

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG052120\  
 Data File : BG045453.D  
 Acq On : 21 May 2020 23:43  
 Operator : CG/JU  
 Sample : L2727-02  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: May 22 01:01:13 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG051520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 20 14:43:36 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.96  | 152  | 61342    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.77 | 136  | 248915   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.61 | 164  | 178961   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.35 | 188  | 435867   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.61 | 240  | 445266   | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 24.76 | 264  | 479097   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.56  | 112  | 396049   | 126.18 | ng    | 0.00     |
| 7) Phenol-d6                | 7.19  | 99   | 616629   | 138.03 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.12  | 82   | 447443   | 98.02  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.10 | 330  | 409961   | 179.12 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.22 | 172  | 1103358  | 104.58 | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.97 | 244  | 2137032  | 111.94 | ng    | 0.00     |

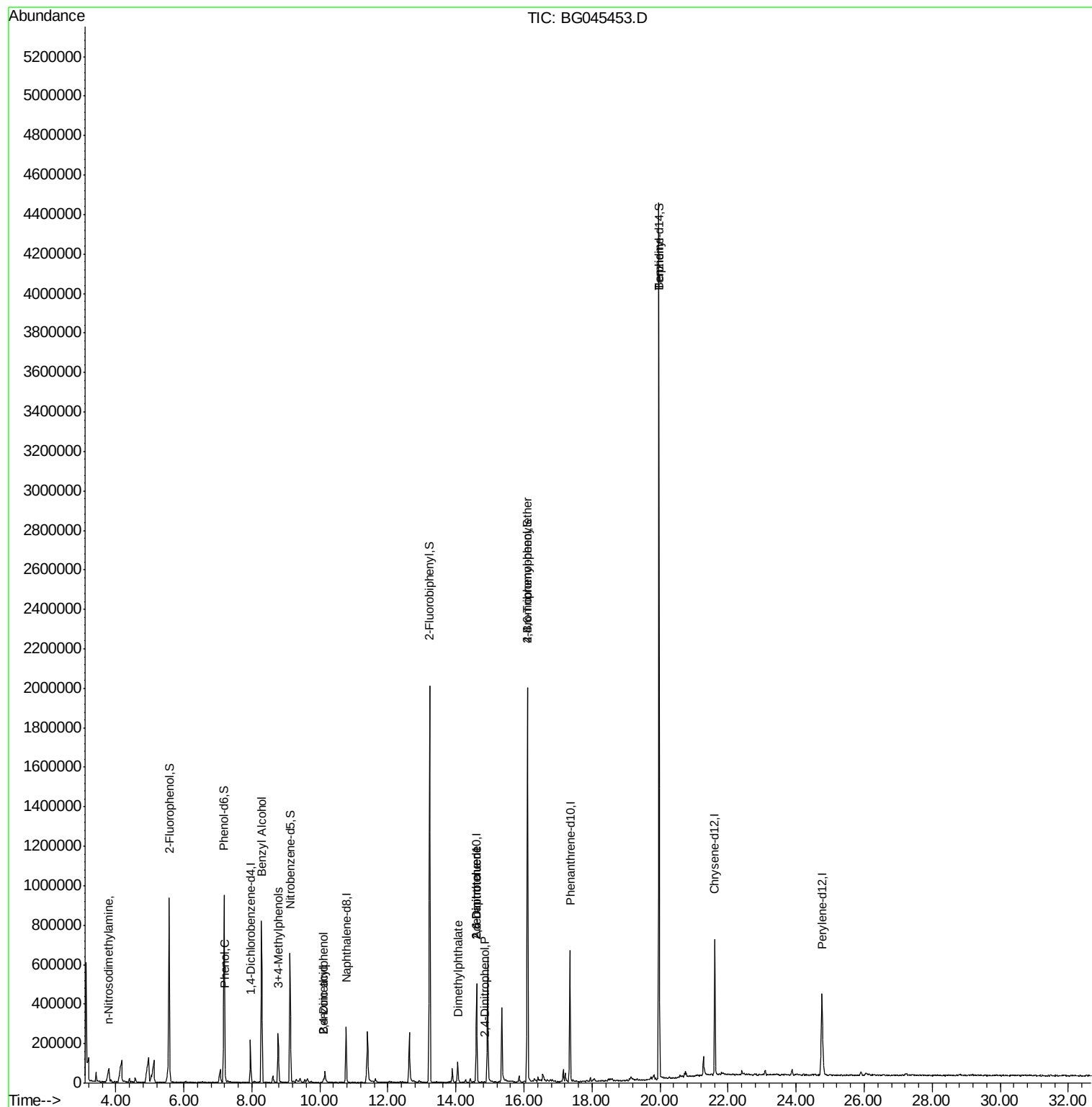
| Target Compounds              | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|-------|------|----------|--------|-------|--------|
| 4) n-Nitrosodimethylamine     | 3.80  | 42   | 9222     | 6.501  | ng    | # 1    |
| 10) Phenol                    | 7.21  | 94   | 19870    | 4.315  | ng    | # 74   |
| 15) Benzyl Alcohol            | 8.28  | 79   | 7555     | 2.047  | ng    | # 55   |
| 20) 3+4-Methylphenols         | 8.77  | 107  | 119470   | 25.457 | ng    | # 87   |
| 27) 2,4-Dimethylphenol        | 10.11 | 122  | 10466    | 3.373  | ng    | # 1    |
| 32) Benzoic acid              | 10.11 | 122  | 10466    | 13.946 | ng    | # 94   |
| 50) Dimethylphthalate         | 14.05 | 163  | 66184    | 5.391  | ng    | # 98   |
| 51) 2,6-Dinitrotoluene        | 14.61 | 165  | 24108    | 8.703  | ng    | # 24   |
| 54) 2,4-Dinitrophenol         | 14.85 | 184  | 55       | 5.487  | ng    | # 17   |
| 57) 2,4-Dinitrotoluene        | 14.61 | 165  | 24108    | 6.009  | ng    | # 24   |
| 67) 4-Bromophenyl-phenylether | 16.10 | 248  | 27126    | 5.747  | ng    | # 1    |
| 77) Benzidine                 | 19.97 | 184  | 41916    | 3.352  | ng    | # 92   |

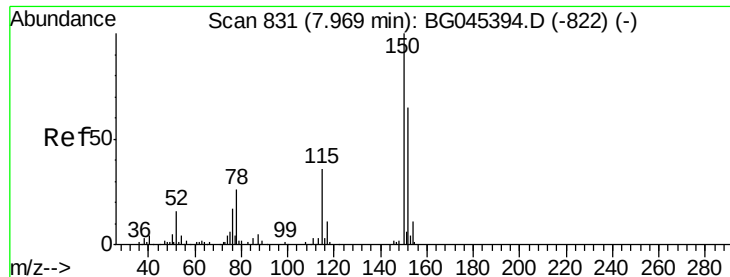
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
BNA\_G  
ClientSampleId :

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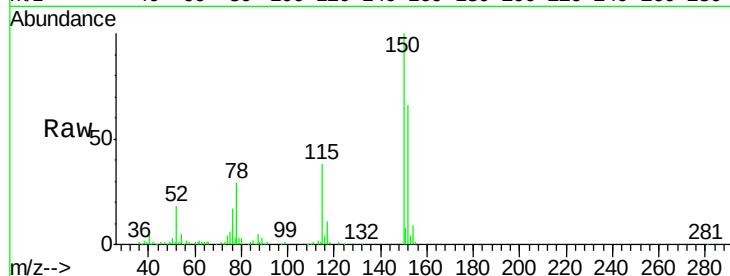


#1

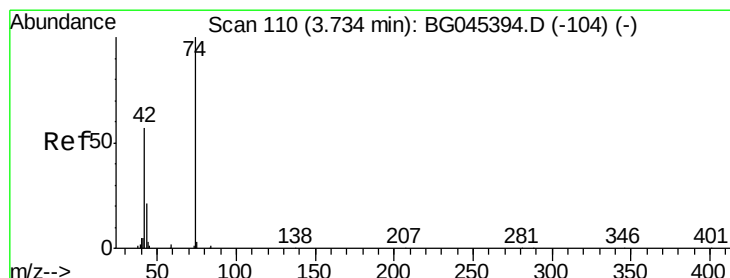
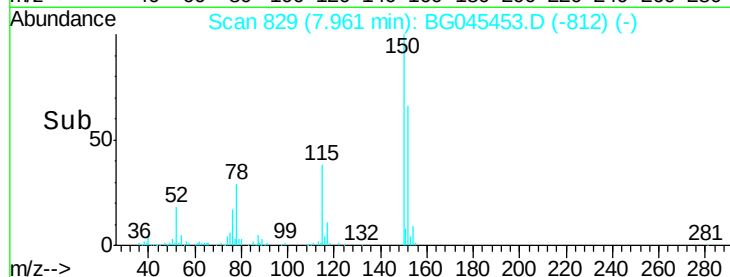
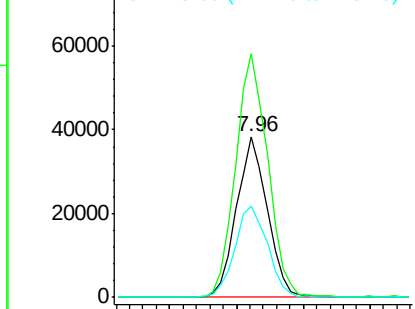
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.96 min Scan# 829  
Delta R.T. 0.00 min  
Lab File: BG045453.D  
Acq: 21 May 2020 23:43

