

Data Path : Z:\HPCHEM1\BNA M\DATA\BM091115\  
 Data File : BM002685.D  
 Acq On : 11 Sep 2015 17:24  
 Operator : UM/IZ  
 Sample : MDL-04-W  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 12 01:35:45 2015

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM90315.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Sat Sep 12 01:33:03 2015

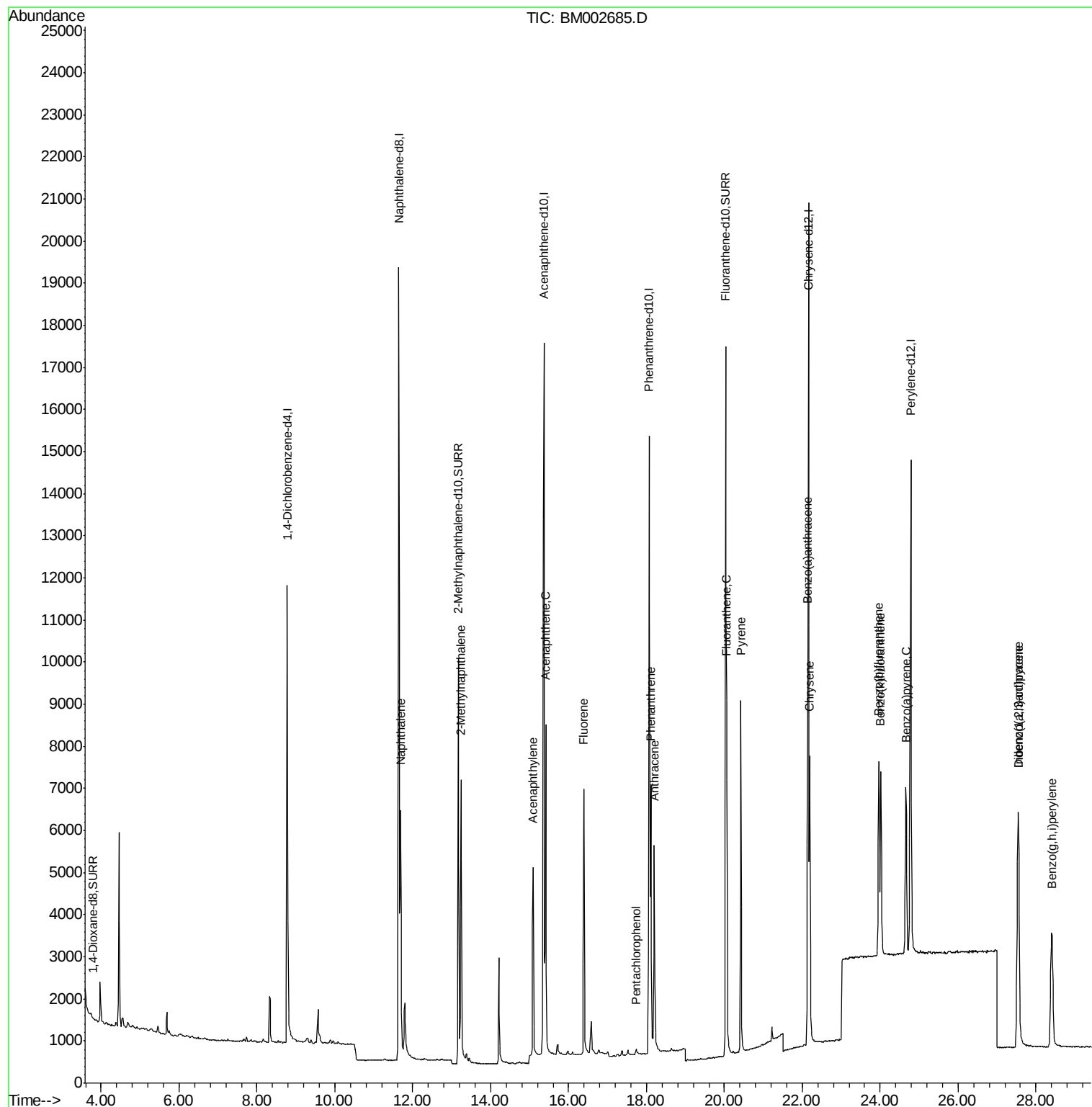
Response via : Initial Calibration

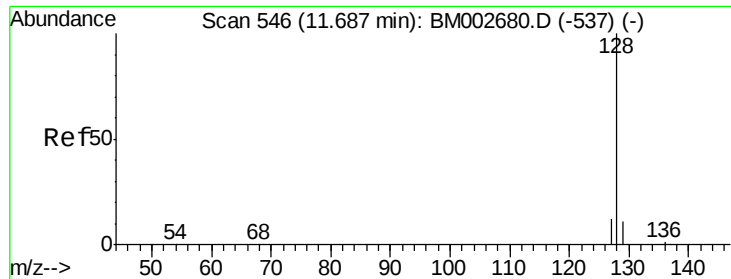
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.78  | 152  | 7853     | 0.40   | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 11.64 | 136  | 30014    | 0.40   | ng/ul  | 0.00     |
| 8) Acenaphthene-d10         | 15.36 | 164  | 12716    | 0.40   | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 18.06 | 188  | 23473    | 0.40   | ng/ul  | 0.00     |
| 18) Chrysene-d12            | 22.16 | 240  | 21114    | 0.40   | ng/ul  | 0.00     |
| 22) Perylene-d12            | 24.78 | 264  | 20563    | 0.40   | ng/ul  | 0.01     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 2) 1,4-Dioxane-d8           | 3.79  | 96   | 16       | 0.00   | ng/uL  | -0.03    |
| 6) 2-Methylnaphthalene-d10  | 13.17 | 152  | 14348    | 0.36   | ng/ul  | 0.00     |
| 16) Fluoranthene-d10        | 20.03 | 212  | 20525    | 0.38   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 5) Naphthalene              | 11.69 | 128  | 8419     | 0.11   | ng/ul  | 100      |
| 7) 2-Methylnaphthalene      | 13.23 | 142  | 5582     | 0.11   | ng/ul  | 97       |
| 9) Acenaphthylene           | 15.09 | 152  | 6437     | 0.09   | ng/ul  | 96       |
| 10) Acenaphthene            | 15.42 | 153  | 4884     | 0.10   | ng/ul  | 92       |
| 11) Fluorene                | 16.39 | 166  | 4870     | 0.10   | ng/ul  | 88       |
| 13) Pentachlorophenol       | 17.74 | 266  | 290      | 0.13   | ng/ul  | 84       |
| 14) Phenanthrene            | 18.11 | 178  | 7137     | 0.10   | ng/ul  | 98       |
| 15) Anthracene              | 18.20 | 178  | 6955     | 0.10   | ng/ul  | 97       |
| 17) Fluoranthene            | 20.06 | 202  | 7937     | 0.11   | ng/ul  | 95       |
| 19) Pyrene                  | 20.42 | 202  | 8299     | 0.10   | ng/ul  | 96       |
| 20) Benzo(a)anthracene      | 22.14 | 228  | 7159     | 0.10   | ng/ul  | 96       |
| 21) Chrysene                | 22.19 | 228  | 7268     | 0.11   | ng/ul  | 98       |
| 23) Benzo(b)fluoranthene    | 23.96 | 252  | 7688     | 0.11   | ng/ul  | 84       |
| 24) Benzo(k)fluoranthene    | 24.01 | 252  | 7263     | 0.11   | ng/ul# | 83       |
| 25) Benzo(a)pyrene          | 24.66 | 252  | 6870     | 0.10   | ng/ul# | 83       |
| 26) Indeno(1,2,3-cd)pyrene  | 27.55 | 276  | 7994     | 0.10   | ng/ul  | 98       |
| 27) Dibenzo(a,h)anthracene  | 27.55 | 278  | 6070     | 0.09   | ng/ul  | 93       |
| 28) Benzo(a,h,i)perylene    | 28.40 | 276  | 7126     | 0.10   | ng/ul  | 94       |

