

Data Path : U:\HPCHEM1\BNA G\DATA\BG020518\  
 Data File : BG032555.D  
 Acq On : 6 Feb 2018 4:25  
 Operator : SJ/JU  
 Sample : J1444-03  
 Misc : MDL8PPM  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Feb 06 06:22:41 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG012918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 29 15:32:55 2018  
 Response via : Initial Calibration

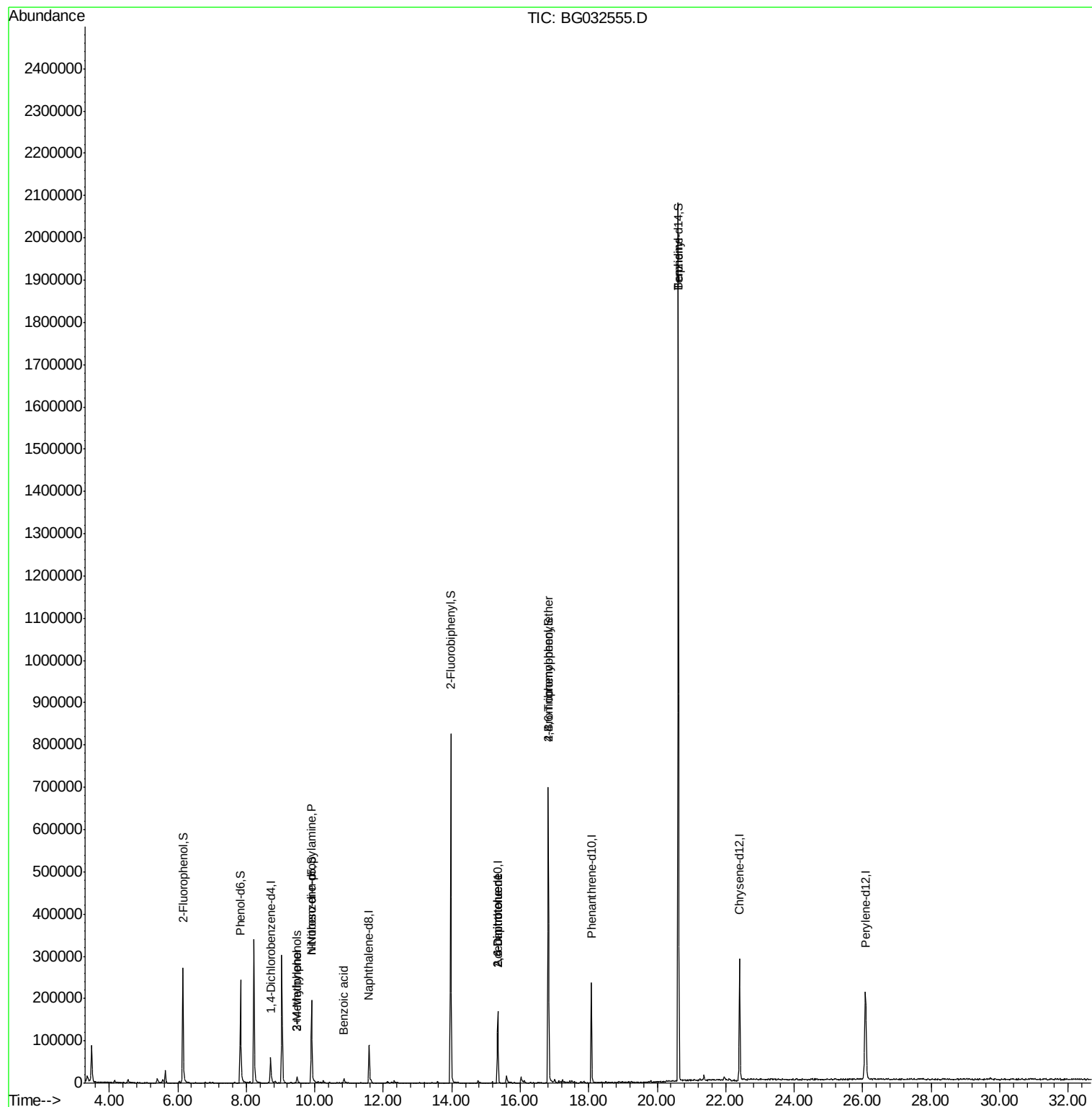
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.71  | 152  | 22739    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 11.58 | 136  | 99427    | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 15.34 | 164  | 65826    | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 18.07 | 188  | 184168   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12               | 22.40 | 240  | 223873   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 26.07 | 264  | 295560   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.15  | 112  | 149588   | 132.13 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.83  | 99   | 165035   | 109.24 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.90  | 82   | 136420   | 85.70  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 16.82 | 330  | 180046   | 143.69 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 13.97 | 172  | 499908   | 90.26  | ng    | -0.02    |
| 78) Terphenyl-d14              | 20.61 | 244  | 1123283  | 107.48 | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 17) 2-Methylphenol             | 9.47  | 107  | 10574    | 9.075  | ng    | # 70     |
| 19) n-Nitroso-di-n-propylamine | 9.90  | 70   | 19530    | 19.498 | ng    | # 75     |
| 20) 3+4-Methylphenols          | 9.47  | 107  | 10574    | 6.470  | ng    | # 85     |
| 32) Benzoic acid               | 10.84 | 122  | 888      | 8.039  | ng    | # 81     |
| 50) 2,6-Dinitrotoluene         | 15.34 | 165  | 8980     | 7.049  | ng    | # 18     |
| 56) 2,4-Dinitrotoluene         | 15.34 | 165  | 8980     | 4.951  | ng    | # 16     |
| 66) 4-Bromophenyl-phenylether  | 16.82 | 248  | 12811    | 4.695  | ng    | # 1      |
| 76) Benzidine                  | 20.61 | 184  | 16637    | 3.785  | ng    | # 89     |

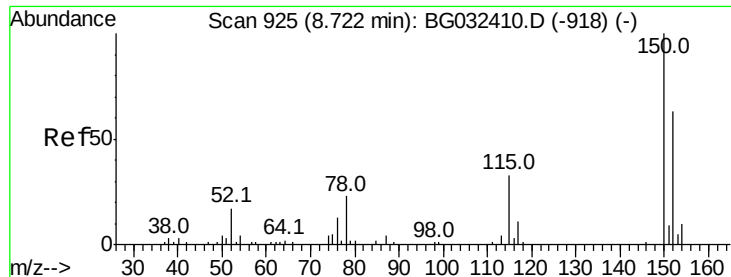
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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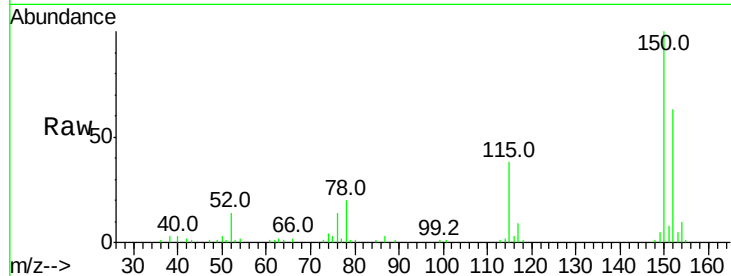


