

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG091118\  
 Data File : BG036660.D  
 Acq On : 11 Sep 2018 17:32  
 Operator : JU/SJ  
 Sample : J4841-03  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Sep 11 18:46:18 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 31 13:03:20 2018  
 Response via : Initial Calibration

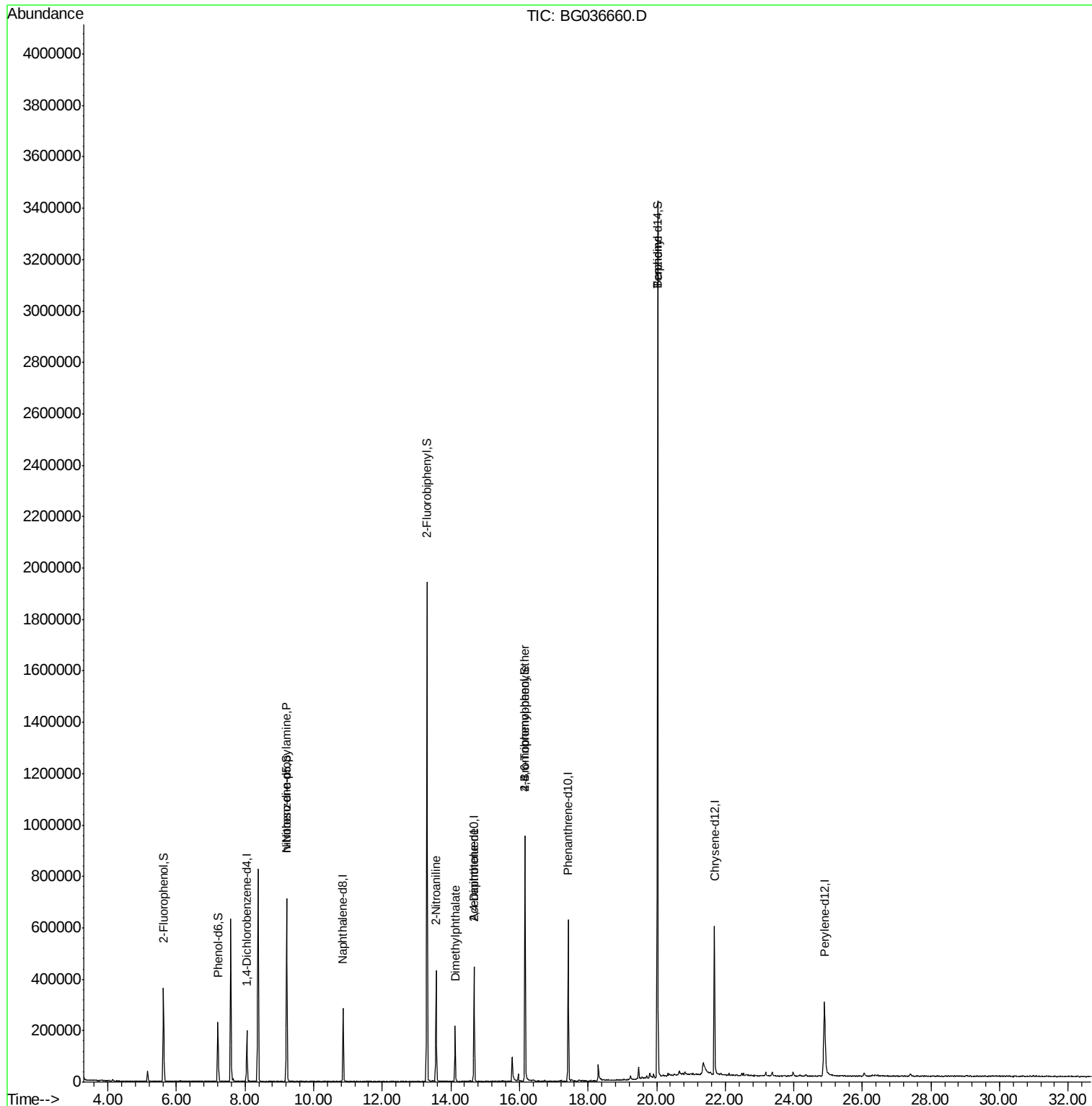
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.05  | 152  | 56610    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.86 | 136  | 236337   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 14.68 | 164  | 152929   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 17.42 | 188  | 390044   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 21.68 | 240  | 393758   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 24.89 | 264  | 374902   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.62  | 112  | 156095   | 43.74  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.20  | 99   | 137958   | 27.00  | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 9.21  | 82   | 429007   | 98.49  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.16 | 330  | 184054   | 100.86 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 13.30 | 172  | 986651   | 92.12  | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.03 | 244  | 1589587  | 94.36  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.21  | 70   | 57326    | 15.012 | ng    | # 72     |
