

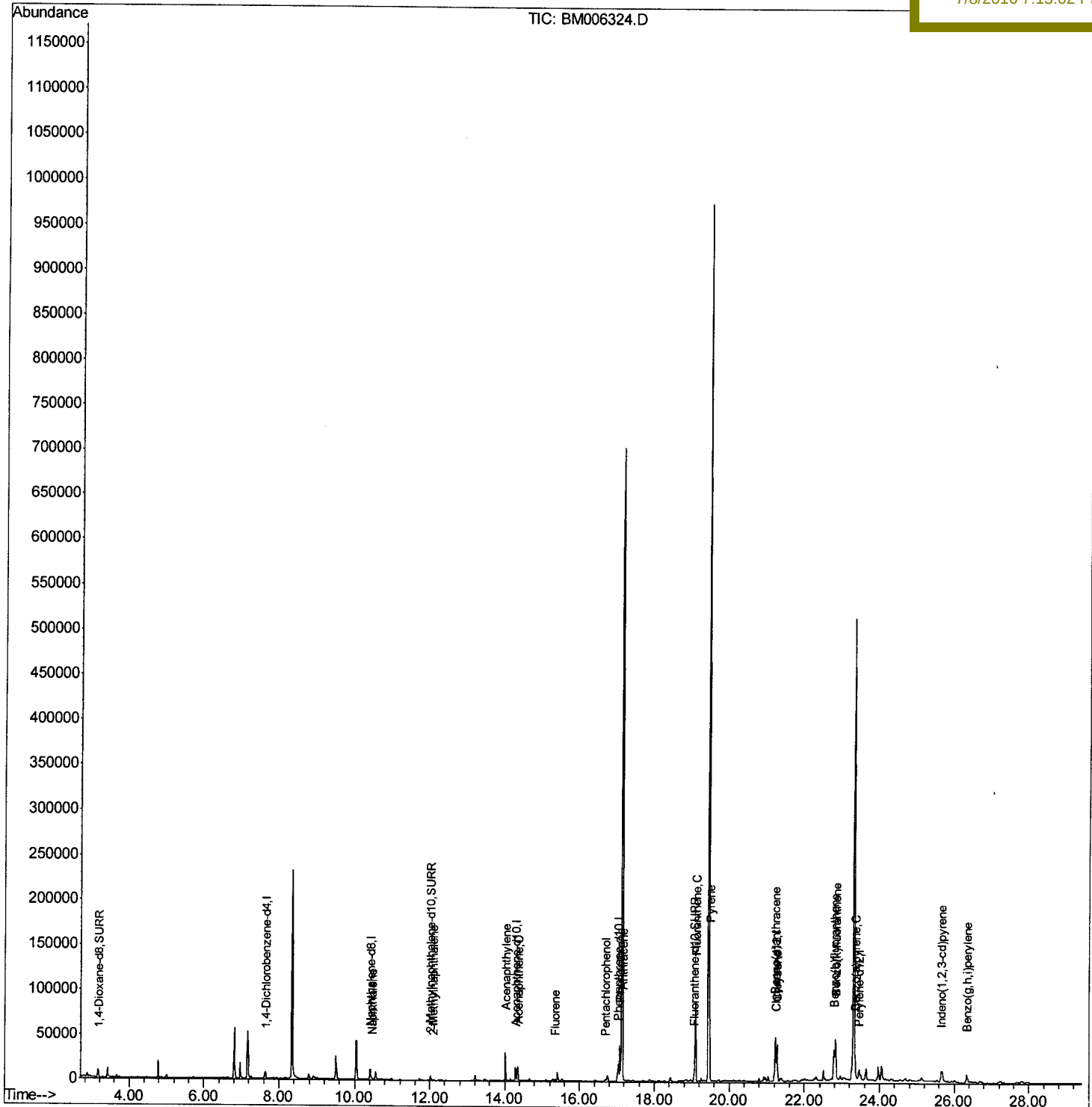
Data Path : Z:\HPCHEM1\BNA M\Data\BM070816\
Data File : BM006324.D
Acq On : 07 Jul 2016 18:04
Operator : UM/SJ
Sample : H3811-07MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 08 04:27:50 2016
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM070716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 08 03:28:13 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
A4TV6MS

Manual Integration

umangi
7/8/2016 7:13:02 PM



Quantitation Report (Qedit)

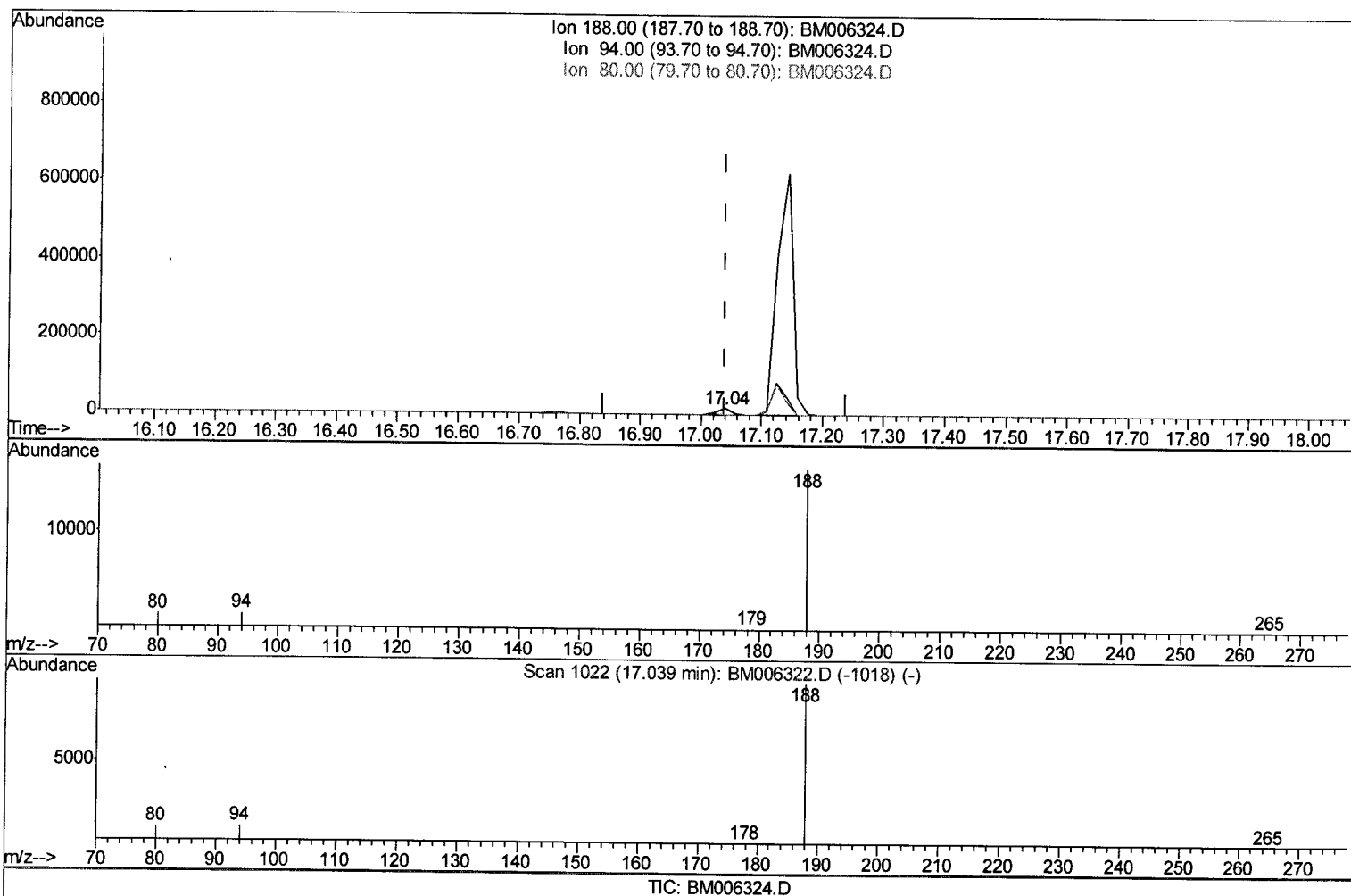
Data Path : Z:\HPCHEM1\BNA M\Data\BM070816\
 Data File : BM006324.D
 Acq On : 07 Jul 2016 18:04
 Operator : UM/SJ
 Sample : H3811-07MS
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4TV6MS

Manual Integration

umangi
 7/8/2016 7:13:02 PM

Quant Time: Jul 08 03:46:10 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM070716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 08 03:28:13 2016
 Response via : Initial Calibration



(12) Phenanthrene-d10 (I)

