

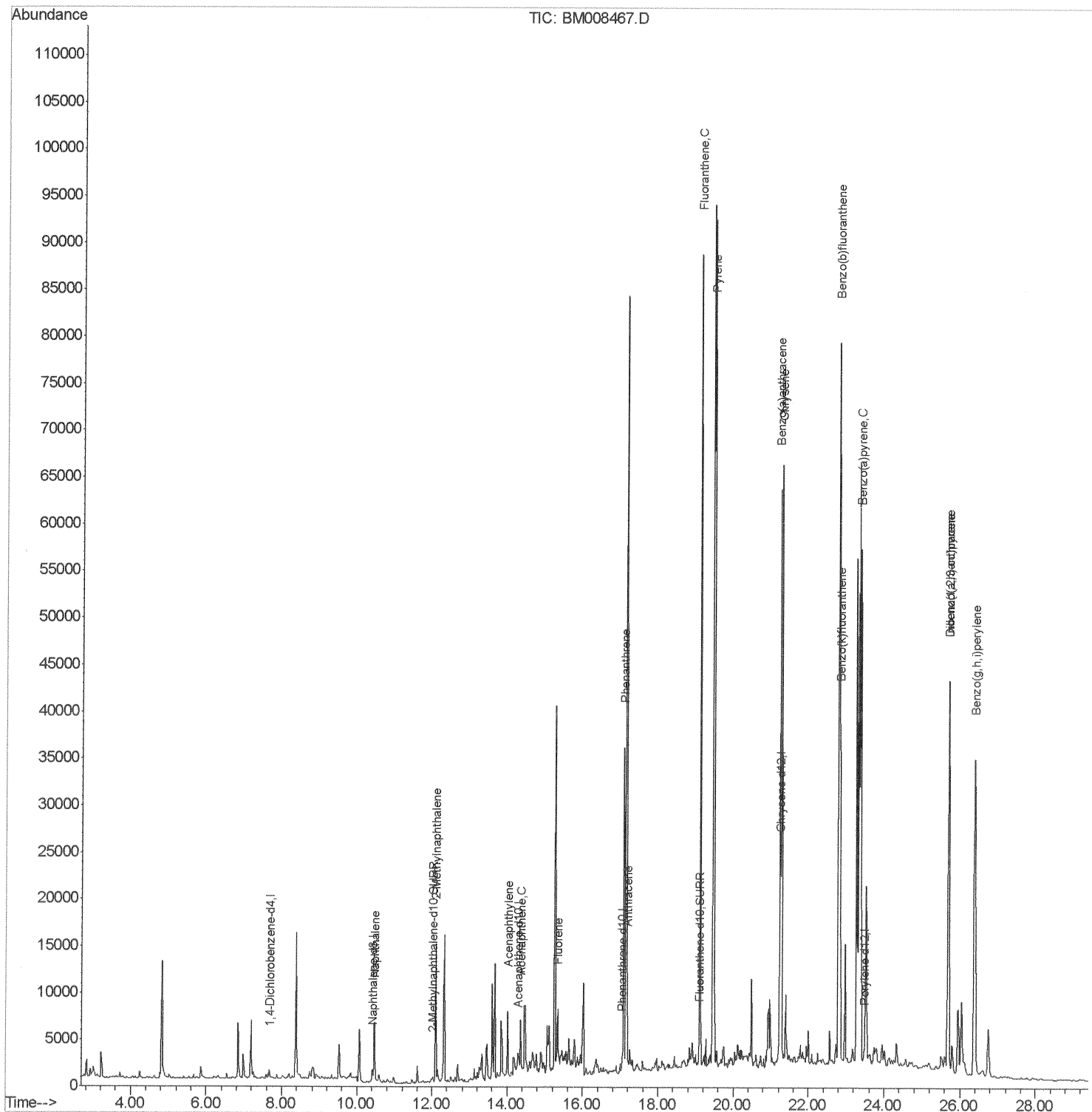
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008467.D
Acq On : 20 Dec 2016 06:35
Operator : UM/SJ
Sample : H5970-02
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA843

Manual Integrations
APPROVED

sohil
12/20/2016 6:31:35 PM

Quant Time: Dec 20 13:47:35 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



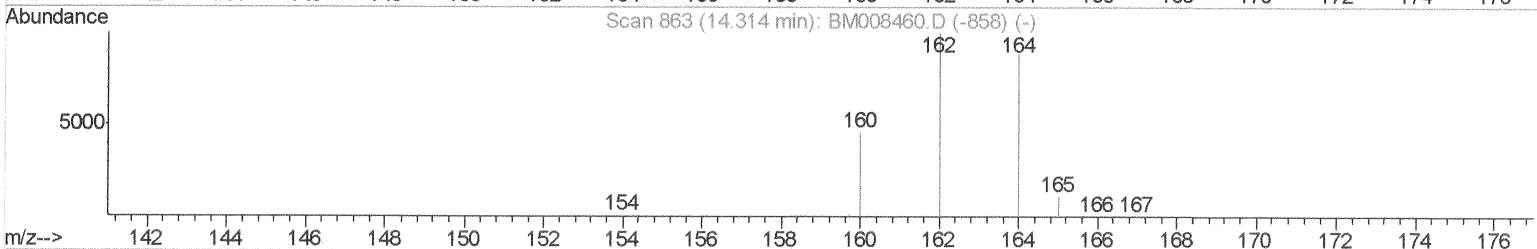
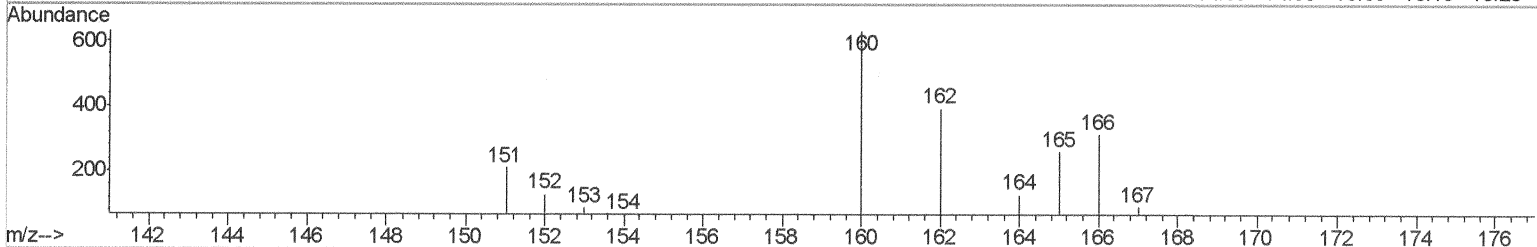
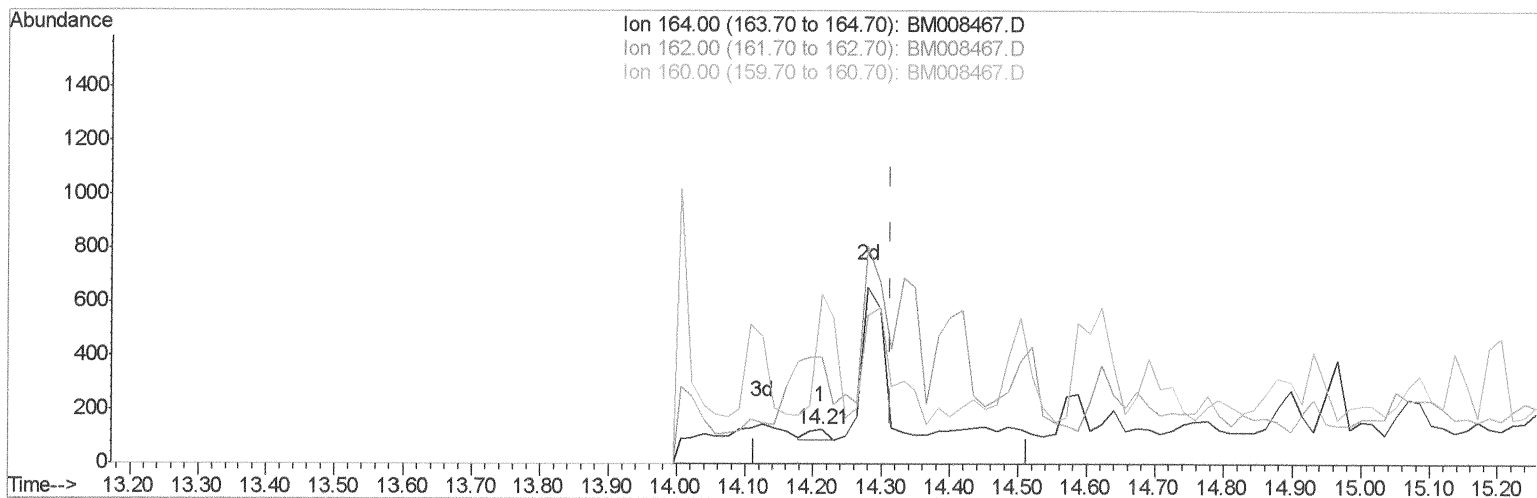
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008467.D
Acq On : 20 Dec 2016 06:35
Operator : UM/SJ
Sample : H5970-02
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA843

Manual Integrations
APPROVED

sohil
12/20/2016 6:31:35 PM

Quant Time: Dec 20 13:42:54 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008467.D

(6) Acenaphthene-d10 (I)

14.211min (-0.103) 0.40ng/ul

response 73

Ion	Exp%	Act%
164.00	100	100
162.00	98.60	307.81#
160.00	48.80	492.97#
0.00	0.00	0.00

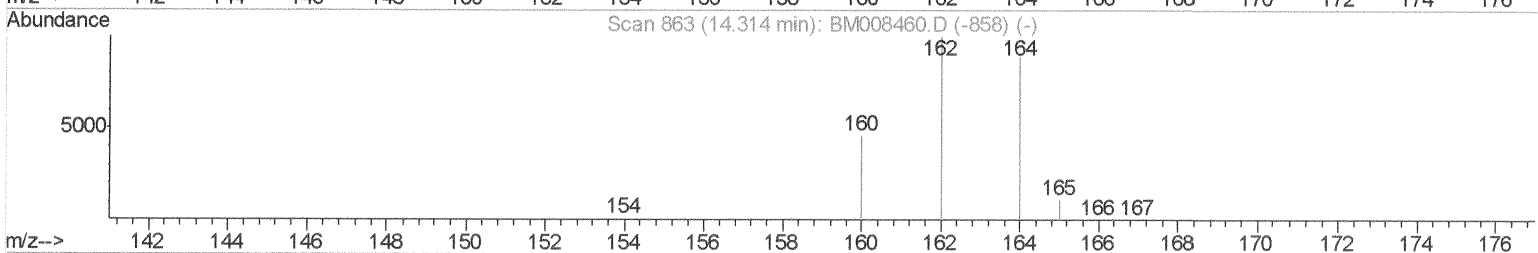
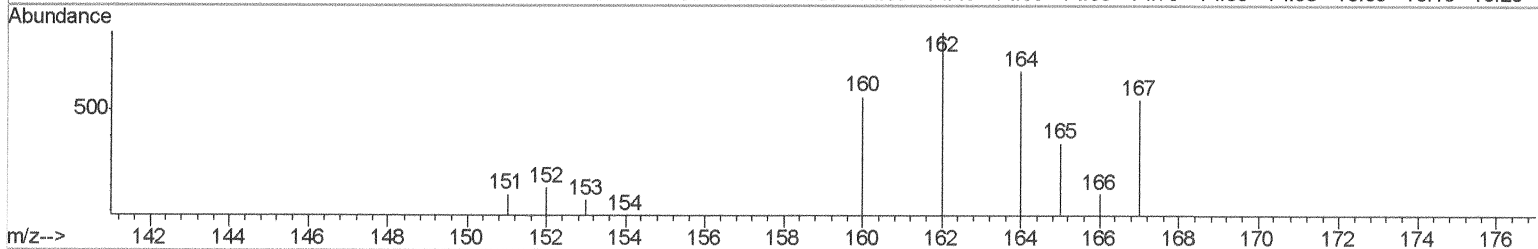
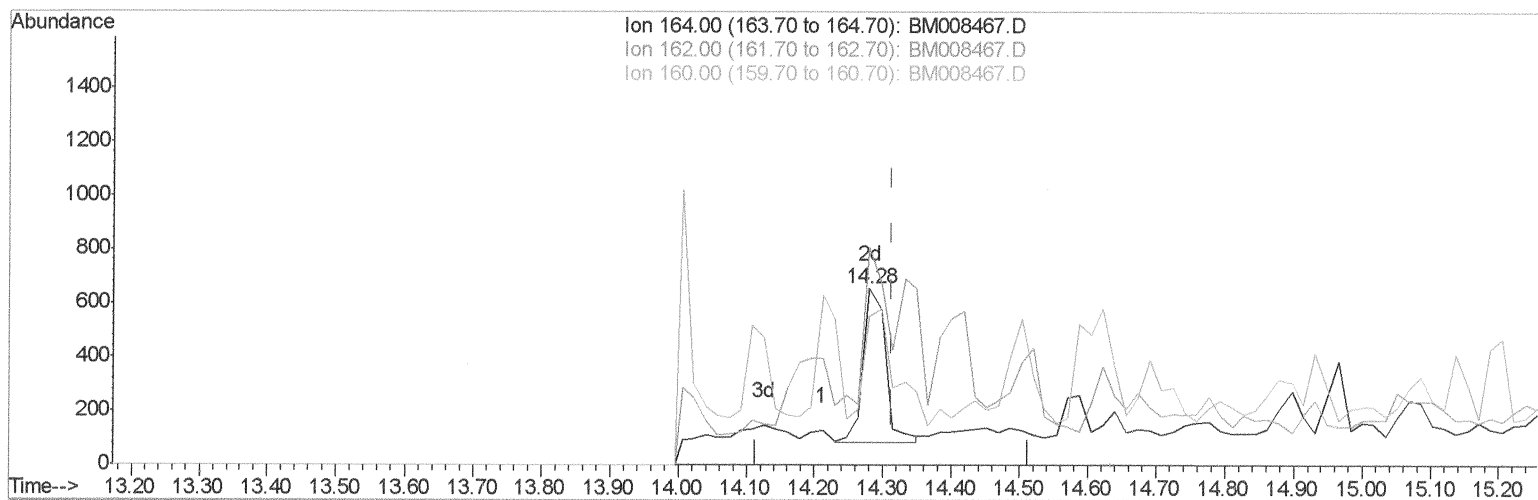
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008467.D
Acq On : 20 Dec 2016 06:35
Operator : UM/SJ
Sample : H5970-02
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA843

