

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA G\DATA\BG030218\  
 Data File : BG032965.D  
 Acq On : 3 Mar 2018 4:13  
 Operator : SJ/JU  
 Sample : J1756-03  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Mar 03 05:44:56 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 01 17:38:52 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.91  | 152  | 60182    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 11.80 | 136  | 268499   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 15.53 | 164  | 150097   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 18.26 | 188  | 340175   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 22.61 | 240  | 315147   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 26.43 | 264  | 308726   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 6.33  | 112  | 540336   | 143.64 | ng    | 0.00     |
| 7) Phenol-d6                | 8.01  | 99   | 657808   | 125.46 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 10.11 | 82   | 468109   | 116.79 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 17.00 | 330  | 233716   | 148.09 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 14.16 | 172  | 973050   | 93.50  | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.78 | 244  | 1463991  | 104.37 | ng    | 0.00     |

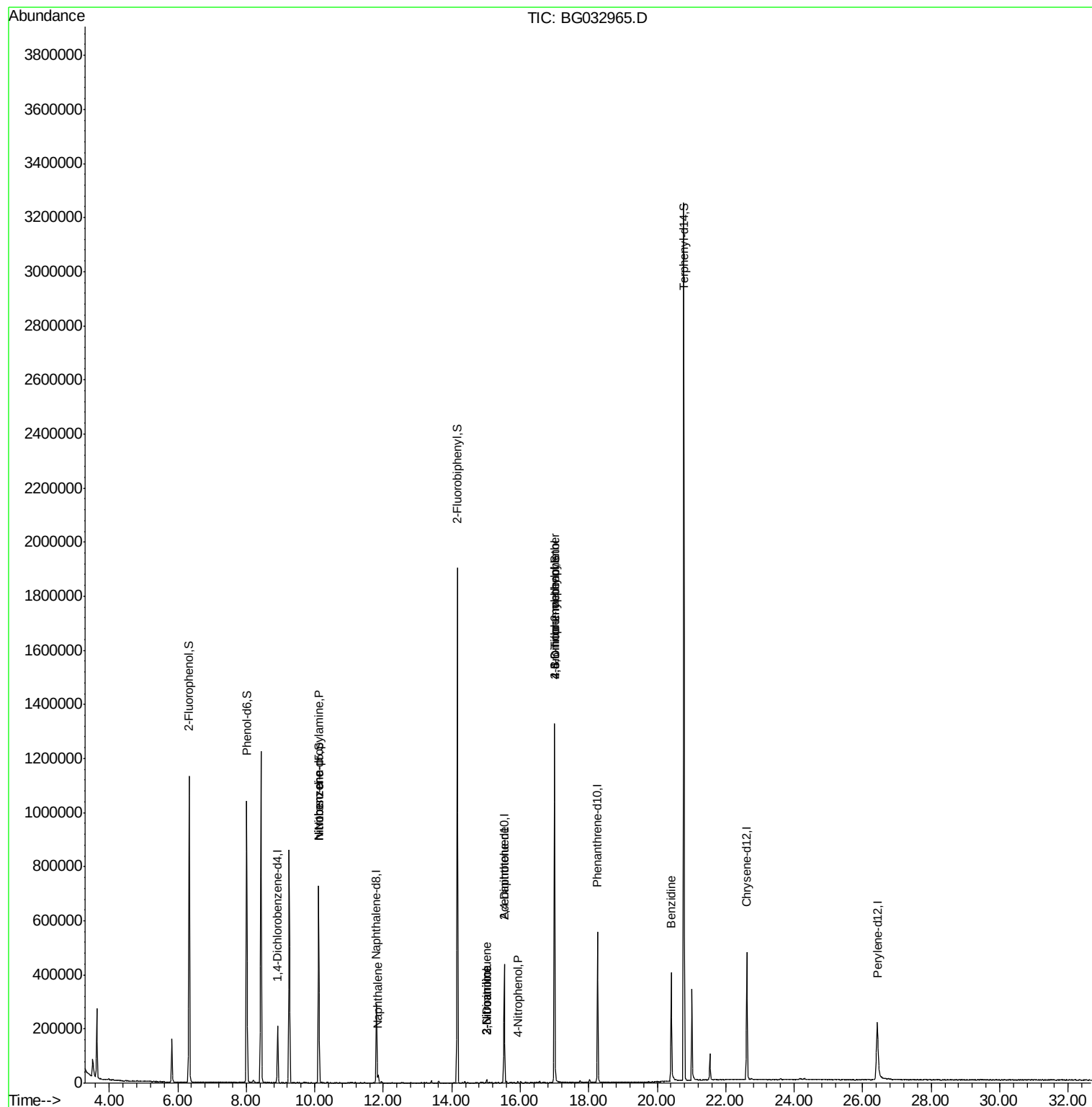
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 10.12 | 70   | 59691    | 16.126 | ng    | # 83   |
| 24) Nitrobenzene               | 10.12 | 77   | 1486     | 6.681  | ng    | # 43   |
| 31) Naphthalene                | 11.85 | 128  | 30223    | 2.154  | ng    | # 97   |
| 47) 2-Nitroaniline             | 15.01 | 65   | 144      | 9.882  | ng    | # 9    |
| 50) 2,6-Dinitrotoluene         | 15.02 | 165  | 2051     | 9.690  | ng    | # 18   |
| 52) 3-Nitroaniline             | 15.02 | 138  | 58       | 7.562  | ng    | # 1    |
| 55) 4-Nitrophenol              | 15.93 | 139  | 1186     | 7.599  | ng    | # 1    |
| 56) 2,4-Dinitrotoluene         | 15.53 | 165  | 18817    | 14.361 | ng    | # 18   |
| 64) 4,6-Dinitro-2-methylphenol | 17.00 | 198  | 619      | 5.722  | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 17.00 | 248  | 17705    | 4.922  | ng    | # 1    |
| 76) Benzidine                  | 20.41 | 184  | 269188   | 25.059 | ng    | # 98   |

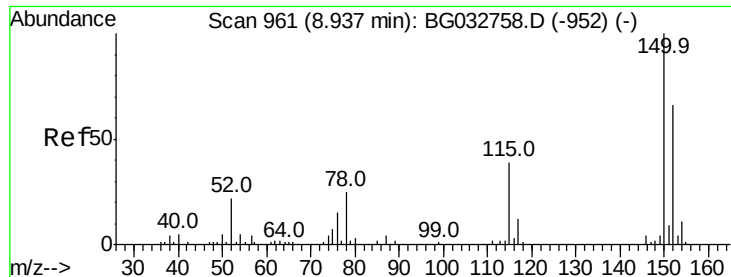
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA G\DATA\BG030218\  
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Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Mar 03 05:44:56 2018  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022118.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Mar 01 17:38:52 2018  
Response via : Initial Calibration



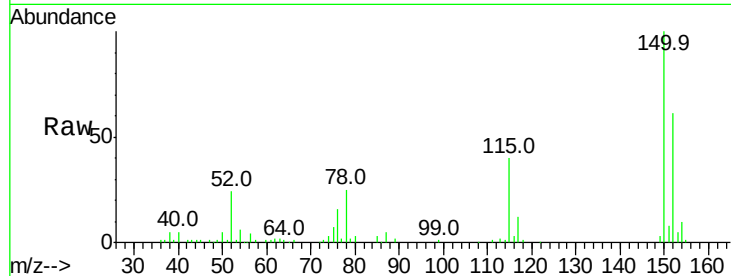


#1

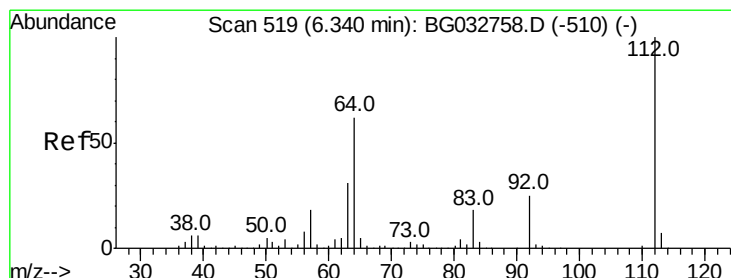
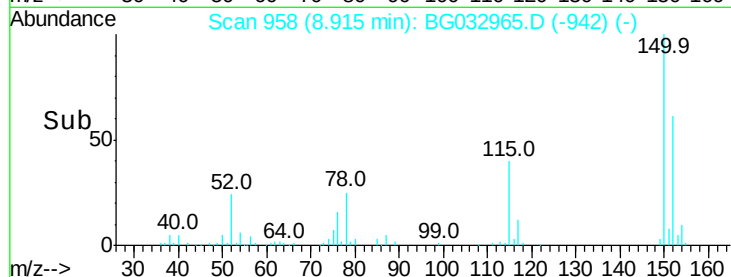
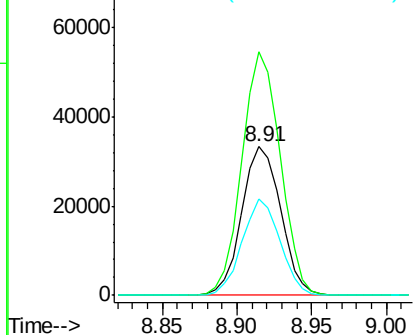
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.91 min Scan# 958  
Delta R.T. -0.01 min  
Lab File: BG032965.D  
Acq: 3 Mar 2018 4:13

