

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM030415\  
 Data File : BM000659.D  
 Acq On : 04 Mar 2015 23:08  
 Operator : TP/IZ  
 Sample : MDL-07-S  
 Misc : MDL-SOIL-0.4PPM  
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 05 02:53:19 2015

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM01.2-EPA-SIM-BM030315.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 04 02:50:23 2015

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.67  | 152  | 4872     | 0.40 | ng/ul | 0.00     |
| 4) Naphthalene-d8         | 10.46 | 136  | 17468    | 0.40 | ng/ul | 0.00     |
| 8) Acenaphthene-d10       | 14.31 | 164  | 7713     | 0.40 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 17.05 | 188  | 21569    | 0.40 | ng/ul | 0.00     |
| 18) Chrysene-d12          | 21.25 | 240  | 14620    | 0.40 | ng/ul | -0.01    |
| 22) Perylene-d12          | 23.46 | 264  | 10976    | 0.40 | ng/ul | 0.00     |

#### System Monitoring Compounds

|                            |       |     |      |      |       |       |
|----------------------------|-------|-----|------|------|-------|-------|
| 2) 1,4-Dioxane-d8          | 3.14  | 96  | 6677 | 1.88 | ng/uL | 0.00  |
| 6) 2-Methylnaphthalene-d10 | 12.03 | 152 | 1    | 0.00 | ng/ul | -0.01 |
| 16) Fluoranthene-d10       | 19.10 | 212 | 14   | 0.00 | ng/ul | 0.01  |

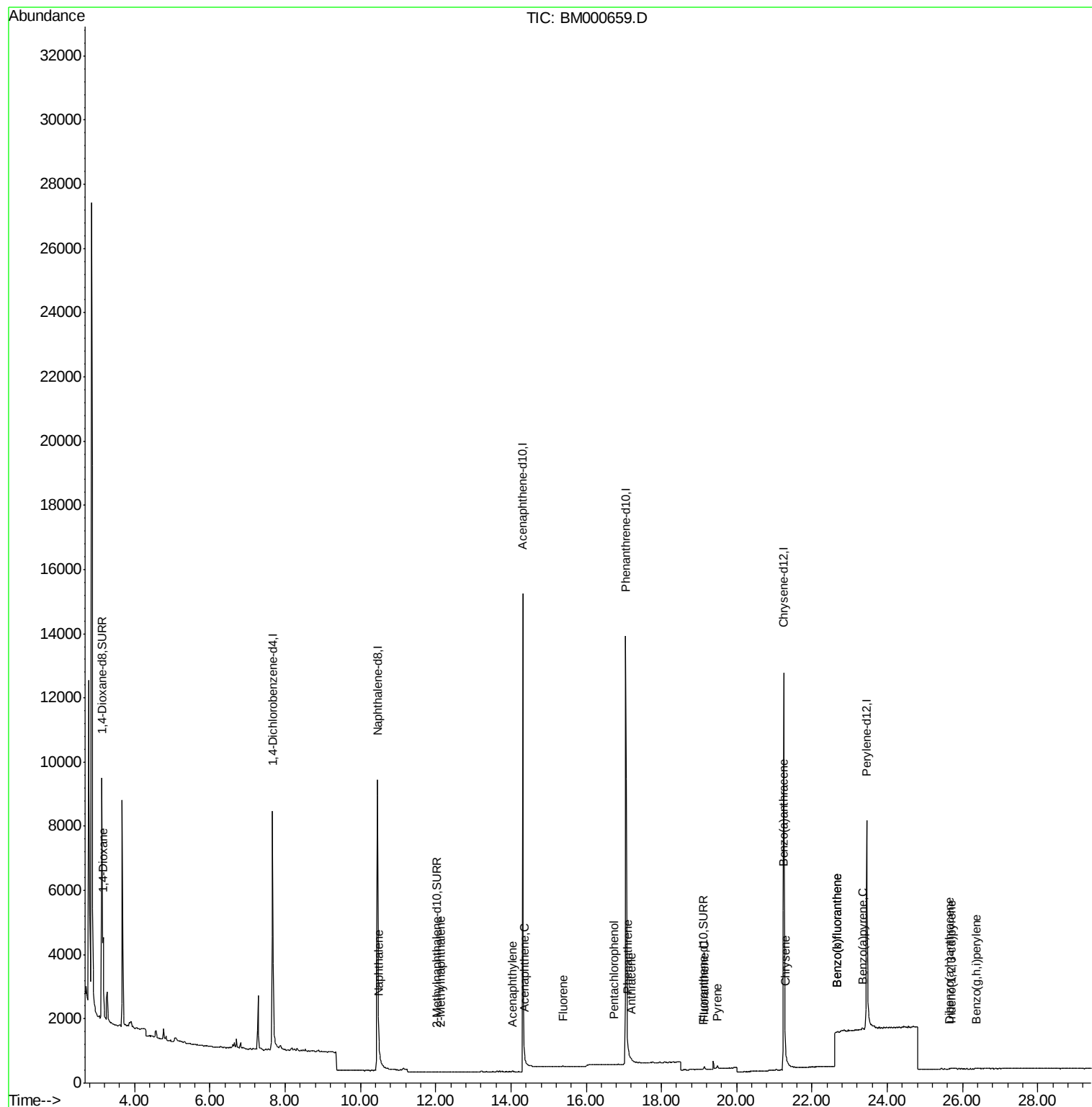
#### Target Compounds

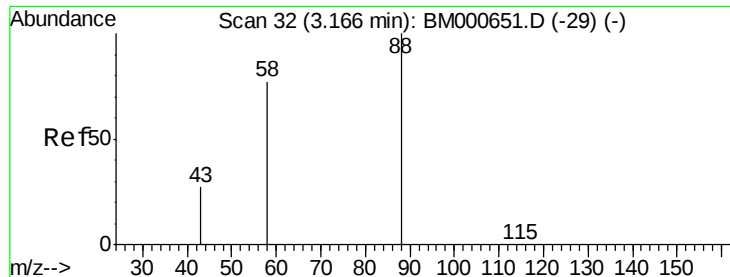
|                            |       |     |      |      |        | Qvalue |
|----------------------------|-------|-----|------|------|--------|--------|
| 3) 1,4-Dioxane             | 3.17  | 88  | 4346 | 0.79 | ng/ul# | 52     |
| 5) Naphthalene             | 10.49 | 128 | 28   | 0.00 | ng/ul# | 1      |
| 7) 2-Methylnaphthalene     | 12.14 | 142 | 32   | 0.00 | ng/ul  | 99     |
| 9) Acenaphthylene          | 14.04 | 152 | 12   | 0.00 | ng/ul# | 1      |
| 10) Acenaphthene           | 14.36 | 153 | 15   | 0.00 | ng/ul# | 71     |
| 11) Fluorene               | 15.38 | 166 | 42   | 0.00 | ng/ul# | 47     |
| 13) Pentachlorophenol      | 16.74 | 266 | 5    | 0.00 | ng/ul# | 45     |
| 14) Phenanthrene           | 17.10 | 178 | 118  | 0.00 | ng/ul# | 1      |
| 15) Anthracene             | 17.19 | 178 | 67   | 0.00 | ng/ul# | 1      |
| 17) Fluoranthene           | 19.14 | 202 | 101  | 0.00 | ng/ul# | 1      |
| 19) Pyrene                 | 19.49 | 202 | 99   | 0.00 | ng/ul# | 1      |
| 20) Benzo(a)anthracene     | 21.24 | 228 | 101  | 0.00 | ng/ul# | 18     |
| 21) Chrysene               | 21.28 | 228 | 99   | 0.00 | ng/ul# | 15     |
| 23) Benzo(b)fluoranthene   | 22.67 | 252 | 909  | 0.02 | ng/ul# | 1      |
| 24) Benzo(k)fluoranthene   | 22.67 | 252 | 909  | 0.02 | ng/ul# | 1      |
| 25) Benzo(a)pyrene         | 23.35 | 252 | 70   | 0.00 | ng/ul# | 1      |
| 26) Indeno(1,2,3-cd)pyrene | 25.70 | 276 | 58   | 0.00 | ng/ul# | 66     |
| 27) Dibenzo(a,h)anthracene | 25.65 | 278 | 2    | 0.00 | ng/ul# | 1      |
| 28) Benzo(g,h,i)perylene   | 26.37 | 276 | 73   | 0.00 | ng/ul# | 1      |

