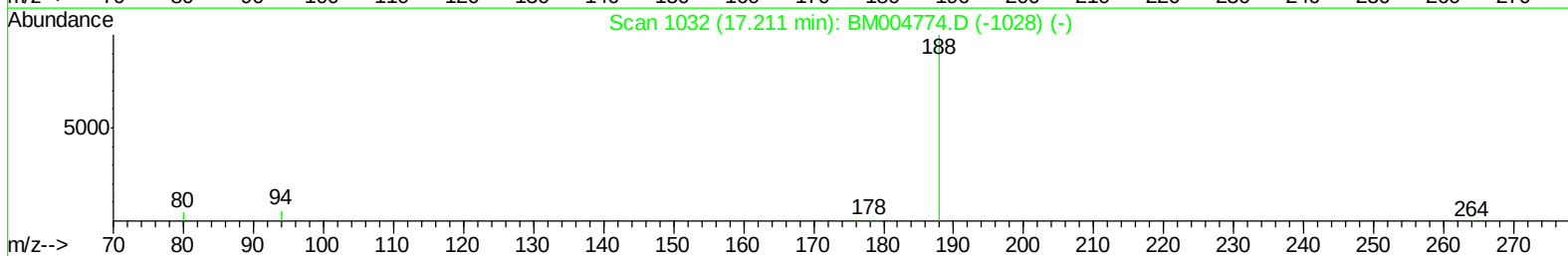
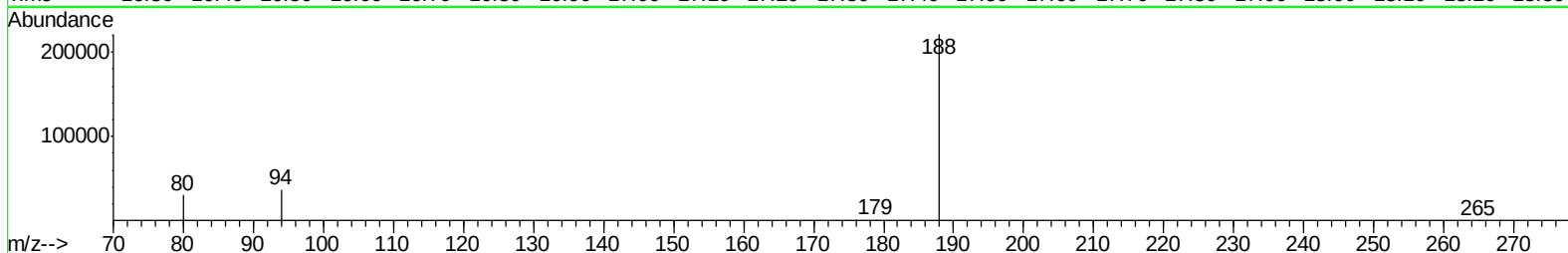
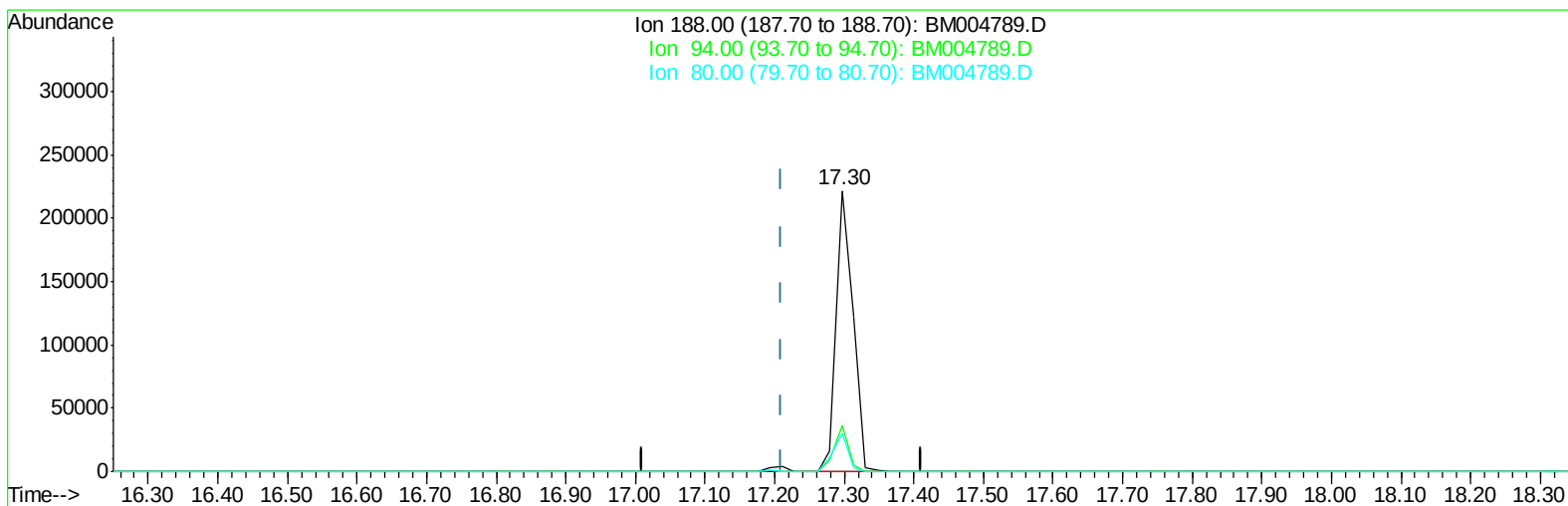


Data Path : Z:\HPCHEM1\BNA_M\Data\BM032516\
Data File : BM004789.D
Acq On : 25 Mar 2016 22:08
Operator : UM/SJ
Sample : H1909-15
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 05 19:31:16 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM032516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 05 18:29:16 2016
Response via : Initial Calibration



TIC: BM004789.D

(12) Phenanthrene-d10 (I)

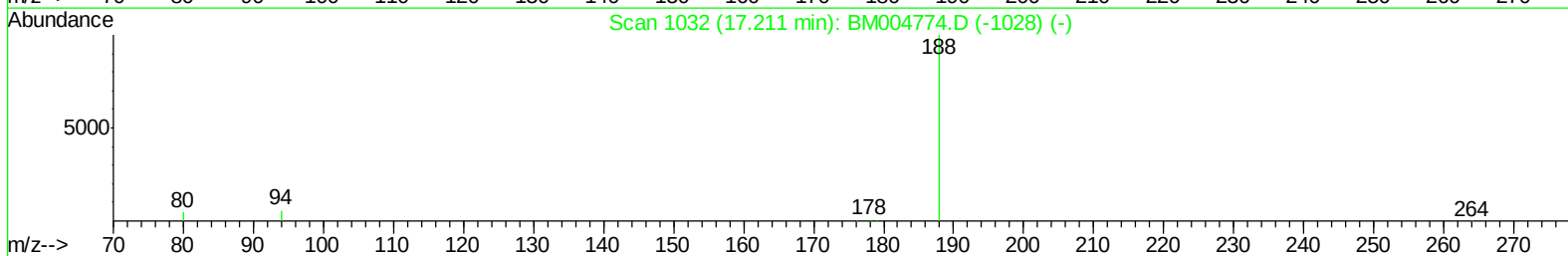
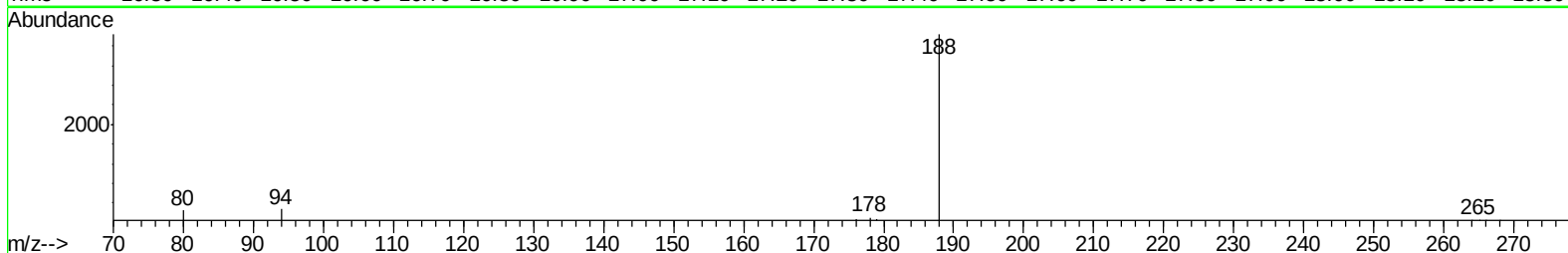
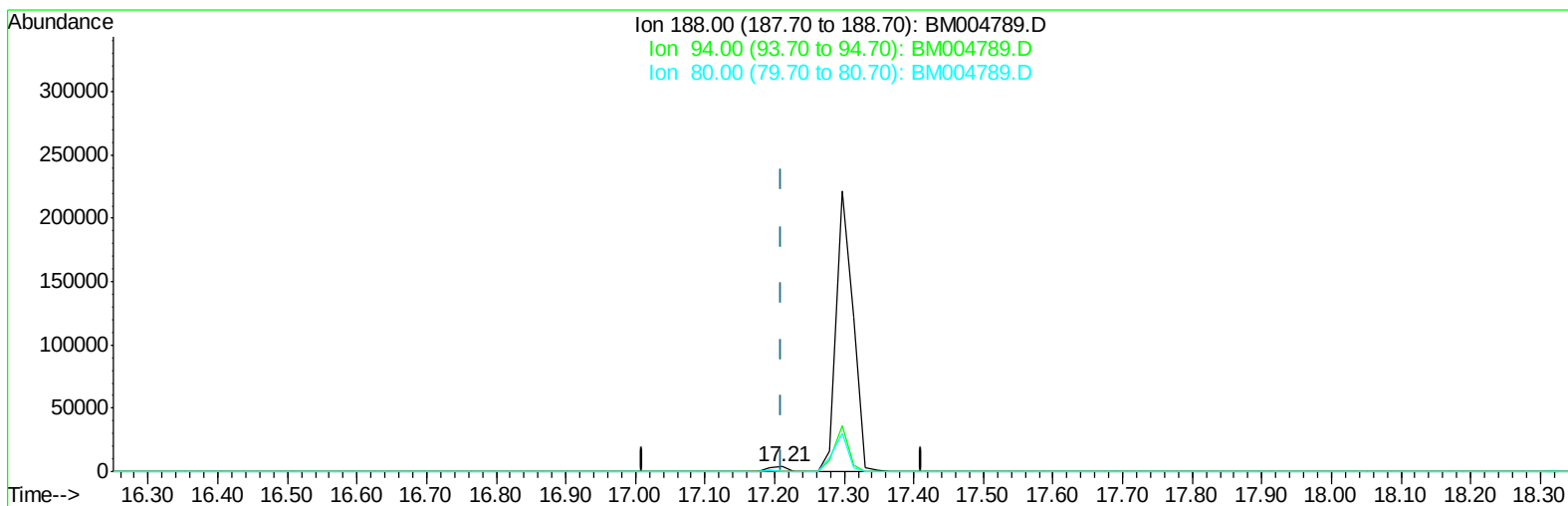
17.296min (+0.085) 0.40ng/ul

response 373541

Ion	Exp%	Act%
188.00	100	100
94.00	11.70	16.28#
80.00	11.90	13.56
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM032516\
Data File : BM004789.D
Acq On : 25 Mar 2016 22:08
Operator : UM/SJ
Sample : H1909-15
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 05 19:31:16 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM032516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 05 18:29:16 2016
Response via : Initial Calibration



TIC: BM004789.D

(12) Phenanthrene-d10 (I)

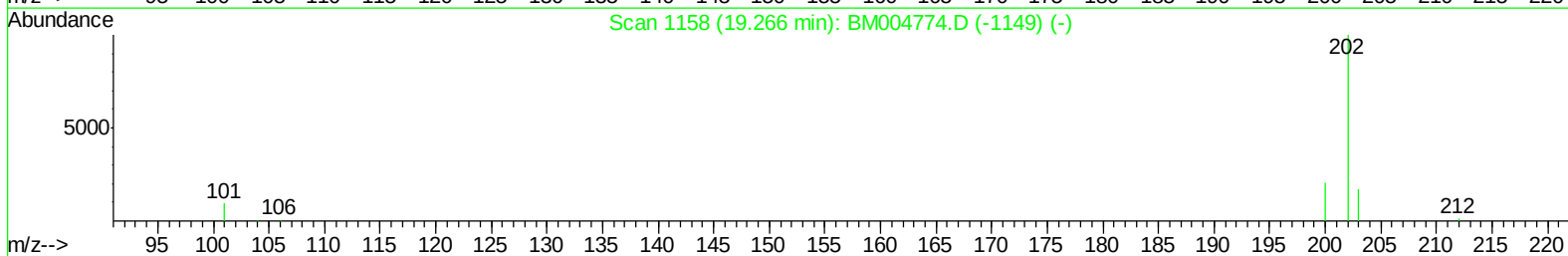
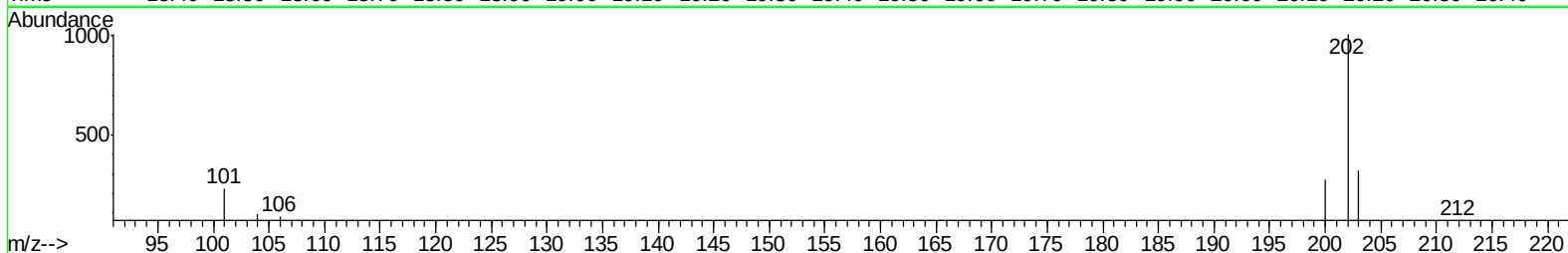
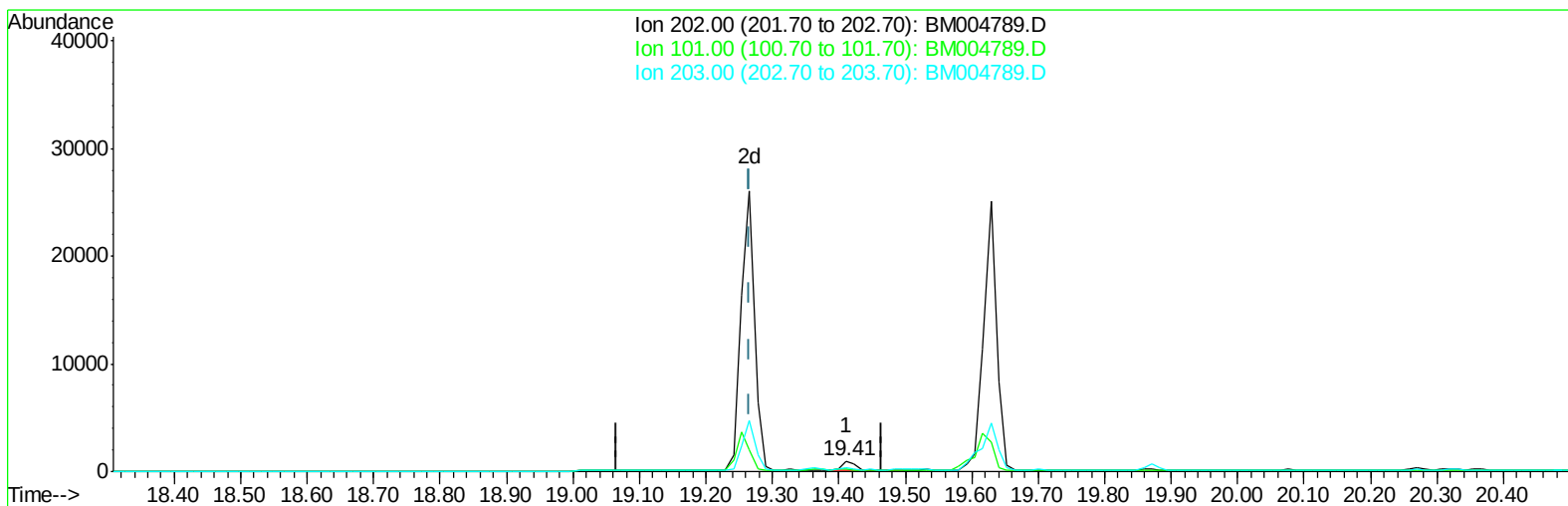
17.210min (-0.000) 0.40ng/ul m

response 7953

Ion	Exp%	Act%
188.00	100	100
94.00	11.70	7.19#
80.00	11.90	6.44#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM032516\
Data File : BM004789.D
Acq On : 25 Mar 2016 22:08
Operator : UM/SJ
Sample : H1909-15
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 05 19:31:46 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM032516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 05 18:29:16 2016
Response via : Initial Calibration



