

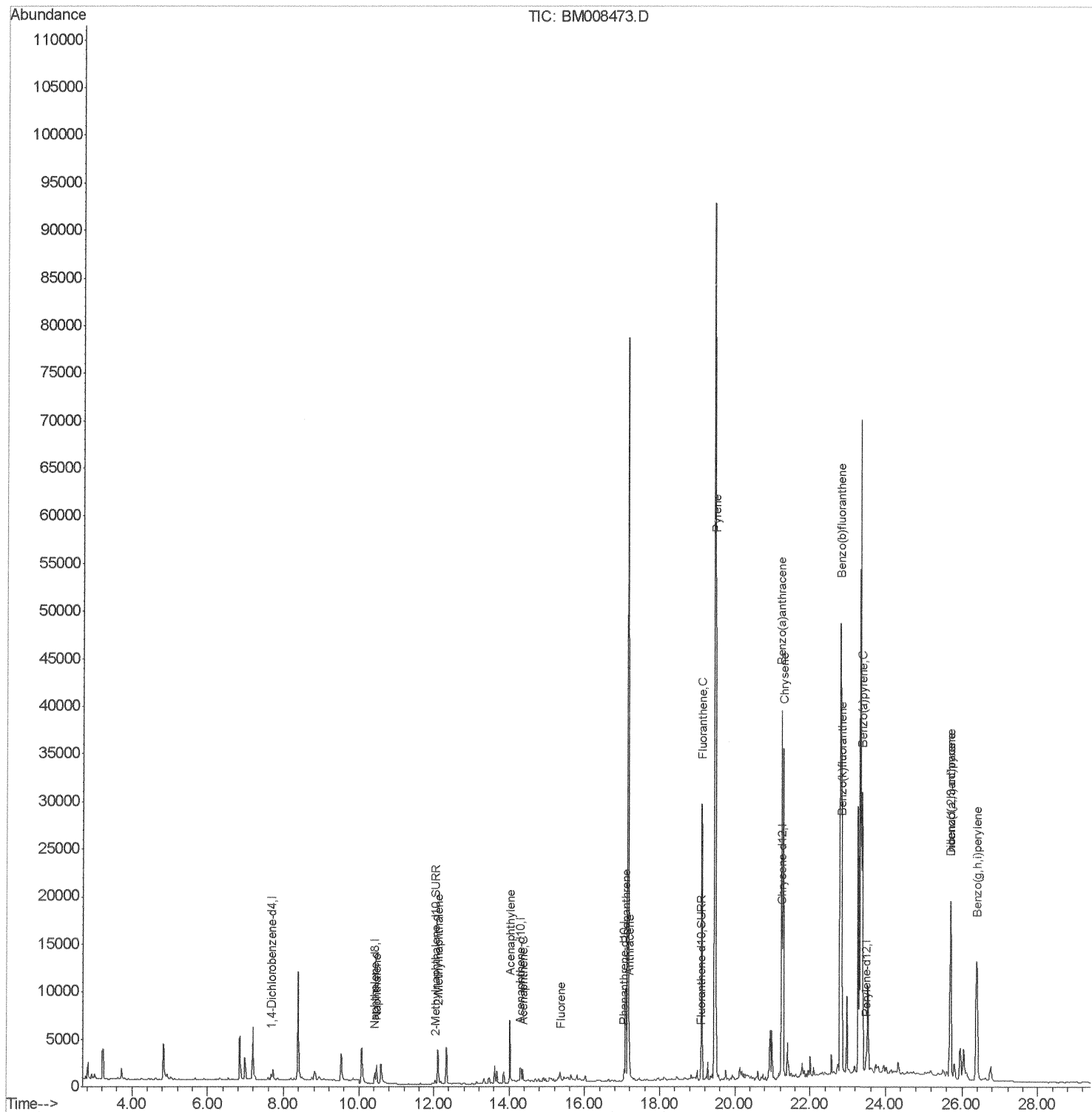
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008473.D
Acq On : 20 Dec 2016 10:46
Operator : UM/SJ
Sample : H5970-17
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA856

Manual Integrations
APPROVED

sohil
12/20/2016 6:31:46 PM

Quant Time: Dec 20 14:46:35 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



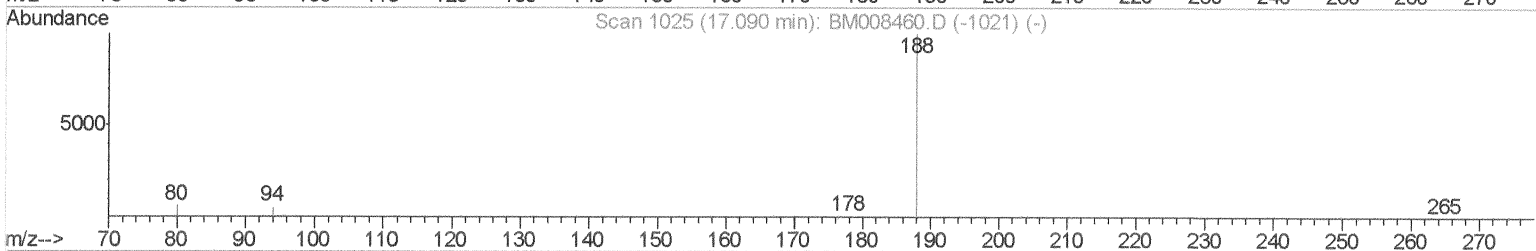
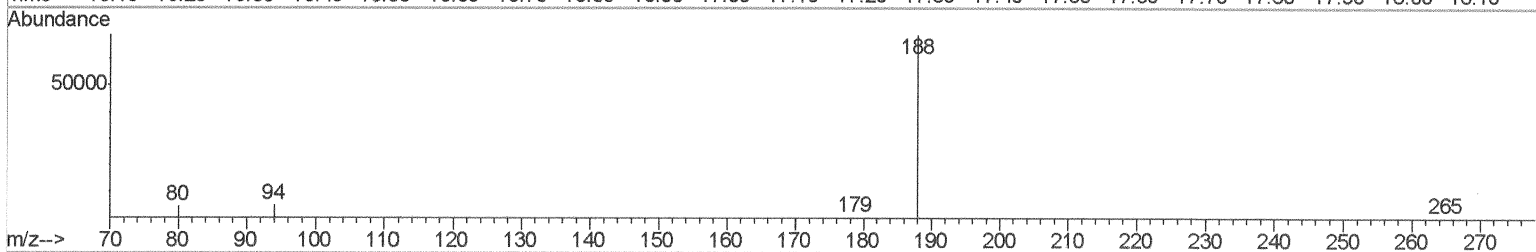
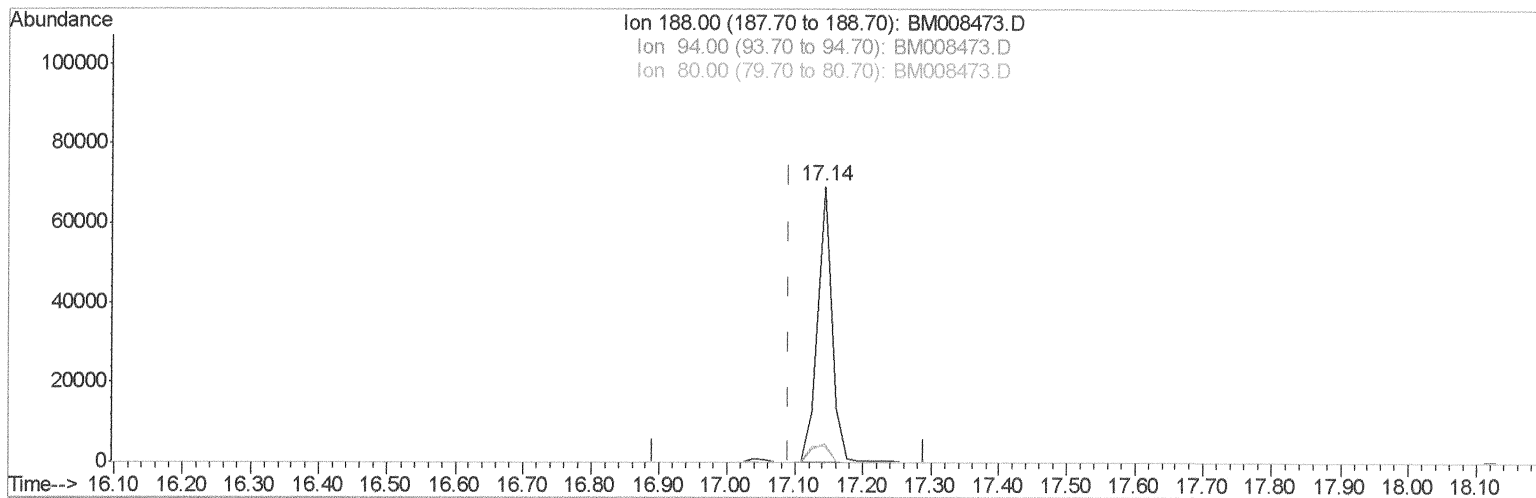
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008473.D
Acq On : 20 Dec 2016 10:46
Operator : UM/SJ
Sample : H5970-17
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Instrument :
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ClientSampleId :
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Manual Integrations
APPROVED

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12/20/2016 6:31:46 PM

Quant Time: Dec 20 14:32:45 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: BM008473.D

(10) Phenanthrene-d10 (I)

17.142min (+0.052) 0.40ng/ul

response 98621

Ion	Exp%	Act%
188.00	100	100
94.00	11.00	6.82#
80.00	11.80	6.11#
0.00	0.00	0.00

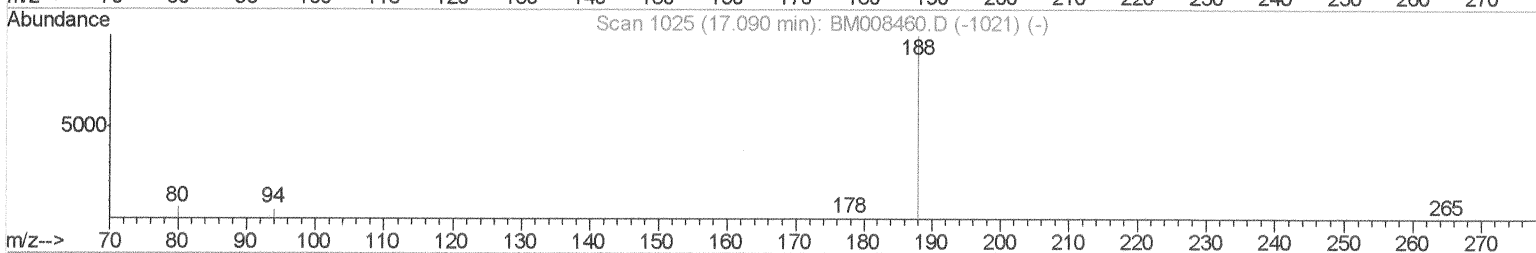
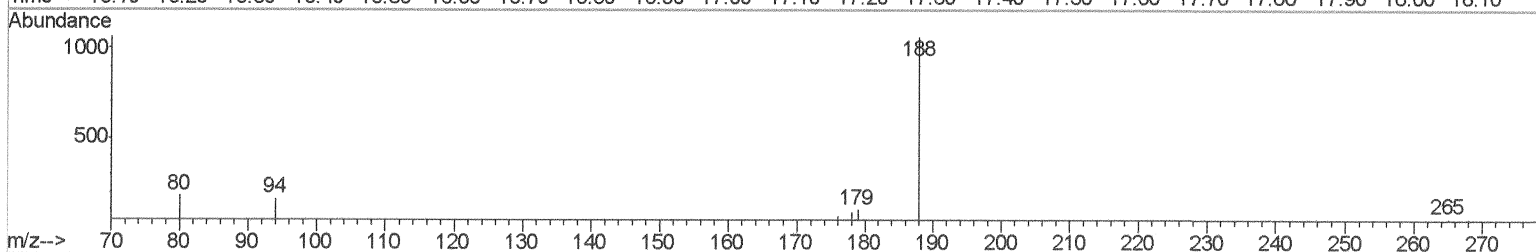
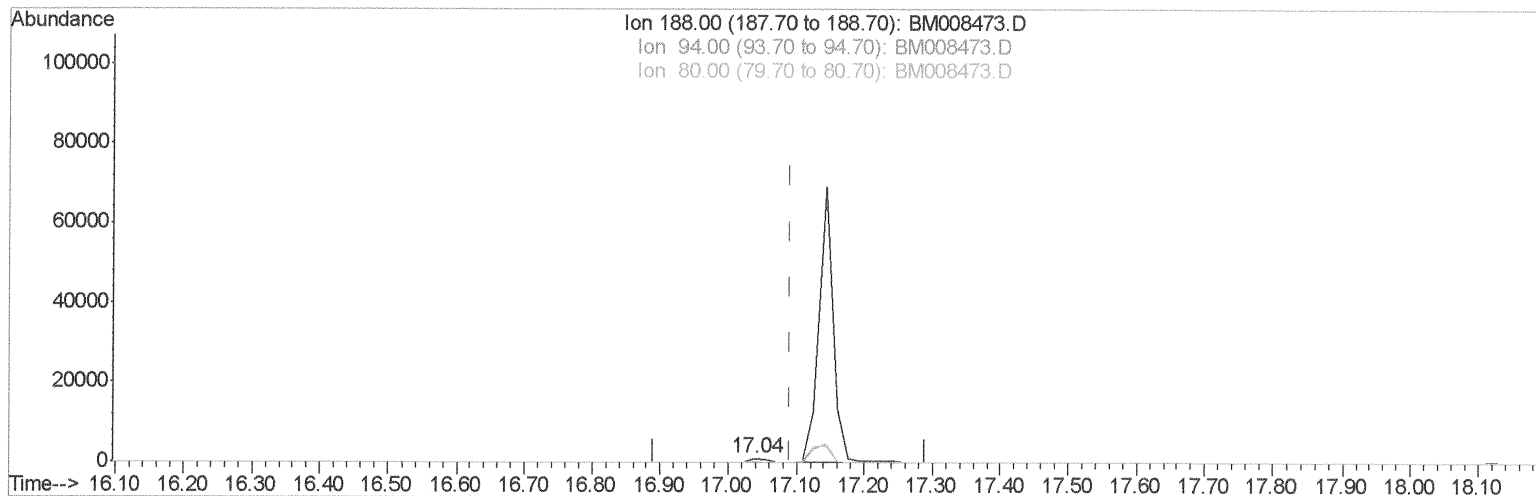
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008473.D
Acq On : 20 Dec 2016 10:46
Operator : UM/SJ
Sample : H5970-17
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Manual Integrations
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Quant Time: Dec 20 14:32:45 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
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TIC: BM008473.D

