

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM042715\  
 Data File : BM001121.D  
 Acq On : 27 Apr 2015 17:48  
 Operator : TP/IZ  
 Sample : G1998-03DL 2X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 X1Q38DL

Quant Time: Apr 28 01:52:32 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-SIM-BM042715.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 27 14:06:45 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.54  | 152  | 1048     | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.32 | 136  | 3516     | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.20 | 164  | 1793     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 16.95 | 188  | 4062     | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.16 | 240  | 3681     | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.33 | 264  | 3534     | 0.40 | ng/ul | 0.01     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 11.93 | 152  | 872      | 0.19 | ng/ul | 0.00     |
| 14) Fluoranthene-d10        | 19.00 | 212  | 1803     | 0.19 | ng/ul | 0.00     |

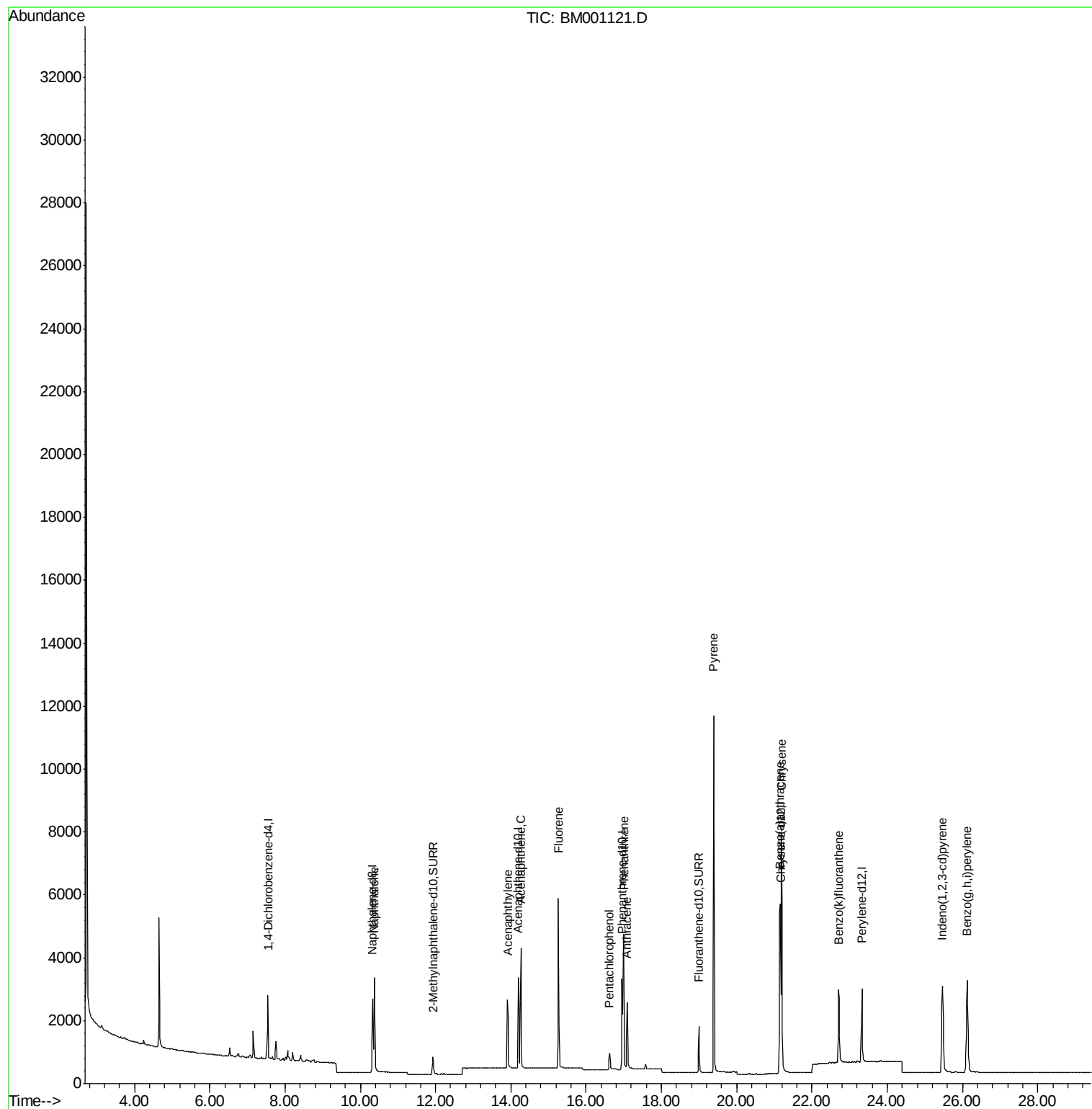
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) Naphthalene             | 10.37 | 128  | 4332     | 0.48 | ng/ul  | 99     |
| 7) Acenaphthylene          | 13.91 | 152  | 3357     | 0.41 | ng/ul  | 99     |
| 8) Acenaphthene            | 14.27 | 153  | 2605     | 0.41 | ng/ul  | 98     |
| 9) Fluorene                | 15.26 | 166  | 3643     | 0.50 | ng/ul  | 95     |
| 11) Pentachlorophenol      | 16.63 | 266  | 521      | 0.69 | ng/ul  | 99     |
| 12) Phenanthrene           | 17.00 | 178  | 4822     | 0.41 | ng/ul  | 98     |
| 13) Anthracene             | 17.09 | 178  | 2742     | 0.25 | ng/ul  | 98     |
| 17) Pyrene                 | 19.39 | 202  | 11479    | 0.84 | ng/ul  | 98     |
| 18) Benzo(a)anthracene     | 21.14 | 228  | 4949     | 0.42 | ng/ul  | 99     |
| 19) Chrysene               | 21.19 | 228  | 7337     | 0.57 | ng/ul  | 100    |
| 22) Benzo(k)fluoranthene   | 22.71 | 252  | 3422     | 0.26 | ng/ul  | 96     |
| 24) Indeno(1,2,3-cd)pyrene | 25.47 | 276  | 5489     | 0.39 | ng/ul# | 92     |
| 26) Benzo(g,h,i)perylene   | 26.12 | 276  | 6096     | 0.49 | ng/ul  | 99     |

