

Data Path : Z:\HPCHEM1\BNA M\Data\BM031618\
Data File : BM014627.D
Acq On : 17 Mar 2018 04:10
Operator : SJ/JU
Sample : J1918-15
Misc :
ALS Vial : 24 Sample Multiplier: 1

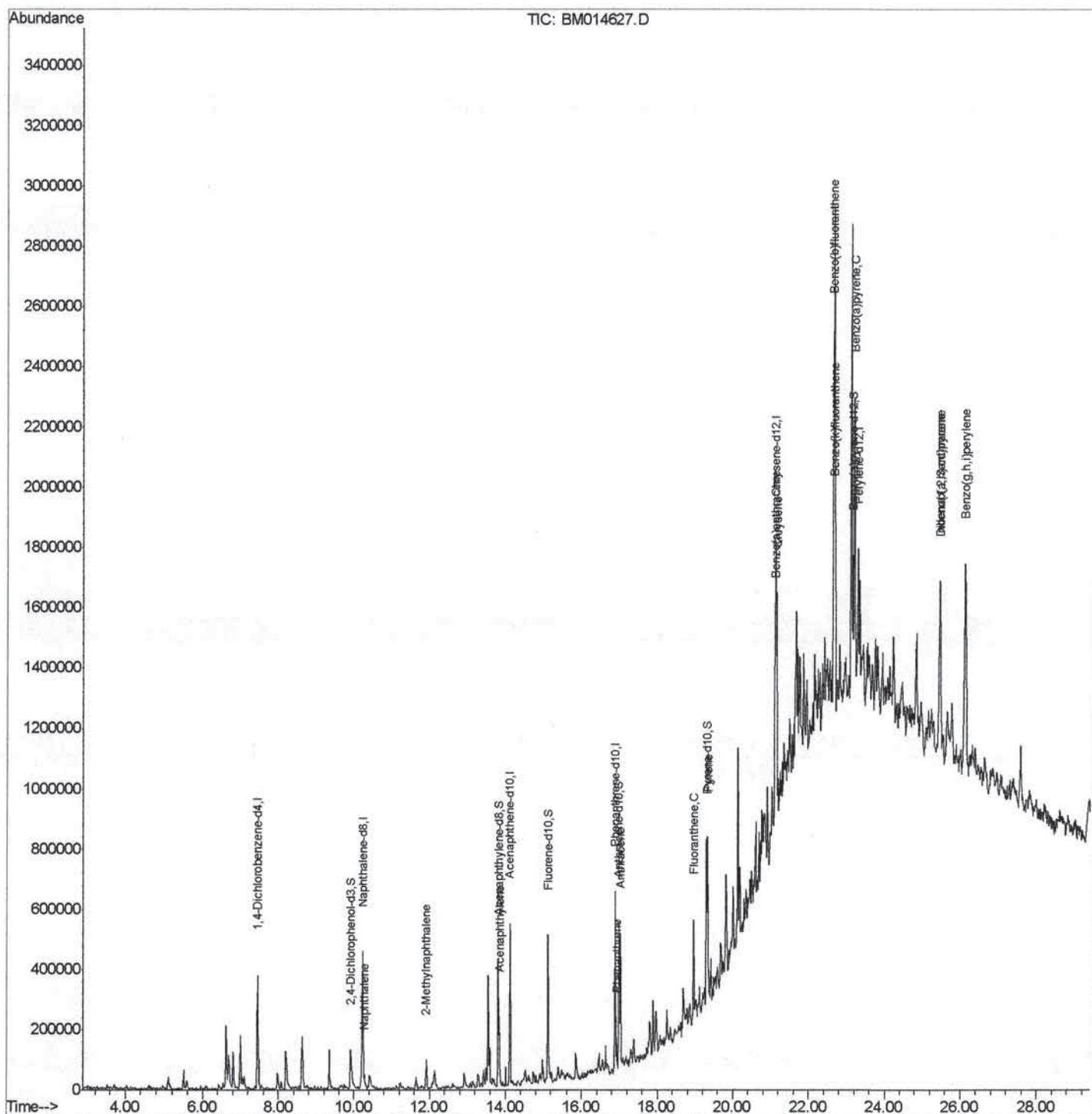
Instrument :
BNA_M
ClientSampleId :
BE8K7

Manual Integrations
APPROVED

Sohil
3/19/2018 2:25:57 PM

Quant Time: Mar 17 05:45:35 2018
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM031518-PAH.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Mar 17 03:22:03 2018
Response via : Initial Calibration

Sohil
3/19/2018 2:25:57 PM



Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA M\DATA\BM031618\
 Data File : BM014627.D
 Acq On : 17 Mar 2018 04:10
 Operator : SJ/JU
 Sample : J1918-15
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

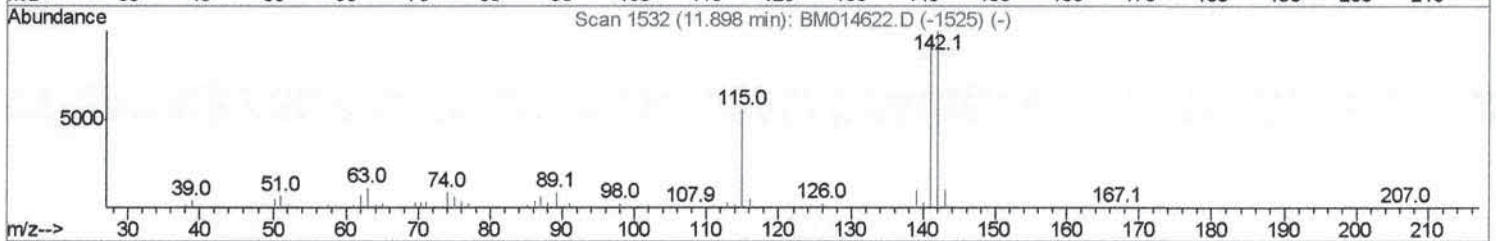
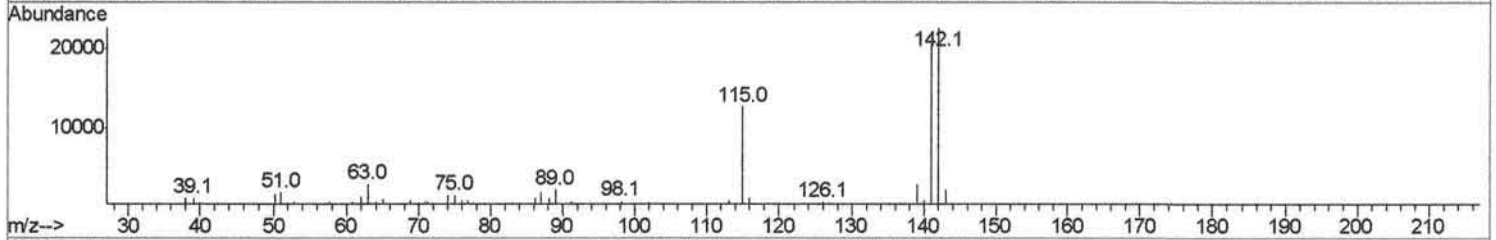
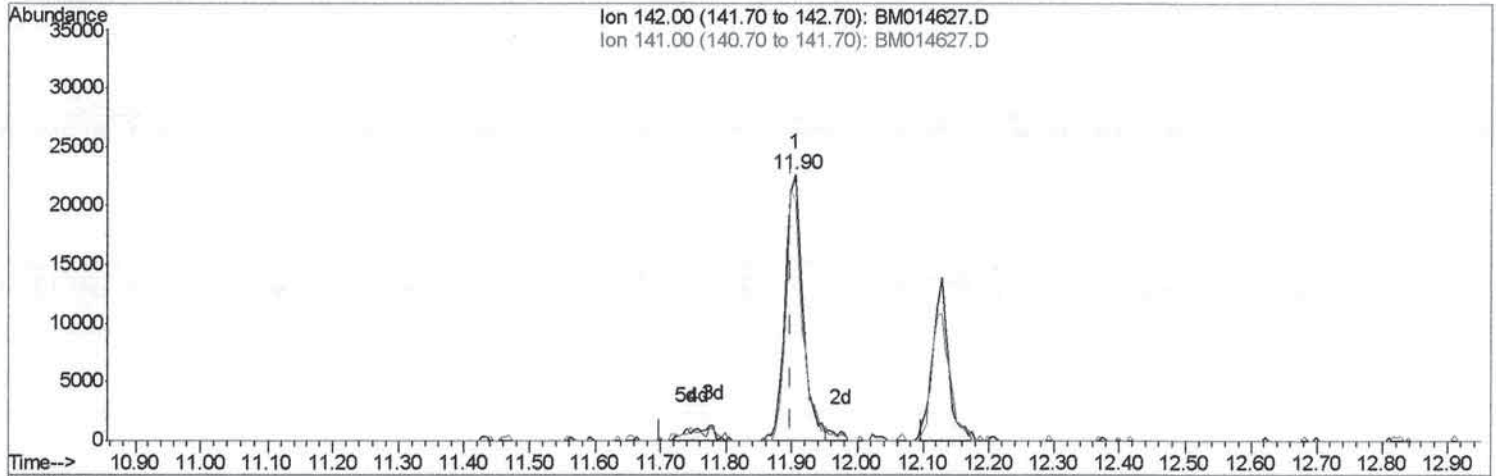
Instrument :
 BNA_M
 ClientSampleId :
 BE8K7

Manual Integrations
 APPROVED

Sohil
 3/19/2018 2:25:57 PM

Quant Time: Mar 17 04:50:03 2018
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM031518-PAH.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Mar 17 03:22:03 2018
 Response via : Initial Calibration

Sohil
 3/19/2018 2:25:57 PM



TIC: BM014627.D

(5) 2-Methylnaphthalene

11.904min (+0.006) 3.93ng/ul

response 42817

Ion	Exp%	Act%
142.00	100	100
141.00	92.60	90.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA M\DATA\BM031618\
Data File : BM014627.D
Acq On : 17 Mar 2018 04:10
Operator : SJ/JU
Sample : J1918-15
Misc :
ALS Vial : 24 Sample Multiplier: 1

