

Data Path : Z:\HPCHEM1\BNA G\DATA\BG032718\  
 Data File : BG033371.D  
 Acq On : 27 Mar 2018 20:50  
 Operator : SJ/JU  
 Sample : J2038-05  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Mar 28 07:56:22 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 23 15:11:46 2018  
 Response via : Initial Calibration

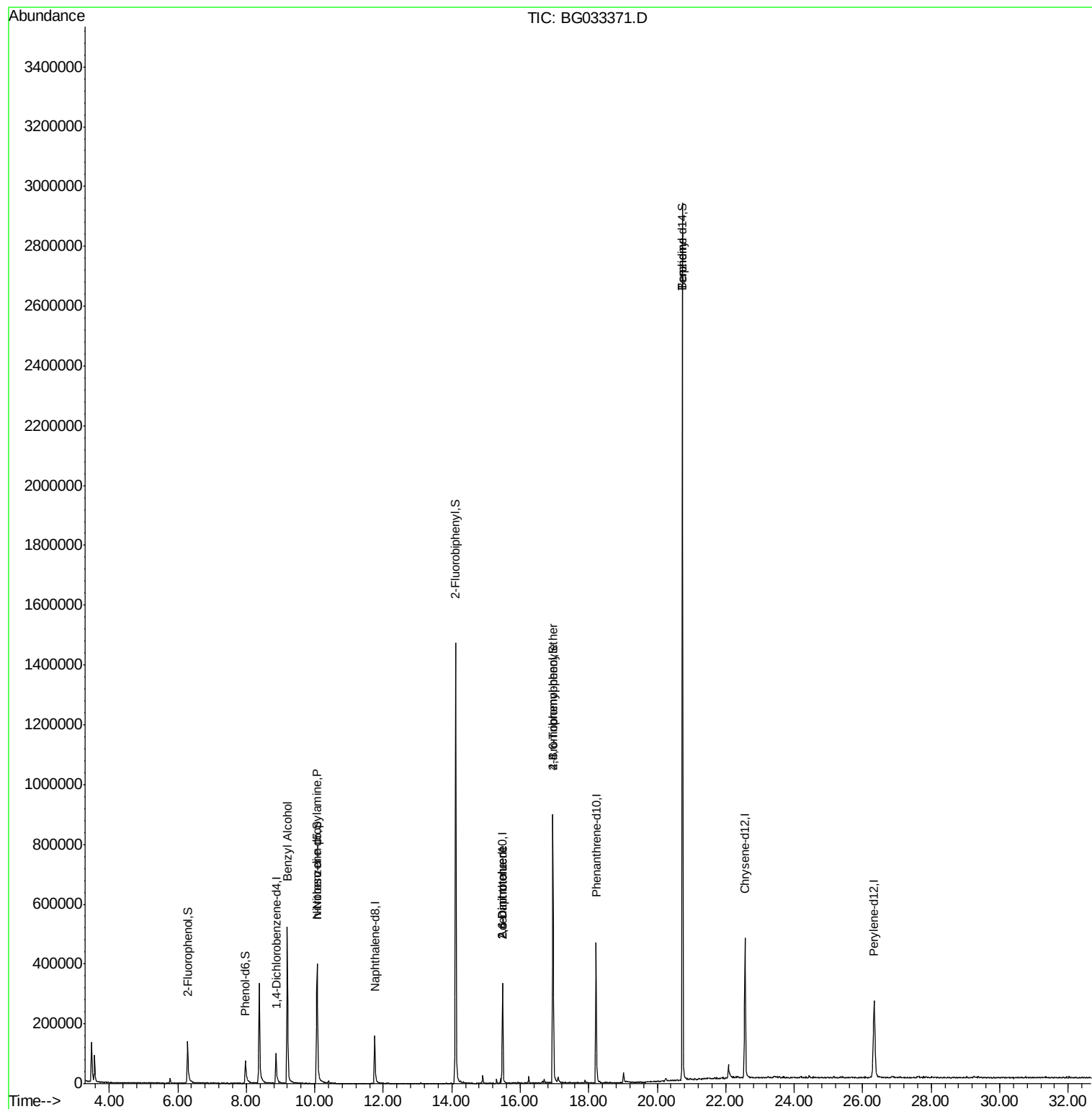
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.87  | 152  | 39417    | 20.00  | ng    | -0.03    |
| 21) Naphthalene-d8             | 11.75 | 136  | 163051   | 20.00  | ng    | -0.03    |
| 38) Acenaphthene-d10           | 15.48 | 164  | 128476   | 20.00  | ng    | -0.03    |
| 63) Phenanthrene-d10           | 18.21 | 188  | 338610   | 20.00  | ng    | -0.03    |
| 75) Chrysene-d12               | 22.56 | 240  | 351730   | 20.00  | ng    | -0.04    |
| 86) Perylene-d12               | 26.33 | 264  | 375976   | 20.00  | ng    | -0.06    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.29  | 112  | 83051    | 39.51  | ng    | -0.02    |
| 7) Phenol-d6                   | 7.98  | 99   | 69957    | 19.37  | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 10.06 | 82   | 332886   | 93.80  | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol       | 16.95 | 330  | 186203   | 96.90  | ng    | -0.03    |
| 44) 2-Fluorobiphenyl           | 14.11 | 172  | 860770   | 96.72  | ng    | -0.03    |
| 78) Terphenyl-d14              | 20.74 | 244  | 1494557  | 90.87  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 9.20  | 79   | 5926     | 2.084  | ng    | # 45     |
| 19) n-Nitroso-di-n-propylamine | 10.07 | 70   | 44581    | 16.844 | ng    | # 72     |
| 50) 2,6-Dinitrotoluene         | 15.48 | 165  | 16590    | 7.257  | ng    | # 20     |
| 56) 2,4-Dinitrotoluene         | 15.48 | 165  | 16590    | 4.928  | ng    | # 18     |
| 66) 4-Bromophenyl-phenylether  | 16.95 | 248  | 14215    | 3.575  | ng    | # 1      |
| 76) Benzidine                  | 20.73 | 184  | 24233    | 2.541  | ng    | # 92     |

