

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG112618\  
 Data File : BG038159.D  
 Acq On : 27 Nov 2018 7:36  
 Operator : JU/SJ  
 Sample : J6061-06  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Nov 27 09:42:54 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG111318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 13 16:39:28 2018  
 Response via : Initial Calibration

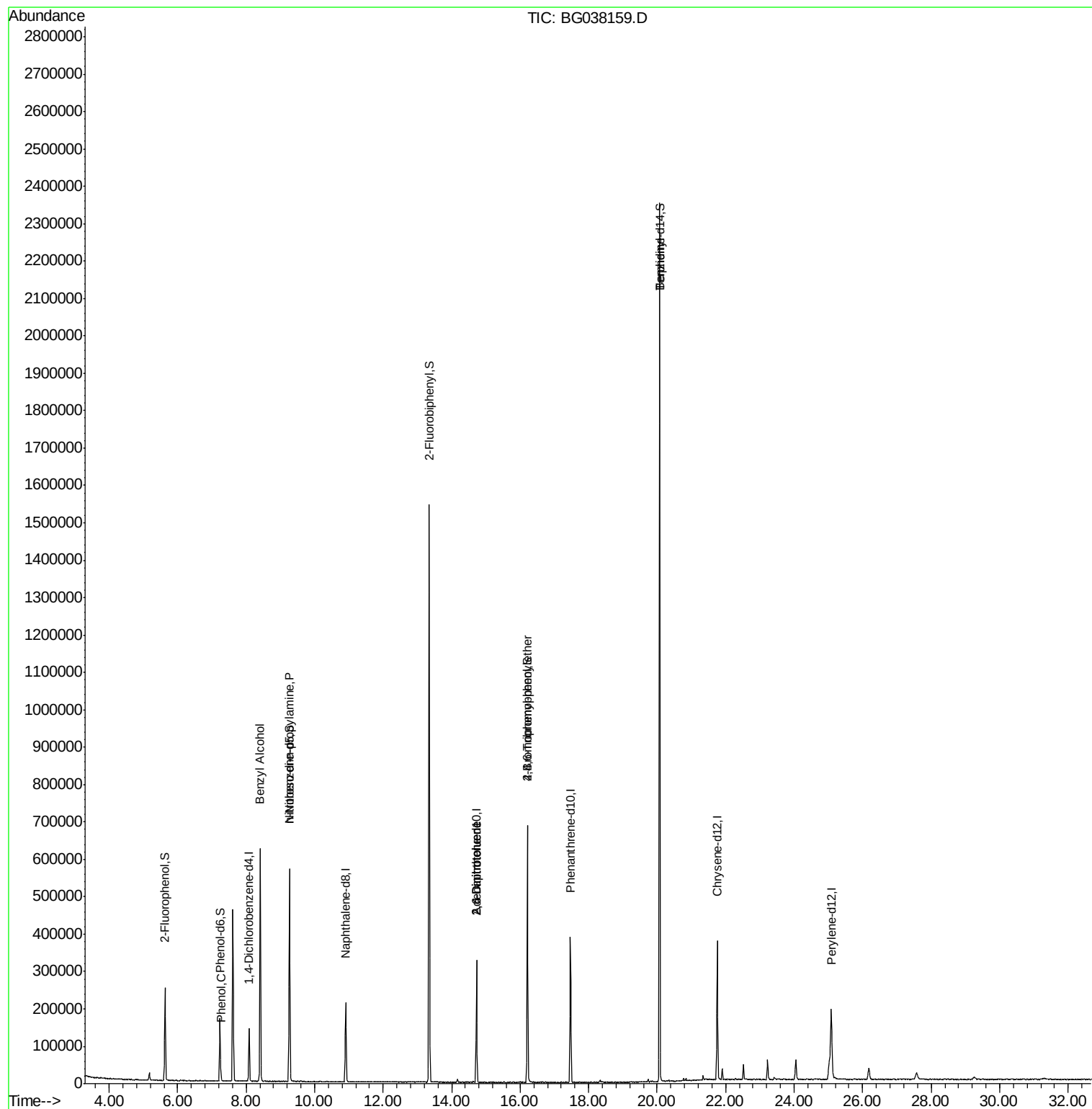
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.08  | 152  | 41342    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.91 | 136  | 183060   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.72 | 164  | 117131   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.47 | 188  | 256584   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.76 | 240  | 241217   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 25.08 | 264  | 238210   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.63  | 112  | 115262   | 48.14  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.23  | 99   | 100878   | 29.51  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.27  | 82   | 359871   | 105.23 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.21 | 330  | 123845   | 92.71  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.34 | 172  | 804887   | 100.11 | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.07 | 244  | 1108954  | 108.18 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 7.26  | 94   | 8231     | 2.274  | ng    | 91       |
| 15) Benzyl Alcohol             | 8.41  | 79   | 5396     | 2.182  | ng    | # 55     |
| 19) n-Nitroso-di-n-propylamine | 9.27  | 70   | 46270    | 18.709 | ng    | # 74     |
| 51) 2,6-Dinitrotoluene         | 14.72 | 165  | 15402    | 7.329  | ng    | # 23     |
| 57) 2,4-Dinitrotoluene         | 14.72 | 165  | 15402    | 5.386  | ng    | # 23     |
| 67) 4-Bromophenyl-phenylether  | 16.21 | 248  | 9067     | 3.220  | ng    | # 1      |
| 77) Benzidine                  | 20.07 | 184  | 19025    | 2.248  | ng    | # 90     |

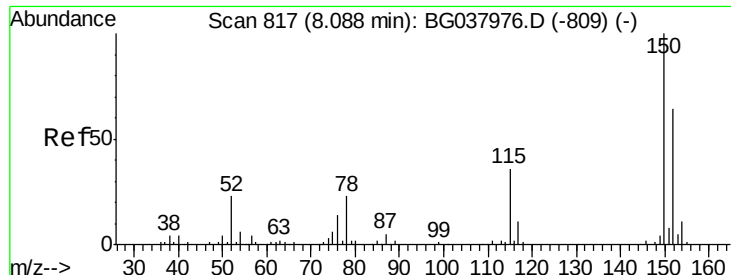
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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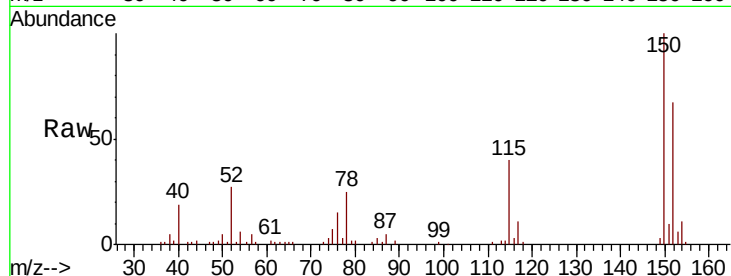


