

Data Path : Z:\HPCHEM1\BNA G\DATA\BG031618\  
 Data File : BG033223.D  
 Acq On : 17 Mar 2018 8:07  
 Operator : SJ/JU  
 Sample : J1931-08  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 1489-1495-98-OILY-SOIL

Quant Time: Mar 19 02:25:35 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 14 13:59:34 2018  
 Response via : Initial Calibration

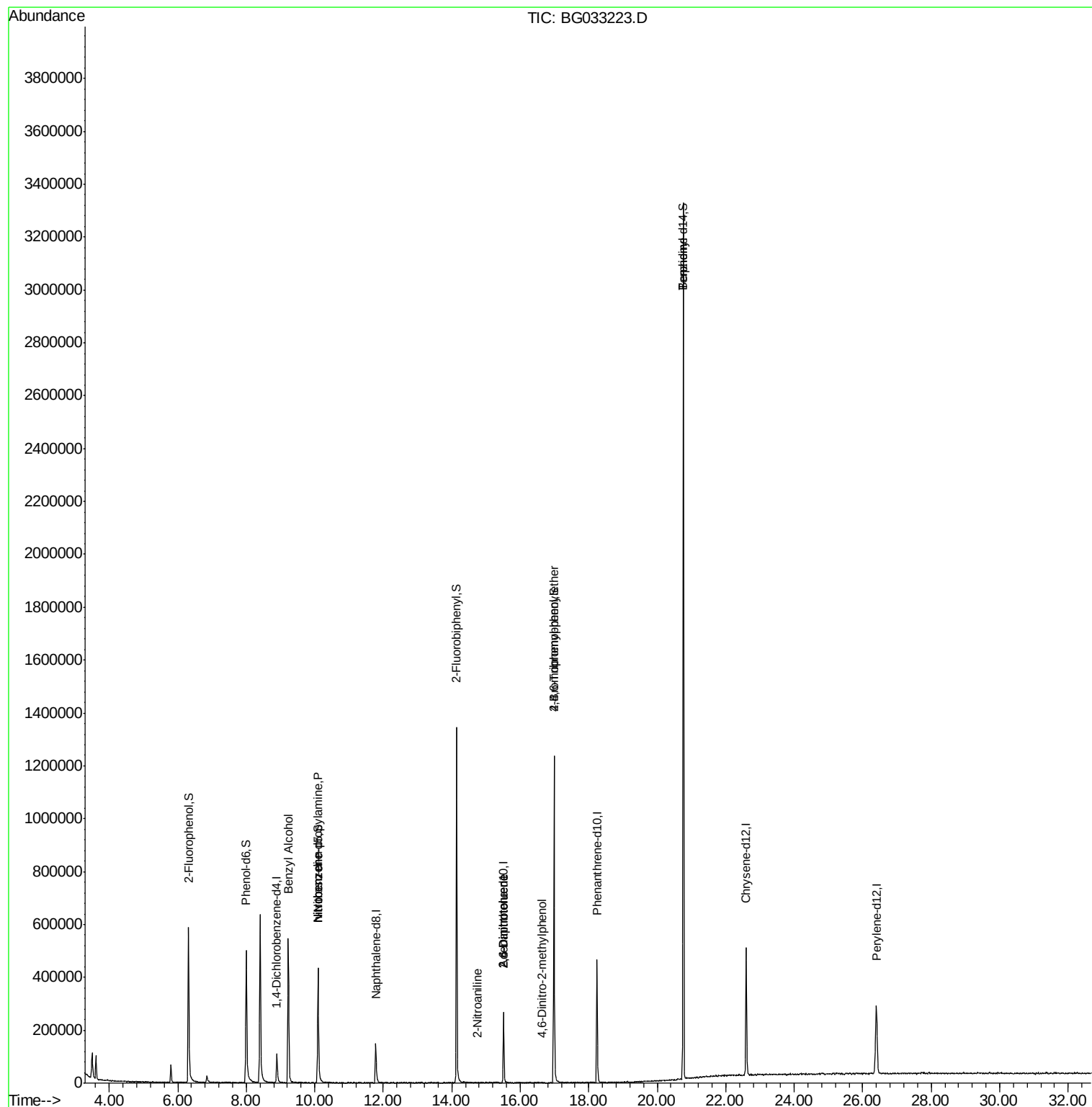
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.89  | 152  | 36769    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 11.78 | 136  | 145926   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 15.51 | 164  | 104466   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 18.24 | 188  | 310505   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 22.59 | 240  | 334857   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 26.40 | 264  | 357202   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.31  | 112  | 291736   | 126.94 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.99  | 99   | 386297   | 120.59 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 10.09 | 82   | 338814   | 152.25 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.98 | 330  | 254507   | 231.70 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 14.14 | 172  | 755967   | 104.37 | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.76 | 244  | 1617010  | 108.49 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 9.23  | 79   | 5566     | 2.363  | ng    | # 30     |
| 19) n-Nitroso-di-n-propylamine | 10.09 | 70   | 46183    | 20.421 | ng    | # 75     |
| 24) Nitrobenzene               | 10.09 | 77   | 1020     | 6.760  | ng    | # 42     |
| 47) 2-Nitroaniline             | 14.76 | 65   | 67       | 9.867  | ng    | # 9      |
| 50) 2,6-Dinitrotoluene         | 15.51 | 165  | 13710    | 16.505 | ng    | # 22     |
| 56) 2,4-Dinitrotoluene         | 15.51 | 165  | 13710    | 14.704 | ng    | # 19     |
| 64) 4,6-Dinitro-2-methylphenol | 16.63 | 198  | 58       | 5.027  | ng    | # 29     |
| 66) 4-Bromophenyl-phenylether  | 16.98 | 248  | 18983    | 5.782  | ng    | # 1      |
| 76) Benzidine                  | 20.76 | 184  | 27278    | 2.390  | ng    | 95       |

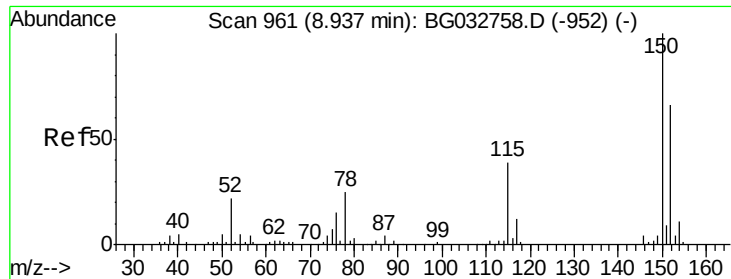
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Mar 14 13:59:34 2018  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.89 min Scan# 954

Delta R.T. -0.00 min

Lab File: BG033223.D

Acq: 17 Mar 2018 8:07

Instrument :

BNA\_G

ClientSampleId :

1489-1495-98-OILY-SOIL

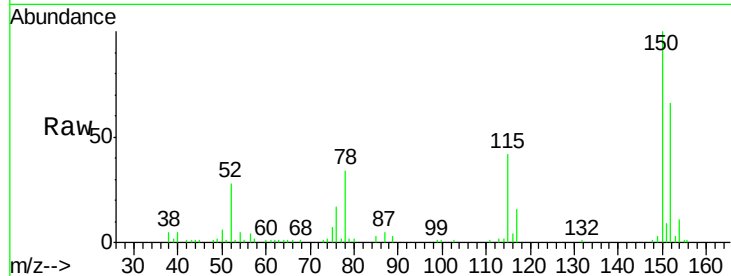
Tot Ion:152 Resp: 36769

Ion Ratio Lower Upper

152 100

150 151.9 126.6 189.8

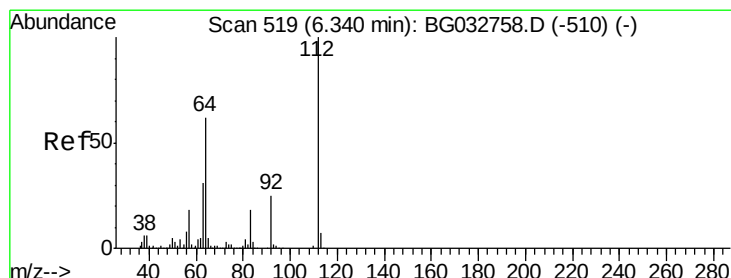
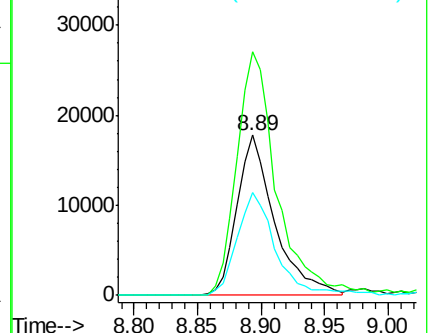
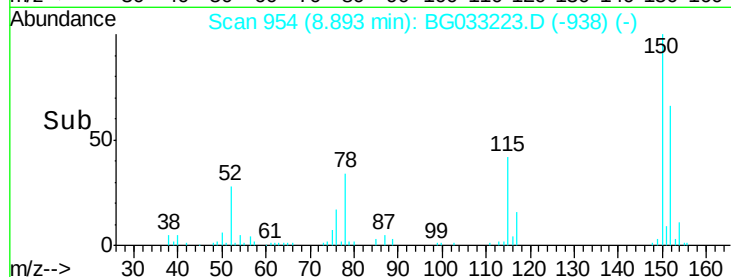
115 64.0 53.0 79.4