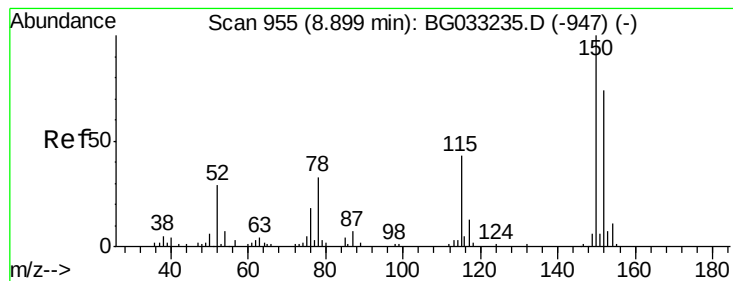
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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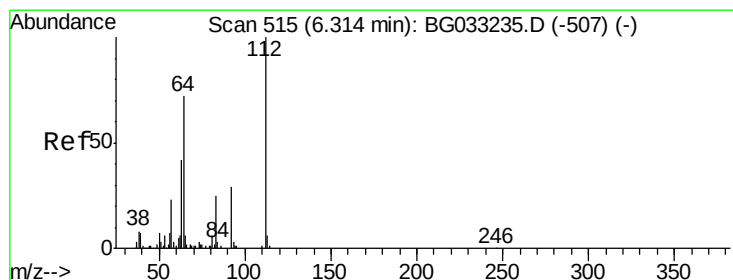
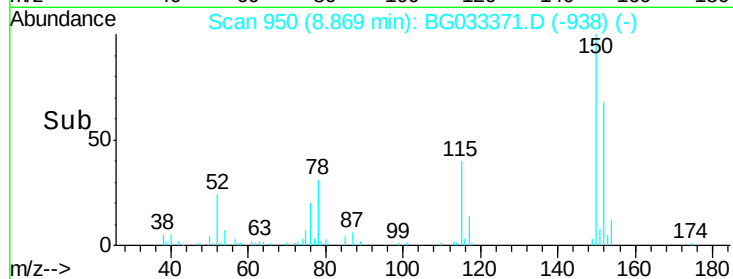
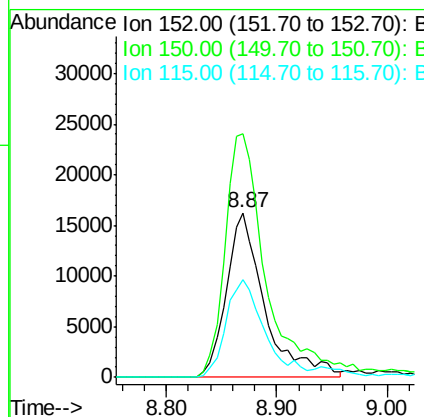
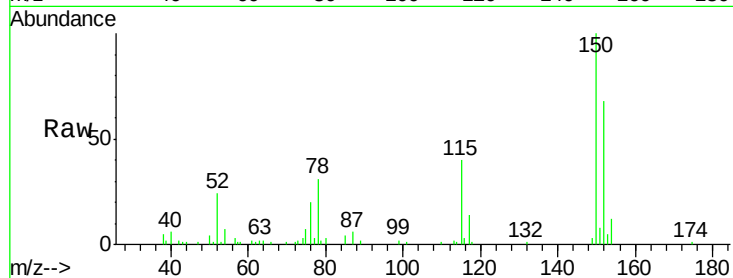




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.87 min Scan# 950  
 Delta R.T. -0.03 min  
 Lab File: BG033371.D  
 Acq: 27 Mar 2018 20:50

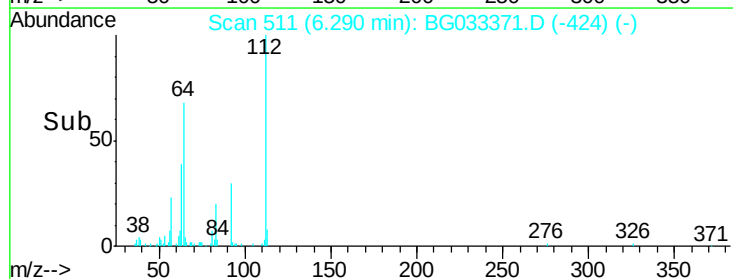
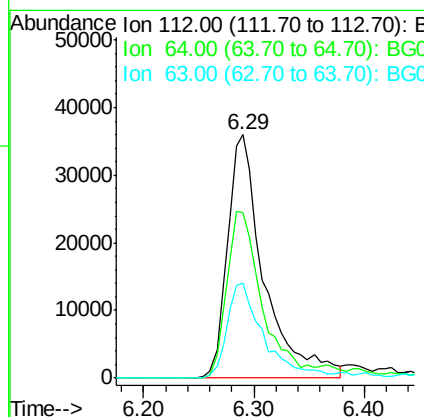
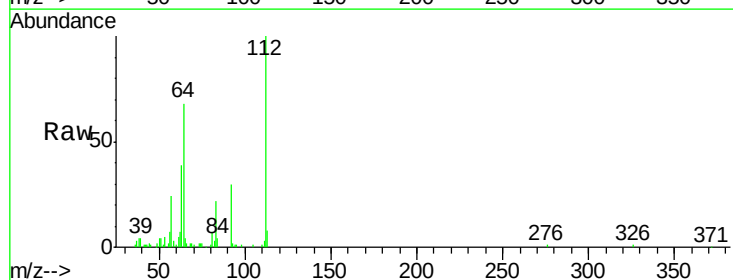
Instrument :  
 BNA\_G  
 ClientSampleId :