(10) Phenanthrene-d10 (I)

17.039min (-0.051) 0.40ng/ul m

SJ 12/21/16

response 1740

Ion	Exp%	Act%
188.00	100	100
94.00	11.00	15.01#
80.00	11.80	16.79#
0.00	0.00	0.00

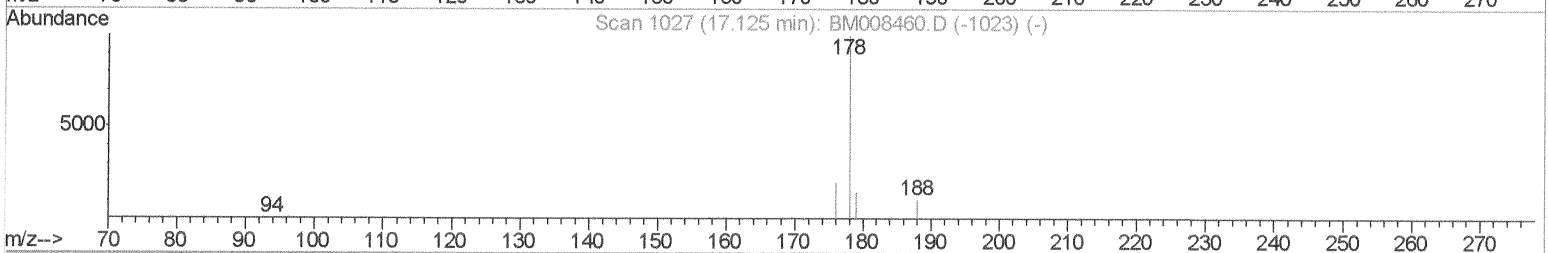
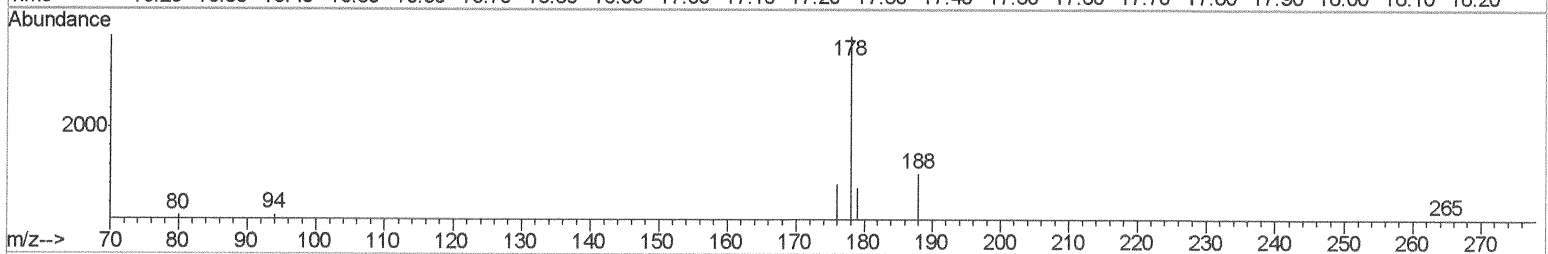
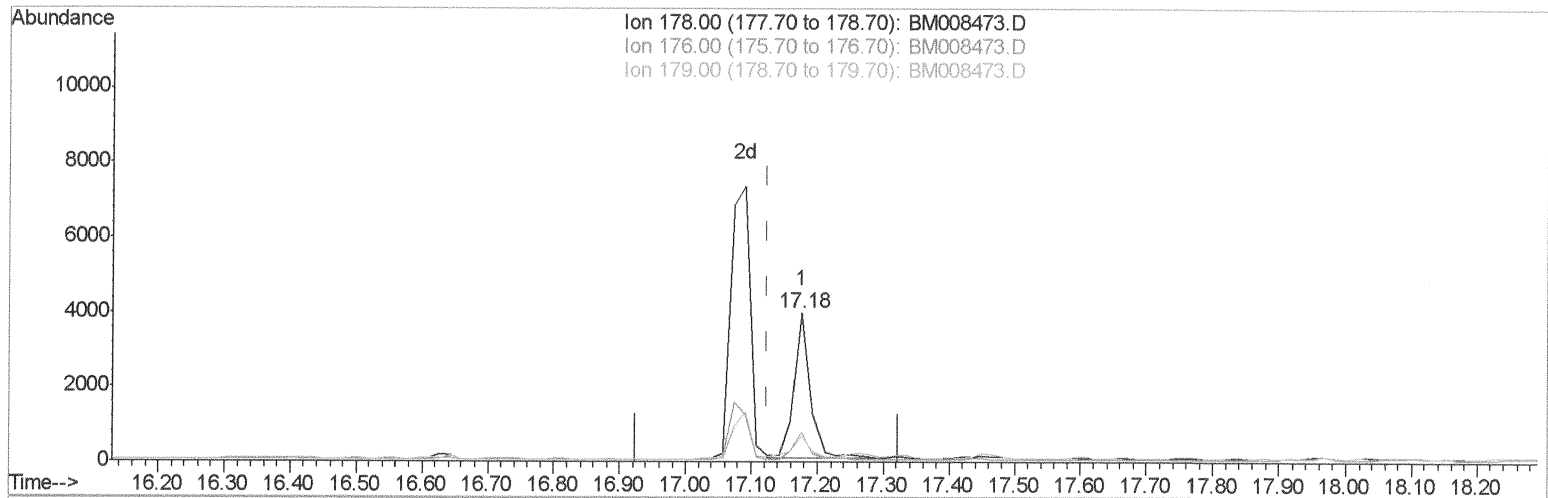
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008473.D
Acq On : 20 Dec 2016 10:46
Operator : UM/SJ
Sample : H5970-17
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Manual Integrations
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Quant Time: Dec 20 14:36:35 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
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TIC: BM008473.D

(12) Phenanthrene

17.176min (+0.052) 1.26ng/ul

response 6698

Ion	Exp%	Act%
178.00	100	100
176.00	23.00	19.92
179.00	17.00	17.83
0.00	0.00	0.00

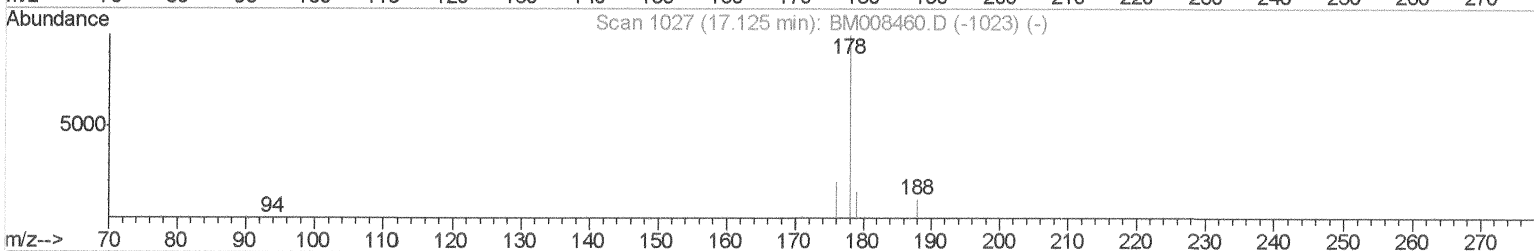
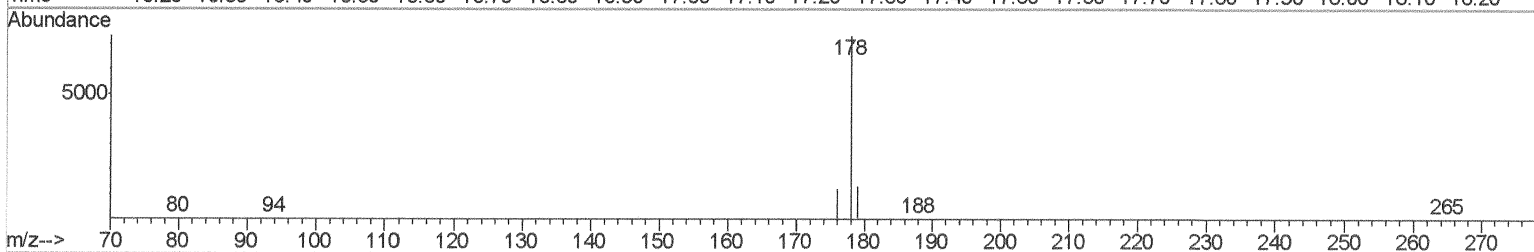
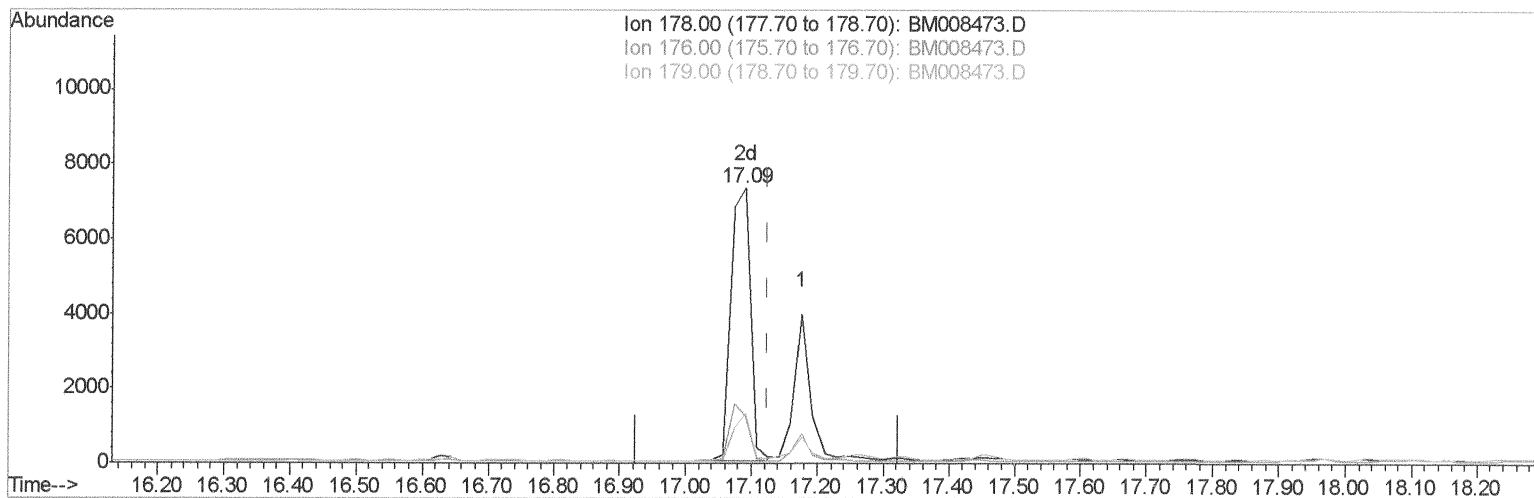
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008473.D
Acq On : 20 Dec 2016 10:46
Operator : UM/SJ
Sample : H5970-17
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA856

Manual Integrations
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Quant Time: Dec 20 14:36:35 2016
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TIC: BM008473.D

(12) Phenanthrene

17.090min (-0.034) 2.88ng/ul m

SJ 12/21/16

response 15303

Ion	Exp%	Act%
178.00	100	100
176.00	23.00	17.26#
179.00	17.00	18.18
0.00	0.00	0.00

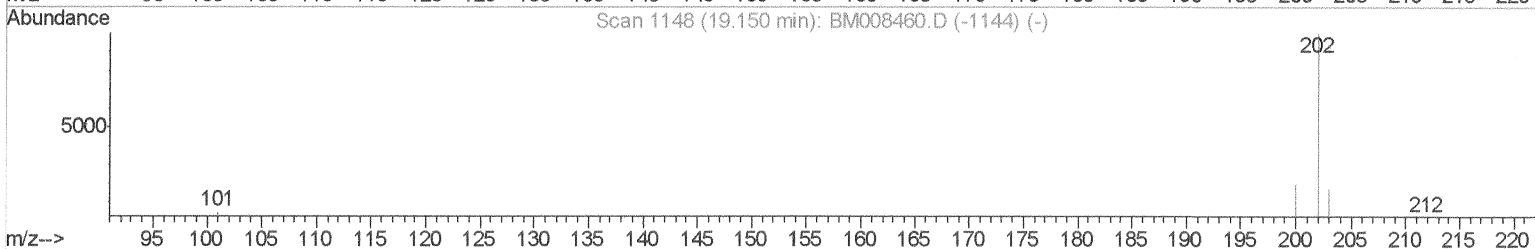
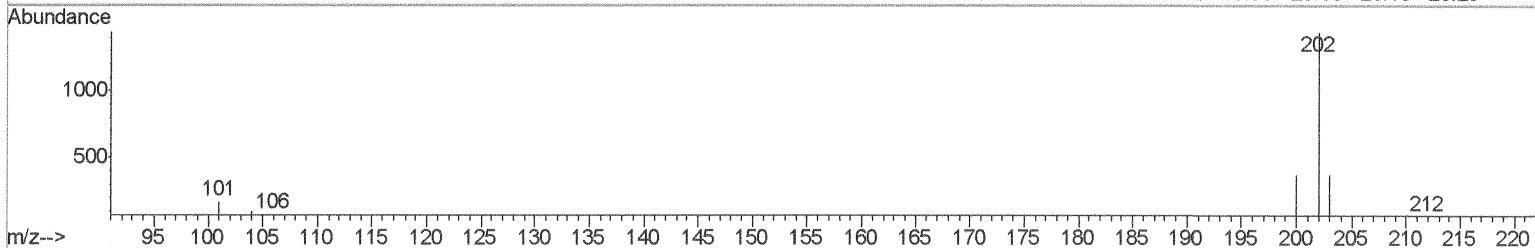
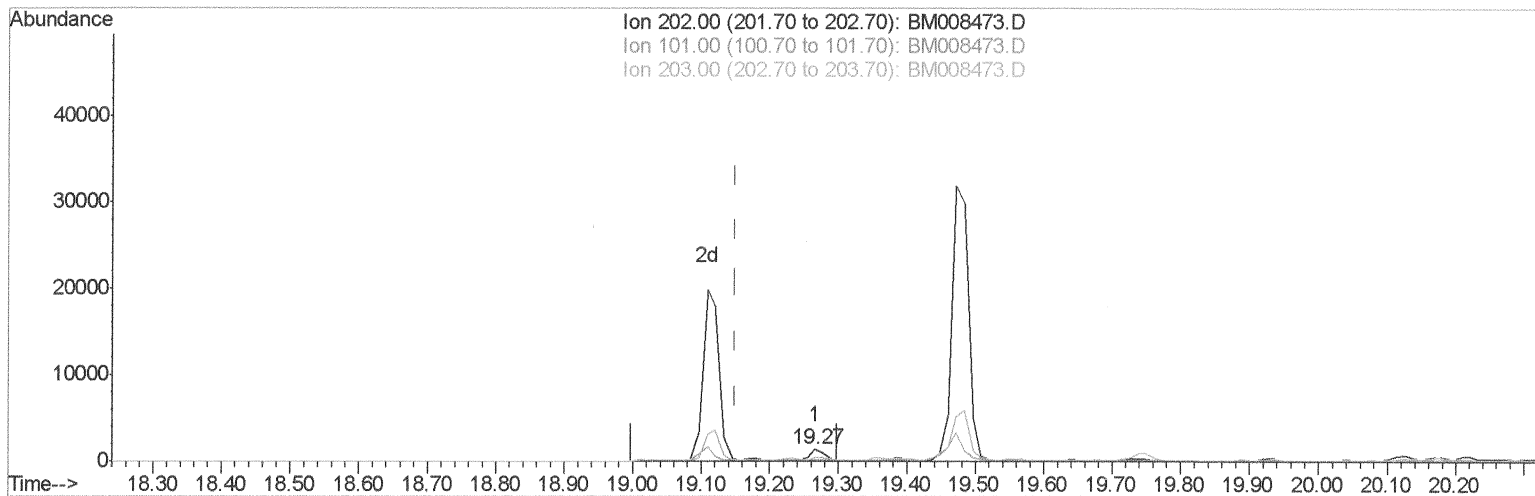
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008473.D
Acq On : 20 Dec 2016 10:46
Operator : UM/SJ
Sample : H5970-17
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Manual Integrations
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Quant Time: Dec 20 14:36:35 2016
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TIC: BM008473.D