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 60182  
Ion Ratio Lower Upper  
152 100  
150 163.6 126.6 189.8  
115 64.9 53.0 79.4



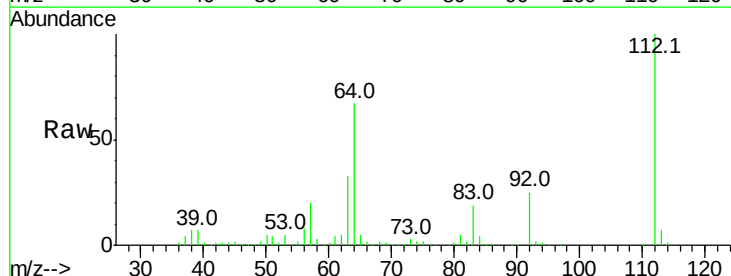
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



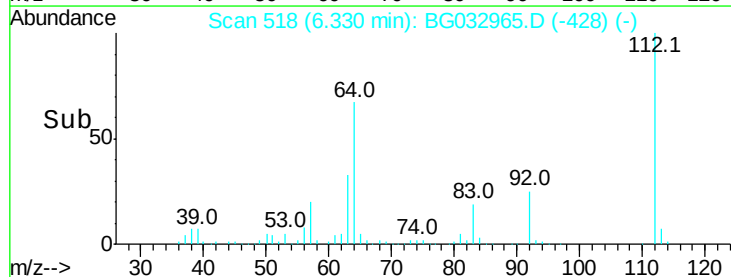
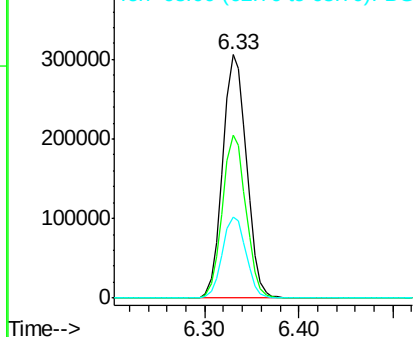
#5

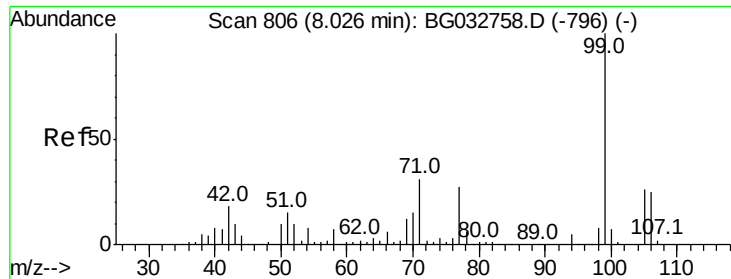
2-Fluorophenol  
Concen: 143.641 ng  
RT: 6.33 min Scan# 518  
Delta R.T. -0.00 min  
Lab File: BG032965.D  
Acq: 3 Mar 2018 4:13

Tgt Ion:112 Resp: 540336  
Ion Ratio Lower Upper  
112 100  
64 67.0 56.3 84.5  
63 33.5 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: 125.457 ng

RT: 8.01 min Scan# 804

Delta R.T. -0.01 min

Lab File: BG032965.D

Acq: 3 Mar 2018 4:13

Instrument :

BNA\_G

ClientSampleId :

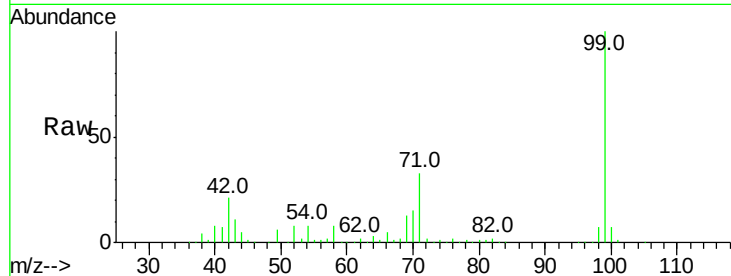
Tot Ion: 99 Resp: 657808

Ion Ratio Lower Upper

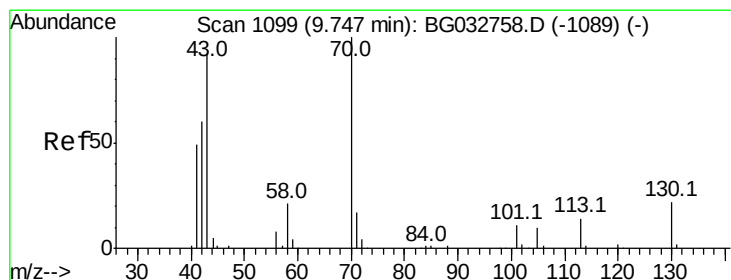
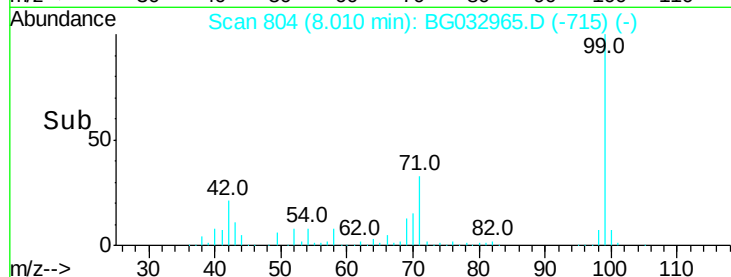
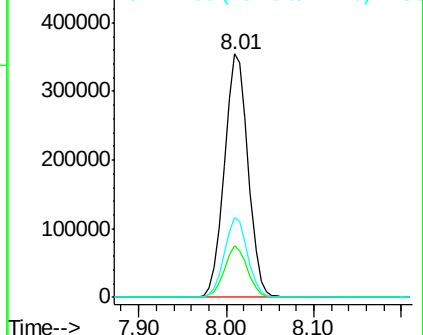
99 100

42 21.0 14.1 21.1

71 32.7 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: 16.126 ng

RT: 10.12 min Scan# 1163

Delta R.T. 0.39 min

Lab File: BG032965.D

Acq: 3 Mar 2018 4:13

Tgt Ion: 70 Resp: 59691

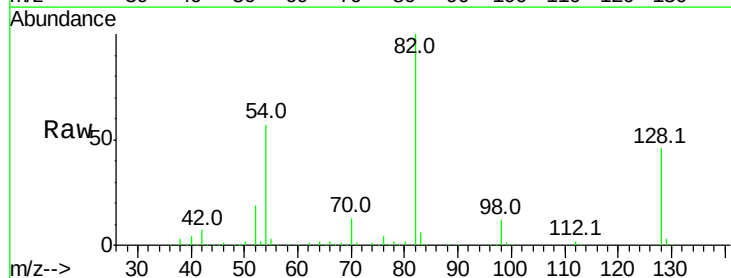
Ion Ratio Lower Upper

70 100

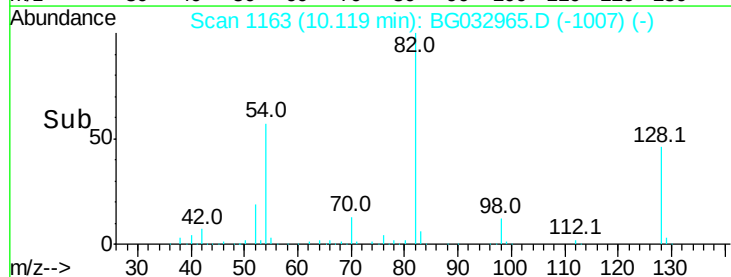
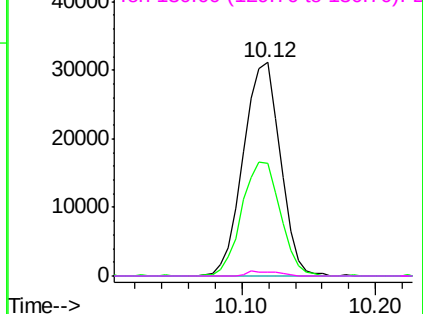
42 52.9 49.1 73.7

