

Data Path : Z:\HPCHEM1\BNA G\DATA\BG021518\  
 Data File : BG032718.D  
 Acq On : 15 Feb 2018 17:54  
 Operator : SJ/JU  
 Sample : J1393-04  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Feb 16 02:25:24 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG021218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 12 18:08:01 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.63  | 152  | 25430    | 20.00 | ng    | -0.05    |
| 21) Naphthalene-d8        | 11.50 | 136  | 101526   | 20.00 | ng    | -0.05    |
| 38) Acenaphthene-d10      | 15.27 | 164  | 75624    | 20.00 | ng    | -0.04    |
| 63) Phenanthrene-d10      | 18.01 | 188  | 163821   | 20.00 | ng    | -0.04    |
| 75) Chrysene-d12          | 22.33 | 240  | 298206   | 20.00 | ng    | -0.05    |
| 86) Perylene-d12          | 25.94 | 264  | 309058   | 20.00 | ng    | -0.08    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 6.07  | 112  | 156304   | 123.32 | ng    | -0.04    |
| 7) Phenol-d6                | 7.75  | 99   | 163420   | 94.29  | ng    | -0.05    |
| 23) Nitrobenzene-d5         | 9.82  | 82   | 131792   | 82.50  | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol    | 16.75 | 330  | 216562   | 185.98 | ng    | -0.04    |
| 44) 2-Fluorobiphenyl        | 13.89 | 172  | 477015   | 78.88  | ng    | -0.04    |
| 78) Terphenyl-d14           | 20.56 | 244  | 1365148  | 104.34 | ng    | -0.03    |

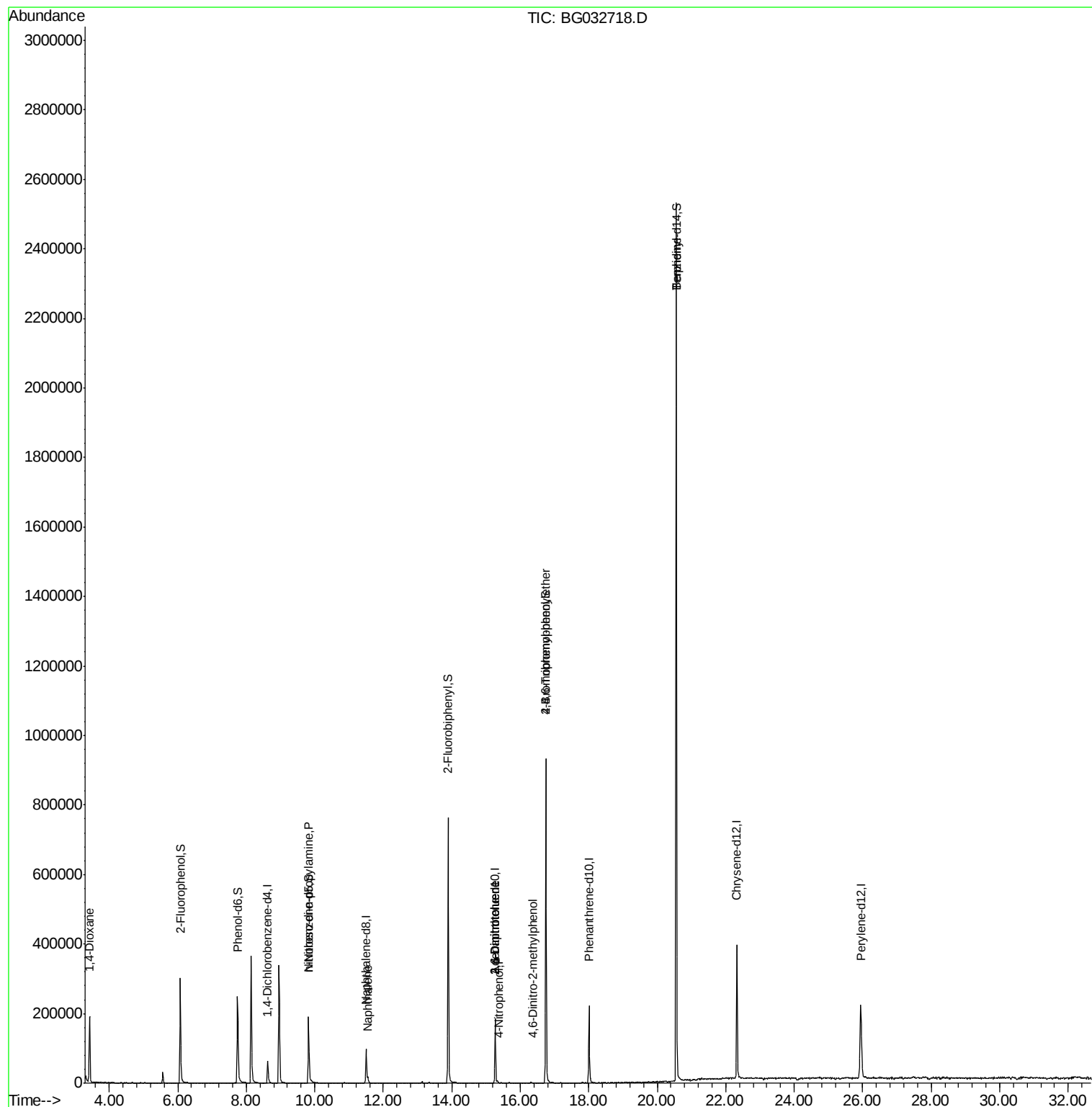
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.42  | 88   | 2370     | 4.47  | ng    | # 1    |
| 19) n-Nitroso-di-n-propylamine | 9.83  | 70   | 19676    | 16.89 | ng    | # 76   |
| 31) Naphthalene                | 11.55 | 128  | 16114    | 3.27  | ng    | # 95   |
| 50) 2,6-Dinitrotoluene         | 15.27 | 165  | 9471     | 7.04  | ng    | # 18   |
| 55) 4-Nitrophenol              | 15.39 | 139  | 58       | 5.55  | ng    | # 1    |
| 56) 2,4-Dinitrotoluene         | 15.27 | 165  | 9471     | 5.11  | ng    | # 16   |
| 64) 4,6-Dinitro-2-methylphenol | 16.37 | 198  | 54       | 5.06  | ng    | # 29   |
| 66) 4-Bromophenyl-phenylether  | 16.75 | 248  | 18325    | 7.82  | ng    | # 1    |
| 76) Benzidine                  | 20.56 | 184  | 19795    | 2.82  | ng    | # 95   |

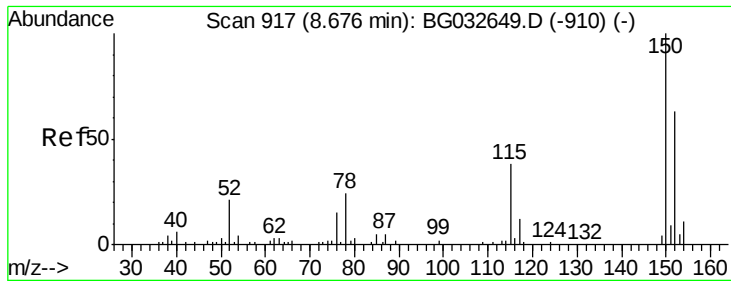
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_G  
ClientSampleId :

Quant Time: Feb 16 02:25:24 2018  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG021218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Feb 12 18:08:01 2018  
Response via : Initial Calibration



