

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM030415\  
 Data File : BM000642.D  
 Acq On : 04 Mar 2015 11:14  
 Operator : TP/IZ  
 Sample : SSTD0.444  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 09 11:49:33 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 : Mon Mar 09 11:18:47 2015

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.67  | 152  | 5262     | 0.40 | ng/ul | 0.00     |
| 4) Naphthalene-d8         | 10.44 | 136  | 19482    | 0.40 | ng/ul | -0.01    |
| 8) Acenaphthene-d10       | 14.31 | 164  | 8006     | 0.40 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 17.05 | 188  | 22209    | 0.40 | ng/ul | 0.00     |
| 18) Chrysene-d12          | 21.26 | 240  | 14779    | 0.40 | ng/ul | 0.00     |
| 22) Perylene-d12          | 23.46 | 264  | 10662    | 0.40 | ng/ul | 0.00     |

#### System Monitoring Compounds

|                            |       |     |       |      |       |      |
|----------------------------|-------|-----|-------|------|-------|------|
| 2) 1,4-Dioxane-d8          | 3.14  | 96  | 9055  | 2.36 | ng/uL | 0.00 |
| 6) 2-Methylnaphthalene-d10 | 12.04 | 152 | 11304 | 0.46 | ng/ul | 0.00 |
| 16) Fluoranthene-d10       | 19.09 | 212 | 20450 | 0.50 | ng/ul | 0.00 |

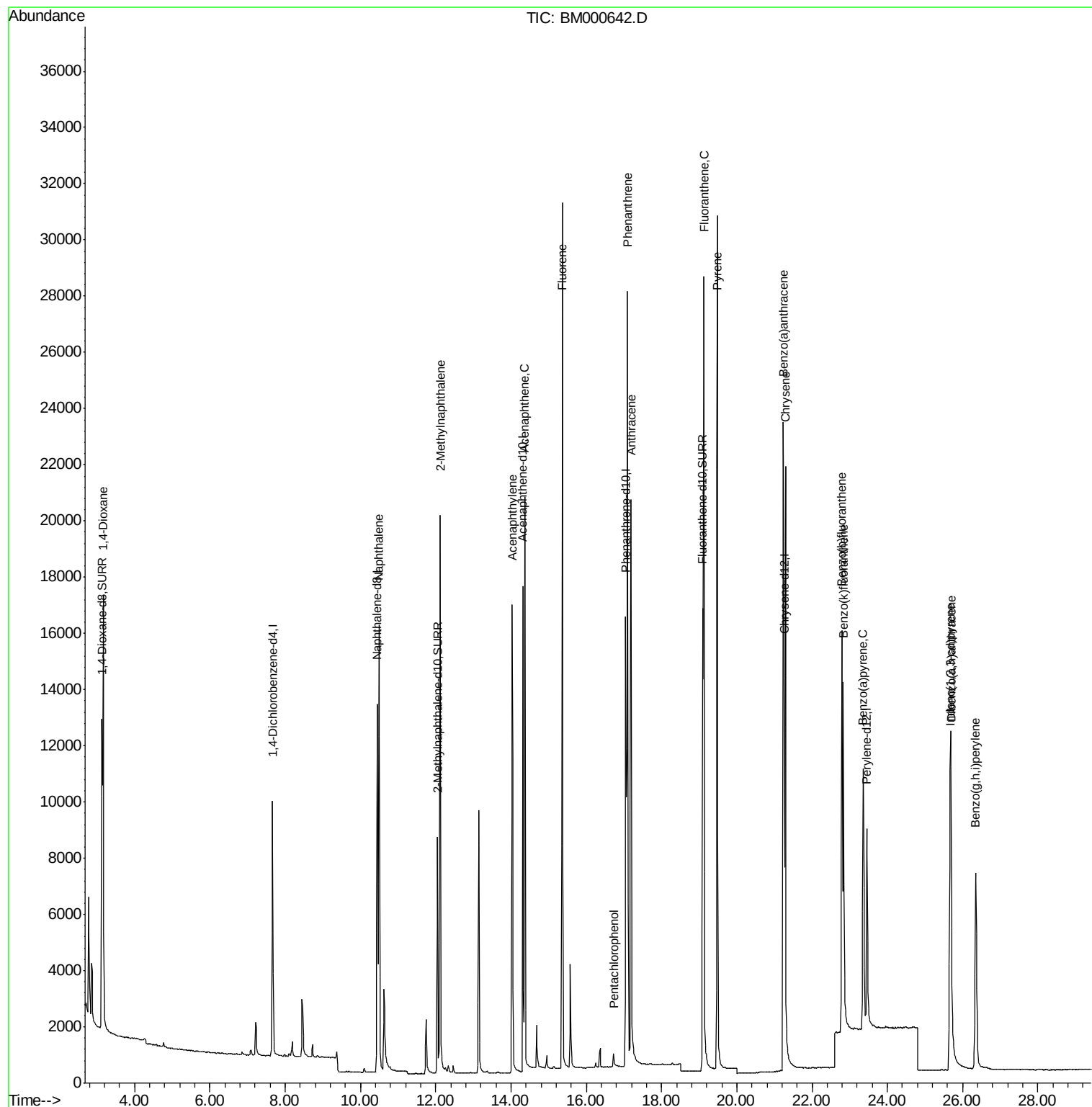
#### Target Compounds

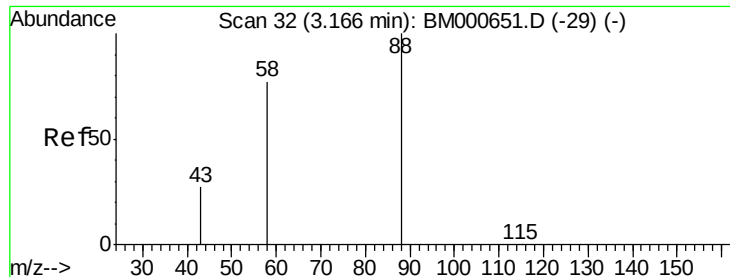
|                            |       |     |       |      |        | Qvalue |
|----------------------------|-------|-----|-------|------|--------|--------|
| 3) 1,4-Dioxane             | 3.17  | 88  | 11558 | 2.36 | ng/ul# | 85     |
| 5) Naphthalene             | 10.49 | 128 | 22957 | 0.45 | ng/ul  | 99     |
| 7) 2-Methylnaphthalene     | 12.12 | 142 | 15713 | 0.47 | ng/ul  | 100    |
| 9) Acenaphthylene          | 14.03 | 152 | 21299 | 0.53 | ng/ul  | 99     |
| 10) Acenaphthene           | 14.36 | 153 | 17305 | 0.54 | ng/ul# | 80     |
| 11) Fluorene               | 15.36 | 166 | 20011 | 0.56 | ng/ul  | 99     |
| 13) Pentachlorophenol      | 16.72 | 266 | 585   | 0.28 | ng/ul  | 93     |
| 14) Phenanthrene           | 17.10 | 178 | 30892 | 0.47 | ng/ul  | 99     |
| 15) Anthracene             | 17.19 | 178 | 26807 | 0.47 | ng/ul  | 99     |
| 17) Fluoranthene           | 19.12 | 202 | 31961 | 0.49 | ng/ul  | 100    |
| 19) Pyrene                 | 19.49 | 202 | 32321 | 0.50 | ng/ul  | 98     |
| 20) Benzo(a)anthracene     | 21.24 | 228 | 20111 | 0.47 | ng/ul  | 99     |
| 21) Chrysene               | 21.29 | 228 | 24094 | 0.48 | ng/ul  | 98     |
| 23) Benzo(b)fluoranthene   | 22.79 | 252 | 17846 | 0.48 | ng/ul  | 98     |
| 24) Benzo(k)fluoranthene   | 22.83 | 252 | 19504 | 0.47 | ng/ul  | 98     |
| 25) Benzo(a)pyrene         | 23.35 | 252 | 16694 | 0.46 | ng/ul  | 95     |
| 26) Indeno(1,2,3-cd)pyrene | 25.67 | 276 | 16967 | 0.44 | ng/ul  | 98     |
| 27) Dibenzo(a,h)anthracene | 25.69 | 278 | 13292 | 0.43 | ng/ul  | 99     |
| 28) Benzo(g,h,i)perylene   | 26.35 | 276 | 15012 | 0.44 | ng/ul  | 97     |