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

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ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 12 01:35:45 2015  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM90315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Sep 12 01:33:03 2015  
Response via : Initial Calibration





#5

Naphthalene

Concen: 0.11 ng/ul

RT: 11.69 min Scan# 546

Delta R.T. -0.00 min

Lab File: BM002685.D

Acq: 11 Sep 2015 17:24

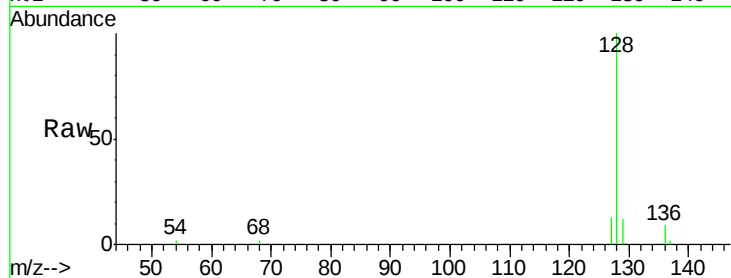
Tot Ion:128 Resp: 8419

Ion Ratio Lower Upper

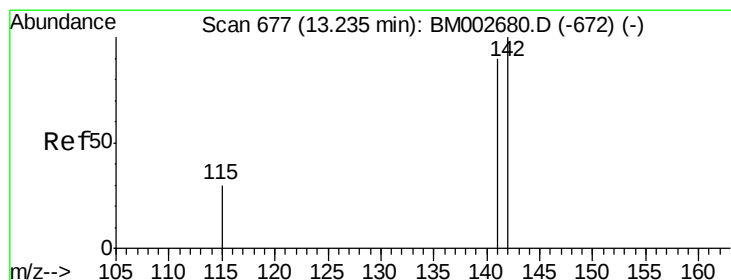
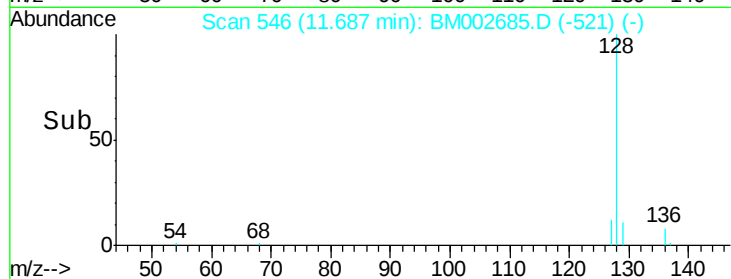
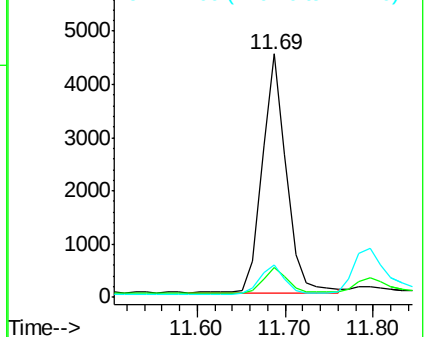
128 100

129 12.3 9.8 14.8

127 13.4 10.7 16.1



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



#7

2-Methylnaphthalene

Concen: 0.11 ng/ul

RT: 13.23 min Scan# 677

Delta R.T. -0.00 min

Lab File: BM002685.D

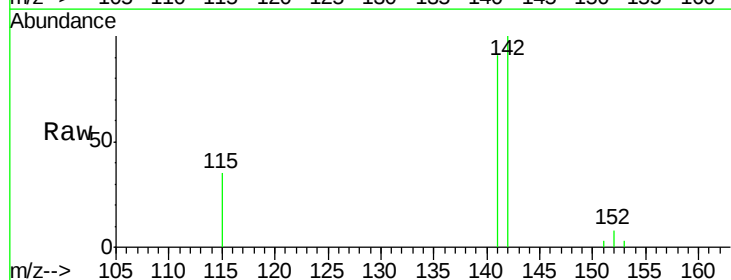
Acq: 11 Sep 2015 17:24

Tgt Ion:142 Resp: 5582

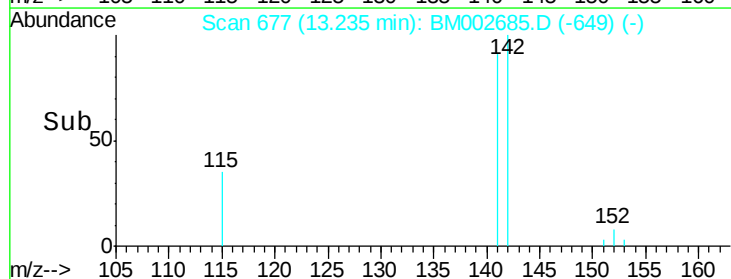
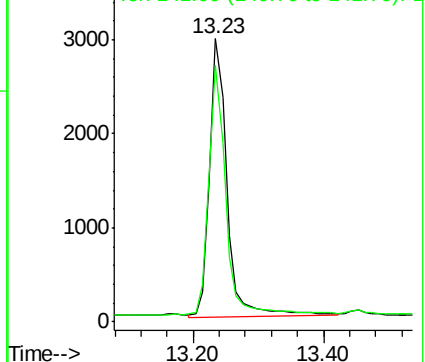
Ion Ratio Lower Upper