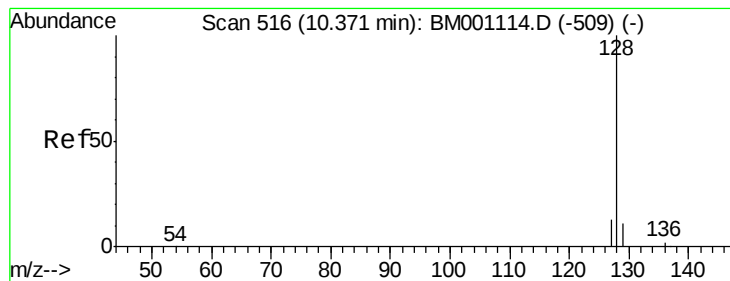
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Naphthalene

Concen: 0.48 ng/ul

RT: 10.37 min Scan# 516

Delta R.T. -0.00 min

Lab File: BM001121.D

Acq: 27 Apr 2015 17:48

Instrument :

BNA\_M

ClientSampleId :

X1Q38DL

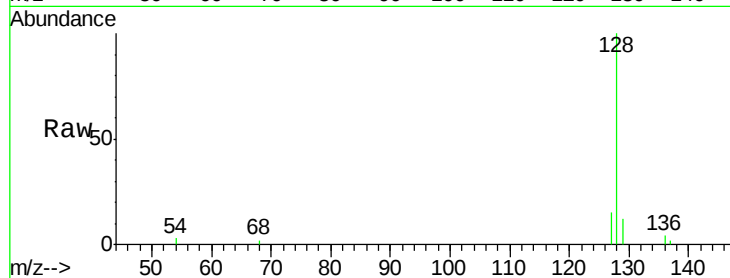
Tgt Ion:128 Resp: 4332

Ion Ratio Lower Upper

128 100

129 12.4 10.2 15.4

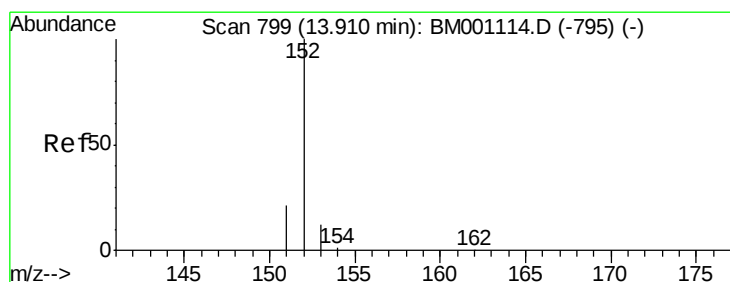
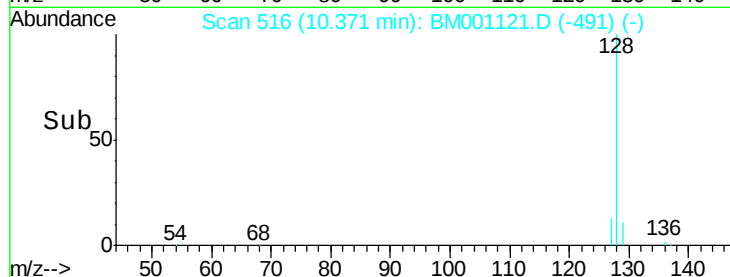
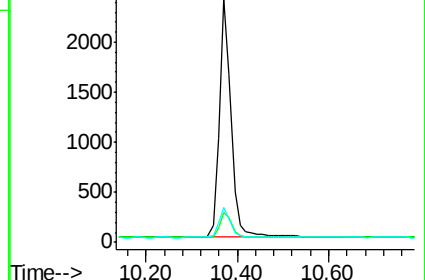
127 14.5 11.7 17.5