#1

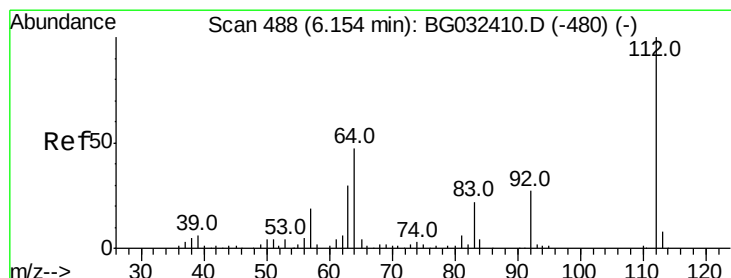
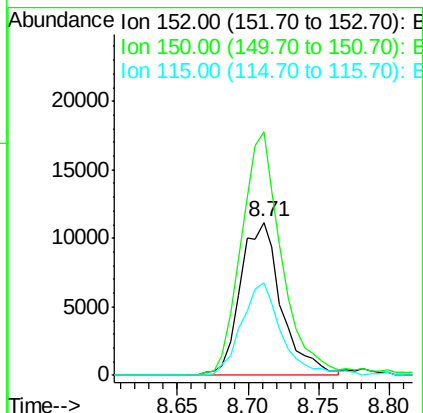
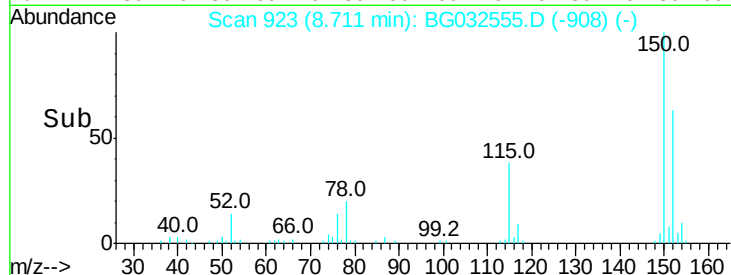
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.71 min Scan# 923  
Delta R.T. -0.01 min  
Lab File: BG032555.D  
Acq: 6 Feb 2018 4:25

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 22739  
Ion Ratio Lower Upper  
152 100  
150 159.4 126.6 189.8  
115 60.5 53.0 79.4



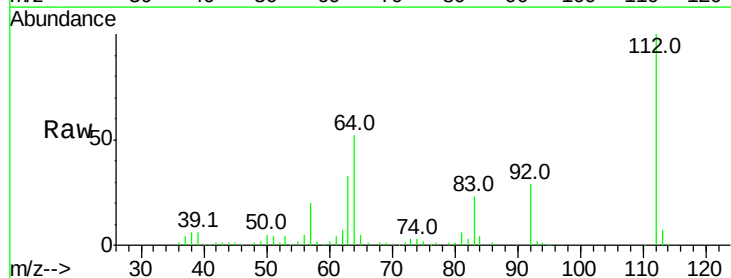
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



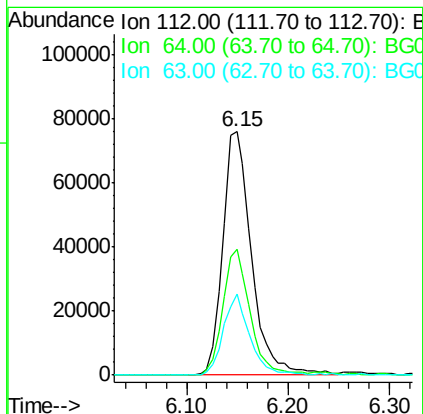
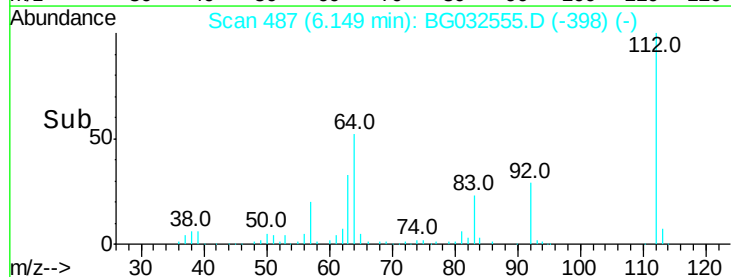
#5

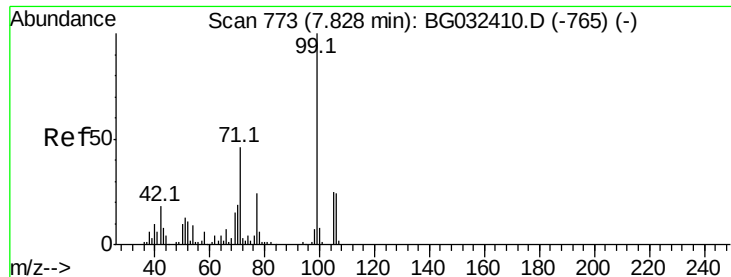
2-Fluorophenol  
Concen: 132.132 ng  
RT: 6.15 min Scan# 487  
Delta R.T. -0.00 min  
Lab File: BG032555.D  
Acq: 6 Feb 2018 4:25

Tgt Ion:112 Resp: 149588  
Ion Ratio Lower Upper  
112 100  
64 51.7 56.3 84.5#  
63 33.4 30.1 45.1



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: 109.244 ng

RT: 7.83 min Scan# 773

Delta R.T. 0.00 min

Lab File: BG032555.D

Acq: 6 Feb 2018 4:25

Instrument :

BNA\_G

ClientSampleId :

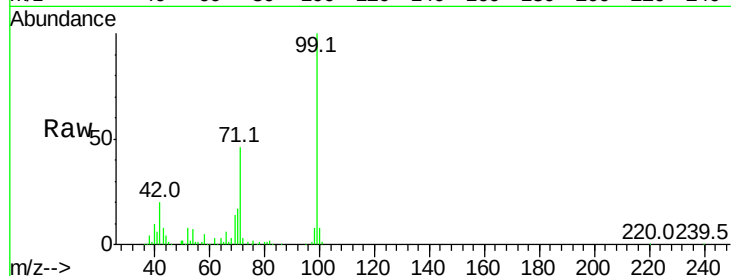
Tot Ion: 99 Resp: 165035

Ion Ratio Lower Upper

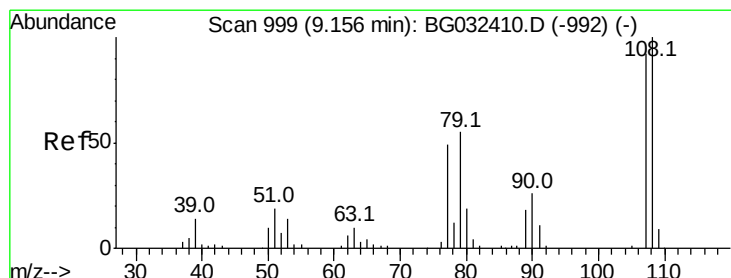
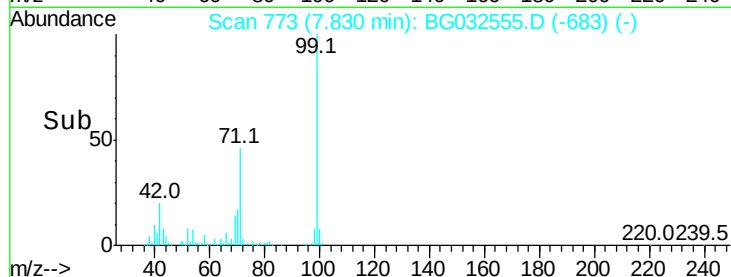
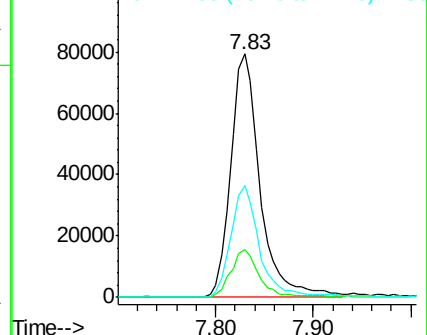
99 100