Manual Integrations
APPROVED

sohil
12/20/2016 6:31:35 PM

Quant Time: Dec 20 13:42:54 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008467.D

(6) Acenaphthene-d10 (I)

14.280min (-0.034) 0.40ng/ul m

SJ 12/21/16

response 1320

Ion	Exp%	Act%
164.00	100	100
162.00	98.60	123.74#
160.00	48.80	84.38#
0.00	0.00	0.00

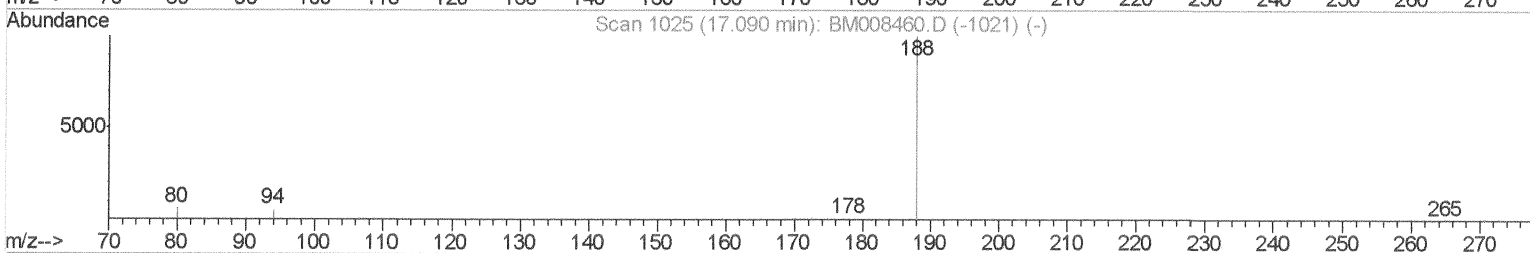
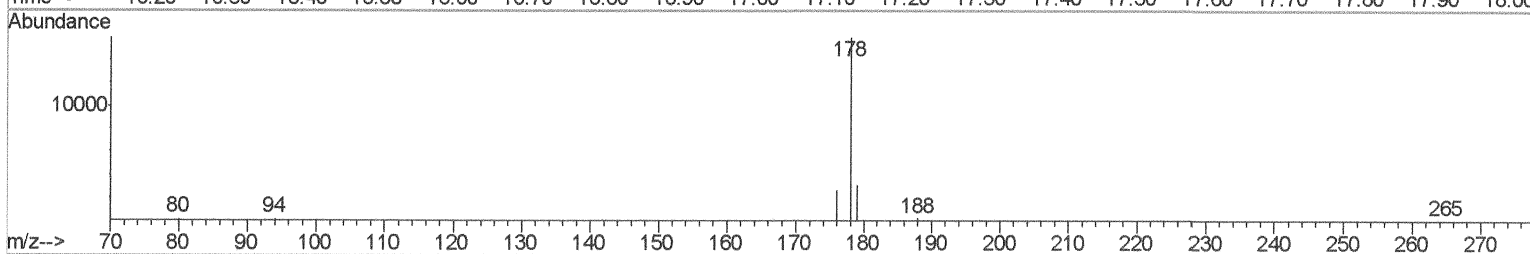
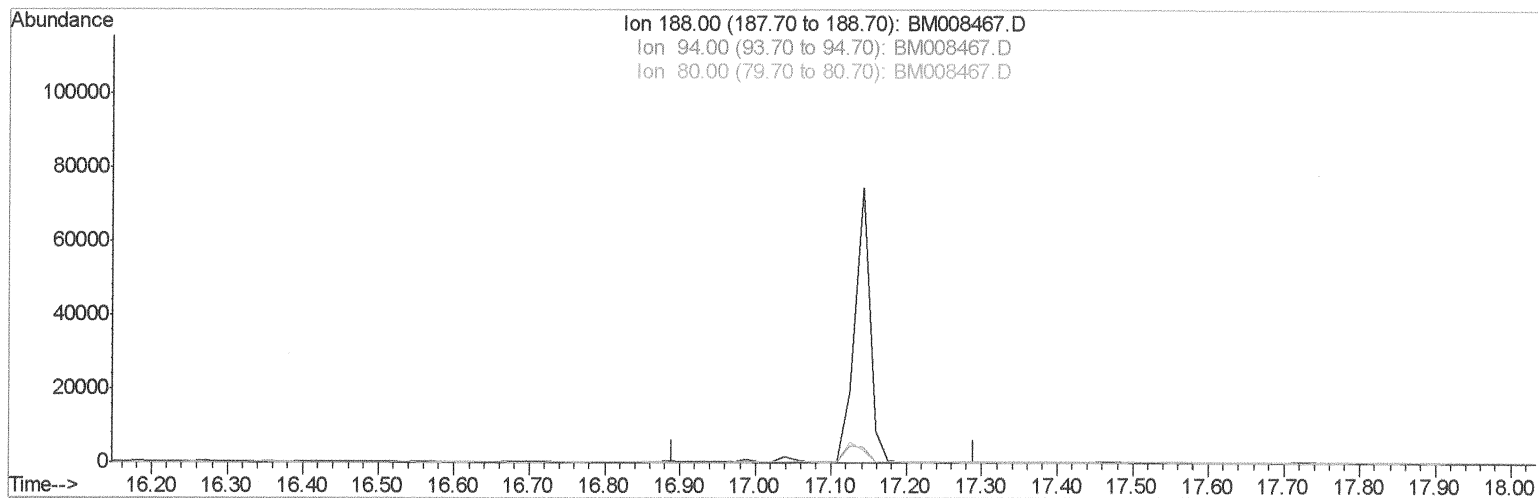
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008467.D
Acq On : 20 Dec 2016 06:35
Operator : UM/SJ
Sample : H5970-02
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA843

Manual Integrations
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Quant Time: Dec 20 13:43:41 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008467.D

(10) Phenanthrene-d10 (I)

17.090min (-17.090) 0.00ng/ul

response 0

Ion	Exp%	Act%
188.00	100	0.00
94.00	11.00	0.00#
80.00	11.80	0.00#
0.00	0.00	0.00

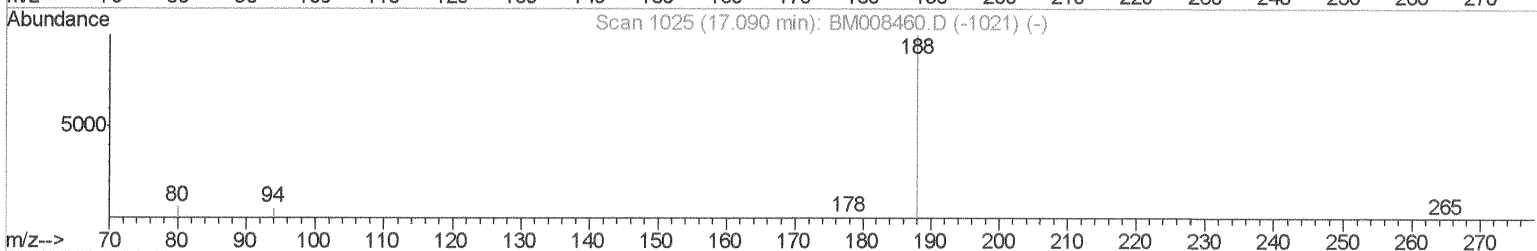
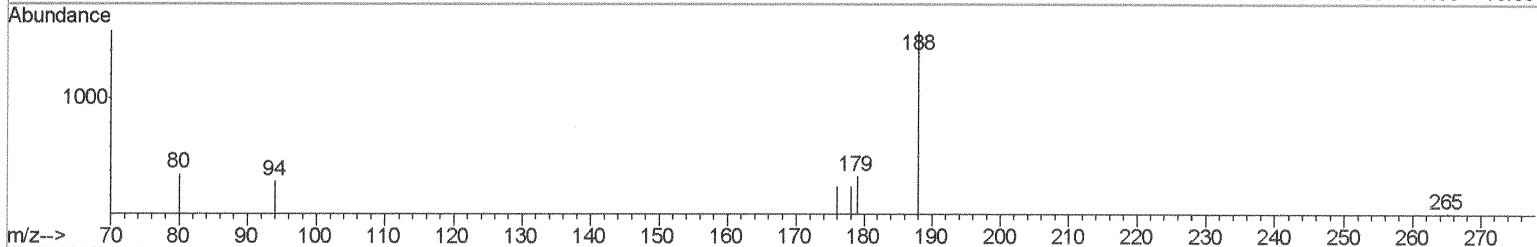
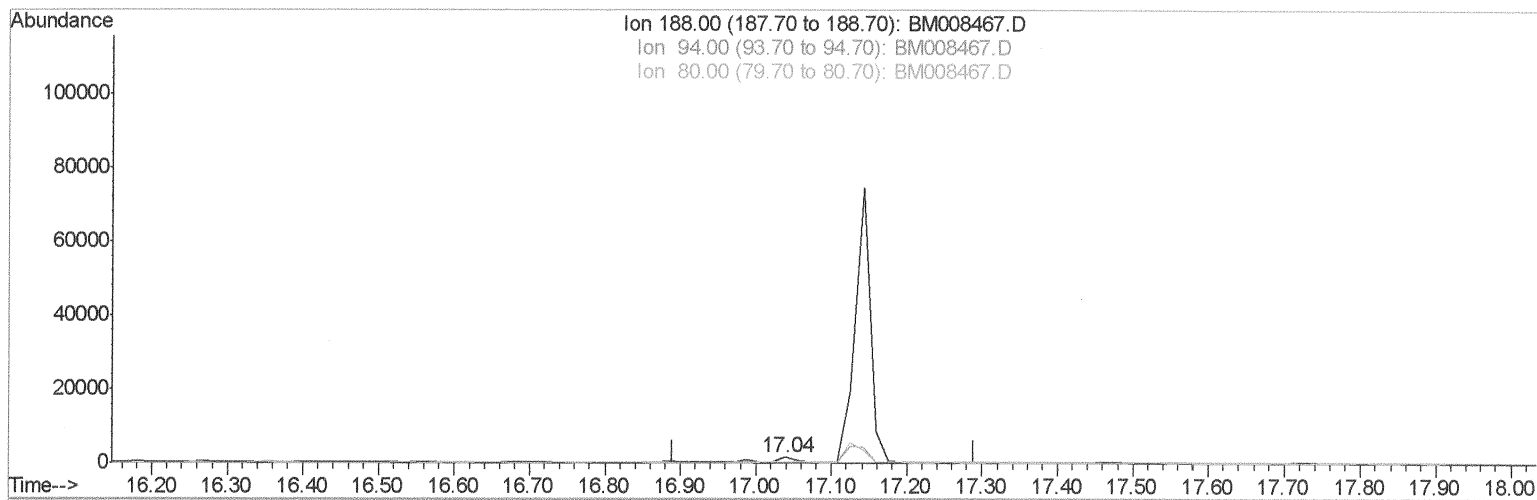
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008467.D
Acq On : 20 Dec 2016 06:35
Operator : UM/SJ
Sample : H5970-02
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA843

Manual Integrations
APPROVED

sohil
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Quant Time: Dec 20 13:43:41 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008467.D

(10) Phenanthrene-d10 (I)

17.039min (-0.051) 0.40ng/ul m

SJ 12/21/16

response 1947

Ion	Exp%	Act%
188.00	100	100
94.00	11.00	20.23#
80.00	11.80	24.07#
0.00	0.00	0.00

Quantitation Report (Qedit)