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: 126.937 ng

RT: 6.31 min Scan# 515

Delta R.T. -0.00 min

Lab File: BG033223.D

Acq: 17 Mar 2018 8:07

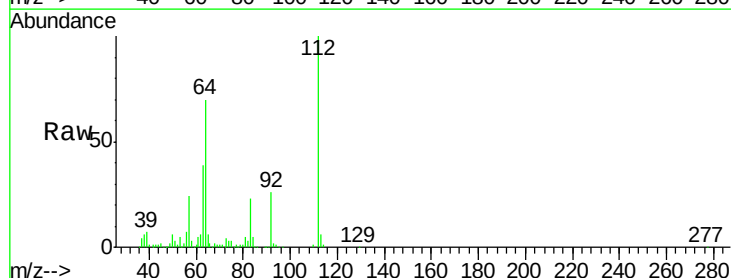
Tgt Ion:112 Resp: 291736

Ion Ratio Lower Upper

112 100

64 70.4 56.3 84.5

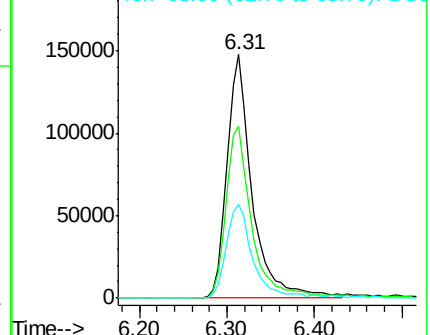
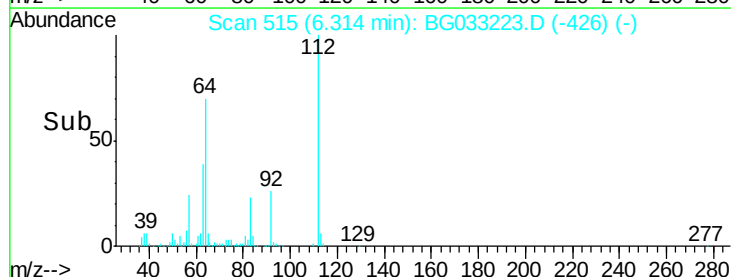
63 38.6 30.1 45.1

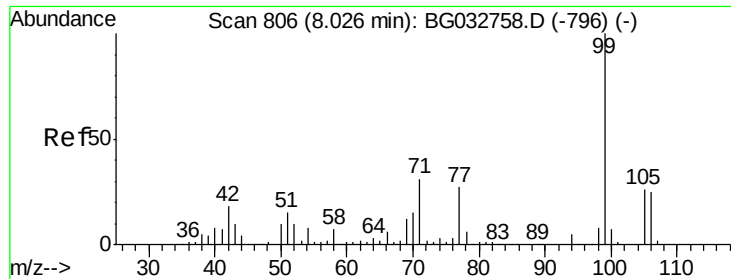


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG0

Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 120.587 ng

RT: 7.99 min Scan# 801

Delta R.T. -0.02 min

Lab File: BG033223.D

Acq: 17 Mar 2018 8:07

Instrument :

BNA\_G

ClientSampleId :

1489-1495-98-OILY-SOIL

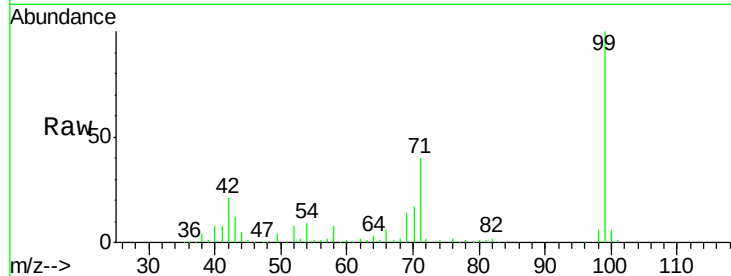
Tot Ion: 99 Resp: 386297

Ion Ratio Lower Upper

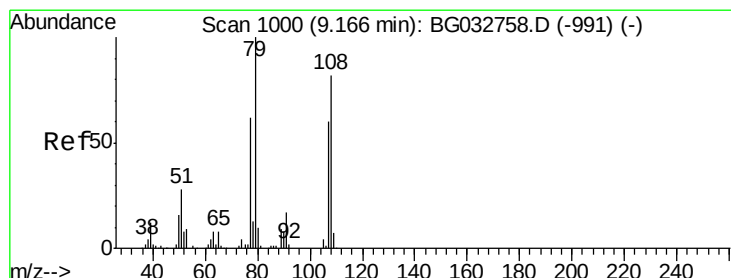
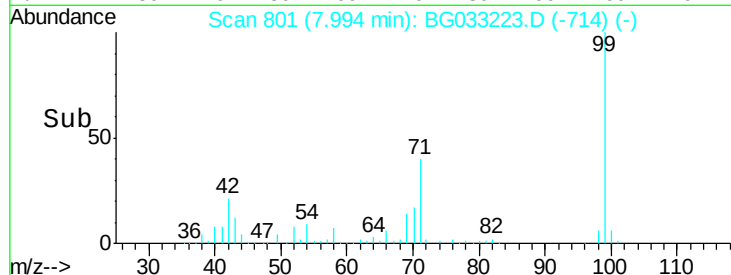
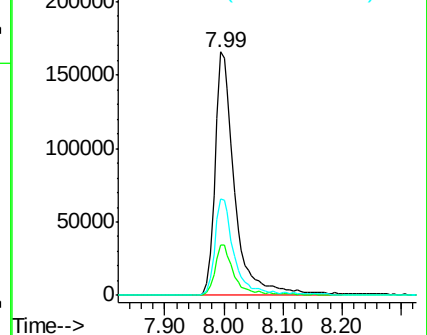
99 100

42 20.9 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



#15

Benzyl Alcohol

Concen: 2.363 ng

RT: 9.23 min Scan# 1011

Delta R.T. 0.10 min

Lab File: BG033223.D

Acq: 17 Mar 2018 8:07

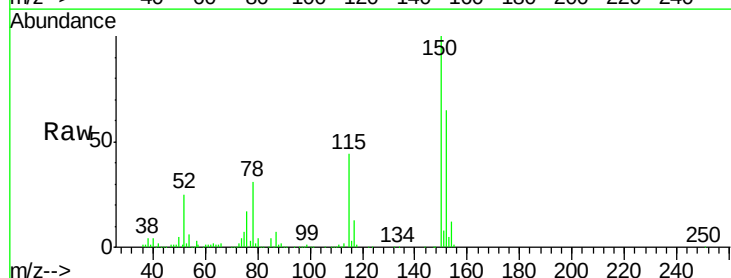
Tgt Ion: 79 Resp: 5566

Ion Ratio Lower Upper

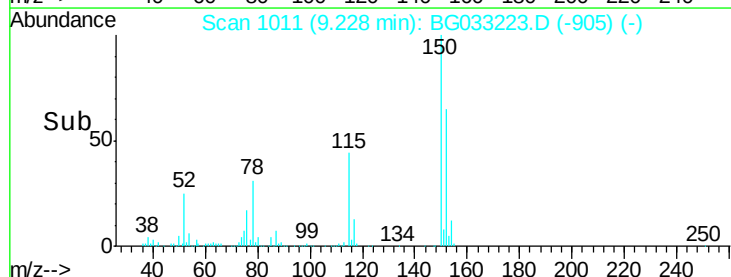
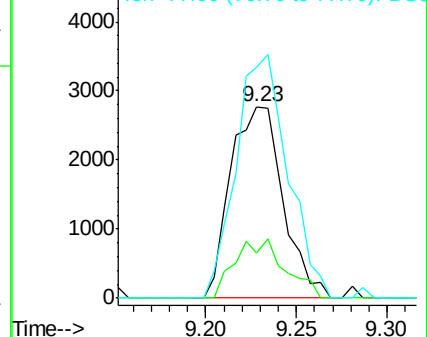
79 100

