

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM010815\  
 Data File : BM000147.D  
 Acq On : 08 Jan 2015 17:55  
 Operator : TP/IZ  
 Sample : MDL-02-W  
 Misc : MDL-WATER-0.15PPM-SIM  
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jan 09 00:37:47 2015

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-SIM-BM010715.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Jan 08 10:41:47 2015

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.84  | 152  | 2988     | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.64 | 136  | 10061    | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.47 | 164  | 6375     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.23 | 188  | 12010    | 0.40 | ng/ul | 0.02     |
| 16) Chrysene-d12          | 21.41 | 240  | 10143    | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.70 | 264  | 11731    | 0.40 | ng/ul | 0.00     |

#### System Monitoring Compounds

|                            |       |     |      |      |       |      |
|----------------------------|-------|-----|------|------|-------|------|
| 4) 2-Methylnaphthalene-d10 | 12.22 | 152 | 4144 | 0.31 | ng/ul | 0.00 |
| 14) Fluoranthene-d10       | 19.25 | 212 | 6537 | 0.25 | ng/ul | 0.00 |

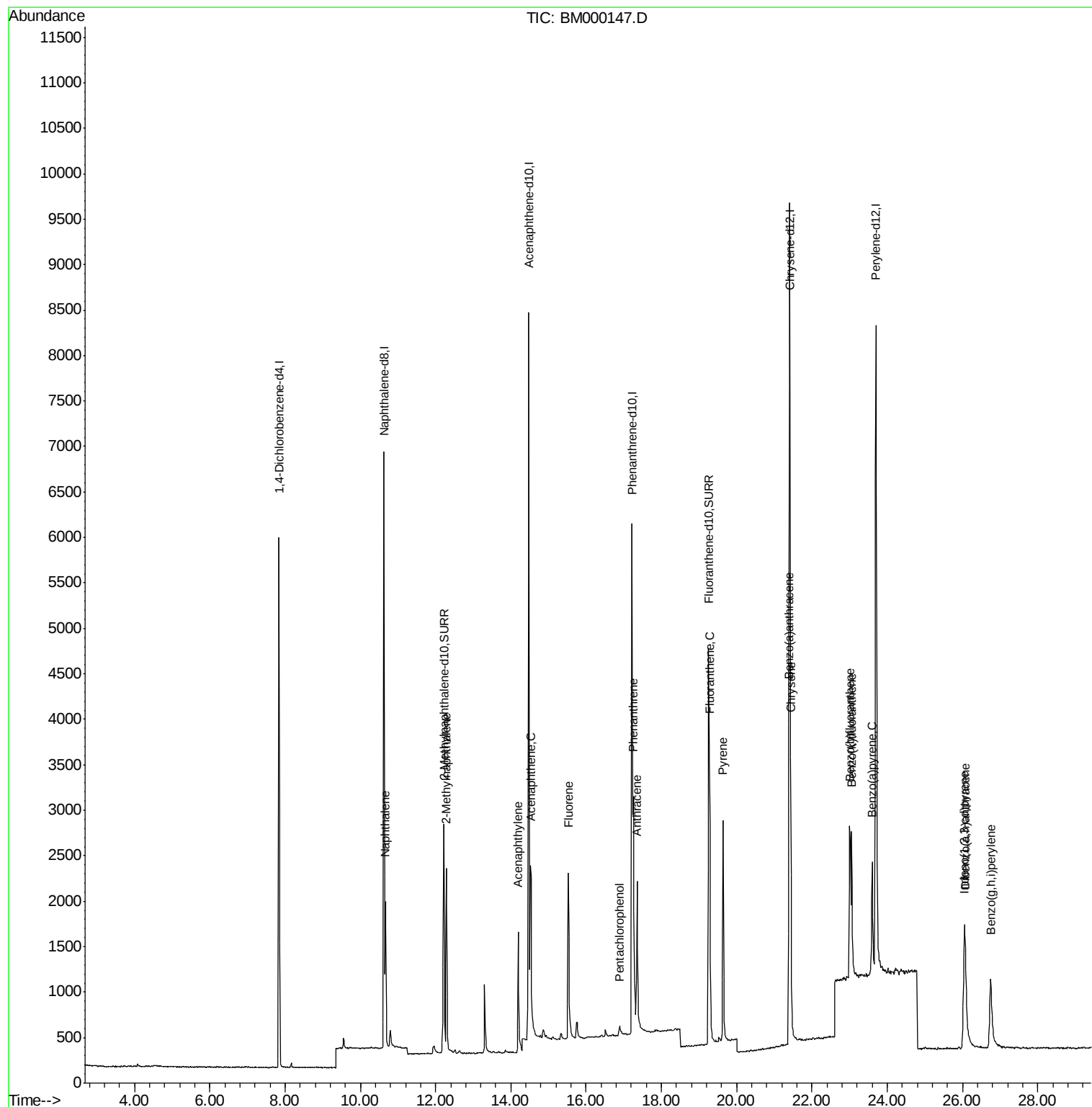
#### Target Compounds

|                            |       |     |      |      |        | Qvalue |
|----------------------------|-------|-----|------|------|--------|--------|
| 3) Naphthalene             | 10.67 | 128 | 2322 | 0.09 | ng/ul# | 94     |
| 5) 2-Methylnaphthalene     | 12.28 | 142 | 1502 | 0.08 | ng/ul  | 98     |
| 7) Acenaphthylene          | 14.20 | 152 | 2337 | 0.07 | ng/ul# | 92     |
| 8) Acenaphthene            | 14.52 | 153 | 1495 | 0.08 | ng/ul# | 80     |
| 9) Fluorene                | 15.52 | 166 | 1762 | 0.08 | ng/ul# | 88     |
| 11) Pentachlorophenol      | 16.89 | 266 | 193  | 0.10 | ng/ul  | 89     |
| 12) Phenanthrene           | 17.26 | 178 | 2768 | 0.07 | ng/ul# | 91     |
| 13) Anthracene             | 17.35 | 178 | 2692 | 0.08 | ng/ul# | 91     |
| 15) Fluoranthene           | 19.27 | 202 | 3164 | 0.08 | ng/ul  | 92     |
| 17) Pyrene                 | 19.64 | 202 | 3224 | 0.08 | ng/ul# | 93     |
| 18) Benzo(a)anthracene     | 21.39 | 228 | 2576 | 0.08 | ng/ul  | 94     |
| 19) Chrysene               | 21.44 | 228 | 2864 | 0.08 | ng/ul  | 97     |
| 21) Benzo(b)fluoranthene   | 23.00 | 252 | 2943 | 0.06 | ng/ul  | 78     |
| 22) Benzo(k)fluoranthene   | 23.05 | 252 | 2618 | 0.06 | ng/ul# | 82     |
| 23) Benzo(a)pyrene         | 23.60 | 252 | 2516 | 0.06 | ng/ul# | 72     |
| 24) Indeno(1,2,3-cd)pyrene | 26.05 | 276 | 2889 | 0.06 | ng/ul  | 99     |
| 25) Dibenzo(a,h)anthracene | 26.07 | 278 | 2244 | 0.06 | ng/ul# | 76     |
| 26) Benzo(g,h,i)perylene   | 26.74 | 276 | 2585 | 0.06 | ng/ul# | 82     |