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

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ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 05 02:53:19 2015  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM01.2-EPA-SIM-BM030315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 04 02:50:23 2015  
Response via : Initial Calibration





#3

1,4-Dioxane

Concen: 0.79 ng/ul

RT: 3.17 min Scan# 32

Delta R.T. 0.00 min

Lab File: BM000659.D

Acq: 04 Mar 2015 23:08

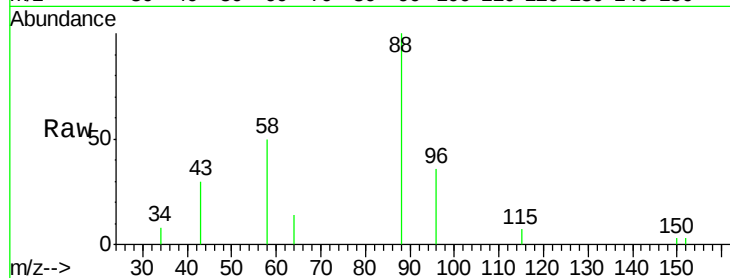
Tgt Ion: 88 Resp: 4346

Ion Ratio Lower Upper

88 100

58 32.3 55.4 83.2#

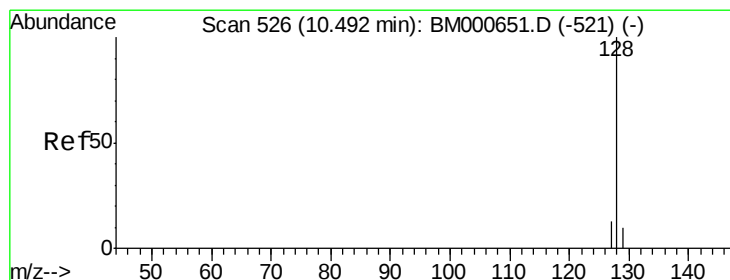
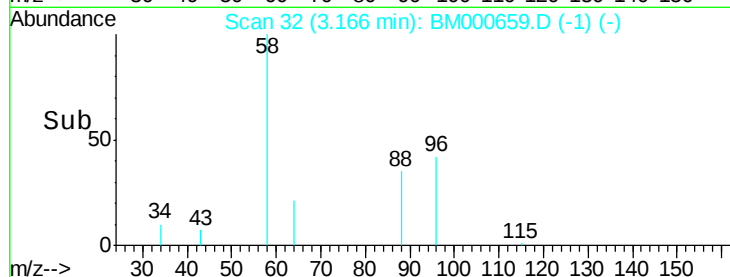
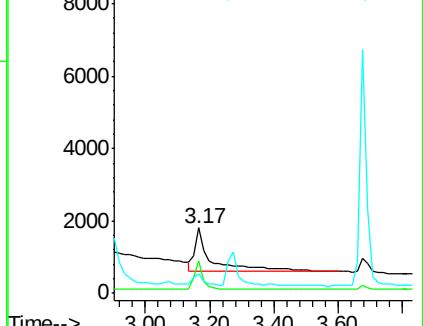
43 0.0 24.2 36.2#



Abundance Ion 88.00 (87.70 to 88.70): BM000659.D (-29) (-)

Ion 58.00 (57.70 to 58.70): BM000659.D (-29) (-)

Ion 43.00 (42.70 to 43.70): BM000659.D (-29) (-)



#5

Naphthalene

Concen: 0.00 ng/ul

RT: 10.49 min Scan# 526

Delta R.T. 0.00 min

Lab File: BM000659.D

Acq: 04 Mar 2015 23:08

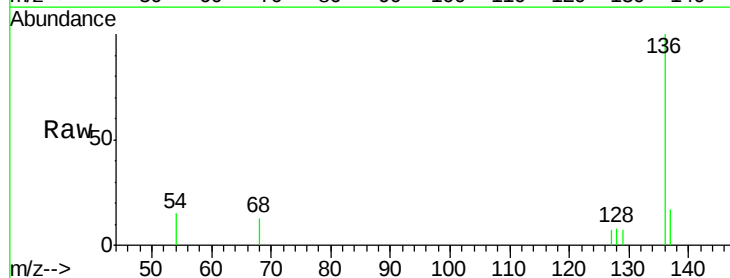
Tgt Ion: 128 Resp: 28

Ion Ratio Lower Upper

128 100

129 81.8 8.5 12.7#

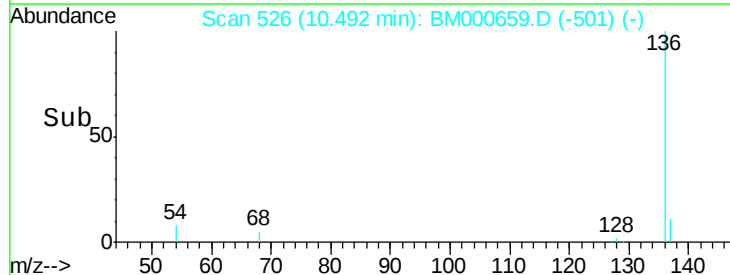
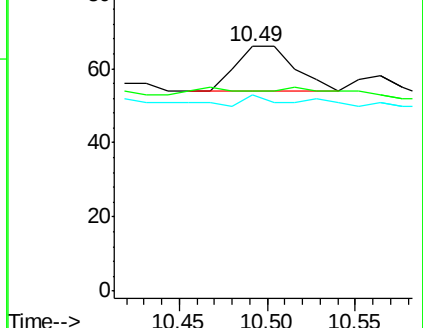
127 80.3 11.0 16.6#

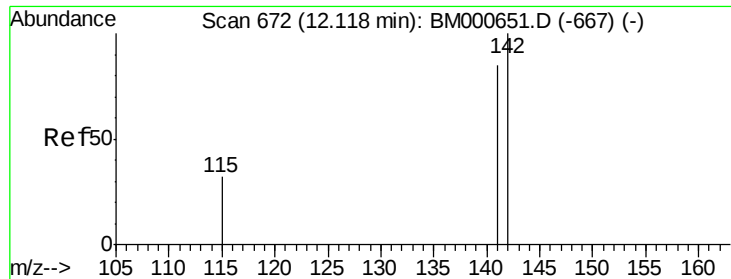


Abundance Ion 128.00 (127.70 to 128.70): BM000659.D (-521) (-)

Ion 129.00 (128.70 to 129.70): BM000659.D (-521) (-)

Ion 127.00 (126.70 to 127.70): BM000659.D (-521) (-)





