

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG091918\  
 Data File : BG036831.D  
 Acq On : 19 Sep 2018 22:34  
 Operator : JU/SJ  
 Sample : J4973-03  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Sep 20 07:07:29 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

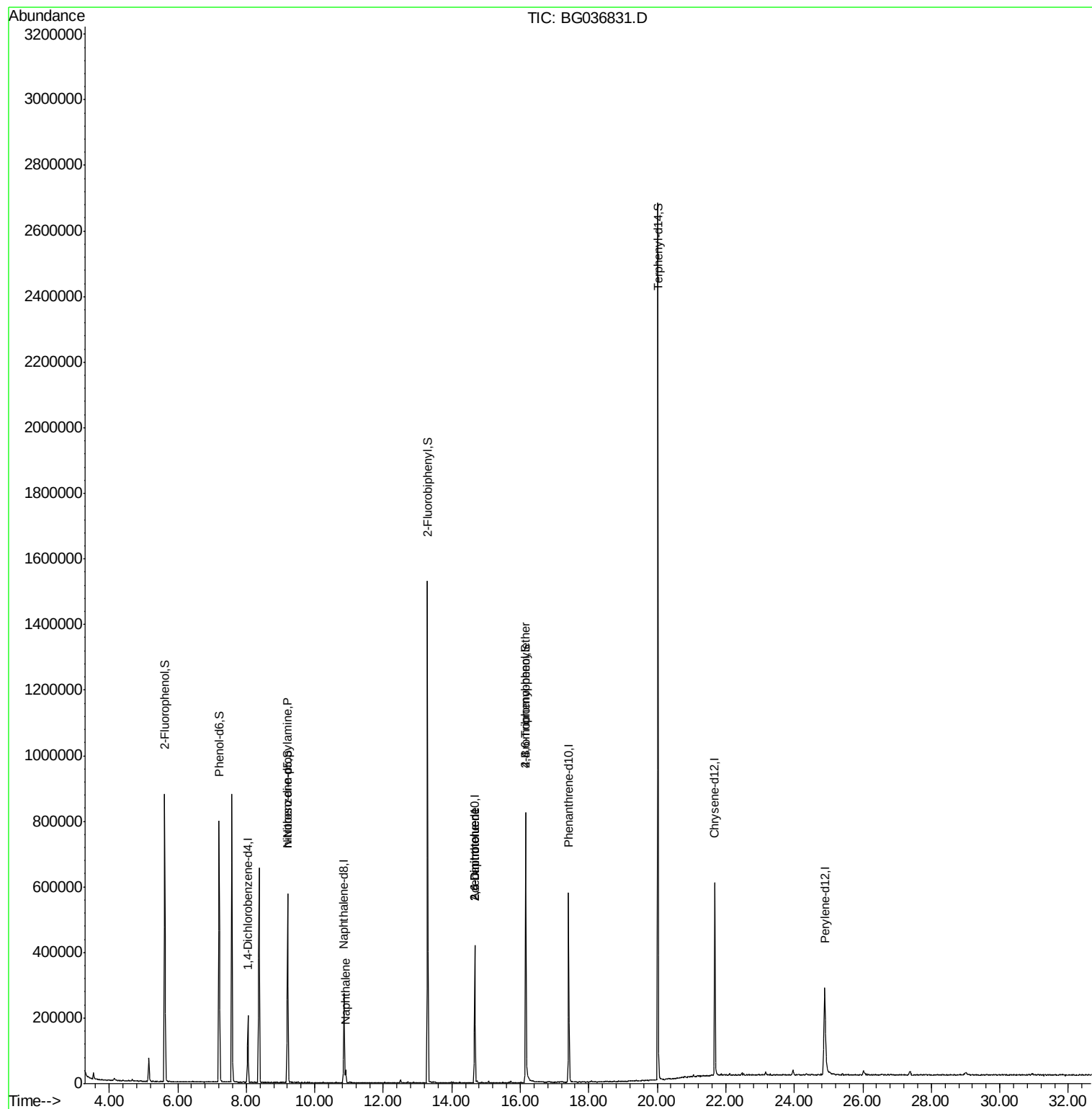
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.05  | 152  | 55597    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 10.85 | 136  | 230318   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 14.67 | 164  | 149713   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 17.41 | 188  | 362222   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12               | 21.68 | 240  | 374787   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 24.89 | 264  | 349948   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.62  | 112  | 354187   | 101.06 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.21  | 99   | 450289   | 89.73  | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 9.21  | 82   | 352169   | 82.96  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 16.16 | 330  | 171561   | 96.04  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 13.29 | 172  | 766649   | 73.12  | ng    | -0.02    |
| 78) Terphenyl-d14              | 20.02 | 244  | 1254956  | 78.26  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.21  | 70   | 47355    | 12.627 | ng    | # 71     |
| 31) Naphthalene                | 10.90 | 128  | 32310    | 2.806  | ng    | # 97     |
| 50) 2,6-Dinitrotoluene         | 14.67 | 165  | 19499    | 7.751  | ng    | # 21     |
| 56) 2,4-Dinitrotoluene         | 14.67 | 165  | 19499    | 5.948  | ng    | # 19     |
| 66) 4-Bromophenyl-phenylether  | 16.16 | 248  | 11555    | 2.725  | ng    | # 1      |

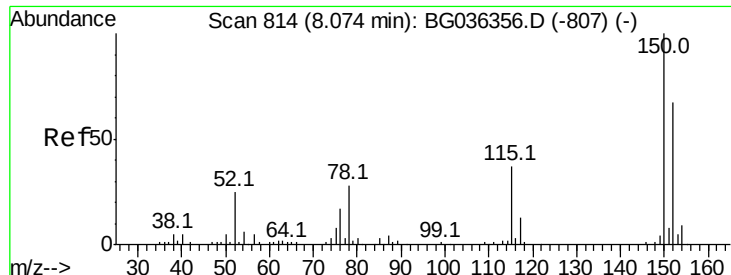
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG091918\  
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Sample : J4973-03  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Sep 20 07:07:29 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



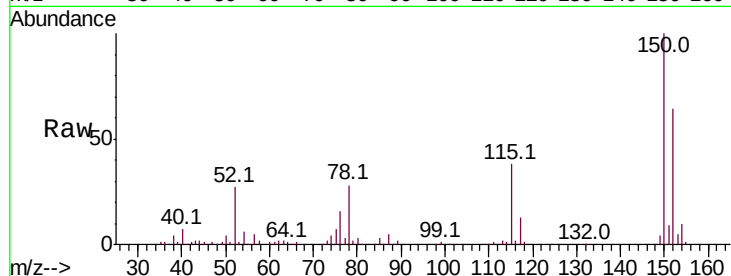


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.05 min Scan# 810  
Delta R.T. -0.02 min  
Lab File: BG036831.D  
Acq: 19 Sep 2018 22:34