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

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM030415\  
Data File : BM000642.D  
Acq On : 04 Mar 2015 11:14  
Operator : TP/IZ  
Sample : SST0.444  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 09 11:49:33 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 : Mon Mar 09 11:18:47 2015  
Response via : Initial Calibration





#3

1,4-Dioxane

Concen: 2.36 ng/ul

RT: 3.17 min Scan# 32

Delta R.T. 0.00 min

Lab File: BM000642.D

Acq: 04 Mar 2015 11:14

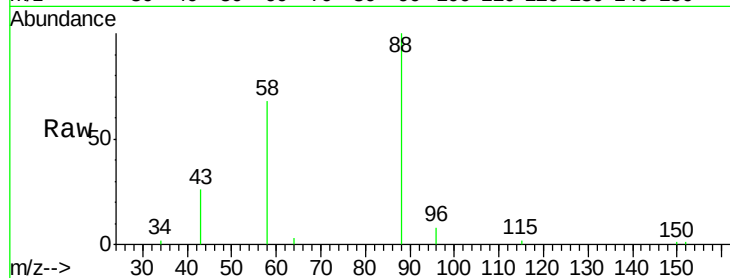
Tgt Ion: 88 Resp: 11558

Ion Ratio Lower Upper

88 100

58 83.6 55.4 83.2#

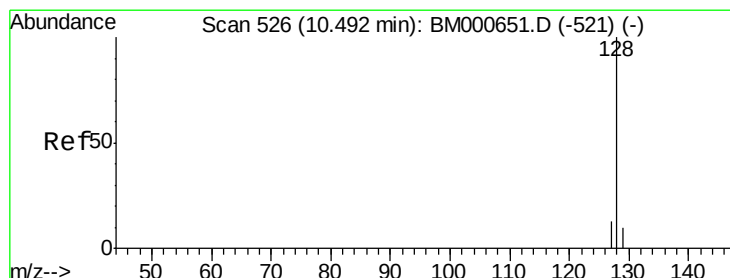
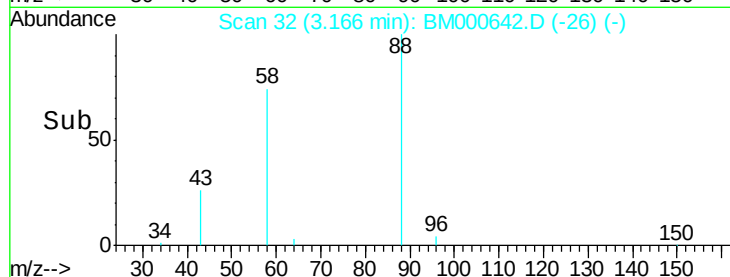
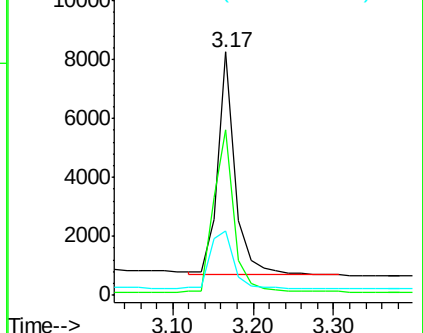
43 34.5 24.2 36.2



Abundance Ion 88.00 (87.70 to 88.70): BM000651.D (-29) (-)

Ion 58.00 (57.70 to 58.70): BM000651.D (-29) (-)

Ion 43.00 (42.70 to 43.70): BM000651.D (-29) (-)



#5

Naphthalene

Concen: 0.45 ng/ul

RT: 10.49 min Scan# 526

Delta R.T. -0.00 min

Lab File: BM000642.D

Acq: 04 Mar 2015 11:14

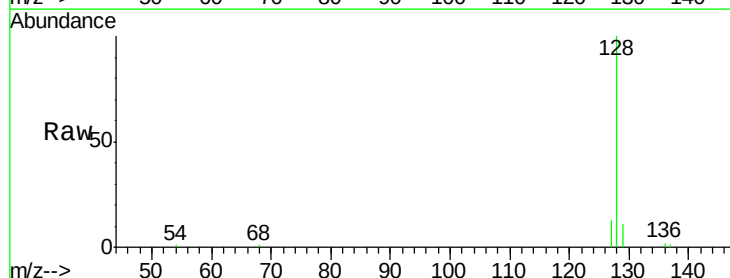
Tgt Ion: 128 Resp: 22957

Ion Ratio Lower Upper

128 100

129 10.6 8.5 12.7

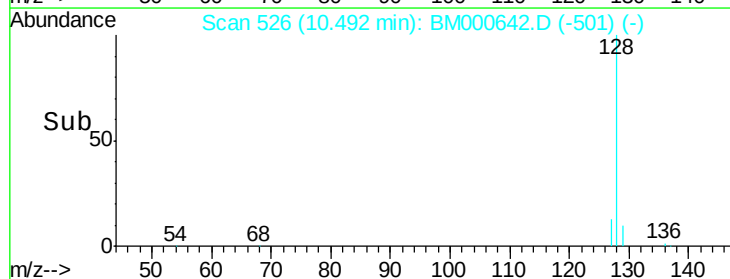
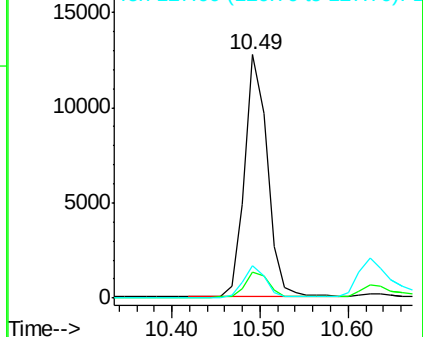
127 13.3 11.0 16.6

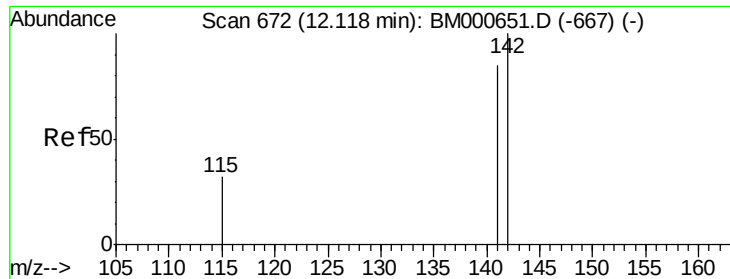


Abundance Ion 128.00 (127.70 to 128.70): BM000651.D (-521) (-)

Ion 129.00 (128.70 to 129.70): BM000651.D (-521) (-)

Ion 127.00 (126.70 to 127.70): BM000651.D (-521) (-)





