

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
 Data File : BG020383.D  
 Acq On : 21 Dec 2015 19:07  
 Operator : UM/SJ  
 Sample : G4768-05DL 50X  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N29DL

Quant Time: Dec 22 07:41:33 2015  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Dec 22 02:00:19 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.09  | 152  | 17319    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.91 | 136  | 76825    | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.73 | 164  | 49696    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.47 | 188  | 119800   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.74 | 240  | 140889   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 25.02 | 264  | 111073   | 20.00 | ng/ul | -0.01    |

| System Monitoring Compounds    | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|-------|------|----------|------|-------|----------|
| 3) 1,4-Dioxane-d8              | 0.00  | 96   | 0        | 0.00 | ng/uL |          |
| 5) Phenol-d5                   | 0.00  | 99   | 0d       | 0.00 | ng/ul |          |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.41  | 67   | 549      | 0.60 | ng/ul | 0.00     |
| 9) 2-Chlorophenol-d4           | 7.62  | 132  | 459      | 0.41 | ng/ul | 0.00     |
| 13) 4-Methylphenol-d8          | 0.00  | 113  | 0d       | 0.00 | ng/ul |          |
| 19) Nitrobenzene-d5            | 9.27  | 128  | 260      | 0.43 | ng/ul | 0.00     |
| 22) 2-Nitrophenol-d4           | 9.99  | 143  | 325      | 0.49 | ng/ul | 0.00     |
| 26) 2,4-Dichlorophenol-d3      | 10.53 | 165  | 679      | 0.50 | ng/ul | 0.00     |
| 29) 4-Chloroaniline-d4         | 0.00  | 131  | 0        | 0.00 | ng/ul |          |
| 44) Dimethylphthalate-d6       | 14.12 | 166  | 2684     | 0.67 | ng/ul | 0.00     |
| 47) Acenaphthylene-d8          | 14.42 | 160  | 3647     | 0.78 | ng/ul | 0.00     |
| 52) 4-Nitrophenol-d4           | 0.00  | 143  | 0        | 0.00 | ng/ul |          |
| 58) Fluorene-d10               | 15.71 | 176  | 3138     | 0.86 | ng/ul | 0.00     |
| 63) 4,6-Dinitro-2-methylphenol | 0.00  | 200  | 0        | 0.00 | ng/ul |          |
| 71) Anthracene-d10             | 17.56 | 188  | 6241     | 1.13 | ng/ul | -0.01    |
| 79) Pyrene-d10                 | 19.84 | 212  | 5186     | 0.79 | ng/ul | 0.00     |
| 90) Benzo(a)pyrene-d12         | 24.80 | 264  | 3904     | 0.70 | ng/ul | 0.00     |

