

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG071616\  
 Data File : BG023149.D  
 Acq On : 16 Jul 2016 16:22  
 Operator : UM/SJ  
 Sample : H4018-02  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D8-B3(0-6)C

Quant Time: Jul 18 01:20:48 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG070816.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 12 18:30:58 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.15  | 152  | 144524   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.98 | 136  | 632067   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 14.80 | 164  | 421065   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 17.55 | 188  | 902959   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 21.86 | 240  | 965423   | 20.00 | ng    | 0.01     |
| 86) Perylene-d12          | 25.22 | 264  | 962885   | 20.00 | ng    | 0.04     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.70  | 112  | 833479   | 94.32 | ng    | 0.00     |
| 7) Phenol-d6                | 7.31  | 99   | 1320496  | 95.41 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.33  | 82   | 975031   | 66.05 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.29 | 330  | 564954   | 74.65 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.41 | 172  | 1788987  | 66.92 | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.15 | 244  | 2177538  | 65.46 | ng    | 0.00     |

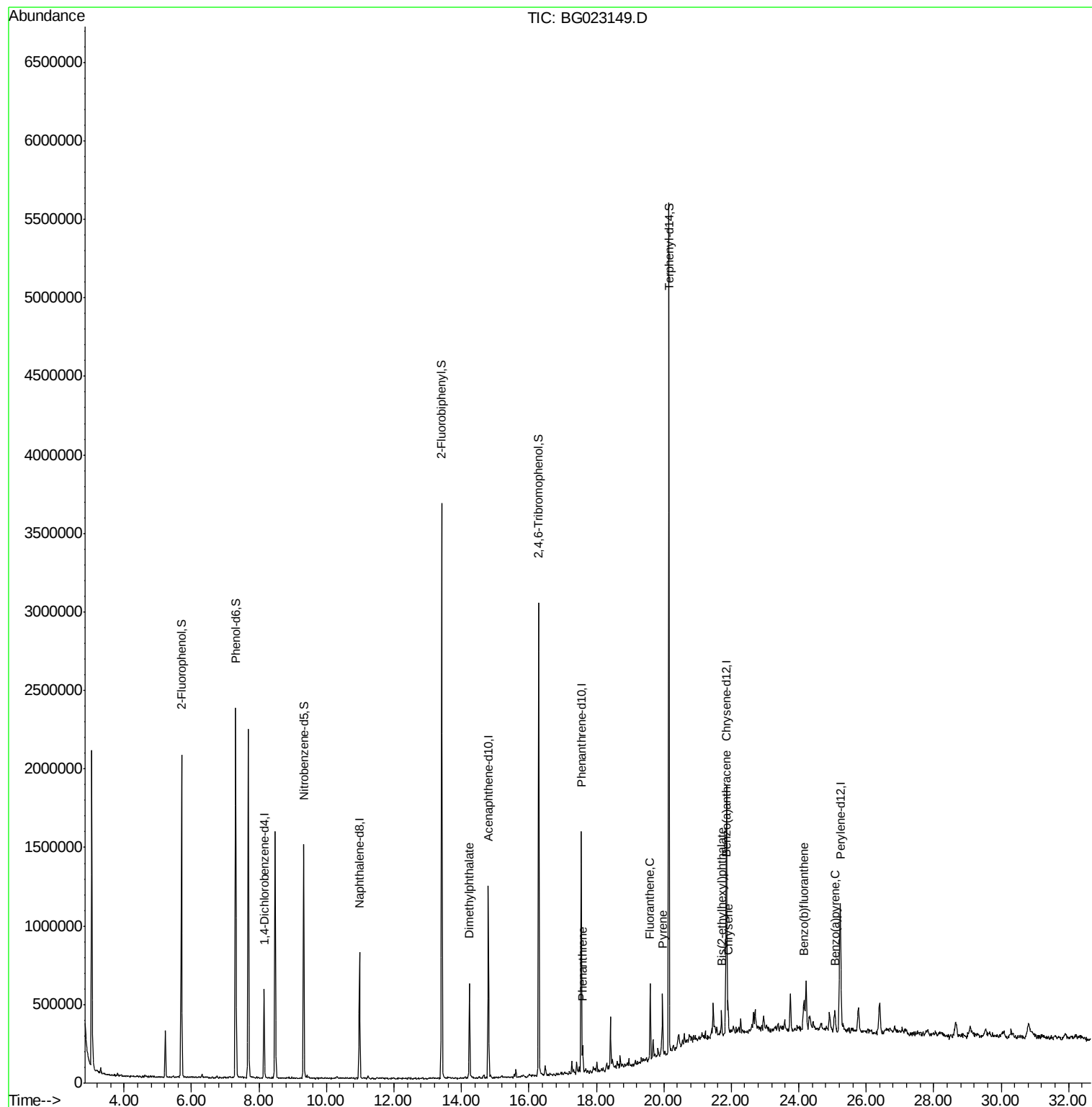
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 49) Dimethylphthalate          | 14.24 | 163  | 356718   | 10.37 | ng    | 99     |
| 70) Phenanthrene               | 17.59 | 178  | 101196   | 2.29  | ng    | # 87   |
| 74) Fluoranthene               | 19.60 | 202  | 282181   | 5.20  | ng    | 93     |
| 77) Pyrene                     | 19.96 | 202  | 252689   | 4.66  | ng    | # 91   |
| 80) Benzo(a)anthracene         | 21.83 | 228  | 140818   | 2.61  | ng    | 94     |
| 82) Chrysene                   | 21.91 | 228  | 173130   | 3.42  | ng    | 94     |
| 83) Bis(2-ethylhexyl)phthalate | 21.71 | 149  | 62546    | 2.10  | ng    | # 89   |
| 87) Benzo(b)fluoranthene       | 24.16 | 252  | 262304   | 4.72  | ng    | # 99   |
| 89) Benzo(a)pyrene             | 25.07 | 252  | 162310   | 3.05  | ng    | # 97   |

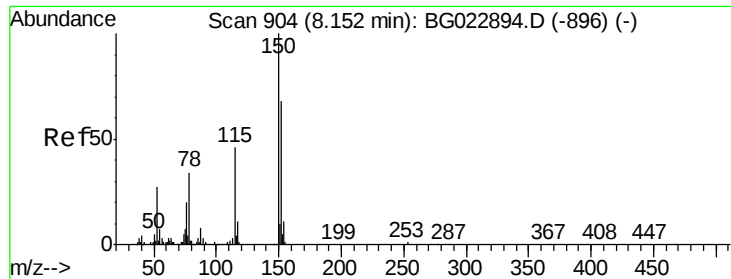
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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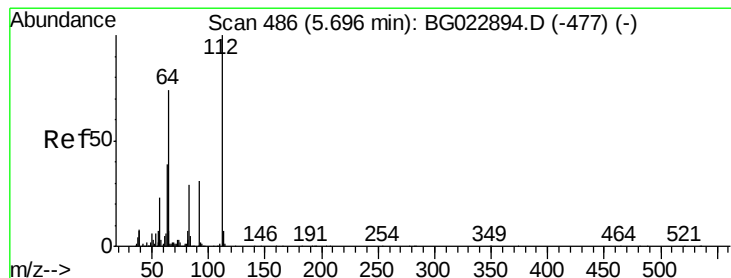
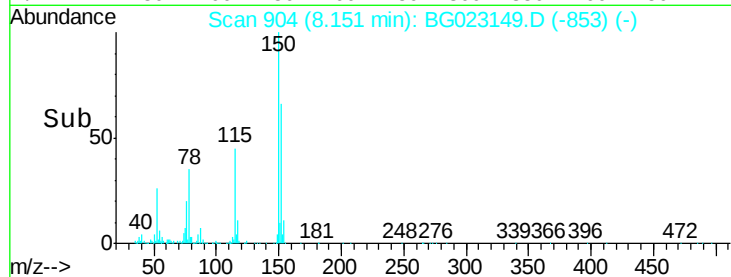
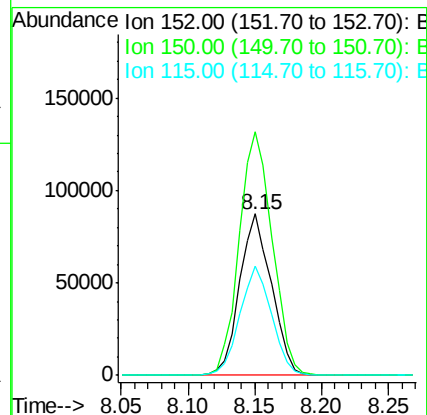
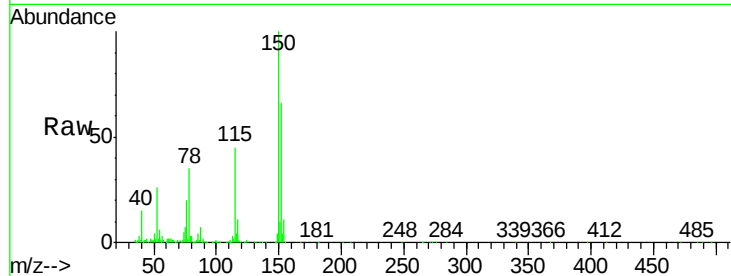