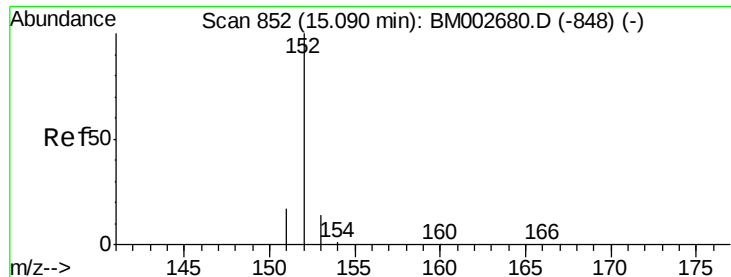
142 100

141 90.9 70.3 105.5



Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E





#9

Acenaphthylene

Concen: 0.09 ng/ul

RT: 15.09 min Scan# 852

Delta R.T. -0.00 min

Lab File: BM002685.D

Acq: 11 Sep 2015 17:24

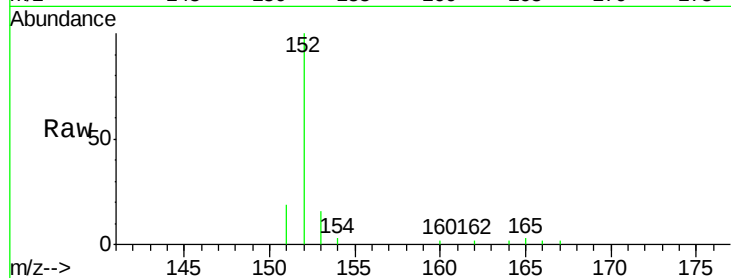
Tot Ion:152 Resp: 6437

Ion Ratio Lower Upper

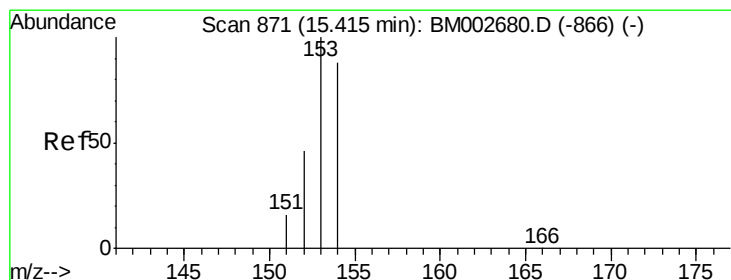
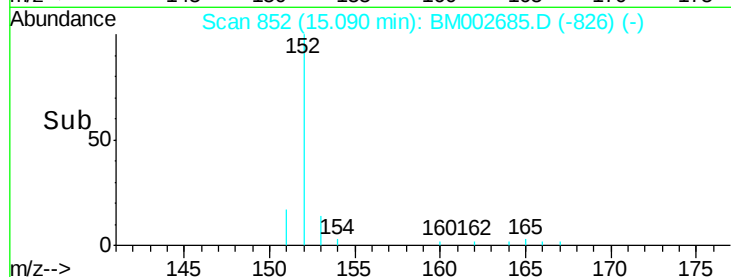
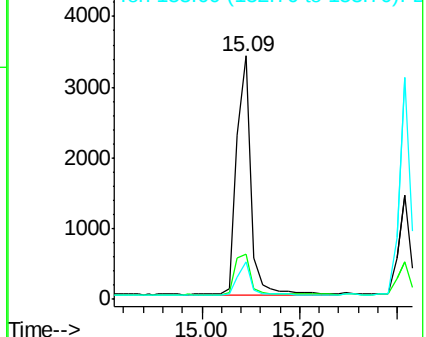
152 100

151 18.6 16.8 25.2

153 15.6 11.3 16.9



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: 0.10 ng/ul

RT: 15.42 min Scan# 871

Delta R.T. -0.00 min

Lab File: BM002685.D

Acq: 11 Sep 2015 17:24

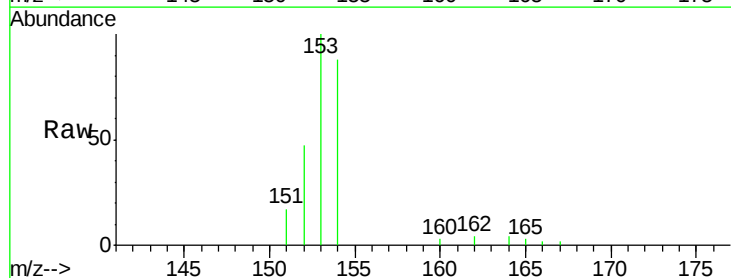
Tgt Ion:153 Resp: 4884

Ion Ratio Lower Upper

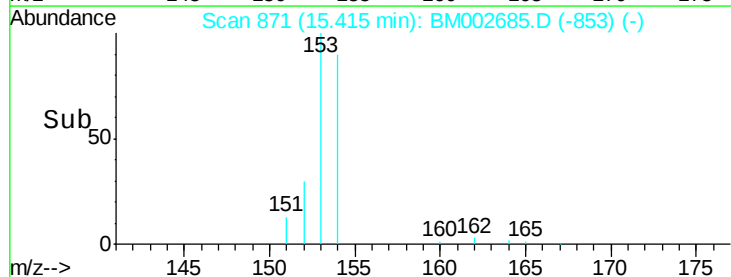
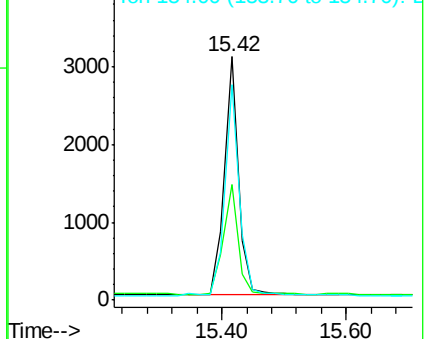
153 100

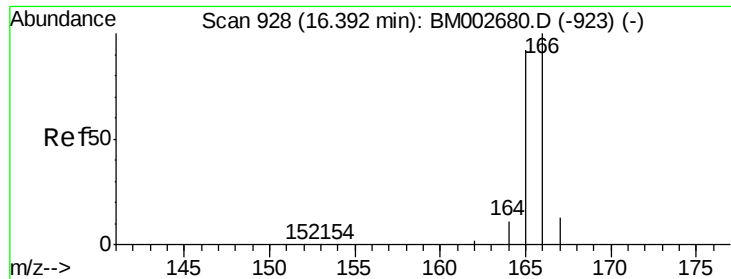
152 47.3 42.3 63.5

154 88.5 64.7 97.1



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





#11

Fluorene

Concen: 0.10 ng/ul

RT: 16.39 min Scan# 928

Delta R.T. -0.00 min

Lab File: BM002685.D

Acq: 11 Sep 2015 17:24

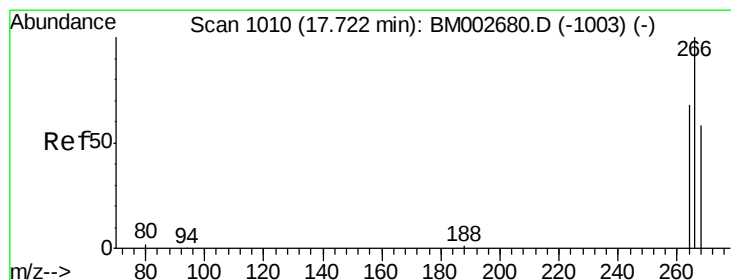
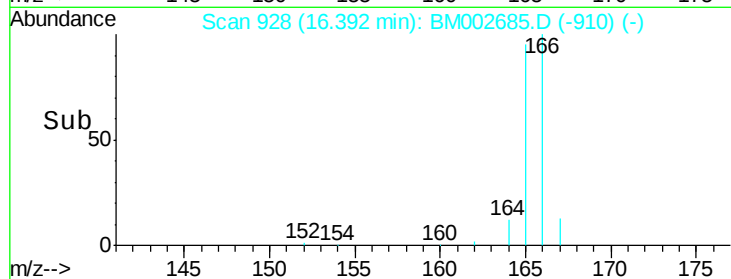
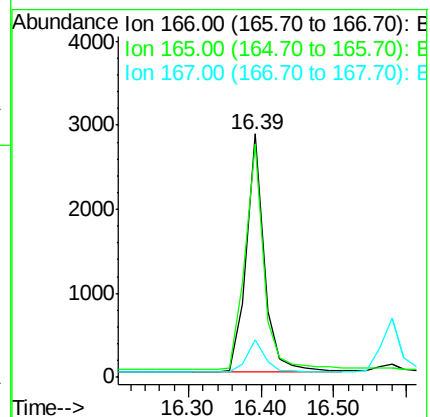
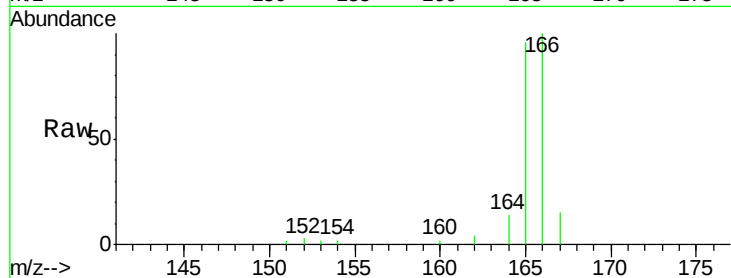
Tot Ion:166 Resp: 4870

