

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_G\DATA\BG032618\  
 Data File : BG033329.D  
 Acq On : 26 Mar 2018 14:54  
 Operator : SJ/JU  
 Sample : J1994-15  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PR-MW-01-031918

Quant Time: Mar 26 18:25:18 2018  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG031918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 23 15:11:46 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.87  | 152  | 51719    | 20.00 | ng    | -0.03    |
| 21) Naphthalene-d8        | 11.75 | 136  | 210084   | 20.00 | ng    | -0.03    |
| 38) Acenaphthene-d10      | 15.49 | 164  | 170753   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10      | 18.22 | 188  | 371867   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12          | 22.56 | 240  | 403558   | 20.00 | ng    | -0.04    |
| 86) Perylene-d12          | 26.32 | 264  | 437322   | 20.00 | ng    | -0.06    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 6.29  | 112  | 161741   | 58.64  | ng    | -0.02    |
| 7) Phenol-d6                | 7.97  | 99   | 160379   | 33.84  | ng    | -0.03    |
| 23) Nitrobenzene-d5         | 10.07 | 82   | 376745   | 82.39  | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol    | 16.97 | 330  | 280777   | 109.94 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 14.12 | 172  | 813675   | 68.79  | ng    | -0.02    |
| 78) Terphenyl-d14           | 20.74 | 244  | 1432537  | 75.92  | ng    | -0.02    |

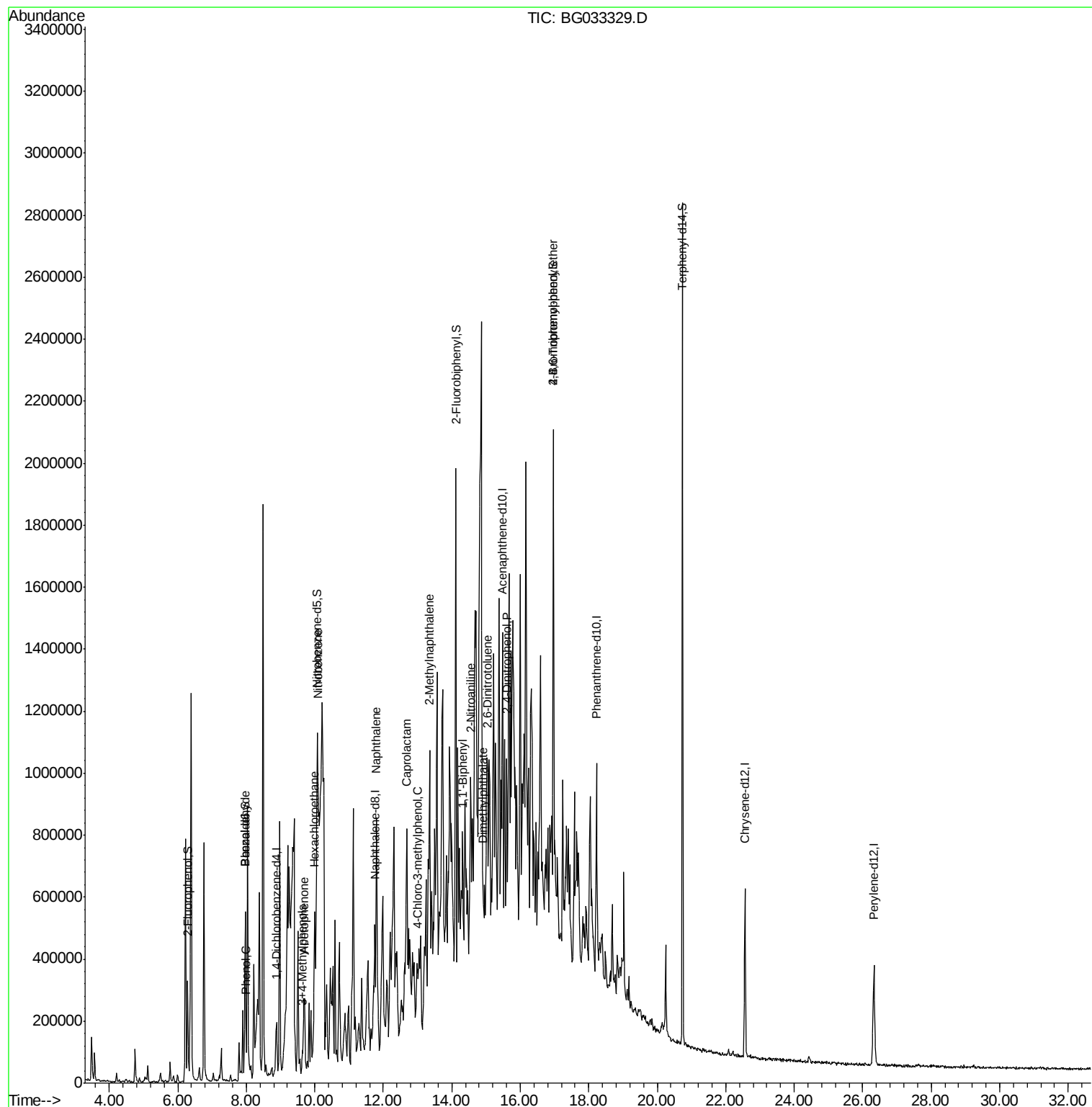
| Target Compounds              | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|-------|------|----------|--------|-------|--------|
| 9) Benzaldehyde               | 7.96  | 77   | 32303    | 10.726 | ng    | # 1    |
| 10) Phenol                    | 8.00  | 94   | 19954    | 4.265  | ng    | # 66   |
| 18) Hexachloroethane          | 10.00 | 117  | 38978    | 24.462 | ng    | # 1    |
| 20) 3+4-Methylphenols         | 9.63  | 107  | 57053    | 12.571 | ng    | 96     |
| 22) Acetophenone              | 9.68  | 105  | 92575    | 16.084 | ng    | # 57   |
| 24) Nitrobenzene              | 10.09 | 77   | 12494    | 2.553  | ng    | # 10   |
| 31) Naphthalene               | 11.80 | 128  | 591885   | 54.368 | ng    | 98     |
| 35) Caprolactam               | 12.68 | 113  | 7634     | 5.886  | ng    | # 1    |
| 36) 4-Chloro-3-methylphenol   | 12.99 | 107  | 9197     | 2.130  | ng    | # 34   |
| 37) 2-Methylnaphthalene       | 13.35 | 142  | 329419   | 38.985 | ng    | 96     |
| 45) 1,1'-Biphenyl             | 14.33 | 154  | 27206    | 2.074  | ng    | 81     |
| 47) 2-Nitroaniline            | 14.56 | 65   | 22710    | 5.994  | ng    | # 33   |
| 49) Dimethylphthalate         | 14.91 | 163  | 75409    | 5.075  | ng    | # 59   |
| 50) 2,6-Dinitrotoluene        | 15.04 | 165  | 12472    | 4.105  | ng    | # 12   |
| 53) 2,4-Dinitrophenol         | 15.60 | 184  | 144      | 7.726  | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether | 16.97 | 248  | 20918    | 4.790  | ng    | # 1    |

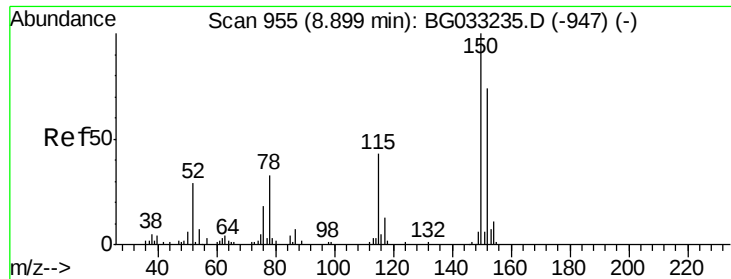
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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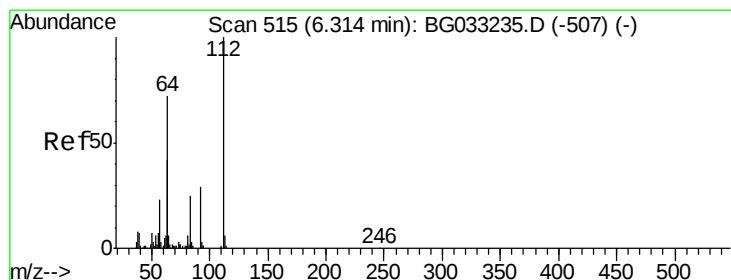
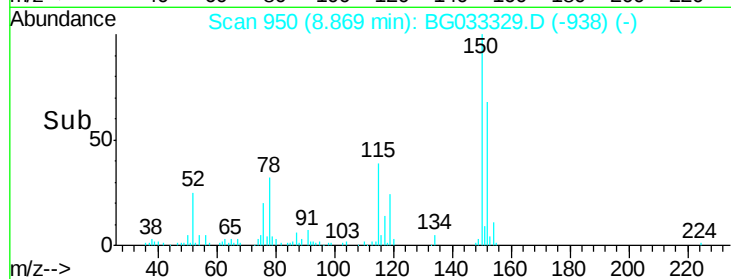
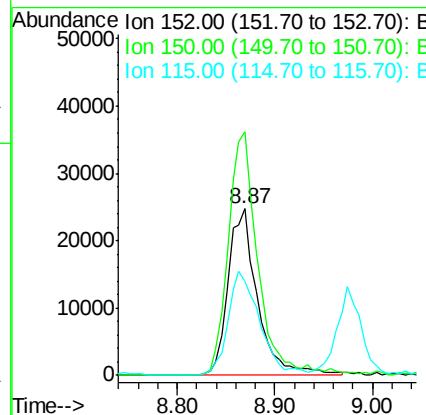
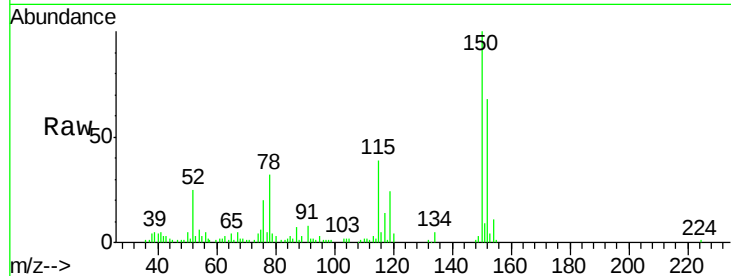


#1

1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.87 min Scan# 950  
 Delta R.T. -0.03 min  
 Lab File: BG033329.D  
 Acq: 26 Mar 2018 14:54

