

Data Path : Z:\HPCHEM1\BNA G\DATA\BG041118\  
 Data File : BG033766.D  
 Acq On : 12 Apr 2018 5:04  
 Operator : SJ/JU  
 Sample : J2321-04  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Apr 12 06:54:51 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 10 16:51:36 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.88  | 152  | 24783    | 20.00 | ng    | 0.02     |
| 21) Naphthalene-d8        | 11.75 | 136  | 115443   | 20.00 | ng    | 0.02     |
| 38) Acenaphthene-d10      | 15.48 | 164  | 88080    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 18.21 | 188  | 263434   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 22.55 | 240  | 288107   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 26.32 | 264  | 294964   | 20.00 | ng    | 0.01     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 6.30  | 112  | 71220    | 53.89  | ng    | 0.02     |
| 7) Phenol-d6                | 7.98  | 99   | 63131    | 27.80  | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 10.07 | 82   | 256358   | 102.03 | ng    | 0.02     |
| 41) 2,4,6-Tribromophenol    | 16.95 | 330  | 124145   | 94.24  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 14.11 | 172  | 585113   | 95.90  | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.73 | 244  | 1364836  | 101.31 | ng    | 0.00     |

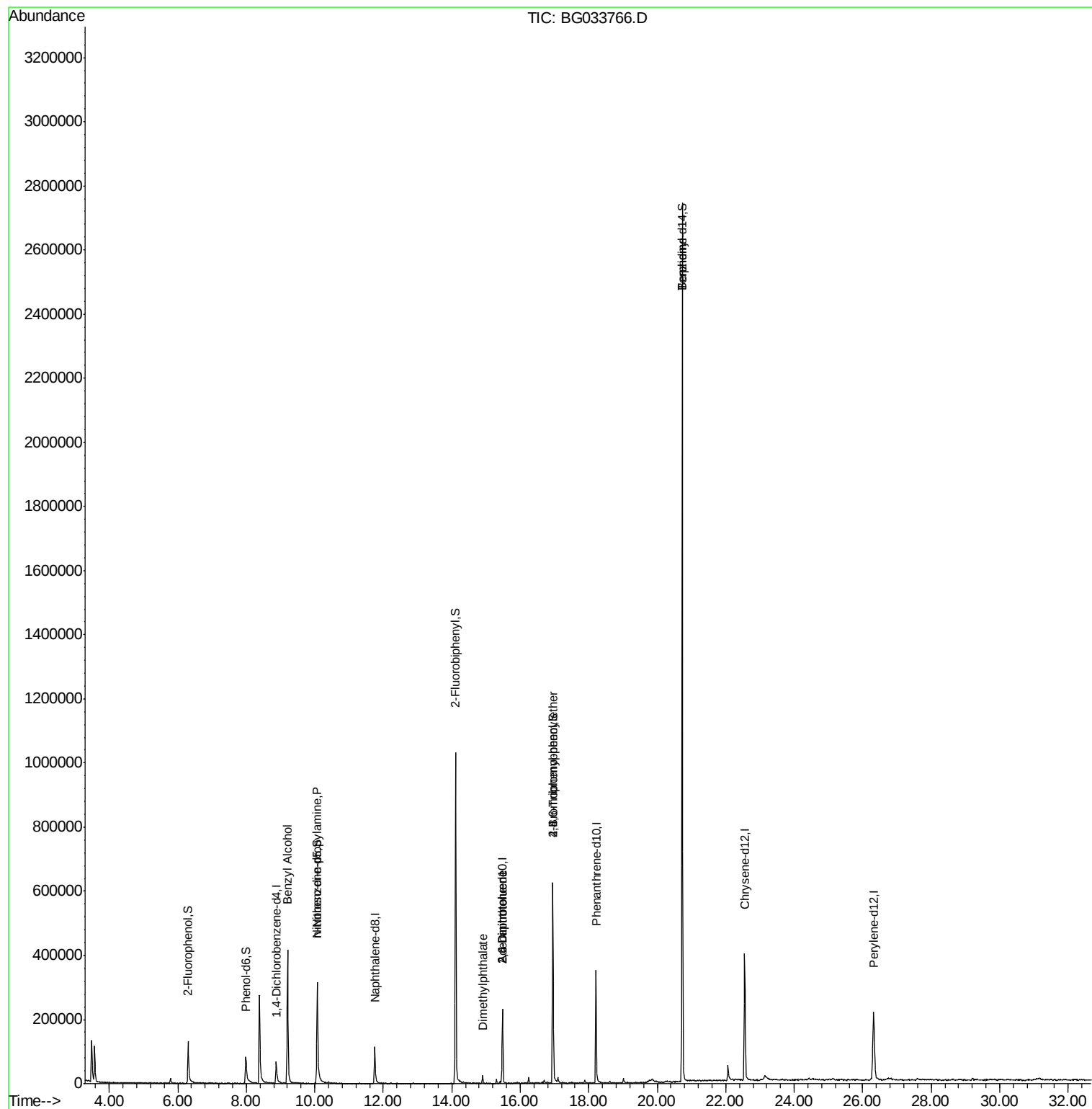
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 15) Benzyl Alcohol             | 9.20  | 79   | 4351     | 2.433  | ng    | # 49   |
| 19) n-Nitroso-di-n-propylamine | 10.07 | 70   | 33940    | 20.396 | ng    | # 71   |
| 49) Dimethylphthalate          | 14.90 | 163  | 17341    | 2.262  | ng    | # 92   |
| 50) 2,6-Dinitrotoluene         | 15.48 | 165  | 12057    | 7.693  | ng    | # 18   |
| 56) 2,4-Dinitrotoluene         | 15.48 | 165  | 12057    | 5.225  | ng    | # 16   |
| 66) 4-Bromophenyl-phenylether  | 16.96 | 248  | 9843     | 3.182  | ng    | # 1    |
| 76) Benizidine                 | 20.73 | 184  | 24205    | 3.098  | ng    | # 91   |

