

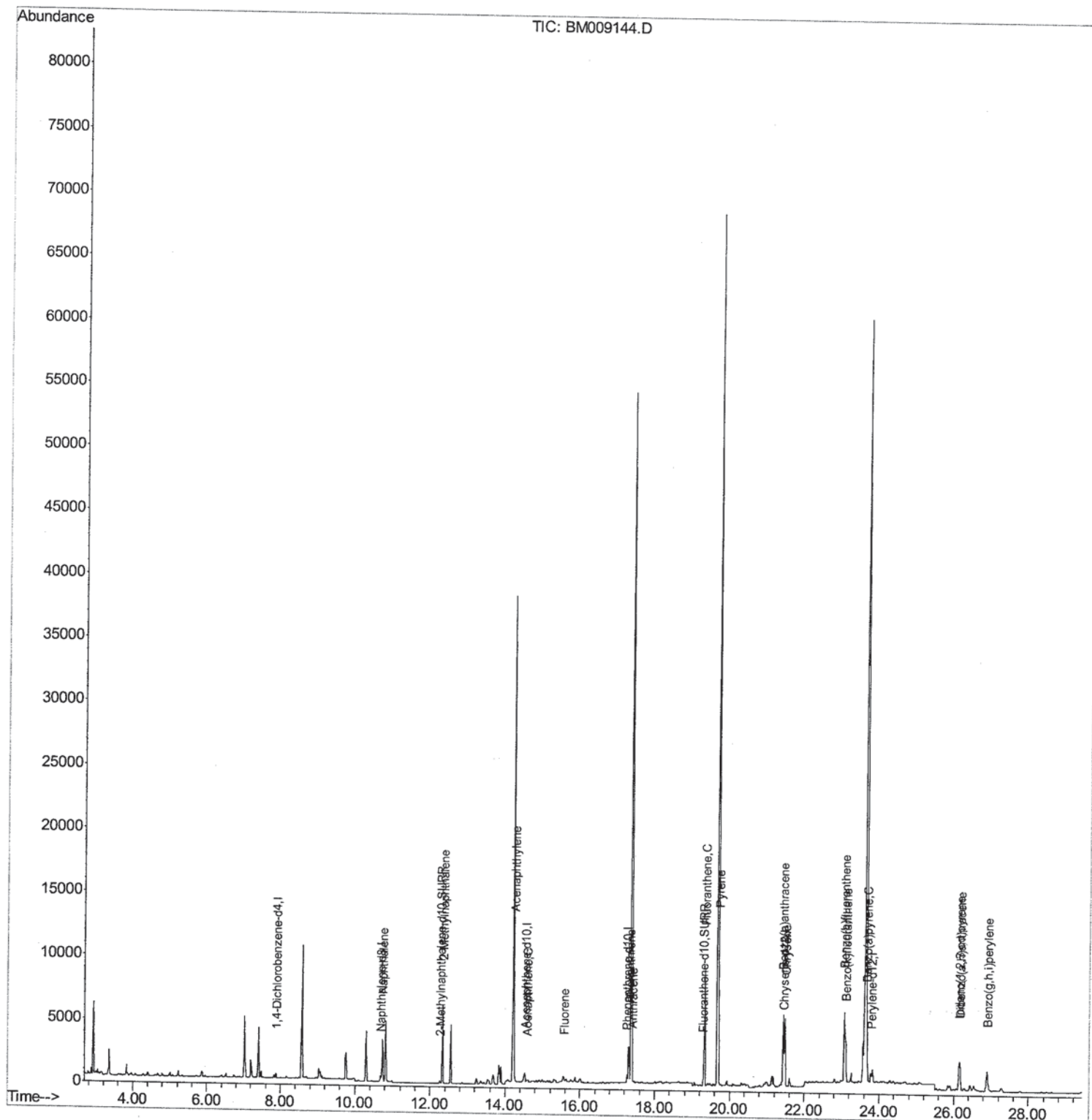
```
Data Path : Z:\HPCHEM1\BNA_M\Data\BM030917\  
Data File : BM009144.D  
Acq On    : 09 Mar 2017  14:21  
Operator   : SJ/MA  
Sample     : I2062-20  
Misc      :  
ALS Vial   : 8      Sample Multiplier: 1
```

Instrument :
BNA_M
ClientSampleId :
C0AK6

Manual Integrations
APPROVED

mohammad
3/10/2017 6:00:56 PM

Quant Time: Mar 09 15:39:34 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 09 15:10:54 2017
Response via : Initial Calibration



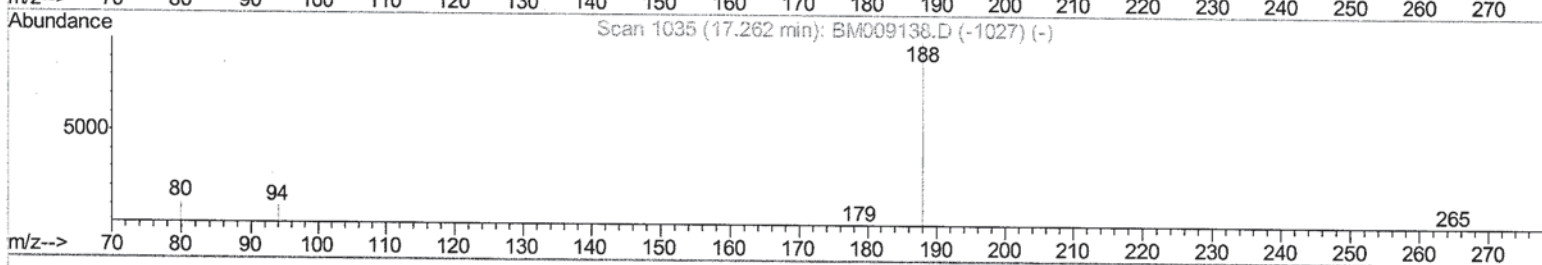
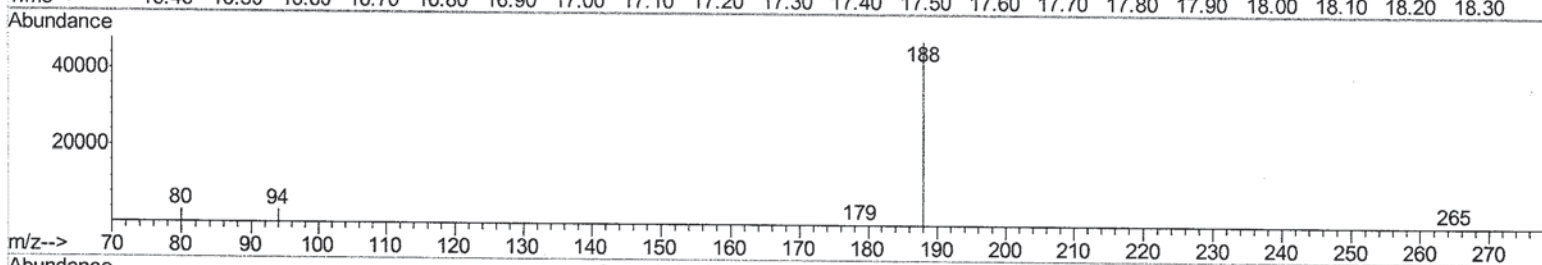
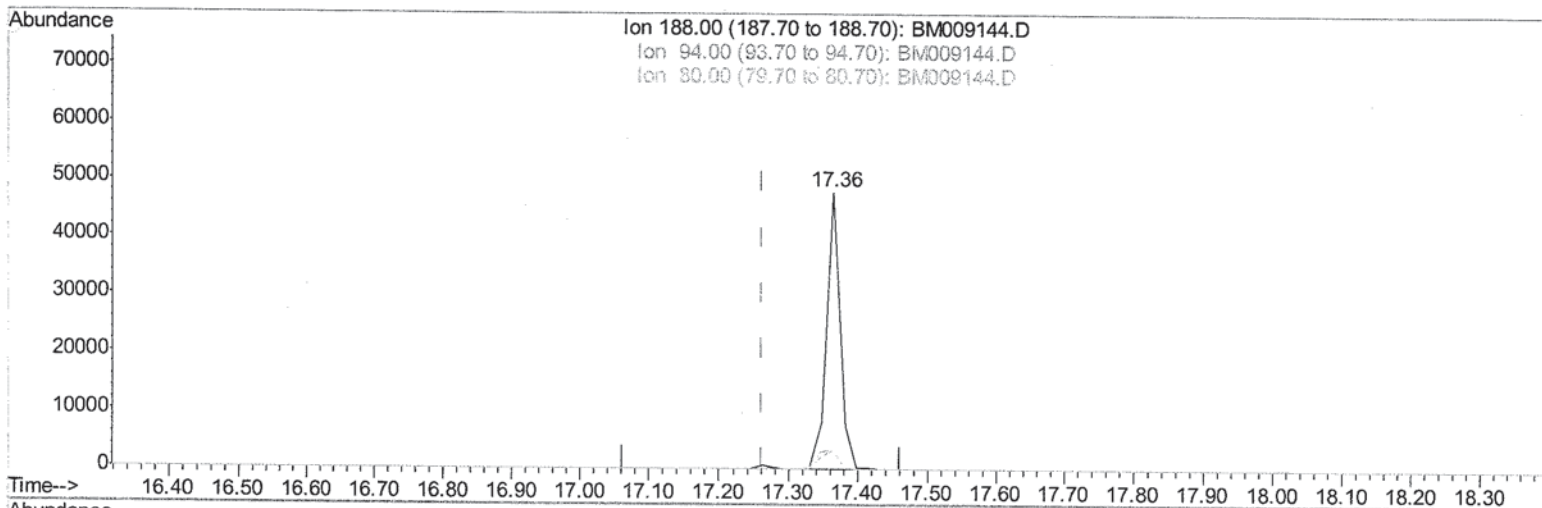
Data Path : Z:\HPCHEM1\BNA_M\Data\BM030917\
Data File : BM009144.D
Acq On : 09 Mar 2017 14:21
Operator : SJ/MA
Sample : I2062-20
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AK6

Manual Integrations
APPROVED

mohammad
3/10/2017 6:00:56 PM

Quant Time: Mar 09 15:35:10 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 09 15:10:54 2017
Response via : Initial Calibration



TIC: BM009144.D

(10) Phenanthrene-d10 (I)

