

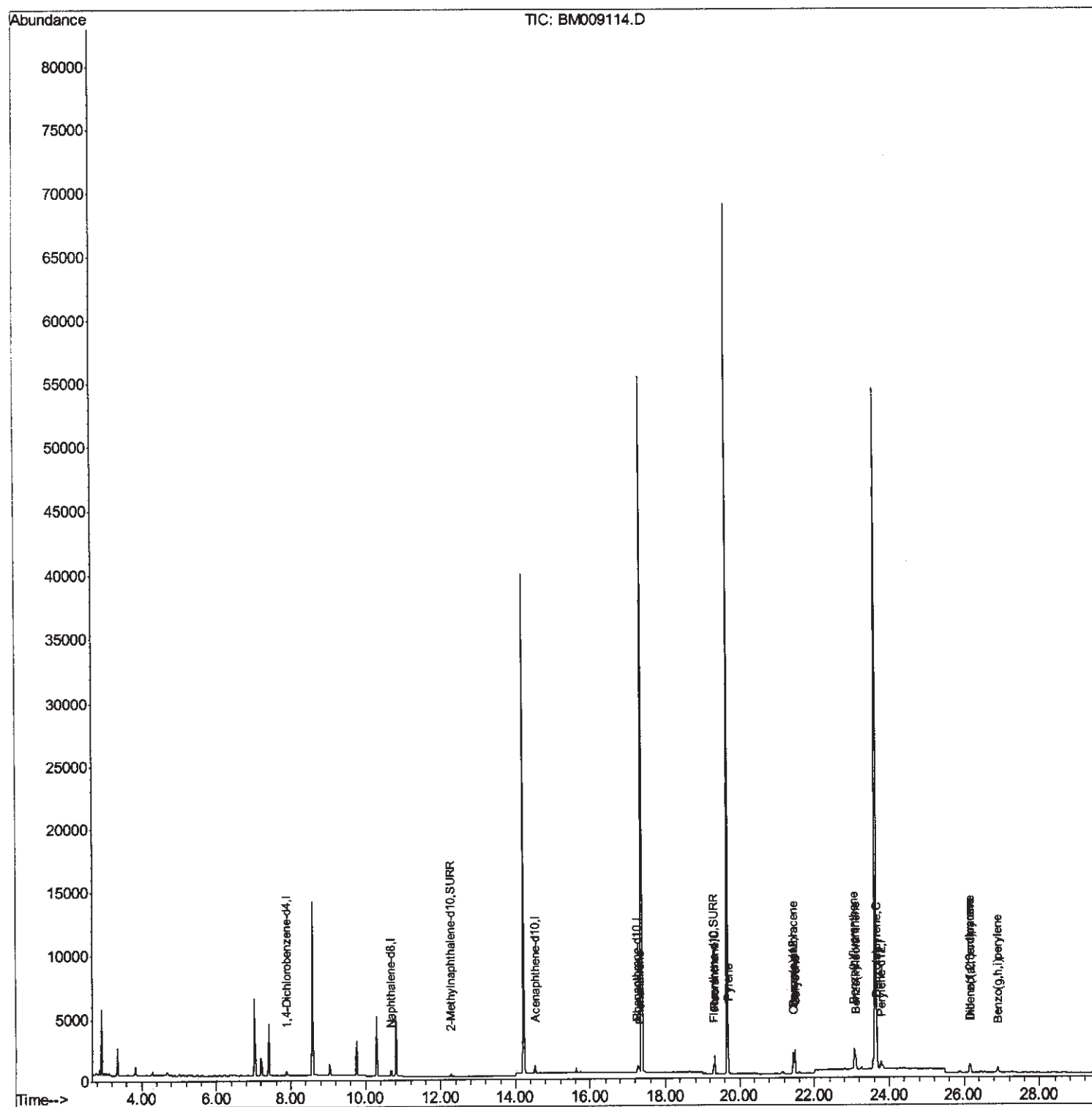
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009114.D
Acq On : 08 Mar 2017 18:05
Operator : SJ/MA
Sample : I2062-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AC8

Manual Integrations
APPROVED

mohammad
3/9/2017 2:01:18 PM

Quant Time: Mar 09 01:36:48 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 01:19:41 2017
Response via : Initial Calibration



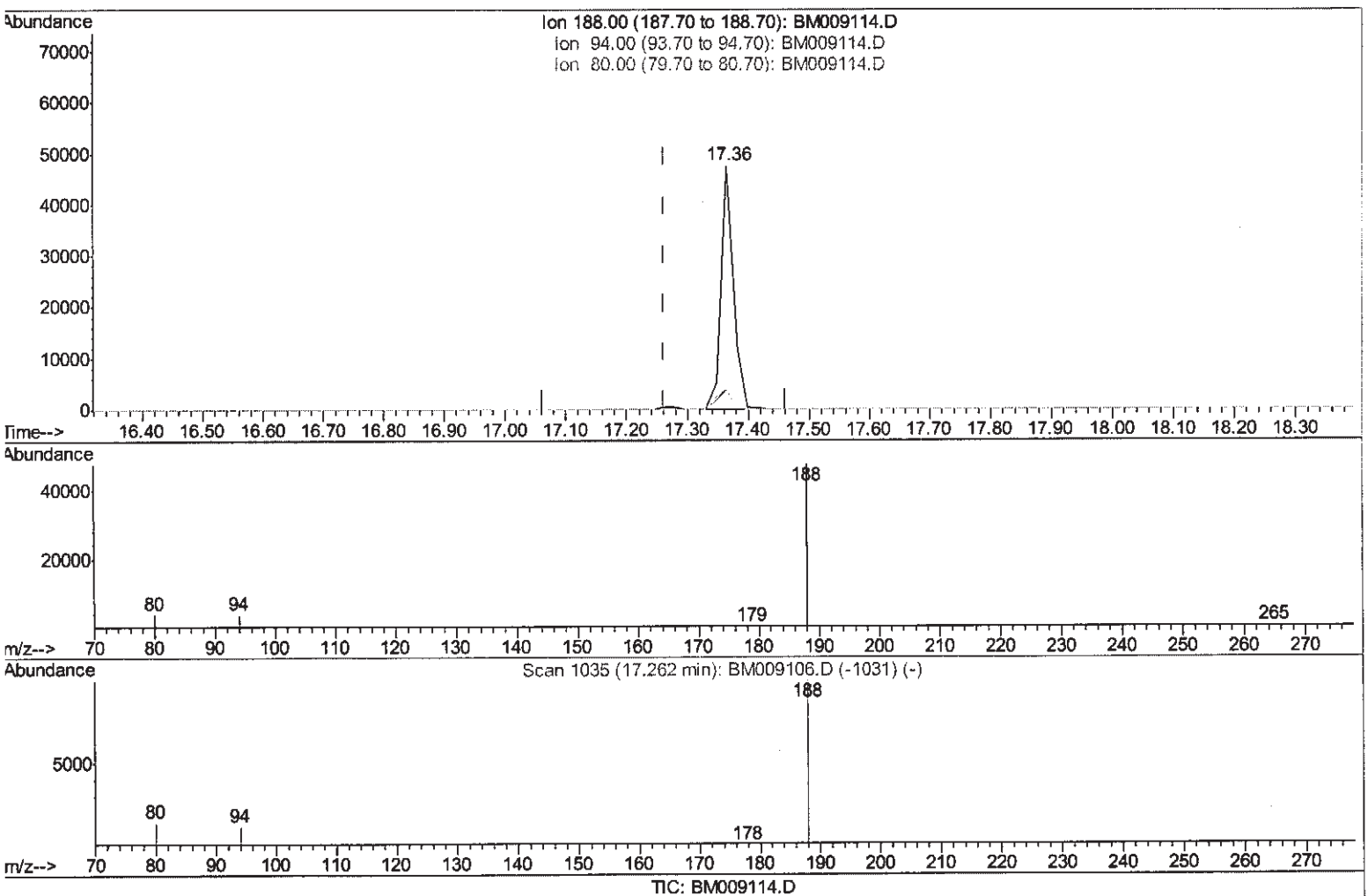
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009114.D
Acq On : 08 Mar 2017 18:05
Operator : SJ/MA
Sample : I2062-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AC8

Manual Integrations
APPROVED

mohammad
3/9/2017 2:01:18 PM

Quant Time: Mar 09 01:20:23 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 01:19:41 2017
Response via : Initial Calibration



(10) Phenanthrene-d10 (I)

17.365min (+0.103) 0.40ng/ul

response 66515

Ion	Exp%	Act%
188.00	100	100
94.00	11.00	7.83#
80.00	11.80	8.06#
0.00	0.00	0.00

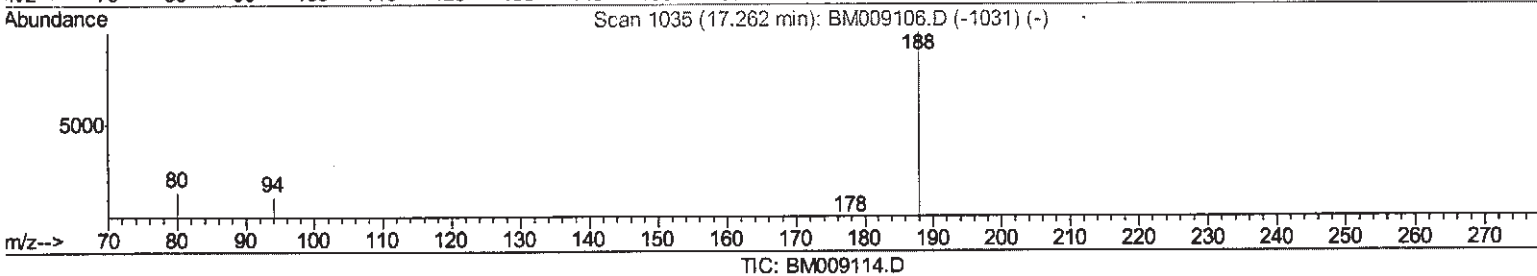
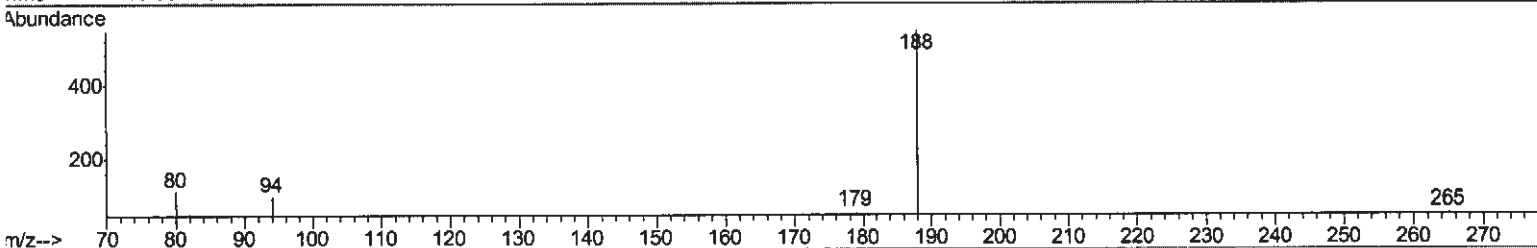
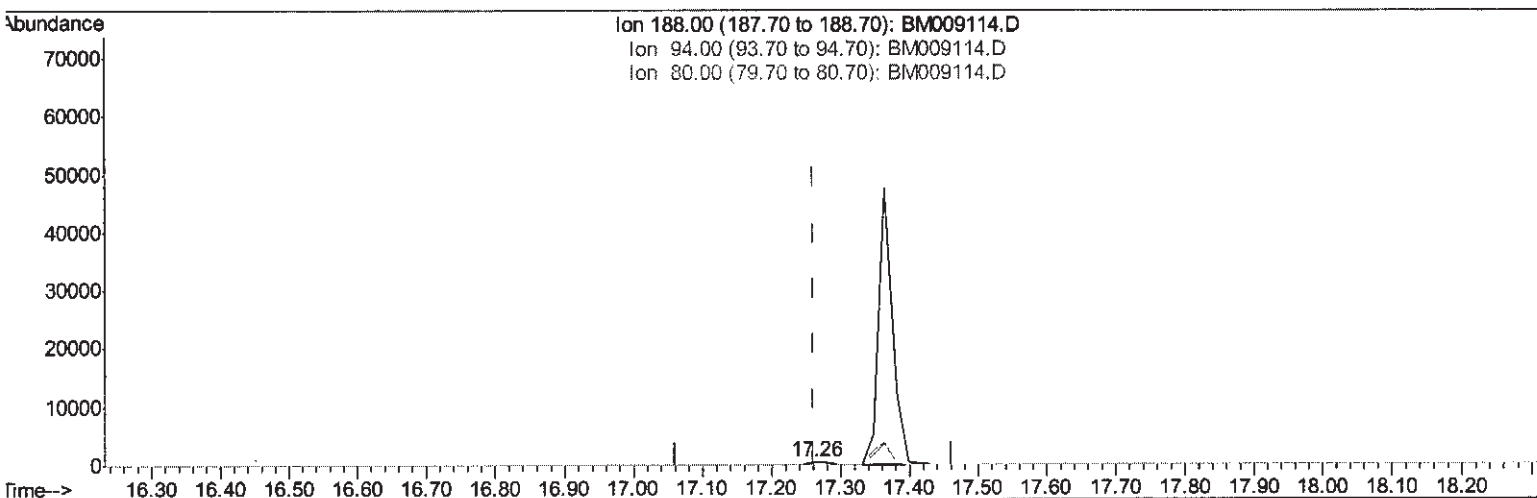
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009114.D
Acq On : 08 Mar 2017 18:05
Operator : SJ/MA
Sample : I2062-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AC8

