

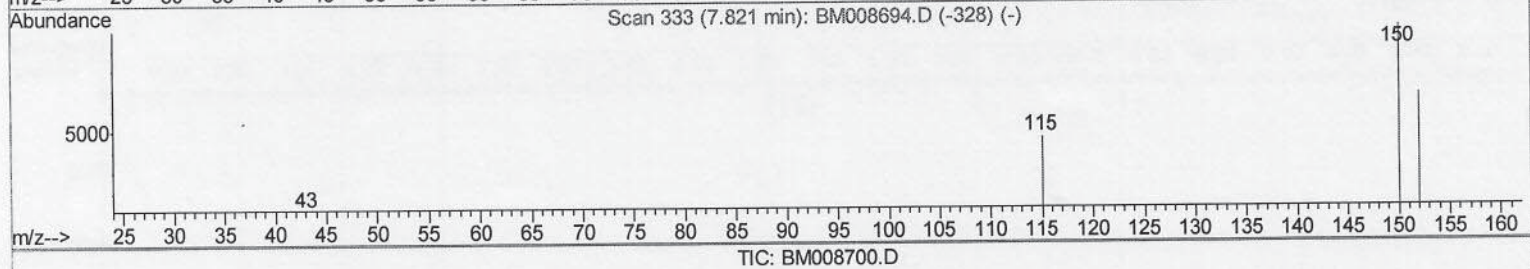
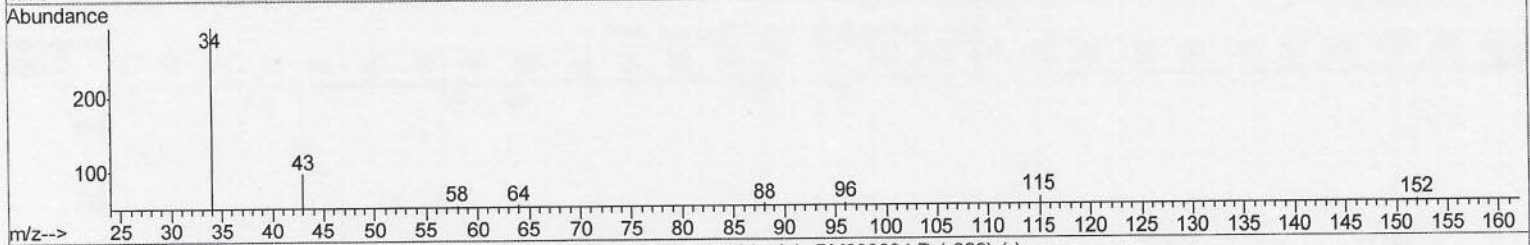
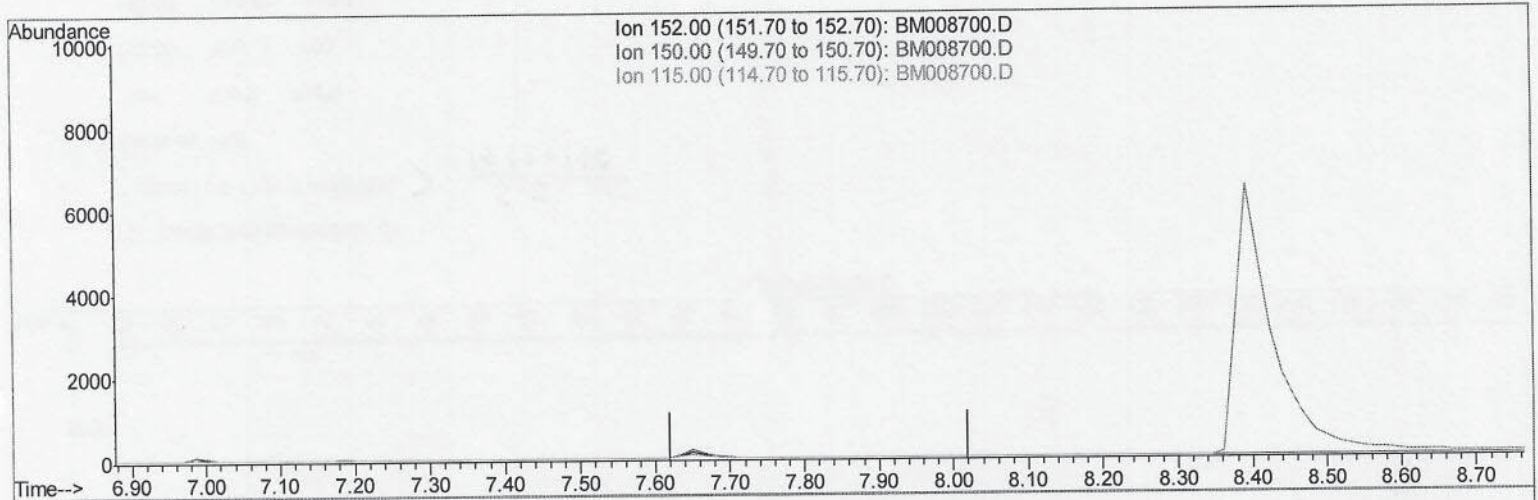
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
 Data File : BM008700.D
 Acq On : 28 Dec 2016 19:08
 Operator : UM/SJ
 Sample : H6067-17
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA7H3

Quant Time: Dec 29 03:33:29 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 29 03:29:39 2016
 Response via : Initial Calibration

Manual Integrations
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(1) 1,4-Dichlorobenzene-d4 (I)

7.821min (-7.821) 0.00ng/ul

response 0

Ion	Exp%	Act%
152.00	100	0.00
150.00	143.40	0.00#
115.00	64.90	0.00#
0.00	0.00	0.00

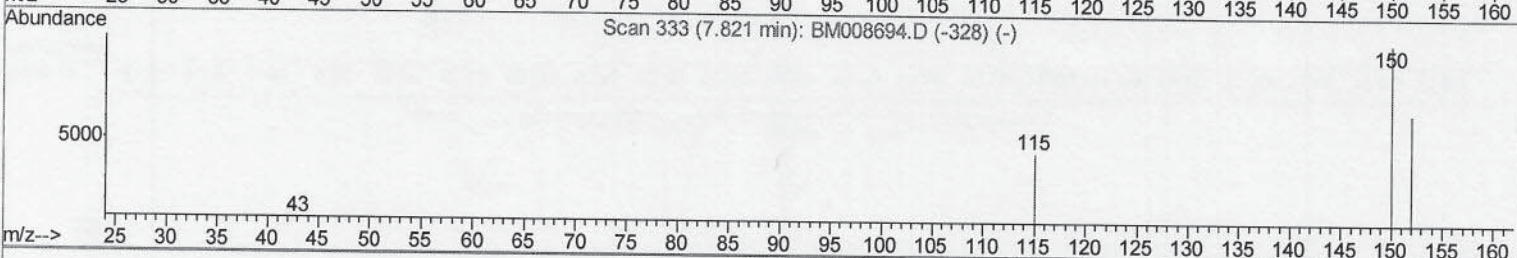
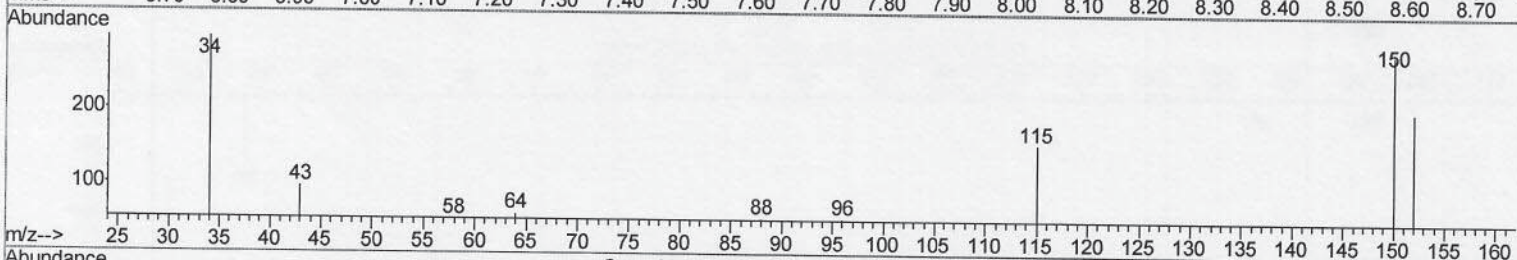
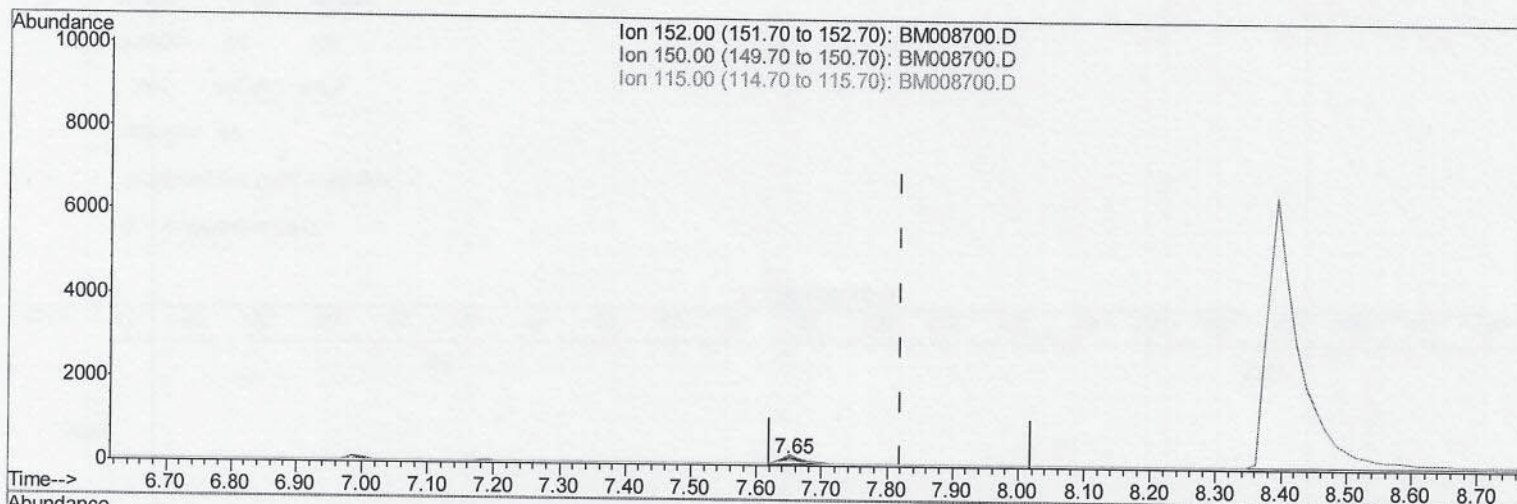
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
 Data File : BM008700.D
 Acq On : 28 Dec 2016 19:08
 Operator : UM/SJ
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Instrument :
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 ClientSampleId :
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TIC: BM008700.D

