

Data Path : Z:\HPCHEM1\BNA G\DATA\BG031318\  
 Data File : BG033138.D  
 Acq On : 14 Mar 2018 5:59  
 Operator : SJ/JU  
 Sample : J1893-02  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Mar 14 11:49:29 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

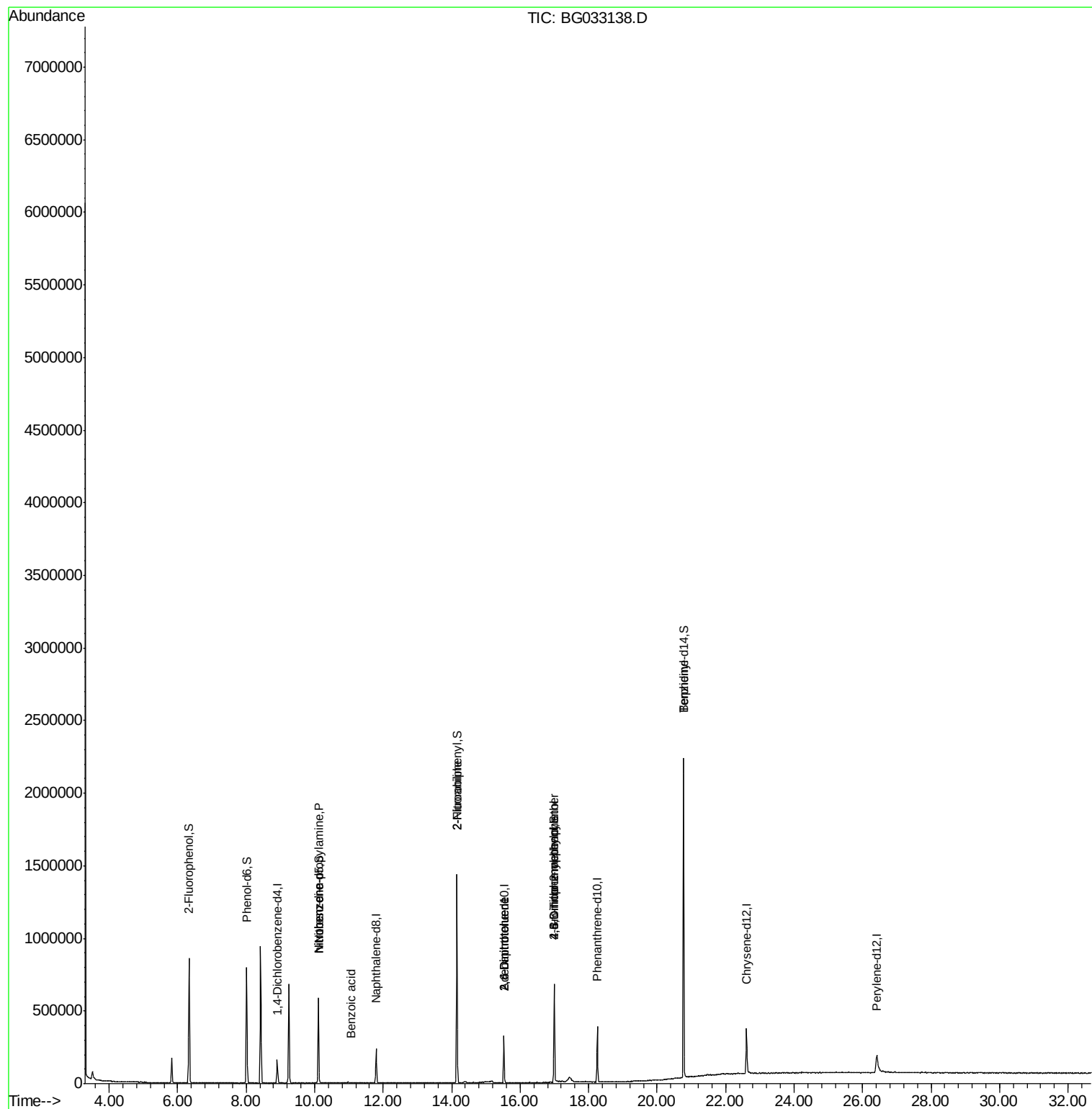
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.91  | 152  | 47947    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 11.80 | 136  | 209929   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 15.53 | 164  | 114088   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 18.25 | 188  | 244278   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 22.61 | 240  | 232093   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 26.41 | 264  | 196202   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.33  | 112  | 386603   | 129.00 | ng    | 0.00     |
| 7) Phenol-d6                   | 8.01  | 99   | 468940   | 112.26 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 10.11 | 82   | 354638   | 113.47 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 17.00 | 330  | 127317   | 106.13 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 14.15 | 172  | 735566   | 92.99  | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.77 | 244  | 1038578  | 100.54 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 10.11 | 70   | 47999    | 16.276 | ng    | # 86     |
| 24) Nitrobenzene               | 10.10 | 77   | 1171     | 6.684  | ng    | # 48     |
| 32) Benzoic acid               | 11.07 | 122  | 262      | 5.975  | ng    | # 32     |
| 47) 2-Nitroaniline             | 14.15 | 65   | 1328     | 10.398 | ng    | # 1      |
| 50) 2,6-Dinitrotoluene         | 15.52 | 165  | 14531    | 16.281 | ng    | # 20     |
| 56) 2,4-Dinitrotoluene         | 15.52 | 165  | 14531    | 14.478 | ng    | # 18     |
| 64) 4,6-Dinitro-2-methylphenol | 17.00 | 198  | 196      | 5.290  | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 17.00 | 248  | 8025     | 3.107  | ng    | # 1      |
| 76) Benzidine                  | 20.77 | 184  | 17978    | 2.272  | ng    | # 93     |

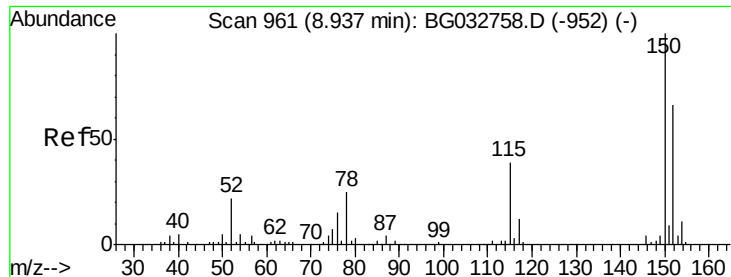
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA G\DATA\BG031318\  
Data File : BG033138.D  
Acq On : 14 Mar 2018 5:59  
Operator : SJ/JU  
Sample : J1893-02  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Mar 14 11:49:29 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



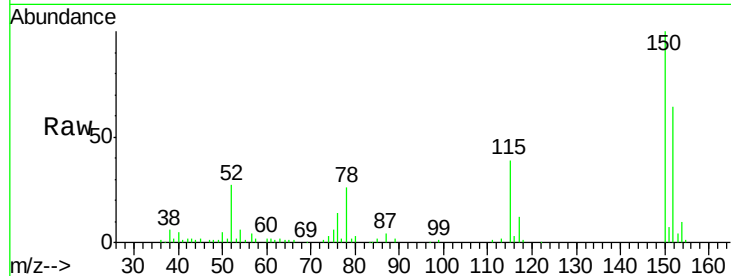


#1

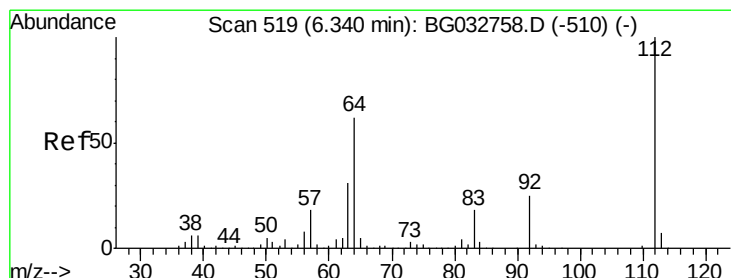
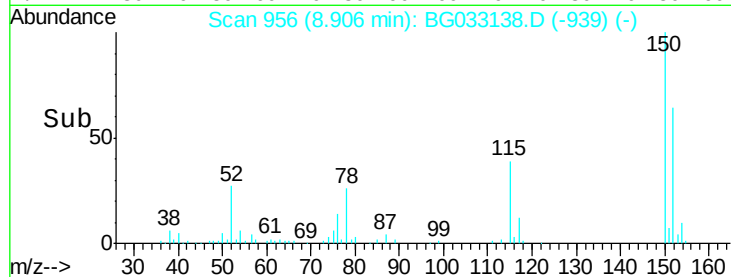
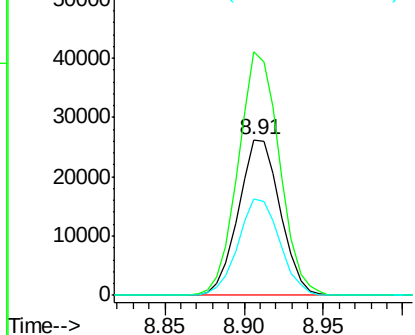
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.91 min Scan# 956  
Delta R.T. -0.00 min  
Lab File: BG033138.D  
Acq: 14 Mar 2018 5:59