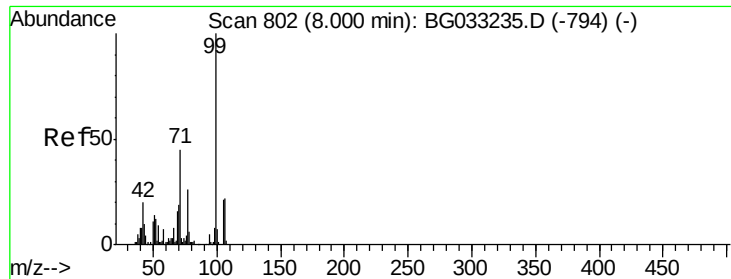
Tot Ion:152 Resp: 39417  
 Ion Ratio Lower Upper  
 152 100  
 150 148.1 126.6 189.8  
 115 59.6 53.0 79.4



#5  
 2-Fluorophenol  
 Concen: 39.508 ng  
 RT: 6.29 min Scan# 511  
 Delta R.T. -0.02 min  
 Lab File: BG033371.D  
 Acq: 27 Mar 2018 20:50

Tgt Ion:112 Resp: 83051  
 Ion Ratio Lower Upper  
 112 100  
 64 68.2 56.3 84.5  
 63 39.1 30.1 45.1





#7

Phenol-d6

Concen: 19.369 ng

RT: 7.98 min Scan# 798

Delta R.T. -0.02 min

Lab File: BG033371.D

Acq: 27 Mar 2018 20:50

Instrument :

BNA\_G

ClientSampleId :

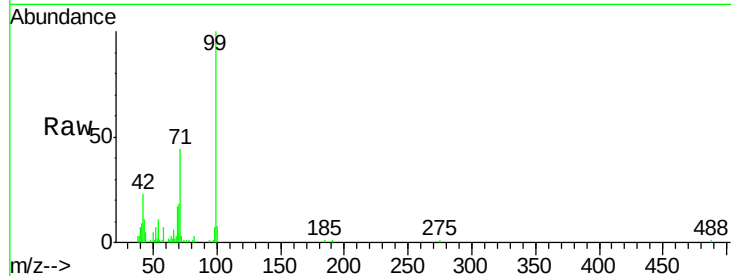
Tot Ion: 99 Resp: 69957

Ion Ratio Lower Upper

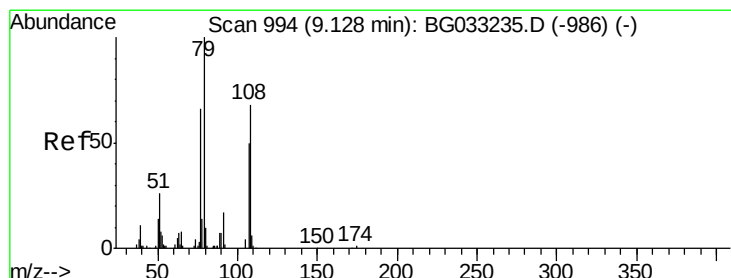
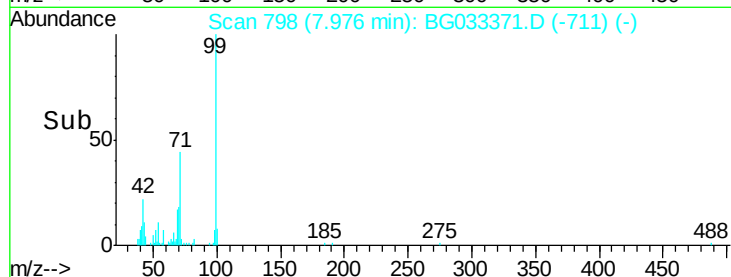
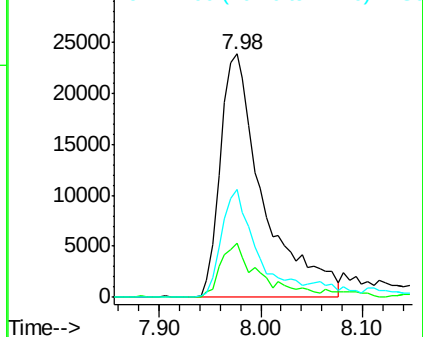
99 100

