

Data Path : Z:\HPCHEM1\BNA G\DATA\BG021518\  
 Data File : BG032719.D  
 Acq On : 15 Feb 2018 18:32  
 Operator : SJ/JU  
 Sample : J1393-06  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Feb 16 02:25:37 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  | 20689    | 20.00 | ng    | -0.05    |
| 21) Naphthalene-d8        | 11.50 | 136  | 78868    | 20.00 | ng    | -0.05    |
| 38) Acenaphthene-d10      | 15.27 | 164  | 54116    | 20.00 | ng    | -0.04    |
| 63) Phenanthrene-d10      | 18.01 | 188  | 149411   | 20.00 | ng    | -0.04    |
| 75) Chrysene-d12          | 22.32 | 240  | 248979   | 20.00 | ng    | -0.05    |
| 86) Perylene-d12          | 25.94 | 264  | 345097   | 20.00 | ng    | -0.08    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 6.07  | 112  | 134226   | 130.17 | ng    | -0.04    |
| 7) Phenol-d6                | 7.75  | 99   | 135127   | 95.83  | ng    | -0.04    |
| 23) Nitrobenzene-d5         | 9.82  | 82   | 110295   | 88.88  | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol    | 16.75 | 330  | 168351   | 202.04 | ng    | -0.04    |
| 44) 2-Fluorobiphenyl        | 13.90 | 172  | 403342   | 93.21  | ng    | -0.04    |
| 78) Terphenyl-d14           | 20.56 | 244  | 964877   | 88.33  | ng    | -0.03    |

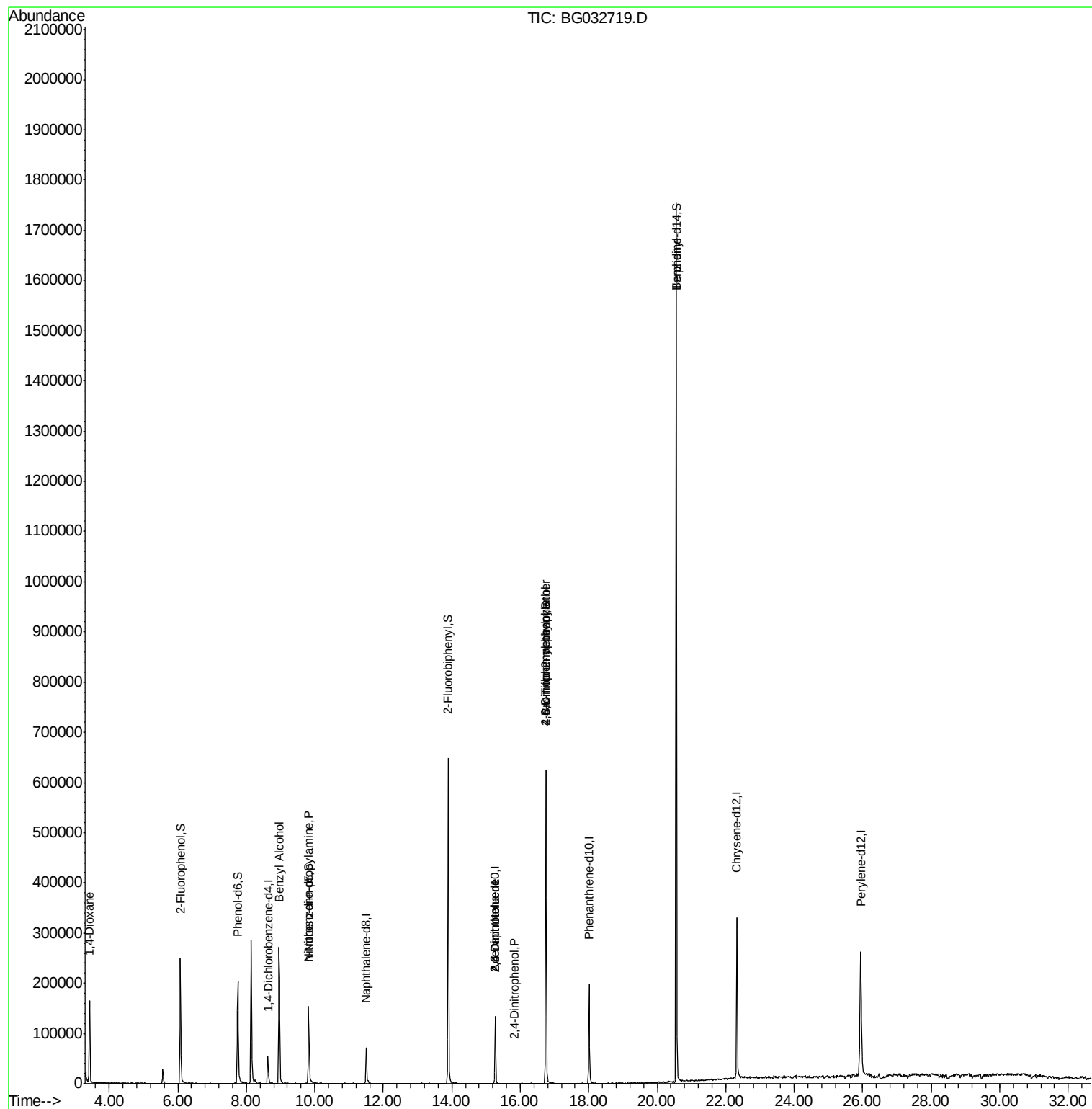
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.43  | 88   | 1930     | 4.47  | ng    | # 1    |
| 15) Benzyl Alcohol             | 8.96  | 79   | 2183     | 2.07  | ng    | # 34   |
| 19) n-Nitroso-di-n-propylamine | 9.82  | 70   | 15419    | 16.27 | ng    | # 74   |
| 50) 2,6-Dinitrotoluene         | 15.26 | 165  | 6935     | 7.20  | ng    | # 18   |
| 53) 2,4-Dinitrophenol          | 15.83 | 184  | 55       | 11.55 | ng    | # 1    |
| 56) 2,4-Dinitrotoluene         | 15.26 | 165  | 6935     | 5.22  | ng    | # 16   |
| 64) 4,6-Dinitro-2-methylphenol | 16.74 | 198  | 248      | 5.23  | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 16.75 | 248  | 11735    | 5.49  | ng    | # 1    |
| 76) Benzidine                  | 20.56 | 184  | 13786    | 2.35  | ng    | # 88   |

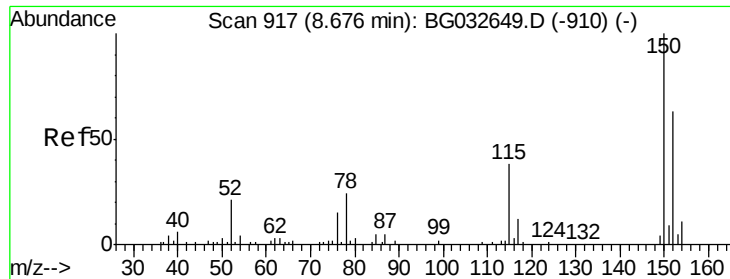
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_G  
ClientSampleId :

Quant Time: Feb 16 02:25:37 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: BG032719.D

Acq: 15 Feb 2018 18:32

Instrument :

BNA\_G

ClientSampleId :

