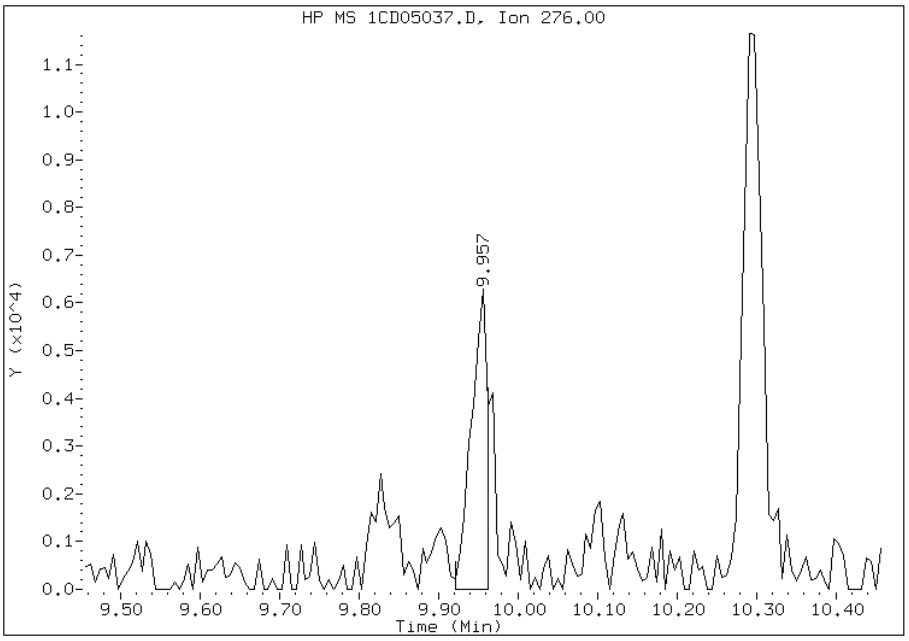
Manual Integration Results

RT: 9.96

Response: 8767

Amount: 0

Conc: 41



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 13:45
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88767-3 Analy Batch No.: 136048

SDG No.: 68088767-3

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.: 680-88767-3 Analy Batch No.: 136048

SDG No.: 68088767-3

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.: 680-88767-3 Analy B

SDG No.: 68088767-3

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

Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibra

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					CO	
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7
Naphthalene	NPT	Ave	2264 350333	10440 668649	65815	121970	253190	0.200 30.0	1. 50
2-Methylnaphthalene	NPT	Ave	1726 228375	7695 447751	39376	89978	158694	0.200 30.0	1. 50
1-Methylnaphthalene	NPT	Ave	1649 221182	5100 419135	37056	73198	163647	0.200 30.0	1. 50
Acenaphthylene	ANT	Ave	2387 423924	12563 814053	70473	148174	308909	0.200 30.0	1. 50
Acenaphthene	ANT	Lin	1338 244735	10900 480392	39421	84460	191043	0.200 30.0	1. 50
Fluorene	ANT	Ave	2130 331328	11990 638557	58298	114648	243174	0.200 30.0	1. 50
Phenanthrene	PHN	Ave	3900 529536	16838 1077014	88442	194036	392252	0.200 30.0	1. 50
Anthracene	PHN	Ave	3761 557837	16401 1098599	90016	200131	408192	0.200 30.0	1. 50
Carbazole	PHN	Ave	2871 488550	13272 948101	83549	167822	376402	0.200 30.0	1. 50
Fluoranthene	PHN	Ave	3316 607836	17746 1248081	105772	224705	468708	0.200 30.0	1. 50
Pyrene	CRY	Ave	4087 663294	20532 1360548	109963	236267	498076	0.200 30.0	1. 50
Benzo[a]anthracene	CRY	Lin	7657 659379	24413 1380443	110756	250220	491852	0.200 30.0	1. 50
Chrysene	CRY	Ave	3963 659226	22752 1377767	118460	247512	494376	0.200 30.0	1. 50
Benzo[b]fluoranthene	PRY	Ave	5890 671785	19731 1443812	127315	261073	494109	0.200 30.0	1. 50
Benzo[k]fluoranthene	PRY	Ave	4185 719552	22203 1396501	121957	258924	517620	0.200 30.0	1. 50
Benzo[a]pyrene	PRY	Ave	5100 655944	20343 1403971	112782	240110	482722	0.200 30.0	1. 50
Indeno[1,2,3-cd]pyrene	PRY	Ave	5188 655344	19198 1242391	114519	222795	412839	0.200 30.0	1. 50
Dibenz(a,h)anthracene	PRY	Ave	3872 600720	19937 1194691	97409	216036	435940	0.200 30.0	1. 50
Benzo[g,h,i]perylene	PRY	Ave	4492 675124	20561 1270187	117403	233308	470085	0.200 30.0	1. 50
o-Terphenyl	PHN	Lin	2496 275212	7501 587824	45027	103309	211673	0.200 30.0	1. 50

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD

136048

N

2859

LVL 3	LVL 4	LVL 5
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\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

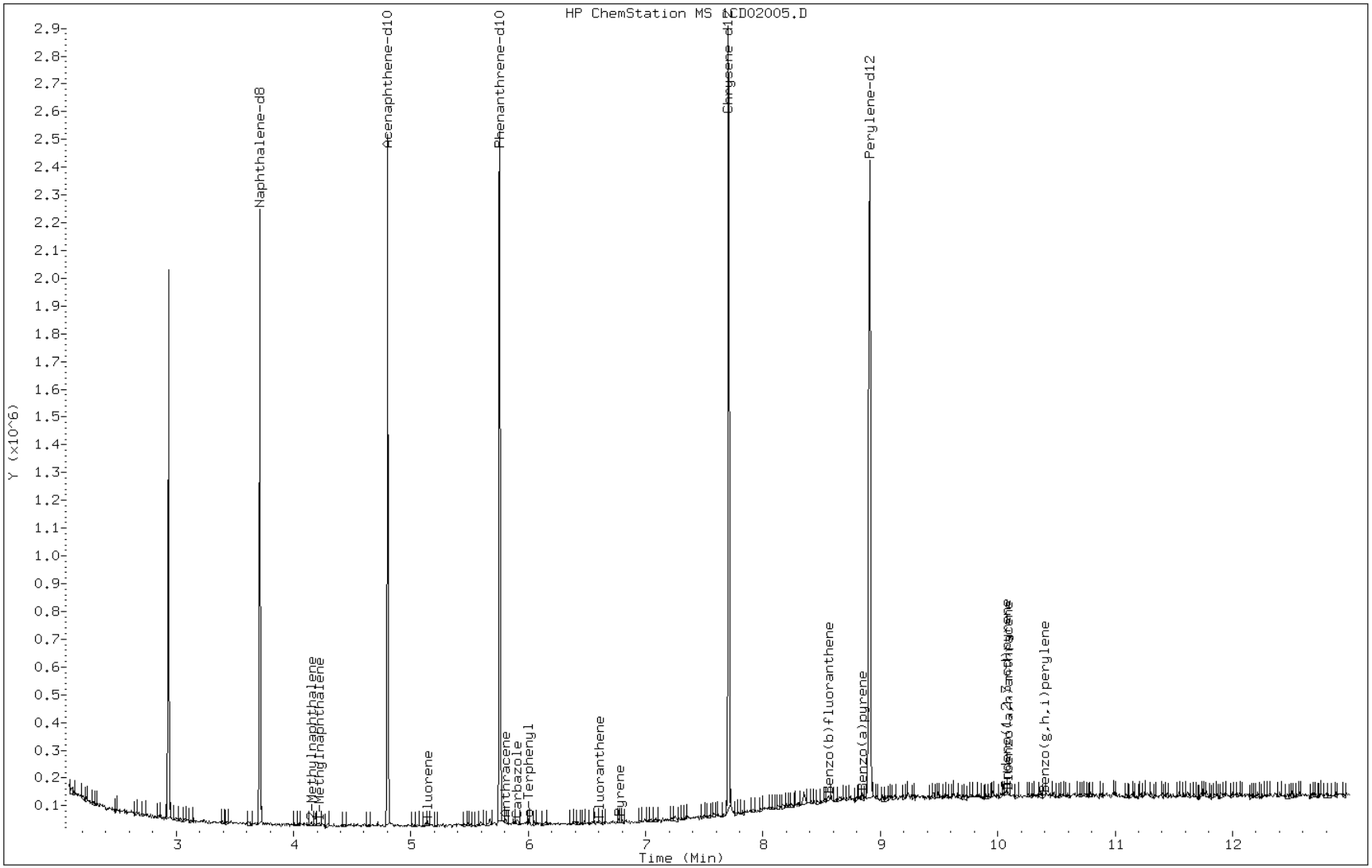
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

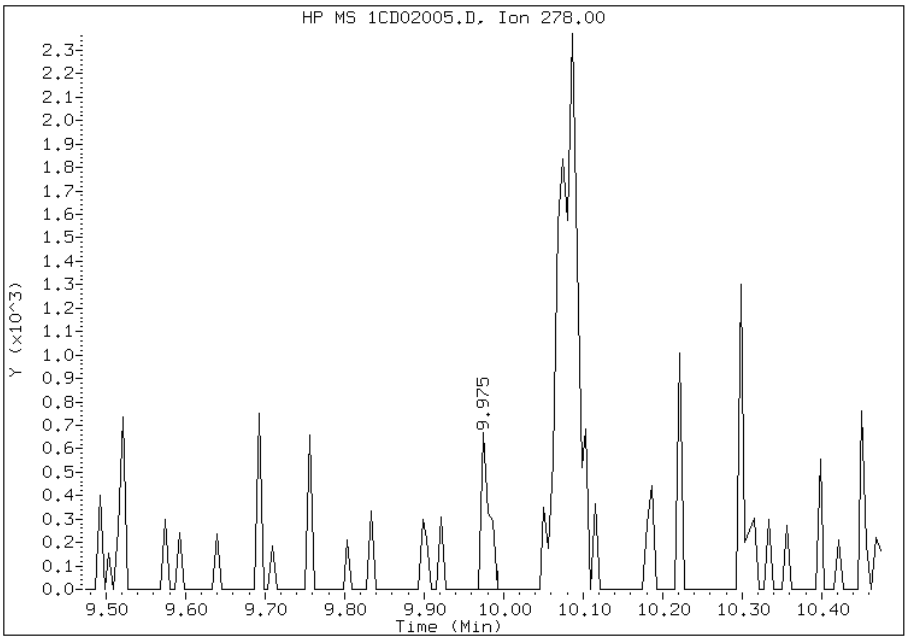
Processing Integration Results

RT: 9.97

Response: 454

Amount: 0

Conc: 0



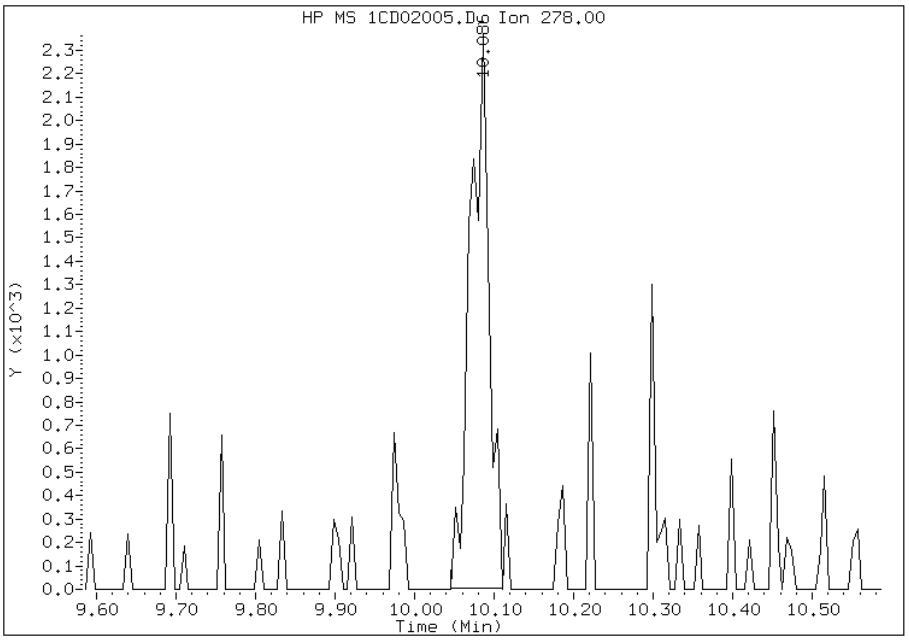
Manual Integration Results

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

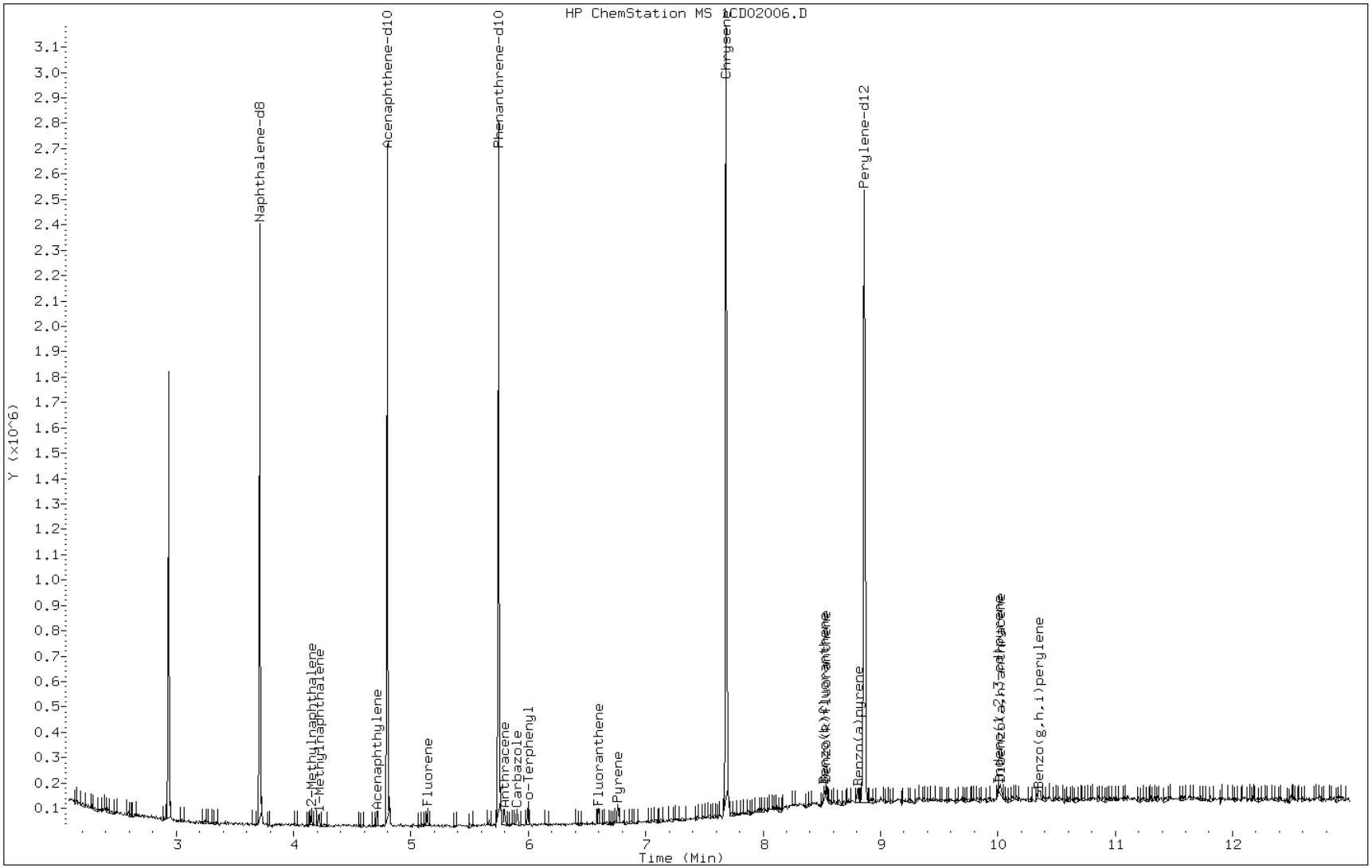
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