42 22.5 14.1 21.1#

71 44.2 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: 2.084 ng

RT: 9.20 min Scan# 1006

Delta R.T. 0.07 min

Lab File: BG033371.D

Acq: 27 Mar 2018 20:50

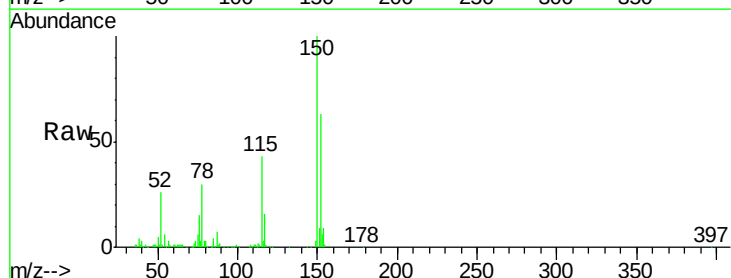
Tgt Ion: 79 Resp: 5926

Ion Ratio Lower Upper

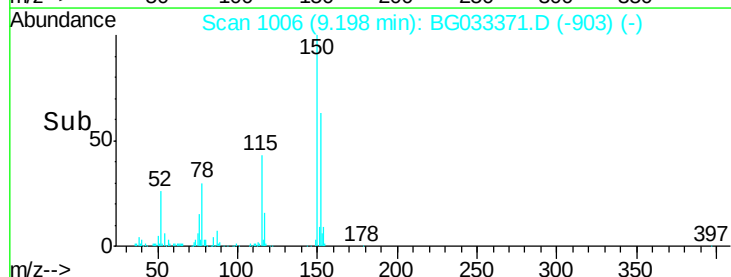
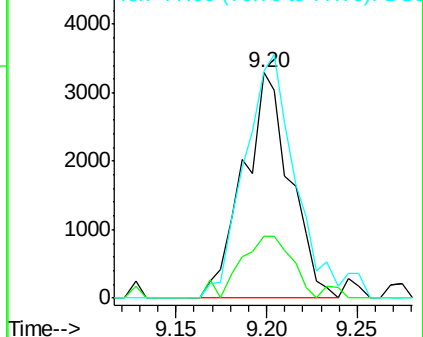
79 100

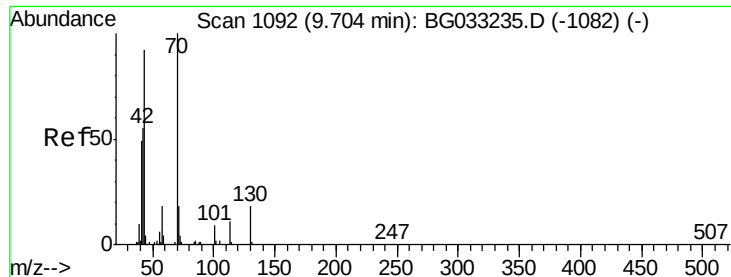
108 27.6 57.2 85.8#

77 100.7 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

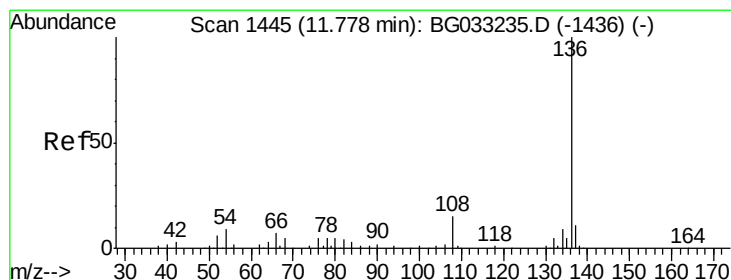
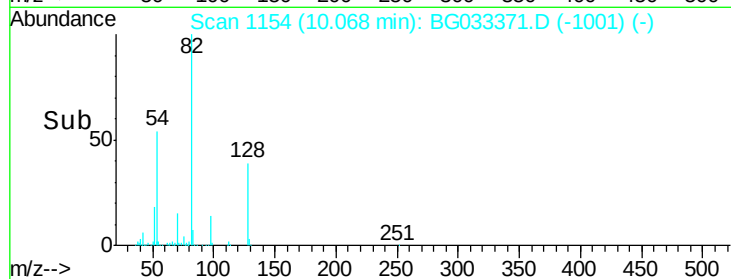
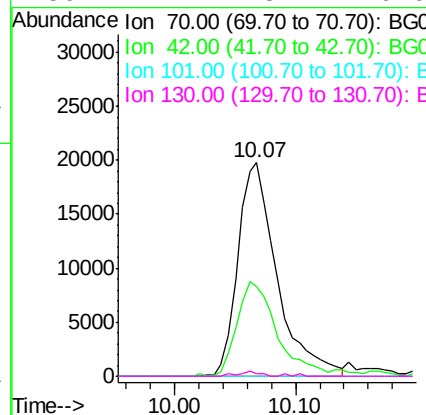
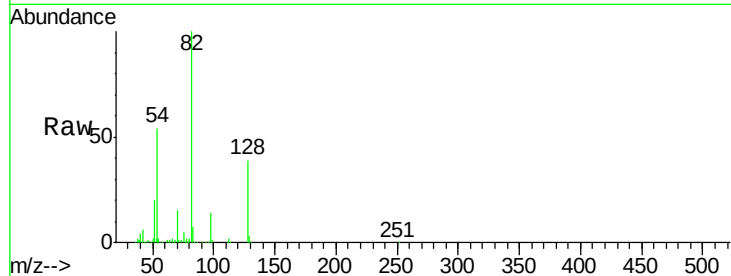




#19  
n-Nitroso-di-n-propylamine  
Concen: 16.844 ng  
RT: 10.07 min Scan# 1154  
Delta R.T. 0.37 min  
Lab File: BG033371.D  
Acq: 27 Mar 2018 20:50