TIC: BM004789.D

(17) Fluoranthene (C)

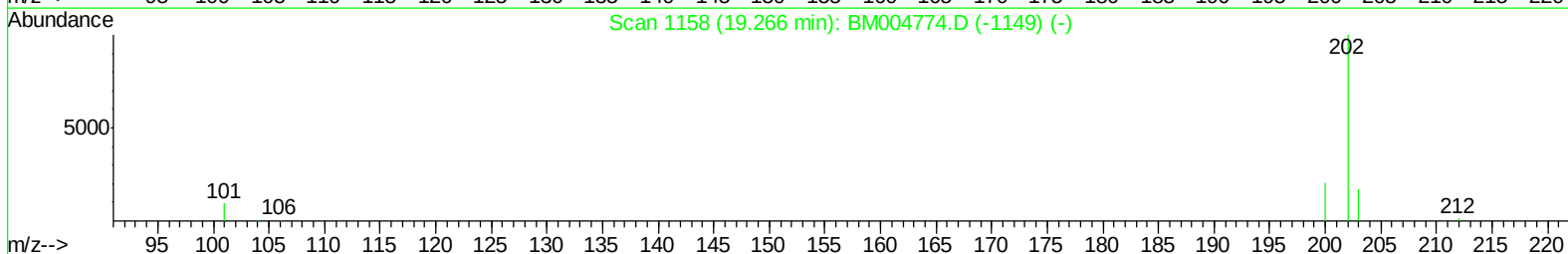
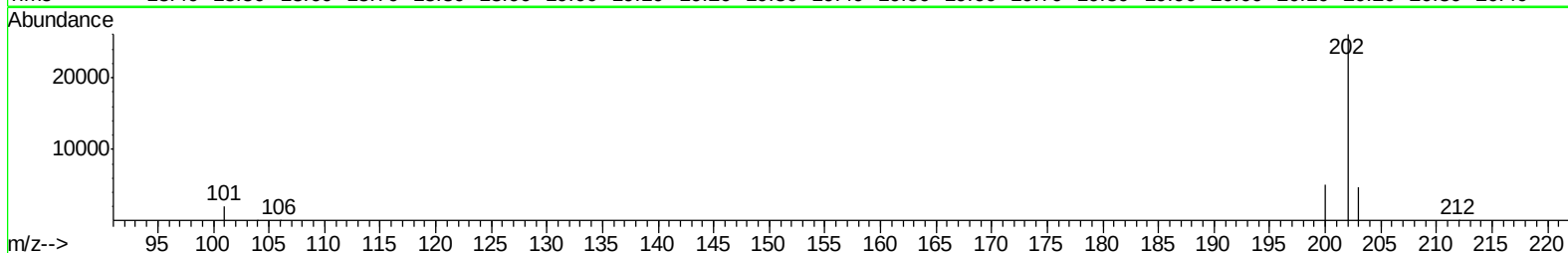
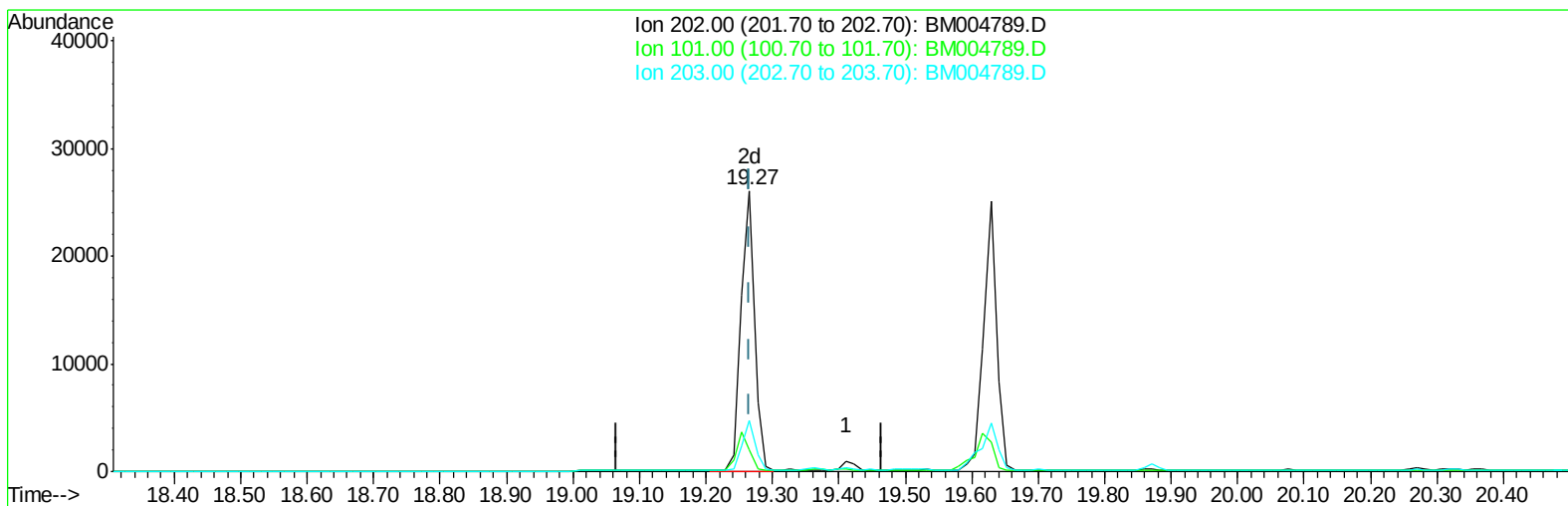
19.411min (+0.145) 0.05ng/ul

response 1353

Ion	Exp%	Act%
202.00	100	100
101.00	9.60	22.20
203.00	16.30	31.12
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM032516\
Data File : BM004789.D
Acq On : 25 Mar 2016 22:08
Operator : UM/SJ
Sample : H1909-15
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 05 19:31:46 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM032516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 05 18:29:16 2016
Response via : Initial Calibration



TIC: BM004789.D

(17) Fluoranthene (C)

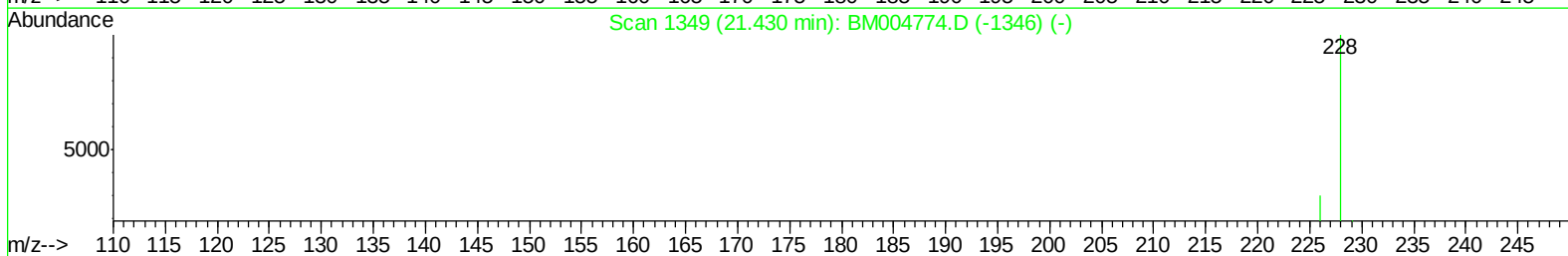
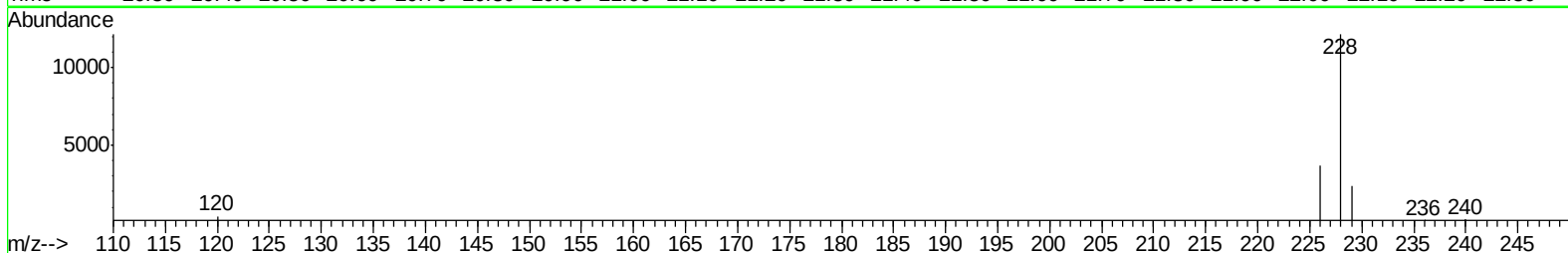
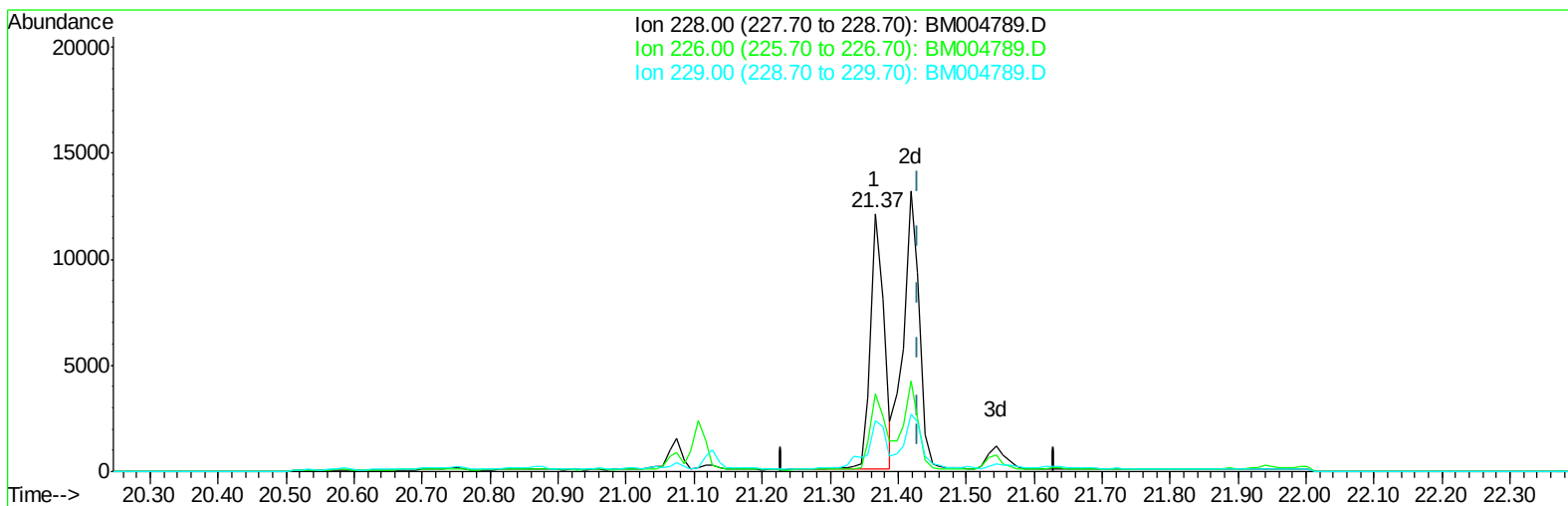
19.266min (-0.000) 1.46ng/ul m

response 37179

Ion	Exp%	Act%
202.00	100	100
101.00	9.60	7.82
203.00	16.30	18.42
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM032516\
Data File : BM004789.D
Acq On : 25 Mar 2016 22:08
Operator : UM/SJ
Sample : H1909-15
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 05 19:31:46 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM032516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 05 18:29:16 2016
Response via : Initial Calibration