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 61342  
Ion Ratio Lower Upper  
152 100  
150 151.7 122.4 183.6  
115 57.1 44.2 66.4



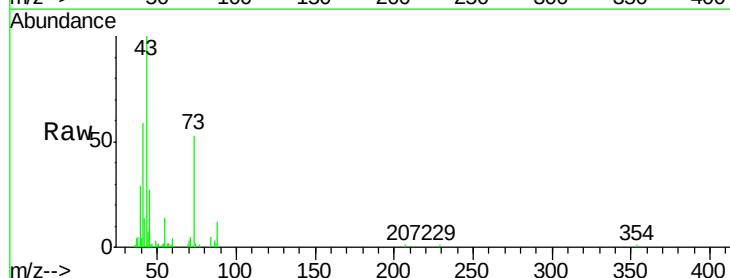
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



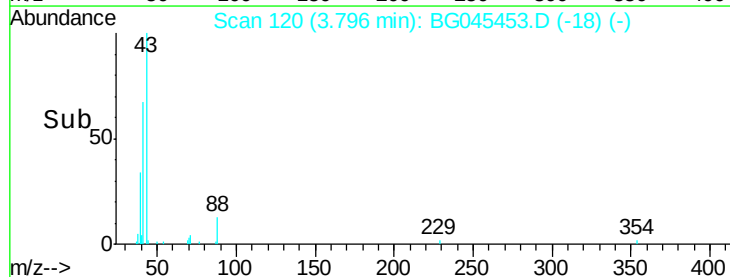
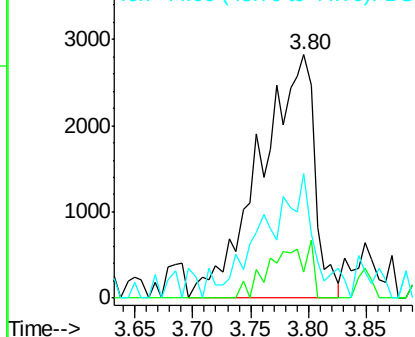
#4

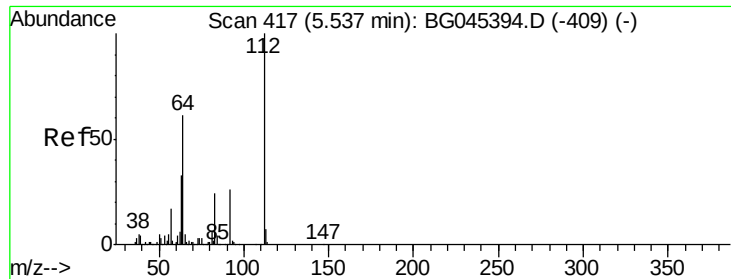
n-Nitrosodimethylamine  
Concen: 6.501 ng  
RT: 3.80 min Scan# 120  
Delta R.T. 0.07 min  
Lab File: BG045453.D  
Acq: 21 May 2020 23:43

Tgt Ion: 42 Resp: 9222  
Ion Ratio Lower Upper  
42 100  
74 10.8 141.3 211.9#  
44 51.0 4.2 6.4#



Abundance Ion 42.00 (41.70 to 42.70): BGC  
Ion 74.00 (73.70 to 74.70): BGC  
Ion 44.00 (43.70 to 44.70): BGC





#5

2-Fluorophenol

Concen: 126.177 ng

RT: 5.56 min Scan# 421

Delta R.T. -0.00 min

Lab File: BG045453.D

Acq: 21 May 2020 23:43

Instrument :

BNA\_G

ClientSampleId :

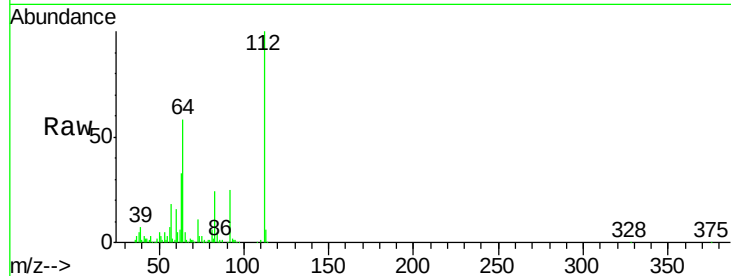
Tot Ion:112 Resp: 396049

Ion Ratio Lower Upper

112 100

64 57.8 48.6 72.8

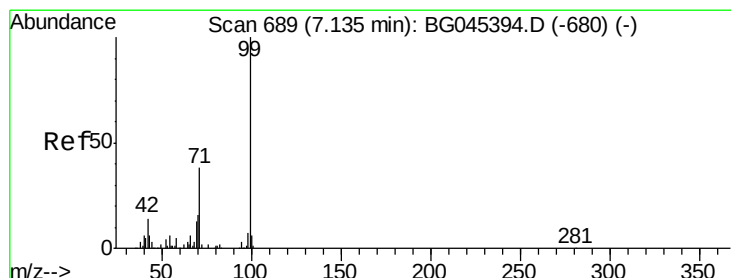
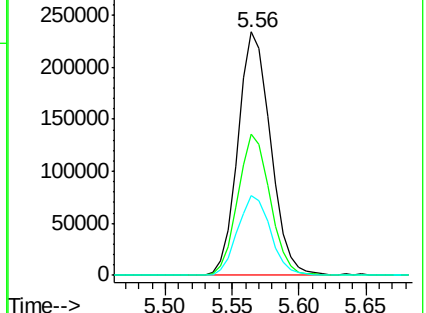
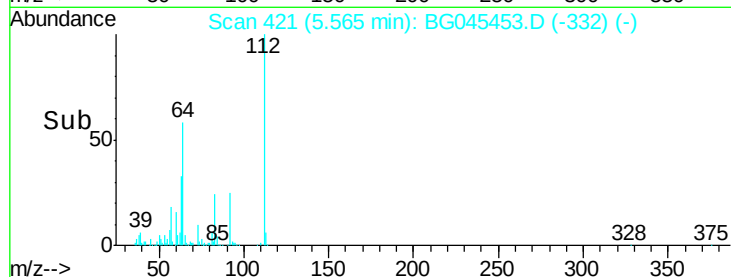
63 32.8 26.5 39.7



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC



#7

Phenol-d6

Concen: 138.026 ng

RT: 7.19 min Scan# 697

Delta R.T. -0.00 min

Lab File: BG045453.D

Acq: 21 May 2020 23:43

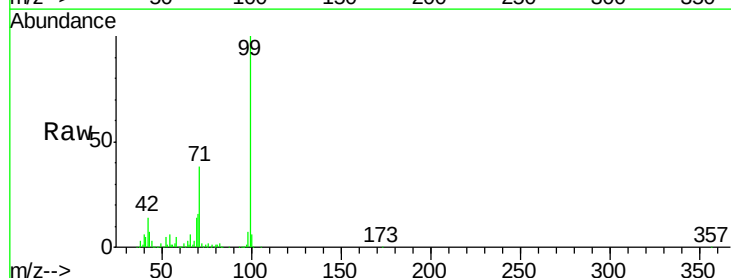
Tgt Ion: 99 Resp: 616629

Ion Ratio Lower Upper

99 100

42 13.9 11.3 16.9

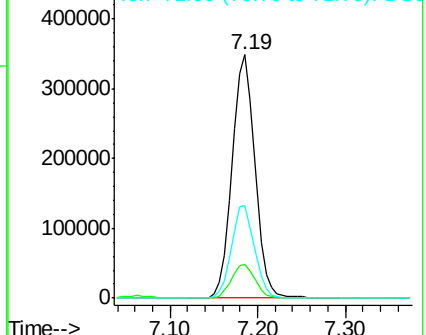
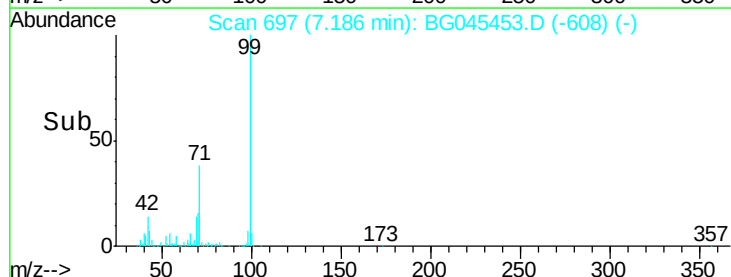
71 38.2 30.8 46.2