17.039min (+0.000) 0.40ng/ul m

response 24187

Ion	Exp%	Act%
188.00	100	100
94.00	11.70	8.75#
80.00	11.90	8.27#
0.00	0.00	0.00

U.M
 07/12/16

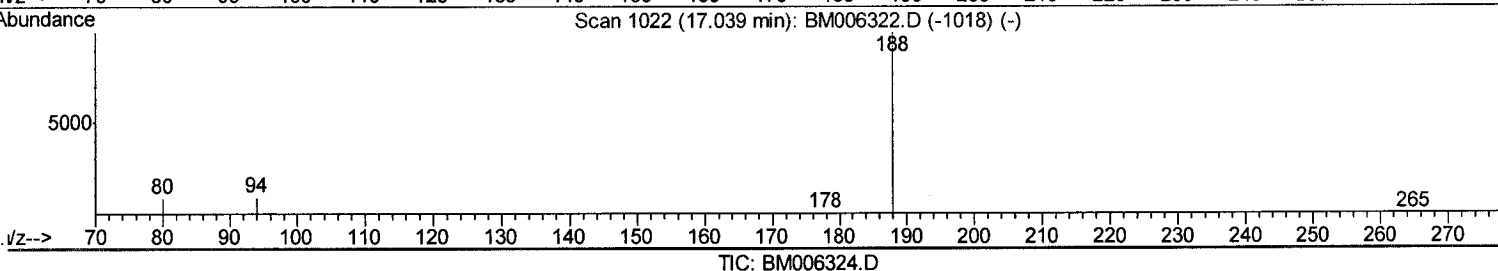
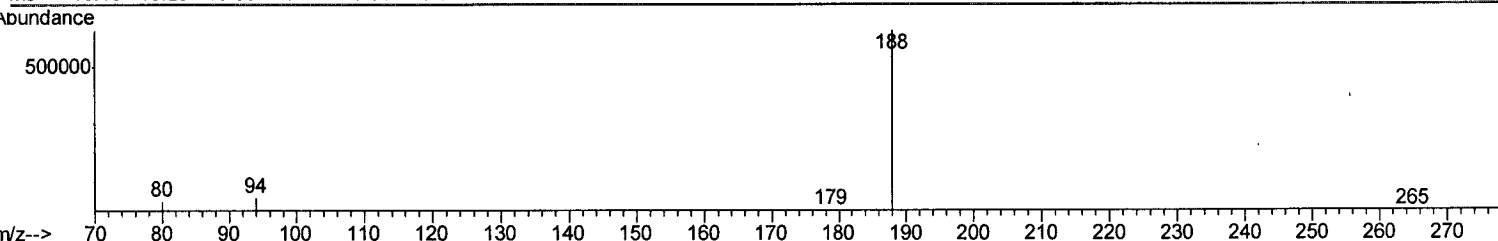
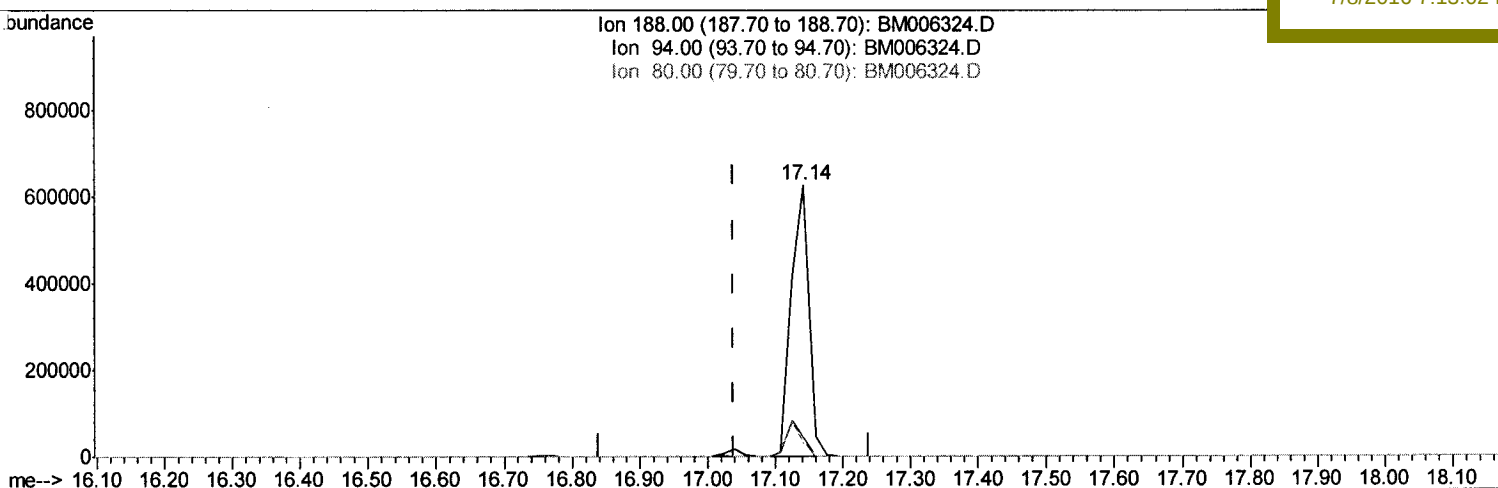
Data Path : Z:\HPCHEM1\BNA M\Data\BM070816\
Data File : BM006324.D
Acq On : 07 Jul 2016 18:04
Operator : UM/SJ
Sample : H3811-07MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4TV6MS

Manual Integration

APPROVED
umangi
7/8/2016 7:13:02 PM

Quant Time: Jul 08 03:46:10 2016
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM070716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 08 03:28:13 2016
Response via : Initial Calibration



TIC: BM006324.D

(12) Phenanthrene-d10 (I)

17.142min (+0.103) 0.40ng/ul

response 1129081

Ion	Exp%	Act%
188.00	100	100
94.00	11.70	7.02#
80.00	11.90	5.16#
0.00	0.00	0.00

Quantitation Report (Qedit)

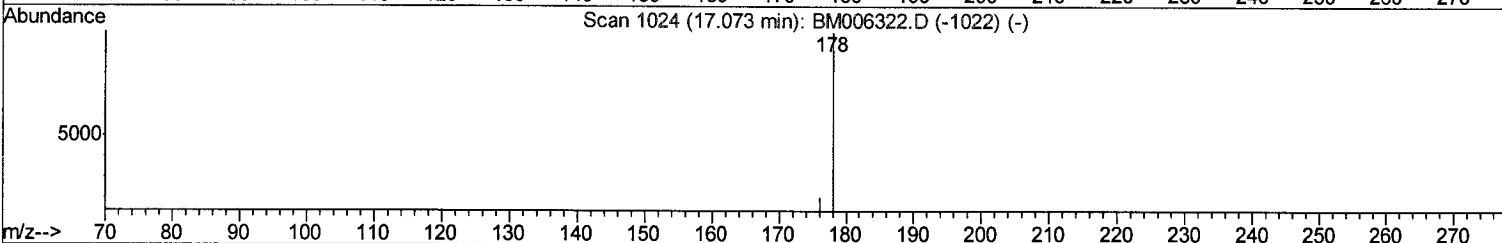
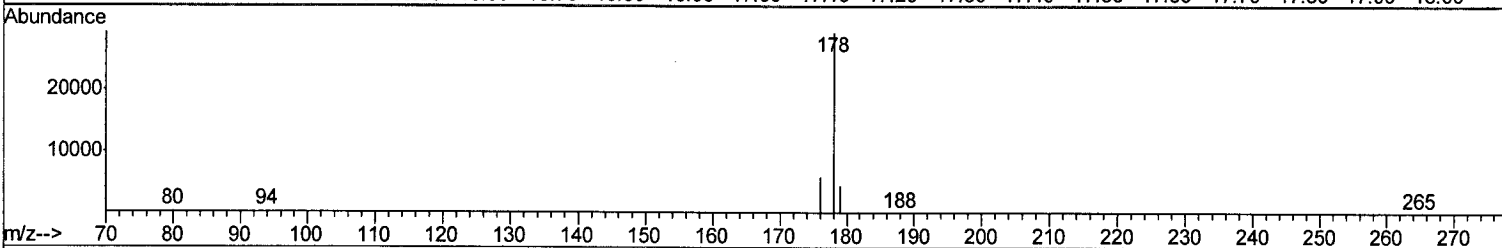
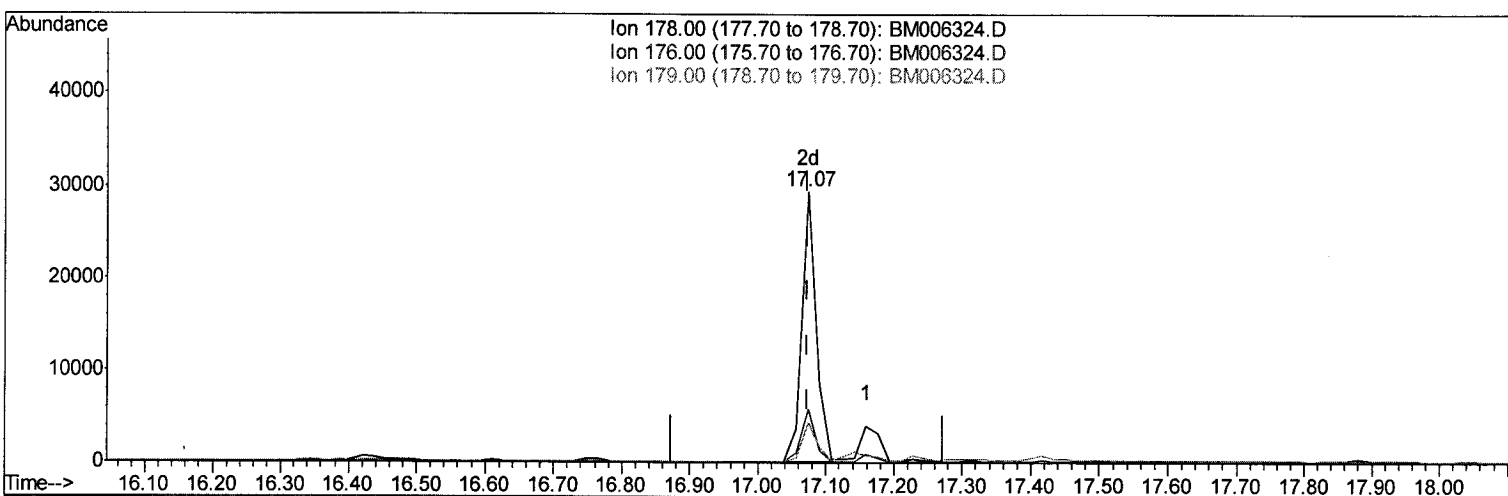
Data Path : Z:\HPCHEM1\BNA M\Data\BM070816\
 Data File : BM006324.D
 Acq On : 07 Jul 2016 18:04
 Operator : UM/SJ
 Sample : H3811-07MS
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4TV6MS

Manual Integration

umangi
 7/8/2016 7:13:02 PM

Quant Time: Jul 08 04:22:30 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM070716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 08 03:28:13 2016
 Response via : Initial Calibration



TIC: BM006324.D

(14) Phenanthrene

17.073min (+0.000) 0.64ng/ul m

response 42921

Ion	Exp%	Act%
178.00	100	100
176.00	16.20	20.00#
179.00	17.70	15.14
0.00	0.00	0.00

U.M
 07/12/16

Quantitation Report (Qedit)

