

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111218\  
 Data File : BG037940.D  
 Acq On : 12 Nov 2018 12:02  
 Operator : JU/SJ  
 Sample : J5860-22DL 20X  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Nov 12 13:01:12 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG101818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 18 14:06:42 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.09  | 152  | 51880    | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 10.91 | 136  | 225095   | 20.00 | ng    | -0.02    |
| 39) Acenaphthene-d10      | 14.72 | 164  | 151420   | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10      | 17.47 | 188  | 329610   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12          | 21.76 | 240  | 292719   | 20.00 | ng    | -0.02    |
| 87) Perylene-d12          | 25.08 | 264  | 224410   | 20.00 | ng    | -0.03    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 5) 2-Fluorophenol           | 5.63  | 112  | 22145    | 7.14 | ng    | -0.01    |
| 7) Phenol-d6                | 7.24  | 99   | 35015    | 7.46 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 9.26  | 82   | 19038    | 4.74 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 16.22 | 330  | 5897     | 3.57 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 13.34 | 172  | 48972    | 4.88 | ng    | -0.03    |
| 79) Terphenyl-d14           | 20.07 | 244  | 72151    | 5.27 | ng    | -0.02    |

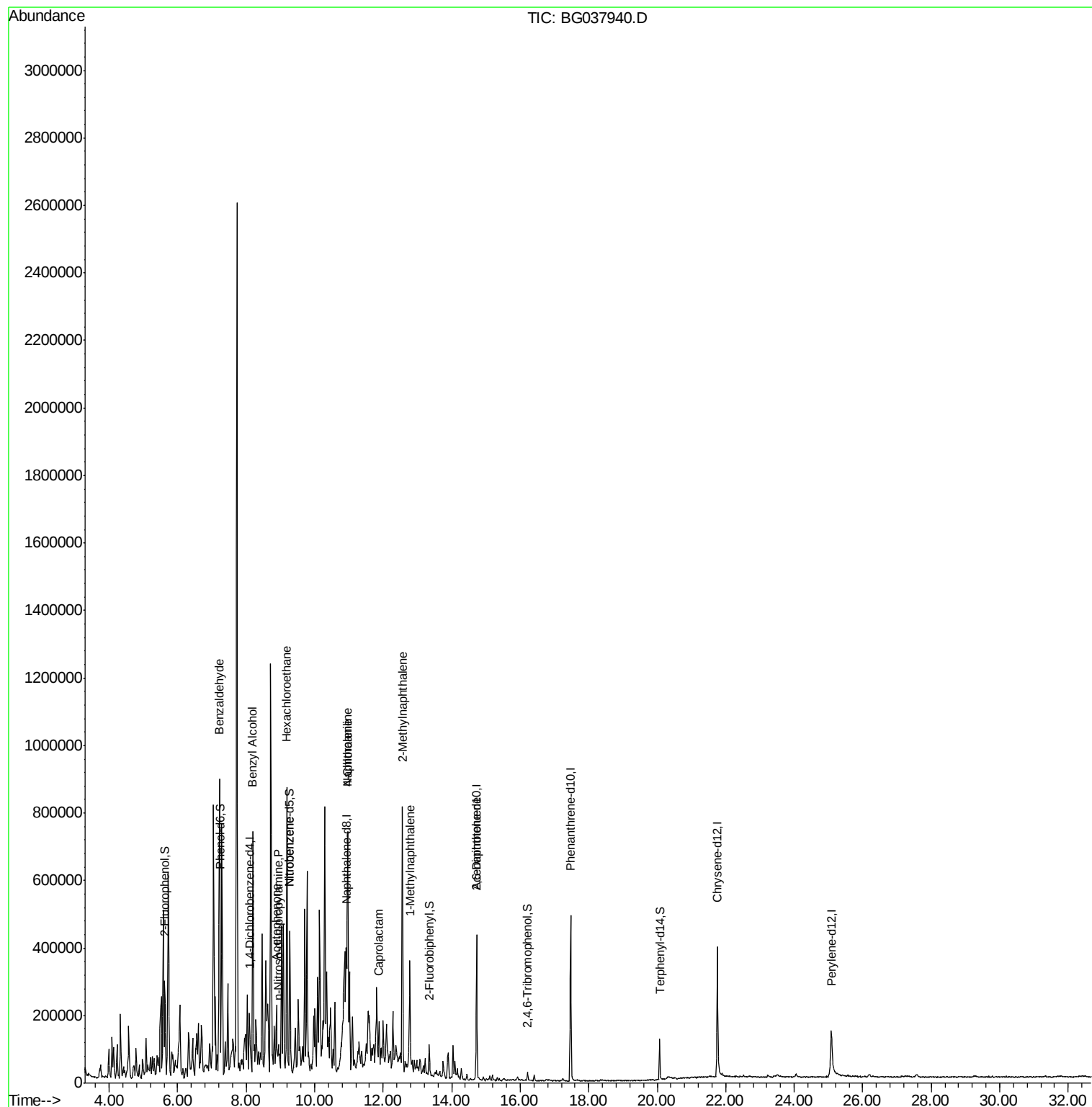
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 9) Benzaldehyde                | 7.22  | 77   | 52994    | 18.054 | ng    | # 1    |
| 15) Benzyl Alcohol             | 8.20  | 79   | 35843    | 10.338 | ng    | # 5    |
| 18) Hexachloroethane           | 9.19  | 117  | 102020   | 72.388 | ng    | # 1    |
| 19) n-Nitroso-di-n-propylamine | 8.94  | 70   | 9754     | 3.019  | ng    | # 49   |
| 22) Acetophenone               | 8.88  | 105  | 161288   | 28.570 | ng    | # 54   |
| 24) Nitrobenzene               | 9.28  | 77   | 12986    | 3.111  | ng    | # 1    |
| 31) Naphthalene                | 10.96 | 128  | 494967   | 44.769 | ng    | # 99   |
| 33) 4-Chloroaniline            | 10.96 | 127  | 69756    | 13.428 | ng    | # 44   |
| 35) Caprolactam                | 11.89 | 113  | 4769     | 3.181  | ng    | # 1    |
| 37) 2-Methylnaphthalene        | 12.56 | 142  | 388296   | 48.179 | ng    | # 98   |
| 38) 1-Methylnaphthalene        | 12.78 | 142  | 164541   | 21.023 | ng    | # 97   |
| 51) 2,6-Dinitrotoluene         | 14.72 | 165  | 21546    | 8.314  | ng    | # 25   |

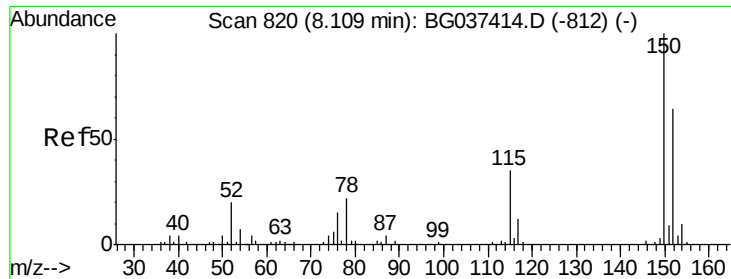
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111218\  
Data File : BG037940.D  
Acq On : 12 Nov 2018 12:02  
Operator : JU/SJ  
Sample : J5860-22DL 20X  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Nov 12 13:01:12 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG101818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Oct 18 14:06:42 2018  
Response via : Initial Calibration

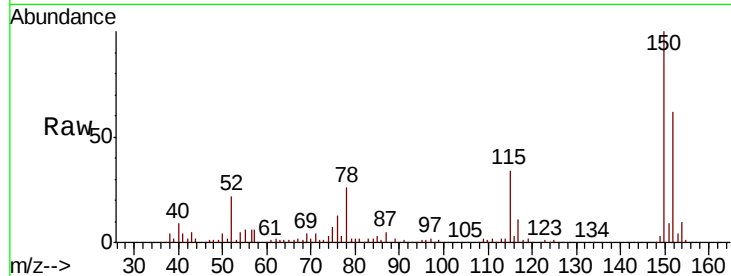




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.09 min Scan# 817  
 Delta R.T. -0.02 min  
 Lab File: BG037940.D  
 Acq: 12 Nov 2018 12:02

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 161.3 | 126.0 | 189.0 |
| 115     | 54.5  | 45.5  | 68.3  |

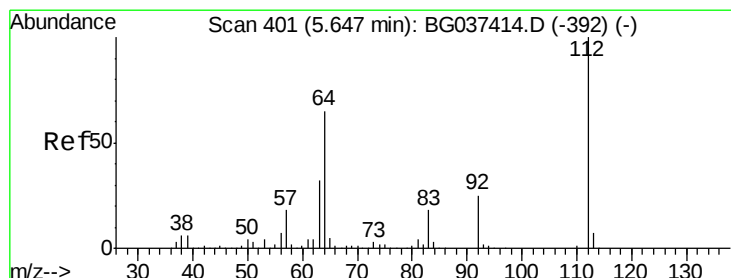
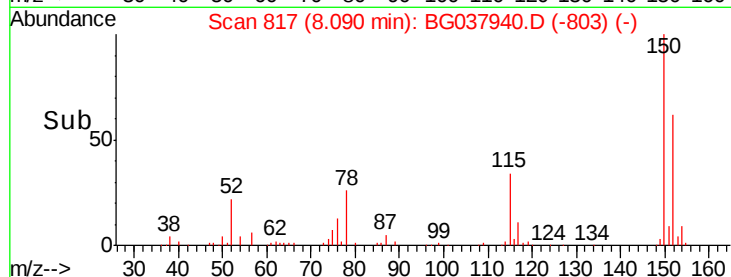
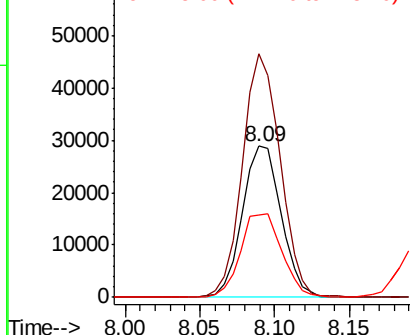


