

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG071619\  
 Data File : BG041670.D  
 Acq On : 16 Jul 2019 16:21  
 Operator : HP/JU  
 Sample : K3620-08  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jul 17 01:39:08 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG071519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 15 16:16:21 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.05  | 152  | 102416   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.85 | 136  | 427324   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.67 | 164  | 268452   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.41 | 188  | 658341   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.65 | 240  | 642335   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 24.85 | 264  | 728263   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.61  | 112  | 716264   | 114.33 | ng    | 0.00     |
| 7) Phenol-d6                | 7.20  | 99   | 909120   | 107.89 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.20  | 82   | 669355   | 95.26  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.15 | 330  | 437504   | 144.61 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.30 | 172  | 1561226  | 90.06  | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.01 | 244  | 2393864  | 87.09  | ng    | 0.00     |

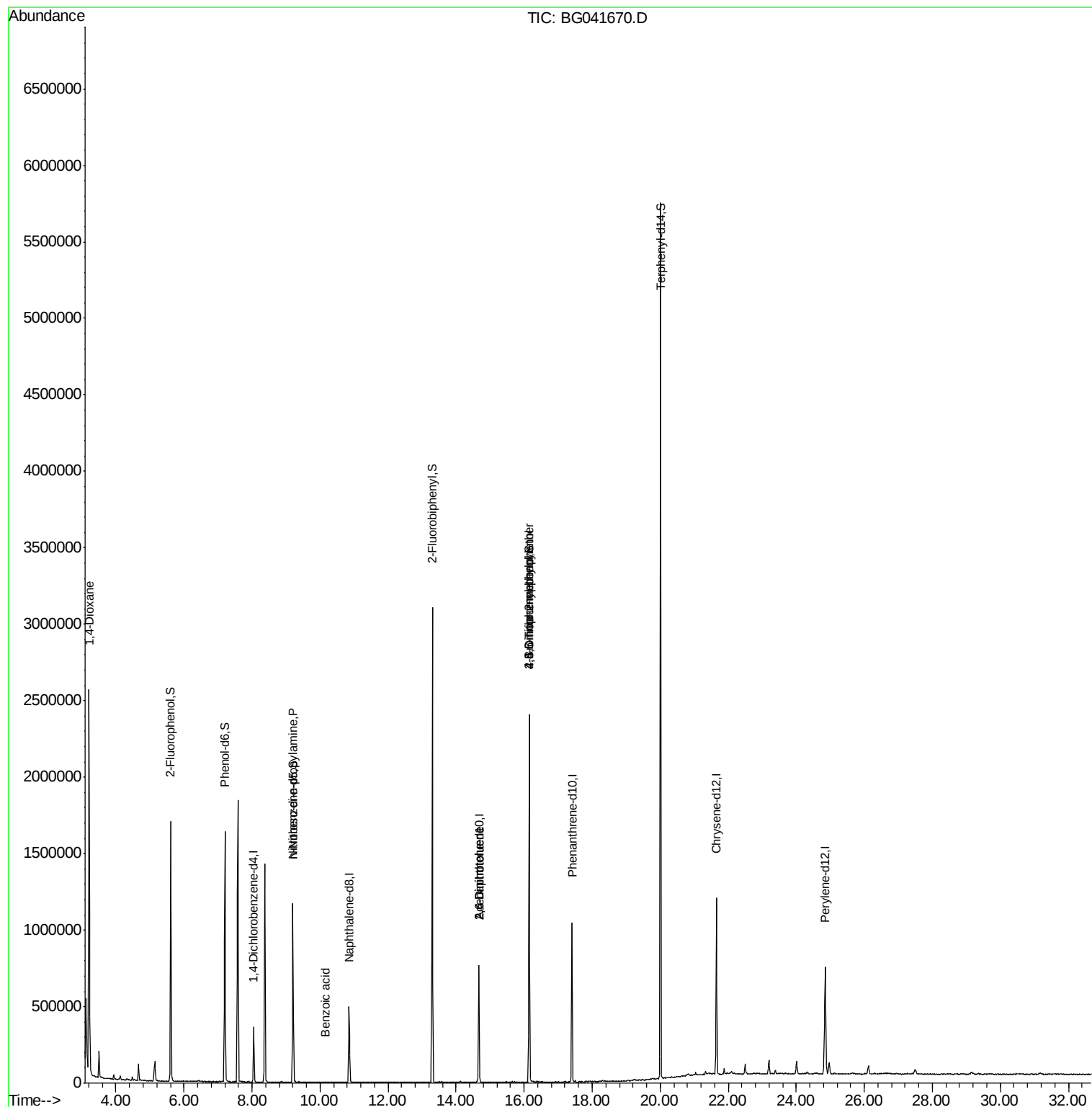
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 2) 1,4-Dioxane                 | 3.22  | 88   | 25426    | 8.545     | ng    | # 1    |
| 9) Benzaldehyde                | 7.20  | 77   | 1883     | Below Cal |       | # 15   |
| 19) n-Nitroso-di-n-propylamine | 9.20  | 70   | 92294    | 14.985    | ng    | # 70   |
| 32) Benzoic acid               | 10.17 | 122  | 65       | 6.024     | ng    | # 1    |
| 51) 2,6-Dinitrotoluene         | 14.67 | 165  | 34076    | 7.620     | ng    | # 28   |
| 57) 2,4-Dinitrotoluene         | 14.67 | 165  | 34076    | 5.764     | ng    | # 30   |
| 65) 4,6-Dinitro-2-methylphenol | 16.15 | 198  | 1271     | 7.024     | ng    | # 1    |
| 67) 4-Bromophenyl-phenylether  | 16.15 | 248  | 34790    | 4.441     | ng    | # 1    |

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

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG071519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jul 15 16:16:21 2019  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.05 min Scan# 845

Delta R.T. -0.00 min

Lab File: BG041670.D

Acq: 16 Jul 2019 16:21

Instrument :

BNA\_G

ClientSampleId :

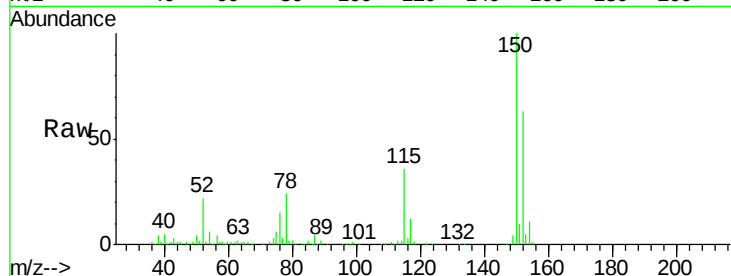
Tot Ion:152 Resp: 102416

Ion Ratio Lower Upper

152 100

150 158.5 126.9 190.3

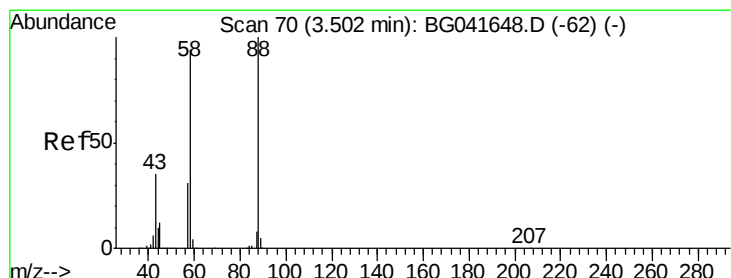
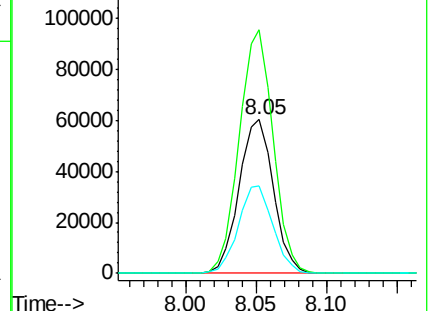
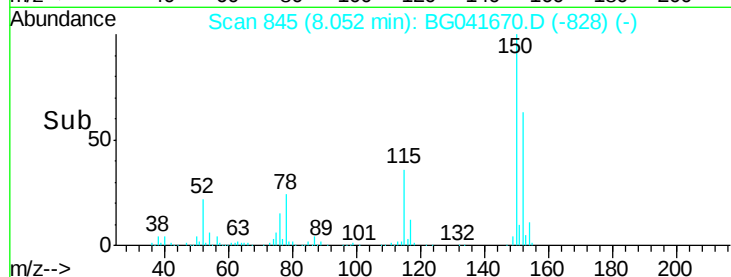
115 57.1 45.0 67.6