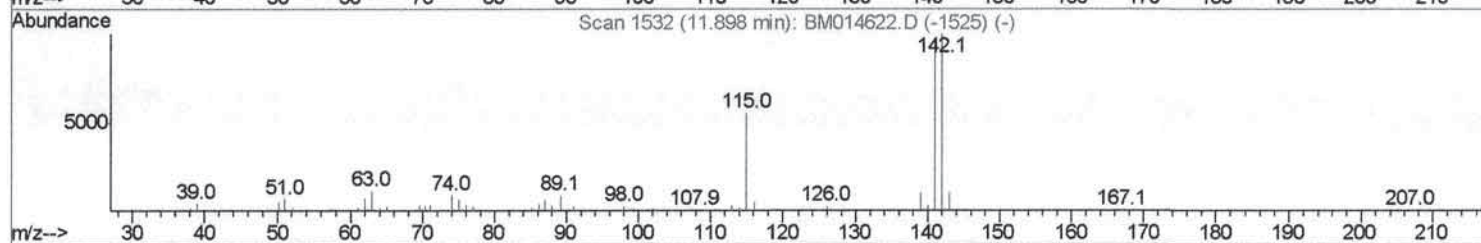
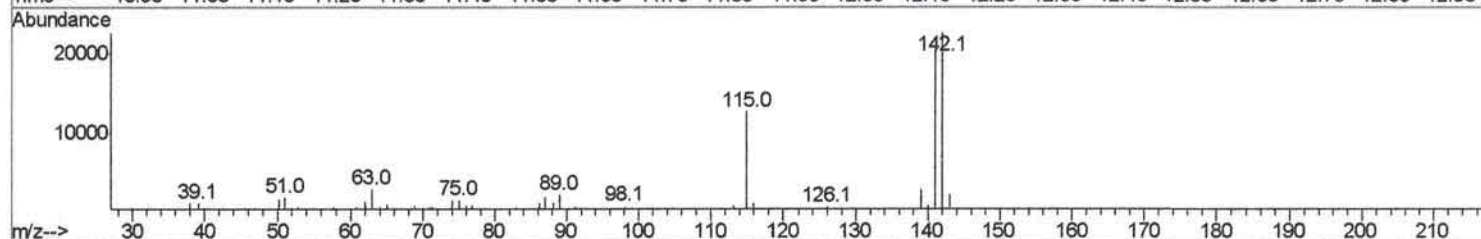
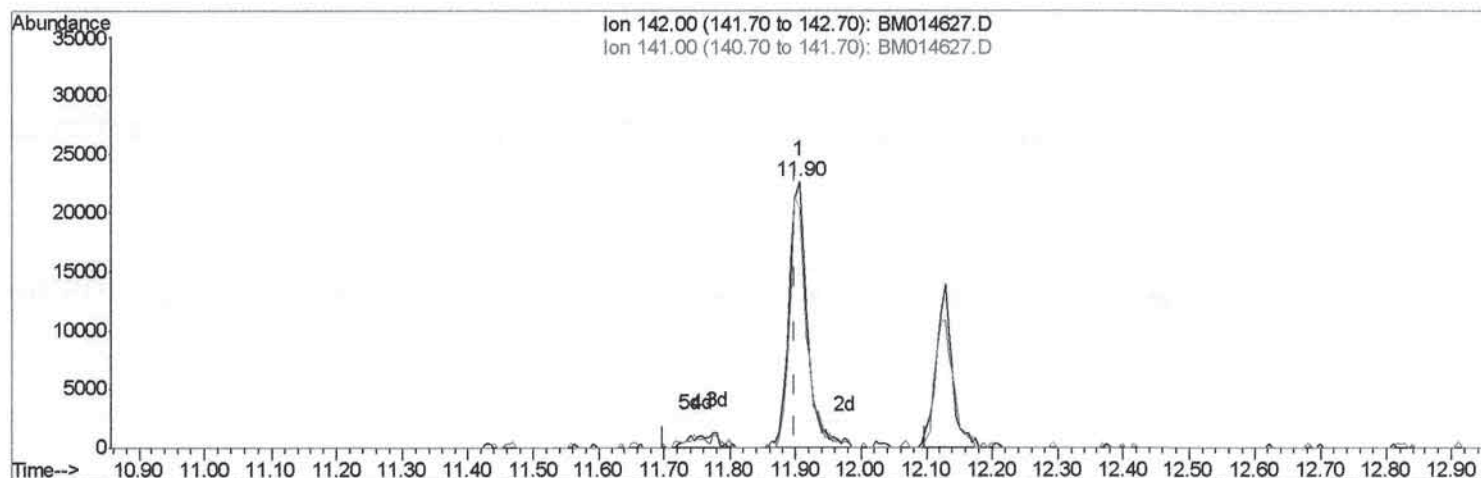
Instrument :
BNA_M
ClientSampleId :
BE8K7

Manual Integrations
APPROVED

Sohil
3/19/2018 2:25:57 PM

Quant Time: Mar 17 04:50:03 2018
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM031518-PAH.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Mar 17 03:22:03 2018
Response via : Initial Calibration

Sohil
3/19/2018 2:25:57 PM



TIC: BM014627.D

(5) 2-Methylnaphthalene

11.904min (+0.006) 4.04ng/ul m> SJ 3/13/18

response 44059

Ion	Exp%	Act%
142.00	100	100
141.00	92.60	90.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA M\DATA\BM031618\
 Data File : BM014627.D
 Acq On : 17 Mar 2018 04:10
 Operator : SJ/JU
 Sample : J1918-15
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

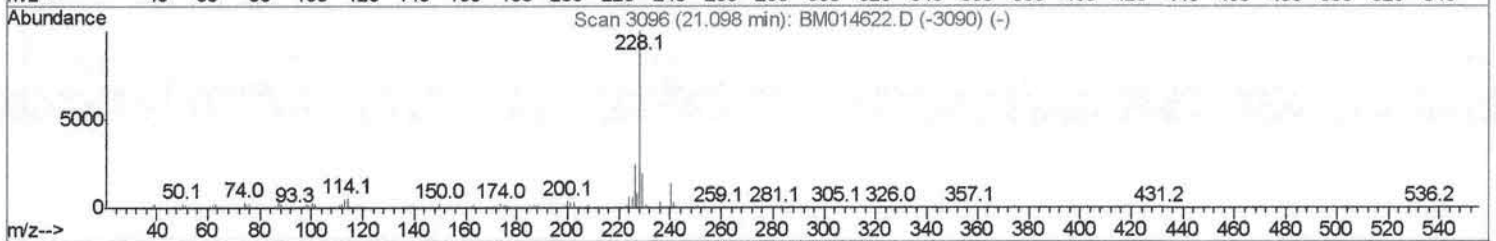
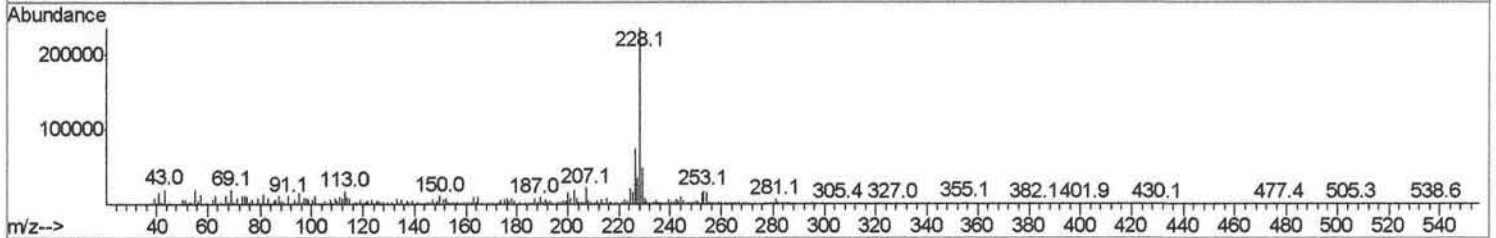
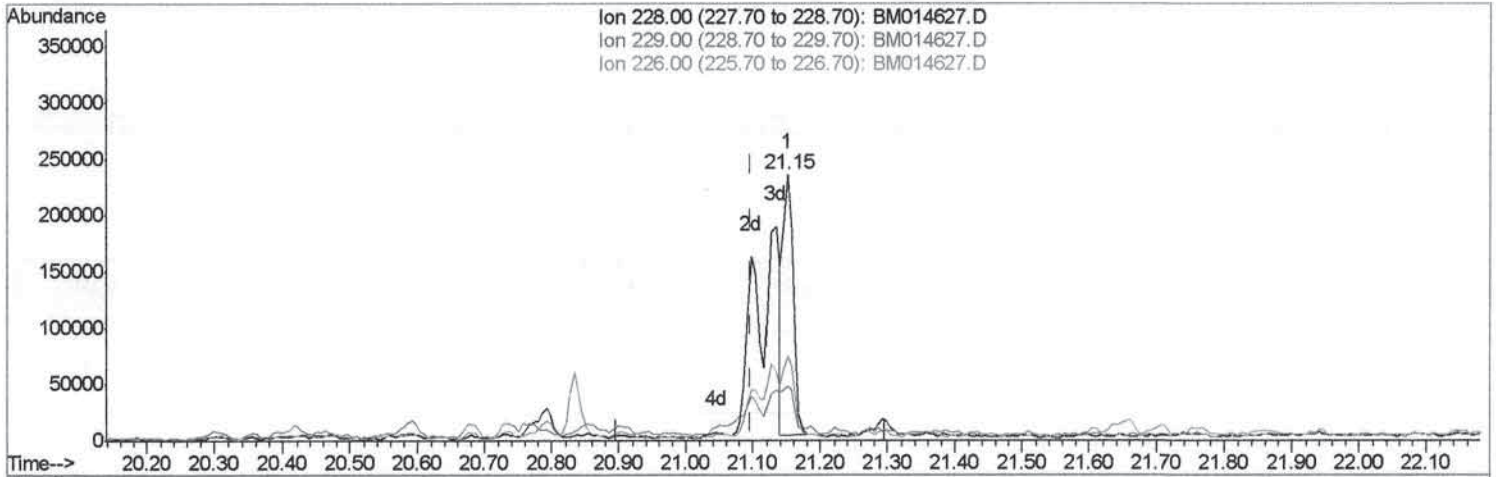
Instrument :
 BNA_M
 ClientSampleId :
 BE8K7

Manual Integrations
 APPROVED

Sohil
 3/19/2018 2:25:57 PM

Quant Time: Mar 17 04:50:03 2018
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM031518-PAH.M
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Sohil
 3/19/2018 2:25:57 PM



TIC: BM014627.D

(21) Benzo(a)anthracene
 21.150min (+0.053) 14.62ng/ul
 response 247480

Ion	Exp%	Act%
228.00	100	100
229.00	19.20	20.61
226.00	26.70	31.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA M\DATA\BM031618\
 Data File : BM014627.D
 Acq On : 17 Mar 2018 04:10
 Operator : SJ/JU
 Sample : J1918-15
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

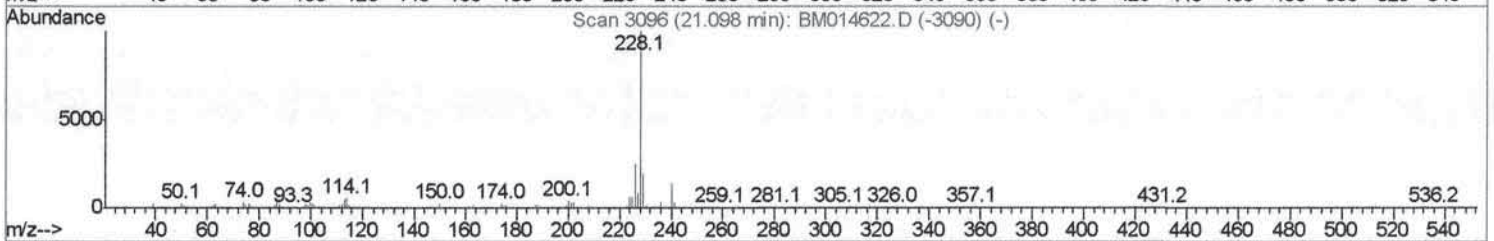
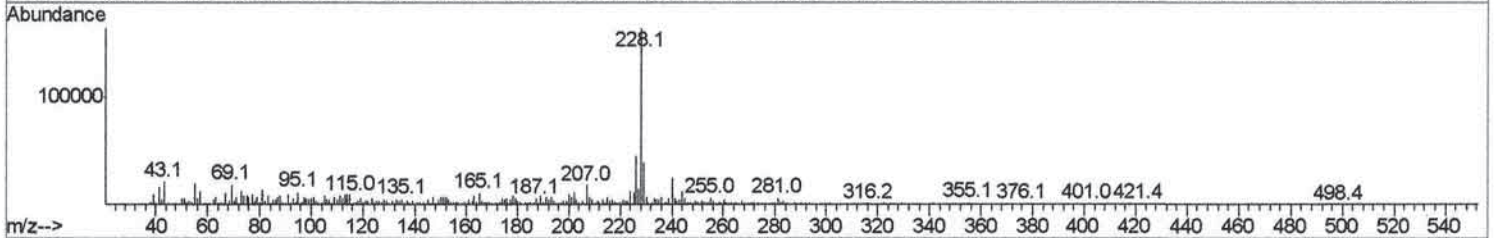
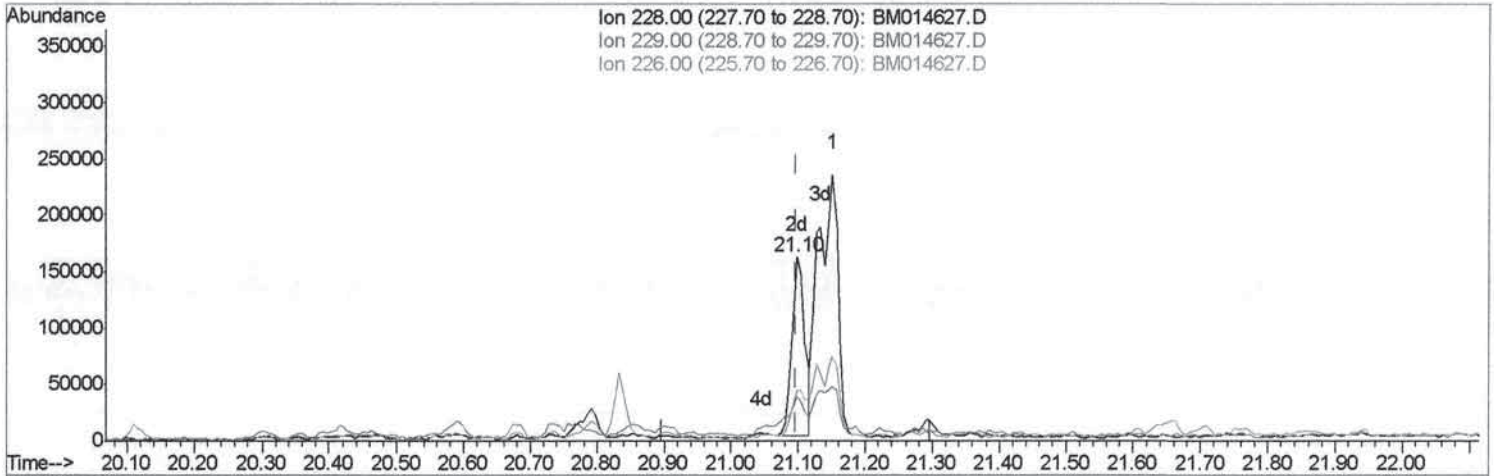
Instrument :
 BNA_M
 ClientSampleId :
 BE8K7

