

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG061118\  
 Data File : BG035054.D  
 Acq On : 12 Jun 2018 5:51  
 Operator : SJ/JU  
 Sample : J3401-04  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Jun 12 06:48:35 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG060718.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 08 17:16:28 2018  
 Response via : Initial Calibration

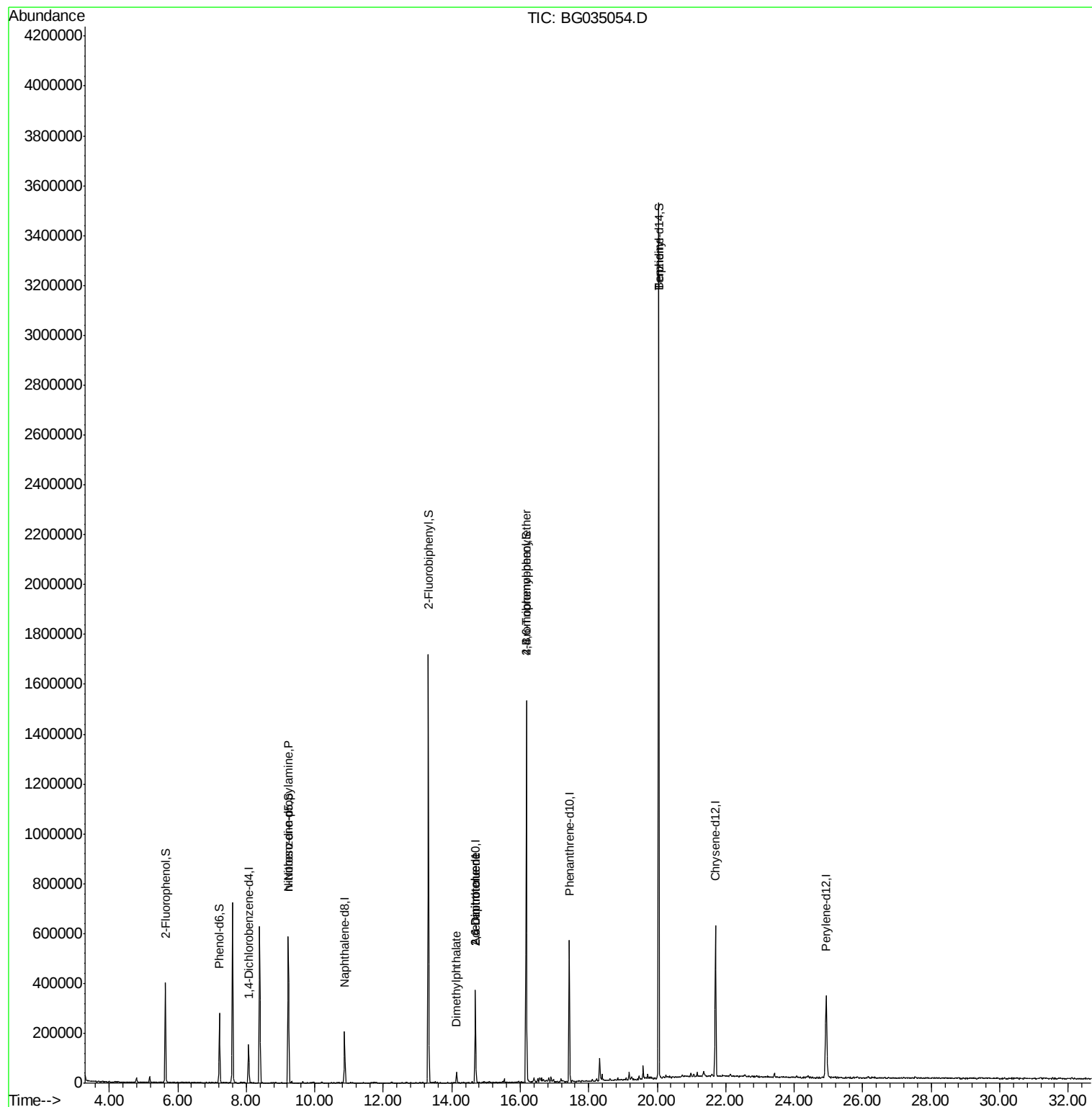
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.07  | 152  | 43592    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.88 | 136  | 174126   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 14.69 | 164  | 131602   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 17.43 | 188  | 350356   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 21.70 | 240  | 379898   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 24.94 | 264  | 371670   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.64  | 112  | 170161   | 65.88  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.22  | 99   | 165242   | 43.34  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.23  | 82   | 388534   | 106.07 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 16.18 | 330  | 286448   | 170.03 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 13.32 | 172  | 911460   | 90.04  | ng    | -0.01    |
| 78) Terphenyl-d14              | 20.04 | 244  | 1635878  | 90.20  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.23  | 70   | 54602    | 16.858 | ng    | # 66     |
| 49) Dimethylphthalate          | 14.14 | 163  | 26298    | 2.292  | ng    | # 98     |
| 50) 2,6-Dinitrotoluene         | 14.69 | 165  | 17582    | 8.398  | ng    | # 20     |
| 56) 2,4-Dinitrotoluene         | 14.69 | 165  | 17582    | 6.322  | ng    | # 18     |
| 66) 4-Bromophenyl-phenylether  | 16.18 | 248  | 22113    | 5.241  | ng    | # 1      |
| 76) Benzidine                  | 20.04 | 184  | 28903    | 2.045  | ng    | # 88     |

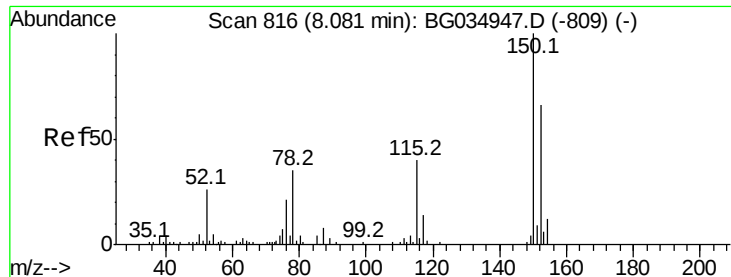
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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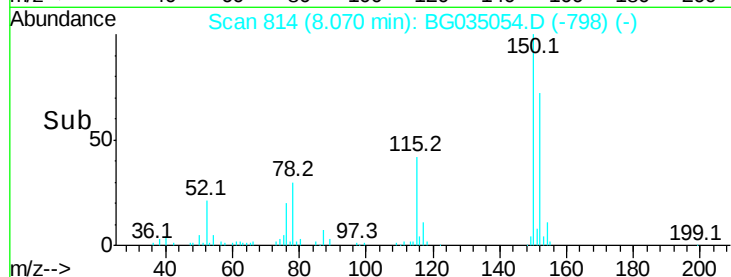
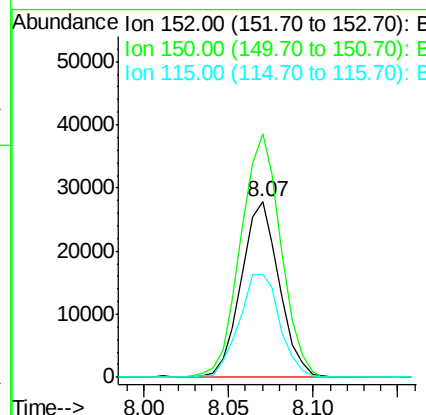
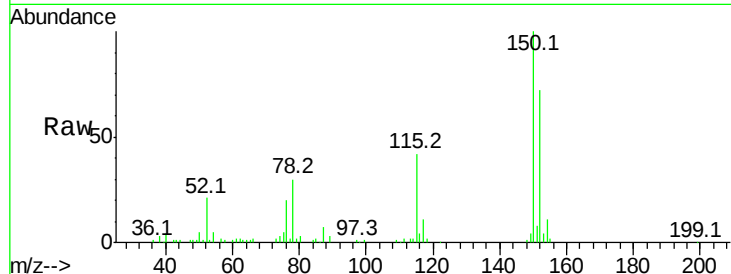