#7

2-Methylnaphthalene

Concen: 0.47 ng/ul

RT: 12.12 min Scan# 672

Delta R.T. -0.00 min

Lab File: BM000642.D

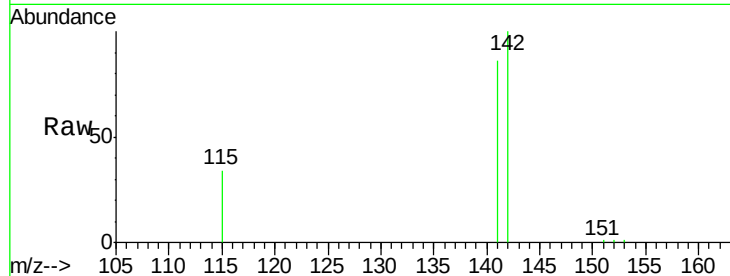
Acq: 04 Mar 2015 11:14

Tgt Ion:142 Resp: 15713

Ion Ratio Lower Upper

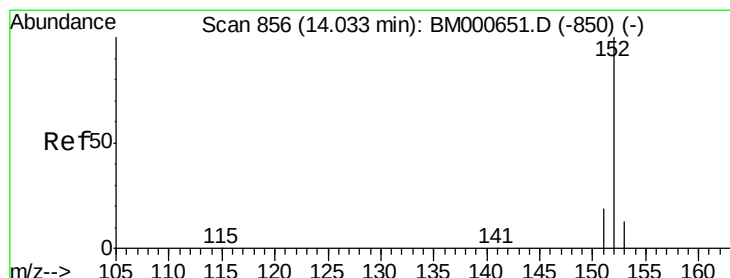
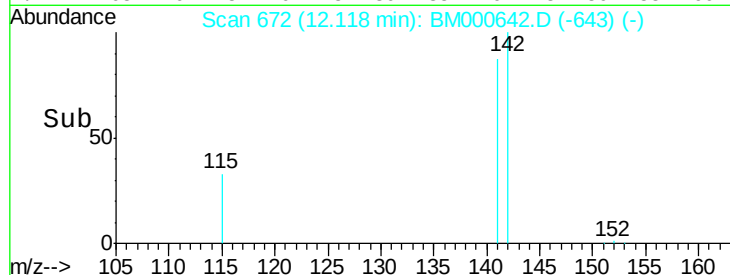
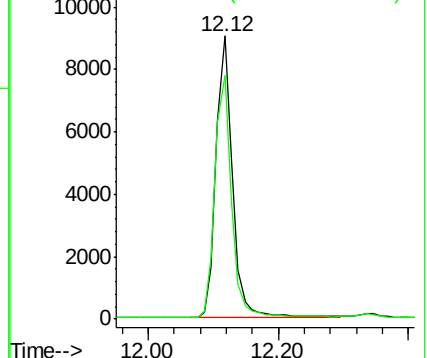
142 100

141 88.6 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: 0.53 ng/ul

RT: 14.03 min Scan# 856

Delta R.T. -0.00 min

Lab File: BM000642.D

Acq: 04 Mar 2015 11:14

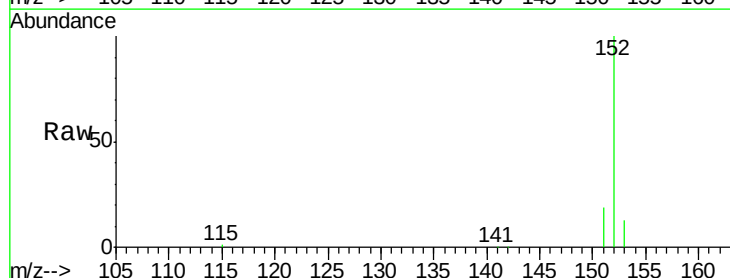
Tgt Ion:152 Resp: 21299

Ion Ratio Lower Upper

152 100

151 19.5 16.0 24.0

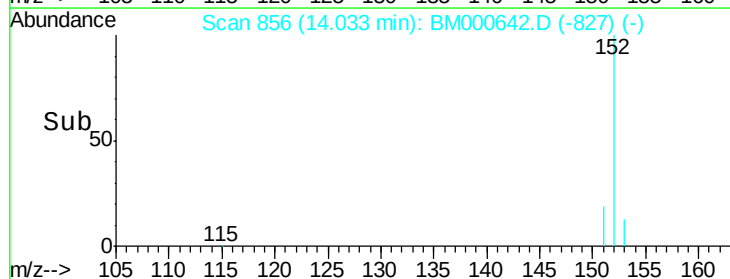
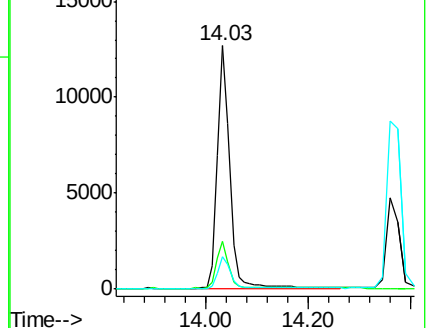
153 13.1 10.2 15.4

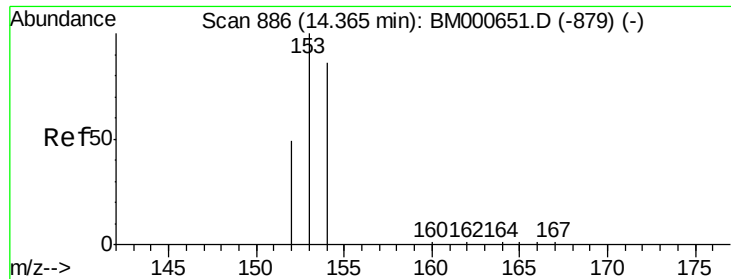


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#10

Acenaphthene

Concen: 0.54 ng/ul

RT: 14.36 min Scan# 886

Delta R.T. -0.02 min

Lab File: BM000642.D

Acq: 04 Mar 2015 11:14

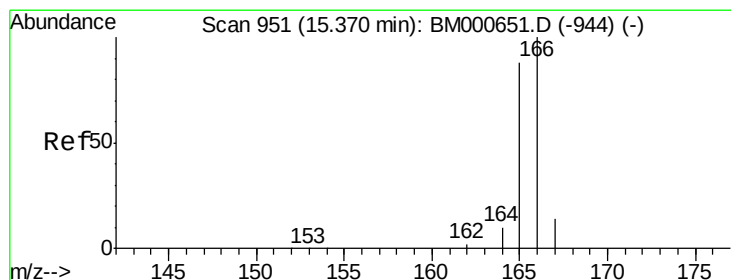
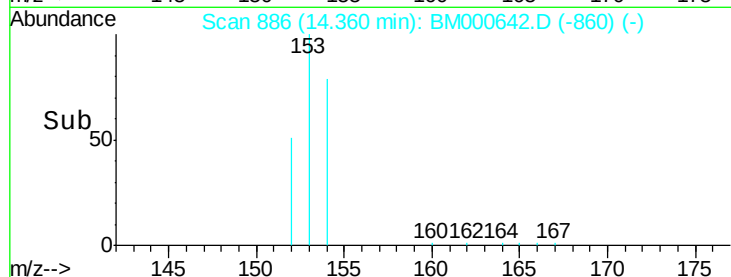
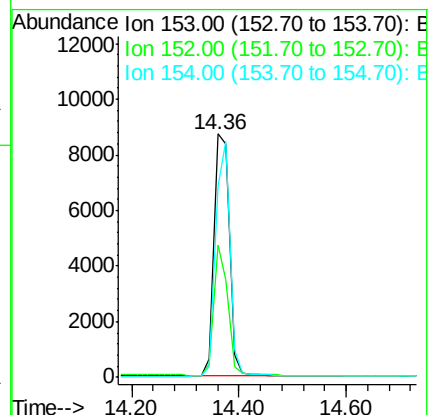
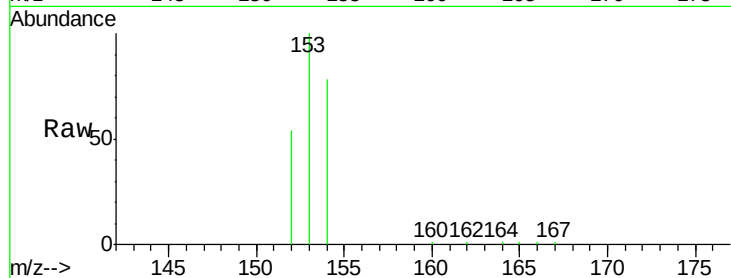
Tgt Ion: 153 Resp: 17305