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.15 min Scan# 904  
Delta R.T. -0.00 min  
Lab File: BG023149.D  
Acq: 16 Jul 2016 16:22

Instrument :  
BNA\_G  
ClientSampleId :  
D8-B3(0-6)C

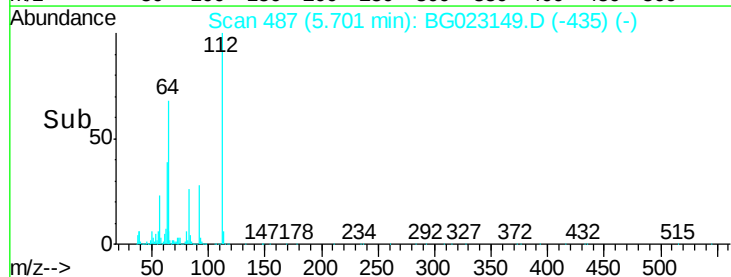
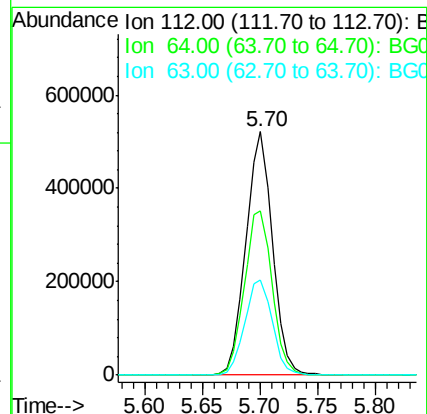
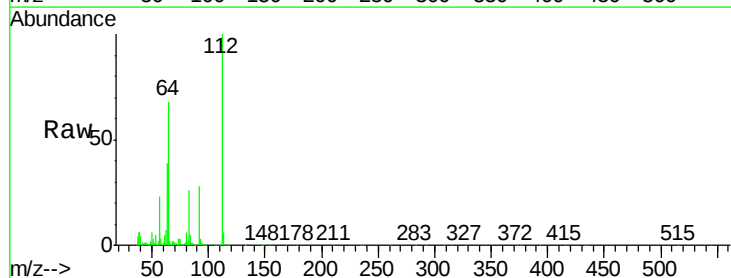
Tgt Ion:152 Resp: 144524  
Ion Ratio Lower Upper  
152 100  
150 150.8 144.7 217.1  
115 67.6 64.0 96.0

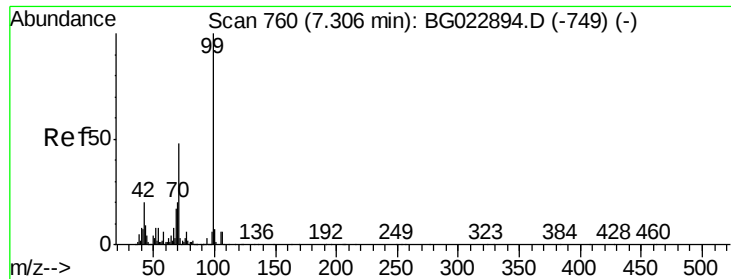


#5

2-Fluorophenol  
Concen: 94.32 ng  
RT: 5.70 min Scan# 487  
Delta R.T. 0.01 min  
Lab File: BG023149.D  
Acq: 16 Jul 2016 16:22

Tgt Ion:112 Resp: 833479  
Ion Ratio Lower Upper  
112 100  
64 67.7 59.0 88.4  
63 39.0 37.8 56.8





#7

Phenol-d6

Concen: 95.41 ng

RT: 7.31 min Scan# 761

Delta R.T. 0.00 min

Lab File: BG023149.D

Acq: 16 Jul 2016 16:22

Instrument :

BNA\_G

ClientSampleId :

D8-B3(0-6)C

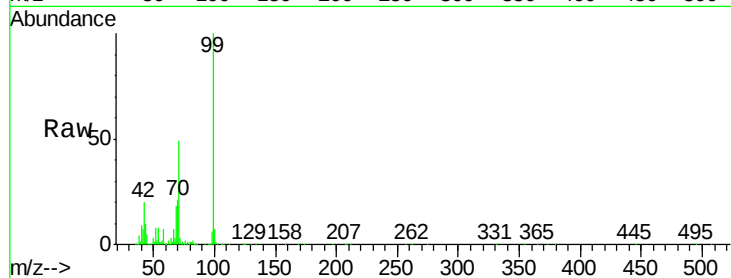
Tgt Ion: 99 Resp: 1320496

Ion Ratio Lower Upper

99 100

42 20.1 17.8 26.6

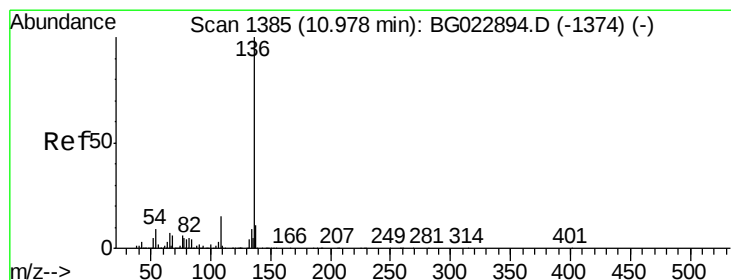
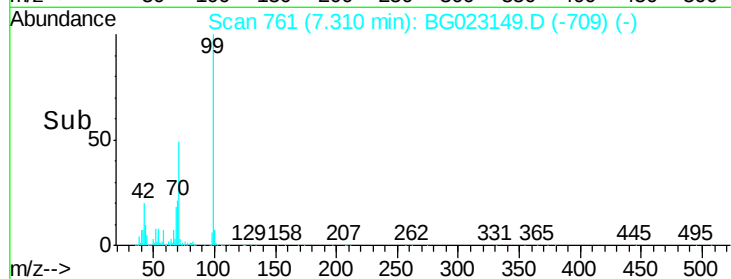
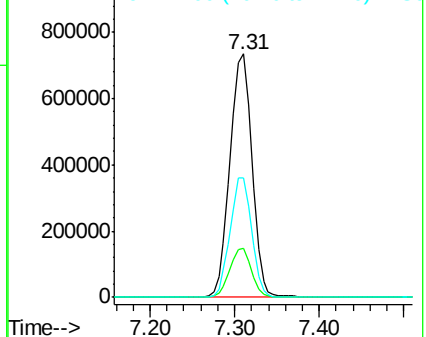
71 49.2 41.5 62.3



