

Data Path : Z:\HPCHEM1\BNA G\DATA\BG011718\  
 Data File : BG032126.D  
 Acq On : 18 Jan 2018 7:08  
 Operator : SJ/JU  
 Sample : J1167-02  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jan 18 07:58:25 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG011218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 15 10:05:15 2018  
 Response via : Initial Calibration

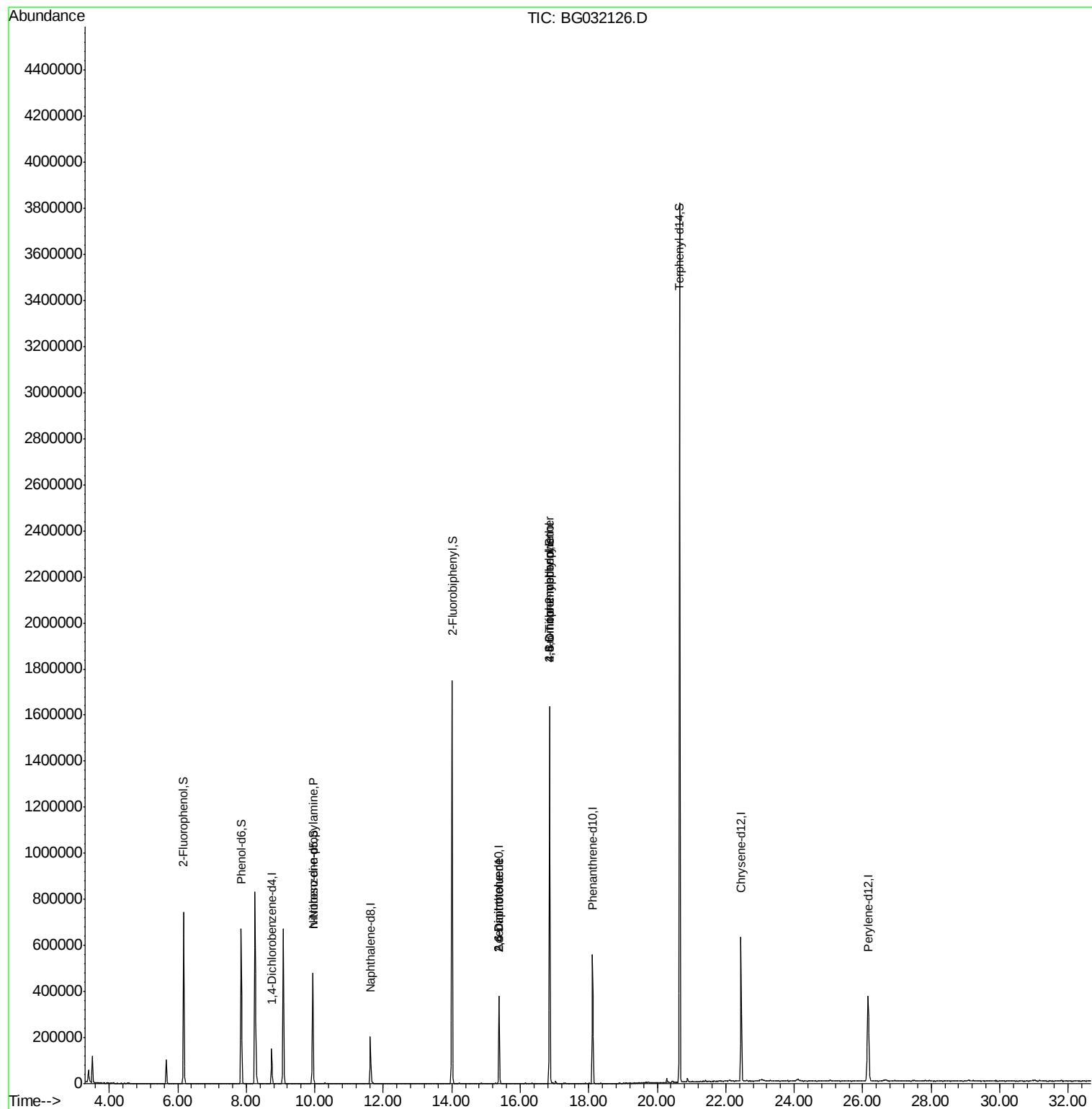
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.74  | 152  | 51862    | 20.00  | ng    | -0.04    |
| 21) Naphthalene-d8             | 11.62 | 136  | 205169   | 20.00  | ng    | -0.04    |
| 38) Acenaphthene-d10           | 15.38 | 164  | 143558   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 18.11 | 188  | 390237   | 20.00  | ng    | -0.03    |
| 75) Chrysene-d12               | 22.45 | 240  | 476869   | 20.00  | ng    | -0.04    |
| 86) Perylene-d12               | 26.15 | 264  | 505962   | 20.00  | ng    | -0.06    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.17  | 112  | 380244   | 134.09 | ng    | -0.02    |
| 7) Phenol-d6                   | 7.85  | 99   | 434359   | 121.62 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 9.94  | 82   | 309488   | 102.05 | ng    | -0.04    |
| 41) 2,4,6-Tribromophenol       | 16.86 | 330  | 374672   | 157.72 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 14.01 | 172  | 1058604  | 91.43  | ng    | -0.02    |
| 78) Terphenyl-d14              | 20.66 | 244  | 2124554  | 98.37  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.94  | 70   | 43587    | 19.671 | ng    | # 73     |
| 50) 2,6-Dinitrotoluene         | 15.38 | 165  | 18963    | 7.272  | ng    | # 19     |
| 56) 2,4-Dinitrotoluene         | 15.38 | 165  | 18963    | 5.402  | ng    | # 17     |
| 64) 4,6-Dinitro-2-methylphenol | 16.86 | 198  | 1292     | 5.349  | ng    | # 66     |
| 66) 4-Bromophenyl-phenylether  | 16.85 | 248  | 31585    | 5.689  | ng    | # 1      |

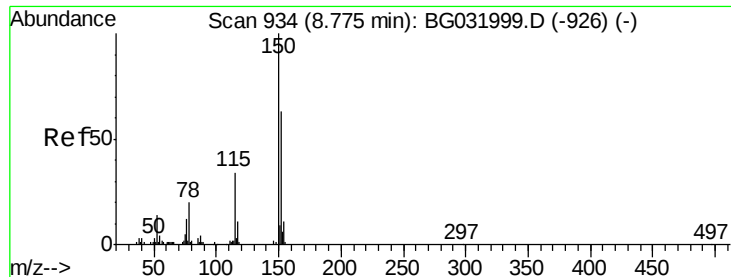
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG011218.M  
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QLast Update : Mon Jan 15 10:05:15 2018  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.74 min Scan# 928

Delta R.T. -0.04 min

Lab File: BG032126.D

Acq: 18 Jan 2018 7:08

Instrument :