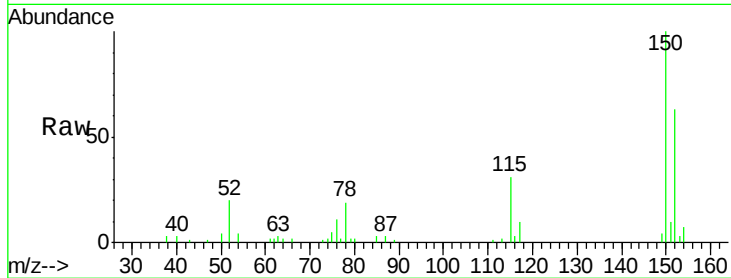


#1

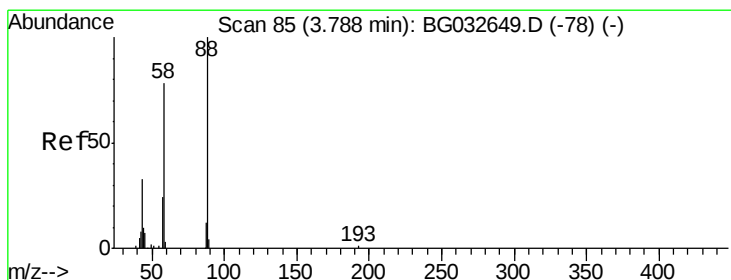
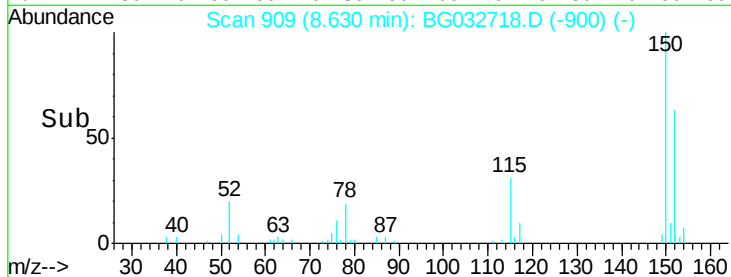
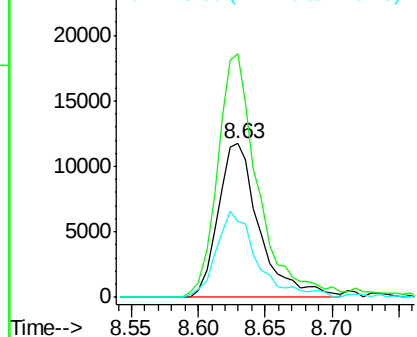
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.63 min Scan# 909  
Delta R.T. -0.05 min  
Lab File: BG032718.D  
Acq: 15 Feb 2018 17:54

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:152 Resp: 25430  
Ion Ratio Lower Upper  
152 100  
150 158.6 126.6 189.8  
115 49.8 53.0 79.4#



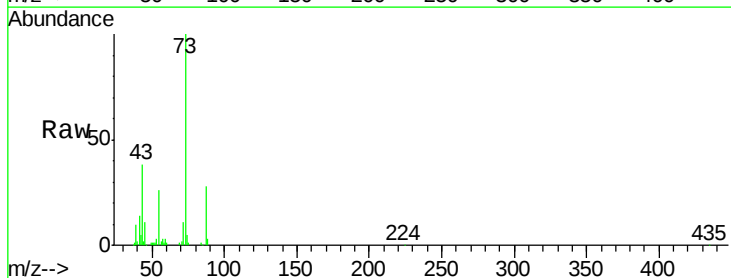
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



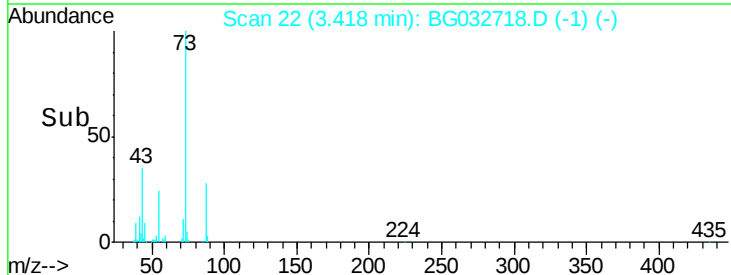
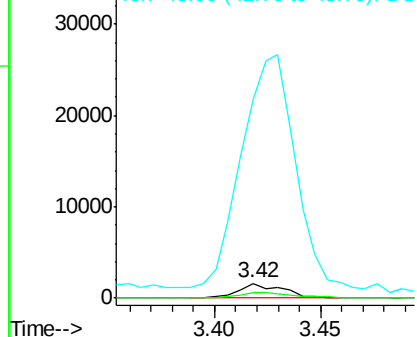
#2

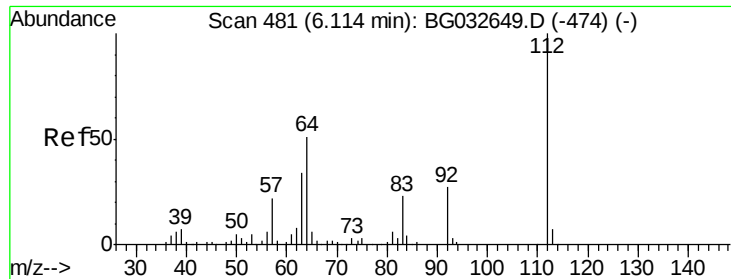
1,4-Dioxane  
Concen: 4.47 ng  
RT: 3.42 min Scan# 22  
Delta R.T. -0.37 min  
Lab File: BG032718.D  
Acq: 15 Feb 2018 17:54

Tgt Ion: 88 Resp: 2370  
Ion Ratio Lower Upper  
88 100  
58 44.6 79.6 119.4#  
43 2014.1 27.4 41.0#



Abundance Ion 88.00 (87.70 to 88.70): BGC  
Ion 58.00 (57.70 to 58.70): BGC  
Ion 43.00 (42.70 to 43.70): BGC





#5

2-Fluorophenol

Concen: 123.32 ng

RT: 6.07 min Scan# 474

Delta R.T. -0.04 min

Lab File: BG032718.D

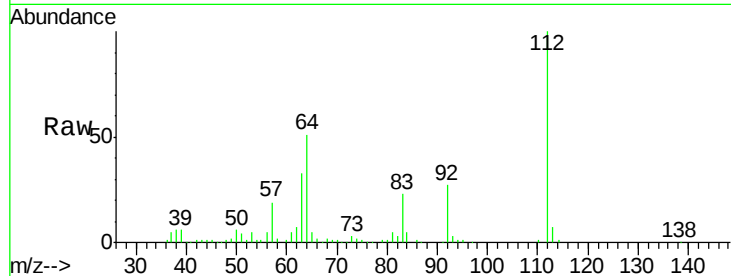
Acq: 15 Feb 2018 17:54

Instrument :

BNA\_G

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 112   | Resp: | 156304 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 64       | 51.1  | 56.3  | 84.5#  |
| 63       | 33.0  | 30.1  | 45.1   |

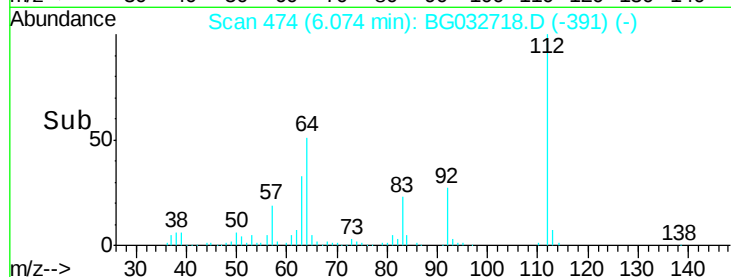


Abundance Ion 112.00 (111.70 to 112.70): BGC

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC

Time-->



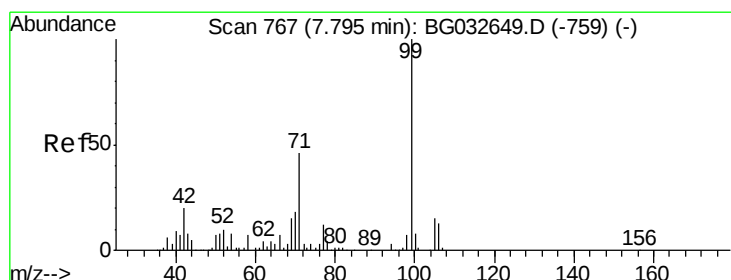
Abundance

Ion 112.00 (111.70 to 112.70): BGC

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC

Time-->



#7

Phenol-d6

Concen: 94.29 ng

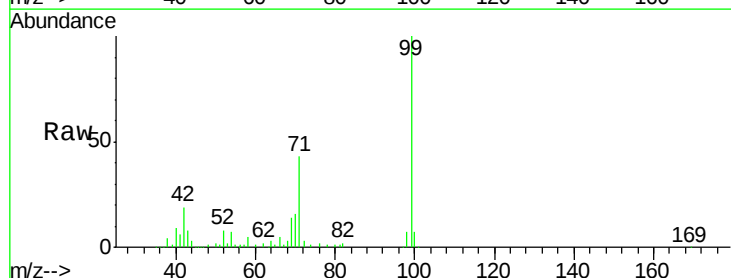
RT: 7.75 min Scan# 759

Delta R.T. -0.05 min

Lab File: BG032718.D

Acq: 15 Feb 2018 17:54

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 99    | Resp: | 163420 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 19.0  | 14.1  | 21.1   |
| 71       | 43.1  | 26.1  | 39.1#  |