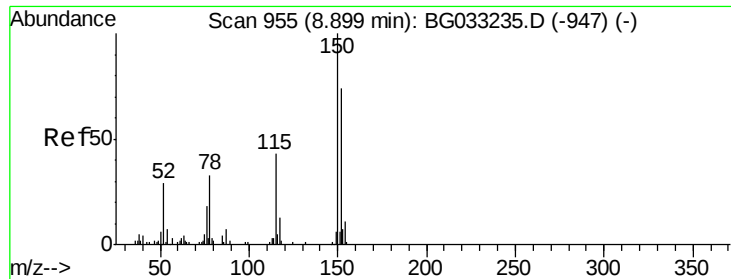
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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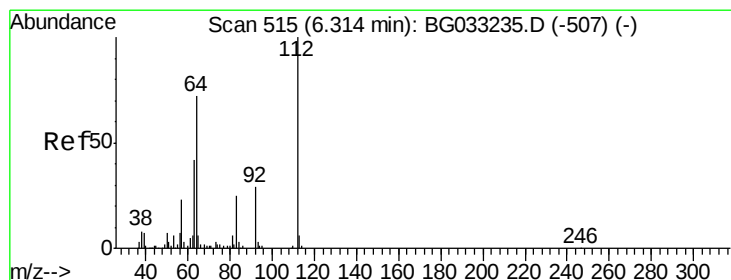
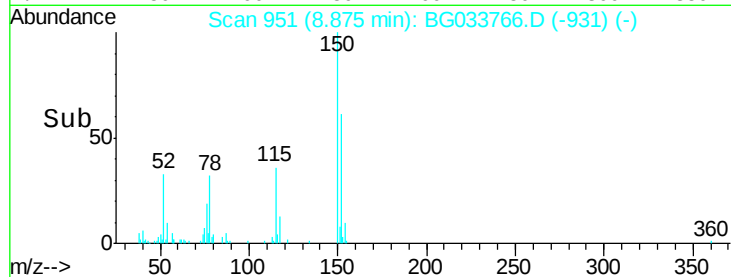
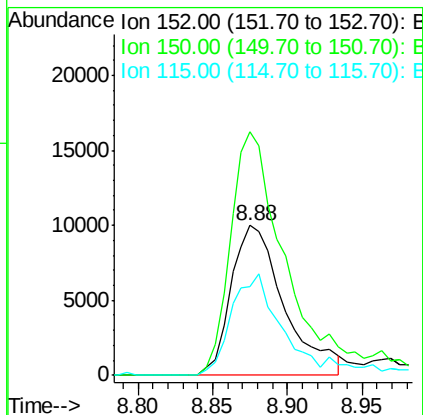
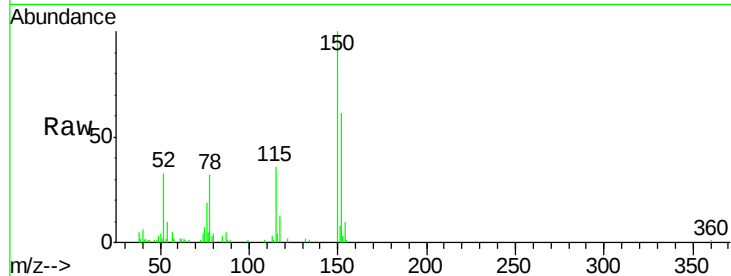


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.88 min Scan# 951  
Delta R.T. 0.02 min  
Lab File: BG033766.D  
Acq: 12 Apr 2018 5:04

Instrument :  
BNA\_G  
ClientSampleId :

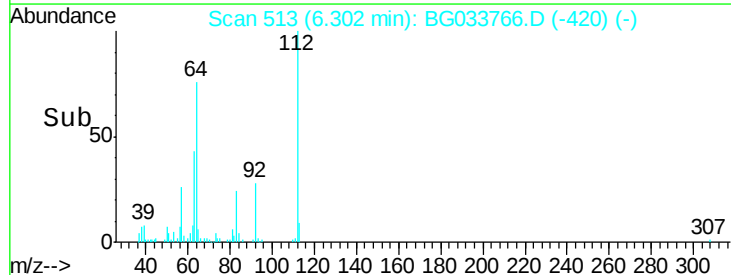
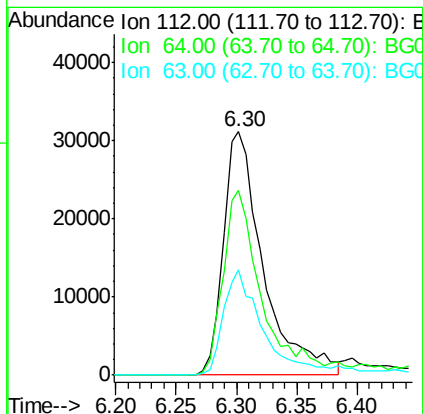
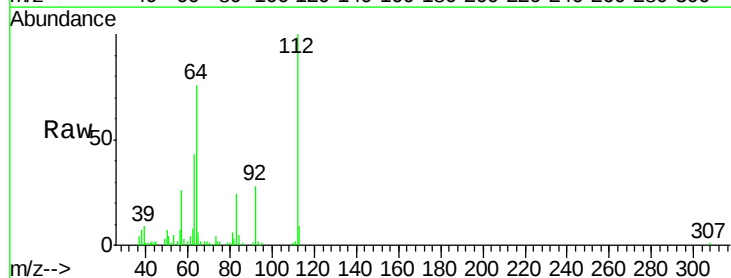
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 162.8 | 126.6 | 189.8 |
| 115     | 59.2  | 53.0  | 79.4  |



#5

2-Fluorophenol  
Concen: 53.886 ng  
RT: 6.30 min Scan# 513  
Delta R.T. 0.02 min  
Lab File: BG033766.D  
Acq: 12 Apr 2018 5:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 75.6  | 56.3  | 84.5  |
| 63      | 43.4  | 30.1  | 45.1  |





#7

Phenol-d6

Concen: 27.800 ng

RT: 7.98 min Scan# 799

Delta R.T. 0.01 min

Lab File: BG033766.D

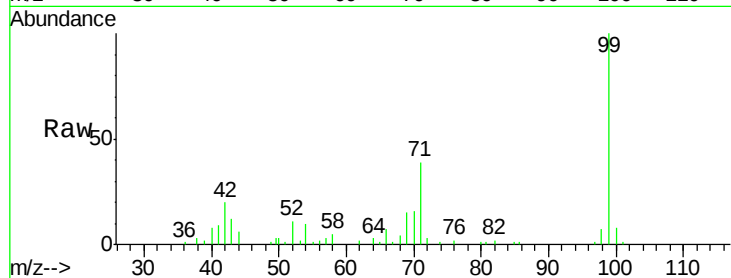
Acq: 12 Apr 2018 5:04

Instrument :

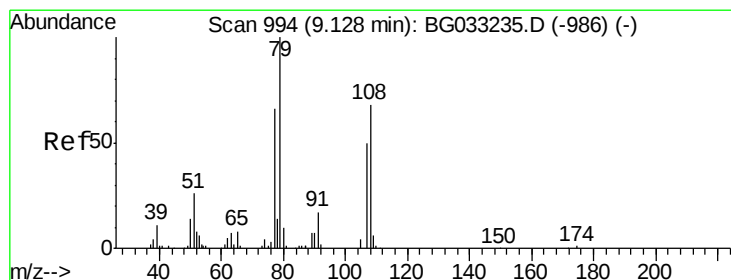
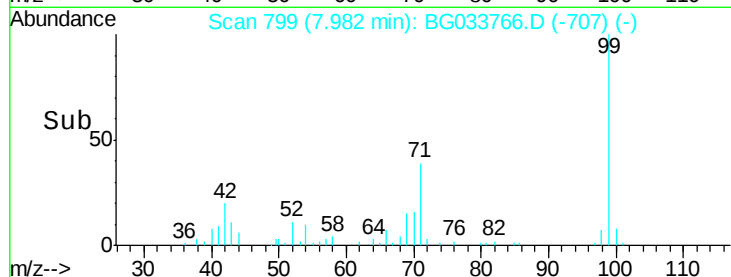
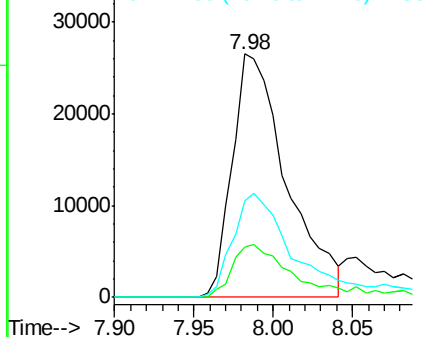
BNA\_G

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 63131 |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 20.4  | 14.1  | 21.1  |
| 71       | 39.5  | 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: 2.433 ng