42 19.7 14.1 21.1

71 45.9 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



#17

2-Methylphenol

Concen: 9.075 ng

RT: 9.47 min Scan# 1053

Delta R.T. 0.32 min

Lab File: BG032555.D

Acq: 6 Feb 2018 4:25

Tgt Ion:107 Resp: 10574

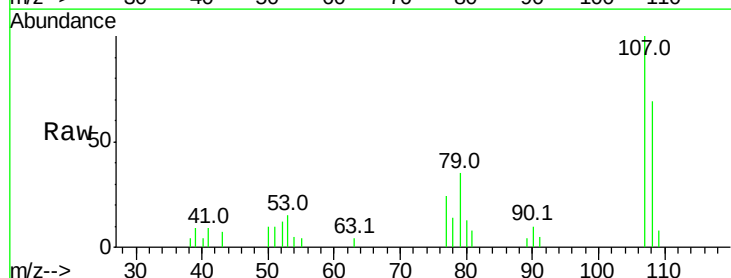
Ion Ratio Lower Upper

107 100

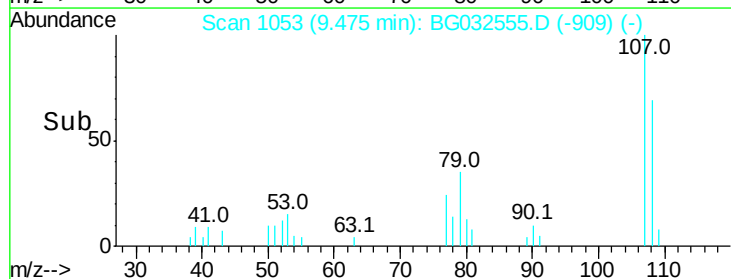
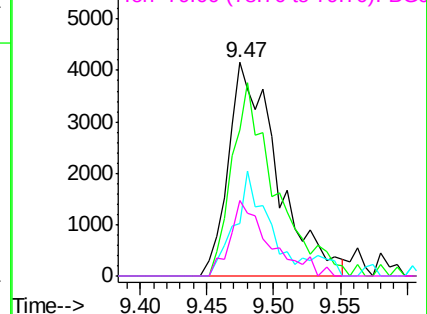
108 68.6 83.9 125.9#

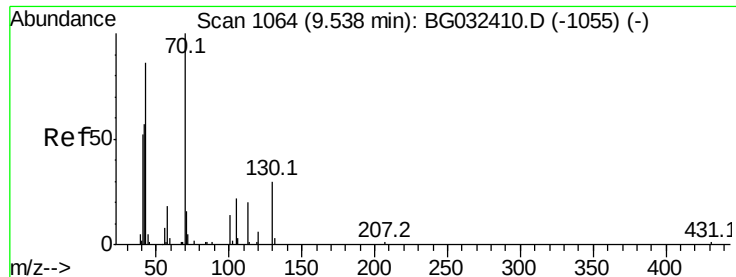
77 24.3 37.2 55.8#

79 35.4 36.2 54.2#



Abundance Ion 107.00 (106.70 to 107.70): BGC  
Ion 108.00 (107.70 to 108.70): BGC  
Ion 77.00 (76.70 to 77.70): BGC  
Ion 79.00 (78.70 to 79.70): BGC

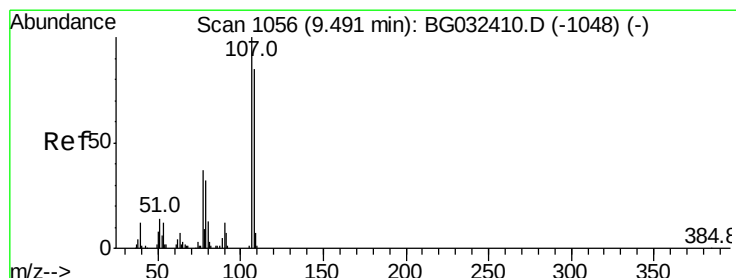
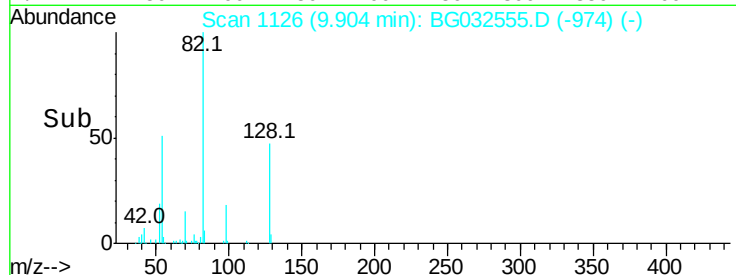
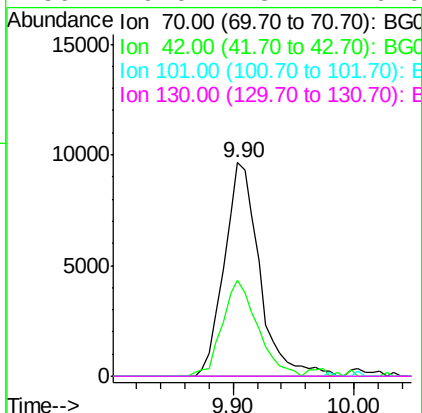
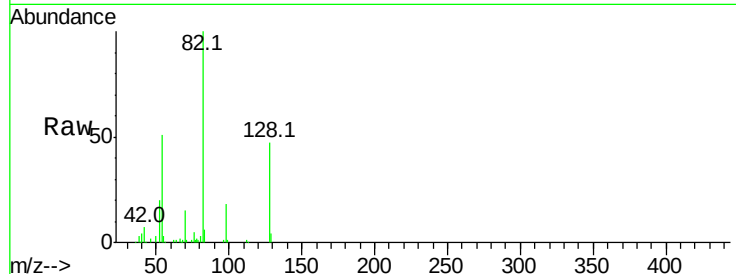




#19  
n-Nitroso-di-n-propylamine  
Concen: 19.498 ng  
RT: 9.90 min Scan# 1126  
Delta R.T. 0.37 min  
Lab File: BG032555.D  
Acq: 6 Feb 2018 4:25

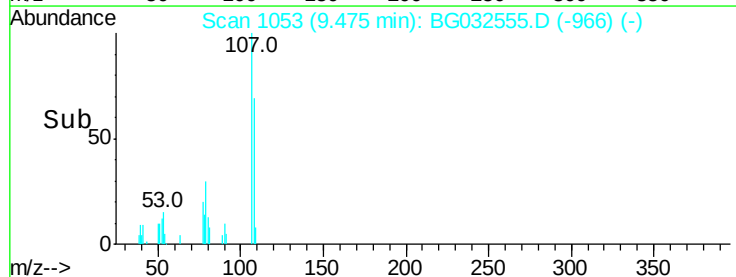
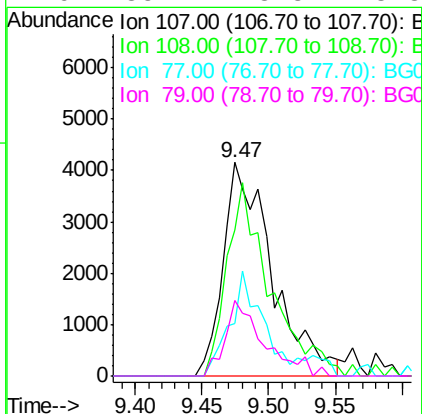
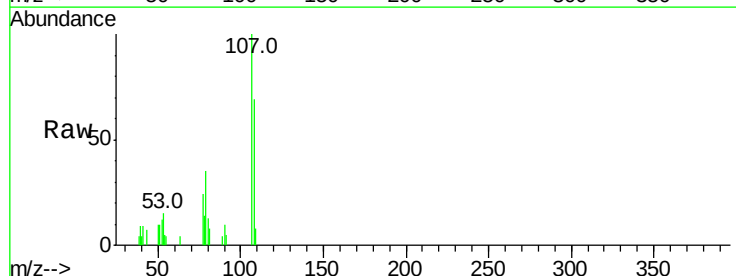
Instrument :  
BNA\_G  
ClientSampleId :

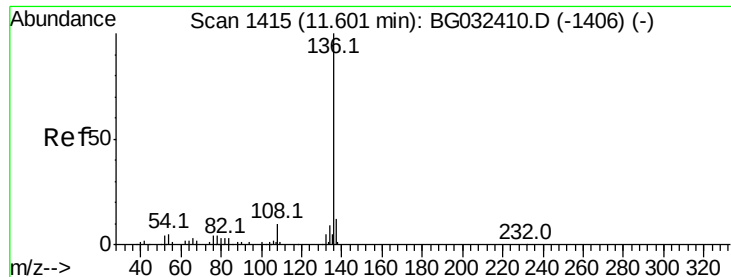
Tot Ion: 70 Resp: 19530  
Ion Ratio Lower Upper  
70 100  
42 45.2 49.1 73.7#  
101 0.0 8.5 12.7#  
130 0.0 13.4 20.0#



