

Data Path : Z:\HPCHEM1\BNA G\DATA\BG042518\  
 Data File : BG034014.D  
 Acq On : 26 Apr 2018 9:11  
 Operator : SJ/JU  
 Sample : J2543-02  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Apr 26 15:07:20 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Apr 19 13:56:22 2018  
 Response via : Initial Calibration

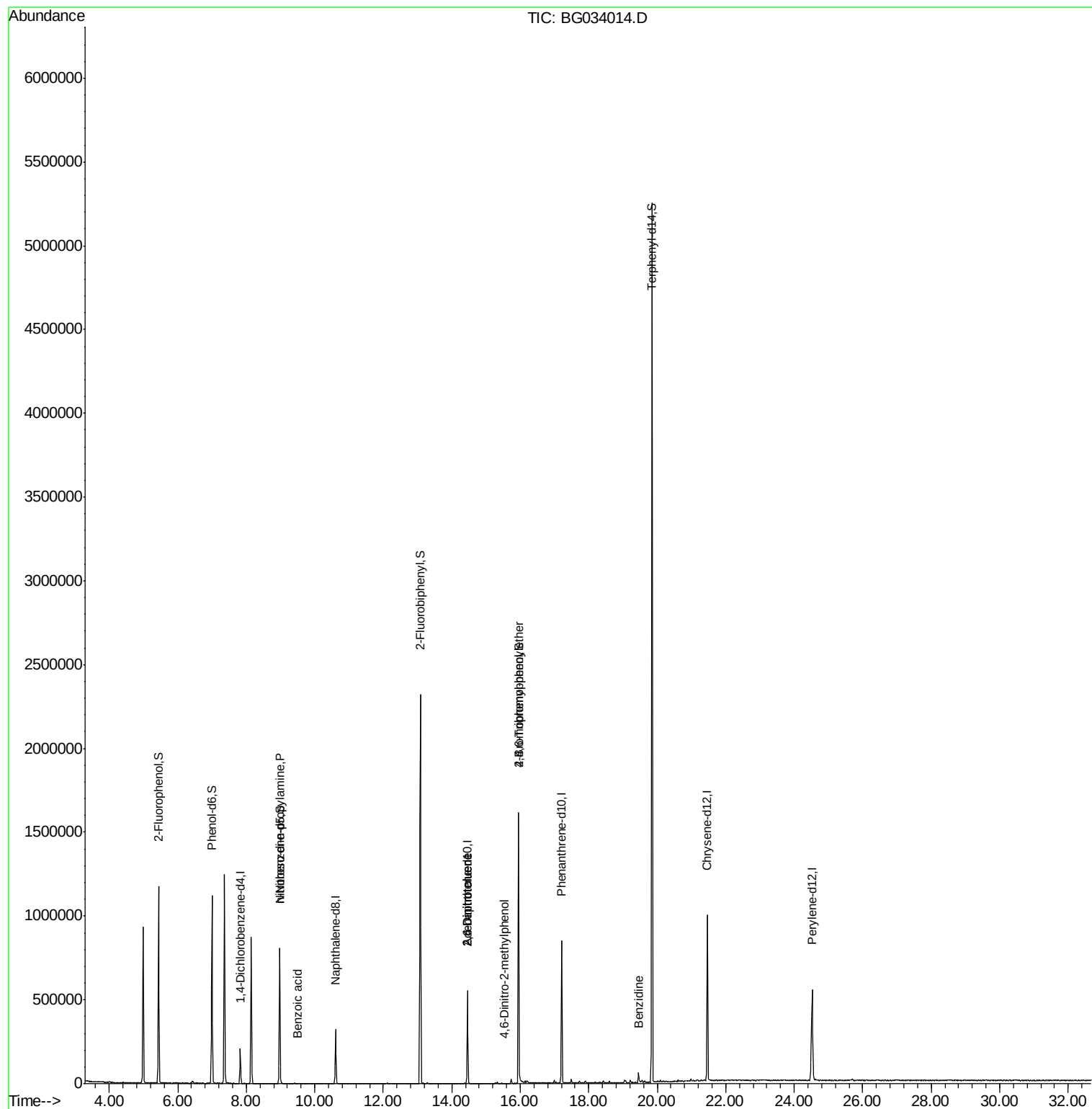
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.82  | 152  | 58611    | 20.00     | ng     | -0.01    |
| 21) Naphthalene-d8             | 10.61 | 136  | 272171   | 20.00     | ng     | -0.02    |
| 38) Acenaphthene-d10           | 14.46 | 164  | 191998   | 20.00     | ng     | -0.02    |
| 63) Phenanthrene-d10           | 17.21 | 188  | 520924   | 20.00     | ng     | -0.02    |
| 75) Chrysene-d12               | 21.46 | 240  | 581595   | 20.00     | ng     | -0.03    |
| 86) Perylene-d12               | 24.52 | 264  | 574879   | 20.00     | ng     | -0.04    |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 5) 2-Fluorophenol              | 5.44  | 112  | 492689   | 134.21    | ng     | 0.00     |
| 7) Phenol-d6                   | 7.00  | 99   | 632434   | 118.11    | ng     | 0.00     |
| 23) Nitrobenzene-d5            | 8.98  | 82   | 475619   | 99.45     | ng     | -0.01    |
| 41) 2,4,6-Tribromophenol       | 15.95 | 330  | 307440   | 137.25    | ng     | -0.02    |
| 44) 2-Fluorobiphenyl           | 13.08 | 172  | 1261660  | 96.53     | ng     | -0.02    |
| 78) Terphenyl-d14              | 19.84 | 244  | 2429890  | 93.86     | ng     | -0.02    |
| Target Compounds               |       |      |          |           |        |          |
| 9) Benzaldehyde                | 7.00  | 77   | 1073     | Below Cal | Qvalue |          |
| 19) n-Nitroso-di-n-propylamine | 8.98  | 70   | 66549    | 14.580 ng | #      | 5        |
| 32) Benzoic acid               | 9.49  | 122  | 58       | 5.098 ng  | #      | 1        |
| 50) 2,6-Dinitrotoluene         | 14.46 | 165  | 24824    | 7.756 ng  | #      | 20       |
| 56) 2,4-Dinitrotoluene         | 14.46 | 165  | 24824    | 5.833 ng  | #      | 18       |
| 64) 4,6-Dinitro-2-methylphenol | 15.54 | 198  | 76       | 6.515 ng  | #      | 29       |
| 66) 4-Bromophenyl-phenylether  | 15.95 | 248  | 15517    | 2.712 ng  | #      | 1        |
| 76) Benzydine                  | 19.46 | 184  | 37762    | 2.404 ng  | #      | 94       |

