

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA G\DATA\BG030918\  
 Data File : BG033077.D  
 Acq On : 9 Mar 2018 18:07  
 Operator : SJ/JU  
 Sample : J1855-07  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Mar 09 23:30:26 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 09 15:10:14 2018  
 Response via : Initial Calibration

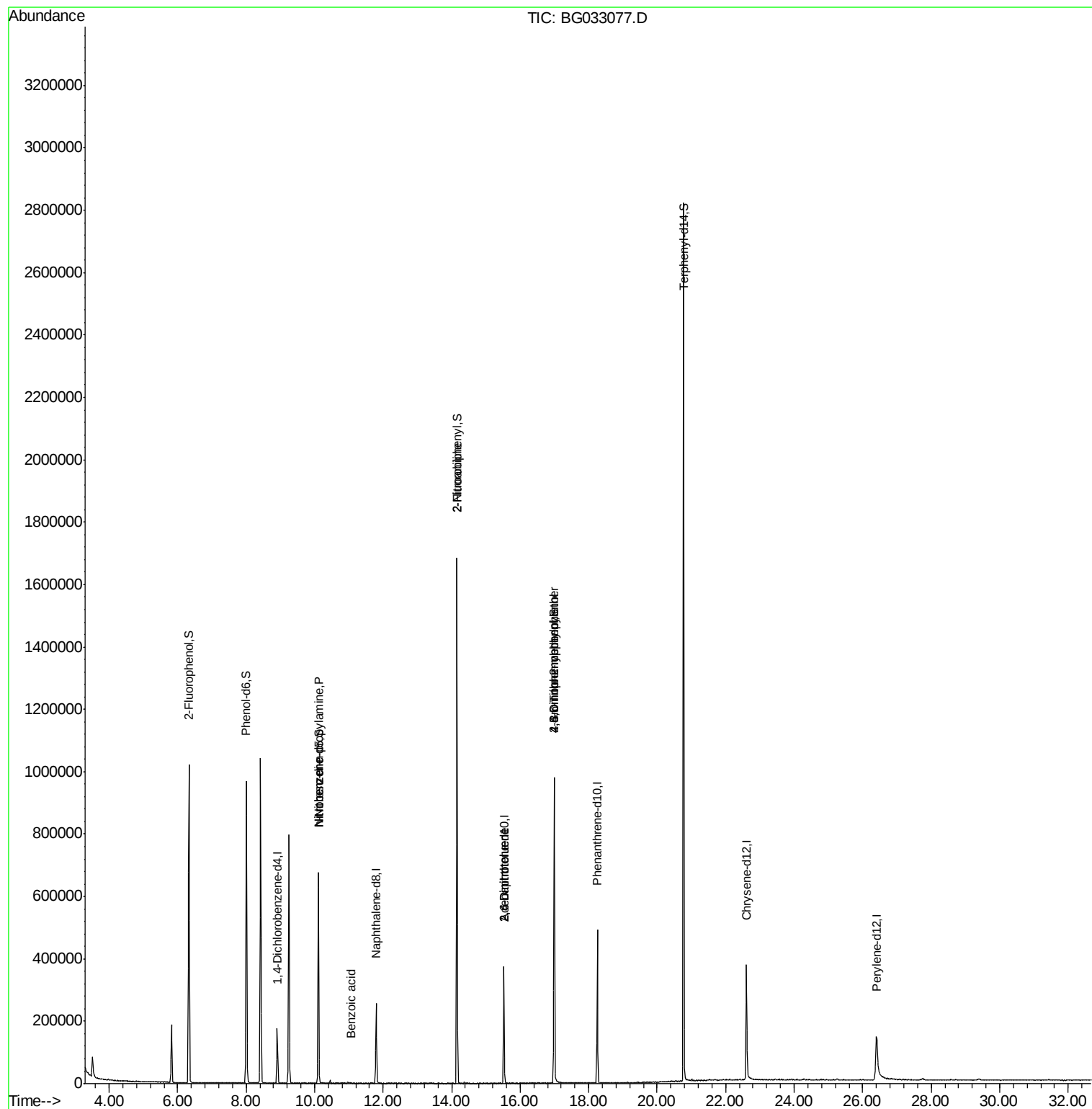
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.91  | 152  | 52327    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 11.80 | 136  | 227952   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 15.53 | 164  | 128342   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 18.25 | 188  | 296800   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 22.61 | 240  | 275727   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 26.41 | 264  | 239768   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.33  | 112  | 463450   | 141.70 | ng    | 0.00     |
| 7) Phenol-d6                   | 8.01  | 99   | 573048   | 125.70 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 10.11 | 82   | 414751   | 121.45 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.99 | 330  | 182157   | 134.98 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 14.15 | 172  | 860887   | 96.74  | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.77 | 244  | 1324154  | 107.90 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 10.11 | 70   | 55945    | 17.382 | ng    | # 85     |
| 24) Nitrobenzene               | 10.11 | 77   | 1239     | 6.676  | ng    | # 43     |
| 32) Benzoic acid               | 11.05 | 122  | 144      | 5.896  | ng    | # 28     |
| 47) 2-Nitroaniline             | 14.15 | 65   | 1507     | 10.403 | ng    | # 1      |
| 50) 2,6-Dinitrotoluene         | 15.53 | 165  | 16736    | 16.457 | ng    | # 21     |
| 56) 2,4-Dinitrotoluene         | 15.53 | 165  | 16736    | 14.655 | ng    | # 19     |
| 64) 4,6-Dinitro-2-methylphenol | 16.99 | 198  | 638      | 5.861  | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 16.99 | 248  | 12681    | 4.041  | ng    | # 1      |

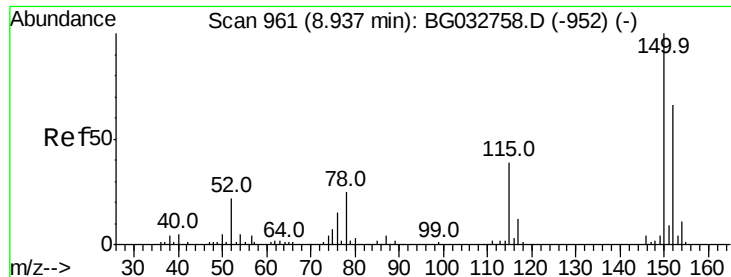
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA G\DATA\BG030918\  
Data File : BG033077.D  
Acq On : 9 Mar 2018 18:07  
Operator : SJ/JU  
Sample : J1855-07  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Mar 09 23:30:26 2018  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022118.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Mar 09 15:10:14 2018  
Response via : Initial Calibration