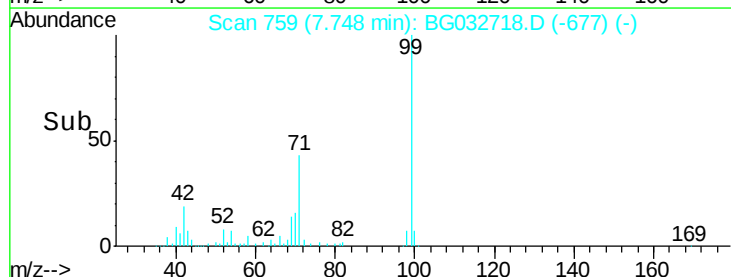


Abundance Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC

Time-->



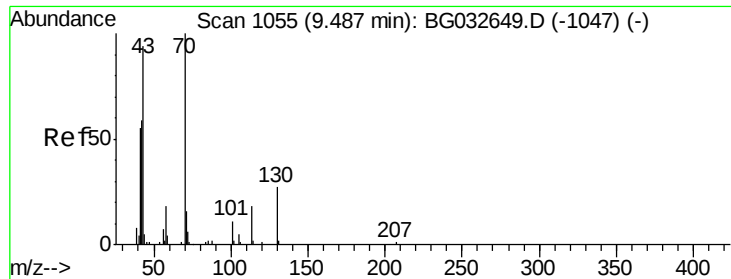
Abundance

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

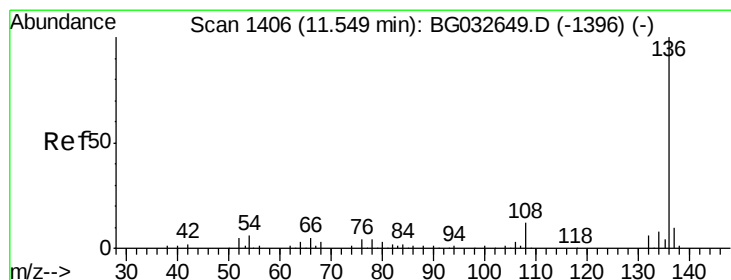
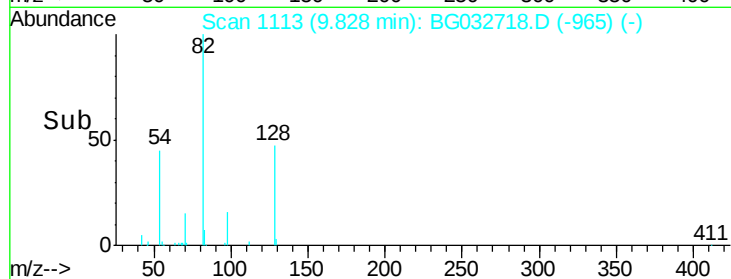
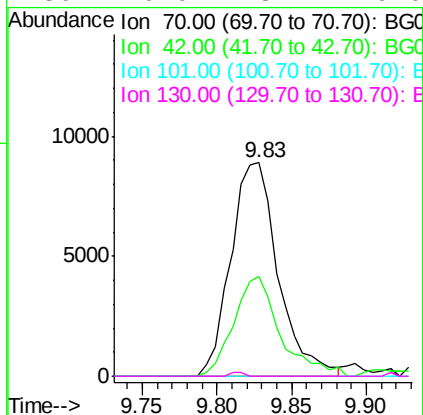
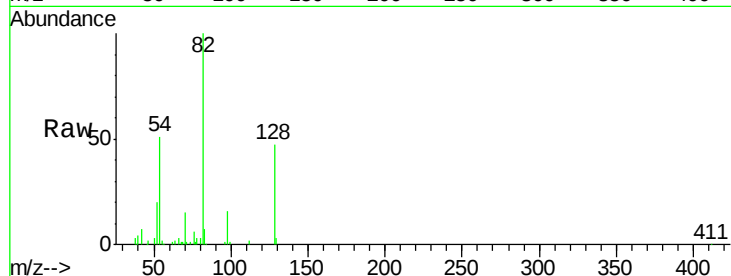
Time-->



#19  
n-Nitroso-di-n-propylamine  
Concen: 16.89 ng  
RT: 9.83 min Scan# 1113  
Delta R.T. 0.34 min  
Lab File: BG032718.D  
Acq: 15 Feb 2018 17:54

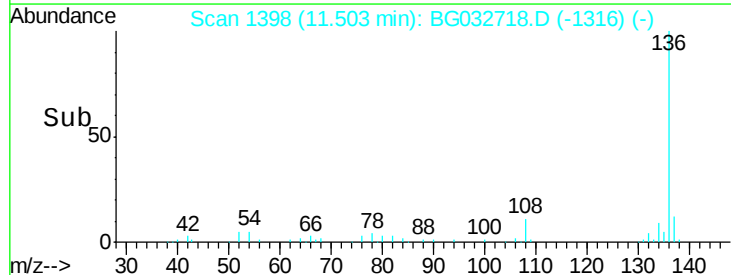
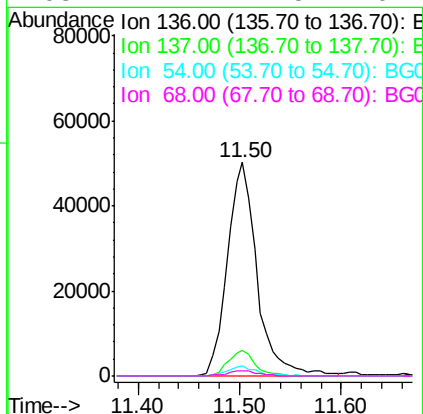
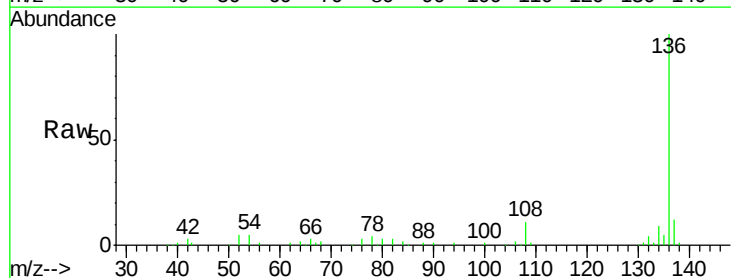
Instrument :  
BNA\_G  
ClientSampleId :

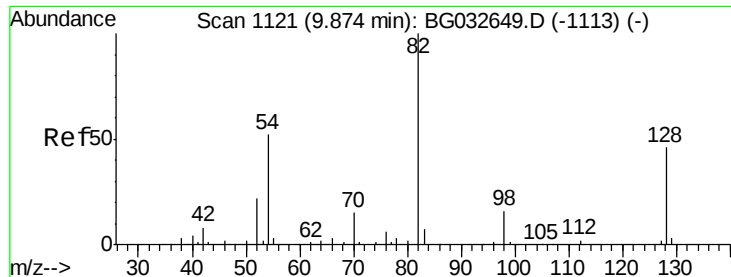
Tot Ion: 70 Resp: 19676  
Ion Ratio Lower Upper  
70 100  
42 46.9 49.1 73.7#  
101 0.0 8.5 12.7#  
130 0.0 13.4 20.0#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 11.50 min Scan# 1398  
Delta R.T. -0.05 min  
Lab File: BG032718.D  
Acq: 15 Feb 2018 17:54

Tgt Ion: 136 Resp: 101526  
Ion Ratio Lower Upper  
136 100  
137 12.2 9.2 13.8  
54 4.8 10.3 15.5#  
68 2.4 4.5 6.7#

