

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG062118\  
 Data File : BG035322.D  
 Acq On : 22 Jun 2018 6:58  
 Operator : JU/SJ  
 Sample : J3603-16  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jun 22 08:45:23 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG060718.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 08 17:16:28 2018  
 Response via : Initial Calibration

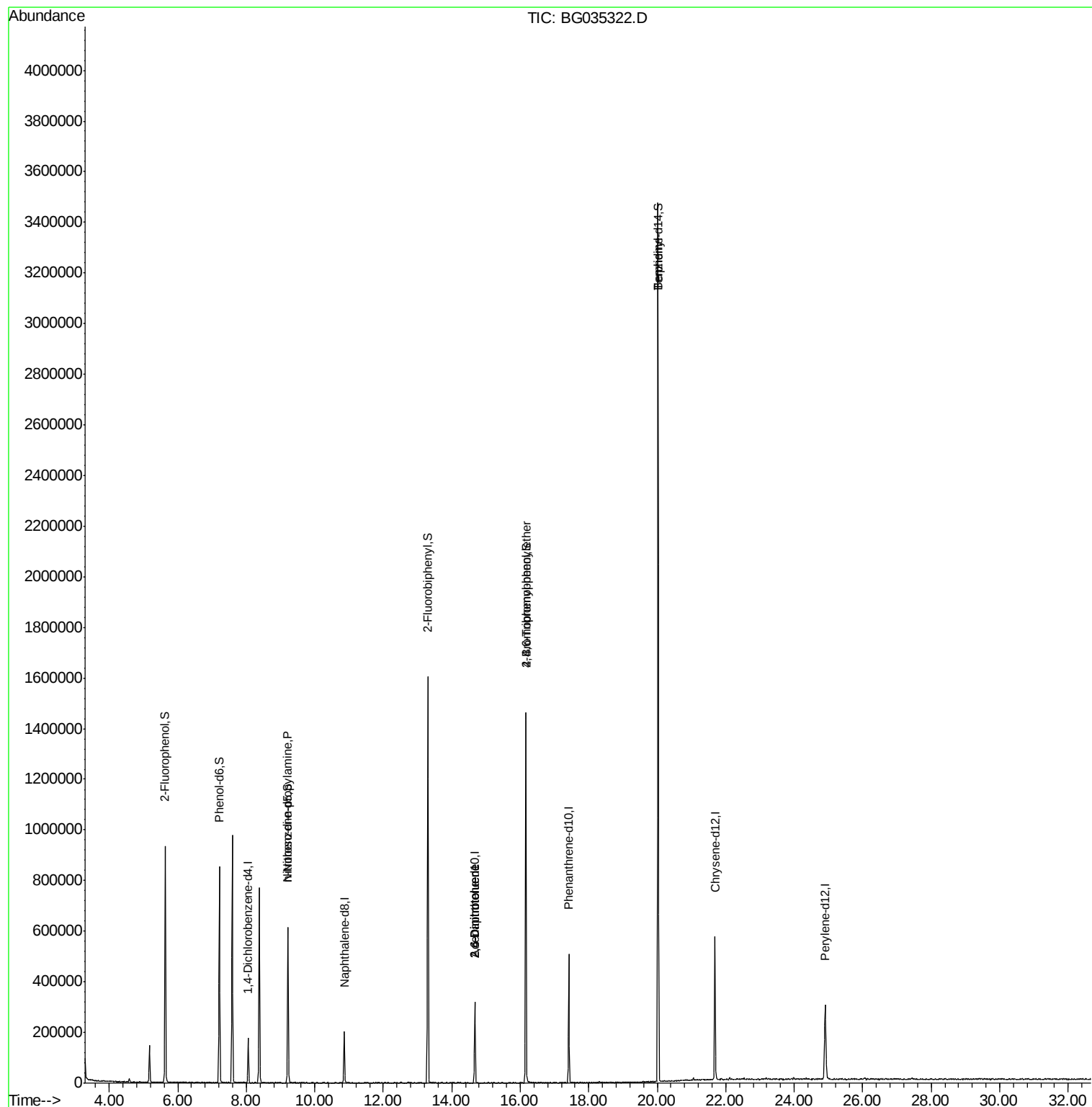
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.06  | 152  | 50275    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 10.86 | 136  | 170702   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 14.67 | 164  | 113943   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 17.42 | 188  | 315383   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12               | 21.69 | 240  | 370507   | 20.00  | ng    | -0.03    |
| 86) Perylene-d12               | 24.90 | 264  | 348712   | 20.00  | ng    | -0.05    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.64  | 112  | 412440   | 138.45 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.21  | 99   | 524518   | 119.29 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 9.21  | 82   | 407480   | 113.47 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 16.16 | 330  | 274862   | 188.44 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 13.30 | 172  | 888711   | 101.39 | ng    | -0.02    |
| 78) Terphenyl-d14              | 20.02 | 244  | 1721334  | 97.32  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.21  | 70   | 55589    | 14.881 | ng    | # 68     |
| 50) 2,6-Dinitrotoluene         | 14.68 | 165  | 16071    | 8.866  | ng    | # 21     |
| 56) 2,4-Dinitrotoluene         | 14.68 | 165  | 16071    | 6.674  | ng    | # 19     |
| 66) 4-Bromophenyl-phenylether  | 16.16 | 248  | 21198    | 5.581  | ng    | # 1      |
| 76) Benzidine                  | 20.02 | 184  | 28904    | 2.097  | ng    | # 89     |

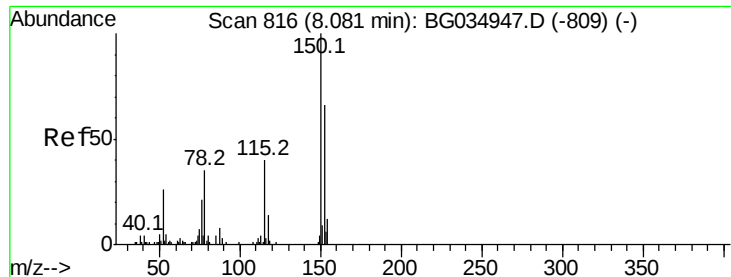
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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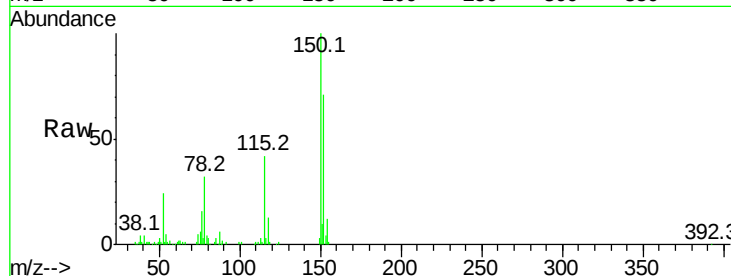