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: 8.545 ng

RT: 3.22 min Scan# 22

Delta R.T. -0.28 min

Lab File: BG041670.D

Acq: 16 Jul 2019 16:21

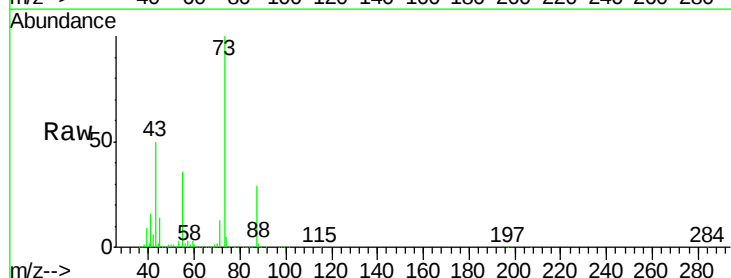
Tgt Ion: 88 Resp: 25426

Ion Ratio Lower Upper

88 100

58 34.4 76.2 114.2#

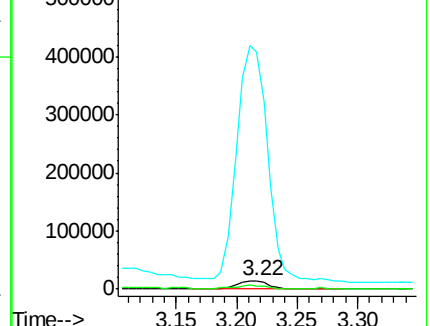
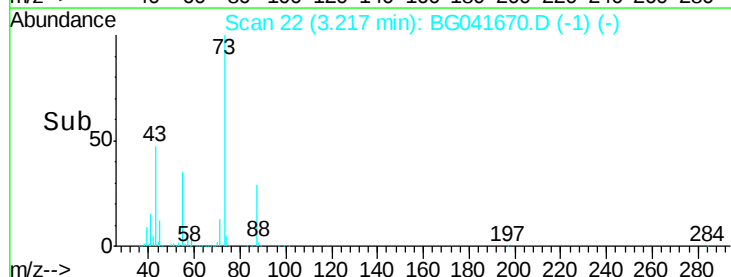
43 2923.1 27.2 40.8#

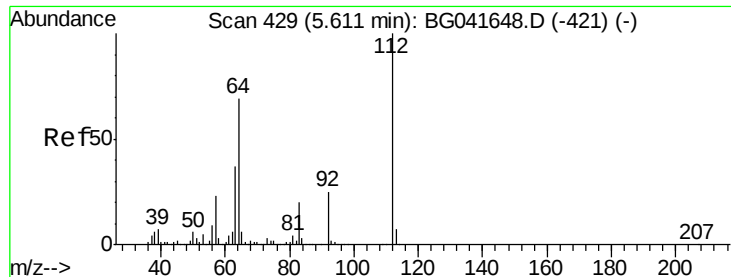


Abundance Ion 88.00 (87.70 to 88.70): BGC

Ion 58.00 (57.70 to 58.70): BGC

Ion 43.00 (42.70 to 43.70): BGC





#5

2-Fluorophenol

Concen: 114.329 ng

RT: 5.61 min Scan# 430

Delta R.T. 0.00 min

Lab File: BG041670.D

Acq: 16 Jul 2019 16:21

Instrument :

BNA\_G

ClientSampled :

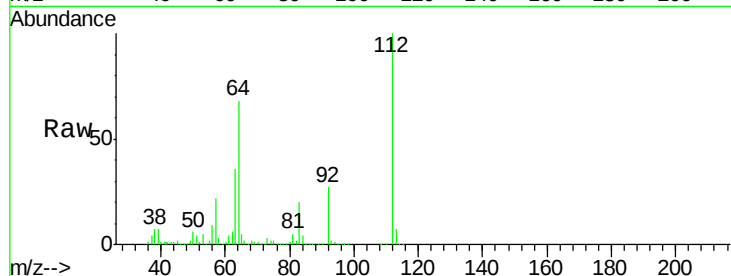
Tot Ion:112 Resp: 716264

Ion Ratio Lower Upper

112 100

64 68.5 55.4 83.2

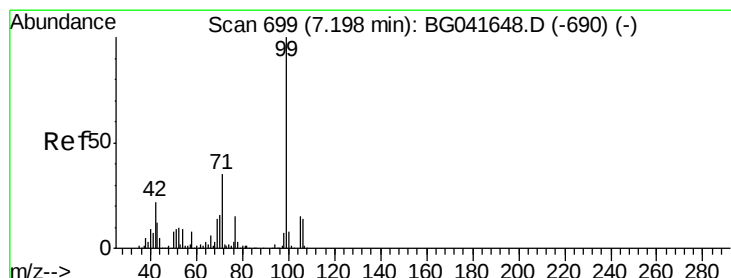
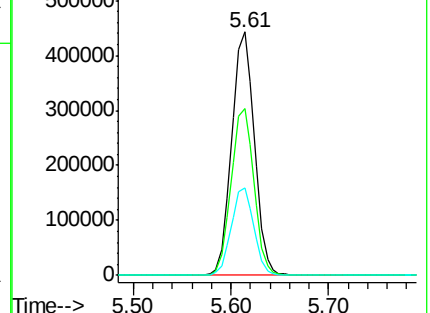
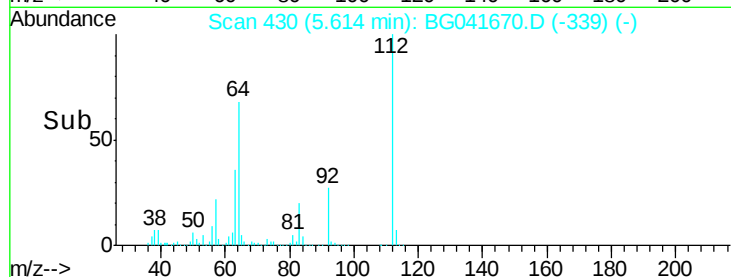
63 35.8 29.1 43.7



