

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM083115\  
 Data File : BM002607.D  
 Acq On : 01 Sep 2015 02:06  
 Operator : UM/IZ  
 Sample : G3456-16  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9EA0

Quant Time: Sep 01 03:05:38 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM081415MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Sep 01 02:00:58 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.78  | 152  | 113910   | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 11.65 | 136  | 501968   | 20.00 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 15.37 | 164  | 264973   | 20.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 18.07 | 188  | 512248   | 20.00 | ng/ul | 0.00     |
| 17) Chrysene-d12          | 22.16 | 240  | 507206   | 20.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 24.79 | 264  | 431601   | 20.00 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 7) Acenaphthylene-d8        | 15.07 | 160  | 390162   | 14.40 | ng/ul | 0.00     |
| 10) Fluorene-d10            | 16.34 | 176  | 252930   | 13.29 | ng/ul | 0.00     |
| 14) Anthracene-d10          | 18.17 | 188  | 348060   | 14.09 | ng/ul | 0.00     |
| 18) Pyrene-d10              | 20.40 | 212  | 328323   | 14.60 | ng/ul | 0.00     |
| 25) Benzo(a)pyrene-d12      | 24.61 | 264  | 256028   | 11.29 | ng/ul | 0.00     |

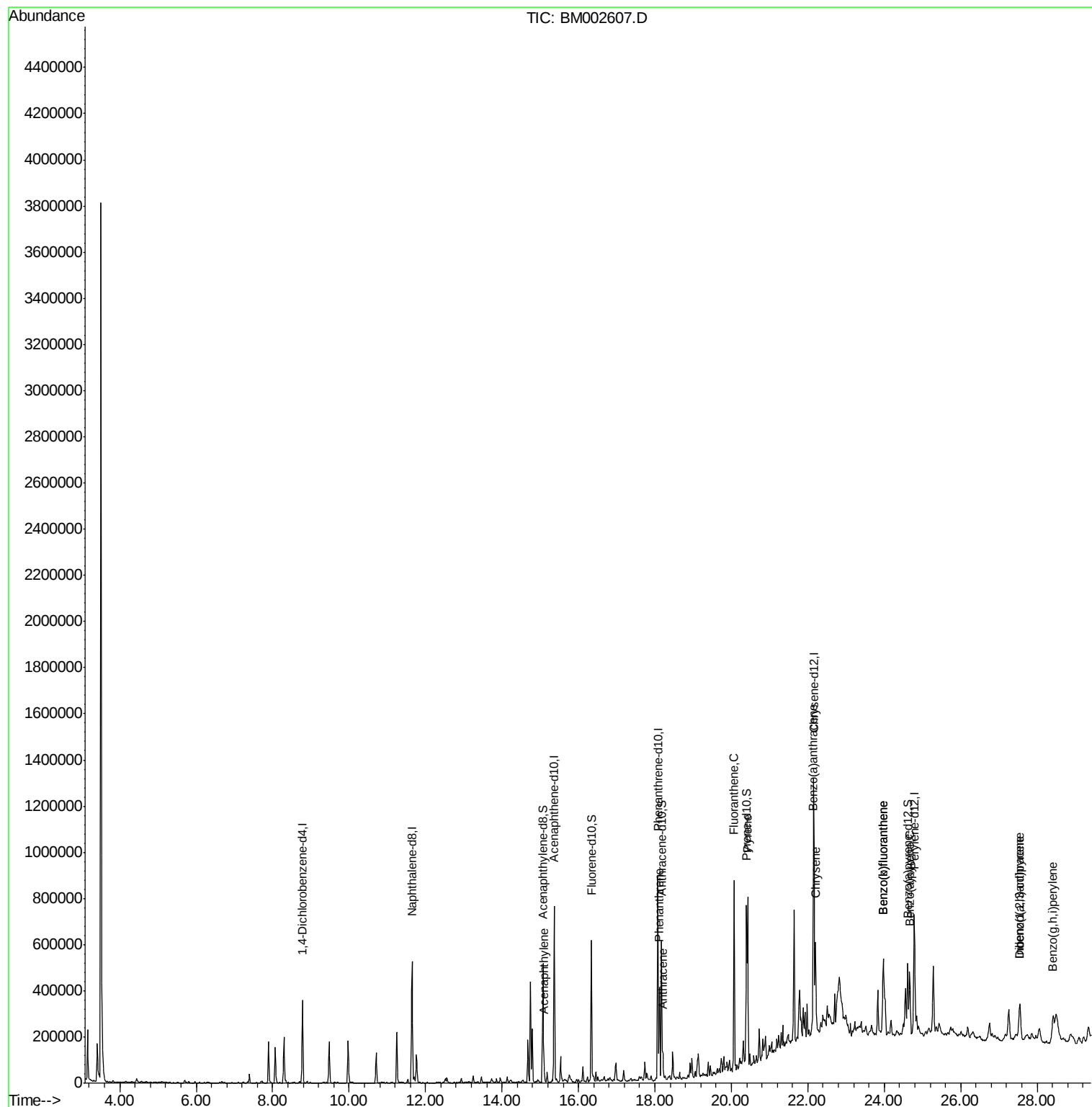
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 8) Acenaphthylene          | 15.10 | 152  | 52753    | 1.86  | ng/ul  | 98     |
| 13) Phenanthrene           | 18.12 | 178  | 252804   | 8.55  | ng/ul  | 99     |
| 15) Anthracene             | 18.21 | 178  | 66546    | 2.22  | ng/ul  | 99     |
| 16) Fluoranthene           | 20.07 | 202  | 482218   | 14.40 | ng/ul  | 96     |
| 19) Pyrene                 | 20.43 | 202  | 412755   | 13.89 | ng/ul  | 99     |
| 20) Benzo(a)anthracene     | 22.14 | 228  | 243782   | 8.04  | ng/ul  | 99     |
| 21) Chrysene               | 22.20 | 228  | 241849   | 8.53  | ng/ul  | 97     |
| 23) Benzo(b)fluoranthene   | 23.97 | 252  | 301320   | 11.55 | ng/ul  | 97     |
| 24) Benzo(k)fluoranthene   | 23.97 | 252  | 77104    | 3.12  | ng/ul  | 98     |
| 26) Benzo(a)pyrene         | 24.67 | 252  | 201604   | 8.09  | ng/ul  | 96     |
| 27) Indeno(1,2,3-cd)pyrene | 27.55 | 276  | 157701   | 5.50  | ng/ul  | 96     |
| 28) Dibenzo(a,h)anthracene | 27.54 | 278  | 45394    | 1.89  | ng/ul# | 73     |
| 29) Benzo(g,h,i)perylene   | 28.41 | 276  | 149737   | 6.28  | ng/ul  | 99     |