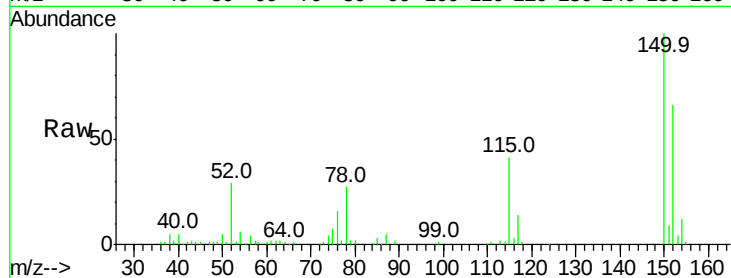


#1

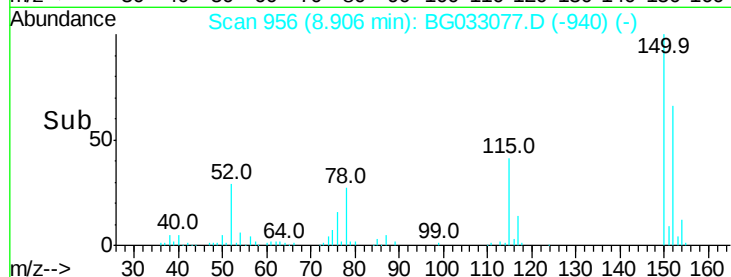
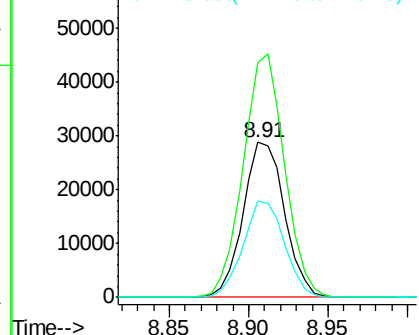
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.91 min Scan# 956  
Delta R.T. -0.00 min  
Lab File: BG033077.D  
Acq: 9 Mar 2018 18:07

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 52327  
Ion Ratio Lower Upper  
152 100  
150 151.8 126.6 189.8  
115 62.3 53.0 79.4



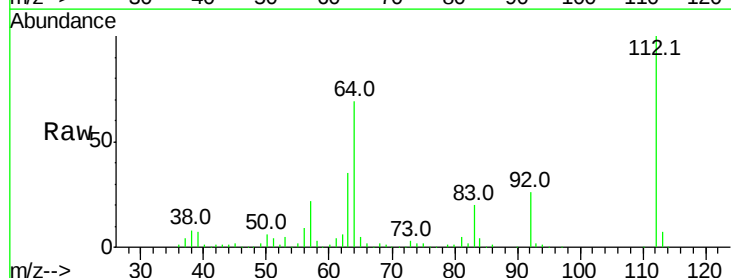
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



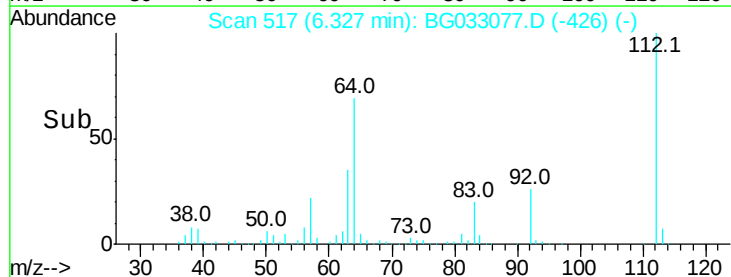
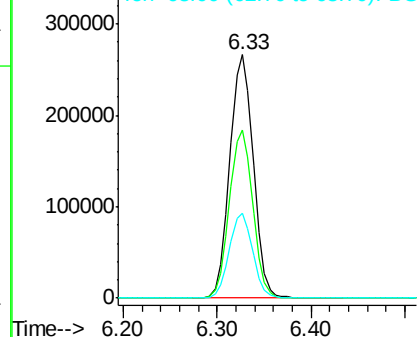
#5

2-Fluorophenol  
Concen: 141.696 ng  
RT: 6.33 min Scan# 517  
Delta R.T. 0.00 min  
Lab File: BG033077.D  
Acq: 9 Mar 2018 18:07

Tgt Ion:112 Resp: 463450  
Ion Ratio Lower Upper  
112 100  
64 69.0 56.3 84.5  
63 34.8 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: 125.697 ng

RT: 8.01 min Scan# 803

Delta R.T. 0.00 min

Lab File: BG033077.D

Acq: 9 Mar 2018 18:07

Instrument :

BNA\_G

ClientSampleId :

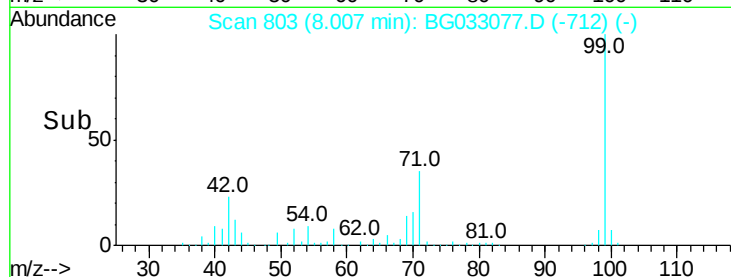
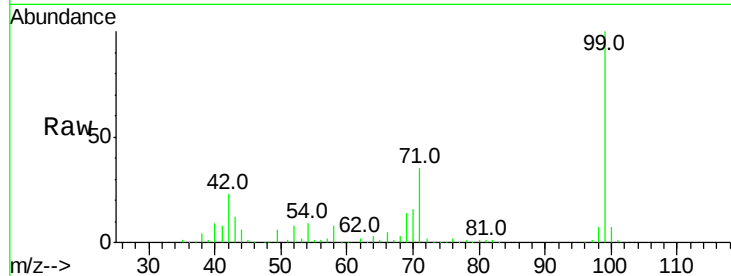
Tot Ion: 99 Resp: 573048

Ion Ratio Lower Upper

99 100

42 22.6 14.1 21.1#

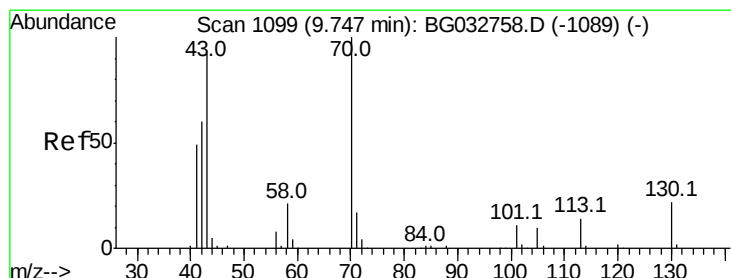
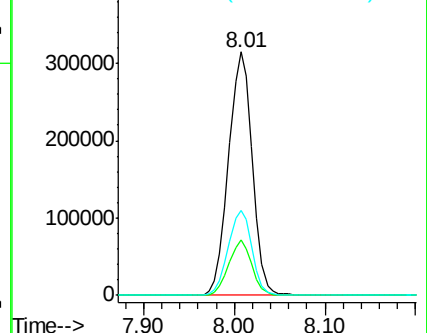
71 34.9 26.1 39.1



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



#19

n-Nitroso-di-n-propylamine

Concen: 17.382 ng

RT: 10.11 min Scan# 1161

Delta R.T. 0.39 min

Lab File: BG033077.D

Acq: 9 Mar 2018 18:07

Tgt Ion: 70 Resp: 55945

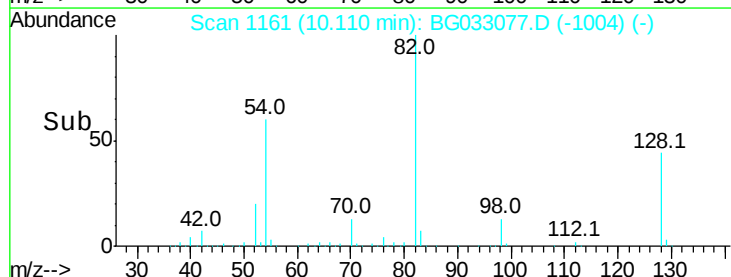
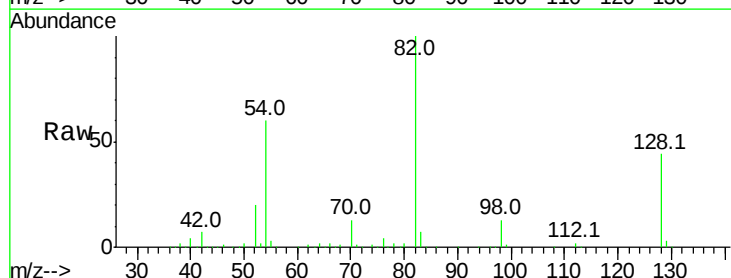
Ion Ratio Lower Upper