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.8 | 119.5 | 179.3 |
| 115     | 60.0  | 44.5  | 66.7  |

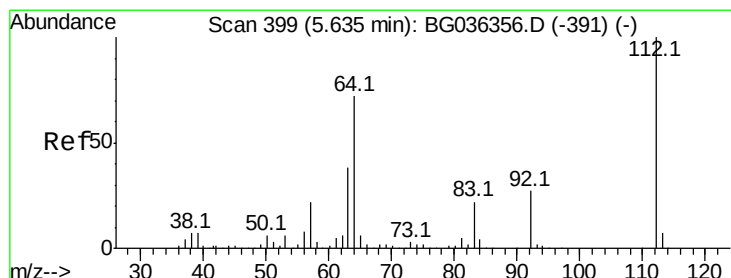
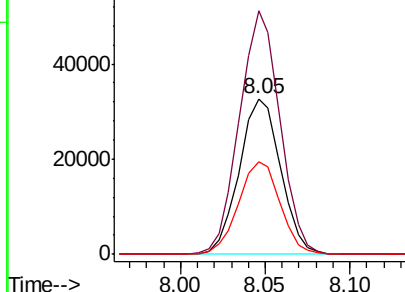
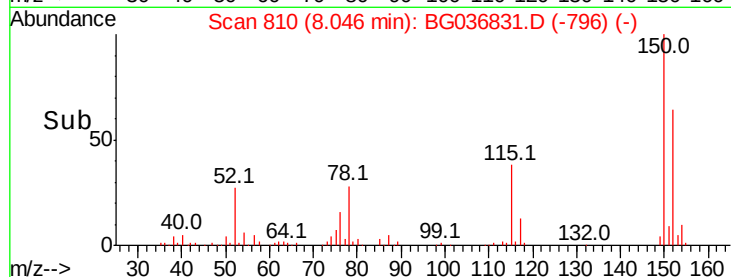


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

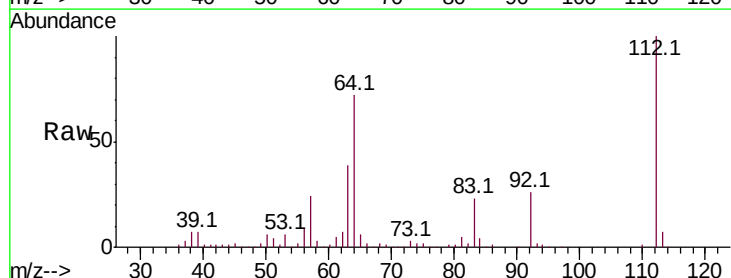
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 101.057 ng  
RT: 5.62 min Scan# 397  
Delta R.T. -0.01 min  
Lab File: BG036831.D  
Acq: 19 Sep 2018 22:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 71.8  | 57.2  | 85.8  |
| 63      | 39.4  | 30.8  | 46.2  |

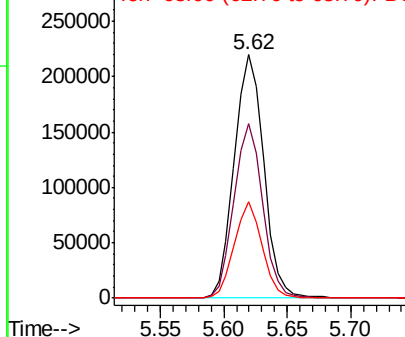
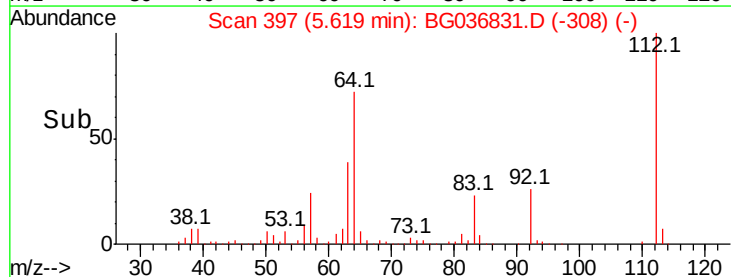


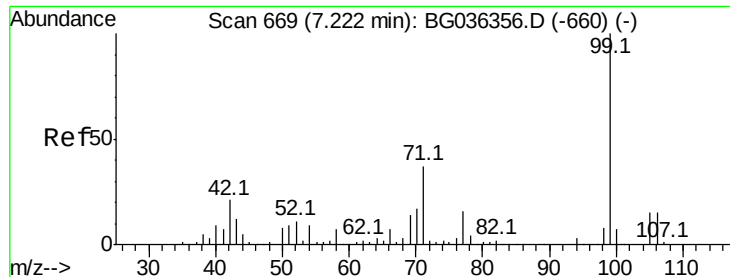
Abundance

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: 89.734 ng

RT: 7.21 min Scan# 667

Delta R.T. -0.01 min

Lab File: BG036831.D

Acq: 19 Sep 2018 22:34

Instrument :

BNA\_G

ClientSampleId :

