

Data Path : Z:\HPCHEM1\BNA G\DATA\BG031418\  
 Data File : BG033144.D  
 Acq On : 14 Mar 2018 12:39  
 Operator : SJ/JU  
 Sample : J1867-01  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Mar 14 14:00:09 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 14 13:59:34 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.90  | 152  | 47433    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 11.79 | 136  | 206881   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 15.52 | 164  | 120949   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 18.25 | 188  | 294003   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 22.60 | 240  | 278736   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 26.41 | 264  | 288249   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 6.33  | 112  | 186553   | 62.92  | ng    | 0.01     |
| 7) Phenol-d6                | 8.01  | 99   | 147622   | 35.72  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 10.11 | 82   | 381109   | 122.84 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.99 | 330  | 281748   | 221.55 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 14.15 | 172  | 843860   | 100.63 | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.77 | 244  | 1324298  | 106.74 | ng    | 0.00     |

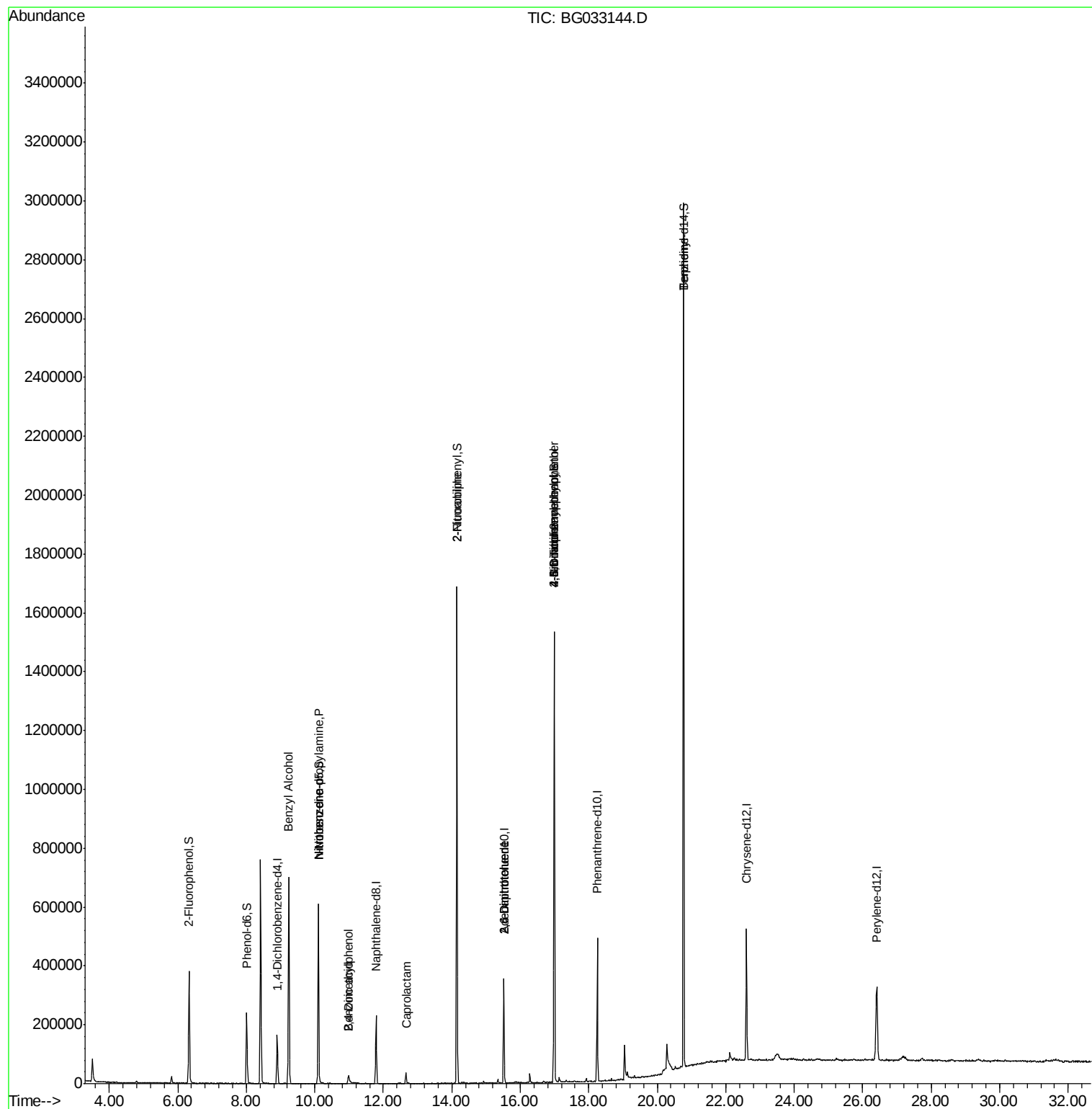
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 15) Benzyl Alcohol             | 9.24  | 79   | 6292     | 2.071  | ng    | # 40   |
| 19) n-Nitroso-di-n-propylamine | 10.10 | 70   | 50950    | 17.464 | ng    | # 84   |
| 24) Nitrobenzene               | 10.11 | 77   | 1220     | 6.701  | ng    | # 32   |
| 27) 2,4-Dimethylphenol         | 10.98 | 122  | 17247    | 5.468  | ng    | # 1    |
| 32) Benzoic acid               | 10.98 | 122  | 17247    | 15.669 | ng    | # 72   |
| 35) Caprolactam                | 12.66 | 113  | 6562     | 5.724  | ng    | # 94   |
| 47) 2-Nitroaniline             | 14.15 | 65   | 1467     | 10.422 | ng    | # 1    |
| 50) 2,6-Dinitrotoluene         | 15.52 | 165  | 16114    | 16.621 | ng    | # 20   |
| 56) 2,4-Dinitrotoluene         | 15.52 | 165  | 16114    | 14.820 | ng    | # 18   |
| 61) 4-Nitroaniline             | 17.00 | 138  | 54       | 5.321  | ng    | # 1    |
| 64) 4,6-Dinitro-2-methylphenol | 16.99 | 198  | 803      | 6.106  | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 16.99 | 248  | 19772    | 6.360  | ng    | # 1    |
| 76) Benzidine                  | 20.76 | 184  | 23378    | 2.461  | ng    | # 93   |

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

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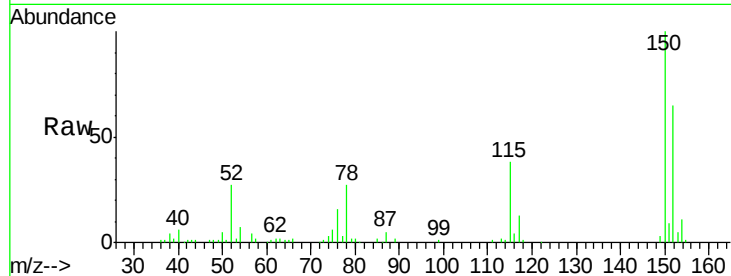


#1

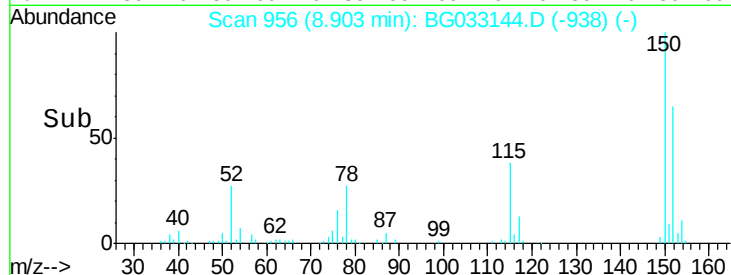
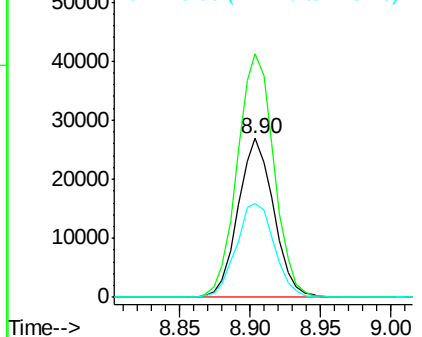
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.90 min Scan# 956  
Delta R.T. 0.01 min  
Lab File: BG033144.D  
Acq: 14 Mar 2018 12:39

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:152 Resp: 47433  
Ion Ratio Lower Upper  
152 100  
150 153.3 126.6 189.8  
115 59.0 53.0 79.4



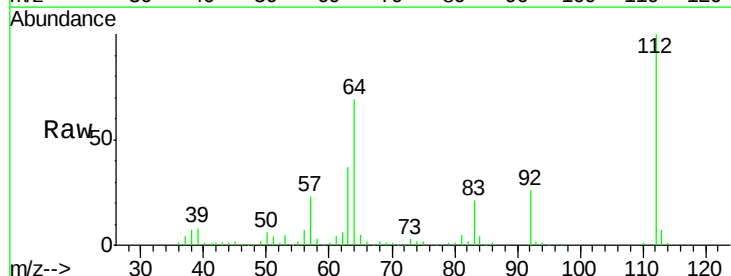
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