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

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#3

Naphthalene

Concen: 0.09 ng/ul

RT: 10.67 min Scan# 1352

Delta R.T. -0.01 min

Lab File: BM000147.D

Acq: 08 Jan 2015 17:55

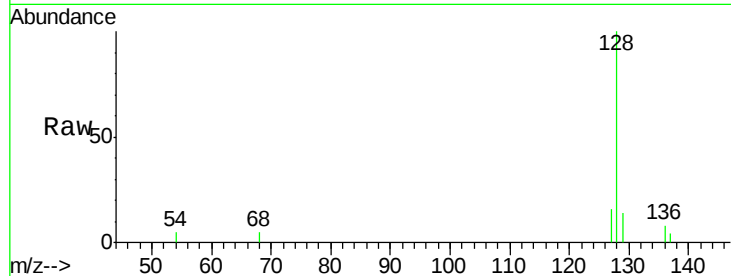
Tgt Ion:128 Resp: 2322

Ion Ratio Lower Upper

128 100

129 13.7 9.5 14.3

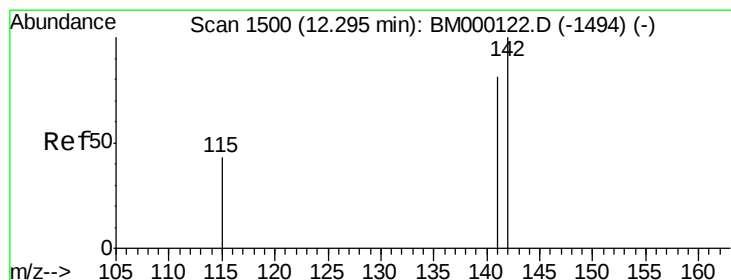
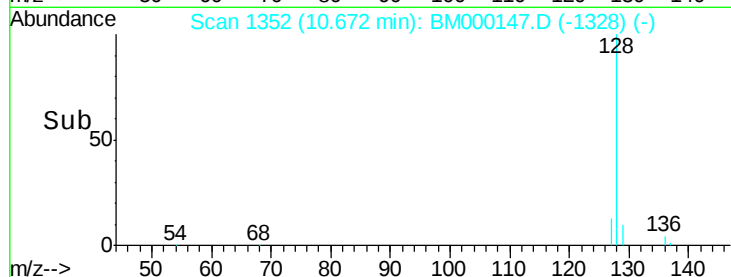
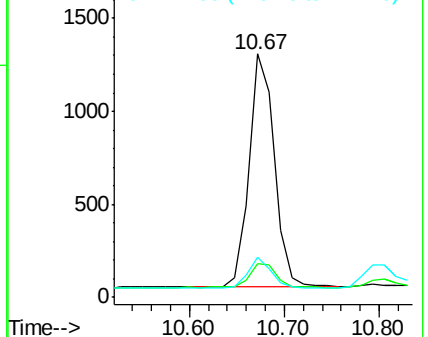
127 16.3 10.4 15.6#



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: 0.08 ng/ul

RT: 12.28 min Scan# 1499

Delta R.T. -0.01 min

Lab File: BM000147.D

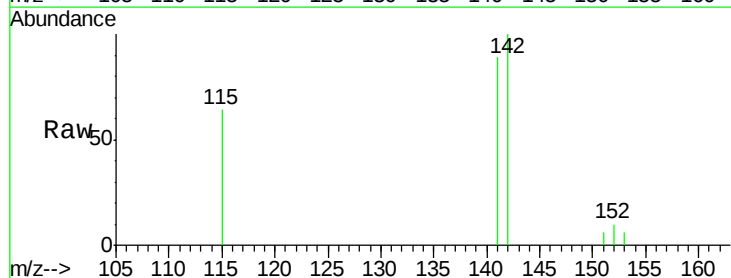
Acq: 08 Jan 2015 17:55

Tgt Ion:142 Resp: 1502

Ion Ratio Lower Upper

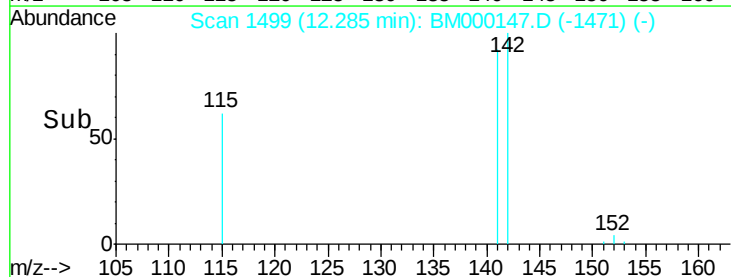
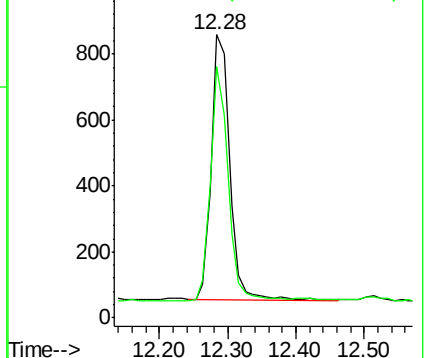
142 100

