

Data Path : Z:\HPCHEM1\BNA\_M\Data\BM010715\  
 Data File : BM000144.D  
 Acq On : 08 Jan 2015 02:29  
 Operator : TP/IZ  
 Sample : MDL-01-W  
 Misc : MDL-WATER-0.15PPM-SIM  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DFTPP05

Quant Time: Jan 08 04:13:54 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 02:20:43 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.84  | 152  | 3053     | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.64 | 136  | 10342    | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.47 | 164  | 6738     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.23 | 188  | 12687    | 0.40 | ng/ul | 0.02     |
| 16) Chrysene-d12          | 21.41 | 240  | 10837    | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.70 | 264  | 12170    | 0.40 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 12.22 | 152  | 4372     | 0.32 | ng/ul | 0.00     |
| 14) Fluoranthene-d10        | 19.25 | 212  | 6863     | 0.25 | ng/ul | 0.00     |

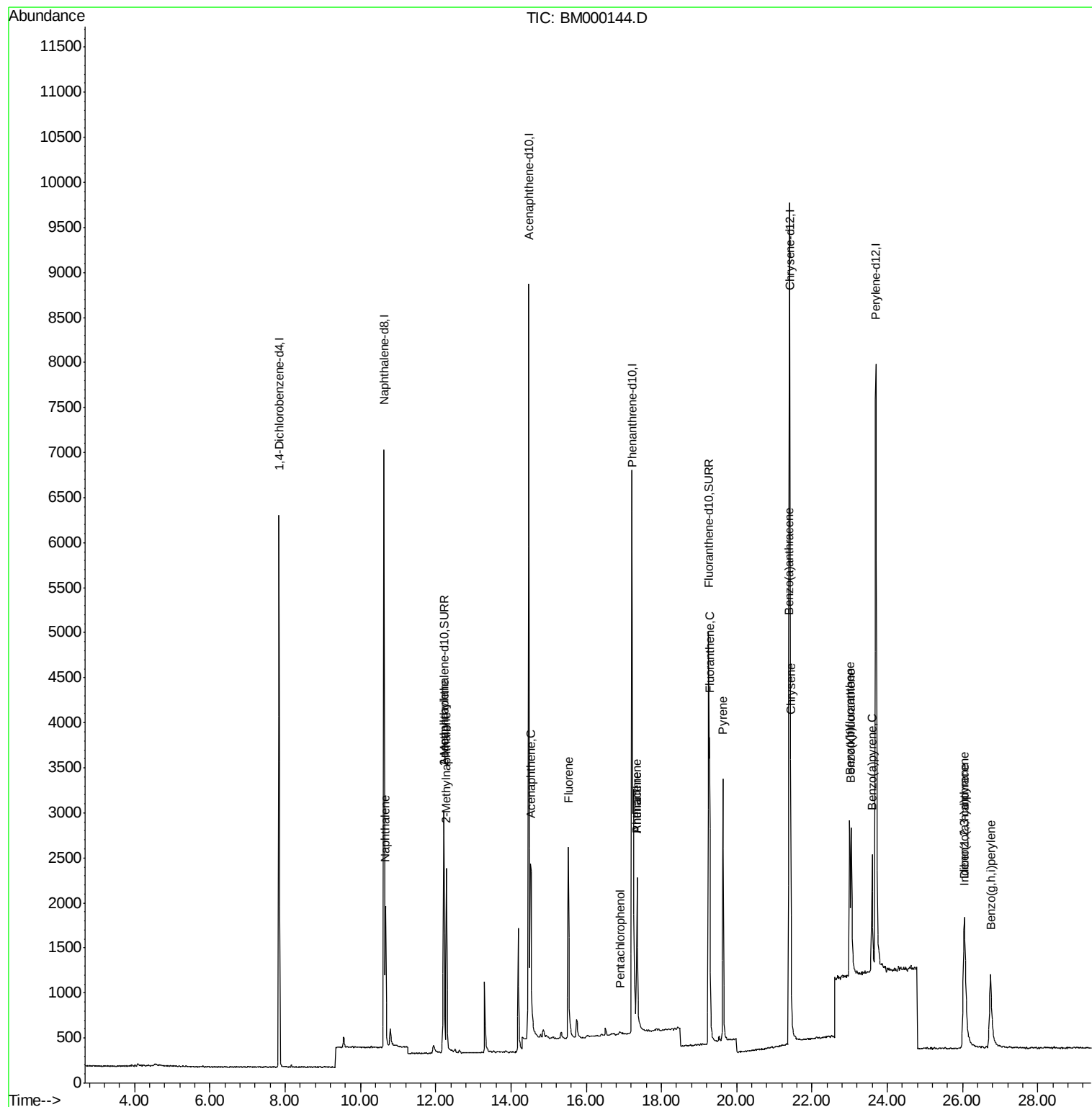
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) Naphthalene             | 10.67 | 128  | 2381     | 0.09 | ng/ul# | 93     |
| 5) 2-Methylnaphthalene     | 12.28 | 142  | 1510     | 0.08 | ng/ul  | 95     |
| 7) Acenaphthylene          | 12.22 | 152  | 4372     | 0.29 | ng/ul  | 99     |
| 8) Acenaphthene            | 14.52 | 153  | 1609     | 0.08 | ng/ul# | 80     |
| 9) Fluorene                | 15.52 | 166  | 1876     | 0.08 | ng/ul# | 94     |
| 11) Pentachlorophenol      | 16.90 | 266  | 79       | 0.04 | ng/ul  | 89     |
| 12) Phenanthrene           | 17.35 | 178  | 2673     | 0.07 | ng/ul  | 93     |
| 13) Anthracene             | 17.35 | 178  | 2777     | 0.08 | ng/ul# | 92     |
| 15) Fluoranthene           | 19.27 | 202  | 3380     | 0.08 | ng/ul  | 96     |
| 17) Pyrene                 | 19.64 | 202  | 3485     | 0.08 | ng/ul  | 96     |
| 18) Benzo(a)anthracene     | 21.39 | 228  | 2613     | 0.07 | ng/ul  | 97     |
| 19) Chrysene               | 21.44 | 228  | 3118     | 0.08 | ng/ul  | 97     |
| 21) Benzo(b)fluoranthene   | 23.00 | 252  | 2715     | 0.06 | ng/ul  | 81     |
| 22) Benzo(k)fluoranthene   | 23.04 | 252  | 2945     | 0.06 | ng/ul# | 82     |
| 23) Benzo(a)pyrene         | 23.60 | 252  | 2721     | 0.06 | ng/ul# | 72     |
| 24) Indeno(1,2,3-cd)pyrene | 26.03 | 276  | 2950     | 0.06 | ng/ul  | 98     |
| 25) Dibenzo(a,h)anthracene | 26.06 | 278  | 2408     | 0.06 | ng/ul# | 76     |
| 26) Benzo(g,h,i)perylene   | 26.74 | 276  | 2706     | 0.06 | ng/ul# | 85     |