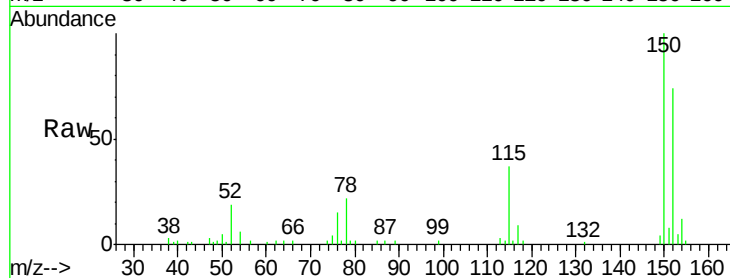
Tot Ion:152 Resp: 20689

Ion Ratio Lower Upper

152 100

150 134.3 126.6 189.8

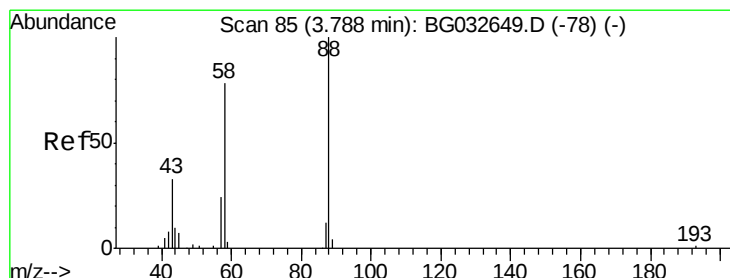
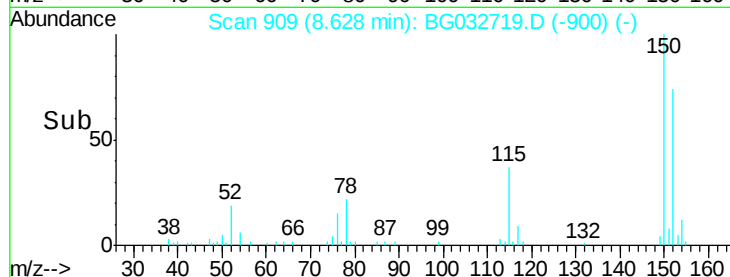
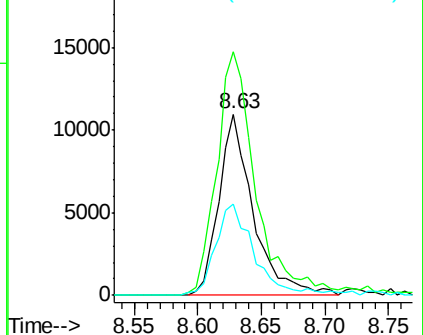
115 50.0 53.0 79.4#



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: 3.43 min Scan# 24

Delta R.T. -0.36 min

Lab File: BG032719.D

Acq: 15 Feb 2018 18:32

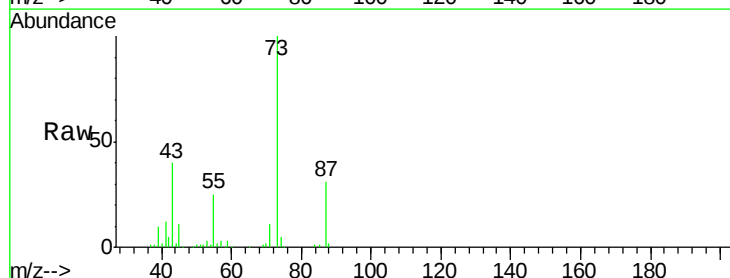
Tgt Ion: 88 Resp: 1930

Ion Ratio Lower Upper

88 100

58 41.5 79.6 119.4#

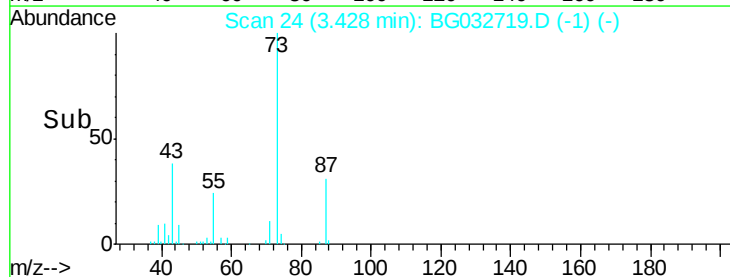
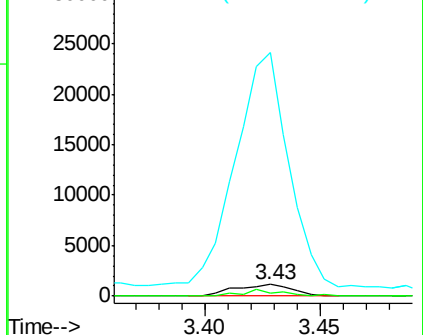
43 1977.7 27.4 41.0#

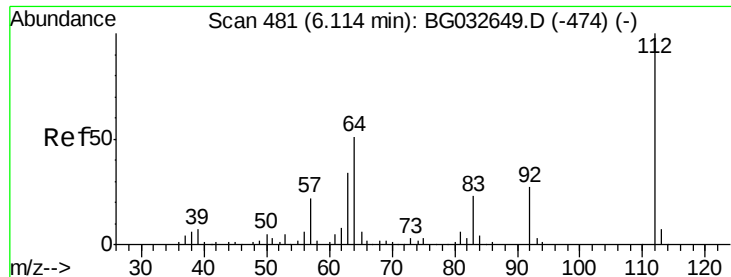


Abundance Ion 88.00 (87.70 to 88.70): BGC

Ion 58.00 (57.70 to 58.70): BGC

Ion 43.00 (42.70 to 43.70): BGC

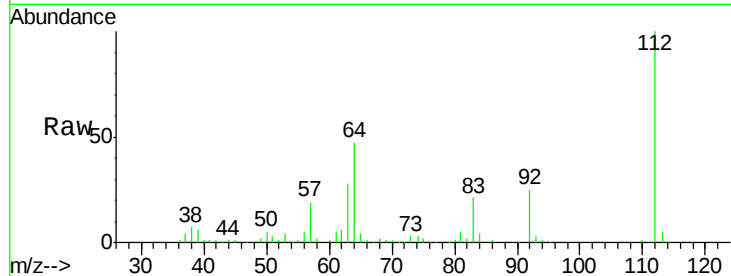




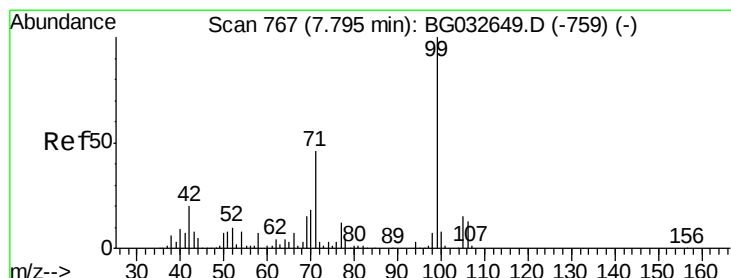
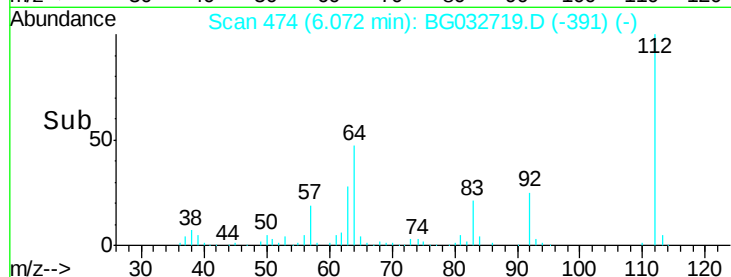
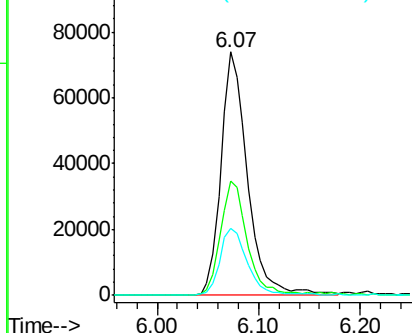
#5  
2-Fluorophenol  
Concen: 130.17 ng  
RT: 6.07 min Scan# 474  
Delta R.T. -0.04 min  
Lab File: BG032719.D  
Acq: 15 Feb 2018 18:32

Instrument :  
BNA\_G  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 46.9  | 56.3  | 84.5# |
| 63      | 27.7  | 30.1  | 45.1# |

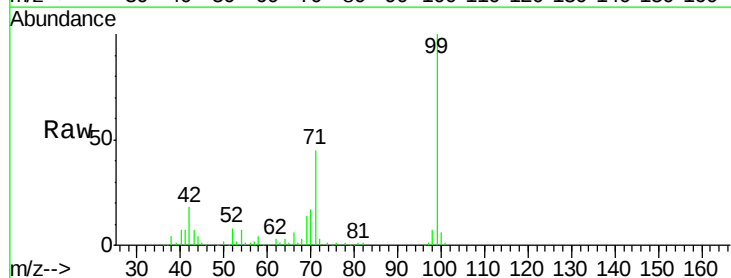


Abundance Ion 112.00 (111.70 to 112.70): BGC  
Ion 64.00 (63.70 to 64.70): BGC  
Ion 63.00 (62.70 to 63.70): BGC