Ion Ratio Lower Upper

166 100

165 95.9 87.6 131.4

167 15.3 11.1 16.7



#13

Pentachlorophenol

Concen: 0.13 ng/ul

RT: 17.74 min Scan# 1011

Delta R.T. 0.02 min

Lab File: BM002685.D

Acq: 11 Sep 2015 17:24

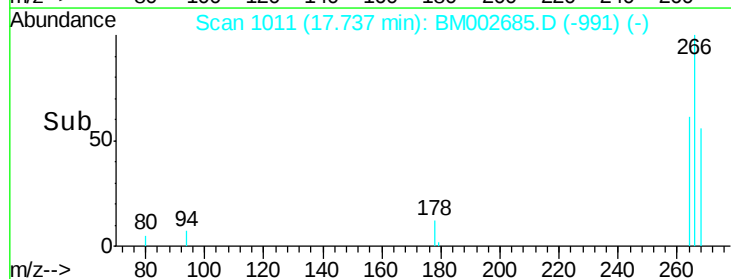
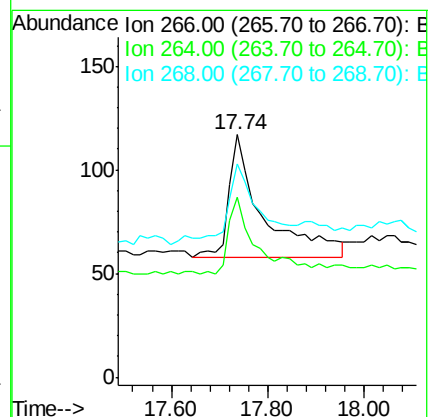
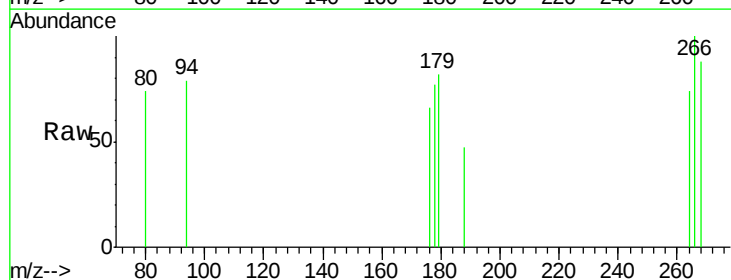
Tgt Ion:266 Resp: 290

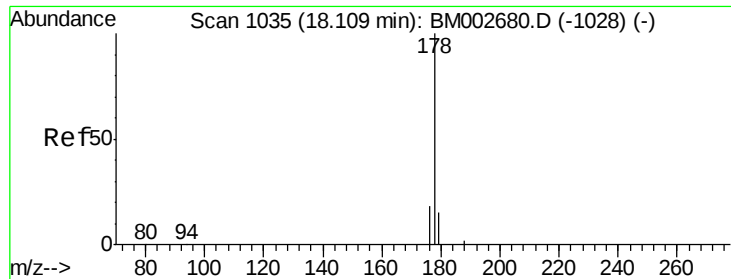
Ion Ratio Lower Upper

266 100

264 54.1 53.5 80.3

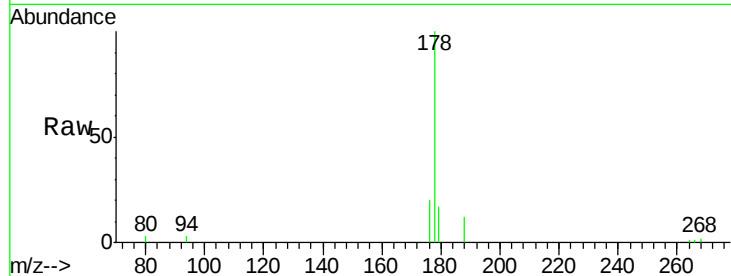
268 80.3 54.2 81.2



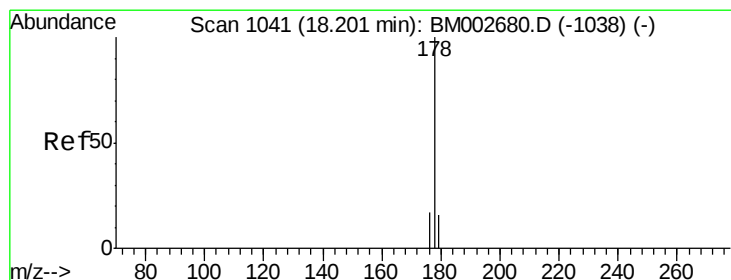
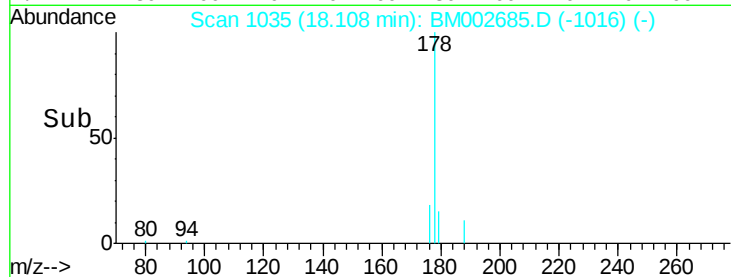
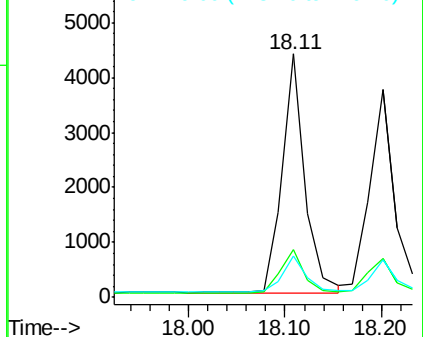


#14  
Phenanthrene  
Concen: 0.10 ng/ul  
RT: 18.11 min Scan# 1035  
Delta R.T. -0.00 min  
Lab File: BM002685.D  
Acq: 11 Sep 2015 17:24

Tot Ion:178 Resp: 7137  
Ion Ratio Lower Upper  
178 100  
176 19.9 16.2 24.4  
179 17.1 12.8 19.2