Abundance Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.98 min Scan# 1385

Delta R.T. -0.00 min

Lab File: BG023149.D

Acq: 16 Jul 2016 16:22

Tgt Ion: 136 Resp: 632067

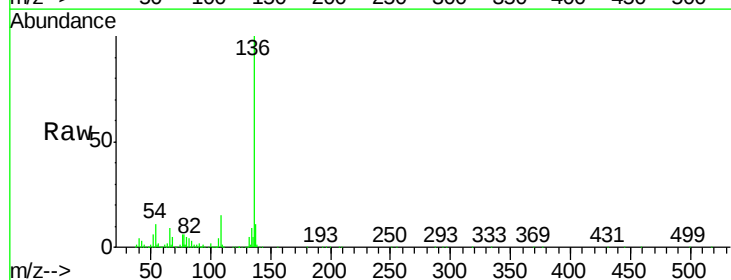
Ion Ratio Lower Upper

136 100

137 11.2 9.6 14.4

54 10.9 7.3 10.9

68 5.5 5.3 7.9

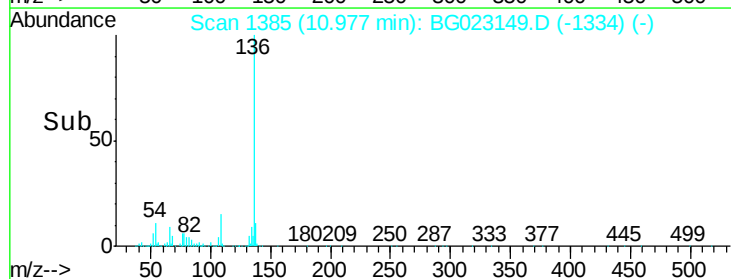
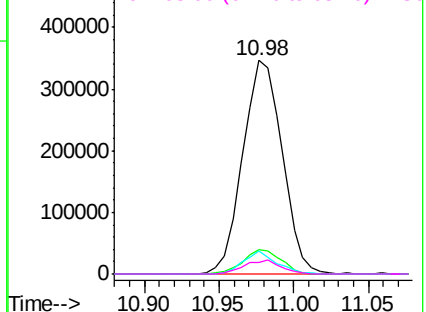


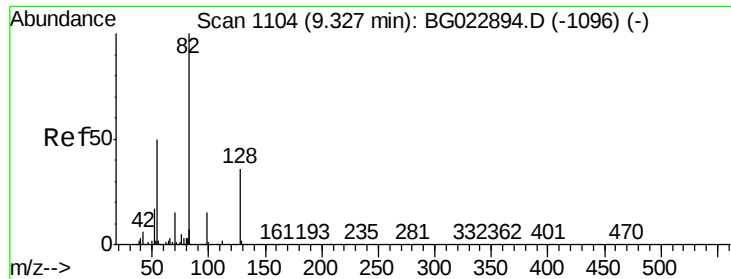
Abundance Ion 136.00 (135.70 to 136.70): BGC

Ion 137.00 (136.70 to 137.70): BGC

Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC





#23

Nitrobenzene-d5

Concen: 66.05 ng

RT: 9.33 min Scan# 1104

Delta R.T. -0.00 min

Lab File: BG023149.D

Acq: 16 Jul 2016 16:22

Instrument :

BNA\_G

ClientSampleId :

D8-B3(0-6)C

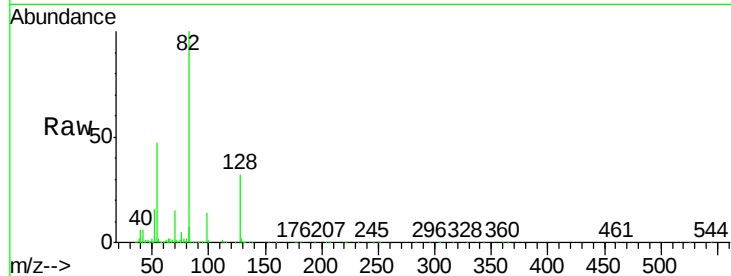
Tgt Ion: 82 Resp: 975031

Ion Ratio Lower Upper

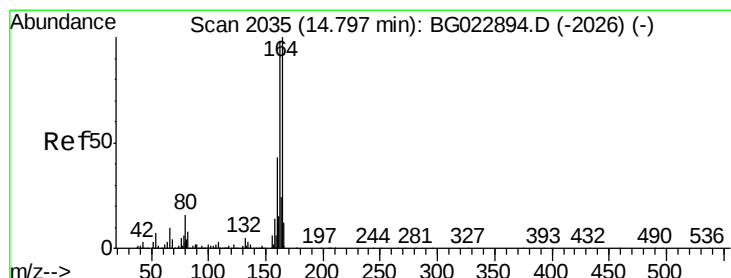
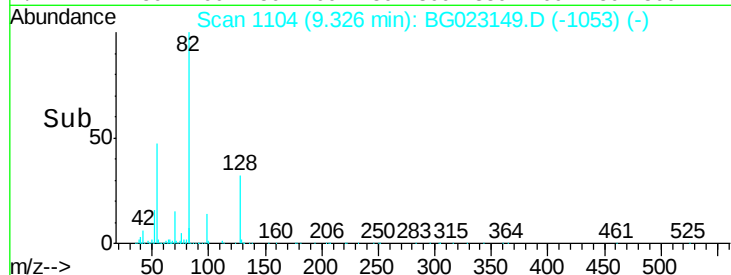
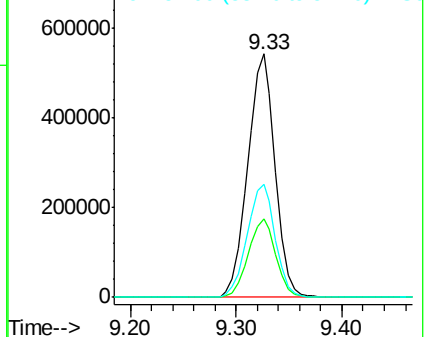
82 100

128 32.5 24.4 36.6

54 46.7 41.4 62.0



Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.80 min Scan# 2035

Delta R.T. -0.00 min

Lab File: BG023149.D

Acq: 16 Jul 2016 16:22

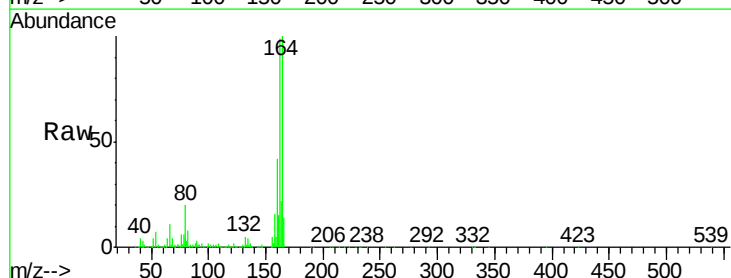
Tgt Ion: 164 Resp: 421065

Ion Ratio Lower Upper

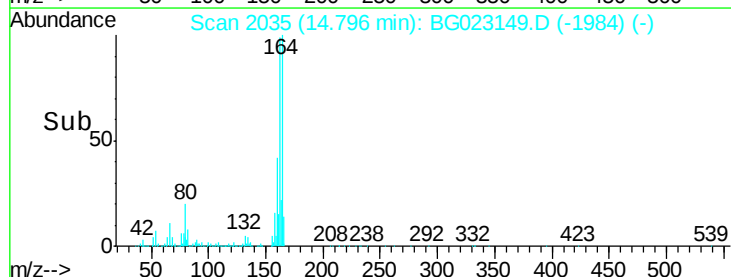
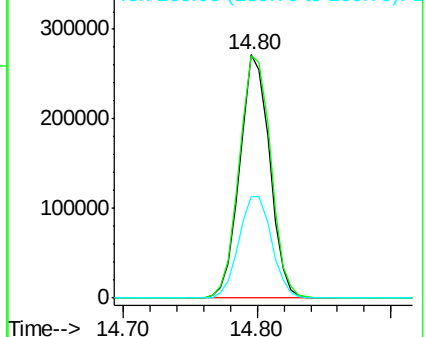
164 100

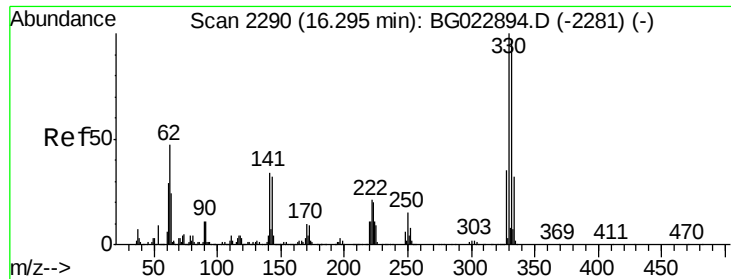
162 99.3 87.7 131.5

160 41.8 37.2 55.8



Abundance Ion 164.00 (163.70 to 164.70): BGC  
Ion 162.00 (161.70 to 162.70): BGC  
Ion 160.00 (159.70 to 160.70): BGC