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 47947  
Ion Ratio Lower Upper  
152 100  
150 156.4 126.6 189.8  
115 61.7 53.0 79.4



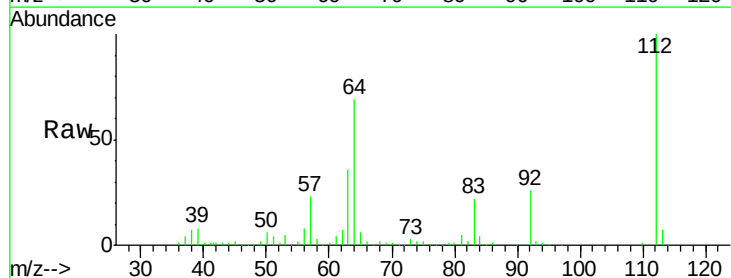
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



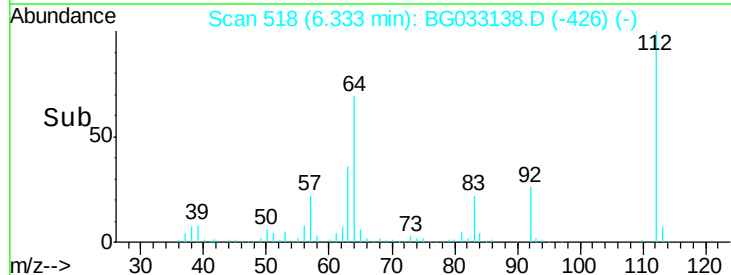
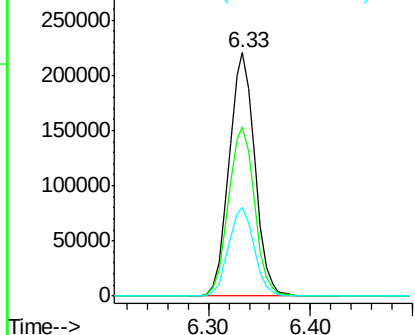
#5

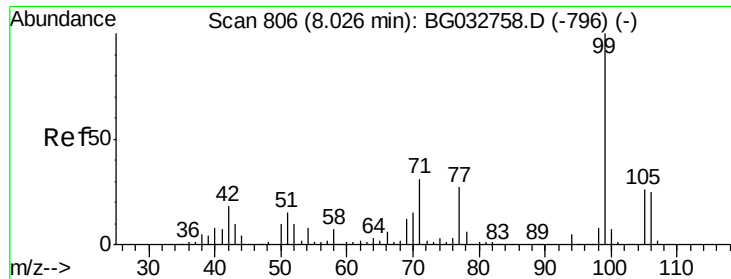
2-Fluorophenol  
Concen: 128.998 ng  
RT: 6.33 min Scan# 518  
Delta R.T. 0.01 min  
Lab File: BG033138.D  
Acq: 14 Mar 2018 5:59

Tgt Ion:112 Resp: 386603  
Ion Ratio Lower Upper  
112 100  
64 69.3 56.3 84.5  
63 36.5 30.1 45.1



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BG0  
Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 112.258 ng

RT: 8.01 min Scan# 804

Delta R.T. 0.01 min

Lab File: BG033138.D

Acq: 14 Mar 2018 5:59

Instrument :

BNA\_G

ClientSampleId :

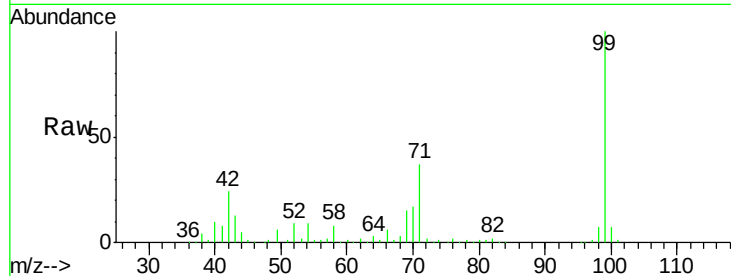
Tot Ion: 99 Resp: 468940

Ion Ratio Lower Upper

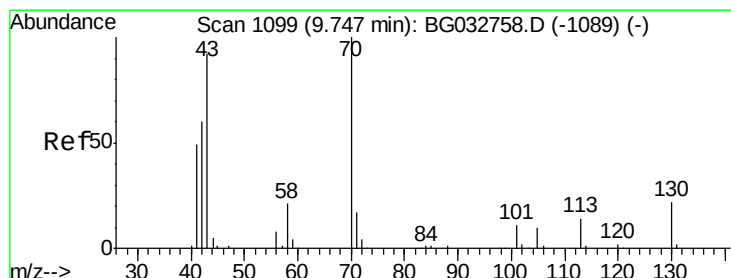
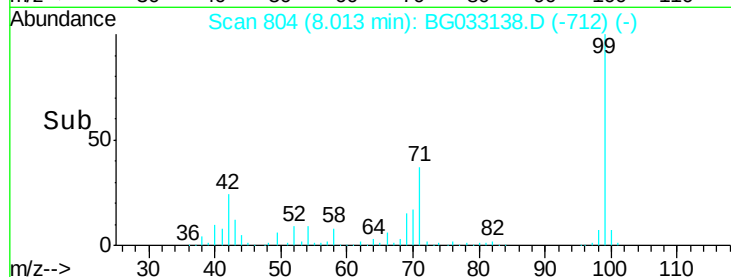
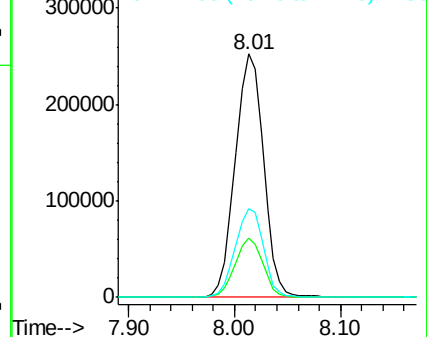
99 100

42 24.3 14.1 21.1#

71 36.6 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: 16.276 ng

RT: 10.11 min Scan# 1161

Delta R.T. 0.39 min

Lab File: BG033138.D

Acq: 14 Mar 2018 5:59

Tgt Ion: 70 Resp: 47999

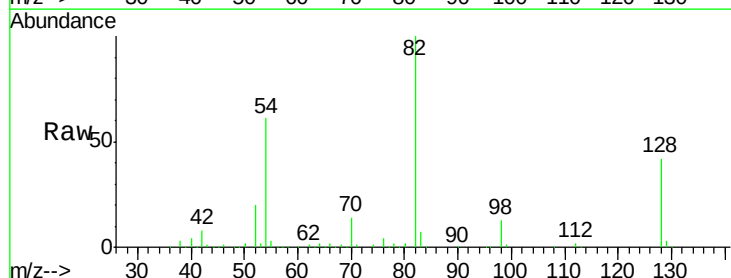
Ion Ratio Lower Upper

70 100

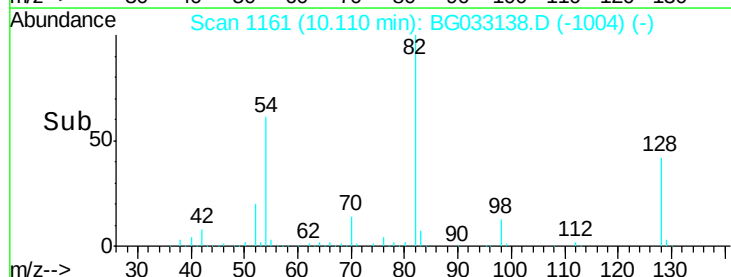
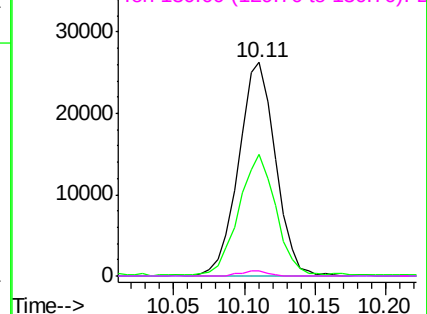
42 56.7 49.1 73.7