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: 107.887 ng

RT: 7.20 min Scan# 700

Delta R.T. -0.00 min

Lab File: BG041670.D

Acq: 16 Jul 2019 16:21

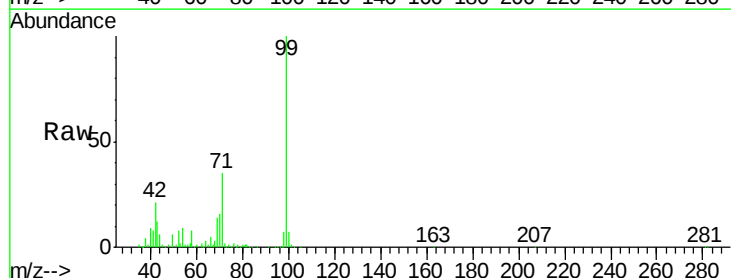
Tgt Ion: 99 Resp: 909120

Ion Ratio Lower Upper

99 100

42 21.4 17.6 26.4

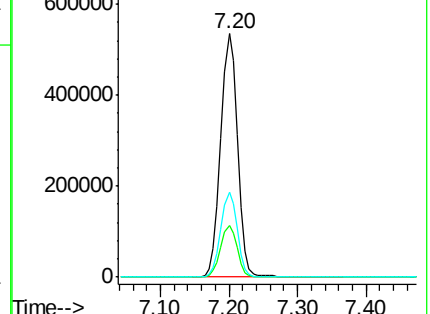
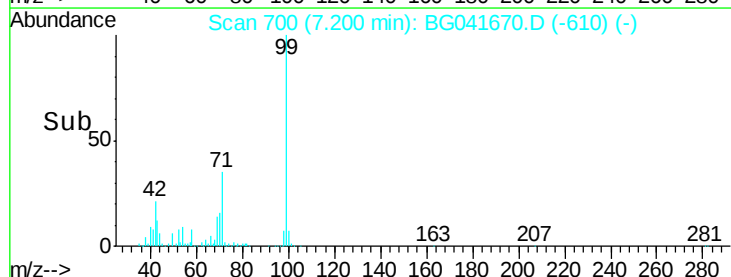
71 35.0 27.8 41.6

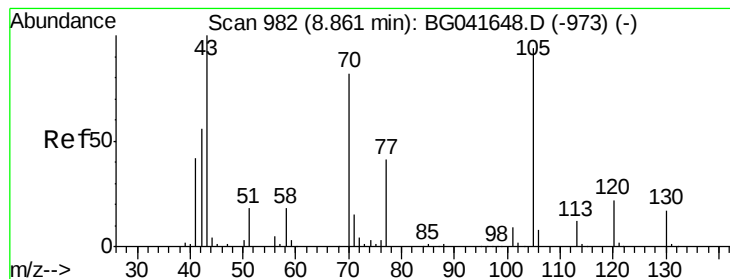


Abundance Ion 99.00 (98.70 to 99.70): BGC

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: 14.985 ng

RT: 9.20 min Scan# 1041

Delta R.T. 0.34 min

Lab File: BG041670.D

Acq: 16 Jul 2019 16:21

Instrument :

BNA\_G

ClientSampleId :

Tot Ion: 70 Resp: 92294

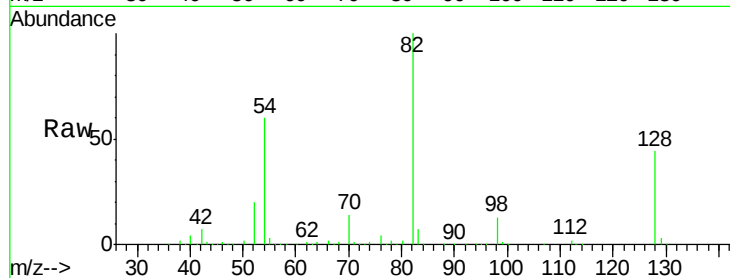
Ion Ratio Lower Upper

70 100

42 48.1 55.8 83.6#

101 0.0 8.1 12.1#

130 2.3 17.3 25.9#

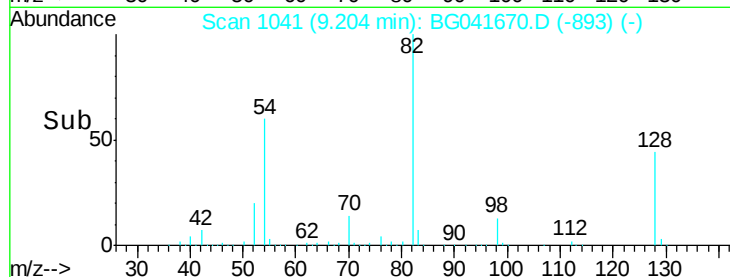


Abundance Ion 70.00 (69.70 to 70.70): BGC

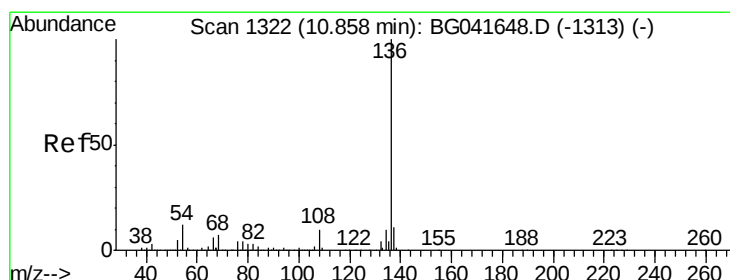
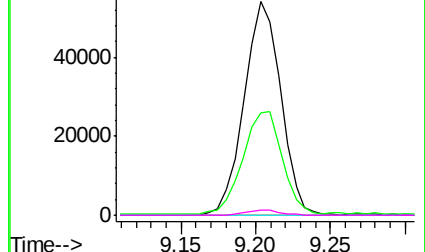
Ion 42.00 (41.70 to 42.70): BGC

Ion 101.00 (100.70 to 101.70): BGC

Ion 130.00 (129.70 to 130.70): BGC



Time-->



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.85 min Scan# 1322

Delta R.T. -0.00 min

Lab File: BG041670.D

Acq: 16 Jul 2019 16:21

Tgt Ion: 136 Resp: 427324

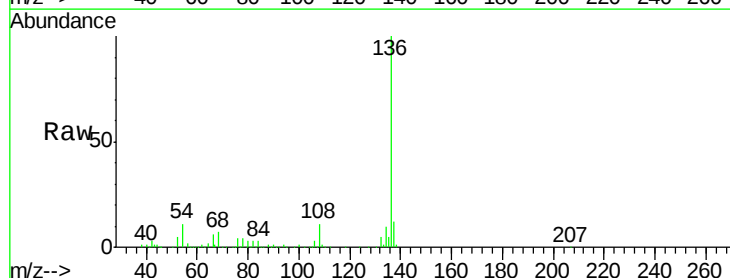
Ion Ratio Lower Upper

136 100

137 12.0 9.2 13.8

54 11.1 8.7 13.1

68 6.9 5.5 8.3

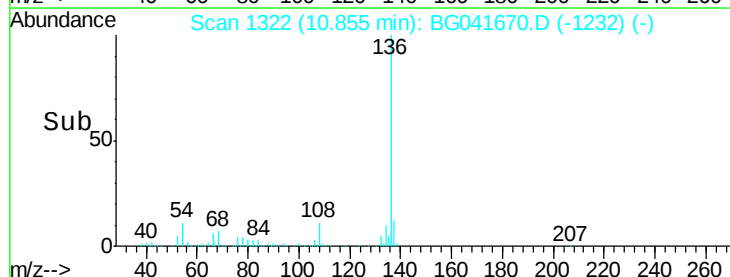


Abundance Ion 136.00 (135.70 to 136.70): BGC

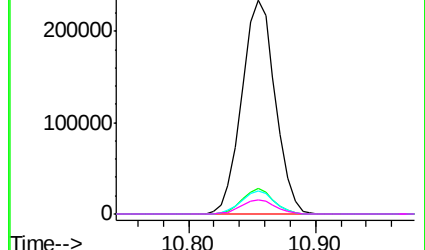
Ion 137.00 (136.70 to 137.70): BGC

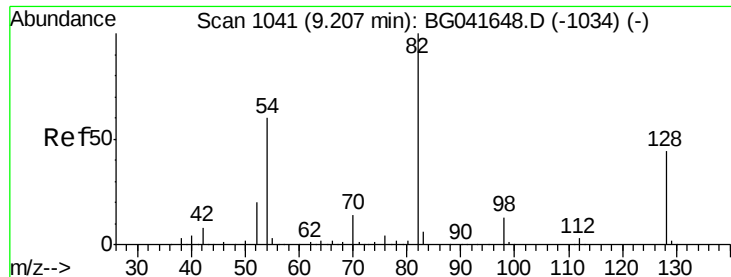
Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC



Time-->

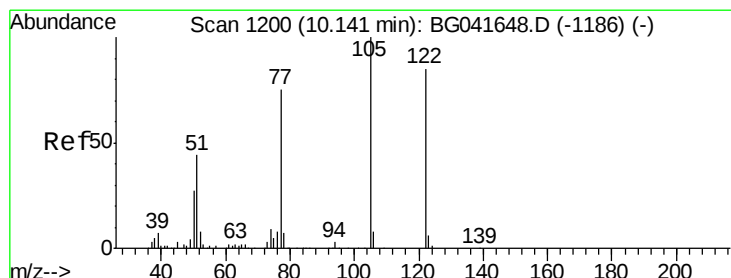
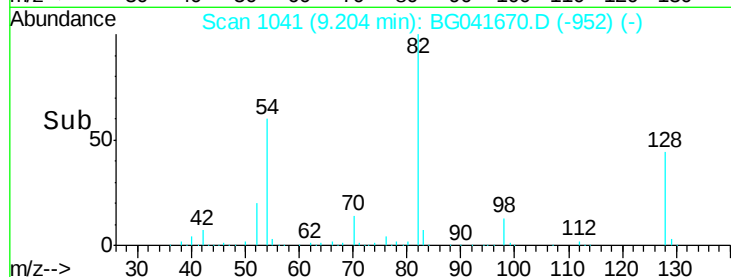
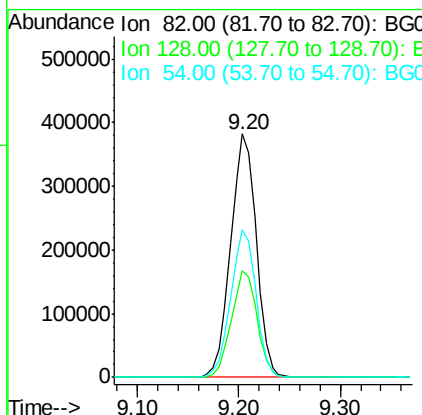
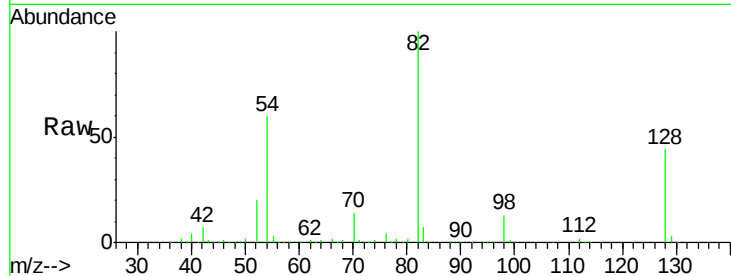




#23  
 Nitrobenzene-d5  
 Concen: 95.260 ng  
 RT: 9.20 min Scan# 1041  
 Delta R.T. -0.01 min  
 Lab File: BG041670.D  
 Acq: 16 Jul 2019 16:21

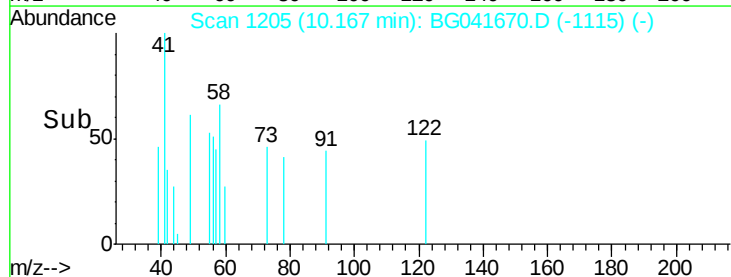
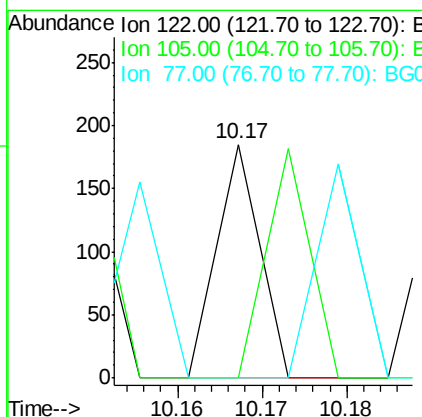
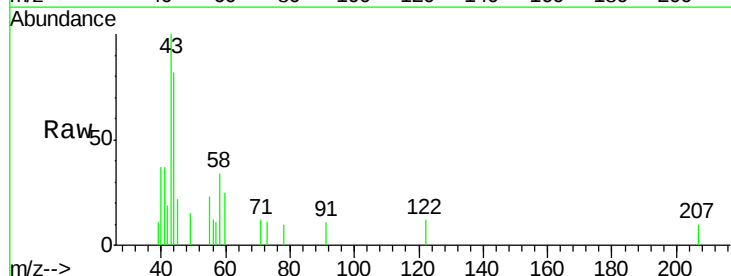
Instrument :  
 BNA\_G  
 ClientSampleId :

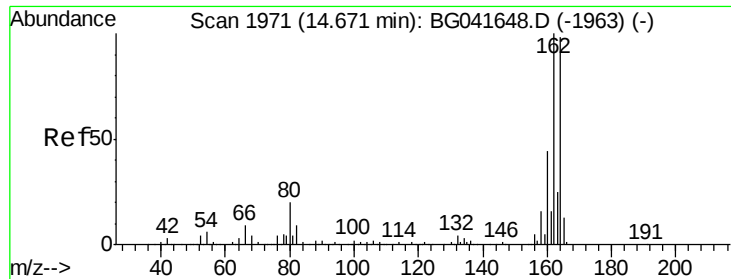
| Tot Ion   | 82    | Resp  | 669355 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 44.1  | 35.1  | 52.7   |
| 54        | 60.4  | 48.7  | 73.1   |



#32  
 Benzoic acid  
 Concen: 6.024 ng  
 RT: 10.17 min Scan# 1205  
 Delta R.T. -0.00 min  
 Lab File: BG041670.D  
 Acq: 16 Jul 2019 16:21

| Tgt Ion   | 122   | Resp  | 65     |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 122       | 100   |       |        |
| 105       | 0.0   | 101.5 | 141.5# |
| 77        | 0.0   | 73.0  | 113.0# |