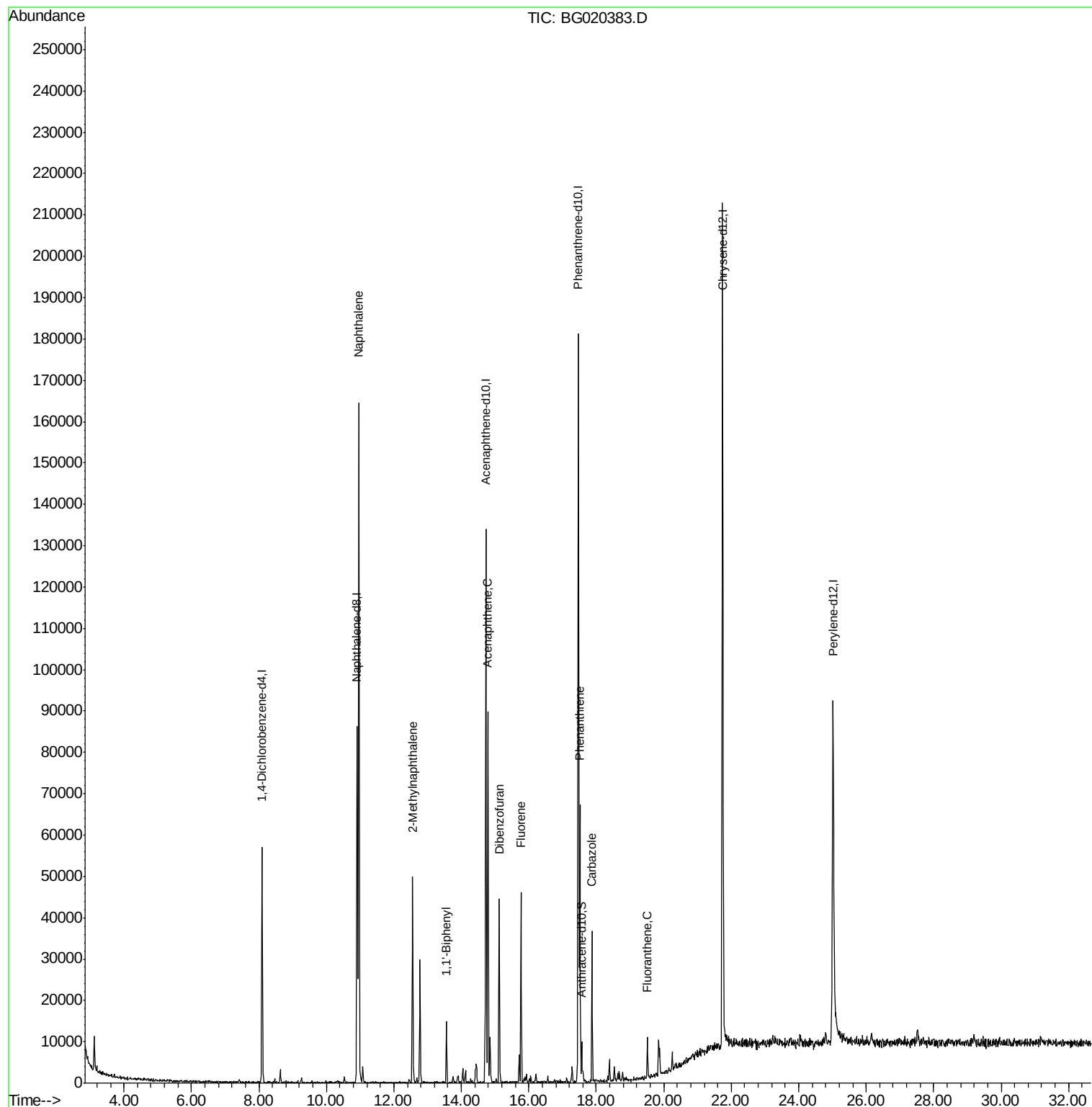
| Target Compounds        | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|-------------------------|-------|------|----------|-------|--------|--------|
| 28) Naphthalene         | 10.96 | 128  | 146164   | 36.43 | ng/ul  | 97     |
| 34) 2-Methylnaphthalene | 12.56 | 142  | 25423    | 8.30  | ng/ul  | 93     |
| 41) 1,1'-Biphenyl       | 13.56 | 154  | 8577     | 2.29  | ng/ul  | 94     |
| 50) Acenaphthene        | 14.79 | 153  | 39717    | 11.88 | ng/ul  | 99     |
| 54) Dibenzofuran        | 15.12 | 168  | 30612    | 6.16  | ng/ul  | 96     |
| 59) Fluorene            | 15.77 | 166  | 21841    | 5.47  | ng/ul  | 98     |
| 70) Phenanthrene        | 17.51 | 178  | 46133    | 7.04  | ng/ul  | 99     |
| 75) Carbazole           | 17.87 | 167  | 24839    | 4.45  | ng/ul# | 97     |
| 77) Fluoranthene        | 19.52 | 202  | 7778     | 1.02  | ng/ul  | 97     |

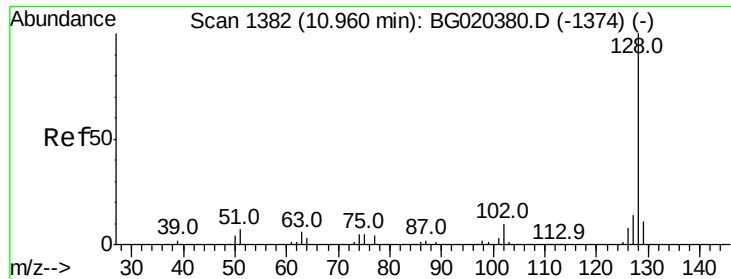
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#28