(#) = 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: BM000144.D

Acq: 08 Jan 2015 02:29

Instrument :

BNA\_M

ClientSampleId :

DFTPP05

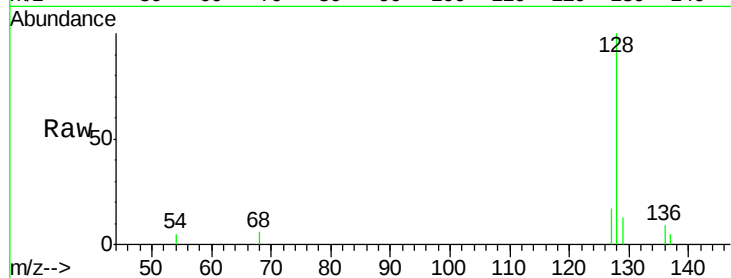
Tgt Ion:128 Resp: 2381

Ion Ratio Lower Upper

128 100

129 13.5 9.5 14.3

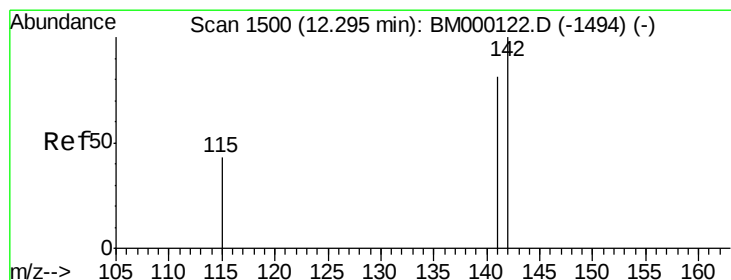
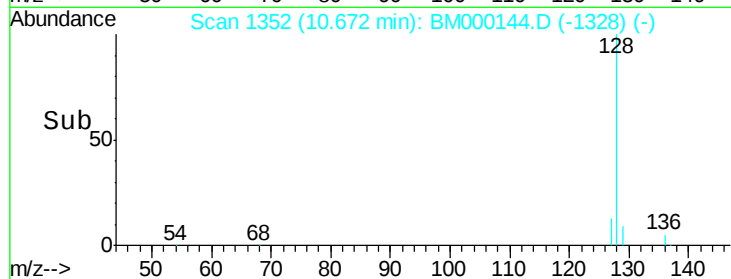
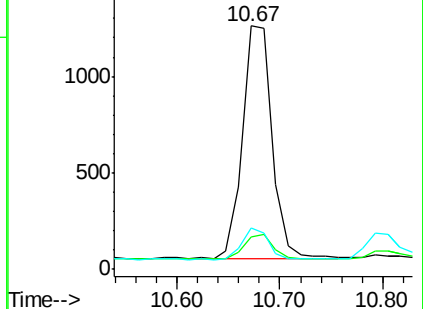
127 16.9 10.4 15.6#



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: BM000144.D

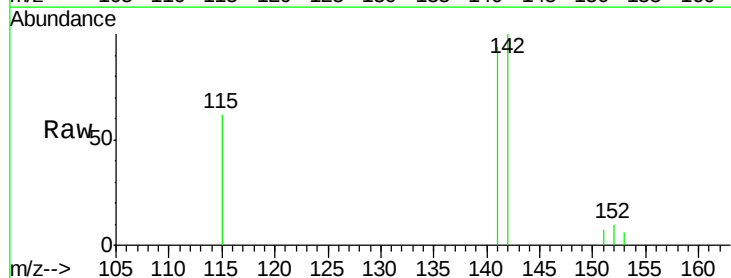
Acq: 08 Jan 2015 02:29

Tgt Ion:142 Resp: 1510

Ion Ratio Lower Upper

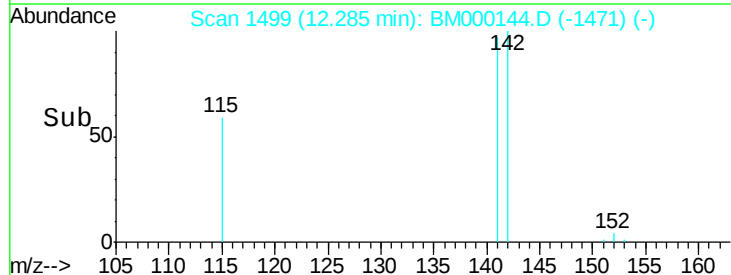
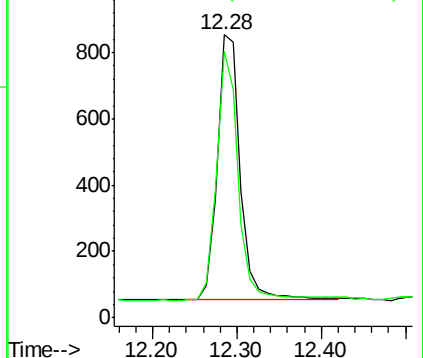
142 100

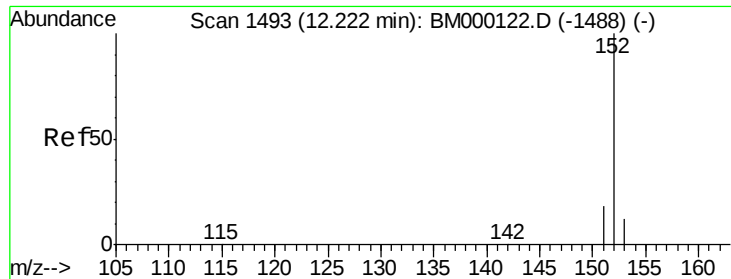
141 91.0 68.9 103.3



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.29 ng/ul

RT: 12.22 min Scan# 1493

Delta R.T. 0.00 min

Lab File: BM000144.D

Acq: 08 Jan 2015 02:29

Instrument :

BNA\_M

ClientSampleId :