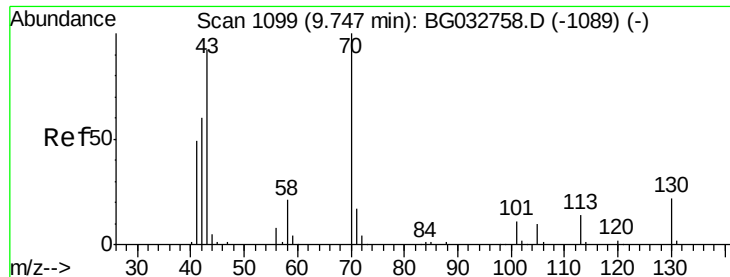
108 23.8 57.2 85.8#

77 120.5 46.1 69.1#



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

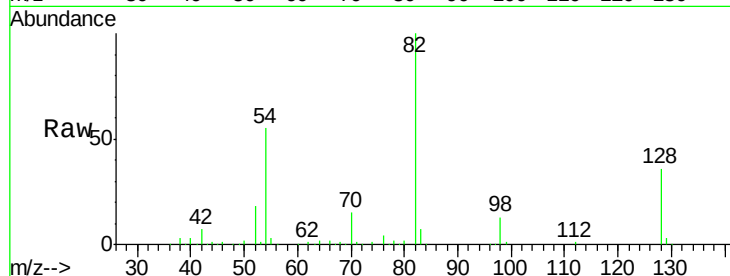




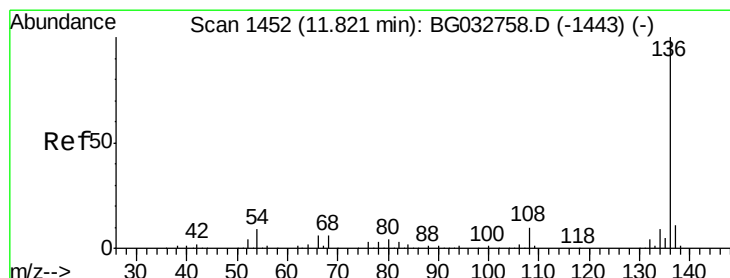
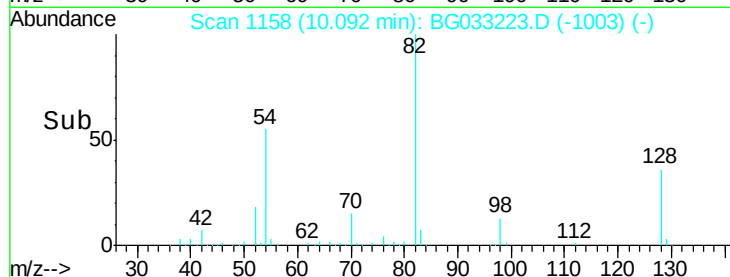
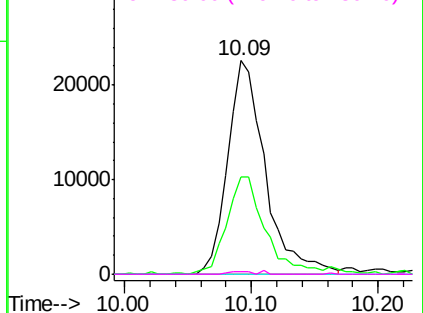
#19  
n-Nitroso-di-n-propylamine  
Concen: 20.421 ng  
RT: 10.09 min Scan# 1158  
Delta R.T. 0.38 min  
Lab File: BG033223.D  
Acq: 17 Mar 2018 8:07

Instrument :  
BNA\_G  
ClientSampleId :  
1489-1495-98-OILY-SOIL

Tot Ion: 70 Resp: 46183  
Ion Ratio Lower Upper  
70 100  
42 45.4 49.1 73.7#  
101 0.0 8.5 12.7#  
130 1.1 13.4 20.0#



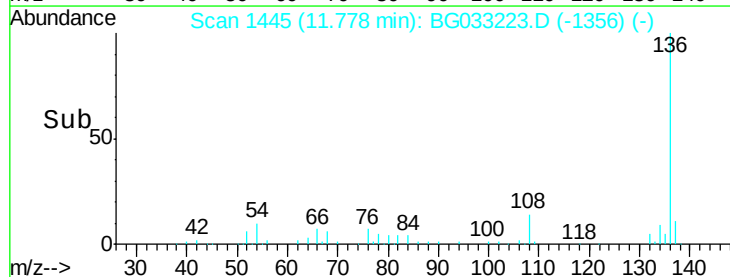
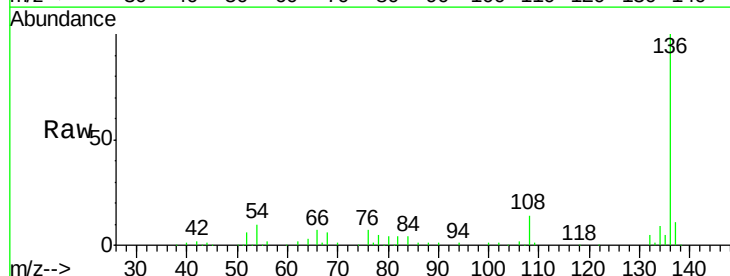
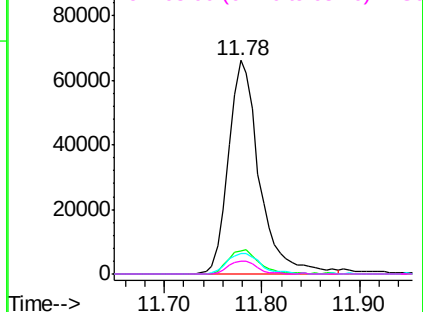
Abundance Ion 70.00 (69.70 to 70.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 101.00 (100.70 to 101.70): BGC  
Ion 130.00 (129.70 to 130.70): BGC

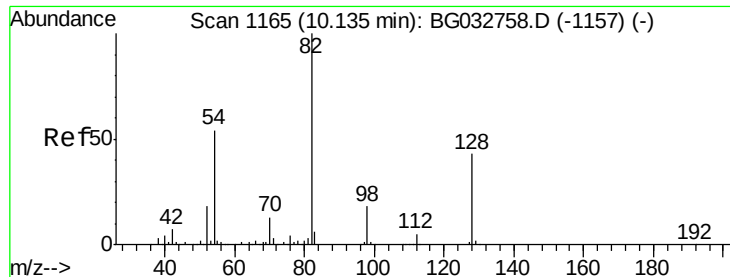


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.78 min Scan# 1445  
Delta R.T. -0.01 min  
Lab File: BG033223.D  
Acq: 17 Mar 2018 8:07

Tgt Ion: 136 Resp: 145926  
Ion Ratio Lower Upper  
136 100  
137 10.9 9.2 13.8  
54 9.8 10.3 15.5#  
68 5.7 4.5 6.7

Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

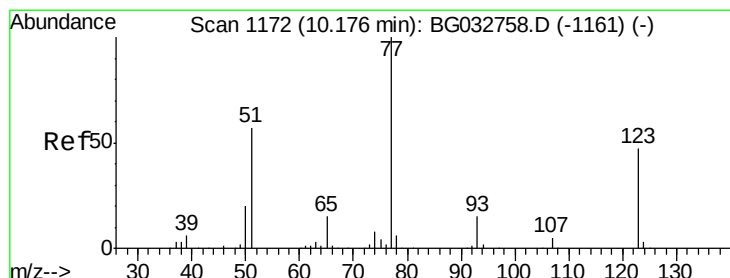
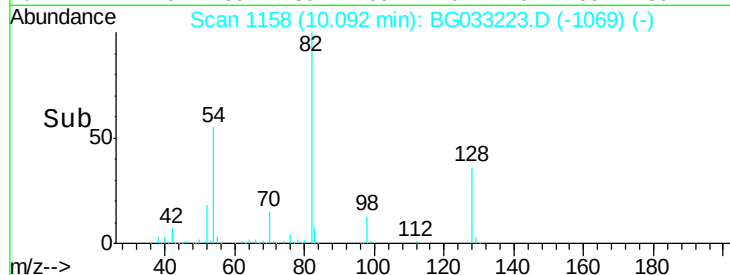
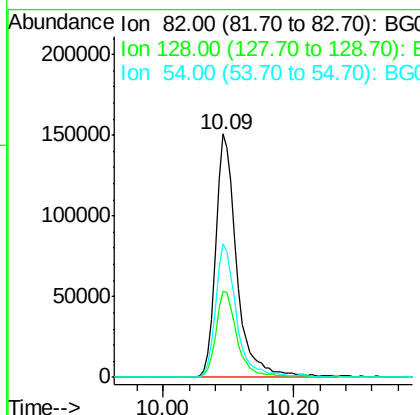
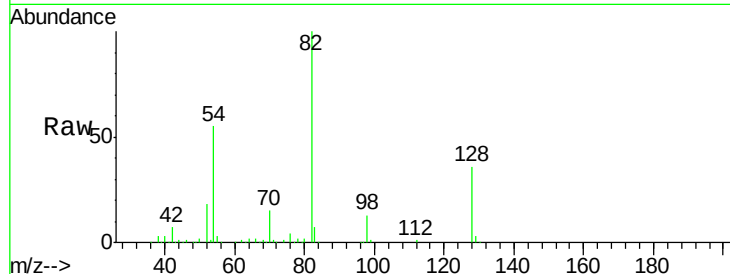




#23  
 Nitrobenzene-d5  
 Concen: 152.246 ng  
 RT: 10.09 min Scan# 1158  
 Delta R.T. -0.01 min  
 Lab File: BG033223.D  
 Acq: 17 Mar 2018 8:07

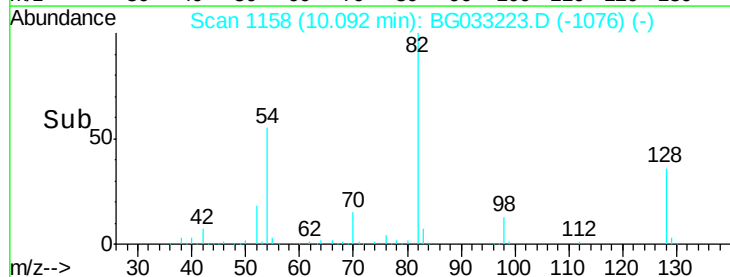
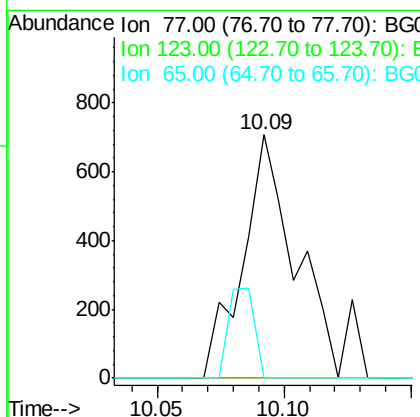
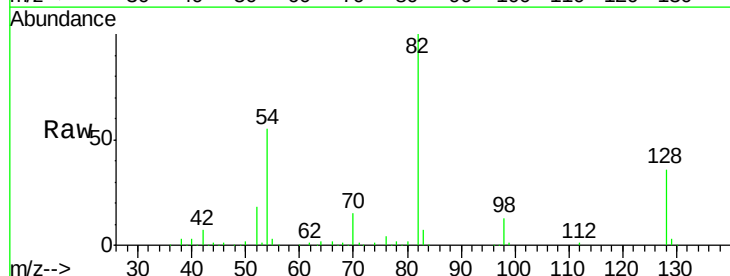
Instrument :  
 BNA\_G  
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 1489-1495-98-OILY-SOIL

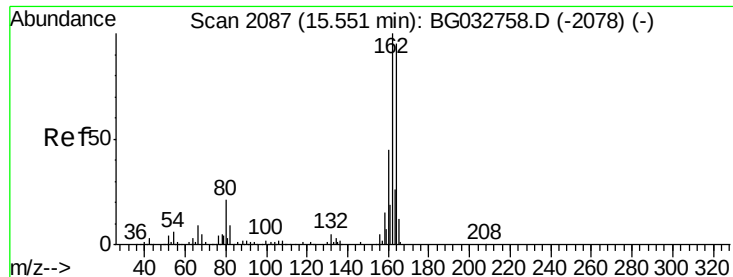
| Tot Ion   | 82    | Resp  | 338814 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 35.6  | 29.7  | 44.5   |
| 54        | 55.1  | 43.1  | 64.7   |



#24  
 Nitrobenzene  
 Concen: 6.760 ng  
 RT: 10.09 min Scan# 1158  
 Delta R.T. -0.05 min  
 Lab File: BG033223.D  
 Acq: 17 Mar 2018 8:07

| Tgt Ion   | 77    | Resp  | 1020  |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 77        | 100   |       |       |
| 123       | 0.0   | 33.0  | 49.6# |
| 65        | 0.0   | 13.0  | 19.6# |





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 15.51 min Scan# 2081

Delta R.T. -0.00 min

Lab File: BG033223.D

Acq: 17 Mar 2018 8:07

Instrument :

BNA\_G

ClientSampleId :

1489-1495-98-OILY-SOIL

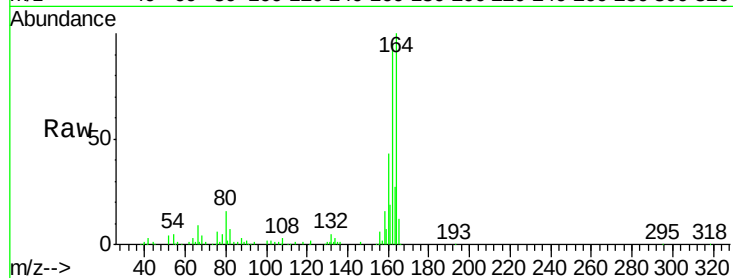
Tot Ion:164 Resp: 104466

Ion Ratio Lower Upper

164 100

162 95.4 78.8 118.2

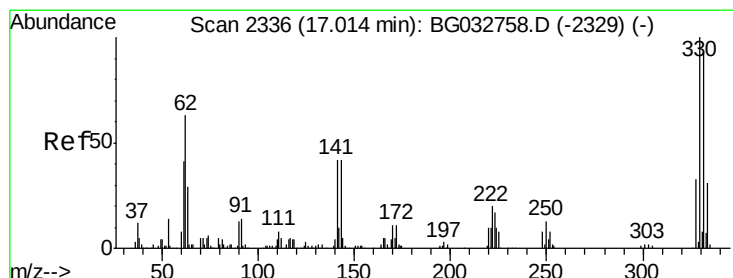
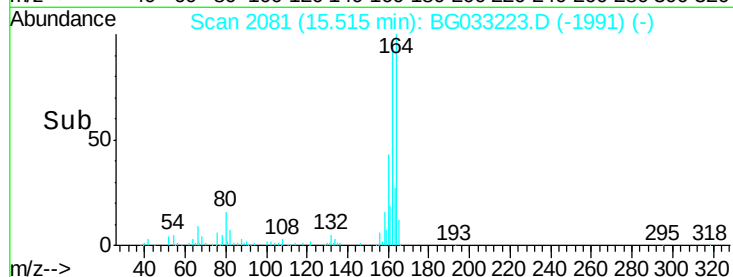
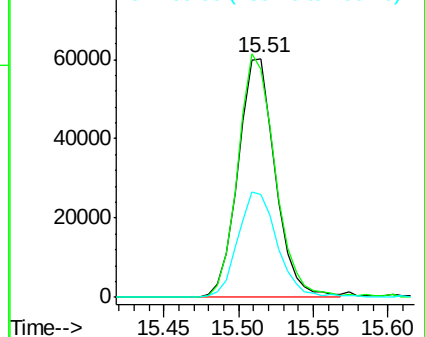
160 43.2 35.4 53.0