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.07 min Scan# 814  
Delta R.T. -0.01 min  
Lab File: BG035054.D  
Acq: 12 Jun 2018 5:51

Instrument :  
BNA\_M  
ClientSampleId :

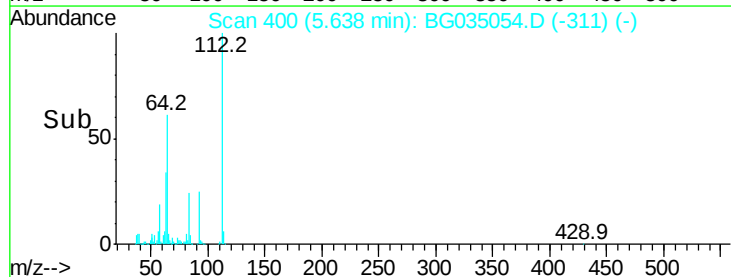
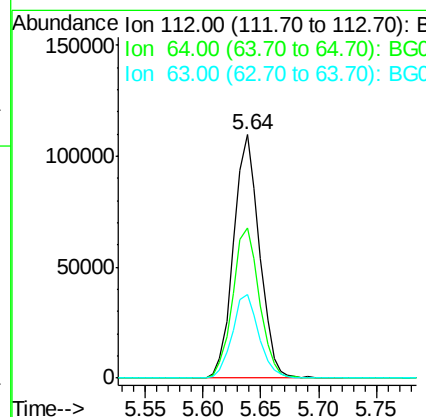
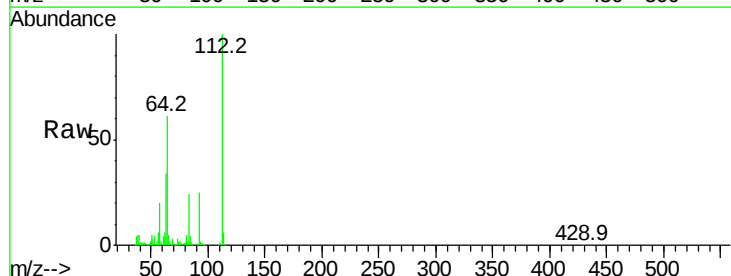
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 139.0 | 126.6 | 189.8 |
| 115     | 58.6  | 53.0  | 79.4  |

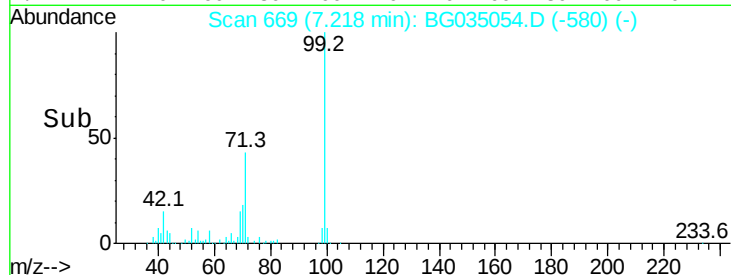
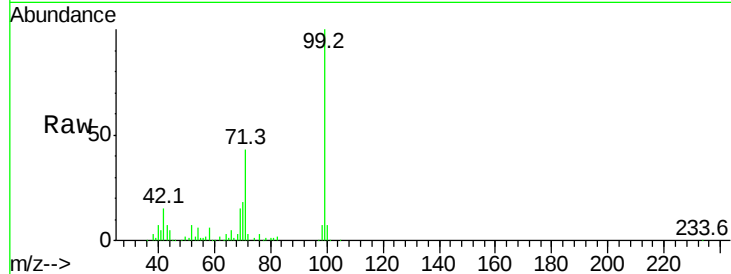
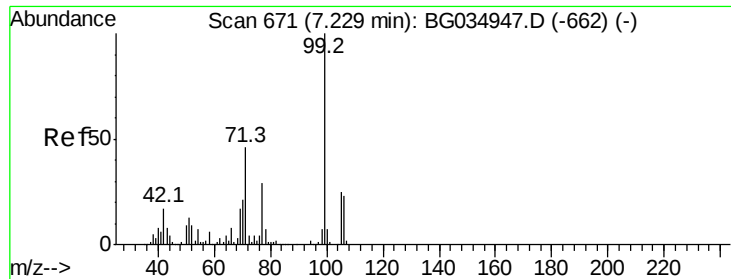


#5

2-Fluorophenol  
Concen: 65.876 ng  
RT: 5.64 min Scan# 400  
Delta R.T. -0.01 min  
Lab File: BG035054.D  
Acq: 12 Jun 2018 5:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 61.5  | 56.3  | 84.5  |
| 63      | 34.3  | 30.1  | 45.1  |





#7

Phenol-d6

Concen: 43.343 ng

RT: 7.22 min Scan# 669

Delta R.T. -0.01 min

Lab File: BG035054.D

Acq: 12 Jun 2018 5:51

Instrument :

BNA\_M

ClientSampleId :

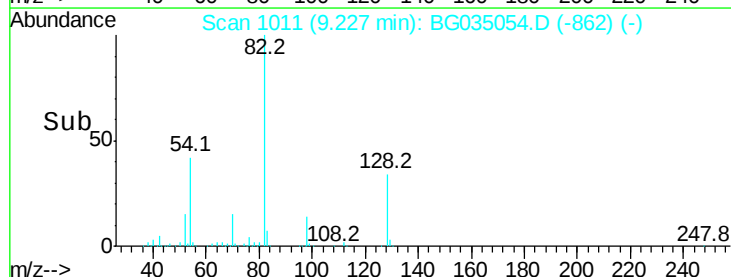
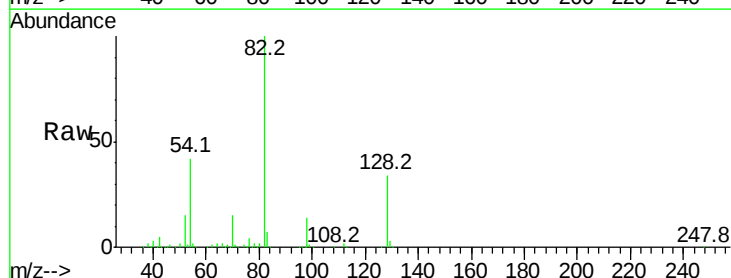
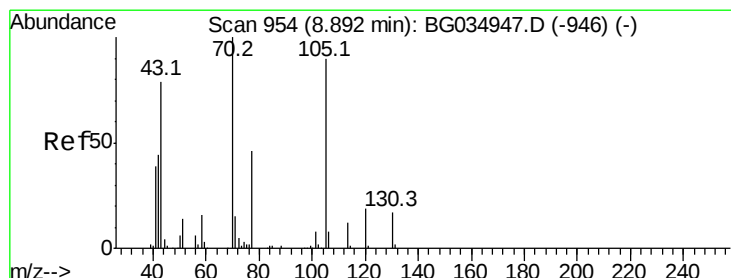
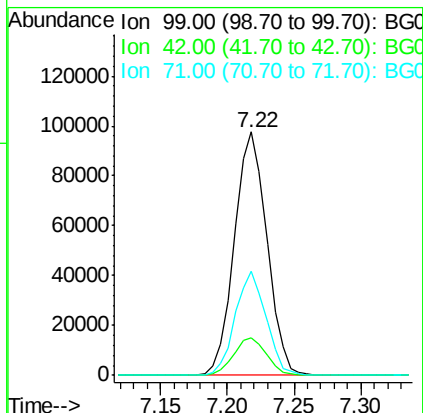
Tot Ion: 99 Resp: 165242