| 47) 2-Nitroaniline             | 13.57 | 65   | 7671     | 2.521  | ng    | # 20     |
| 49) Dimethylphthalate          | 14.12 | 163  | 145486   | 11.650 | ng    | # 98     |
| 56) 2,4-Dinitrotoluene         | 14.68 | 165  | 18812    | 5.617  | ng    | # 21     |
| 66) 4-Bromophenyl-phenylether  | 16.16 | 248  | 12614    | 2.762  | ng    | # 1      |
| 76) Benzidine                  | 20.03 | 184  | 27837    | 2.216  | ng    | # 93     |

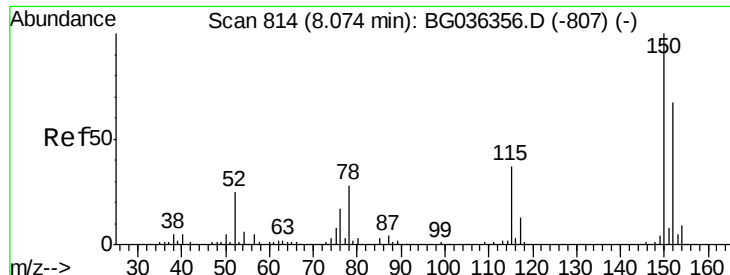
(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG091118\  
Data File : BG036660.D  
Acq On    : 11 Sep 2018  17:32  
Operator  : JU/SJ  
Sample    : J4841-03  
Misc      :  
ALS Vial  : 5      Sample Multiplier: 1
```

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Sep 11 18:46:18 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082318.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Aug 31 13:03:20 2018  
Response via : Initial Calibration



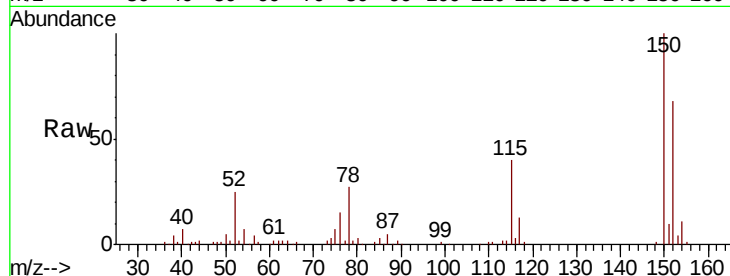


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.05 min Scan# 811  
Delta R.T. -0.01 min  
Lab File: BG036660.D  
Acq: 11 Sep 2018 17:32

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 147.9 | 119.5 | 179.3 |
| 115     | 58.7  | 44.5  | 66.7  |