17.365min (+0.103) 0.40ng/ul

response 65404

Ion	Exp%	Act%
188.00	100	100
94.00	11.00	6.65#
80.00	11.80	6.64#
0.00	0.00	0.00

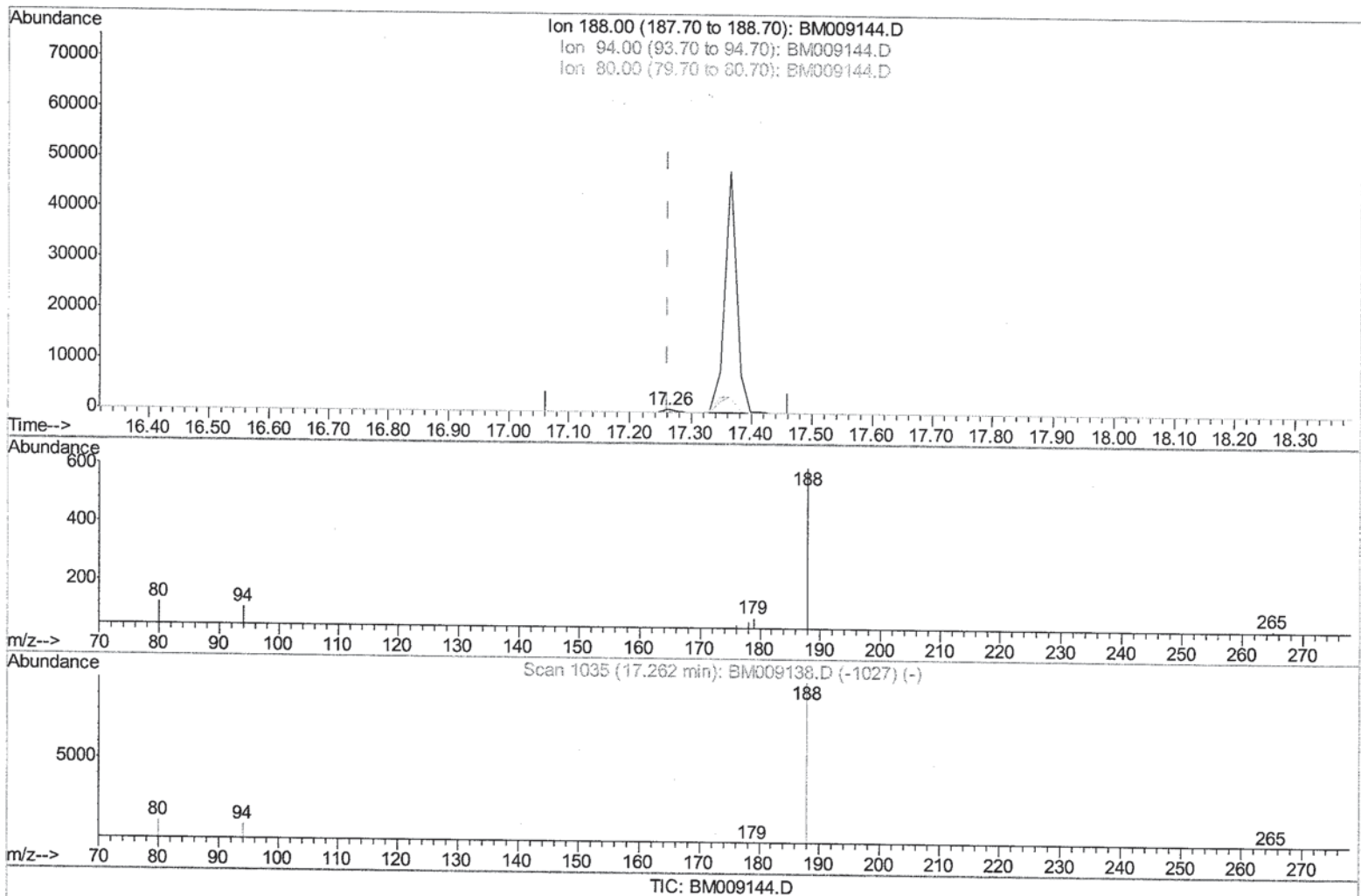
Data Path : Z:\HPCHEM1\BNA_M\Data\BM030917\
Data File : BM009144.D
Acq On : 09 Mar 2017 14:21
Operator : SJ/MA
Sample : I2062-20
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AK6

Manual Integrations
APPROVED

mohammad
3/10/2017 6:00:56 PM

Quant Time: Mar 09 15:35:10 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 09 15:10:54 2017
Response via : Initial Calibration



(10) Phenanthrene-d10 (I)

17.262min (-0.000) 0.40ng/ul m

53 3/13/17

response 889

Ion	Exp%	Act%
188.00	100	100
94.00	11.00	17.80#
80.00	11.80	20.30#
0.00	0.00	0.00

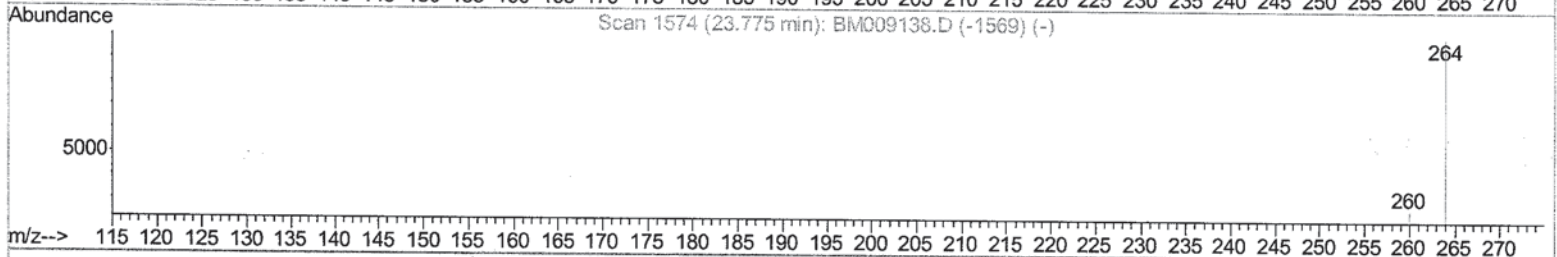
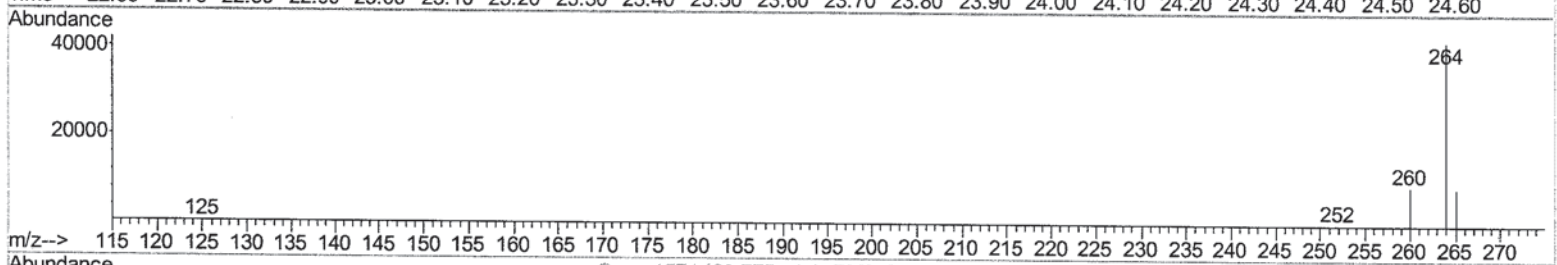
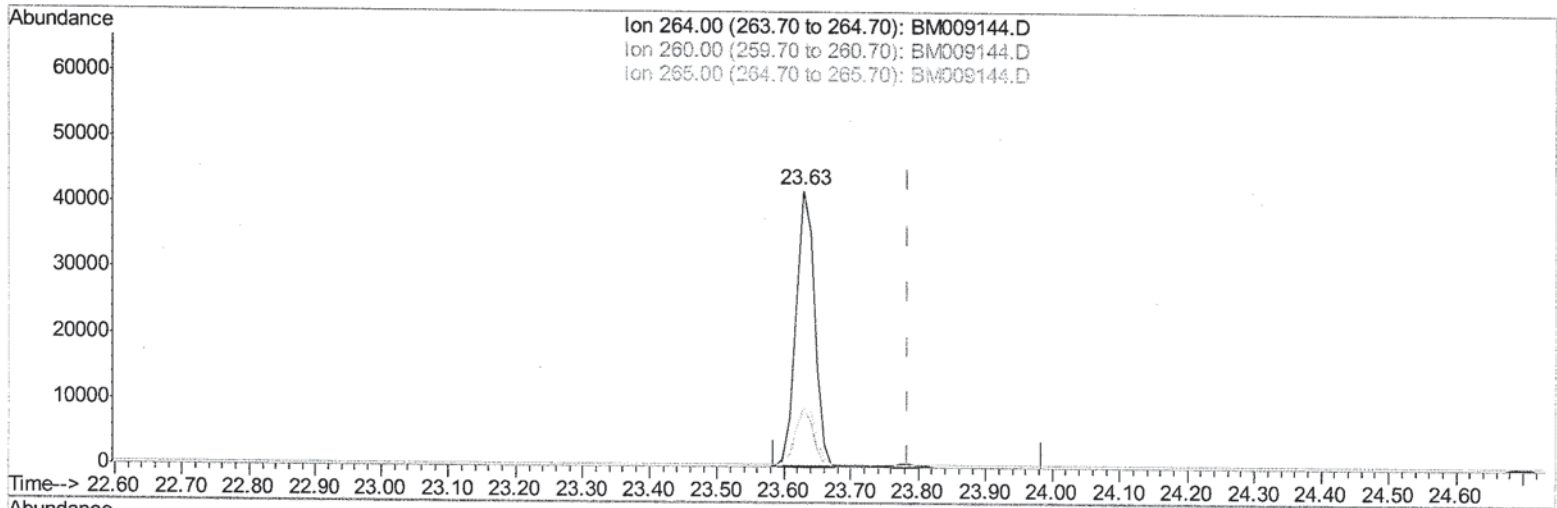
Data Path : Z:\HPCHEM1\BNA_M\Data\BM030917\
Data File : BM009144.D
Acq On : 09 Mar 2017 14:21
Operator : SJ/MA
Sample : I2062-20
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampled :
C0AK6

Manual Integrations
APPROVED

mohammad
3/10/2017 6:00:56 PM

Quant Time: Mar 09 15:36:05 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 09 15:10:54 2017
Response via : Initial Calibration



TIC: BM009144.D

(20) Perylene-d12 (I)

23.628min (-0.156) 0.40ng/ul

response 80362

Ion	Exp%	Act%
264.00	100	100
260.00	30.10	21.46#
265.00	103.50	20.98#
0.00	0.00	0.00

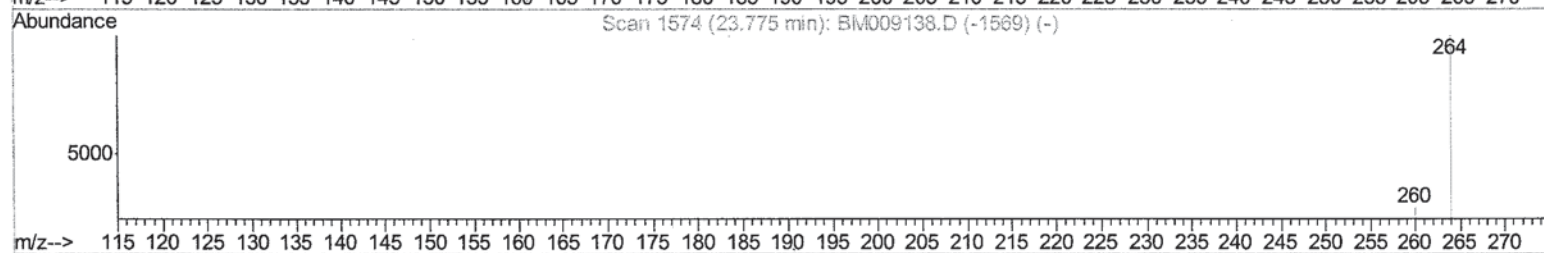
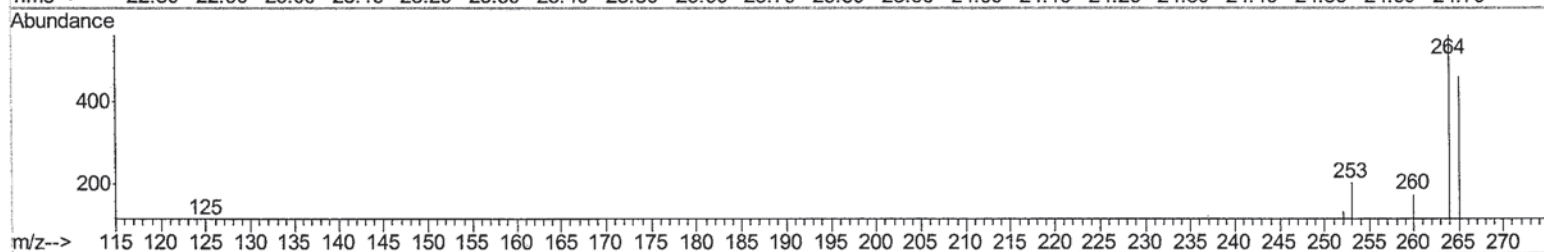
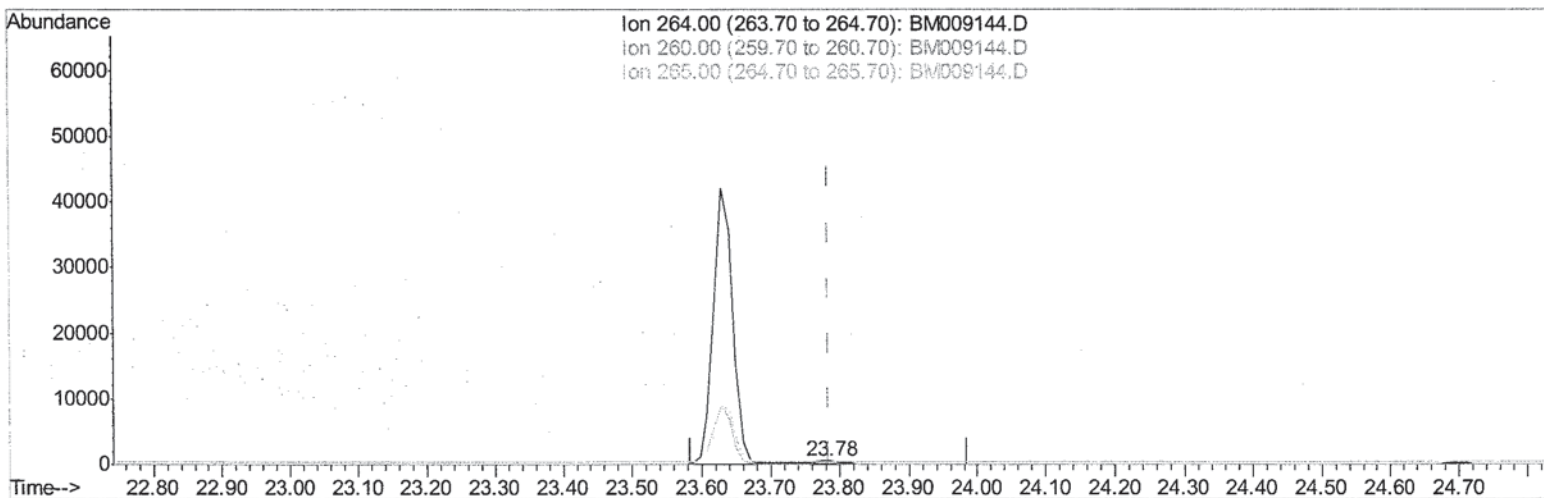
Data Path : Z:\HPCHEM1\BNA_M\Data\BM030917\
Data File : BM009144.D
Acq On : 09 Mar 2017 14:21
Operator : SJ/MA
Sample : I2062-20
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AK6

