

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG071719\  
 Data File : BG041700.D  
 Acq On : 17 Jul 2019 22:55  
 Operator : HP/JU  
 Sample : K3835-09  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jul 18 07:12:00 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

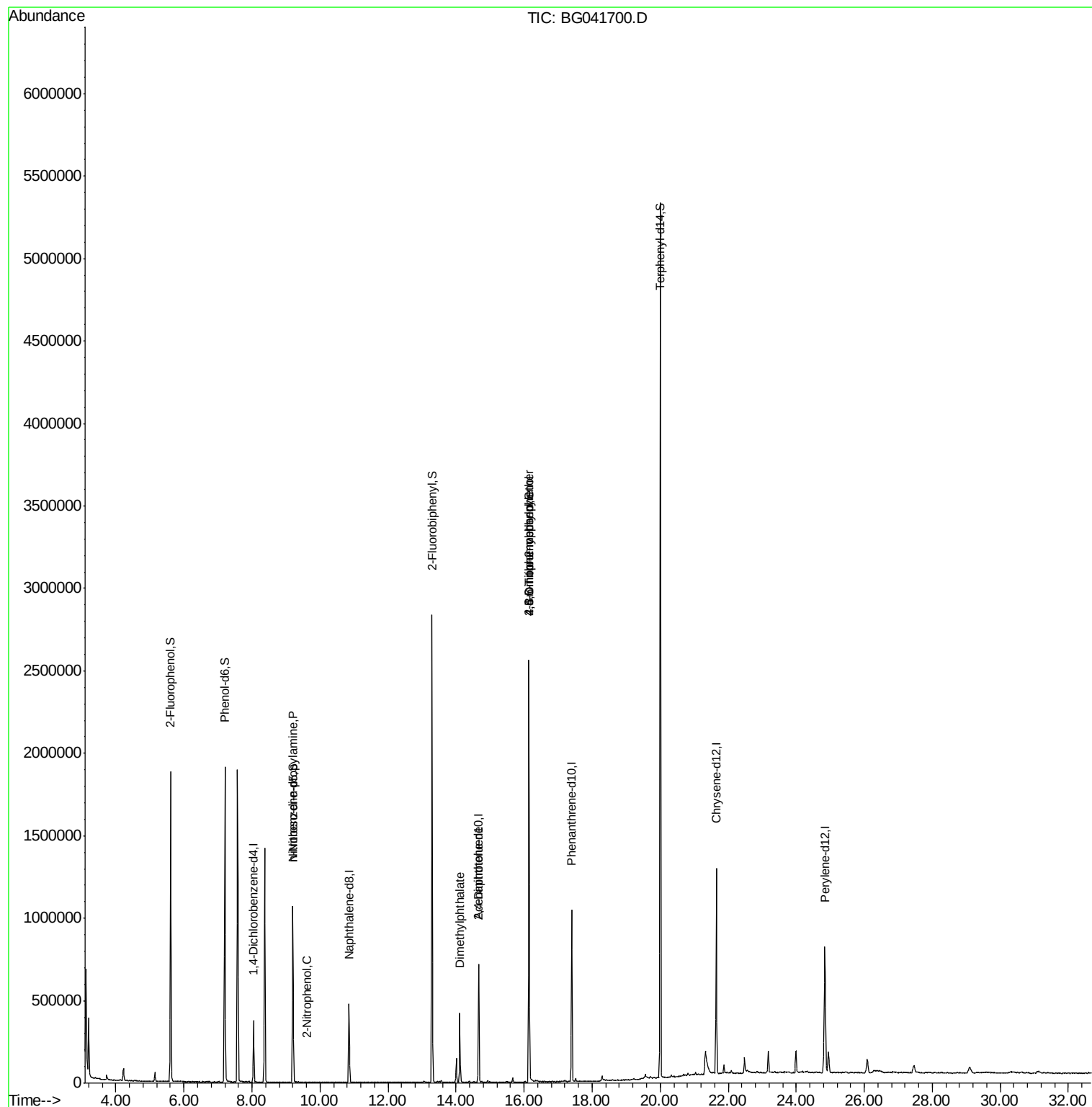
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.05  | 152  | 105206   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.85 | 136  | 420123   | 20.00     | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.66 | 164  | 253992   | 20.00     | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.40 | 188  | 661465   | 20.00     | ng    | 0.00     |
| 76) Chrysene-d12               | 21.65 | 240  | 699414   | 20.00     | ng    | -0.01    |
| 87) Perylene-d12               | 24.84 | 264  | 806101   | 20.00     | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.61  | 112  | 782444   | 121.58    | ng    | 0.00     |
| 7) Phenol-d6                   | 7.20  | 99   | 1084854  | 125.33    | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.20  | 82   | 654670   | 94.77     | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 16.14 | 330  | 459813   | 160.64    | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.29 | 172  | 1437750  | 87.65     | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.00 | 244  | 2299246  | 76.82     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 7.19  | 77   | 1881     | Below Cal | #     | 3        |
| 19) n-Nitroso-di-n-propylamine | 9.20  | 70   | 89845    | 14.201 ng | #     | 71       |
| 26) 2-Nitrophenol              | 9.62  | 139  | 61       | 4.669 ng  | #     | 34       |
| 50) Dimethylphthalate          | 14.11 | 163  | 294705   | 14.773 ng |       | 98       |
| 57) 2,4-Dinitrotoluene         | 14.66 | 165  | 32870    | 5.877 ng  | #     | 28       |
| 65) 4,6-Dinitro-2-methylphenol | 16.14 | 198  | 1397     | 7.057 ng  | #     | 1        |
| 67) 4-Bromophenyl-phenylether  | 16.14 | 248  | 35789    | 4.547 ng  | #     | 1        |
| 77) Benzidine                  | 20.00 | 184  | 42114    | Below Cal | #     | 92       |

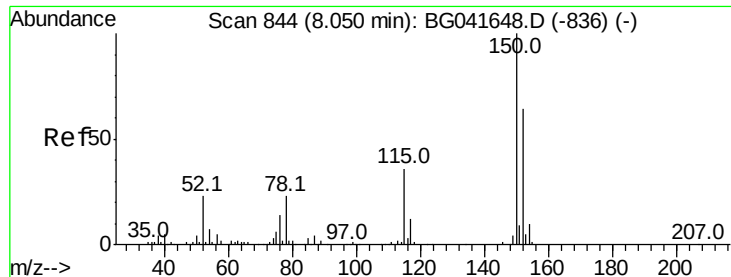
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG071719\  
Data File : BG041700.D  
Acq On : 17 Jul 2019 22:55  
Operator : HP/JU  
Sample : K3835-09  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Jul 18 07:12:00 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