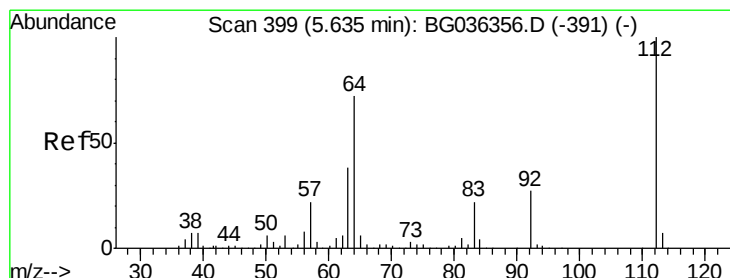
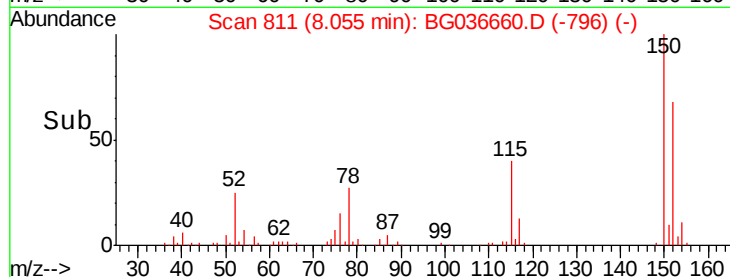
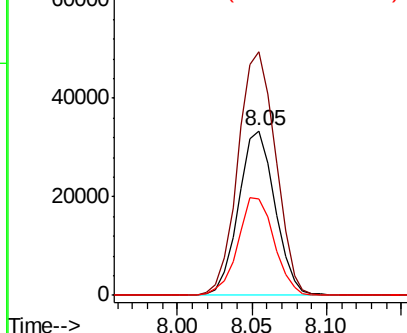


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

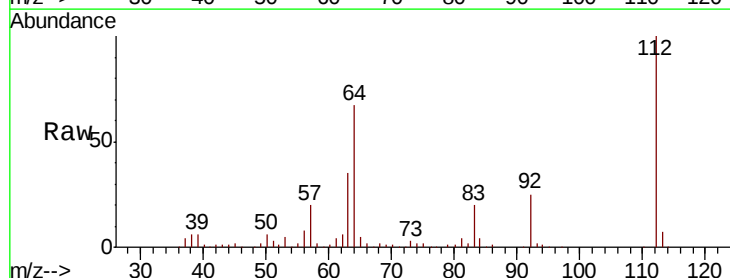
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 43.740 ng  
RT: 5.62 min Scan# 397  
Delta R.T. -0.00 min  
Lab File: BG036660.D  
Acq: 11 Sep 2018 17:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 66.7  | 57.2  | 85.8  |
| 63      | 34.7  | 30.8  | 46.2  |

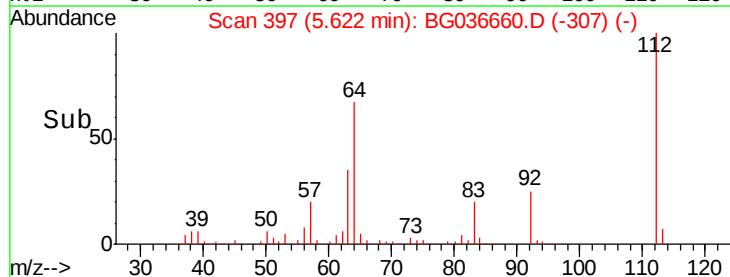
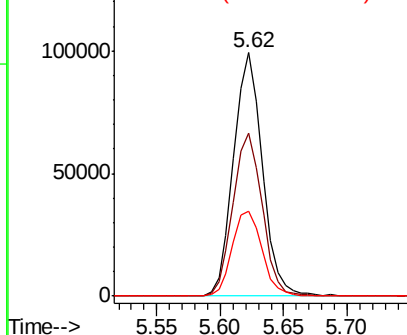


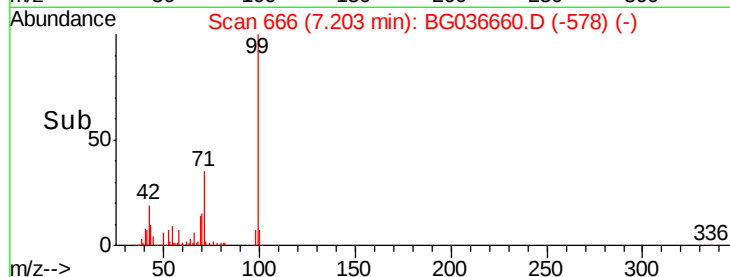
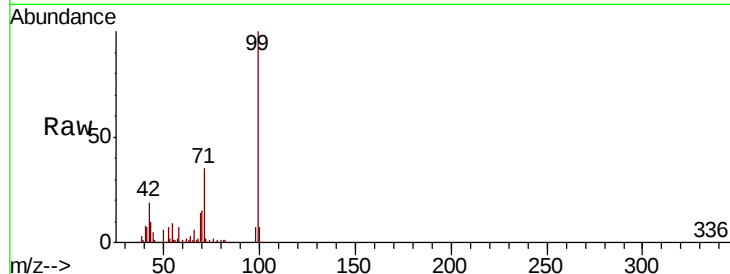
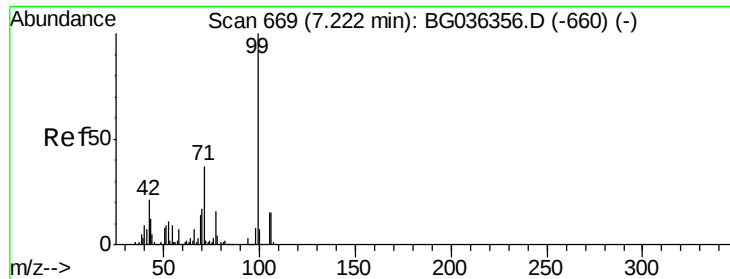
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG

Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 27.000 ng

RT: 7.20 min Scan# 666

Delta R.T. -0.01 min

Lab File: BG036660.D

Acq: 11 Sep 2018 17:32

Instrument :

BNA\_G

ClientSampleId :

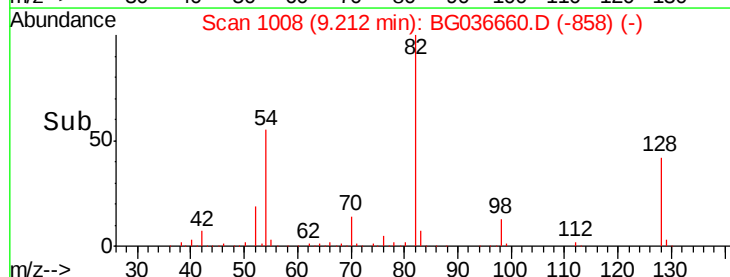
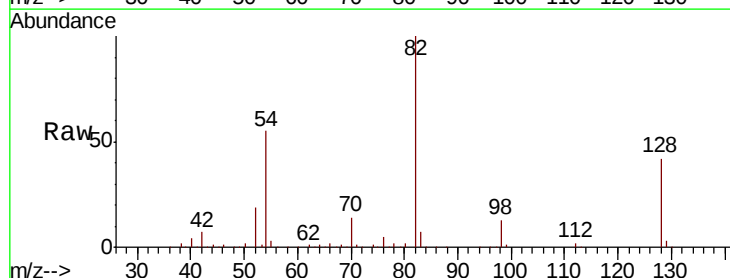
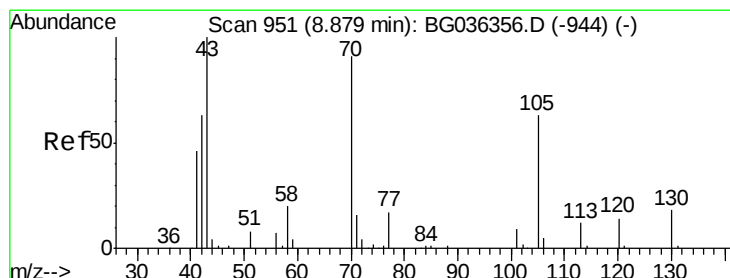
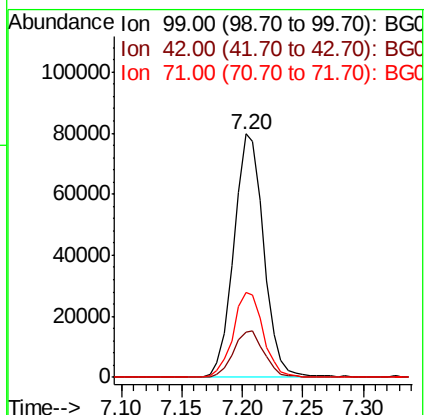
Tot Ion: 99 Resp: 137958

Ion Ratio Lower Upper

99 100

42 18.6 16.5 24.7

71 34.9 29.4 44.2



#19

n-Nitroso-di-n-propylamine

Concen: 15.012 ng

RT: 9.21 min Scan# 1008

Delta R.T. 0.35 min

Lab File: BG036660.D

Acq: 11 Sep 2018 17:32

Tgt Ion: 70 Resp: 57326