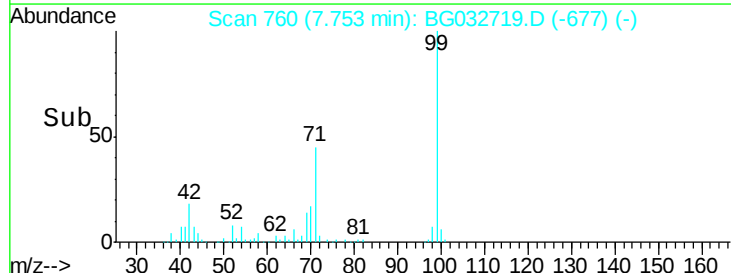
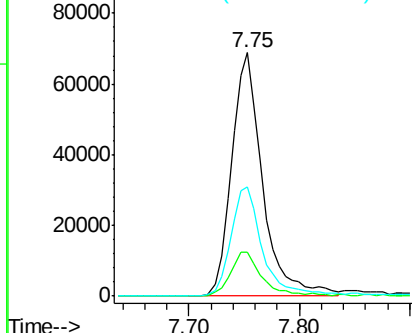


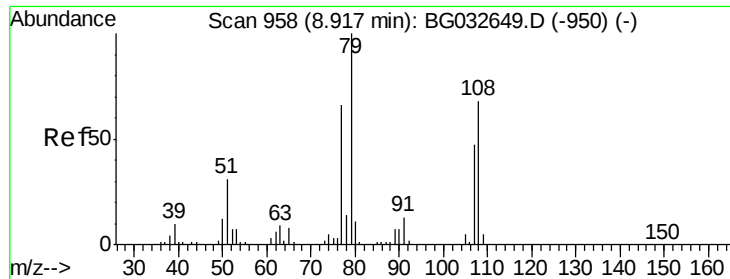
#7  
Phenol-d6  
Concen: 95.83 ng  
RT: 7.75 min Scan# 760  
Delta R.T. -0.04 min  
Lab File: BG032719.D  
Acq: 15 Feb 2018 18:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 18.1  | 14.1  | 21.1  |
| 71      | 45.0  | 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





#15

Benzyl Alcohol

Concen: 2.07 ng

RT: 8.96 min Scan# 966

Delta R.T. 0.05 min

Lab File: BG032719.D

Acq: 15 Feb 2018 18:32

Instrument :

BNA\_G

ClientSampleId :

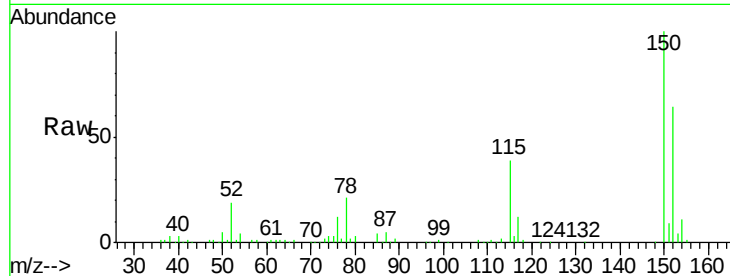
Tot Ion: 79 Resp: 2183

Ion Ratio Lower Upper

79 100

108 25.6 57.2 85.8#

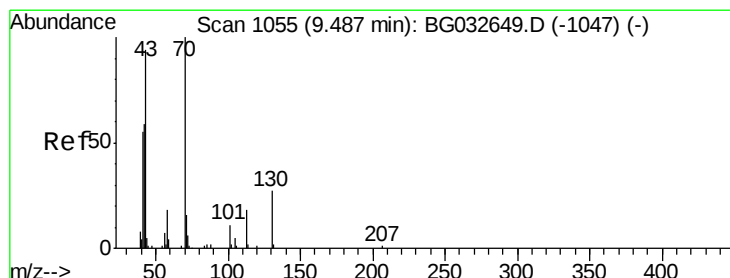
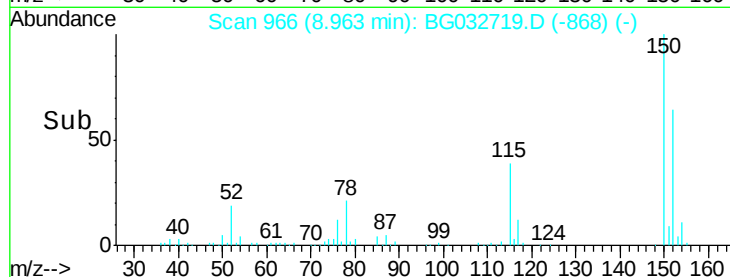
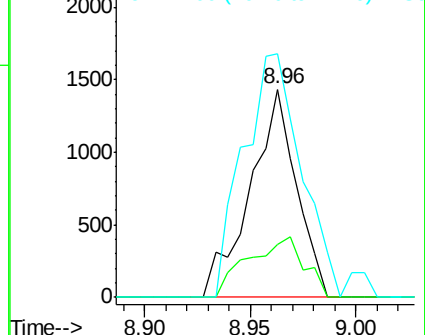
77 117.0 46.1 69.1#



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: 16.27 ng

RT: 9.82 min Scan# 1112

Delta R.T. 0.33 min

Lab File: BG032719.D

Acq: 15 Feb 2018 18:32

Tgt Ion: 70 Resp: 15419

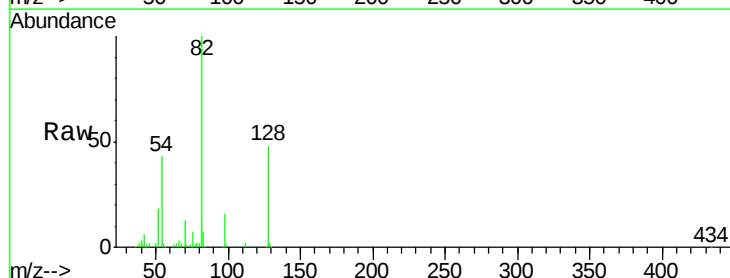
Ion Ratio Lower Upper

70 100

42 43.4 49.1 73.7#

101 0.0 8.5 12.7#

130 2.2 13.4 20.0#

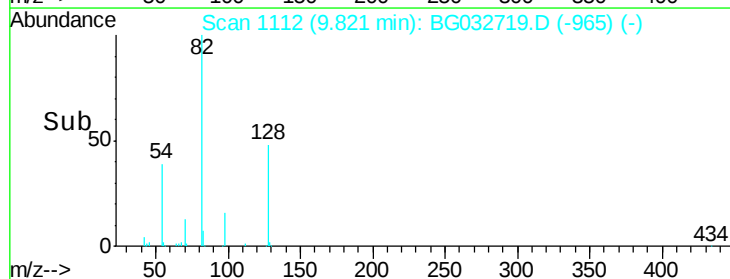
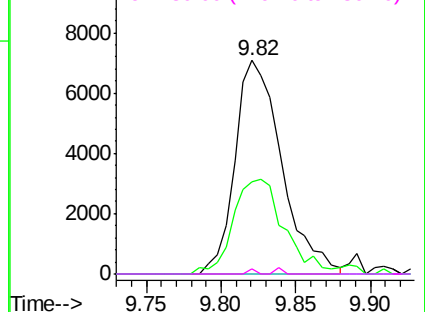


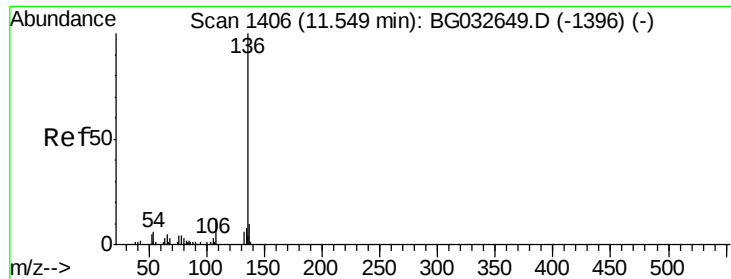
Abundance Ion 70.00 (69.70 to 70.70): BGC