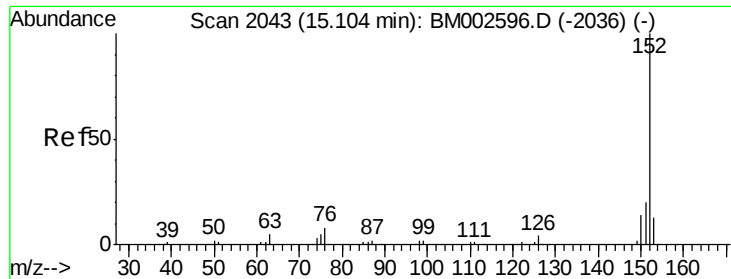
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 01 03:05:38 2015  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM081415MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Sep 01 02:00:58 2015  
Response via : Initial Calibration





#8

Acenaphthylene

Concen: 1.86 ng/ul

RT: 15.10 min Scan# 2042

Delta R.T. -0.01 min

Lab File: BM002607.D

Acq: 01 Sep 2015 02:06

Instrument :

BNA\_M

ClientSampleId :

D9EA0

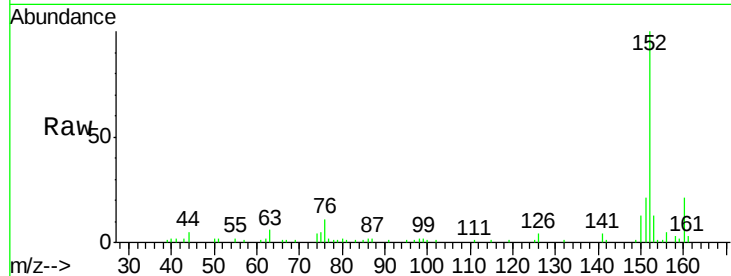
Tgt Ion:152 Resp: 52753

Ion Ratio Lower Upper

152 100

151 21.1 15.7 23.5

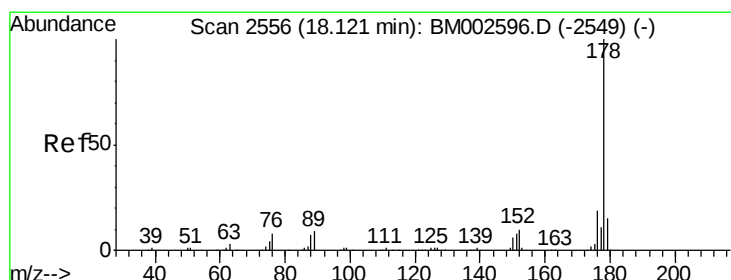
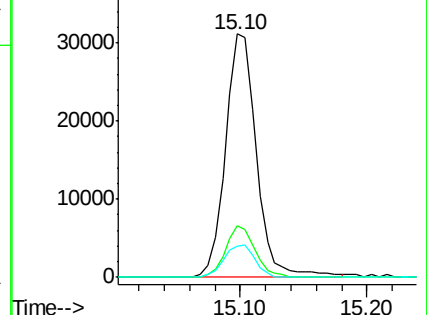
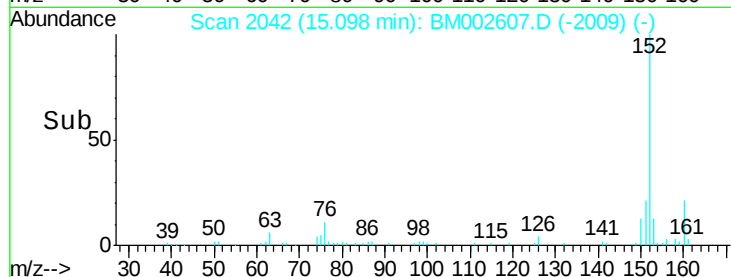
153 13.0 10.2 15.4