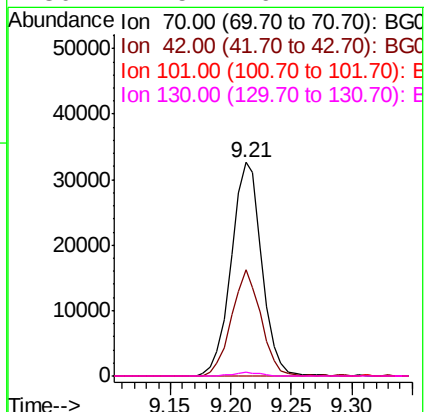
Ion Ratio Lower Upper

70 100

42 49.8 56.2 84.4#

101 0.0 7.8 11.6#

130 1.5 16.2 24.2#

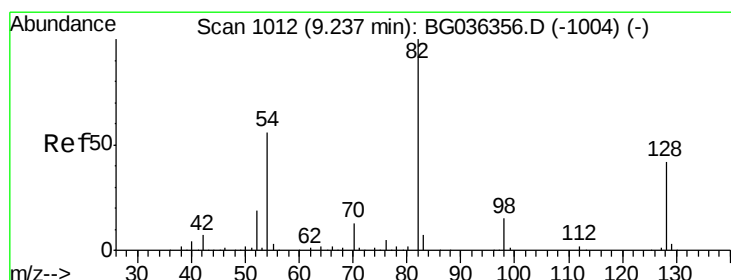
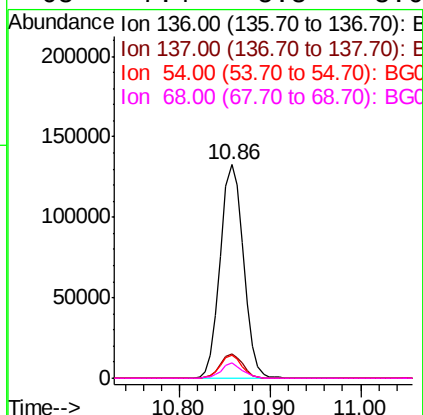
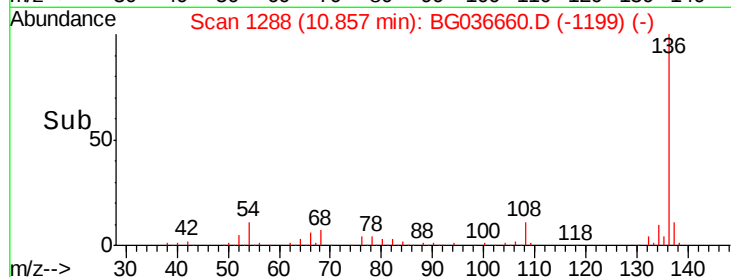
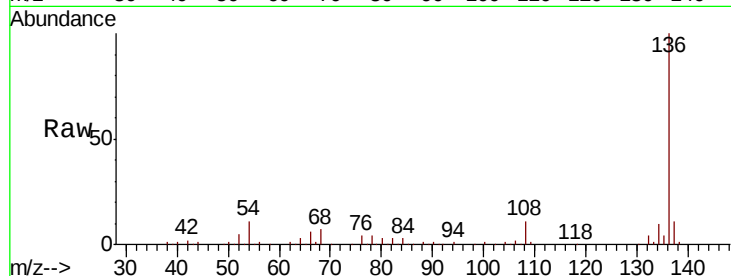




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.86 min Scan# 1288  
Delta R.T. -0.01 min  
Lab File: BG036660.D  
Acq: 11 Sep 2018 17:32

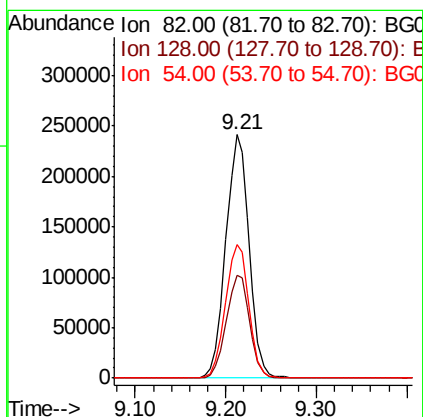
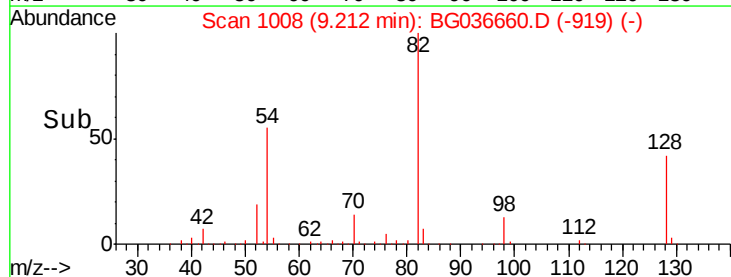
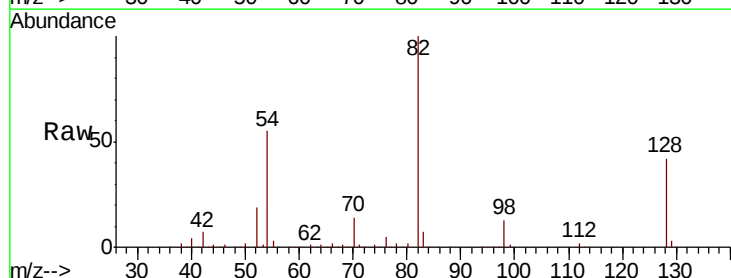
Instrument :  
BNA\_G  
ClientSampleId :

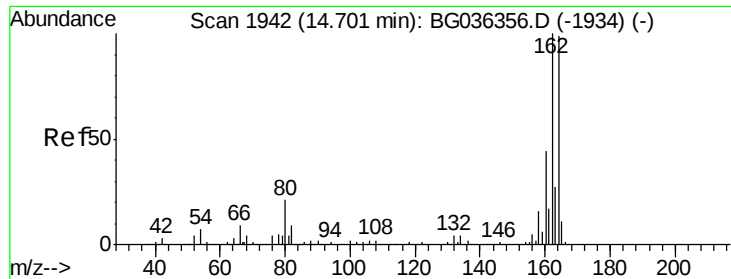
|             |       |        |  |
|-------------|-------|--------|--|
| Tot Ion:136 | Resp: | 236337 |  |
| Ion Ratio   | Lower | Upper  |  |
| 136 100     |       |        |  |
| 137 11.2    | 8.8   | 13.2   |  |
| 54 10.8     | 9.2   | 13.8   |  |
| 68 7.4      | 5.8   | 8.6    |  |



#23  
Nitrobenzene-d5  
Concen: 98.489 ng  
RT: 9.21 min Scan# 1008  
Delta R.T. -0.01 min  
Lab File: BG036660.D  
Acq: 11 Sep 2018 17:32

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 82 | Resp: | 429007 |
| Ion | Ratio   | Lower | Upper  |
| 82  | 100     |       |        |
| 128 | 42.4    | 33.3  | 49.9   |
| 54  | 54.7    | 45.1  | 67.7   |





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.68 min Scan# 1938