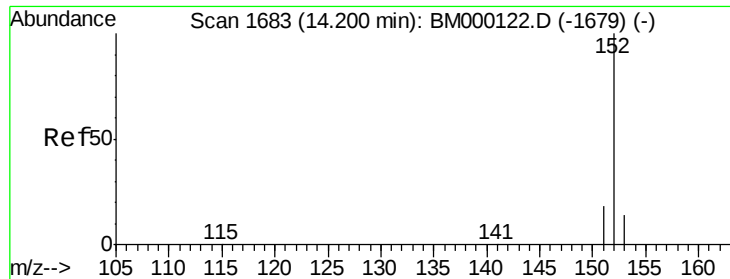
141 84.2 68.9 103.3



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.07 ng/ul

RT: 14.20 min Scan# 1683

Delta R.T. 0.00 min

Lab File: BM000147.D

Acq: 08 Jan 2015 17:55

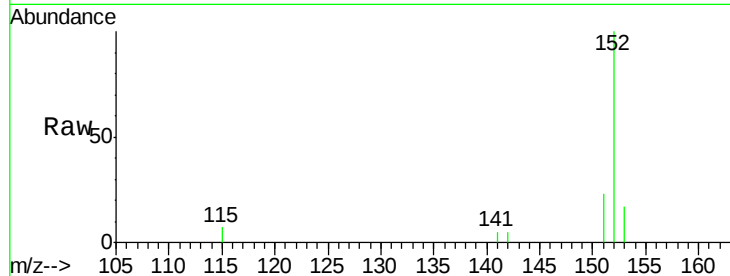
Tgt Ion:152 Resp: 2337

Ion Ratio Lower Upper

152 100

151 22.7 15.4 23.2

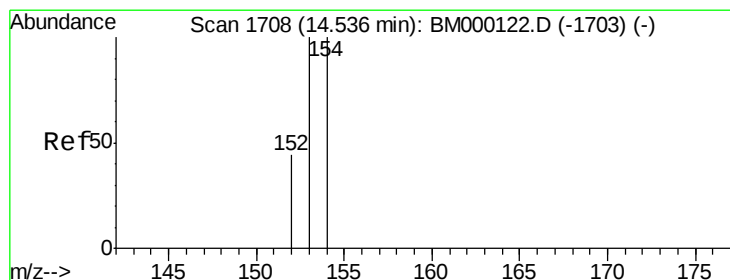
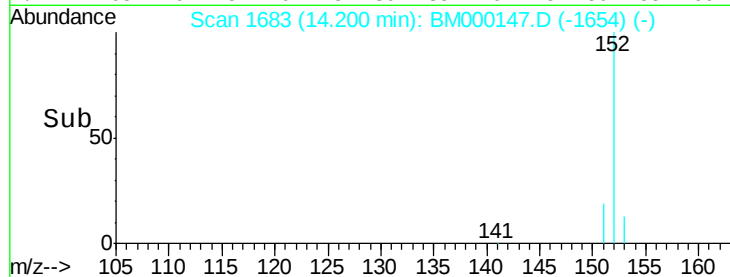
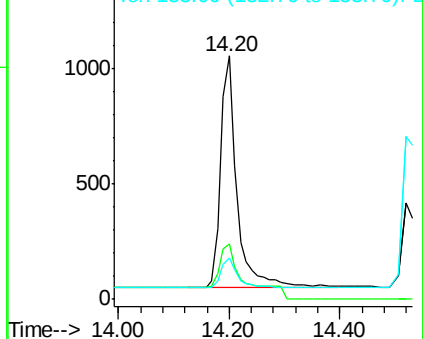
153 17.1 11.0 16.4#



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



#8

Acenaphthene

Concen: 0.08 ng/ul

RT: 14.52 min Scan# 1707

Delta R.T. -0.02 min

Lab File: BM000147.D

Acq: 08 Jan 2015 17:55

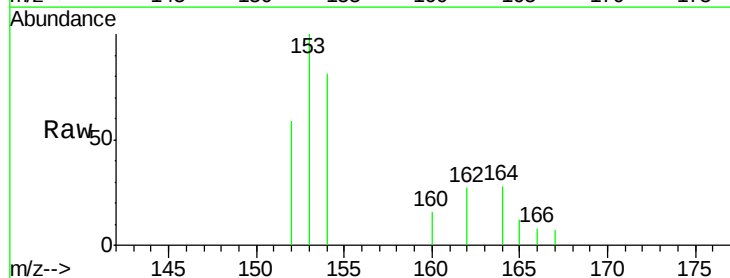
Tgt Ion:153 Resp: 1495

Ion Ratio Lower Upper

153 100

152 59.2 35.8 53.6#

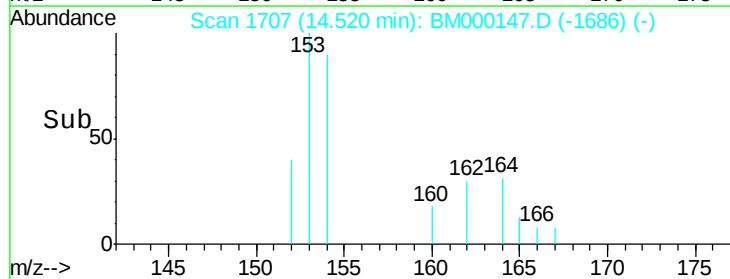
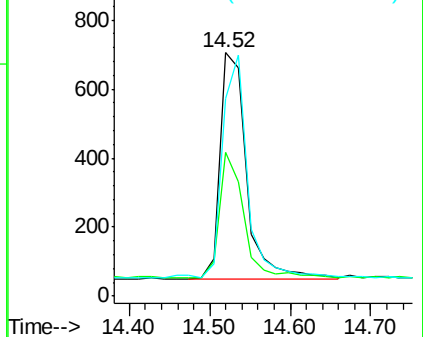
154 81.0 79.9 119.9



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

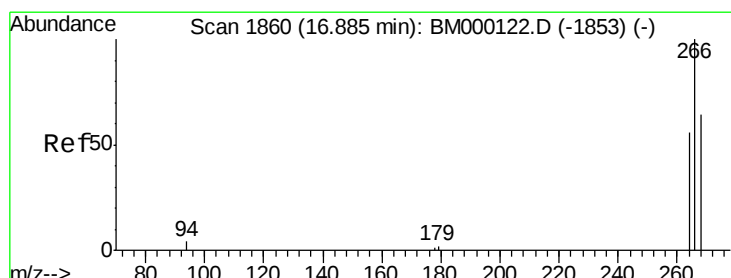
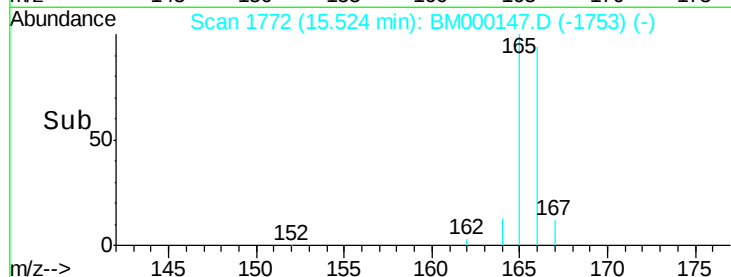
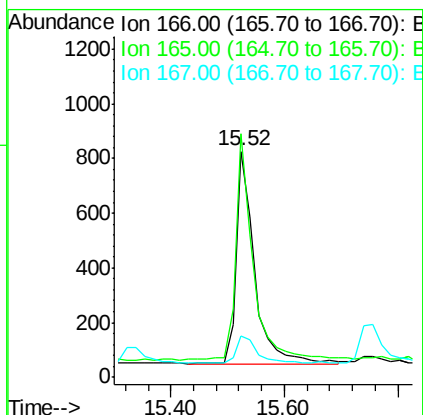
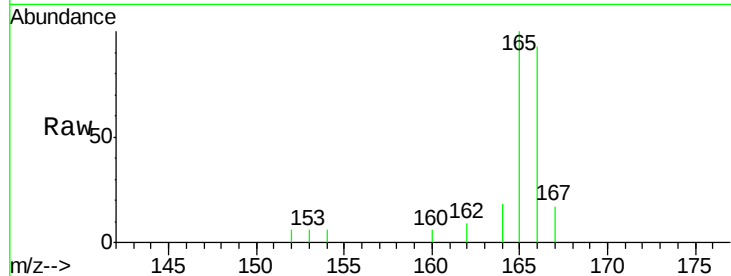
Ion 154.00 (153.70 to 154.70): E