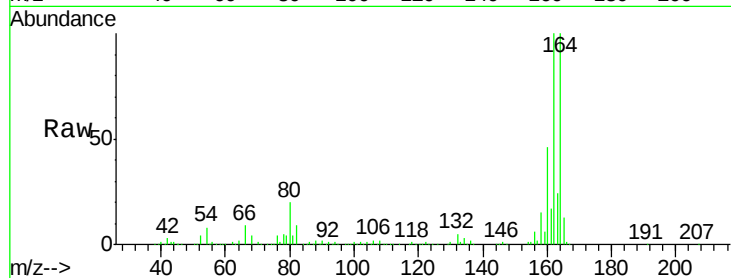




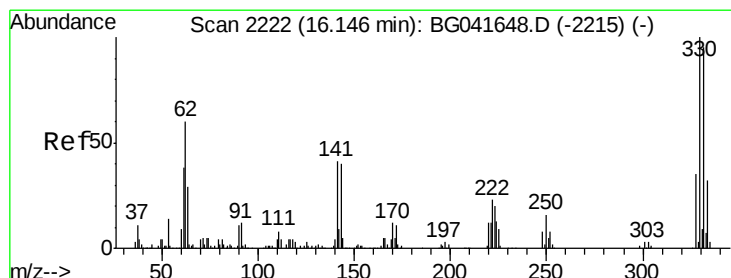
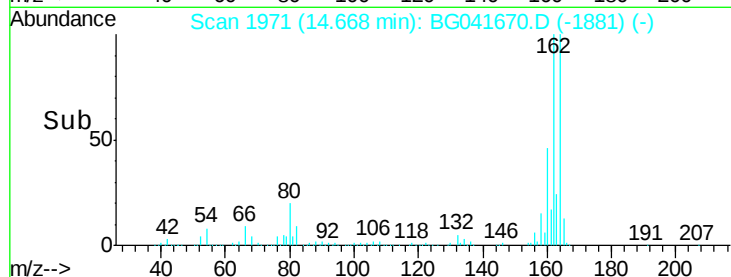
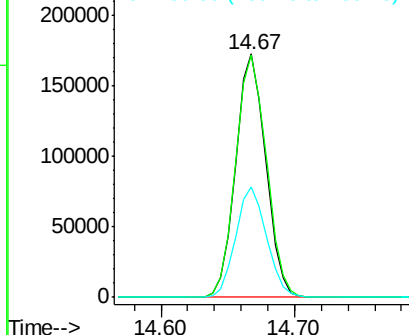
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.67 min Scan# 1971  
Delta R.T. -0.00 min  
Lab File: BG041670.D  
Acq: 16 Jul 2019 16:21

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:164 Resp: 268452  
Ion Ratio Lower Upper  
164 100  
162 99.5 79.6 119.4  
160 45.6 35.4 53.0

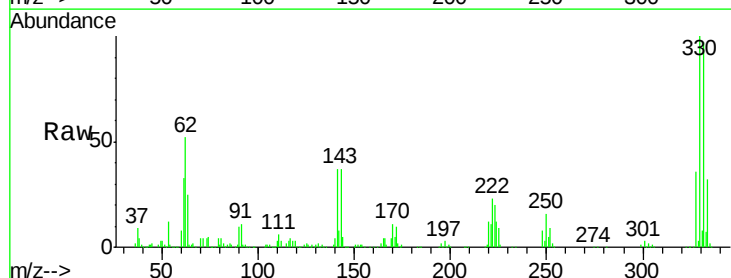


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

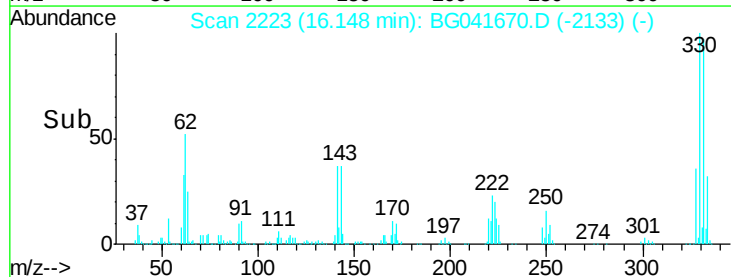
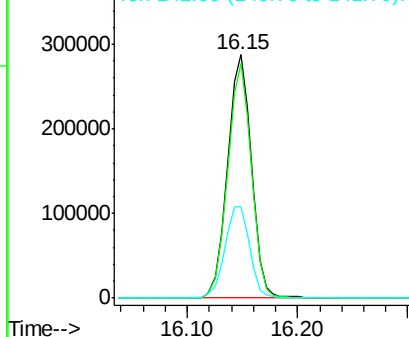


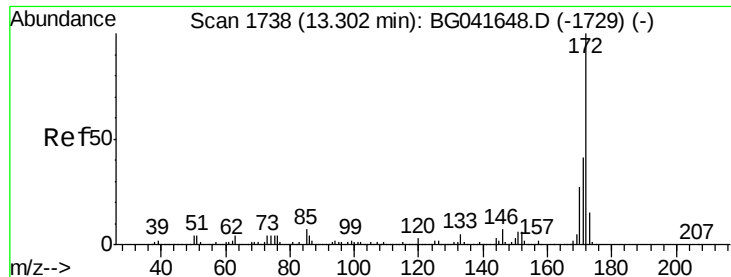
#42  
2,4,6-Tribromophenol  
Concen: 144.610 ng  
RT: 16.15 min Scan# 2223  
Delta R.T. -0.00 min  
Lab File: BG041670.D  
Acq: 16 Jul 2019 16:21

Tgt Ion:330 Resp: 437504  
Ion Ratio Lower Upper  
330 100  
332 95.7 77.4 116.0  
141 39.1 31.9 47.9



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

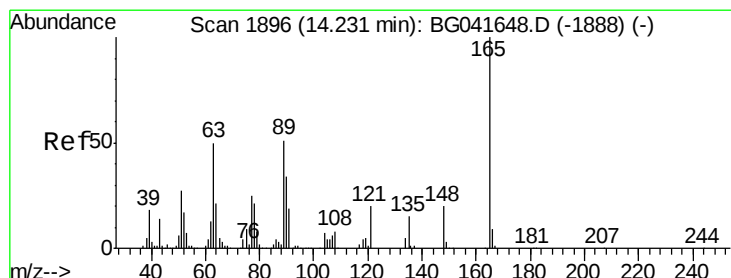
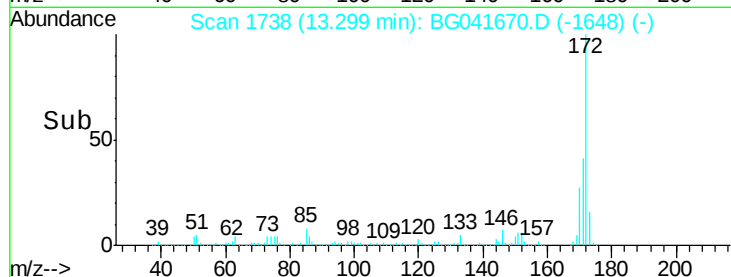
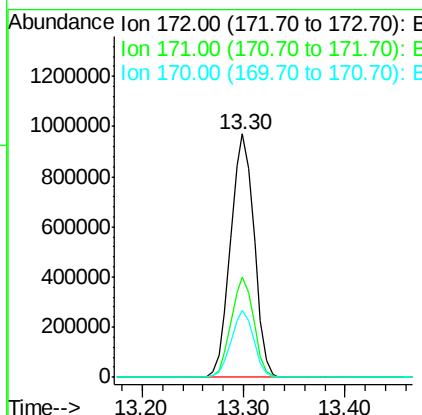
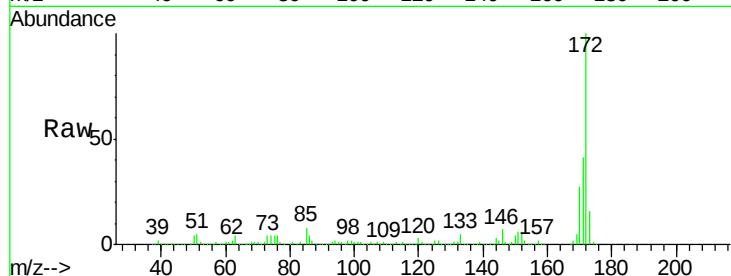