TIC: BM004789.D

(21) Chrysene

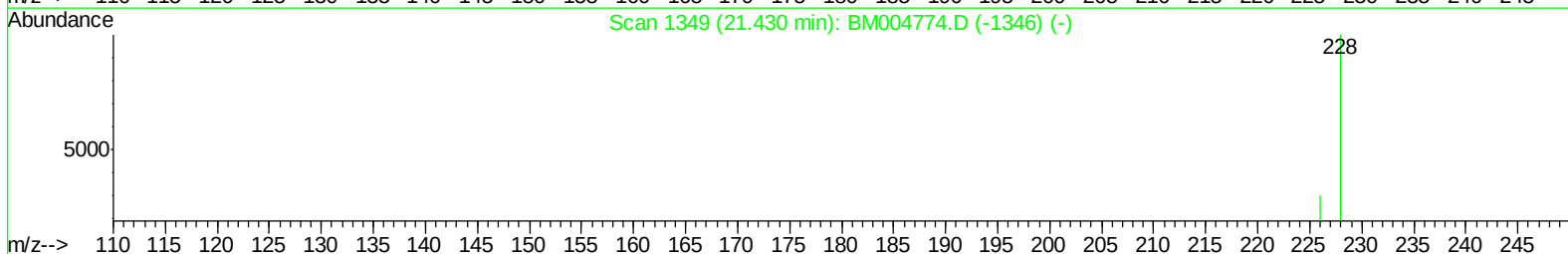
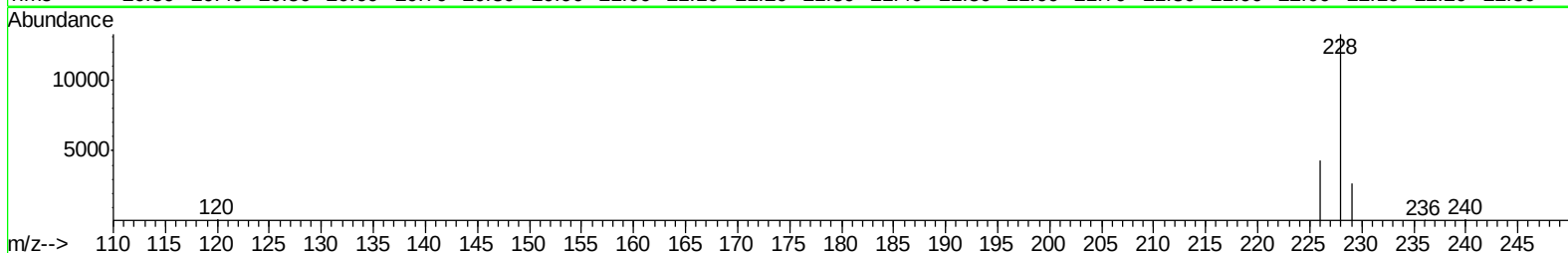
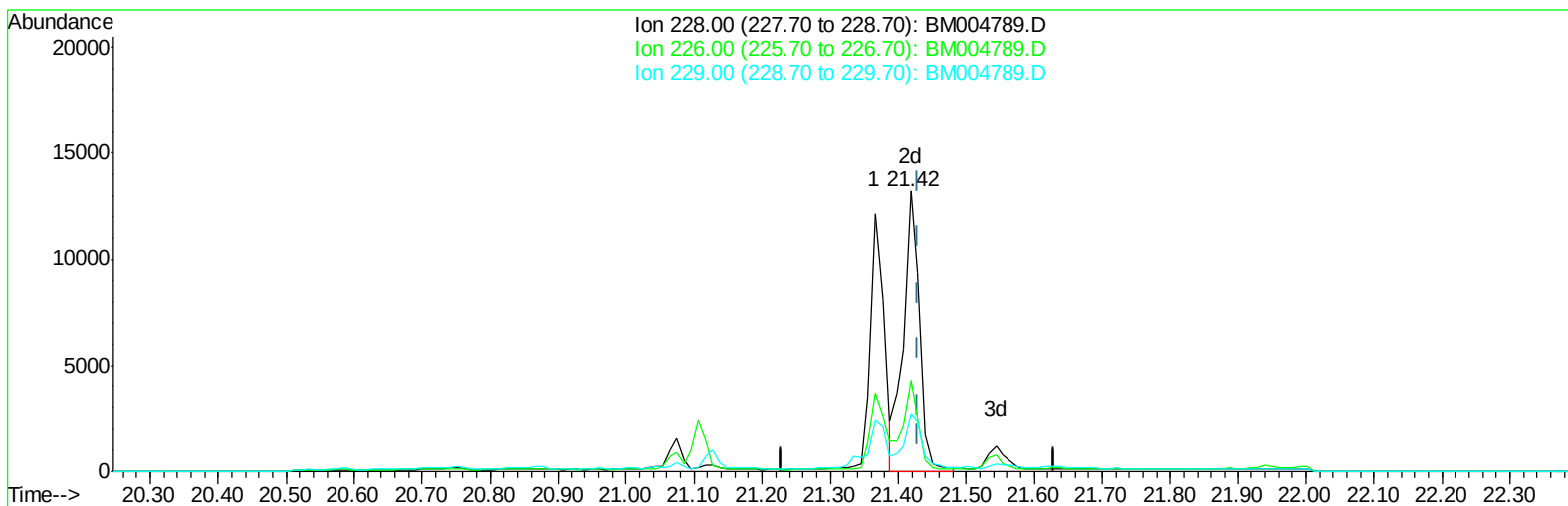
21.367min (-0.063) 0.71ng/ul

response 16474

Ion	Exp%	Act%
228.00	100	100
226.00	26.50	30.30
229.00	21.30	19.69
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM032516\
Data File : BM004789.D
Acq On : 25 Mar 2016 22:08
Operator : UM/SJ
Sample : H1909-15
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 05 19:31:46 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM032516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 05 18:29:16 2016
Response via : Initial Calibration



TIC: BM004789.D

(21) Chrysene

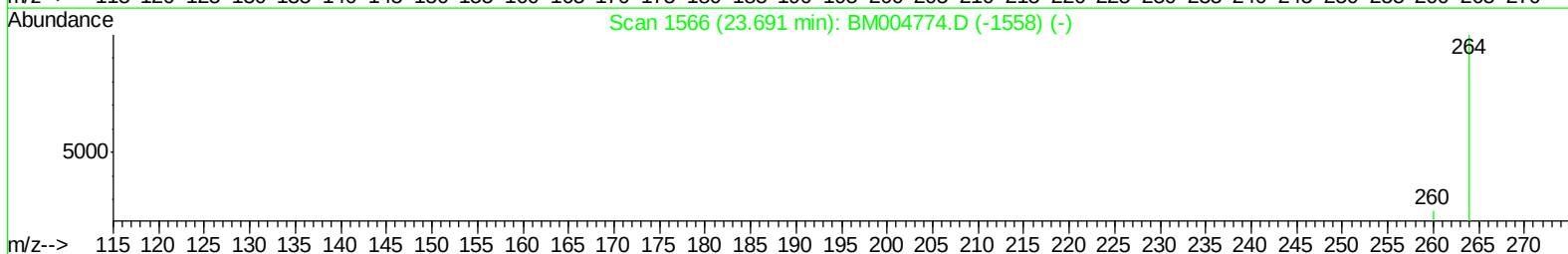
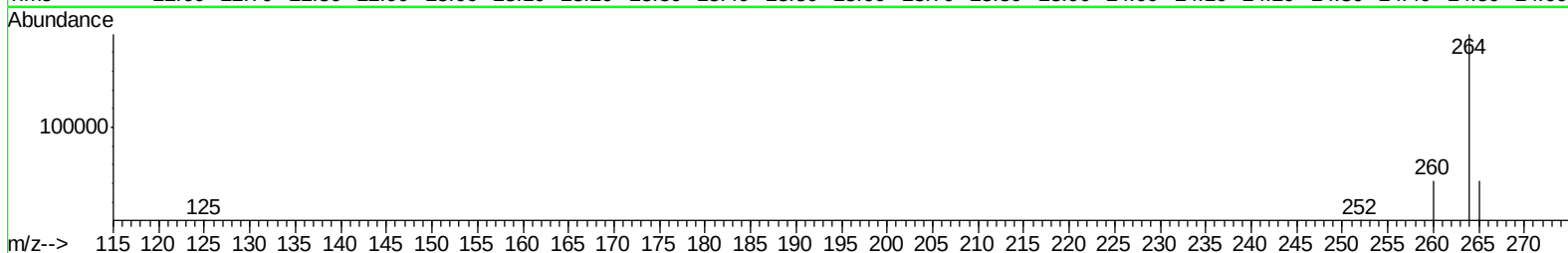
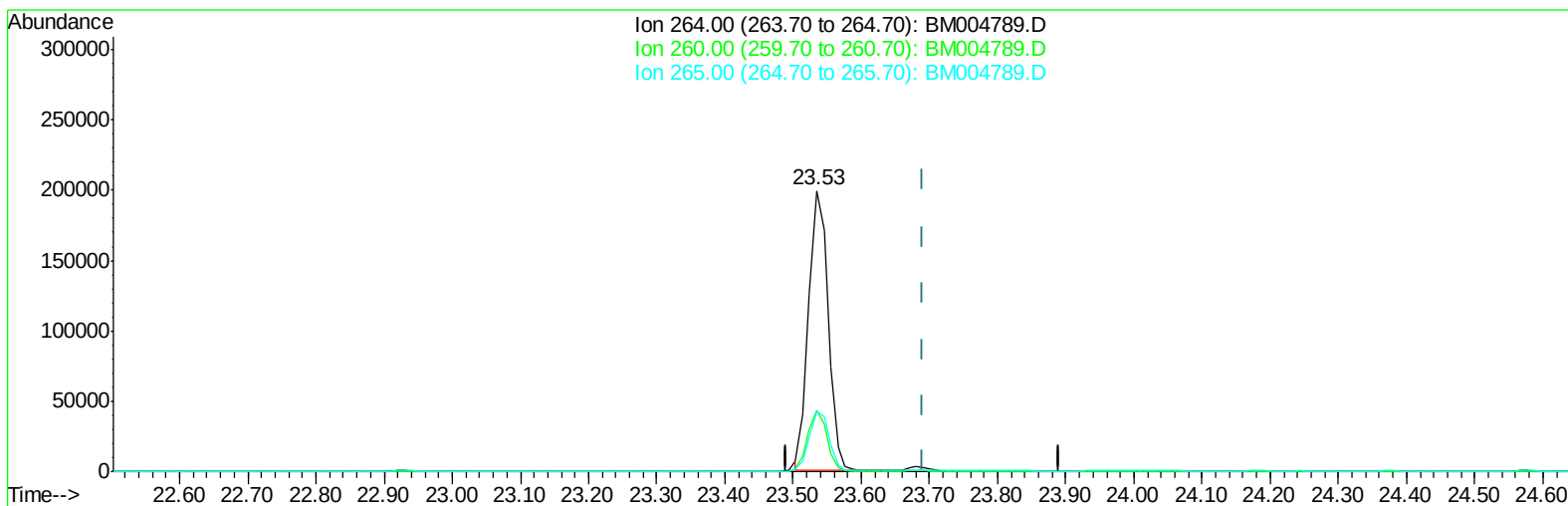
21.419min (-0.011) 0.94ng/ul m

response 21707

Ion	Exp%	Act%
228.00	100	100
226.00	26.50	32.40#
229.00	21.30	20.43
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM032516\
Data File : BM004789.D
Acq On : 25 Mar 2016 22:08
Operator : UM/SJ
Sample : H1909-15
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 05 19:31:46 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM032516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 05 18:29:16 2016
Response via : Initial Calibration



TIC: BM004789.D

(22) Perylene-d12 (I)

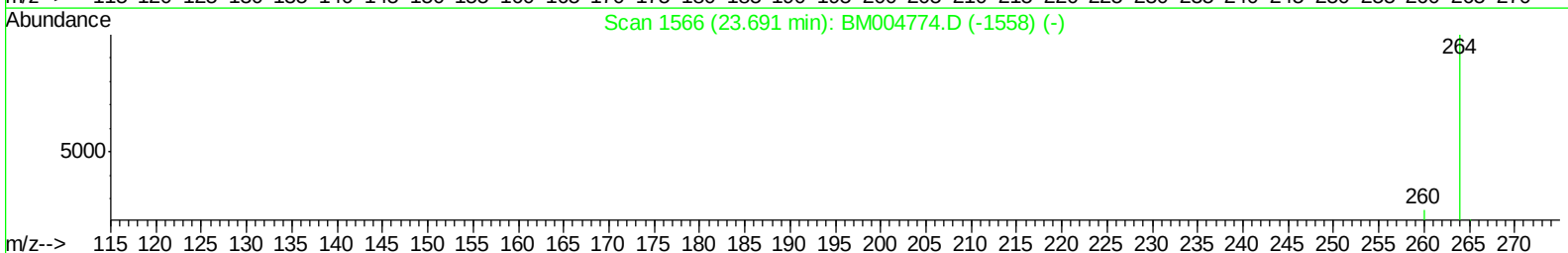
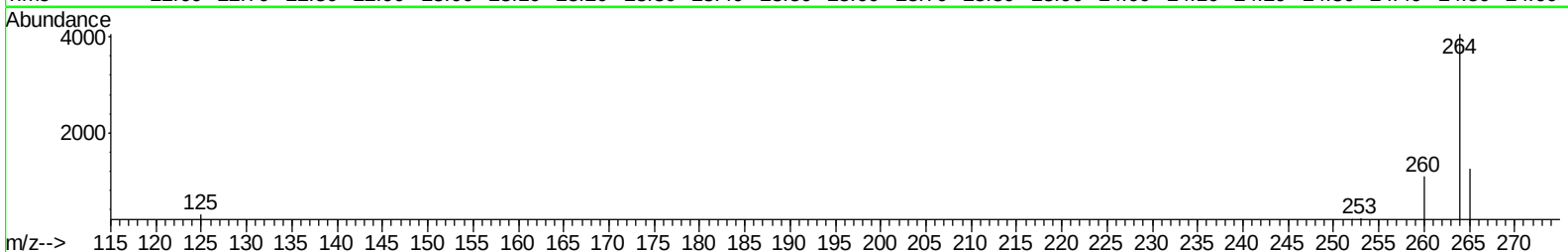
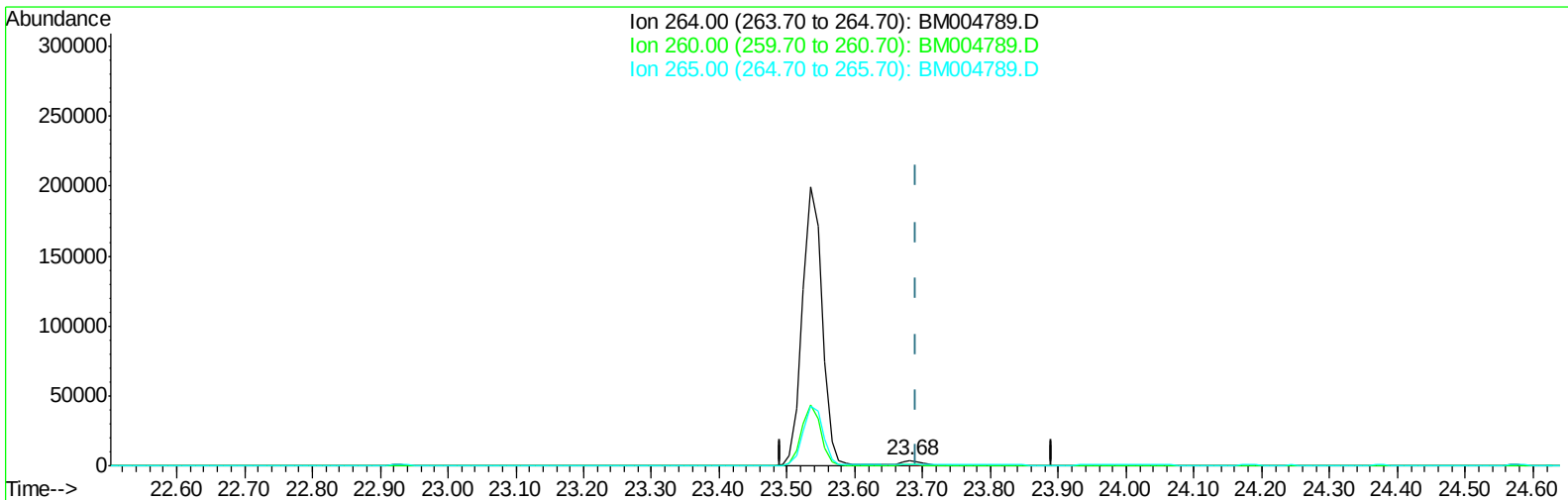
23.535min (-0.157) 0.40ng/ul

response 395064

Ion	Exp%	Act%
264.00	100	100
260.00	25.60	21.72
265.00	38.20	21.23#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM032516\
Data File : BM004789.D
Acq On : 25 Mar 2016 22:08
Operator : UM/SJ
Sample : H1909-15
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 05 19:31:46 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM032516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 05 18:29:16 2016
Response via : Initial Calibration



TIC: BM004789.D

(22) Perylene-d12 (I)

