

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG082418\  
 Data File : BG036389.D  
 Acq On : 23 Aug 2018 22:47  
 Operator : JU/SJ  
 Sample : J4522-01  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Aug 24 03:34:49 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 23 12:07:02 2018  
 Response via : Initial Calibration

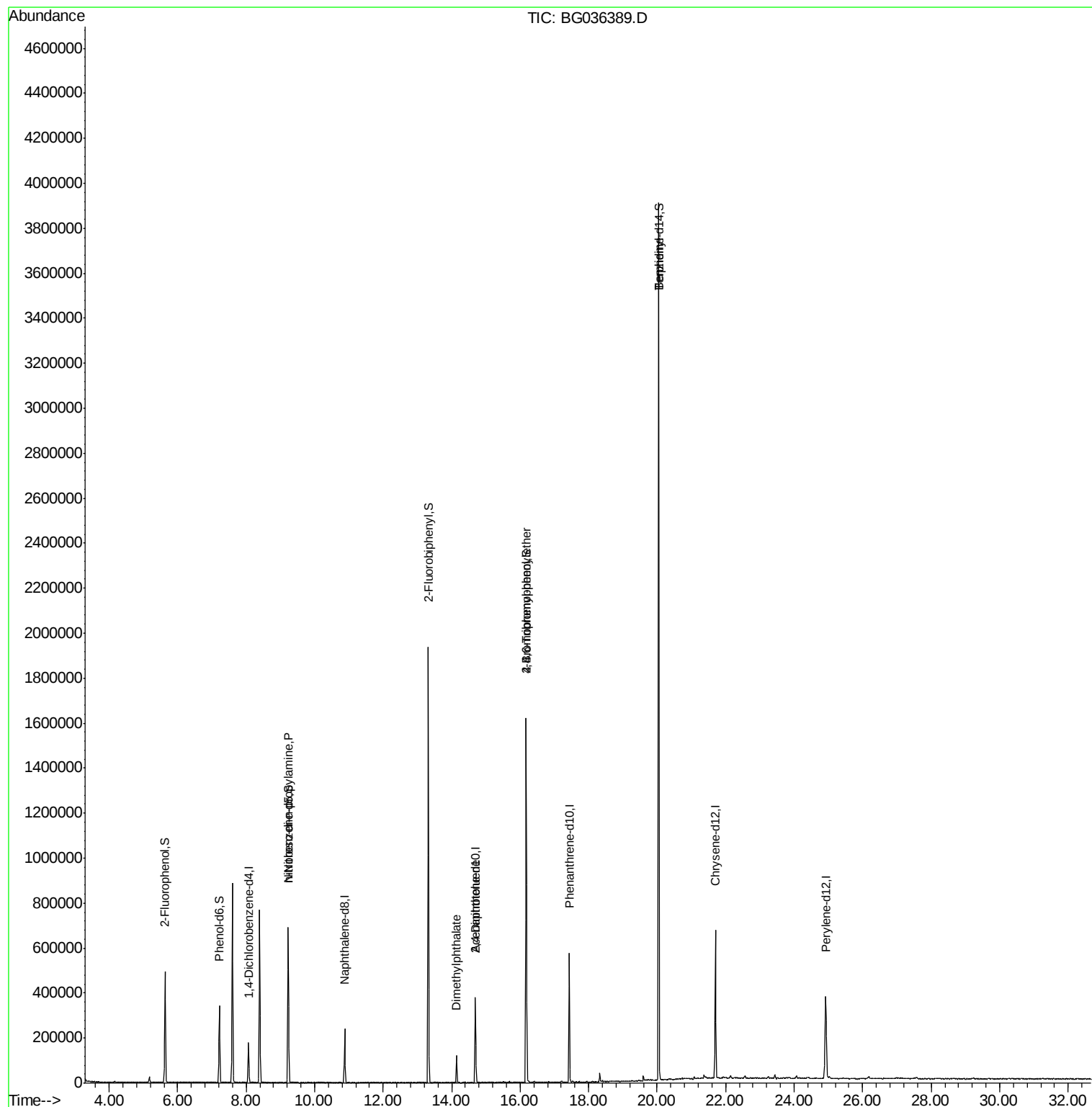
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 8.07  | 152  | 47967    | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8             | 10.88 | 136  | 200174   | 20.00  | ng    | 0.00        |
| 38) Acenaphthene-d10           | 14.69 | 164  | 136462   | 20.00  | ng    | -0.01       |
| 63) Phenanthrene-d10           | 17.43 | 188  | 362629   | 20.00  | ng    | 0.00        |
| 75) Chrysene-d12               | 21.70 | 240  | 389038   | 20.00  | ng    | 0.00        |
| 86) Perylene-d12               | 24.92 | 264  | 396268   | 20.00  | ng    | -0.02       |
| System Monitoring Compounds    |       |      |          |        |       |             |
| 5) 2-Fluorophenol              | 5.64  | 112  | 213128   | 70.48  | ng    | 0.00        |
| 7) Phenol-d6                   | 7.22  | 99   | 189062   | 43.67  | ng    | 0.00        |
| 23) Nitrobenzene-d5            | 9.23  | 82   | 413822   | 112.17 | ng    | 0.00        |
| 41) 2,4,6-Tribromophenol       | 16.18 | 330  | 290961   | 178.69 | ng    | 0.00        |
| 44) 2-Fluorobiphenyl           | 13.32 | 172  | 979263   | 102.46 | ng    | 0.00        |
| 78) Terphenyl-d14              | 20.05 | 244  | 1737482  | 104.39 | ng    | 0.00        |
| Target Compounds               |       |      |          |        |       |             |
| 19) n-Nitroso-di-n-propylamine | 9.23  | 70   | 55618    | 17.189 | ng    | Qvalue # 70 |
| 49) Dimethylphthalate          | 14.14 | 163  | 81711    | 7.333  | ng    | # 98        |
| 56) 2,4-Dinitrotoluene         | 14.69 | 165  | 16757    | 5.607  | ng    | # 20        |
| 66) 4-Bromophenyl-phenylether  | 16.18 | 248  | 20317    | 4.785  | ng    | # 1         |
| 76) Benzidine                  | 20.05 | 184  | 31114    | 2.507  | ng    | # 93        |