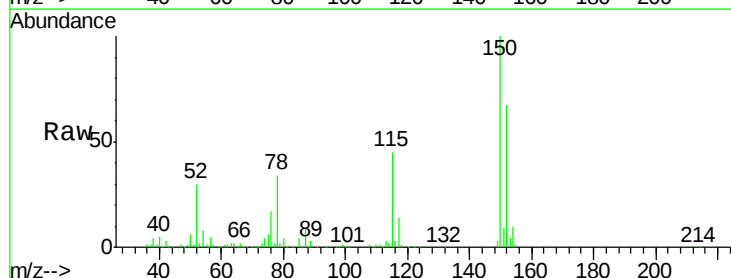
RT: 9.20 min Scan# 1007

Delta R.T. 0.11 min

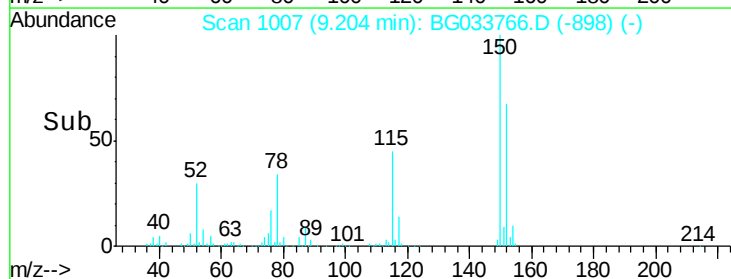
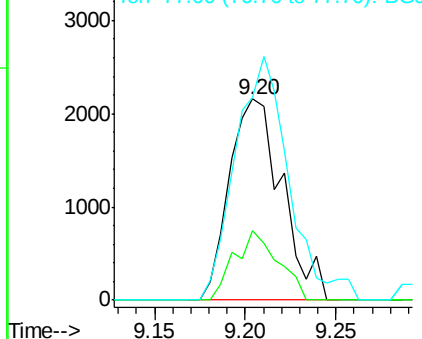
Lab File: BG033766.D

Acq: 12 Apr 2018 5:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 79    | Resp: | 4351  |
| Ion      | Ratio | Lower | Upper |
| 79       | 100   |       |       |
| 108      | 34.3  | 57.2  | 85.8# |
| 77       | 100.9 | 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

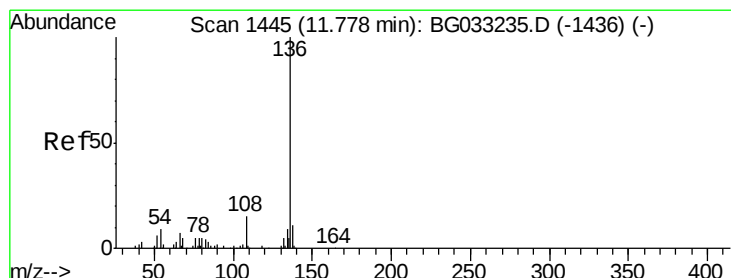
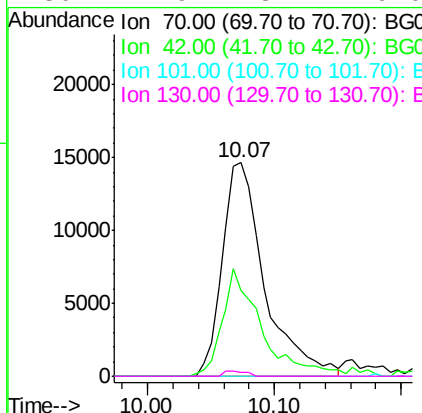
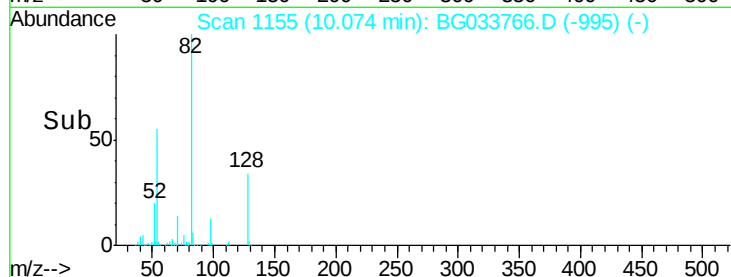
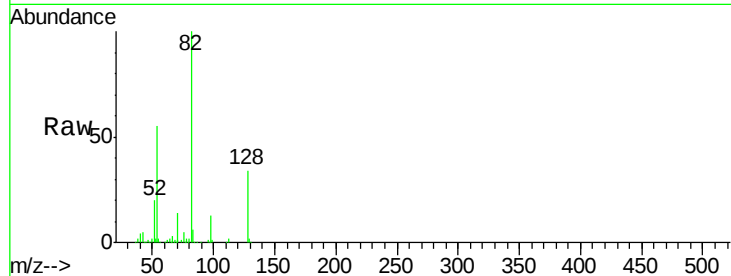




#19  
n-Nitroso-di-n-propylamine  
Concen: 20.396 ng  
RT: 10.07 min Scan# 1155  
Delta R.T. 0.41 min  
Lab File: BG033766.D  
Acq: 12 Apr 2018 5:04

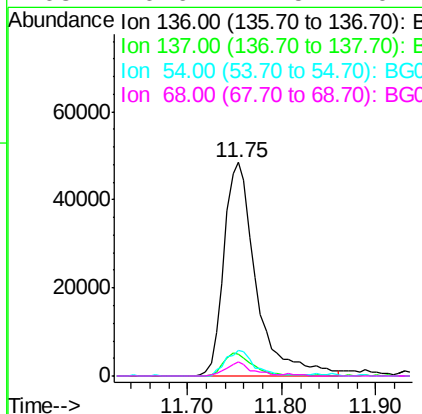
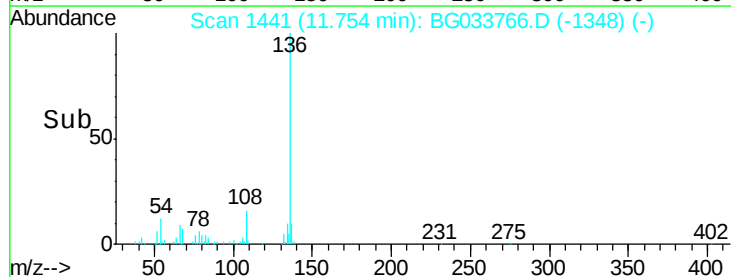
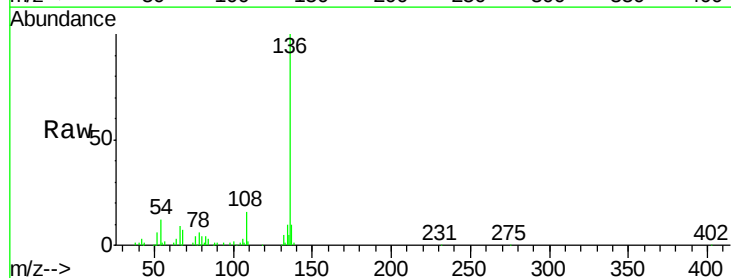
Instrument :  
BNA\_G  
ClientSampleId :