Ion Ratio Lower Upper

99 100

42 15.4 14.1 21.1

71 42.9 26.1 39.1#



#19

n-Nitroso-di-n-propylamine

Concen: 16.858 ng

RT: 9.23 min Scan# 1011

Delta R.T. 0.35 min

Lab File: BG035054.D

Acq: 12 Jun 2018 5:51

Tgt Ion: 70 Resp: 54602

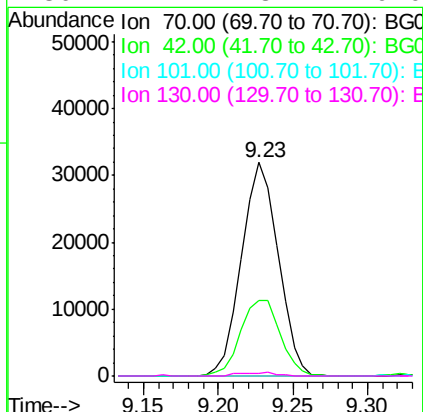
Ion Ratio Lower Upper

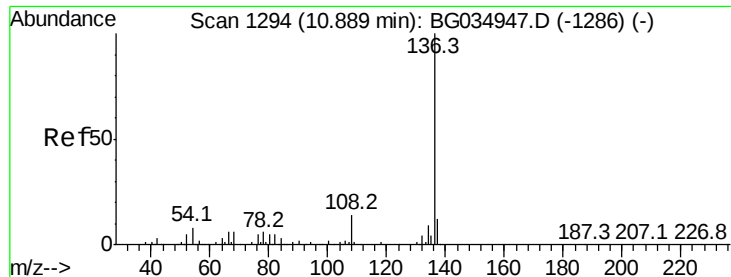
70 100

42 35.3 49.1 73.7#

101 0.0 8.5 12.7#

130 1.2 13.4 20.0#

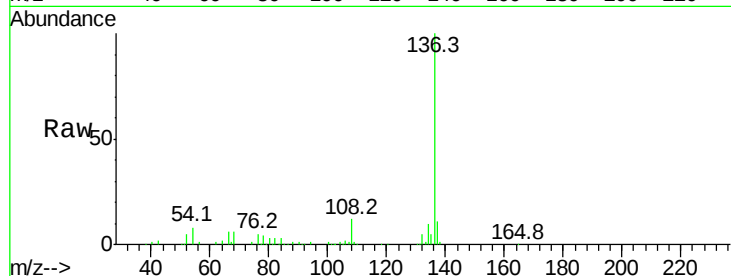




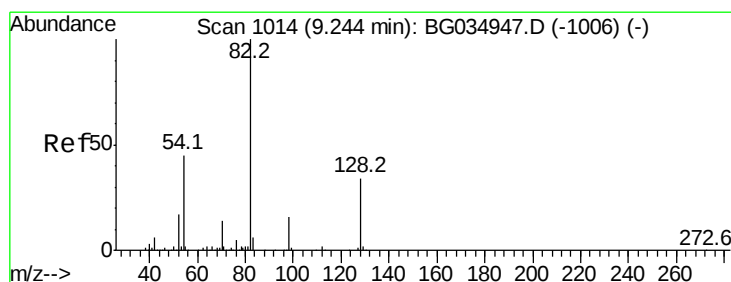
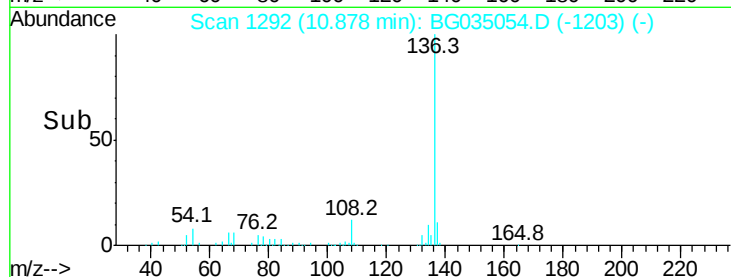
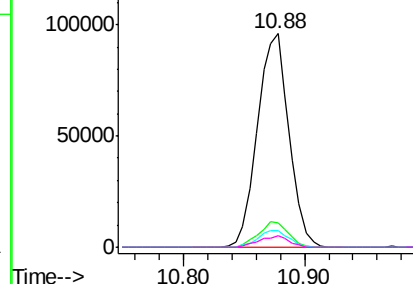
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.88 min Scan# 1292  
Delta R.T. -0.01 min  
Lab File: BG035054.D  
Acq: 12 Jun 2018 5:51

Instrument :  
BNA\_M  
ClientSampled :

|             |       |            |
|-------------|-------|------------|
| Tot Ion:136 | Resp: | 174126     |
| Ion Ratio   | Lower | Upper      |
| 136         | 100   |            |
| 137         | 11.4  | 9.2 13.8   |
| 54          | 7.7   | 10.3 15.5# |
| 68          | 5.5   | 4.5 6.7    |

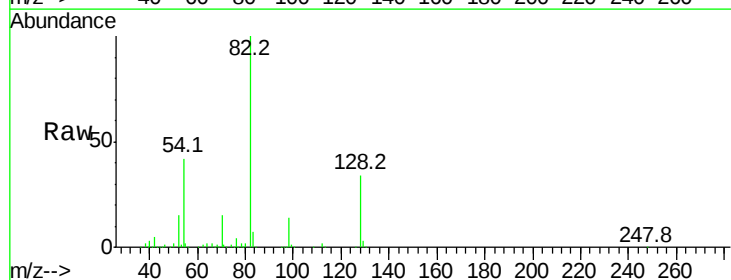


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

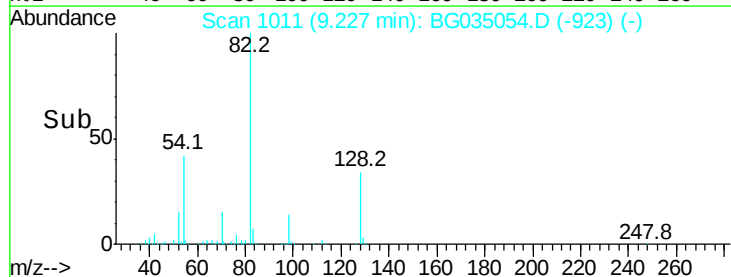
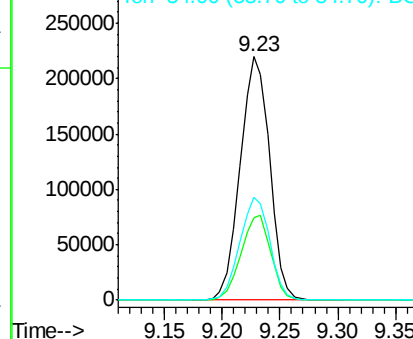


