

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG071020\  
 Data File : BG046013.D  
 Acq On : 10 Jul 2020 19:11  
 Operator : CG/JU  
 Sample : L3203-03  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 RO-24

Quant Time: Jul 11 00:57:02 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG070620.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 07 09:58:42 2020  
 Response via : Initial Calibration

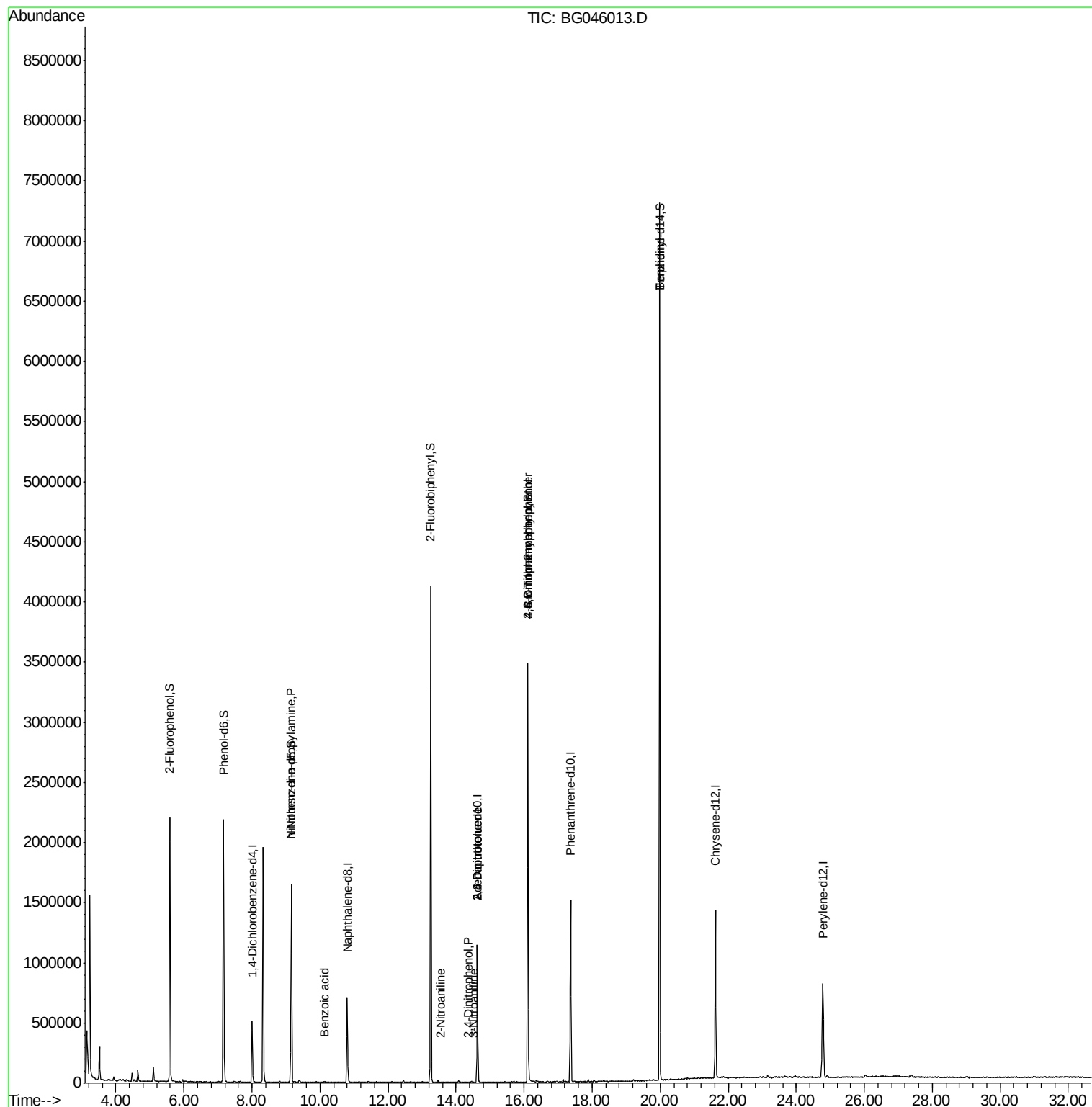
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.01  | 152  | 137900   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.80 | 136  | 590897   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.63 | 164  | 388694   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.37 | 188  | 870214   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.63 | 240  | 764409   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 24.78 | 264  | 755262   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.58  | 112  | 983856   | 115.70 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.17  | 99   | 1299815  | 106.17 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.16  | 82   | 1065189  | 103.76 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.11 | 330  | 525556   | 145.68 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.26 | 172  | 1985749  | 79.69  | ng    | 0.00     |
| 79) Terphenyl-d14              | 19.99 | 244  | 2834231  | 82.52  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.16  | 70   | 145158   | 16.878 | ng    | # 79     |
| 32) Benzoic acid               | 10.11 | 122  | 176      | 6.535  | ng    | # 89     |
| 48) 2-Nitroaniline             | 13.54 | 65   | 159      | 3.393  | ng    | # 7      |
| 51) 2,6-Dinitrotoluene         | 14.63 | 165  | 50641    | 12.348 | ng    | # 19     |
| 53) 3-Nitroaniline             | 14.53 | 138  | 53       | 2.991  | ng    | # 1      |
| 54) 2,4-Dinitrophenol          | 14.34 | 184  | 118      | 6.166  | ng    | # 17     |
| 57) 2,4-Dinitrotoluene         | 14.63 | 165  | 50641    | 10.904 | ng    | # 20     |
| 65) 4,6-Dinitro-2-methylphenol | 16.11 | 198  | 2329     | 7.458  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether  | 16.11 | 248  | 38457    | 3.957  | ng    | # 1      |
| 77) Benzidine                  | 19.99 | 184  | 61366    | 2.808  | ng    | # 88     |

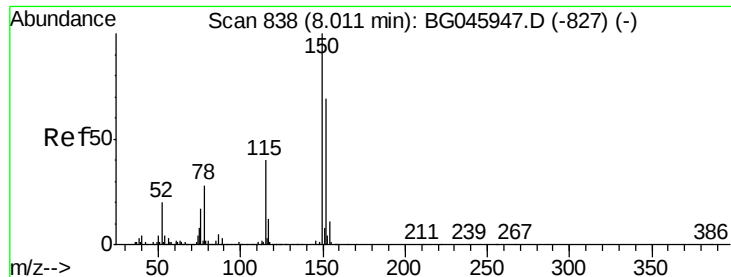
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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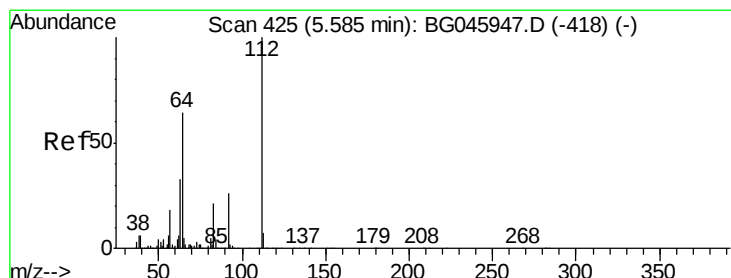
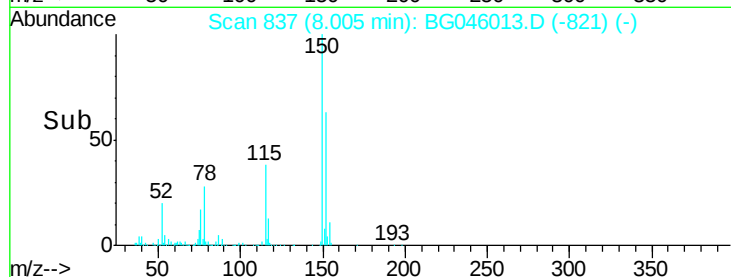
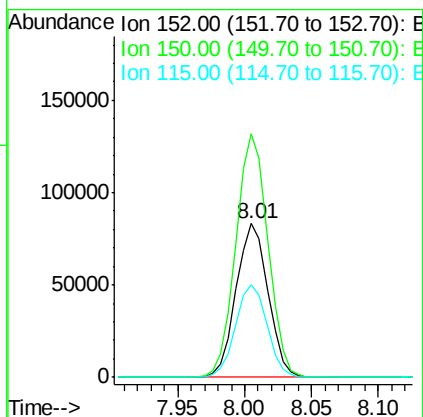
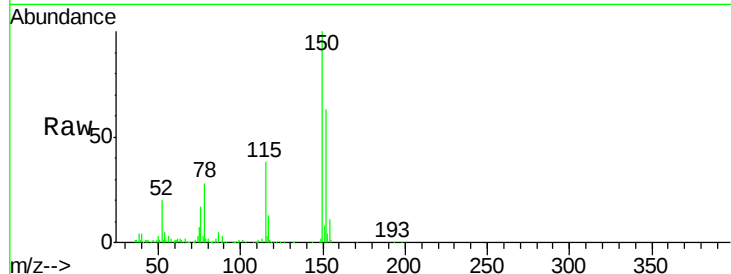