#20  
3+4-Methylphenols  
Concen: 6.470 ng  
RT: 9.47 min Scan# 1053  
Delta R.T. -0.02 min  
Lab File: BG032555.D  
Acq: 6 Feb 2018 4:25

Tgt Ion: 107 Resp: 10574  
Ion Ratio Lower Upper  
107 100  
108 68.6 61.6 101.6  
77 24.3 13.9 53.9  
79 35.4 8.8 48.8

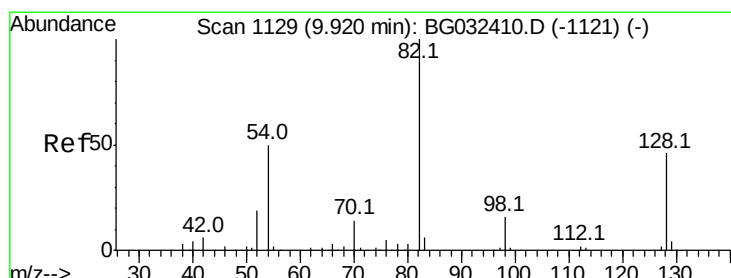
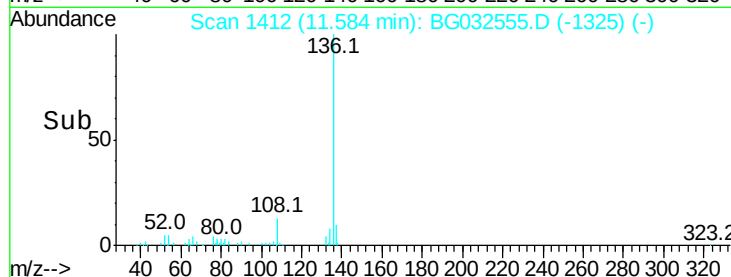
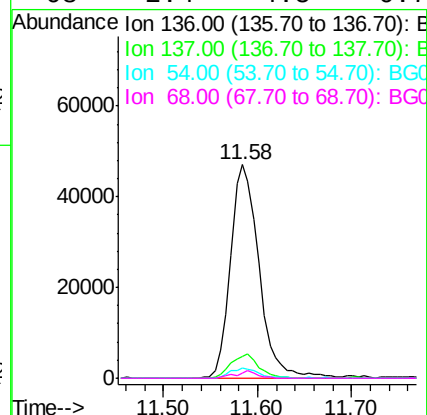
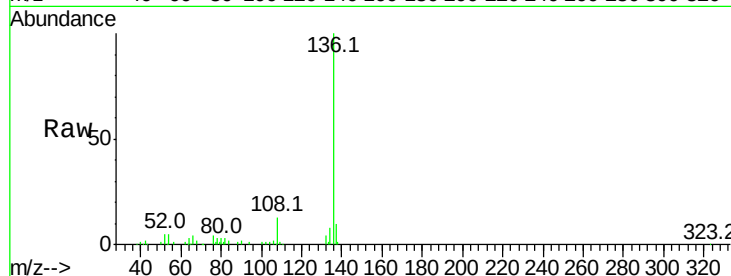




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.58 min Scan# 1412  
Delta R.T. -0.02 min  
Lab File: BG032555.D  
Acq: 6 Feb 2018 4:25

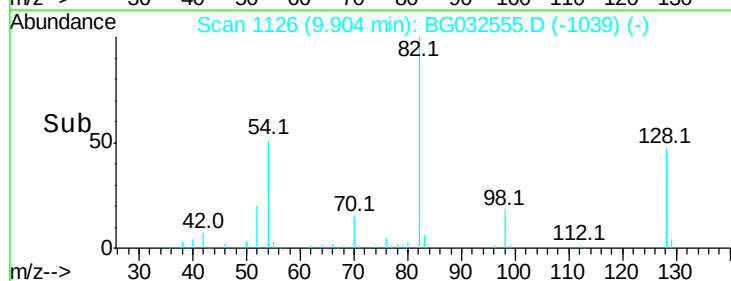
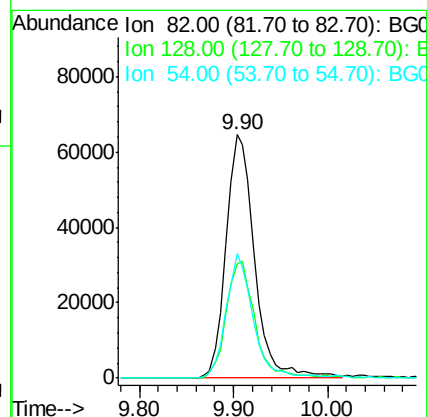
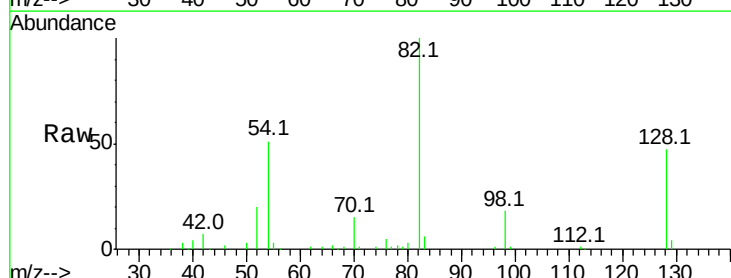
Instrument :  
BNA\_G  
ClientSampleId :

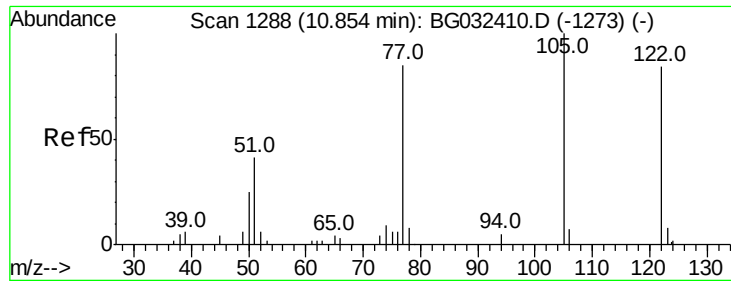
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 136   | Resp: | 99427 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 10.3  | 9.2   | 13.8  |
| 54       | 4.8   | 10.3  | 15.5# |
| 68       | 2.4   | 4.5   | 6.7#  |



#23  
Nitrobenzene-d5  
Concen: 85.700 ng  
RT: 9.90 min Scan# 1126  
Delta R.T. -0.02 min  
Lab File: BG032555.D  
Acq: 6 Feb 2018 4:25

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 136420 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 47.0  | 29.7  | 44.5#  |
| 54       | 51.2  | 43.1  | 64.7   |





#32

Benzoic acid

Concen: 8.039 ng

RT: 10.84 min Scan# 1285

Delta R.T. -0.02 min

Lab File: BG032555.D

Acq: 6 Feb 2018 4:25

Instrument :

BNA\_G

ClientSampleId :