Abundance

Ion 152.00 (151.70 to 152.70): E

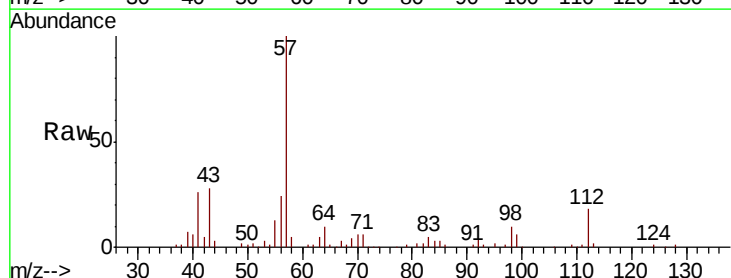
Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5  
 2-Fluorophenol  
 Concen: 7.136 ng  
 RT: 5.63 min Scan# 399  
 Delta R.T. -0.01 min  
 Lab File: BG037940.D  
 Acq: 12 Nov 2018 12:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.3  | 53.1  | 79.7  |
| 63      | 28.4  | 27.3  | 40.9  |

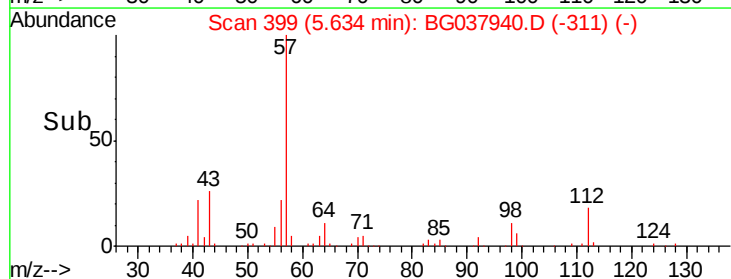
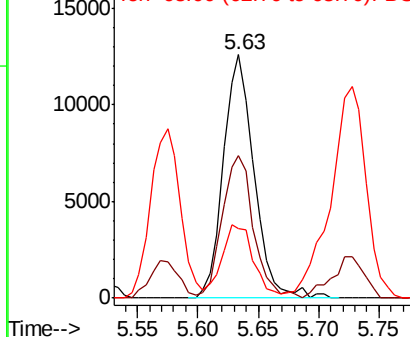


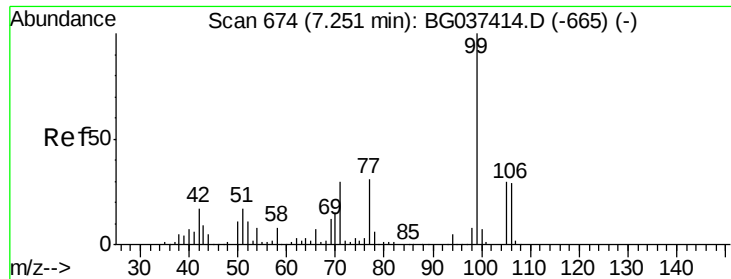
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG

Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 7.462 ng

RT: 7.24 min Scan# 672

Delta R.T. -0.01 min

Lab File: BG037940.D

Acq: 12 Nov 2018 12:02

Instrument :

BNA\_G

ClientSampled :

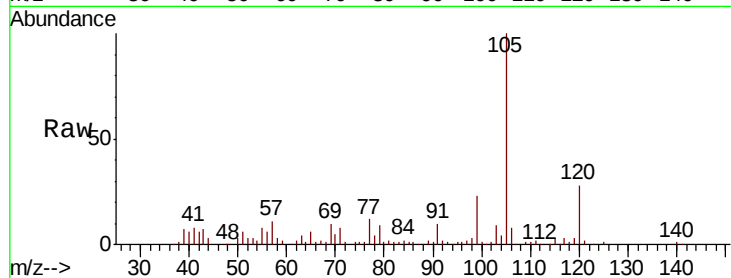
Tot Ion: 99 Resp: 35015

Ion Ratio Lower Upper

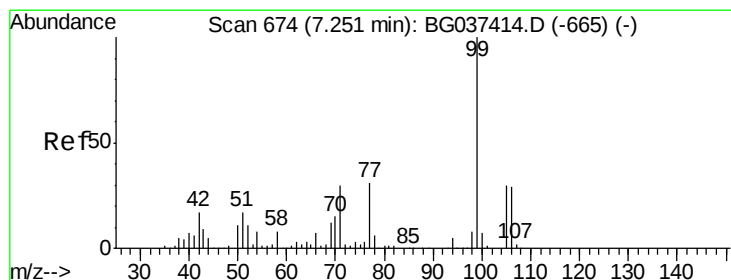
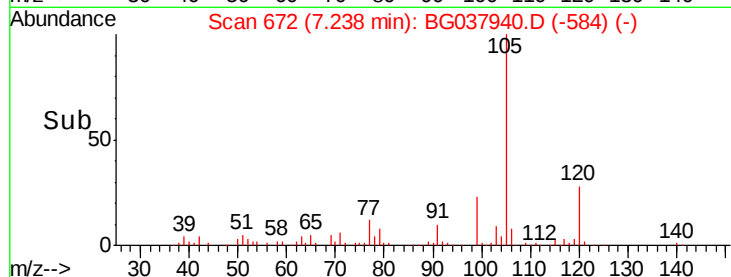
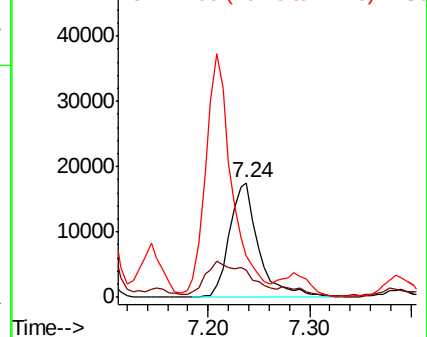
99 100

42 23.9 15.0 22.4#

71 35.8 25.5 38.3



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



#9

Benzaldehyde

Concen: 18.054 ng

RT: 7.22 min Scan# 669

Delta R.T. -0.03 min

Lab File: BG037940.D

Acq: 12 Nov 2018 12:02

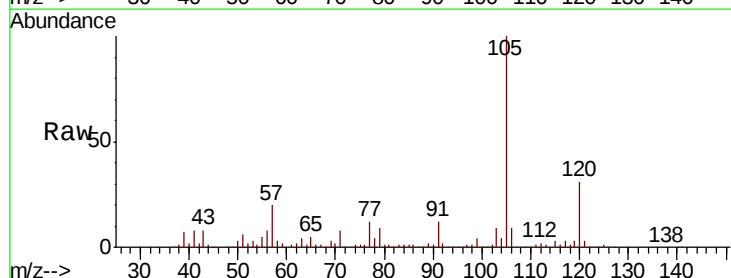
Tgt Ion: 77 Resp: 52994

Ion Ratio Lower Upper

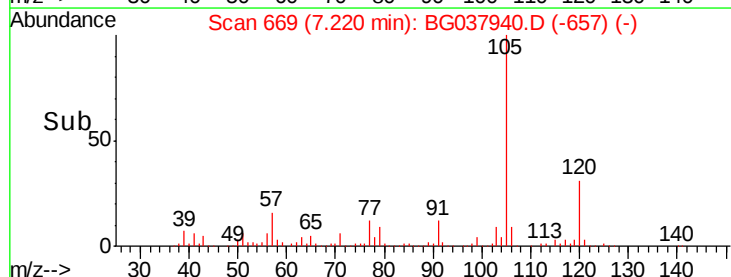
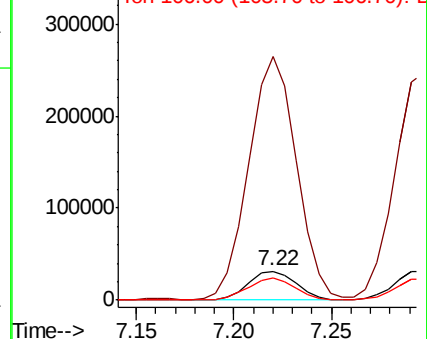
77 100

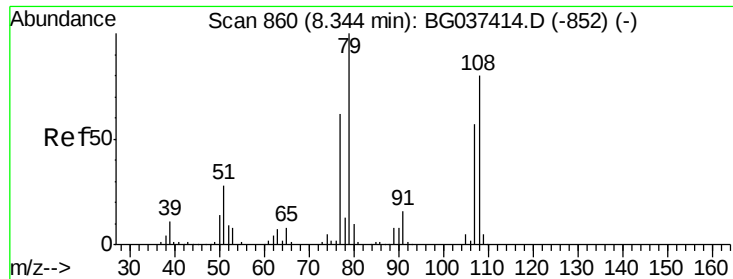
105 843.7 72.6 112.6#

106 75.9 71.3 111.3



Abundance Ion 77.00 (76.70 to 77.70): BGC  
Ion 105.00 (104.70 to 105.70): BGC  
Ion 106.00 (105.70 to 106.70): BGC





#15

Benzyl Alcohol

Concen: 10.338 ng

RT: 8.20 min Scan# 835

Delta R.T. -0.15 min

Lab File: BG037940.D

Acq: 12 Nov 2018 12:02

Instrument :

BNA\_G

ClientSampleId :