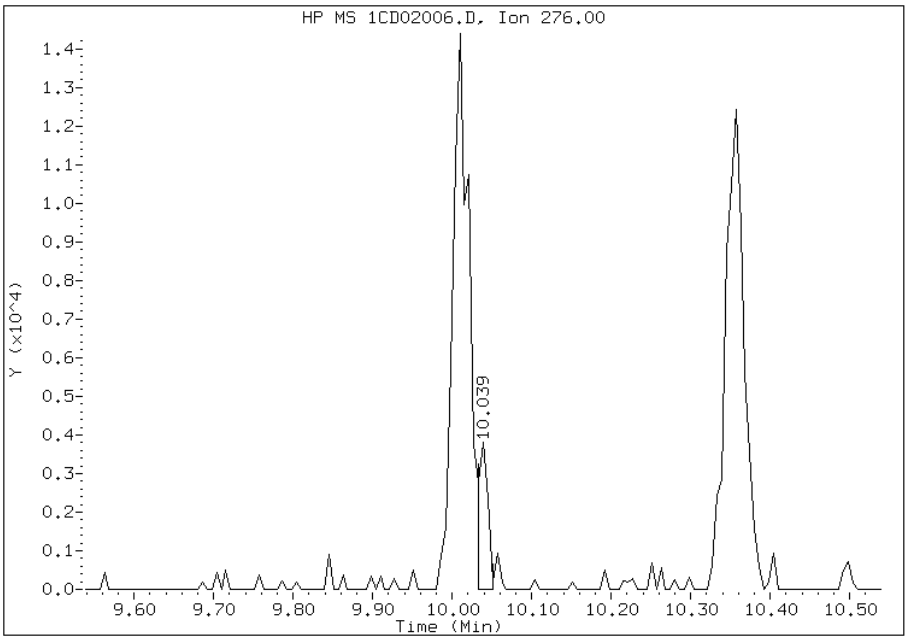
Processing Integration Results

RT: 10.04

Response: 3225

Amount: 0

Conc: 0



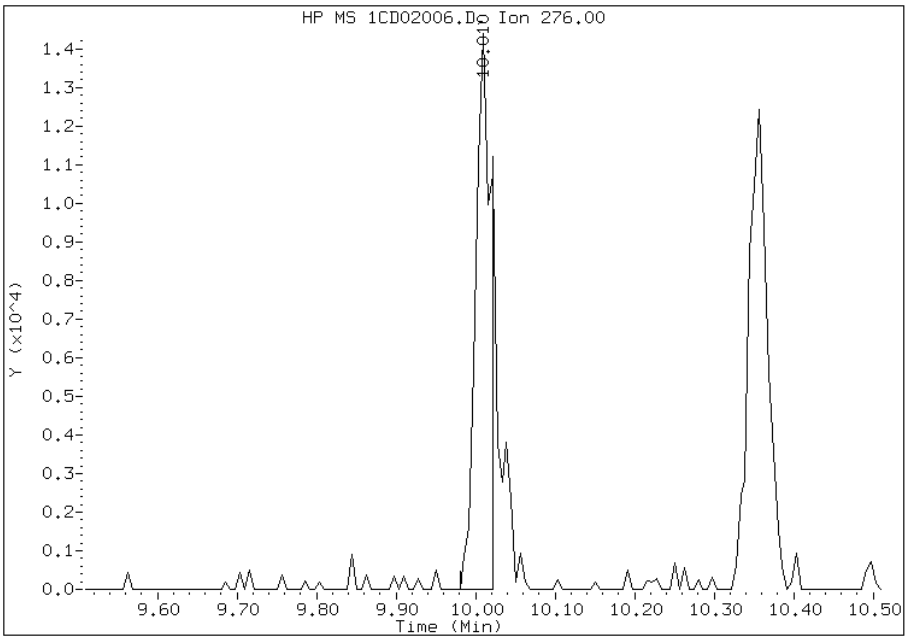
Manual Integration Results

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

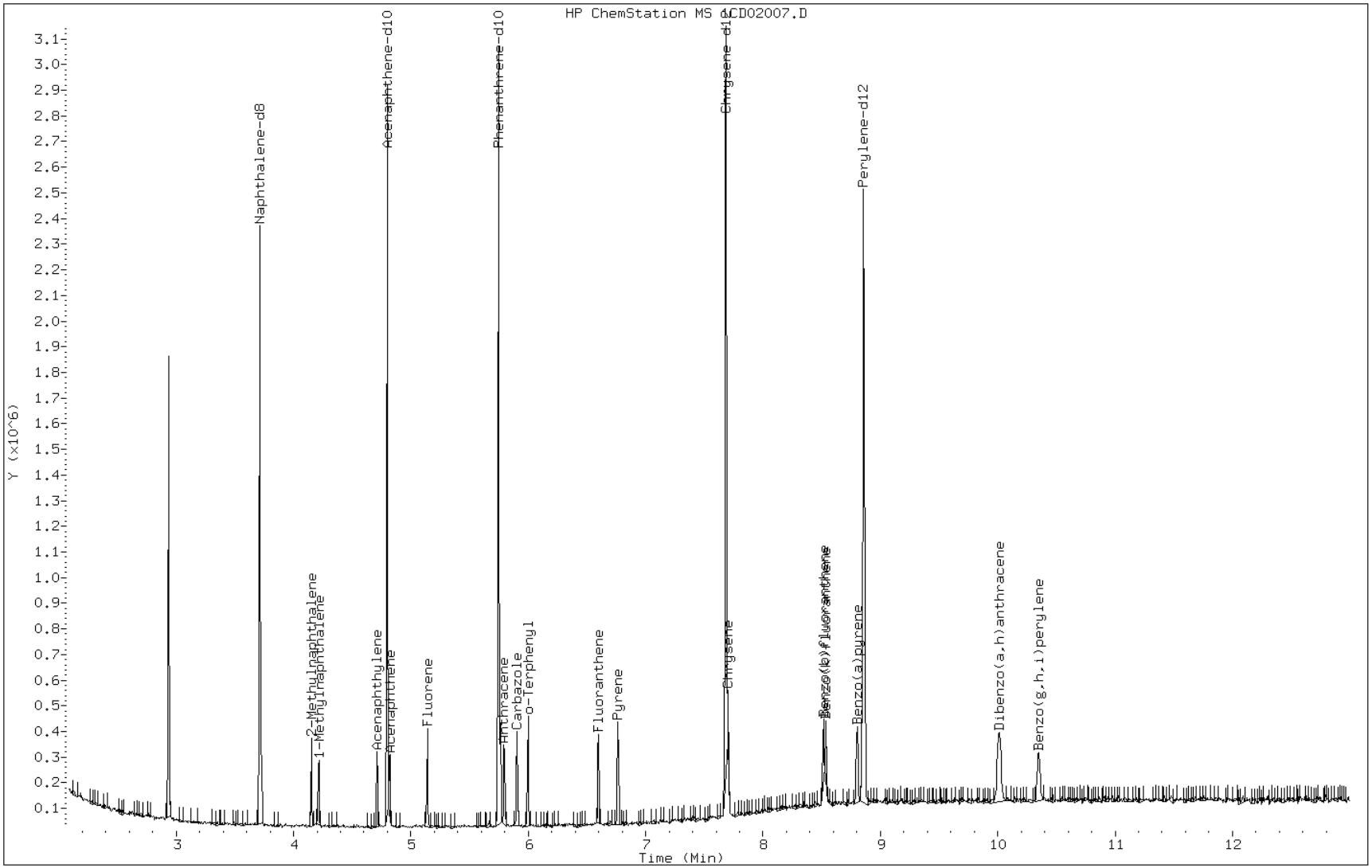
Date: 02-APR-2013 14:02

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

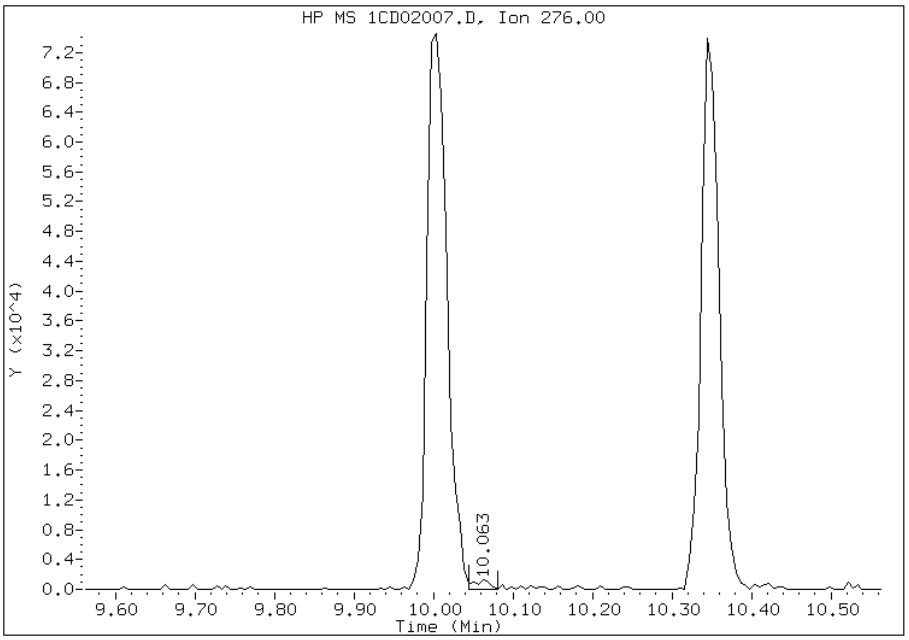
Processing Integration Results

RT: 10.06

Response: 1809

Amount: 0

Conc: 0



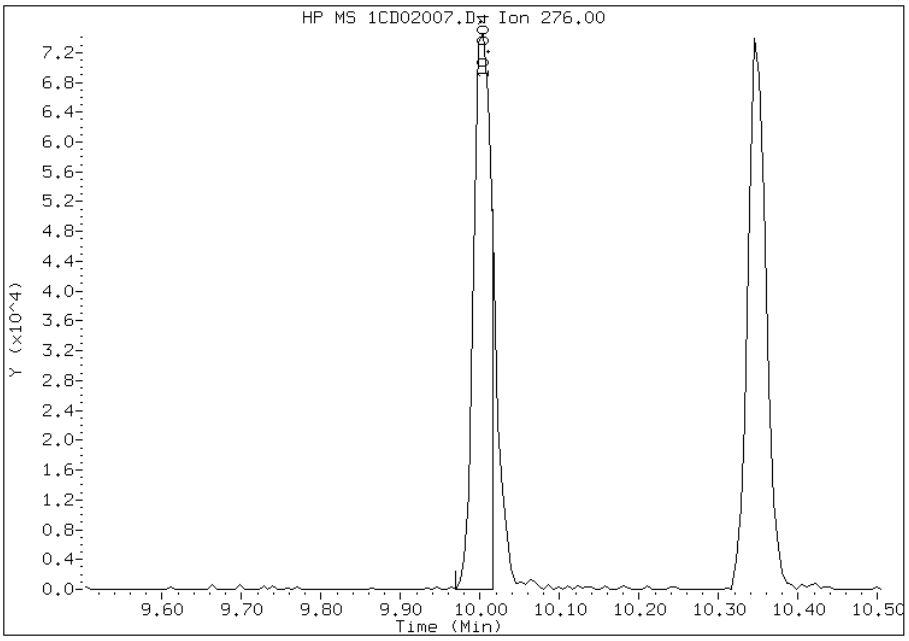
Manual Integration Results

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

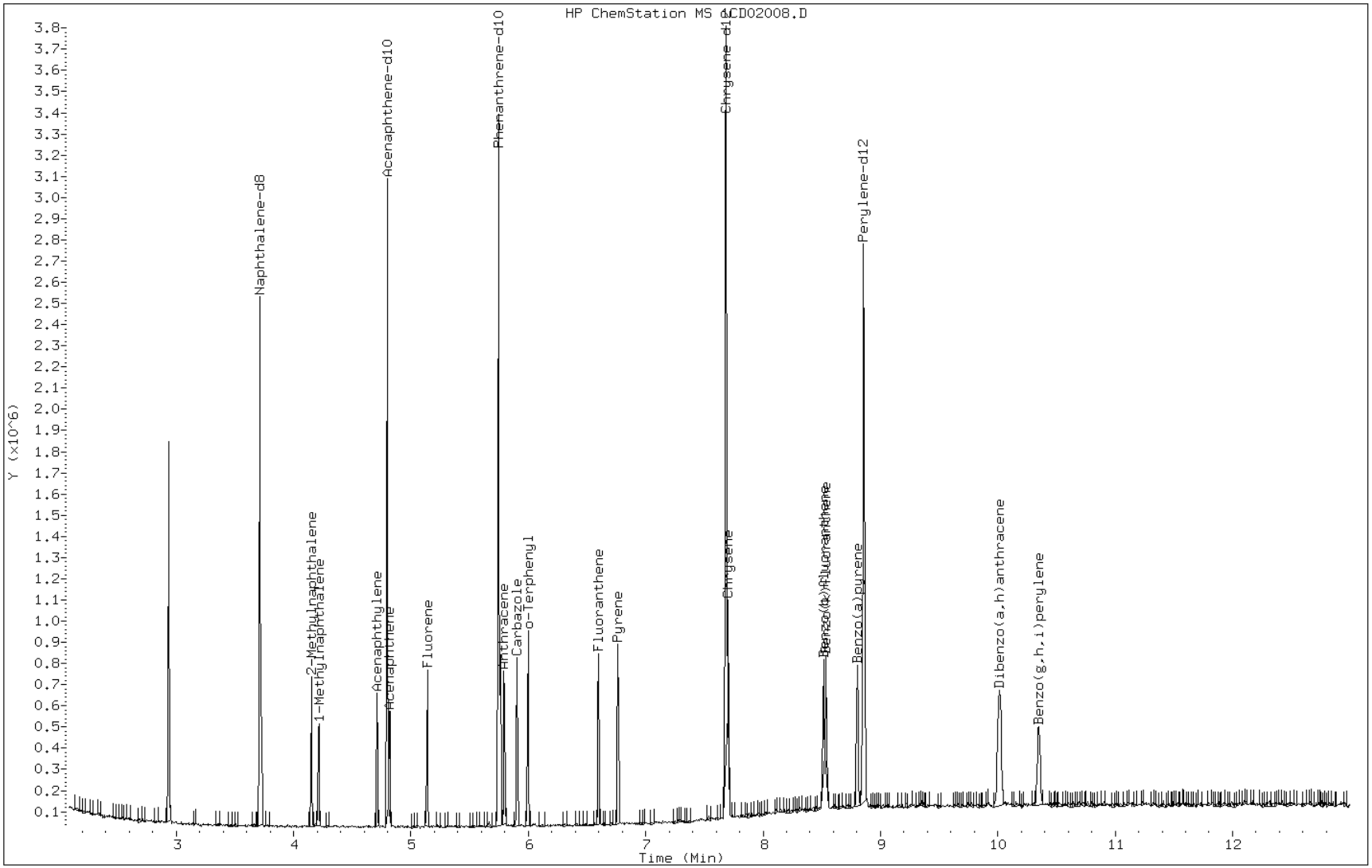
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

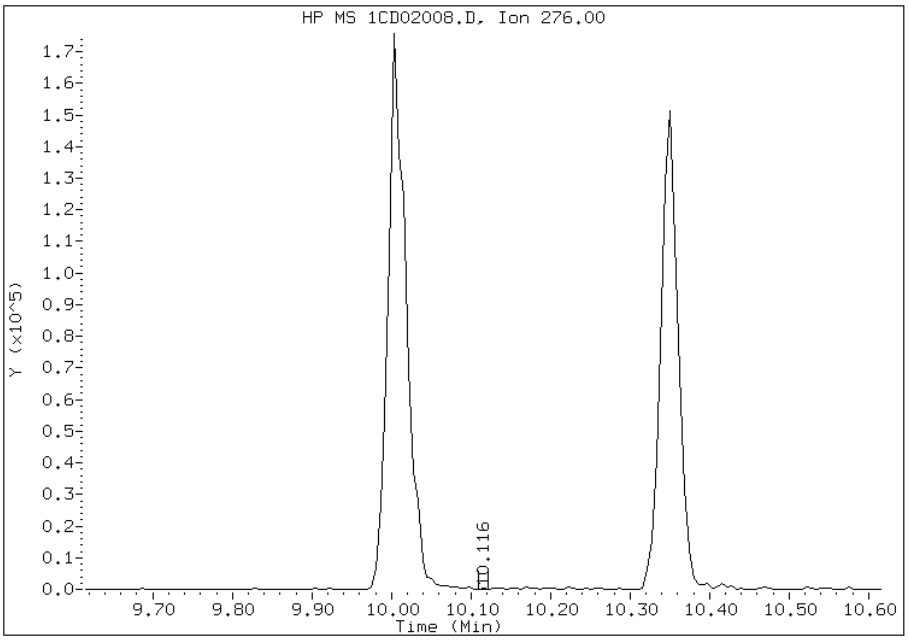
Processing Integration Results

RT: 10.12

Response: 142

Amount: 0

Conc: 0



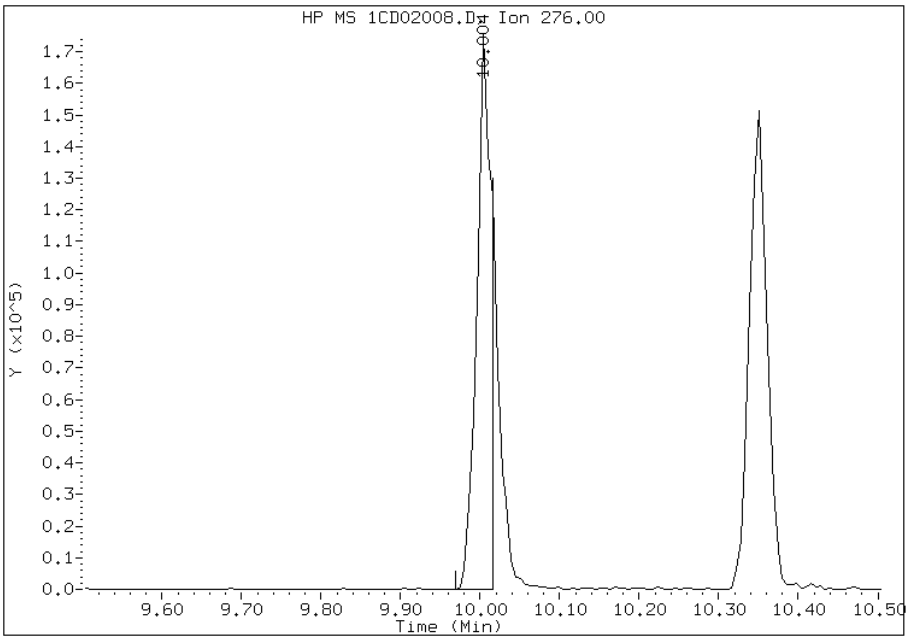
Manual Integration Results

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

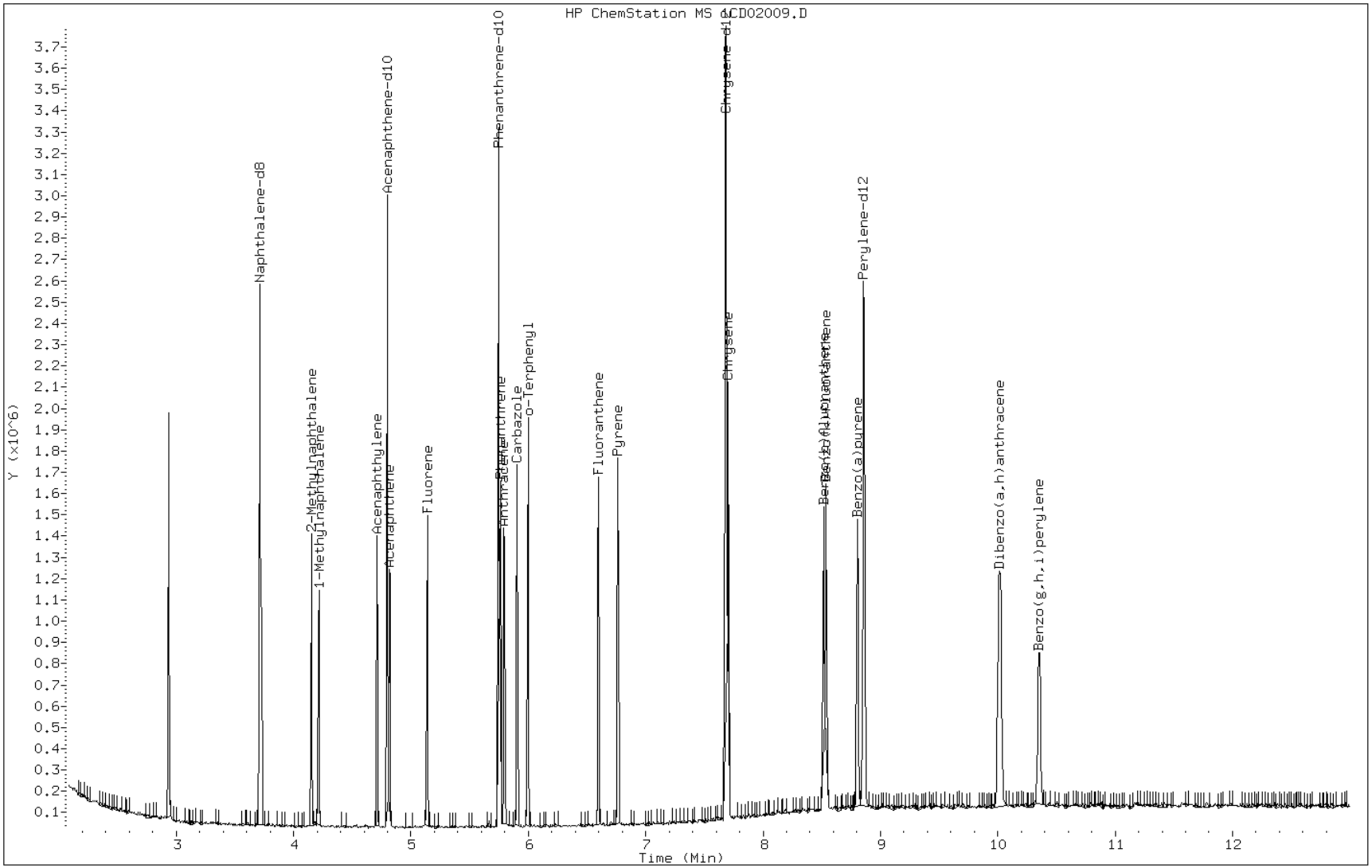
M - Compound response manually integrated.

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

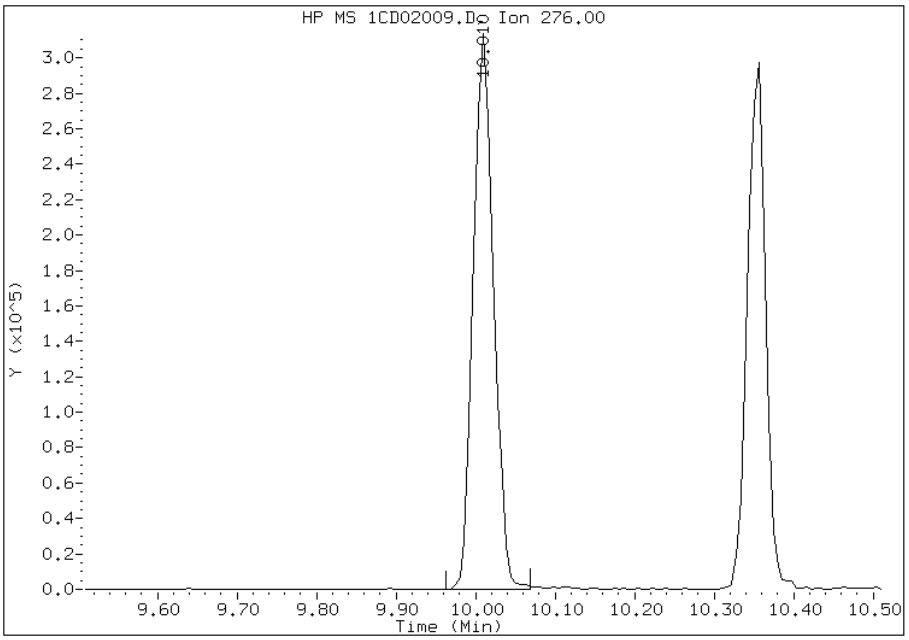
Processing Integration Results

RT: 10.01

Response: 550558

Amount: 32

Conc: 32



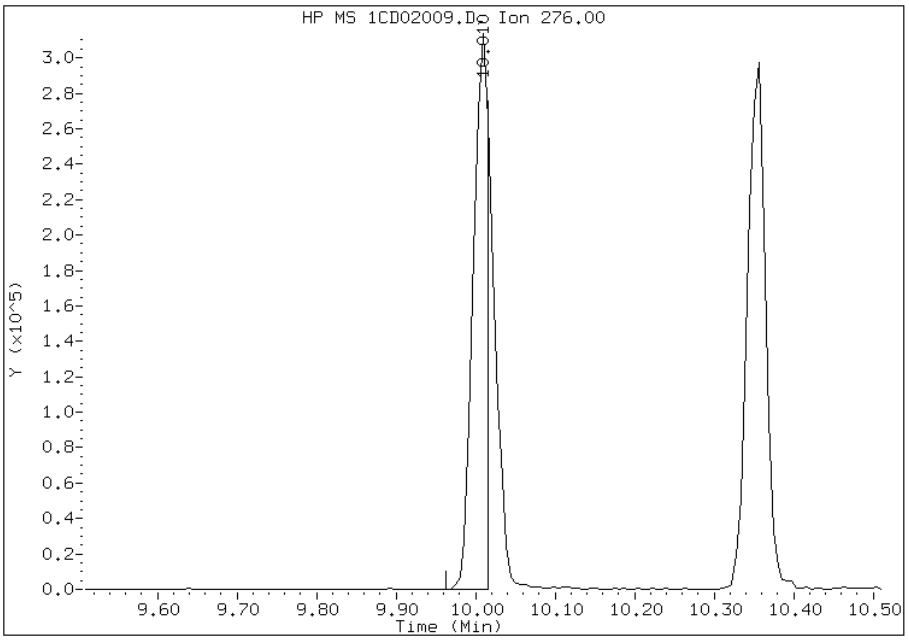
Manual Integration Results

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

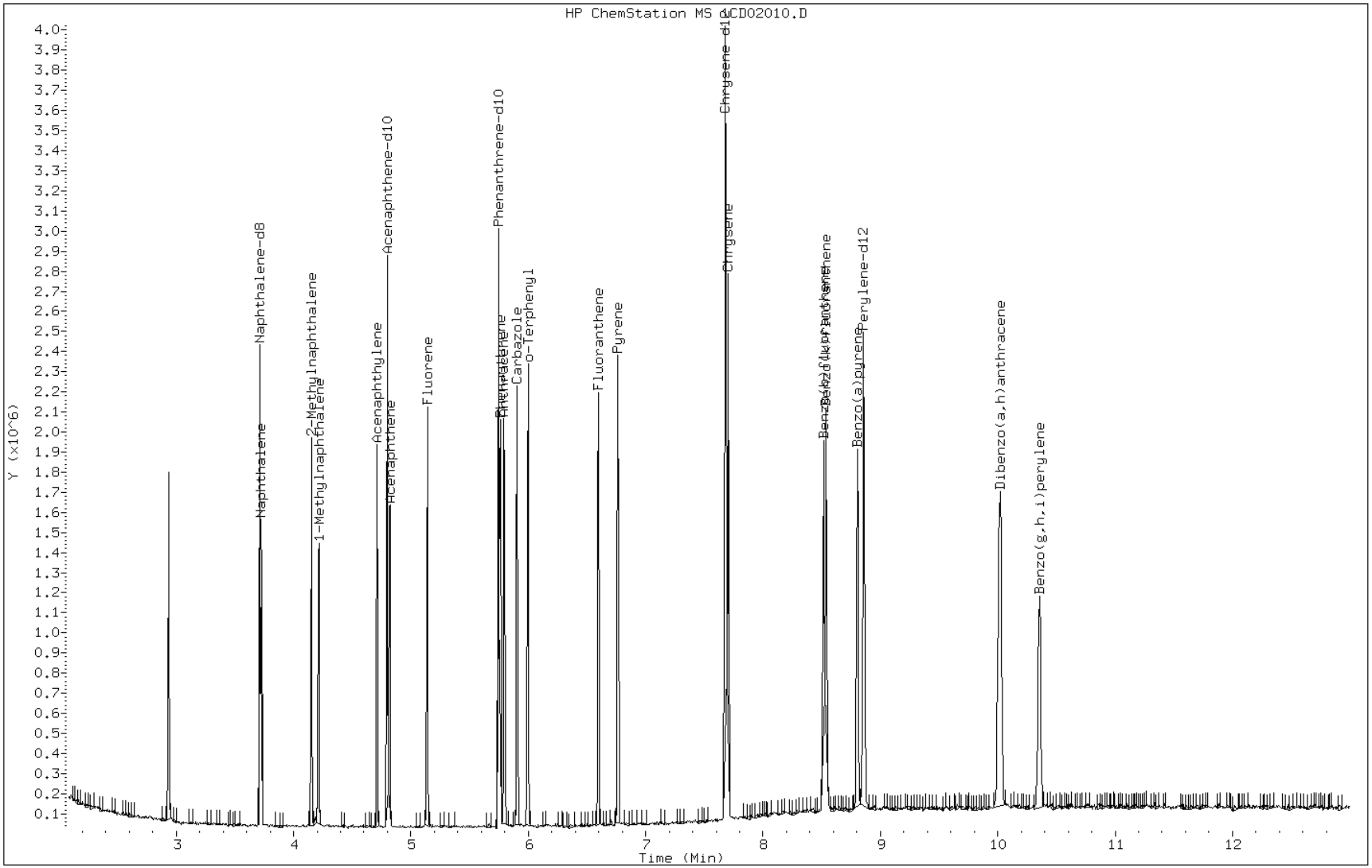
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