(1) 1,4-Dichlorobenzene-d4 (I)

7.650min (-0.170) 0.40ng/ul m

> $\frac{S.J}{12/30/16}$

response 378

Ion	Exp%	Act%
152.00	100	100
150.00	143.40	137.75
115.00	64.90	76.96
0.00	0.00	0.00

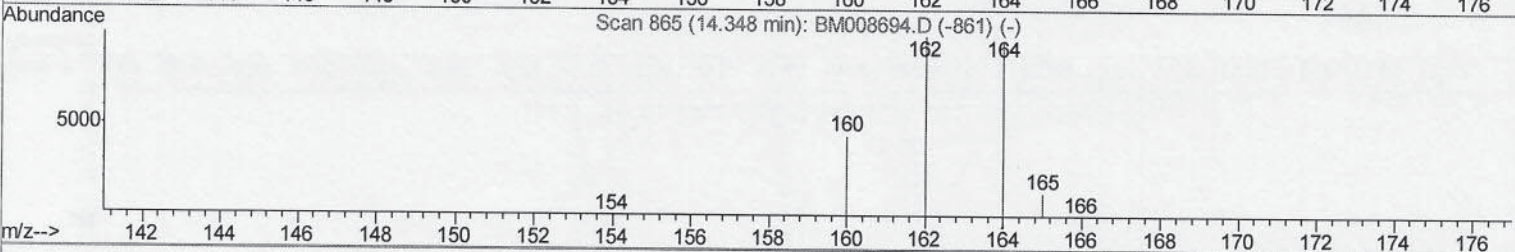
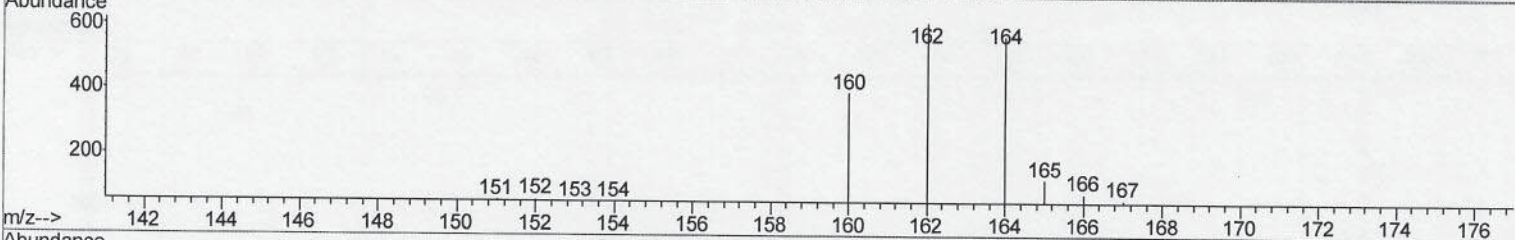
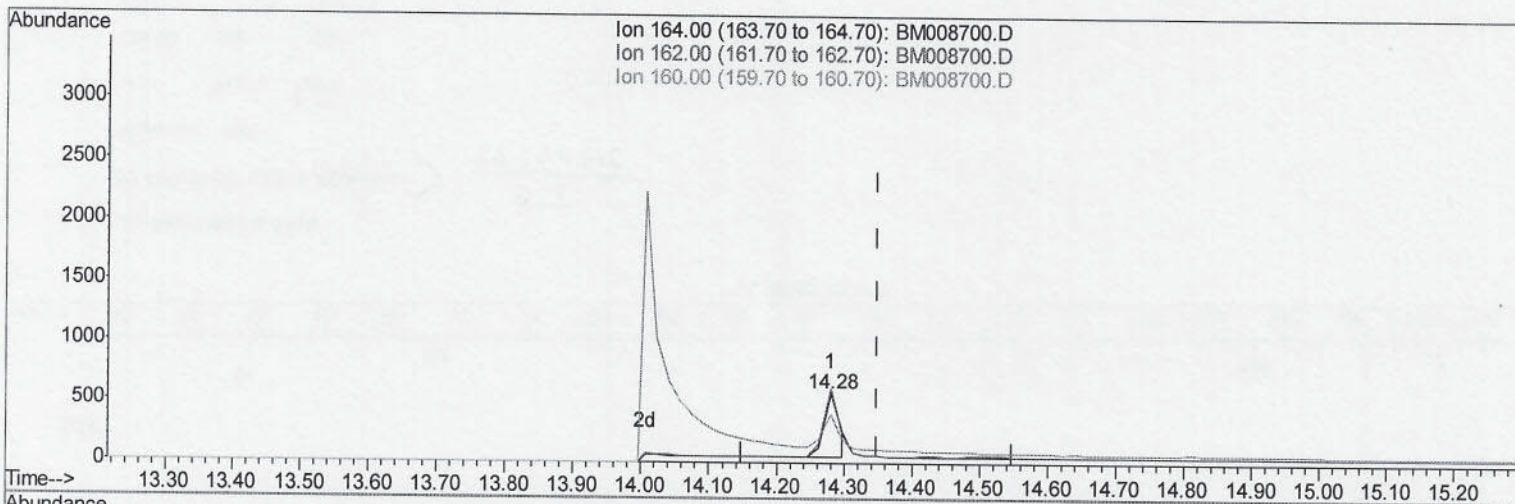
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
 Data File : BM008700.D
 Acq On : 28 Dec 2016 19:08
 Operator : UM/SJ
 Sample : H6067-17
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA7H3

Quant Time: Dec 29 03:33:29 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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Manual Integrations
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TIC: BM008700.D

(6) Acenaphthene-d10 (I)
 14.280min (-0.069) 0.40ng/ul
 response 829

Ion	Exp%	Act%
164.00	100	100
162.00	98.60	107.33
160.00	48.80	68.76#
0.00	0.00	0.00

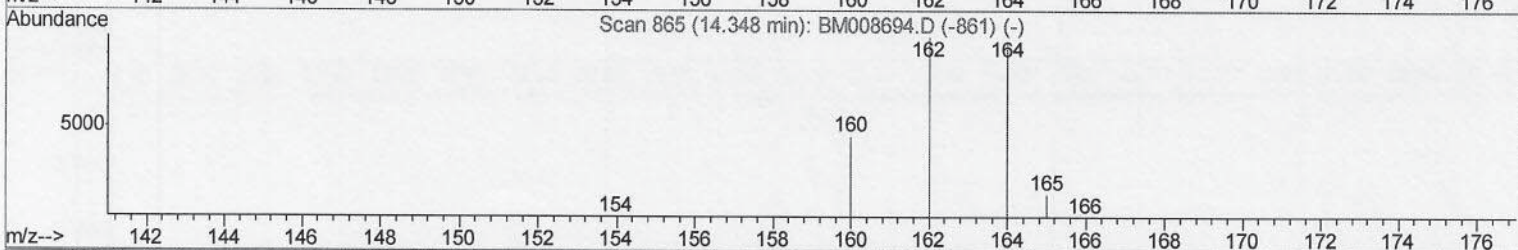
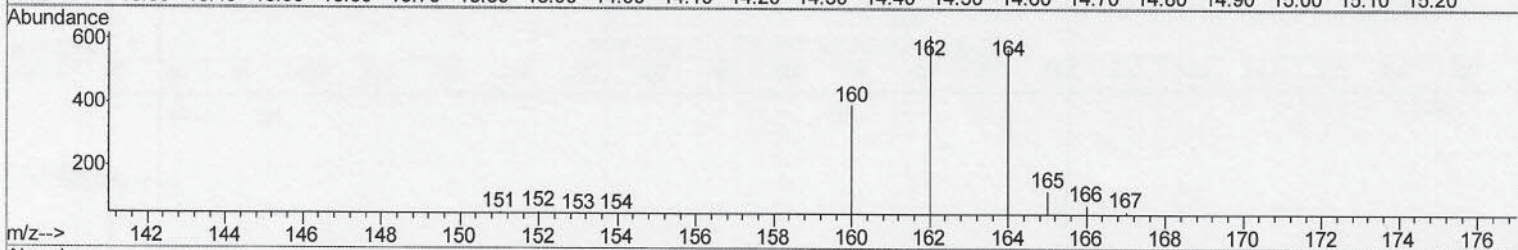
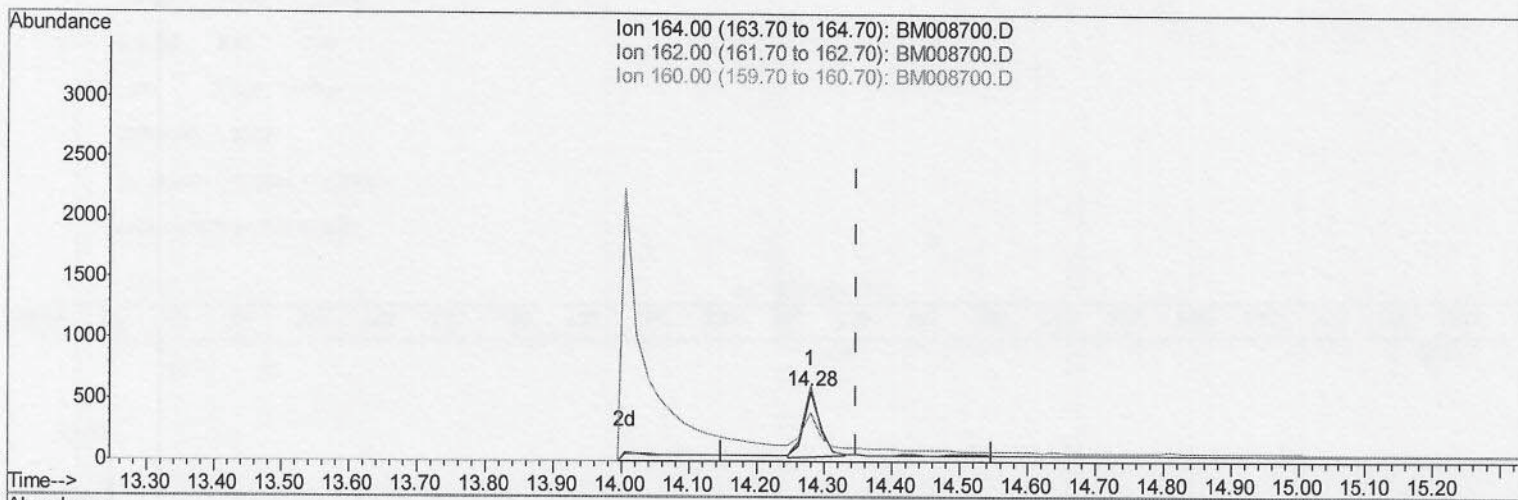
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
 Data File : BM008700.D
 Acq On : 28 Dec 2016 19:08
 Operator : UM/SJ
 Sample : H6067-17
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA7H3

