

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM072315\  
 Data File : BM002020.D  
 Acq On : 23 Jul 2015 17:22  
 Operator : TP/UM  
 Sample : G3000-15RE  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C02C2RE

Quant Time: Jul 24 01:59:42 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM071315.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Jul 24 01:29:30 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.62  | 152  | 77078    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.40 | 136  | 290750   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.28 | 164  | 160574   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.03 | 188  | 342789   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.23 | 240  | 387470   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.44 | 264  | 393955   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.09  | 96  | 9063   | 5.75  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.79  | 99  | 202245 | 32.13 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.95  | 67  | 112474 | 32.80 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.15  | 132 | 178134 | 35.65 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.33  | 113 | 164875 | 31.90 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.77  | 128 | 78275  | 36.04 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.49  | 143 | 87537  | 36.38 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.03 | 165 | 163854 | 33.68 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.55 | 131 | 156192 | 31.20 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.69 | 166 | 416093 | 32.13 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.97 | 160 | 435774 | 27.98 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.49 | 143 | 66660  | 30.39 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.27 | 176 | 269476 | 24.35 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.41 | 200 | 21258  | 9.58  | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.13 | 188 | 393774 | 24.47 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.43 | 212 | 372767 | 21.06 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.30 | 264 | 360929 | 18.12 | ng/ul | 0.00 |

## Target Compounds

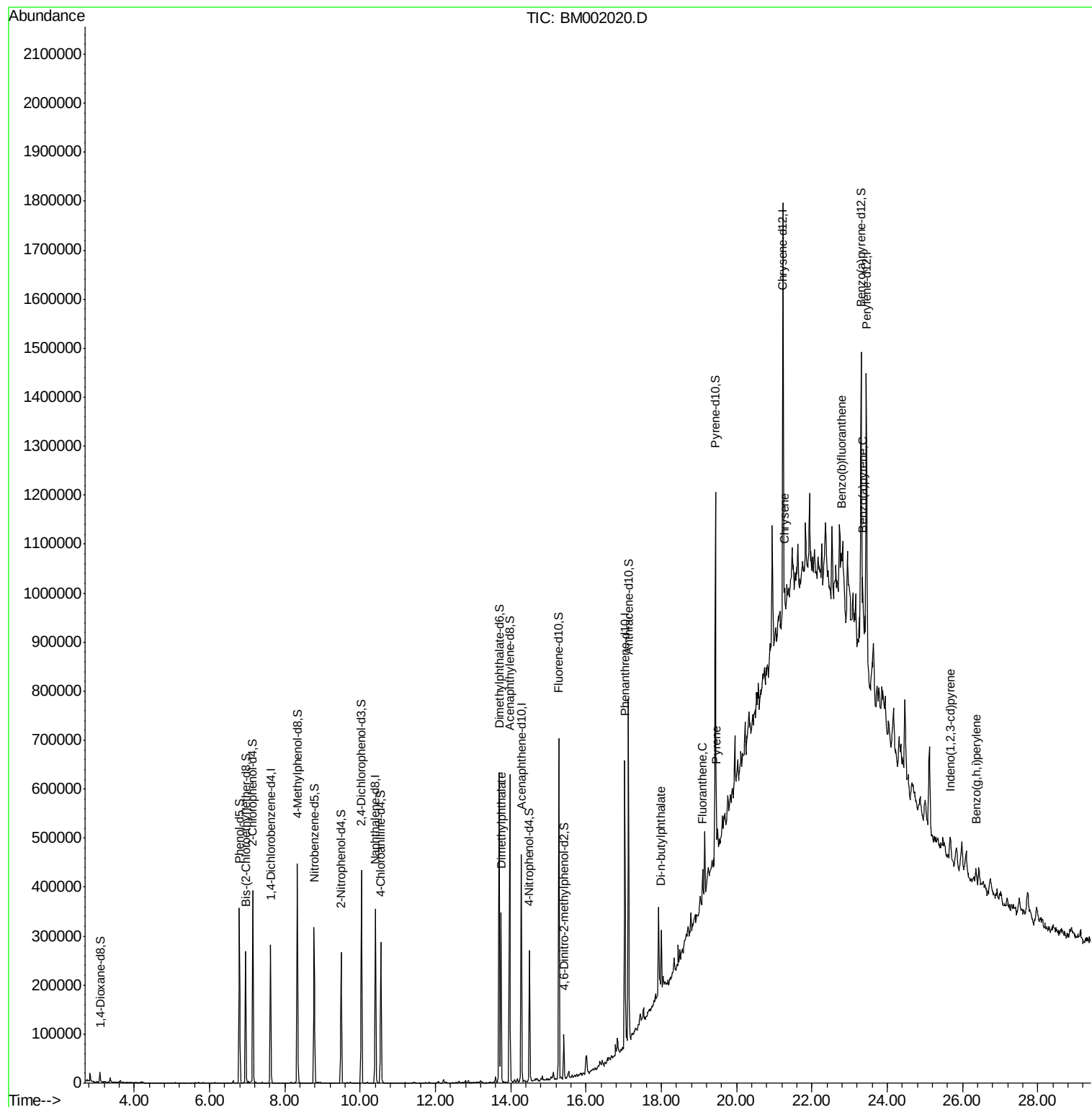
|                            |       |     |        |       |        | Qvalue |
|----------------------------|-------|-----|--------|-------|--------|--------|
| 44) Dimethylphthalate      | 13.74 | 163 | 219235 | 16.64 | ng/ul  | 99     |
| 75) Di-n-butylphthalate    | 18.00 | 149 | 90539  | 4.54  | ng/ul  | 97     |
| 76) Fluoranthene           | 19.09 | 202 | 36448  | 1.68  | ng/ul# | 97     |
| 79) Pyrene                 | 19.46 | 202 | 38733  | 1.67  | ng/ul  | 97     |
| 84) Chrysene               | 21.26 | 228 | 27270  | 1.26  | ng/ul# | 85     |
| 87) Benzo(b)fluoranthene   | 22.78 | 252 | 55635  | 2.30  | ng/ul# | 62     |
| 90) Benzo(a)pyrene         | 23.35 | 252 | 29511  | 1.30  | ng/ul# | 54     |
| 91) Indeno(1,2,3-cd)pyrene | 25.67 | 276 | 30165  | 1.27  | ng/ul# | 93     |
| 93) Benzo(g,h,i)perylene   | 26.35 | 276 | 30178  | 1.54  | ng/ul# | 86     |