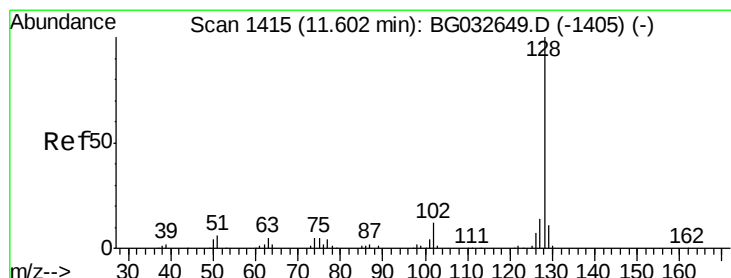
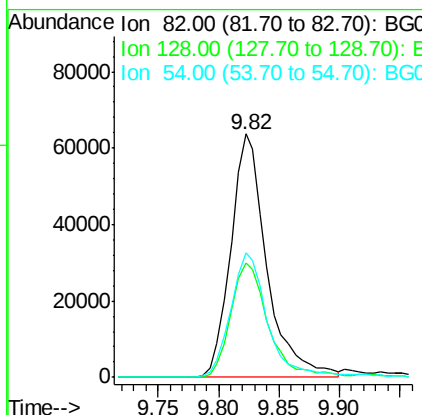
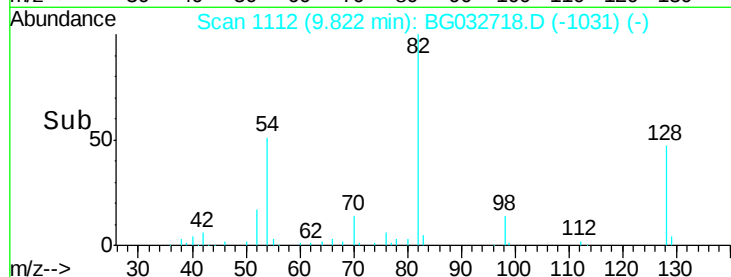
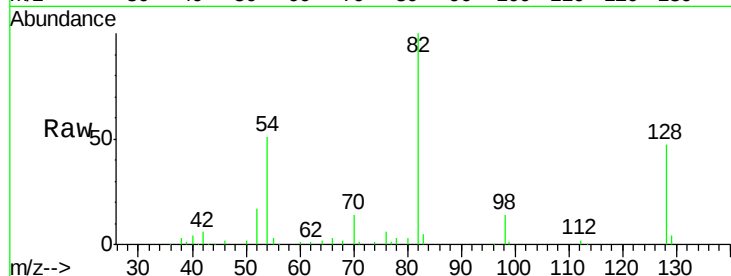




#23  
Nitrobenzene-d5  
Concen: 82.50 ng  
RT: 9.82 min Scan# 1112  
Delta R.T. -0.05 min  
Lab File: BG032718.D  
Acq: 15 Feb 2018 17:54

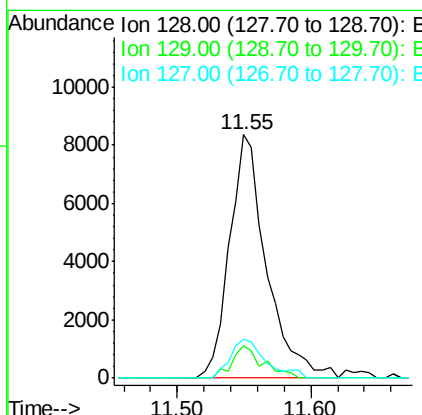
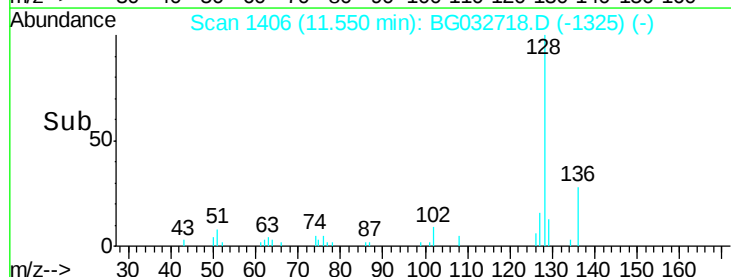
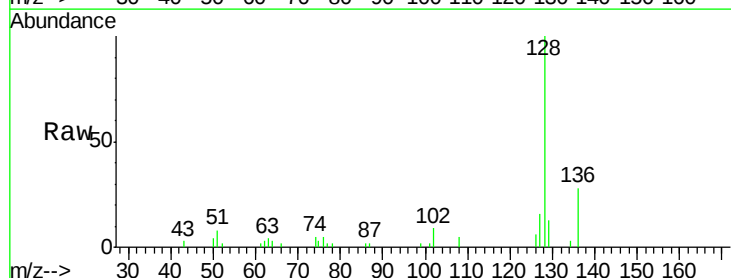
Instrument :  
BNA\_G  
ClientSampleId :

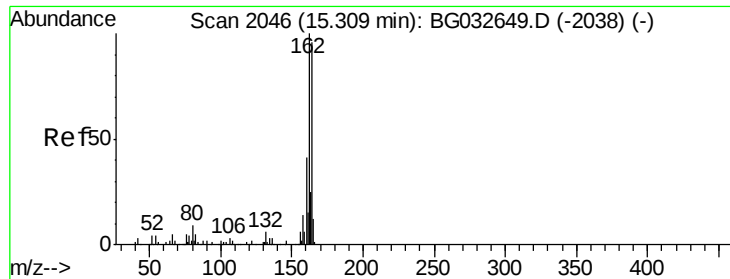
Tot Ion: 82 Resp: 131792  
Ion Ratio Lower Upper  
82 100  
128 47.0 29.7 44.5#  
54 51.3 43.1 64.7



#31  
Naphthalene  
Concen: 3.27 ng  
RT: 11.55 min Scan# 1406  
Delta R.T. -0.05 min  
Lab File: BG032718.D  
Acq: 15 Feb 2018 17:54

Tgt Ion:128 Resp: 16114  
Ion Ratio Lower Upper  
128 100  
129 13.3 8.6 12.8#  
127 15.7 11.6 17.4





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 15.27 min Scan# 2039

Delta R.T. -0.04 min

Lab File: BG032718.D

Acq: 15 Feb 2018 17:54

Instrument :

BNA\_G

ClientSampleId :

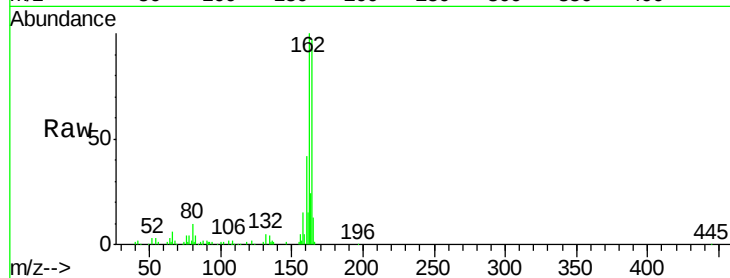
Tot Ion:164 Resp: 75624

Ion Ratio Lower Upper

164 100

162 103.1 78.8 118.2

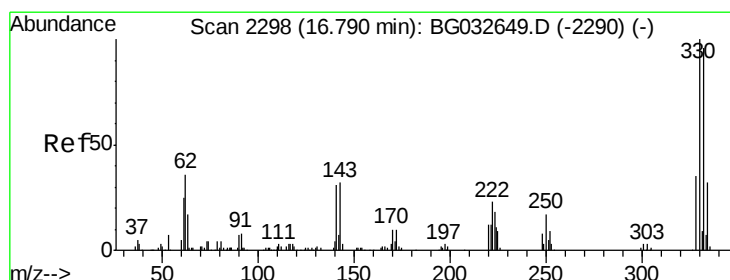
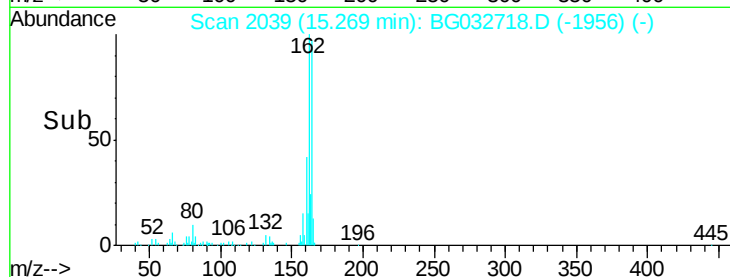
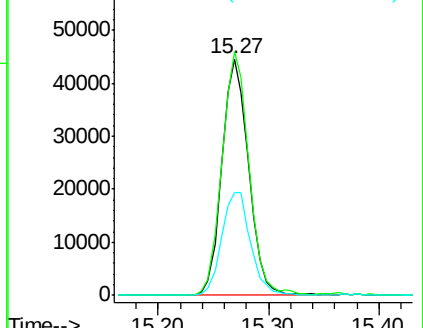
160 43.7 35.4 53.0