Ion Ratio Lower Upper

153 100

152 54.4 34.2 51.2#

154 78.5 78.8 118.2#



#11

Fluorene

Concen: 0.56 ng/ul

RT: 15.36 min Scan# 951

Delta R.T. -0.00 min

Lab File: BM000642.D

Acq: 04 Mar 2015 11:14

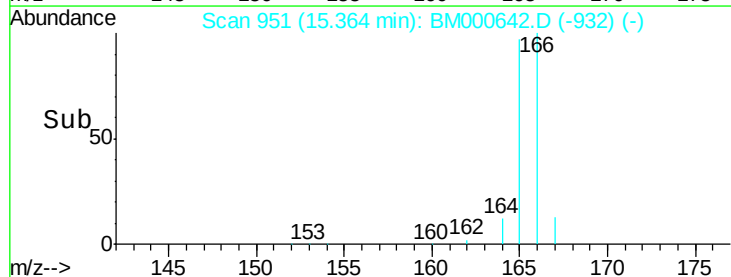
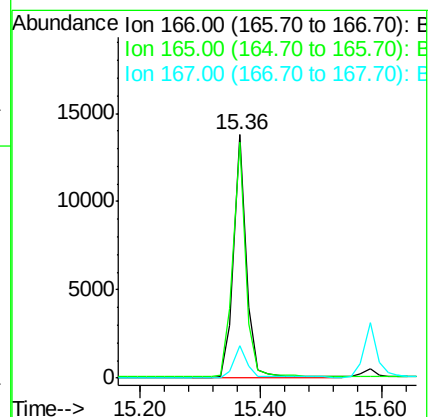
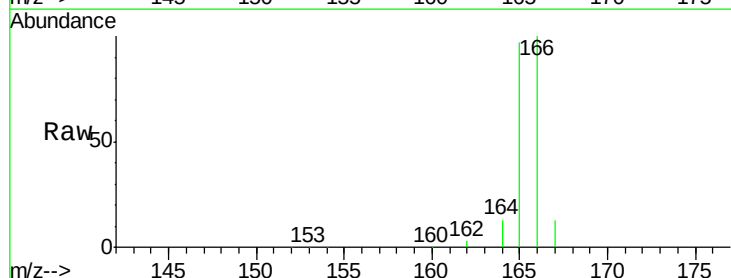
Tgt Ion: 166 Resp: 20011

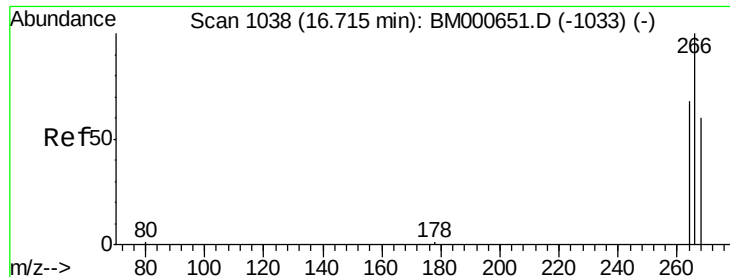
Ion Ratio Lower Upper

166 100

165 96.8 78.5 117.7

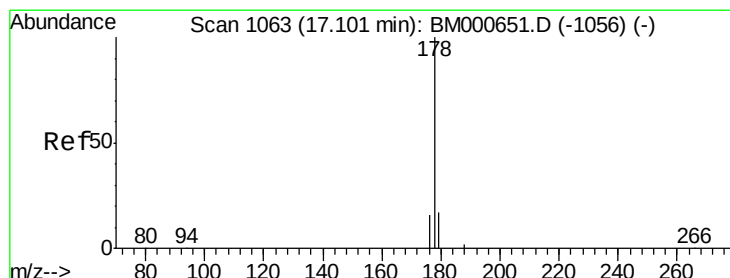
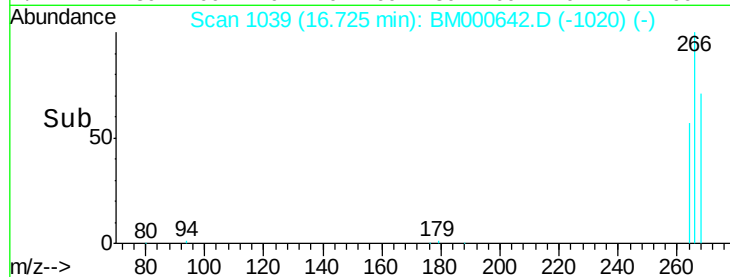
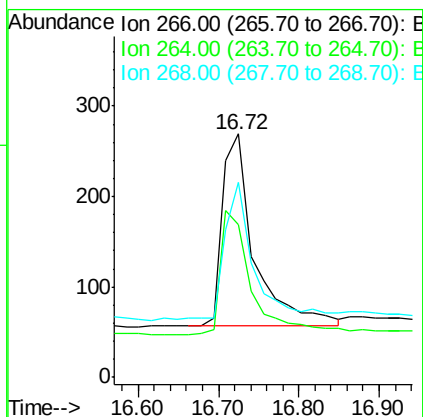
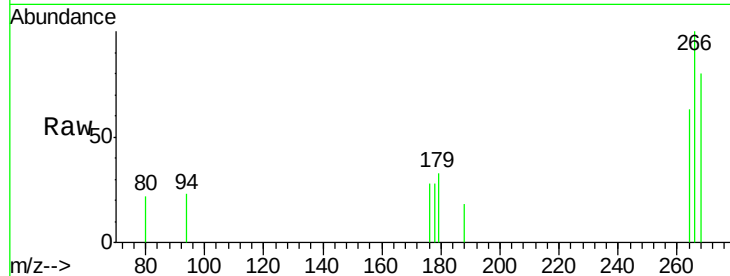
167 13.5 10.6 16.0





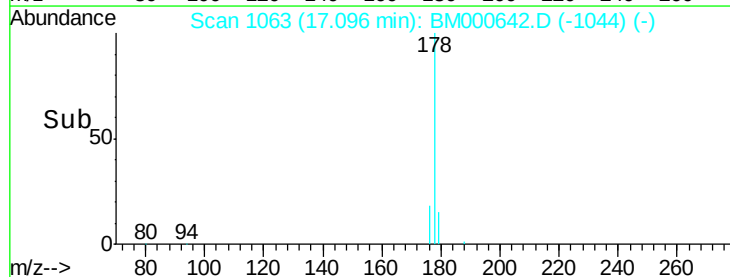
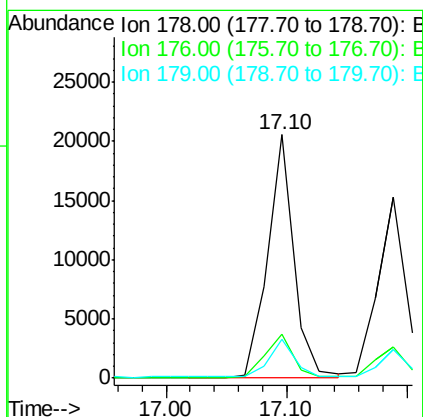
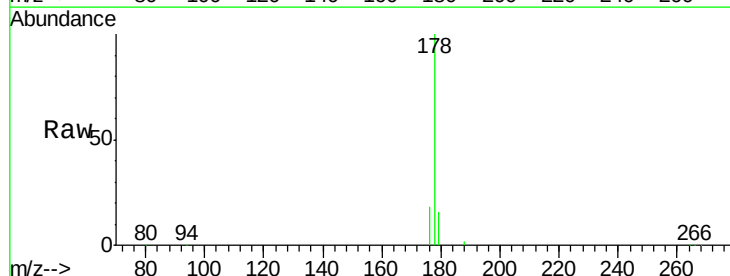
#13  
 Pentachlorophenol  
 Concen: 0.28 ng/ul  
 RT: 16.72 min Scan# 1039  
 Delta R.T. -0.00 min  
 Lab File: BM000642.D  
 Acq: 04 Mar 2015 11:14