Quant Time: Dec 29 03:33:29 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 29 03:29:39 2016
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Manual Integrations
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TIC: BM008700.D

(6) Acenaphthene-d10 (I)

14.280min (-0.069) 0.40ng/ul m

> $\frac{S-J}{12/30/16}$

response 918

Ion	Exp%	Act%
164.00	100	100
162.00	98.60	107.33
160.00	48.80	68.76#
0.00	0.00	0.00

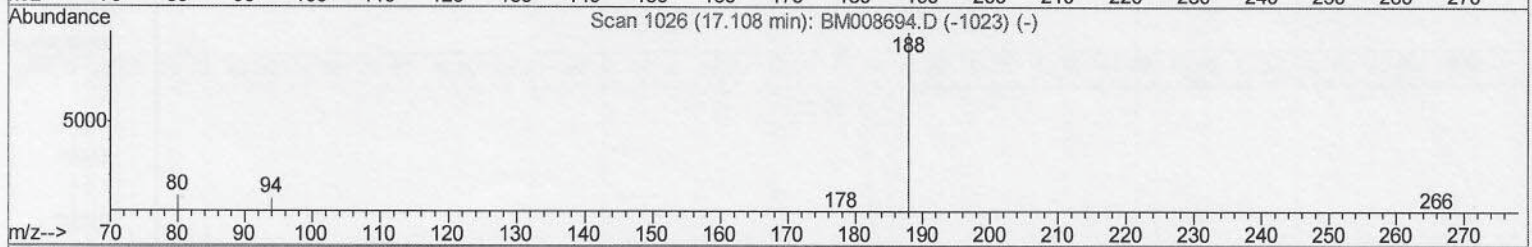
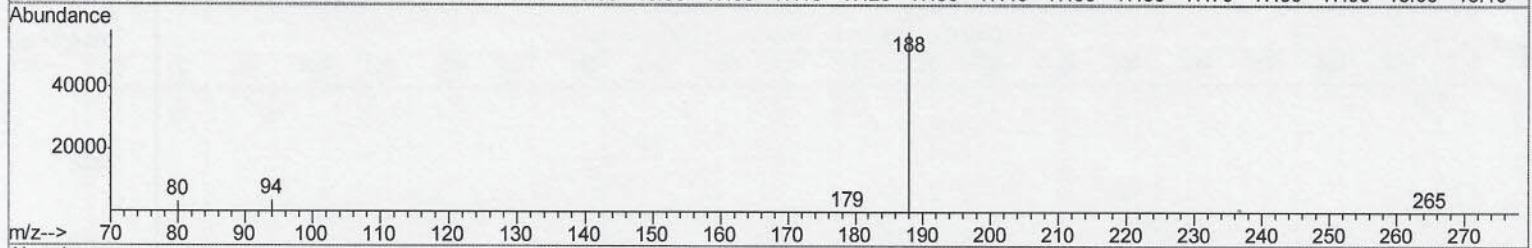
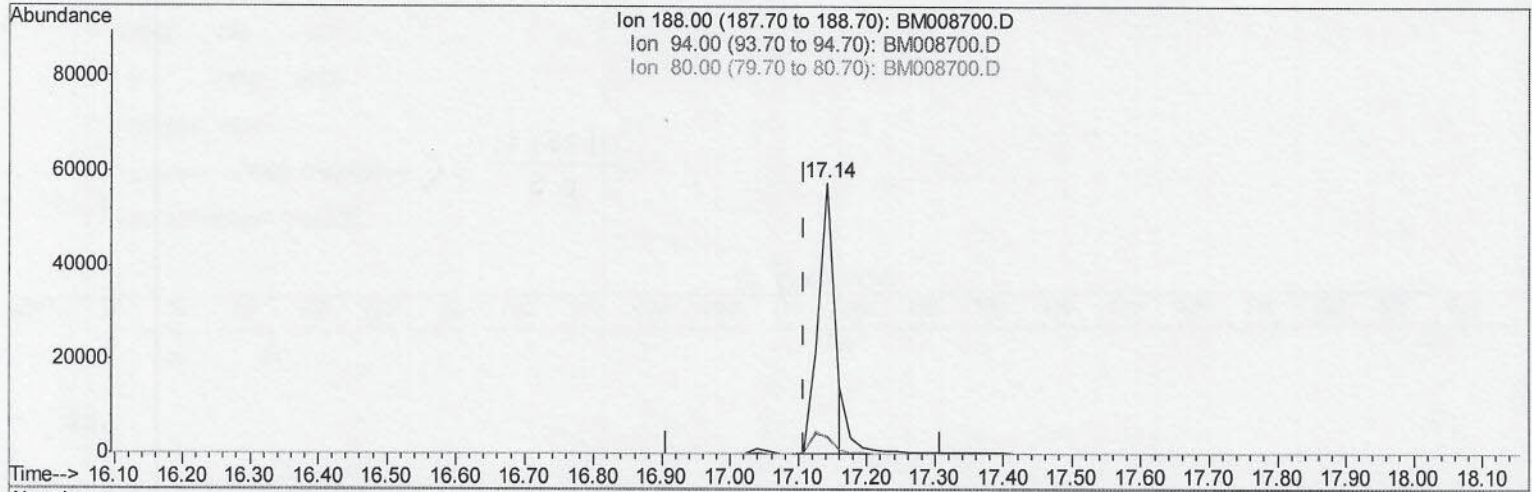
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008700.D
Acq On : 28 Dec 2016 19:08
Operator : UM/SJ
Sample : H6067-17
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
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Quant Time: Dec 29 03:33:29 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

Manual Integrations
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TIC: BM008700.D

(10) Phenanthrene-d10 (I)
17.142min (+0.034) 0.40ng/ul
response 96485

Ion	Exp%	Act%
188.00	100	100
94.00	11.00	6.48#
80.00	11.80	5.82#
0.00	0.00	0.00

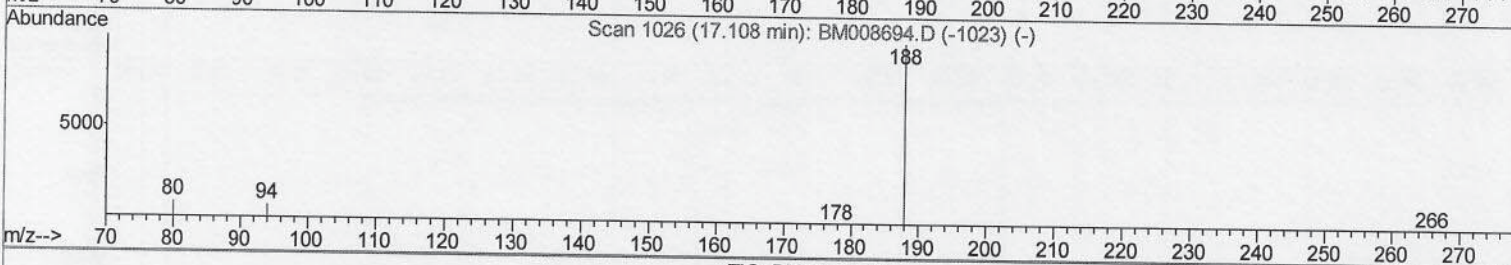
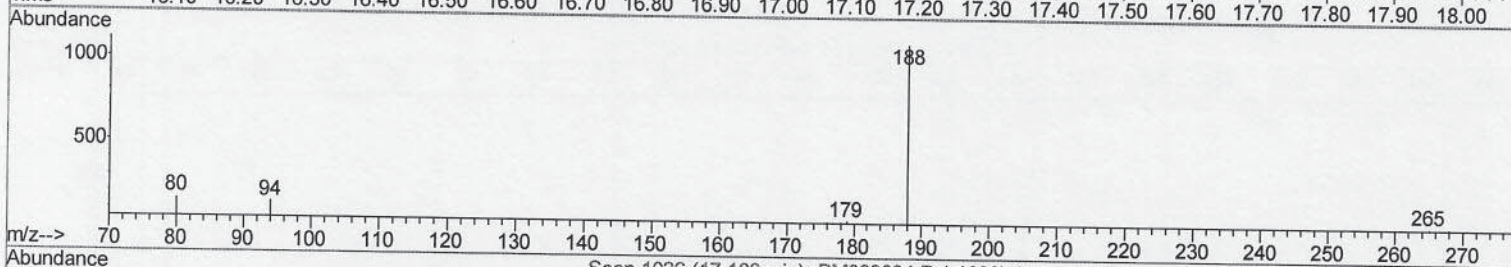
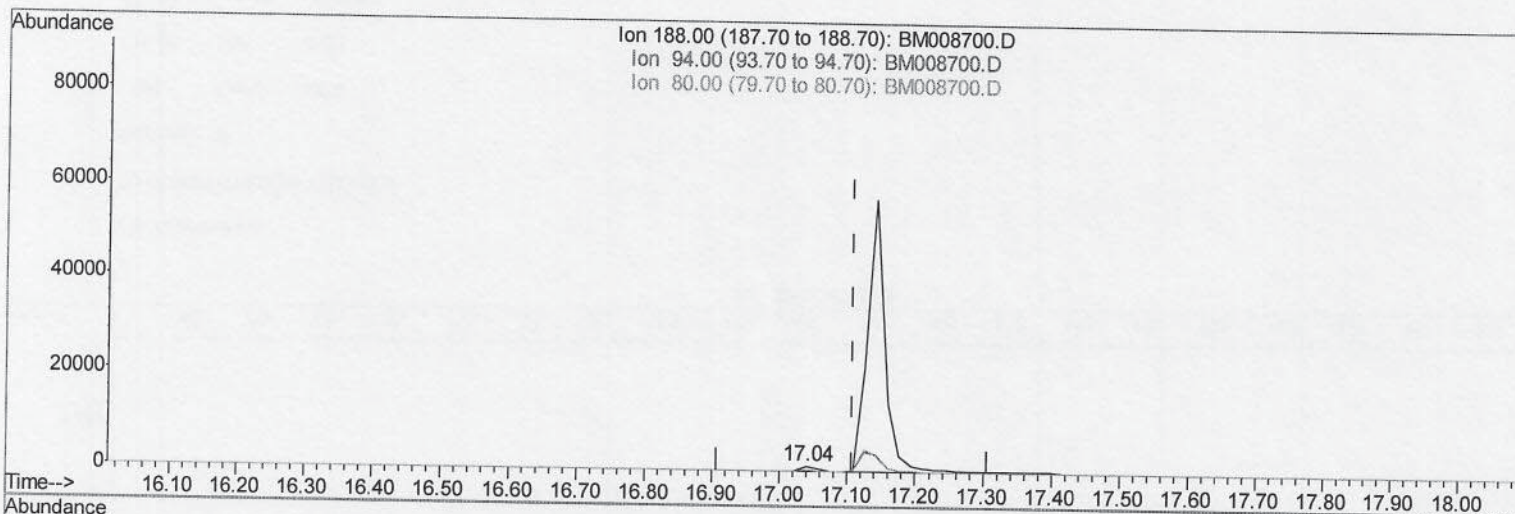
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
 Data File : BM008700.D
 Acq On : 28 Dec 2016 19:08
 Operator : UM/SJ
 Sample : H6067-17
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA7H3