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.01 min Scan# 837  
Delta R.T. -0.01 min  
Lab File: BG046013.D  
Acq: 10 Jul 2020 19:11

Instrument :  
BNA\_G  
ClientSampleId :  
RO-24

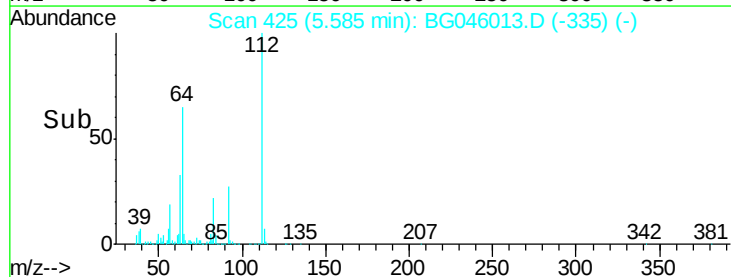
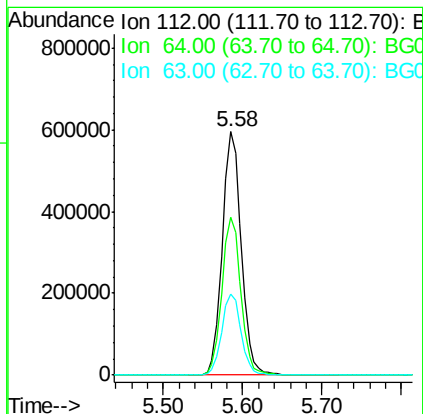
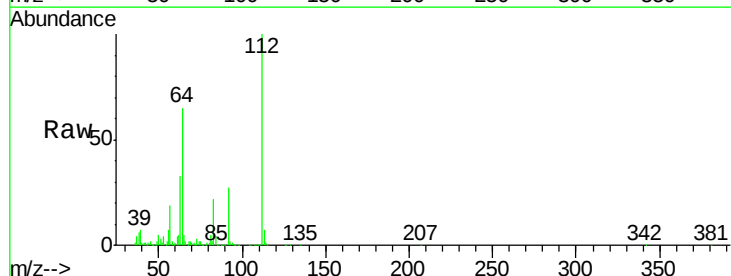
Tot Ion:152 Resp: 137900  
Ion Ratio Lower Upper  
152 100  
150 158.7 116.7 175.1  
115 60.2 47.4 71.0

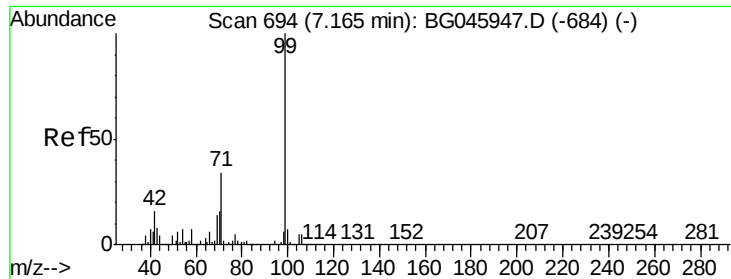


#5

2-Fluorophenol  
Concen: 115.699 ng  
RT: 5.58 min Scan# 425  
Delta R.T. 0.00 min  
Lab File: BG046013.D  
Acq: 10 Jul 2020 19:11

Tgt Ion:112 Resp: 983856  
Ion Ratio Lower Upper  
112 100  
64 64.6 51.4 77.2  
63 33.1 26.6 40.0





#7

Phenol-d6

Concen: 106.170 ng

RT: 7.17 min Scan# 694

Delta R.T. -0.00 min

Lab File: BG046013.D

Acq: 10 Jul 2020 19:11

Instrument :

BNA\_G

ClientSampled :

RO-24

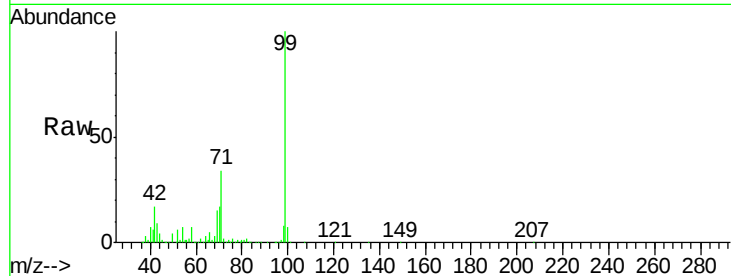
Tot Ion: 99 Resp: 1299815

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 17.4  | 13.0  | 19.4  |
| 71  | 34.1  | 27.5  | 41.3  |

99 100

42 17.4 13.0 19.4

71 34.1 27.5 41.3

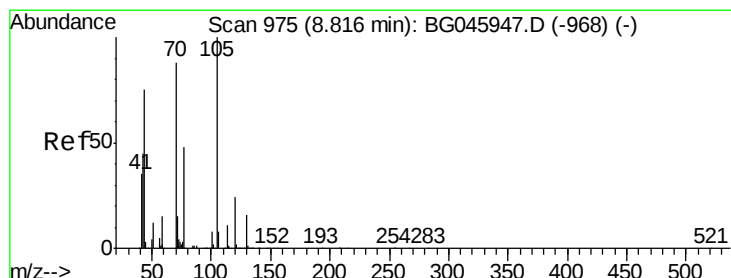
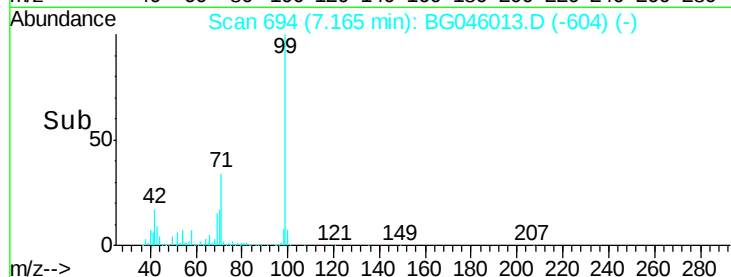
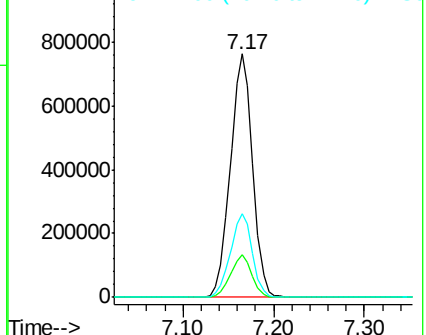


Abundance

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: 16.878 ng

RT: 9.16 min Scan# 1033

Delta R.T. 0.34 min

Lab File: BG046013.D

Acq: 10 Jul 2020 19:11

Tgt Ion: 70 Resp: 145158

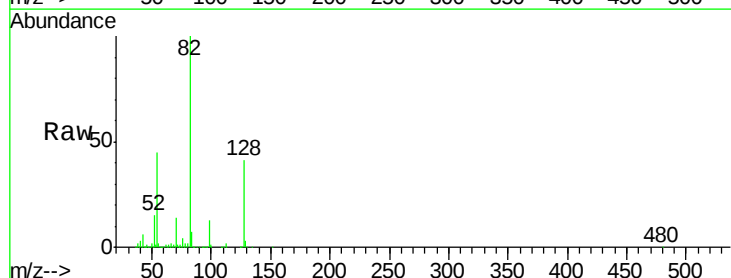
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 41.2  | 41.4  | 62.0# |
| 101 | 0.0   | 7.1   | 10.7# |
| 130 | 2.4   | 14.9  | 22.3# |

70 100

42 41.2 41.4 62.0#

101 0.0 7.1 10.7#

130 2.4 14.9 22.3#



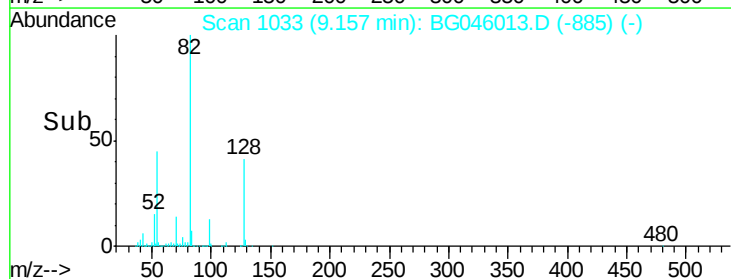
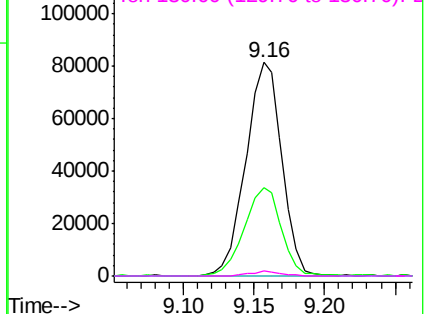
Abundance