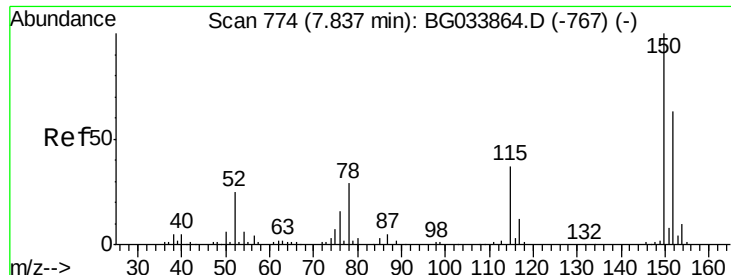
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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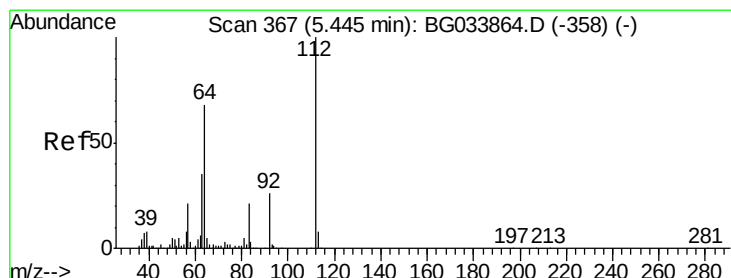
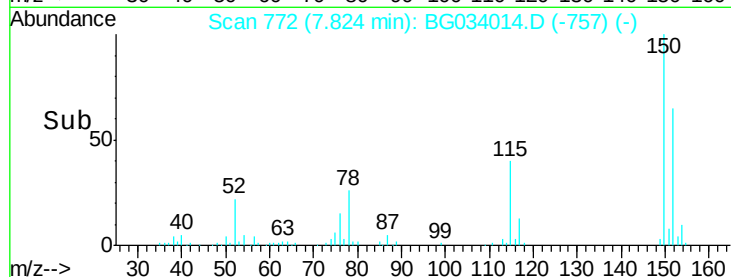
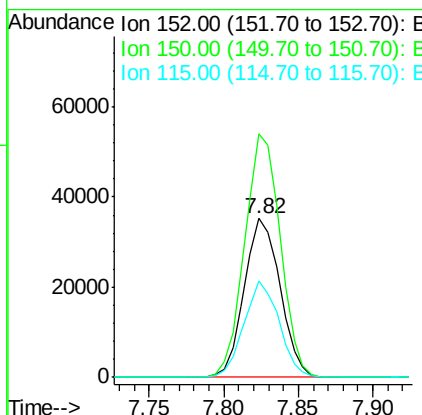
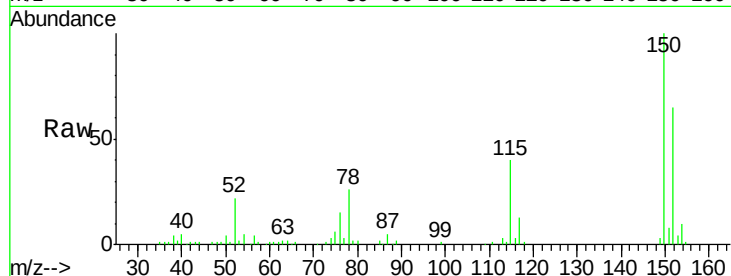


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.82 min Scan# 772  
Delta R.T. -0.01 min  
Lab File: BG034014.D  
Acq: 26 Apr 2018 9:11

Instrument :  
BNA\_G  
ClientSampleId :

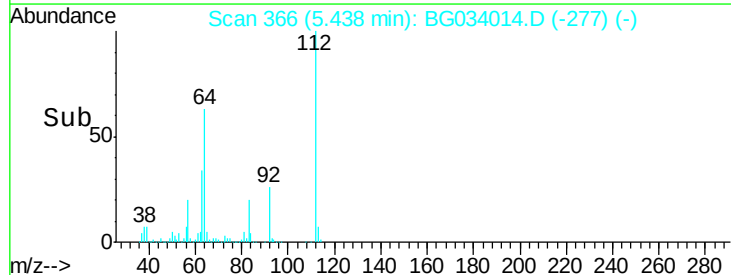
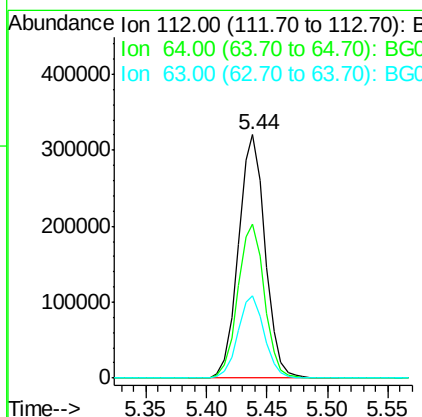
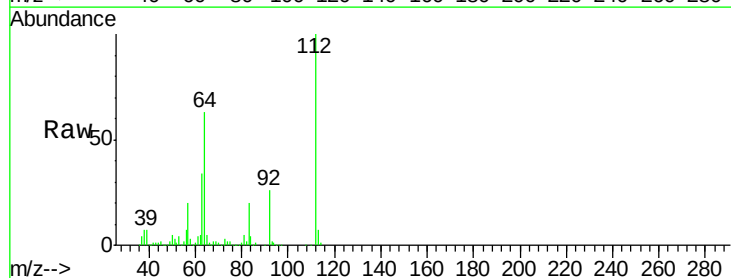
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.5 | 126.6 | 189.8 |
| 115     | 60.8  | 53.0  | 79.4  |

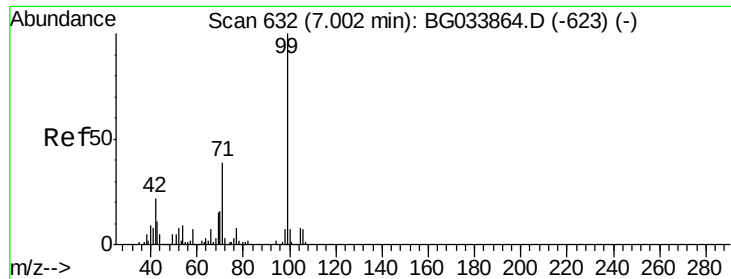


#5

2-Fluorophenol  
Concen: 134.206 ng  
RT: 5.44 min Scan# 366  
Delta R.T. -0.01 min  
Lab File: BG034014.D  
Acq: 26 Apr 2018 9:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 63.4  | 56.3  | 84.5  |
| 63      | 33.8  | 30.1  | 45.1  |





#7

Phenol-d6

Concen: 118.111 ng

RT: 7.00 min Scan# 631

Delta R.T. -0.01 min

Lab File: BG034014.D

Acq: 26 Apr 2018 9:11

Instrument :

BNA\_G

ClientSampleId :

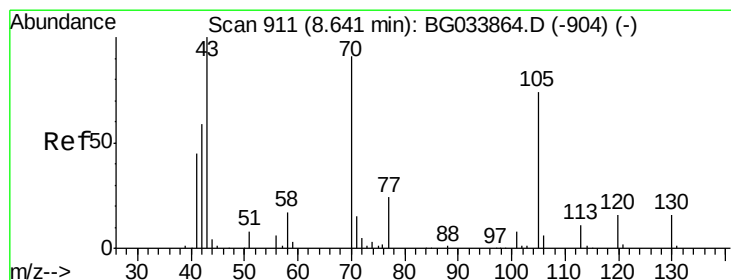
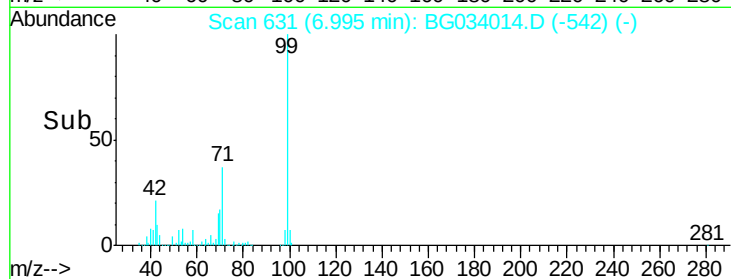
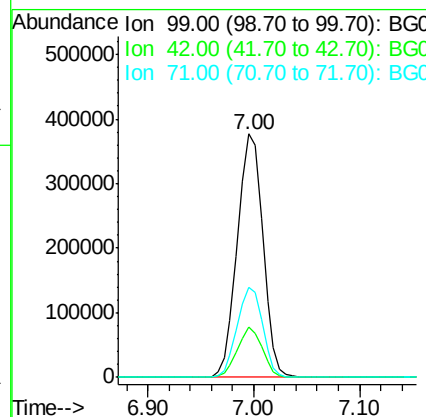
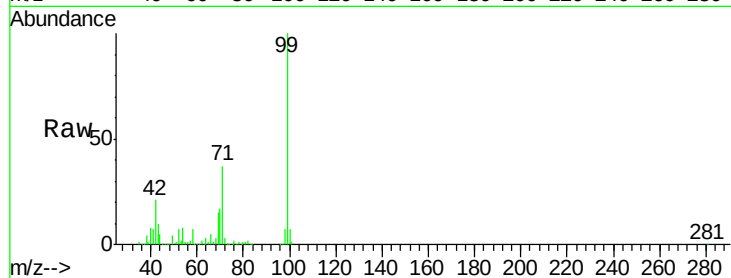
Tot Ion: 99 Resp: 632434

