

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM032015\  
 Data File : BM000742.D  
 Acq On : 20 Mar 2015 15:22  
 Operator : TP/IZ  
 Sample : G1581-08  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 X1M18

Quant Time: Mar 23 11:12:28 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-SIM-BM031915.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Mar 21 04:02:13 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.62  | 152  | 2517     | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.41 | 136  | 8889     | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.27 | 164  | 4862     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.02 | 188  | 9102     | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.22 | 240  | 8139     | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.41 | 264  | 7559     | 0.40 | ng/ul | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 12.00 | 152  | 2318     | 0.23 | ng/ul | 0.00     |
| 14) Fluoranthene-d10        | 19.06 | 212  | 5371     | 0.30 | ng/ul | 0.01     |

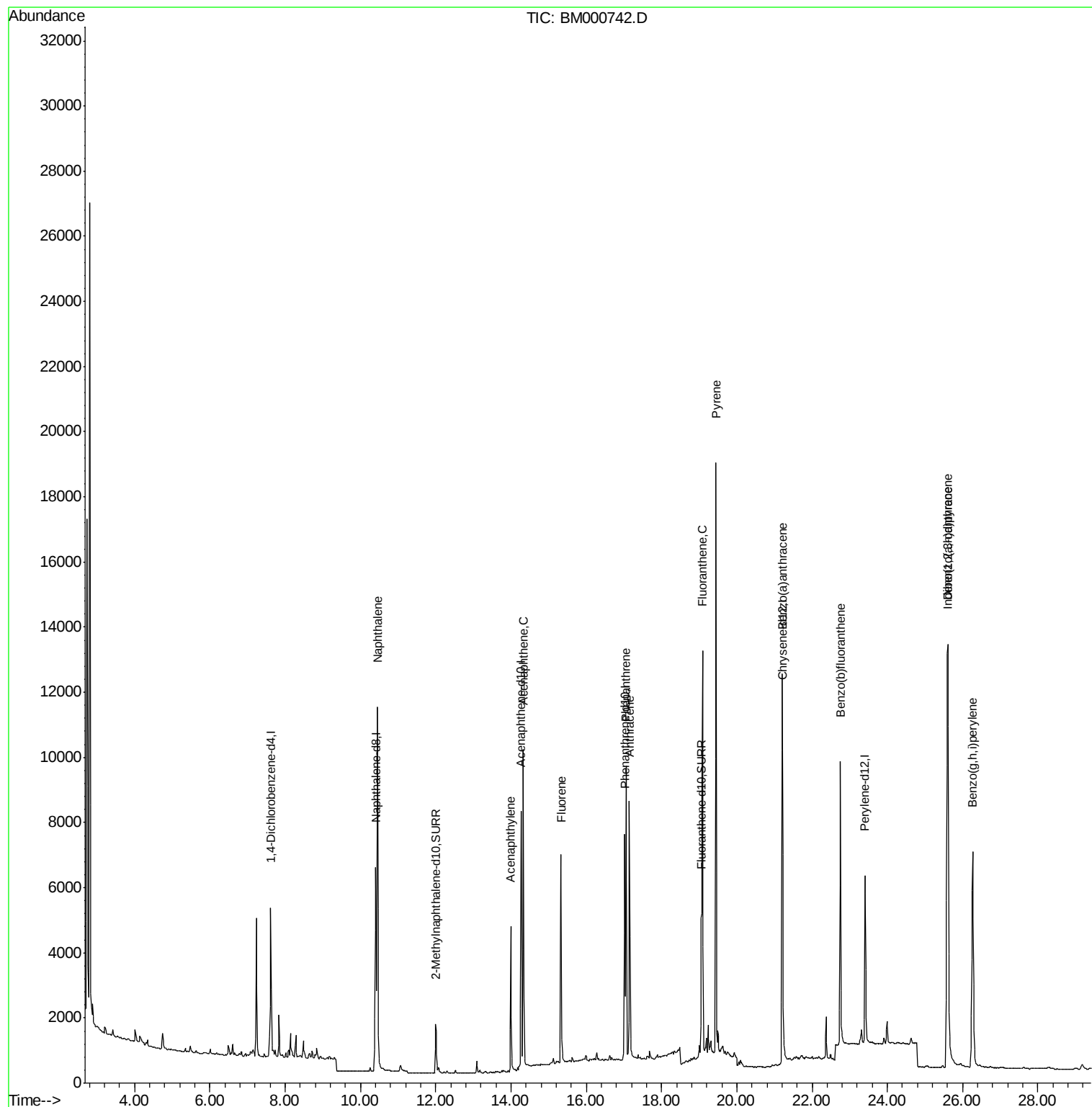
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) Naphthalene             | 10.46 | 128  | 16855    | 0.80 | ng/ul  | 99     |
| 7) Acenaphthylene          | 14.00 | 152  | 6191     | 0.37 | ng/ul  | 98     |
| 8) Acenaphthene            | 14.33 | 153  | 6120     | 0.45 | ng/ul  | 97     |
| 9) Fluorene                | 15.34 | 166  | 5862     | 0.38 | ng/ul  | 98     |
| 12) Phenanthrene           | 17.05 | 178  | 11039    | 0.45 | ng/ul  | 99     |
| 13) Anthracene             | 17.15 | 178  | 9981     | 0.47 | ng/ul  | 98     |
| 15) Fluoranthene           | 19.09 | 202  | 12125    | 0.45 | ng/ul  | 96     |
| 17) Pyrene                 | 19.45 | 202  | 16625    | 0.57 | ng/ul  | 99     |
| 18) Benzo(a)anthracene     | 21.21 | 228  | 11320    | 0.50 | ng/ul# | 89     |
| 21) Benzo(b)fluoranthene   | 22.75 | 252  | 10982    | 0.43 | ng/ul  | 96     |
| 24) Indeno(1,2,3-cd)pyrene | 25.60 | 276  | 16141    | 0.59 | ng/ul  | 99     |
| 25) Dibenzo(a,h)anthracene | 25.61 | 278  | 12364    | 0.56 | ng/ul# | 92     |
| 26) Benzo(g,h,i)perylene   | 26.26 | 276  | 13522    | 0.56 | ng/ul  | 100    |