#1

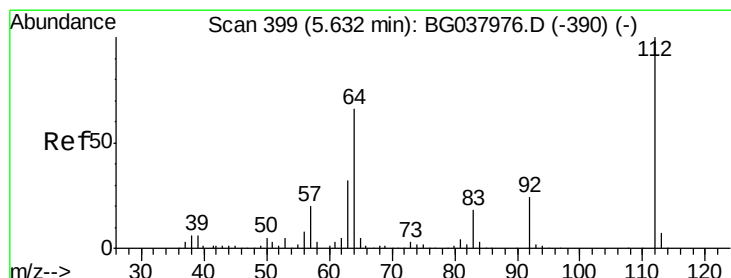
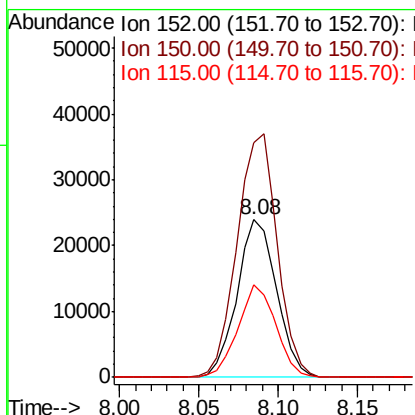
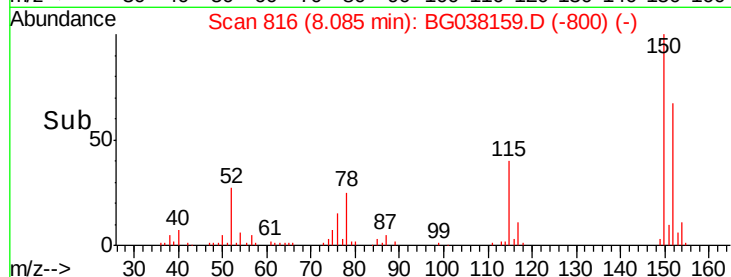
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.08 min Scan# 816  
Delta R.T. -0.00 min  
Lab File: BG038159.D  
Acq: 27 Nov 2018 7:36

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 41342  
Ion Ratio Lower Upper  
152 100  
150 148.8 126.0 189.0  
115 59.2 45.5 68.3



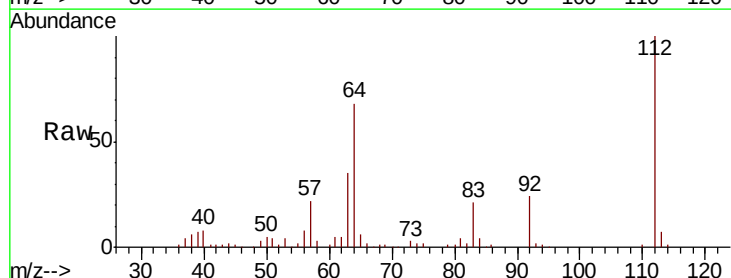
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



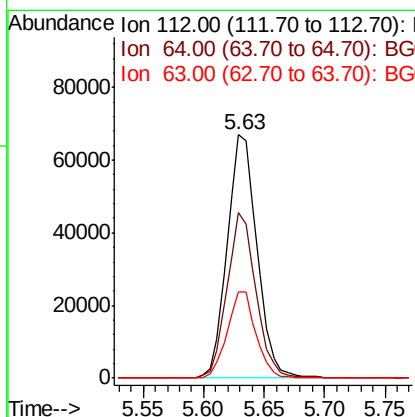
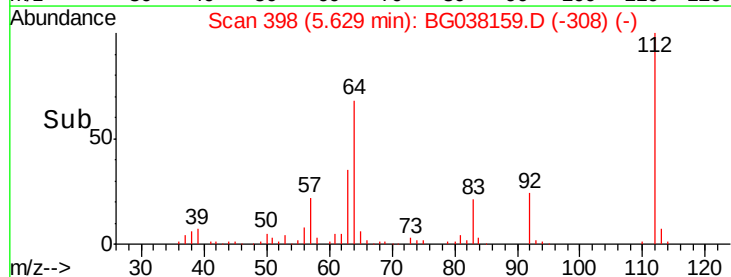
#5

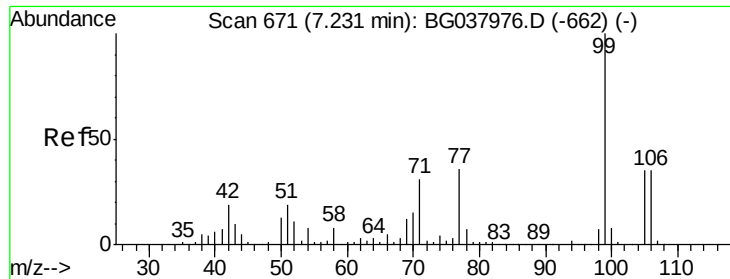
2-Fluorophenol  
Concen: 48.137 ng  
RT: 5.63 min Scan# 398  
Delta R.T. -0.00 min  
Lab File: BG038159.D  
Acq: 27 Nov 2018 7:36

Tgt Ion:112 Resp: 115262  
Ion Ratio Lower Upper  
112 100  
64 67.9 53.1 79.7  
63 35.2 27.3 40.9



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: 29.514 ng

RT: 7.23 min Scan# 671

Delta R.T. 0.00 min

Lab File: BG038159.D

Acq: 27 Nov 2018 7:36

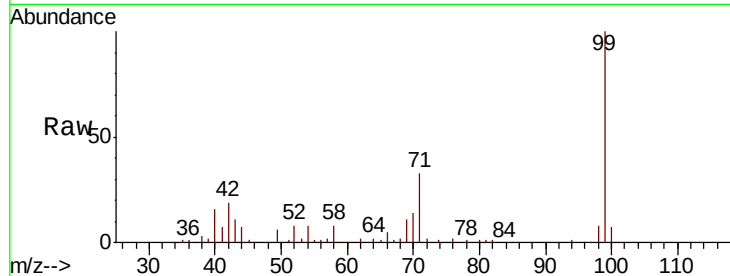
Instrument :

BNA\_G

ClientSampleId :

Tot Ion: 99 Resp: 100878

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 19.3  | 15.0  | 22.4  |
| 71  | 32.6  | 25.5  | 38.3  |

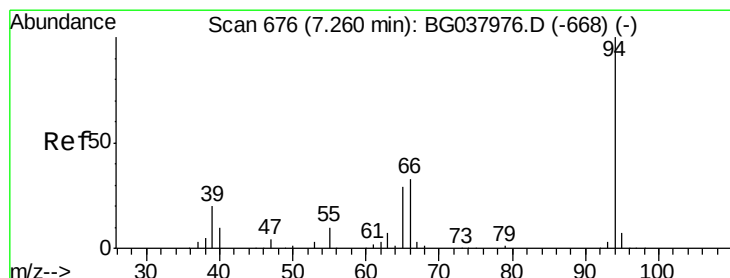
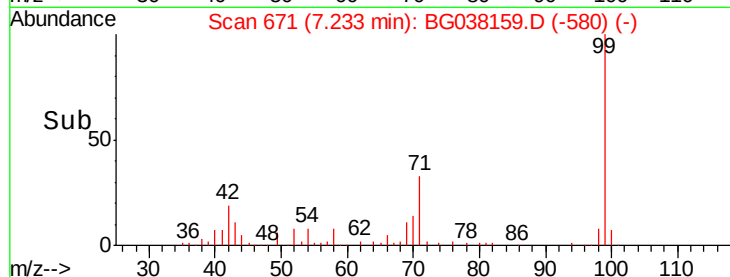
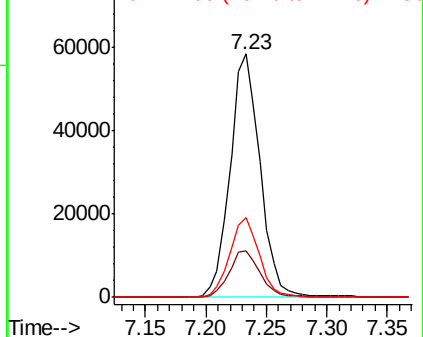


