

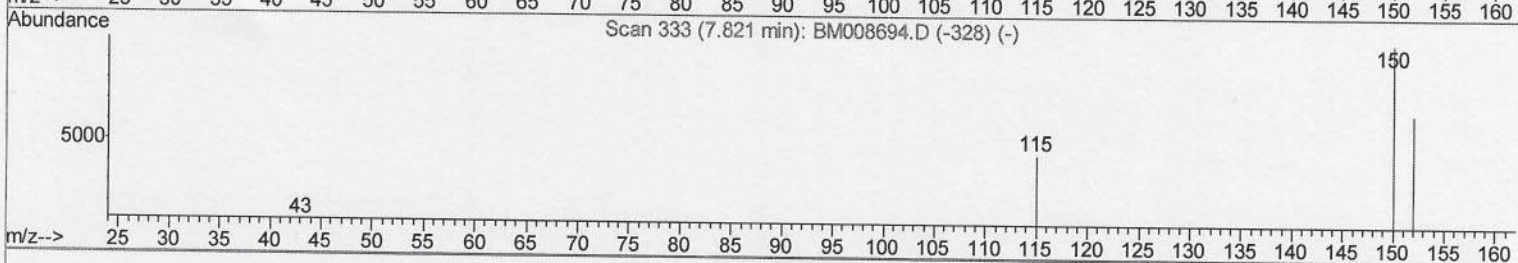
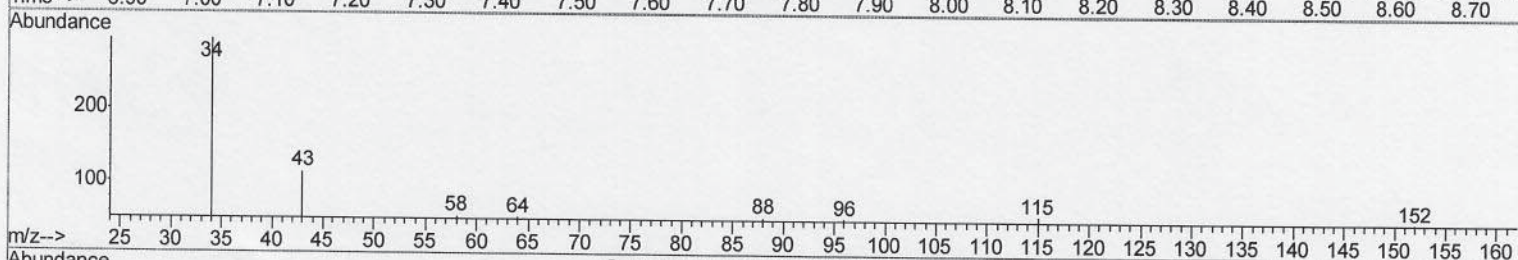
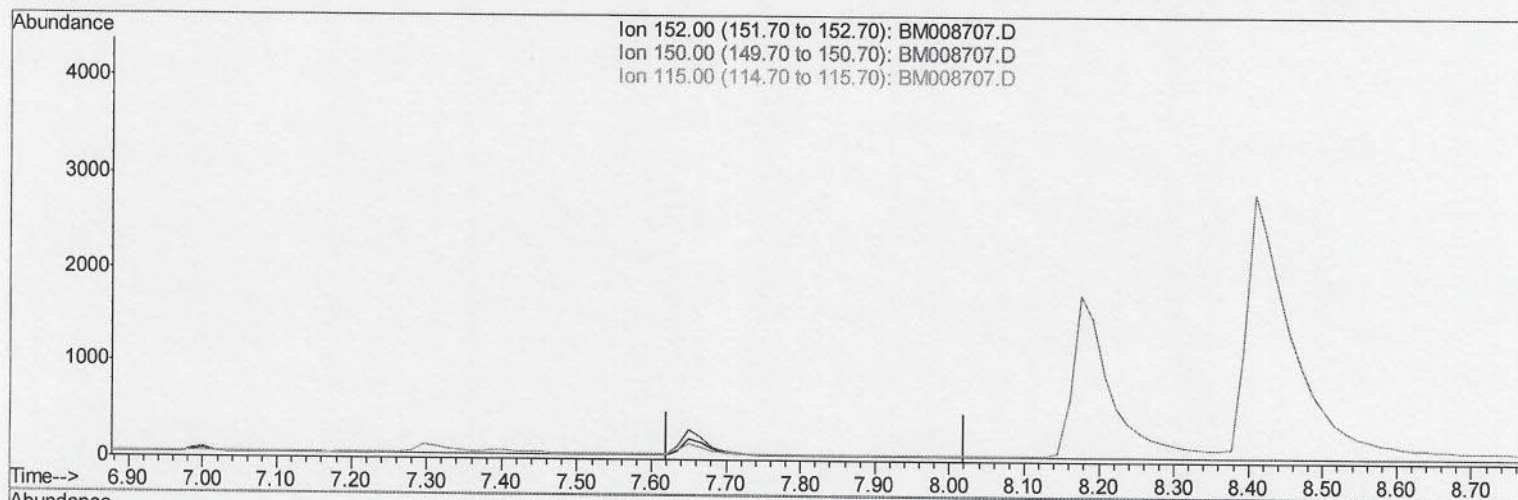
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008707.D
Acq On : 28 Dec 2016 23:21
Operator : UM/SJ
Sample : H6067-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA7F6

Quant Time: Dec 29 03:34:30 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#
.000	0.00	0.00

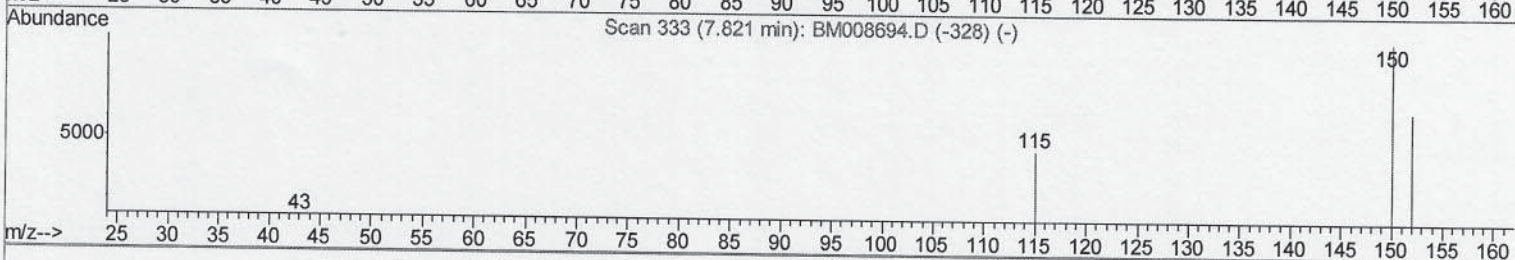
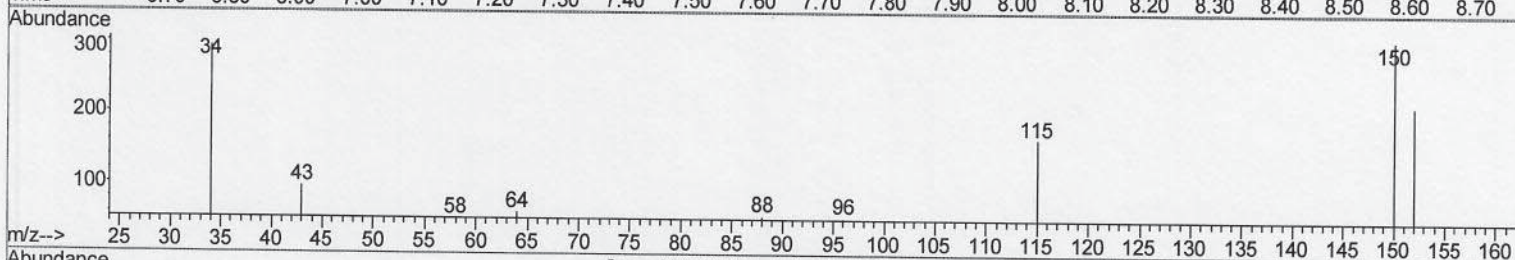
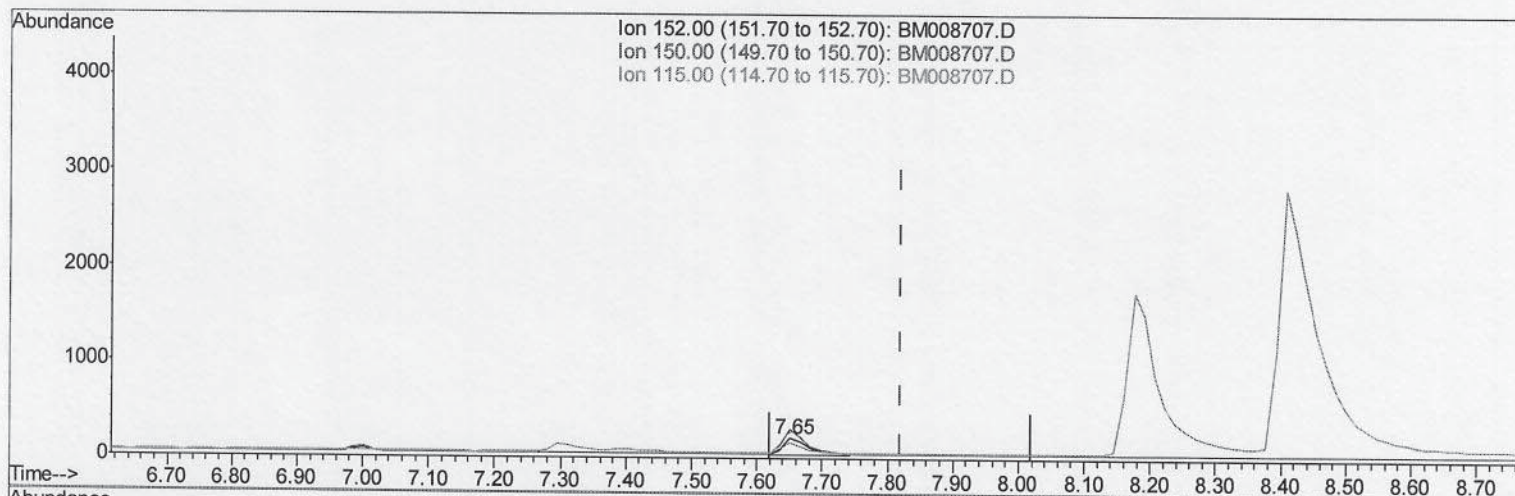
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
 Data File : BM008707.D
 Acq On : 28 Dec 2016 23:21
 Operator : UM/SJ
 Sample : H6067-05
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 DA7F6

Quant Time: Dec 29 03:34:30 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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TIC: BM008707.D

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

7.650min (-0.170) 0.40ng/ul m

response 535

Ion	Exp%	Act%
152.00	100	100
150.00	143.40	142.99
115.00	64.90	77.10
0.00	0.00	0.00

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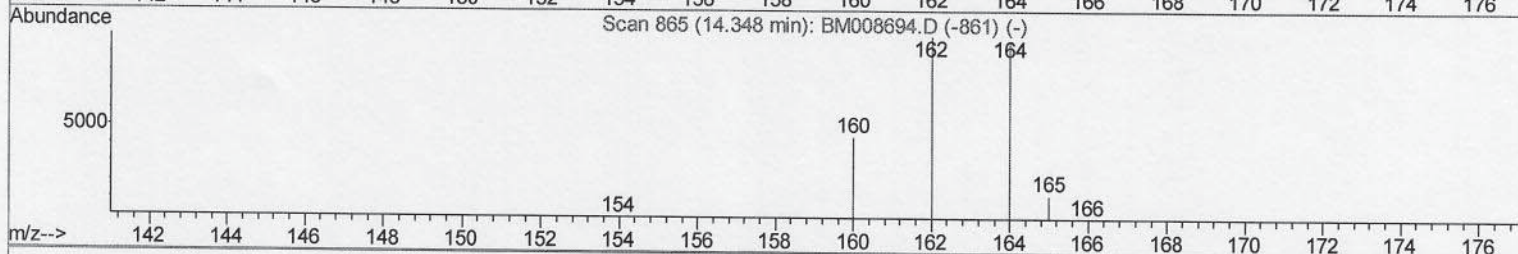
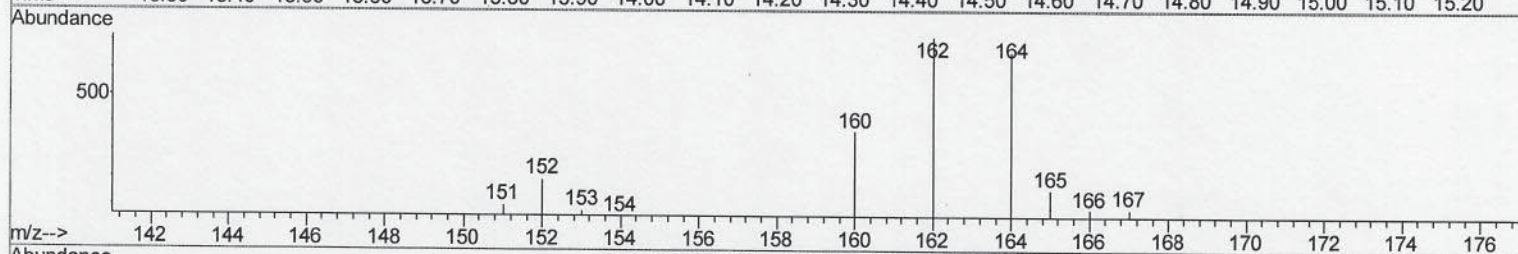
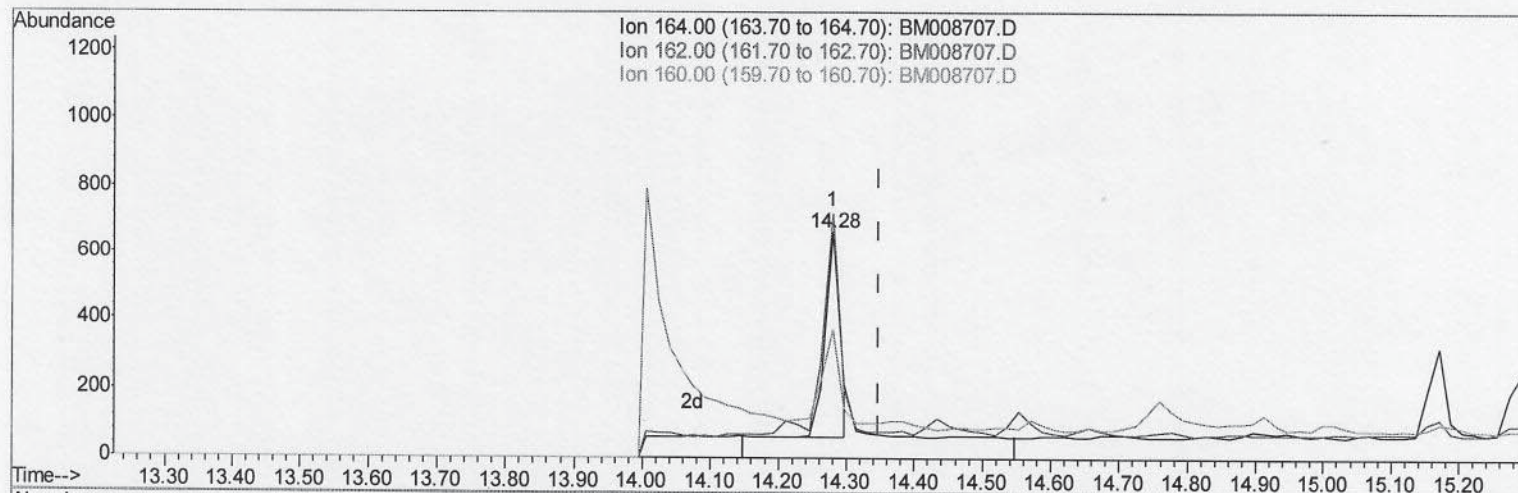
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
 Data File : BM008707.D
 Acq On : 28 Dec 2016 23:21
 Operator : UM/SJ
 Sample : H6067-05
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA7F6

