

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121016\
 Data File : BM008227.D
 Acq On : 10 Dec 2016 12:03
 Operator : UM/SJ
 Sample : H5863-06RE
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Dec 12 02:47:53 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM112116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 12 02:45:24 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.70	152	590	0.40	ng/ul	0.00
2) Naphthalene-d8	10.46	136	2097	0.40	ng/ul	-0.01
6) Acenaphthene-d10	14.31	164	1441	0.40	ng/ul	-0.02
10) Phenanthrene-d10	17.07	188	2584	0.40	ng/ul	-0.02
16) Chrysene-d12	21.27	240	1708	0.40	ng/ul	0.00
20) Perylene-d12	23.50	264	1582	0.40	ng/ul	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Methylnaphthalene-d10	12.06	152	776	0.26	ng/ul	-0.02
14) Fluoranthene-d10	19.11	212	2843	0.39	ng/ul	-0.02

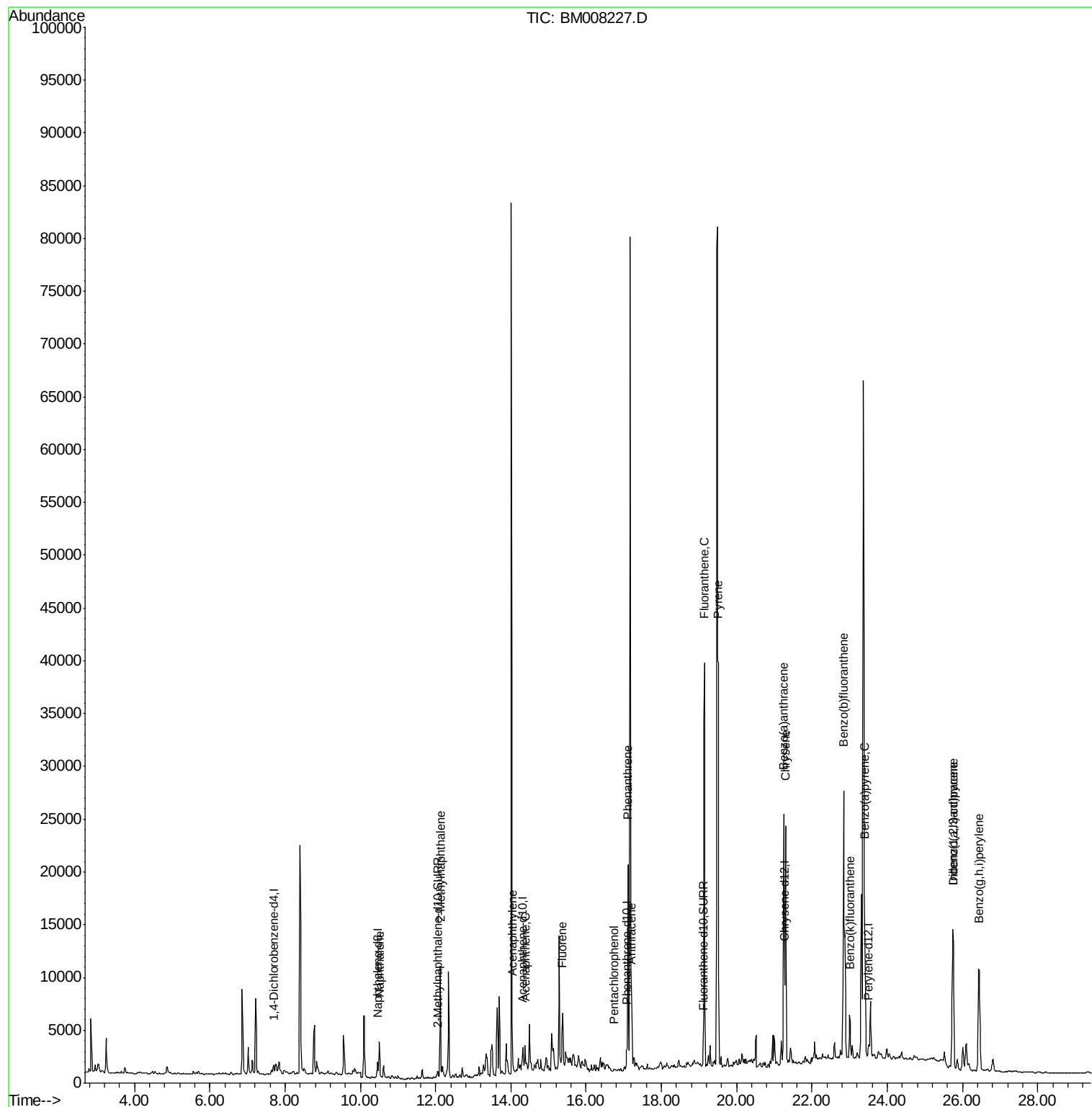
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Naphthalene	10.51	128	5018	0.86	ng/ul	98
5) 2-Methylnaphthalene	12.12	142	7647	2.02	ng/ul	97
7) Acenaphthylene	14.04	152	4465	0.68	ng/ul#	93
8) Acenaphthene	14.38	153	1451	0.29	ng/ul	98
9) Fluorene	15.38	166	3957	0.69	ng/ul#	81
11) Pentachlorophenol	16.75	266	61	0.07	ng/ul#	67
12) Phenanthrene	17.11	178	22140	2.75	ng/ul	97
13) Anthracene	17.21	178	7991	1.06	ng/ul	95
15) Fluoranthene	19.14	202	42210	4.06	ng/ul	94
17) Pyrene	19.51	202	37788	6.37	ng/ul	96
18) Benzo(a)anthracene	21.25	228	21987	4.19	ng/ul	97
19) Chrysene	21.30	228	23770	3.65	ng/ul	95
21) Benzo(b)fluoranthene	22.84	252	55119	8.73	ng/ul	84
22) Benzo(k)fluoranthene	23.00	252	5331	0.82	ng/ul	94
23) Benzo(a)pyrene	23.41	252	23976	4.05	ng/ul#	80
24) Indeno(1,2,3-cd)pyrene	25.74	276	21690	2.97	ng/ul#	91
25) Dibenzo(a,h)anthracene	25.74	278	5966	1.02	ng/ul	93
26) Benzo(g,h,i)perylene	26.43	276	21772	3.36	ng/ul#	90

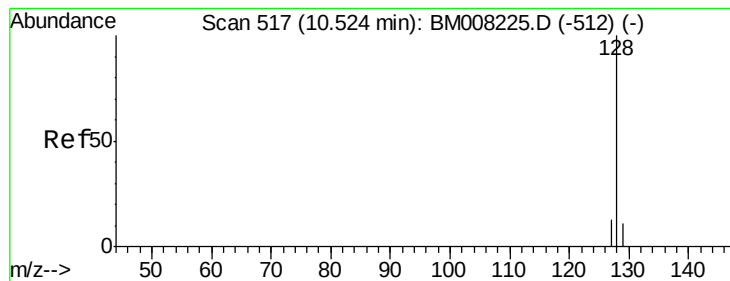
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121016\
Data File : BM008227.D
Acq On : 10 Dec 2016 12:03
Operator : UM/SJ
Sample : H5863-06RE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :

Quant Time: Dec 12 02:47:53 2016
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 12 02:45:24 2016
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.86 ng/ul