#45  
2-Fluorobiphenyl  
Concen: 90.055 ng  
RT: 13.30 min Scan# 1738  
Delta R.T. -0.00 min  
Lab File: BG041670.D  
Acq: 16 Jul 2019 16:21

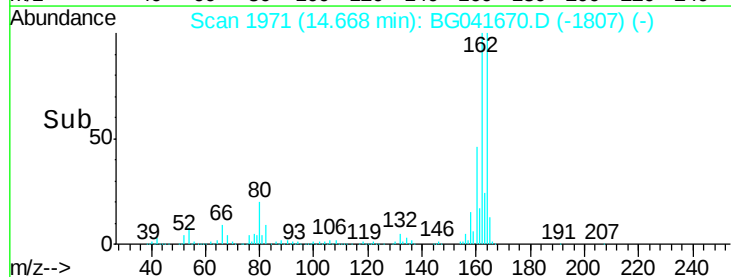
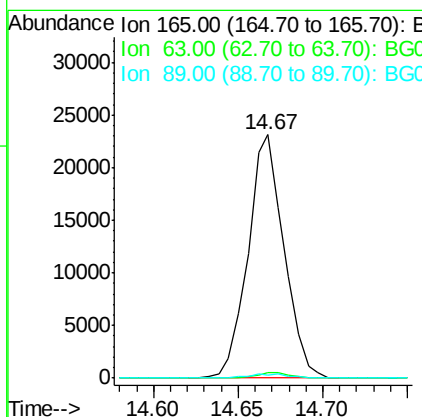
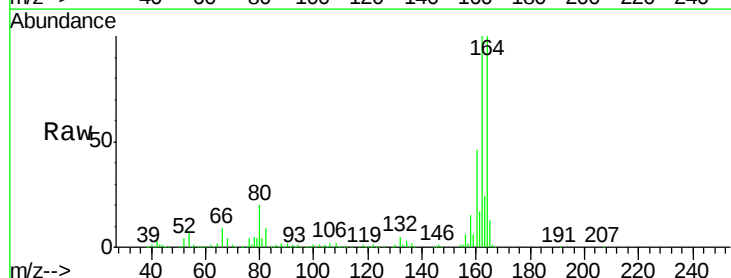
Instrument :  
BNA\_G  
ClientSampleId :

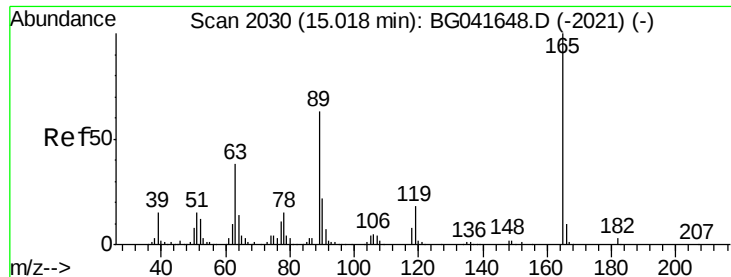
Tot Ion:172 Resp: 1561226  
Ion Ratio Lower Upper  
172 100  
171 41.1 35.0 52.4  
170 27.5 23.5 35.3



#51  
2,6-Dinitrotoluene  
Concen: 7.620 ng  
RT: 14.67 min Scan# 1971  
Delta R.T. 0.43 min  
Lab File: BG041670.D  
Acq: 16 Jul 2019 16:21

Tgt Ion:165 Resp: 34076  
Ion Ratio Lower Upper  
165 100  
63 2.4 42.4 63.6#  
89 1.4 42.1 63.1#

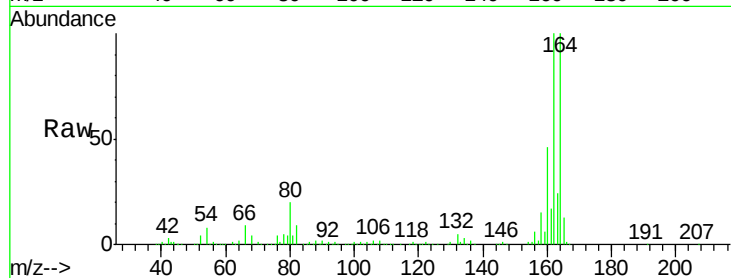




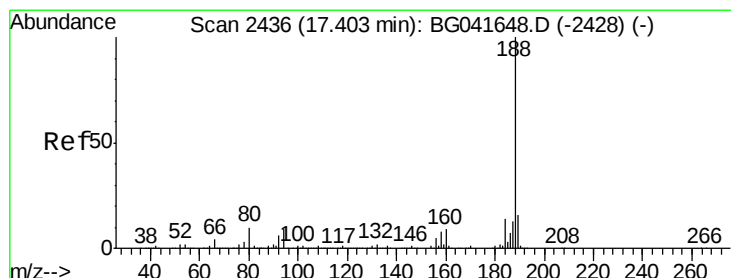
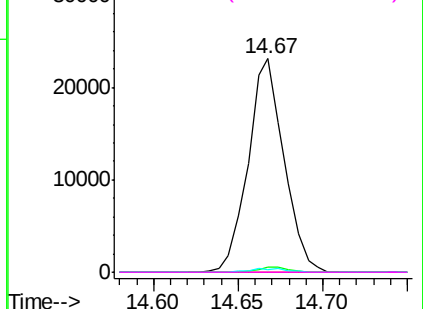
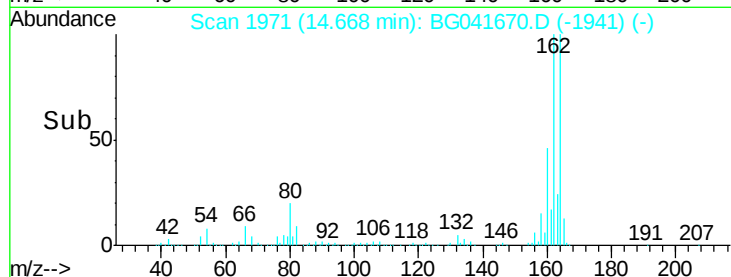
#57  
 2,4-Dinitrotoluene  
 Concen: 5.764 ng  
 RT: 14.67 min Scan# 1971  
 Delta R.T. -0.35 min  
 Lab File: BG041670.D  
 Acq: 16 Jul 2019 16:21

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:165 Resp: 34076  
 Ion Ratio Lower Upper  
 165 100  
 63 2.4 31.7 47.5#  
 89 1.4 50.2 75.4#  
 182 0.0 2.6 4.0#

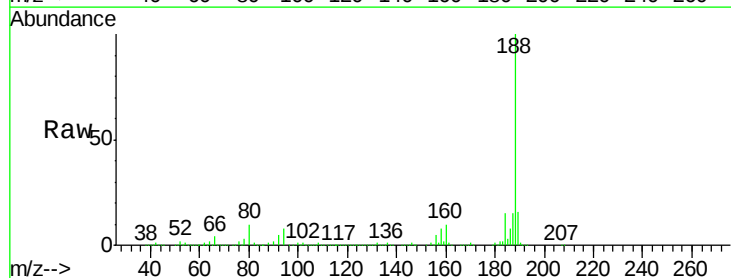


Abundance Ion 165.00 (164.70 to 165.70): E

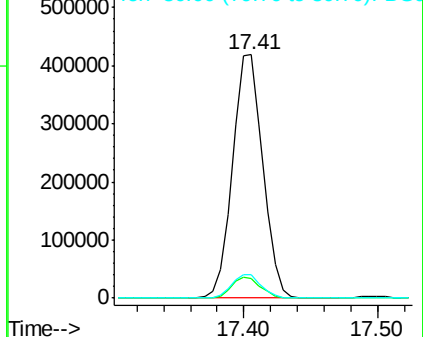
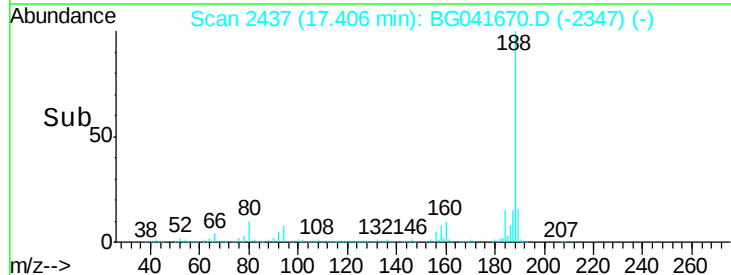