Manual Integrations
APPROVED

mohammad
3/10/2017 6:00:56 PM

Quant Time: Mar 09 15:36:05 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 09 15:10:54 2017
Response via : Initial Calibration



TIC: BM009144.D

(20) Perylene-d12 (I)

23.785min (-0.000) 0.40ng/ul m

SJ 3/13/17

response 914

Ion	Exp%	Act%
264.00	100	100
260.00	30.10	31.25
265.00	103.50	82.14#
0.00	0.00	0.00

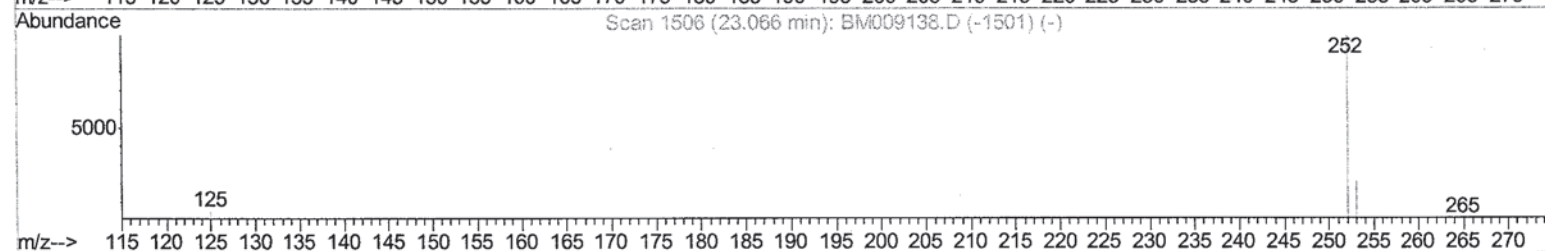
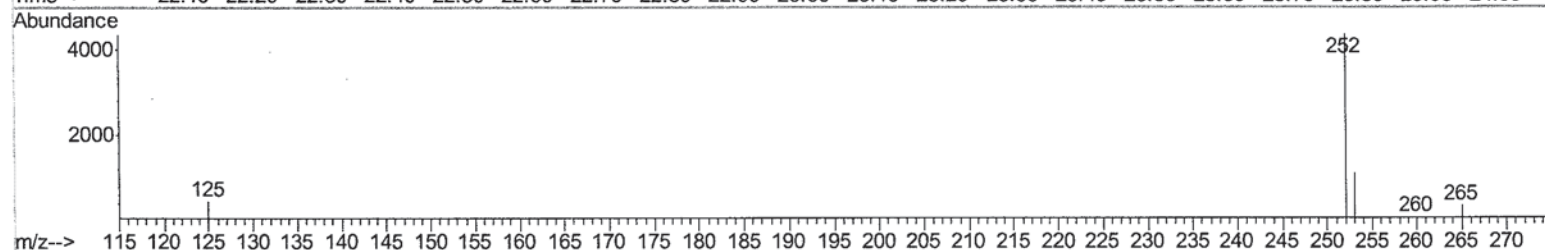
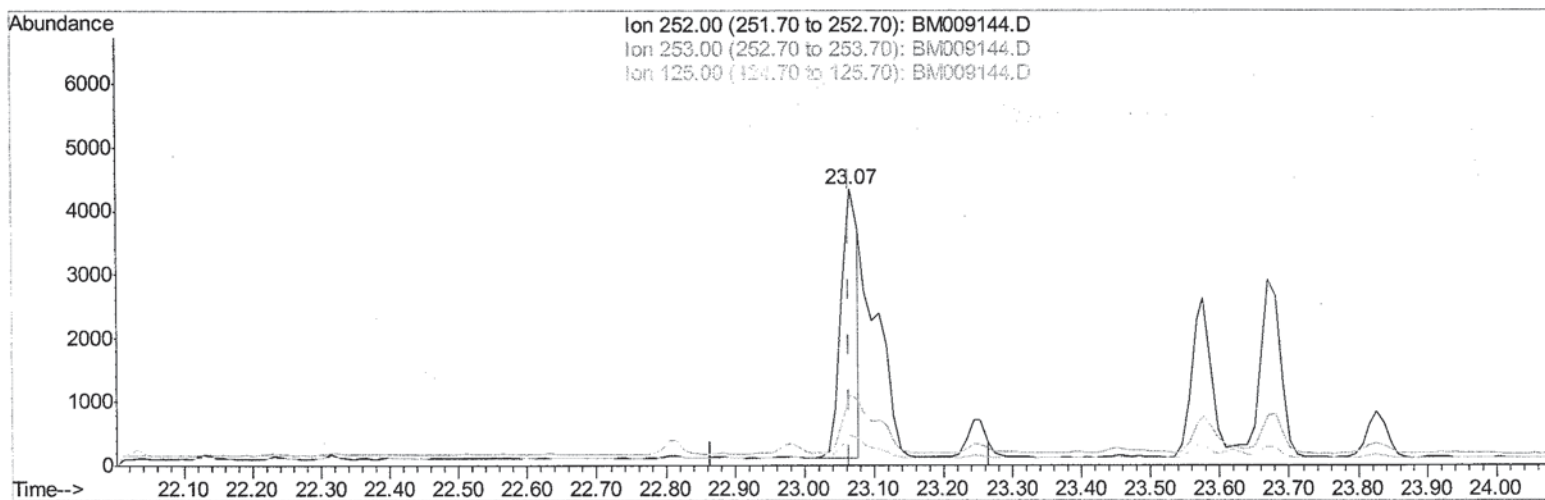
Data Path : Z:\HPCHEM1\BNA_M\Data\BM030917\
Data File : BM009144.D
Acq On : 09 Mar 2017 14:21
Operator : SJ/MA
Sample : I2062-20
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AK6

Manual Integrations
APPROVED

mohammad
3/10/2017 6:00:56 PM

Quant Time: Mar 09 15:36:42 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 09 15:10:54 2017
Response via : Initial Calibration



TIC: BM009144.D

(21) Benzo(b)fluoranthene

23.066min (-0.000) 1.98ng/ul

response 7127

Ion	Exp%	Act%
252.00	100	100
253.00	32.10	25.68
125.00	17.50	10.70
0.00	0.00	0.00

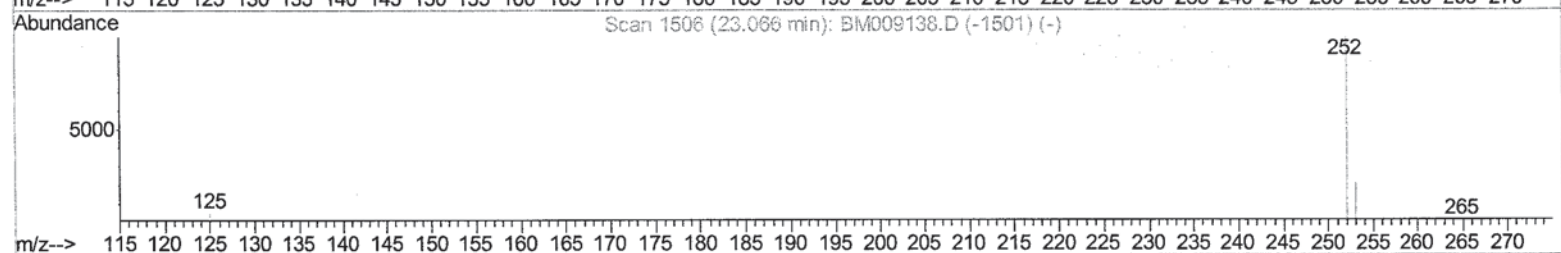
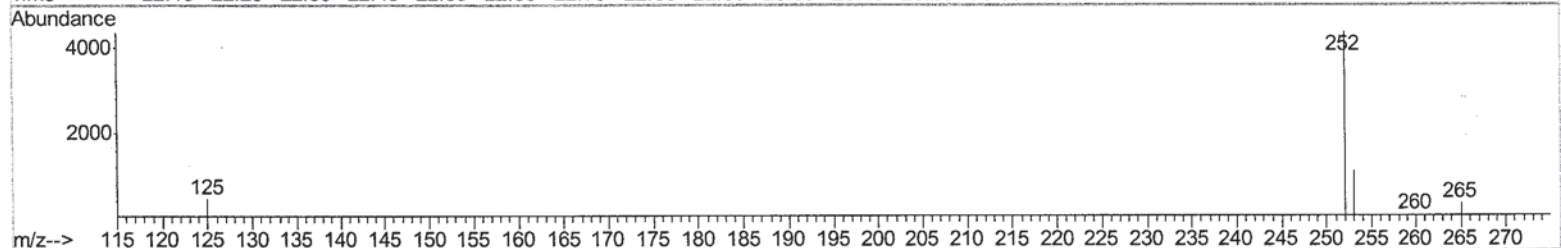
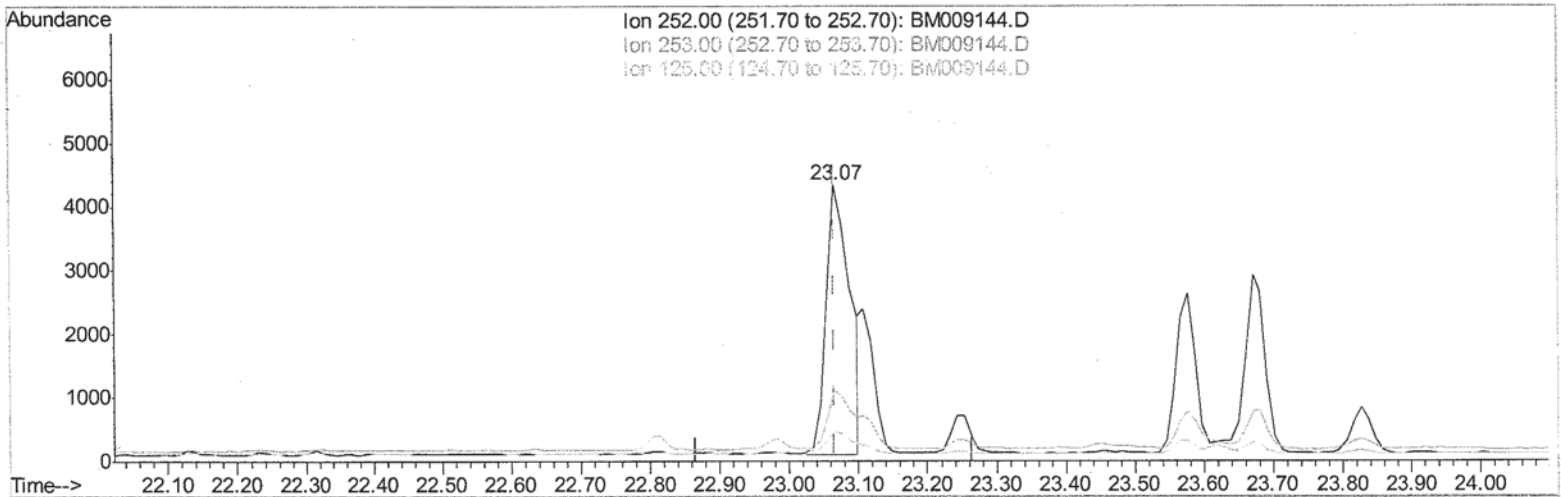
Data Path : Z:\HPCHEM1\BNA_M\Data\BM030917\
 Data File : BM009144.D
 Acq On : 09 Mar 2017 14:21
 Operator : SJ/MA
 Sample : I2062-20
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AK6