Manual Integrations
 APPROVED

Sohil
 3/19/2018 2:25:57 PM

Quant Time: Mar 17 04:50:03 2018
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Sohil
 3/19/2018 2:25:57 PM



TIC: BM014627.D

(21) Benzo(a)anthracene

21.097min (-0.000) 12.77ng/ul m_y SJ 3/13/18

response 216254

Ion	Exp%	Act%
228.00	100	100
229.00	19.20	24.34#
226.00	26.70	27.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA M\DATA\BM031618\
 Data File : BM014627.D
 Acq On : 17 Mar 2018 04:10
 Operator : SJ/JU
 Sample : J1918-15
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

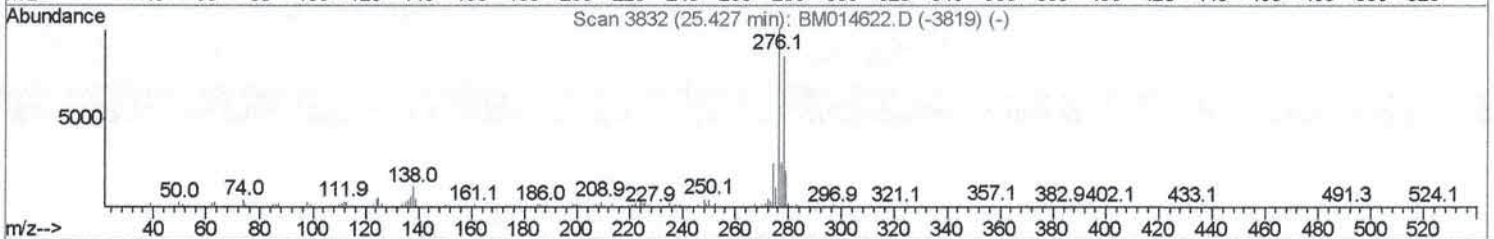
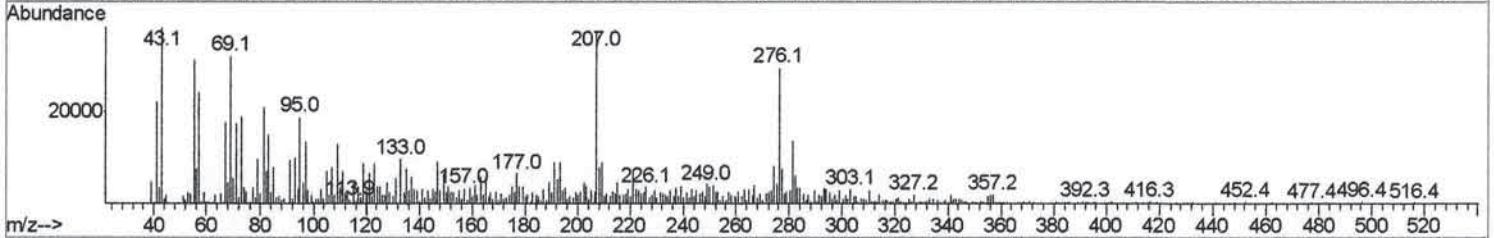
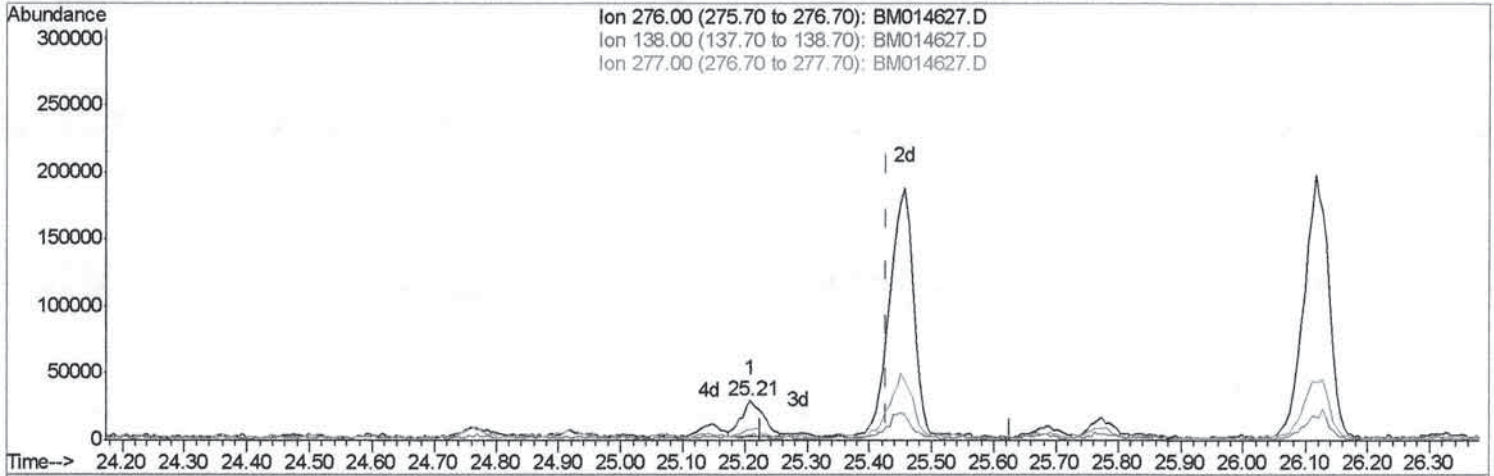
Instrument :
 BNA_M
 ClientSampleId :
 BE8K7

Manual Integrations
 APPROVED

Sohil
 3/19/2018 2:25:57 PM

Quant Time: Mar 17 04:50:03 2018
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM031518-PAH.M
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Sohil
 3/19/2018 2:25:57 PM



TIC: BM014627.D

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

25.209min (-0.218) 4.67ng/ul

response 63919

Ion	Exp%	Act%
276.00	100	100
138.00	11.60	11.43
277.00	24.90	26.63
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA M\DATA\BM031618\
 Data File : BM014627.D
 Acq On : 17 Mar 2018 04:10
 Operator : SJ/JU
 Sample : J1918-15
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

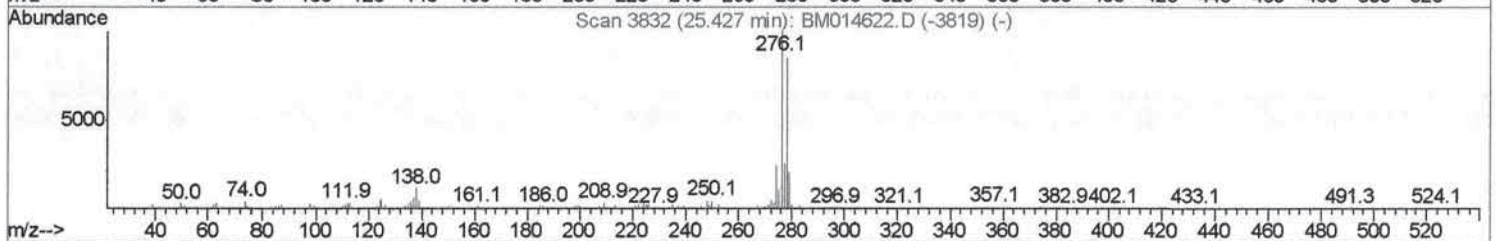
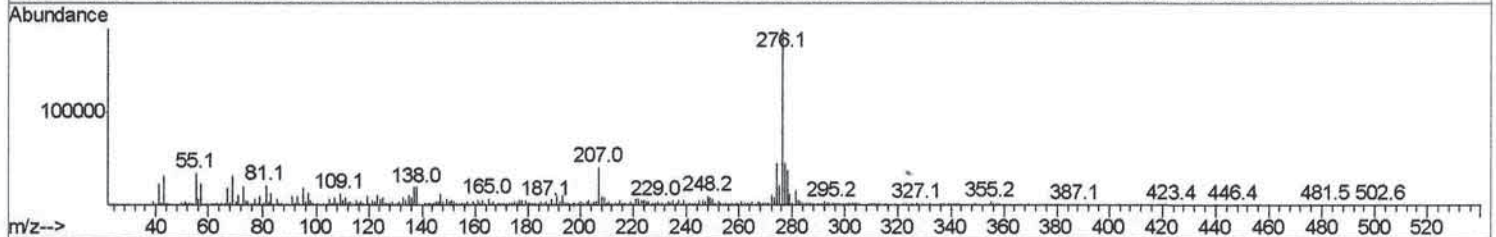
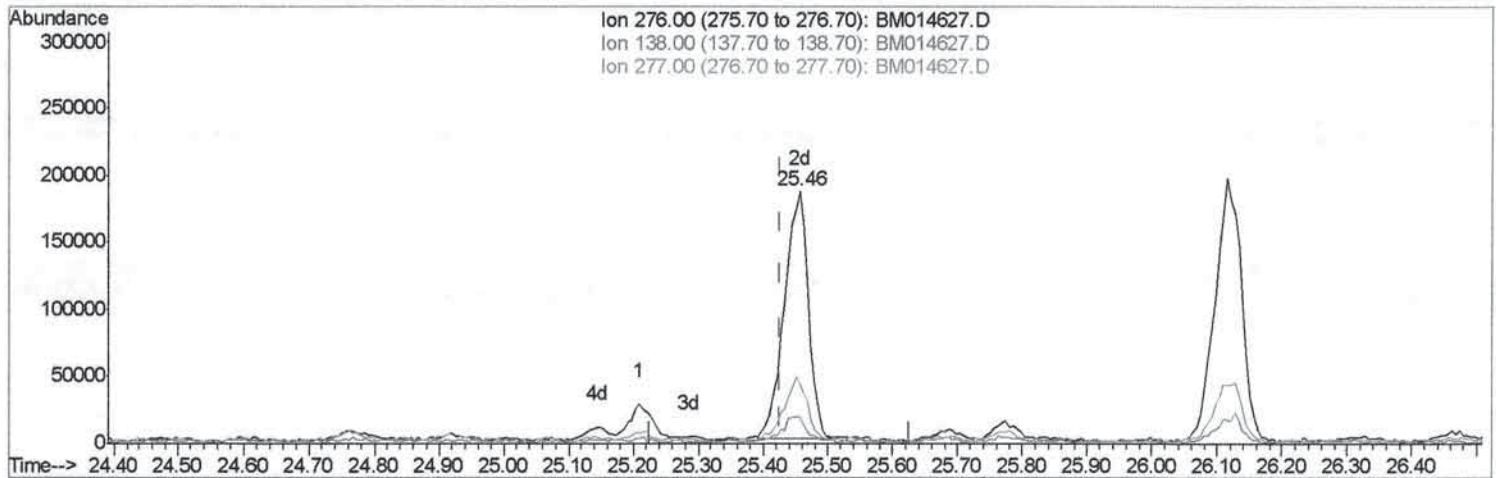
Instrument :
 BNA_M
 ClientSampleId :
 BE8K7

