

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG082620\  
 Data File : BG046463.D  
 Acq On : 26 Aug 2020 21:12  
 Operator : CG/JU  
 Sample : L3784-08  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 RO-23

Quant Time: Aug 27 01:33:42 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Aug 25 18:00:34 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.93  | 152  | 61051    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.73 | 136  | 242252   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.56 | 164  | 160669   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.31 | 188  | 442250   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.55 | 240  | 558500   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 24.66 | 264  | 566115   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.52  | 112  | 380569   | 110.41 | ng    | 0.00     |
| 7) Phenol-d6                | 7.11  | 99   | 439237   | 89.89  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.09  | 82   | 362285   | 85.47  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.05 | 330  | 274656   | 126.17 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.18 | 172  | 909433   | 86.41  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.92 | 244  | 1918696  | 73.11  | ng    | 0.00     |

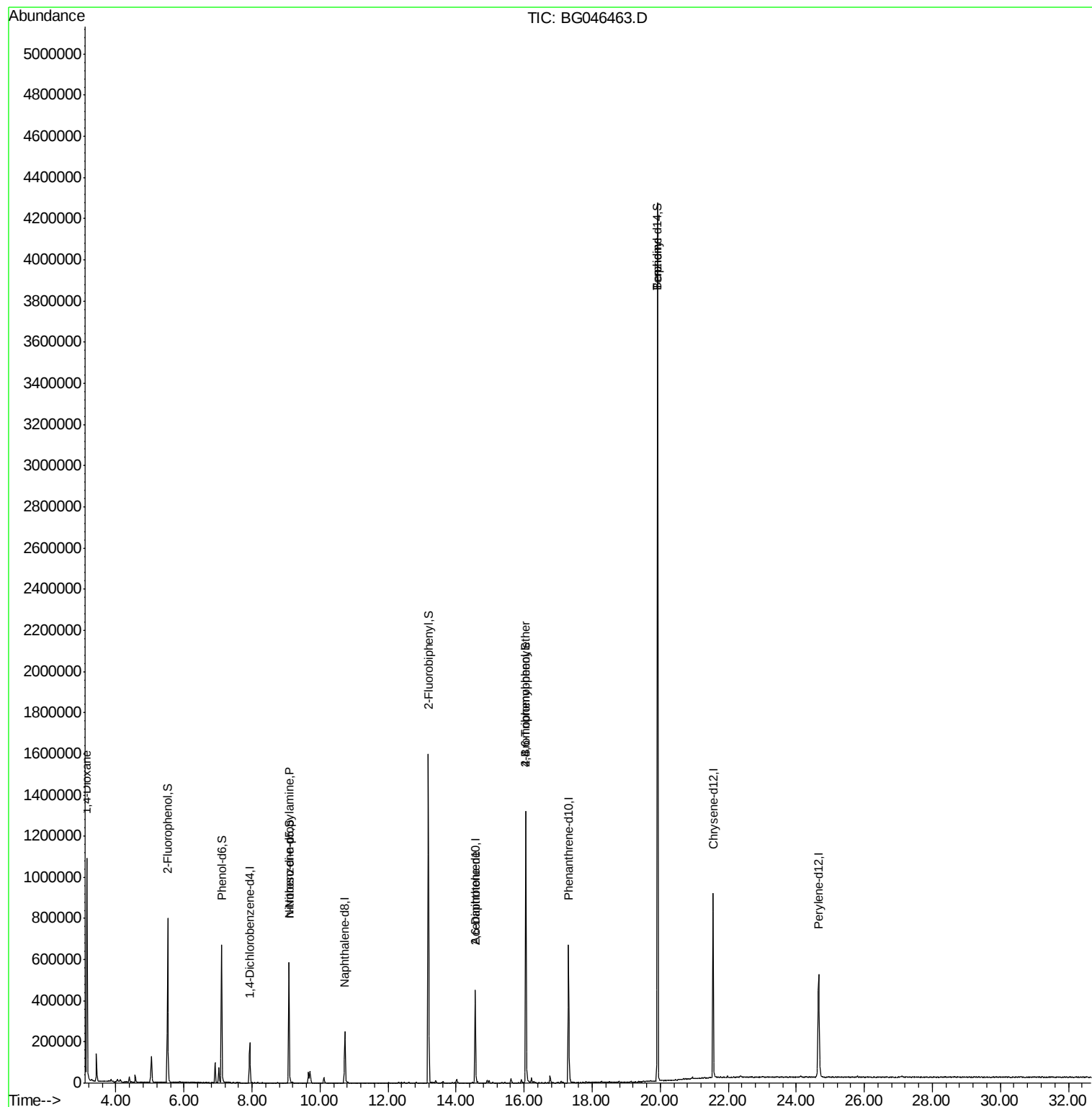
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 2) 1,4-Dioxane                 | 3.15  | 88   | 10273    | 7.164  | ng    | # 1    |
| 19) n-Nitroso-di-n-propylamine | 9.09  | 70   | 45388    | 15.529 | ng    | # 75   |
| 51) 2,6-Dinitrotoluene         | 14.56 | 165  | 21543    | 7.862  | ng    | # 32   |
| 67) 4-Bromophenyl-phenylether  | 16.05 | 248  | 20672    | 4.006  | ng    | # 1    |
| 77) Benzidine                  | 19.92 | 184  | 30216    | 2.328  | ng    | # 94   |

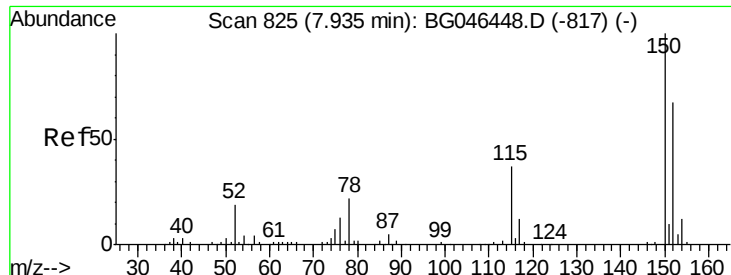
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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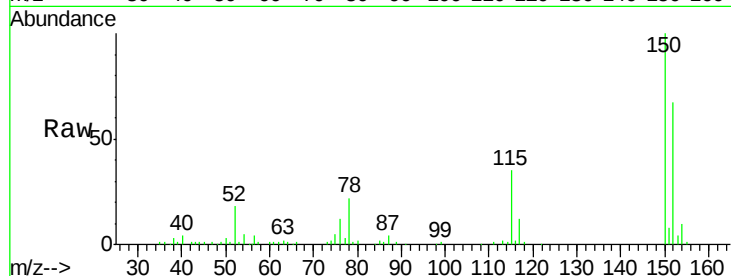


