

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG091118\  
 Data File : BG036658.D  
 Acq On : 11 Sep 2018 16:15  
 Operator : JU/SJ  
 Sample : J4841-01  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Sep 11 17:37:56 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

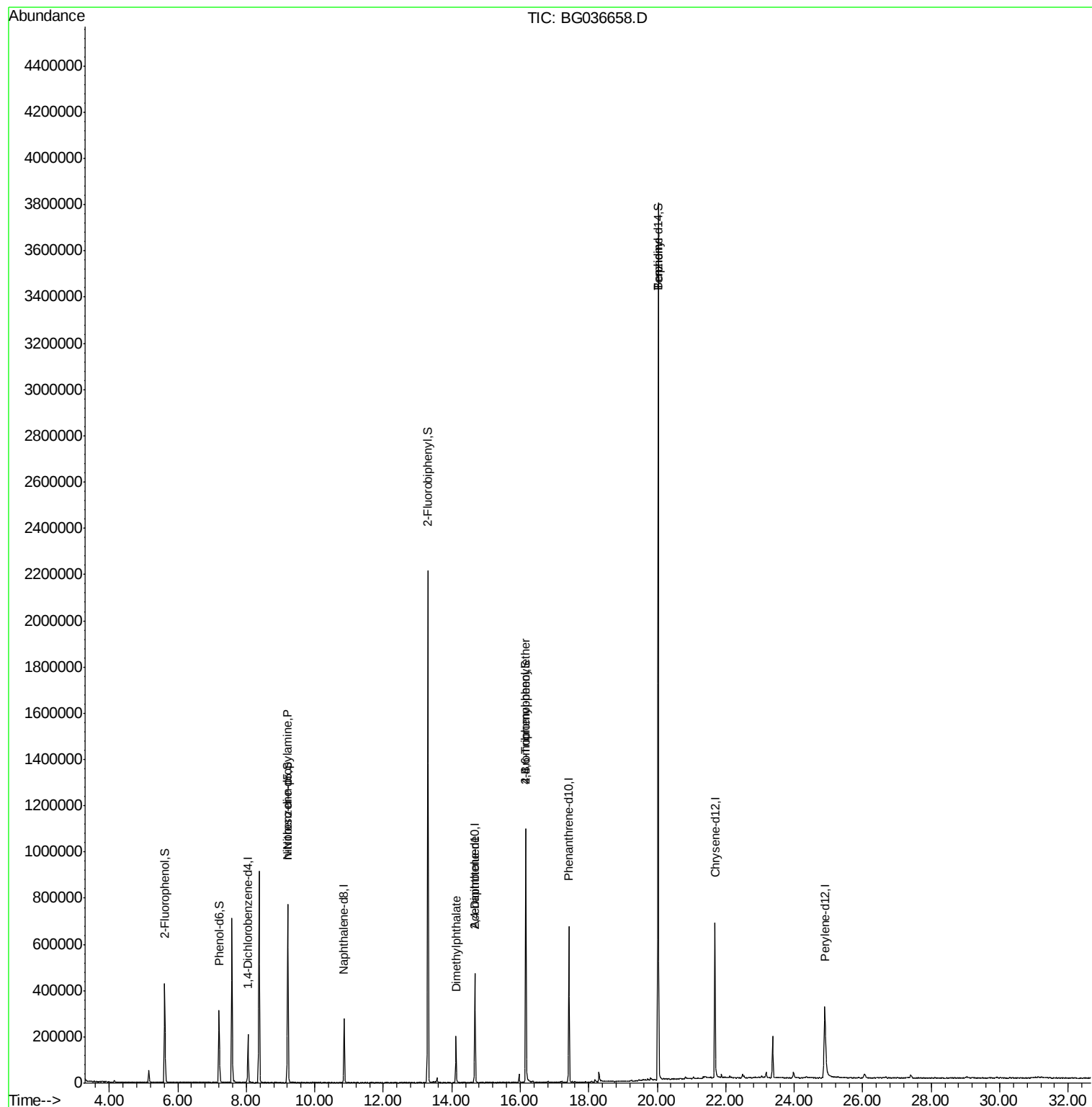
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 8.05  | 152  | 58690    | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8             | 10.86 | 136  | 242370   | 20.00  | ng    | 0.00        |
| 38) Acenaphthene-d10           | 14.68 | 164  | 164990   | 20.00  | ng    | 0.00        |
| 63) Phenanthrene-d10           | 17.42 | 188  | 424335   | 20.00  | ng    | 0.00        |
| 75) Chrysene-d12               | 21.68 | 240  | 439027   | 20.00  | ng    | 0.00        |
| 86) Perylene-d12               | 24.89 | 264  | 405331   | 20.00  | ng    | 0.00        |
| System Monitoring Compounds    |       |      |          |        |       |             |
| 5) 2-Fluorophenol              | 5.62  | 112  | 182515   | 49.33  | ng    | 0.00        |
| 7) Phenol-d6                   | 7.21  | 99   | 182152   | 34.39  | ng    | 0.00        |
| 23) Nitrobenzene-d5            | 9.21  | 82   | 483191   | 108.17 | ng    | 0.00        |
| 41) 2,4,6-Tribromophenol       | 16.16 | 330  | 214173   | 108.79 | ng    | 0.00        |
| 44) 2-Fluorobiphenyl           | 13.30 | 172  | 1141525  | 98.79  | ng    | 0.00        |
| 78) Terphenyl-d14              | 20.03 | 244  | 1825836  | 97.21  | ng    | 0.00        |
| Target Compounds               |       |      |          |        |       |             |
| 19) n-Nitroso-di-n-propylamine | 9.21  | 70   | 63246    | 15.975 | ng    | Qvalue # 71 |
| 49) Dimethylphthalate          | 14.12 | 163  | 137030   | 10.171 | ng    | 99          |
| 56) 2,4-Dinitrotoluene         | 14.68 | 165  | 20695    | 5.728  | ng    | # 21        |
| 66) 4-Bromophenyl-phenylether  | 16.16 | 248  | 15859    | 3.192  | ng    | # 1         |
| 76) Benzidine                  | 20.03 | 184  | 32506    | 2.321  | ng    | # 91        |

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

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Misc :  
ALS Vial : 3 Sample Multiplier: 1

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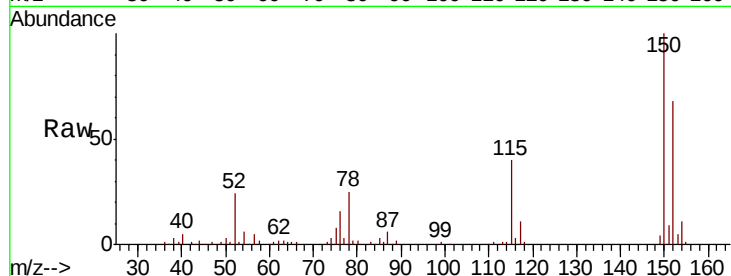