Manual Integrations
APPROVED

mohammad
3/9/2017 2:01:18 PM

Quant Time: Mar 09 01:20:23 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 01:19:41 2017
Response via : Initial Calibration



(10) Phenanthrene-d10 (I)

17.262min (+0.000) 0.40ng/ul m >

response 981

Ion	Exp%	Act%
188.00	100	100
94.00	11.00	17.77#
80.00	11.80	20.33#
0.00	0.00	0.00

SJ
03/16/17

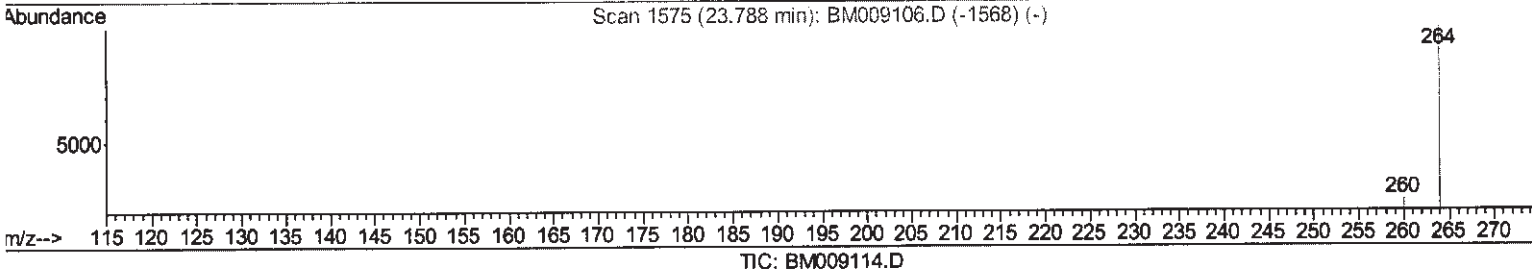
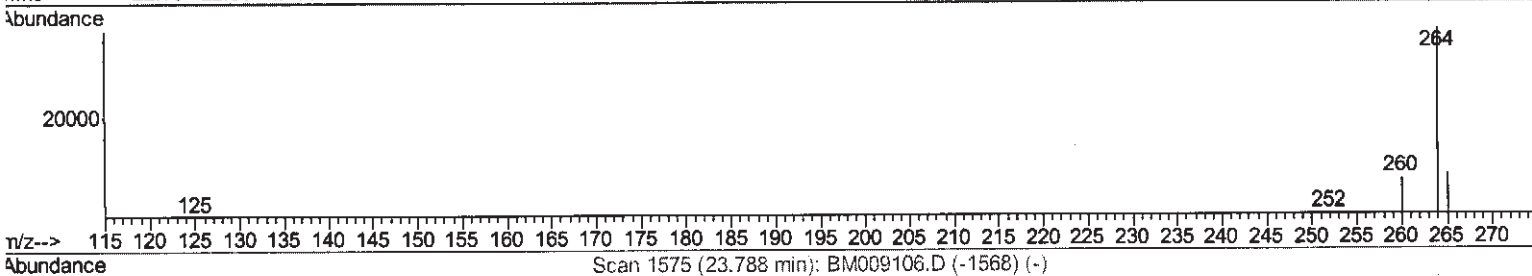
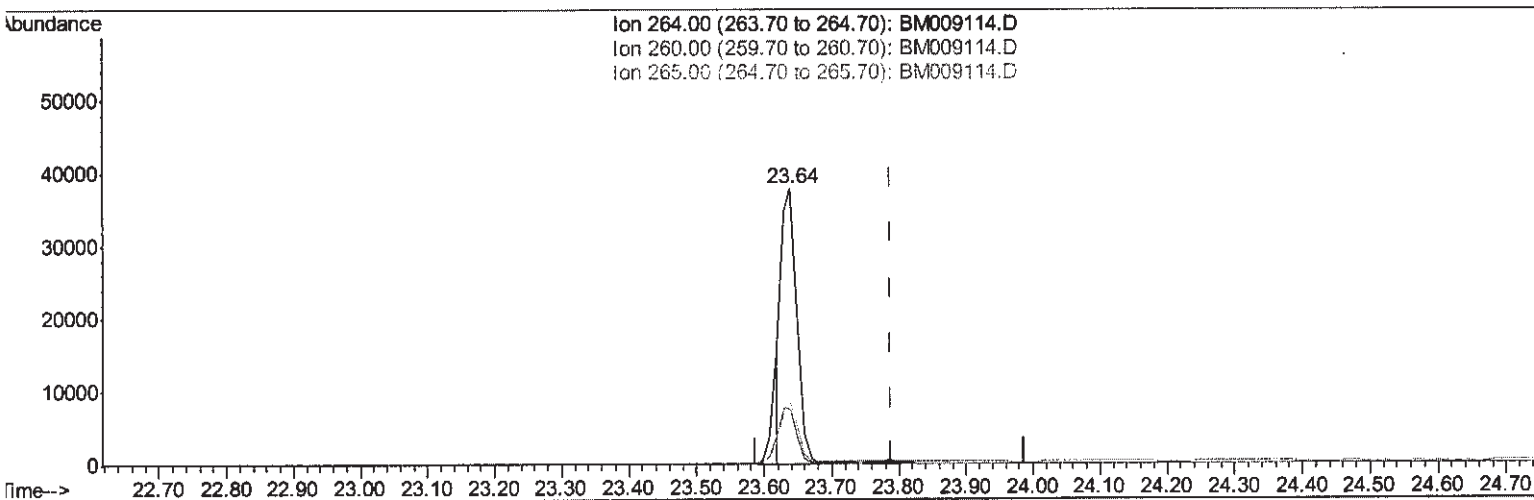
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009114.D
Acq On : 08 Mar 2017 18:05
Operator : SJ/MA
Sample : I2062-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AC8

Manual Integrations
APPROVED

mohammad
3/9/2017 2:01:18 PM

Quant Time: Mar 09 01:20:23 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 01:19:41 2017
Response via : Initial Calibration



(20) Perylene-d12 (I)

23.639min (-0.149) 0.40ng/ul

response 59930

Ion	Exp%	Act%
264.00	100	100
260.00	30.10	19.63#
265.00	103.50	22.26#
0.00	0.00	0.00

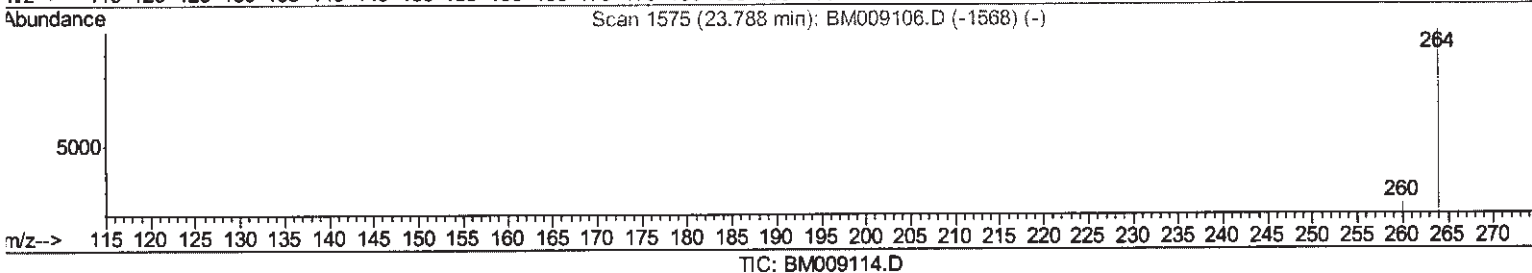
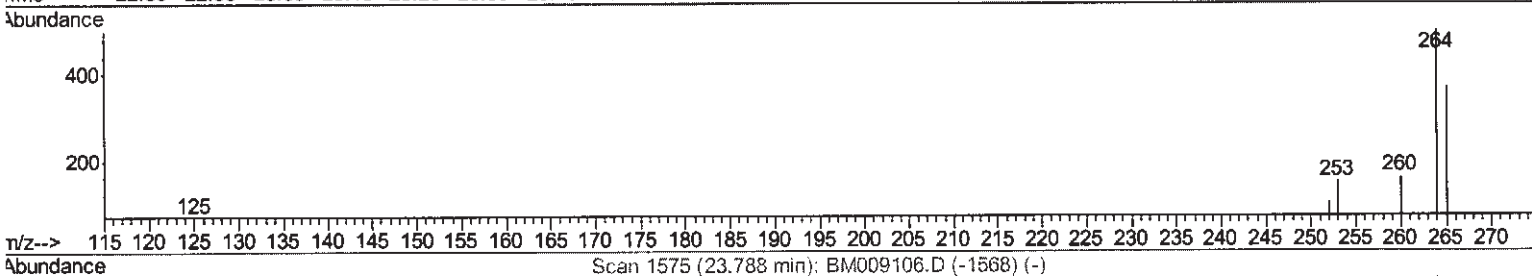
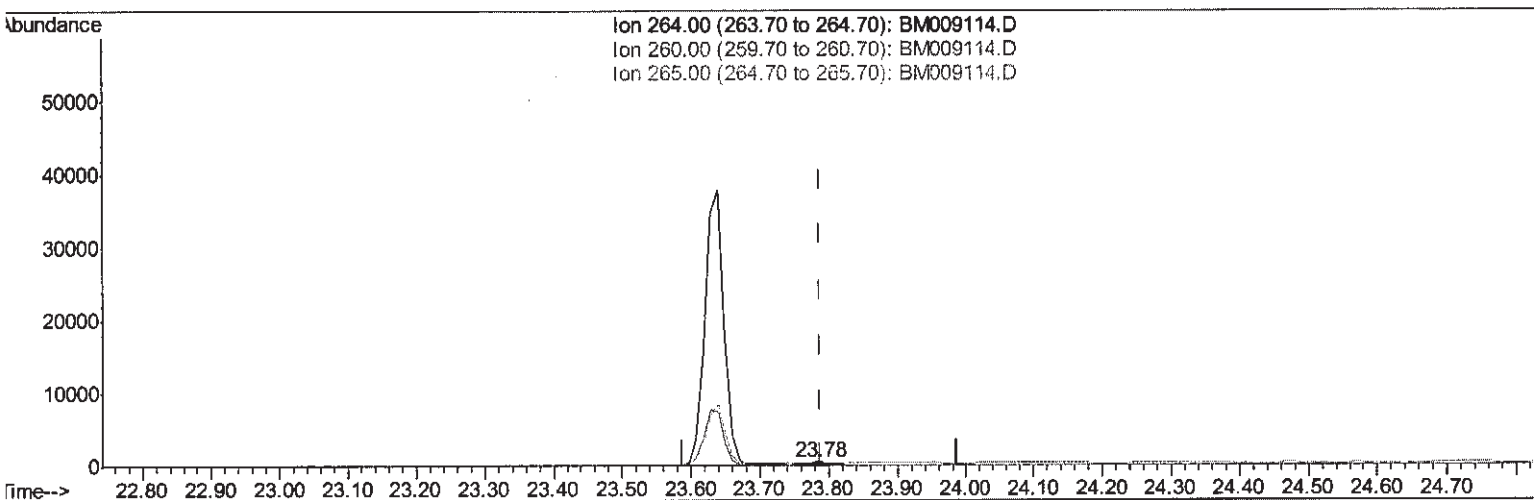
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009114.D
Acq On : 08 Mar 2017 18:05
Operator : SJ/MA
Sample : I2062-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AC8

Manual Integrations
APPROVED

mohammad
3/9/2017 2:01:18 PM

Quant Time: Mar 09 01:20:23 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 01:19:41 2017
Response via : Initial Calibration



(20) Perylene-d12 (I)

23.785min (-0.003) 0.40ng/ul m

response 879

Ion	Exp%	Act%
264.00	100	100
260.00	30.10	31.54
265.00	103.50	73.45#
0.00	0.00	0.00