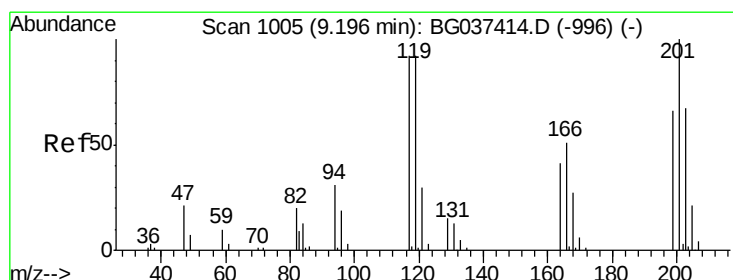
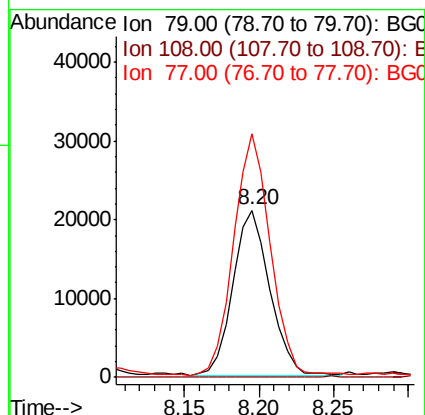
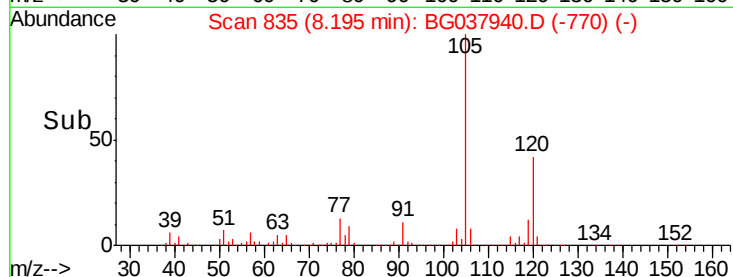
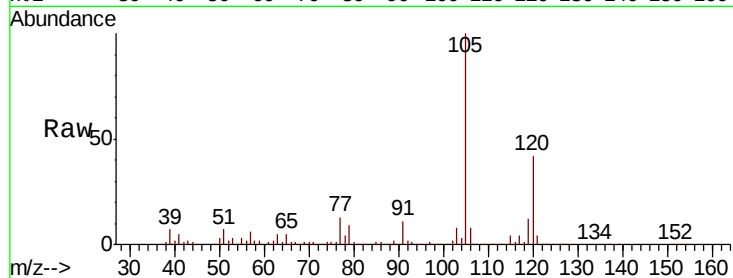
Tot Ion: 79 Resp: 35843

Ion Ratio Lower Upper

79 100

108 0.0 65.8 98.8#

77 145.7 52.9 79.3#



#18

Hexachloroethane

Concen: 72.388 ng

RT: 9.19 min Scan# 1005

Delta R.T. -0.00 min

Lab File: BG037940.D

Acq: 12 Nov 2018 12:02

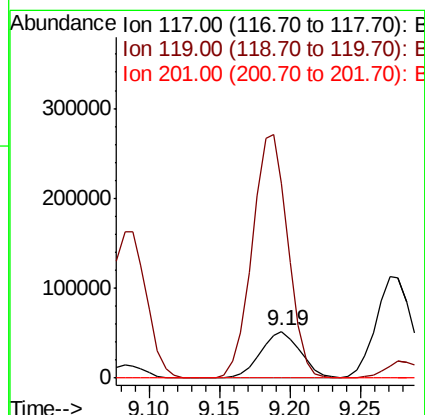
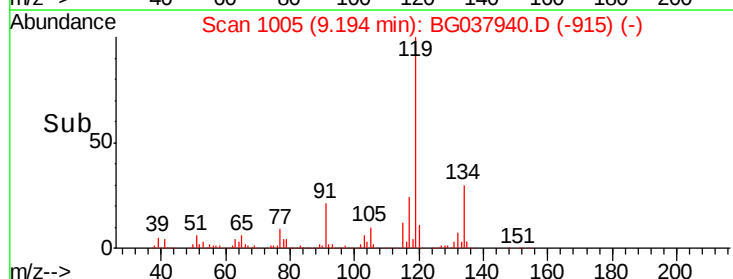
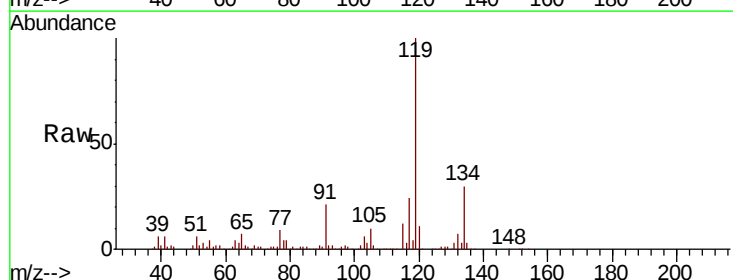
Tgt Ion: 117 Resp: 102020

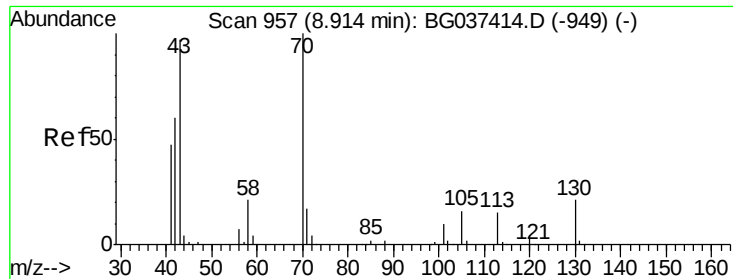
Ion Ratio Lower Upper

117 100

119 417.1 74.6 111.8#

201 0.0 80.8 121.2#

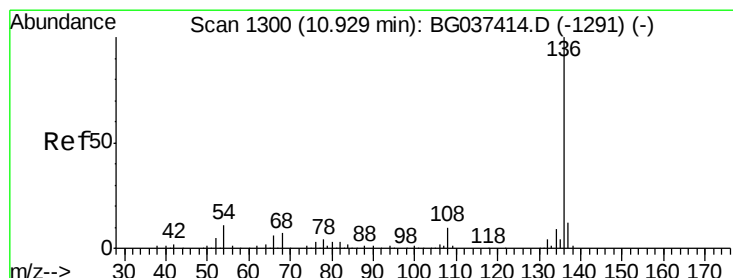
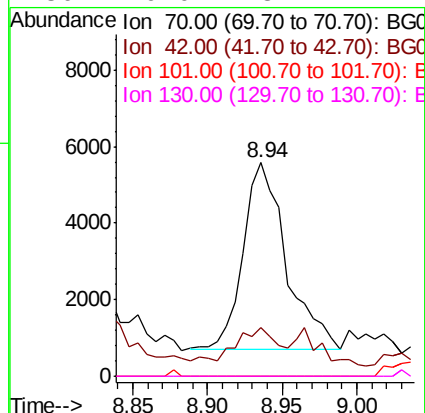
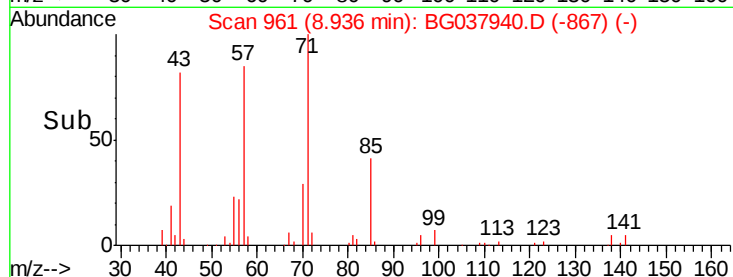
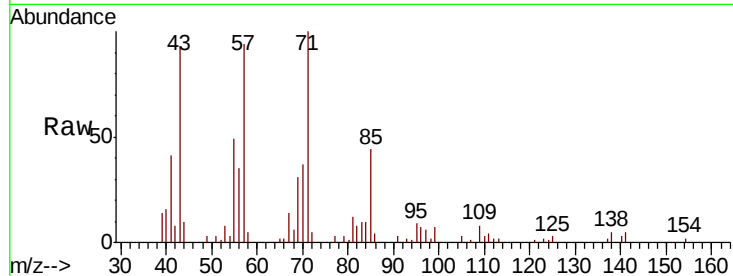




#19  
n-Nitroso-di-n-propylamine  
Concen: 3.019 ng  
RT: 8.94 min Scan# 961  
Delta R.T. 0.02 min  
Lab File: BG037940.D  
Acq: 12 Nov 2018 12:02

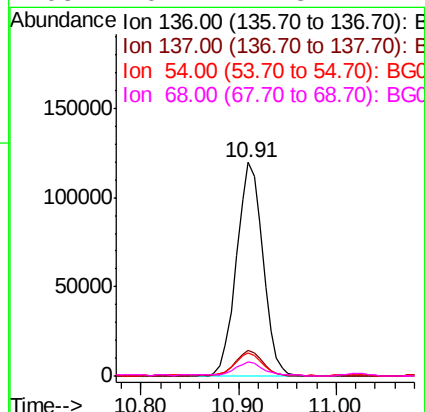
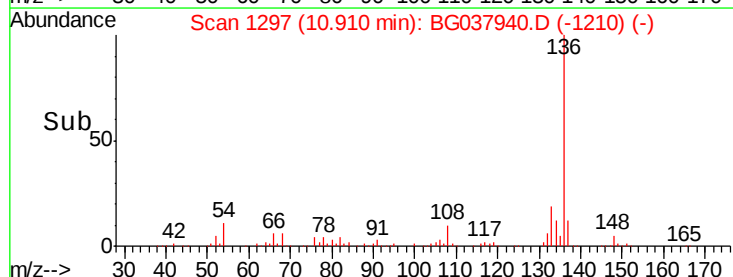
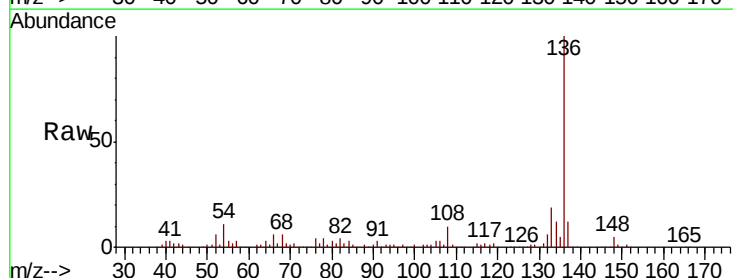
Instrument :  
BNA\_G  
ClientSampleId :