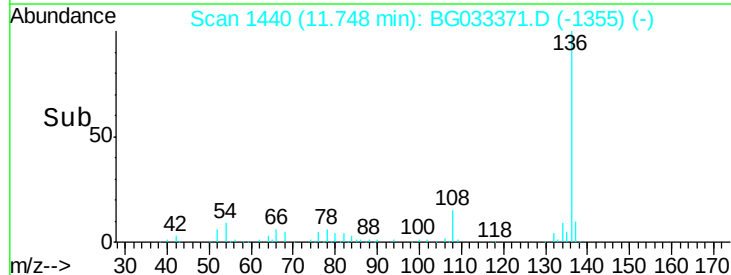
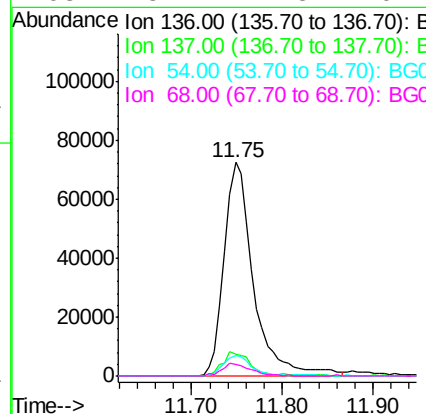
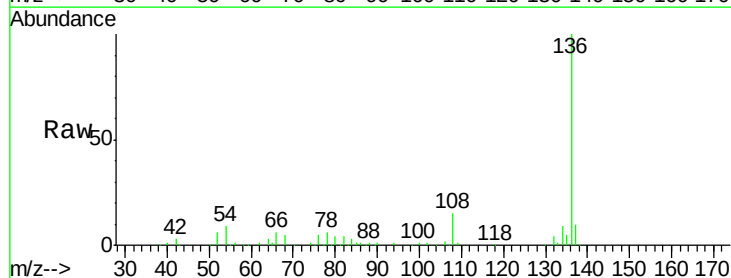
Instrument :  
BNA\_G  
ClientSampleId :

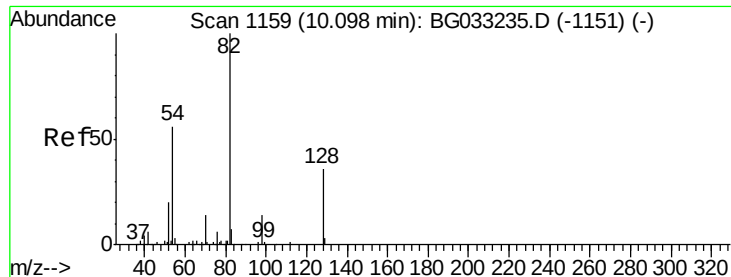
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 70    | Resp: | 44581 |
| Ion      | Ratio | Lower | Upper |
| 70       | 100   |       |       |
| 42       | 42.1  | 49.1  | 73.7# |
| 101      | 0.0   | 8.5   | 12.7# |
| 130      | 1.4   | 13.4  | 20.0# |



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.75 min Scan# 1440  
Delta R.T. -0.03 min  
Lab File: BG033371.D  
Acq: 27 Mar 2018 20:50

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 163051 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.5  | 9.2   | 13.8   |
| 54       | 9.5   | 10.3  | 15.5#  |
| 68       | 5.4   | 4.5   | 6.7    |





#23

Nitrobenzene-d5

Concen: 93.800 ng

RT: 10.06 min Scan# 1153

Delta R.T. -0.03 min

Lab File: BG033371.D

Acq: 27 Mar 2018 20:50

Instrument :

BNA\_G

ClientSampleId :

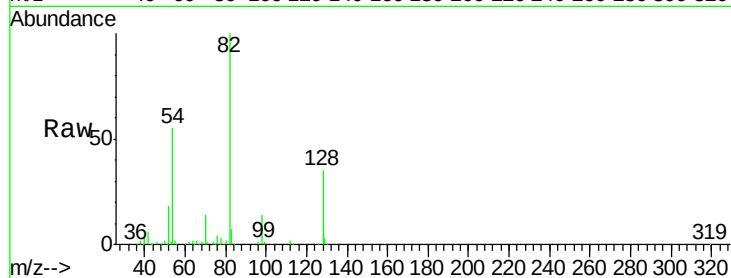
Tot Ion: 82 Resp: 332886

Ion Ratio Lower Upper

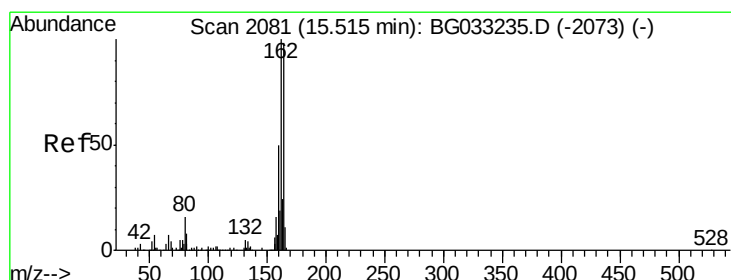
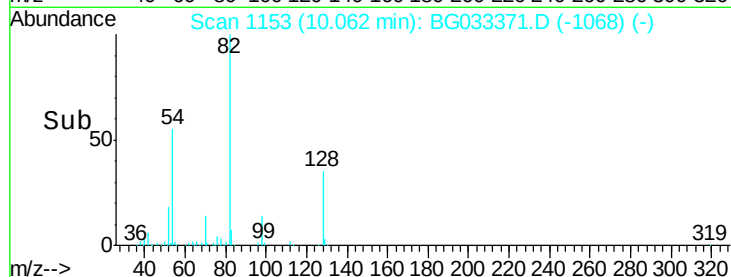
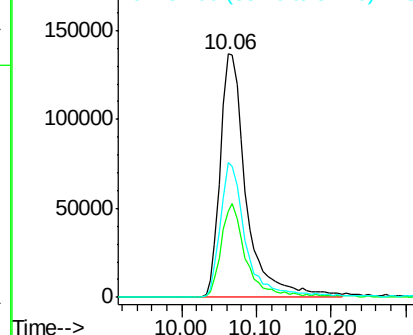
82 100