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: 185.98 ng

RT: 16.75 min Scan# 2291

Delta R.T. -0.04 min

Lab File: BG032718.D

Acq: 15 Feb 2018 17:54

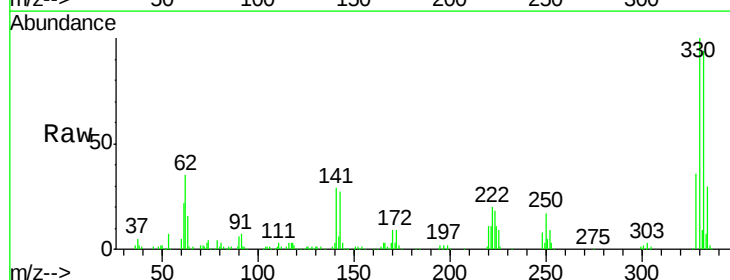
Tgt Ion:330 Resp: 216562

Ion Ratio Lower Upper

330 100

332 96.1 77.0 115.6

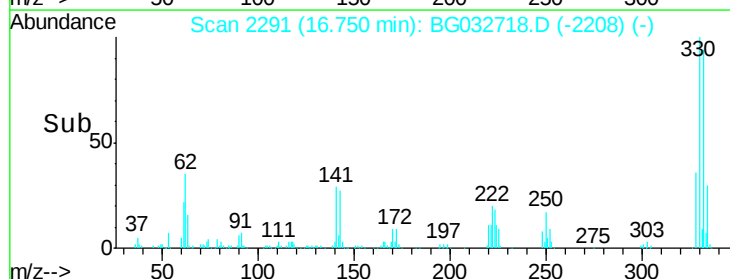
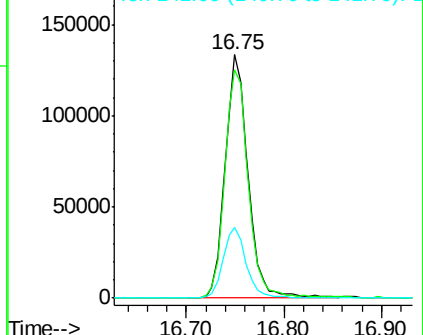
141 28.9 25.2 37.8

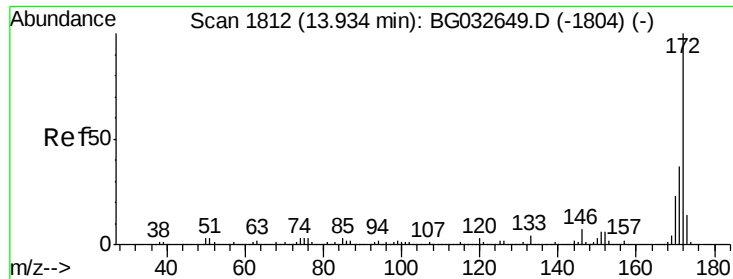


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

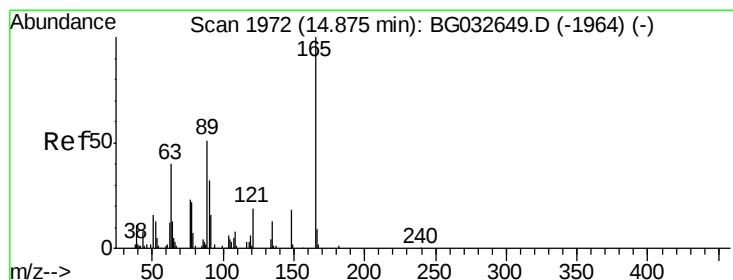
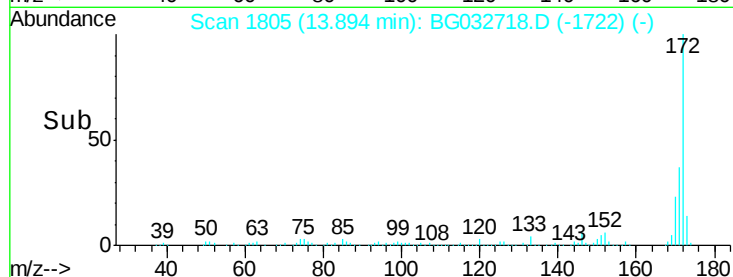
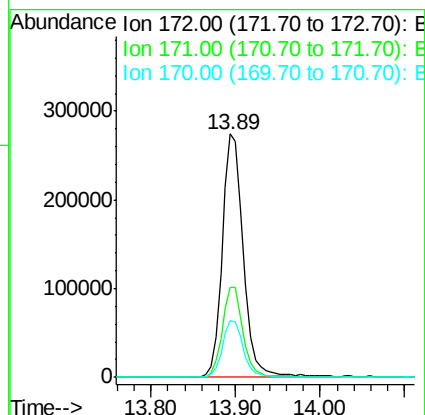
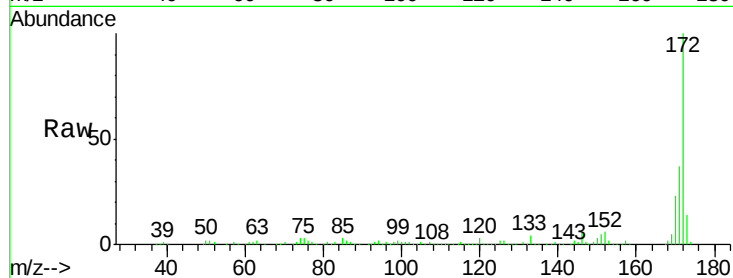




#44  
 2-Fluorobiphenyl  
 Concen: 78.88 ng  
 RT: 13.89 min Scan# 1805  
 Delta R.T. -0.04 min  
 Lab File: BG032718.D  
 Acq: 15 Feb 2018 17:54

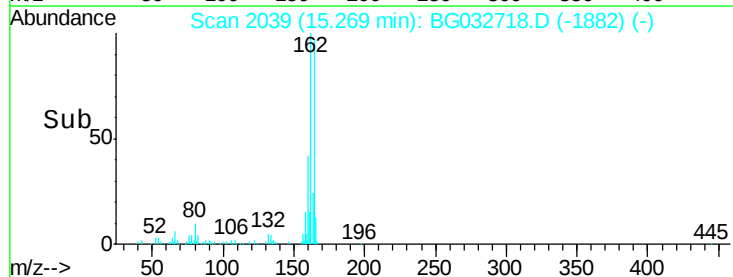
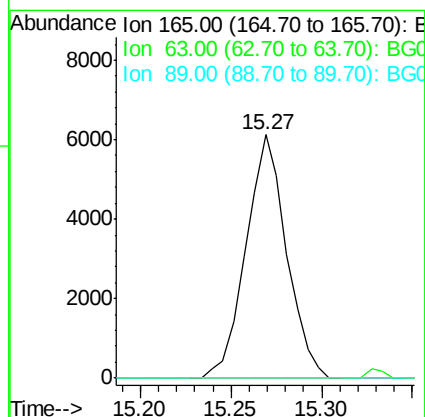
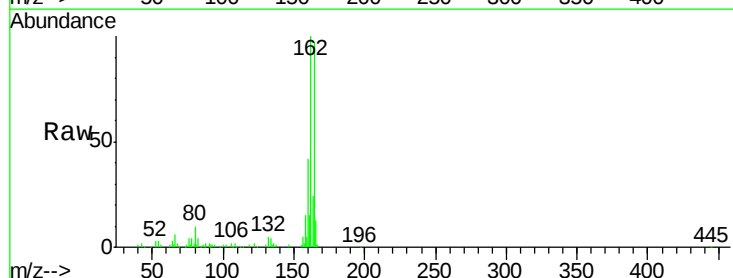
Instrument :  
 BNA\_G  
 ClientSampleId :