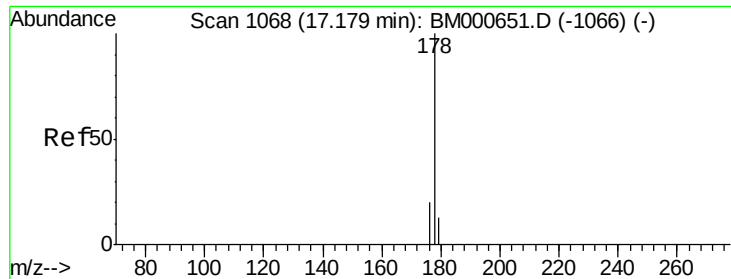
Tgt Ion: 266 Resp: 585  
 Ion Ratio Lower Upper  
 266 100  
 264 67.4 51.0 76.4  
 268 69.4 49.4 74.2



#14  
 Phenanthrene  
 Concen: 0.47 ng/ul  
 RT: 17.10 min Scan# 1063  
 Delta R.T. -0.00 min  
 Lab File: BM000642.D  
 Acq: 04 Mar 2015 11:14

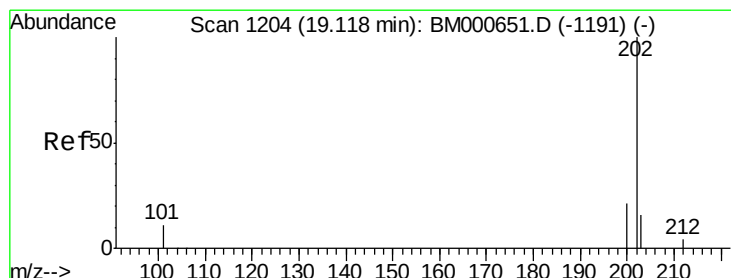
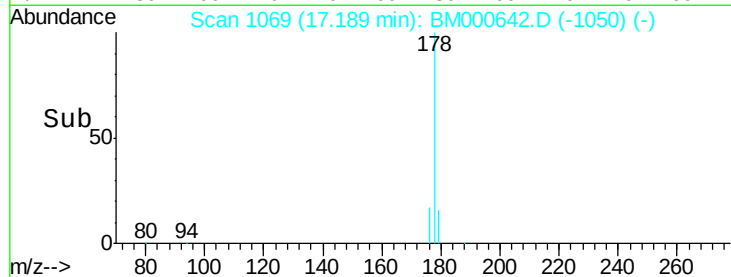
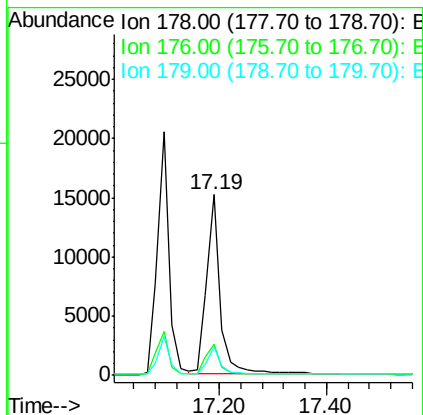
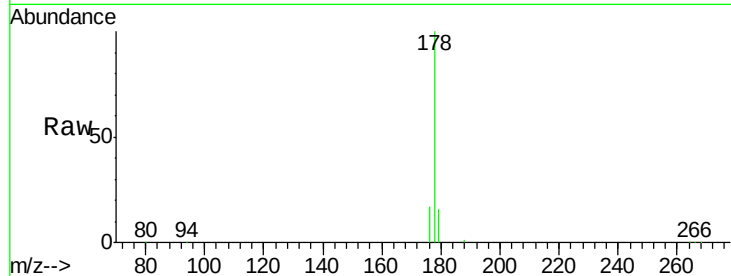
Tgt Ion: 178 Resp: 30892  
 Ion Ratio Lower Upper  
 178 100  
 176 17.8 14.8 22.2  
 179 15.9 12.7 19.1





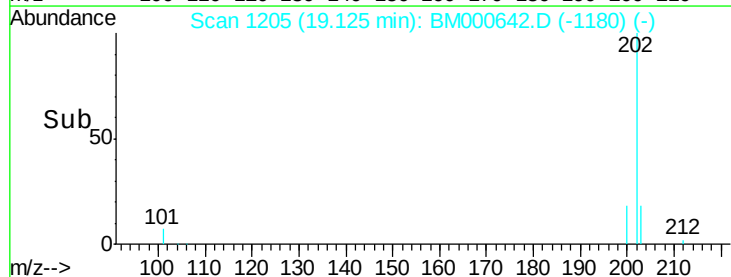
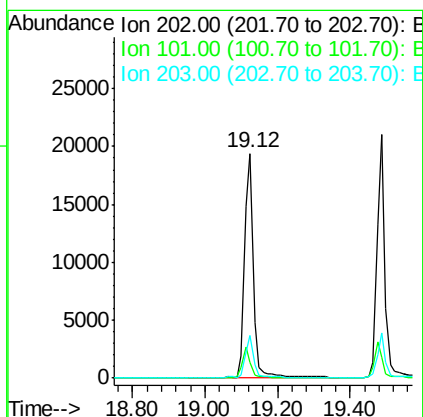
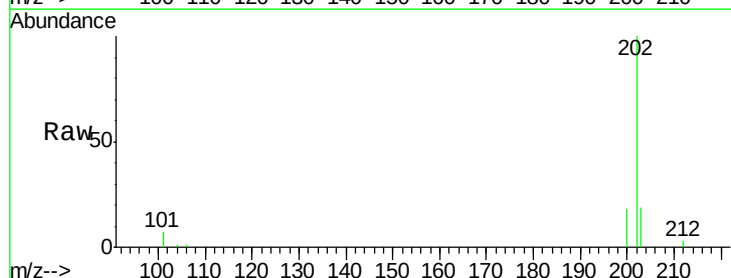
#15  
 Anthracene  
 Concen: 0.47 ng/ul  
 RT: 17.19 min Scan# 1069  
 Delta R.T. -0.00 min  
 Lab File: BM000642.D  
 Acq: 04 Mar 2015 11:14

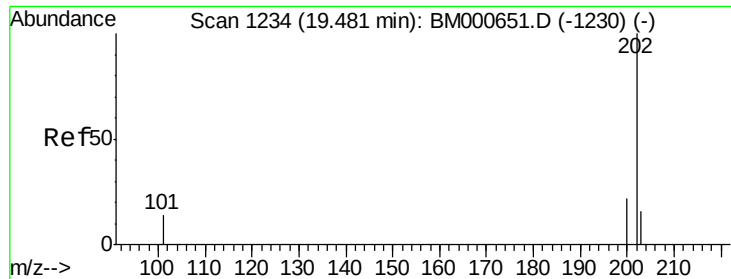
Tgt Ion:178 Resp: 26807  
 Ion Ratio Lower Upper  
 178 100  
 176 17.5 14.2 21.4  
 179 16.2 12.8 19.2



#17  
 Fluoranthene  
 Concen: 0.49 ng/ul  
 RT: 19.12 min Scan# 1205  
 Delta R.T. -0.00 min  
 Lab File: BM000642.D  
 Acq: 04 Mar 2015 11:14