Quant Time: Dec 29 03:33:29 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 29 03:29:39 2016
 Response via : Initial Calibration

Manual Integrations
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TIC: BM008700.D

(10) Phenanthrene-d10 (I)

17.039min (-0.069) 0.40ng/ul m

S.J
 12/30/16

response 1741

Ion	Exp%	Act%
188.00	100	100
94.00	11.00	12.72
80.00	11.80	14.16
0.00	0.00	0.00

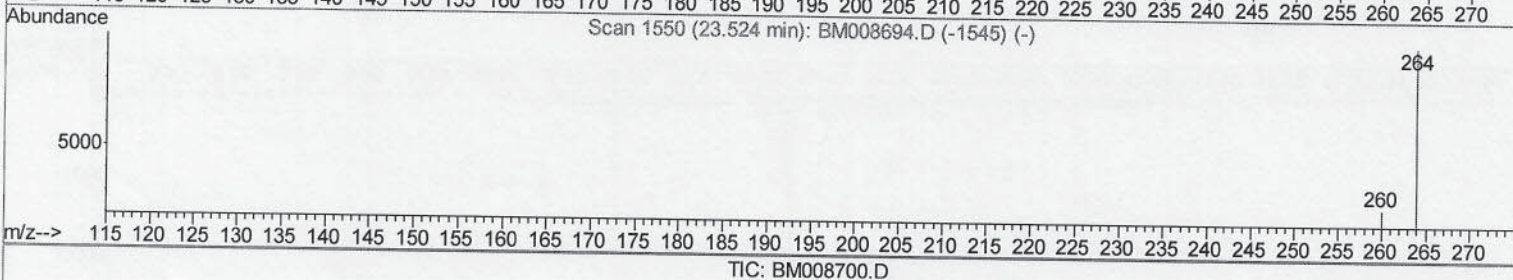
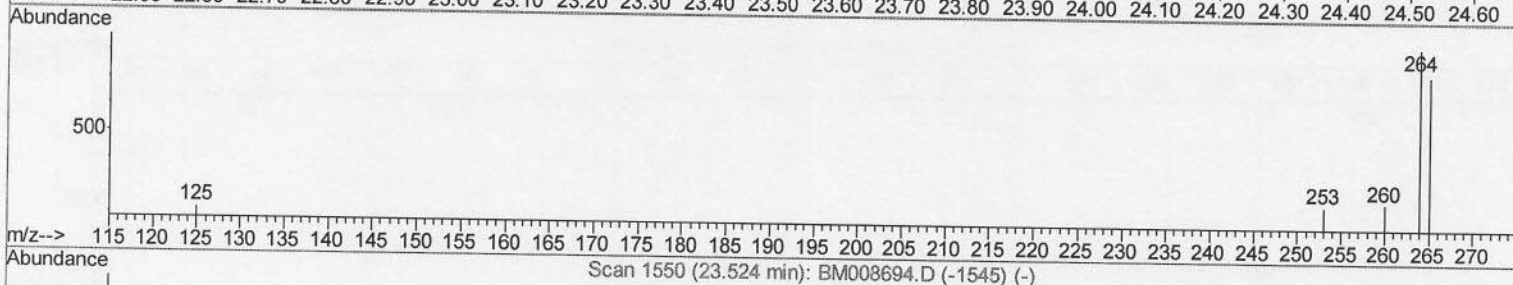
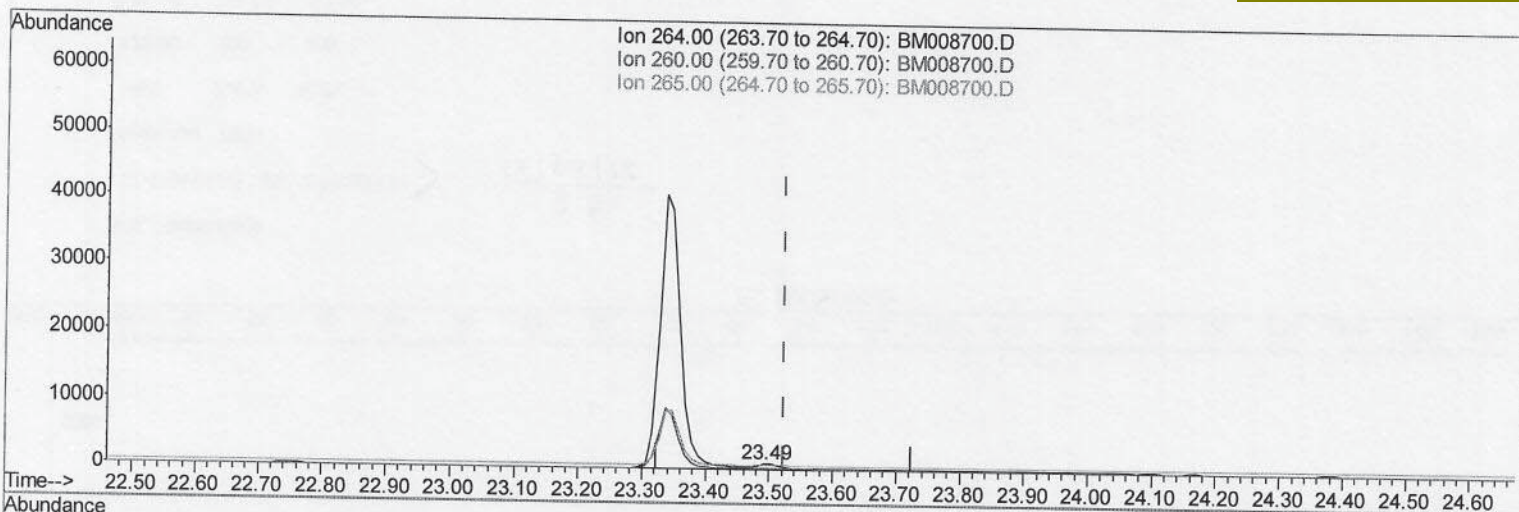
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
 Data File : BM008700.D
 Acq On : 28 Dec 2016 19:08
 Operator : UM/SJ
 Sample : H6067-17
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA7H3

Quant Time: Dec 29 03:33:29 2016
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(20) Perylene-d12 (I)

23.493min (-0.031) 0.40ng/ul

response 2164

Ion	Exp%	Act%
264.00	100	100
260.00	30.10	32.51
265.00	103.50	88.19
0.00	0.00	0.00