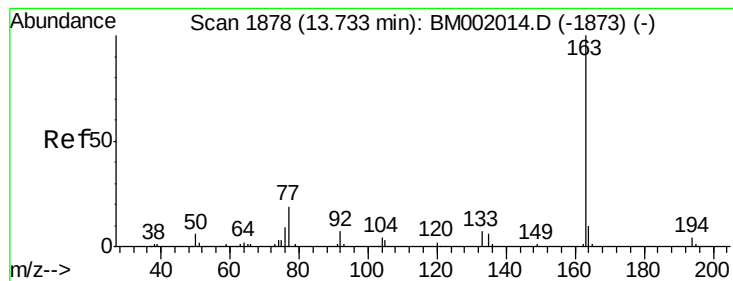
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#44

Dimethylphthalate

Concen: 16.64 ng/ul

RT: 13.74 min Scan# 1879

Delta R.T. 0.01 min

Lab File: BM002020.D

Acq: 23 Jul 2015 17:22

Instrument :

BNA\_M

ClientSampleId :

C02C2RE

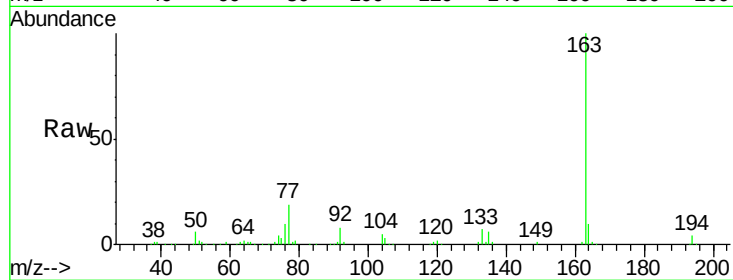
Tgt Ion:163 Resp: 219235

Ion Ratio Lower Upper

163 100

194 4.2 3.5 5.3

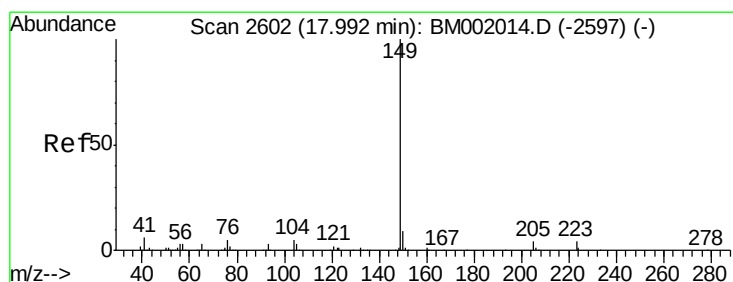
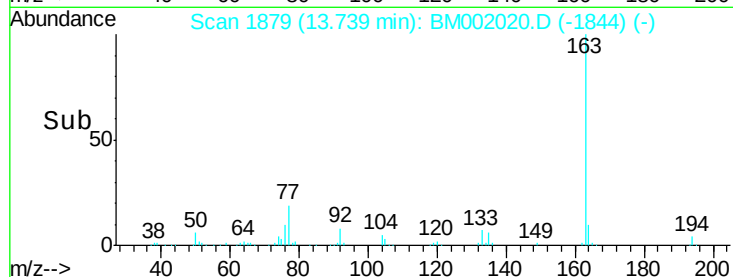
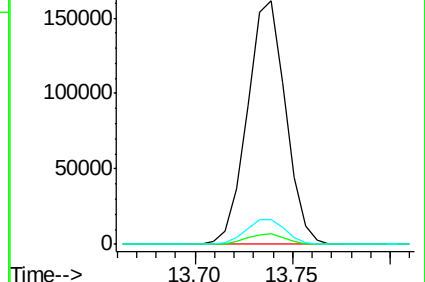
164 10.0 8.2 12.4



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#75

Di-n-butylphthalate

Concen: 4.54 ng/ul

RT: 18.00 min Scan# 2603

Delta R.T. 0.01 min

Lab File: BM002020.D

Acq: 23 Jul 2015 17:22

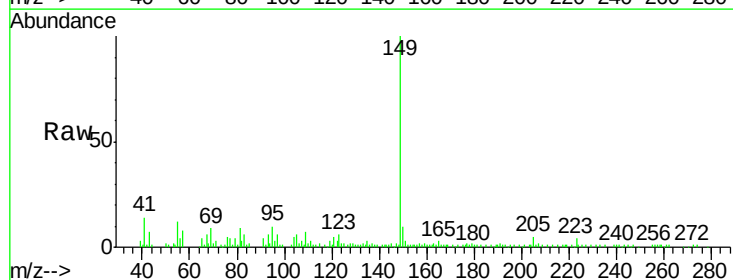
Tgt Ion:149 Resp: 90539

Ion Ratio Lower Upper

149 100

150 10.5 7.3 10.9

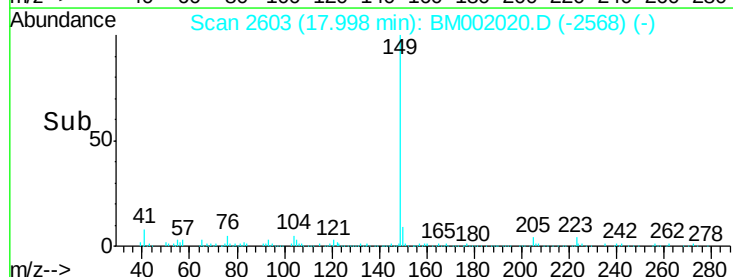
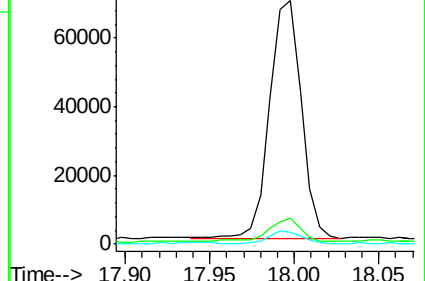
104 5.0 4.3 6.5