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: 20.00 ng

RT: 11.50 min Scan# 1398

Delta R.T. -0.05 min

Lab File: BG032719.D

Acq: 15 Feb 2018 18:32

Instrument :

BNA\_G

ClientSampleId :

Tot Ion:136 Resp: 78868

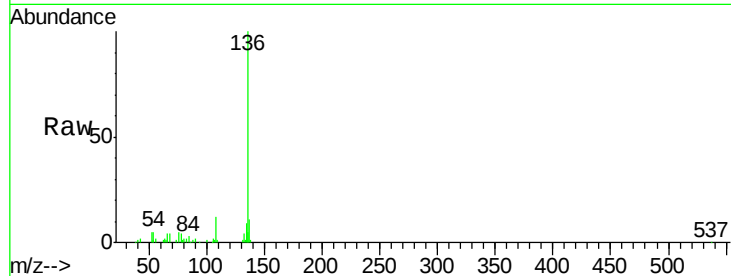
Ion Ratio Lower Upper

136 100

137 11.4 9.2 13.8

54 5.1 10.3 15.5#

68 3.6 4.5 6.7#

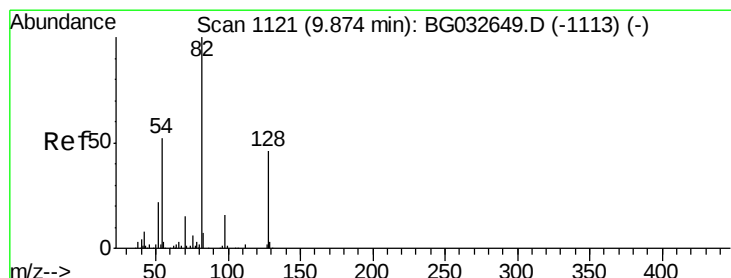
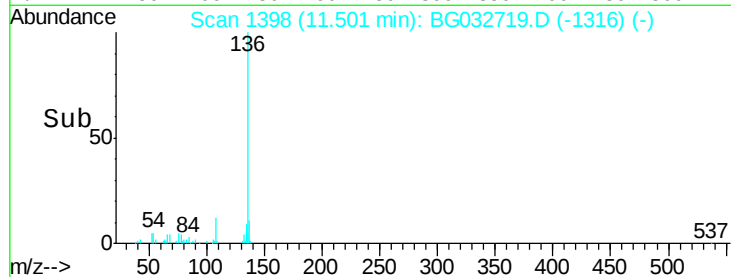
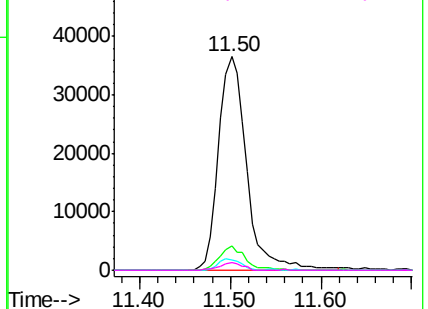


Abundance Ion 136.00 (135.70 to 136.70): E

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: 88.88 ng

RT: 9.82 min Scan# 1112

Delta R.T. -0.05 min

Lab File: BG032719.D

Acq: 15 Feb 2018 18:32

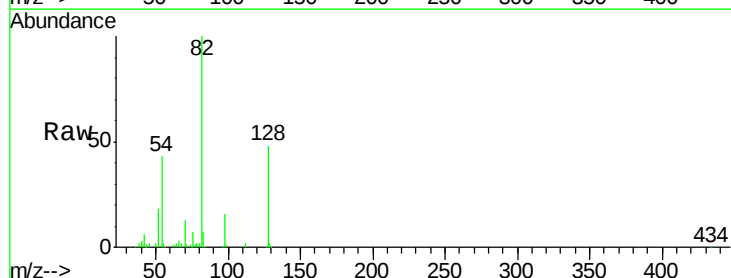
Tgt Ion: 82 Resp: 110295

Ion Ratio Lower Upper

82 100

128 47.7 29.7 44.5#

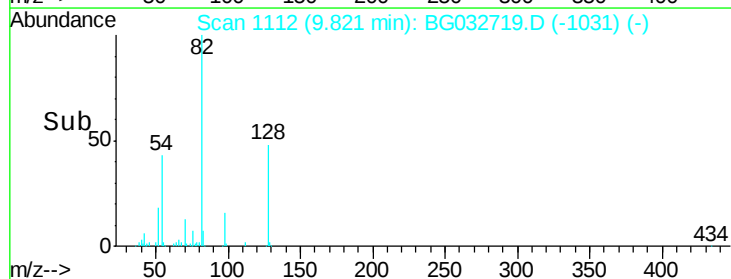
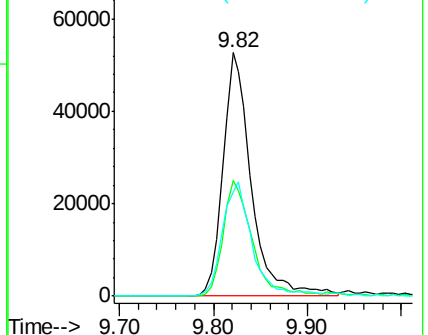
54 42.9 43.1 64.7#

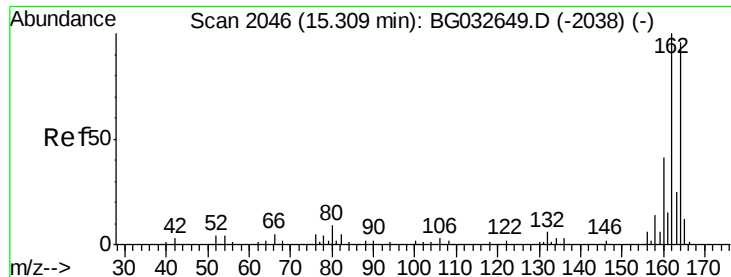


Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BGC





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 15.27 min Scan# 2039

Delta R.T. -0.04 min

Lab File: BG032719.D

Acq: 15 Feb 2018 18:32

Instrument :

BNA\_G

ClientSampleId :

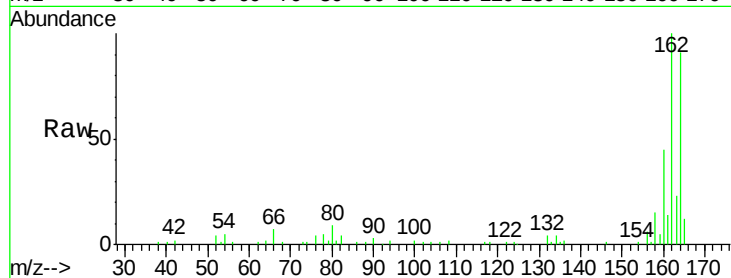
Tot Ion:164 Resp: 54116

Ion Ratio Lower Upper

164 100

162 110.2 78.8 118.2

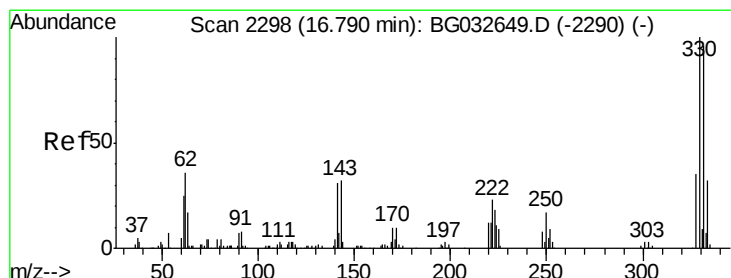
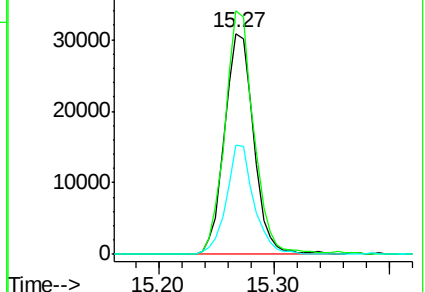
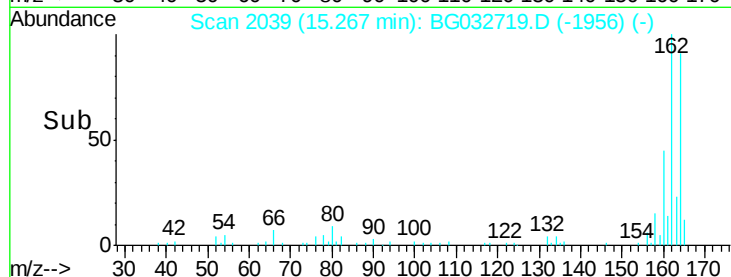
160 49.6 35.4 53.0