Ion Ratio Lower Upper

99 100

42 20.7 14.1 21.1

71 36.8 26.1 39.1



#19

n-Nitroso-di-n-propylamine

Concen: 14.580 ng

RT: 8.98 min Scan# 968

Delta R.T. 0.33 min

Lab File: BG034014.D

Acq: 26 Apr 2018 9:11

Tgt Ion: 70 Resp: 66549

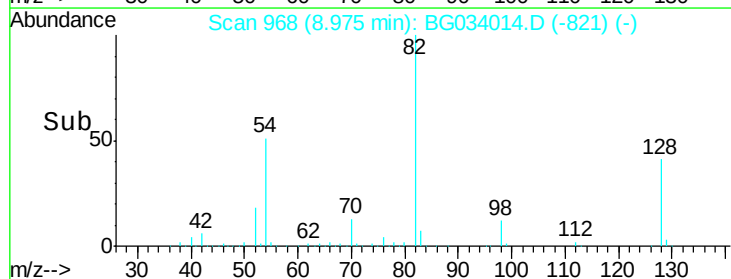
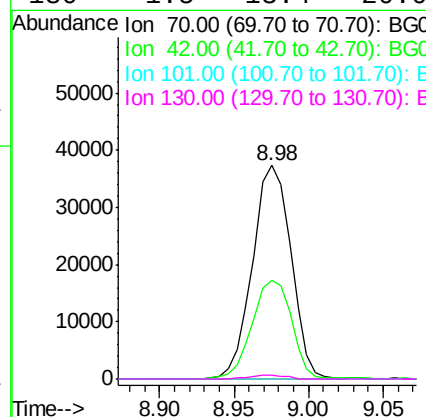
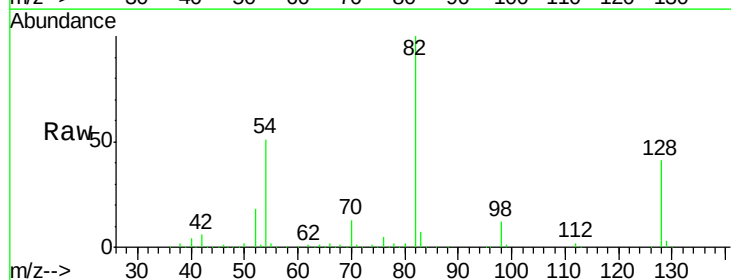
Ion Ratio Lower Upper

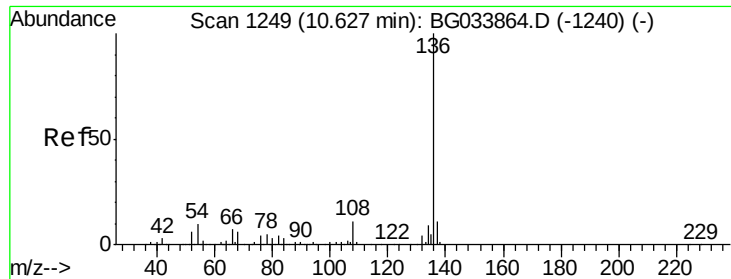
70 100

42 45.9 49.1 73.7#

101 0.0 8.5 12.7#

130 1.5 13.4 20.0#

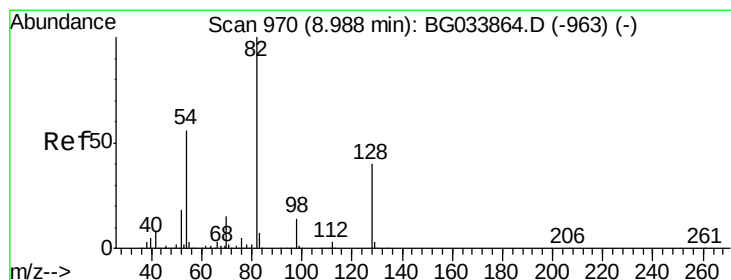
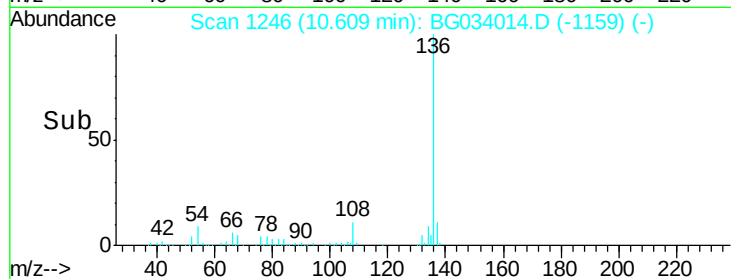
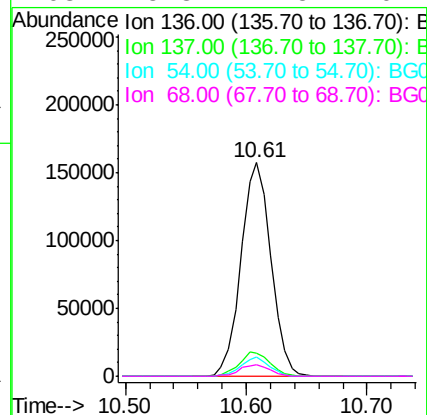
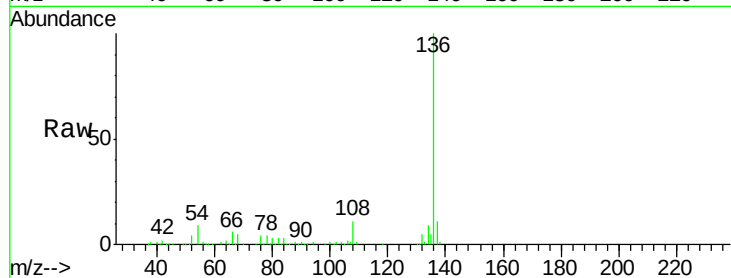




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.61 min Scan# 1246  
Delta R.T. -0.02 min  
Lab File: BG034014.D  
Acq: 26 Apr 2018 9:11