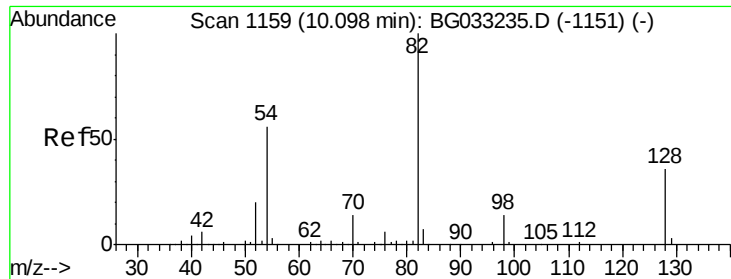
Tot Ion: 70 Resp: 33940  
Ion Ratio Lower Upper  
70 100  
42 40.1 49.1 73.7#  
101 0.0 8.5 12.7#  
130 1.9 13.4 20.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.75 min Scan# 1441  
Delta R.T. 0.02 min  
Lab File: BG033766.D  
Acq: 12 Apr 2018 5:04

Tgt Ion: 136 Resp: 115443  
Ion Ratio Lower Upper  
136 100  
137 10.2 9.2 13.8  
54 12.0 10.3 15.5  
68 6.6 4.5 6.7





#23

Nitrobenzene-d5

Concen: 102.025 ng

RT: 10.07 min Scan# 1155

Delta R.T. 0.02 min

Lab File: BG033766.D

Acq: 12 Apr 2018 5:04

Instrument :

BNA\_G

ClientSampleId :

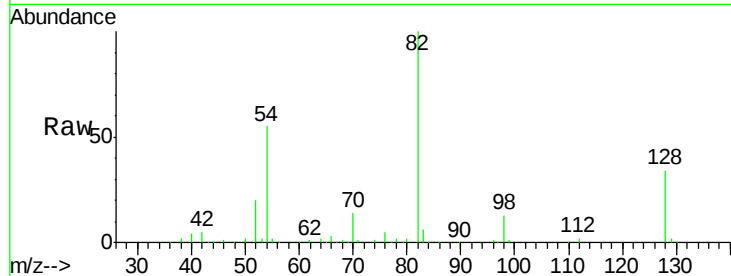
Tot Ion: 82 Resp: 256358

Ion Ratio Lower Upper

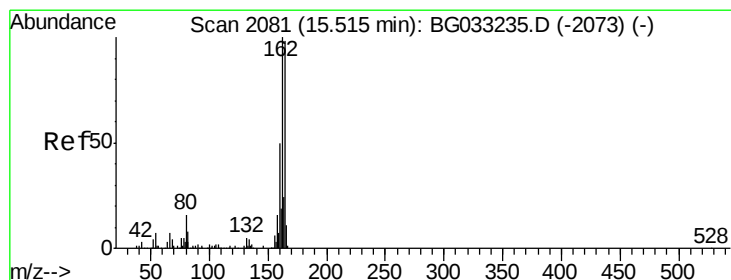
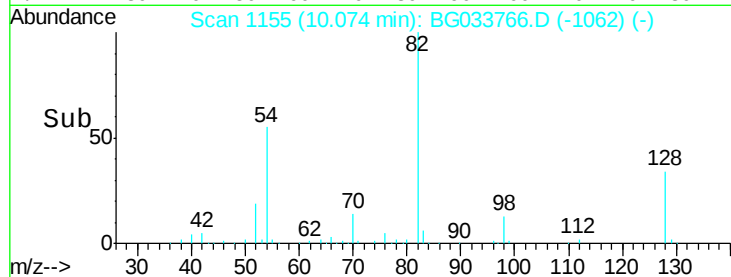
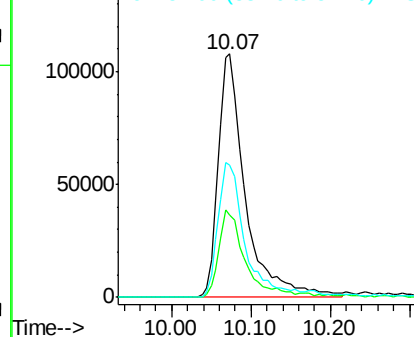
82 100

128 33.8 29.7 44.5

54 54.5 43.1 64.7



Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 15.48 min Scan# 2075

Delta R.T. 0.01 min

Lab File: BG033766.D

Acq: 12 Apr 2018 5:04

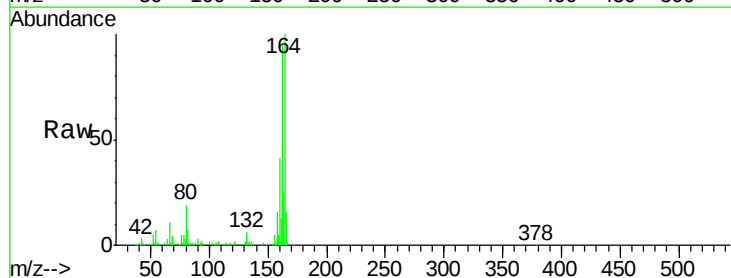
Tgt Ion: 164 Resp: 88080

Ion Ratio Lower Upper

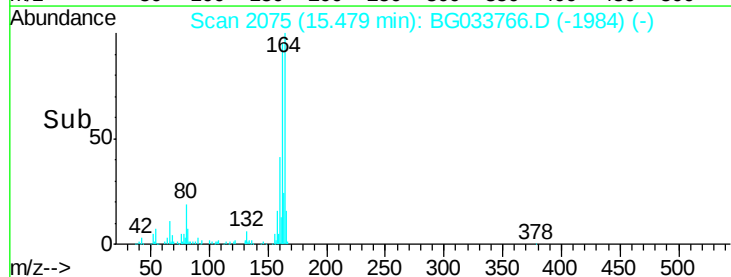
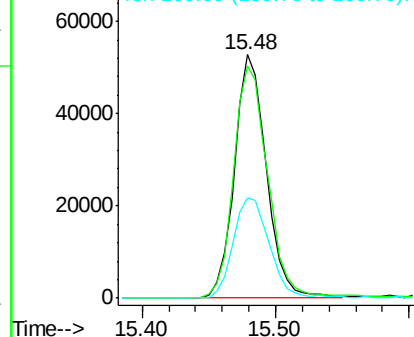
164 100

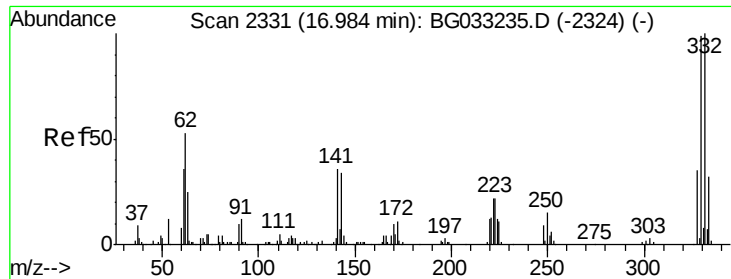
162 95.1 78.8 118.2

160 41.1 35.4 53.0



Abundance Ion 164.00 (163.70 to 164.70): BGC  
Ion 162.00 (161.70 to 162.70): BGC  
Ion 160.00 (159.70 to 160.70): BGC