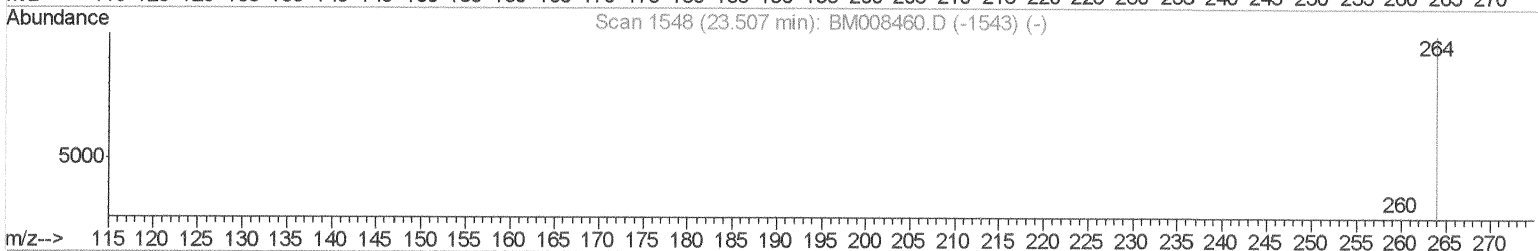
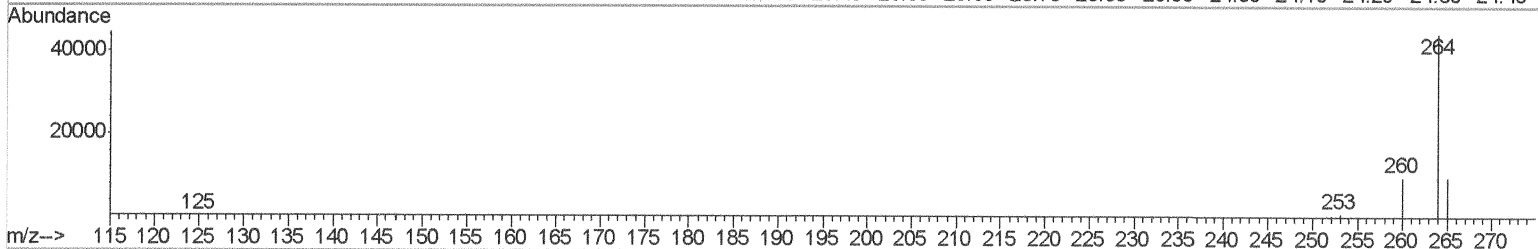
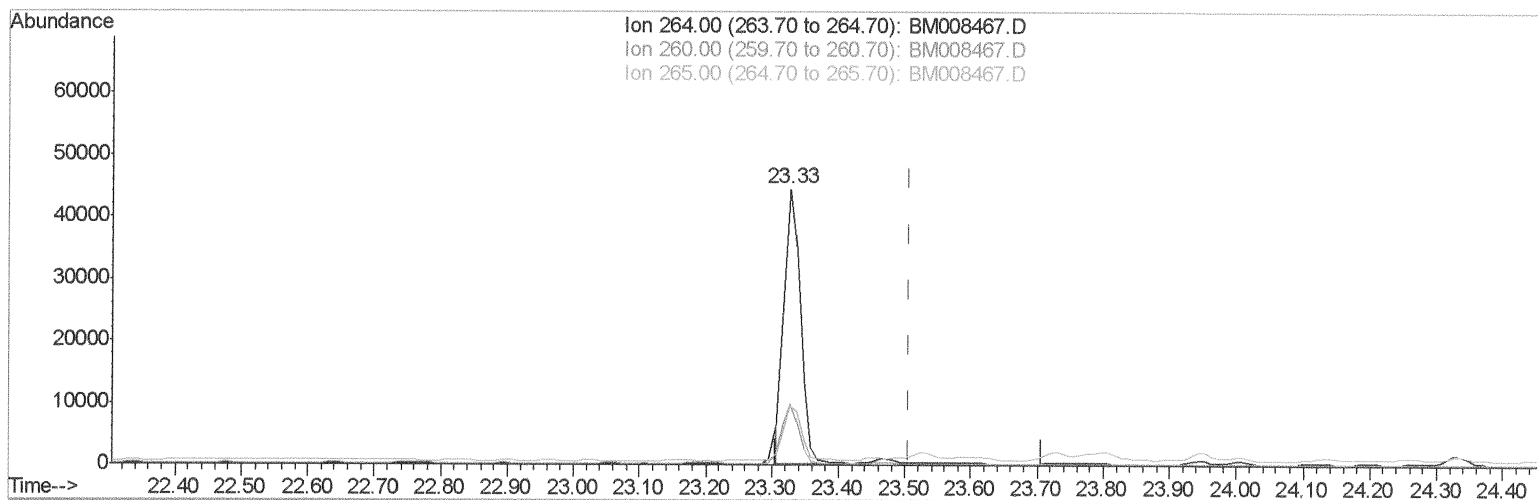
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
 Data File : BM008467.D
 Acq On : 20 Dec 2016 06:35
 Operator : UM/SJ
 Sample : H5970-02
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_M
ClientSampleId :
 DA843

Manual Integrations
APPROVED

sohil
 12/20/2016 6:31:35 PM

Quant Time: Dec 20 13:44:14 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 20 04:48:59 2016
 Response via : Initial Calibration



TIC: BM008467.D

(20) Perylene-d12 (I)
 23.326min (-0.180) 0.40ng/ul
 response 74991

Ion	Exp%	Act%
264.00	100	100
260.00	30.10	22.35#
265.00	103.50	21.98#
0.00	0.00	0.00

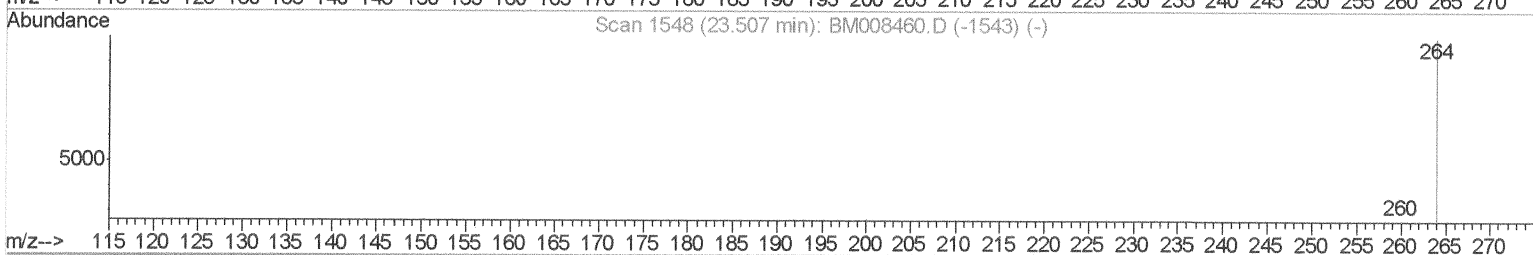
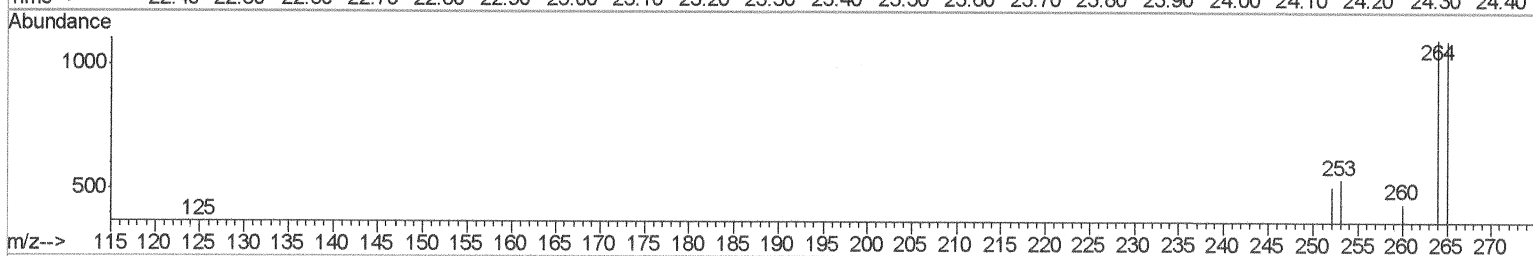
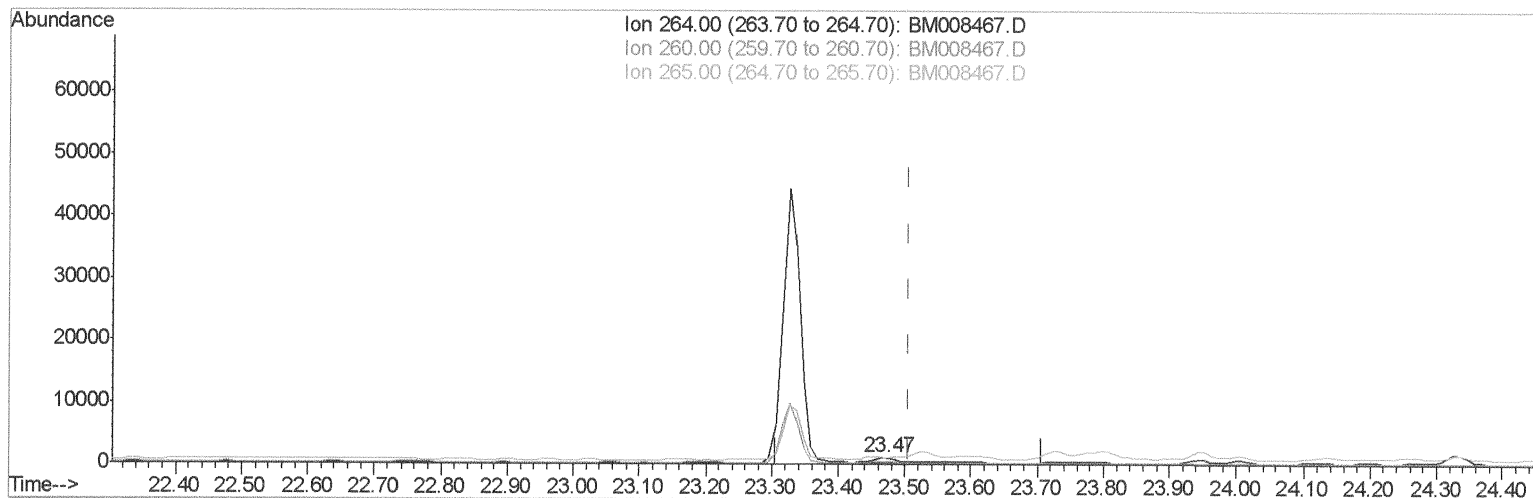
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008467.D
Acq On : 20 Dec 2016 06:35
Operator : UM/SJ
Sample : H5970-02
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA843

Manual Integrations
APPROVED

sohil
12/20/2016 6:31:35 PM

Quant Time: Dec 20 13:44:14 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008467.D

(20) Perylene-d12 (I)

23.472min (-0.034) 0.40ng/ul m

SJ 12/21/16

response 1760

Ion	Exp%	Act%
264.00	100	100
260.00	30.10	40.00#
265.00	103.50	99.73
0.00	0.00	0.00

Quantitation Report (Qedit)

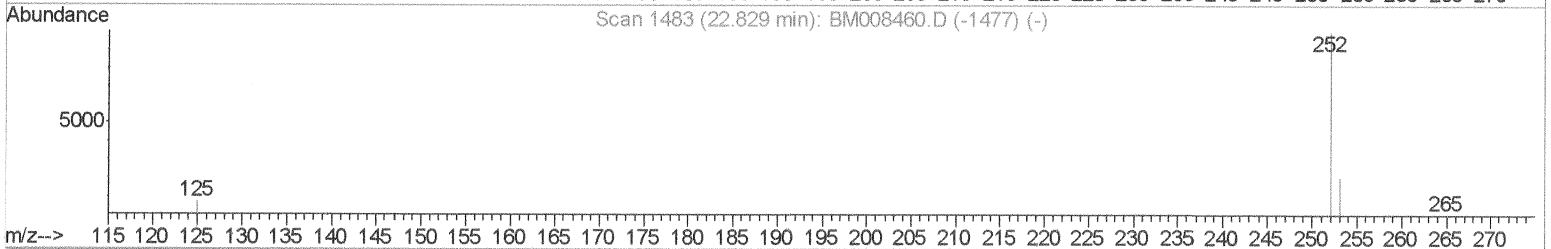
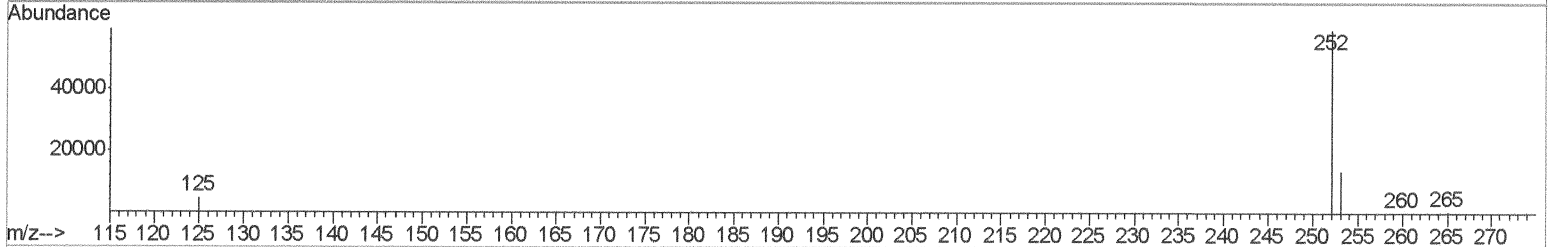
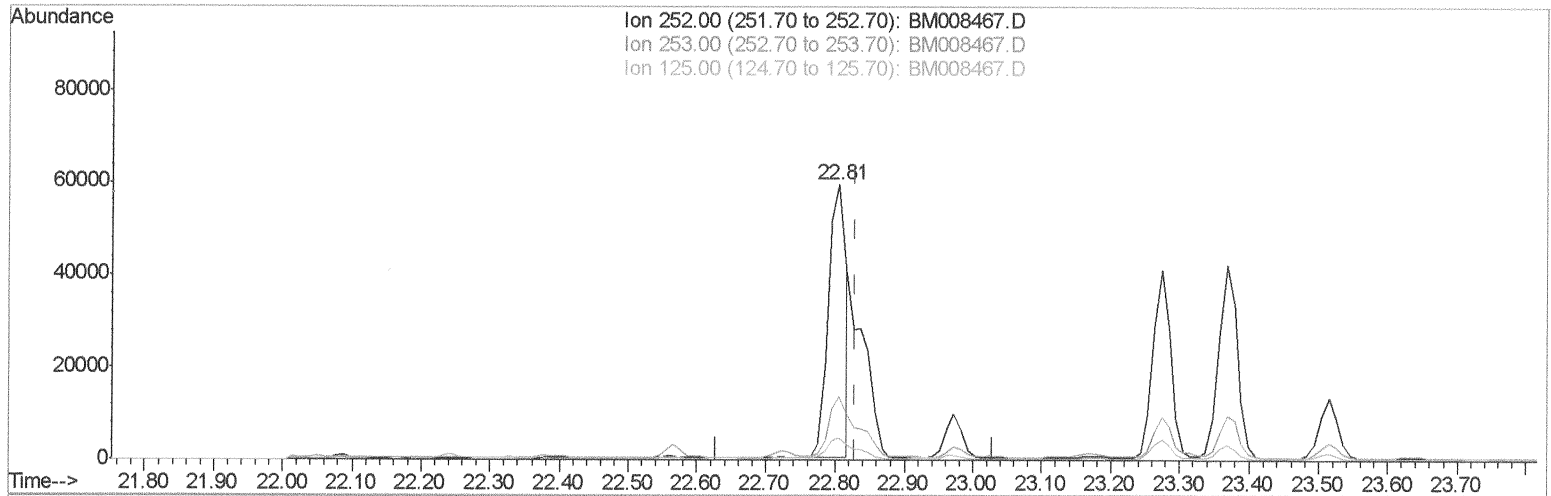
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
 Data File : BM008467.D
 Acq On : 20 Dec 2016 06:35
 Operator : UM/SJ
 Sample : H5970-02
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA843

