

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG102318\  
 Data File : BG037494.D  
 Acq On : 24 Oct 2018 3:46  
 Operator : JU/SJ  
 Sample : J5603-05  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Oct 24 09:09:24 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG101818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 18 14:06:42 2018  
 Response via : Initial Calibration

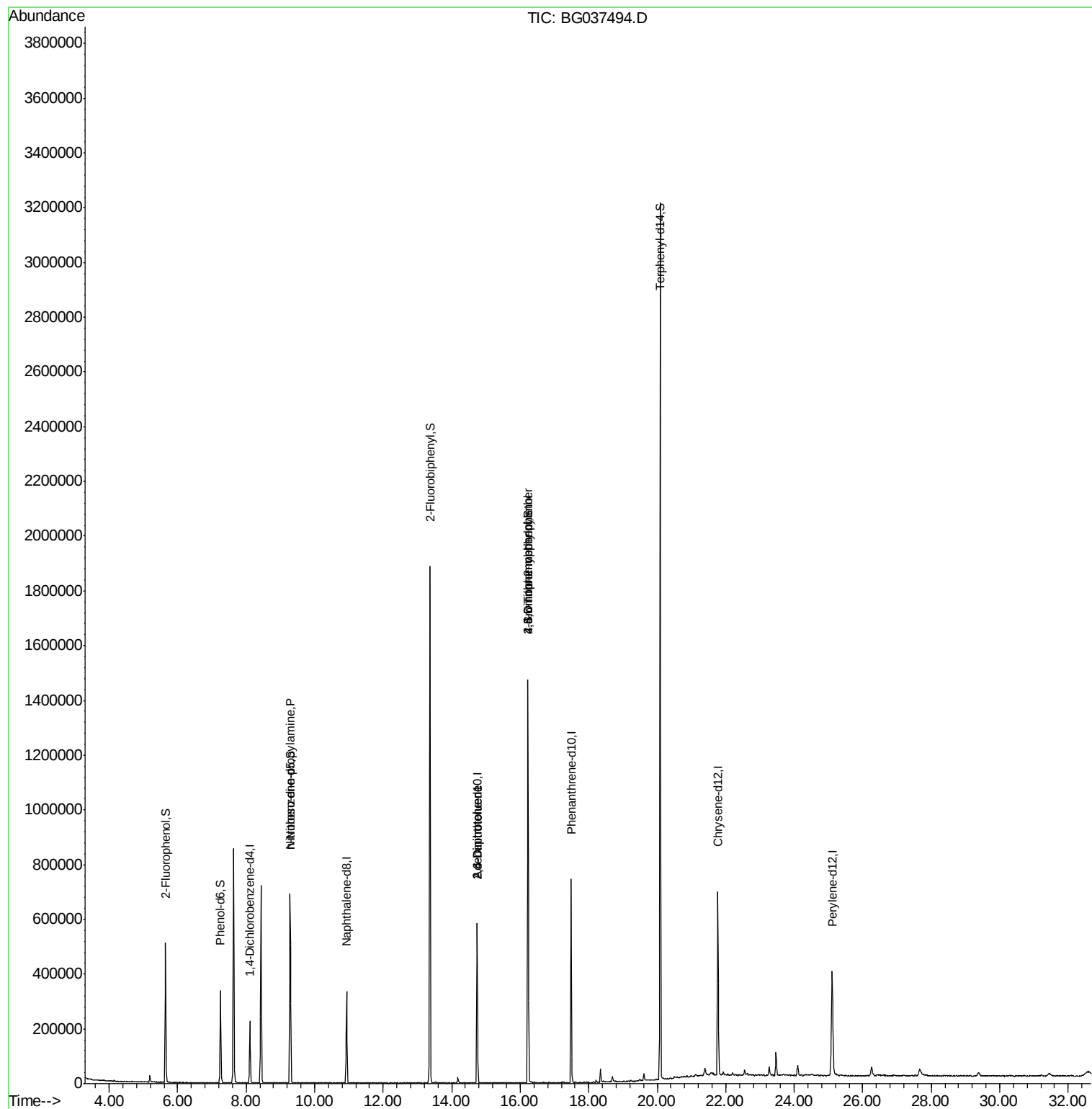
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 8.11  | 152  | 67959    | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8             | 10.93 | 136  | 303157   | 20.00  | ng    | 0.00        |
| 39) Acenaphthene-d10           | 14.74 | 164  | 203847   | 20.00  | ng    | 0.00        |
| 64) Phenanthrene-d10           | 17.48 | 188  | 477822   | 20.00  | ng    | 0.00        |
| 76) Chrysene-d12               | 21.77 | 240  | 420652   | 20.00  | ng    | 0.00        |
| 87) Perylene-d12               | 25.11 | 264  | 419755   | 20.00  | ng    | 0.00        |
| System Monitoring Compounds    |       |      |          |        |       |             |
| 5) 2-Fluorophenol              | 5.65  | 112  | 231194   | 56.88  | ng    | 0.00        |
| 7) Phenol-d6                   | 7.24  | 99   | 216889   | 35.29  | ng    | 0.00        |
| 23) Nitrobenzene-d5            | 9.28  | 82   | 433129   | 80.04  | ng    | 0.00        |
| 42) 2,4,6-Tribromophenol       | 16.23 | 330  | 261182   | 117.47 | ng    | 0.00        |
| 45) 2-Fluorobiphenyl           | 13.37 | 172  | 1028615  | 76.09  | ng    | 0.00        |
| 79) Terphenyl-d14              | 20.09 | 244  | 1530521  | 77.75  | ng    | 0.00        |
| Target Compounds               |       |      |          |        |       |             |
| 19) n-Nitroso-di-n-propylamine | 9.28  | 70   | 54578    | 12.895 | ng    | Qvalue # 70 |
| 51) 2,6-Dinitrotoluene         | 14.74 | 165  | 26339    | 7.550  | ng    | # 25        |
| 57) 2,4-Dinitrotoluene         | 14.74 | 165  | 26339    | 5.752  | ng    | # 24        |
| 65) 4,6-Dinitro-2-methylphenol | 16.23 | 198  | 1036     | 8.847  | ng    | 79          |
| 67) 4-Bromophenyl-phenylether  | 16.23 | 248  | 19601    | 3.735  | ng    | # 1         |