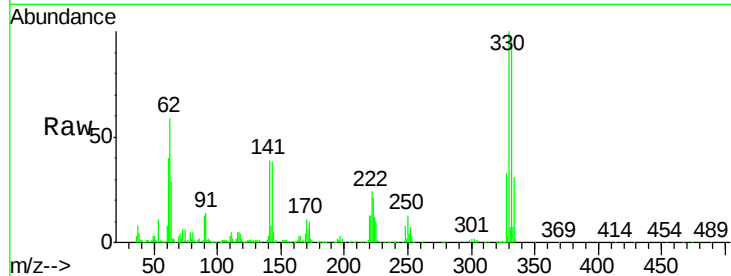




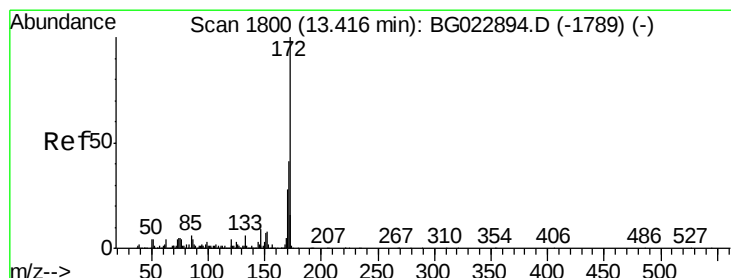
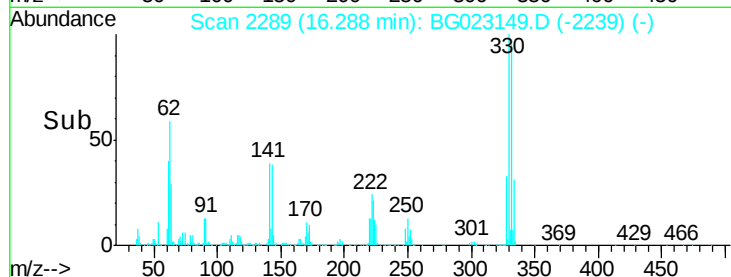
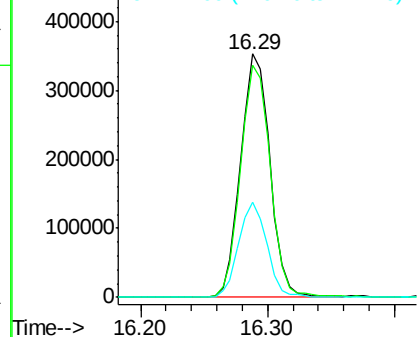
#41  
 2,4,6-Tribromophenol  
 Concen: 74.65 ng  
 RT: 16.29 min Scan# 2289  
 Delta R.T. -0.01 min  
 Lab File: BG023149.D  
 Acq: 16 Jul 2016 16:22

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D8-B3(0-6)C

Tgt Ion:330 Resp: 564954  
 Ion Ratio Lower Upper  
 330 100  
 332 96.9 77.4 116.2  
 141 37.7 31.7 47.5

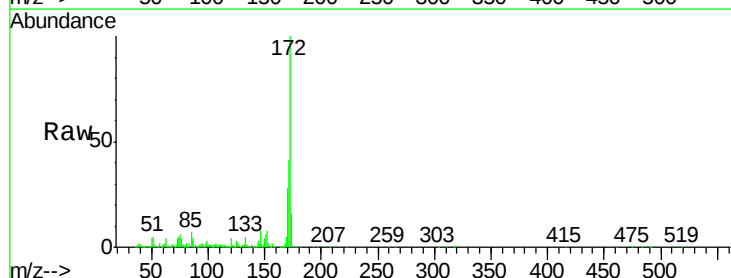


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

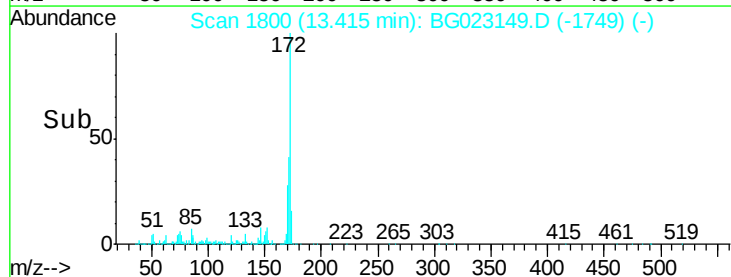
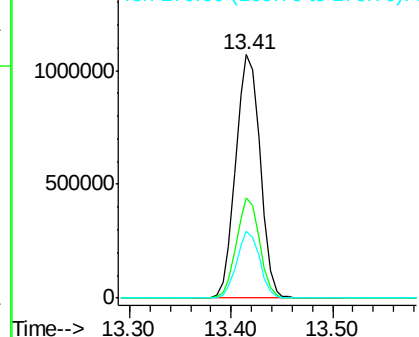


#44  
 2-Fluorobiphenyl  
 Concen: 66.92 ng  
 RT: 13.41 min Scan# 1800  
 Delta R.T. -0.00 min  
 Lab File: BG023149.D  
 Acq: 16 Jul 2016 16:22

Tgt Ion:172 Resp: 1788987  
 Ion Ratio Lower Upper  
 172 100  
 171 41.3 31.6 47.4  
 170 27.5 21.3 31.9



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





#49

Dimethylphthalate

Concen: 10.37 ng

RT: 14.24 min Scan# 1940

Delta R.T. -0.01 min

Lab File: BG023149.D

Acq: 16 Jul 2016 16:22

Instrument :

BNA\_G

ClientSampleId :

D8-B3(0-6)C

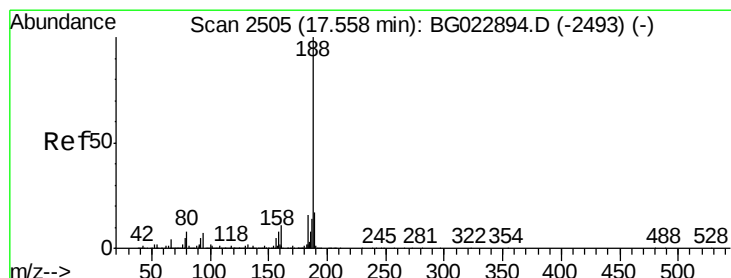
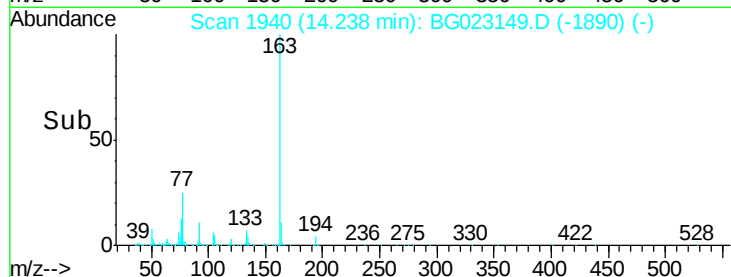
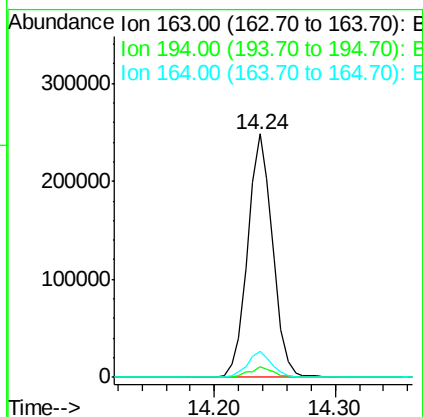
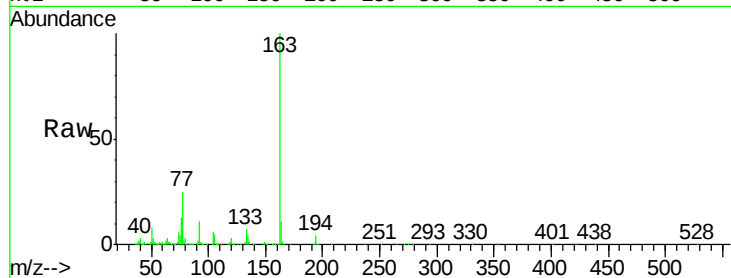
Tgt Ion:163 Resp: 356718