BNA\_G

ClientSampleId :

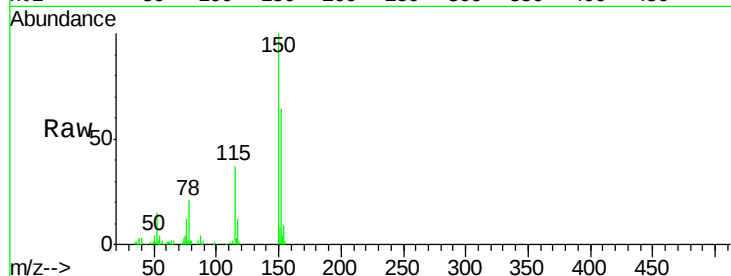
Tot Ion:152 Resp: 51862

Ion Ratio Lower Upper

152 100

150 155.0 126.6 189.8

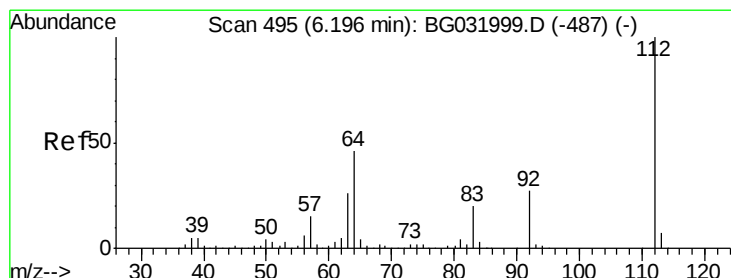
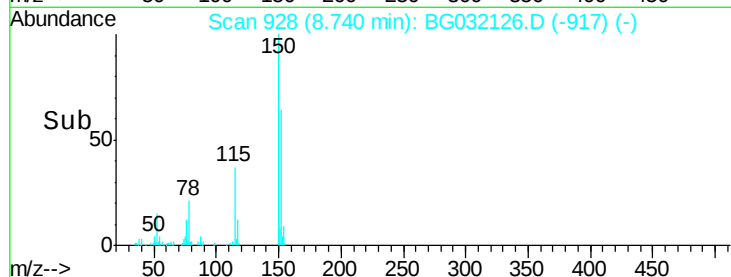
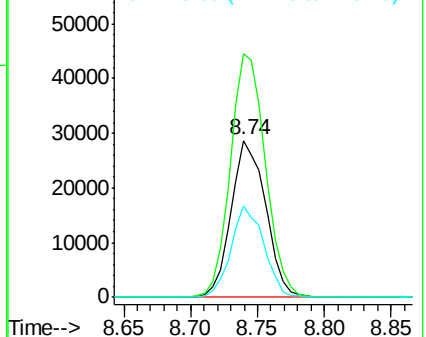
115 57.8 53.0 79.4



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: 134.094 ng

RT: 6.17 min Scan# 491

Delta R.T. -0.02 min

Lab File: BG032126.D

Acq: 18 Jan 2018 7:08

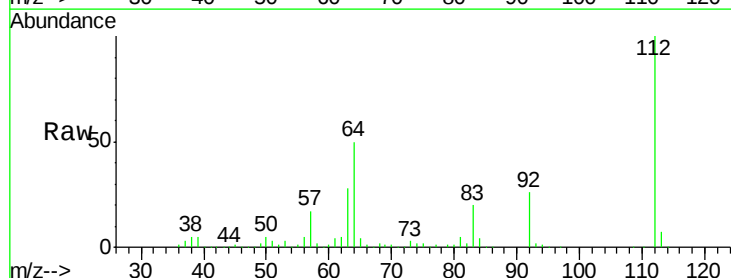
Tgt Ion:112 Resp: 380244

Ion Ratio Lower Upper

112 100

64 50.3 56.3 84.5#

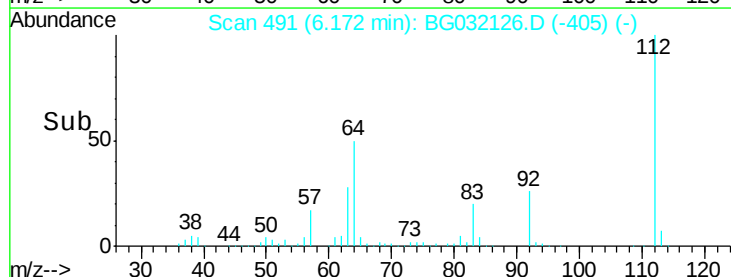
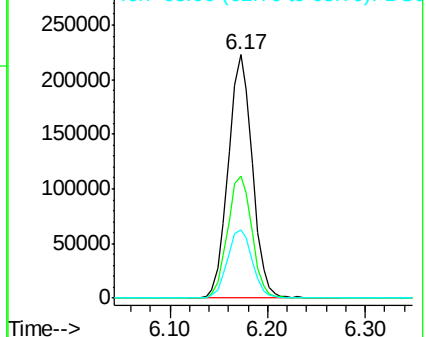
63 28.2 30.1 45.1#

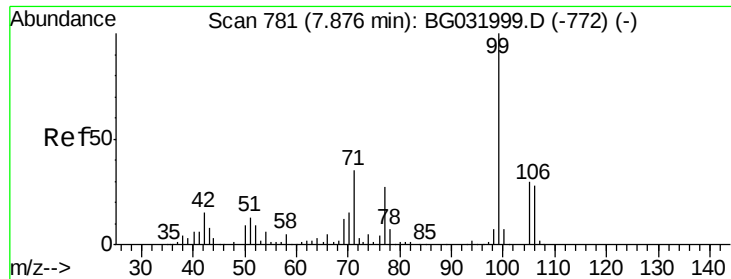


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 121.624 ng

RT: 7.85 min Scan# 777

Delta R.T. -0.02 min

Lab File: BG032126.D

Acq: 18 Jan 2018 7:08

Instrument :

BNA\_G

ClientSampleId :