#1

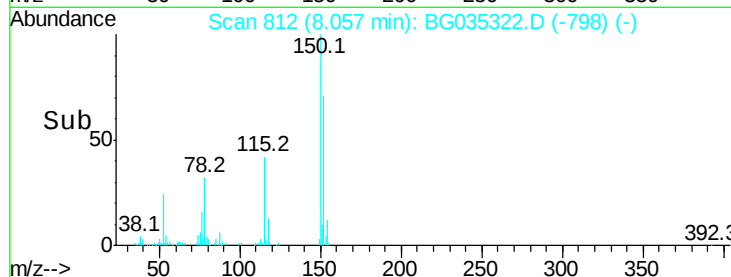
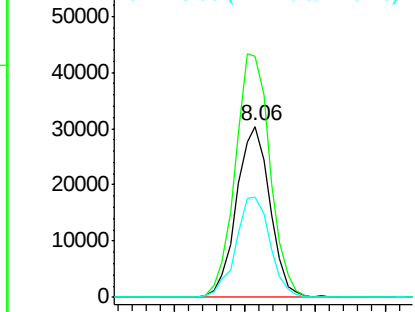
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.06 min Scan# 812  
Delta R.T. -0.02 min  
Lab File: BG035322.D  
Acq: 22 Jun 2018 6:58

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 141.4 | 126.6 | 189.8 |
| 115     | 58.9  | 53.0  | 79.4  |



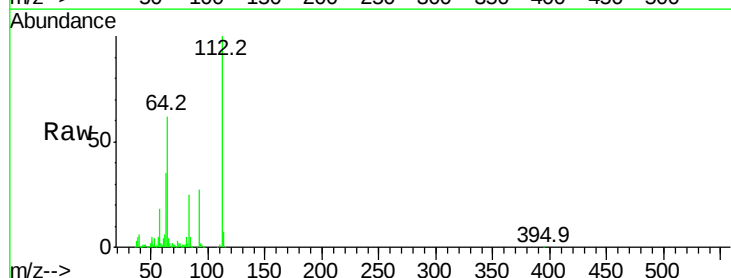
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



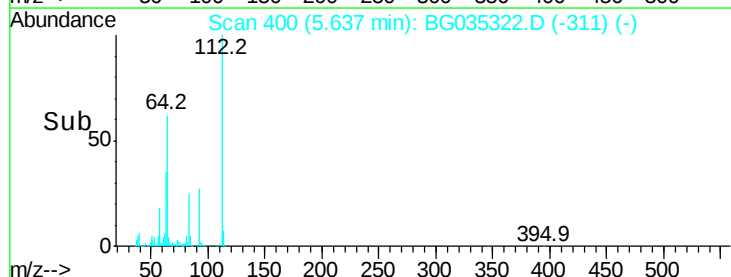
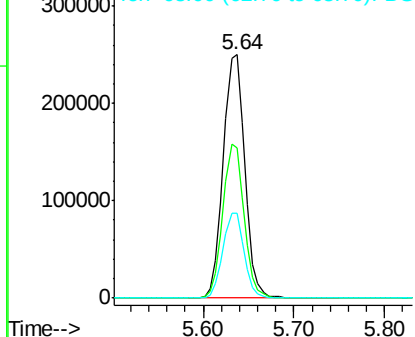
#5

2-Fluorophenol  
Concen: 138.446 ng  
RT: 5.64 min Scan# 400  
Delta R.T. -0.01 min  
Lab File: BG035322.D  
Acq: 22 Jun 2018 6:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 61.6  | 56.3  | 84.5  |
| 63      | 34.8  | 30.1  | 45.1  |



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





#7

Phenol-d6

Concen: 119.292 ng

RT: 7.21 min Scan# 668

Delta R.T. -0.01 min

Lab File: BG035322.D

Acq: 22 Jun 2018 6:58

Instrument :

BNA\_G

ClientSampleId :

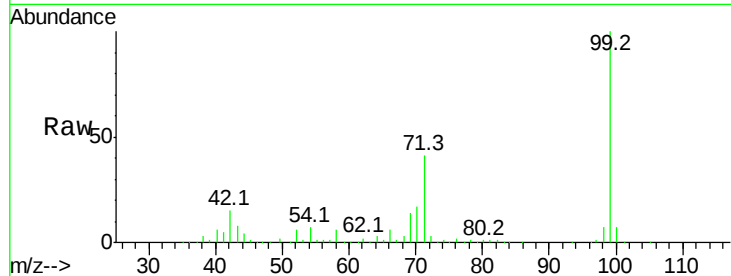
Tot Ion: 99 Resp: 524518

Ion Ratio Lower Upper

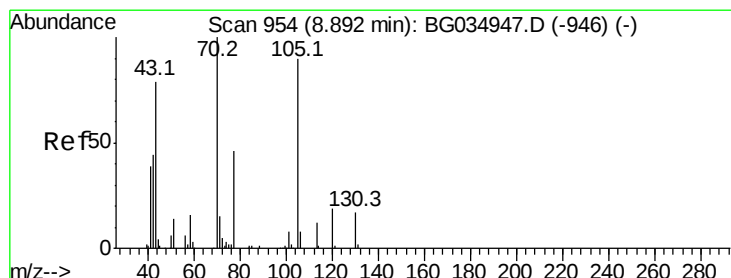
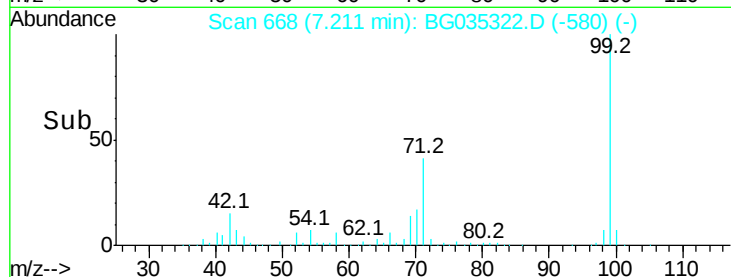
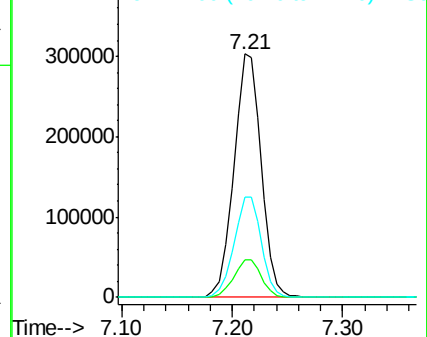
99 100