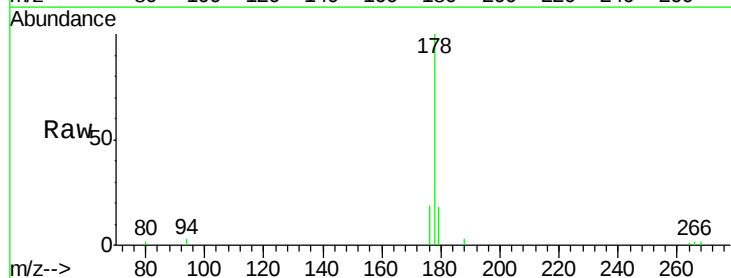


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

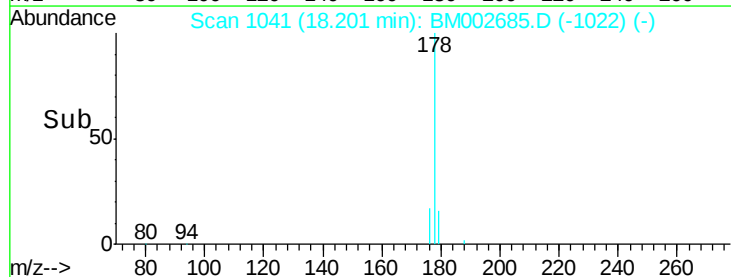
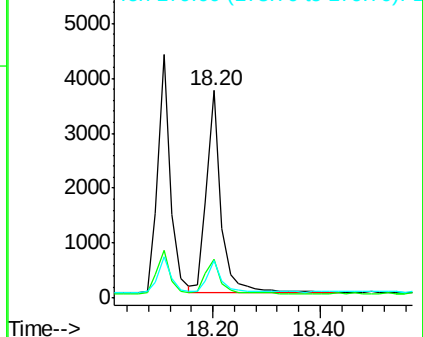


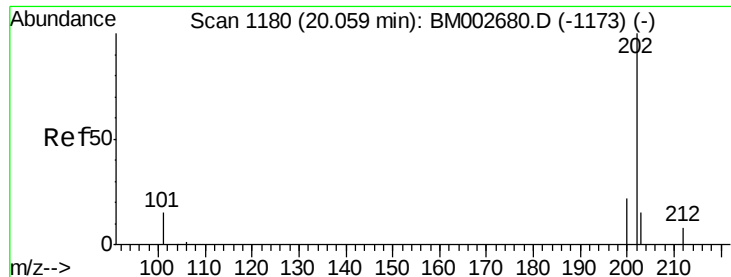
#15  
Anthracene  
Concen: 0.10 ng/ul  
RT: 18.20 min Scan# 1041  
Delta R.T. -0.00 min  
Lab File: BM002685.D  
Acq: 11 Sep 2015 17:24

Tgt Ion:178 Resp: 6955  
Ion Ratio Lower Upper  
178 100  
176 18.6 15.8 23.8  
179 18.0 13.3 19.9



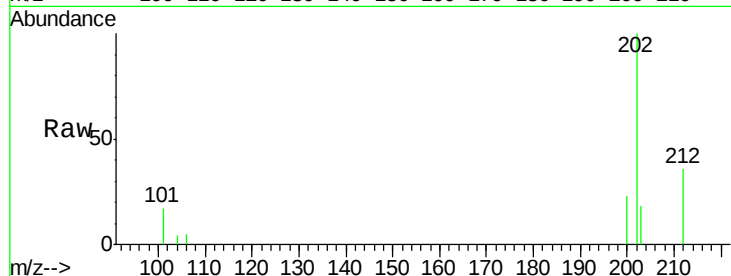
Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E



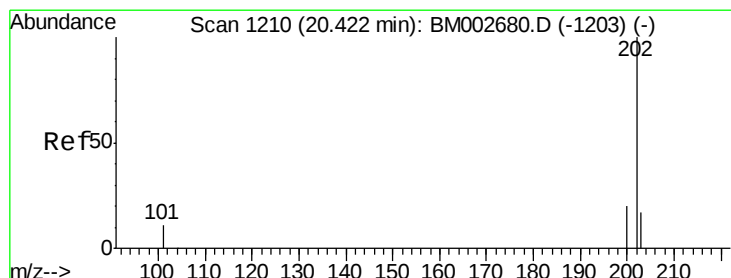
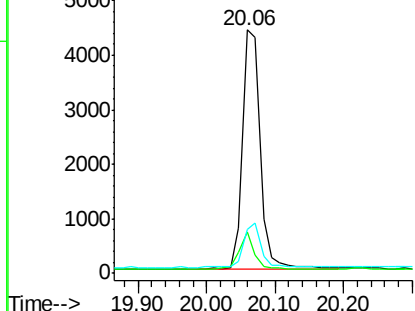
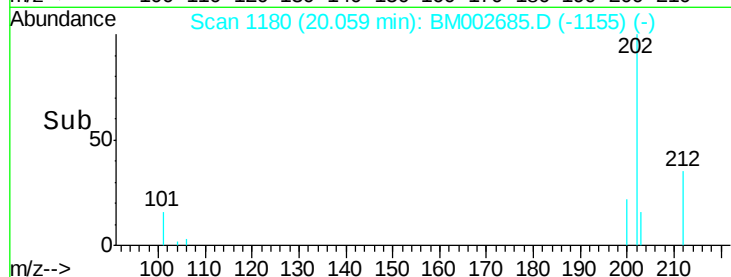


#17  
**Fluoranthene**  
 Concen: 0.11 ng/ul  
 RT: 20.06 min Scan# 1180  
 Delta R.T. -0.00 min  
 Lab File: BM002685.D  
 Acq: 11 Sep 2015 17:24

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 16.9  | 0.0   | 33.1  |
| 203     | 17.8  | 0.0   | 37.2  |

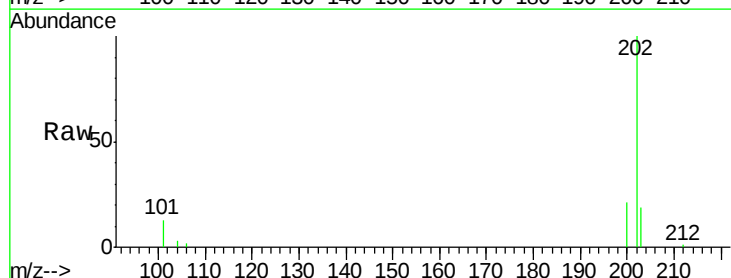


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 203.00 (202.70 to 203.70): E

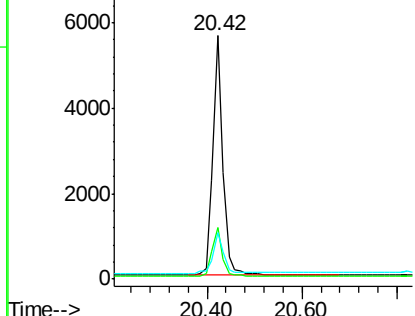
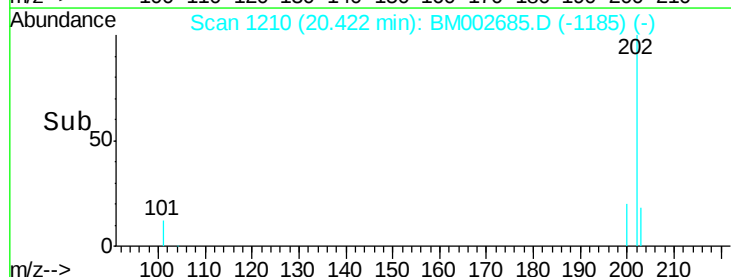