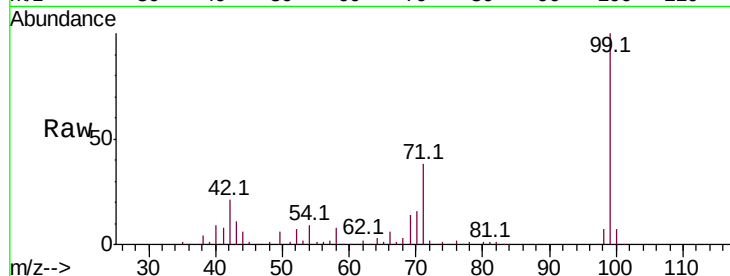
Tot Ion: 99 Resp: 450289

Ion Ratio Lower Upper

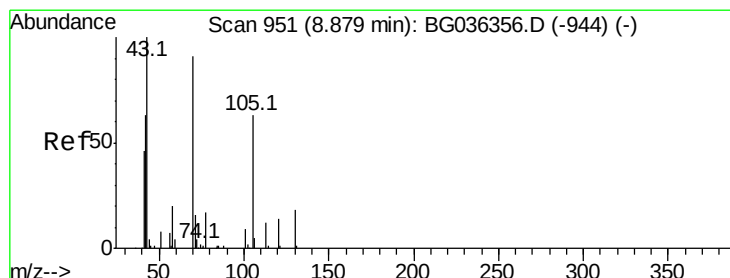
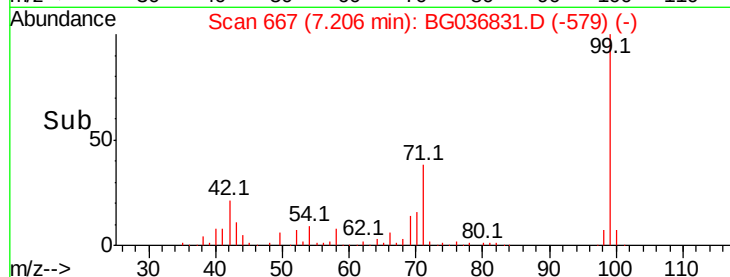
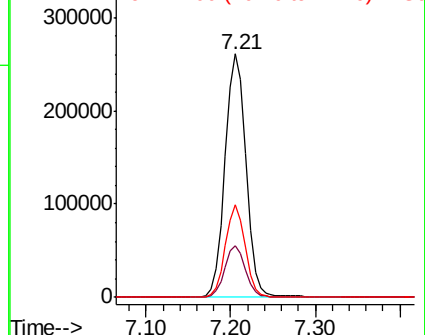
99 100

42 21.4 16.5 24.7

71 38.1 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: 12.627 ng

RT: 9.21 min Scan# 1008

Delta R.T. 0.35 min

Lab File: BG036831.D

Acq: 19 Sep 2018 22:34

Tgt Ion: 70 Resp: 47355

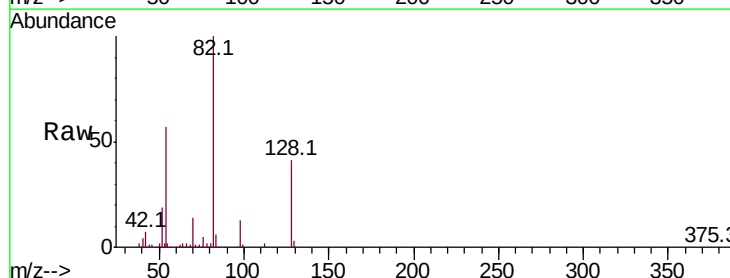
Ion Ratio Lower Upper

70 100

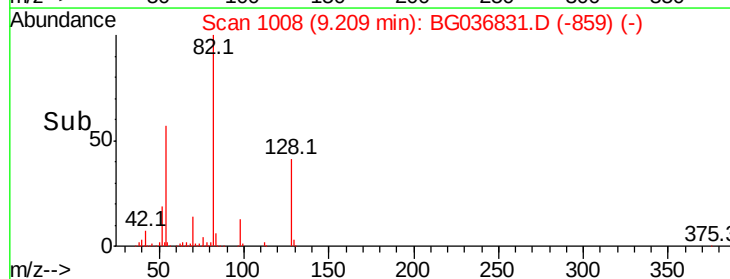
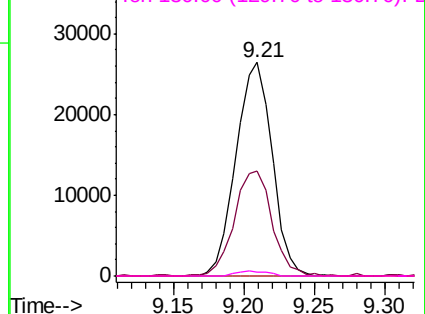
42 48.9 56.2 84.4#

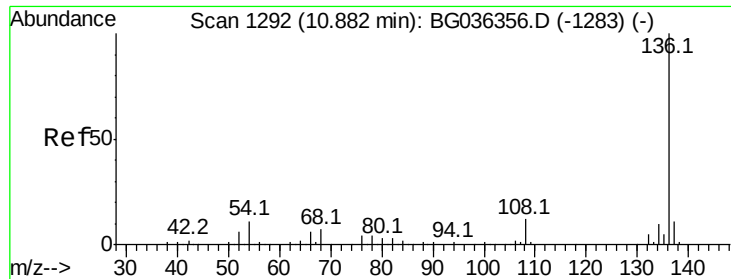
101 0.0 7.8 11.6#

130 1.9 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

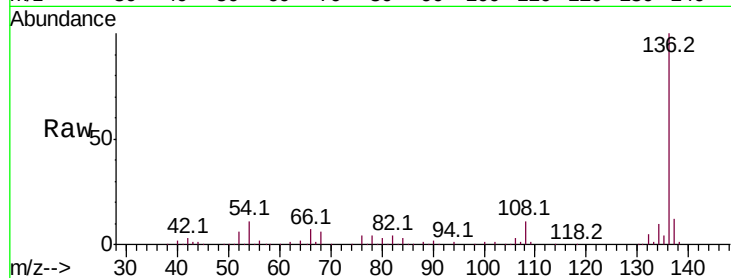




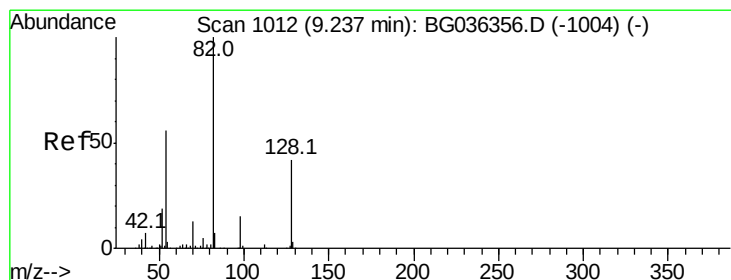
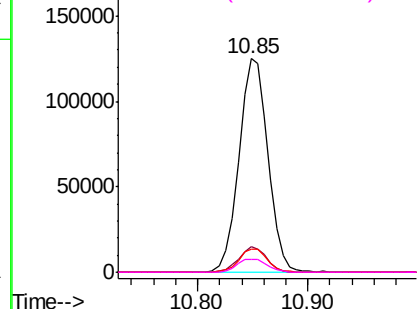
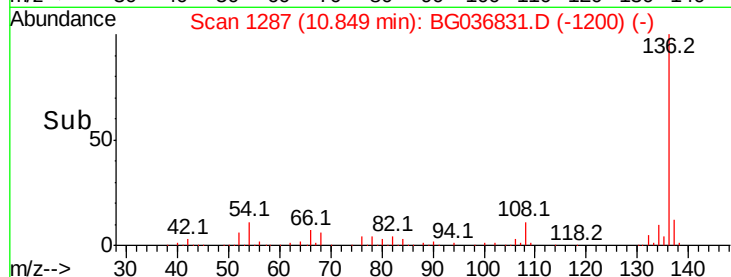
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.85 min Scan# 1287  
Delta R.T. -0.02 min  
Lab File: BG036831.D  
Acq: 19 Sep 2018 22:34