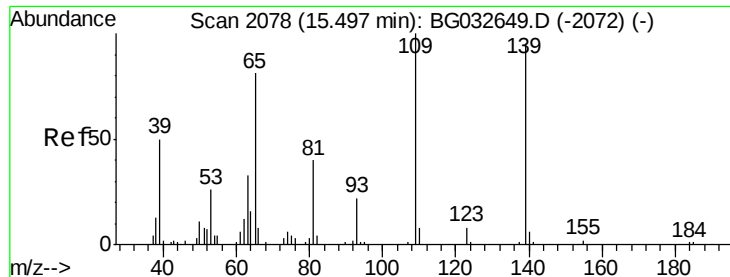
Tot Ion:172 Resp: 477015  
 Ion Ratio Lower Upper  
 172 100  
 171 37.2 30.0 45.0  
 170 23.5 19.5 29.3



#50  
 2,6-Dinitrotoluene  
 Concen: 7.04 ng  
 RT: 15.27 min Scan# 2039  
 Delta R.T. 0.39 min  
 Lab File: BG032718.D  
 Acq: 15 Feb 2018 17:54

Tgt Ion:165 Resp: 9471  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 52.7 79.1#  
 89 0.0 49.2 73.8#

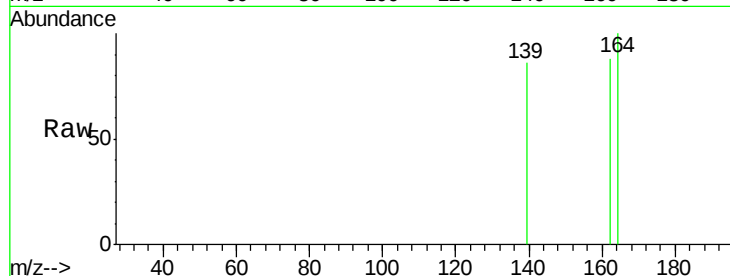




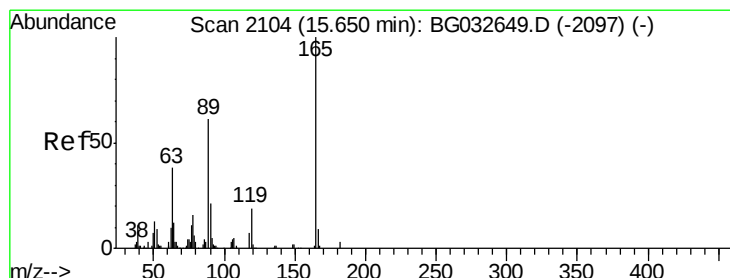
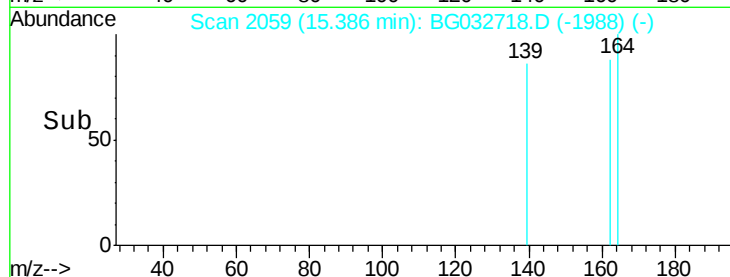
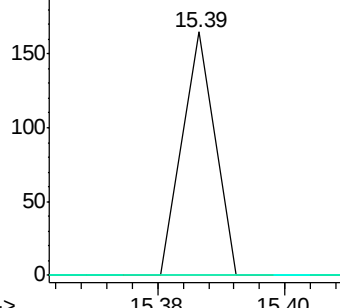
#55  
4-Nitrophenol  
Concen: 5.55 ng  
RT: 15.39 min Scan# 2059  
Delta R.T. -0.11 min  
Lab File: BG032718.D  
Acq: 15 Feb 2018 17:54

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:139 Resp: 58  
Ion Ratio Lower Upper  
139 100  
109 0.0 62.2 102.2#  
65 0.0 97.2 137.2#

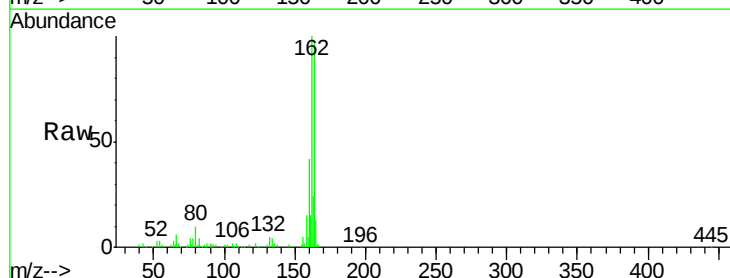


Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): B

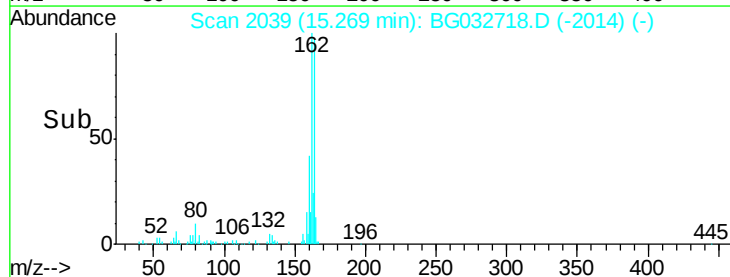
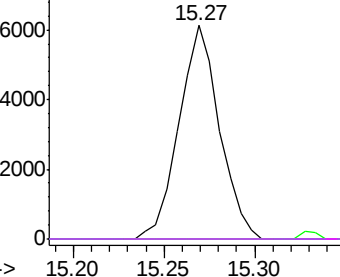


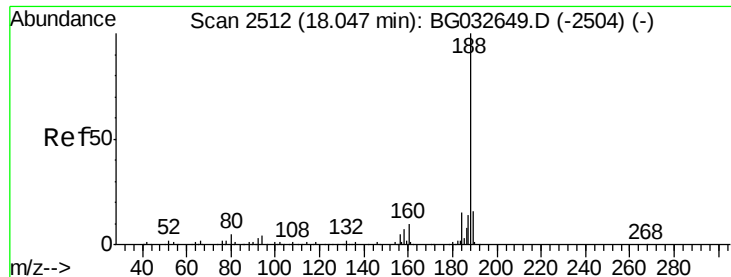
#56  
2,4-Dinitrotoluene  
Concen: 5.11 ng  
RT: 15.27 min Scan# 2039  
Delta R.T. -0.38 min  
Lab File: BG032718.D  
Acq: 15 Feb 2018 17:54

Tgt Ion:165 Resp: 9471  
Ion Ratio Lower Upper  
165 100  
63 0.0 42.0 63.0#  
89 0.0 66.9 100.3#  
182 0.0 2.6 3.8#



Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): B  
Ion 89.00 (88.70 to 89.70): B  
Ion 182.00 (181.70 to 182.70): E

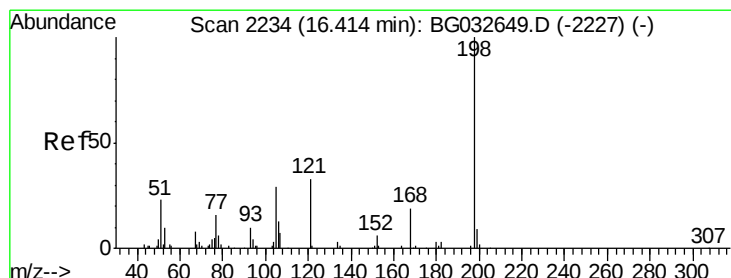
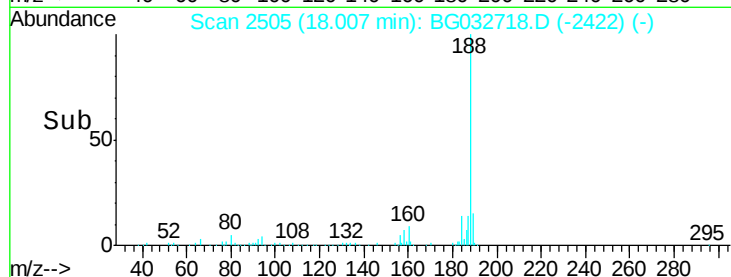
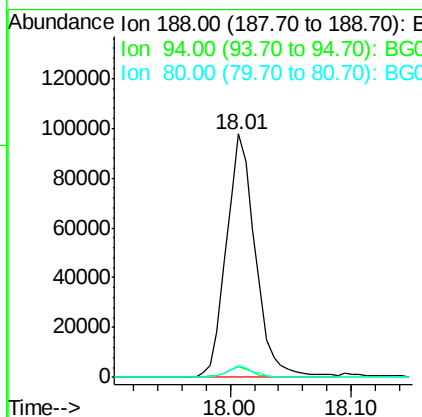
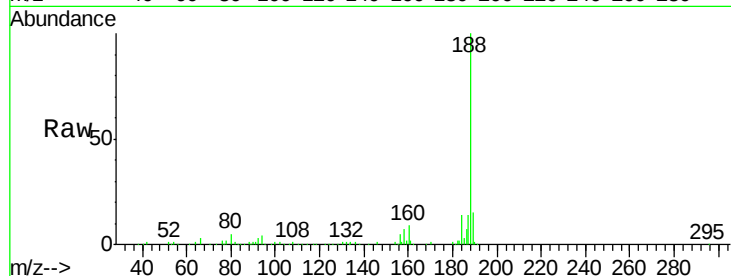