(15) Fluoranthene (C)

19.266min (+0.116) 0.28ng/ul

response 1822

Ion	Exp%	Act%
202.00	100	100
101.00	10.30	11.76
203.00	19.50	25.47
0.00	0.00	0.00

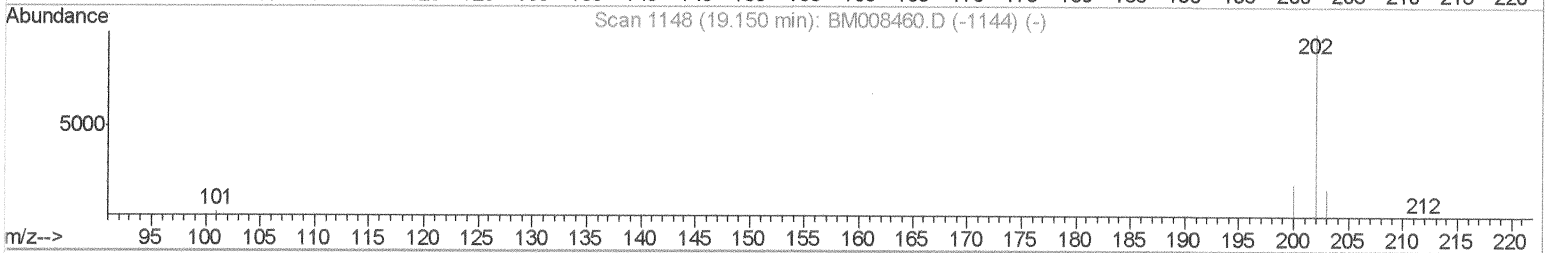
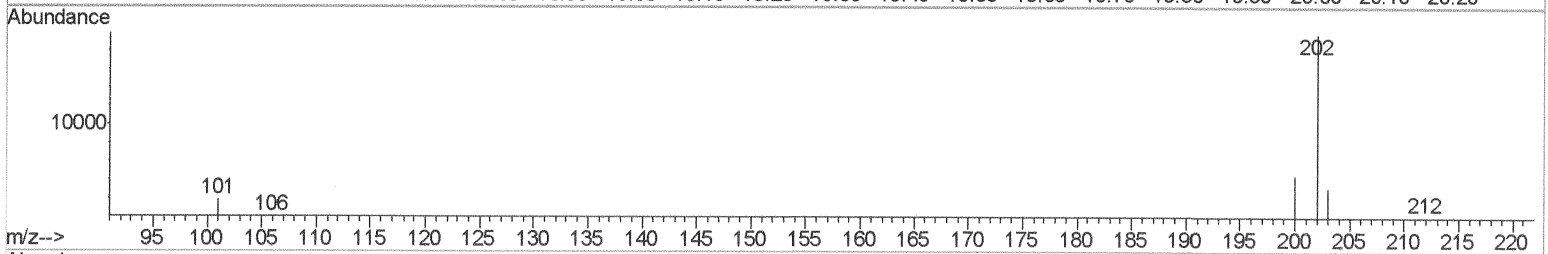
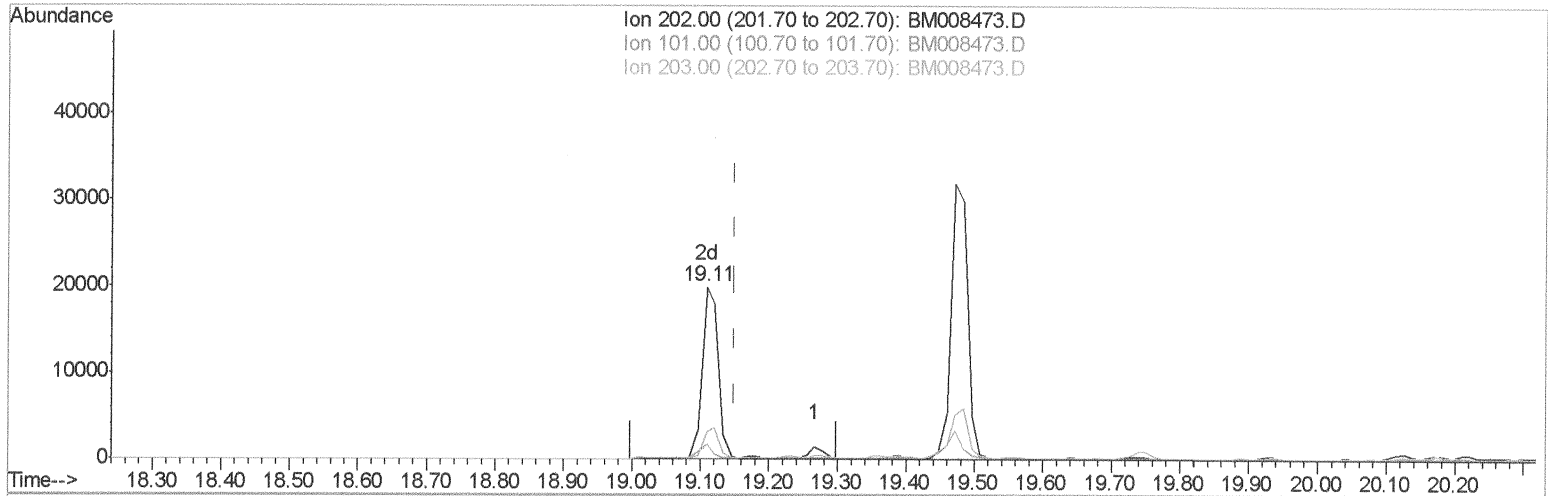
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008473.D
Acq On : 20 Dec 2016 10:46
Operator : UM/SJ
Sample : H5970-17
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
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Manual Integrations
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Quant Time: Dec 20 14:36:35 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
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Response via : Initial Calibration



TIC: BM008473.D

(15) Fluoranthene (C)

19.108min (-0.041) 4.92ng/ul m 57 12/21/16

response 32056

Ion	Exp%	Act%
202.00	100	100
101.00	10.30	9.04
203.00	19.50	16.22
0.00	0.00	0.00

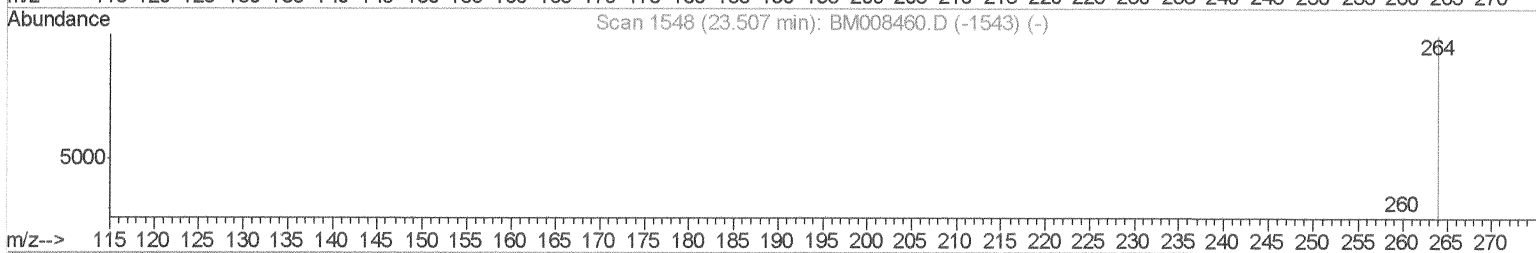
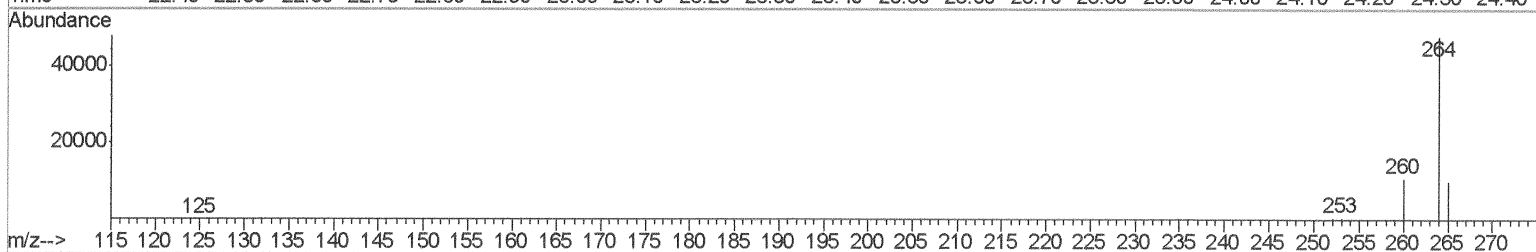
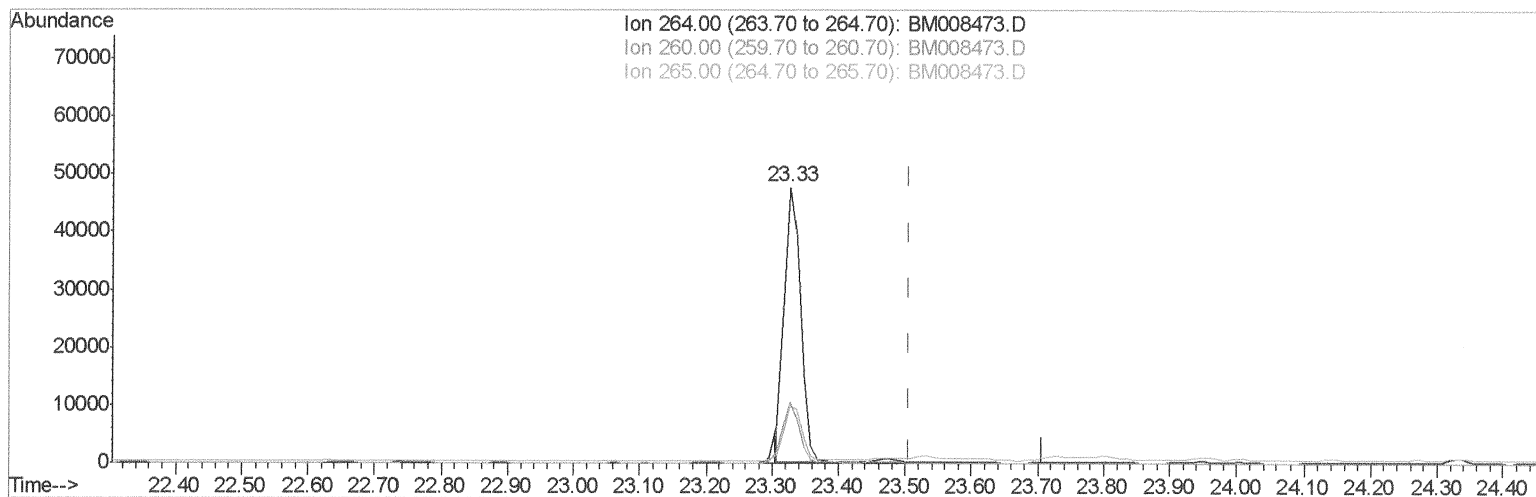
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008473.D
Acq On : 20 Dec 2016 10:46
Operator : UM/SJ
Sample : H5970-17
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA856

Manual Integrations
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Quant Time: Dec 20 14:36:35 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
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TIC: BM008473.D

(20) Perylene-d12 (I)

23.326min (-0.180) 0.40ng/ul

response 81810

Ion	Exp%	Act%
264.00	100	100
260.00	30.10	22.44#
265.00	103.50	21.20#
0.00	0.00	0.00