Instrument :  
BNA\_G  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 230318 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 12.0  | 8.8   | 13.2   |
| 54       | 10.8  | 9.2   | 13.8   |
| 68       | 5.8   | 5.8   | 8.6    |

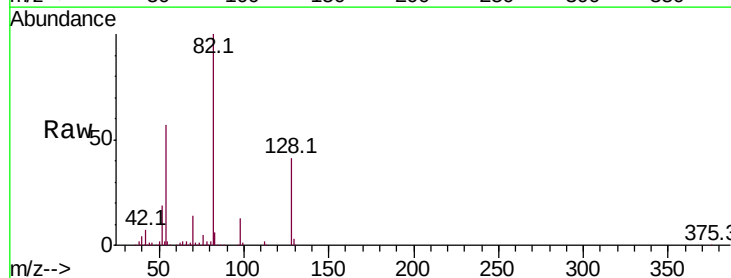


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BG  
Ion 68.00 (67.70 to 68.70): BG

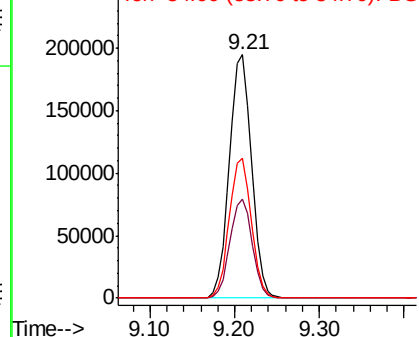
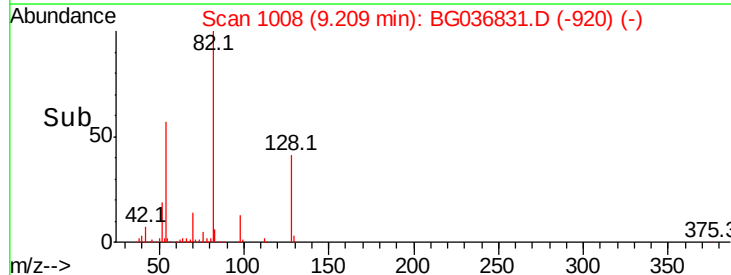


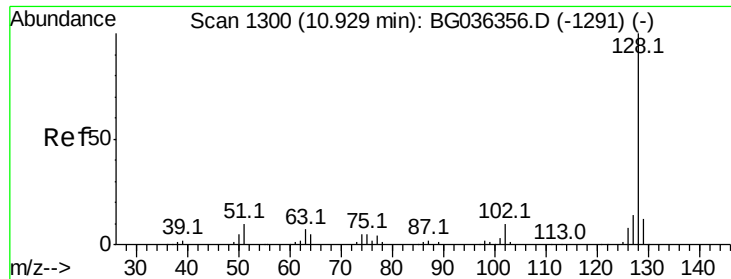
#23  
Nitrobenzene-d5  
Concen: 82.962 ng  
RT: 9.21 min Scan# 1008  
Delta R.T. -0.01 min  
Lab File: BG036831.D  
Acq: 19 Sep 2018 22:34

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 352169 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 40.9  | 33.3  | 49.9   |
| 54       | 57.3  | 45.1  | 67.7   |



Abundance Ion 82.00 (81.70 to 82.70): BG  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BG

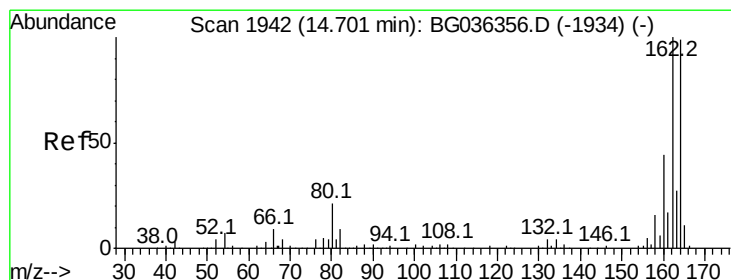
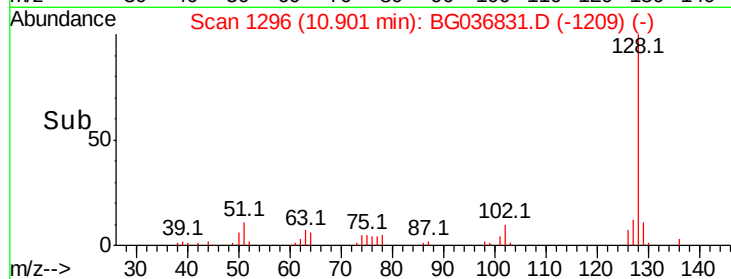
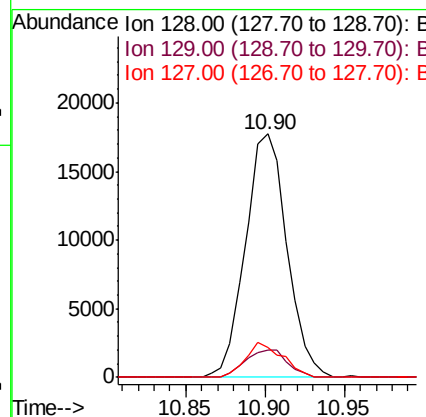
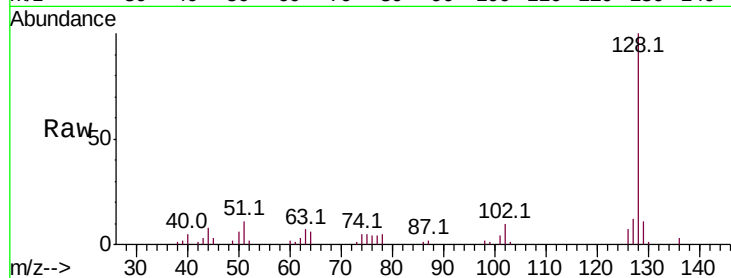




#31  
Naphthalene  
Concen: 2.806 ng  
RT: 10.90 min Scan# 1296  
Delta R.T. -0.02 min  
Lab File: BG036831.D  
Acq: 19 Sep 2018 22:34