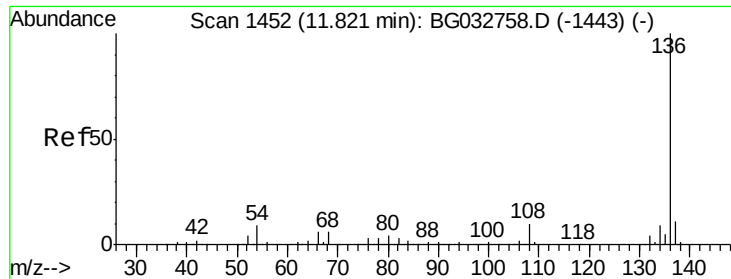
101 0.0 8.5 12.7#

130 2.3 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

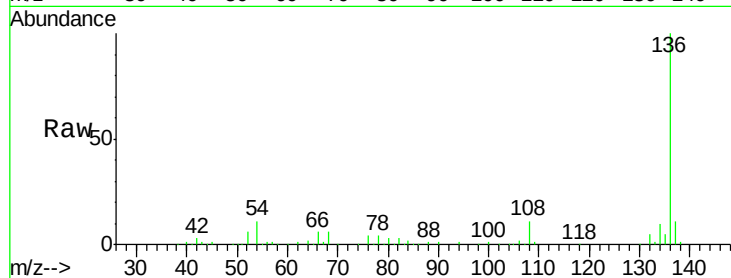




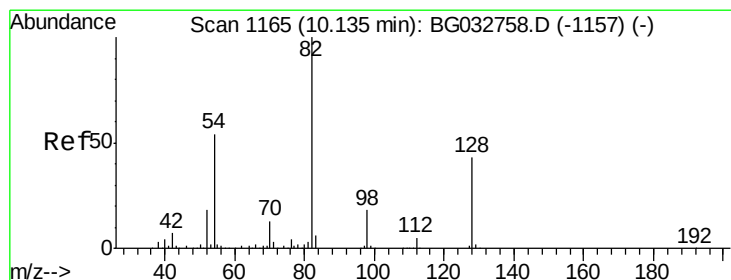
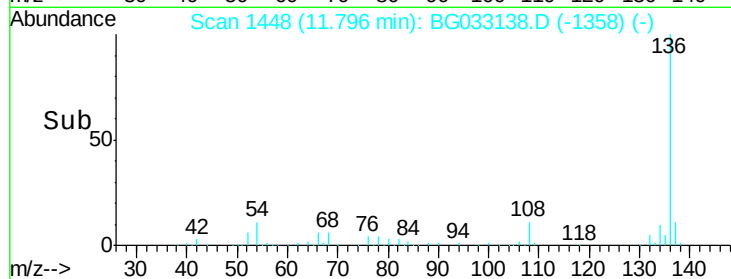
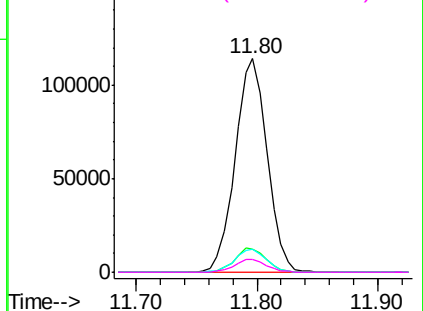
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.80 min Scan# 1448  
Delta R.T. -0.00 min  
Lab File: BG033138.D  
Acq: 14 Mar 2018 5:59

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:136 | Resp: | 209929    |
| Ion Ratio   | Lower | Upper     |
| 136         | 100   |           |
| 137         | 10.9  | 9.2 13.8  |
| 54          | 10.8  | 10.3 15.5 |
| 68          | 5.9   | 4.5 6.7   |

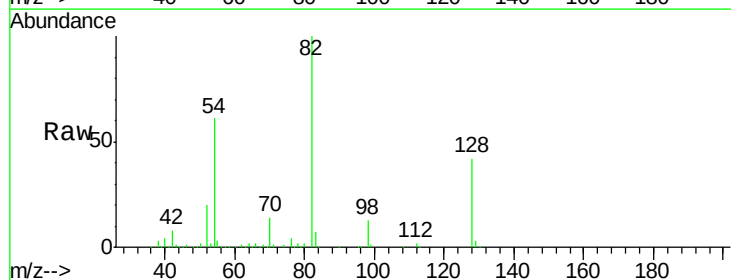


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

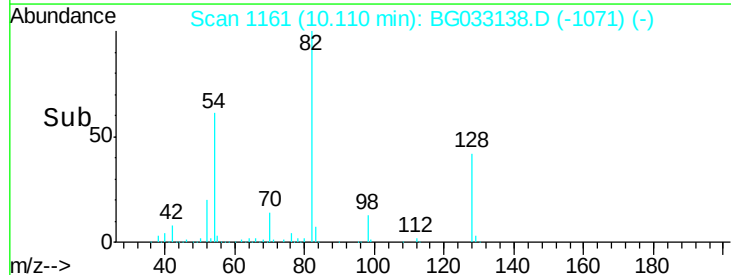
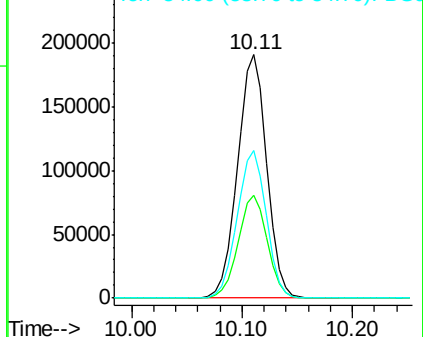


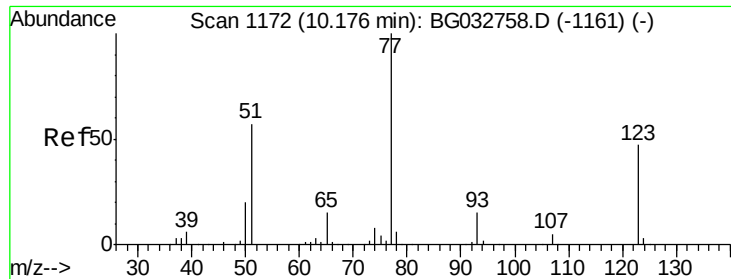
#23  
Nitrobenzene-d5  
Concen: 113.472 ng  
RT: 10.11 min Scan# 1161  
Delta R.T. -0.00 min  
Lab File: BG033138.D  
Acq: 14 Mar 2018 5:59

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 354638    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 42.3  | 29.7 44.5 |
| 54          | 60.8  | 43.1 64.7 |