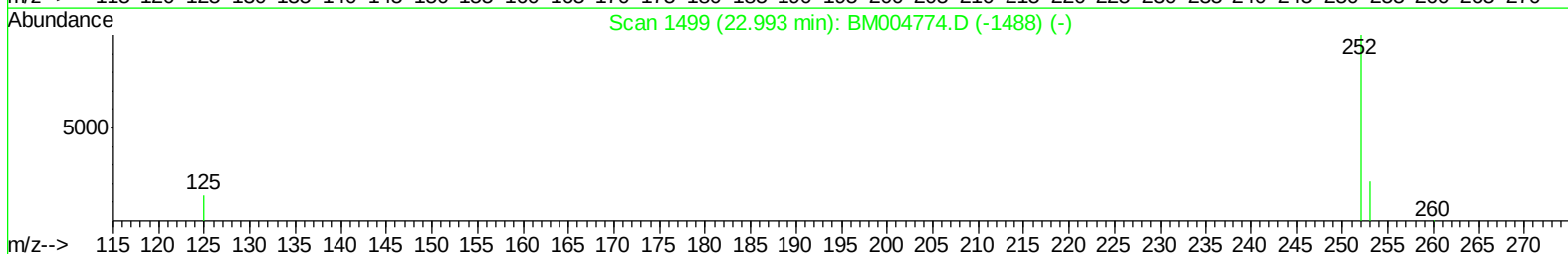
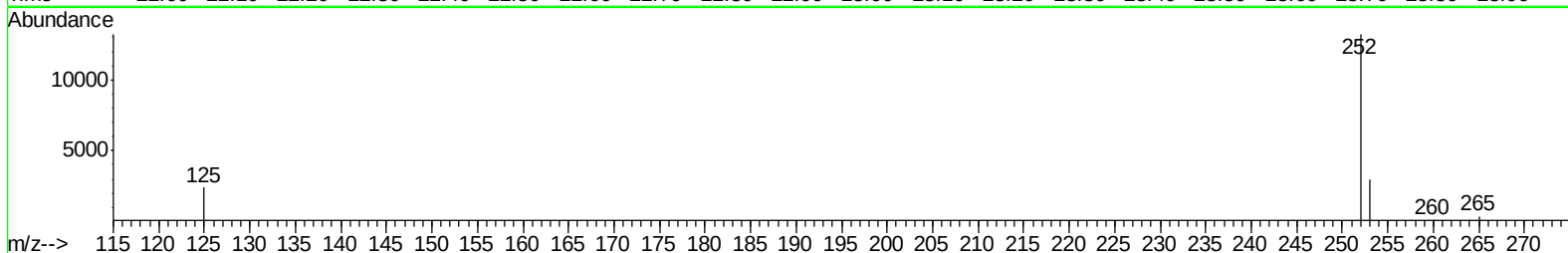
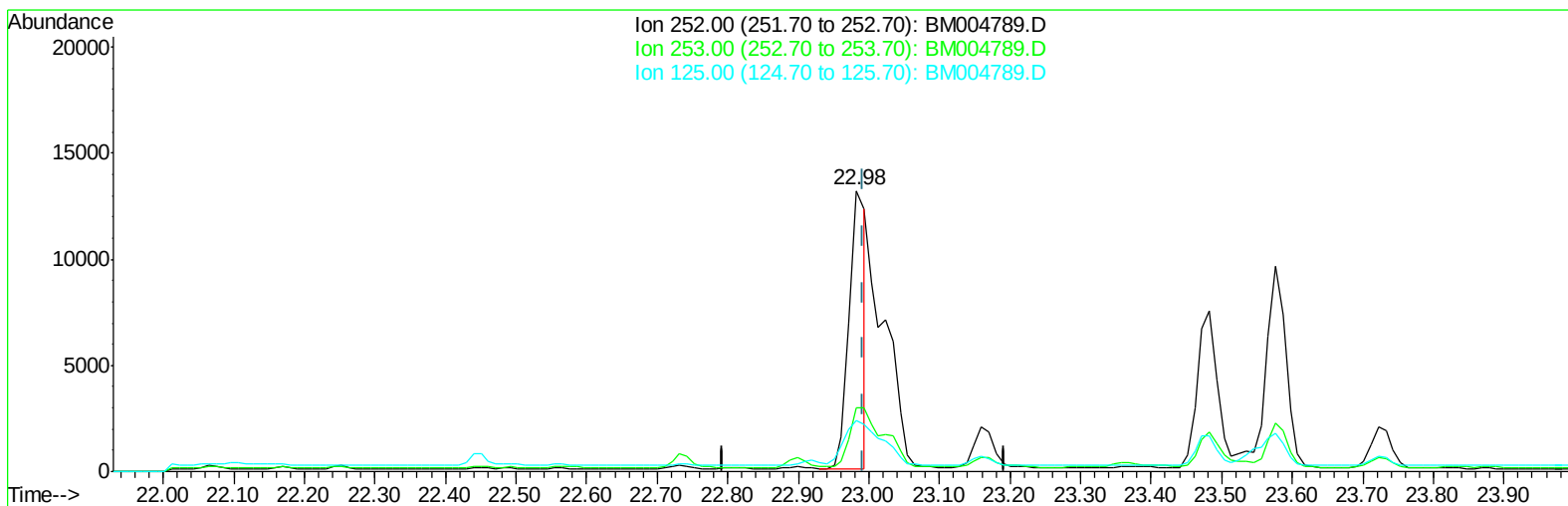
23.681min (-0.011) 0.40ng/ul m

response 7016

Ion	Exp%	Act%
264.00	100	100
260.00	25.60	26.58
265.00	38.20	31.01
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM032516\
Data File : BM004789.D
Acq On : 25 Mar 2016 22:08
Operator : UM/SJ
Sample : H1909-15
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 05 19:33:04 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM032516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 05 18:29:16 2016
Response via : Initial Calibration



TIC: BM004789.D

(23) Benzo(b)fluoranthene

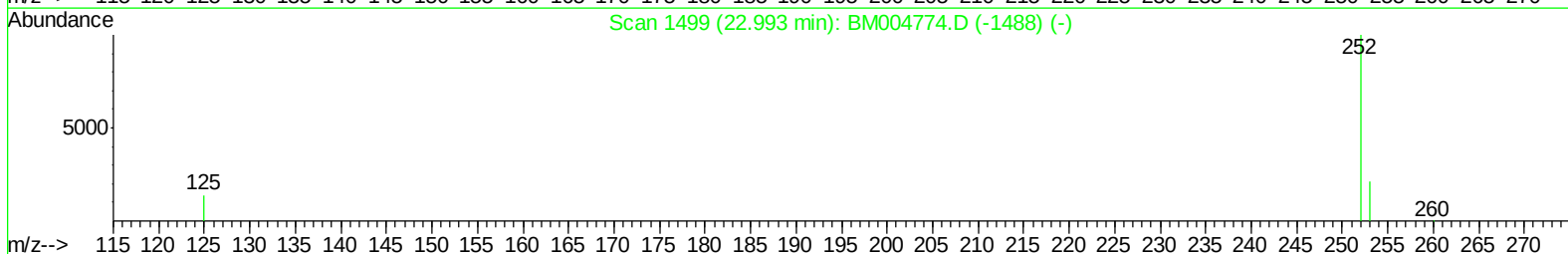
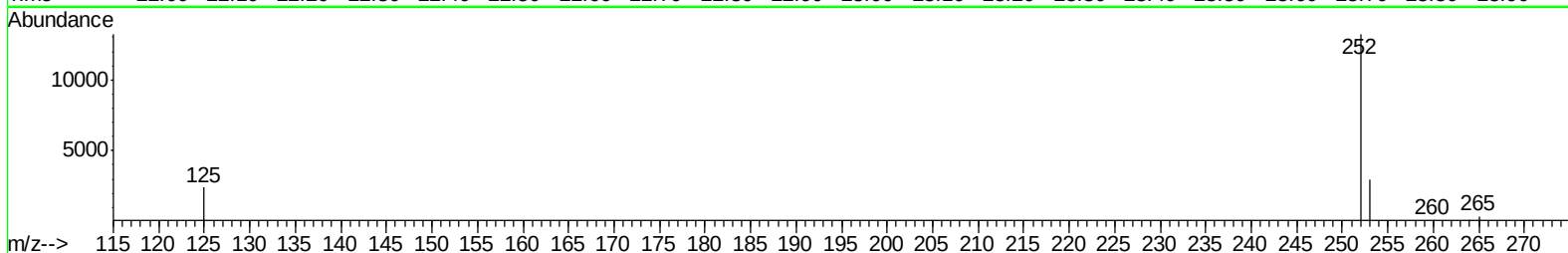
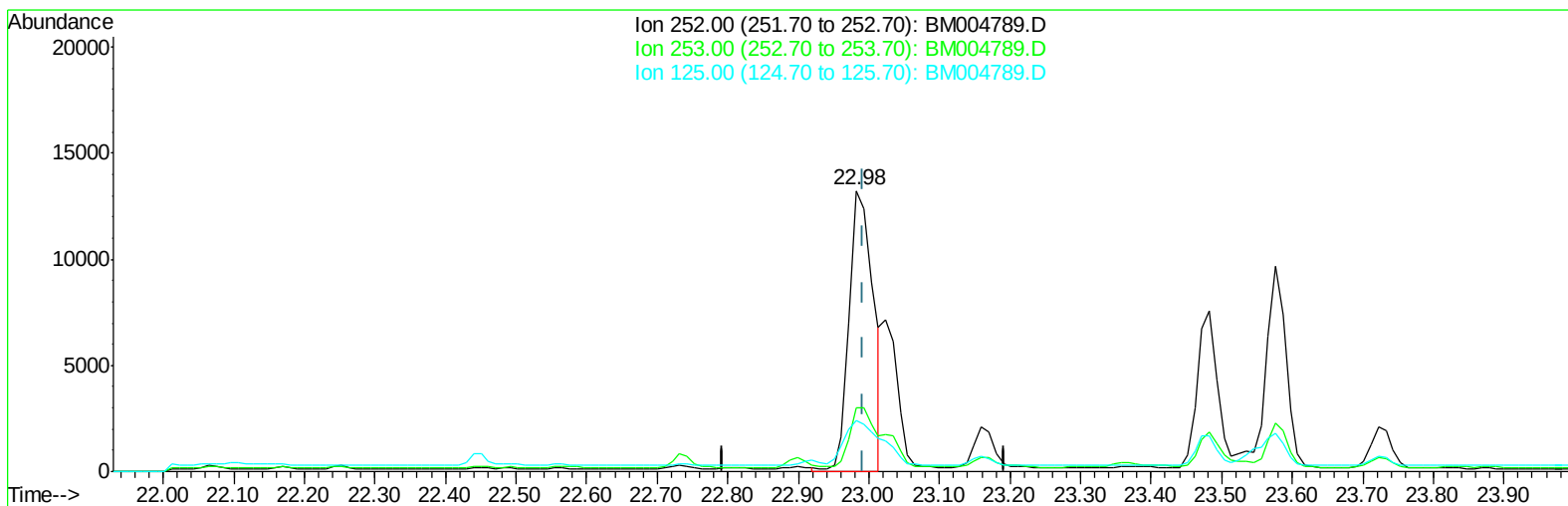
22.982min (-0.011) 0.89ng/ul

response 21082

Ion	Exp%	Act%
252.00	100	100
253.00	22.70	22.72
125.00	14.40	18.16
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM032516\
Data File : BM004789.D
Acq On : 25 Mar 2016 22:08
Operator : UM/SJ
Sample : H1909-15
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 05 19:33:04 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM032516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 05 18:29:16 2016
Response via : Initial Calibration



TIC: BM004789.D

(23) Benzo(b)fluoranthene

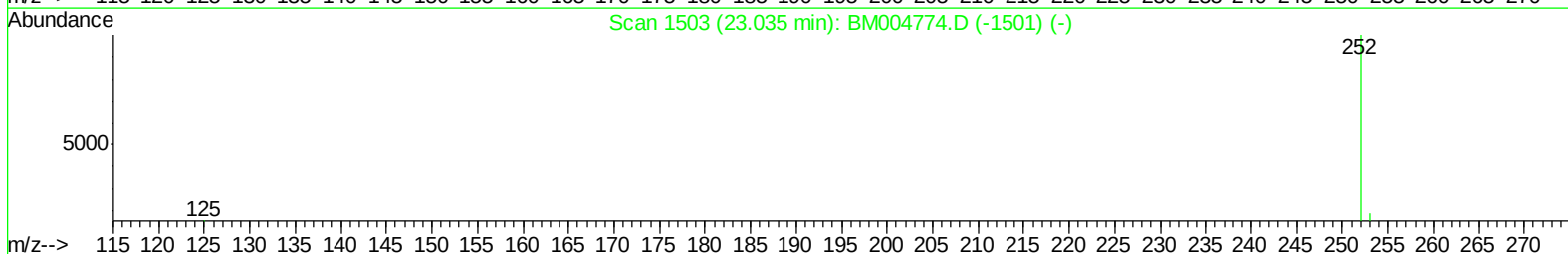
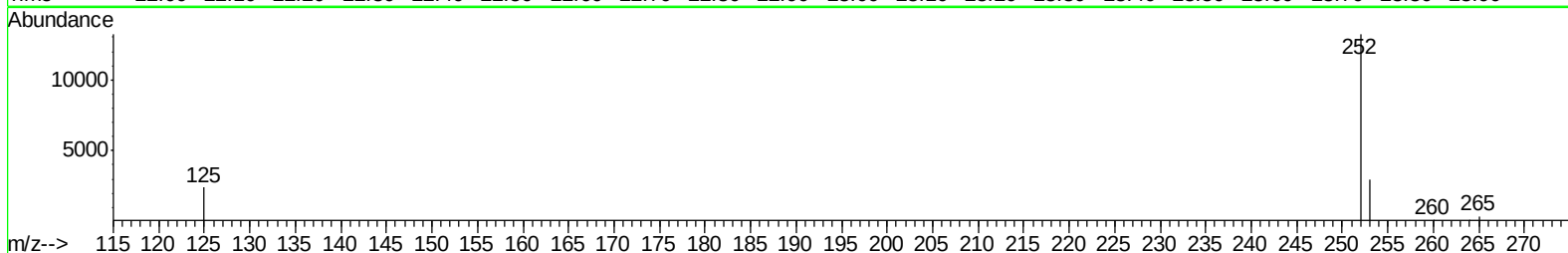
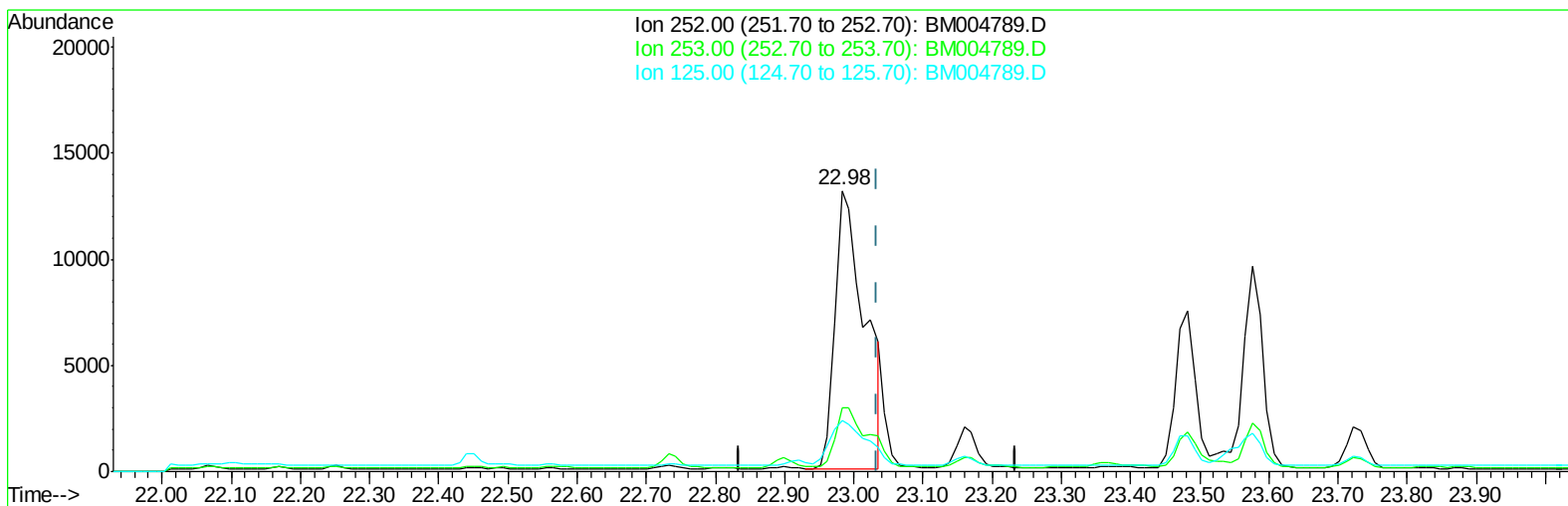
22.982min (-0.011) 1.34ng/ul m

response 31556

Ion	Exp%	Act%
252.00	100	100
253.00	22.70	22.72
125.00	14.40	18.16
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM032516\
Data File : BM004789.D
Acq On : 25 Mar 2016 22:08
Operator : UM/SJ
Sample : H1909-15
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 05 19:33:04 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM032516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 05 18:29:16 2016
Response via : Initial Calibration