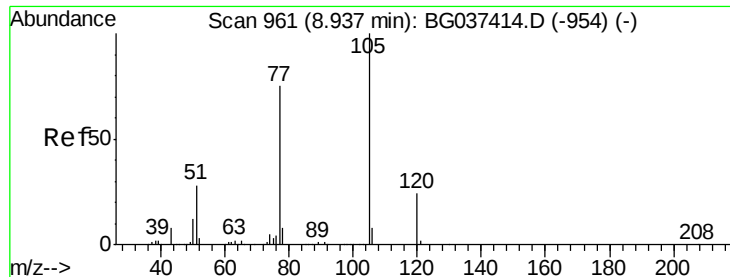
Tot Ion: 70 Resp: 9754  
Ion Ratio Lower Upper  
70 100  
42 22.9 53.9 80.9#  
101 0.0 8.2 12.2#  
130 0.0 18.2 27.4#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.91 min Scan# 1297  
Delta R.T. -0.02 min  
Lab File: BG037940.D  
Acq: 12 Nov 2018 12:02

Tgt Ion: 136 Resp: 225095  
Ion Ratio Lower Upper  
136 100  
137 11.8 9.6 14.4  
54 11.0 7.9 11.9  
68 6.4 4.8 7.2





#22

Acetophenone

Concen: 28.570 ng

RT: 8.88 min Scan# 952

Delta R.T. -0.05 min

Lab File: BG037940.D

Acq: 12 Nov 2018 12:02

Instrument :

BNA\_G

ClientSampled :

Tot Ion:105 Resp: 161288

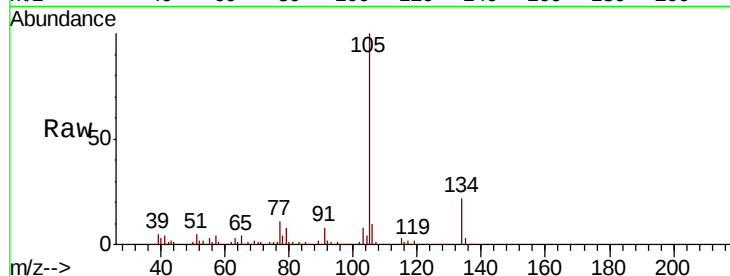
Ion Ratio Lower Upper

105 100

71 0.6 1.2 1.8#

51 4.8 25.0 37.6#

120 0.3 18.6 28.0#

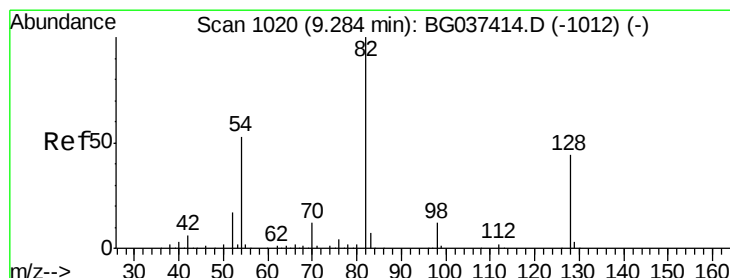
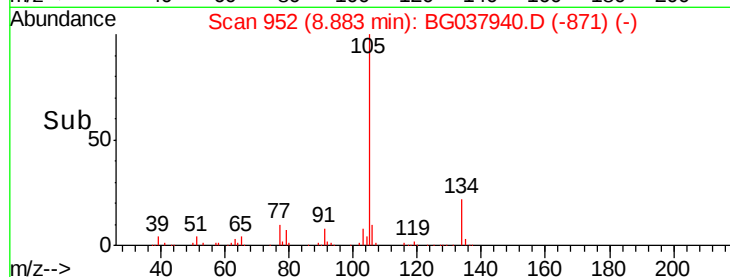
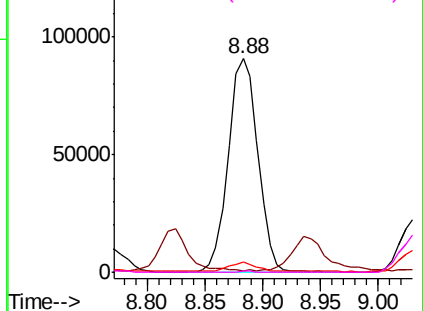


Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BGC

Ion 51.00 (50.70 to 51.70): BGC

Ion 120.00 (119.70 to 120.70): E



#23

Nitrobenzene-d5

Concen: 4.738 ng

RT: 9.26 min Scan# 1017

Delta R.T. -0.02 min

Lab File: BG037940.D

Acq: 12 Nov 2018 12:02

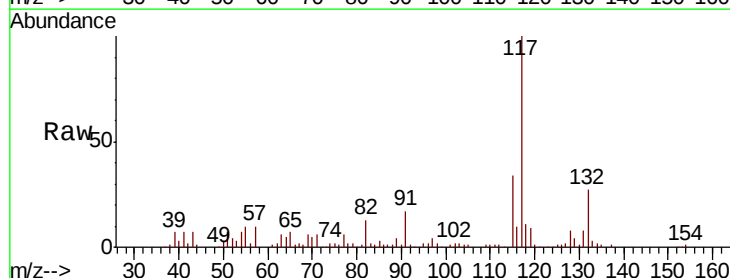
Tgt Ion: 82 Resp: 19038

Ion Ratio Lower Upper

82 100

128 67.5 34.6 51.8#

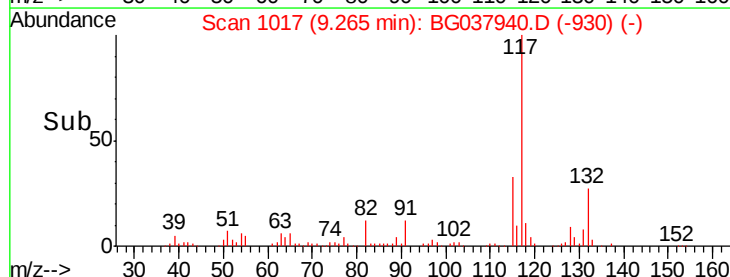
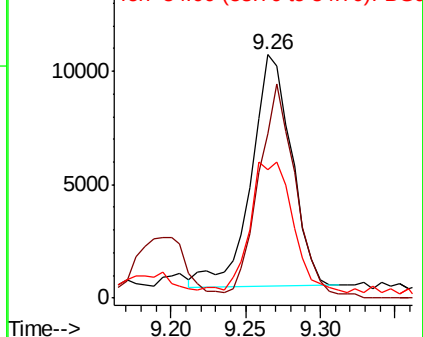
54 52.6 45.3 67.9

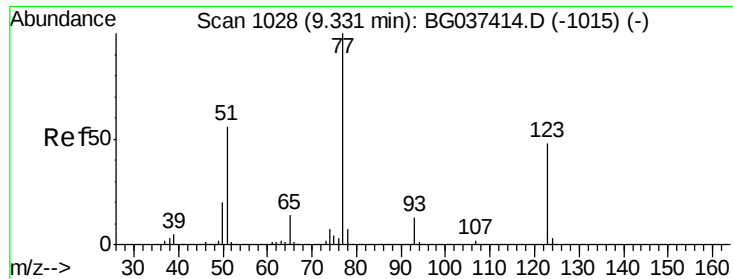


Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BGC

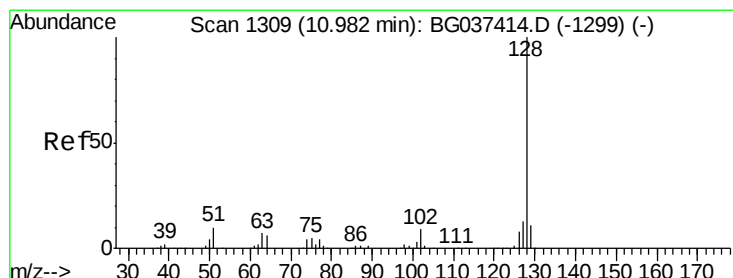
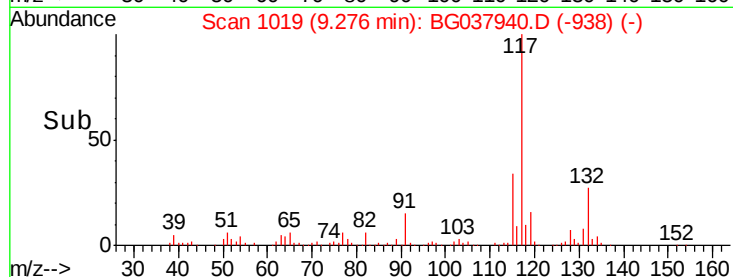
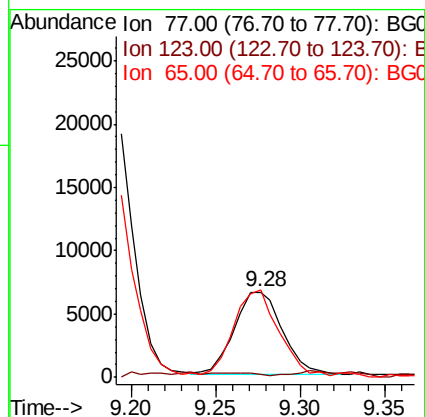
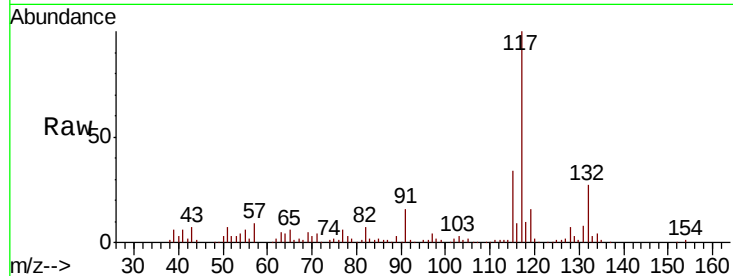