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: 231.702 ng

RT: 16.98 min Scan# 2331

Delta R.T. -0.01 min

Lab File: BG033223.D

Acq: 17 Mar 2018 8:07

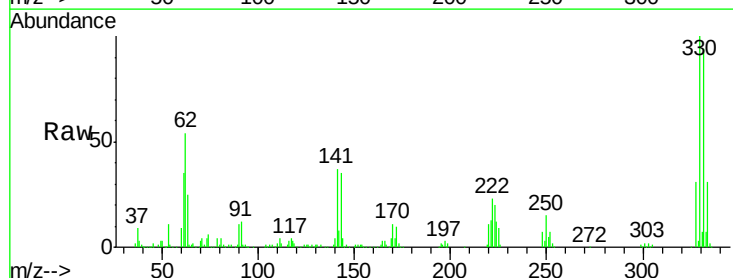
Tgt Ion:330 Resp: 254507

Ion Ratio Lower Upper

330 100

332 96.9 77.0 115.6

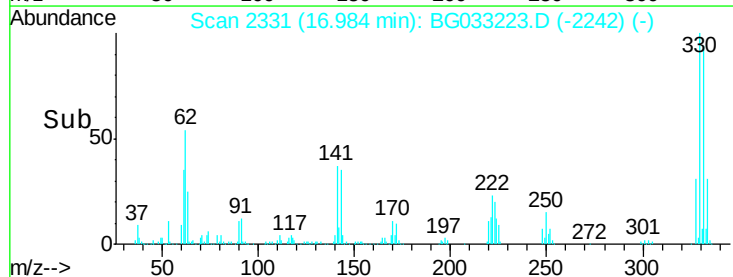
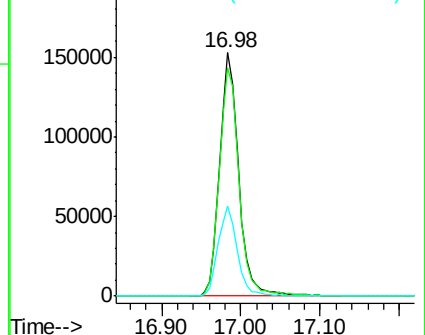
141 37.1 25.2 37.8

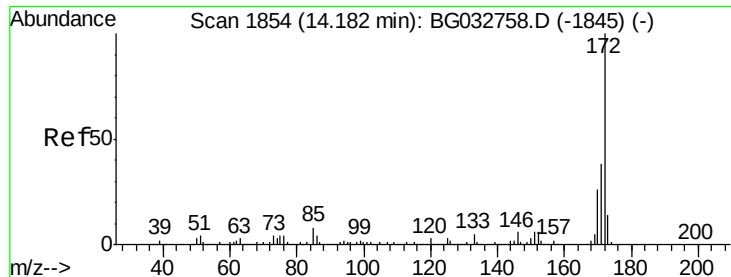


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

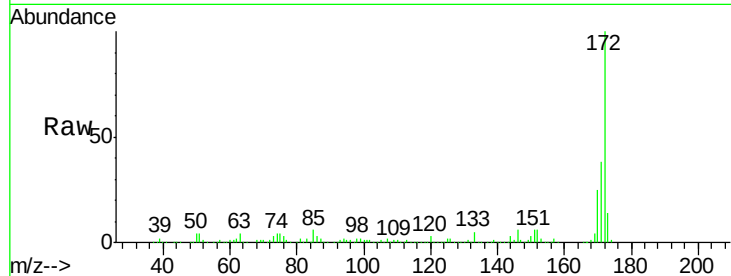




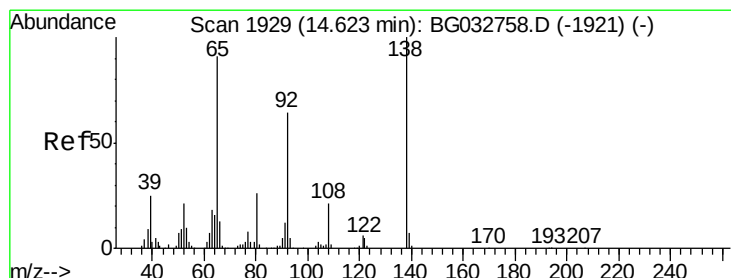
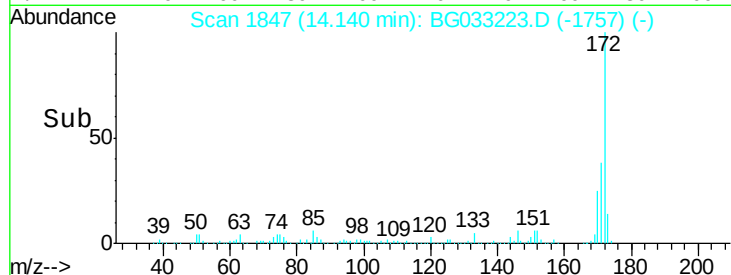
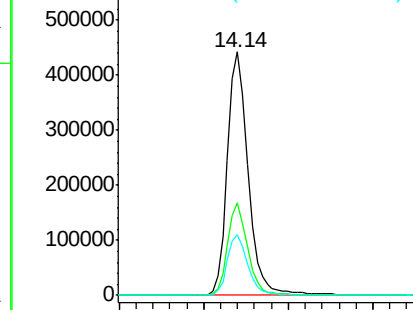
#44  
2-Fluorobiphenyl  
Concen: 104.368 ng  
RT: 14.14 min Scan# 1847  
Delta R.T. -0.00 min  
Lab File: BG033223.D  
Acq: 17 Mar 2018 8:07

Instrument :  
BNA\_G  
ClientSampleId :  
1489-1495-98-OILY-SOIL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.0  | 30.0  | 45.0  |
| 170     | 24.8  | 19.5  | 29.3  |

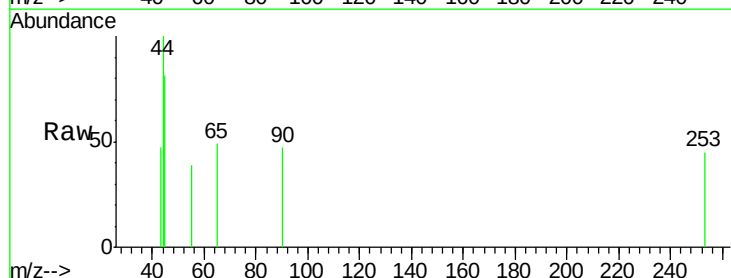


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

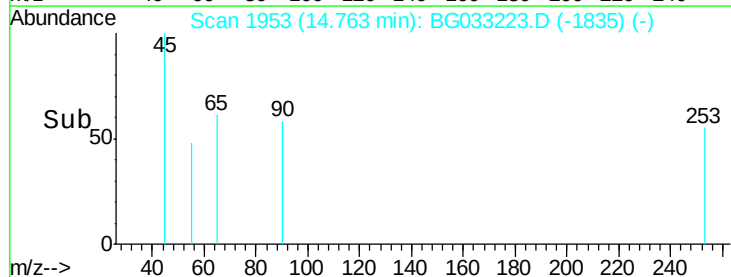
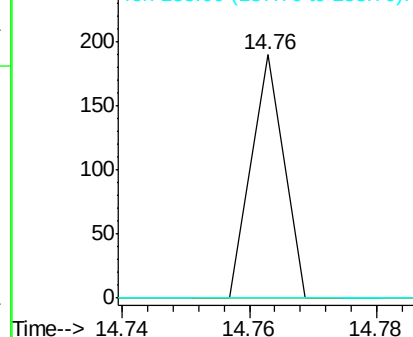


#47  
2-Nitroaniline  
Concen: 9.867 ng  
RT: 14.76 min Scan# 1953  
Delta R.T. 0.16 min  
Lab File: BG033223.D  
Acq: 17 Mar 2018 8:07

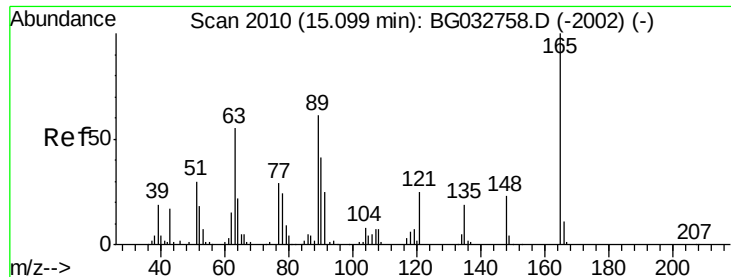
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 65      | 100   |       |        |
| 92      | 0.0   | 54.6  | 82.0#  |
| 138     | 0.0   | 72.9  | 109.3# |