Ion Ratio Lower Upper

163 100

194 4.4 3.6 5.4

164 10.5 8.1 12.1



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.55 min Scan# 2504

Delta R.T. -0.01 min

Lab File: BG023149.D

Acq: 16 Jul 2016 16:22

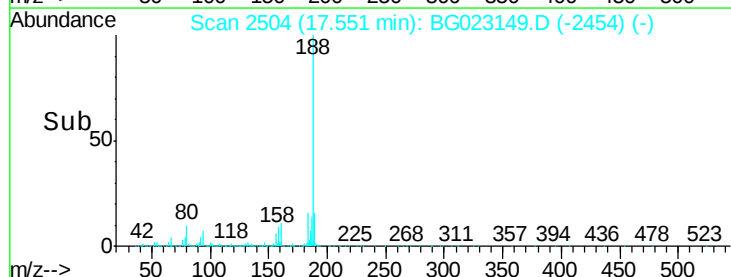
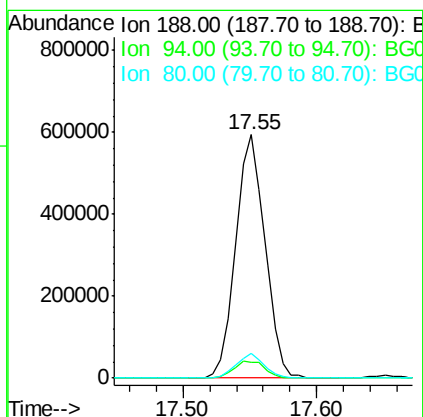
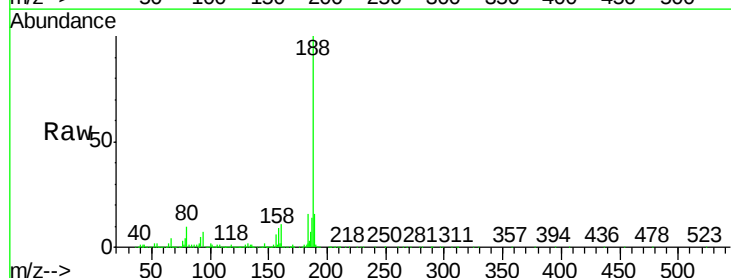
Tgt Ion:188 Resp: 902959

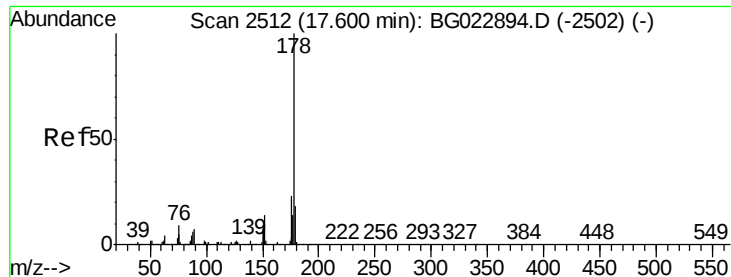
Ion Ratio Lower Upper

188 100

94 6.6 5.2 7.8

80 10.0 7.2 10.8





#70

Phenanthrene

Concen: 2.29 ng

RT: 17.59 min Scan# 2511

Delta R.T. -0.01 min

Lab File: BG023149.D

Acq: 16 Jul 2016 16:22

Instrument :

BNA\_G

ClientSampleId :

D8-B3(0-6)C

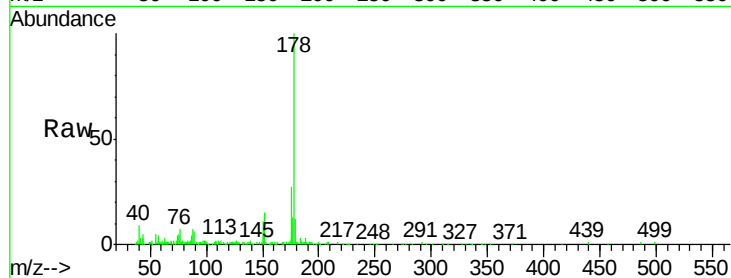
Tgt Ion:178 Resp: 101196

Ion Ratio Lower Upper

178 100

176 27.2 16.8 25.2#

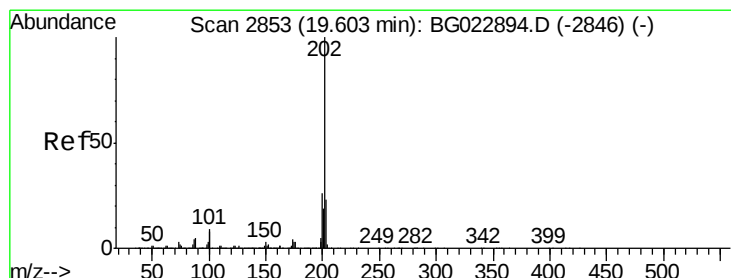
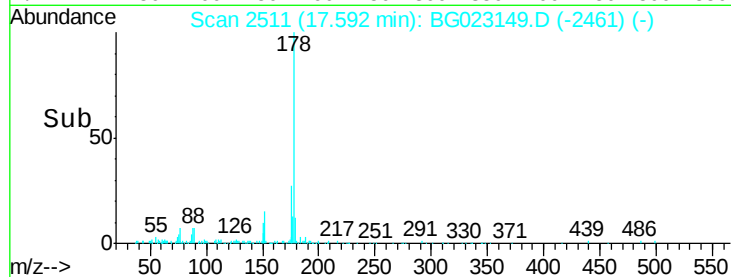
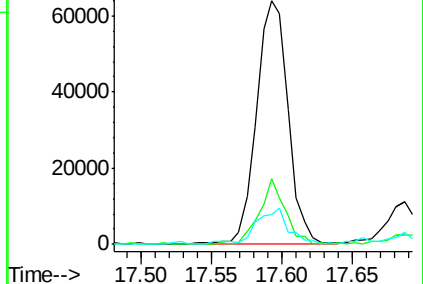
179 12.2 14.3 21.5#



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



#74

Fluoranthene

Concen: 5.20 ng

RT: 19.60 min Scan# 2852

Delta R.T. -0.01 min

Lab File: BG023149.D

Acq: 16 Jul 2016 16:22

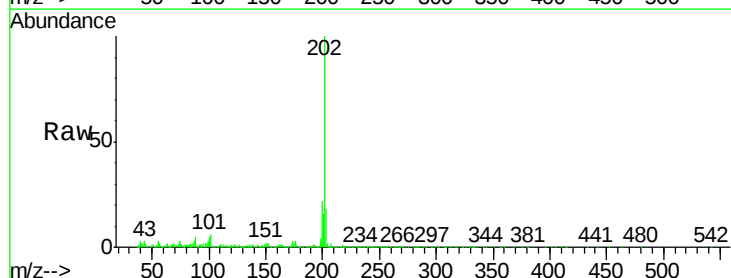
Tgt Ion:202 Resp: 282181

Ion Ratio Lower Upper

202 100

101 5.9 0.0 27.4

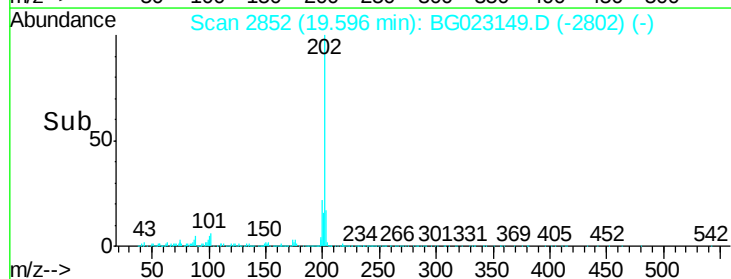
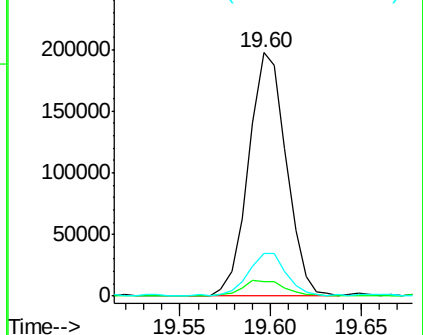
203 17.7 1.7 41.7

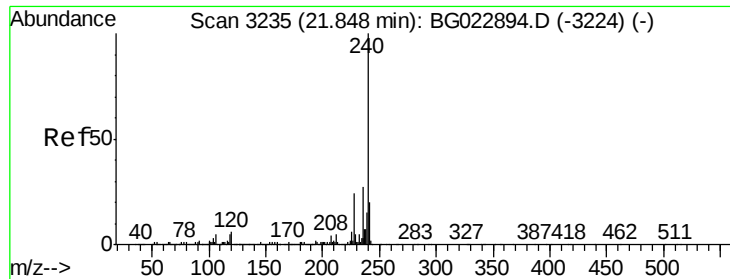


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.86 min Scan# 3237

Delta R.T. 0.01 min

Lab File: BG023149.D

Acq: 16 Jul 2016 16:22

Instrument :