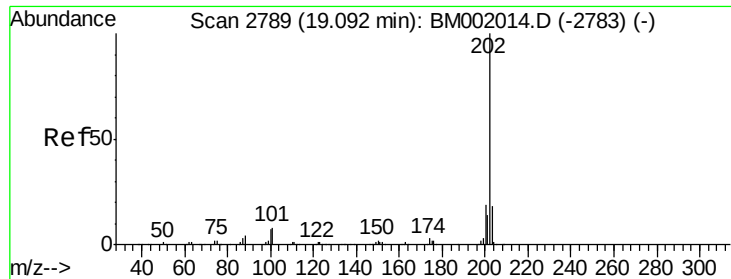


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E

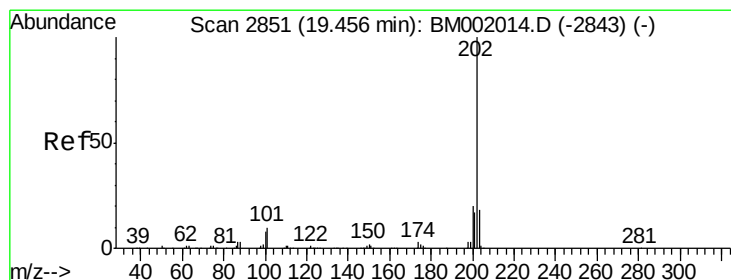
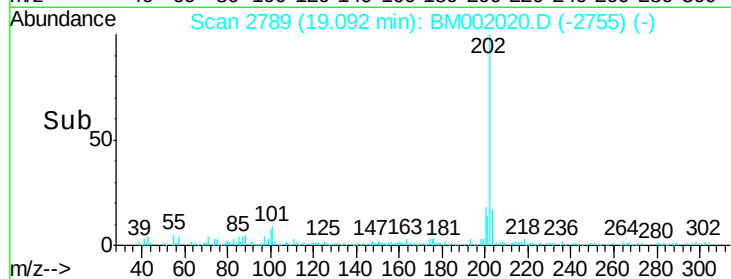
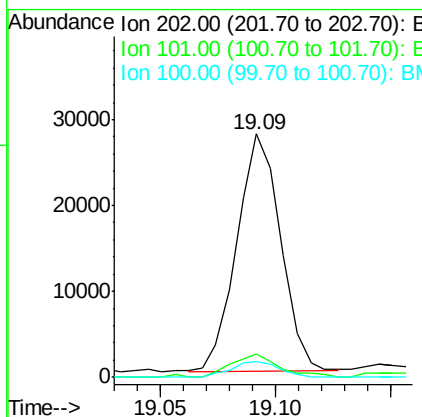
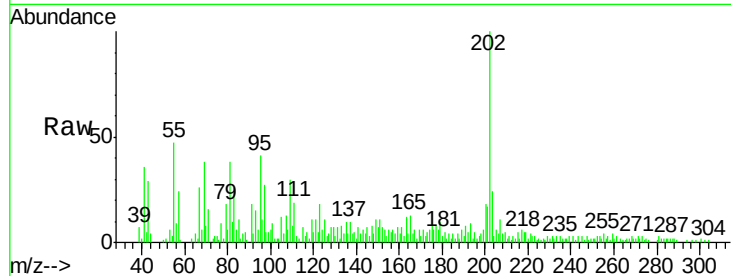




#76  
Fluoranthene  
Concen: 1.68 ng/ul  
RT: 19.09 min Scan# 2789  
Delta R.T. -0.00 min  
Lab File: BM002020.D  
Acq: 23 Jul 2015 17:22