70 100

42 55.4 49.1 73.7

101 0.0 8.5 12.7#

130 2.1 13.4 20.0#

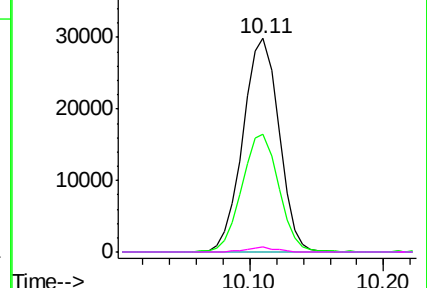


Abundance Ion 70.00 (69.70 to 70.70): BGC

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

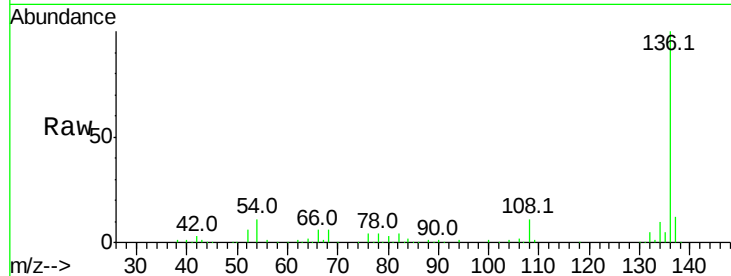




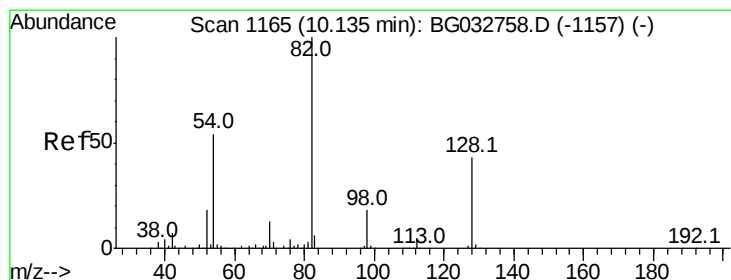
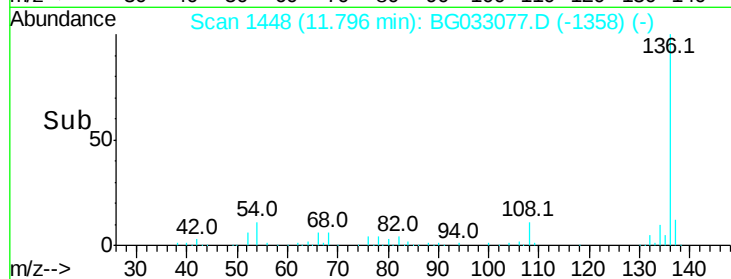
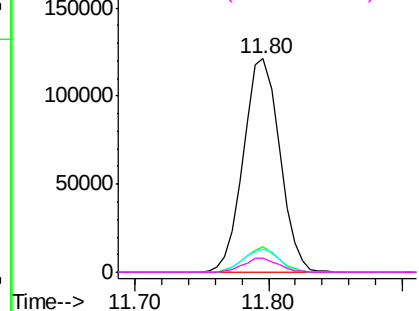
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.80 min Scan# 1448  
Delta R.T. -0.00 min  
Lab File: BG033077.D  
Acq: 9 Mar 2018 18:07

Instrument :  
BNA\_G  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 227952 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.9  | 9.2   | 13.8   |
| 54       | 10.9  | 10.3  | 15.5   |
| 68       | 6.4   | 4.5   | 6.7    |

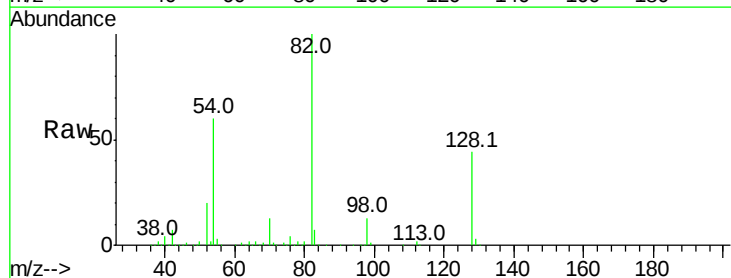


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

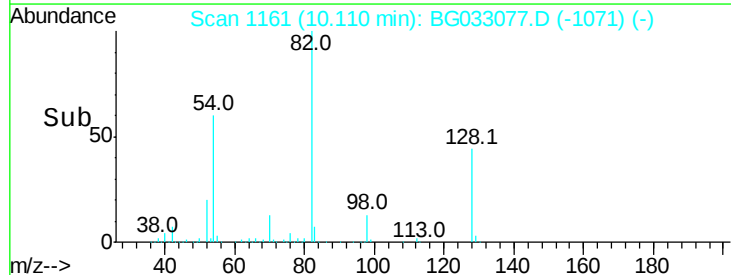
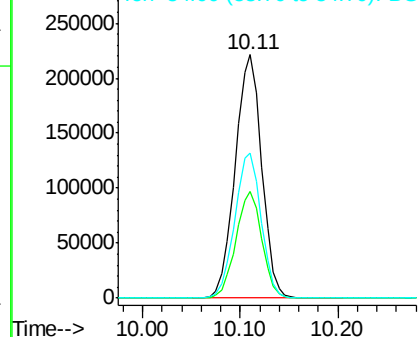


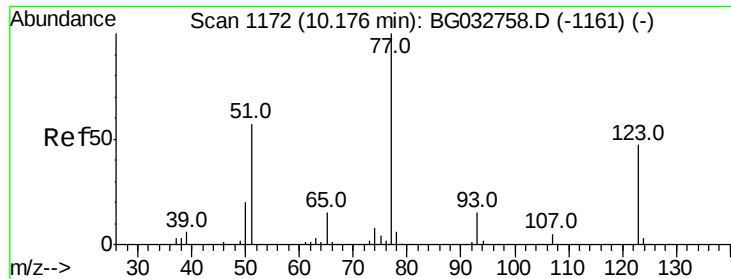
#23  
Nitrobenzene-d5  
Concen: 121.450 ng  
RT: 10.11 min Scan# 1161  
Delta R.T. -0.00 min  
Lab File: BG033077.D  
Acq: 9 Mar 2018 18:07

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 414751 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 43.8  | 29.7  | 44.5   |
| 54       | 59.8  | 43.1  | 64.7   |