Manual Integrations
 APPROVED

Sohil
 3/19/2018 2:25:57 PM

Quant Time: Mar 17 04:50:03 2018
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM031518-PAH.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Mar 17 03:22:03 2018
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Sohil
 3/19/2018 2:25:57 PM



TIC: BM014627.D

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

25.456min (+0.029) 34.88ng/ul m > SJ 3/13/18

response 477175

Ion	Exp%	Act%
276.00	100	100
138.00	11.60	10.38
277.00	24.90	24.03
0.00	0.00	0.00

```
Data Path   : Z:\HPCHEM1\BNA M\DATA\BM031618\  
Data File  : BM014627.D  
Acq On     : 17 Mar 2018   04:10  
Operator   : SJ/JU  
Sample     : J1918-15  
Misc       :  
ALS Vial   : 24      Sample Multiplier: 1
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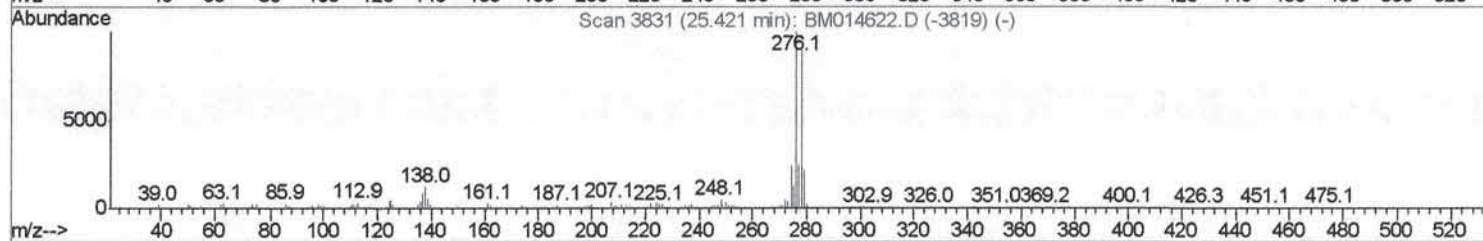
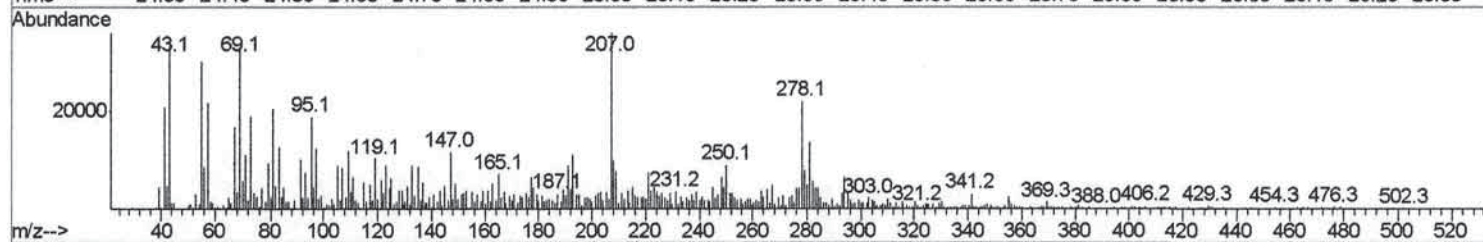
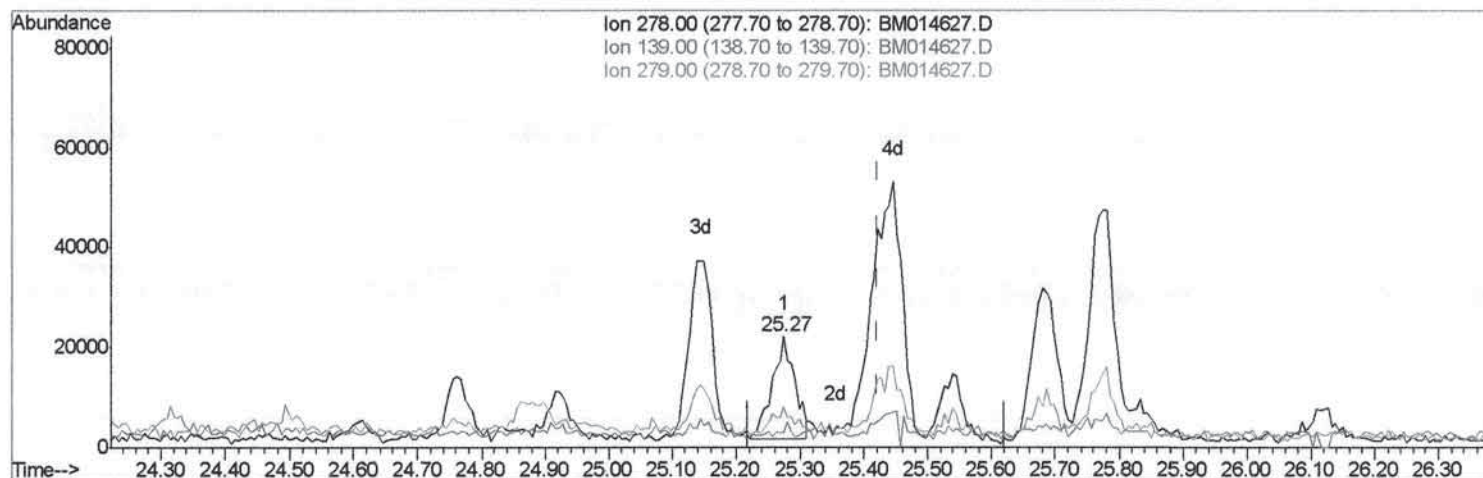
Instrument :
BNA_M
ClientSampleId :
BE8K7

Manual Integrations

Sohil
3/19/2018 2:25:57 PM

Sohil
3/19/2018 2:25:57 PM

Quant Time: Mar 17 04:50:03 2018
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM031518-PAH.M
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QLast Update : Sat Mar 17 03:22:03 2018
Response via : Initial Calibration



TIC: BM014627.D

(29) Dibenzo(a,h)anthracene

25.274min (-0.147) 4.36ng/ul

response 49895

Ion	Exp%	Act%
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278.00	100	100
--------	-----	-----

139.00 7.30 12.79#

279.00 23.20 36.82#

0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA M\DATA\BM031618\
 Data File : BM014627.D
 Acq On : 17 Mar 2018 04:10
 Operator : SJ/JU
 Sample : J1918-15
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

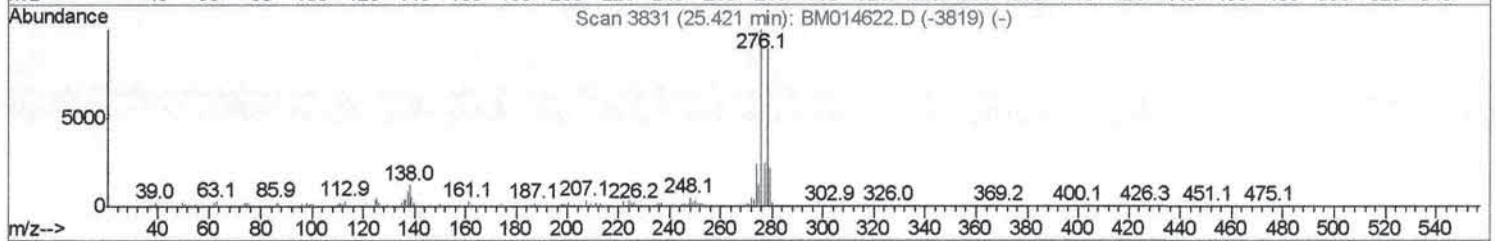
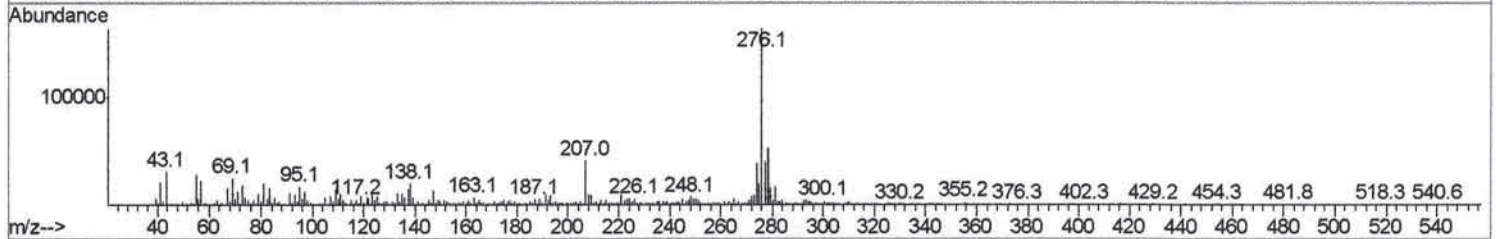
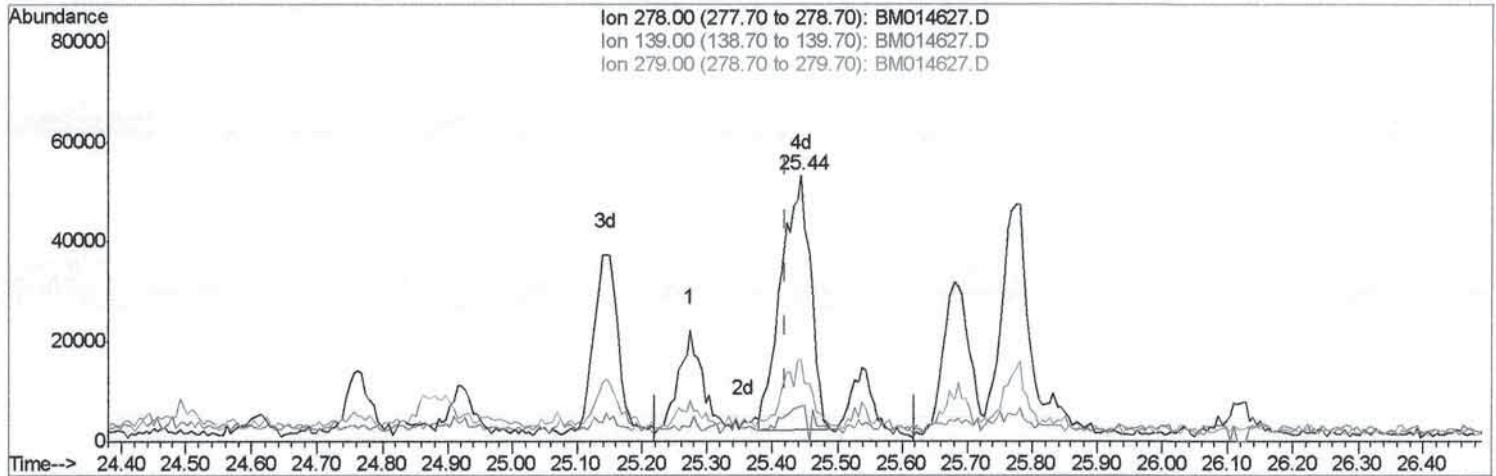
Instrument :
 BNA_M
 ClientSampleId :
 BE8K7

Manual Integrations
 APPROVED

Sohil
 3/19/2018 2:25:57 PM

Quant Time: Mar 17 04:50:03 2018
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM031518-PAH.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Mar 17 03:22:03 2018
 Response via : Initial Calibration

Sohil
 3/19/2018 2:25:57 PM



TIC: BM014627.D

(29) Dibenzo(a,h)anthracene

25.444min (+0.023) 14.01ng/ul m> SJ 3/13/18