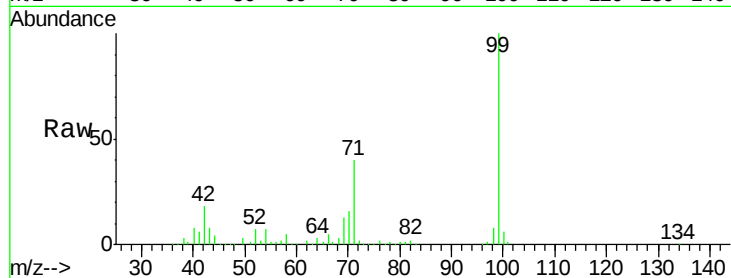
Tot Ion: 99 Resp: 434359

Ion Ratio Lower Upper

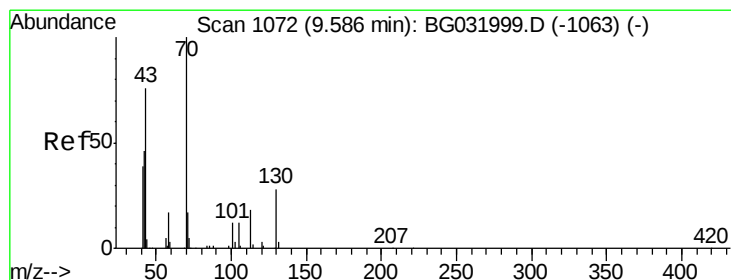
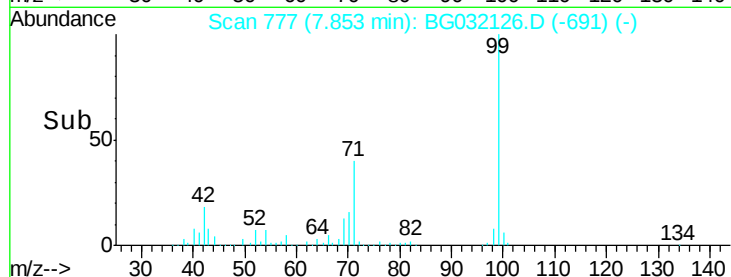
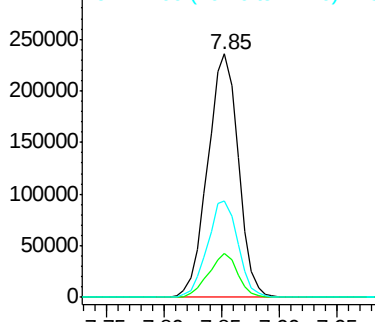
99 100

42 18.1 14.1 21.1

71 39.8 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: 19.671 ng

RT: 9.94 min Scan# 1133

Delta R.T. 0.36 min

Lab File: BG032126.D

Acq: 18 Jan 2018 7:08

Tgt Ion: 70 Resp: 43587

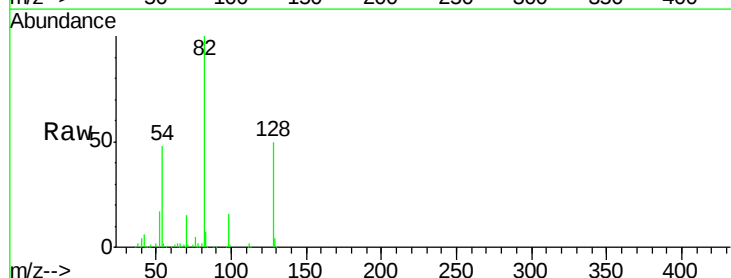
Ion Ratio Lower Upper

70 100

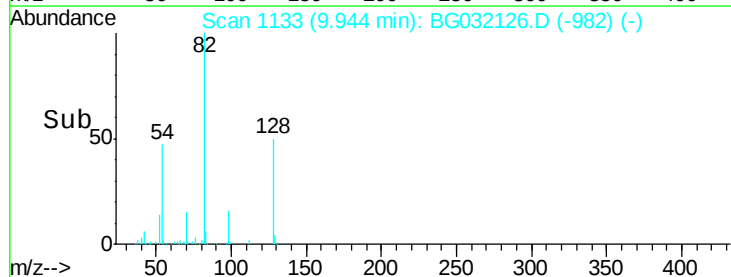
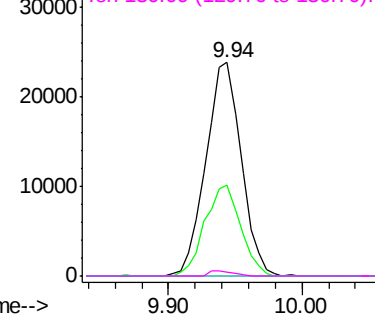
42 42.7 49.1 73.7#

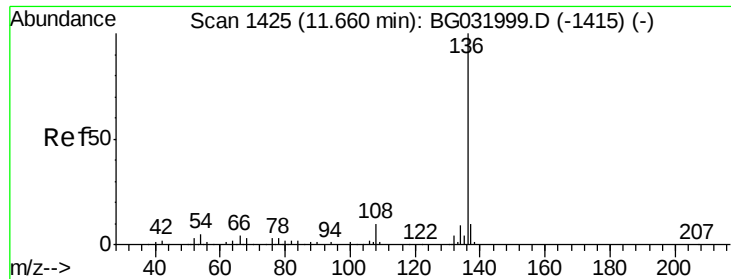
101 0.0 8.5 12.7#

130 1.8 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

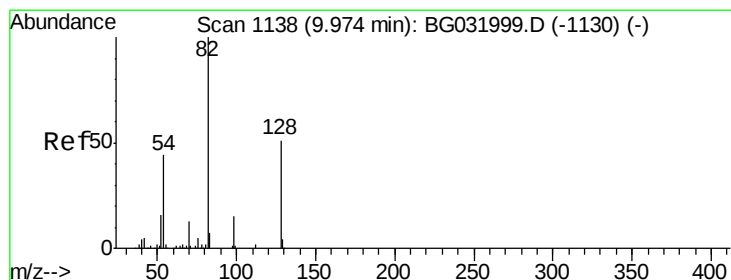
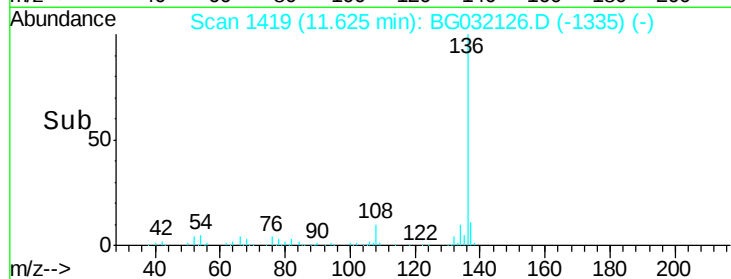
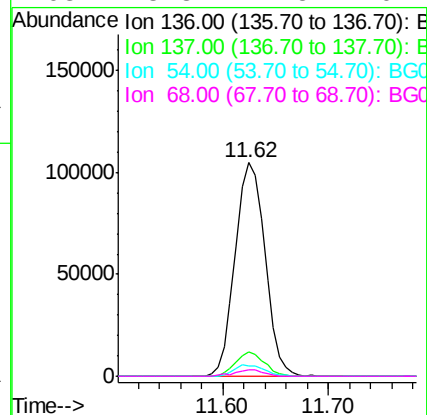
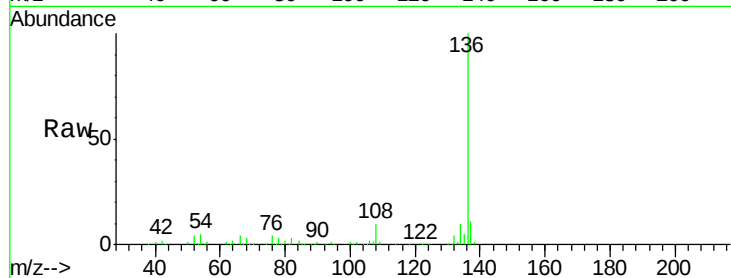