DFTPP05

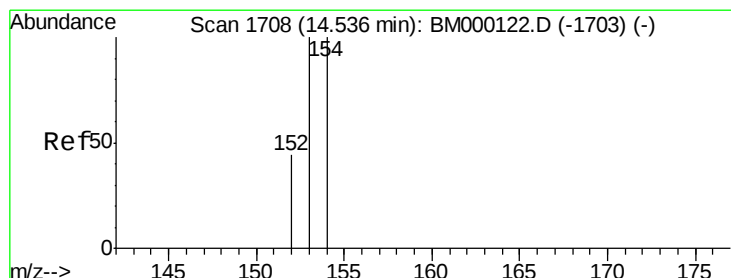
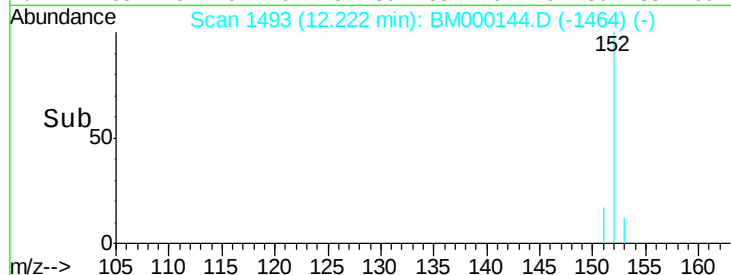
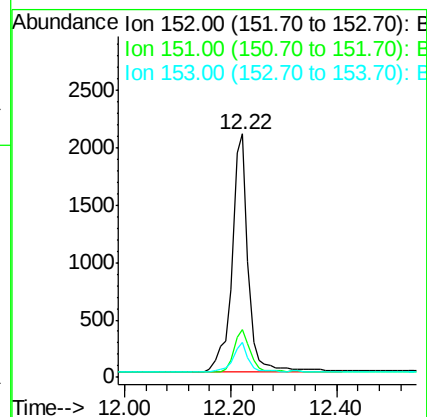
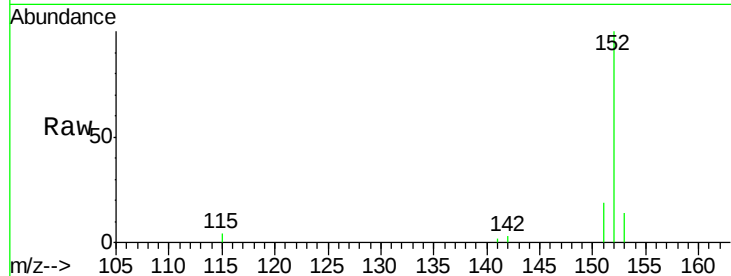
Tgt Ion:152 Resp: 4372

Ion Ratio Lower Upper

152 100

151 19.4 15.4 23.2

153 14.2 11.0 16.4



#8

Acenaphthene

Concen: 0.08 ng/ul

RT: 14.52 min Scan# 1707

Delta R.T. -0.02 min

Lab File: BM000144.D

Acq: 08 Jan 2015 02:29

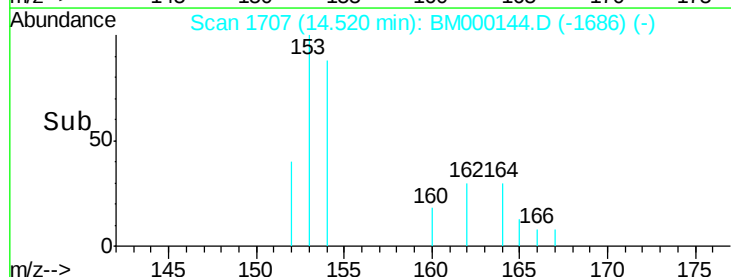
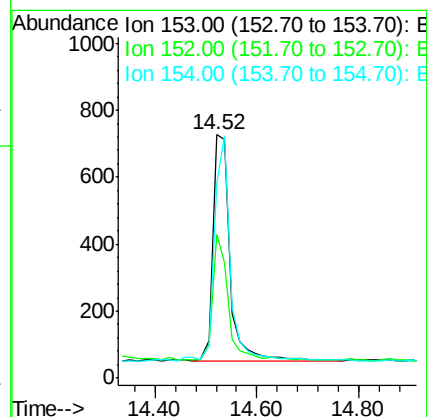
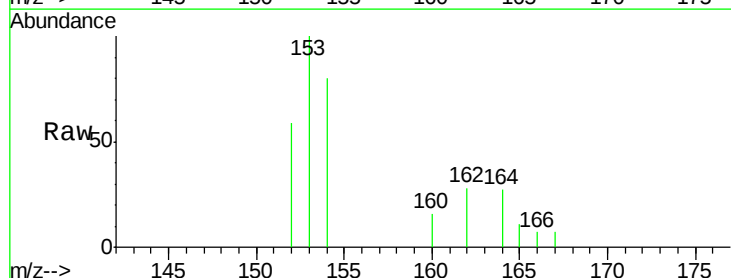
Tgt Ion:153 Resp: 1609

Ion Ratio Lower Upper

153 100

152 58.9 35.8 53.6#

154 80.1 79.9 119.9

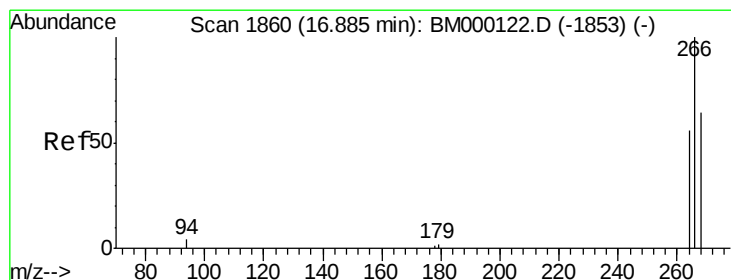
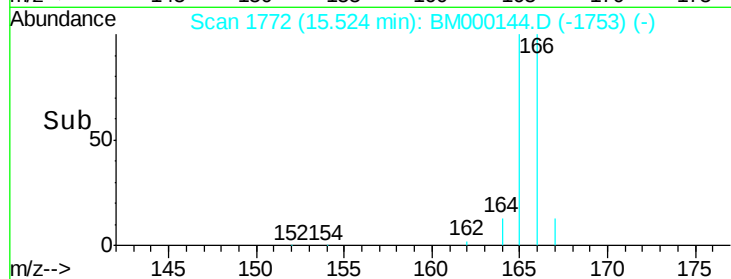
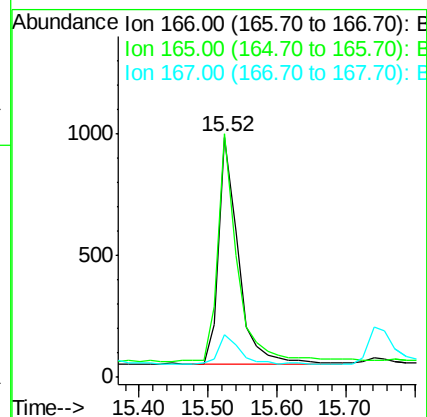
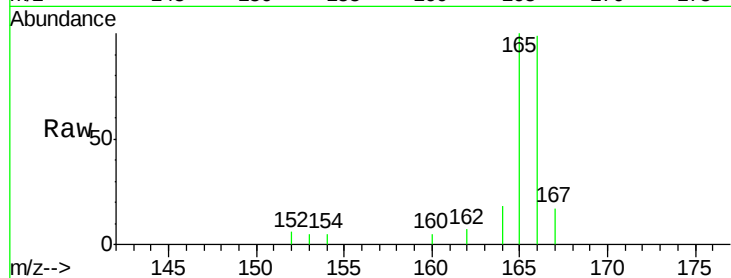