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

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Operator : JU/SJ  
Sample : J4522-01  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Aug 24 03:34:49 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082318.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Aug 23 12:07:02 2018  
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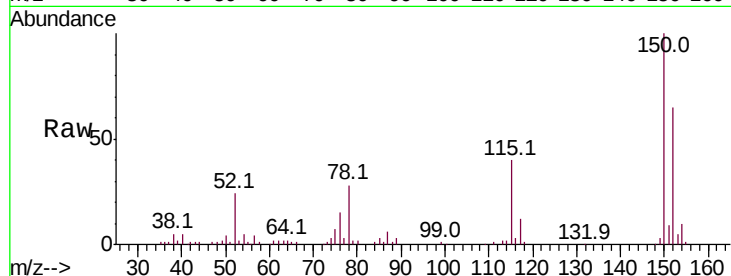


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.07 min Scan# 813  
Delta R.T. -0.01 min  
Lab File: BG036389.D  
Acq: 23 Aug 2018 22:47

Instrument :  
BNA\_G  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.6 | 119.5 | 179.3 |
| 115     | 61.8  | 44.5  | 66.7  |

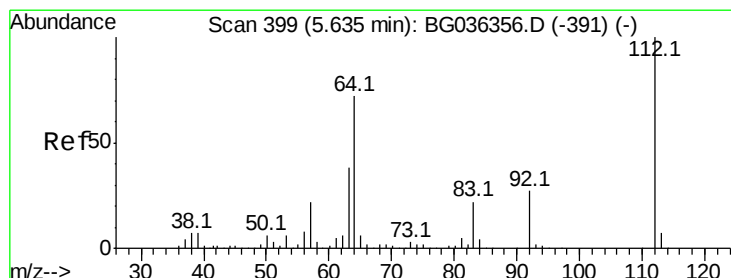
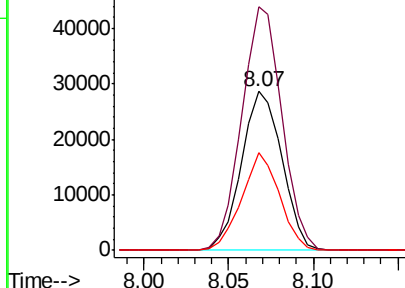
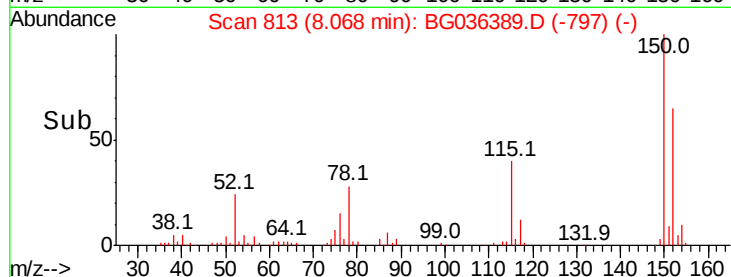


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

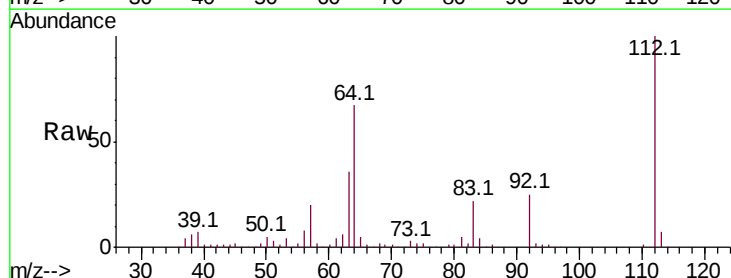
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 70.483 ng  
RT: 5.64 min Scan# 399  
Delta R.T. 0.00 min  
Lab File: BG036389.D  
Acq: 23 Aug 2018 22:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 67.3  | 57.2  | 85.8  |
| 63      | 36.0  | 30.8  | 46.2  |

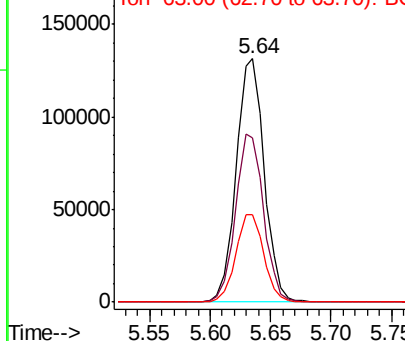
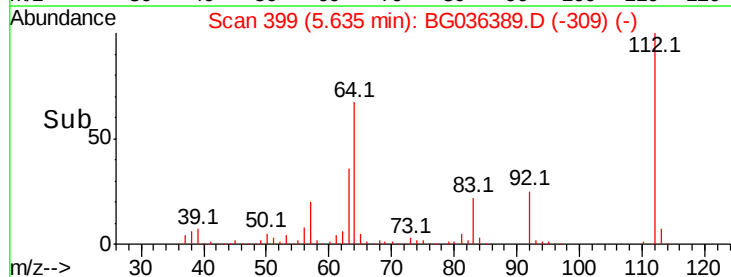


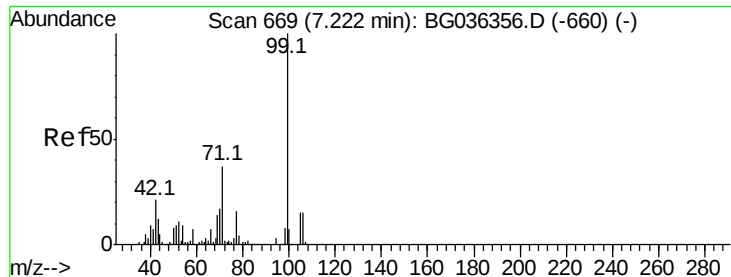
Abundance

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: 43.669 ng

RT: 7.22 min Scan# 668

Delta R.T. -0.01 min

Lab File: BG036389.D

Acq: 23 Aug 2018 22:47

Instrument :

BNA\_G

ClientSampleId :