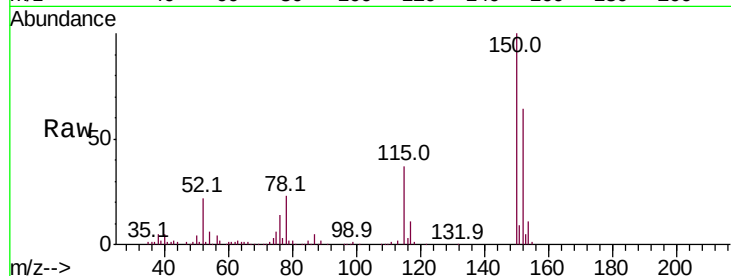


#1

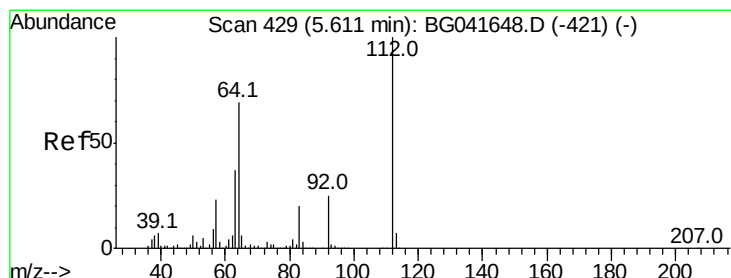
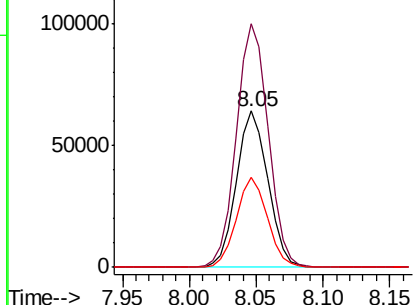
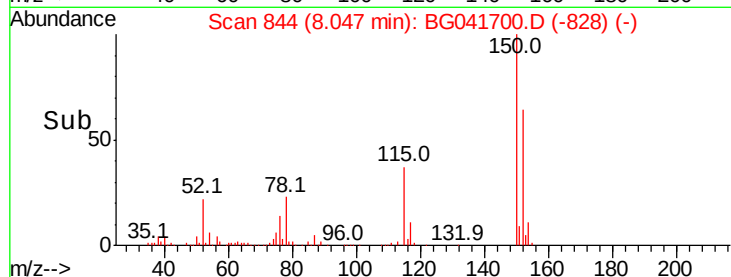
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.05 min Scan# 844  
Delta R.T. -0.01 min  
Lab File: BG041700.D  
Acq: 17 Jul 2019 22:55

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.0 | 126.9 | 190.3 |
| 115     | 57.4  | 45.0  | 67.6  |



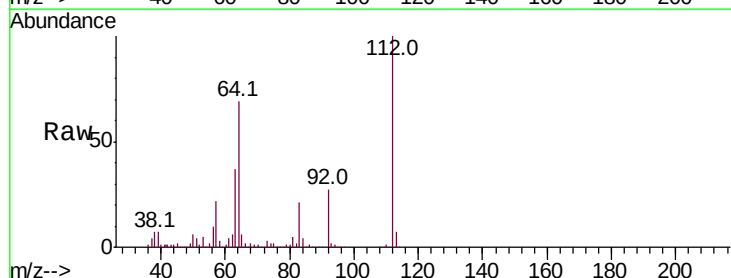
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



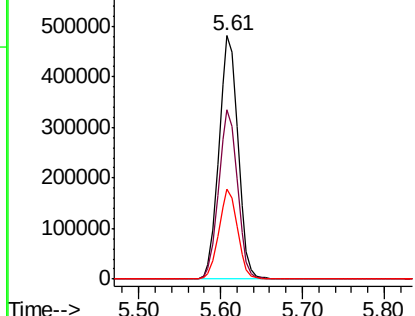
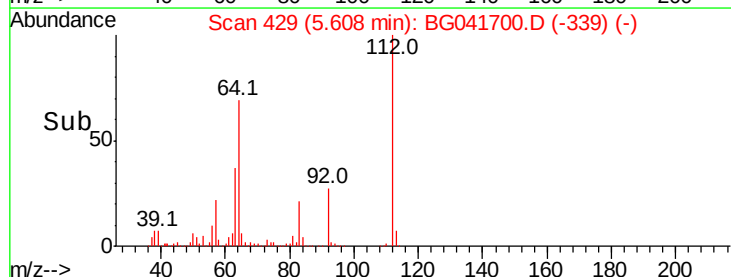
#5

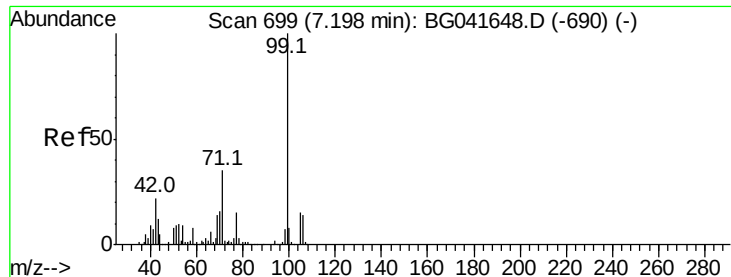
2-Fluorophenol  
Concen: 121.580 ng  
RT: 5.61 min Scan# 429  
Delta R.T. -0.00 min  
Lab File: BG041700.D  
Acq: 17 Jul 2019 22:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 69.4  | 55.4  | 83.2  |
| 63      | 36.9  | 29.1  | 43.7  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BG0  
Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 125.327 ng

RT: 7.20 min Scan# 700

Delta R.T. -0.00 min

Lab File: BG041700.D

Acq: 17 Jul 2019 22:55

Instrument :

BNA\_G

ClientSampleId :

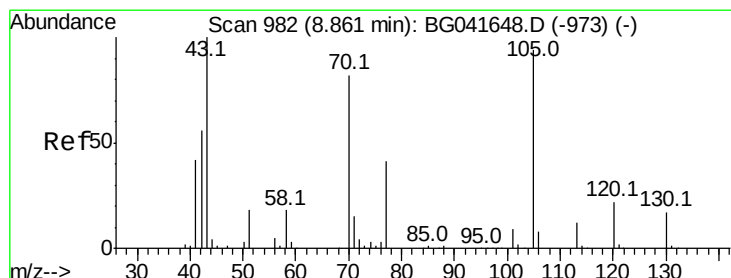
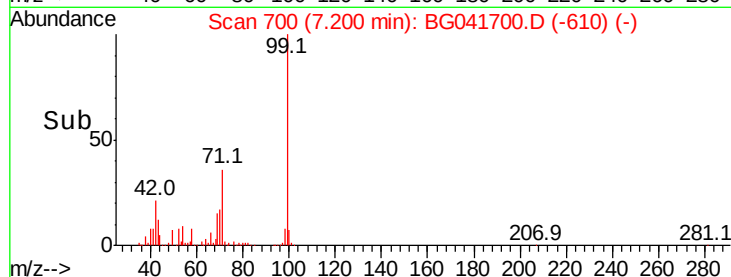
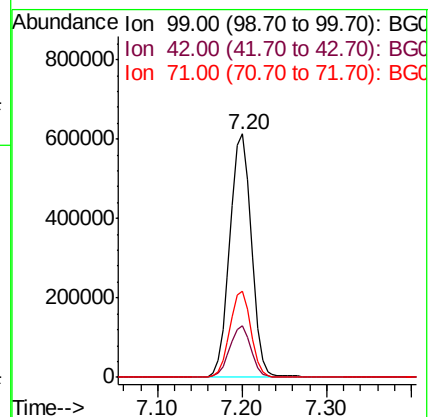
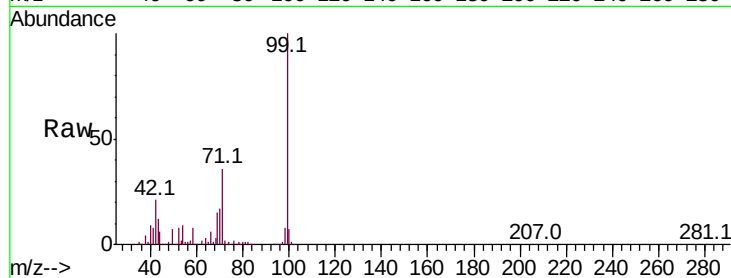
Tot Ion: 99 Resp: 1084854