#1

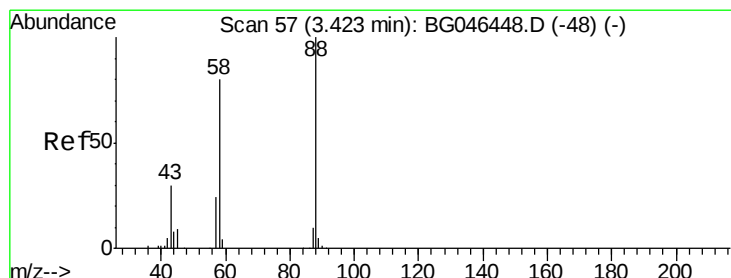
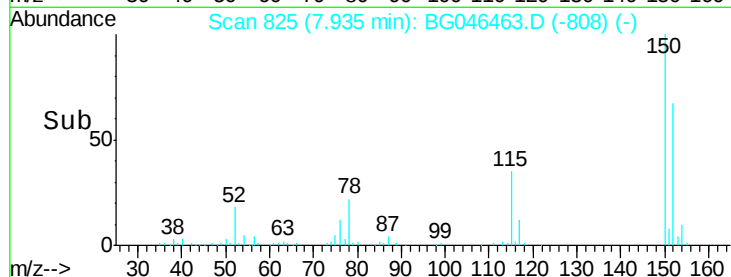
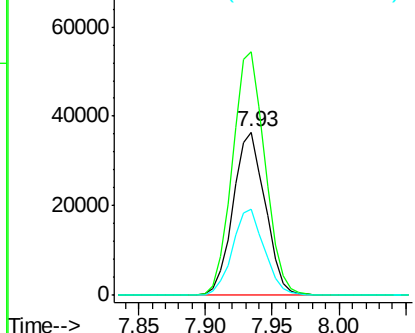
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.93 min Scan# 825  
Delta R.T. -0.00 min  
Lab File: BG046463.D  
Acq: 26 Aug 2020 21:12

Instrument :  
BNA\_G  
ClientSampleId :  
RO-23

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 148.8 | 119.5 | 179.3 |
| 115     | 52.8  | 44.3  | 66.5  |



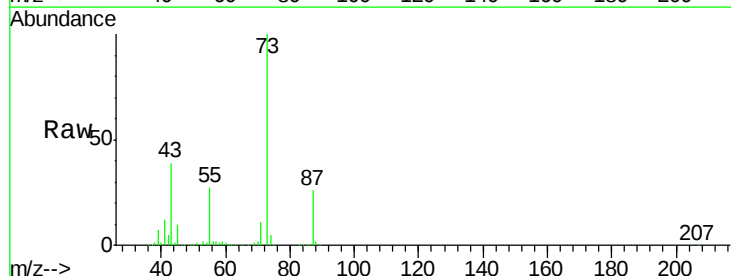
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



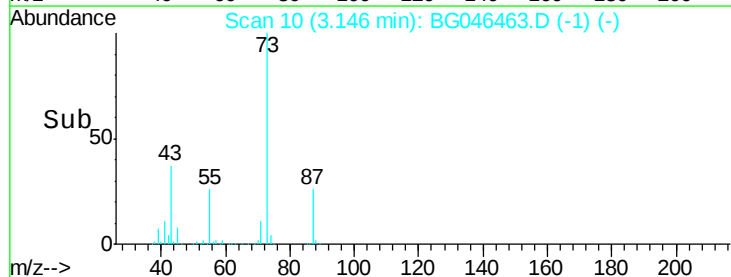
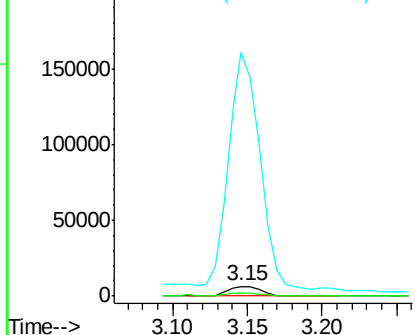
#2

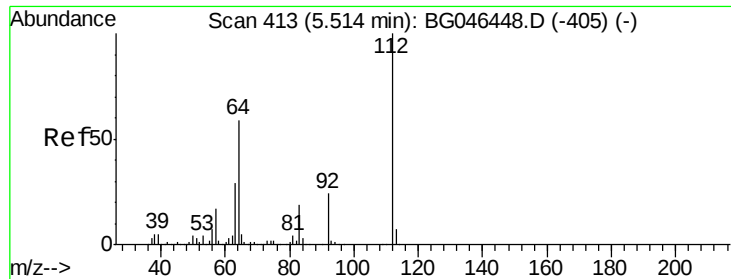
1,4-Dioxane  
Concen: 7.164 ng  
RT: 3.15 min Scan# 10  
Delta R.T. -0.28 min  
Lab File: BG046463.D  
Acq: 26 Aug 2020 21:12

| Tgt Ion | Ratio  | Lower | Upper |
|---------|--------|-------|-------|
| 88      | 100    |       |       |
| 58      | 28.6   | 61.4  | 92.2# |
| 43      | 2217.5 | 21.6  | 32.4# |



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: 110.409 ng

RT: 5.52 min Scan# 414

Delta R.T. 0.01 min

Lab File: BG046463.D

Acq: 26 Aug 2020 21:12

Instrument :

BNA\_G

ClientSampleId :