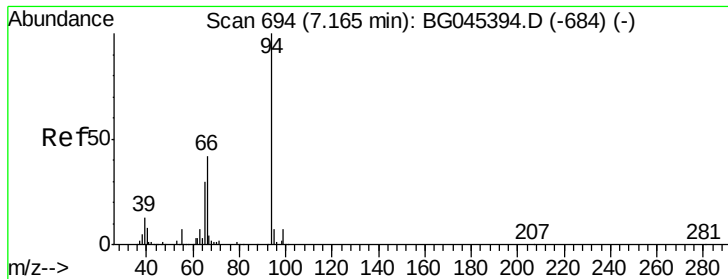


Abundance Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC

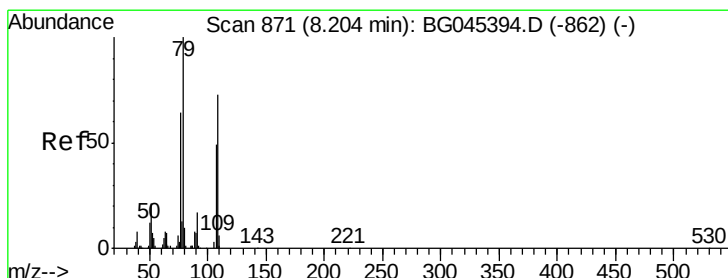
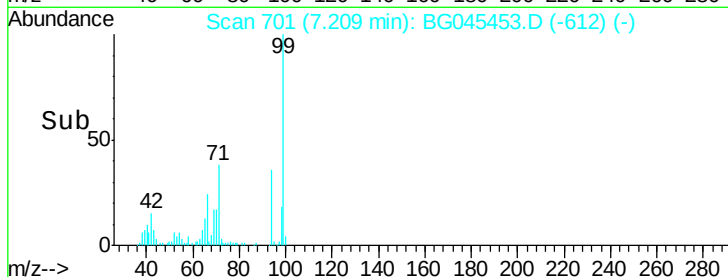
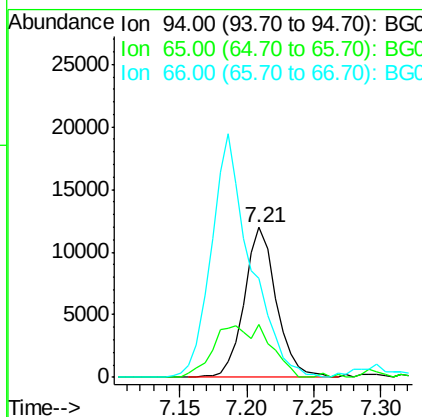
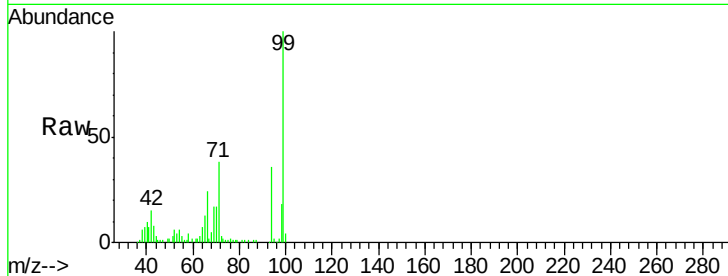




#10  
Phenol  
Concen: 4.315 ng  
RT: 7.21 min Scan# 701  
Delta R.T. -0.00 min  
Lab File: BG045453.D  
Acq: 21 May 2020 23:43

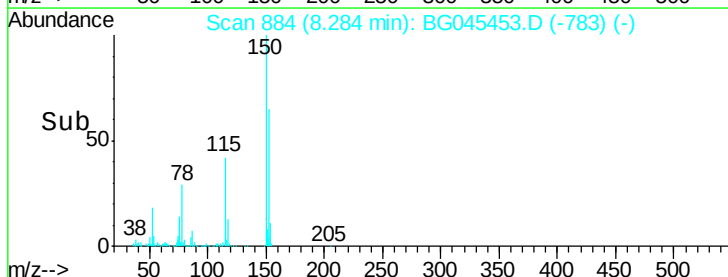
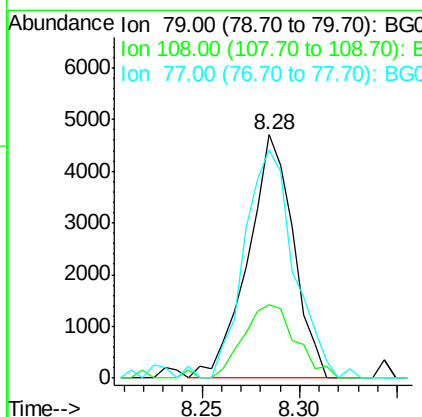
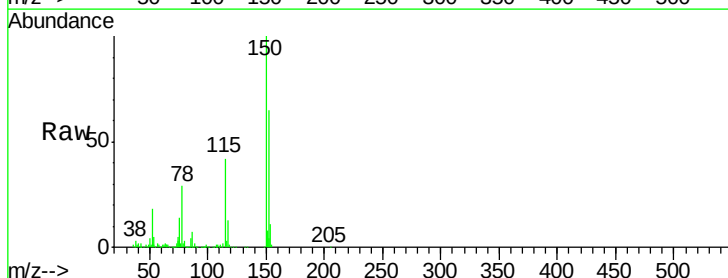
Instrument :  
BNA\_G  
ClientSampleId :

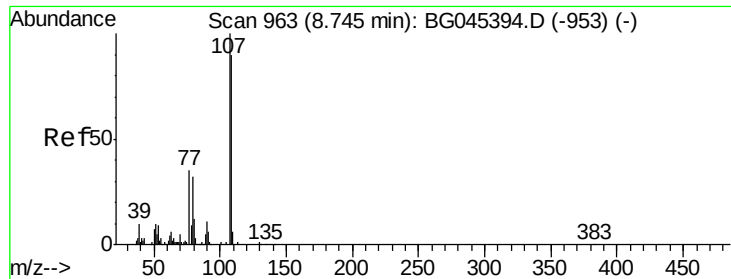
Tot Ion: 94 Resp: 19870  
Ion Ratio Lower Upper  
94 100  
65 35.4 9.8 49.8  
66 65.8 22.0 62.0#



#15  
Benzyl Alcohol  
Concen: 2.047 ng  
RT: 8.28 min Scan# 884  
Delta R.T. 0.07 min  
Lab File: BG045453.D  
Acq: 21 May 2020 23:43

Tgt Ion: 79 Resp: 7555  
Ion Ratio Lower Upper  
79 100  
108 30.0 58.2 87.4#  
77 93.5 51.0 76.4#





#20

3+4-Methylphenols

Concen: 25.457 ng

RT: 8.77 min Scan# 967

Delta R.T. -0.01 min

Lab File: BG045453.D

Acq: 21 May 2020 23:43

Instrument :

BNA\_G

ClientSampleId :

Tot Ion:107 Resp: 119470

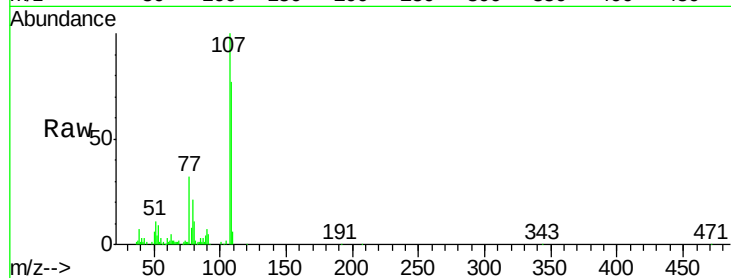
Ion Ratio Lower Upper

107 100

108 77.1 70.3 110.3

77 31.9 15.4 55.4

79 21.4 12.6 52.6

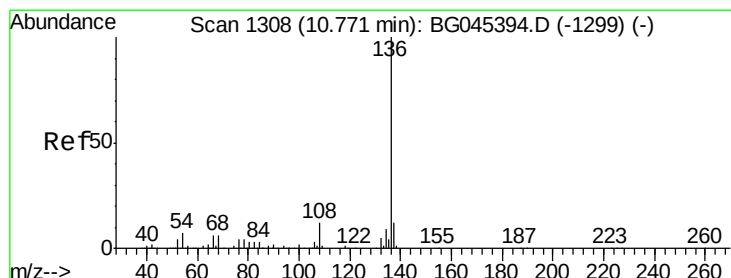
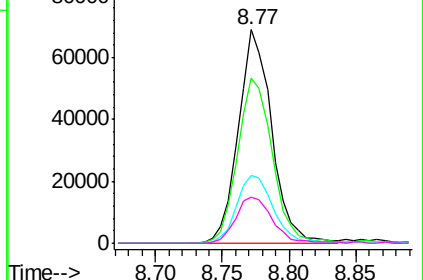
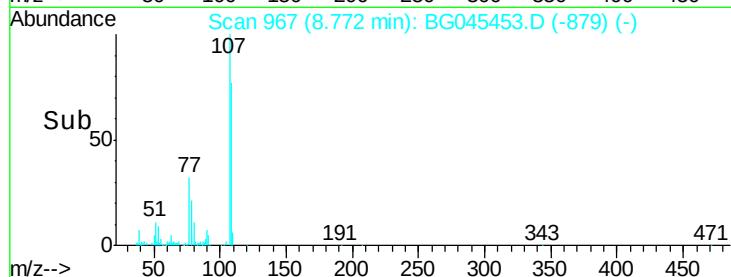