TIC: BM004789.D

(24) Benzo(k)fluoranthene

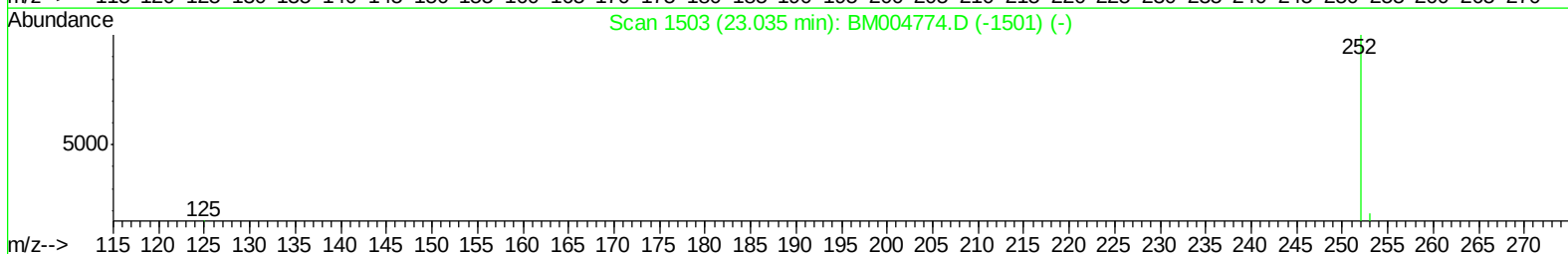
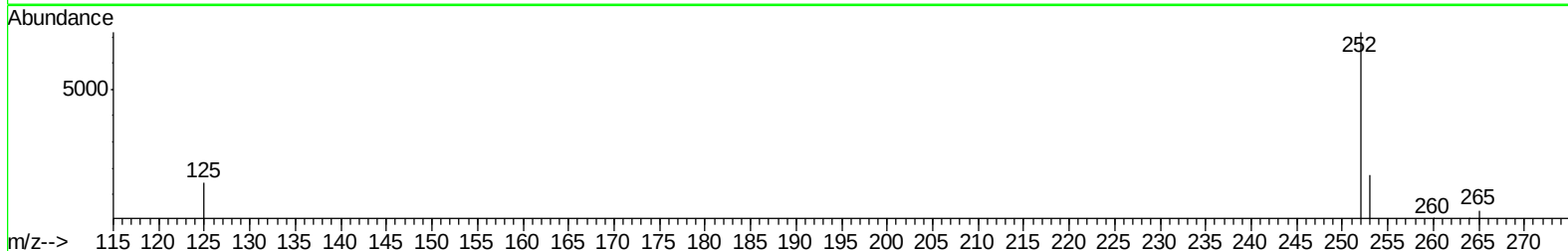
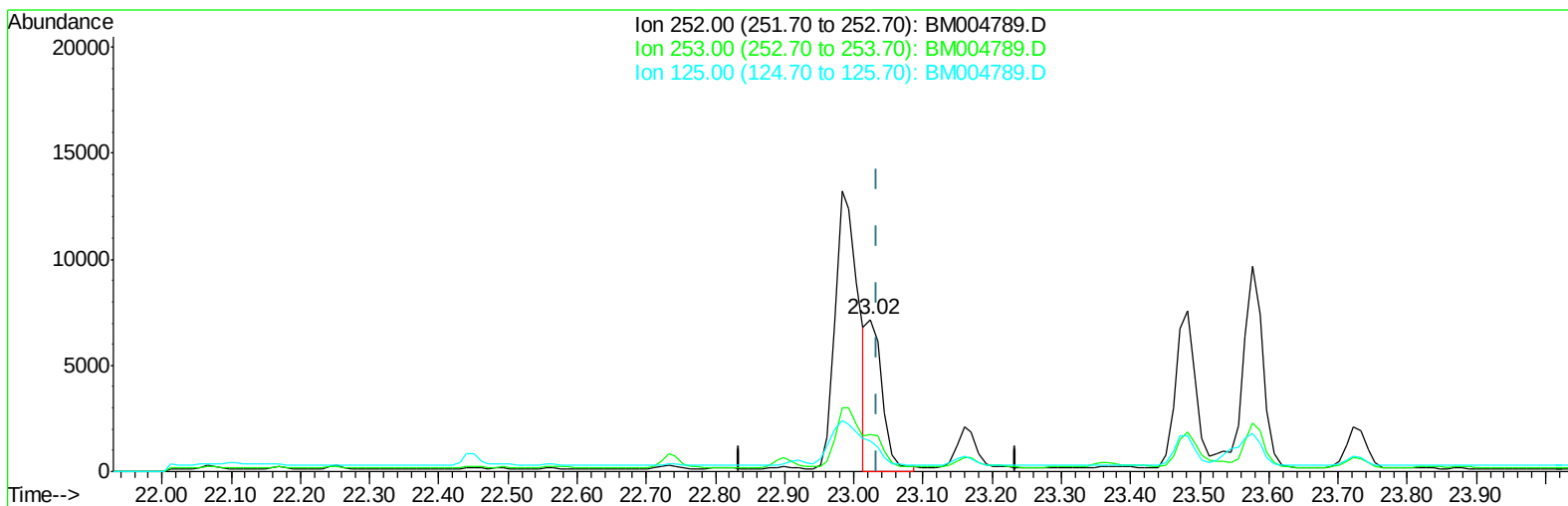
22.982min (-0.053) 1.77ng/ul

response 38822

Ion	Exp%	Act%
252.00	100	100
253.00	24.80	22.72
125.00	13.00	18.16#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM032516\
Data File : BM004789.D
Acq On : 25 Mar 2016 22:08
Operator : UM/SJ
Sample : H1909-15
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 05 19:33:04 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM032516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 05 18:29:16 2016
Response via : Initial Calibration



TIC: BM004789.D

(24) Benzo(k)fluoranthene

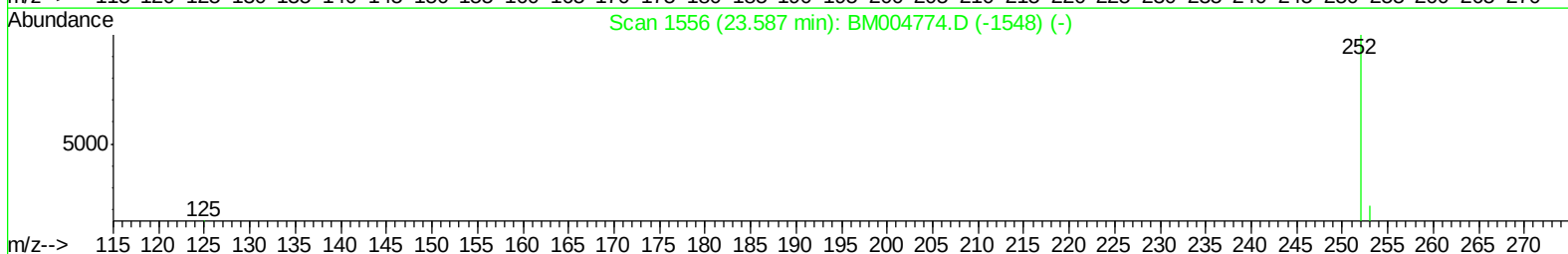
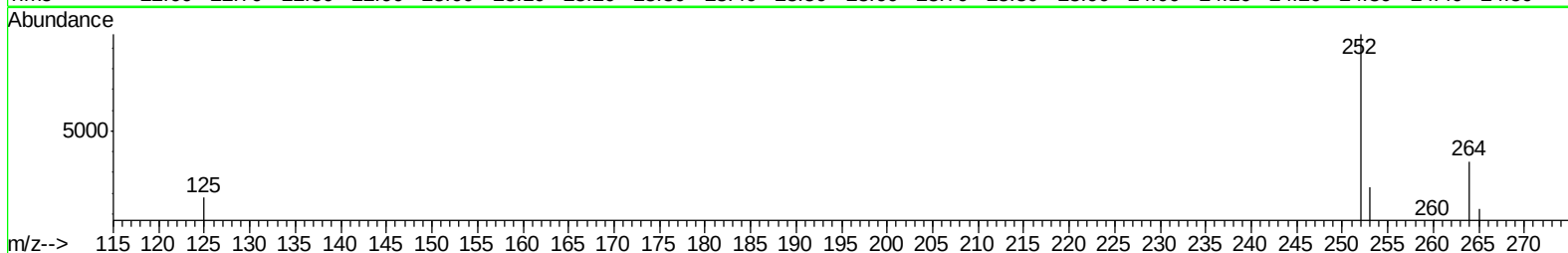
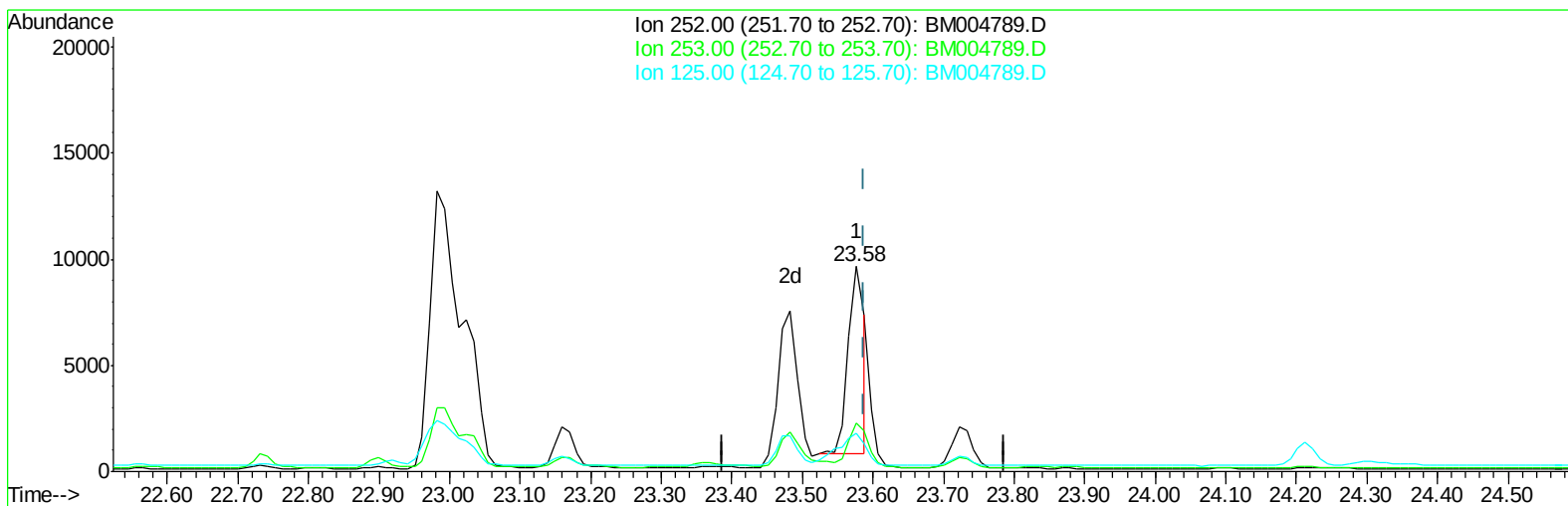
23.024min (-0.011) 0.50ng/ul m

response 11004

Ion	Exp%	Act%
252.00	100	100
253.00	24.80	24.54
125.00	13.00	20.04#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM032516\
Data File : BM004789.D
Acq On : 25 Mar 2016 22:08
Operator : UM/SJ
Sample : H1909-15
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 05 19:33:04 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM032516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 05 18:29:16 2016
Response via : Initial Calibration



TIC: BM004789.D

(25) Benzo(a)pyrene (C)