128 35.2 29.7 44.5

54 55.5 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. -0.03 min

Lab File: BG033371.D

Acq: 27 Mar 2018 20:50

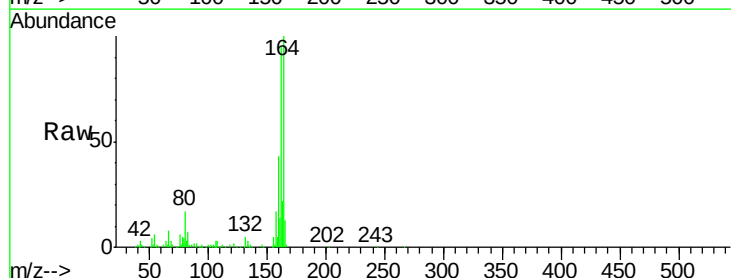
Tgt Ion: 164 Resp: 128476

Ion Ratio Lower Upper

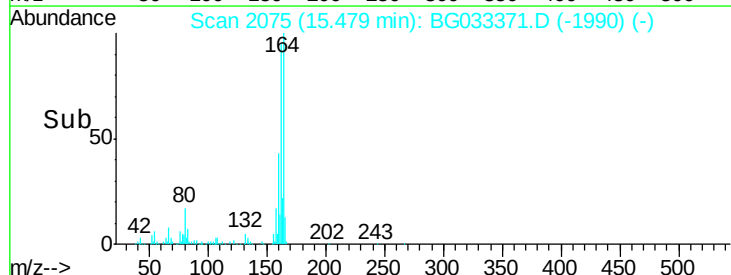
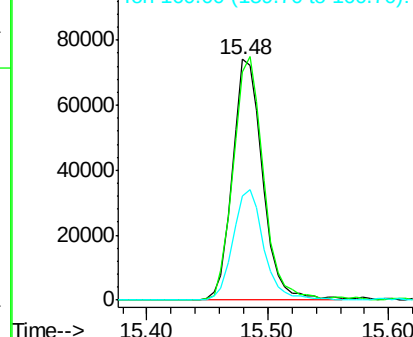
164 100

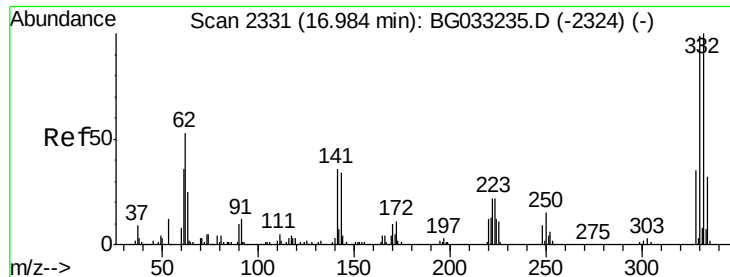
162 94.9 78.8 118.2

160 43.2 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

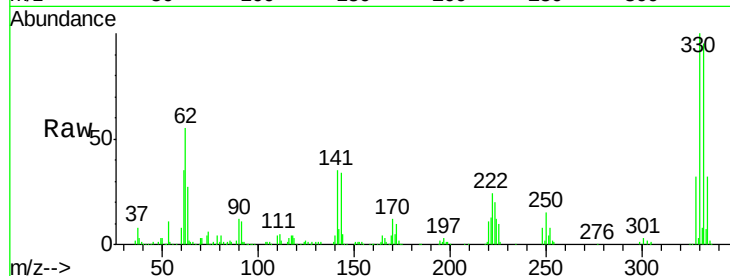




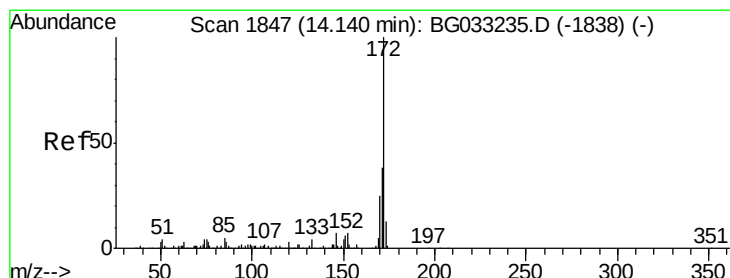
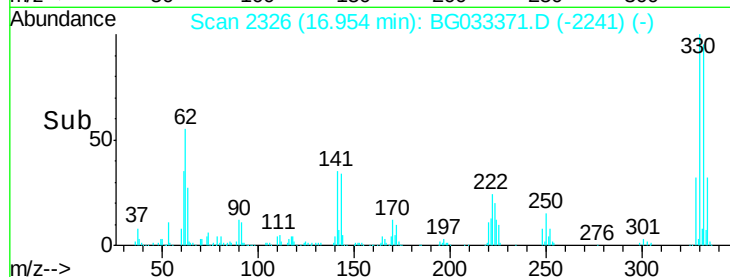
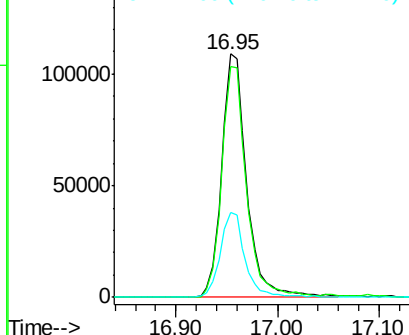
#41  
 2,4,6-Tribromophenol  
 Concen: 96.905 ng  
 RT: 16.95 min Scan# 2326  
 Delta R.T. -0.03 min  
 Lab File: BG033371.D  
 Acq: 27 Mar 2018 20:50