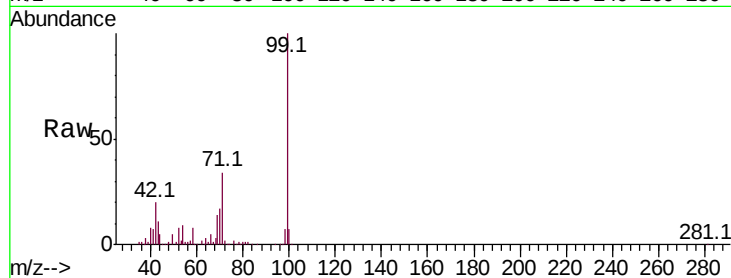
Tot Ion: 99 Resp: 189062

Ion Ratio Lower Upper

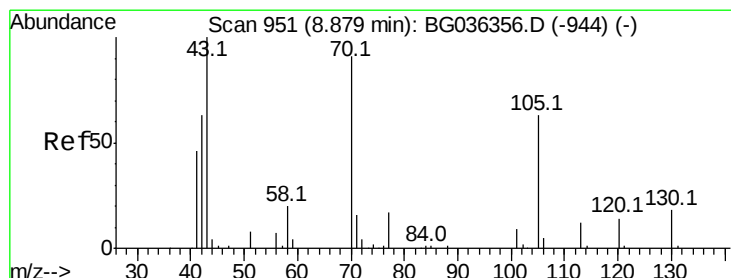
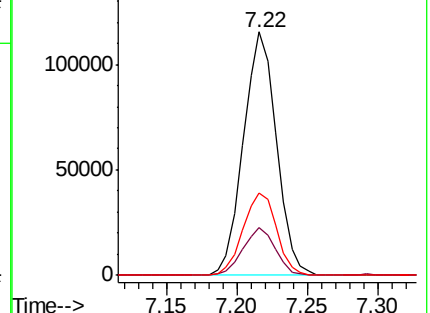
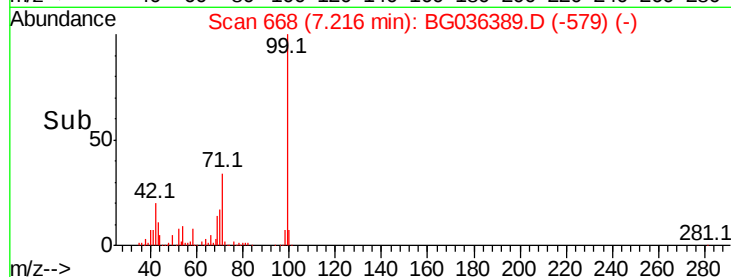
99 100

42 19.6 16.5 24.7

71 34.1 29.4 44.2



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: 17.189 ng

RT: 9.23 min Scan# 1010

Delta R.T. 0.35 min

Lab File: BG036389.D

Acq: 23 Aug 2018 22:47

Tgt Ion: 70 Resp: 55618

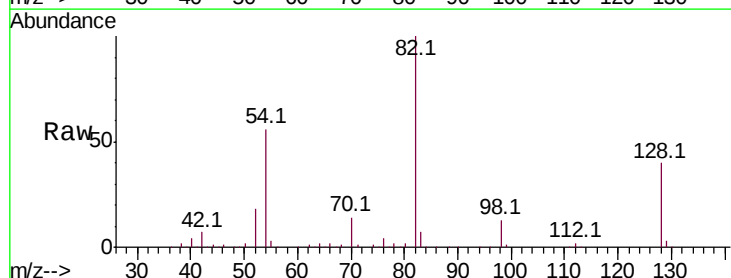
Ion Ratio Lower Upper

70 100

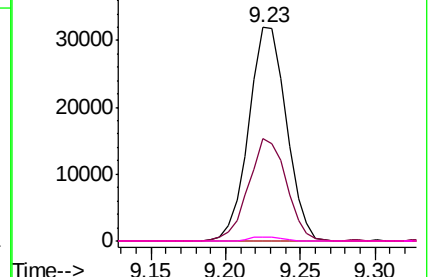
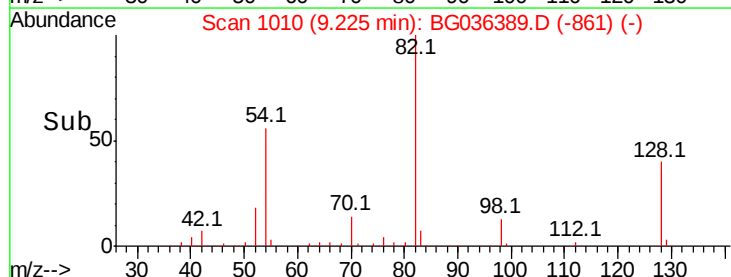
42 47.8 56.2 84.4#

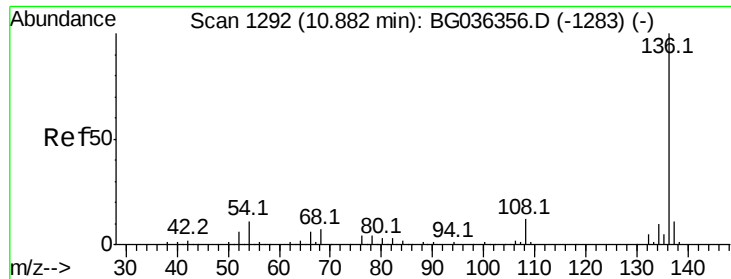
101 0.0 7.8 11.6#

130 2.1 16.2 24.2#



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

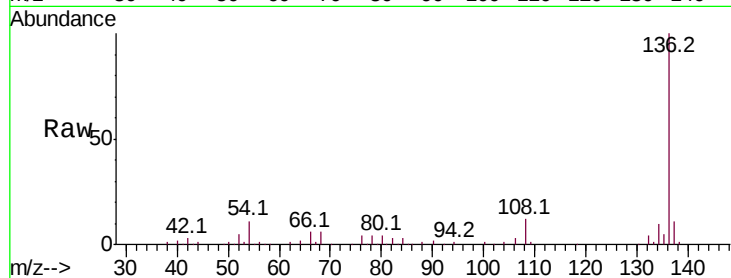




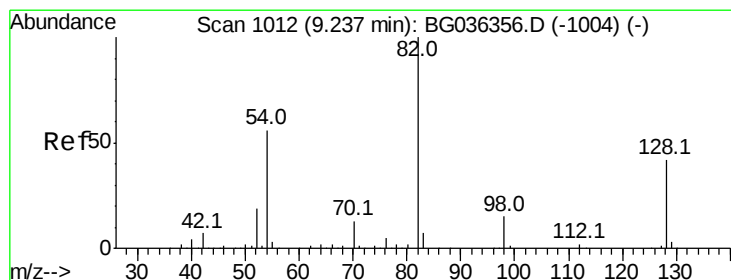
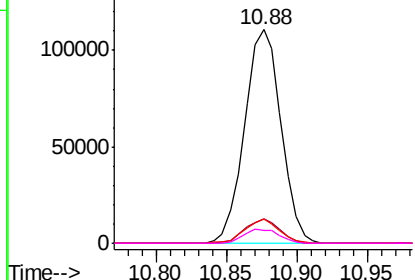
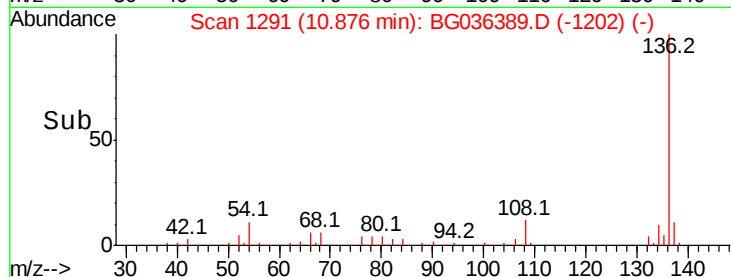
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.88 min Scan# 1291  
Delta R.T. -0.01 min  
Lab File: BG036389.D  
Acq: 23 Aug 2018 22:47