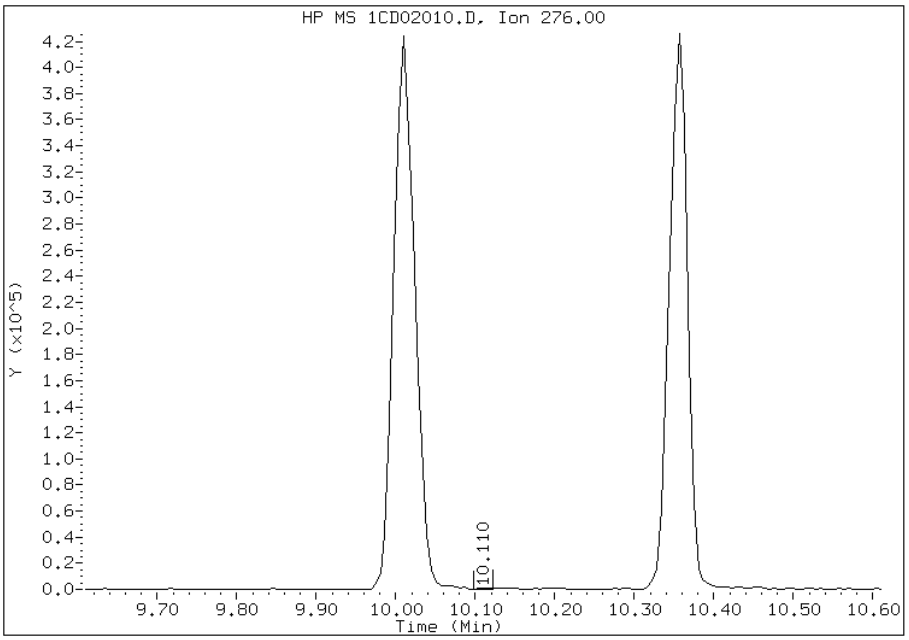
Processing Integration Results

RT: 10.11

Response: 1008

Amount: 0

Conc: 0



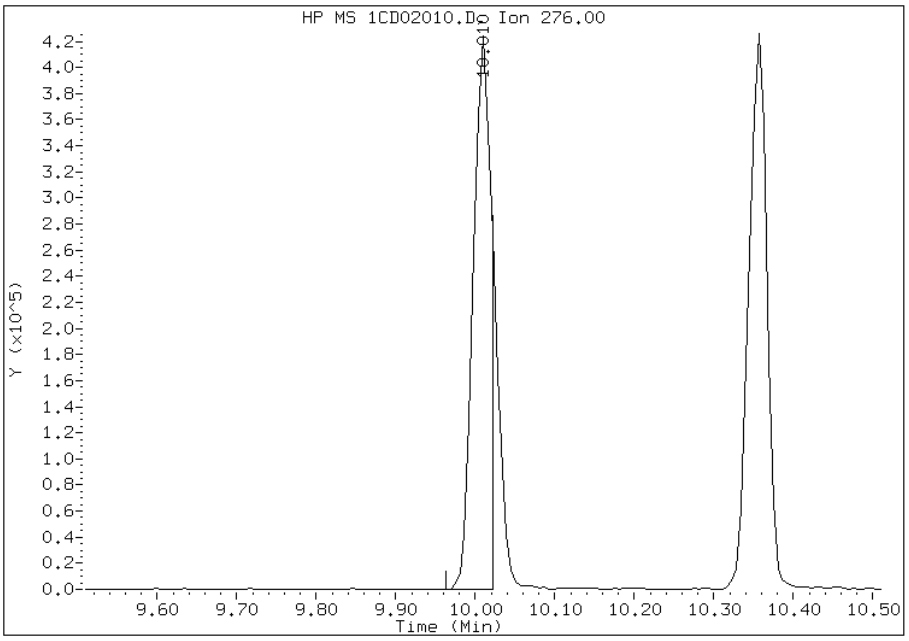
Manual Integration Results

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

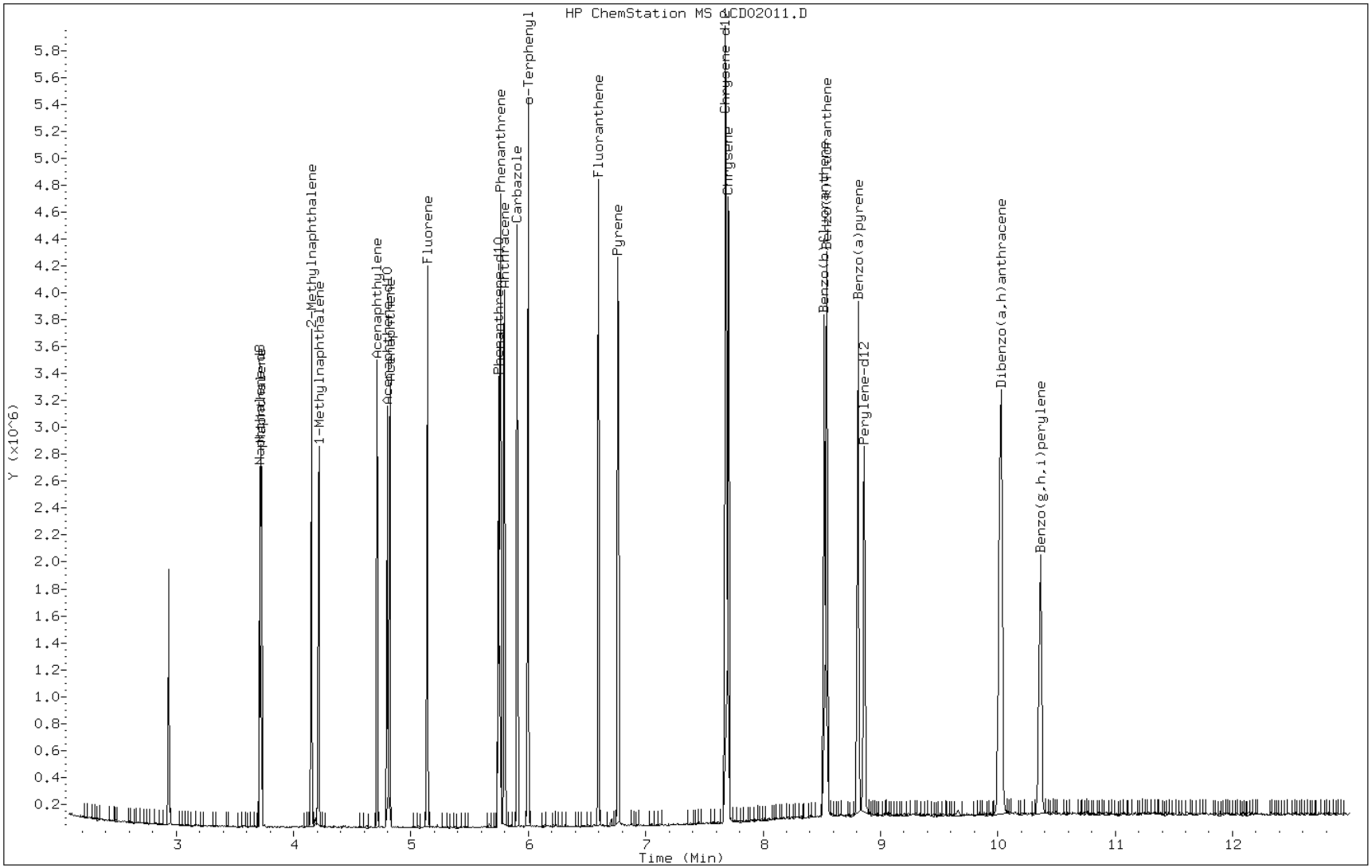
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

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

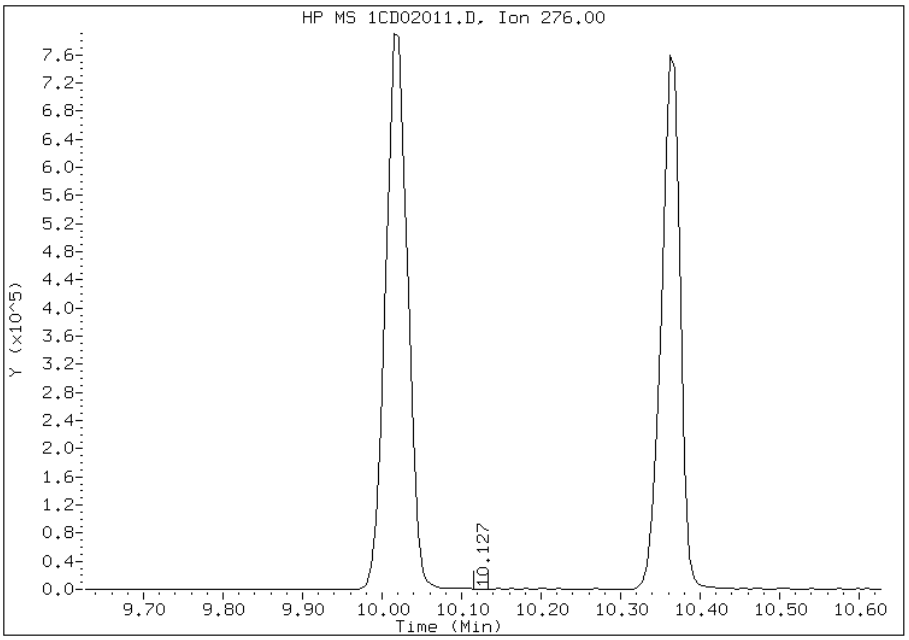
Processing Integration Results

RT: 10.13

Response: 653

Amount: 0

Conc: 0



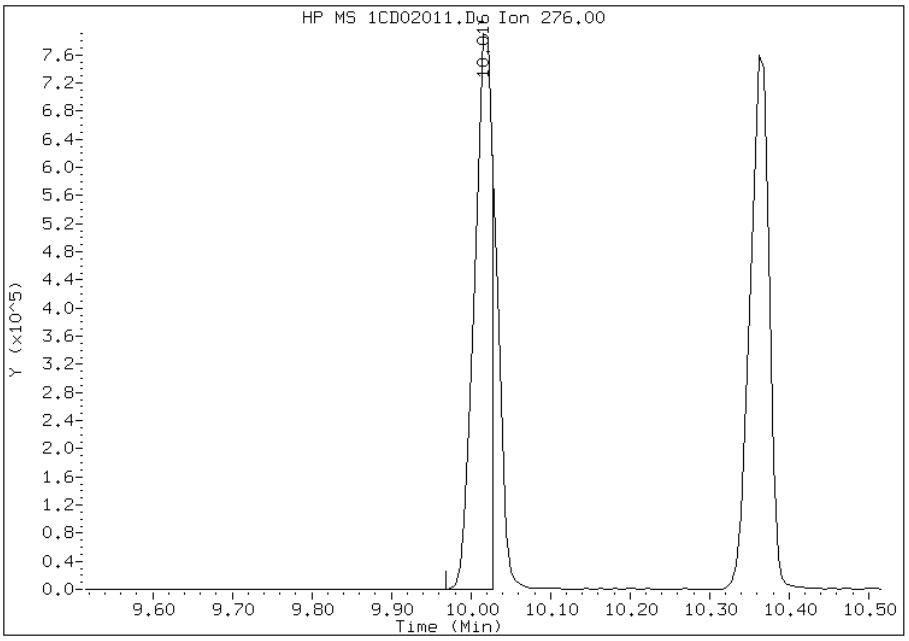
Manual Integration Results

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 VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88767-3

SDG No.: 68088767-3

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

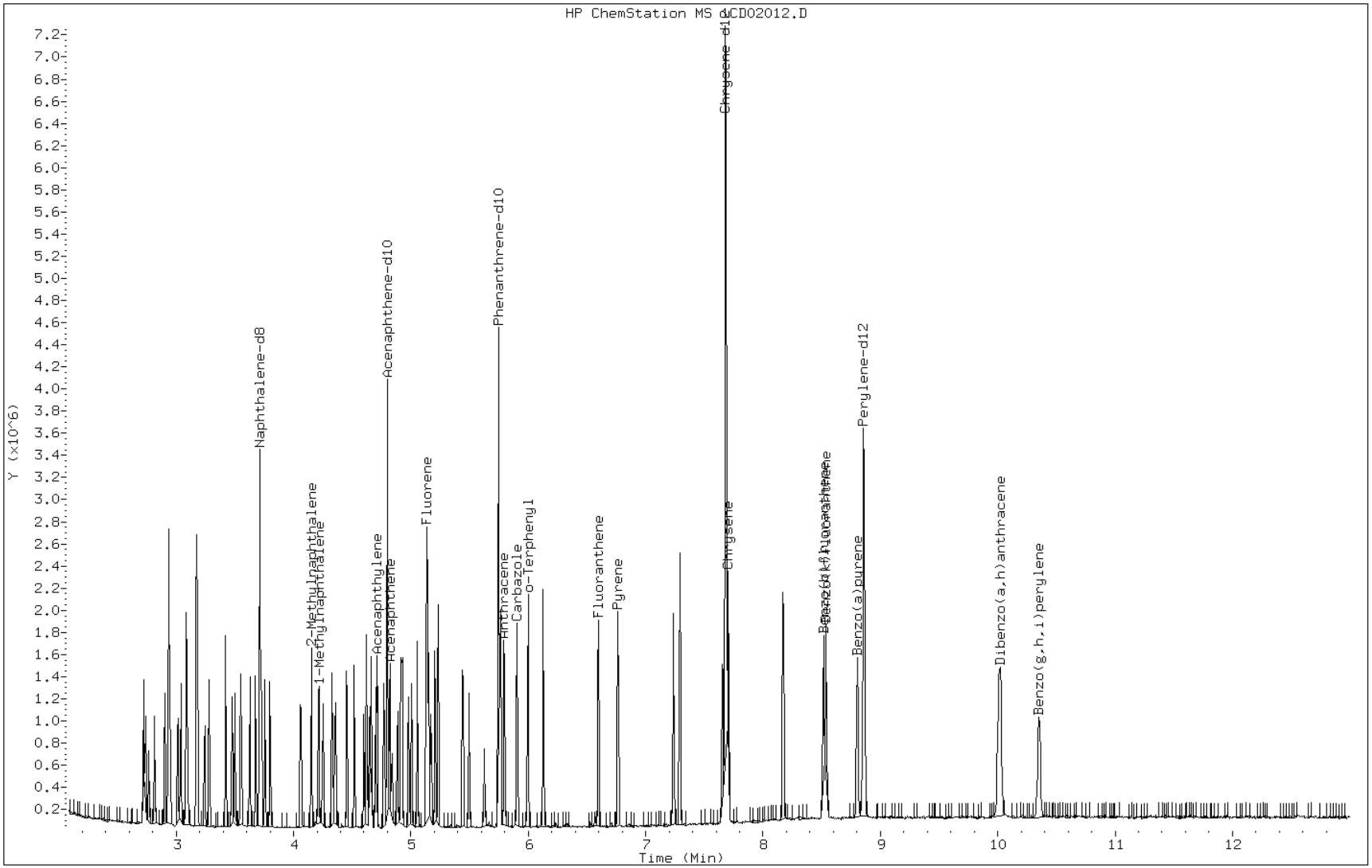
Date: 02-APR-2013 15:34

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

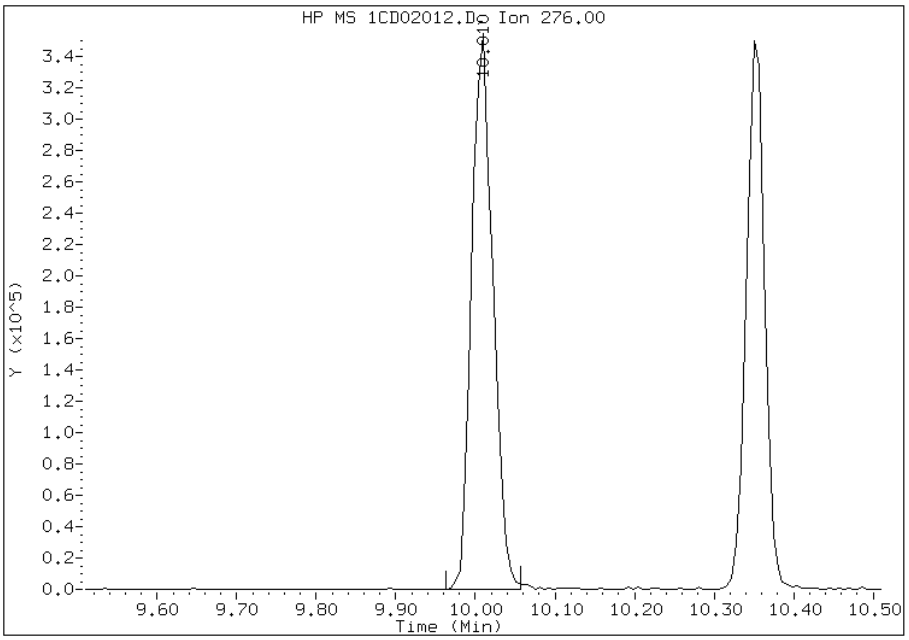
Processing Integration Results

RT: 10.01

Response: 653584

Amount: 20

Conc: 20



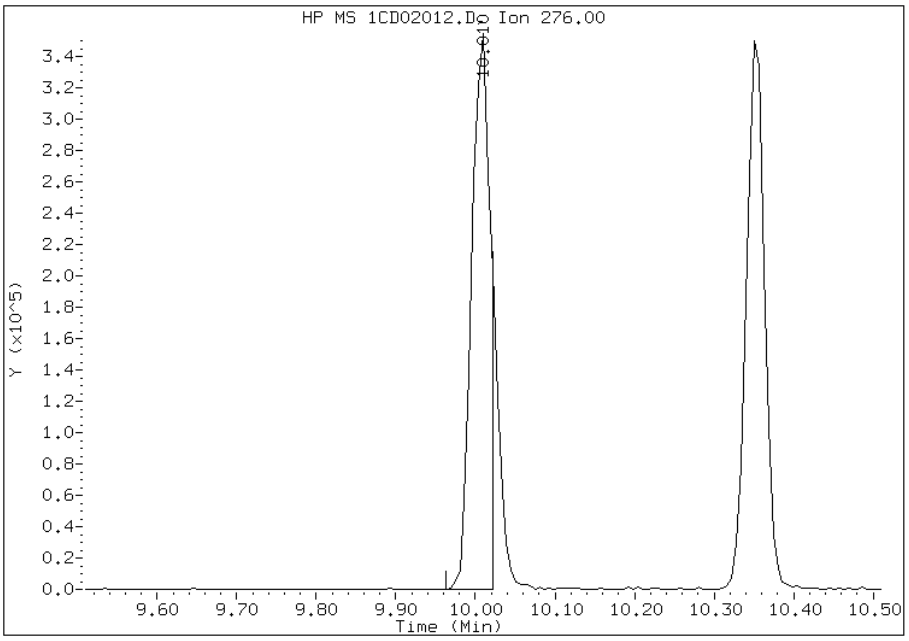
Manual Integration Results

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.: 680-88767-3

SDG No.: 68088767-3

Lab Sample ID: CCVIS 660-136171/4 Calibration Date: 04/05/2013 12:15

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: 1CD05004.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	1.032	0.0000	20100	20000	0.5	20.0
2-Methylnaphthalene	Ave	0.6994	0.7098	0.0000	20300	20000	1.5	20.0
1-Methylnaphthalene	Ave	0.6293	0.6324	0.0000	20100	20000	0.5	20.0
Acenaphthylene	Ave	1.656	1.686	0.0000	20400	20000	1.8	20.0
Acenaphthene	Lin	1.025	0.9558	0.0000	18600	20000	-6.8	20.0
Fluorene	Ave	1.367	1.254	0.0000	18400	20000	-8.2	20.0
Phenanthrene	Ave	1.165	1.127	0.0000	19400	20000	-3.2	20.0
Anthracene	Ave	1.181	1.206	0.0000	20400	20000	2.1	20.0
Carbazole	Ave	1.012	1.040	0.0000	20600	20000	2.8	20.0
Fluoranthene	Ave	1.287	1.346	0.0000	20900	20000	4.6	20.0
Pyrene	Ave	1.108	1.077	0.0000	19400	20000	-2.8	20.0
Benzo[a]anthracene	Lin	1.278	1.101	0.0000	19100	20000	-4.3	20.0
Chrysene	Ave	1.140	1.074	0.0000	18800	20000	-5.8	20.0
Benzo[b]fluoranthene	Ave	1.131	1.071	0.0000	18900	20000	-5.3	20.0
Benzo[k]fluoranthene	Ave	1.094	1.162	0.0000	21300	20000	6.3	20.0
Benzo[a]pyrene	Ave	1.065	1.057	0.0000	19900	20000	-0.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	0.9896	0.0000	19600	20000	-2.1	20.0
Dibenz(a,h)anthracene	Ave	0.9341	0.9614	0.0000	20600	20000	2.9	20.0
Benzo[g,h,i]perylene	Ave	1.032	0.9820	0.0000	19000	20000	-4.9	20.0
o-Terphenyl	Lin	0.6233	0.6473	0.0000	20600	20000	2.8	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05004.D
Lab Smp Id: CCVIS-1531401
Inj Date : 05-APR-2013 12:15
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m
Meth Date : 05-Apr-2013 12:31 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	3.692	3.692	(1.000)	392528	40.0000	
* 6 Acenaphthene-d10	164	4.780	4.780	(1.000)	289150	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	539578	40.0000	(H)
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	174628	20.0000	20.5532
* 18 Chrysene-d12	240	7.662	7.662	(1.000)	739705	40.0000	
* 23 Perylene-d12	264	8.827	8.827	(1.000)	746693	40.0000	(H)
2 Naphthalene	128	3.704	3.704	(1.003)	202593	20.0000	20.0945
3 2-Methylnaphthalene	142	4.133	4.133	(1.119)	139304	20.0000	20.2978
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	124123	20.0000	20.0997
5 Acenaphthylene	152	4.692	4.692	(0.982)	243681	20.0000	20.3623
7 Acenaphthene	154	4.798	4.798	(1.004)	138184	20.0000	18.6430
9 Fluorene	166	5.116	5.116	(1.070)	181351	20.0000	18.3533
11 Phenanthrene	178	5.739	5.739	(1.003)	304115	20.0000	19.3518(H)
12 Anthracene	178	5.774	5.774	(1.009)	325239	20.0000	20.4162(H)
13 Carbazole	167	5.880	5.880	(1.028)	280645	20.0000	20.5626(H)
15 Fluoranthene	202	6.574	6.574	(1.149)	363056	20.0000	20.9190(H)
16 Pyrene	202	6.739	6.739	(0.879)	398242	20.0000	19.4355
17 Benzo(a)anthracene	228	7.651	7.651	(0.998)	407283	20.0000	19.1383
19 Chrysene	228	7.680	7.680	(1.002)	397270	20.0000	18.8472
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	399687	20.0000	18.9338(H)
21 Benzo(k)fluoranthene	252	8.509	8.509	(0.964)	433951	20.0000	21.2545(H)
22 Benzo(a)pyrene	252	8.774	8.774	(0.994)	394530	20.0000	19.8513(H)
24 Indeno(1,2,3-cd)pyrene	276	9.962	9.962	(1.129)	369463	20.0000	19.5723(MH)
25 Dibenzo(a,h)anthracene	278	9.980	9.980	(1.131)	358939	20.0000	20.5841(H)
26 Benzo(g,h,i)perylene	276	10.303	10.303	(1.167)	366622	20.0000	19.0294(H)

QC Flag Legend

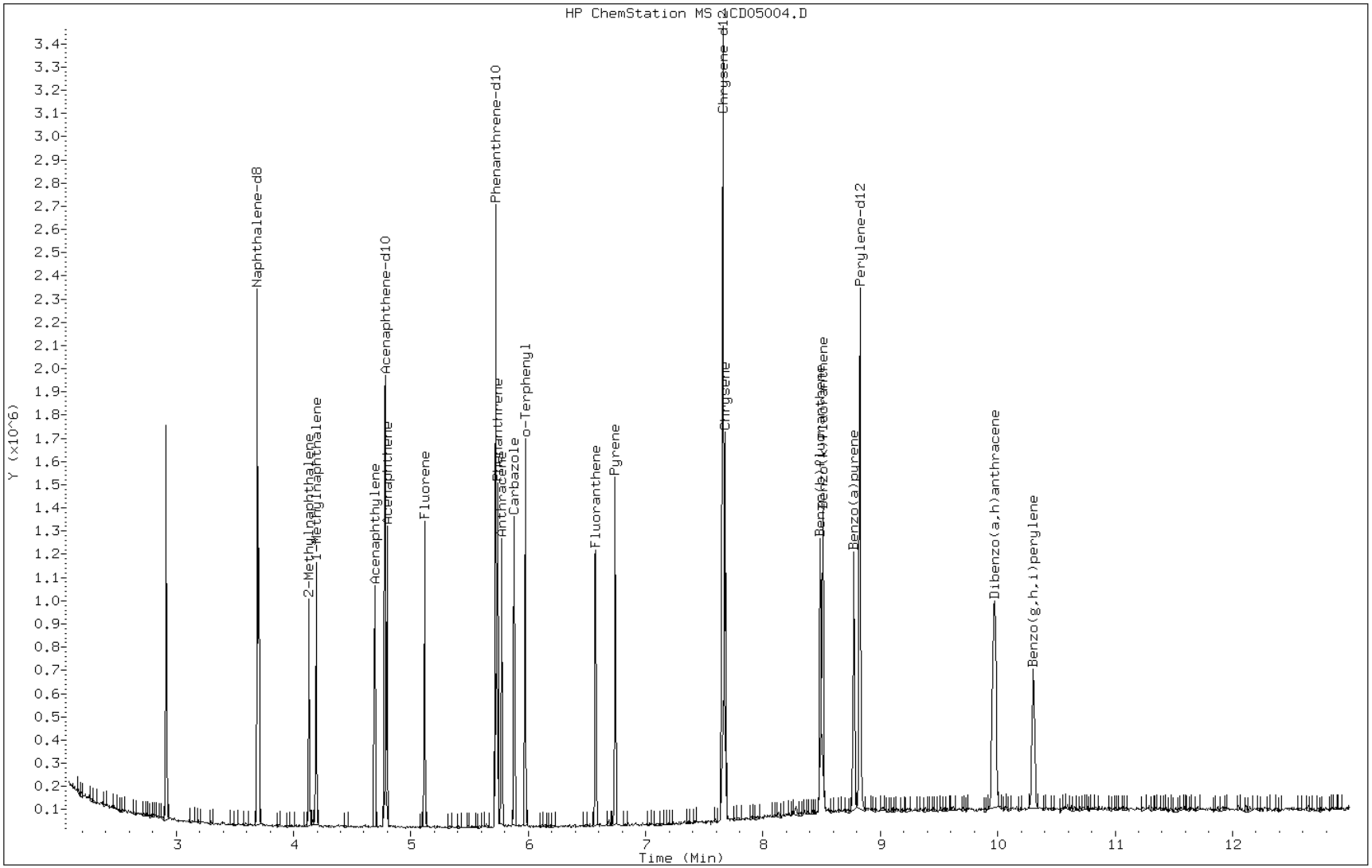
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD05004.D