Abundance Ion 65.00 (64.70 to 65.70): BGC  
Ion 92.00 (91.70 to 92.70): BGC  
Ion 138.00 (137.70 to 138.70): E



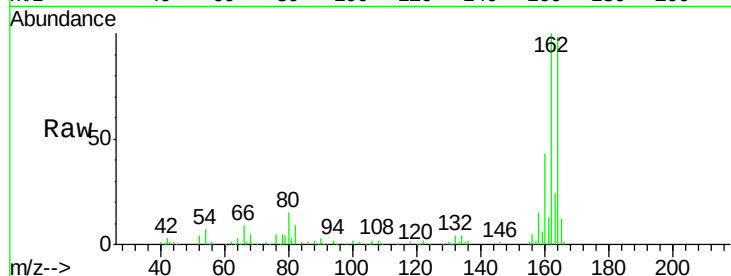




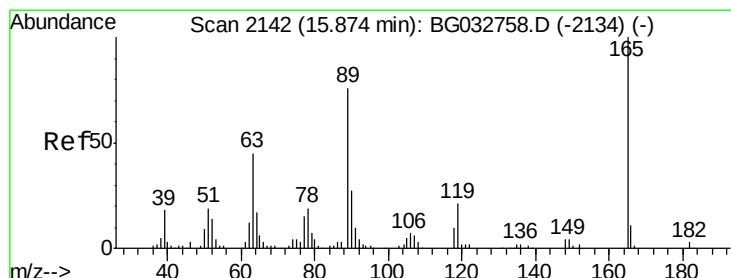
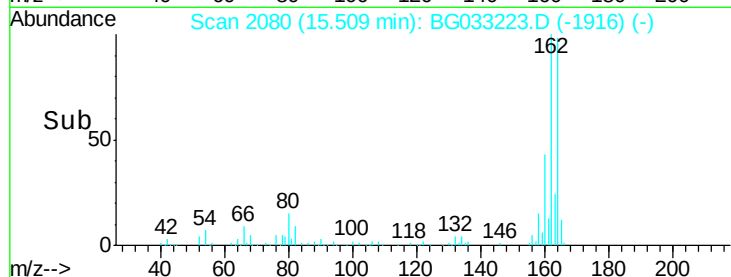
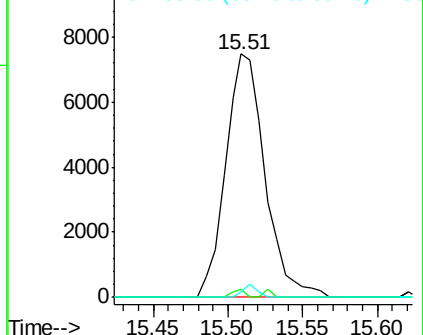
#50  
2,6-Dinitrotoluene  
Concen: 16.505 ng  
RT: 15.51 min Scan# 2080  
Delta R.T. 0.43 min  
Lab File: BG033223.D  
Acq: 17 Mar 2018 8:07

Instrument :  
BNA\_G  
ClientSampleId :  
1489-1495-98-OILY-SOIL

Tot Ion:165 Resp: 13710  
Ion Ratio Lower Upper  
165 100  
63 3.2 52.7 79.1#  
89 2.1 49.2 73.8#

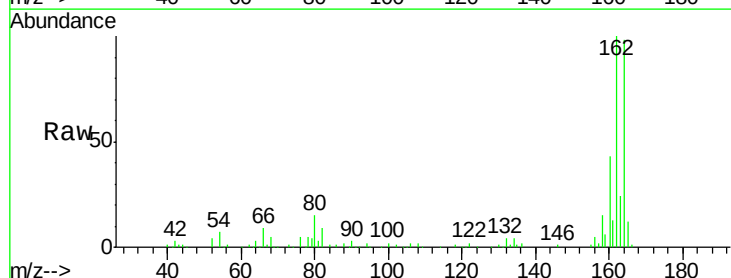


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 89.00 (88.70 to 89.70): BGC

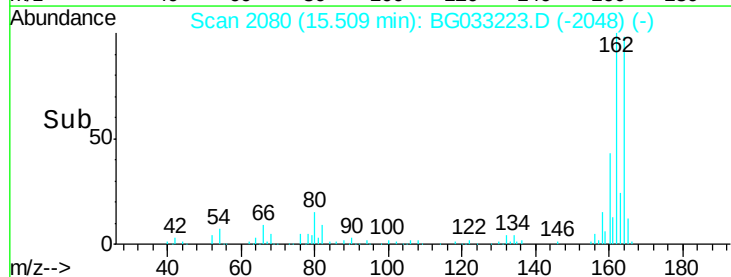
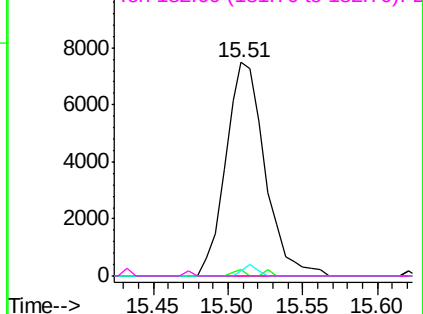


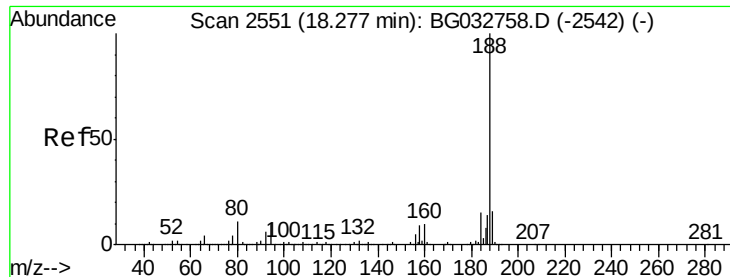
#56  
2,4-Dinitrotoluene  
Concen: 14.704 ng  
RT: 15.51 min Scan# 2080  
Delta R.T. -0.34 min  
Lab File: BG033223.D  
Acq: 17 Mar 2018 8:07

Tgt Ion:165 Resp: 13710  
Ion Ratio Lower Upper  
165 100  
63 3.2 42.0 63.0#  
89 2.1 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: 18.24 min Scan# 2545

Delta R.T. -0.01 min

Lab File: BG033223.D

Acq: 17 Mar 2018 8:07

Instrument :

BNA\_G

ClientSampleId :

1489-1495-98-OILY-SOIL

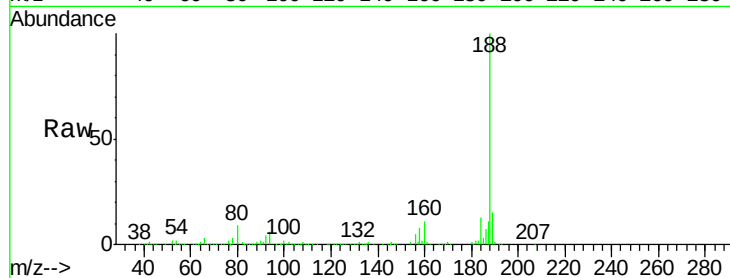
Tot Ion:188 Resp: 310505

Ion Ratio Lower Upper

188 100

94 5.9 6.9 10.3#

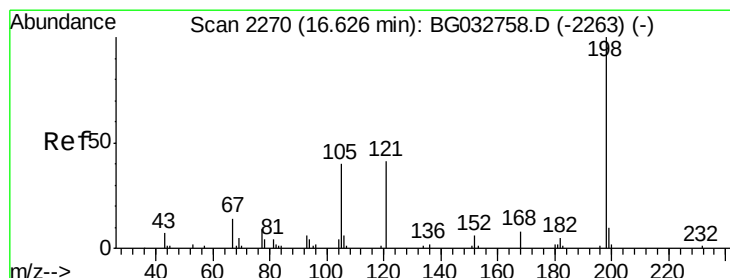
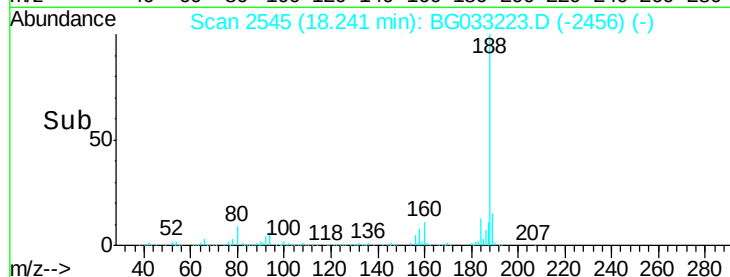
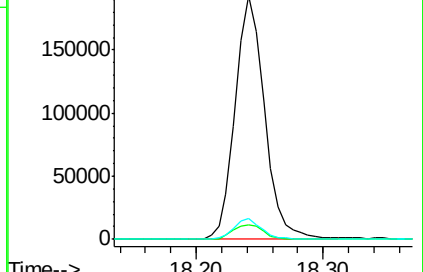
80 8.7 7.7 11.5