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.62 min Scan# 1419  
Delta R.T. -0.04 min  
Lab File: BG032126.D  
Acq: 18 Jan 2018 7:08

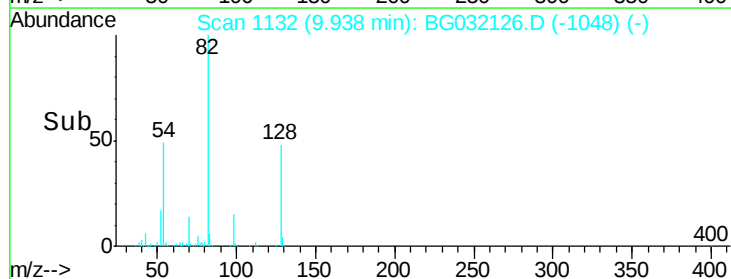
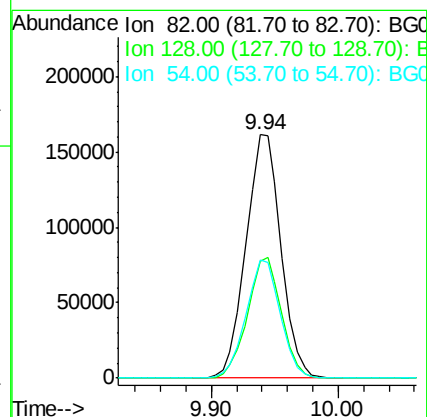
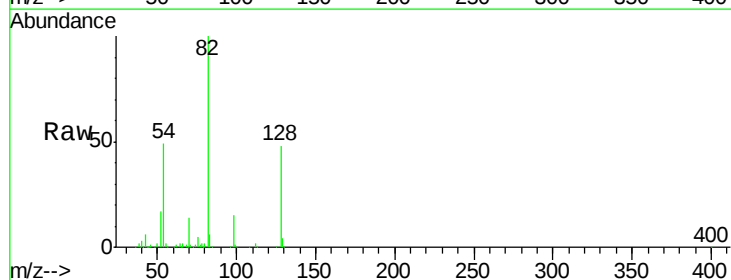
Instrument :  
BNA\_G  
ClientSampleId :

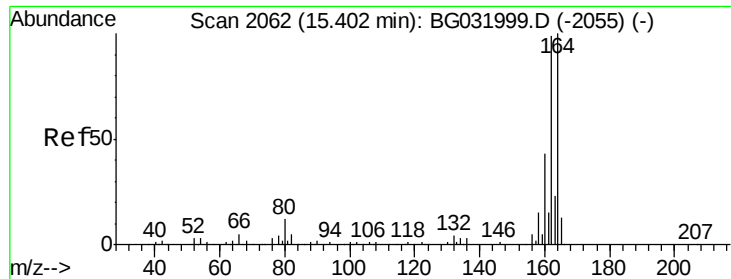
|             |       |            |
|-------------|-------|------------|
| Tot Ion:136 | Resp: | 205169     |
| Ion Ratio   | Lower | Upper      |
| 136         | 100   |            |
| 137         | 11.4  | 9.2 13.8   |
| 54          | 4.9   | 10.3 15.5# |
| 68          | 3.3   | 4.5 6.7#   |



#23  
Nitrobenzene-d5  
Concen: 102.053 ng  
RT: 9.94 min Scan# 1132  
Delta R.T. -0.04 min  
Lab File: BG032126.D  
Acq: 18 Jan 2018 7:08

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 82 | Resp: | 309488     |
| Ion Ratio   | Lower | Upper      |
| 82          | 100   |            |
| 128         | 47.9  | 29.7 44.5# |
| 54          | 48.5  | 43.1 64.7  |





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 15.38 min Scan# 2058

Delta R.T. -0.02 min

Lab File: BG032126.D

Acq: 18 Jan 2018 7:08

Instrument :

BNA\_G

ClientSampleId :

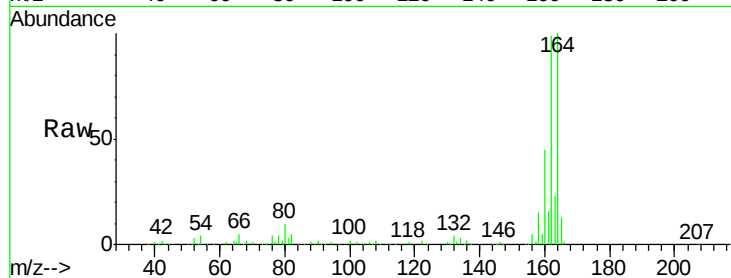
Tot Ion:164 Resp: 143558

Ion Ratio Lower Upper

164 100

162 99.2 78.8 118.2

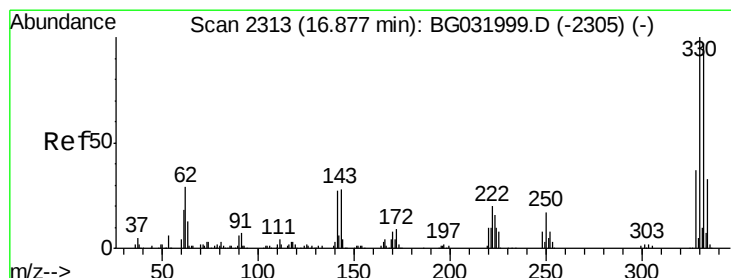
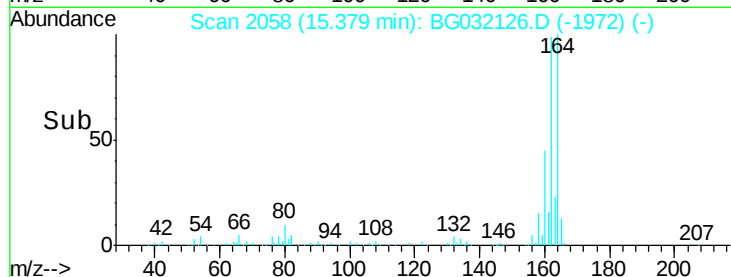
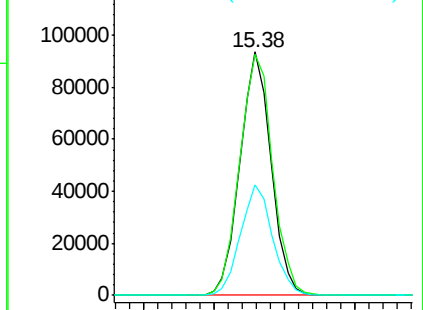
160 45.2 35.4 53.0



