

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111319\  
 Data File : BG043620.D  
 Acq On : 13 Nov 2019 19:59  
 Operator : JU  
 Sample : PB124721BL  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Nov 14 01:42:54 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG102119.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 04 15:22:15 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.99  | 152  | 30613    | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 10.80 | 136  | 118424   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10      | 14.63 | 164  | 89363    | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10      | 17.38 | 188  | 221343   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12          | 21.64 | 240  | 246198   | 20.00 | ng    | -0.02    |
| 87) Perylene-d12          | 24.82 | 264  | 292316   | 20.00 | ng    | -0.04    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.60  | 112  | 138919   | 83.15  | ng    | 0.00     |
| 7) Phenol-d6                | 7.20  | 99   | 122248   | 50.86  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.16  | 82   | 178709   | 77.80  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 16.12 | 330  | 177876   | 104.60 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 13.25 | 172  | 514363   | 79.53  | ng    | -0.01    |
| 79) Terphenyl-d14           | 19.99 | 244  | 1130780  | 86.17  | ng    | -0.01    |

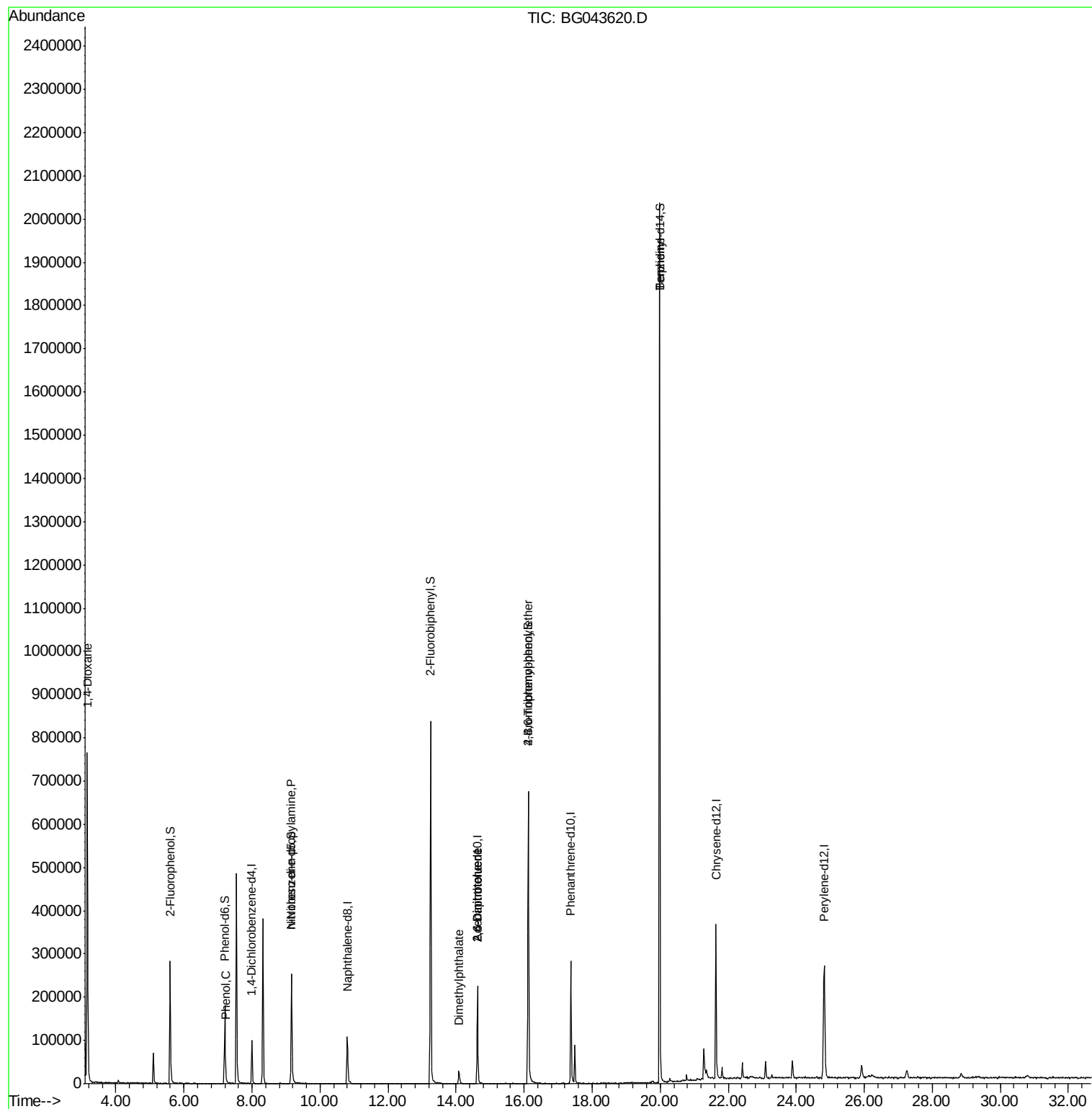
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 2) 1,4-Dioxane                 | 3.16  | 88   | 6803     | 10.450 | ng    | # 1    |
| 10) Phenol                     | 7.23  | 94   | 4594     | 2.092  | ng    | # 81   |
| 19) n-Nitroso-di-n-propylamine | 9.16  | 70   | 23590    | 15.188 | ng    | # 81   |
| 50) Dimethylphthalate          | 14.09 | 163  | 31445    | 4.543  | ng    | # 96   |
| 51) 2,6-Dinitrotoluene         | 14.63 | 165  | 11623    | 7.729  | ng    | # 22   |
| 57) 2,4-Dinitrotoluene         | 14.63 | 165  | 11623    | 5.409  | ng    | # 25   |
| 67) 4-Bromophenyl-phenylether  | 16.12 | 248  | 11790    | 3.958  | ng    | # 1    |
| 77) Benzidine                  | 19.98 | 184  | 16947    | 3.420  | ng    | # 90   |

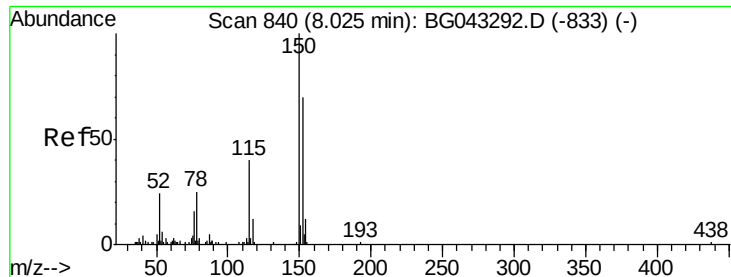
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111319\  
Data File : BG043620.D  
Acq On : 13 Nov 2019 19:59  
Operator : JU  
Sample : PB124721BL  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Nov 14 01:42:54 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG102119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Nov 04 15:22:15 2019  
Response via : Initial Calibration