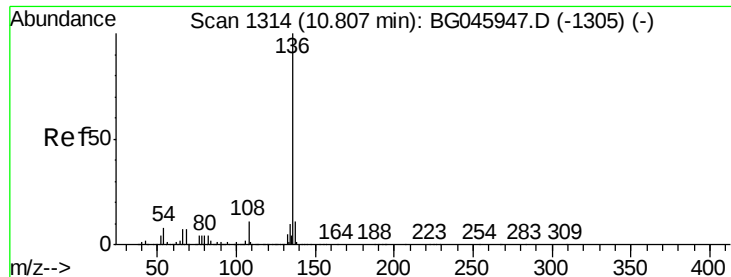
Ion 70.00 (69.70 to 70.70): BGC

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

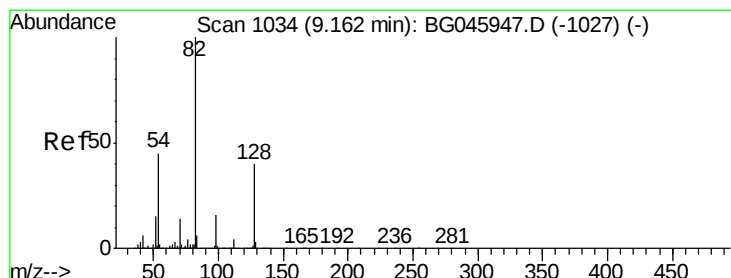
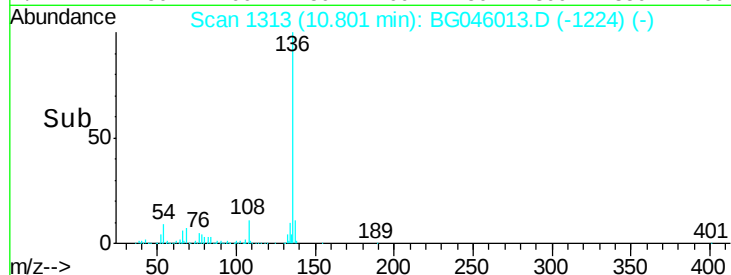
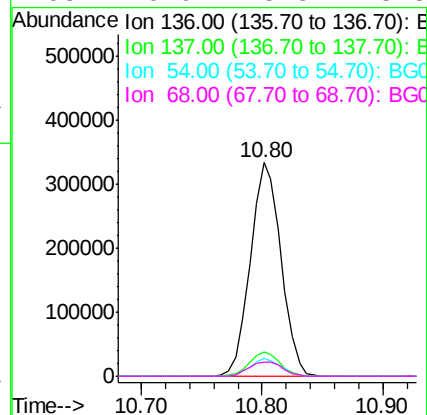
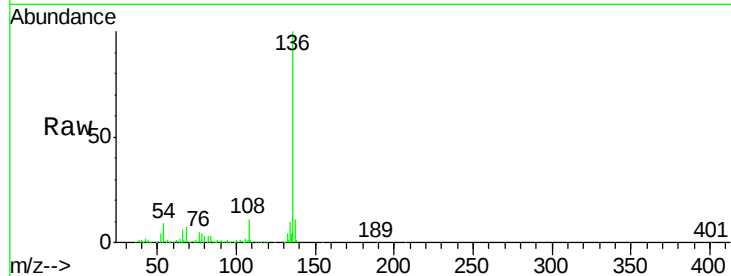




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.80 min Scan# 1313  
Delta R.T. -0.01 min  
Lab File: BG046013.D  
Acq: 10 Jul 2020 19:11

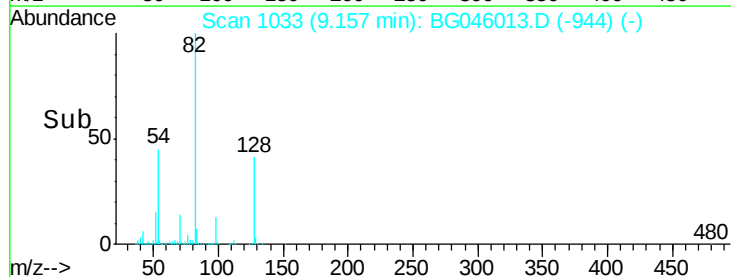
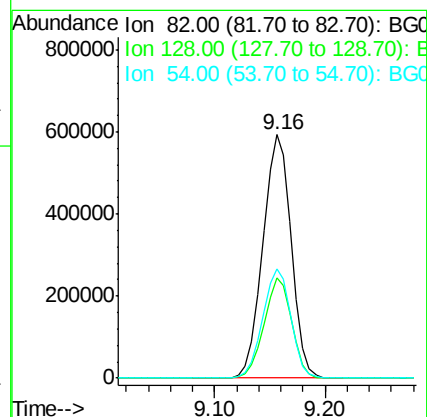
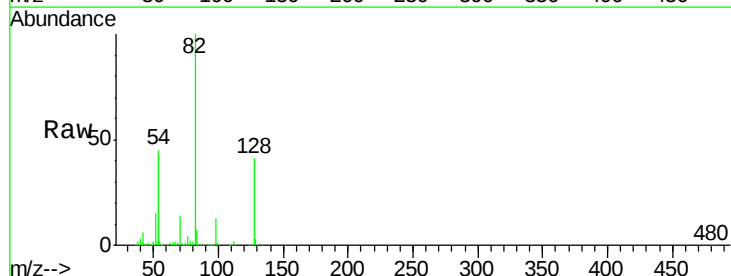
Instrument :  
BNA\_G  
ClientSampleId :  
RO-24

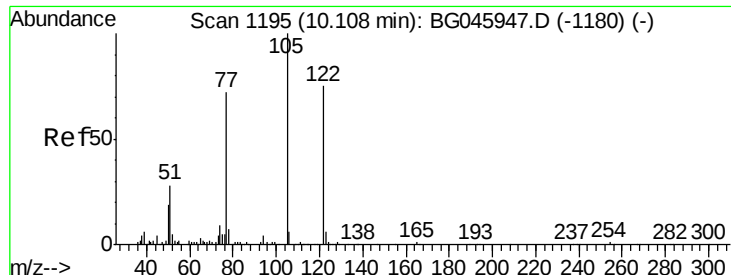
|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 590897   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.1  | 9.2 13.8 |
| 54          | 8.6   | 6.2 9.4  |
| 68          | 6.9   | 5.8 8.8  |



#23  
Nitrobenzene-d5  
Concen: 103.758 ng  
RT: 9.16 min Scan# 1033  
Delta R.T. -0.01 min  
Lab File: BG046013.D  
Acq: 10 Jul 2020 19:11

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 1065189   |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 41.0  | 32.2 48.4 |
| 54          | 44.6  | 35.8 53.6 |

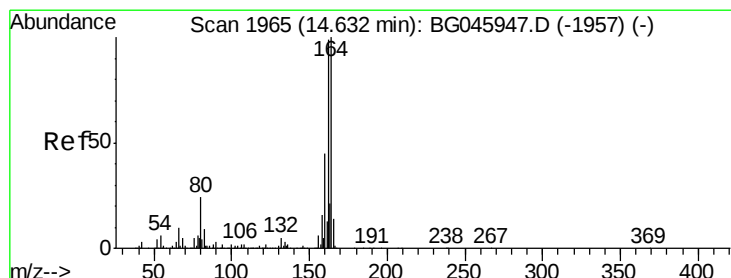
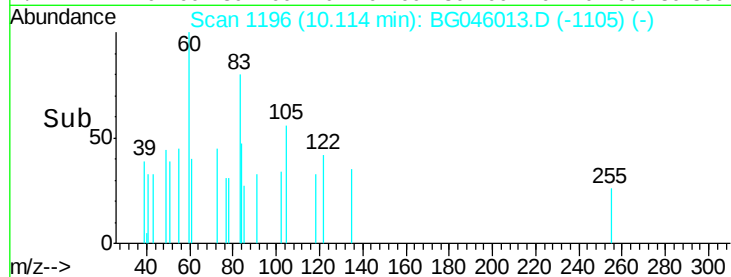
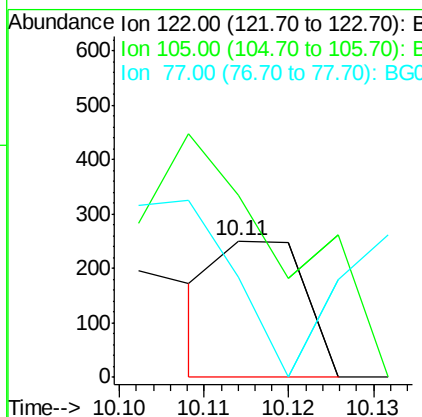
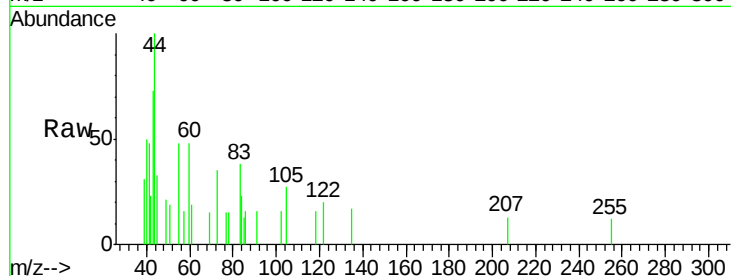