#24  
Nitrobenzene  
Concen: 3.111 ng  
RT: 9.28 min Scan# 1019  
Delta R.T. -0.05 min  
Lab File: BG037940.D  
Acq: 12 Nov 2018 12:02

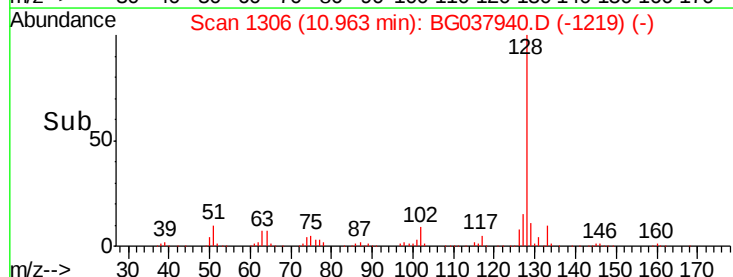
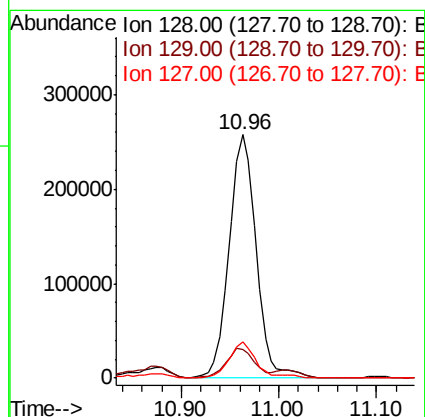
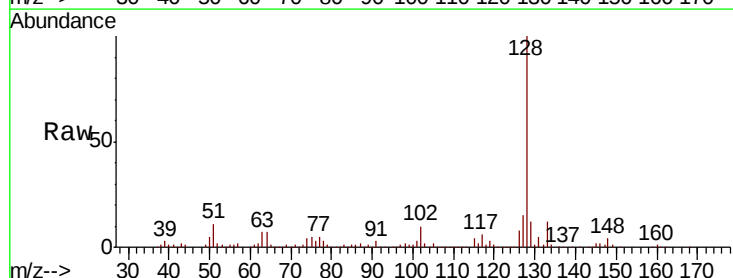
Instrument :  
BNA\_G  
ClientSampled :

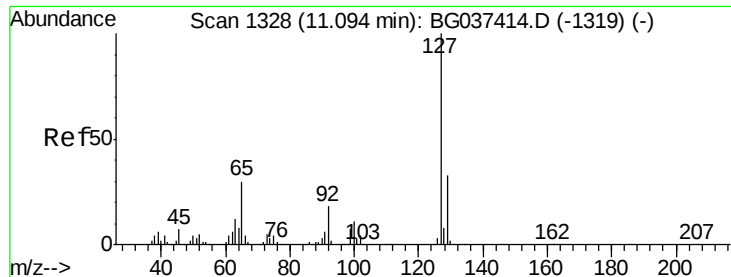
Tot Ion: 77 Resp: 12986  
Ion Ratio Lower Upper  
77 100  
123 3.9 33.6 50.4#  
65 102.8 11.3 16.9#



#31  
Naphthalene  
Concen: 44.769 ng  
RT: 10.96 min Scan# 1306  
Delta R.T. -0.02 min  
Lab File: BG037940.D  
Acq: 12 Nov 2018 12:02

Tgt Ion: 128 Resp: 494967  
Ion Ratio Lower Upper  
128 100  
129 11.6 9.0 13.6  
127 14.7 11.1 16.7

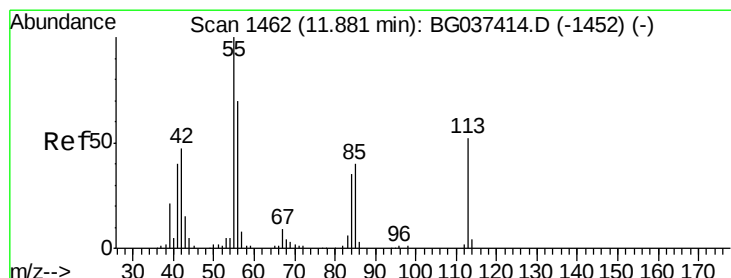
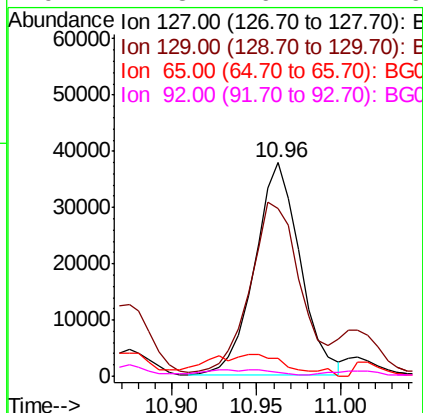
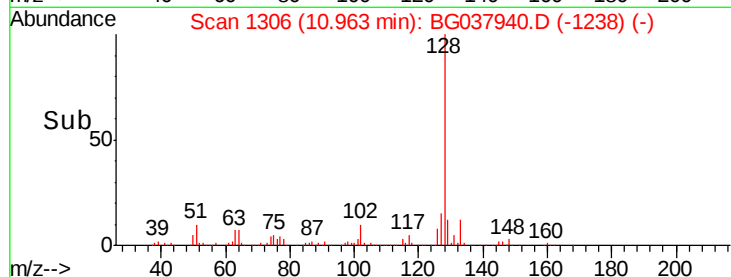
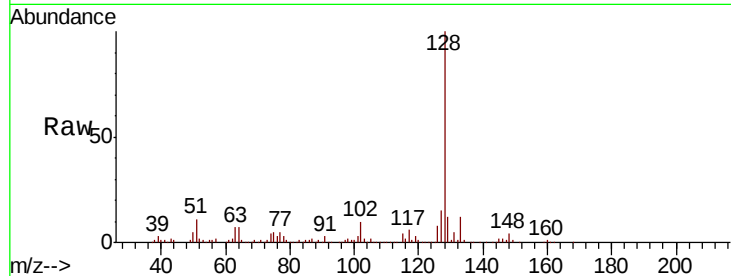




#33  
4-Chloroaniline  
Concen: 13.428 ng  
RT: 10.96 min Scan# 1306  
Delta R.T. -0.13 min  
Lab File: BG037940.D  
Acq: 12 Nov 2018 12:02

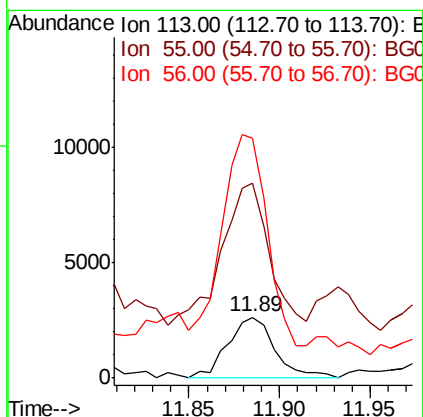
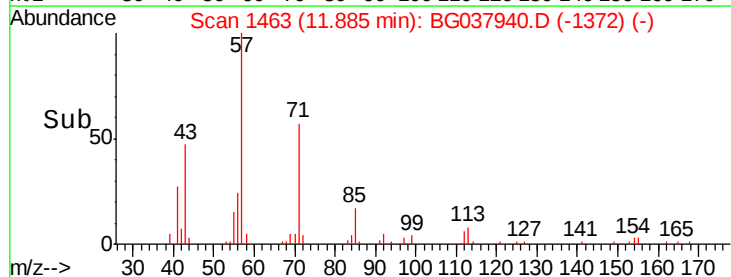
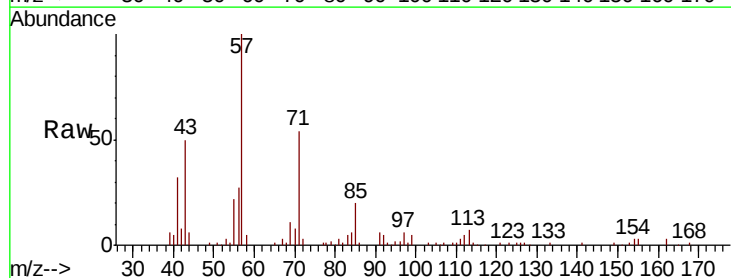
Instrument :  
BNA\_G  
ClientSampled :

