

Data Path : U:\HPCHEM1\BNA G\DATA\BG020218\  
 Data File : BG032514.D  
 Acq On : 2 Feb 2018 16:23  
 Operator : SJ/JU  
 Sample : J1395-02  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Feb 02 21:50:51 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

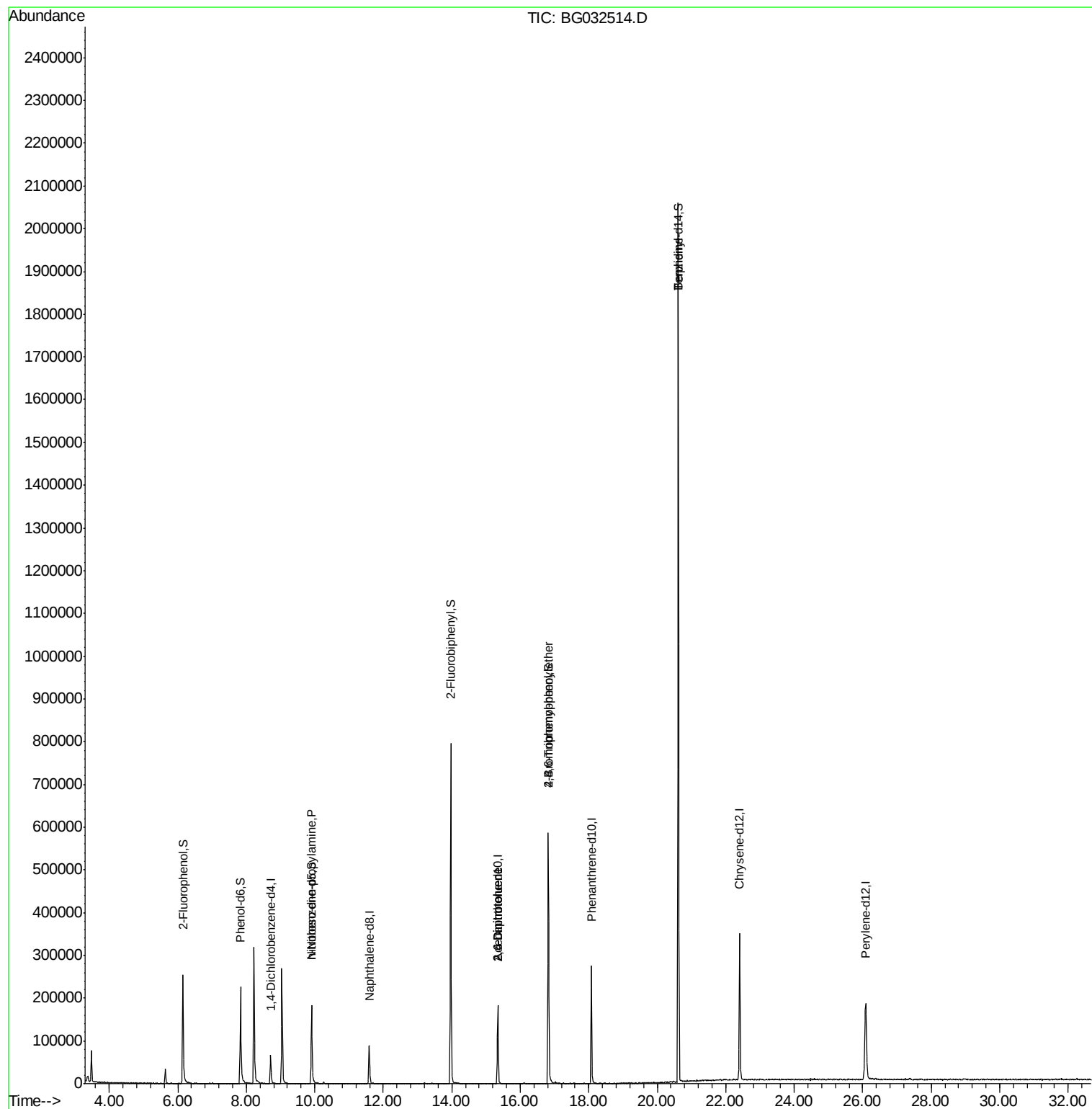
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.71  | 152  | 25493    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 11.59 | 136  | 98175    | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 15.35 | 164  | 70624    | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 18.08 | 188  | 200692   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 22.41 | 240  | 265401   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 26.09 | 264  | 278907   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.15  | 112  | 141879   | 111.78 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.83  | 99   | 161640   | 95.44  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.91  | 82   | 126780   | 80.66  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.82 | 330  | 150629   | 112.05 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 13.97 | 172  | 491235   | 82.67  | ng    | -0.02    |
| 78) Terphenyl-d14              | 20.62 | 244  | 1110949  | 89.67  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.90  | 70   | 18863    | 16.797 | ng    | # 70     |
| 50) 2,6-Dinitrotoluene         | 15.35 | 165  | 9644     | 7.056  | ng    | # 18     |
| 56) 2,4-Dinitrotoluene         | 15.35 | 165  | 9644     | 4.956  | ng    | # 16     |
| 66) 4-Bromophenyl-phenylether  | 16.82 | 248  | 12590    | 4.234  | ng    | # 1      |
| 76) Benzidine                  | 20.62 | 184  | 15463    | 2.967  | ng    | # 94     |

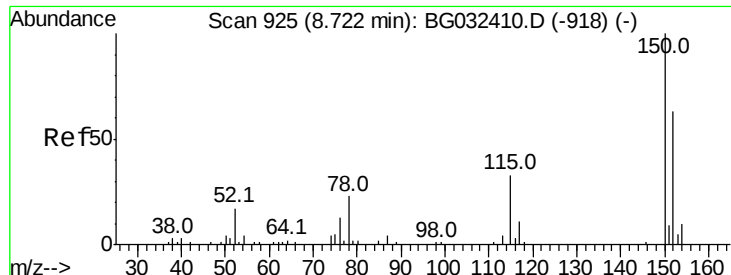
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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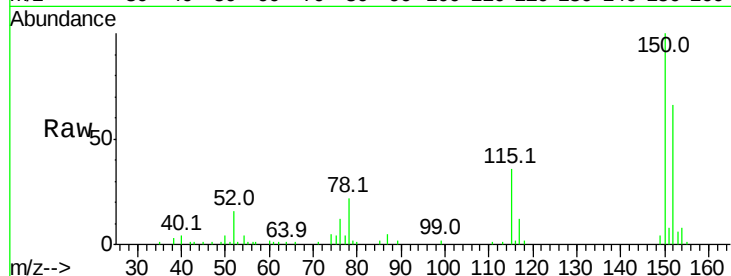