BNA\_G

ClientSampleId :

D8-B3(0-6)C

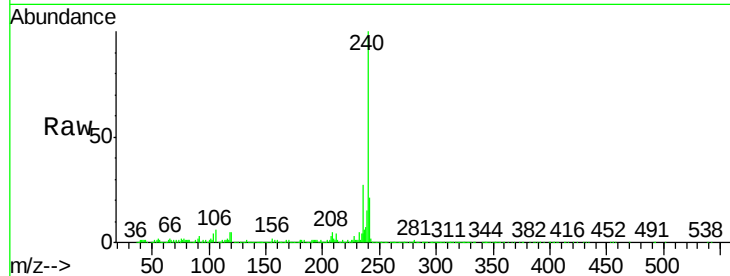
Tgt Ion:240 Resp: 965423

Ion Ratio Lower Upper

240 100

120 5.5 4.1 6.1

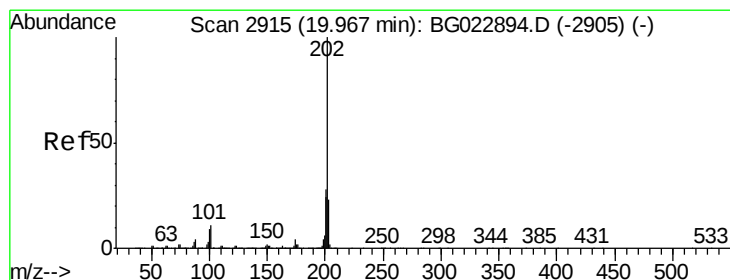
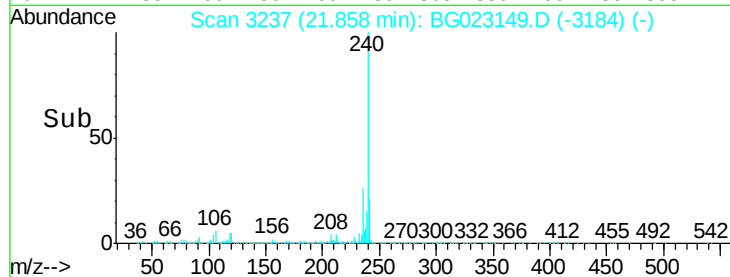
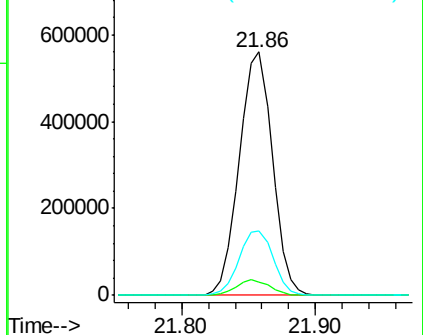
236 26.6 21.1 31.7



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 4.66 ng

RT: 19.96 min Scan# 2914

Delta R.T. -0.01 min

Lab File: BG023149.D

Acq: 16 Jul 2016 16:22

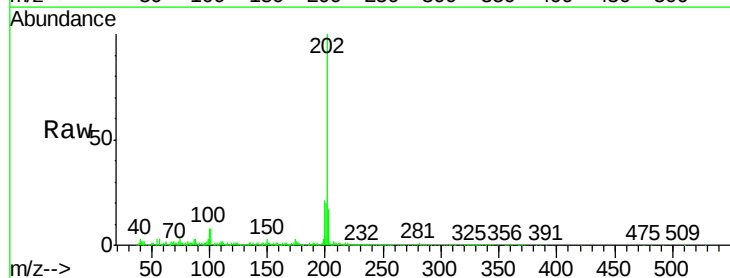
Tgt Ion:202 Resp: 252689

Ion Ratio Lower Upper

202 100

200 20.9 21.2 31.8#

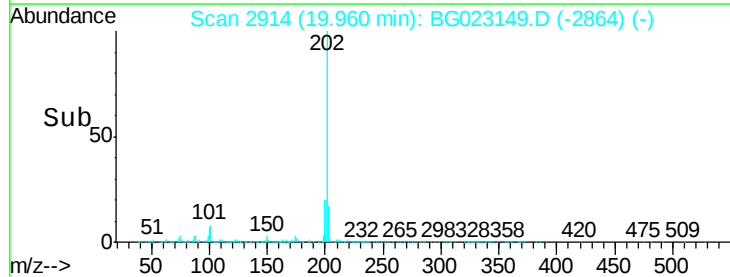
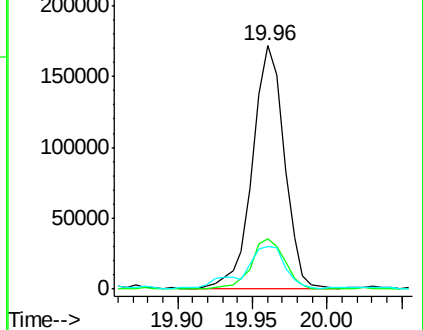
203 17.5 16.8 25.2

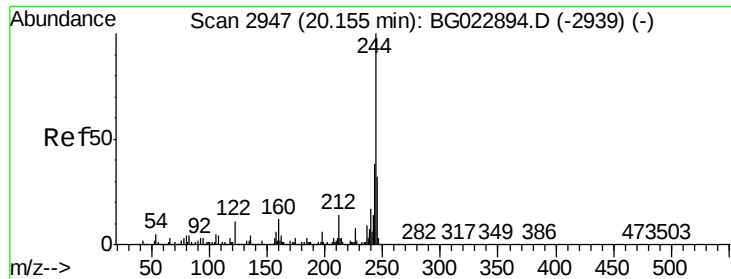


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 65.46 ng

RT: 20.15 min Scan# 2946

Delta R.T. -0.01 min

Lab File: BG023149.D

Acq: 16 Jul 2016 16:22

Instrument :

BNA\_G

ClientSampleId :

D8-B3(0-6)C

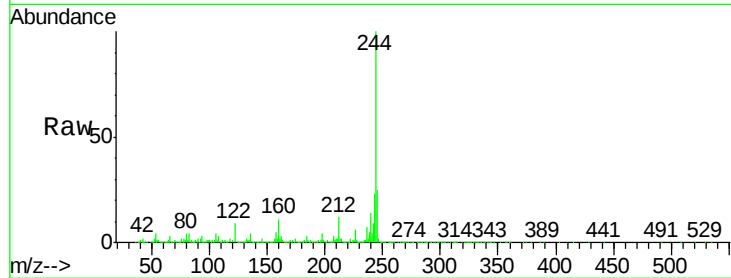
Tgt Ion:244 Resp: 2177538

Ion Ratio Lower Upper

244 100

212 12.0 10.8 16.2

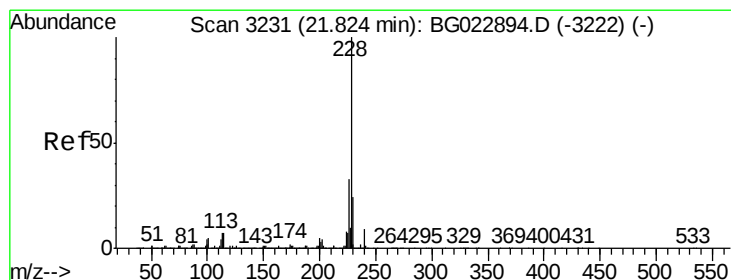
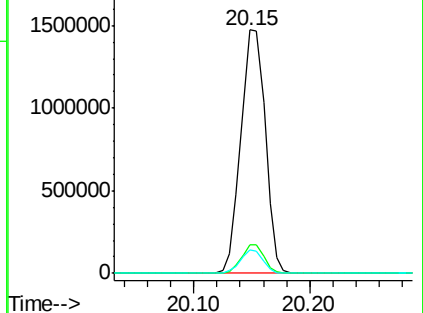
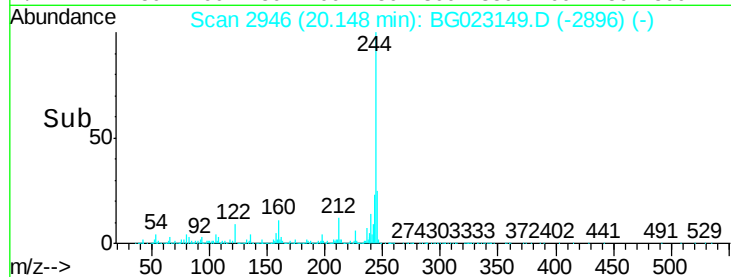
122 9.4 8.0 12.0