RT: 10.51 min Scan# 516

Delta R.T. -0.01 min

Lab File: BM008227.D

Acq: 10 Dec 2016 12:03

Instrument :

BNA_M

ClientSampleId :

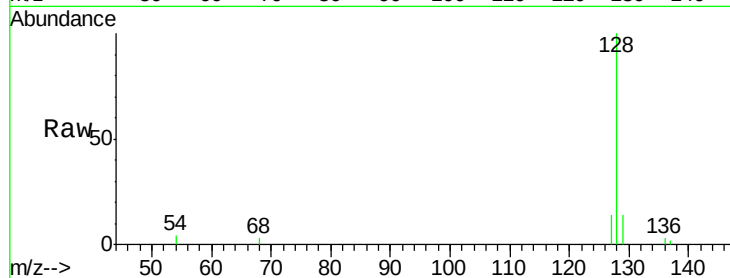
Tot Ion:128 Resp: 5018

Ion Ratio Lower Upper

128 100

129 14.1 11.3 16.9

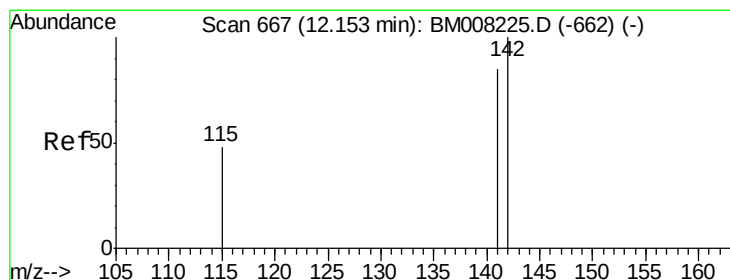
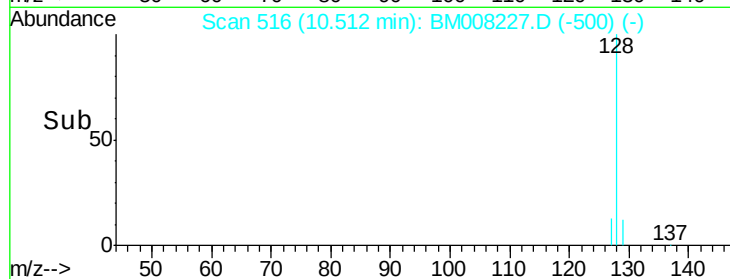
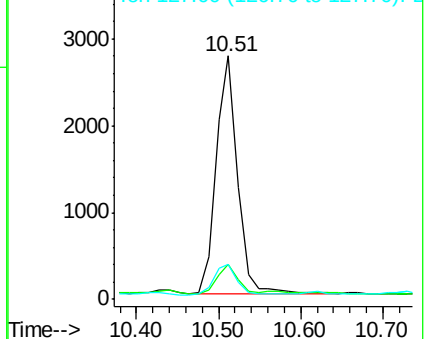
127 14.5 12.8 19.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#5

2-Methylnaphthalene

Concen: 2.02 ng/ul

RT: 12.12 min Scan# 664

Delta R.T. -0.03 min

Lab File: BM008227.D

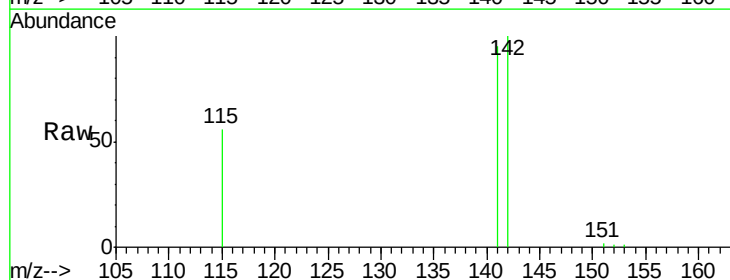
Acq: 10 Dec 2016 12:03

Tgt Ion:142 Resp: 7647

Ion Ratio Lower Upper

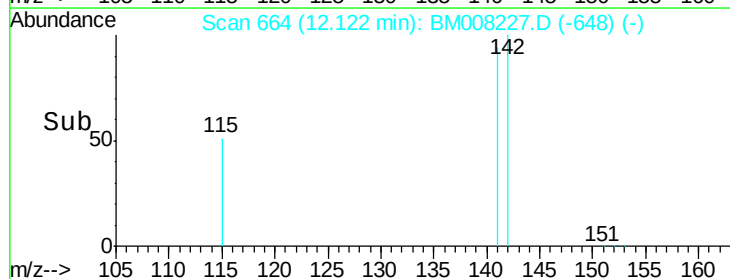
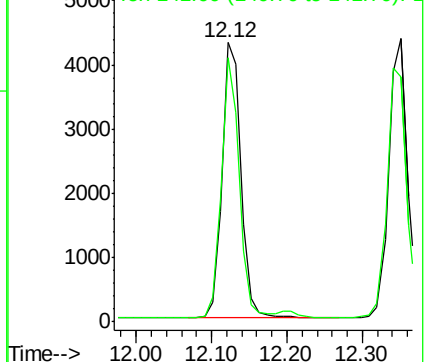
142 100

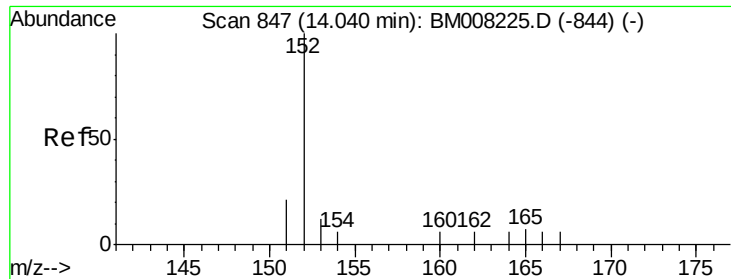
141 88.1 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.68 ng/ul

RT: 14.04 min Scan# 847

Delta R.T. -0.00 min

Lab File: BM008227.D

Acq: 10 Dec 2016 12:03

Instrument :

BNA_M

ClientSampleId :