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



#13

Phenanthrene

Concen: 8.55 ng/ul

RT: 18.12 min Scan# 2555

Delta R.T. -0.01 min

Lab File: BM002607.D

Acq: 01 Sep 2015 02:06

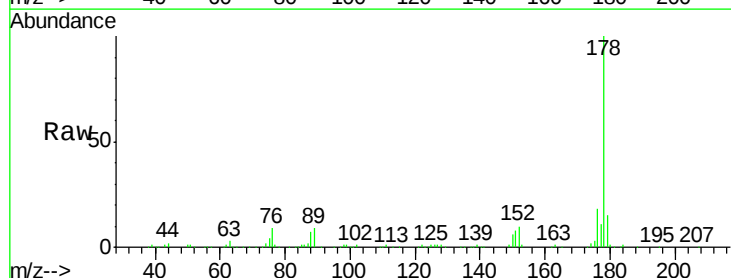
Tgt Ion:178 Resp: 252804

Ion Ratio Lower Upper

178 100

179 15.2 12.4 18.6

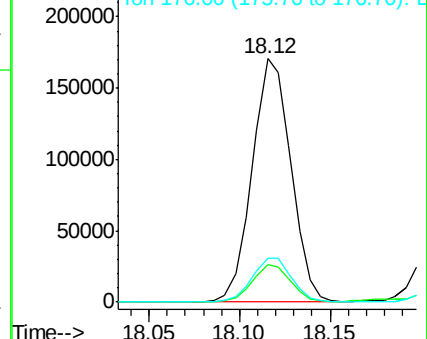
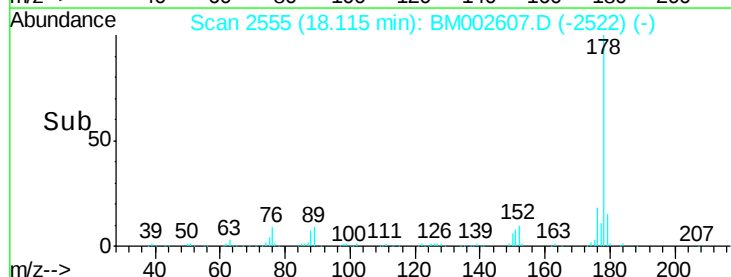
176 18.3 15.1 22.7

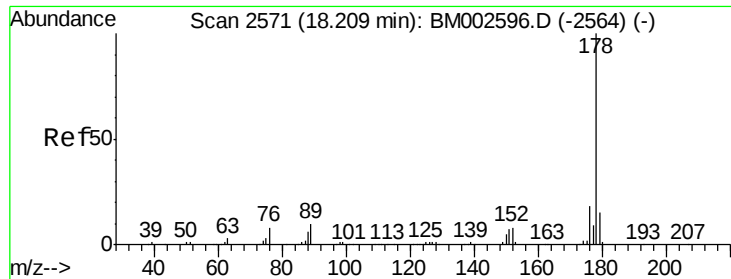


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

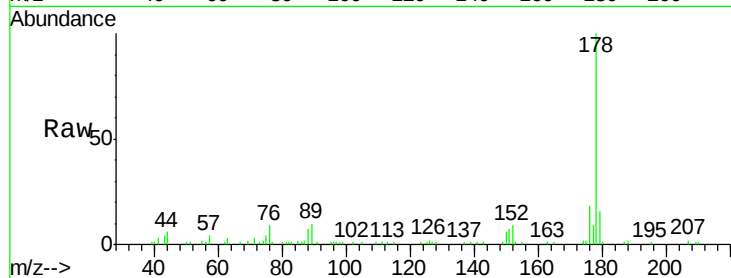




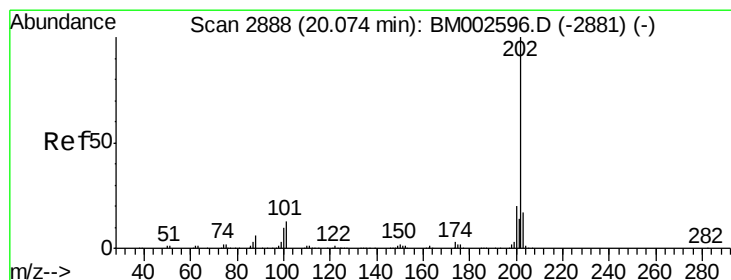
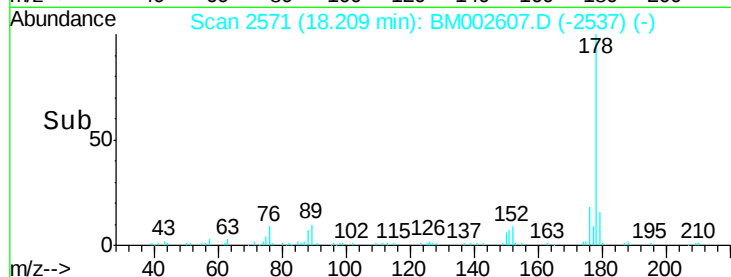
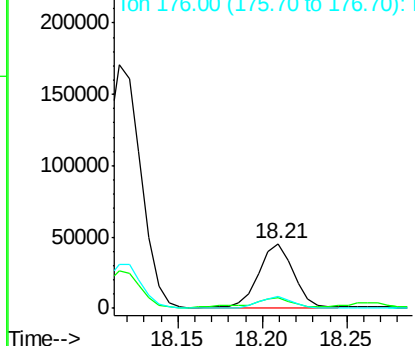
#15  
 Anthracene  
 Concen: 2.22 ng/ul  
 RT: 18.21 min Scan# 2571  
 Delta R.T. 0.00 min  
 Lab File: BM002607.D  
 Acq: 01 Sep 2015 02:06

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9EA0

Tgt Ion:178 Resp: 66546  
 Ion Ratio Lower Upper  
 178 100  
 179 15.7 12.6 18.8  
 176 17.6 14.5 21.7

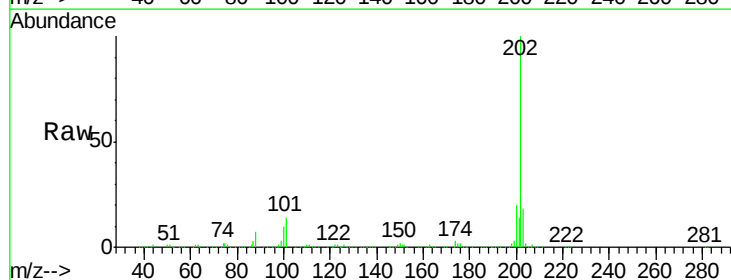


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 179.00 (178.70 to 179.70): E  
 Ion 176.00 (175.70 to 176.70): E