Delta R.T. -0.01 min

Lab File: BG036660.D

Acq: 11 Sep 2018 17:32

Instrument :

BNA\_G

ClientSampleId :

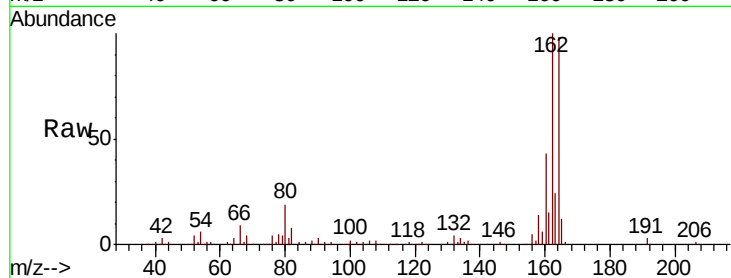
Tot Ion:164 Resp: 152929

Ion Ratio Lower Upper

164 100

162 101.7 80.7 121.1

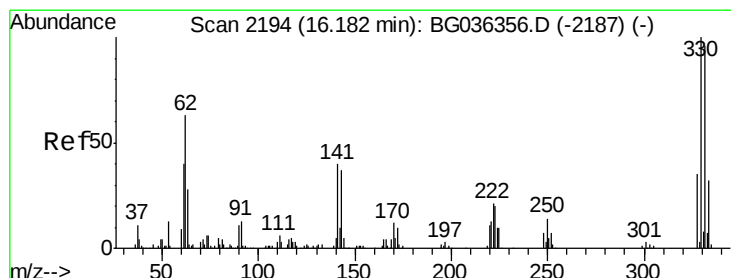
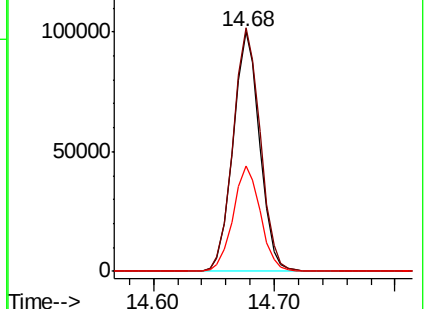
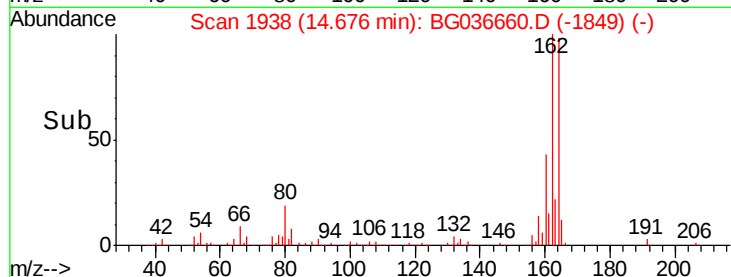
160 44.1 35.3 52.9



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: 100.863 ng

RT: 16.16 min Scan# 2191

Delta R.T. -0.01 min

Lab File: BG036660.D

Acq: 11 Sep 2018 17:32

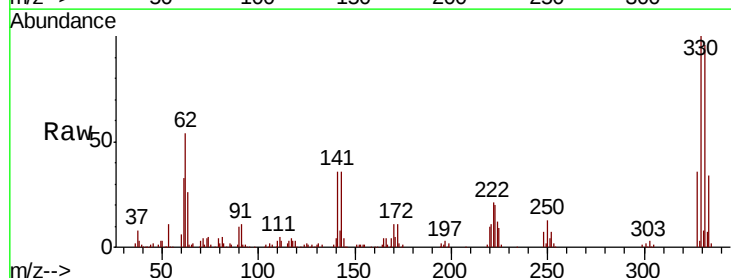
Tgt Ion:330 Resp: 184054

Ion Ratio Lower Upper

330 100

332 97.3 75.4 113.2

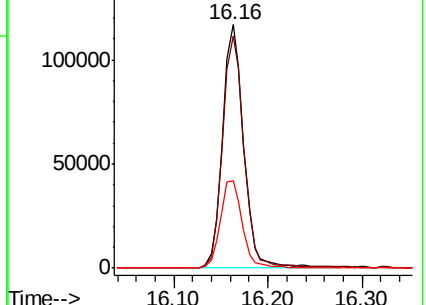
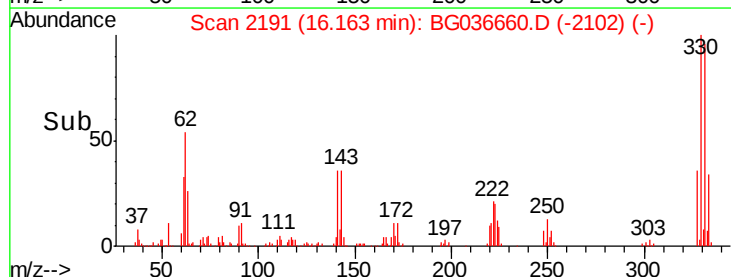
141 37.3 30.7 46.1



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

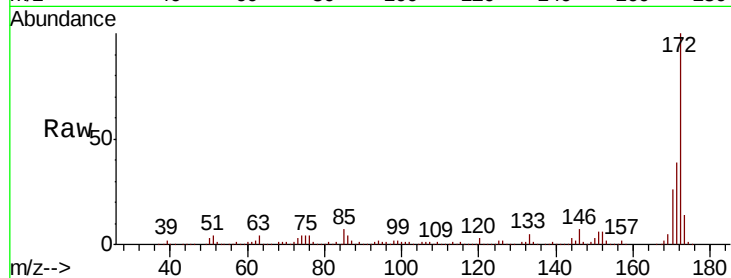




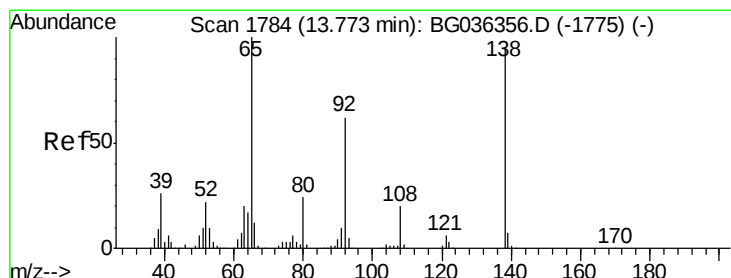
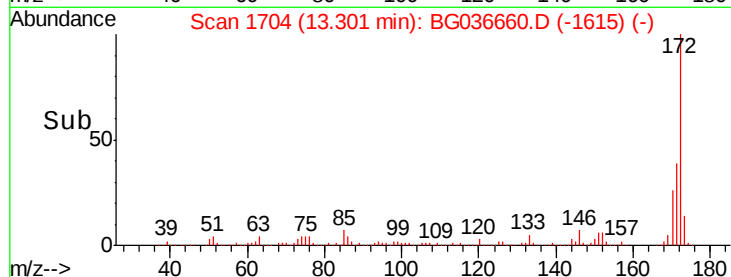
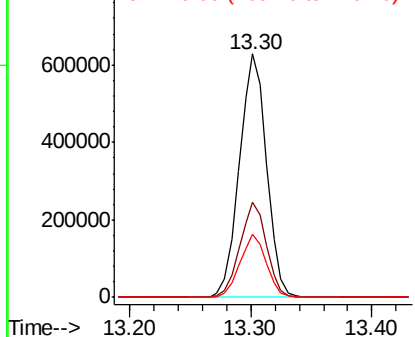
#44  
 2-Fluorobiphenyl  
 Concen: 92.118 ng  
 RT: 13.30 min Scan# 1704  
 Delta R.T. -0.01 min  
 Lab File: BG036660.D  
 Acq: 11 Sep 2018 17:32

Instrument :  
 BNA\_G  
 ClientSampled :

Tot Ion:172 Resp: 986651  
 Ion Ratio Lower Upper  
 172 100  
 171 39.0 31.3 46.9  
 170 25.7 21.0 31.6

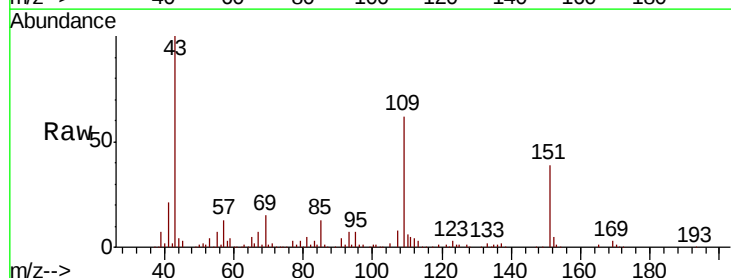


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