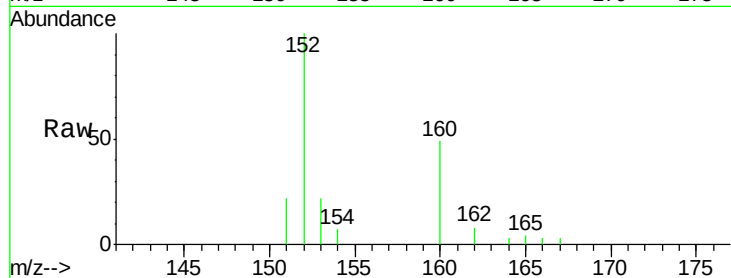
Tot Ion:152 Resp: 4465

Ion Ratio Lower Upper

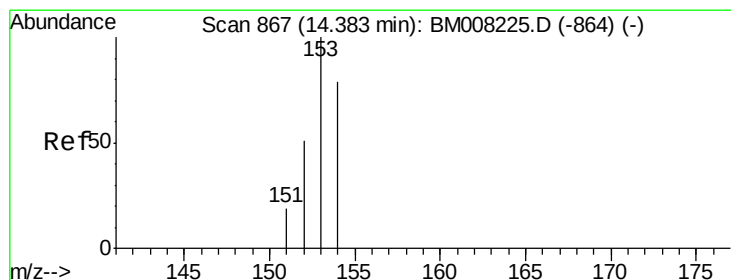
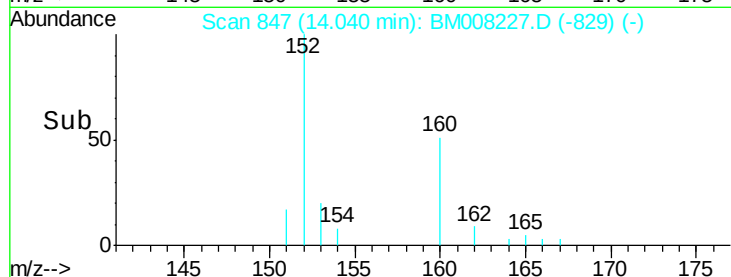
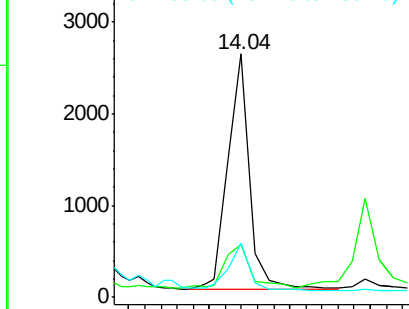
152 100

151 21.8 17.1 25.7

153 22.4 12.8 19.2#



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#8

Acenaphthene

Concen: 0.29 ng/ul

RT: 14.38 min Scan# 867

Delta R.T. 0.00 min

Lab File: BM008227.D

Acq: 10 Dec 2016 12:03

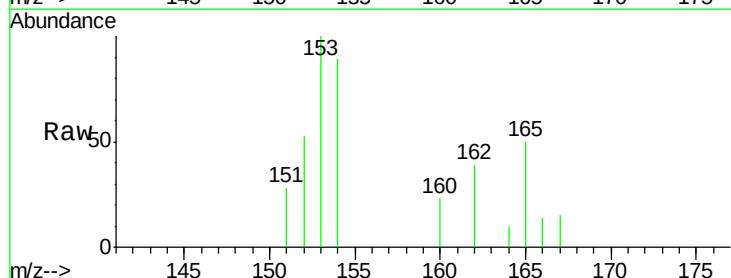
Tgt Ion:153 Resp: 1451

Ion Ratio Lower Upper

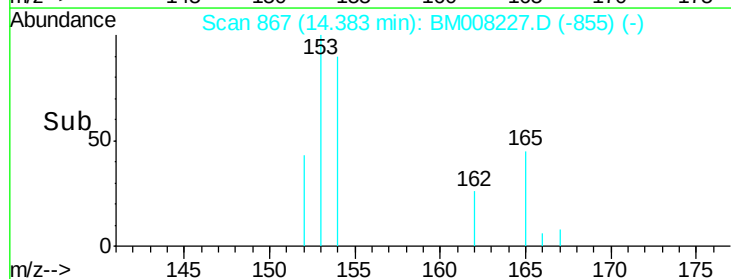
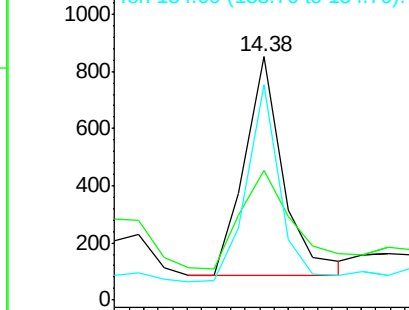
153 100

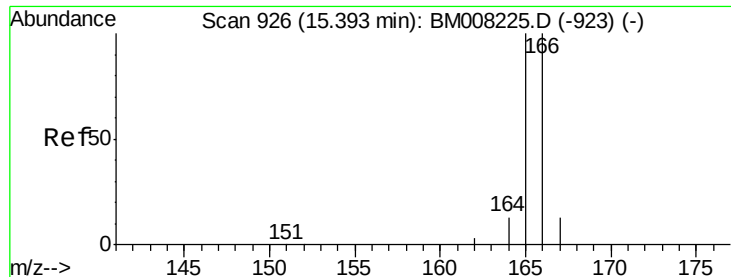
152 53.1 40.3 60.5

154 88.6 71.4 107.2



Abundance Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E
Ion 154.00 (153.70 to 154.70): E





#9

Fluorene

Concen: 0.69 ng/ul

RT: 15.38 min Scan# 925

Delta R.T. -0.02 min

Lab File: BM008227.D

Acq: 10 Dec 2016 12:03

Instrument :

BNA_M

ClientSampleId :

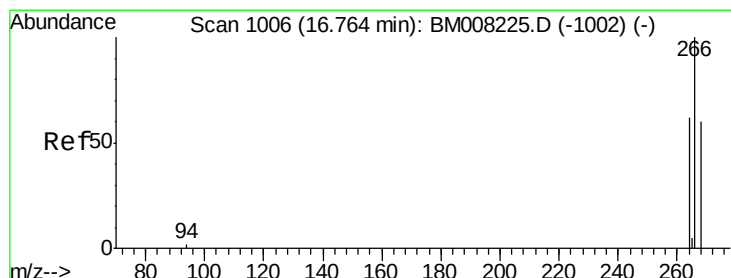
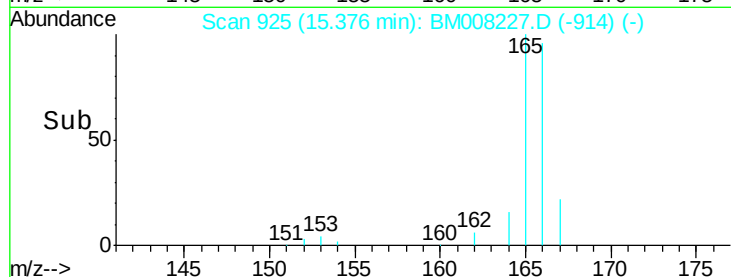
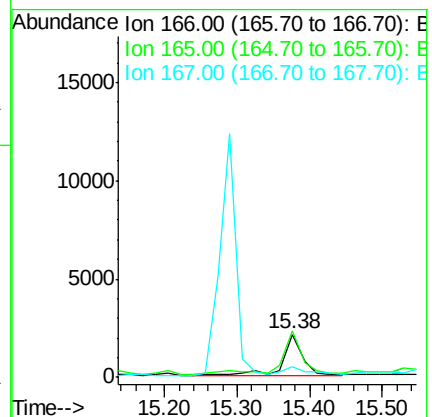
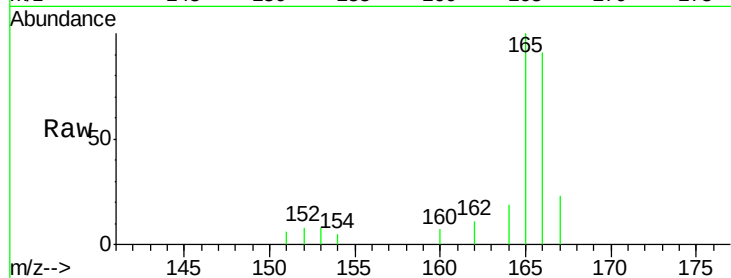
Tot Ion:166 Resp: 3957