Manual Integrations
 APPROVED

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 12/20/2016 6:31:35 PM

Quant Time: Dec 20 13:45:24 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 20 04:48:59 2016
 Response via : Initial Calibration



TIC: BM008467.D

(21) Benzo(b)fluoranthene
 22.805min (-0.024) 15.77ng/ul
 response 109367

Ion	Exp%	Act%
252.00	100	100
253.00	32.10	23.17
125.00	17.50	8.11
0.00	0.00	0.00

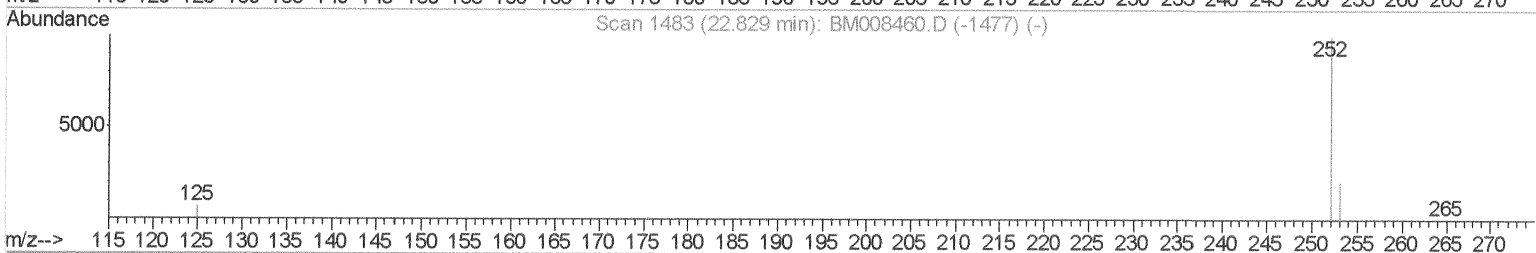
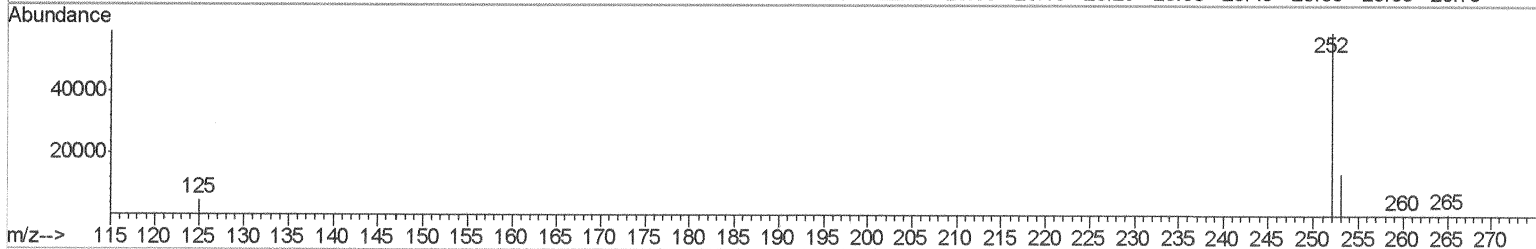
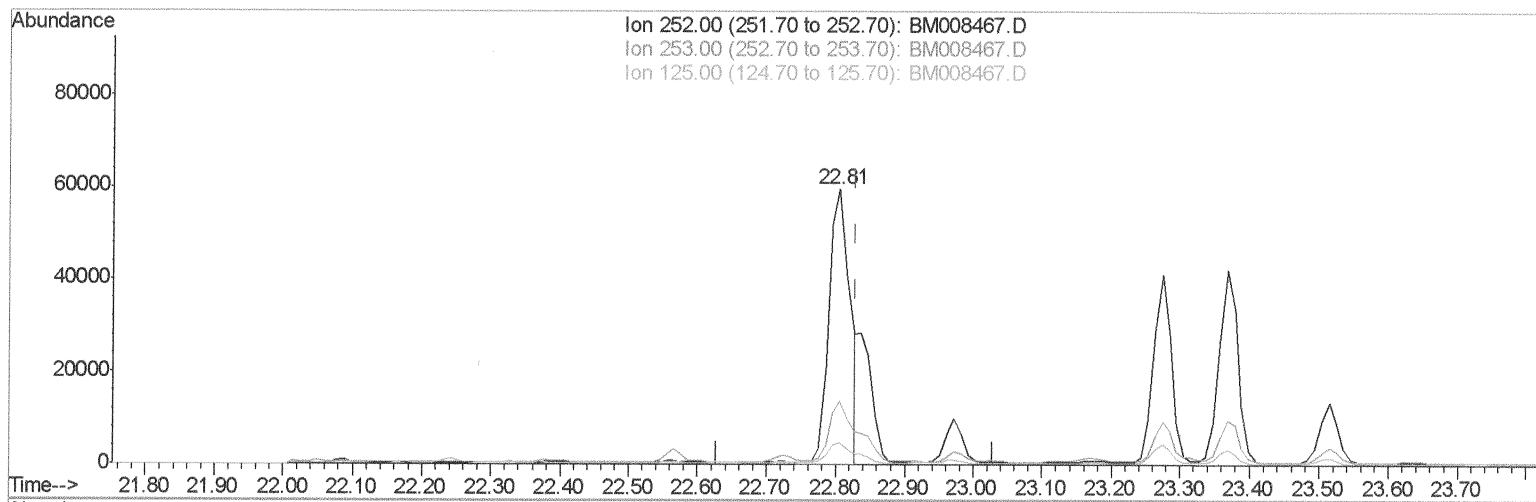
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008467.D
Acq On : 20 Dec 2016 06:35
Operator : UM/SJ
Sample : H5970-02
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA843

Manual Integrations
APPROVED

sohil
12/20/2016 6:31:35 PM

Quant Time: Dec 20 13:45:24 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008467.D

(21) Benzo(b)fluoranthene

22.805min (-0.024) 18.63ng/ul m 52 12/21/16

response 129174

Ion	Exp%	Act%
252.00	100	100
253.00	32.10	23.17
125.00	17.50	8.11
0.00	0.00	0.00

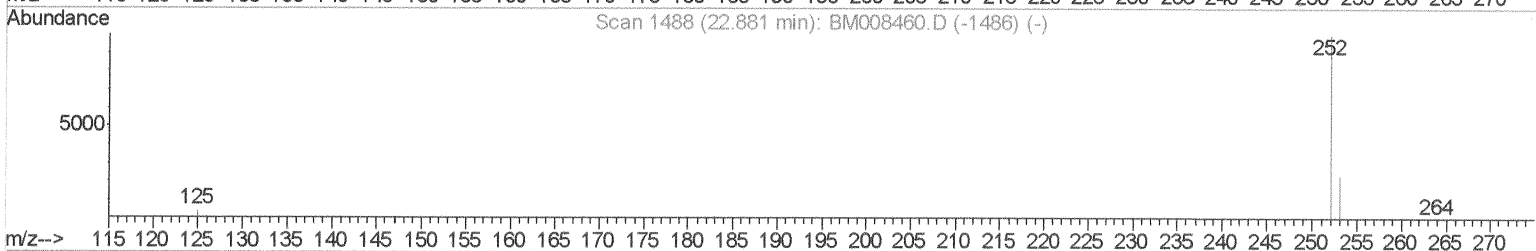
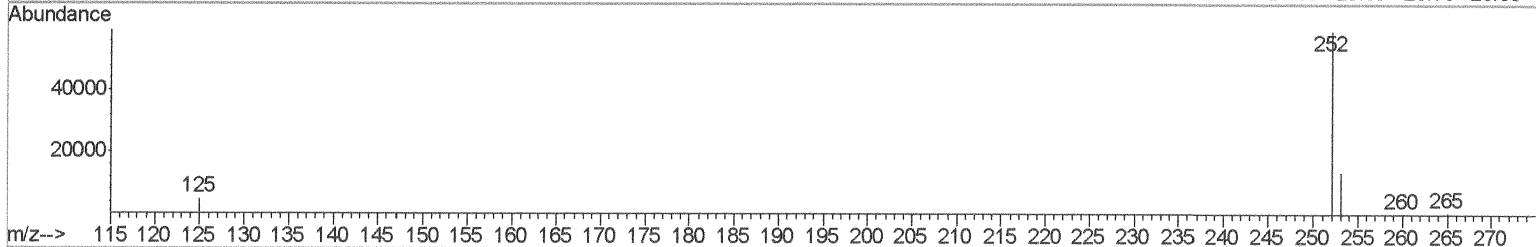
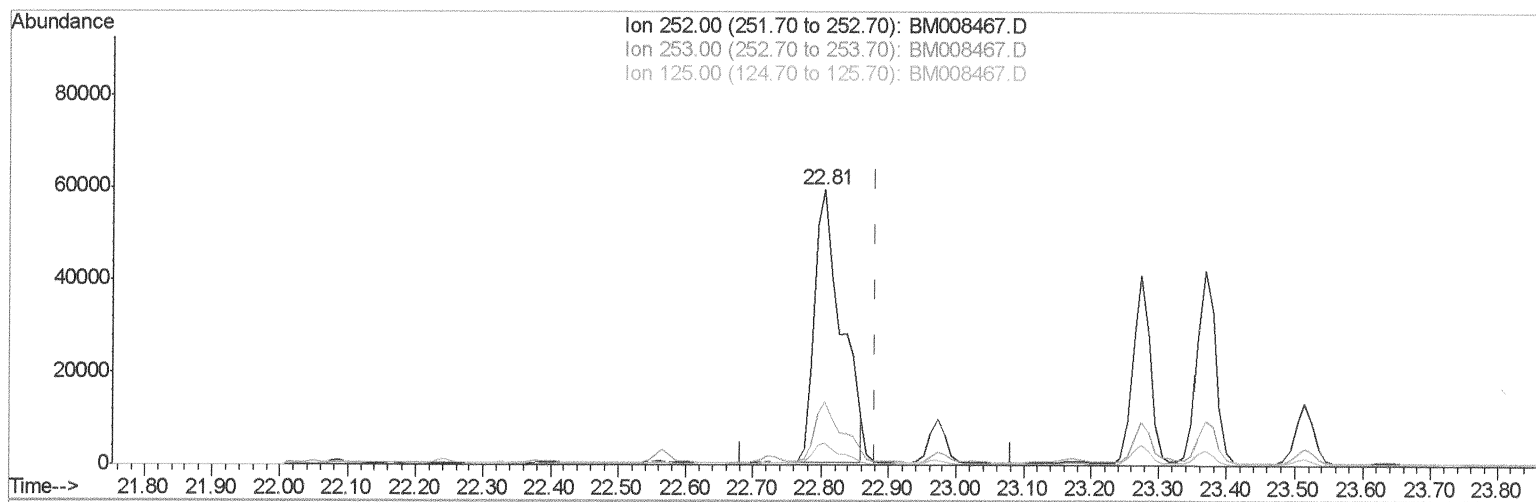
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008467.D
Acq On : 20 Dec 2016 06:35
Operator : UM/SJ
Sample : H5970-02
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA843