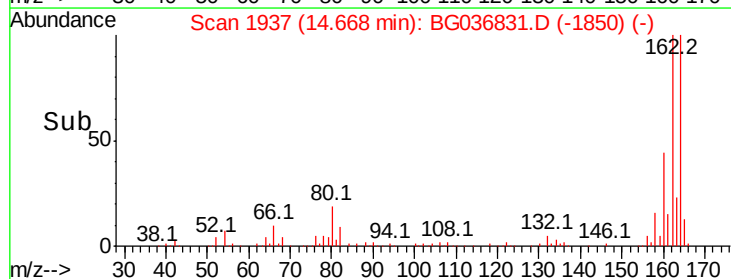
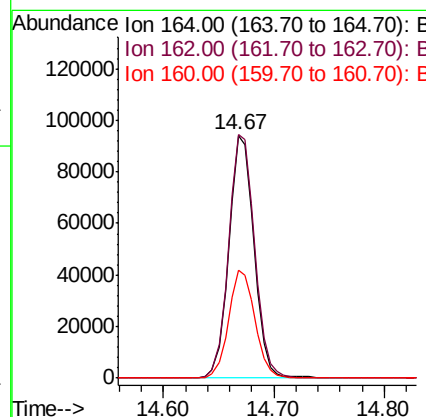
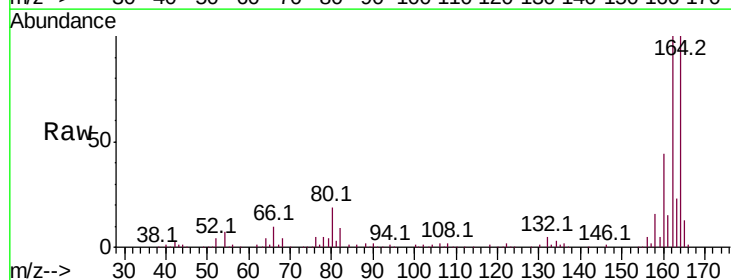
Instrument :  
BNA\_G  
ClientSampleId :

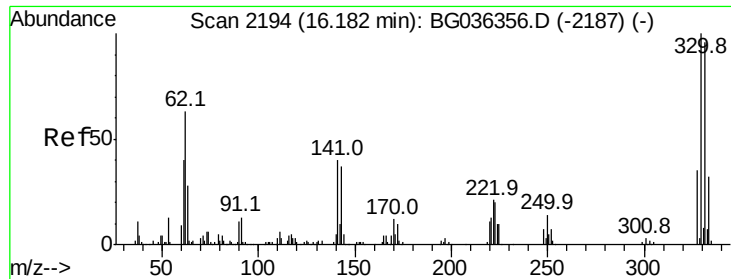
Tot Ion:128 Resp: 32310  
Ion Ratio Lower Upper  
128 100  
129 11.1 9.4 14.2  
127 12.3 11.0 16.4



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.67 min Scan# 1937  
Delta R.T. -0.02 min  
Lab File: BG036831.D  
Acq: 19 Sep 2018 22:34

Tgt Ion:164 Resp: 149713  
Ion Ratio Lower Upper  
164 100  
162 100.4 80.7 121.1  
160 44.5 35.3 52.9

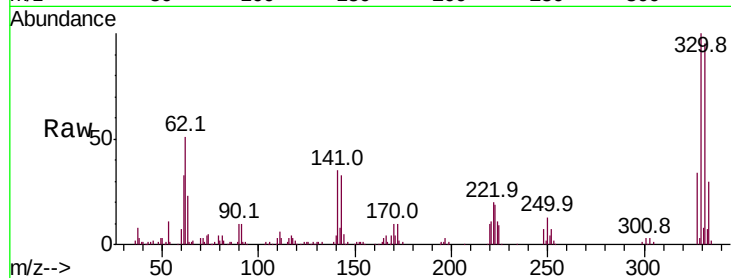




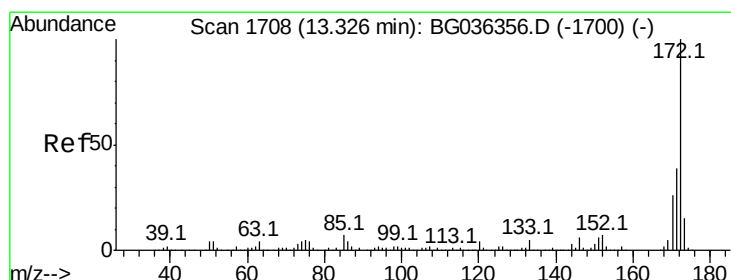
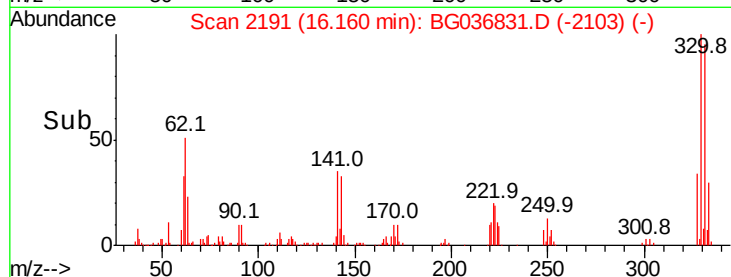
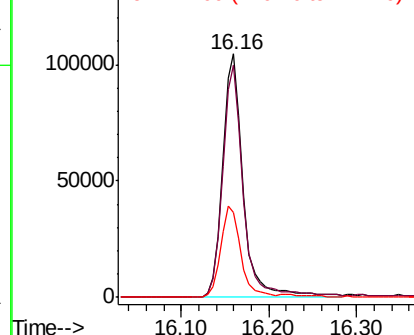
#41  
 2,4,6-Tribromophenol  
 Concen: 96.037 ng  
 RT: 16.16 min Scan# 2191  
 Delta R.T. -0.01 min  
 Lab File: BG036831.D  
 Acq: 19 Sep 2018 22:34

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.3  | 75.4  | 113.2 |
| 141     | 38.1  | 30.7  | 46.1  |