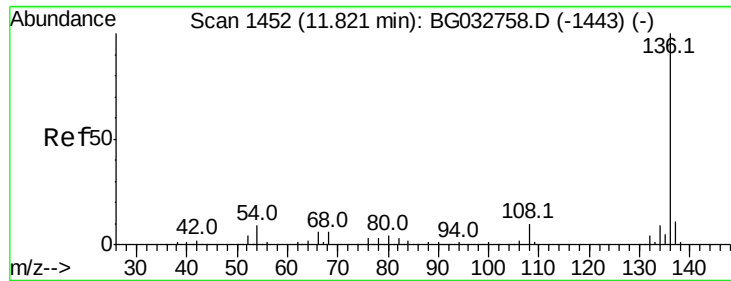
101 0.0 8.5 12.7#

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

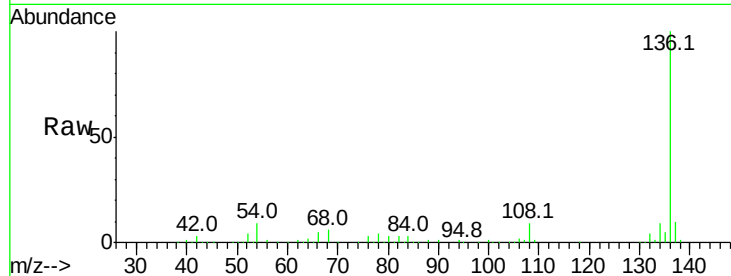




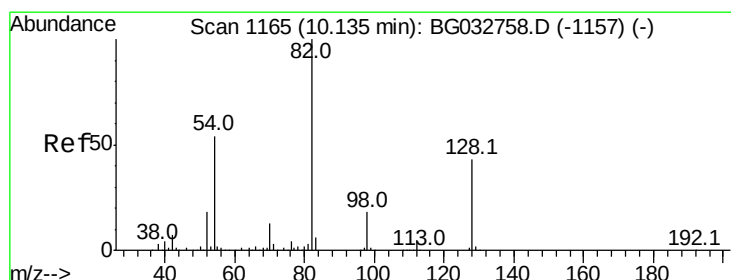
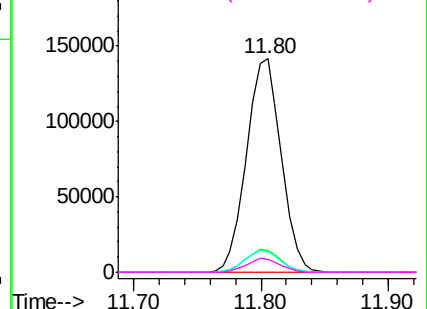
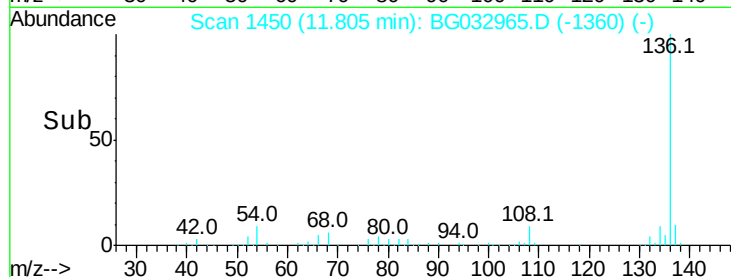
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.80 min Scan# 1450  
Delta R.T. -0.00 min  
Lab File: BG032965.D  
Acq: 3 Mar 2018 4:13

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 10.3  | 9.2   | 13.8  |
| 54      | 9.4   | 10.3  | 15.5  |
| 68      | 6.0   | 4.5   | 6.7   |

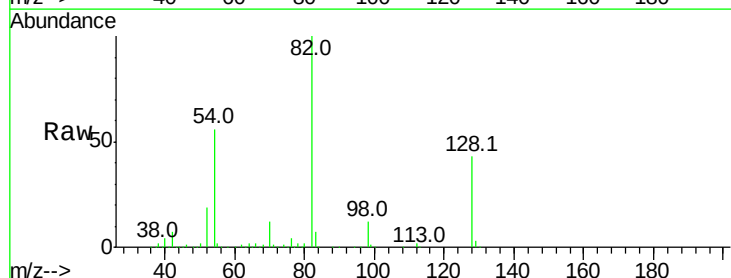


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

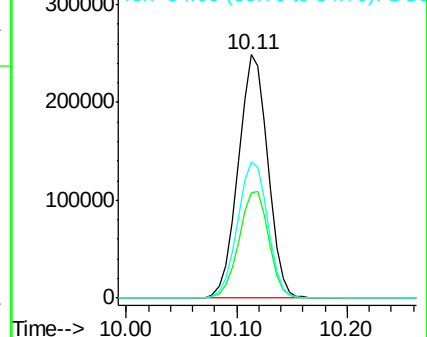
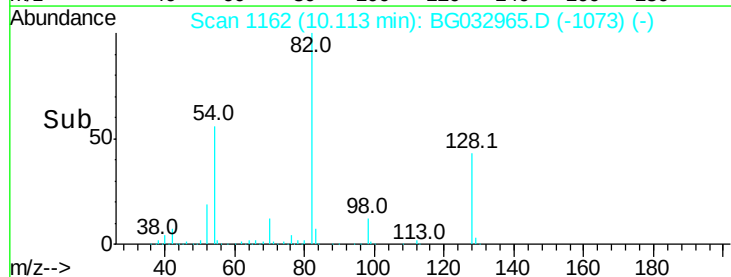


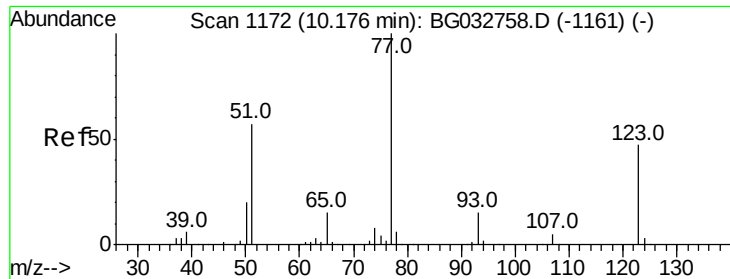
#23  
Nitrobenzene-d5  
Concen: 116.789 ng  
RT: 10.11 min Scan# 1162  
Delta R.T. -0.01 min  
Lab File: BG032965.D  
Acq: 3 Mar 2018 4:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 43.3  | 29.7  | 44.5  |
| 54      | 55.9  | 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: 6.681 ng

RT: 10.12 min Scan# 1163

Delta R.T. -0.05 min

Lab File: BG032965.D

Acq: 3 Mar 2018 4:13

Instrument :

BNA\_G

ClientSampled :

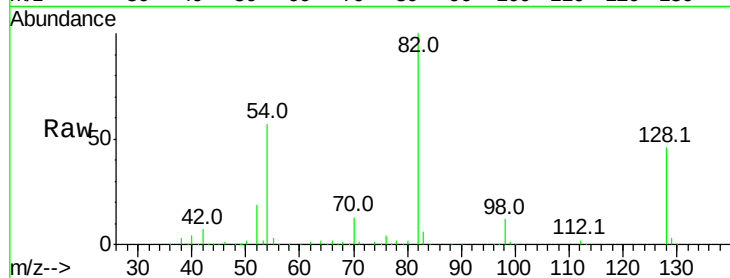
Tot Ion: 77 Resp: 1486

Ion Ratio Lower Upper

77 100

123 0.0 33.0 49.6#

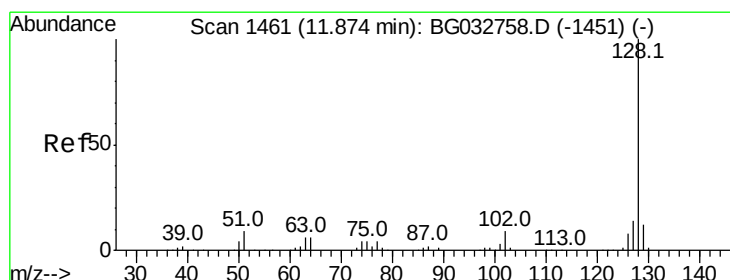
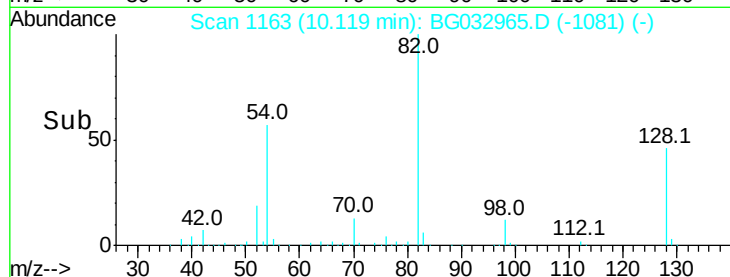
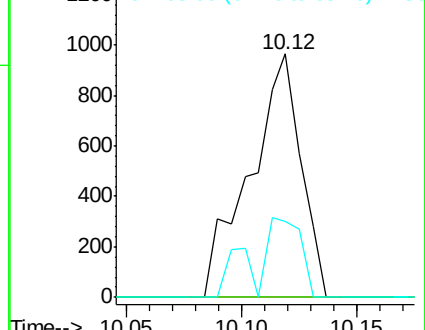
65 31.2 13.0 19.6#