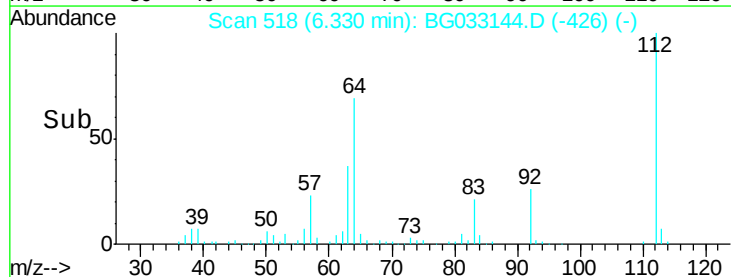
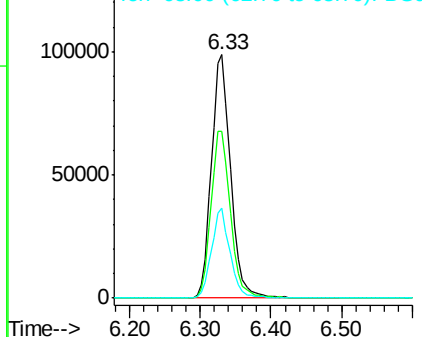
#5

2-Fluorophenol  
Concen: 62.922 ng  
RT: 6.33 min Scan# 518  
Delta R.T. 0.01 min  
Lab File: BG033144.D  
Acq: 14 Mar 2018 12:39

Tgt Ion:112 Resp: 186553  
Ion Ratio Lower Upper  
112 100  
64 68.7 56.3 84.5  
63 37.1 30.1 45.1



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BGC  
Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 35.722 ng

RT: 8.01 min Scan# 804

Delta R.T. 0.00 min

Lab File: BG033144.D

Acq: 14 Mar 2018 12:39

Instrument :

BNA\_G

ClientSampled :

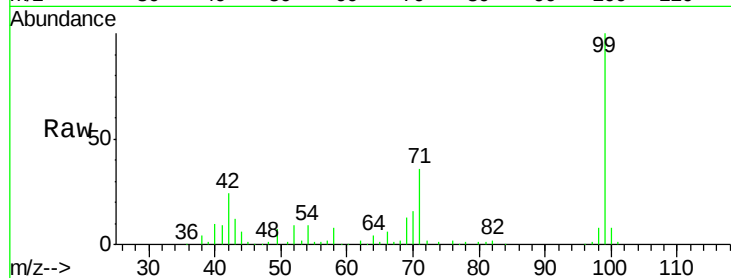
Tot Ion: 99 Resp: 147622

Ion Ratio Lower Upper

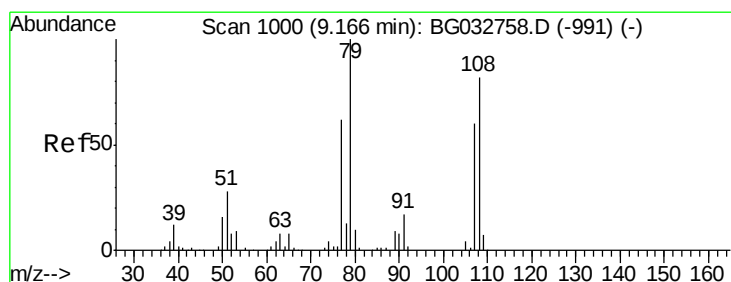
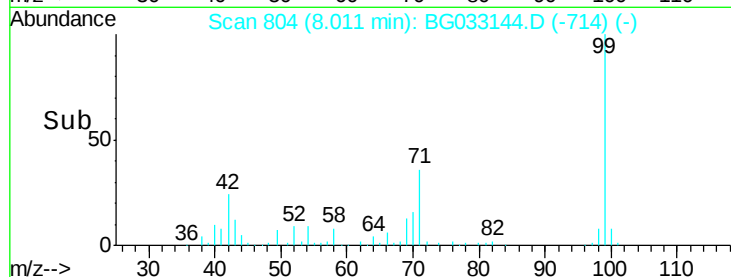
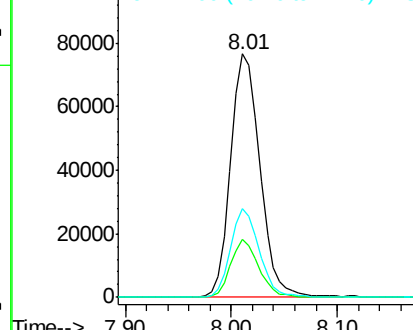
99 100

42 23.6 14.1 21.1#

71 36.5 26.1 39.1



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



#15

Benzyl Alcohol

Concen: 2.071 ng

RT: 9.24 min Scan# 1013

Delta R.T. 0.11 min

Lab File: BG033144.D

Acq: 14 Mar 2018 12:39

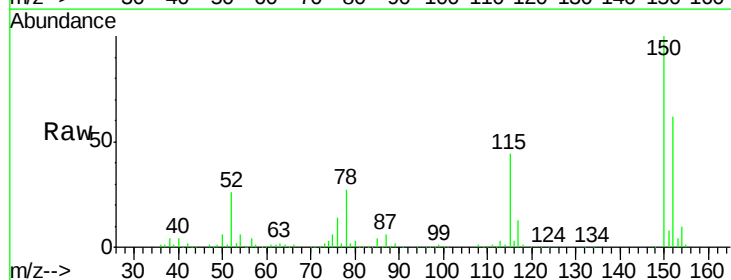
Tgt Ion: 79 Resp: 6292

Ion Ratio Lower Upper

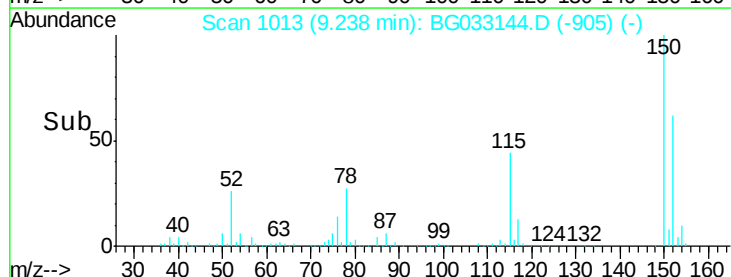
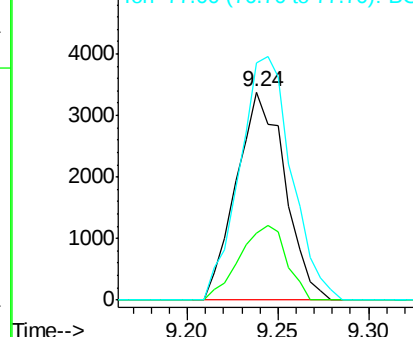
79 100

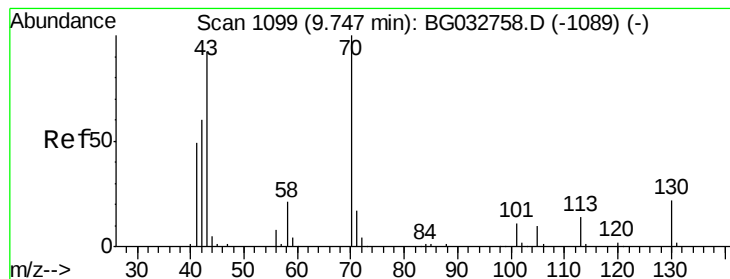
108 32.1 57.2 85.8#

77 113.9 46.1 69.1#



Abundance Ion 79.00 (78.70 to 79.70): BGC  
Ion 108.00 (107.70 to 108.70): BGC  
Ion 77.00 (76.70 to 77.70): BGC





#19

n-Nitroso-di-n-propylamine

Concen: 17.464 ng

RT: 10.10 min Scan# 1160

Delta R.T. 0.39 min

Lab File: BG033144.D

Acq: 14 Mar 2018 12:39

Instrument :

BNA\_G

ClientSampleId :

Tot Ion: 70 Resp: 50950

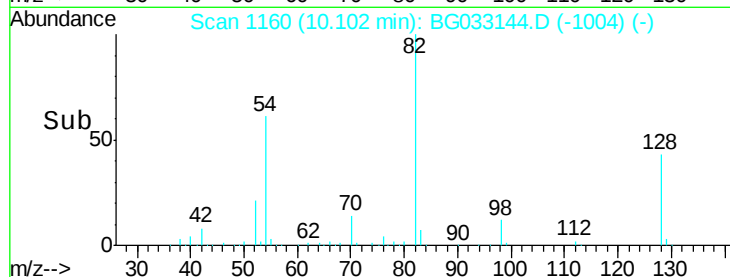
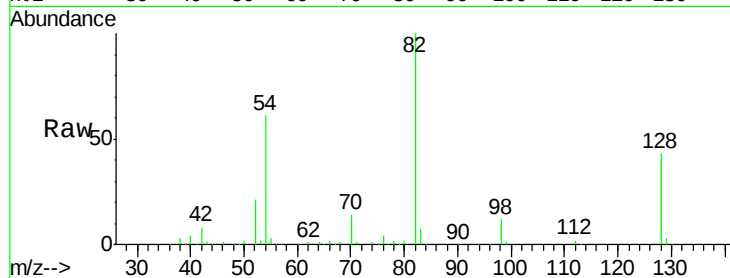
Ion Ratio Lower Upper

70 100

42 54.2 49.1 73.7

101 0.0 8.5 12.7#

130 1.9 13.4 20.0#



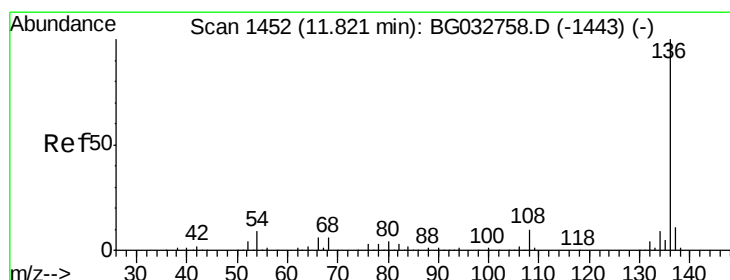
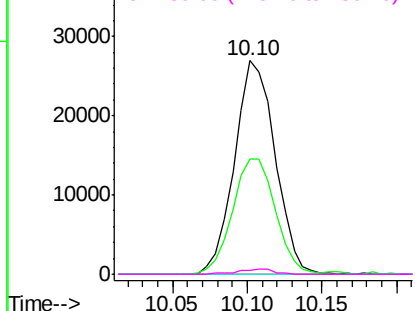
Abundance