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 200174      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.3  | 8.8 13.2    |
| 54          | 11.1  | 9.2 13.8    |
| 68          | 6.2   | 5.8 8.6     |

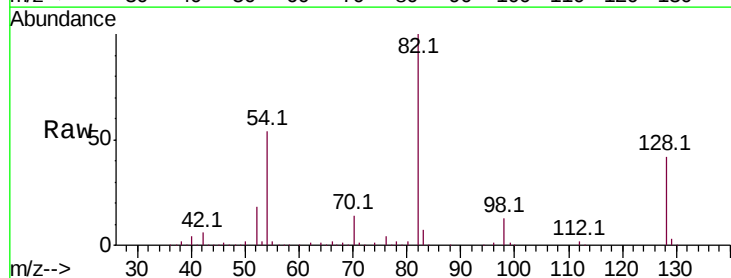


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

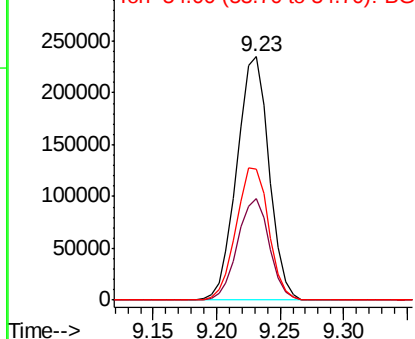
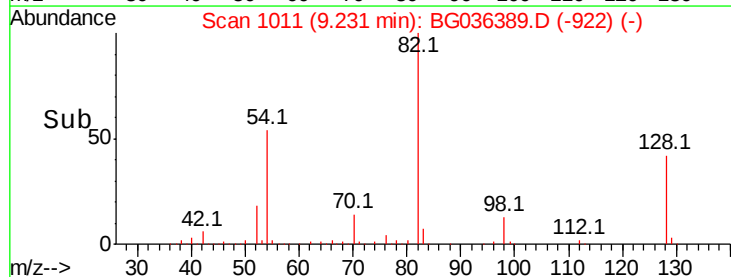


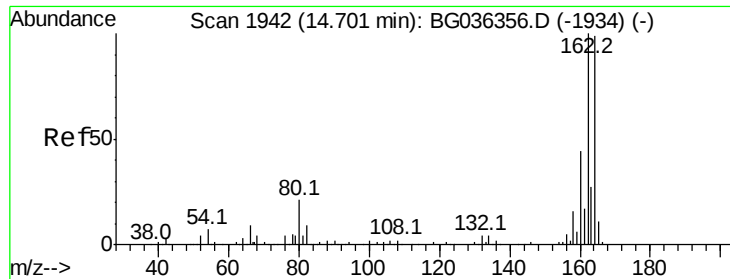
#23  
Nitrobenzene-d5  
Concen: 112.165 ng  
RT: 9.23 min Scan# 1011  
Delta R.T. -0.01 min  
Lab File: BG036389.D  
Acq: 23 Aug 2018 22:47

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 413822      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 41.9  | 33.3 49.9   |
| 54          | 53.8  | 45.1 67.7   |



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

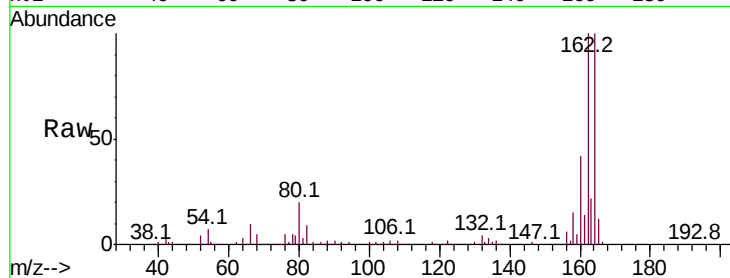




#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.69 min Scan# 1940  
Delta R.T. -0.01 min  
Lab File: BG036389.D  
Acq: 23 Aug 2018 22:47

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 100.1 | 80.7  | 121.1 |
| 160     | 42.5  | 35.3  | 52.9  |

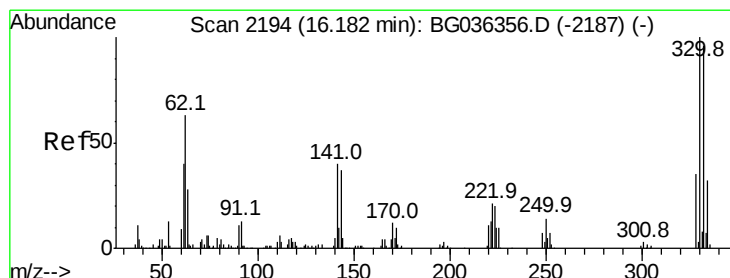
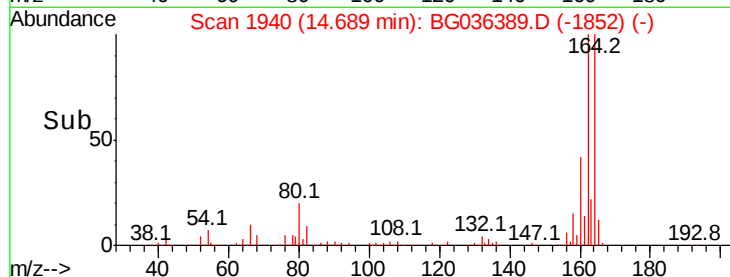
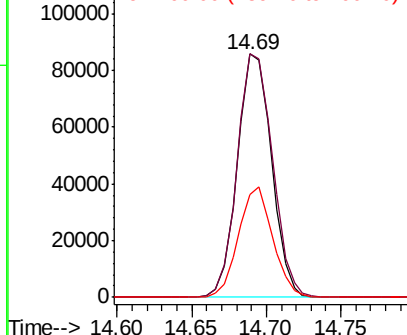