RO-23

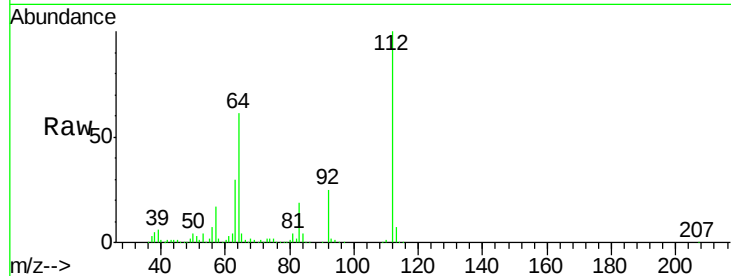
Tot Ion:112 Resp: 380569

Ion Ratio Lower Upper

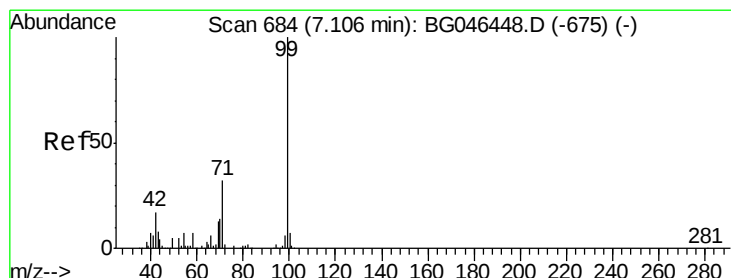
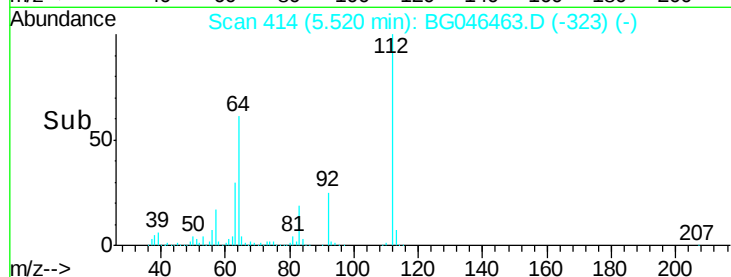
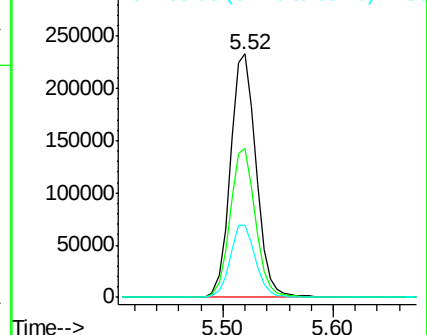
112 100

64 61.1 47.0 70.6

63 29.7 23.5 35.3



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: 89.891 ng

RT: 7.11 min Scan# 684

Delta R.T. -0.00 min

Lab File: BG046463.D

Acq: 26 Aug 2020 21:12

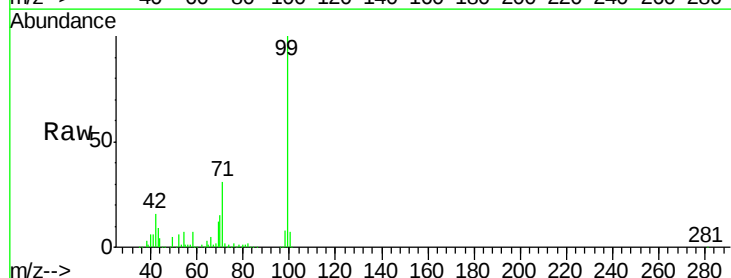
Tgt Ion: 99 Resp: 439237

Ion Ratio Lower Upper

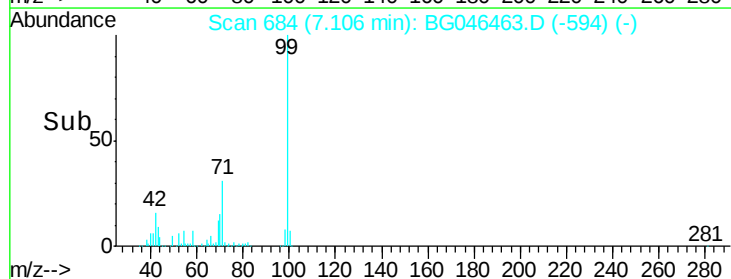
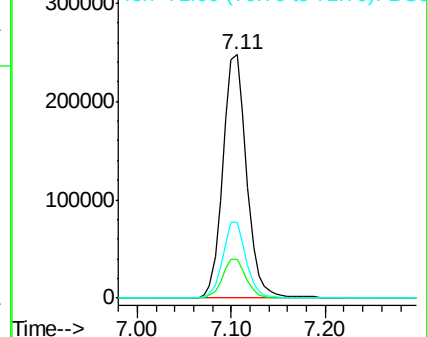
99 100

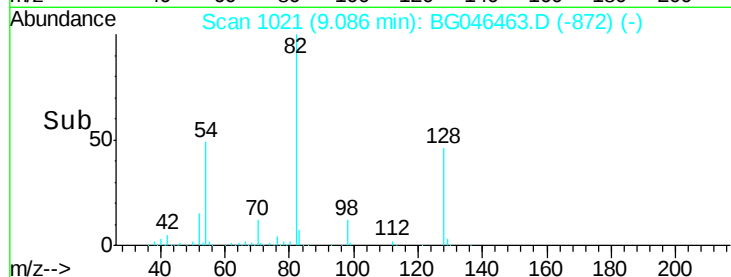
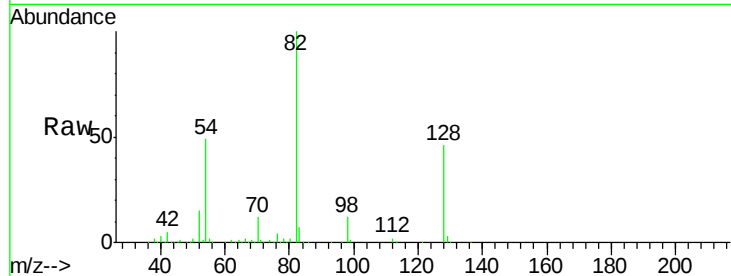
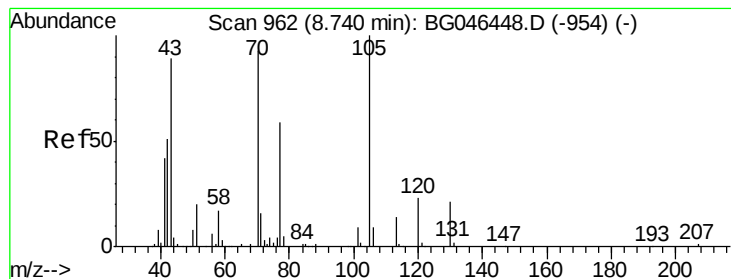
42 15.9 13.3 19.9

71 31.1 25.3 37.9



Abundance Ion 99.00 (98.70 to 99.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 71.00 (70.70 to 71.70): BGC





#19

n-Nitroso-di-n-propylamine

Concen: 15.529 ng

RT: 9.09 min Scan# 1021

Delta R.T. 0.35 min

Lab File: BG046463.D

Acq: 26 Aug 2020 21:12

Instrument :

BNA\_G

ClientSampleId :