#9  
**Fluorene**  
 Concen: 0.08 ng/ul  
 RT: 15.52 min Scan# 1772  
 Delta R.T. 0.00 min  
 Lab File: BM000144.D  
 Acq: 08 Jan 2015 02:29

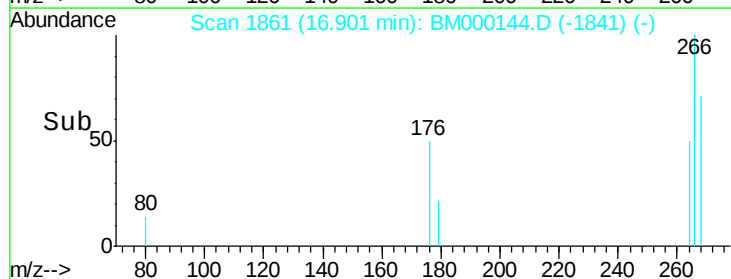
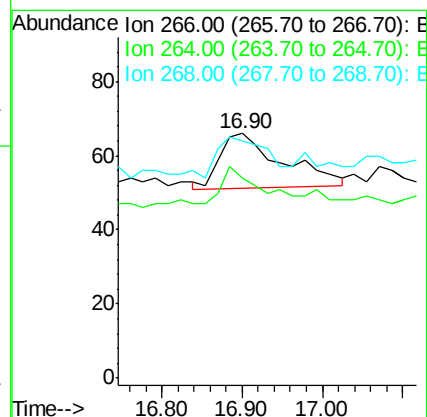
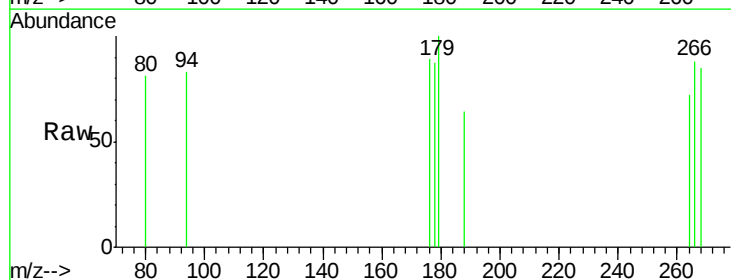
Instrument :  
 BNA\_M  
 ClientSampleId :  
 DFTPP05

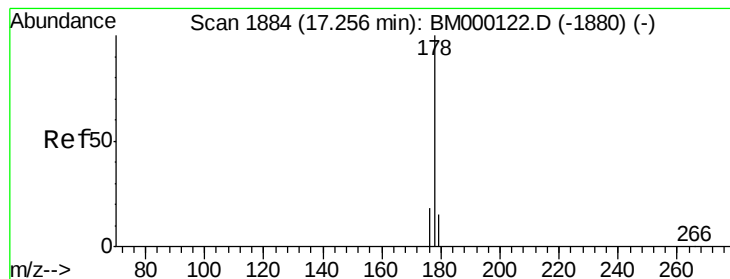
Tgt Ion:166 Resp: 1876  
 Ion Ratio Lower Upper  
 166 100  
 165 101.5 77.0 115.4  
 167 17.7 11.0 16.6#



#11  
**Pentachlorophenol**  
 Concen: 0.04 ng/ul  
 RT: 16.90 min Scan# 1861  
 Delta R.T. 0.02 min  
 Lab File: BM000144.D  
 Acq: 08 Jan 2015 02:29

Tgt Ion:266 Resp: 79  
 Ion Ratio Lower Upper  
 266 100  
 264 58.2 53.9 80.9  
 268 53.2 49.2 73.8





#12

Phenanthrene

Concen: 0.07 ng/ul

RT: 17.35 min Scan# 1890

Delta R.T. 0.09 min

Lab File: BM000144.D

Acq: 08 Jan 2015 02:29

Instrument :

BNA\_M

ClientSampleId :

DFTPP05

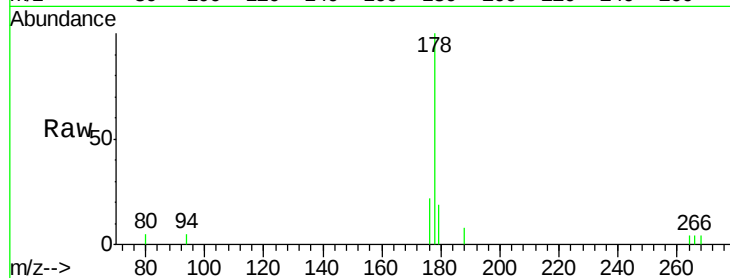
Tgt Ion:178 Resp: 2673

Ion Ratio Lower Upper

178 100

176 22.3 15.1 22.7

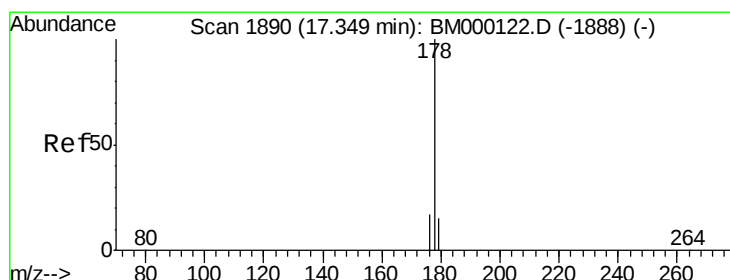
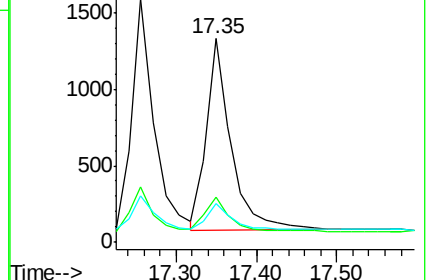
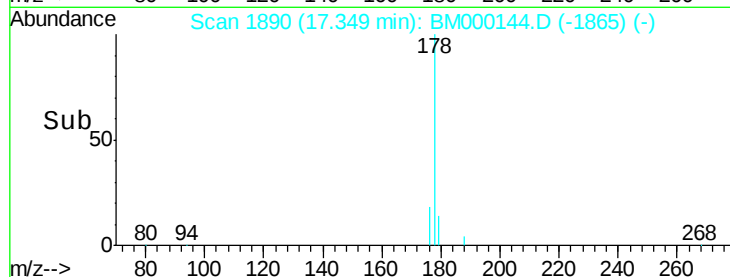
179 18.9 13.0 19.4