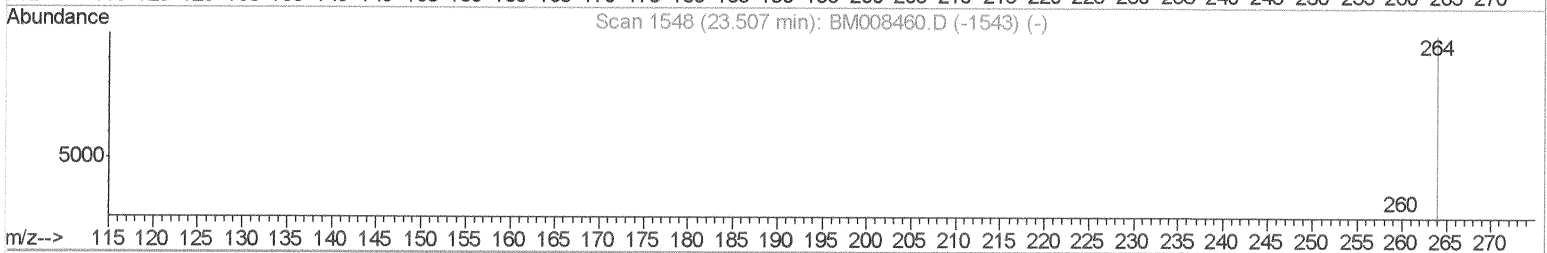
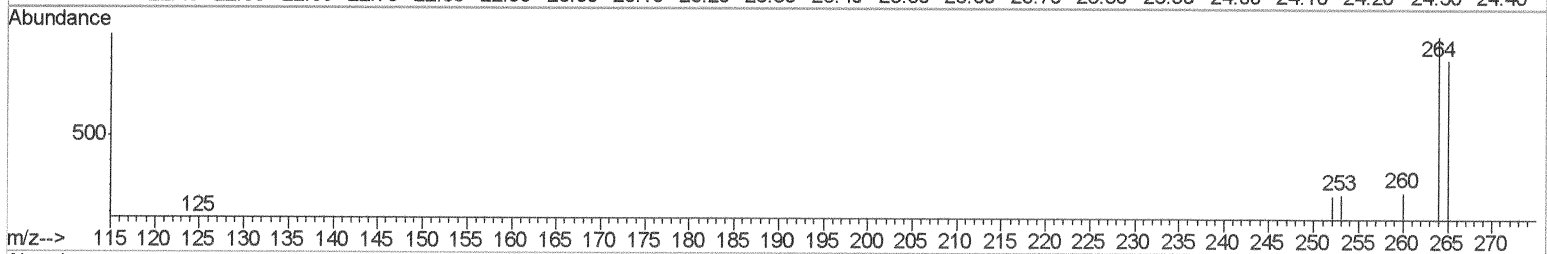
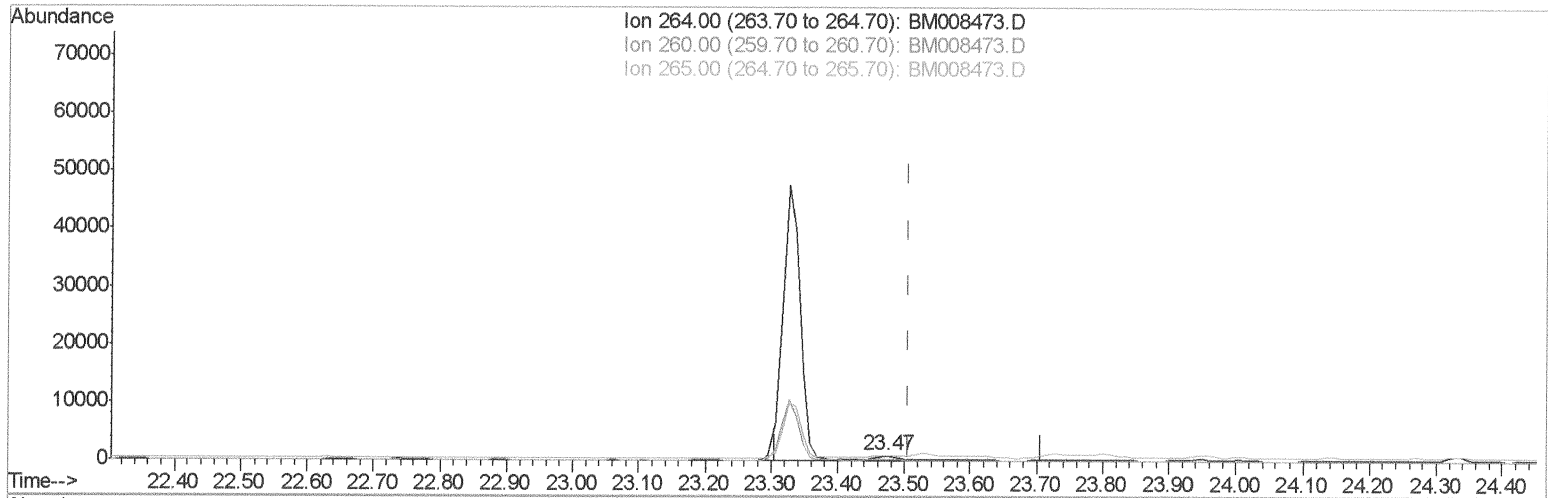
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008473.D
Acq On : 20 Dec 2016 10:46
Operator : UM/SJ
Sample : H5970-17
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA856

Manual Integrations
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Quant Time: Dec 20 14:36:35 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
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Response via : Initial Calibration



TIC: BM008473.D

(20) Perylene-d12 (I)

23.472min (-0.034) 0.40ng/ul m

SJ 12/21/16

response 1409

Ion	Exp%	Act%
264.00	100	100
260.00	30.10	31.56
265.00	103.50	89.67
0.00	0.00	0.00

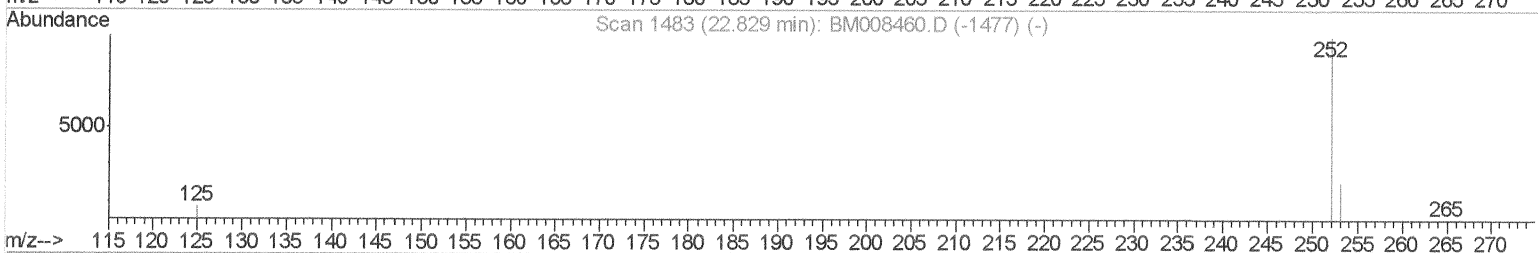
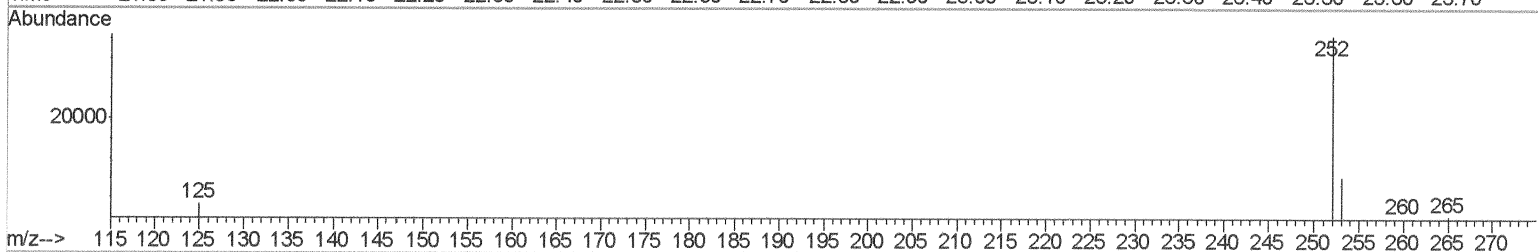
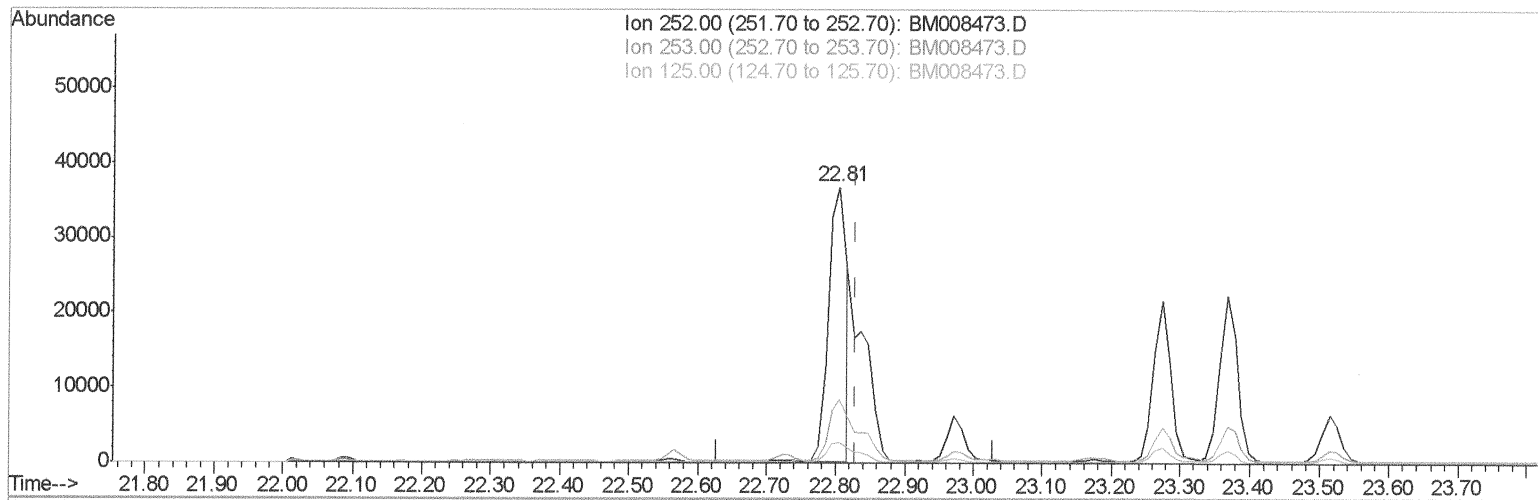
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008473.D
Acq On : 20 Dec 2016 10:46
Operator : UM/SJ
Sample : H5970-17
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA856

Manual Integrations
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Quant Time: Dec 20 14:43:54 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: BM008473.D

(21) Benzo(b)fluoranthene

22.805min (-0.024) 12.35ng/ul

response 68565

Ion	Exp%	Act%
252.00	100	100
253.00	32.10	23.07
125.00	17.50	7.69
0.00	0.00	0.00

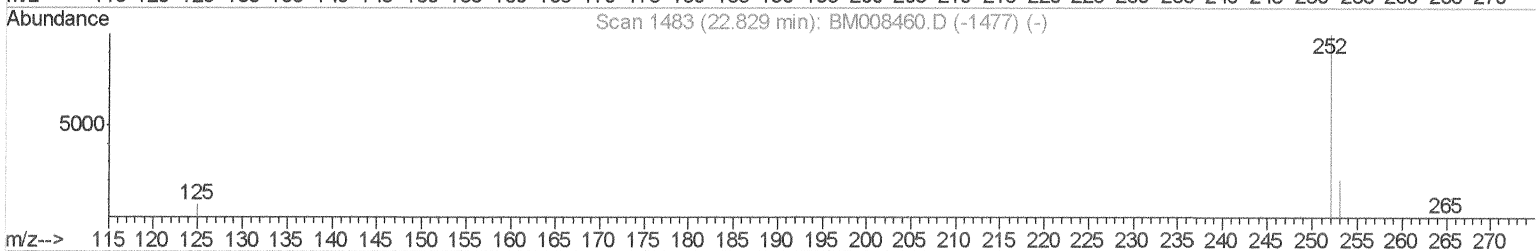
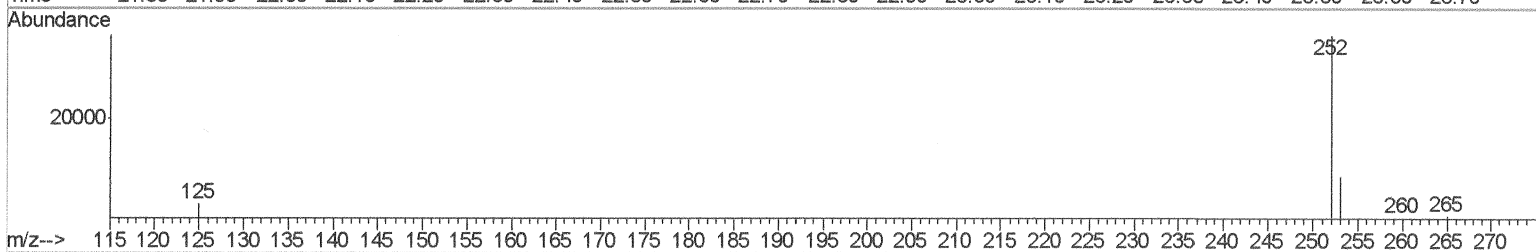
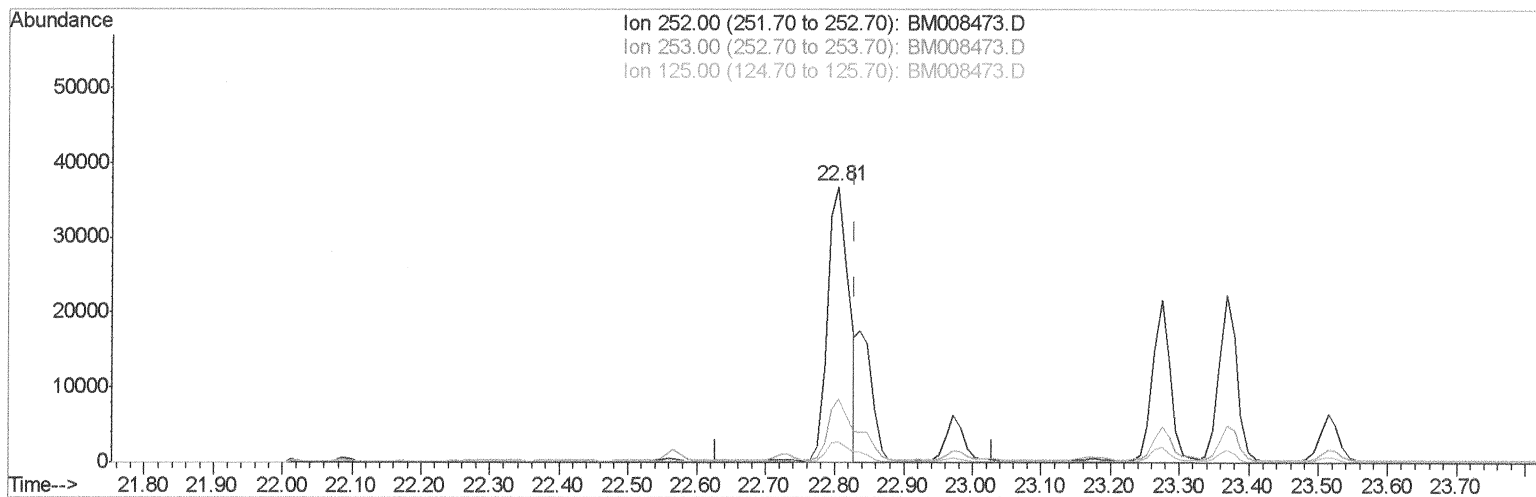
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008473.D
Acq On : 20 Dec 2016 10:46
Operator : UM/SJ
Sample : H5970-17
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampled :
DA856