Quant Time: Dec 29 03:34:30 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: BM008707.D

(6) Acenaphthene-d10 (I)

14.280min (-0.069) 0.40ng/ul

response 923

Ion	Exp%	Act%
164.00	100	100
162.00	98.60	108.28
160.00	48.80	56.02
0.00	0.00	0.00

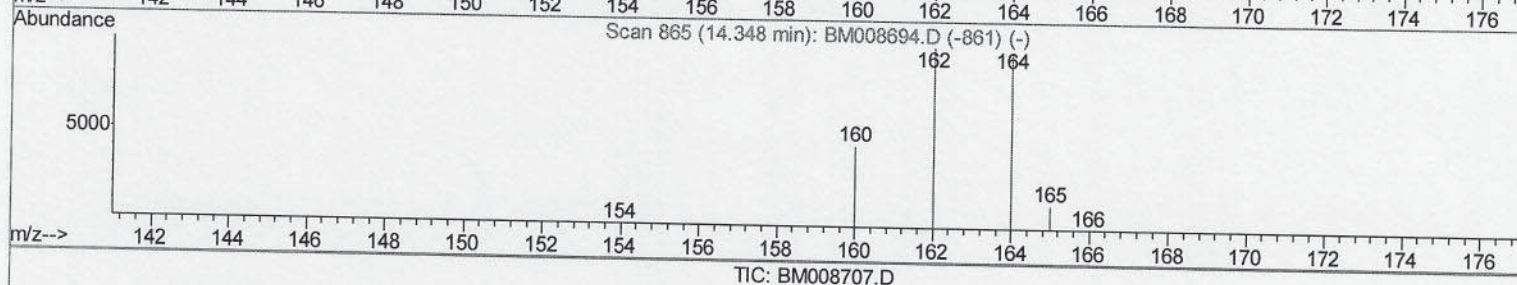
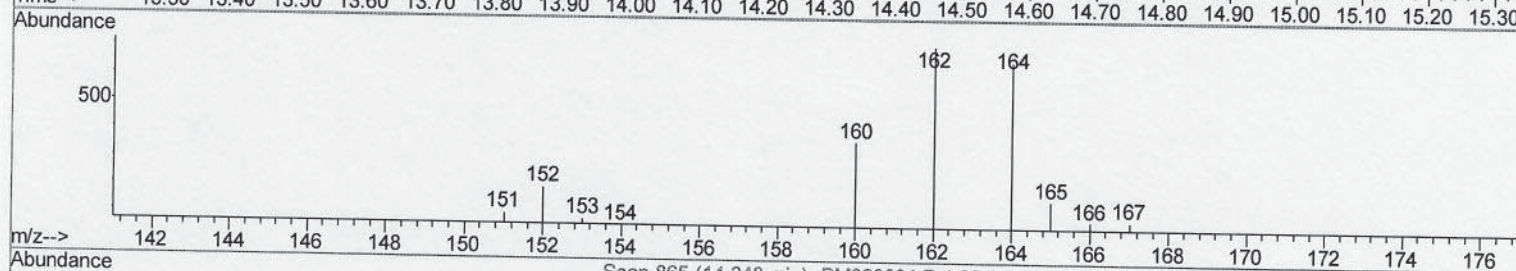
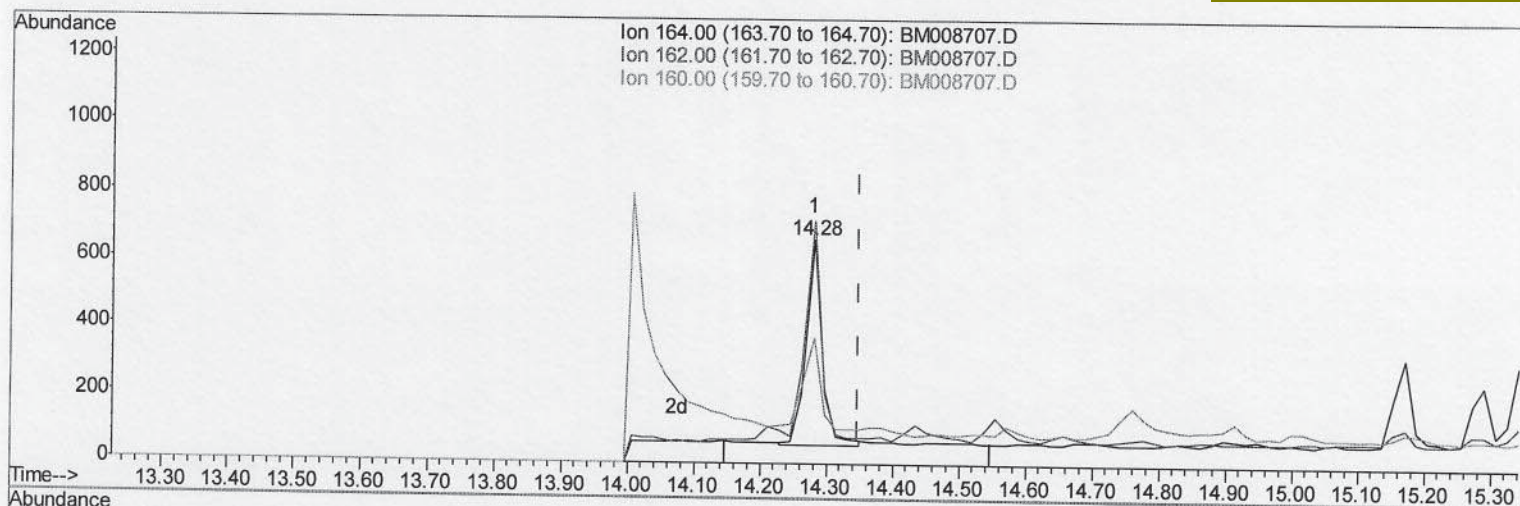
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
 Data File : BM008707.D
 Acq On : 28 Dec 2016 23:21
 Operator : UM/SJ
 Sample : H6067-05
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 DA7F6

Quant Time: Dec 29 03:34:30 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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(6) Acenaphthene-d10 (I)

14.280min (-0.069) 0.40ng/ul m

response 1009

Ion	Exp%	Act%
164.00	100	100
162.00	98.60	108.28
160.00	48.80	56.02
0.00	0.00	0.00

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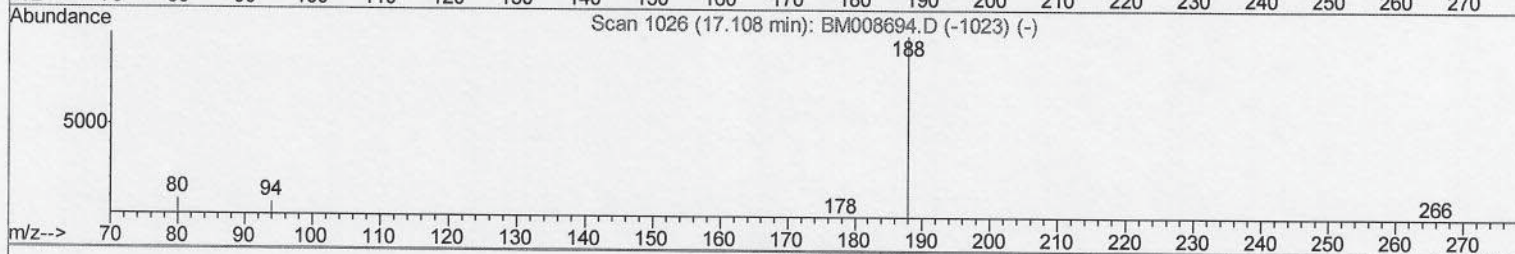
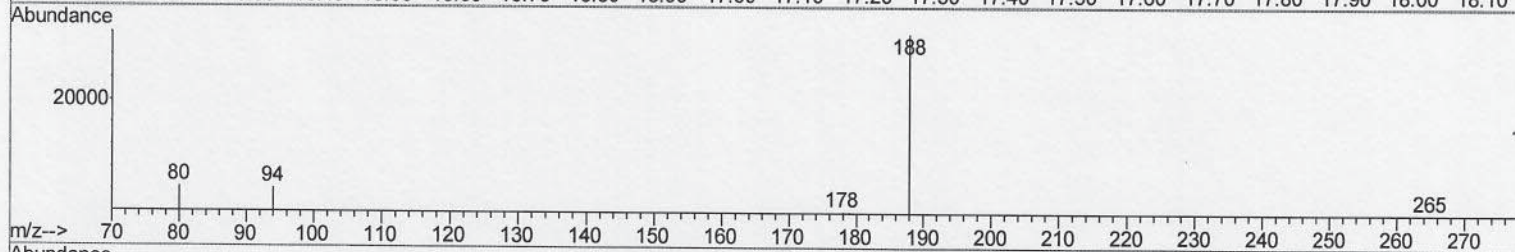
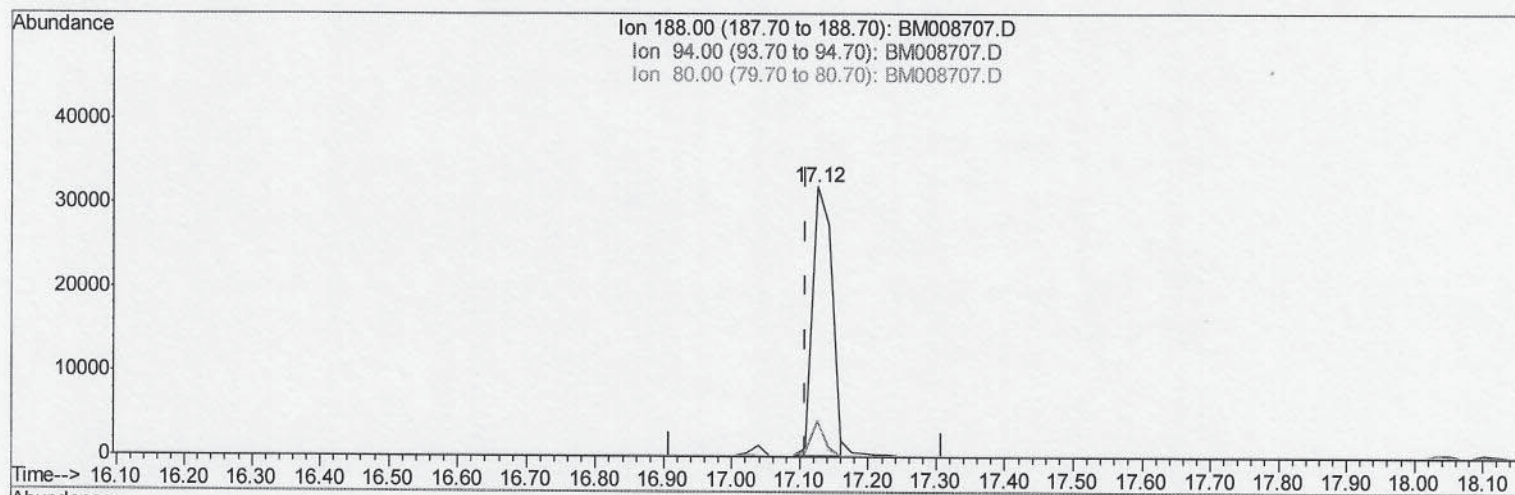
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008707.D
Acq On : 28 Dec 2016 23:21
Operator : UM/SJ
Sample : H6067-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA7F6

Quant Time: Dec 29 03:34:30 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: BM008707.D

(10) Phenanthrene-d10 (I)