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PR-MW-01-031918

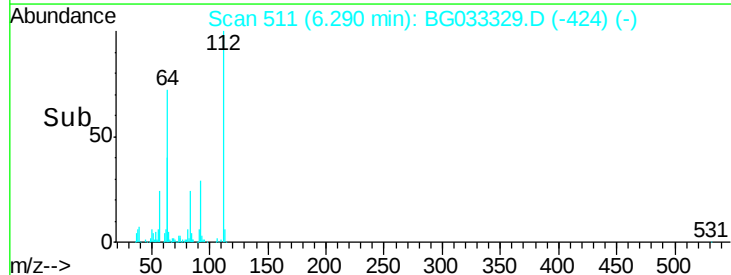
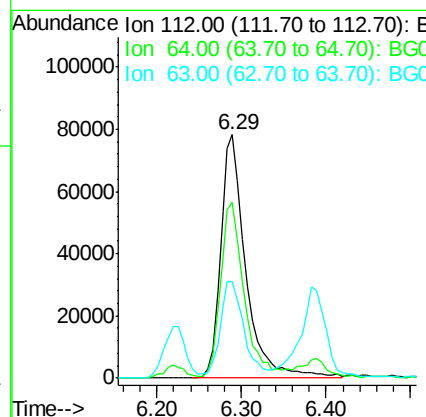
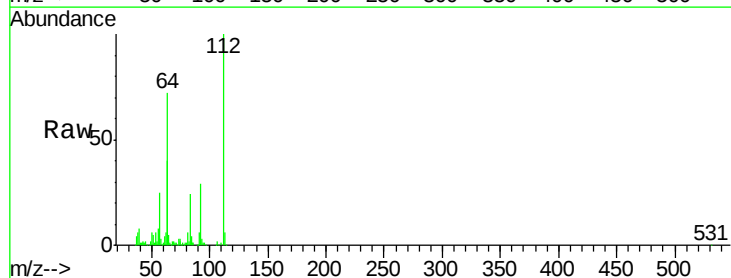
Tgt Ion:152 Resp: 51719  
 Ion Ratio Lower Upper  
 152 100  
 150 146.3 126.6 189.8  
 115 56.4 53.0 79.4

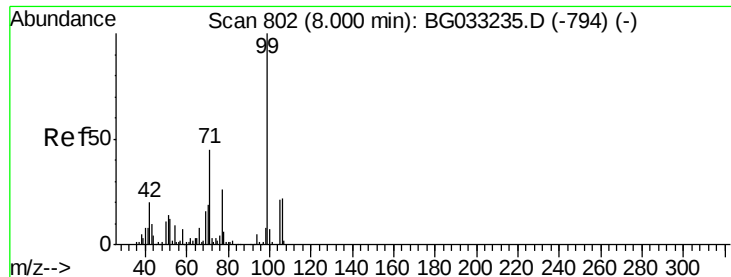


#5

2-Fluorophenol  
 Concen: 58.641 ng  
 RT: 6.29 min Scan# 511  
 Delta R.T. -0.02 min  
 Lab File: BG033329.D  
 Acq: 26 Mar 2018 14:54

Tgt Ion:112 Resp: 161741  
 Ion Ratio Lower Upper  
 112 100  
 64 72.2 56.3 84.5  
 63 39.5 30.1 45.1





#7

Phenol-d6

Concen: 33.842 ng

RT: 7.97 min Scan# 797

Delta R.T. -0.03 min

Lab File: BG033329.D

Acq: 26 Mar 2018 14:54

Instrument :

BNA\_G

ClientSampleId :

PR-MW-01-031918

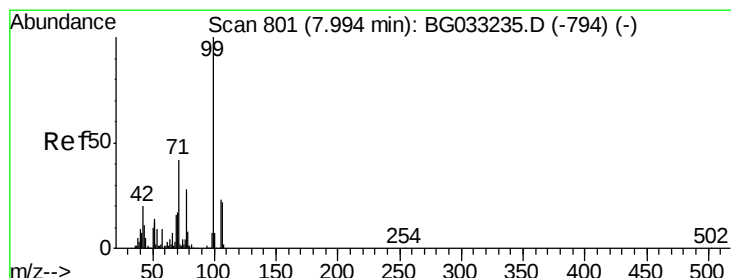
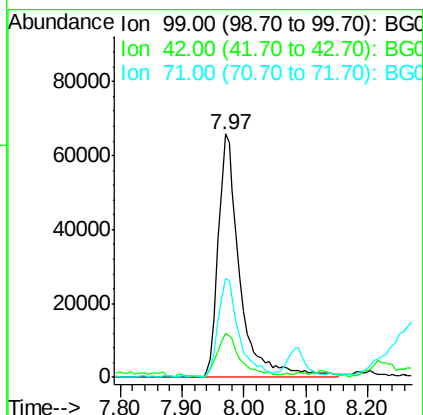
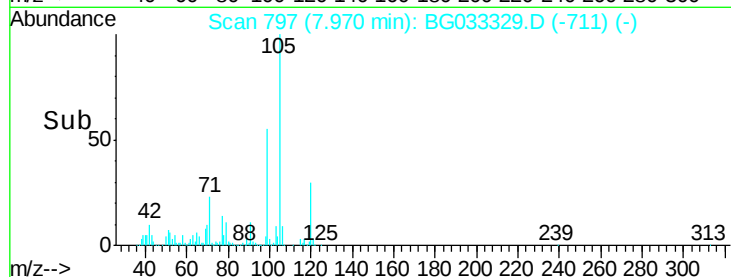
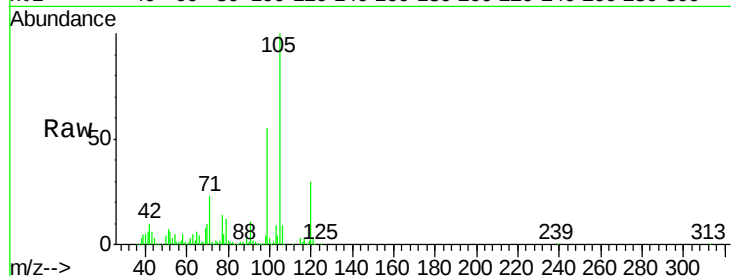
Tgt Ion: 99 Resp: 160379

Ion Ratio Lower Upper

99 100

42 18.2 14.1 21.1

71 40.9 26.1 39.1#



#9

Benzaldehyde

Concen: 10.726 ng

RT: 7.96 min Scan# 795

Delta R.T. -0.03 min

Lab File: BG033329.D

Acq: 26 Mar 2018 14:54

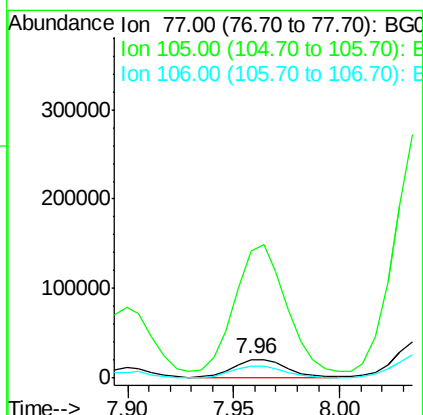
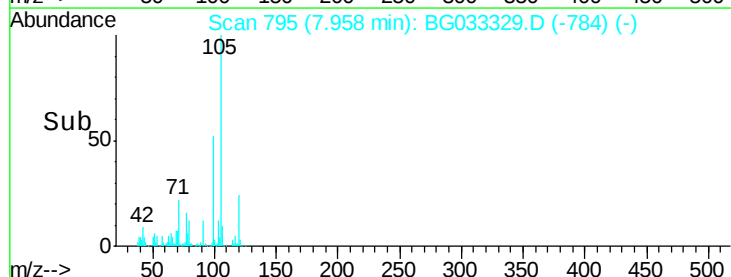
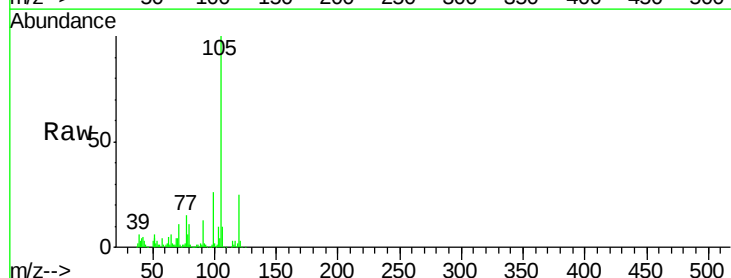
Tgt Ion: 77 Resp: 32303

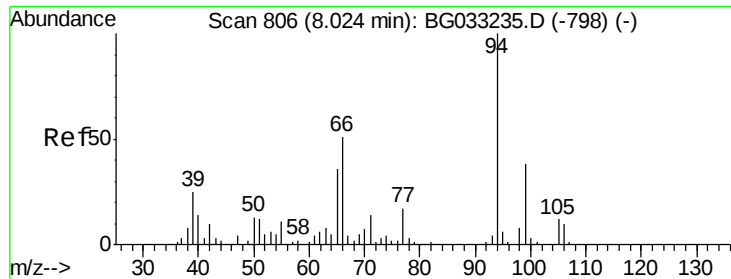
Ion Ratio Lower Upper

77 100

105 677.0 71.3 111.3#

106 65.4 64.2 104.2





#10

Phenol

Concen: 4.265 ng

RT: 8.00 min Scan# 802

Delta R.T. -0.02 min

Lab File: BG033329.D

Acq: 26 Mar 2018 14:54

Instrument :

BNA\_G

ClientSampleId :

PR-MW-01-031918

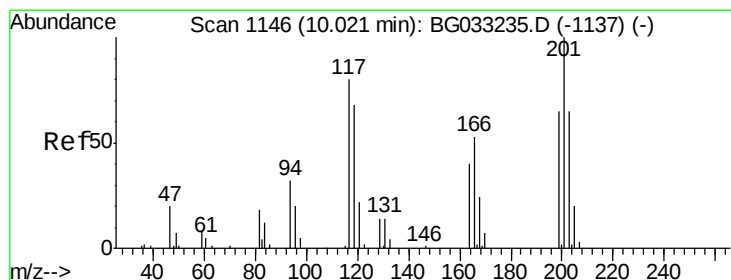
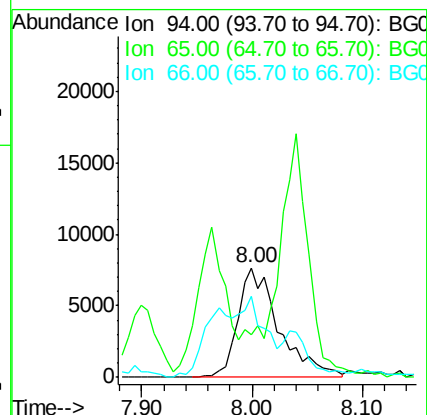
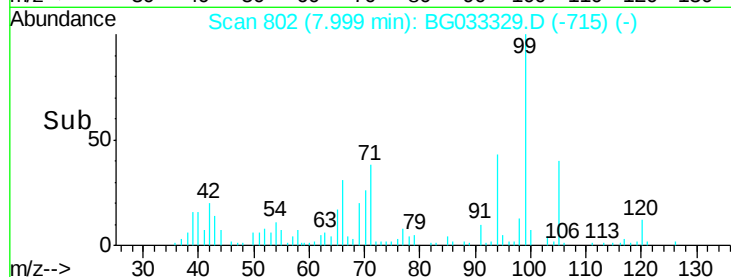
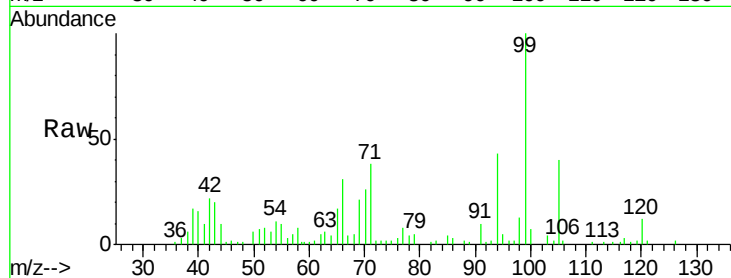
Tgt Ion: 94 Resp: 19954