Ion Ratio Lower Upper

166 100

165 109.9 73.4 110.2

167 25.4 14.6 22.0#



#11

Pentachlorophenol

Concen: 0.07 ng/ul

RT: 16.75 min Scan# 1005

Delta R.T. -0.02 min

Lab File: BM008227.D

Acq: 10 Dec 2016 12:03

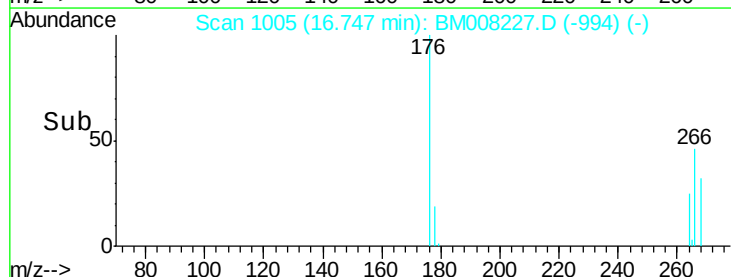
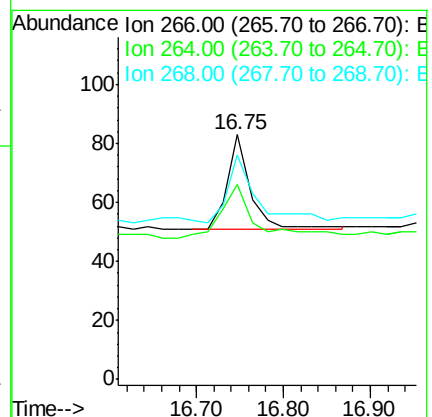
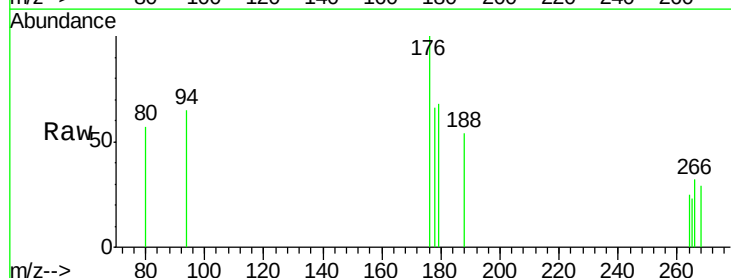
Tgt Ion:266 Resp: 61

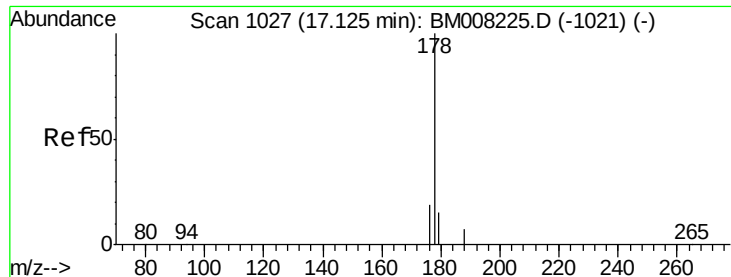
Ion Ratio Lower Upper

266 100

264 80.3 47.9 71.9#

268 91.8 49.8 74.8#





#12

Phenanthrene

Concen: 2.75 ng/ul

RT: 17.11 min Scan# 1026

Delta R.T. -0.02 min

Lab File: BM008227.D

Acq: 10 Dec 2016 12:03

Instrument :

BNA_M

ClientSampleId :

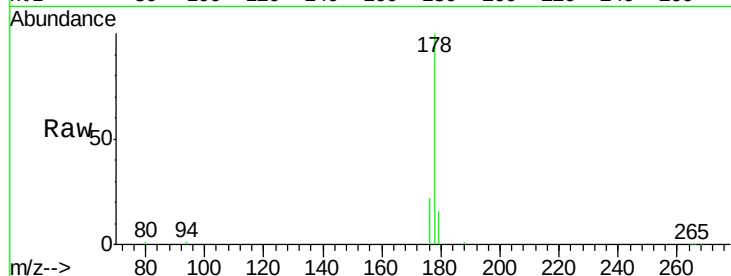
Tot Ion:178 Resp: 22140

Ion Ratio Lower Upper

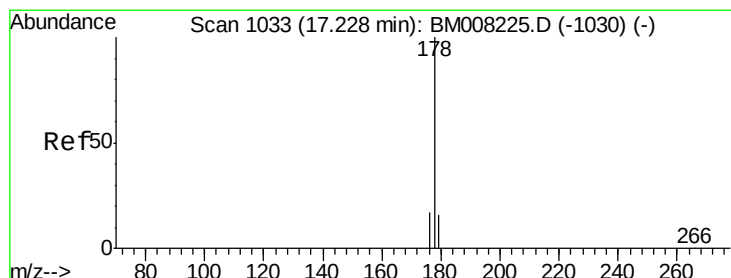
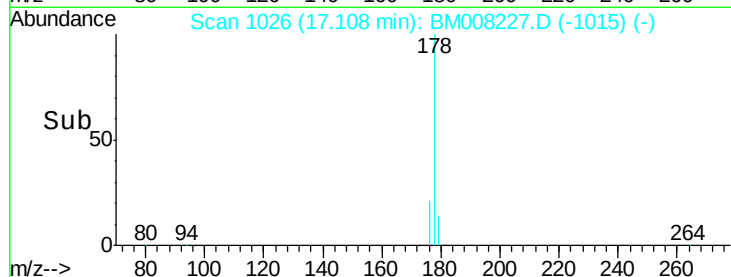
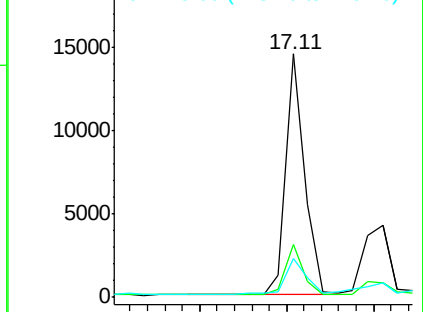
178 100

176 21.7 18.4 27.6

179 15.7 13.6 20.4



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#13

Anthracene

Concen: 1.06 ng/ul

RT: 17.21 min Scan# 1032

Delta R.T. -0.02 min

Lab File: BM008227.D

Acq: 10 Dec 2016 12:03

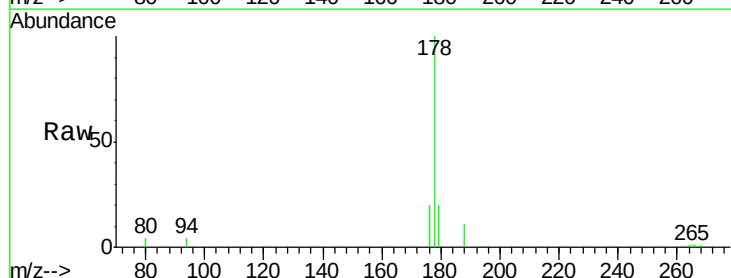
Tgt Ion:178 Resp: 7991

Ion Ratio Lower Upper

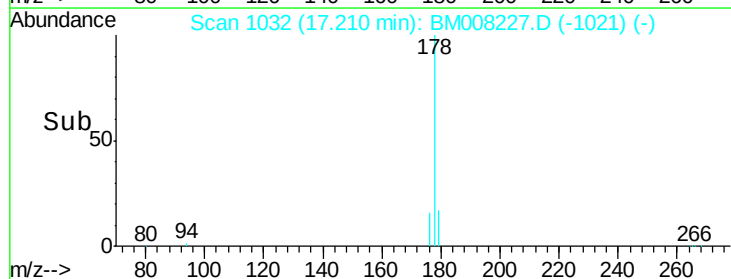
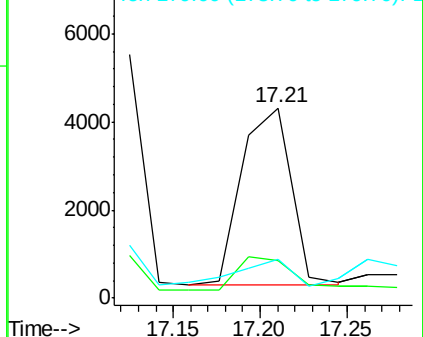
178 100