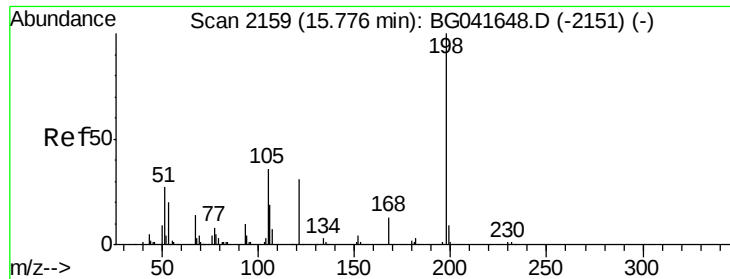
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.41 min Scan# 2437  
 Delta R.T. -0.00 min  
 Lab File: BG041670.D  
 Acq: 16 Jul 2019 16:21

Tgt Ion:188 Resp: 658341  
 Ion Ratio Lower Upper  
 188 100  
 94 8.1 6.9 10.3  
 80 9.7 8.0 12.0



Abundance Ion 188.00 (187.70 to 188.70): E





#65

4,6-Dinitro-2-methylphenol

Concen: 7.024 ng

RT: 16.15 min Scan# 2223

Delta R.T. 0.37 min

Lab File: BG041670.D

Acq: 16 Jul 2019 16:21

Instrument :

BNA\_G

ClientSampleId :

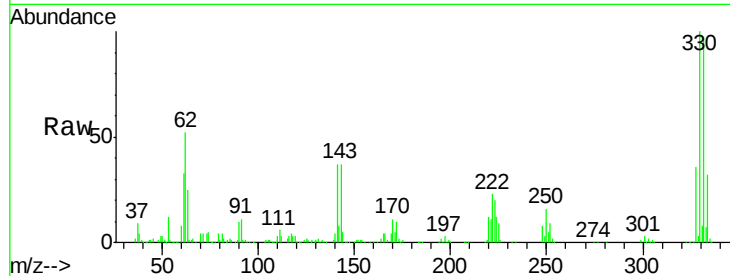
Tot Ion:198 Resp: 1271

Ion Ratio Lower Upper

198 100

51 163.6 22.3 62.3#

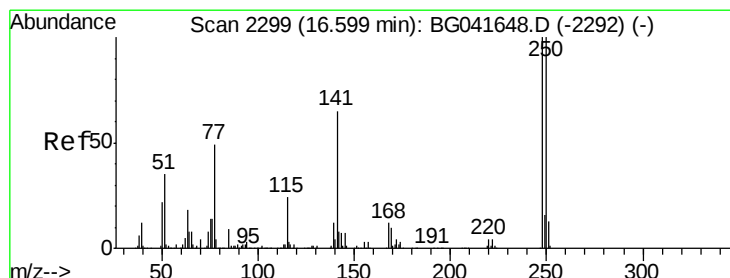
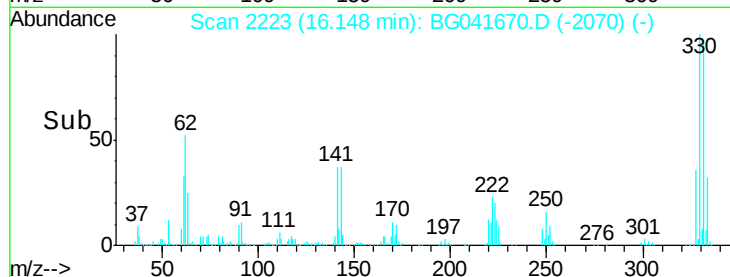
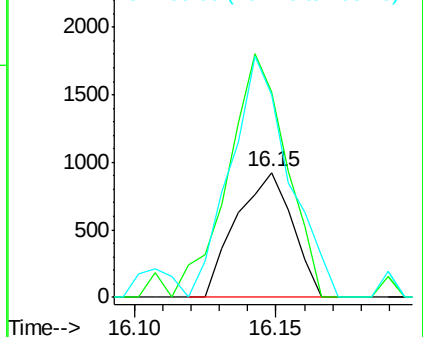
105 162.4 18.0 58.0#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BG0

Ion 105.00 (104.70 to 105.70): E



#67

4-Bromophenyl-phenylether

Concen: 4.441 ng

RT: 16.15 min Scan# 2223

Delta R.T. -0.45 min

Lab File: BG041670.D

Acq: 16 Jul 2019 16:21

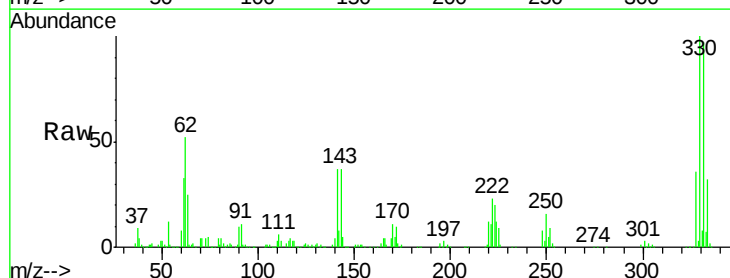
Tgt Ion:248 Resp: 34790

Ion Ratio Lower Upper

248 100

250 189.8 78.1 117.1#

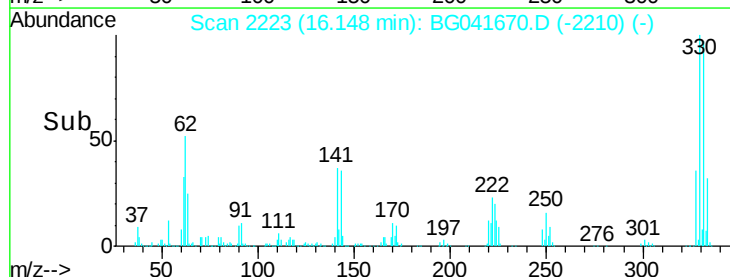
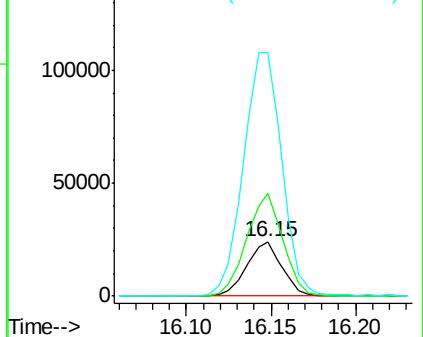
141 448.2 49.6 74.4#