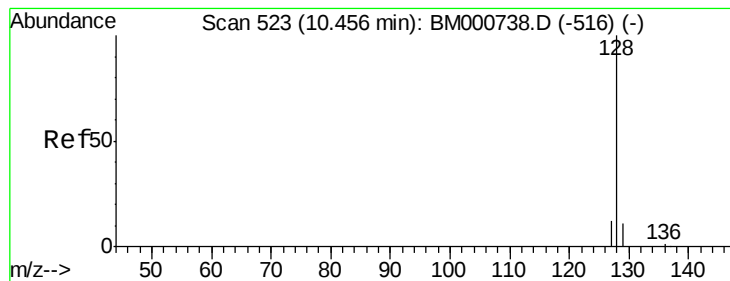
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Naphthalene

Concen: 0.80 ng/ul

RT: 10.46 min Scan# 523

Delta R.T. -0.00 min

Lab File: BM000742.D

Acq: 20 Mar 2015 15:22

Instrument :

BNA\_M

ClientSampleId :

X1M18

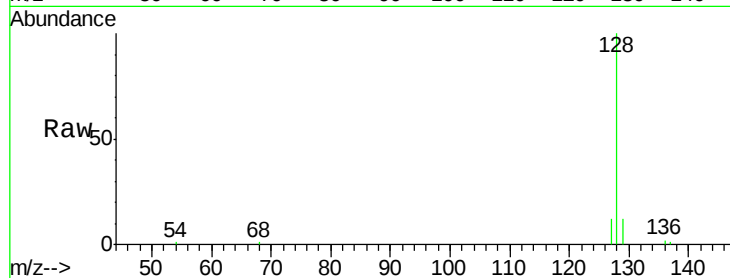
Tgt Ion:128 Resp: 16855

Ion Ratio Lower Upper

128 100

129 11.7 9.3 13.9

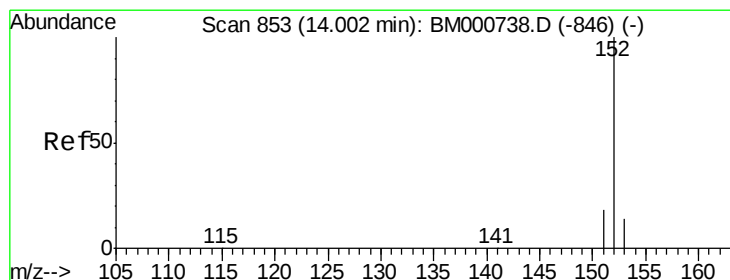
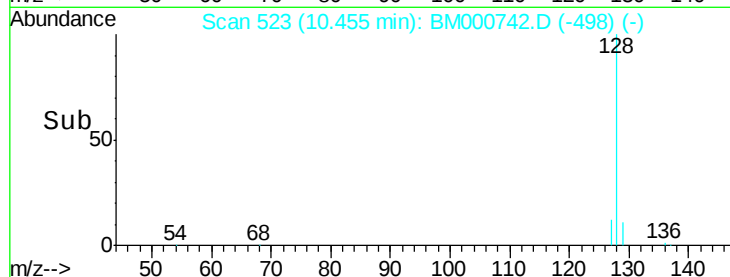
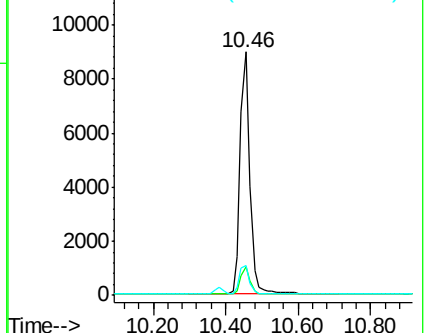
127 12.5 10.2 15.4