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: 157.720 ng

RT: 16.86 min Scan# 2310

Delta R.T. -0.02 min

Lab File: BG032126.D

Acq: 18 Jan 2018 7:08

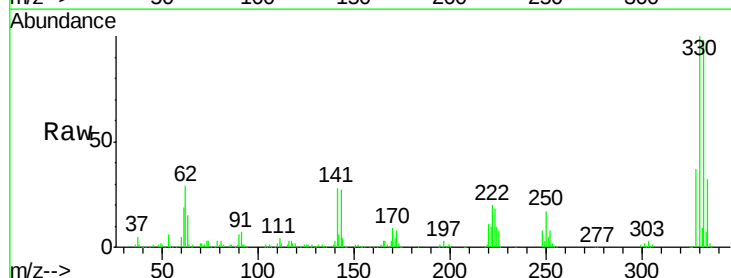
Tgt Ion:330 Resp: 374672

Ion Ratio Lower Upper

330 100

332 98.3 77.0 115.6

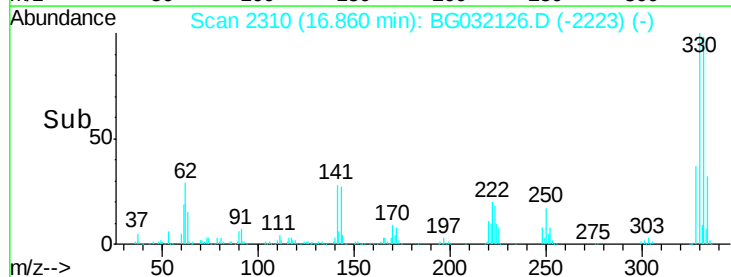
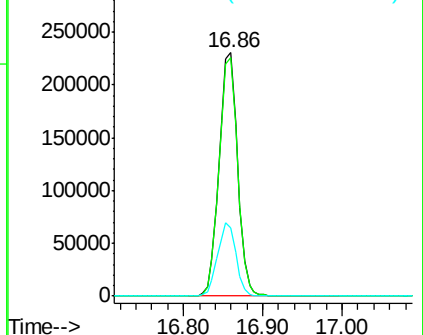
141 29.9 25.2 37.8

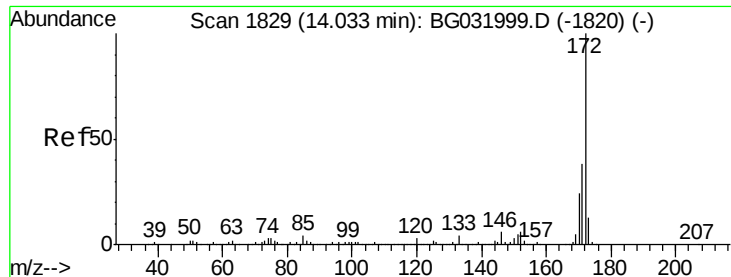


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

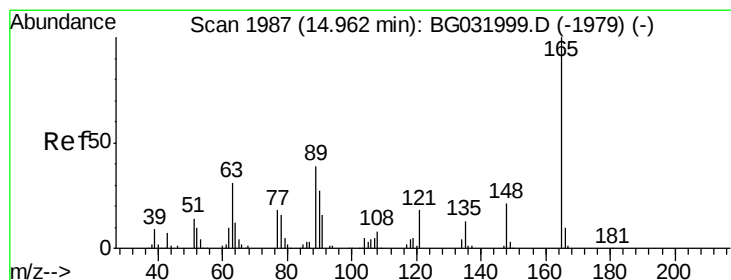
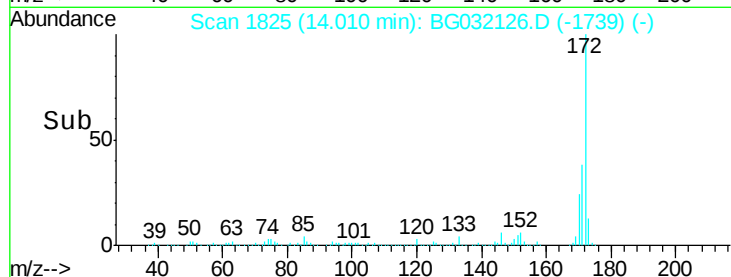
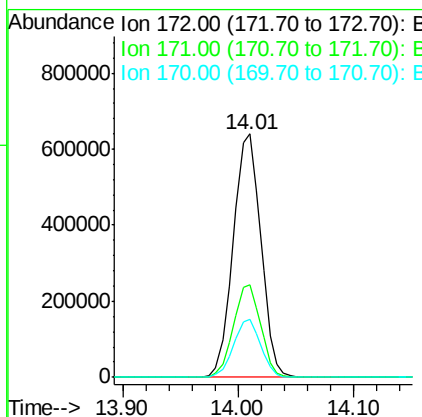
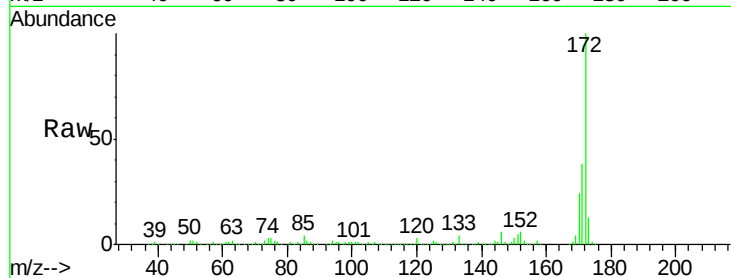




#44  
2-Fluorobiphenyl  
Concen: 91.435 ng  
RT: 14.01 min Scan# 1825  
Delta R.T. -0.02 min  
Lab File: BG032126.D  
Acq: 18 Jan 2018 7:08