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: BM000144.D

Acq: 08 Jan 2015 02:29

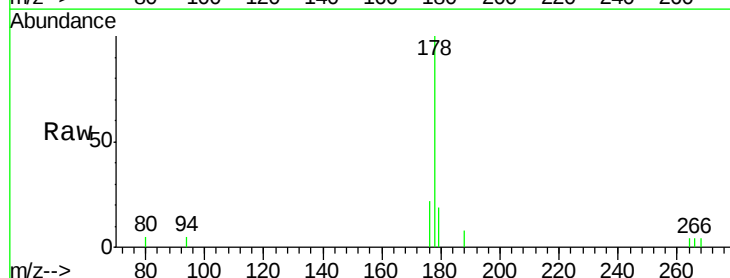
Tgt Ion:178 Resp: 2777

Ion Ratio Lower Upper

178 100

176 22.3 14.6 21.8#

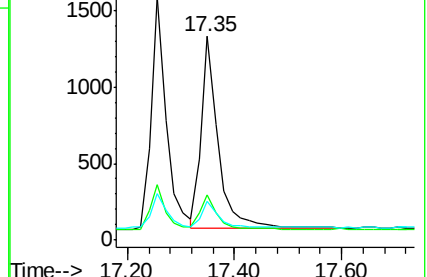
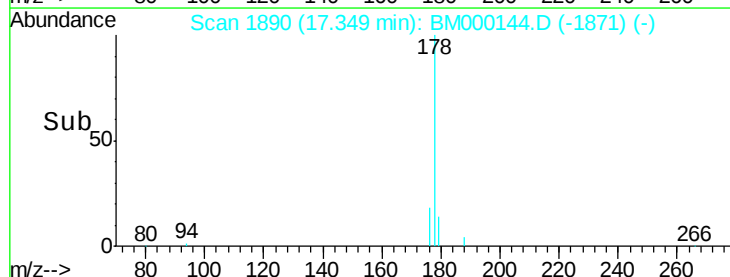
179 18.9 13.1 19.7

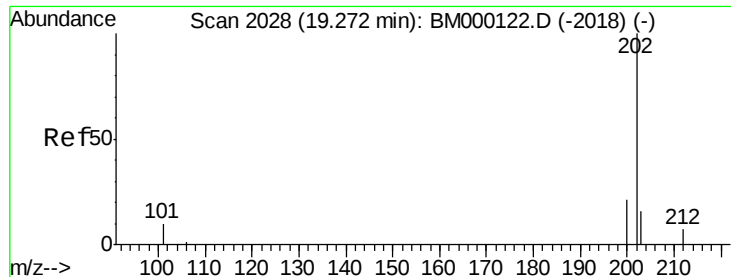


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 0.08 ng/u1

RT: 19.27 min Scan# 2028

Delta R.T. 0.00 min

Lab File: BM000144.D

Acq: 08 Jan 2015 02:29

Instrument :

BNA\_M

ClientSampleId :

DFTPP05

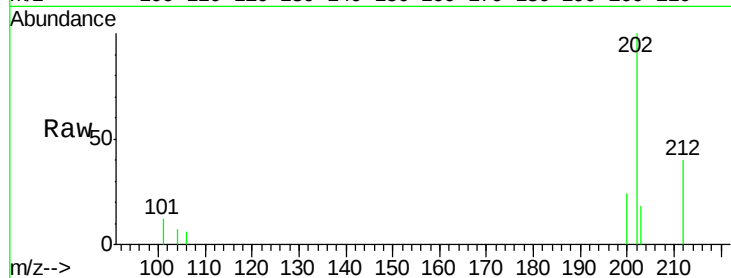
Tgt Ion:202 Resp: 3380

Ion Ratio Lower Upper

202 100

101 12.2 0.0 30.5

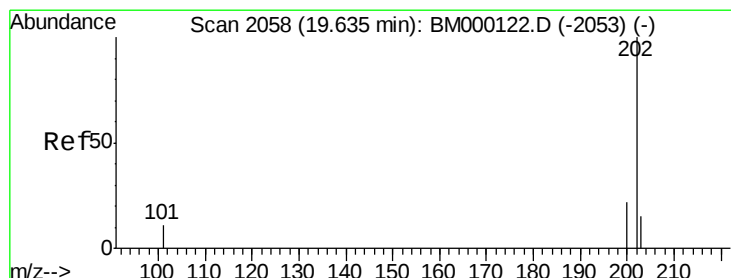
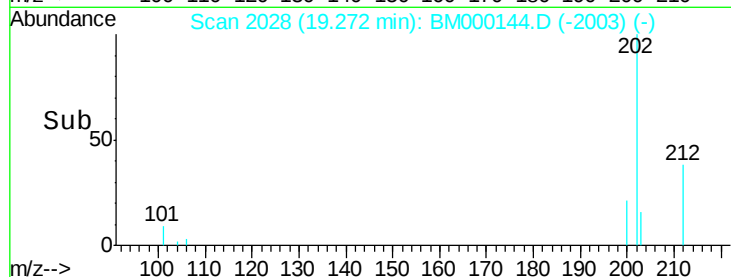
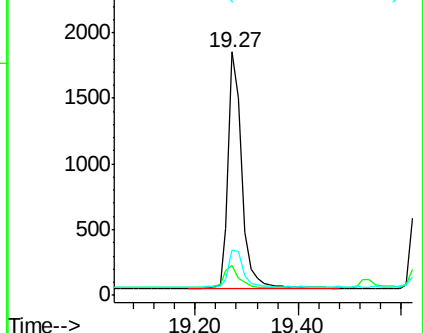
203 18.4 0.0 36.6



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



#17

Pyrene

Concen: 0.08 ng/u1

RT: 19.64 min Scan# 2058

Delta R.T. 0.00 min

Lab File: BM000144.D

Acq: 08 Jan 2015 02:29

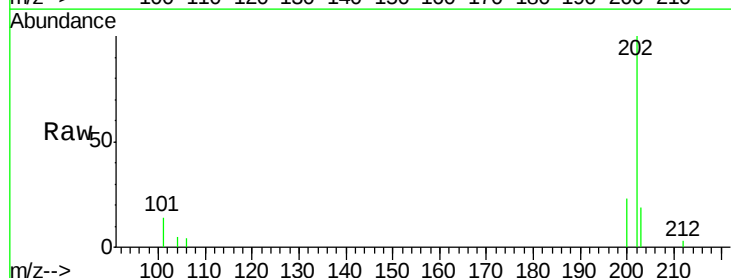
Tgt Ion:202 Resp: 3485

Ion Ratio Lower Upper

202 100

200 23.3 17.9 26.9

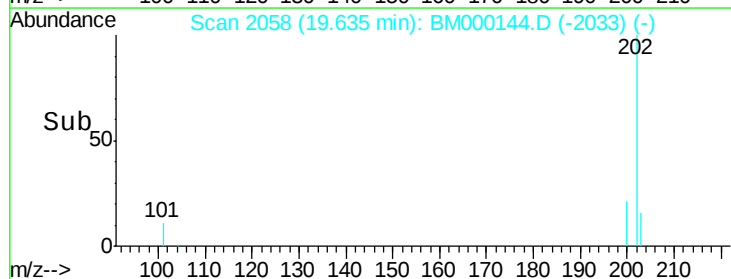
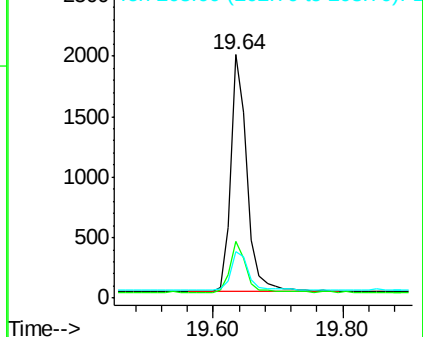
203 19.1 12.8 19.2