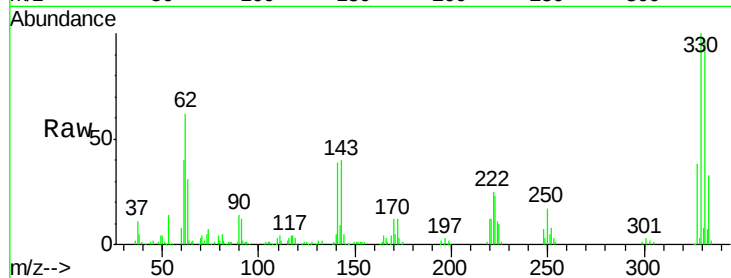




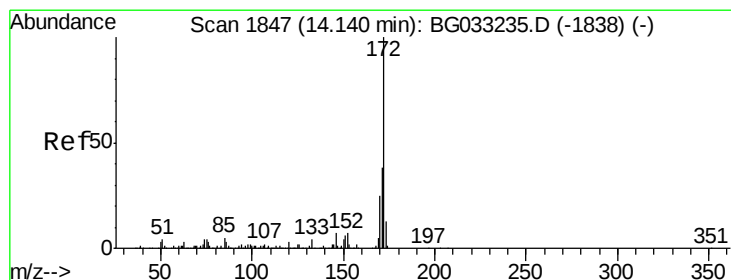
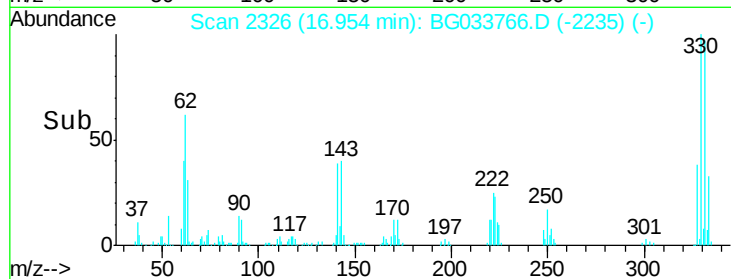
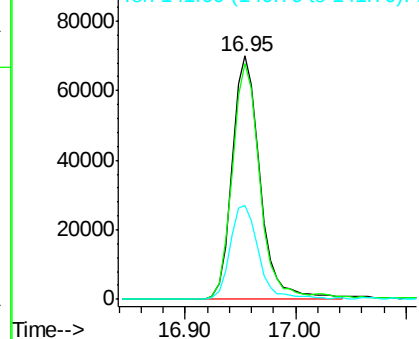
#41  
 2,4,6-Tribromophenol  
 Concen: 94.239 ng  
 RT: 16.95 min Scan# 2326  
 Delta R.T. 0.01 min  
 Lab File: BG033766.D  
 Acq: 12 Apr 2018 5:04

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.7  | 77.0  | 115.6 |
| 141     | 39.6  | 25.2  | 37.8# |

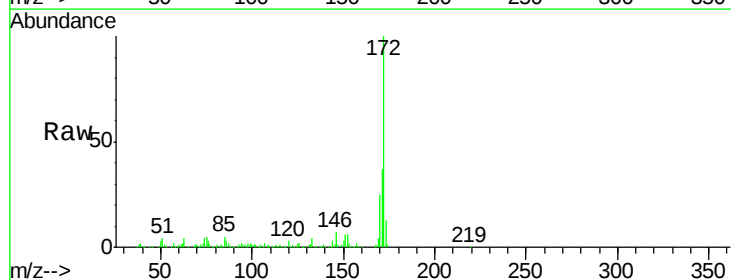


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

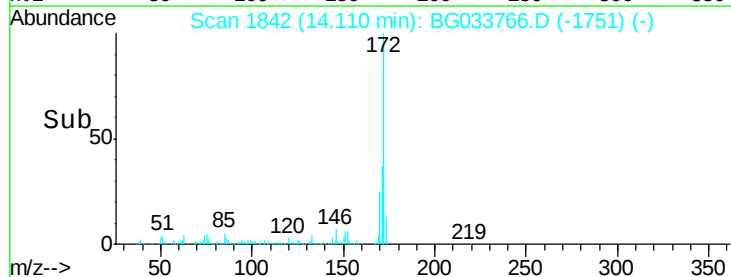
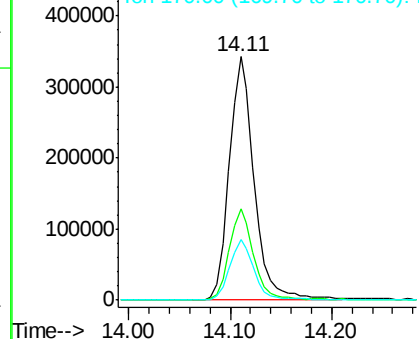


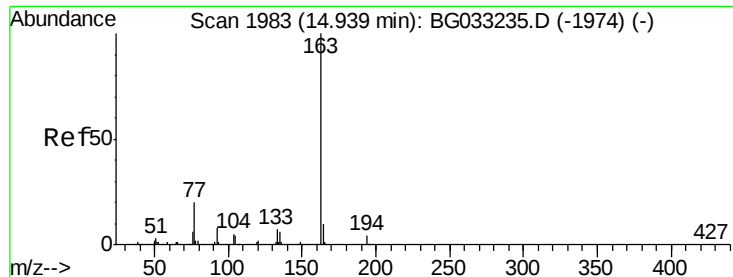
#44  
 2-Fluorobiphenyl  
 Concen: 95.900 ng  
 RT: 14.11 min Scan# 1842  
 Delta R.T. 0.01 min  
 Lab File: BG033766.D  
 Acq: 12 Apr 2018 5:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.5  | 30.0  | 45.0  |
| 170     | 24.7  | 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





#49

Dimethylphthalate

Concen: 2.262 ng

RT: 14.90 min Scan# 1977

Delta R.T. 0.01 min

Lab File: BG033766.D

Acq: 12 Apr 2018 5:04

Instrument :

BNA\_G

ClientSampleId :

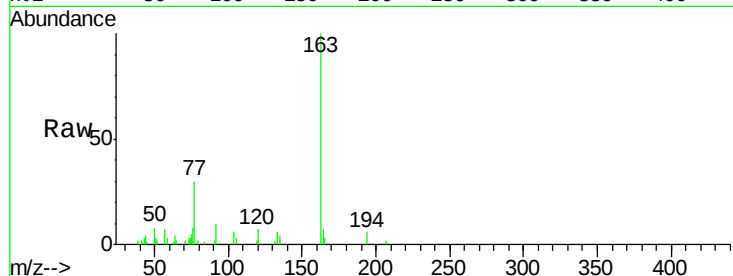
Tot Ion:163 Resp: 17341

Ion Ratio Lower Upper

163 100

194 5.6 3.4 5.2#

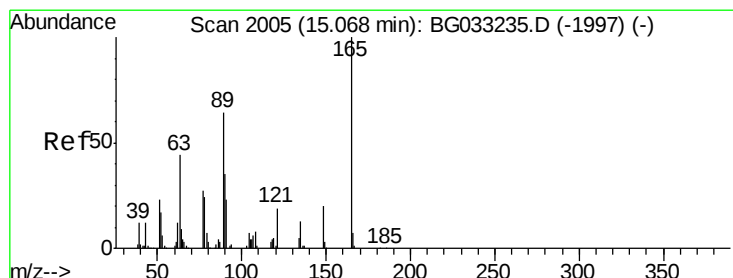
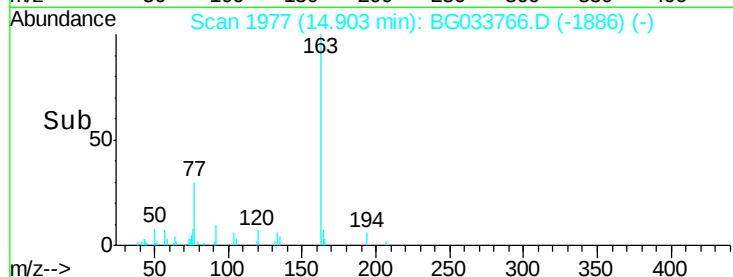
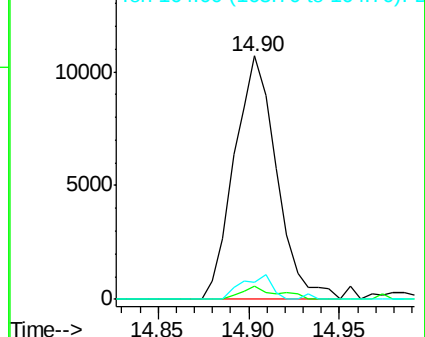
164 6.8 8.2 12.4#