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 18.01 min Scan# 2505  
Delta R.T. -0.04 min  
Lab File: BG032718.D  
Acq: 15 Feb 2018 17:54

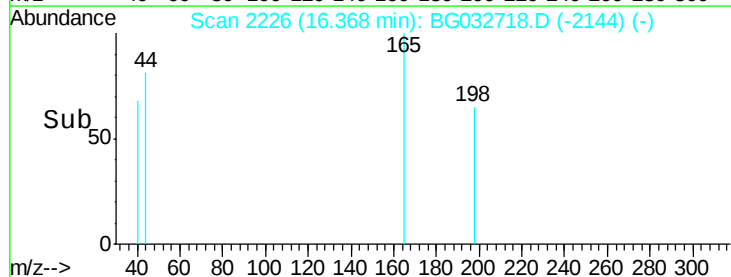
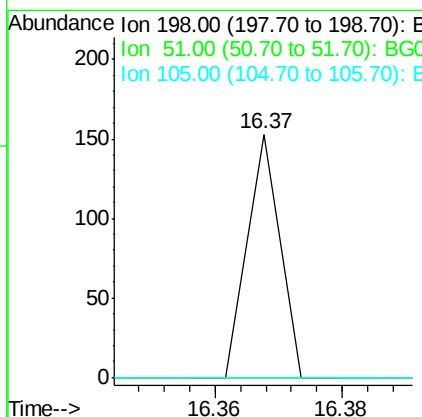
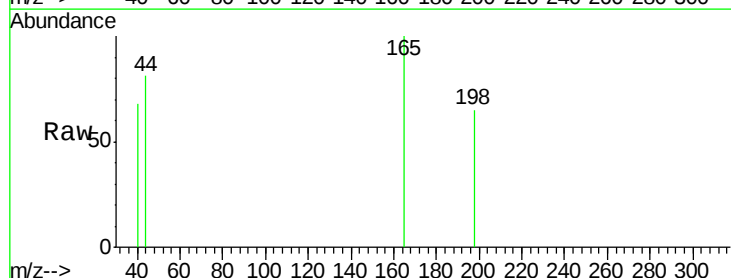
Instrument :  
BNA\_G  
ClientSampleId :

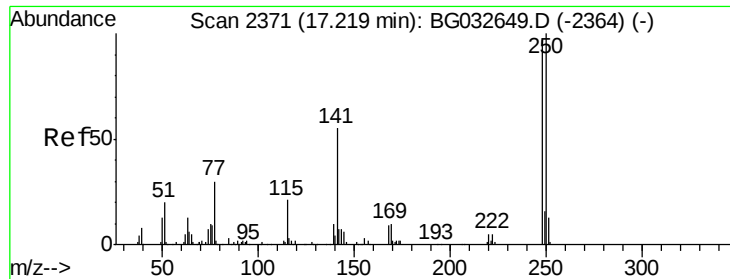
Tot Ion:188 Resp: 163821  
Ion Ratio Lower Upper  
188 100  
94 4.2 6.9 10.3#  
80 4.6 7.7 11.5#



#64  
4,6-Dinitro-2-methylphenol  
Concen: 5.06 ng  
RT: 16.37 min Scan# 2226  
Delta R.T. -0.05 min  
Lab File: BG032718.D  
Acq: 15 Feb 2018 17:54

Tgt Ion:198 Resp: 54  
Ion Ratio Lower Upper  
198 100  
51 0.0 30.6 70.6#  
105 0.0 23.8 63.8#

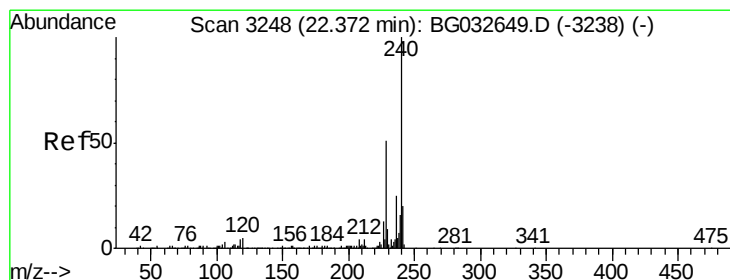
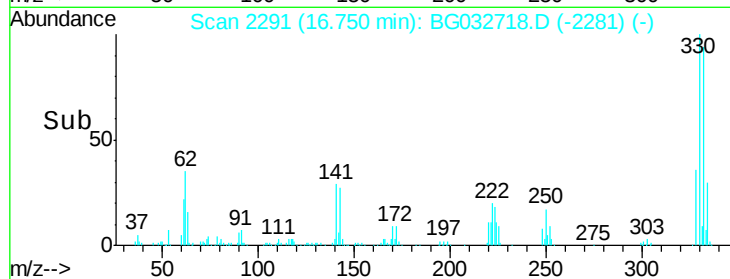
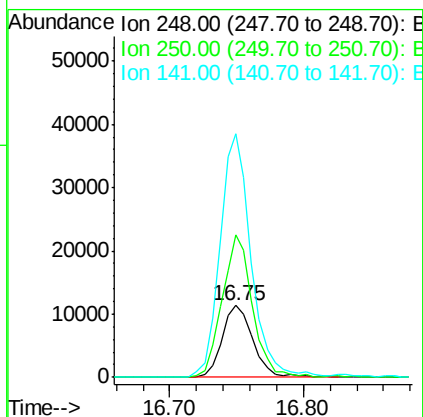
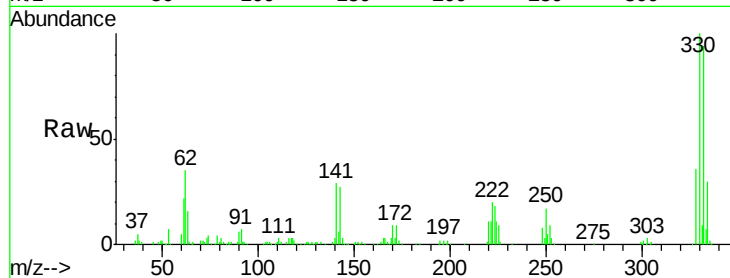




#66  
4-Bromophenyl-phenylether  
Concen: 7.82 ng  
RT: 16.75 min Scan# 2291  
Delta R.T. -0.47 min  
Lab File: BG032718.D  
Acq: 15 Feb 2018 17:54