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: 0.41 ng/ul

RT: 13.91 min Scan# 799

Delta R.T. -0.00 min

Lab File: BM001121.D

Acq: 27 Apr 2015 17:48

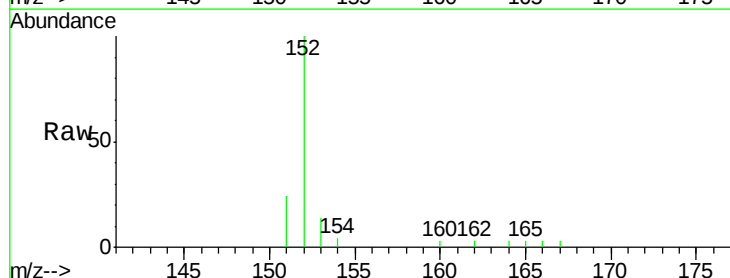
Tgt Ion:152 Resp: 3357

Ion Ratio Lower Upper

152 100

151 23.6 18.7 28.1

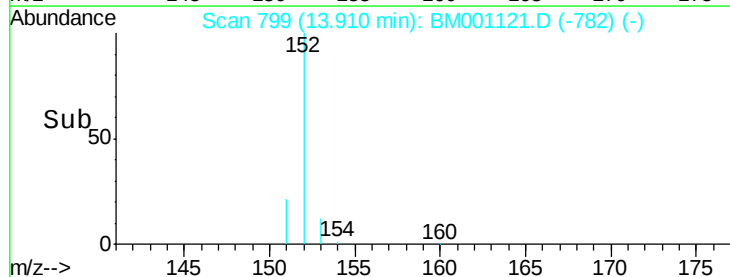
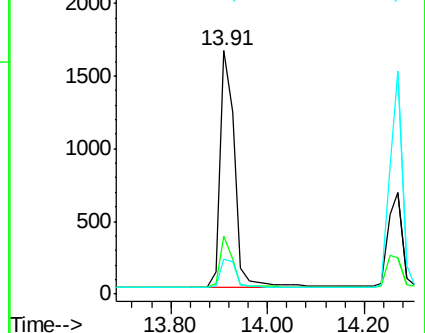
153 14.1 11.6 17.4

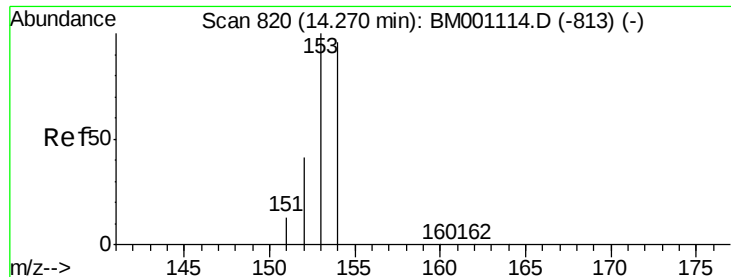


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#8

Acenaphthene

Concen: 0.41 ng/ul

RT: 14.27 min Scan# 820

Delta R.T. -0.00 min

Lab File: BM001121.D

Acq: 27 Apr 2015 17:48

Instrument :

BNA\_M

ClientSampleId :

X1Q38DL

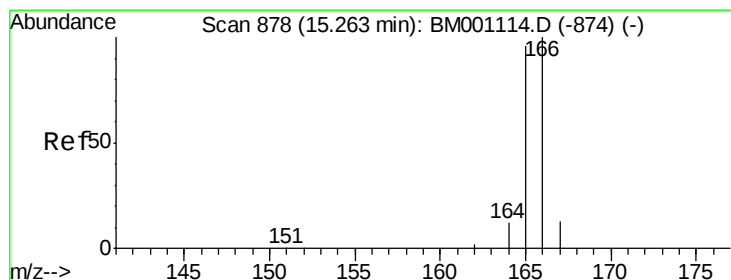
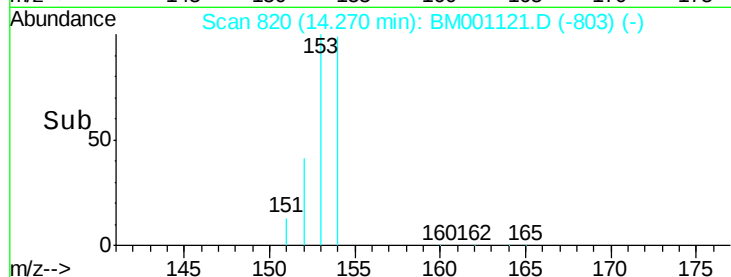
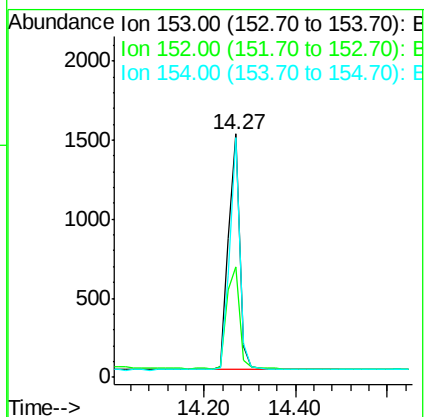
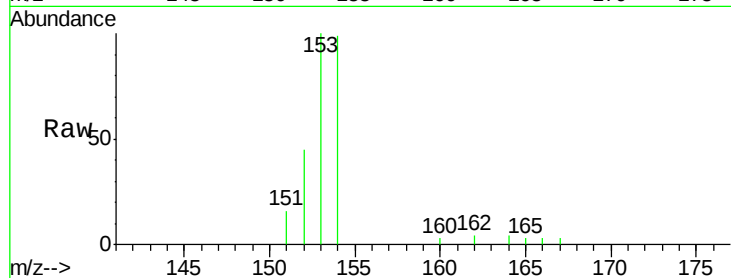
Tgt Ion:153 Resp: 2605