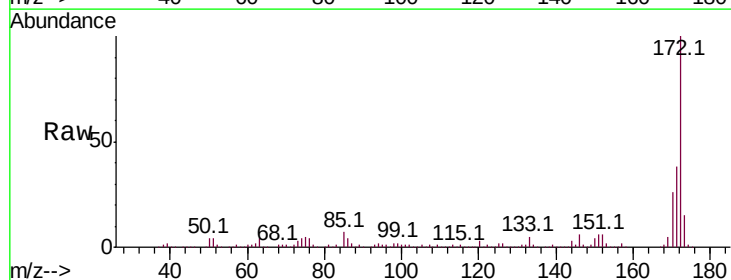


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

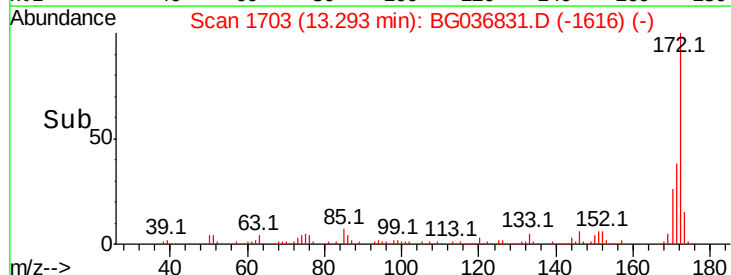
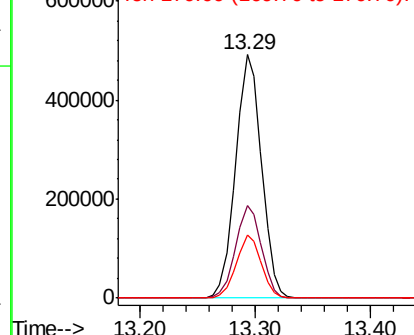


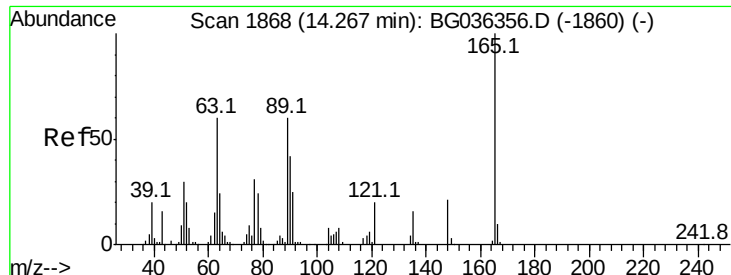
#44  
 2-Fluorobiphenyl  
 Concen: 73.116 ng  
 RT: 13.29 min Scan# 1703  
 Delta R.T. -0.02 min  
 Lab File: BG036831.D  
 Acq: 19 Sep 2018 22:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.1  | 31.3  | 46.9  |
| 170     | 25.9  | 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

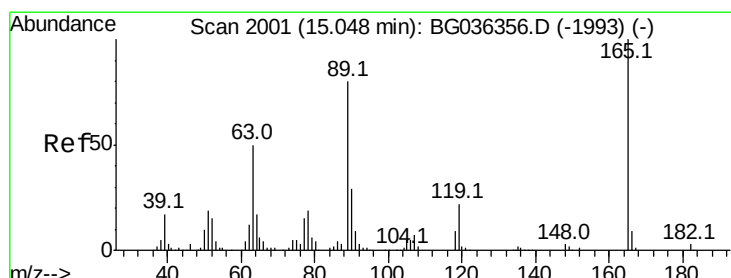
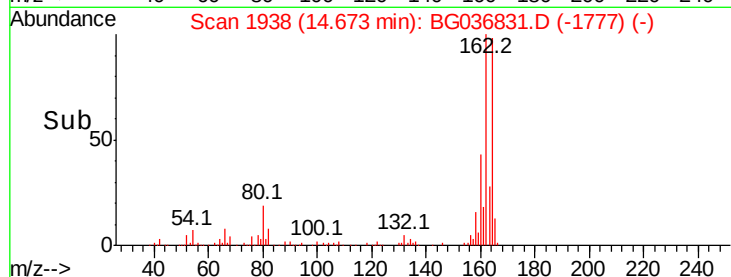
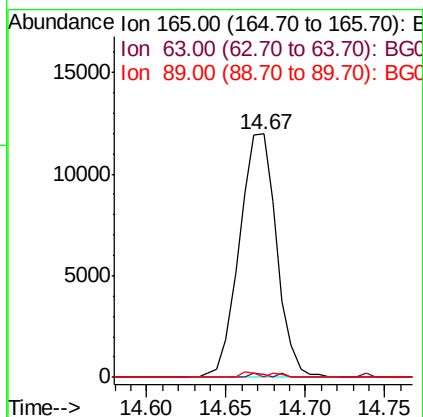
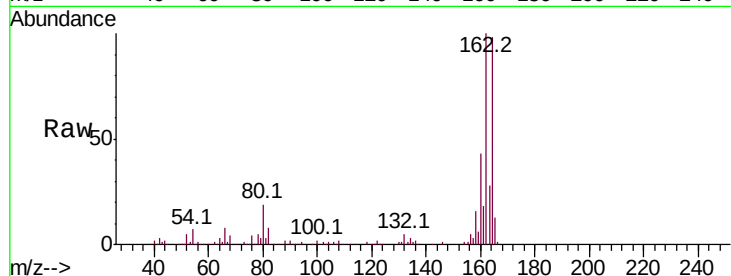




#50  
 2,6-Dinitrotoluene  
 Concen: 7.751 ng  
 RT: 14.67 min Scan# 1938  
 Delta R.T. 0.42 min  
 Lab File: BG036831.D  
 Acq: 19 Sep 2018 22:34

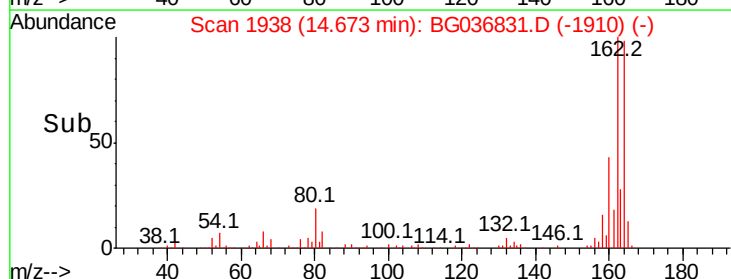
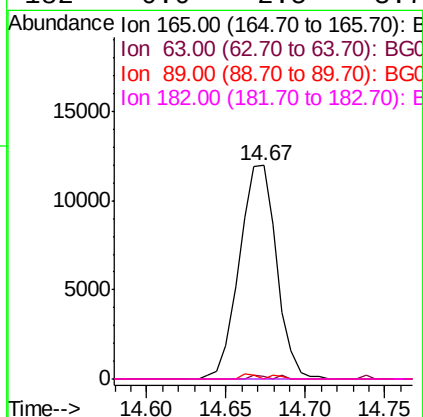
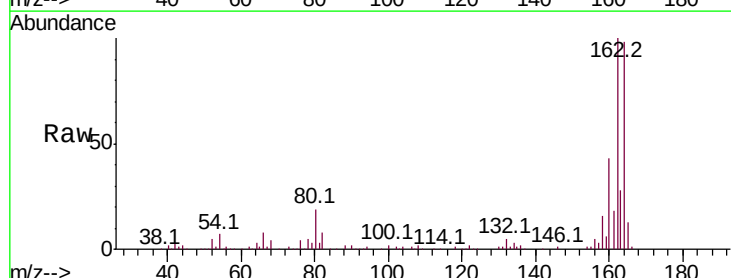
Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.5   | 50.1  | 75.1# |
| 89      | 0.0   | 47.8  | 71.6# |