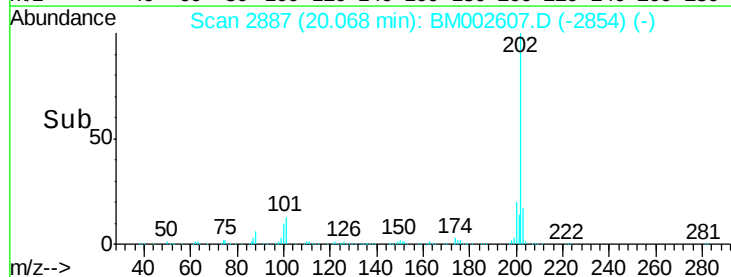
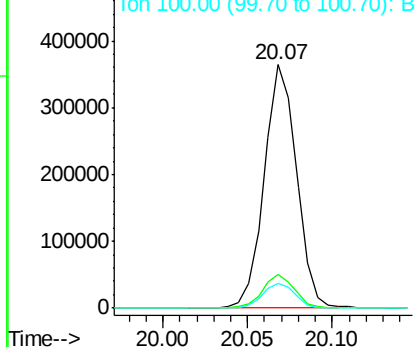


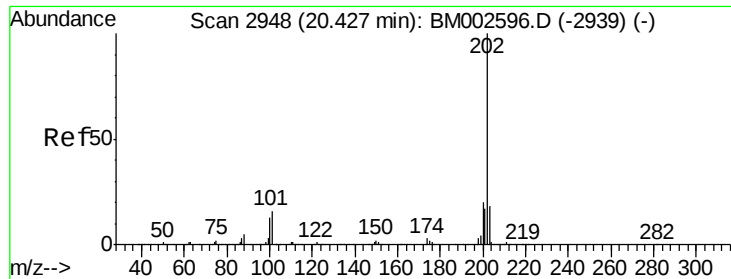
#16  
 Fluoranthene  
 Concen: 14.40 ng/ul  
 RT: 20.07 min Scan# 2887  
 Delta R.T. -0.01 min  
 Lab File: BM002607.D  
 Acq: 01 Sep 2015 02:06

Tgt Ion:202 Resp: 482218  
 Ion Ratio Lower Upper  
 202 100  
 101 13.6 9.7 14.5  
 100 10.4 7.4 11.2



Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 100.00 (99.70 to 100.70): B

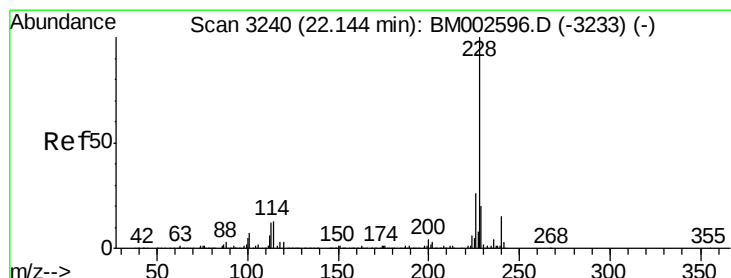
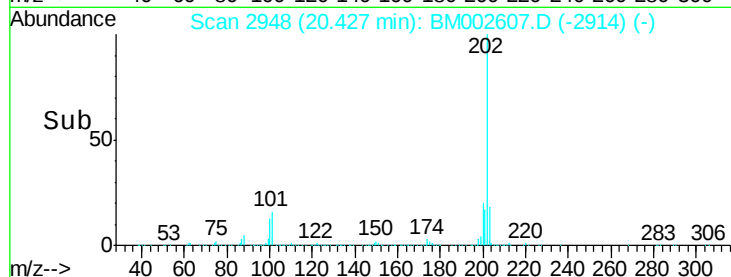
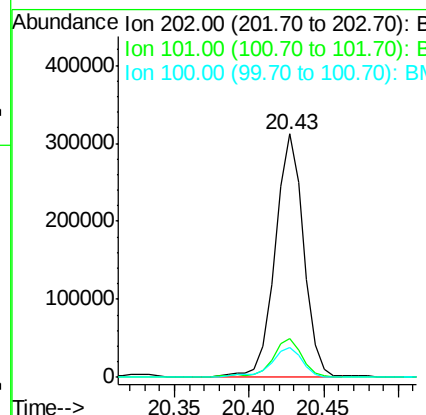
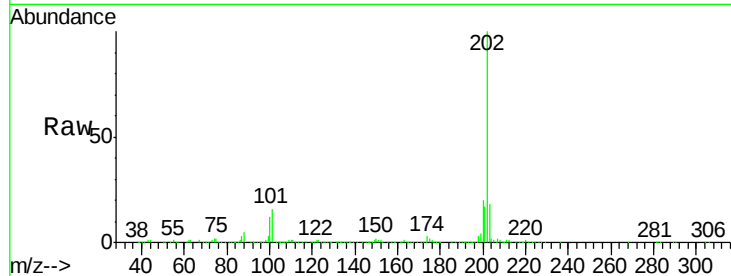




#19  
 Pyrene  
 Concen: 13.89 ng/ul  
 RT: 20.43 min Scan# 2948  
 Delta R.T. 0.00 min  
 Lab File: BM002607.D  
 Acq: 01 Sep 2015 02:06