Naphthalene

Concen: 36.43 ng/ul

RT: 10.96 min Scan# 1382

Delta R.T. 0.00 min

Lab File: BG020383.D

Acq: 21 Dec 2015 19:07

Instrument :

BNA\_G

ClientSampleId :

D9N29DL

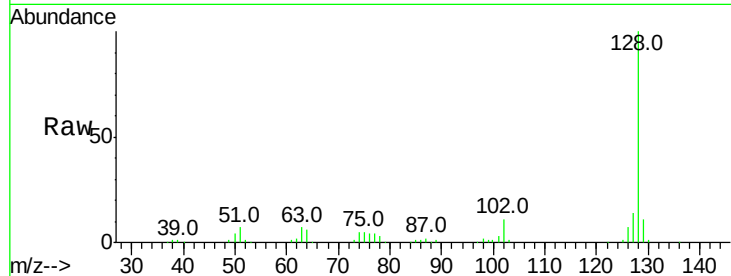
Tot Ion:128 Resp: 146164

Ion Ratio Lower Upper

128 100

129 11.5 8.6 12.8

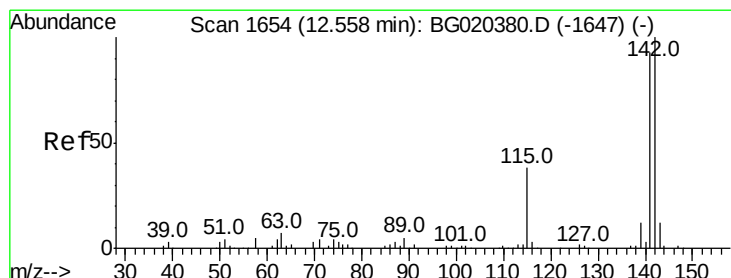
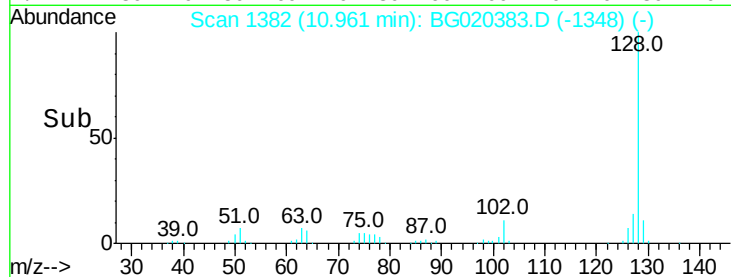
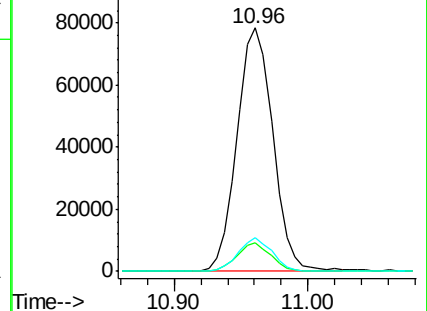
127 14.0 10.1 15.1