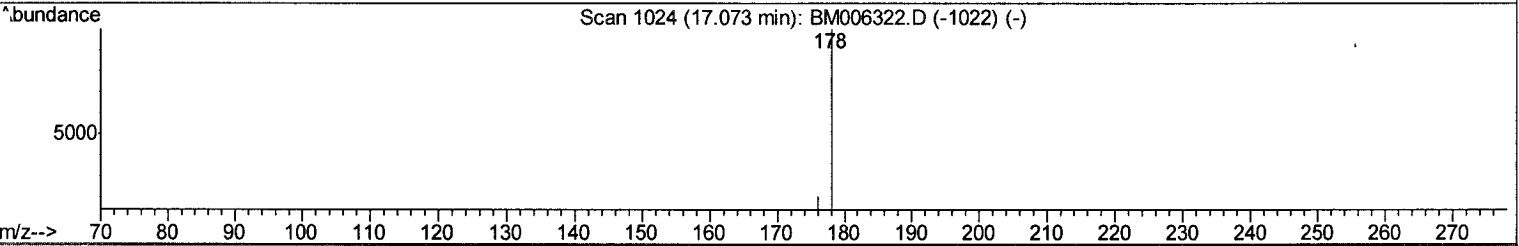
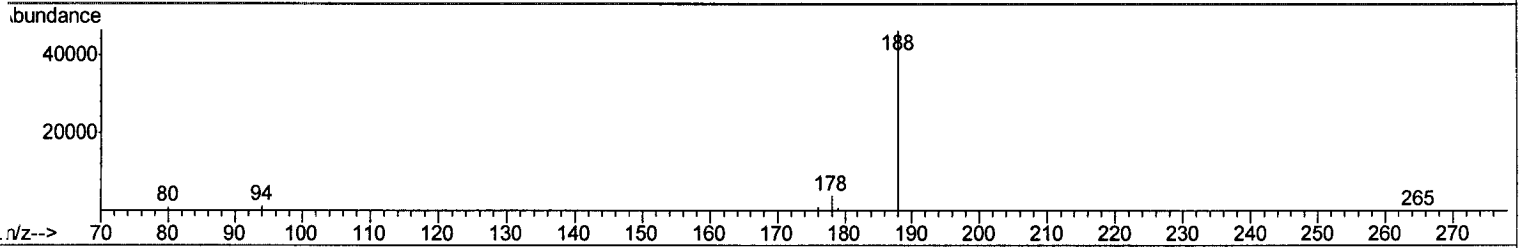
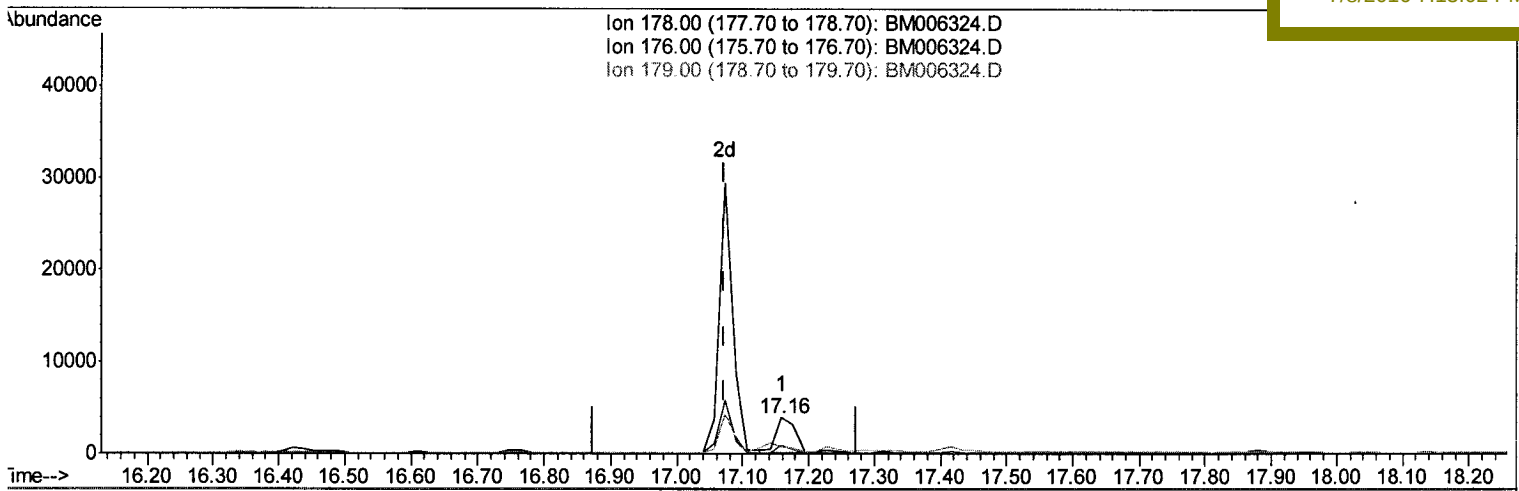
Data Path : Z:\HPCHEM1\BNA M\Data\BM070816\
 Data File : BM006324.D
 Acq On : 07 Jul 2016 18:04
 Operator : UM/SJ
 Sample : H3811-07MS
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4TV6MS

Quant Time: Jul 08 04:22:30 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM070716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 08 03:28:13 2016
 Response via : Initial Calibration

Manual Integration

APPROVED
 umangi
 7/8/2016 7:13:02 PM



TIC: BM006324.D

(14) Phenanthrene

17.159min (+0.086) 0.12ng/ul

response 8045

Ion	Exp%	Act%
178.00	100	100
176.00	16.20	23.22#
179.00	17.70	20.53
0.00	0.00	0.00

Quantitation Report (Qedit)

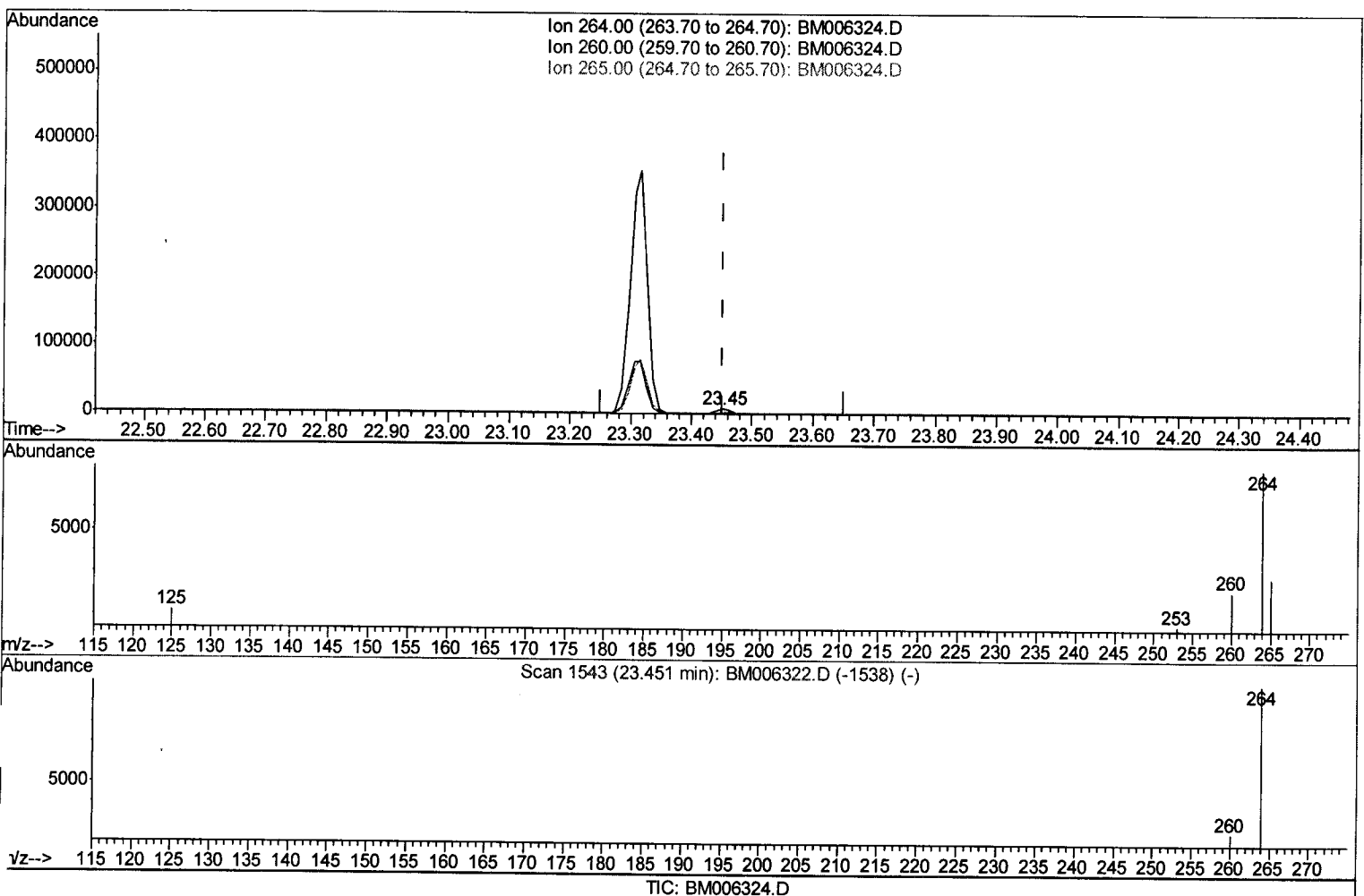
Data Path : Z:\HPCHEM1\BNA M\Data\BM070816\
 Data File : BM006324.D
 Acq On : 07 Jul 2016 18:04
 Operator : UM/SJ
 Sample : H3811-07MS
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4TV6MS

Manual Integration

APPROVED
 umangi
 7/8/2016 7:13:02 PM

Quant Time: Jul 08 04:22:30 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM070716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 08 03:28:13 2016
 Response via : Initial Calibration



(22) Perylene-d12 (I)

23.451min (+0.000) 0.40ng/ul m

response 12811

Ion	Exp%	Act%
264.00	100	100
260.00	25.60	27.72
265.00	38.20	36.26
0.00	0.00	0.00