Abundance

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



#10

Phenol

Concen: 2.274 ng

RT: 7.26 min Scan# 676

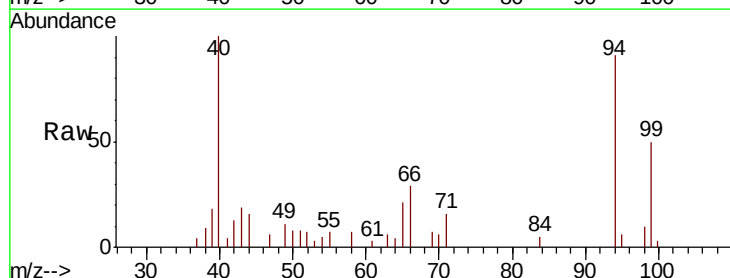
Delta R.T. 0.00 min

Lab File: BG038159.D

Acq: 27 Nov 2018 7:36

Tgt Ion: 94 Resp: 8231

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 22.8  | 9.7   | 49.7  |
| 66  | 32.0  | 15.9  | 55.9  |

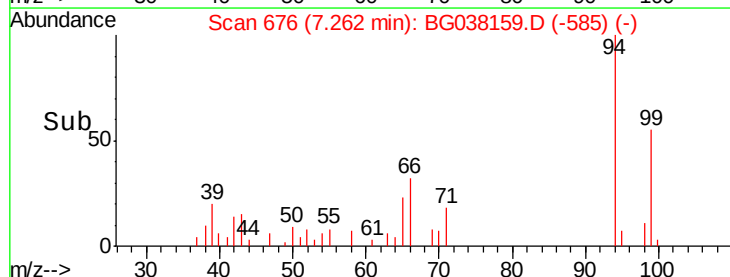
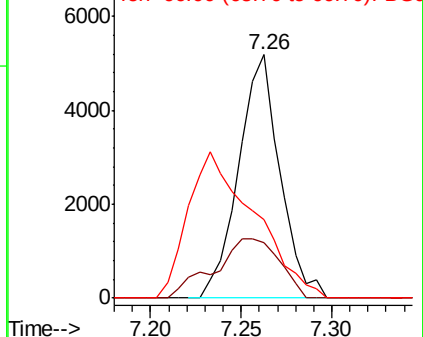


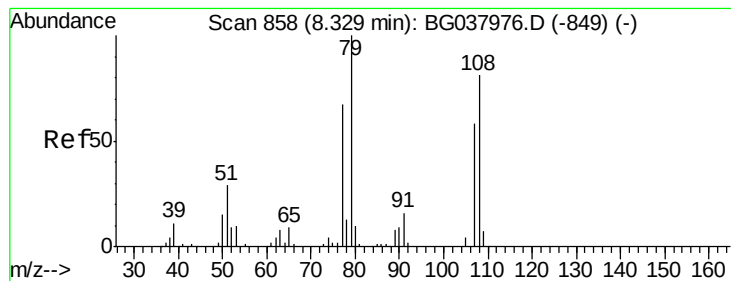
Abundance

Ion 94.00 (93.70 to 94.70): BGC

Ion 65.00 (64.70 to 65.70): BGC

Ion 66.00 (65.70 to 66.70): BGC





#15

Benzyl Alcohol

Concen: 2.182 ng

RT: 8.41 min Scan# 871

Delta R.T. 0.08 min

Lab File: BG038159.D

Acq: 27 Nov 2018 7:36

Instrument :

BNA\_G

ClientSampleId :

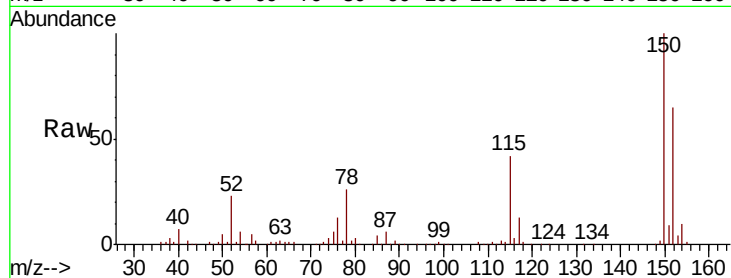
Tot Ion: 79 Resp: 5396

Ion Ratio Lower Upper

79 100

108 31.2 65.8 98.8#

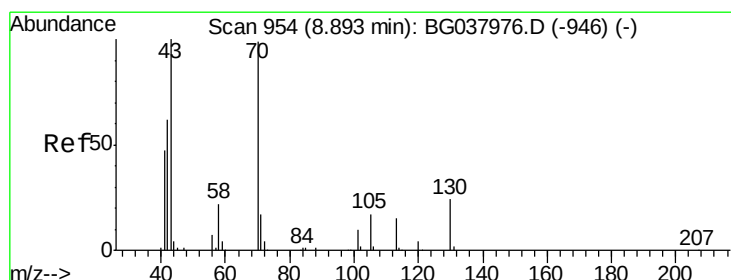
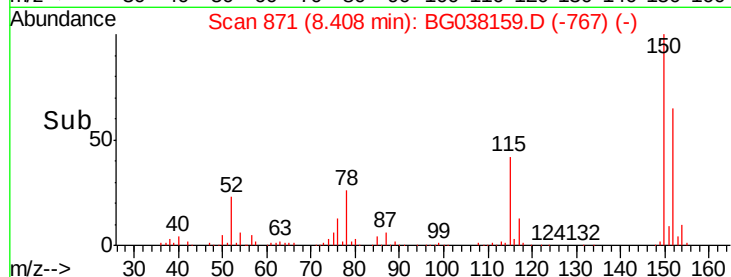
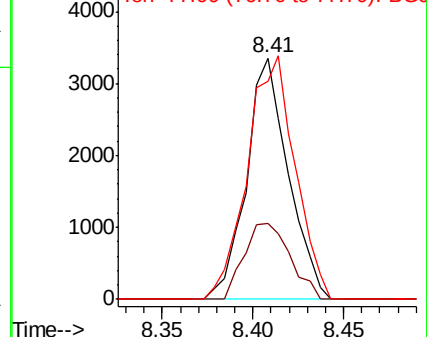
77 90.4 52.9 79.3#