Ion Ratio Lower Upper

153 100

152 45.4 35.1 52.7

154 98.5 77.0 115.4



#9

Fluorene

Concen: 0.50 ng/ul

RT: 15.26 min Scan# 878

Delta R.T. -0.00 min

Lab File: BM001121.D

Acq: 27 Apr 2015 17:48

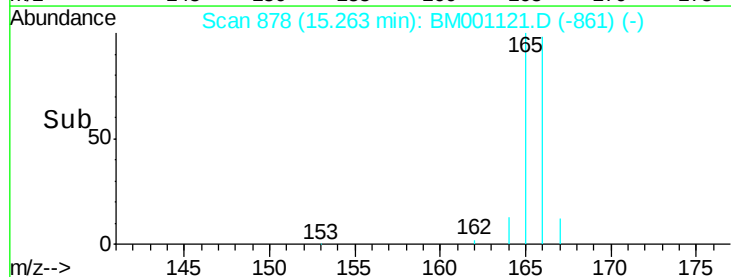
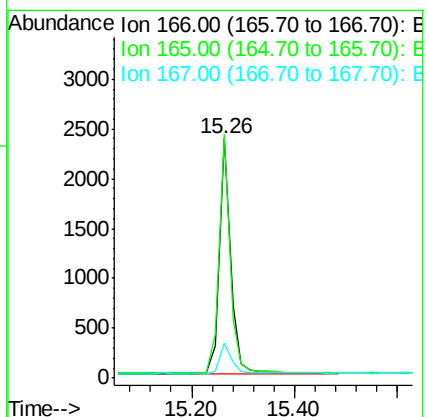
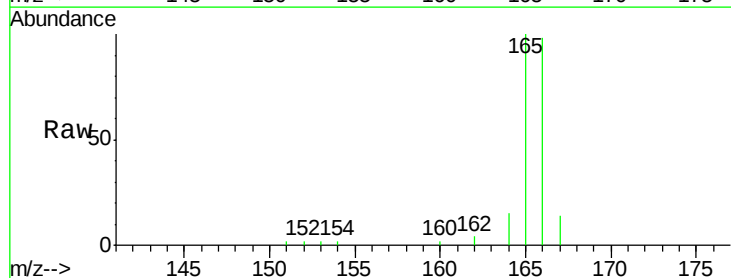
Tgt Ion:166 Resp: 3643

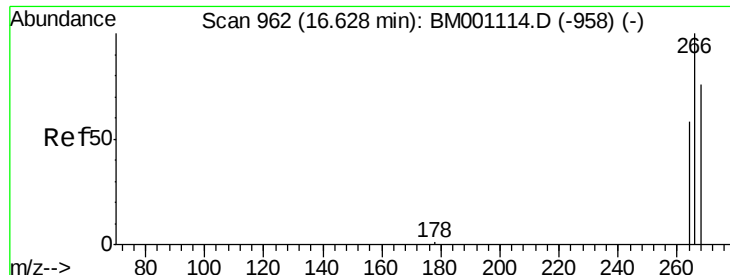
Ion Ratio Lower Upper

166 100

165 101.7 76.8 115.2

167 14.4 12.6 18.8

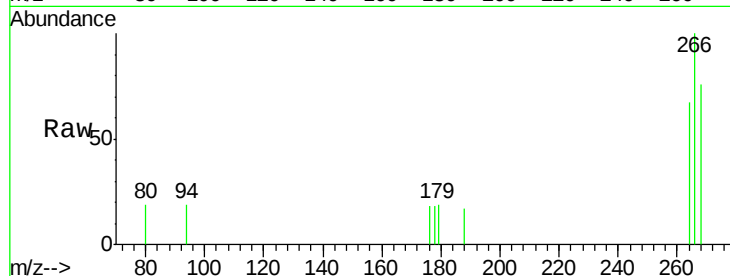




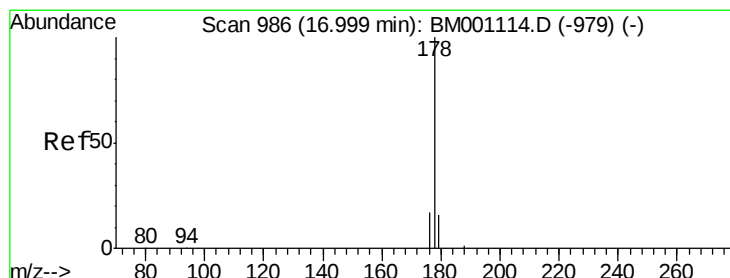
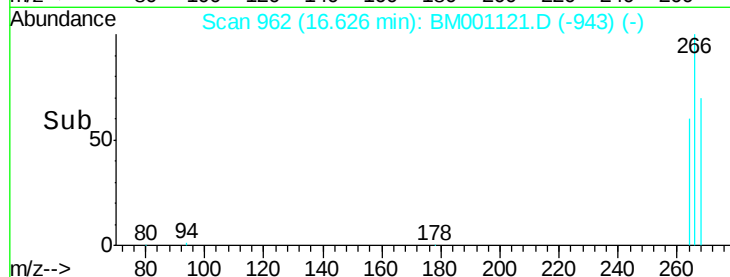
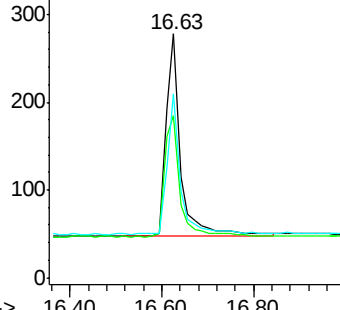
#11  
 Pentachlorophenol  
 Concen: 0.69 ng/ul  
 RT: 16.63 min Scan# 962  
 Delta R.T. -0.00 min  
 Lab File: BM001121.D  
 Acq: 27 Apr 2015 17:48

Instrument :  
 BNA\_M  
 ClientSampleId :  
 X1Q38DL

Tgt Ion: 266 Resp: 521  
 Ion Ratio Lower Upper  
 266 100  
 264 63.7 51.3 76.9  
 268 64.3 52.2 78.4