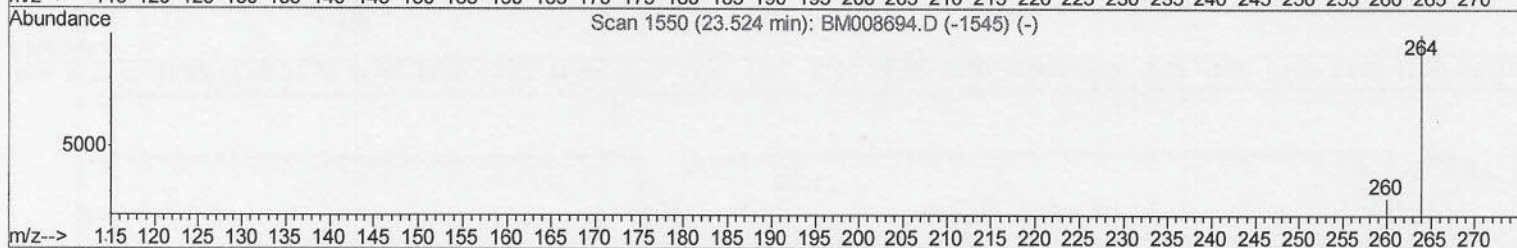
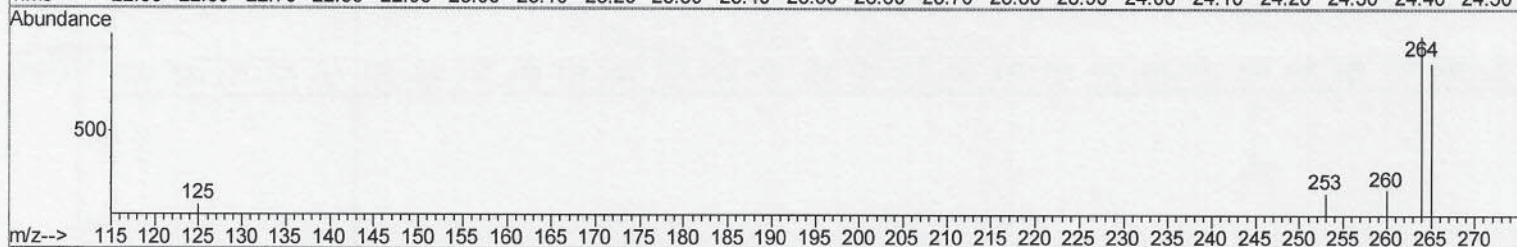
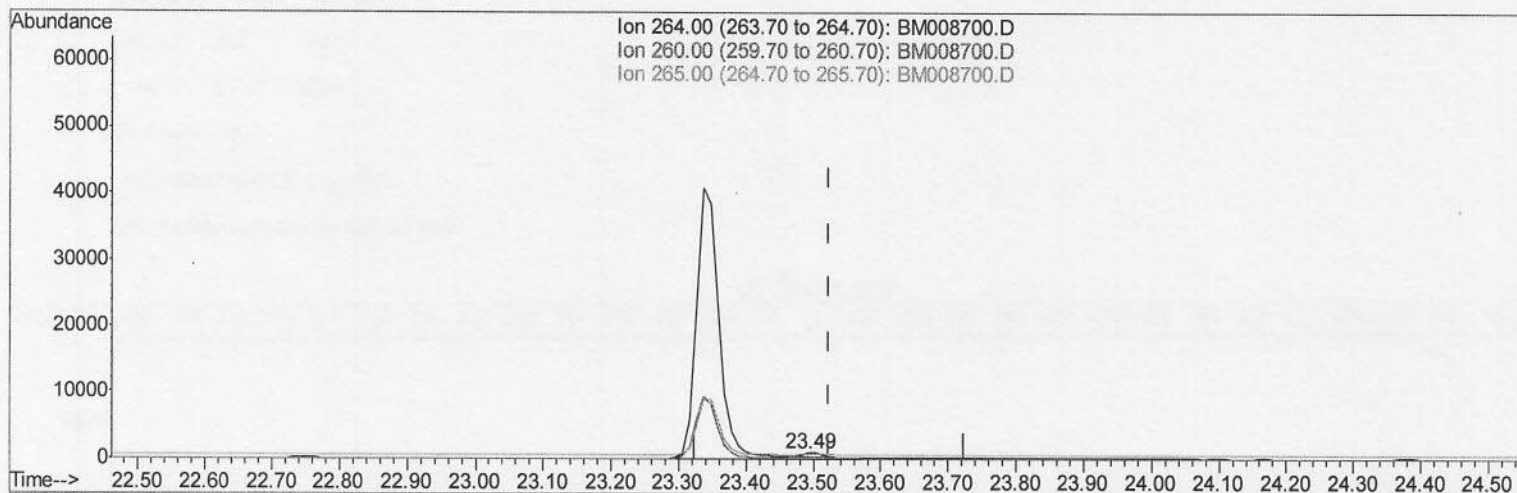
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
 Data File : BM008700.D
 Acq On : 28 Dec 2016 19:08
 Operator : UM/SJ
 Sample : H6067-17
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA7H3

Quant Time: Dec 29 03:33:29 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 29 03:29:39 2016
 Response via : Initial Calibration

Manual Integrations
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TIC: BM008700.D

(20) Perylene-d12 (I)

23.493min (-0.031) 0.40ng/ul m

$\frac{5.5}{12/30/16}$

response 1375

Ion	Exp%	Act%
264.00	100	100
260.00	30.10	32.51
265.00	103.50	88.19
0.00	0.00	0.00

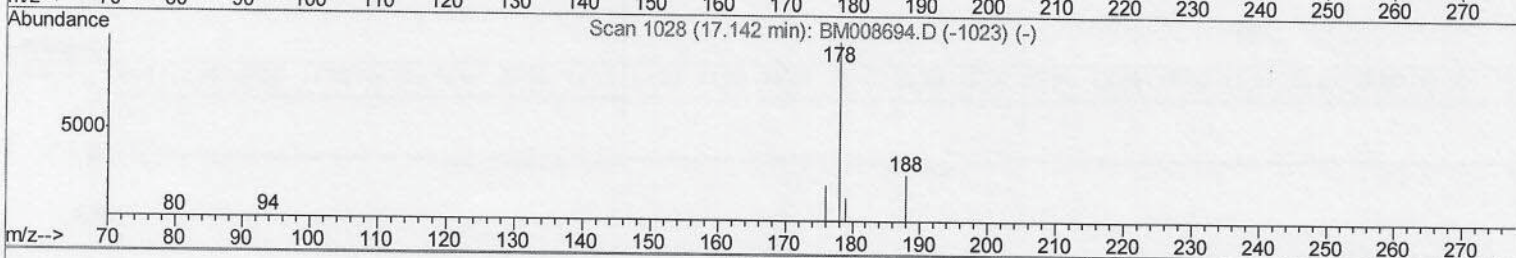
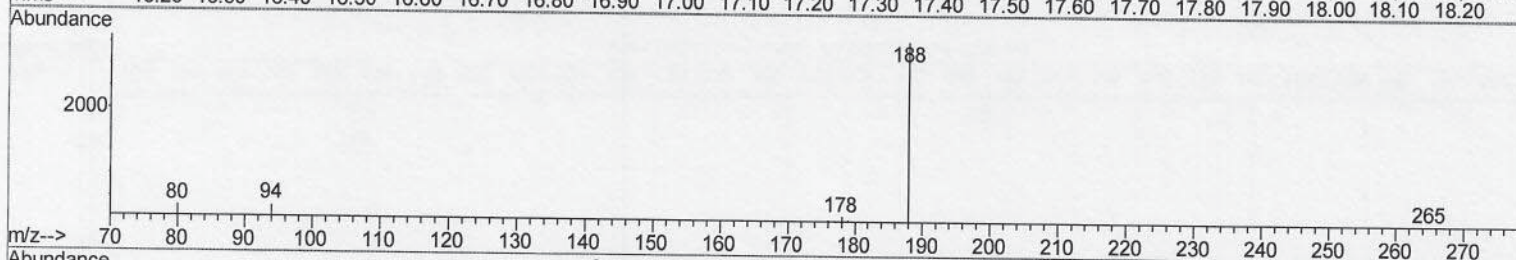
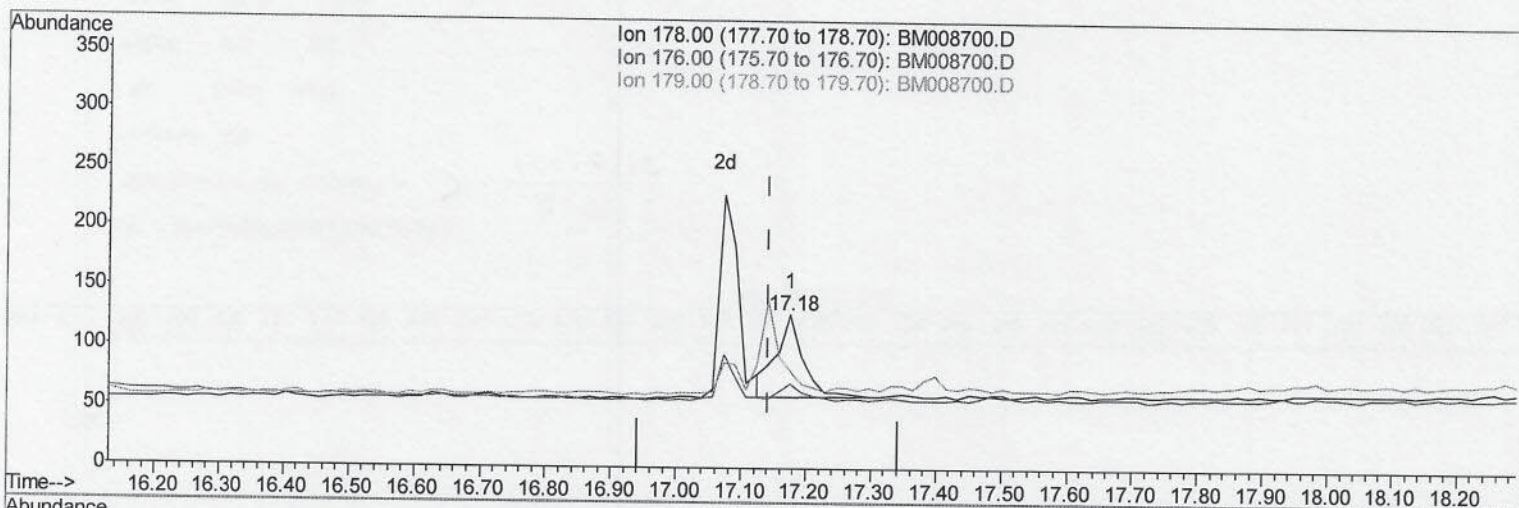
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 Data File : BM008700.D
 Acq On : 28 Dec 2016 19:08
 Operator : UM/SJ
 Sample : H6067-17
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA7H3

Quant Time: Dec 29 04:15:46 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 29 03:29:39 2016
 Response via : Initial Calibration

Manual Integrations
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TIC: BM008700.D

(12) Phenanthrene

17.176min (+0.034) 0.04ng/ul

response 203

Ion	Exp%	Act%
178.00	100	100
176.00	23.00	55.04#
179.00	17.00	62.79#
0.00	0.00	0.00