Manual Integrations
 APPROVED

mohammad
 3/10/2017 6:00:56 PM

Quant Time: Mar 09 15:36:42 2017
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 09 15:10:54 2017
 Response via : Initial Calibration



TIC: BM009144.D

(21) Benzo(b)fluoranthene

23.066min (-0.000) 2.84ng/ul m

30 3/13/17

response 10188

Ion	Exp%	Act%
252.00	100	100
253.00	32.10	25.68
125.00	17.50	10.70
0.00	0.00	0.00

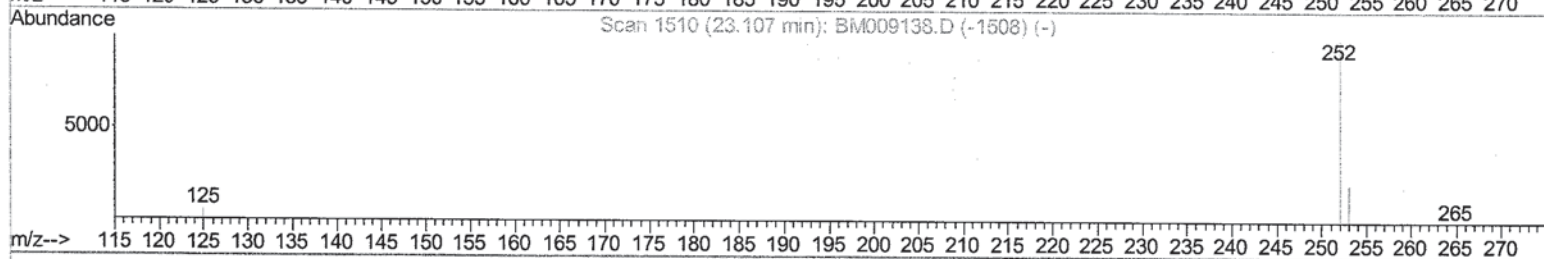
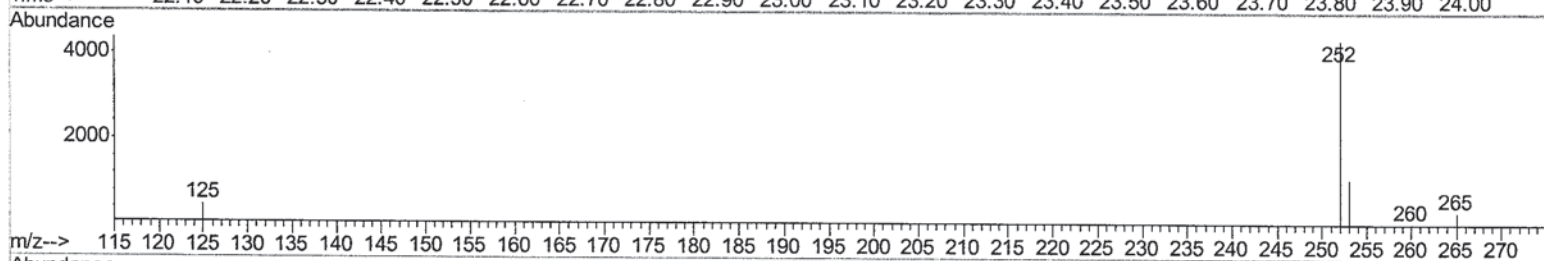
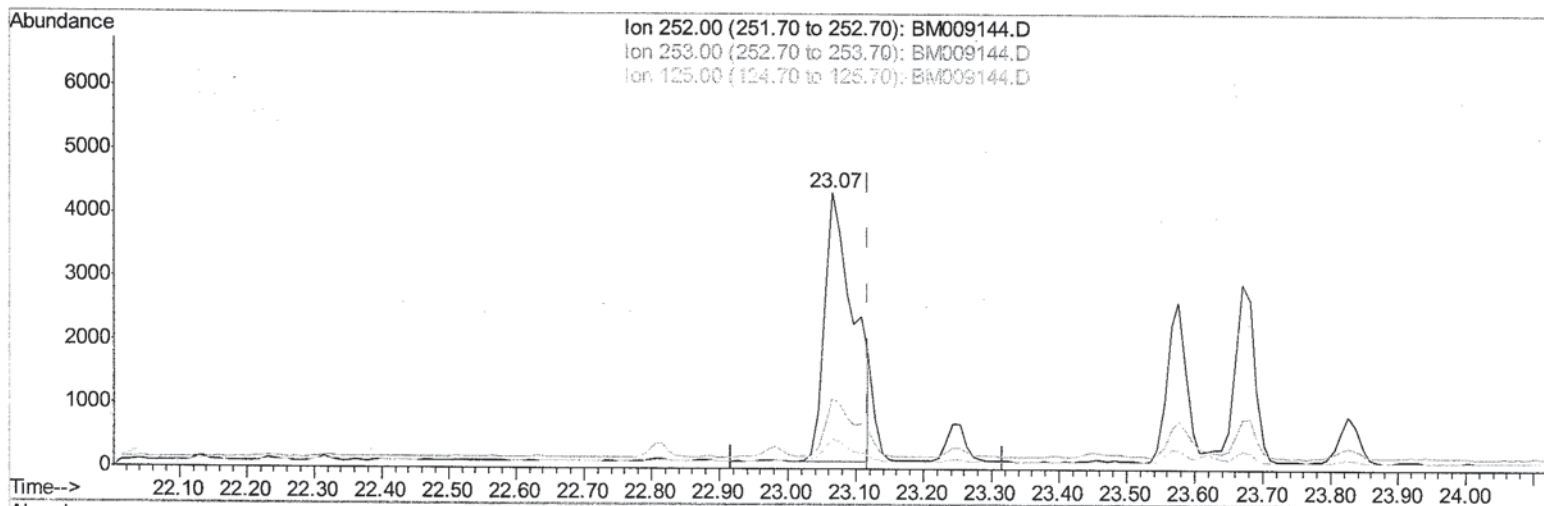
Data Path : Z:\HPCHEM1\BNA_M\Data\BM030917\
Data File : BM009144.D
Acq On : 09 Mar 2017 14:21
Operator : SJ/MA
Sample : I2062-20
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AK6

Manual Integrations
APPROVED

mohammad
3/10/2017 6:00:56 PM

Quant Time: Mar 09 15:36:42 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 09 15:10:54 2017
Response via : Initial Calibration



TIC: BM009144.D

(22) Benzo(k)fluoranthene

23.066min (-0.052) 3.97ng/ul

response 12616

Ion	Exp%	Act%
252.00	100	100
253.00	30.60	25.68
125.00	17.10	10.70#
0.00	0.00	0.00

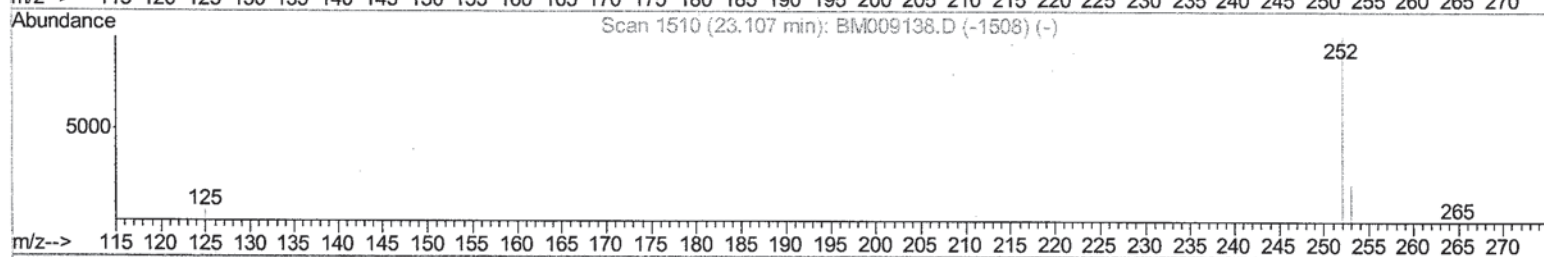
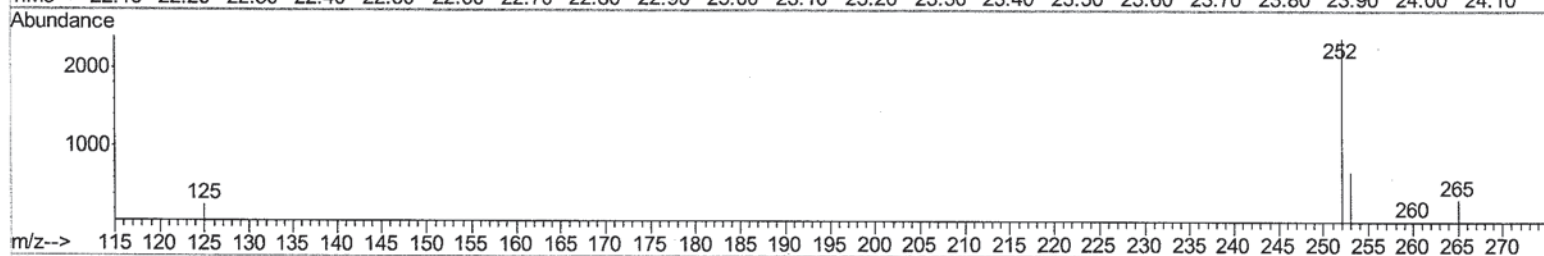
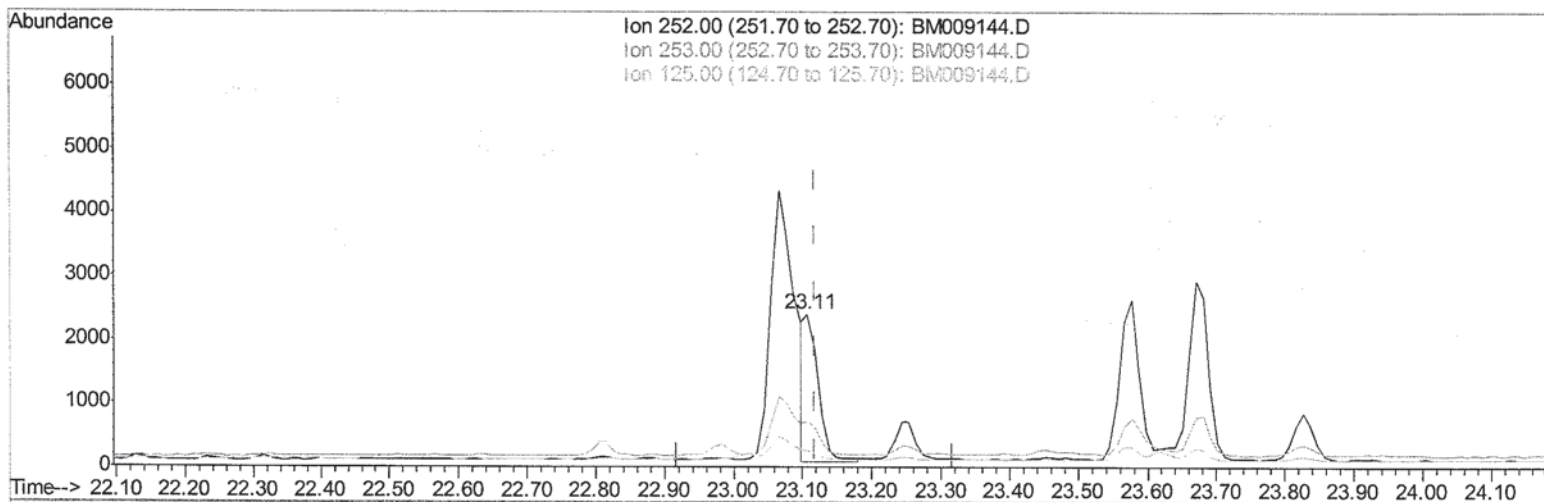
Data Path : Z:\HPCHEM1\BNA_M\Data\BM030917\
Data File : BM009144.D
Acq On : 09 Mar 2017 14:21
Operator : SJ/MA
Sample : I2062-20
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AK6