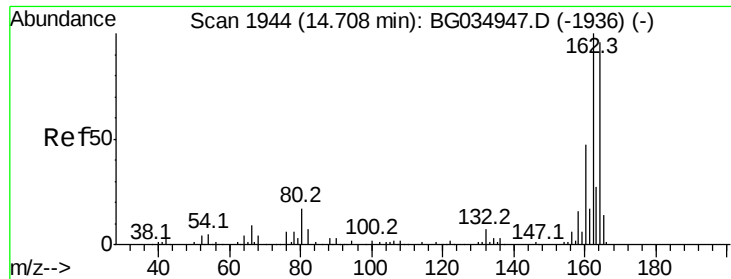
#23  
Nitrobenzene-d5  
Concen: 106.065 ng  
RT: 9.23 min Scan# 1011  
Delta R.T. -0.01 min  
Lab File: BG035054.D  
Acq: 12 Jun 2018 5:51

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 82 | Resp: | 388534     |
| Ion Ratio   | Lower | Upper      |
| 82          | 100   |            |
| 128         | 34.0  | 29.7 44.5  |
| 54          | 42.1  | 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

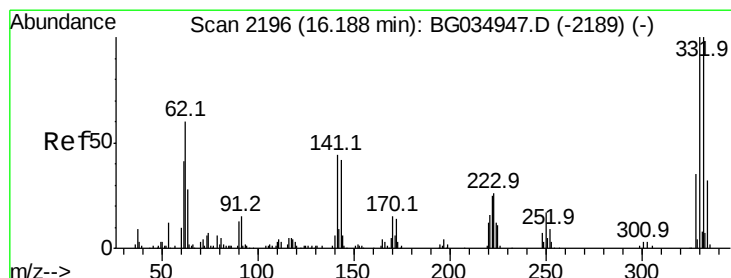
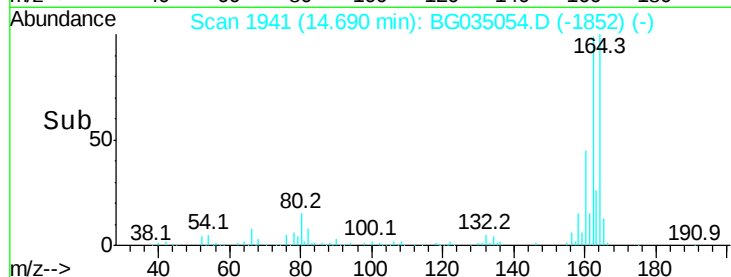
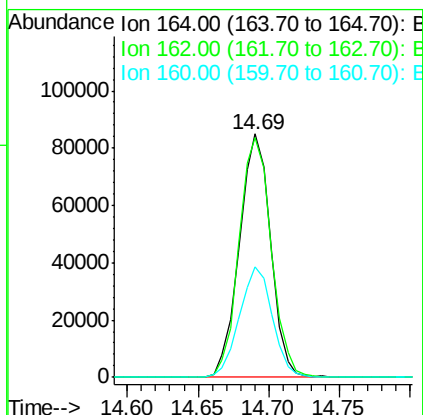
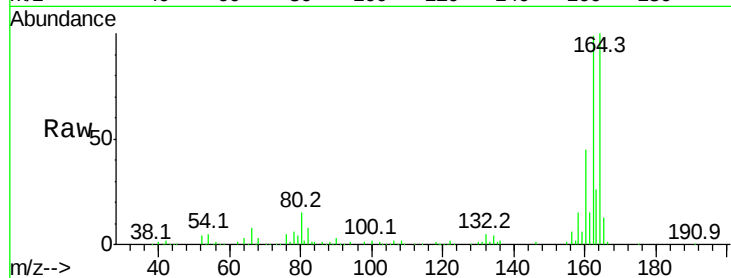




#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.69 min Scan# 1941  
 Delta R.T. -0.01 min  
 Lab File: BG035054.D  
 Acq: 12 Jun 2018 5:51

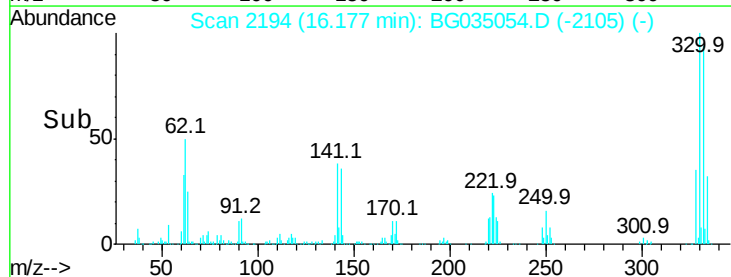
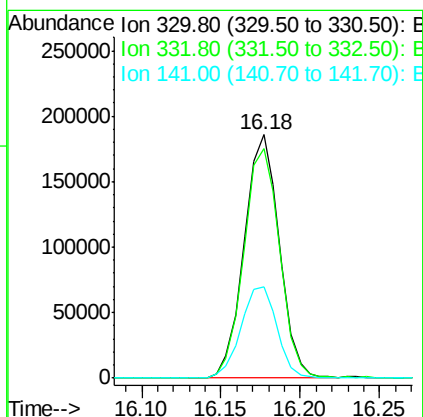
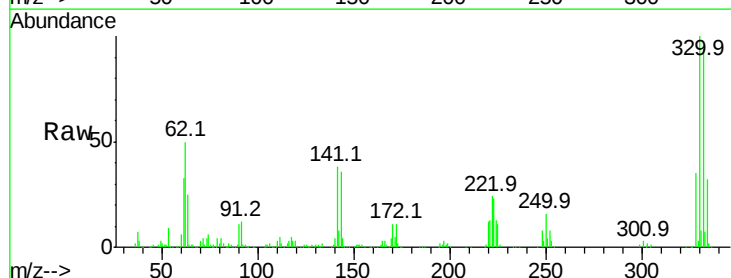
Instrument :  
 BNA\_M  
 ClientSampled :