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

Acenaphthylene

Concen: 0.37 ng/ul

RT: 14.00 min Scan# 853

Delta R.T. -0.00 min

Lab File: BM000742.D

Acq: 20 Mar 2015 15:22

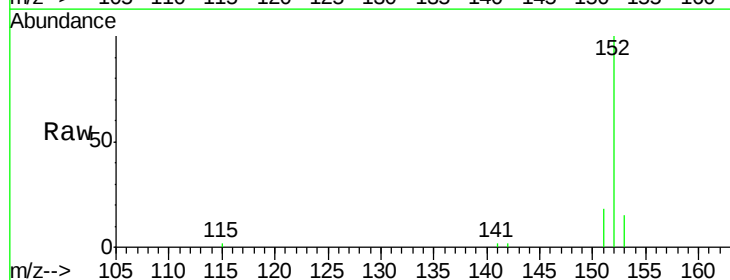
Tgt Ion:152 Resp: 6191

Ion Ratio Lower Upper

152 100

151 18.5 15.2 22.8

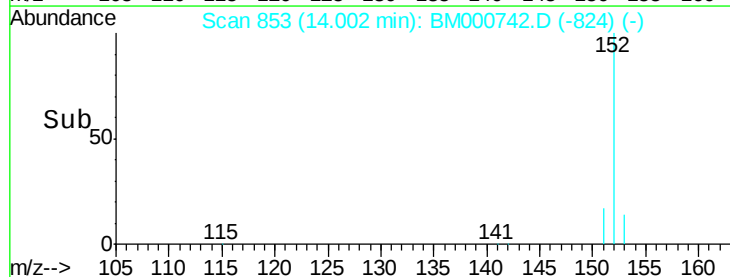
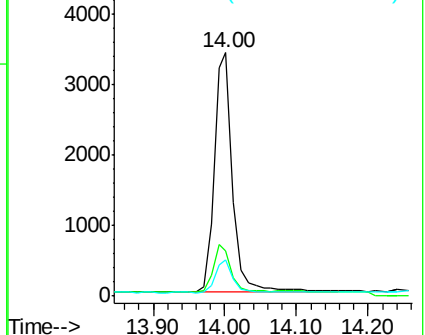
153 15.1 11.2 16.8

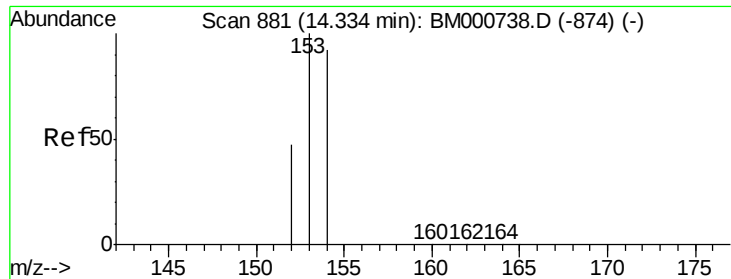


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#8

Acenaphthene

Concen: 0.45 ng/ul

RT: 14.33 min Scan# 881

Delta R.T. -0.00 min

Lab File: BM000742.D

Acq: 20 Mar 2015 15:22

Instrument :

BNA\_M

ClientSampleId :

X1M18

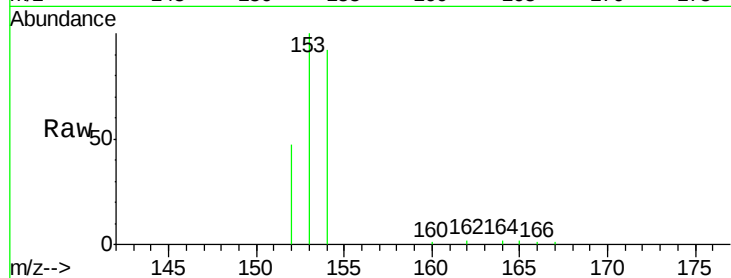
Tgt Ion:153 Resp: 6120

Ion Ratio Lower Upper

153 100

152 46.5 37.8 56.6

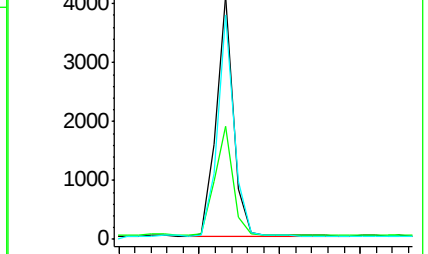
154 92.1 71.0 106.6



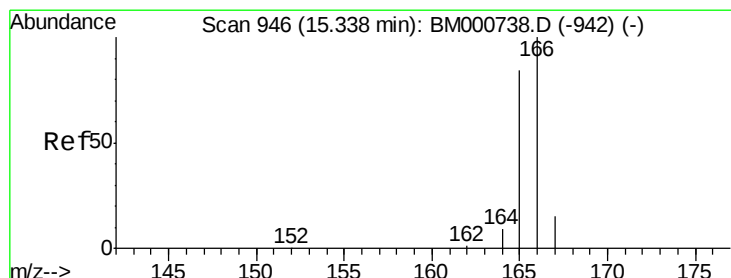
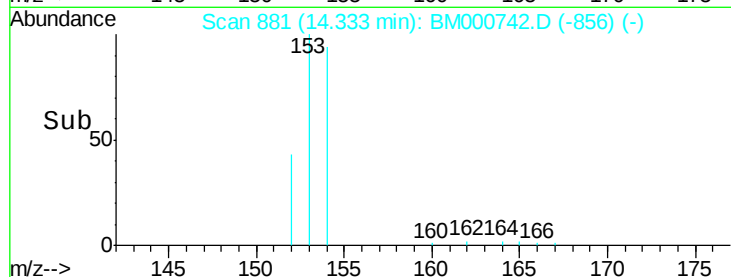
Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