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

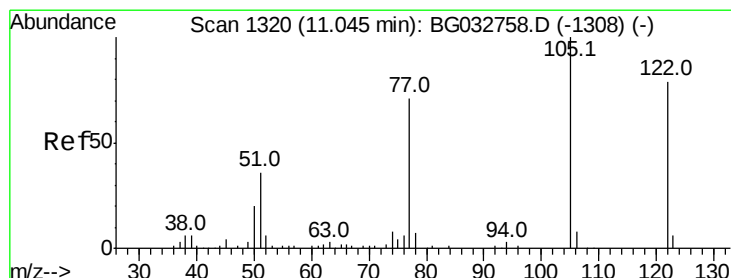
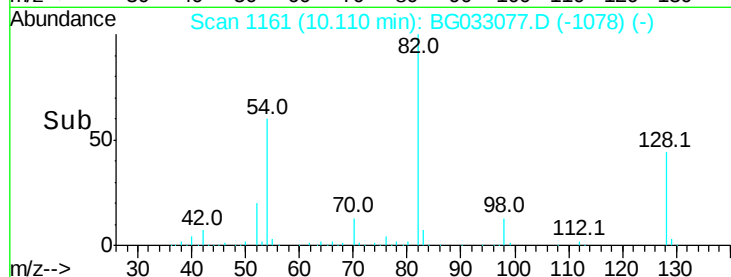
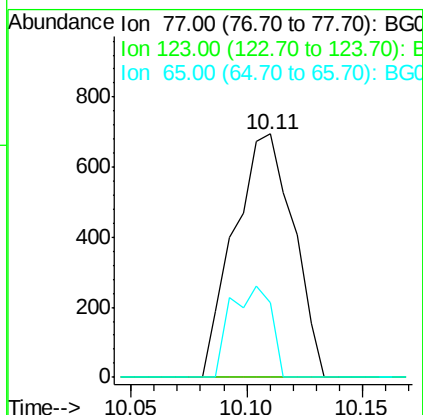
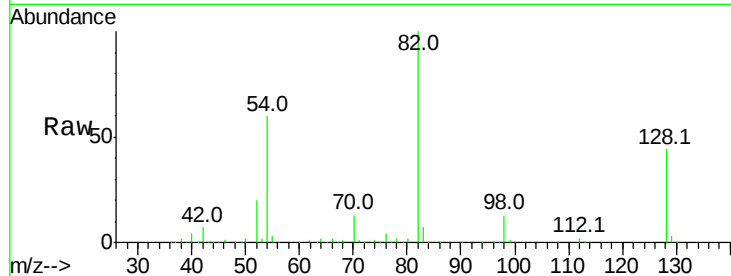




#24  
Nitrobenzene  
Concen: 6.676 ng  
RT: 10.11 min Scan# 1161  
Delta R.T. -0.04 min  
Lab File: BG033077.D  
Acq: 9 Mar 2018 18:07

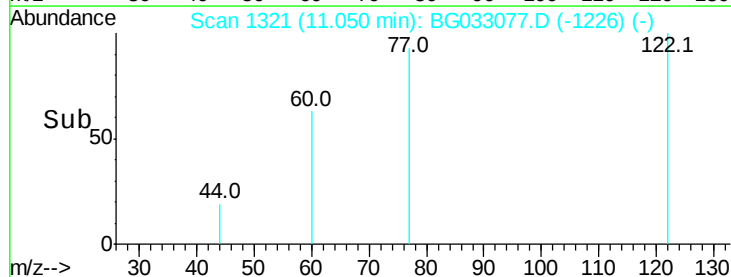
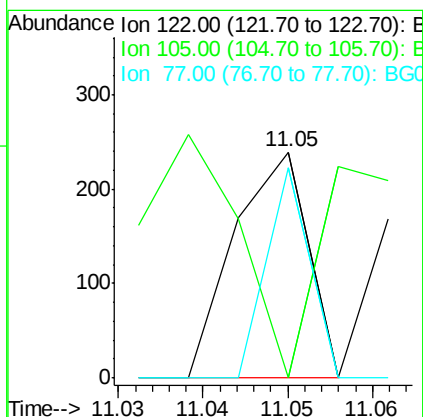
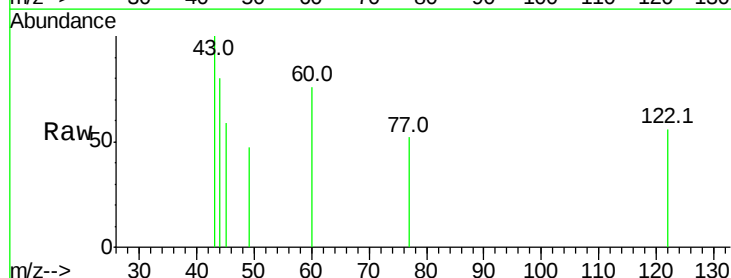
Instrument :  
BNA\_G  
ClientSampleId :

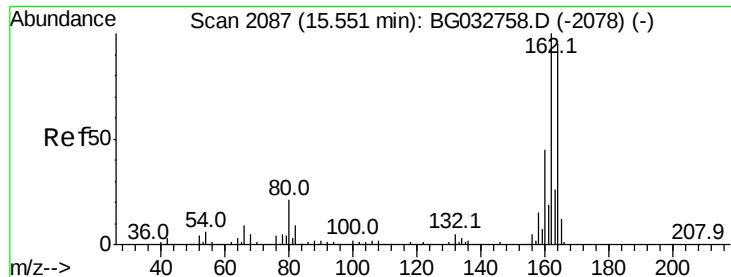
Tot Ion: 77 Resp: 1239  
Ion Ratio Lower Upper  
77 100  
123 0.0 33.0 49.6#  
65 30.5 13.0 19.6#



#32  
Benzoic acid  
Concen: 5.896 ng  
RT: 11.05 min Scan# 1321  
Delta R.T. 0.03 min  
Lab File: BG033077.D  
Acq: 9 Mar 2018 18:07

Tgt Ion: 122 Resp: 144  
Ion Ratio Lower Upper  
122 100  
105 0.0 123.5 163.5#  
77 93.3 85.7 125.7





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 15.53 min Scan# 2083

Delta R.T. -0.00 min

Lab File: BG033077.D

Acq: 9 Mar 2018 18:07

Instrument :

BNA\_G

ClientSampleId :