U.M
 07/12/16

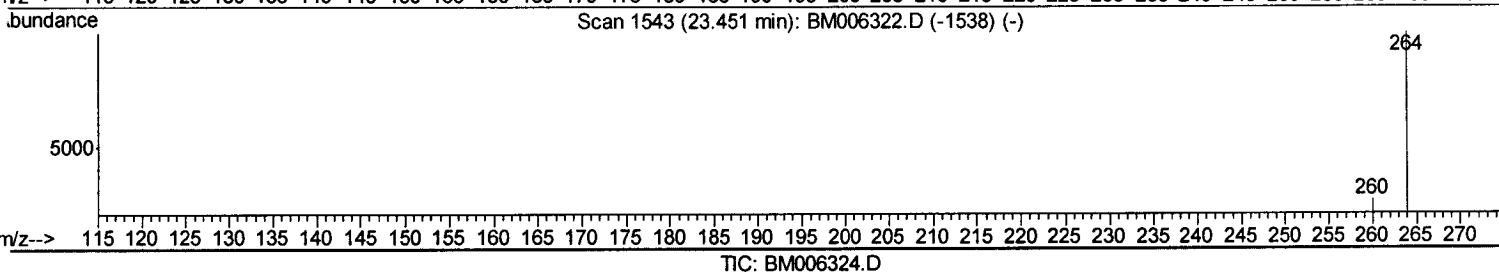
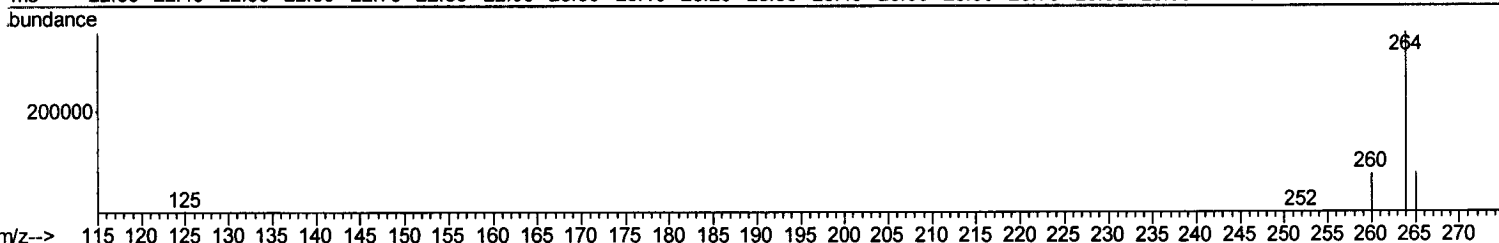
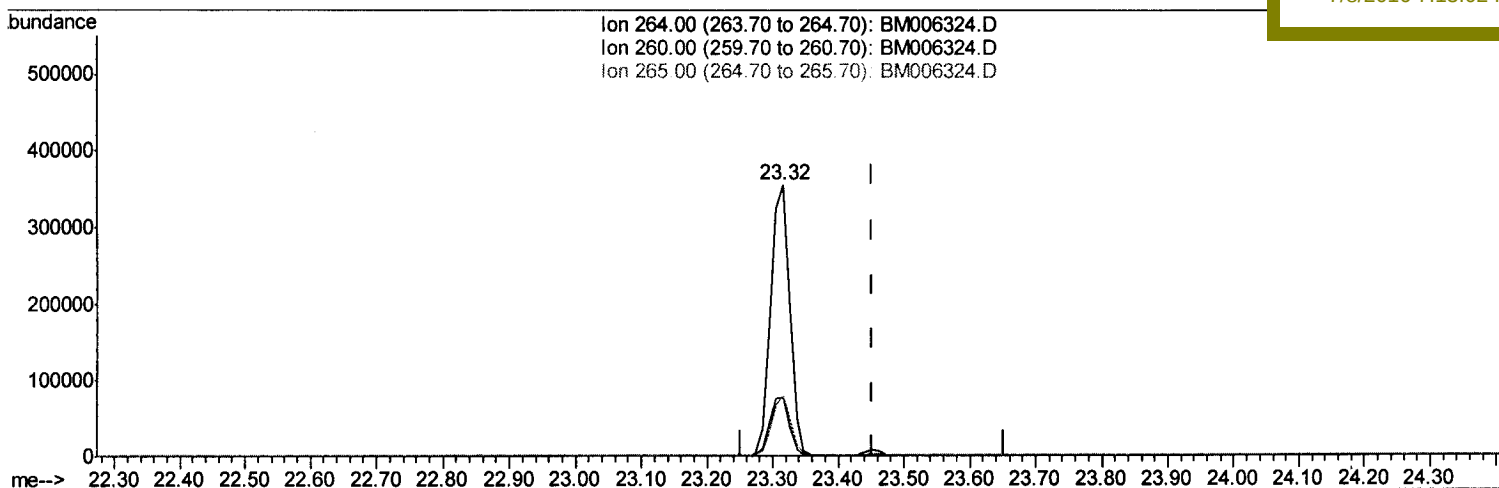
Data Path : Z:\HPCHEM1\BNA M\Data\BM070816\
Data File : BM006324.D
Acq On : 07 Jul 2016 18:04
Operator : UM/SJ
Sample : H3811-07MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4TV6MS

Quant Time: Jul 08 04:22:30 2016
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM070716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 08 03:28:13 2016
Response via : Initial Calibration

Manual Integration

APPROVED
umangi
7/8/2016 7:13:02 PM



(22) Perylene-d12 (I)

23.316min (-0.136) 0.40ng/ul

response 701354

Ion	Exp%	Act%
264.00	100	100
260.00	25.60	21.51
265.00	38.20	22.13#
0.00	0.00	0.00

Quantitation Report (Qedit)

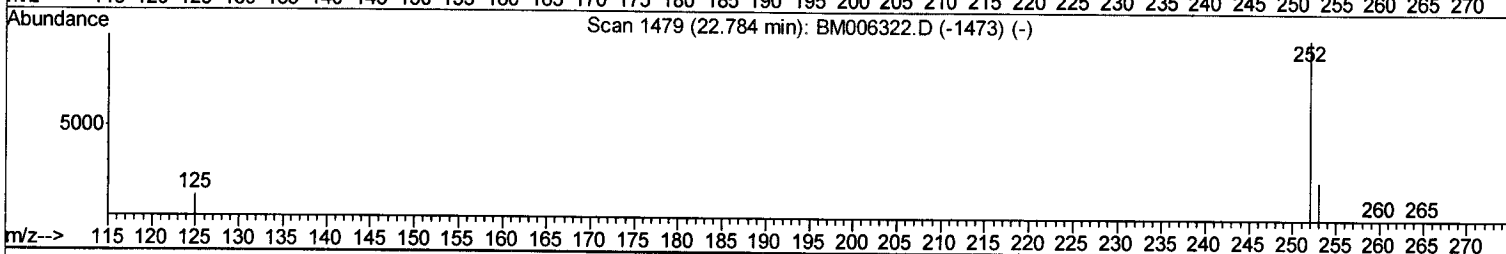
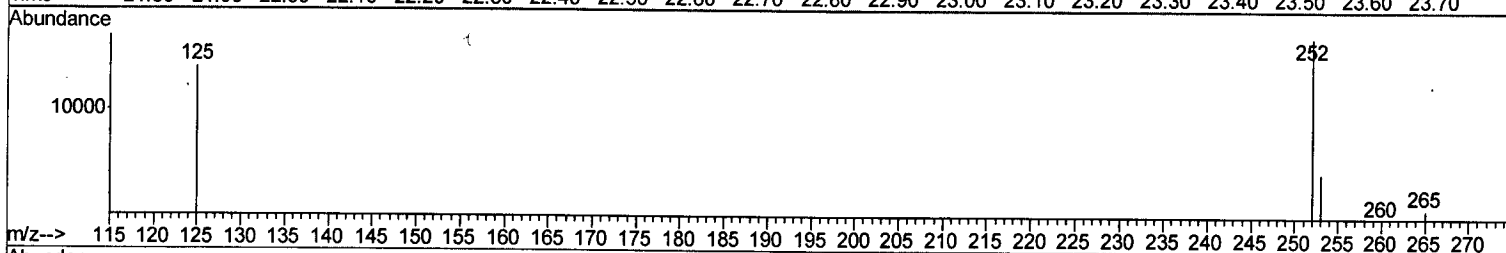
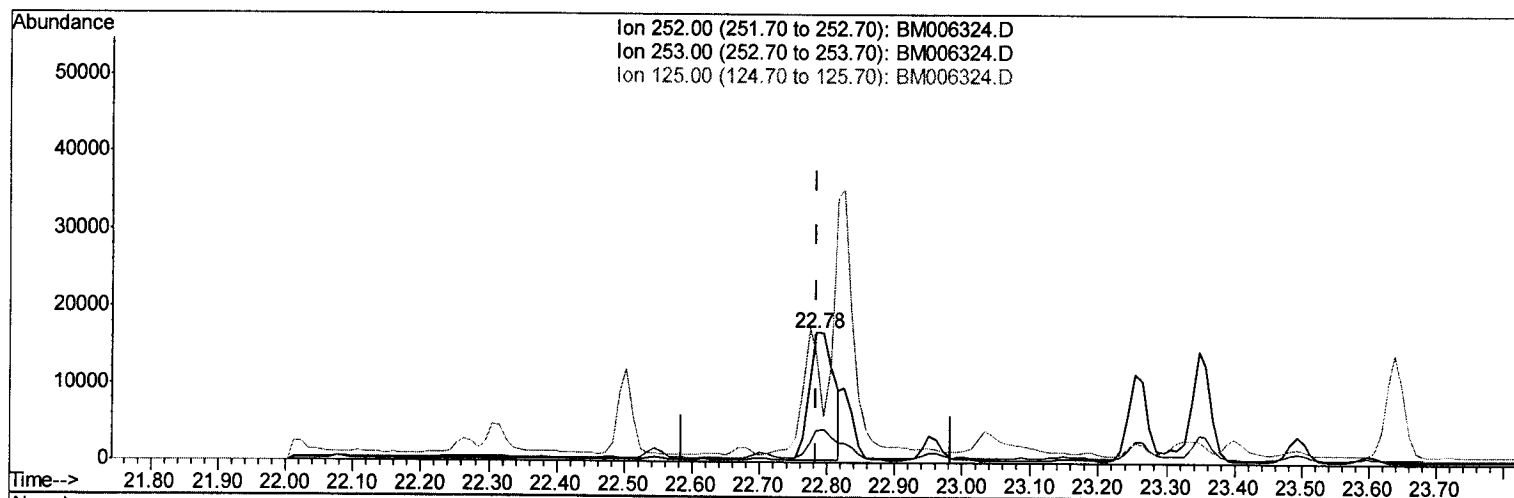
Data Path : Z:\HPCHEM1\BNA M\Data\BM070816\
 Data File : BM006324.D
 Acq On : 07 Jul 2016 18:04
 Operator : UM/SJ
 Sample : H3811-07MS
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4TV6MS

Manual Integration

Quant Time: Jul 08 04:22:30 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM070716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 08 03:28:13 2016
 Response via : Initial Calibration

APPROVED
 umangi
 7/8/2016 7:13:02 PM



TIC: BM006324.D

(23) Benzo(b)fluoranthene

22.784min (+0.000) 0.92ng/ul m *U.M*
07/12/16

response 42190

Ion	Exp%	Act%
252.00	100	100
253.00	22.70	24.91
125.00	14.40	83.12#
0.00	0.00	0.00

Quantitation Report (Qedit)