Ion Ratio Lower Upper

94 100

65 39.1 11.9 51.9

66 73.7 22.2 62.2#



#18

Hexachloroethane

Concen: 24.462 ng

RT: 10.00 min Scan# 1142

Delta R.T. -0.02 min

Lab File: BG033329.D

Acq: 26 Mar 2018 14:54

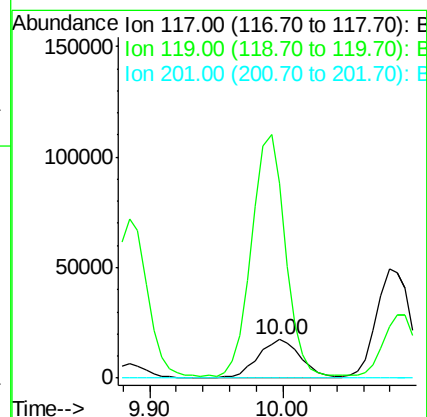
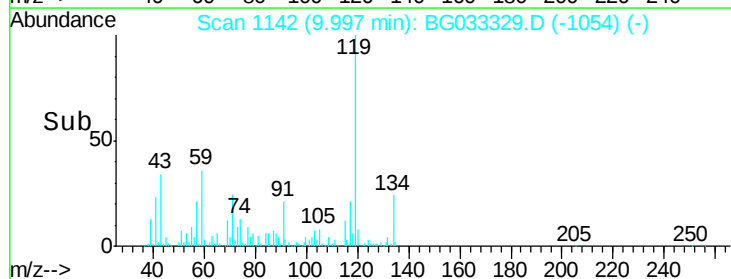
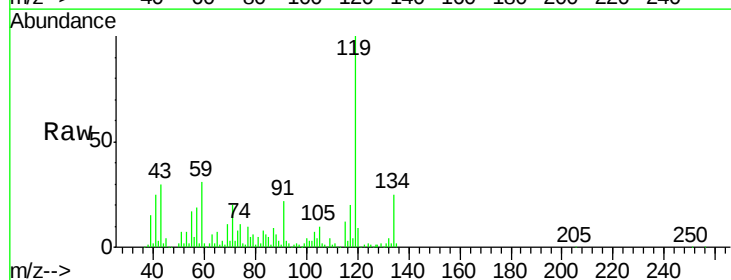
Tgt Ion: 117 Resp: 38978

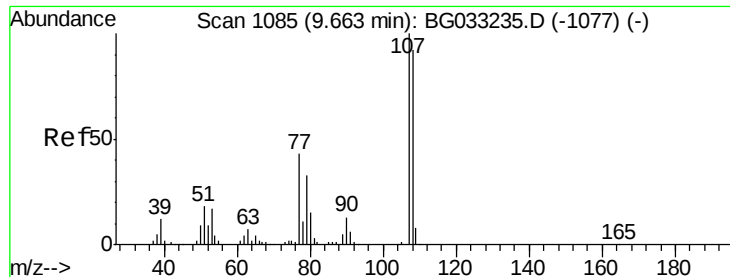
Ion Ratio Lower Upper

117 100

119 509.4 76.7 115.1#

201 0.0 95.7 143.5#

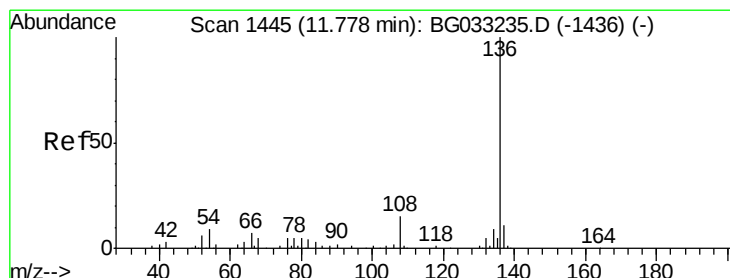
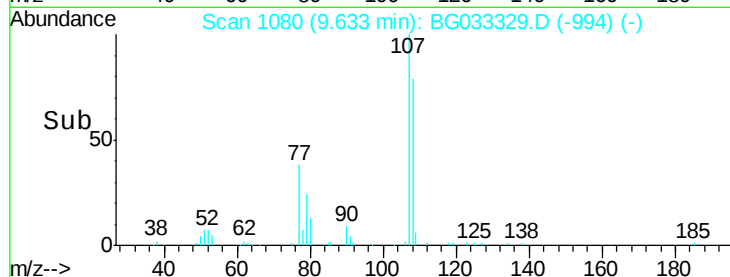
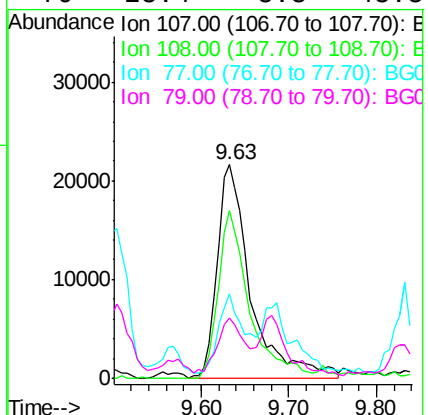
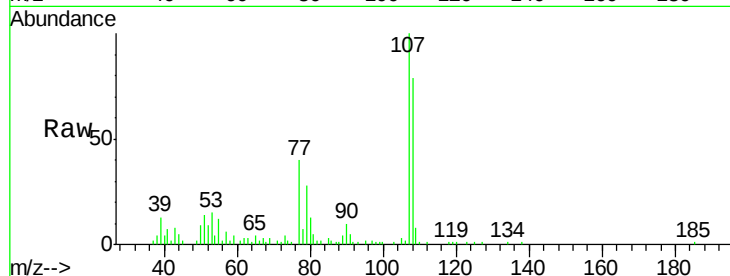




#20  
3+4-Methylphenols  
Concen: 12.571 ng  
RT: 9.63 min Scan# 1080  
Delta R.T. -0.03 min  
Lab File: BG033329.D  
Acq: 26 Mar 2018 14:54

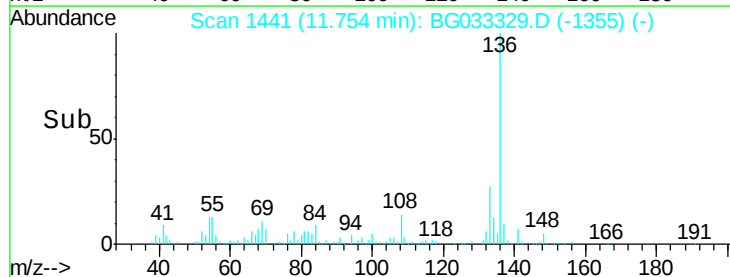
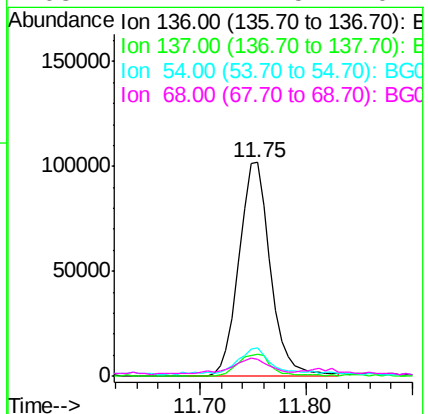
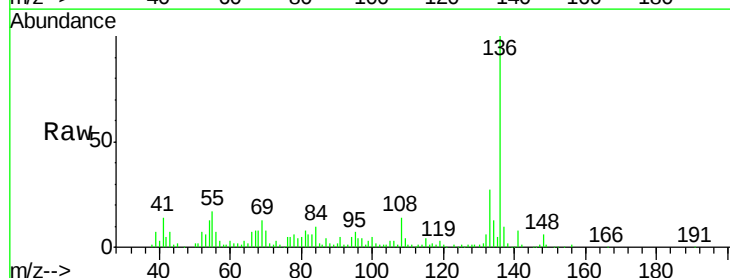
Instrument :  
BNA\_G  
ClientSampleId :  
PR-MW-01-031918

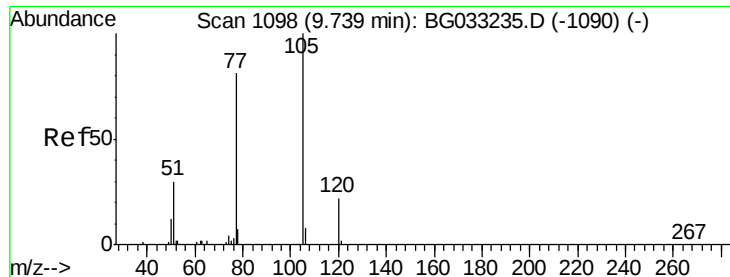
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 57053 |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 108      | 78.7  | 61.6  | 101.6 |
| 77       | 39.7  | 13.9  | 53.9  |
| 79       | 28.4  | 8.8   | 48.8  |



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.75 min Scan# 1441  
Delta R.T. -0.03 min  
Lab File: BG033329.D  
Acq: 26 Mar 2018 14:54

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 210084 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.5  | 9.2   | 13.8   |
| 54       | 13.4  | 10.3  | 15.5   |
| 68       | 7.7   | 4.5   | 6.7#   |





#22

Acetophenone

Concen: 16.084 ng

RT: 9.68 min Scan# 1088

Delta R.T. -0.06 min

Lab File: BG033329.D

Acq: 26 Mar 2018 14:54

Instrument :

BNA\_G

ClientSampleId :

PR-MW-01-031918

Tgt Ion:105 Resp: 92575

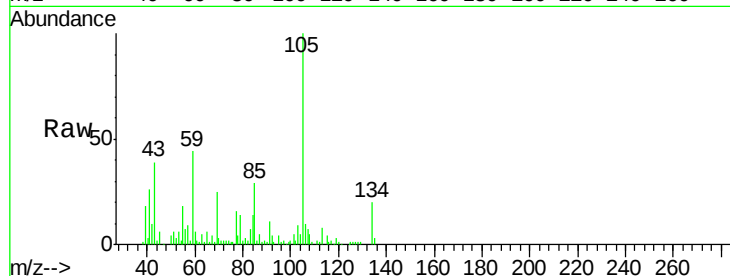
Ion Ratio Lower Upper

105 100

71 1.6 3.0 4.4#

51 6.2 26.1 39.1#

120 0.7 17.4 26.2#

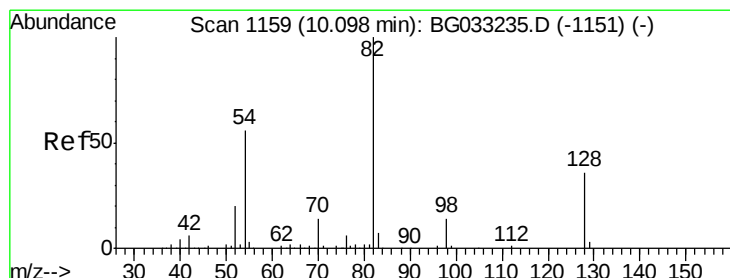
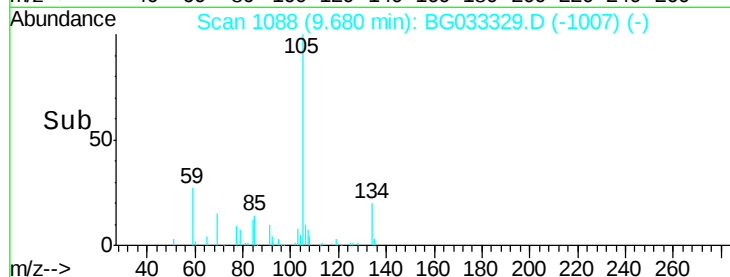
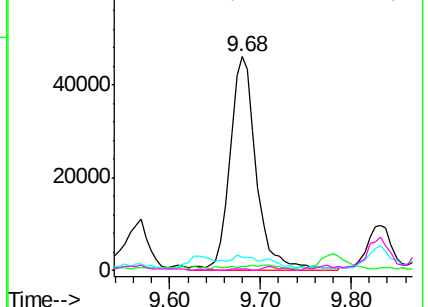


Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BGC

Ion 51.00 (50.70 to 51.70): BGC

Ion 120.00 (119.70 to 120.70): E



#23

Nitrobenzene-d5

Concen: 82.392 ng

RT: 10.07 min Scan# 1154

Delta R.T. -0.03 min

Lab File: BG033329.D

Acq: 26 Mar 2018 14:54

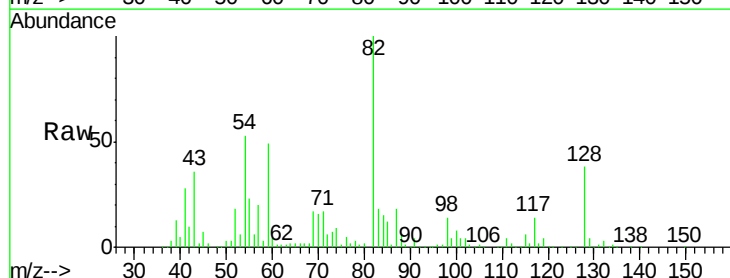
Tgt Ion: 82 Resp: 376745

Ion Ratio Lower Upper

82 100

128 38.4 29.7 44.5

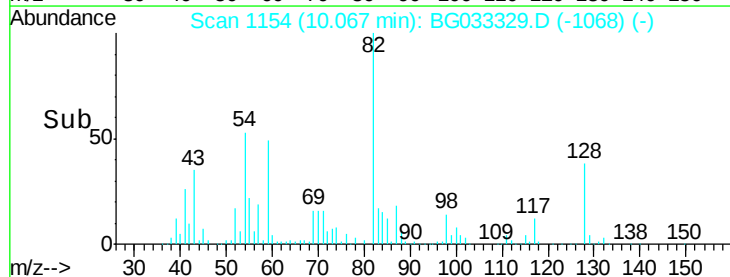
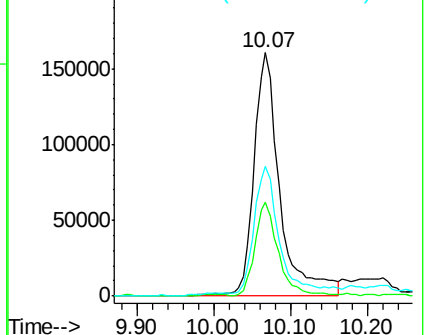
54 53.4 43.1 64.7

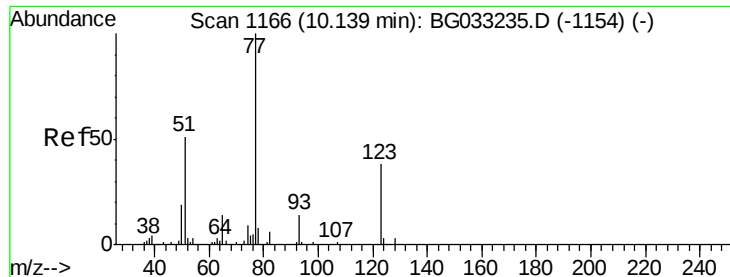


Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BGC





#24

Nitrobenzene

Concen: 2.553 ng

RT: 10.09 min Scan# 1157

Delta R.T. -0.05 min

Lab File: BG033329.D

Acq: 26 Mar 2018 14:54

Instrument :

BNA\_G

ClientSampleId :

PR-MW-01-031918

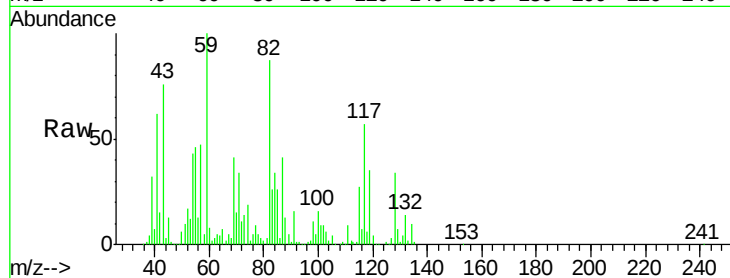
Tgt Ion: 77 Resp: 12494

Ion Ratio Lower Upper

77 100

123 0.0 33.0 49.6#

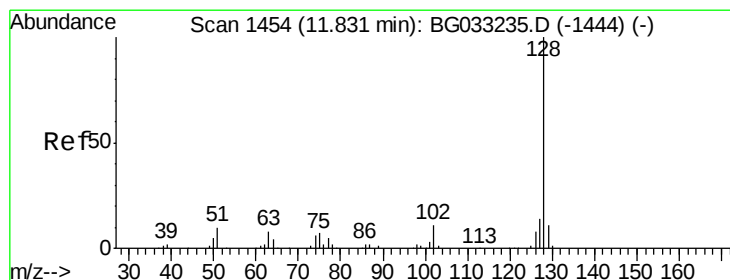
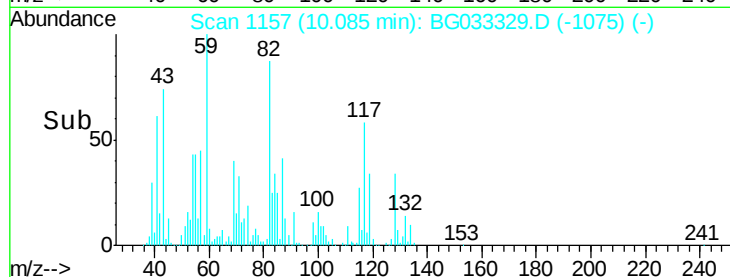
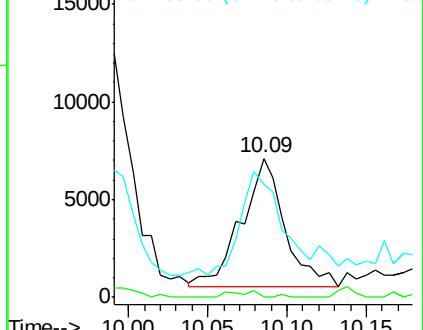
65 81.3 13.0 19.6#



Abundance Ion 77.00 (76.70 to 77.70): BGC

Ion 123.00 (122.70 to 123.70): BGC

Ion 65.00 (64.70 to 65.70): BGC



#31

Naphthalene

Concen: 54.368 ng

RT: 11.80 min Scan# 1449

Delta R.T. -0.03 min

Lab File: BG033329.D

Acq: 26 Mar 2018 14:54

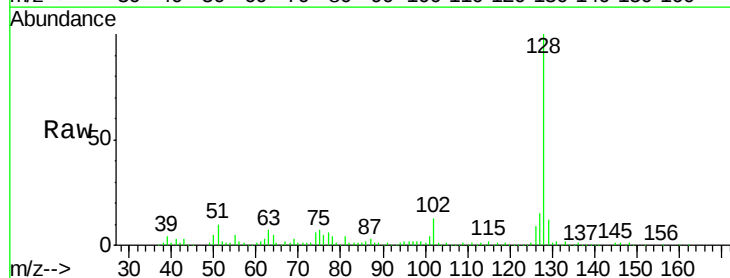
Tgt Ion: 128 Resp: 591885

Ion Ratio Lower Upper

128 100

129 12.3 8.6 12.8

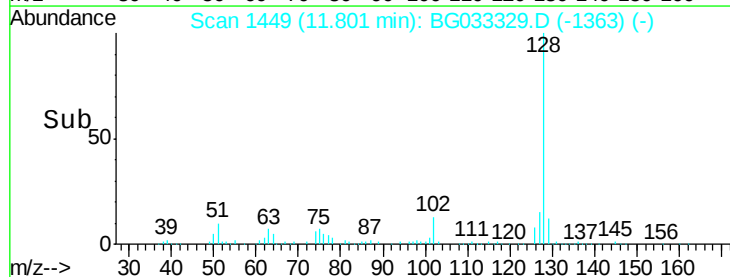
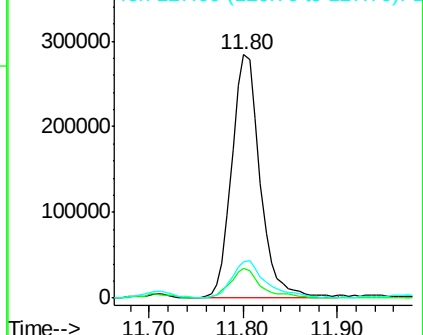
127 14.8 11.6 17.4

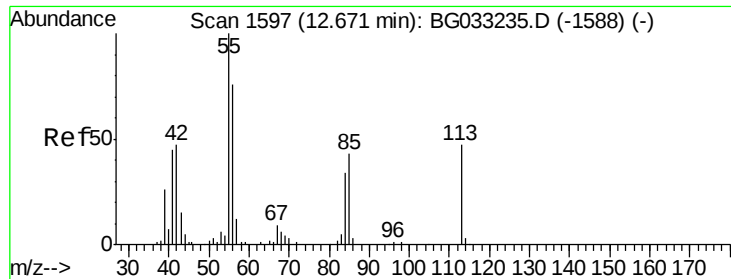


Abundance Ion 128.00 (127.70 to 128.70): BGC

Ion 129.00 (128.70 to 129.70): BGC

Ion 127.00 (126.70 to 127.70): BGC





#35

Caprolactam

Concen: 5.886 ng

RT: 12.68 min Scan# 1599

Delta R.T. 0.01 min

Lab File: BG033329.D

Acq: 26 Mar 2018 14:54

Instrument :

BNA\_G

ClientSampleId :