42 15.4 14.1 21.1

71 41.2 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: 14.881 ng

RT: 9.21 min Scan# 1009

Delta R.T. 0.33 min

Lab File: BG035322.D

Acq: 22 Jun 2018 6:58

Tgt Ion: 70 Resp: 55589

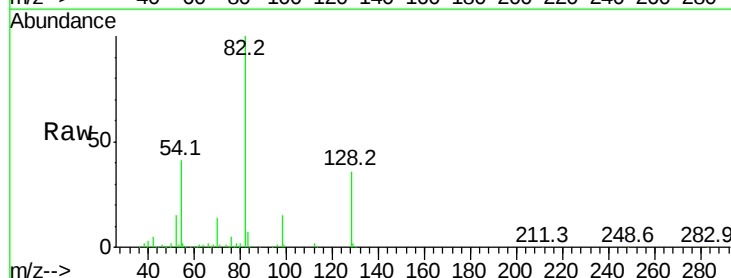
Ion Ratio Lower Upper

70 100

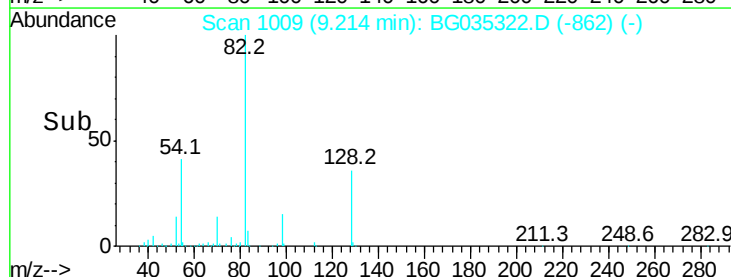
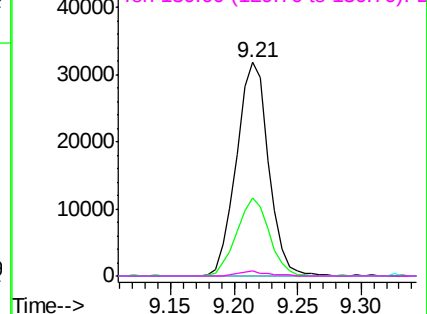
42 36.6 49.1 73.7#

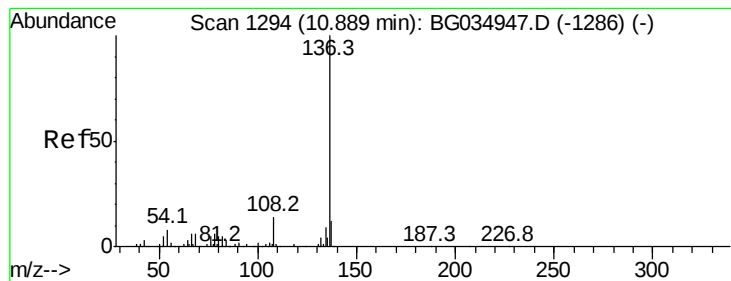
101 0.0 8.5 12.7#

130 2.2 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: 10.86 min Scan# 1289

Delta R.T. -0.02 min

Lab File: BG035322.D

Acq: 22 Jun 2018 6:58

Instrument :

BNA\_G

ClientSampled :

Tot Ion:136 Resp: 170702

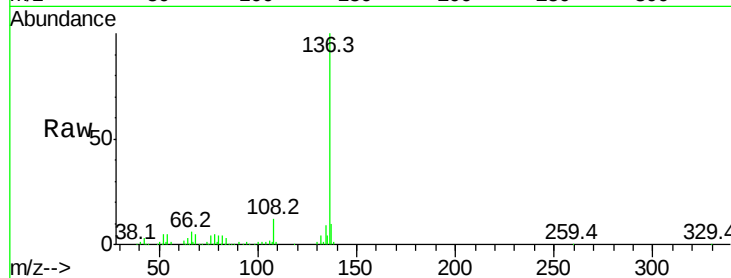
Ion Ratio Lower Upper

136 100

137 10.2 9.2 13.8

54 5.5 10.3 15.5#

68 5.2 4.5 6.7

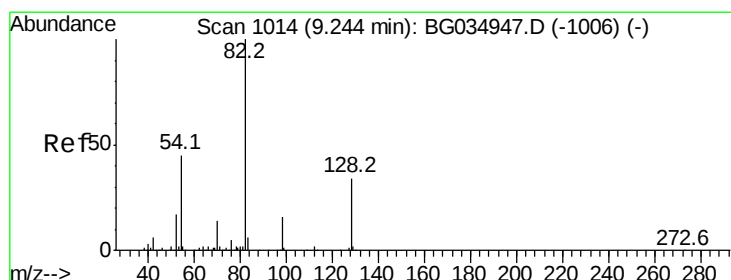
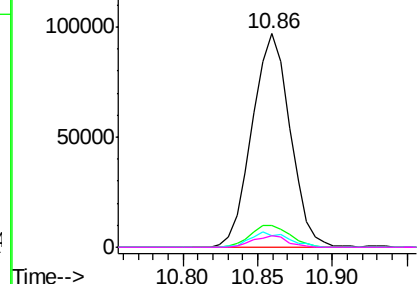
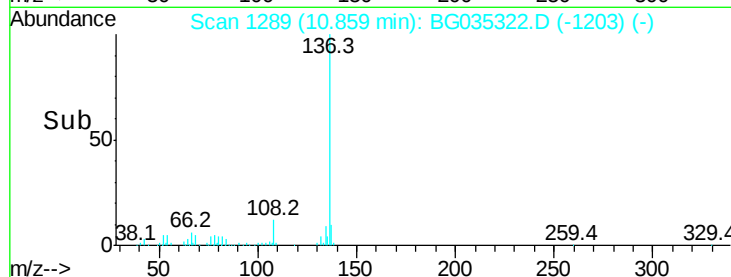