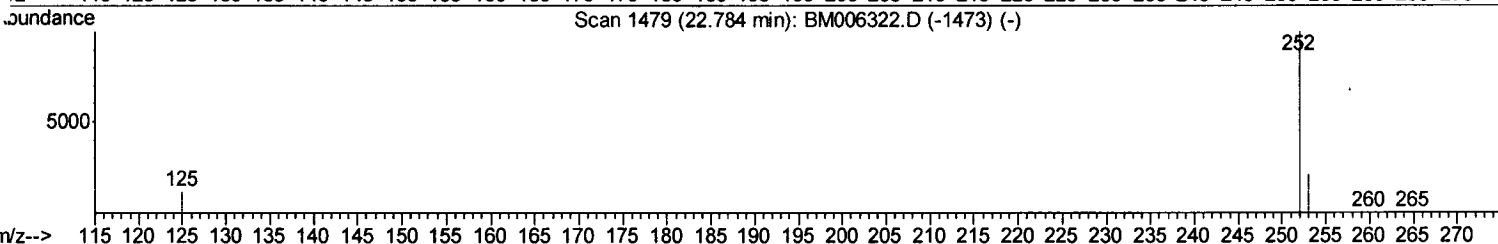
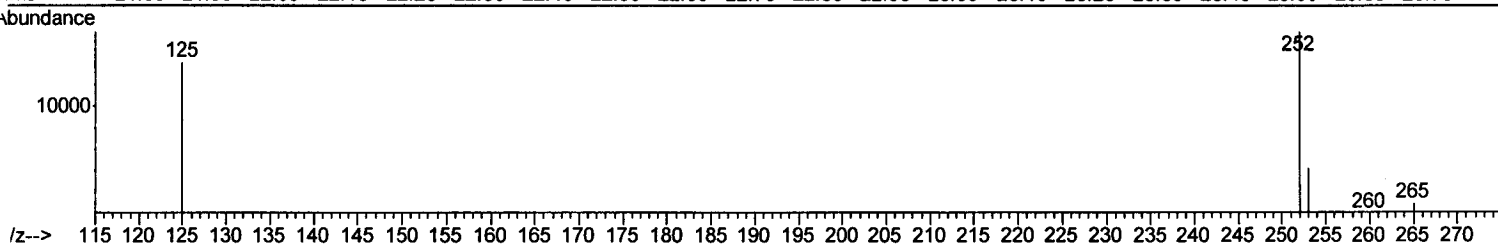
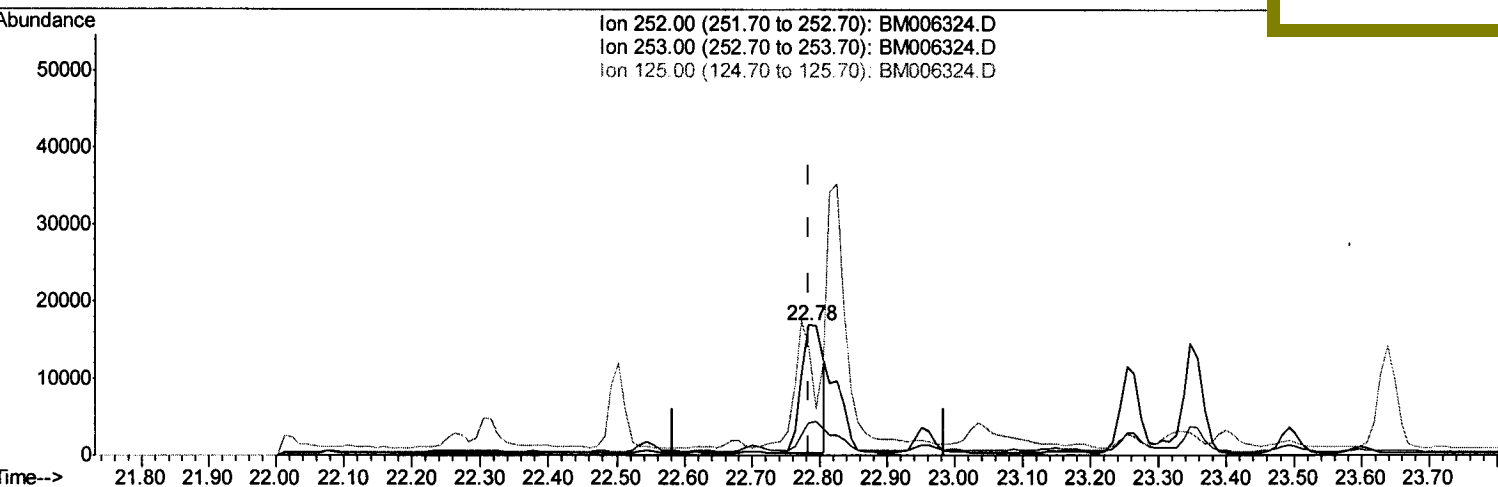
Data Path : Z:\HPCHEM1\BNA M\Data\BM070816\
Data File : BM006324.D
Acq On : 07 Jul 2016 18:04
Operator : UM/SJ
Sample : H3811-07MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4TV6MS

Manual Integration

umangi
7/8/2016 7:13:02 PM

Quant Time: Jul 08 04:22:30 2016
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM070716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 08 03:28:13 2016
Response via : Initial Calibration



TIC: BM006324.D

(23) Benzo(b)fluoranthene

22.784min (+0.000) 0.79ng/ul

response 36361

Ion	Exp%	Act%
252.00	100	100
253.00	22.70	24.91
125.00	14.40	83.12#
0.00	0.00	0.00

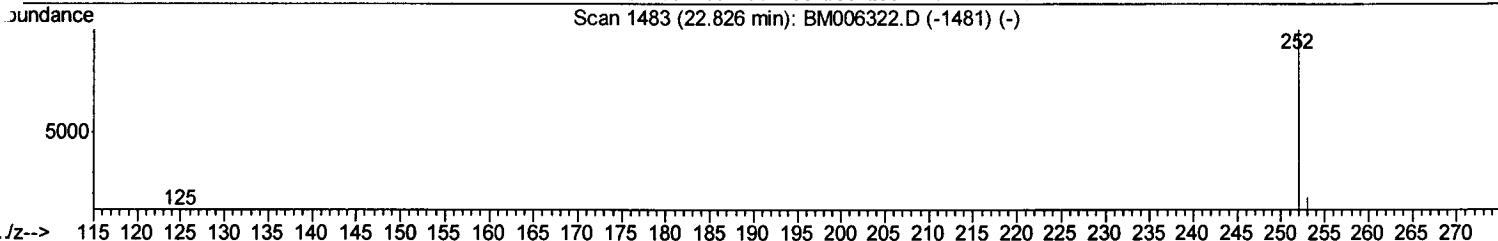
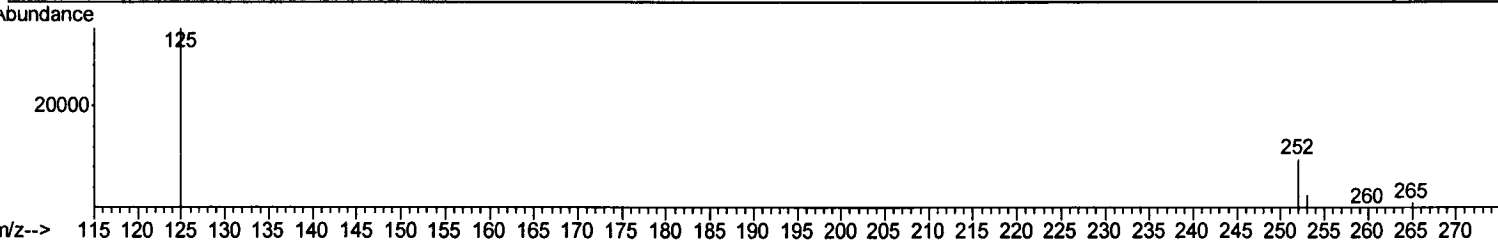
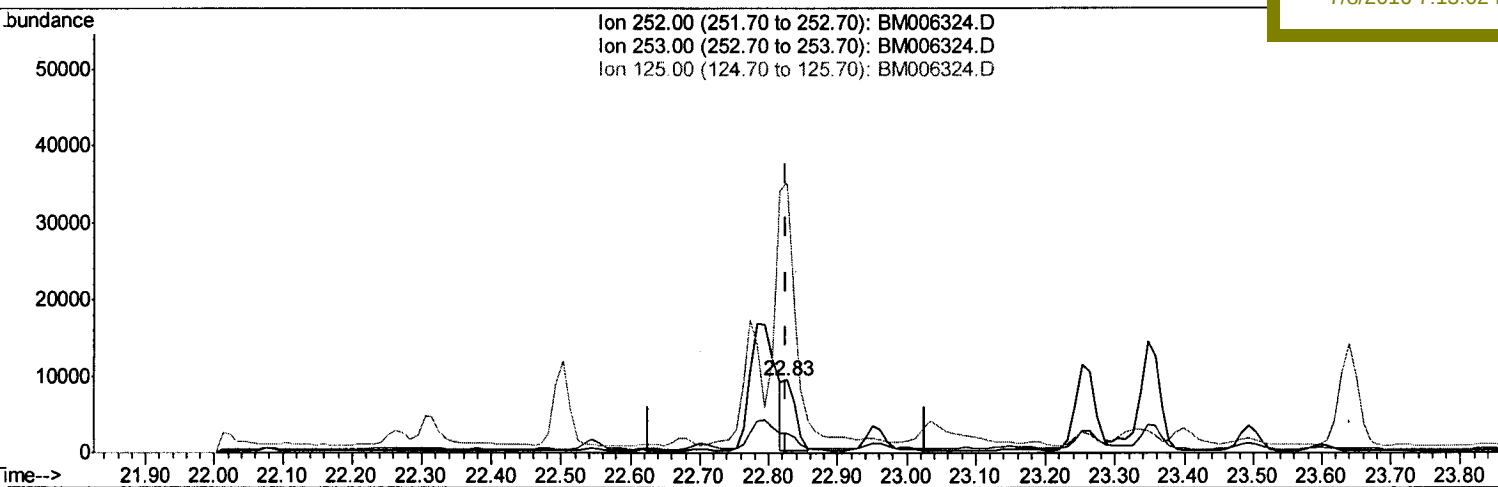
Data Path : Z:\HPCHEM1\BNA M\Data\BM070816\
Data File : BM006324.D
Acq On : 07 Jul 2016 18:04
Operator : UM/SJ
Sample : H3811-07MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4TV6MS

Manual Integration

umangi
7/8/2016 7:13:02 PM

Quant Time: Jul 08 04:22:30 2016
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM070716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 08 03:28:13 2016
Response via : Initial Calibration



TIC: BM006324.D

(24) Benzo(k)fluoranthene

22.826min (+0.000) 0.25ng/ul m U.M

response 10881

Ion	Exp%	Act%
252.00	100	100
253.00	24.80	27.53
125.00	13.00	368.50#
0.00	0.00	0.00

07/12/16

Quantitation Report (Qedit)