#7

2-Methylnaphthalene

Concen: 0.00 ng/ul

RT: 12.14 min Scan# 674

Delta R.T. 0.02 min

Lab File: BM000659.D

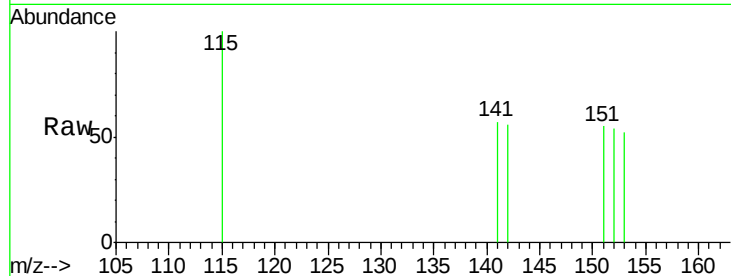
Acq: 04 Mar 2015 23:08

Tgt Ion:142 Resp: 32

Ion Ratio Lower Upper

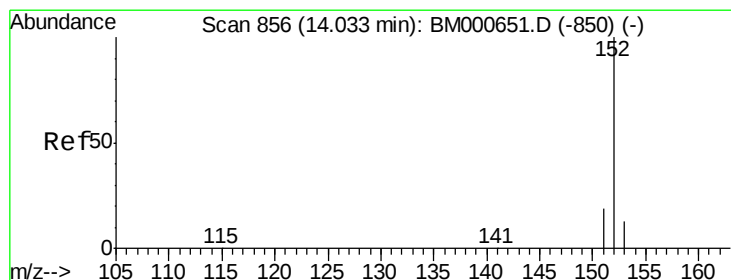
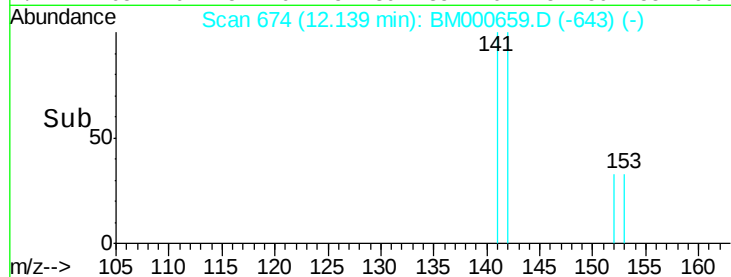
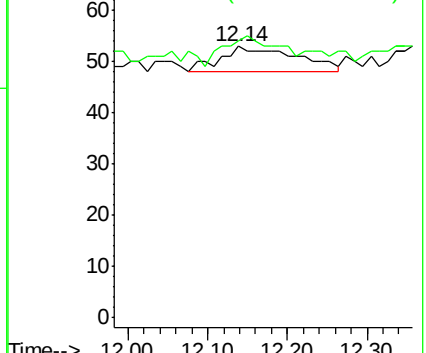
142 100

141 87.5 70.6 106.0



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E



#9

Acenaphthylene

Concen: 0.00 ng/ul

RT: 14.04 min Scan# 857

Delta R.T. 0.01 min

Lab File: BM000659.D

Acq: 04 Mar 2015 23:08

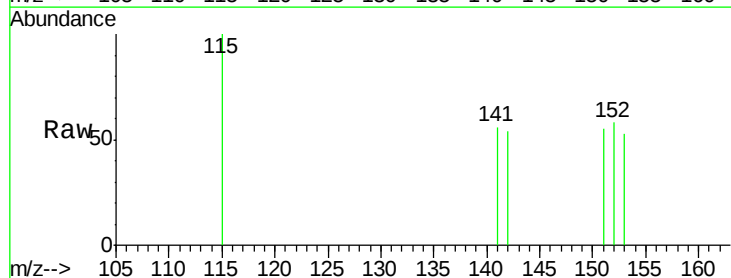
Tgt Ion:152 Resp: 12

Ion Ratio Lower Upper

152 100

151 94.6 16.0 24.0#

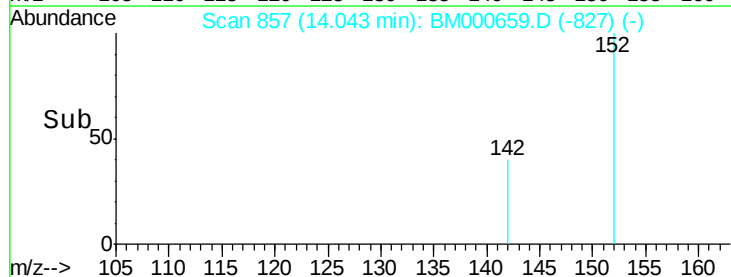
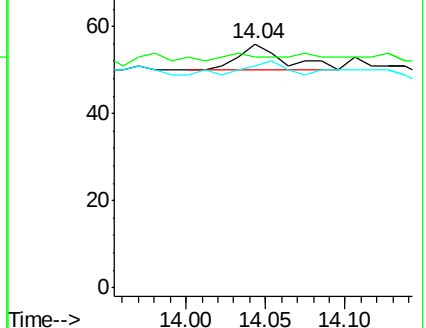
153 91.1 10.2 15.4#

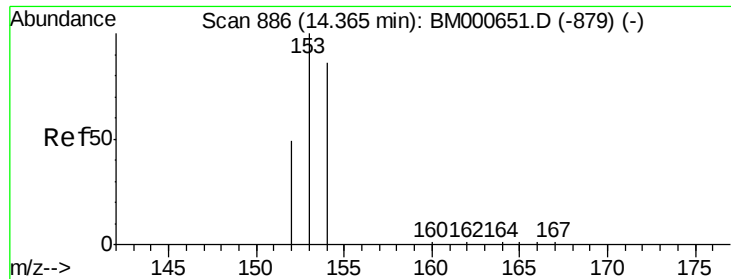


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#10

Acenaphthene

Concen: 0.00 ng/ul

RT: 14.36 min Scan# 886

Delta R.T. -0.02 min

Lab File: BM000659.D

Acq: 04 Mar 2015 23:08

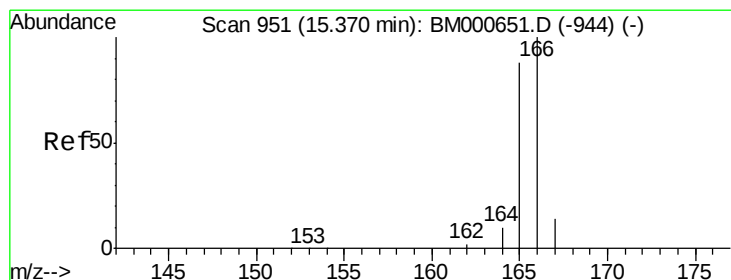
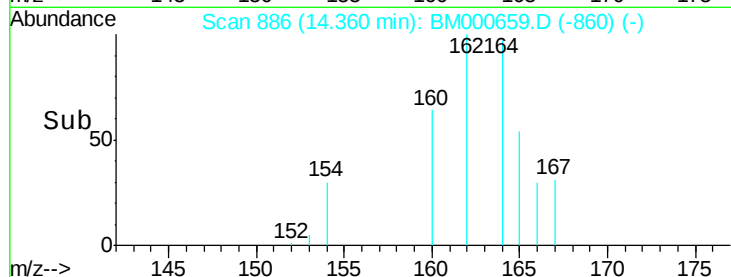
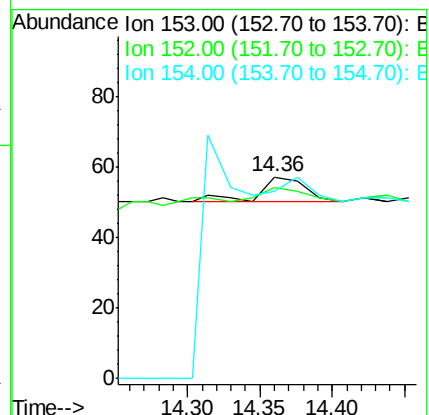
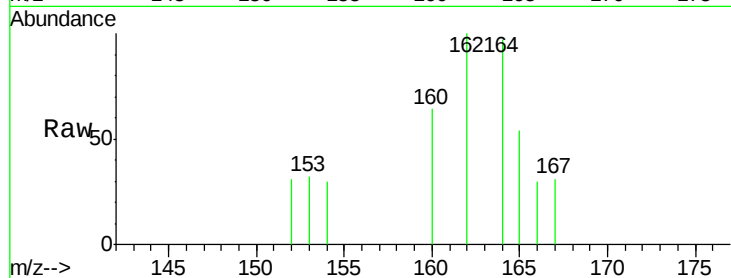
Tgt Ion:153 Resp: 15