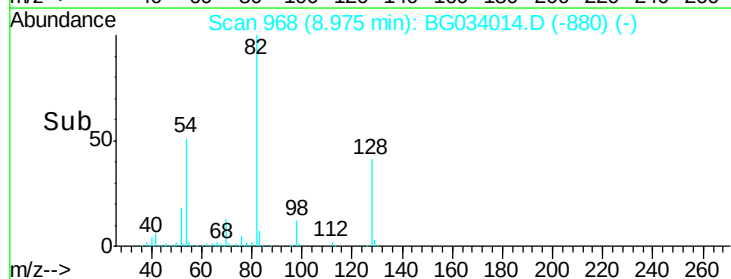
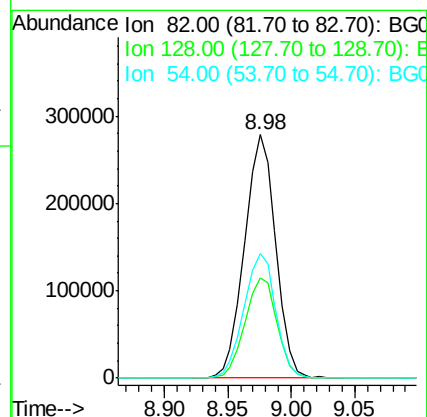
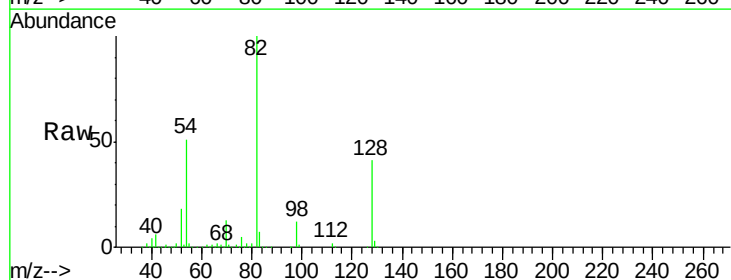
Instrument :  
BNA\_G  
ClientSampled :

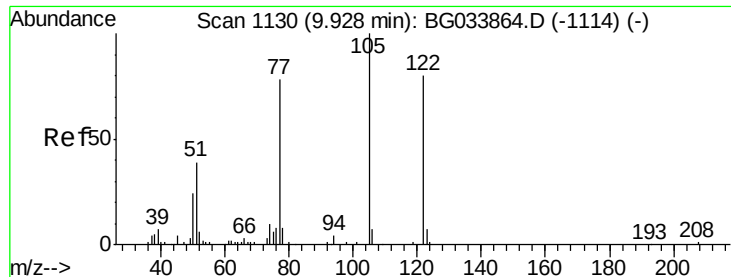
|             |       |            |
|-------------|-------|------------|
| Tot Ion:136 | Resp: | 272171     |
| Ion Ratio   | Lower | Upper      |
| 136         | 100   |            |
| 137         | 11.0  | 9.2 13.8   |
| 54          | 8.8   | 10.3 15.5# |
| 68          | 5.3   | 4.5 6.7    |



#23  
Nitrobenzene-d5  
Concen: 99.450 ng  
RT: 8.98 min Scan# 968  
Delta R.T. -0.01 min  
Lab File: BG034014.D  
Acq: 26 Apr 2018 9:11

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 475619    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 41.3  | 29.7 44.5 |
| 54          | 51.1  | 43.1 64.7 |

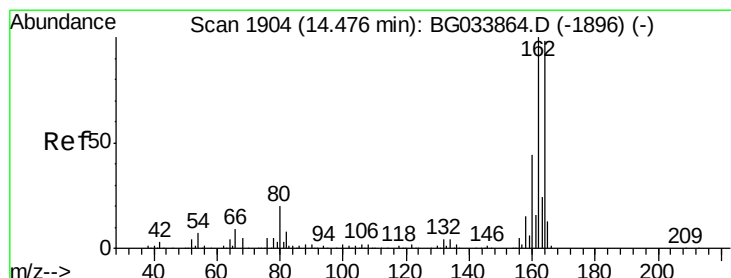
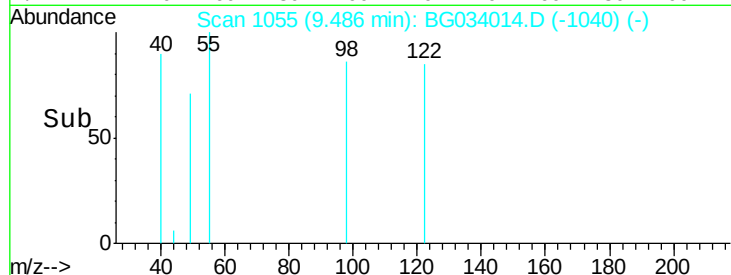
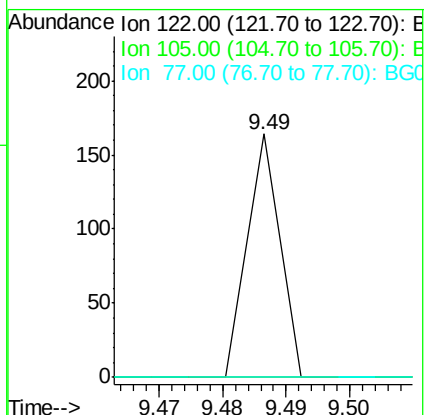
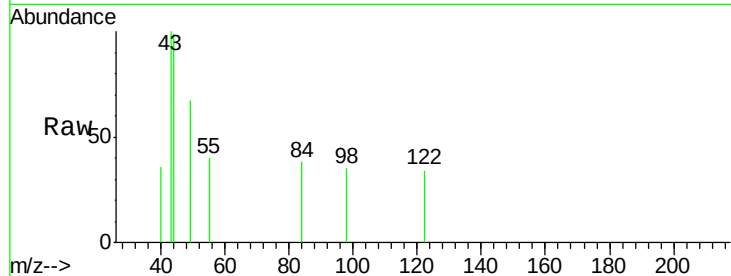




#32  
Benzoic acid  
Concen: 5.098 ng  
RT: 9.49 min Scan# 1055  
Delta R.T. -0.44 min  
Lab File: BG034014.D  
Acq: 26 Apr 2018 9:11

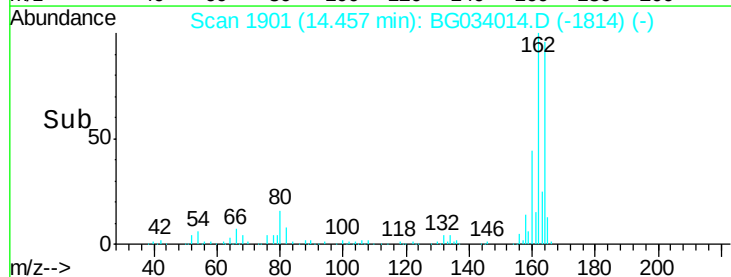
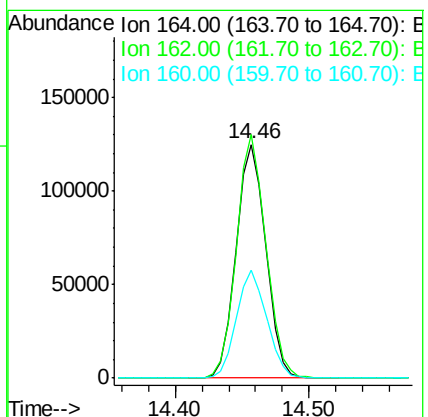
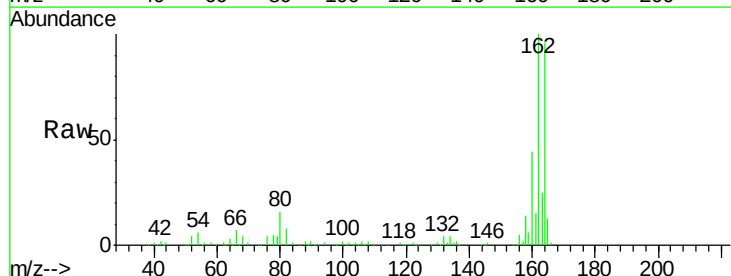
Instrument :  
BNA\_G  
ClientSampleId :