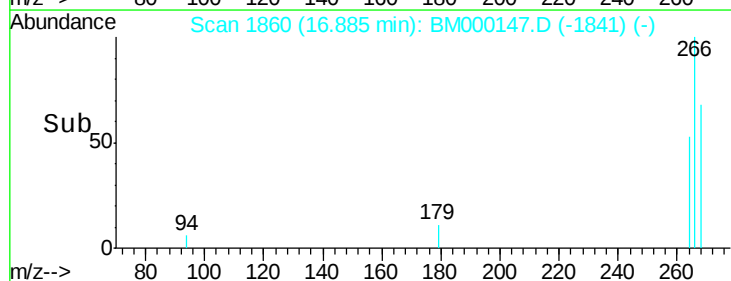
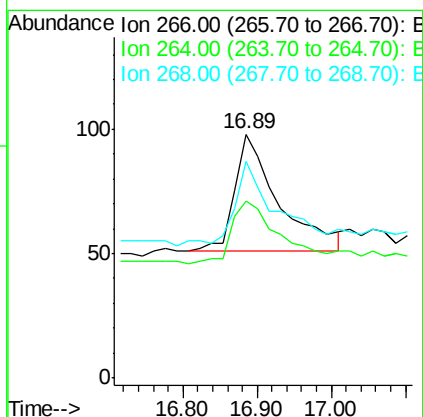
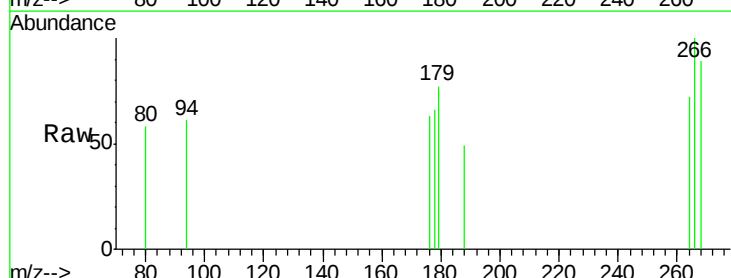
#9  
**Fluorene**  
 Concen: 0.08 ng/ul  
 RT: 15.52 min Scan# 1772  
 Delta R.T. 0.00 min  
 Lab File: BM000147.D  
 Acq: 08 Jan 2015 17:55

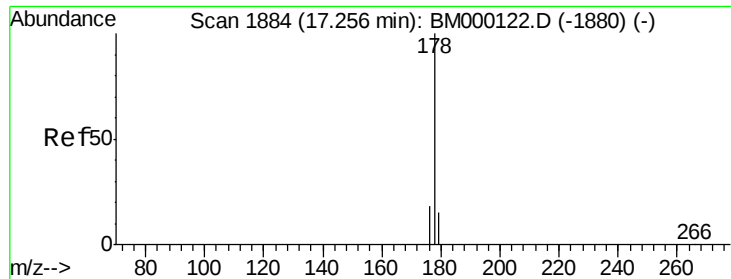
Tgt Ion:166 Resp: 1762  
 Ion Ratio Lower Upper  
 166 100  
 165 107.9 77.0 115.4  
 167 18.5 11.0 16.6#



#11  
**Pentachlorophenol**  
 Concen: 0.10 ng/ul  
 RT: 16.89 min Scan# 1860  
 Delta R.T. 0.00 min  
 Lab File: BM000147.D  
 Acq: 08 Jan 2015 17:55

Tgt Ion:266 Resp: 193  
 Ion Ratio Lower Upper  
 266 100  
 264 58.0 53.9 80.9  
 268 69.9 49.2 73.8





#12

Phenanthrene

Concen: 0.07 ng/ul

RT: 17.26 min Scan# 1884

Delta R.T. 0.00 min

Lab File: BM000147.D

Acq: 08 Jan 2015 17:55

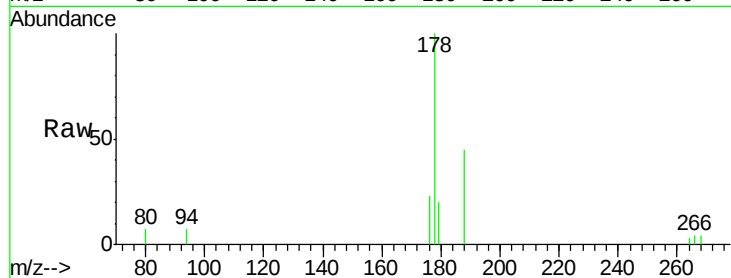
Tgt Ion:178 Resp: 2768

Ion Ratio Lower Upper

178 100

176 23.1 15.1 22.7#

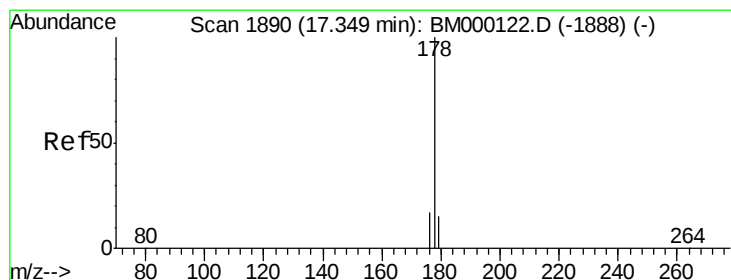
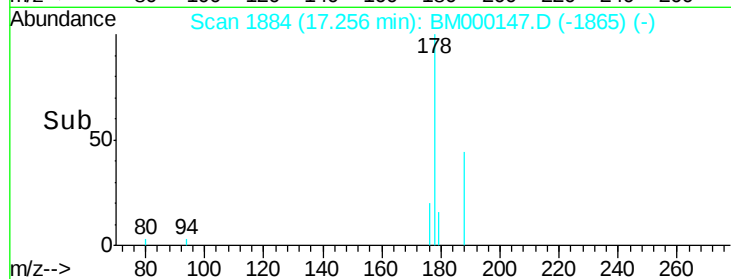
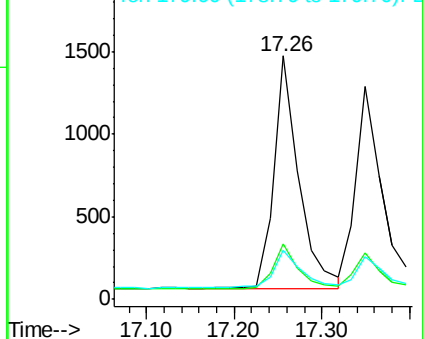
179 20.2 13.0 19.4#