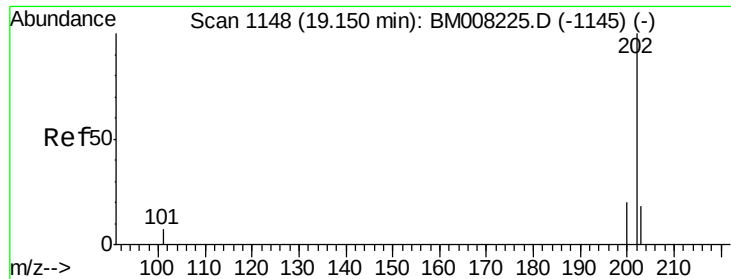
176 19.9 18.1 27.1

179 20.4 14.7 22.1



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

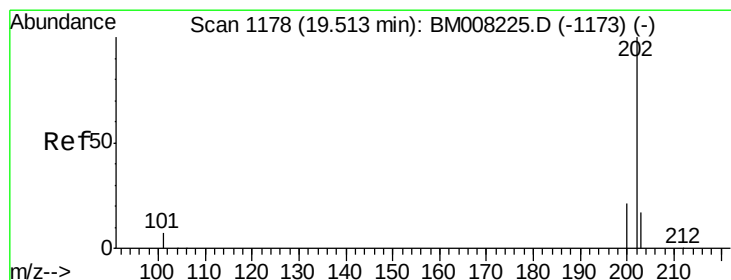
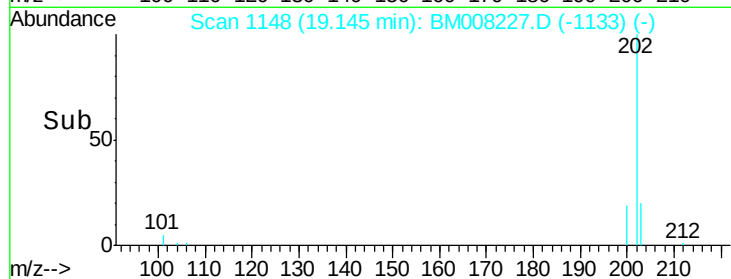
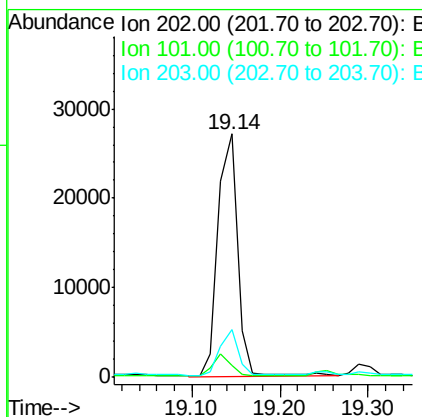
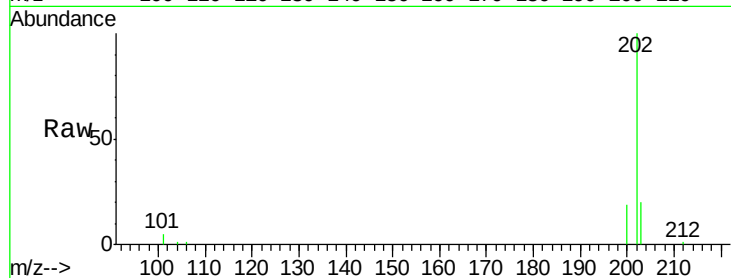




#15
Fluoranthene
Concen: 4.06 ng/ul
RT: 19.14 min Scan# 1148
Delta R.T. -0.01 min
Lab File: BM008227.D
Acq: 10 Dec 2016 12:03

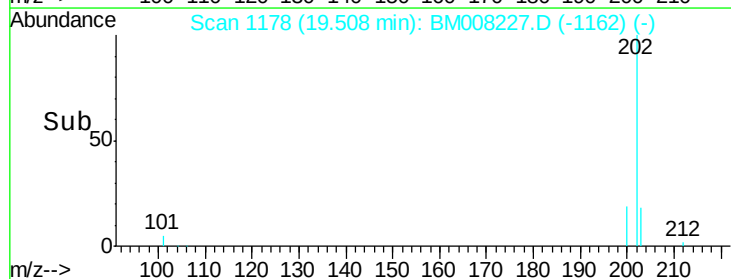
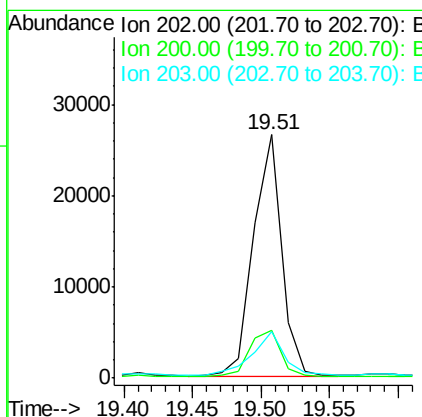
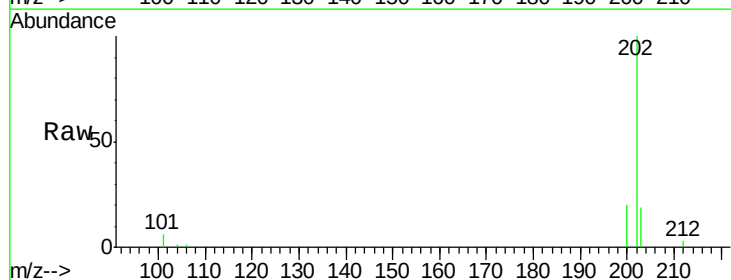
Instrument :
BNA_M
ClientSampleId :

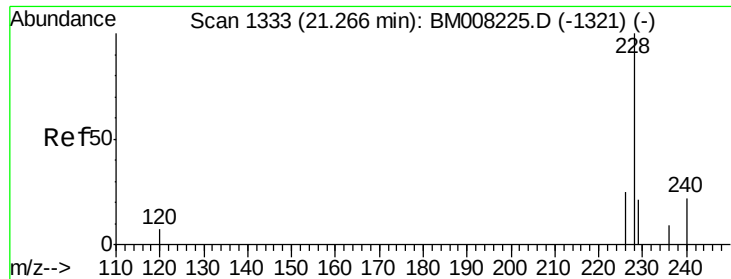
Tot Ion:202 Resp: 42210
Ion Ratio Lower Upper
202 100
101 4.6 0.0 30.3
203 19.8 0.0 39.5