Instrument :  
 BNA\_G  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.5  | 77.0  | 115.6 |
| 141     | 34.7  | 25.2  | 37.8  |

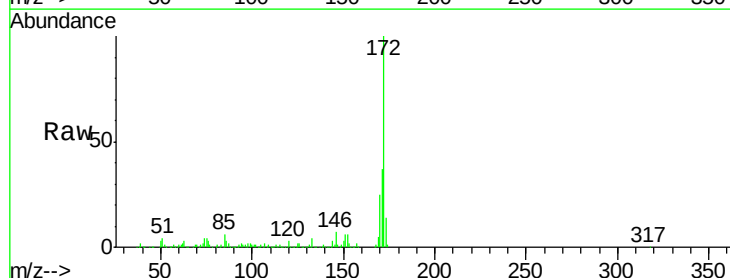


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

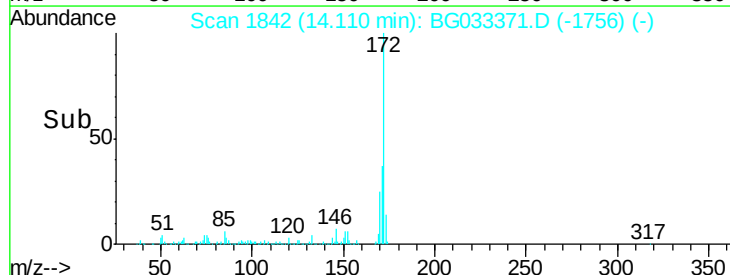
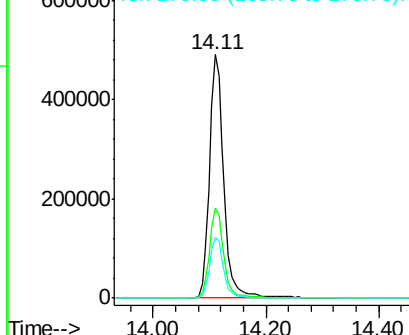


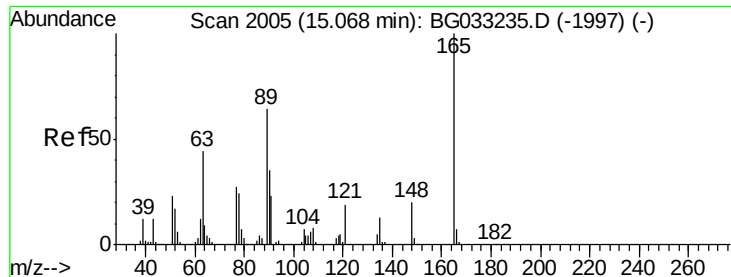
#44  
 2-Fluorobiphenyl  
 Concen: 96.721 ng  
 RT: 14.11 min Scan# 1842  
 Delta R.T. -0.03 min  
 Lab File: BG033371.D  
 Acq: 27 Mar 2018 20:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.9  | 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





#50

2,6-Dinitrotoluene

Concen: 7.257 ng

RT: 15.48 min Scan# 2075

Delta R.T. 0.41 min

Lab File: BG033371.D

Acq: 27 Mar 2018 20:50

Instrument :

BNA\_G

ClientSampleId :

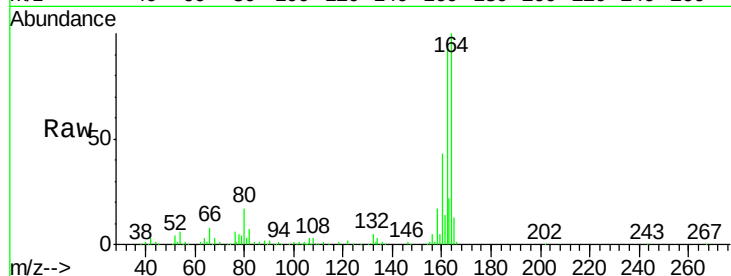
Tot Ion:165 Resp: 16590

Ion Ratio Lower Upper

165 100

63 0.0 52.7 79.1#

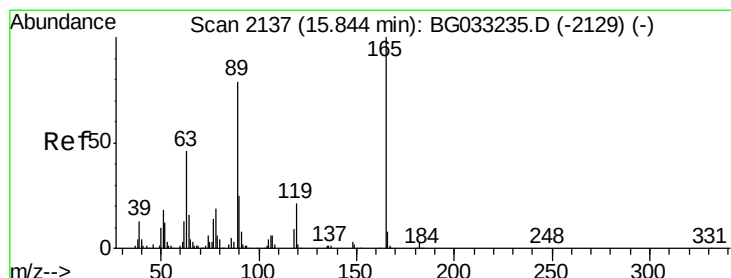
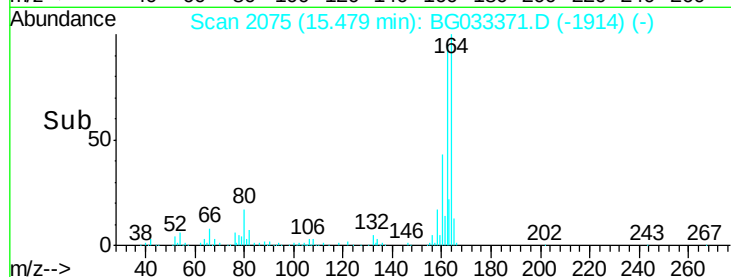
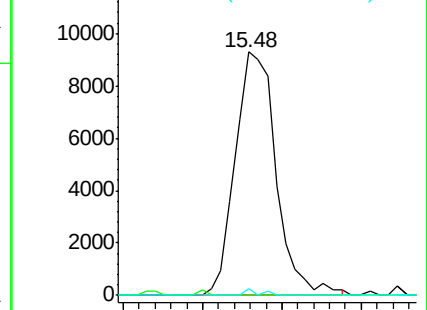
89 2.9 49.2 73.8#