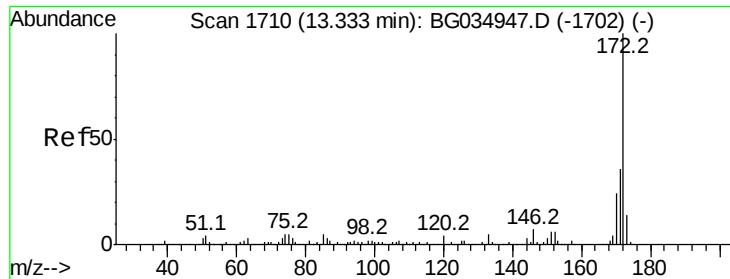
Tot Ion:164 Resp: 131602  
 Ion Ratio Lower Upper  
 164 100  
 162 98.7 78.8 118.2  
 160 45.3 35.4 53.0



#41  
 2,4,6-Tribromophenol  
 Concen: 170.032 ng  
 RT: 16.18 min Scan# 2194  
 Delta R.T. -0.01 min  
 Lab File: BG035054.D  
 Acq: 12 Jun 2018 5:51

Tgt Ion:330 Resp: 286448  
 Ion Ratio Lower Upper  
 330 100  
 332 96.6 77.0 115.6  
 141 38.6 25.2 37.8#

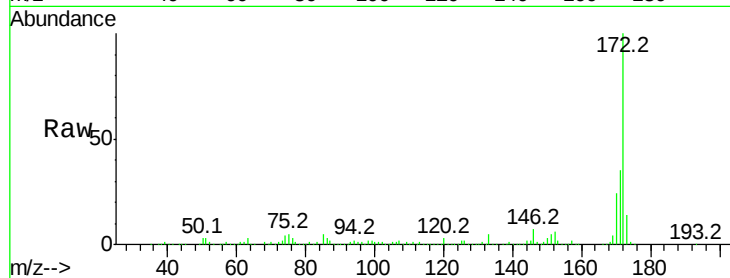




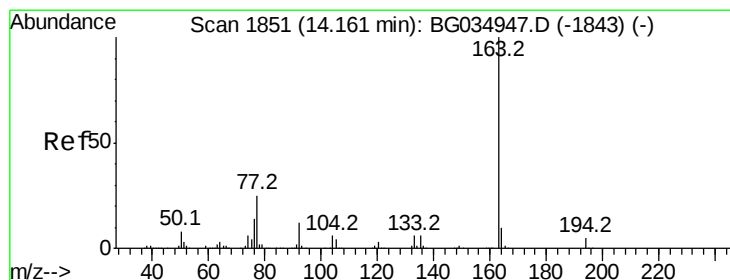
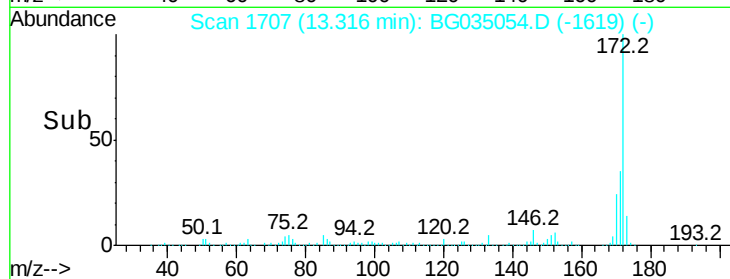
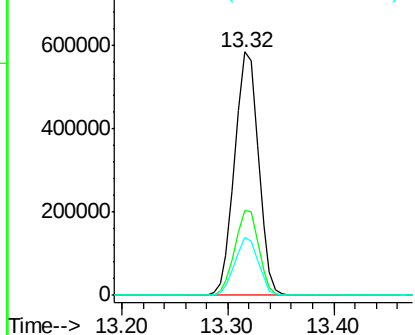
#44  
2-Fluorobiphenyl  
Concen: 90.036 ng  
RT: 13.32 min Scan# 1707  
Delta R.T. -0.01 min  
Lab File: BG035054.D  
Acq: 12 Jun 2018 5:51

Instrument :  
BNA\_M  
ClientSampleId :

Tot Ion:172 Resp: 911460  
Ion Ratio Lower Upper  
172 100  
171 34.8 30.0 45.0  
170 24.0 19.5 29.3

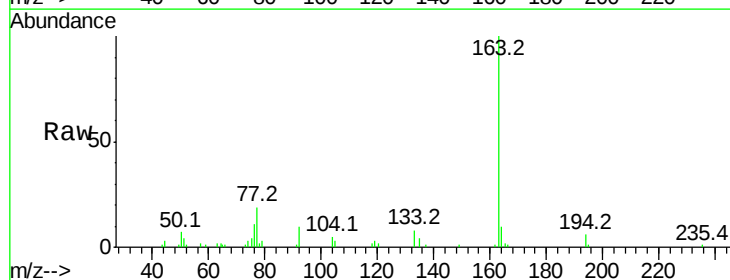


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

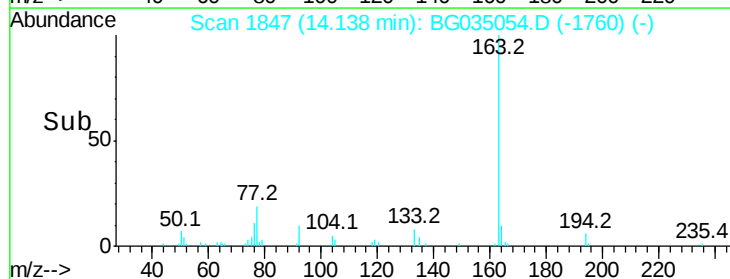
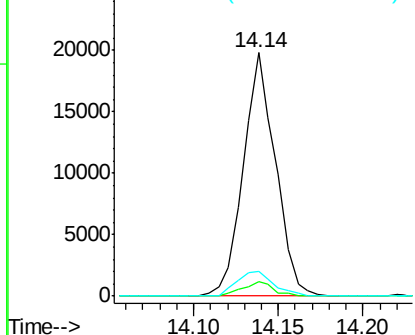


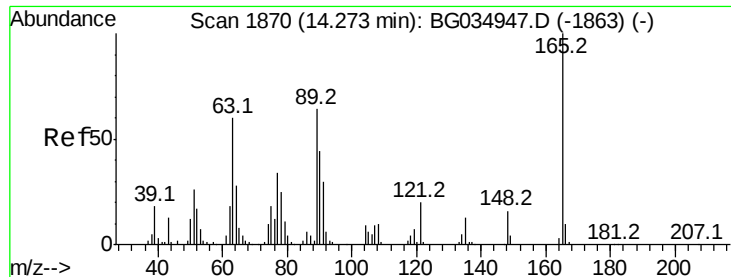
#49  
Dimethylphthalate  
Concen: 2.292 ng  
RT: 14.14 min Scan# 1847  
Delta R.T. -0.02 min  
Lab File: BG035054.D  
Acq: 12 Jun 2018 5:51

Tgt Ion:163 Resp: 26298  
Ion Ratio Lower Upper  
163 100  
194 6.1 3.4 5.2#  
164 10.3 8.2 12.4