Abundance Ion 77.00 (76.70 to 77.70): BGC

Ion 123.00 (122.70 to 123.70): BGC

Ion 65.00 (64.70 to 65.70): BGC



#31

Naphthalene

Concen: 2.154 ng

RT: 11.85 min Scan# 1458

Delta R.T. -0.01 min

Lab File: BG032965.D

Acq: 3 Mar 2018 4:13

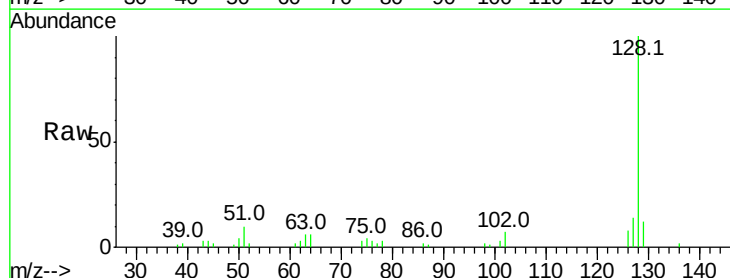
Tgt Ion: 128 Resp: 30223

Ion Ratio Lower Upper

128 100

129 12.4 8.6 12.8

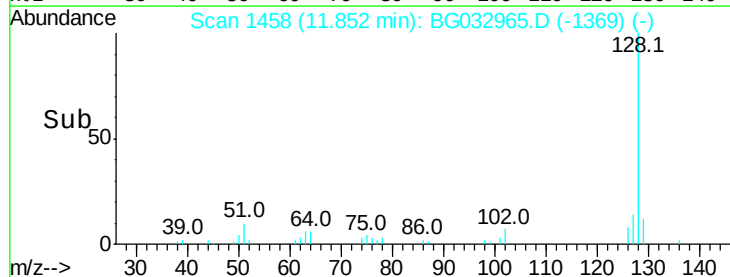
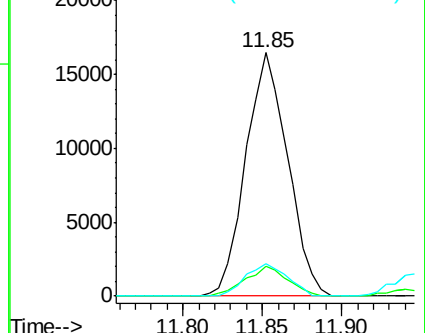
127 13.6 11.6 17.4

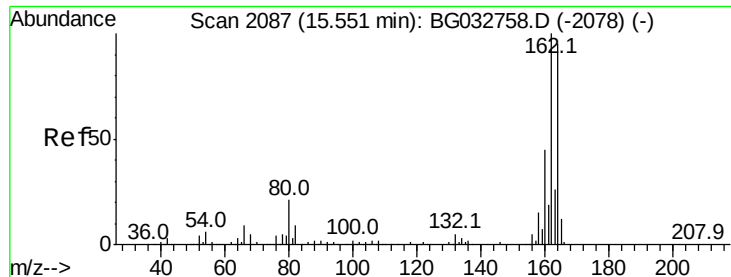


Abundance Ion 128.00 (127.70 to 128.70): BGC

Ion 129.00 (128.70 to 129.70): BGC

Ion 127.00 (126.70 to 127.70): BGC





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 15.53 min Scan# 2084

Delta R.T. -0.01 min

Lab File: BG032965.D

Acq: 3 Mar 2018 4:13

Instrument :

BNA\_G

ClientSampleId :

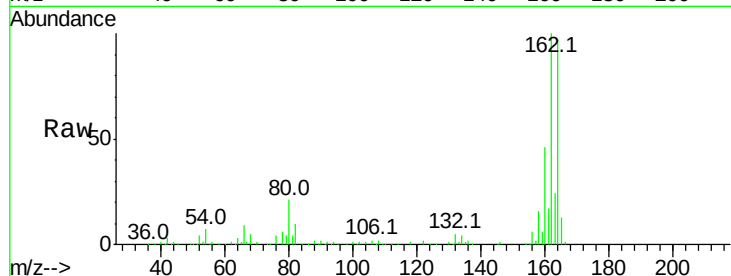
Tot Ion:164 Resp: 150097

Ion Ratio Lower Upper

164 100

162 102.9 78.8 118.2

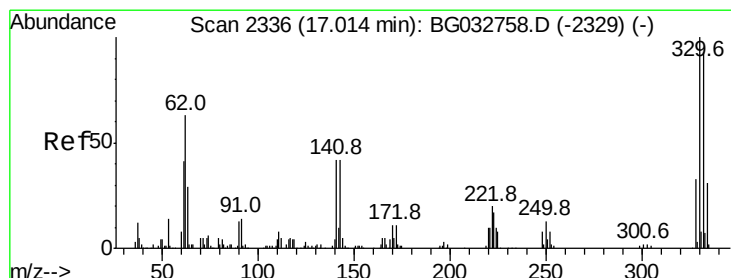
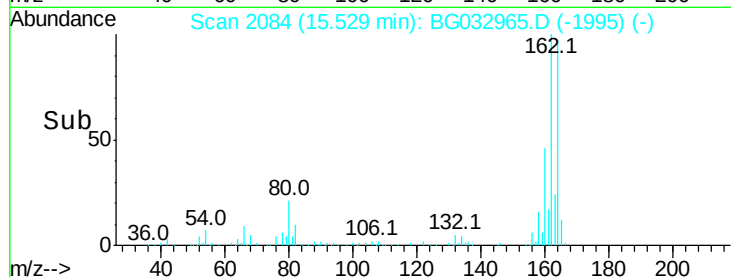
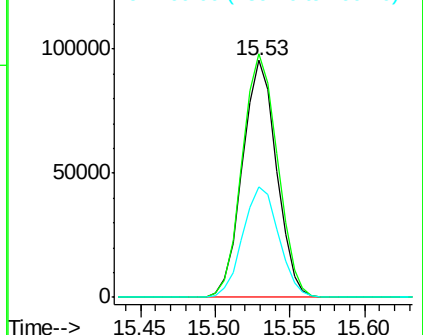
160 46.9 35.4 53.0



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: 148.089 ng

RT: 17.00 min Scan# 2335

Delta R.T. -0.00 min

Lab File: BG032965.D

Acq: 3 Mar 2018 4:13

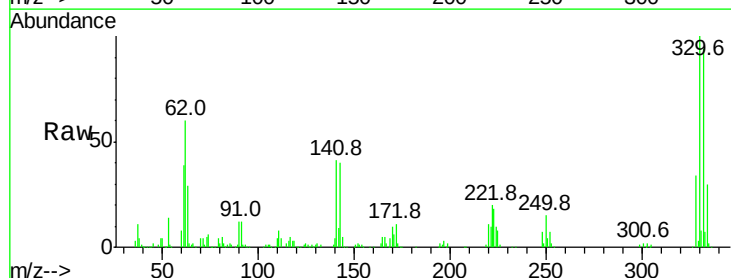
Tgt Ion:330 Resp: 233716

Ion Ratio Lower Upper

330 100

332 96.1 77.0 115.6

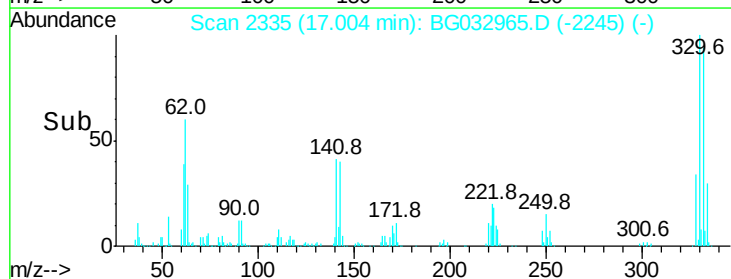
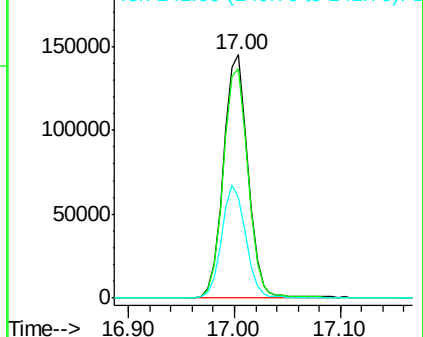
141 45.9 25.2 37.8#