response 160382

Ion	Exp%	Act%
278.00	100	100
139.00	7.30	13.06#
279.00	23.20	30.86#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA M\DATA\BM031618\
 Data File : BM014627.D
 Acq On : 17 Mar 2018 04:10
 Operator : SJ/JU
 Sample : J1918-15
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

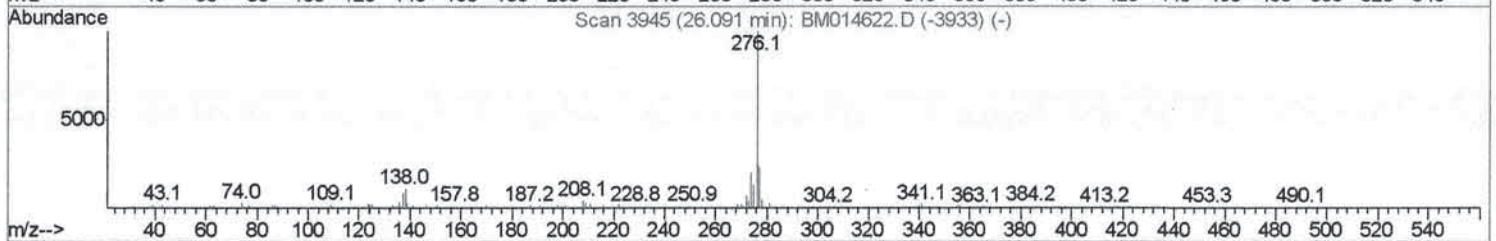
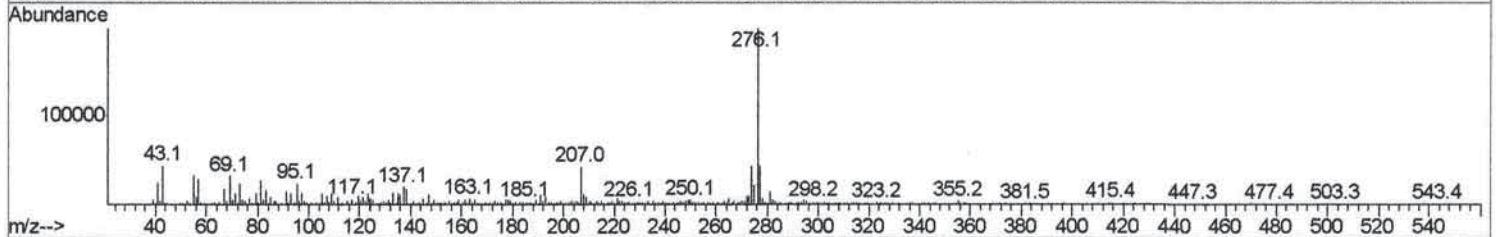
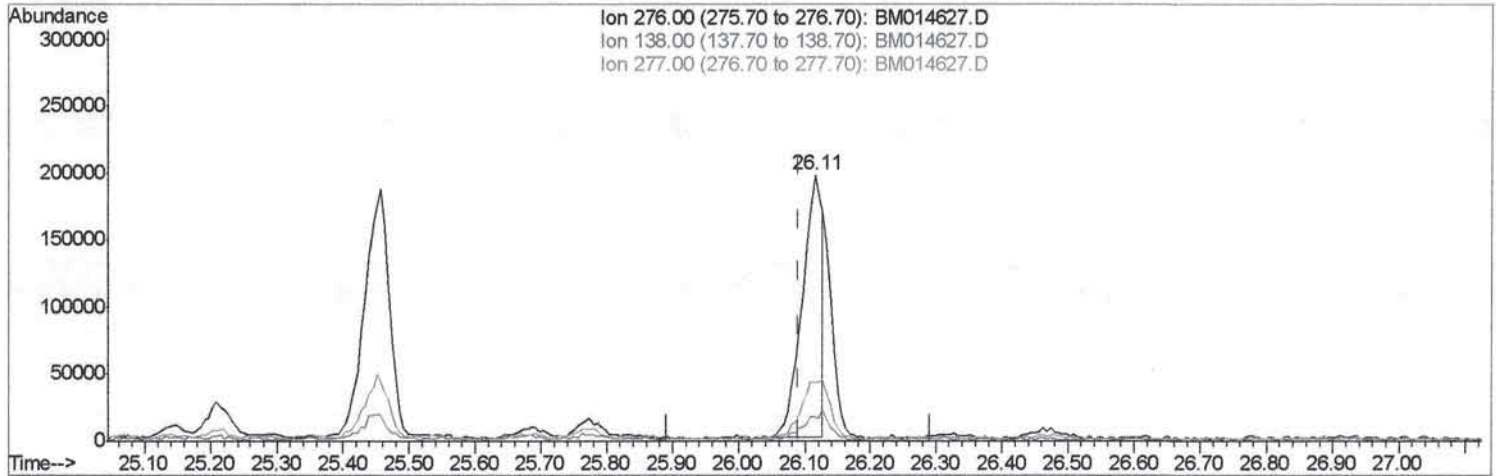
Instrument :
 BNA_M
 ClientSampleId :
 BE8K7

Manual Integrations
 APPROVED

Sohil
 3/19/2018 2:25:57 PM

Quant Time: Mar 17 04:50:03 2018
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM031518-PAH.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Mar 17 03:22:03 2018
 Response via : Initial Calibration

Sohil
 3/19/2018 2:25:57 PM



TIC: BM014627.D

(30) Benzo(g,h,i)perylene

26.115min (+0.023) 38.36ng/ul

response 418043

Ion	Exp%	Act%
276.00	100	100
138.00	10.60	9.17
277.00	23.30	22.17
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA M\DATA\BM031618\
Data File : BM014627.D
Acq On : 17 Mar 2018 04:10
Operator : SJ/JU
Sample : J1918-15
Misc :
ALS Vial : 24 Sample Multiplier: 1

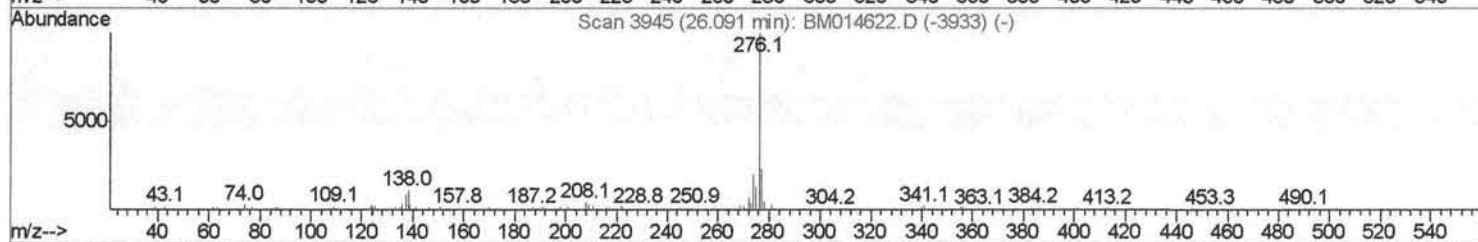
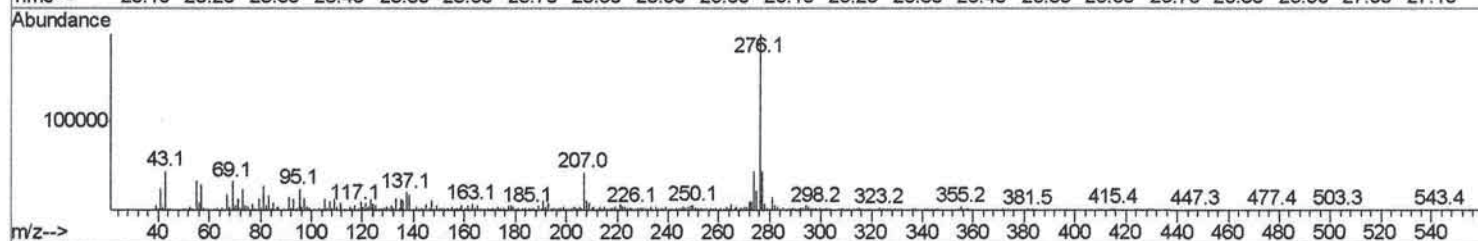
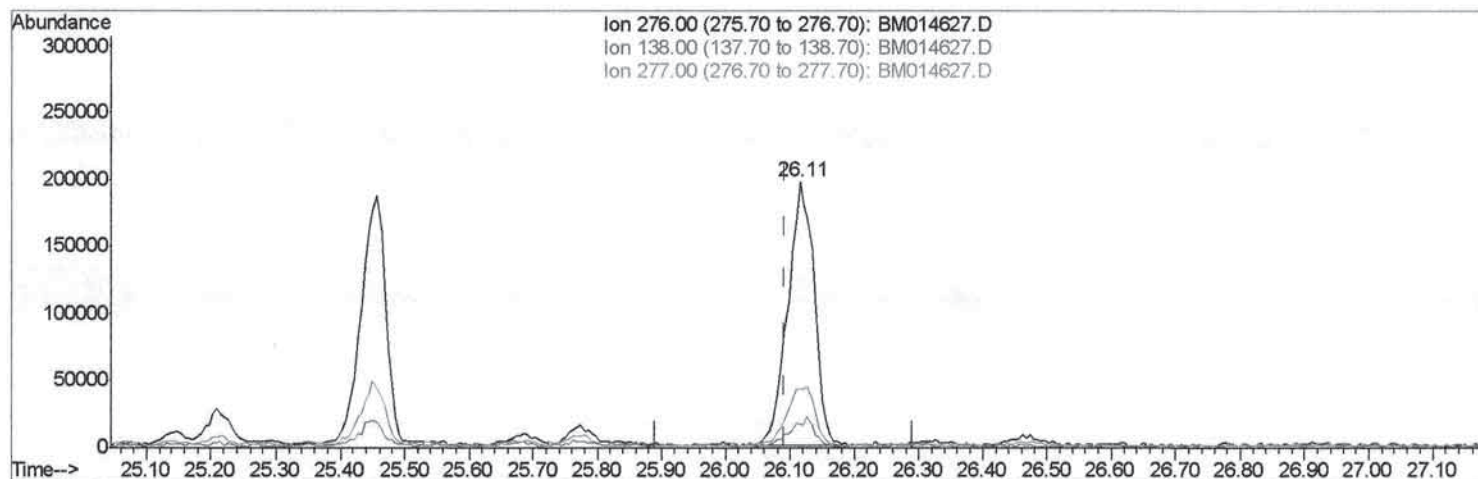
Instrument :
BNA_M
ClientSampleId :
BE8K7

Manual Integrations
APPROVED

Sohil
3/19/2018 2:25:57 PM

Quant Time: Mar 17 04:50:03 2018
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM031518-PAH.M
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QLast Update : Sat Mar 17 03:22:03 2018
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Sohil
3/19/2018 2:25:57 PM



TIC: BM014627.D

(30) Benzo(g,h,i)perylene

26.115min (+0.023) 50.94ng/ul m > 53 3/13/18

response 555120

Ion	Exp%	Act%
276.00	100	100
138.00	10.60	9.17
277.00	23.30	22.17
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA M\DATA\BM031618\
 Data File : BM014627.D
 Acq On : 17 Mar 2018 04:10
 Operator : SJ/JU
 Sample : J1918-15
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

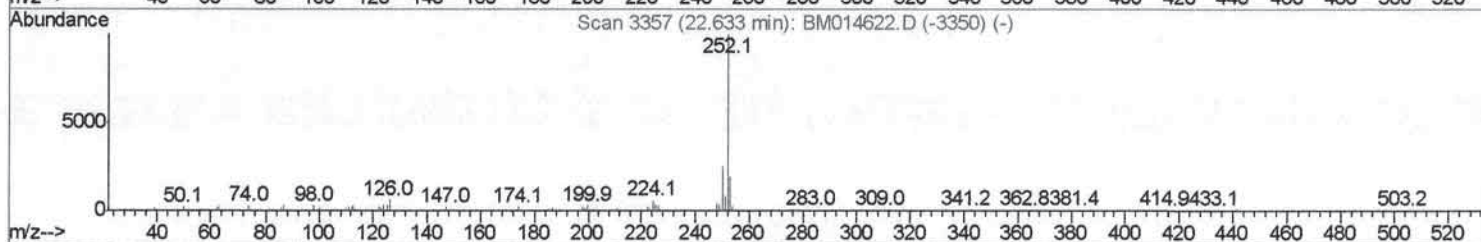
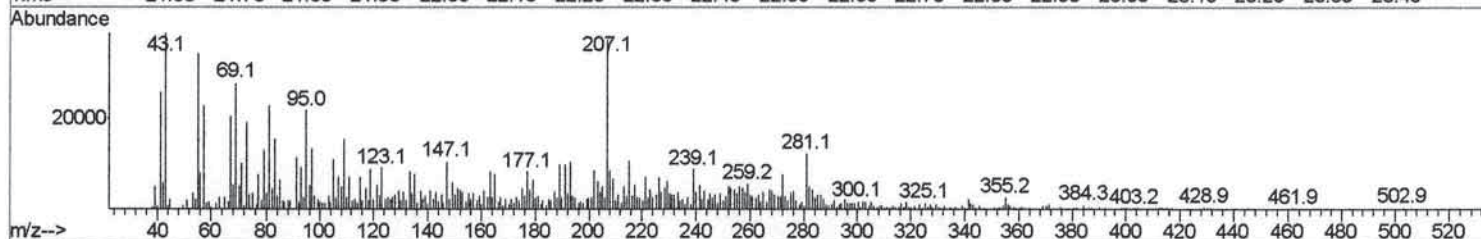
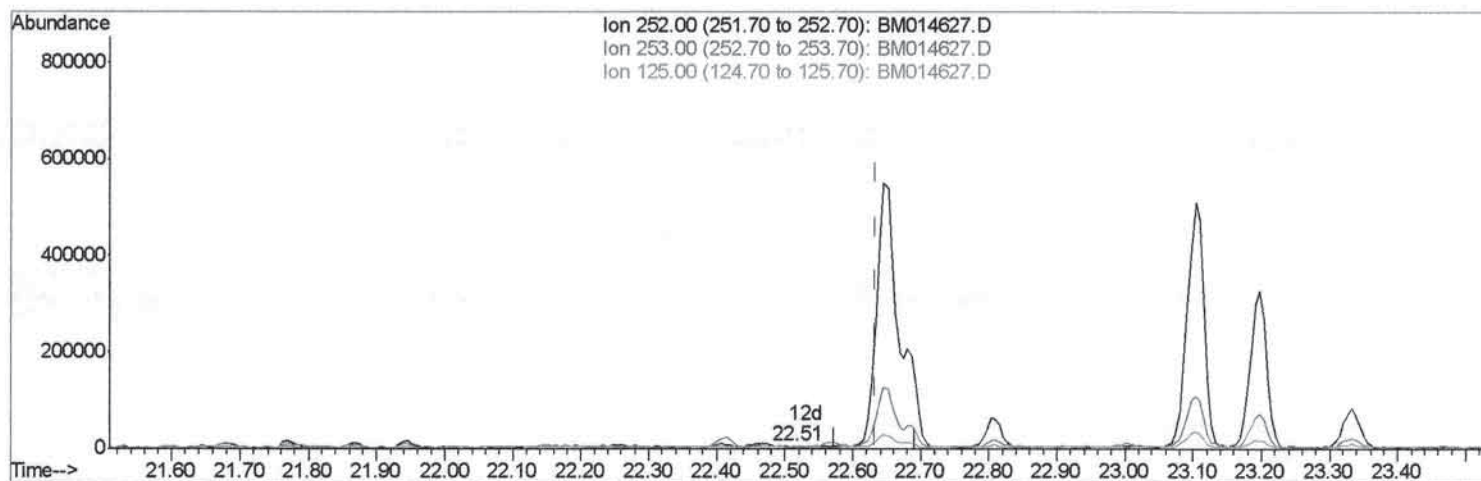
Instrument :
 BNA_M
 ClientSampleId :
 BE8K7

Manual Integrations
 APPROVED

Sohil
 3/19/2018 2:25:57 PM