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

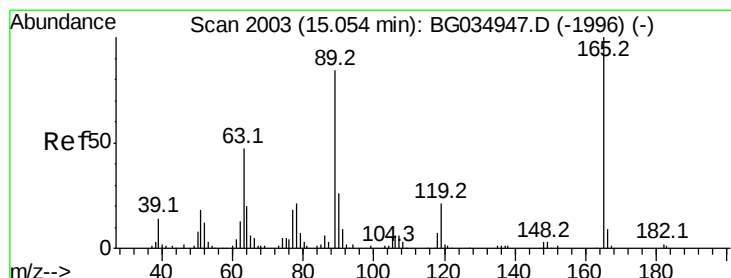
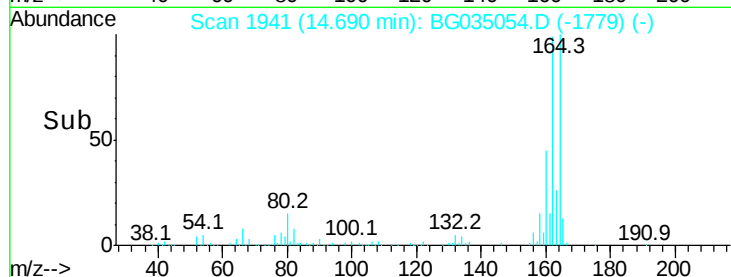
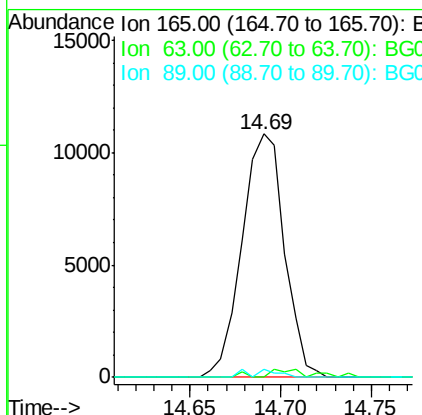
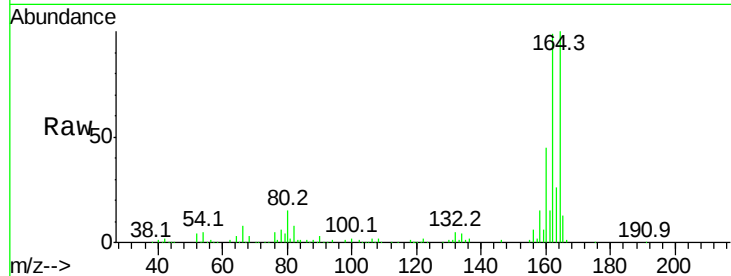




#50  
 2,6-Dinitrotoluene  
 Concen: 8.398 ng  
 RT: 14.69 min Scan# 1941  
 Delta R.T. 0.42 min  
 Lab File: BG035054.D  
 Acq: 12 Jun 2018 5:51

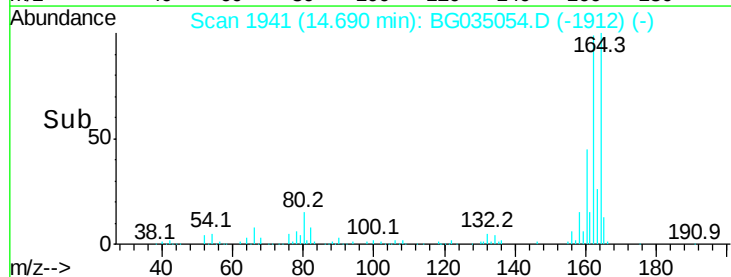
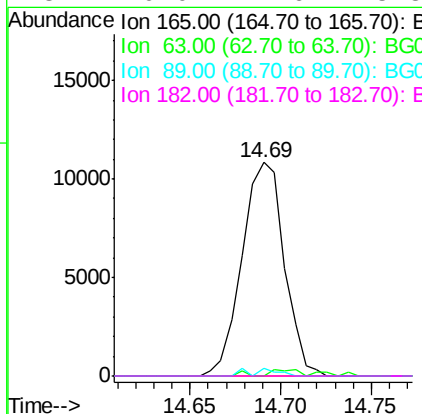
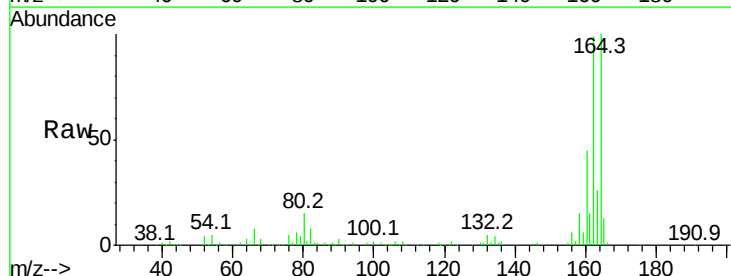
Instrument :  
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 ClientSampleId :

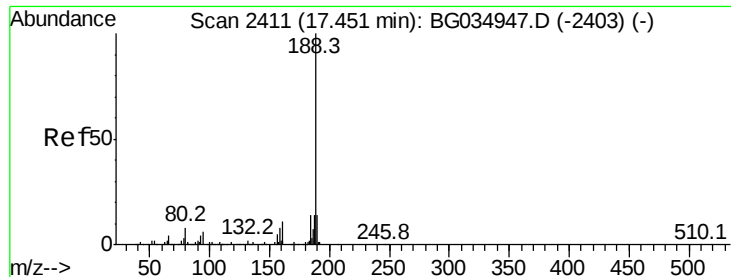
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 52.7  | 79.1# |
| 89      | 3.4   | 49.2  | 73.8# |



#56  
 2,4-Dinitrotoluene  
 Concen: 6.322 ng  
 RT: 14.69 min Scan# 1941  
 Delta R.T. -0.36 min  
 Lab File: BG035054.D  
 Acq: 12 Jun 2018 5:51

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 165     | 100   |       |        |
| 63      | 0.0   | 42.0  | 63.0#  |
| 89      | 3.4   | 66.9  | 100.3# |
| 182     | 0.0   | 2.6   | 3.8#   |

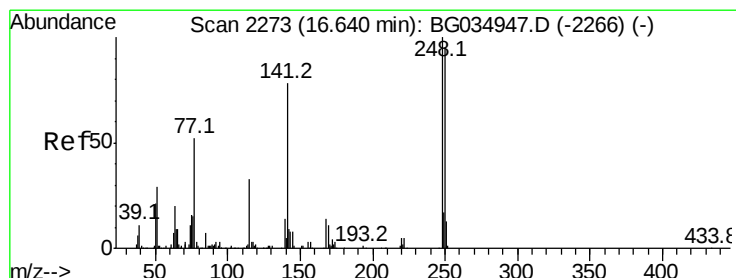
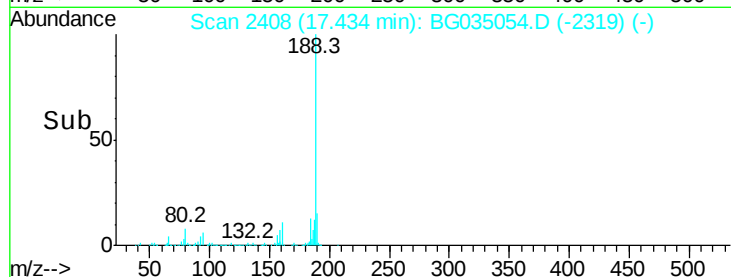
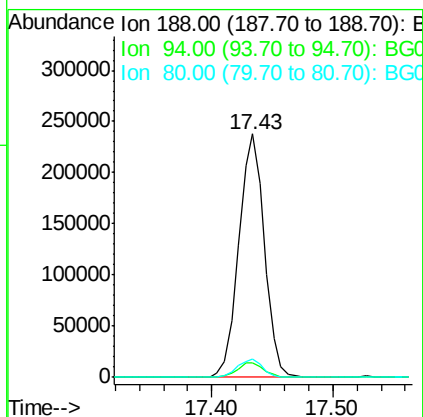
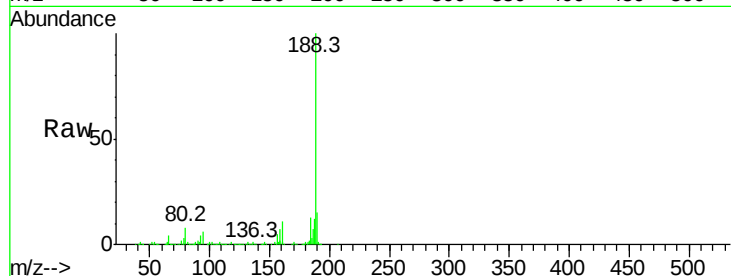