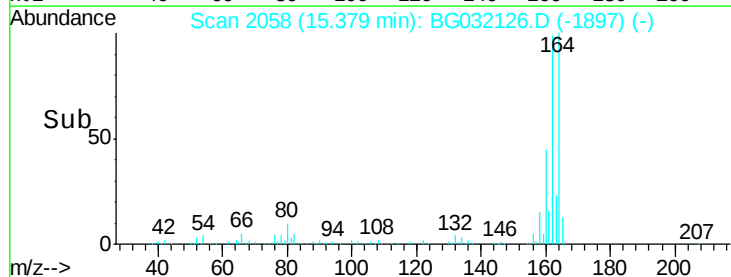
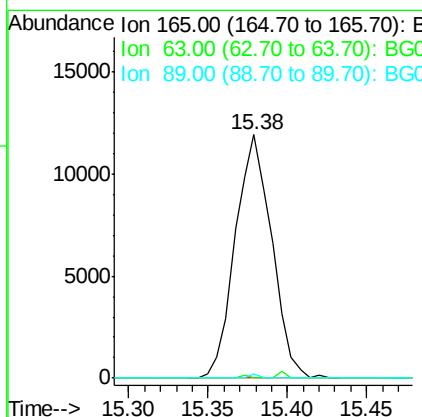
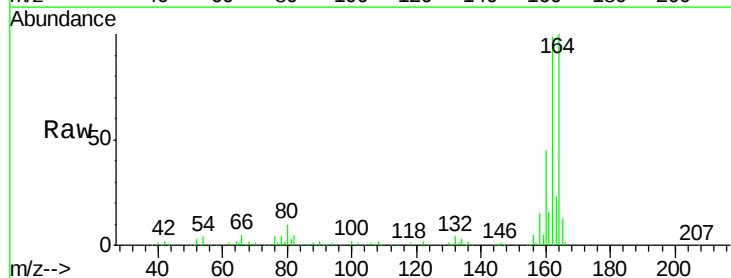
Instrument :  
BNA\_G  
ClientSampleId :

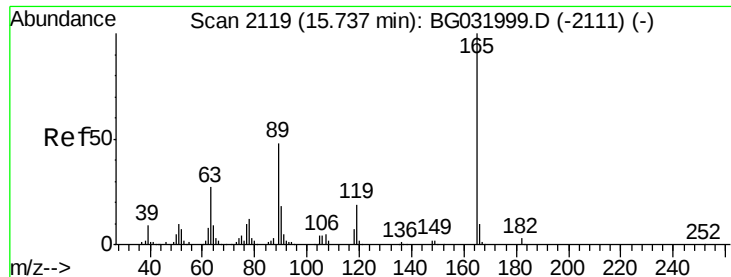
Tot Ion:172 Resp: 1058604  
Ion Ratio Lower Upper  
172 100  
171 37.9 30.0 45.0  
170 23.6 19.5 29.3



#50  
2,6-Dinitrotoluene  
Concen: 7.272 ng  
RT: 15.38 min Scan# 2058  
Delta R.T. 0.42 min  
Lab File: BG032126.D  
Acq: 18 Jan 2018 7:08

Tgt Ion:165 Resp: 18963  
Ion Ratio Lower Upper  
165 100  
63 0.0 52.7 79.1#  
89 1.5 49.2 73.8#

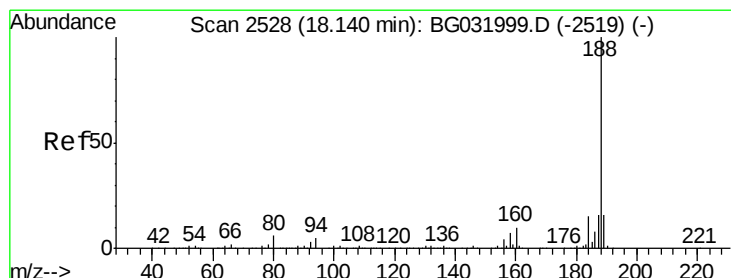
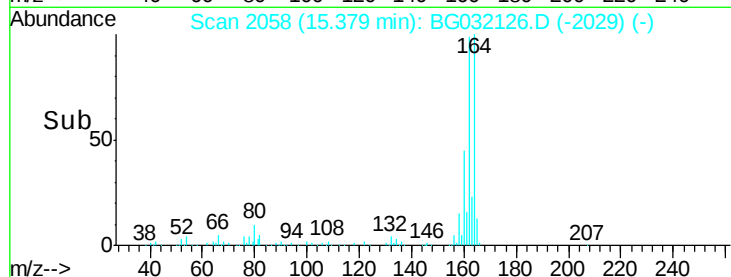
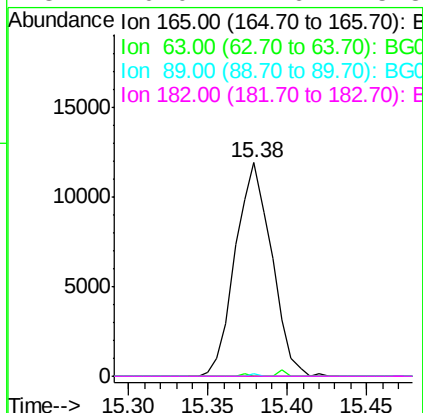
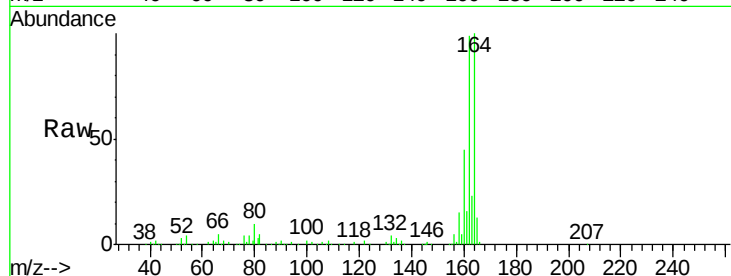




#56  
2,4-Dinitrotoluene  
Concen: 5.402 ng  
RT: 15.38 min Scan# 2058  
Delta R.T. -0.36 min  
Lab File: BG032126.D  
Acq: 18 Jan 2018 7:08

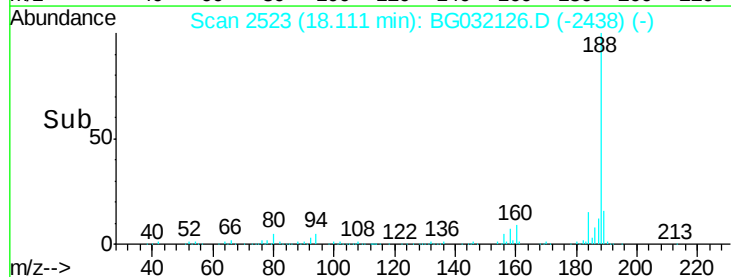
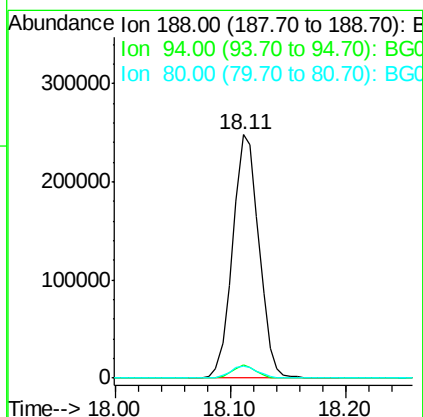
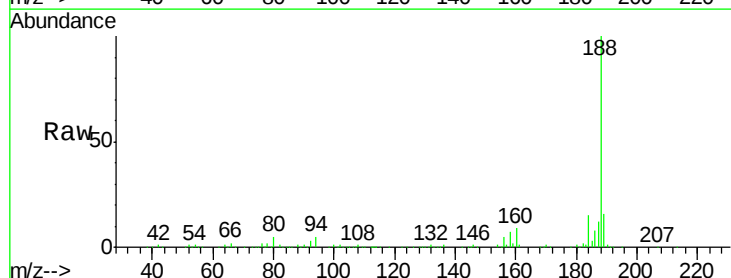
Instrument :  
BNA\_G  
ClientSampleId :