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BGC

Ion 79.00 (78.70 to 79.70): BGC



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.77 min Scan# 1307

Delta R.T. 0.00 min

Lab File: BG045453.D

Acq: 21 May 2020 23:43

Tgt Ion:136 Resp: 248915

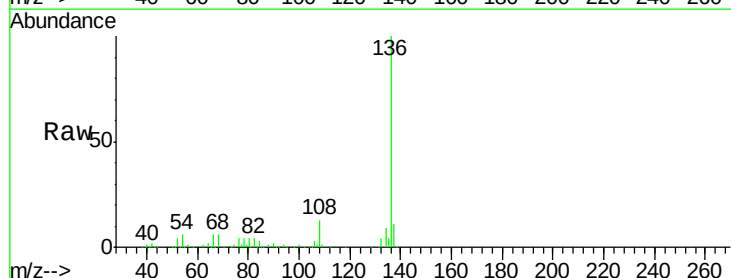
Ion Ratio Lower Upper

136 100

137 10.9 9.4 14.2

54 6.0 5.8 8.6

68 6.2 4.5 6.7

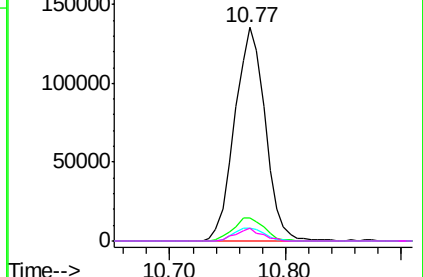
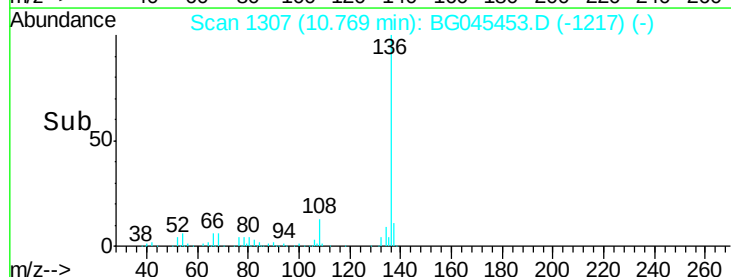


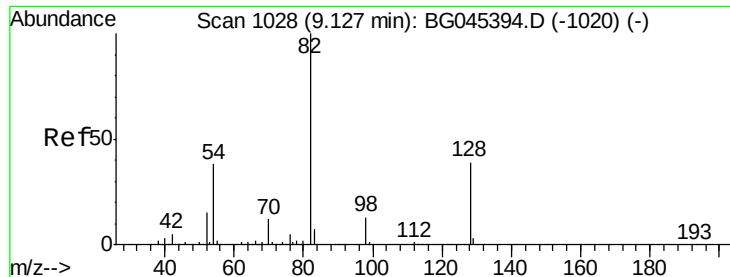
Abundance Ion 136.00 (135.70 to 136.70): E

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

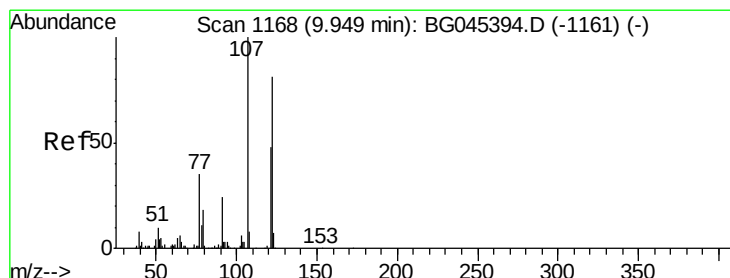
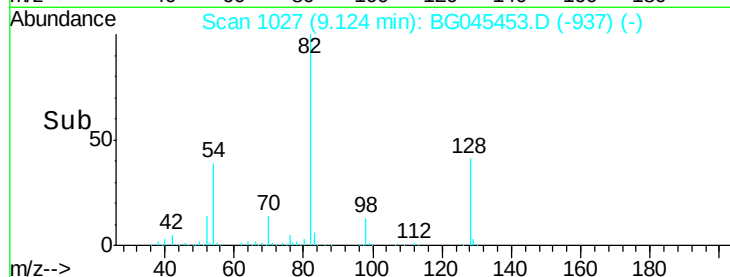
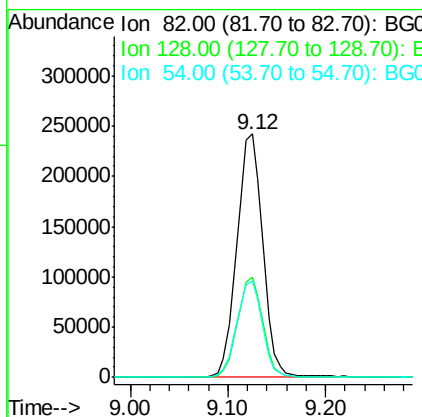
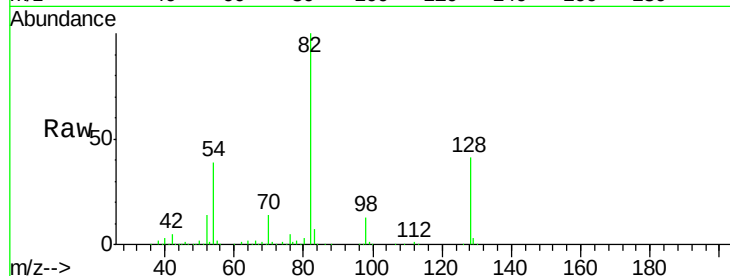




#23  
 Nitrobenzene-d5  
 Concen: 98.024 ng  
 RT: 9.12 min Scan# 1027  
 Delta R.T. 0.00 min  
 Lab File: BG045453.D  
 Acq: 21 May 2020 23:43

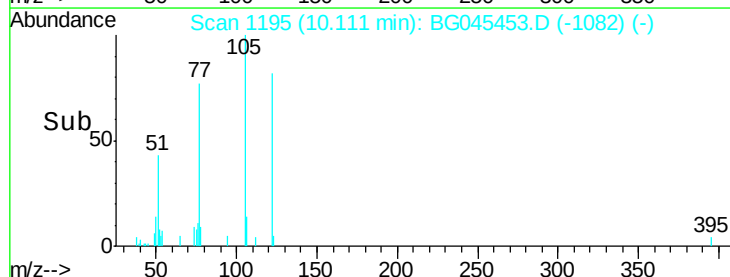
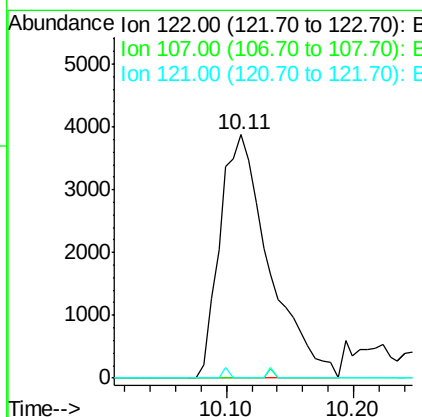
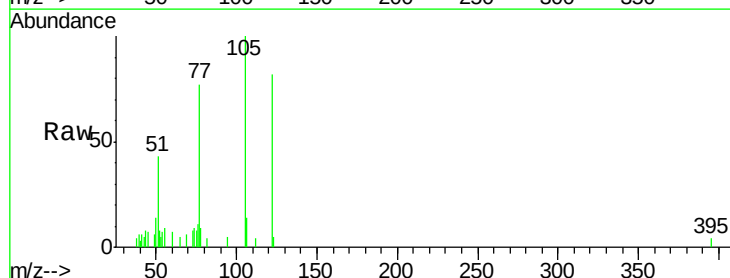
Instrument :  
 BNA\_G  
 ClientSampleId :

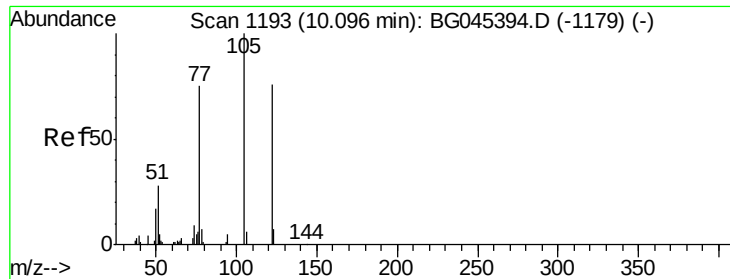
| Tot Ion   | 82    | Resp  | 447443 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 40.9  | 30.9  | 46.3   |
| 54        | 39.5  | 30.3  | 45.5   |



#27  
 2,4-Dimethylphenol  
 Concen: 3.373 ng  
 RT: 10.11 min Scan# 1195  
 Delta R.T. 0.14 min  
 Lab File: BG045453.D  
 Acq: 21 May 2020 23:43

| Tgt Ion   | 122   | Resp  | 10466  |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 122       | 100   |       |        |
| 107       | 0.0   | 99.0  | 148.4# |
| 121       | 0.0   | 47.7  | 71.5#  |

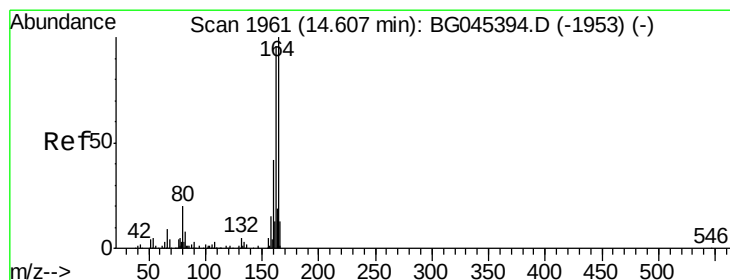
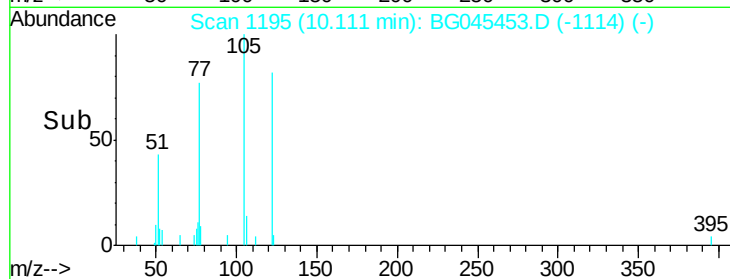
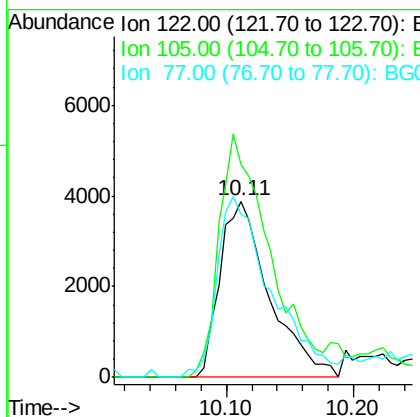
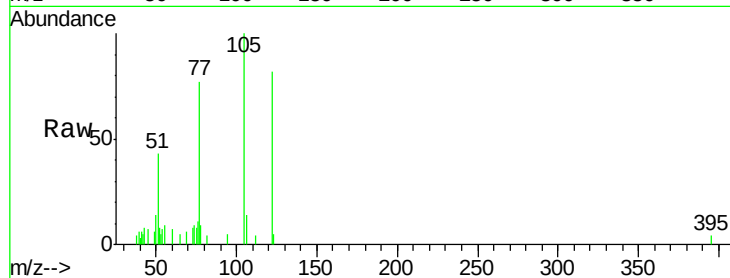