Ion 70.00 (69.70 to 70.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 101.00 (100.70 to 101.70): BGC

Ion 130.00 (129.70 to 130.70): BGC



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 11.79 min Scan# 1447

Delta R.T. 0.00 min

Lab File: BG033144.D

Acq: 14 Mar 2018 12:39

Tgt Ion:136 Resp: 206881

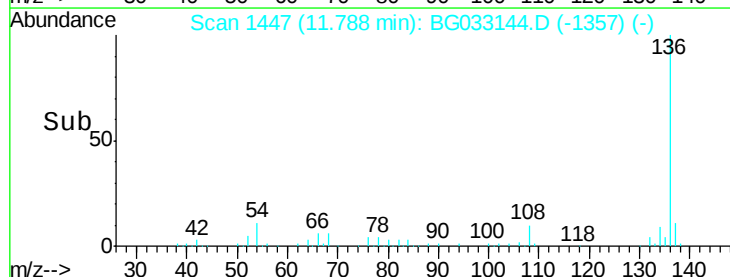
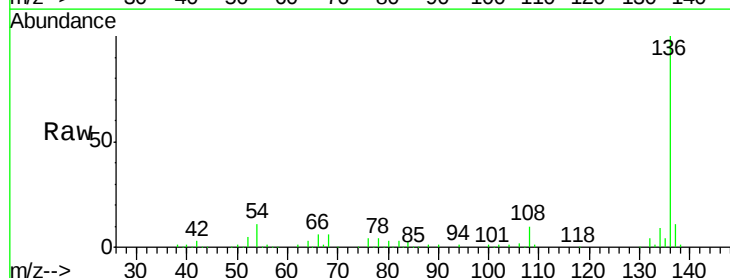
Ion Ratio Lower Upper

136 100

137 11.4 9.2 13.8

54 10.9 10.3 15.5

68 6.2 4.5 6.7



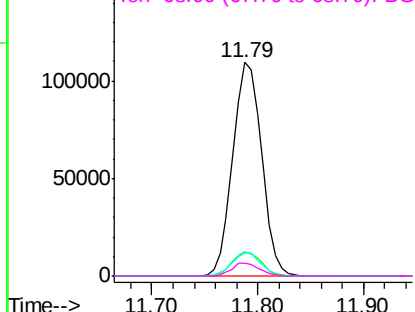
Abundance

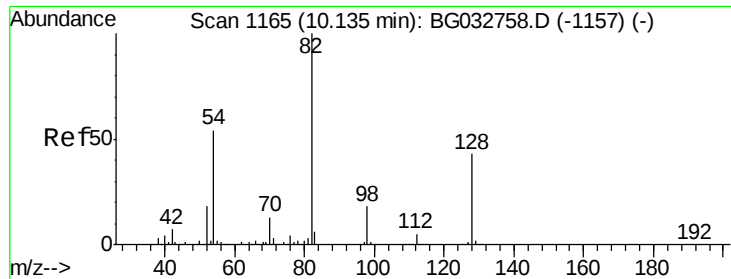
Ion 136.00 (135.70 to 136.70): BGC

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

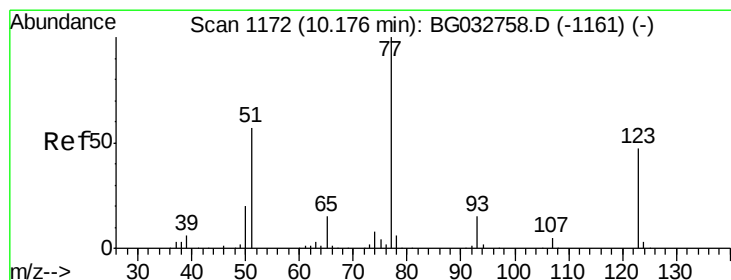
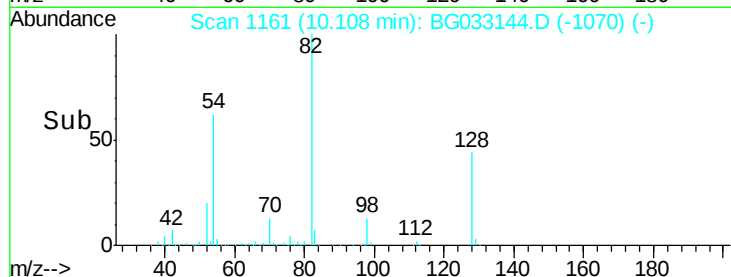
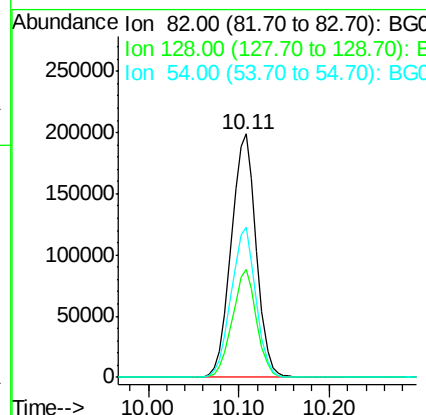
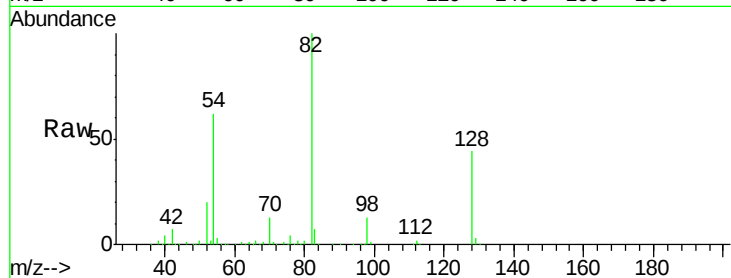




#23  
 Nitrobenzene-d5  
 Concen: 122.842 ng  
 RT: 10.11 min Scan# 1161  
 Delta R.T. 0.01 min  
 Lab File: BG033144.D  
 Acq: 14 Mar 2018 12:39

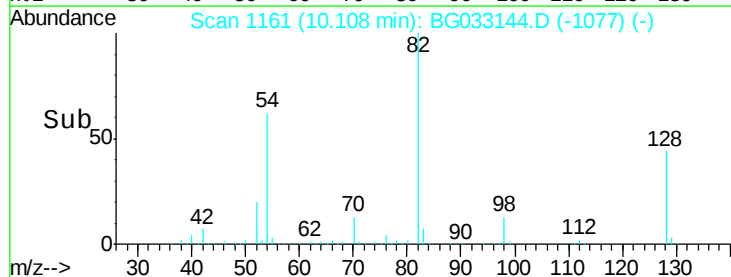
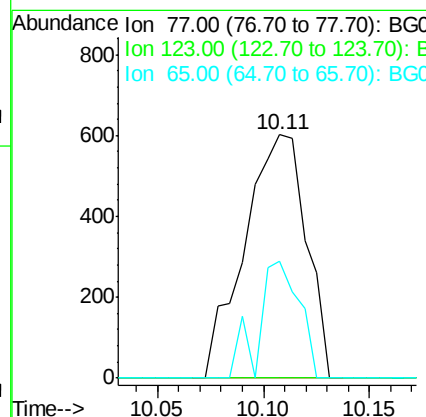
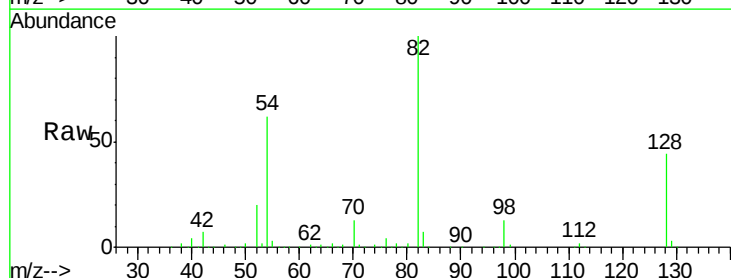
Instrument :  
 BNA\_G  
 ClientSampleId :

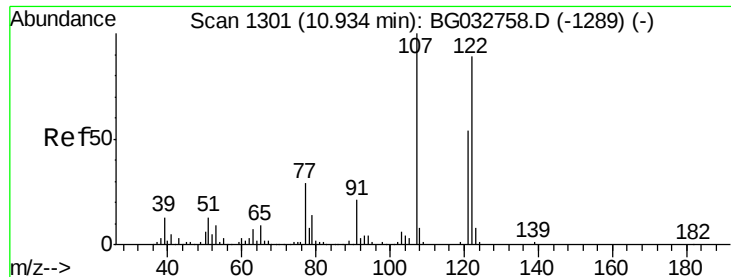
Tot Ion: 82 Resp: 381109  
 Ion Ratio Lower Upper  
 82 100  
 128 44.4 29.7 44.5  
 54 61.7 43.1 64.7



#24  
 Nitrobenzene  
 Concen: 6.701 ng  
 RT: 10.11 min Scan# 1161  
 Delta R.T. -0.04 min  
 Lab File: BG033144.D  
 Acq: 14 Mar 2018 12:39

Tgt Ion: 77 Resp: 1220  
 Ion Ratio Lower Upper  
 77 100  
 123 0.0 33.0 49.6#  
 65 47.8 13.0 19.6#