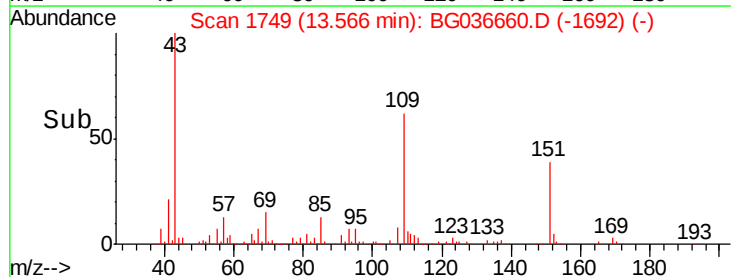
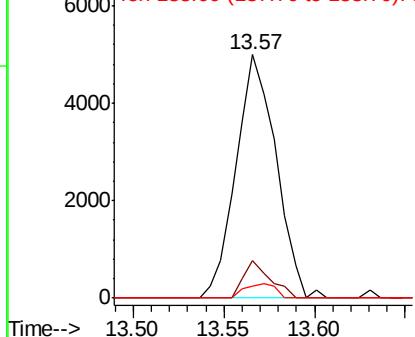


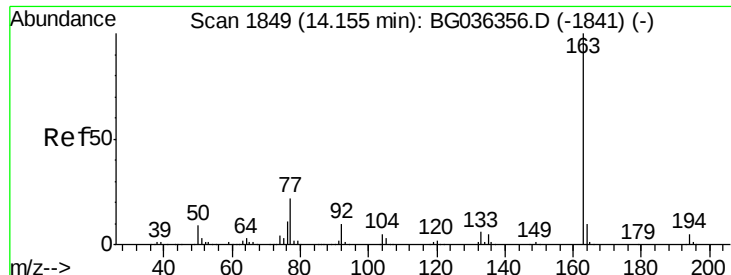
#47  
 2-Nitroaniline  
 Concen: 2.521 ng  
 RT: 13.57 min Scan# 1749  
 Delta R.T. -0.20 min  
 Lab File: BG036660.D  
 Acq: 11 Sep 2018 17:32

Tgt Ion: 65 Resp: 7671  
 Ion Ratio Lower Upper  
 65 100  
 92 15.2 49.9 74.9#  
 138 5.0 76.2 114.4#



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

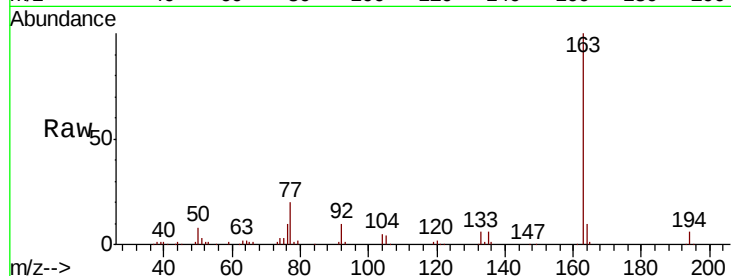




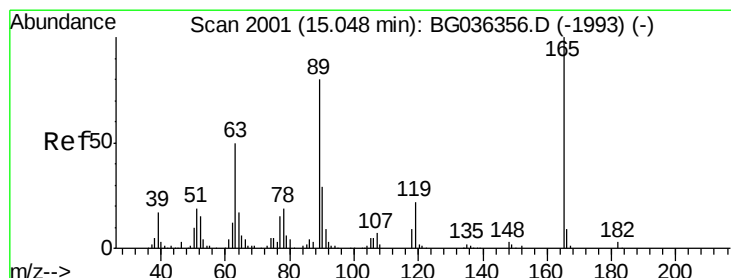
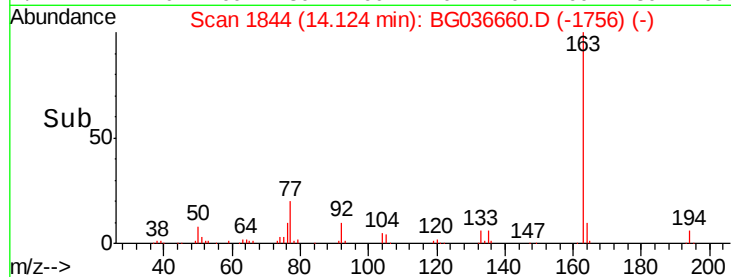
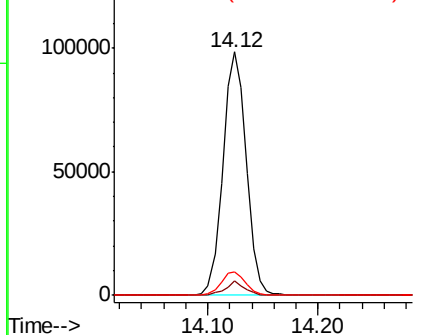
#49  
Dimethylphthalate  
Concen: 11.650 ng  
RT: 14.12 min Scan# 1844  
Delta R.T. -0.01 min  
Lab File: BG036660.D  
Acq: 11 Sep 2018 17:32

Instrument :  
BNA\_G  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 5.9   | 4.0   | 6.0   |
| 164     | 9.6   | 8.1   | 12.1  |

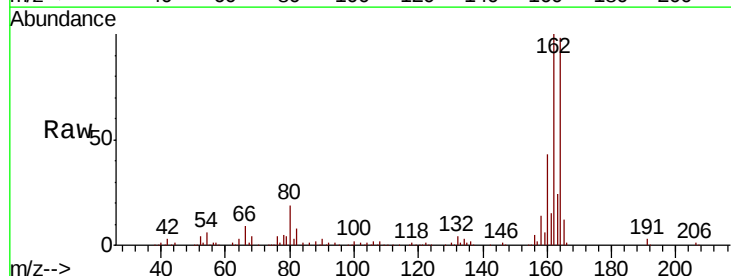


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

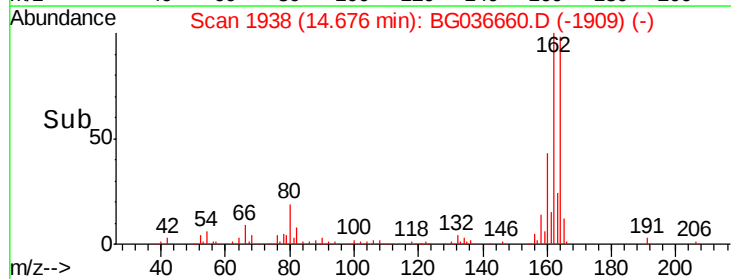
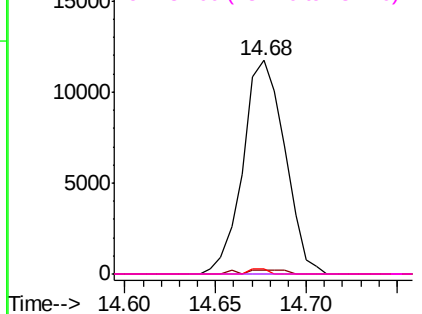


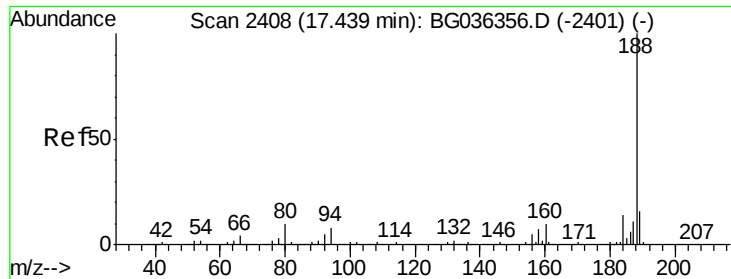
#56  
2,4-Dinitrotoluene  
Concen: 5.617 ng  
RT: 14.68 min Scan# 1938  
Delta R.T. -0.36 min  
Lab File: BG036660.D  
Acq: 11 Sep 2018 17:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.6   | 40.1  | 60.1# |
| 89      | 2.4   | 63.7  | 95.5# |