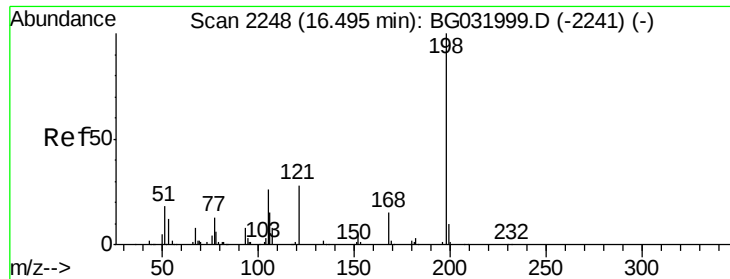
Tot Ion:165 Resp: 18963  
Ion Ratio Lower Upper  
165 100  
63 0.0 42.0 63.0#  
89 1.5 66.9 100.3#  
182 0.0 2.6 3.8#



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 18.11 min Scan# 2523  
Delta R.T. -0.03 min  
Lab File: BG032126.D  
Acq: 18 Jan 2018 7:08

Tgt Ion:188 Resp: 390237  
Ion Ratio Lower Upper  
188 100  
94 5.3 6.9 10.3#  
80 4.8 7.7 11.5#

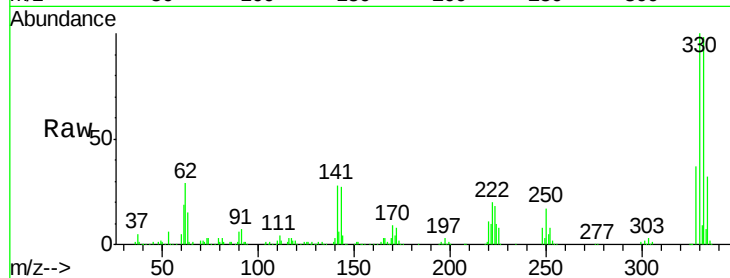




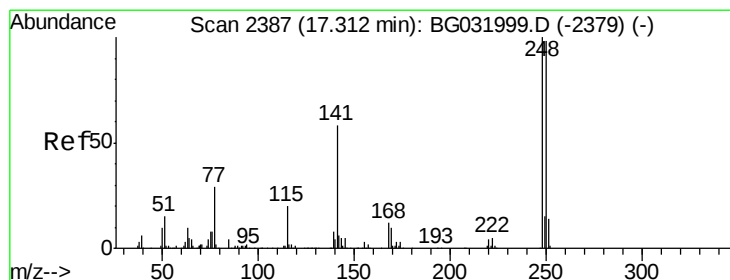
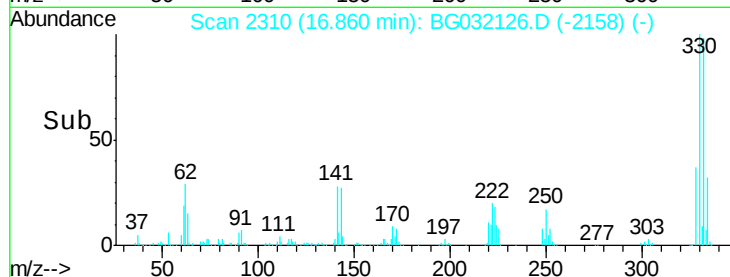
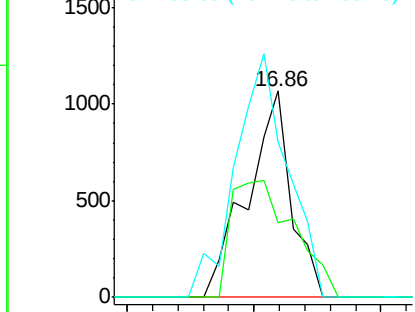
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 5.349 ng  
 RT: 16.86 min Scan# 2310  
 Delta R.T. 0.36 min  
 Lab File: BG032126.D  
 Acq: 18 Jan 2018 7:08

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:198 Resp: 1292  
 Ion Ratio Lower Upper  
 198 100  
 51 35.9 30.6 70.6  
 105 75.5 23.8 63.8#

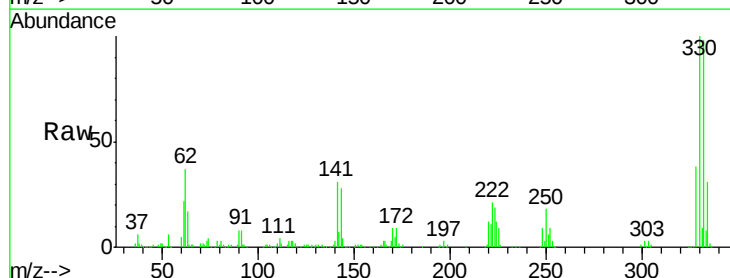


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BGC  
 Ion 105.00 (104.70 to 105.70): E

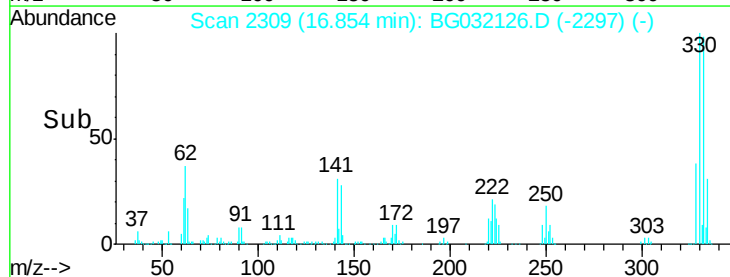
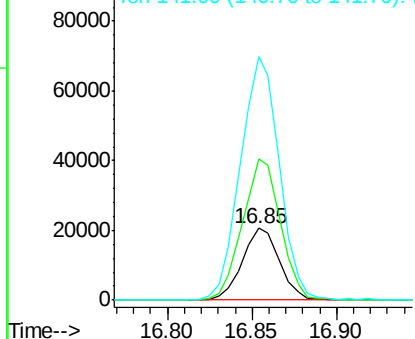