Manual Integrations
APPROVED

mohammad
3/10/2017 6:00:56 PM

Quant Time: Mar 09 15:36:42 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 09 15:10:54 2017
Response via : Initial Calibration



TIC: BM009144.D

(22) Benzo(k)fluoranthene

23.107min (-0.010) 1.03ng/ul m

SJ 3/13/17

response 3255

Ion	Exp%	Act%
252.00	100	100
253.00	30.60	29.50
125.00	17.10	10.91#
0.00	0.00	0.00

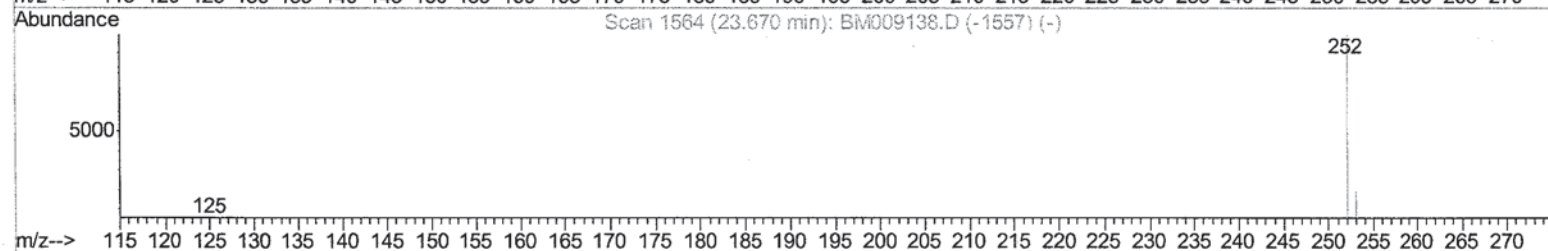
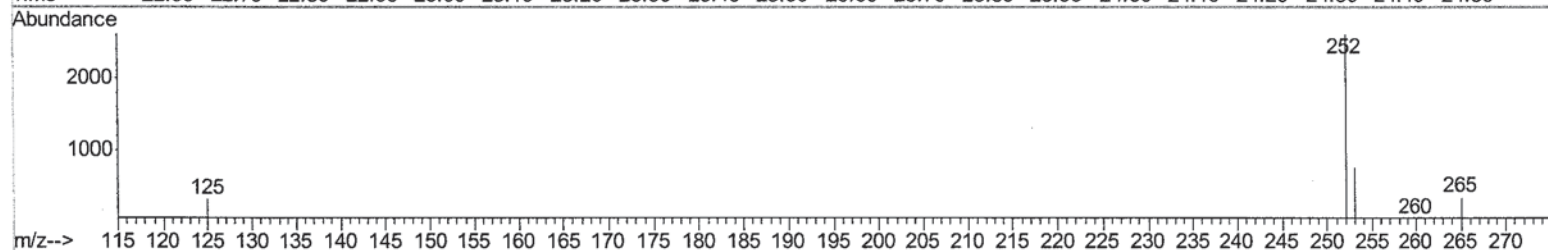
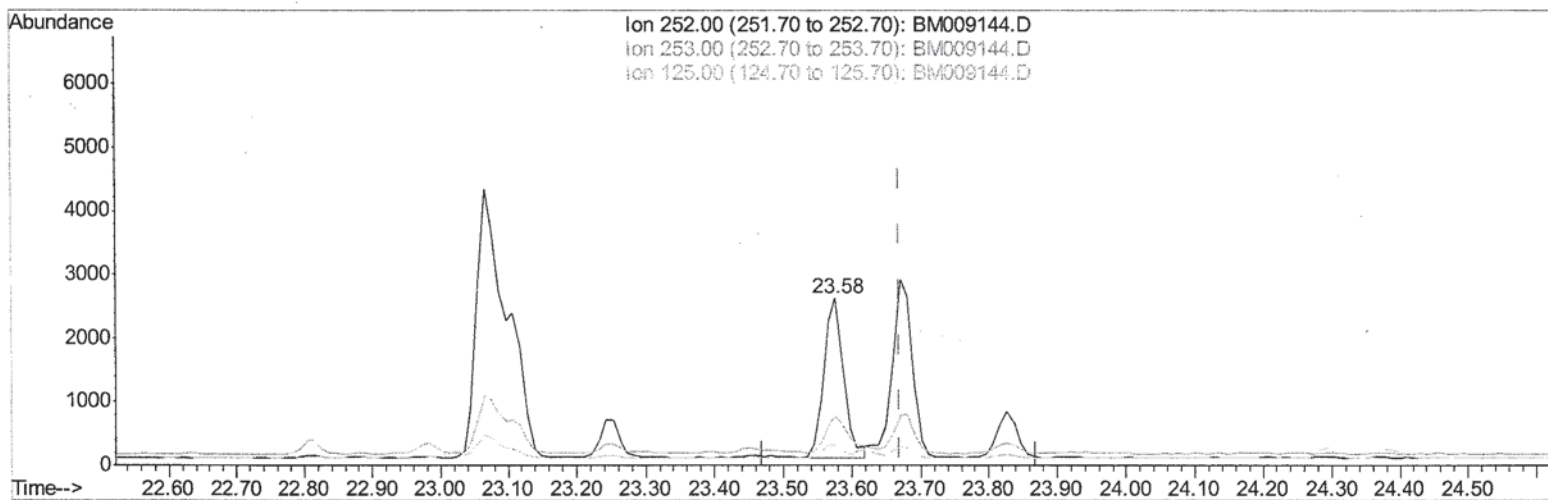
Data Path : Z:\HPCHEM1\BNA_M\Data\BM030917\
Data File : BM009144.D
Acq On : 09 Mar 2017 14:21
Operator : SJ/MA
Sample : I2062-20
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AK6

Manual Integrations
APPROVED

mohammad
3/10/2017 6:00:56 PM

Quant Time: Mar 09 15:36:42 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 09 15:10:54 2017
Response via : Initial Calibration



TIC: BM009144.D

(23) Benzo(a)pyrene (C)

23.576min (-0.094) 1.54ng/ul

response 4973

Ion	Exp%	Act%
252.00	100	100
253.00	35.60	29.18
125.00	22.60	11.99#
0.00	0.00	0.00

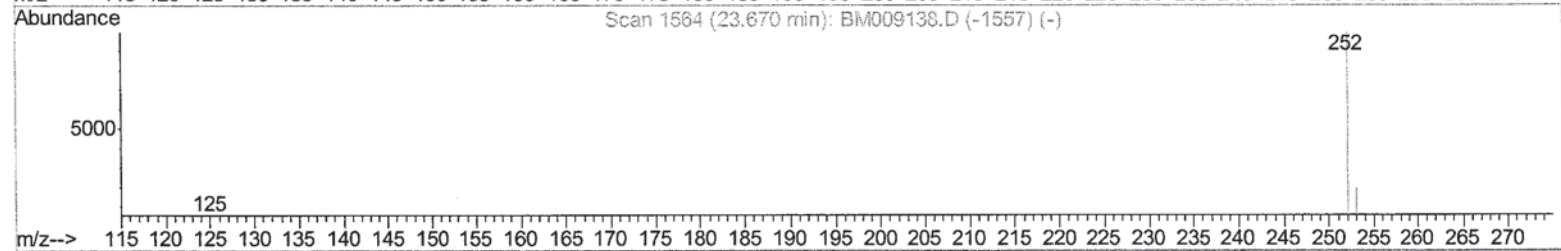
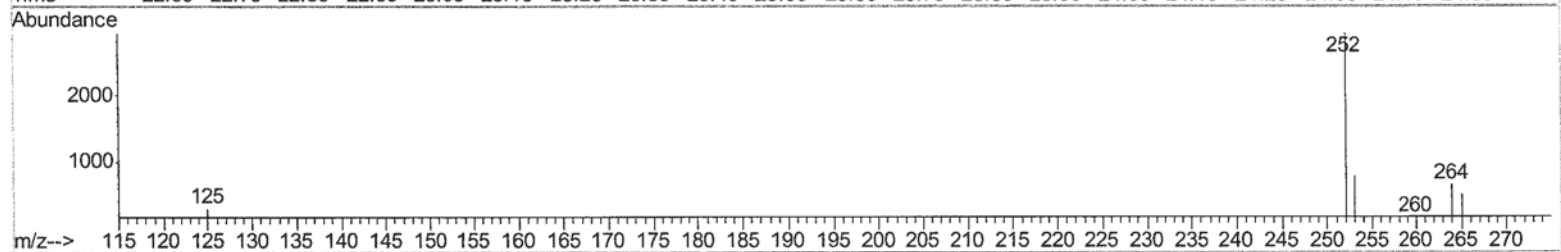
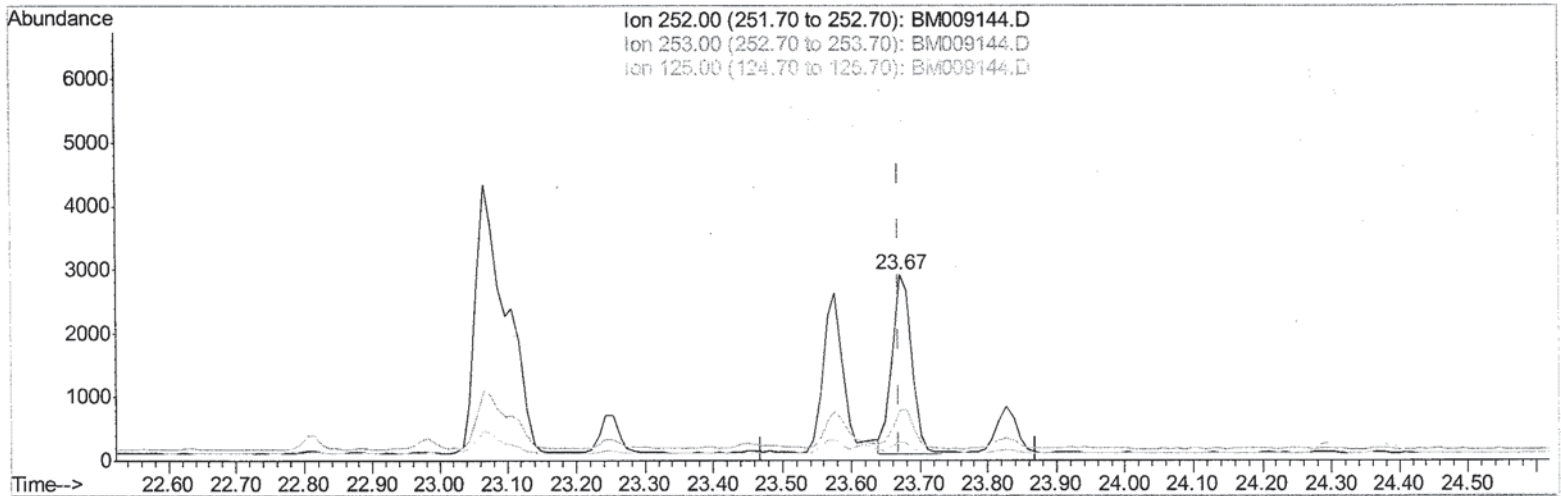
Data Path : Z:\HPCHEM1\BNA_M\Data\BM030917\
Data File : BM009144.D
Acq On : 09 Mar 2017 14:21
Operator : SJ/MA
Sample : I2062-20
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AK6

Manual Integrations
APPROVED

mohammad
3/10/2017 6:00:56 PM

Quant Time: Mar 09 15:36:42 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 09 15:10:54 2017
Response via : Initial Calibration



TIC: BM009144.D

(23) Benzo(a)pyrene (C)

23.670min (-0.000) 1.75ng/ul m

SJ 3/13/17

response 5661

Ion	Exp%	Act%
252.00	100	100
253.00	35.60	27.06#
125.00	22.60	10.21#
0.00	0.00	0.00