Abundance Ion 79.00 (78.70 to 79.70): BGC

Ion 108.00 (107.70 to 108.70): BGC

Ion 77.00 (76.70 to 77.70): BGC



#19

n-Nitroso-di-n-propylamine

Concen: 18.709 ng

RT: 9.27 min Scan# 1017

Delta R.T. 0.37 min

Lab File: BG038159.D

Acq: 27 Nov 2018 7:36

Tgt Ion: 70 Resp: 46270

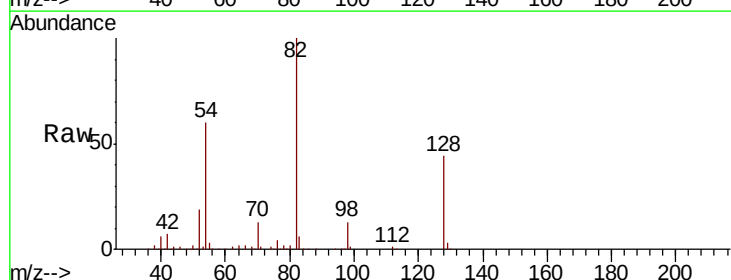
Ion Ratio Lower Upper

70 100

42 51.6 53.9 80.9#

101 0.0 8.2 12.2#

130 2.3 18.2 27.4#

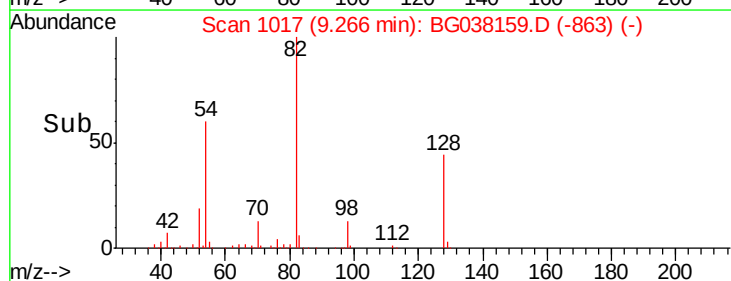
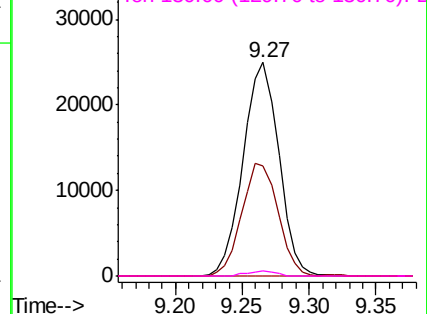


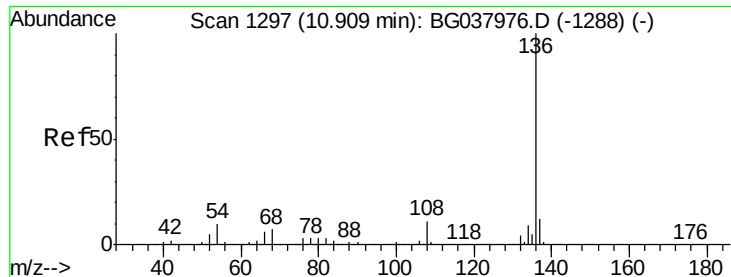
Abundance Ion 70.00 (69.70 to 70.70): BGC

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

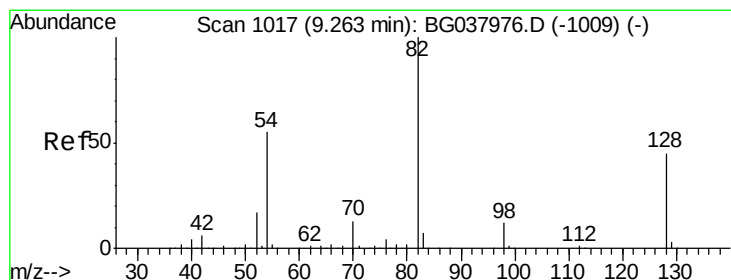
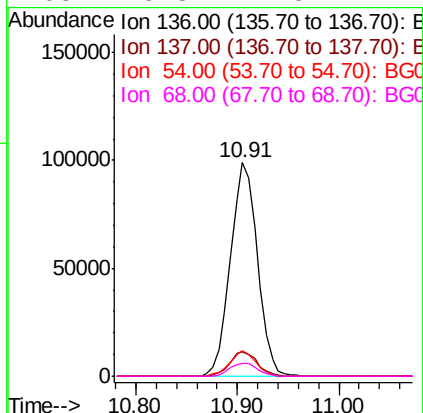
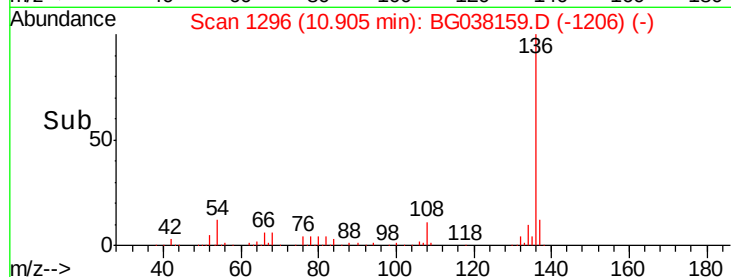
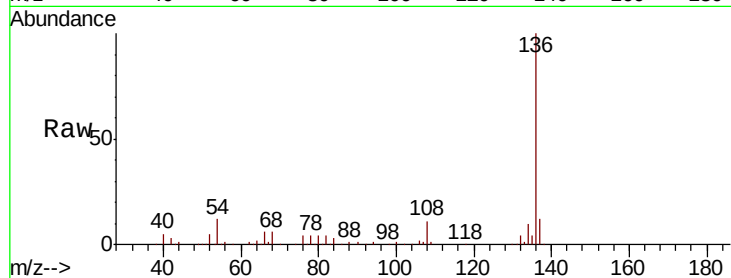




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.91 min Scan# 1296  
Delta R.T. -0.00 min  
Lab File: BG038159.D  
Acq: 27 Nov 2018 7:36

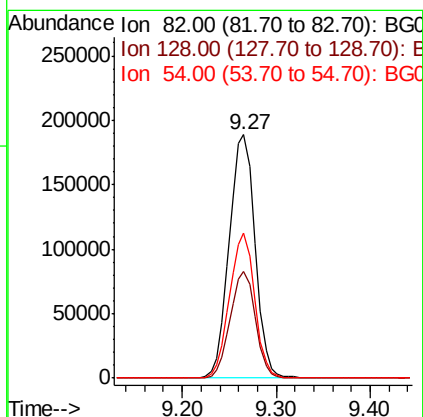
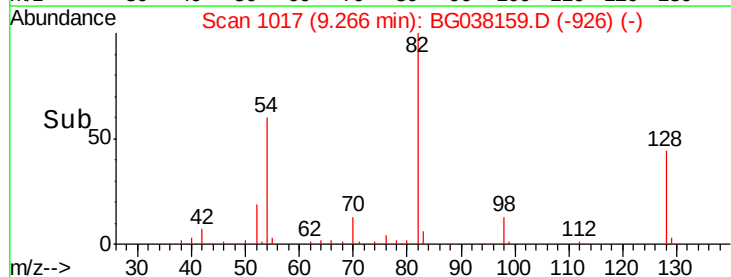
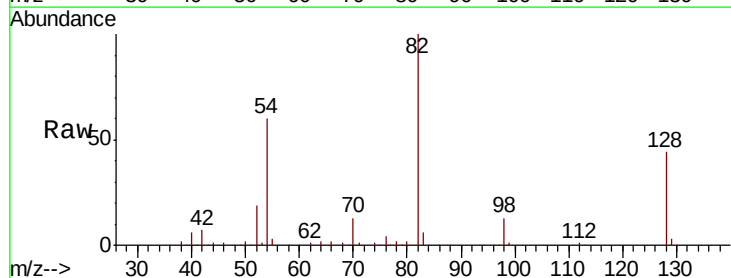
Instrument :  
BNA\_G  
ClientSampleId :

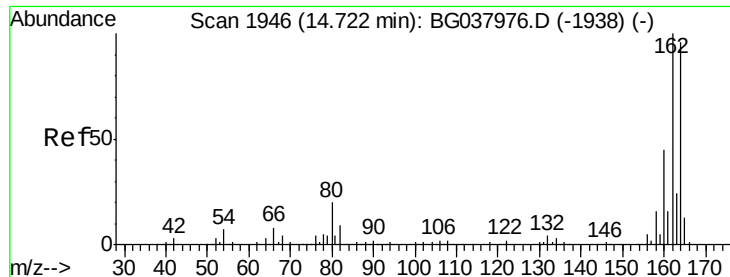
|             |       |           |
|-------------|-------|-----------|
| Tot Ion:136 | Resp: | 183060    |
| Ion Ratio   | Lower | Upper     |
| 136         | 100   |           |
| 137         | 11.6  | 9.6 14.4  |
| 54          | 12.0  | 7.9 11.9# |
| 68          | 5.8   | 4.8 7.2   |