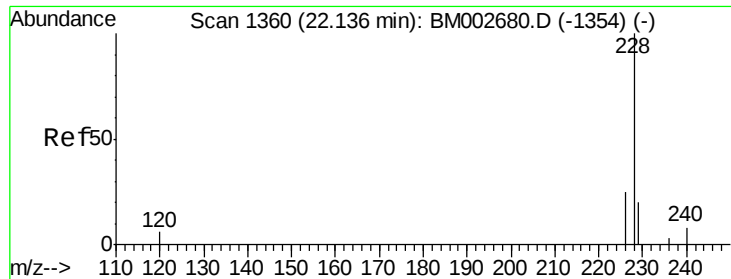
#19  
**Pyrene**  
 Concen: 0.10 ng/ul  
 RT: 20.42 min Scan# 1210  
 Delta R.T. -0.00 min  
 Lab File: BM002685.D  
 Acq: 11 Sep 2015 17:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.2  | 18.0  | 27.0  |
| 203     | 19.3  | 13.8  | 20.6  |



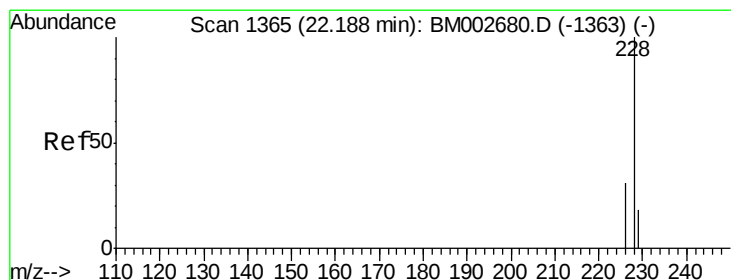
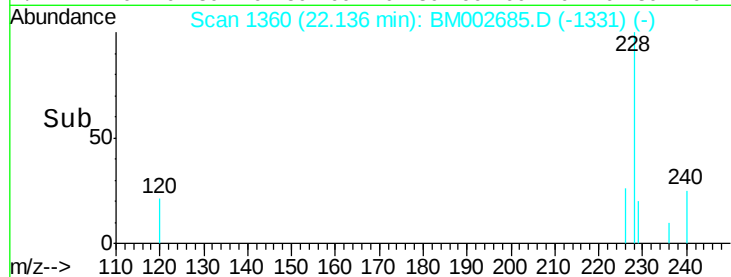
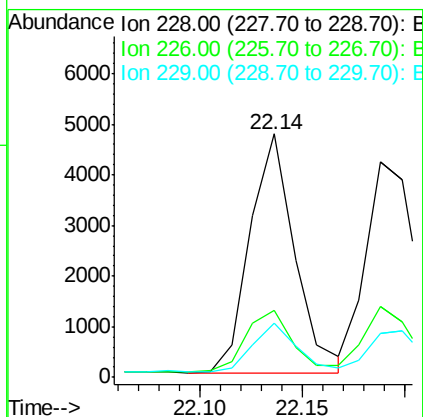
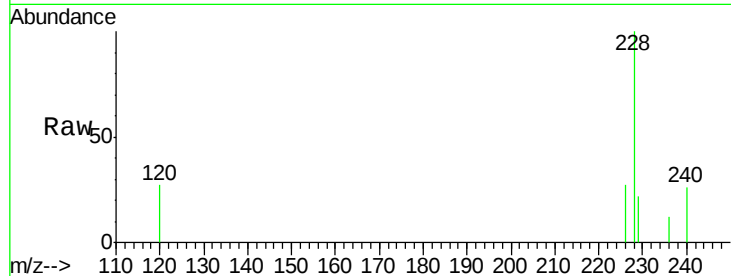
Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 200.00 (199.70 to 200.70): E  
 Ion 203.00 (202.70 to 203.70): E





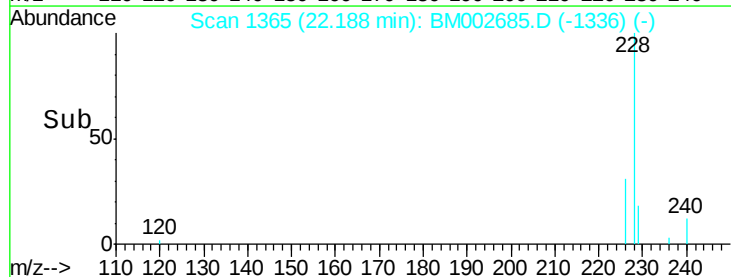
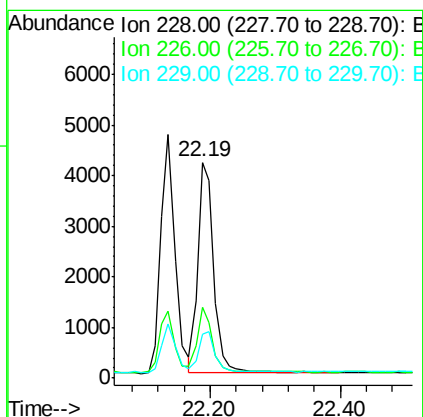
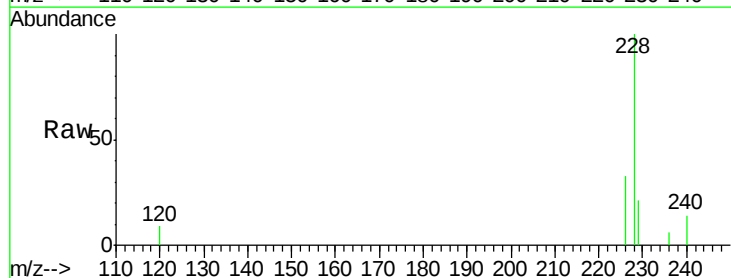
#20  
Benzo(a)anthracene  
Concen: 0.10 ng/ul  
RT: 22.14 min Scan# 1360  
Delta R.T. -0.00 min  
Lab File: BM002685.D  
Acq: 11 Sep 2015 17:24

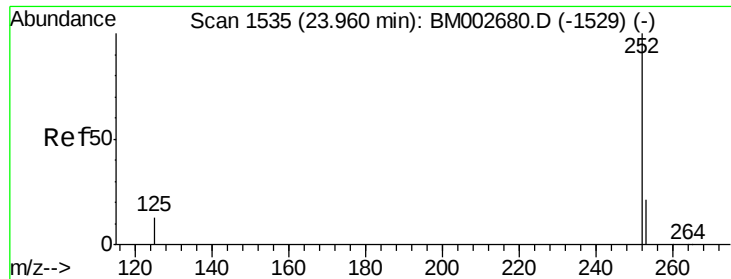
Tot Ion:228 Resp: 7159  
Ion Ratio Lower Upper  
228 100  
226 27.3 23.0 34.4  
229 22.1 15.2 22.8



#21  
Chrysene  
Concen: 0.11 ng/ul  
RT: 22.19 min Scan# 1365  
Delta R.T. -0.00 min  
Lab File: BM002685.D  
Acq: 11 Sep 2015 17:24

Tgt Ion:228 Resp: 7268  
Ion Ratio Lower Upper  
228 100  
226 33.0 25.7 38.5  
229 20.6 15.2 22.8