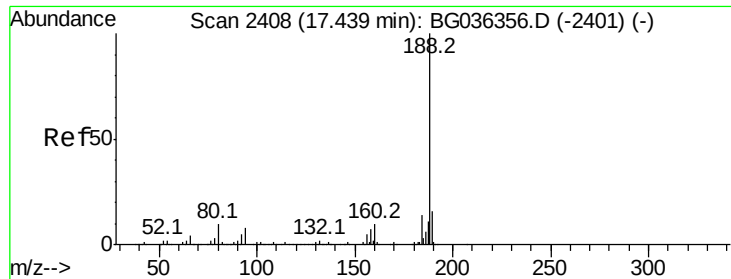


#56  
 2,4-Dinitrotoluene  
 Concen: 5.948 ng  
 RT: 14.67 min Scan# 1938  
 Delta R.T. -0.36 min  
 Lab File: BG036831.D  
 Acq: 19 Sep 2018 22:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.5   | 40.1  | 60.1# |
| 89      | 0.0   | 63.7  | 95.5# |
| 182     | 0.0   | 2.5   | 3.7#  |







#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.41 min Scan# 2404

Delta R.T. -0.02 min

Lab File: BG036831.D

Acq: 19 Sep 2018 22:34

Instrument :

BNA\_G

ClientSampleId :

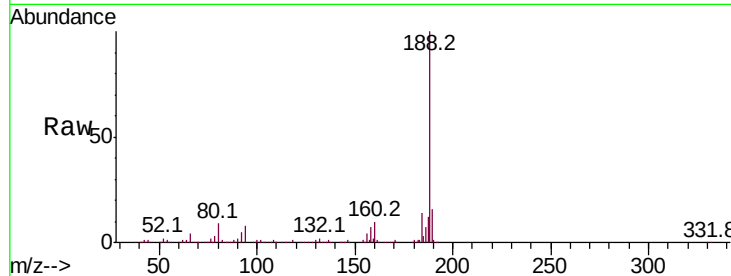
Tot Ion:188 Resp: 362222

Ion Ratio Lower Upper

188 100

94 7.6 6.7 10.1

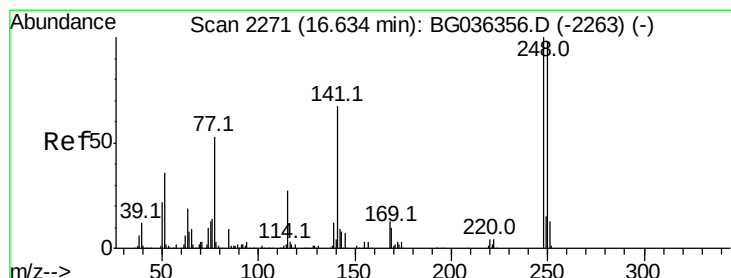
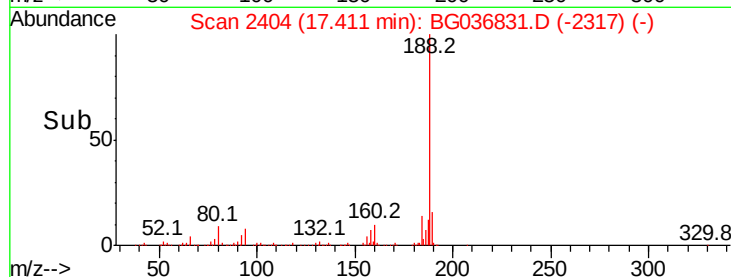
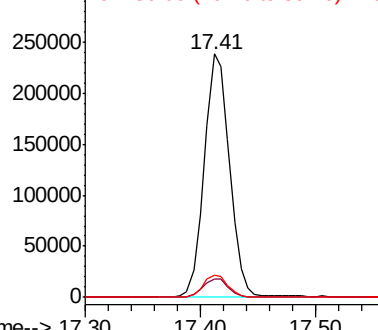
80 9.3 8.1 12.1



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG



#66

4-Bromophenyl-phenylether

Concen: 2.725 ng

RT: 16.16 min Scan# 2191

Delta R.T. -0.46 min

Lab File: BG036831.D

Acq: 19 Sep 2018 22:34

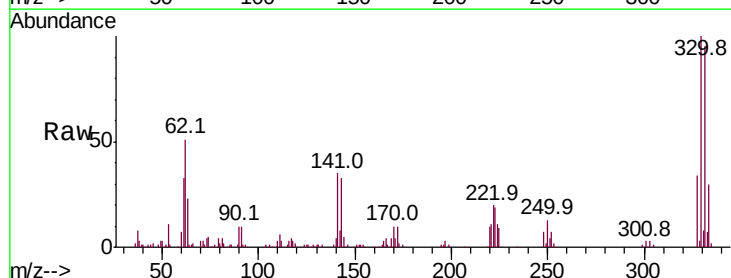
Tgt Ion:248 Resp: 11555

Ion Ratio Lower Upper

248 100

250 200.7 78.1 117.1#

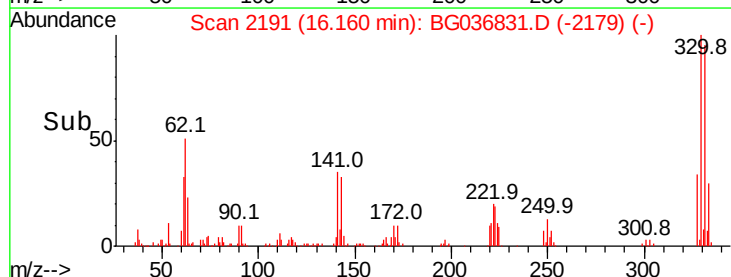
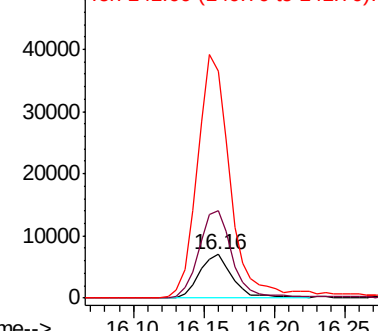
141 524.1 53.7 80.5#