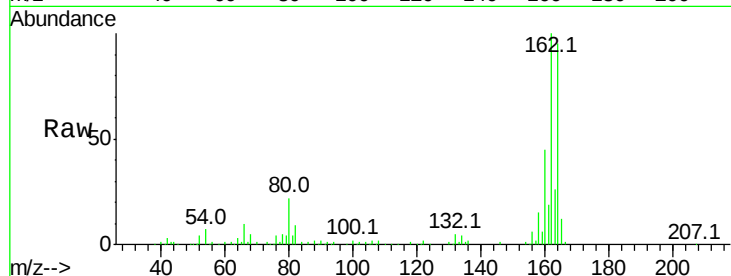
Tot Ion:164 Resp: 128342

Ion Ratio Lower Upper

164 100

162 105.8 78.8 118.2

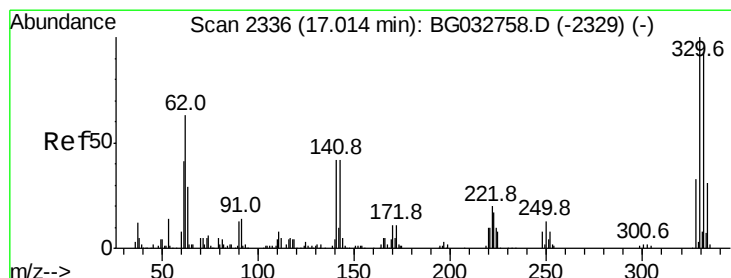
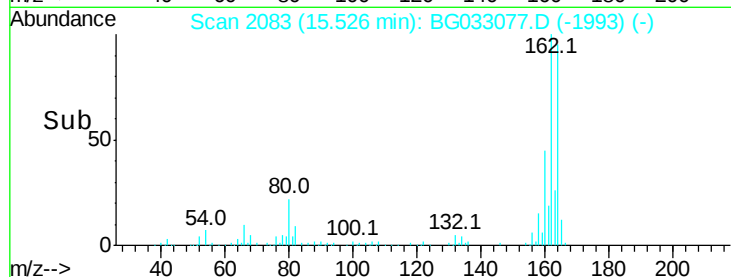
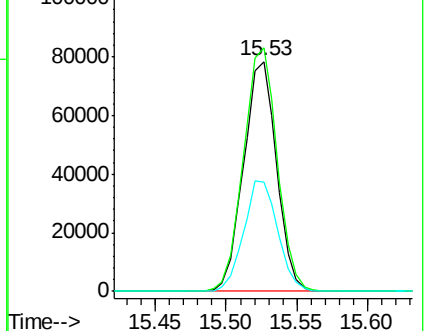
160 47.2 35.4 53.0



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: 134.984 ng

RT: 16.99 min Scan# 2333

Delta R.T. -0.00 min

Lab File: BG033077.D

Acq: 9 Mar 2018 18:07

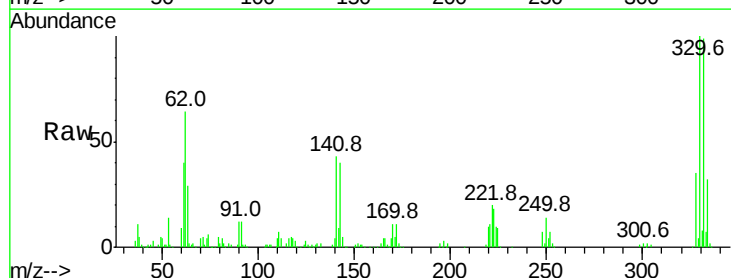
Tgt Ion:330 Resp: 182157

Ion Ratio Lower Upper

330 100

332 96.1 77.0 115.6

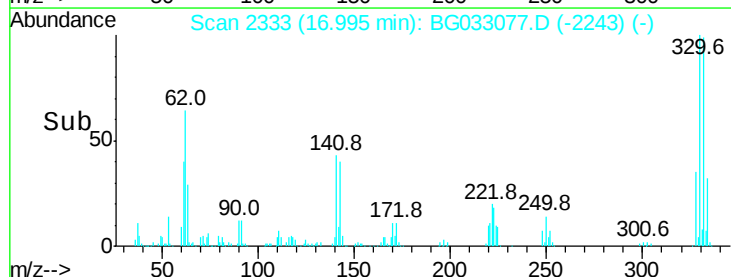
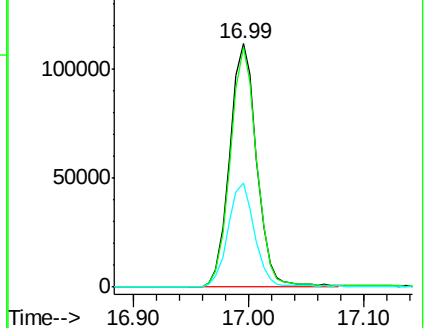
141 42.1 25.2 37.8#

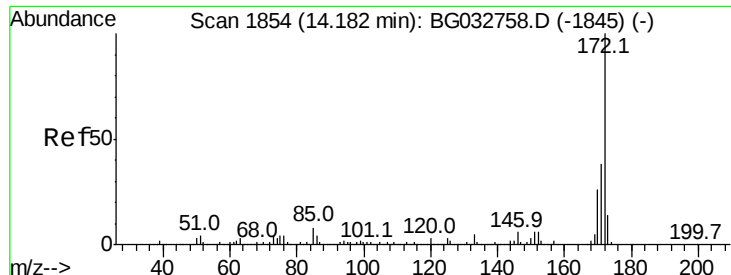


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

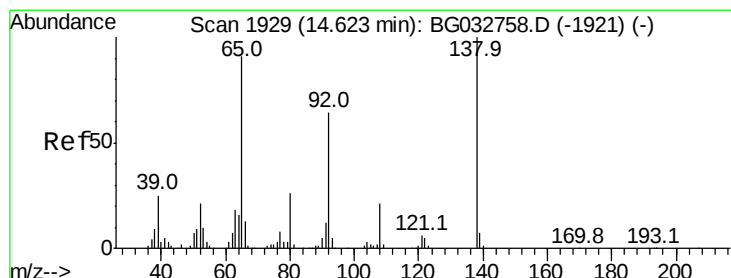
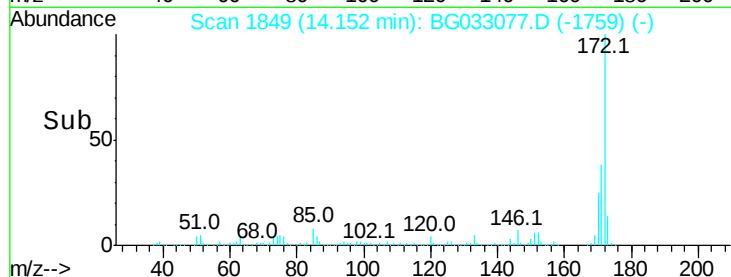
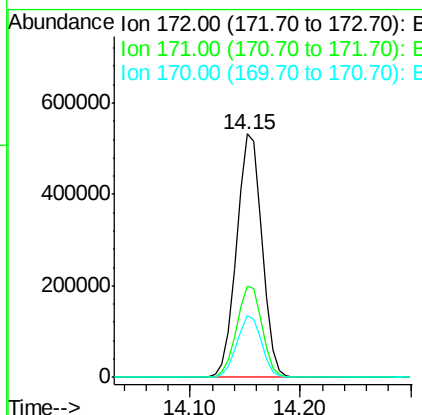
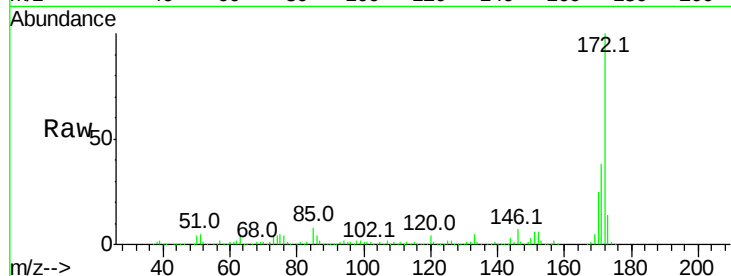




#44  
2-Fluorobiphenyl  
Concen: 96.743 ng  
RT: 14.15 min Scan# 1849  
Delta R.T. -0.00 min  
Lab File: BG033077.D  
Acq: 9 Mar 2018 18:07