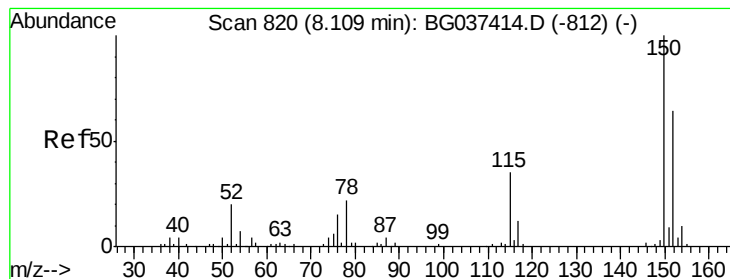
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_G  
ClientSampleId :

Quant Time: Oct 24 09:09:24 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG101818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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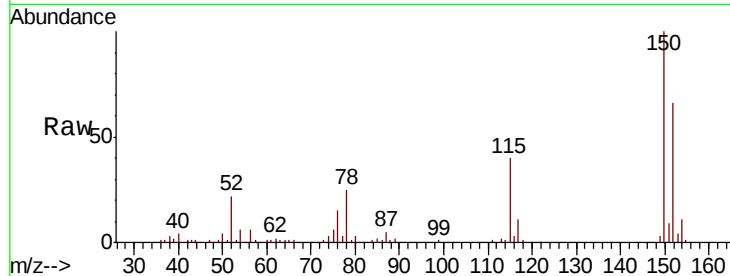


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.11 min Scan# 820  
Delta R.T. -0.00 min  
Lab File: BG037494.D  
Acq: 24 Oct 2018 3:46

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 151.0 | 126.0 | 189.0 |
| 115     | 60.6  | 45.5  | 68.3  |

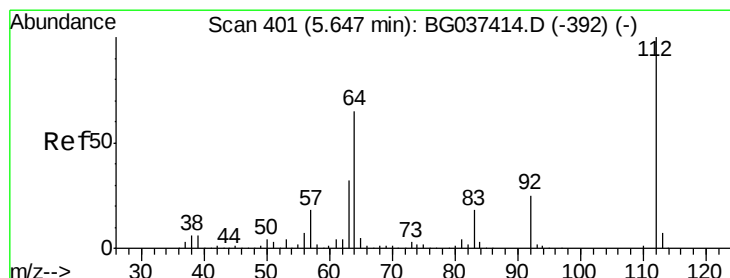
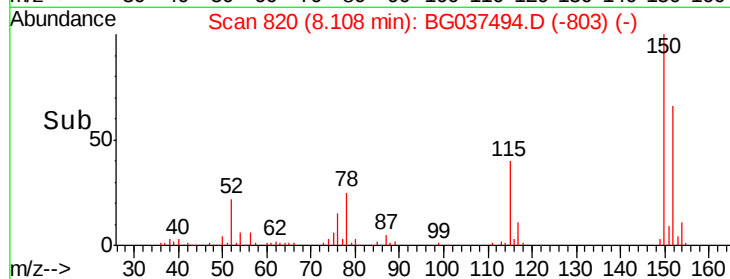
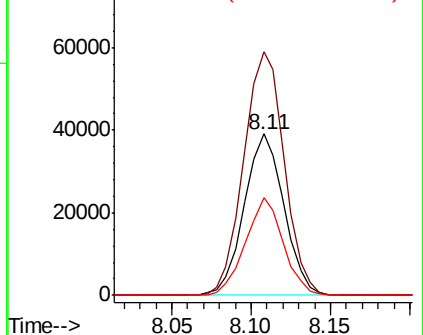


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

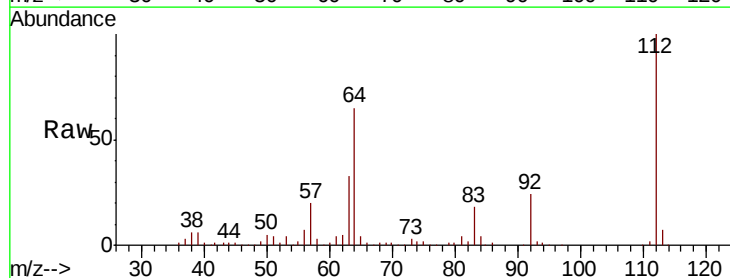
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 56.876 ng  
RT: 5.65 min Scan# 401  
Delta R.T. -0.00 min  
Lab File: BG037494.D  
Acq: 24 Oct 2018 3:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 65.3  | 53.1  | 79.7  |
| 63      | 33.1  | 27.3  | 40.9  |

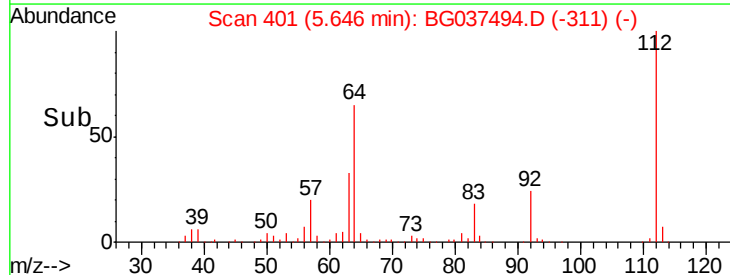
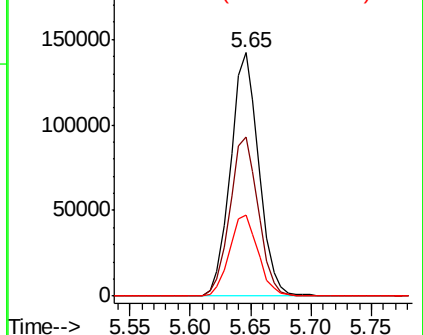


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 35.286 ng

RT: 7.24 min Scan# 673

Delta R.T. -0.01 min

Lab File: BG037494.D

Acq: 24 Oct 2018 3:46

Instrument :

BNA\_G

ClientSampleId :