#17
Pyrene
Concen: 6.37 ng/ul
RT: 19.51 min Scan# 1178
Delta R.T. -0.01 min
Lab File: BM008227.D
Acq: 10 Dec 2016 12:03

Tgt Ion:202 Resp: 37788
Ion Ratio Lower Upper
202 100
200 19.8 18.2 27.4
203 19.0 15.6 23.4





#18

Benzo(a)anthracene

Concen: 4.19 ng/ul

RT: 21.25 min Scan# 1332

Delta R.T. -0.01 min

Lab File: BM008227.D

Acq: 10 Dec 2016 12:03

Instrument :

BNA_M

ClientSampleId :

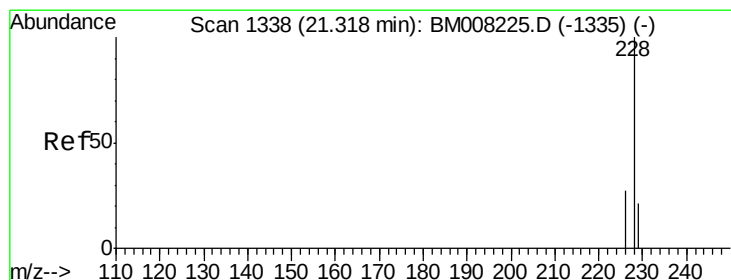
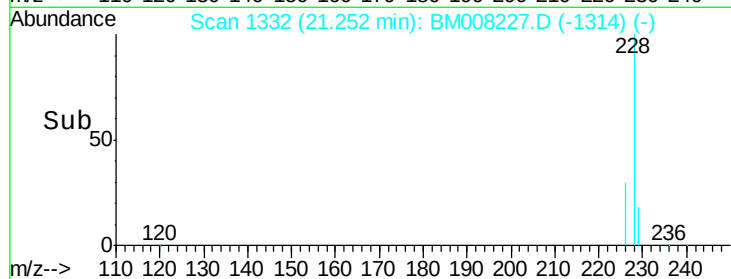
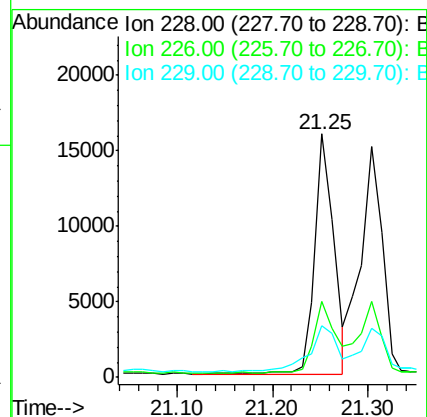
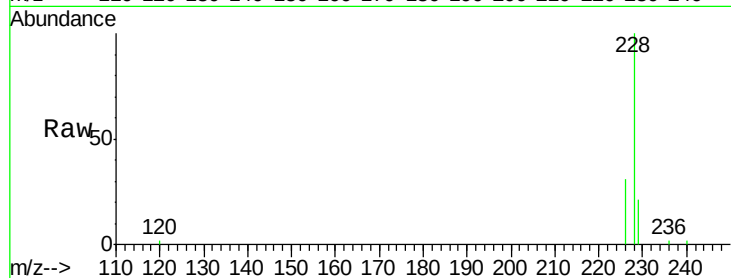
Tot Ion:228 Resp: 21987

Ion Ratio Lower Upper

228 100

226 31.3 22.8 34.2

229 21.3 17.0 25.6



#19

Chrysene

Concen: 3.65 ng/ul

RT: 21.30 min Scan# 1337

Delta R.T. -0.01 min

Lab File: BM008227.D

Acq: 10 Dec 2016 12:03

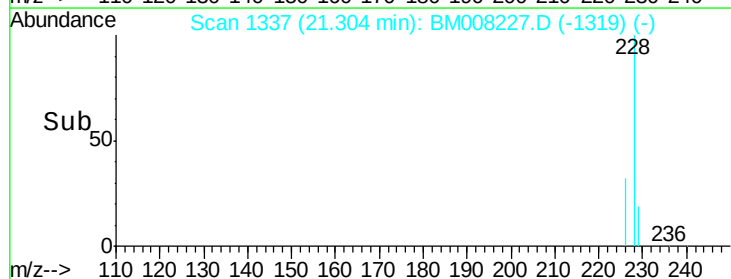
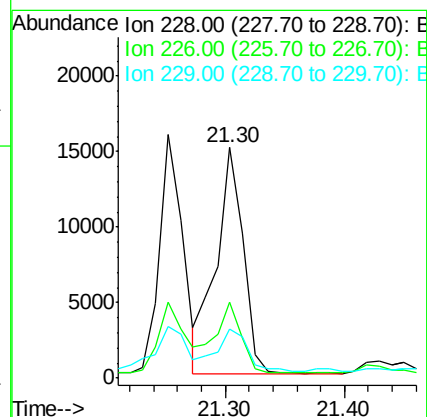
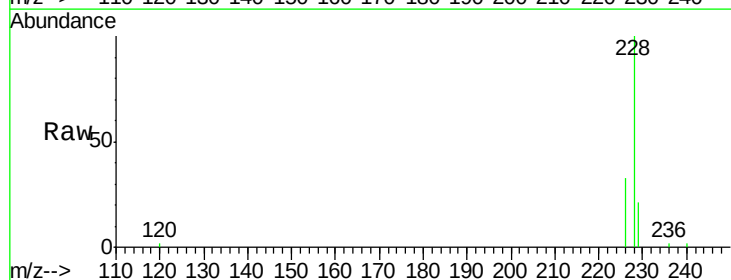
Tgt Ion:228 Resp: 23770

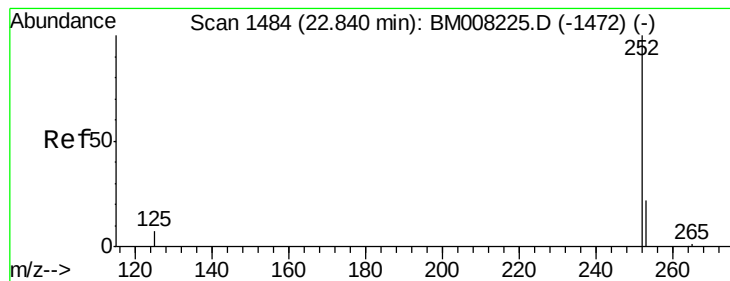
Ion Ratio Lower Upper

228 100

226 33.1 23.4 35.0

229 21.5 17.7 26.5





#21

Benzo(b)fluoranthene

Concen: 8.73 ng/ul

RT: 22.84 min Scan# 1484

Delta R.T. -0.00 min

Lab File: BM008227.D

Acq: 10 Dec 2016 12:03

Instrument :

BNA_M

ClientSampleId :