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: 5.027 ng

RT: 16.63 min Scan# 2271

Delta R.T. 0.02 min

Lab File: BG033223.D

Acq: 17 Mar 2018 8:07

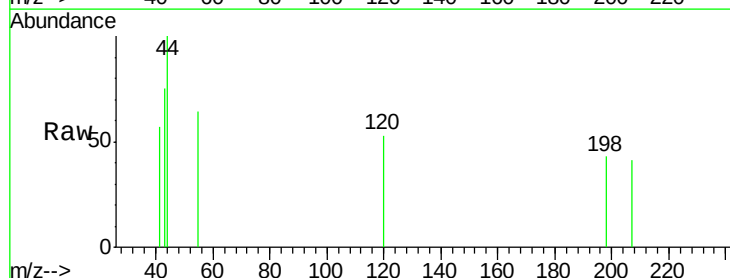
Tgt Ion:198 Resp: 58

Ion Ratio Lower Upper

198 100

51 0.0 30.6 70.6#

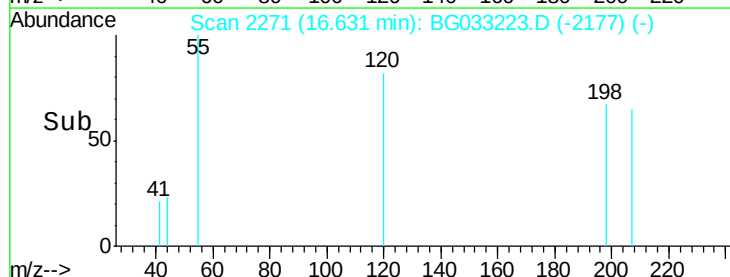
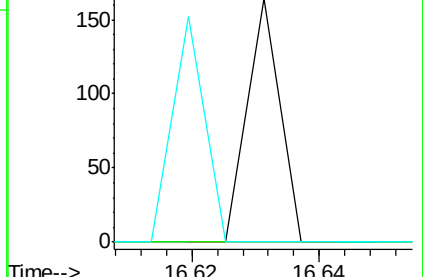
105 0.0 23.8 63.8#

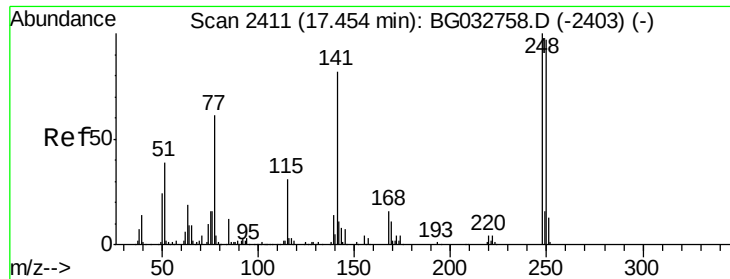


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BGC

Ion 105.00 (104.70 to 105.70): E

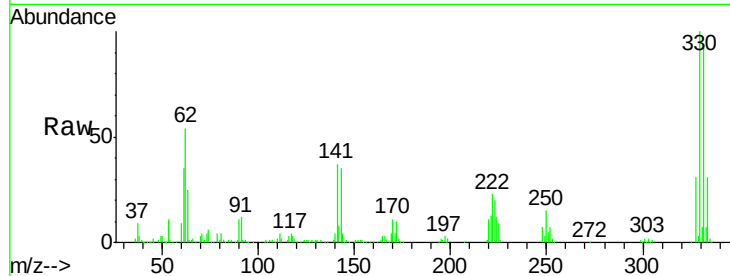




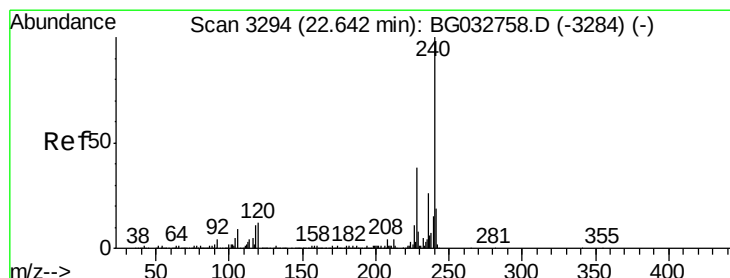
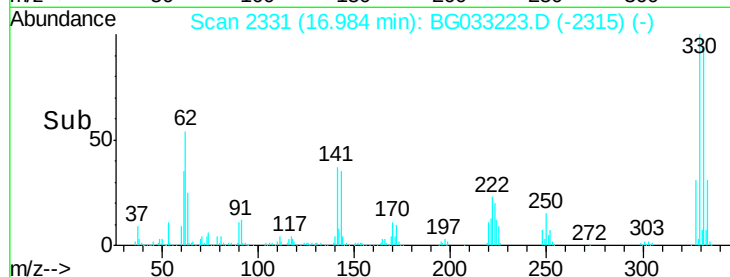
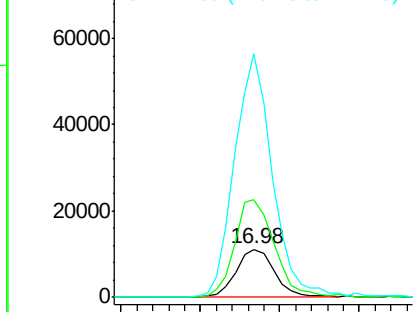
#66  
4-Bromophenyl-phenylether  
Concen: 5.782 ng  
RT: 16.98 min Scan# 2331  
Delta R.T. -0.44 min  
Lab File: BG033223.D  
Acq: 17 Mar 2018 8:07

Instrument :  
BNA\_G  
ClientSampleId :  
1489-1495-98-OILY-SOIL

Tot Ion:248 Resp: 18983  
Ion Ratio Lower Upper  
248 100  
250 203.5 77.1 115.7#  
141 506.8 50.8 76.2#

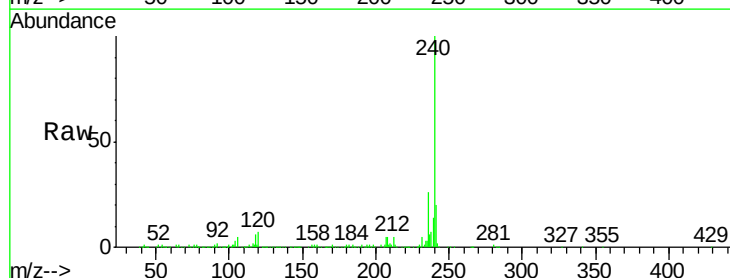


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

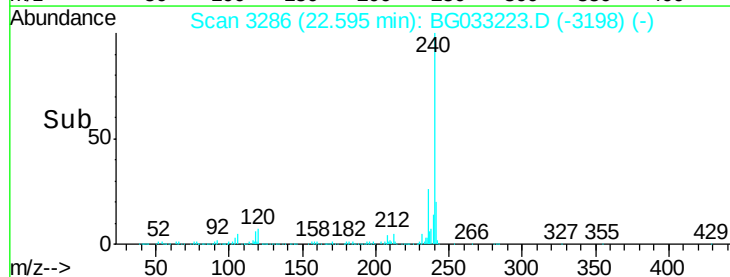
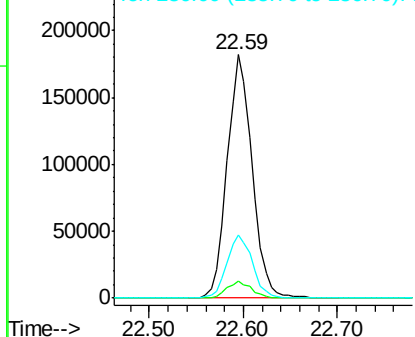