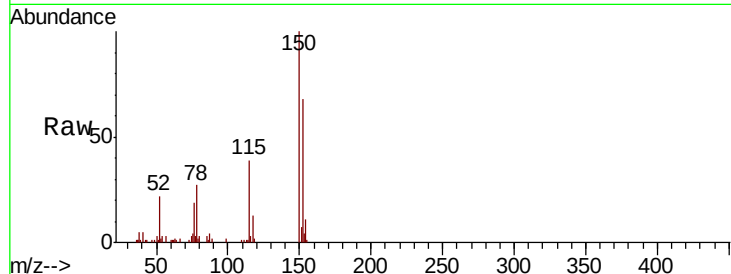


#1

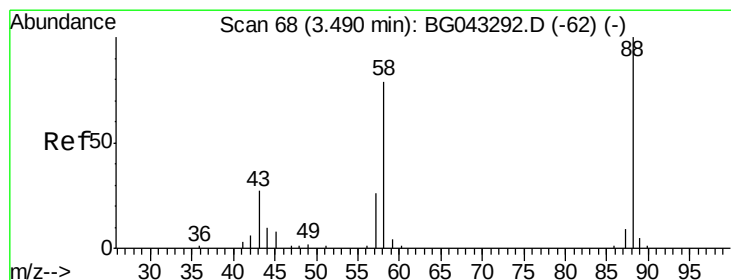
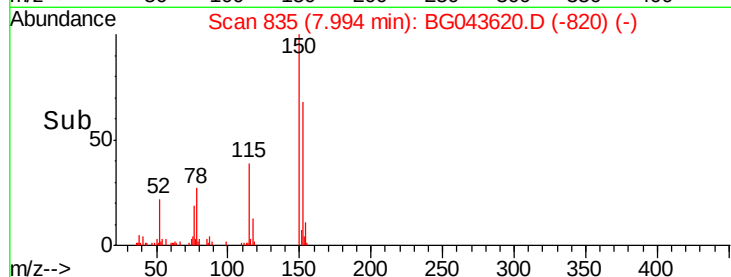
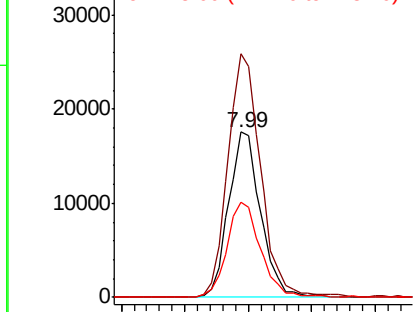
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.99 min Scan# 835  
Delta R.T. -0.01 min  
Lab File: BG043620.D  
Acq: 13 Nov 2019 19:59

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 30613  
Ion Ratio Lower Upper  
152 100  
150 147.6 129.4 194.0  
115 57.7 48.8 73.2



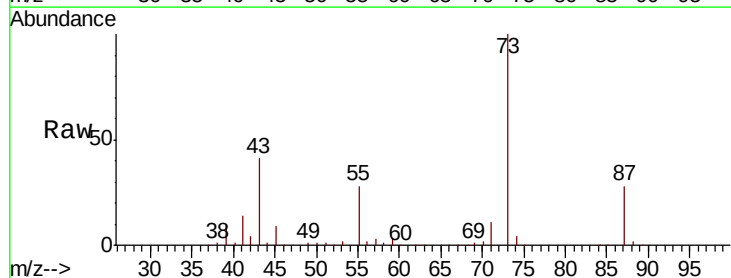
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



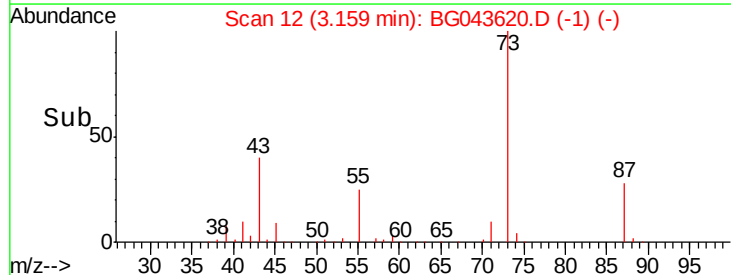
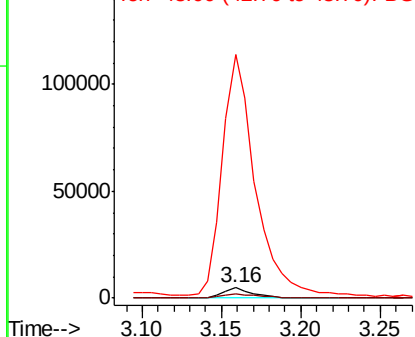
#2

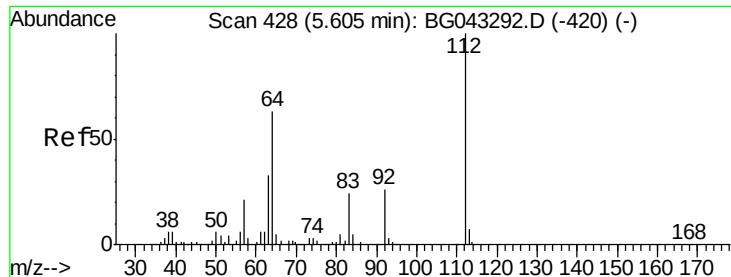
1,4-Dioxane  
Concen: 10.450 ng  
RT: 3.16 min Scan# 12  
Delta R.T. -0.31 min  
Lab File: BG043620.D  
Acq: 13 Nov 2019 19:59

Tgt Ion: 88 Resp: 6803  
Ion Ratio Lower Upper  
88 100  
58 57.6 62.7 94.1#  
43 2432.1 23.7 35.5#



Abundance Ion 88.00 (87.70 to 88.70): BGC  
Ion 58.00 (57.70 to 58.70): BGC  
Ion 43.00 (42.70 to 43.70): BGC





#5

2-Fluorophenol

Concen: 83.155 ng

RT: 5.60 min Scan# 427

Delta R.T. 0.00 min

Lab File: BG043620.D

Acq: 13 Nov 2019 19:59

Instrument :

BNA\_G

ClientSampleId :

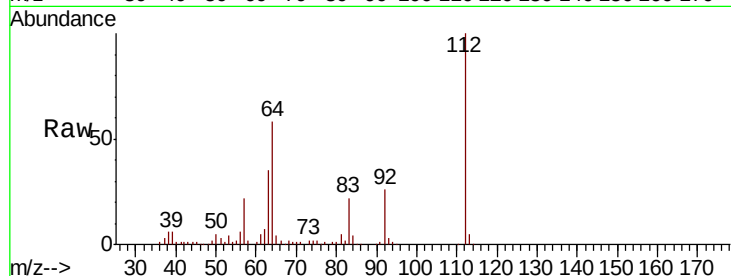
Tot Ion:112 Resp: 138919

Ion Ratio Lower Upper

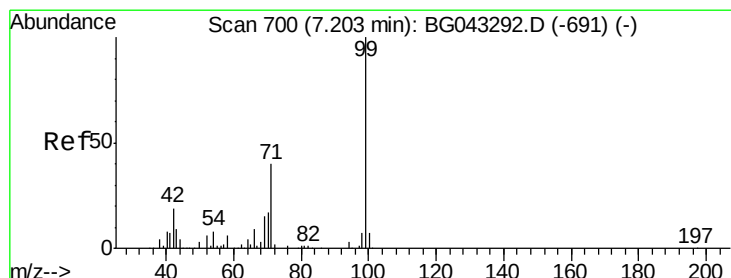
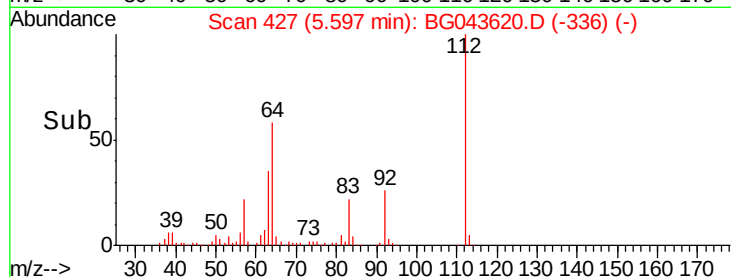
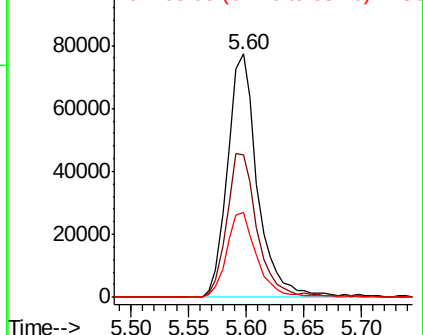
112 100

64 58.4 50.0 75.0

63 34.7 26.6 40.0



Abundance Ion 112.00 (111.70 to 112.70): BGC  
Ion 64.00 (63.70 to 64.70): BGC  
Ion 63.00 (62.70 to 63.70): BGC