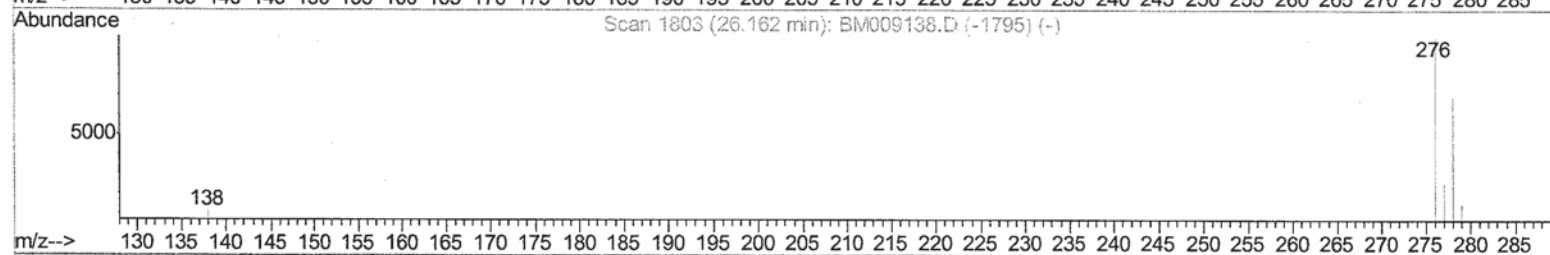
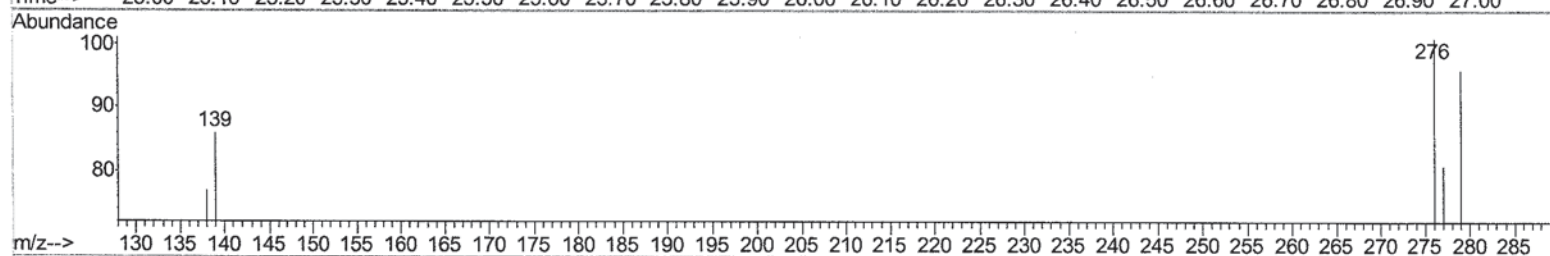
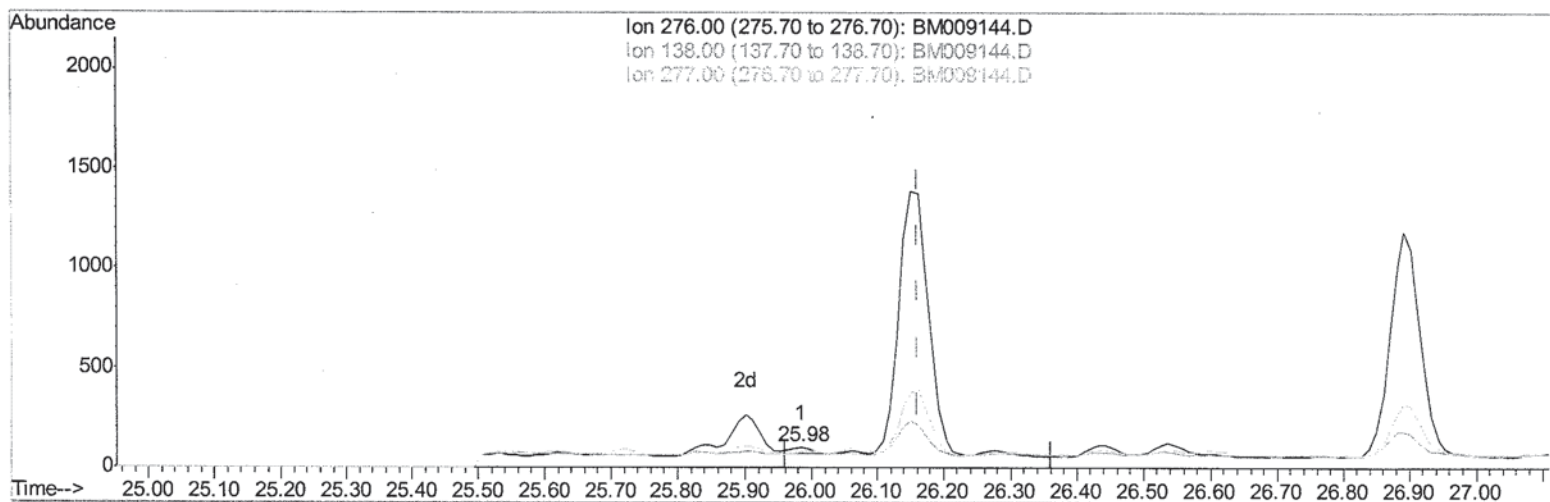
Data Path : Z:\HPCHEM1\BNA_M\Data\BM030917\
Data File : BM009144.D
Acq On : 09 Mar 2017 14:21
Operator : SJ/MA
Sample : I2062-20
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AK6

Manual Integrations
APPROVED

mohammad
3/10/2017 6:00:56 PM

Quant Time: Mar 09 15:36:42 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 09 15:10:54 2017
Response via : Initial Calibration



TIC: BM009144.D

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

25.984min (-0.177) 0.02ng/ul

response 80

Ion	Exp%	Act%
276.00	100	100
138.00	23.90	0.00#
277.00	24.50	53.75#
0.00	0.00	0.00

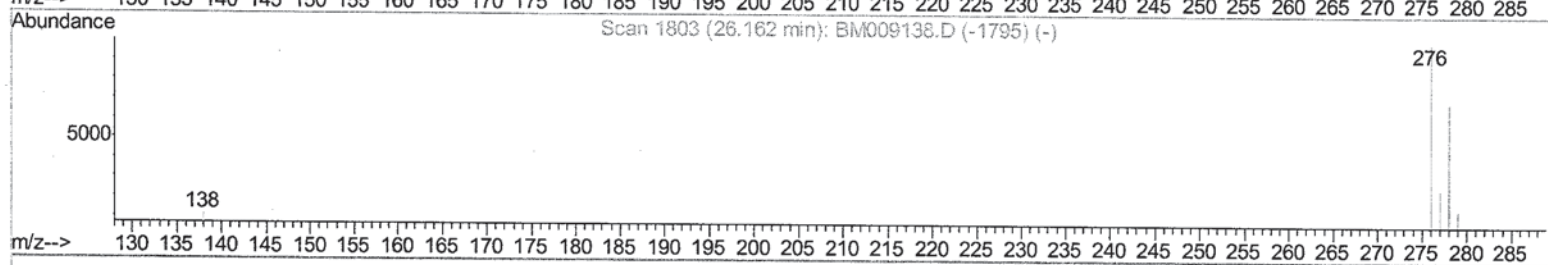
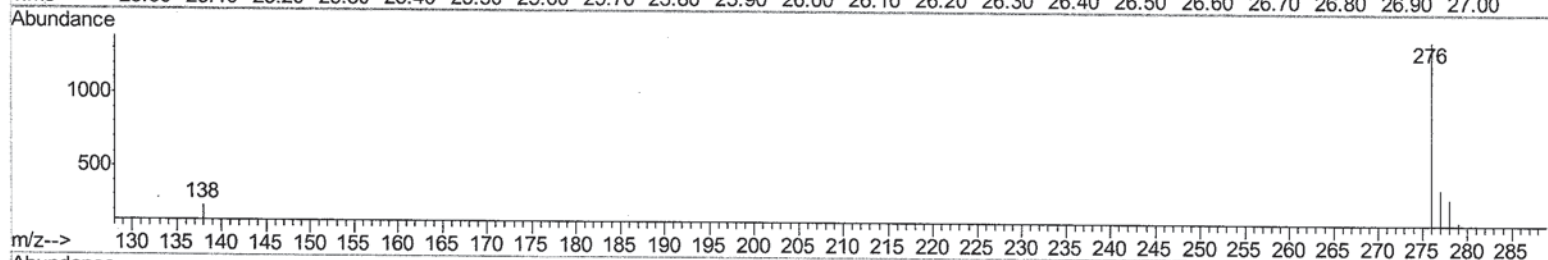
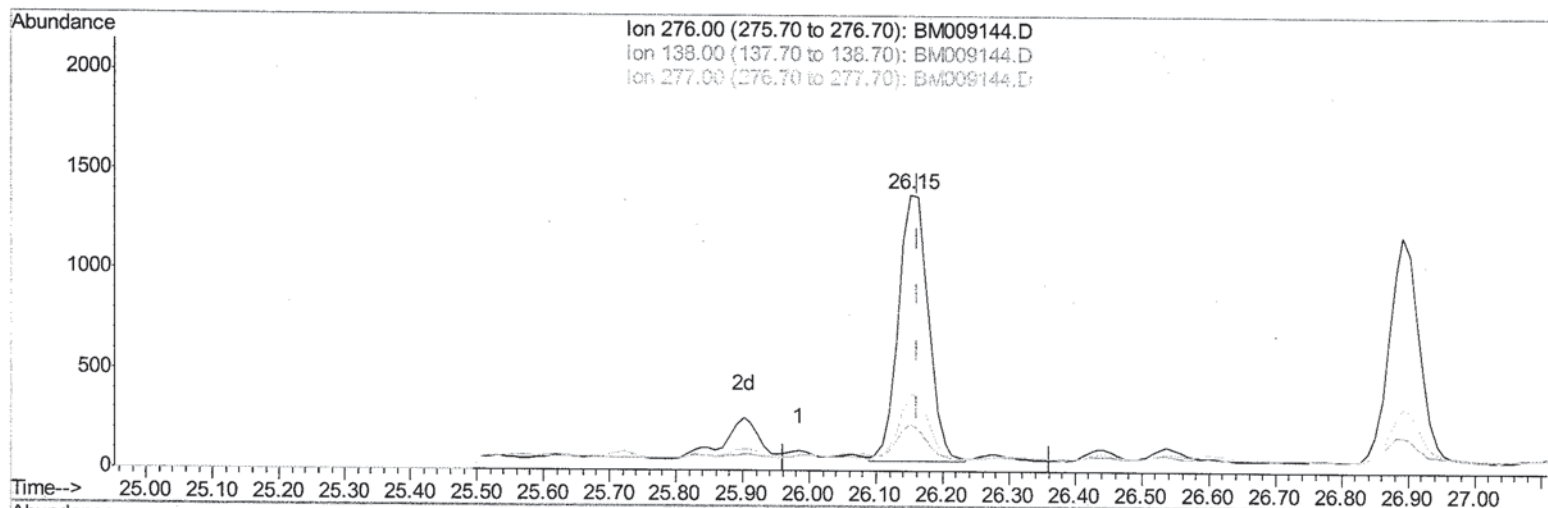
Data Path : Z:\HPCHEM1\BNA_M\Data\BM030917\
Data File : BM009144.D
Acq On : 09 Mar 2017 14:21
Operator : SJ/MA
Sample : I2062-20
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AK6

Manual Integrations
APPROVED

mohammad
3/10/2017 6:00:56 PM

Quant Time: Mar 09 15:36:42 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 09 15:10:54 2017
Response via : Initial Calibration



TIC: BM009144.D

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

26.151min (-0.010) 1.01ng/ul m

SJ 3/13/17

response 4133

Ion	Exp%	Act%
276.00	100	100
138.00	23.90	0.00#
277.00	24.50	1.04#
0.00	0.00	0.00