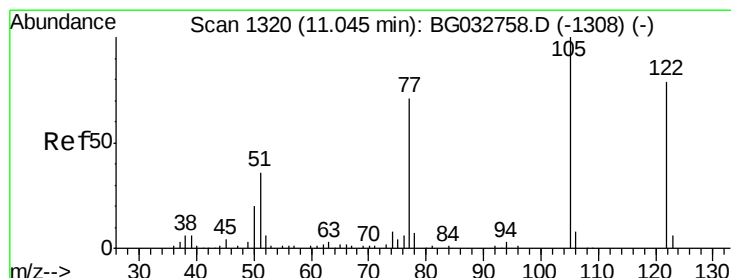
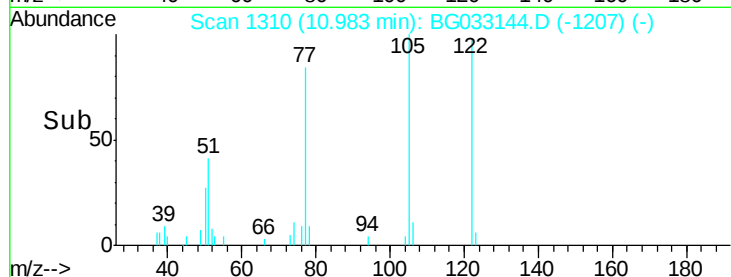
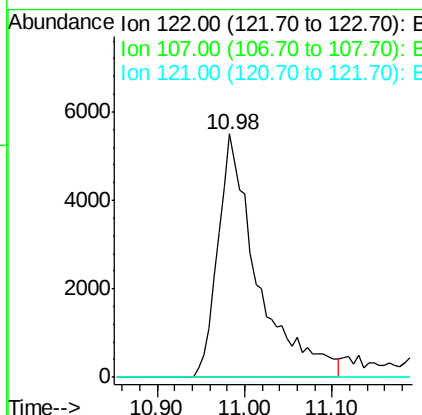
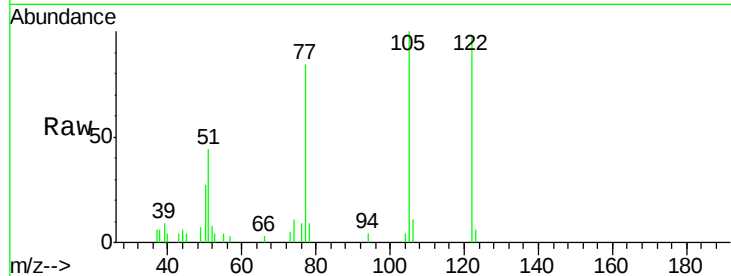




#27  
2,4-Dimethylphenol  
Concen: 5.468 ng  
RT: 10.98 min Scan# 1310  
Delta R.T. 0.08 min  
Lab File: BG033144.D  
Acq: 14 Mar 2018 12:39

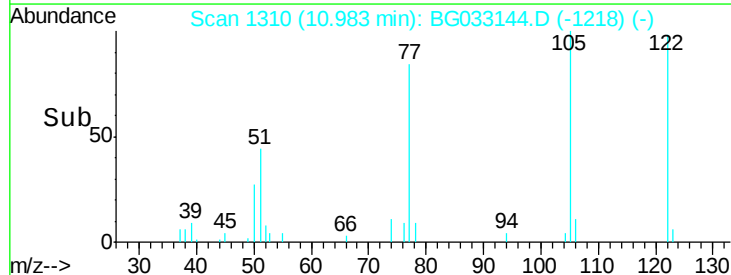
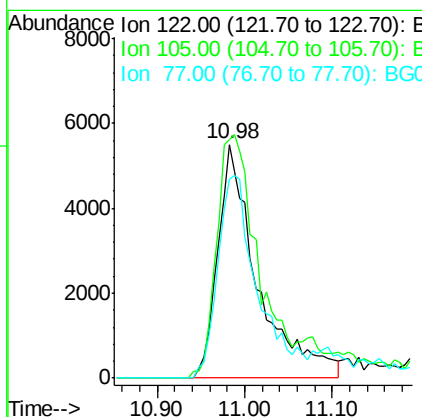
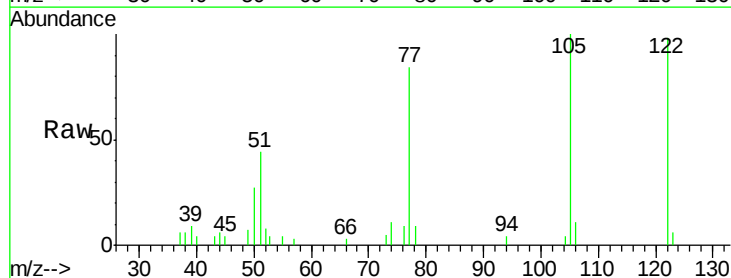
Instrument :  
BNA\_G  
ClientSampleId :

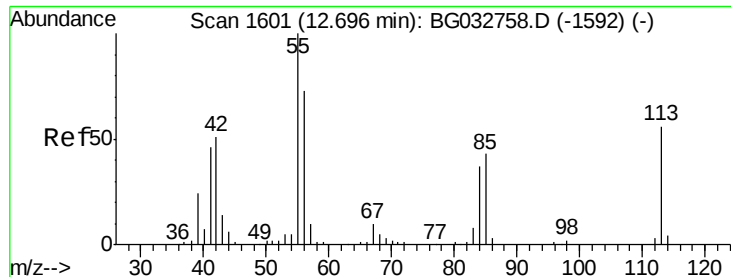
Tot Ion:122 Resp: 17247  
Ion Ratio Lower Upper  
122 100  
107 0.0 100.2 150.2#  
121 0.0 44.4 66.6#



#32  
Benzoic acid  
Concen: 15.669 ng  
RT: 10.98 min Scan# 1310  
Delta R.T. 0.01 min  
Lab File: BG033144.D  
Acq: 14 Mar 2018 12:39

Tgt Ion:122 Resp: 17247  
Ion Ratio Lower Upper  
122 100  
105 101.9 123.5 163.5#  
77 85.4 85.7 125.7#





#35

Caprolactam

Concen: 5.724 ng

RT: 12.66 min Scan# 1596

Delta R.T. -0.03 min

Lab File: BG033144.D

Acq: 14 Mar 2018 12:39

Instrument :

BNA\_G

ClientSampled :

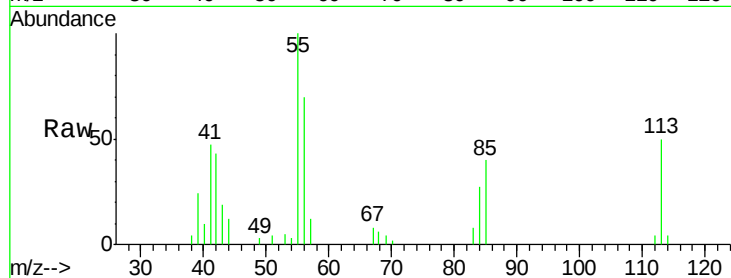
Tot Ion:113 Resp: 6562

Ion Ratio Lower Upper

113 100

55 201.6 186.9 226.9

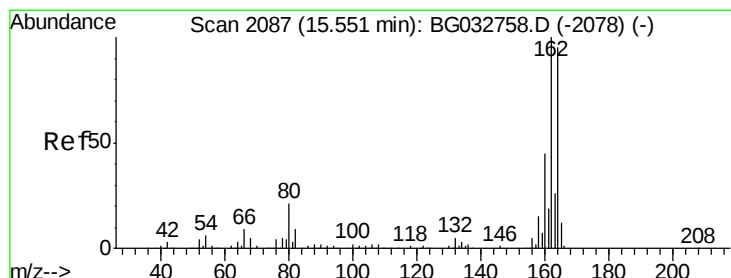
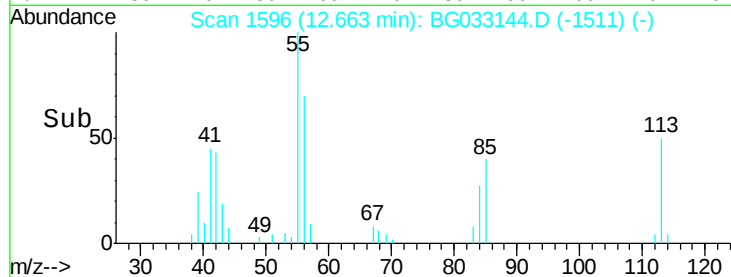
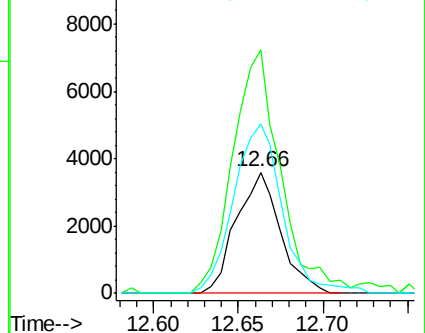
56 140.2 130.9 170.9