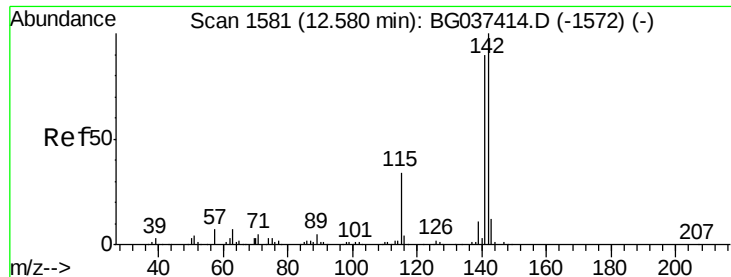
|             |       |            |
|-------------|-------|------------|
| Tot Ion:127 | Resp: | 69756      |
| Ion Ratio   | Lower | Upper      |
| 127         | 100   |            |
| 129         | 78.4  | 27.1 40.7# |
| 65          | 8.2   | 26.6 39.8# |
| 92          | 1.8   | 16.4 24.6# |



#35  
Caprolactam  
Concen: 3.181 ng  
RT: 11.89 min Scan# 1463  
Delta R.T. 0.00 min  
Lab File: BG037940.D  
Acq: 12 Nov 2018 12:02

|             |       |              |
|-------------|-------|--------------|
| Tgt Ion:113 | Resp: | 4769         |
| Ion Ratio   | Lower | Upper        |
| 113         | 100   |              |
| 55          | 317.7 | 176.6 216.6# |
| 56          | 391.8 | 128.3 168.3# |

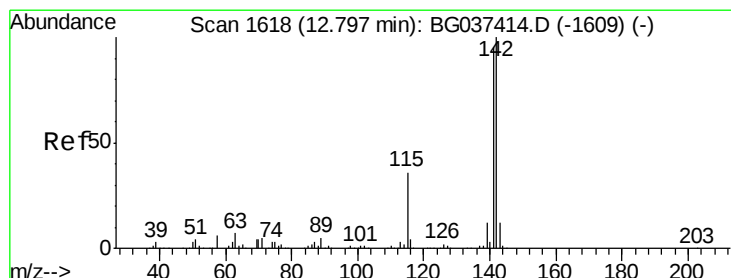
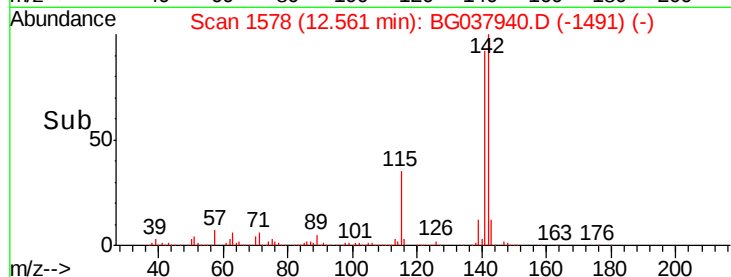
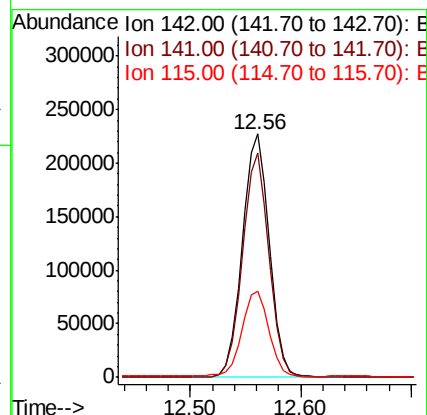
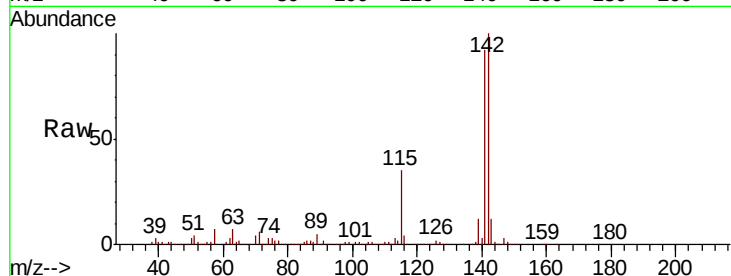




#37  
2-Methylnaphthalene  
Concen: 48.179 ng  
RT: 12.56 min Scan# 1578  
Delta R.T. -0.02 min  
Lab File: BG037940.D  
Acq: 12 Nov 2018 12:02

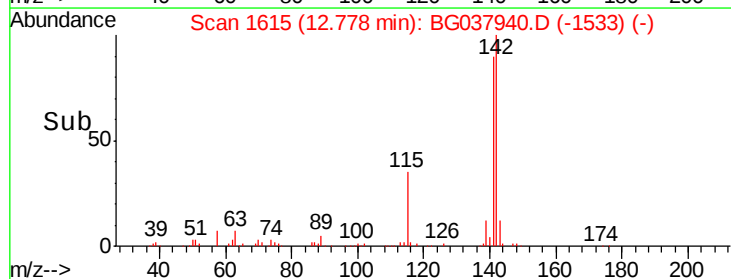
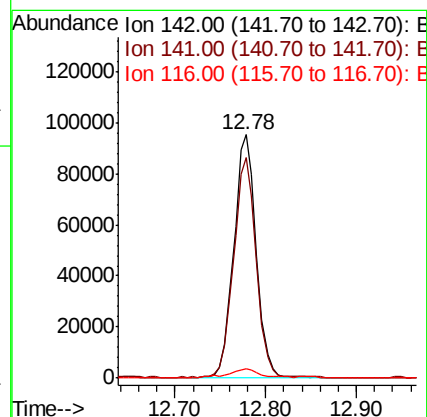
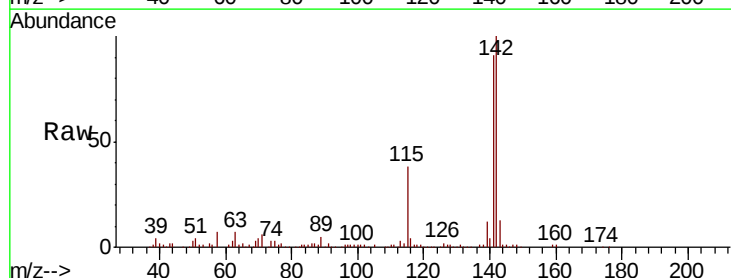
Instrument :  
BNA\_G  
ClientSampleId :

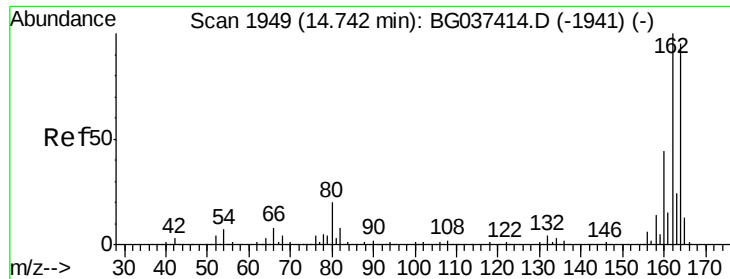
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 92.0  | 71.9  | 107.9 |
| 115     | 35.4  | 27.8  | 41.8  |



#38  
1-Methylnaphthalene  
Concen: 21.023 ng  
RT: 12.78 min Scan# 1615  
Delta R.T. -0.02 min  
Lab File: BG037940.D  
Acq: 12 Nov 2018 12:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 90.7  | 75.2  | 112.8 |
| 116     | 3.7   | 3.3   | 4.9   |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.72 min Scan# 1946

Delta R.T. -0.02 min

Lab File: BG037940.D

Acq: 12 Nov 2018 12:02

Instrument :

BNA\_G

ClientSampleId :

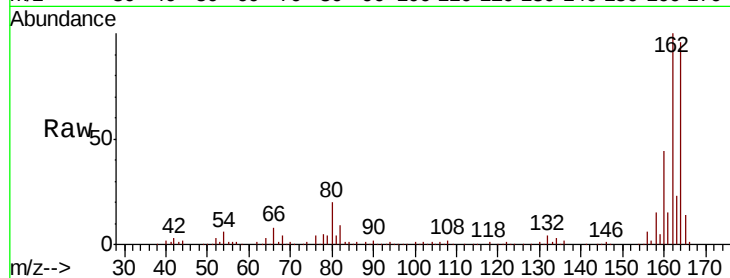
Tot Ion:164 Resp: 151420

Ion Ratio Lower Upper

164 100

162 104.6 81.3 121.9

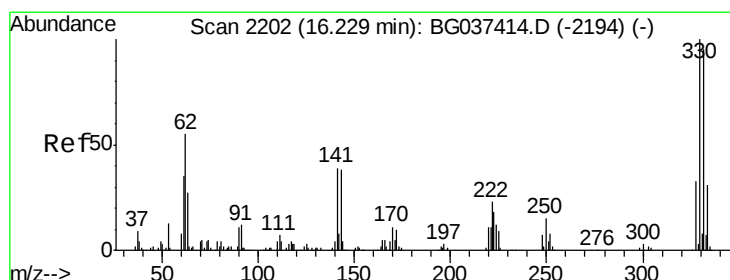
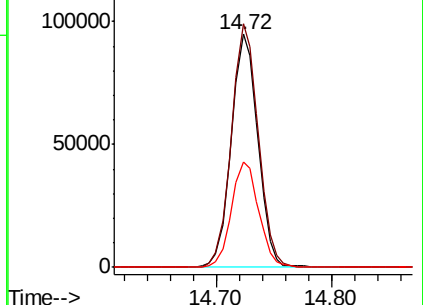
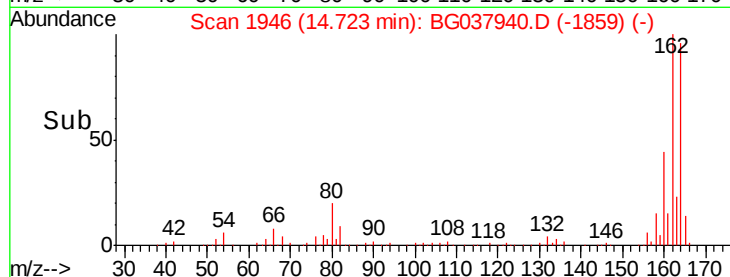
160 45.5 36.3 54.5