#7

Phenol-d6

Concen: 50.860 ng

RT: 7.20 min Scan# 700

Delta R.T. 0.00 min

Lab File: BG043620.D

Acq: 13 Nov 2019 19:59

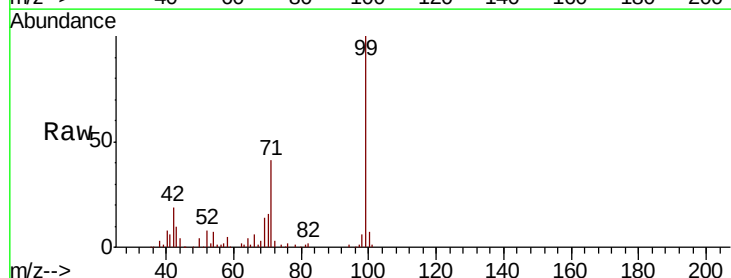
Tgt Ion: 99 Resp: 122248

Ion Ratio Lower Upper

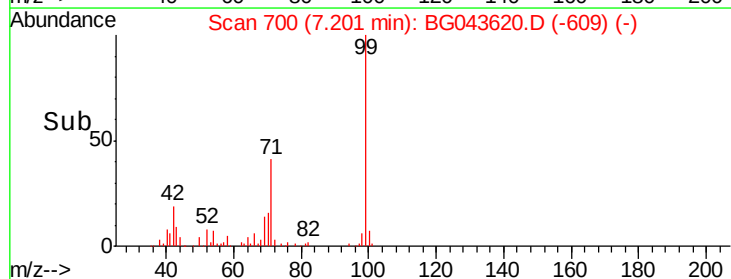
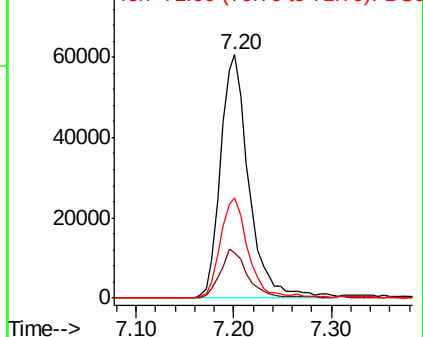
99 100

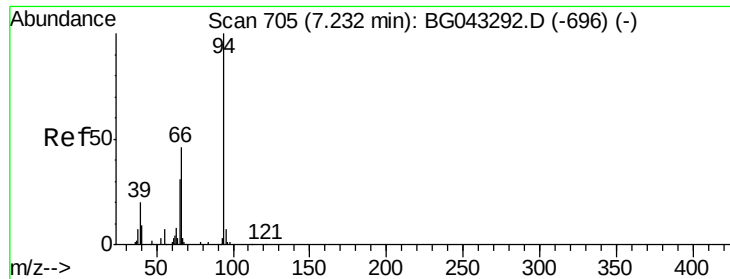
42 18.8 14.6 21.8

71 41.0 32.5 48.7



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: 2.092 ng

RT: 7.23 min Scan# 705

Delta R.T. 0.01 min

Lab File: BG043620.D

Acq: 13 Nov 2019 19:59

Instrument :

BNA\_G

ClientSampled :

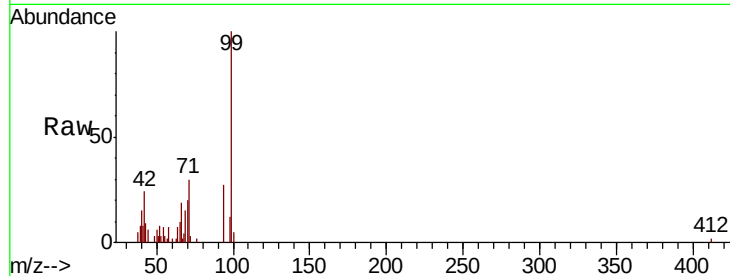
Tot Ion: 94 Resp: 4594

Ion Ratio Lower Upper

94 100

65 37.3 12.6 52.6

66 68.2 30.7 70.7

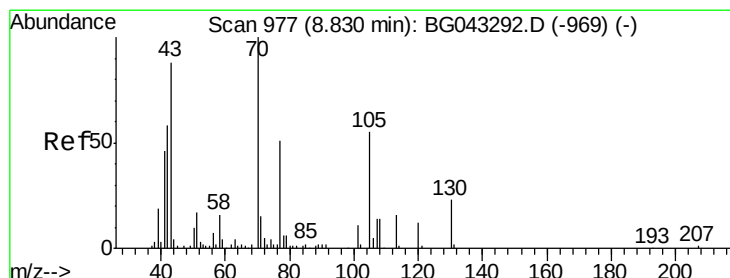
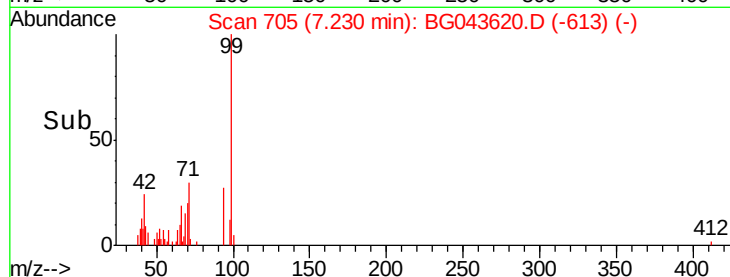
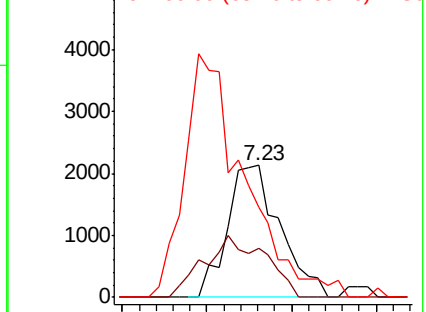


Abundance

Ion 94.00 (93.70 to 94.70): BGC

Ion 65.00 (64.70 to 65.70): BGC

Ion 66.00 (65.70 to 66.70): BGC



#19

n-Nitroso-di-n-propylamine

Concen: 15.188 ng

RT: 9.16 min Scan# 1034

Delta R.T. 0.35 min

Lab File: BG043620.D

Acq: 13 Nov 2019 19:59

Tgt Ion: 70 Resp: 23590

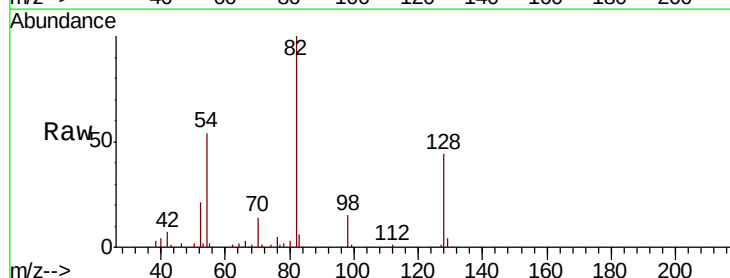
Ion Ratio Lower Upper

70 100

42 48.0 41.4 62.2

101 0.0 7.9 11.9#

130 1.7 19.0 28.4#



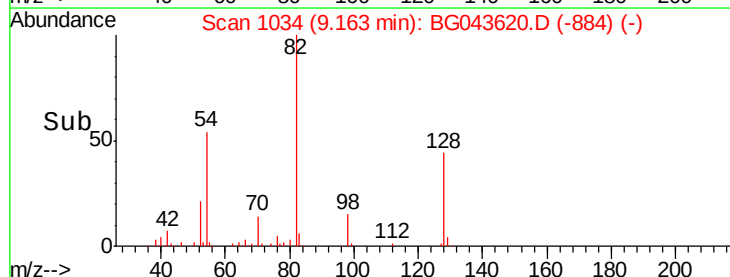
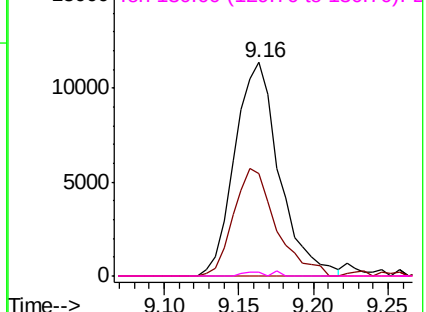
Abundance