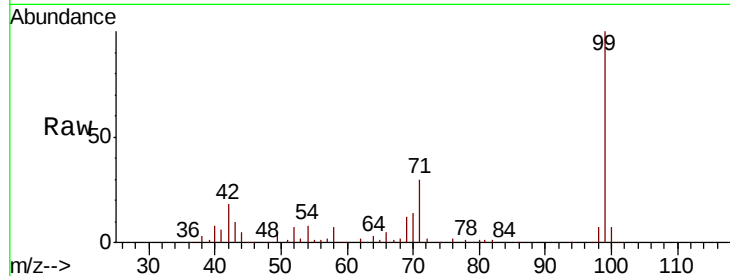
Tot Ion: 99 Resp: 216889

Ion Ratio Lower Upper

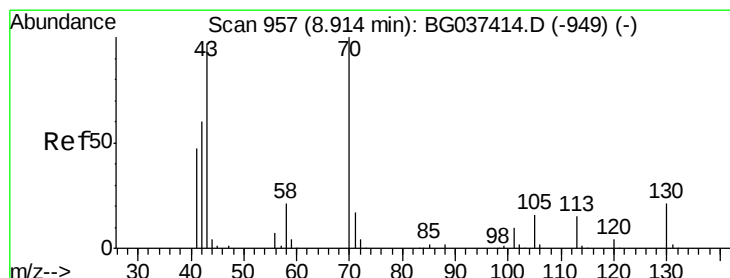
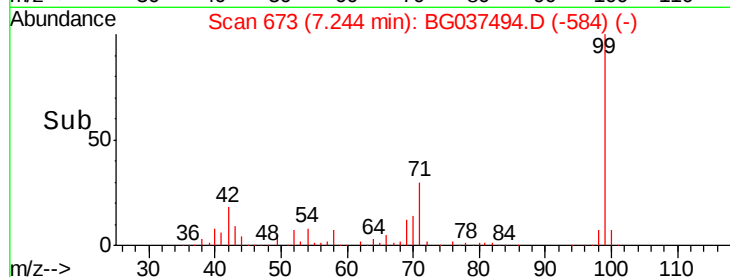
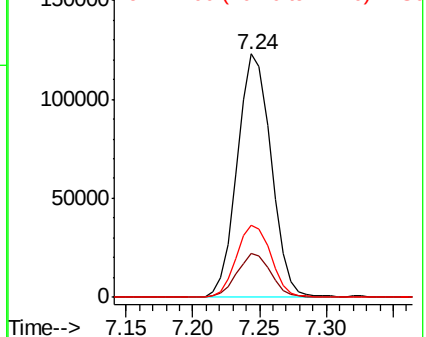
99 100

42 17.8 15.0 22.4

71 29.7 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



#19

n-Nitroso-di-n-propylamine

Concen: 12.895 ng

RT: 9.28 min Scan# 1020

Delta R.T. 0.37 min

Lab File: BG037494.D

Acq: 24 Oct 2018 3:46

Tgt Ion: 70 Resp: 54578

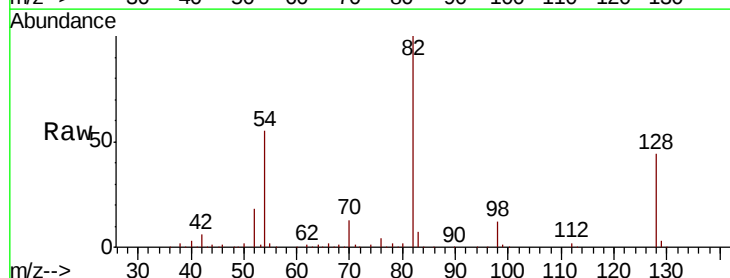
Ion Ratio Lower Upper

70 100

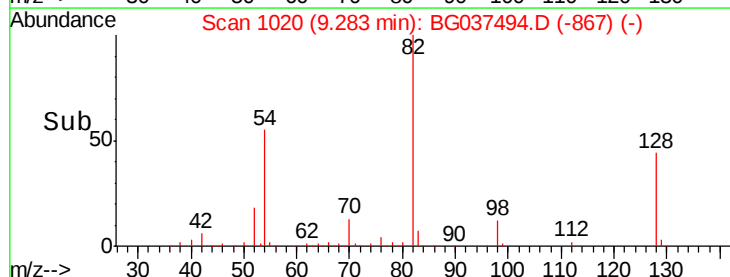
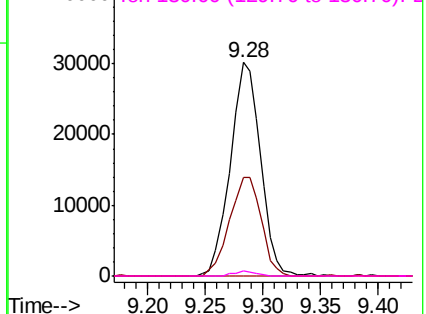
42 46.1 53.9 80.9#

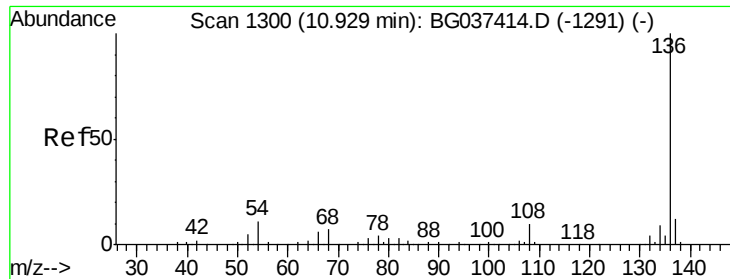
101 0.0 8.2 12.2#

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

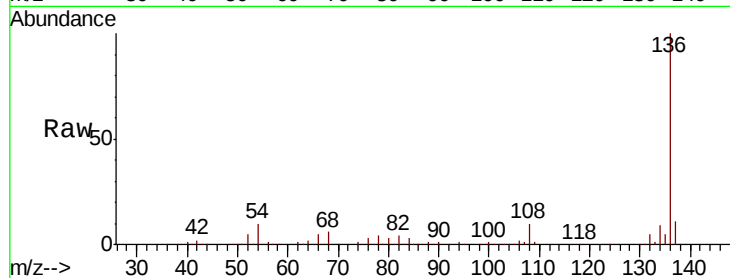




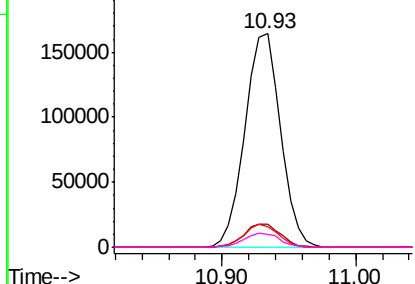
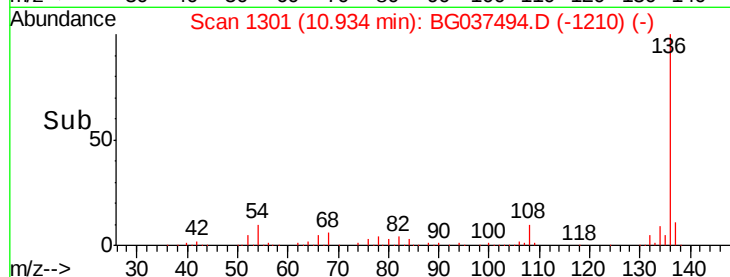
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.93 min Scan# 1301  
Delta R.T. 0.00 min  
Lab File: BG037494.D  
Acq: 24 Oct 2018 3:46