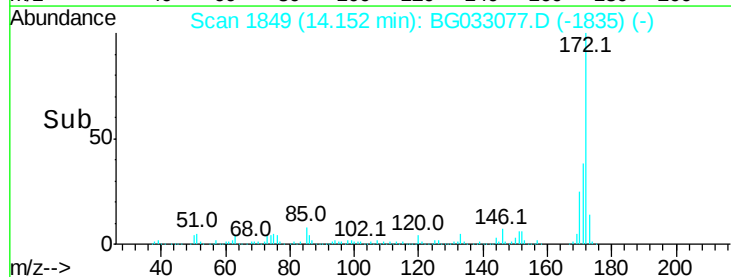
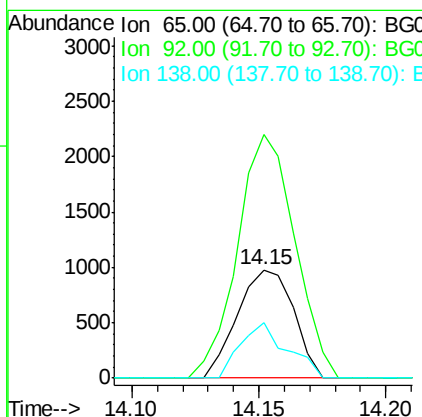
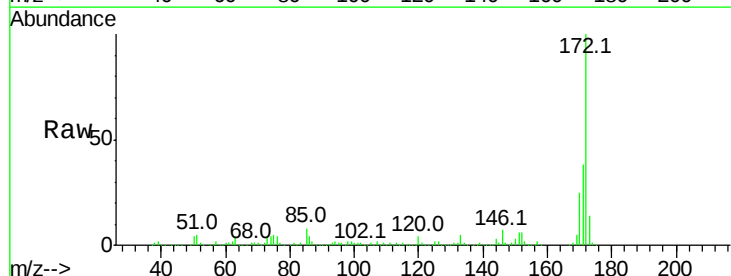
Instrument :  
BNA\_G  
ClientSampleId :

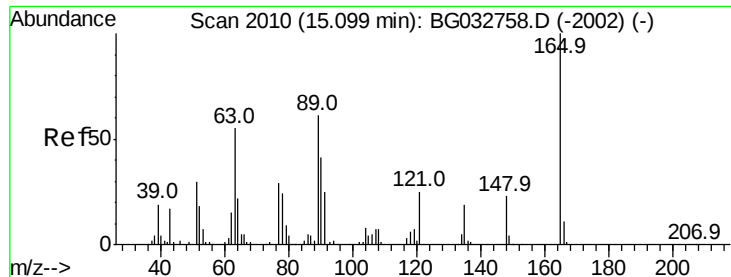
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.6  | 30.0  | 45.0  |
| 170     | 25.2  | 19.5  | 29.3  |



#47  
2-Nitroaniline  
Concen: 10.403 ng  
RT: 14.15 min Scan# 1849  
Delta R.T. -0.45 min  
Lab File: BG033077.D  
Acq: 9 Mar 2018 18:07

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 65      | 100   |       |        |
| 92      | 225.7 | 54.6  | 82.0#  |
| 138     | 52.0  | 72.9  | 109.3# |

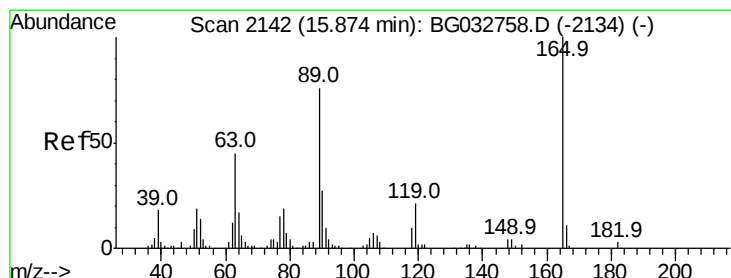
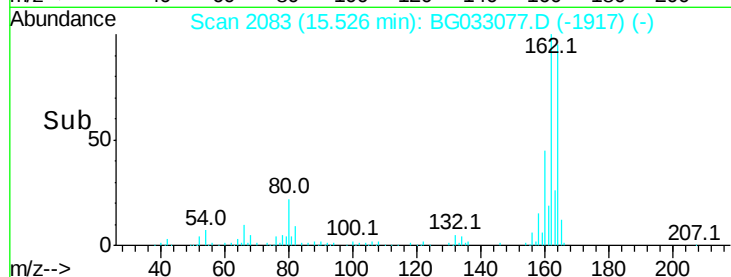
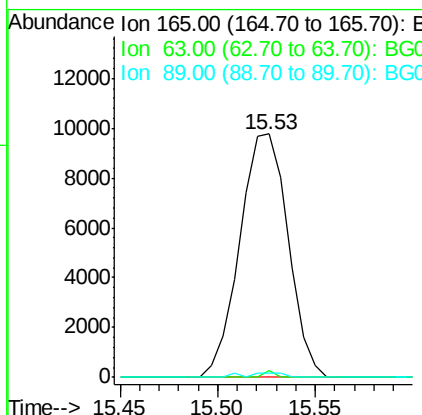
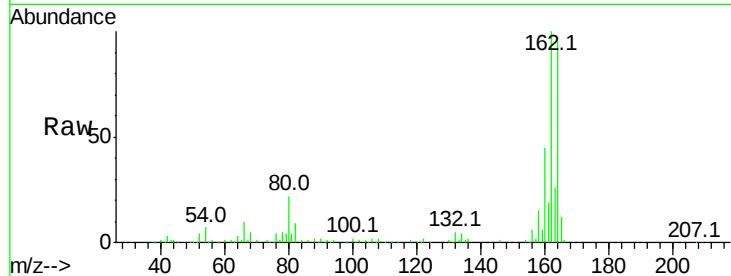




#50  
2,6-Dinitrotoluene  
Concen: 16.457 ng  
RT: 15.53 min Scan# 2083  
Delta R.T. 0.44 min  
Lab File: BG033077.D  
Acq: 9 Mar 2018 18:07

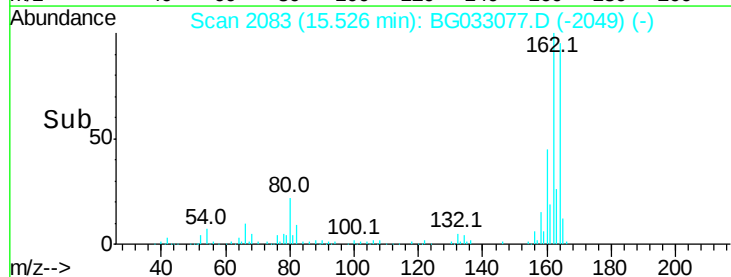
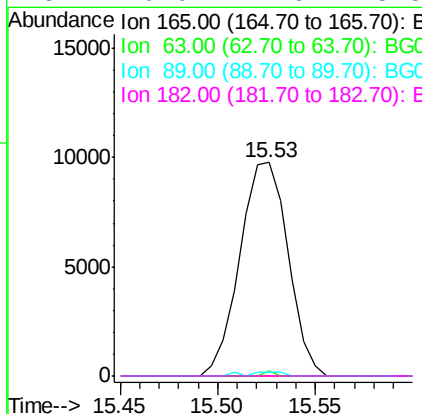
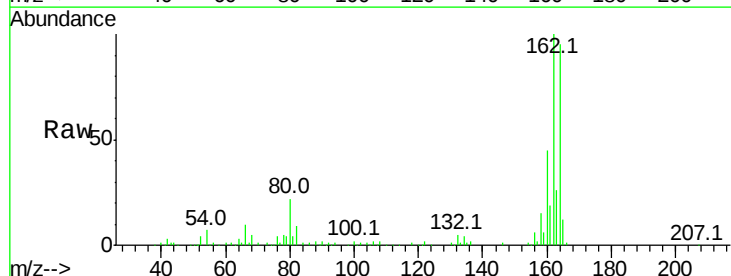
Instrument :  
BNA\_G  
ClientSampleId :