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#50

2,6-Dinitrotoluene

Concen: 7.693 ng

RT: 15.48 min Scan# 2075

Delta R.T. 0.45 min

Lab File: BG033766.D

Acq: 12 Apr 2018 5:04

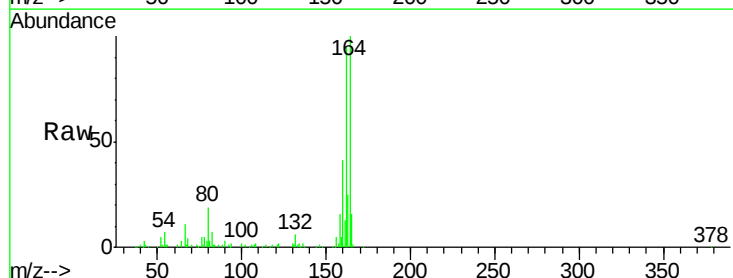
Tgt Ion:165 Resp: 12057

Ion Ratio Lower Upper

165 100

63 0.0 52.7 79.1#

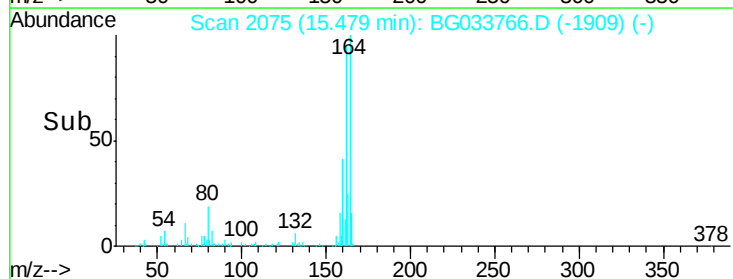
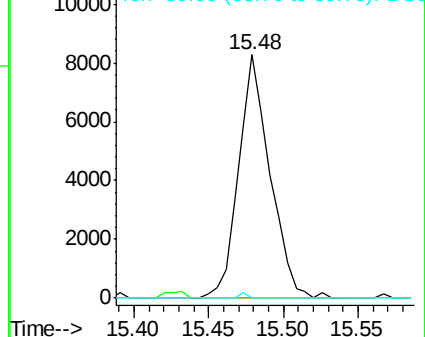
89 0.0 49.2 73.8#

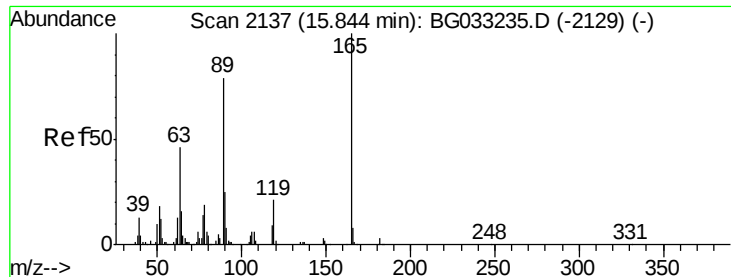


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

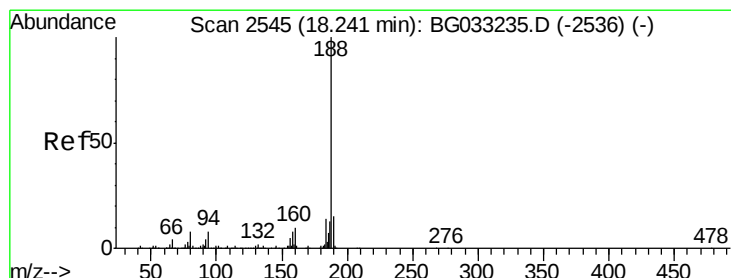
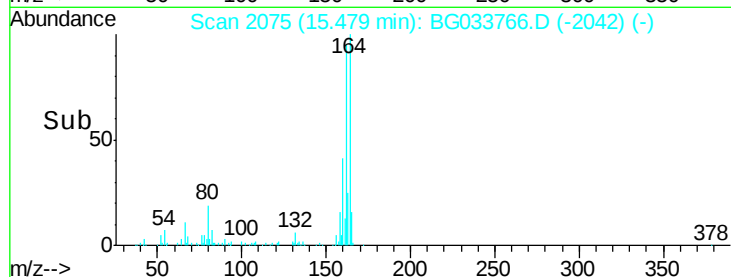
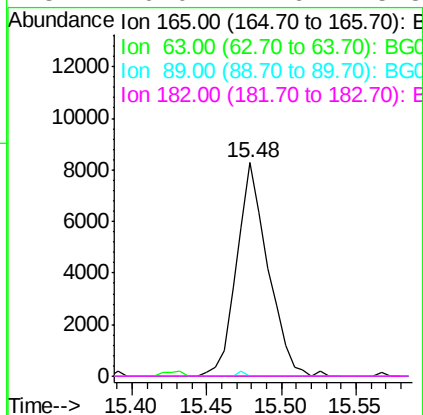
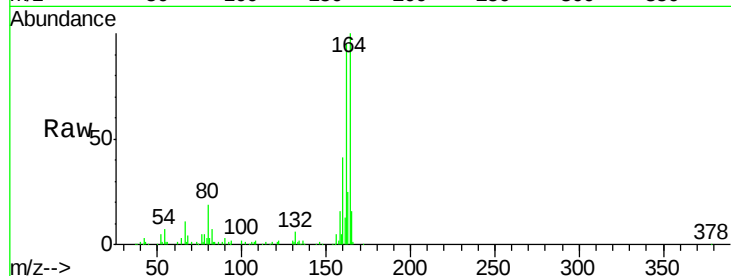




#56  
 2,4-Dinitrotoluene  
 Concen: 5.225 ng  
 RT: 15.48 min Scan# 2075  
 Delta R.T. -0.33 min  
 Lab File: BG033766.D  
 Acq: 12 Apr 2018 5:04