#1

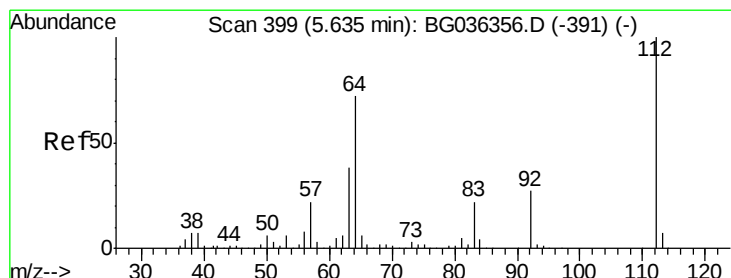
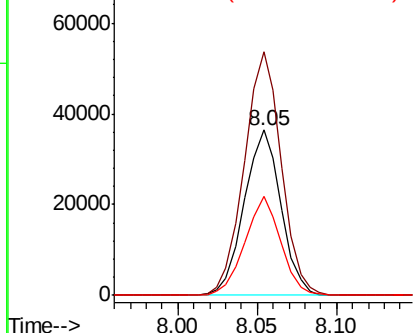
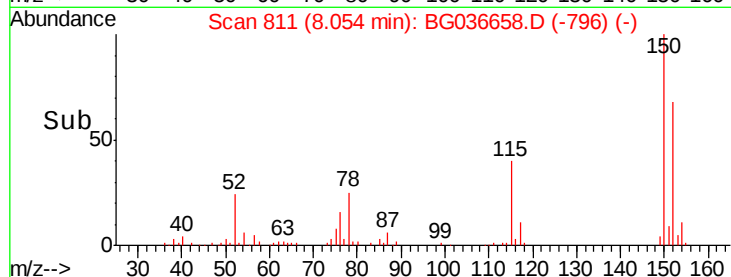
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.05 min Scan# 811  
Delta R.T. -0.01 min  
Lab File: BG036658.D  
Acq: 11 Sep 2018 16:15

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 147.2 | 119.5 | 179.3 |
| 115     | 59.4  | 44.5  | 66.7  |



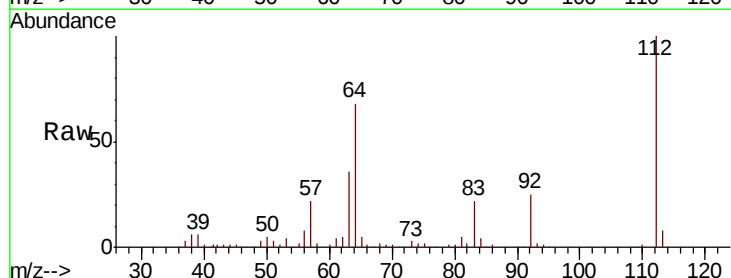
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



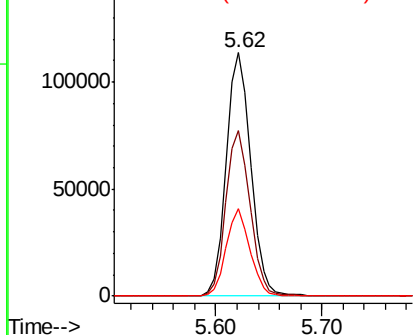
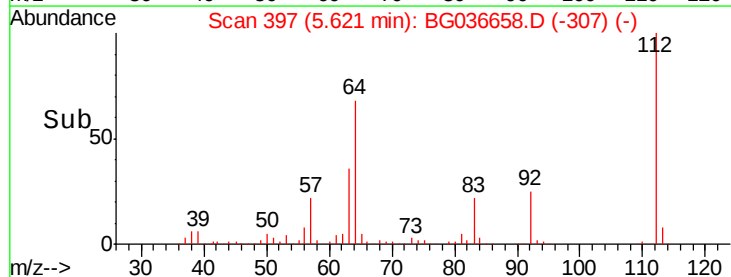
#5

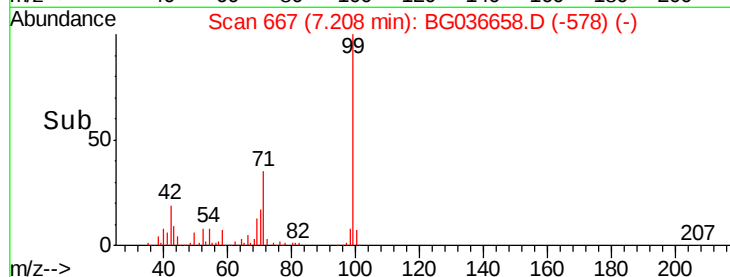
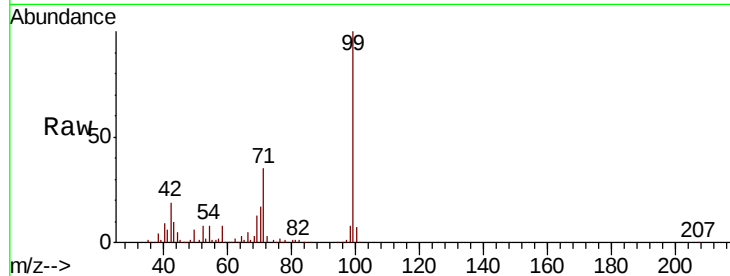
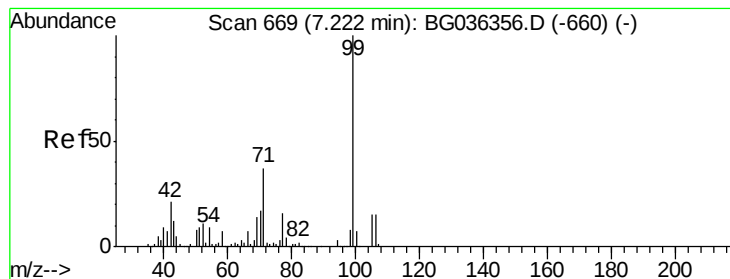
2-Fluorophenol  
Concen: 49.331 ng  
RT: 5.62 min Scan# 397  
Delta R.T. -0.00 min  
Lab File: BG036658.D  
Acq: 11 Sep 2018 16:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 67.9  | 57.2  | 85.8  |
| 63      | 35.7  | 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: 34.386 ng