Ion Ratio Lower Upper

99 100

42 21.4 17.6 26.4

71 35.6 27.8 41.6



#19

n-Nitroso-di-n-propylamine

Concen: 14.201 ng

RT: 9.20 min Scan# 1041

Delta R.T. 0.34 min

Lab File: BG041700.D

Acq: 17 Jul 2019 22:55

Tgt Ion: 70 Resp: 89845

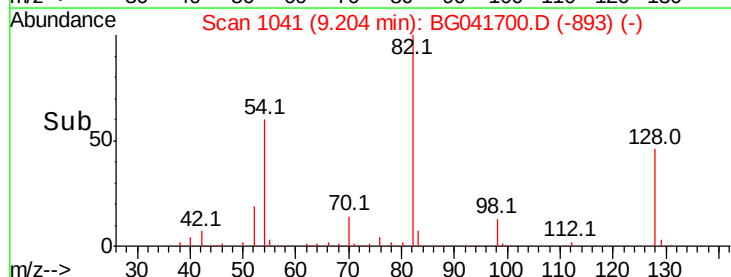
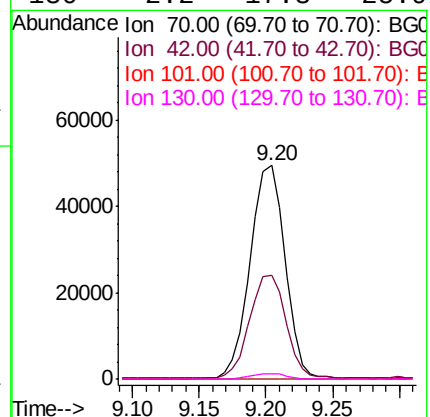
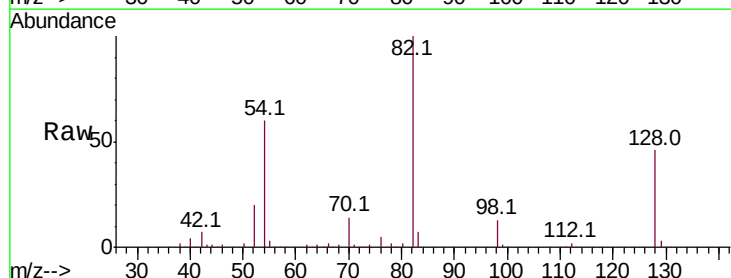
Ion Ratio Lower Upper

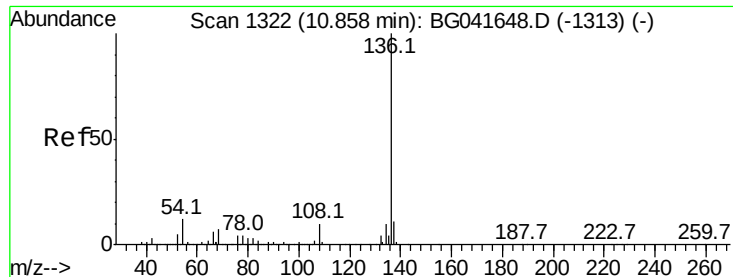
70 100

42 48.8 55.8 83.6#

101 0.0 8.1 12.1#

130 2.2 17.3 25.9#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.85 min Scan# 1321

Delta R.T. -0.01 min

Lab File: BG041700.D

Acq: 17 Jul 2019 22:55

Instrument :

BNA\_G

ClientSampleId :

Tot Ion:136 Resp: 420123

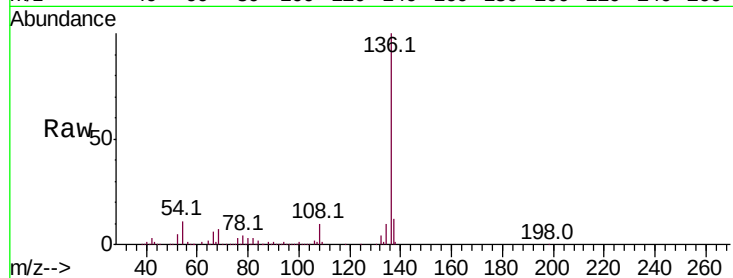
Ion Ratio Lower Upper

136 100

137 11.7 9.2 13.8

54 10.8 8.7 13.1

68 6.7 5.5 8.3

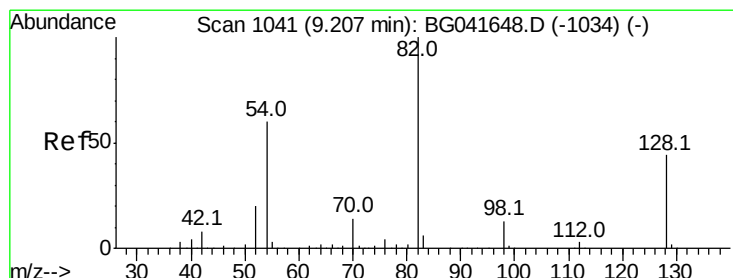
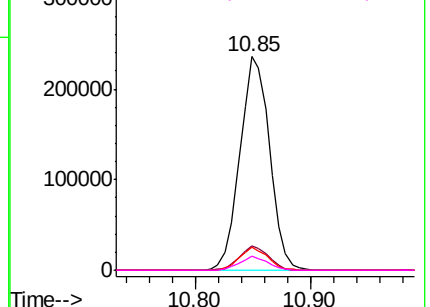
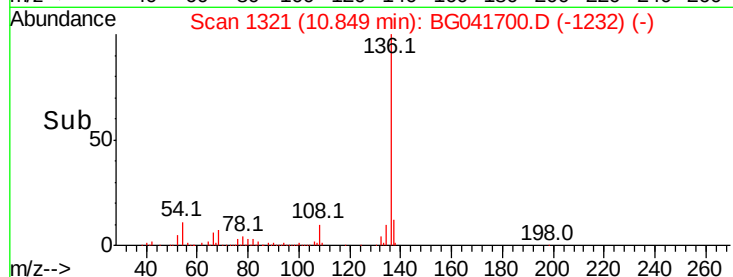