Date: 05-APR-2013 12:15

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1CD05004.D
Inj. Date and Time: 05-APR-2013 12:15
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

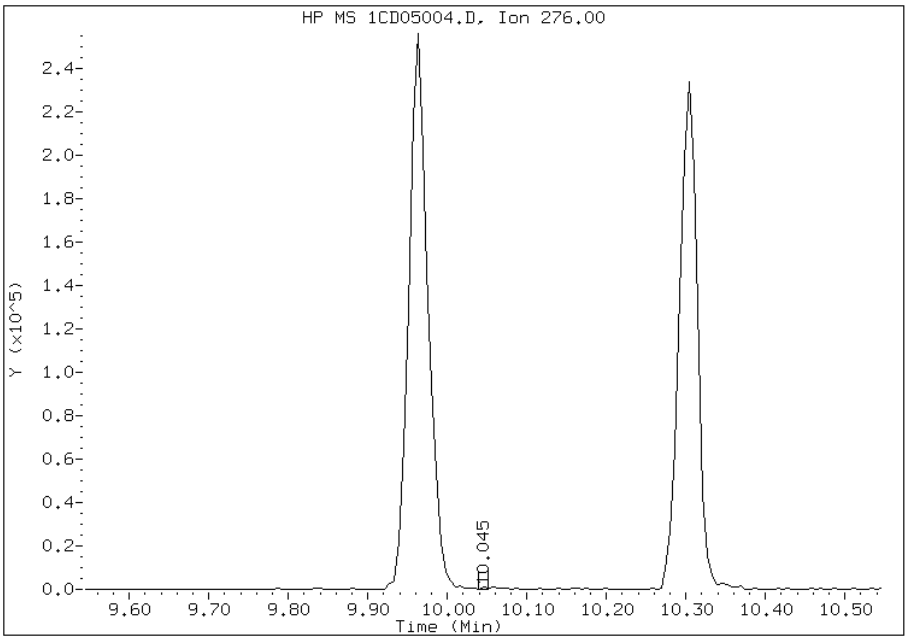
Processing Integration Results

RT: 10.05

Response: 614

Amount: 0

Conc: 0



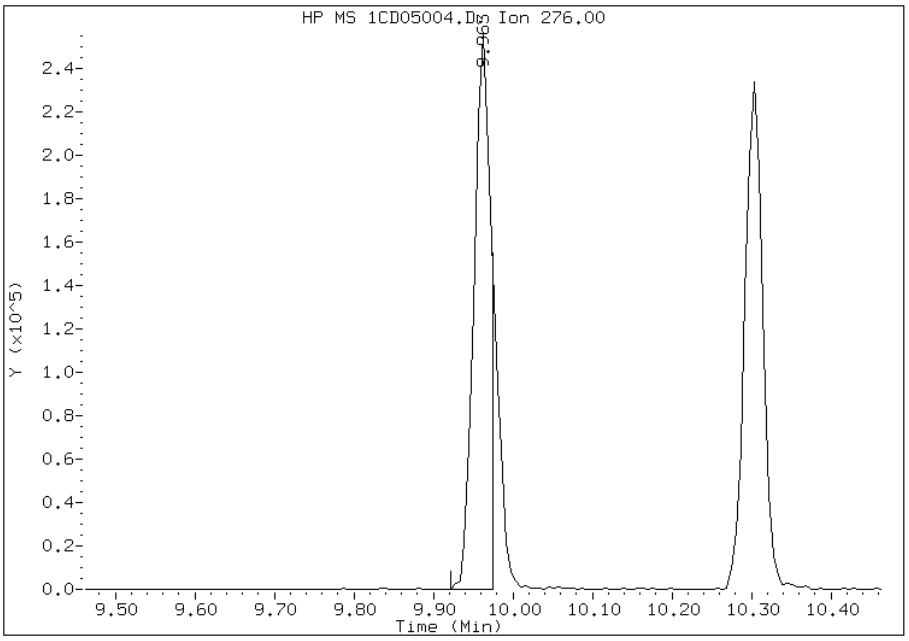
Manual Integration Results

RT: 9.96

Response: 369463

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:33
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

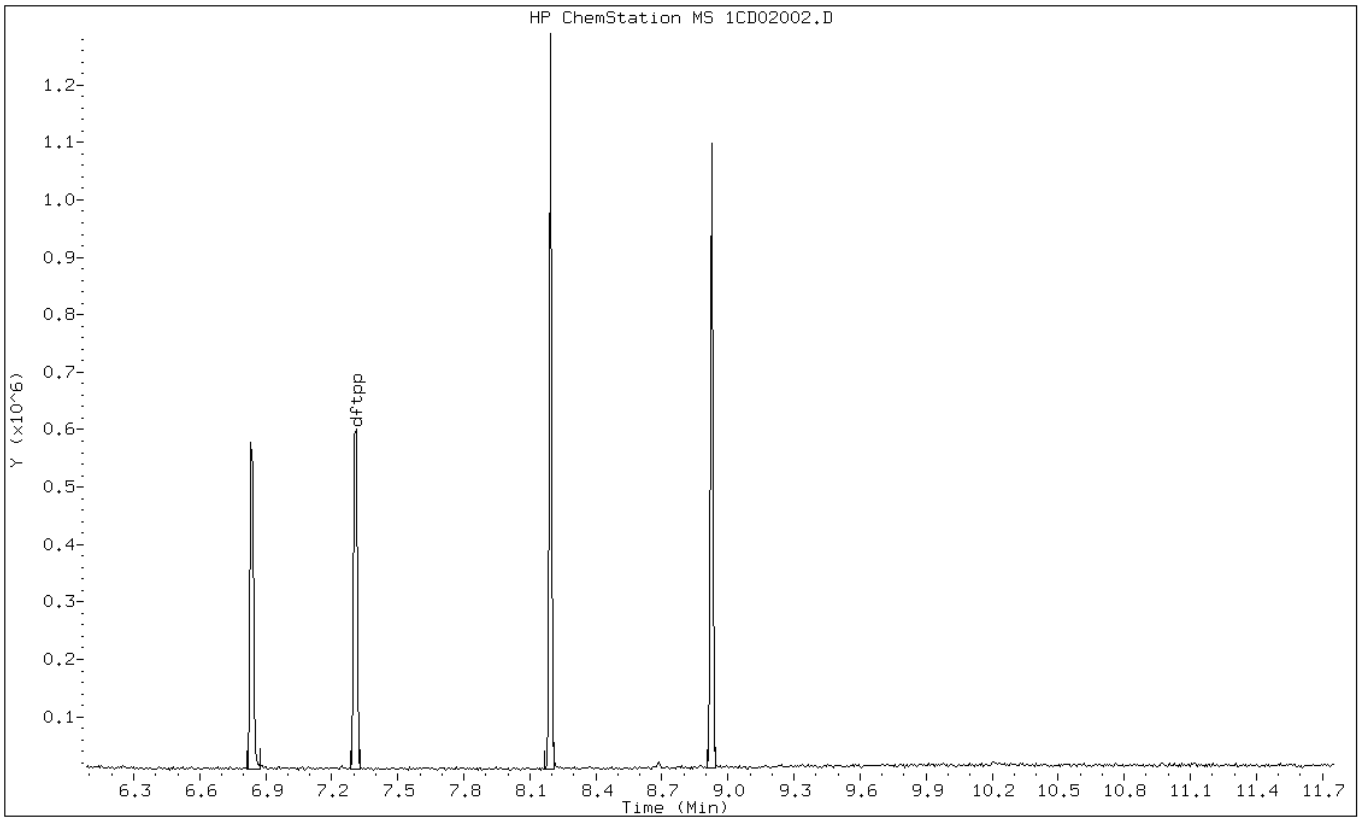
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.310	7.469	-0.159	198	70432			50.00- 0.00	100.00
7.310	7.469	-0.159	51	24576			10.00- 80.00	34.89
7.310	7.469	-0.159	68	571			0.00- 2.00	1.62
7.310	7.469	-0.159	69	35176			0.00- 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



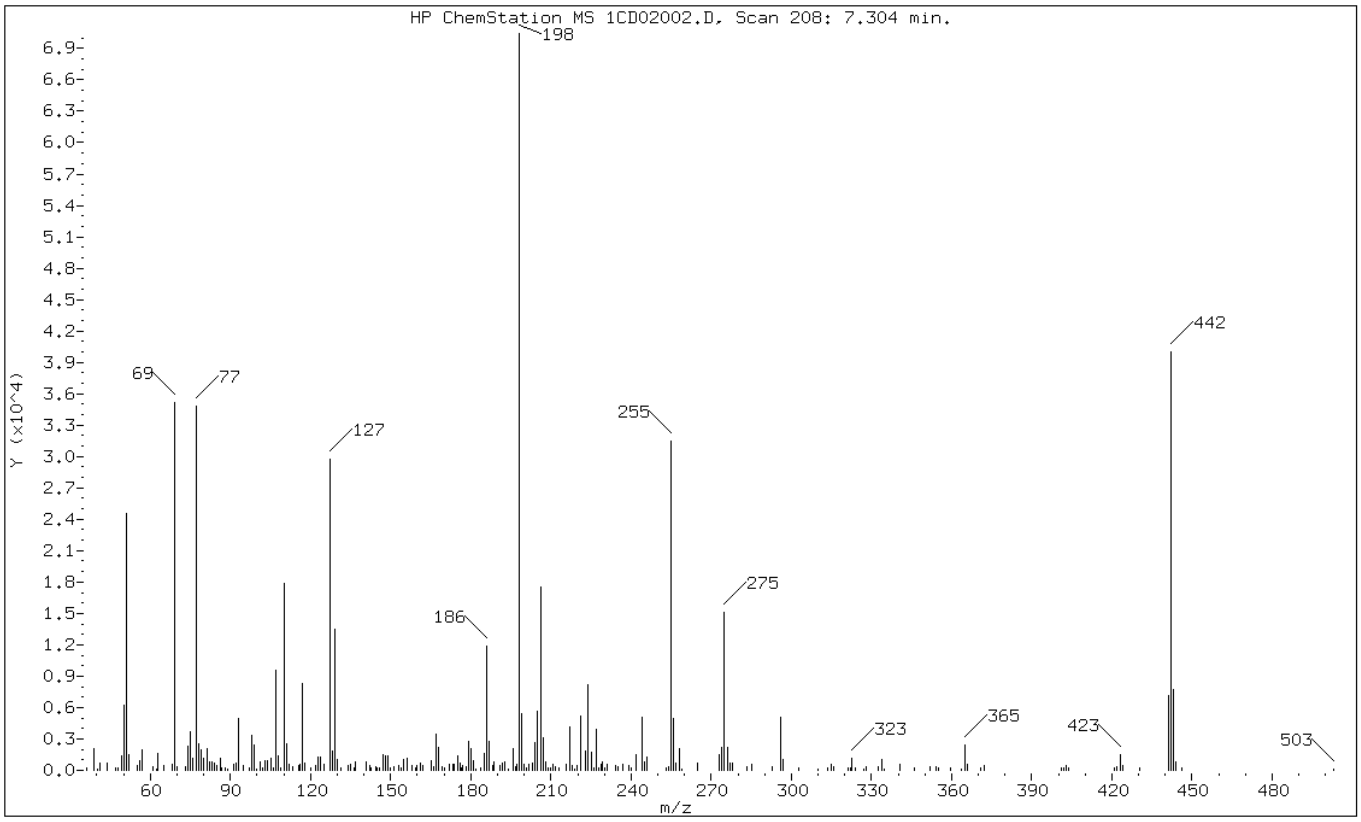
Data File: 1CD02002.D

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\1C040513.b\1CD05003.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 05-APR-2013 11:57
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.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		
7.286	7.469	-0.183	198	70588			50.00- 0.00	100.00
7.286	7.469	-0.183	51	29336			10.00- 80.00	41.56
7.286	7.469	-0.183	68	565			0.00- 2.00	1.45
7.286	7.469	-0.183	69	39020			0.00- 0.00	55.28
7.286	7.469	-0.183	70	218			0.00- 2.00	0.56
7.286	7.469	-0.183	127	34576			10.00- 80.00	48.98
7.286	7.469	-0.183	197	438			0.00- 2.00	0.62
7.286	7.469	-0.183	442	39248			50.00- 0.00	55.60
7.286	7.469	-0.183	199	4704			5.00- 9.00	6.66
7.286	7.469	-0.183	275	13612			10.00- 60.00	19.28
7.286	7.469	-0.183	365	2087			1.00- 0.00	2.96
7.286	7.469	-0.183	441	5332			0.01- 99.99	64.58
7.286	7.469	-0.183	443	8257			15.00- 24.00	21.04

Data File: 1CD05003.D

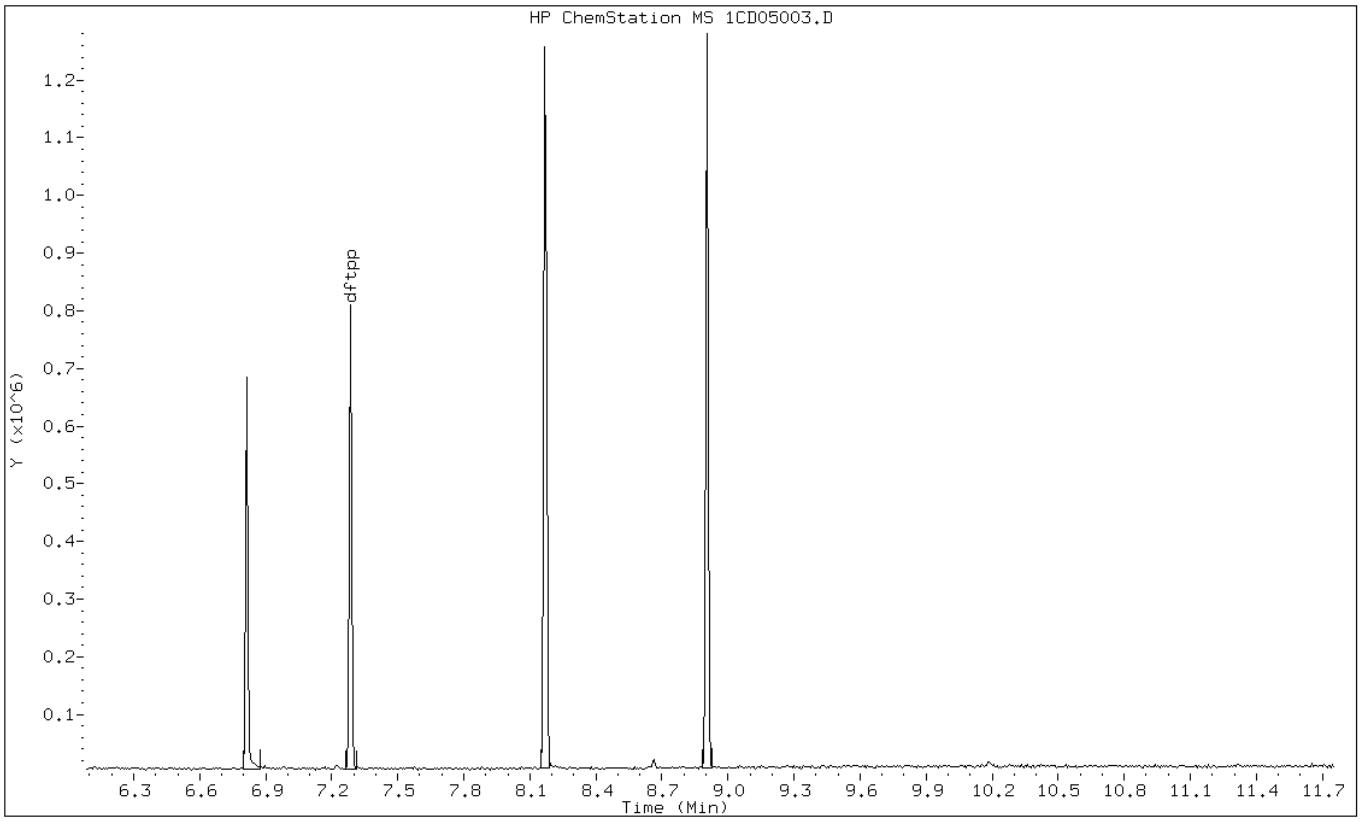
Date: 05-APR-2013 11:57

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



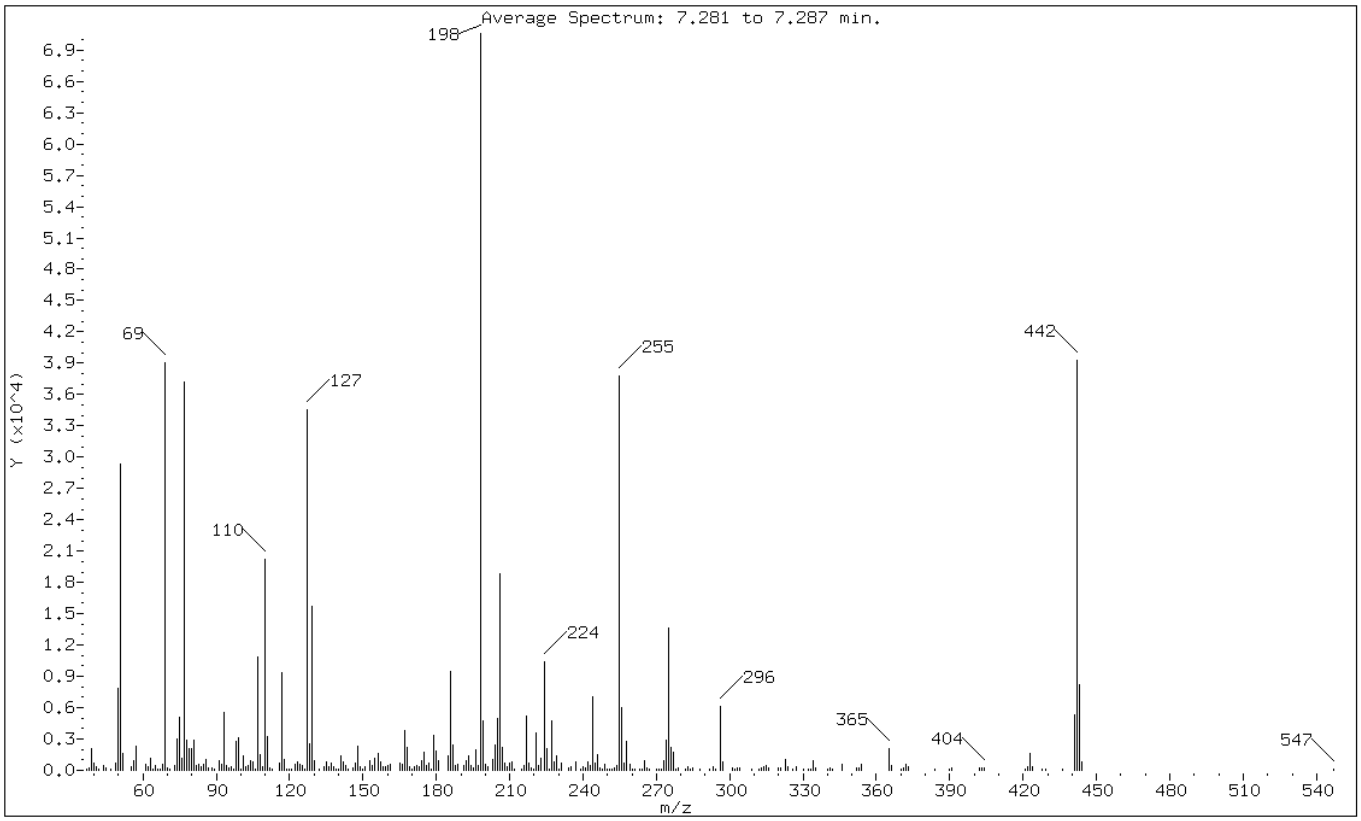
Data File: 1CD05003.D

Date: 05-APR-2013 11:57

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	41.56
68	Less than 2.00% of mass 69	0.80 (1.45)
69	Mass 69 relative abundance	55.28
70	Less than 2.00% of mass 69	0.31 (0.56)
127	10.00 - 80.00% of mass 198	48.98
197	Less than 2.00% of mass 198	0.62
442	Greater than 50.00% of mass 198	55.60
199	5.00 - 9.00% of mass 198	6.66
275	10.00 - 60.00% of mass 198	19.28
365	Greater than 1.00% of mass 198	2.96
441	Present, but less than mass 443	7.55
443	15.00 - 24.00% of mass 442	11.70 (21.04)

Data File: 1CD05003.D

Date: 05-APR-2013 11:57

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05003.D
Spectrum: Average Spectrum: 7.281 to 7.287 min.
Location of Maximum: 198.00
Number of points: 272

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	87	118.00	1005	198.00	70584	277.00	1778
38.00	215	119.00	77	199.00	4704	278.00	123
39.00	2084	120.00	109	200.00	535	279.00	249
40.00	685	121.00	95	201.00	377	282.00	110
41.00	373	122.00	557	203.00	1061	283.00	366
42.00	99	123.00	824	204.00	2377	284.00	78
44.00	466	124.00	525	205.00	4989	285.00	223
45.00	227	125.00	459	206.00	18816	288.00	110
47.00	162	126.00	156	207.00	2185	292.00	134
49.00	724	127.00	34576	208.00	693	293.00	289
50.00	7845	128.00	2580	209.00	314	294.00	163
51.00	29336	129.00	15715	210.00	666	296.00	6099
52.00	1655	130.00	920	211.00	776	297.00	790
55.00	364	132.00	129	212.00	124	301.00	224
56.00	896	134.00	387	215.00	121	302.00	162
57.00	2300	135.00	780	216.00	407	303.00	275
61.00	566	136.00	313	217.00	5252	304.00	252
62.00	316	137.00	703	218.00	694	309.00	166
63.00	1159	138.00	398	219.00	258	312.00	119
64.00	78	139.00	81	220.00	136	313.00	204
65.00	468	140.00	81	221.00	3530	314.00	309
66.00	82	141.00	1344	222.00	504	315.00	458
67.00	138	142.00	755	223.00	1120	316.00	213
68.00	565	143.00	438	224.00	10390	320.00	205
69.00	39016	144.00	75	225.00	2068	321.00	246
70.00	218	146.00	214	226.00	144	323.00	1081
71.00	79	147.00	650	227.00	4743	324.00	400
73.00	429	148.00	2309	228.00	766	326.00	99
74.00	3044	149.00	380	229.00	1355	327.00	399
75.00	5071	150.00	82	230.00	78	330.00	118
76.00	1173	151.00	300	231.00	697	332.00	99
77.00	37208	153.00	927	234.00	233	333.00	94
78.00	2848	154.00	467	235.00	309	334.00	919
79.00	2133	155.00	1200	237.00	759	335.00	218
80.00	2030	156.00	1561	239.00	78	340.00	87
81.00	2919	157.00	859	240.00	290	341.00	188
82.00	460	158.00	326	241.00	276	342.00	147
83.00	534	159.00	358	242.00	757	346.00	613
84.00	344	160.00	508	243.00	471	352.00	275
85.00	549	161.00	601	244.00	7050	353.00	186