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 303157      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.0  | 9.6 14.4    |
| 54          | 9.8   | 7.9 11.9    |
| 68          | 5.9   | 4.8 7.2     |

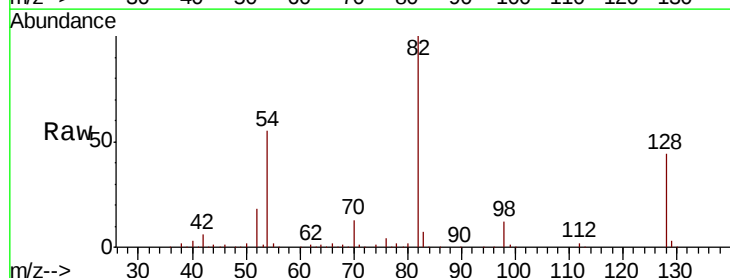


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

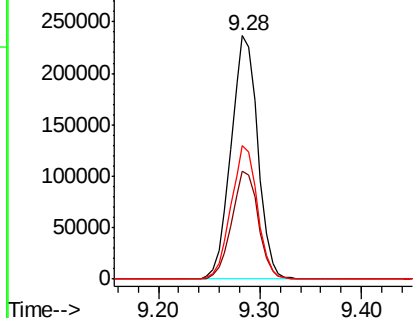
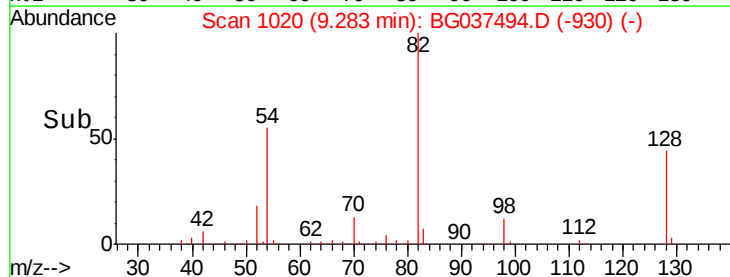


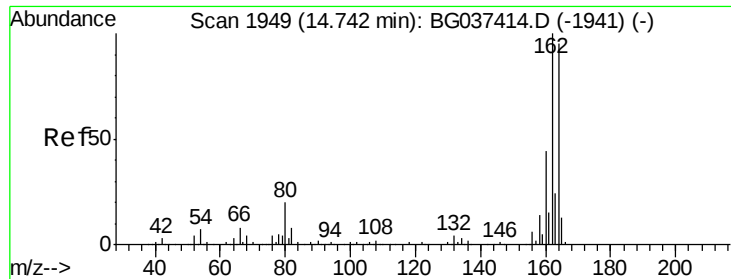
#23  
Nitrobenzene-d5  
Concen: 80.036 ng  
RT: 9.28 min Scan# 1020  
Delta R.T. -0.00 min  
Lab File: BG037494.D  
Acq: 24 Oct 2018 3:46

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 433129      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 44.2  | 34.6 51.8   |
| 54          | 55.0  | 45.3 67.9   |



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





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.74 min Scan# 1949

Delta R.T. -0.00 min

Lab File: BG037494.D

Acq: 24 Oct 2018 3:46

Instrument :

BNA\_G

ClientSampleId :

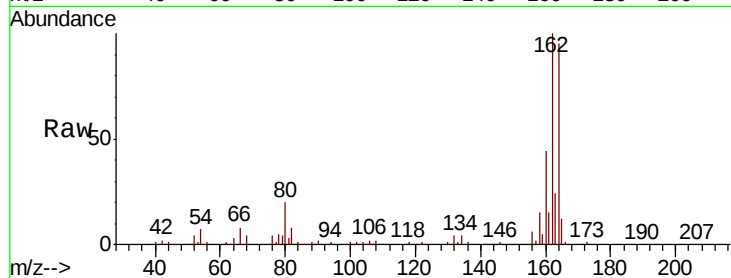
Tot Ion:164 Resp: 203847

Ion Ratio Lower Upper

164 100

162 105.0 81.3 121.9

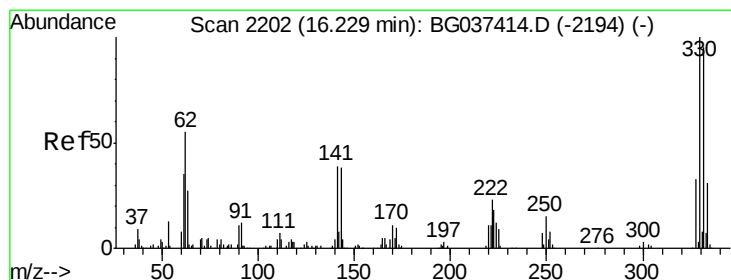
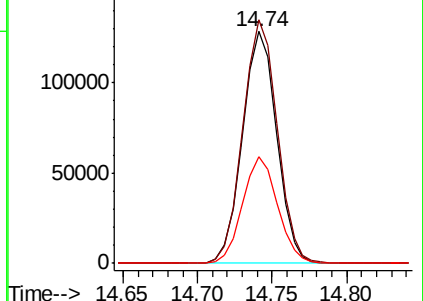
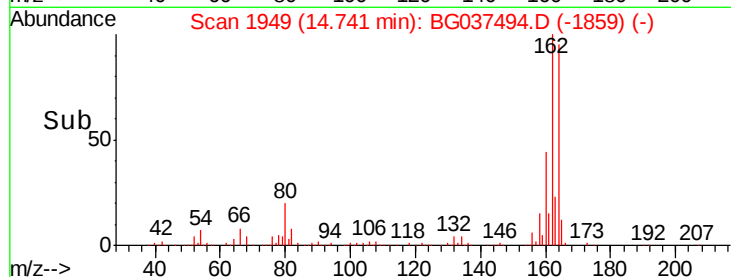
160 46.1 36.3 54.5