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: 202.04 ng

RT: 16.75 min Scan# 2291

Delta R.T. -0.04 min

Lab File: BG032719.D

Acq: 15 Feb 2018 18:32

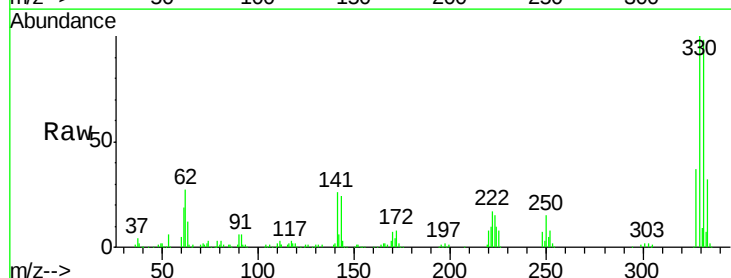
Tgt Ion:330 Resp: 168351

Ion Ratio Lower Upper

330 100

332 95.8 77.0 115.6

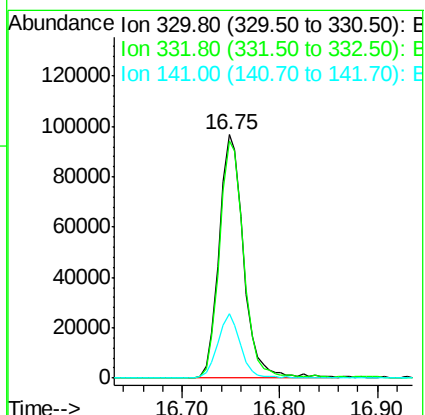
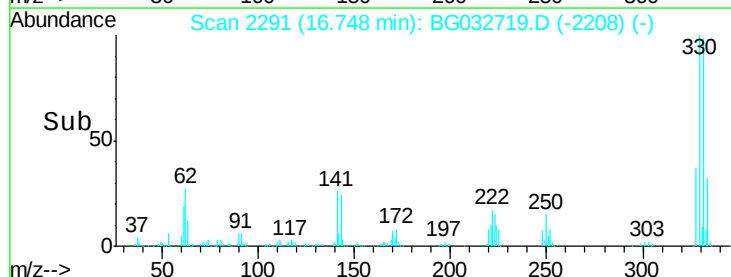
141 24.7 25.2 37.8#

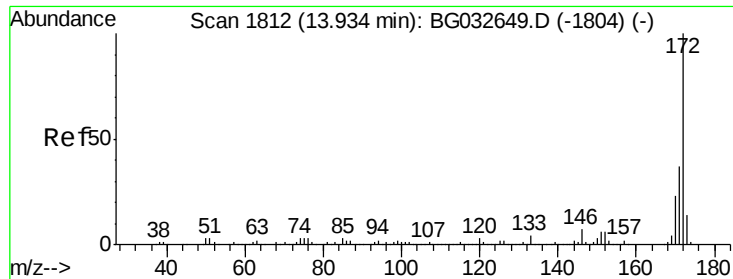


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

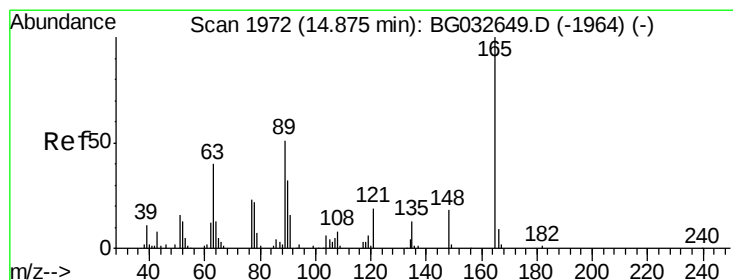
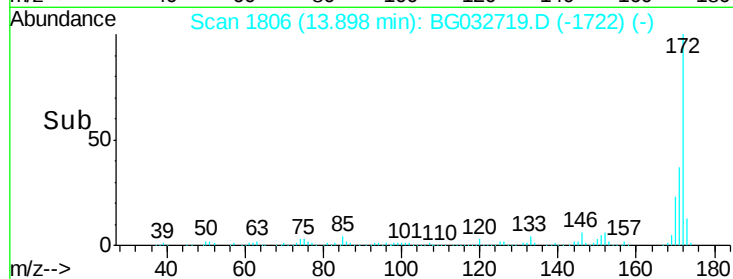
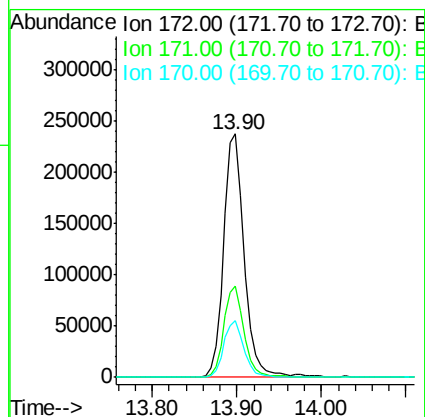
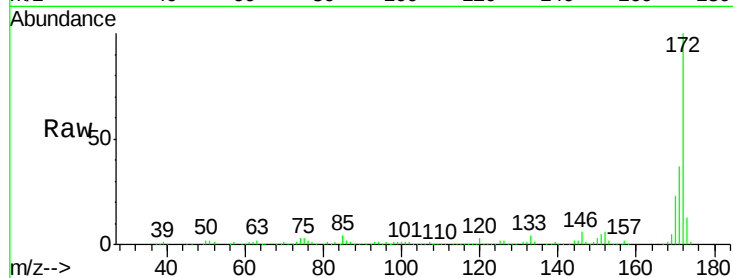




#44  
 2-Fluorobiphenyl  
 Concen: 93.21 ng  
 RT: 13.90 min Scan# 1806  
 Delta R.T. -0.04 min  
 Lab File: BG032719.D  
 Acq: 15 Feb 2018 18:32

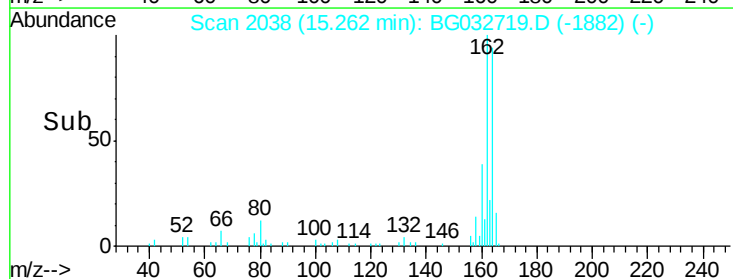
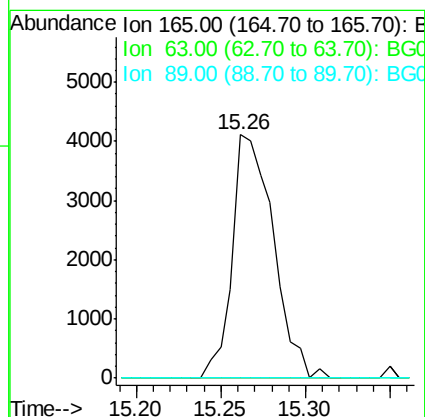
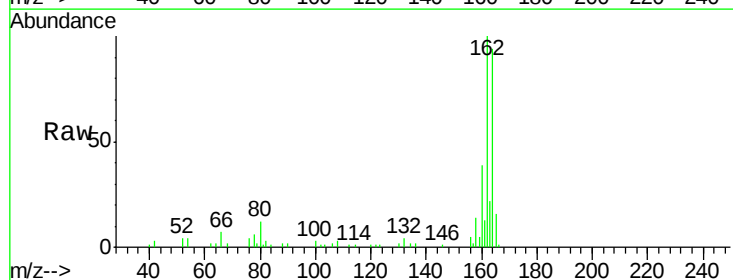
Instrument :  
 BNA\_G  
 ClientSampleId :