#32  
Benzoic acid  
Concen: 13.946 ng  
RT: 10.11 min Scan# 1195  
Delta R.T. -0.05 min  
Lab File: BG045453.D  
Acq: 21 May 2020 23:43

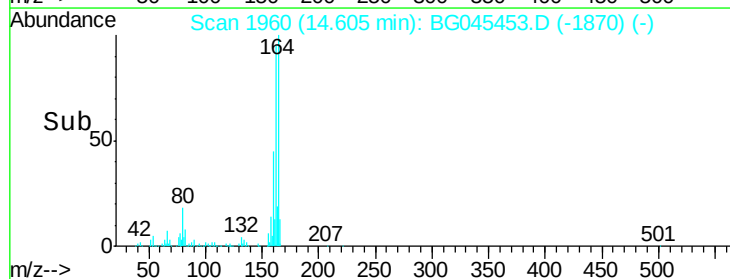
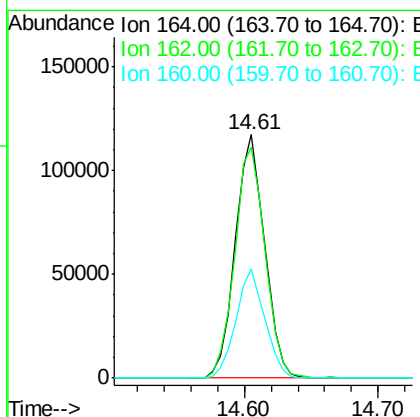
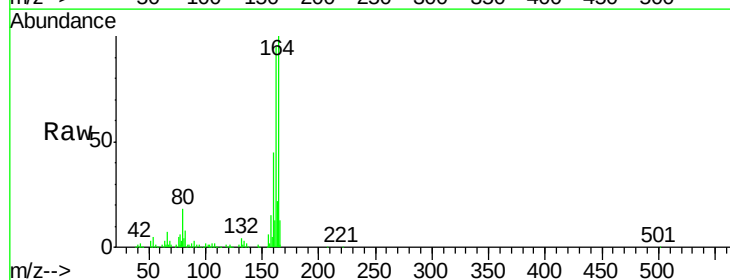
Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 122     | 100   |       |       |
| 105     | 121.3 | 107.9 | 147.9 |
| 77      | 93.0  | 78.9  | 118.9 |

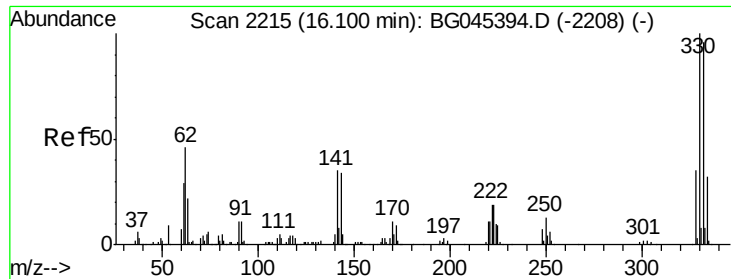


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.61 min Scan# 1960  
Delta R.T. 0.00 min  
Lab File: BG045453.D  
Acq: 21 May 2020 23:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 94.6  | 76.9  | 115.3 |
| 160     | 44.8  | 33.8  | 50.8  |







#42

2,4,6-Tribromophenol

Concen: 179.123 ng

RT: 16.10 min Scan# 2215

Delta R.T. 0.00 min

Lab File: BG045453.D

Acq: 21 May 2020 23:43

Instrument :

BNA\_G

ClientSampleId :

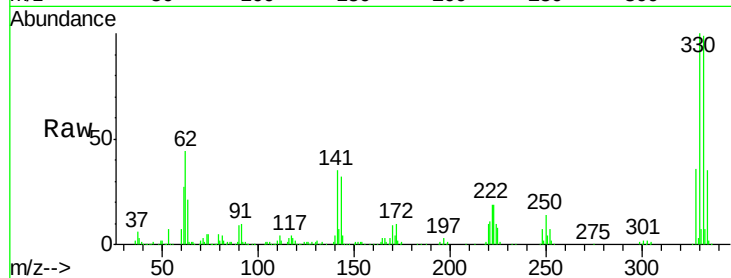
Tot Ion:330 Resp: 409961

Ion Ratio Lower Upper

330 100

332 97.1 78.2 117.4

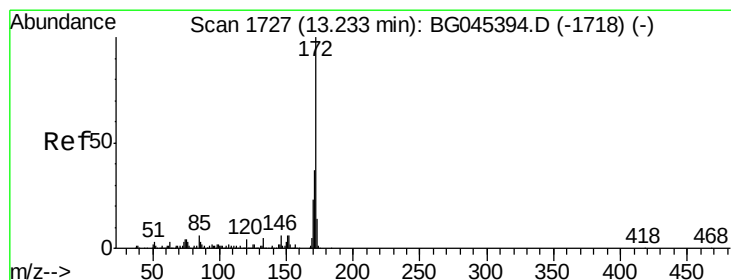
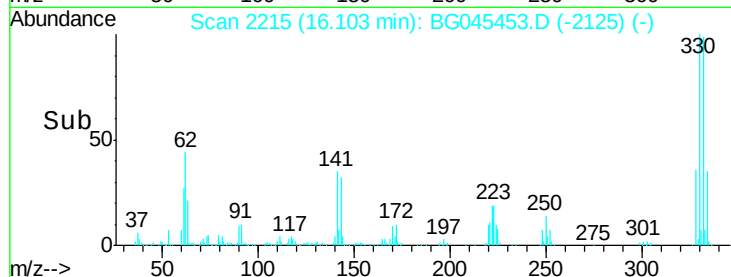
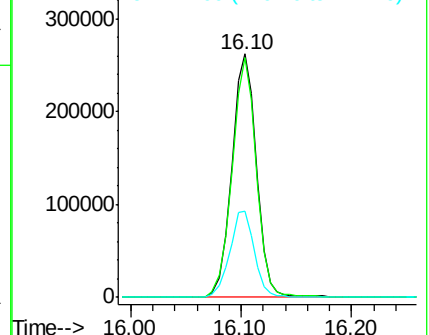
141 35.6 28.2 42.4



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: 104.577 ng

RT: 13.22 min Scan# 1725

Delta R.T. -0.00 min

Lab File: BG045453.D

Acq: 21 May 2020 23:43

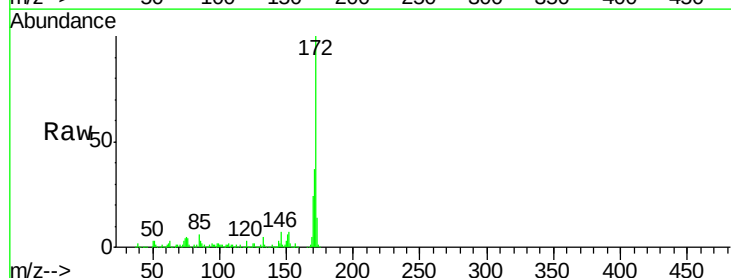
Tgt Ion:172 Resp: 1103358

Ion Ratio Lower Upper

172 100

171 37.4 29.5 44.3

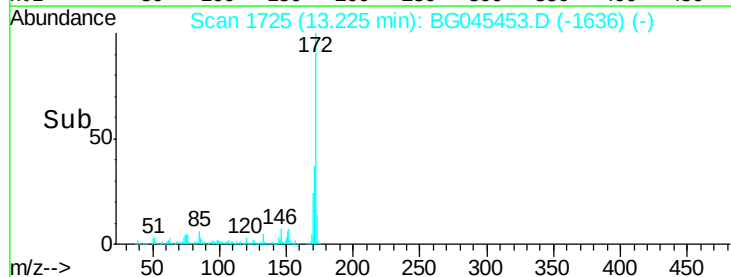
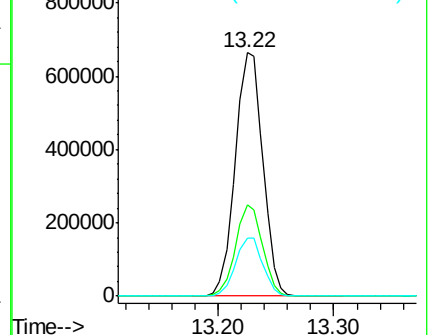
170 23.8 18.5 27.7