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



#34

2-Methylnaphthalene

Concen: 8.30 ng/ul

RT: 12.56 min Scan# 1654

Delta R.T. 0.00 min

Lab File: BG020383.D

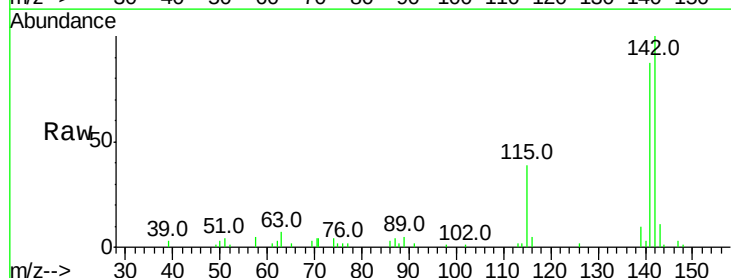
Acq: 21 Dec 2015 19:07

Tgt Ion:142 Resp: 25423

Ion Ratio Lower Upper

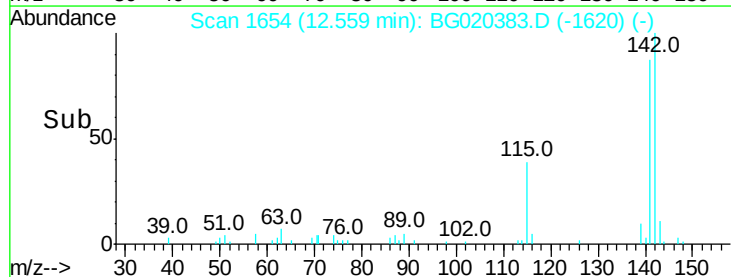
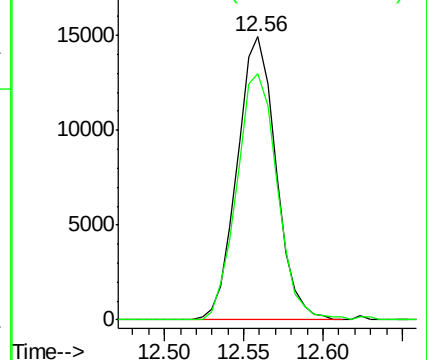
142 100

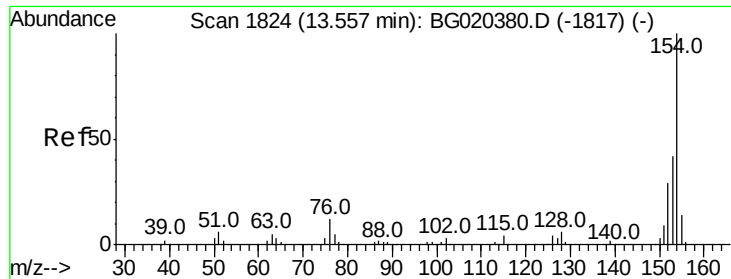
141 87.1 74.9 112.3



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

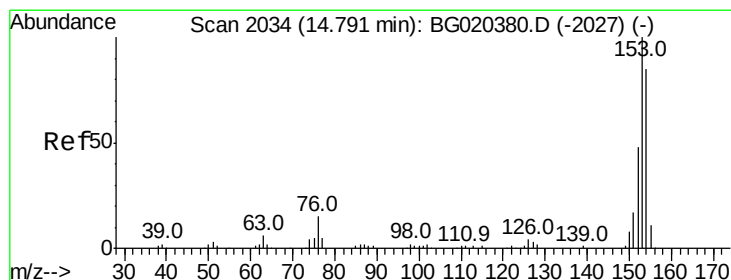
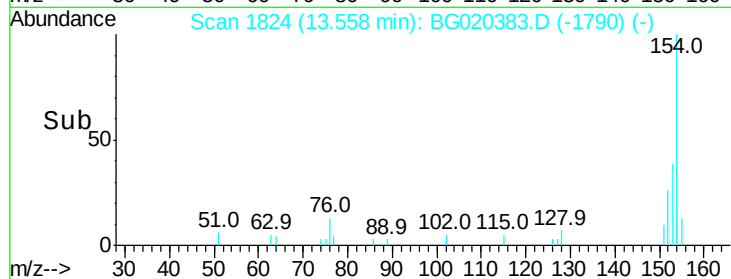
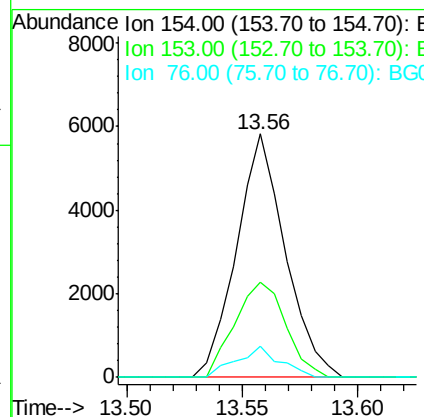
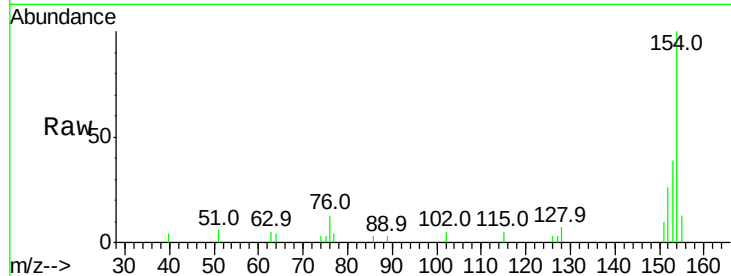