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: 0.08 ng/ul

RT: 17.35 min Scan# 1890

Delta R.T. 0.00 min

Lab File: BM000147.D

Acq: 08 Jan 2015 17:55

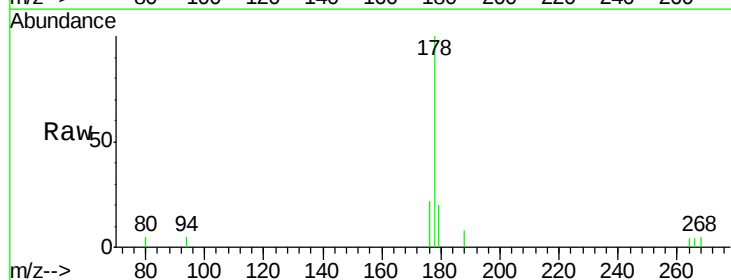
Tgt Ion:178 Resp: 2692

Ion Ratio Lower Upper

178 100

176 21.9 14.6 21.8#

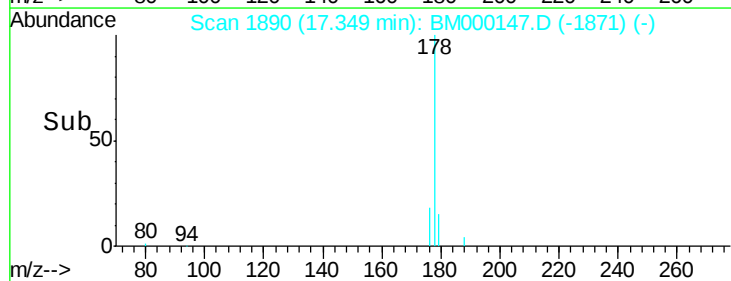
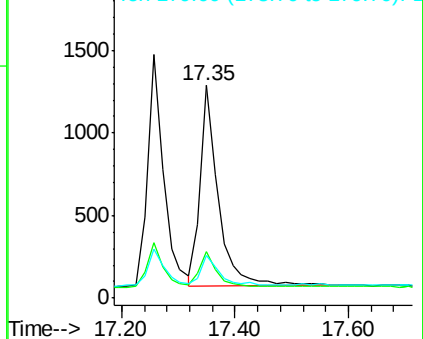
179 20.3 13.1 19.7#

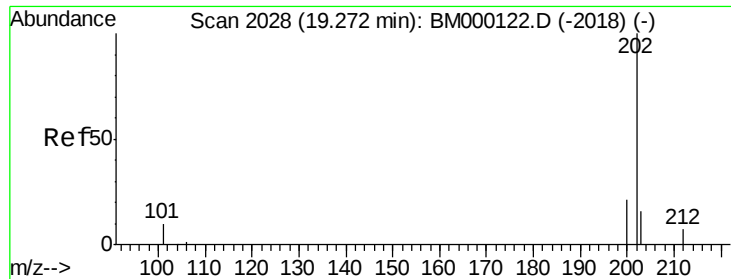


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

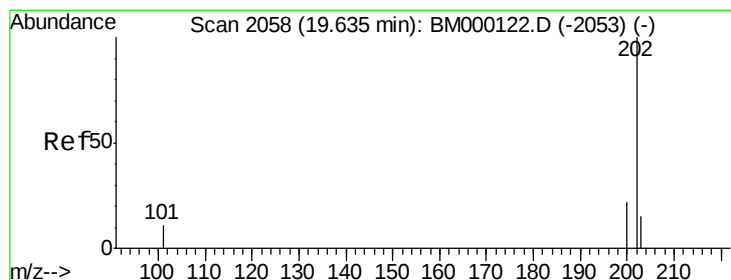
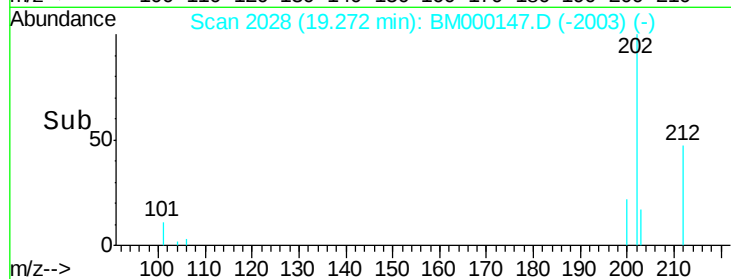
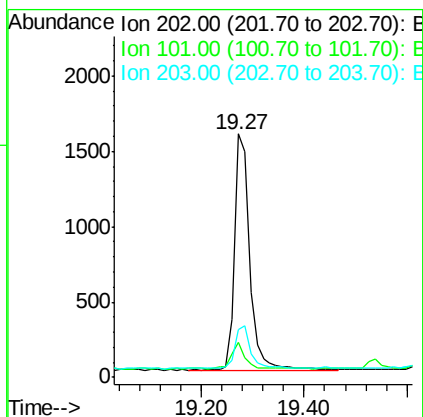
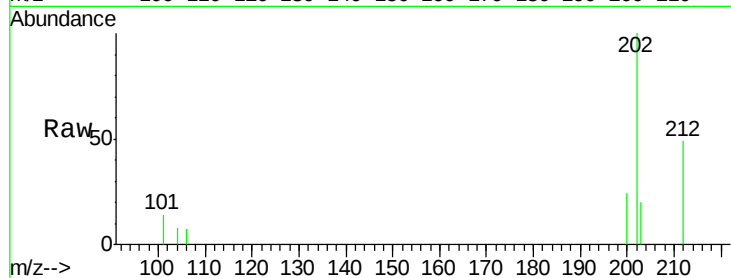
Ion 179.00 (178.70 to 179.70): E





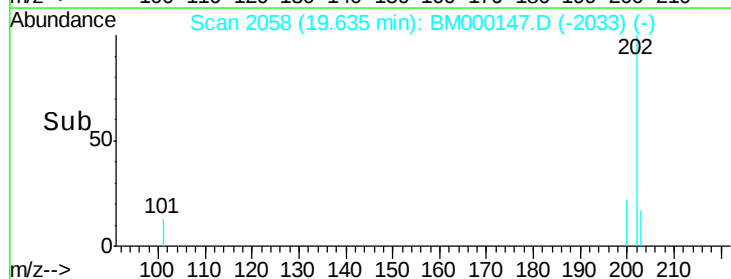
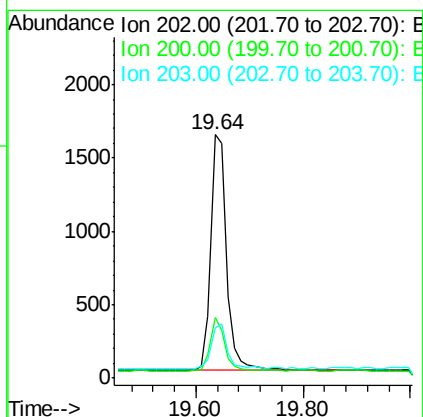
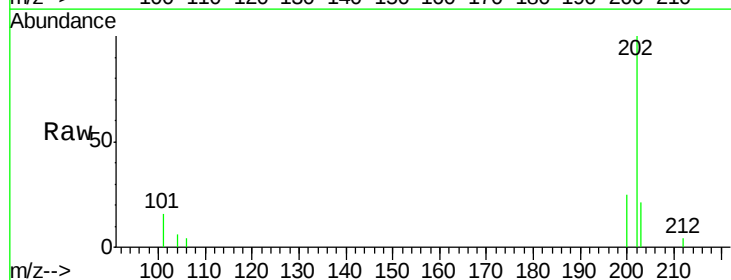
#15  
 Fluoranthene  
 Concen: 0.08 ng/ul  
 RT: 19.27 min Scan# 2028  
 Delta R.T. 0.00 min  
 Lab File: BM000147.D  
 Acq: 08 Jan 2015 17:55

Tgt Ion:202 Resp: 3164  
 Ion Ratio Lower Upper  
 202 100  
 101 14.2 0.0 30.5  
 203 19.6 0.0 36.6