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.43 min Scan# 2408  
Delta R.T. -0.01 min  
Lab File: BG035054.D  
Acq: 12 Jun 2018 5:51

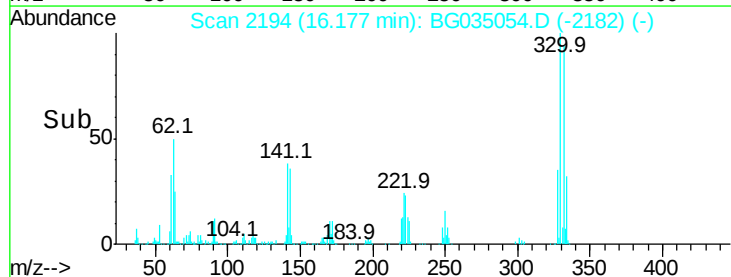
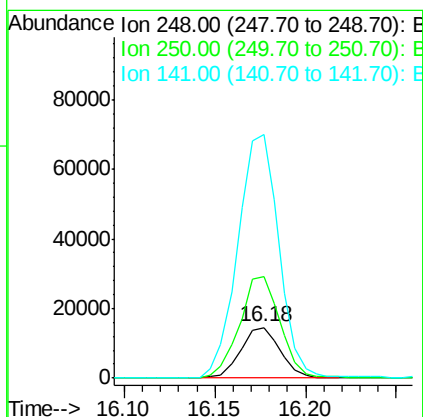
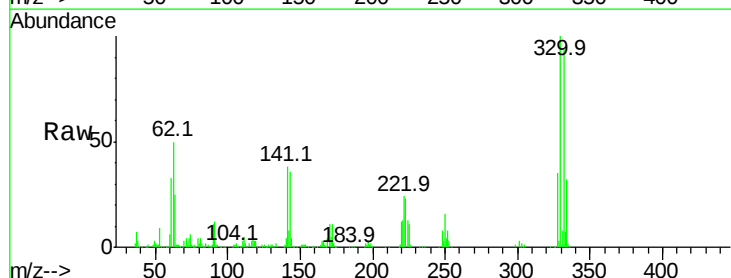
Instrument :  
BNA\_M  
ClientSampleId :

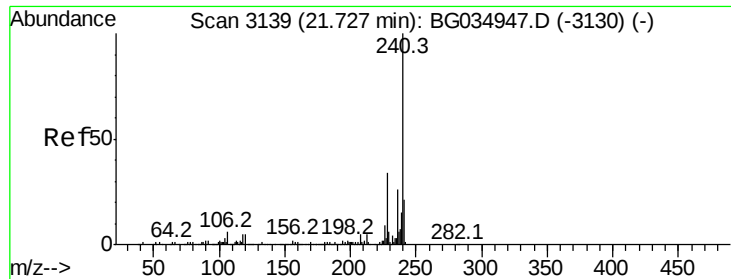
Tot Ion:188 Resp: 350356  
Ion Ratio Lower Upper  
188 100  
94 6.2 6.9 10.3#  
80 7.8 7.7 11.5



#66  
4-Bromophenyl-phenylether  
Concen: 5.241 ng  
RT: 16.18 min Scan# 2194  
Delta R.T. -0.46 min  
Lab File: BG035054.D  
Acq: 12 Jun 2018 5:51

Tgt Ion:248 Resp: 22113  
Ion Ratio Lower Upper  
248 100  
250 198.7 77.1 115.7#  
141 477.9 50.8 76.2#





#75

Chrysene-d12

Concen: 20.000 ng

RT: 21.70 min Scan# 3134

Delta R.T. -0.02 min

Lab File: BG035054.D

Acq: 12 Jun 2018 5:51

Instrument :

BNA\_M

ClientSampleId :

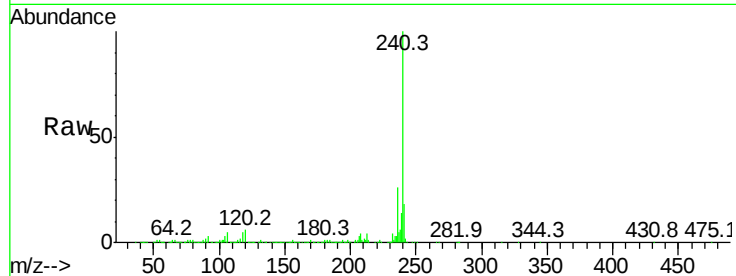
Tot Ion:240 Resp: 379898

Ion Ratio Lower Upper

240 100

120 5.9 6.8 10.2#

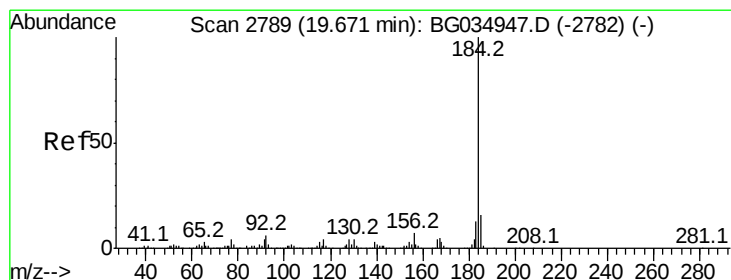
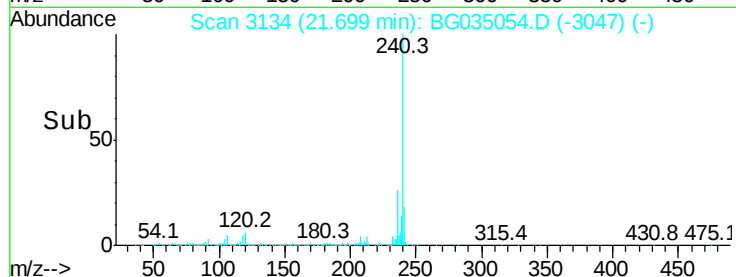
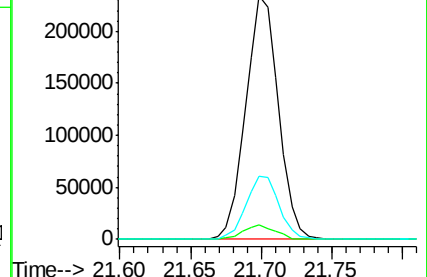
236 25.8 20.9 31.3