> SJ
03/16/17

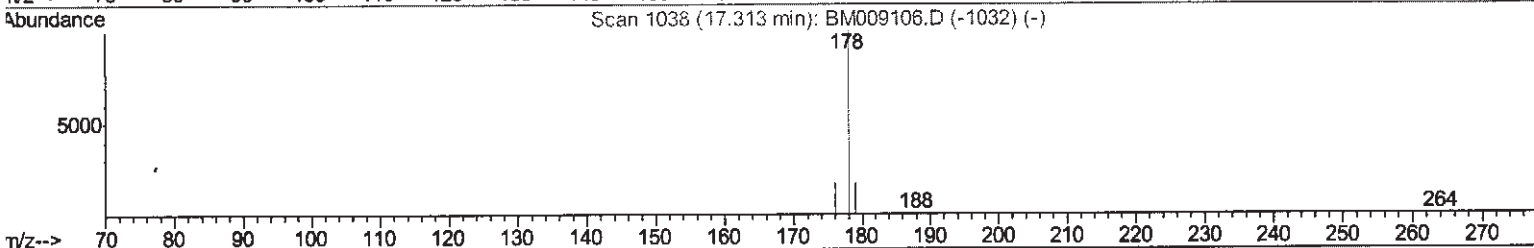
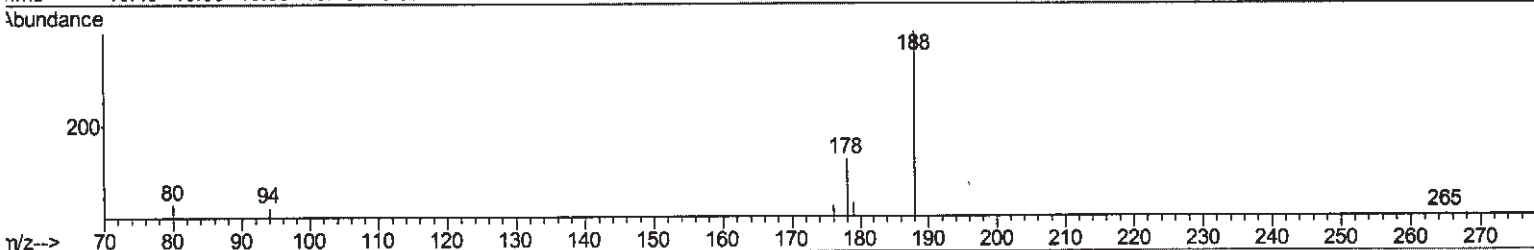
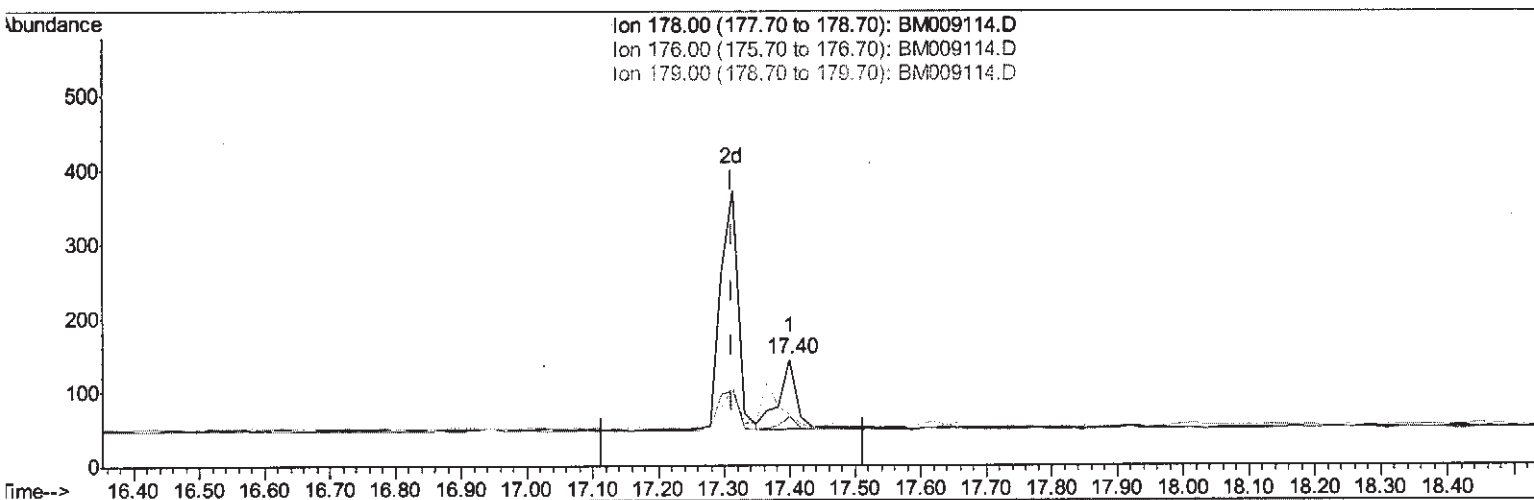
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009114.D
Acq On : 08 Mar 2017 18:05
Operator : SJ/MA
Sample : I2062-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AC8

Manual Integrations
APPROVED

mohammad
3/9/2017 2:01:18 PM

Quant Time: Mar 09 01:32:37 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 01:19:41 2017
Response via : Initial Calibration



TIC: BM009114.D

(12) Phenanthrene

17.399min (+0.086) 0.06ng/ul

response 183

Ion	Exp%	Act%
178.00	100	100
176.00	23.00	45.83#
179.00	17.00	48.61#
0.00	0.00	0.00

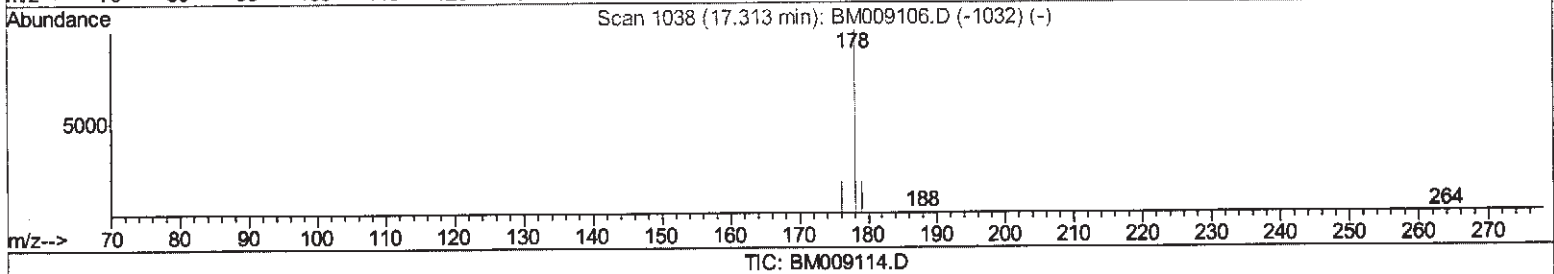
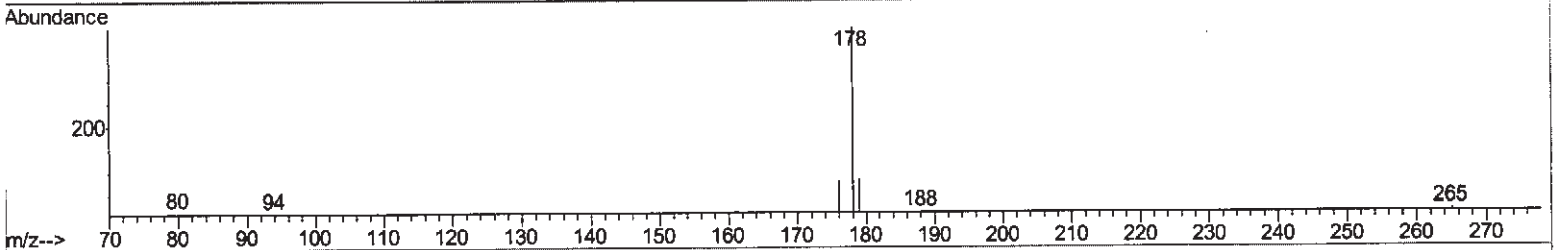
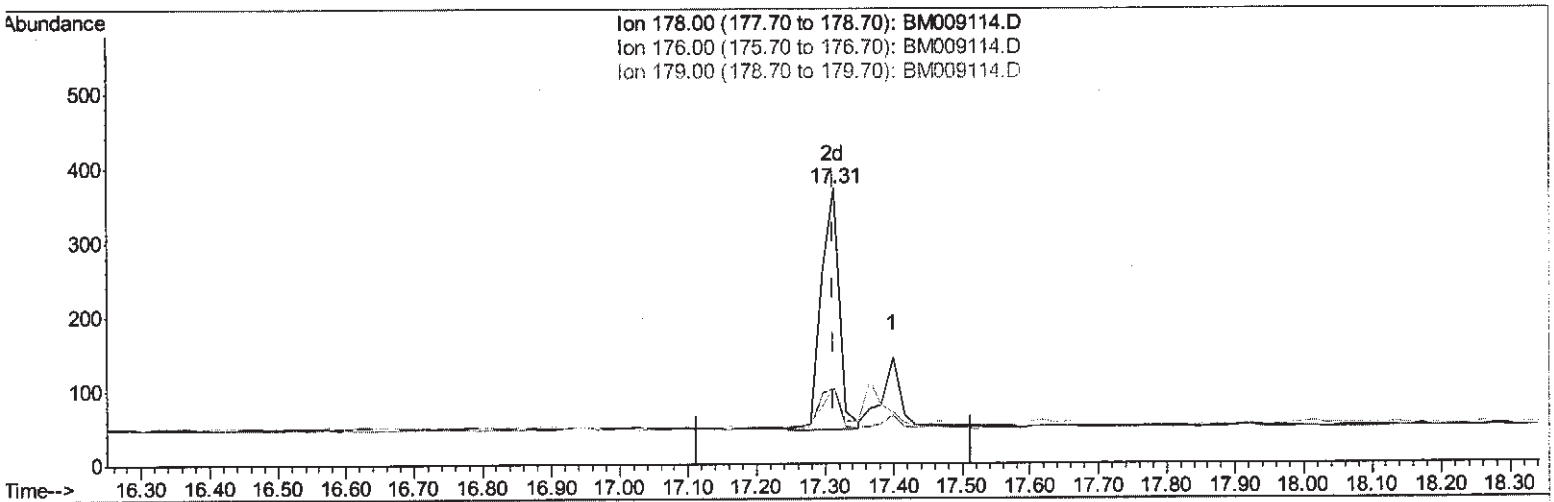
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009114.D
Acq On : 08 Mar 2017 18:05
Operator : SJ/MA
Sample : I2062-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AC8

Manual Integrations
APPROVED

mohammad
3/9/2017 2:01:18 PM

Quant Time: Mar 09 01:32:37 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 01:19:41 2017
Response via : Initial Calibration



(12) Phenanthrene

17.313min (+0.000) 0.20ng/ul m

response 604

Ion	Exp%	Act%
178.00	100	100
176.00	23.00	27.42
179.00	17.00	28.23#
0.00	0.00	0.00

> SJ
03/16/17

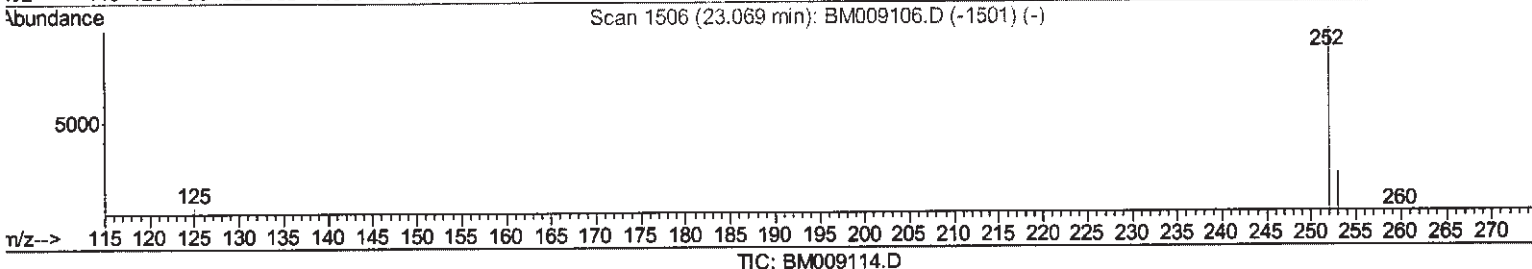
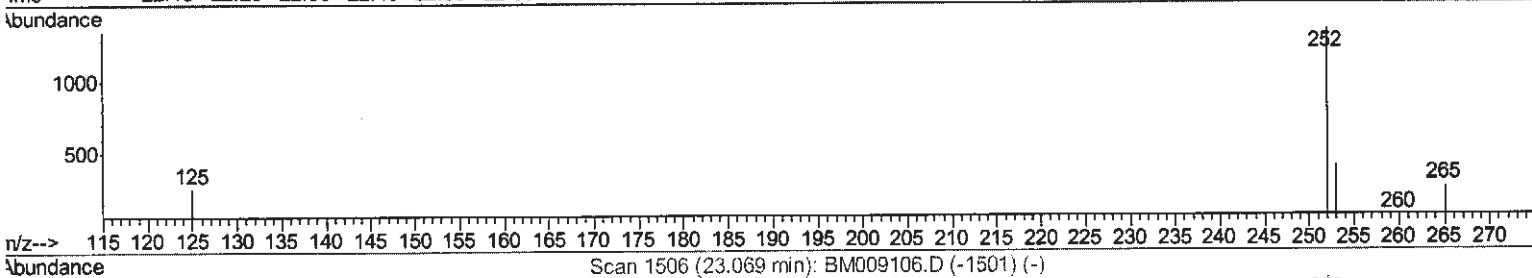
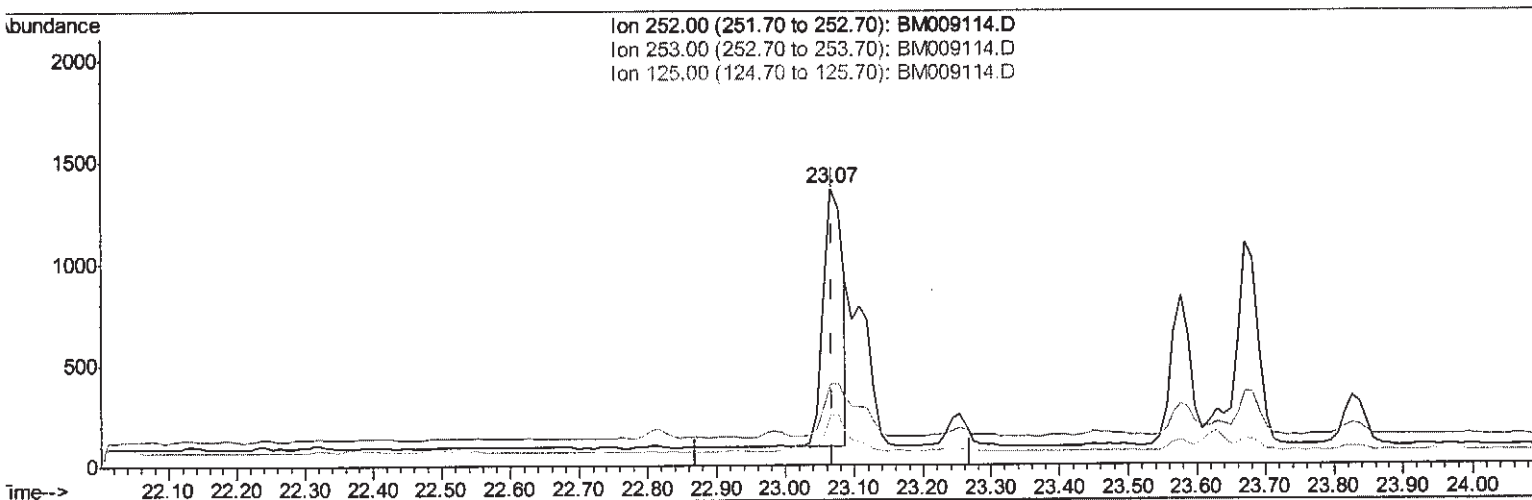
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009114.D
Acq On : 08 Mar 2017 18:05
Operator : SJ/MA
Sample : I2062-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AC8