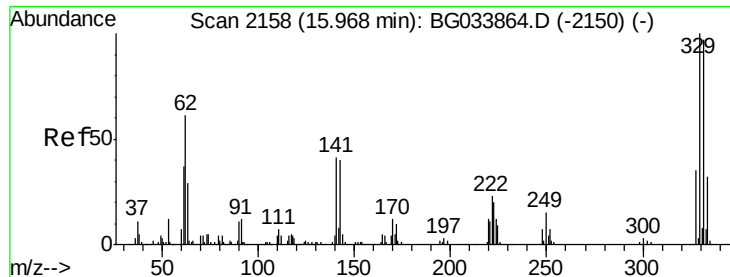
| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 122     | 100   |       |        |
| 105     | 0.0   | 123.5 | 163.5# |
| 77      | 0.0   | 85.7  | 125.7# |



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.46 min Scan# 1901  
Delta R.T. -0.02 min  
Lab File: BG034014.D  
Acq: 26 Apr 2018 9:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.1 | 78.8  | 118.2 |
| 160     | 46.2  | 35.4  | 53.0  |





#41

2,4,6-Tribromophenol

Concen: 137.252 ng

RT: 15.95 min Scan# 2155

Delta R.T. -0.02 min

Lab File: BG034014.D

Acq: 26 Apr 2018 9:11

Instrument :

BNA\_G

ClientSampled :

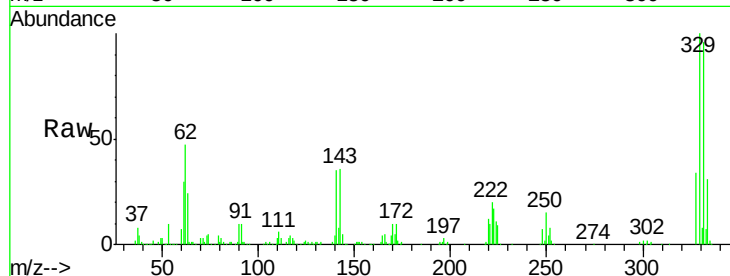
Tot Ion:330 Resp: 307440

Ion Ratio Lower Upper

330 100

332 96.7 77.0 115.6

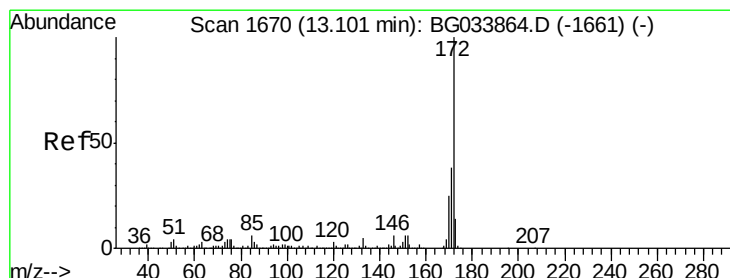
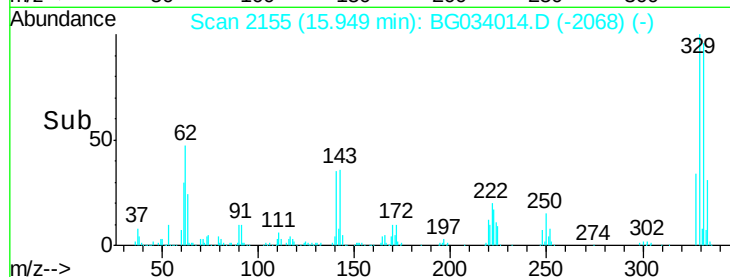
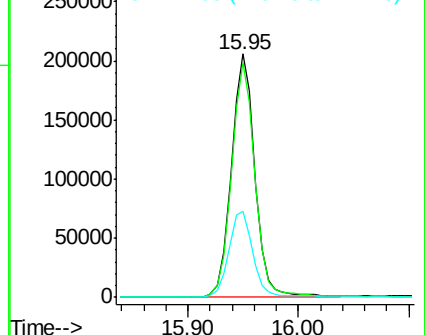
141 36.0 25.2 37.8



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: 96.533 ng

RT: 13.08 min Scan# 1667

Delta R.T. -0.02 min

Lab File: BG034014.D

Acq: 26 Apr 2018 9:11

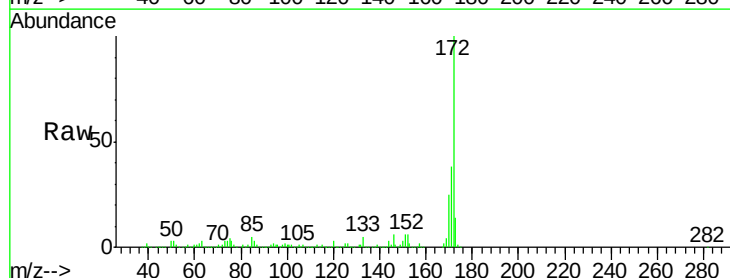
Tgt Ion:172 Resp: 1261660

Ion Ratio Lower Upper

172 100

171 38.3 30.0 45.0

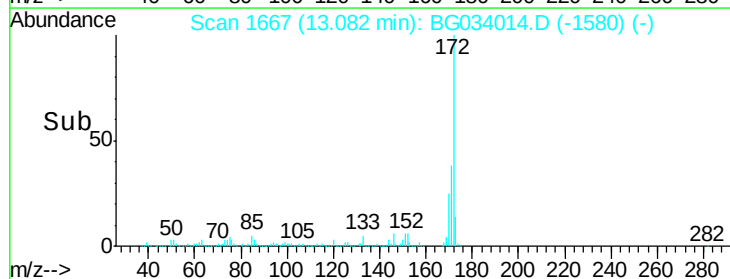
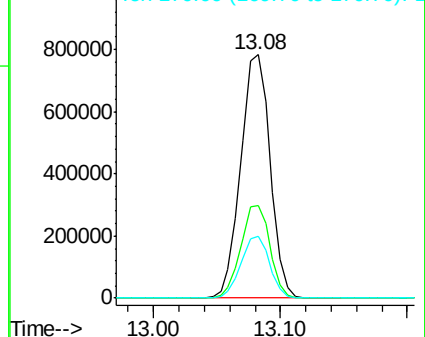
170 25.2 19.5 29.3

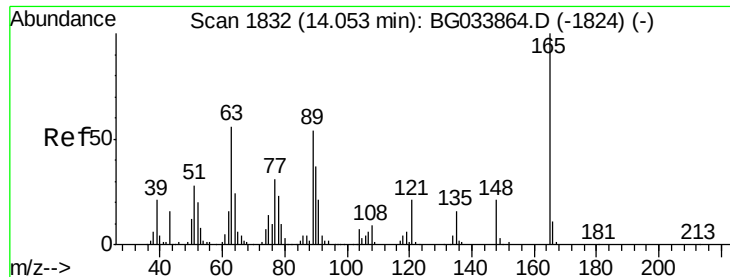


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

2,6-Dinitrotoluene

Concen: 7.756 ng

RT: 14.46 min Scan# 1901

Delta R.T. 0.40 min

Lab File: BG034014.D

Acq: 26 Apr 2018 9:11

Instrument :

BNA\_G

ClientSampleId :