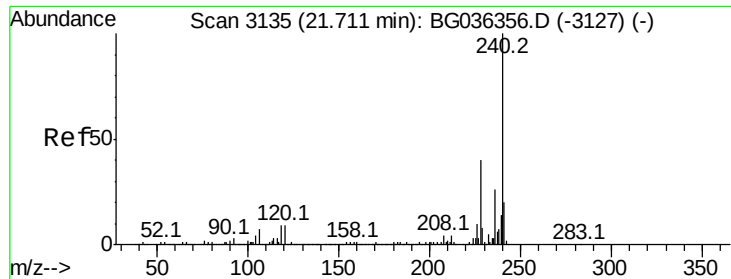


Abundance Ion 248.00 (247.70 to 248.70): E

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# 3130

Delta R.T. -0.02 min

Lab File: BG036831.D

Acq: 19 Sep 2018 22:34

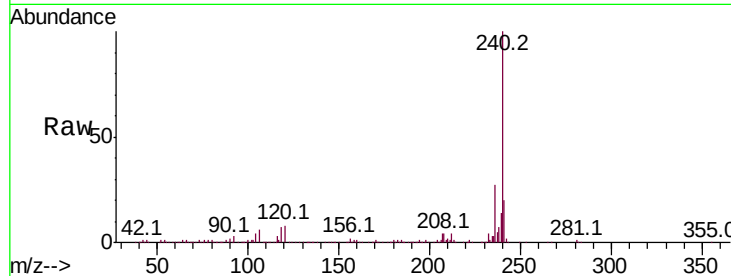
Instrument :

BNA\_G

ClientSampled :

Tot Ion:240 Resp: 374787

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 240 | 100   |       |       |
| 120 | 8.3   | 6.9   | 10.3  |
| 236 | 26.6  | 21.2  | 31.8  |

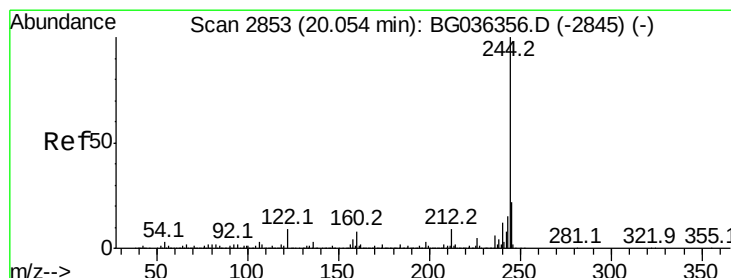
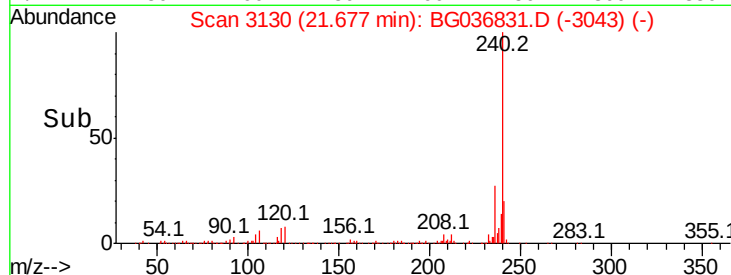
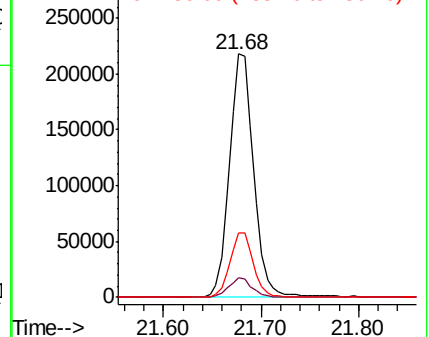


Abundance

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



#78

Terphenyl-d14

Concen: 78.265 ng

RT: 20.02 min Scan# 2848

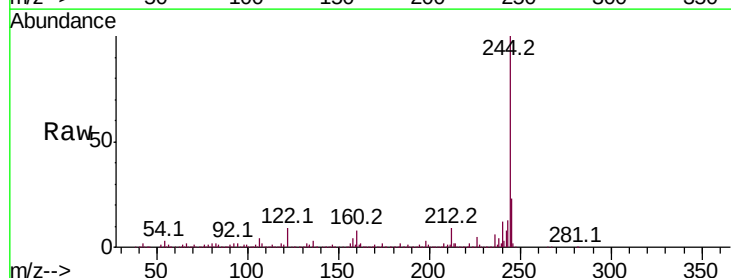
Delta R.T. -0.01 min

Lab File: BG036831.D

Acq: 19 Sep 2018 22:34

Tgt Ion:244 Resp: 1254956

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 8.9   | 7.0   | 10.6  |
| 122 | 9.3   | 7.1   | 10.7  |

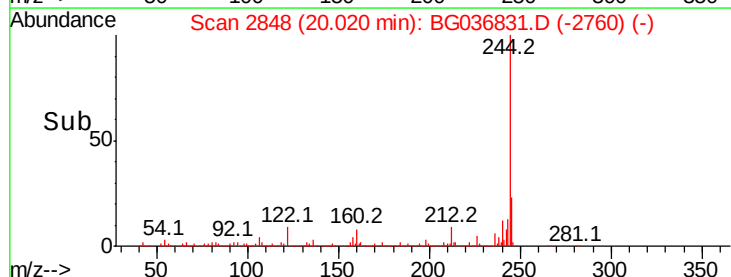
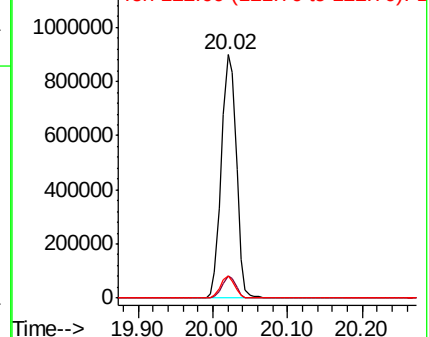


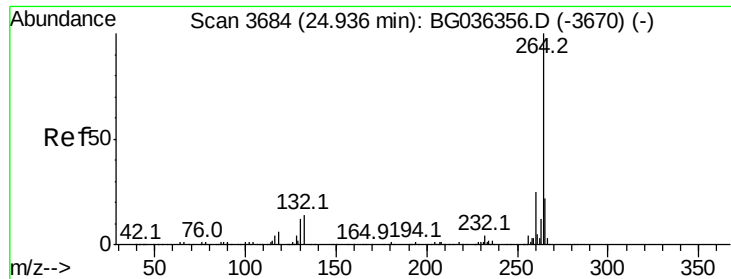
Abundance

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: BG036831.D  
Acq: 19 Sep 2018 22:34

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 21.6  | 19.6  | 29.4  |
| 265     | 20.6  | 17.4  | 26.0  |