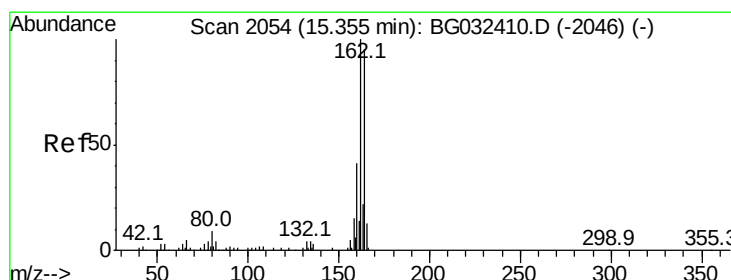
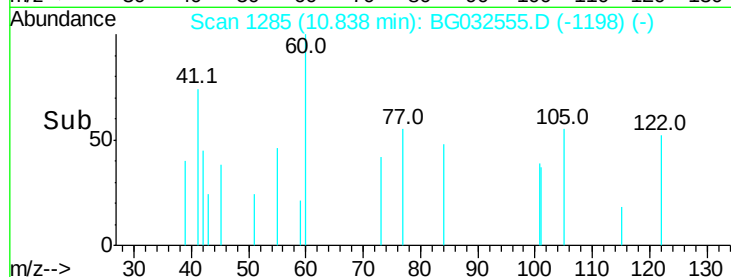
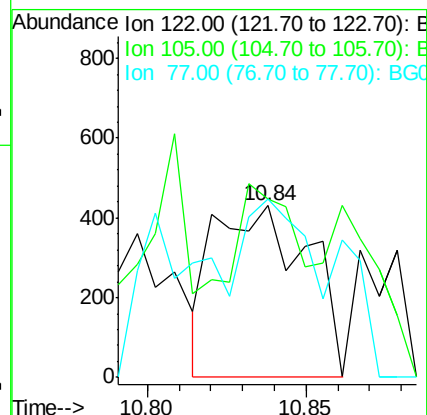
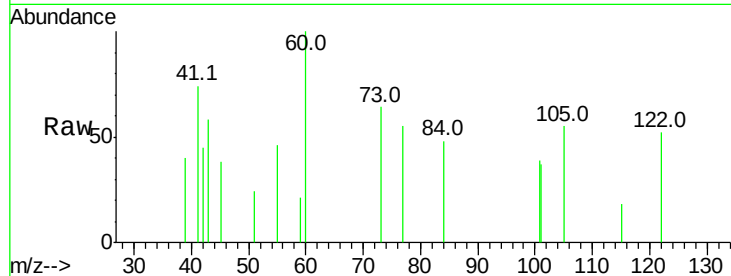
Tot Ion:122 Resp: 888

Ion Ratio Lower Upper

122 100

105 104.4 123.5 163.5#

77 104.2 85.7 125.7



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 15.34 min Scan# 2052

Delta R.T. -0.01 min

Lab File: BG032555.D

Acq: 6 Feb 2018 4:25

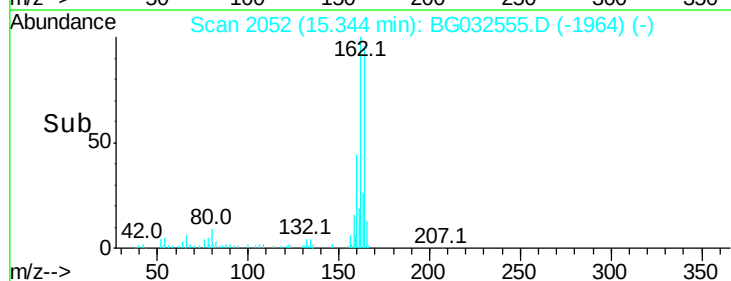
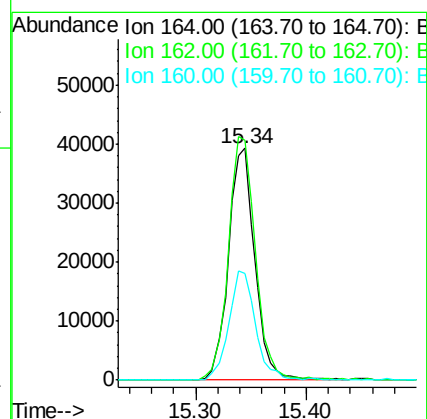
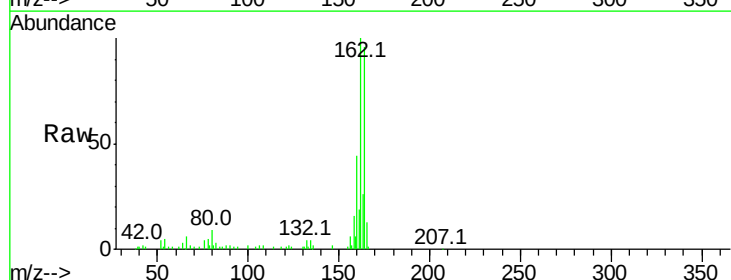
Tgt Ion:164 Resp: 65826

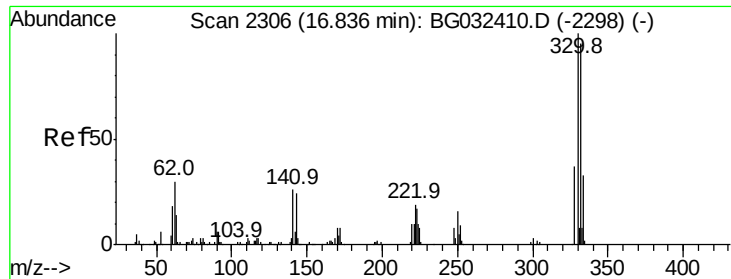
Ion Ratio Lower Upper

164 100

162 103.8 78.8 118.2

160 45.8 35.4 53.0

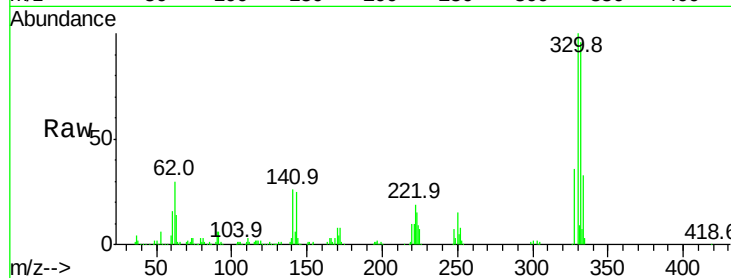




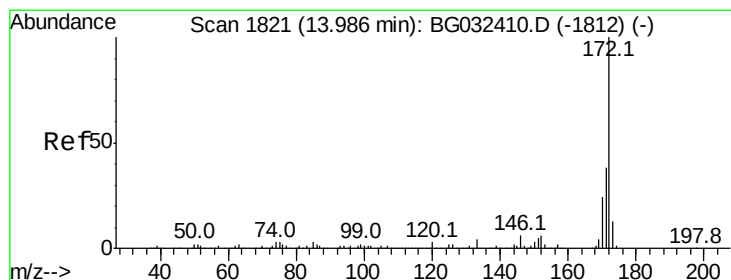
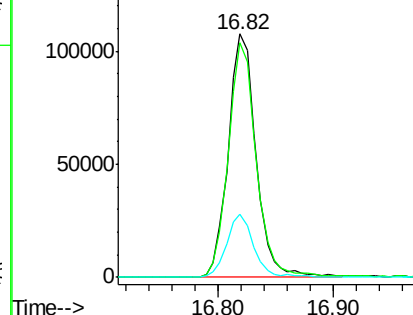
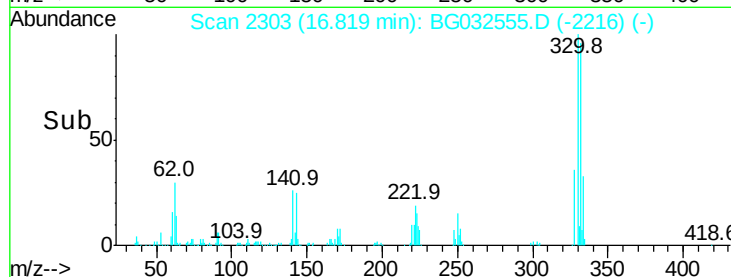
#41  
 2,4,6-Tribromophenol  
 Concen: 143.692 ng  
 RT: 16.82 min Scan# 2303  
 Delta R.T. -0.02 min  
 Lab File: BG032555.D  
 Acq: 6 Feb 2018 4:25