RO-23

Tot Ion: 70 Resp: 45388

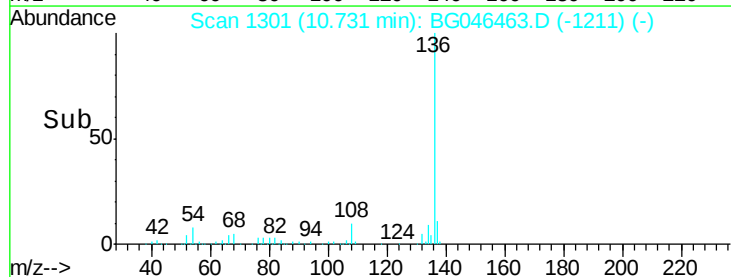
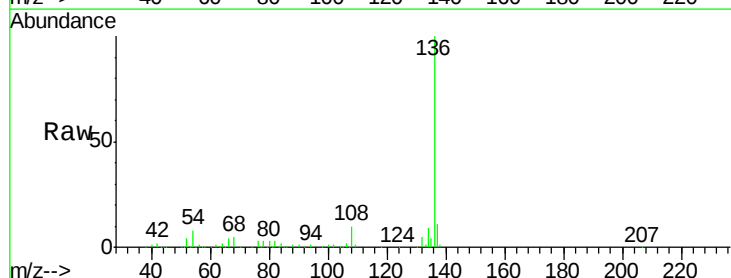
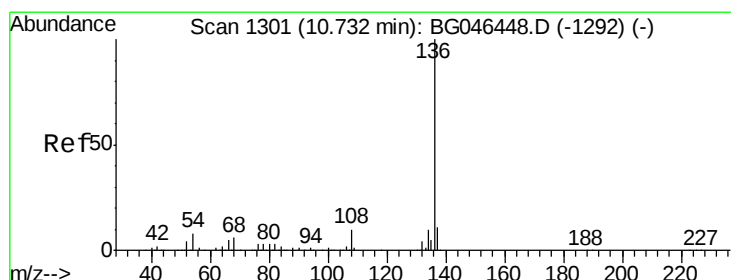
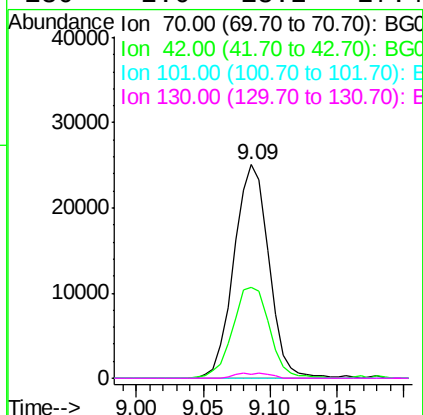
Ion Ratio Lower Upper

70 100

42 42.5 44.2 66.2#

101 0.0 7.8 11.8#

130 2.0 18.2 27.4#



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.73 min Scan# 1301

Delta R.T. -0.00 min

Lab File: BG046463.D

Acq: 26 Aug 2020 21:12

Tgt Ion: 136 Resp: 242252

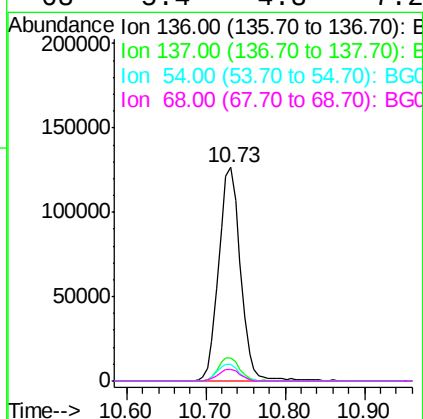
Ion Ratio Lower Upper

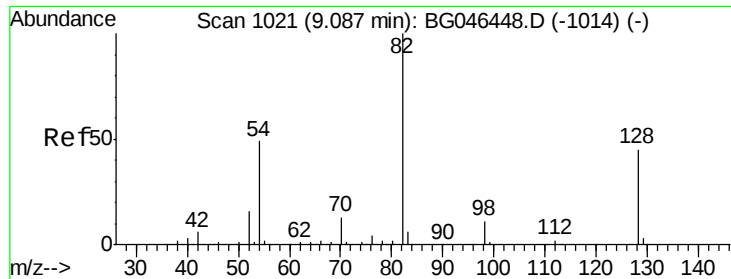
136 100

137 10.9 8.8 13.2

54 7.8 6.1 9.1

68 5.4 4.8 7.2

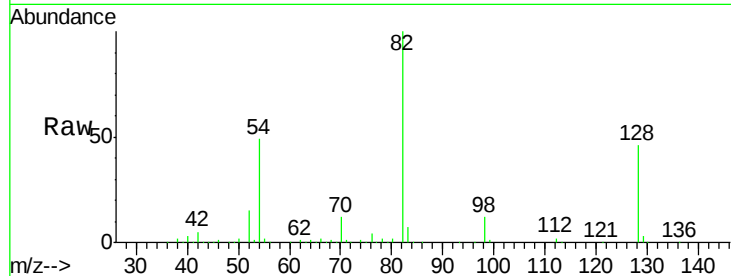




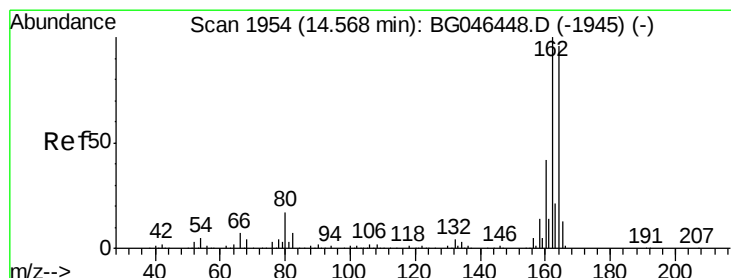
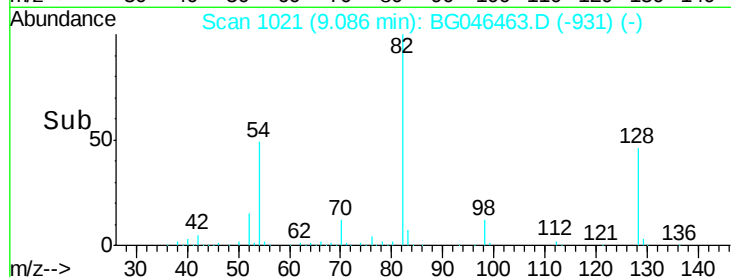
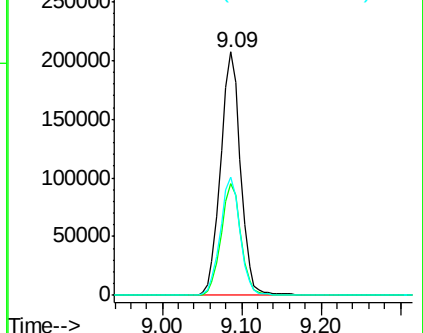
#23  
 Nitrobenzene-d5  
 Concen: 85.475 ng  
 RT: 9.09 min Scan# 1021  
 Delta R.T. -0.00 min  
 Lab File: BG046463.D  
 Acq: 26 Aug 2020 21:12

Instrument :  
 BNA\_G  
 ClientSampled :  
 RO-23

| Tot Ion   | 82    | Resp  | 362285 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 45.9  | 35.7  | 53.5   |
| 54        | 48.8  | 39.4  | 59.0   |