#1

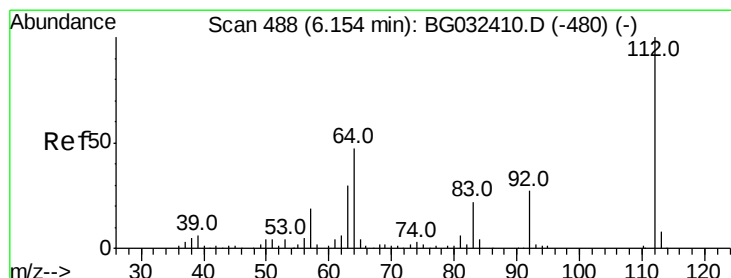
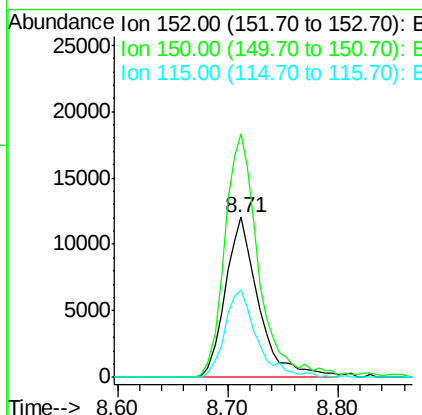
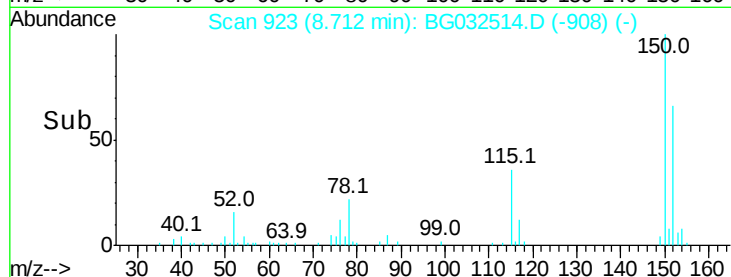
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.71 min Scan# 923  
Delta R.T. -0.01 min  
Lab File: BG032514.D  
Acq: 2 Feb 2018 16:23

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:152 Resp: 25493  
Ion Ratio Lower Upper  
152 100  
150 152.2 126.6 189.8  
115 54.5 53.0 79.4



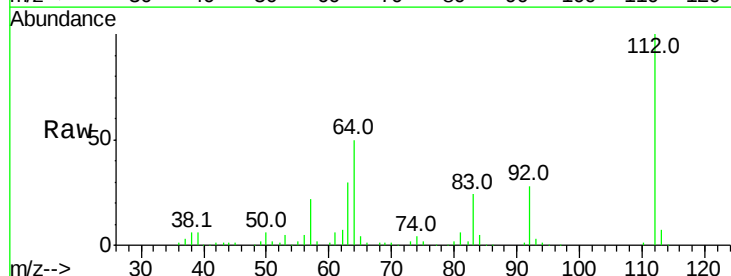
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



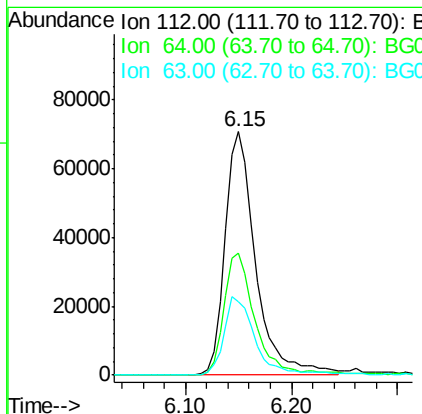
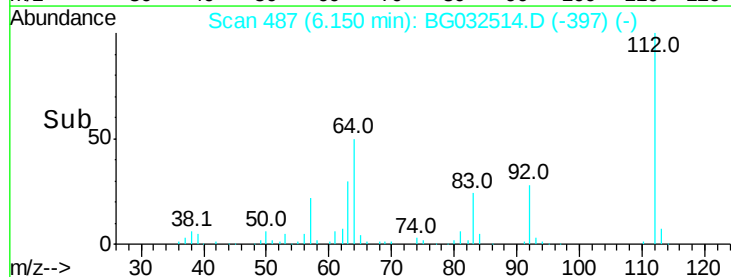
#5

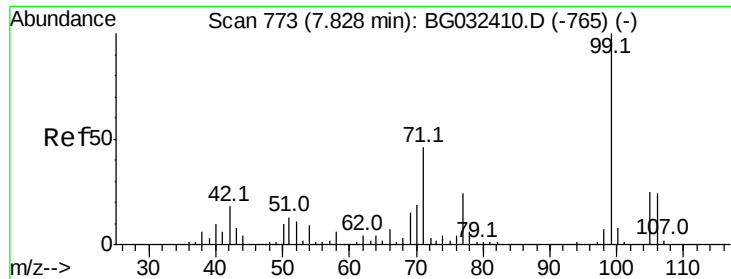
2-Fluorophenol  
Concen: 111.784 ng  
RT: 6.15 min Scan# 487  
Delta R.T. -0.00 min  
Lab File: BG032514.D  
Acq: 2 Feb 2018 16:23

Tgt Ion:112 Resp: 141879  
Ion Ratio Lower Upper  
112 100  
64 50.2 56.3 84.5#  
63 30.1 30.1 45.1



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





#7

Phenol-d6

Concen: 95.438 ng

RT: 7.83 min Scan# 773

Delta R.T. 0.00 min

Lab File: BG032514.D

Acq: 2 Feb 2018 16:23

Instrument :

BNA\_G

ClientSampled :