Ion Ratio Lower Upper

153 100

152 94.7 34.2 51.2#

154 93.0 78.8 118.2



#11

Fluorene

Concen: 0.00 ng/ul

RT: 15.38 min Scan# 952

Delta R.T. 0.02 min

Lab File: BM000659.D

Acq: 04 Mar 2015 23:08

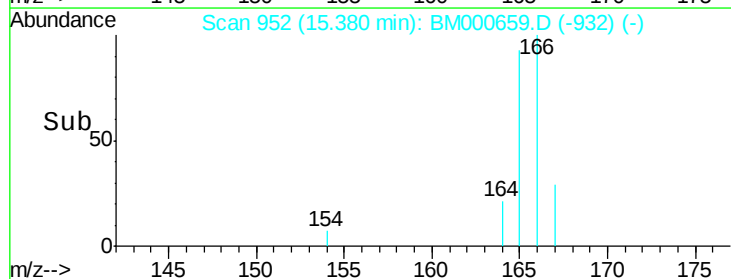
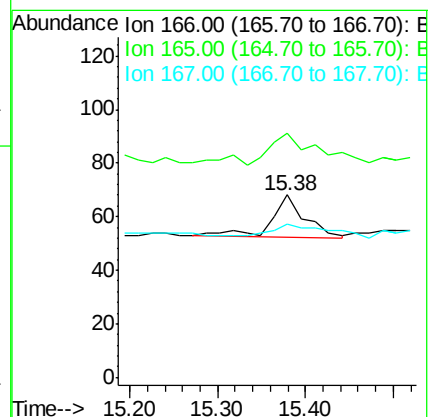
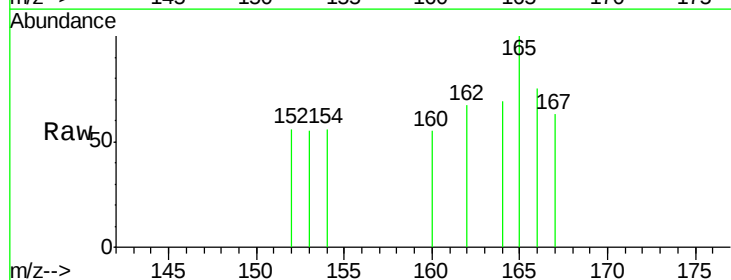
Tgt Ion:166 Resp: 42

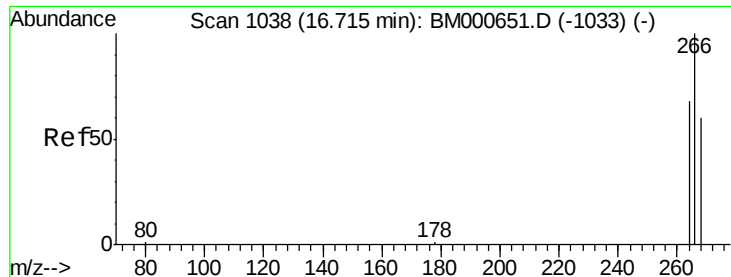
Ion Ratio Lower Upper

166 100

165 133.8 78.5 117.7#

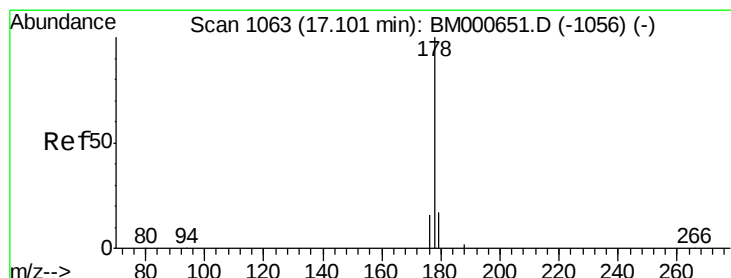
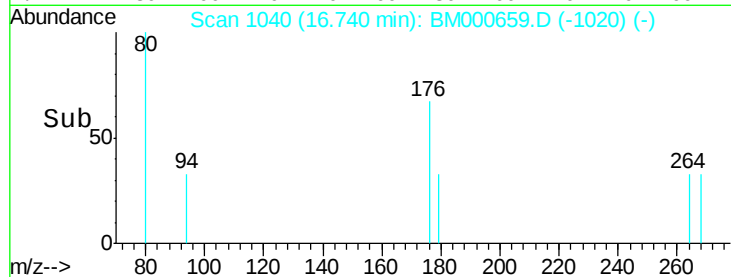
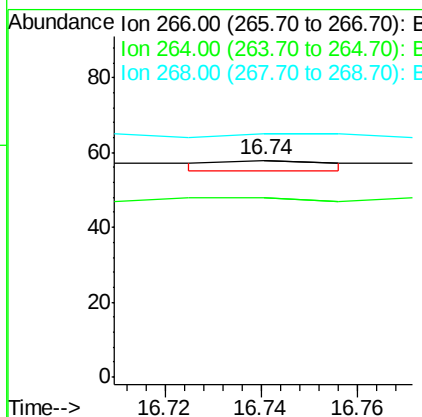
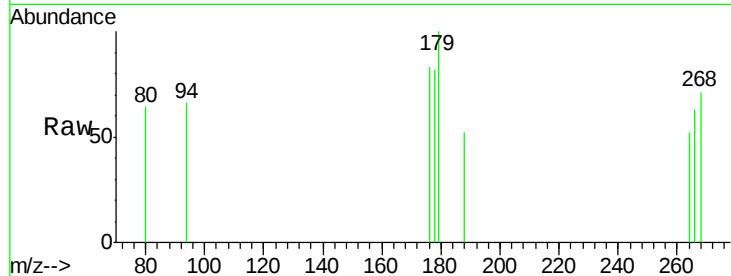
167 83.8 10.6 16.0#





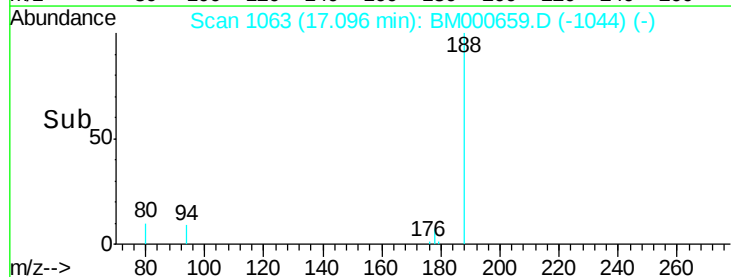
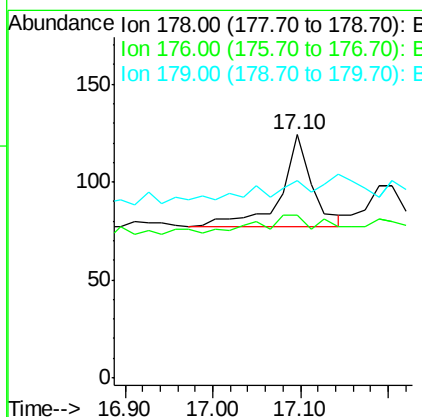
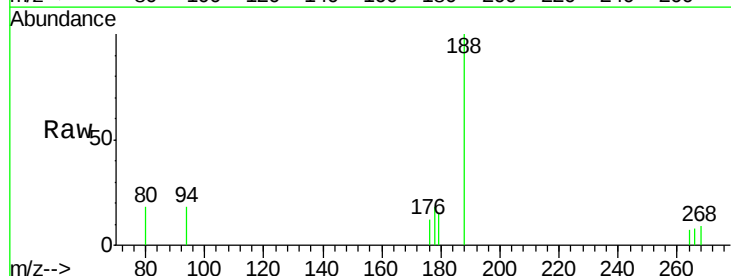
#13  
 Pentachlorophenol  
 Concen: 0.00 ng/ul  
 RT: 16.74 min Scan# 1040  
 Delta R.T. 0.02 min  
 Lab File: BM000659.D  
 Acq: 04 Mar 2015 23:08