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: 117.473 ng

RT: 16.23 min Scan# 2202

Delta R.T. -0.00 min

Lab File: BG037494.D

Acq: 24 Oct 2018 3:46

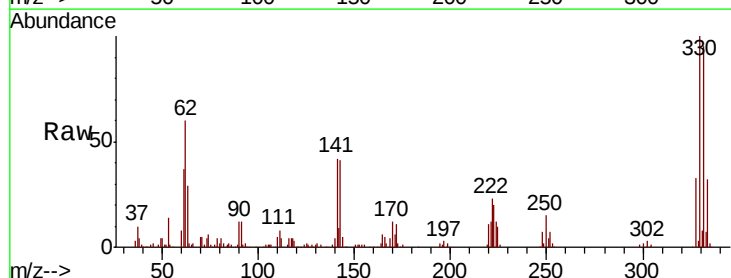
Tgt Ion:330 Resp: 261182

Ion Ratio Lower Upper

330 100

332 96.3 78.4 117.6

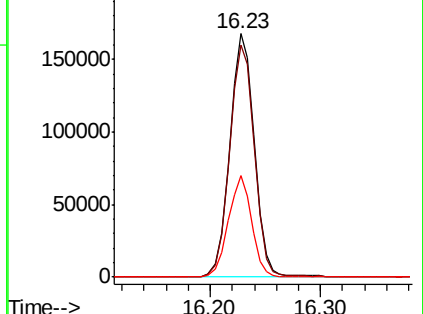
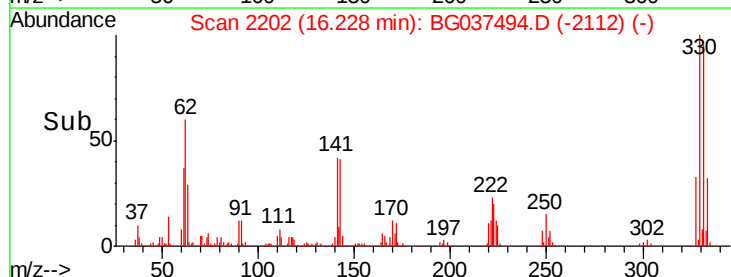
141 40.0 32.2 48.2



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



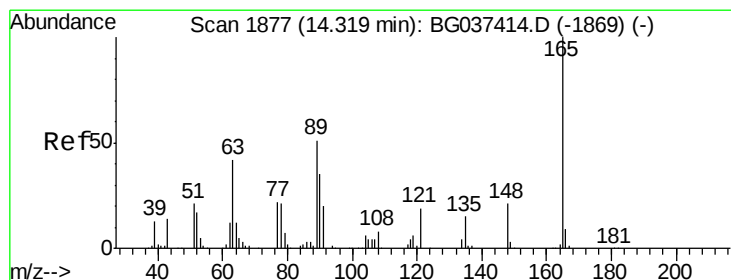
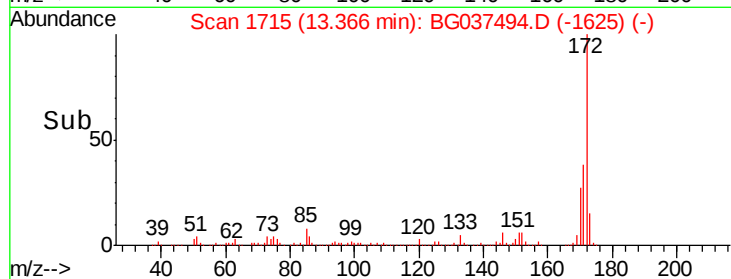
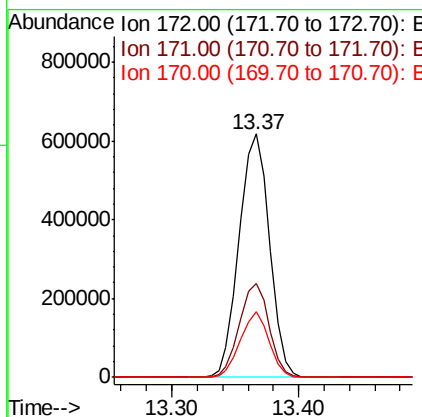
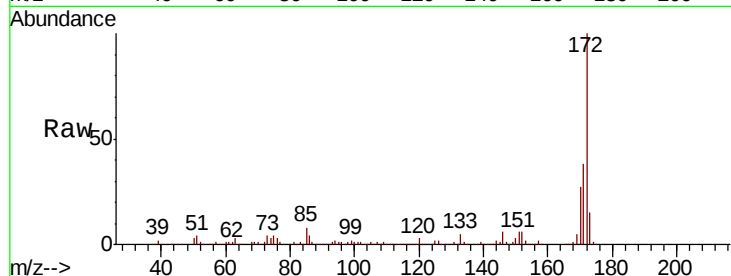


#45  
 2-Fluorobiphenyl  
 Concen: 76.091 ng  
 RT: 13.37 min Scan# 1715  
 Delta R.T. -0.00 min  
 Lab File: BG037494.D  
 Acq: 24 Oct 2018 3:46

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:172 Resp: 1028615  

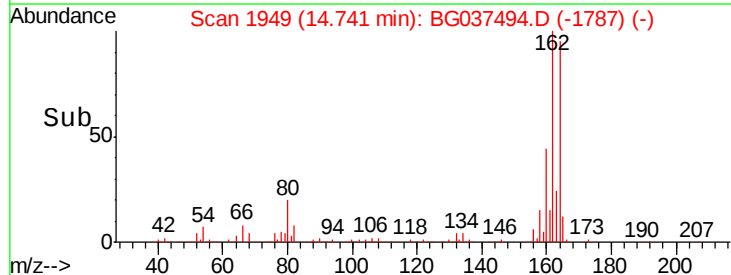
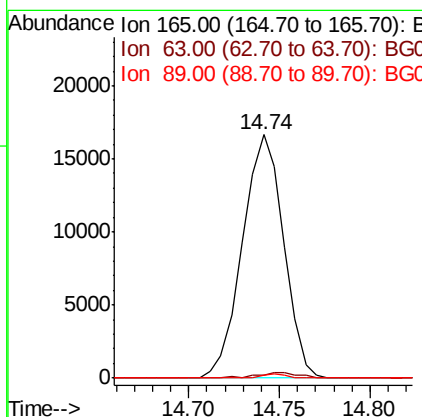
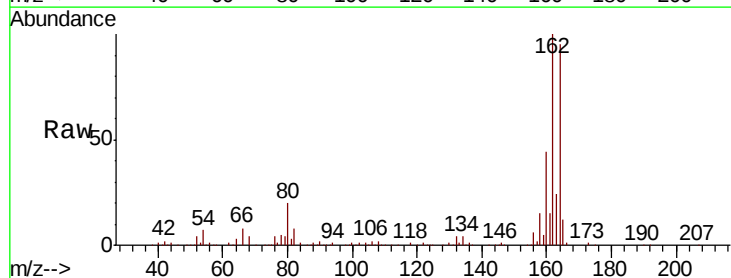
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 38.5  | 31.0  | 46.4  |
| 170 | 26.7  | 20.2  | 30.2  |