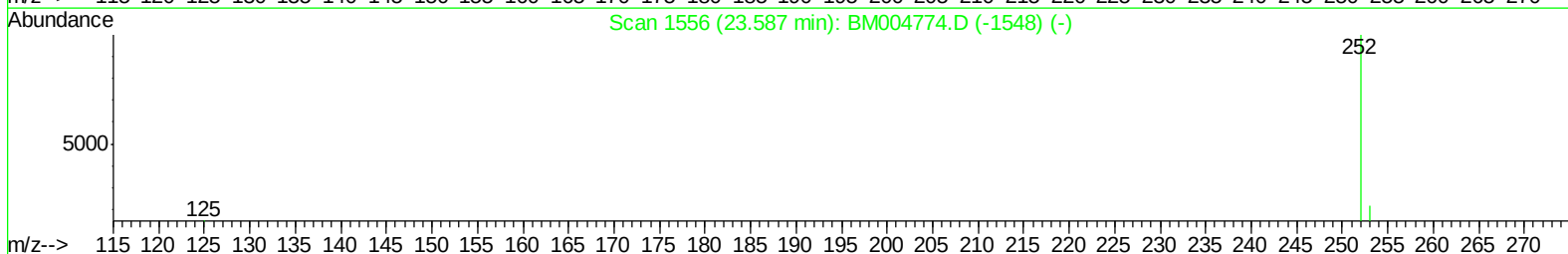
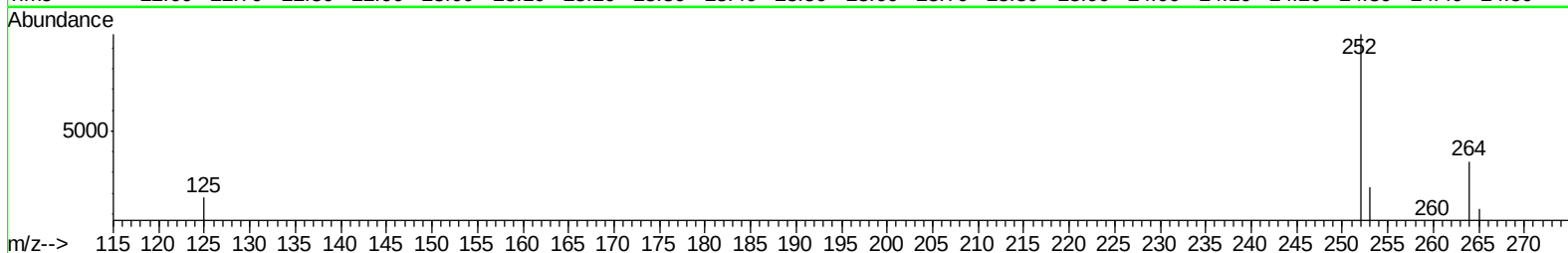
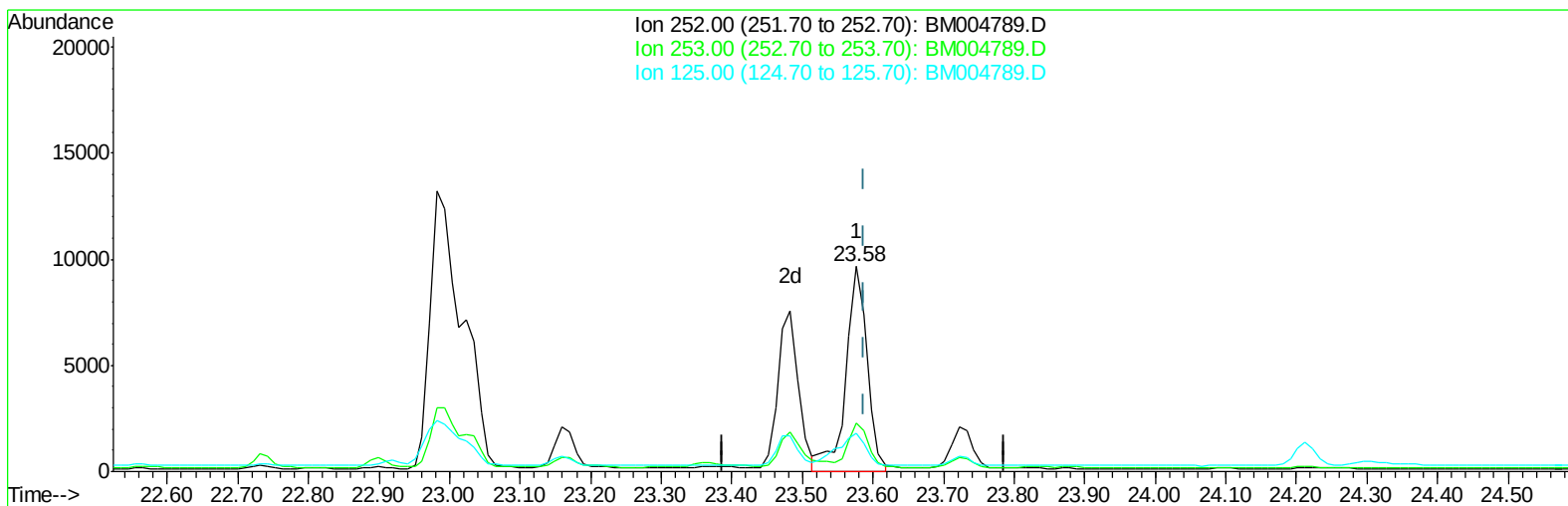
23.576min (-0.011) 0.64ng/ul

response 13906

Ion	Exp%	Act%
252.00	100	100
253.00	24.30	23.59
125.00	15.90	18.36
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM032516\
Data File : BM004789.D
Acq On : 25 Mar 2016 22:08
Operator : UM/SJ
Sample : H1909-15
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 05 19:33:04 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM032516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 05 18:29:16 2016
Response via : Initial Calibration



TIC: BM004789.D

(25) Benzo(a)pyrene (C)

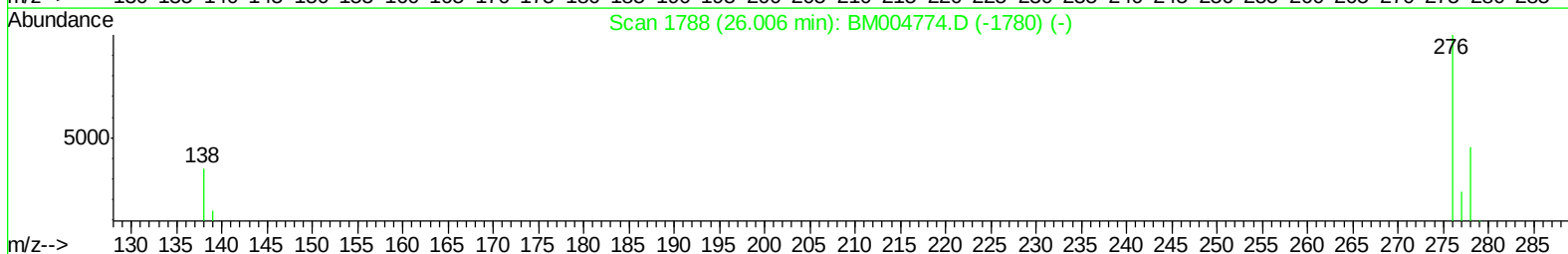
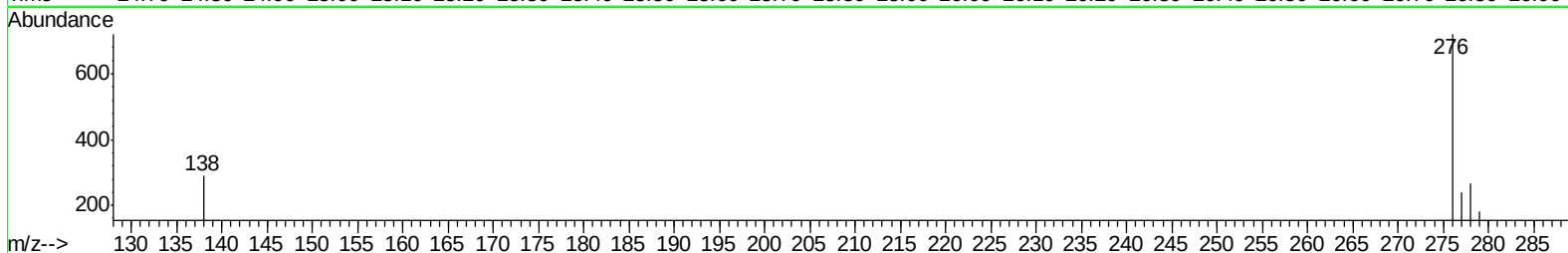
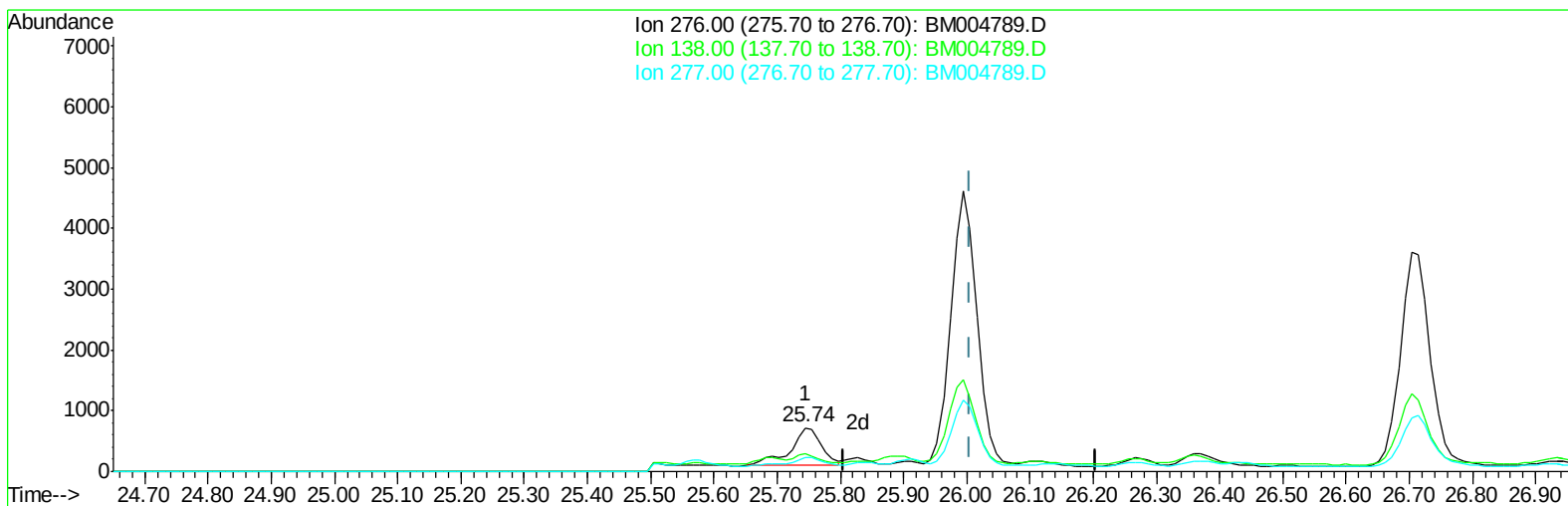
23.576min (-0.011) 0.94ng/ul m

response 20239

Ion	Exp%	Act%
252.00	100	100
253.00	24.30	23.59
125.00	15.90	18.36
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM032516\
Data File : BM004789.D
Acq On : 25 Mar 2016 22:08
Operator : UM/SJ
Sample : H1909-15
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 05 19:33:04 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM032516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 05 18:29:16 2016
Response via : Initial Calibration



TIC: BM004789.D

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

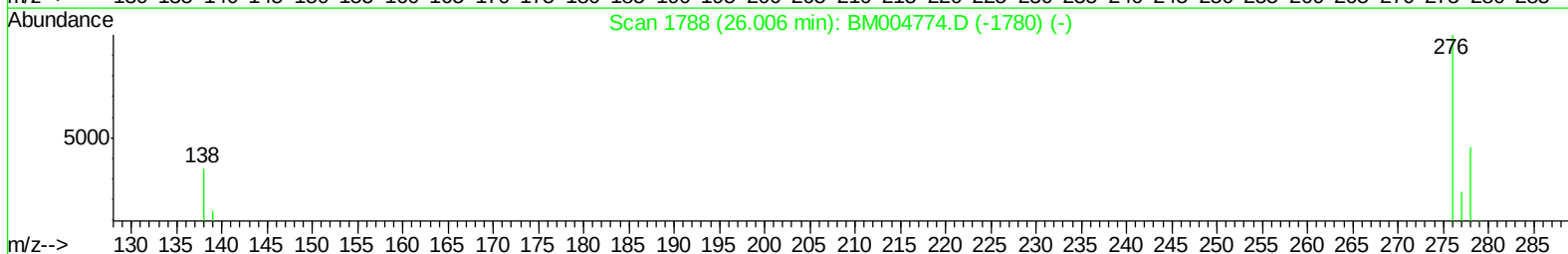
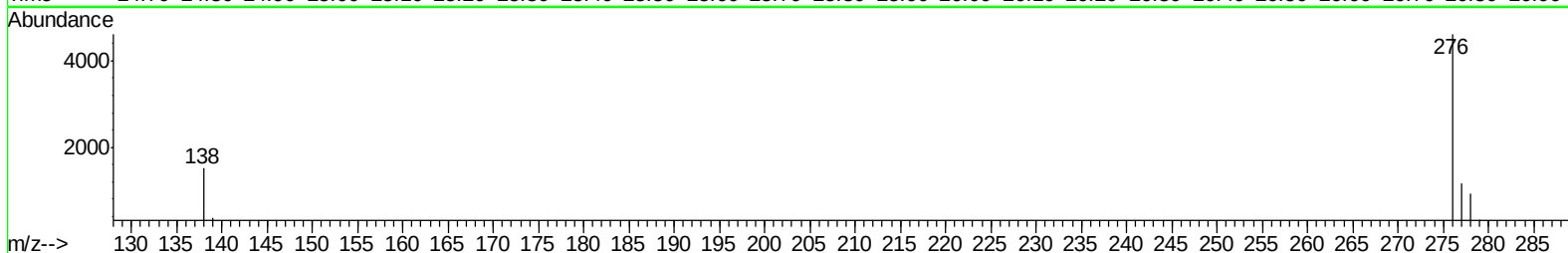
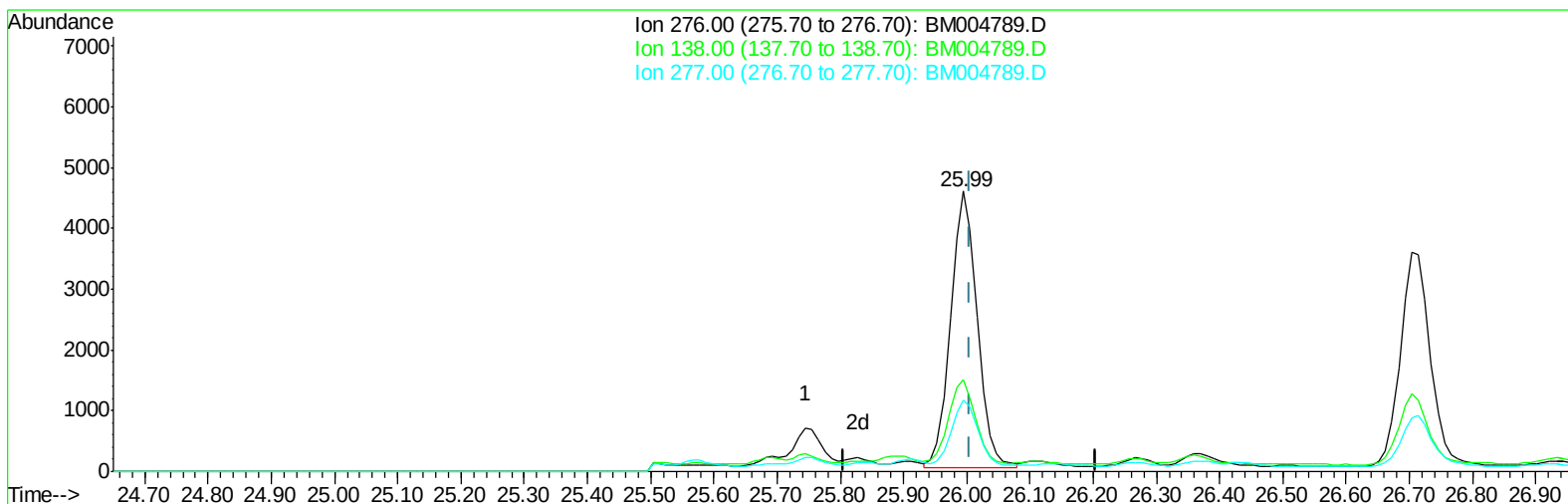
25.745min (-0.261) 0.11ng/ul

response 2154

Ion	Exp%	Act%
276.00	100	100
138.00	20.40	16.57
277.00	24.80	25.02
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM032516\
Data File : BM004789.D
Acq On : 25 Mar 2016 22:08
Operator : UM/SJ
Sample : H1909-15
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 05 19:33:04 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM032516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 05 18:29:16 2016
Response via : Initial Calibration