17.125min (+0.017) 0.40ng/ul

response 64052

Ion	Exp%	Act%
188.00	100	100
94.00	11.00	13.31#
80.00	11.80	13.85
0.00	0.00	0.00

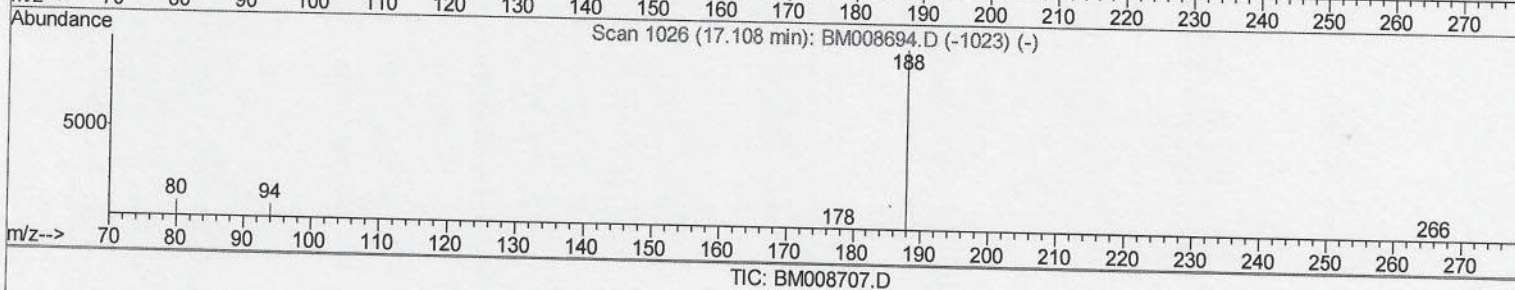
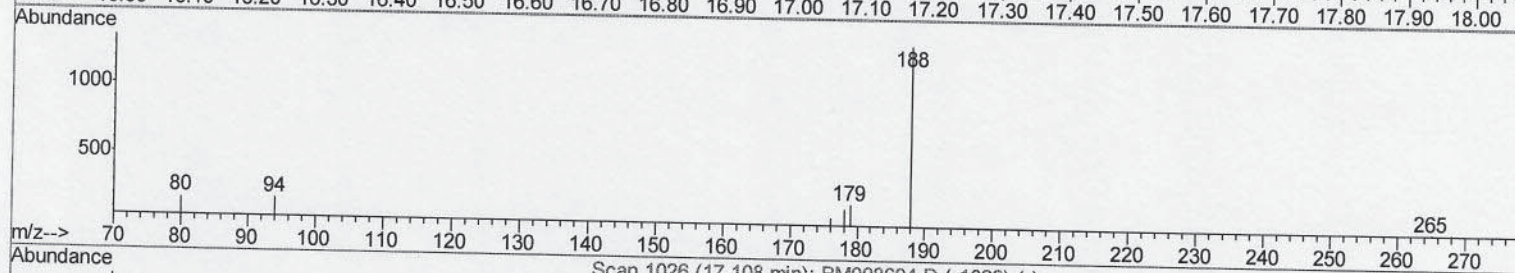
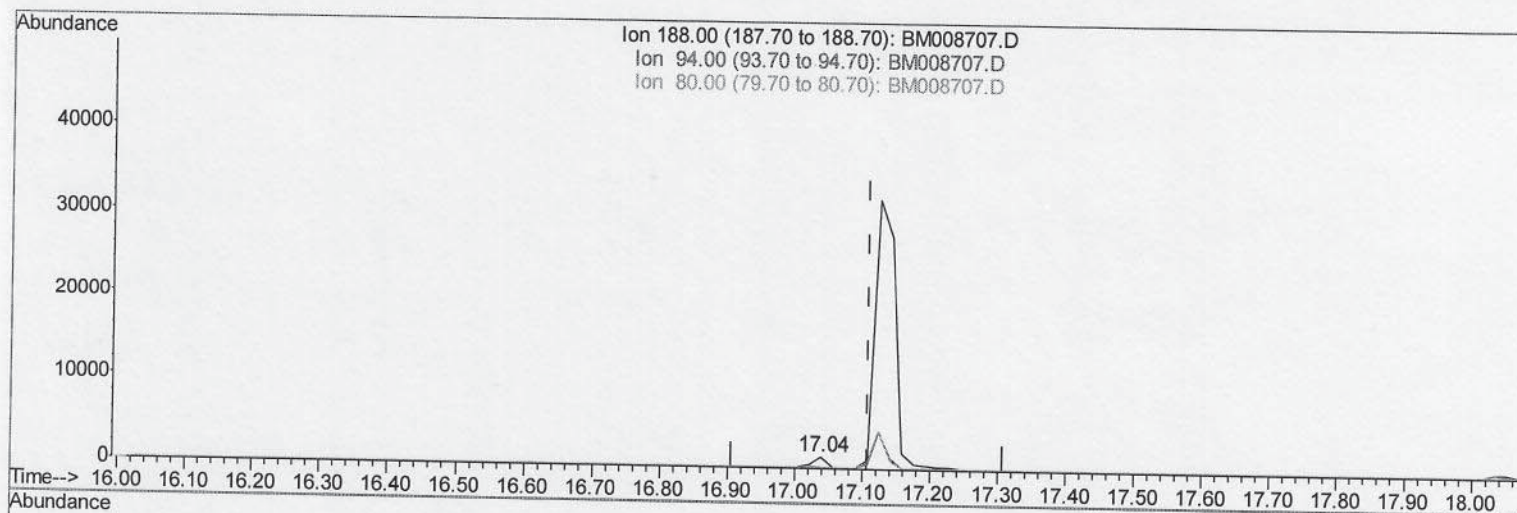
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
 Data File : BM008707.D
 Acq On : 28 Dec 2016 23:21
 Operator : UM/SJ
 Sample : H6067-05
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA7F6

Manual Integrations
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Quant Time: Dec 29 03:34:30 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



(10) Phenanthrene-d10 (I)

17.039min (-0.069) 0.40ng/ul m

response 1955

Ion	Exp%	Act%
188.00	100	100
94.00	11.00	13.40#
80.00	11.80	12.95
0.00	0.00	0.00

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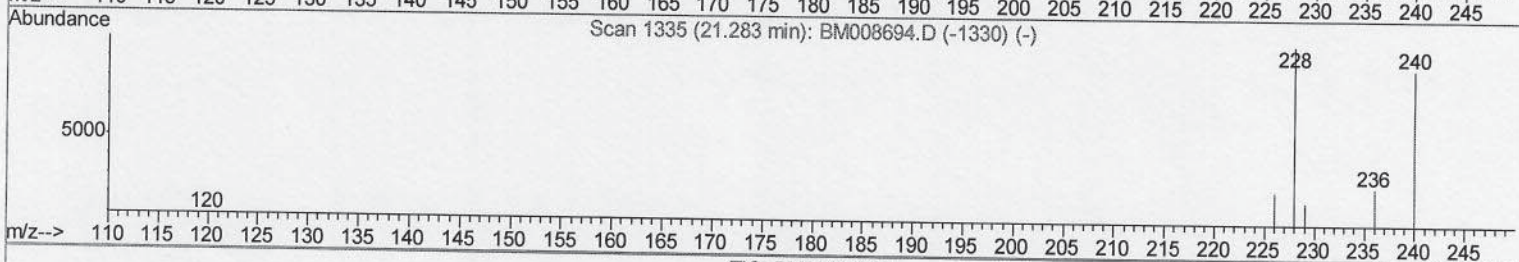
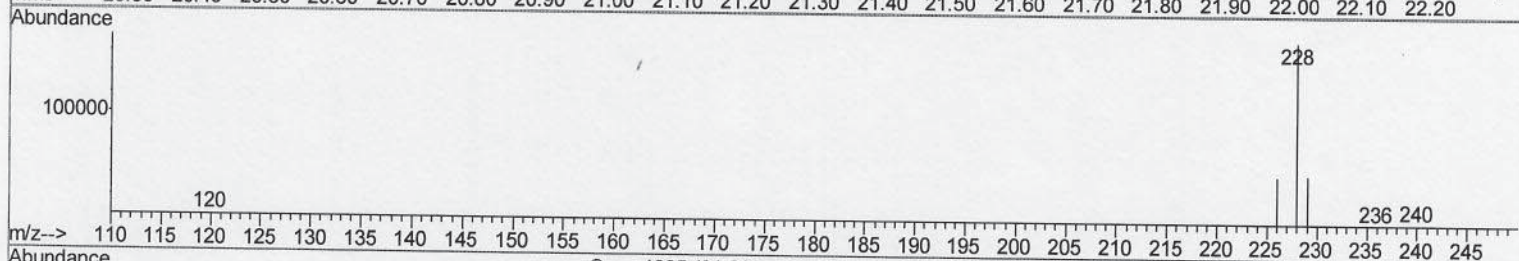
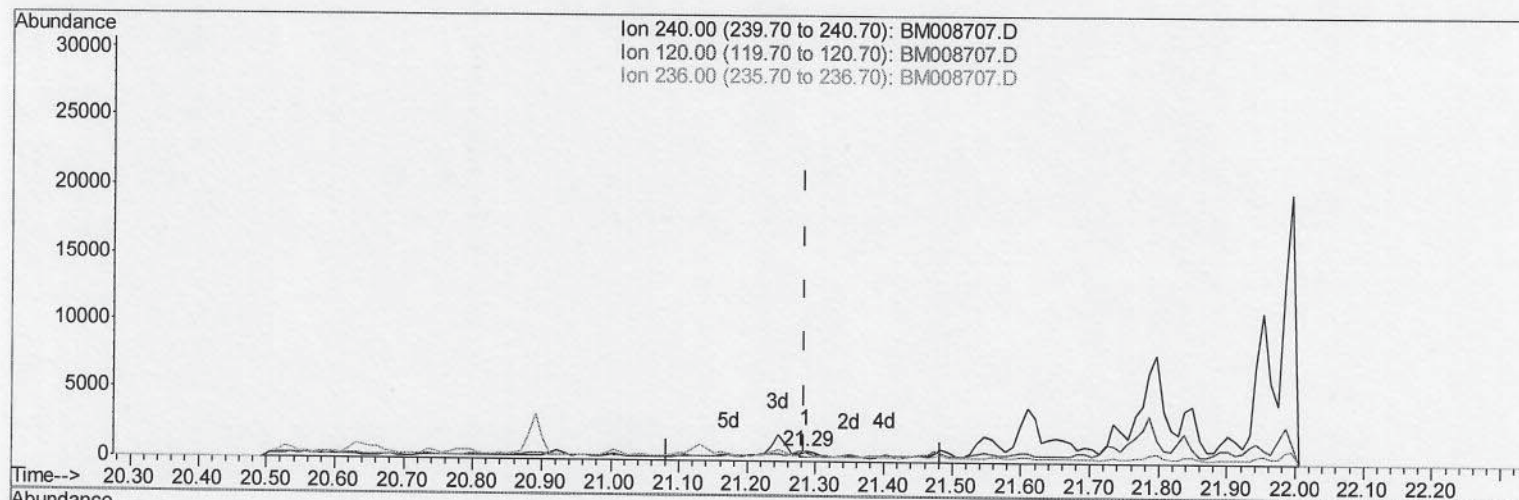
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
 Data File : BM008707.D
 Acq On : 28 Dec 2016 23:21
 Operator : UM/SJ
 Sample : H6067-05
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA7F6

Quant Time: Dec 29 03:34:30 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
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Manual Integrations
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(16) Chrysene-d12 (I)
 21.286min (+0.003) 0.40ng/ul
 response 525

Ion	Exp%	Act%
240.00	100	100
120.00	20.60	91.23#
236.00	34.90	53.90#
0.00	0.00	0.00

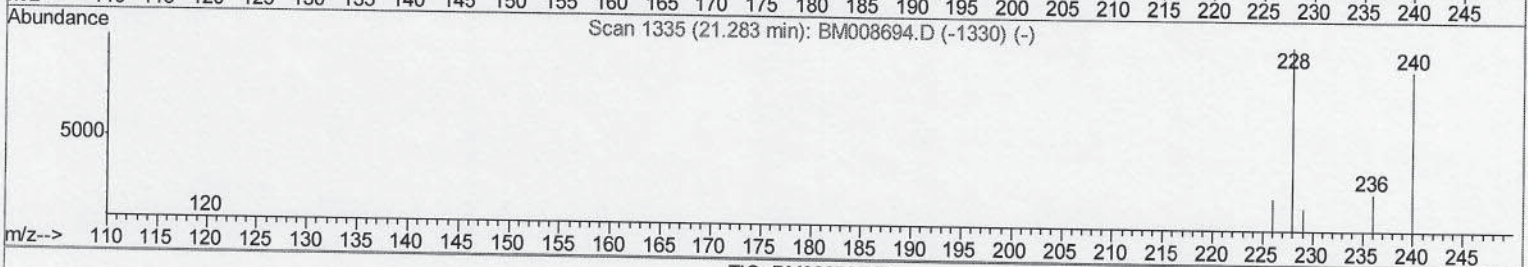
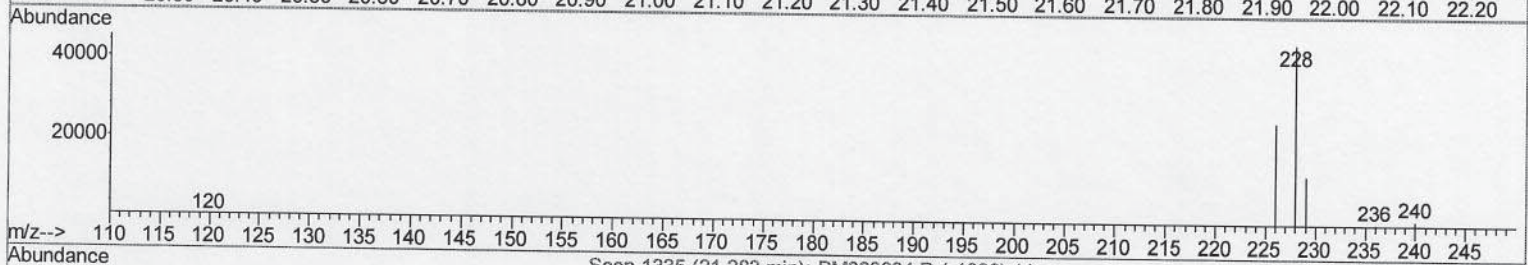
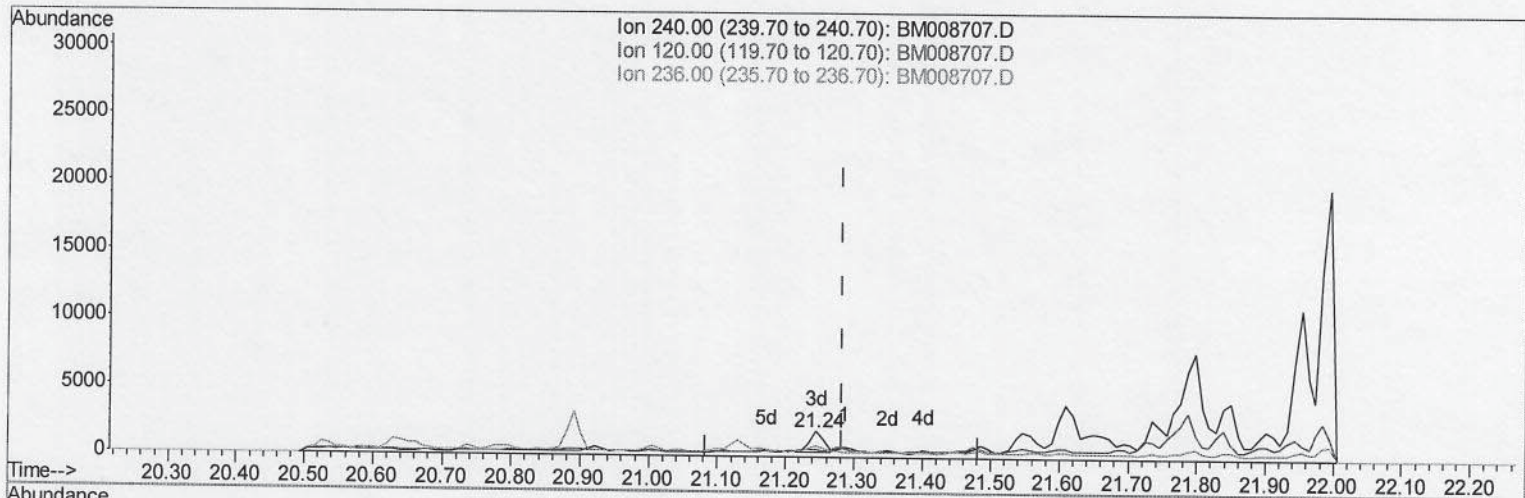
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
 Data File : BM008707.D
 Acq On : 28 Dec 2016 23:21
 Operator : UM/SJ
 Sample : H6067-05
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 DA7F6