Abundance Ion 136.00 (135.70 to 136.70): E

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: 113.468 ng

RT: 9.21 min Scan# 1009

Delta R.T. -0.02 min

Lab File: BG035322.D

Acq: 22 Jun 2018 6:58

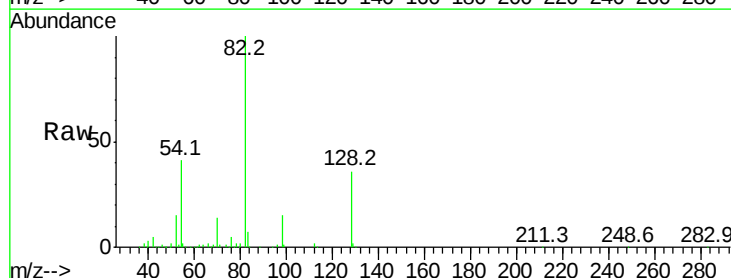
Tgt Ion: 82 Resp: 407480

Ion Ratio Lower Upper

82 100

128 36.1 29.7 44.5

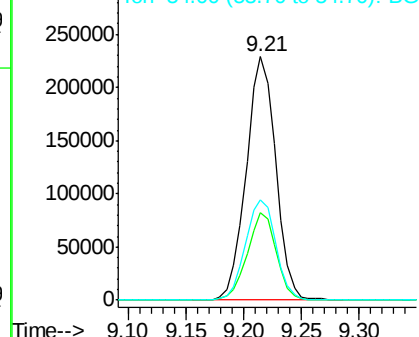
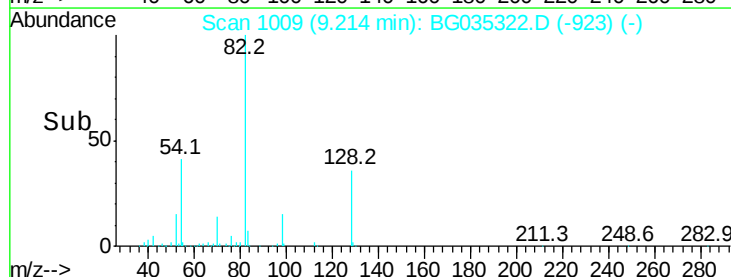
54 41.2 43.1 64.7#

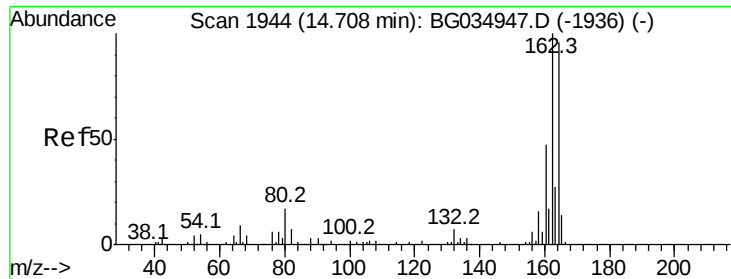


Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BGC

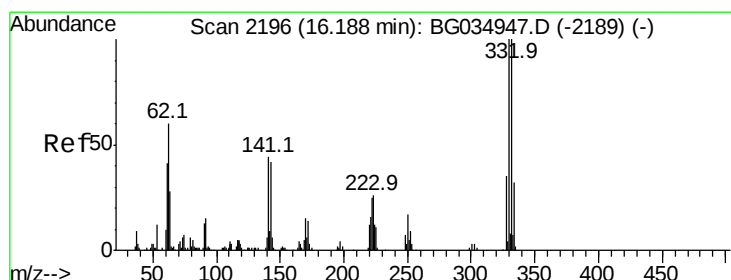
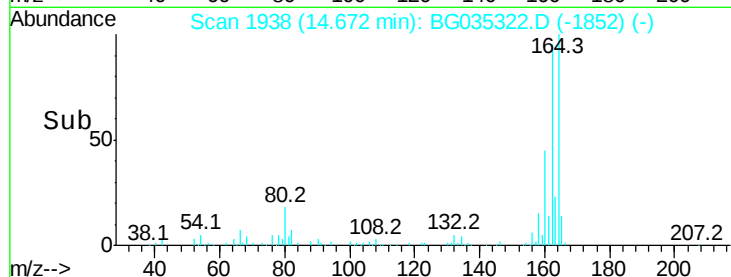
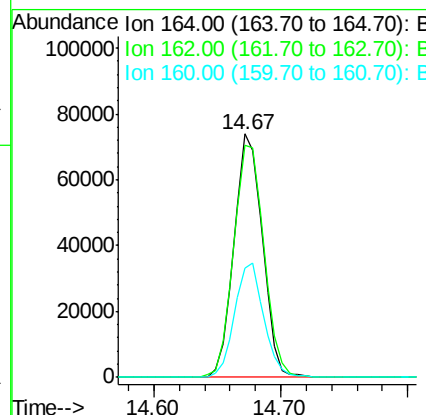
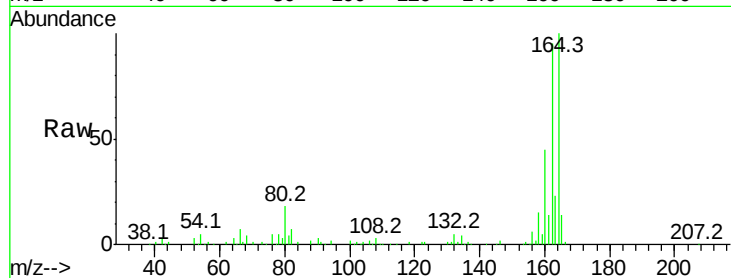




#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.67 min Scan# 1938  
 Delta R.T. -0.02 min  
 Lab File: BG035322.D  
 Acq: 22 Jun 2018 6:58

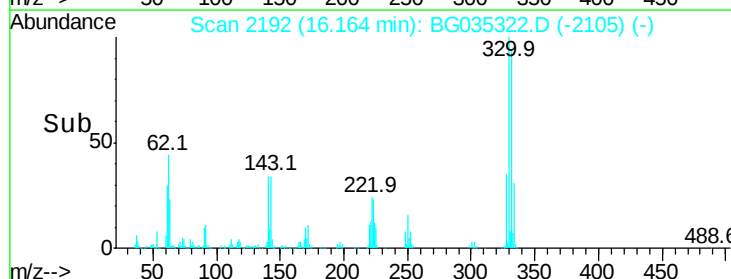
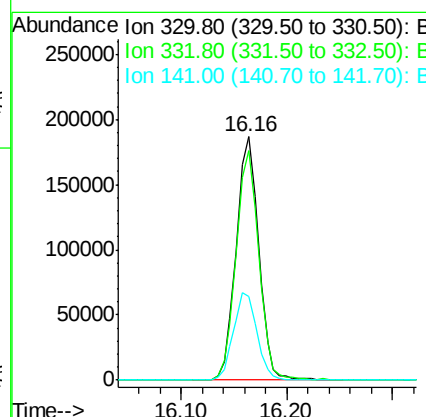
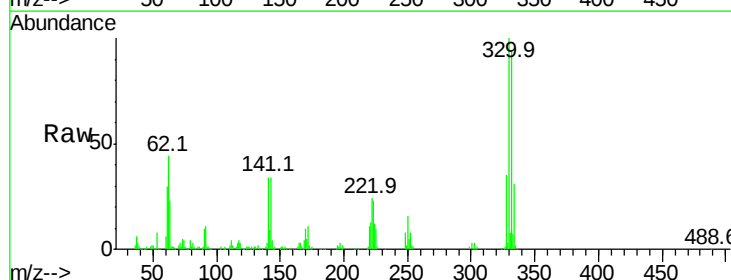
Instrument :  
 BNA\_G  
 ClientSampleId :