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





#18

Benzo(a)anthracene

Concen: 0.07 ng/ul

RT: 21.39 min Scan# 2221

Delta R.T. 0.00 min

Lab File: BM000144.D

Acq: 08 Jan 2015 02:29

Instrument :

BNA\_M

ClientSampleId :

DFTPP05

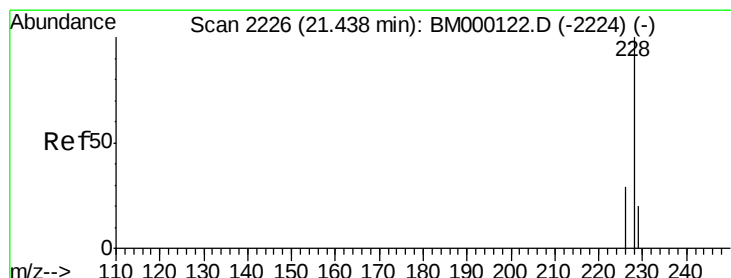
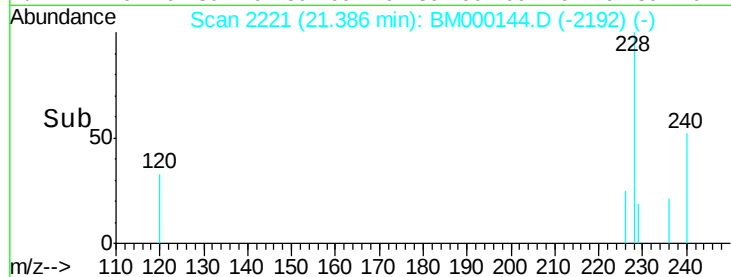
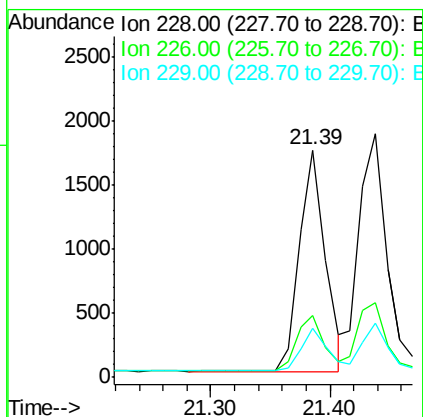
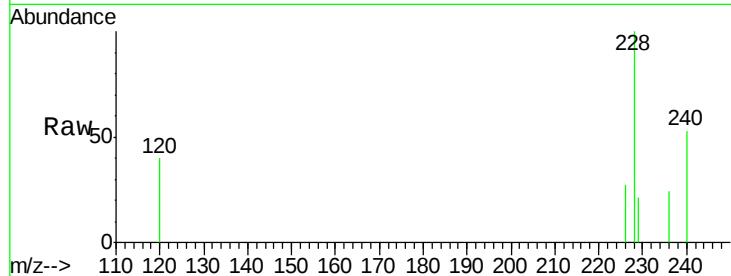
Tgt Ion:228 Resp: 2613

Ion Ratio Lower Upper

228 100

226 27.1 20.8 31.2

229 21.4 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: BM000144.D

Acq: 08 Jan 2015 02:29

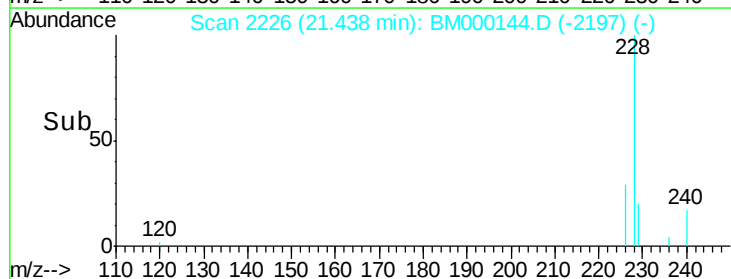
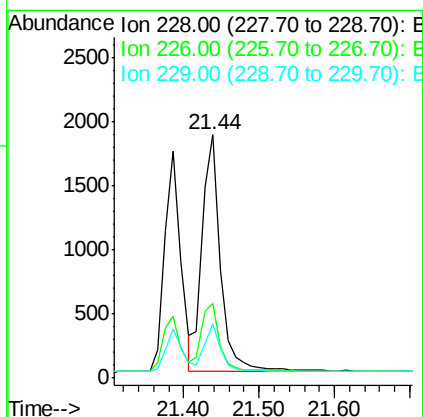
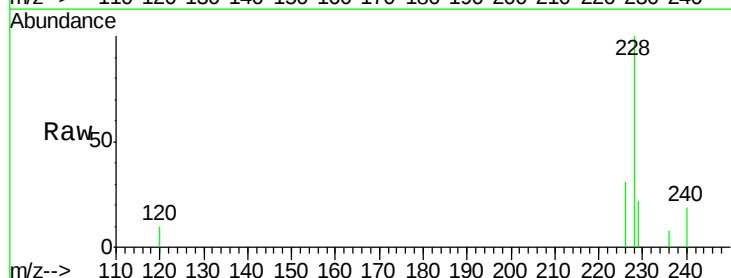
Tgt Ion:228 Resp: 3118

Ion Ratio Lower Upper

228 100

226 30.6 23.8 35.6

229 22.1 15.8 23.8





#21

Benzo(b)fluoranthene

Concen: 0.06 ng/u1

RT: 23.00 min Scan# 2376

Delta R.T. 0.00 min

Lab File: BM000144.D

Acq: 08 Jan 2015 02:29

Instrument :

BNA\_M

ClientSampleId :