Quant Time: Dec 29 03:34:30 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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(16) Chrysene-d12 (I)

21.245min (-0.038) 0.40ng/ul m

response 2066

Ion	Exp%	Act%
240.00	100	100
120.00	20.60	28.95#
236.00	34.90	45.66#
0.00	0.00	0.00

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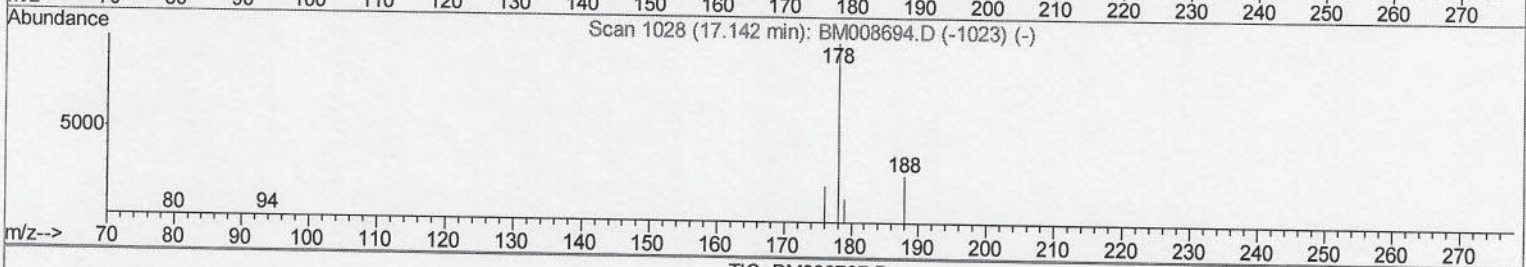
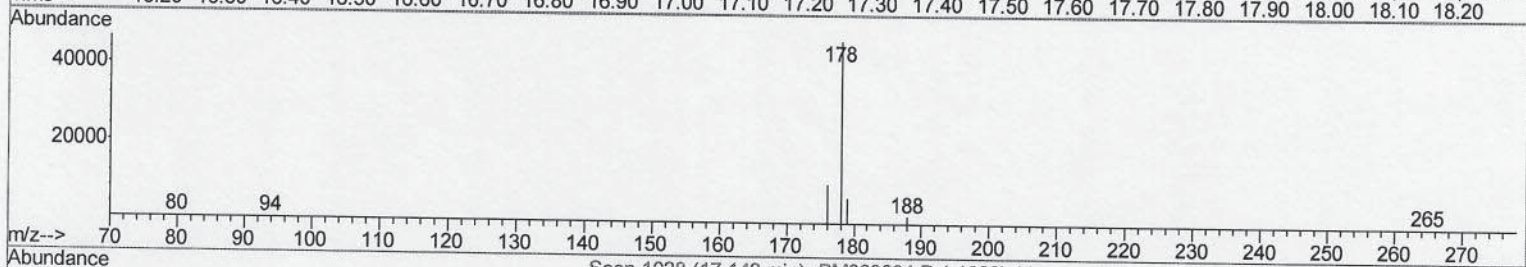
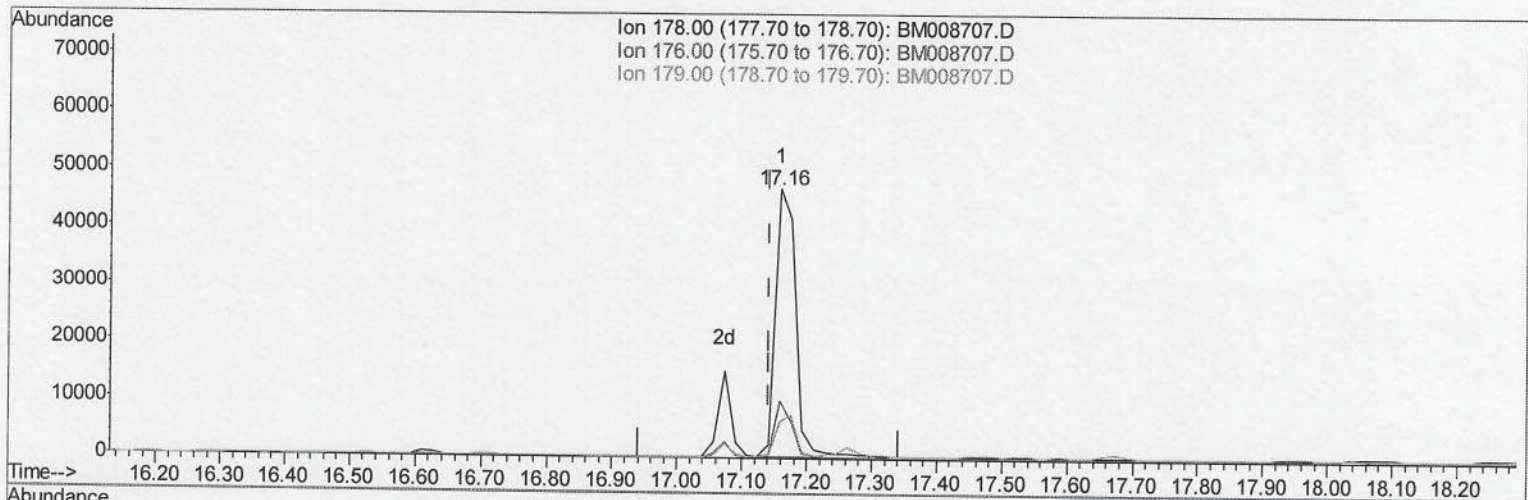
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008707.D
Acq On : 28 Dec 2016 23:21
Operator : UM/SJ
Sample : H6067-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA7F6

Quant Time: Dec 29 04:54:57 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: BM008707.D

(12) Phenanthrene

17.159min (+0.017) 16.92ng/ul

response 100998

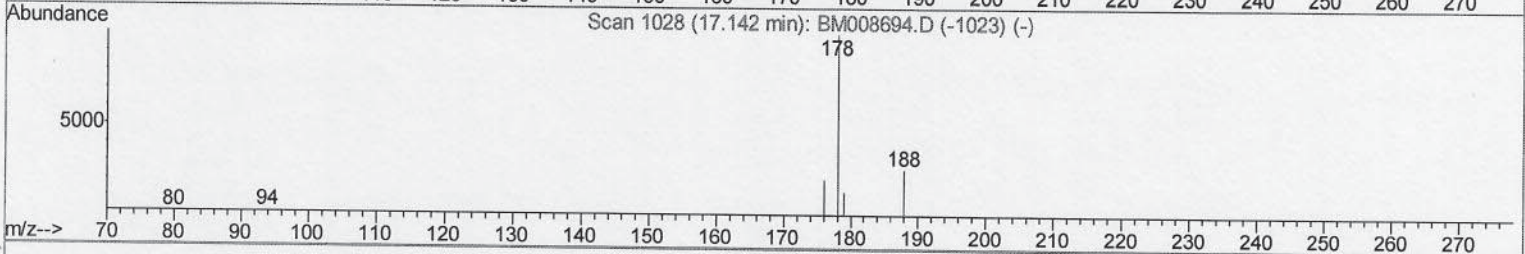
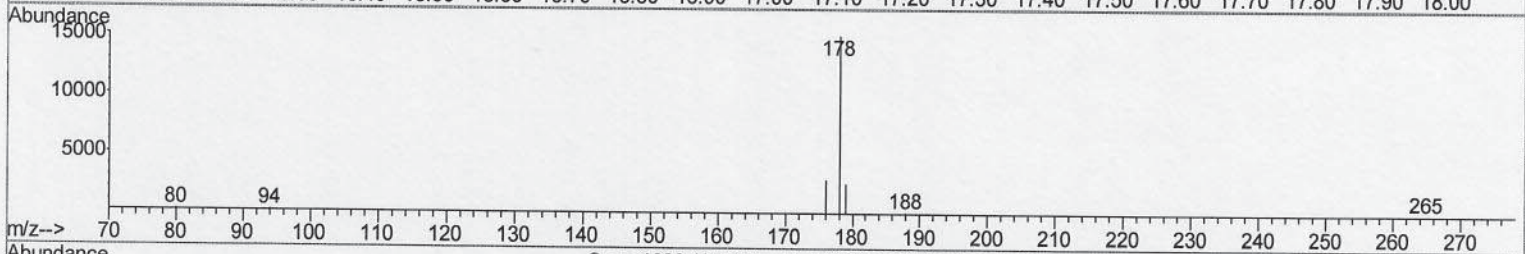
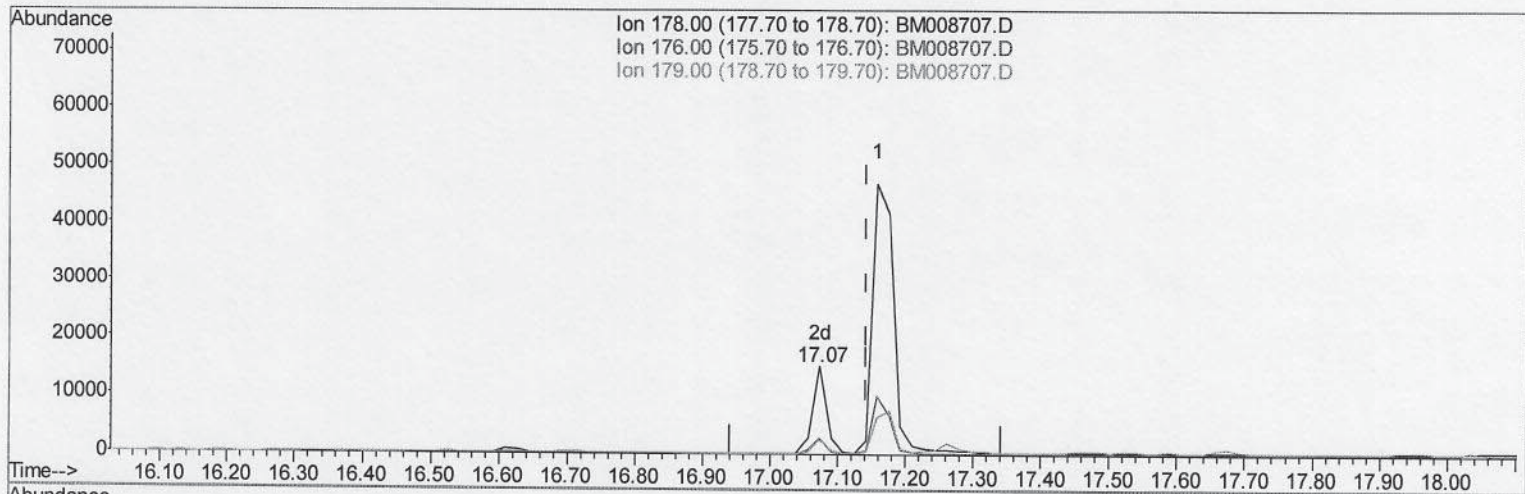
Ion	Exp%	Act%
178.00	100	100
176.00	23.00	21.49
179.00	17.00	13.86
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
 Data File : BM008707.D
 Acq On : 28 Dec 2016 23:21
 Operator : UM/SJ
 Sample : H6067-05
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA7F6

Quant Time: Dec 29 04:54:57 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: BM008707.D