Manual Integrations
APPROVED

sohil
12/20/2016 6:31:46 PM

Quant Time: Dec 20 14:43:54 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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TIC: BM008473.D

(21) Benzo(b)fluoranthene

22.805min (-0.024) 14.43ng/ul m

SJ 12/21/16

response 80085

Ion	Exp%	Act%
252.00	100	100
253.00	32.10	23.07
125.00	17.50	7.69
0.00	0.00	0.00

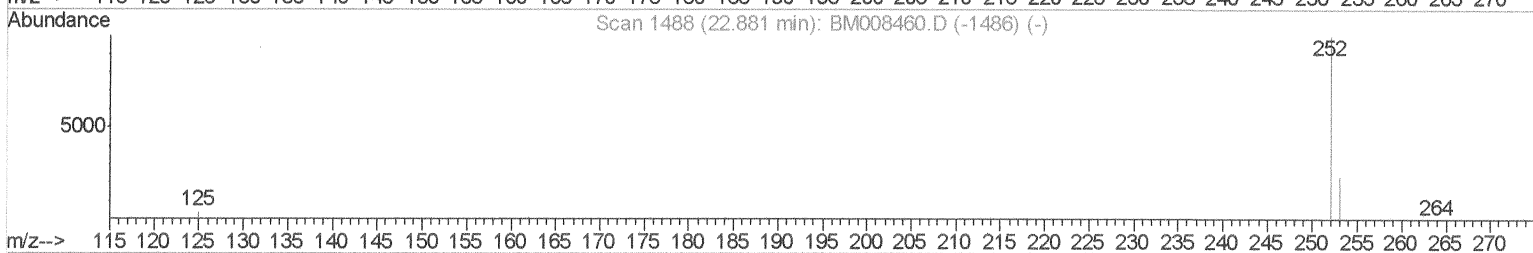
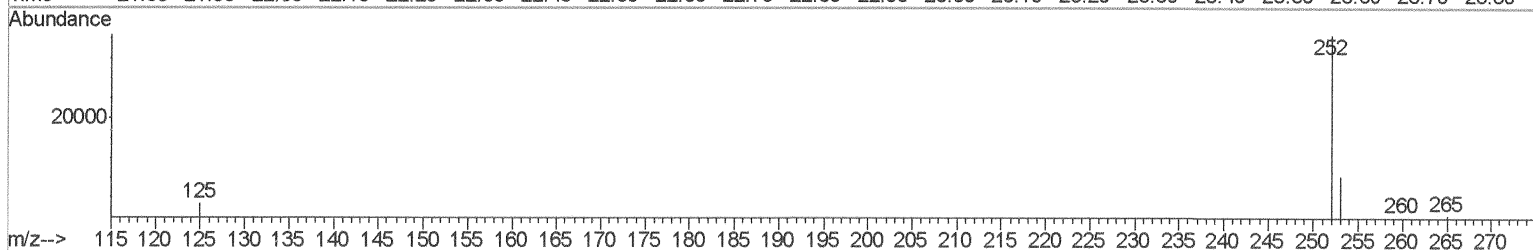
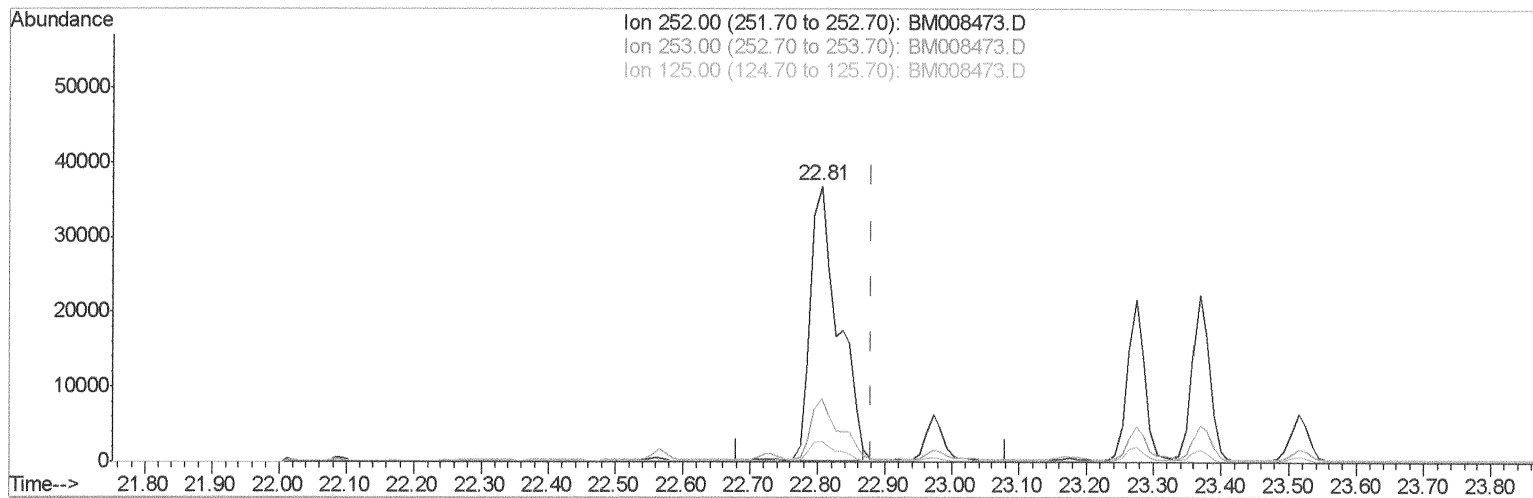
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008473.D
Acq On : 20 Dec 2016 10:46
Operator : UM/SJ
Sample : H5970-17
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA856

Manual Integrations
APPROVED

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Quant Time: Dec 20 14:43:54 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
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Response via : Initial Calibration



TIC: BM008473.D

(22) Benzo(k)fluoranthene

22.805min (-0.076) 19.34ng/ul

response 104685

Ion	Exp%	Act%
252.00	100	100
253.00	30.60	23.07#
125.00	17.10	7.69#
0.00	0.00	0.00

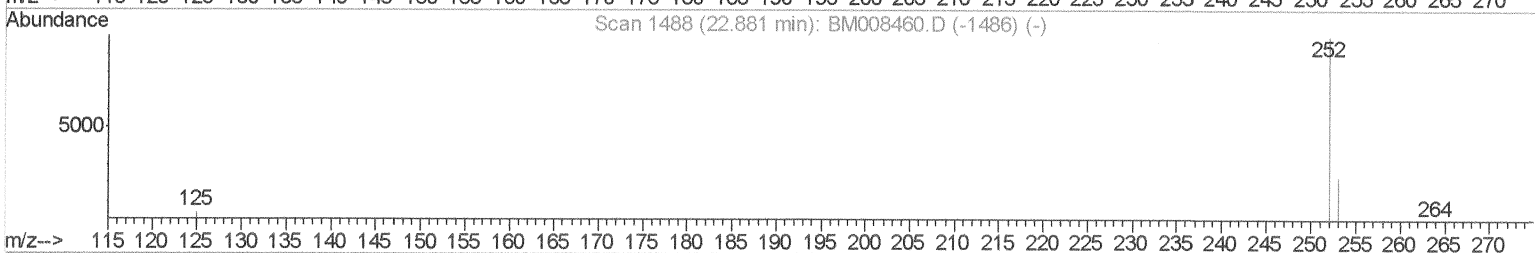
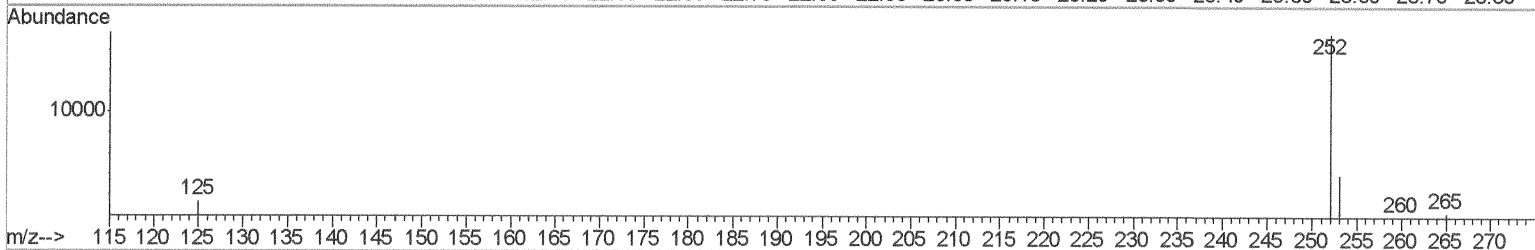
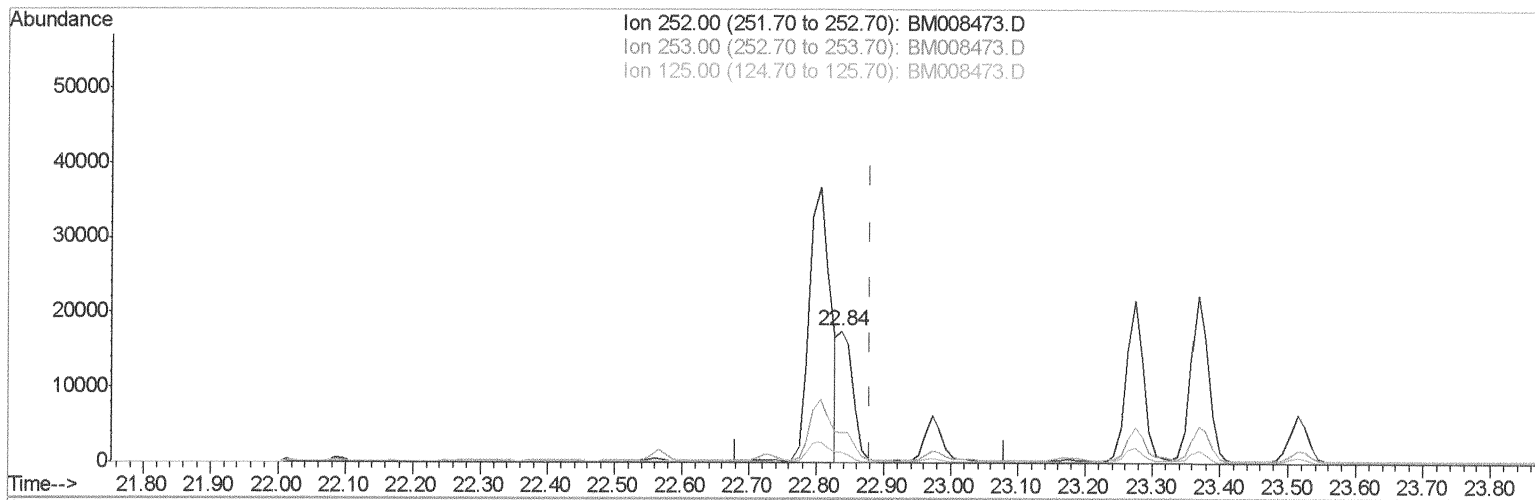
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008473.D
Acq On : 20 Dec 2016 10:46
Operator : UM/SJ
Sample : H5970-17
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
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Manual Integrations
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TIC: BM008473.D

(22) Benzo(k)fluoranthene

22.836min (-0.045) 5.00ng/ul m

SJ 12/21/16

response 27042

Ion	Exp%	Act%
252.00	100	100
253.00	30.60	22.84#
125.00	17.10	8.17#
0.00	0.00	0.00