DFTPP05

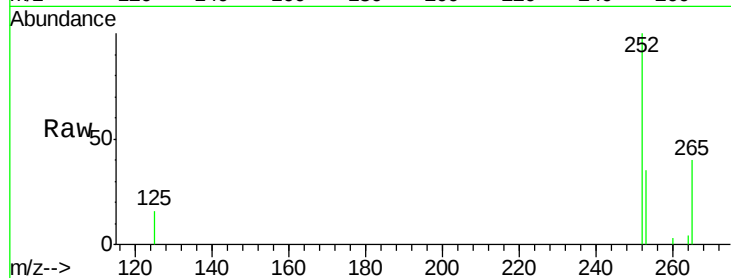
Tgt Ion:252 Resp: 2715

Ion Ratio Lower Upper

252 100

253 34.6 0.0 48.2

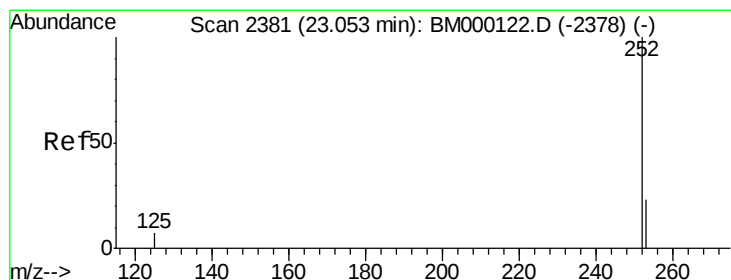
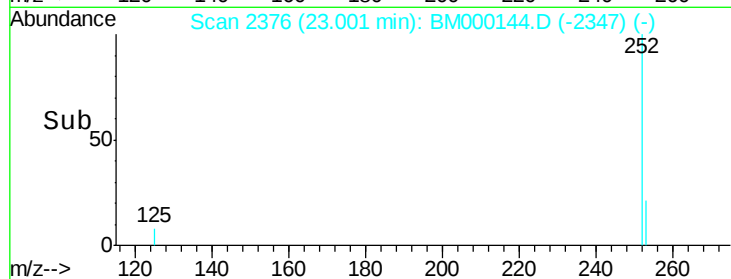
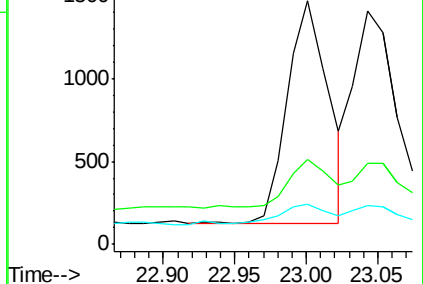
125 16.3 0.0 21.6



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/u1

RT: 23.04 min Scan# 2380

Delta R.T. -0.01 min

Lab File: BM000144.D

Acq: 08 Jan 2015 02:29

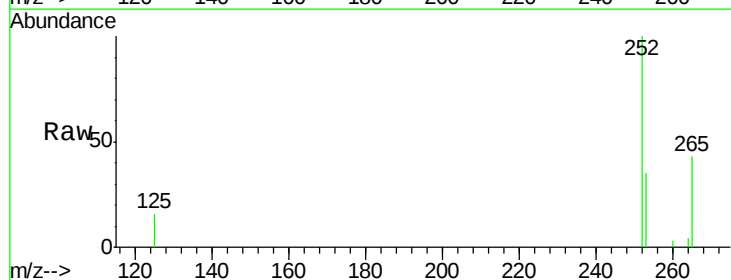
Tgt Ion:252 Resp: 2945

Ion Ratio Lower Upper

252 100

253 34.6 20.5 30.7#

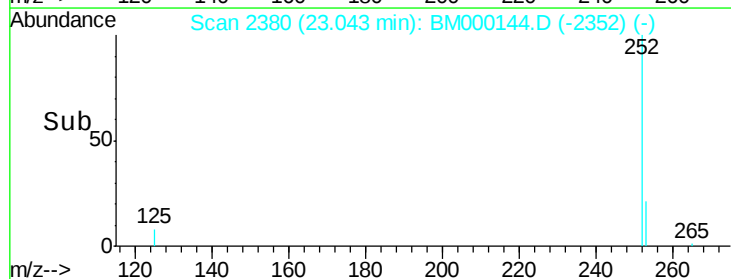
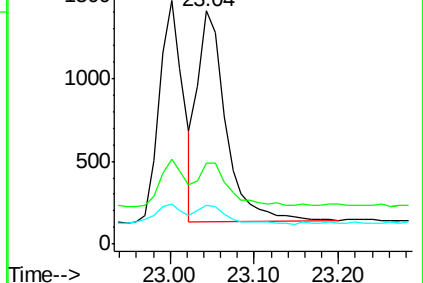
125 16.5 7.8 11.8#



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: BM000144.D

Acq: 08 Jan 2015 02:29

Instrument :

BNA\_M

ClientSampleId :

DFTPP05

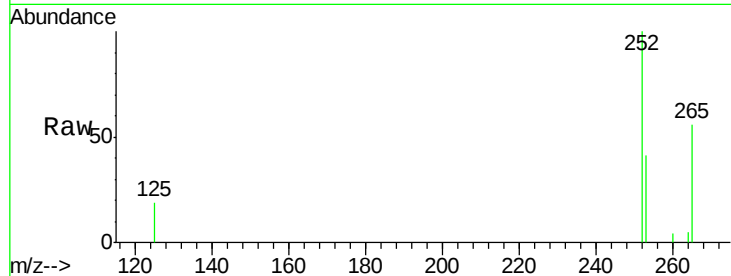
Tgt Ion: 252 Resp: 2721

Ion Ratio Lower Upper

252 100

253 40.9 19.8 29.6#

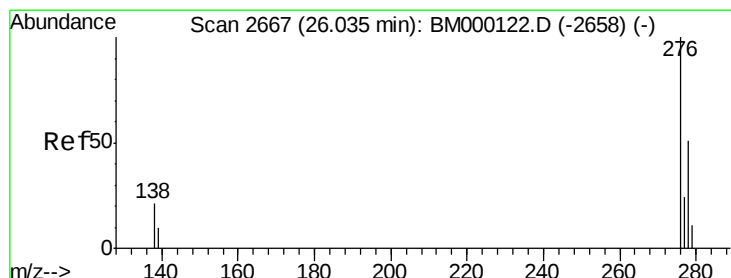
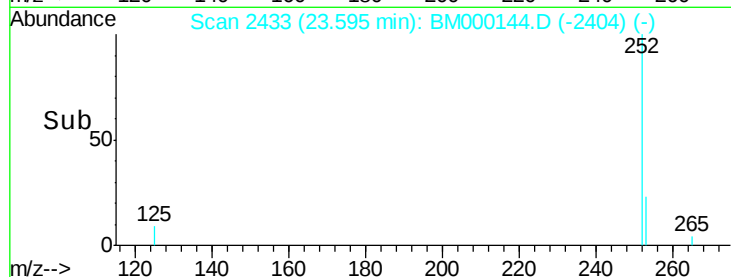
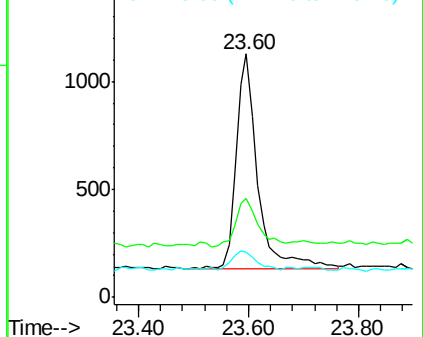
125 18.8 9.2 13.8#