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BGC

Ion 56.00 (55.70 to 56.70): BGC



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 15.52 min Scan# 2082

Delta R.T. 0.00 min

Lab File: BG033144.D

Acq: 14 Mar 2018 12:39

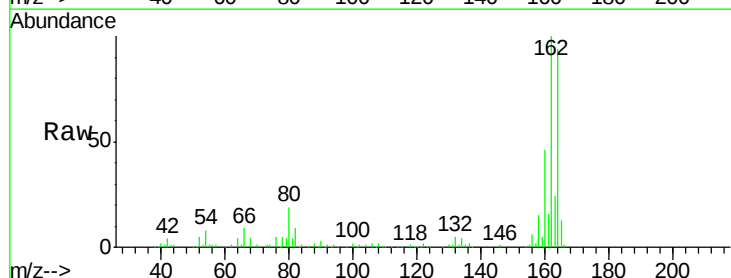
Tgt Ion:164 Resp: 120949

Ion Ratio Lower Upper

164 100

162 106.9 78.8 118.2

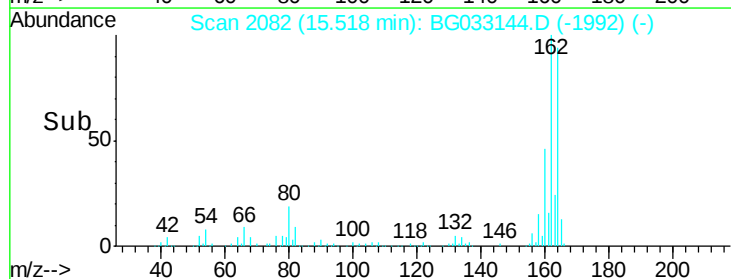
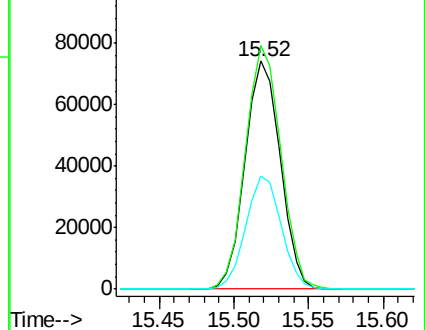
160 49.5 35.4 53.0

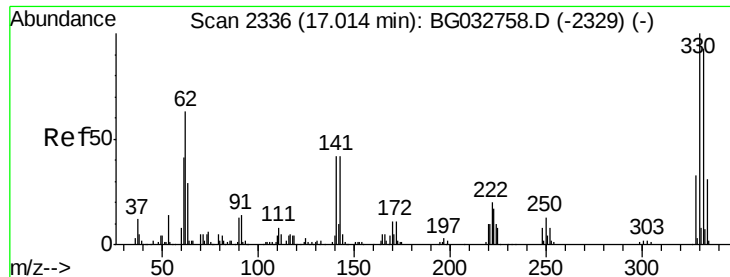


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

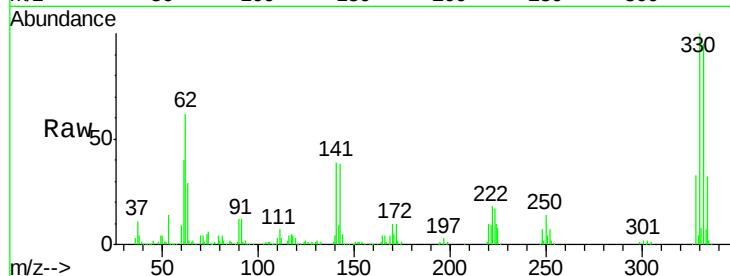




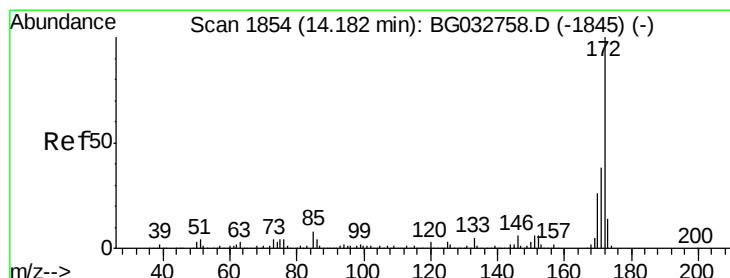
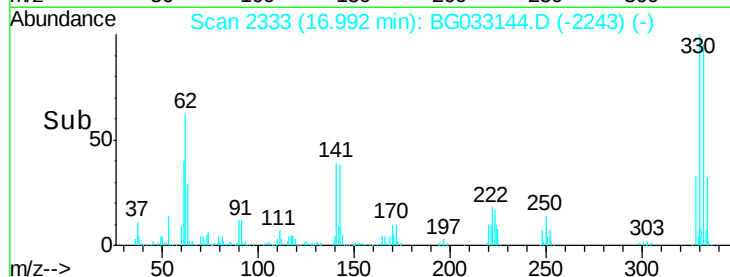
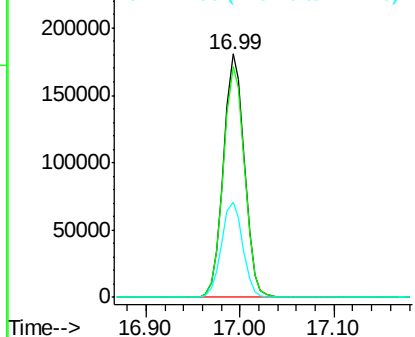
#41  
 2,4,6-Tribromophenol  
 Concen: 221.546 ng  
 RT: 16.99 min Scan# 2333  
 Delta R.T. 0.00 min  
 Lab File: BG033144.D  
 Acq: 14 Mar 2018 12:39

Instrument :  
 BNA\_G  
 ClientSampled :

Tot Ion:330 Resp: 281748  
 Ion Ratio Lower Upper  
 330 100  
 332 96.5 77.0 115.6  
 141 39.6 25.2 37.8#

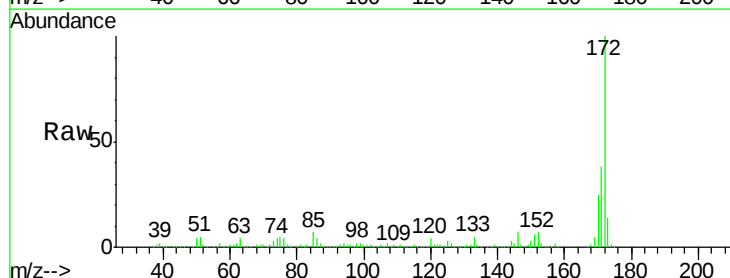


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

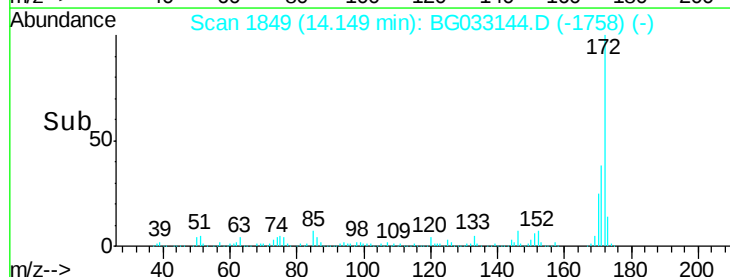
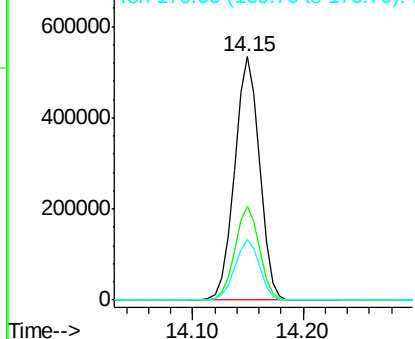


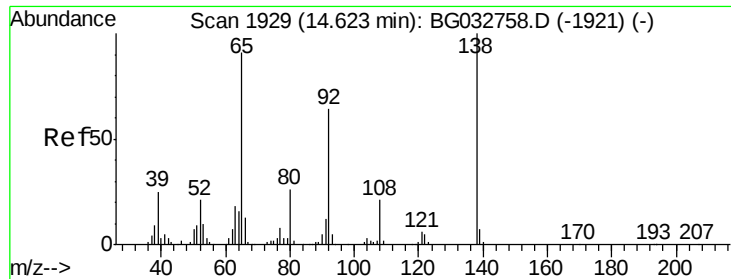
#44  
 2-Fluorobiphenyl  
 Concen: 100.626 ng  
 RT: 14.15 min Scan# 1849  
 Delta R.T. 0.01 min  
 Lab File: BG033144.D  
 Acq: 14 Mar 2018 12:39

Tgt Ion:172 Resp: 843860  
 Ion Ratio Lower Upper  
 172 100  
 171 38.4 30.0 45.0  
 170 25.0 19.5 29.3



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





#47

2-Nitroaniline

Concen: 10.422 ng

RT: 14.15 min Scan# 1849

Delta R.T. -0.45 min

Lab File: BG033144.D

Acq: 14 Mar 2018 12:39

Instrument :

BNA\_G

ClientSampleId :