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:330 Resp: 180046  
 Ion Ratio Lower Upper  
 330 100  
 332 96.7 77.0 115.6  
 141 25.5 25.2 37.8

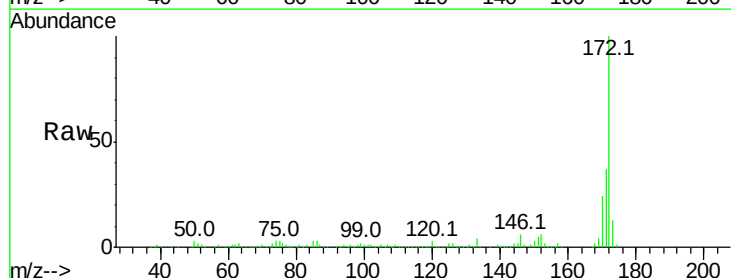


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

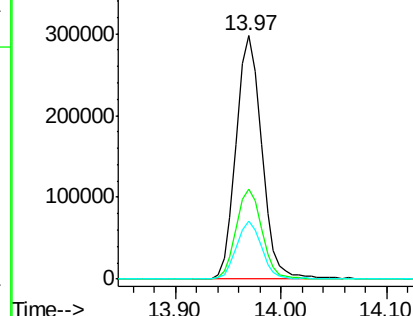
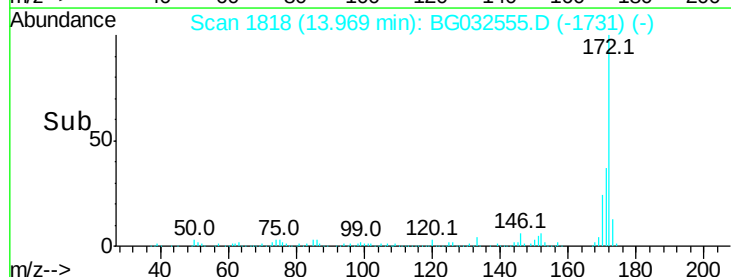


#44  
 2-Fluorobiphenyl  
 Concen: 90.264 ng  
 RT: 13.97 min Scan# 1818  
 Delta R.T. -0.02 min  
 Lab File: BG032555.D  
 Acq: 6 Feb 2018 4:25

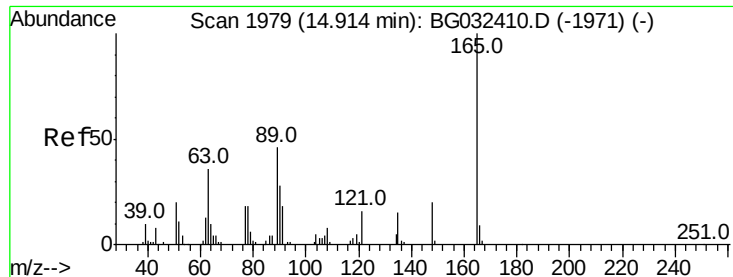
Tgt Ion:172 Resp: 499908  
 Ion Ratio Lower Upper  
 172 100  
 171 37.1 30.0 45.0  
 170 23.6 19.5 29.3



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



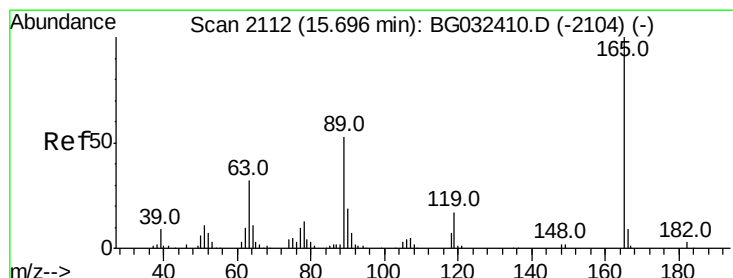
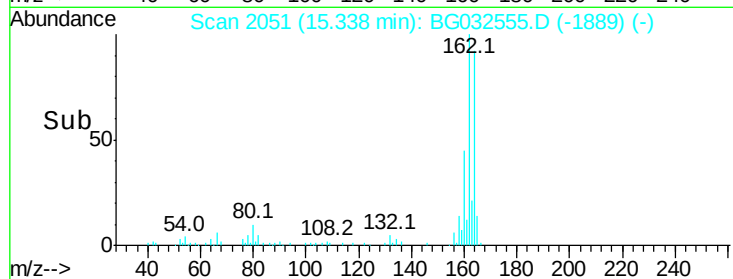
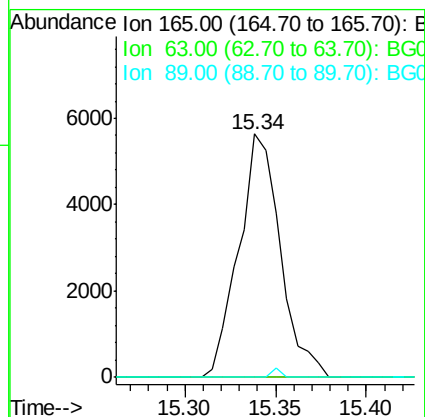
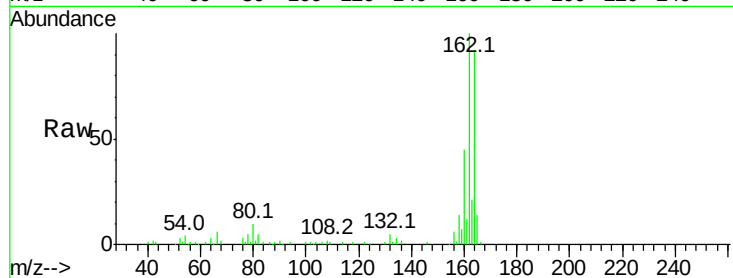




#50  
 2,6-Dinitrotoluene  
 Concen: 7.049 ng  
 RT: 15.34 min Scan# 2051  
 Delta R.T. 0.42 min  
 Lab File: BG032555.D  
 Acq: 6 Feb 2018 4:25

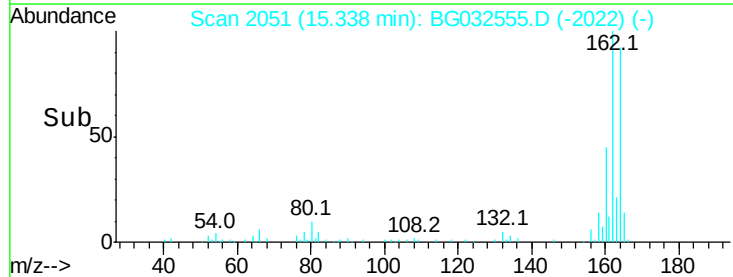
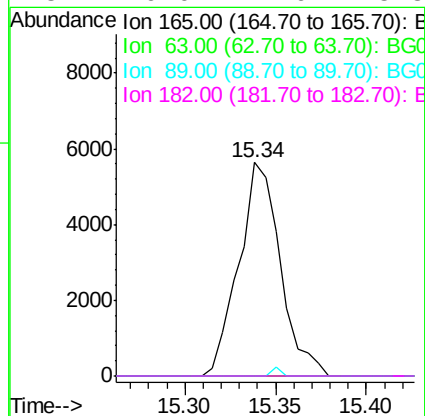
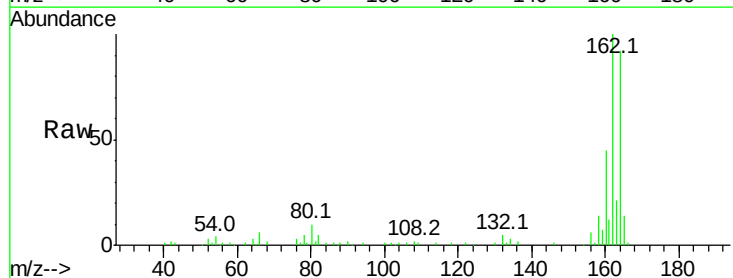
Instrument :  
 BNA\_G  
 ClientSampleId :