Manual Integrations
APPROVED

mohammad
3/9/2017 2:01:18 PM

Quant Time: Mar 09 01:32:37 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 01:19:41 2017
Response via : Initial Calibration



(21) Benzo(b)fluoranthene

23.066min (-0.003) 0.76ng/ui

response 2610

Ion	Exp%	Act%
252.00	100	100
253.00	32.10	29.69
125.00	17.50	18.40
0.00	0.00	0.00

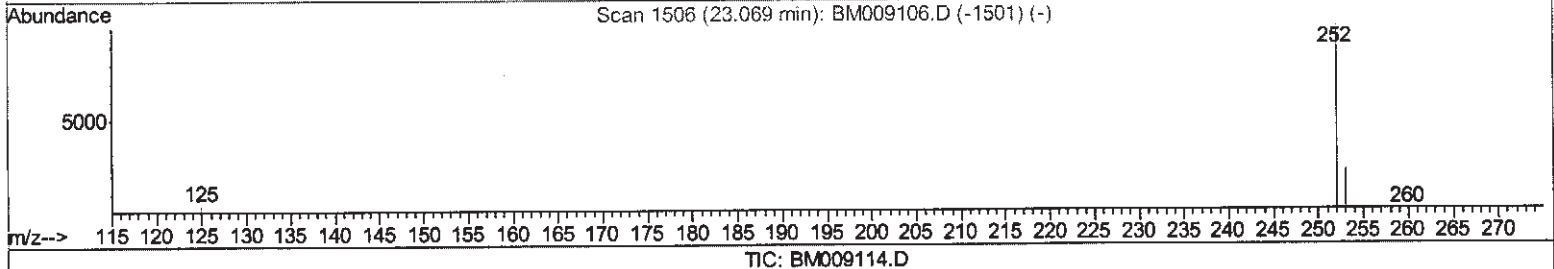
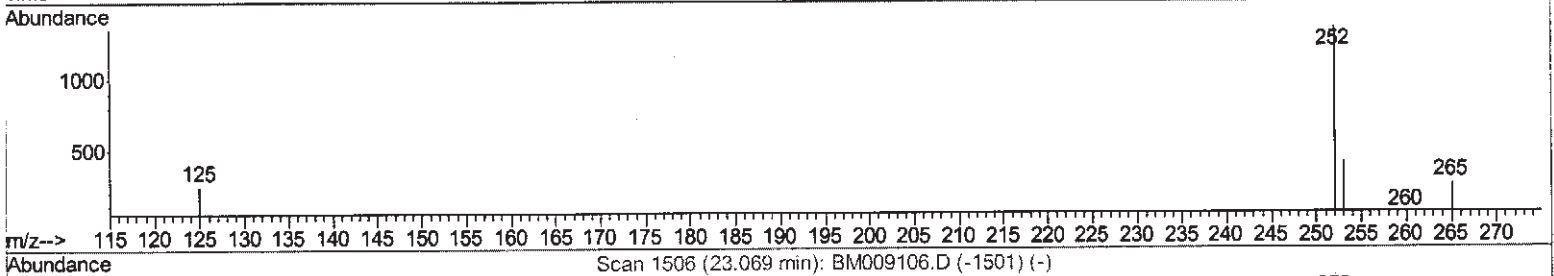
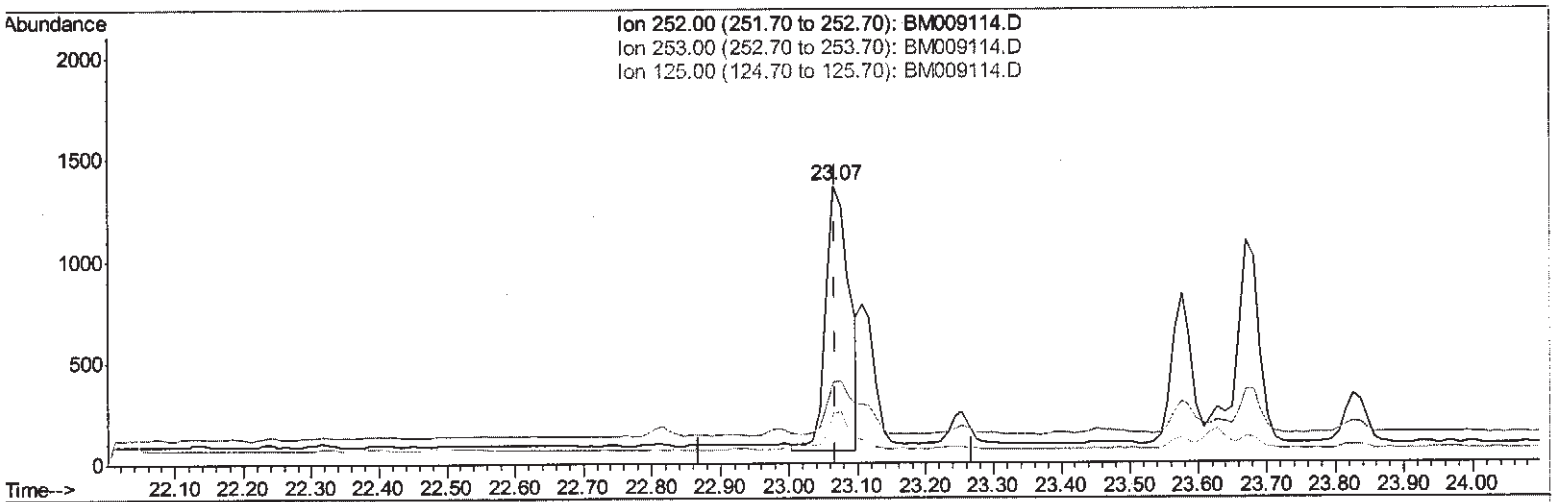
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009114.D
Acq On : 08 Mar 2017 18:05
Operator : SJ/MA
Sample : I2062-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AC8

Manual Integrations
APPROVED

mohammad
3/9/2017 2:01:18 PM

Quant Time: Mar 09 01:32:37 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 01:19:41 2017
Response via : Initial Calibration



(21) Benzo(b)fluoranthene

23.066min (-0.003) 0.92ng/ul m

response 3184

Ion	Exp%	Act%
252.00	100	100
253.00	32.10	29.69
125.00	17.50	18.40
0.00	0.00	0.00

> SJ
03/16/17

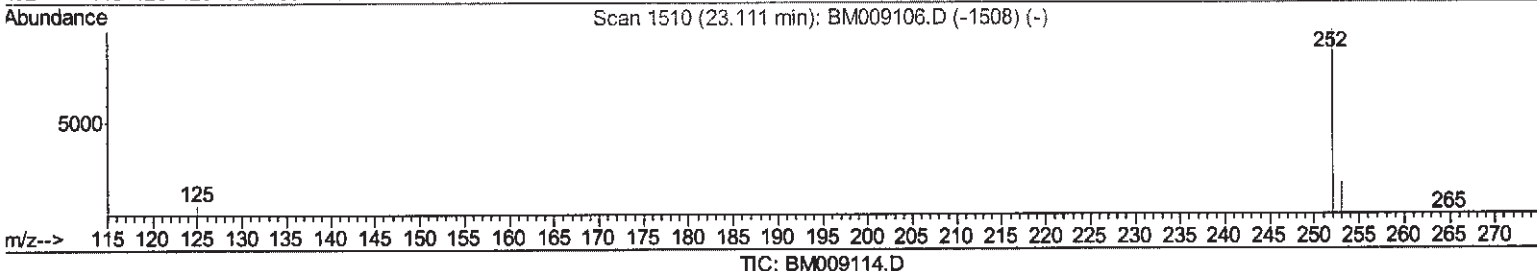
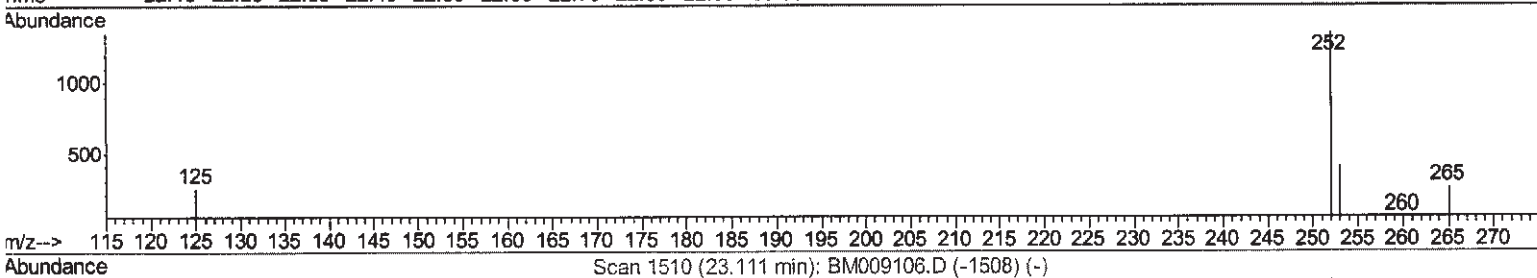
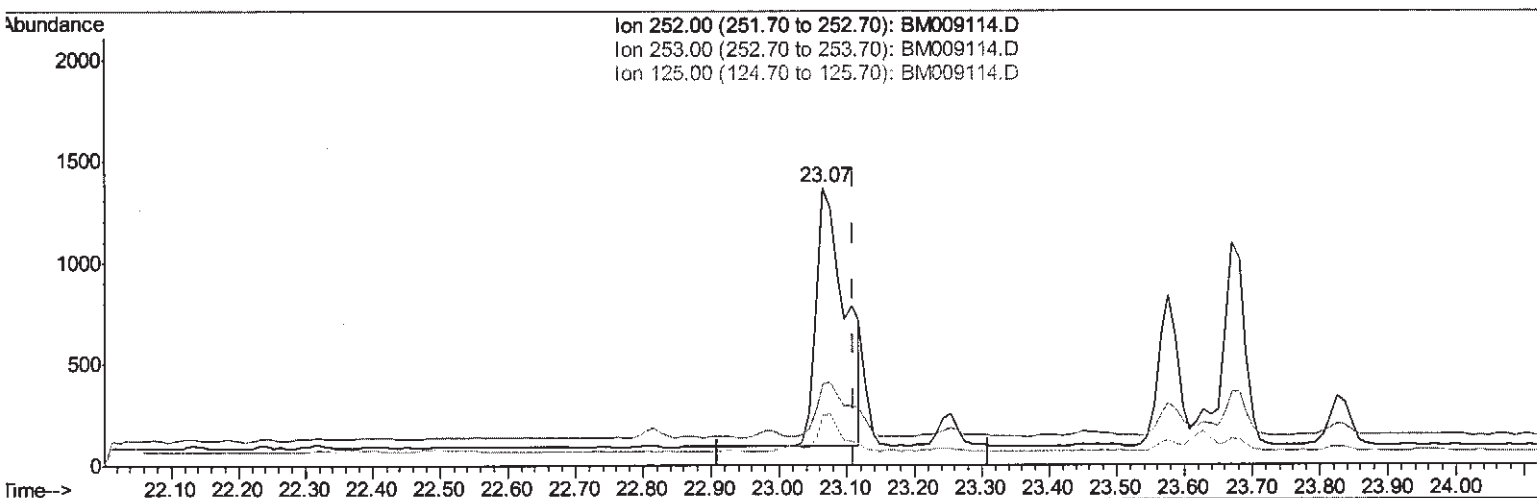
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009114.D
Acq On : 08 Mar 2017 18:05
Operator : SJ/MA
Sample : I2062-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AC8