PR-MW-01-031918

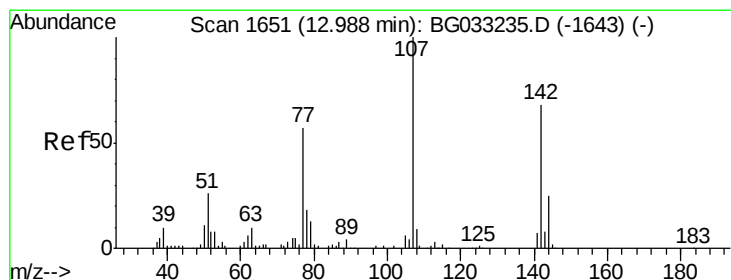
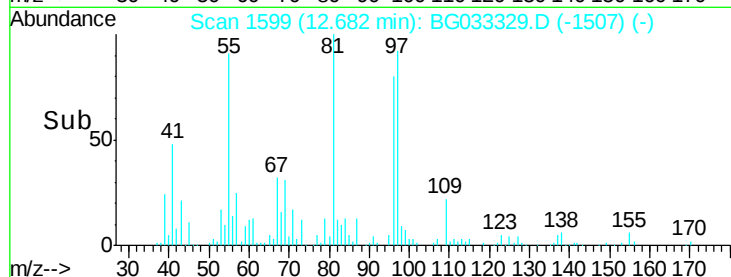
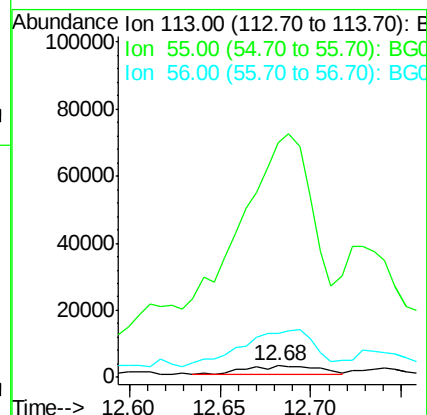
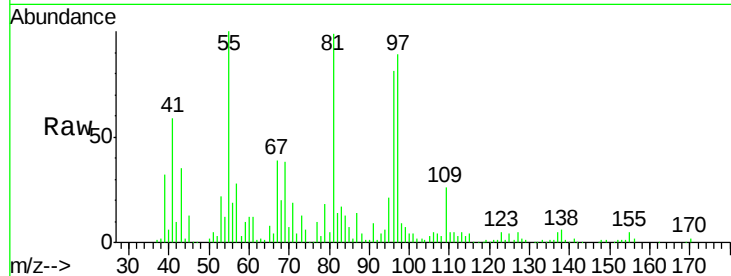
Tgt Ion:113 Resp: 7634

Ion Ratio Lower Upper

113 100

55 1993.2 186.9 226.9#

56 369.4 130.9 170.9#



#36

4-Chloro-3-methylphenol

Concen: 2.130 ng

RT: 12.99 min Scan# 1652

Delta R.T. 0.01 min

Lab File: BG033329.D

Acq: 26 Mar 2018 14:54

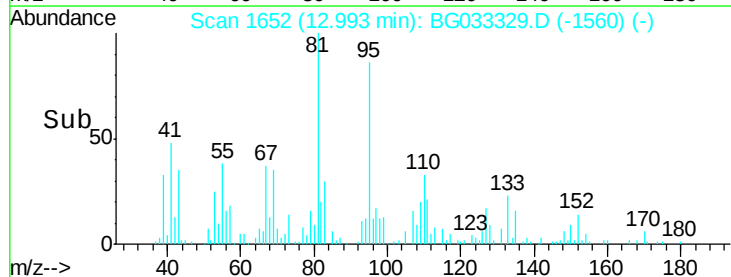
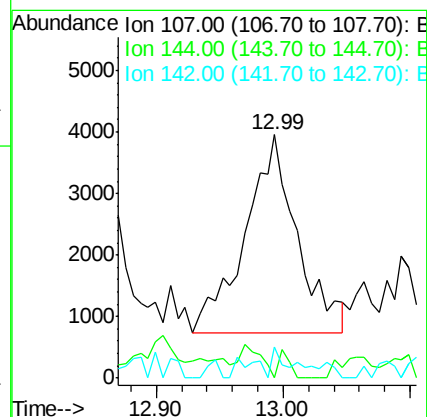
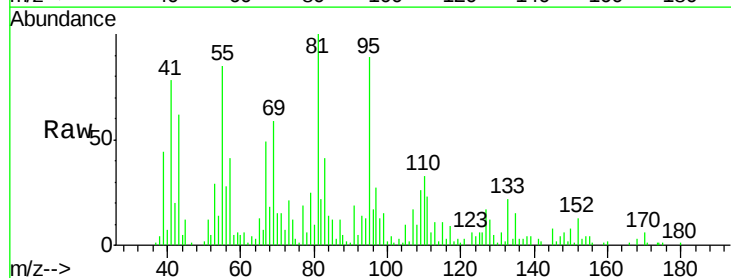
Tgt Ion:107 Resp: 9197

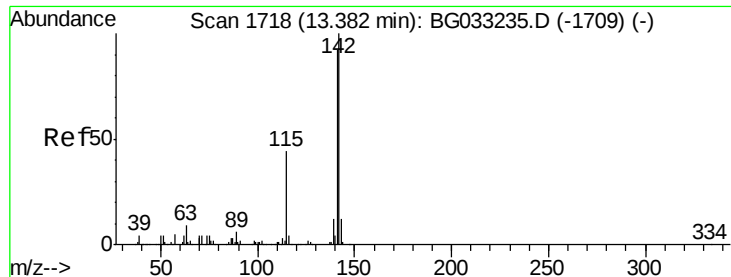
Ion Ratio Lower Upper

107 100

144 0.0 18.2 27.4#

142 12.9 59.0 88.4#

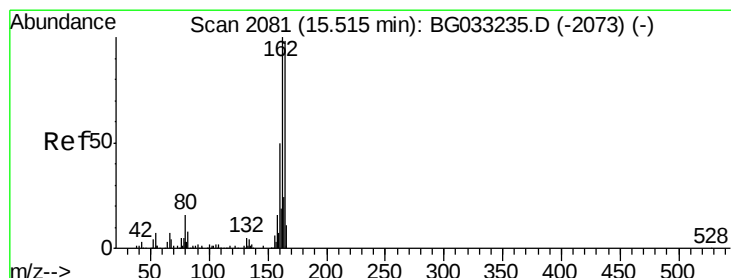
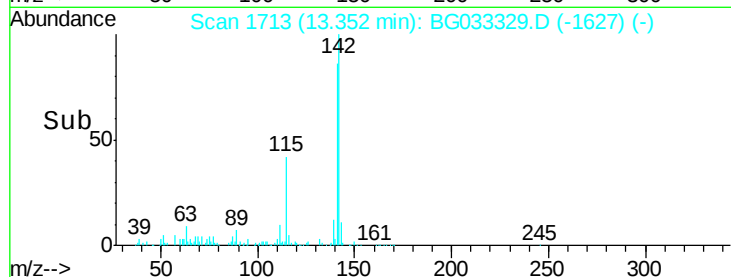
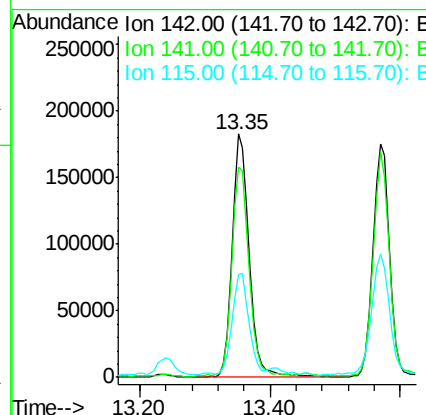
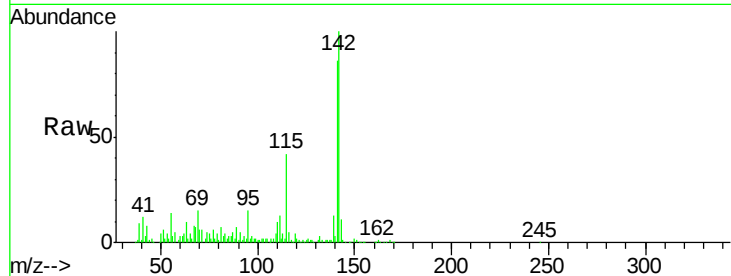




#37  
 2-Methylnaphthalene  
 Concen: 38.985 ng  
 RT: 13.35 min Scan# 1713  
 Delta R.T. -0.03 min  
 Lab File: BG033329.D  
 Acq: 26 Mar 2018 14:54

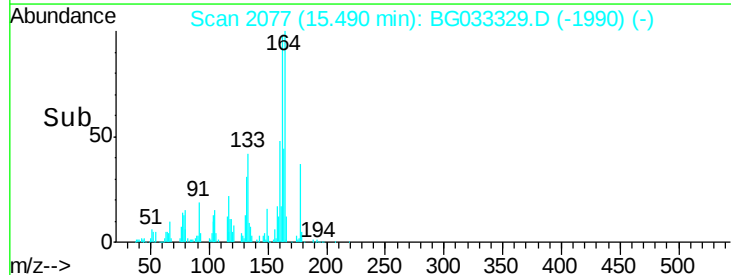
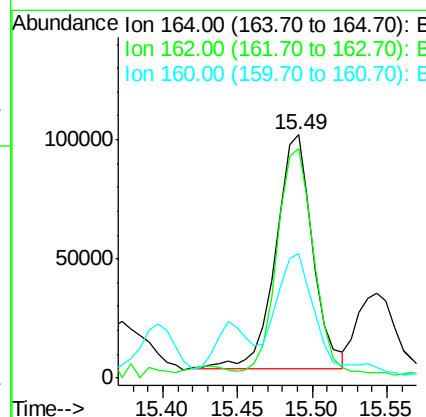
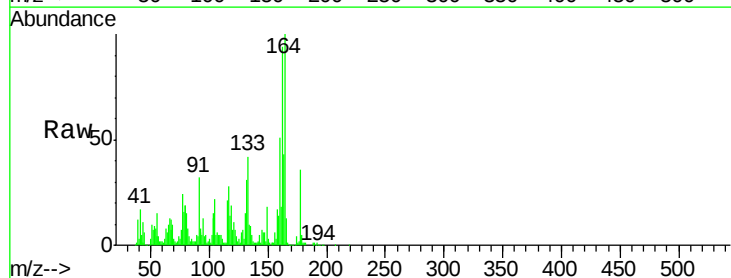
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PR-MW-01-031918

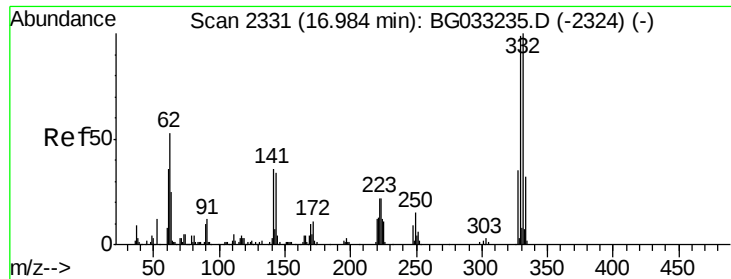
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 86.2  | 67.1  | 100.7 |
| 115     | 42.3  | 30.7  | 46.1  |



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 15.49 min Scan# 2077  
 Delta R.T. -0.02 min  
 Lab File: BG033329.D  
 Acq: 26 Mar 2018 14:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 94.1  | 78.8  | 118.2 |
| 160     | 50.9  | 35.4  | 53.0  |