#23  
Nitrobenzene-d5  
Concen: 105.233 ng  
RT: 9.27 min Scan# 1017  
Delta R.T. 0.00 min  
Lab File: BG038159.D  
Acq: 27 Nov 2018 7:36

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 359871    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 43.9  | 34.6 51.8 |
| 54          | 59.8  | 45.3 67.9 |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.72 min Scan# 1945

Delta R.T. -0.00 min

Lab File: BG038159.D

Acq: 27 Nov 2018 7:36

Instrument :

BNA\_G

ClientSampleId :

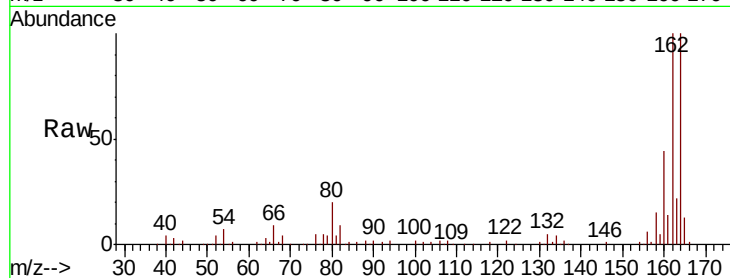
Tot Ion:164 Resp: 117131

Ion Ratio Lower Upper

164 100

162 100.5 81.3 121.9

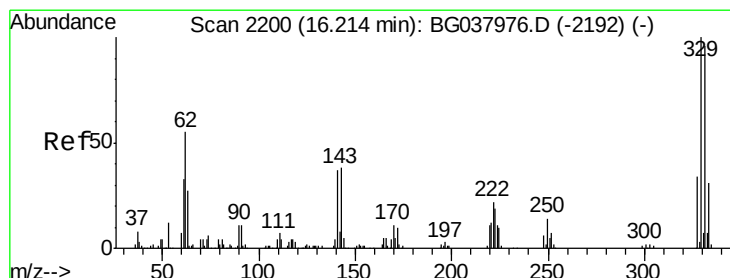
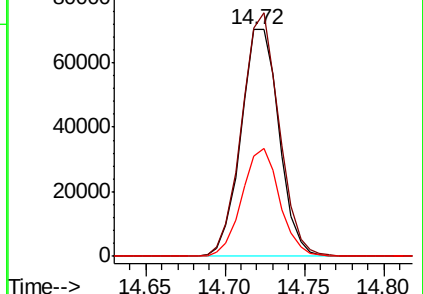
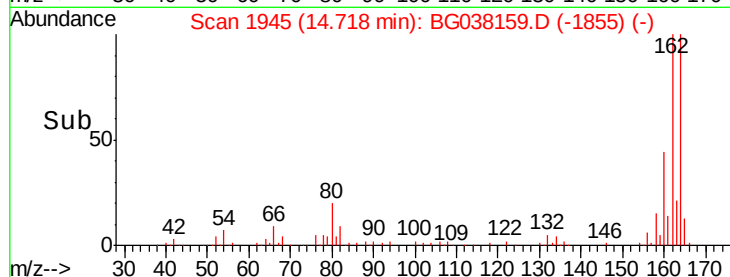
160 44.3 36.3 54.5



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



#42

2,4,6-Tribromophenol

Concen: 92.709 ng

RT: 16.21 min Scan# 2199

Delta R.T. -0.00 min

Lab File: BG038159.D

Acq: 27 Nov 2018 7:36

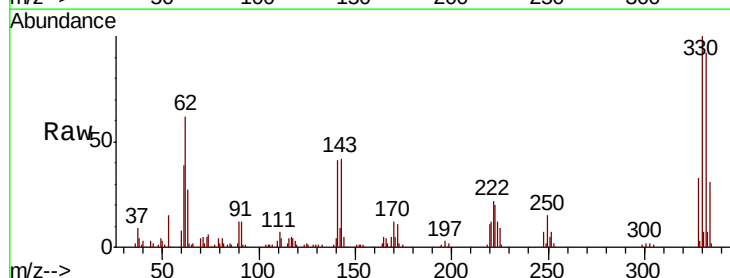
Tgt Ion:330 Resp: 123845

Ion Ratio Lower Upper

330 100

332 94.7 78.4 117.6

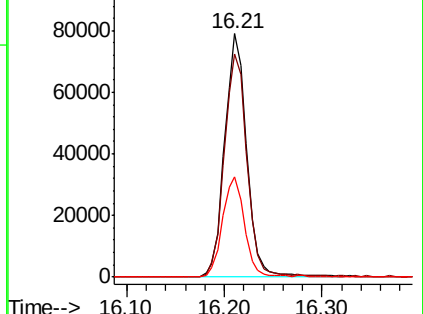
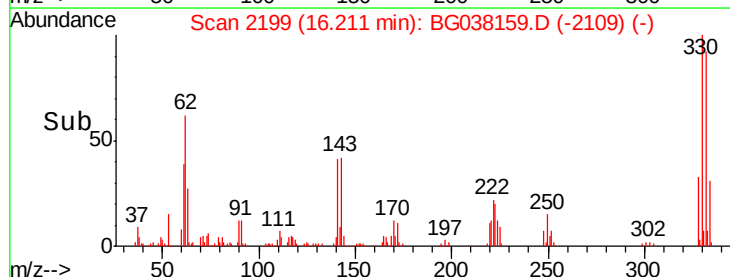
141 41.2 32.2 48.2