86.00	1030	165.00	731	245.00	670	354.00	548
87.00	176	166.00	623	246.00	1507	365.00	2087
88.00	257	167.00	3864	247.00	284	366.00	490
89.00	87	168.00	2200	248.00	109	370.00	147
91.00	945	169.00	331	249.00	616	371.00	183
92.00	633	170.00	165	250.00	141	372.00	601
93.00	5573	171.00	295	251.00	99	373.00	335
94.00	433	172.00	412	252.00	82	384.00	140
95.00	219	173.00	329	253.00	183	390.00	75
96.00	357	174.00	969	254.00	496	391.00	206
97.00	94	175.00	1726	255.00	37768	402.00	252
98.00	2760	176.00	453	256.00	6014	403.00	188
99.00	3086	177.00	636	257.00	656	404.00	274
100.00	108	178.00	167	258.00	2749	421.00	79
101.00	1360	179.00	3315	259.00	560	422.00	289
102.00	383	180.00	1844	260.00	94	423.00	1582
103.00	417	181.00	957	261.00	110	424.00	356
104.00	900	185.00	1392	263.00	75	428.00	103
105.00	865	186.00	9523	264.00	82	429.00	102
106.00	162	187.00	2465	265.00	976	436.00	121
107.00	10874	188.00	440	266.00	191	441.00	5332
108.00	1494	189.00	611	267.00	142	442.00	39248
109.00	397	191.00	453	270.00	87	443.00	8257
110.00	20224	192.00	872	271.00	101	444.00	752
111.00	3238	193.00	1334	272.00	155	547.00	127
112.00	219	194.00	408	273.00	972		
113.00	166	195.00	217	274.00	2900		
116.00	660	196.00	1965	275.00	13612		
117.00	9344	197.00	438	276.00	2248		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88767-3

SDG No.: 68088767-3

Client Sample ID: | Lab Sample ID: MB 660-136087/1-A

Matrix: Solid | Lab File ID: 1CD05008.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/03/2013 15:12

Sample wt/vol: 14.98(g) | Date Analyzed: 04/05/2013 13:31

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.: 136171 | 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	69		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05008.D
Lab Smp Id: mb 660-136087/1-a
Inj Date : 05-APR-2013 13:31
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-136087/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m
Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

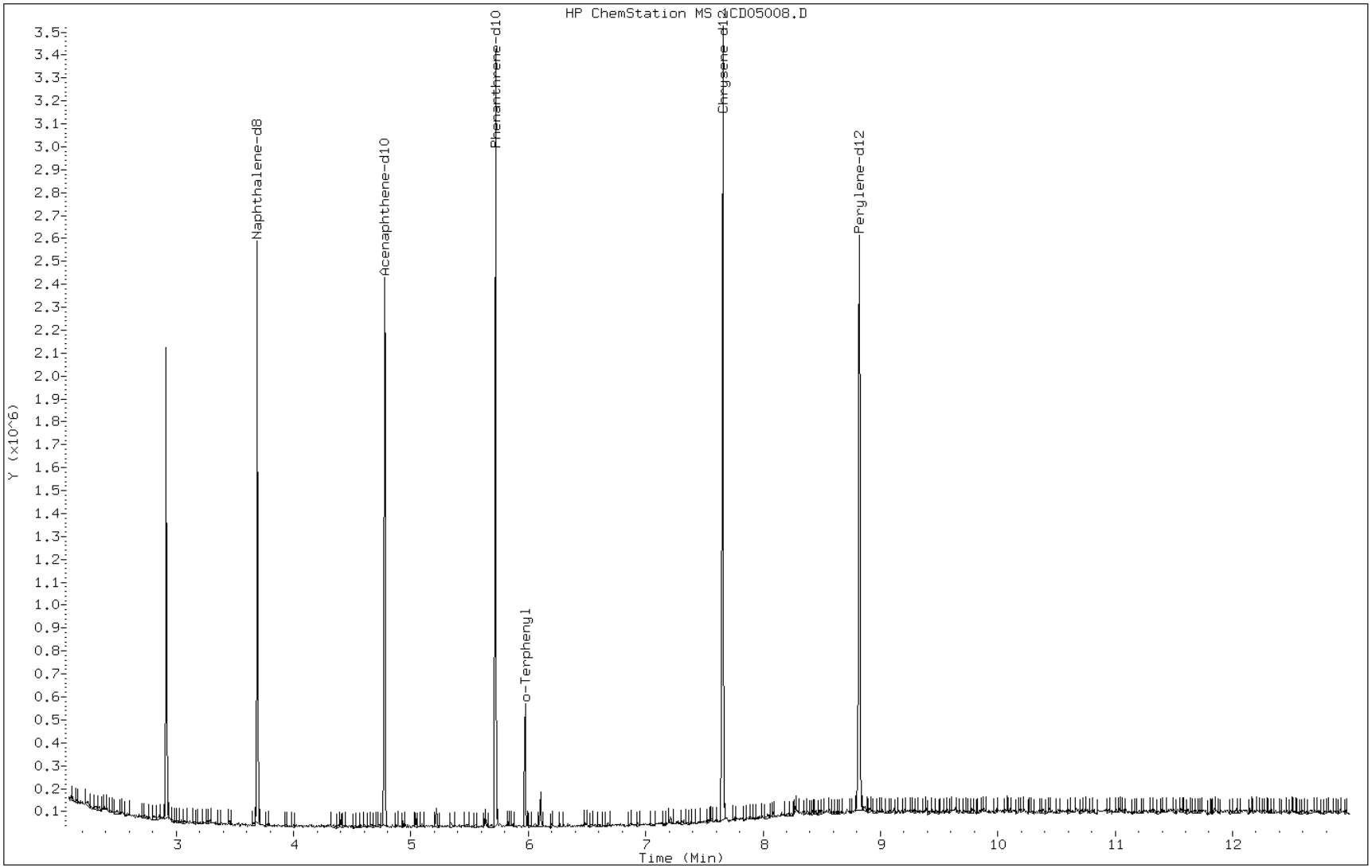
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.692	3.692	(1.000)	440415	40.0000	
* 6 Acenaphthene-d10	164	4.774	4.780	(1.000)	321595	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	634040	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	64174	6.92633	462.3719
* 18 Chrysene-d12	240	7.656	7.662	(1.000)	799526	40.0000	
* 23 Perylene-d12	264	8.821	8.827	(1.000)	849543	40.0000	

Data File: 1CD05008.D

Date: 05-APR-2013 13:31

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-136087/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88767-3

SDG No.: 68088767-3

Client Sample ID: | Lab Sample ID: MB 660-136104/1-A

Matrix: Solid | Lab File ID: 1CD05032.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/04/2013 10:07

Sample wt/vol: 15.14(g) | Date Analyzed: 04/05/2013 20:55

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.: 136171 | 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	6.0
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	74		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05032.D
Lab Smp Id: mb 660-136104/1-a
Inj Date : 05-APR-2013 20:55
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-136104/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m
Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 31 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	15.140	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

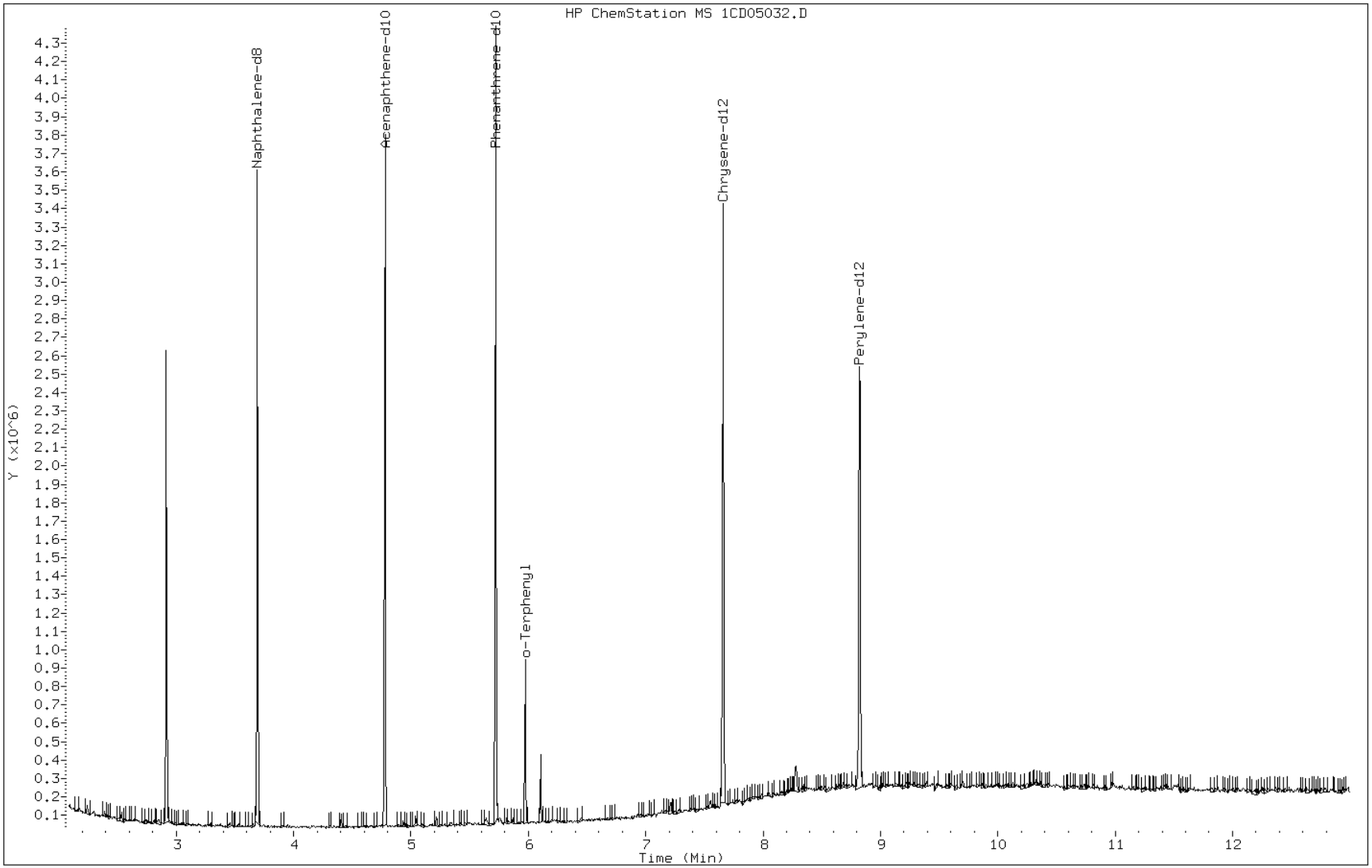
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.692	3.692	(1.000)	590353	40.0000	
* 6 Acenaphthene-d10	164	4.780	4.780	(1.000)	446558	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	864942	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	94823	7.44187	491.5372
* 18 Chrysene-d12	240	7.662	7.662	(1.000)	885941	40.0000	
* 23 Perylene-d12	264	8.827	8.827	(1.000)	848008	40.0000	

Data File: 1CD05032.D

Date: 05-APR-2013 20:55

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-136104/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88767-3
SDG No.: 68088767-3
Client Sample ID:
Lab Sample ID: LCS 660-136087/2-A
Matrix: Solid
Lab File ID: 1CD05009.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 04/03/2013 15:12
Sample wt/vol: 15.35(g)
Date Analyzed: 04/05/2013 13:49
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.: 136171
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	495		98	20
208-96-8	Acenaphthylene	455		39	4.9
120-12-7	Anthracene	452		8.2	4.1
56-55-3	Benzo[a]anthracene	503		7.8	3.8
50-32-8	Benzo[a]pyrene	454		10	5.1
205-99-2	Benzo[b]fluoranthene	483		12	6.0
191-24-2	Benzo[g,h,i]perylene	478		20	4.3
207-08-9	Benzo[k]fluoranthene	523		7.8	3.5
218-01-9	Chrysene	449		8.8	4.4
53-70-3	Dibenz(a,h)anthracene	529		20	4.0
206-44-0	Fluoranthene	534		20	3.9
86-73-7	Fluorene	517		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	456		20	6.9
90-12-0	1-Methylnaphthalene	530		39	4.3
91-57-6	2-Methylnaphthalene	447		39	6.9
91-20-3	Naphthalene	455		39	4.3
85-01-8	Phenanthrene	461		7.8	3.8
129-00-0	Pyrene	496		20	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	77		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05009.D
Lab Smp Id: lcs 660-136087/2-a
Inj Date : 05-APR-2013 13:49
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-136087/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m
Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
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	15.350	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	3.692	3.692	(1.000)	405055	40.0000	
* 6 Acenaphthene-d10	164	4.780	4.780	(1.000)	305607	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	623523	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	70908	7.69259	501.1456
* 18 Chrysene-d12	240	7.657	7.662	(1.000)	814038	40.0000	
* 23 Perylene-d12	264	8.821	8.827	(1.000)	828022	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	72618	6.97998	454.7219
3 2-Methylnaphthalene	142	4.133	4.133	(1.119)	48643	6.86854	447.4618
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	51826	8.13286	529.8280
5 Acenaphthylene	152	4.692	4.692	(0.982)	88370	6.98669	455.1592
7 Acenaphthene	154	4.798	4.798	(1.004)	59549	7.60138	495.2038
9 Fluorene	166	5.115	5.116	(1.070)	82896	7.93760	517.1075
11 Phenanthrene	178	5.739	5.739	(1.003)	128638	7.08363	461.4745
12 Anthracene	178	5.768	5.774	(1.008)	127734	6.93875	452.0357

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	131271	8.32323	542.2298
15 Fluoranthene	202	6.568	6.574	(1.148)	164400	8.19733	534.0279
16 Pyrene	202	6.739	6.739	(0.880)	171745	7.61636	496.1799
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	178822	7.71711	502.7432
19 Chrysene	228	7.674	7.680	(1.002)	159710	6.88508	448.5395
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.961)	173692	7.41992	483.3823
21 Benzo(k)fluoranthene	252	8.504	8.509	(0.964)	181841	8.03163	523.2332
22 Benzo(a)pyrene	252	8.768	8.774	(0.994)	153457	6.96300	453.6156
24 Indeno(1,2,3-cd)pyrene	276	9.950	9.962	(1.128)	146520	6.99954	455.9962(M)
25 Dibenzo(a,h)anthracene	278	9.968	9.980	(1.130)	157025	8.12046	529.0200
26 Benzo(g,h,i)perylene	276	10.292	10.303	(1.167)	156602	7.33004	477.5269

QC Flag Legend

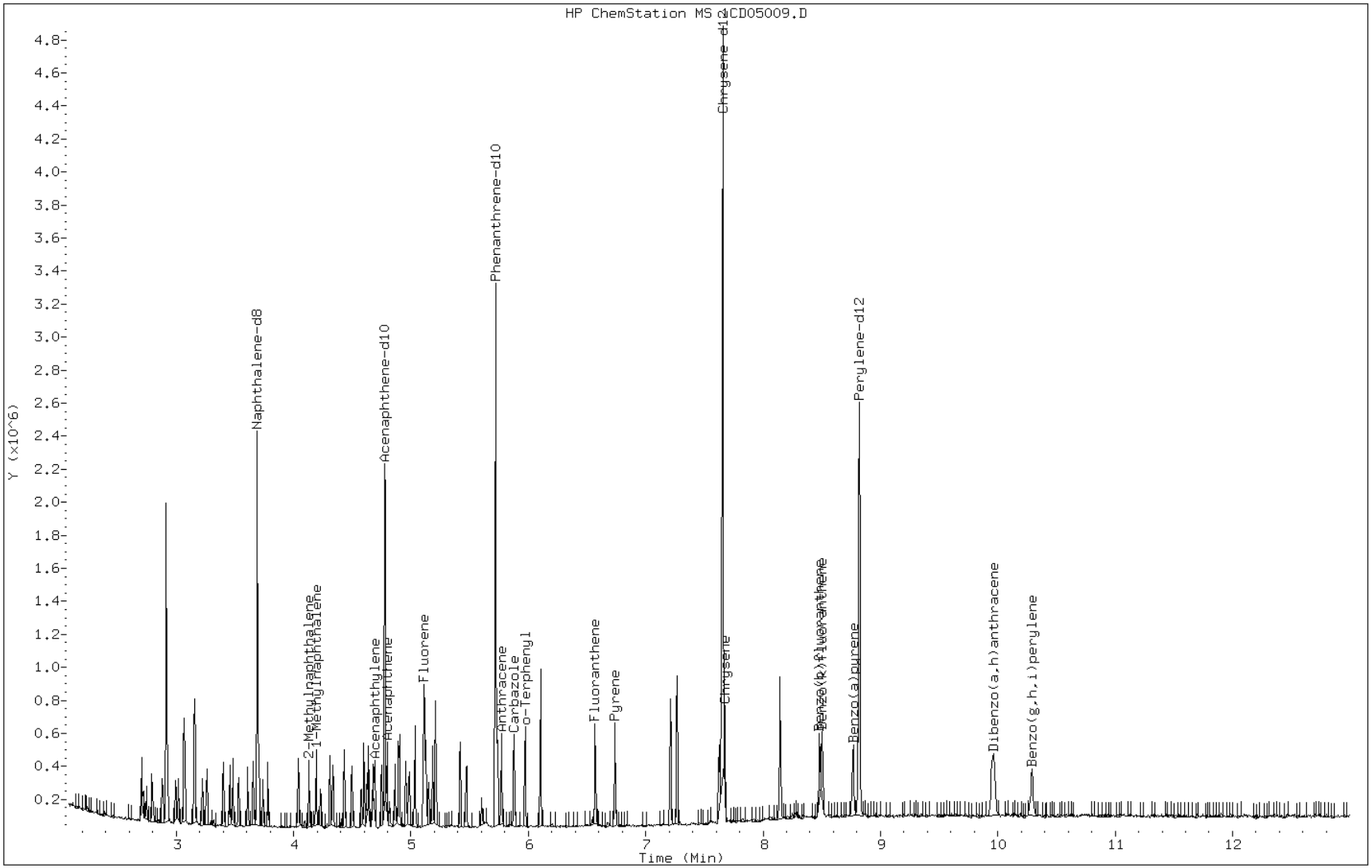
M - Compound response manually integrated.

Data File: 1CD05009.D

Date: 05-APR-2013 13:49

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-136087/2-a Operator: SCC



Manual Integration Report

Data File: 1CD05009.D
Inj. Date and Time: 05-APR-2013 13:49
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

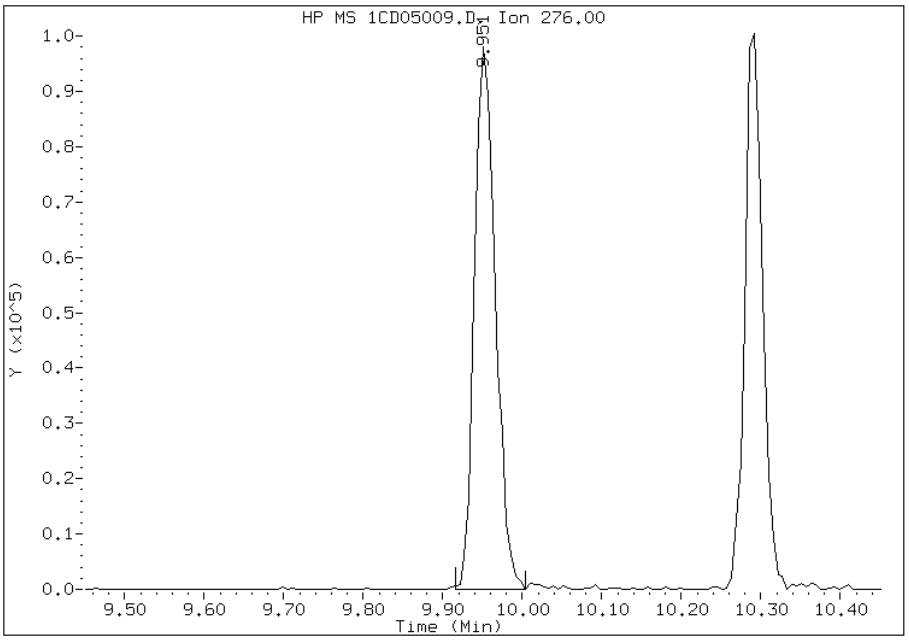
Processing Integration Results

RT: 9.95

Response: 178362

Amount: 9

Conc: 555



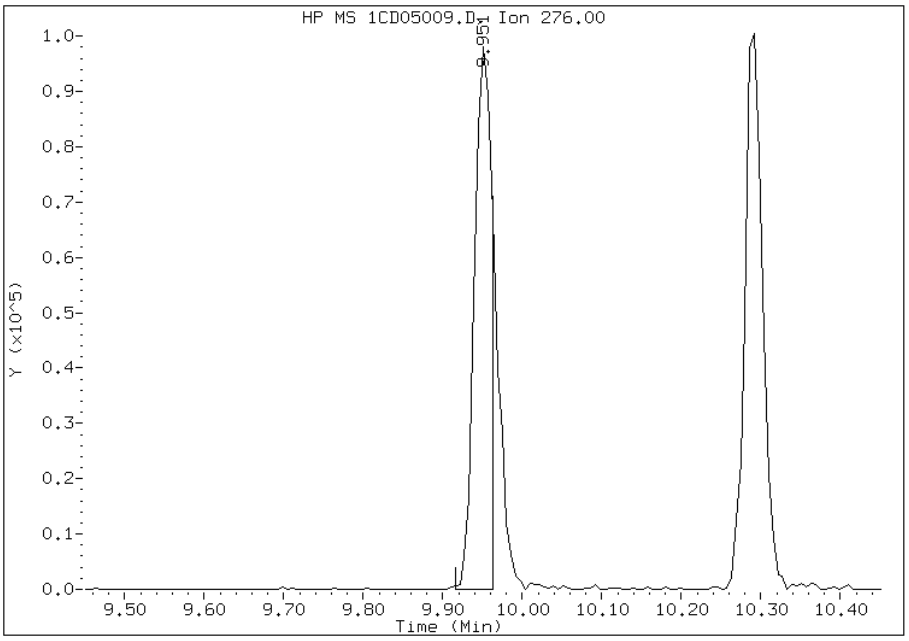
Manual Integration Results

RT: 9.95

Response: 146520

Amount: 7

Conc: 456



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:00
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88767-3
SDG No.: 68088767-3
Client Sample ID:
Lab Sample ID: LCS 660-136104/2-A
Matrix: Solid
Lab File ID: 1CD05033.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 04/04/2013 10:07
Sample wt/vol: 15.25(g)
Date Analyzed: 04/05/2013 21:13
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 136171
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	484		98	20
208-96-8	Acenaphthylene	476		39	4.9
120-12-7	Anthracene	465		8.3	4.1
56-55-3	Benzo[a]anthracene	525		7.9	3.8
50-32-8	Benzo[a]pyrene	461		10	5.1
205-99-2	Benzo[b]fluoranthene	447		12	6.0
191-24-2	Benzo[g,h,i]perylene	418		20	4.3
207-08-9	Benzo[k]fluoranthene	532		7.9	3.5
218-01-9	Chrysene	492		8.9	4.4
53-70-3	Dibenz(a,h)anthracene	492		20	4.0
206-44-0	Fluoranthene	478		20	3.9
86-73-7	Fluorene	469		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	389		20	7.0
90-12-0	1-Methylnaphthalene	518		39	4.3
91-57-6	2-Methylnaphthalene	480		39	7.0
91-20-3	Naphthalene	461		39	4.3
85-01-8	Phenanthrene	490		7.9	3.8
129-00-0	Pyrene	549		20	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	73		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05033.D
Lab Smp Id: lcs 660-136104/2-a
Inj Date : 05-APR-2013 21:13
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-136104/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m
Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 32 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	15.250	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	3.692	3.692	(1.000)	530869	40.0000	
* 6 Acenaphthene-d10	164	4.780	4.780	(1.000)	398228	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	807075	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	86923	7.32375	480.2459
* 18 Chrysene-d12	240	7.656	7.662	(1.000)	890990	40.0000	
* 23 Perylene-d12	264	8.821	8.827	(1.000)	828383	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	95817	7.02715	460.7967
3 2-Methylnaphthalene	142	4.133	4.133	(1.119)	67874	7.31264	479.5172
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	65943	7.89571	517.7511
5 Acenaphthylene	152	4.692	4.692	(0.982)	119751	7.26570	476.4394
7 Acenaphthene	154	4.798	4.798	(1.004)	75392	7.38541	484.2892
9 Fluorene	166	5.115	5.116	(1.070)	97319	7.15130	468.9374
11 Phenanthrene	178	5.739	5.739	(1.003)	175805	7.47923	490.4410
12 Anthracene	178	5.774	5.774	(1.009)	168928	7.08949	464.8844