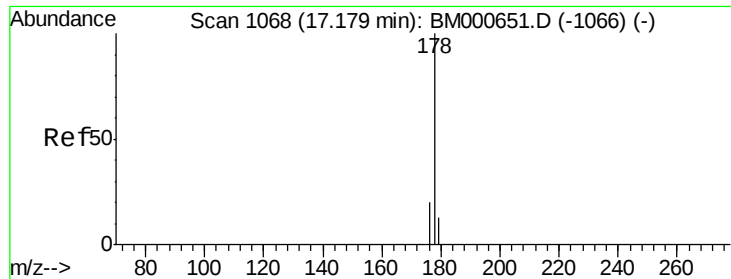
Tgt Ion: 266 Resp: 5  
 Ion Ratio Lower Upper  
 266 100  
 264 40.0 51.0 76.4#  
 268 0.0 49.4 74.2#



#14  
 Phenanthrene  
 Concen: 0.00 ng/ul  
 RT: 17.10 min Scan# 1063  
 Delta R.T. 0.00 min  
 Lab File: BM000659.D  
 Acq: 04 Mar 2015 23:08

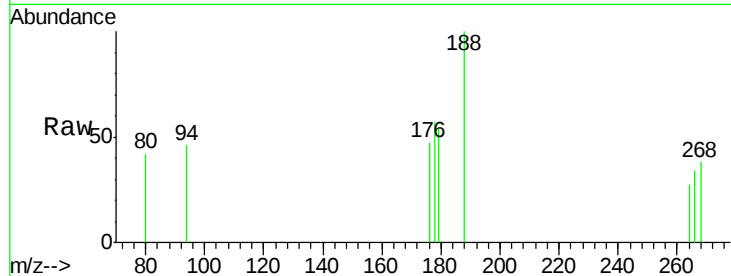
Tgt Ion: 178 Resp: 118  
 Ion Ratio Lower Upper  
 178 100  
 176 66.9 14.8 22.2#  
 179 81.5 12.7 19.1#



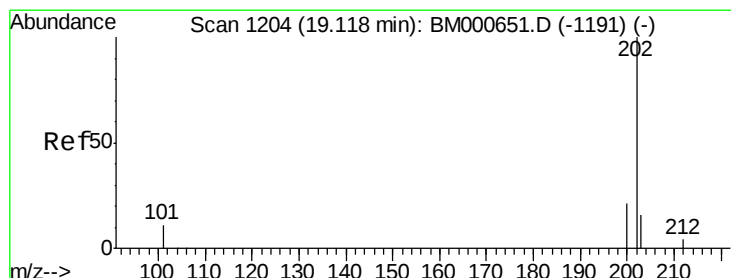
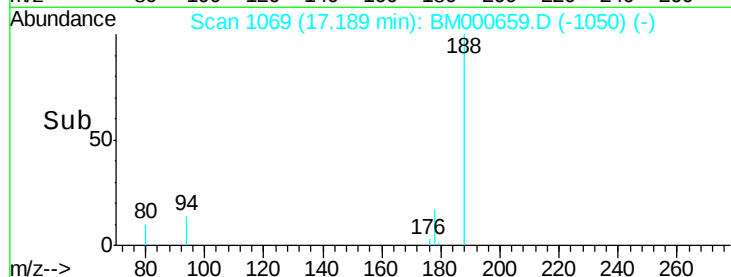
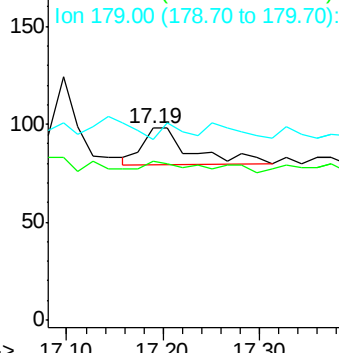


#15  
 Anthracene  
 Concen: 0.00 ng/ul  
 RT: 17.19 min Scan# 1069  
 Delta R.T. 0.00 min  
 Lab File: BM000659.D  
 Acq: 04 Mar 2015 23:08

Tgt Ion:178 Resp: 67  
 Ion Ratio Lower Upper  
 178 100  
 176 82.7 14.2 21.4#  
 179 93.9 12.8 19.2#

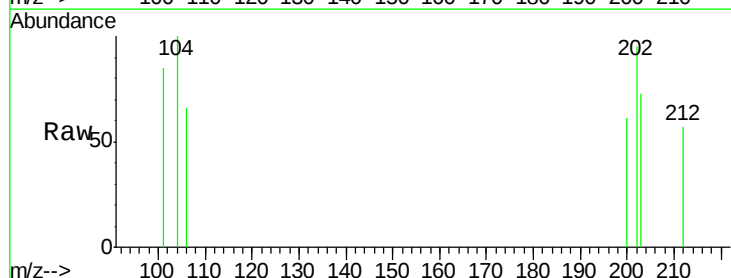


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

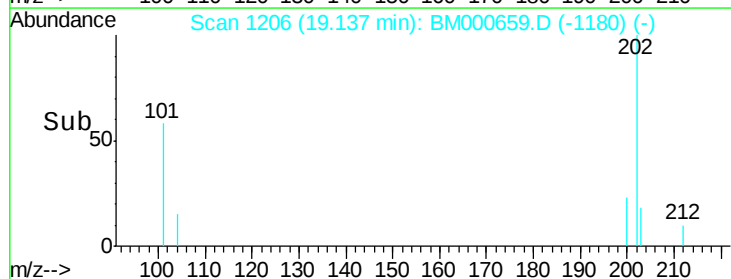
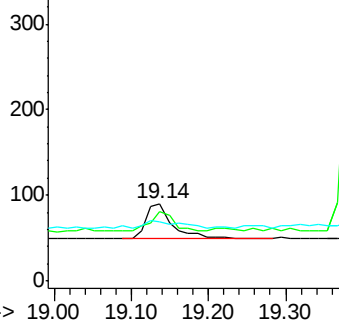


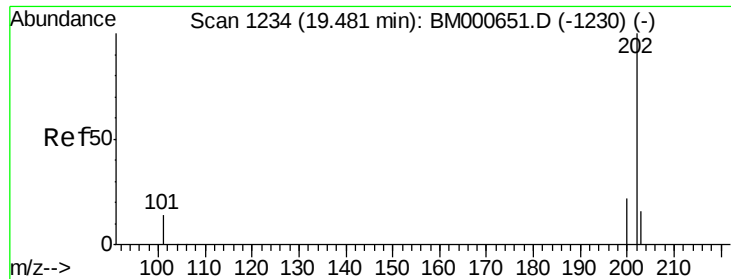
#17  
 Fluoranthene  
 Concen: 0.00 ng/ul  
 RT: 19.14 min Scan# 1206  
 Delta R.T. 0.01 min  
 Lab File: BM000659.D  
 Acq: 04 Mar 2015 23:08

Tgt Ion:202 Resp: 101  
 Ion Ratio Lower Upper  
 202 100  
 101 90.0 0.0 27.0#  
 203 76.7 0.0 38.5#



Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 203.00 (202.70 to 203.70): E