Abundance Ion 136.00 (135.70 to 136.70): E

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: 94.767 ng

RT: 9.20 min Scan# 1040

Delta R.T. -0.01 min

Lab File: BG041700.D

Acq: 17 Jul 2019 22:55

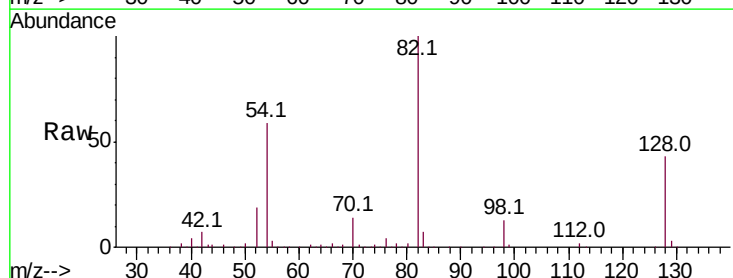
Tgt Ion: 82 Resp: 654670

Ion Ratio Lower Upper

82 100

128 43.3 35.1 52.7

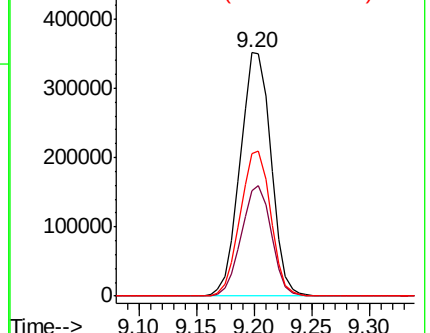
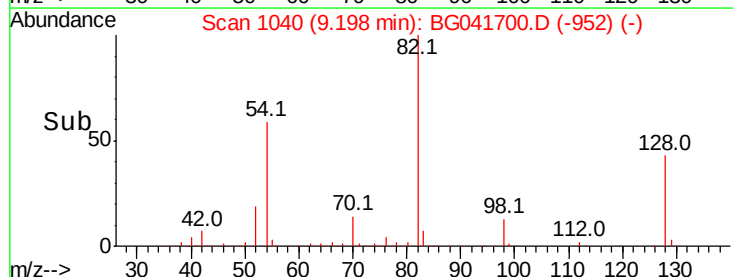
54 58.6 48.7 73.1

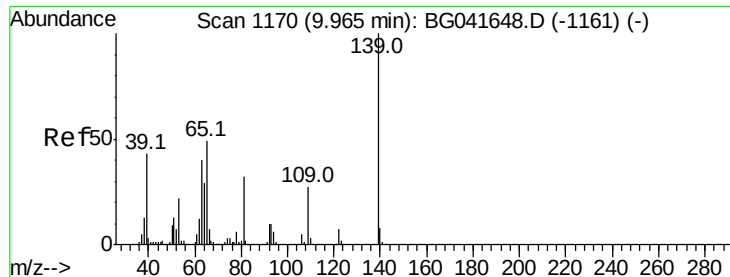


Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BGC





#26

2-Nitrophenol

Concen: 4.669 ng

RT: 9.62 min Scan# 1112

Delta R.T. -0.34 min

Lab File: BG041700.D

Acq: 17 Jul 2019 22:55

Instrument :

BNA\_G

ClientSampled :

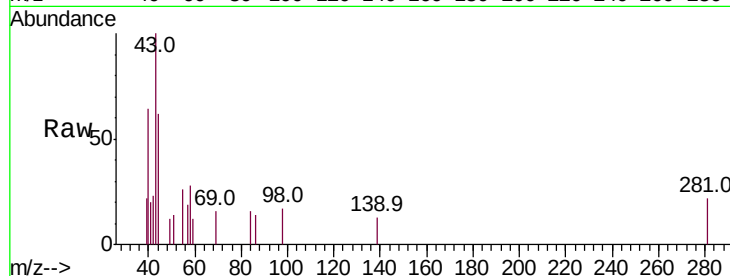
Tot Ion:139 Resp: 61

Ion Ratio Lower Upper

139 100

109 0.0 22.7 34.1#

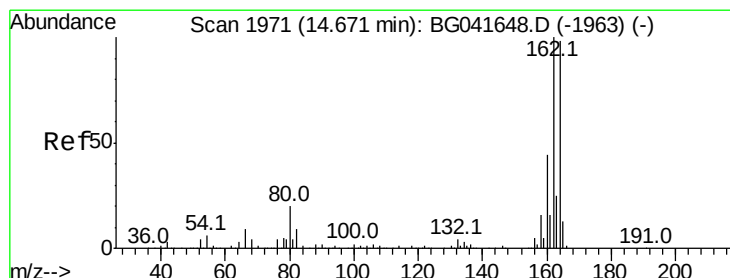
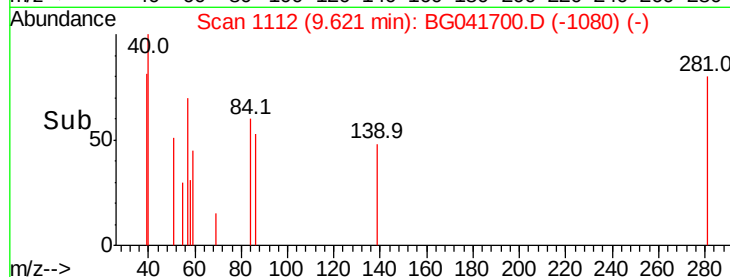
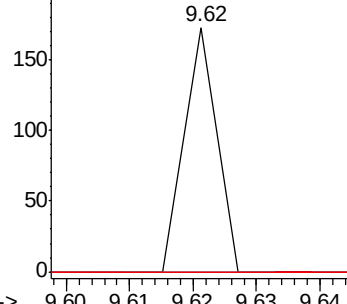
65 0.0 41.1 61.7#



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



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.66 min Scan# 1970

Delta R.T. -0.01 min

Lab File: BG041700.D

Acq: 17 Jul 2019 22:55

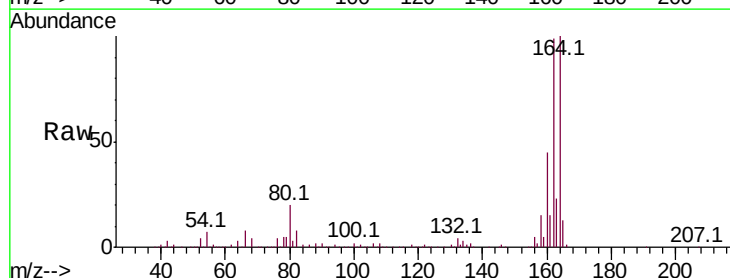
Tgt Ion:164 Resp: 253992

Ion Ratio Lower Upper

164 100

162 99.5 79.6 119.4

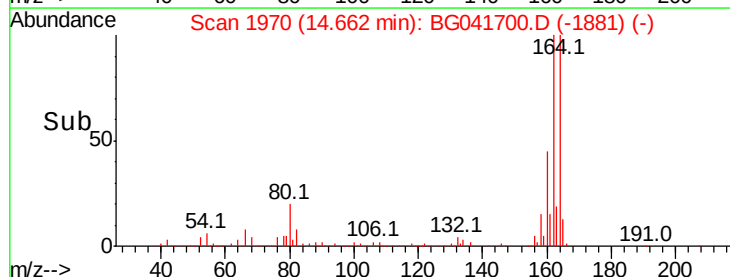
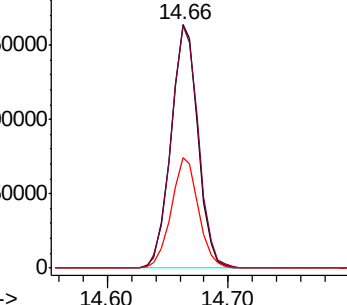
160 45.3 35.4 53.0