Manual Integrations
APPROVED

sohil
12/20/2016 6:31:35 PM

Quant Time: Dec 20 13:45:24 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008467.D

(22) Benzo(k)fluoranthene

22.805min (-0.076) 24.40ng/ui

response 164953

Ion	Exp%	Act%
252.00	100	100
253.00	30.60	23.17#
125.00	17.10	8.11#
0.00	0.00	0.00

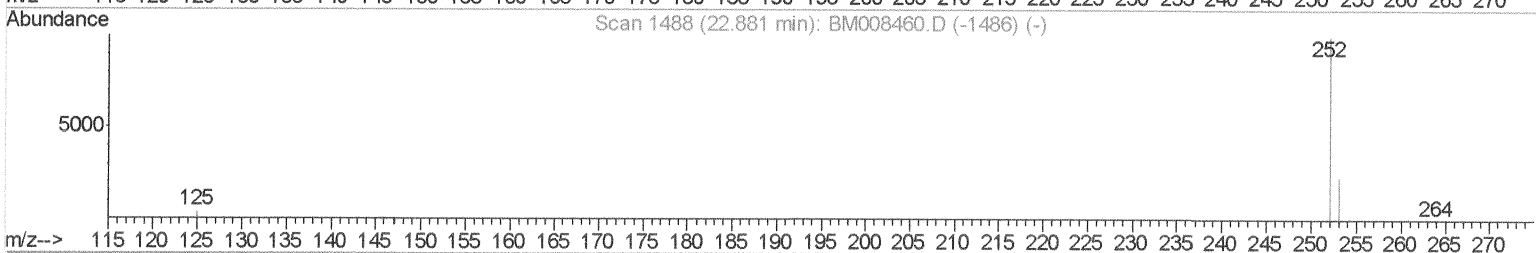
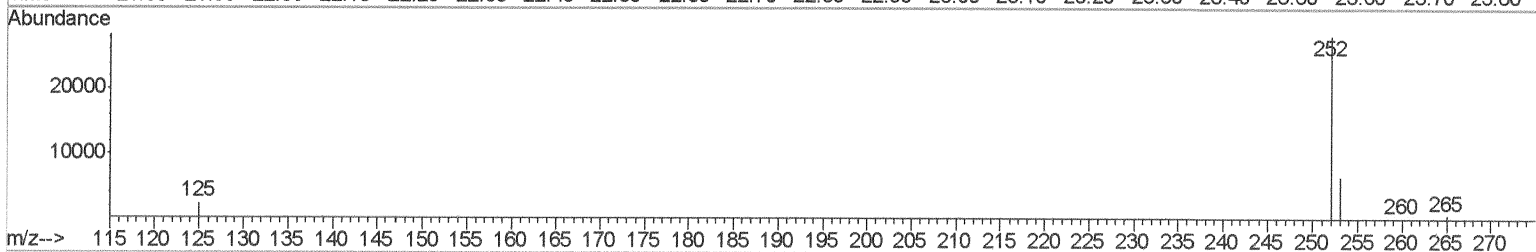
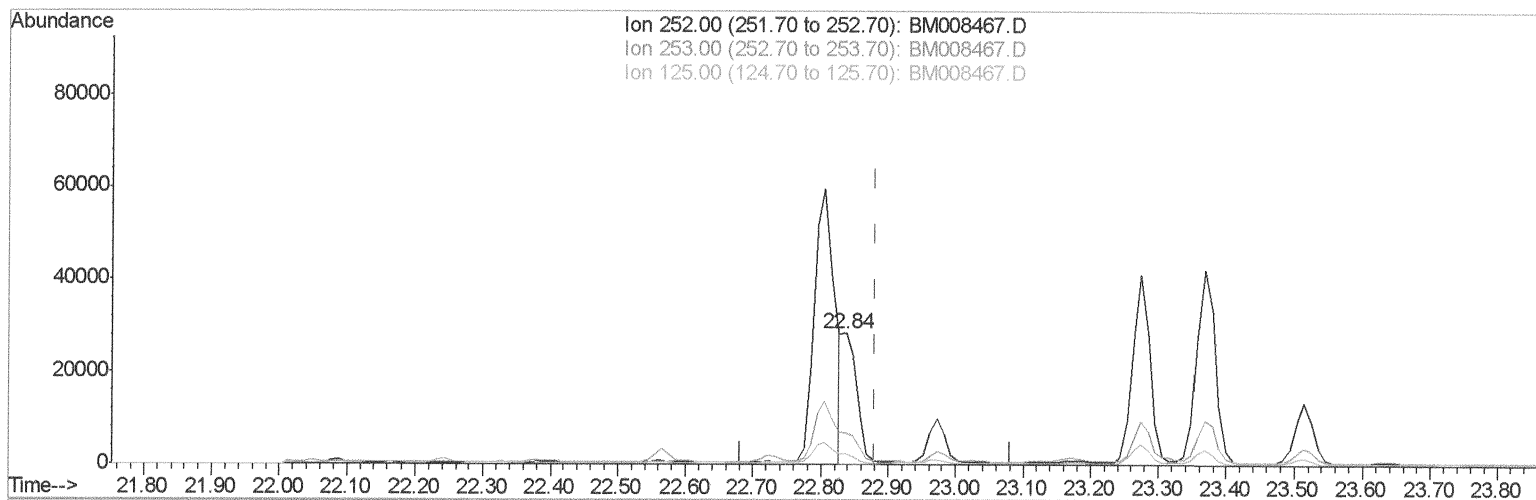
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008467.D
Acq On : 20 Dec 2016 06:35
Operator : UM/SJ
Sample : H5970-02
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA843

Manual Integrations
APPROVED

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12/20/2016 6:31:35 PM

Quant Time: Dec 20 13:45:24 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008467.D

(22) Benzo(k)fluoranthene

22.836min (-0.045) 6.16ng/ul m

SJ 12/21/16

response 41666

Ion	Exp%	Act%
252.00	100	100
253.00	30.60	23.44#
125.00	17.10	8.42#
0.00	0.00	0.00

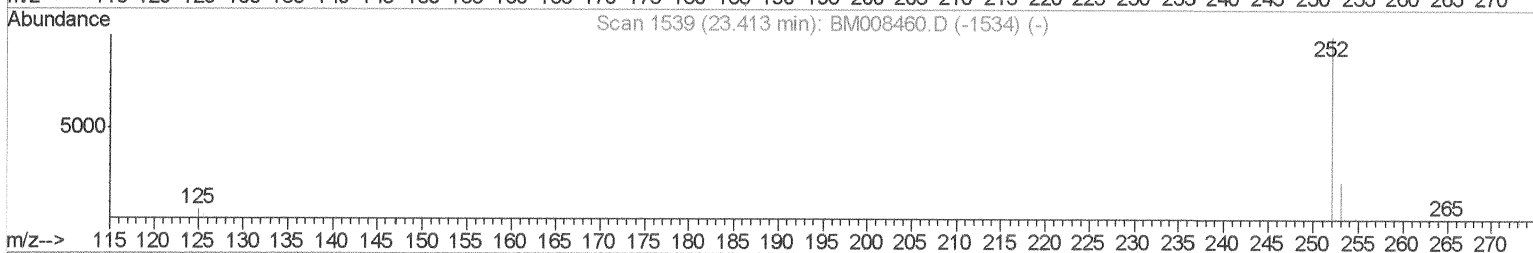
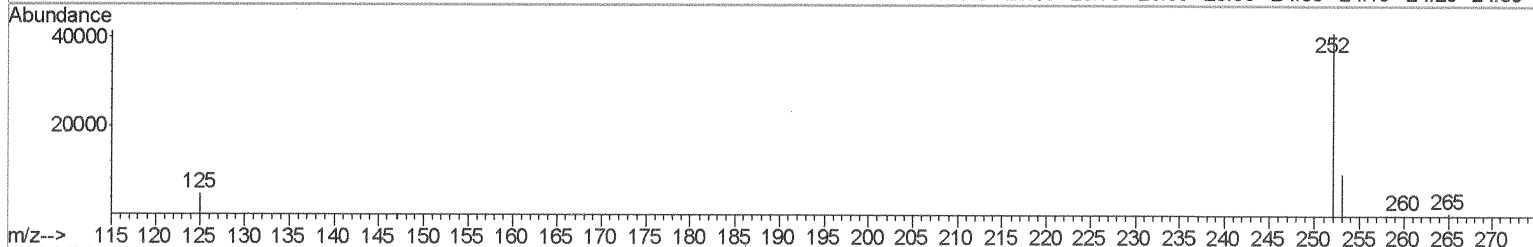
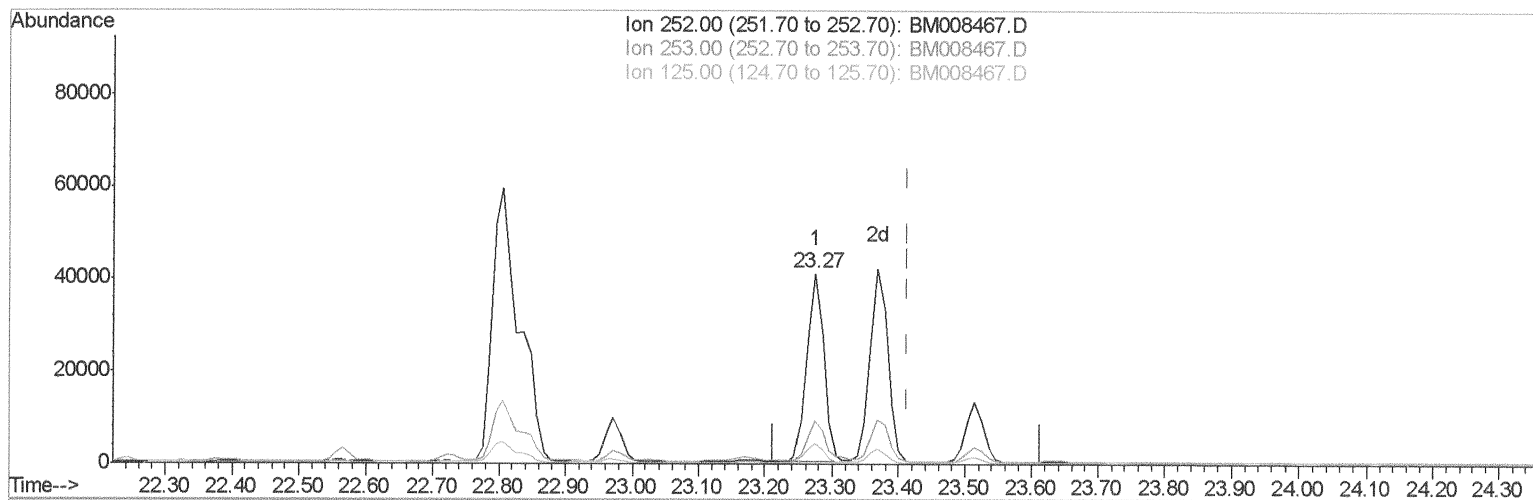
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008467.D
Acq On : 20 Dec 2016 06:35
Operator : UM/SJ
Sample : H5970-02
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA843

Manual Integrations
APPROVED

sohil
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Quant Time: Dec 20 13:45:24 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008467.D

(23) Benzo(a)pyrene (C)

23.274min (-0.139) 11.49ng/ul

response 73869

Ion	Exp%	Act%
252.00	100	100
253.00	35.60	22.71#
125.00	22.60	11.26#
0.00	0.00	0.00