Time--> 14.20 14.30 14.40 14.50



#9

Fluorene

Concen: 0.38 ng/ul

RT: 15.34 min Scan# 946

Delta R.T. -0.00 min

Lab File: BM000742.D

Acq: 20 Mar 2015 15:22

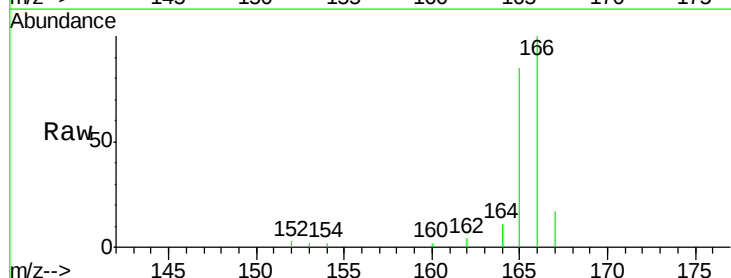
Tgt Ion:166 Resp: 5862

Ion Ratio Lower Upper

166 100

165 85.1 69.8 104.6

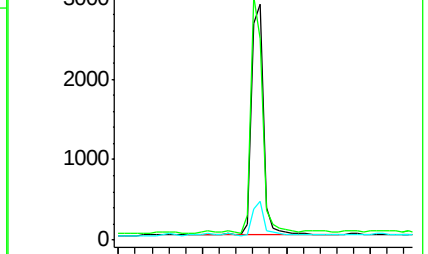
167 16.7 12.5 18.7



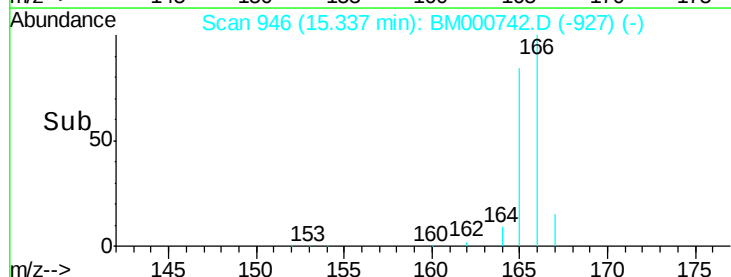
Abundance Ion 166.00 (165.70 to 166.70): E

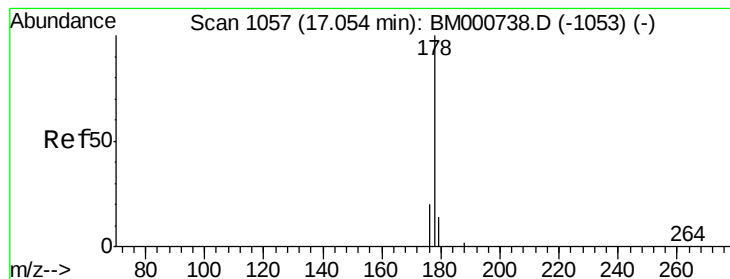
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time--> 15.00 15.20 15.40 15.60





#12

Phenanthrene

Concen: 0.45 ng/ul

RT: 17.05 min Scan# 1057

Delta R.T. -0.00 min

Lab File: BM000742.D

Acq: 20 Mar 2015 15:22

Instrument :

BNA\_M

ClientSampleId :

X1M18

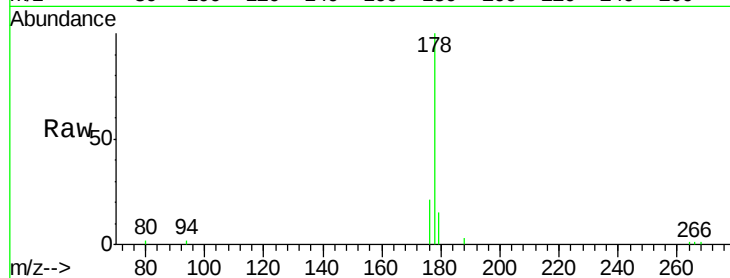
Tgt Ion:178 Resp: 11039

Ion Ratio Lower Upper

178 100

176 21.3 17.4 26.0

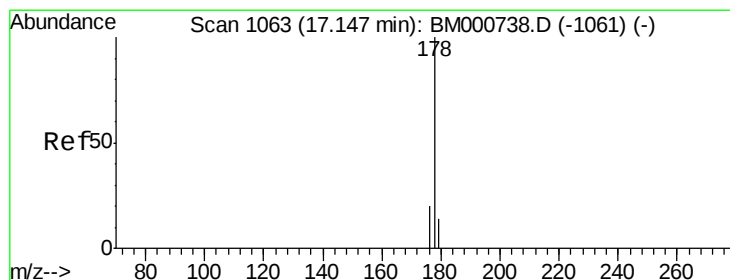
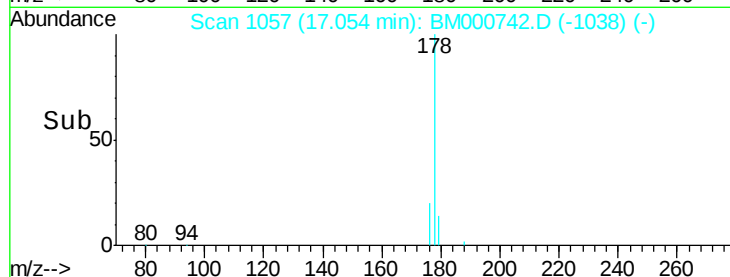
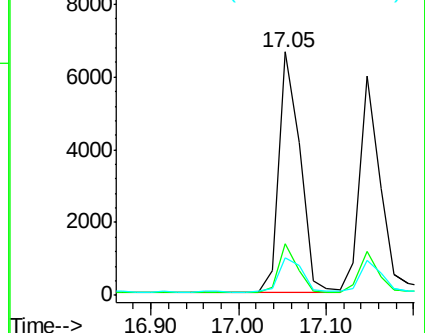
179 15.2 11.5 17.3