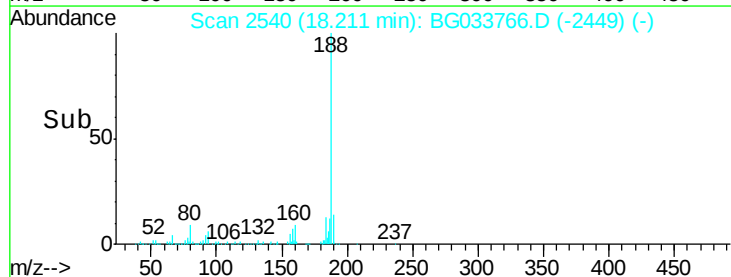
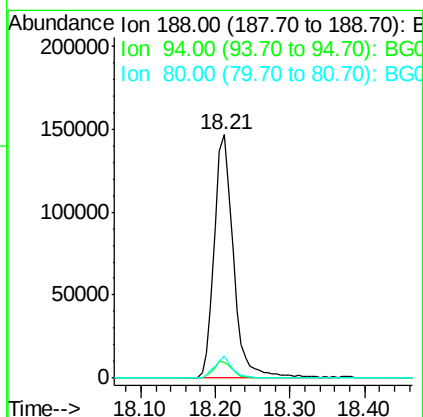
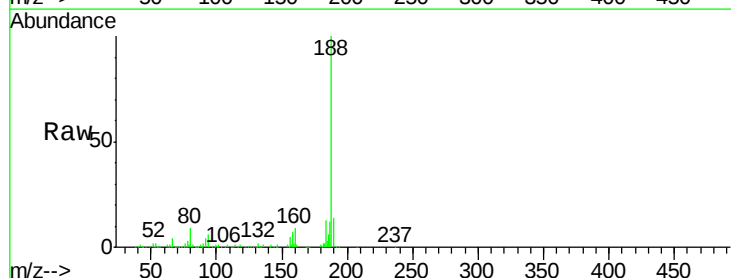
Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 165     | 100   |       |        |
| 63      | 0.0   | 42.0  | 63.0#  |
| 89      | 0.0   | 66.9  | 100.3# |
| 182     | 0.0   | 2.6   | 3.8#   |



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 18.21 min Scan# 2540  
 Delta R.T. 0.01 min  
 Lab File: BG033766.D  
 Acq: 12 Apr 2018 5:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 6.3   | 6.9   | 10.3# |
| 80      | 9.1   | 7.7   | 11.5  |

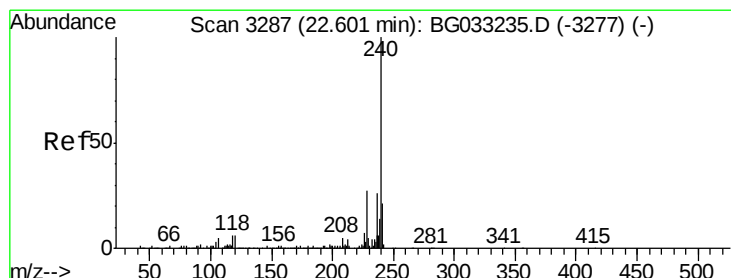
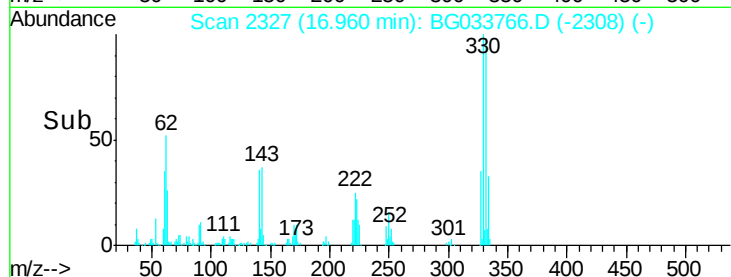
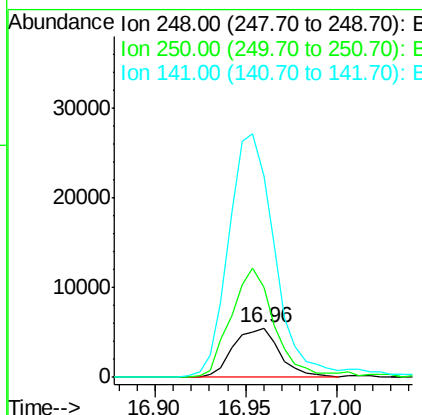
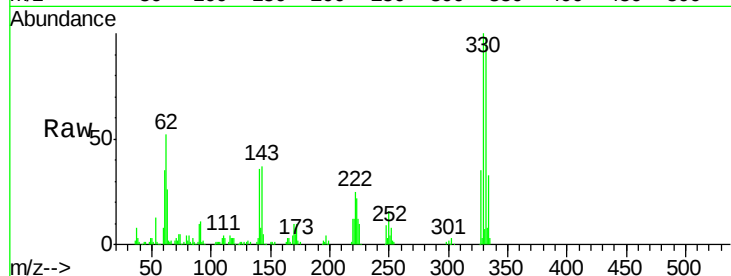




#66  
4-Bromophenyl-phenylether  
Concen: 3.182 ng  
RT: 16.96 min Scan# 2327  
Delta R.T. -0.42 min  
Lab File: BG033766.D  
Acq: 12 Apr 2018 5:04

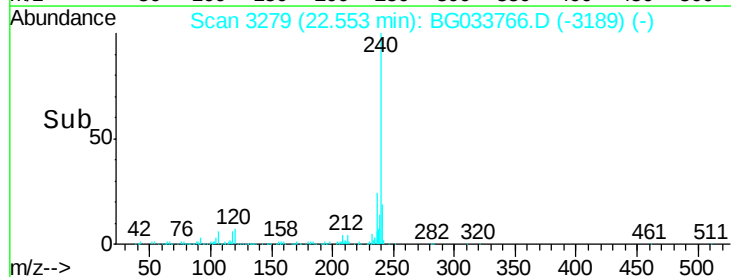
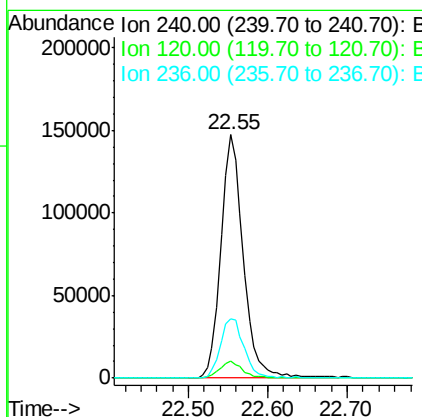
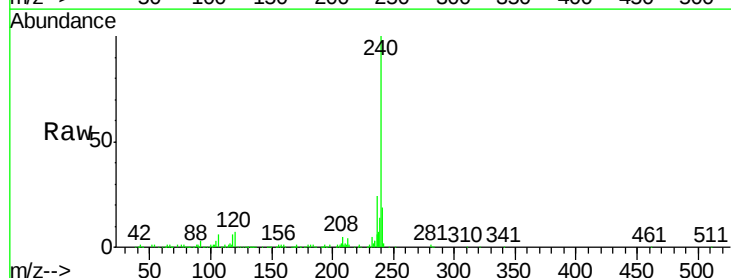
Instrument :  
BNA\_G  
ClientSampleId :

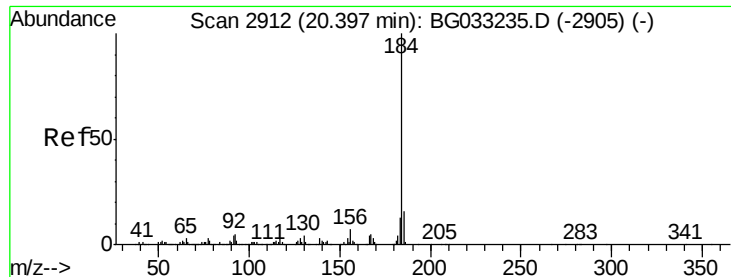
Tot Ion:248 Resp: 9843  
Ion Ratio Lower Upper  
248 100  
250 182.3 77.1 115.7#  
141 410.4 50.8 76.2#