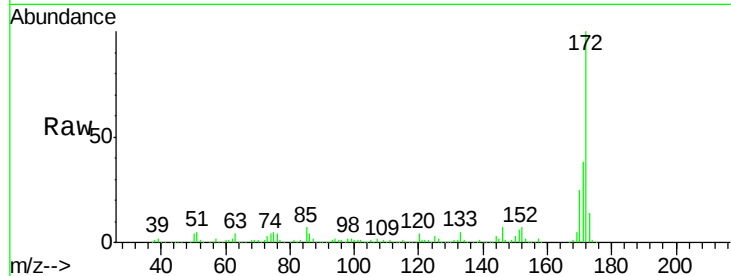
Tot Ion: 65 Resp: 1467

Ion Ratio Lower Upper

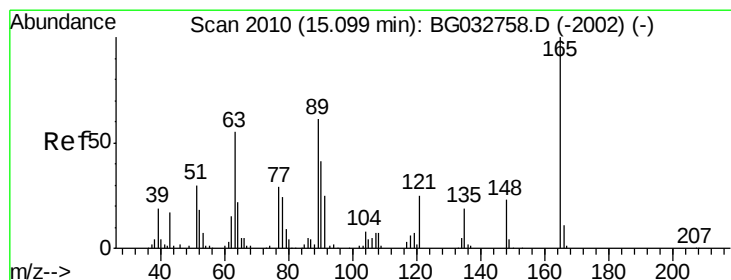
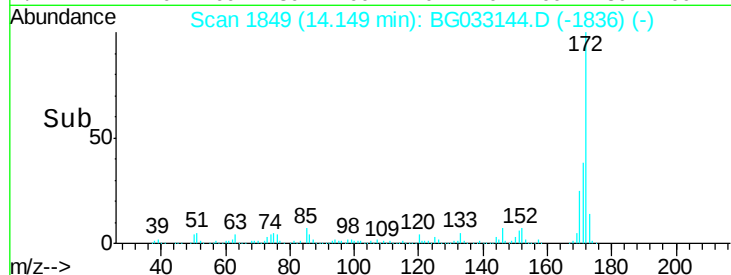
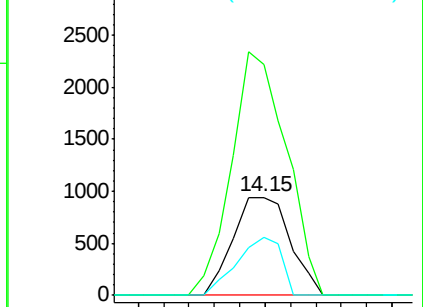
65 100

92 235.8 54.6 82.0#

138 59.1 72.9 109.3#



Abundance Ion 65.00 (64.70 to 65.70): BGC  
Ion 92.00 (91.70 to 92.70): BGC  
Ion 138.00 (137.70 to 138.70): BGC



#50

2,6-Dinitrotoluene

Concen: 16.621 ng

RT: 15.52 min Scan# 2082

Delta R.T. 0.44 min

Lab File: BG033144.D

Acq: 14 Mar 2018 12:39

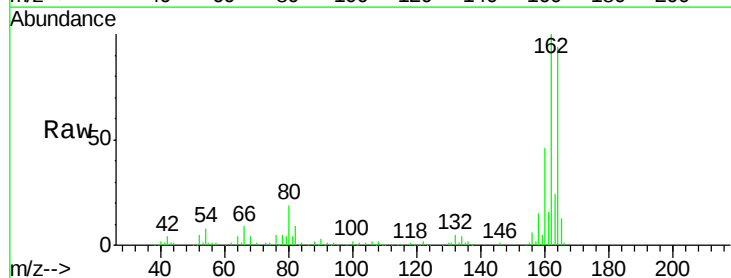
Tgt Ion: 165 Resp: 16114

Ion Ratio Lower Upper

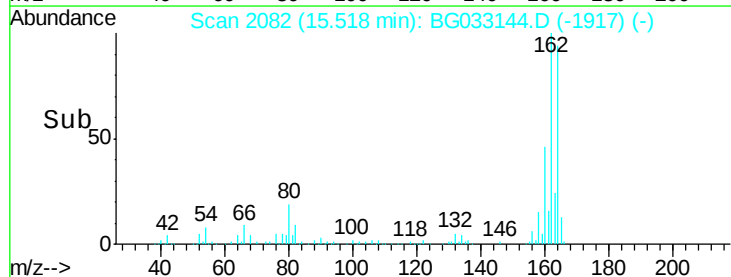
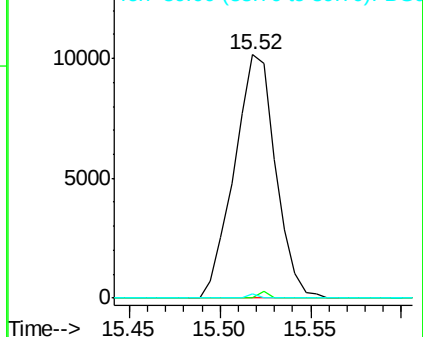
165 100

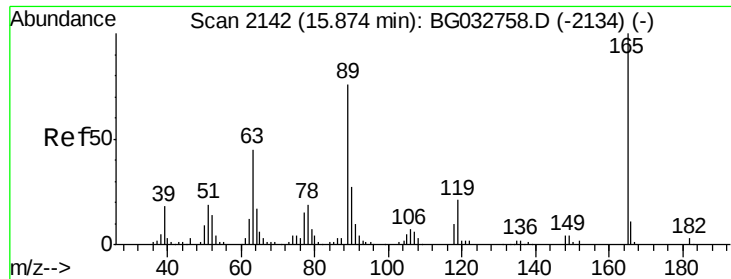
63 0.0 52.7 79.1#

89 2.0 49.2 73.8#



Abundance Ion 165.00 (164.70 to 165.70): BGC  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 89.00 (88.70 to 89.70): BGC

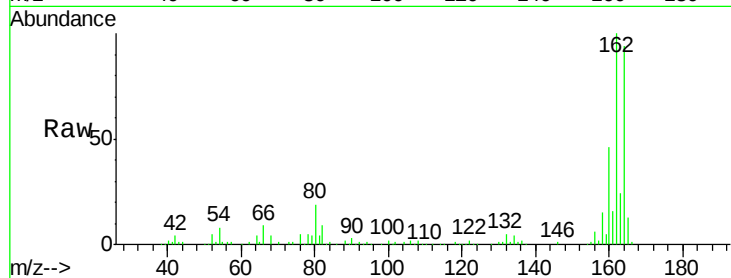




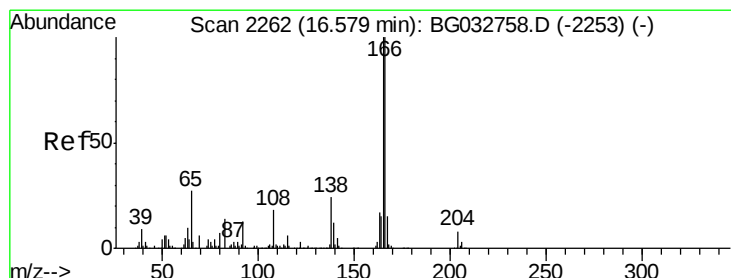
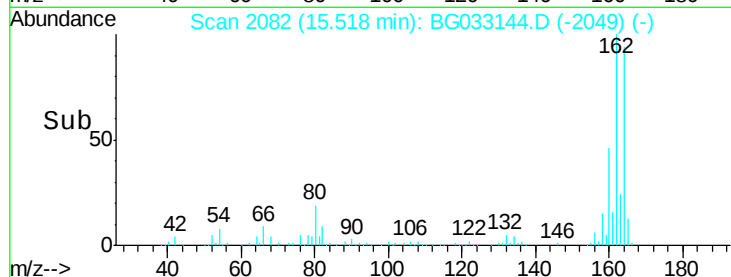
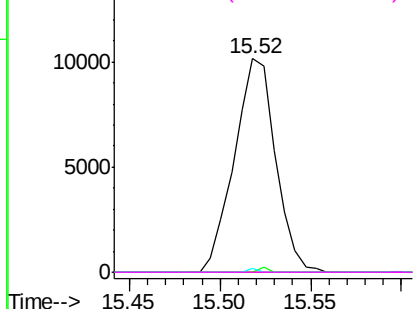
#56  
2,4-Dinitrotoluene  
Concen: 14.820 ng  
RT: 15.52 min Scan# 2082  
Delta R.T. -0.33 min  
Lab File: BG033144.D  
Acq: 14 Mar 2018 12:39

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:165 Resp: 16114  
Ion Ratio Lower Upper  
165 100  
63 0.0 42.0 63.0#  
89 2.0 66.9 100.3#  
182 0.0 2.6 3.8#

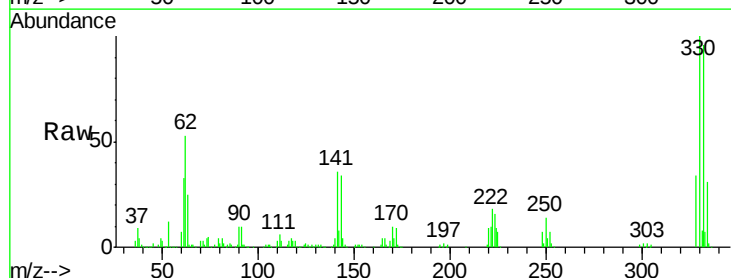


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 89.00 (88.70 to 89.70): BGC  
Ion 182.00 (181.70 to 182.70): E

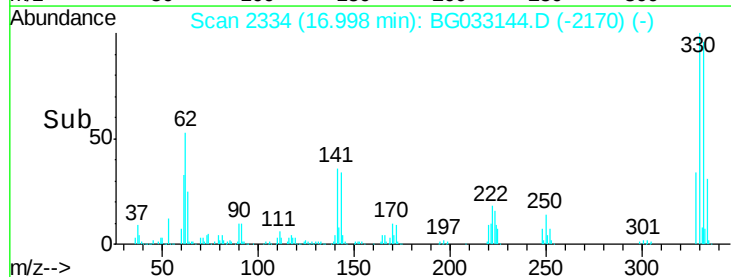
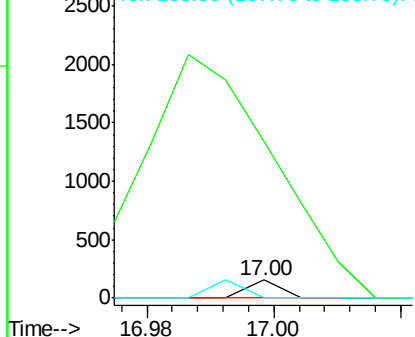