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



#42

2,4,6-Tribromophenol

Concen: 3.571 ng

RT: 16.22 min Scan# 2200

Delta R.T. -0.01 min

Lab File: BG037940.D

Acq: 12 Nov 2018 12:02

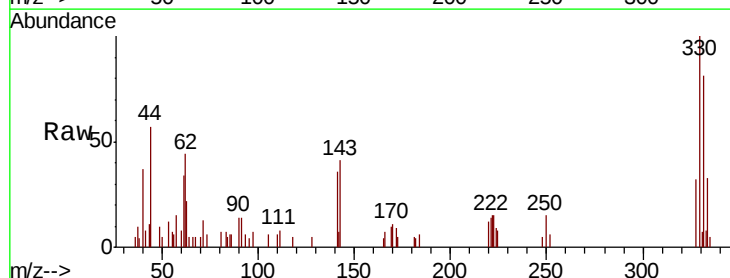
Tgt Ion:330 Resp: 5897

Ion Ratio Lower Upper

330 100

332 100.2 78.4 117.6

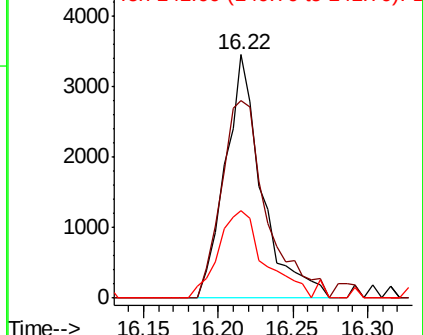
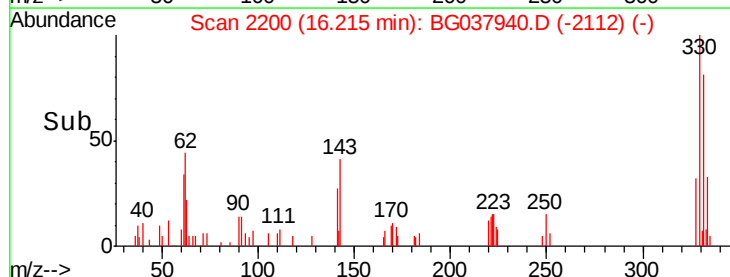
141 45.1 32.2 48.2

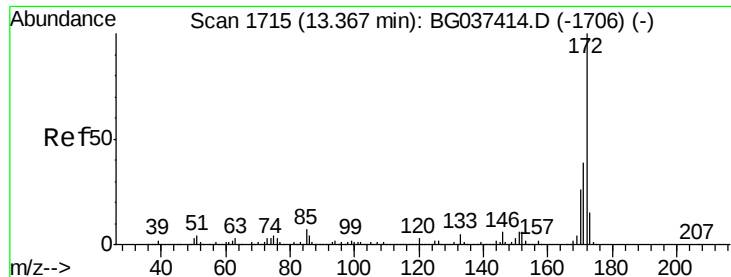


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

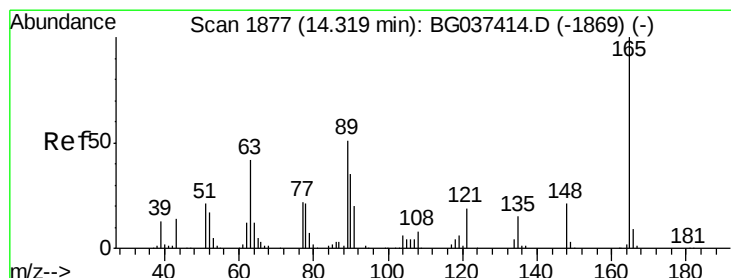
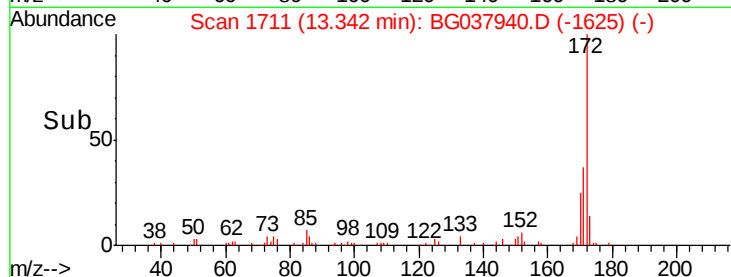
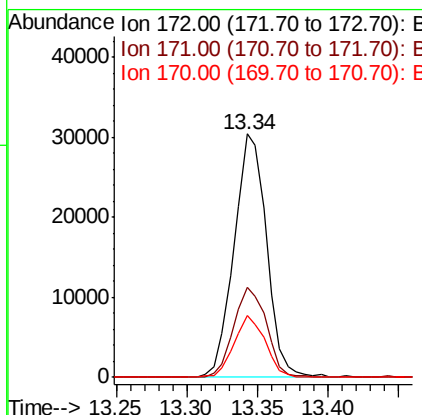
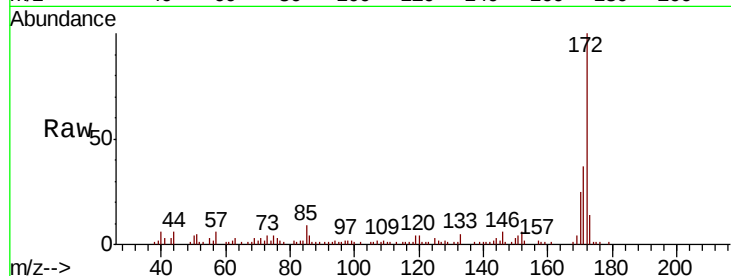




#45  
 2-Fluorobiphenyl  
 Concen: 4.877 ng  
 RT: 13.34 min Scan# 1711  
 Delta R.T. -0.03 min  
 Lab File: BG037940.D  
 Acq: 12 Nov 2018 12:02

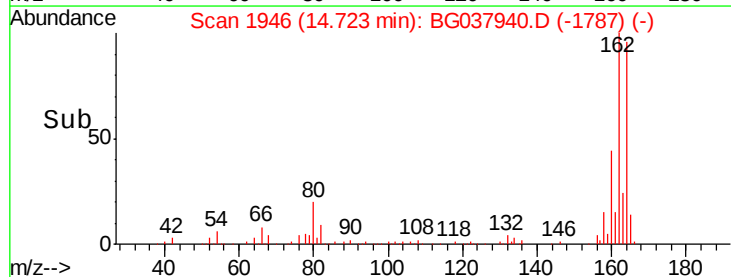
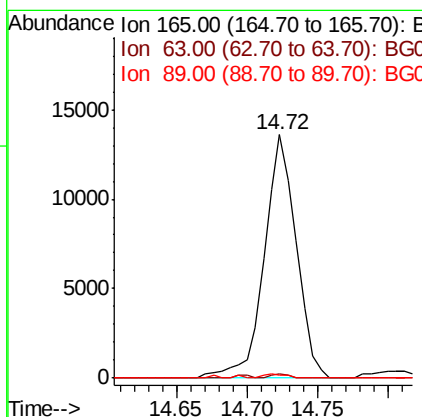
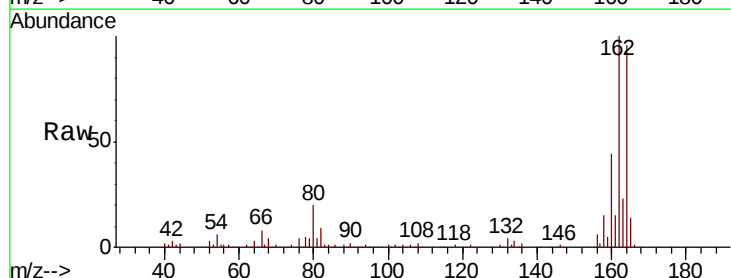
Instrument :  
 BNA\_G  
 ClientSampleId :

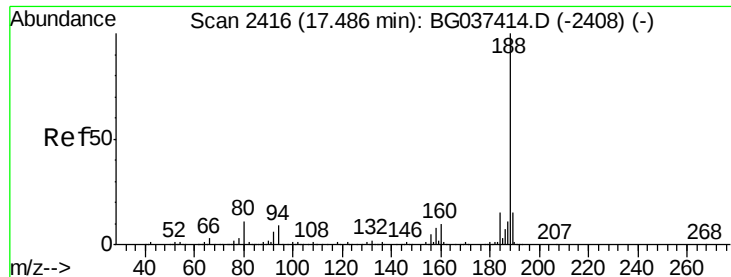
Tot Ion:172 Resp: 48972  
 Ion Ratio Lower Upper  
 172 100  
 171 37.1 31.0 46.4  
 170 25.2 20.2 30.2



#51  
 2,6-Dinitrotoluene  
 Concen: 8.314 ng  
 RT: 14.72 min Scan# 1946  
 Delta R.T. 0.40 min  
 Lab File: BG037940.D  
 Acq: 12 Nov 2018 12:02

Tgt Ion:165 Resp: 21546  
 Ion Ratio Lower Upper  
 165 100  
 63 1.8 43.4 65.2#  
 89 1.2 45.8 68.6#