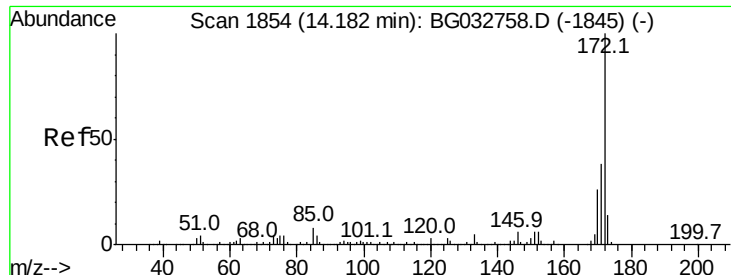


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

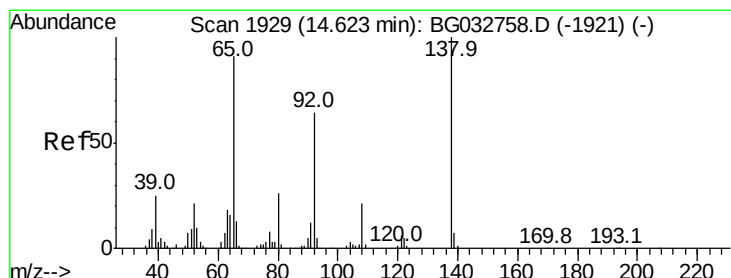
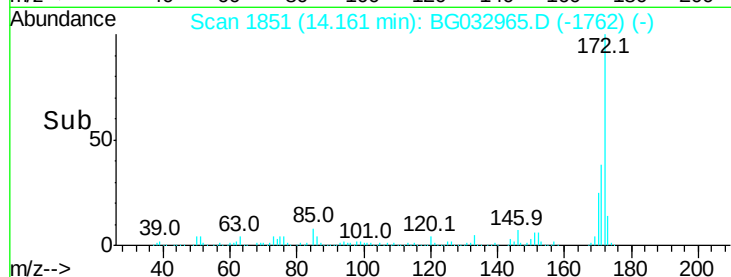
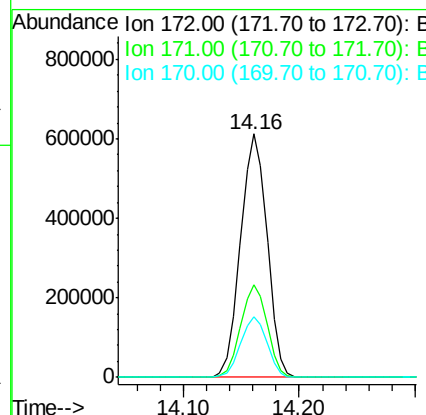
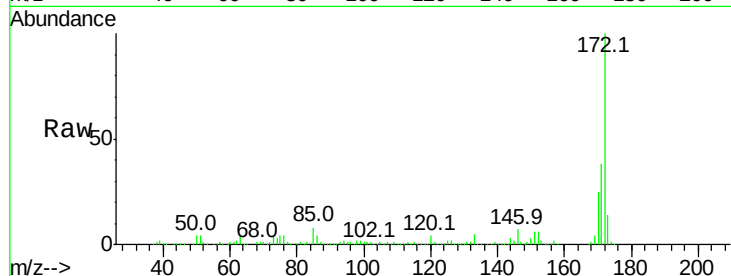




#44  
2-Fluorobiphenyl  
Concen: 93.498 ng  
RT: 14.16 min Scan# 1851  
Delta R.T. -0.01 min  
Lab File: BG032965.D  
Acq: 3 Mar 2018 4:13

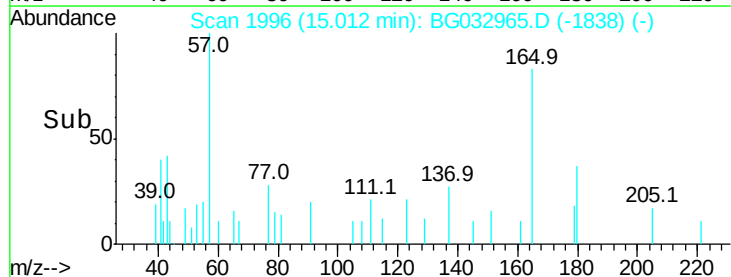
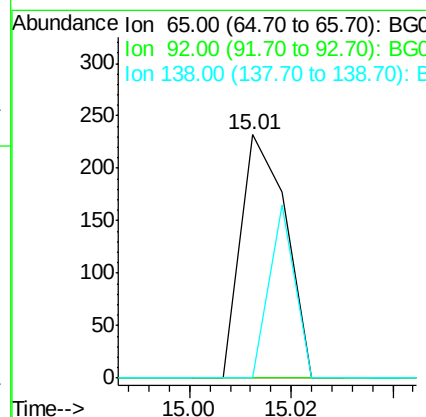
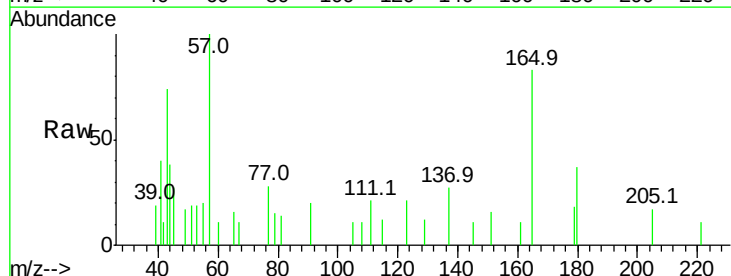
Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.8  | 30.0  | 45.0  |
| 170     | 24.9  | 19.5  | 29.3  |

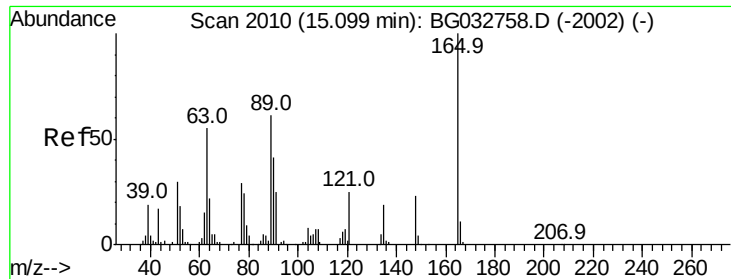


#47  
2-Nitroaniline  
Concen: 9.882 ng  
RT: 15.01 min Scan# 1996  
Delta R.T. 0.40 min  
Lab File: BG032965.D  
Acq: 3 Mar 2018 4:13

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 65      | 100   |       |        |
| 92      | 0.0   | 54.6  | 82.0#  |
| 138     | 0.0   | 72.9  | 109.3# |



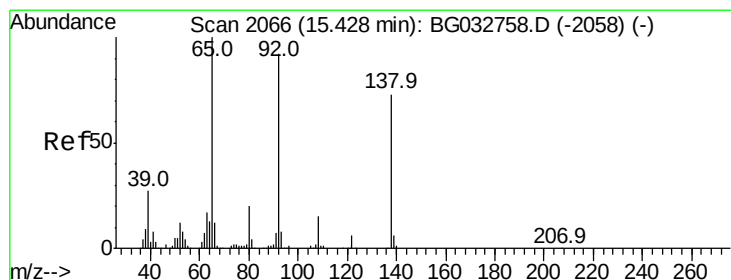
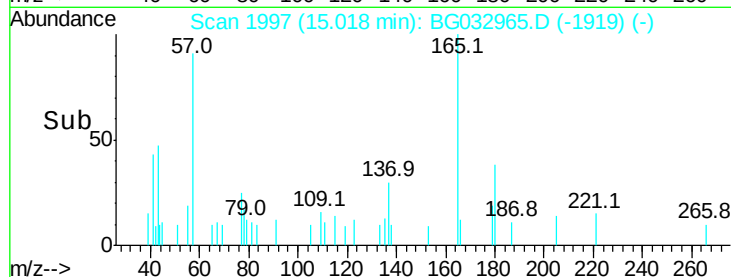
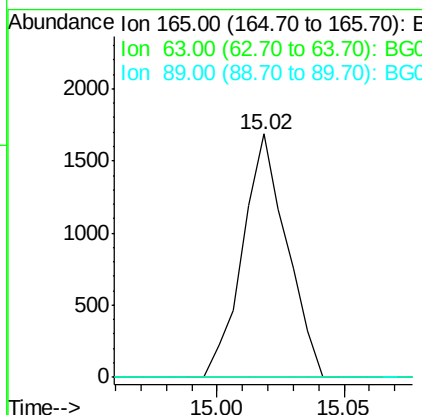
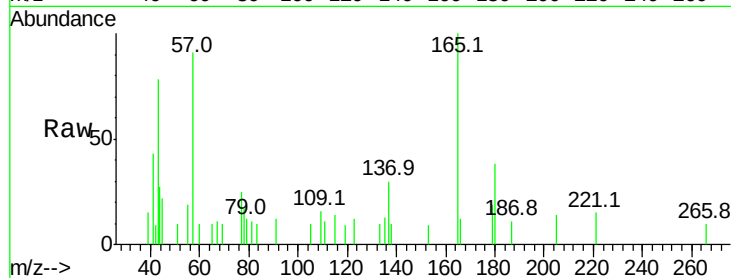




#50  
2,6-Dinitrotoluene  
Concen: 9.690 ng  
RT: 15.02 min Scan# 1997  
Delta R.T. -0.07 min  
Lab File: BG032965.D  
Acq: 3 Mar 2018 4:13