#23

Benzo(b)fluoranthene

Concen: 0.11 ng/ul

RT: 23.96 min Scan# 1535

Delta R.T. -0.00 min

Lab File: BM002685.D

Acq: 11 Sep 2015 17:24

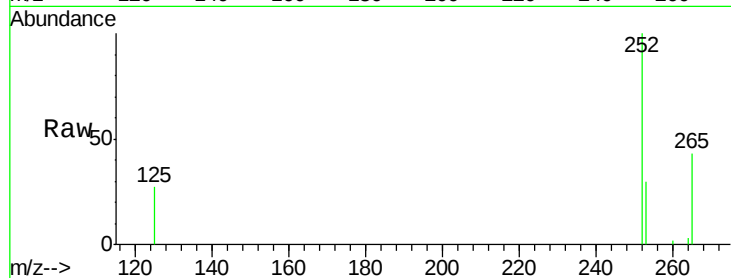
Tot Ion:252 Resp: 7688

Ion Ratio Lower Upper

252 100

253 30.2 0.0 48.0

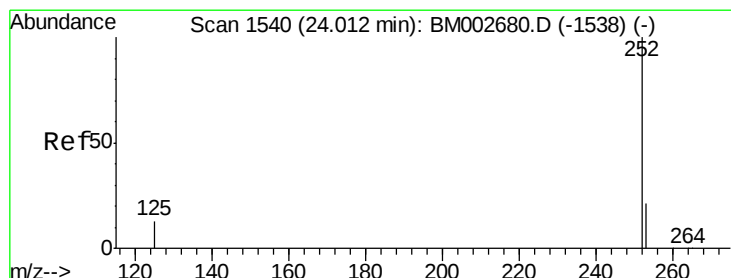
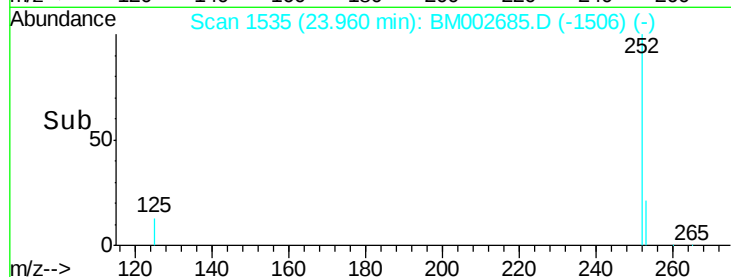
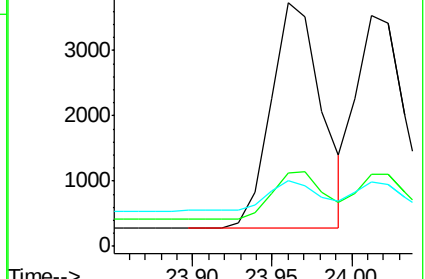
125 26.9 0.0 36.6



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: 0.11 ng/ul

RT: 24.01 min Scan# 1540

Delta R.T. -0.00 min

Lab File: BM002685.D

Acq: 11 Sep 2015 17:24

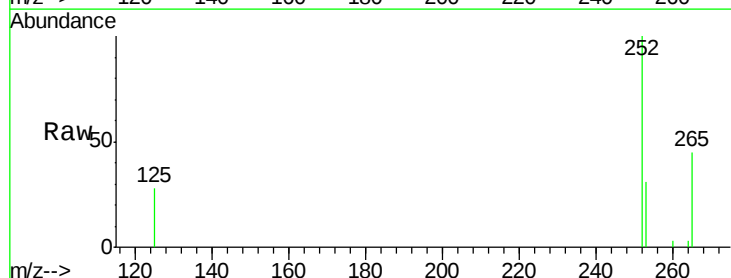
Tgt Ion:252 Resp: 7263

Ion Ratio Lower Upper

252 100

253 31.0 20.8 31.2

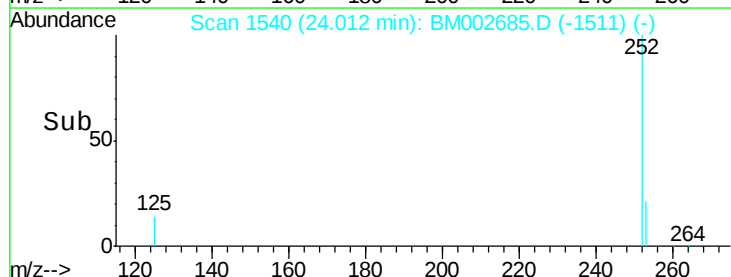
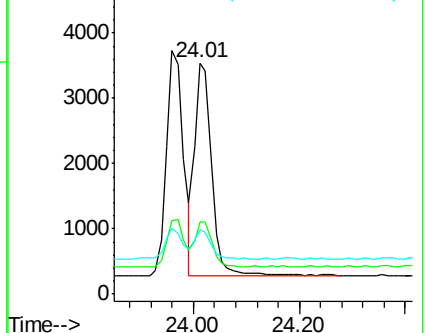
125 27.8 12.2 18.4#

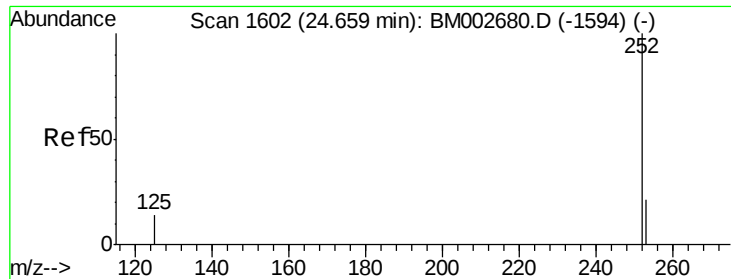


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 0.10 ng/ul

RT: 24.66 min Scan# 1602

Delta R.T. -0.00 min

Lab File: BM002685.D

Acq: 11 Sep 2015 17:24

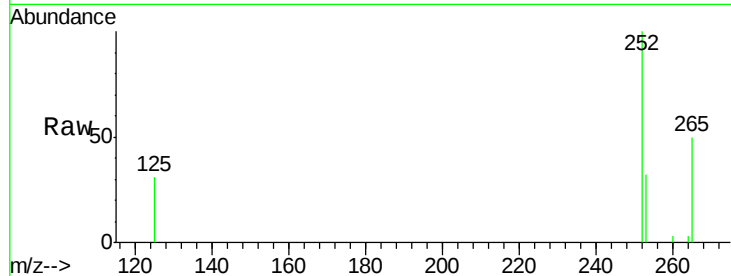
Tot Ion:252 Resp: 6870

Ion Ratio Lower Upper

252 100

253 32.3 21.8 32.8

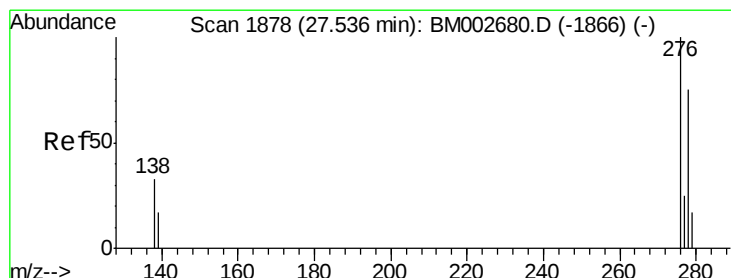
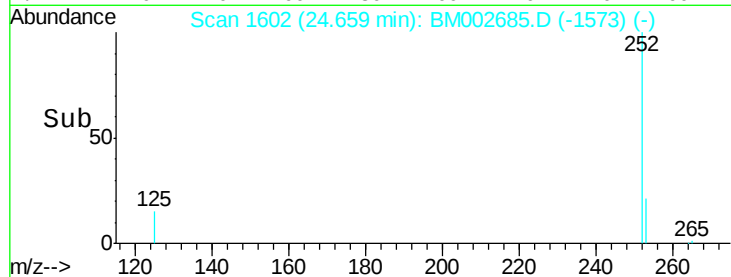
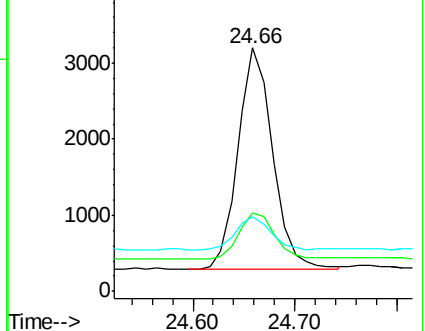
125 30.7 14.5 21.7#