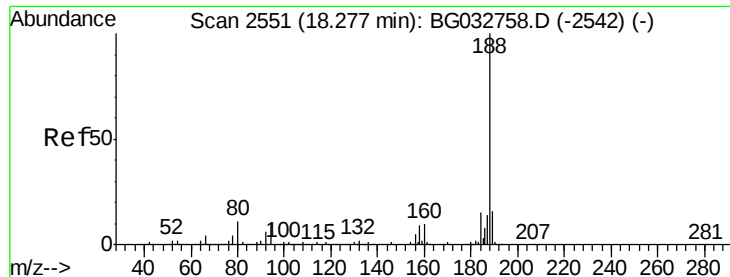
#61  
4-Nitroaniline  
Concen: 5.321 ng  
RT: 17.00 min Scan# 2334  
Delta R.T. 0.43 min  
Lab File: BG033144.D  
Acq: 14 Mar 2018 12:39

Tgt Ion:138 Resp: 54  
Ion Ratio Lower Upper  
138 100  
92 884.2 40.1 80.1#  
108 0.0 65.4 105.4#



Abundance Ion 138.00 (137.70 to 138.70): E  
Ion 92.00 (91.70 to 92.70): BGC  
Ion 108.00 (107.70 to 108.70): E

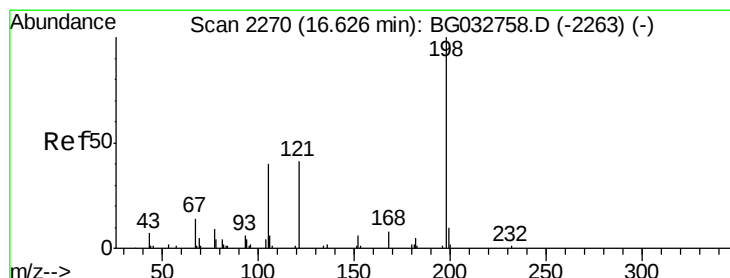
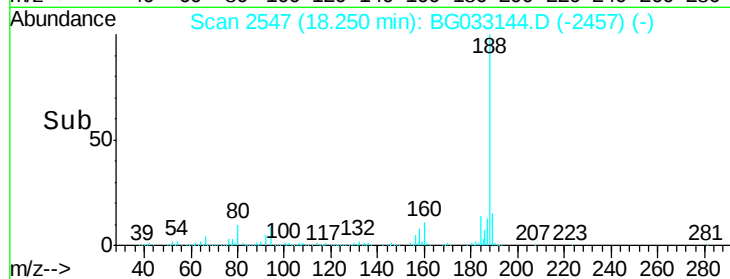
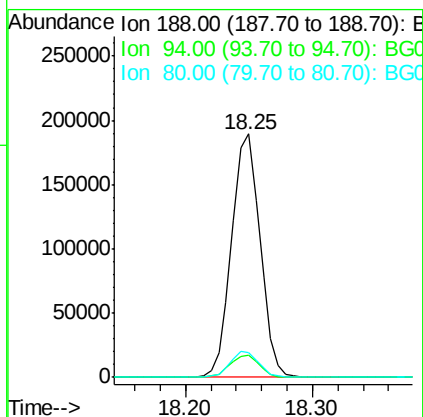
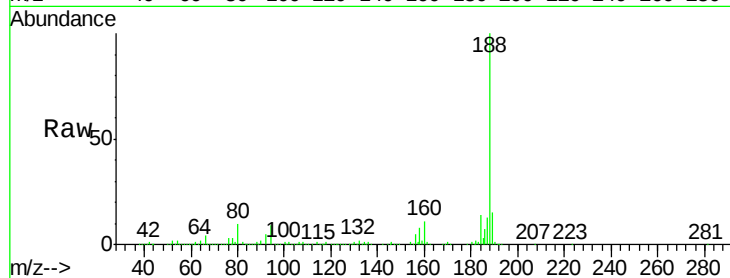




#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 18.25 min Scan# 2547  
 Delta R.T. 0.00 min  
 Lab File: BG033144.D  
 Acq: 14 Mar 2018 12:39

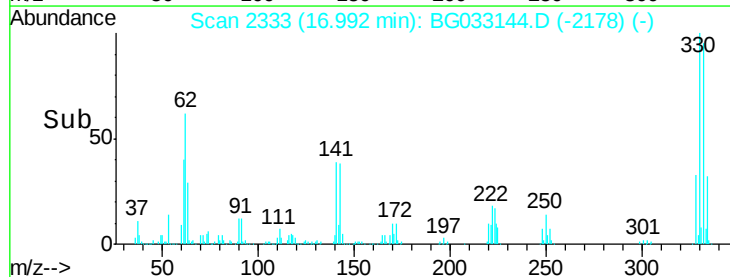
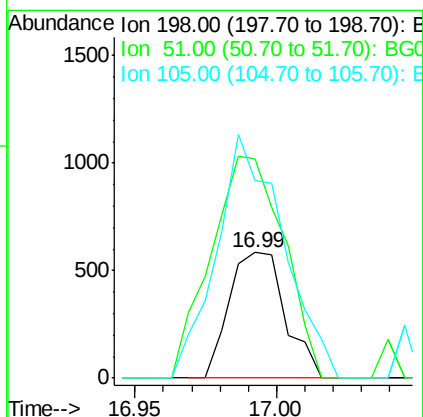
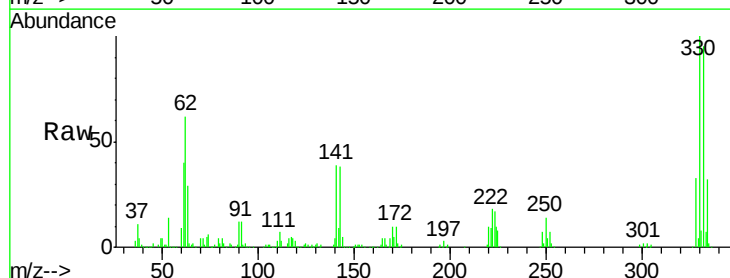
Instrument :  
 BNA\_G  
 ClientSampleId :

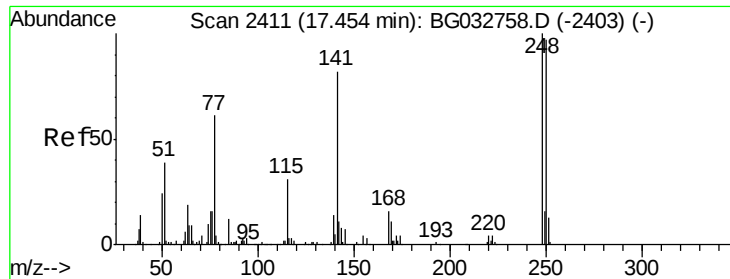
Tot Ion:188 Resp: 294003  
 Ion Ratio Lower Upper  
 188 100  
 94 9.1 6.9 10.3  
 80 10.1 7.7 11.5



#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 6.106 ng  
 RT: 16.99 min Scan# 2333  
 Delta R.T. 0.38 min  
 Lab File: BG033144.D  
 Acq: 14 Mar 2018 12:39

Tgt Ion:198 Resp: 803  
 Ion Ratio Lower Upper  
 198 100  
 51 175.1 30.6 70.6#  
 105 157.5 23.8 63.8#

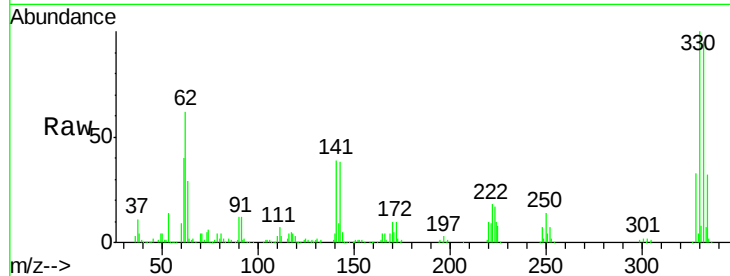




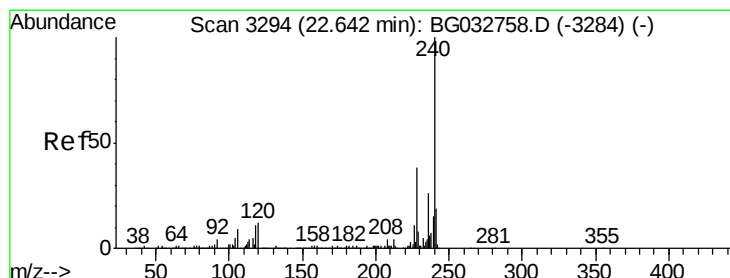
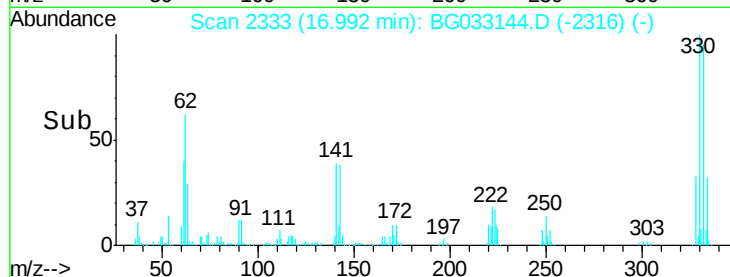
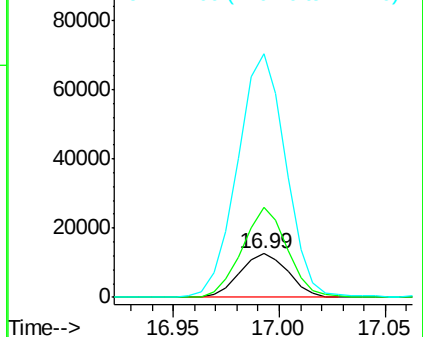
#66  
 4-Bromophenyl-phenylether  
 Concen: 6.360 ng  
 RT: 16.99 min Scan# 2333  
 Delta R.T. -0.43 min  
 Lab File: BG033144.D  
 Acq: 14 Mar 2018 12:39