#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 22.55 min Scan# 3279  
Delta R.T. 0.00 min  
Lab File: BG033766.D  
Acq: 12 Apr 2018 5:04

Tgt Ion:240 Resp: 288107  
Ion Ratio Lower Upper  
240 100  
120 7.0 6.8 10.2  
236 24.2 20.9 31.3





#76

Benzidine

Concen: 3.098 ng

RT: 20.73 min Scan# 2969

Delta R.T. 0.37 min

Lab File: BG033766.D

Acq: 12 Apr 2018 5:04

Instrument :

BNA\_G

ClientSampleId :

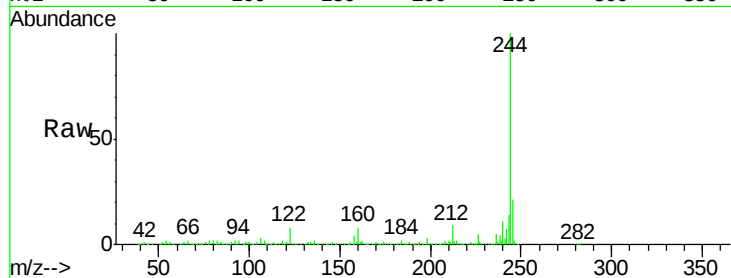
Tot Ion:184 Resp: 24205

Ion Ratio Lower Upper

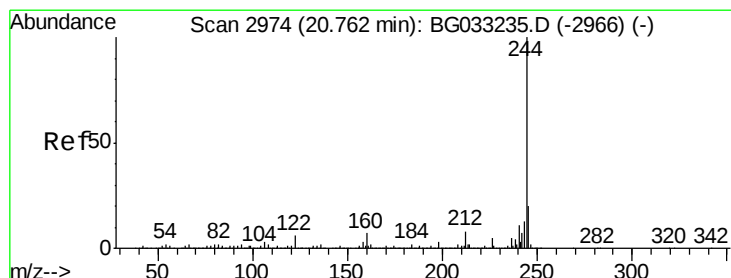
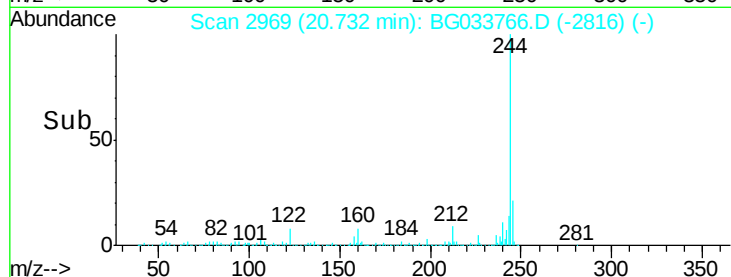
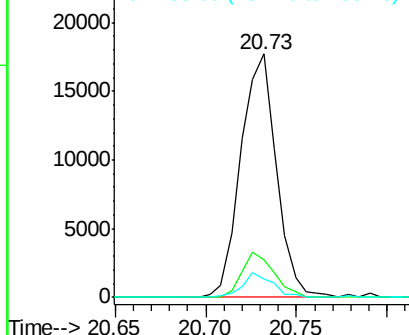
184 100

185 15.4 11.1 16.7

183 7.8 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: 101.311 ng

RT: 20.73 min Scan# 2969

Delta R.T. 0.01 min

Lab File: BG033766.D

Acq: 12 Apr 2018 5:04

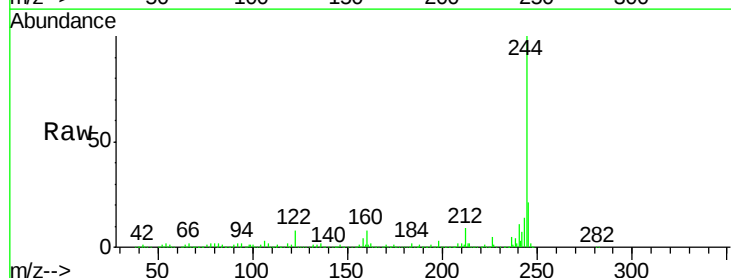
Tgt Ion:244 Resp: 1364836

Ion Ratio Lower Upper

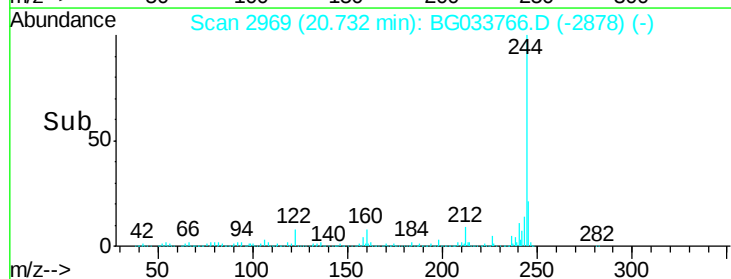
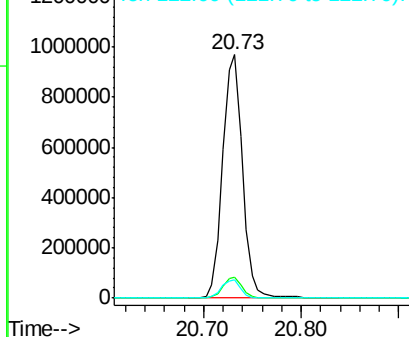
244 100

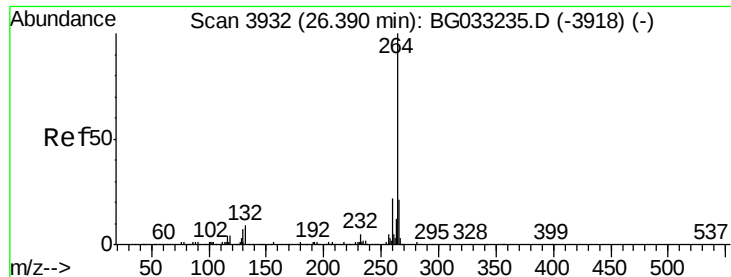
212 8.6 5.8 8.8

122 7.6 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

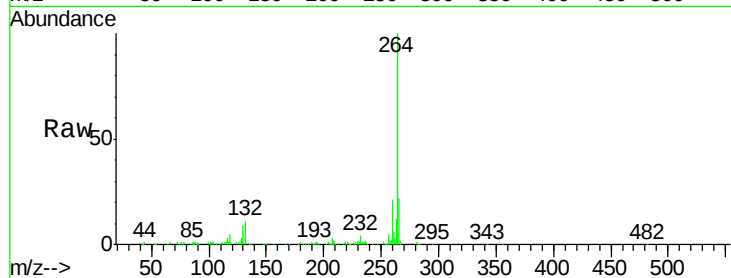




#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 26.32 min Scan# 3920  
 Delta R.T. 0.01 min  
 Lab File: BG033766.D  
 Acq: 12 Apr 2018 5:04

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 20.8  | 17.4  | 26.0  |
| 265     | 22.3  | 17.7  | 26.5  |



Abundance Ion 264.00 (263.70 to 264.70): E  
 Ion 260.00 (259.70 to 260.70): E  
 Ion 265.00 (264.70 to 265.70): E