#32  
Benzoic acid  
Concen: 6.535 ng  
RT: 10.11 min Scan# 1196  
Delta R.T. 0.01 min  
Lab File: BG046013.D  
Acq: 10 Jul 2020 19:11

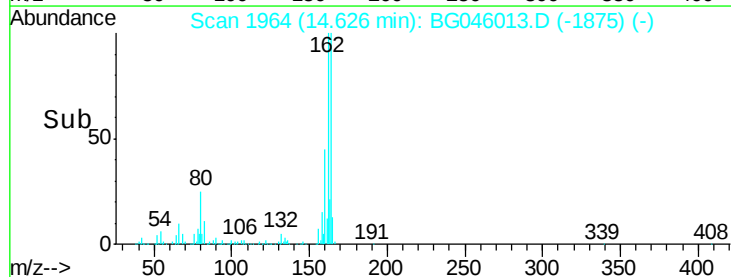
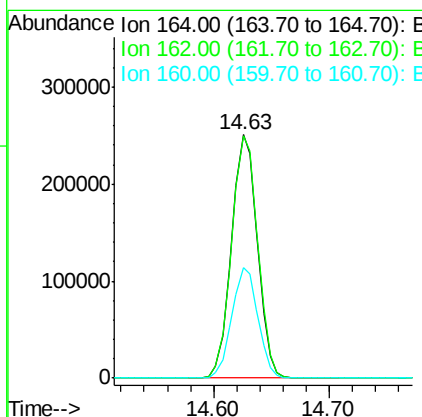
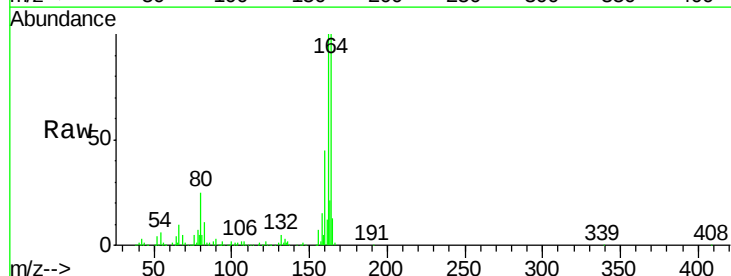
Instrument :  
BNA\_G  
ClientSampleId :  
RO-24

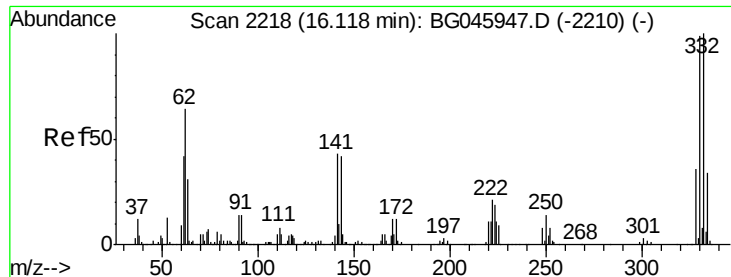
Tot Ion:122 Resp: 176  
Ion Ratio Lower Upper  
122 100  
105 133.1 110.8 150.8  
77 73.7 76.4 116.4#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.63 min Scan# 1964  
Delta R.T. -0.01 min  
Lab File: BG046013.D  
Acq: 10 Jul 2020 19:11

Tgt Ion:164 Resp: 388694  
Ion Ratio Lower Upper  
164 100  
162 99.6 79.3 118.9  
160 45.2 35.7 53.5

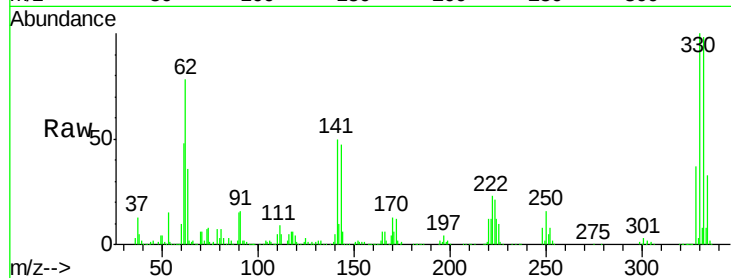




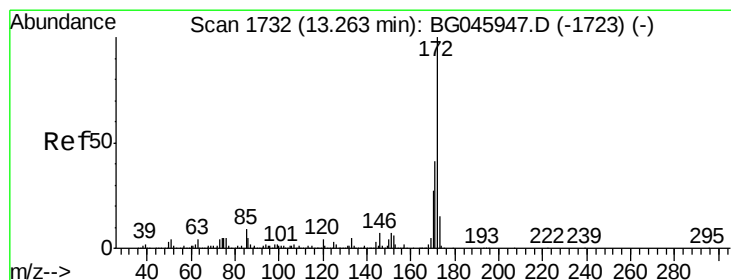
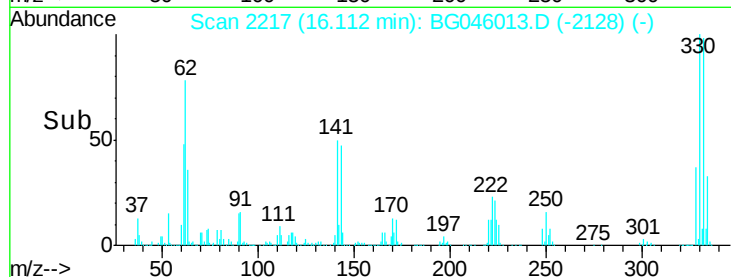
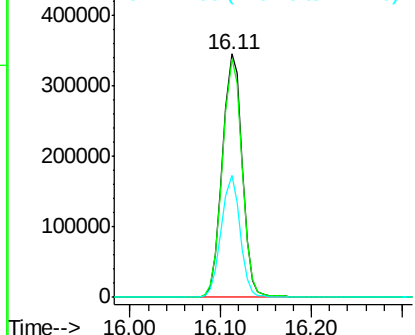
#42  
 2,4,6-Tribromophenol  
 Concen: 145.685 ng  
 RT: 16.11 min Scan# 2217  
 Delta R.T. -0.01 min  
 Lab File: BG046013.D  
 Acq: 10 Jul 2020 19:11

Instrument :  
 BNA\_G  
 ClientSampleId :  
 RO-24

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.4  | 78.3  | 117.5 |
| 141     | 47.7  | 36.6  | 54.8  |

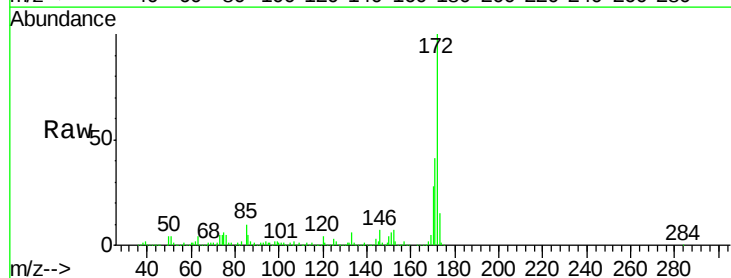


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

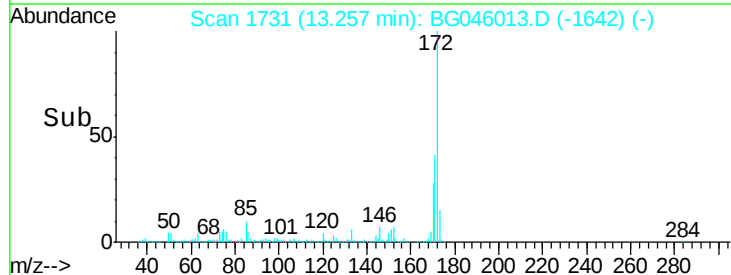
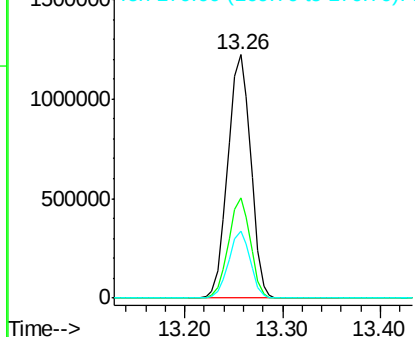