Manual Integrations
APPROVED

mohammad
3/9/2017 2:01:18 PM

Quant Time: Mar 09 01:32:37 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 01:19:41 2017
Response via : Initial Calibration



(22) Benzo(k)fluoranthene

23.066min (-0.045) 1.26ng/ul

response 3833

Ion	Exp%	Act%
252.00	100	100
253.00	30.60	29.69
125.00	17.10	18.40
0.00	0.00	0.00

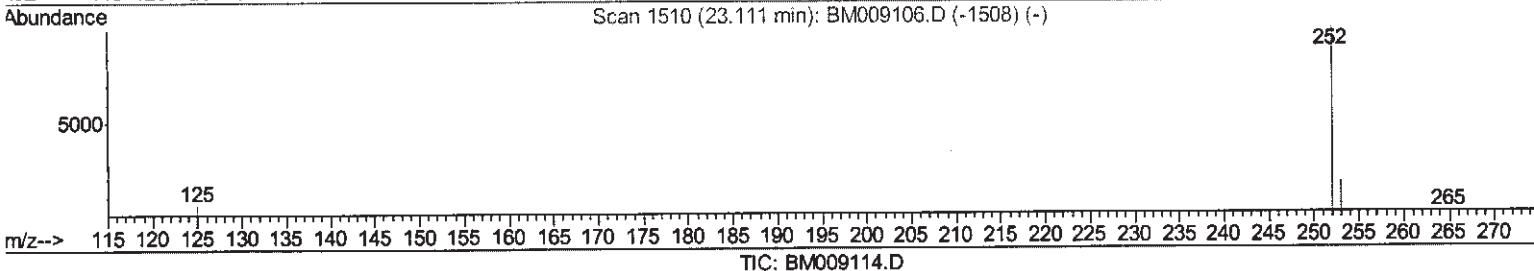
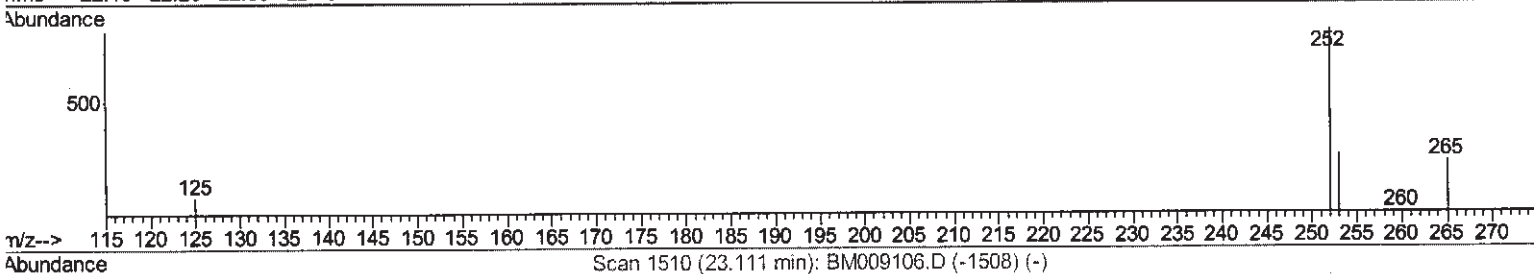
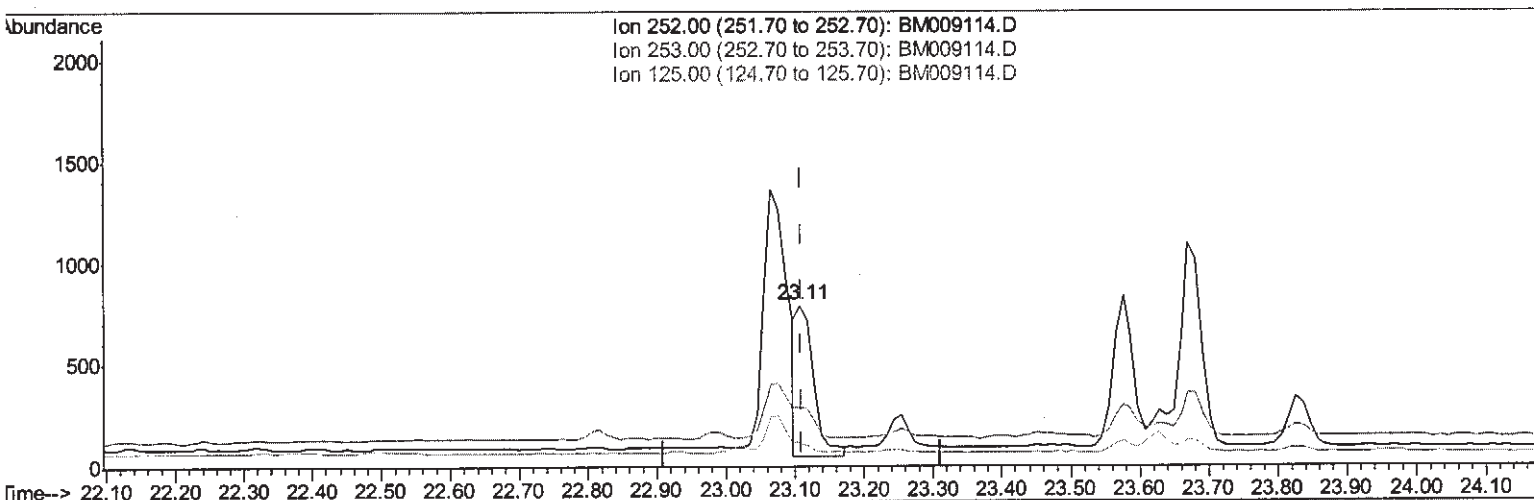
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009114.D
Acq On : 08 Mar 2017 18:05
Operator : SJ/MA
Sample : I2062-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AC8

Manual Integrations
APPROVED

mohammad
3/9/2017 2:01:18 PM

Quant Time: Mar 09 01:32:37 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 01:19:41 2017
Response via : Initial Calibration



(22) Benzo(k)fluoranthene

23.107min (-0.003) 0.41ng/ul m

response 1258

Ion	Exp%	Act%
252.00	100	100
253.00	30.60	36.68
125.00	17.10	14.59
0.00	0.00	0.00

SJ
03/16/17

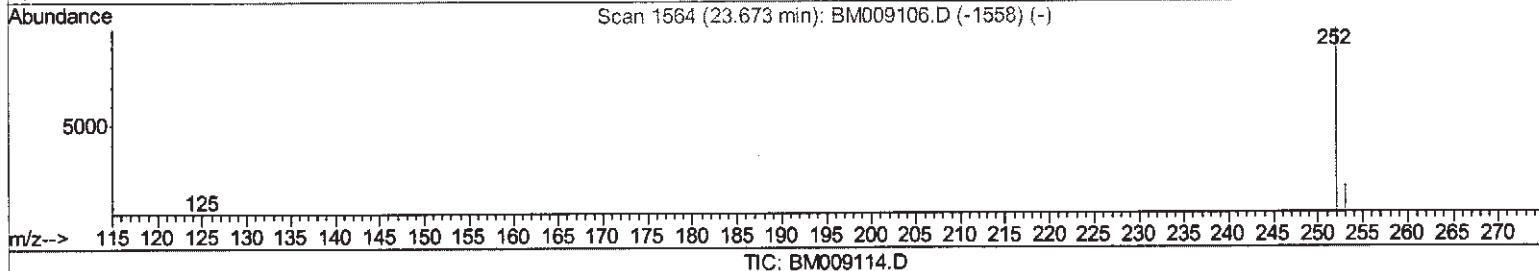
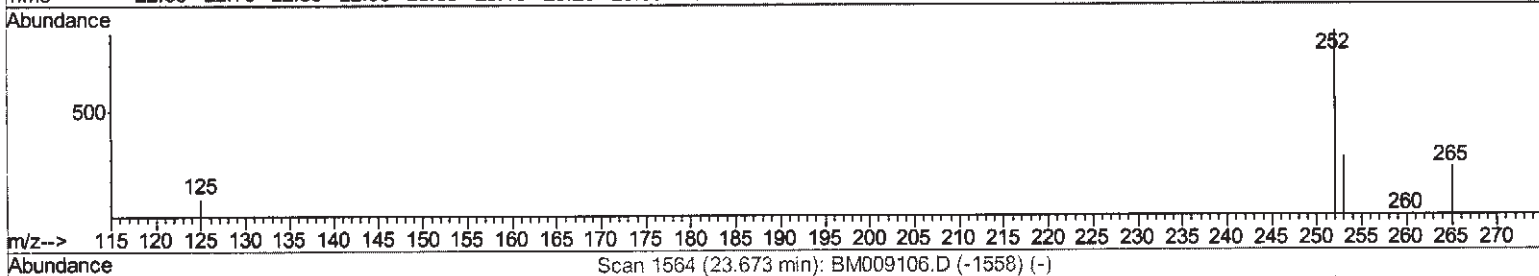
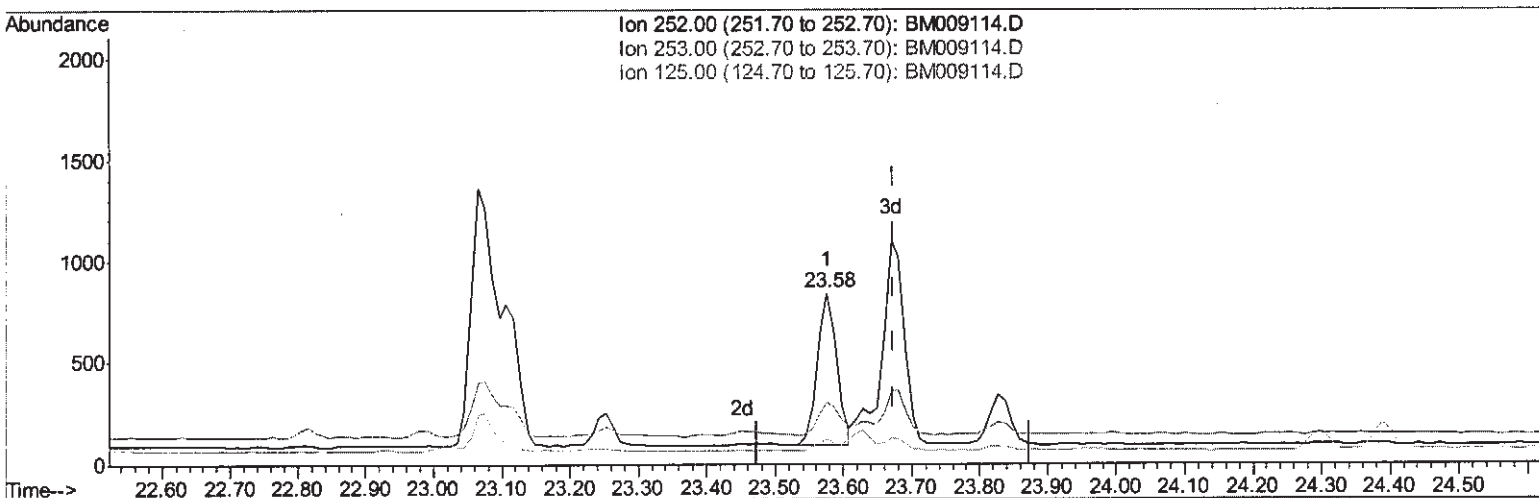
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009114.D
Acq On : 08 Mar 2017 18:05
Operator : SJ/MA
Sample : I2062-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AC8

Manual Integrations
APPROVED

mohammad
3/9/2017 2:01:18 PM

Quant Time: Mar 09 01:32:37 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 01:19:41 2017
Response via : Initial Calibration



(23) Benzo(a)pyrene (C)

23.576min (-0.097) 0.47ng/ul

response 1473

Ion	Exp%	Act%
252.00	100	100
253.00	35.60	36.16
125.00	22.60	15.16#
0.00	0.00	0.00