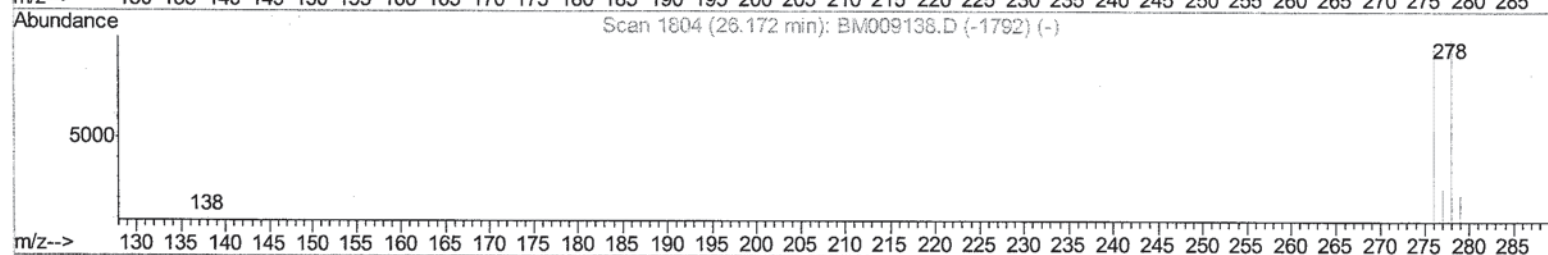
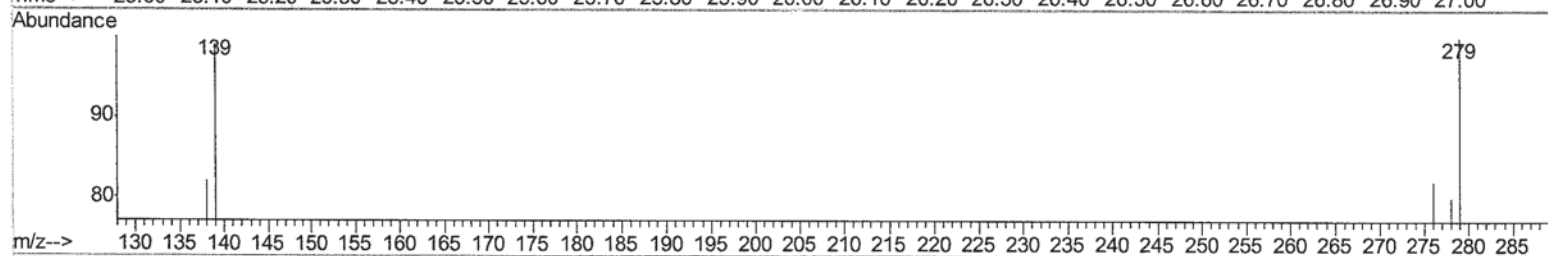
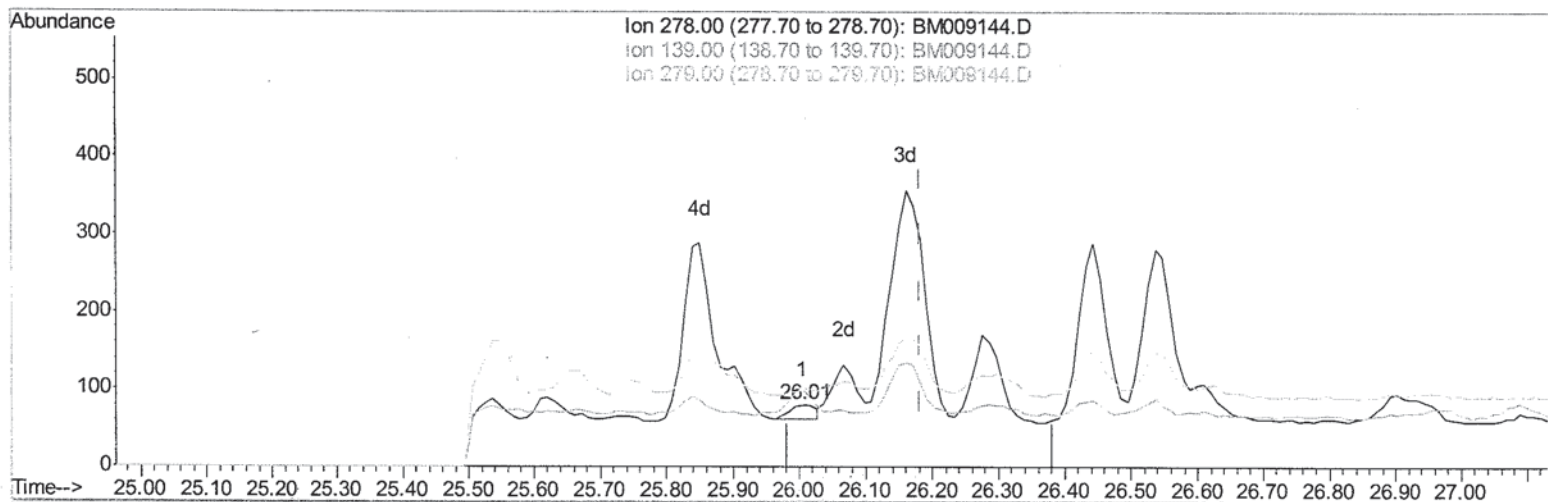
Data Path : Z:\HPCHEM1\BNA_M\Data\BM030917\
Data File : BM009144.D
Acq On : 09 Mar 2017 14:21
Operator : SJ/MA
Sample : I2062-20
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AK6

Manual Integrations
APPROVED

mohammad
3/10/2017 6:00:56 PM

Quant Time: Mar 09 15:36:42 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 09 15:10:54 2017
Response via : Initial Calibration



TIC: BM009144.D

(25) Dibenzo(a,h)anthracene

26.005min (-0.177) 0.01ng/ul

response 49

Ion	Exp%	Act%
278.00	100	100
139.00	21.70	123.75#
279.00	32.40	125.00#
0.00	0.00	0.00

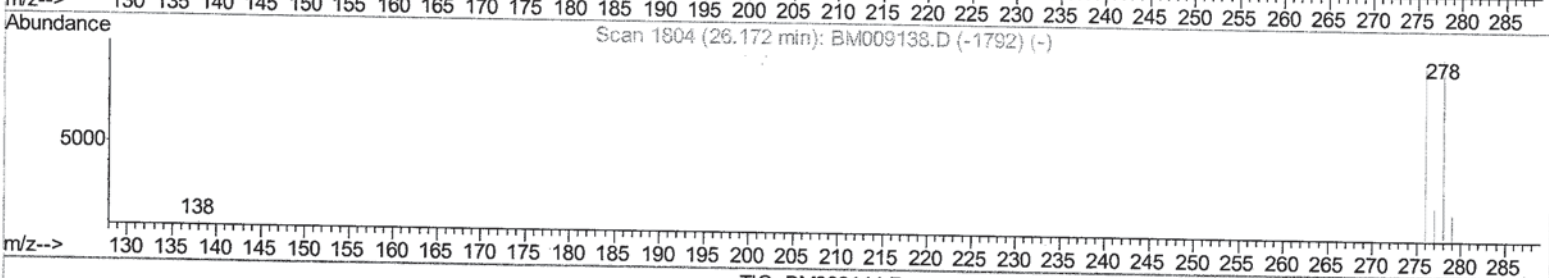
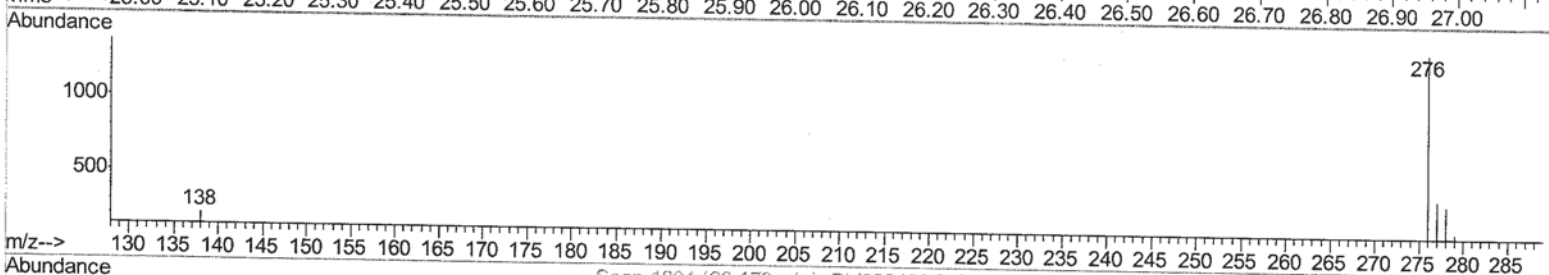
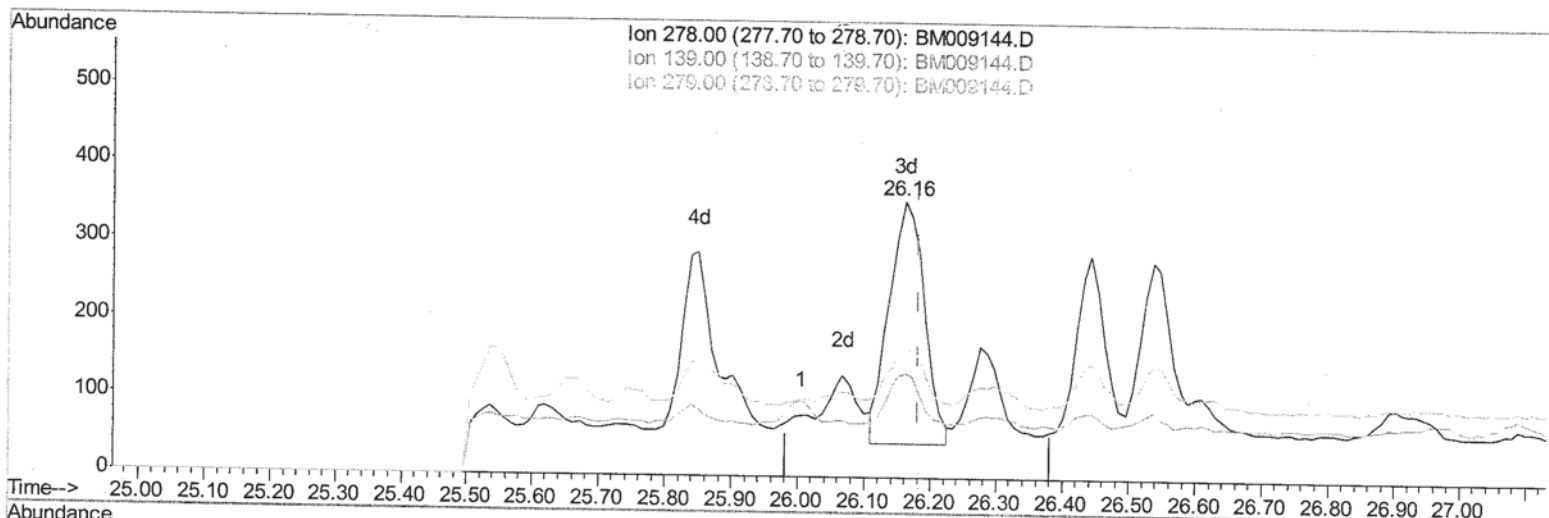
Data Path : Z:\HPCHEM1\BNA_M\Data\BM030917\
Data File : BM009144.D
Acq On : 09 Mar 2017 14:21
Operator : SJ/MA
Sample : I2062-20
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AK6

Manual Integrations
APPROVED

mohammad
3/10/2017 6:00:56 PM

Quant Time: Mar 09 15:36:42 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 09 15:10:54 2017
Response via : Initial Calibration



TIC: BM009144.D

(25) Dibenzo(a,h)anthracene

26.162min (-0.021) 0.34ng/ul m

SJ 3/13/17

response 1157

Ion	Exp%	Act%
278.00	100	100
139.00	21.70	37.82#
279.00	32.40	46.78#
0.00	0.00	0.00