Quant Time: Mar 17 05:07:01 2018
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM031518-PAH.M
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Sohil
 3/19/2018 2:25:57 PM



TIC: BM014627.D

(24) Benzo(b)fluoranthene
 22.515min (-0.118) 0.09ng/ul
 response 1136

Ion	Exp%	Act%
252.00	100	100
253.00	22.40	95.54#
125.00	4.50	53.86#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA M\DATA\BM031618\
 Data File : BM014627.D
 Acq On : 17 Mar 2018 04:10
 Operator : SJ/JU
 Sample : J1918-15
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

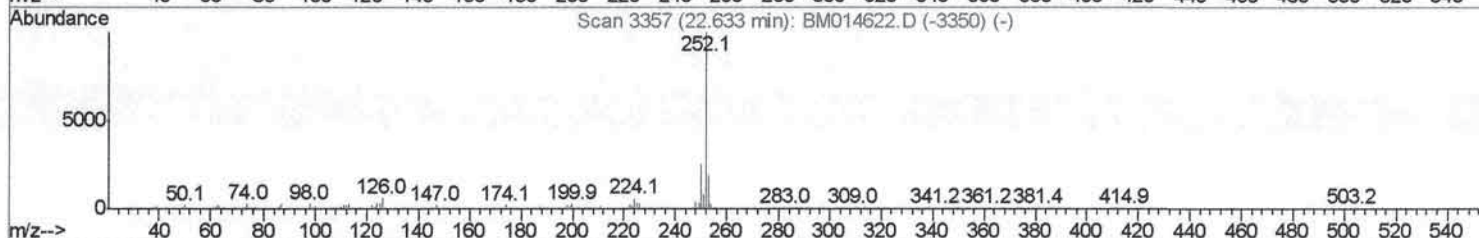
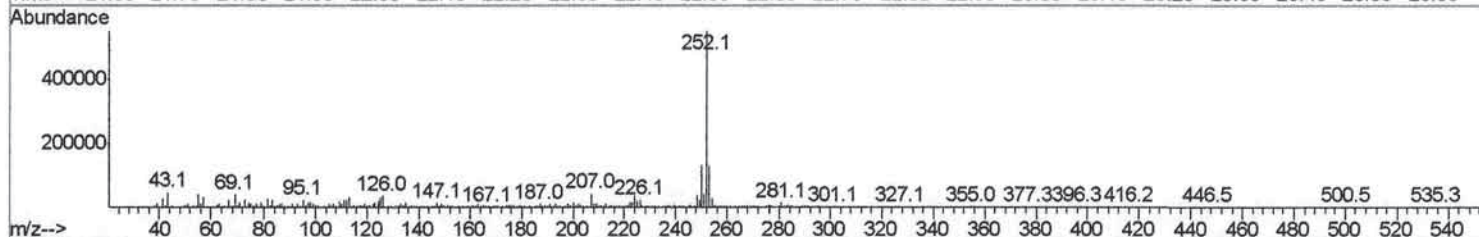
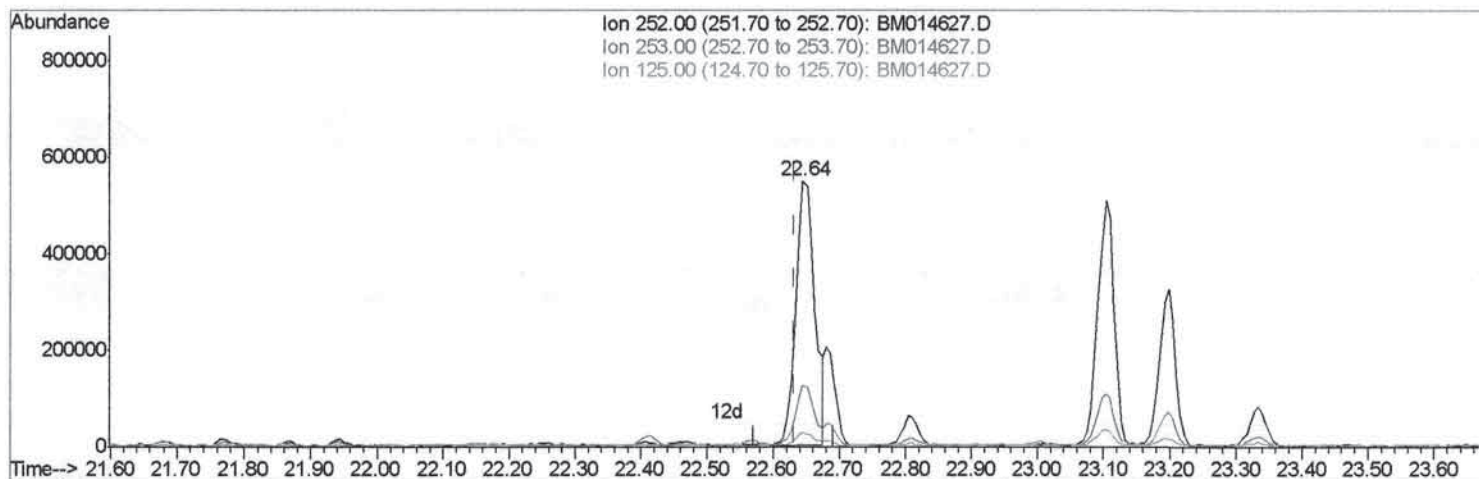
Instrument :
 BNA_M
 ClientSampleId :
 BE8K7

Manual Integrations
 APPROVED

Sohil
 3/19/2018 2:25:57 PM

Quant Time: Mar 17 05:07:01 2018
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM031518-PAH.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Mar 17 03:22:03 2018
 Response via : Initial Calibration

Sohil
 3/19/2018 2:25:57 PM



TIC: BM014627.D

(24) Benzo(b)fluoranthene

22.644min (+0.012) 86.31ng/ul m> SJ 3/13/18

response 1080923

Ion	Exp%	Act%
252.00	100	100
253.00	22.40	23.34
125.00	4.50	5.50#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA M\DATA\BM031618\
 Data File : BM014627.D
 Acq On : 17 Mar 2018 04:10
 Operator : SJ/JU
 Sample : J1918-15
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

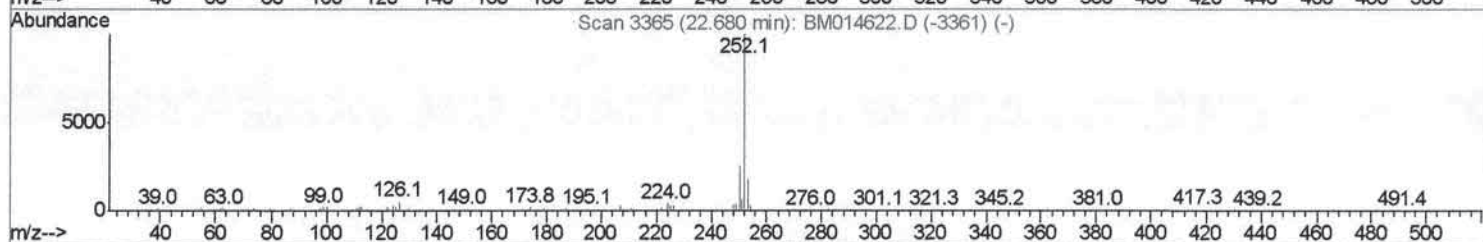
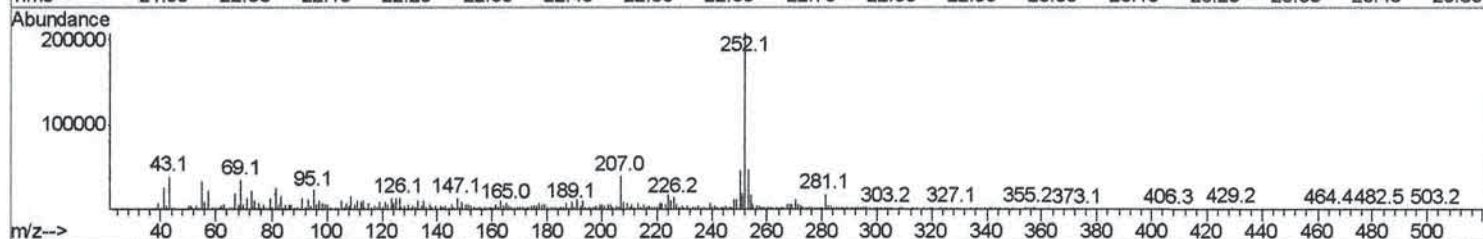
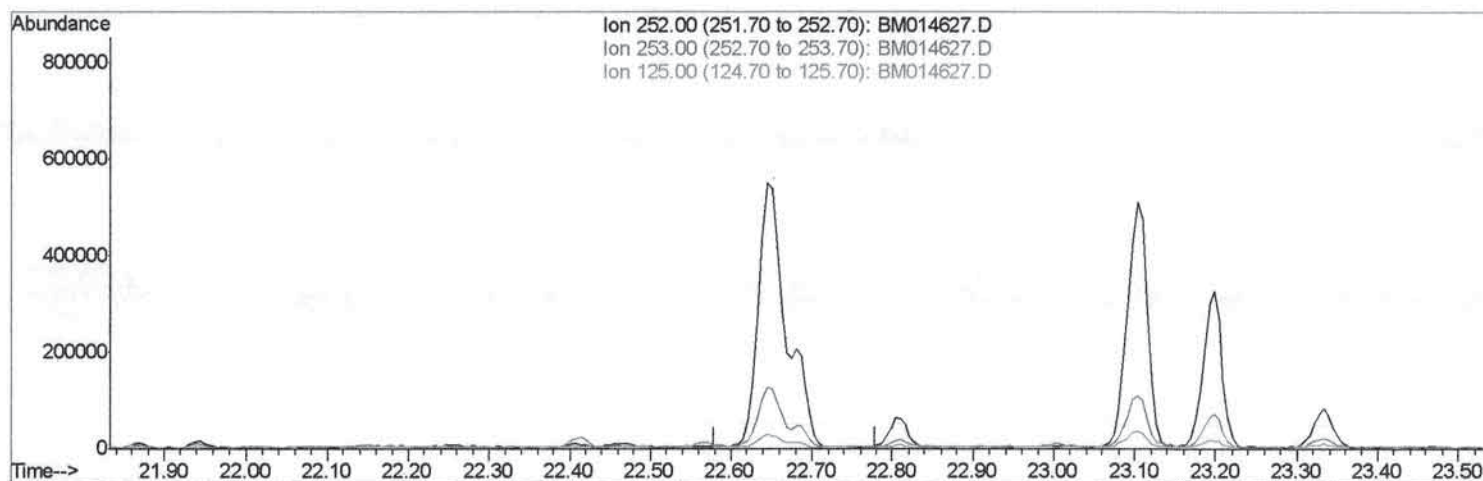
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 ClientSampleId :
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Manual Integrations
 APPROVED

Sohil
 3/19/2018 2:25:57 PM

Quant Time: Mar 17 05:07:01 2018
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM031518-PAH.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Mar 17 03:22:03 2018
 Response via : Initial Calibration

Sohil
 3/19/2018 2:25:57 PM



TIC: BM014627.D

(25) Benzo(k)fluoranthene

22.680min (-22.680) 0.00ng/ul

response 0

Ion	Exp%	Act%
252.00	100	0.00
253.00	21.40	0.00#
125.00	4.30	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA M\DATA\BM031618\
 Data File : BM014627.D
 Acq On : 17 Mar 2018 04:10
 Operator : SJ/JU
 Sample : J1918-15