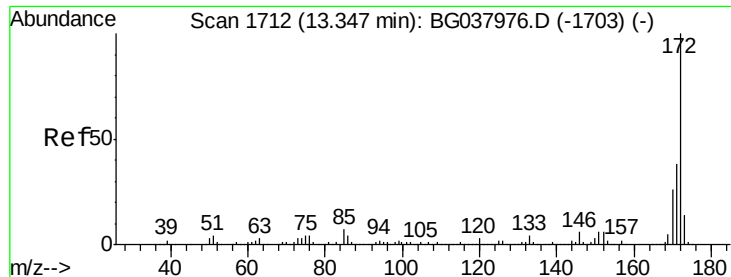


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

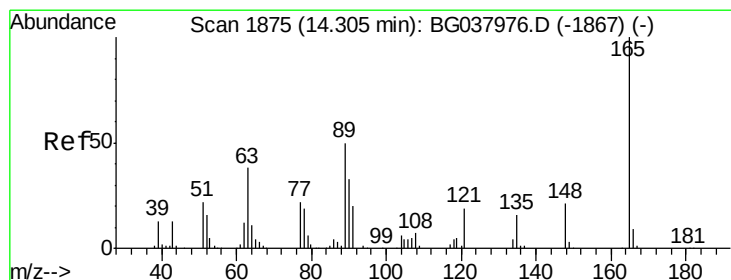
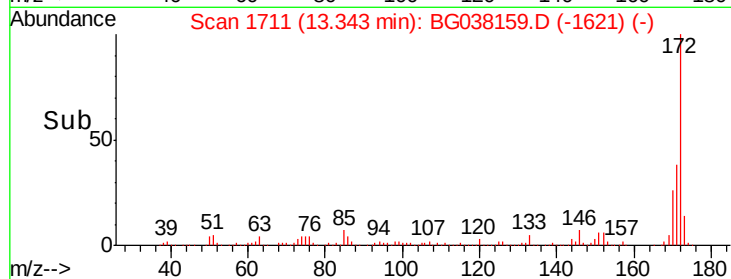
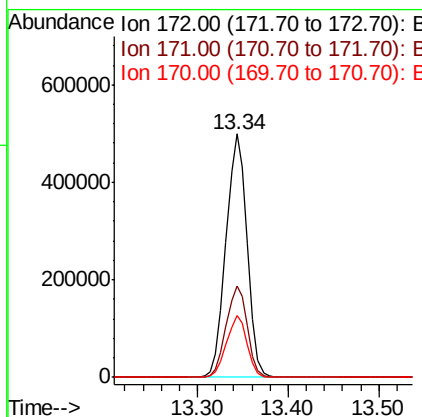
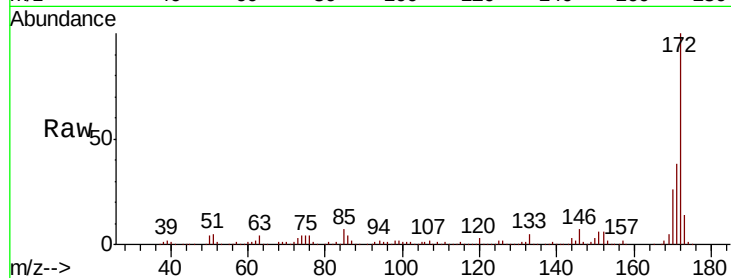




#45  
 2-Fluorobiphenyl  
 Concen: 100.110 ng  
 RT: 13.34 min Scan# 1711  
 Delta R.T. -0.00 min  
 Lab File: BG038159.D  
 Acq: 27 Nov 2018 7:36

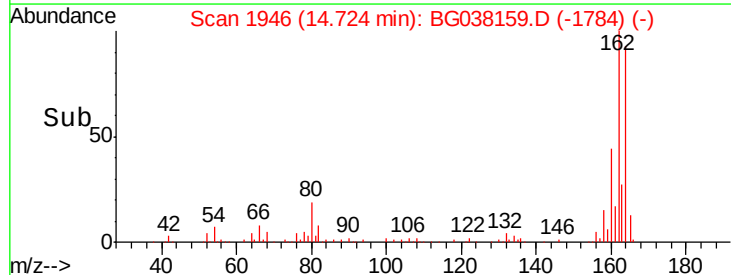
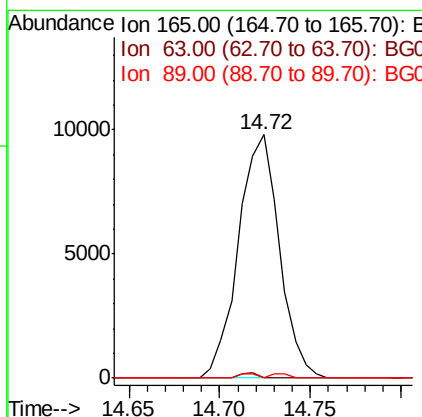
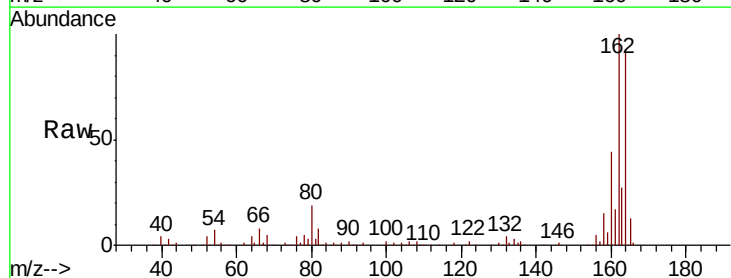
Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.6  | 31.0  | 46.4  |
| 170     | 25.6  | 20.2  | 30.2  |

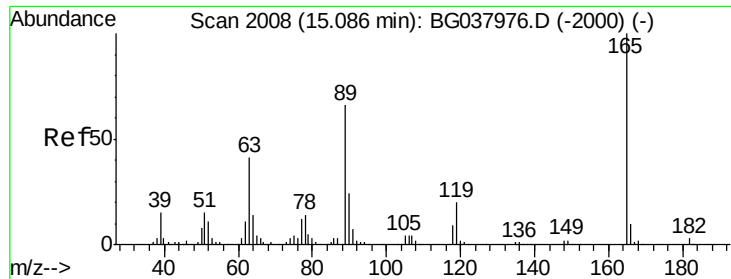


#51  
 2,6-Dinitrotoluene  
 Concen: 7.329 ng  
 RT: 14.72 min Scan# 1946  
 Delta R.T. 0.42 min  
 Lab File: BG038159.D  
 Acq: 27 Nov 2018 7:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 43.4  | 65.2# |
| 89      | 0.0   | 45.8  | 68.6# |



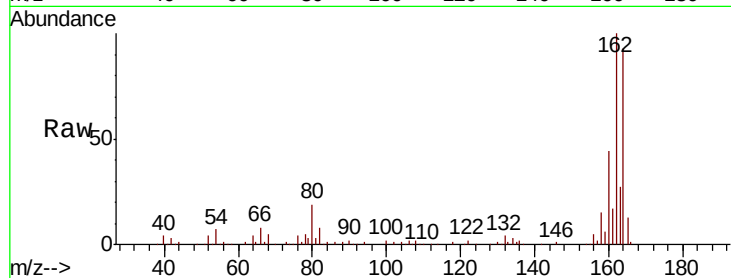




#57  
 2,4-Dinitrotoluene  
 Concen: 5.386 ng  
 RT: 14.72 min Scan# 1946  
 Delta R.T. -0.36 min  
 Lab File: BG038159.D  
 Acq: 27 Nov 2018 7:36

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 33.4  | 50.0# |
| 89      | 0.0   | 57.2  | 85.8# |
| 182     | 0.0   | 2.6   | 4.0#  |

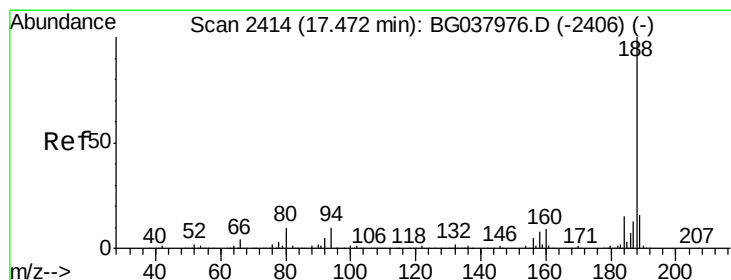
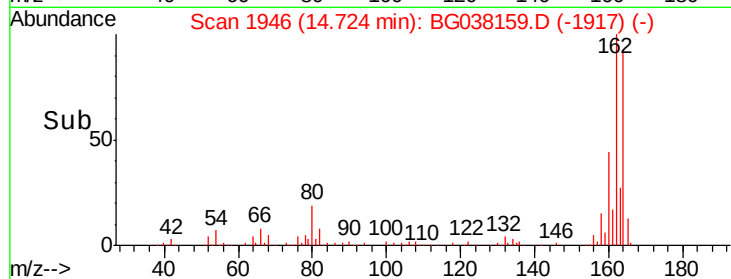
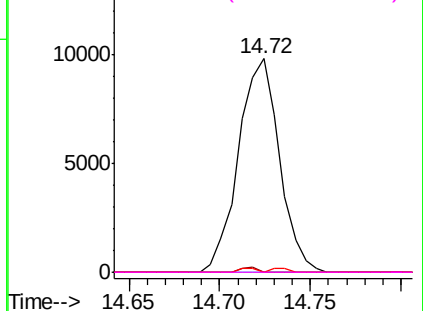