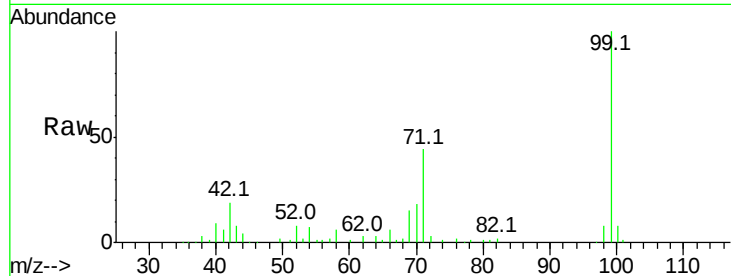
Tot Ion: 99 Resp: 161640

Ion Ratio Lower Upper

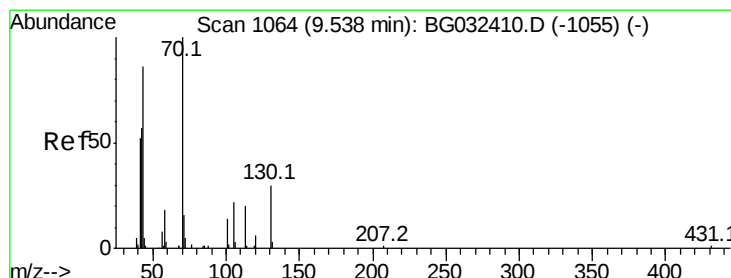
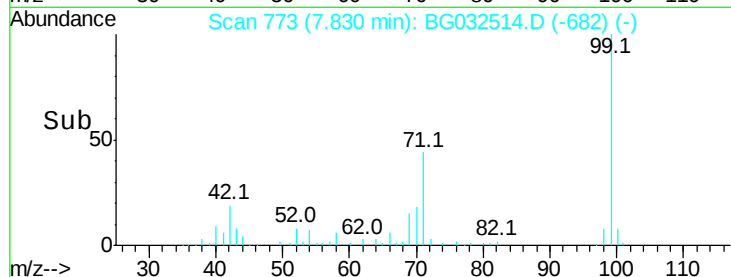
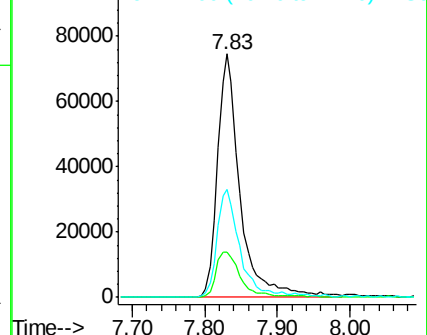
99 100

42 18.5 14.1 21.1

71 44.4 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



#19

n-Nitroso-di-n-propylamine

Concen: 16.797 ng

RT: 9.90 min Scan# 1126

Delta R.T. 0.37 min

Lab File: BG032514.D

Acq: 2 Feb 2018 16:23

Tgt Ion: 70 Resp: 18863

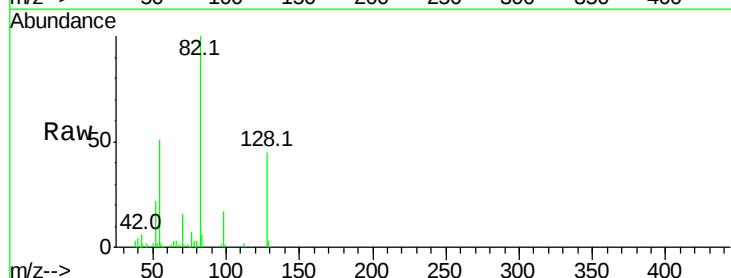
Ion Ratio Lower Upper

70 100

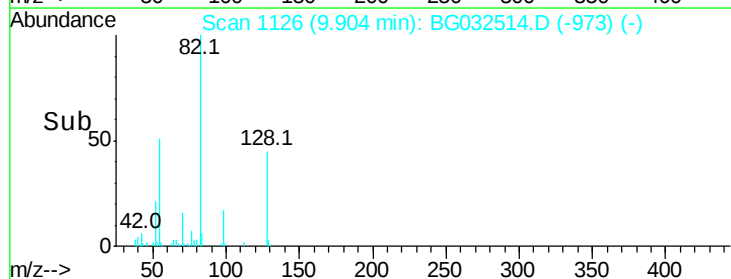
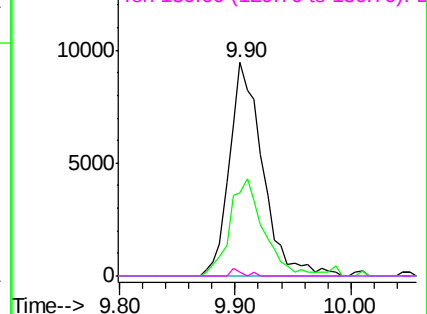
42 39.1 49.1 73.7#

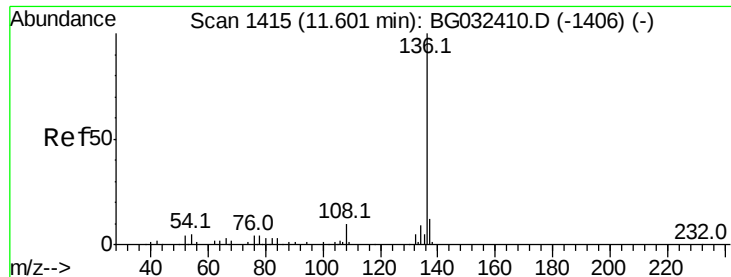
101 0.0 8.5 12.7#

130 1.6 13.4 20.0#



Abundance Ion 70.00 (69.70 to 70.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 101.00 (100.70 to 101.70): BGC  
Ion 130.00 (129.70 to 130.70): BGC





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 11.59 min Scan# 1413

Delta R.T. -0.01 min

Lab File: BG032514.D

Acq: 2 Feb 2018 16:23

Instrument :

BNA\_G

ClientSampleId :

Tot Ion:136 Resp: 98175

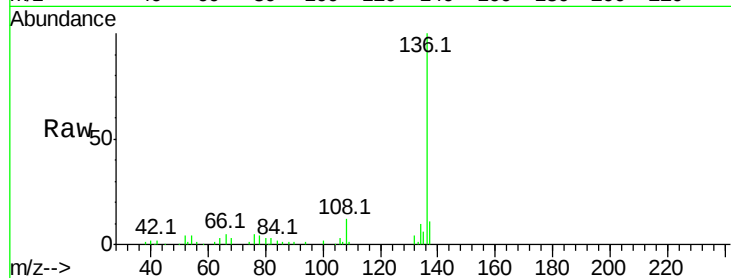
Ion Ratio Lower Upper

136 100

137 10.6 9.2 13.8

54 3.6 10.3 15.5#

68 3.1 4.5 6.7#

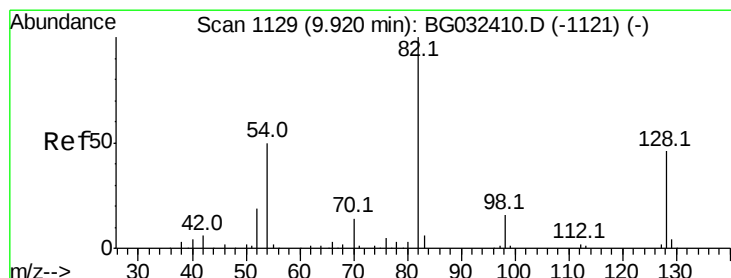
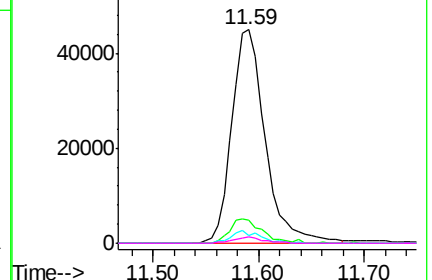
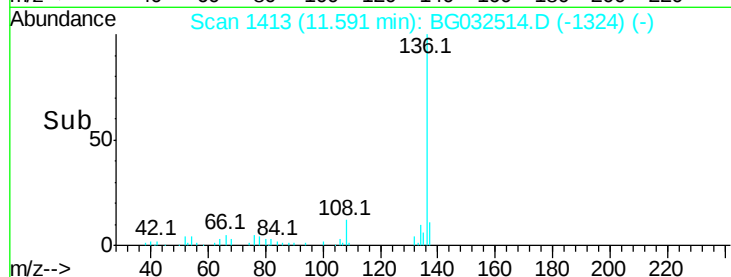