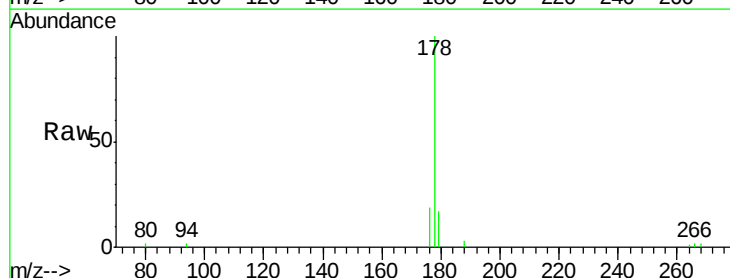


Abundance Ion 266.00 (265.70 to 266.70): E  
 Ion 264.00 (263.70 to 264.70): E  
 Ion 268.00 (267.70 to 268.70): E

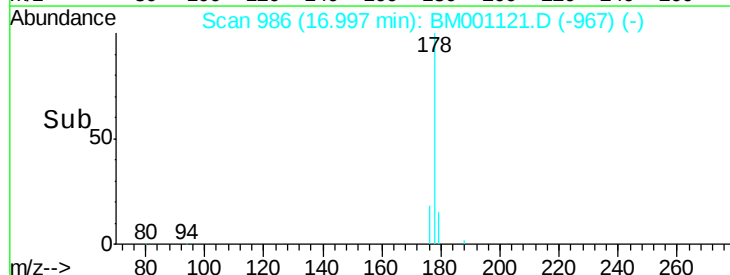
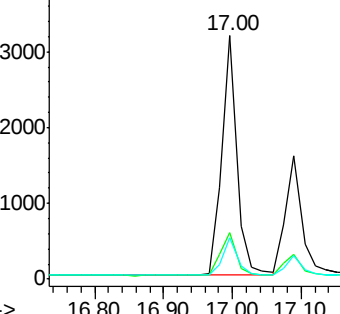


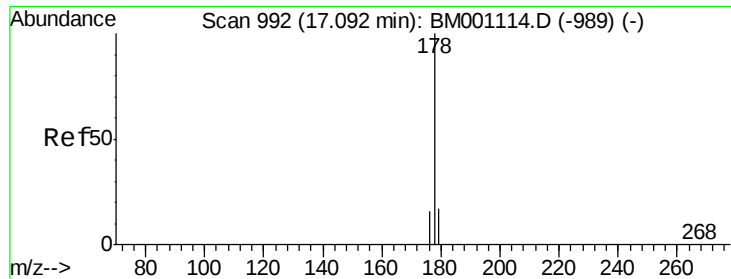
#12  
 Phenanthrene  
 Concen: 0.41 ng/ul  
 RT: 17.00 min Scan# 986  
 Delta R.T. -0.00 min  
 Lab File: BM001121.D  
 Acq: 27 Apr 2015 17:48

Tgt Ion: 178 Resp: 4822  
 Ion Ratio Lower Upper  
 178 100  
 176 19.2 14.9 22.3  
 179 16.8 14.2 21.4



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: 0.25 ng/ul

RT: 17.09 min Scan# 992

Delta R.T. -0.00 min

Lab File: BM001121.D

Acq: 27 Apr 2015 17:48

Instrument :

BNA\_M

ClientSampleId :

X1Q38DL

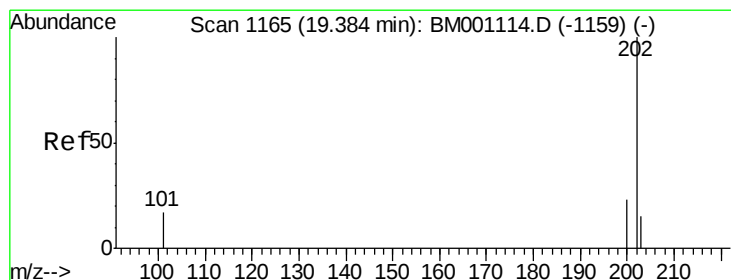
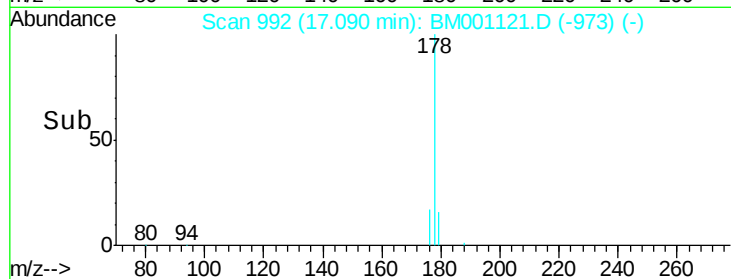
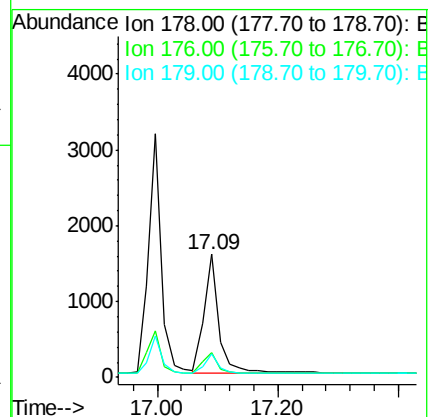
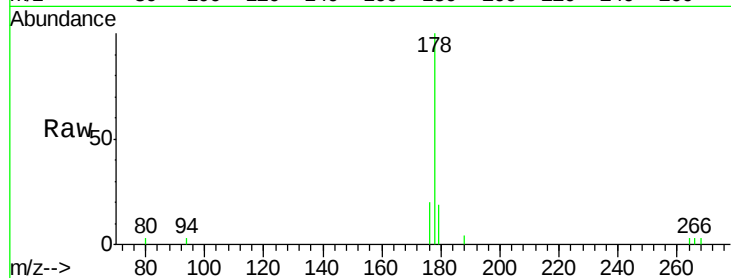
Tgt Ion:178 Resp: 2742