#41  
 1,1'-Biphenyl  
 Concen: 2.29 ng/ul  
 RT: 13.56 min Scan# 1824  
 Delta R.T. 0.00 min  
 Lab File: BG020383.D  
 Acq: 21 Dec 2015 19:07

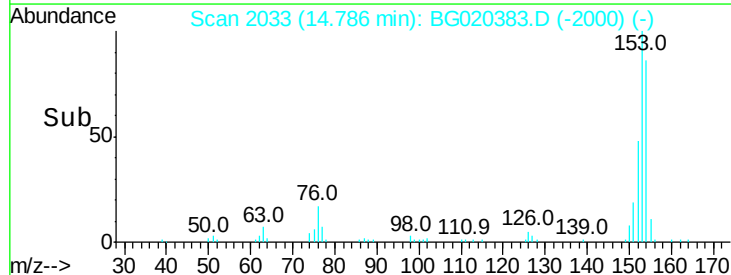
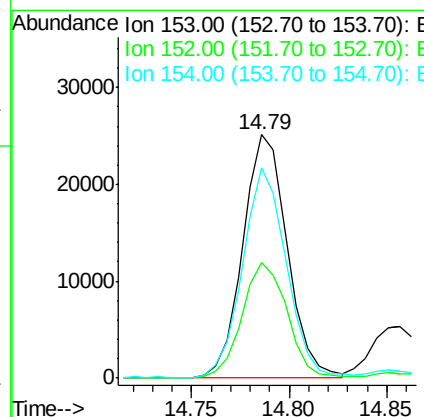
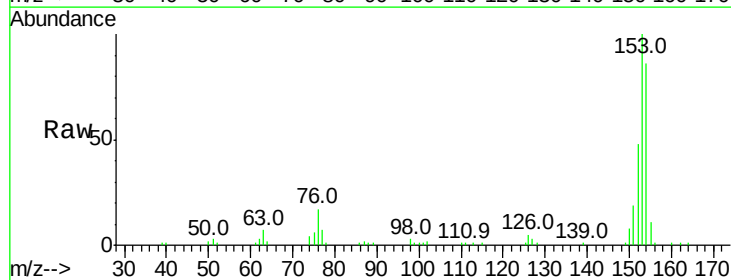
Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N29DL

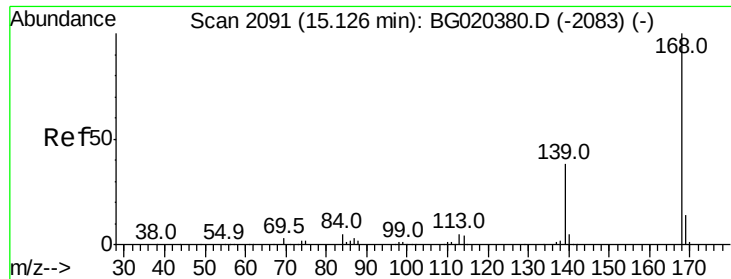
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 154   | Resp: | 8577  |
| Ion      | Ratio | Lower | Upper |
| 154      | 100   |       |       |
| 153      | 39.1  | 35.5  | 53.3  |
| 76       | 13.0  | 10.4  | 15.6  |



#50  
 Acenaphthene  
 Concen: 11.88 ng/ul  
 RT: 14.79 min Scan# 2033  
 Delta R.T. -0.00 min  
 Lab File: BG020383.D  
 Acq: 21 Dec 2015 19:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 153   | Resp: | 39717 |
| Ion      | Ratio | Lower | Upper |
| 153      | 100   |       |       |
| 152      | 47.6  | 37.6  | 56.4  |
| 154      | 86.2  | 67.9  | 101.9 |