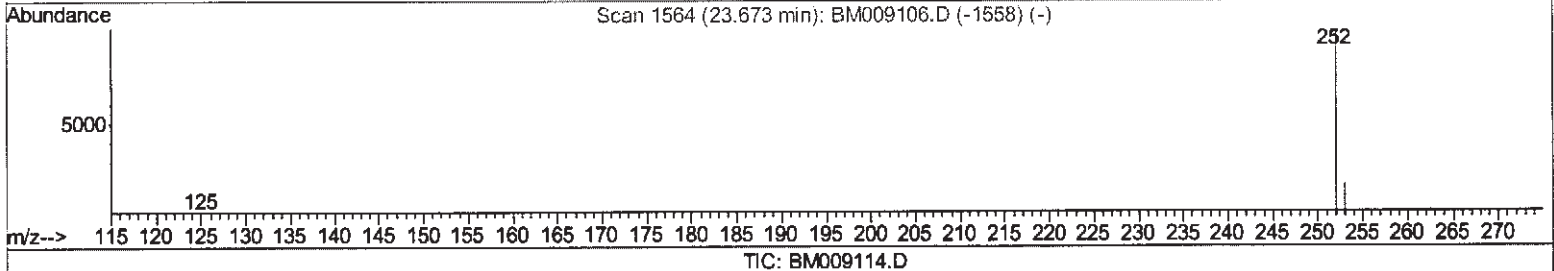
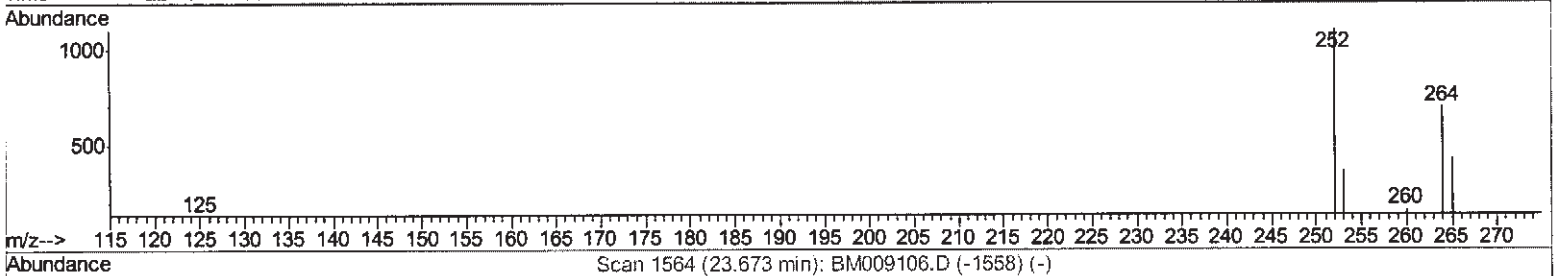
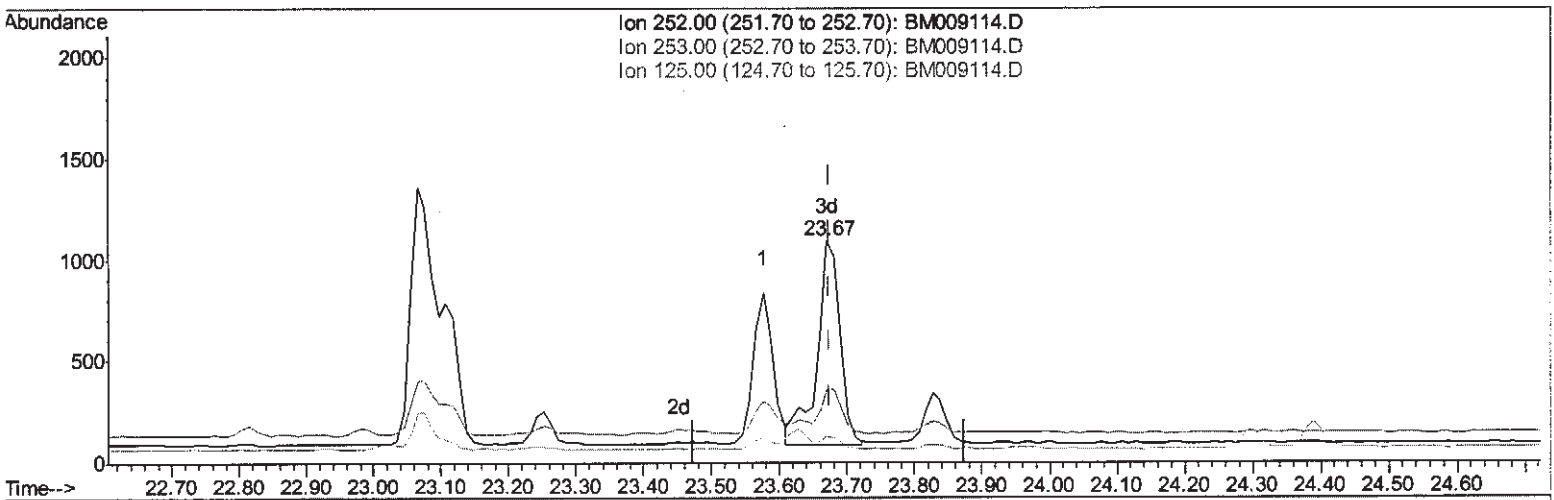
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009114.D
Acq On : 08 Mar 2017 18:05
Operator : SJ/MA
Sample : I2062-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AC8

Manual Integrations
APPROVED

mohammad
3/9/2017 2:01:18 PM

Quant Time: Mar 09 01:32:37 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 01:19:41 2017
Response via : Initial Calibration



(23) Benzo(a)pyrene (C)

23.670min (-0.003) 0.77ng/ul m

response 2400

Ion	Exp%	Act%
252.00	100	100
253.00	35.60	33.00
125.00	22.60	12.12#
0.00	0.00	0.00

SJ
03/16/17

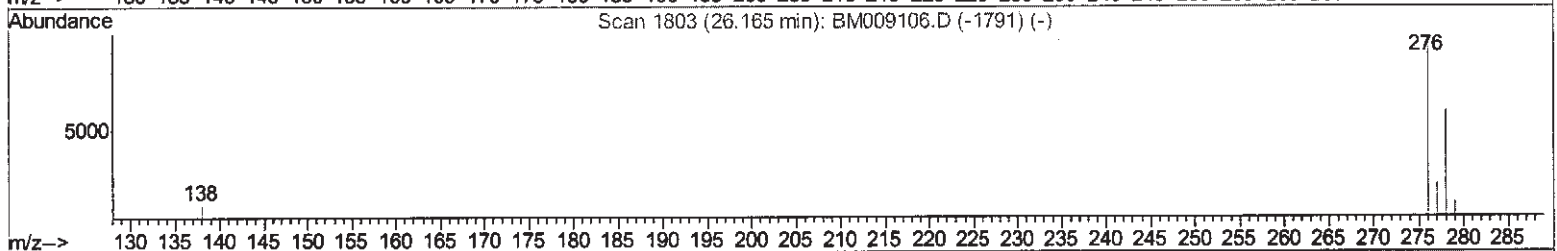
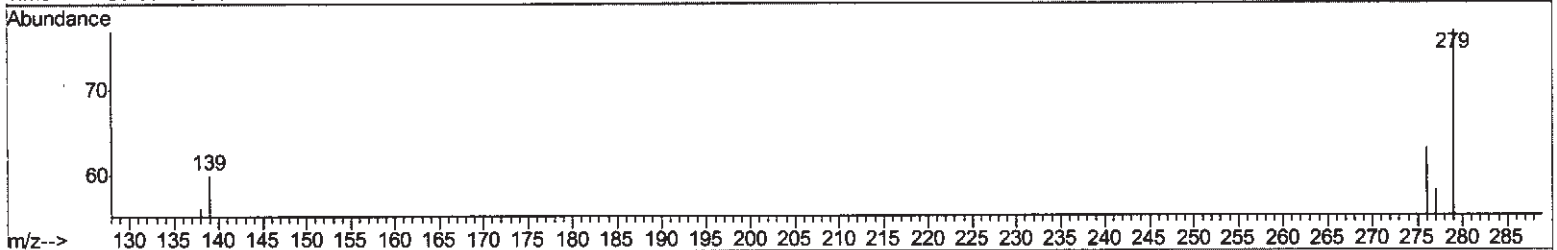
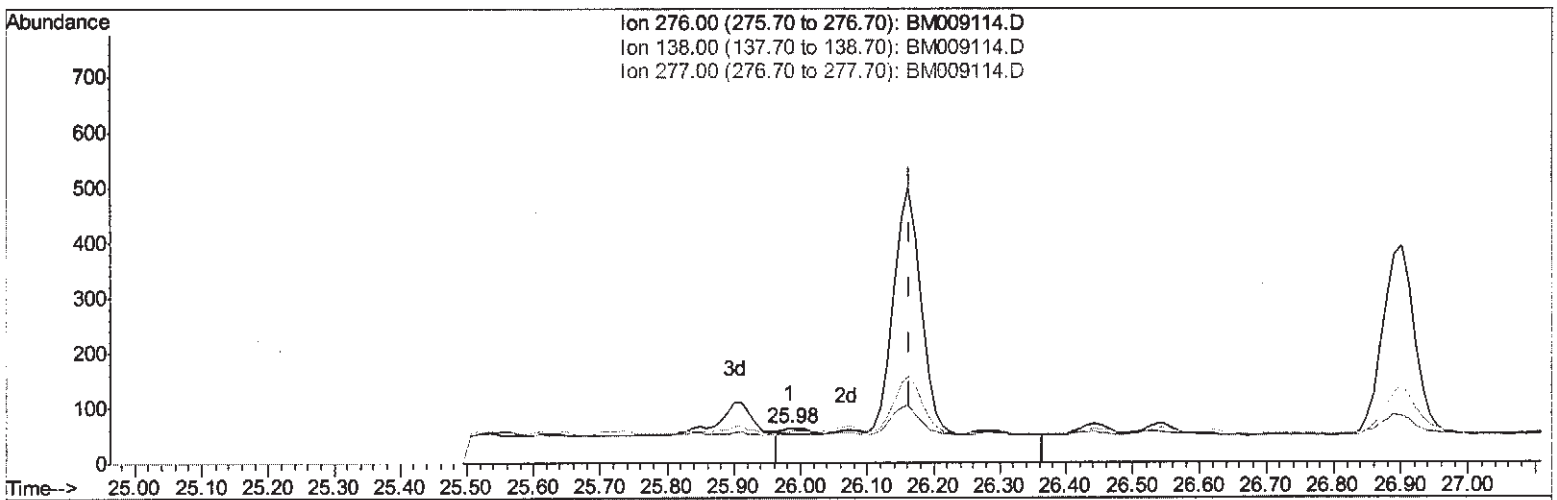
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009114.D
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Operator : SJ/MA
Sample : I2062-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
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Manual Integrations
APPROVED

mohammad
3/9/2017 2:01:18 PM

Quant Time: Mar 09 01:32:37 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 01:19:41 2017
Response via : Initial Calibration



TIC: BM009114.D

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

25.984min (-0.180) 0.01ng/ul

response 23

Ion	Exp%	Act%
276.00	100	100
138.00	23.90	104.35#
277.00	24.50	52.17#
0.00	0.00	0.00

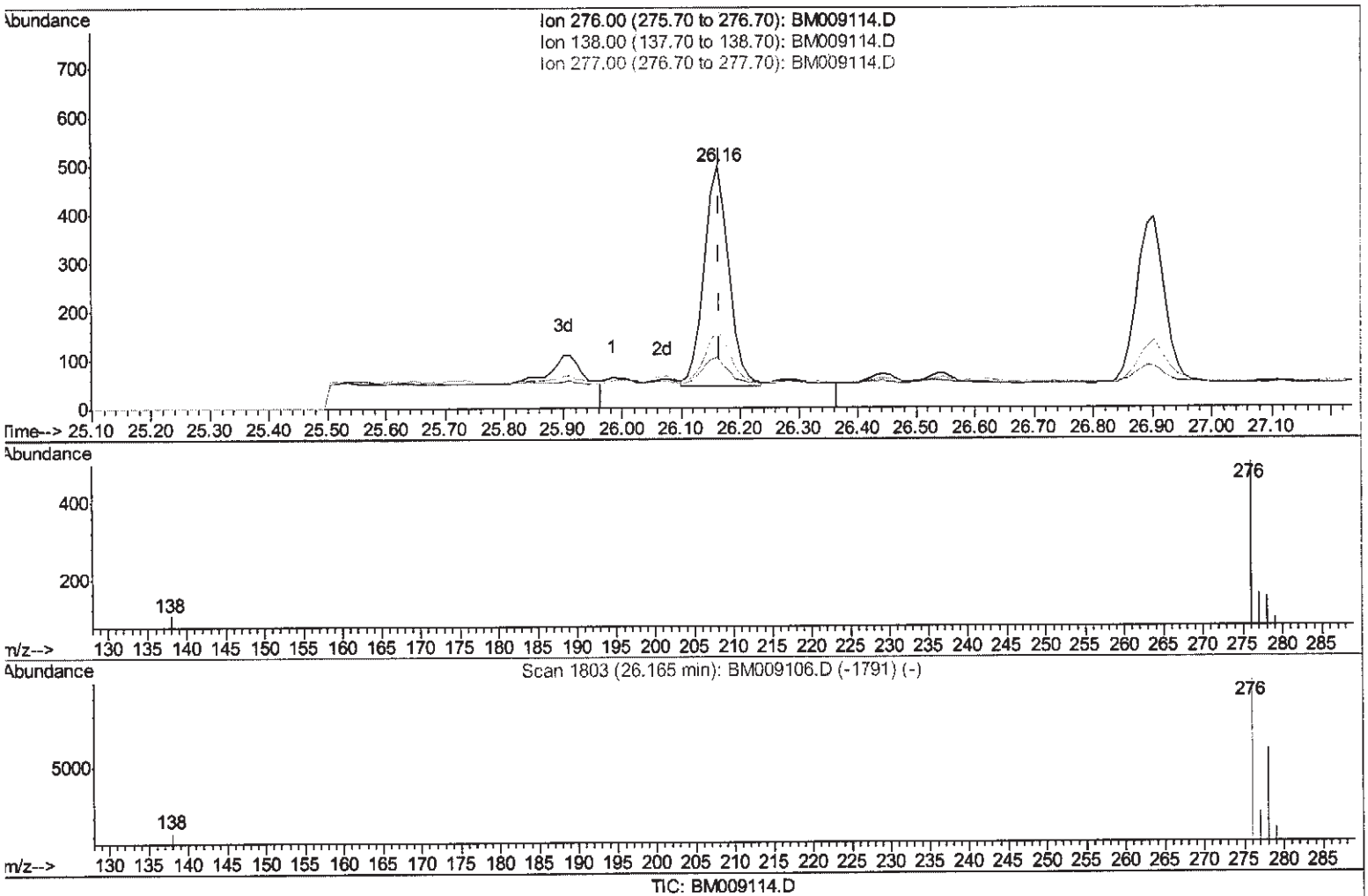
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009114.D
Acq On : 08 Mar 2017 18:05
Operator : SJ/MA
Sample : I2062-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AC8