(12) Phenanthrene

17.073min (-0.069) 3.65ng/ul m

response 21762

Ion Exp% Act%

178.00 100 100

176.00 23.00 19.12

179.00 17.00 16.63

0.00 0.00 0.00

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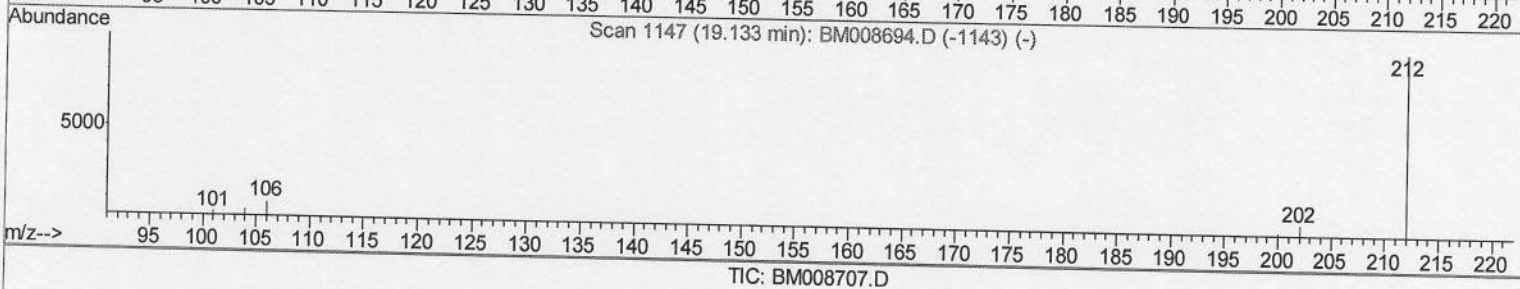
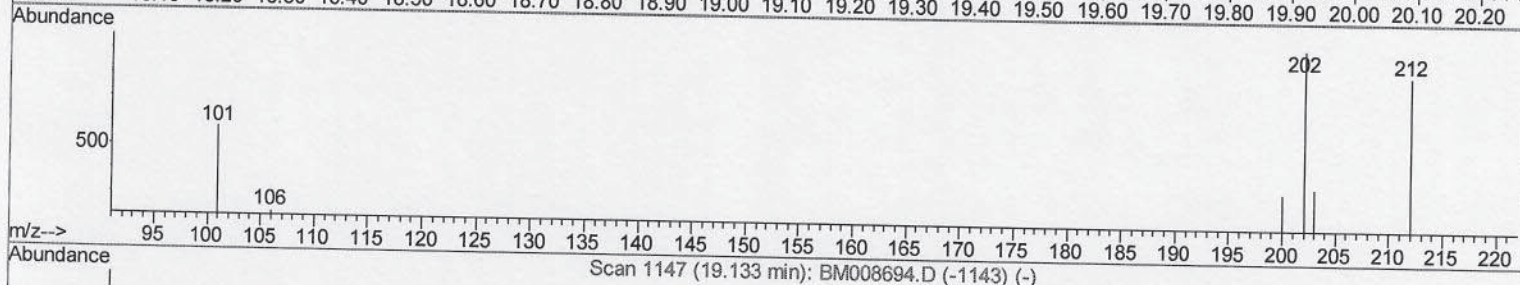
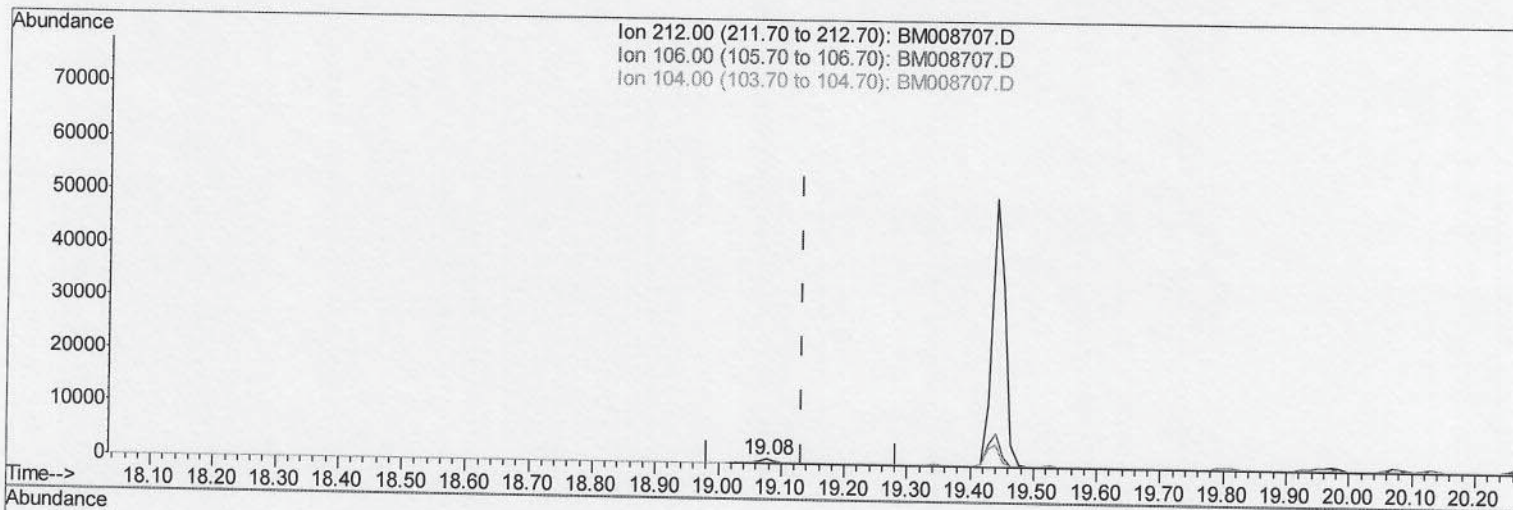
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
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 Acq On : 28 Dec 2016 23:21
 Operator : UM/SJ
 Sample : H6067-05
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA7F6

Quant Time: Dec 29 04:54:57 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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(14) Fluoranthene-d10 (SURR)

19.077min (-0.056) 0.20ng/ul

response 1065

Ion	Exp%	Act%
212.00	100	100
106.00	18.30	16.71
104.00	15.60	14.65
0.00	0.00	0.00

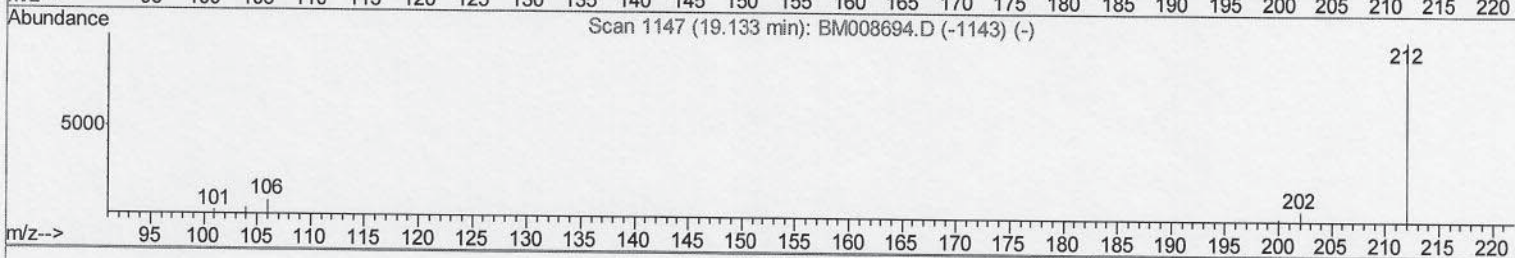
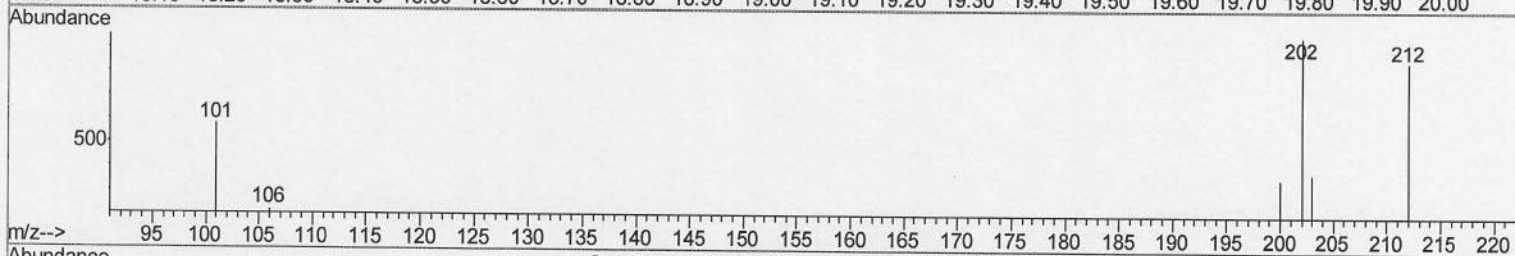
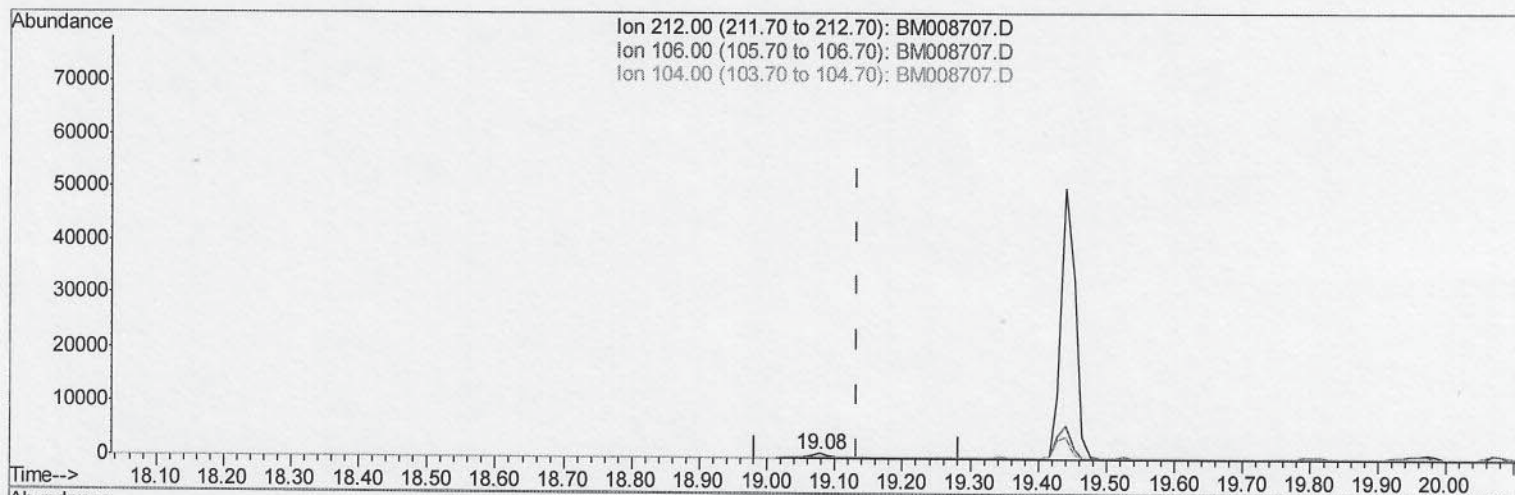
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
 Data File : BM008707.D
 Acq On : 28 Dec 2016 23:21
 Operator : UM/SJ
 Sample : H6067-05
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA7F6

Manual Integrations
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Quant Time: Dec 29 04:54:57 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



TIC: BM008707.D

(14) Fluoranthene-d10 (SURR)

19.077min (-0.056) 0.21ng/ul m

response 1136

Ion	Exp%	Act%
212.00	100	100
106.00	18.30	15.67
104.00	15.60	13.73
0.00	0.00	0.00

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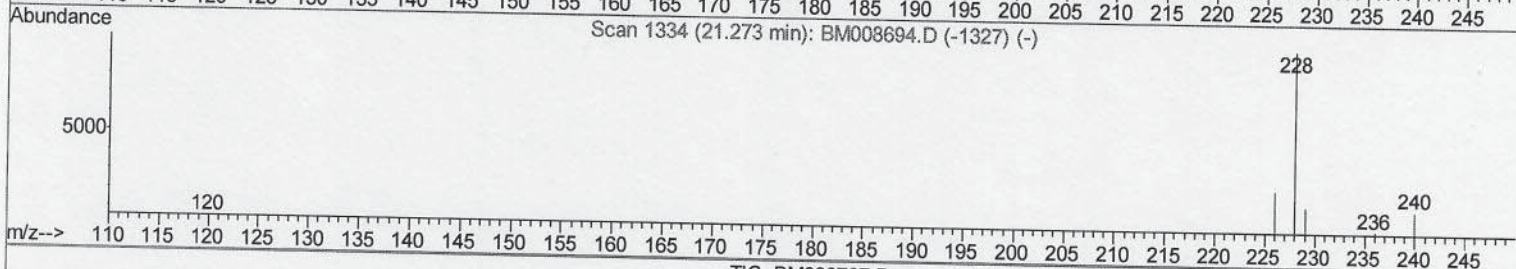
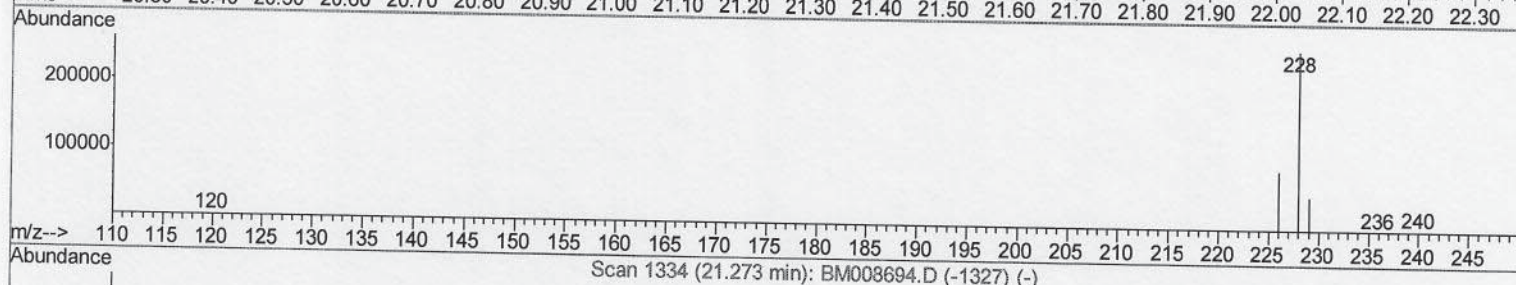
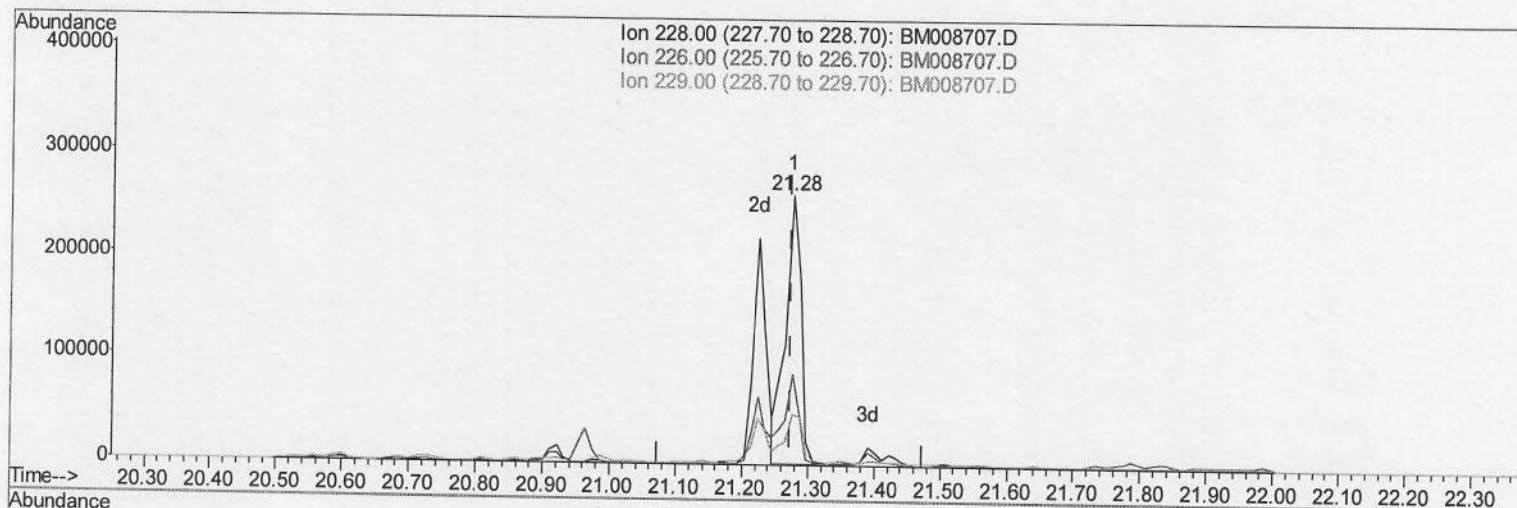
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
 Data File : BM008707.D
 Acq On : 28 Dec 2016 23:21
 Operator : UM/SJ
 Sample : H6067-05
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
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Quant Time: Dec 29 04:54:57 2016
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Manual Integrations
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TIC: BM008707.D