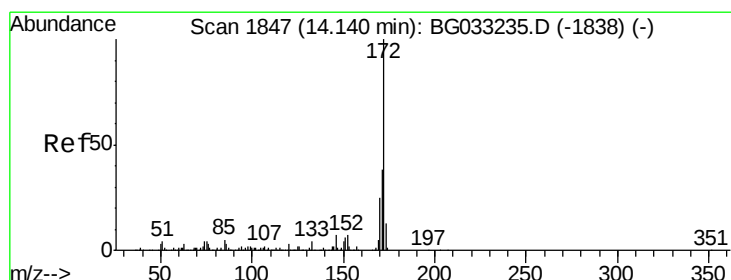
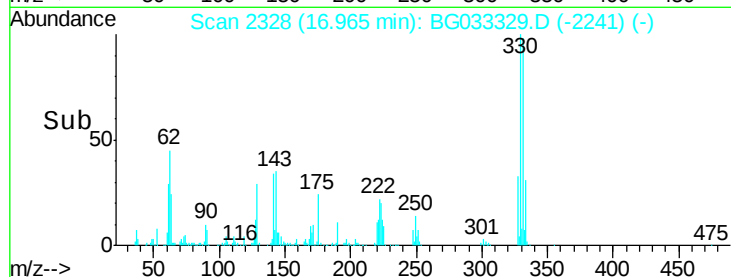
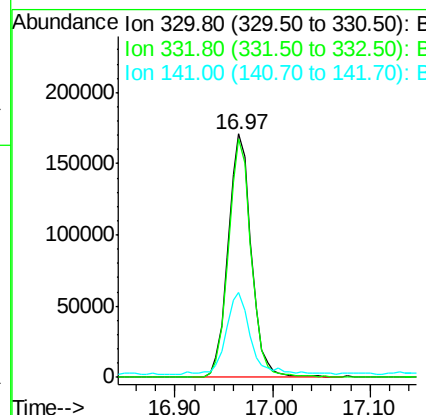
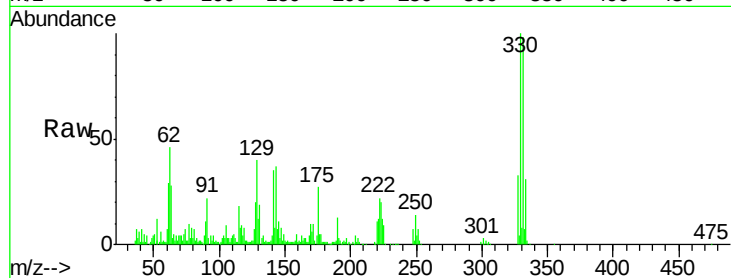




#41  
 2,4,6-Tribromophenol  
 Concen: 109.944 ng  
 RT: 16.97 min Scan# 2328  
 Delta R.T. -0.02 min  
 Lab File: BG033329.D  
 Acq: 26 Mar 2018 14:54

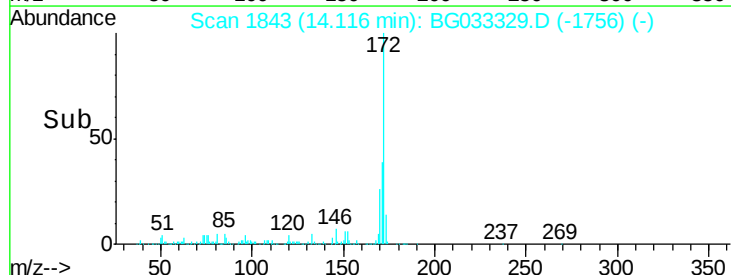
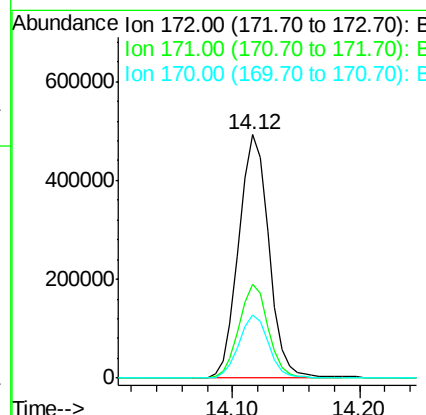
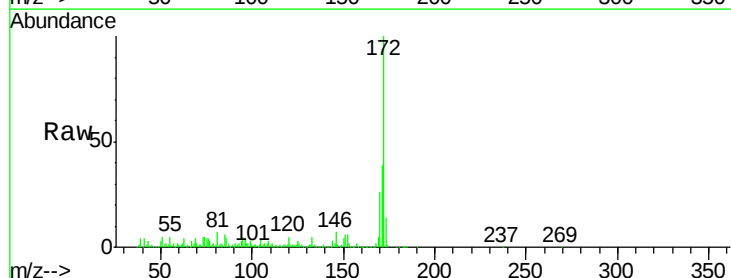
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PR-MW-01-031918

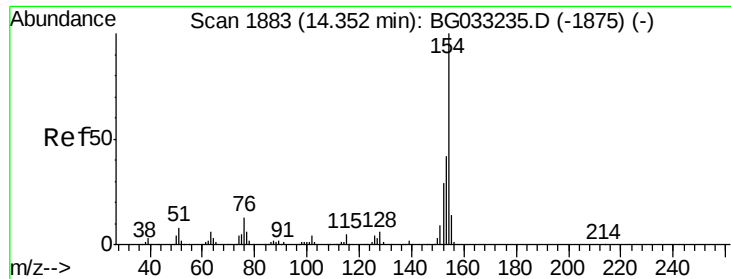
Tgt Ion:330 Resp: 280777  
 Ion Ratio Lower Upper  
 330 100  
 332 96.3 77.0 115.6  
 141 36.3 25.2 37.8



#44  
 2-Fluorobiphenyl  
 Concen: 68.792 ng  
 RT: 14.12 min Scan# 1843  
 Delta R.T. -0.02 min  
 Lab File: BG033329.D  
 Acq: 26 Mar 2018 14:54

Tgt Ion:172 Resp: 813675  
 Ion Ratio Lower Upper  
 172 100  
 171 38.7 30.0 45.0  
 170 25.9 19.5 29.3

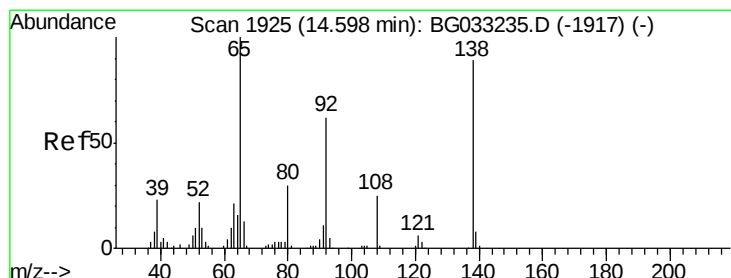
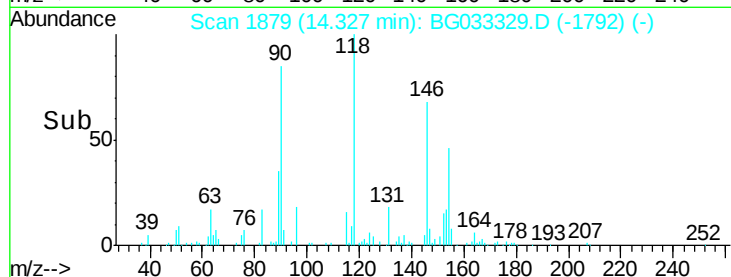
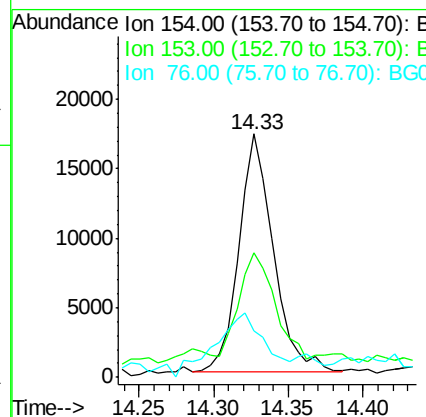
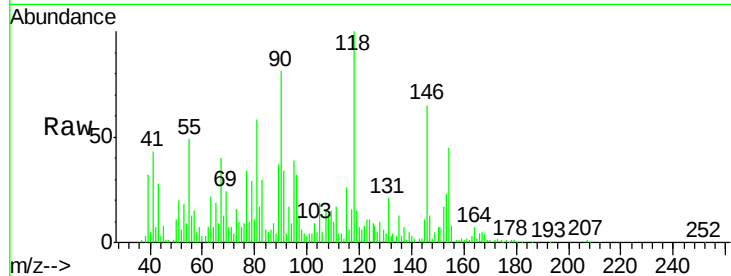




#45  
 1,1'-Biphenyl  
 Concen: 2.074 ng  
 RT: 14.33 min Scan# 1879  
 Delta R.T. -0.02 min  
 Lab File: BG033329.D  
 Acq: 26 Mar 2018 14:54

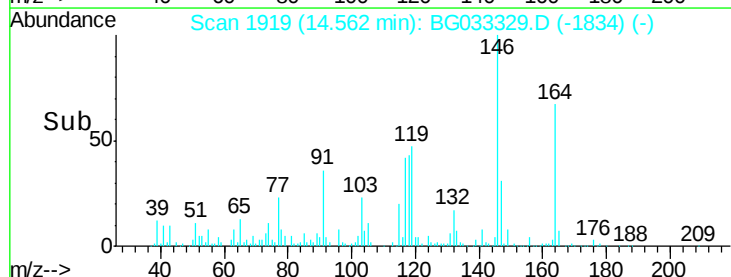
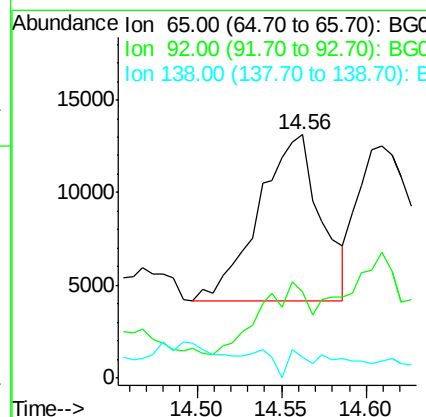
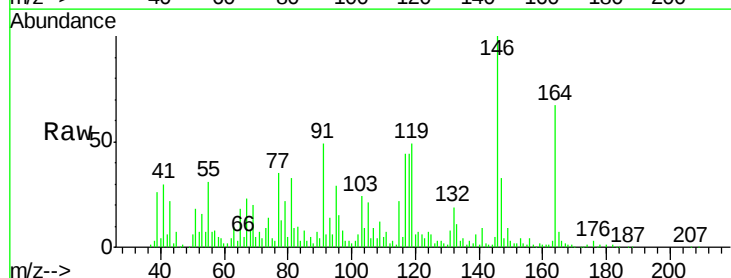
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PR-MW-01-031918

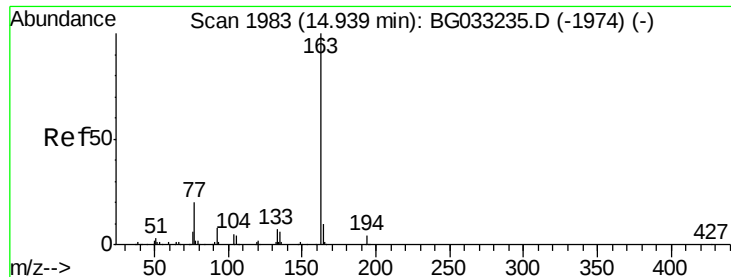
Tgt Ion: 154 Resp: 27206  
 Ion Ratio Lower Upper  
 154 100  
 153 51.4 19.8 59.8  
 76 19.3 0.0 31.9