Manual Integrations
APPROVED

mohammad
3/9/2017 2:01:18 PM

Quant Time: Mar 09 01:32:37 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 01:19:41 2017
Response via : Initial Calibration



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

26.162min (-0.003) 0.33ng/ul m

response 1323

Ion	Exp%	Act%
276.00	100	100
138.00	23.90	1.81#
277.00	24.50	0.91#
0.00	0.00	0.00

> $\frac{0.33}{0.0316117}$

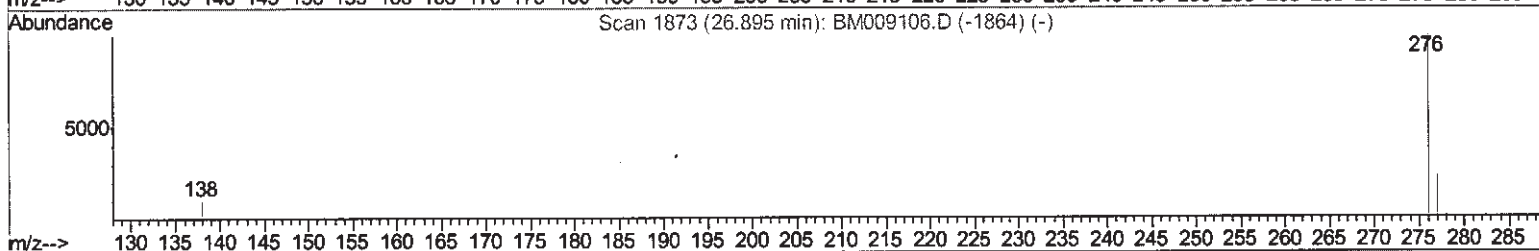
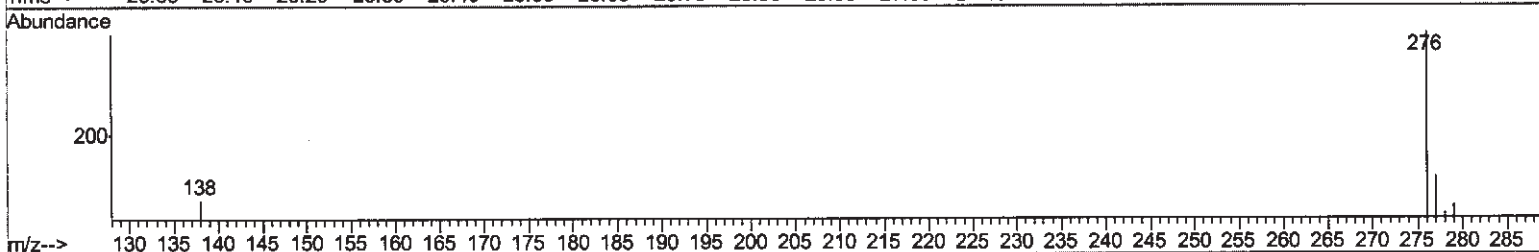
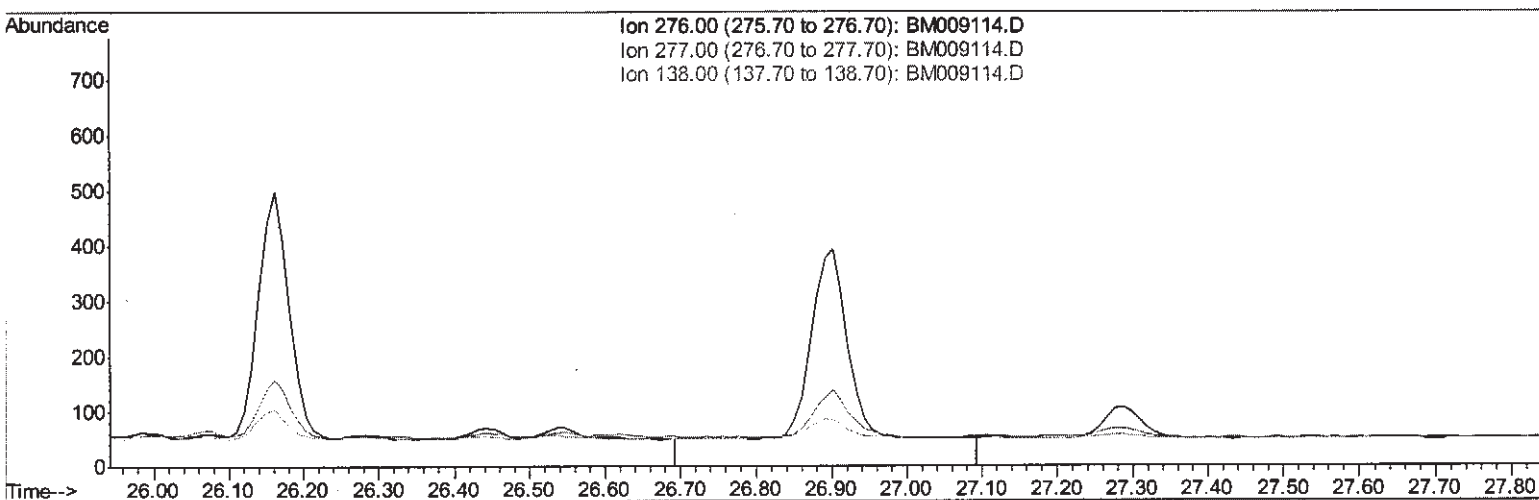
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Data File : BM009114.D
Acq On : 08 Mar 2017 18:05
Operator : SJ/MA
Sample : I2062-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AC8

Manual Integrations
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mohammad
3/9/2017 2:01:18 PM

Quant Time: Mar 09 01:32:37 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 01:19:41 2017
Response via : Initial Calibration



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

26.895min (-26.895) 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

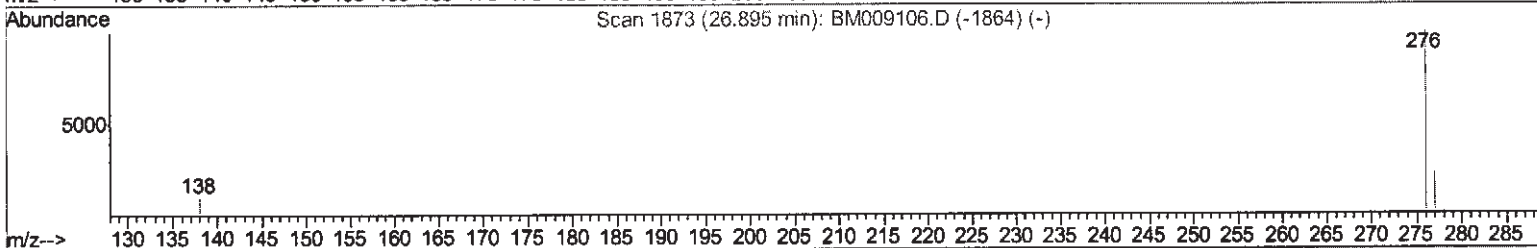
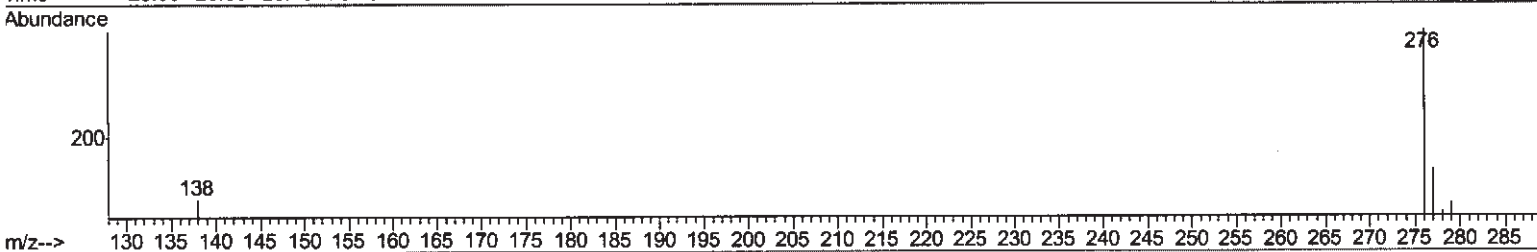
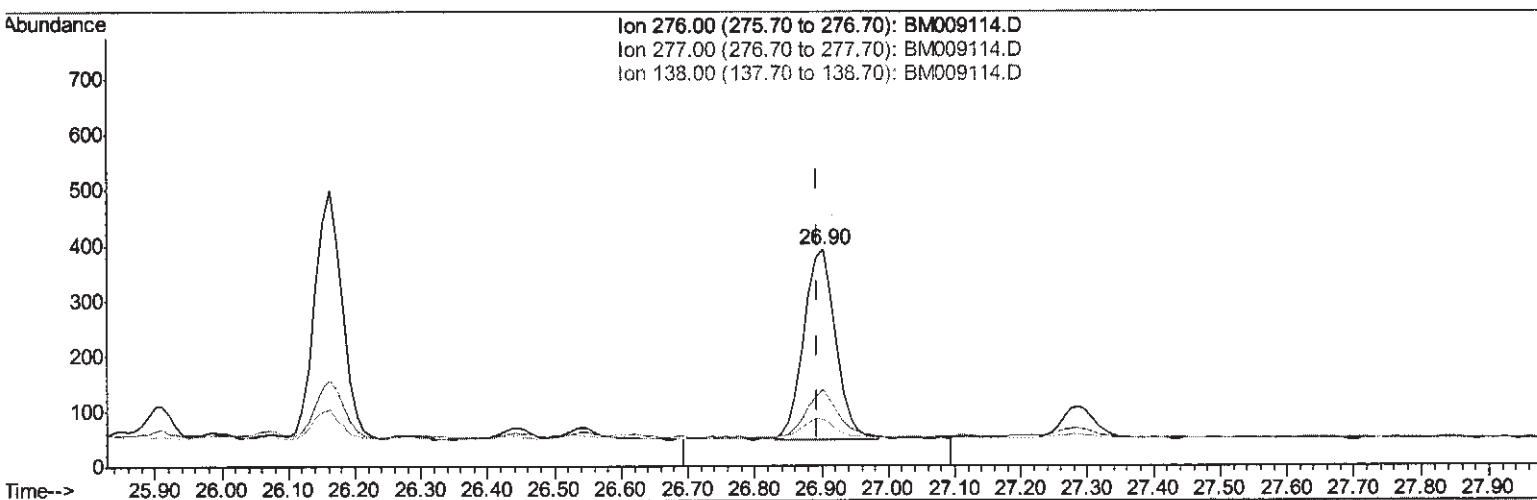
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009114.D
Acq On : 08 Mar 2017 18:05
Operator : SJ/MA
Sample : I2062-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AC8

Manual Integrations
APPROVED

mohammad
3/9/2017 2:01:18 PM

Quant Time: Mar 09 01:32:37 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 01:19:41 2017
Response via : Initial Calibration



TIC: BM009114.D

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

26.902min (+0.007) 0.34ng/ul m

response 1146

Ion	Exp%	Act%
276.00	100	100
277.00	27.30	35.11#
138.00	25.60	21.37
0.00	0.00	0.00