RT: 7.21 min Scan# 667

Delta R.T. -0.01 min

Lab File: BG036658.D

Acq: 11 Sep 2018 16:15

Instrument :

BNA\_G

ClientSampled :

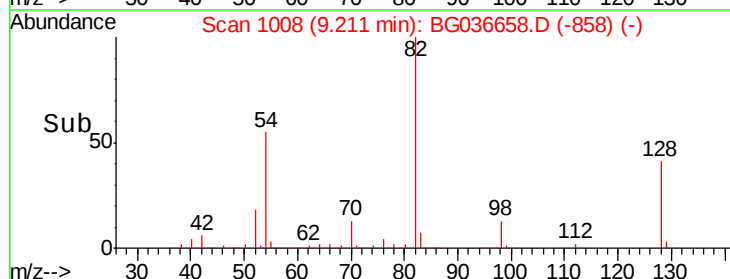
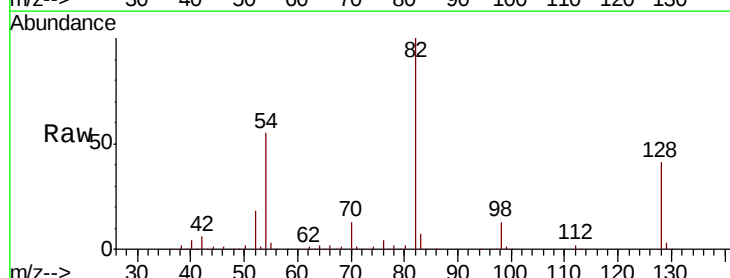
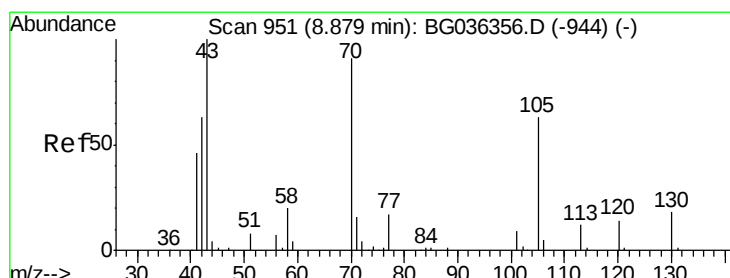
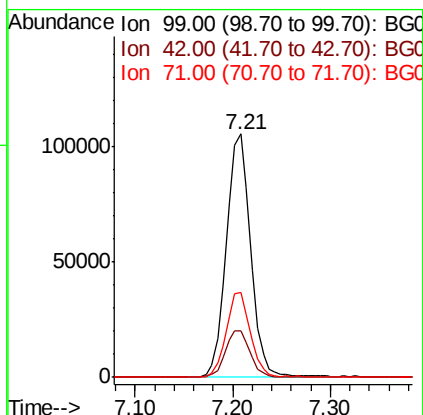
Tot Ion: 99 Resp: 182152

Ion Ratio Lower Upper

99 100

42 19.2 16.5 24.7

71 35.0 29.4 44.2



#19

n-Nitroso-di-n-propylamine

Concen: 15.975 ng

RT: 9.21 min Scan# 1008

Delta R.T. 0.35 min

Lab File: BG036658.D

Acq: 11 Sep 2018 16:15

Tgt Ion: 70 Resp: 63246

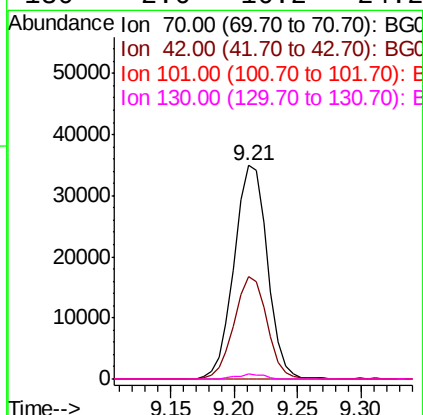
Ion Ratio Lower Upper

70 100

42 48.0 56.2 84.4#

101 0.0 7.8 11.6#

130 2.6 16.2 24.2#

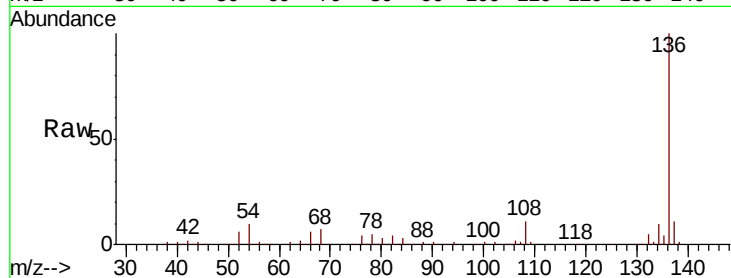




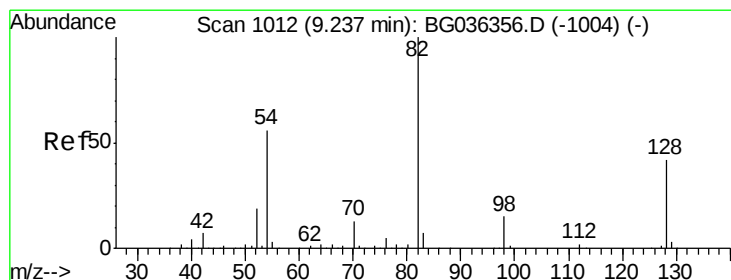
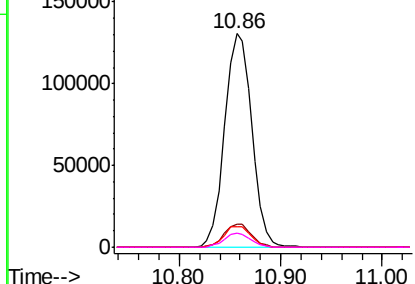
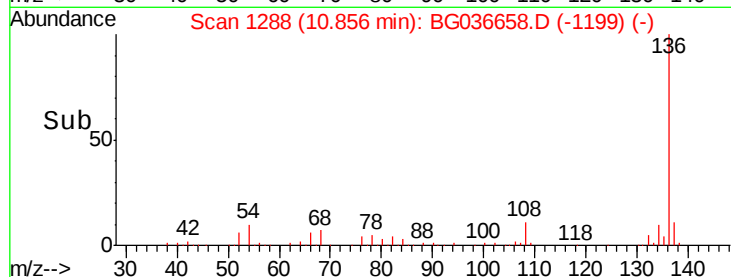
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.86 min Scan# 1288  
Delta R.T. -0.01 min  
Lab File: BG036658.D  
Acq: 11 Sep 2018 16:15