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



#26

Indeno(1,2,3-cd)pyrene

Concen: 0.10 ng/ul

RT: 27.55 min Scan# 1879

Delta R.T. 0.01 min

Lab File: BM002685.D

Acq: 11 Sep 2015 17:24

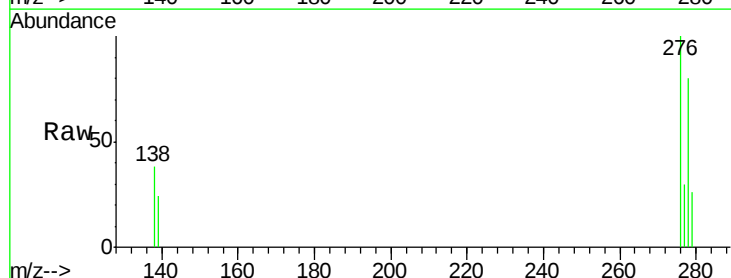
Tgt Ion:276 Resp: 7994

Ion Ratio Lower Upper

276 100

138 33.2 27.5 41.3

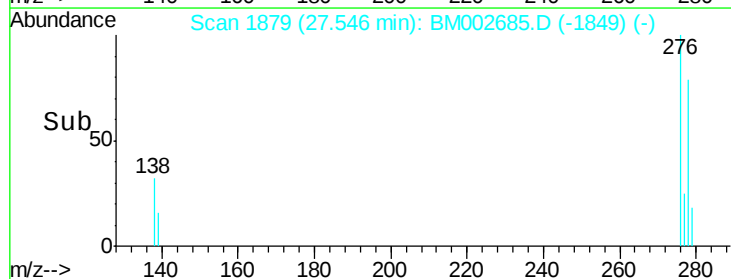
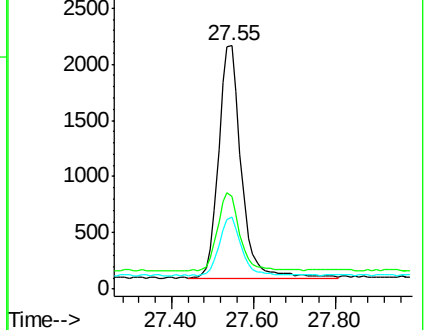
277 24.9 19.3 28.9

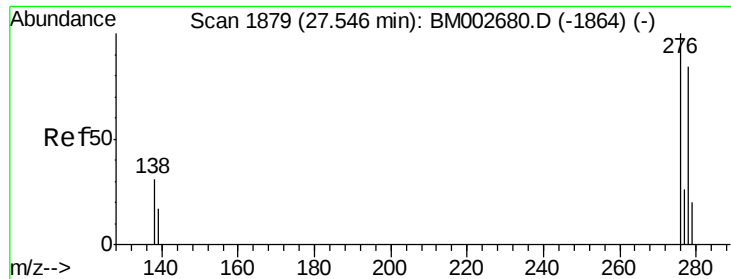


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

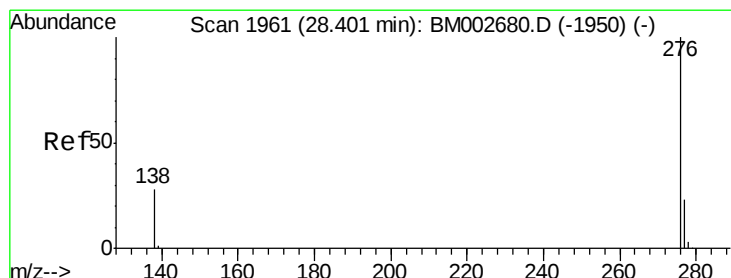
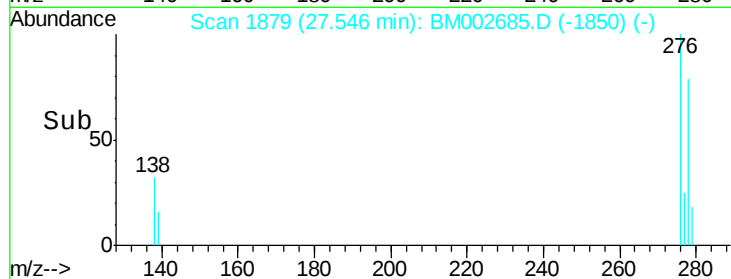
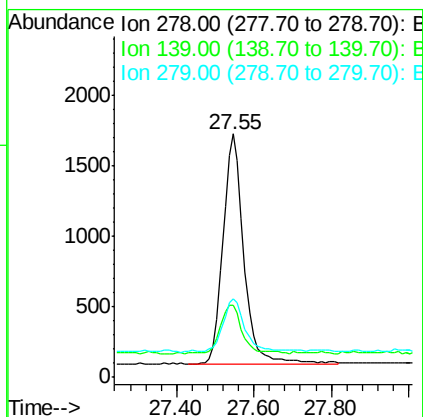
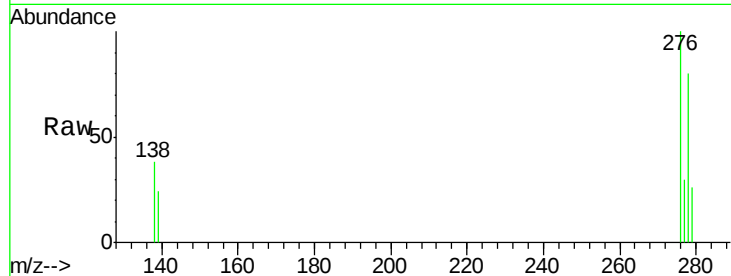




#27  
Dibenzo(a,h)anthracene  
Concen: 0.09 ng/ul  
RT: 27.55 min Scan# 1879  
Delta R.T. -0.00 min  
Lab File: BM002685.D  
Acq: 11 Sep 2015 17:24

Tot Ion: 278 Resp: 6070  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 29.6  | 21.7  | 32.5  |
| 279 | 32.5  | 21.9  | 32.9  |



#28  
Benzo(g,h,i)perylene  
Concen: 0.10 ng/ul  
RT: 28.40 min Scan# 1961  
Delta R.T. -0.00 min  
Lab File: BM002685.D  
Acq: 11 Sep 2015 17:24

Tgt Ion: 276 Resp: 7126  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 28.8  | 21.3  | 31.9  |
| 138 | 35.9  | 25.5  | 38.3  |