TIC: BM004789.D

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

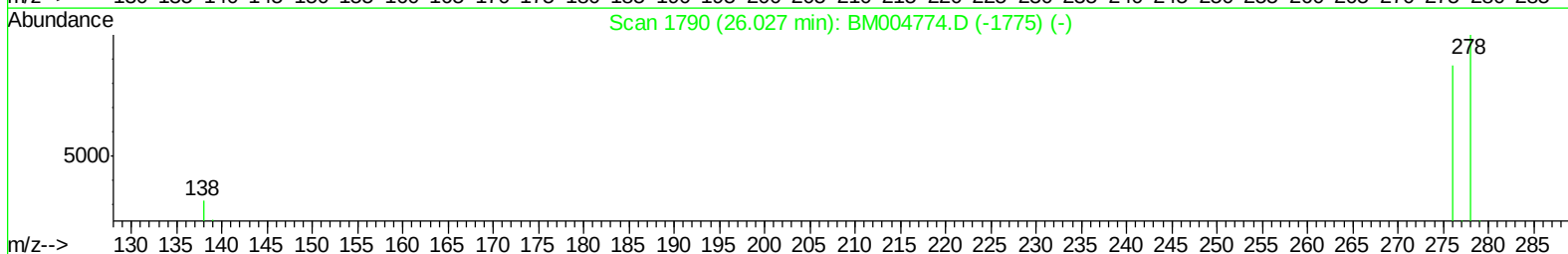
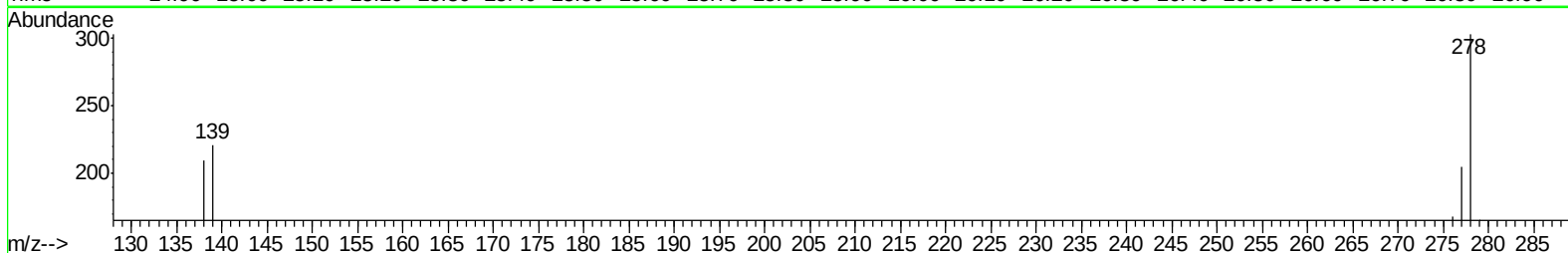
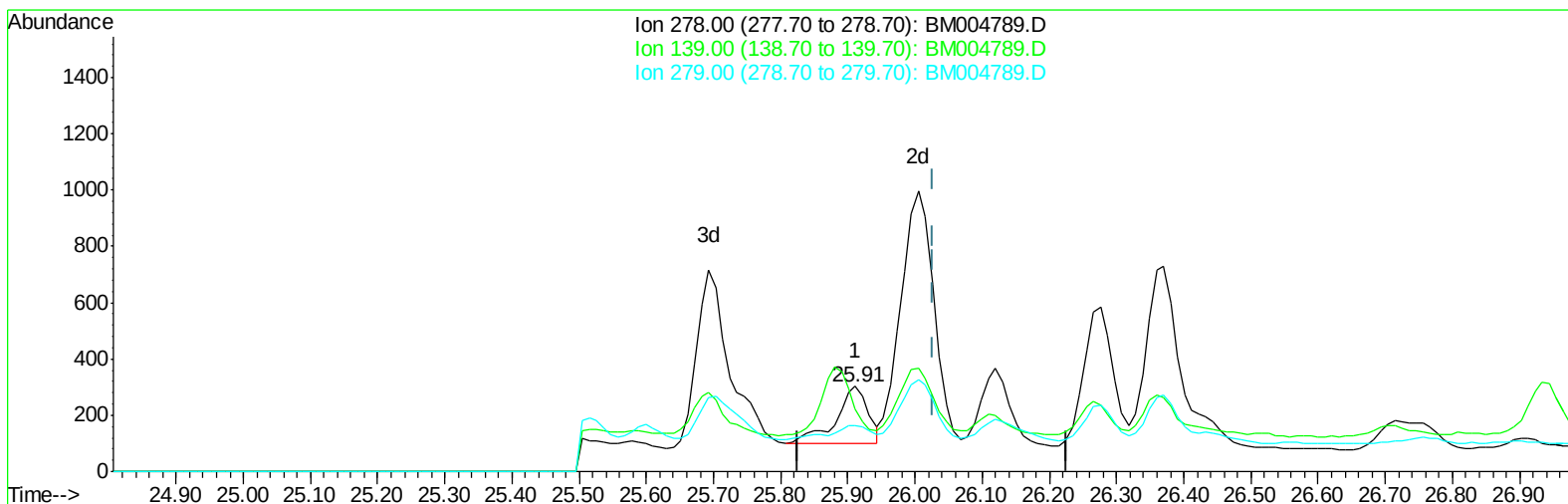
25.995min (-0.011) 0.66ng/ul m

response 13142

Ion	Exp%	Act%
276.00	100	100
138.00	20.40	2.72#
277.00	24.80	4.10#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM032516\
Data File : BM004789.D
Acq On : 25 Mar 2016 22:08
Operator : UM/SJ
Sample : H1909-15
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 05 19:33:04 2016
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TIC: BM004789.D

(27) Dibenzo(a,h)anthracene

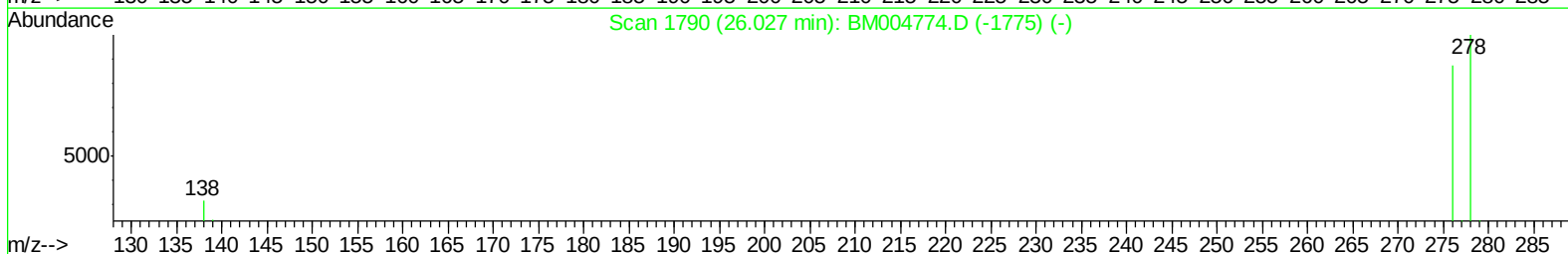
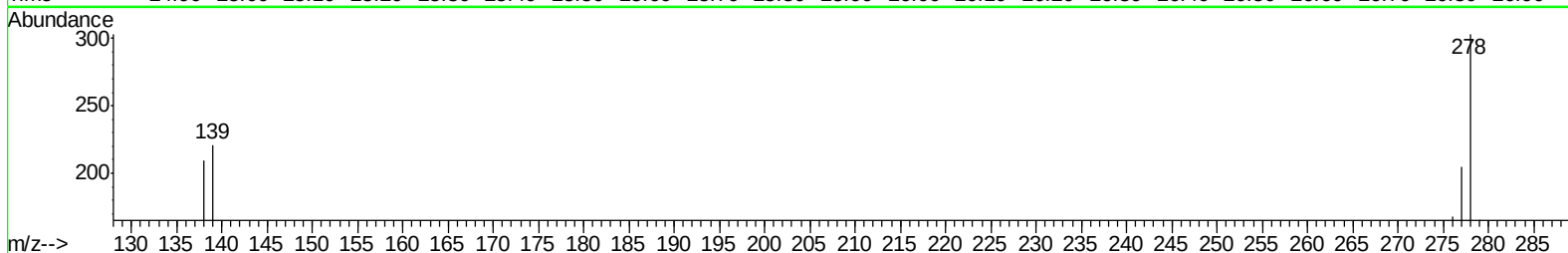
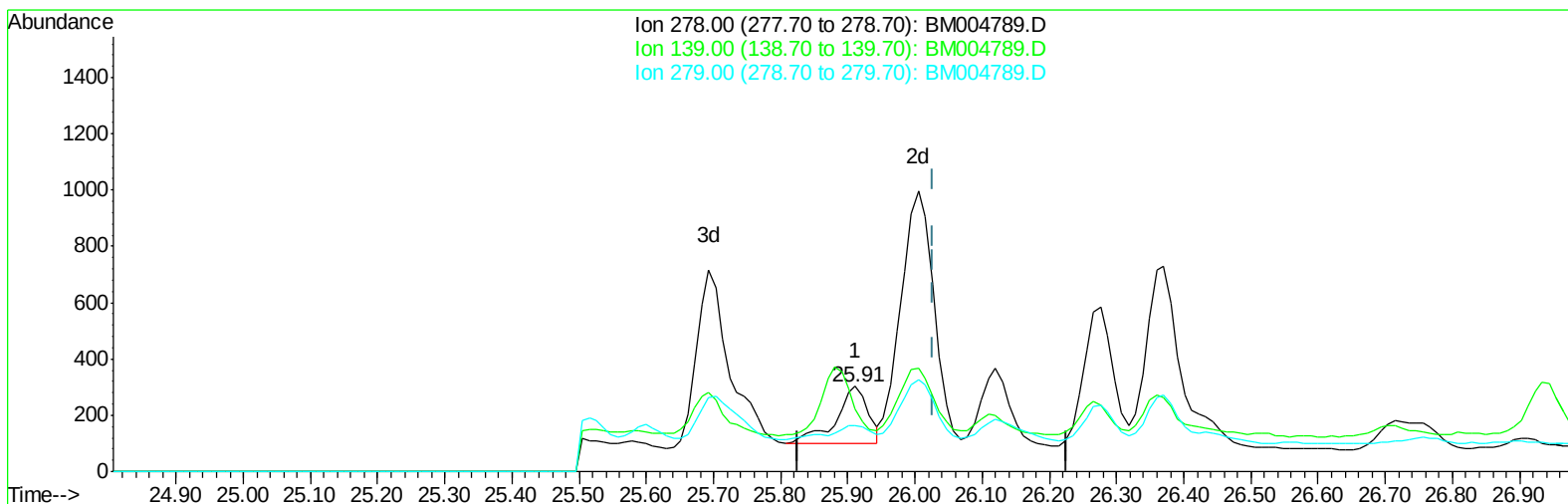
25.911min (-0.115) 0.04ng/ul

response 701

Ion	Exp%	Act%
278.00	100	100
139.00	20.50	72.94#
279.00	25.20	54.46#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM032516\
Data File : BM004789.D
Acq On : 25 Mar 2016 22:08
Operator : UM/SJ
Sample : H1909-15
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 05 19:33:04 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM032516.M
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QLast Update : Tue Apr 05 18:29:16 2016
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TIC: BM004789.D

(27) Dibenzo(a,h)anthracene

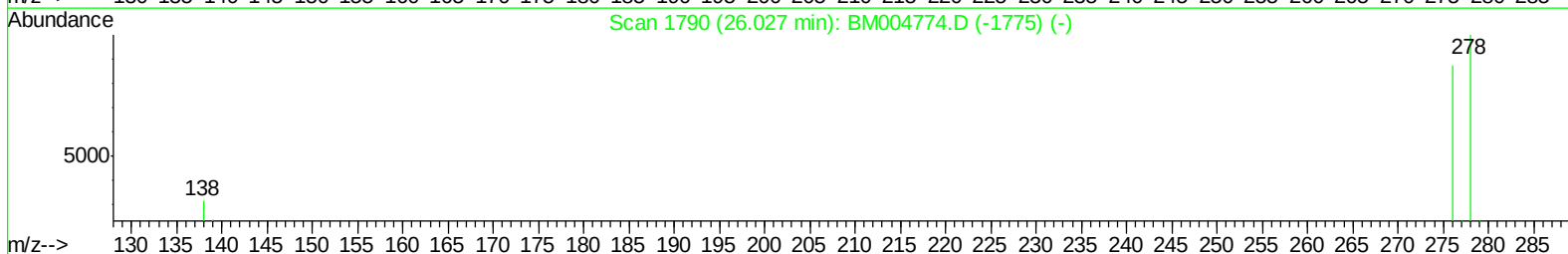
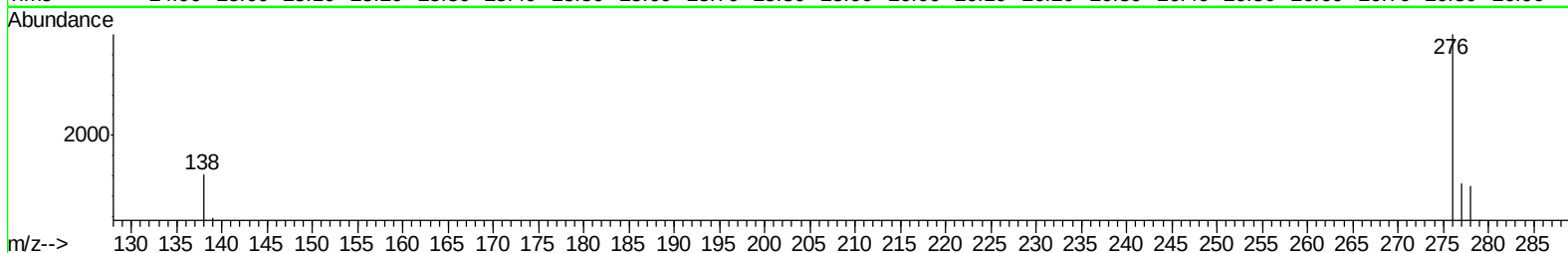
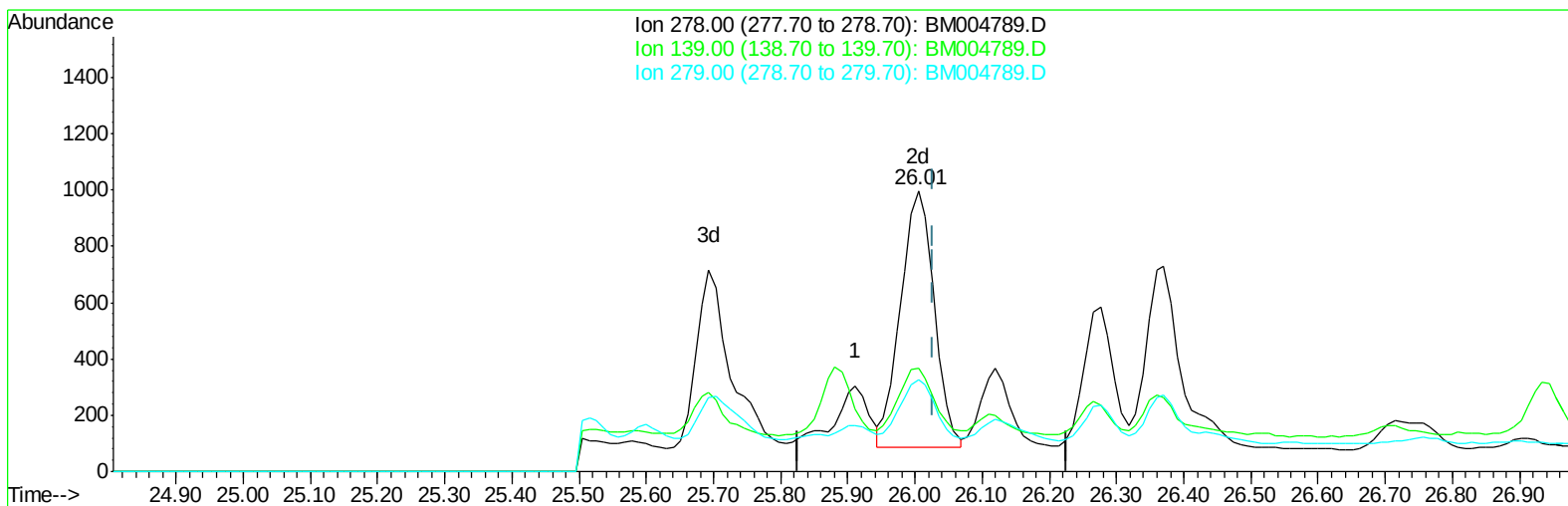
25.911min (-0.115) 0.04ng/ul

response 701

Ion	Exp%	Act%
278.00	100	100
139.00	20.50	72.94#
279.00	25.20	54.46#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM032516\
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Acq On : 25 Mar 2016 22:08
Operator : UM/SJ
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Misc :
ALS Vial : 21 Sample Multiplier: 1