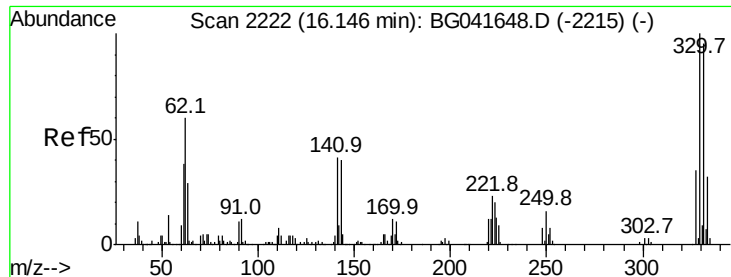


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 160.636 ng

RT: 16.14 min Scan# 2222

Delta R.T. -0.01 min

Lab File: BG041700.D

Acq: 17 Jul 2019 22:55

Instrument :

BNA\_G

ClientSampleId :

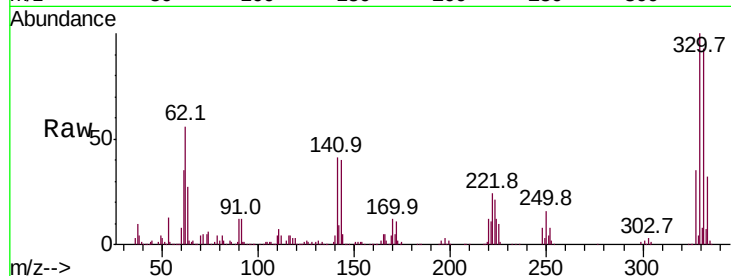
Tot Ion:330 Resp: 459813

Ion Ratio Lower Upper

330 100

332 95.4 77.4 116.0

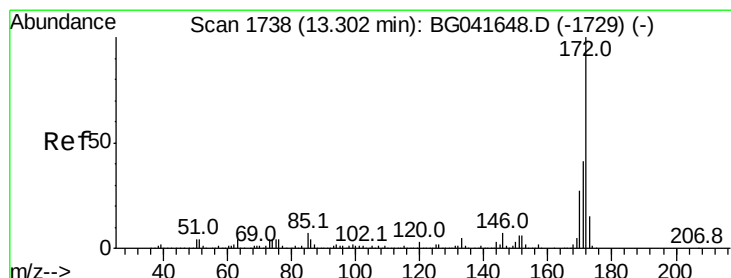
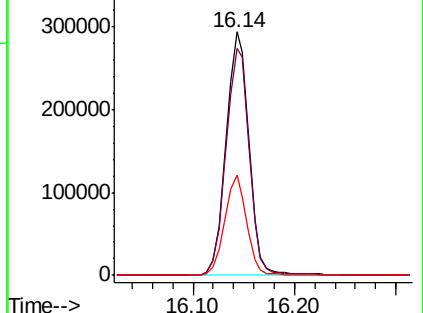
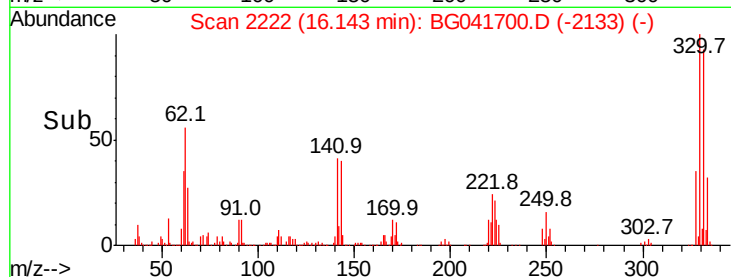
141 39.3 31.9 47.9



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: 87.654 ng

RT: 13.29 min Scan# 1737

Delta R.T. -0.01 min

Lab File: BG041700.D

Acq: 17 Jul 2019 22:55

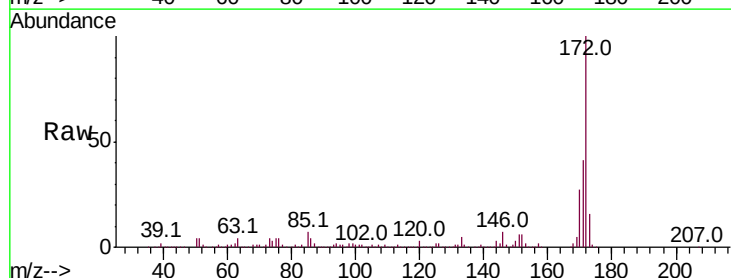
Tgt Ion:172 Resp: 1437750

Ion Ratio Lower Upper

172 100

171 40.6 35.0 52.4

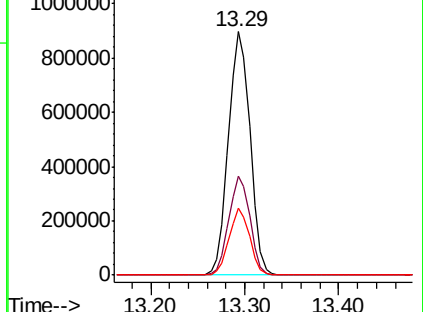
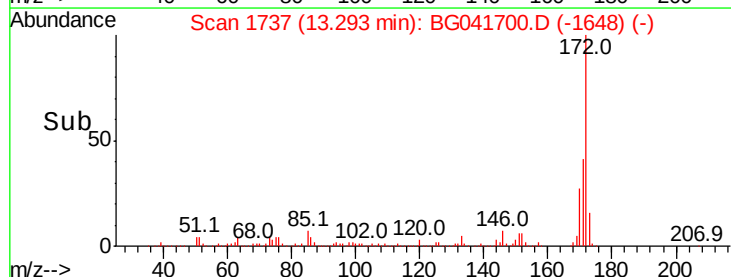
170 27.3 23.5 35.3

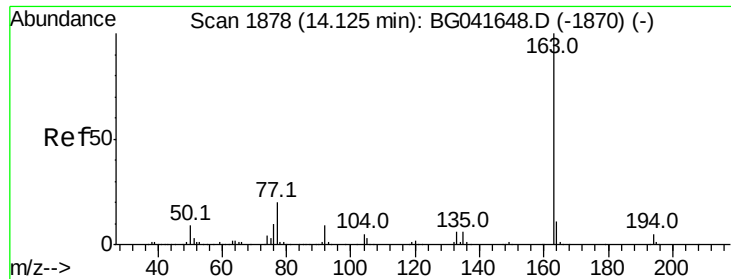


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 14.773 ng

RT: 14.11 min Scan# 1876

Delta R.T. -0.02 min

Lab File: BG041700.D

Acq: 17 Jul 2019 22:55

Instrument :