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

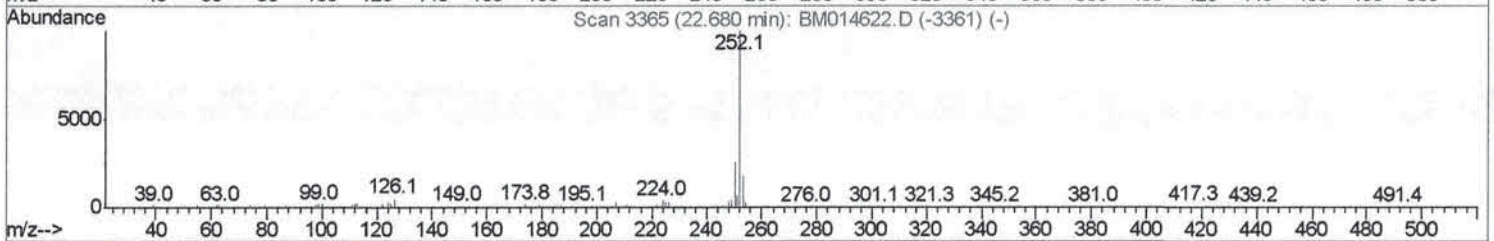
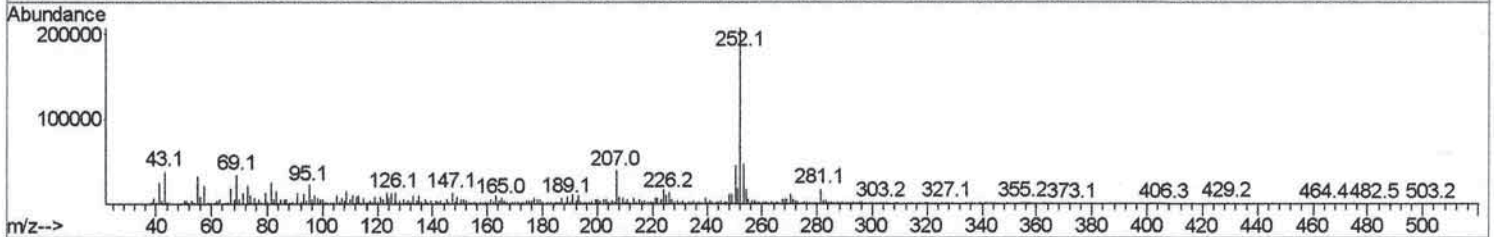
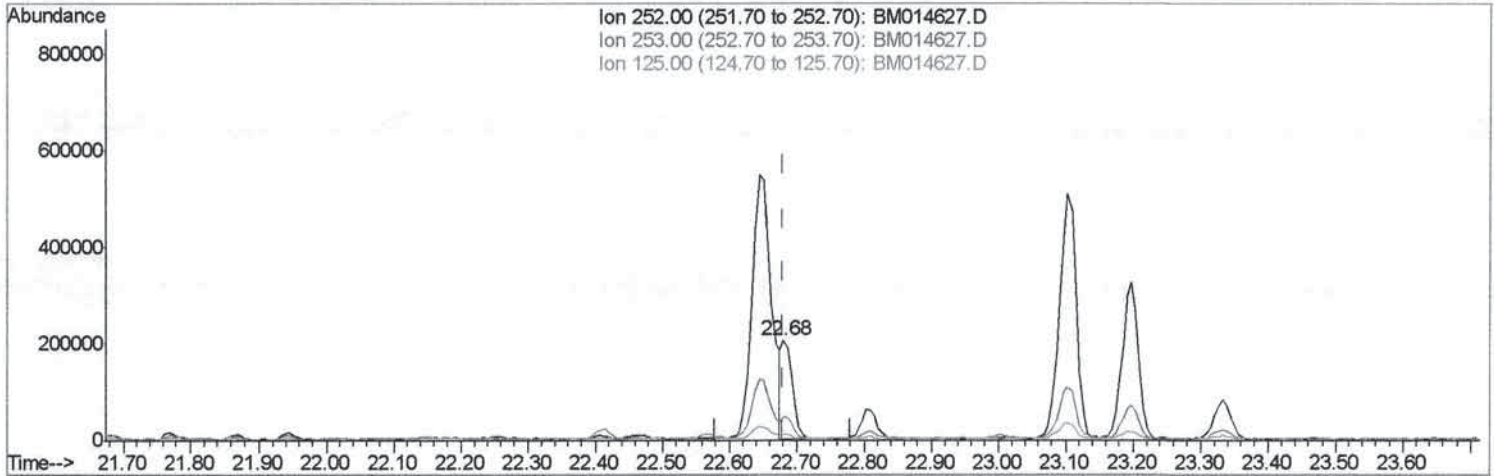
Instrument :
 BNA_M
 ClientSampleId :
 BE8K7

Manual Integrations
 APPROVED

Sohil
 3/19/2018 2:25:57 PM

Quant Time: Mar 17 05:07:01 2018
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM031518-PAH.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Mar 17 03:22:03 2018
 Response via : Initial Calibration

Sohil
 3/19/2018 2:25:57 PM



TIC: BM014627.D

(25) Benzo(k)fluoranthene

22.680min (-0.000) 18.47ng/ul m) SJ 5/13/18

response 219792

Ion	Exp%	Act%
252.00	100	100
253.00	21.40	22.74
125.00	4.30	6.38#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA M\Data\BM031618\
 Data File : BM014627.D
 Acq On : 17 Mar 2018 04:10
 Operator : SJ/JU
 Sample : J1918-15
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

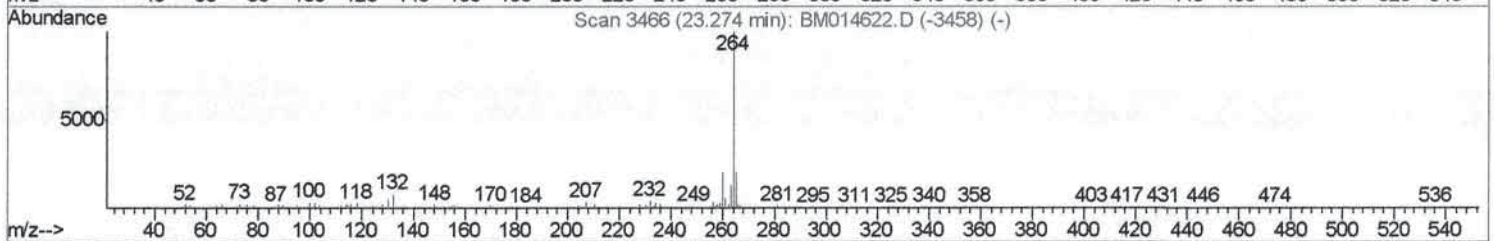
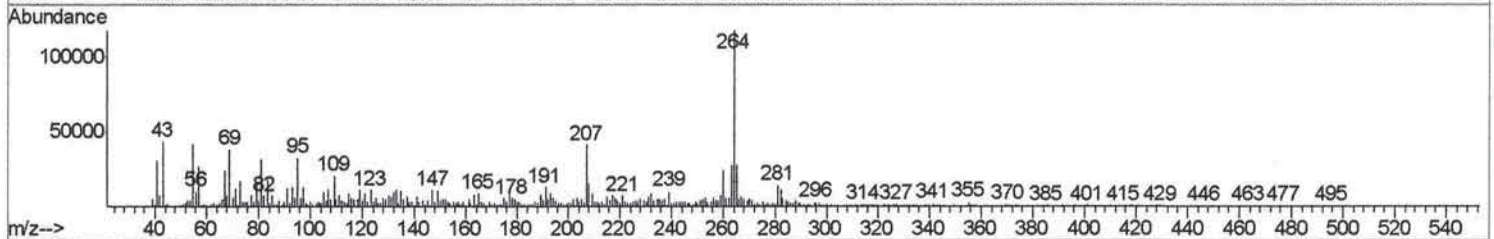
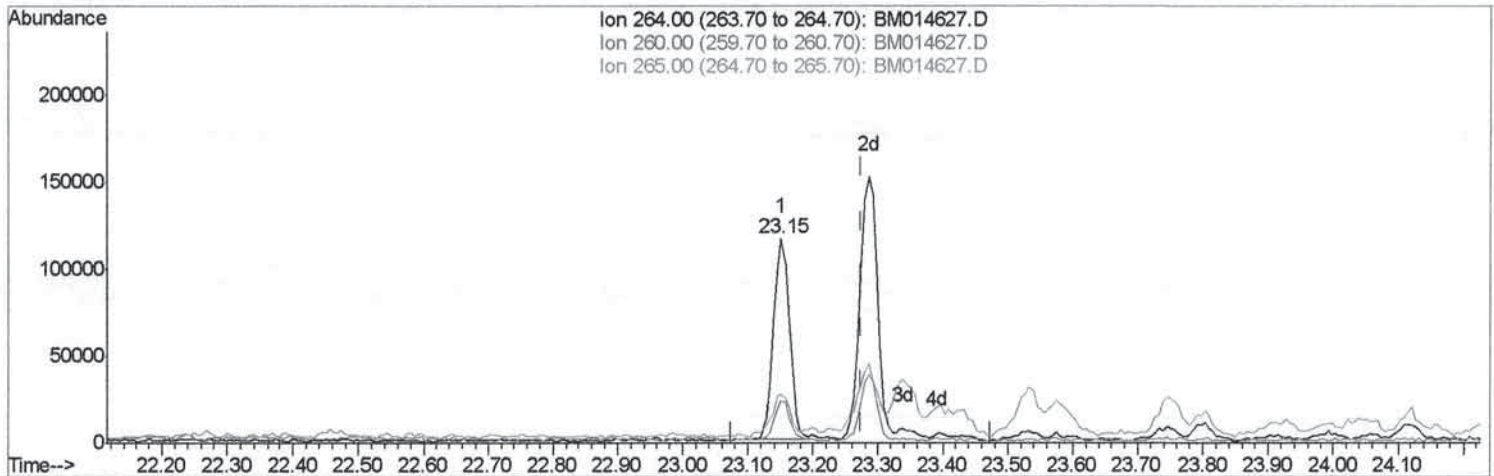
Instrument :
 BNA_M
 ClientSampleId :
 BE8K7

Manual Integrations
 APPROVED

Sohil
 3/19/2018 2:25:57 PM

Quant Time: Mar 17 05:08:52 2018
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM031518-PAH.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Mar 17 03:22:03 2018
 Response via : Initial Calibration

Sohil
 3/19/2018 2:25:57 PM



TIC: BM014627.D

(23) Perylene-d12 (I)

23.150min (-0.124) 20.00ng/ul

response 199188

Ion	Exp%	Act%
264.00	100	100
260.00	24.20	20.68
265.00	22.50	24.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA M\Data\BM031618\
 Data File : BM014627.D
 Acq On : 17 Mar 2018 04:10
 Operator : SJ/JU
 Sample : J1918-15
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

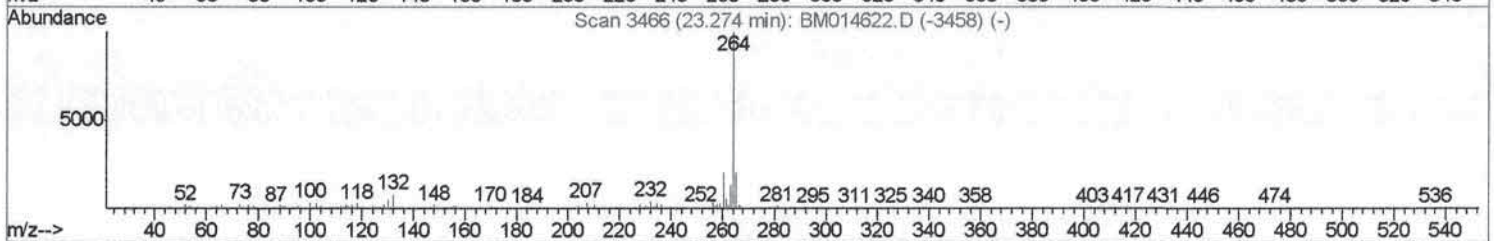
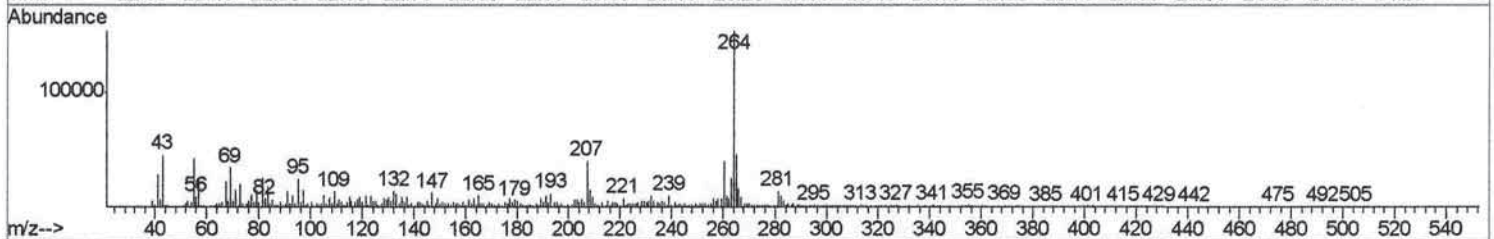
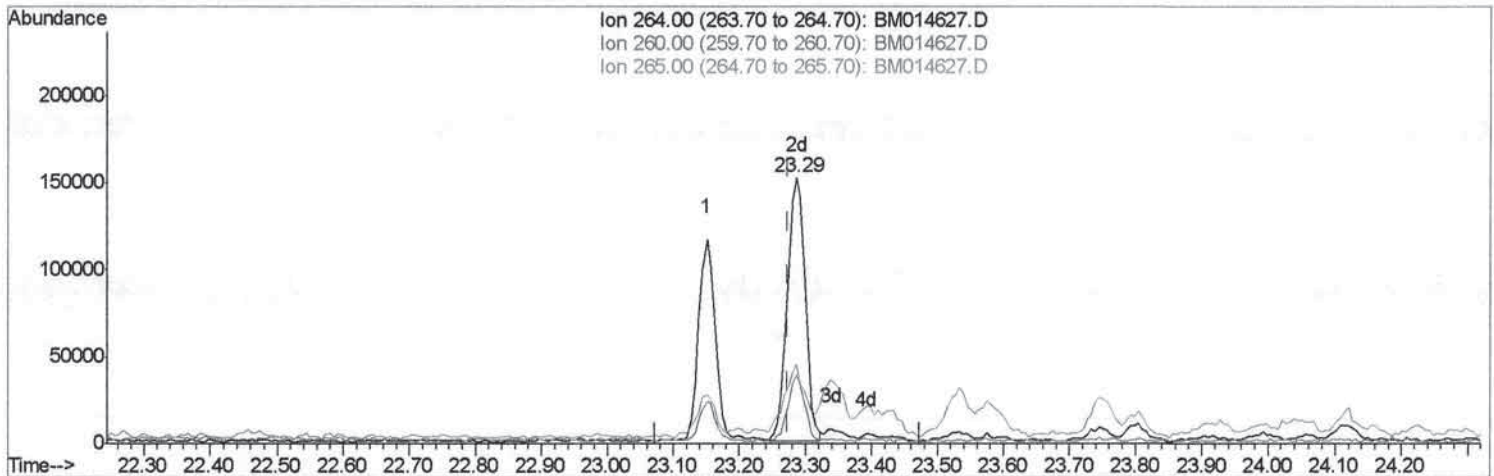
Instrument :
 BNA_M
 ClientSampleId :
 BE8K7

Manual Integrations
 APPROVED

Sohil
 3/19/2018 2:25:57 PM

Quant Time: Mar 17 05:08:52 2018
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM031518-PAH.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Mar 17 03:22:03 2018
 Response via : Initial Calibration

Sohil
 3/19/2018 2:25:57 PM



TIC: BM014627.D

(23) Perylene-d12 (I)

23.285min (+0.012) 20.00ng/ul m> 51 3/3/18