Abundance Ion 136.00 (135.70 to 136.70): E

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: 80.659 ng

RT: 9.91 min Scan# 1127

Delta R.T. -0.01 min

Lab File: BG032514.D

Acq: 2 Feb 2018 16:23

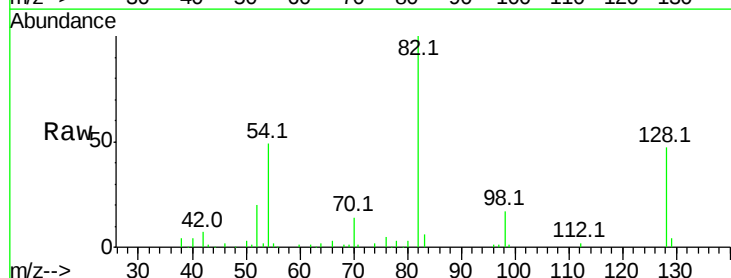
Tgt Ion: 82 Resp: 126780

Ion Ratio Lower Upper

82 100

128 46.7 29.7 44.5#

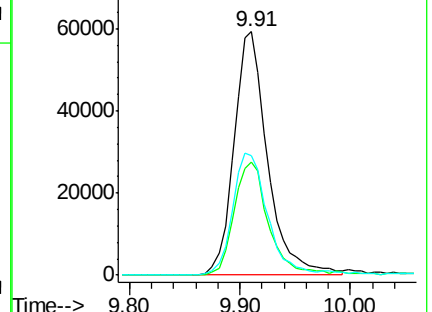
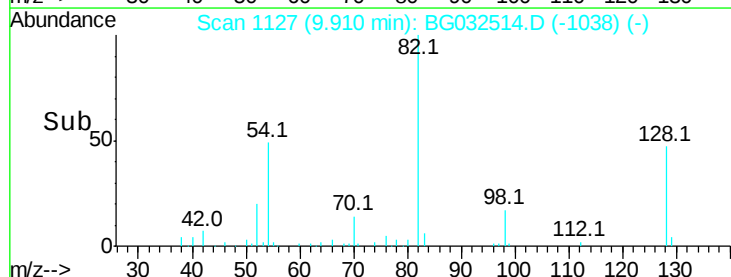
54 49.2 43.1 64.7

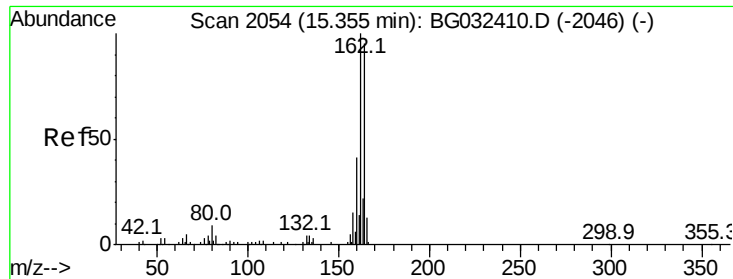


Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BGC





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 15.35 min Scan# 2052

Delta R.T. -0.01 min

Lab File: BG032514.D

Acq: 2 Feb 2018 16:23

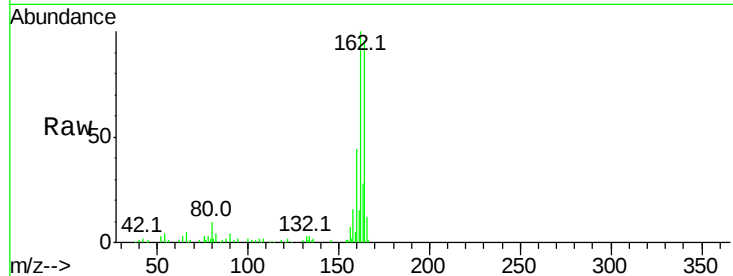
Instrument :

BNA\_G

ClientSampleId :

Tot Ion:164 Resp: 70624

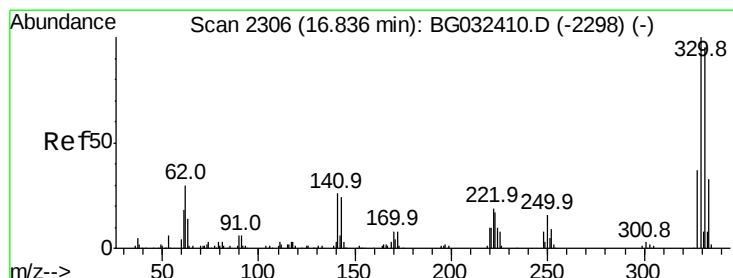
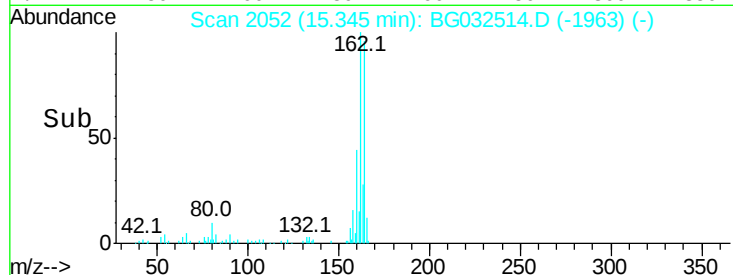
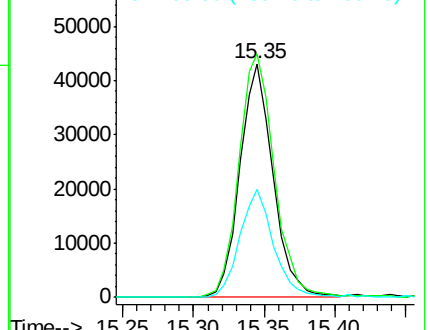
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 104.3 | 78.8  | 118.2 |
| 160 | 46.2  | 35.4  | 53.0  |