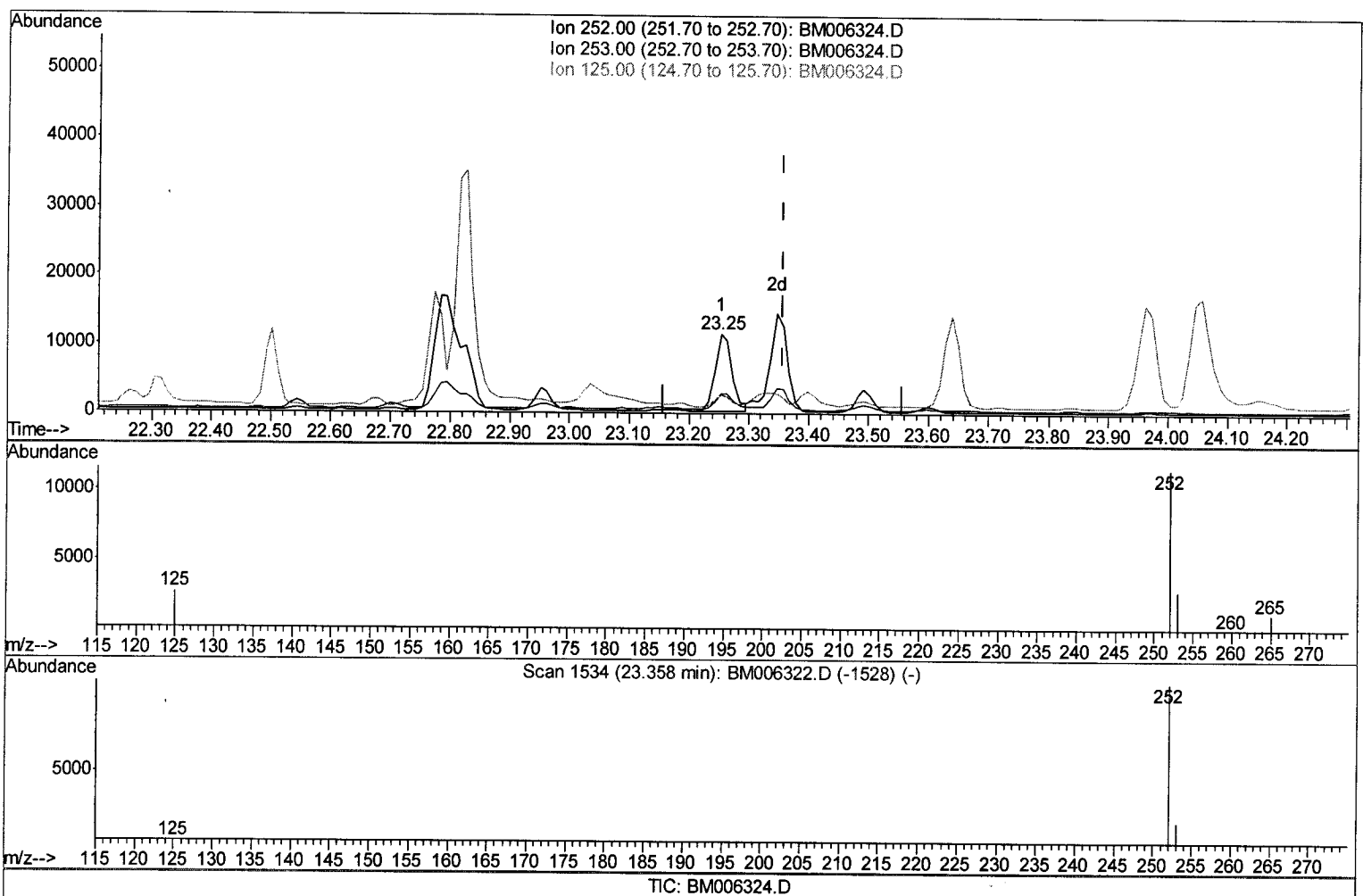
Data Path : Z:\HPCHEM1\BNA M\Data\BM070816\
 Data File : BM006324.D
 Acq On : 07 Jul 2016 18:04
 Operator : UM/SJ
 Sample : H3811-07MS
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4TV6MS

Manual Integration

umangi
 7/8/2016 7:13:02 PM

Quant Time: Jul 08 04:22:30 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM070716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 08 03:28:13 2016
 Response via : Initial Calibration



(25) Benzo(a)pyrene (C)
 23.253min (-0.104) 0.52ng/ul
 response 22055

Ion	Exp%	Act%
252.00	100	100
253.00	24.30	24.86
125.00	15.90	23.05#
0.00	0.00	0.00

Quantitation Report (Qedit)

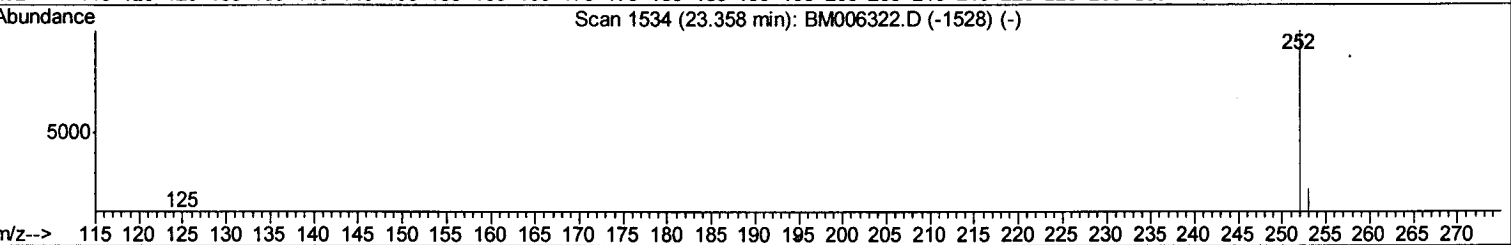
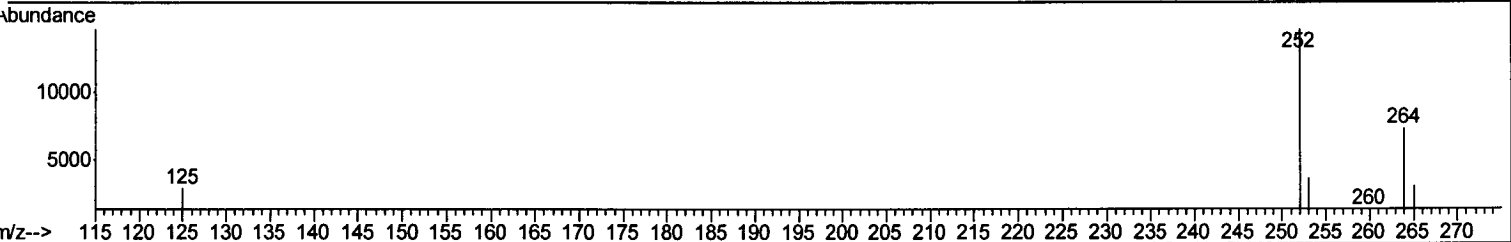
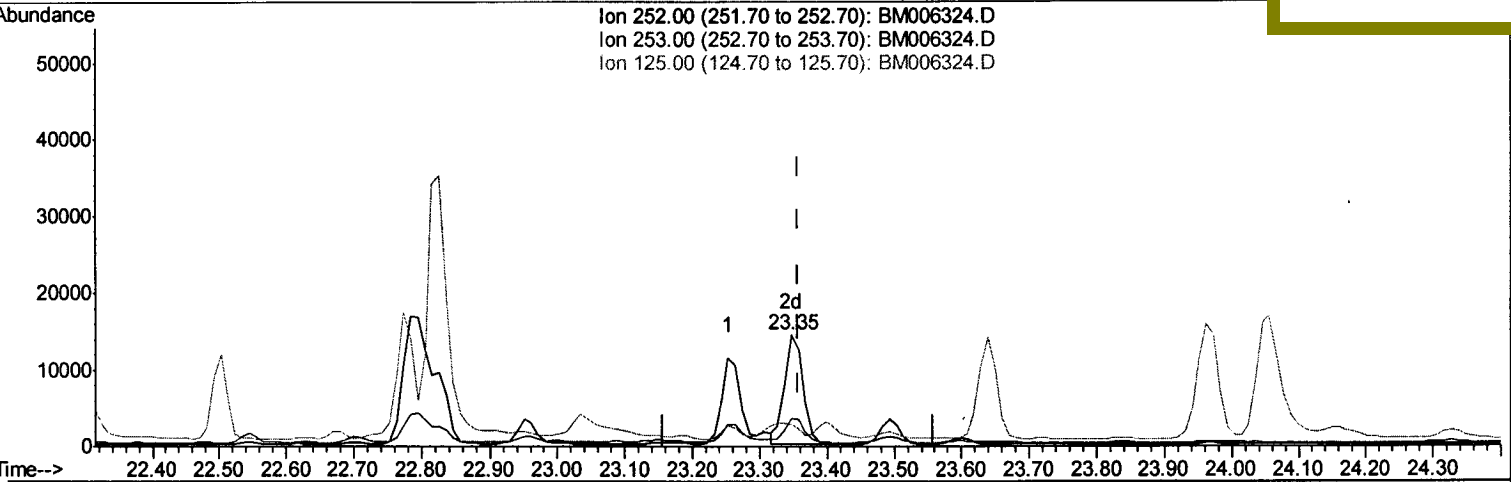
Data Path : Z:\HPCHEM1\BNA M\Data\BM070816\
 Data File : BM006324.D
 Acq On : 07 Jul 2016 18:04
 Operator : UM/SJ
 Sample : H3811-07MS
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4TV6MS

Manual Integration

umangi
 7/8/2016 7:13:02 PM

Quant Time: Jul 08 04:22:30 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM070716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 08 03:28:13 2016
 Response via : Initial Calibration



TIC: BM006324.D

(25) Benzo(a)pyrene (C)

23.347min (-0.010) 0.64ng/ul m *U.M*
07/12/16

response 27237

Ion	Exp%	Act%
252.00	100	100
253.00	24.30	24.79
125.00	15.90	19.57#
0.00	0.00	0.00

Quantitation Report (Qedit)