#19

Pyrene

Concen: 0.00 ng/ul

RT: 19.49 min Scan# 1235

Delta R.T. 0.00 min

Lab File: BM000659.D

Acq: 04 Mar 2015 23:08

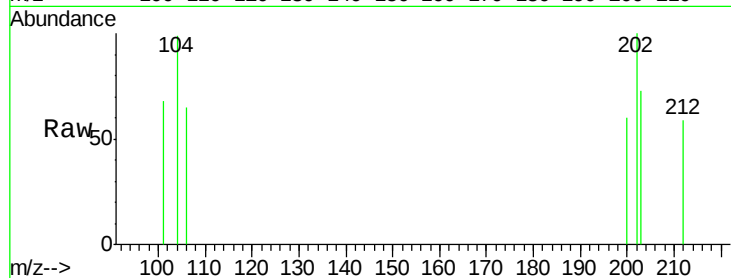
Tgt Ion: 202 Resp: 99

Ion Ratio Lower Upper

202 100

200 60.4 15.5 23.3#

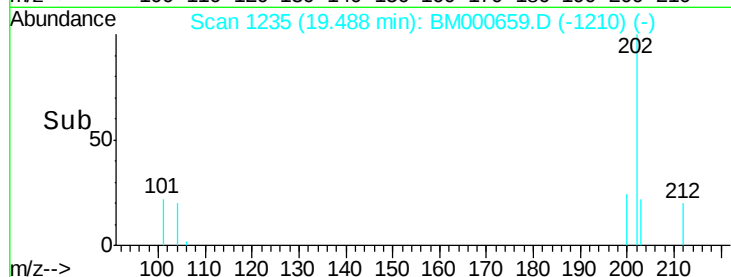
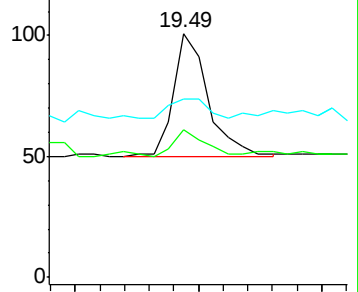
203 73.3 14.2 21.2#



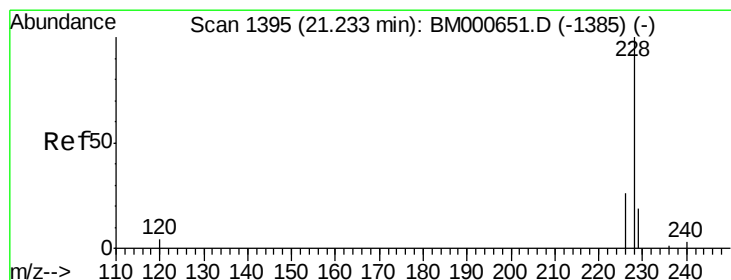
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->



#20

Benzo(a)anthracene

Concen: 0.00 ng/ul

RT: 21.24 min Scan# 1396

Delta R.T. 0.00 min

Lab File: BM000659.D

Acq: 04 Mar 2015 23:08

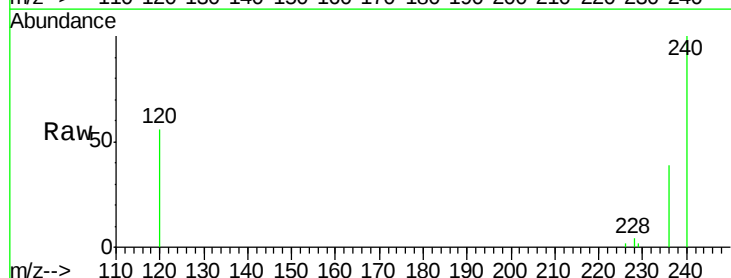
Tgt Ion: 228 Resp: 101

Ion Ratio Lower Upper

228 100

226 64.0 20.0 30.0#

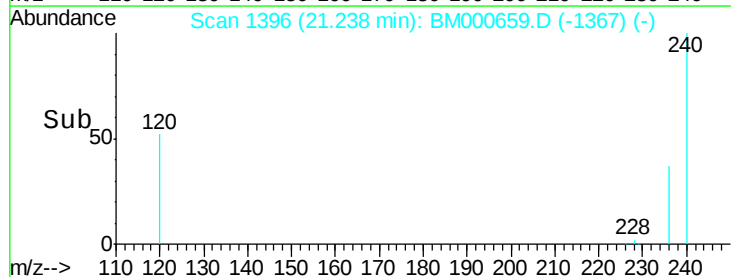
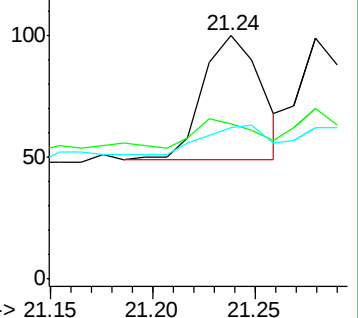
229 62.0 16.7 25.1#



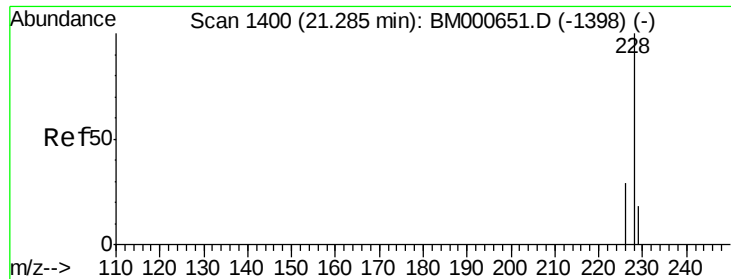
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



Time-->



#21

Chrysene

Concen: 0.00 ng/u1

RT: 21.28 min Scan# 1400

Delta R.T. -0.01 min

Lab File: BM000659.D

Acq: 04 Mar 2015 23:08

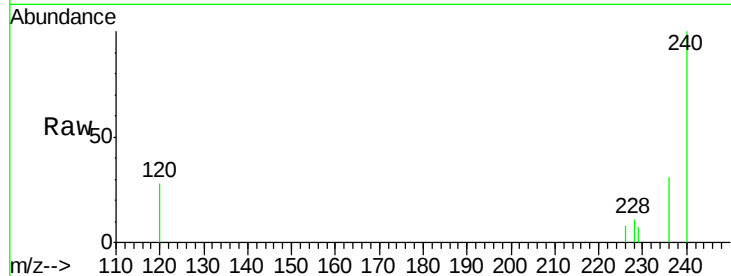
Tgt Ion:228 Resp: 99

Ion Ratio Lower Upper

228 100

226 70.7 22.6 33.8#

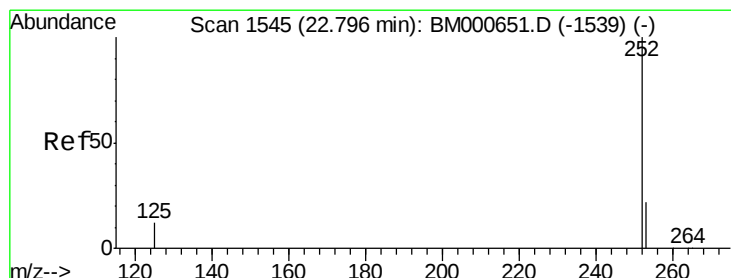
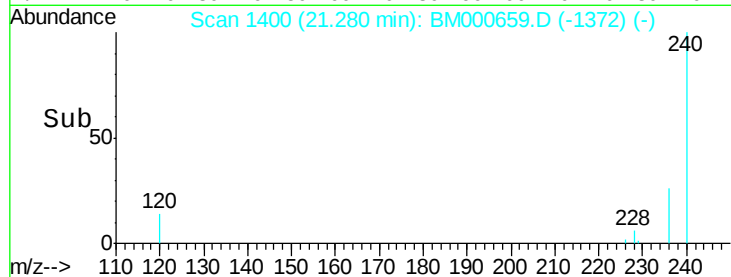
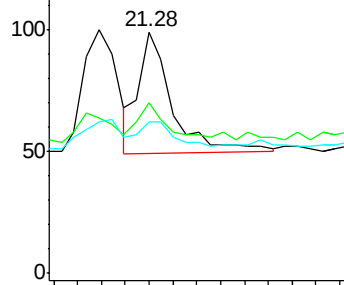
229 62.6 16.4 24.6#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#23