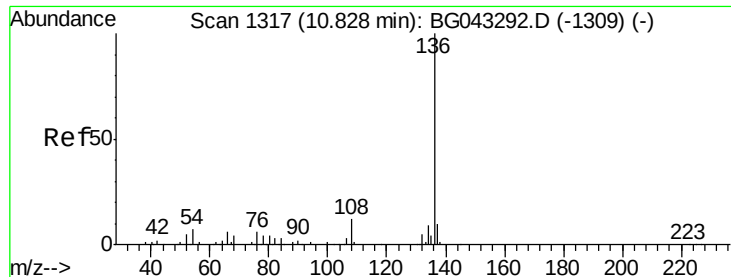
Ion 70.00 (69.70 to 70.70): BGC

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

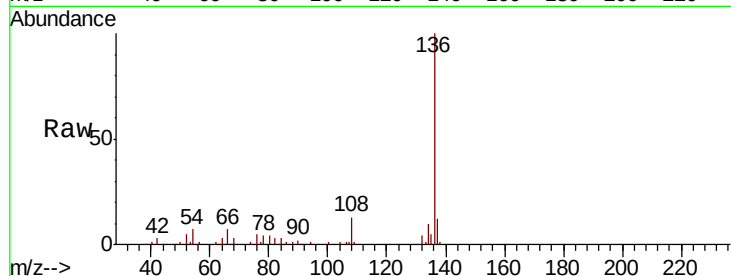




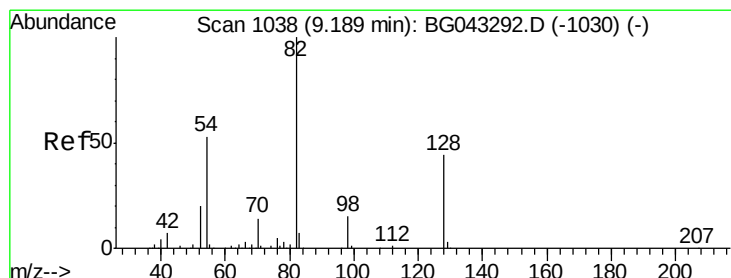
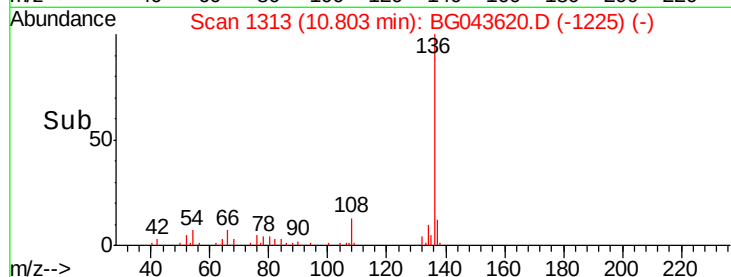
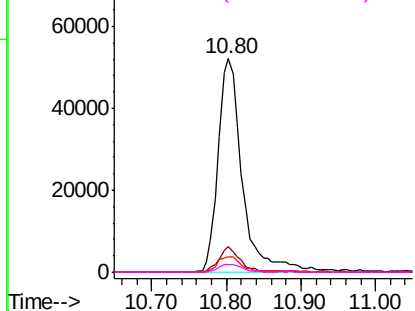
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.80 min Scan# 1313  
Delta R.T. -0.01 min  
Lab File: BG043620.D  
Acq: 13 Nov 2019 19:59

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 118424      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 12.1  | 8.7 13.1    |
| 54          | 7.0   | 5.4 8.2     |
| 68          | 3.4   | 3.0 4.4     |

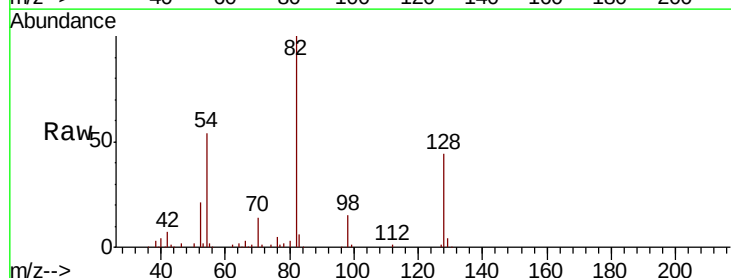


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

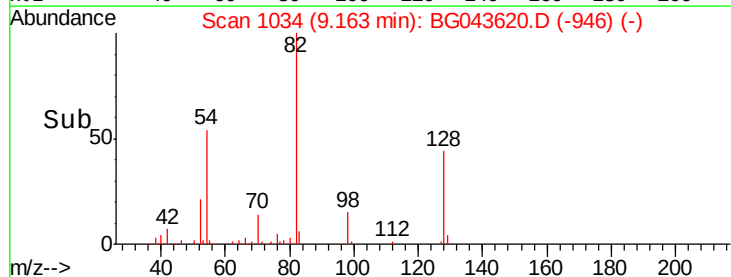
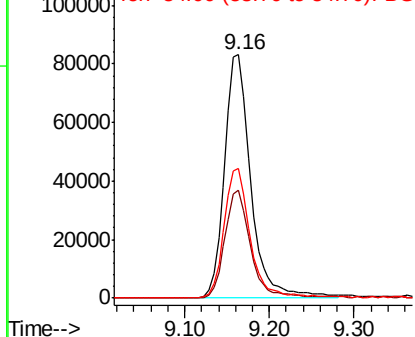


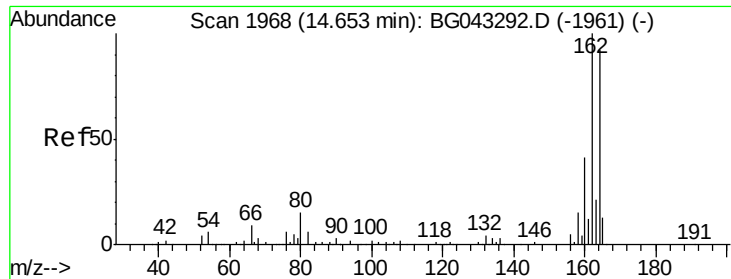
#23  
Nitrobenzene-d5  
Concen: 77.799 ng  
RT: 9.16 min Scan# 1034  
Delta R.T. -0.01 min  
Lab File: BG043620.D  
Acq: 13 Nov 2019 19:59

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 178709      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 44.3  | 35.0 52.6   |
| 54          | 53.5  | 40.2 60.2   |