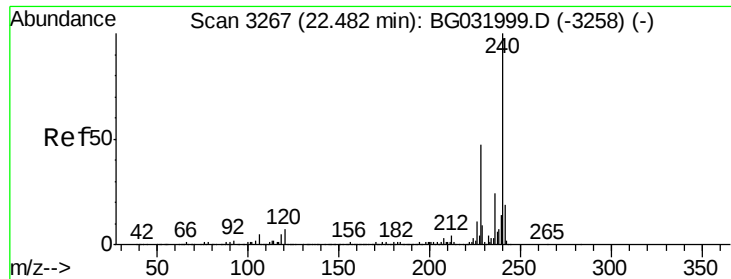
#66  
 4-Bromophenyl-phenylether  
 Concen: 5.689 ng  
 RT: 16.85 min Scan# 2309  
 Delta R.T. -0.46 min  
 Lab File: BG032126.D  
 Acq: 18 Jan 2018 7:08

Tgt Ion:248 Resp: 31585  
 Ion Ratio Lower Upper  
 248 100  
 250 196.7 77.1 115.7#  
 141 339.8 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

Chrvsene-d12

Concen: 20.000 ng

RT: 22.45 min Scan# 3261

Delta R.T. -0.04 min

Lab File: BG032126.D

Acq: 18 Jan 2018 7:08

Instrument :

BNA\_G

ClientSampleId :

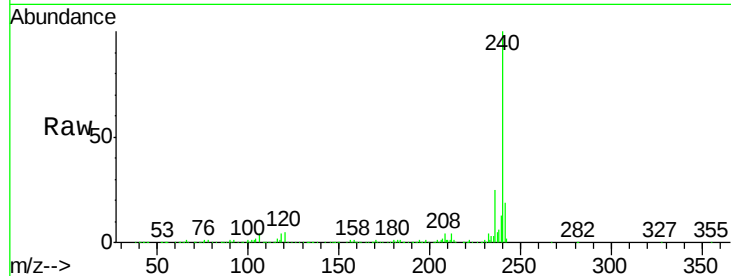
Tot Ion:240 Resp: 476869

Ion Ratio Lower Upper

240 100

120 5.3 6.8 10.2#

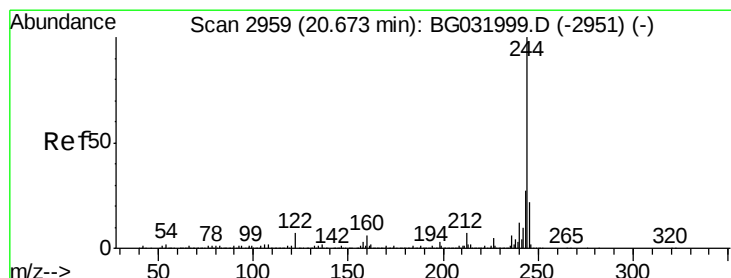
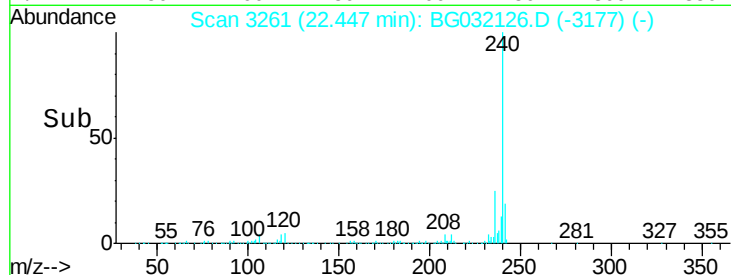
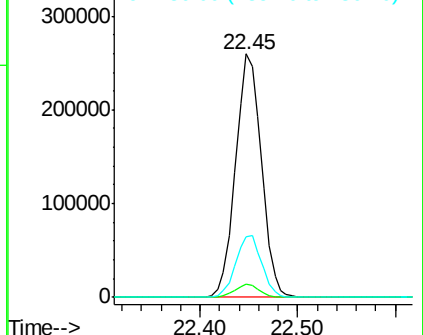
236 24.8 20.9 31.3



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



#78

Terphenyl-d14

Concen: 98.373 ng

RT: 20.66 min Scan# 2956

Delta R.T. -0.02 min

Lab File: BG032126.D

Acq: 18 Jan 2018 7:08

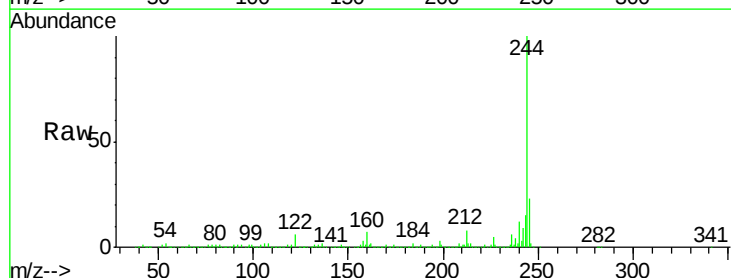
Tgt Ion:244 Resp: 2124554

Ion Ratio Lower Upper

244 100

212 8.1 5.8 8.8

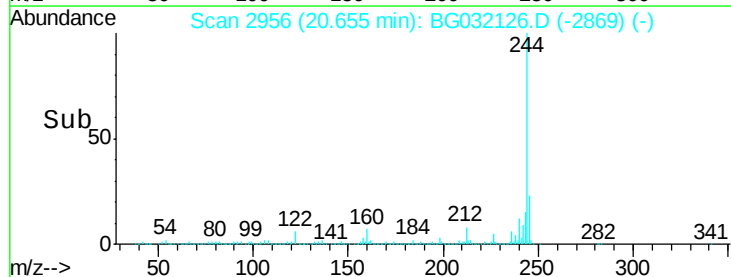
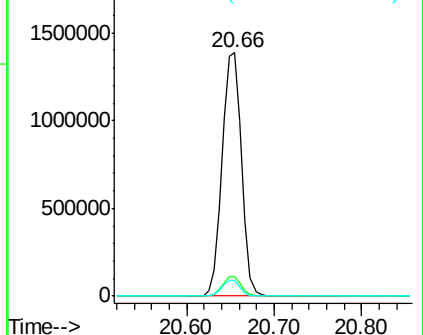
122 6.4 7.0 10.4#

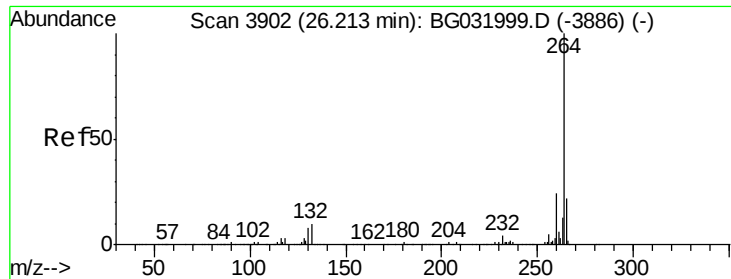


Abundance Ion 244.00 (243.70 to 244.70): E

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: 26.15 min Scan# 3892  
Delta R.T. -0.06 min  
Lab File: BG032126.D  
Acq: 18 Jan 2018 7:08

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.8  | 17.4  | 26.0  |
| 265     | 21.2  | 17.7  | 26.5  |