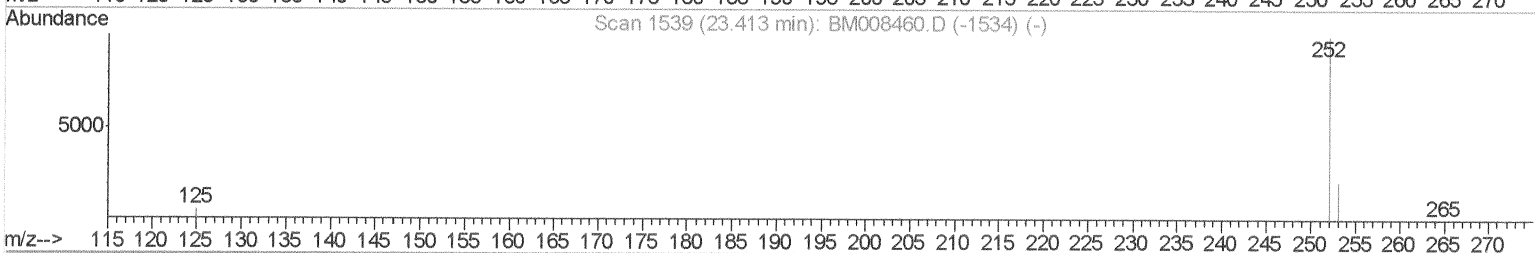
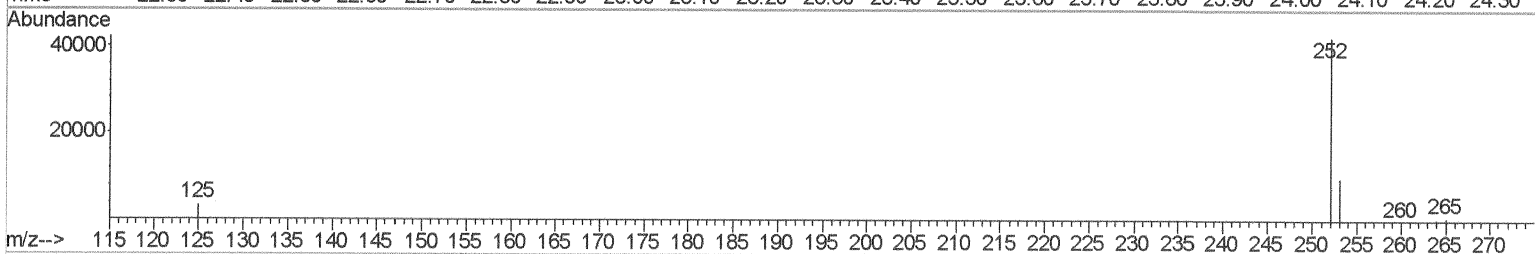
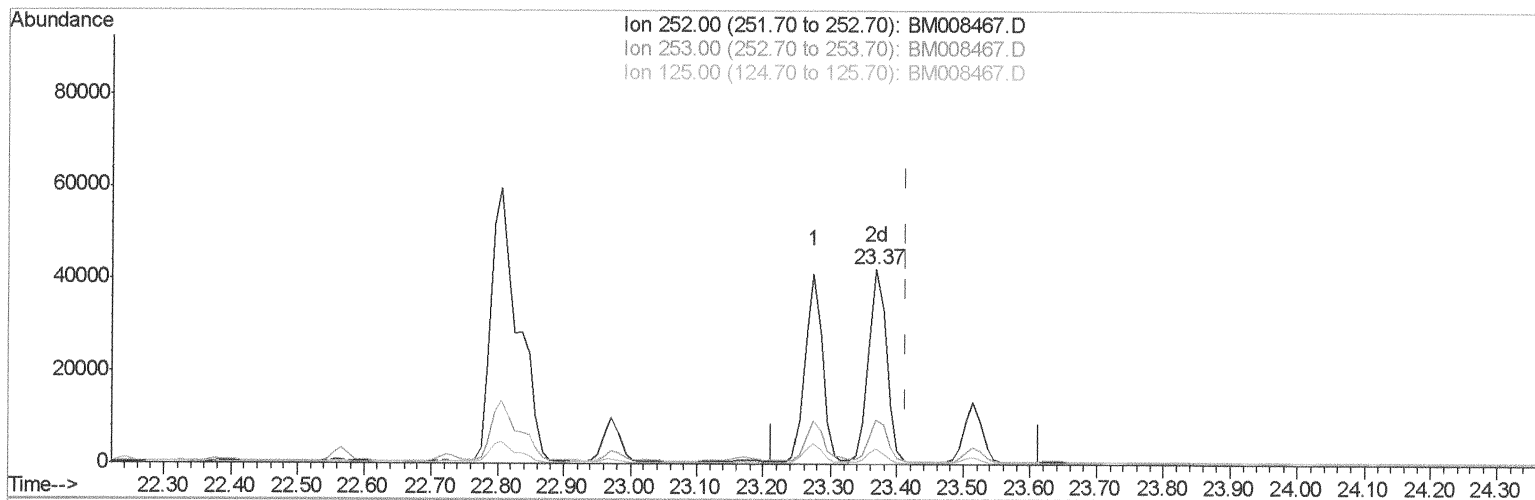
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008467.D
Acq On : 20 Dec 2016 06:35
Operator : UM/SJ
Sample : H5970-02
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA843

Manual Integrations
APPROVED

sohil
12/20/2016 6:31:35 PM

Quant Time: Dec 20 13:45:24 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008467.D

(23) Benzo(a)pyrene (C)

23.368min (-0.045) 12.71ng/ul m

SJ 12/21/16

response 81711

Ion	Exp%	Act%
252.00	100	100
253.00	35.60	22.98#
125.00	22.60	8.56#
0.00	0.00	0.00

Quantitation Report (Qedit)

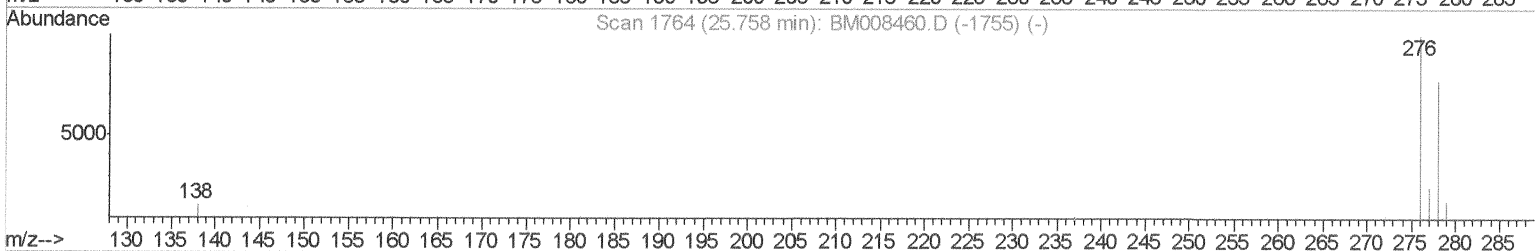
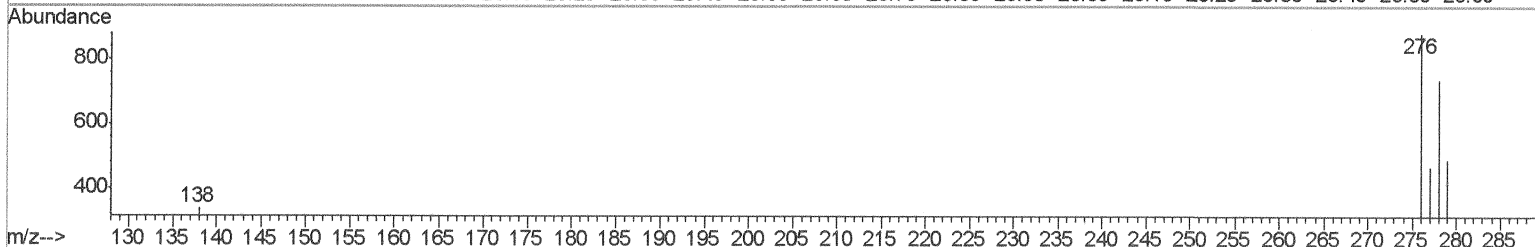
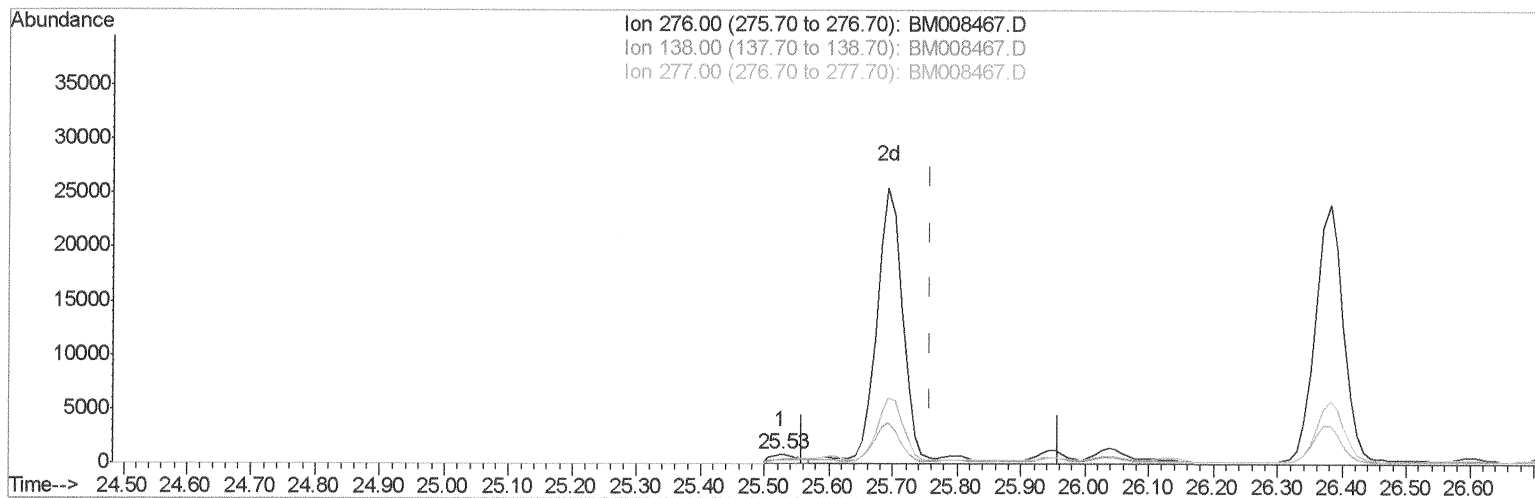
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
 Data File : BM008467.D
 Acq On : 20 Dec 2016 06:35
 Operator : UM/SJ
 Sample : H5970-02
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA843

Manual Integrations
 APPROVED

sohil
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Quant Time: Dec 20 13:45:24 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 20 04:48:59 2016
 Response via : Initial Calibration



TIC: BM008467.D

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

25.526min (-0.233) 0.37ng/ul

response 2865

Ion	Exp%	Act%
276.00	100	100
138.00	23.90	0.00#
277.00	24.50	65.86#
0.00	0.00	0.00

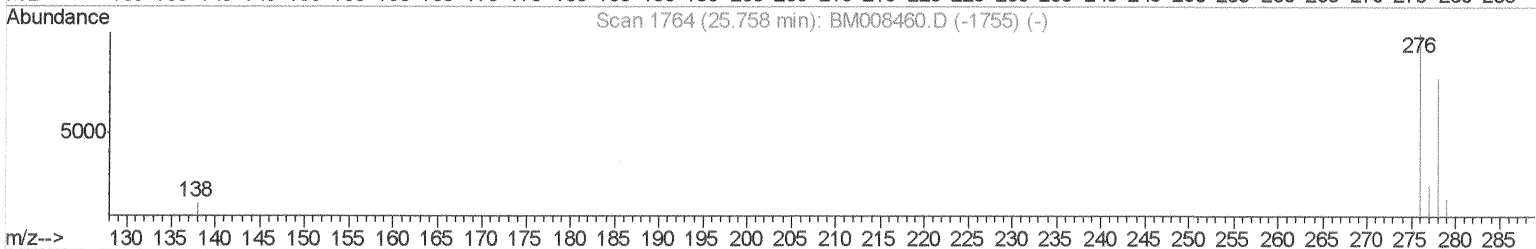
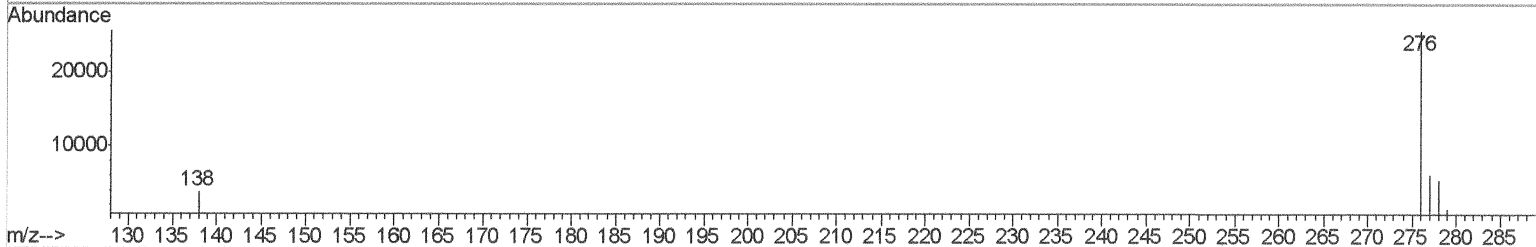
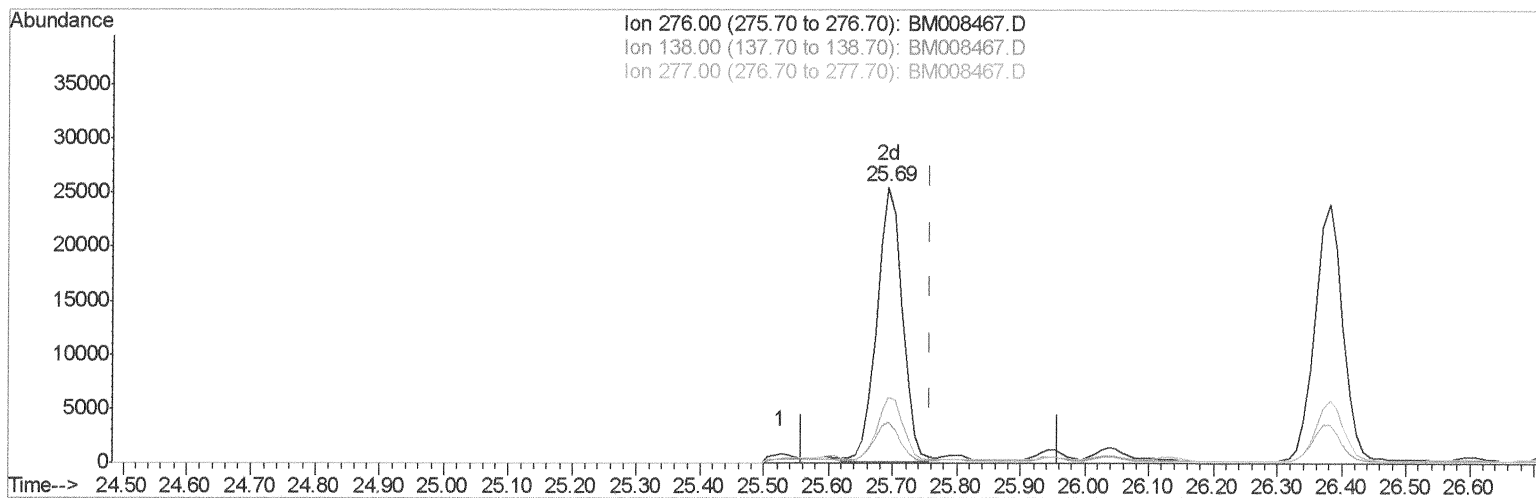
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008467.D
Acq On : 20 Dec 2016 06:35
Operator : UM/SJ
Sample : H5970-02
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA843