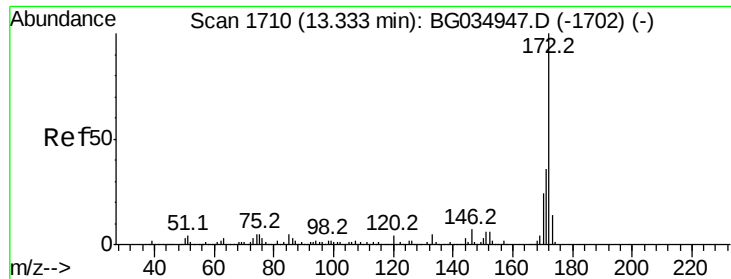
Tot Ion:164 Resp: 113943  
 Ion Ratio Lower Upper  
 164 100  
 162 95.5 78.8 118.2  
 160 44.9 35.4 53.0



#41  
 2,4,6-Tribromophenol  
 Concen: 188.440 ng  
 RT: 16.16 min Scan# 2192  
 Delta R.T. -0.02 min  
 Lab File: BG035322.D  
 Acq: 22 Jun 2018 6:58

Tgt Ion:330 Resp: 274862  
 Ion Ratio Lower Upper  
 330 100  
 332 94.6 77.0 115.6  
 141 37.4 25.2 37.8

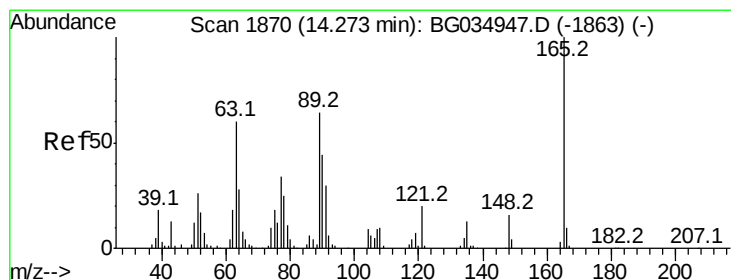
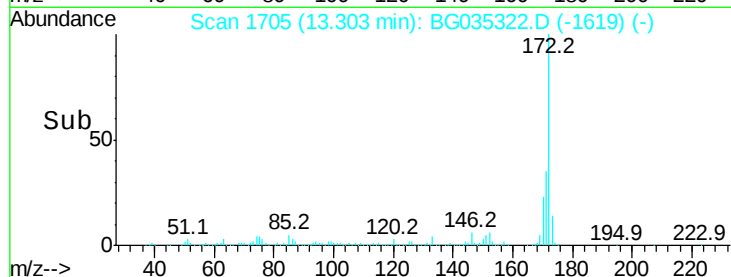
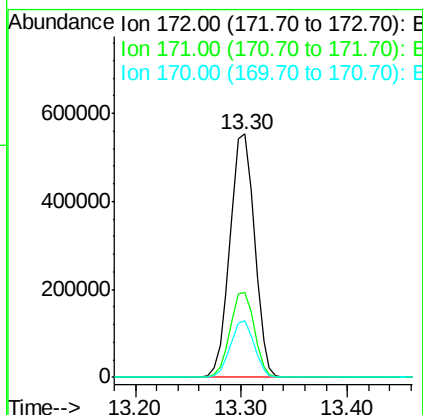
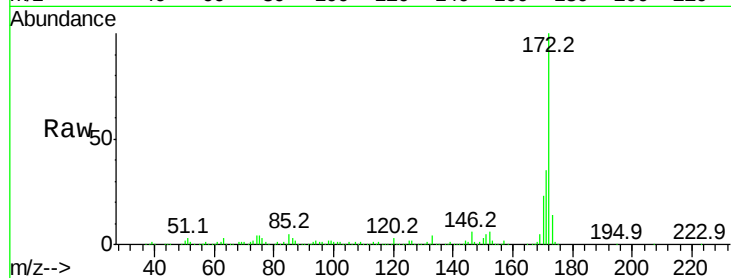




#44  
2-Fluorobiphenyl  
Concen: 101.395 ng  
RT: 13.30 min Scan# 1705  
Delta R.T. -0.02 min  
Lab File: BG035322.D  
Acq: 22 Jun 2018 6:58

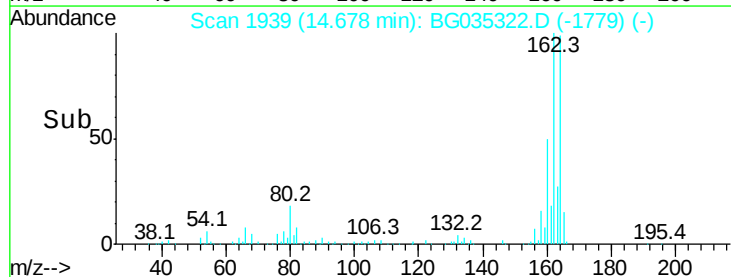
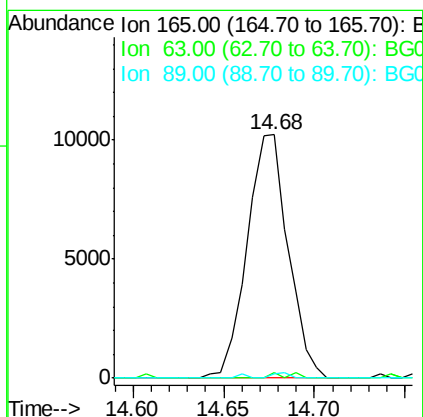
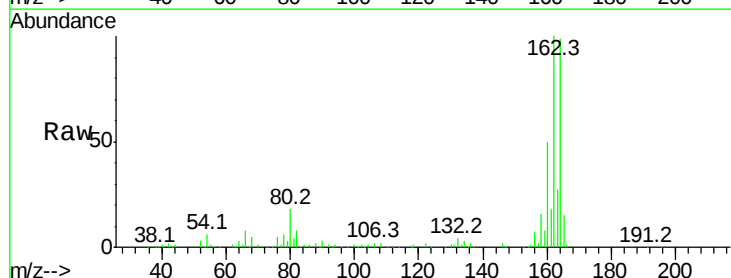
Instrument :  
BNA\_G  
ClientSampleId :