Abundance

Ion 164.00 (163.70 to 164.70): E

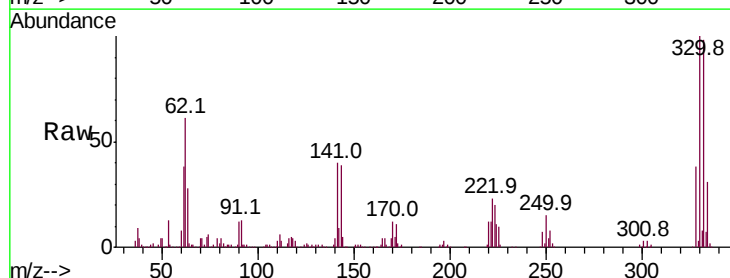
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41  
2,4,6-Tribromophenol  
Concen: 178.690 ng  
RT: 16.18 min Scan# 2193  
Delta R.T. -0.01 min  
Lab File: BG036389.D  
Acq: 23 Aug 2018 22:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.6  | 75.4  | 113.2 |
| 141     | 37.7  | 30.7  | 46.1  |

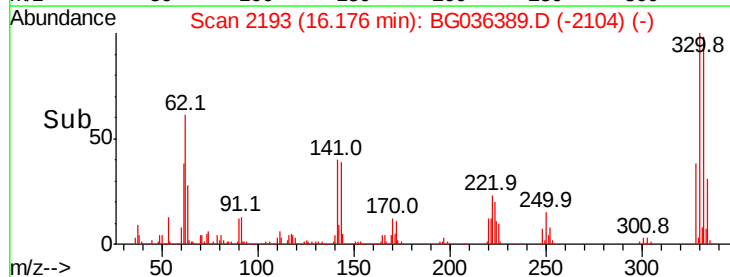
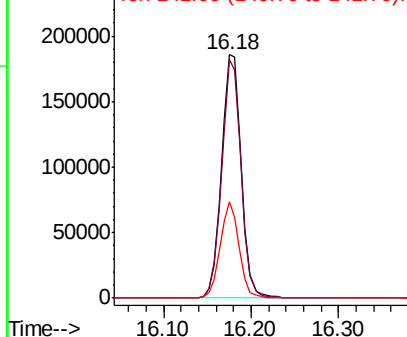


Abundance

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

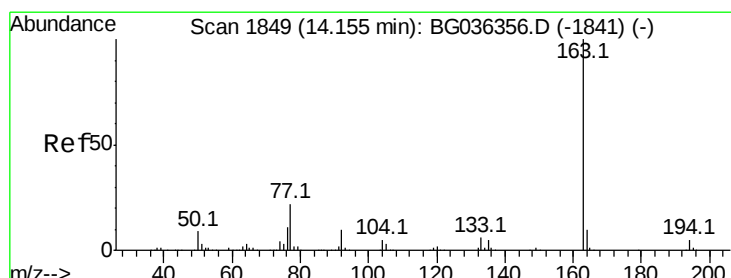
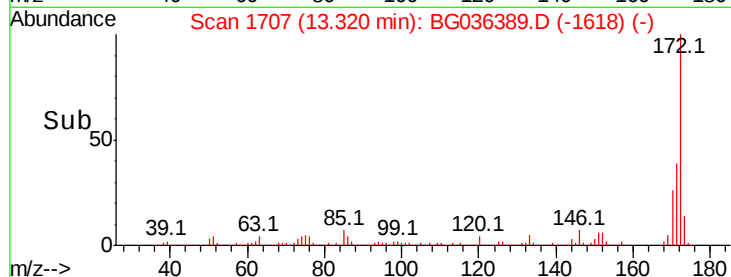
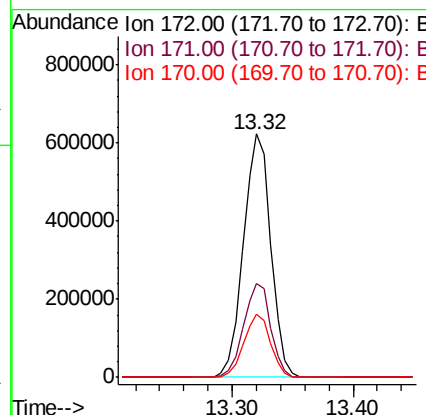
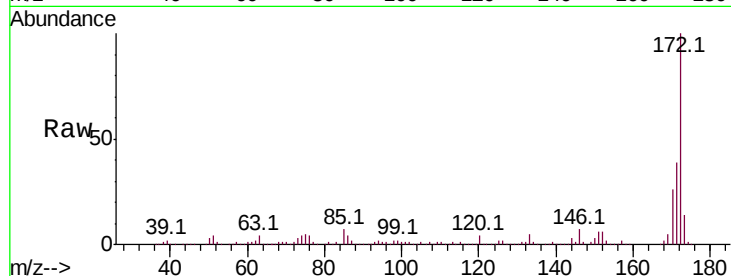




#44  
 2-Fluorobiphenyl  
 Concen: 102.461 ng  
 RT: 13.32 min Scan# 1707  
 Delta R.T. -0.01 min  
 Lab File: BG036389.D  
 Acq: 23 Aug 2018 22:47

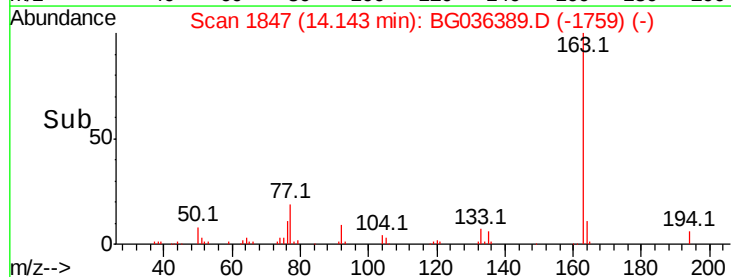
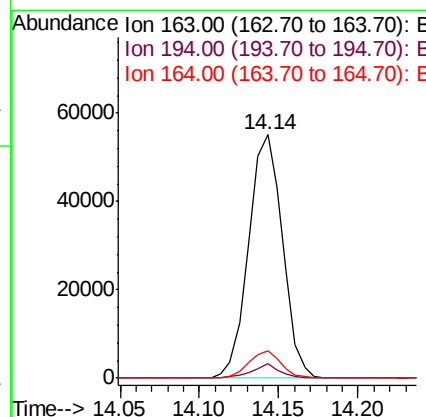
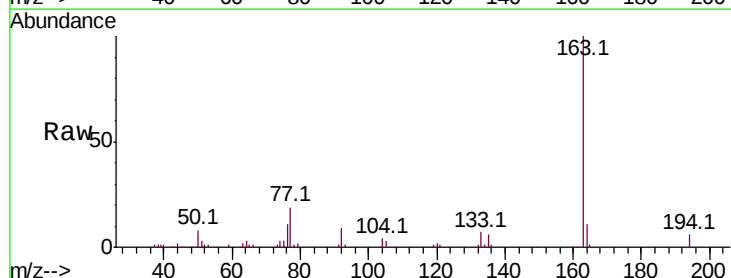
Instrument :  
 BNA\_G  
 ClientSampleId :