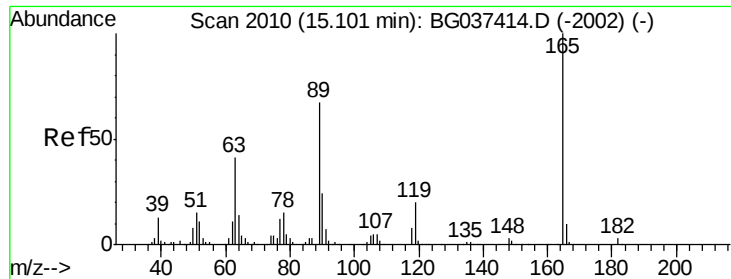


#51  
 2,6-Dinitrotoluene  
 Concen: 7.550 ng  
 RT: 14.74 min Scan# 1949  
 Delta R.T. 0.42 min  
 Lab File: BG037494.D  
 Acq: 24 Oct 2018 3:46

Tgt Ion:165 Resp: 26339  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 165 | 100   |       |       |
| 63  | 1.0   | 43.4  | 65.2# |
| 89  | 1.0   | 45.8  | 68.6# |

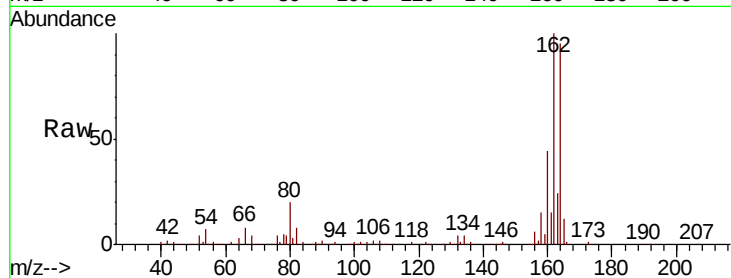




#57  
 2,4-Dinitrotoluene  
 Concen: 5.752 ng  
 RT: 14.74 min Scan# 1949  
 Delta R.T. -0.36 min  
 Lab File: BG037494.D  
 Acq: 24 Oct 2018 3:46

Instrument :  
 BNA\_G  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.0   | 33.4  | 50.0# |
| 89      | 1.0   | 57.2  | 85.8# |
| 182     | 0.0   | 2.6   | 4.0#  |



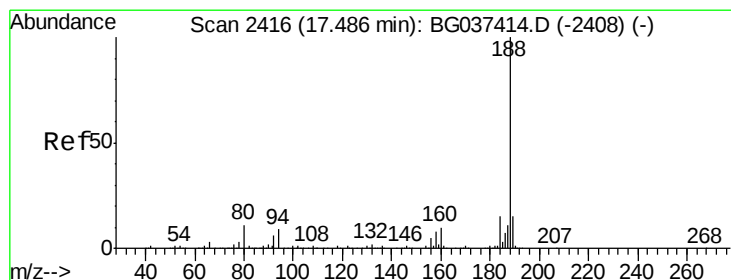
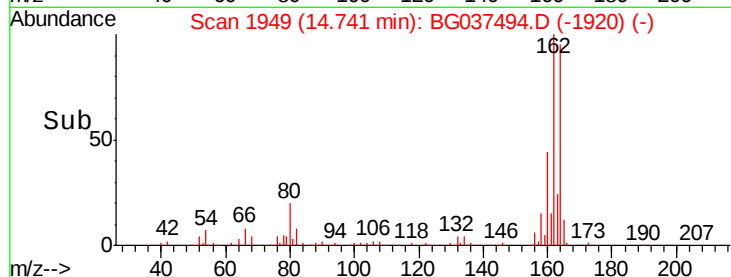
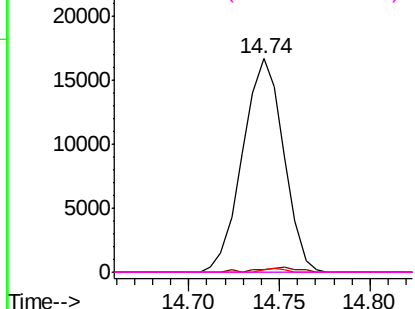
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

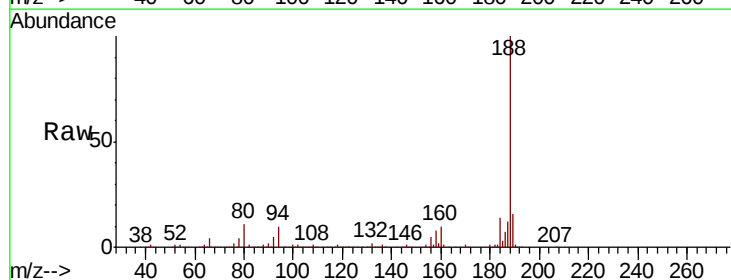
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.48 min Scan# 2416  
 Delta R.T. -0.00 min  
 Lab File: BG037494.D  
 Acq: 24 Oct 2018 3:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.6   | 7.2   | 10.8  |
| 80      | 10.9  | 7.7   | 11.5  |

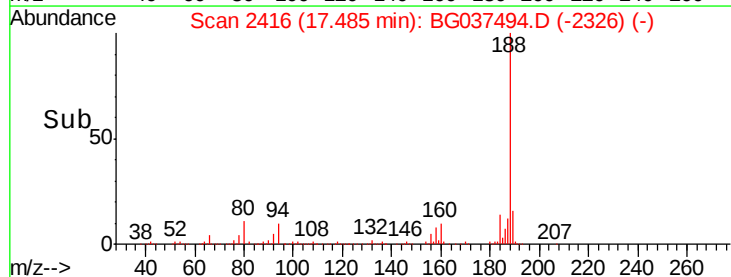
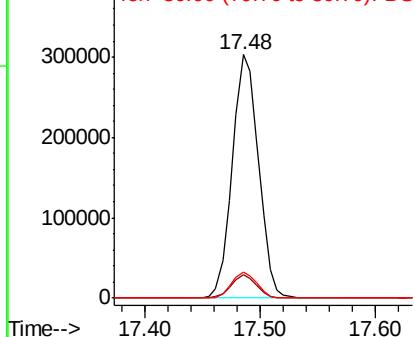