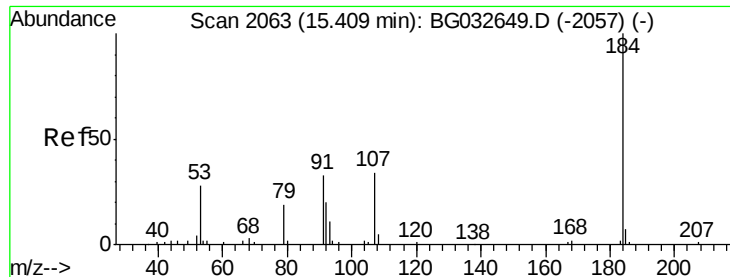
Tot Ion:172 Resp: 403342  
 Ion Ratio Lower Upper  
 172 100  
 171 37.3 30.0 45.0  
 170 23.3 19.5 29.3



#50  
 2,6-Dinitrotoluene  
 Concen: 7.20 ng  
 RT: 15.26 min Scan# 2038  
 Delta R.T. 0.39 min  
 Lab File: BG032719.D  
 Acq: 15 Feb 2018 18:32

Tgt Ion:165 Resp: 6935  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 52.7 79.1#  
 89 0.0 49.2 73.8#





#53

2,4-Dinitrophenol

Concen: 11.55 ng

RT: 15.83 min Scan# 2135

Delta R.T. 0.42 min

Lab File: BG032719.D

Acq: 15 Feb 2018 18:32

Instrument :

BNA\_G

ClientSampleId :

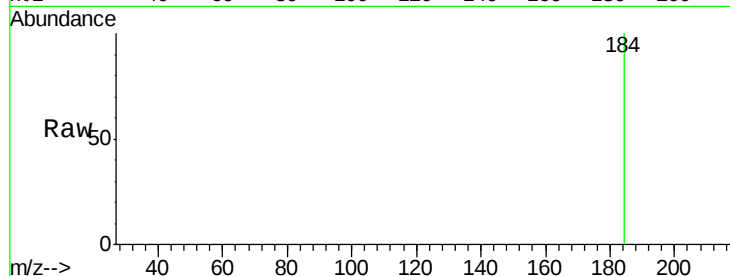
Tot Ion:184 Resp: 55

Ion Ratio Lower Upper

184 100

63 0.0 59.8 89.8#

154 0.0 101.8 152.8#



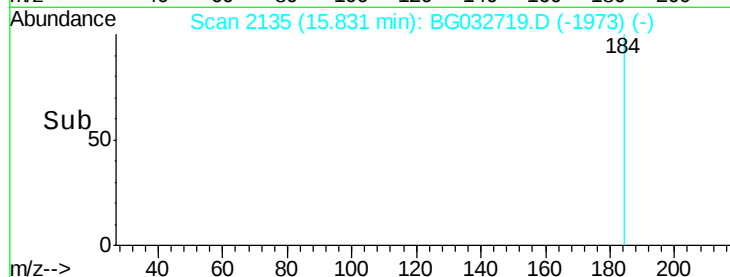
Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BGC

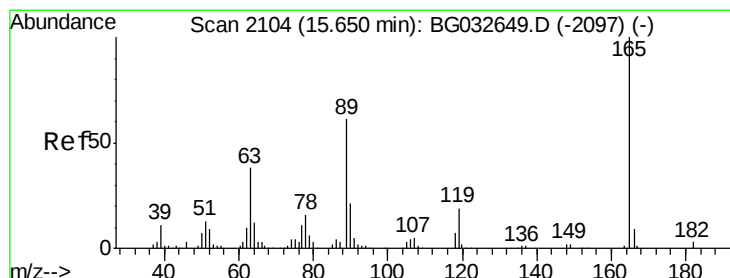
Ion 154.00 (153.70 to 154.70): E

15.83

15.82 15.84



Time-->



#56

2,4-Dinitrotoluene

Concen: 5.22 ng

RT: 15.26 min Scan# 2038

Delta R.T. -0.39 min

Lab File: BG032719.D

Acq: 15 Feb 2018 18:32

Tgt Ion:165 Resp: 6935

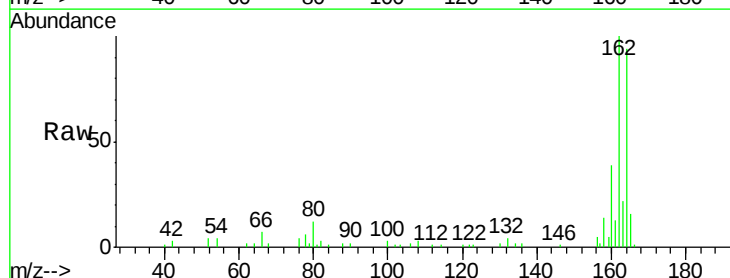
Ion Ratio Lower Upper

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

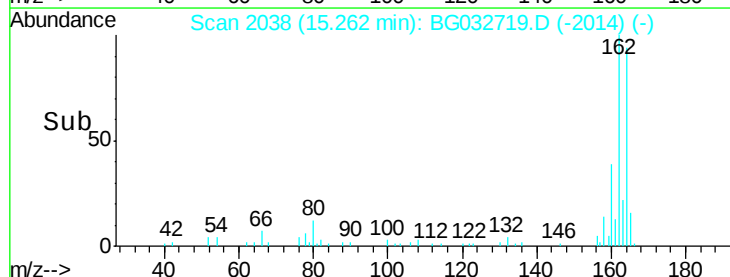
Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

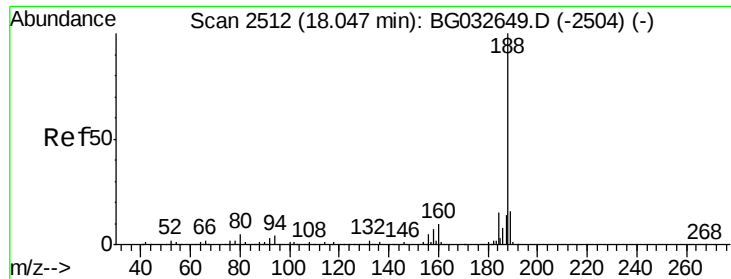
Ion 182.00 (181.70 to 182.70): E

15.26

15.20 15.25 15.30



Time-->



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 18.01 min Scan# 2505

Delta R.T. -0.04 min

Lab File: BG032719.D

Acq: 15 Feb 2018 18:32

Instrument :

BNA\_G

ClientSampleId :

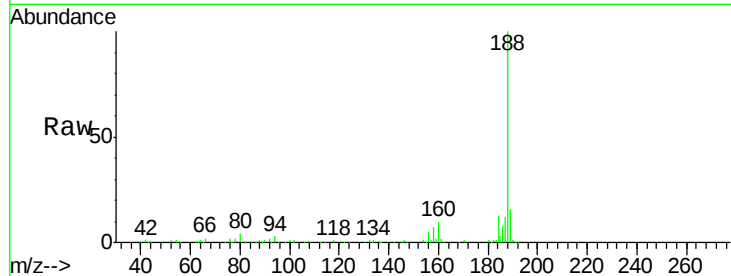
Tot Ion:188 Resp: 149411

Ion Ratio Lower Upper

188 100

94 3.3 6.9 10.3#

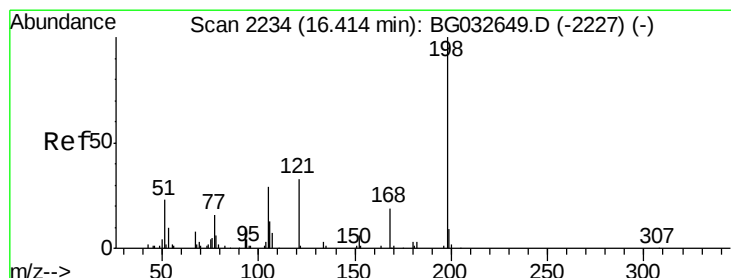
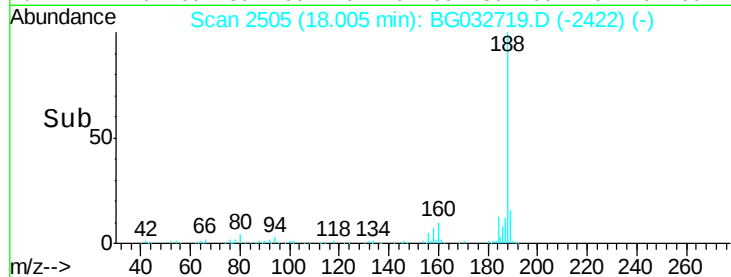
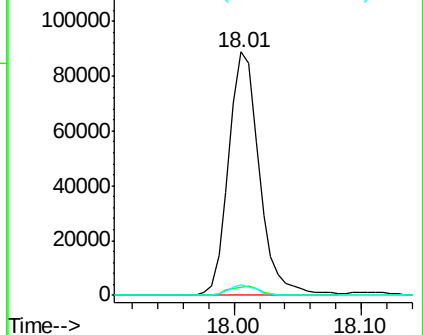
80 4.2 7.7 11.5#