#54

Dibenzenofuran

Concen: 6.16 ng/ul

RT: 15.12 min Scan# 2090

Delta R.T. -0.00 min

Lab File: BG020383.D

Acq: 21 Dec 2015 19:07

Instrument :

BNA\_G

ClientSampled :

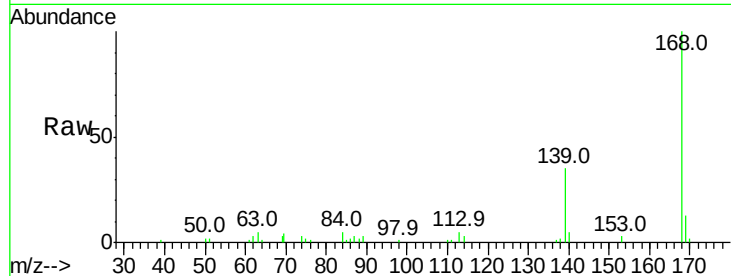
D9N29DL

Tot Ion:168 Resp: 30612

Ion Ratio Lower Upper

168 100

139 35.4 30.5 45.7



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

15.12

20000

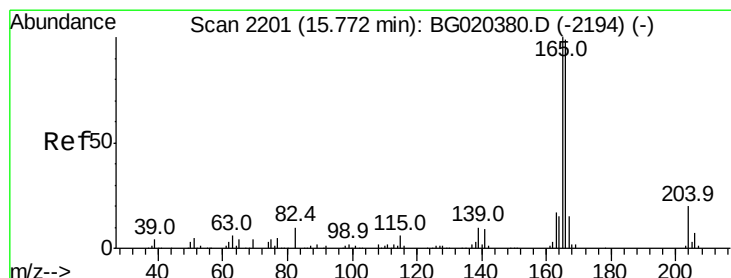
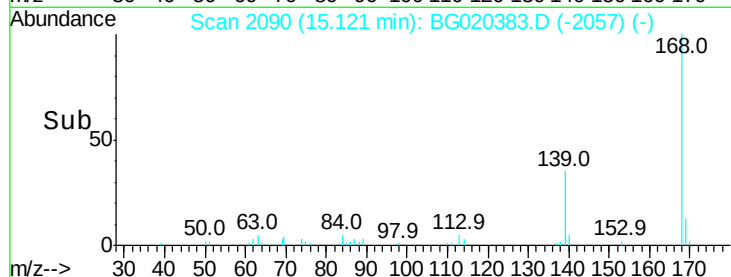
15000