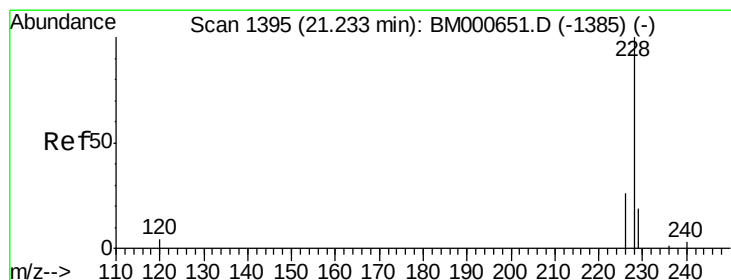
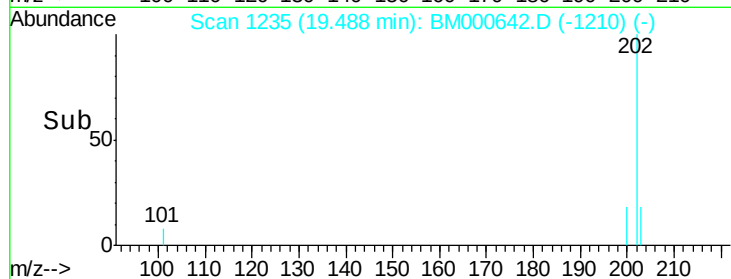
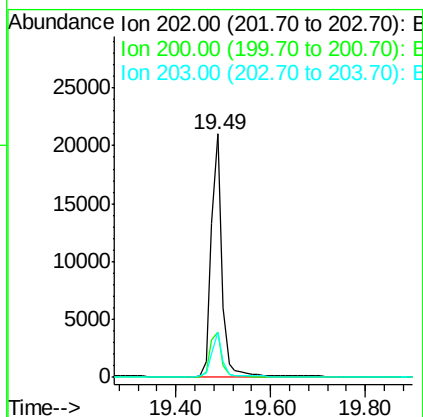
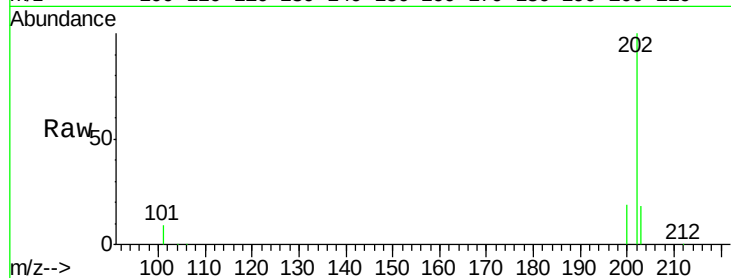
Tgt Ion:202 Resp: 31961  
 Ion Ratio Lower Upper  
 202 100  
 101 6.9 0.0 27.0  
 203 18.7 0.0 38.5





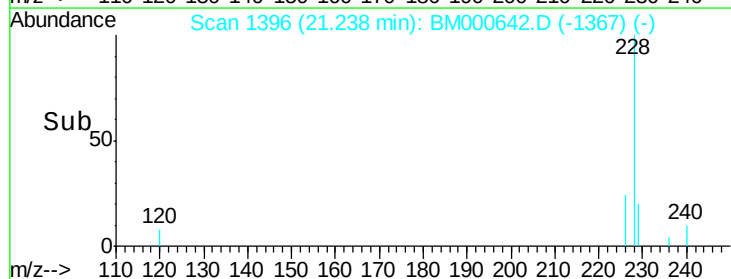
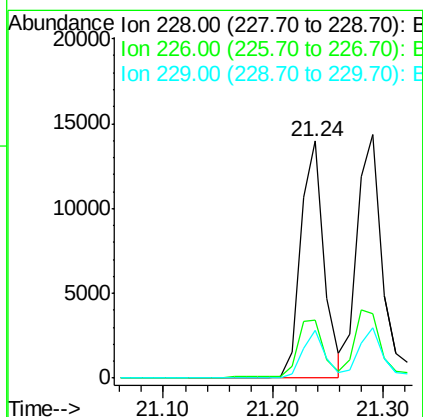
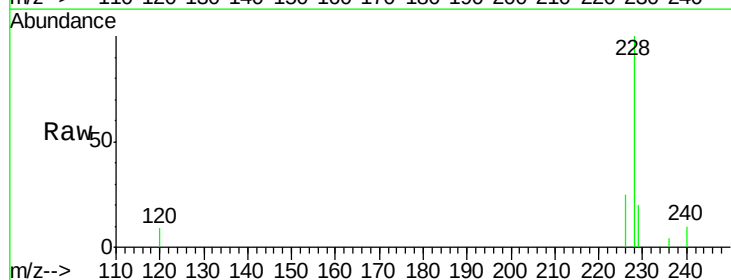
#19  
Pyrene  
Concen: 0.50 ng/ul  
RT: 19.49 min Scan# 1235  
Delta R.T. -0.00 min  
Lab File: BM000642.D  
Acq: 04 Mar 2015 11:14

Tgt Ion: 202 Resp: 32321  
Ion Ratio Lower Upper  
202 100  
200 18.7 15.5 23.3  
203 18.3 14.2 21.2

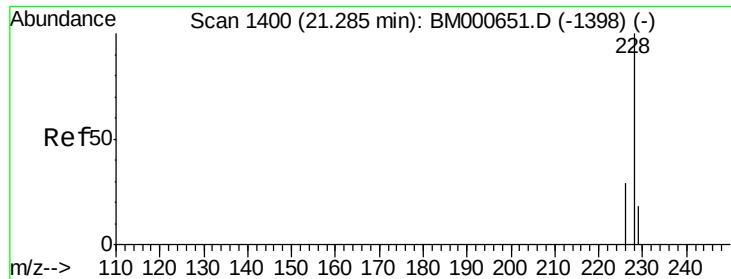


#20  
Benzo(a)anthracene  
Concen: 0.47 ng/ul  
RT: 21.24 min Scan# 1396  
Delta R.T. -0.00 min  
Lab File: BM000642.D  
Acq: 04 Mar 2015 11:14

Tgt Ion: 228 Resp: 20111  
Ion Ratio Lower Upper  
228 100  
226 24.7 20.0 30.0  
229 20.4 16.7 25.1







#21

Chrysene

Concen: 0.48 ng/ul

RT: 21.29 min Scan# 1401

Delta R.T. -0.00 min

Lab File: BM000642.D

Acq: 04 Mar 2015 11:14

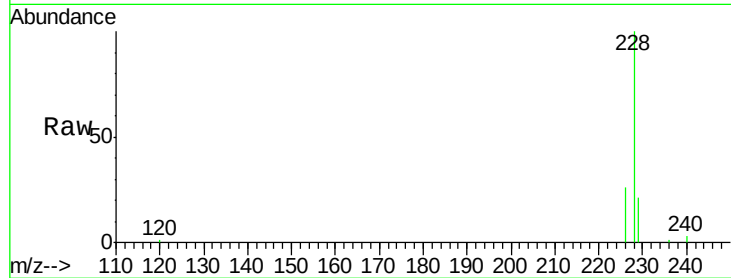
Tgt Ion: 228 Resp: 24094

Ion Ratio Lower Upper

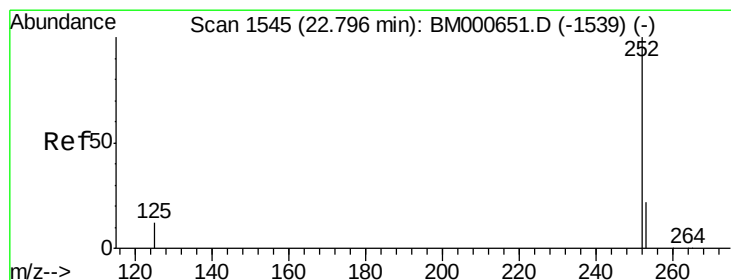
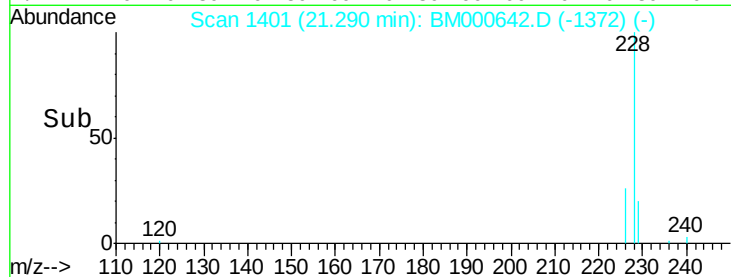
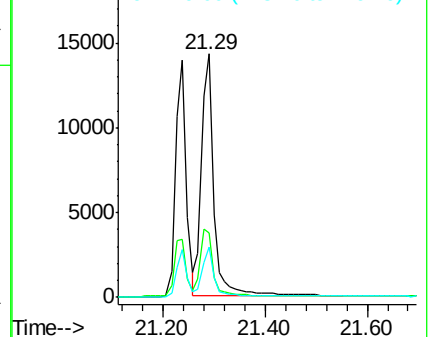
228 100