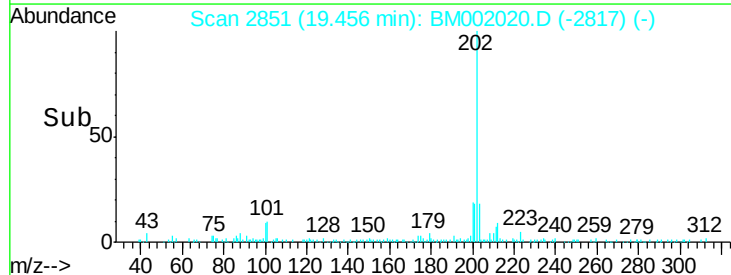
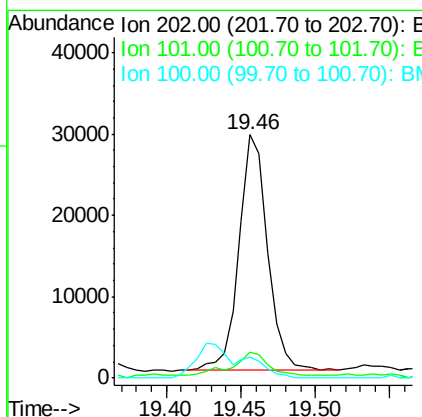
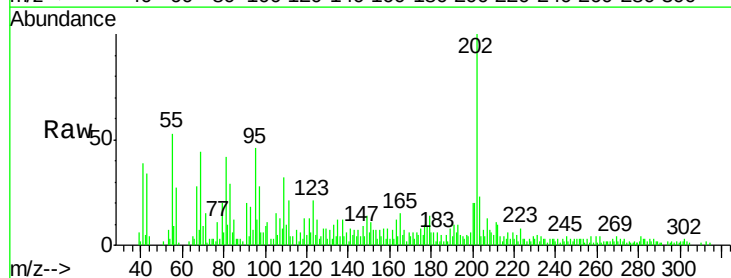
Instrument :  
BNA\_M  
ClientSampleId :  
C02C2RE

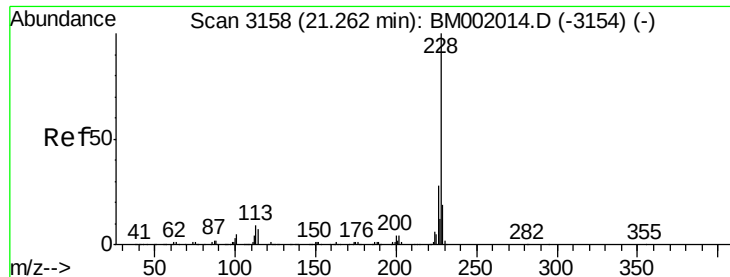
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.5   | 6.3   | 9.5#  |
| 100     | 6.5   | 5.0   | 7.4   |



#79  
Pyrene  
Concen: 1.67 ng/ul  
RT: 19.46 min Scan# 2851  
Delta R.T. -0.00 min  
Lab File: BM002020.D  
Acq: 23 Jul 2015 17:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.6  | 7.3   | 10.9  |
| 100     | 8.6   | 6.2   | 9.4   |





#84

Chrysene

Concen: 1.26 ng/ul

RT: 21.26 min Scan# 3158

Delta R.T. -0.00 min

Lab File: BM002020.D

Acq: 23 Jul 2015 17:22

Instrument :

BNA\_M

ClientSampleId :