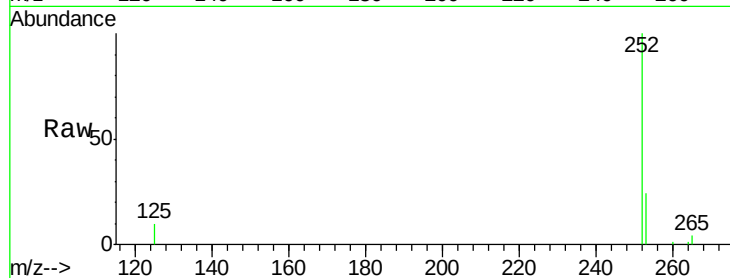
Tot Ion:252 Resp: 55119

Ion Ratio Lower Upper

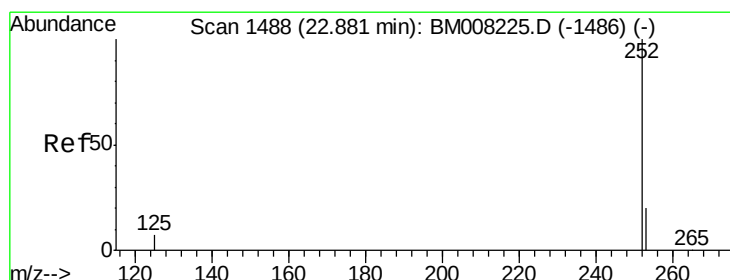
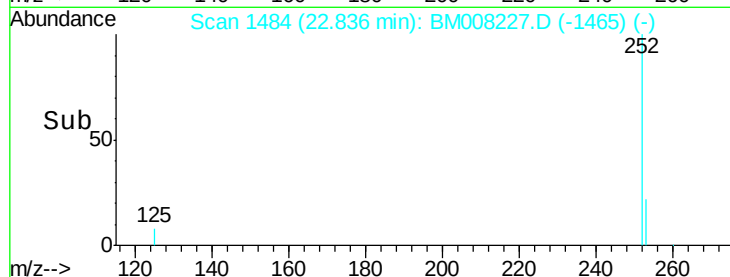
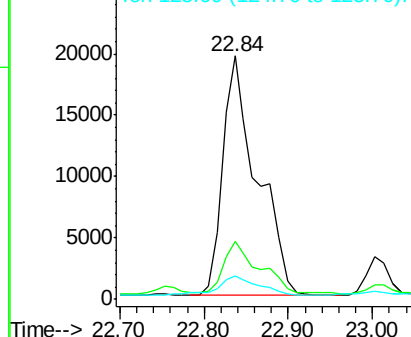
252 100

253 23.9 0.0 64.2

125 9.6 0.0 35.0



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#22

Benzo(k)fluoranthene

Concen: 0.82 ng/ul

RT: 23.00 min Scan# 1500

Delta R.T. 0.12 min

Lab File: BM008227.D

Acq: 10 Dec 2016 12:03

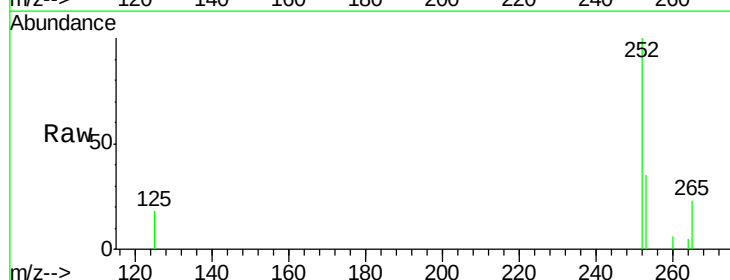
Tgt Ion:252 Resp: 5331

Ion Ratio Lower Upper

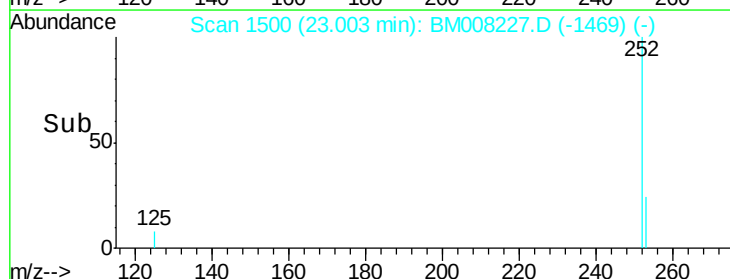
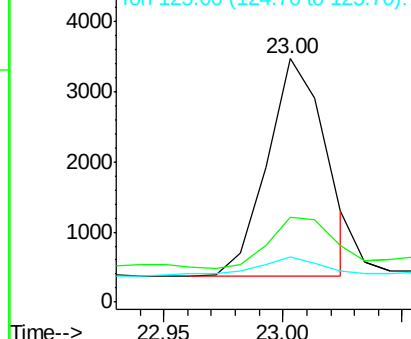
252 100

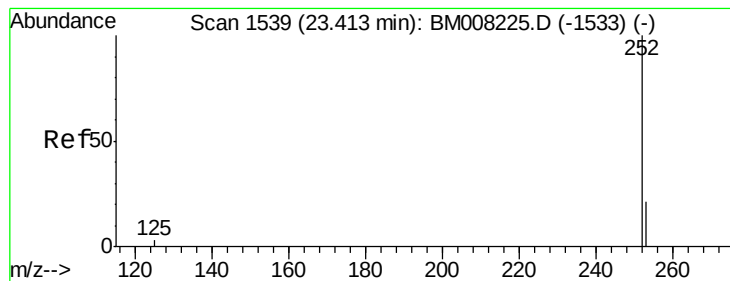
253 34.7 24.5 36.7

125 18.3 13.7 20.5



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 4.05 ng/ul

RT: 23.41 min Scan# 1539

Delta R.T. -0.00 min

Lab File: BM008227.D

Acq: 10 Dec 2016 12:03

Instrument :

BNA_M

ClientSampleId :

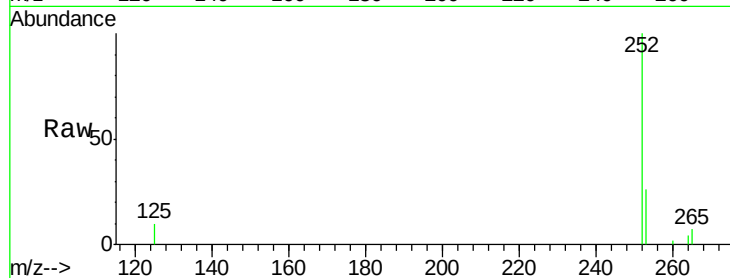
Tot Ion:252 Resp: 23976

Ion Ratio Lower Upper

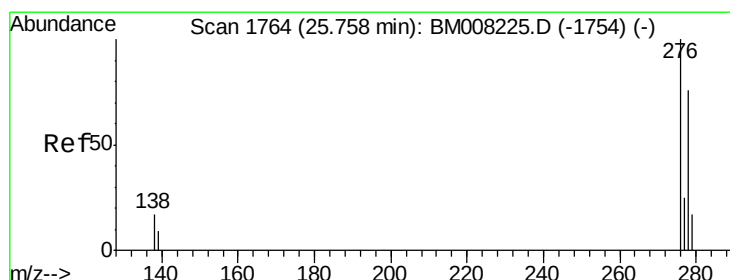
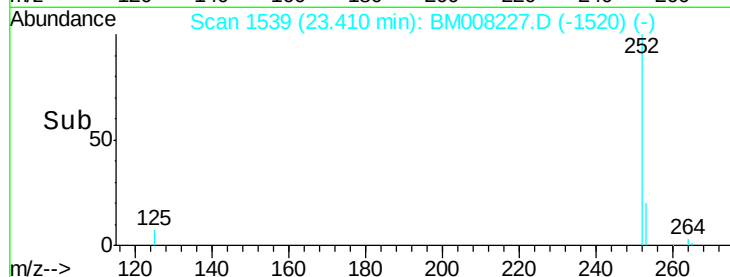
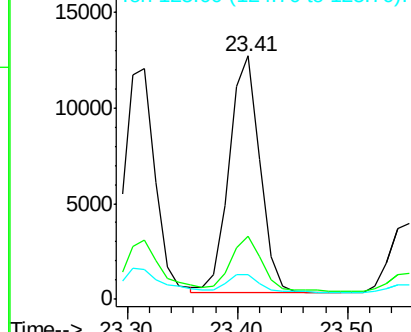
252 100