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 242370      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 10.9  | 8.8 13.2    |
| 54          | 9.7   | 9.2 13.8    |
| 68          | 6.6   | 5.8 8.6     |

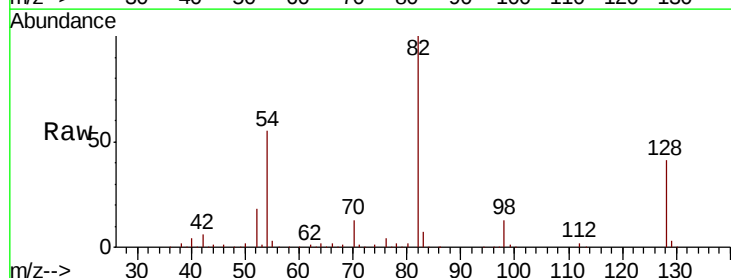


Abundance Ion 136.00 (135.70 to 136.70): E  
200000 Ion 137.00 (136.70 to 137.70): E  
150000 Ion 54.00 (53.70 to 54.70): BGC  
100000 Ion 68.00 (67.70 to 68.70): BGC  
50000  
0

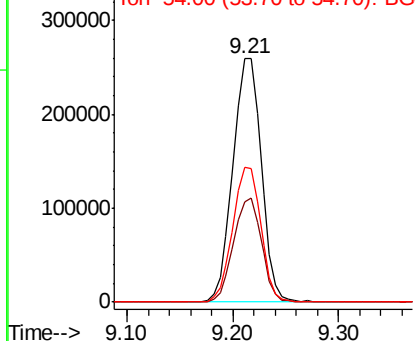
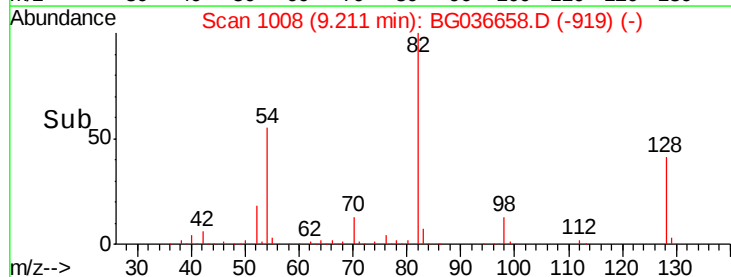


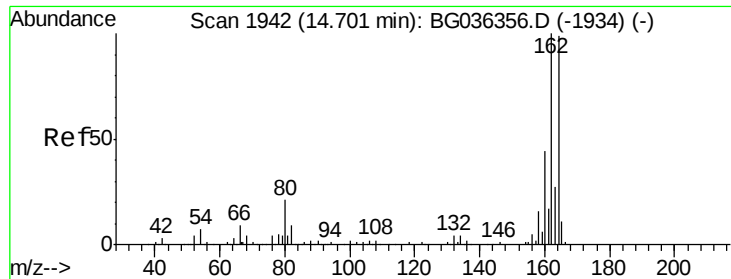
#23  
Nitrobenzene-d5  
Concen: 108.167 ng  
RT: 9.21 min Scan# 1008  
Delta R.T. -0.01 min  
Lab File: BG036658.D  
Acq: 11 Sep 2018 16:15

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 483191      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 41.4  | 33.3 49.9   |
| 54          | 55.4  | 45.1 67.7   |



Abundance Ion 82.00 (81.70 to 82.70): BGC  
300000 Ion 128.00 (127.70 to 128.70): E  
200000 Ion 54.00 (53.70 to 54.70): BGC  
100000  
0





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.68 min Scan# 1938

Delta R.T. -0.01 min

Lab File: BG036658.D

Acq: 11 Sep 2018 16:15

Instrument :

BNA\_G

ClientSampleId :

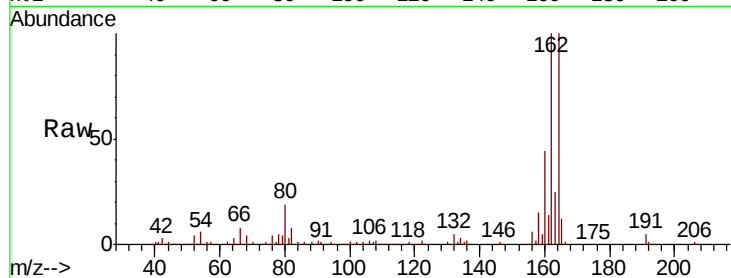
Tot Ion:164 Resp: 164990

Ion Ratio Lower Upper

164 100

162 99.9 80.7 121.1

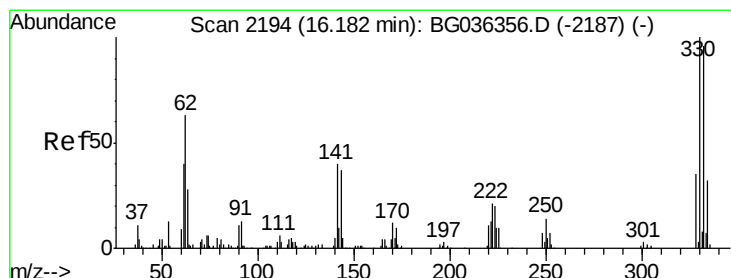
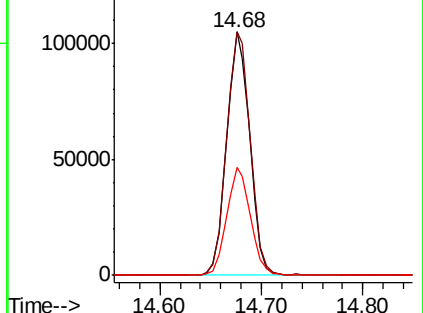
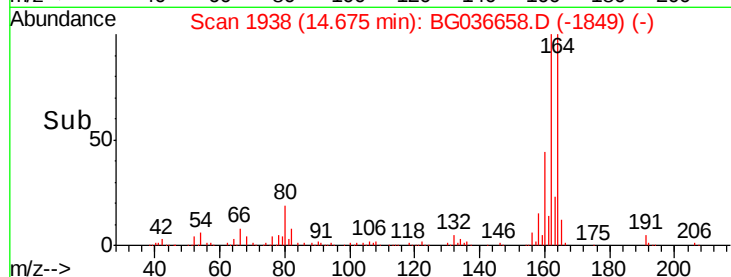
160 44.2 35.3 52.9