BNA\_G

ClientSampled :

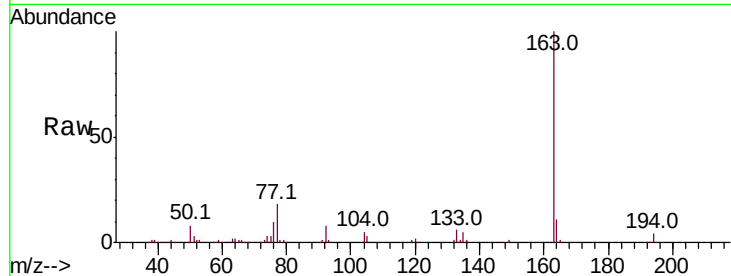
Tot Ion:163 Resp: 294705

Ion Ratio Lower Upper

163 100

194 4.3 4.2 6.2

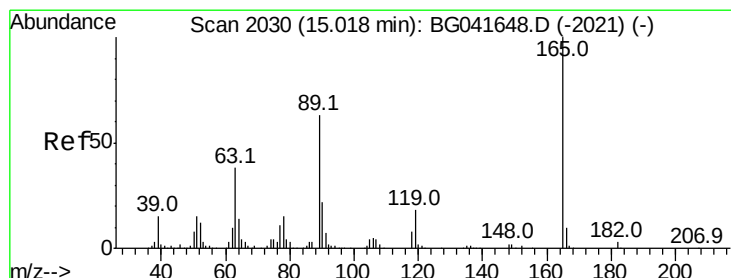
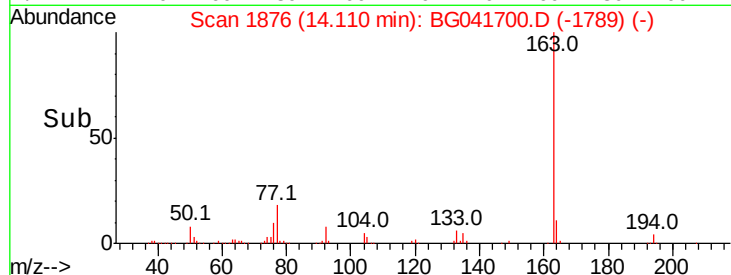
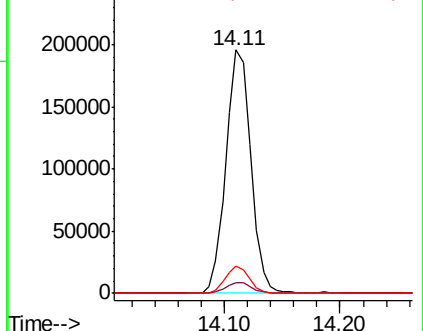
164 11.2 9.4 14.2



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#57

2,4-Dinitrotoluene

Concen: 5.877 ng

RT: 14.66 min Scan# 1970

Delta R.T. -0.36 min

Lab File: BG041700.D

Acq: 17 Jul 2019 22:55

Tgt Ion:165 Resp: 32870

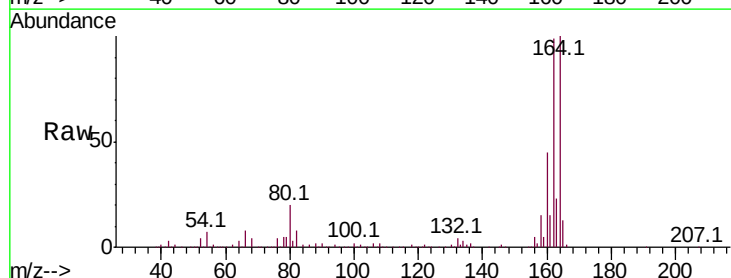
Ion Ratio Lower Upper

165 100

63 0.0 31.7 47.5#

89 1.4 50.2 75.4#

182 0.0 2.6 4.0#

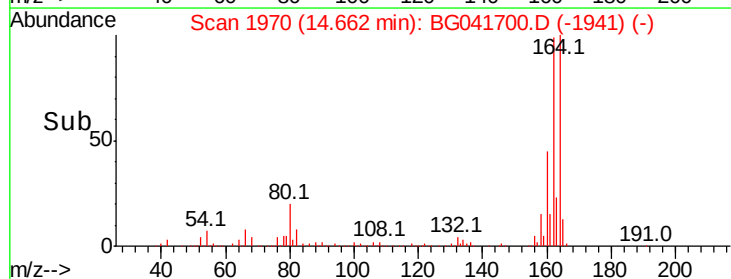
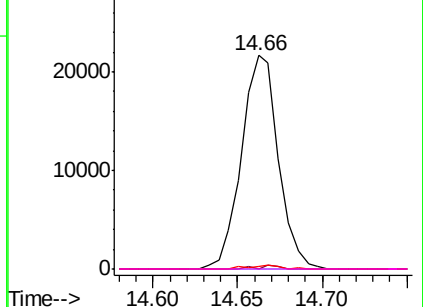


Abundance Ion 165.00 (164.70 to 165.70): E

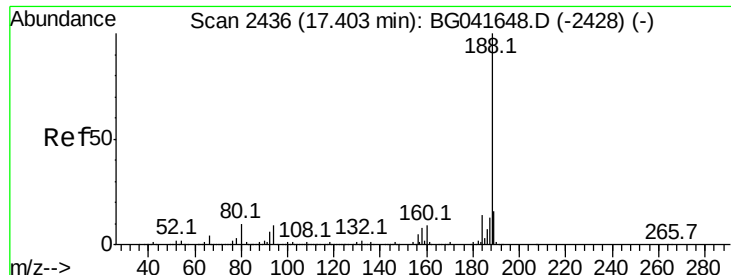
Ion 63.00 (62.70 to 63.70): BGC

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: 17.40 min Scan# 2436

Delta R.T. -0.01 min

Lab File: BG041700.D

Acq: 17 Jul 2019 22:55

Instrument :

BNA\_G

ClientSampleId :