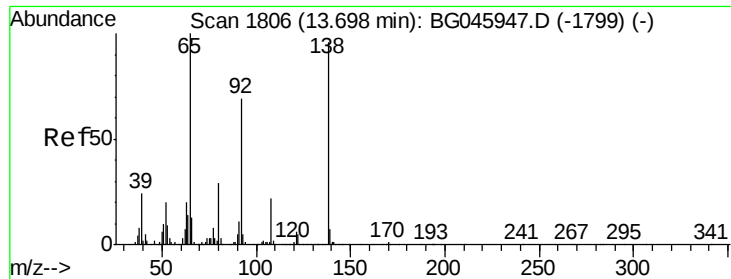
#45  
 2-Fluorobiphenyl  
 Concen: 79.688 ng  
 RT: 13.26 min Scan# 1731  
 Delta R.T. -0.01 min  
 Lab File: BG046013.D  
 Acq: 10 Jul 2020 19:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 41.1  | 32.9  | 49.3  |
| 170     | 27.8  | 21.8  | 32.6  |



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

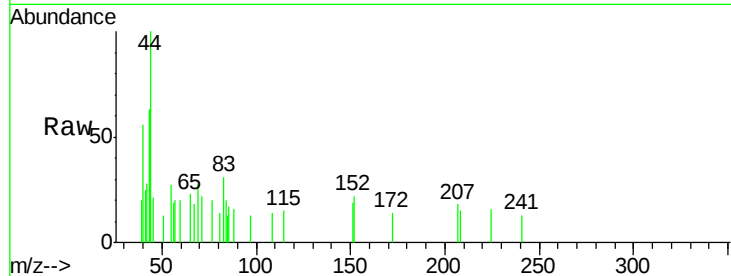




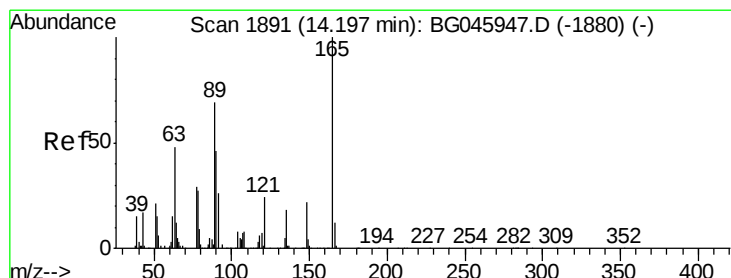
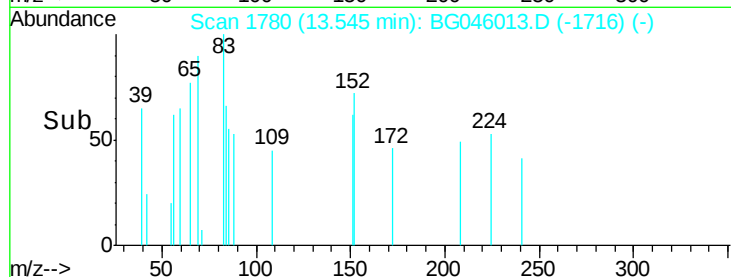
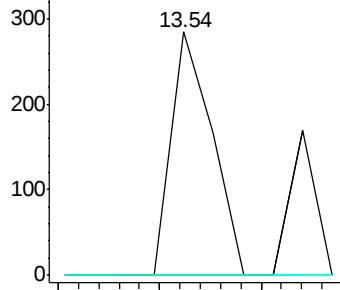
#48  
2-Nitroaniline  
Concen: 3.393 ng  
RT: 13.54 min Scan# 1780  
Delta R.T. -0.15 min  
Lab File: BG046013.D  
Acq: 10 Jul 2020 19:11

Instrument :  
BNA\_G  
ClientSampleId :  
RO-24

Tot Ion: 65 Resp: 159  
Ion Ratio Lower Upper  
65 100  
92 0.0 55.4 83.0#  
138 0.0 77.0 115.4#

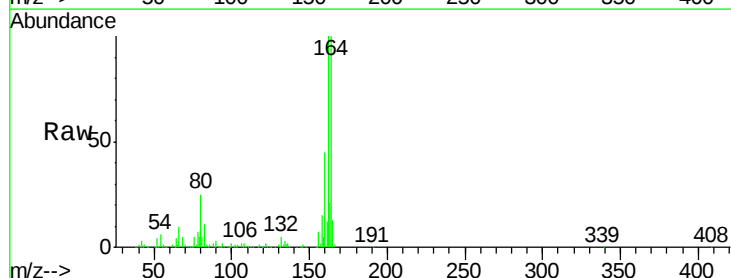


Abundance Ion 65.00 (64.70 to 65.70): BGC  
Ion 92.00 (91.70 to 92.70): BGC  
Ion 138.00 (137.70 to 138.70): BGC

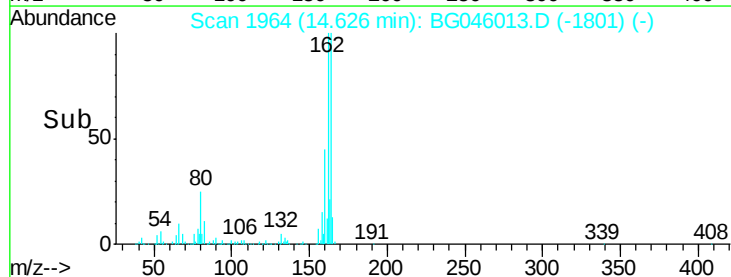
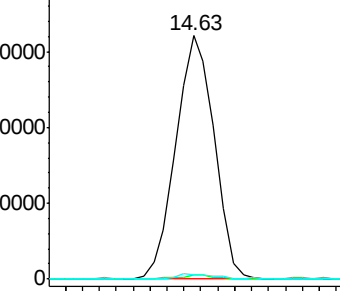


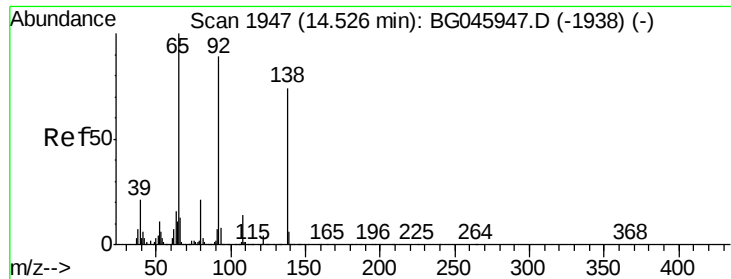
#51  
2,6-Dinitrotoluene  
Concen: 12.348 ng  
RT: 14.63 min Scan# 1964  
Delta R.T. 0.43 min  
Lab File: BG046013.D  
Acq: 10 Jul 2020 19:11

Tgt Ion:165 Resp: 50641  
Ion Ratio Lower Upper  
165 100  
63 1.9 51.0 76.4#  
89 1.9 55.7 83.5#



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





#53

3-Nitroaniline

Concen: 2.991 ng

RT: 14.53 min Scan# 1947

Delta R.T. 0.00 min

Lab File: BG046013.D

Acq: 10 Jul 2020 19:11

Instrument :

BNA\_G

ClientSampleId :