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: 108.789 ng

RT: 16.16 min Scan# 2191

Delta R.T. -0.01 min

Lab File: BG036658.D

Acq: 11 Sep 2018 16:15

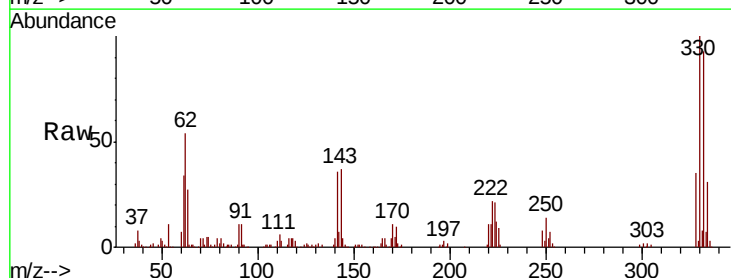
Tgt Ion:330 Resp: 214173

Ion Ratio Lower Upper

330 100

332 95.9 75.4 113.2

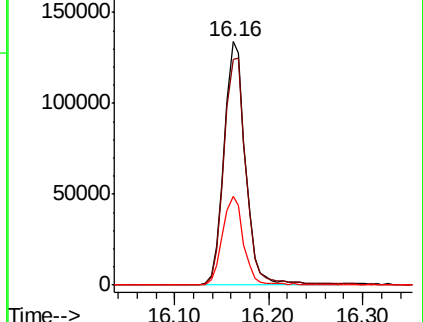
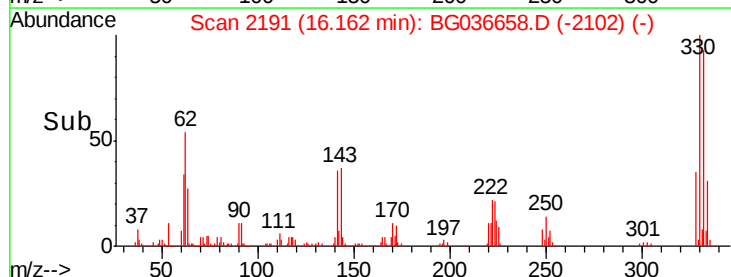
141 36.1 30.7 46.1

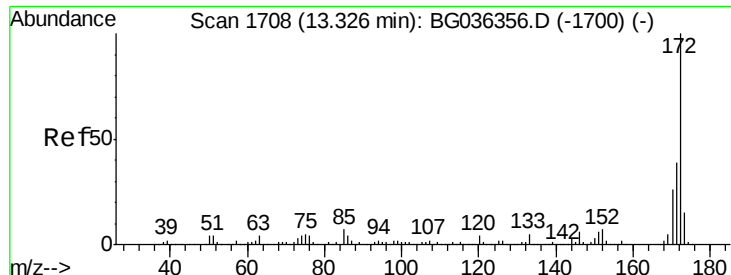


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

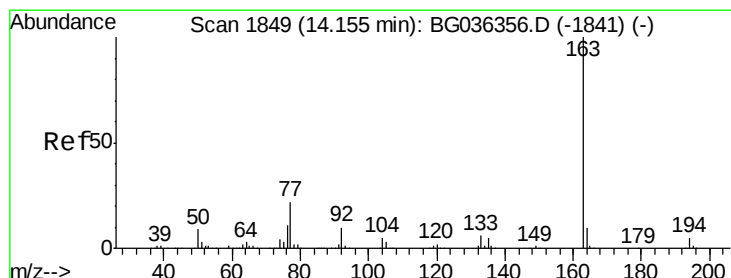
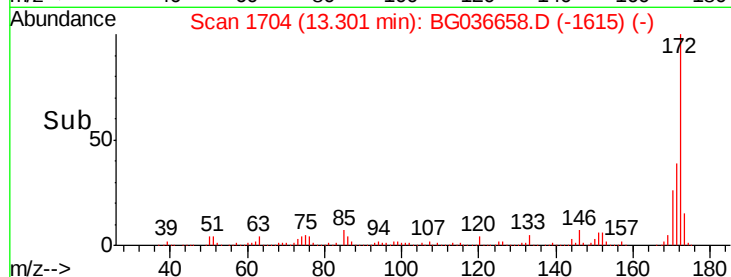
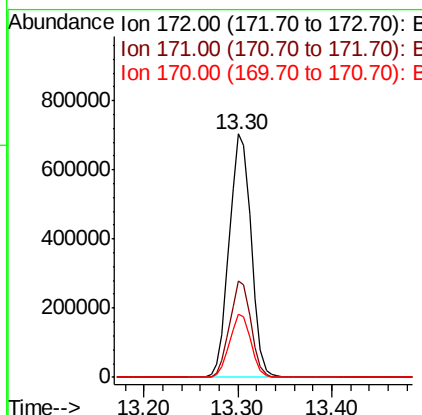
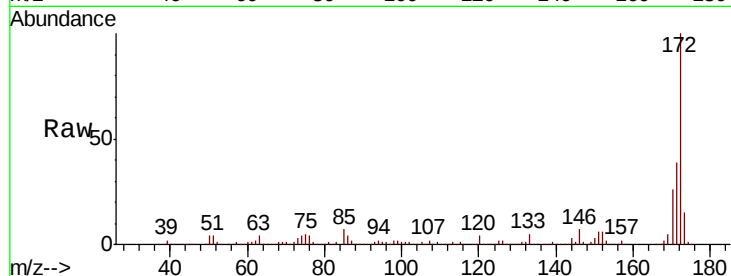




#44  
 2-Fluorobiphenyl  
 Concen: 98.787 ng  
 RT: 13.30 min Scan# 1704  
 Delta R.T. -0.01 min  
 Lab File: BG036658.D  
 Acq: 11 Sep 2018 16:15