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



#64

4,6-Dinitro-2-methylphenol

Concen: 5.23 ng

RT: 16.74 min Scan# 2290

Delta R.T. 0.33 min

Lab File: BG032719.D

Acq: 15 Feb 2018 18:32

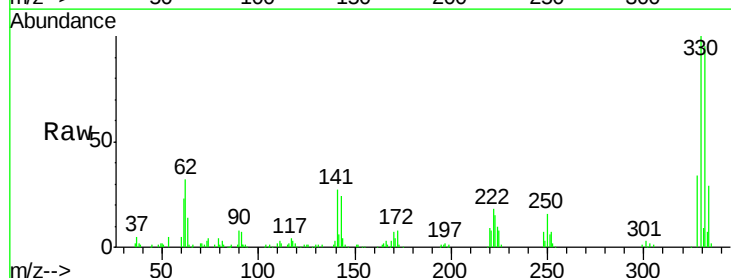
Tgt Ion:198 Resp: 248

Ion Ratio Lower Upper

198 100

51 256.3 30.6 70.6#

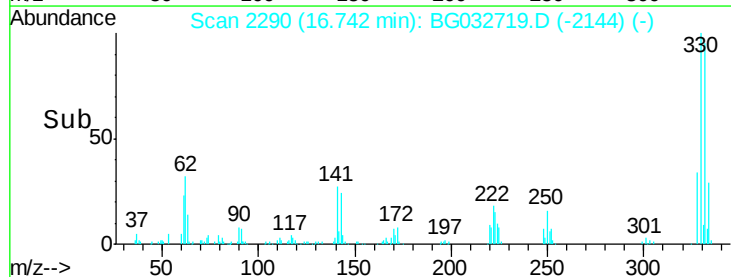
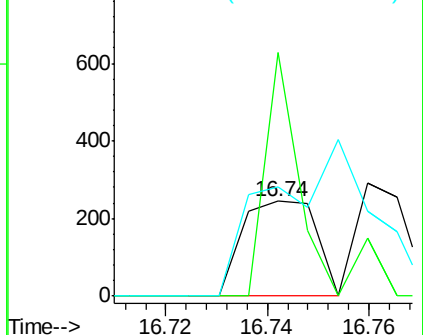
105 115.1 23.8 63.8#

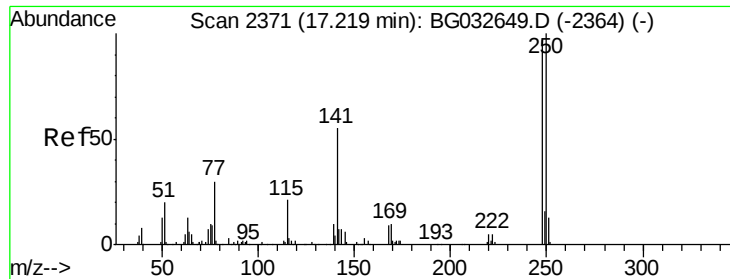


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BGC

Ion 105.00 (104.70 to 105.70): E

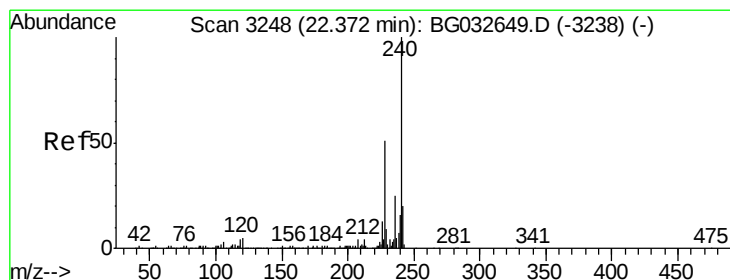
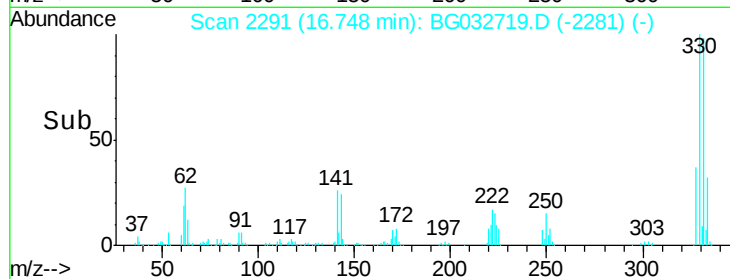
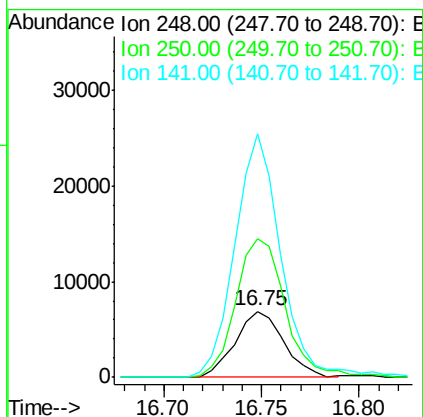
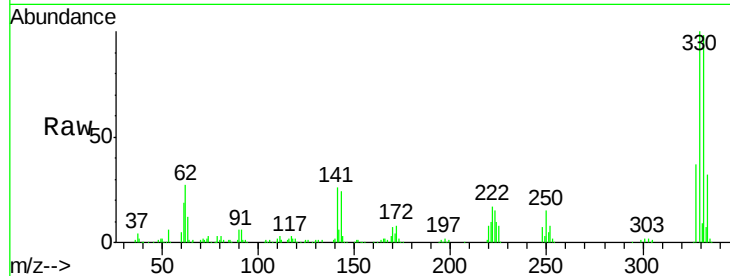




#66  
 4-Bromophenyl-phenylether  
 Concen: 5.49 ng  
 RT: 16.75 min Scan# 2291  
 Delta R.T. -0.47 min  
 Lab File: BG032719.D  
 Acq: 15 Feb 2018 18:32

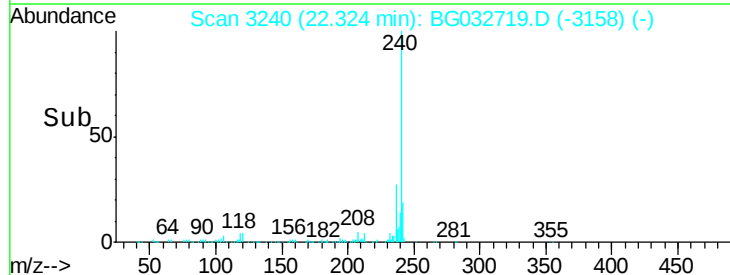
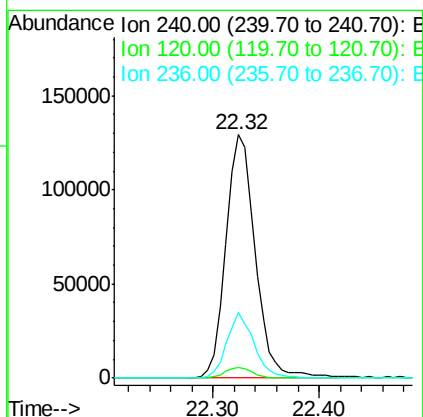
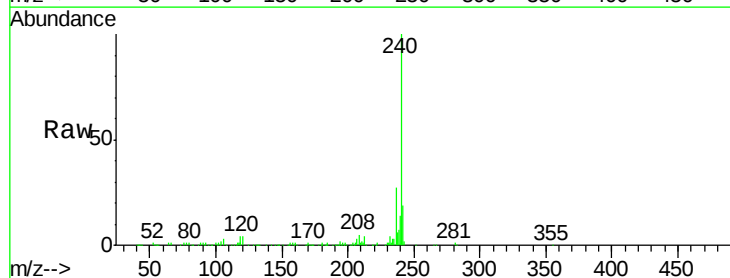
Instrument :  
 BNA\_G  
 ClientSampleId :