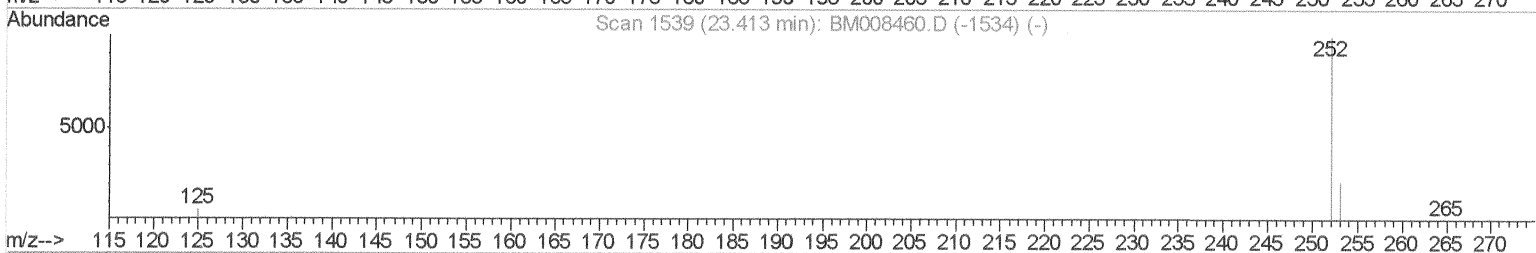
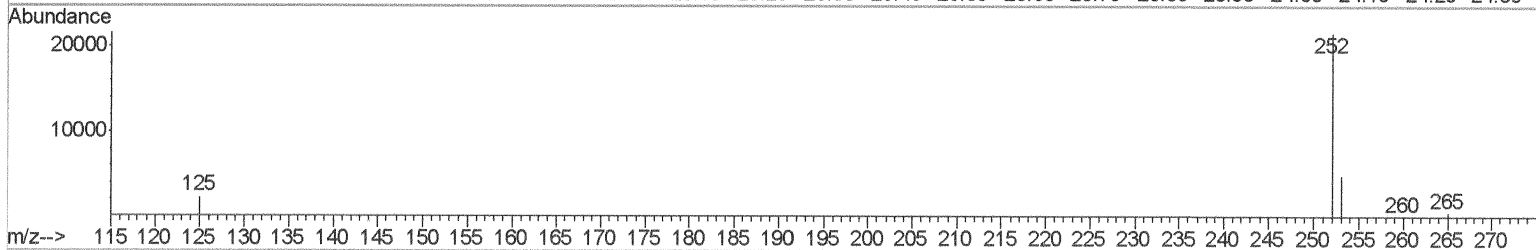
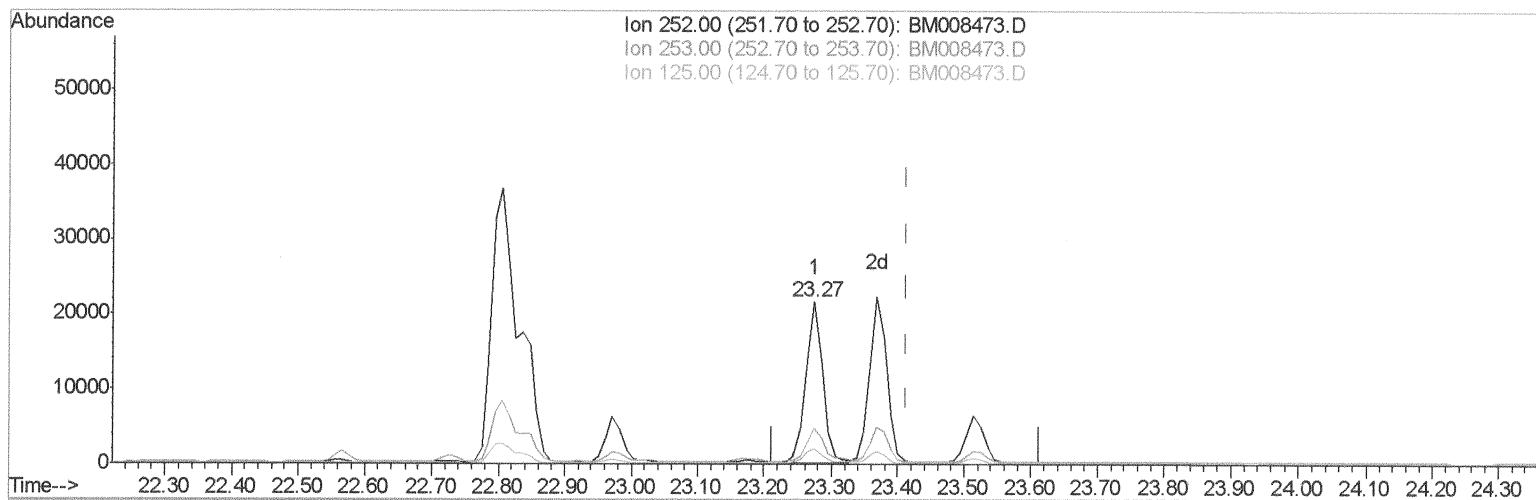
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008473.D
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Sample : H5970-17
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
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Manual Integrations
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TIC: BM008473.D

(23) Benzo(a)pyrene (C)
23.274min (-0.139) 7.35ng/ul
response 37833
Ion Exp% Act%
252.00 100 100
253.00 35.60 22.39#
125.00 22.60 10.27#
0.00 0.00 0.00

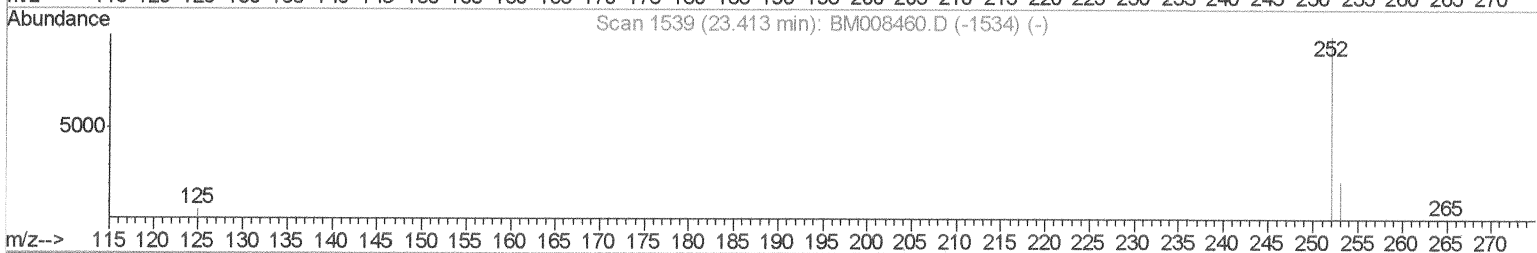
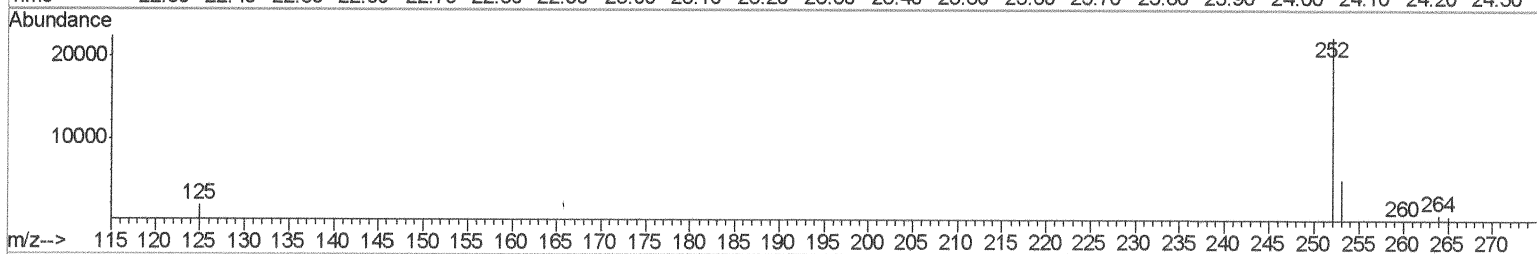
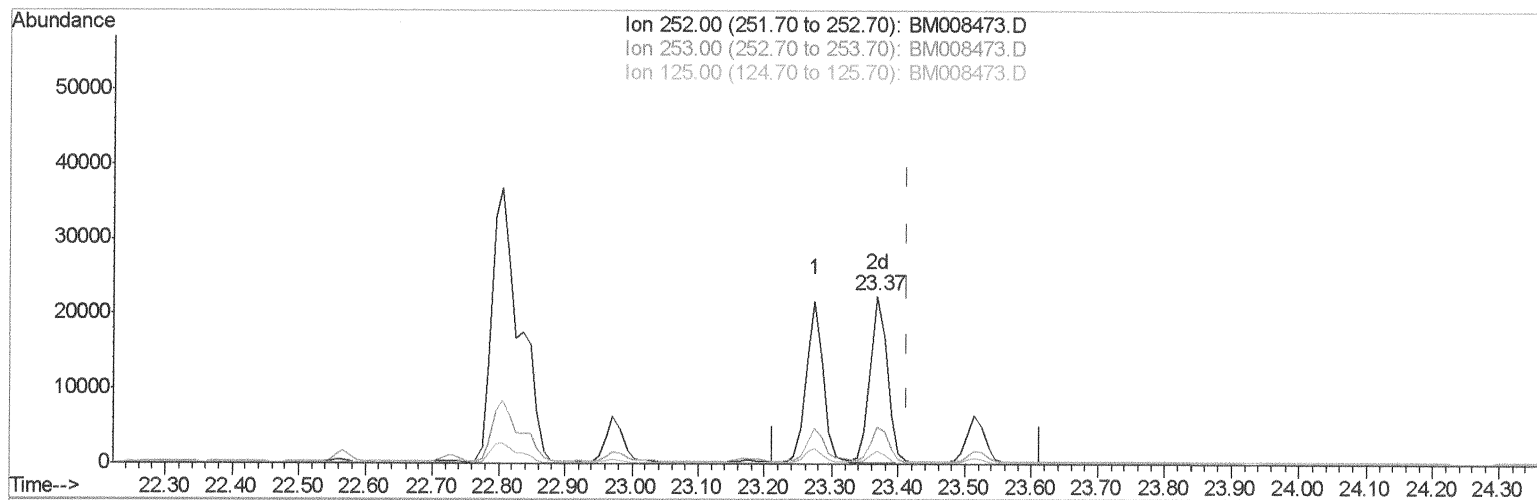
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008473.D
Acq On : 20 Dec 2016 10:46
Operator : UM/SJ
Sample : H5970-17
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA856

Manual Integrations
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sohil
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Quant Time: Dec 20 14:43:54 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: BM008473.D

(23) Benzo(a)pyrene (C)

23.368min (-0.045) 7.95ng/ul m SJ 12/21/16

response 40911

Ion	Exp%	Act%
252.00	100	100
253.00	35.60	22.63#
125.00	22.60	8.25#
0.00	0.00	0.00

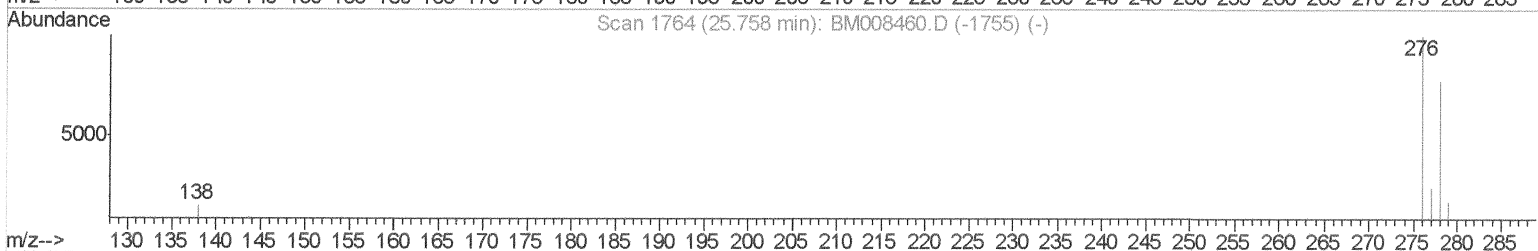
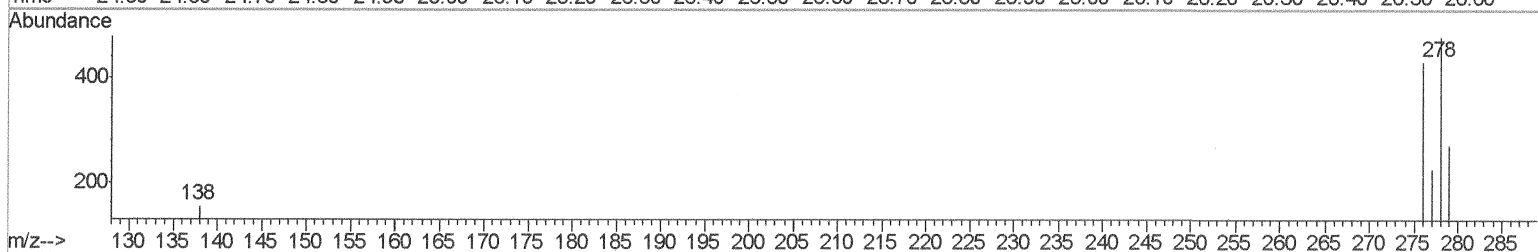
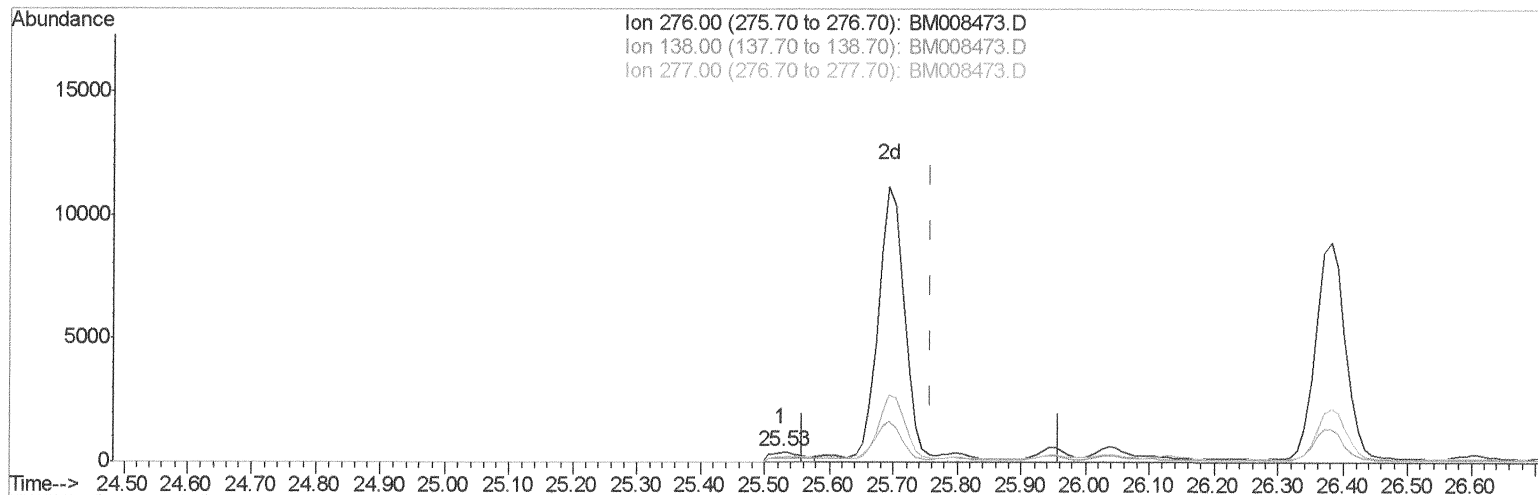
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008473.D
Acq On : 20 Dec 2016 10:46
Operator : UM/SJ
Sample : H5970-17
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA856

Manual Integrations
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Quant Time: Dec 20 14:43:54 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: BM008473.D

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

25.526min (-0.233) 0.26ng/ul

response 1573

Ion	Exp%	Act%
276.00	100	100
138.00	23.90	40.05#
277.00	24.50	57.41#
0.00	0.00	0.00