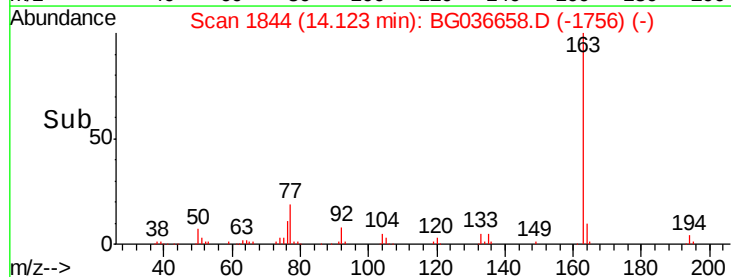
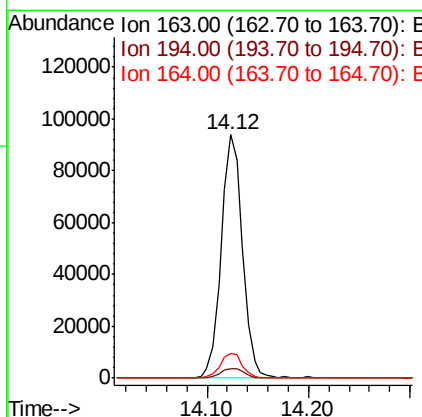
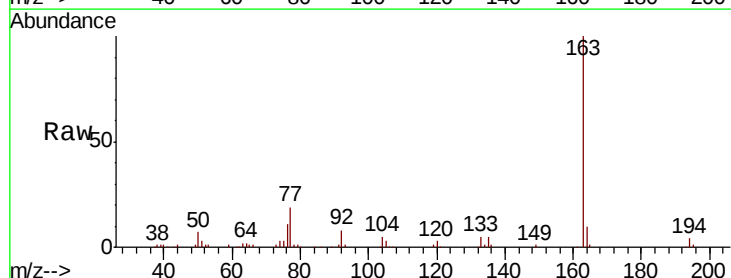
Instrument :  
 BNA\_G  
 ClientSampleId :

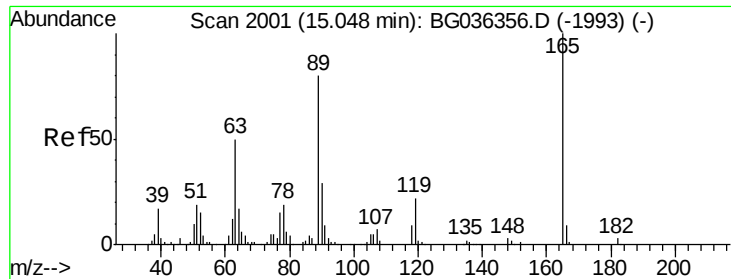
Tot Ion:172 Resp: 1141525  
 Ion Ratio Lower Upper  
 172 100  
 171 39.4 31.3 46.9  
 170 26.1 21.0 31.6



#49  
 Dimethylphthalate  
 Concen: 10.171 ng  
 RT: 14.12 min Scan# 1844  
 Delta R.T. -0.02 min  
 Lab File: BG036658.D  
 Acq: 11 Sep 2018 16:15

Tgt Ion:163 Resp: 137030  
 Ion Ratio Lower Upper  
 163 100  
 194 4.0 4.0 6.0  
 164 10.1 8.1 12.1

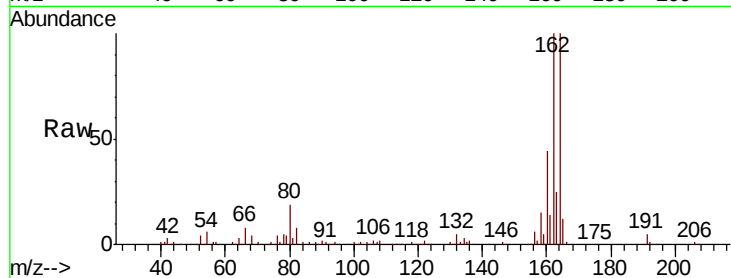




#56  
2,4-Dinitrotoluene  
Concen: 5.728 ng  
RT: 14.68 min Scan# 1938  
Delta R.T. -0.36 min  
Lab File: BG036658.D  
Acq: 11 Sep 2018 16:15

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.4   | 40.1  | 60.1# |
| 89      | 2.2   | 63.7  | 95.5# |
| 182     | 0.0   | 2.5   | 3.7#  |



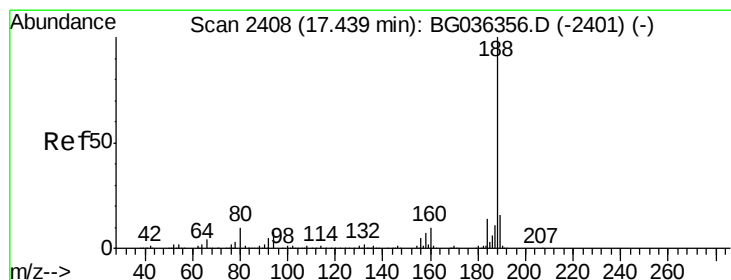
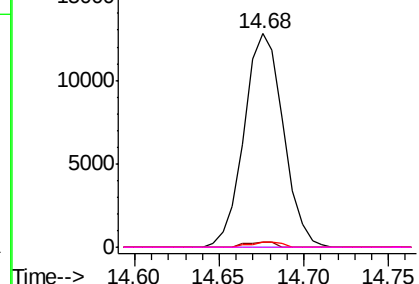
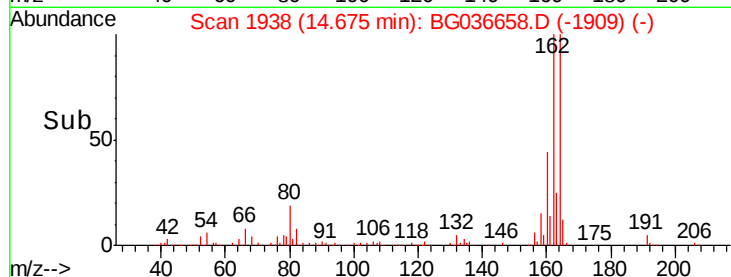
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

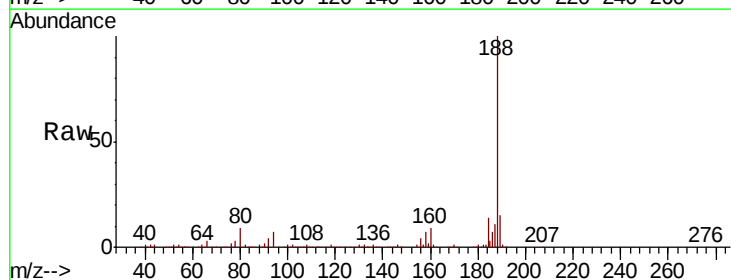
Ion 89.00 (88.70 to 89.70): BGC

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: BG036658.D  
Acq: 11 Sep 2018 16:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 7.4   | 6.7   | 10.1  |
| 80      | 8.5   | 8.1   | 12.1  |