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 2.61 ng

RT: 21.83 min Scan# 3233

Delta R.T. 0.01 min

Lab File: BG023149.D

Acq: 16 Jul 2016 16:22

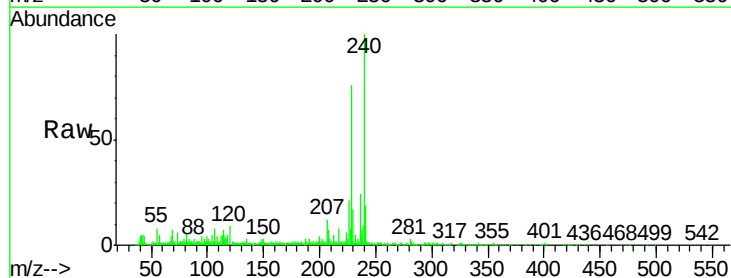
Tgt Ion:228 Resp: 140818

Ion Ratio Lower Upper

228 100

226 27.3 25.3 37.9

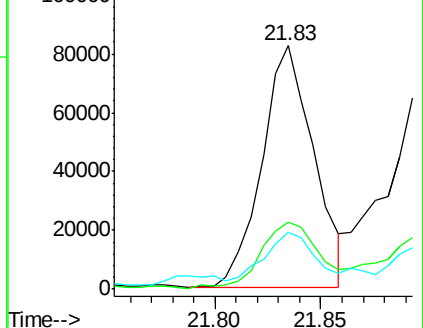
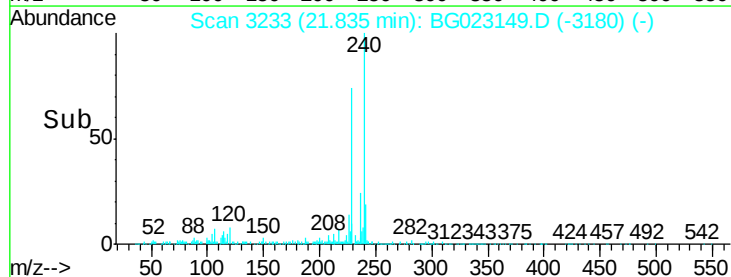
229 23.1 19.9 29.9

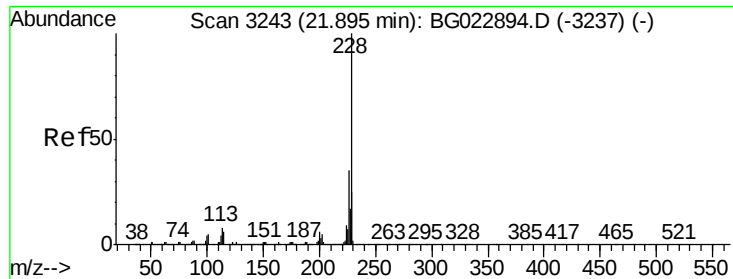


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 3.42 ng

RT: 21.91 min Scan# 3245

Delta R.T. 0.01 min

Lab File: BG023149.D

Acq: 16 Jul 2016 16:22

Instrument :

BNA\_G

ClientSampleId :

D8-B3(0-6)C

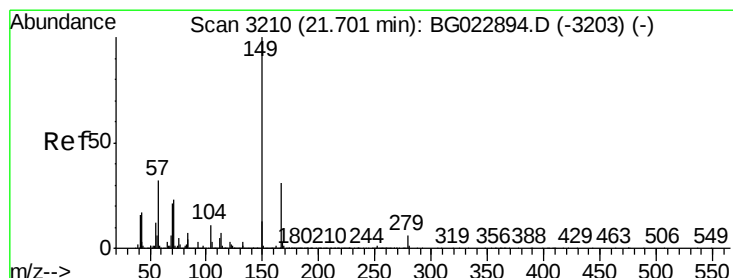
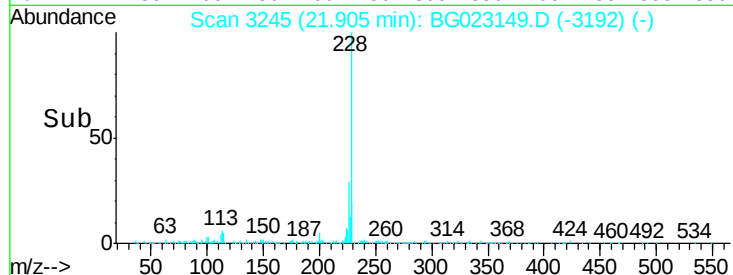
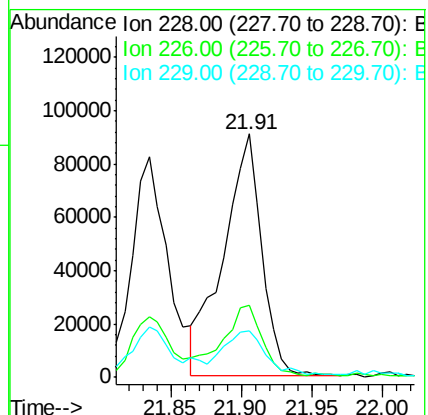
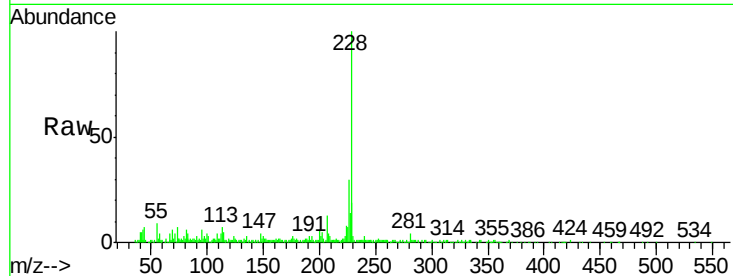
Tgt Ion:228 Resp: 173130

Ion Ratio Lower Upper

228 100

226 29.5 26.7 40.1

229 19.1 17.4 26.2



#83

Bis(2-ethylhexyl)phthalate

Concen: 2.10 ng

RT: 21.71 min Scan# 3212

Delta R.T. 0.01 min

Lab File: BG023149.D

Acq: 16 Jul 2016 16:22

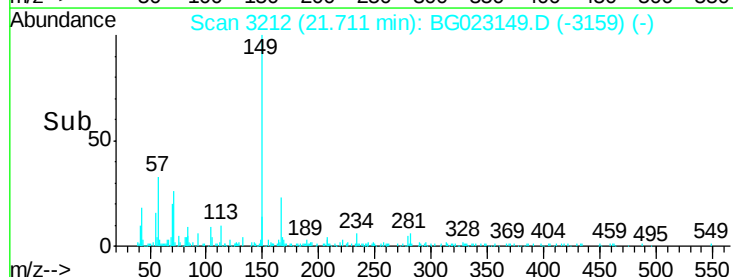
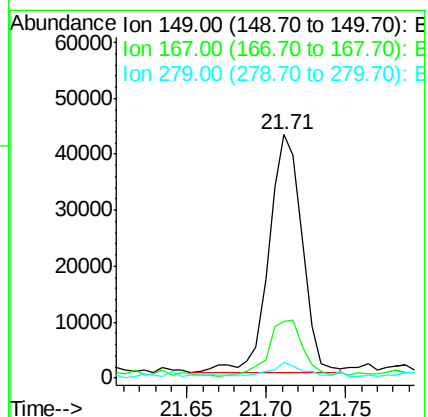
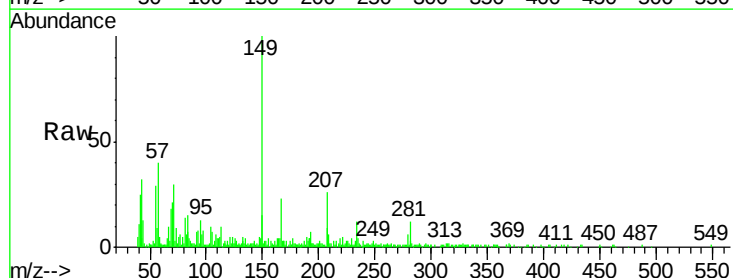
Tgt Ion:149 Resp: 62546