#17  
 Pyrene  
 Concen: 0.08 ng/ul  
 RT: 19.64 min Scan# 2058  
 Delta R.T. 0.00 min  
 Lab File: BM000147.D  
 Acq: 08 Jan 2015 17:55

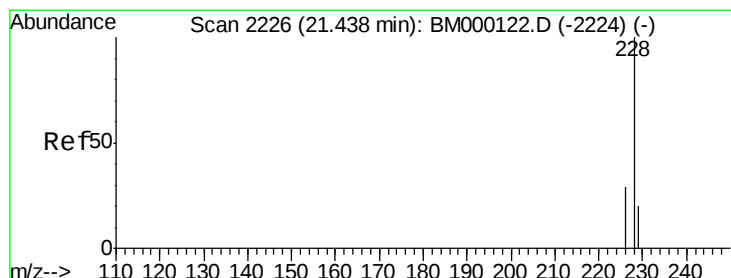
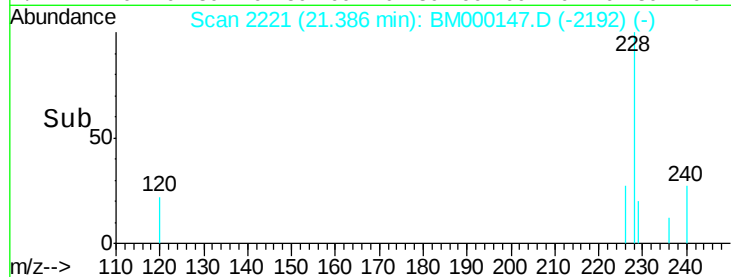
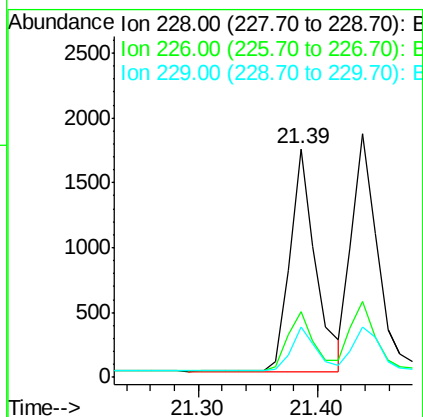
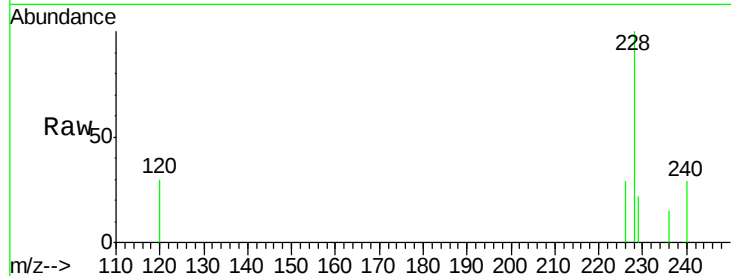
Tgt Ion:202 Resp: 3224  
 Ion Ratio Lower Upper  
 202 100  
 200 24.7 17.9 26.9  
 203 20.6 12.8 19.2#





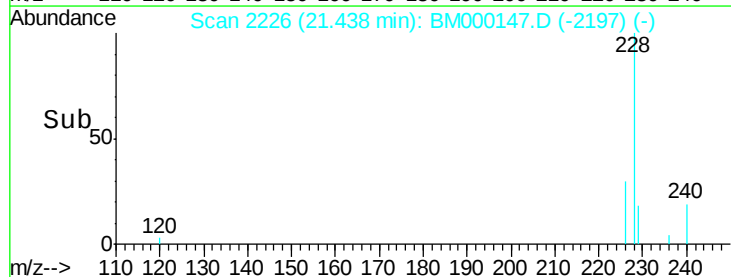
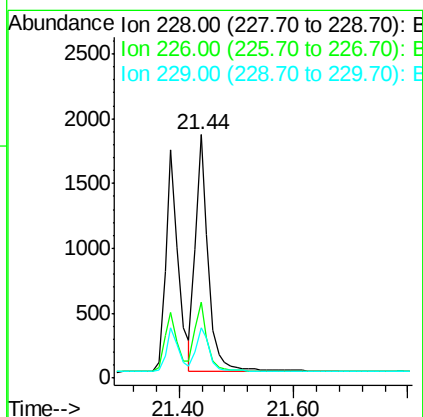
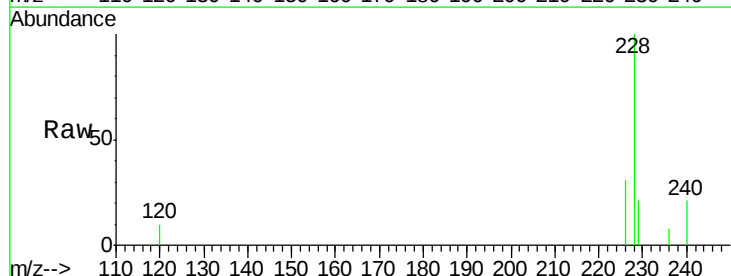
#18  
Benzo(a)anthracene  
Concen: 0.08 ng/ul  
RT: 21.39 min Scan# 2221  
Delta R.T. 0.00 min  
Lab File: BM000147.D  
Acq: 08 Jan 2015 17:55

Tgt Ion:228 Resp: 2576  
Ion Ratio Lower Upper  
228 100  
226 29.0 20.8 31.2  
229 21.8 15.5 23.3



#19  
Chrysene  
Concen: 0.08 ng/ul  
RT: 21.44 min Scan# 2226  
Delta R.T. 0.00 min  
Lab File: BM000147.D  
Acq: 08 Jan 2015 17:55

Tgt Ion:228 Resp: 2864  
Ion Ratio Lower Upper  
228 100  
226 31.4 23.8 35.6  
229 20.6 15.8 23.8