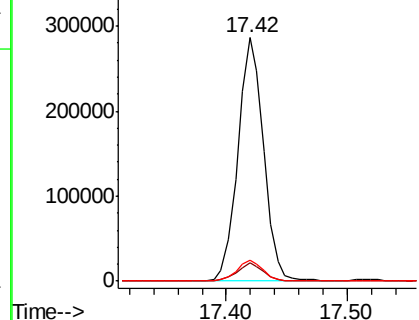
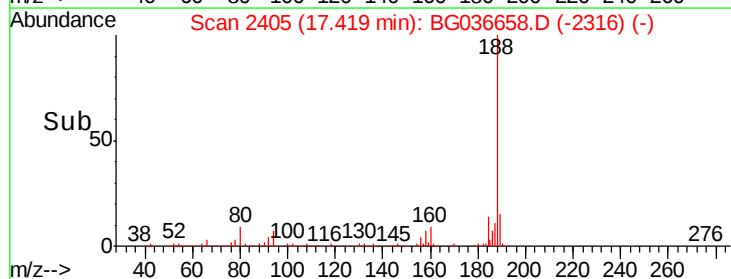


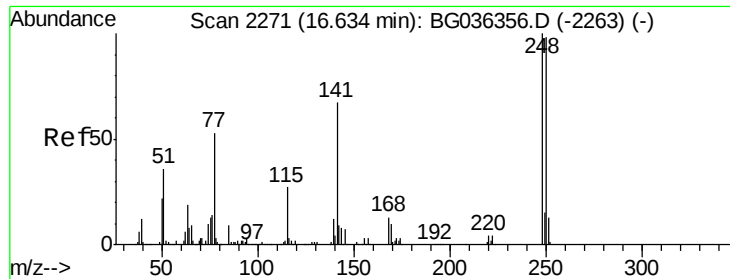
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

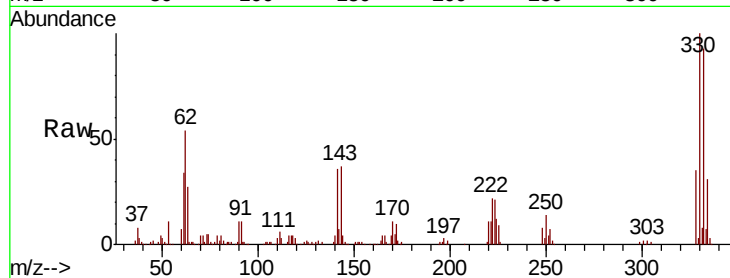




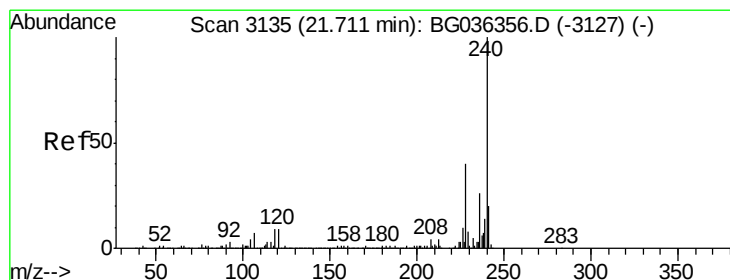
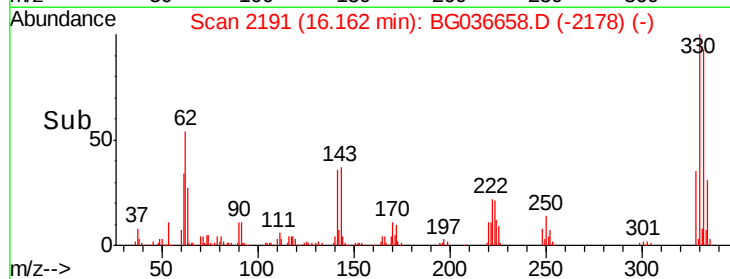
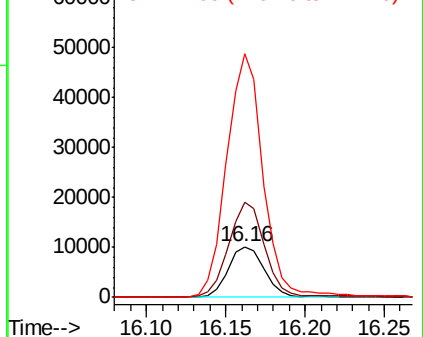
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.192 ng  
 RT: 16.16 min Scan# 2191  
 Delta R.T. -0.46 min  
 Lab File: BG036658.D  
 Acq: 11 Sep 2018 16:15

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:248 Resp: 15859  
 Ion Ratio Lower Upper  
 248 100  
 250 189.2 78.1 117.1#  
 141 482.7 53.7 80.5#

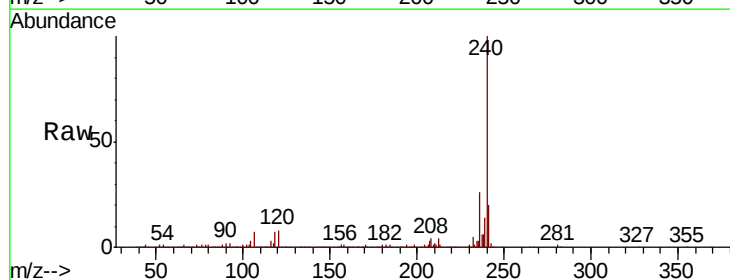


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

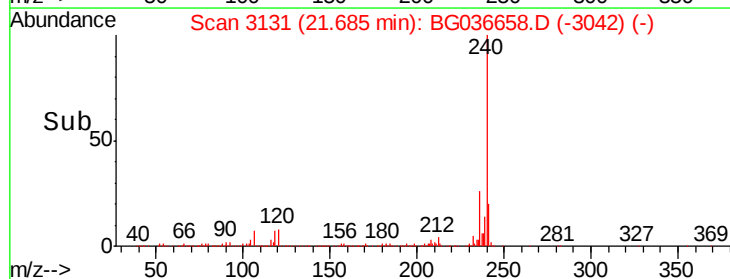
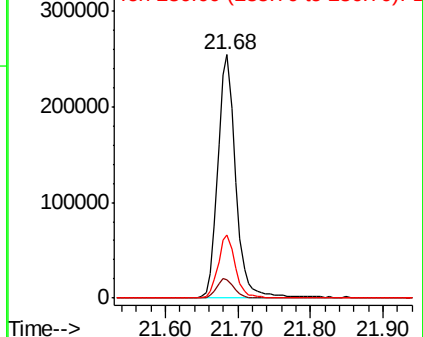


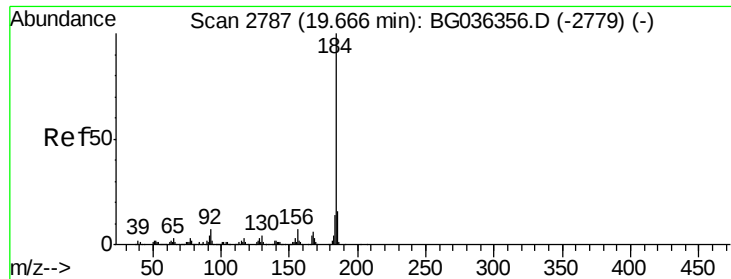
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.68 min Scan# 3131  
 Delta R.T. -0.01 min  
 Lab File: BG036658.D  
 Acq: 11 Sep 2018 16:15