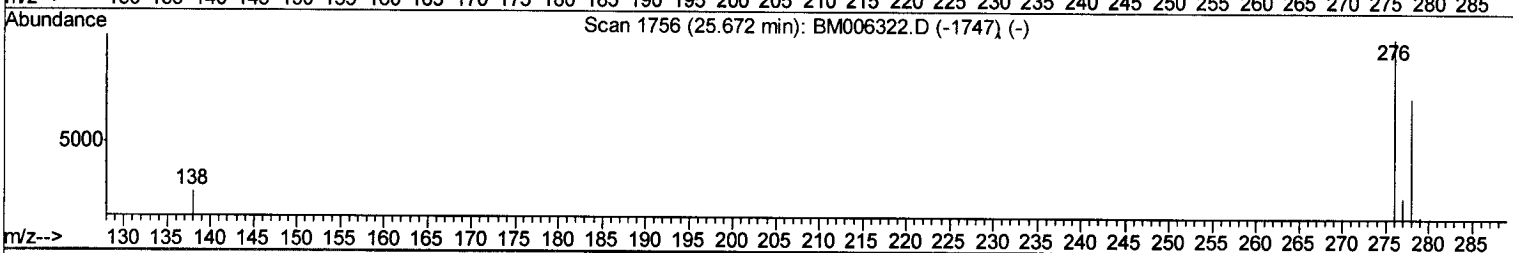
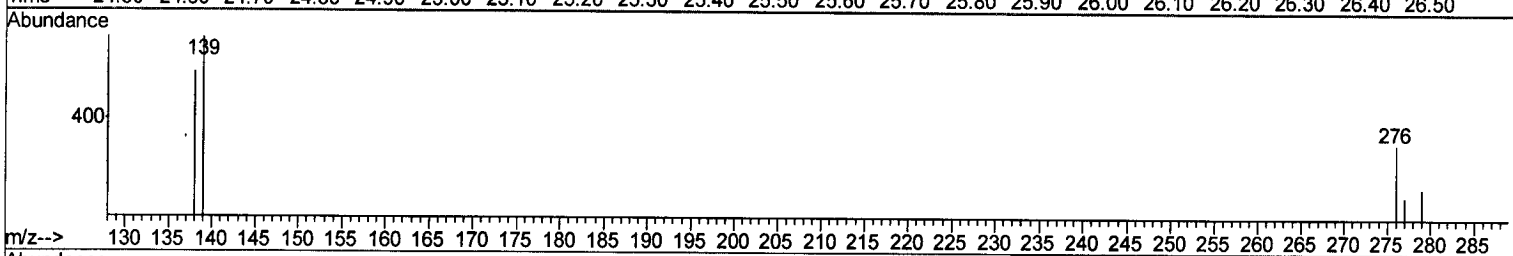
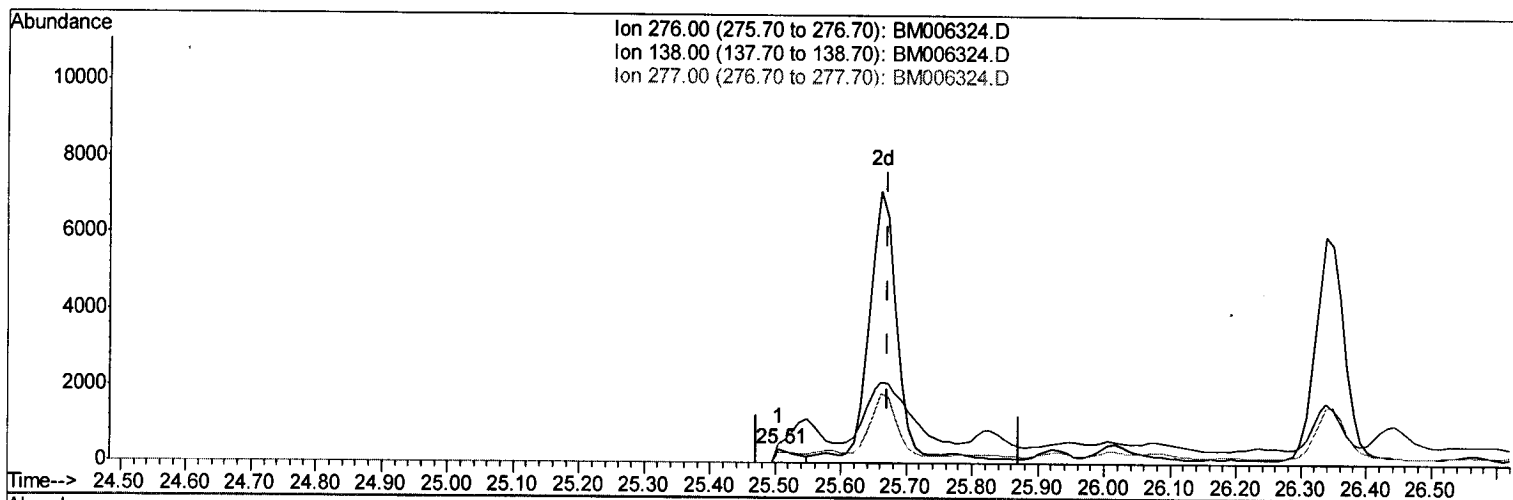
Data Path : Z:\HPCHEM1\BNA M\Data\BM070816\
 Data File : BM006324.D
 Acq On : 07 Jul 2016 18:04
 Operator : UM/SJ
 Sample : H3811-07MS
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4TV6MS

Manual Integration

umangi
 7/8/2016 7:13:02 PM

Quant Time: Jul 08 04:22:30 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM070716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 08 03:28:13 2016
 Response via : Initial Calibration



TIC: BM006324.D

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

25.505min (-0.167) 0.02ng/ul

response 784

Ion	Exp%	Act%
276.00	100	100
138.00	20.40	0.00#
277.00	24.80	98.47#
0.00	0.00	0.00

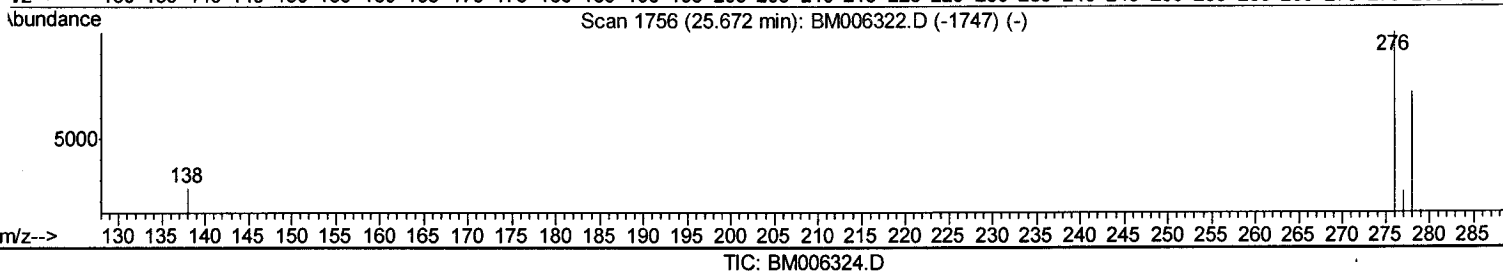
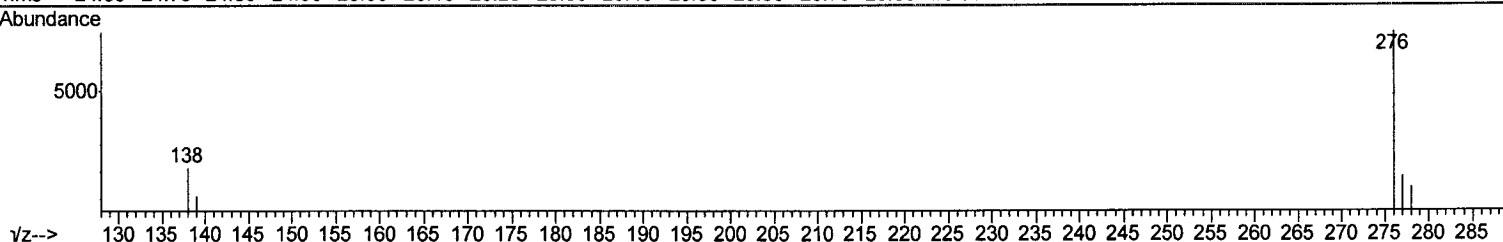
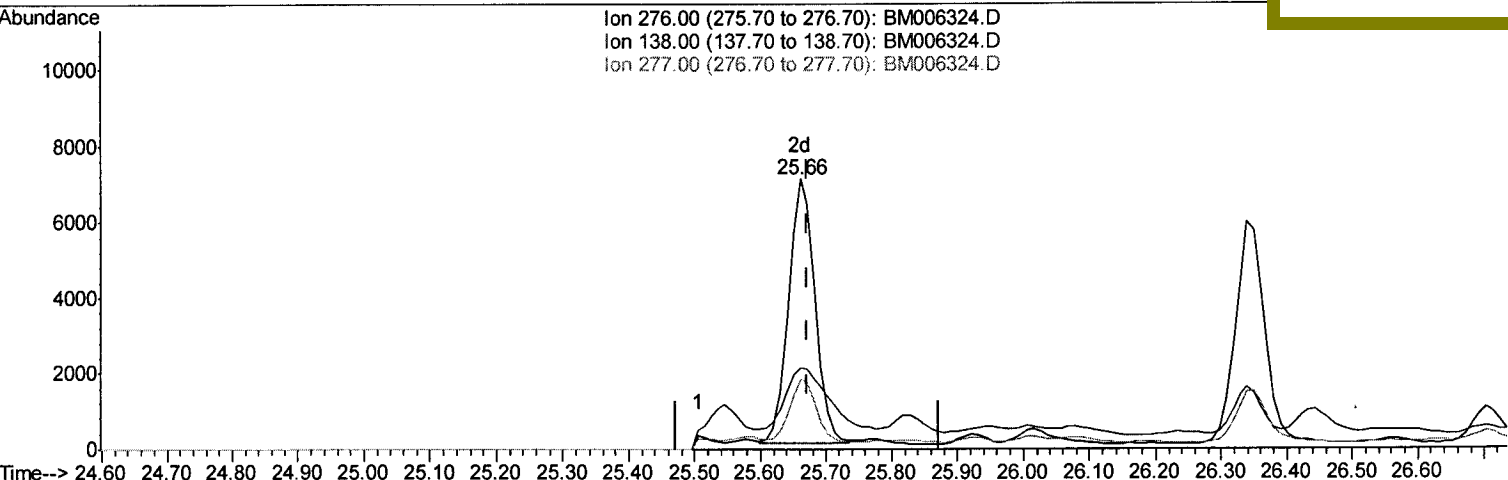
Data Path : Z:\HPCHEM1\BNA M\Data\BM070816\
Data File : BM006324.D
Acq On : 07 Jul 2016 18:04
Operator : UM/SJ
Sample : H3811-07MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampled :
A4TV6MS

Quant Time: Jul 08 04:22:30 2016
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM070716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 08 03:28:13 2016
Response via : Initial Calibration

Manual Integration

umangi
7/8/2016 7:13:02 PM



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

25.661min (-0.010) 0.41ng/ul m

response 19467

Ion	Exp%	Act%
-----	------	------

276.00	100	100
--------	-----	-----

138.00	20.40	0.00#
--------	-------	-------

277.00	24.80	3.97#
--------	-------	-------

0.00	0.00	0.00
------	------	------

U.M
07/12/16

Quantitation Report (Qedit)