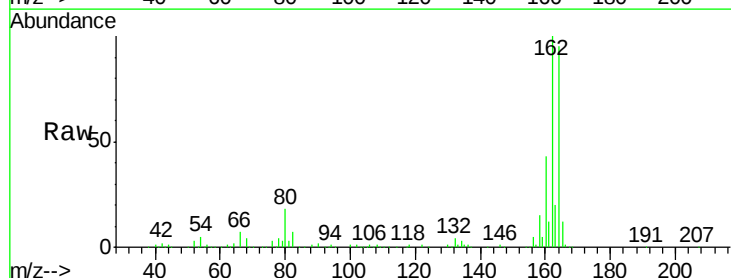


Abundance Ion 82.00 (81.70 to 82.70): BGC  
 Ion 128.00 (127.70 to 128.70): BGC  
 Ion 54.00 (53.70 to 54.70): BGC

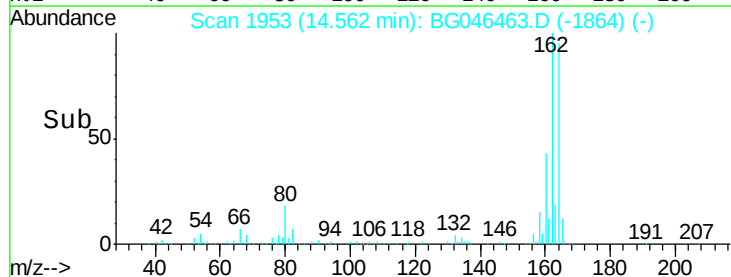
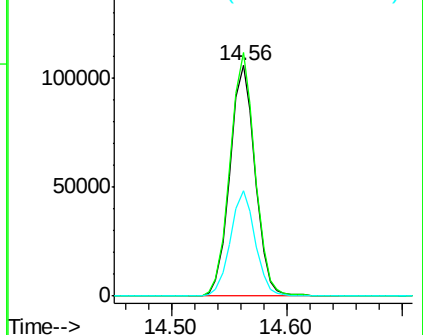


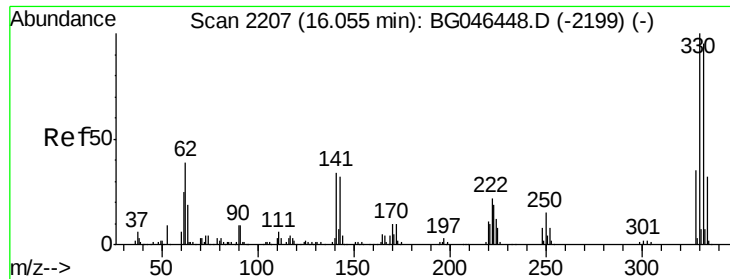
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.56 min Scan# 1953  
 Delta R.T. -0.01 min  
 Lab File: BG046463.D  
 Acq: 26 Aug 2020 21:12

| Tgt Ion   | 164   | Resp  | 160669 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 105.6 | 83.3  | 124.9  |
| 160       | 45.6  | 35.0  | 52.6   |



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

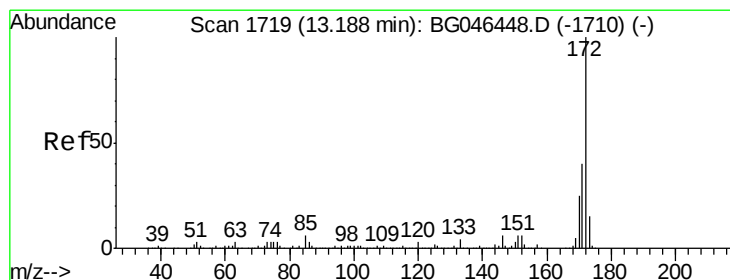
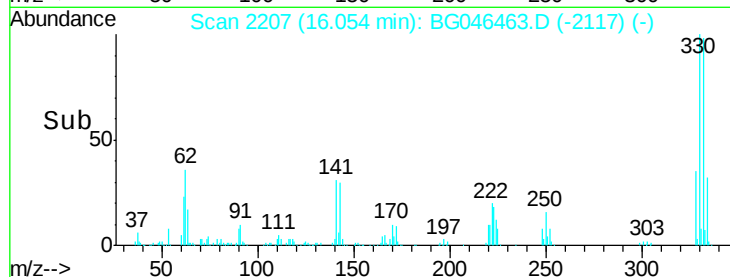
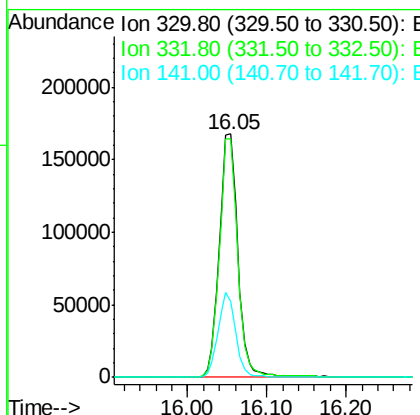
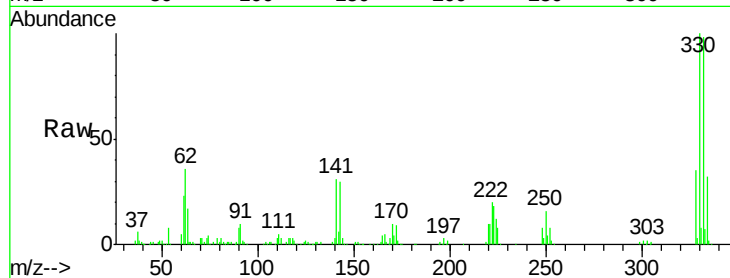




#42  
 2,4,6-Tribromophenol  
 Concen: 126.165 ng  
 RT: 16.05 min Scan# 2207  
 Delta R.T. -0.00 min  
 Lab File: BG046463.D  
 Acq: 26 Aug 2020 21:12