response 284587

Ion	Exp%	Act%
264.00	100	100
260.00	24.20	26.07
265.00	22.50	29.99#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA M\Data\BM031618\
 Data File : BM014627.D
 Acq On : 17 Mar 2018 04:10
 Operator : SJ/JU
 Sample : J1918-15
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 BE8K7

Manual Integrations
 APPROVED

Sohil
 3/19/2018 2:25:57 PM

Sohil
 3/19/2018 2:25:57 PM

Quant Time: Mar 17 05:45:35 2018
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM031518-PAH.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Mar 17 03:22:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.45	152	84514	20.00	ng/ul	0.00
2) Naphthalene-d8	10.22	136	306752	20.00	ng/ul	0.00
6) Acenaphthene-d10	14.12	164	148862	20.00	ng/ul	0.00
12) Phenanthrene-d10	16.89	188	273280	20.00	ng/ul	0.00
18) Chrysene-d12	21.12	240	267740	20.00	ng/ul	0.00
23) Perylene-d12	23.29	264	284587m)	20.00	ng/ul	0.01

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System Monitoring Compounds

3) 2,4-Dichlorophenol-d3	9.90	165	55807	11.77	ng/ul	0.02
7) Acenaphthylene-d8	13.81	160	238596	15.00	ng/ul	0.00
10) Fluorene-d10	15.13	176	147658	14.17	ng/ul	0.00
15) Anthracene-d10	16.99	188	210697	16.10	ng/ul	0.00
19) Pvrene-d10	19.30	212	203270	12.63	ng/ul	0.00
26) Benzo(a)pyrene-d12	23.15	264	199188	14.47	ng/ul	0.01

Target Compounds

					Qvalue	
4) Naphthalene	10.27	128	28288	1.816	ng/ul#	92
5) 2-Methylnaphthalene	11.90	142	44059m)	4.041	ng/ul	
8) Acenaphthylene	13.84	152	126976	8.599	ng/ul	95
14) Phenanthrene	16.93	178	53469	3.494	ng/ul	94
16) Anthracene	17.03	178	254018	16.604	ng/ul	97
17) Fluoranthene	18.97	202	130906	7.535	ng/ul#	99
20) Pyrene	19.33	202	292291	14.516	ng/ul#	96
21) Benzo(a)anthracene	21.10	228	216254m)	12.772	ng/ul	
22) Chrysene	21.15	228	247480	15.897	ng/ul	96
24) Benzo(b)fluoranthene	22.64	252	1080923m)	60.413	ng/ul	
25) Benzo(k)fluoranthene	22.68	252	219792m)	12.930	ng/ul	
27) Benzo(a)pyrene	23.20	252	532371	31.347	ng/ul	99
28) Indeno(1,2,3-cd)pyrene	25.46	276	477175m)	24.412	ng/ul	
29) Dibenzo(a,h)anthracene	25.44	278	160382m)	9.803	ng/ul	
30) Benzo(a,h,i)perylene	26.11	276	555120m)	35.653	ng/ul	

SD 3/13/18

SD 3/13/18

SD 3/13/18

SD 3/13/18

(#) = qualifier out of range (m) = manual integration (+) = signals summed