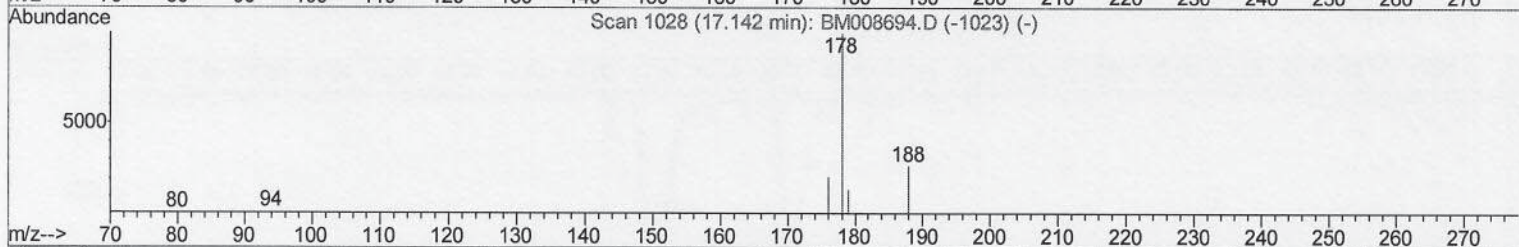
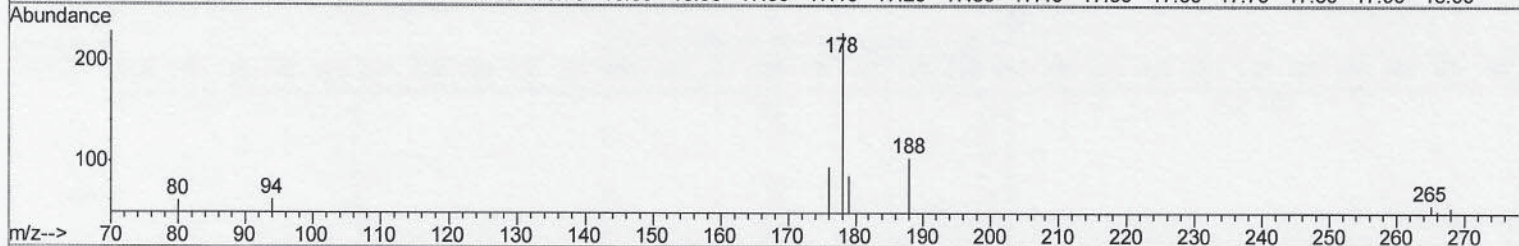
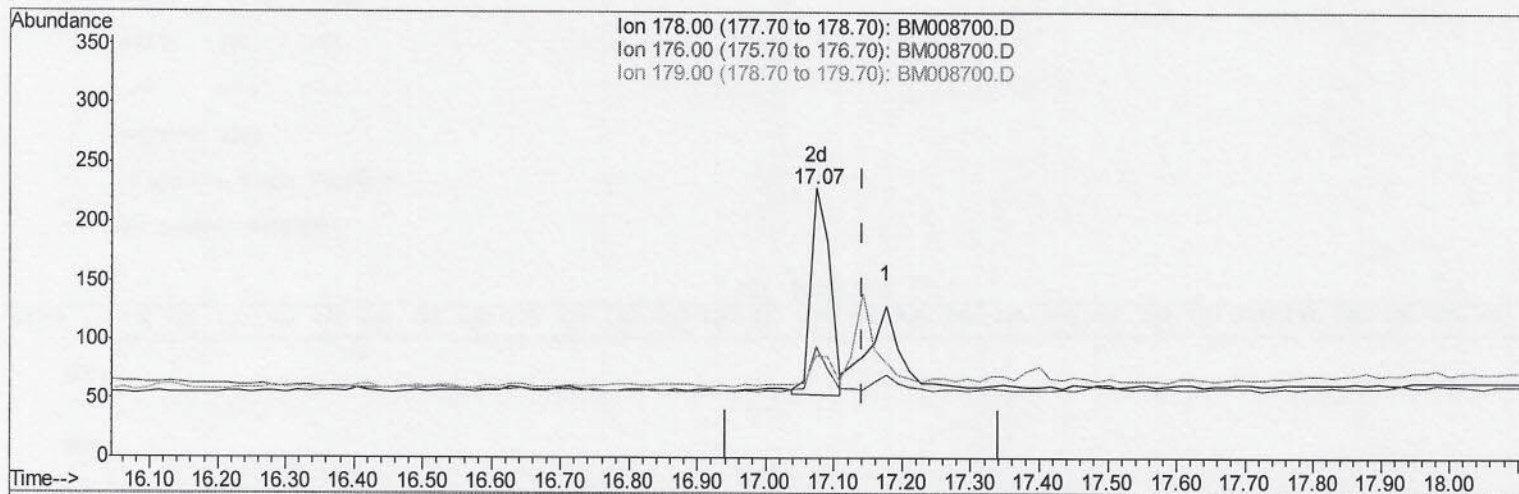
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
 Data File : BM008700.D
 Acq On : 28 Dec 2016 19:08
 Operator : UM/SJ
 Sample : H6067-17
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA7H3

Quant Time: Dec 29 04:15:46 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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(12) Phenanthrene

17.073min (-0.069) 0.07ng/ul m

> $\frac{9.5}{12/30/16}$

response 348

Ion	Exp%	Act%
178.00	100	100
176.00	23.00	41.48#
179.00	17.00	37.99#
0.00	0.00	0.00

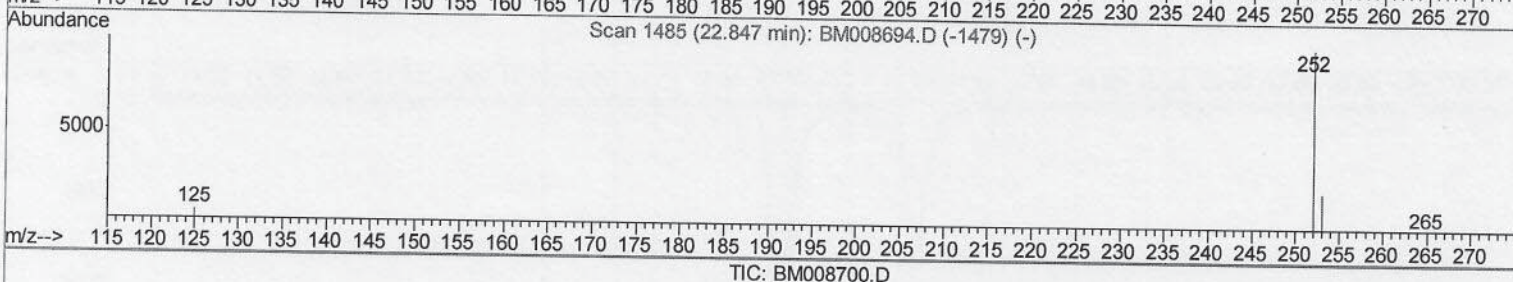
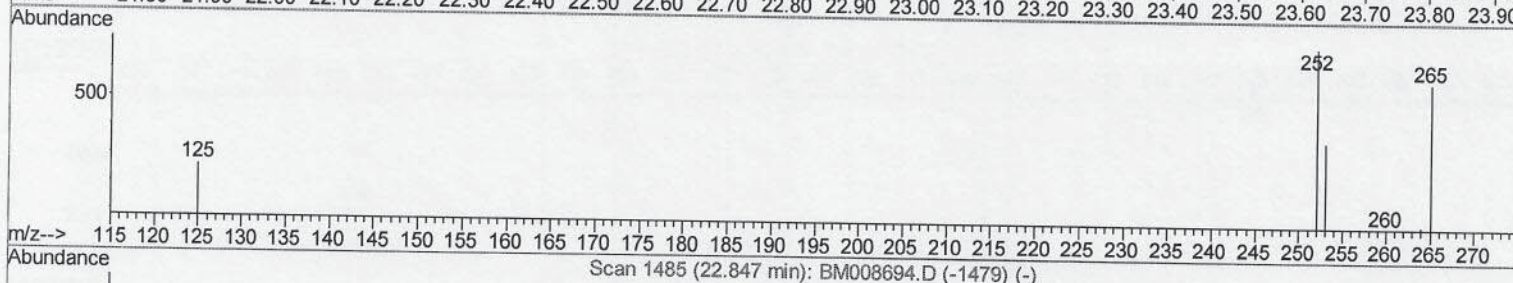
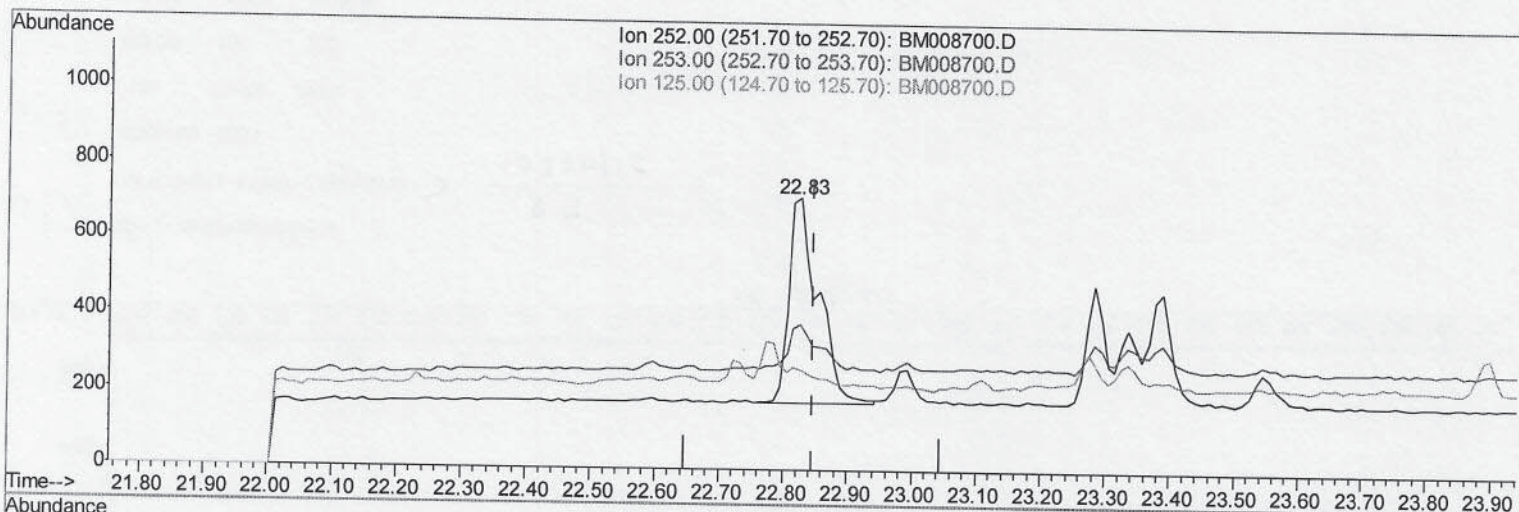
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
 Data File : BM008700.D
 Acq On : 28 Dec 2016 19:08
 Operator : UM/SJ
 Sample : H6067-17
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA7H3