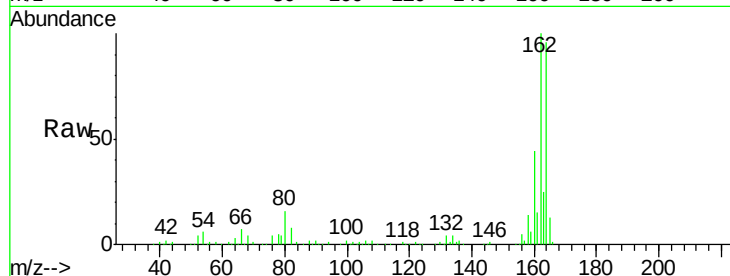
Tot Ion:165 Resp: 24824

Ion Ratio Lower Upper

165 100

63 1.3 52.7 79.1#

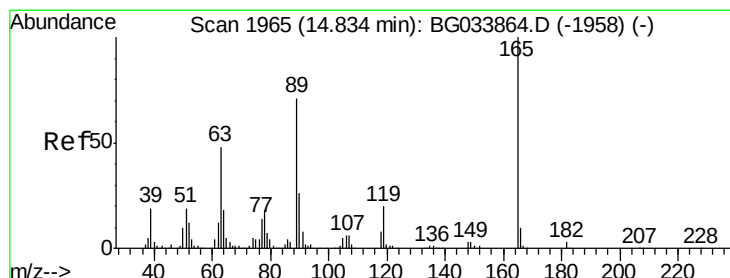
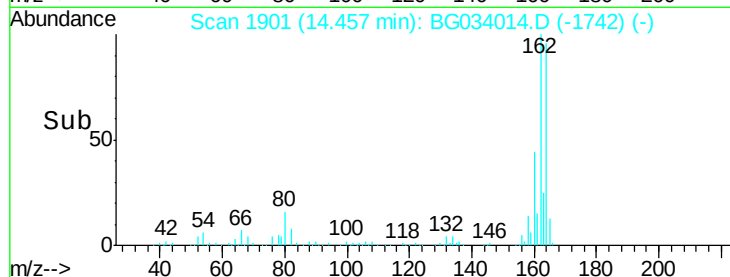
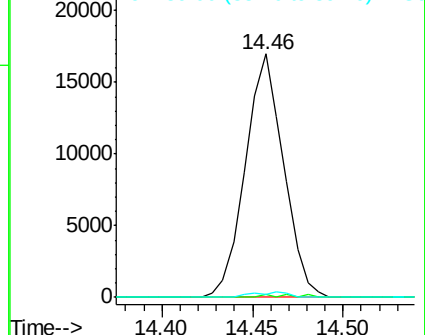
89 1.0 49.2 73.8#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC



#56

2,4-Dinitrotoluene

Concen: 5.833 ng

RT: 14.46 min Scan# 1901

Delta R.T. -0.38 min

Lab File: BG034014.D

Acq: 26 Apr 2018 9:11

Tgt Ion:165 Resp: 24824

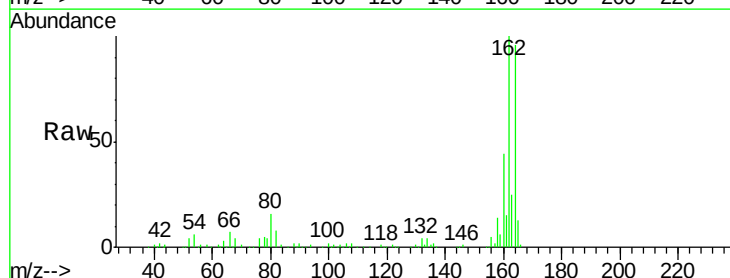
Ion Ratio Lower Upper

165 100

63 1.3 42.0 63.0#

89 1.0 66.9 100.3#

182 0.0 2.6 3.8#

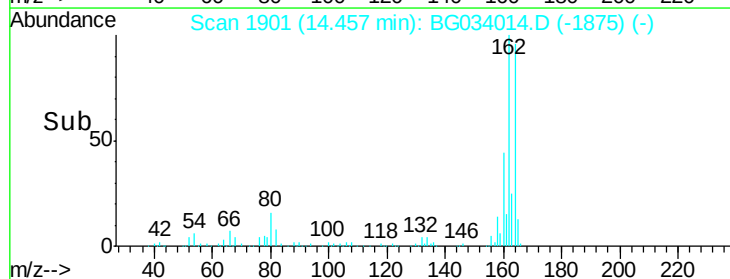
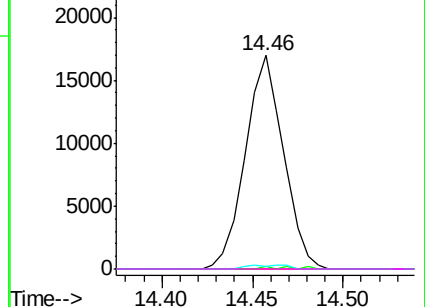


Abundance Ion 165.00 (164.70 to 165.70): E

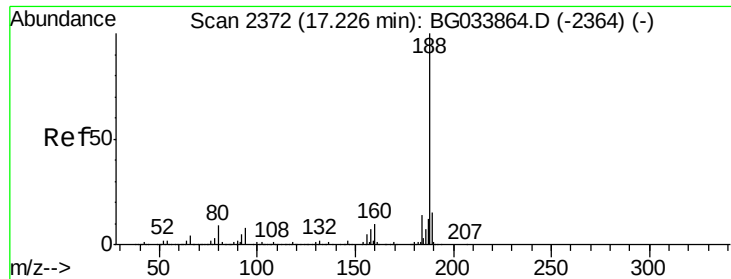
Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E







#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.21 min Scan# 2369

Delta R.T. -0.02 min

Lab File: BG034014.D

Acq: 26 Apr 2018 9:11

Instrument :

BNA\_G

ClientSampleId :

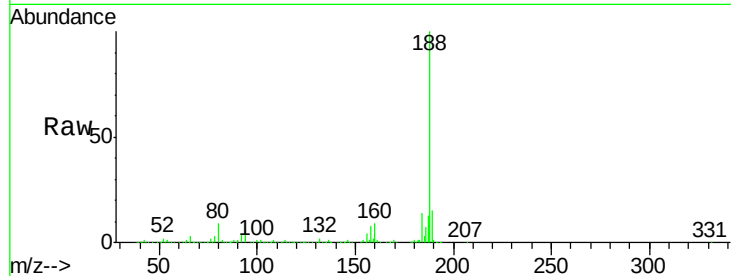
Tot Ion:188 Resp: 520924

Ion Ratio Lower Upper

188 100

94 7.1 6.9 10.3

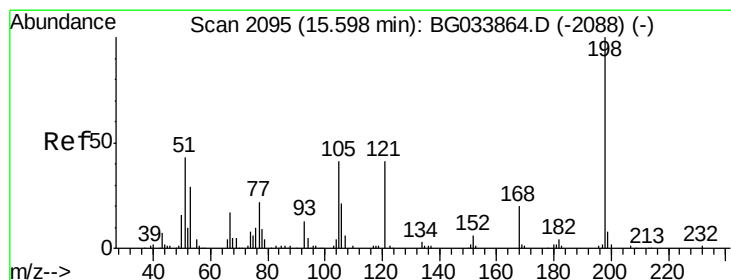
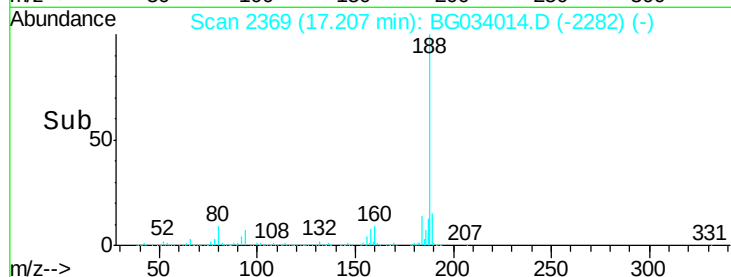
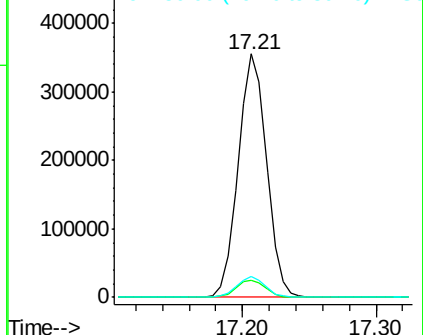
80 8.7 7.7 11.5