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

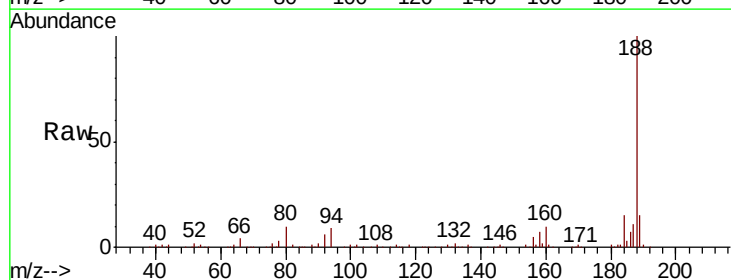
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.47 min Scan# 2413  
 Delta R.T. -0.00 min  
 Lab File: BG038159.D  
 Acq: 27 Nov 2018 7:36

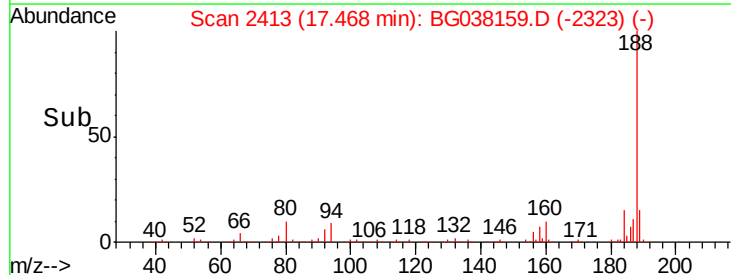
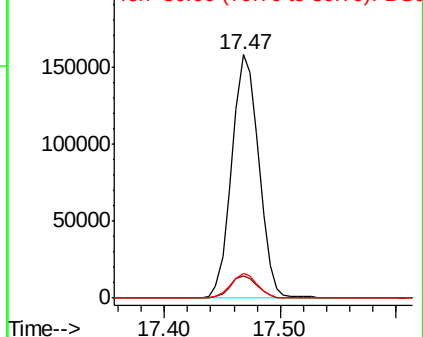
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.0   | 7.2   | 10.8  |
| 80      | 10.4  | 7.7   | 11.5  |

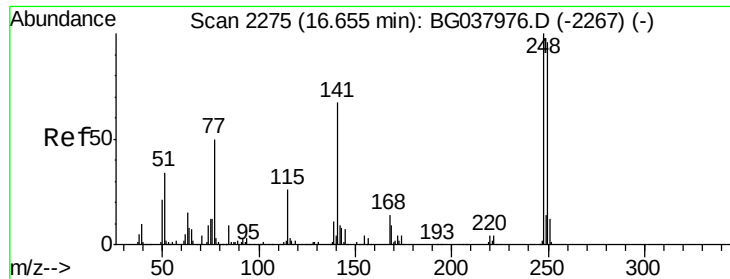


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

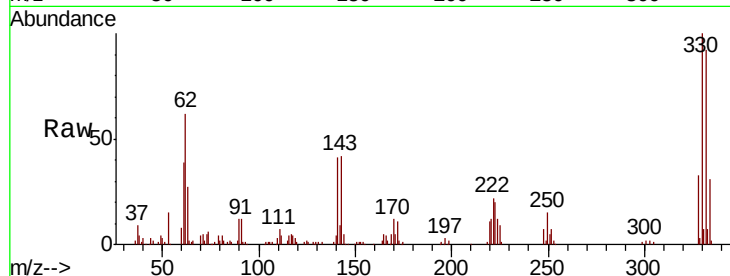




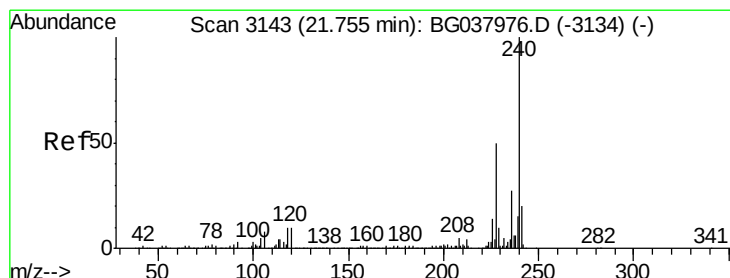
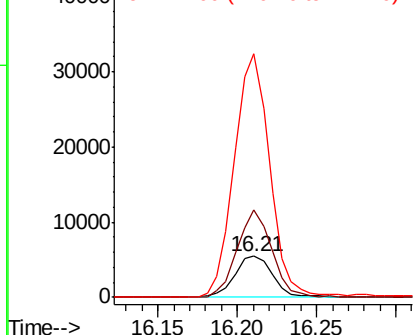
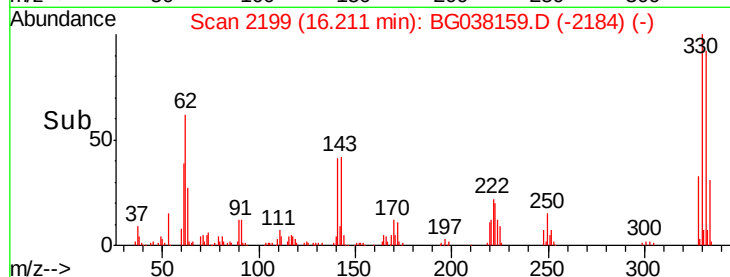
#67  
4-Bromophenyl-phenylether  
Concen: 3.220 ng  
RT: 16.21 min Scan# 2199  
Delta R.T. -0.44 min  
Lab File: BG038159.D  
Acq: 27 Nov 2018 7:36

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:248 Resp: 9067  
Ion Ratio Lower Upper  
248 100  
250 281.9 77.0 115.6#  
141 590.7 55.5 83.3#

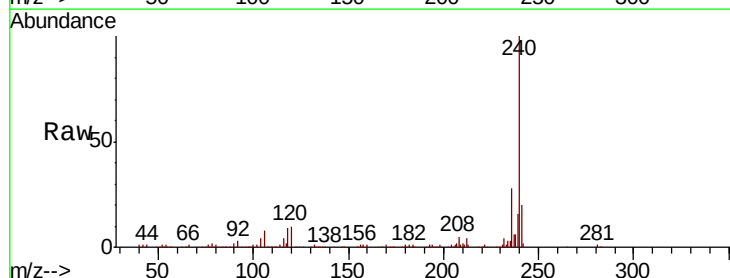


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

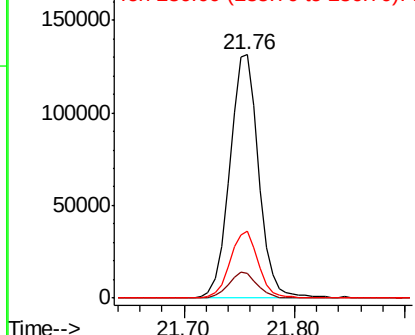
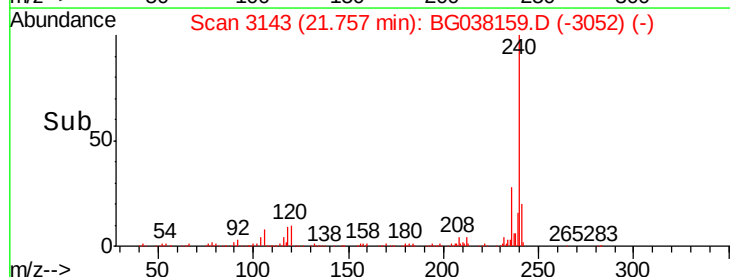