> SJ
03/16/17

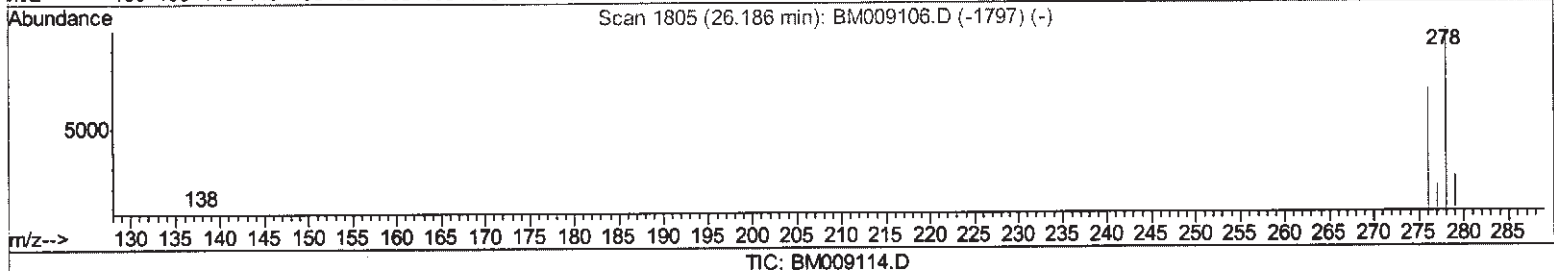
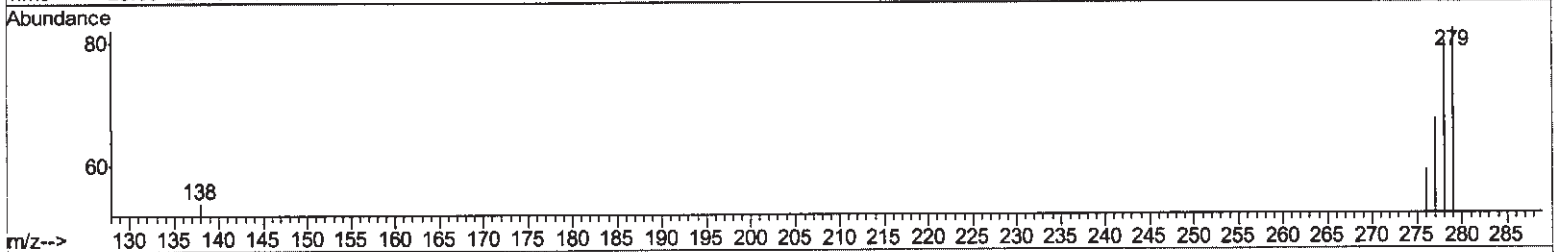
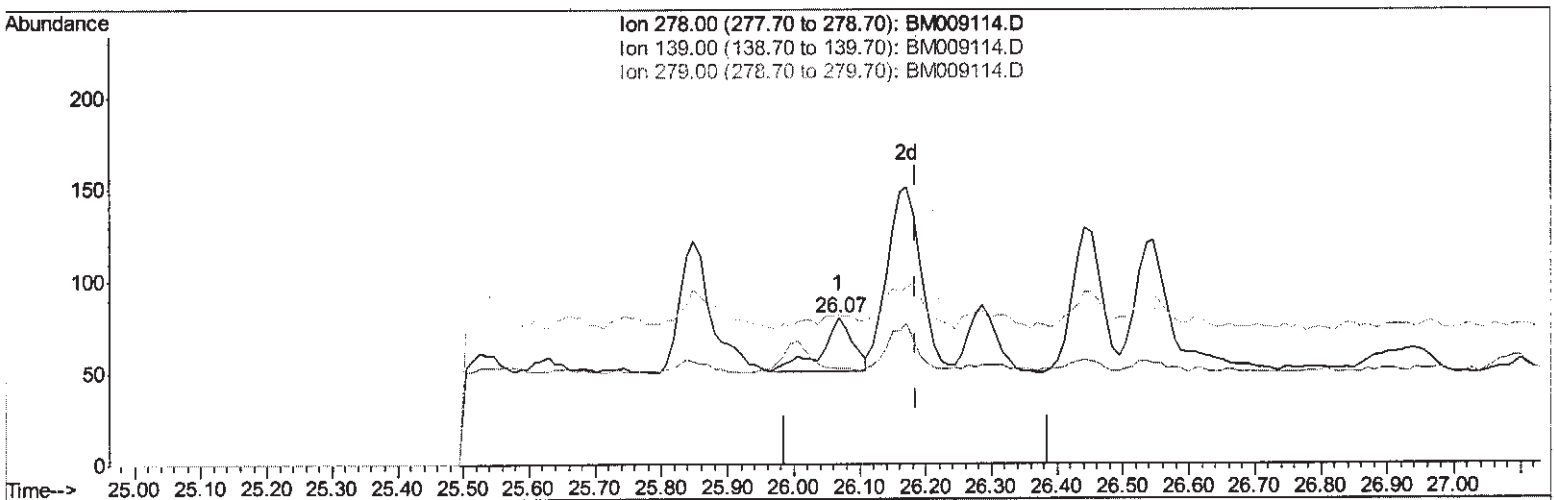
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009114.D
Acq On : 08 Mar 2017 18:05
Operator : SJ/MA
Sample : I2062-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AC8

Manual Integrations
APPROVED

mohammad
3/9/2017 2:01:18 PM

Quant Time: Mar 09 01:34:43 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 01:19:41 2017
Response via : Initial Calibration



TIC: BM009114.D

(25) Dibenzo(a,h)anthracene

26.068min (-0.118) 0.03ng/ui

response 99

Ion	Exp%	Act%
278.00	100	100
139.00	21.70	65.00#
279.00	32.40	102.50#
0.00	0.00	0.00

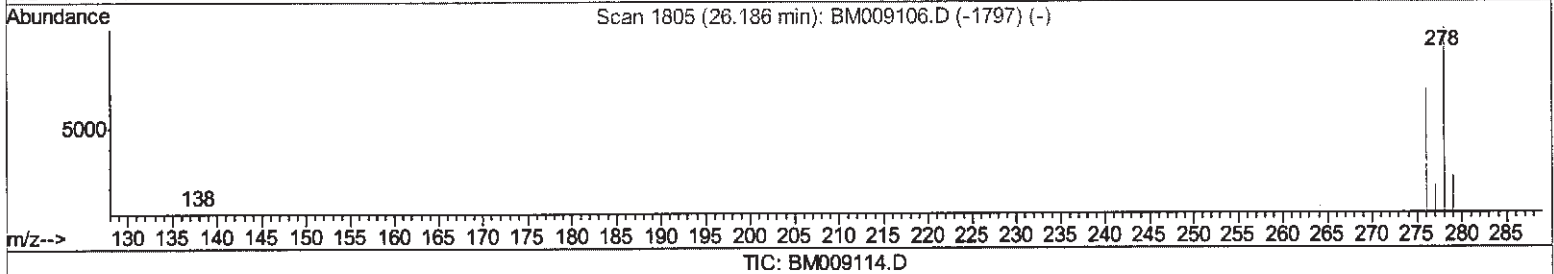
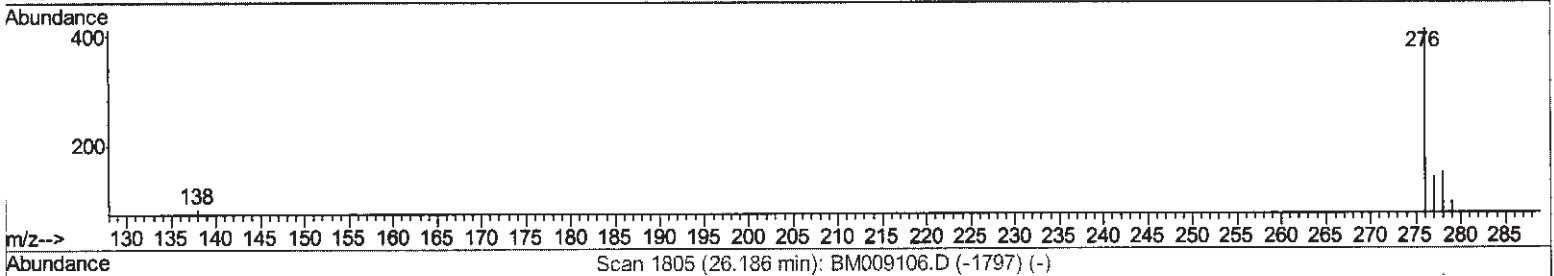
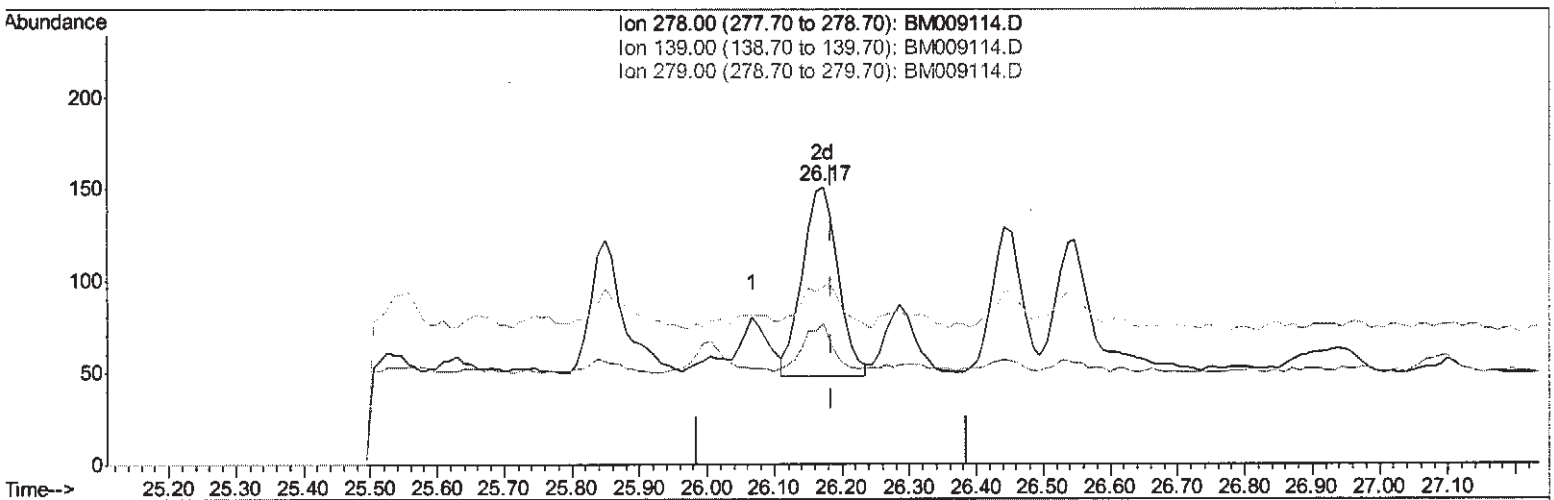
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
Data File : BM009114.D
Acq On : 08 Mar 2017 18:05
Operator : SJ/MA
Sample : I2062-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AC8

Manual Integrations
APPROVED

mohammad
3/9/2017 2:01:18 PM

Quant Time: Mar 09 01:34:43 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 01:19:41 2017
Response via : Initial Calibration



(25) Dibenzo(a,h)anthracene

26.172min (-0.014) 0.11ng/ul m

response 377

Ion	Exp%	Act%
278.00	100	100
139.00	21.70	50.99#
279.00	32.40	64.24#
0.00	0.00	0.00

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Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030817\
 Data File : BM009114.D
 Acq On : 08 Mar 2017 18:05
 Operator : SJ/MA
 Sample : I2062-07
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AC8

Manual Integrations
 APPROVED

mohammad
 3/9/2017 2:01:18 PM

Quant Time: Mar 09 01:36:48 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 01:19:41 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.88	152	217	0.40	ng/ul	-0.02
2) Naphthalene-d8	10.69	136	668	0.40	ng/ul	0.00
6) Acenaphthene-d10	14.52	164	389	0.40	ng/ul	0.00
10) Phenanthrene-d10	17.26	188	981m	0.40	ng/ul	0.00
16) Chrysene-d12	21.45	240	977	0.40	ng/ul	0.00
20) Perylene-d12	23.78	264	879m	0.40	ng/ul	0.00

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System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Methylnaphthalene-d10	12.28	152	304	0.27	ng/ul	0.00
14) Fluoranthene-d10	19.30	212	805	0.26	ng/ul	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) Phenanthrene	17.31	178	604m	0.20	ng/ul	
15) Fluoranthene	19.33	202	1424	0.35	ng/ul	95
17) Pyrene	19.69	202	1563	0.47	ng/ul	96
18) Benzo(a)anthracene	21.43	228	1744	0.54	ng/ul	96
19) Chrysene	21.48	228	2056	0.67	ng/ul	97
21) Benzo(b)fluoranthene	23.07	252	3184m	0.92	ng/ul	
22) Benzo(k)fluoranthene	23.11	252	1258m	0.41	ng/ul	
23) Benzo(a)pyrene	23.67	252	2400m	0.77	ng/ul	
24) Indeno(1,2,3-cd)pyrene	26.16	276	1323m	0.33	ng/ul	
25) Dibenzo(a,h)anthracene	26.17	278	377m	0.11	ng/ul	
26) Benzo(g,h,i)perylene	26.90	276	1146m	0.34	ng/ul	

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