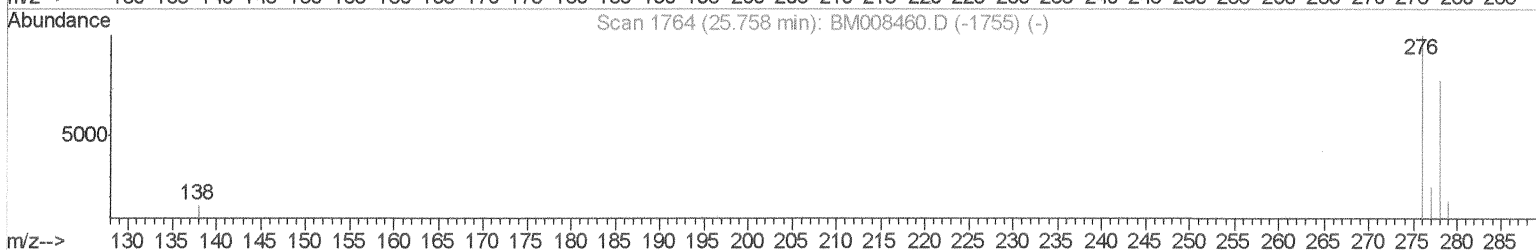
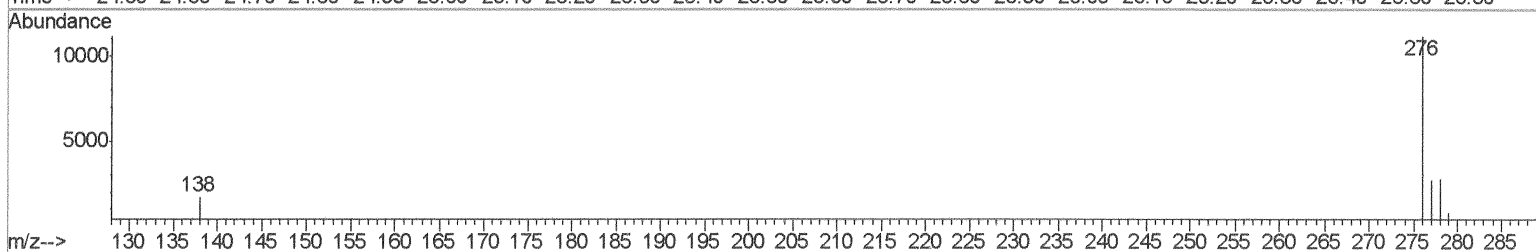
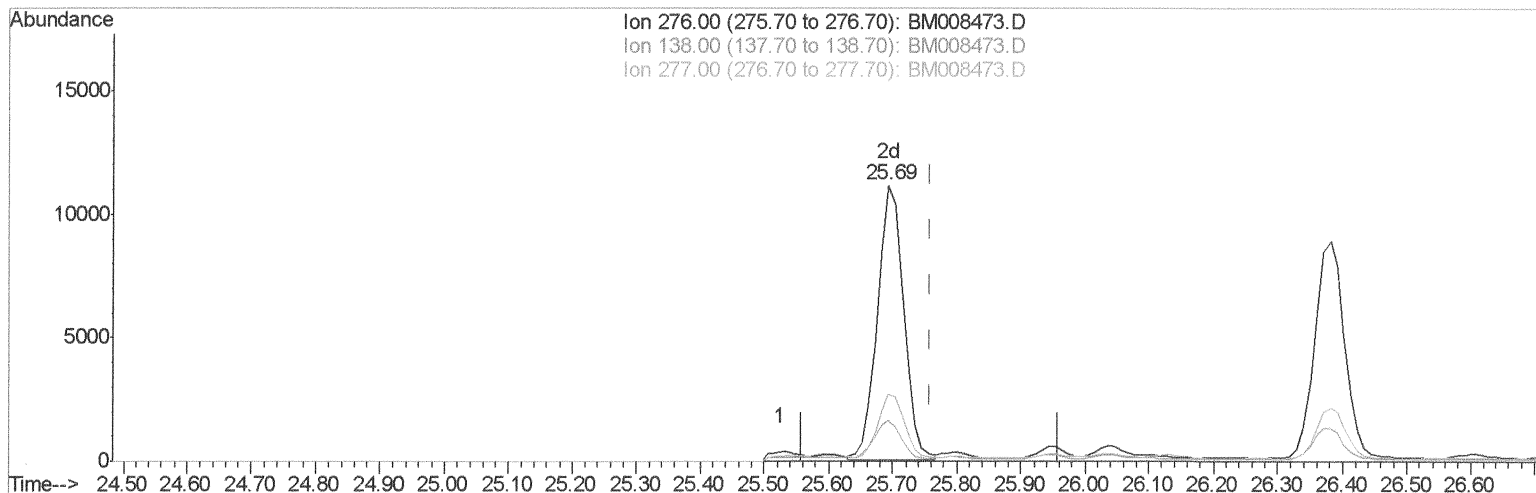
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008473.D
Acq On : 20 Dec 2016 10:46
Operator : UM/SJ
Sample : H5970-17
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampled :
DA856

Manual Integrations
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Quant Time: Dec 20 14:43:54 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: BM008473.D

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

25.693min (-0.066) 5.16ng/ul m SJ 12/21/16

response 31614

Ion	Exp%	Act%
276.00	100	100
138.00	23.90	1.99#
277.00	24.50	2.86#
0.00	0.00	0.00

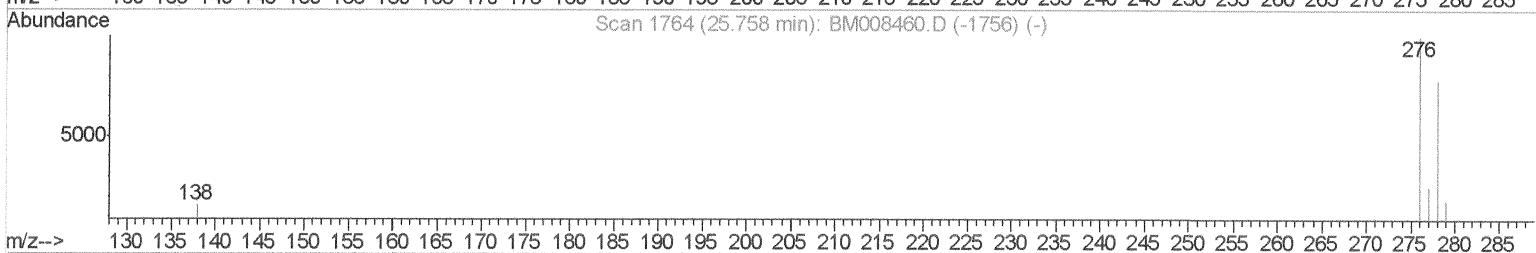
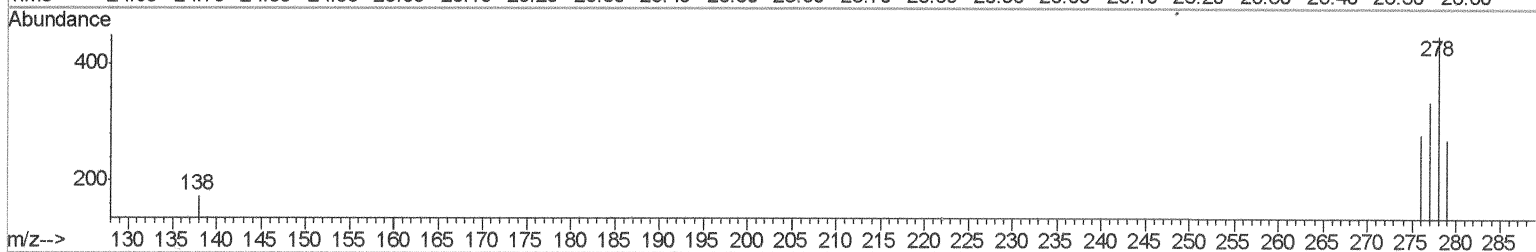
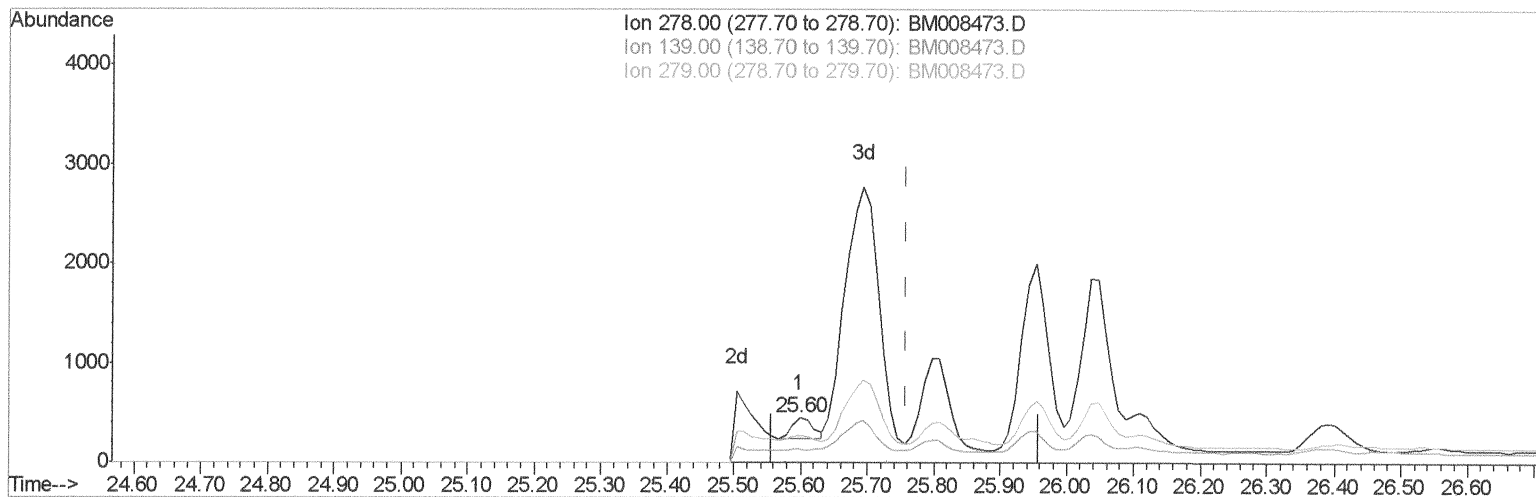
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008473.D
Acq On : 20 Dec 2016 10:46
Operator : UM/SJ
Sample : H5970-17
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA856

Manual Integrations
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Quant Time: Dec 20 14:43:54 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: BM008473.D

(25) Dibenzo(a,h)anthracene

25.599min (-0.160) 0.10ng/ul

response 466

Ion	Exp%	Act%
278.00	100	100
139.00	21.70	30.22#
279.00	32.40	60.44#
0.00	0.00	0.00

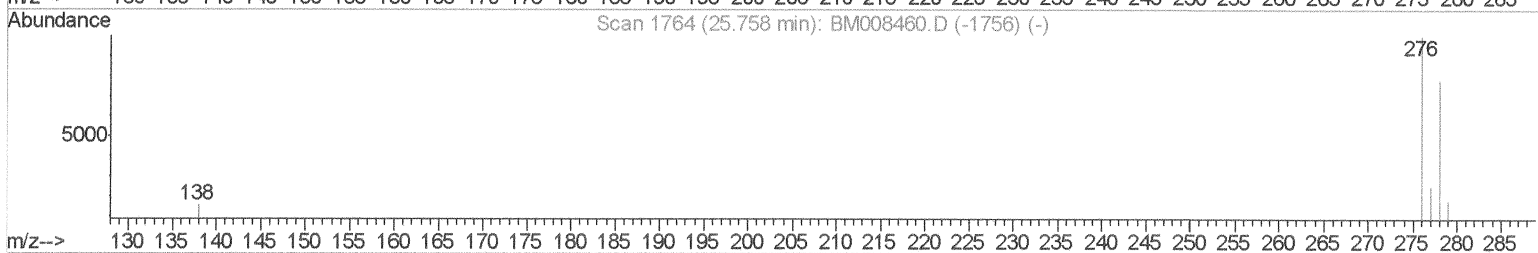
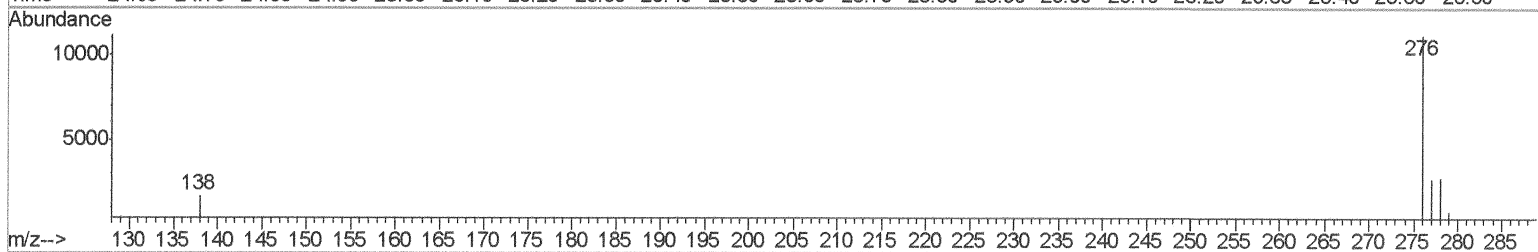
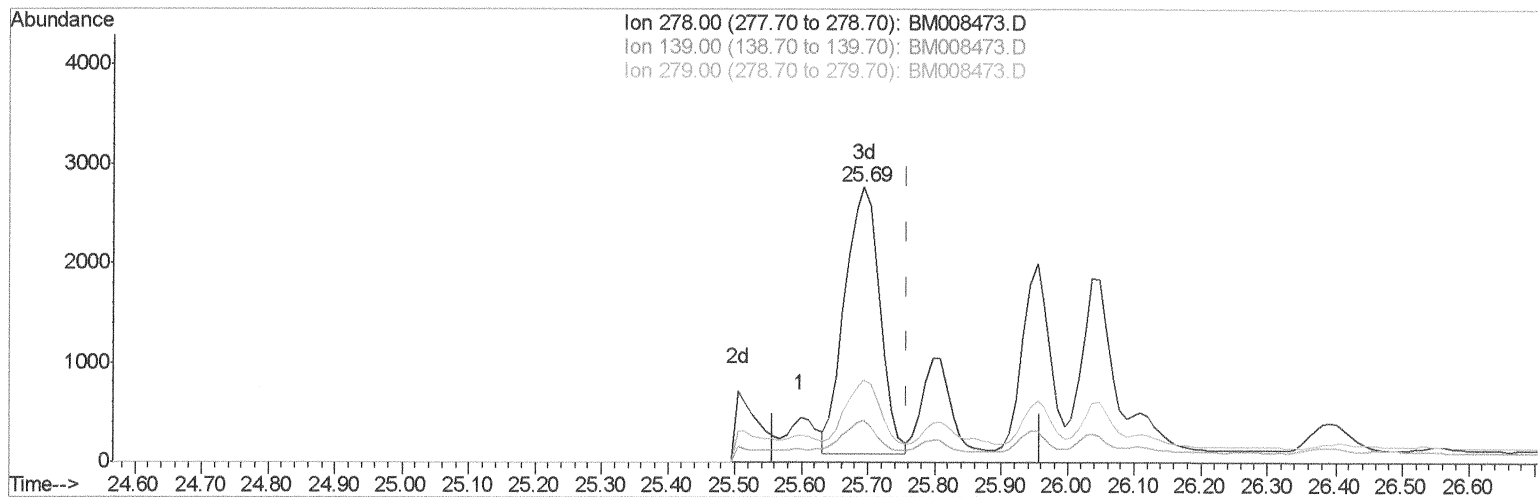
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008473.D
Acq On : 20 Dec 2016 10:46
Operator : UM/SJ
Sample : H5970-17
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA856