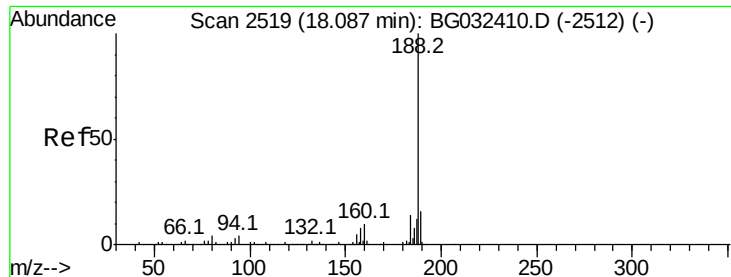
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 52.7  | 79.1# |
| 89      | 0.0   | 49.2  | 73.8# |



#56  
 2,4-Dinitrotoluene  
 Concen: 4.951 ng  
 RT: 15.34 min Scan# 2051  
 Delta R.T. -0.36 min  
 Lab File: BG032555.D  
 Acq: 6 Feb 2018 4:25

| Tgt 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#   |

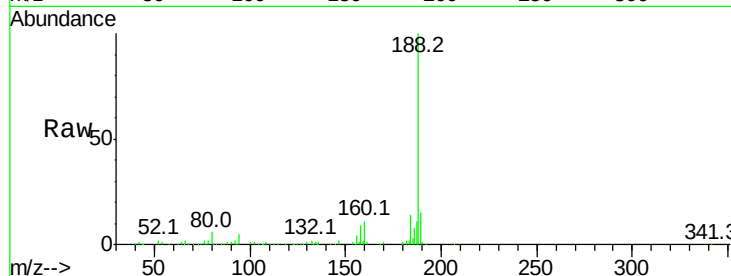




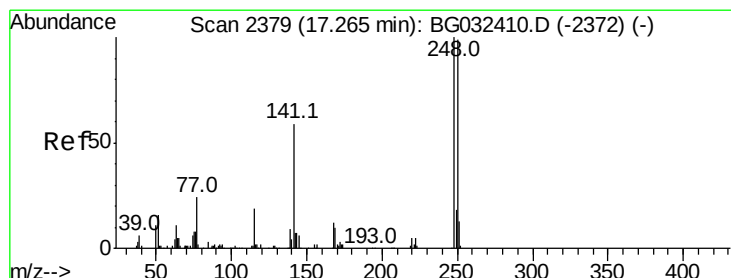
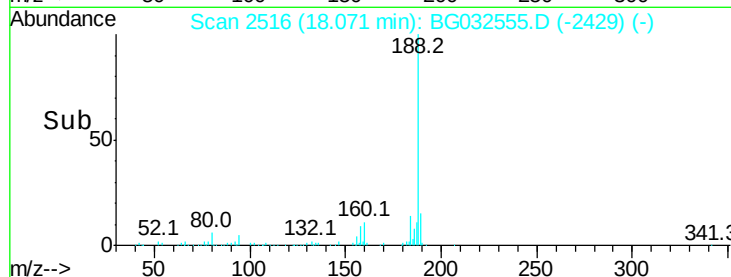
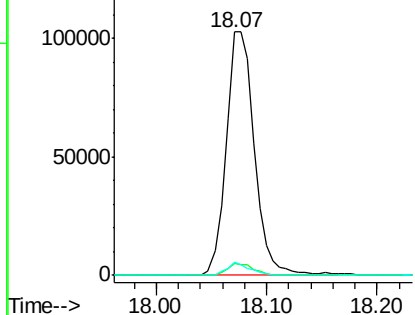
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 18.07 min Scan# 2516  
 Delta R.T. -0.02 min  
 Lab File: BG032555.D  
 Acq: 6 Feb 2018 4:25

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 4.8   | 6.9   | 10.3# |
| 80      | 5.5   | 7.7   | 11.5# |

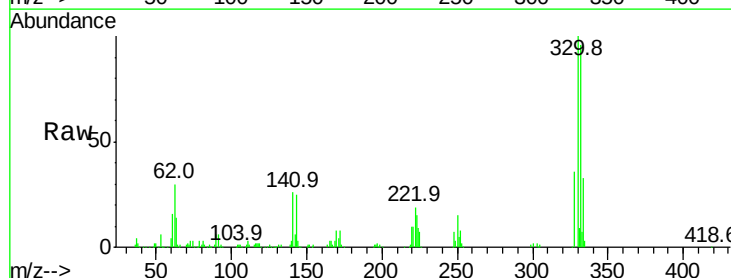


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BGO  
 Ion 80.00 (79.70 to 80.70): BGO

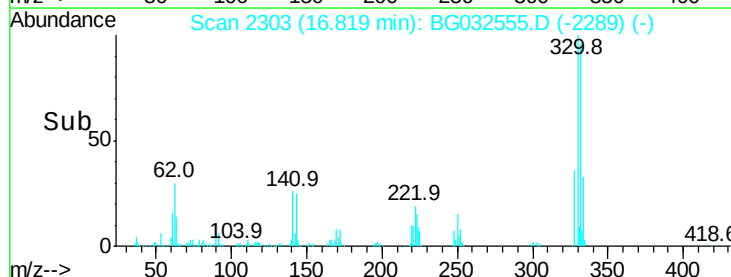
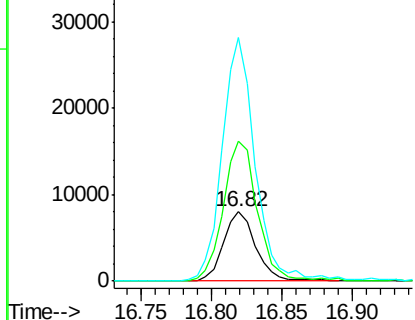


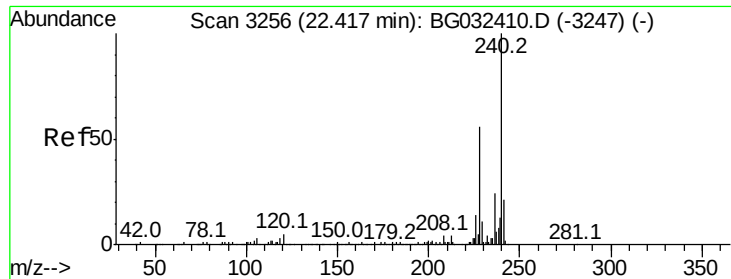
#66  
 4-Bromophenyl-phenylether  
 Concen: 4.695 ng  
 RT: 16.82 min Scan# 2303  
 Delta R.T. -0.45 min  
 Lab File: BG032555.D  
 Acq: 6 Feb 2018 4:25

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 202.0 | 77.1  | 115.7# |
| 141     | 352.7 | 50.8  | 76.2#  |



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





#75

Chrysene-d12

Concen: 20.000 ng

RT: 22.40 min Scan# 3253

Delta R.T. -0.02 min

Lab File: BG032555.D

Acq: 6 Feb 2018 4:25

Instrument :

BNA\_G

ClientSampleId :