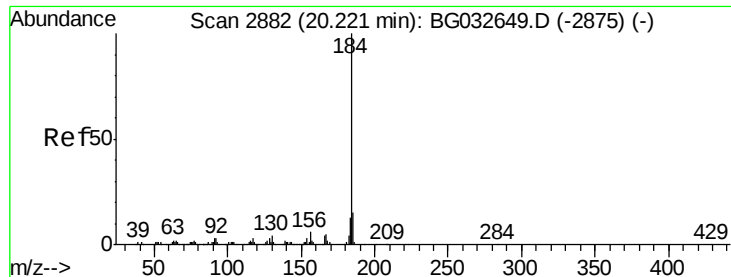
| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 210.5 | 77.1  | 115.7# |
| 141     | 369.7 | 50.8  | 76.2#  |



#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 22.32 min Scan# 3240  
 Delta R.T. -0.05 min  
 Lab File: BG032719.D  
 Acq: 15 Feb 2018 18:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 4.3   | 6.8   | 10.2# |
| 236     | 26.9  | 20.9  | 31.3  |





#76

Benzidine

Concen: 2.35 ng

RT: 20.56 min Scan# 2939

Delta R.T. 0.33 min

Lab File: BG032719.D

Acq: 15 Feb 2018 18:32

Instrument :

BNA\_G

ClientSampleId :

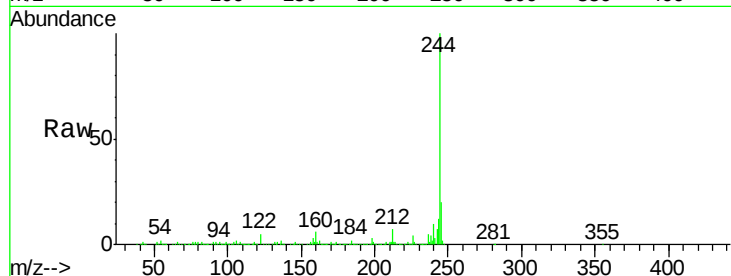
Tot Ion:184 Resp: 13786

Ion Ratio Lower Upper

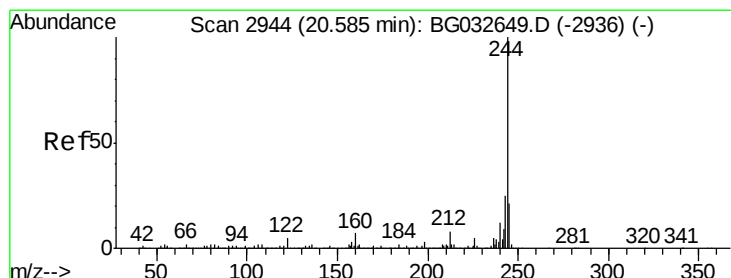
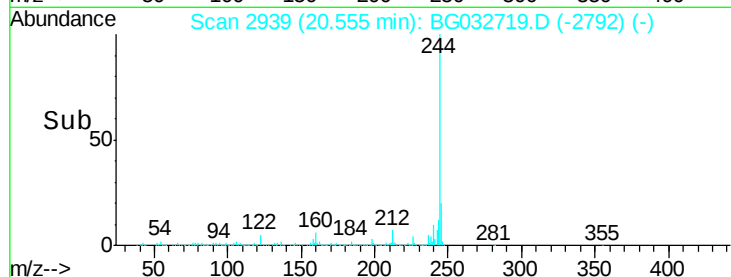
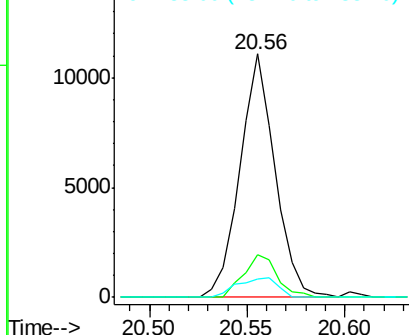
184 100

185 17.6 11.1 16.7#

183 7.6 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: 88.33 ng

RT: 20.56 min Scan# 2939

Delta R.T. -0.03 min

Lab File: BG032719.D

Acq: 15 Feb 2018 18:32

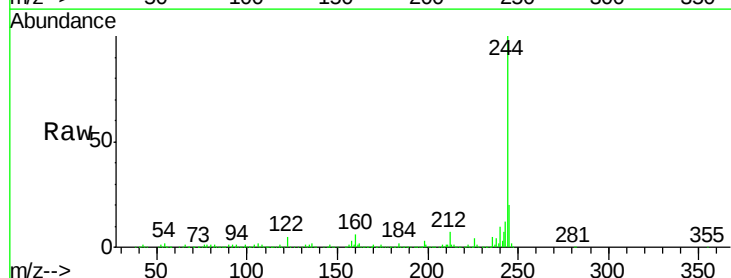
Tgt Ion:244 Resp: 964877

Ion Ratio Lower Upper

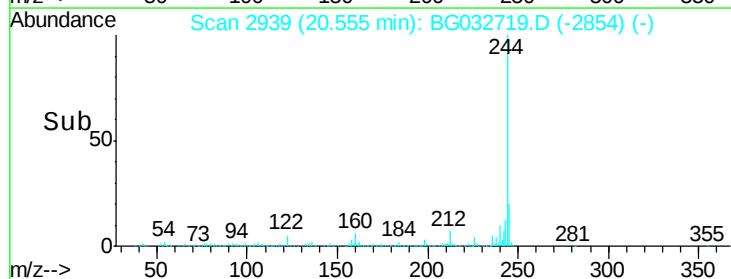
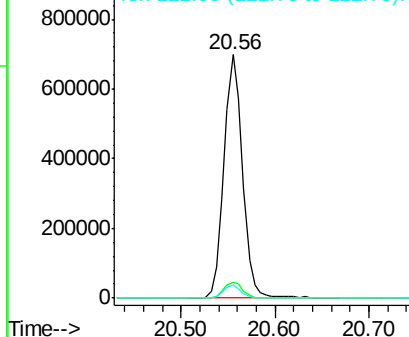
244 100

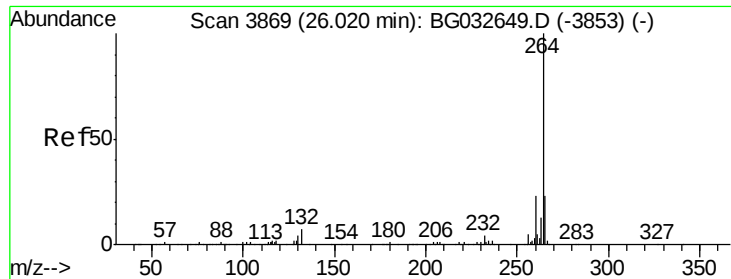
212 6.7 5.8 8.8

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

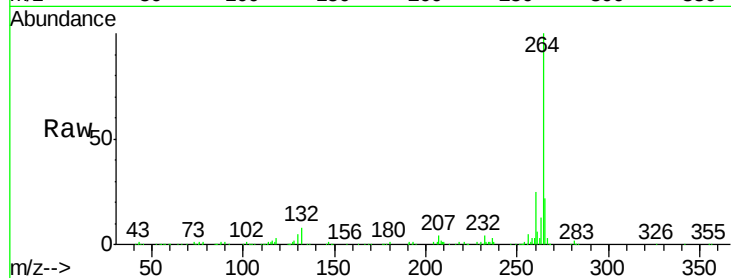




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 25.94 min Scan# 3855  
Delta R.T. -0.08 min  
Lab File: BG032719.D  
Acq: 15 Feb 2018 18:32

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.0  | 17.4  | 26.0  |
| 265     | 22.3  | 17.7  | 26.5  |



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