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



#41

2,4,6-Tribromophenol

Concen: 112.048 ng

RT: 16.82 min Scan# 2303

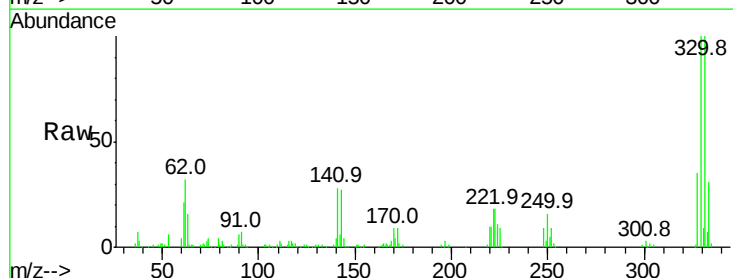
Delta R.T. -0.02 min

Lab File: BG032514.D

Acq: 2 Feb 2018 16:23

Tgt Ion:330 Resp: 150629

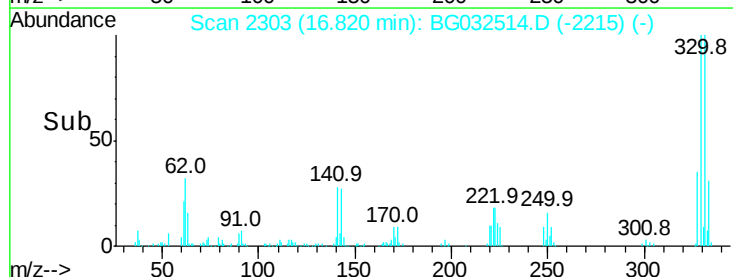
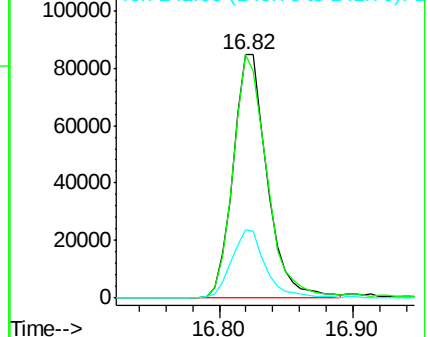
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 330 | 100   |       |       |
| 332 | 100.3 | 77.0  | 115.6 |
| 141 | 28.1  | 25.2  | 37.8  |

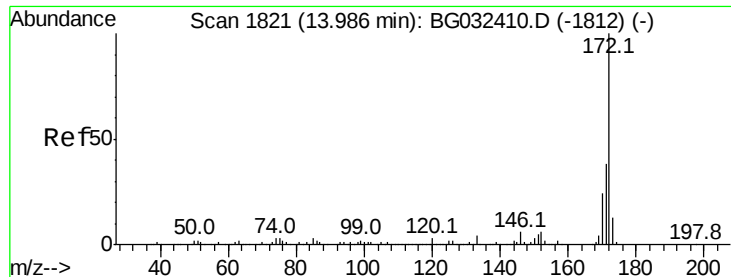


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

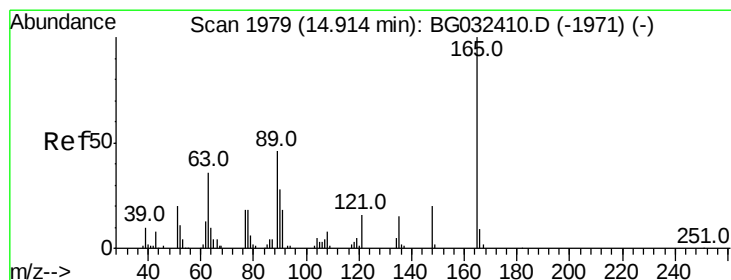
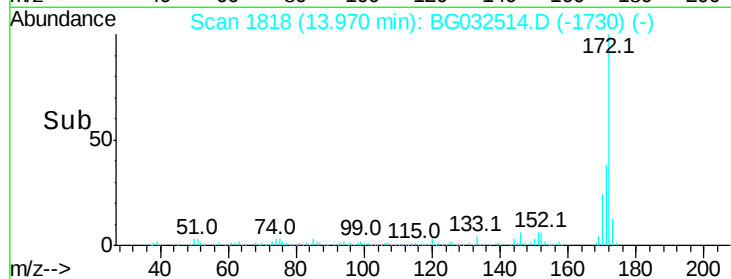
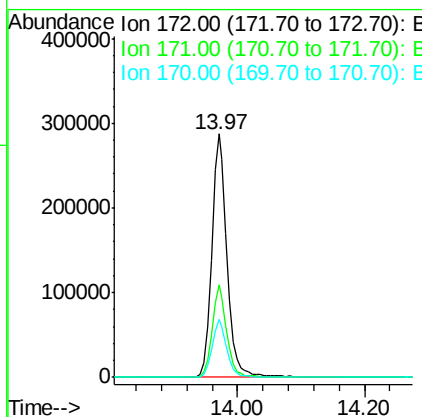
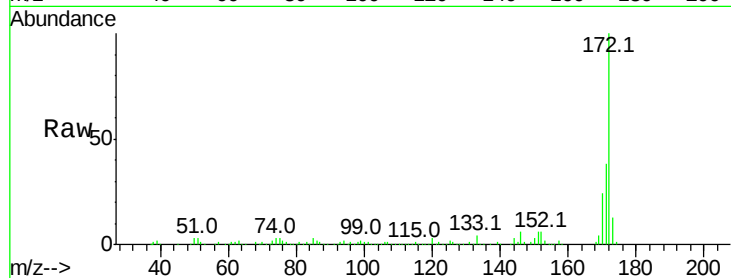




#44  
 2-Fluorobiphenyl  
 Concen: 82.672 ng  
 RT: 13.97 min Scan# 1818  
 Delta R.T. -0.02 min  
 Lab File: BG032514.D  
 Acq: 2 Feb 2018 16:23

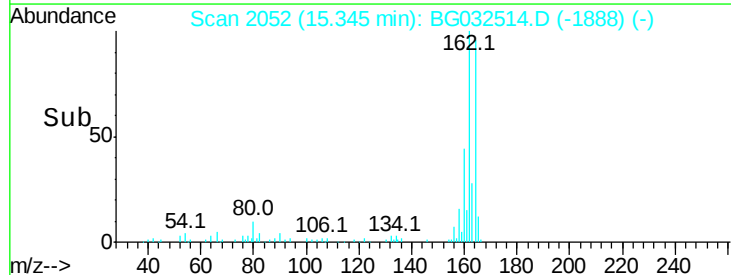
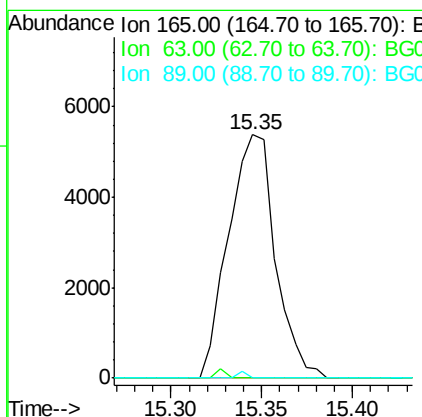
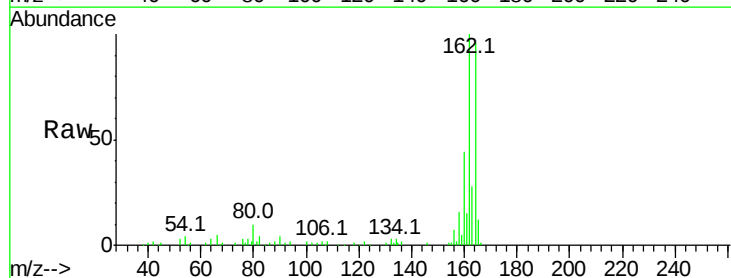
Instrument :  
 BNA\_G  
 ClientSampleId :