Tgt Ion:240 Resp: 439027  
 Ion Ratio Lower Upper  
 240 100  
 120 7.7 6.9 10.3  
 236 25.7 21.2 31.8



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: 2.321 ng

RT: 20.03 min Scan# 2849

Delta R.T. 0.38 min

Lab File: BG036658.D

Acq: 11 Sep 2018 16:15

Instrument :

BNA\_G

ClientSampleId :

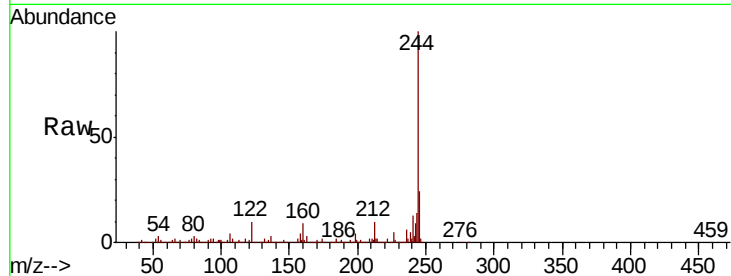
Tot Ion:184 Resp: 32506

Ion Ratio Lower Upper

184 100

185 17.9 12.6 18.8

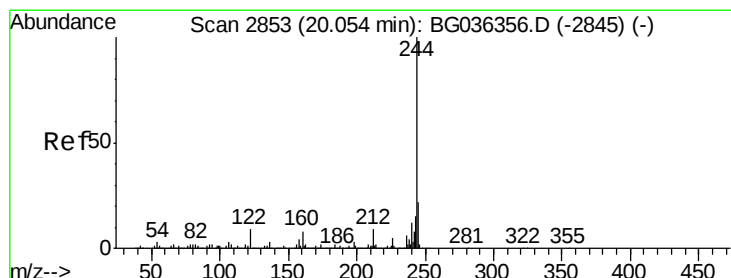
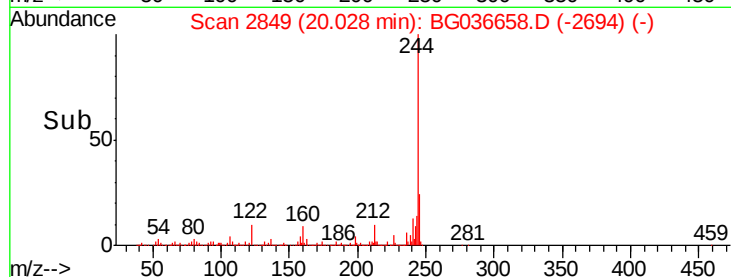
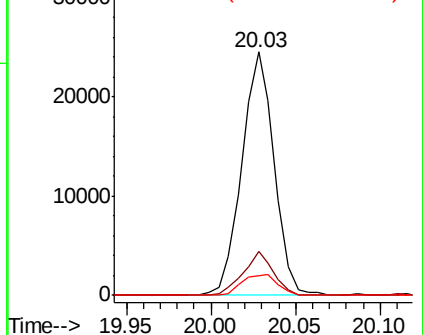
183 8.2 10.9 16.3#



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: 97.206 ng

RT: 20.03 min Scan# 2849

Delta R.T. -0.00 min

Lab File: BG036658.D

Acq: 11 Sep 2018 16:15

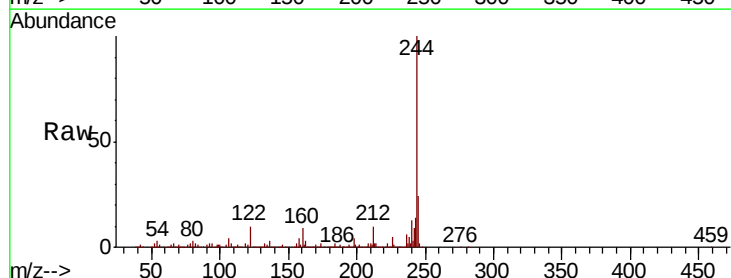
Tgt Ion:244 Resp: 1825836

Ion Ratio Lower Upper

244 100

212 9.6 7.0 10.6

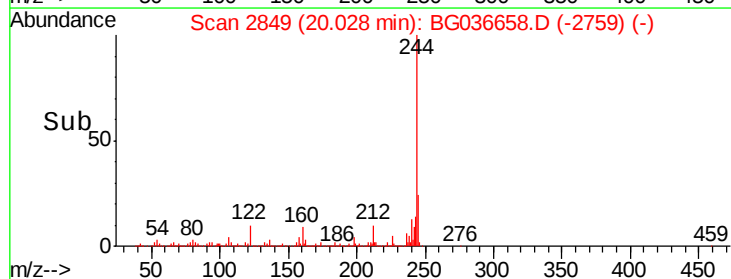
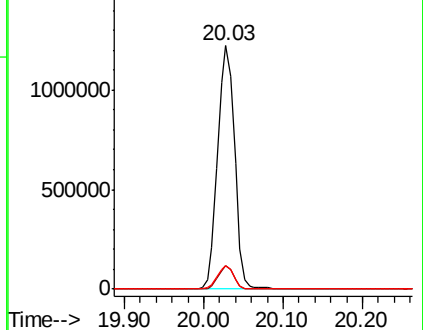
122 9.7 7.1 10.7

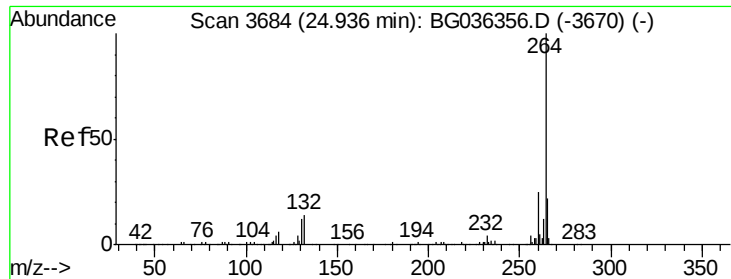


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 24.89 min Scan# 3677  
Delta R.T. -0.01 min  
Lab File: BG036658.D  
Acq: 11 Sep 2018 16:15

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.6  | 19.6  | 29.4  |
| 265     | 21.5  | 17.4  | 26.0  |