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	160507	7.86241	515.5676
15 Fluoranthene	202	6.574	6.574	(1.149)	189270	7.29106	478.1026
16 Pyrene	202	6.739	6.739	(0.880)	206571	8.36960	548.8262
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	203120	8.00351	524.8200
19 Chrysene	228	7.680	7.680	(1.003)	190352	7.49733	491.6278
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.962)	159638	6.81658	446.9885
21 Benzo(k)fluoranthene	252	8.503	8.509	(0.964)	183808	8.11497	532.1293
22 Benzo(a)pyrene	252	8.768	8.774	(0.994)	155014	7.03058	461.0217
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.962	(1.129)	124201	5.93074	388.9007(M)
25 Dibenzo(a,h)anthracene	278	9.968	9.980	(1.130)	145156	7.50339	492.0254
26 Benzo(g,h,i)perylene	276	10.292	10.303	(1.167)	136128	6.36894	417.6354

QC Flag Legend

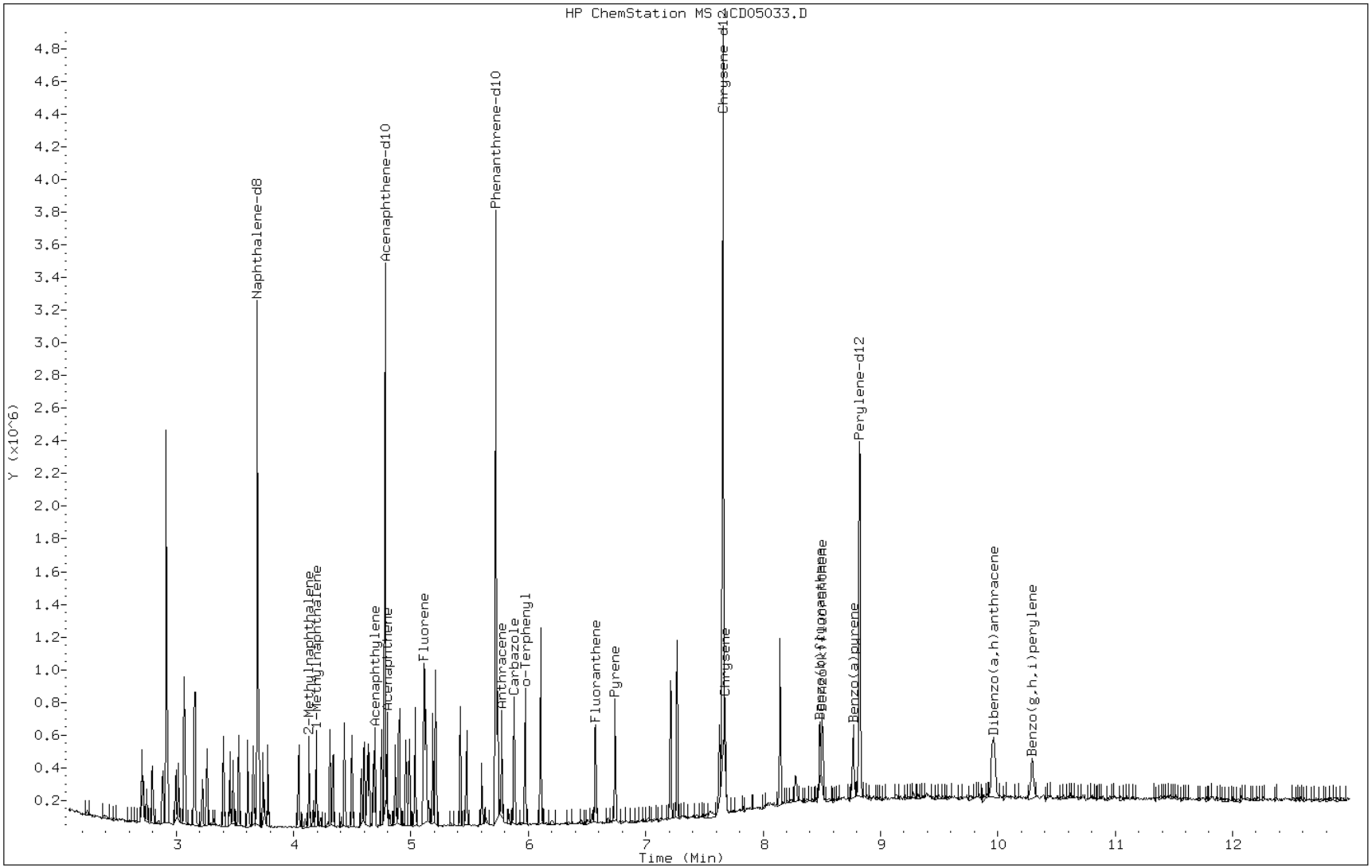
M - Compound response manually integrated.

Data File: 1CD05033.D

Date: 05-APR-2013 21:13

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-136104/2-a Operator: SCC



Manual Integration Report

Data File: 1CD05033.D
Inj. Date and Time: 05-APR-2013 21:13
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

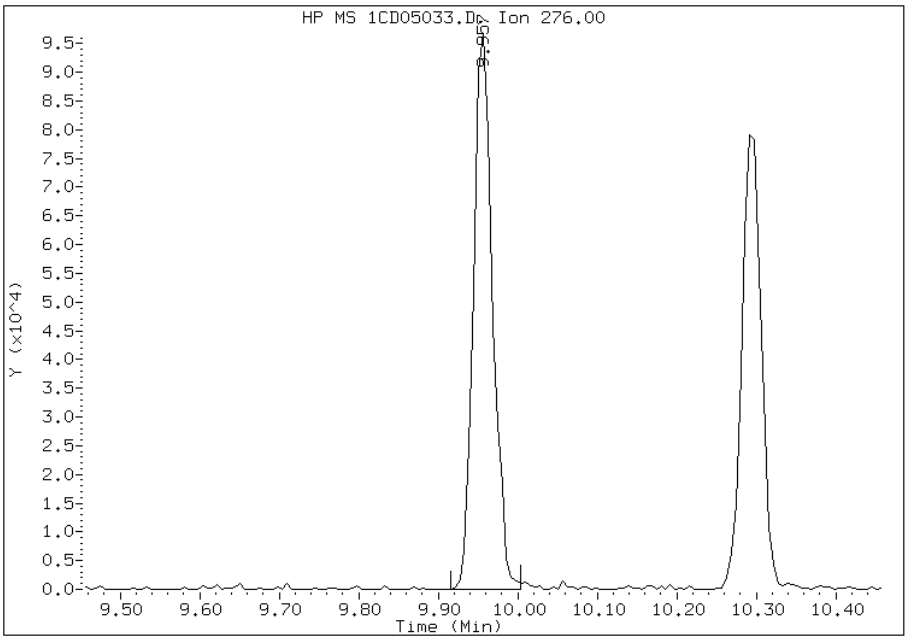
Processing Integration Results

RT: 9.96

Response: 160538

Amount: 8

Conc: 503



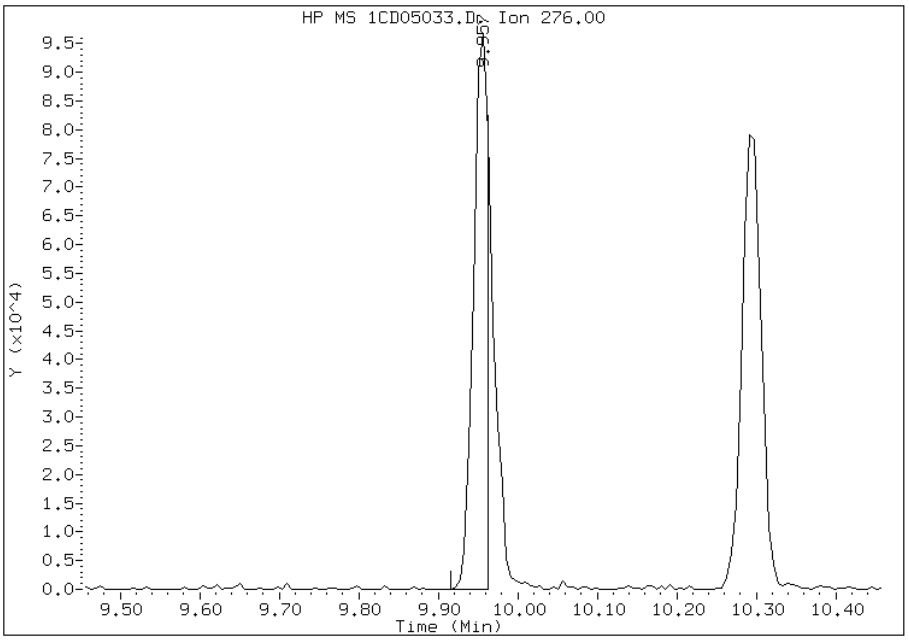
Manual Integration Results

RT: 9.96

Response: 124201

Amount: 6

Conc: 389



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 13:39
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88767-3
SDG No.: 68088767-3
Client Sample ID:
Lab Sample ID: 680-88811-A-1-B MS
Matrix: Solid
Lab File ID: 1CD05039.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 04/04/2013 10:07
Sample wt/vol: 15.13(g)
Date Analyzed: 04/05/2013 23:04
Con. Extract Vol.: 1(mL)
Dilution Factor: 4
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 40.9
GPC Cleanup:(Y/N) N
Analysis Batch No.: 136171
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	792		670	130
208-96-8	Acenaphthylene	814		270	34
120-12-7	Anthracene	911		56	28
56-55-3	Benzo[a]anthracene	1250		54	26
50-32-8	Benzo[a]pyrene	1020		70	35
205-99-2	Benzo[b]fluoranthene	1200		82	41
191-24-2	Benzo[g,h,i]perylene	964		130	30
207-08-9	Benzo[k]fluoranthene	1150		54	24
218-01-9	Chrysene	1170		60	30
53-70-3	Dibenz(a,h)anthracene	789		130	27
206-44-0	Fluoranthene	1380		130	27
86-73-7	Fluorene	824		130	27
193-39-5	Indeno[1,2,3-cd]pyrene	884		130	48
90-12-0	1-Methylnaphthalene	966		270	30
91-57-6	2-Methylnaphthalene	998		270	48
91-20-3	Naphthalene	1040		270	30
85-01-8	Phenanthrene	1170		54	26
129-00-0	Pyrene	1380		130	25

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\1C040513.b\1CD05039.D
Lab Smp Id: 680-88811-a-1-b ms
Inj Date : 05-APR-2013 23:04
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-1-b ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m
Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 38 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	15.130	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	3.692	3.692	(1.000)	535106	40.0000	
* 6 Acenaphthene-d10	164	4.780	4.780	(1.000)	419924	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	763930	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	19498	2.28908	605.1754
* 18 Chrysene-d12	240	7.657	7.662	(1.000)	852808	40.0000	
* 23 Perylene-d12	264	8.821	8.827	(1.000)	826433	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	32047	2.33169	616.4426
3 2-Methylnaphthalene	142	4.133	4.133	(1.119)	20879	2.23166	589.9958
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	18199	2.16181	571.5291
5 Acenaphthylene	152	4.692	4.692	(0.982)	31630	1.81995	481.1492
7 Acenaphthene	154	4.798	4.798	(1.004)	19079	1.77242	468.5837
9 Fluorene	166	5.116	5.116	(1.070)	26455	1.84355	487.3905
11 Phenanthrene	178	5.739	5.739	(1.003)	58006	2.60711	689.2547
12 Anthracene	178	5.769	5.774	(1.008)	45967	2.03807	538.8163

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	34672	1.79432	474.3750
15 Fluoranthene	202	6.568	6.574	(1.148)	75848	3.08684	816.0836
16 Pyrene	202	6.739	6.739	(0.880)	73160	3.09692	818.7506
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	65727	2.79556	739.0769
19 Chrysene	228	7.674	7.680	(1.002)	63426	2.60998	690.0155
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.962)	62718	2.68439	709.6869
21 Benzo(k)fluoranthene	252	8.504	8.509	(0.964)	57960	2.56492	678.1028
22 Benzo(a)pyrene	252	8.768	8.774	(0.994)	50206	2.28244	603.4212
24 Indeno(1,2,3-cd)pyrene	276	9.951	9.962	(1.128)	41297	1.97663	522.5725(M)
25 Dibenzo(a,h)anthracene	278	9.974	9.980	(1.131)	34047	1.76411	466.3863
26 Benzo(g,h,i)perylene	276	10.292	10.303	(1.167)	45973	2.15599	569.9898

QC Flag Legend

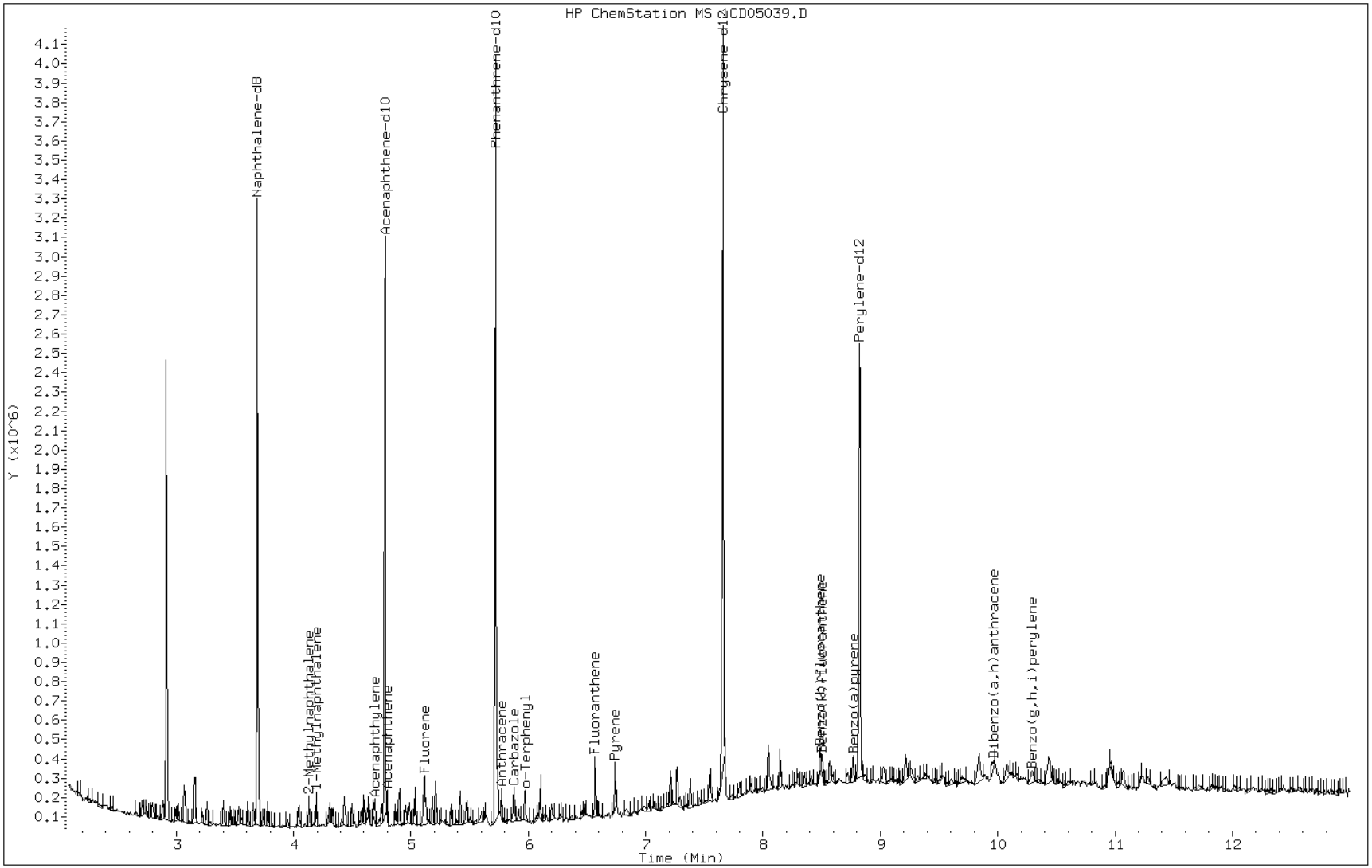
M - Compound response manually integrated.

Data File: 1CD05039.D

Date: 05-APR-2013 23:04

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88811-a-1-b ms Operator: SCC



Manual Integration Report

Data File: 1CD05039.D
Inj. Date and Time: 05-APR-2013 23:04
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

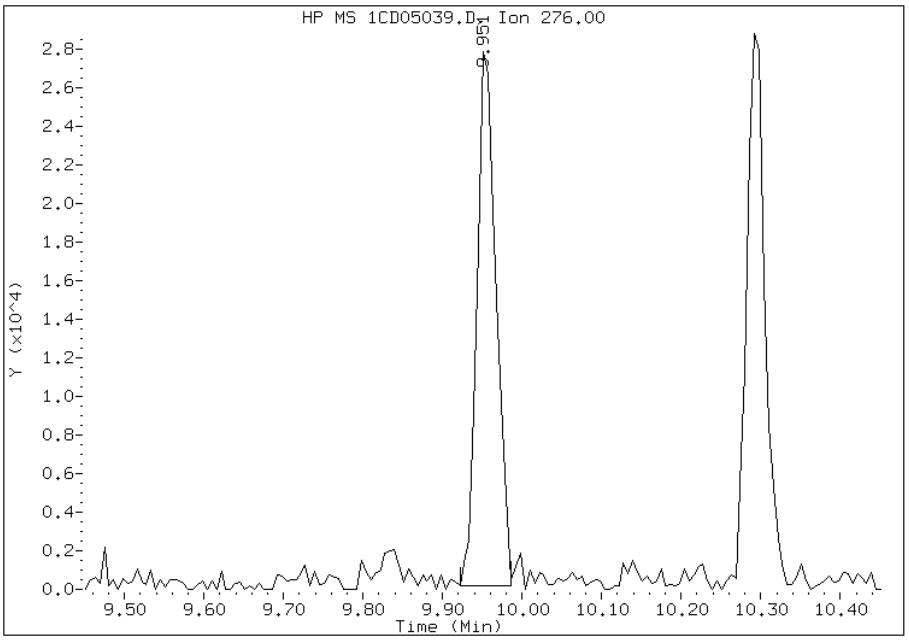
Processing Integration Results

RT: 9.95

Response: 45899

Amount: 2

Conc: 581



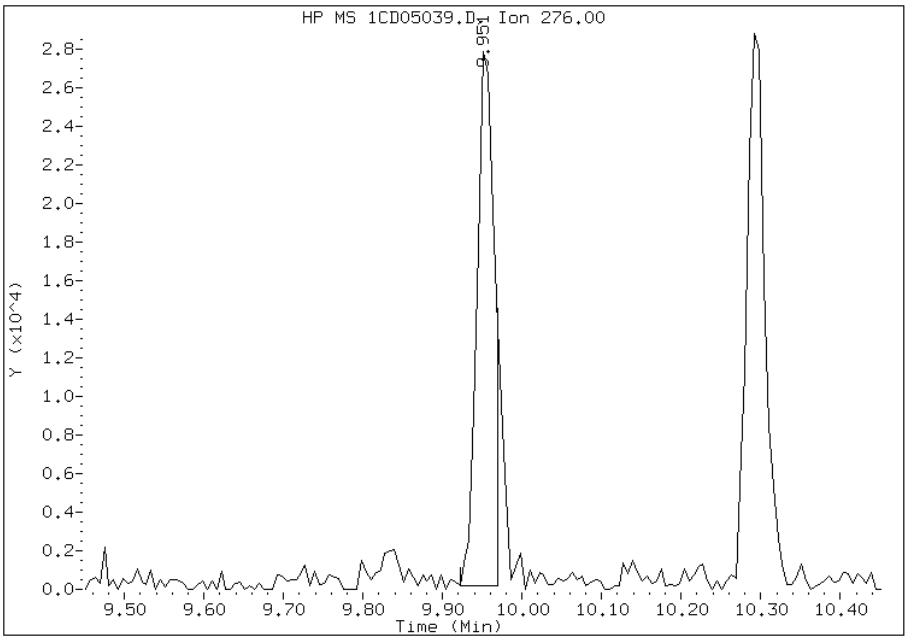
Manual Integration Results

RT: 9.95

Response: 41297

Amount: 2

Conc: 523



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 13:46
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88767-3

SDG No.: 68088767-3

Client Sample ID: CV0509DD-CS MS | Lab Sample ID: 680-88767-41 MS

Matrix: Solid | Lab File ID: 1CD05021.D

Analysis Method: 8270C LL | Date Collected: 03/26/2013 14:58

Extract. Method: 3546 | Date Extracted: 04/03/2013 15:12

Sample wt/vol: 14.96(g) | Date Analyzed: 04/05/2013 17:33

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

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

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

Analysis Batch No.: 136171 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	545		120	24
208-96-8	Acenaphthylene	553		49	6.1
120-12-7	Anthracene	579		10	5.1
56-55-3	Benzo[a]anthracene	761		9.8	4.8
50-32-8	Benzo[a]pyrene	715		13	6.3
205-99-2	Benzo[b]fluoranthene	880		15	7.4
191-24-2	Benzo[g,h,i]perylene	631		24	5.4
207-08-9	Benzo[k]fluoranthene	677		9.8	4.4
218-01-9	Chrysene	746		11	5.5
53-70-3	Dibenz(a,h)anthracene	579		24	5.0
206-44-0	Fluoranthene	944		24	4.9
86-73-7	Fluorene	553		24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	618		24	8.7
90-12-0	1-Methylnaphthalene	626		49	5.4
91-57-6	2-Methylnaphthalene	635		49	8.7
91-20-3	Naphthalene	533		49	5.4
85-01-8	Phenanthrene	834		9.8	4.8
129-00-0	Pyrene	941		24	4.5

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05021.D
Lab Smp Id: 680-88767-a-41-b ms
Inj Date : 05-APR-2013 17:33
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88767-a-41-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m
Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 20 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.692	3.692	(1.000)	504308	40.0000	
* 6 Acenaphthene-d10	164	4.780	4.780	(1.000)	381521	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	764467	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	71558	6.46014	431.8276
* 18 Chrysene-d12	240	7.657	7.662	(1.000)	870786	40.0000	
* 23 Perylene-d12	264	8.827	8.827	(1.000)	839205	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	84933	6.55699	438.3015
3 2-Methylnaphthalene	142	4.133	4.133	(1.119)	68893	7.81335	522.2827
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	61125	7.70429	514.9926
5 Acenaphthylene	152	4.692	4.692	(0.982)	107485	6.80706	455.0174
7 Acenaphthene	154	4.798	4.798	(1.004)	65590	6.70657	448.3000
9 Fluorene	166	5.116	5.116	(1.070)	88630	6.79800	454.4118
11 Phenanthrene	178	5.739	5.739	(1.003)	228496	10.2626	686.0055
12 Anthracene	178	5.774	5.774	(1.009)	160743	7.12197	476.0678