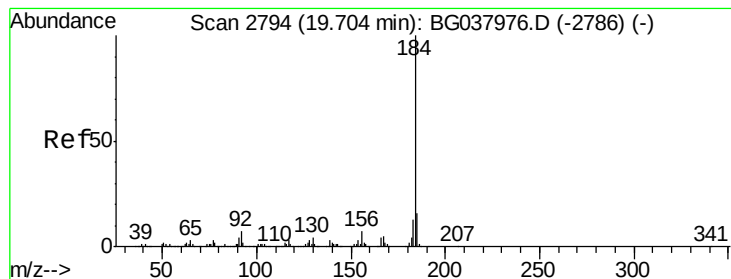
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.76 min Scan# 3143  
Delta R.T. 0.00 min  
Lab File: BG038159.D  
Acq: 27 Nov 2018 7:36

Tgt Ion:240 Resp: 241217  
Ion Ratio Lower Upper  
240 100  
120 10.2 8.1 12.1  
236 27.8 21.4 32.0



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





#77

Benzidine

Concen: 2.248 ng

RT: 20.07 min Scan# 2856

Delta R.T. 0.37 min

Lab File: BG038159.D

Acq: 27 Nov 2018 7:36

Instrument :

BNA\_G

ClientSampleId :

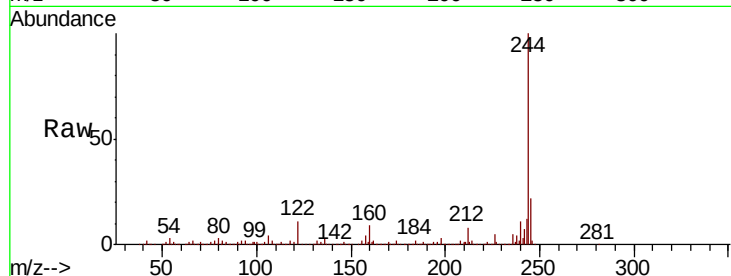
Tot Ion:184 Resp: 19025

Ion Ratio Lower Upper

184 100

185 20.5 12.6 18.8#

183 9.0 10.2 15.2#

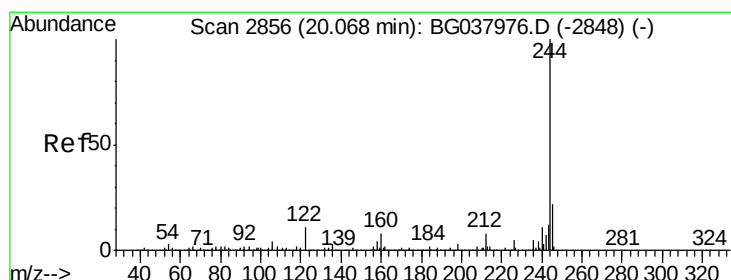
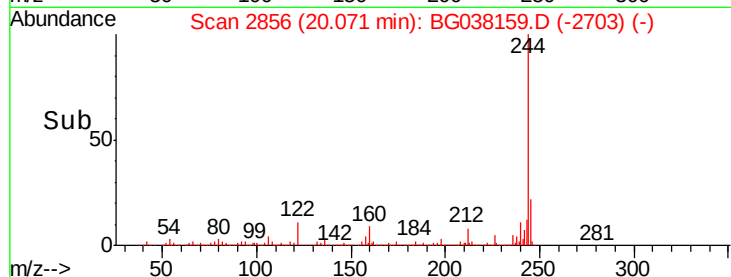
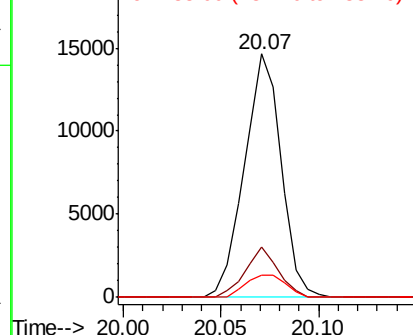


Abundance

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



#79

Terphenyl-d14

Concen: 108.176 ng

RT: 20.07 min Scan# 2856

Delta R.T. 0.00 min

Lab File: BG038159.D

Acq: 27 Nov 2018 7:36

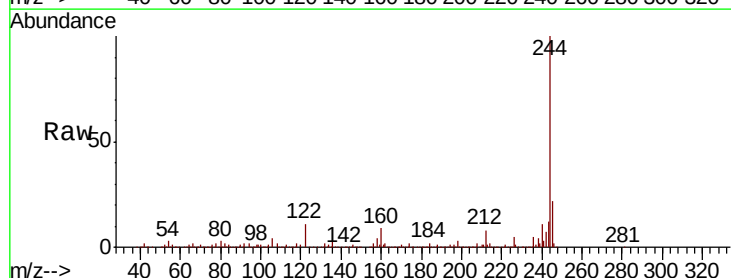
Tgt Ion:244 Resp: 1108954

Ion Ratio Lower Upper

244 100

212 8.4 6.5 9.7

122 10.9 9.0 13.4

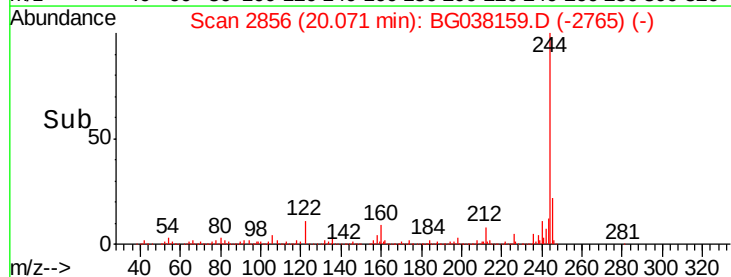
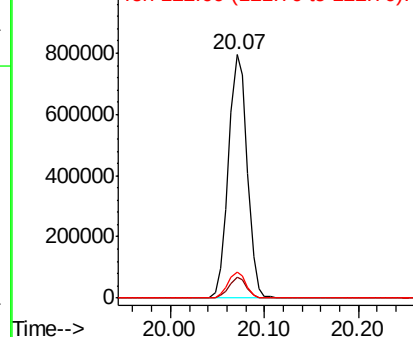


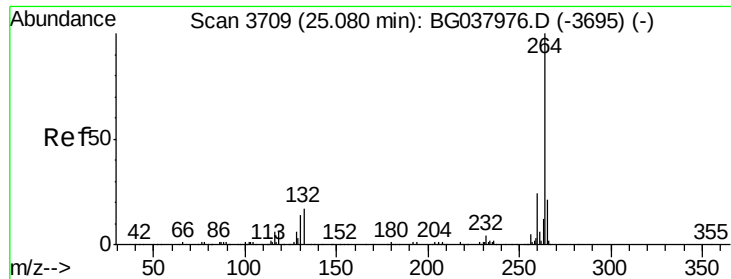
Abundance

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





#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 25.08 min Scan# 3709  
Delta R.T. 0.00 min  
Lab File: BG038159.D  
Acq: 27 Nov 2018 7:36

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.1  | 18.2  | 27.4  |
| 265     | 19.8  | 17.9  | 26.9  |