10000

5000

0

Time--> 15.05 15.10 15.15



#59

Fluorene

Concen: 5.47 ng/ul

RT: 15.77 min Scan# 2200

Delta R.T. -0.00 min

Lab File: BG020383.D

Acq: 21 Dec 2015 19:07

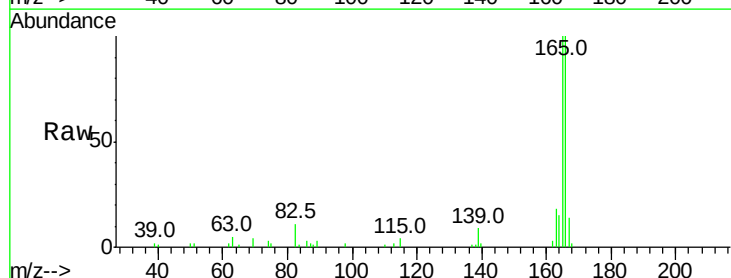
Tgt Ion:166 Resp: 21841

Ion Ratio Lower Upper

166 100

165 99.8 81.4 122.0

167 14.0 11.2 16.8



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

15.77

20000

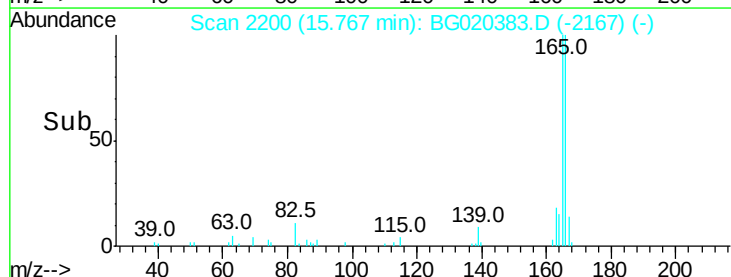
15000

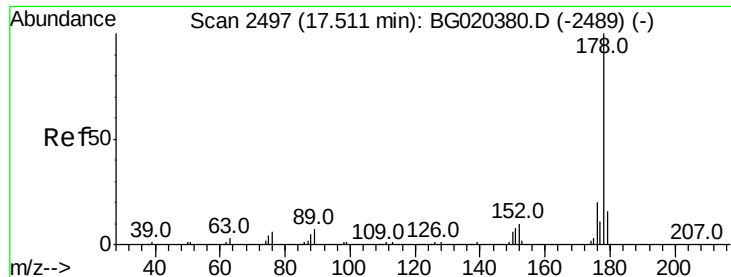
10000

5000

0

Time--> 15.70 15.75 15.80





#70

Phenanthrene

Concen: 7.04 ng/ul

RT: 17.51 min Scan# 2496

Delta R.T. -0.00 min

Lab File: BG020383.D

Acq: 21 Dec 2015 19:07

Instrument :

BNA\_G

ClientSampleId :

D9N29DL

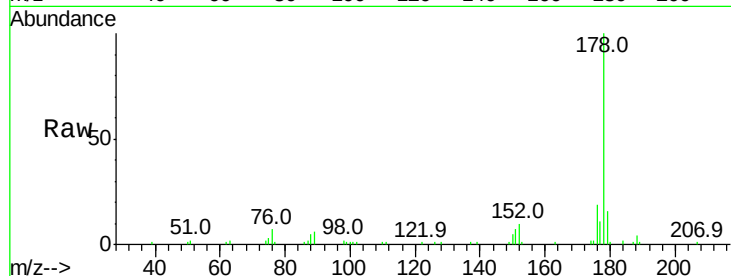
Tot Ion:178 Resp: 46133

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 16.3  | 12.9  | 19.3  |
| 176 | 18.8  | 15.3  | 22.9  |

178 100

179 16.3 12.9 19.3

176 18.8 15.3 22.9

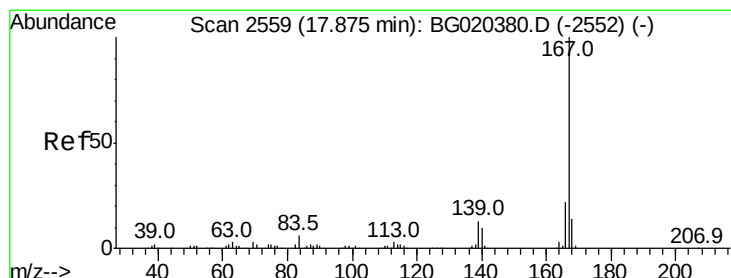
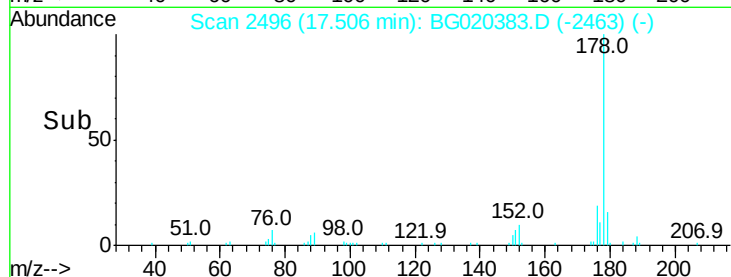
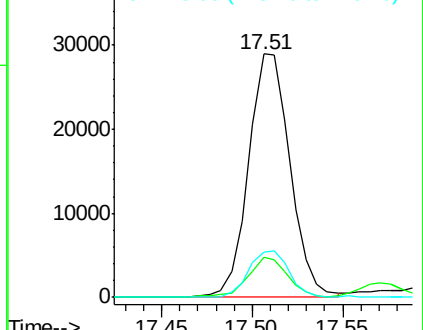