Manual Integrations
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Quant Time: Dec 20 14:43:54 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: BM008473.D

(25) Dibenzo(a,h)anthracene

25.693min (-0.066) 2.01ng/ul m

57 12/21/16

response 9827

Ion	Exp%	Act%
278.00	100	100
139.00	21.70	15.42#
279.00	32.40	30.01
0.00	0.00	0.00

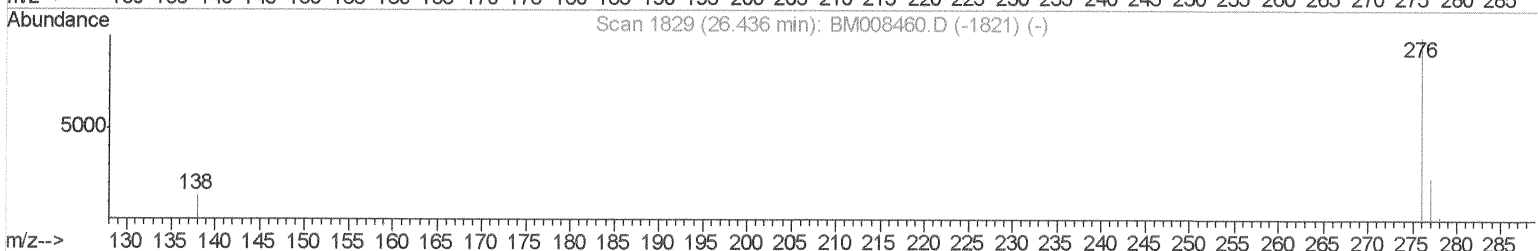
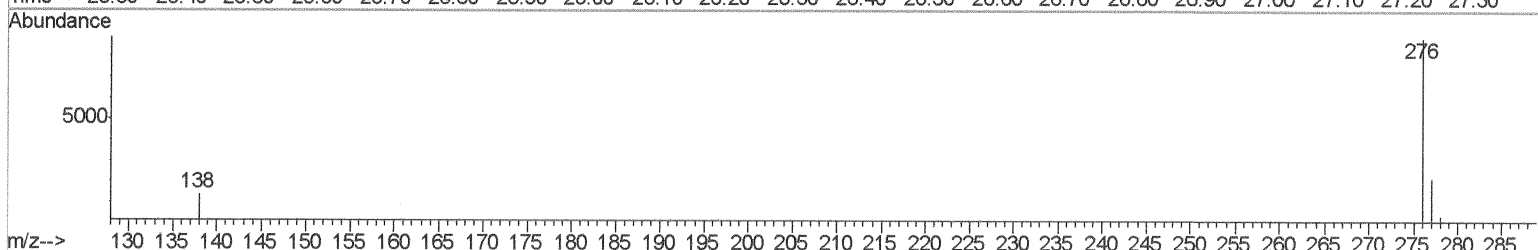
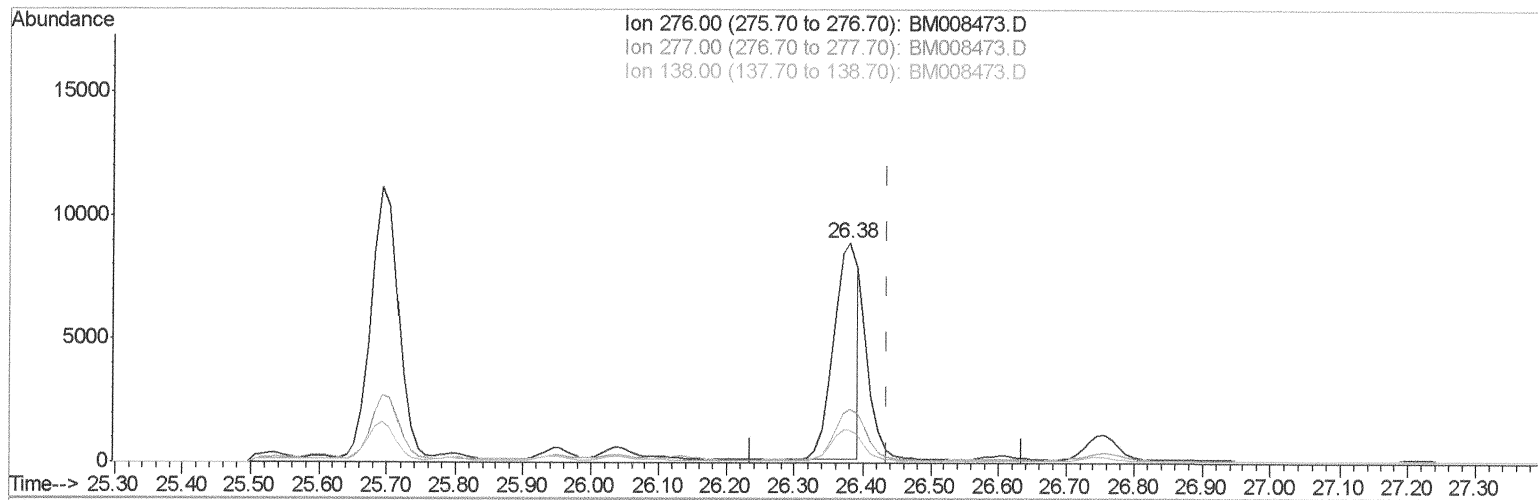
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008473.D
Acq On : 20 Dec 2016 10:46
Operator : UM/SJ
Sample : H5970-17
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA856

Manual Integrations
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Quant Time: Dec 20 14:43:54 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: BM008473.D

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

26.381min (-0.055) 4.26ng/ul

response 22397

Ion	Exp%	Act%
276.00	100	100
277.00	27.30	24.73
138.00	25.60	15.36#
0.00	0.00	0.00

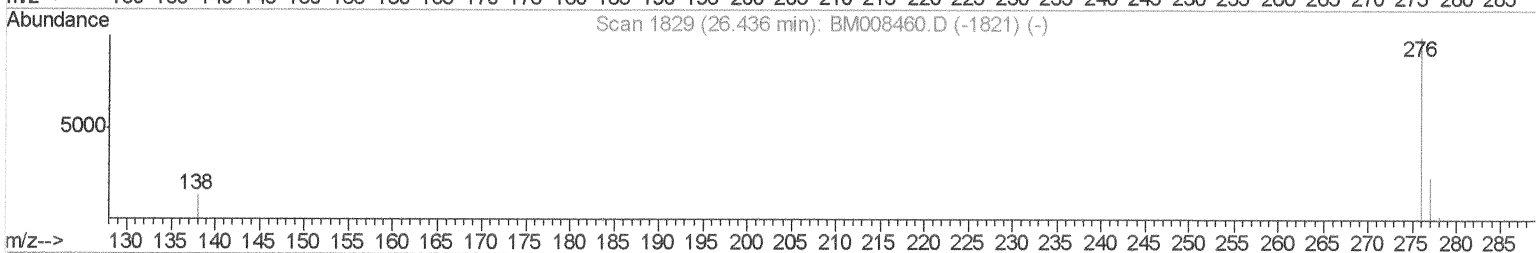
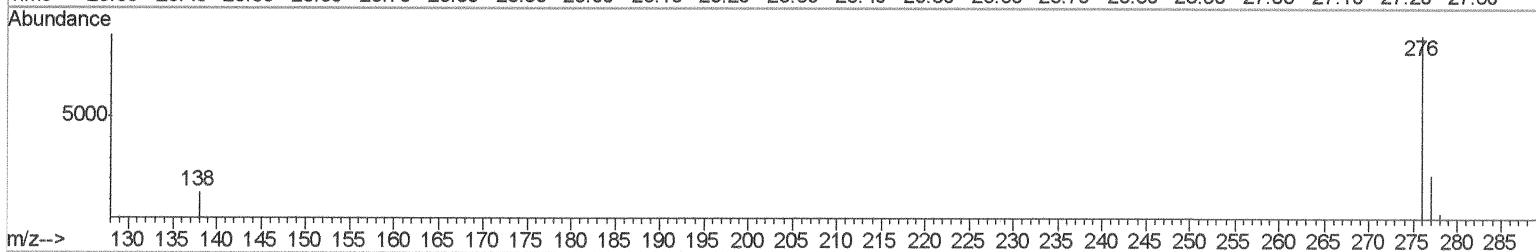
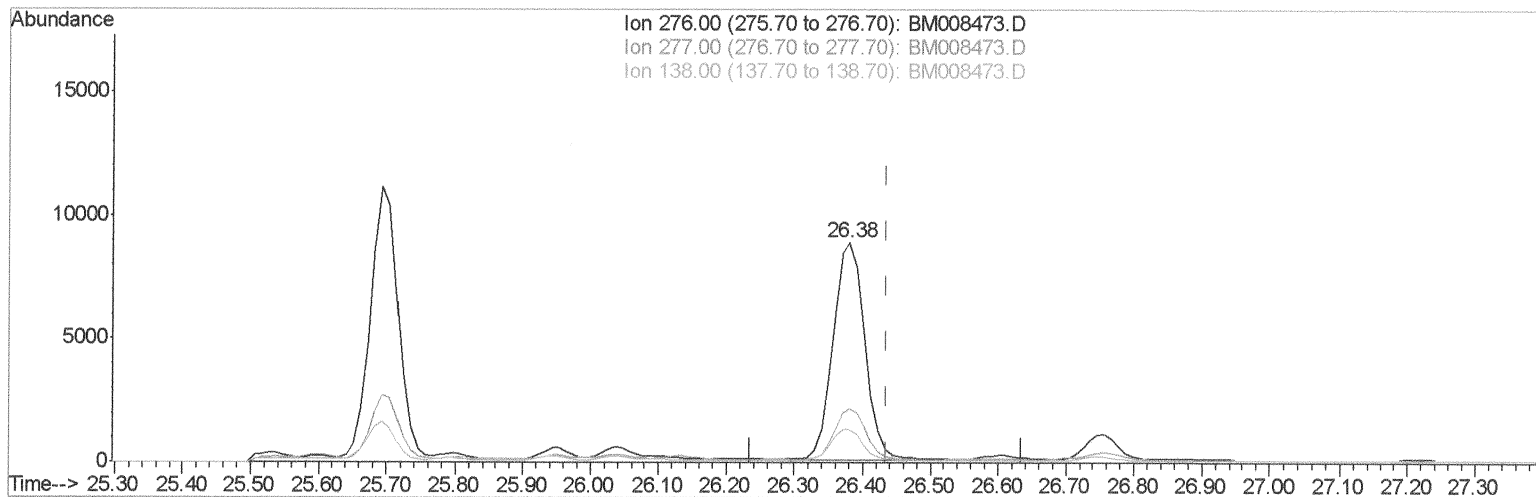
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
Data File : BM008473.D
Acq On : 20 Dec 2016 10:46
Operator : UM/SJ
Sample : H5970-17
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA856

Manual Integrations
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Quant Time: Dec 20 14:43:54 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: BM008473.D

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

26.381min (-0.055) 5.44ng/ul m SJ 12/21/16

response 28607

Ion	Exp%	Act%
276.00	100	100
277.00	27.30	24.73
138.00	25.60	15.36#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM121916\
 Data File : BM008473.D
 Acq On : 20 Dec 2016 10:46
 Operator : UM/SJ
 Sample : H5970-17
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA856

Manual Integrations
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Quant Time: Dec 20 14:46:35 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	440	0.40	ng/ul	-0.06
2) Naphthalene-d8	10.43	136	1505	0.40	ng/ul	-0.06
6) Acenaphthene-d10	14.30	164	939	0.40	ng/ul	-0.02
10) Phenanthrene-d10	17.04	188	1740m	0.40	ng/ul	-0.05
16) Chrysene-d12	21.25	240	1795	0.40	ng/ul	-0.02
20) Perylene-d12	23.47	264	1409m	0.40	ng/ul	-0.03

} SJ 12/21/16

System Monitoring Compounds

4) 2-Methylnaphthalene-d10	12.03	152	582	0.25	ng/ul	-0.07
14) Fluoranthene-d10	19.08	212	1293	0.27	ng/ul	-0.03

Target Compounds

					Qvalue
3) Naphthalene	10.48	128	2816	0.67	ng/ul 100
5) 2-Methylnaphthalene	12.10	142	2941	1.03	ng/ul 95
7) Acenaphthylene	14.01	152	4553	1.07	ng/ul 99
8) Acenaphthene	14.35	153	818	0.26	ng/ul 96
9) Fluorene	15.36	166	794	0.22	ng/ul# 93
12) Phenanthrene	17.09	178	15303m	2.88	ng/ul 96
13) Anthracene	17.18	178	6575	1.27	ng/ul 96
15) Fluoranthene	19.11	202	32056m	4.92	ng/ul 96
17) Pyrene	19.47	202	52803	7.61	ng/ul 96
18) Benzo(a)anthracene	21.23	228	38772	6.58	ng/ul 98
19) Chrysene	21.28	228	36476	5.65	ng/ul 99
21) Benzo(b)fluoranthene	22.81	252	80085m	14.43	ng/ul
22) Benzo(k)fluoranthene	22.84	252	27042m	5.00	ng/ul
23) Benzo(a)pyrene	23.37	252	40911m	7.95	ng/ul
24) Indeno(1,2,3-cd)pyrene	25.69	276	31614m	5.16	ng/ul
25) Dibenzo(a,h)anthracene	25.69	278	9827m	2.01	ng/ul
26) Benzo(g,h,i)perylene	26.38	276	28607m	5.44	ng/ul

} SJ 12/21/16

} SJ 12/21/16

} SJ 12/21/16

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