253 25.8 28.5 42.7#

125 10.1 18.1 27.1#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#24

Indeno(1,2,3-cd)pyrene

Concen: 2.97 ng/ul

RT: 25.74 min Scan# 1763

Delta R.T. -0.01 min

Lab File: BM008227.D

Acq: 10 Dec 2016 12:03

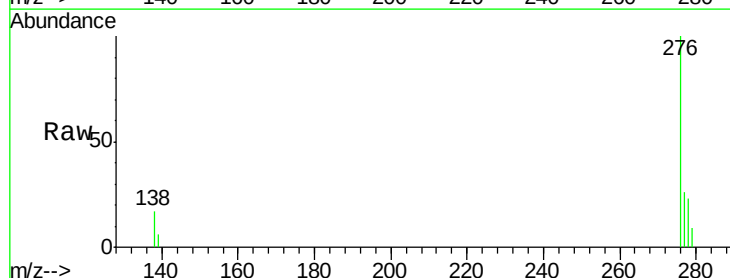
Tgt Ion:276 Resp: 21690

Ion Ratio Lower Upper

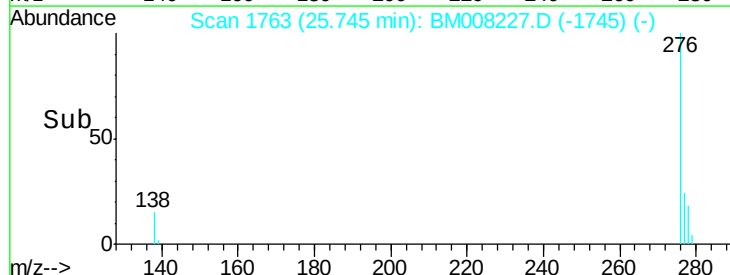
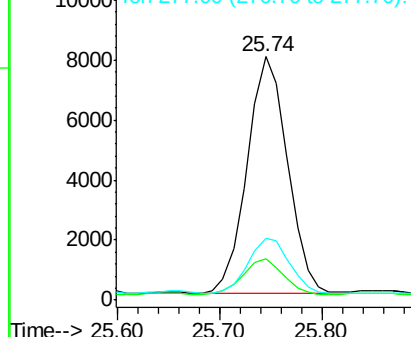
276 100

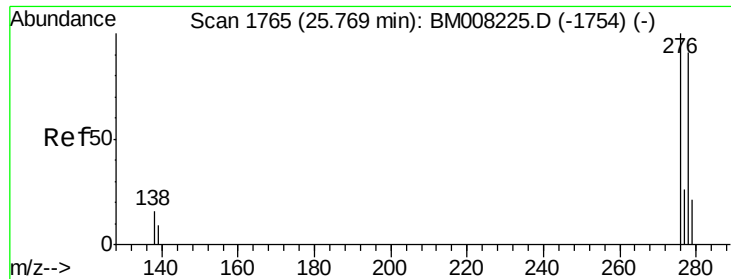
138 15.2 19.1 28.7#

277 24.1 19.6 29.4



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

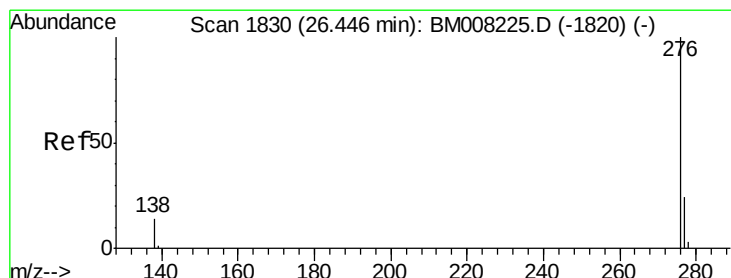
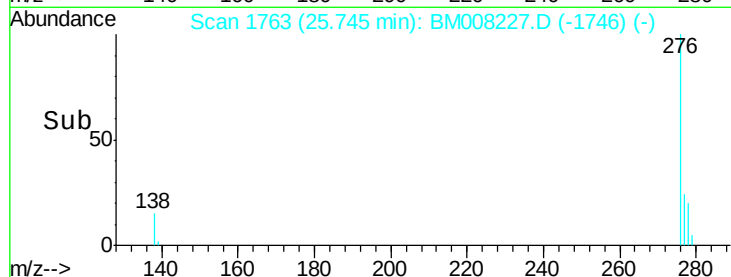
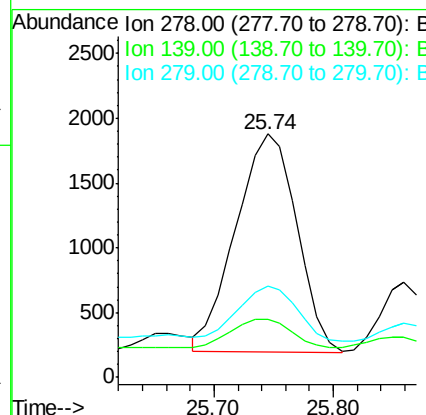
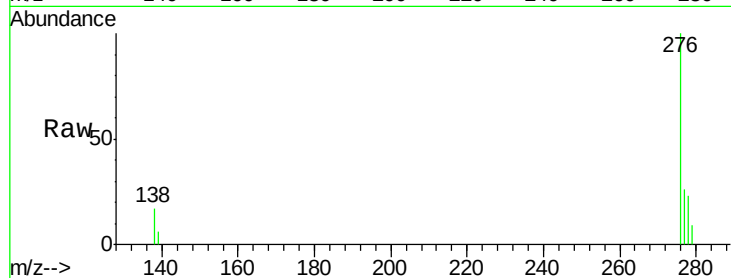




#25
Dibenzo(a,h)anthracene
Concen: 1.02 ng/ul
RT: 25.74 min Scan# 1763
Delta R.T. -0.02 min
Lab File: BM008227.D
Acq: 10 Dec 2016 12:03

Instrument :
BNA_M
ClientSampleId :

Tot Ion:278 Resp: 5966
Ion Ratio Lower Upper
278 100
139 23.9 17.4 26.0
279 37.3 25.9 38.9



#26
Benzo(g,h,i)perylene
Concen: 3.36 ng/ul
RT: 26.43 min Scan# 1829
Delta R.T. -0.01 min
Lab File: BM008227.D
Acq: 10 Dec 2016 12:03

Tgt Ion:276 Resp: 21772
Ion Ratio Lower Upper
276 100
277 25.4 21.8 32.8
138 17.6 20.5 30.7#