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

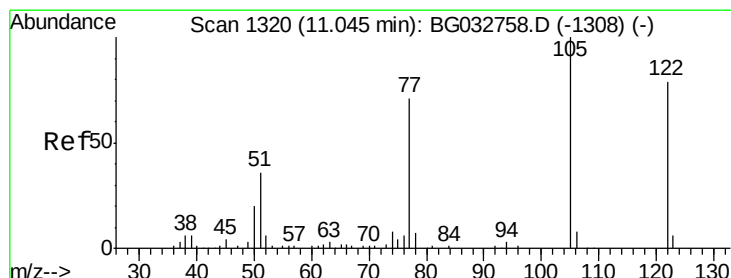
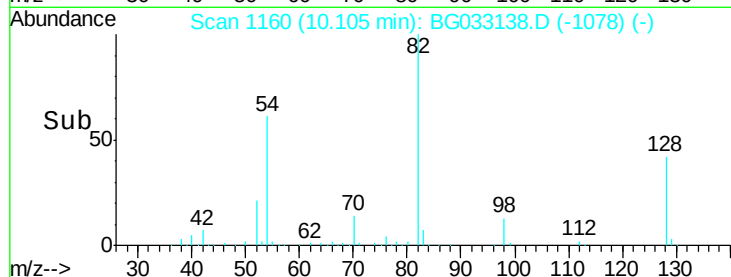
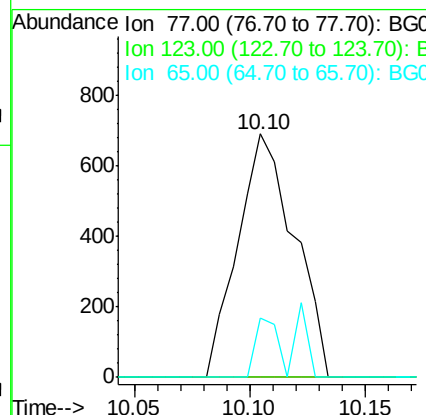
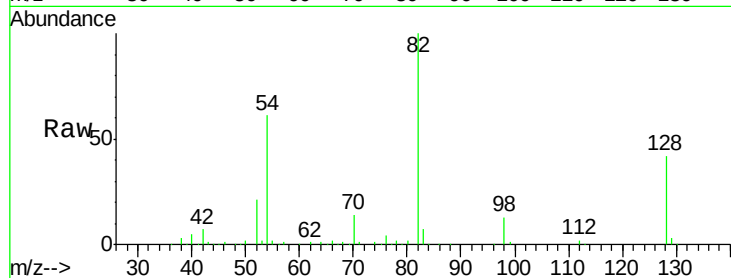




#24  
 Nitrobenzene  
 Concen: 6.684 ng  
 RT: 10.10 min Scan# 1160  
 Delta R.T. -0.05 min  
 Lab File: BG033138.D  
 Acq: 14 Mar 2018 5:59

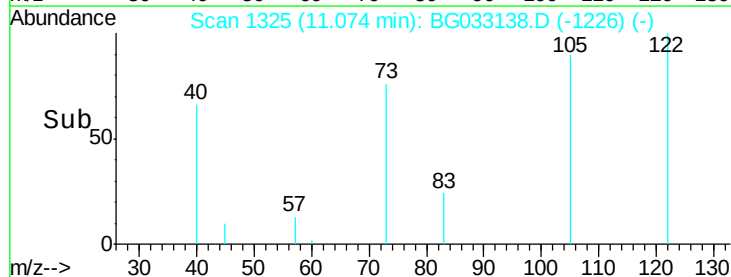
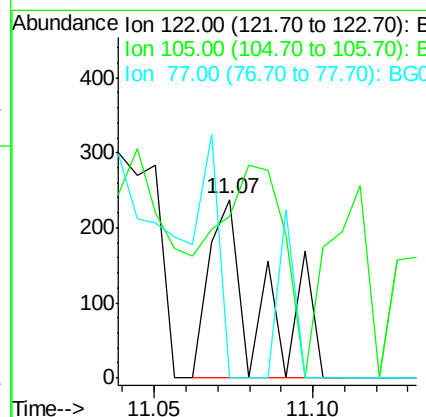
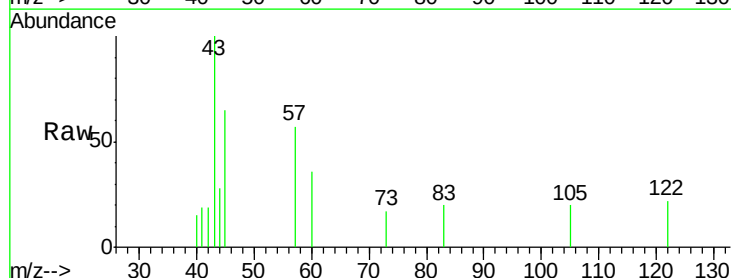
Instrument :  
 BNA\_G  
 ClientSampleId :

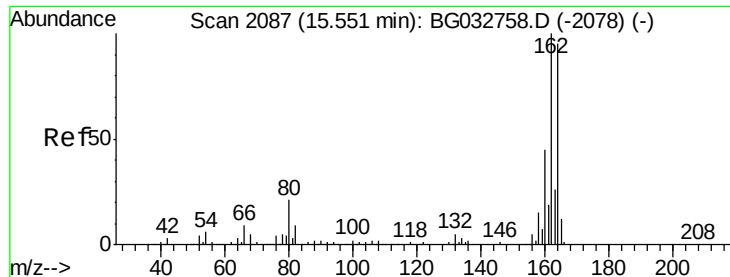
Tot Ion: 77 Resp: 1171  
 Ion Ratio Lower Upper  
 77 100  
 123 0.0 33.0 49.6#  
 65 24.1 13.0 19.6#



#32  
 Benzoic acid  
 Concen: 5.975 ng  
 RT: 11.07 min Scan# 1325  
 Delta R.T. 0.05 min  
 Lab File: BG033138.D  
 Acq: 14 Mar 2018 5:59

Tgt Ion: 122 Resp: 262  
 Ion Ratio Lower Upper  
 122 100  
 105 90.3 123.5 163.5#  
 77 0.0 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: BG033138.D

Acq: 14 Mar 2018 5:59

Instrument :

BNA\_G

ClientSampleId :

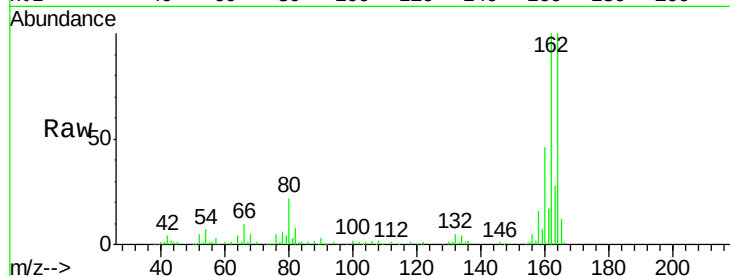
Tot Ion:164 Resp: 114088

Ion Ratio Lower Upper

164 100

162 99.7 78.8 118.2

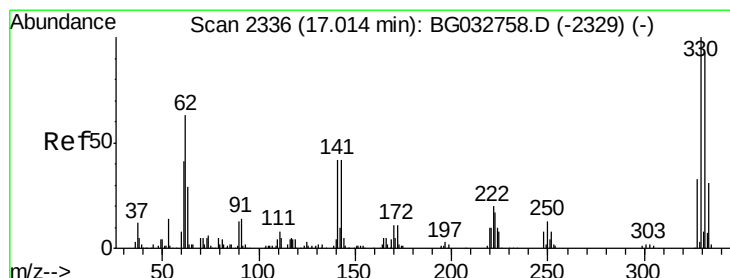
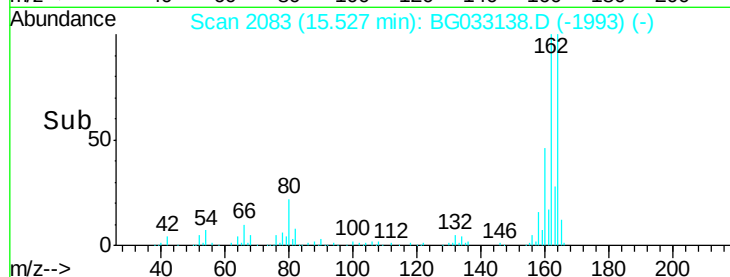
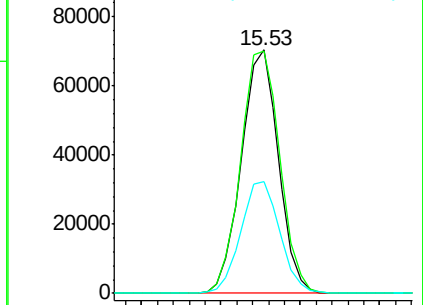
160 45.7 35.4 53.0