Abundance

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



#75

Carbazole

Concen: 4.45 ng/ul

RT: 17.87 min Scan# 2558

Delta R.T. -0.00 min

Lab File: BG020383.D

Acq: 21 Dec 2015 19:07

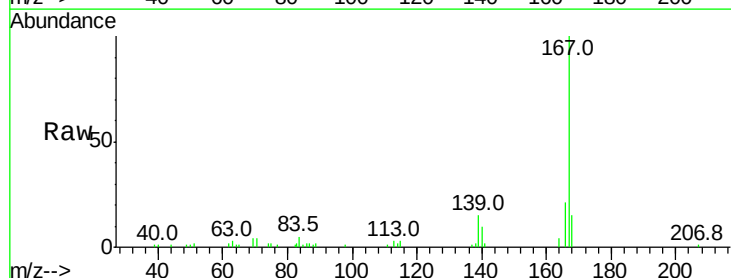
Tgt Ion:167 Resp: 24839

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 167 | 100   |       |       |
| 166 | 21.2  | 17.0  | 25.6  |
| 139 | 15.3  | 10.1  | 15.1# |

167 100

166 21.2 17.0 25.6

139 15.3 10.1 15.1#

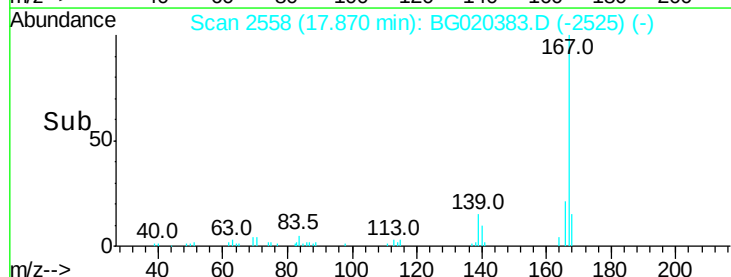
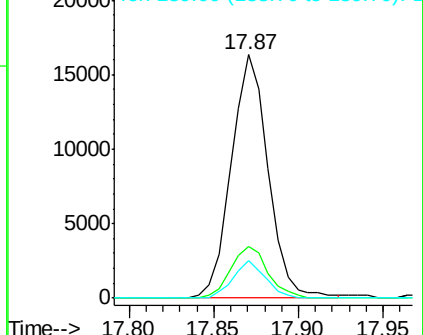


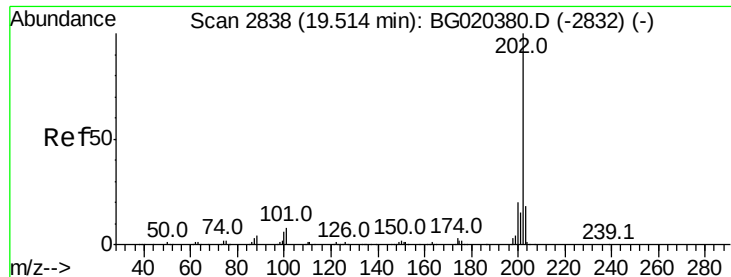
Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#77

Fluoranthene

Concen: 1.02 ng/ul

RT: 19.52 min Scan# 2838

Delta R.T. 0.00 min

Lab File: BG020383.D

Acq: 21 Dec 2015 19:07

Instrument :

BNA\_G

ClientSampleId :

D9N29DL

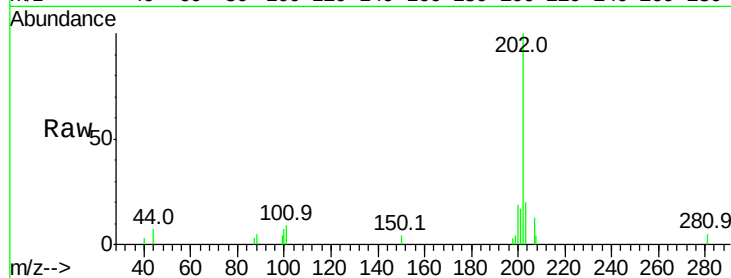
Tot Ion:202 Resp: 7778

Ion Ratio Lower Upper

202 100

101 8.7 6.2 9.4

100 7.4 5.1 7.7



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