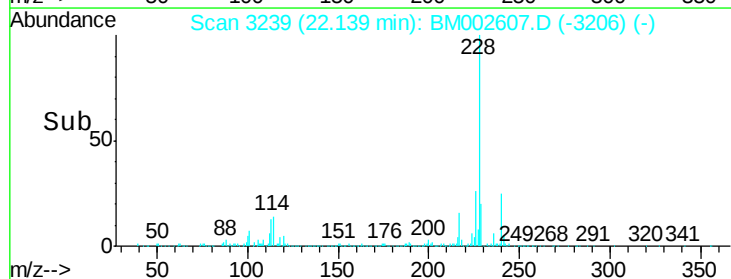
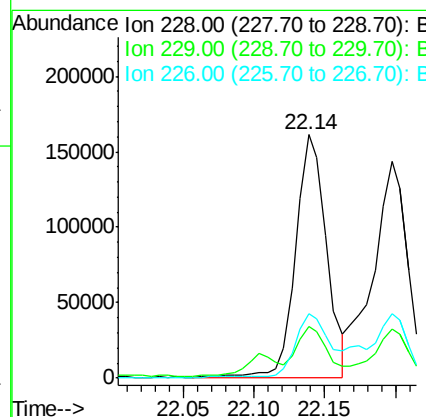
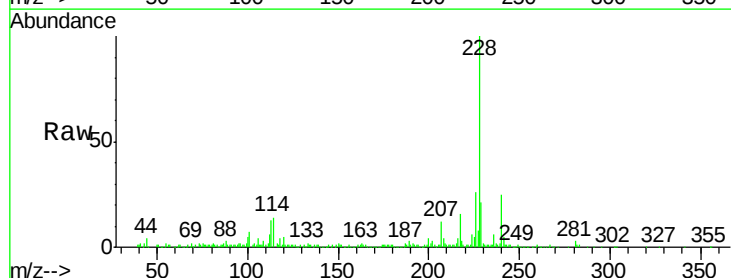
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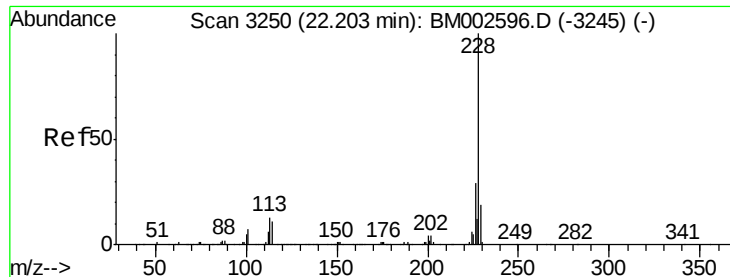
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 15.8  | 12.0  | 18.0  |
| 100     | 12.4  | 9.7   | 14.5  |



#20  
 Benzo(a)anthracene  
 Concen: 8.04 ng/ul  
 RT: 22.14 min Scan# 3239  
 Delta R.T. -0.01 min  
 Lab File: BM002607.D  
 Acq: 01 Sep 2015 02:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.1  | 15.8  | 23.6  |
| 226     | 26.3  | 21.1  | 31.7  |





#21

Chrysene

Concen: 8.53 ng/ul

RT: 22.20 min Scan# 3249

Delta R.T. -0.01 min

Lab File: BM002607.D

Acq: 01 Sep 2015 02:06

Instrument :

BNA\_M

ClientSampleId :

D9EA0

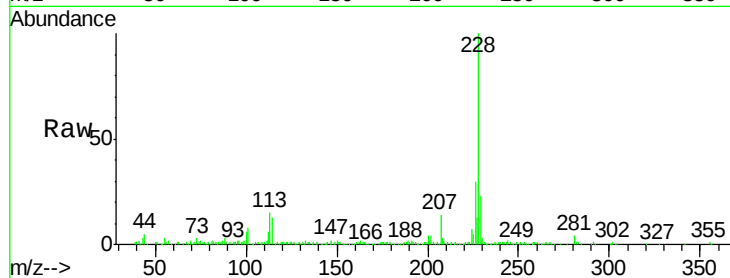
Tgt Ion: 228 Resp: 241849

Ion Ratio Lower Upper

228 100

226 29.6 23.4 35.2

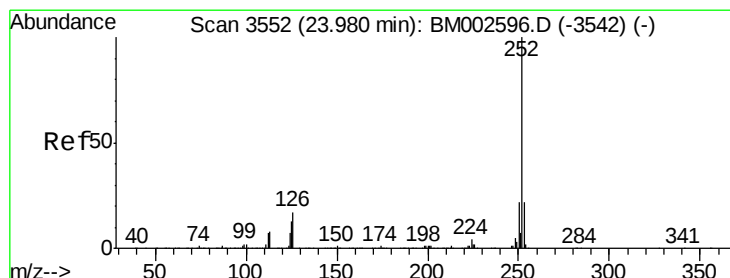
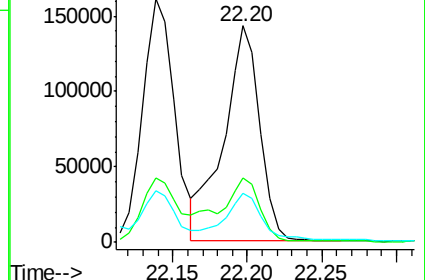
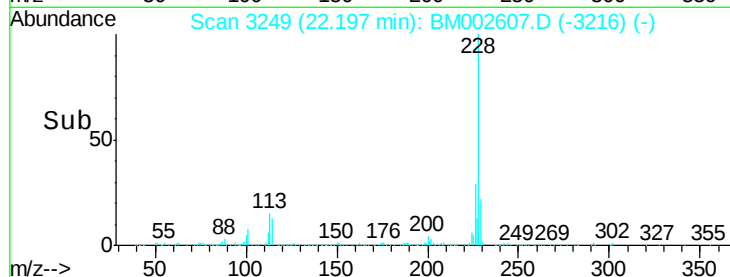
229 22.8 15.7 23.5