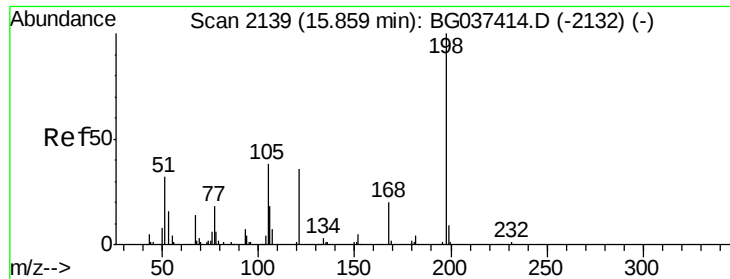
Abundance

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





#65

4,6-Dinitro-2-methylphenol

Concen: 8.847 ng

RT: 16.23 min Scan# 2202

Delta R.T. 0.37 min

Lab File: BG037494.D

Acq: 24 Oct 2018 3:46

Instrument :

BNA\_G

ClientSampleId :

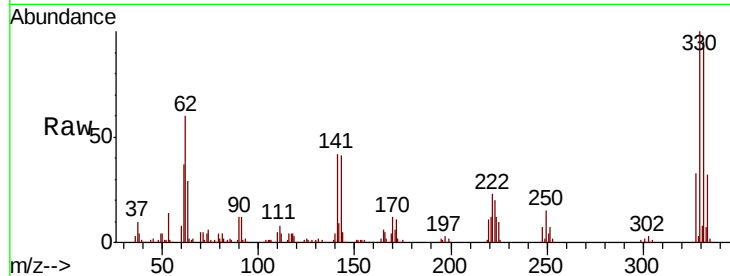
Tot Ion:198 Resp: 1036

Ion Ratio Lower Upper

198 100

51 27.3 22.7 62.7

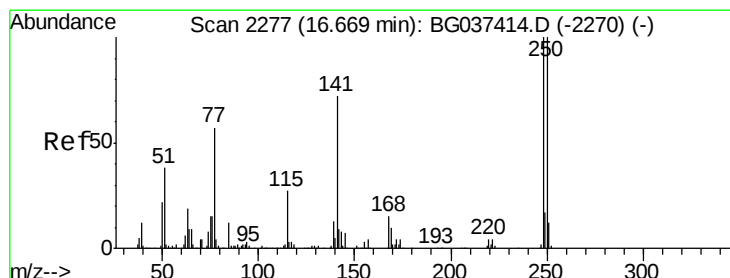
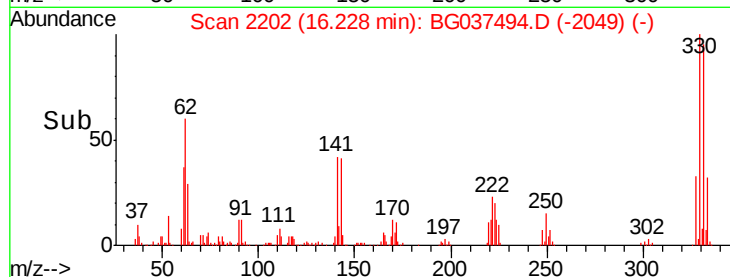
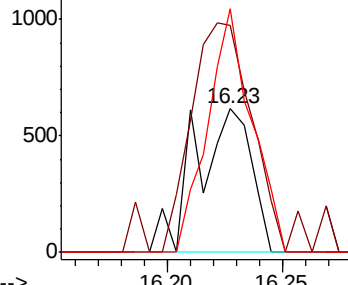
105 29.3 19.7 59.7



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BG

Ion 105.00 (104.70 to 105.70): E



#67

4-Bromophenyl-phenylether

Concen: 3.735 ng

RT: 16.23 min Scan# 2202

Delta R.T. -0.44 min

Lab File: BG037494.D

Acq: 24 Oct 2018 3:46

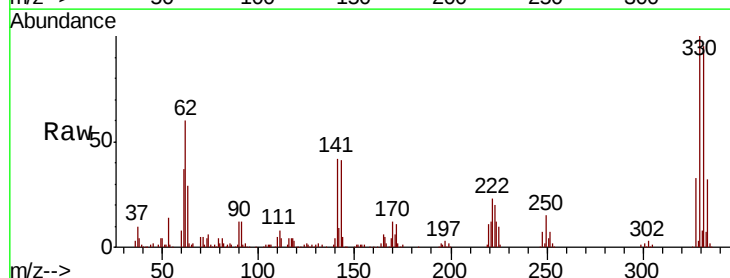
Tgt Ion:248 Resp: 19601

Ion Ratio Lower Upper

248 100

250 197.6 77.0 115.6#

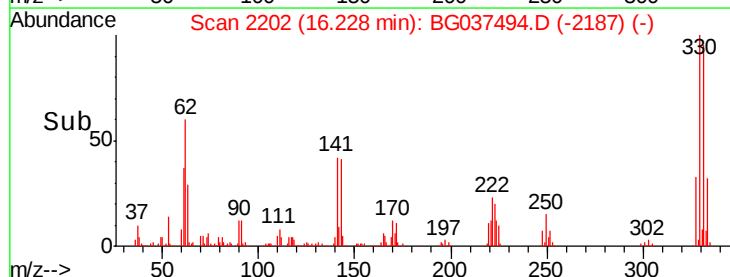
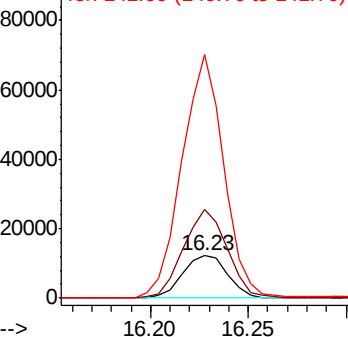
141 430.6 55.5 83.3#