RO-24

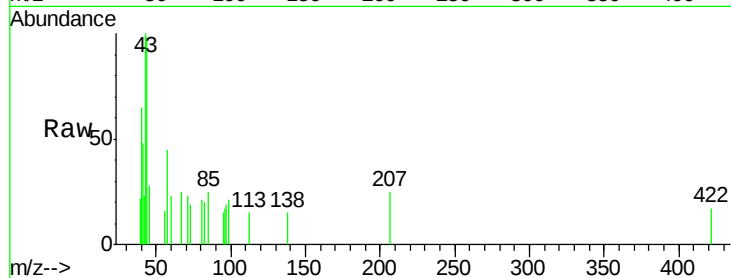
Tot Ion:138 Resp: 53

Ion Ratio Lower Upper

138 100

108 0.0 15.4 23.2#

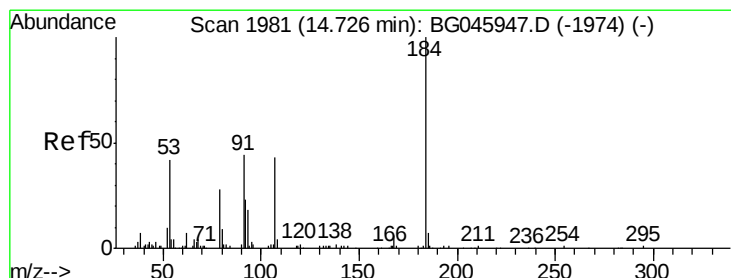
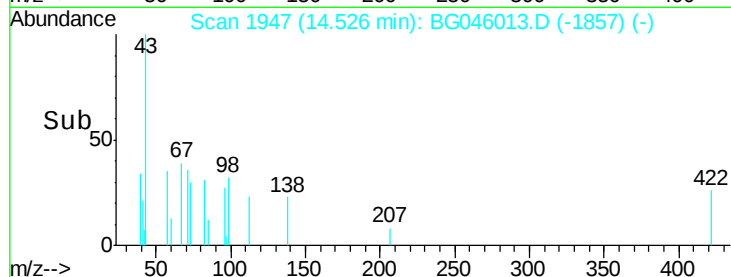
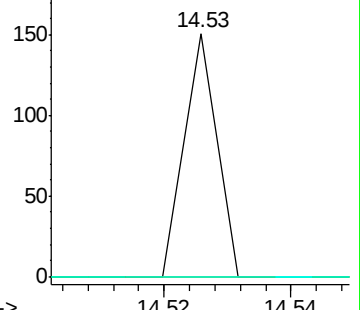
92 0.0 95.9 143.9#



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BGC



#54

2,4-Dinitrophenol

Concen: 6.166 ng

RT: 14.34 min Scan# 1916

Delta R.T. -0.38 min

Lab File: BG046013.D

Acq: 10 Jul 2020 19:11

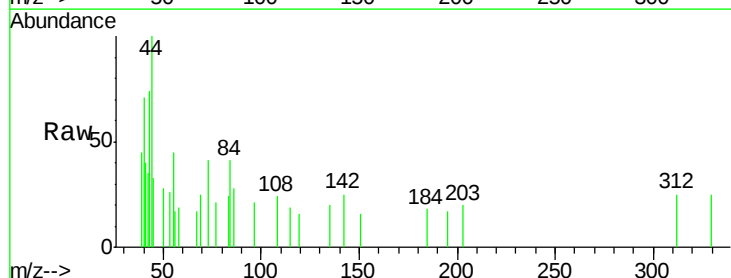
Tgt Ion:184 Resp: 118

Ion Ratio Lower Upper

184 100

63 0.0 46.0 69.0#

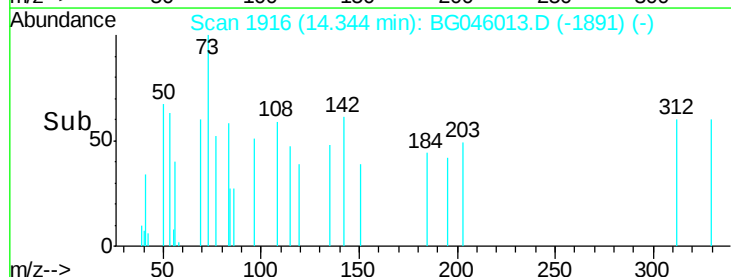
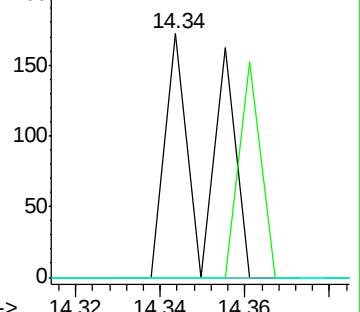
154 0.0 58.2 87.2#

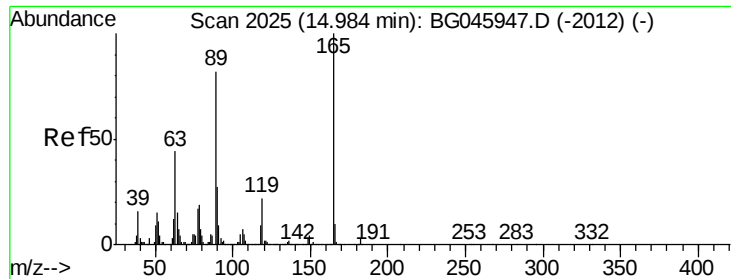


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 154.00 (153.70 to 154.70): E

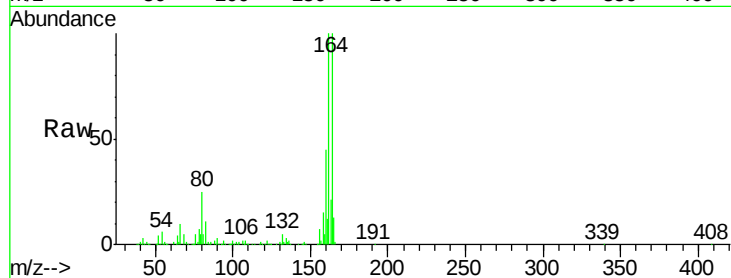




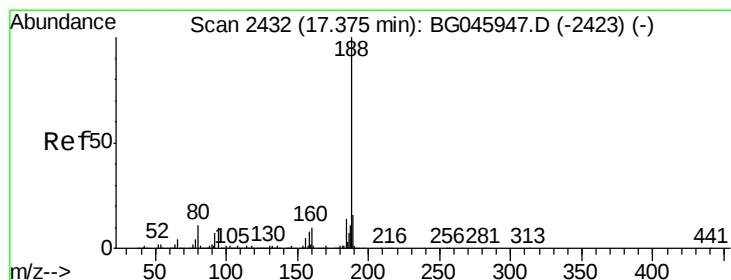
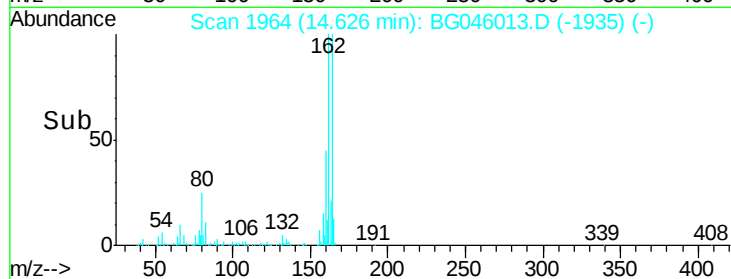
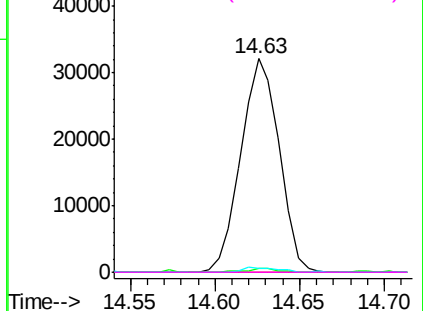
#57  
 2,4-Dinitrotoluene  
 Concen: 10.904 ng  
 RT: 14.63 min Scan# 1964  
 Delta R.T. -0.36 min  
 Lab File: BG046013.D  
 Acq: 10 Jul 2020 19:11

Instrument :  
 BNA\_G  
 ClientSampleId :  
 RO-24

Tot Ion:165 Resp: 50641  
 Ion Ratio Lower Upper  
 165 100  
 63 1.9 35.4 53.0#  
 89 1.9 65.4 98.2#  
 182 0.0 2.0 3.0#

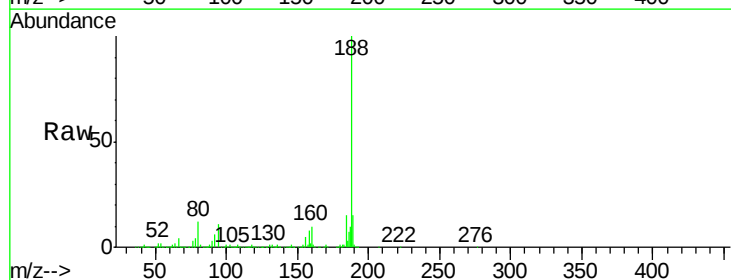


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC  
 Ion 182.00 (181.70 to 182.70): E