Quant Time: Dec 29 04:15:46 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
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(21) Benzo(b)fluoranthene

22.826min (-0.021) 0.32ng/ul

response 1713

Ion	Exp%	Act%
252.00	100	100
253.00	32.10	53.22
125.00	17.50	36.83#
0.00	0.00	0.00

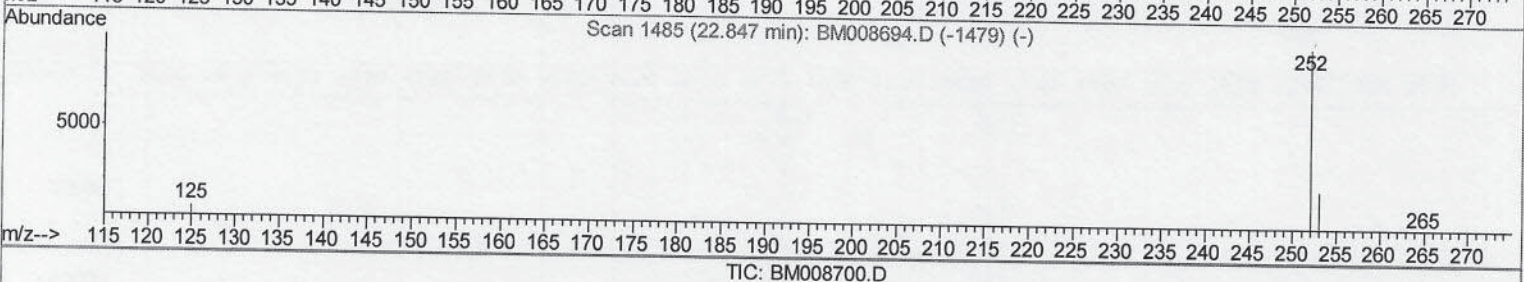
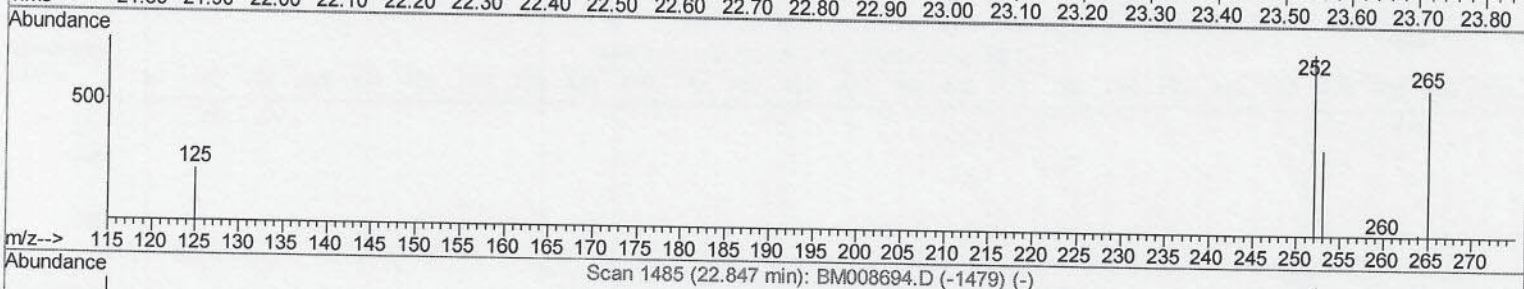
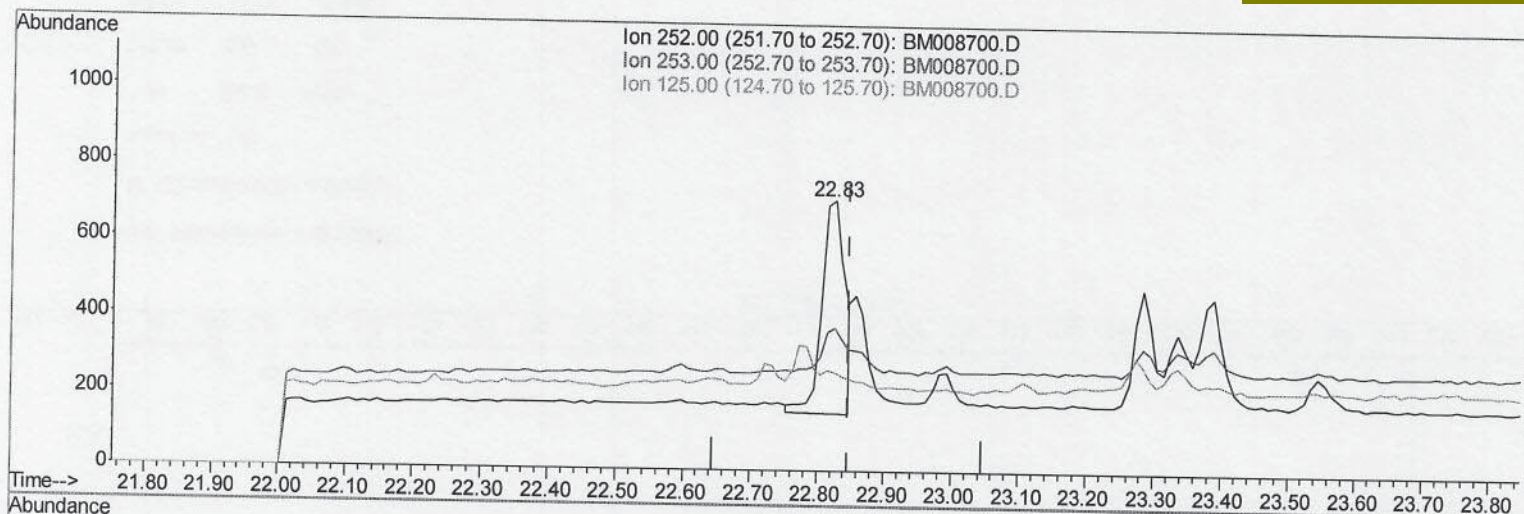
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
 Data File : BM008700.D
 Acq On : 28 Dec 2016 19:08
 Operator : UM/SJ
 Sample : H6067-17
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA7H3

Quant Time: Dec 29 04:15:46 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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Manual Integrations
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(21) Benzo(b)fluoranthene

22.826min (-0.021) 0.25ng/ul m > $\frac{S.J}{12/30/16}$
 response 1372

Ion	Exp%	Act%
252.00	100	100
253.00	32.10	53.22
125.00	17.50	36.83#
0.00	0.00	0.00

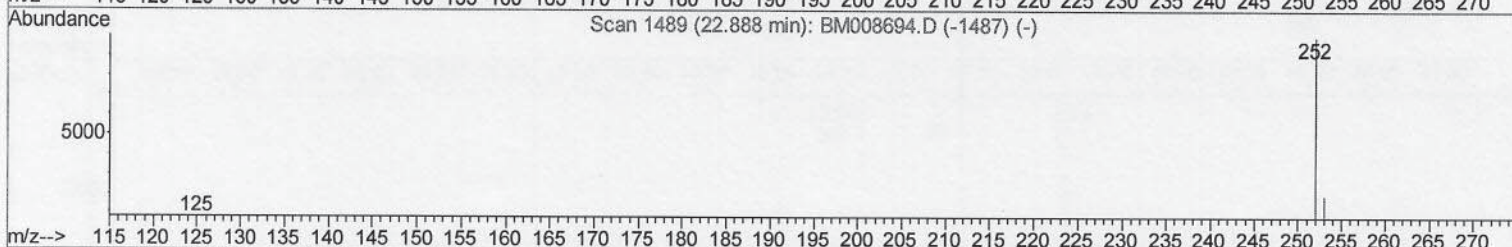
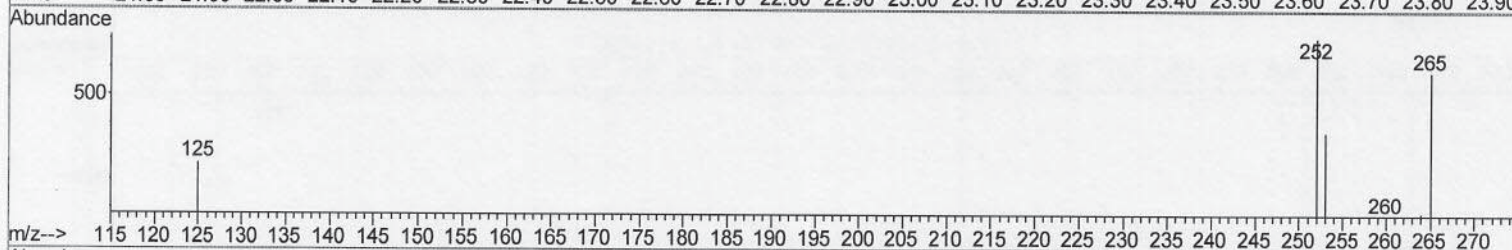
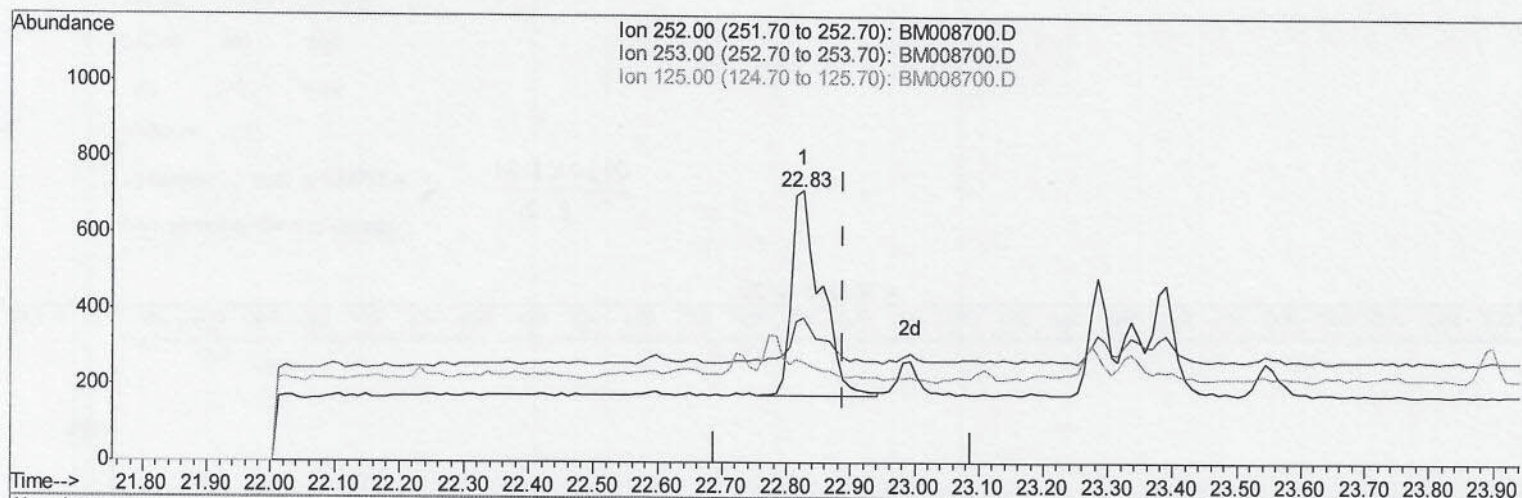
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
 Data File : BM008700.D
 Acq On : 28 Dec 2016 19:08
 Operator : UM/SJ
 Sample : H6067-17
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA7H3