Instrument :  
 BNA\_G  
 ClientSampled :

Tot Ion:248 Resp: 19772  
 Ion Ratio Lower Upper  
 248 100  
 250 205.9 77.1 115.7#  
 141 558.3 50.8 76.2#

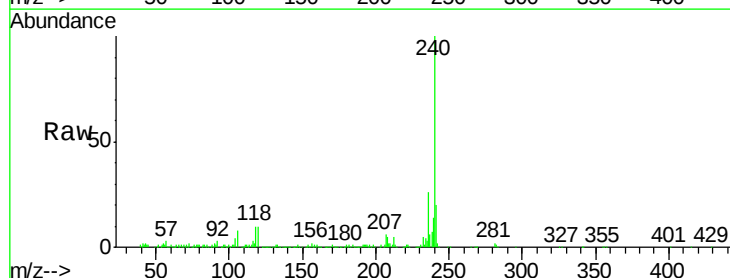


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

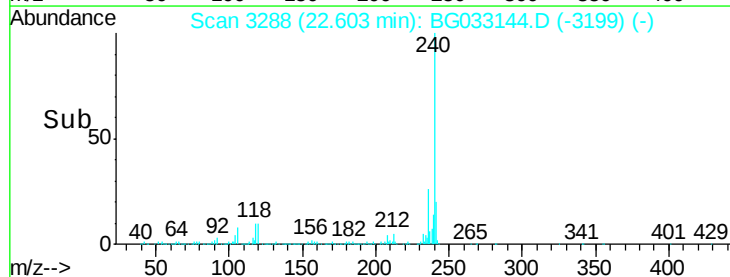
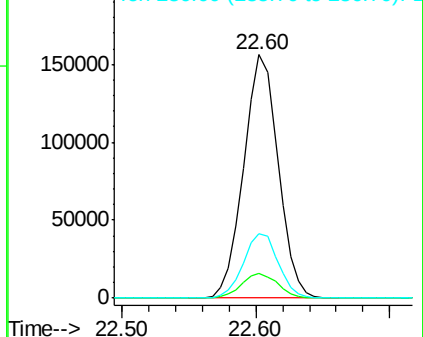


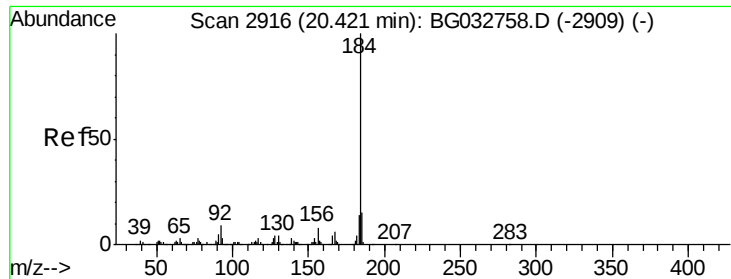
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 22.60 min Scan# 3288  
 Delta R.T. -0.01 min  
 Lab File: BG033144.D  
 Acq: 14 Mar 2018 12:39

Tgt Ion:240 Resp: 278736  
 Ion Ratio Lower Upper  
 240 100  
 120 10.4 6.8 10.2#  
 236 26.4 20.9 31.3



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





#76

Benzidine

Concen: 2.461 ng

RT: 20.76 min Scan# 2975

Delta R.T. 0.36 min

Lab File: BG033144.D

Acq: 14 Mar 2018 12:39

Instrument :

BNA\_G

ClientSampleId :

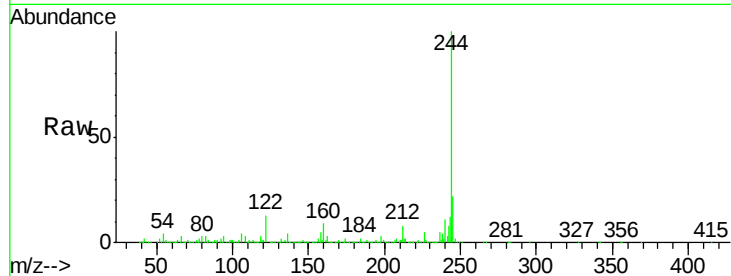
Tot Ion:184 Resp: 23378

Ion Ratio Lower Upper

184 100

185 15.8 11.1 16.7

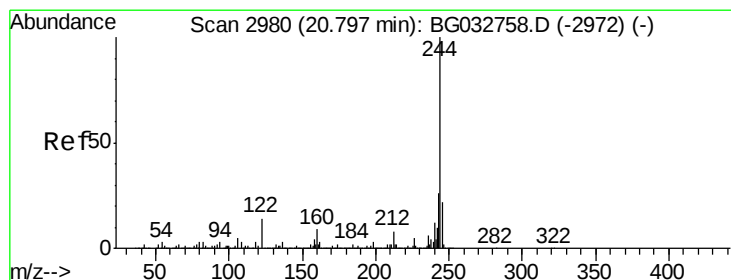
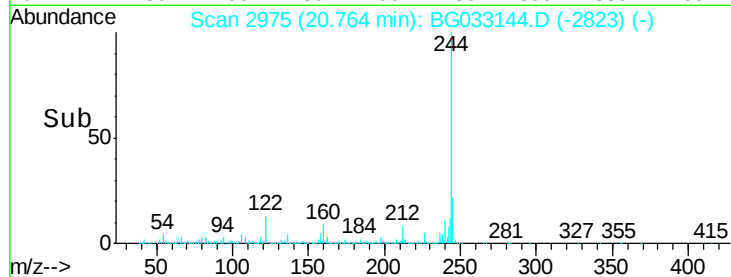
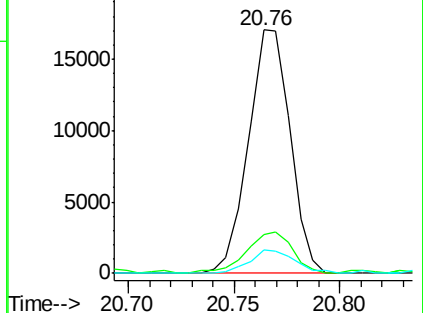
183 9.7 10.6 16.0#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Terphenyl-d14

Concen: 106.744 ng

RT: 20.77 min Scan# 2976

Delta R.T. 0.01 min

Lab File: BG033144.D

Acq: 14 Mar 2018 12:39

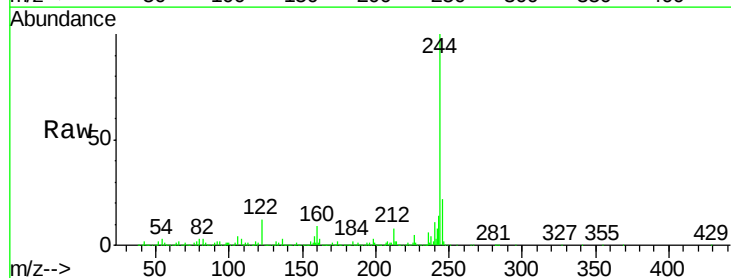
Tgt Ion:244 Resp: 1324298

Ion Ratio Lower Upper

244 100

212 8.4 5.8 8.8

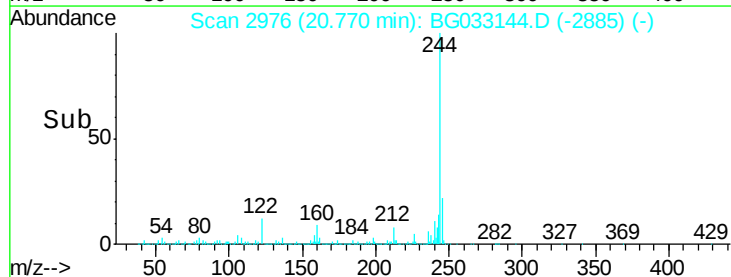
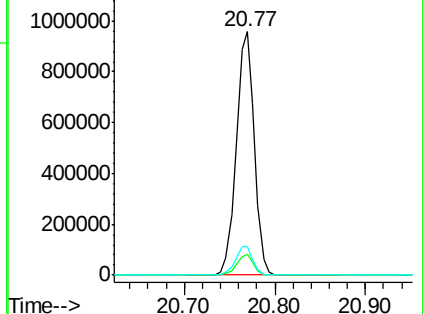
122 11.5 7.0 10.4#

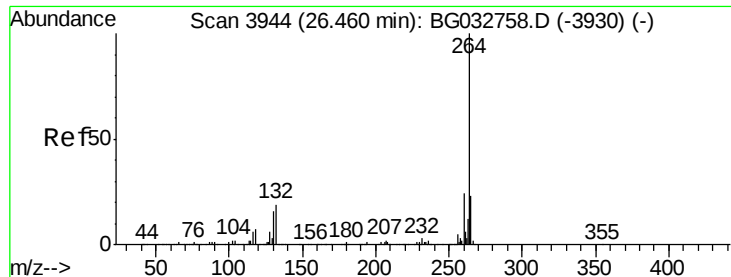


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 26.41 min Scan# 3936  
Delta R.T. 0.00 min  
Lab File: BG033144.D  
Acq: 14 Mar 2018 12:39

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 17.4  | 26.0  |
| 265     | 22.8  | 17.7  | 26.5  |