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: 106.133 ng

RT: 17.00 min Scan# 2333

Delta R.T. -0.00 min

Lab File: BG033138.D

Acq: 14 Mar 2018 5:59

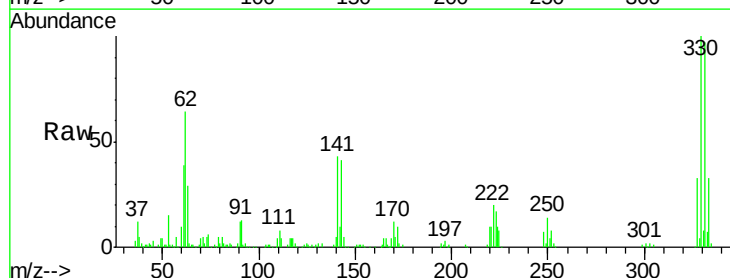
Tgt Ion:330 Resp: 127317

Ion Ratio Lower Upper

330 100

332 96.0 77.0 115.6

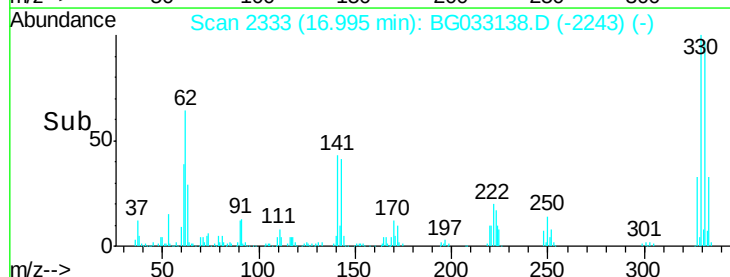
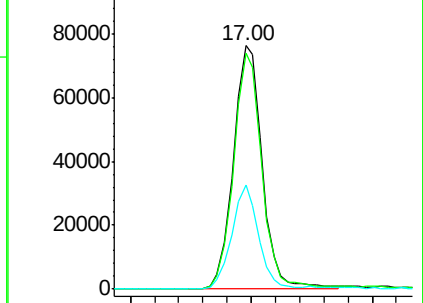
141 39.7 25.2 37.8#

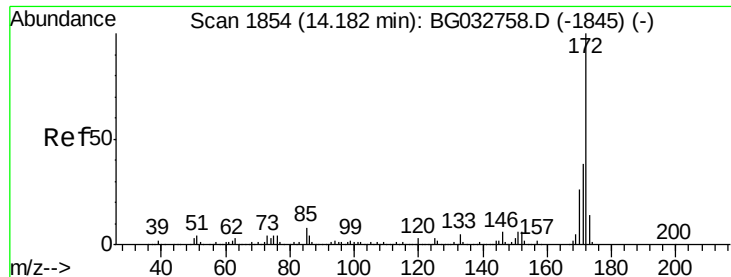


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

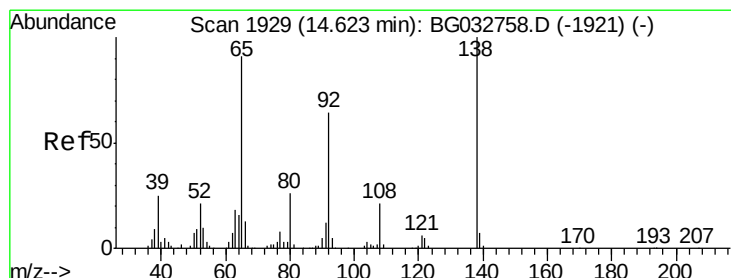
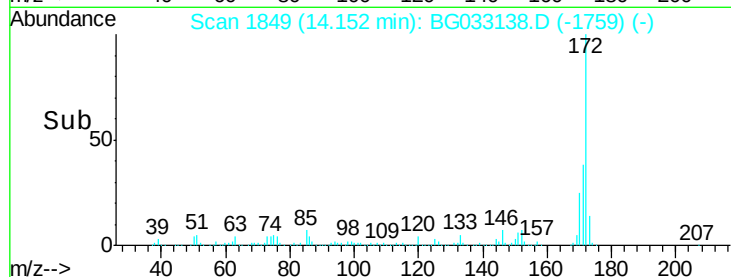
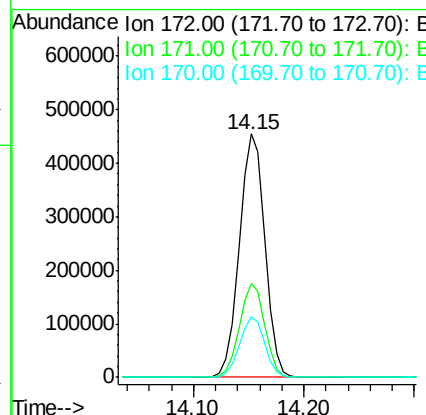
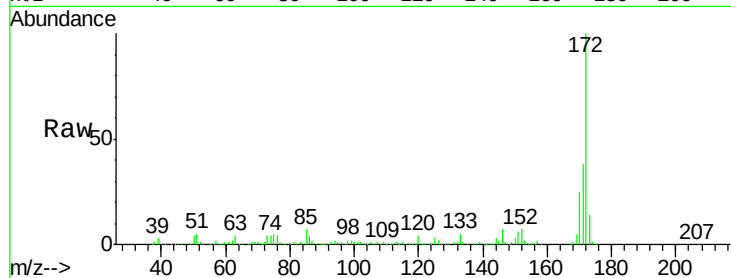




#44  
2-Fluorobiphenyl  
Concen: 92.987 ng  
RT: 14.15 min Scan# 1849  
Delta R.T. -0.00 min  
Lab File: BG033138.D  
Acq: 14 Mar 2018 5:59

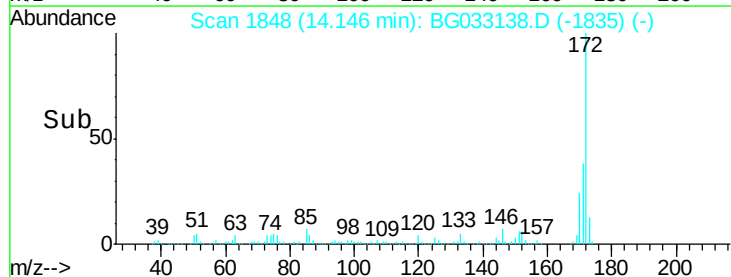
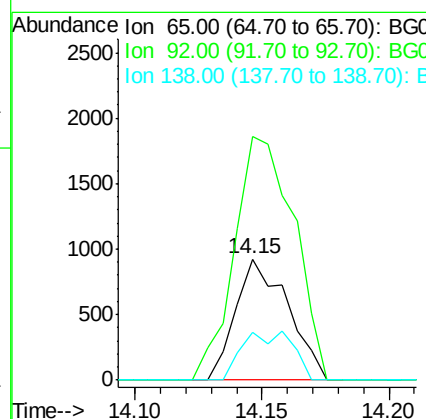
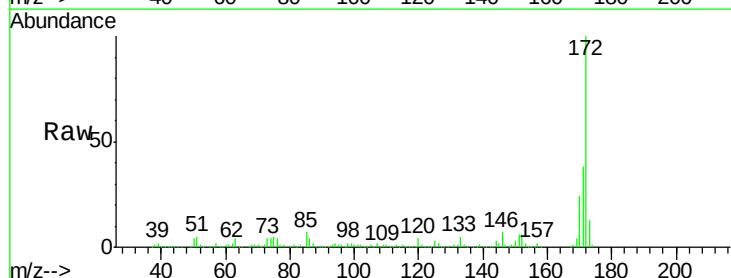
Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.5  | 30.0  | 45.0  |
| 170     | 24.9  | 19.5  | 29.3  |

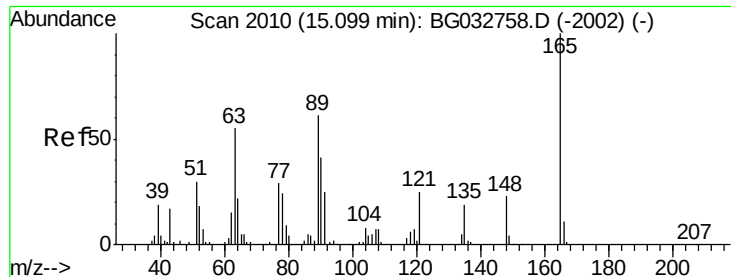


#47  
2-Nitroaniline  
Concen: 10.398 ng  
RT: 14.15 min Scan# 1848  
Delta R.T. -0.46 min  
Lab File: BG033138.D  
Acq: 14 Mar 2018 5:59

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 65      | 100   |       |        |
| 92      | 201.0 | 54.6  | 82.0#  |
| 138     | 39.5  | 72.9  | 109.3# |