C02C2RE

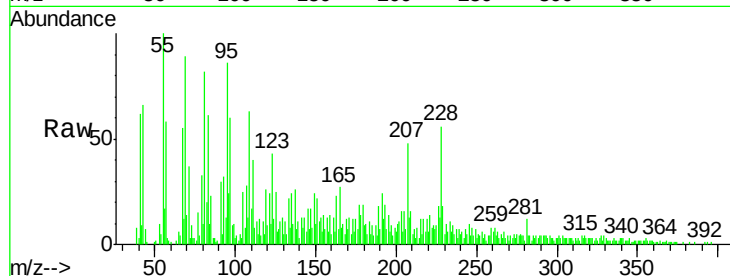
Tgt Ion:228 Resp: 27270

Ion Ratio Lower Upper

228 100

226 32.0 23.0 34.4

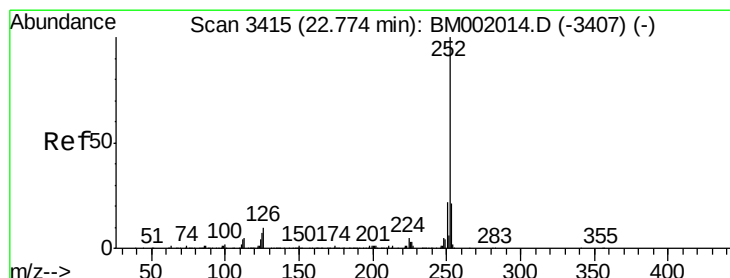
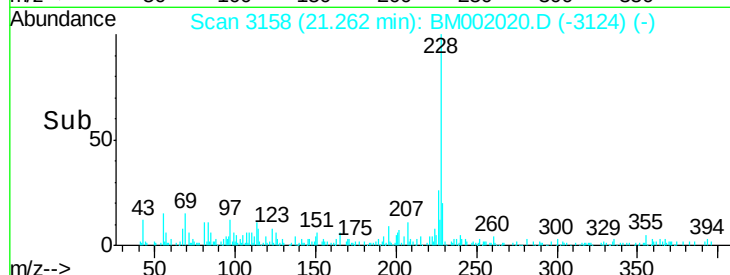
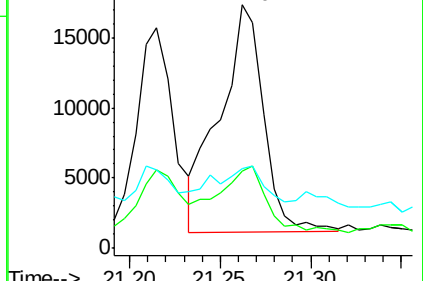
229 32.7 15.6 23.4#



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



#87

Benzo(b)fluoranthene

Concen: 2.30 ng/ul

RT: 22.78 min Scan# 3416

Delta R.T. 0.01 min

Lab File: BM002020.D

Acq: 23 Jul 2015 17:22

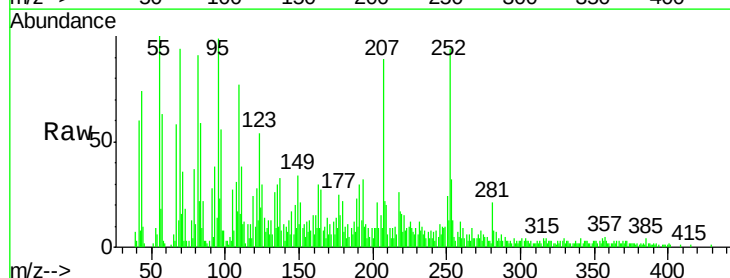
Tgt Ion:252 Resp: 55635

Ion Ratio Lower Upper

252 100

253 34.1 17.2 25.8#

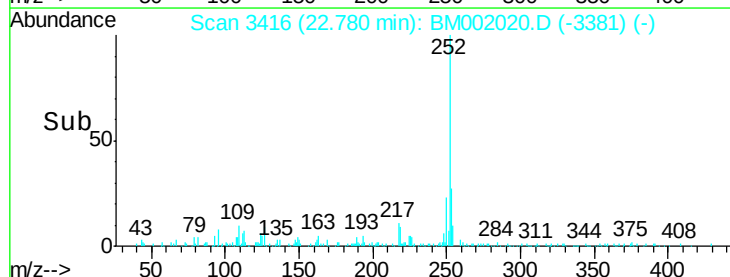
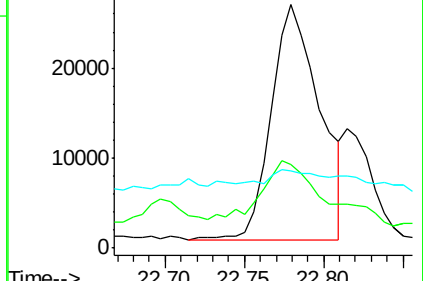
125 31.6 5.3 7.9#