226 26.4 22.6 33.8

229 20.6 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: 0.48 ng/ul

RT: 22.79 min Scan# 1545

Delta R.T. -0.00 min

Lab File: BM000642.D

Acq: 04 Mar 2015 11:14

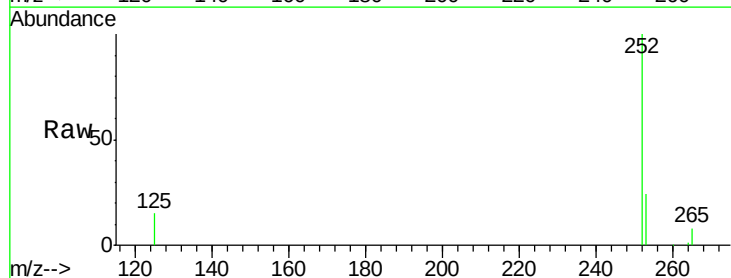
Tgt Ion: 252 Resp: 17846

Ion Ratio Lower Upper

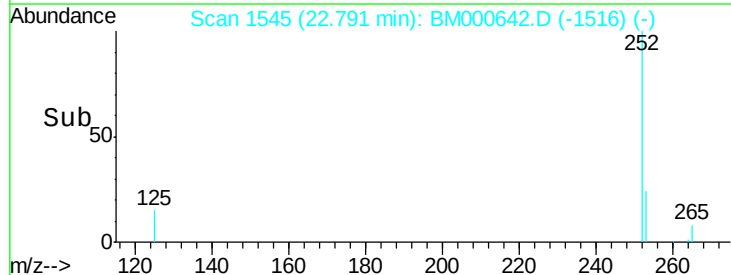
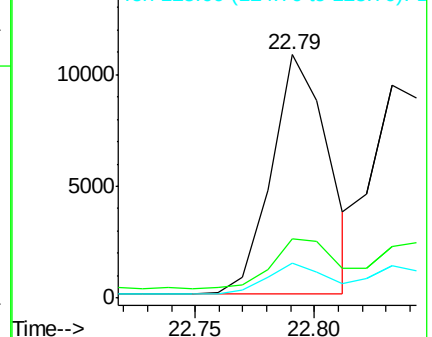
252 100

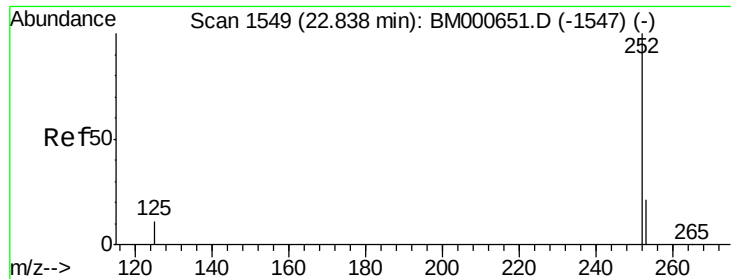
253 24.3 0.0 51.2

125 14.5 0.0 30.0



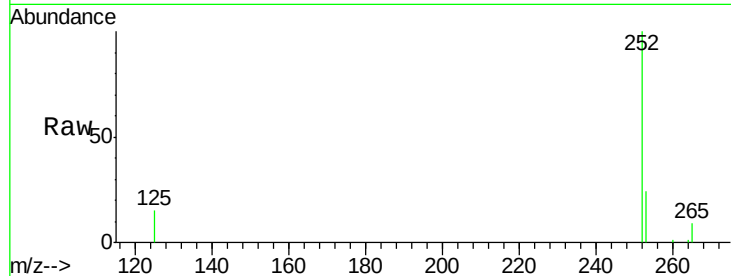
Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



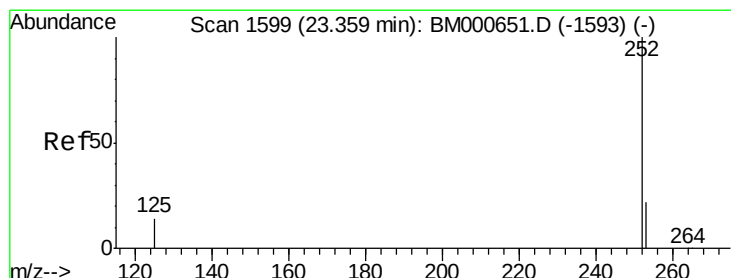
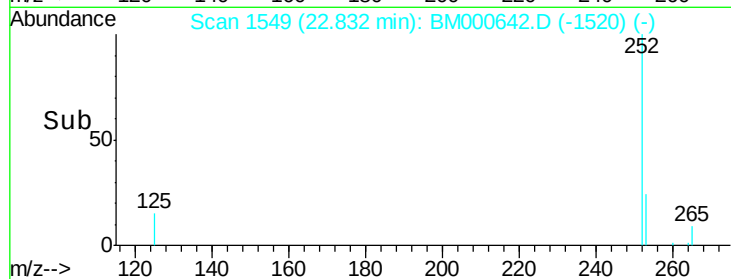
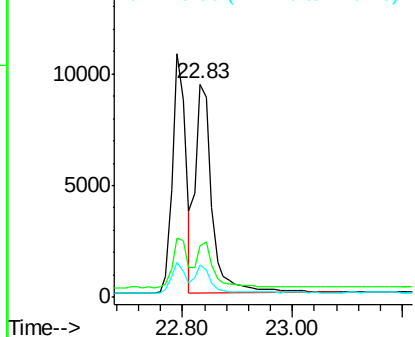


#24  
Benzo(k)fluoranthene  
Concen: 0.47 ng/ul  
RT: 22.83 min Scan# 1549  
Delta R.T. -0.00 min  
Lab File: BM000642.D  
Acq: 04 Mar 2015 11:14

Tgt Ion: 252 Resp: 19504  
Ion Ratio Lower Upper  
252 100  
253 24.4 20.5 30.7  
125 15.3 11.8 17.6

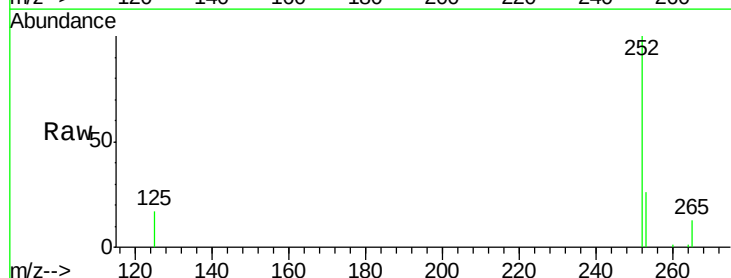


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

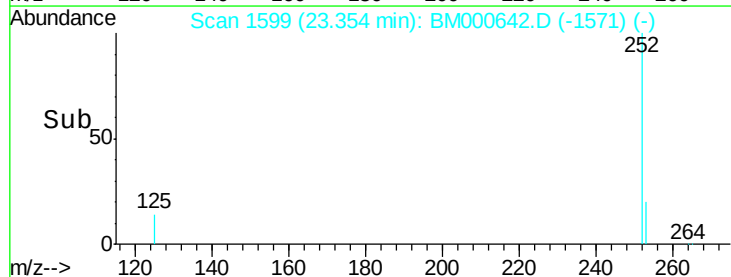
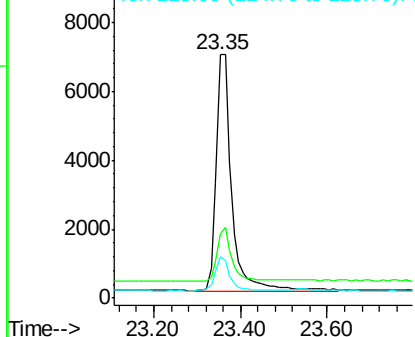