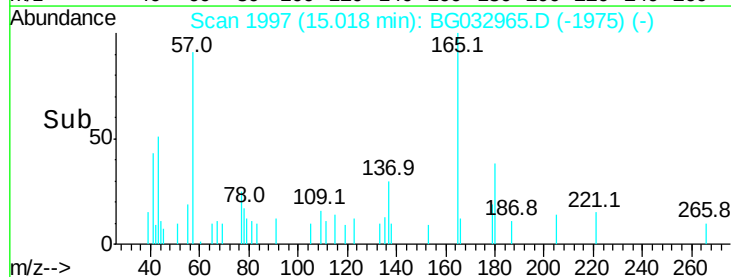
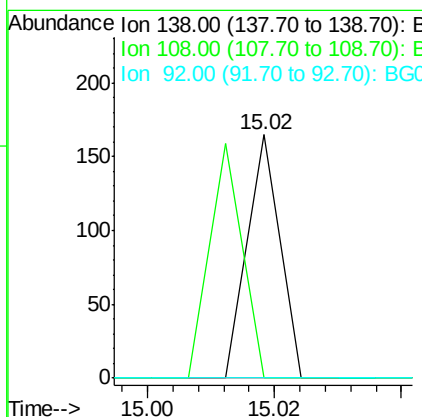
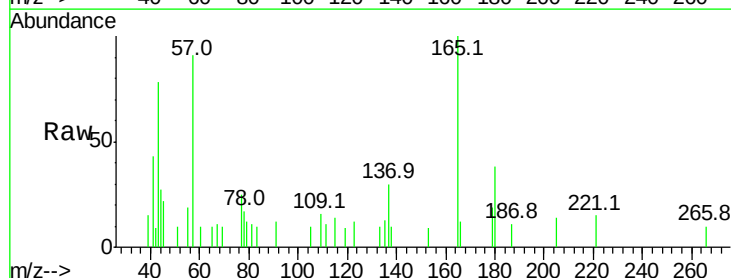
Instrument :  
BNA\_G  
ClientSampleId :

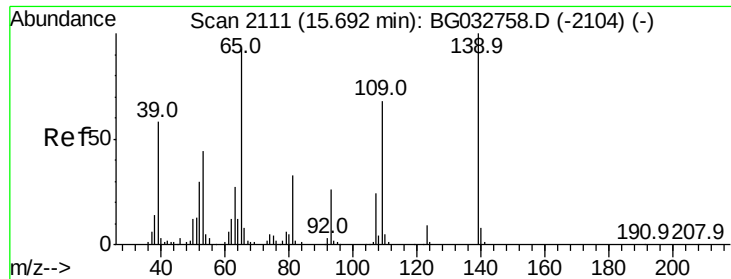
Tot Ion:165 Resp: 2051  
Ion Ratio Lower Upper  
165 100  
63 0.0 52.7 79.1#  
89 0.0 49.2 73.8#



#52  
3-Nitroaniline  
Concen: 7.562 ng  
RT: 15.02 min Scan# 1997  
Delta R.T. -0.40 min  
Lab File: BG032965.D  
Acq: 3 Mar 2018 4:13

Tgt Ion:138 Resp: 58  
Ion Ratio Lower Upper  
138 100  
108 0.0 17.5 26.3#  
92 0.0 105.8 158.8#

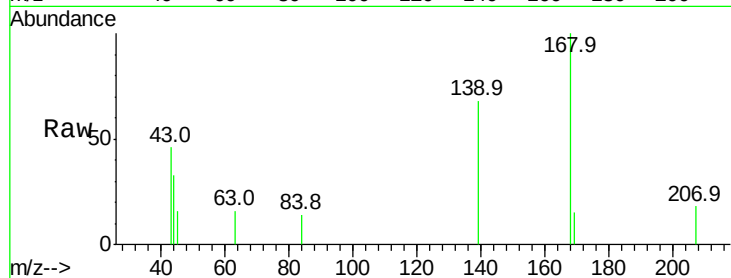




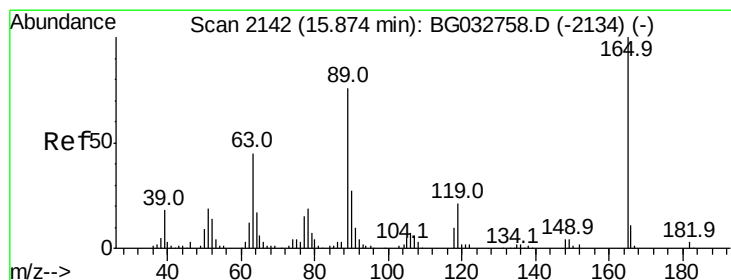
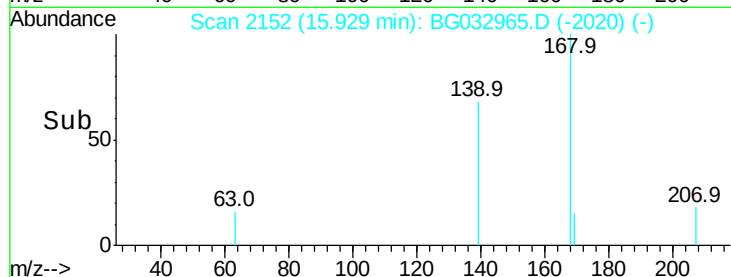
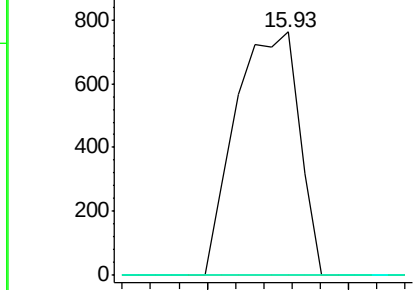
#55  
4-Nitrophenol  
Concen: 7.599 ng  
RT: 15.93 min Scan# 2152  
Delta R.T. 0.25 min  
Lab File: BG032965.D  
Acq: 3 Mar 2018 4:13

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:139 Resp: 1186  
Ion Ratio Lower Upper  
139 100  
109 0.0 62.2 102.2#  
65 0.0 97.2 137.2#

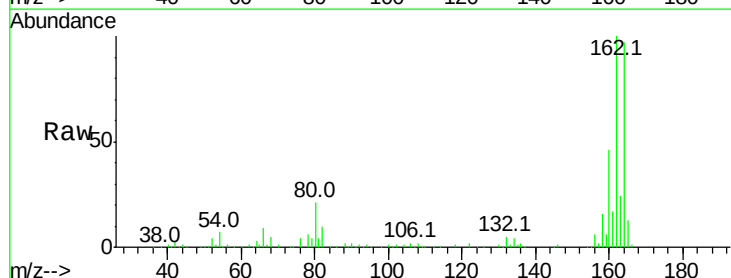


Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): BGC

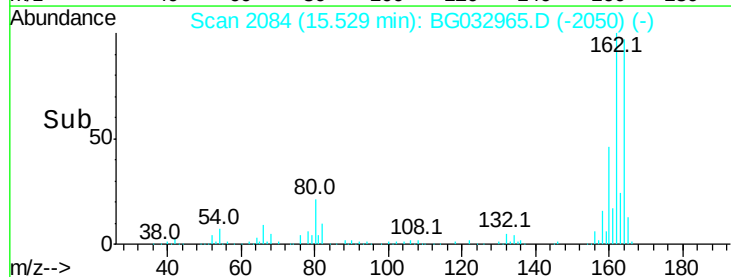
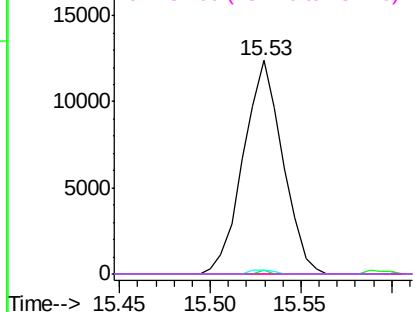


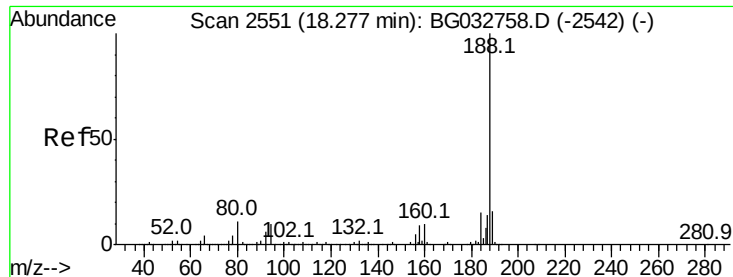
#56  
2,4-Dinitrotoluene  
Concen: 14.361 ng  
RT: 15.53 min Scan# 2084  
Delta R.T. -0.33 min  
Lab File: BG032965.D  
Acq: 3 Mar 2018 4:13

Tgt Ion:165 Resp: 18817  
Ion Ratio Lower Upper  
165 100  
63 1.7 42.0 63.0#  
89 1.7 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