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: 2.045 ng

RT: 20.04 min Scan# 2852

Delta R.T. 0.38 min

Lab File: BG035054.D

Acq: 12 Jun 2018 5:51

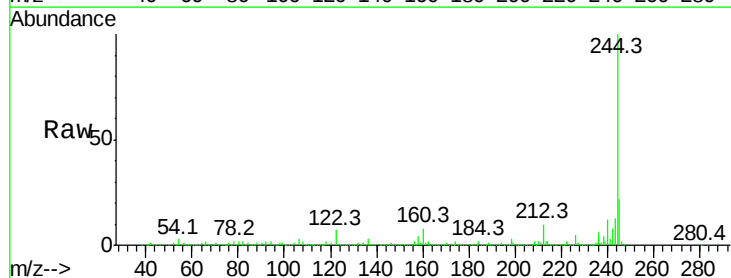
Tgt Ion:184 Resp: 28903

Ion Ratio Lower Upper

184 100

185 20.6 11.1 16.7#

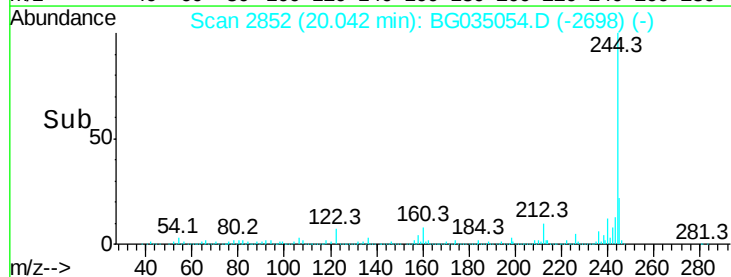
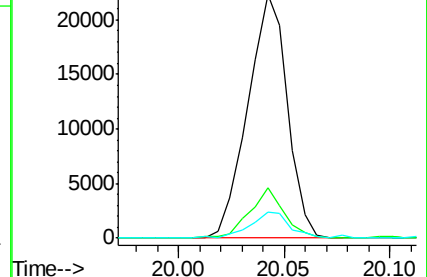
183 10.8 10.6 16.0

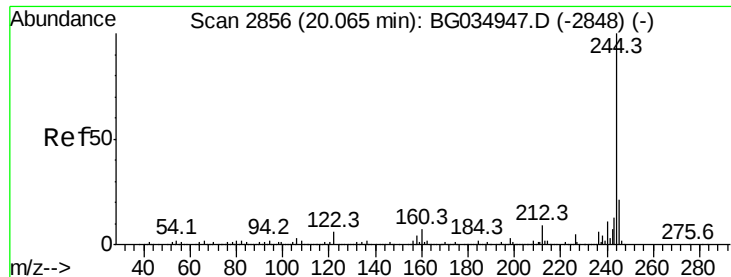


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Terphenyl-d14

Concen: 90.199 ng

RT: 20.04 min Scan# 2852

Delta R.T. -0.01 min

Lab File: BG035054.D

Acq: 12 Jun 2018 5:51

Instrument :

BNA\_M

ClientSampleId :

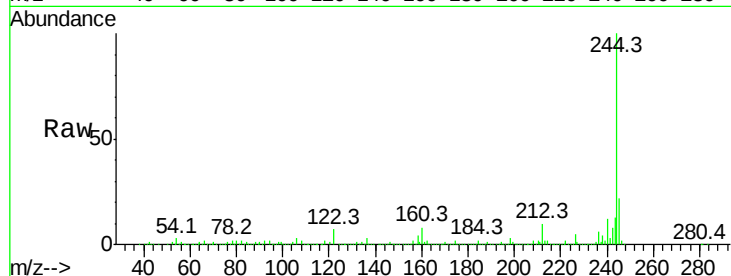
Tot Ion:244 Resp: 1635878

Ion Ratio Lower Upper

244 100

212 9.6 5.8 8.8#

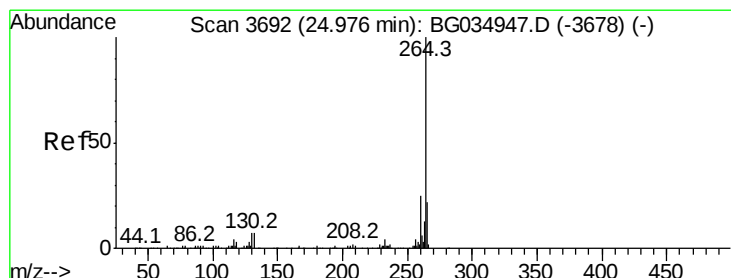
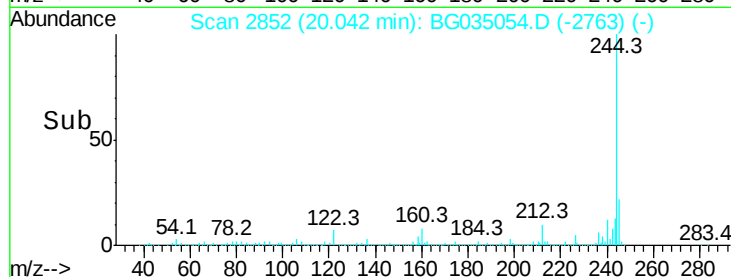
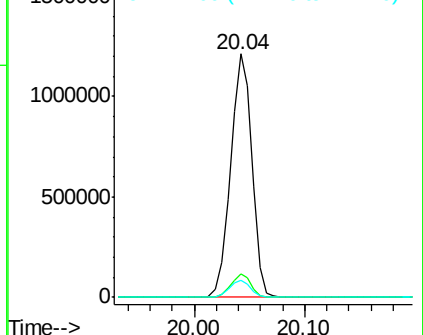
122 6.9 7.0 10.4#



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

Perylene-d12

Concen: 20.000 ng

RT: 24.94 min Scan# 3685

Delta R.T. -0.02 min

Lab File: BG035054.D

Acq: 12 Jun 2018 5:51

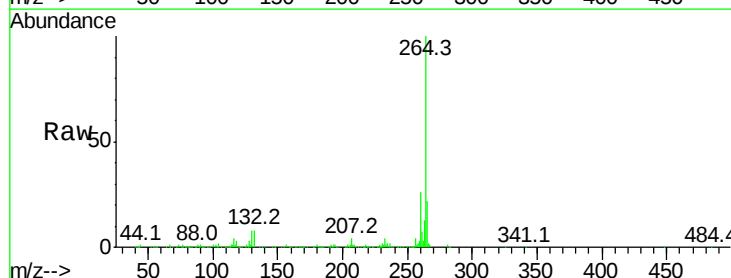
Tgt Ion:264 Resp: 371670

Ion Ratio Lower Upper

264 100

260 25.8 17.4 26.0

265 21.7 17.7 26.5



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