#47  
 2-Nitroaniline  
 Concen: 5.994 ng  
 RT: 14.56 min Scan# 1919  
 Delta R.T. -0.03 min  
 Lab File: BG033329.D  
 Acq: 26 Mar 2018 14:54

Tgt Ion: 65 Resp: 22710  
 Ion Ratio Lower Upper  
 65 100  
 92 35.5 54.6 82.0#  
 138 8.4 72.9 109.3#





#49

Dimethylphthalate

Concen: 5.075 ng

RT: 14.91 min Scan# 1979

Delta R.T. -0.02 min

Lab File: BG033329.D

Acq: 26 Mar 2018 14:54

Instrument :

BNA\_G

ClientSampleId :

PR-MW-01-031918

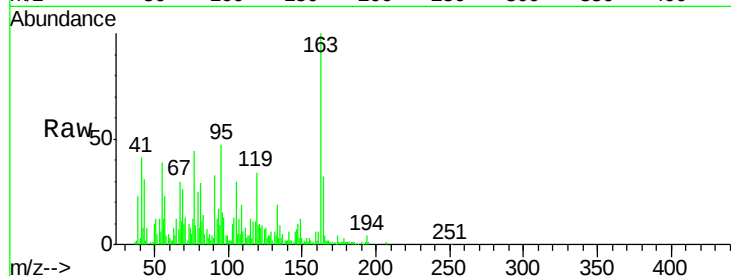
Tgt Ion:163 Resp: 75409

Ion Ratio Lower Upper

163 100

194 3.8 3.4 5.2

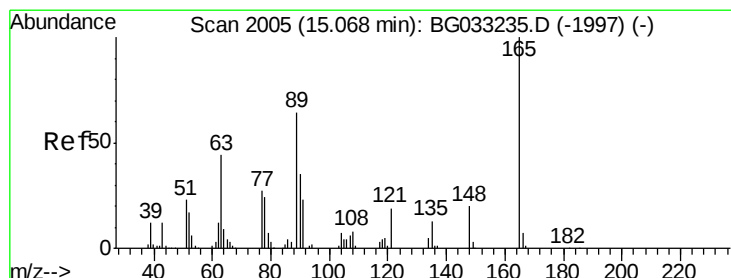
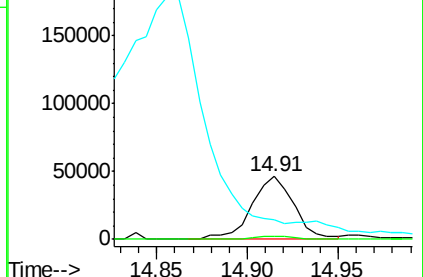
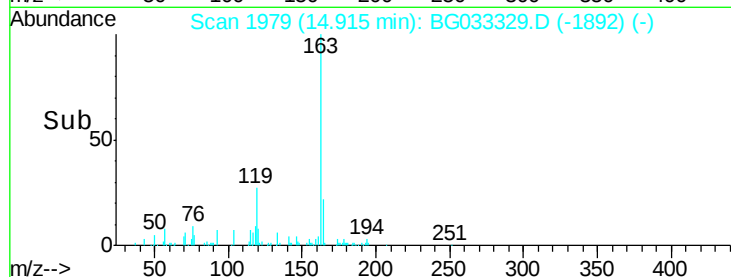
164 31.7 8.2 12.4#



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



#50

2,6-Dinitrotoluene

Concen: 4.105 ng

RT: 15.04 min Scan# 2001

Delta R.T. -0.02 min

Lab File: BG033329.D

Acq: 26 Mar 2018 14:54

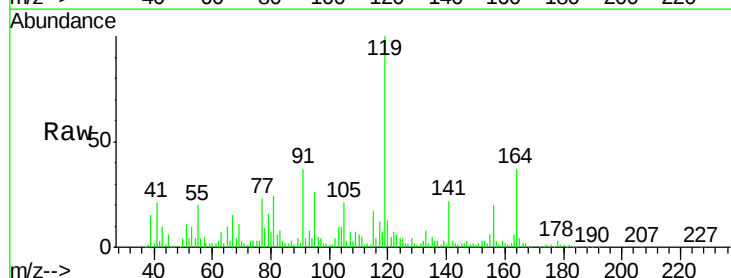
Tgt Ion:165 Resp: 12472

Ion Ratio Lower Upper

165 100

63 165.8 52.7 79.1#

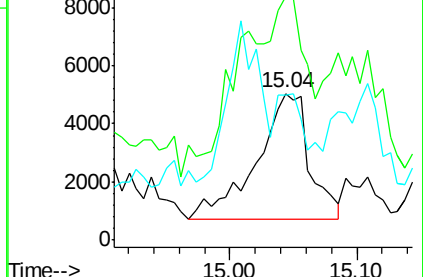
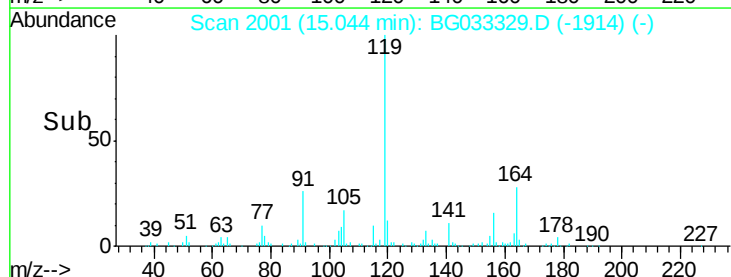
89 98.4 49.2 73.8#

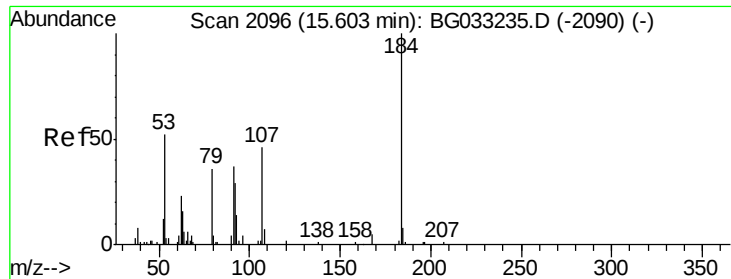


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BG

Ion 89.00 (88.70 to 89.70): BG





#53

2,4-Dinitrophenol

Concen: 7.726 ng

RT: 15.60 min Scan# 2096

Delta R.T. -0.00 min

Lab File: BG033329.D

Acq: 26 Mar 2018 14:54

Instrument :

BNA\_G

ClientSampleId :

PR-MW-01-031918

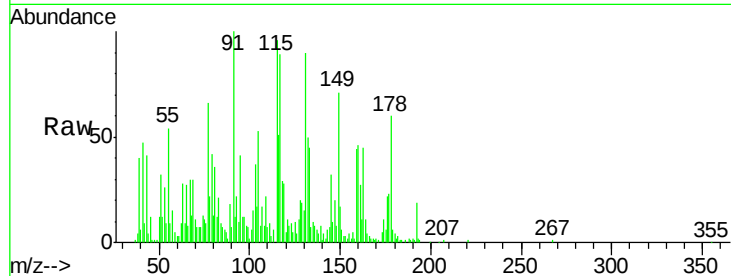
Tgt Ion:184 Resp: 144

Ion Ratio Lower Upper

184 100

63 4645.3 59.8 89.8#

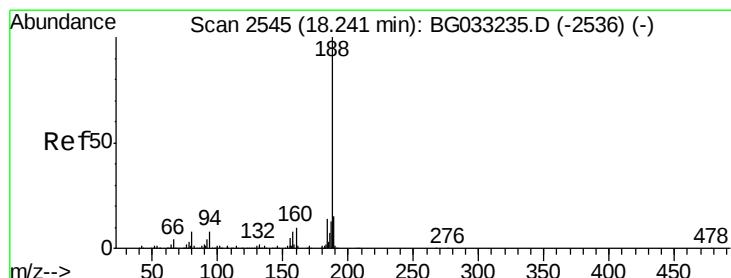
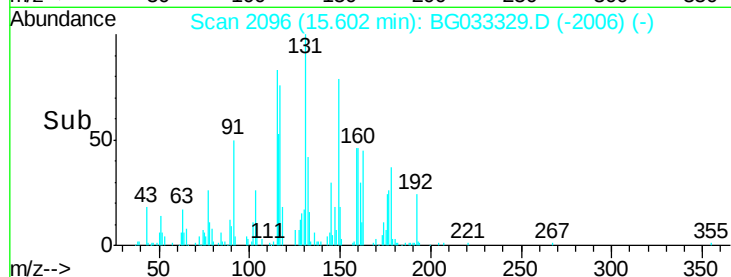
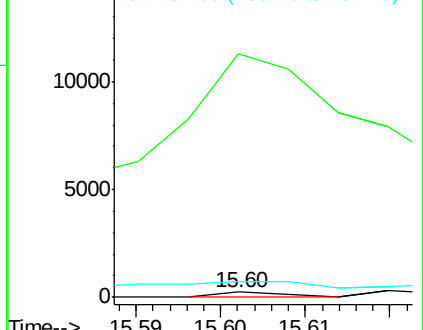
154 311.9 101.8 152.8#



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



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 18.22 min Scan# 2541

Delta R.T. -0.02 min

Lab File: BG033329.D

Acq: 26 Mar 2018 14:54

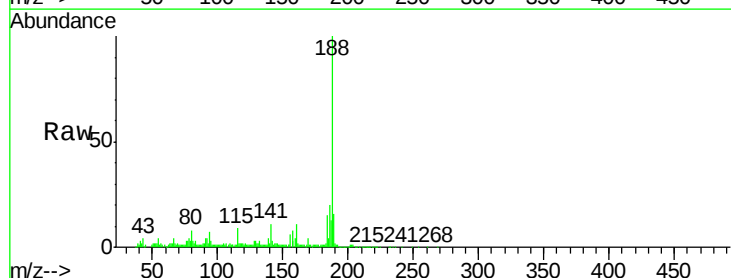
Tgt Ion:188 Resp: 371867

Ion Ratio Lower Upper

188 100

94 7.0 6.9 10.3

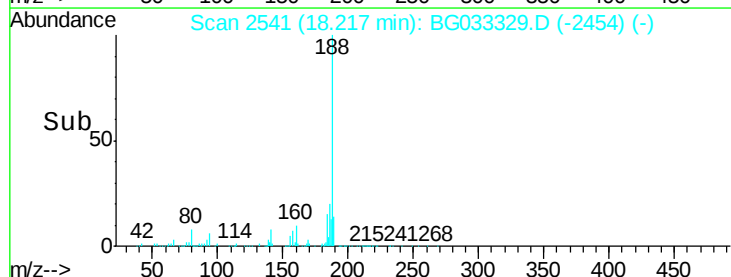
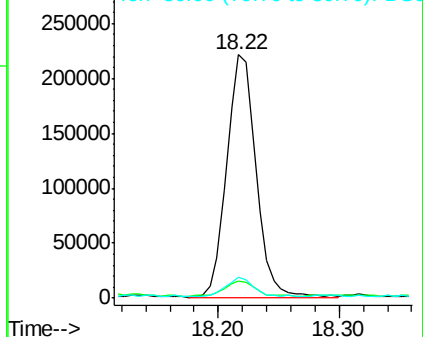
80 8.5 7.7 11.5