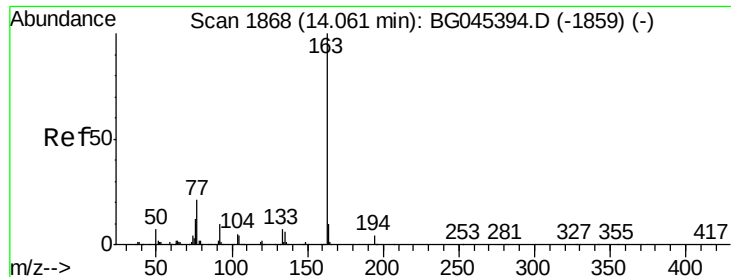


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 5.391 ng

RT: 14.05 min Scan# 1866

Delta R.T. -0.01 min

Lab File: BG045453.D

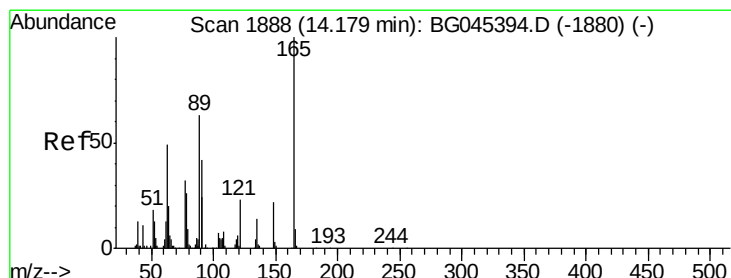
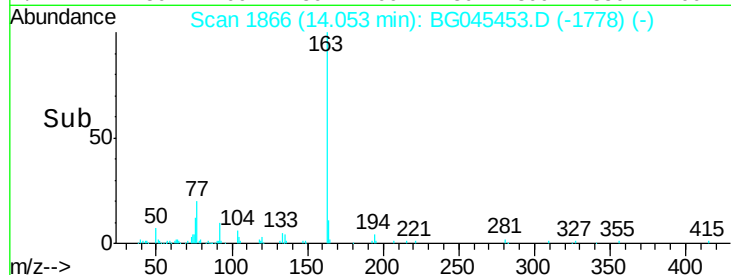
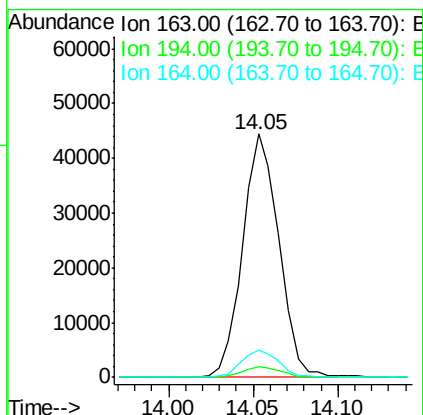
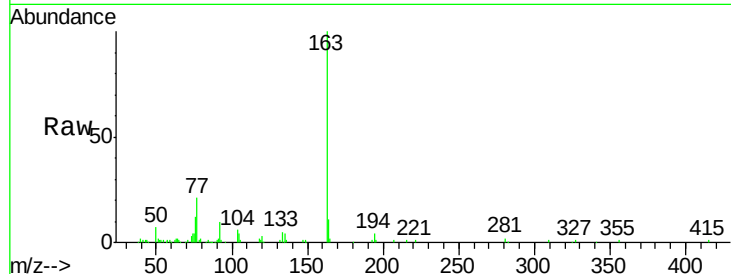
Acq: 21 May 2020 23:43

Instrument :

BNA\_G

ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:163 | Resp: | 66184    |
| Ion Ratio   | Lower | Upper    |
| 163         | 100   |          |
| 194         | 4.2   | 3.2 4.8  |
| 164         | 11.1  | 8.3 12.5 |



#51

2,6-Dinitrotoluene

Concen: 8.703 ng

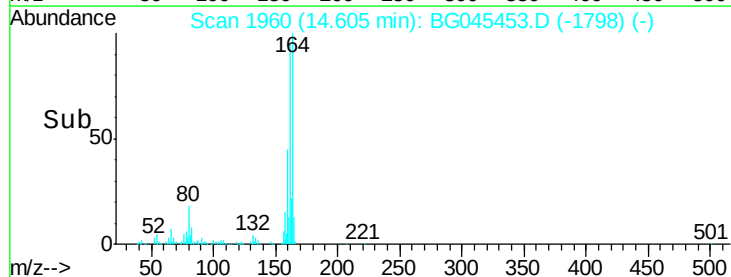
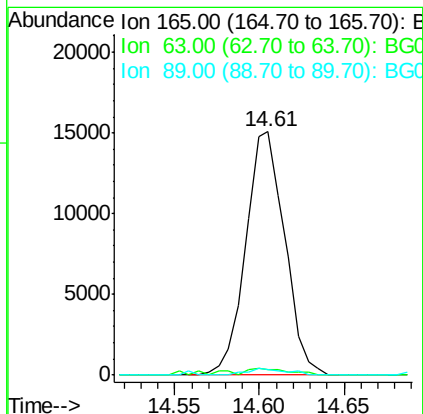
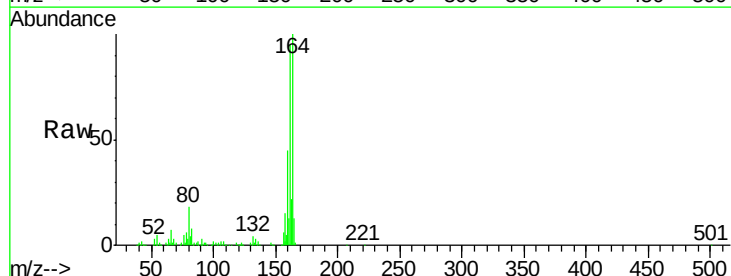
RT: 14.61 min Scan# 1960

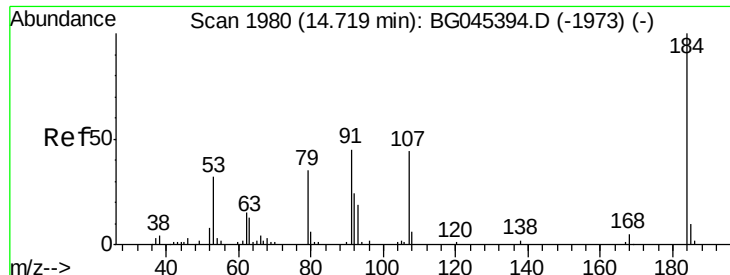
Delta R.T. 0.42 min

Lab File: BG045453.D

Acq: 21 May 2020 23:43

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:165 | Resp: | 24108      |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 2.1   | 45.0 67.4# |
| 89          | 2.1   | 50.2 75.4# |

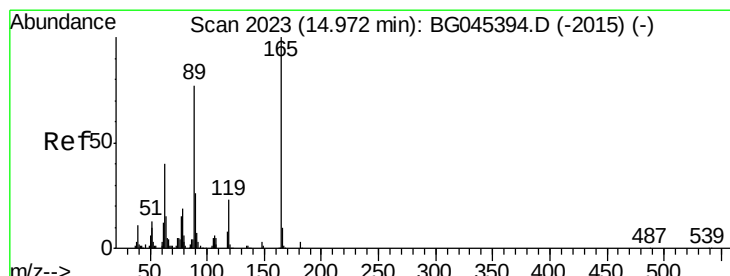
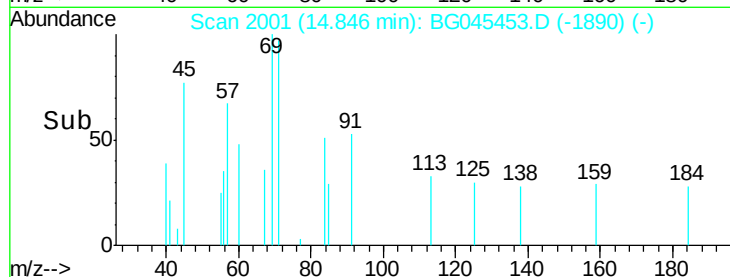
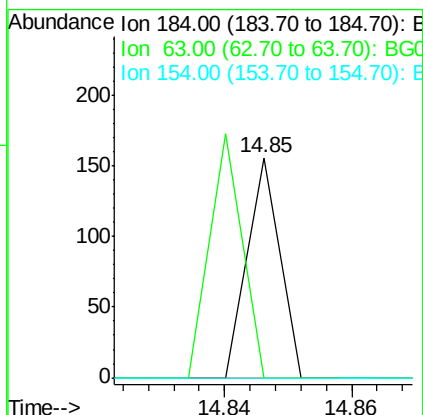
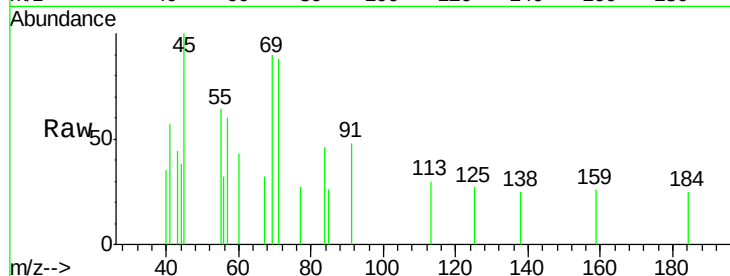