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TIC: BM004789.D

(27) Dibenzo(a,h)anthracene

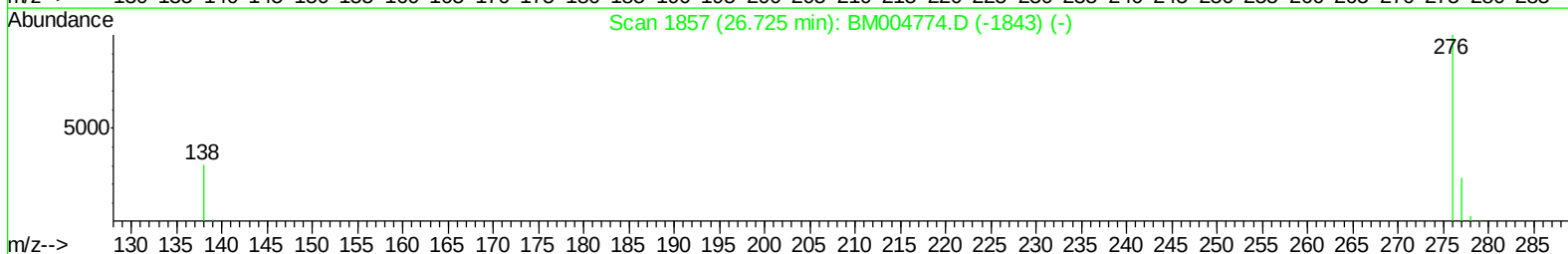
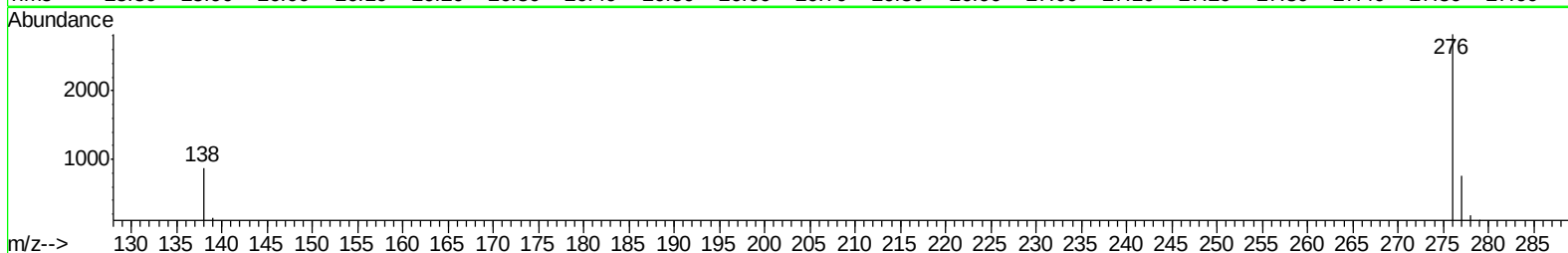
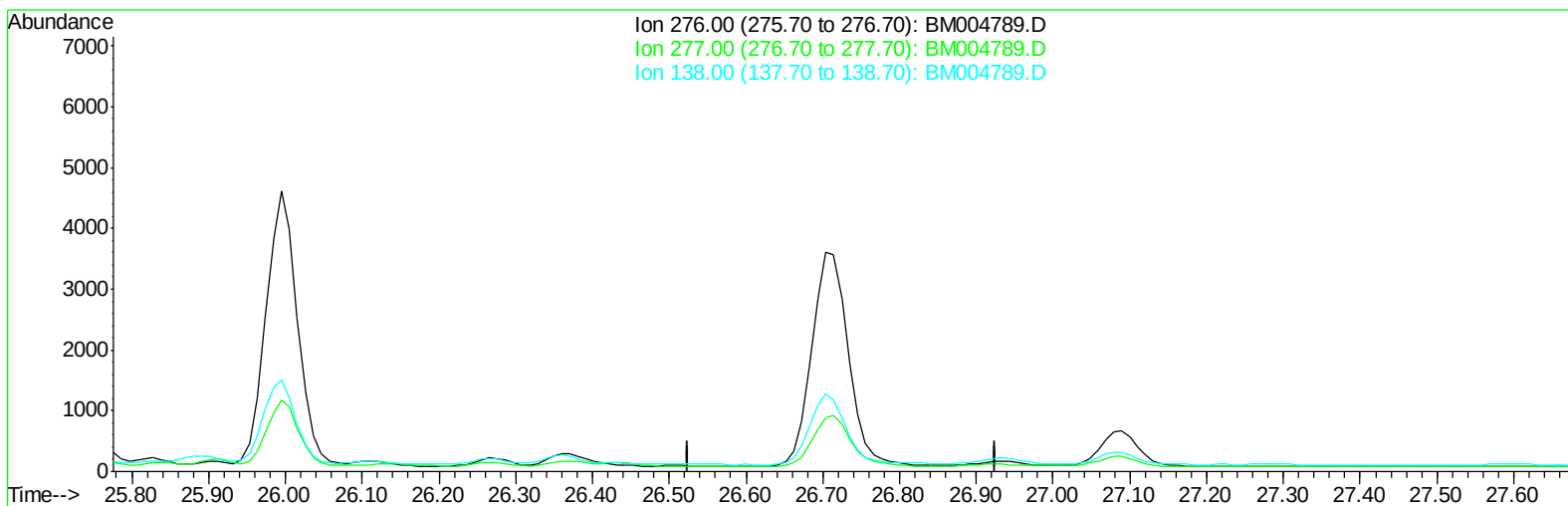
26.005min (-0.021) 0.20ng/ul m

response 3163

Ion	Exp%	Act%
278.00	100	100
139.00	20.50	36.91#
279.00	25.20	32.80#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM032516\
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Acq On : 25 Mar 2016 22:08
Operator : UM/SJ
Sample : H1909-15
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 05 19:33:04 2016
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TIC: BM004789.D

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

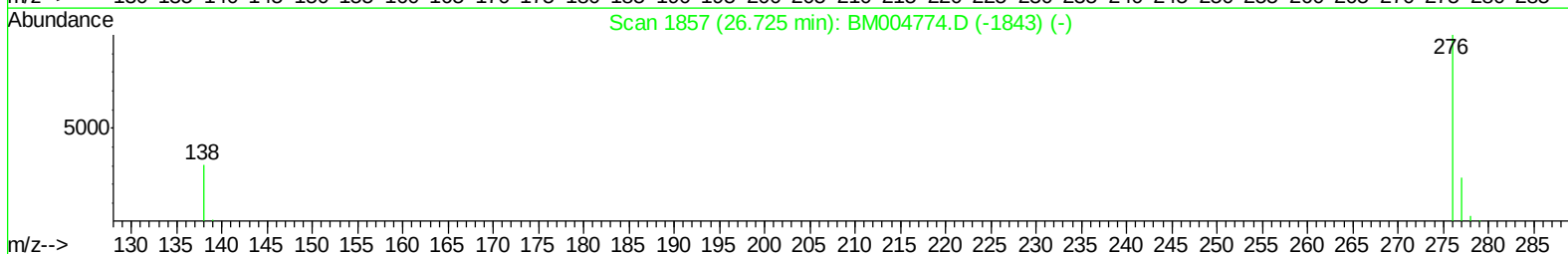
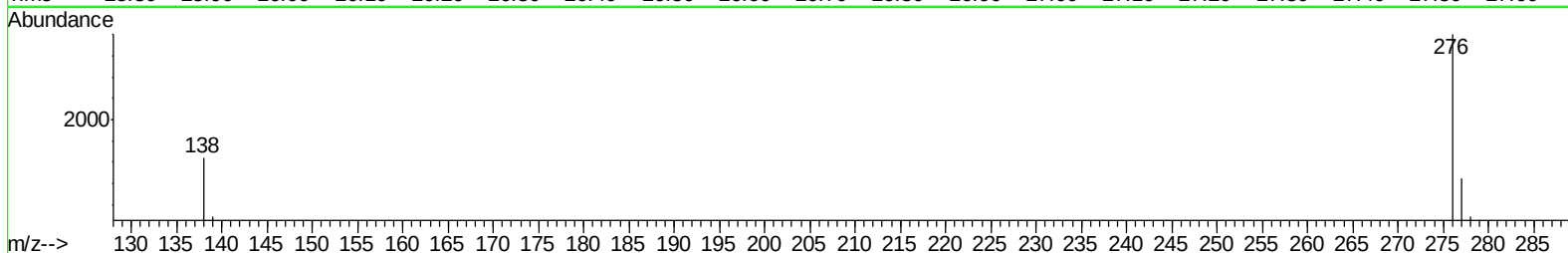
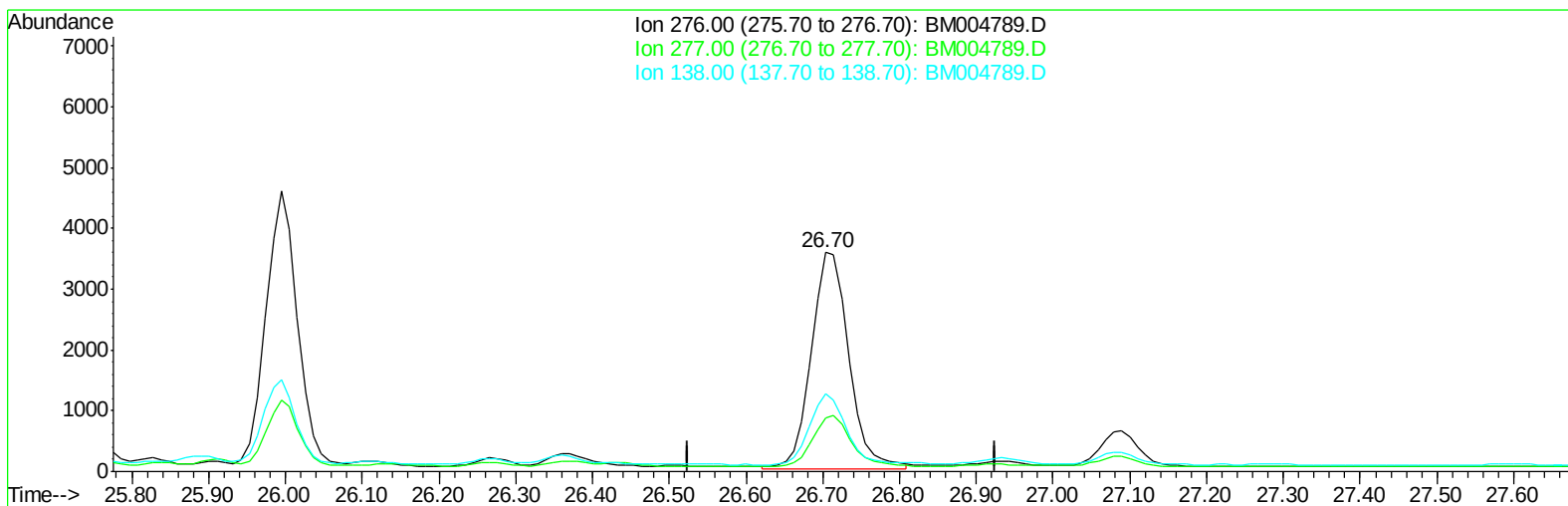
26.725min (-26.725) 0.00ng/ul

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\BM032516\
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Acq On : 25 Mar 2016 22:08
Operator : UM/SJ
Sample : H1909-15
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 05 19:33:04 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM032516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 05 18:29:16 2016
Response via : Initial Calibration



TIC: BM004789.D

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

26.704min (-0.021) 0.73ng/ul m

response 12046

Ion	Exp%	Act%
276.00	100	100
277.00	23.60	24.71
138.00	28.10	35.34#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM032516\
 Data File : BM004789.D
 Acq On : 25 Mar 2016 22:08
 Operator : UM/SJ
 Sample : H1909-15
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 05 19:35:37 2016

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM032516.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Apr 05 18:29:16 2016

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	1243	0.40	ng/ul	0.00
4) Naphthalene-d8	10.62	136	5800	0.40	ng/ul	0.00
8) Acenaphthene-d10	14.47	164	3526	0.40	ng/ul	0.00
12) Phenanthrene-d10	17.21	188	7953m	0.40	ng/ul	0.00
18) Chrysene-d12	21.39	240	7789	0.40	ng/ul	-0.01
22) Perylene-d12	23.68	264	7016m	0.40	ng/ul	-0.01
System Monitoring Compounds						
2) 1,4-Dioxane-d8	3.32	96	4799	8.57	ng/uL	0.00
6) 2-Methylnaphthalene-d10	12.21	152	2179	0.27	ng/ul	0.00
16) Fluoranthene-d10	19.23	212	5065	0.27	ng/ul	-0.01
Target Compounds				Qvalue		
5) Naphthalene	10.67	128	1380	0.10	ng/ul#	84
7) 2-Methylnaphthalene	12.28	142	334	0.03	ng/ul	97
9) Acenaphthylene	14.18	152	3193	0.20	ng/ul#	95
10) Acenaphthene	14.52	153	318	0.03	ng/ul#	83
11) Fluorene	15.51	166	588	0.04	ng/ul#	81
14) Phenanthrene	17.24	178	12668	0.57	ng/ul	96
15) Anthracene	17.33	178	2983	0.14	ng/ul#	92
17) Fluoranthene	19.27	202	37179m	1.46	ng/ul	
19) Pyrene	19.63	202	34381	1.29	ng/ul	96
20) Benzo(a)anthracene	21.37	228	16541	0.69	ng/ul#	91
21) Chrysene	21.42	228	21707m	0.94	ng/ul	
23) Benzo(b)fluoranthene	22.98	252	31556m	1.34	ng/ul	
24) Benzo(k)fluoranthene	23.02	252	11004m	0.50	ng/ul	
25) Benzo(a)pyrene	23.58	252	20239m	0.94	ng/ul	
26) Indeno(1,2,3-cd)pyrene	25.99	276	13142m	0.66	ng/ul	
27) Dibenzo(a,h)anthracene	26.01	278	3163m	0.20	ng/ul	
28) Benzo(g,h,i)perylene	26.70	276	12046m	0.73	ng/ul	

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

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