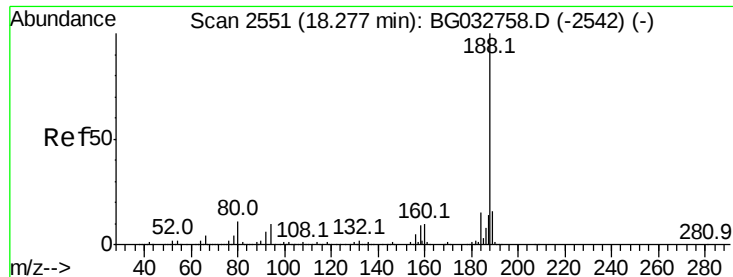
Tot Ion:165 Resp: 16736  
Ion Ratio Lower Upper  
165 100  
63 2.7 52.7 79.1#  
89 1.6 49.2 73.8#



#56  
2,4-Dinitrotoluene  
Concen: 14.655 ng  
RT: 15.53 min Scan# 2083  
Delta R.T. -0.33 min  
Lab File: BG033077.D  
Acq: 9 Mar 2018 18:07

Tgt Ion:165 Resp: 16736  
Ion Ratio Lower Upper  
165 100  
63 2.7 42.0 63.0#  
89 1.6 66.9 100.3#  
182 0.0 2.6 3.8#





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 18.25 min Scan# 2547

Delta R.T. -0.00 min

Lab File: BG033077.D

Acq: 9 Mar 2018 18:07

Instrument :

BNA\_G

ClientSampleId :

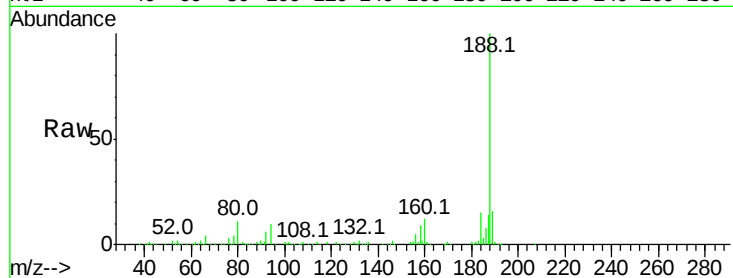
Tot Ion:188 Resp: 296800

Ion Ratio Lower Upper

188 100

94 9.7 6.9 10.3

80 11.5 7.7 11.5



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

250000

200000

150000

100000

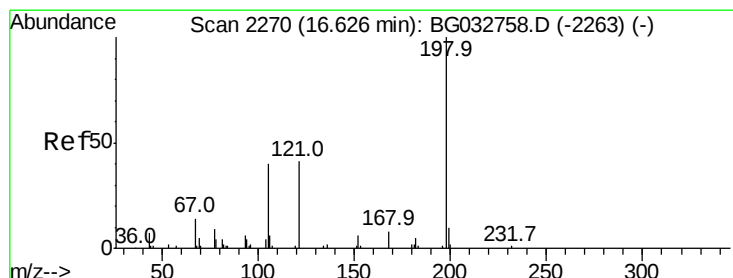
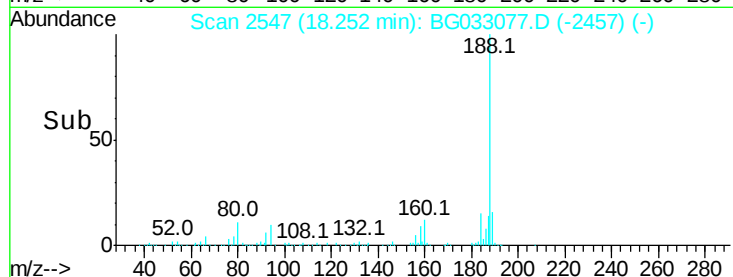
50000