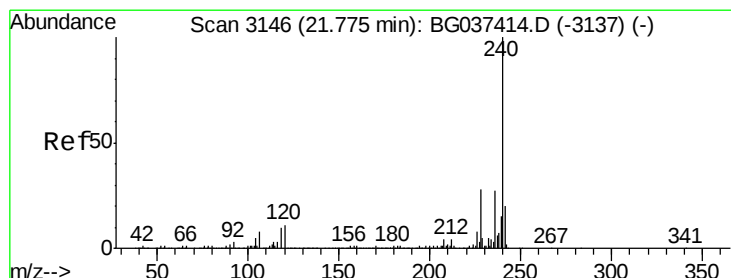
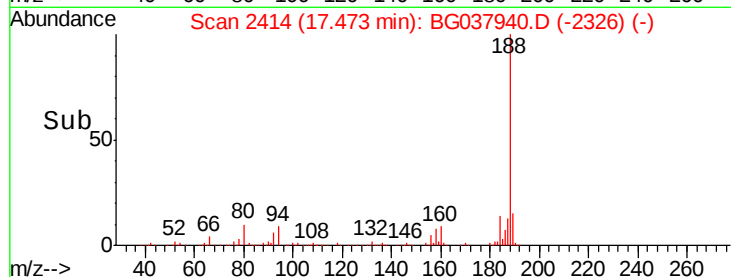
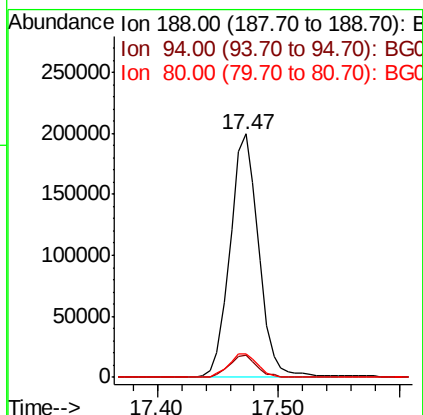
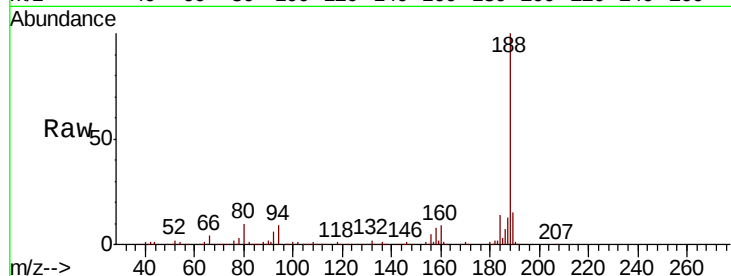




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.47 min Scan# 2414  
Delta R.T. -0.01 min  
Lab File: BG037940.D  
Acq: 12 Nov 2018 12:02

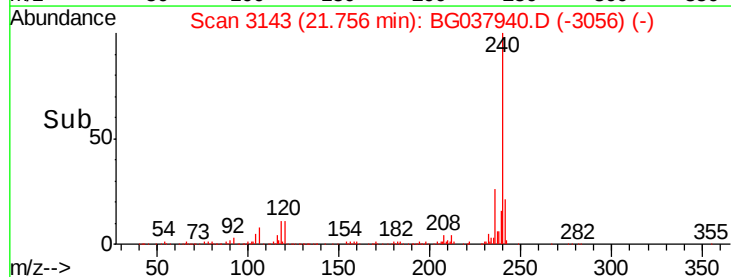
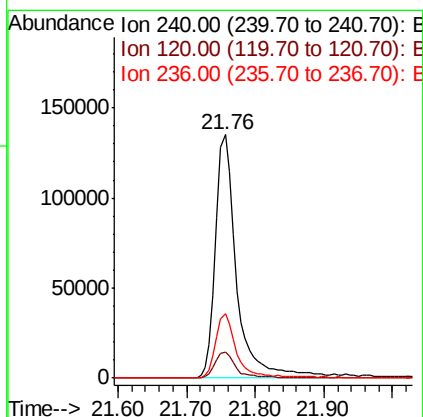
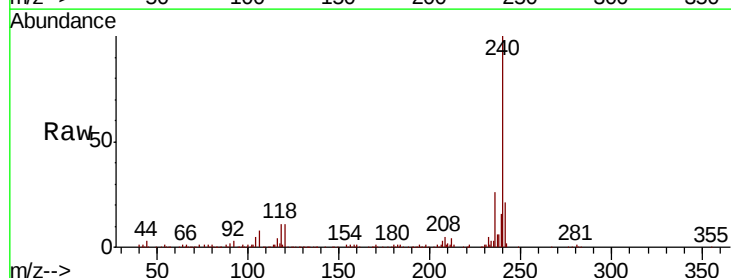
Instrument :  
BNA\_G  
ClientSampled :

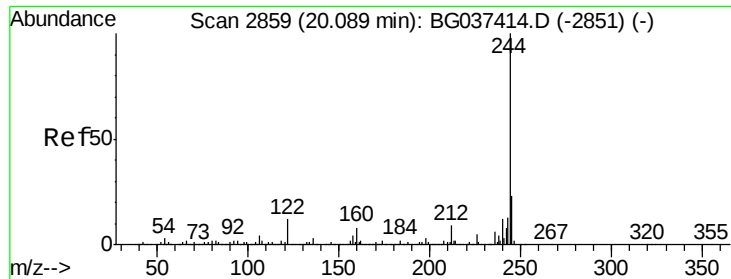
Tot Ion:188 Resp: 329610  
Ion Ratio Lower Upper  
188 100  
94 9.1 7.2 10.8  
80 9.9 7.7 11.5



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.76 min Scan# 3143  
Delta R.T. -0.02 min  
Lab File: BG037940.D  
Acq: 12 Nov 2018 12:02

Tgt Ion:240 Resp: 292719  
Ion Ratio Lower Upper  
240 100  
120 10.7 8.1 12.1  
236 26.3 21.4 32.0





#79

Terphenyl-d14

Concen: 5.267 ng

RT: 20.07 min Scan# 2856

Delta R.T. -0.02 min

Lab File: BG037940.D

Acq: 12 Nov 2018 12:02

Instrument :

BNA\_G

ClientSampleId :

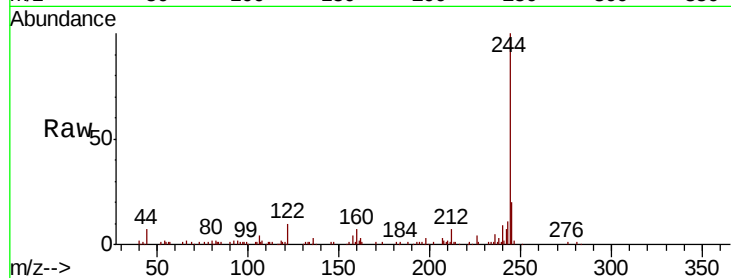
Tot Ion:244 Resp: 72151

Ion Ratio Lower Upper

244 100

212 7.2 6.5 9.7

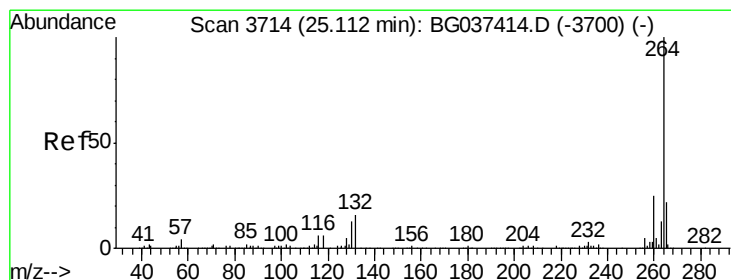
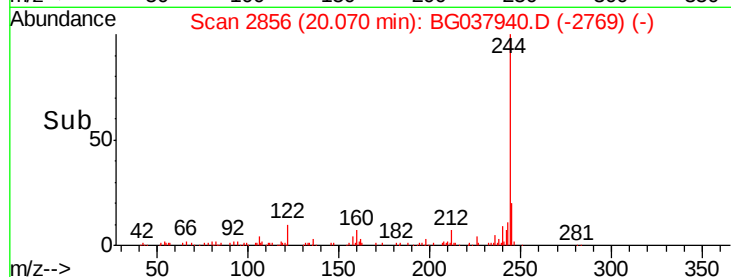
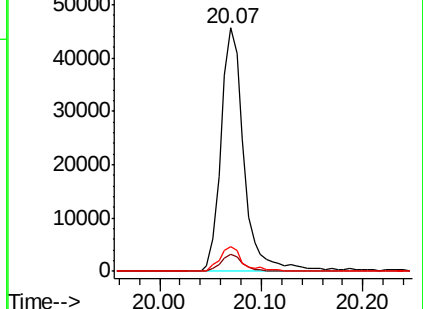
122 10.1 9.0 13.4



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 25.08 min Scan# 3709

Delta R.T. -0.03 min

Lab File: BG037940.D

Acq: 12 Nov 2018 12:02

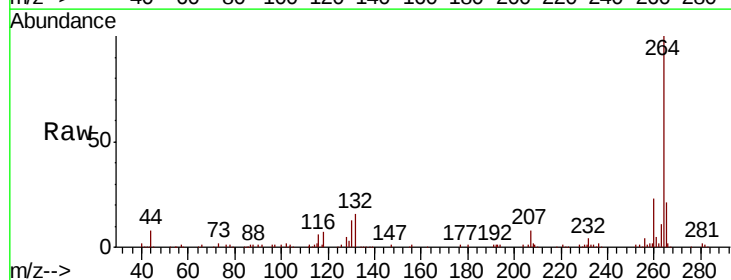
Tgt Ion:264 Resp: 224410

Ion Ratio Lower Upper

264 100

260 23.4 18.2 27.4

265 21.3 17.9 26.9



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