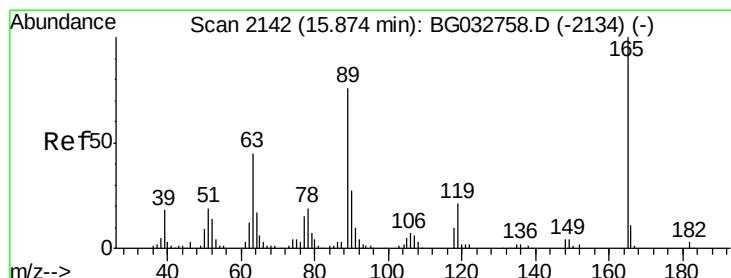
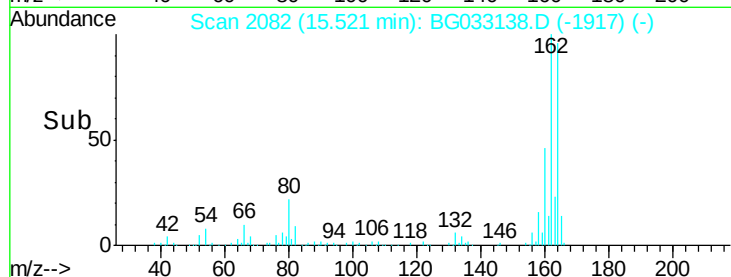
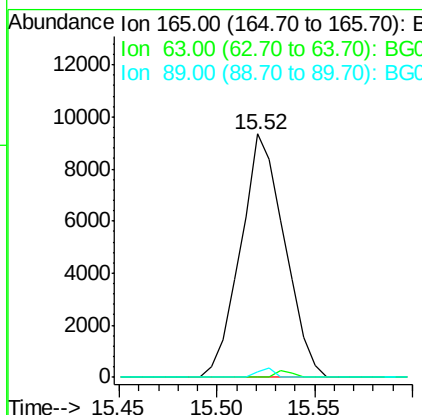
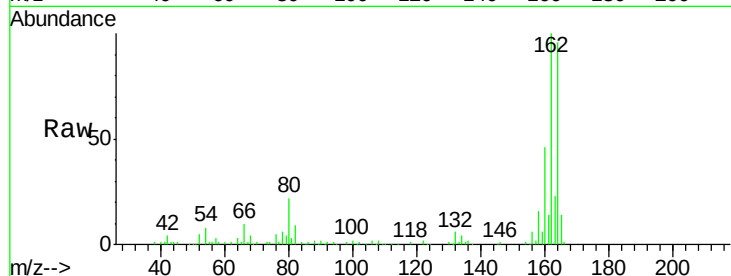




#50  
 2,6-Dinitrotoluene  
 Concen: 16.281 ng  
 RT: 15.52 min Scan# 2082  
 Delta R.T. 0.44 min  
 Lab File: BG033138.D  
 Acq: 14 Mar 2018 5:59

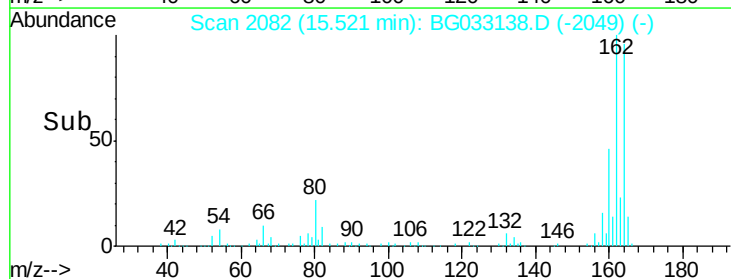
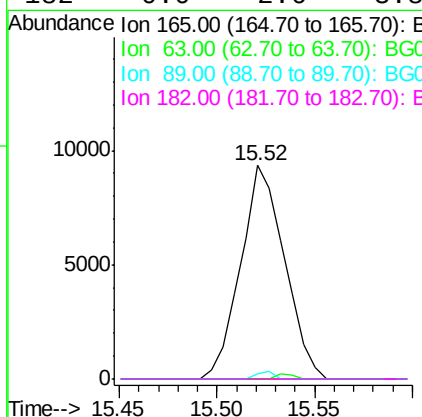
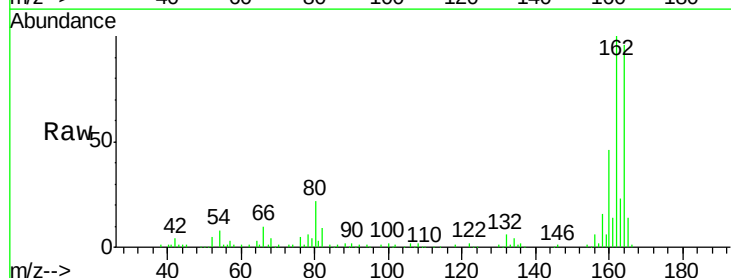
Instrument :  
 BNA\_G  
 ClientSampleId :

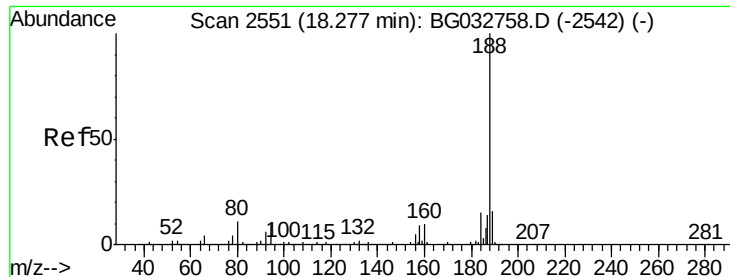
Tot Ion:165 Resp: 14531  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 52.7 79.1#  
 89 2.2 49.2 73.8#



#56  
 2,4-Dinitrotoluene  
 Concen: 14.478 ng  
 RT: 15.52 min Scan# 2082  
 Delta R.T. -0.34 min  
 Lab File: BG033138.D  
 Acq: 14 Mar 2018 5:59

Tgt Ion:165 Resp: 14531  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 42.0 63.0#  
 89 2.2 66.9 100.3#  
 182 0.0 2.6 3.8#

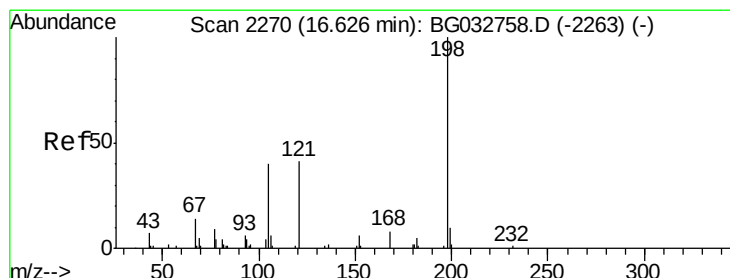
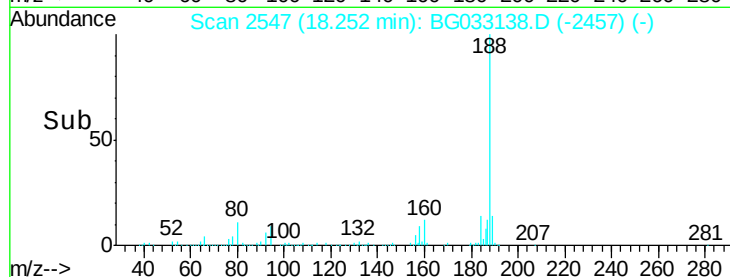
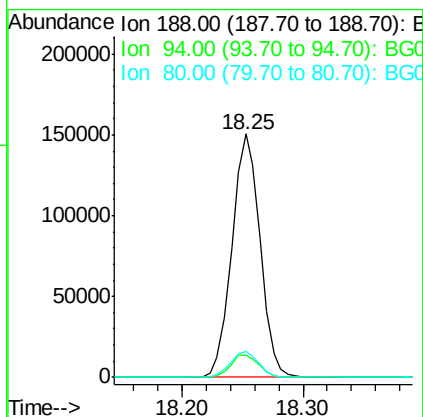
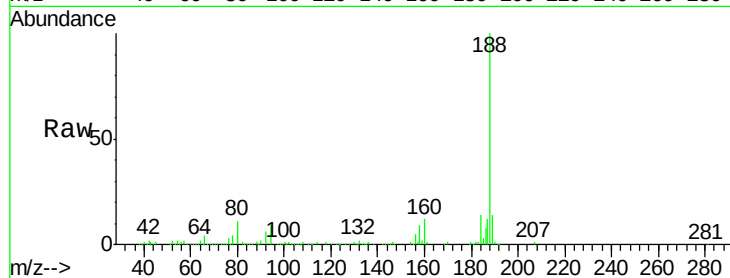