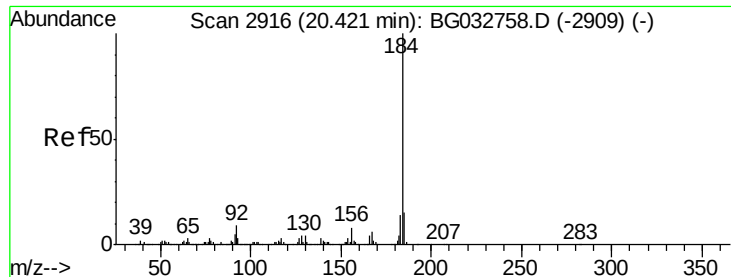
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 22.59 min Scan# 3286  
Delta R.T. -0.01 min  
Lab File: BG033223.D  
Acq: 17 Mar 2018 8:07

Tgt Ion:240 Resp: 334857  
Ion Ratio Lower Upper  
240 100  
120 6.8 6.8 10.2  
236 25.9 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

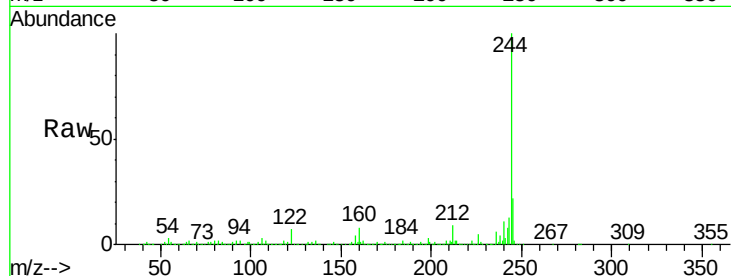




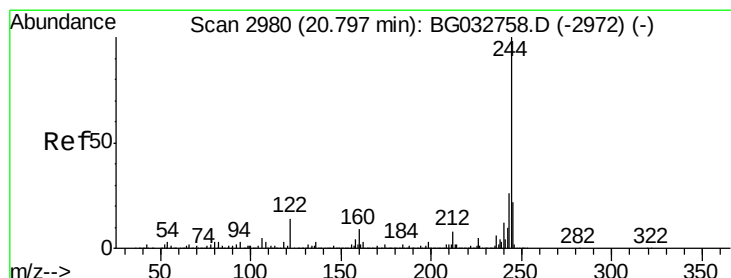
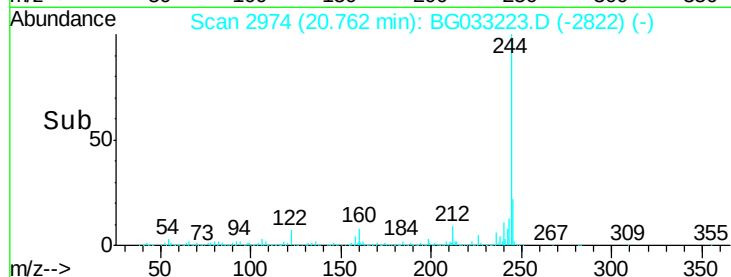
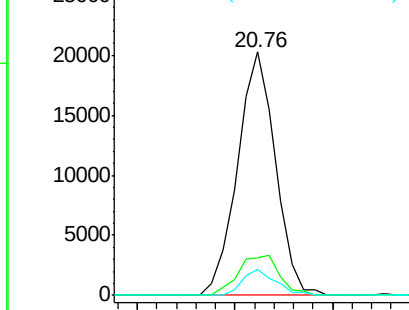
#76  
Benzidine  
Concen: 2.390 ng  
RT: 20.76 min Scan# 2974  
Delta R.T. 0.36 min  
Lab File: BG033223.D  
Acq: 17 Mar 2018 8:07

Instrument :  
BNA\_G  
ClientSampleId :  
1489-1495-98-OILY-SOIL

Tot Ion:184 Resp: 27278  
Ion Ratio Lower Upper  
184 100  
185 15.6 11.1 16.7  
183 10.8 10.6 16.0

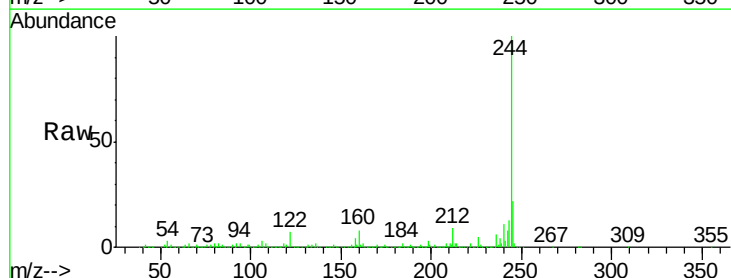


Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 185.00 (184.70 to 185.70): E  
Ion 183.00 (182.70 to 183.70): E

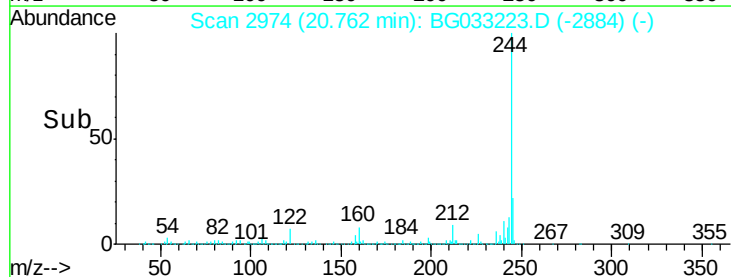
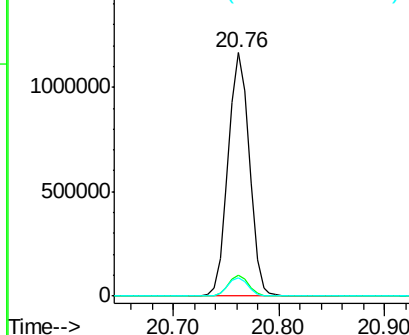


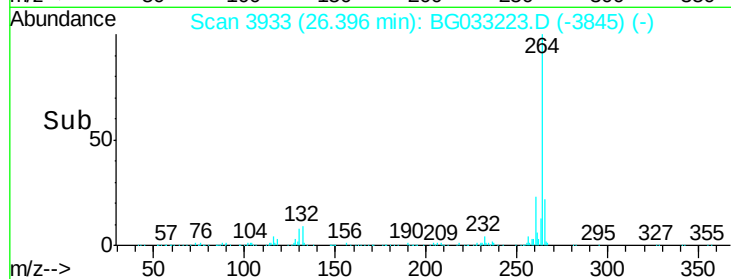
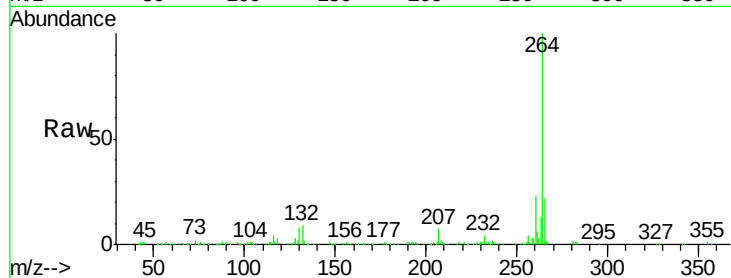
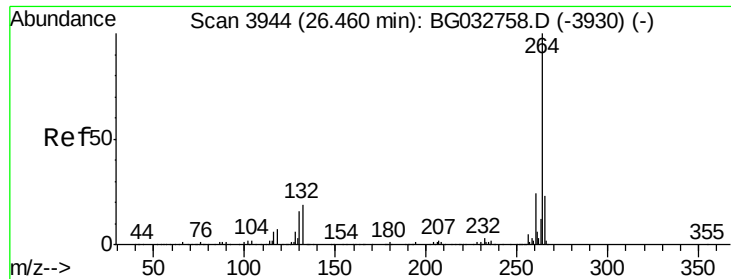
#78  
Terphenyl-d14  
Concen: 108.494 ng  
RT: 20.76 min Scan# 2974  
Delta R.T. -0.00 min  
Lab File: BG033223.D  
Acq: 17 Mar 2018 8:07

Tgt Ion:244 Resp: 1617010  
Ion Ratio Lower Upper  
244 100  
212 8.7 5.8 8.8  
122 7.3 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: 26.40 min Scan# 3933  
Delta R.T. -0.01 min  
Lab File: BG033223.D  
Acq: 17 Mar 2018 8:07

Instrument :  
BNA\_G  
ClientSampleId :  
1489-1495-98-OILY-SOIL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 17.4  | 26.0  |
| 265     | 21.5  | 17.7  | 26.5  |