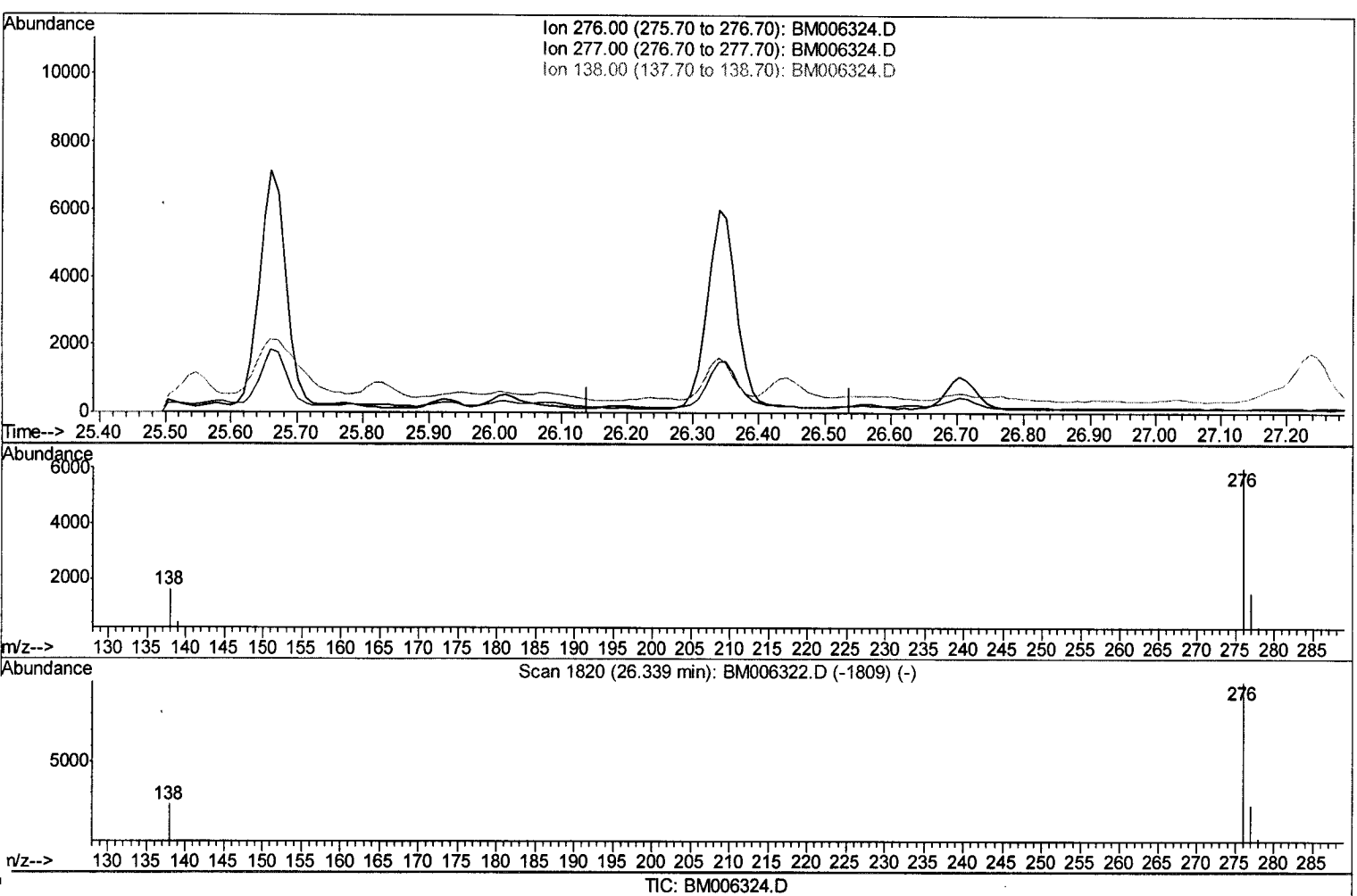
Data Path : Z:\HPCHEM1\BNA M\Data\BM070816\
 Data File : BM006324.D
 Acq On : 07 Jul 2016 18:04
 Operator : UM/SJ
 Sample : H3811-07MS
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4TV6MS

Manual Integration

umangi
 7/8/2016 7:13:02 PM

Quant Time: Jul 08 04:22:30 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM070716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 08 03:28:13 2016
 Response via : Initial Calibration



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

26.339min (-26.339) 0.00ng/ul

response 0

Ion	Exp%	Act%
276.00	100	0.00
277.00	23.60	0.00#
138.00	28.10	0.00#
0.00	0.00	0.00

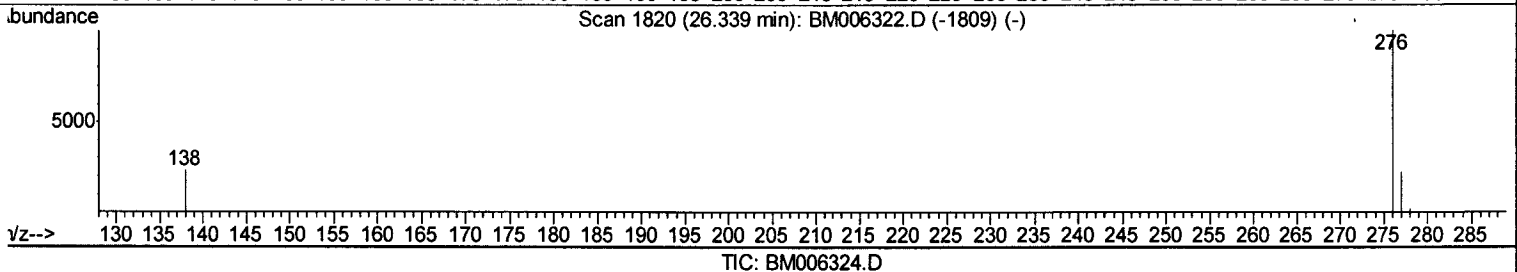
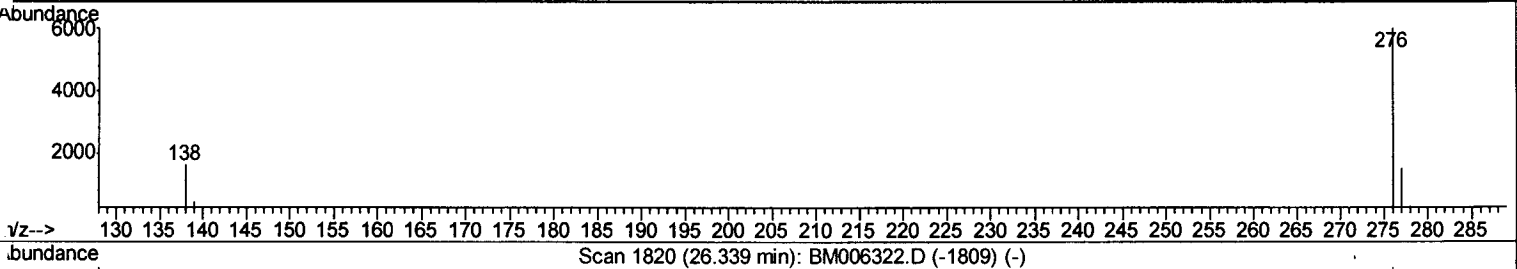
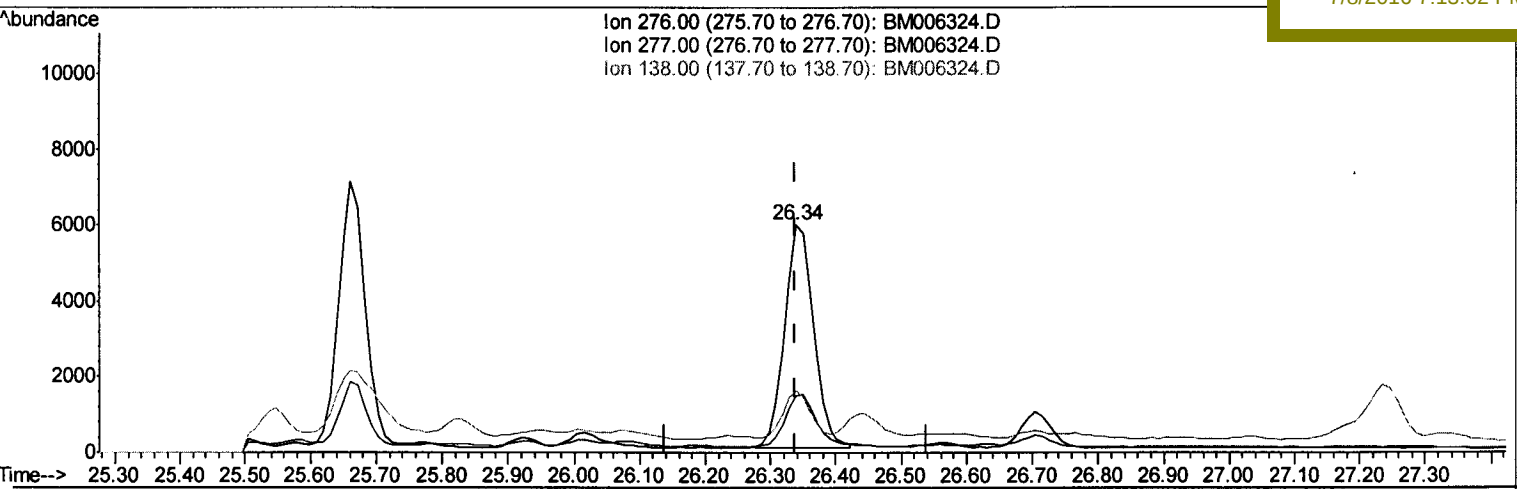
Data Path : Z:\HPCHEM1\BNA M\Data\BM070816\
Data File : BM006324.D
Acq On : 07 Jul 2016 18:04
Operator : UM/SJ
Sample : H3811-07MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 08 04:22:30 2016
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM070716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 08 03:28:13 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
A4TV6MS

Manual Integration

umangi
7/8/2016 7:13:02 PM



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

26.339min (+0.000) 0.45ng/ul m

response 17990

Ion	Exp%	Act%
276.00	100	100
277.00	23.60	25.10
138.00	28.10	26.83
0.00	0.00	0.00

U.M
07/12/16

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA M\Data\BM070816\
 Data File : BM006324.D
 Acq On : 07 Jul 2016 18:04
 Operator : UM/SJ
 Sample : H3811-07MS
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4TV6MS

Manual Integration

umangi
 7/8/2016 7:13:02 PM

Quant Time: Jul 08 04:27:50 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM070716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 08 03:28:13 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.65	152	4520	0.40	ng/ul	0.00
4) Naphthalene-d8	10.43	136	18121	0.40	ng/ul	0.00
8) Acenaphthene-d10	14.30	164	10798	0.40	ng/ul	0.00
12) Phenanthrene-d10	17.04	188	24187m	0.40	ng/ul	0.00
18) Chrysene-d12	21.24	240	19142	0.40	ng/ul	0.00
22) Perylene-d12	23.45	264	12811m	0.40	ng/ul	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) 1,4-Dioxane-d8	3.17	96	6984	3.66	ng/uL	0.00
6) 2-Methylnaphthalene-d10	12.02	152	6679	0.32	ng/ul	0.00
16) Fluoranthene-d10	19.07	212	16199	0.32	ng/ul	-0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Naphthalene	10.46	128	1373	0.03	ng/ul#	78
7) 2-Methylnaphthalene	12.09	142	739	0.03	ng/ul	98
9) Acenaphthylene	14.01	152	3595	0.10	ng/ul#	93
10) Acenaphthene	14.35	153	9694	0.27	ng/ul	92
11) Fluorene	15.34	166	1552	0.04	ng/ul#	82
13) Pentachlorophenol	16.70	266	1962	0.53	ng/ul	96
14) Phenanthrene	17.07	178	42921m	0.64	ng/ul	88
15) Anthracene	17.16	178	7950	0.13	ng/ul#	93
17) Fluoranthene	19.11	202	94921	1.29	ng/ul	95
19) Pyrene	19.47	202	102252	1.28	ng/ul	93
20) Benzo(a)anthracene	21.22	228	33168	0.54	ng/ul#	96
21) Chrysene	21.27	228	39310	0.65	ng/ul	96
23) Benzo(b)fluoranthene	22.78	252	42190m	0.92	ng/ul	96
24) Benzo(k)fluoranthene	22.83	252	10881m	0.25	ng/ul	96
25) Benzo(a)pyrene	23.35	252	27237m	0.64	ng/ul	96
26) Indeno(1,2,3-cd)pyrene	25.66	276	19467m	0.41	ng/ul	96
28) Benzo(a,h,i)perylene	26.34	276	17990m	0.45	ng/ul	96

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