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: 0.47 ng/ul

RT: 17.15 min Scan# 1063

Delta R.T. -0.00 min

Lab File: BM000742.D

Acq: 20 Mar 2015 15:22

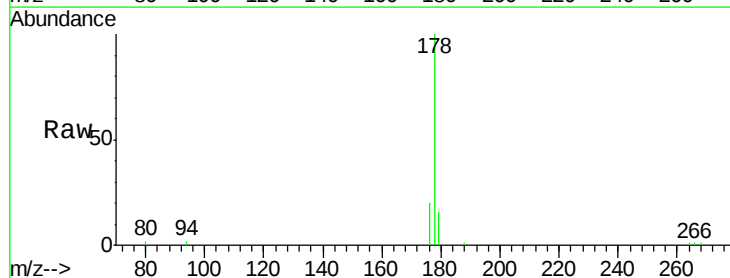
Tgt Ion:178 Resp: 9981

Ion Ratio Lower Upper

178 100

176 20.3 16.7 25.1

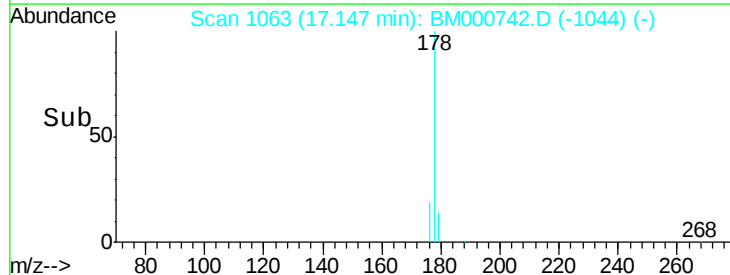
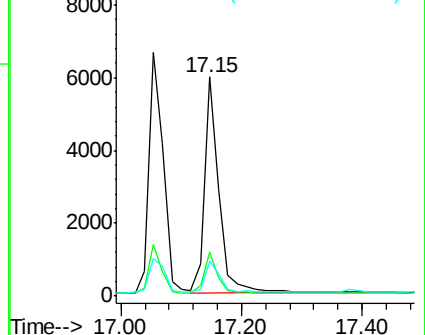
179 15.8 12.0 18.0

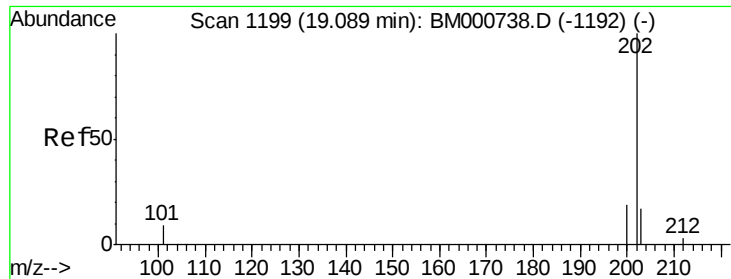


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 0.45 ng/ul

RT: 19.09 min Scan# 1199

Delta R.T. -0.00 min

Lab File: BM000742.D

Acq: 20 Mar 2015 15:22

Instrument :

BNA\_M

ClientSampleId :

X1M18

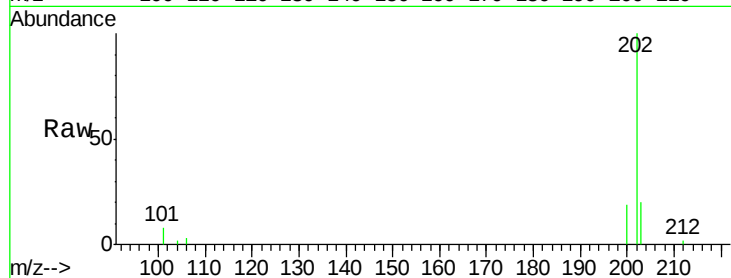
Tgt Ion:202 Resp: 12125

Ion Ratio Lower Upper

202 100

101 8.4 0.0 29.8

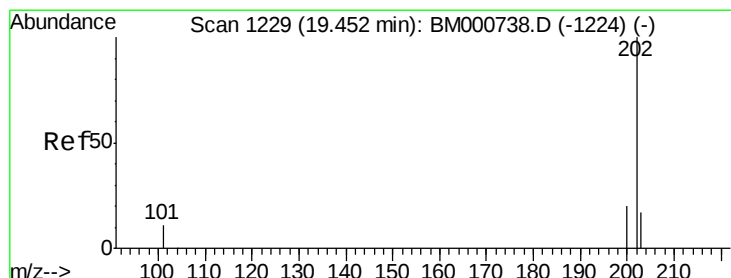
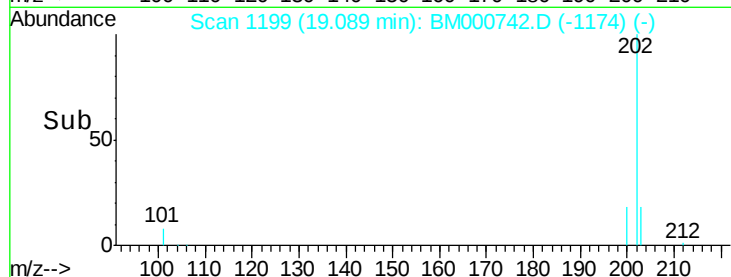
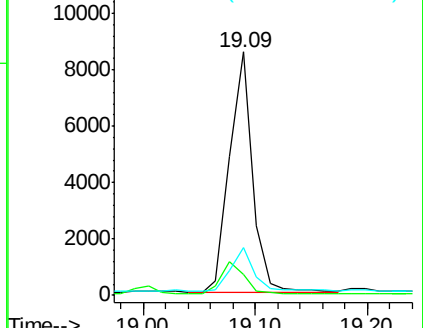
203 19.8 0.0 37.7