#54  
 2,4-Dinitrophenol  
 Concen: 5.487 ng  
 RT: 14.85 min Scan# 2001  
 Delta R.T. 0.12 min  
 Lab File: BG045453.D  
 Acq: 21 May 2020 23:43

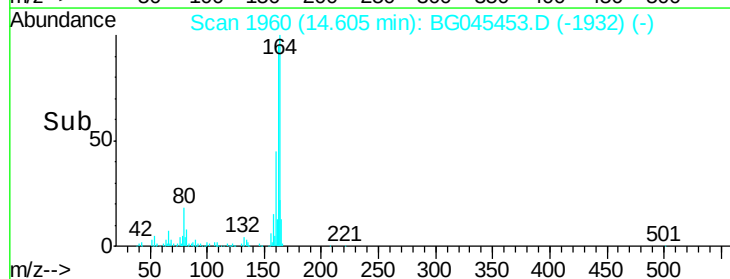
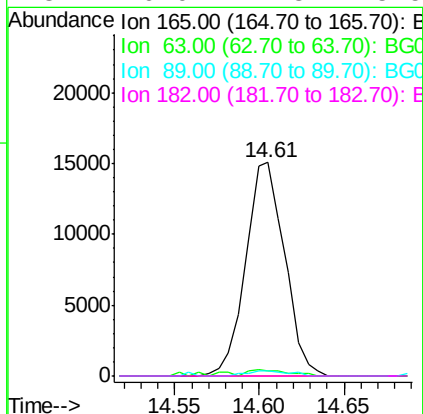
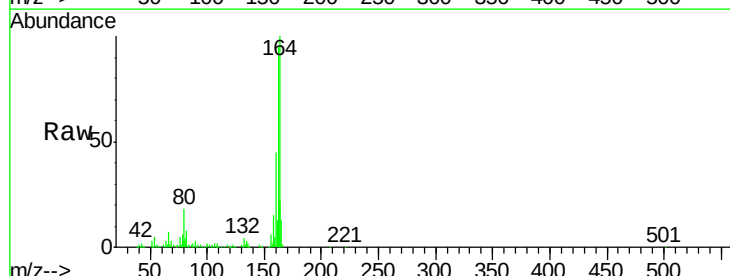
Instrument :  
 BNA\_G  
 ClientSampled :

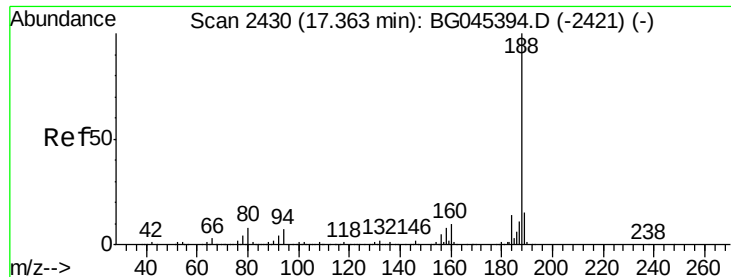
Tot Ion:184 Resp: 55  
 Ion Ratio Lower Upper  
 184 100  
 63 0.0 47.8 71.6#  
 154 0.0 58.3 87.5#



#57  
 2,4-Dinitrotoluene  
 Concen: 6.009 ng  
 RT: 14.61 min Scan# 1960  
 Delta R.T. -0.36 min  
 Lab File: BG045453.D  
 Acq: 21 May 2020 23:43

Tgt Ion:165 Resp: 24108  
 Ion Ratio Lower Upper  
 165 100  
 63 2.1 32.5 48.7#  
 89 2.1 61.8 92.6#  
 182 0.0 2.3 3.5#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.35 min Scan# 2427

Delta R.T. -0.00 min

Lab File: BG045453.D

Acq: 21 May 2020 23:43

Instrument :

BNA\_G

ClientSampleId :

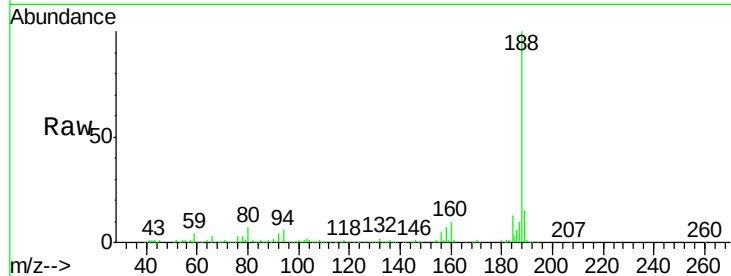
Tot Ion:188 Resp: 435867

Ion Ratio Lower Upper

188 100

94 6.3 5.5 8.3

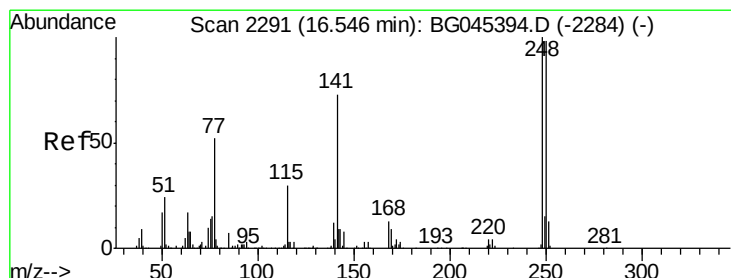
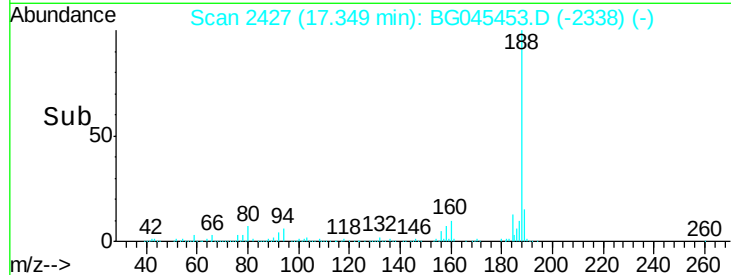
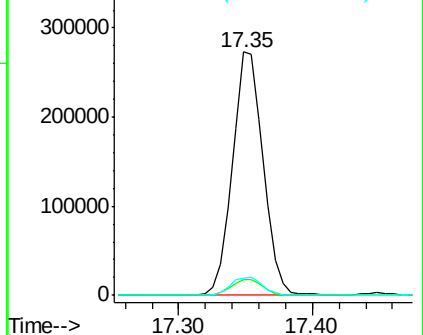
80 7.3 6.6 10.0



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



#67

4-Bromophenyl-phenylether

Concen: 5.747 ng

RT: 16.10 min Scan# 2215

Delta R.T. -0.44 min

Lab File: BG045453.D

Acq: 21 May 2020 23:43

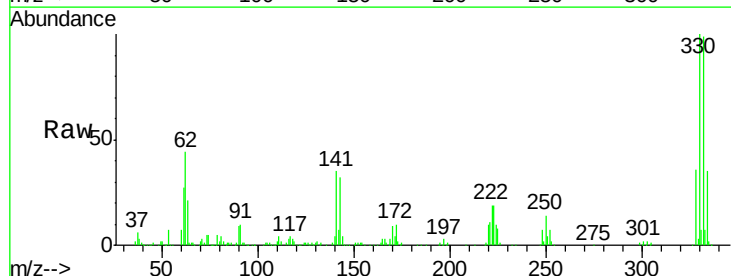
Tgt Ion:248 Resp: 27126

Ion Ratio Lower Upper

248 100

250 196.4 78.6 117.8#

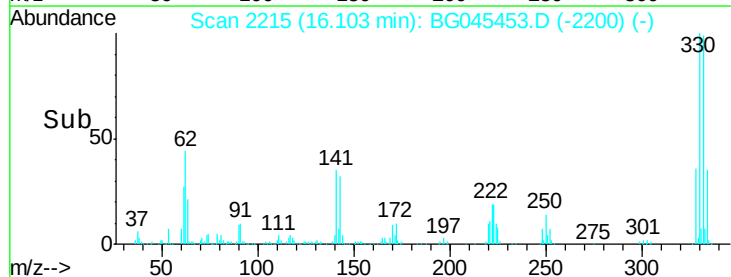
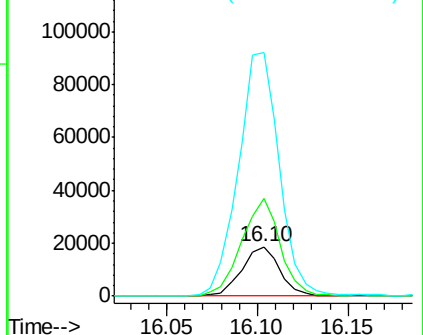
141 490.3 58.2 87.2#

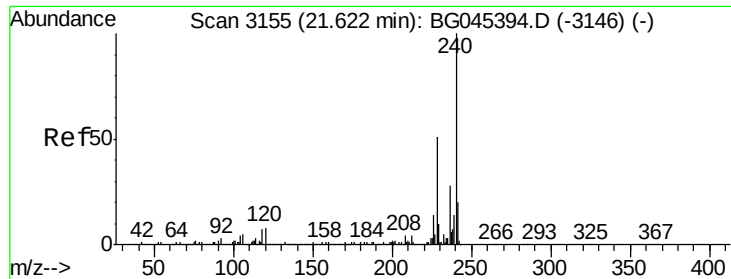


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.61 min Scan# 3152

Delta R.T. -0.01 min

Lab File: BG045453.D

Acq: 21 May 2020 23:43

Instrument :