Quant Time: Dec 29 04:15:46 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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Manual Integrations
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TIC: BM008700.D

(22) Benzo(k)fluoranthene
 22.826min (-0.063) 0.32ng/ul
 response 1713

Ion	Exp%	Act%
252.00	100	100
253.00	30.60	53.22#
125.00	17.10	36.83#
0.00	0.00	0.00

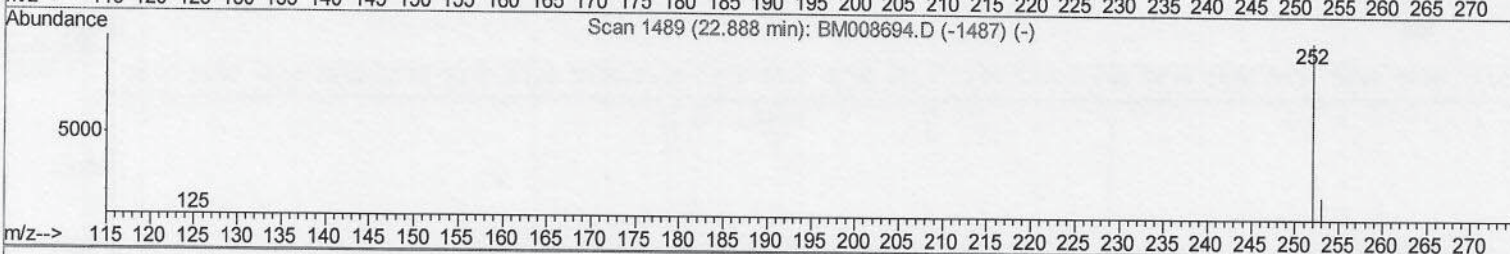
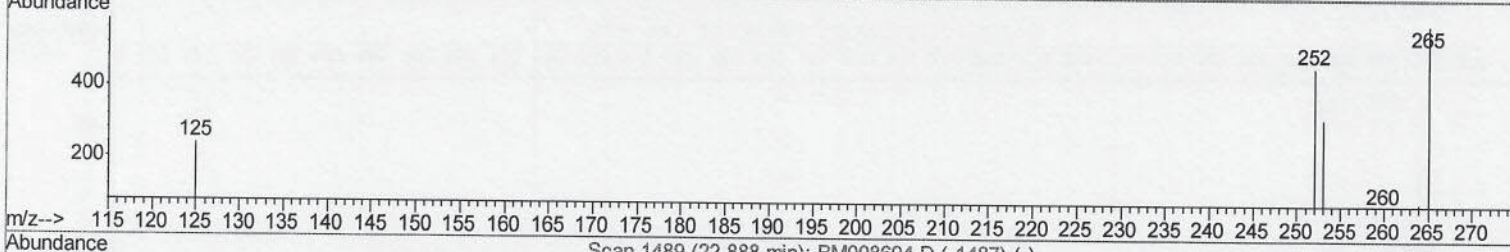
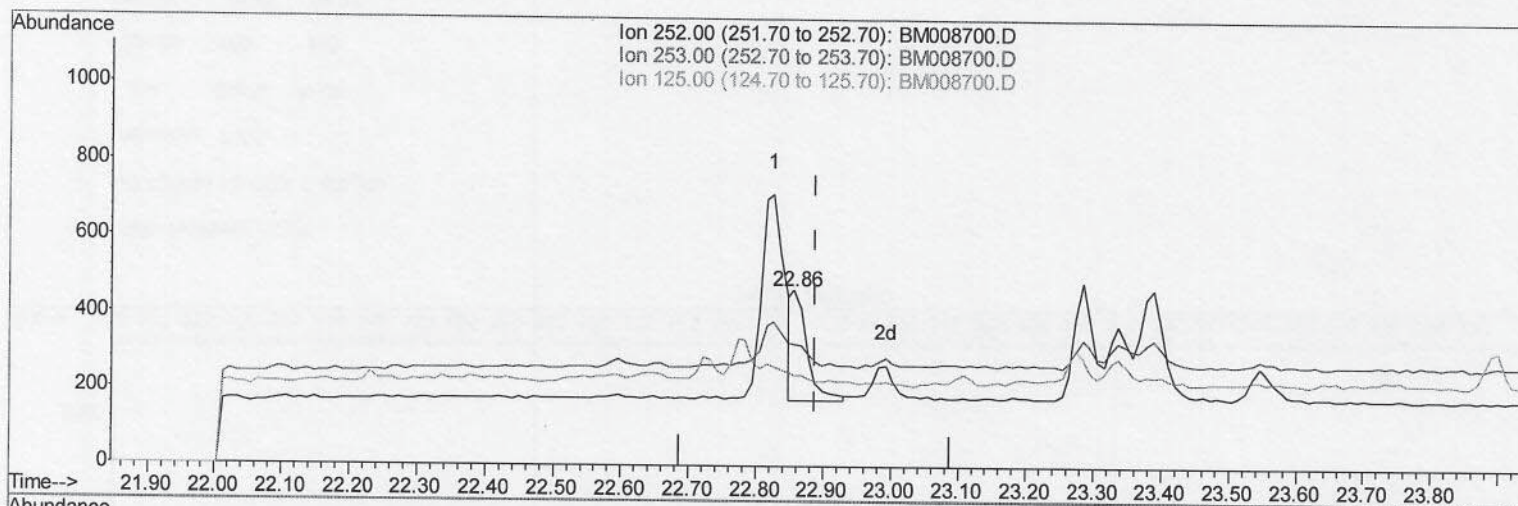
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
 Data File : BM008700.D
 Acq On : 28 Dec 2016 19:08
 Operator : UM/SJ
 Sample : H6067-17
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA7H3

Quant Time: Dec 29 04:15:46 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
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Manual Integrations
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TIC: BM008700.D

(22) Benzo(k)fluoranthene

22.857min (-0.031) 0.09ng/ul m > $\frac{5.5}{12/30/16}$

response 480

Ion	Exp%	Act%
252.00	100	100
253.00	30.60	69.61#
125.00	17.10	51.72#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
 Data File : BM008700.D
 Acq On : 28 Dec 2016 19:08
 Operator : UM/SJ
 Sample : H6067-17
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA7H3

Quant Time: Dec 29 04:18:35 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 29 03:29:39 2016
 Response via : Initial Calibration

Manual Integrations
 APPROVED

mohammad
 12/30/2016 8:53:41 AM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.65	152	378m	0.40	ng/ul	-0.17
2) Naphthalene-d8	10.43	136	1420	0.40	ng/ul	-0.13
6) Acenaphthene-d10	14.28	164	918m	0.40	ng/ul	-0.07
10) Phenanthrene-d10	17.04	188	1741m	0.40	ng/ul	-0.07
16) Chrysene-d12	21.27	240	1770	0.40	ng/ul	-0.01
20) Perylene-d12	23.49	264	1375m	0.40	ng/ul	-0.03

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System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Methylnaphthalene-d10	12.07	152	462	0.21	ng/ul	-0.09
14) Fluoranthene-d10	19.10	212	1237	0.26	ng/ul	-0.04

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) 2-Methylnaphthalene	12.14	142	125	0.05	ng/ul	97
12) Phenanthrene	17.07	178	348m	0.07	ng/ul	73
15) Fluoranthene	19.12	202	622	0.10	ng/ul	73
17) Pyrene	19.48	202	931	0.14	ng/ul#	73
18) Benzo(a)anthracene	21.25	228	651	0.11	ng/ul#	52
19) Chrysene	21.30	228	600	0.09	ng/ul#	60
21) Benzo(b)fluoranthene	22.83	252	1372m	0.25	ng/ul	40
22) Benzo(k)fluoranthene	22.86	252	480m	0.09	ng/ul	71
23) Benzo(a)pyrene	23.39	252	679	0.14	ng/ul#	42
24) Indeno(1,2,3-cd)pyrene	25.78	276	527	0.09	ng/ul#	
26) Benzo(g,h,i)perylene	26.47	276	507	0.10	ng/ul#	

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 12/30/16

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

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