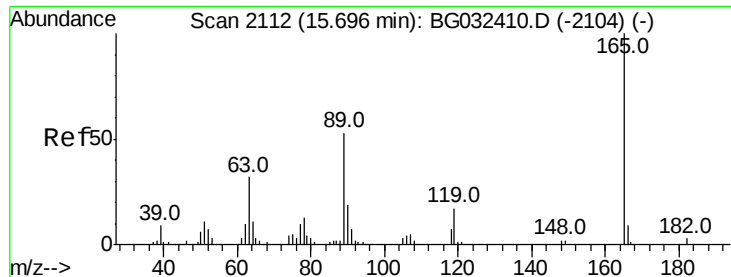
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.8  | 30.0  | 45.0  |
| 170     | 23.6  | 19.5  | 29.3  |



#50  
 2,6-Dinitrotoluene  
 Concen: 7.056 ng  
 RT: 15.35 min Scan# 2052  
 Delta R.T. 0.43 min  
 Lab File: BG032514.D  
 Acq: 2 Feb 2018 16:23

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

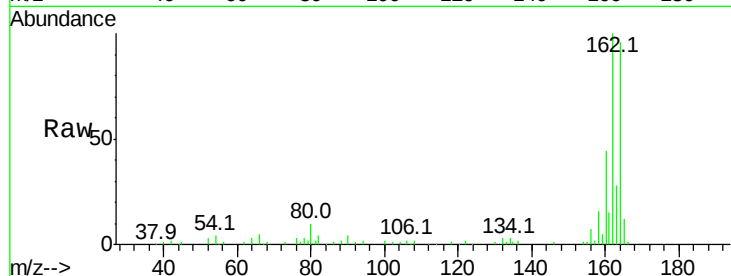




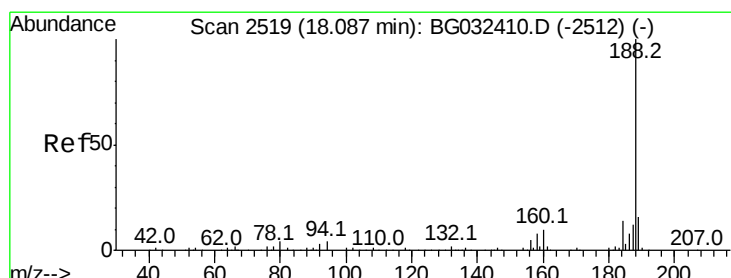
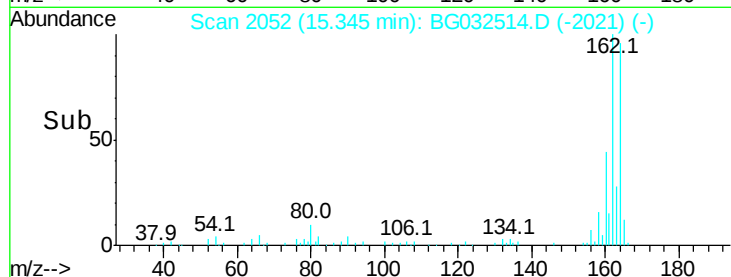
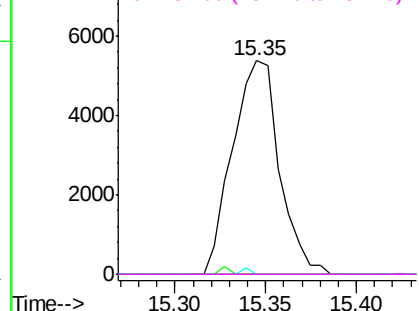
#56  
2,4-Dinitrotoluene  
Concen: 4.956 ng  
RT: 15.35 min Scan# 2052  
Delta R.T. -0.35 min  
Lab File: BG032514.D  
Acq: 2 Feb 2018 16:23

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:165 Resp: 9644  
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#

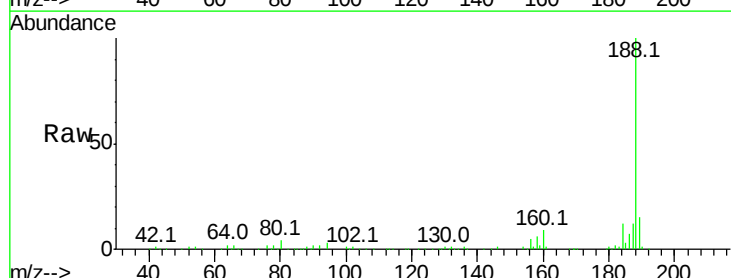


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 89.00 (88.70 to 89.70): BGC  
Ion 182.00 (181.70 to 182.70): E

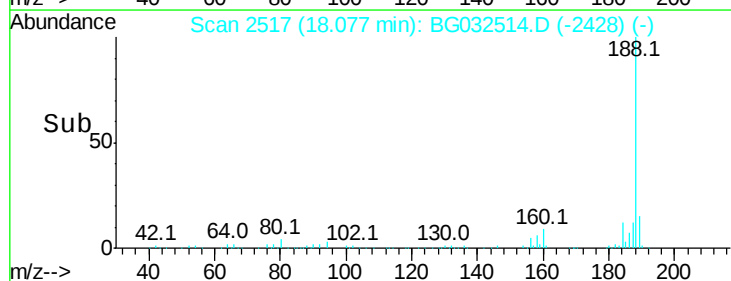
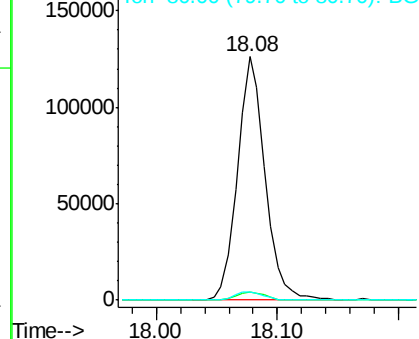