Benzo(b)fluoranthene

Concen: 0.02 ng/u1

RT: 22.67 min Scan# 1533

Delta R.T. -0.13 min

Lab File: BM000659.D

Acq: 04 Mar 2015 23:08

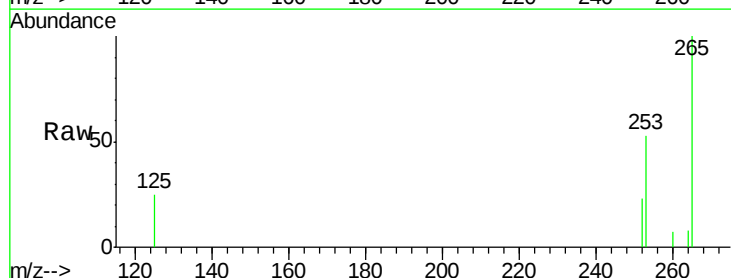
Tgt Ion:252 Resp: 909

Ion Ratio Lower Upper

252 100

253 232.5 0.0 51.2#

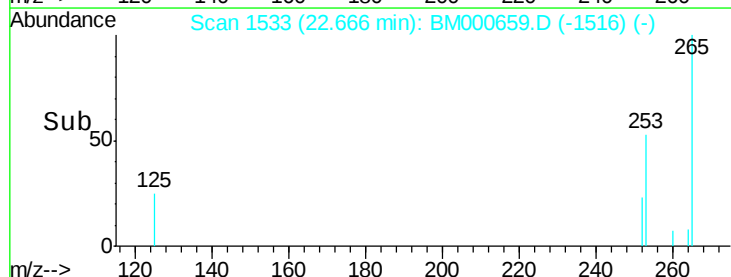
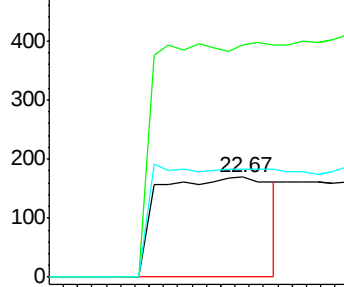
125 108.9 0.0 30.0#

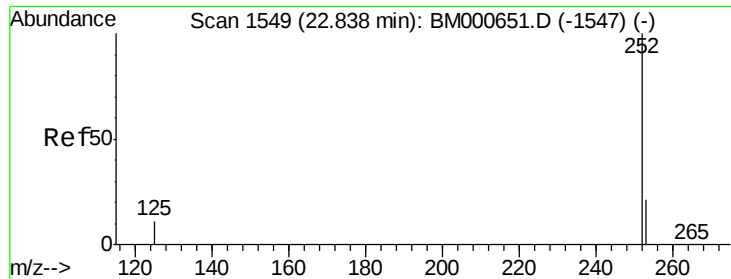


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

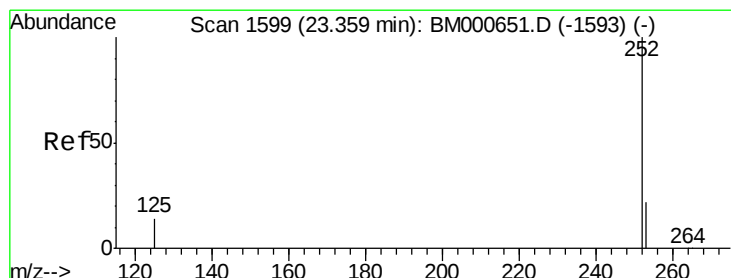
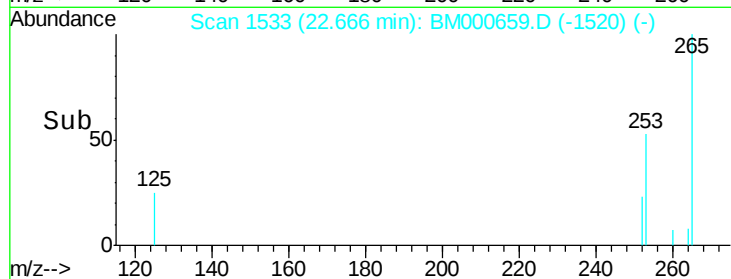
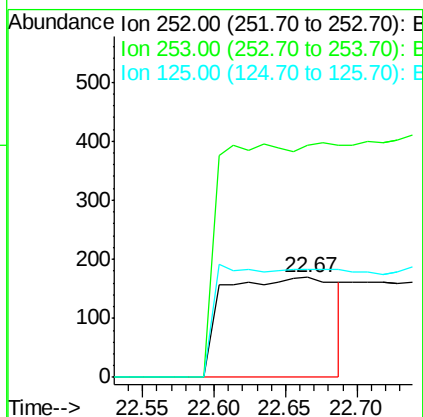
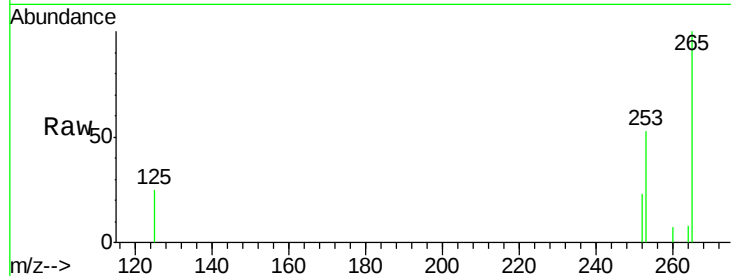
Ion 125.00 (124.70 to 125.70): E





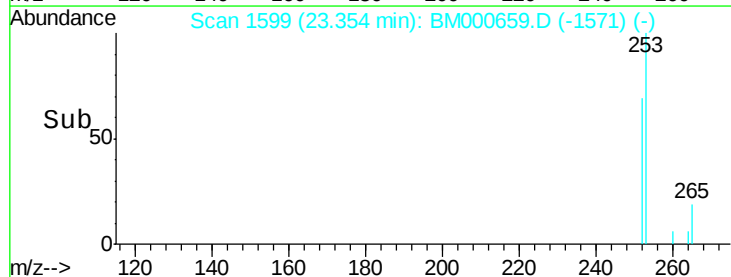
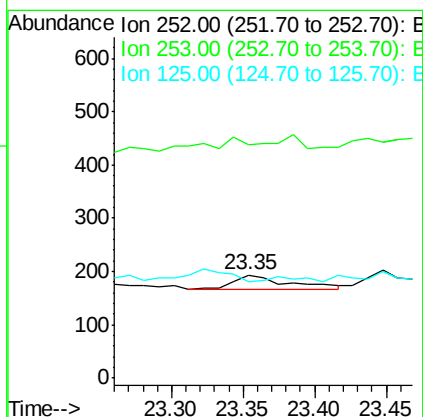
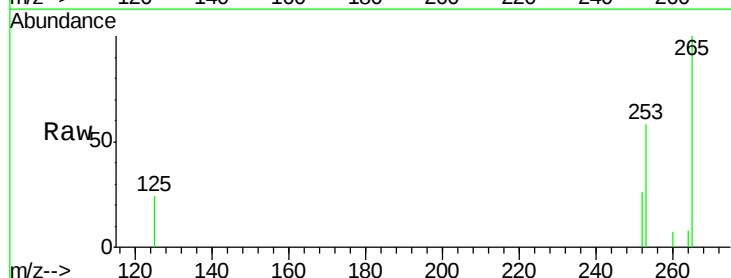
#24  
Benzo(k)fluoranthene  
Concen: 0.02 ng/u1  
RT: 22.67 min Scan# 1533  
Delta R.T. -0.17 min  
Lab File: BM000659.D  
Acq: 04 Mar 2015 23:08