(18) Benzo(a)anthracene

21.276min (+0.003) 60.25ng/ul

response 408712

Ion	Exp%	Act%
228.00	100	100
226.00	28.50	33.30
229.00	21.30	18.57
0.00	0.00	0.00

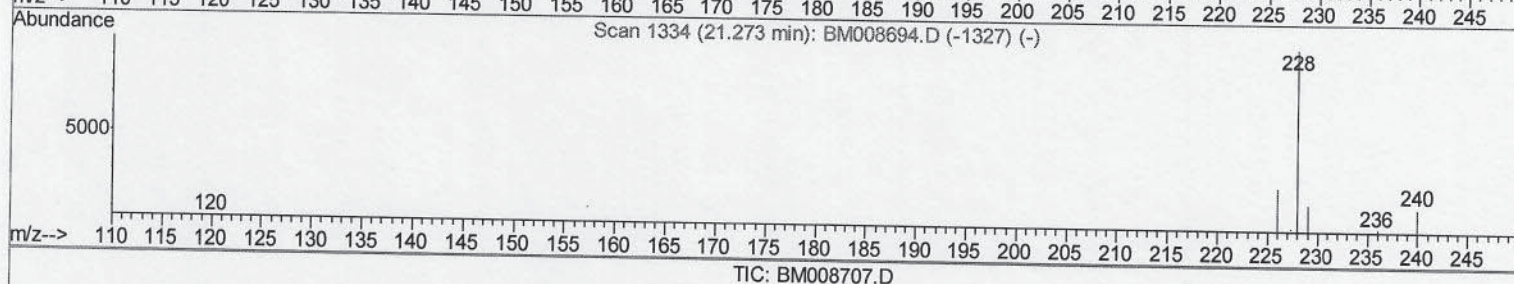
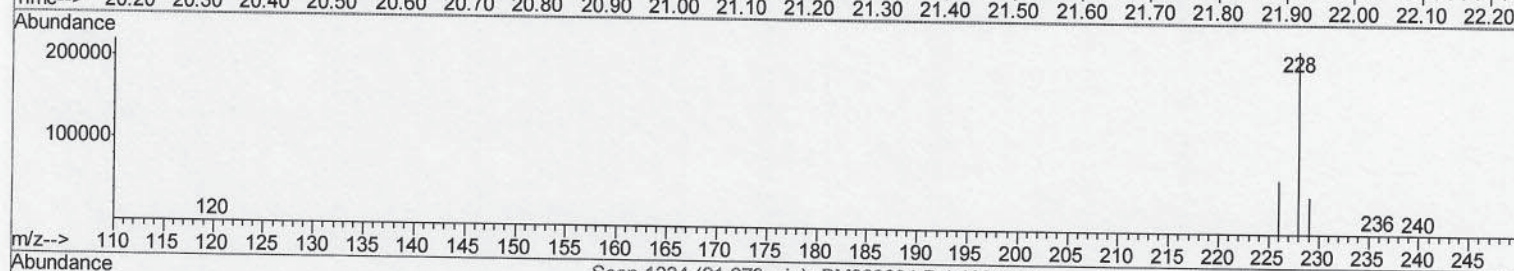
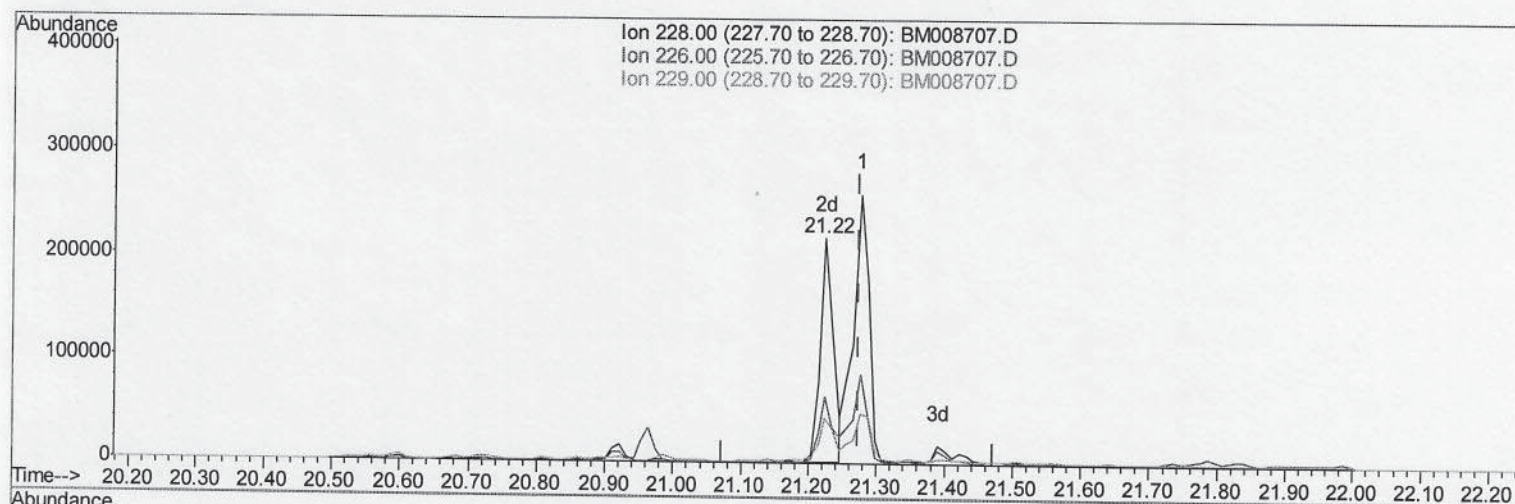
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008707.D
Acq On : 28 Dec 2016 23:21
Operator : UM/SJ
Sample : H6067-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA7F6

Quant Time: Dec 29 04:54:57 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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(18) Benzo(a)anthracene

21.224min (-0.049) 43.57ng/ul m

response 295584

Ion	Exp%	Act%
228.00	100	100
226.00	28.50	29.60
229.00	21.30	20.40
0.00	0.00	0.00

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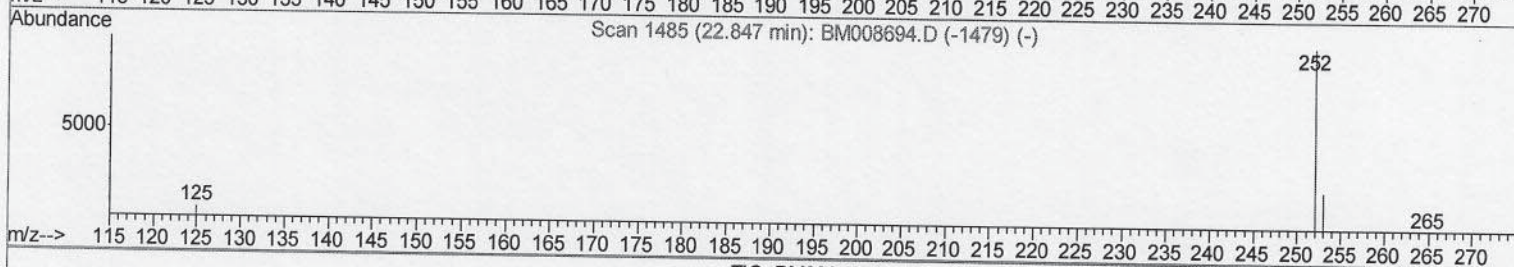
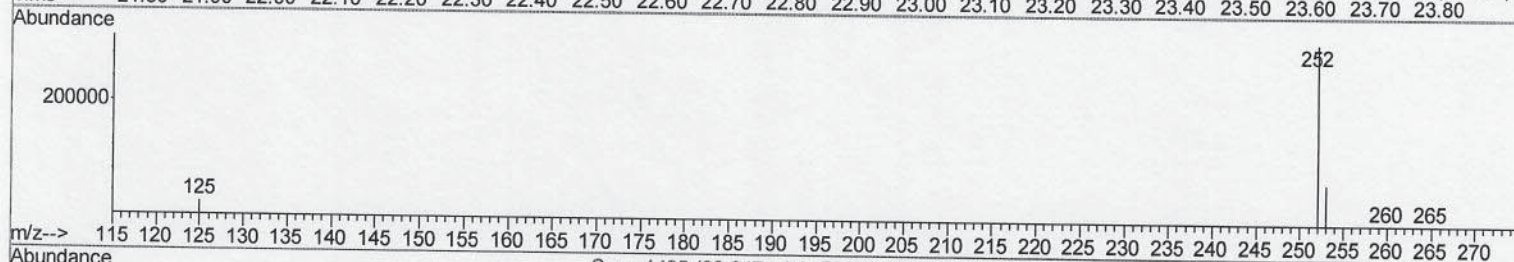
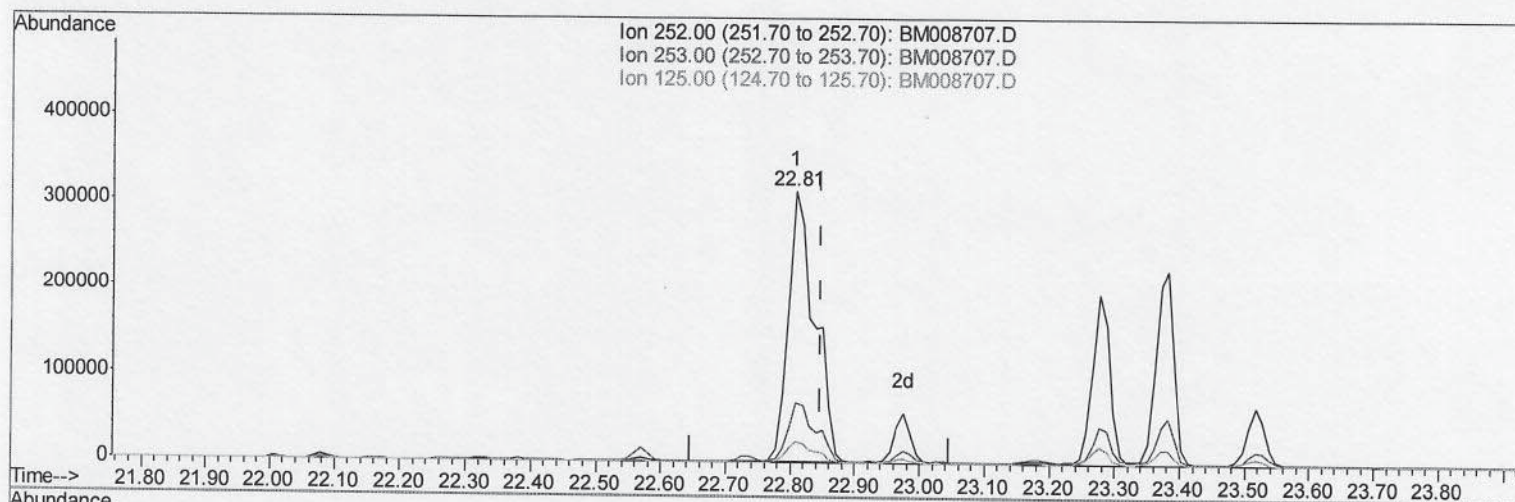
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008707.D
Acq On : 28 Dec 2016 23:21
Operator : UM/SJ
Sample : H6067-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA7F6

Quant Time: Dec 29 04:54:57 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: BM008707.D