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: 11.55 ng/ul

RT: 23.97 min Scan# 3551

Delta R.T. -0.01 min

Lab File: BM002607.D

Acq: 01 Sep 2015 02:06

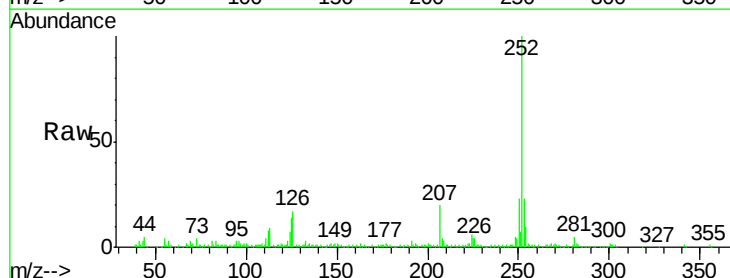
Tgt Ion: 252 Resp: 301320

Ion Ratio Lower Upper

252 100

253 22.6 17.4 26.0

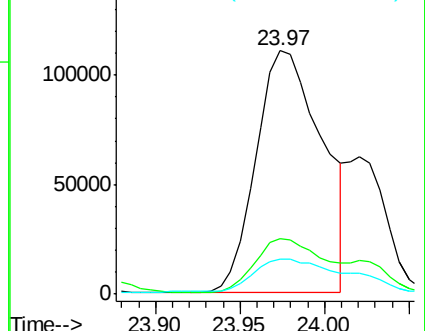
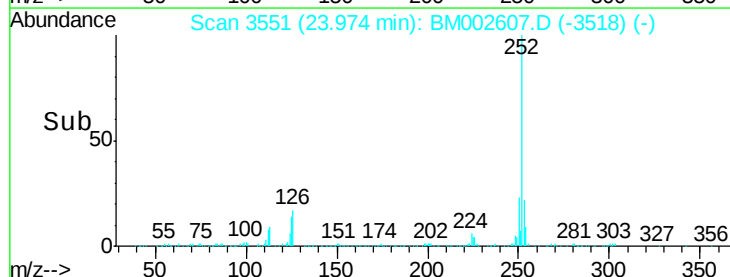
125 14.3 10.0 15.0

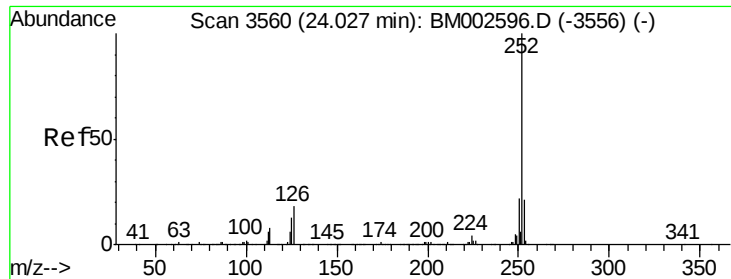


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#24

Benzo(k)fluoranthene

Concen: 3.12 ng/ul

RT: 23.97 min Scan# 3551

Delta R.T. -0.05 min

Lab File: BM002607.D

Acq: 01 Sep 2015 02:06

Instrument :

BNA\_M

ClientSampleId :

D9EA0

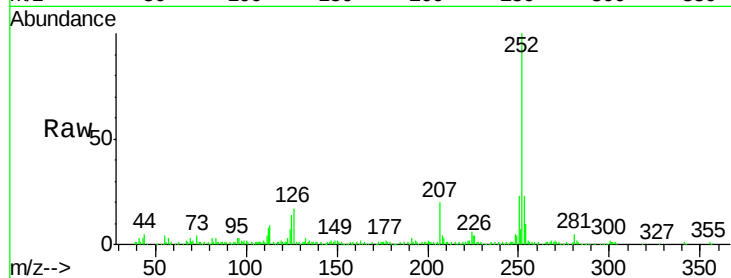
Tgt Ion:252 Resp: 77104

Ion Ratio Lower Upper

252 100

253 22.6 17.8 26.6

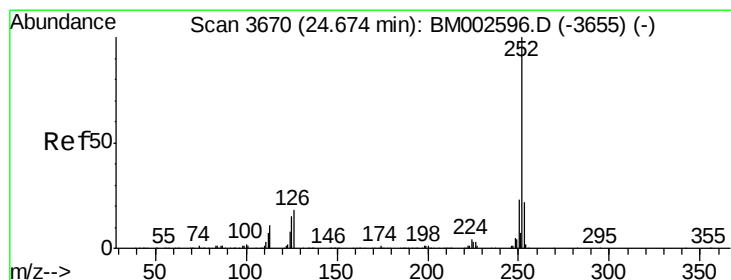
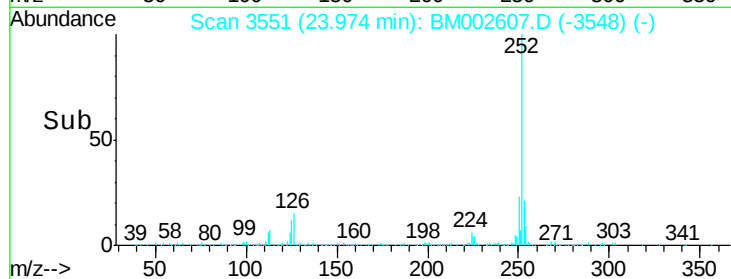
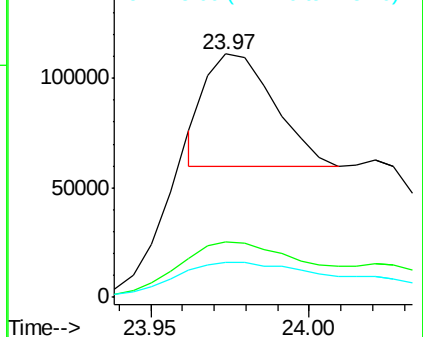
125 14.3 9.8 14.8