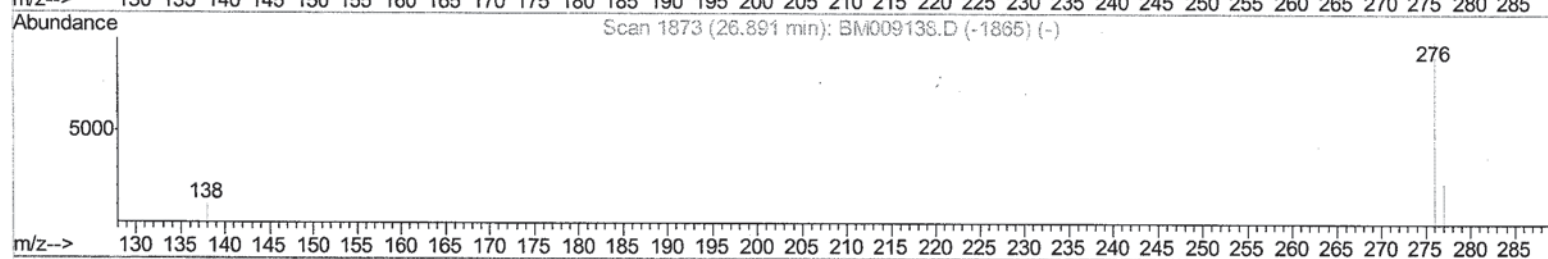
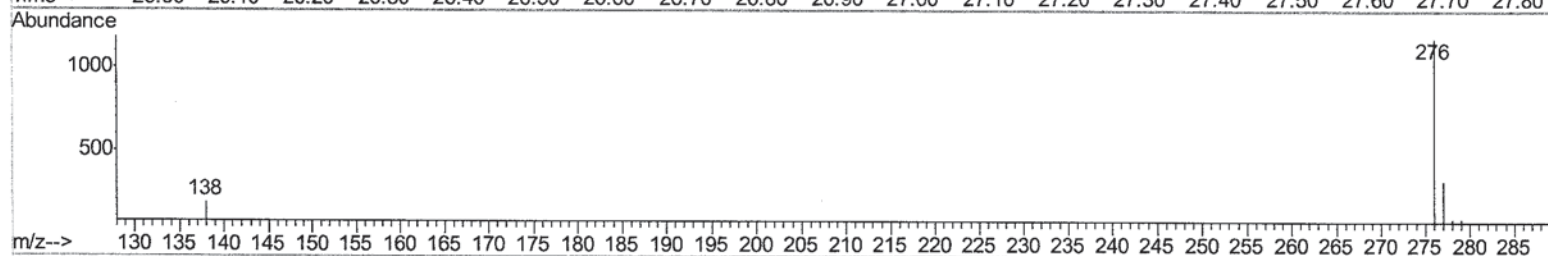
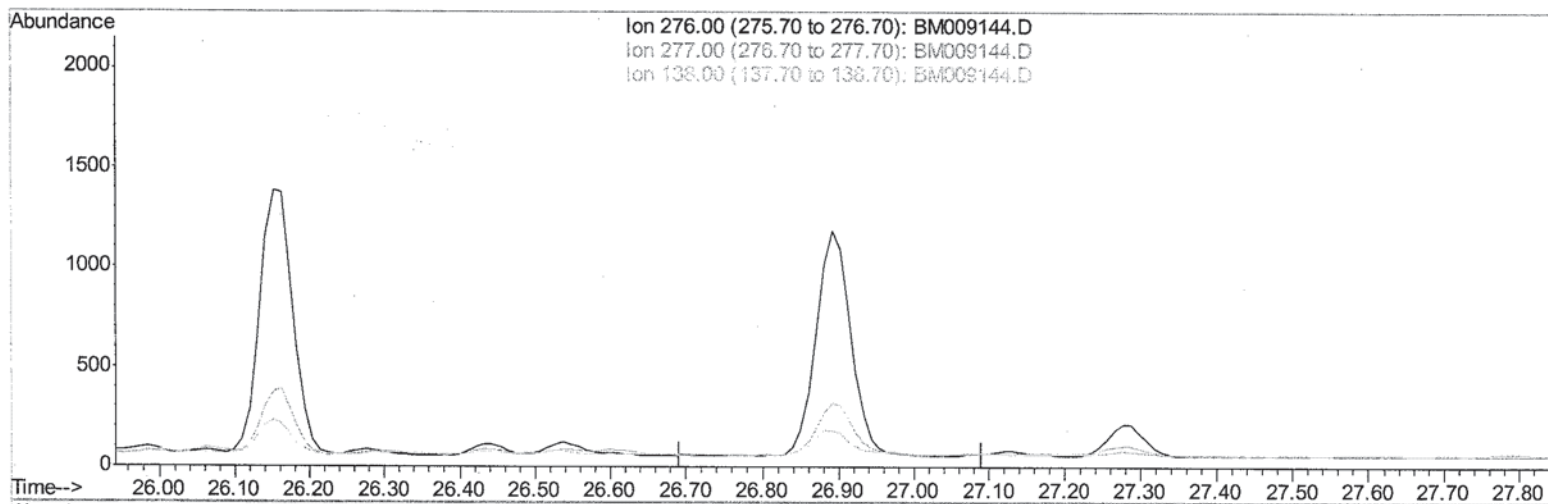
Data Path : Z:\HPCHEM1\BNA_M\Data\BM030917\
Data File : BM009144.D
Acq On : 09 Mar 2017 14:21
Operator : SJ/MA
Sample : I2062-20
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AK6

Manual Integrations
APPROVED

mohammad
3/10/2017 6:00:56 PM

Quant Time: Mar 09 15:36:42 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 09 15:10:54 2017
Response via : Initial Calibration



TIC: BM009144.D

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

26.891min (-26.891) 0.00ng/ul

response 0

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

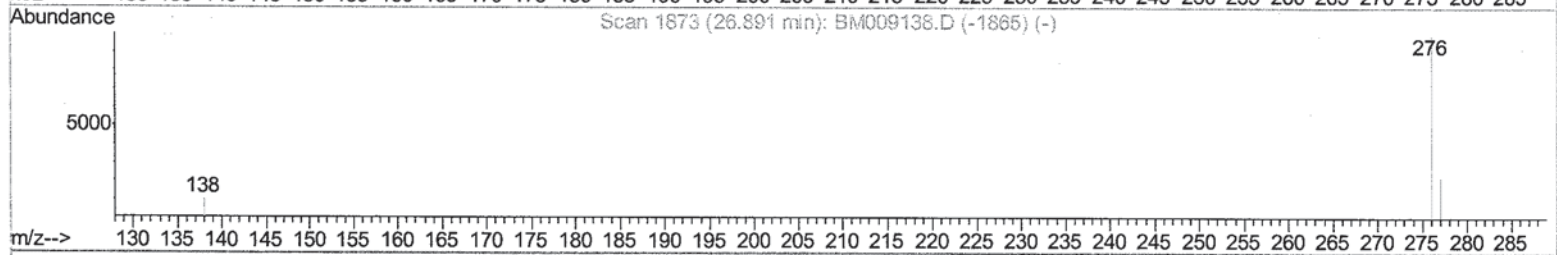
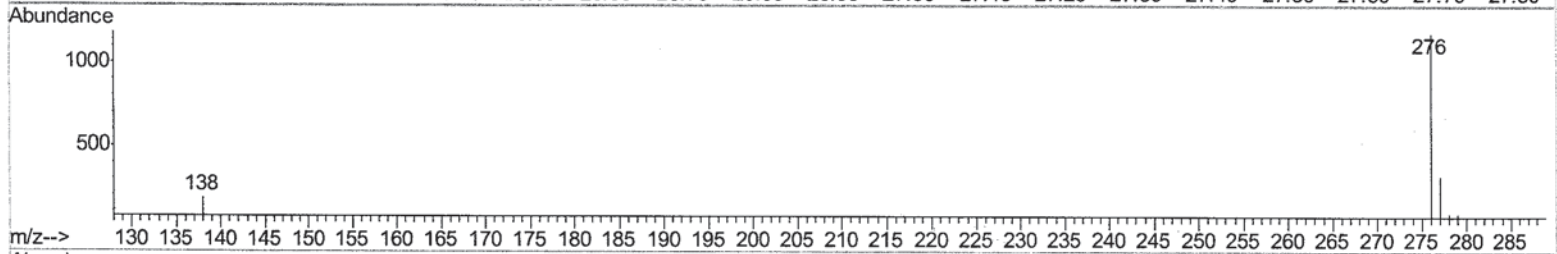
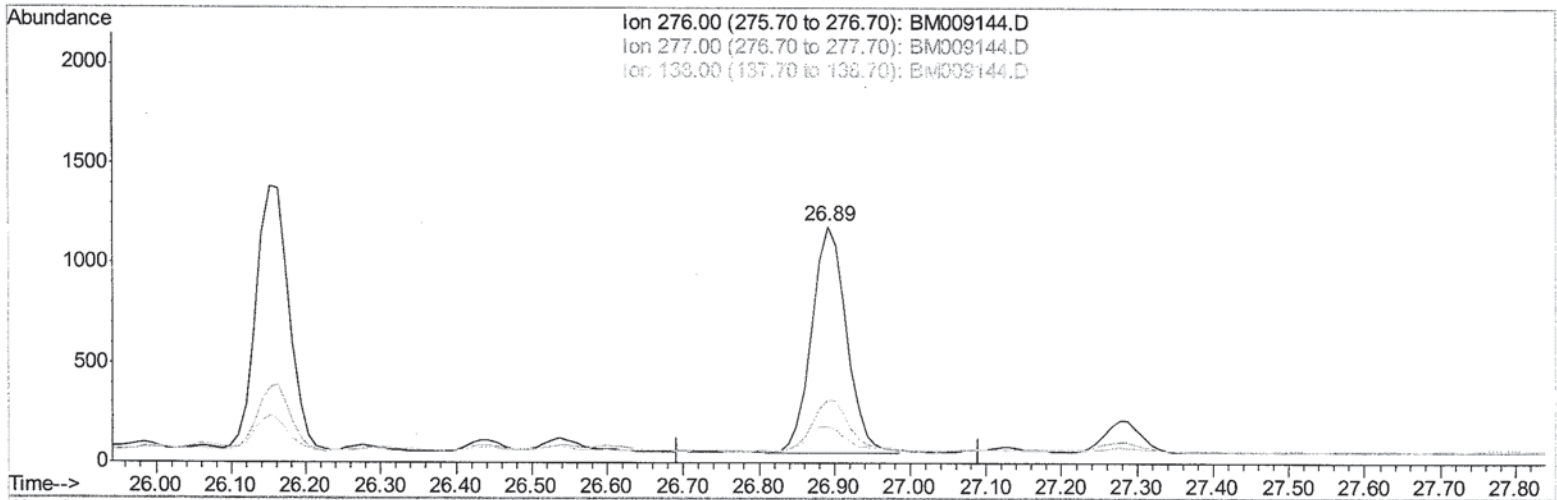
Data Path : Z:\HPCHEM1\BNA_M\Data\BM030917\
Data File : BM009144.D
Acq On : 09 Mar 2017 14:21
Operator : SJ/MA
Sample : I2062-20
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AK6

Manual Integrations
APPROVED

mohammad
3/10/2017 6:00:56 PM

Quant Time: Mar 09 15:36:42 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 09 15:10:54 2017
Response via : Initial Calibration



TIC: BM009144.D

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

26.891min (-0.000) 1.04ng/ul m

SJ 3/13/17

response 3639

Ion	Exp%	Act%
276.00	100	100
277.00	27.30	27.26
138.00	25.60	15.61#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM030917\
 Data File : BM009144.D
 Acq On : 09 Mar 2017 14:21
 Operator : SJ/MA
 Sample : I2062-20
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AK6

Manual Integrations
 APPROVED

mohammad
 3/10/2017 6:00:56 PM

Quant Time: Mar 09 15:39:34 2017
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM030317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 09 15:10:54 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.88	152	194	0.40	ng/ul	0.00
2) Naphthalene-d8	10.68	136	630	0.40	ng/ul	-0.01
6) Acenaphthene-d10	14.52	164	392	0.40	ng/ul	0.00
10) Phenanthrene-d10	17.26	188	889m	0.40	ng/ul	0.00
16) Chrysene-d12	21.44	240	1111	0.40	ng/ul	-0.01
20) Perylene-d12	23.78	264	914m	0.40	ng/ul	0.00

SJ 3/13/17

System Monitoring Compounds						
4) 2-Methylnaphthalene-d10	12.27	152	285	0.27	ng/ul	0.00
14) Fluoranthene-d10	19.29	212	904	0.33	ng/ul	-0.01

Target Compounds				Qvalue		
3) Naphthalene	10.73	128	4582	2.52	ng/ul	97
5) 2-Methylnaphthalene	12.34	142	3768	2.88	ng/ul	99
7) Acenaphthylene	14.23	152	359	0.18	ng/ul#	44
8) Acenaphthene	14.59	153	146	0.09	ng/ul#	79
9) Fluorene	15.56	166	139	0.08	ng/ul#	41
12) Phenanthrene	17.31	178	4475	1.60	ng/ul	92
13) Anthracene	17.40	178	664	0.24	ng/ul#	86
15) Fluoranthene	19.33	202	8666	2.38	ng/ul	94
17) Pyrene	19.69	202	9359	2.45	ng/ul	97
18) Benzo(a)anthracene	21.42	228	6333	1.72	ng/ul	95
19) Chrysene	21.48	228	5872	1.68	ng/ul	95
21) Benzo(b)fluoranthene	23.07	252	10188m	2.84	ng/ul	
22) Benzo(k)fluoranthene	23.11	252	3255m	1.03	ng/ul	
23) Benzo(a)pyrene	23.67	252	5661m	1.75	ng/ul	
24) Indeno(1,2,3-cd)pyrene	26.15	276	4133m	1.01	ng/ul	
25) Dibenzo(a,h)anthracene	26.16	278	1157m	0.34	ng/ul	
26) Benzo(g,h,i)perylene	26.89	276	3639m	1.04	ng/ul	

SJ 3/13/17

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