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: 0.57 ng/ul

RT: 19.45 min Scan# 1229

Delta R.T. -0.00 min

Lab File: BM000742.D

Acq: 20 Mar 2015 15:22

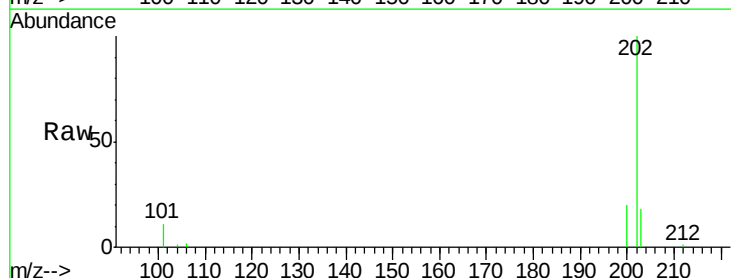
Tgt Ion:202 Resp: 16625

Ion Ratio Lower Upper

202 100

200 20.2 16.3 24.5

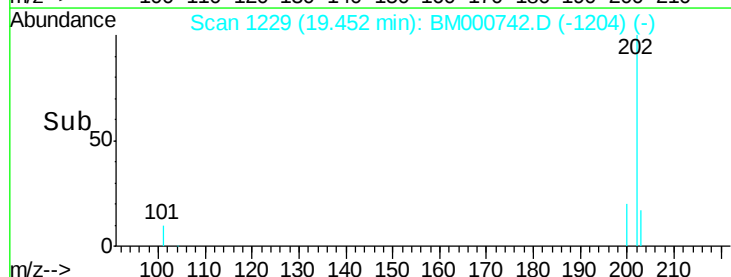
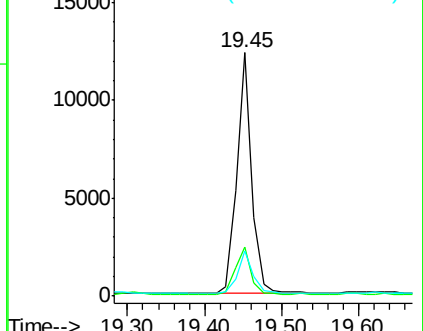
203 18.4 13.9 20.9

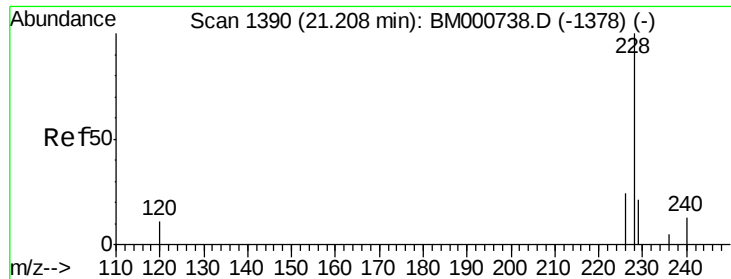


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#18

Benzo(a)anthracene

Concen: 0.50 ng/ul

RT: 21.21 min Scan# 1390

Delta R.T. -0.00 min

Lab File: BM000742.D

Acq: 20 Mar 2015 15:22

Instrument :

BNA\_M

ClientSampleId :

X1M18

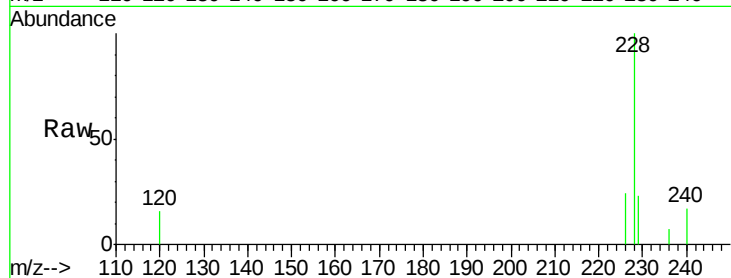
Tgt Ion:228 Resp: 11320

Ion Ratio Lower Upper

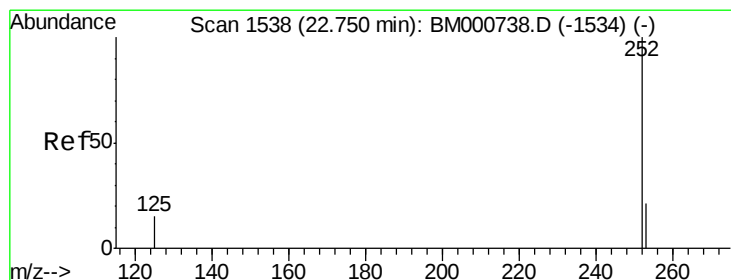
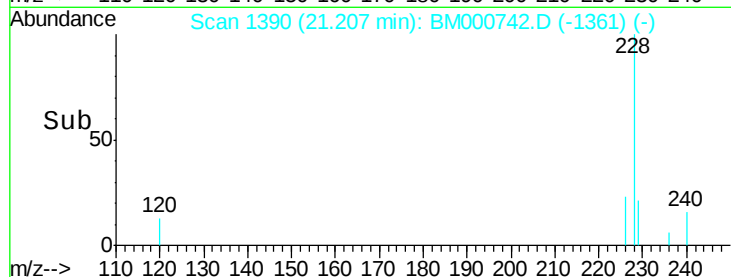
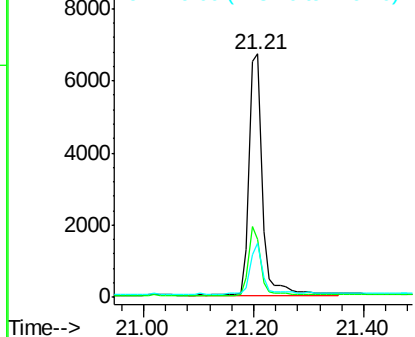
228 100