(21) Benzo(b)fluoranthene

22.808min (-0.039) 54.43ng/ul

response 888124

Ion	Exp%	Act%
252.00	100	100
253.00	32.10	21.71
125.00	17.50	7.95
0.00	0.00	0.00

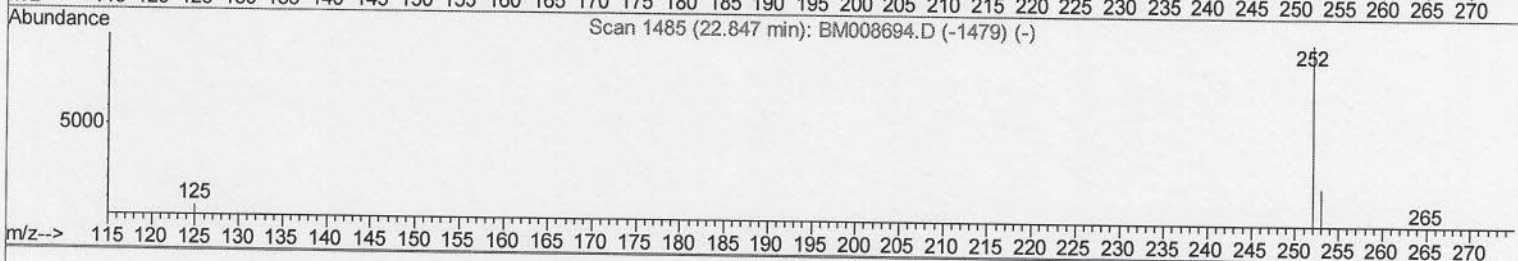
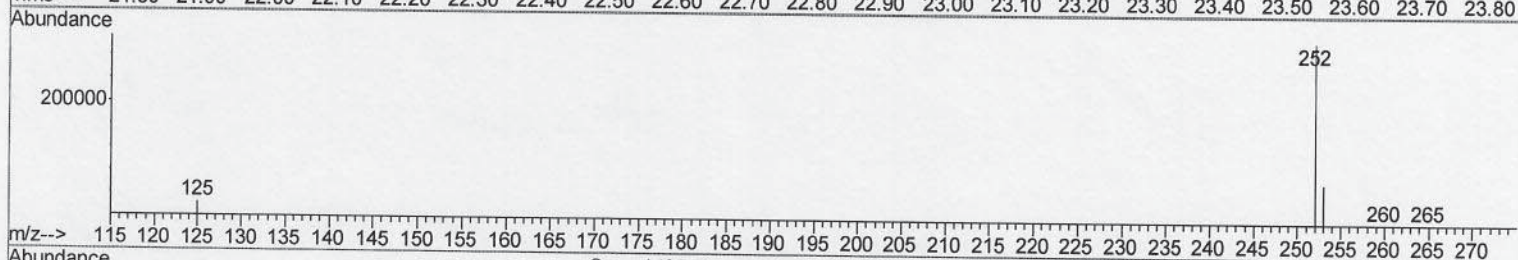
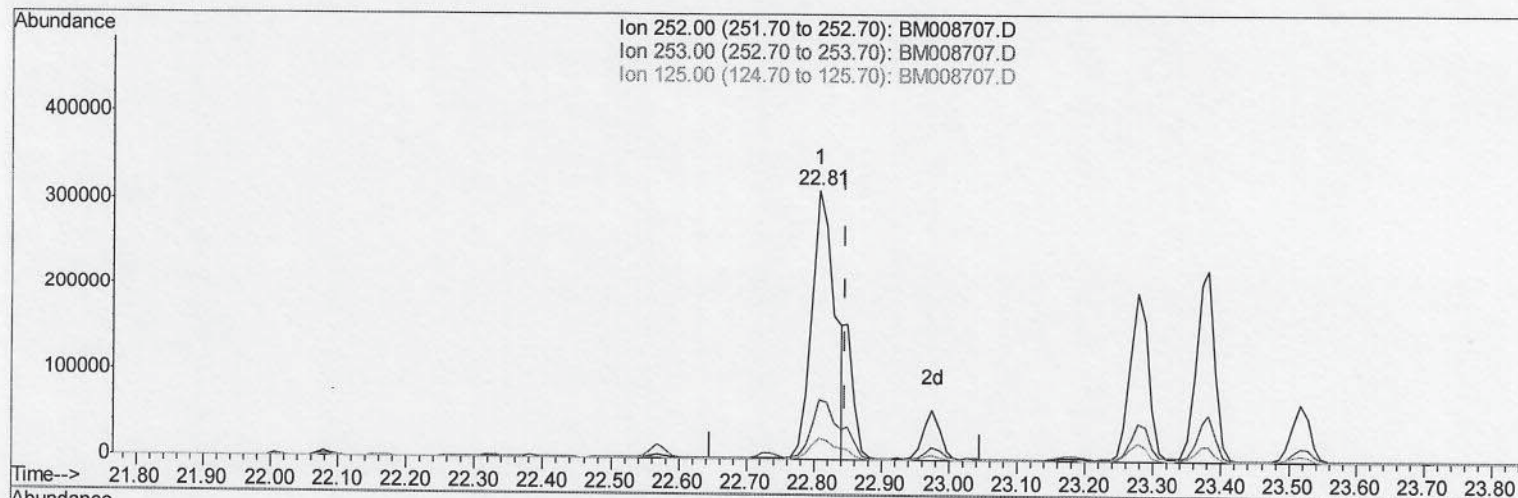
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
 Data File : BM008707.D
 Acq On : 28 Dec 2016 23:21
 Operator : UM/SJ
 Sample : H6067-05
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 DA7F6

Quant Time: Dec 29 04:54:57 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: BM008707.D

(21) Benzo(b)fluoranthene

22.808min (-0.039) 45.93ng/ul m

response 749512

Ion	Exp%	Act%
252.00	100	100
253.00	32.10	21.71
125.00	17.50	7.95
0.00	0.00	0.00

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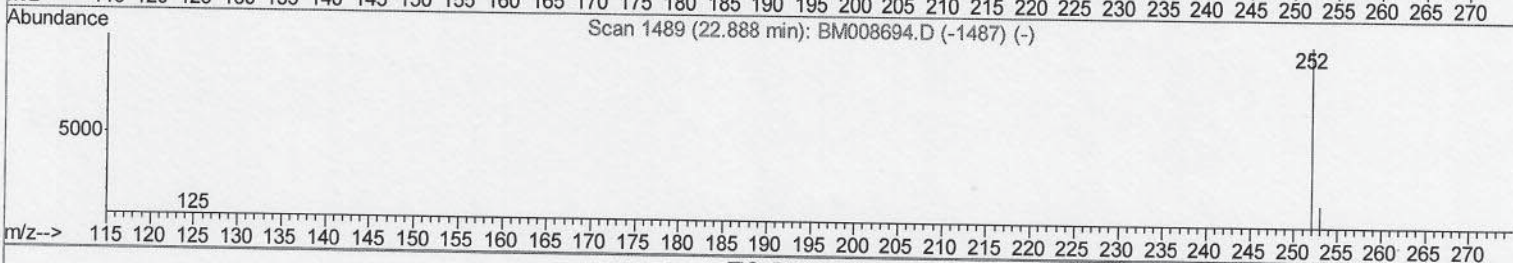
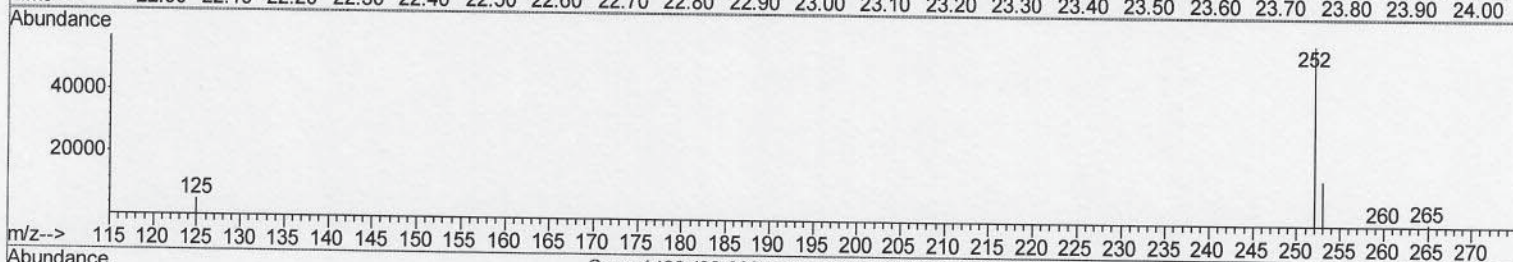
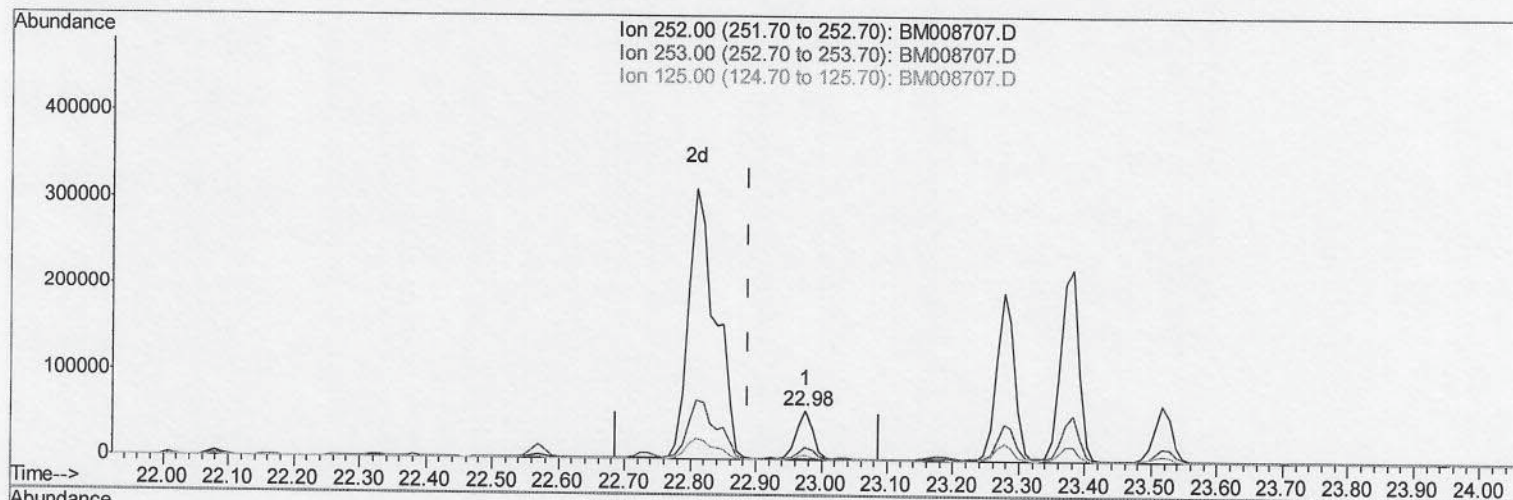
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008707.D
Acq On : 28 Dec 2016 23:21
Operator : UM/SJ
Sample : H6067-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA7F6

Quant Time: Dec 29 04:54:57 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: BM008707.D

(22) Benzo(k)fluoranthene

22.975min (+0.087) 6.08ng/ul

response 96786

Ion	Exp%	Act%
252.00	100	100
253.00	30.60	24.96
125.00	17.10	9.08#
0.00	0.00	0.00

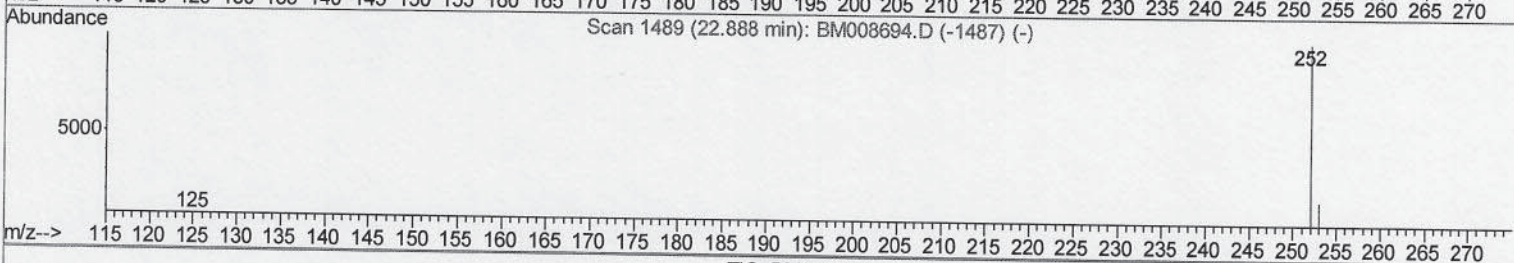
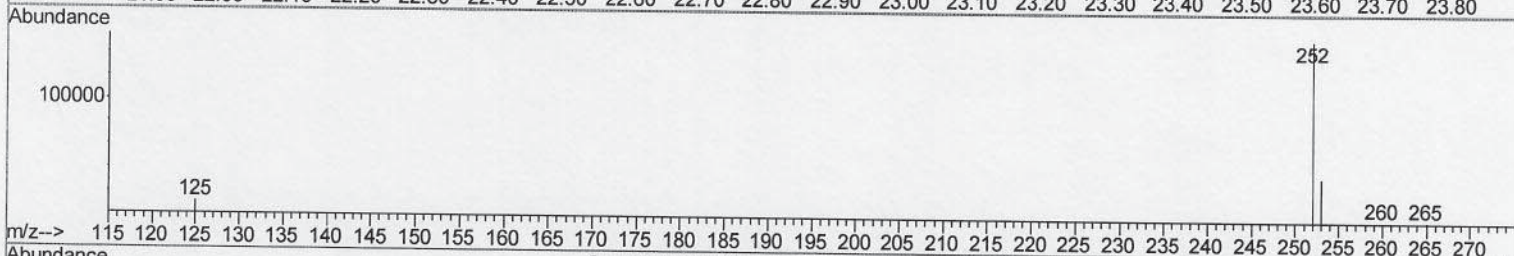
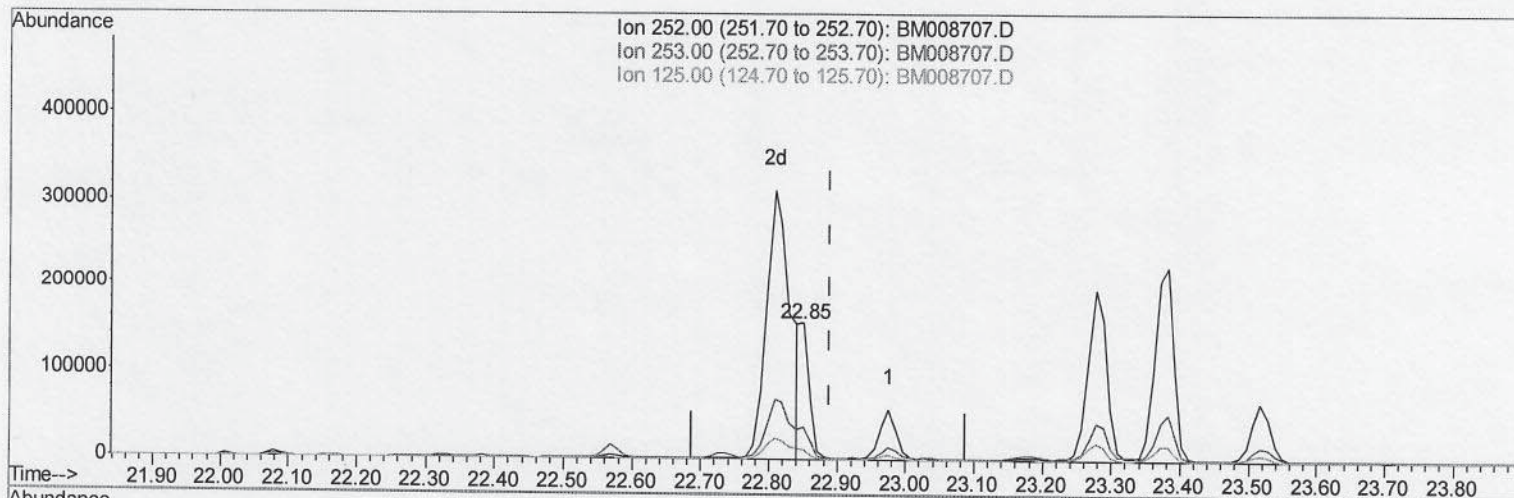
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
 Data File : BM008707.D
 Acq On : 28 Dec 2016 23:21
 Operator : UM/SJ
 Sample : H6067-05
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA7F6