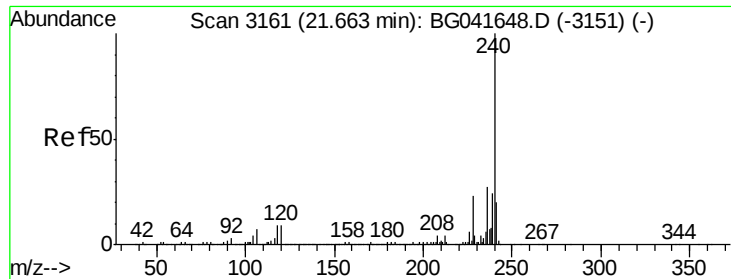


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

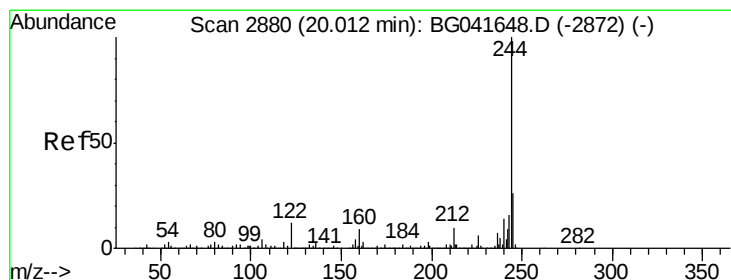
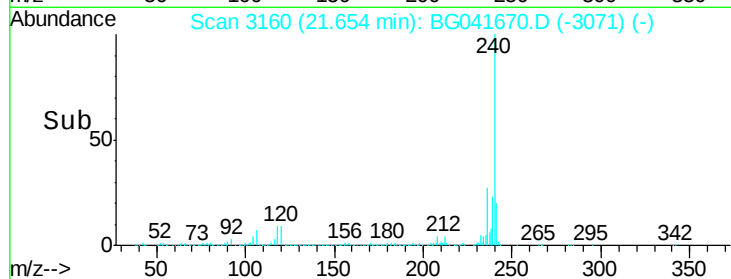
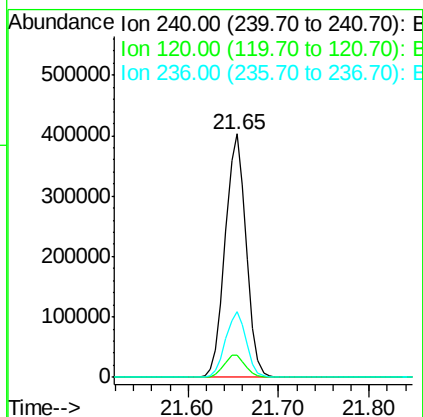
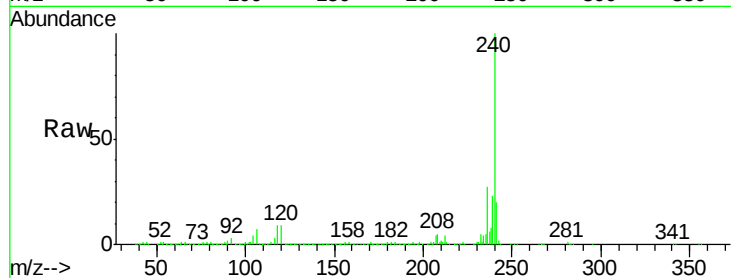




#76  
 Chrvsene-d12  
 Concen: 20.000 ng  
 RT: 21.65 min Scan# 3160  
 Delta R.T. -0.01 min  
 Lab File: BG041670.D  
 Acq: 16 Jul 2019 16:21

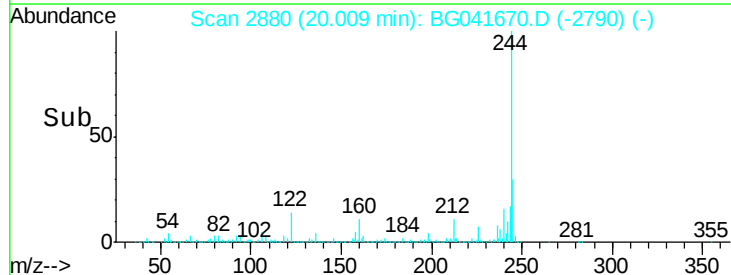
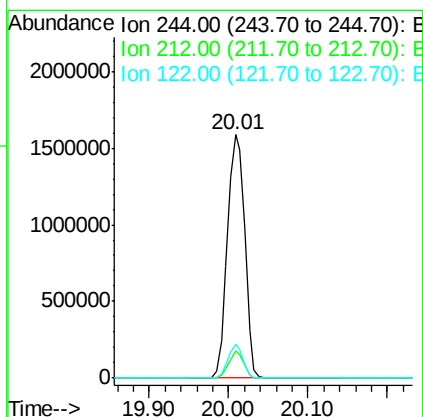
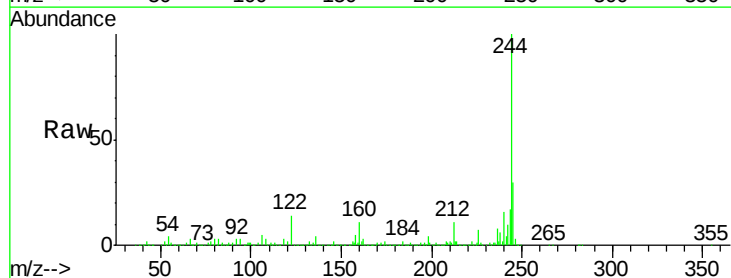
Instrument :  
 BNA\_G  
 ClientSampleId :

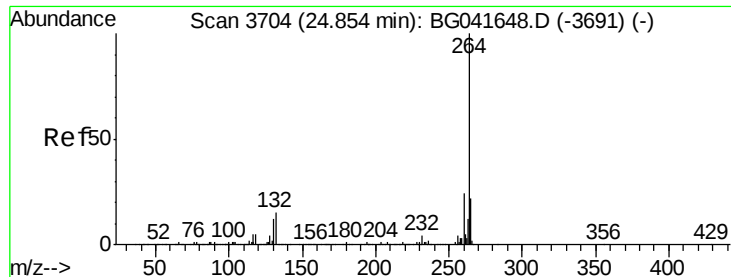
Tot Ion:240 Resp: 642335  
 Ion Ratio Lower Upper  
 240 100  
 120 9.2 8.0 12.0  
 236 27.1 22.6 33.8



#79  
 Terphenyl-d14  
 Concen: 87.091 ng  
 RT: 20.01 min Scan# 2880  
 Delta R.T. -0.00 min  
 Lab File: BG041670.D  
 Acq: 16 Jul 2019 16:21

Tgt Ion:244 Resp: 2393864  
 Ion Ratio Lower Upper  
 244 100  
 212 11.0 9.7 14.5  
 122 14.0 12.5 18.7

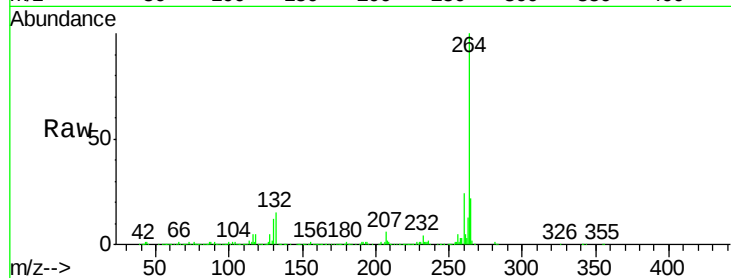




#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 24.85 min Scan# 3704  
 Delta R.T. -0.01 min  
 Lab File: BG041670.D  
 Acq: 16 Jul 2019 16:21

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.9  | 19.5  | 29.3  |
| 265     | 22.3  | 18.0  | 27.0  |



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