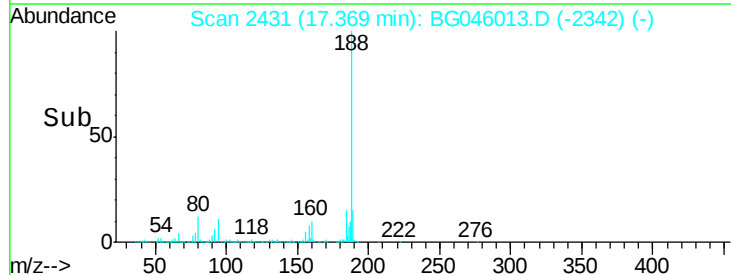
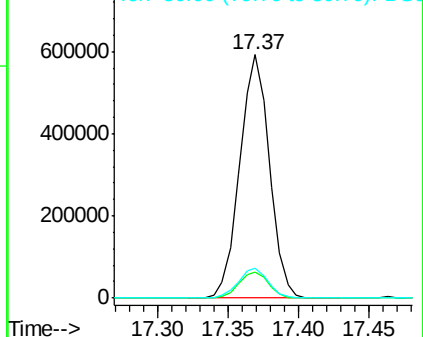


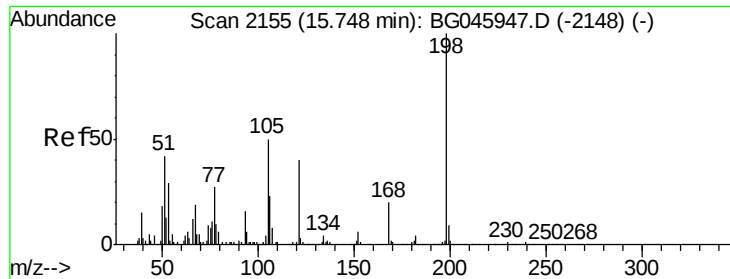
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.37 min Scan# 2431  
 Delta R.T. -0.01 min  
 Lab File: BG046013.D  
 Acq: 10 Jul 2020 19:11

Tgt Ion:188 Resp: 870214  
 Ion Ratio Lower Upper  
 188 100  
 94 10.7 8.2 12.4  
 80 12.3 9.0 13.6



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

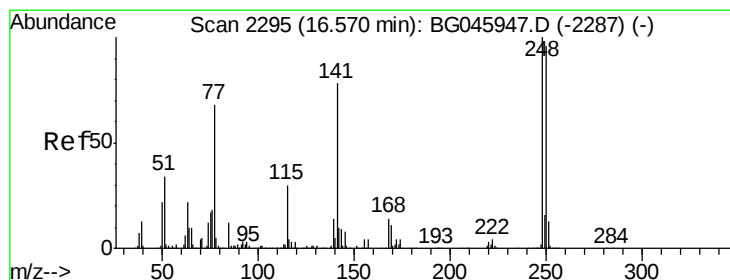
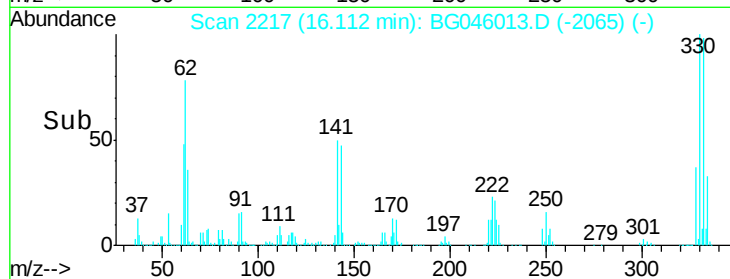
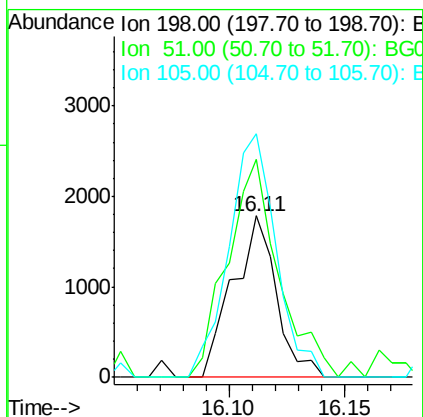
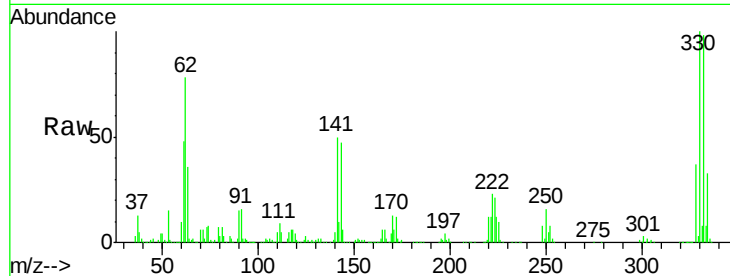




#65  
4,6-Dinitro-2-methylphenol  
Concen: 7.458 ng  
RT: 16.11 min Scan# 2217  
Delta R.T. 0.36 min  
Lab File: BG046013.D  
Acq: 10 Jul 2020 19:11

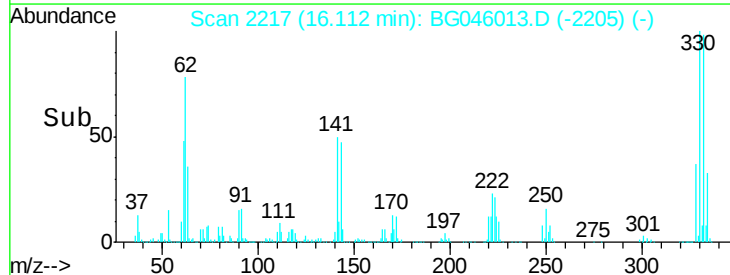
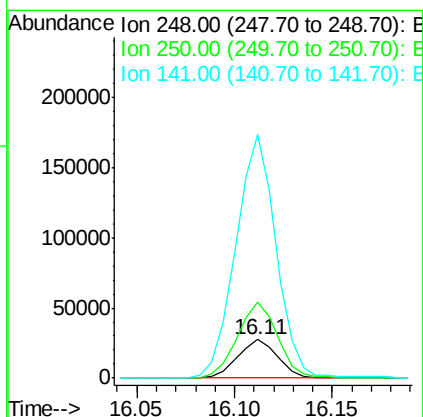
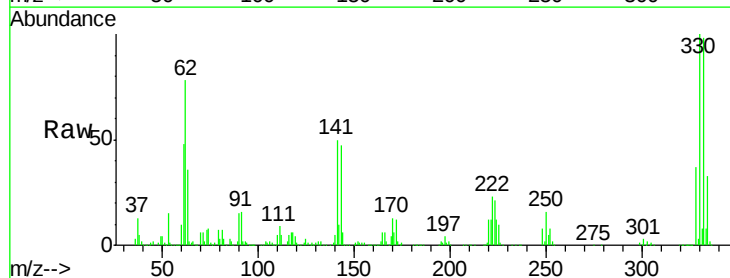
Instrument :  
BNA\_G  
ClientSampleId :  
RO-24

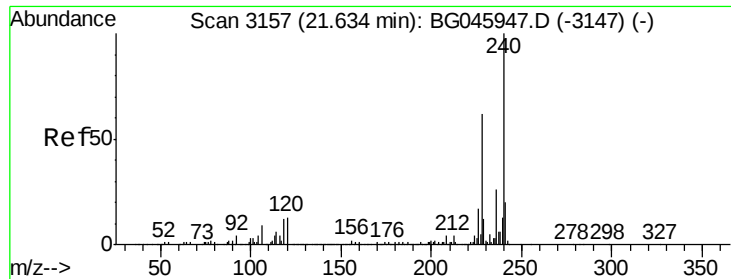
Tot Ion:198 Resp: 2329  
Ion Ratio Lower Upper  
198 100  
51 135.3 24.5 64.5#  
105 151.2 30.9 70.9#



#67  
4-Bromophenyl-phenylether  
Concen: 3.957 ng  
RT: 16.11 min Scan# 2217  
Delta R.T. -0.46 min  
Lab File: BG046013.D  
Acq: 10 Jul 2020 19:11

Tgt Ion:248 Resp: 38457  
Ion Ratio Lower Upper  
248 100  
250 198.0 76.6 114.8#  
141 634.8 62.7 94.1#





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.63 min Scan# 3156

Delta R.T. -0.01 min

Lab File: BG046013.D

Acq: 10 Jul 2020 19:11

Instrument :

BNA\_G

ClientSampleId :