Ion Ratio Lower Upper

178 100

176 19.9 14.7 22.1

179 18.8 15.0 22.6



#17

Pyrene

Concen: 0.84 ng/ul

RT: 19.39 min Scan# 1165

Delta R.T. 0.00 min

Lab File: BM001121.D

Acq: 27 Apr 2015 17:48

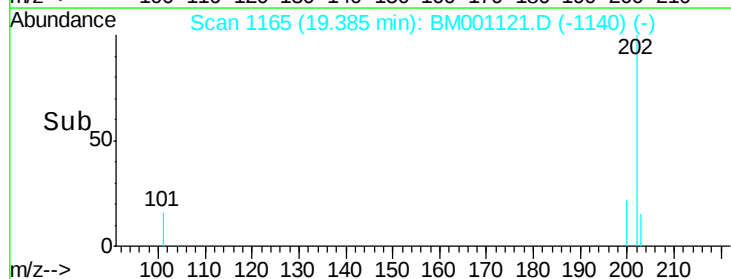
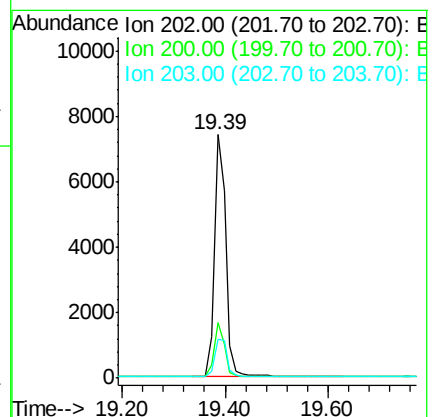
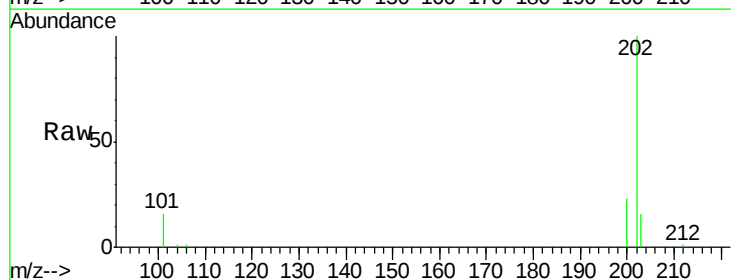
Tgt Ion:202 Resp: 11479

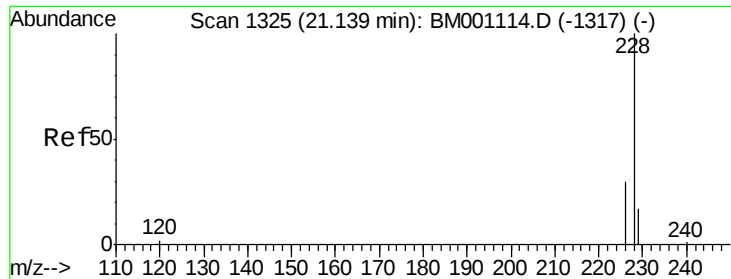
Ion Ratio Lower Upper

202 100

200 22.9 19.2 28.8

203 15.9 13.2 19.8





#18

Benzo(a)anthracene

Concen: 0.42 ng/ul

RT: 21.14 min Scan# 1325

Delta R.T. 0.00 min

Lab File: BM001121.D

Acq: 27 Apr 2015 17:48

Instrument :

BNA\_M

ClientSampleId :

X1Q38DL

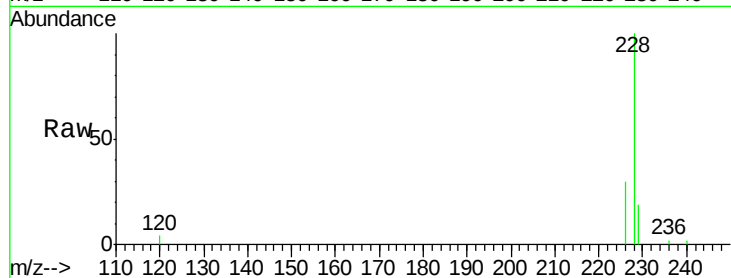
Tgt Ion:228 Resp: 4949

Ion Ratio Lower Upper

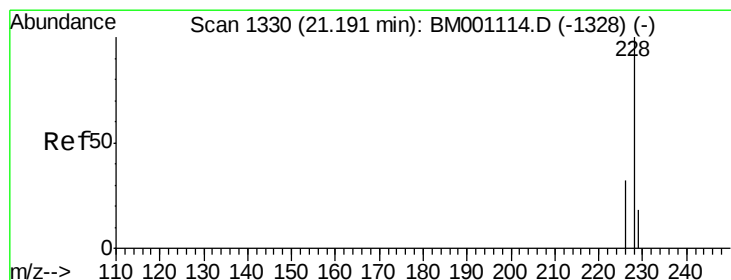
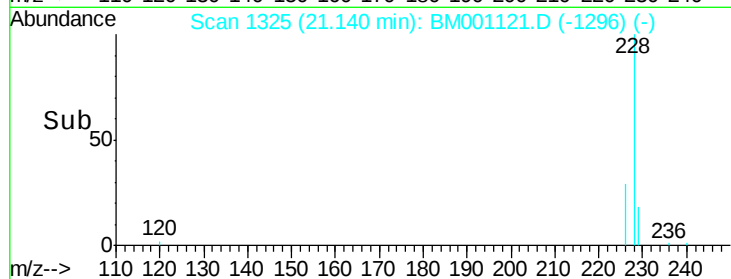
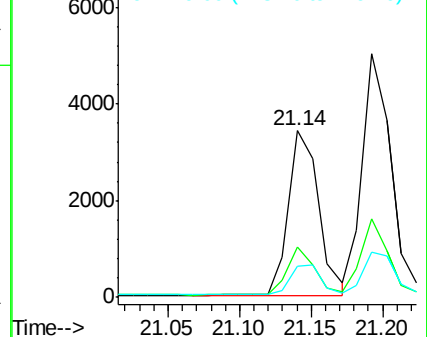
228 100