| 182     | 0.0   | 2.5   | 3.7#  |



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

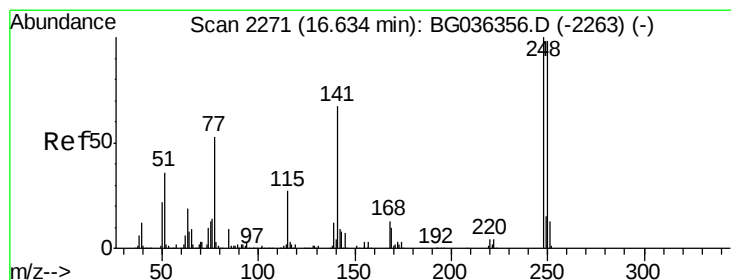
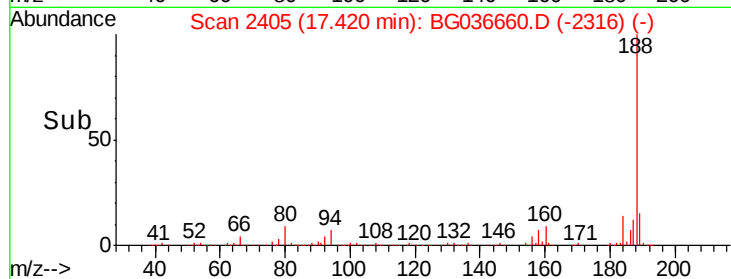
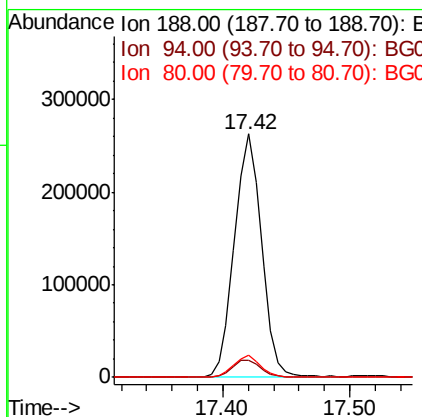
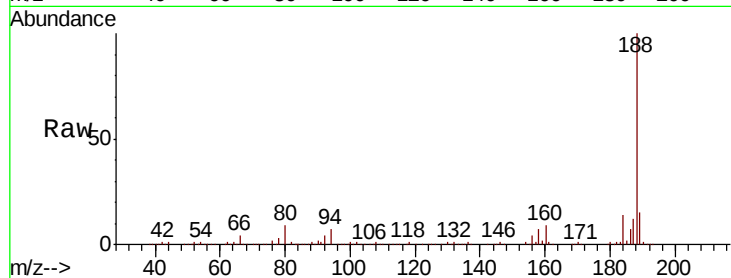




#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.42 min Scan# 2405  
 Delta R.T. -0.01 min  
 Lab File: BG036660.D  
 Acq: 11 Sep 2018 17:32

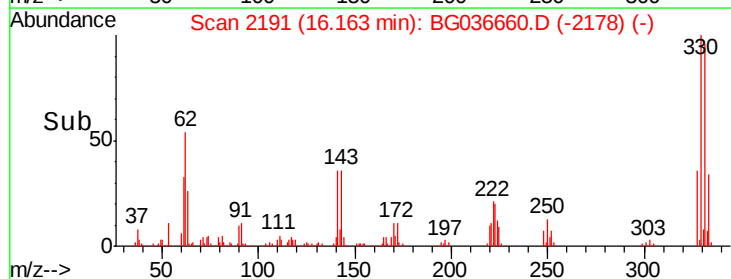
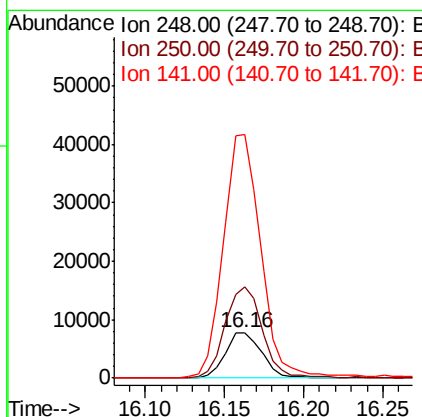
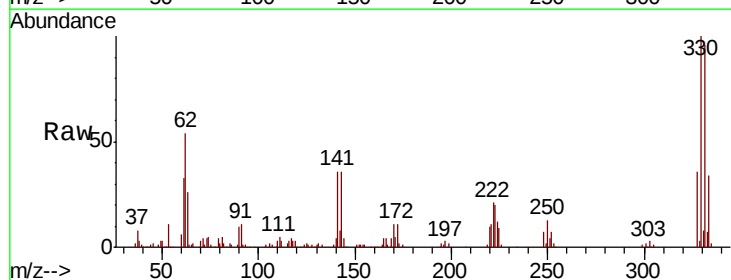
Instrument :  
 BNA\_G  
 ClientSampleId :

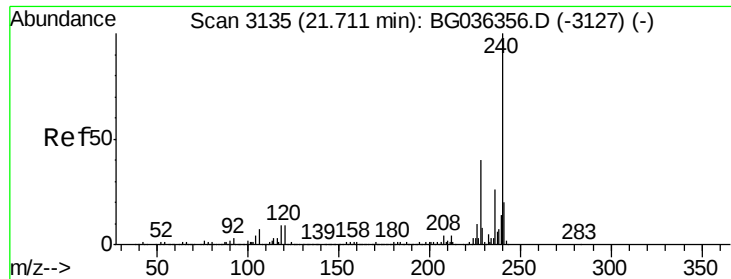
Tot Ion:188 Resp: 390044  
 Ion Ratio Lower Upper  
 188 100  
 94 7.1 6.7 10.1  
 80 8.9 8.1 12.1



#66  
 4-Bromophenyl-phenylether  
 Concen: 2.762 ng  
 RT: 16.16 min Scan# 2191  
 Delta R.T. -0.46 min  
 Lab File: BG036660.D  
 Acq: 11 Sep 2018 17:32

Tgt Ion:248 Resp: 12614  
 Ion Ratio Lower Upper  
 248 100  
 250 200.0 78.1 117.1#  
 141 532.0 53.7 80.5#

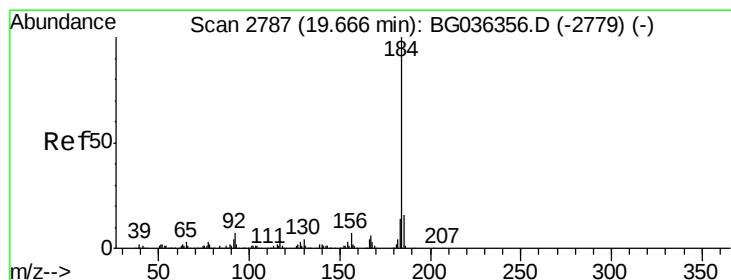
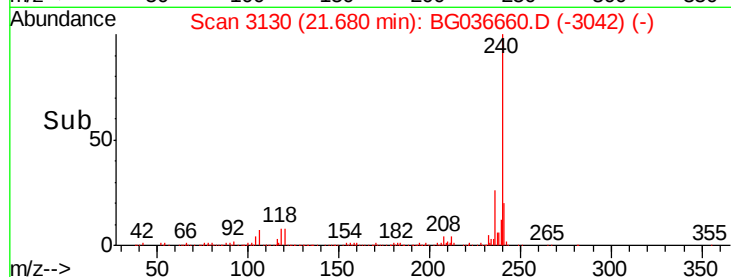
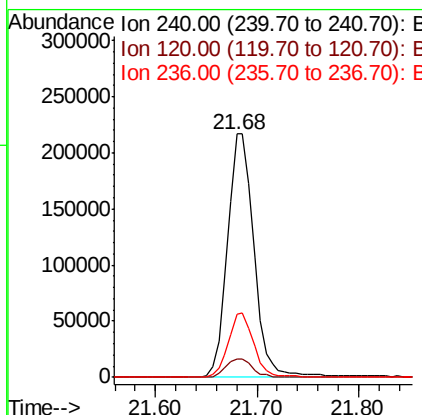
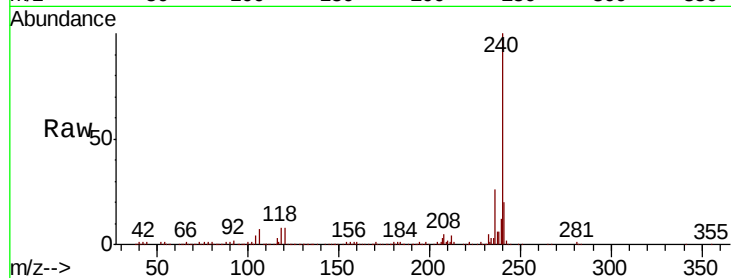




#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.68 min Scan# 3130  
 Delta R.T. -0.01 min  
 Lab File: BG036660.D  
 Acq: 11 Sep 2018 17:32

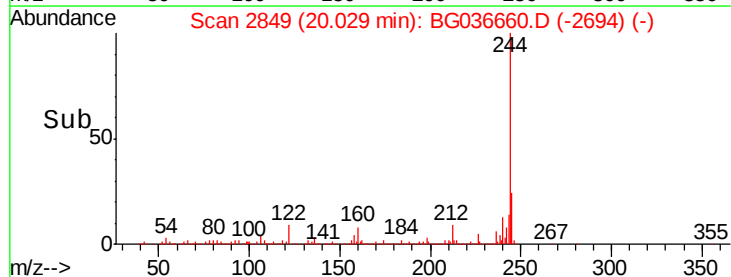
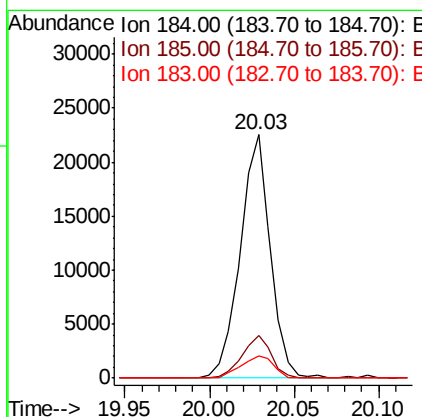