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

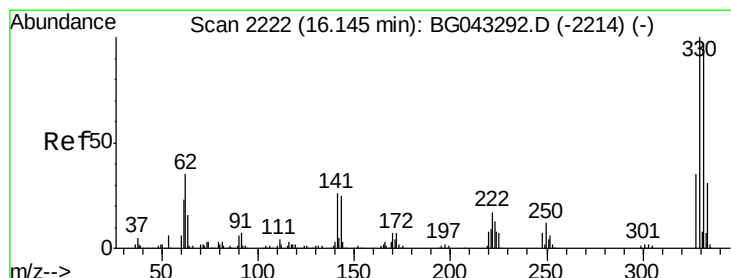
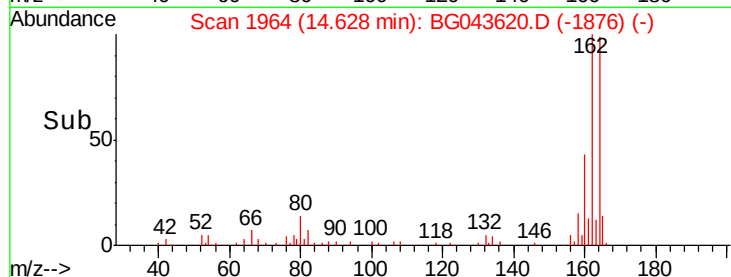
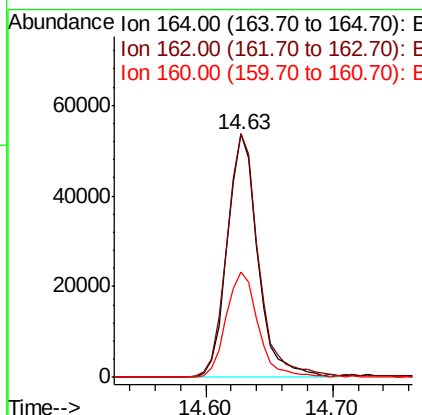
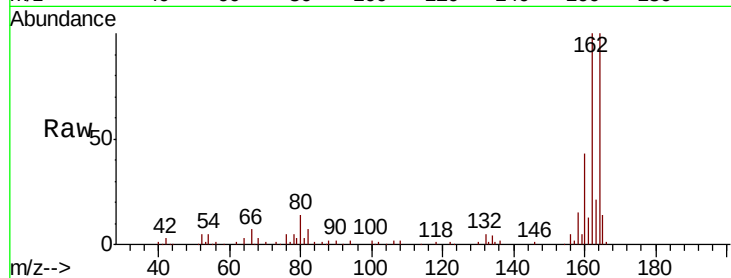




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.63 min Scan# 1964  
Delta R.T. -0.01 min  
Lab File: BG043620.D  
Acq: 13 Nov 2019 19:59

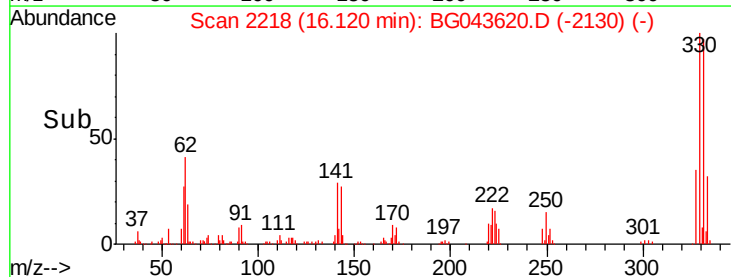
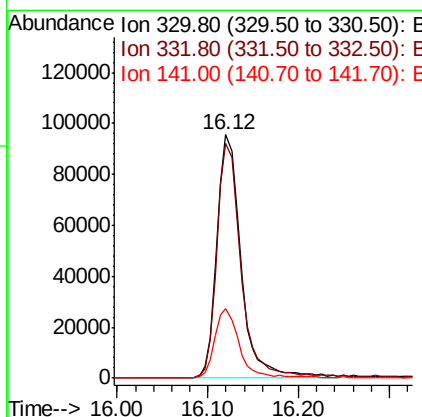
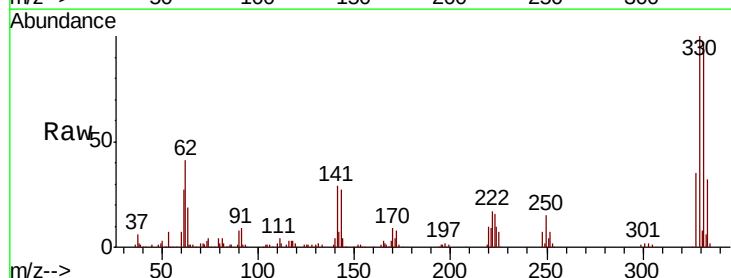
Instrument :  
BNA\_G  
ClientSampleId :

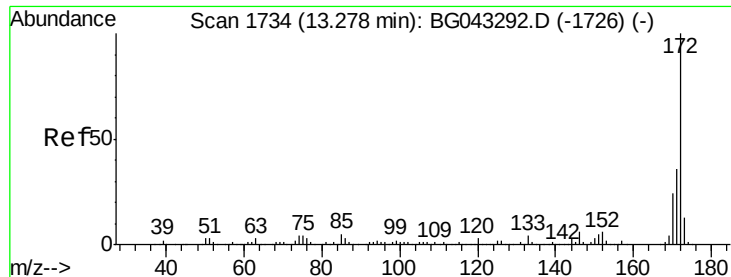
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 99.9  | 83.5  | 125.3 |
| 160     | 43.2  | 36.5  | 54.7  |



#42  
2,4,6-Tribromophenol  
Concen: 104.597 ng  
RT: 16.12 min Scan# 2218  
Delta R.T. -0.01 min  
Lab File: BG043620.D  
Acq: 13 Nov 2019 19:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.2  | 77.4  | 116.0 |
| 141     | 29.2  | 22.8  | 34.2  |



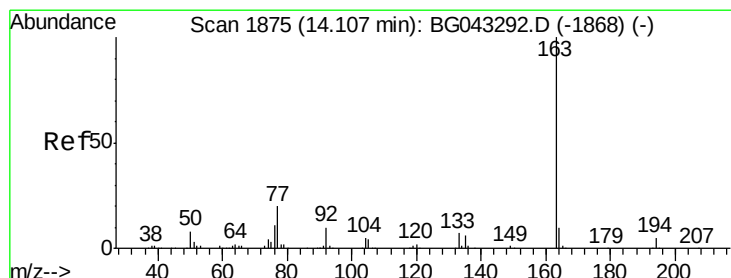
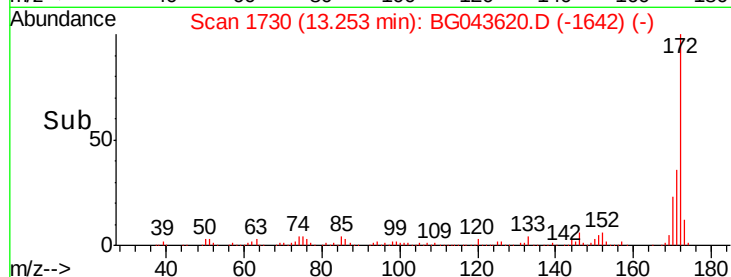
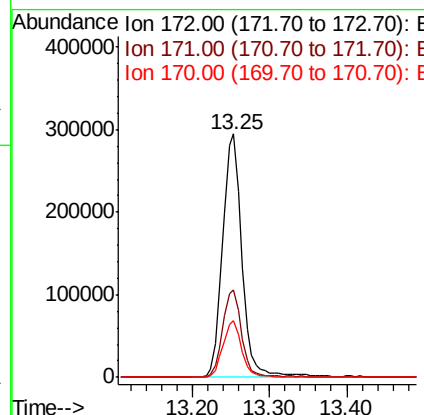
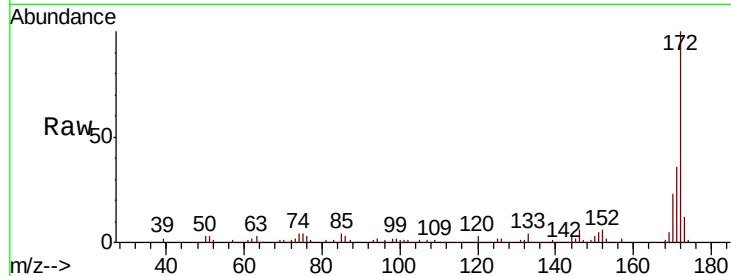


#45  
 2-Fluorobiphenyl  
 Concen: 79.535 ng  
 RT: 13.25 min Scan# 1730  
 Delta R.T. -0.01 min  
 Lab File: BG043620.D  
 Acq: 13 Nov 2019 19:59