226 30.1 24.4 36.6

229 18.8 15.0 22.4



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



#19

Chrysene

Concen: 0.57 ng/ul

RT: 21.19 min Scan# 1330

Delta R.T. 0.00 min

Lab File: BM001121.D

Acq: 27 Apr 2015 17:48

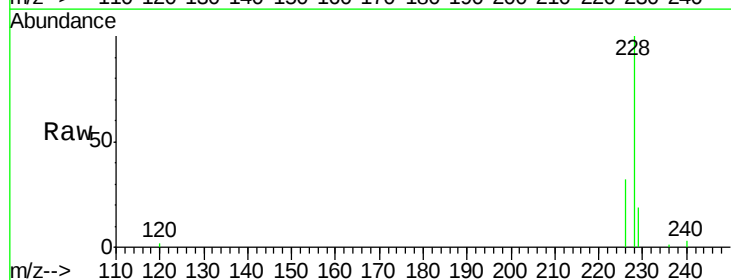
Tgt Ion:228 Resp: 7337

Ion Ratio Lower Upper

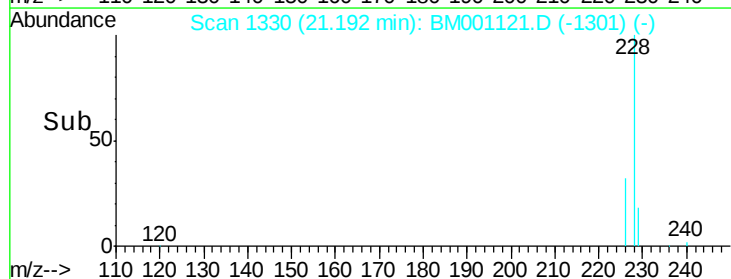
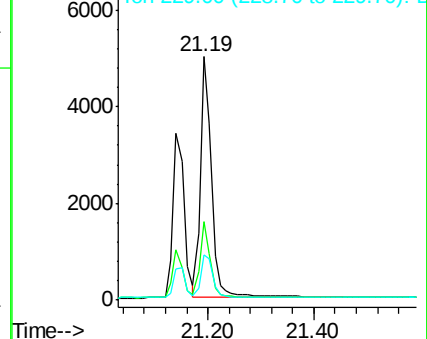
228 100

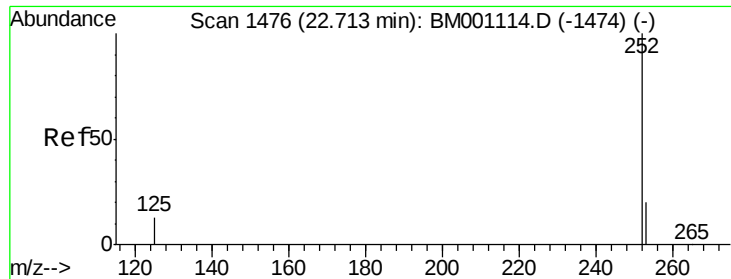
226 32.4 26.0 39.0

229 18.7 15.2 22.8



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





#22

Benzo(k)fluoranthene

Concen: 0.26 ng/ul

RT: 22.71 min Scan# 1476

Delta R.T. 0.00 min

Lab File: BM001121.D

Acq: 27 Apr 2015 17:48

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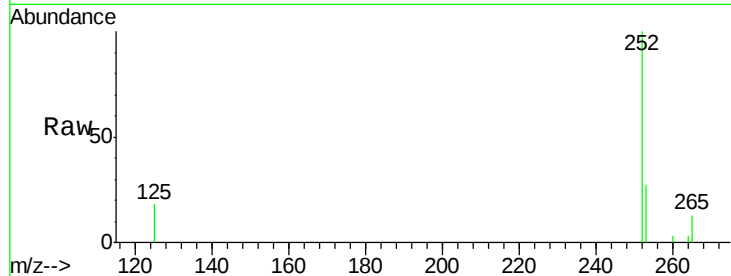
Tgt Ion:252 Resp: 3422

Ion Ratio Lower Upper

252 100

253 27.3 20.3 30.5

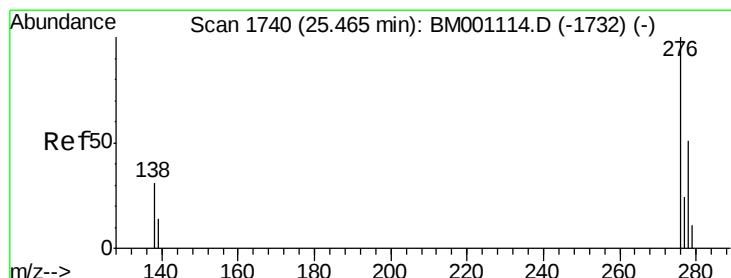
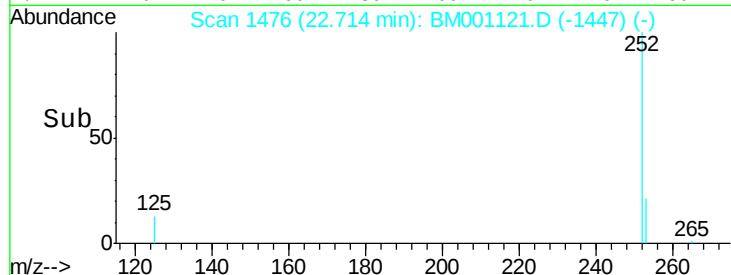
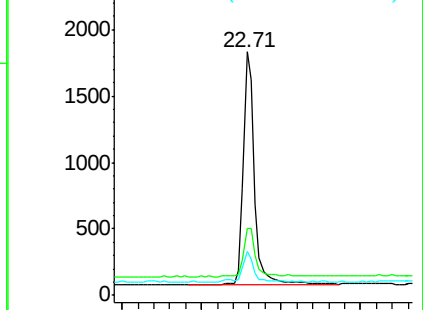
125 17.9 12.6 19.0