226 23.8 23.7 35.5

229 22.5 14.2 21.2#



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



#21

Benzo(b)fluoranthene

Concen: 0.43 ng/ul

RT: 22.75 min Scan# 1538

Delta R.T. -0.00 min

Lab File: BM000742.D

Acq: 20 Mar 2015 15:22

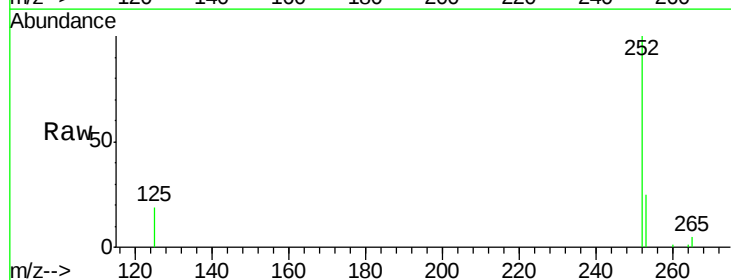
Tgt Ion:252 Resp: 10982

Ion Ratio Lower Upper

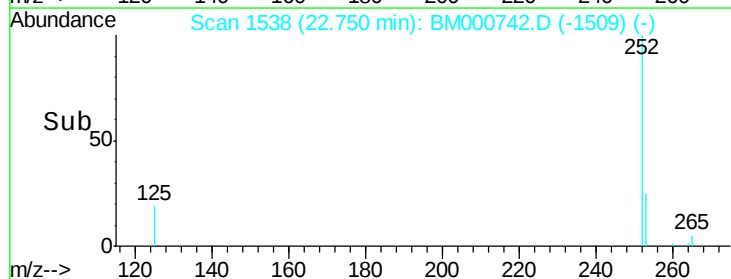
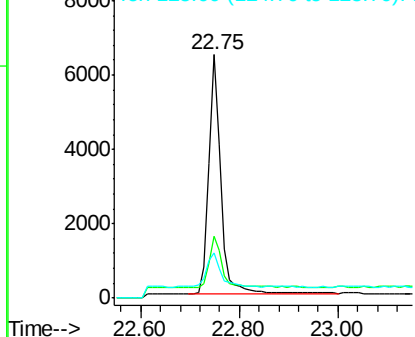
252 100

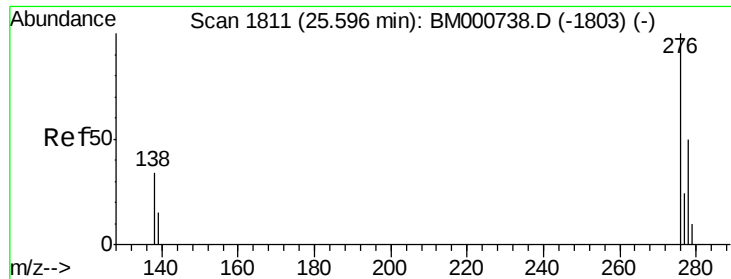
253 25.2 0.0 49.2

125 18.6 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

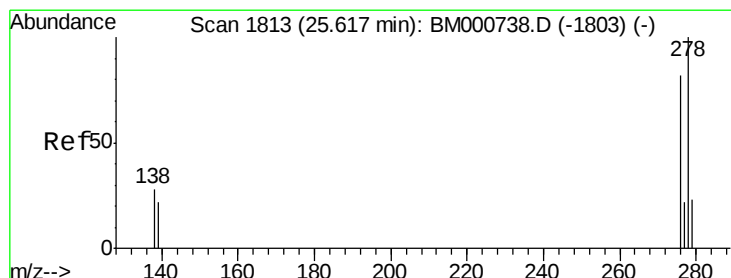
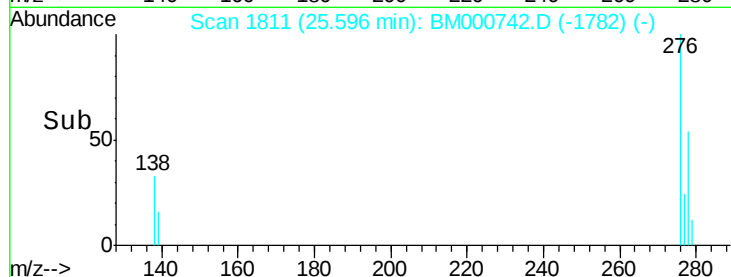
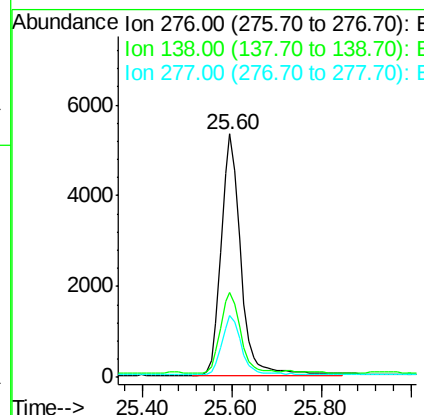
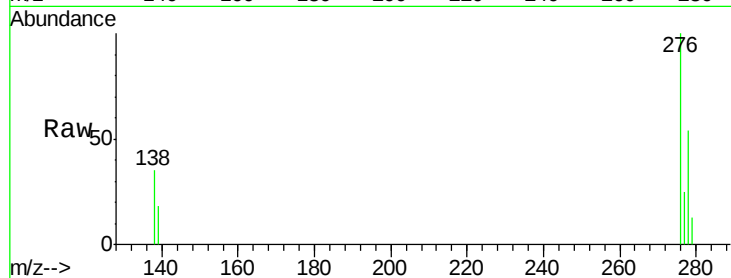