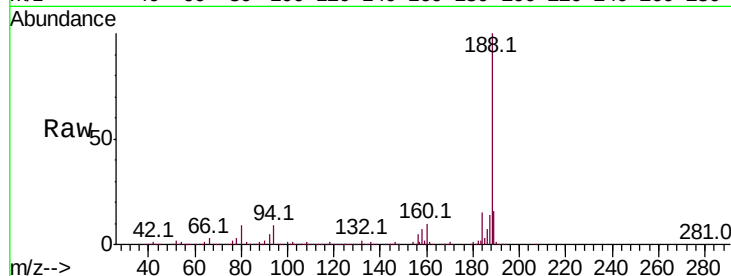
Tot Ion:188 Resp: 661465

Ion Ratio Lower Upper

188 100

94 8.6 6.9 10.3

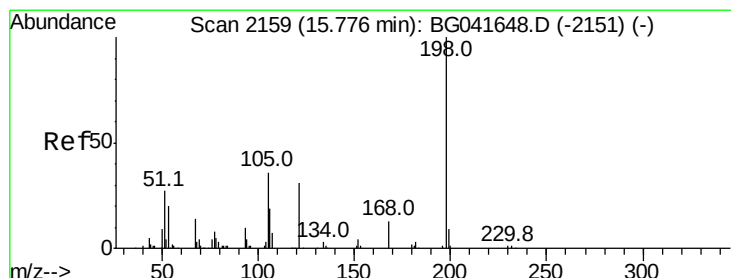
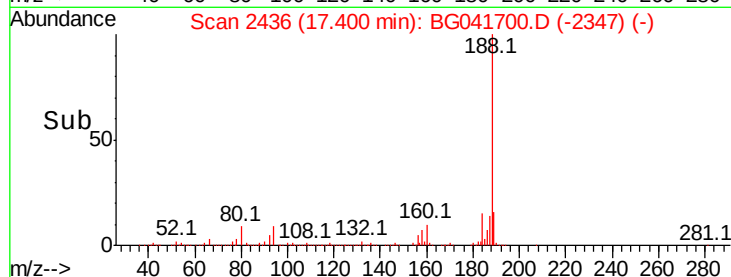
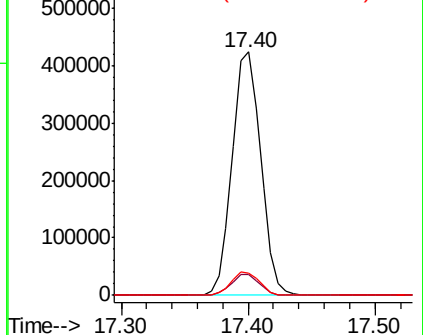
80 8.9 8.0 12.0



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: 7.057 ng

RT: 16.14 min Scan# 2222

Delta R.T. 0.36 min

Lab File: BG041700.D

Acq: 17 Jul 2019 22:55

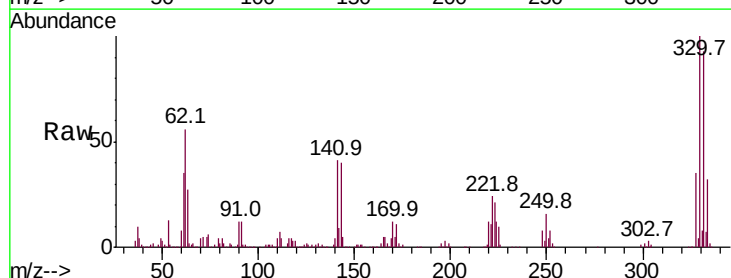
Tgt Ion:198 Resp: 1397

Ion Ratio Lower Upper

198 100

51 166.3 22.3 62.3#

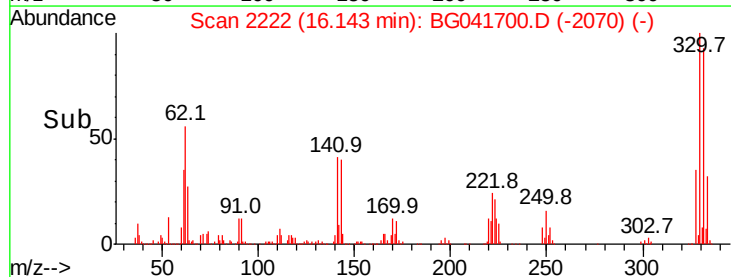
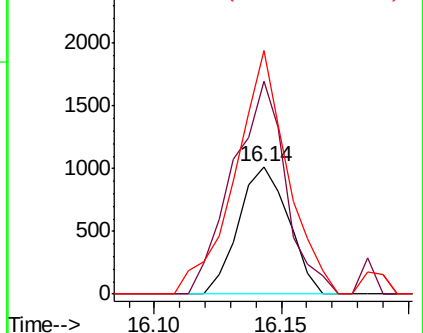
105 190.6 18.0 58.0#

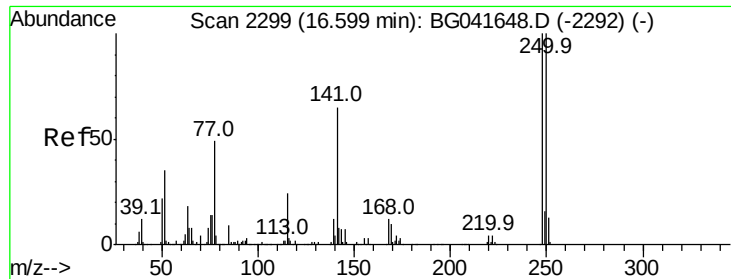


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BGC

Ion 105.00 (104.70 to 105.70): E

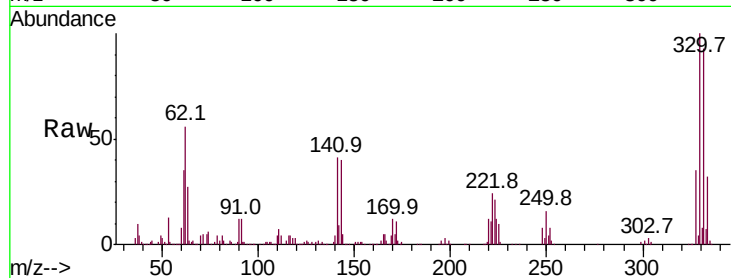




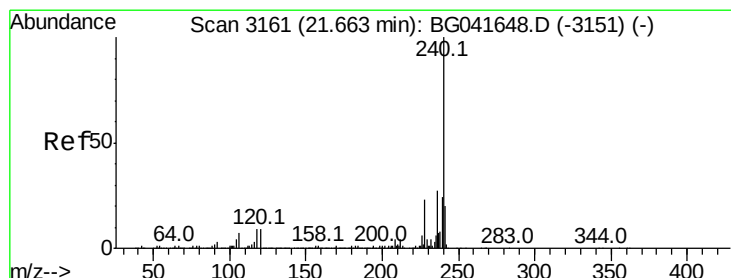
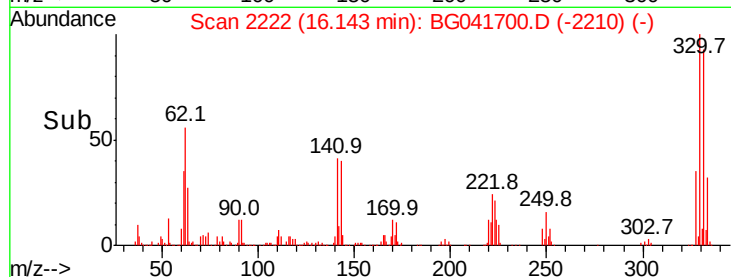
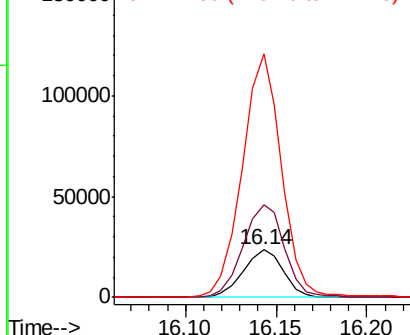
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.547 ng  
 RT: 16.14 min Scan# 2222  
 Delta R.T. -0.46 min  
 Lab File: BG041700.D  
 Acq: 17 Jul 2019 22:55