#21

Benzo(b)fluoranthene

Concen: 0.06 ng/ul

RT: 23.00 min Scan# 2376

Delta R.T. 0.00 min

Lab File: BM000147.D

Acq: 08 Jan 2015 17:55

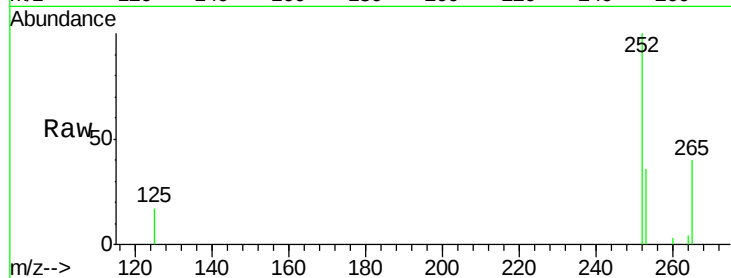
Tgt Ion: 252 Resp: 2943

Ion Ratio Lower Upper

252 100

253 36.4 0.0 48.2

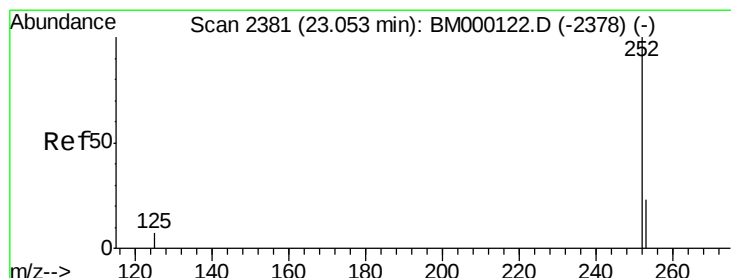
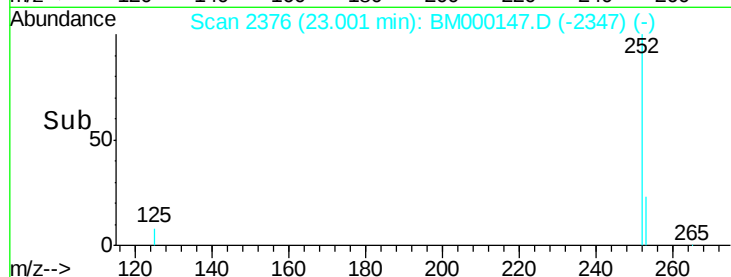
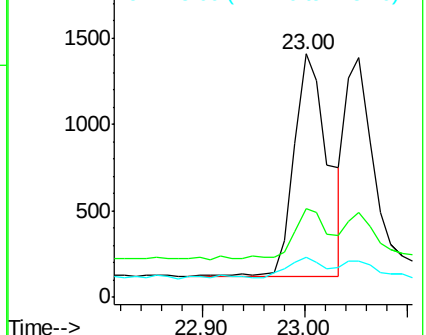
125 16.5 0.0 21.6



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



#22

Benzo(k)fluoranthene

Concen: 0.06 ng/ul

RT: 23.05 min Scan# 2381

Delta R.T. 0.00 min

Lab File: BM000147.D

Acq: 08 Jan 2015 17:55

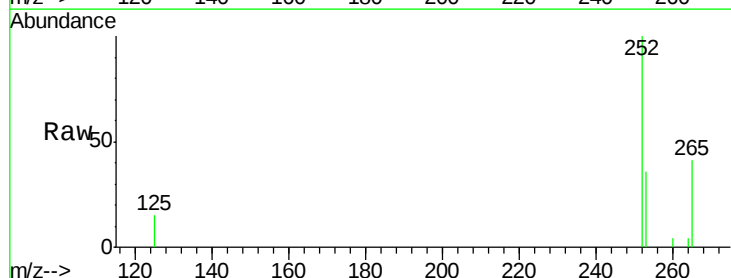
Tgt Ion: 252 Resp: 2618

Ion Ratio Lower Upper

252 100

253 35.6 20.5 30.7#

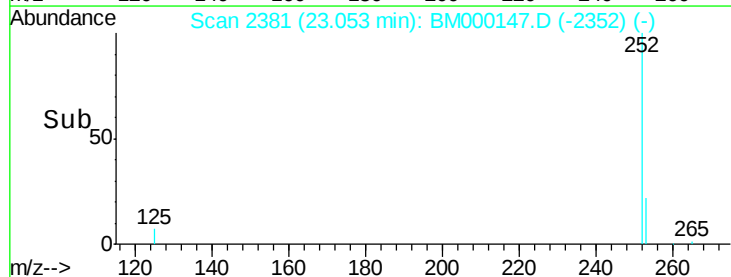
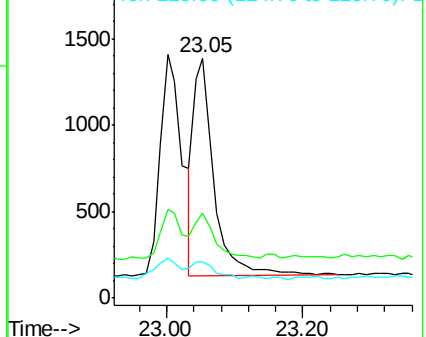
125 15.0 7.8 11.8#

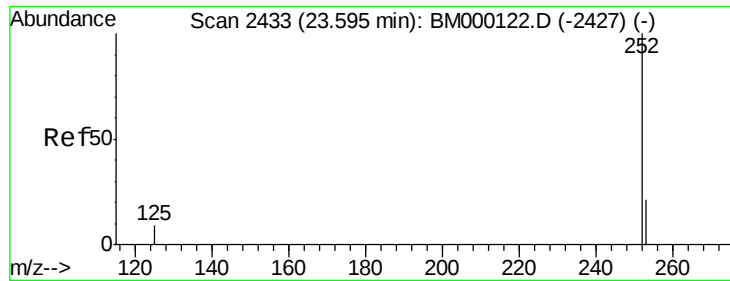


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 0.06 ng/ul

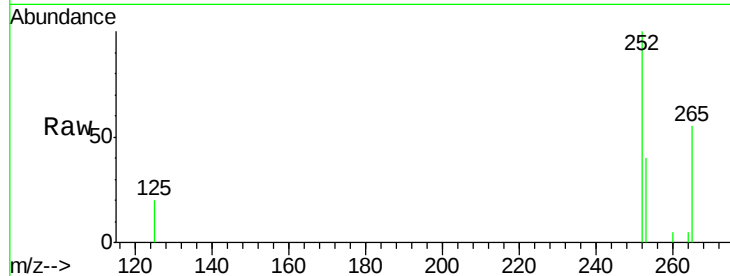
RT: 23.60 min Scan# 2433

Delta R.T. 0.00 min

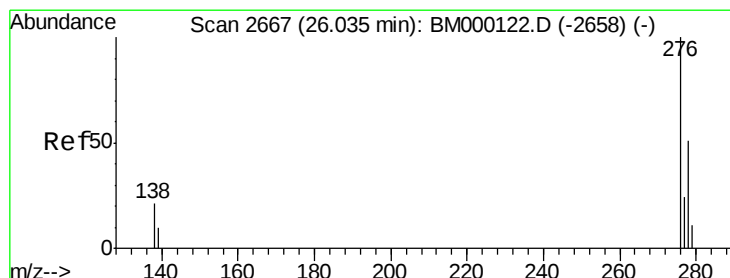
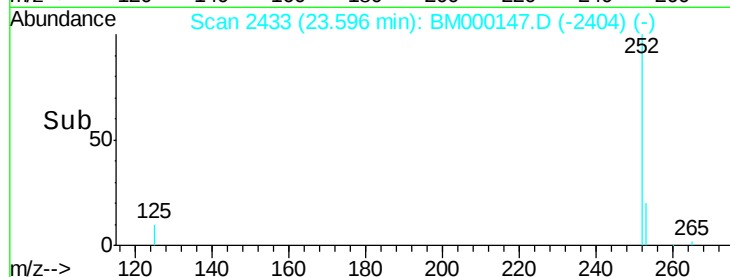
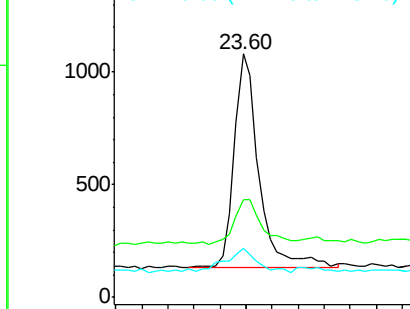
Lab File: BM000147.D