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



#64

4,6-Dinitro-2-methylphenol

Concen: 6.515 ng

RT: 15.54 min Scan# 2085

Delta R.T. -0.06 min

Lab File: BG034014.D

Acq: 26 Apr 2018 9:11

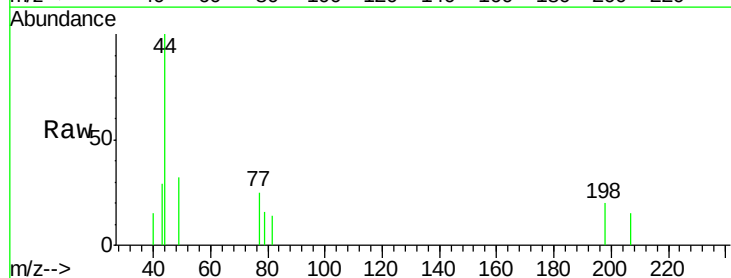
Tgt Ion:198 Resp: 76

Ion Ratio Lower Upper

198 100

51 0.0 30.6 70.6#

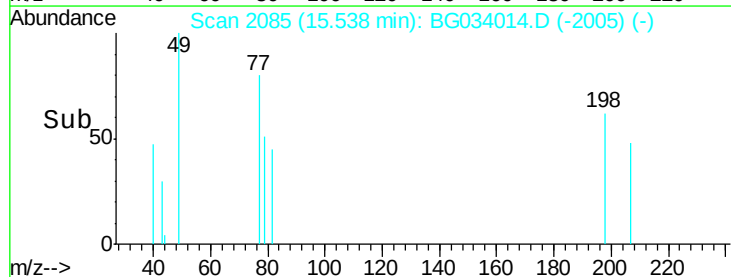
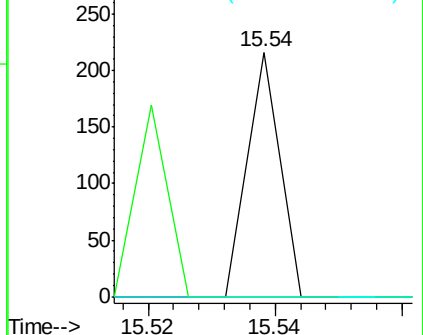
105 0.0 23.8 63.8#

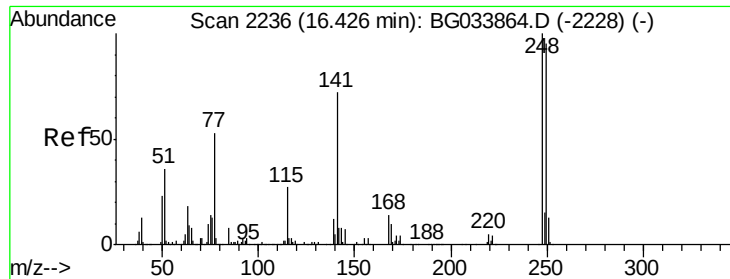


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BGC

Ion 105.00 (104.70 to 105.70): E





#66

4-Bromophenyl-phenylether

Concen: 2.712 ng

RT: 15.95 min Scan# 2155

Delta R.T. -0.48 min

Lab File: BG034014.D

Acq: 26 Apr 2018 9:11

Instrument :

BNA\_G

ClientSampled :

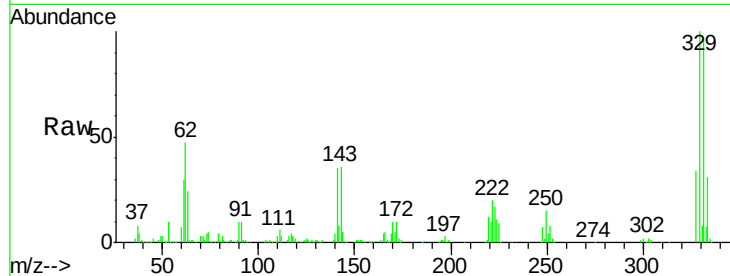
Tot Ion:248 Resp: 15517

Ion Ratio Lower Upper

248 100

250 189.8 77.1 115.7#

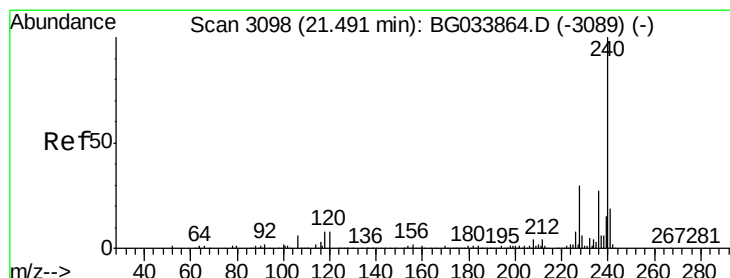
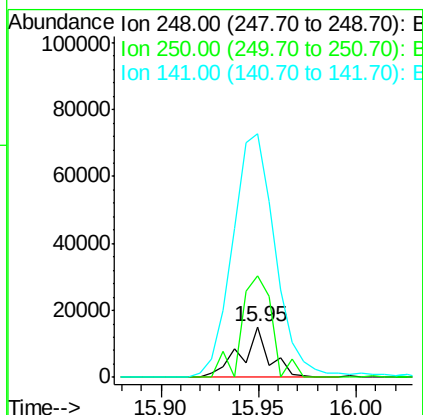
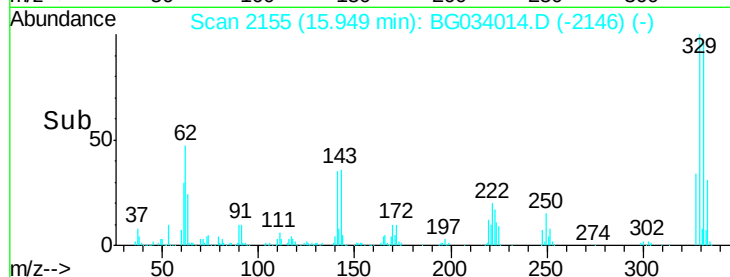
141 359.7 50.8 76.2#



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: 21.46 min Scan# 3093

Delta R.T. -0.03 min

Lab File: BG034014.D

Acq: 26 Apr 2018 9:11

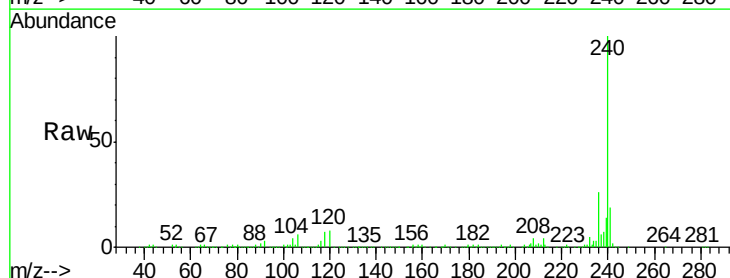
Tgt Ion:240 Resp: 581595

Ion Ratio Lower Upper

240 100

120 7.8 6.8 10.2

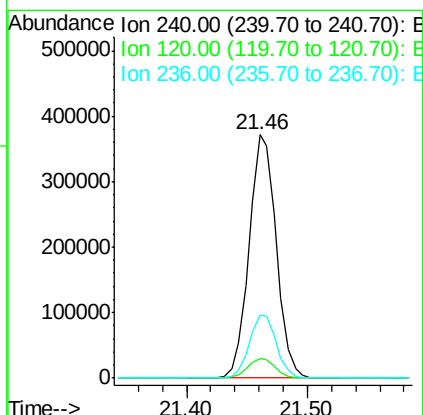
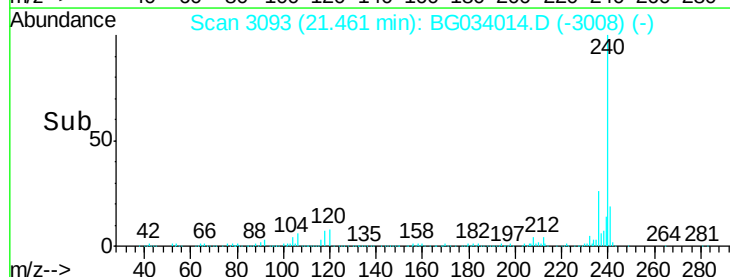
236 25.8 20.9 31.3