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 18.25 min Scan# 2547  
Delta R.T. -0.00 min  
Lab File: BG033138.D  
Acq: 14 Mar 2018 5:59

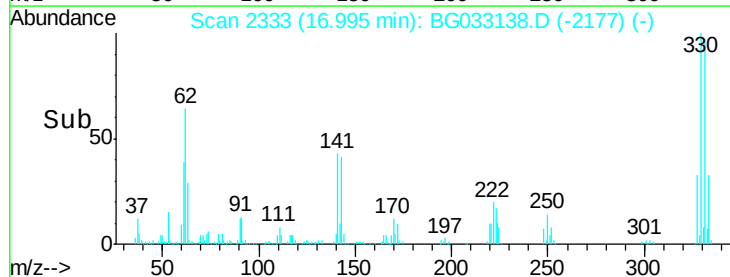
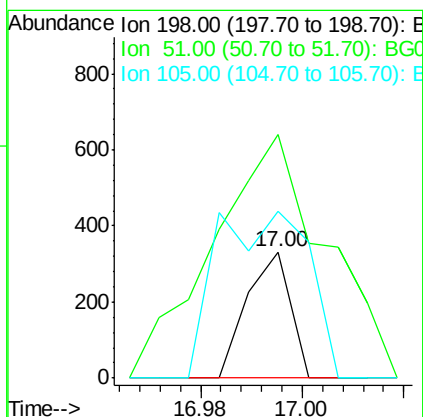
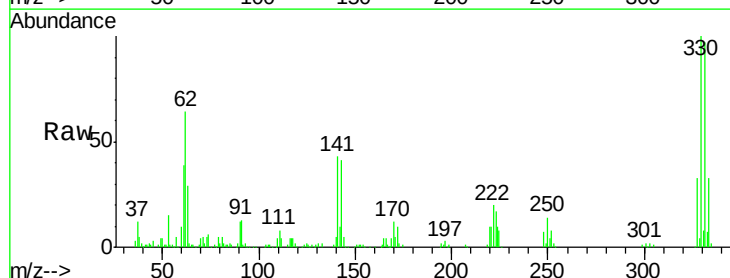
Instrument :  
BNA\_G  
ClientSampleId :

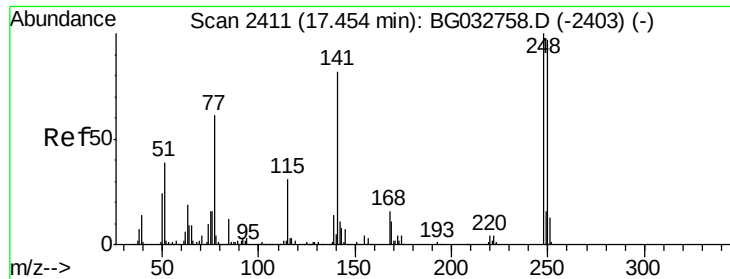
Tot Ion:188 Resp: 244278  
Ion Ratio Lower Upper  
188 100  
94 9.3 6.9 10.3  
80 10.6 7.7 11.5



#64  
4,6-Dinitro-2-methylphenol  
Concen: 5.290 ng  
RT: 17.00 min Scan# 2333  
Delta R.T. 0.38 min  
Lab File: BG033138.D  
Acq: 14 Mar 2018 5:59

Tgt Ion:198 Resp: 196  
Ion Ratio Lower Upper  
198 100  
51 192.8 30.6 70.6#  
105 132.5 23.8 63.8#

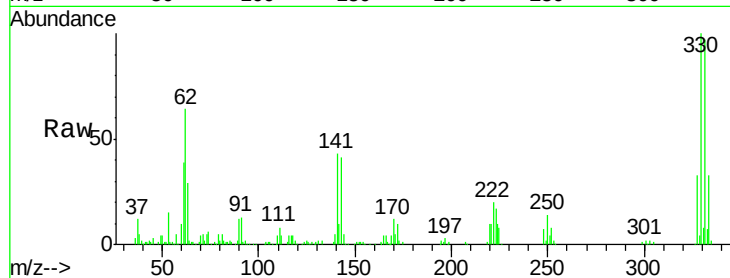




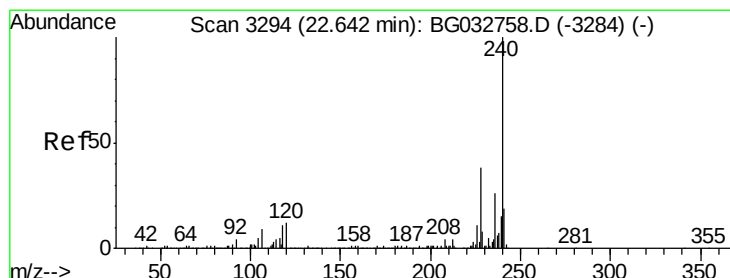
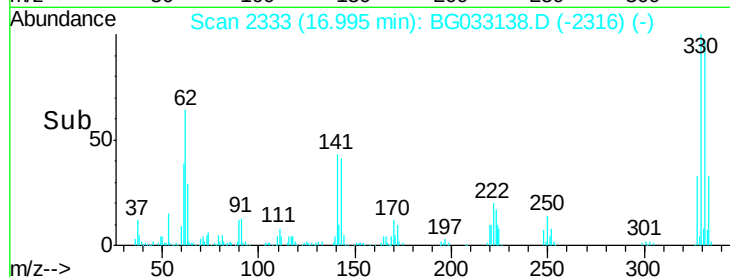
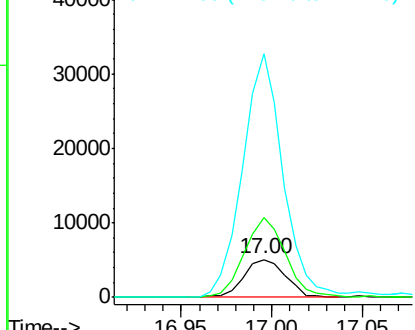
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.107 ng  
 RT: 17.00 min Scan# 2333  
 Delta R.T. -0.43 min  
 Lab File: BG033138.D  
 Acq: 14 Mar 2018 5:59

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:248 Resp: 8025  
 Ion Ratio Lower Upper  
 248 100  
 250 212.4 77.1 115.7#  
 141 648.3 50.8 76.2#

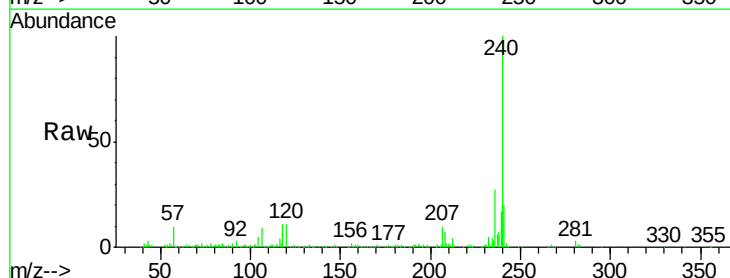


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

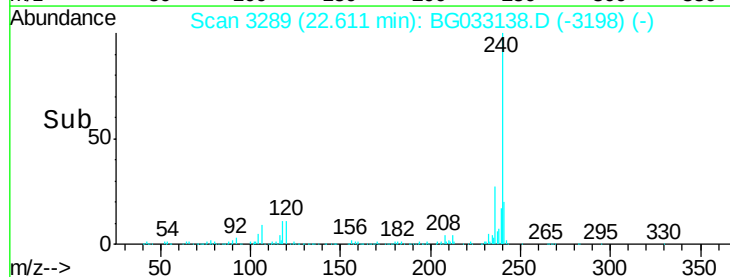
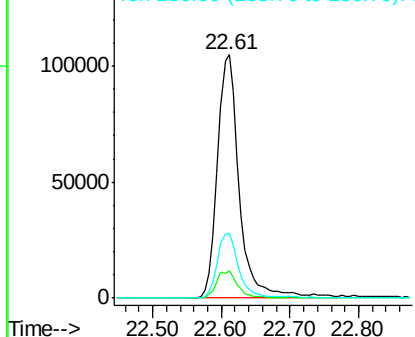