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: 26.03 min Scan# 2667

Delta R.T. 0.00 min

Lab File: BM000144.D

Acq: 08 Jan 2015 02:29

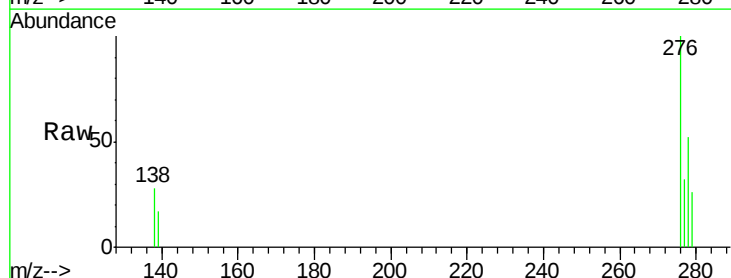
Tgt Ion: 276 Resp: 2950

Ion Ratio Lower Upper

276 100

138 23.0 17.6 26.4

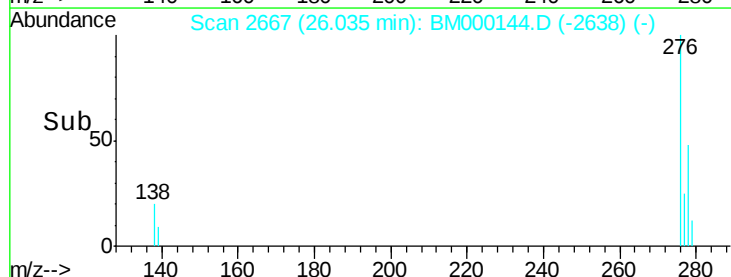
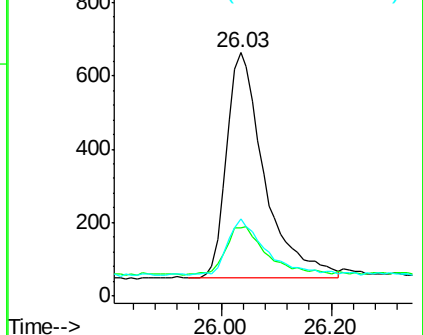
277 26.1 19.9 29.9

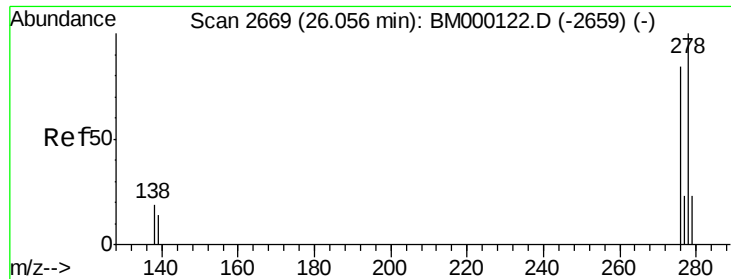


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

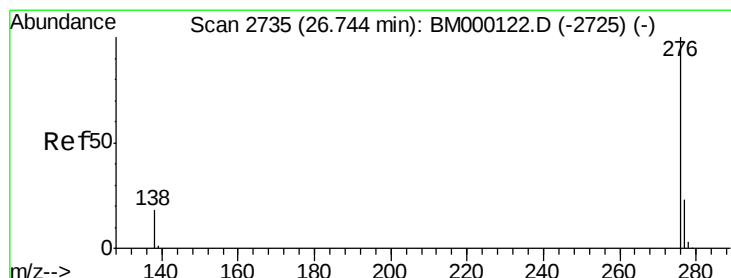
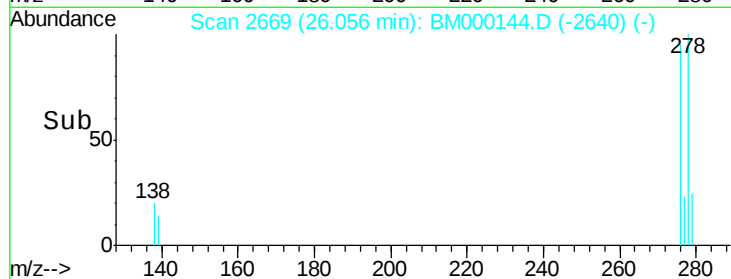
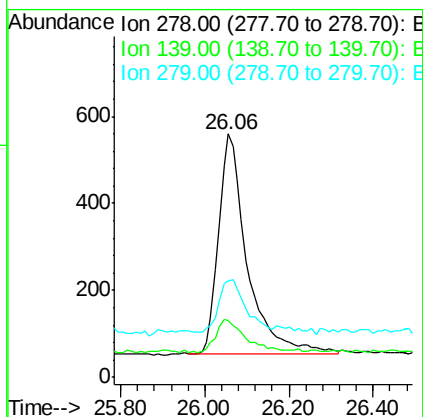
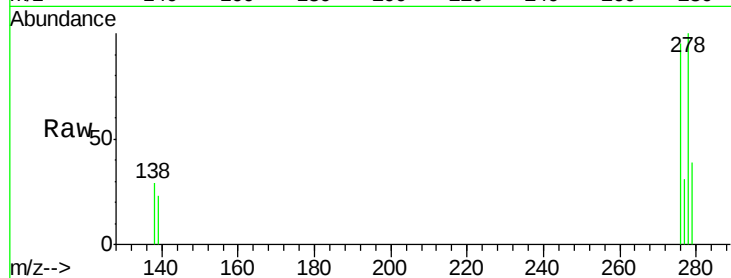




#25  
Dibenzo(a,h)anthracene  
Concen: 0.06 ng/ul  
RT: 26.06 min Scan# 2669  
Delta R.T. 0.00 min  
Lab File: BM000144.D  
Acq: 08 Jan 2015 02:29

Instrument :  
BNA\_M  
ClientSampleId :  
DFTPP05

Tgt Ion: 278 Resp: 2408  
Ion Ratio Lower Upper  
278 100  
139 23.4 12.6 18.8#  
279 39.5 20.6 30.8#



#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: BM000144.D  
Acq: 08 Jan 2015 02:29

Tgt Ion: 276 Resp: 2706  
Ion Ratio Lower Upper  
276 100  
277 32.3 20.0 30.0#  
138 26.9 15.7 23.5#