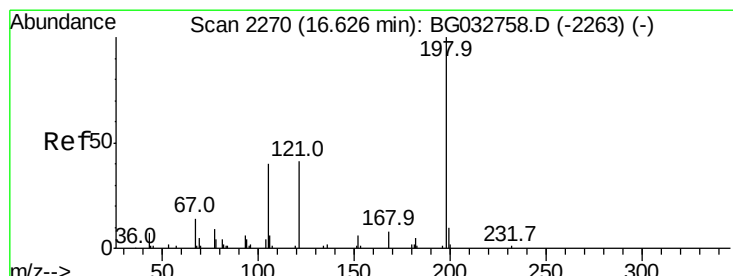
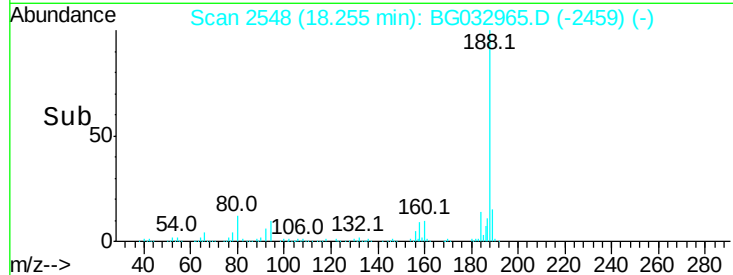
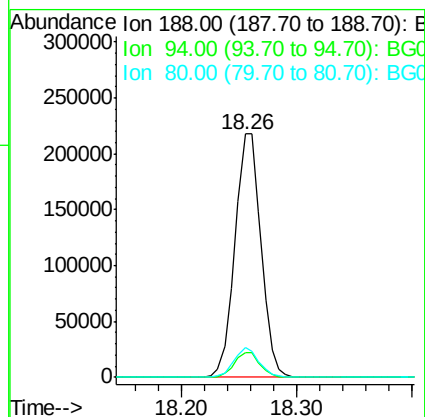
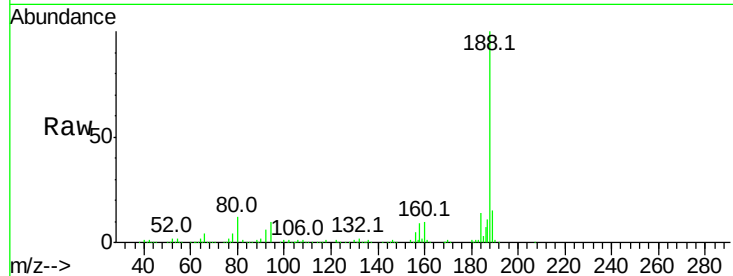




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 18.26 min Scan# 2548  
Delta R.T. -0.01 min  
Lab File: BG032965.D  
Acq: 3 Mar 2018 4:13

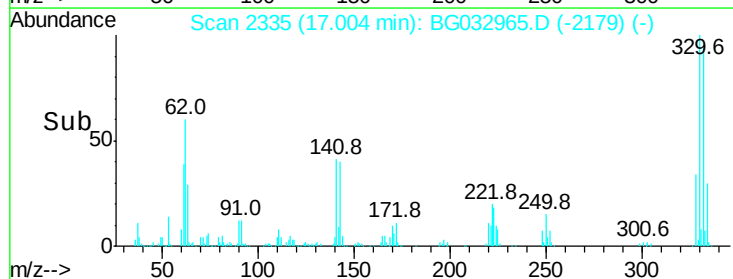
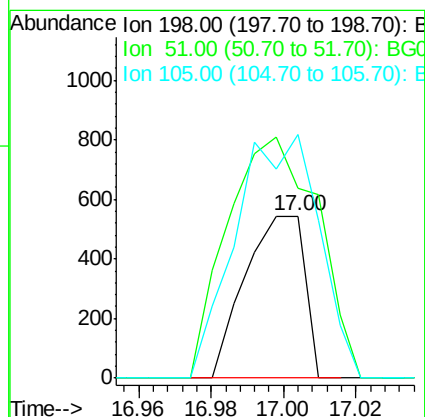
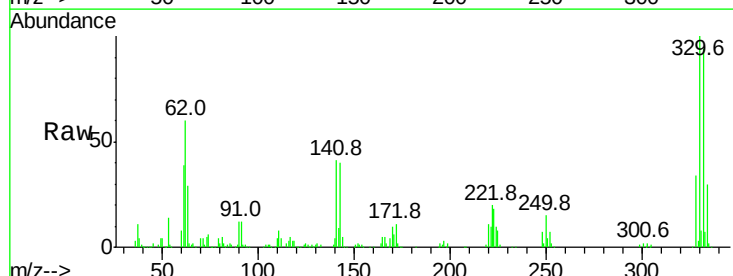
Instrument :  
BNA\_G  
ClientSampled :

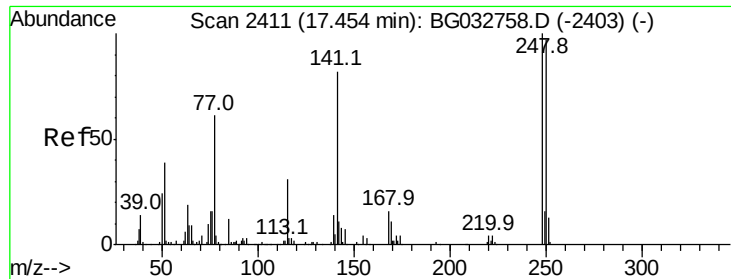
Tot Ion:188 Resp: 340175  
Ion Ratio Lower Upper  
188 100  
94 10.3 6.9 10.3  
80 12.1 7.7 11.5#



#64  
4,6-Dinitro-2-methylphenol  
Concen: 5.722 ng  
RT: 17.00 min Scan# 2335  
Delta R.T. 0.39 min  
Lab File: BG032965.D  
Acq: 3 Mar 2018 4:13

Tgt Ion:198 Resp: 619  
Ion Ratio Lower Upper  
198 100  
51 117.1 30.6 70.6#  
105 150.4 23.8 63.8#

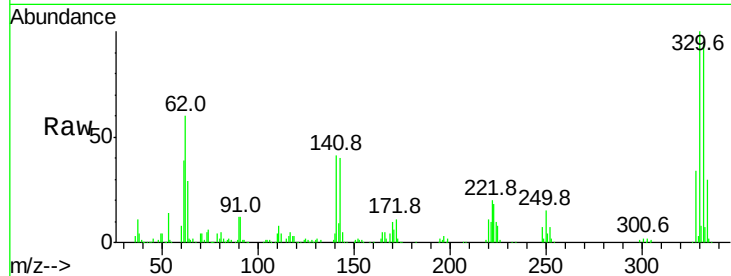




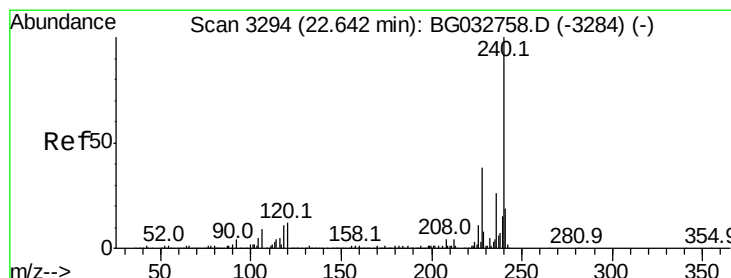
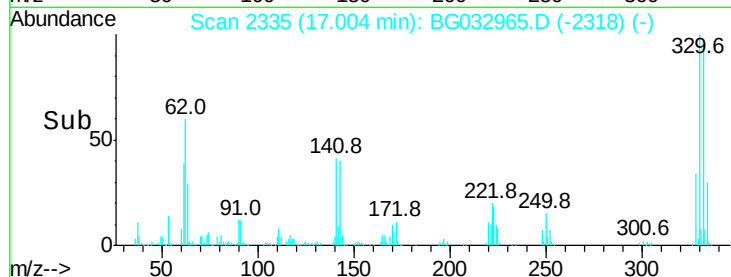
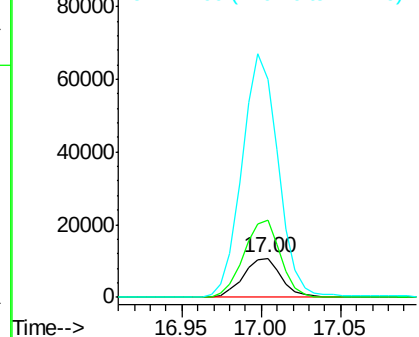
#66  
 4-Bromophenyl-phenylether  
 Concen: 4.922 ng  
 RT: 17.00 min Scan# 2335  
 Delta R.T. -0.43 min  
 Lab File: BG032965.D  
 Acq: 3 Mar 2018 4:13

Instrument :  
 BNA\_G  
 ClientSampled :

Tot Ion:248 Resp: 17705  
 Ion Ratio Lower Upper  
 248 100  
 250 197.4 77.1 115.7#  
 141 562.2 50.8 76.2#