0

18.25

18.30

Time-->



#64

4,6-Dinitro-2-methylphenol

Concen: 5.861 ng

RT: 16.99 min Scan# 2333

Delta R.T. 0.38 min

Lab File: BG033077.D

Acq: 9 Mar 2018 18:07

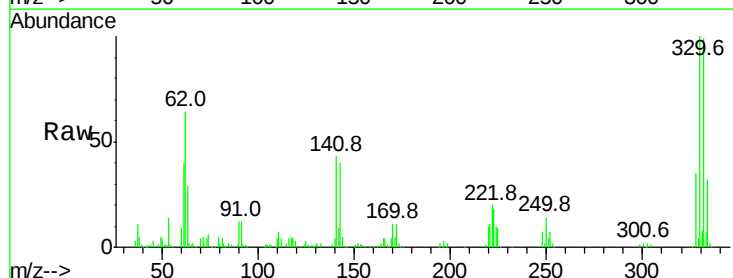
Tgt Ion:198 Resp: 638

Ion Ratio Lower Upper

198 100

51 112.9 30.6 70.6#

105 125.9 23.8 63.8#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BGC

Ion 105.00 (104.70 to 105.70): E

800

600

400

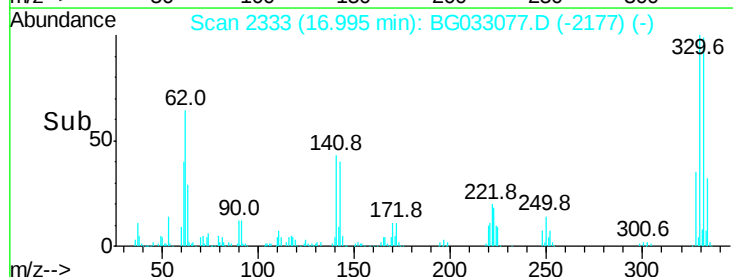
200

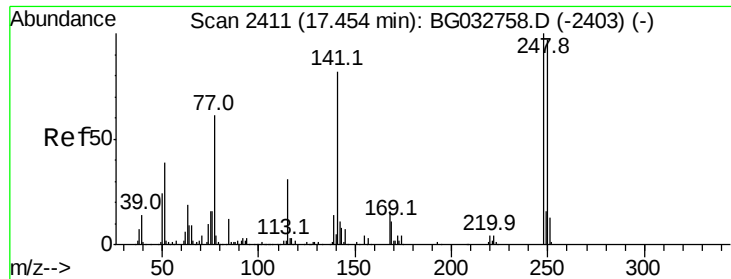
0

16.99

17.00

Time-->

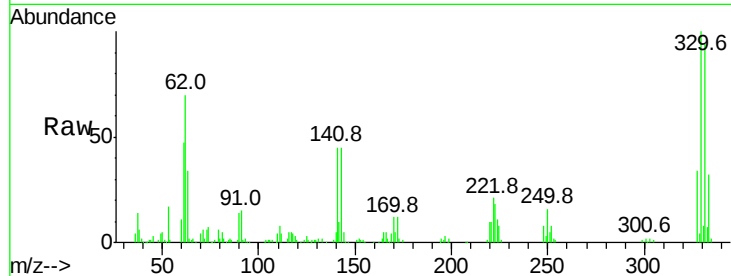




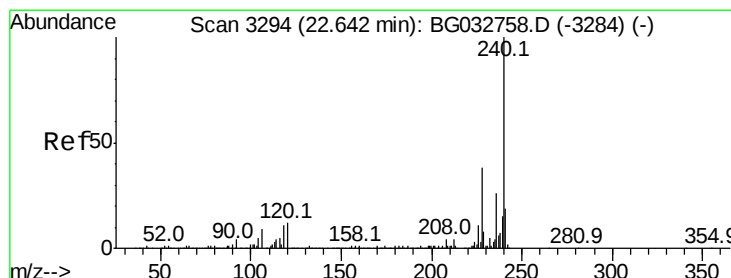
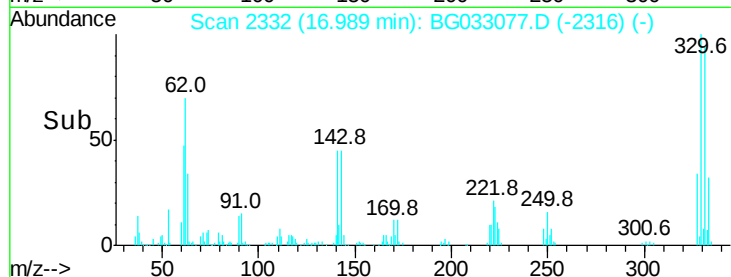
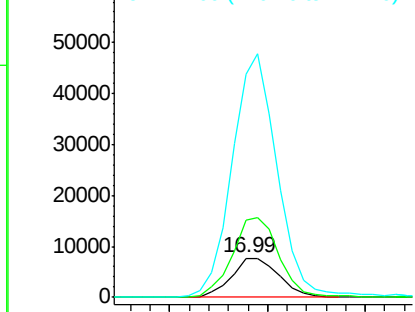
#66  
4-Bromophenyl-phenylether  
Concen: 4.041 ng  
RT: 16.99 min Scan# 2332  
Delta R.T. -0.44 min  
Lab File: BG033077.D  
Acq: 9 Mar 2018 18:07

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:248 Resp: 12681  
Ion Ratio Lower Upper  
248 100  
250 198.2 77.1 115.7#  
141 575.7 50.8 76.2#

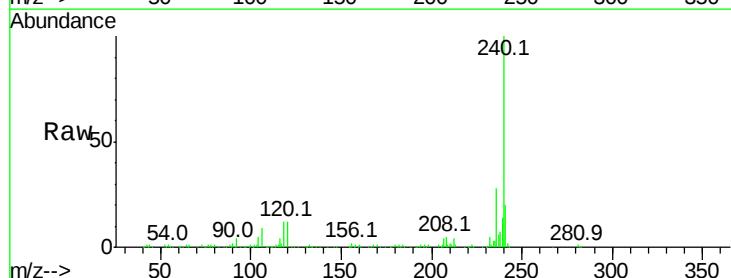


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

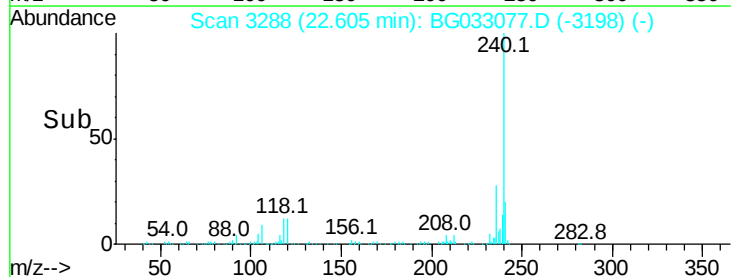
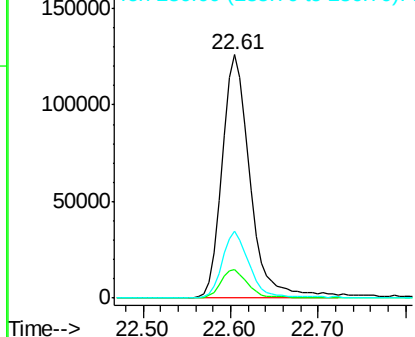


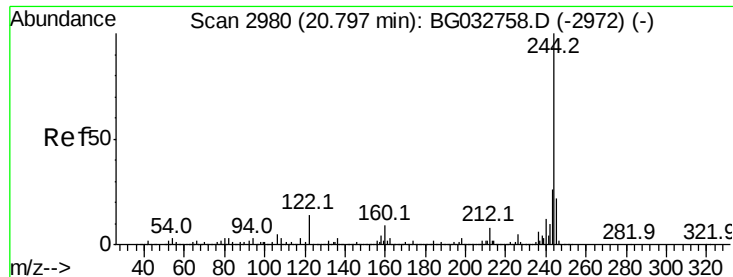
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 22.61 min Scan# 3288  
Delta R.T. -0.00 min  
Lab File: BG033077.D  
Acq: 9 Mar 2018 18:07

Tgt Ion:240 Resp: 275727  
Ion Ratio Lower Upper  
240 100  
120 11.9 6.8 10.2#  
236 27.7 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

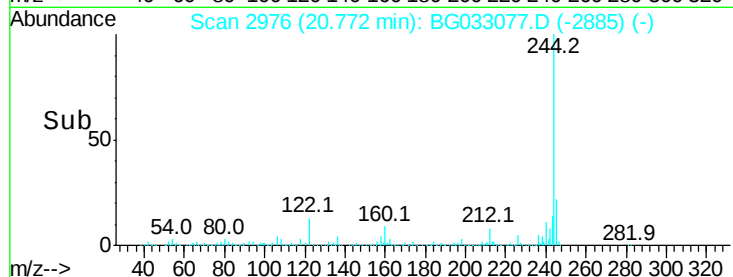
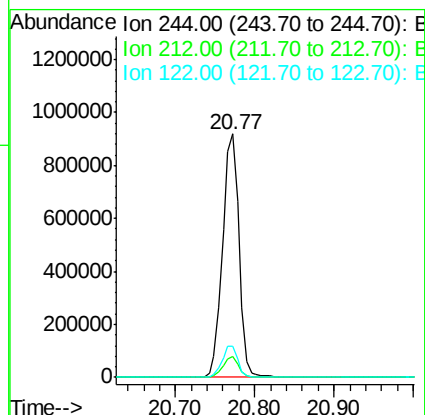
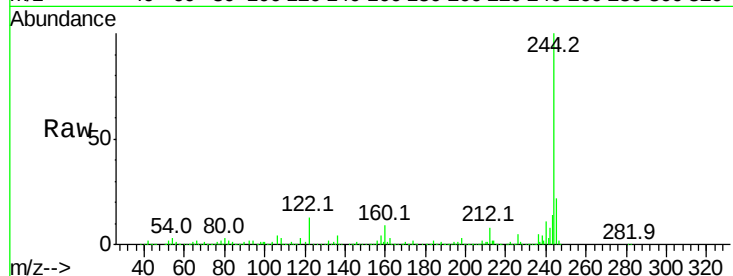




#78  
 Terphenyl-d14  
 Concen: 107.897 ng  
 RT: 20.77 min Scan# 2976  
 Delta R.T. 0.00 min  
 Lab File: BG033077.D  
 Acq: 9 Mar 2018 18:07

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:244 Resp: 1324154  
 Ion Ratio Lower Upper  
 244 100  
 212 8.5 5.8 8.8  
 122 12.7 7.0 10.4#



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 26.41 min Scan# 3935  
 Delta R.T. -0.00 min  
 Lab File: BG033077.D  
 Acq: 9 Mar 2018 18:07

Tgt Ion:264 Resp: 239768  
 Ion Ratio Lower Upper  
 264 100  
 260 23.0 17.4 26.0  
 265 22.2 17.7 26.5