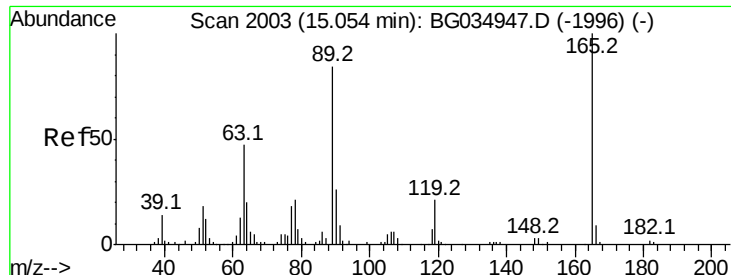
Tot Ion:172 Resp: 888711  
Ion Ratio Lower Upper  
172 100  
171 35.1 30.0 45.0  
170 23.2 19.5 29.3



#50  
2,6-Dinitrotoluene  
Concen: 8.866 ng  
RT: 14.68 min Scan# 1939  
Delta R.T. 0.41 min  
Lab File: BG035322.D  
Acq: 22 Jun 2018 6:58

Tgt Ion:165 Resp: 16071  
Ion Ratio Lower Upper  
165 100  
63 2.1 52.7 79.1#  
89 1.8 49.2 73.8#

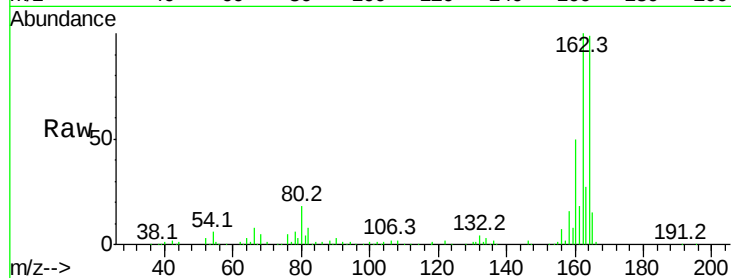




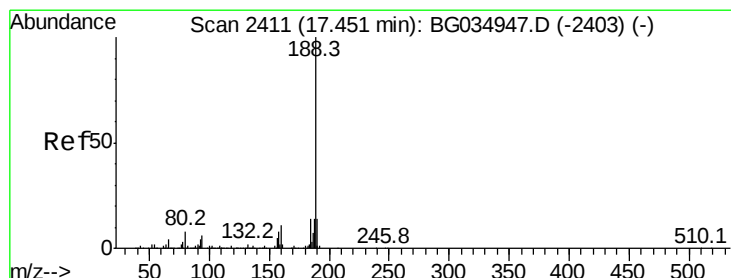
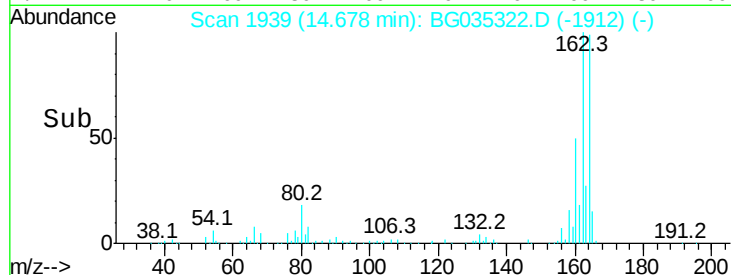
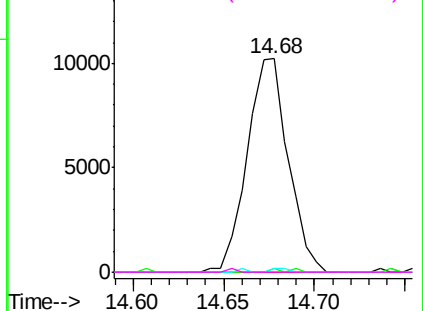
#56  
 2,4-Dinitrotoluene  
 Concen: 6.674 ng  
 RT: 14.68 min Scan# 1939  
 Delta R.T. -0.37 min  
 Lab File: BG035322.D  
 Acq: 22 Jun 2018 6:58

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:165 Resp: 16071  
 Ion Ratio Lower Upper  
 165 100  
 63 2.1 42.0 63.0#  
 89 1.8 66.9 100.3#  
 182 0.0 2.6 3.8#

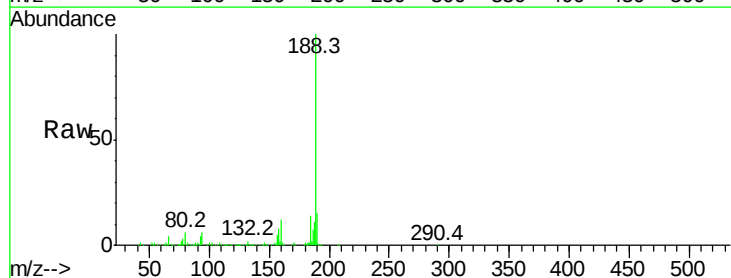


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC  
 Ion 182.00 (181.70 to 182.70): E

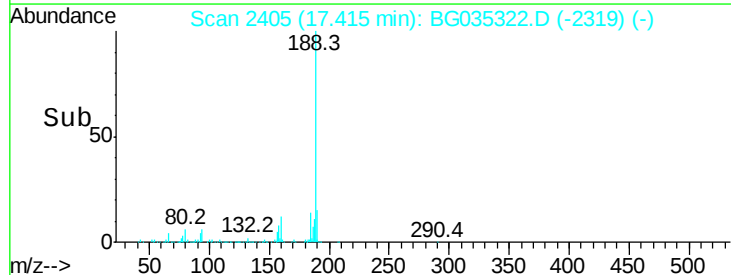
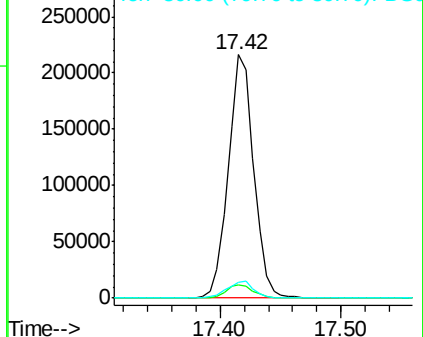


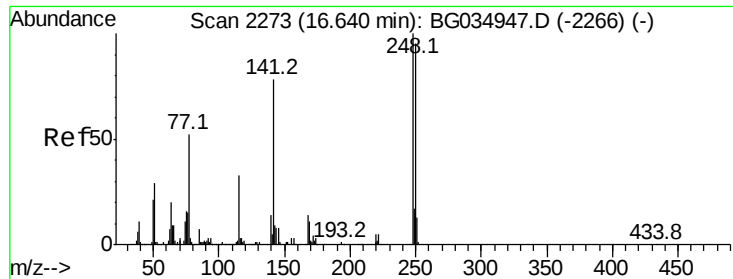
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.42 min Scan# 2405  
 Delta R.T. -0.02 min  
 Lab File: BG035322.D  
 Acq: 22 Jun 2018 6:58