Manual Integrations
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sohil
12/20/2016 6:31:35 PM

Quant Time: Dec 20 13:45:24 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008467.D

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

25.693min (-0.066) 9.25ng/ul m SJ 12/21/16

response 70844

Ion	Exp%	Act%
276.00	100	100
138.00	23.90	0.00#
277.00	24.50	2.66#
0.00	0.00	0.00

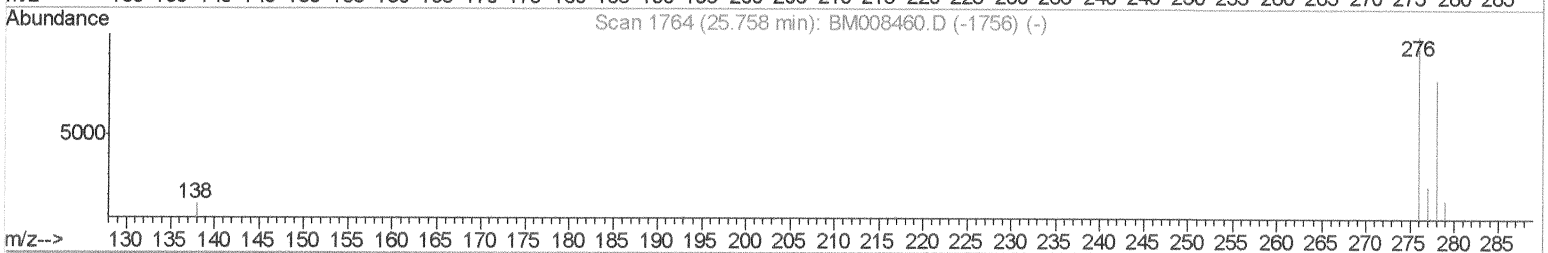
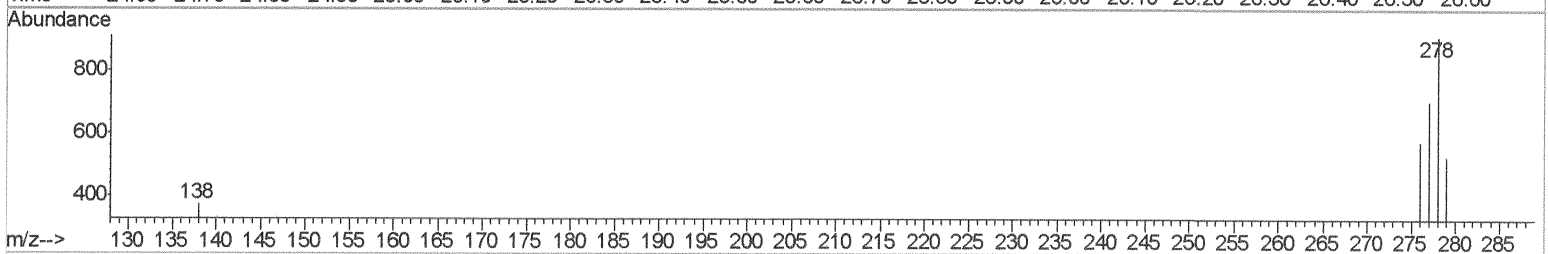
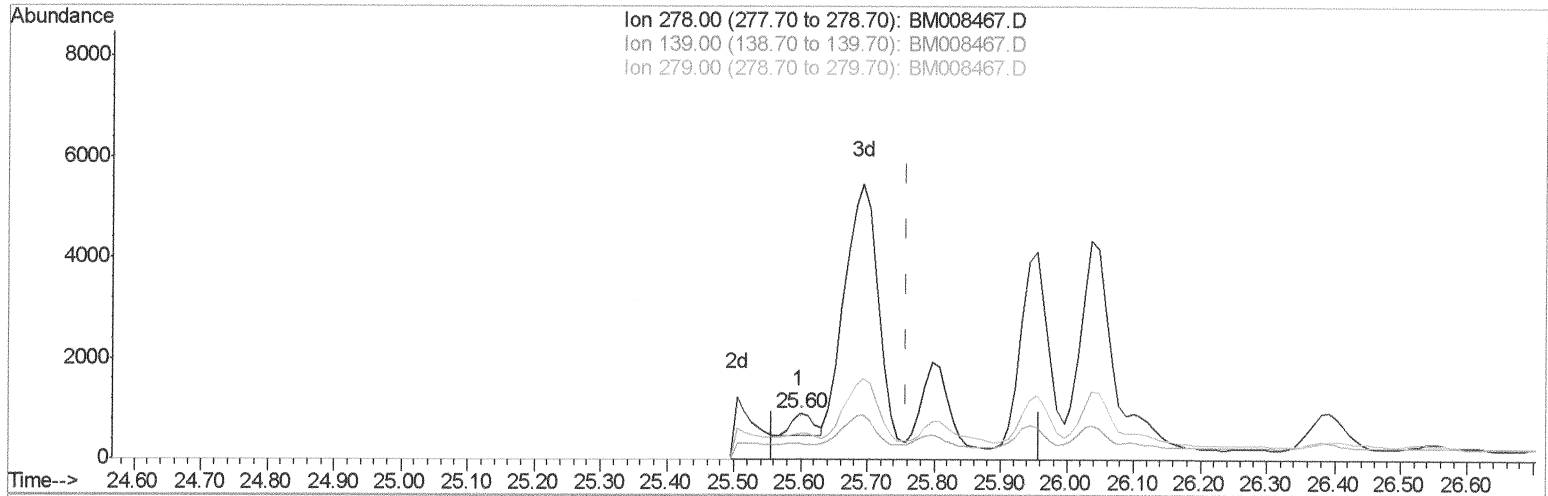
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008467.D
Acq On : 20 Dec 2016 06:35
Operator : UM/SJ
Sample : H5970-02
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA843

Manual Integrations
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sohil
12/20/2016 6:31:35 PM

Quant Time: Dec 20 13:45:24 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008467.D

(25) Dibenzo(a,h)anthracene

25.599min (-0.160) 0.17ng/ul

response 1038

Ion	Exp%	Act%
278.00	100	100
139.00	21.70	35.78#
279.00	32.40	57.88#
0.00	0.00	0.00

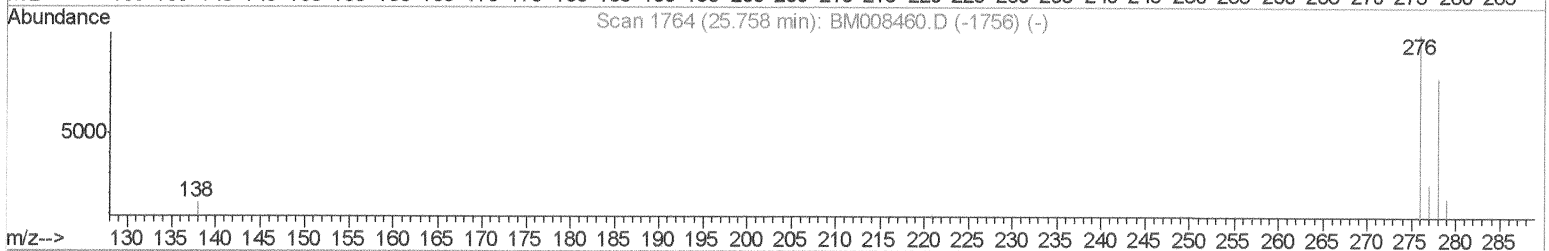
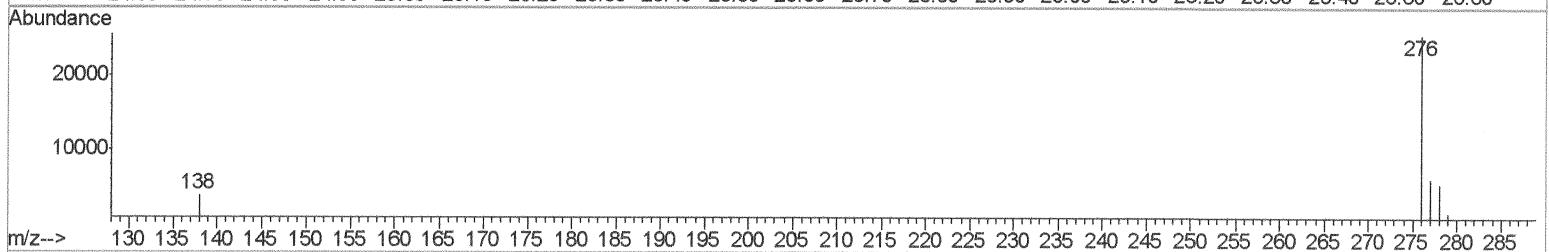
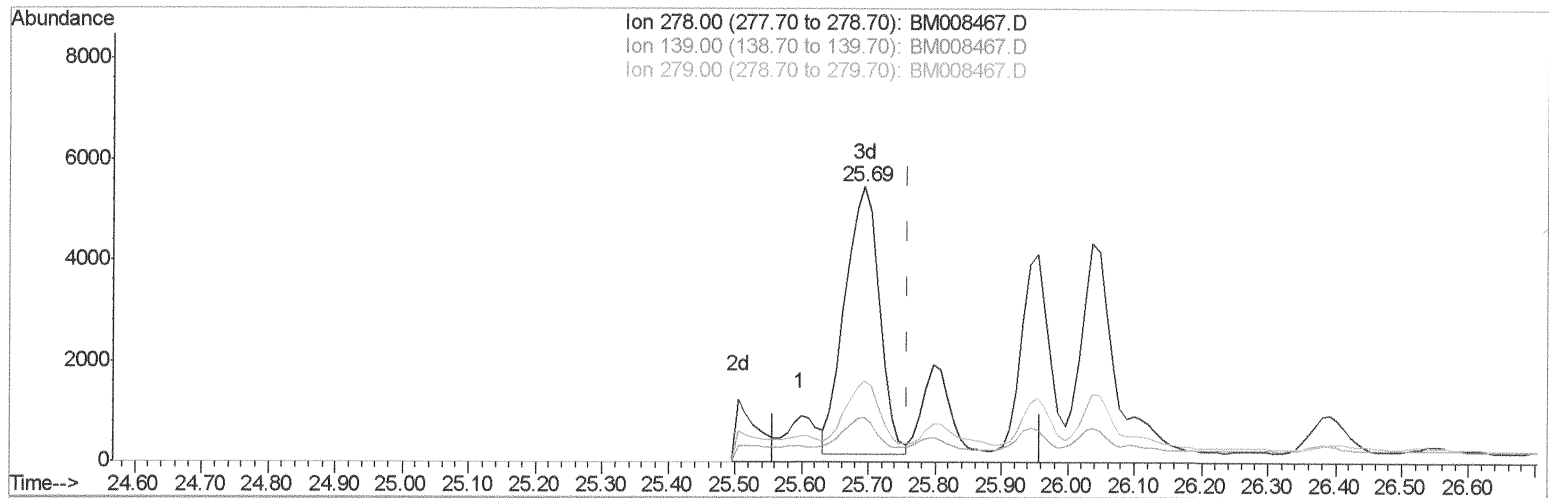
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008467.D
Acq On : 20 Dec 2016 06:35
Operator : UM/SJ
Sample : H5970-02
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA843

Manual Integrations
APPROVED

sohil
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Quant Time: Dec 20 13:45:24 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008467.D

(25) Dibenzo(a,h)anthracene

25.693min (-0.066) 3.15ng/ui m

SJ 12/21/16

response 19302

Ion	Exp%	Act%
278.00	100	100
139.00	21.70	16.29#
279.00	32.40	29.76
0.00	0.00	0.00