#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.59 ng/ul  
 RT: 25.60 min Scan# 1811  
 Delta R.T. -0.00 min  
 Lab File: BM000742.D  
 Acq: 20 Mar 2015 15:22

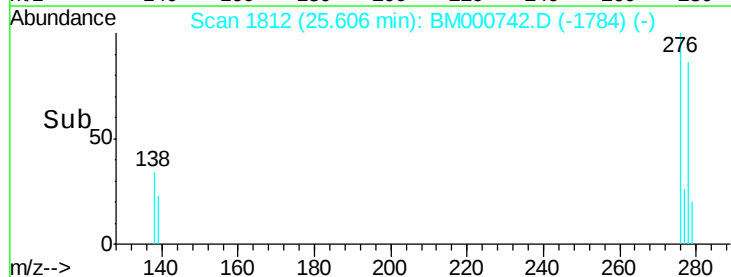
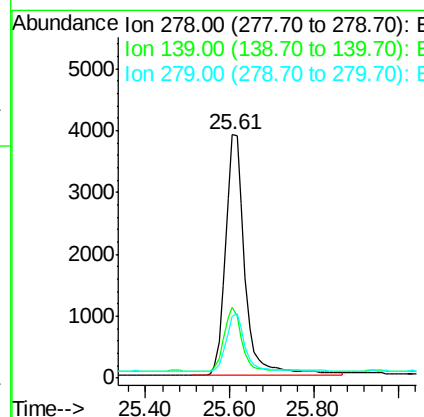
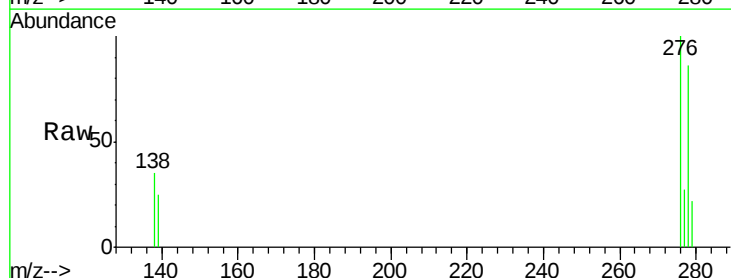
Instrument :  
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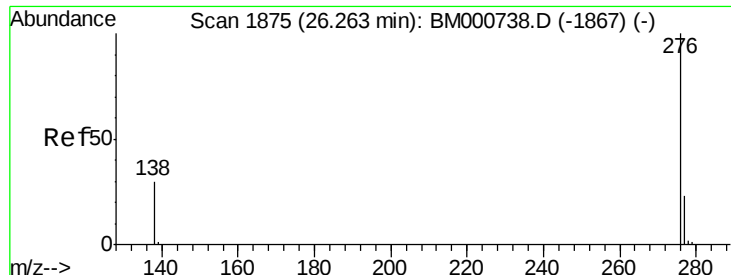
Tgt Ion: 276 Resp: 16141  
 Ion Ratio Lower Upper  
 276 100  
 138 33.9 27.8 41.8  
 277 24.6 19.9 29.9



#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.56 ng/ul  
 RT: 25.61 min Scan# 1812  
 Delta R.T. -0.01 min  
 Lab File: BM000742.D  
 Acq: 20 Mar 2015 15:22

Tgt Ion: 278 Resp: 12364  
 Ion Ratio Lower Upper  
 278 100  
 139 29.0 18.1 27.1#  
 279 25.6 22.3 33.5





#26

Benzo(g,h,i)perylene

Concen: 0.56 ng/ul

RT: 26.26 min Scan# 1875

Delta R.T. -0.00 min

Lab File: BM000742.D

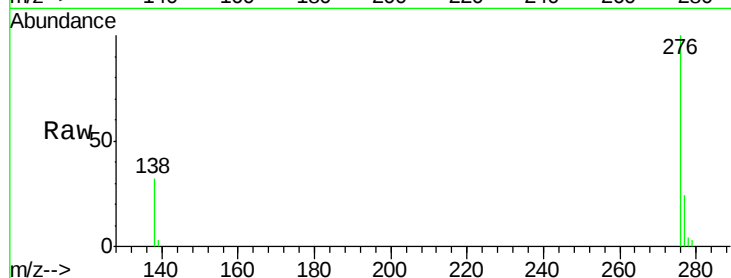
Acq: 20 Mar 2015 15:22

Instrument :

BNA\_M

ClientSampleId :

X1M18



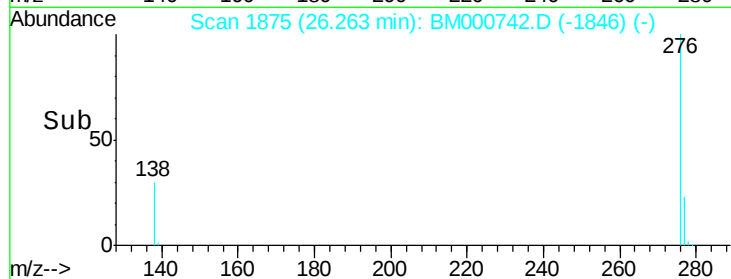
Tgt Ion: 276 Resp: 13522

Ion Ratio Lower Upper

276 100

277 24.4 19.6 29.4

138 32.3 25.6 38.4



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