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:172 Resp: 514363  

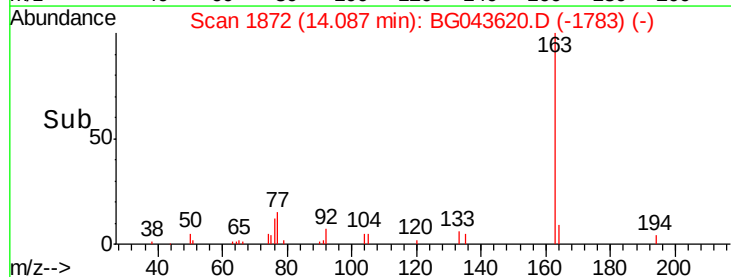
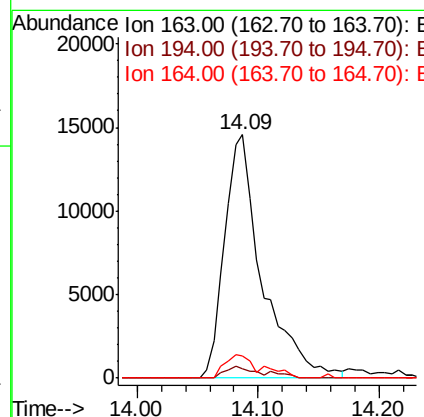
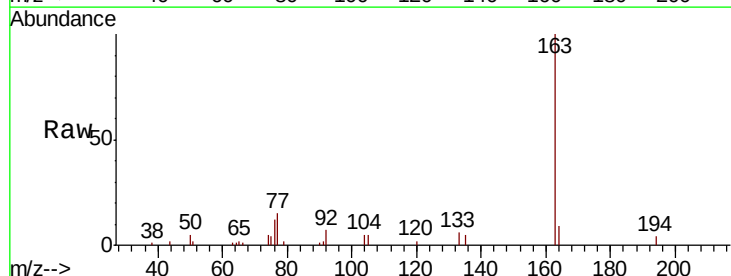
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 36.1  | 28.9  | 43.3  |
| 170 | 23.1  | 18.5  | 27.7  |



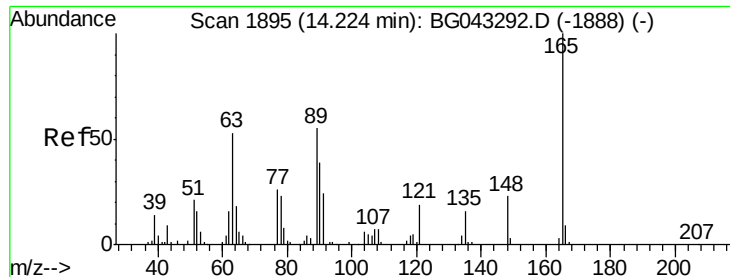
#50  
 Dimethylphthalate  
 Concen: 4.543 ng  
 RT: 14.09 min Scan# 1872  
 Delta R.T. -0.01 min  
 Lab File: BG043620.D  
 Acq: 13 Nov 2019 19:59

Tgt Ion:163 Resp: 31445  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 163 | 100   |       |       |
| 194 | 4.0   | 3.8   | 5.6   |
| 164 | 9.0   | 8.9   | 13.3  |



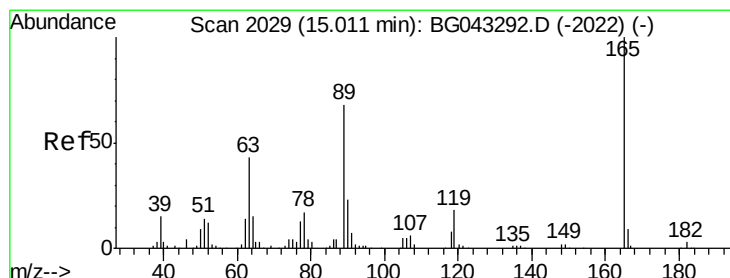
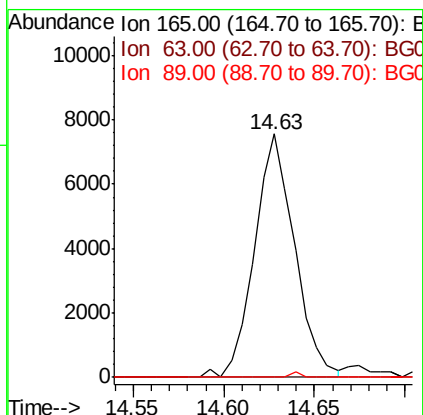
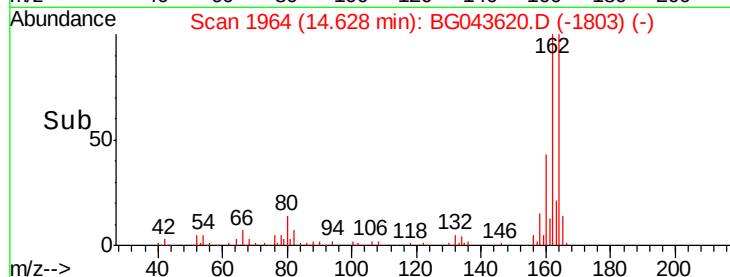
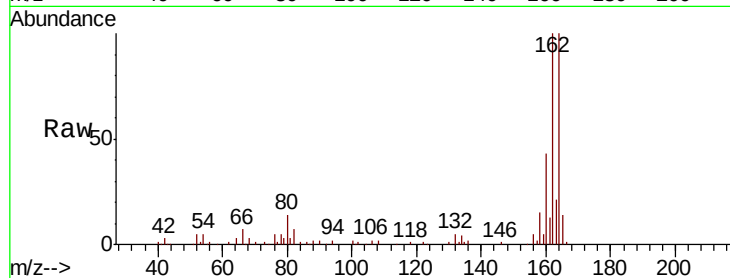




#51  
 2,6-Dinitrotoluene  
 Concen: 7.729 ng  
 RT: 14.63 min Scan# 1964  
 Delta R.T. 0.42 min  
 Lab File: BG043620.D  
 Acq: 13 Nov 2019 19:59

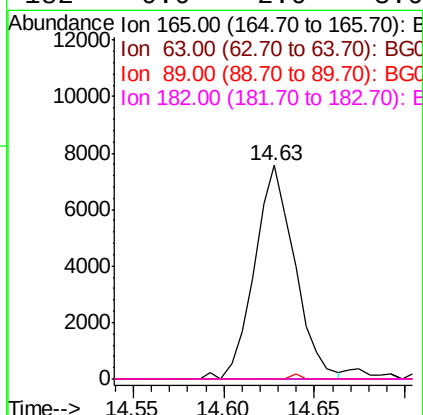
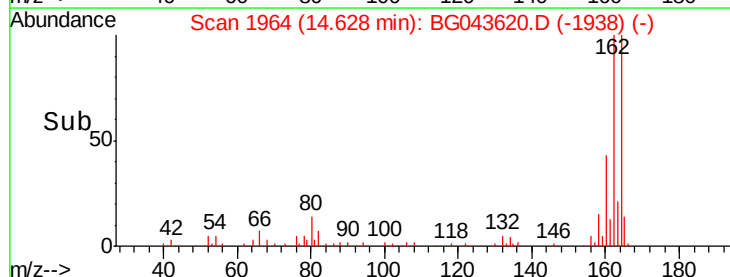
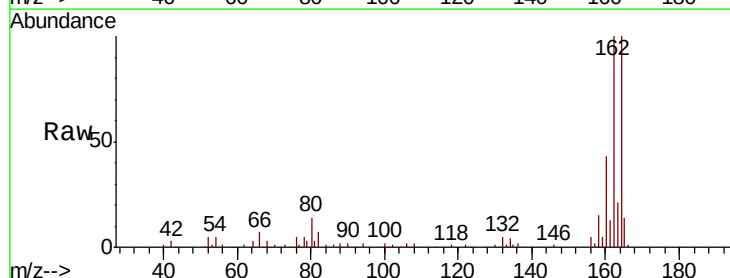
Instrument :  
 BNA\_G  
 ClientSampleId :