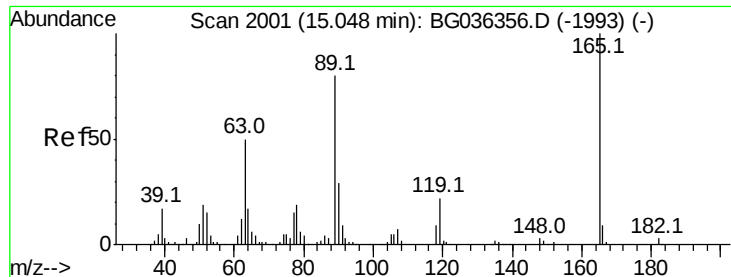
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.5  | 31.3  | 46.9  |
| 170     | 25.9  | 21.0  | 31.6  |



#49  
 Dimethylphthalate  
 Concen: 7.333 ng  
 RT: 14.14 min Scan# 1847  
 Delta R.T. -0.01 min  
 Lab File: BG036389.D  
 Acq: 23 Aug 2018 22:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 5.7   | 4.0   | 6.0   |
| 164     | 11.0  | 8.1   | 12.1  |

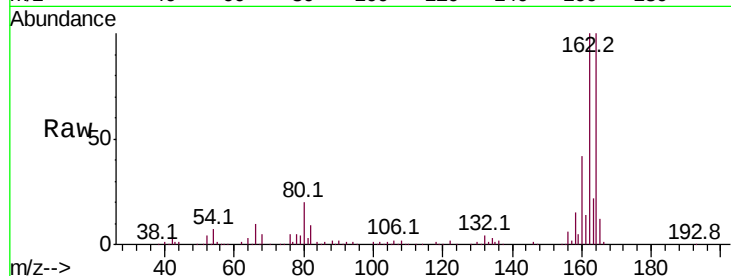




#56  
2,4-Dinitrotoluene  
Concen: 5.607 ng  
RT: 14.69 min Scan# 1940  
Delta R.T. -0.36 min  
Lab File: BG036389.D  
Acq: 23 Aug 2018 22:47

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 40.1  | 60.1# |
| 89      | 2.0   | 63.7  | 95.5# |
| 182     | 0.0   | 2.5   | 3.7#  |



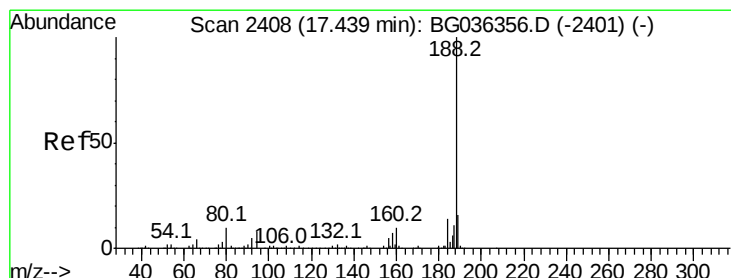
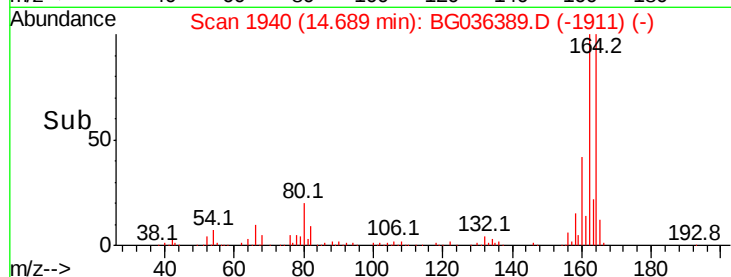
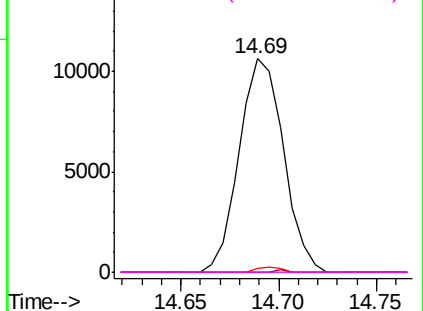
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

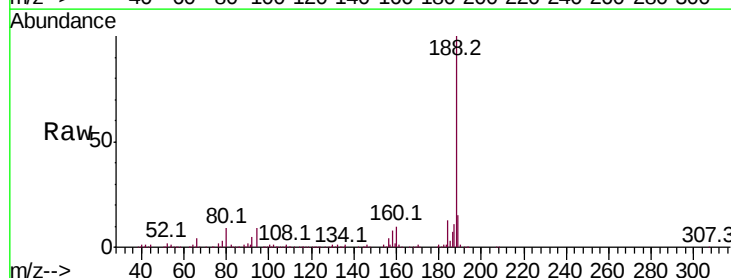
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.43 min Scan# 2407  
Delta R.T. -0.01 min  
Lab File: BG036389.D  
Acq: 23 Aug 2018 22:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.6   | 6.7   | 10.1  |
| 80      | 9.4   | 8.1   | 12.1  |

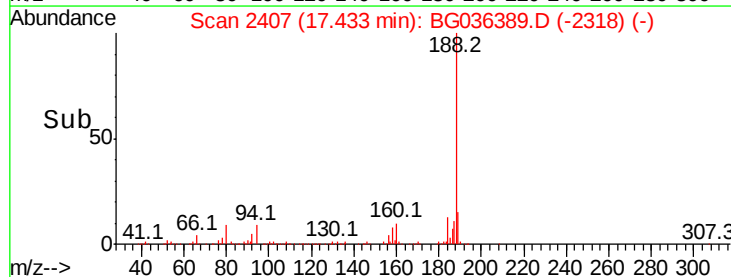
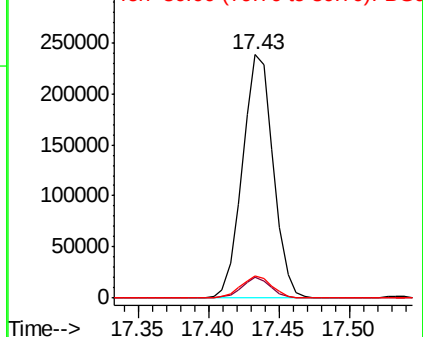