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: 0.39 ng/ul

RT: 25.47 min Scan# 1740

Delta R.T. 0.00 min

Lab File: BM001121.D

Acq: 27 Apr 2015 17:48

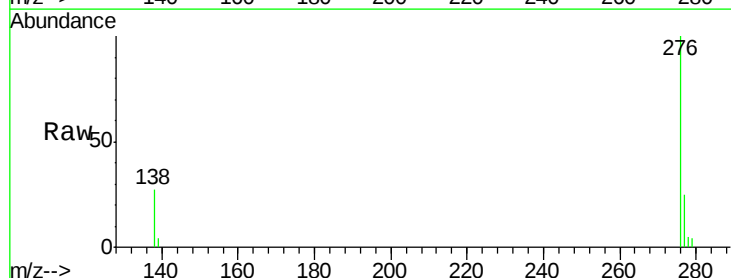
Tgt Ion:276 Resp: 5489

Ion Ratio Lower Upper

276 100

138 24.3 25.0 37.4#

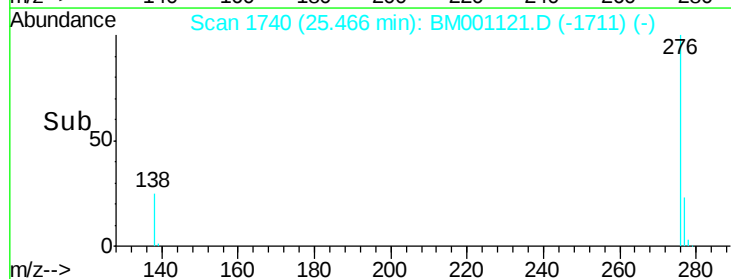
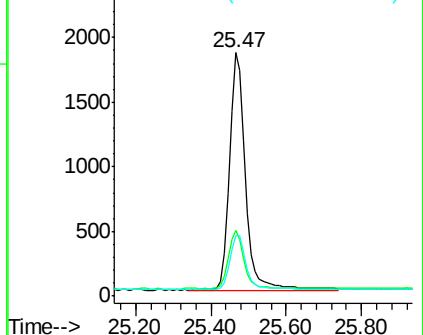
277 23.4 19.9 29.9

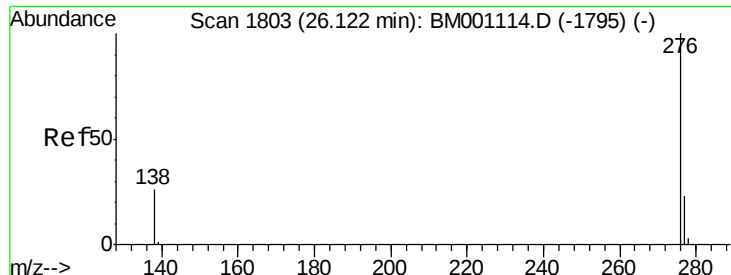


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#26

Benzo(g,h,i)perylene

Concen: 0.49 ng/ul

RT: 26.12 min Scan# 1803

Delta R.T. 0.00 min

Lab File: BM001121.D

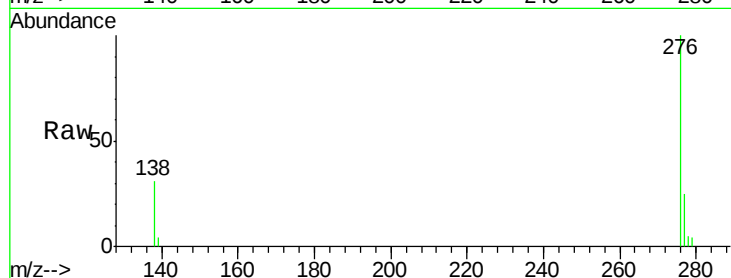
Acq: 27 Apr 2015 17:48

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X1Q38DL



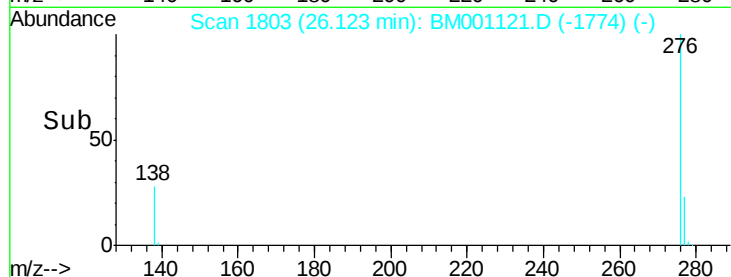
Tgt Ion: 276 Resp: 6096

Ion Ratio Lower Upper

276 100

277 25.3 20.5 30.7

138 30.5 23.5 35.3



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