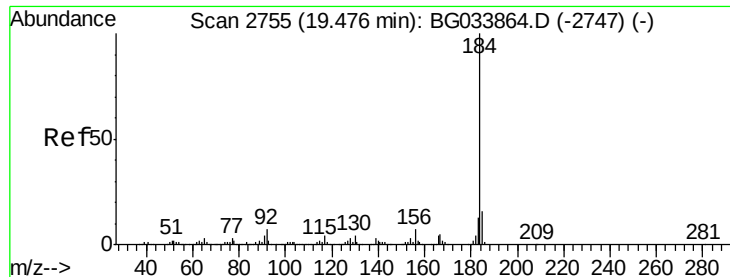


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 2.404 ng

RT: 19.46 min Scan# 2752

Delta R.T. -0.02 min

Lab File: BG034014.D

Acq: 26 Apr 2018 9:11

Instrument :

BNA\_G

ClientSampleId :

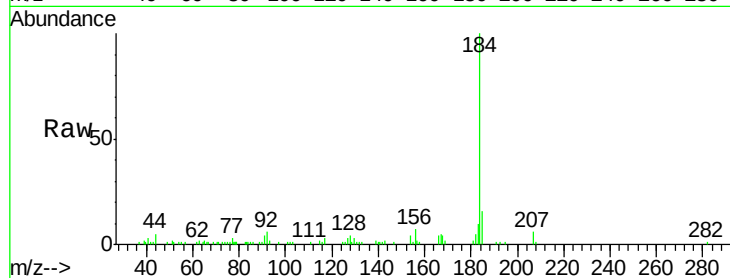
Tot Ion:184 Resp: 37762

Ion Ratio Lower Upper

184 100

185 15.7 11.1 16.7

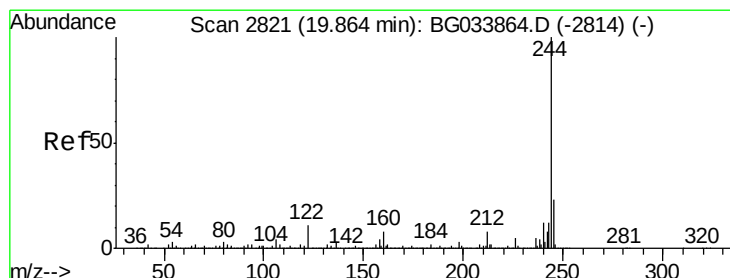
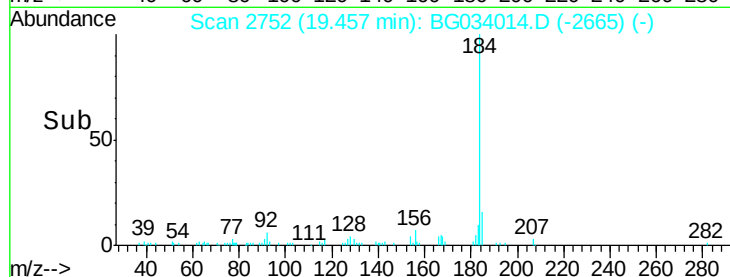
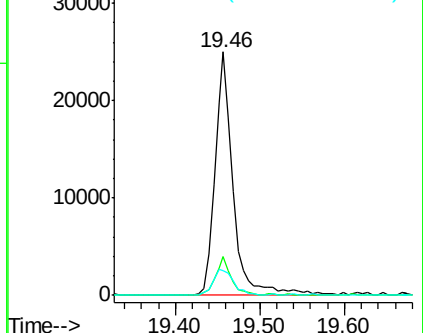
183 10.1 10.6 16.0#



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: 93.863 ng

RT: 19.84 min Scan# 2818

Delta R.T. -0.02 min

Lab File: BG034014.D

Acq: 26 Apr 2018 9:11

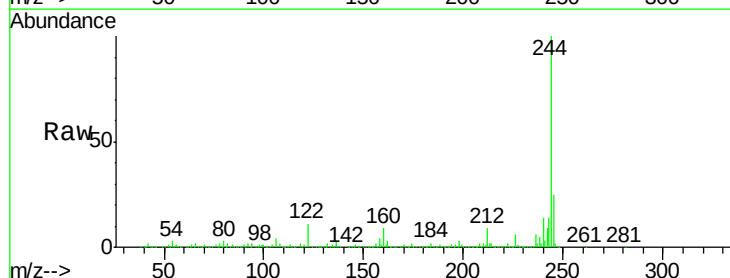
Tgt Ion:244 Resp: 2429890

Ion Ratio Lower Upper

244 100

212 9.3 5.8 8.8#

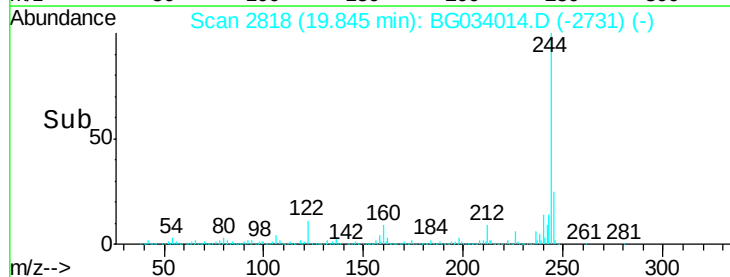
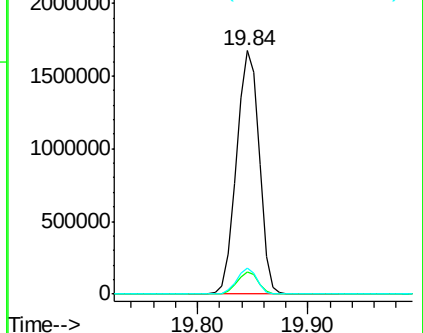
122 10.7 7.0 10.4#

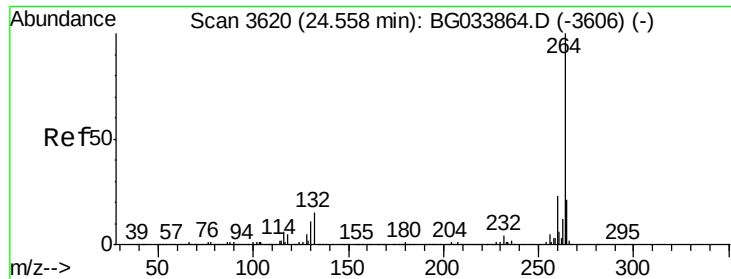


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 24.52 min Scan# 3613  
Delta R.T. -0.04 min  
Lab File: BG034014.D  
Acq: 26 Apr 2018 9:11

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion: 264 Resp: 574879  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.0  | 17.4  | 26.0  |
| 265 | 21.0  | 17.7  | 26.5  |