Acq: 08 Jan 2015 17:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 2516  |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 40.1  | 19.8  | 29.6# |
| 125      | 20.3  | 9.2   | 13.8# |



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: 0.06 ng/ul

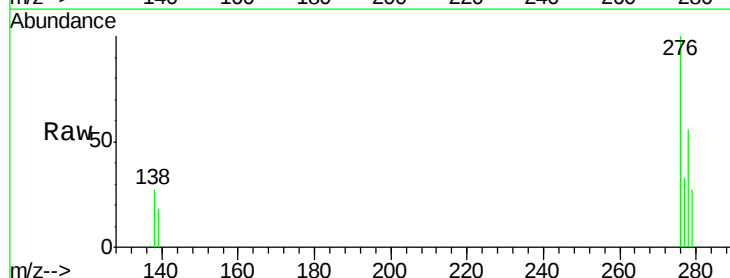
RT: 26.05 min Scan# 2668

Delta R.T. 0.01 min

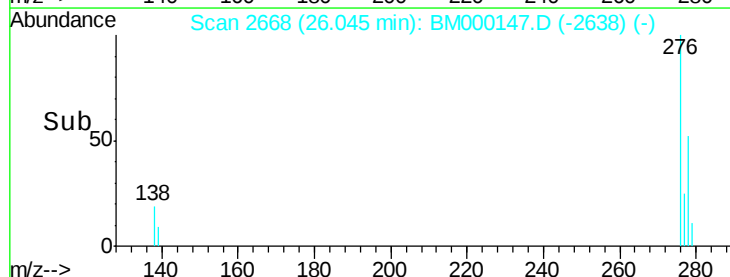
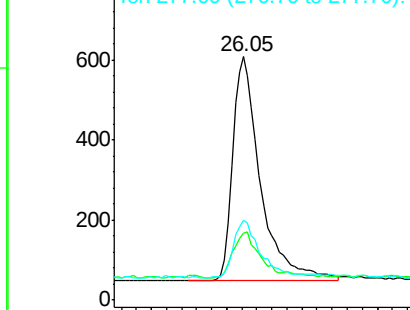
Lab File: BM000147.D

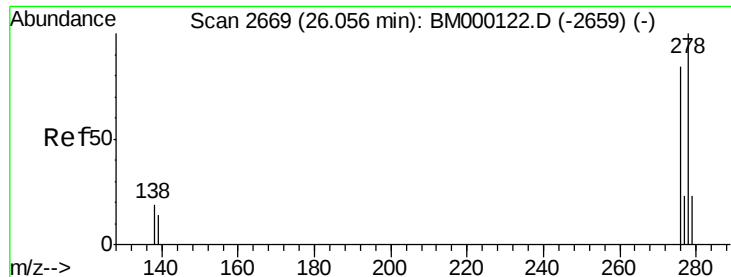
Acq: 08 Jan 2015 17:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 2889  |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 138      | 21.5  | 17.6  | 26.4  |
| 277      | 24.1  | 19.9  | 29.9  |



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





#25

Dibenzo(a,h)anthracene

Concen: 0.06 ng/ul

RT: 26.07 min Scan# 2670

Delta R.T. 0.01 min

Lab File: BM000147.D

Acq: 08 Jan 2015 17:55

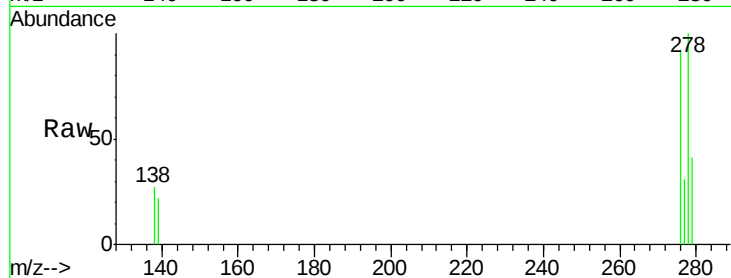
Tgt Ion: 278 Resp: 2244

Ion Ratio Lower Upper

278 100

139 22.3 12.6 18.8#

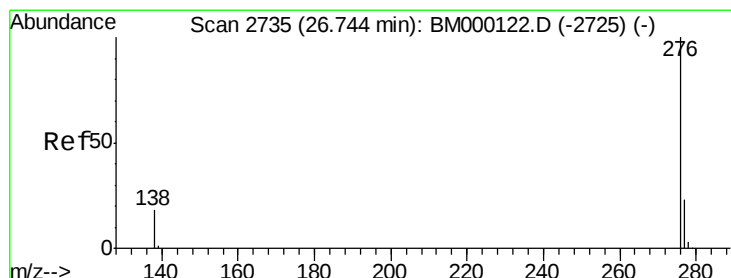
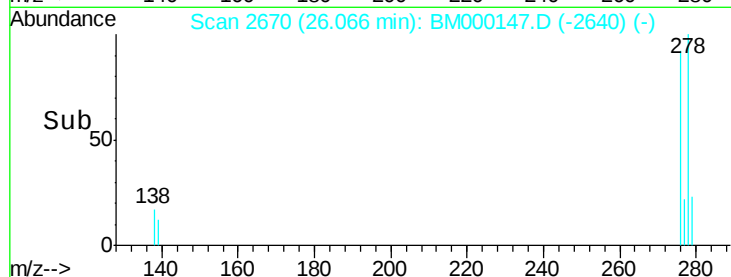
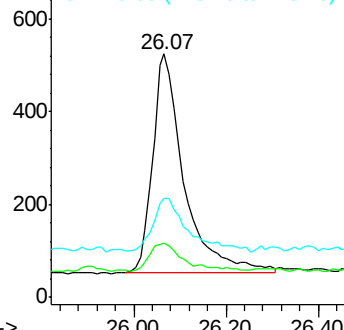
279 40.8 20.6 30.8#



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



#26

Benzo(g,h,i)perylene

Concen: 0.06 ng/ul

RT: 26.74 min Scan# 2735

Delta R.T. 0.00 min

Lab File: BM000147.D

Acq: 08 Jan 2015 17:55

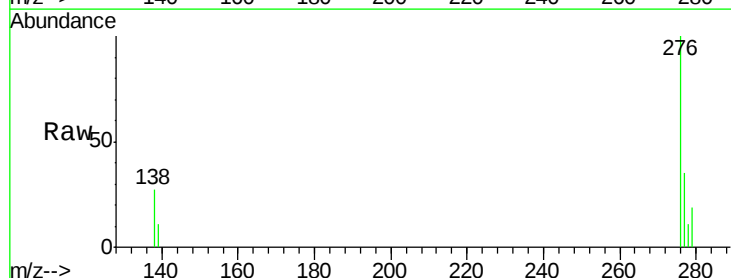
Tgt Ion: 276 Resp: 2585

Ion Ratio Lower Upper

276 100

277 34.6 20.0 30.0#

138 26.8 15.7 23.5#



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