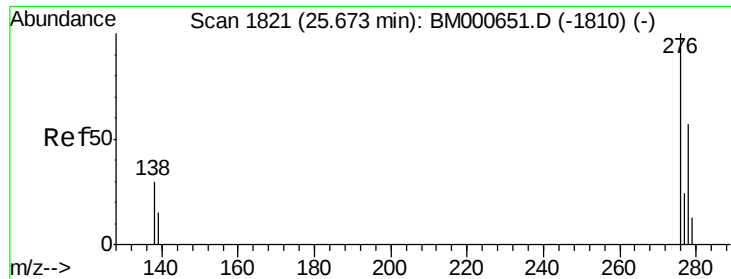
Tgt Ion: 252 Resp: 909  
Ion Ratio Lower Upper  
252 100  
253 232.5 20.5 30.7#  
125 108.9 11.8 17.6#



#25  
Benzo(a)pyrene  
Concen: 0.00 ng/u1  
RT: 23.35 min Scan# 1599  
Delta R.T. -0.01 min  
Lab File: BM000659.D  
Acq: 04 Mar 2015 23:08

Tgt Ion: 252 Resp: 70  
Ion Ratio Lower Upper  
252 100  
253 226.9 23.4 35.0#  
125 93.3 12.2 18.4#

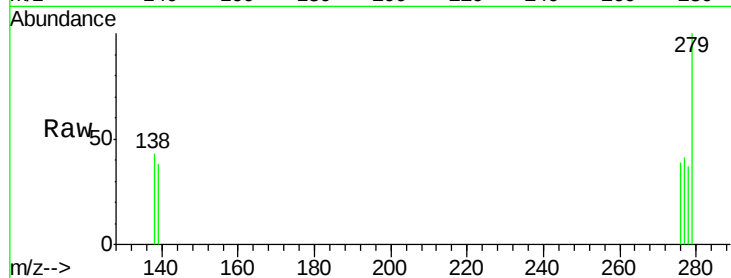




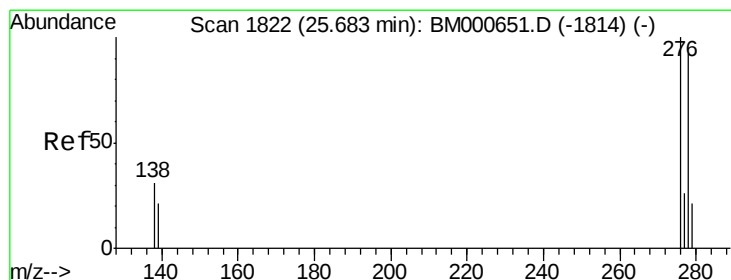
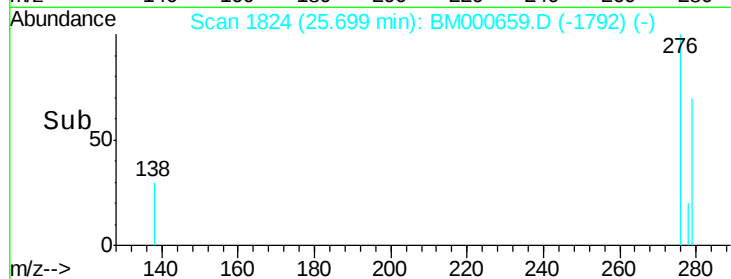
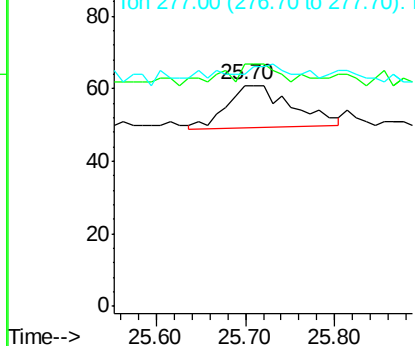
#26

Indeno(1,2,3-cd)pyrene  
Concen: 0.00 ng/ul  
RT: 25.70 min Scan# 1824  
Delta R.T. 0.03 min  
Lab File: BM000659.D  
Acq: 04 Mar 2015 23:08

Tgt Ion: 276 Resp: 58  
Ion Ratio Lower Upper  
276 100  
138 41.4 23.8 35.8#  
277 0.0 19.7 29.5#



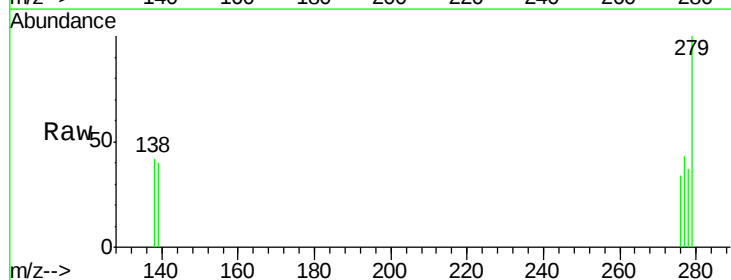
Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E



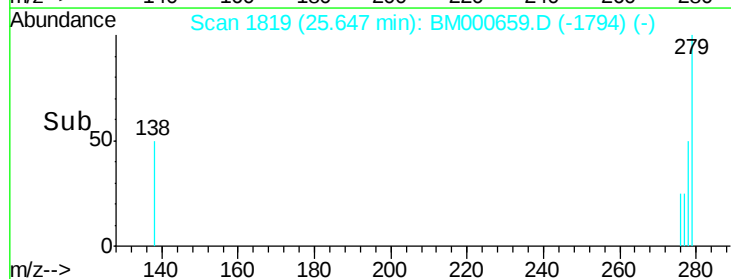
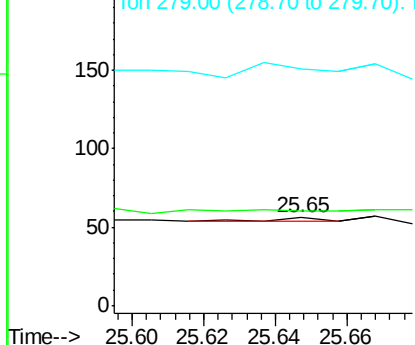
#27

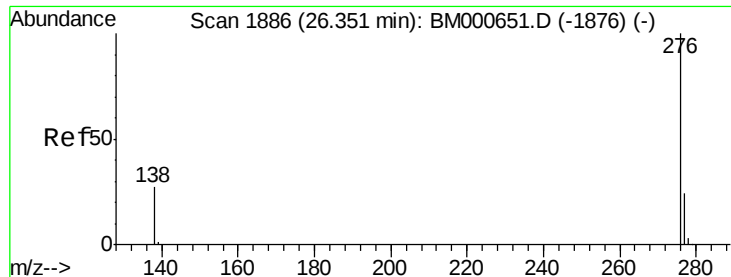
Dibenzo(a,h)anthracene  
Concen: 0.00 ng/ul  
RT: 25.65 min Scan# 1819  
Delta R.T. -0.04 min  
Lab File: BM000659.D  
Acq: 04 Mar 2015 23:08

Tgt Ion: 278 Resp: 2  
Ion Ratio Lower Upper  
278 100  
139 107.1 17.0 25.6#  
279 269.6 22.3 33.5#



Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E





#28

Benzo(g,h,i)perylene

Concen: 0.00 ng/ul

RT: 26.37 min Scan# 1888

Delta R.T. 0.01 min

Lab File: BM000659.D

Acq: 04 Mar 2015 23:08

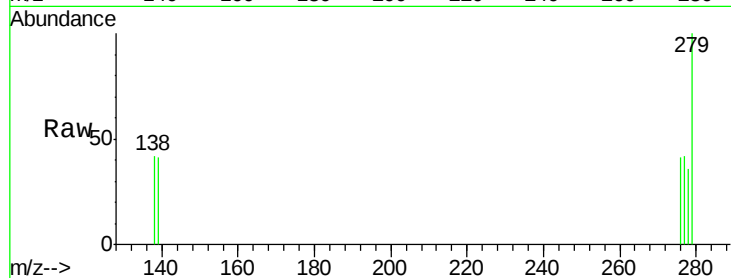
Tgt Ion: 276 Resp: 73

Ion Ratio Lower Upper

276 100

277 103.2 19.9 29.9#

138 101.6 20.6 30.8#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