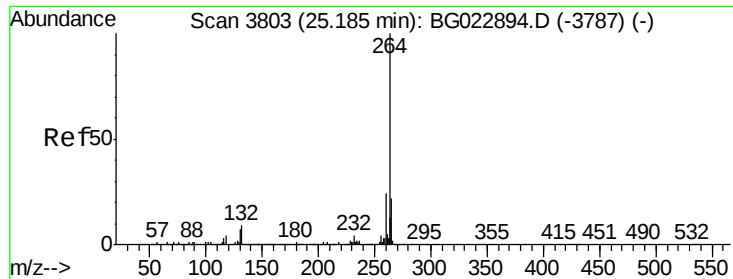
Ion Ratio Lower Upper

149 100

167 23.2 24.0 36.0#

279 6.3 4.8 7.2

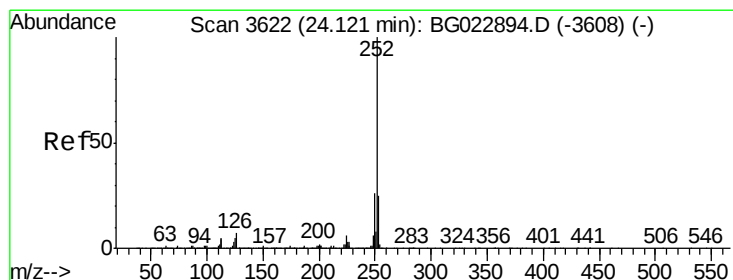
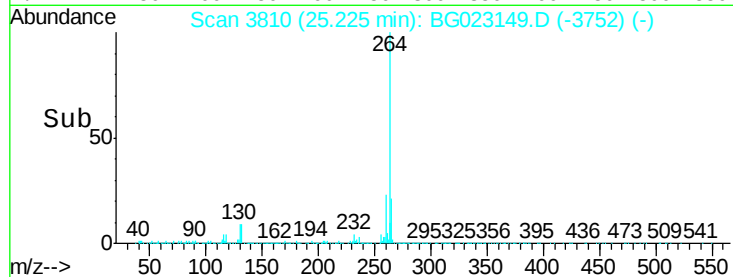
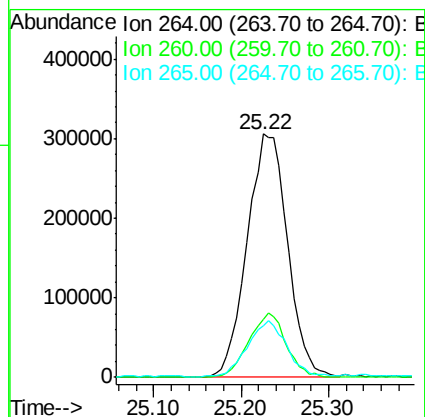
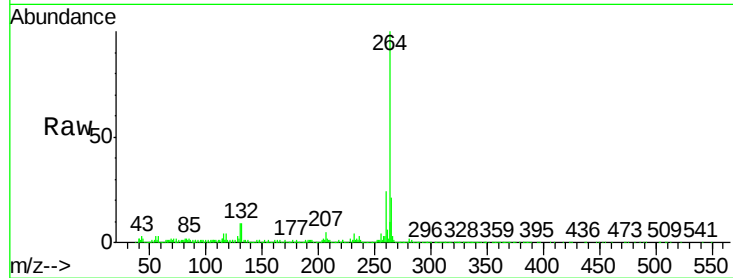




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 25.22 min Scan# 3810  
Delta R.T. 0.04 min  
Lab File: BG023149.D  
Acq: 16 Jul 2016 16:22

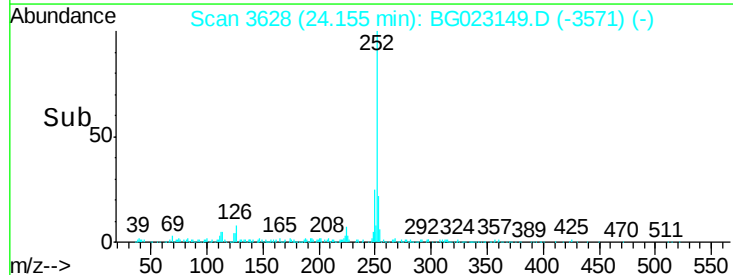
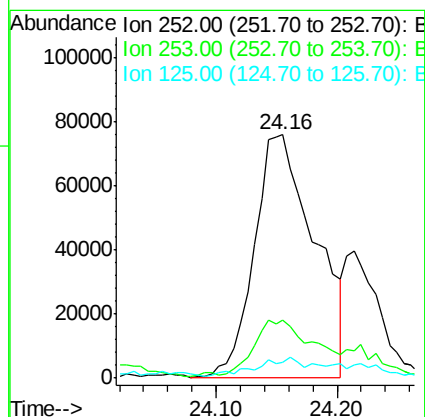
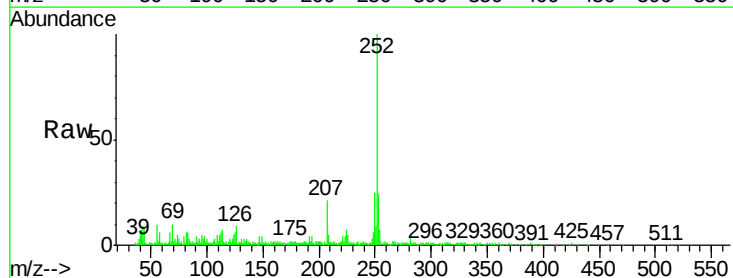
Instrument :  
BNA\_G  
ClientSampleId :  
D8-B3(0-6)C

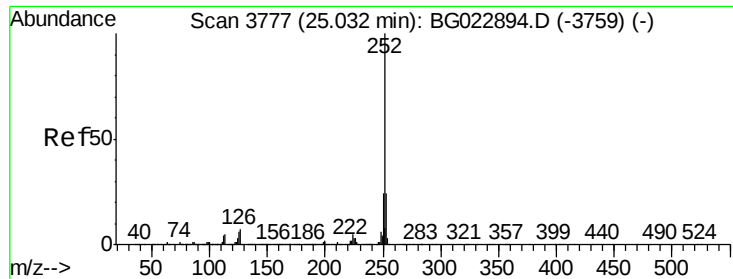
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 264   | Resp: | 962885 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 23.7  | 18.4  | 27.6   |
| 265      | 21.2  | 18.9  | 28.3   |



#87  
Benzo(b)fluoranthene  
Concen: 4.72 ng  
RT: 24.16 min Scan# 3628  
Delta R.T. 0.03 min  
Lab File: BG023149.D  
Acq: 16 Jul 2016 16:22

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 252   | Resp: | 262304 |
| Ion      | Ratio | Lower | Upper  |
| 252      | 100   |       |        |
| 253      | 23.9  | 18.9  | 28.3   |
| 125      | 6.3   | 3.9   | 5.9    |





#89

Benzo(a)pyrene

Concen: 3.05 ng

RT: 25.07 min Scan# 3783

Delta R.T. 0.03 min

Lab File: BG023149.D

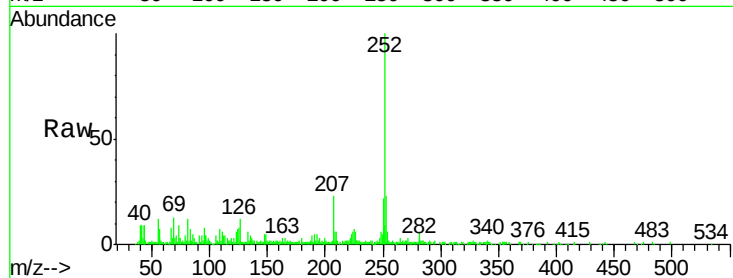
Acq: 16 Jul 2016 16:22

Instrument :

BNA\_G

ClientSampleId :

D8-B3(0-6)C



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 252   | Resp: | 162310 |
| Ion      | Ratio | Lower | Upper  |
| 252      | 100   |       |        |
| 253      | 22.5  | 18.7  | 28.1   |
| 125      | 7.5   | 3.9   | 5.9#   |