Tgt Ion:188 Resp: 315383  
 Ion Ratio Lower Upper  
 188 100  
 94 5.5 6.9 10.3#  
 80 6.4 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

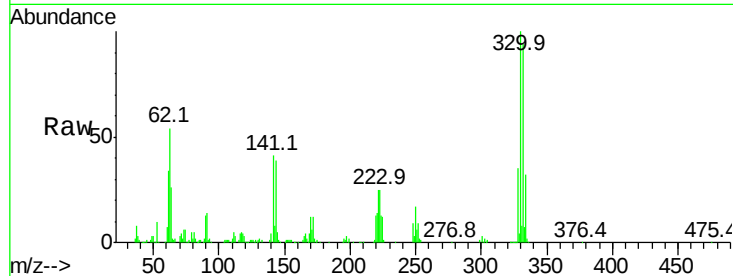




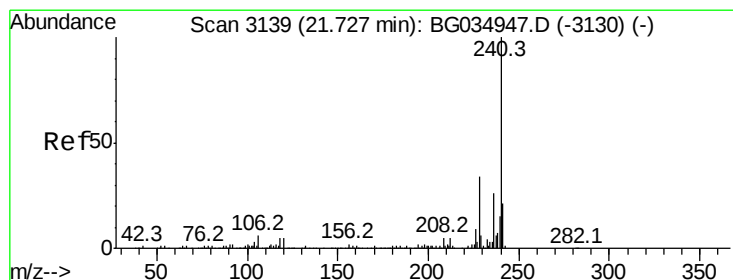
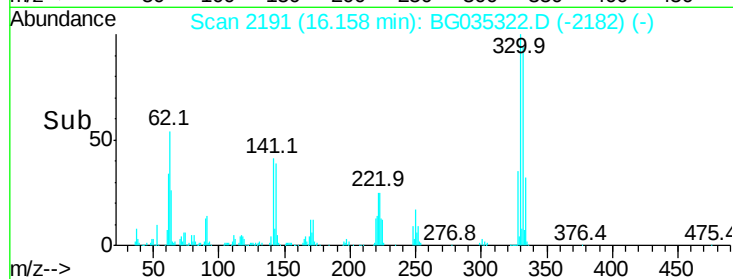
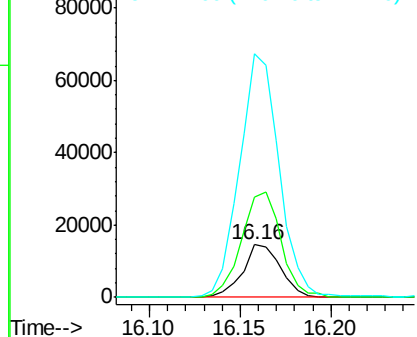
#66  
4-Bromophenyl-phenylether  
Concen: 5.581 ng  
RT: 16.16 min Scan# 2191  
Delta R.T. -0.48 min  
Lab File: BG035322.D  
Acq: 22 Jun 2018 6:58

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:248 Resp: 21198  
Ion Ratio Lower Upper  
248 100  
250 190.3 77.1 115.7#  
141 463.5 50.8 76.2#

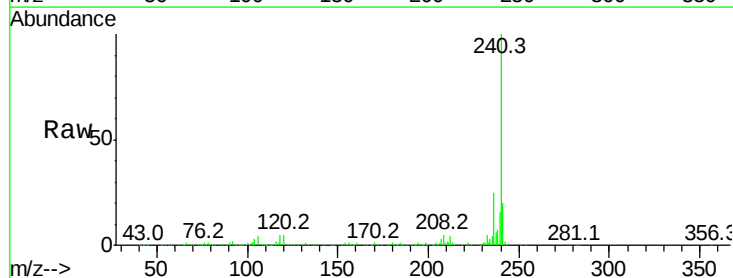


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

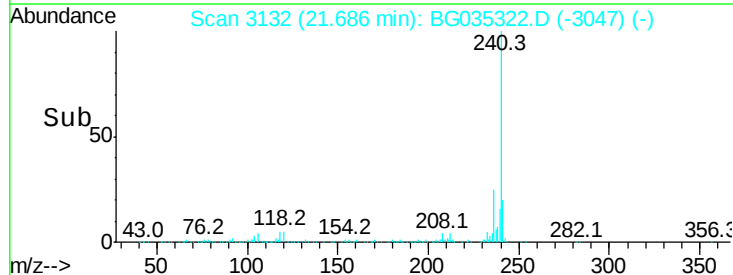
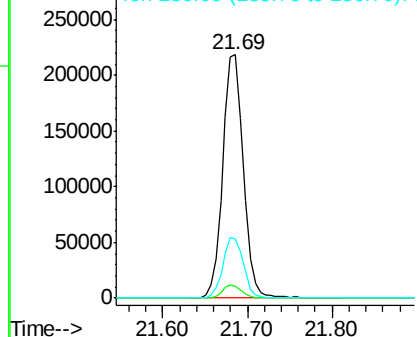


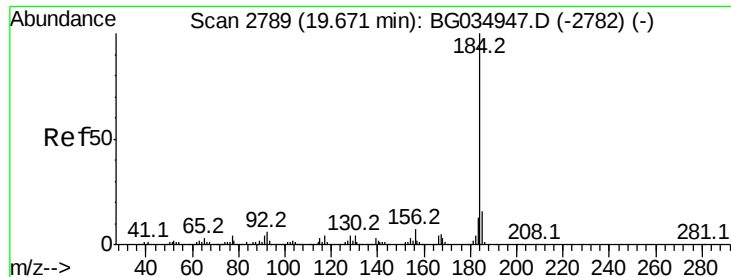
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.69 min Scan# 3132  
Delta R.T. -0.03 min  
Lab File: BG035322.D  
Acq: 22 Jun 2018 6:58

Tgt Ion:240 Resp: 370507  
Ion Ratio Lower Upper  
240 100  
120 5.0 6.8 10.2#  
236 24.6 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: 2.097 ng

RT: 20.02 min Scan# 2849

Delta R.T. 0.36 min

Lab File: BG035322.D

Acq: 22 Jun 2018 6:58

Instrument :

BNA\_G

ClientSampleId :