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



#26

Benzo(a)pyrene

Concen: 8.09 ng/ul

RT: 24.67 min Scan# 3669

Delta R.T. -0.01 min

Lab File: BM002607.D

Acq: 01 Sep 2015 02:06

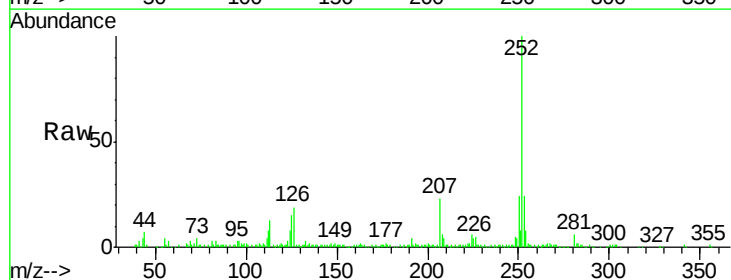
Tgt Ion:252 Resp: 201604

Ion Ratio Lower Upper

252 100

253 23.6 17.6 26.4

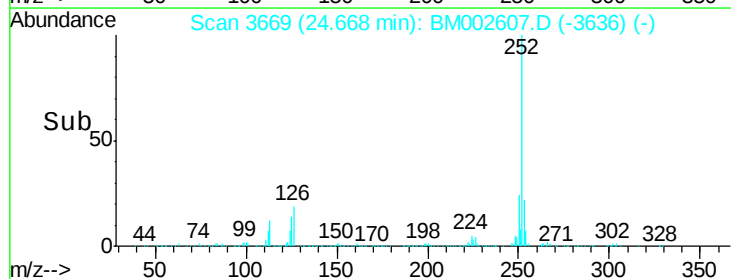
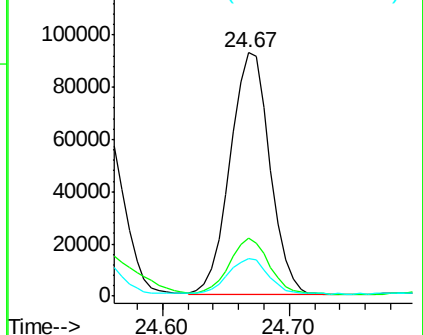
125 15.5 10.7 16.1

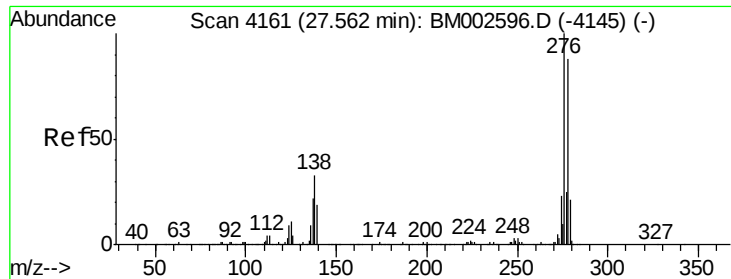


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

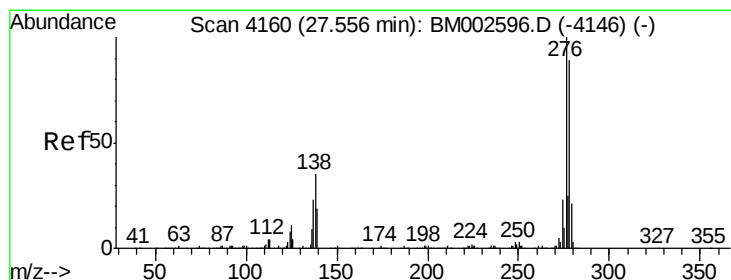
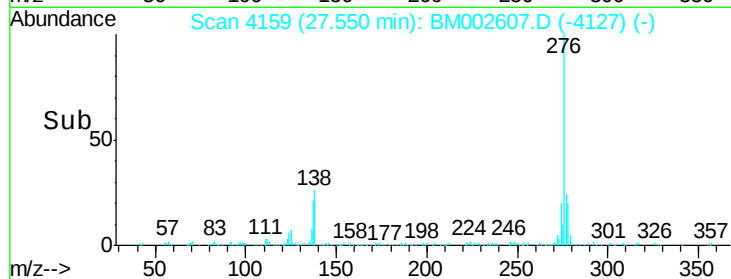
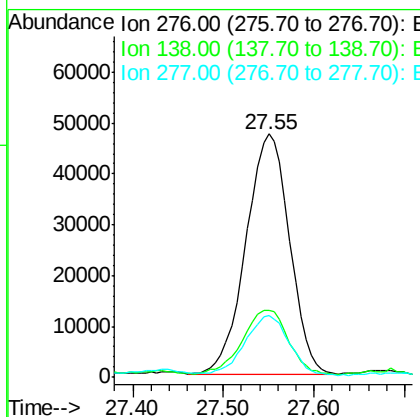
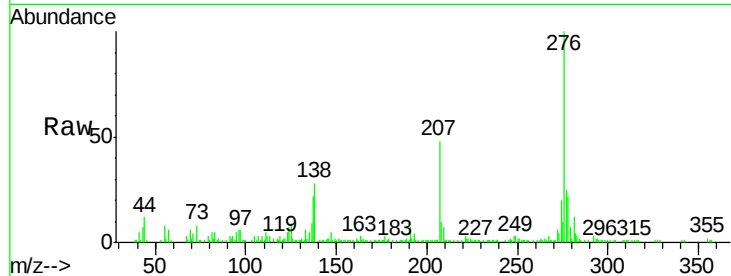