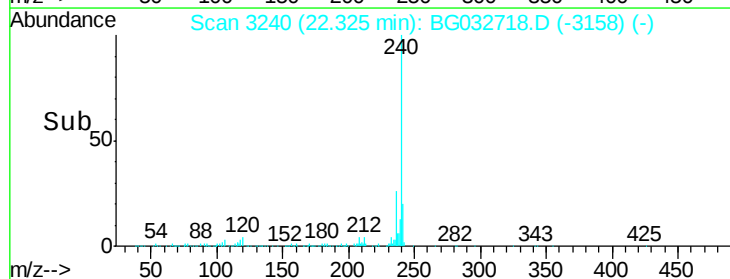
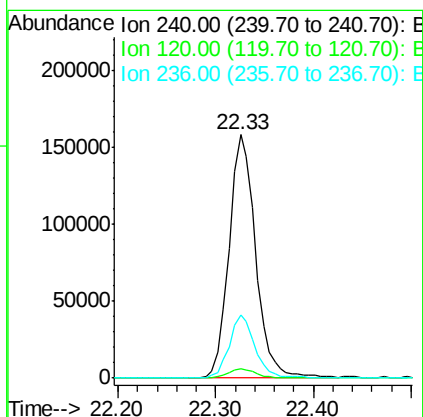
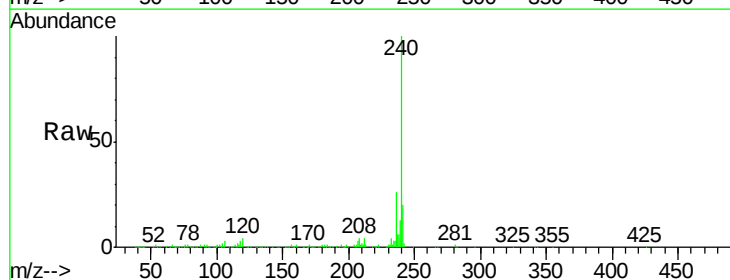
Instrument :  
BNA\_G  
ClientSampled :

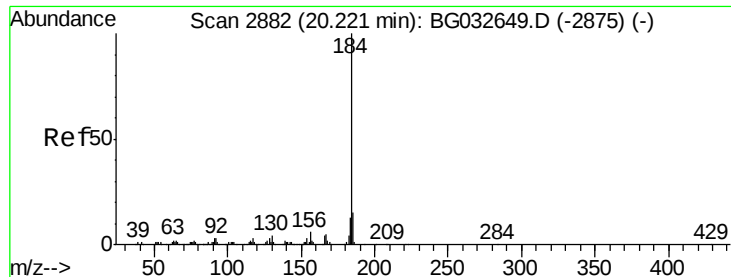
Tot Ion:248 Resp: 18325  
Ion Ratio Lower Upper  
248 100  
250 199.3 77.1 115.7#  
141 339.8 50.8 76.2#



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 22.33 min Scan# 3240  
Delta R.T. -0.05 min  
Lab File: BG032718.D  
Acq: 15 Feb 2018 17:54

Tgt Ion:240 Resp: 298206  
Ion Ratio Lower Upper  
240 100  
120 3.7 6.8 10.2#  
236 26.2 20.9 31.3





#76

Benzidine

Concen: 2.82 ng

RT: 20.56 min Scan# 2939

Delta R.T. 0.34 min

Lab File: BG032718.D

Acq: 15 Feb 2018 17:54

Instrument :

BNA\_G

ClientSampleId :

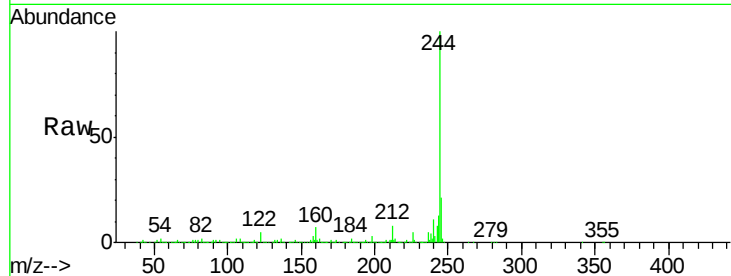
Tot Ion:184 Resp: 19795

Ion Ratio Lower Upper

184 100

185 14.8 11.1 16.7

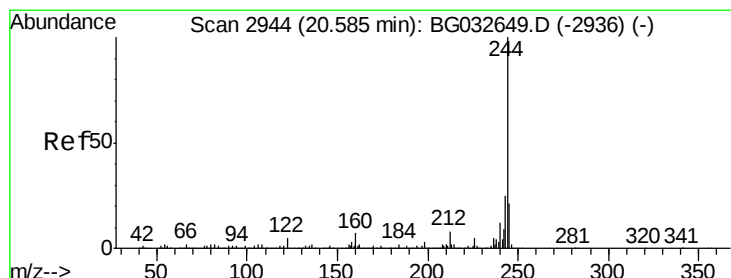
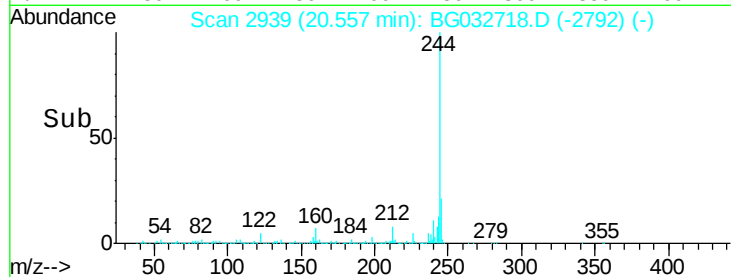
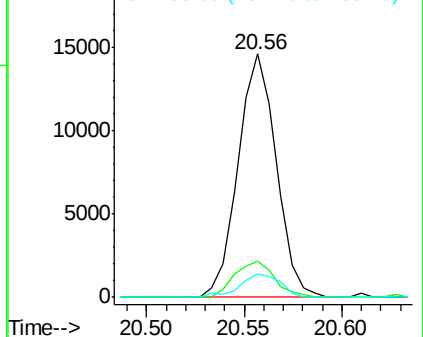
183 9.7 10.6 16.0#



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: 104.34 ng

RT: 20.56 min Scan# 2939

Delta R.T. -0.03 min

Lab File: BG032718.D

Acq: 15 Feb 2018 17:54

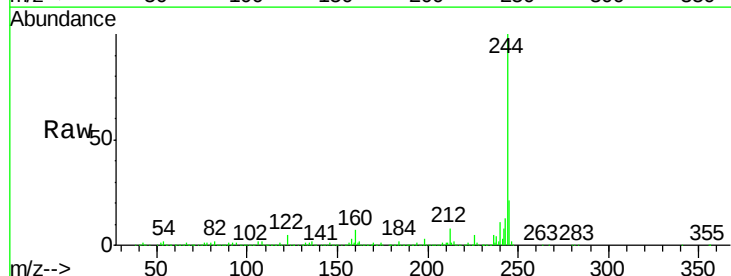
Tgt Ion:244 Resp: 1365148

Ion Ratio Lower Upper

244 100

212 7.5 5.8 8.8

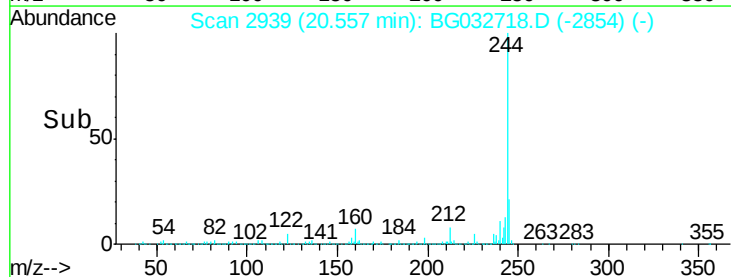
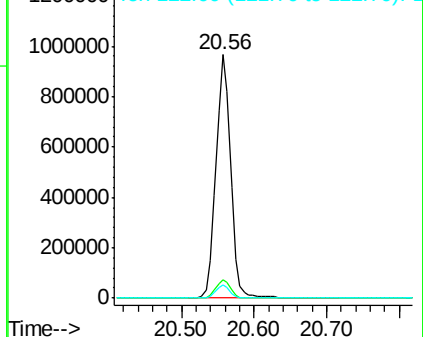
122 5.2 7.0 10.4#

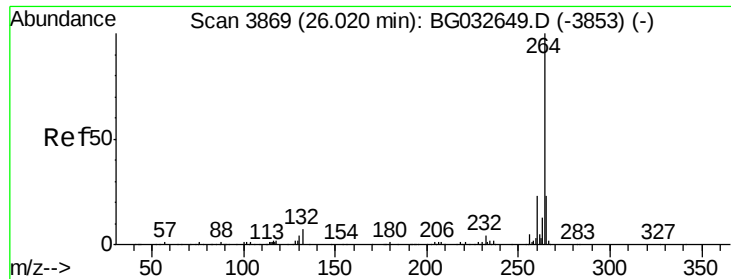


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 25.94 min Scan# 3856  
Delta R.T. -0.08 min  
Lab File: BG032718.D  
Acq: 15 Feb 2018 17:54

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.6  | 17.4  | 26.0  |
| 265     | 20.9  | 17.7  | 26.5  |