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:248 Resp: 35789  
 Ion Ratio Lower Upper  
 248 100  
 250 196.4 78.1 117.1#  
 141 515.0 49.6 74.4#

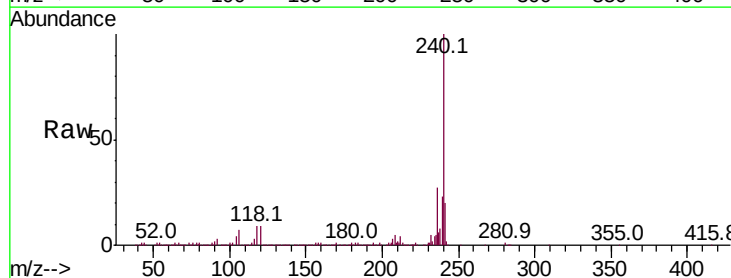


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

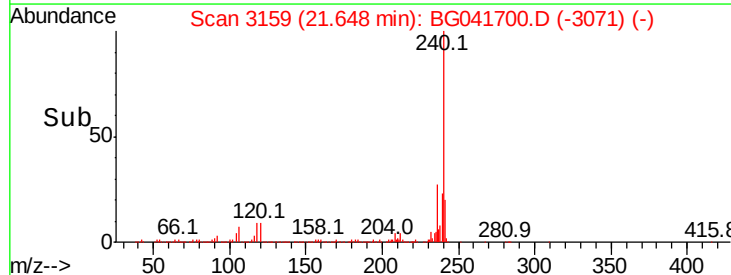
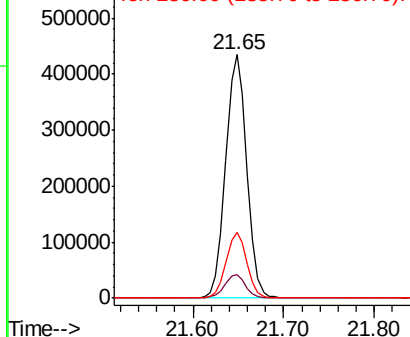


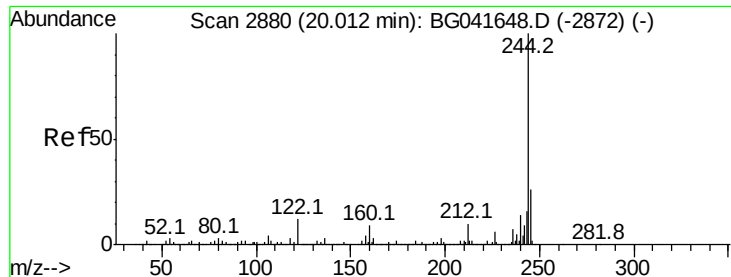
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.65 min Scan# 3159  
 Delta R.T. -0.01 min  
 Lab File: BG041700.D  
 Acq: 17 Jul 2019 22:55

Tgt Ion:240 Resp: 699414  
 Ion Ratio Lower Upper  
 240 100  
 120 9.4 8.0 12.0  
 236 27.1 22.6 33.8



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



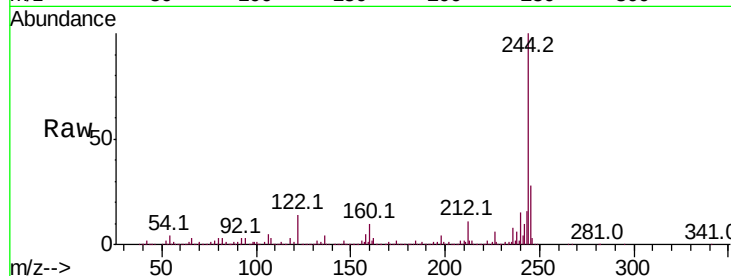


#79  
 Terphenyl-d14  
 Concen: 76.822 ng  
 RT: 20.00 min Scan# 2879  
 Delta R.T. -0.01 min  
 Lab File: BG041700.D  
 Acq: 17 Jul 2019 22:55

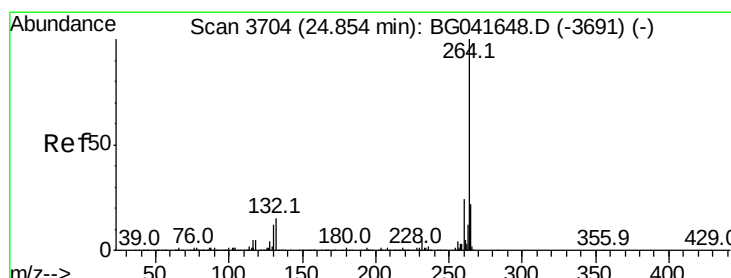
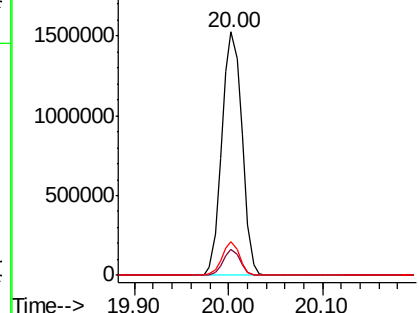
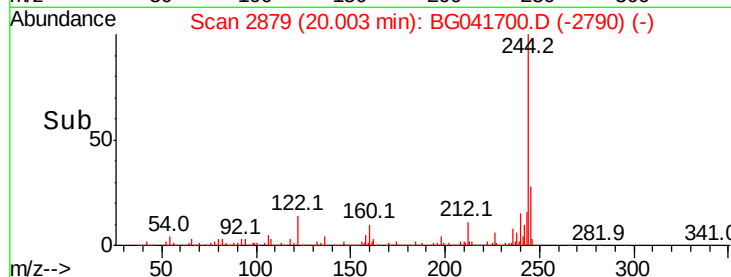
Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:244 Resp: 2299246  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 10.8  | 9.7   | 14.5  |
| 122 | 13.6  | 12.5  | 18.7  |



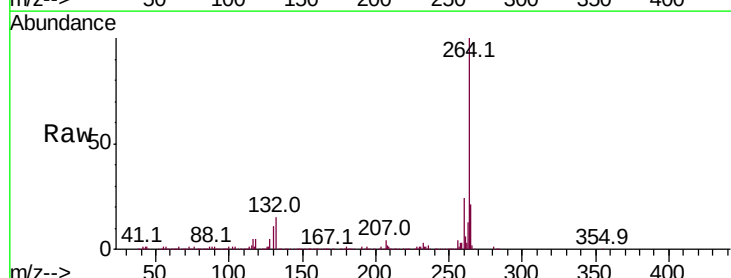
Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 24.84 min Scan# 3703  
 Delta R.T. -0.02 min  
 Lab File: BG041700.D  
 Acq: 17 Jul 2019 22:55

Tgt Ion:264 Resp: 806101  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.9  | 19.5  | 29.3  |
| 265 | 21.4  | 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