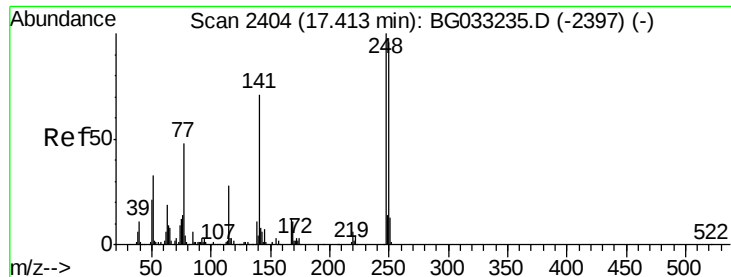


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

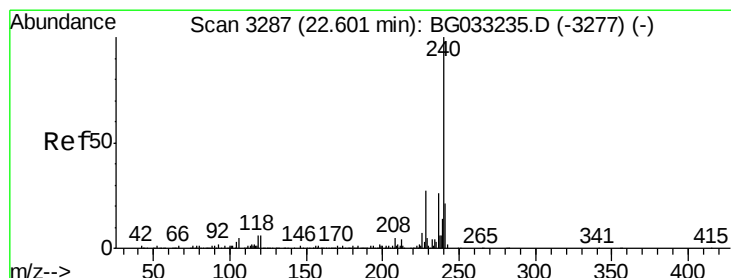
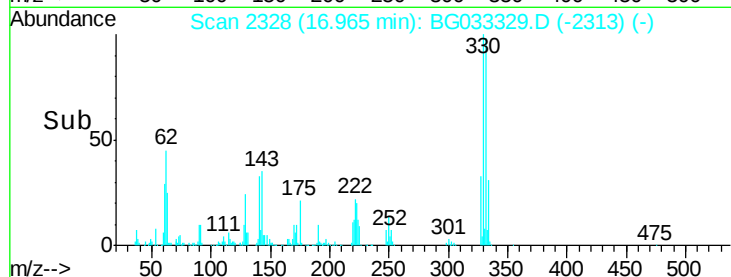
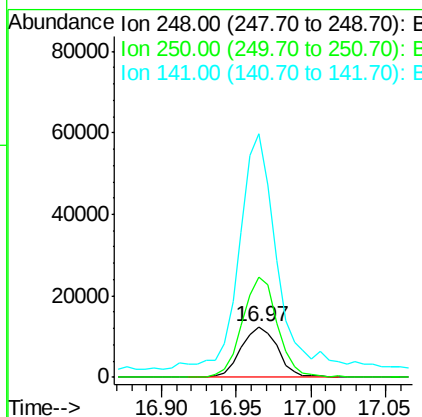
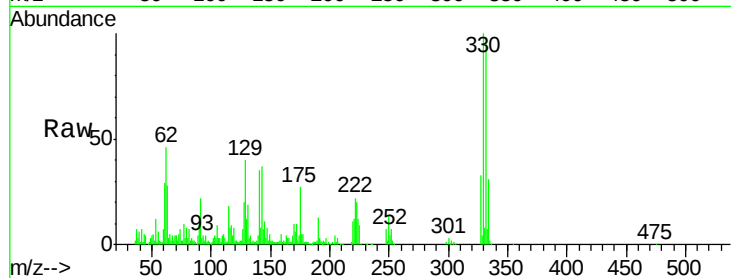




#66  
4-Bromophenyl-phenylether  
Concen: 4.790 ng  
RT: 16.97 min Scan# 2328  
Delta R.T. -0.44 min  
Lab File: BG033329.D  
Acq: 26 Mar 2018 14:54

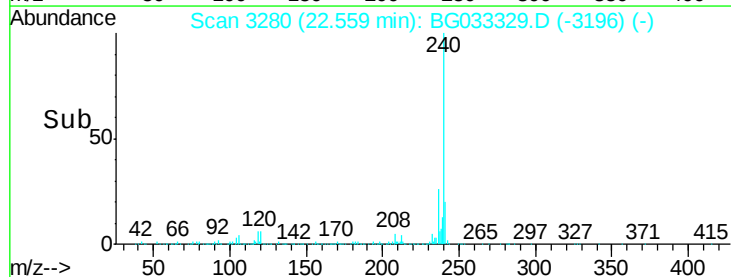
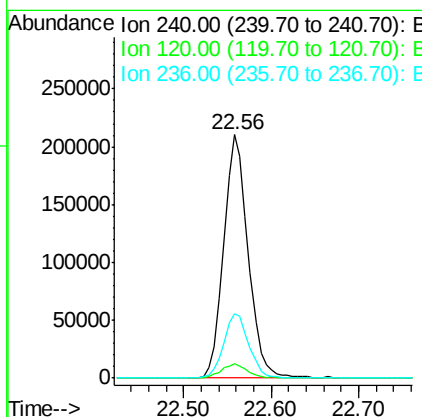
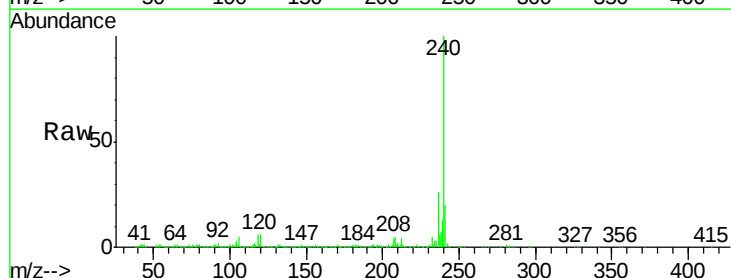
Instrument :  
BNA\_G  
ClientSampleId :  
PR-MW-01-031918

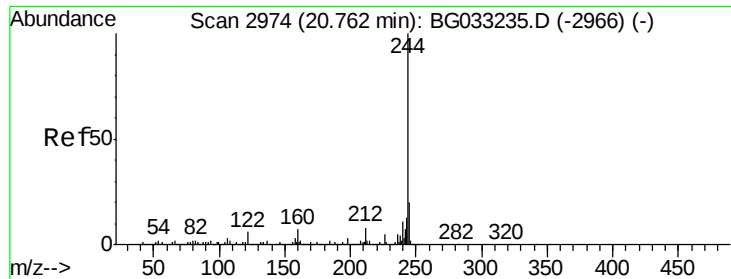
Tgt Ion:248 Resp: 20918  
Ion Ratio Lower Upper  
248 100  
250 196.9 77.1 115.7#  
141 479.9 50.8 76.2#



#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 22.56 min Scan# 3280  
Delta R.T. -0.04 min  
Lab File: BG033329.D  
Acq: 26 Mar 2018 14:54

Tgt Ion:240 Resp: 403558  
Ion Ratio Lower Upper  
240 100  
120 6.0 6.8 10.2#  
236 26.3 20.9 31.3





#78

Terphenyl-d14

Concen: 75.916 ng

RT: 20.74 min Scan# 2970

Delta R.T. -0.02 min

Lab File: BG033329.D

Acq: 26 Mar 2018 14:54

Instrument :

BNA\_G

ClientSampleId :

PR-MW-01-031918

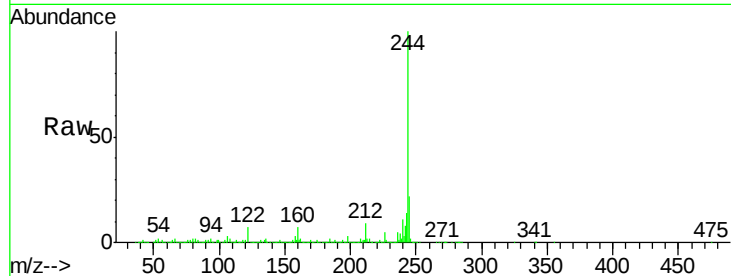
Tgt Ion:244 Resp: 1432537

Ion Ratio Lower Upper

244 100

212 8.5 5.8 8.8

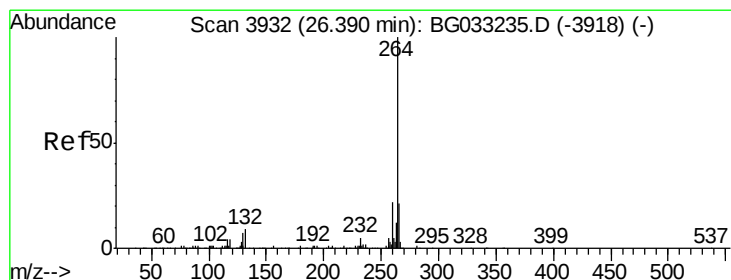
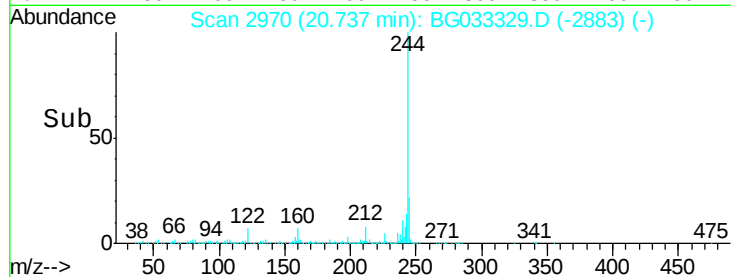
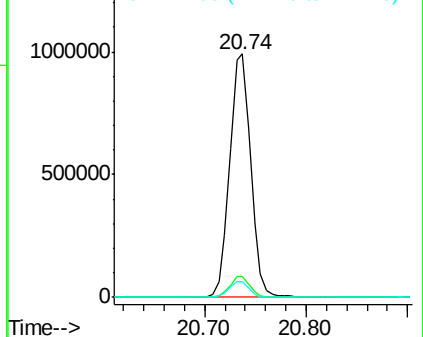
122 6.7 7.0 10.4#



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

Perylene-d12

Concen: 20.000 ng

RT: 26.32 min Scan# 3921

Delta R.T. -0.06 min

Lab File: BG033329.D

Acq: 26 Mar 2018 14:54

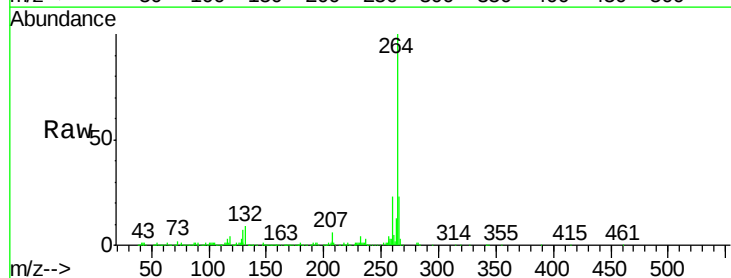
Tgt Ion:264 Resp: 437322

Ion Ratio Lower Upper

264 100

260 23.3 17.4 26.0

265 22.5 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