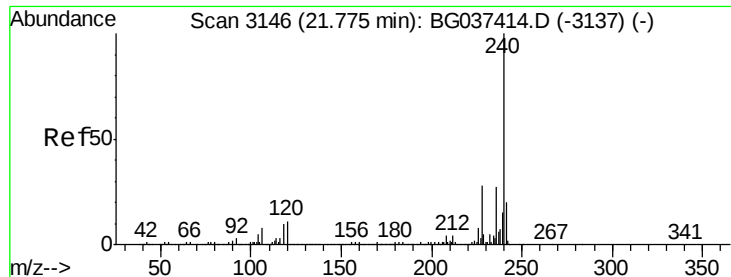


Abundance Ion 248.00 (247.70 to 248.70): E

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: 21.77 min Scan# 3146

Delta R.T. -0.00 min

Lab File: BG037494.D

Acq: 24 Oct 2018 3:46

Instrument :

BNA\_G

ClientSampleId :

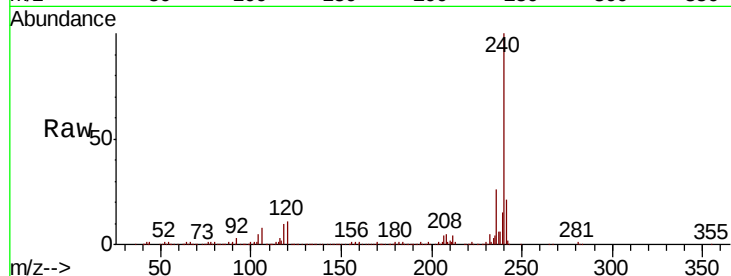
Tot Ion:240 Resp: 420652

Ion Ratio Lower Upper

240 100

120 10.7 8.1 12.1

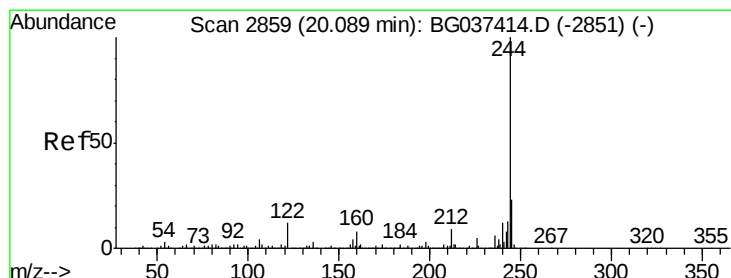
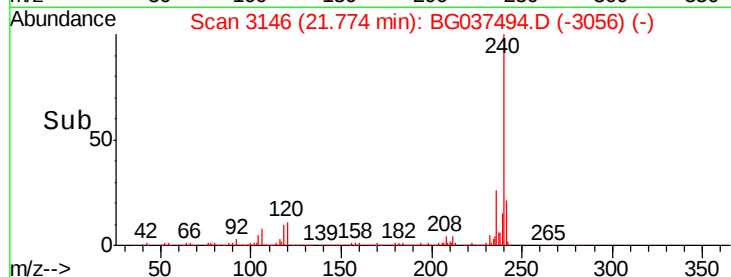
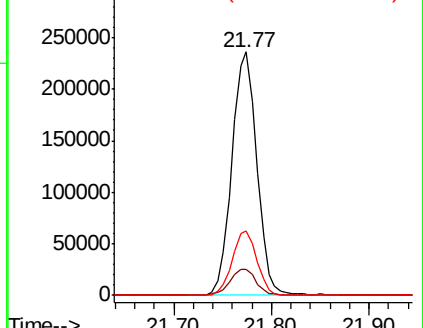
236 26.2 21.4 32.0



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



#79

Terphenyl-d14

Concen: 77.745 ng

RT: 20.09 min Scan# 2859

Delta R.T. -0.00 min

Lab File: BG037494.D

Acq: 24 Oct 2018 3:46

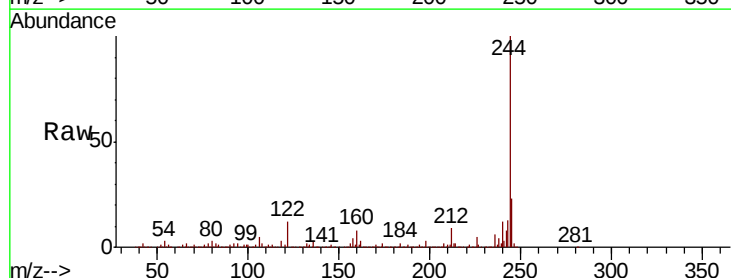
Tgt Ion:244 Resp: 1530521

Ion Ratio Lower Upper

244 100

212 8.7 6.5 9.7

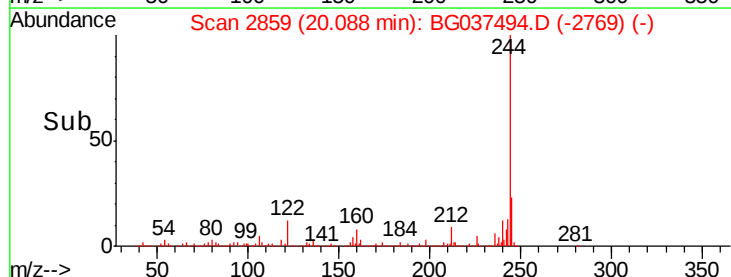
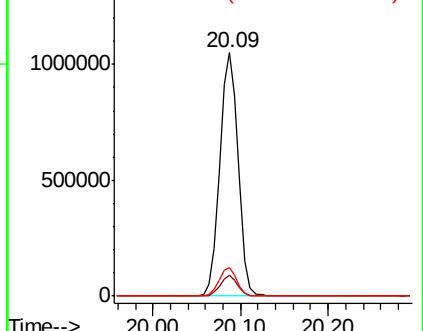
122 12.0 9.0 13.4

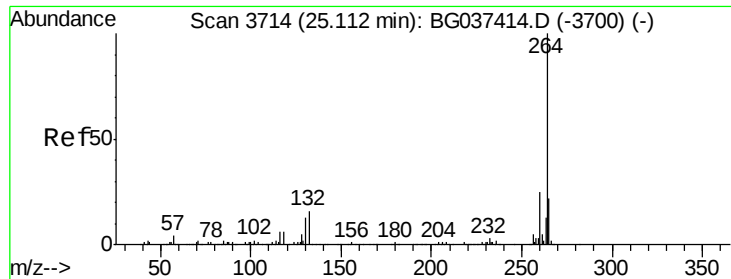


Abundance Ion 244.00 (243.70 to 244.70): E

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: 25.11 min Scan# 3714  
Delta R.T. -0.00 min  
Lab File: BG037494.D  
Acq: 24 Oct 2018 3:46

Instrument :  
BNA\_G  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 419755 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 24.0  | 18.2  | 27.4   |
| 265      | 21.9  | 17.9  | 26.9   |