BNA\_G

ClientSampleId :

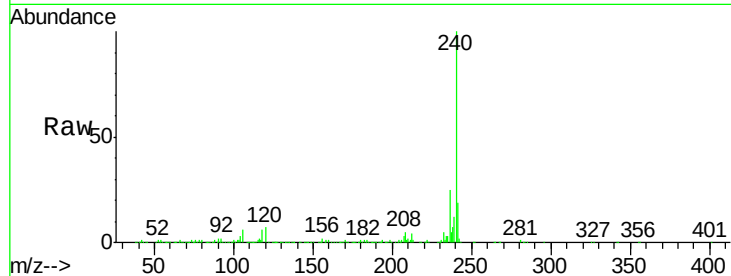
Tot Ion:240 Resp: 445266

Ion Ratio Lower Upper

240 100

120 7.1 6.1 9.1

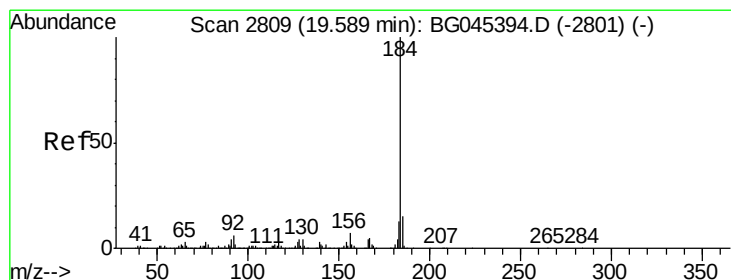
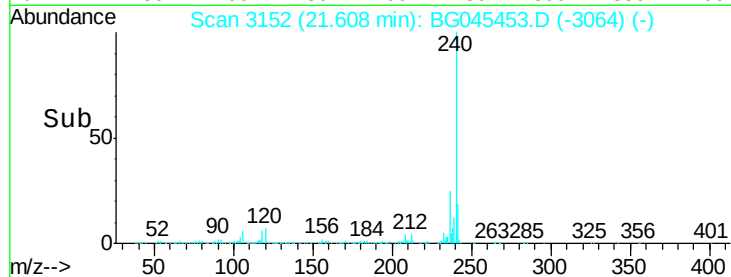
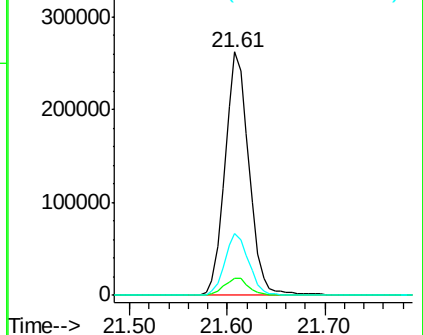
236 25.5 22.3 33.5



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: 3.352 ng

RT: 19.97 min Scan# 2873

Delta R.T. 0.38 min

Lab File: BG045453.D

Acq: 21 May 2020 23:43

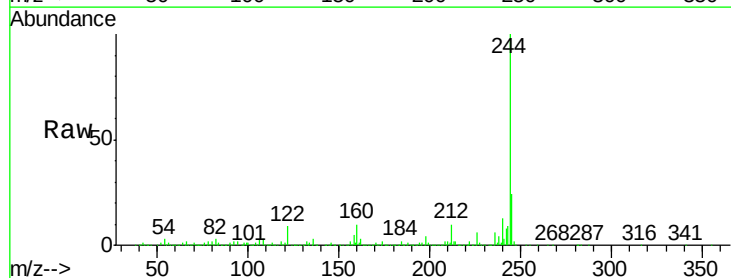
Tgt Ion:184 Resp: 41916

Ion Ratio Lower Upper

184 100

185 13.2 11.7 17.5

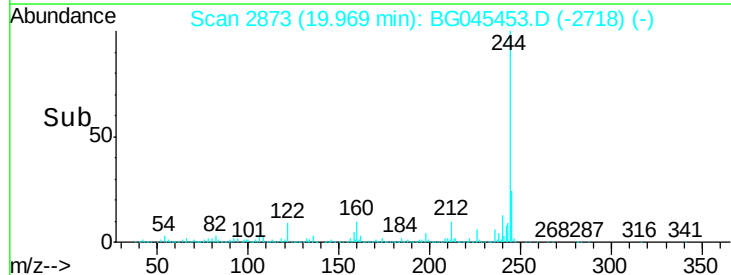
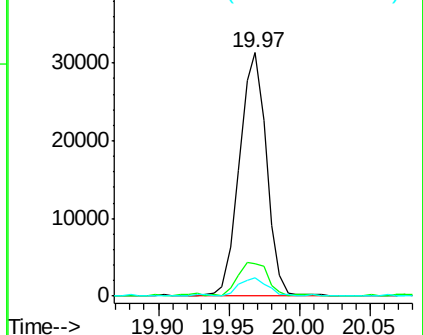
183 7.7 10.2 15.4#

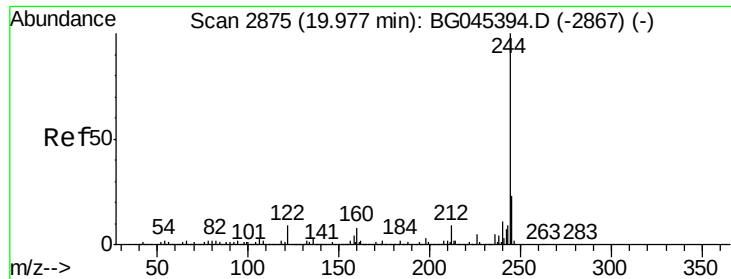


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#79

Terphenyl-d14

Concen: 111.938 ng

RT: 19.97 min Scan# 2873

Delta R.T. 0.00 min

Lab File: BG045453.D

Acq: 21 May 2020 23:43

Instrument :

BNA\_G

ClientSampleId :

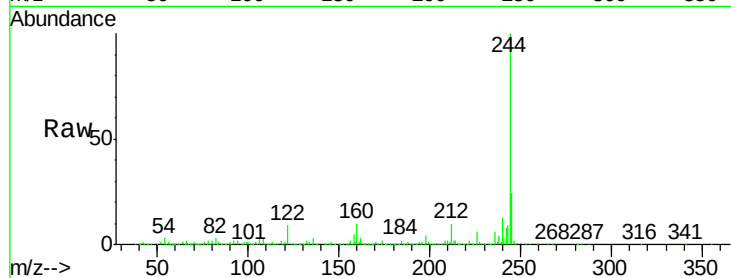
Tot Ion:244 Resp: 2137032

Ion Ratio Lower Upper

244 100

212 9.9 7.4 11.0

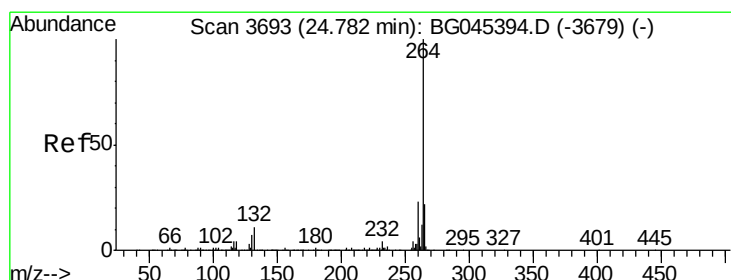
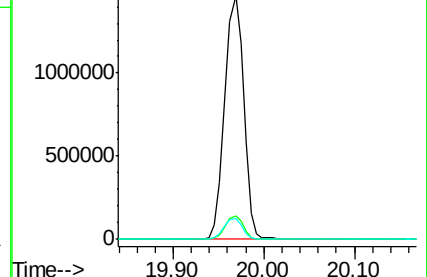
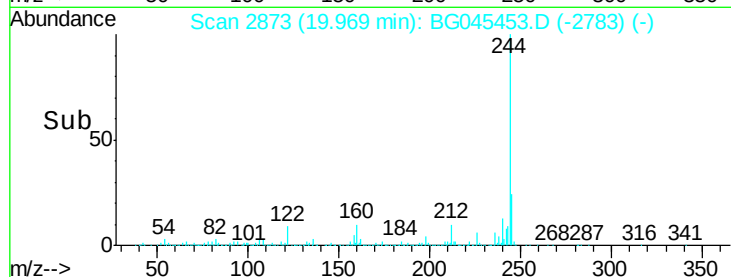
122 8.8 6.8 10.2



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 24.76 min Scan# 3689

Delta R.T. -0.00 min

Lab File: BG045453.D

Acq: 21 May 2020 23:43

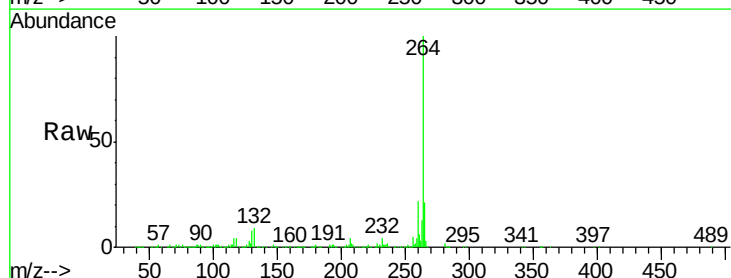
Tgt Ion:264 Resp: 479097

Ion Ratio Lower Upper

264 100

260 22.5 18.2 27.4

265 21.3 17.6 26.4



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