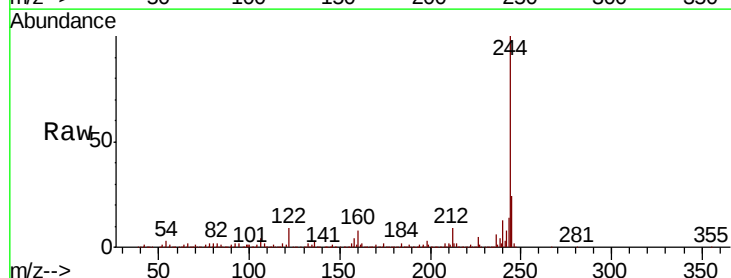
Instrument :  
 BNA\_G  
 ClientSampled :

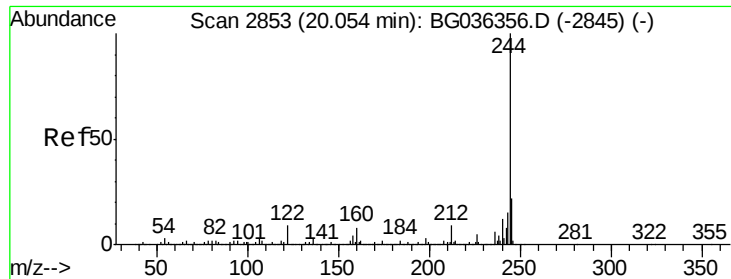
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 7.6   | 6.9   | 10.3  |
| 236     | 26.0  | 21.2  | 31.8  |



#76  
 Benzidine  
 Concen: 2.216 ng  
 RT: 20.03 min Scan# 2849  
 Delta R.T. 0.38 min  
 Lab File: BG036660.D  
 Acq: 11 Sep 2018 17:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 185     | 17.5  | 12.6  | 18.8  |
| 183     | 9.1   | 10.9  | 16.3  |





#78

Terphenyl-d14

Concen: 94.358 ng

RT: 20.03 min Scan# 2849

Delta R.T. -0.00 min

Lab File: BG036660.D

Acq: 11 Sep 2018 17:32

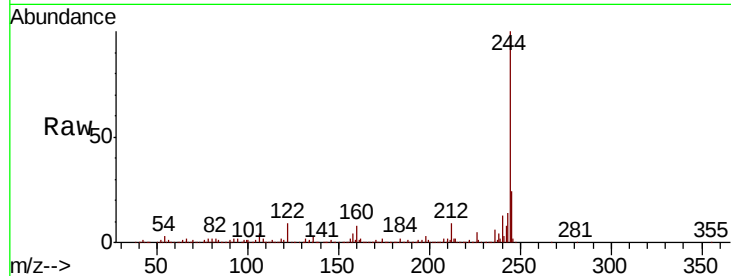
Instrument :

BNA\_G

ClientSampled :

Tot Ion:244 Resp: 1589587

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 9.4   | 7.0   | 10.6  |
| 122 | 9.1   | 7.1   | 10.7  |

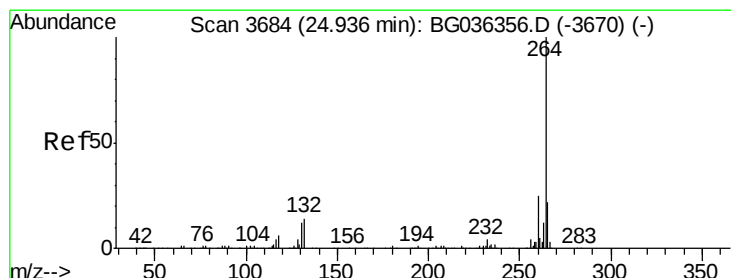
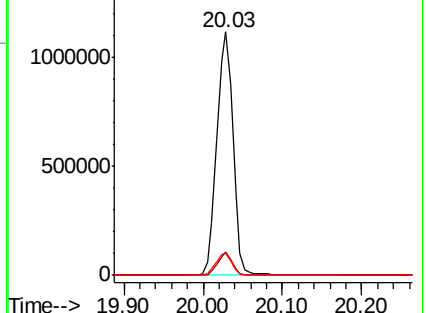
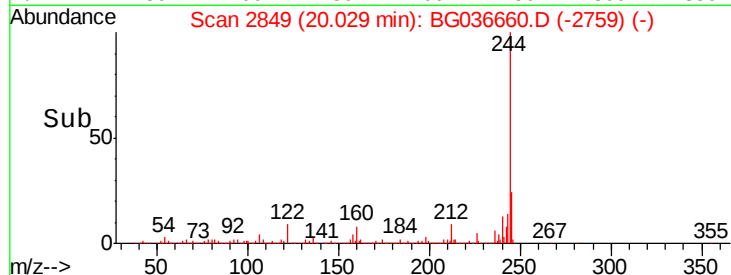


Abundance

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: 24.89 min Scan# 3677

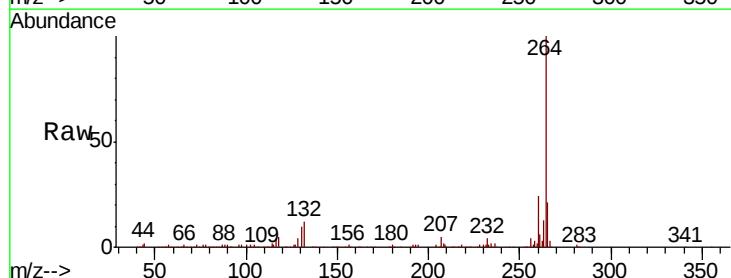
Delta R.T. -0.01 min

Lab File: BG036660.D

Acq: 11 Sep 2018 17:32

Tgt Ion:264 Resp: 374902

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.1  | 19.6  | 29.4  |
| 265 | 21.3  | 17.4  | 26.0  |



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