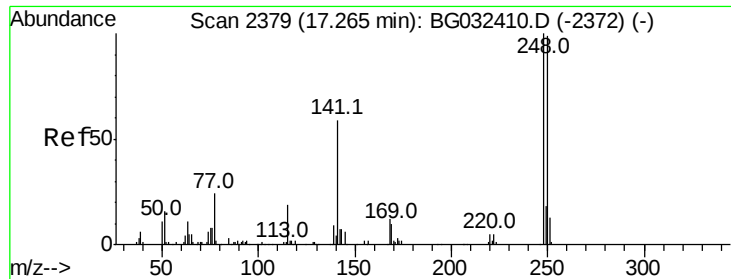
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 18.08 min Scan# 2517  
Delta R.T. -0.01 min  
Lab File: BG032514.D  
Acq: 2 Feb 2018 16:23

Tgt Ion:188 Resp: 200692  
Ion Ratio Lower Upper  
188 100  
94 3.5 6.9 10.3#  
80 3.5 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

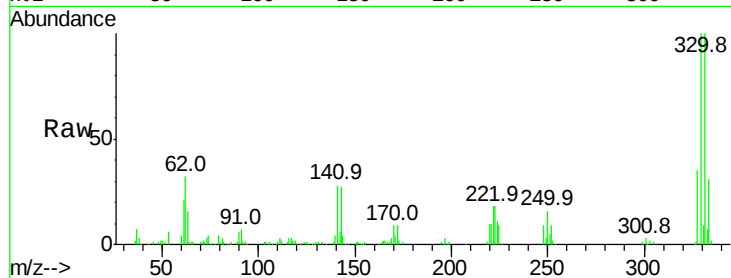




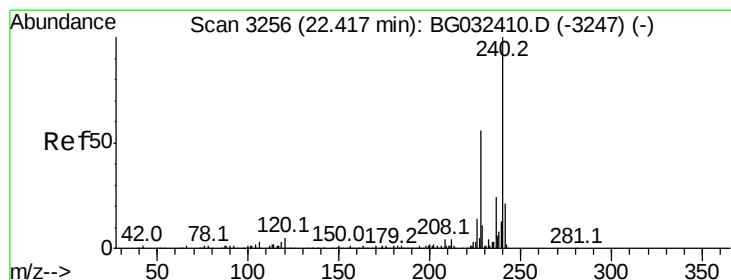
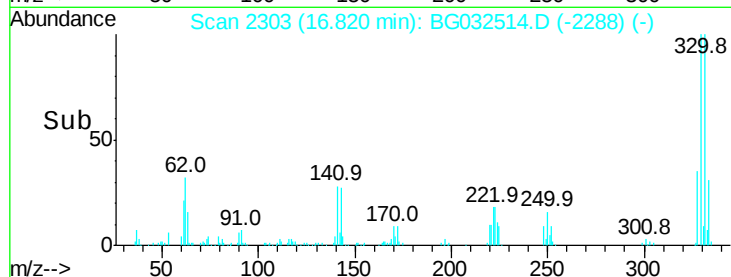
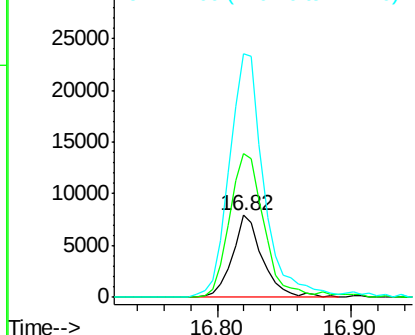
#66  
 4-Bromophenyl-phenylether  
 Concen: 4.234 ng  
 RT: 16.82 min Scan# 2303  
 Delta R.T. -0.44 min  
 Lab File: BG032514.D  
 Acq: 2 Feb 2018 16:23

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:248 Resp: 12590  
 Ion Ratio Lower Upper  
 248 100  
 250 175.7 77.1 115.7#  
 141 296.3 50.8 76.2#

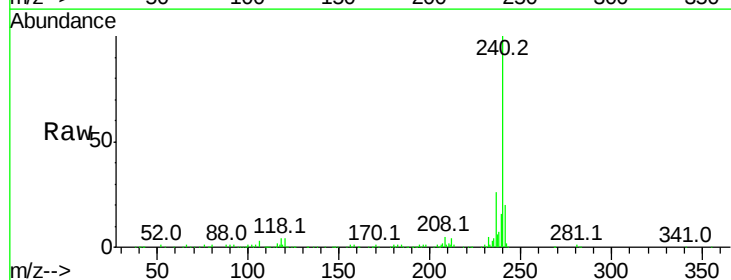


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

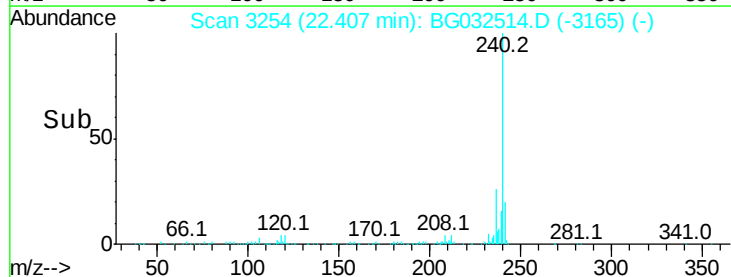
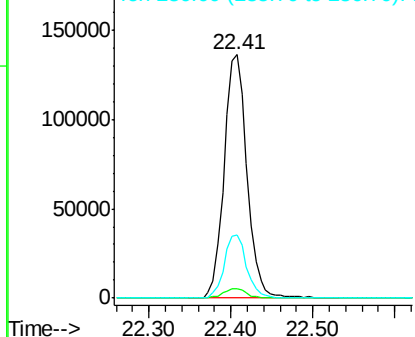


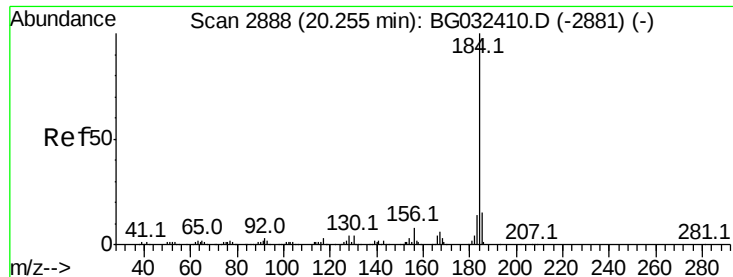
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 22.41 min Scan# 3254  
 Delta R.T. -0.01 min  
 Lab File: BG032514.D  
 Acq: 2 Feb 2018 16:23

Tgt Ion:240 Resp: 265401  
 Ion Ratio Lower Upper  
 240 100  
 120 3.9 6.8 10.2#  
 236 26.2 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: 2.967 ng