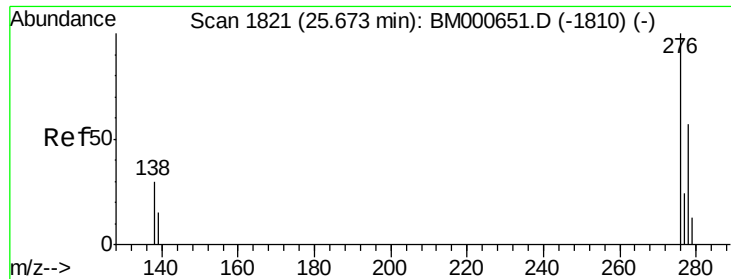
#25  
Benzo(a)pyrene  
Concen: 0.46 ng/ul  
RT: 23.35 min Scan# 1599  
Delta R.T. -0.01 min  
Lab File: BM000642.D  
Acq: 04 Mar 2015 11:14

Tgt Ion: 252 Resp: 16694  
Ion Ratio Lower Upper  
252 100  
253 26.5 23.4 35.0  
125 17.0 12.2 18.4



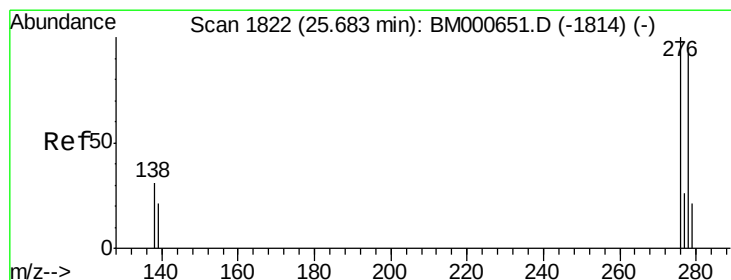
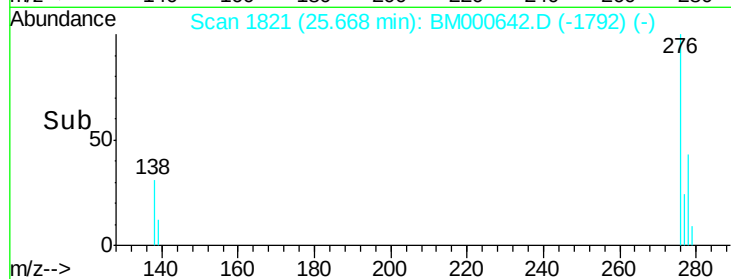
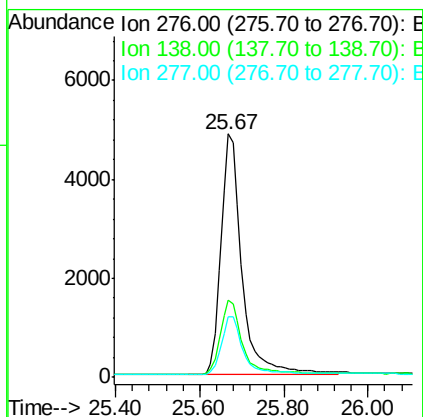
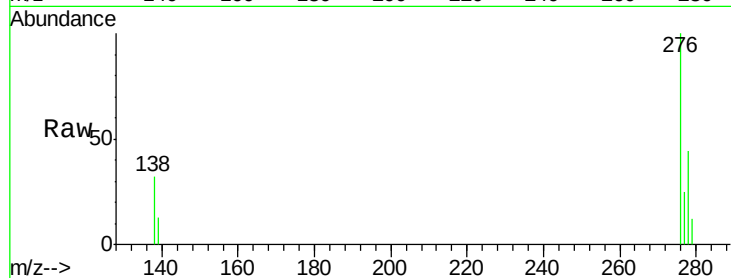
Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





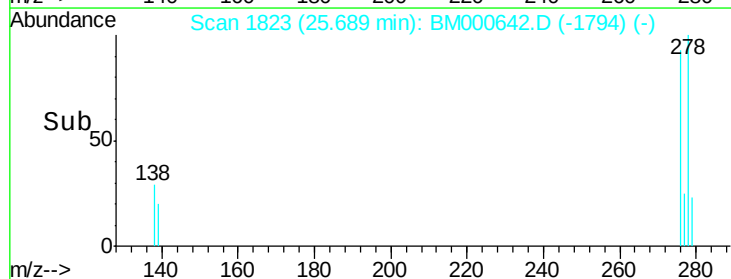
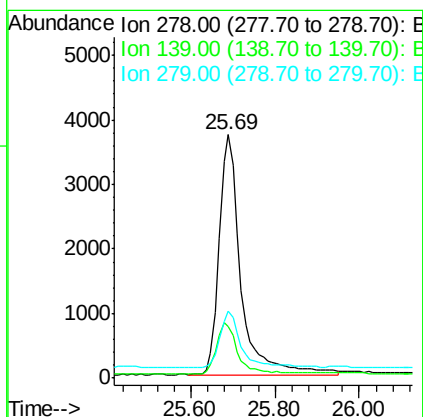
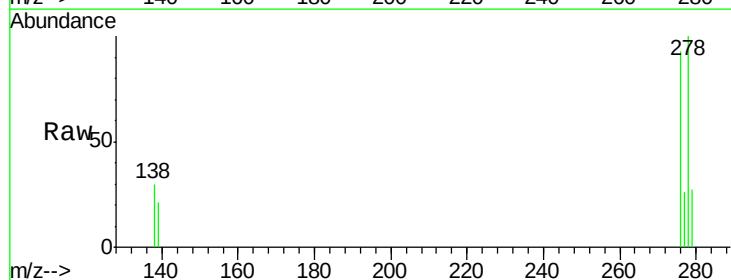
#26  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.44 ng/ul  
 RT: 25.67 min Scan# 1821  
 Delta R.T. -0.00 min  
 Lab File: BM000642.D  
 Acq: 04 Mar 2015 11:14

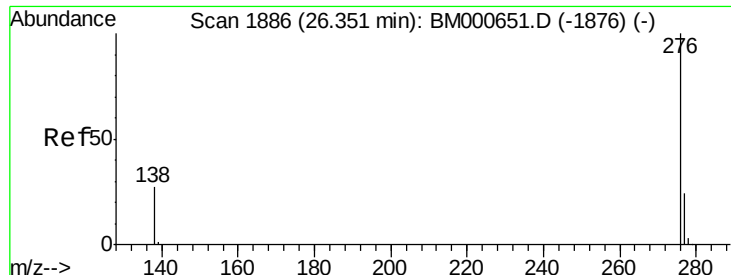
Tgt Ion: 276 Resp: 16967  
 Ion Ratio Lower Upper  
 276 100  
 138 32.1 23.8 35.8  
 277 24.7 19.7 29.5



#27  
 Dibenzo(a,h)anthracene  
 Concen: 0.43 ng/ul  
 RT: 25.69 min Scan# 1823  
 Delta R.T. -0.00 min  
 Lab File: BM000642.D  
 Acq: 04 Mar 2015 11:14

Tgt Ion: 278 Resp: 13292  
 Ion Ratio Lower Upper  
 278 100  
 139 21.4 17.0 25.6  
 279 27.4 22.3 33.5





#28

Benzo(g,h,i)perylene

Concen: 0.44 ng/ul

RT: 26.35 min Scan# 1886

Delta R.T. -0.01 min

Lab File: BM000642.D

Acq: 04 Mar 2015 11:14

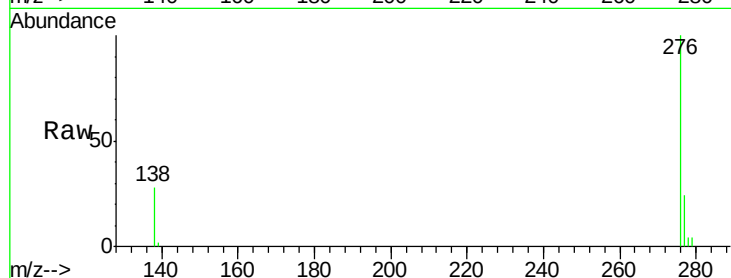
Tgt Ion: 276 Resp: 15012

Ion Ratio Lower Upper

276 100

277 24.3 19.9 29.9

138 28.1 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