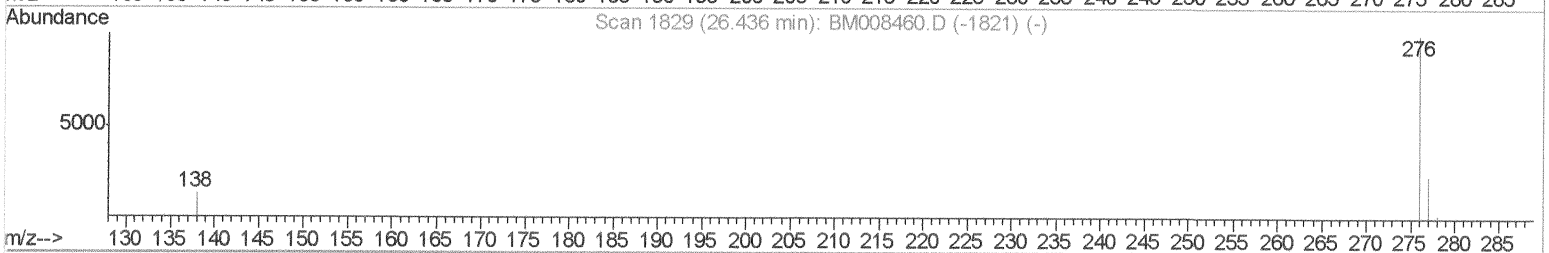
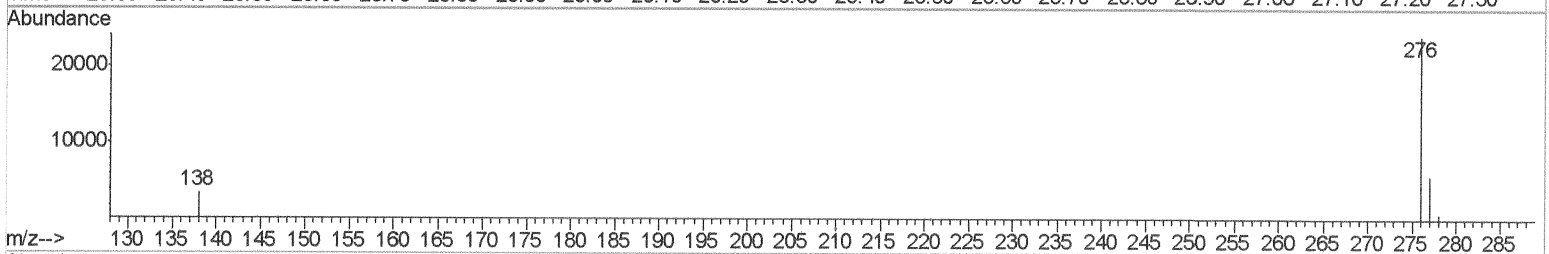
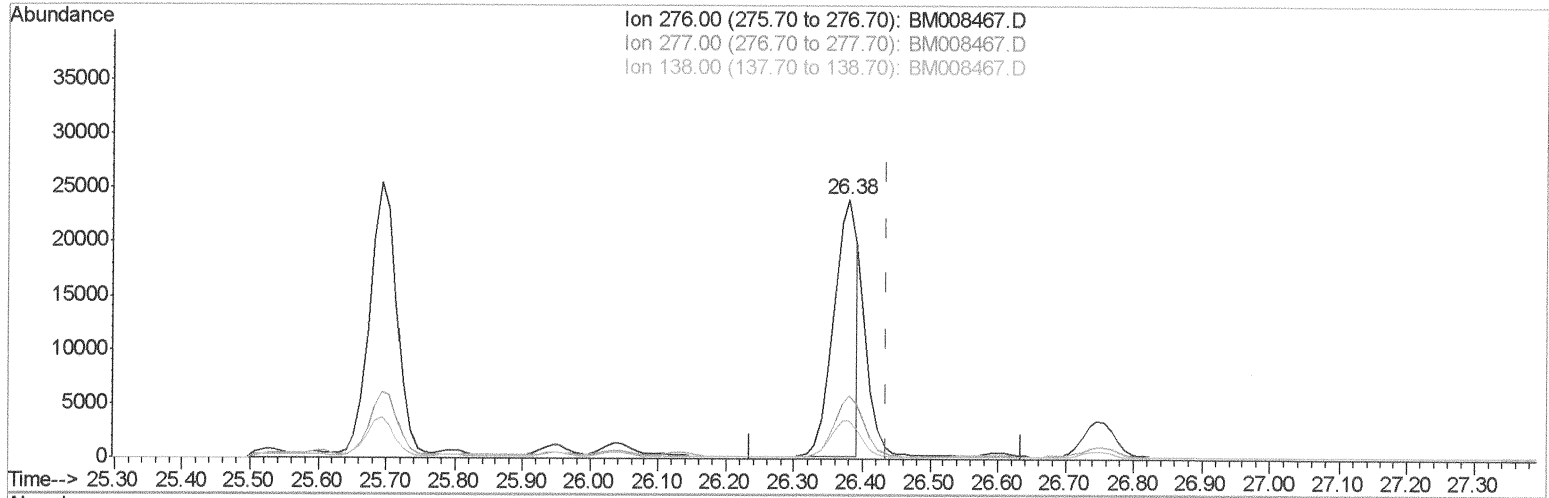
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008467.D
Acq On : 20 Dec 2016 06:35
Operator : UM/SJ
Sample : H5970-02
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA843

Manual Integrations
APPROVED

sohil
12/20/2016 6:31:35 PM

Quant Time: Dec 20 13:45:24 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008467.D

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

26.381min (-0.055) 8.89ng/ul

response 58391

Ion	Exp%	Act%
276.00	100	100
277.00	27.30	24.49
138.00	25.60	15.04#
0.00	0.00	0.00

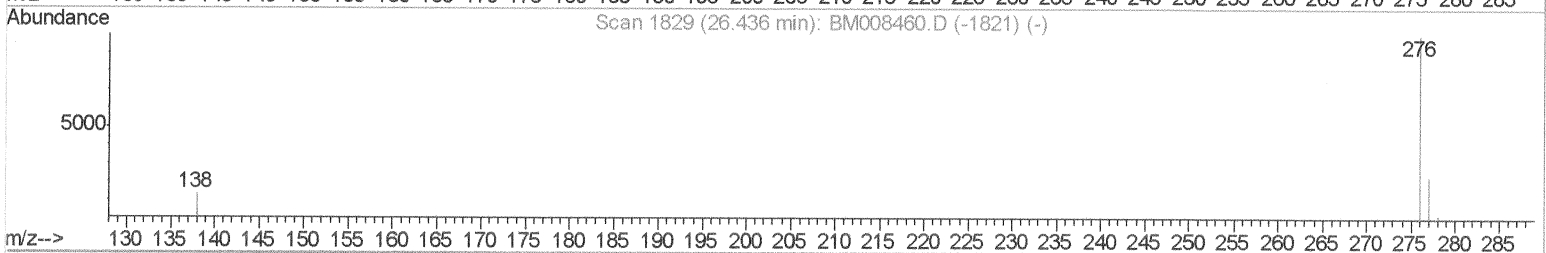
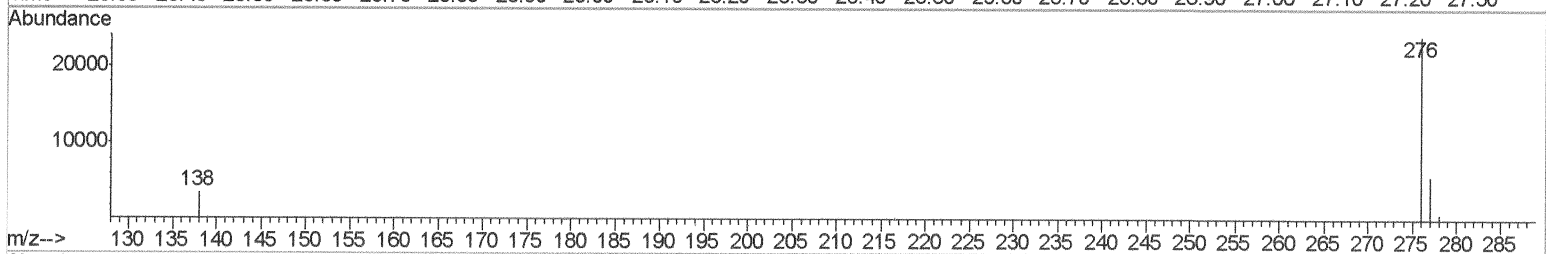
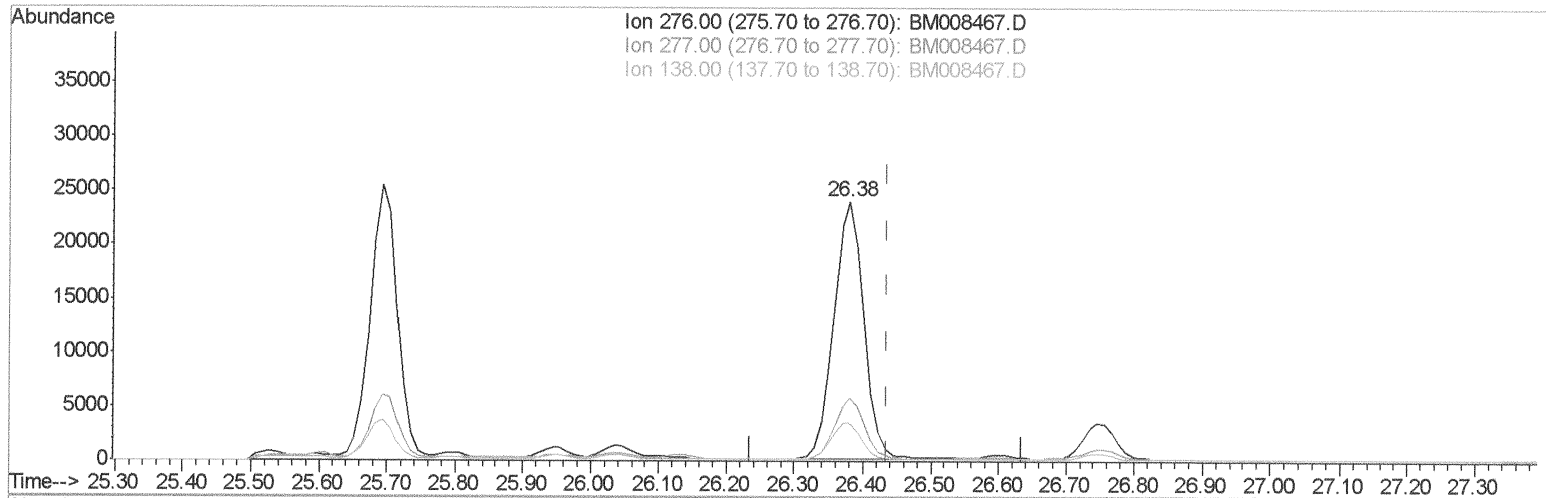
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008467.D
Acq On : 20 Dec 2016 06:35
Operator : UM/SJ
Sample : H5970-02
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA843

Manual Integrations
APPROVED

sohil
12/20/2016 6:31:35 PM

Quant Time: Dec 20 13:45:24 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 04:48:59 2016
Response via : Initial Calibration



TIC: BM008467.D

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

26.381min (-0.055) 11.12ng/ul m

SJ 12/21/16

response 73060

Ion	Exp%	Act%
276.00	100	100
277.00	27.30	24.49
138.00	25.60	15.04#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
 Data File : BM008467.D
 Acq On : 20 Dec 2016 06:35
 Operator : UM/SJ
 Sample : H5970-02
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA843

Manual Integrations
 APPROVED

sohil
 12/20/2016 6:31:35 PM

Quant Time: Dec 20 13:47:35 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 20 04:48:59 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.67	152	545	0.40	ng/ul	-0.06
2) Naphthalene-d8	10.43	136	2022	0.40	ng/ul	-0.06
6) Acenaphthene-d10	14.28	164	1320m	0.40	ng/ul	-0.03
10) Phenanthrene-d10	17.04	188	1947m	0.40	ng/ul	-0.05
16) Chrysene-d12	21.25	240	1985	0.40	ng/ul	-0.02
20) Perylene-d12	23.47	264	1760m	0.40	ng/ul	-0.03

} SJ 12/21/16

System Monitoring Compounds

4) 2-Methylnaphthalene-d10	12.02	152	718	0.23	ng/ul	-0.08
14) Fluoranthene-d10	19.08	212	1663	0.31	ng/ul	-0.03

Target Compounds

					Qvalue
3) Naphthalene	10.48	128	10316	1.81	ng/ul 95
5) 2-Methylnaphthalene	12.09	142	10667	2.79	ng/ul 99
7) Acenaphthylene	14.01	152	5048	0.85	ng/ul# 94
8) Acenaphthene	14.35	153	2971	0.66	ng/ul 99
9) Fluorene	15.34	166	5082	0.99	ng/ul# 76
12) Phenanthrene	17.07	178	44868	7.55	ng/ul 98
13) Anthracene	17.18	178	11946	2.07	ng/ul 96
15) Fluoranthene	19.11	202	83271	11.42	ng/ul 94
17) Pyrene	19.47	202	88366	11.52	ng/ul 96
18) Benzo(a)anthracene	21.23	228	63279	9.71	ng/ul 96
19) Chrysene	21.28	228	65056	9.12	ng/ul 98
21) Benzo(b)fluoranthene	22.81	252	129174m	18.63	ng/ul
22) Benzo(k)fluoranthene	22.84	252	41666m	6.16	ng/ul
23) Benzo(a)pyrene	23.37	252	81711m	12.71	ng/ul
24) Indeno(1,2,3-cd)pyrene	25.69	276	70844m	9.25	ng/ul
25) Dibenzo(a,h)anthracene	25.69	278	19302m	3.15	ng/ul
26) Benzo(g,h,i)perylene	26.38	276	73060m	11.12	ng/ul

} SJ 12/21/16

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