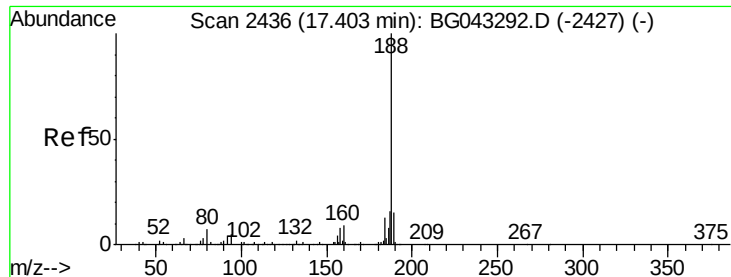
Tot Ion:165 Resp: 11623  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 46.6 69.8#  
 89 0.0 45.1 67.7#



#57  
 2,4-Dinitrotoluene  
 Concen: 5.409 ng  
 RT: 14.63 min Scan# 1964  
 Delta R.T. -0.38 min  
 Lab File: BG043620.D  
 Acq: 13 Nov 2019 19:59

Tgt Ion:165 Resp: 11623  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 33.2 49.8#  
 89 0.0 52.2 78.4#  
 182 0.0 2.0 3.0#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.38 min Scan# 2432

Delta R.T. -0.01 min

Lab File: BG043620.D

Acq: 13 Nov 2019 19:59

Instrument :

BNA\_G

ClientSampleId :

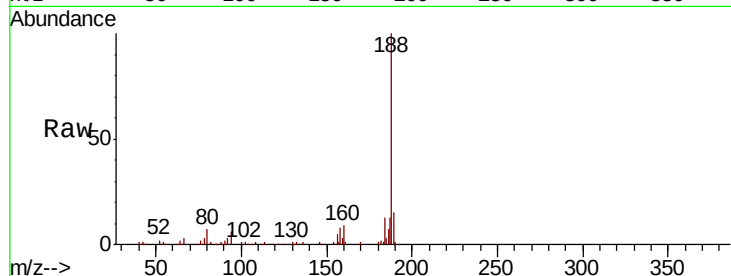
Tot Ion:188 Resp: 221343

Ion Ratio Lower Upper

188 100

94 6.2 4.2 6.4

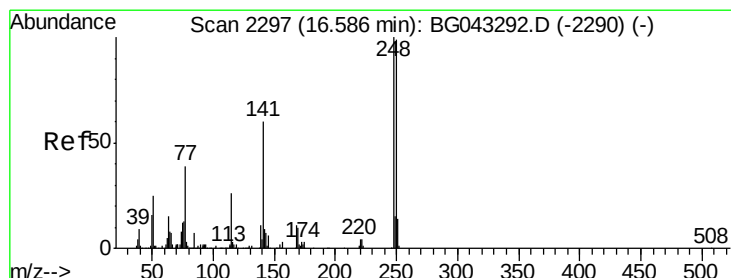
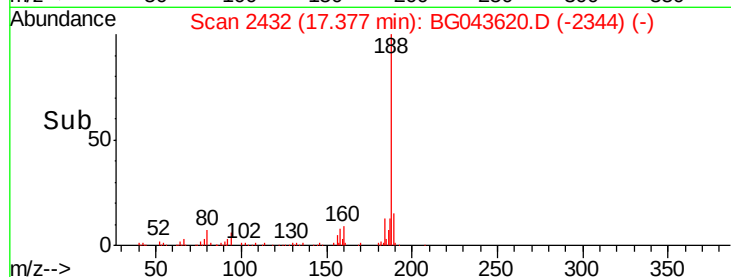
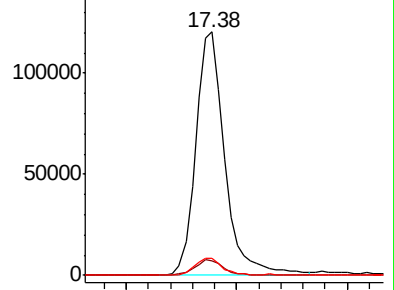
80 7.1 4.5 6.7#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG



#67

4-Bromophenyl-phenylether

Concen: 3.958 ng

RT: 16.12 min Scan# 2218

Delta R.T. -0.45 min

Lab File: BG043620.D

Acq: 13 Nov 2019 19:59

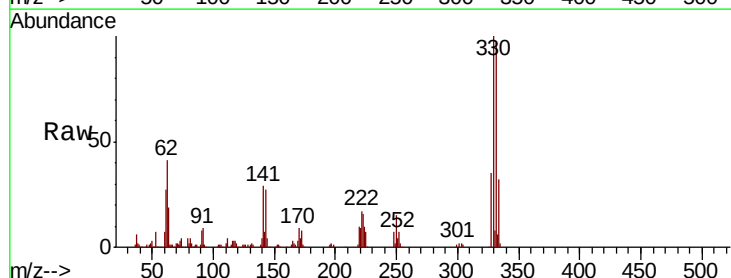
Tgt Ion:248 Resp: 11790

Ion Ratio Lower Upper

248 100

250 211.5 77.0 115.4#

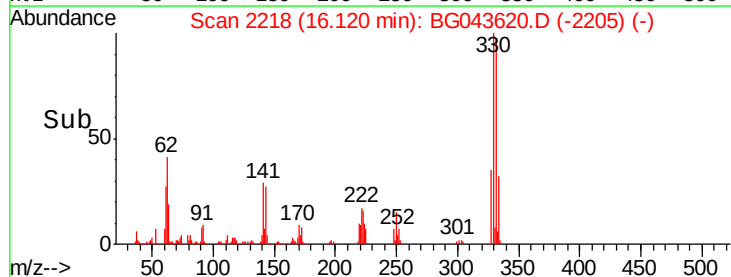
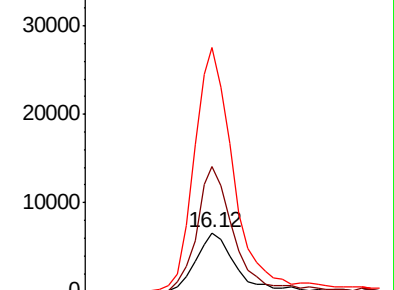
141 415.1 47.5 71.3#

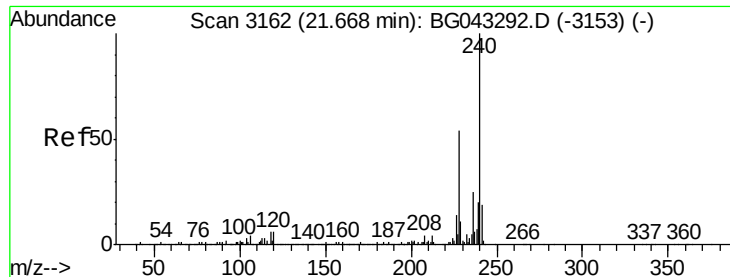


Abundance Ion 248.00 (247.70 to 248.70): E

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: 21.64 min Scan# 3157

Delta R.T. -0.02 min

Lab File: BG043620.D

Acq: 13 Nov 2019 19:59

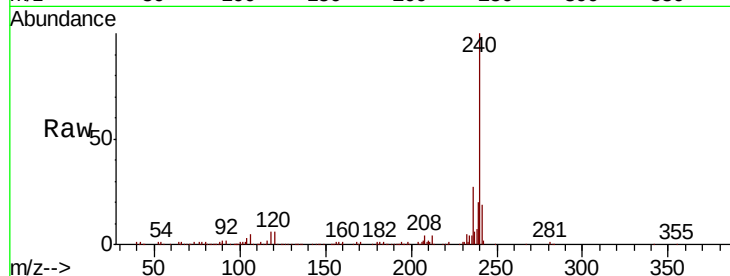
Instrument :

BNA\_G

ClientSampleId :

Tot Ion:240 Resp: 246198

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 240 | 100   |       |       |
| 120 | 6.1   | 4.6   | 6.8   |
| 236 | 26.6  | 19.8  | 29.8  |