RO-24

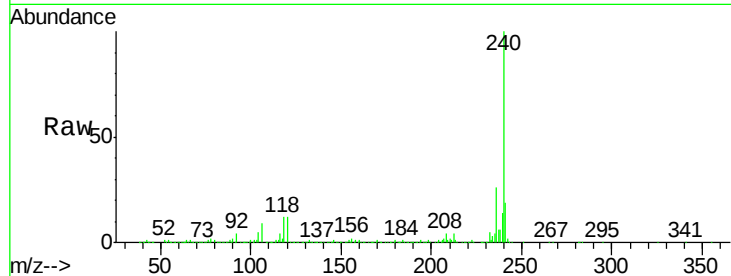
Tot Ion:240 Resp: 764409

Ion Ratio Lower Upper

240 100

120 11.9 10.6 16.0

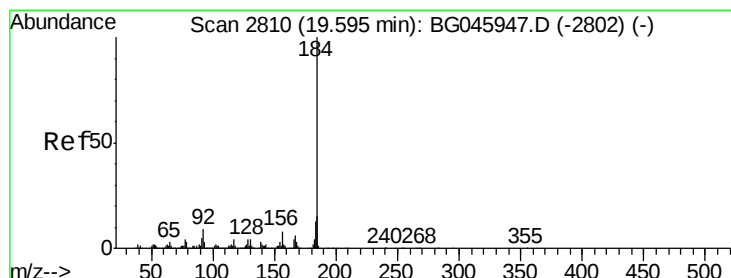
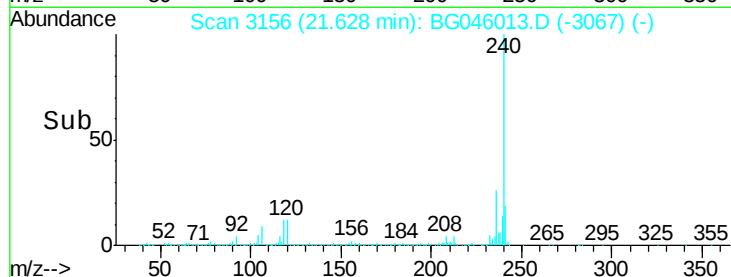
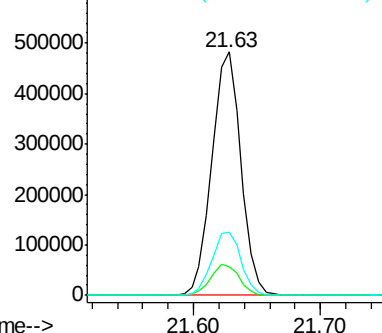
236 25.9 20.4 30.6



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



#77

Benzidine

Concen: 2.808 ng

RT: 19.99 min Scan# 2877

Delta R.T. 0.39 min

Lab File: BG046013.D

Acq: 10 Jul 2020 19:11

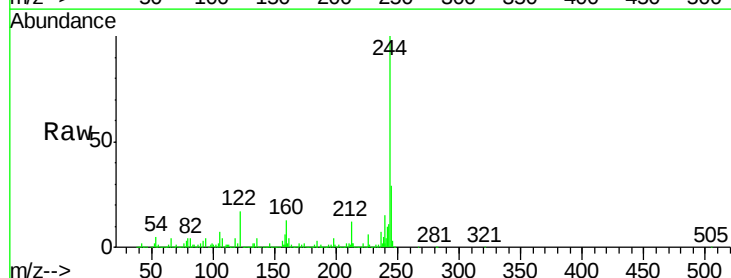
Tgt Ion:184 Resp: 61366

Ion Ratio Lower Upper

184 100

185 18.0 11.6 17.4#

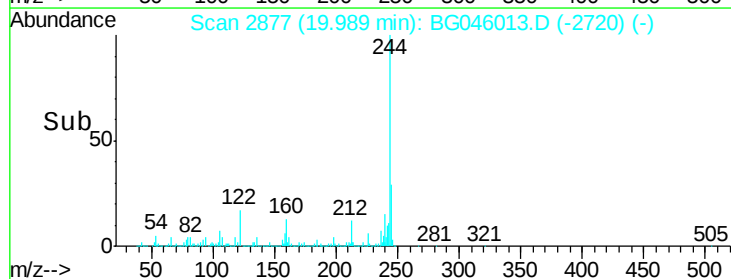
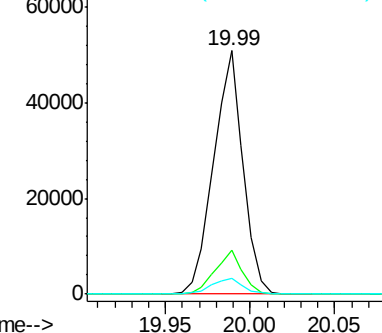
183 6.4 10.4 15.6#

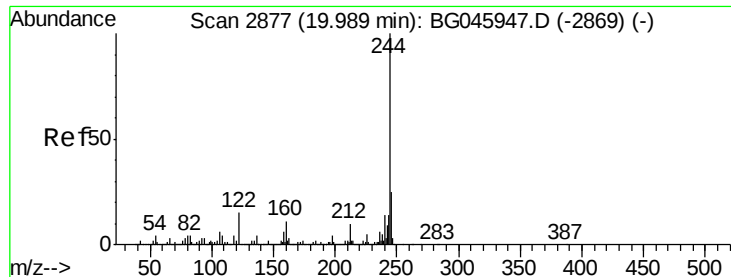


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#79

Terphenyl-d14

Concen: 82.516 ng

RT: 19.99 min Scan# 2877

Delta R.T. -0.00 min

Lab File: BG046013.D

Acq: 10 Jul 2020 19:11

Instrument :

BNA\_G

ClientSampleId :

RO-24

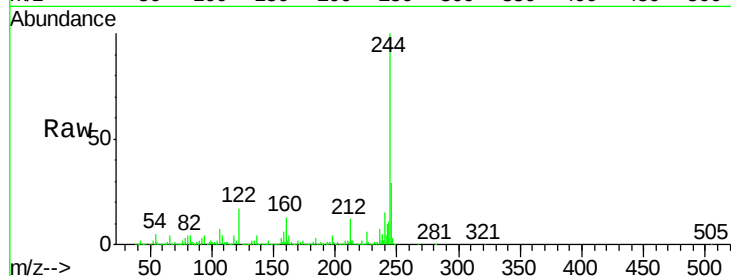
Tot Ion:244 Resp: 2834231

Ion Ratio Lower Upper

244 100

212 11.6 8.3 12.5

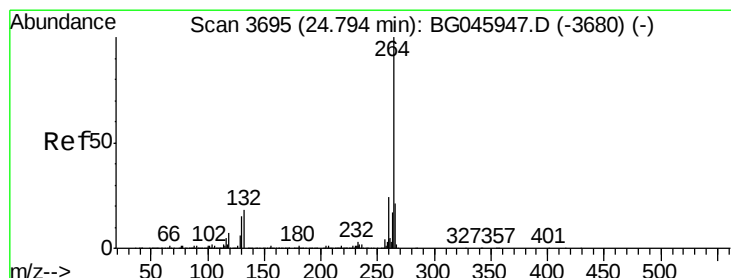
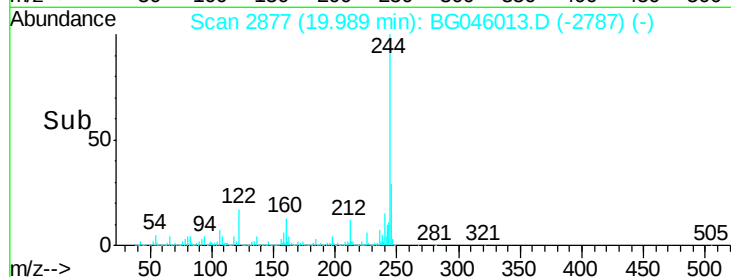
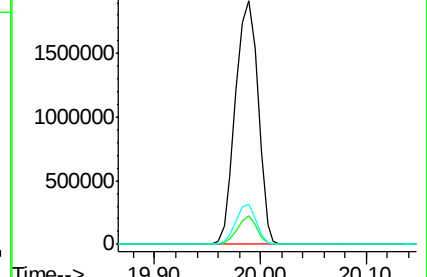
122 16.6 12.1 18.1



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

Perylene-d12

Concen: 20.000 ng

RT: 24.78 min Scan# 3693

Delta R.T. -0.01 min

Lab File: BG046013.D

Acq: 10 Jul 2020 19:11

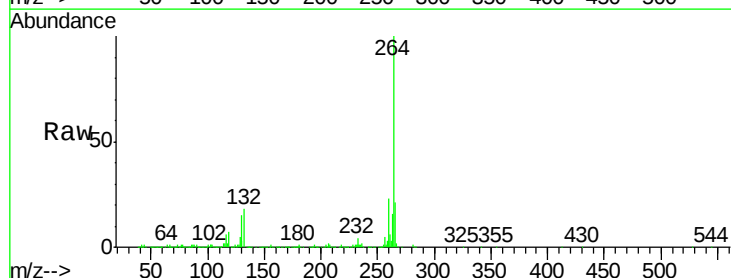
Tgt Ion:264 Resp: 755262

Ion Ratio Lower Upper

264 100

260 22.9 19.0 28.6

265 21.4 16.9 25.3



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