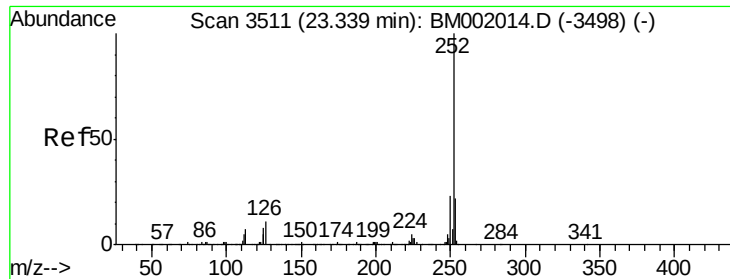


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 1.30 ng/ul

RT: 23.35 min Scan# 3513

Delta R.T. 0.01 min

Lab File: BM002020.D

Acq: 23 Jul 2015 17:22

Instrument :

BNA\_M

ClientSampleId :

C02C2RE

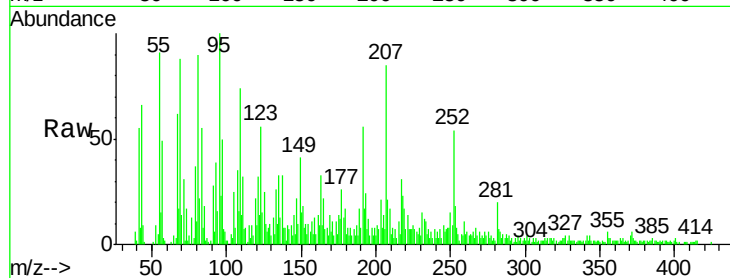
Tgt Ion:252 Resp: 29511

Ion Ratio Lower Upper

252 100

253 33.0 17.6 26.4#

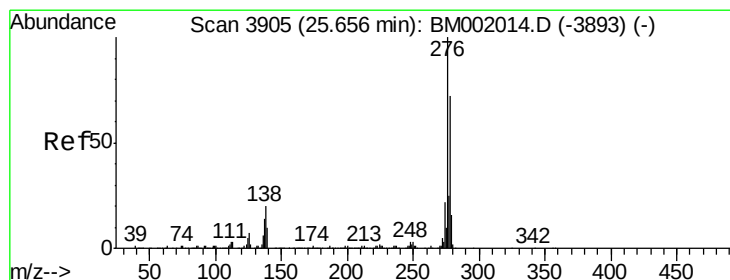
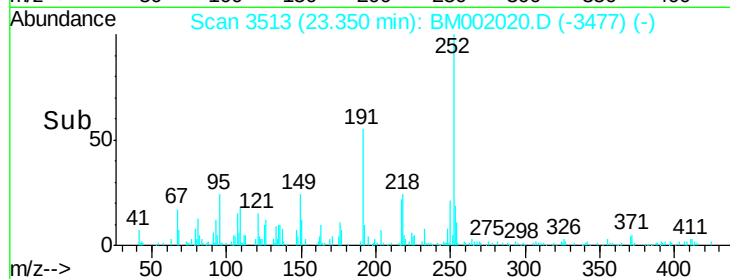
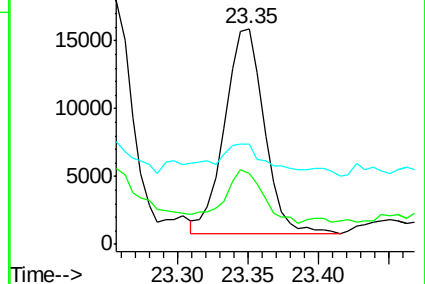
125 46.6 6.0 9.0#