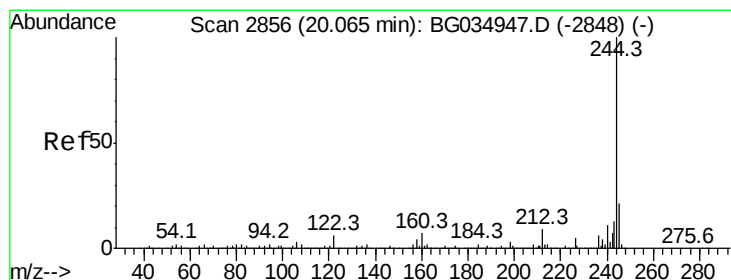
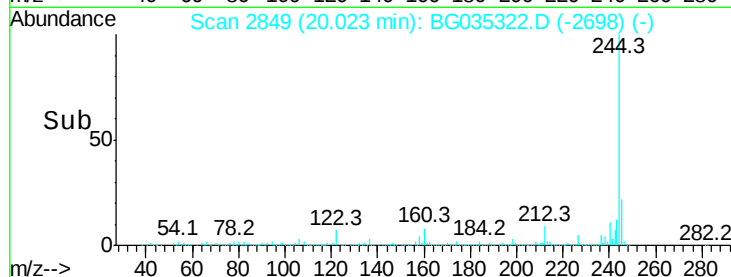
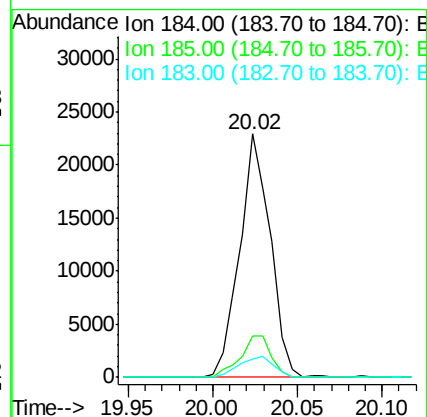
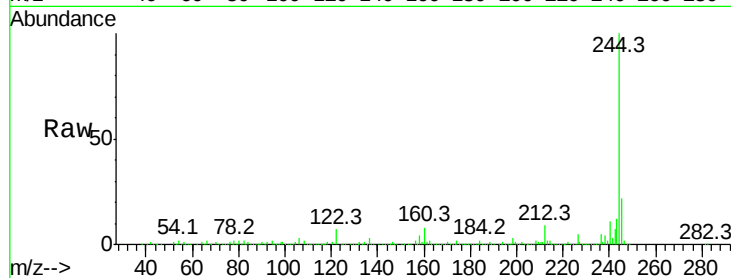
Tot Ion:184 Resp: 28904

Ion Ratio Lower Upper

184 100

185 17.1 11.1 16.7#

183 7.8 10.6 16.0#



#78

Terphenyl-d14

Concen: 97.316 ng

RT: 20.02 min Scan# 2849

Delta R.T. -0.02 min

Lab File: BG035322.D

Acq: 22 Jun 2018 6:58

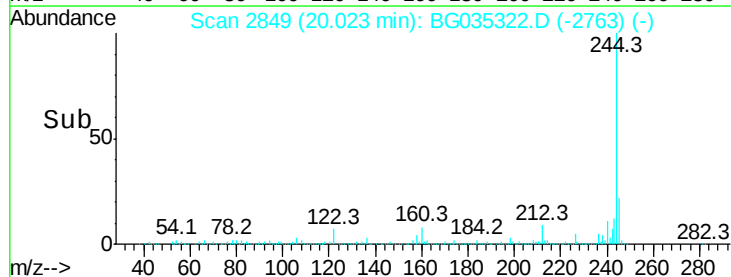
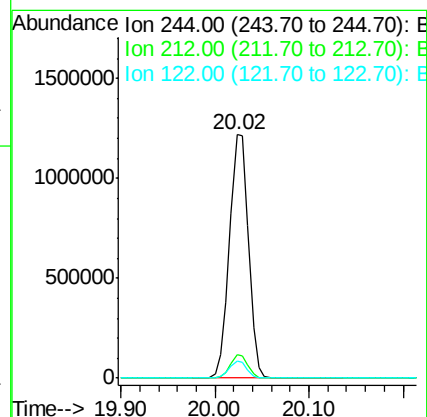
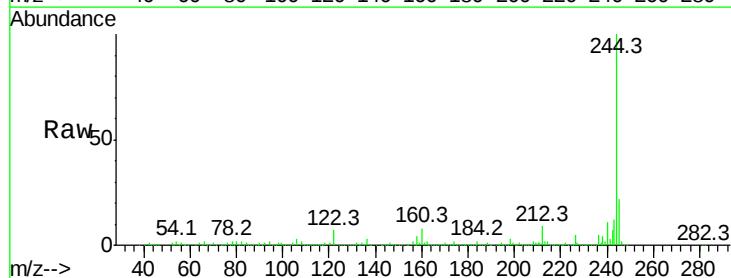
Tgt Ion:244 Resp: 1721334

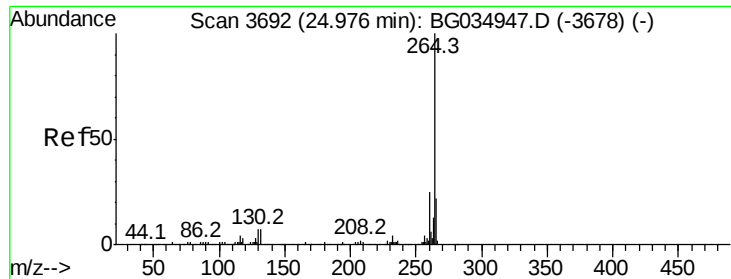
Ion Ratio Lower Upper

244 100

212 9.4 5.8 8.8#

122 7.1 7.0 10.4

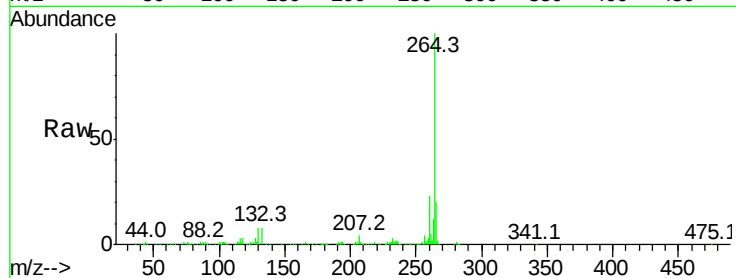




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 24.90 min Scan# 3679  
Delta R.T. -0.05 min  
Lab File: BG035322.D  
Acq: 22 Jun 2018 6:58

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.9  | 17.4  | 26.0  |
| 265     | 19.6  | 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