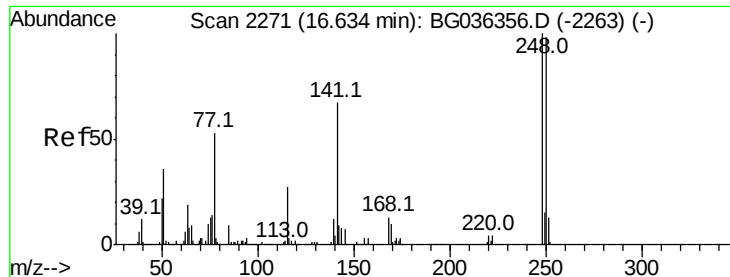
Abundance

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

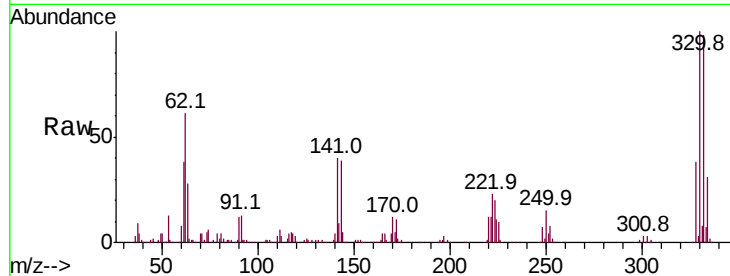




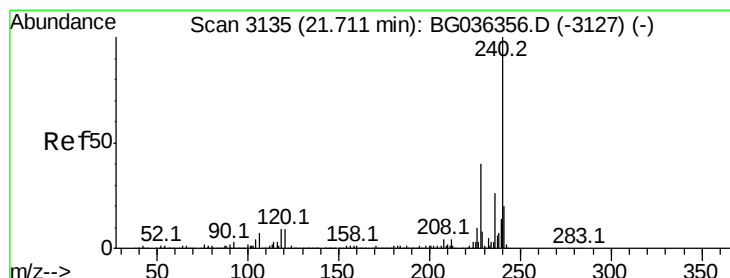
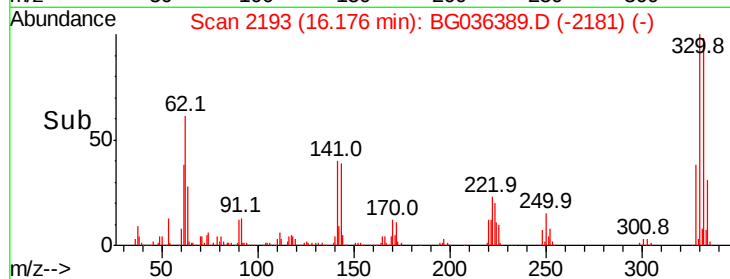
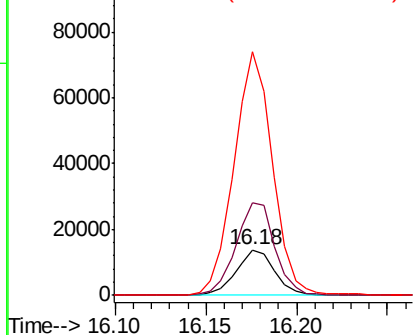
#66  
4-Bromophenyl-phenylether  
Concen: 4.785 ng  
RT: 16.18 min Scan# 2193  
Delta R.T. -0.46 min  
Lab File: BG036389.D  
Acq: 23 Aug 2018 22:47

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:248 Resp: 20317  
Ion Ratio Lower Upper  
248 100  
250 201.8 78.1 117.1#  
141 532.8 53.7 80.5#

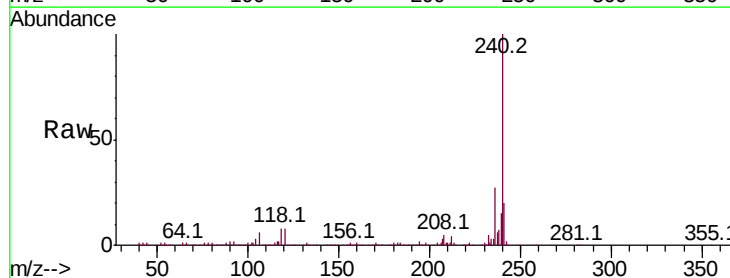


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

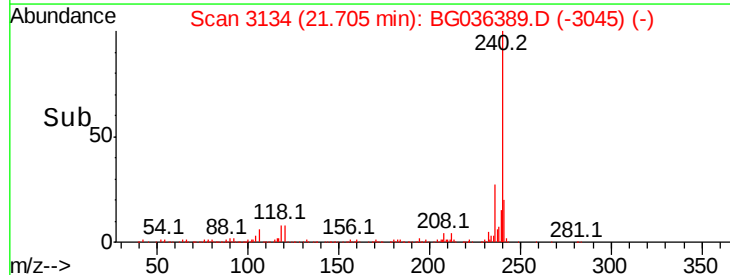
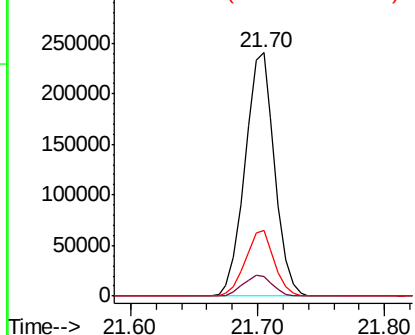


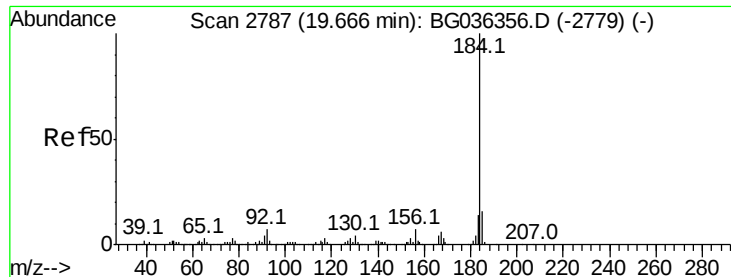
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.70 min Scan# 3134  
Delta R.T. -0.01 min  
Lab File: BG036389.D  
Acq: 23 Aug 2018 22:47

Tgt Ion:240 Resp: 389038  
Ion Ratio Lower Upper  
240 100  
120 8.2 6.9 10.3  
236 26.8 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