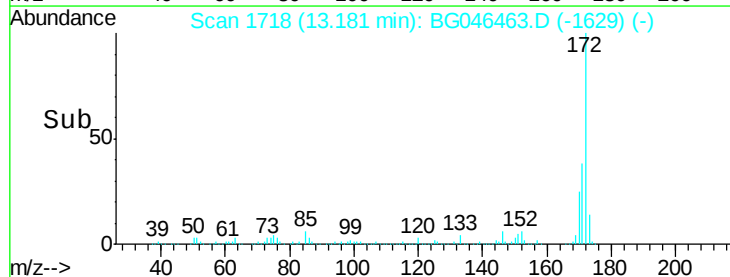
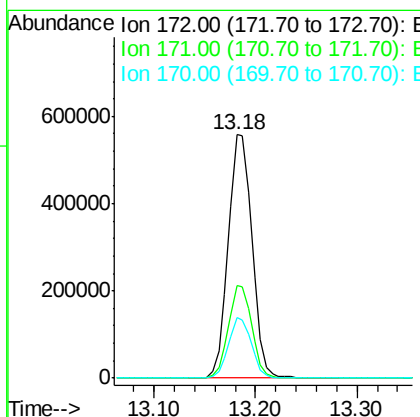
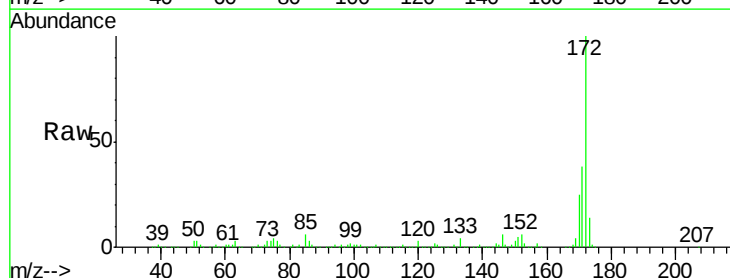
Instrument :  
 BNA\_G  
 ClientSampleId :  
 RO-23

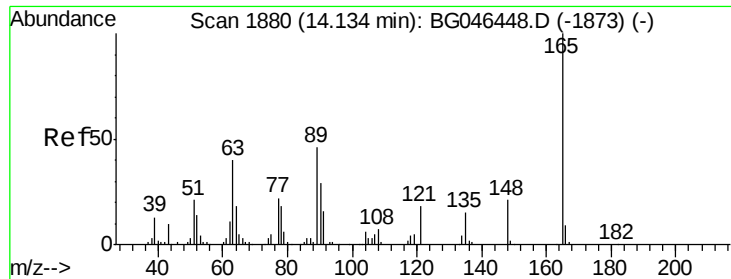
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.5  | 76.1  | 114.1 |
| 141     | 33.0  | 26.1  | 39.1  |



#45  
 2-Fluorobiphenyl  
 Concen: 86.408 ng  
 RT: 13.18 min Scan# 1718  
 Delta R.T. -0.01 min  
 Lab File: BG046463.D  
 Acq: 26 Aug 2020 21:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.8  | 31.8  | 47.6  |
| 170     | 24.8  | 20.3  | 30.5  |





#51

2,6-Dinitrotoluene

Concen: 7.862 ng

RT: 14.56 min Scan# 1953

Delta R.T. 0.43 min

Lab File: BG046463.D

Acq: 26 Aug 2020 21:12

Instrument :

BNA\_G

ClientSampleId :

RO-23

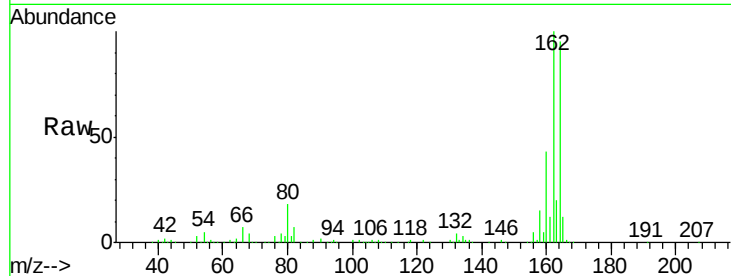
Tot Ion:165 Resp: 21543

Ion Ratio Lower Upper

165 100

63 1.2 34.2 51.4#

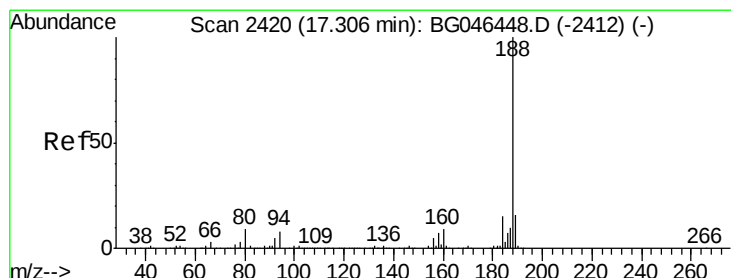
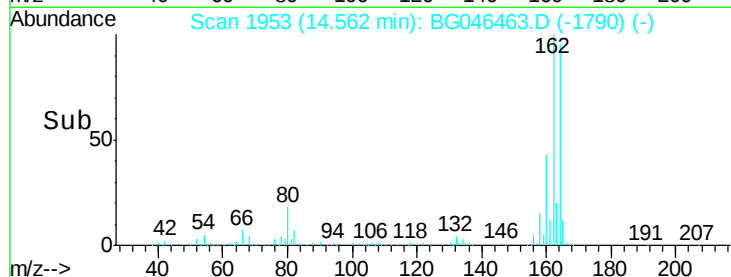
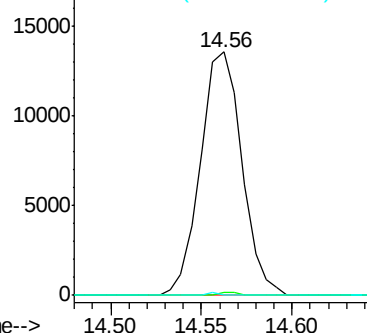
89 0.0 37.0 55.4#



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



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.31 min Scan# 2420

Delta R.T. -0.00 min

Lab File: BG046463.D

Acq: 26 Aug 2020 21:12

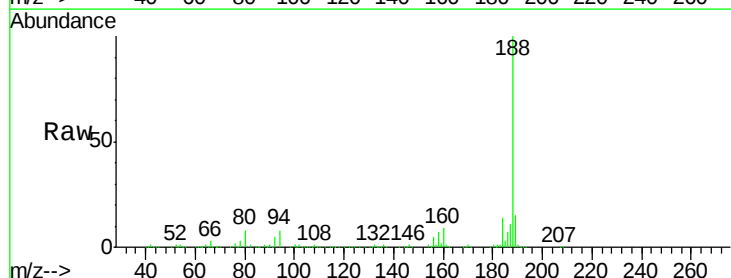
Tgt Ion:188 Resp: 442250

Ion Ratio Lower Upper

188 100

94 7.6 6.3 9.5

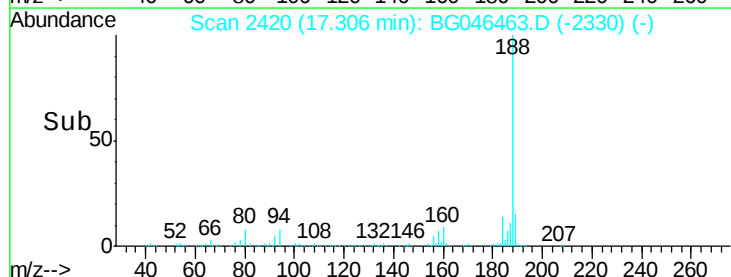
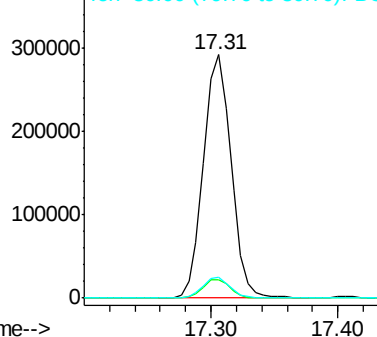
80 8.4 6.9 10.3