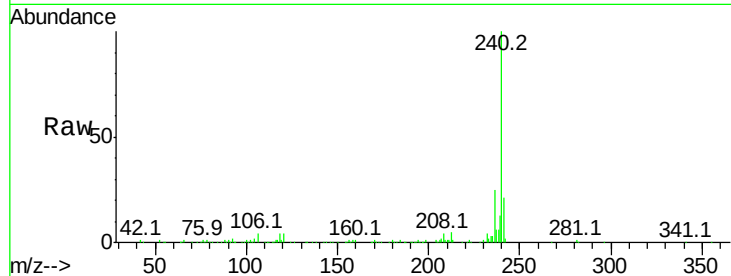
Tot Ion:240 Resp: 223873

Ion Ratio Lower Upper

240 100

120 4.1 6.8 10.2#

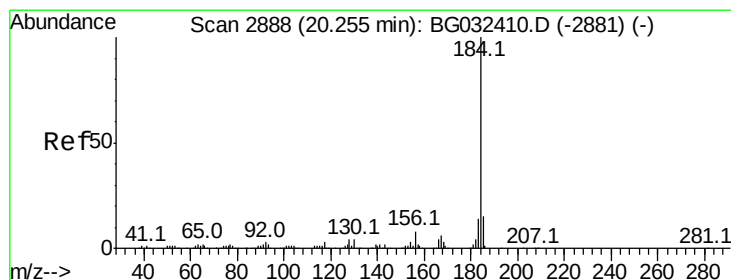
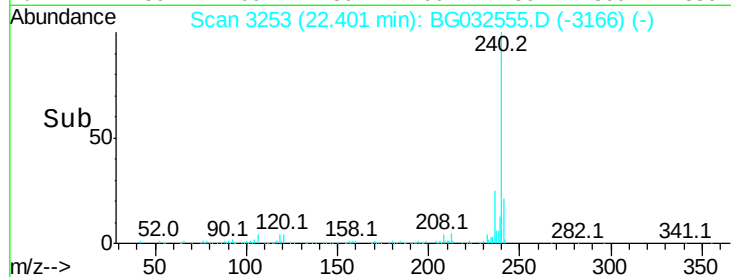
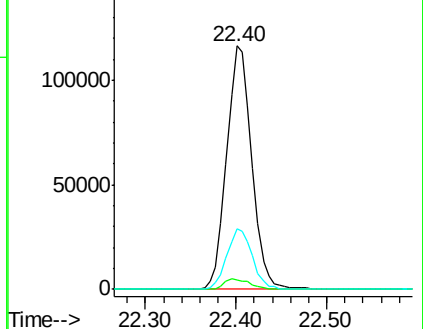
236 24.9 20.9 31.3



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



#76

Benzidine

Concen: 3.785 ng

RT: 20.61 min Scan# 2949

Delta R.T. 0.36 min

Lab File: BG032555.D

Acq: 6 Feb 2018 4:25

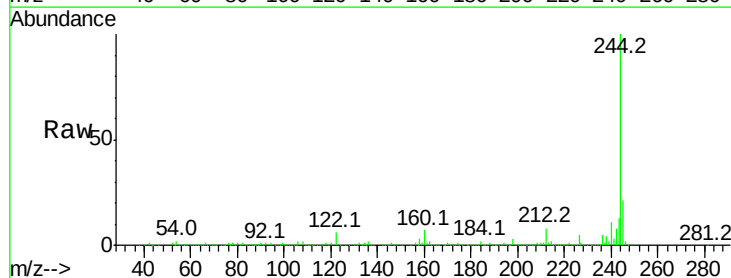
Tgt Ion:184 Resp: 16637

Ion Ratio Lower Upper

184 100

185 15.5 11.1 16.7

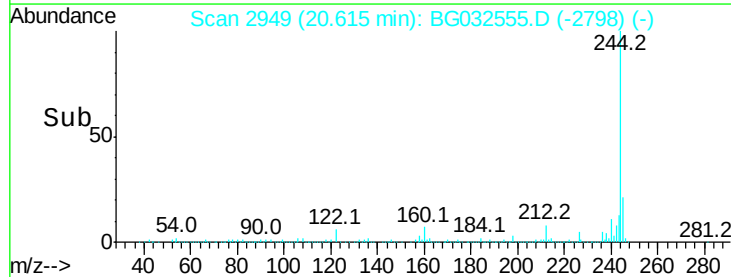
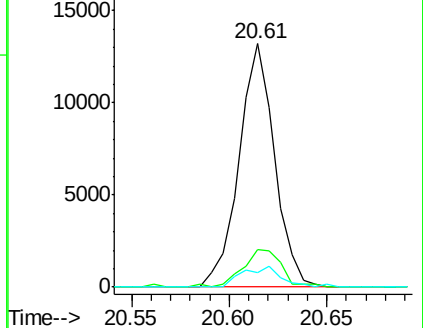
183 6.1 10.6 16.0#

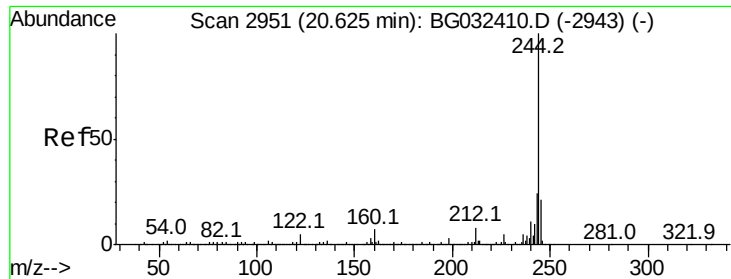


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

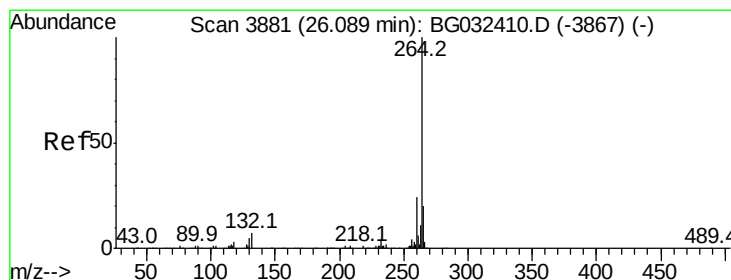
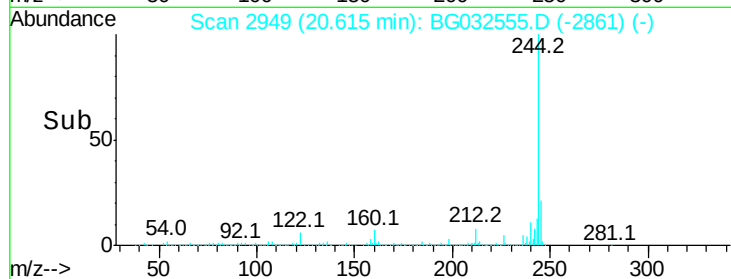
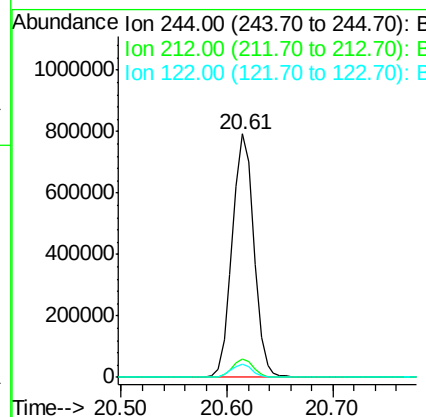
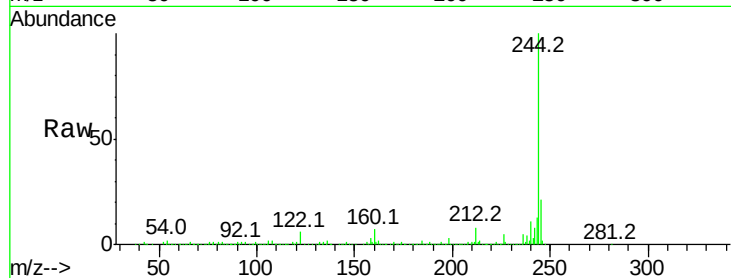




#78  
 Terphenyl-d14  
 Concen: 107.479 ng  
 RT: 20.61 min Scan# 2949  
 Delta R.T. -0.01 min  
 Lab File: BG032555.D  
 Acq: 6 Feb 2018 4:25

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:244 Resp: 1123283  
 Ion Ratio Lower Upper  
 244 100  
 212 7.7 5.8 8.8  
 122 5.5 7.0 10.4#



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 26.07 min Scan# 3878  
 Delta R.T. -0.02 min  
 Lab File: BG032555.D  
 Acq: 6 Feb 2018 4:25

Tgt Ion:264 Resp: 295560  
 Ion Ratio Lower Upper  
 264 100  
 260 22.1 17.4 26.0  
 265 21.6 17.7 26.5