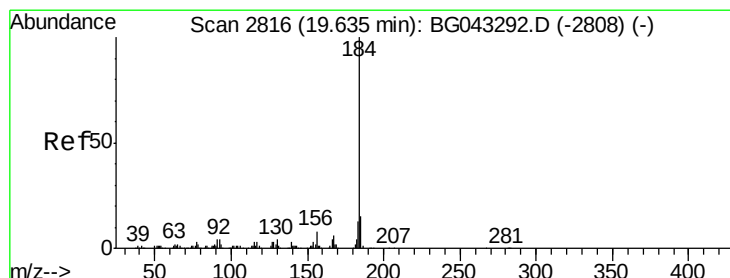
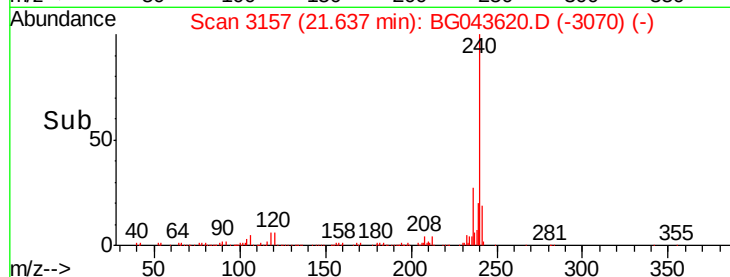
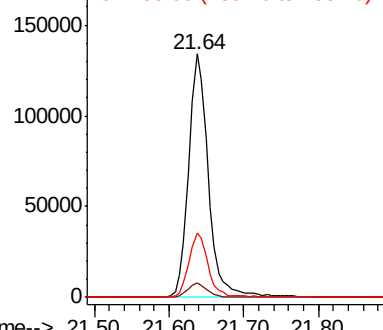


Abundance

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: 3.420 ng

RT: 19.98 min Scan# 2875

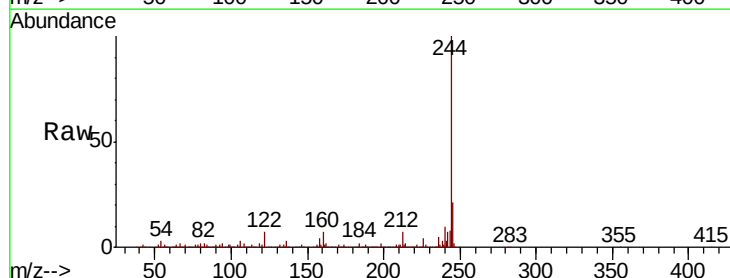
Delta R.T. 0.36 min

Lab File: BG043620.D

Acq: 13 Nov 2019 19:59

Tgt Ion:184 Resp: 16947

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 184 | 100   |       |       |
| 185 | 12.4  | 11.0  | 16.4  |
| 183 | 5.2   | 10.0  | 15.0# |

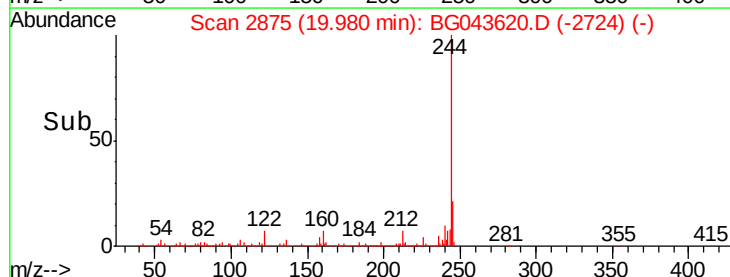
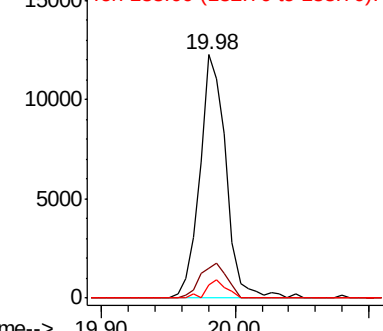


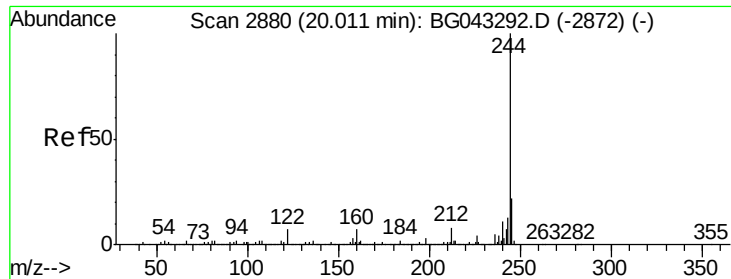
Abundance

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

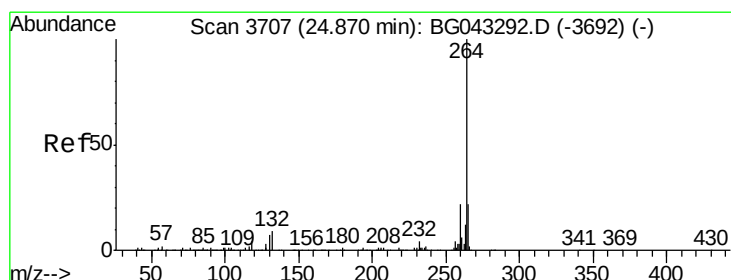
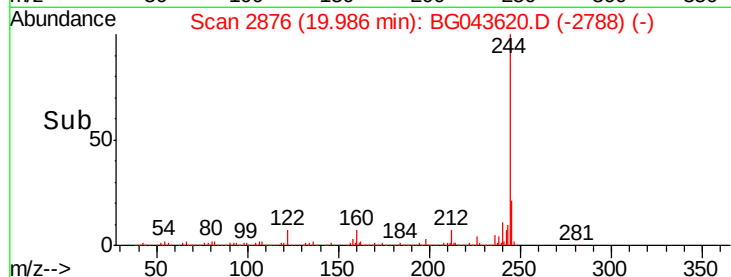
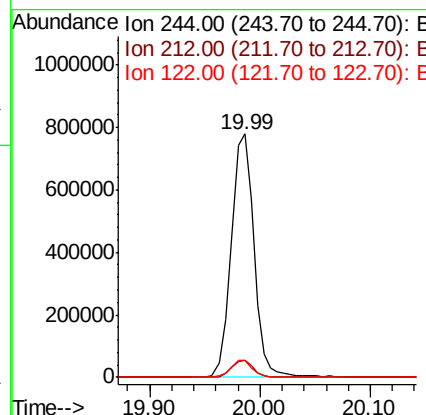
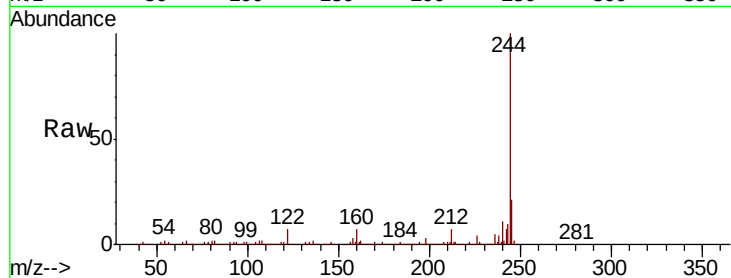




#79  
 Terphenyl-d14  
 Concen: 86.167 ng  
 RT: 19.99 min Scan# 2876  
 Delta R.T. -0.01 min  
 Lab File: BG043620.D  
 Acq: 13 Nov 2019 19:59

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:244 Resp: 1130780  
 Ion Ratio Lower Upper  
 244 100  
 212 7.0 5.8 8.6  
 122 6.8 5.4 8.2



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 24.82 min Scan# 3698  
 Delta R.T. -0.04 min  
 Lab File: BG043620.D  
 Acq: 13 Nov 2019 19:59

Tgt Ion:264 Resp: 292316  
 Ion Ratio Lower Upper  
 264 100  
 260 22.1 17.5 26.3  
 265 21.4 17.4 26.0