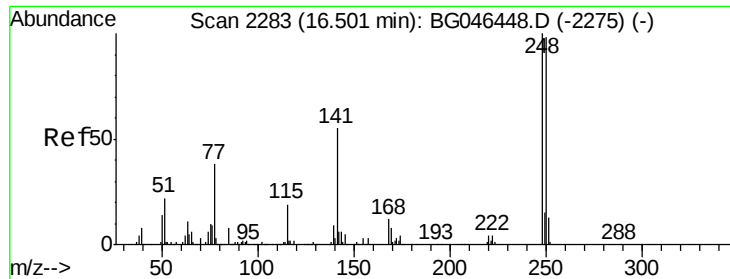


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

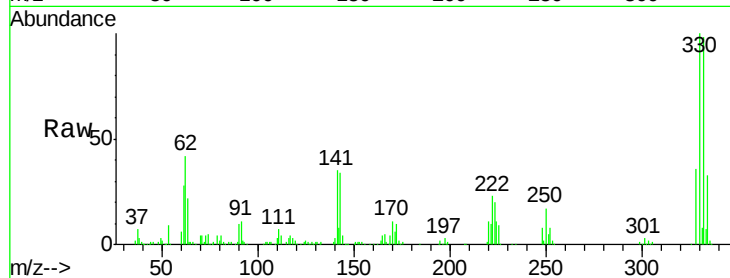




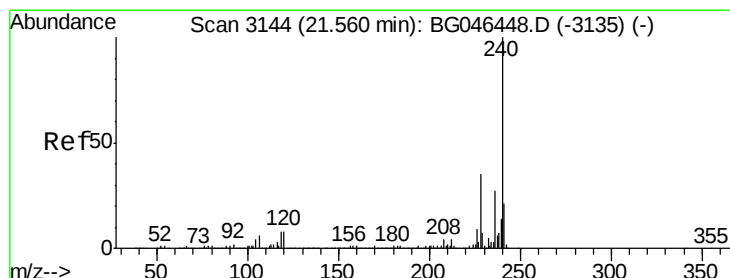
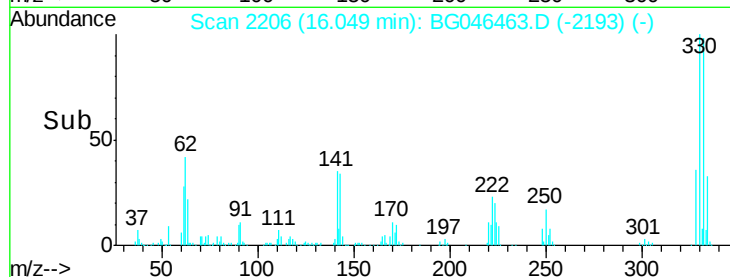
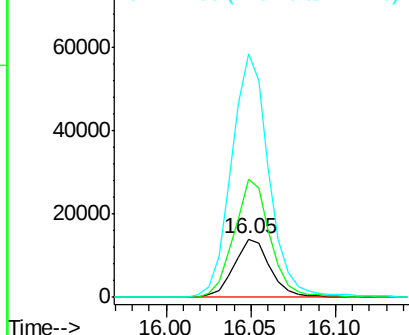
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.006 ng  
 RT: 16.05 min Scan# 2206  
 Delta R.T. -0.45 min  
 Lab File: BG046463.D  
 Acq: 26 Aug 2020 21:12

Instrument :  
 BNA\_G  
 ClientSampleId :  
 RO-23

Tot Ion:248 Resp: 20672  
 Ion Ratio Lower Upper  
 248 100  
 250 201.9 78.6 118.0#  
 141 417.0 43.9 65.9#

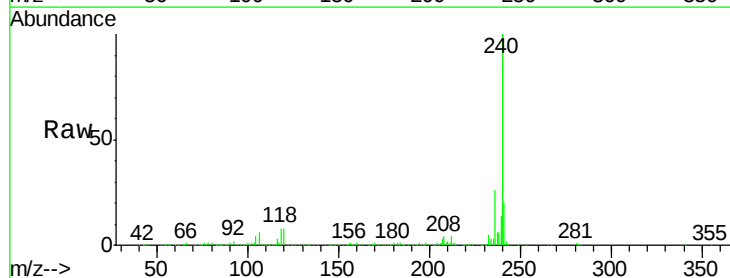


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

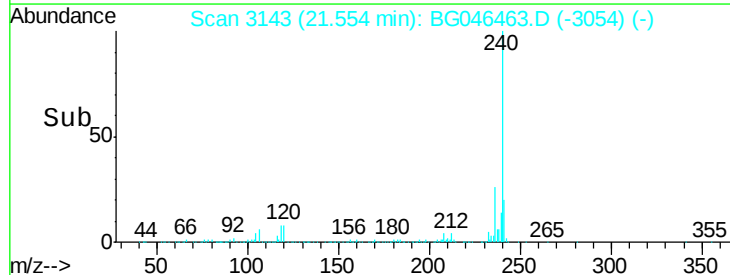
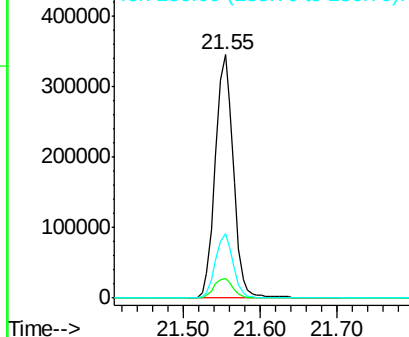


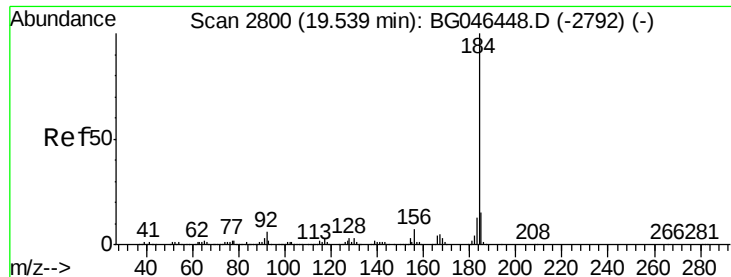
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.55 min Scan# 3143  
 Delta R.T. -0.01 min  
 Lab File: BG046463.D  
 Acq: 26 Aug 2020 21:12