Quant Time: Dec 29 04:54:57 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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 Response via : Initial Calibration

Manual Integrations
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TIC: BM008707.D

(22) Benzo(k)fluoranthene

22.850min (-0.039) 9.18ng/ul m

response 146003

Ion Exp% Act%

252.00	100	100
253.00	30.60	23.81#
125.00	17.10	6.88#
0.00	0.00	0.00

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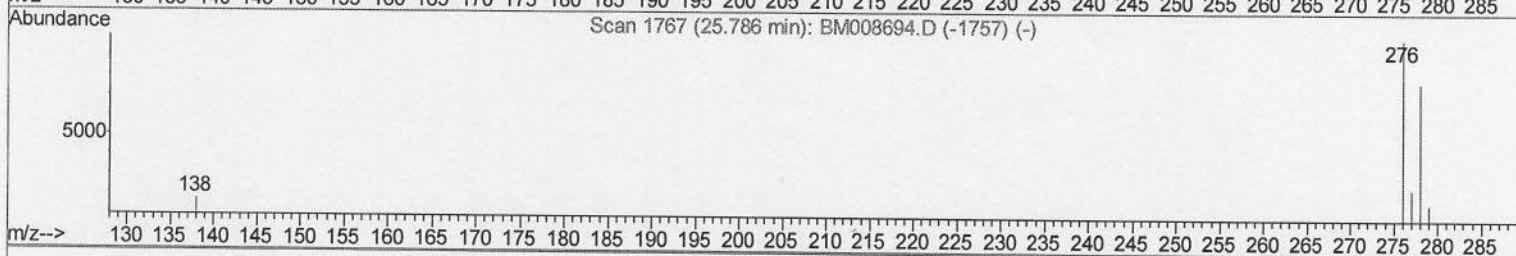
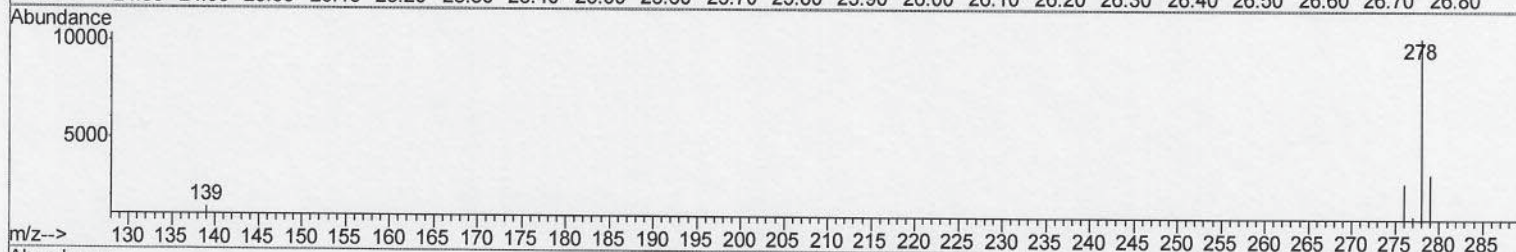
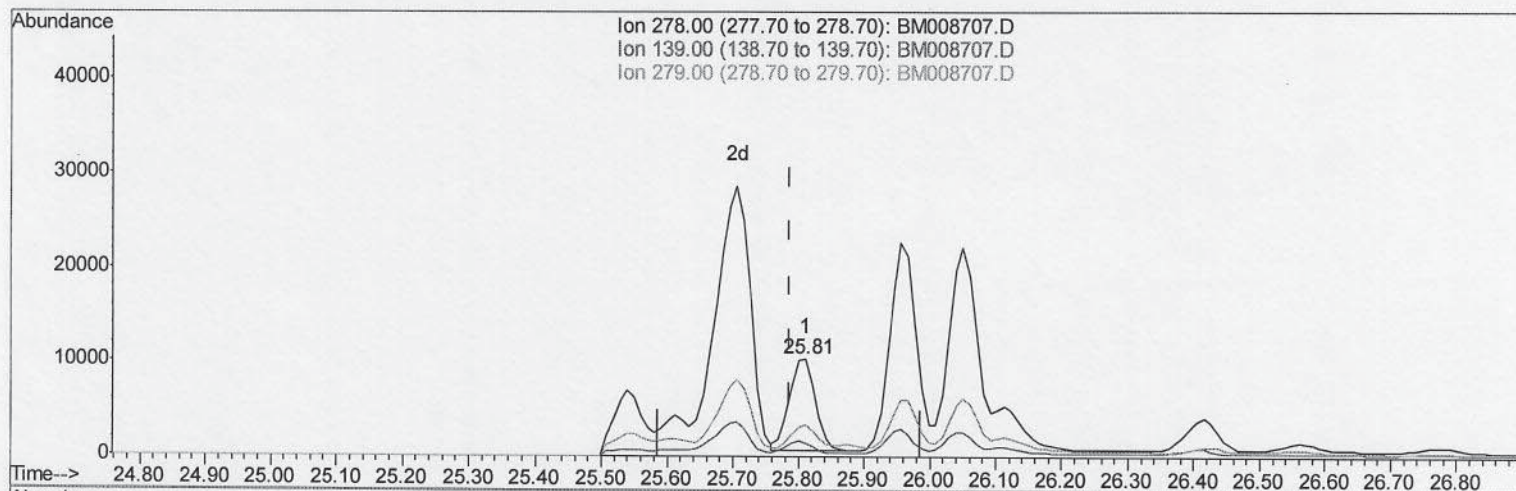
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
 Data File : BM008707.D
 Acq On : 28 Dec 2016 23:21
 Operator : UM/SJ
 Sample : H6067-05
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA7F6

Quant Time: Dec 29 04:54:57 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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(25) Dibenzo(a,h)anthracene

25.810min (+0.024) 1.84ng/ul

response 26533

Ion	Exp%	Act%
278.00	100	100
139.00	21.70	14.29#
279.00	32.40	32.50
0.00	0.00	0.00

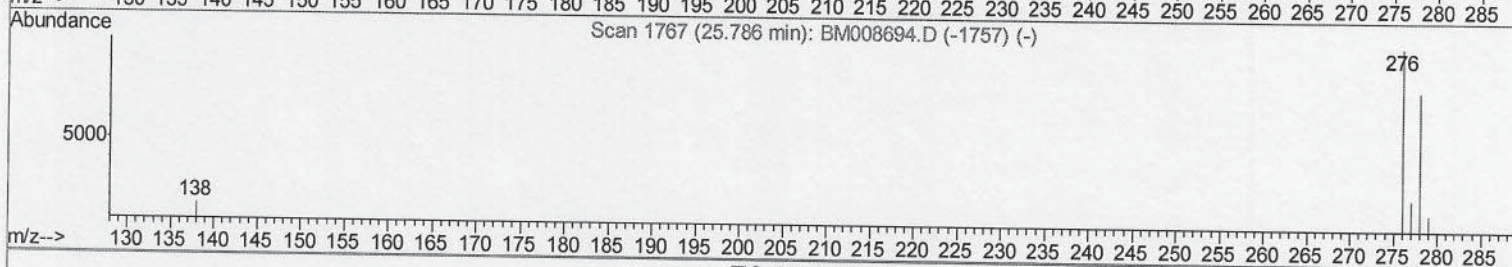
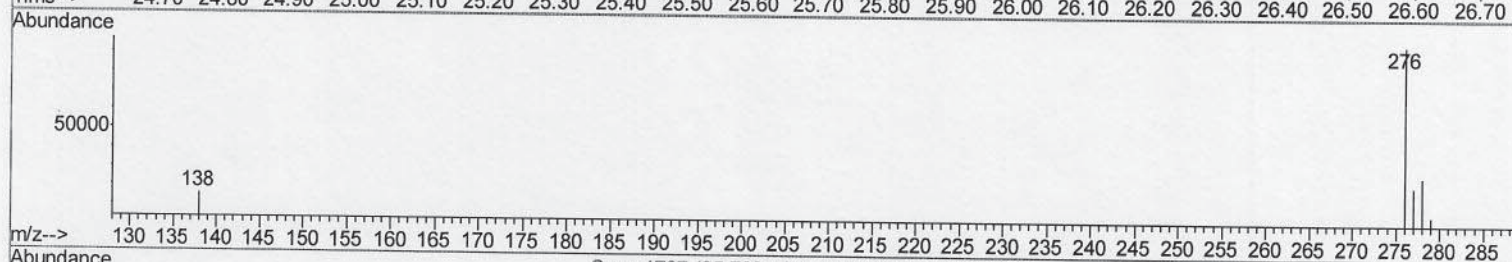
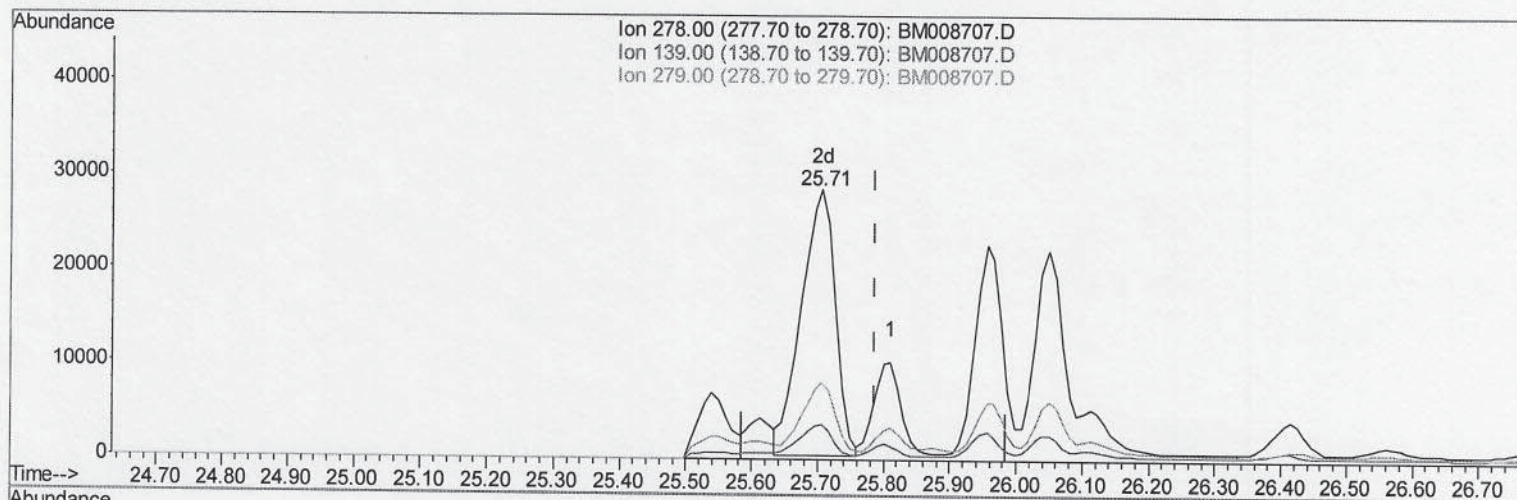
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
 Data File : BM008707.D
 Acq On : 28 Dec 2016 23:21
 Operator : UM/SJ
 Sample : H6067-05
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA7F6

Quant Time: Dec 29 04:54:57 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: BM008707.D

(25) Dibenzo(a,h)anthracene

25.706min (-0.080) 6.97ng/ul m

response 100411

Ion Exp% Act%

278.00 100 100

139.00 21.70 12.59#

279.00 32.40 28.08

0.00 0.00 0.00

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Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008707.D
Acq On : 28 Dec 2016 23:21
Operator : UM/SJ
Sample : H6067-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DA7F6

Quant Time: Dec 29 05:03:44 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

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.65	152	535m	0.40	ng/ul	-0.17
2) Naphthalene-d8	10.43	136	1519	0.40	ng/ul	-0.13
6) Acenaphthene-d10	14.28	164	1009m	0.40	ng/ul	-0.07
10) Phenanthrene-d10	17.04	188	1955m	0.40	ng/ul	-0.07
16) Chrysene-d12	21.24	240	2066m	0.40	ng/ul	-0.04
20) Perylene-d12	23.54	264	4142	0.40	ng/ul	0.01

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System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Methylnaphthalene-d10	12.05	152	314	0.13	ng/ul	-0.11
14) Fluoranthene-d10	19.08	212	1136m	0.21	ng/ul	-0.06

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Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	10.48	128	2543	0.60	ng/ul	97
5) 2-Methylnaphthalene	12.12	142	588	0.20	ng/ul	100
7) Acenaphthylene	14.00	152	47825	10.48	ng/ul#	94
8) Acenaphthene	14.35	153	1338	0.39	ng/ul#	89
9) Fluorene	15.34	166	3976	1.01	ng/ul	87
12) Phenanthrene	17.07	178	21762m	3.65	ng/ul	
13) Anthracene	17.16	178	101822	17.56	ng/ul#	94
15) Fluoranthene	19.10	202	136248	18.62	ng/ul	94
17) Pyrene	19.48	202	153830	19.26	ng/ul	95
18) Benzo(a)anthracene	21.22	228	295584m	43.57	ng/ul	
19) Chrysene	21.28	228	409163	55.09	ng/ul	92
21) Benzo(b)fluoranthene	22.81	252	749512m	45.93	ng/ul	
22) Benzo(k)fluoranthene	22.85	252	146003m	9.18	ng/ul	
23) Benzo(a)pyrene	23.38	252	416955	27.57	ng/ul#	75
24) Indeno(1,2,3-cd)pyrene	25.72	276	300100	16.65	ng/ul#	90
25) Dibenzo(a,h)anthracene	25.71	278	100411m	6.97	ng/ul	
26) Benzo(g,h,i)perylene	26.40	276	266092	17.22	ng/ul#	87

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