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



#91

Indeno(1,2,3-cd)pyrene

Concen: 1.27 ng/ul

RT: 25.67 min Scan# 3907

Delta R.T. 0.01 min

Lab File: BM002020.D

Acq: 23 Jul 2015 17:22

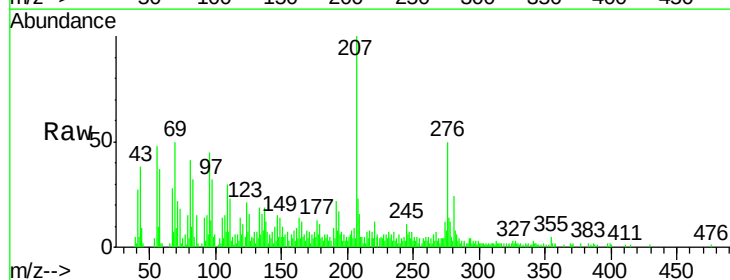
Tgt Ion:276 Resp: 30165

Ion Ratio Lower Upper

276 100

138 23.2 15.2 22.8#

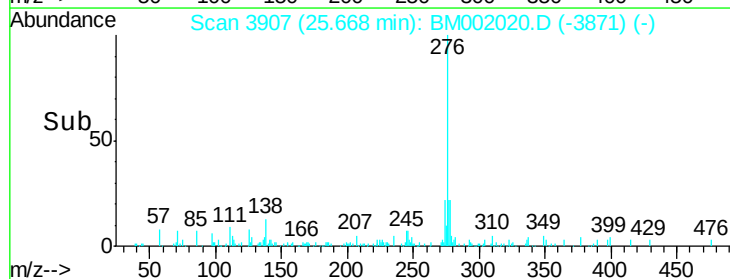
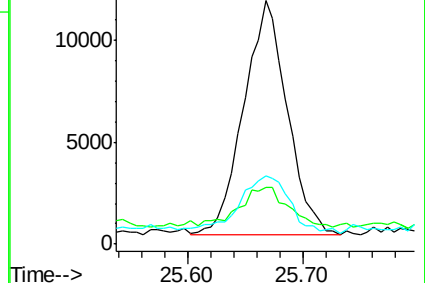
277 28.1 20.1 30.1

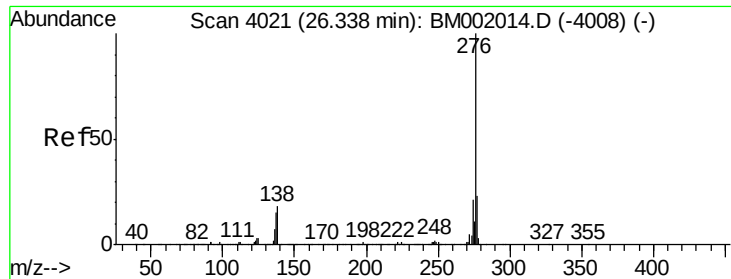


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#93

Benzo(g,h,i)perylene

Concen: 1.54 ng/ul

RT: 26.35 min Scan# 4023

Delta R.T. 0.01 min

Lab File: BM002020.D

Acq: 23 Jul 2015 17:22

Instrument :

BNA\_M

ClientSampleId :

C02C2RE

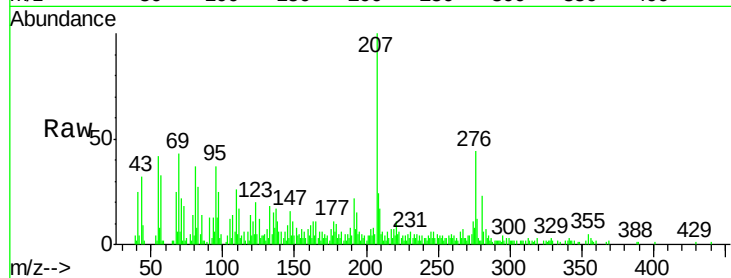
Tgt Ion:276 Resp: 30178

Ion Ratio Lower Upper

276 100

138 25.2 12.7 19.1#

277 27.8 18.6 28.0



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