#27  
 Indeno(1,2,3-cd)pyrene  
 Concen: 5.50 ng/ul  
 RT: 27.55 min Scan# 4159  
 Delta R.T. -0.01 min  
 Lab File: BM002607.D  
 Acq: 01 Sep 2015 02:06

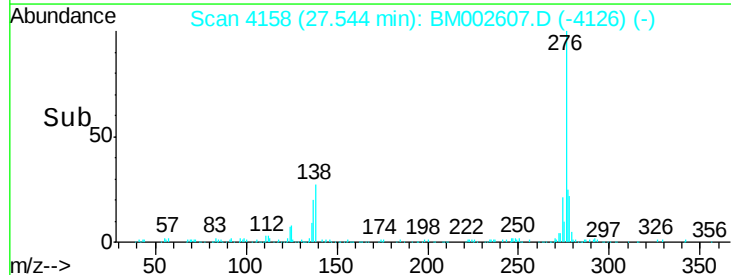
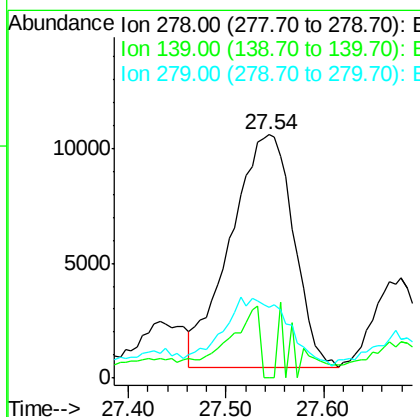
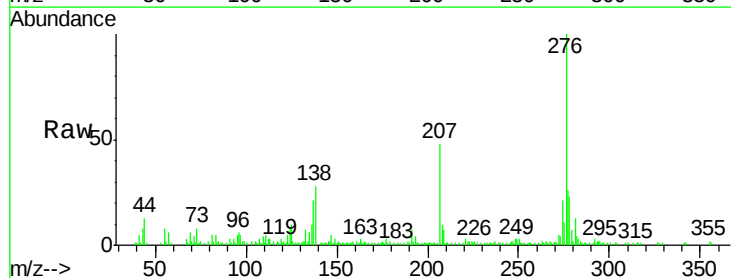
Instrument :  
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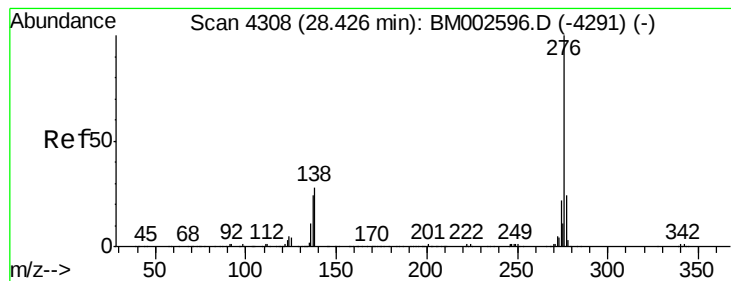
Tgt Ion:276 Resp: 157701  
 Ion Ratio Lower Upper  
 276 100  
 138 27.5 25.3 37.9  
 277 25.3 20.2 30.2



#28  
 Dibenzo(a,h)anthracene  
 Concen: 1.89 ng/ul  
 RT: 27.54 min Scan# 4158  
 Delta R.T. -0.01 min  
 Lab File: BM002607.D  
 Acq: 01 Sep 2015 02:06

Tgt Ion:278 Resp: 45394  
 Ion Ratio Lower Upper  
 278 100  
 139 0.0 16.5 24.7#  
 279 29.2 18.8 28.2#





#29

Benzo(g,h,i)perylene

Concen: 6.28 ng/ul

RT: 28.41 min Scan# 4306

Delta R.T. -0.01 min

Lab File: BM002607.D

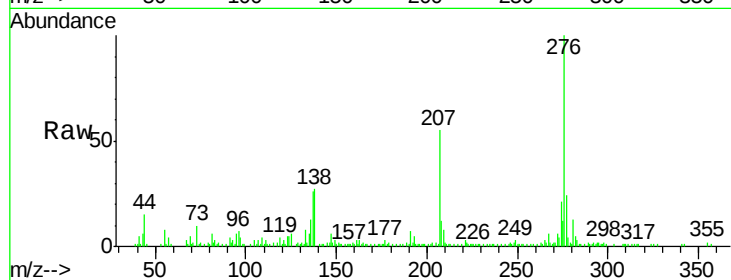
Acq: 01 Sep 2015 02:06

Instrument :

BNA\_M

ClientSampleId :

D9EA0



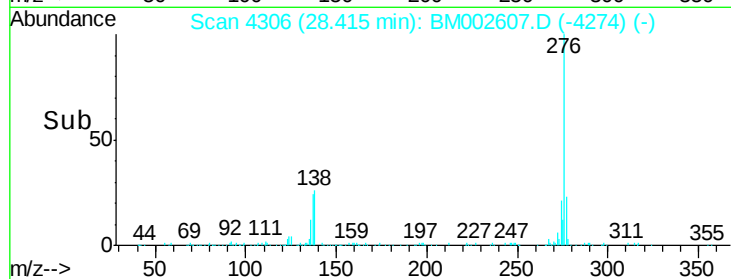
Tgt Ion: 276 Resp: 149737

Ion Ratio Lower Upper

276 100

138 27.2 21.0 31.6

277 24.4 19.2 28.8



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