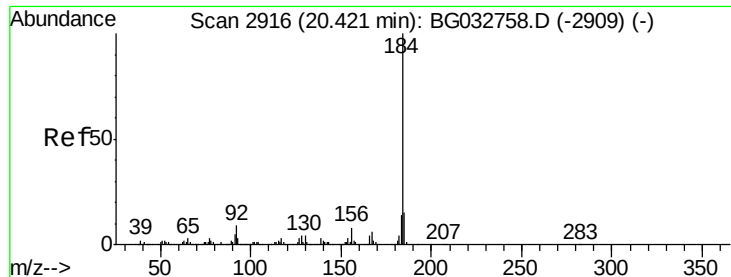
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 22.61 min Scan# 3289  
 Delta R.T. 0.00 min  
 Lab File: BG033138.D  
 Acq: 14 Mar 2018 5:59

Tgt Ion:240 Resp: 232093  
 Ion Ratio Lower Upper  
 240 100  
 120 11.0 6.8 10.2#  
 236 26.6 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: 2.272 ng

RT: 20.77 min Scan# 2976

Delta R.T. 0.37 min

Lab File: BG033138.D

Acq: 14 Mar 2018 5:59

Instrument :

BNA\_G

ClientSampleId :

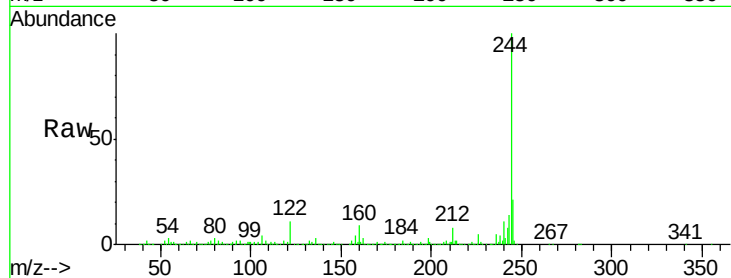
Tot Ion:184 Resp: 17978

Ion Ratio Lower Upper

184 100

185 16.4 11.1 16.7

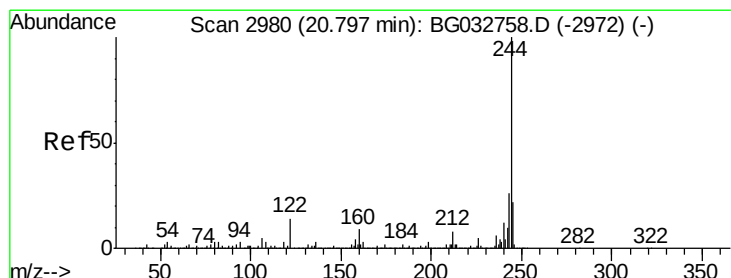
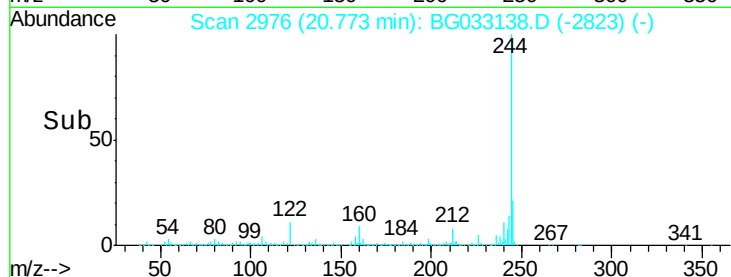
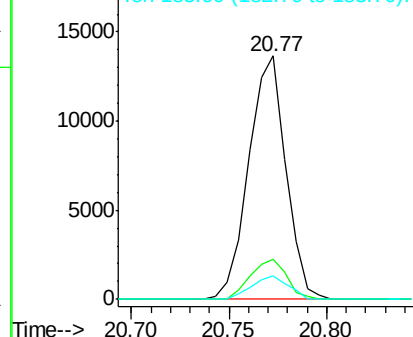
183 9.9 10.6 16.0#



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: 100.537 ng

RT: 20.77 min Scan# 2976

Delta R.T. 0.00 min

Lab File: BG033138.D

Acq: 14 Mar 2018 5:59

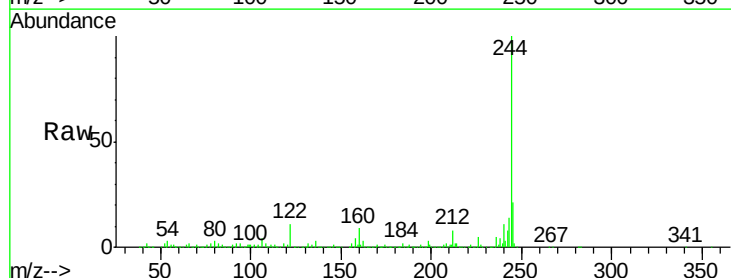
Tgt Ion:244 Resp: 1038578

Ion Ratio Lower Upper

244 100

212 8.0 5.8 8.8

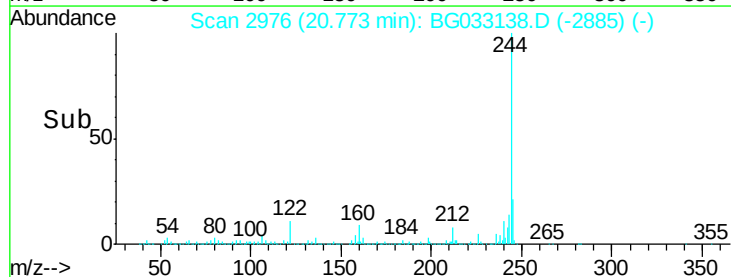
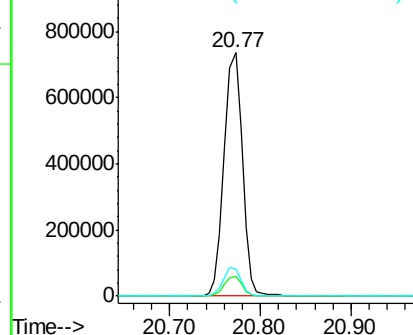
122 11.4 7.0 10.4#

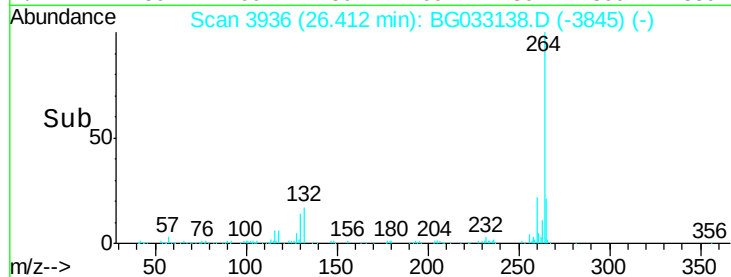
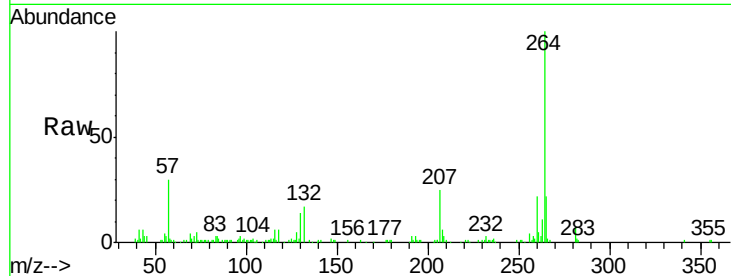
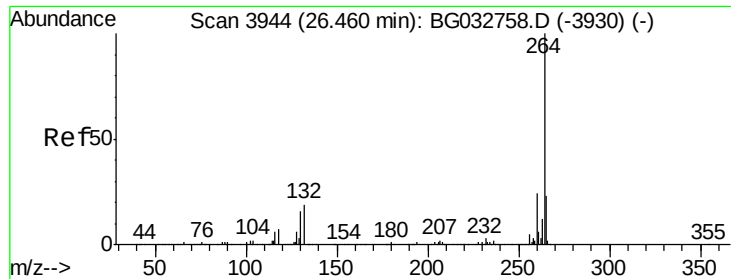


Abundance Ion 244.00 (243.70 to 244.70): E

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: BG033138.D

Acq: 14 Mar 2018 5:59

Instrument :

BNA\_G

ClientSampleId :

Tot Ion:264 Resp: 196202

Ion Ratio Lower Upper

264 100

260 22.3 17.4 26.0

265 21.9 17.7 26.5