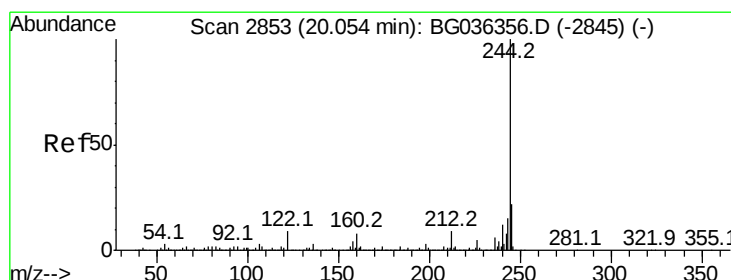
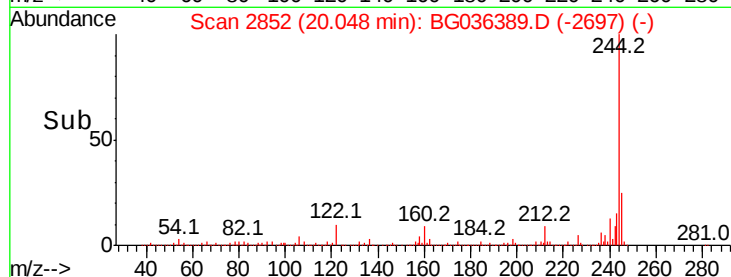
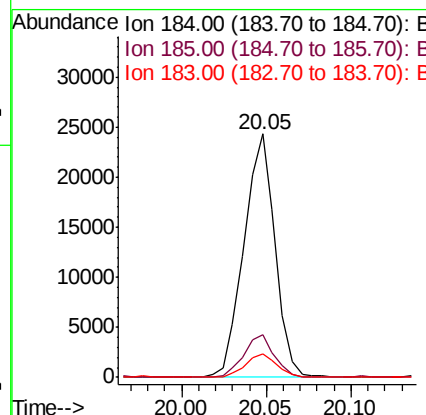
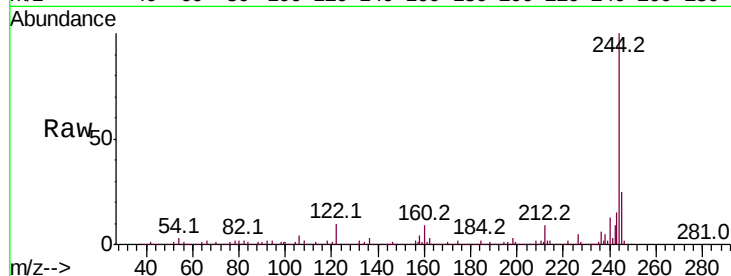




#76  
Benzidine  
Concen: 2.507 ng  
RT: 20.05 min Scan# 2852  
Delta R.T. 0.38 min  
Lab File: BG036389.D  
Acq: 23 Aug 2018 22:47

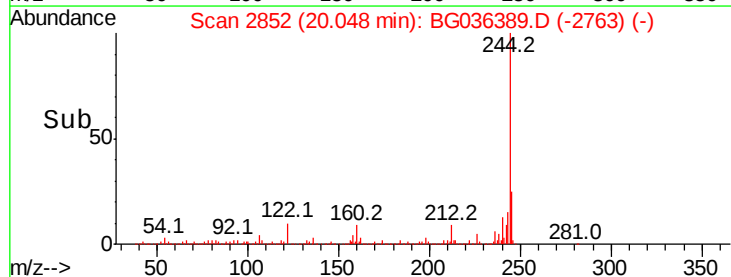
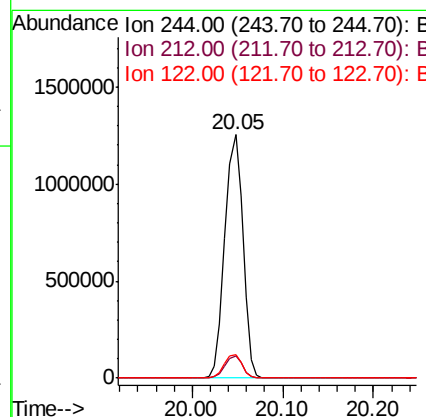
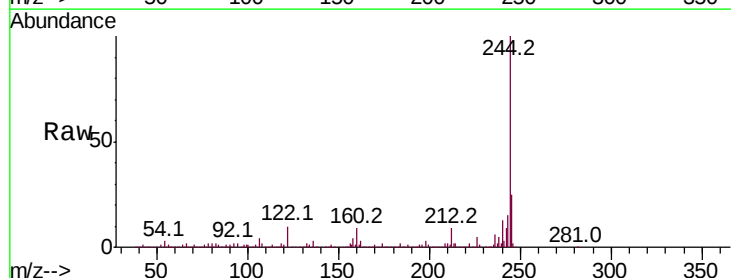
Instrument :  
BNA\_G  
ClientSampleId :

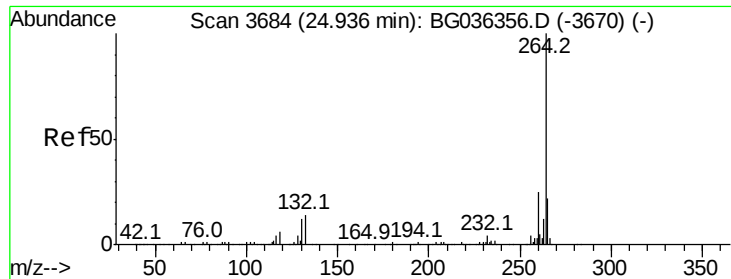
Tot Ion:184 Resp: 31114  
Ion Ratio Lower Upper  
184 100  
185 17.7 12.6 18.8  
183 9.9 10.9 16.3#



#78  
Terphenyl-d14  
Concen: 104.388 ng  
RT: 20.05 min Scan# 2852  
Delta R.T. -0.01 min  
Lab File: BG036389.D  
Acq: 23 Aug 2018 22:47

Tgt Ion:244 Resp: 1737482  
Ion Ratio Lower Upper  
244 100  
212 9.2 7.0 10.6  
122 9.8 7.1 10.7

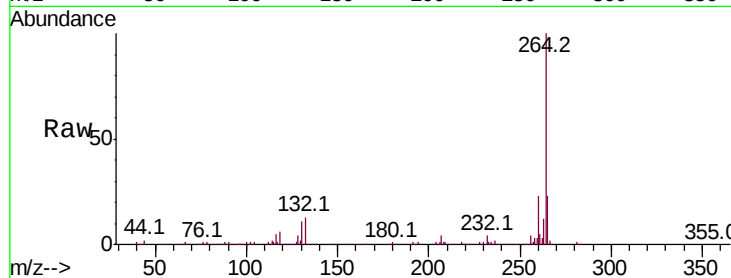




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 24.92 min Scan# 3681  
Delta R.T. -0.02 min  
Lab File: BG036389.D  
Acq: 23 Aug 2018 22:47

Instrument :  
BNA\_G  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 396268 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 23.1  | 19.6  | 29.4   |
| 265      | 22.8  | 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