Tgt Ion:240 Resp: 558500  
 Ion Ratio Lower Upper  
 240 100  
 120 8.0 6.6 10.0  
 236 26.5 21.4 32.2



Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 2.328 ng

RT: 19.92 min Scan# 2865

Delta R.T. 0.38 min

Lab File: BG046463.D

Acq: 26 Aug 2020 21:12

Instrument :

BNA\_G

ClientSampleId :

RO-23

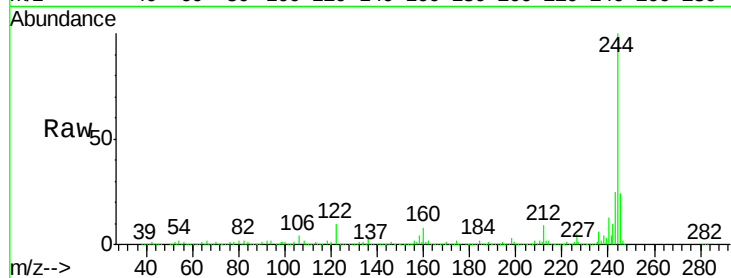
Tot Ion:184 Resp: 30216

Ion Ratio Lower Upper

184 100

185 19.2 11.8 17.8#

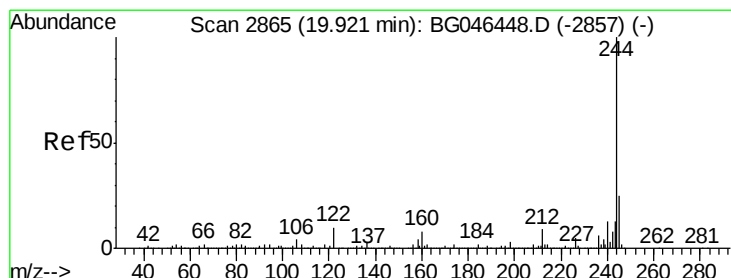
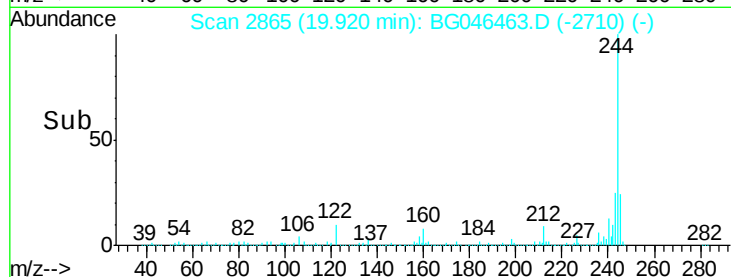
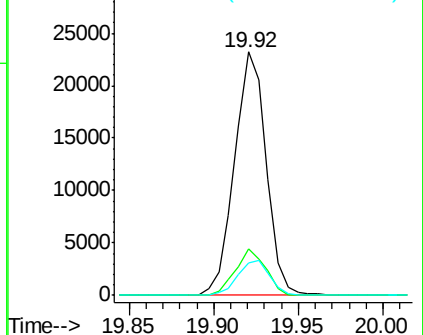
183 13.5 10.7 16.1



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: 73.112 ng

RT: 19.92 min Scan# 2865

Delta R.T. -0.00 min

Lab File: BG046463.D

Acq: 26 Aug 2020 21:12

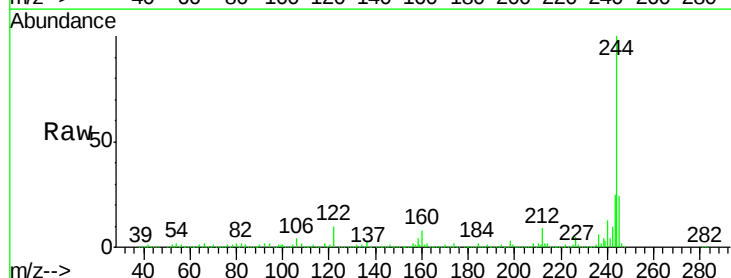
Tgt Ion:244 Resp: 1918696

Ion Ratio Lower Upper

244 100

212 8.6 6.9 10.3

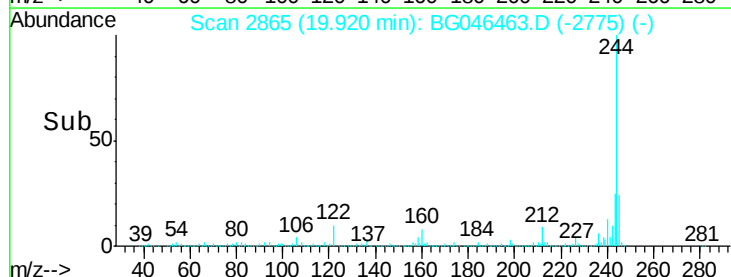
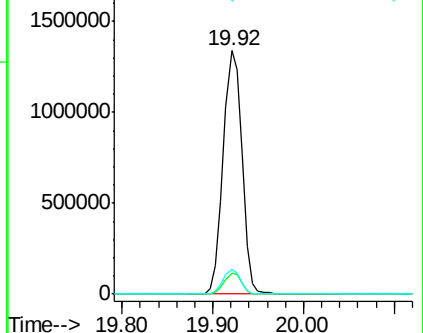
122 10.4 8.2 12.4

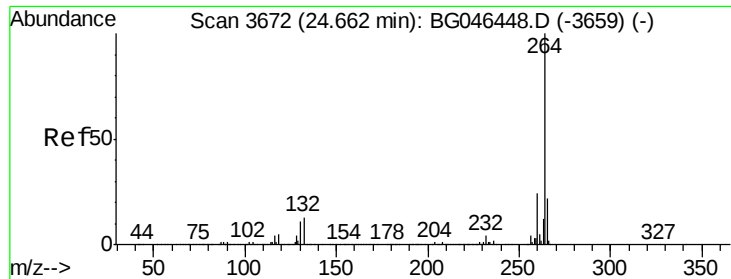


Abundance Ion 244.00 (243.70 to 244.70): E

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: 24.66 min Scan# 3671  
Delta R.T. -0.01 min  
Lab File: BG046463.D  
Acq: 26 Aug 2020 21:12

Instrument :  
BNA\_G  
ClientSampleId :  
RO-23

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.7  | 19.2  | 28.8  |
| 265     | 21.6  | 17.9  | 26.9  |