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	142003	7.34369	490.8882
15 Fluoranthene	202	6.568	6.574	(1.148)	285539	11.6126	776.2438
16 Pyrene	202	6.739	6.739	(0.880)	279210	11.5752	773.7418
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	232868	9.36509	626.0083
19 Chrysene	228	7.680	7.680	(1.003)	227668	9.17513	613.3109
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	256806	10.8243	723.5469
21 Benzo(k)fluoranthene	252	8.504	8.509	(0.963)	190953	8.32170	556.2635
22 Benzo(a)pyrene	252	8.768	8.774	(0.993)	196493	8.79692	588.0293
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.962	(1.128)	161265	7.60128	508.1069(M)
25 Dibenzo(a,h)anthracene	278	9.974	9.980	(1.130)	139627	7.12451	476.2372
26 Benzo(g,h,i)perylene	276	10.303	10.303	(1.167)	168093	7.76305	518.9205

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD05021.D

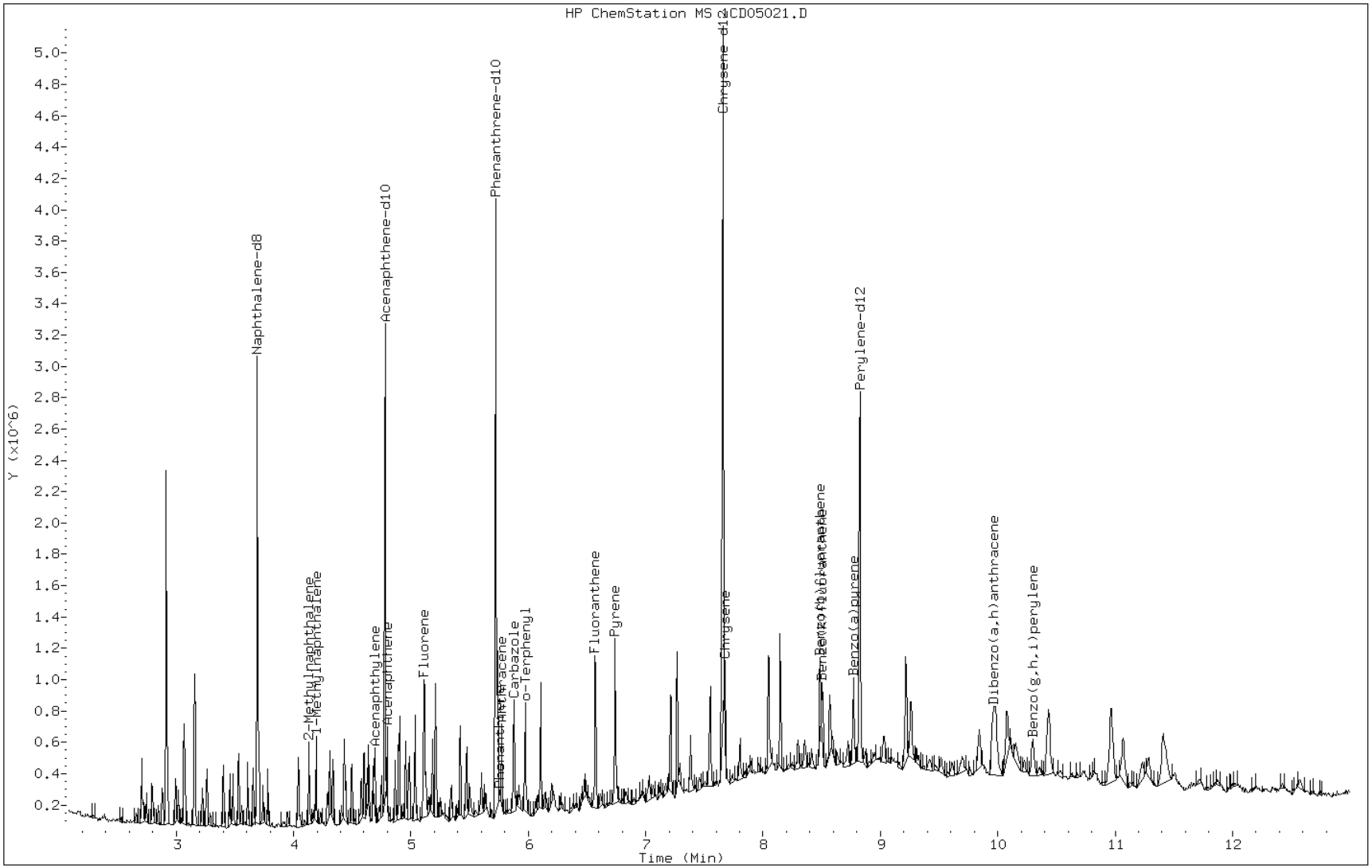
Date: 05-APR-2013 17:33

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88767-a-41-b ms

Operator: SCC



Manual Integration Report

Data File: 1CD05021.D
Inj. Date and Time: 05-APR-2013 17:33
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

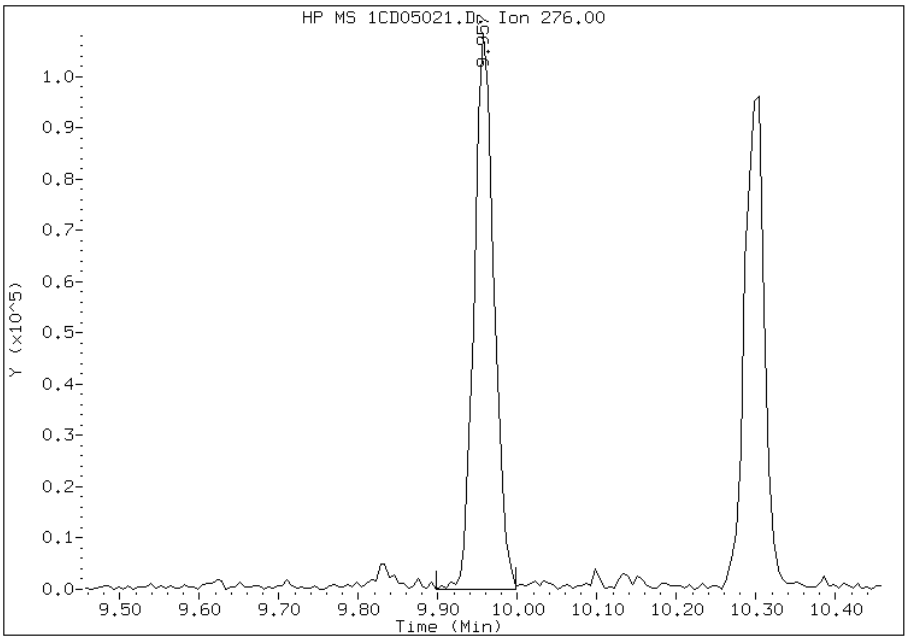
Processing Integration Results

RT: 9.96

Response: 188207

Amount: 9

Conc: 593



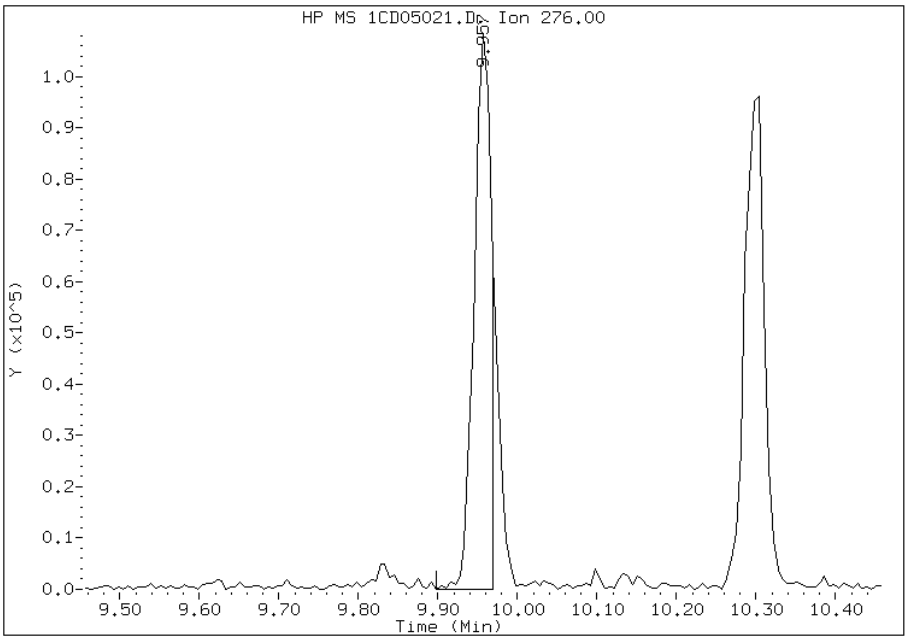
Manual Integration Results

RT: 9.96

Response: 161265

Amount: 8

Conc: 508



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:13
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88767-3

SDG No.: 68088767-3

Client Sample ID: | Lab Sample ID: 680-88811-A-1-C MSD

Matrix: Solid | Lab File ID: 1CD05040.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/04/2013 10:07

Sample wt/vol: 15.13(g) | Date Analyzed: 04/05/2013 23:22

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

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

% Moisture: 40.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136171 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	705		670	130
208-96-8	Acenaphthylene	766		270	34
120-12-7	Anthracene	721		56	28
56-55-3	Benzo[a]anthracene	1120		54	26
50-32-8	Benzo[a]pyrene	911		70	35
205-99-2	Benzo[b]fluoranthene	1250		82	41
191-24-2	Benzo[g,h,i]perylene	869		130	30
207-08-9	Benzo[k]fluoranthene	849		54	24
218-01-9	Chrysene	1010		60	30
53-70-3	Dibenz(a,h)anthracene	759		130	27
206-44-0	Fluoranthene	1330		130	27
86-73-7	Fluorene	676		130	27
193-39-5	Indeno[1,2,3-cd]pyrene	771		130	48
90-12-0	1-Methylnaphthalene	839		270	30
91-57-6	2-Methylnaphthalene	896		270	48
91-20-3	Naphthalene	765		270	30
85-01-8	Phenanthrene	1080		54	26
129-00-0	Pyrene	1270		130	25

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	78		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05040.D
Lab Smp Id: 680-88811-a-1-c msd
Inj Date : 05-APR-2013 23:22
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88811-a-1-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m
Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 39 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	15.130	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	3.692	3.692	(1.000)	614948	40.0000	
* 6 Acenaphthene-d10	164	4.780	4.780	(1.000)	473107	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	888143	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	17802	1.95339	516.4282
* 18 Chrysene-d12	240	7.656	7.662	(1.000)	968869	40.0000	
* 23 Perylene-d12	264	8.827	8.827	(1.000)	918949	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	27015	1.71037	452.1803
3 2-Methylnaphthalene	142	4.133	4.133	(1.119)	21547	2.00404	529.8189
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	18148	1.87586	495.9307
5 Acenaphthylene	152	4.692	4.692	(0.982)	33564	1.71413	453.1746
7 Acenaphthene	154	4.798	4.798	(1.004)	19129	1.57730	416.9991
9 Fluorene	166	5.115	5.116	(1.070)	24440	1.51168	399.6518
11 Phenanthrene	178	5.739	5.739	(1.003)	62730	2.42511	641.1398
12 Anthracene	178	5.774	5.774	(1.009)	42314	1.61372	426.6279

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	37065	1.64990	436.1919
15 Fluoranthene	202	6.568	6.574	(1.148)	84706	2.96520	783.9266
16 Pyrene	202	6.739	6.739	(0.880)	76255	2.84126	751.1600
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	66643	2.50955	663.4644
19 Chrysene	228	7.680	7.680	(1.003)	62626	2.26836	599.6977
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	72635	2.79586	739.1571
21 Benzo(k)fluoranthene	252	8.504	8.509	(0.963)	47721	1.89921	502.1032
22 Benzo(a)pyrene	252	8.768	8.774	(0.993)	49829	2.03724	538.5963
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.962	(1.128)	40059	1.72434	455.8735(M)
25 Dibenzo(a,h)anthracene	278	9.968	9.980	(1.129)	36460	1.69894	449.1587
26 Benzo(g,h,i)perylene	276	10.292	10.303	(1.166)	46094	1.94403	513.9547

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD05040.D

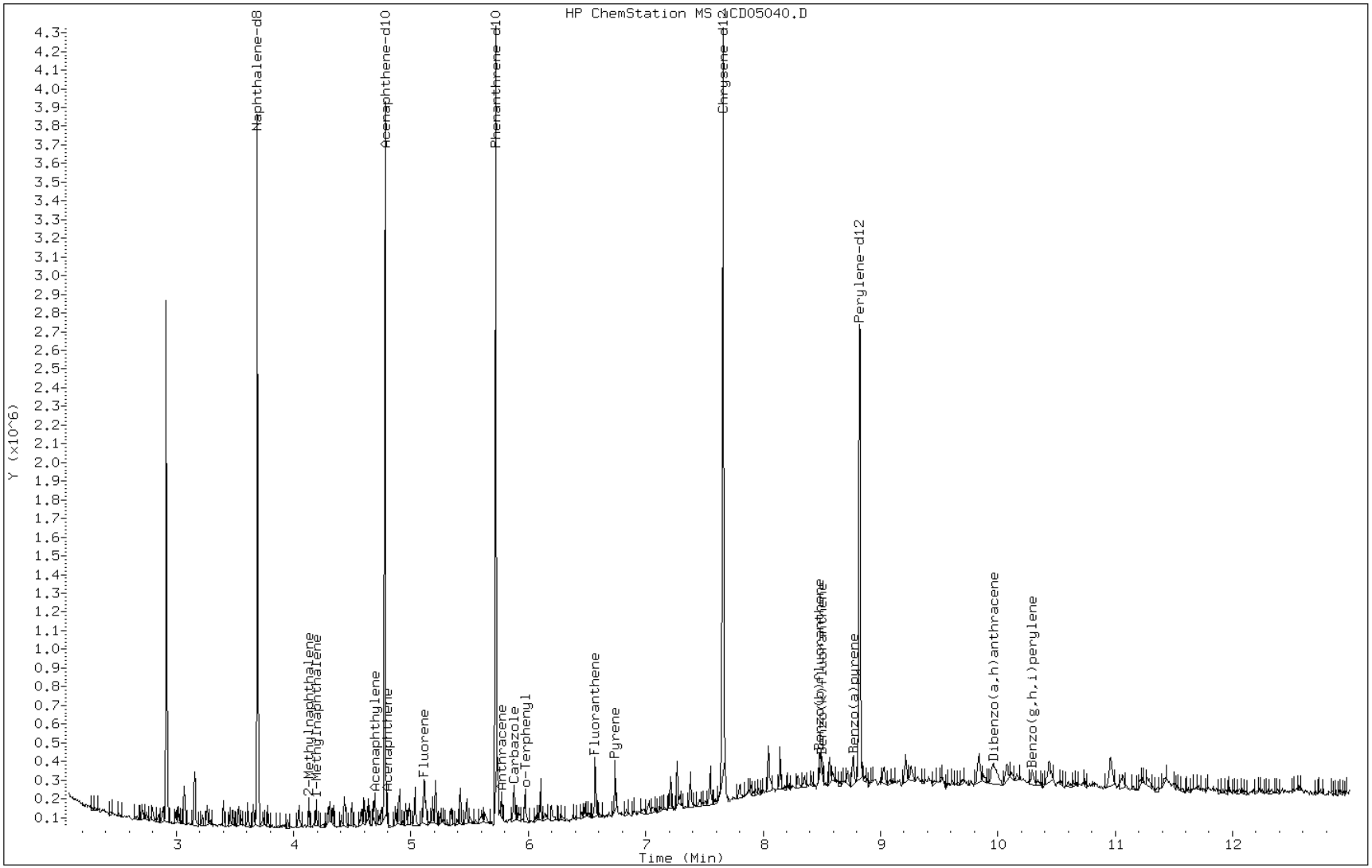
Date: 05-APR-2013 23:22

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88811-a-1-c msd

Operator: SCC



Manual Integration Report

Data File: 1CD05040.D
Inj. Date and Time: 05-APR-2013 23:22
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

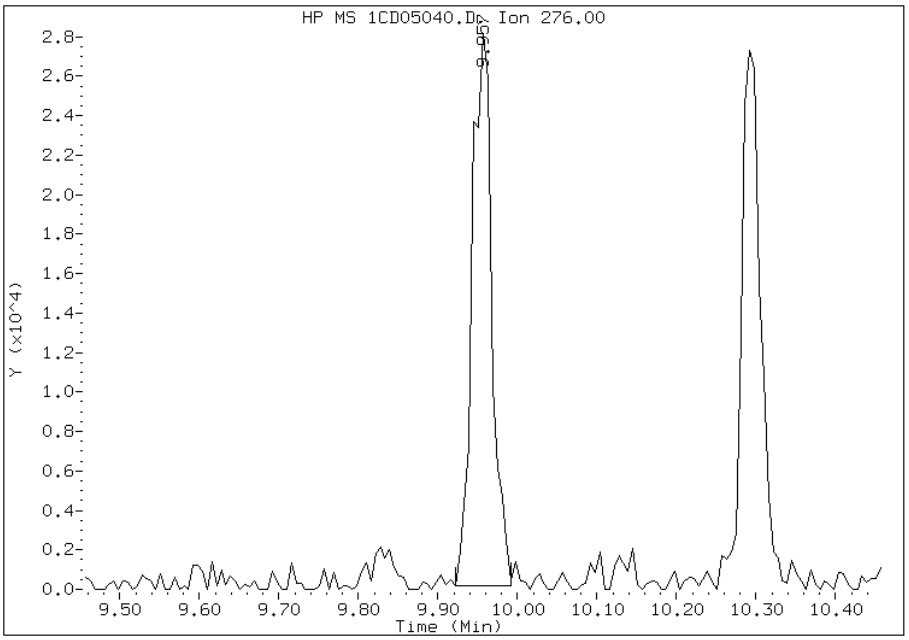
Processing Integration Results

RT: 9.96

Response: 48275

Amount: 2

Conc: 549



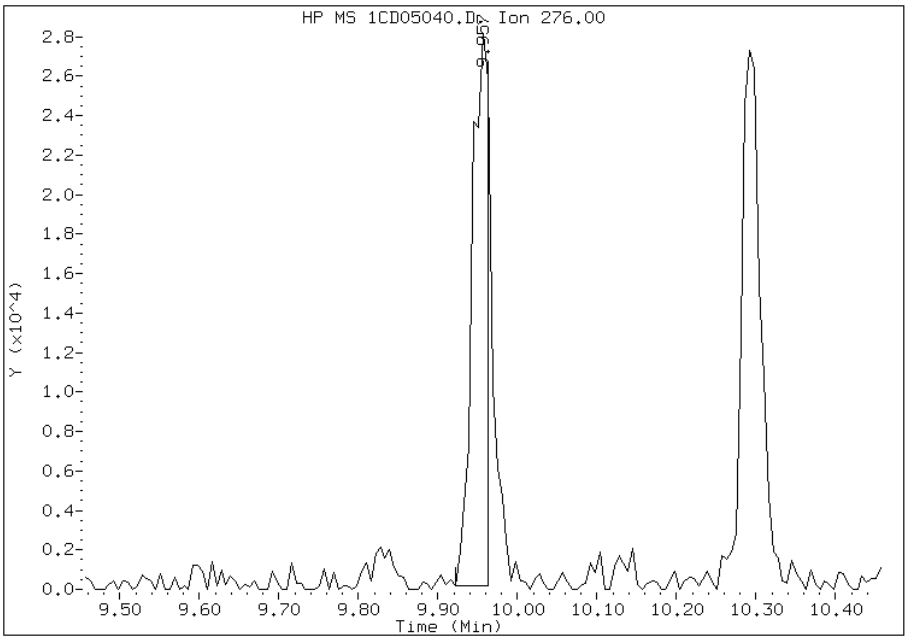
Manual Integration Results

RT: 9.96

Response: 40059

Amount: 2

Conc: 456



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 13:47
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88767-3

SDG No.: 68088767-3

Client Sample ID: CV0509DD-CS MSD | Lab Sample ID: 680-88767-41 MSD

Matrix: Solid | Lab File ID: 1CD05022.D

Analysis Method: 8270C LL | Date Collected: 03/26/2013 14:58

Extract. Method: 3546 | Date Extracted: 04/03/2013 15:12

Sample wt/vol: 14.96(g) | Date Analyzed: 04/05/2013 17:52

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

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

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

Analysis Batch No.: 136171 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	467		120	24
208-96-8	Acenaphthylene	554		49	6.1
120-12-7	Anthracene	527		10	5.1
56-55-3	Benzo[a]anthracene	766		9.8	4.8
50-32-8	Benzo[a]pyrene	690		13	6.3
205-99-2	Benzo[b]fluoranthene	881		15	7.4
191-24-2	Benzo[g,h,i]perylene	661		24	5.4
207-08-9	Benzo[k]fluoranthene	659		9.8	4.4
218-01-9	Chrysene	772		11	5.5
53-70-3	Dibenz(a,h)anthracene	598		24	5.0
206-44-0	Fluoranthene	812		24	4.9
86-73-7	Fluorene	569		24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	615		24	8.7
90-12-0	1-Methylnaphthalene	572		49	5.4
91-57-6	2-Methylnaphthalene	511		49	8.7
91-20-3	Naphthalene	494		49	5.4
85-01-8	Phenanthrene	701		9.8	4.8
129-00-0	Pyrene	866		24	4.5

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05022.D
Lab Smp Id: 680-88767-a-41-c ms
Inj Date : 05-APR-2013 17:52
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88767-a-41-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m
Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 21 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.692	3.692	(1.000)	592710	40.0000	
* 6 Acenaphthene-d10	164	4.780	4.780	(1.000)	441877	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	870768	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	82384	6.52175	435.9460
* 18 Chrysene-d12	240	7.662	7.662	(1.000)	920152	40.0000	
* 23 Perylene-d12	264	8.827	8.827	(1.000)	845257	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	92433	6.07168	405.8609
3 2-Methylnaphthalene	142	4.133	4.133	(1.119)	65178	6.28951	420.4217
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	65621	7.03737	470.4122
5 Acenaphthylene	152	4.692	4.692	(0.982)	124686	6.81784	455.7376
7 Acenaphthene	154	4.798	4.798	(1.004)	65023	5.74046	383.7207
9 Fluorene	166	5.116	5.116	(1.070)	105679	6.99852	467.8155
11 Phenanthrene	178	5.739	5.739	(1.003)	218554	8.61778	576.0551
12 Anthracene	178	5.774	5.774	(1.009)	166625	6.48134	433.2446

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	150705	6.84228	457.3714
15 Fluoranthene	202	6.574	6.574	(1.149)	279769	9.98896	667.7111
16 Pyrene	202	6.739	6.739	(0.879)	271611	10.6560	712.3022
17 Benzo(a)anthracene	228	7.651	7.651	(0.998)	247499	9.41870	629.5921
19 Chrysene	228	7.680	7.680	(1.002)	248854	9.49089	634.4175
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	258979	10.8377	724.4449
21 Benzo(k)fluoranthene	252	8.504	8.509	(0.963)	187208	8.10008	541.4493
22 Benzo(a)pyrene	252	8.768	8.774	(0.993)	190868	8.48391	567.1060
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.962	(1.128)	161589	7.56202	505.4824(M)
25 Dibenzo(a,h)anthracene	278	9.974	9.980	(1.130)	145060	7.34873	491.2254
26 Benzo(g,h,i)perylene	276	10.298	10.303	(1.167)	177259	8.12775	543.2988

QC Flag Legend

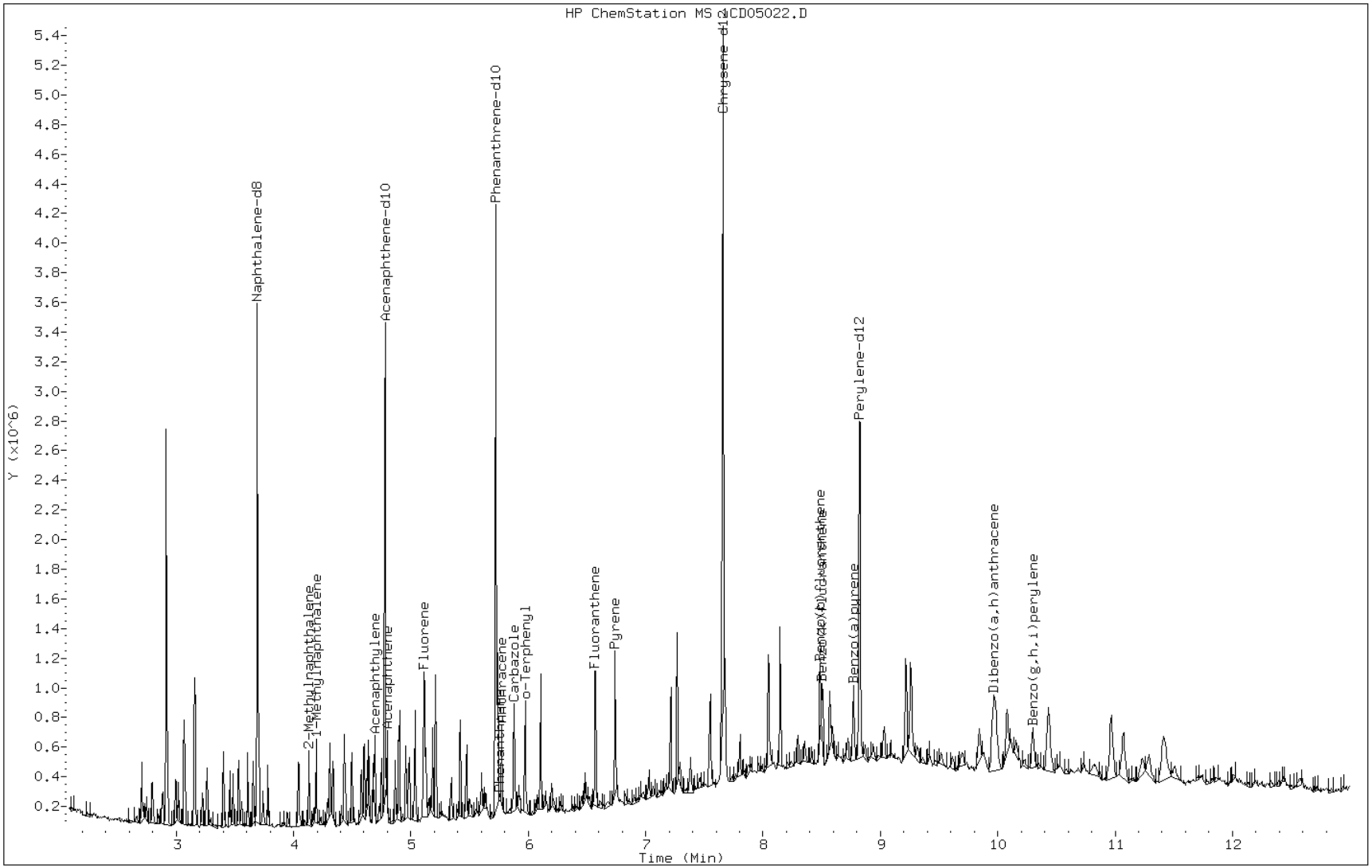
M - Compound response manually integrated.