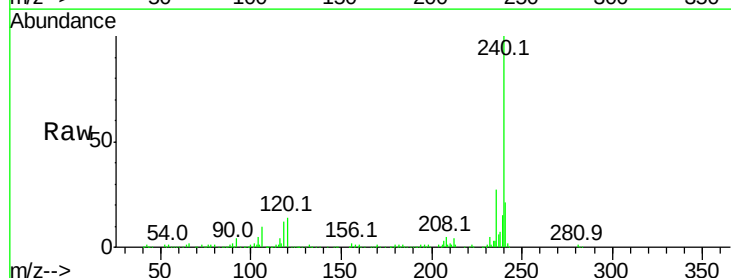


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

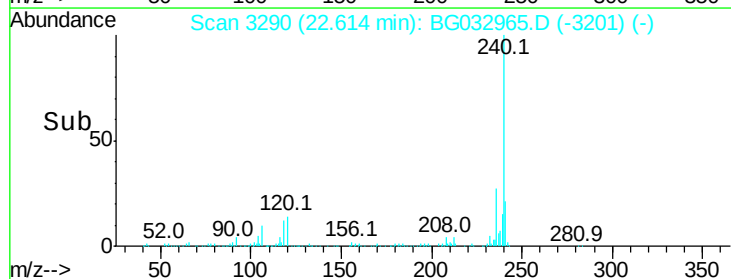
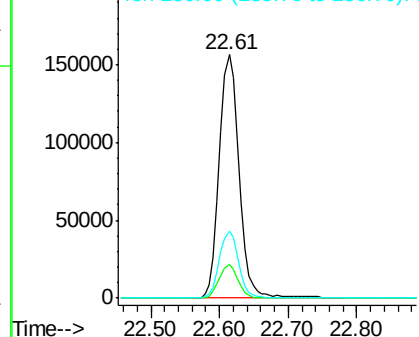


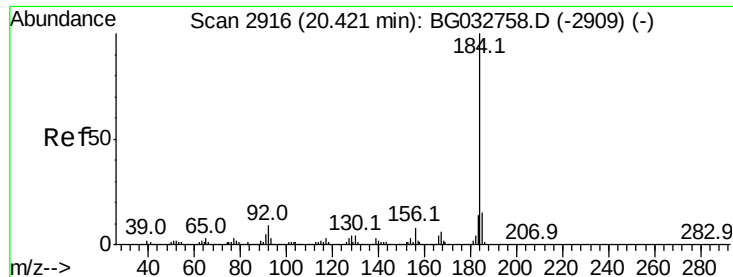
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 22.61 min Scan# 3290  
 Delta R.T. -0.01 min  
 Lab File: BG032965.D  
 Acq: 3 Mar 2018 4:13

Tgt Ion:240 Resp: 315147  
 Ion Ratio Lower Upper  
 240 100  
 120 14.1 6.8 10.2#  
 236 27.5 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: 25.059 ng

RT: 20.41 min Scan# 2914

Delta R.T. -0.01 min

Lab File: BG032965.D

Acq: 3 Mar 2018 4:13

Instrument :

BNA\_G

ClientSampleId :

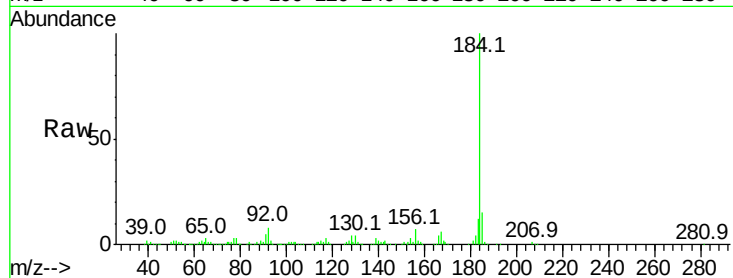
Tot Ion:184 Resp: 269188

Ion Ratio Lower Upper

184 100

185 14.7 11.1 16.7

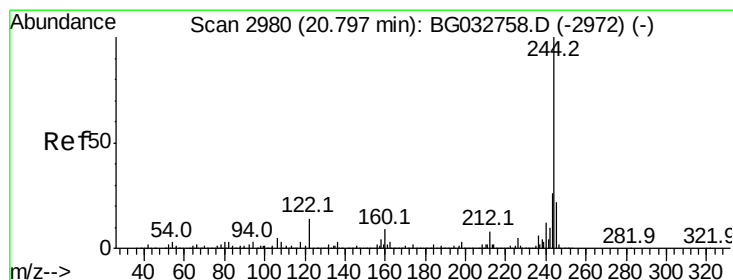
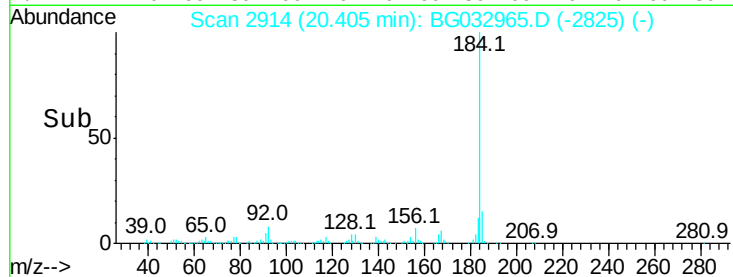
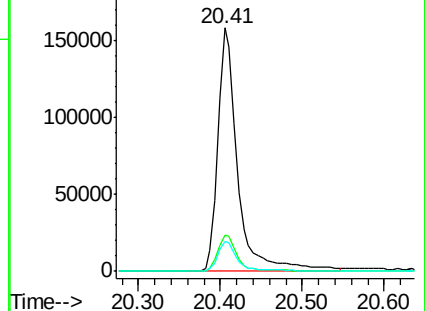
183 12.3 10.6 16.0



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: 104.370 ng

RT: 20.78 min Scan# 2977

Delta R.T. -0.00 min

Lab File: BG032965.D

Acq: 3 Mar 2018 4:13

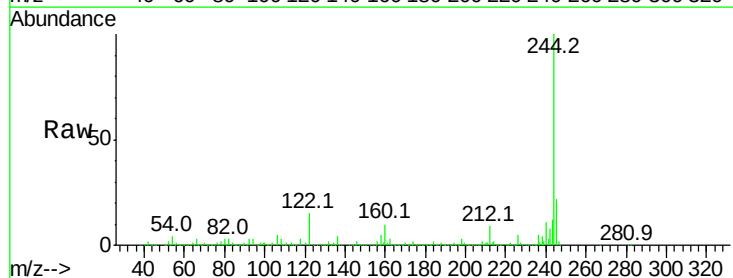
Tgt Ion:244 Resp: 1463991

Ion Ratio Lower Upper

244 100

212 8.8 5.8 8.8#

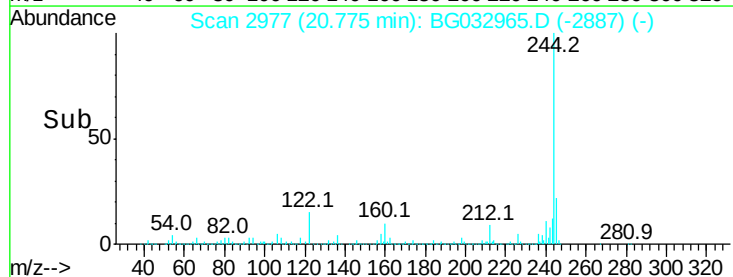
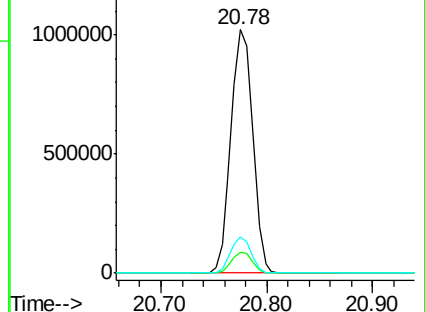
122 14.8 7.0 10.4#

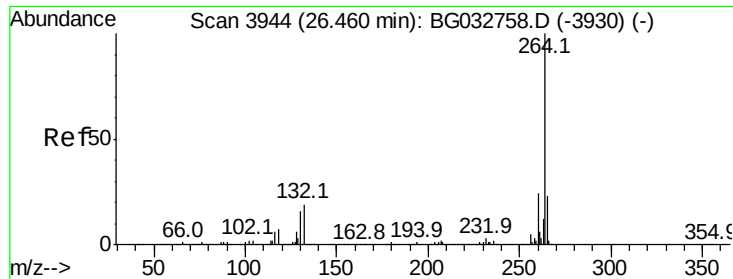


Abundance Ion 244.00 (243.70 to 244.70): E

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: 26.43 min Scan# 3939  
Delta R.T. -0.00 min  
Lab File: BG032965.D  
Acq: 3 Mar 2018 4:13

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.0  | 17.4  | 26.0  |
| 265     | 21.1  | 17.7  | 26.5  |