RT: 20.62 min Scan# 2949

Delta R.T. 0.36 min

Lab File: BG032514.D

Acq: 2 Feb 2018 16:23

Instrument :

BNA\_G

ClientSampleId :

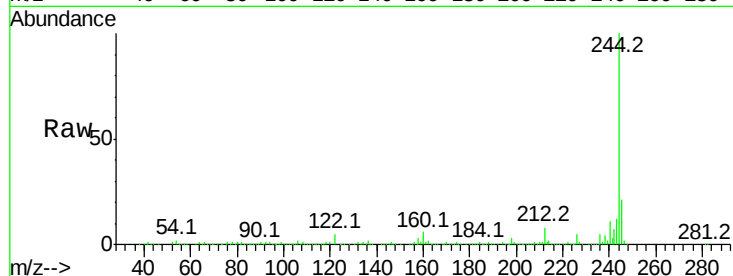
Tot Ion:184 Resp: 15463

Ion Ratio Lower Upper

184 100

185 16.1 11.1 16.7

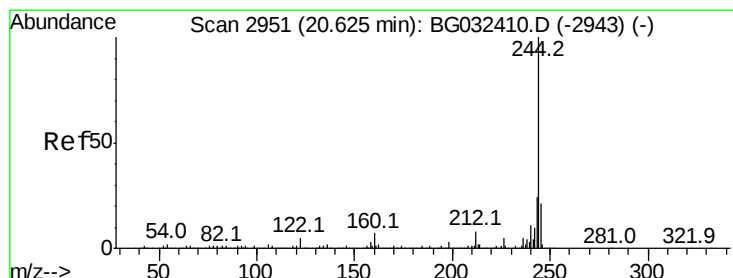
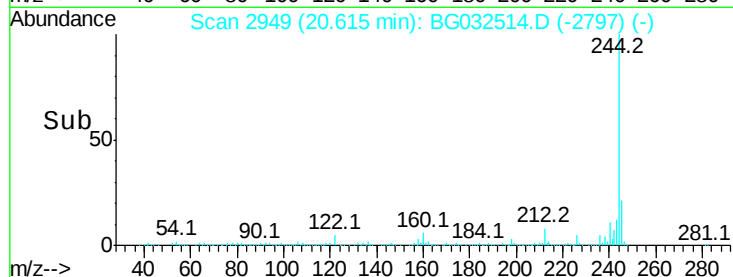
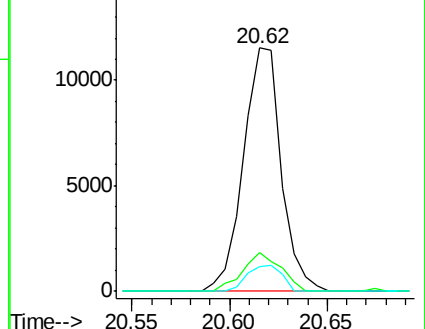
183 10.3 10.6 16.0#



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: 89.666 ng

RT: 20.62 min Scan# 2949

Delta R.T. -0.01 min

Lab File: BG032514.D

Acq: 2 Feb 2018 16:23

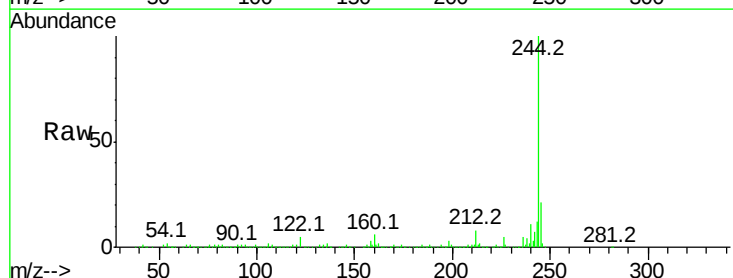
Tgt Ion:244 Resp: 1110949

Ion Ratio Lower Upper

244 100

212 7.5 5.8 8.8

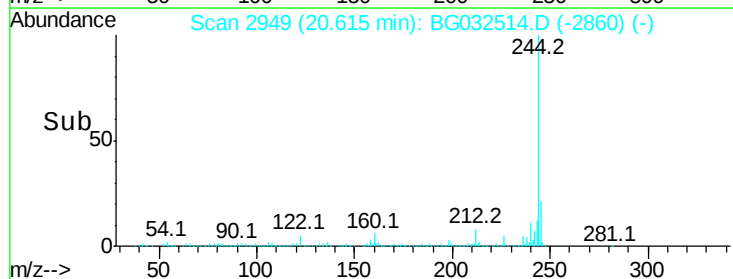
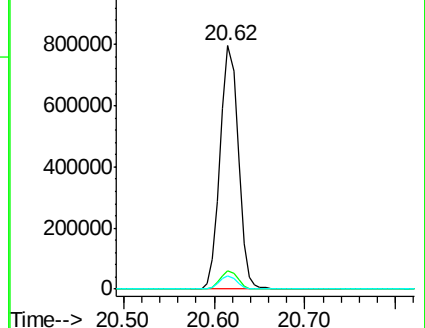
122 5.2 7.0 10.4#

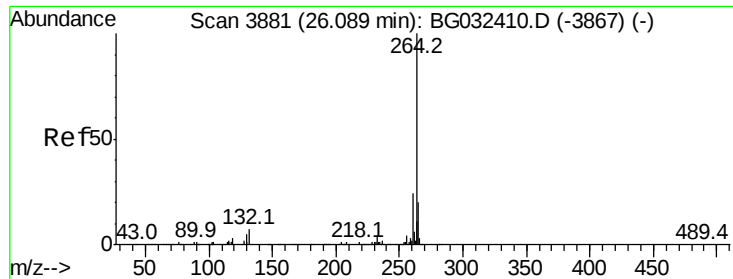


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

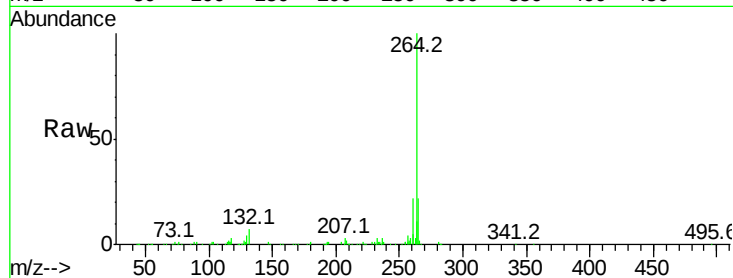




#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 26.09 min Scan# 3880  
 Delta R.T. -0.00 min  
 Lab File: BG032514.D  
 Acq: 2 Feb 2018 16:23

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.0  | 17.4  | 26.0  |
| 265     | 21.5  | 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