Data File: 1CD05022.D

Date: 05-APR-2013 17:52

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88767-a-41-c msd Operator: SCC



Manual Integration Report

Data File: 1CD05022.D
Inj. Date and Time: 05-APR-2013 17:52
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/09/2013

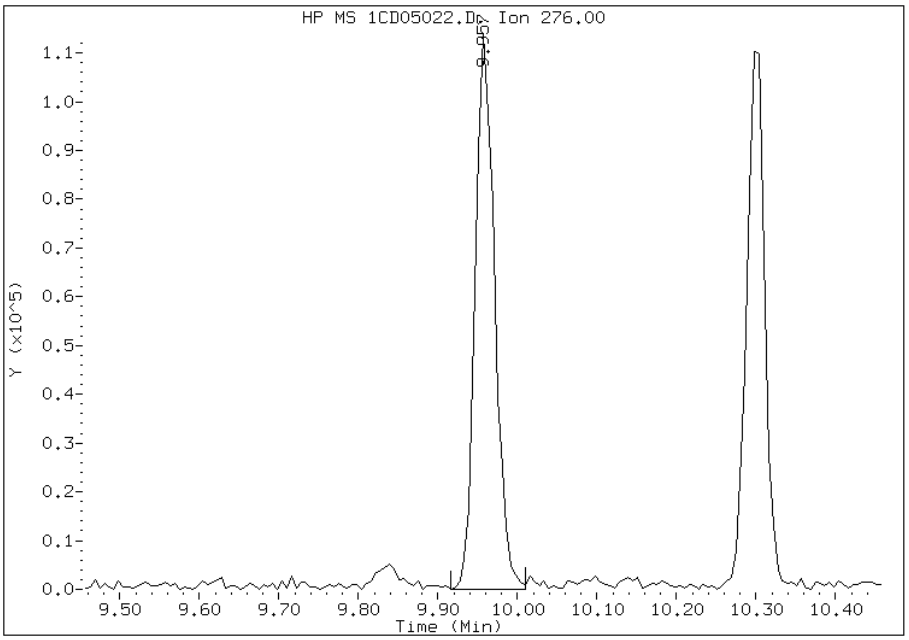
Processing Integration Results

RT: 9.96

Response: 192224

Amount: 9

Conc: 601



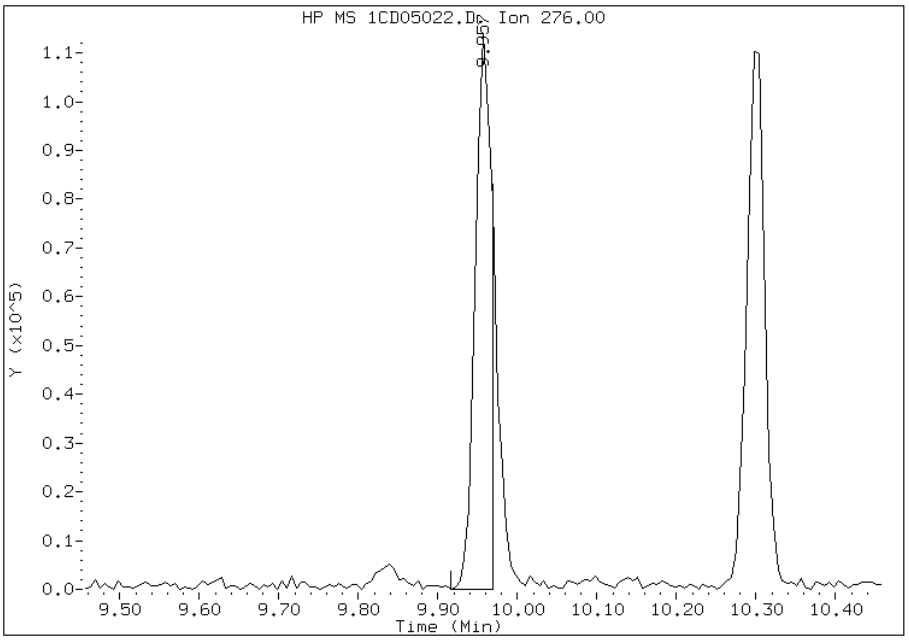
Manual Integration Results

RT: 9.96

Response: 161589

Amount: 8

Conc: 505



Manually Integrated By: cantins
Modification Date: 09-Apr-2013 11:14
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88767-3

SDG No.: 68088767-3

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.: 680-88767-3

SDG No.: 68088767-3

Instrument ID: BSMC5973 Start Date: 04/05/2013 10:58

Analysis Batch Number: 136171 End Date: 04/05/2013 23:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/05/2013 10:58	1		DB-5MS 250(um)
ZZZZZ		04/05/2013 11:18	1		DB-5MS 250(um)
DFTPP 660-136171/2		04/05/2013 11:37	1		DB-5MS 250(um)
DFTPP 660-136171/3		04/05/2013 11:57	1	1CD05003.D	DB-5MS 250(um)
CCVIS 660-136171/4		04/05/2013 12:15	1	1CD05004.D	DB-5MS 250(um)
ZZZZZ		04/05/2013 12:35	1		DB-5MS 250(um)
ZZZZZ		04/05/2013 12:54	1		DB-5MS 250(um)
ZZZZZ		04/05/2013 13:12	1		DB-5MS 250(um)
MB 660-136087/1-A		04/05/2013 13:31	1	1CD05008.D	DB-5MS 250(um)
LCS 660-136087/2-A		04/05/2013 13:49	1	1CD05009.D	DB-5MS 250(um)
ZZZZZ		04/05/2013 14:07	4		DB-5MS 250(um)
ZZZZZ		04/05/2013 14:26	1		DB-5MS 250(um)
ZZZZZ		04/05/2013 14:44	1		DB-5MS 250(um)
ZZZZZ		04/05/2013 15:02	1		DB-5MS 250(um)
ZZZZZ		04/05/2013 15:21	4		DB-5MS 250(um)
ZZZZZ		04/05/2013 15:39	1		DB-5MS 250(um)
ZZZZZ		04/05/2013 15:57	4		DB-5MS 250(um)
ZZZZZ		04/05/2013 16:20	4		DB-5MS 250(um)
ZZZZZ		04/05/2013 16:38	4		DB-5MS 250(um)
ZZZZZ		04/05/2013 16:57	4		DB-5MS 250(um)
680-88767-41	CV0509DD-CS	04/05/2013 17:15	1	1CD05020.D	DB-5MS 250(um)
680-88767-41 MS	CV0509DD-CS MS	04/05/2013 17:33	1	1CD05021.D	DB-5MS 250(um)
680-88767-41 MSD	CV0509DD-CS MSD	04/05/2013 17:52	1	1CD05022.D	DB-5MS 250(um)
680-88767-42	CV0509EE-CS	04/05/2013 18:10	1	1CD05023.D	DB-5MS 250(um)
680-88767-43	CV0509FF-CS	04/05/2013 18:28	1	1CD05024.D	DB-5MS 250(um)
680-88767-44	CV0509GG-CS	04/05/2013 18:47	4	1CD05025.D	DB-5MS 250(um)
680-88767-45	CV0509HH-CS	04/05/2013 19:05	1	1CD05026.D	DB-5MS 250(um)
680-88767-46	CV0509HH-CSD	04/05/2013 19:23	1	1CD05027.D	DB-5MS 250(um)
680-88767-47	CV0509AG-GS	04/05/2013 19:42	4	1CD05028.D	DB-5MS 250(um)
680-88767-48	CV0509AH-GS	04/05/2013 20:00	4	1CD05029.D	DB-5MS 250(um)
680-88767-49	CV0509AI-GS	04/05/2013 20:18	4	1CD05030.D	DB-5MS 250(um)
680-88767-50	CV0509AJ-GS	04/05/2013 20:37	1	1CD05031.D	DB-5MS 250(um)
MB 660-136104/1-A		04/05/2013 20:55	1	1CD05032.D	DB-5MS 250(um)
LCS 660-136104/2-A		04/05/2013 21:13	1	1CD05033.D	DB-5MS 250(um)
680-88767-51	CV0509AK-GS	04/05/2013 21:32	1	1CD05034.D	DB-5MS 250(um)
680-88767-52	CV0509AL-GS	04/05/2013 21:50	4	1CD05035.D	DB-5MS 250(um)
680-88767-53	CV0509AM-GS	04/05/2013 22:09	1	1CD05036.D	DB-5MS 250(um)
680-88767-54	CV0509AN-GS	04/05/2013 22:27	1	1CD05037.D	DB-5MS 250(um)
ZZZZZ		04/05/2013 22:45	4		DB-5MS 250(um)
680-88811-A-1-B MS		04/05/2013 23:04	4	1CD05039.D	DB-5MS 250(um)
680-88811-A-1-C MSD		04/05/2013 23:22	4	1CD05040.D	DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-3

SDG No.: 68088767-3

Batch Number: 136087 Batch Start Date: 04/03/13 15:12 Batch Analyst:

Batch Method: 3546 Batch End Date: 04/04/13 13:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00178
MB 660-136087/1		3546, 8270C LL		14.98 g	1 mL		1 mL
LCS 660-136087/2		3546, 8270C LL		15.35 g	1 mL	1 mL	1 mL
680-88767-A-41	CV0509DD-CS	3546, 8270C LL	T	14.96 g	1 mL		1 mL
680-88767-A-41 MS	CV0509DD-CS	3546, 8270C LL	T	14.96 g	1 mL	1 mL	1 mL
680-88767-A-41 MSD	CV0509DD-CS	3546, 8270C LL	T	14.96 g	1 mL	1 mL	1 mL
680-88767-A-42	CV0509EE-CS	3546, 8270C LL	T	15.22 g	1 mL		1 mL
680-88767-A-43	CV0509FF-CS	3546, 8270C LL	T	14.98 g	1 mL		1 mL
680-88767-A-44	CV0509GG-CS	3546, 8270C LL	T	15.46 g	1 mL		1 mL
680-88767-A-45	CV0509HH-CS	3546, 8270C LL	T	14.98 g	1 mL		1 mL
680-88767-A-46	CV0509HH-CSD	3546, 8270C LL	T	15.04 g	1 mL		1 mL
680-88767-A-47	CV0509AG-GS	3546, 8270C LL	T	15.14 g	1 mL		1 mL
680-88767-A-48	CV0509AH-GS	3546, 8270C LL	T	15.01 g	1 mL		1 mL
680-88767-A-49	CV0509AI-GS	3546, 8270C LL	T	15.25 g	1 mL		1 mL
680-88767-A-50	CV0509AJ-GS	3546, 8270C LL	T	14.92 g	1 mL		1 mL

Batch Notes	
Acetone Lot #	EX-ACETON BOT 50
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 CYCL55
MeCl2/Acetone Lot #	DCM/ACETON62
Microwave Start Time	17:30 4/3/13
Microwave Stop Time	18:05 4/3/13
Na2SO4 Lot Number	EX-NA2S04A 65
Ottawa Sand Lot #	EX-OTTOWA SAND 14
Person's name who did the prep	SAUREL
SOP Number	TP-EX-014
Person who witnessed spiking	SELF
Surrogate Lot Number	EXLLSURINT 178
Water Bath ID	TURBOVAP2 #1-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

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

8270C LL

Cerome, Saurel

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-3

SDG No.: 68088767-3

Batch Number: 136104 Batch Start Date: 04/04/13 10:07 Batch Analyst:

Batch Method: 3546 Batch End Date: 04/04/13 18:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00178
MB 660-136104/1		3546, 8270C LL		15.14 g	1 mL		1 mL
LCS 660-136104/2		3546, 8270C LL		15.25 g	1 mL	1 mL	1 mL
680-88767-A-51	CV0509AK-GS	3546, 8270C LL	T	15.07 g	1 mL		1 mL
680-88767-A-52	CV0509AL-GS	3546, 8270C LL	T	15.07 g	1 mL		1 mL
680-88767-A-53	CV0509AM-GS	3546, 8270C LL	T	15.12 g	1 mL		1 mL
680-88767-A-54	CV0509AN-GS	3546, 8270C LL	T	15.15 g	1 mL		1 mL
680-88811-A-1 MS		3546, 8270C LL	T	15.13 g	1 mL	1 mL	1 mL
680-88811-A-1 MSD		3546, 8270C LL	T	15.13 g	1 mL	1 mL	1 mL

Batch Notes	
Acetone Lot #	EX-ACETON BOT 50
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 55
MeCl2/Acetone Lot #	DCM/ACETON 62
Microwave Start Time	11:20 4/4/13
Microwave Stop Time	11:55 4/4/13
Na2SO4 Lot Number	EX-NA2S04A 65
Ottawa Sand Lot #	EX-OTTOWA SAND 14
Person's name who did the prep	SAUREL
SOP Number	TP-EX-014
Person who witnessed spiking	RYAN
Surrogate Lot Number	EXLLSURINT 178
Water Bath ID	TURBOVAP2 #1-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

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

8270C LL

Cerome, Saurel

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88767-3

SDG No.: 68088767-3

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0509DD-CS	680-88767-41
CV0509EE-CS	680-88767-42
CV0509FF-CS	680-88767-43
CV0509GG-CS	680-88767-44
CV0509HH-CS	680-88767-45
CV0509HH-CSD	680-88767-46
CV0509AG-GS	680-88767-47
CV0509AH-GS	680-88767-48
CV0509AI-GS	680-88767-49
CV0509AJ-GS	680-88767-50
CV0509AK-GS	680-88767-51
CV0509AL-GS	680-88767-52
CV0509AM-GS	680-88767-53
CV0509AN-GS	680-88767-54

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88767-3

SDG Number: 68088767-3

Matrix: Solid Instrument ID: Moisture

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88767-3

SDG Number: 68088767-3

Matrix: Solid Instrument ID: Moisture

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88767-3

SDG Number: 68088767-3

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88767-3

SDG Number: 68088767-3

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88767-3

SDG No.: 68088767-3

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																				
680-88767-42	1	T	11:11	X																			
ZZZZZZ			11:42																				
ZZZZZZ			11:52																				
ZZZZZZ			11:55																				
ZZZZZZ			12:08																				
ZZZZZZ			12:20																				
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.: 680-88767-3

SDG No.: 68088767-3

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																				
680-88767-A-21 MS	1	T	10:07	X																			
680-88767-A-21 MSD	1	T	10:07	X																			
ZZZZZZ			10:07																				
680-88767-A-14 MS	1	T	10:07	X																			
680-88767-A-14 MSD	1	T	10:07	X																			
680-88767-43	1	T	10:07	X																			
680-88767-53	1	T	10:07	X																			
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
680-88767-41	1	T	10:07	X																			
680-88767-A-41 MS	1	T	10:07	X																			
680-88767-A-41 MSD	1	T	10:07	X																			
680-88767-49	1	T	10:07	X																			
ZZZZZZ			10:07																				
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ZZZZZZ			10:07																				
680-88767-52	1	T	10:07	X																			
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
680-88767-47	1	T	10:07	X																			
ZZZZZZ			10:07																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88767-3

SDG No.: 68088767-3

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																				
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
680-88767-50	1	T	10:07	X																			
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
680-88767-45	1	T	10:07	X																			
680-88767-48	1	T	10:07	X																			
680-88767-54	1	T	10:07	X																			
680-88767-46	1	T	10:07	X																			
680-88767-51	1	T	10:07	X																			
680-88767-44	1	T	10:07	X																			
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
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ZZZZZZ			10:07																				

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-3

SDG No.: 68088767-3

Batch Number: 135922 Batch Start Date: 03/29/13 10:07 Batch Analyst:

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry
680-88767-A-21 MS		Moisture	T	1	0 g	4.39 g	3.20 g
680-88767-A-21 MSD		Moisture	T	1	0 g	4.39 g	3.20 g
680-88767-A-14 MS		Moisture	T	2	0 g	4.38 g	3.47 g
680-88767-A-14 MSD		Moisture	T	2	0 g	4.38 g	3.47 g
680-88767-A-43	CV0509FF-CS	Moisture	T	3	0 g	5.73 g	4.03 g
680-88767-A-53	CV0509AM-GS	Moisture	T	4	0 g	6.09 g	5.03 g
680-88767-A-41	CV0509DD-CS	Moisture	T	10	0 g	5.79 g	4.76 g
680-88767-A-41 MS		Moisture	T	10	0 g	5.79 g	4.76 g
680-88767-A-41 MSD		Moisture	T	10	0 g	5.79 g	4.76 g
680-88767-A-49	CV0509AI-GS	Moisture	T	11	0 g	4.27 g	3.18 g
680-88767-A-52	CV0509AL-GS	Moisture	T	31	0 g	4.87 g	4.05 g
680-88767-A-47	CV0509AG-GS	Moisture	T	35	0 g	4.76 g	3.73 g
680-88767-A-50	CV0509AJ-GS	Moisture	T	42	0 g	4.62 g	3.42 g
680-88767-A-45	CV0509HH-CS	Moisture	T	45	0 g	4.55 g	3.86 g
680-88767-A-48	CV0509AH-GS	Moisture	T	46	0 g	4.20 g	3.22 g
680-88767-A-54	CV0509AN-GS	Moisture	T	47	0 g	4.62 g	3.09 g
680-88767-A-46	CV0509HH-CSD	Moisture	T	48	0 g	5.00 g	4.09 g
680-88767-A-51	CV0509AK-GS	Moisture	T	49	0 g	4.23 g	2.91 g
680-88767-A-44	CV0509GG-CS	Moisture	T	50	0 g	5.33 g	4.53 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
this reagent.

Moisture

Galio, Andrew

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-3

SDG No.: 68088767-3

Batch Number: 135936 Batch Start Date: 03/29/13 06:29 Batch Analyst:

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	
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	
680-88767-A-42	CV0509EE-CS	Moisture	T	0 g	4.145 g	2.722 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
this reagent.

Moisture

Galio, Andrew

Shipping and Receiving Documents

Serial Number 63530

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

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

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal	PROJECT NO.: 2005148-1356	PROJECT LOCATION (STATE): AL	PAGE 4 OF 5
TAL (LAB) PROJECT MANAGER: ~~R. Henderson~~ Lisa Harvey	P.O. NUMBER:	CONTRACT NO.:	STANDARD REPORT DELIVERY ○ DATE DUE ____
CLIENT (SITE) PM: R. Henderson	CLIENT PHONE: 678-355-5550	CLIENT FAX:	EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE ____
CLIENT NAME: OTIE	CLIENT E-MAIL: LKrebs@otie.com.		
CLIENT ADDRESS:			
COMPANY CONTRACTING THIS WORK (if applicable):			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE — INDICATE

REQUIRED ANALYSIS: LL PAH; SVOC; Metals

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	SVOC	Metals	REMARKS
3-26-13	1420	CV0509AA-CS	C		X			X			
	1435	CV0509BB-CS	C		X			X			
	1446	CV0509CC-CS	C		X			X			
	1448	CV0509CC-CSD	C		X			X			
	1458	CV0509DD-CS	C		X			X			
	1510	CV0509EE-CS	C		X			X			
	1515	CV0509FF-CS	C		X			X			
	1520	CV0509GG-CS	C		X			X			
	1530	CV0509HH-CS	C		X			X			
	1532	CV0509HH-CSD	C		X			X			
	1245	CV0509AG-GS	C		X			X			
	1250	CV0509AH-GS	C		X			X			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3-27-13	1400						
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 ○		680-88767	1.4 c

TAL8240-680 (1008)

Serial Number 63531

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

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

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal	PROJECT NO.: 2005148-1356	PROJECT LOCATION (STATE): AL	PAGE 5 OF 5
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY ○ DATE DUE
CLIENT (SITE) PM: R. Henderson	CLIENT PHONE: 678-355-5550	CLIENT FAX	EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE
CLIENT NAME: OTIE	CLIENT E-MAIL: LKrebs@otie.com		
CLIENT ADDRESS			
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	SVOC	Metals								REMARKS
								PRESERVATIVE										
								NUMBER OF CONTAINERS SUBMITTED										
3-26-13	1325	CV0509 AI-GS	G		X			X										
	1330	CV0509 AJ-GS	G		X			X										
	1535	CV0509 AK-GS	G		X			X										
	1537	CV0509 AL-GS	G		X			X		X								
	1539	CV0509 AM-GS	G		X			X										
	1540	CV0509 AN-GS	G		X			X										
3-26-13	1410	CV0509 Y-CS (sieve)	C		X					X								

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Ashlin	3-27-13	1400						
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
	03/28/13	0937	YES ○ NO ○		680-88767	1.4°

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88767-3
SDG Number: 68088767-3

Login Number: 88767
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

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

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88767-3
SDG Number: 68088767-3

Login Number: 88767
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	