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: 4.928 ng

RT: 15.48 min Scan# 2075

Delta R.T. -0.37 min

Lab File: BG033371.D

Acq: 27 Mar 2018 20:50

Tgt Ion:165 Resp: 16590

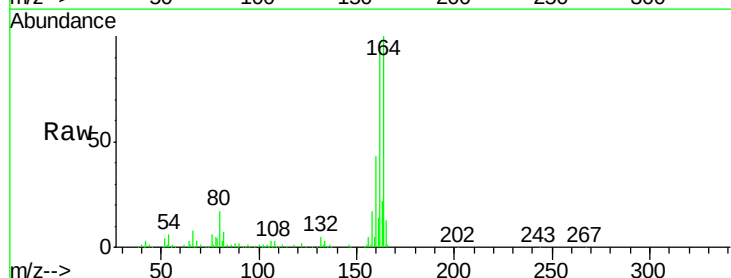
Ion Ratio Lower Upper

165 100

63 0.0 42.0 63.0#

89 2.9 66.9 100.3#

182 0.0 2.6 3.8#

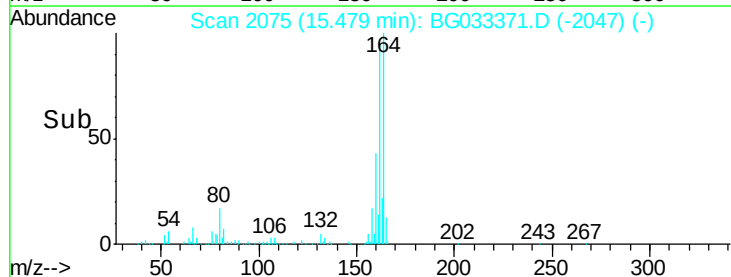
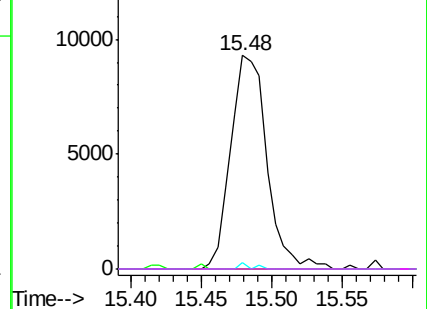


Abundance Ion 165.00 (164.70 to 165.70): E

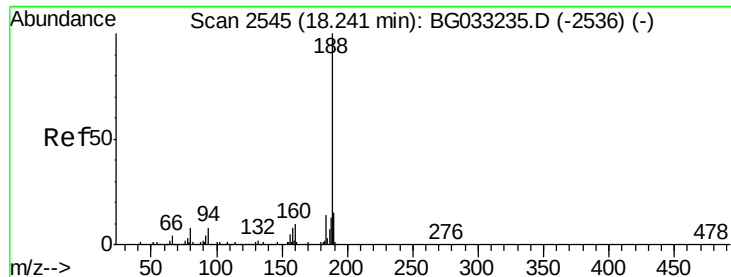
Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E







#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 18.21 min Scan# 2540

Delta R.T. -0.03 min

Lab File: BG033371.D

Acq: 27 Mar 2018 20:50

Instrument :

BNA\_G

ClientSampled :

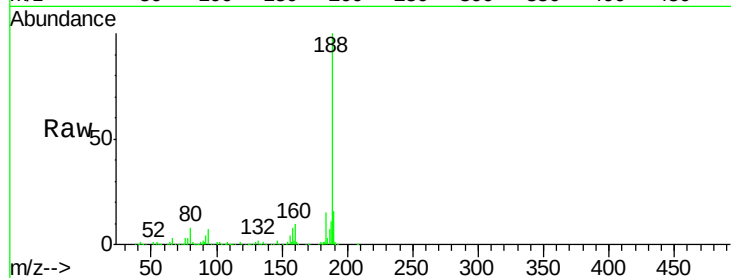
Tot Ion:188 Resp: 338610

Ion Ratio Lower Upper

188 100

94 6.9 6.9 10.3

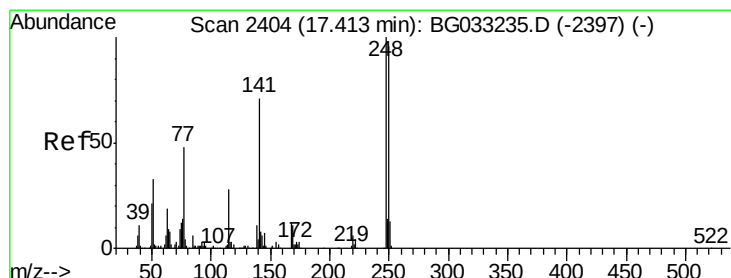
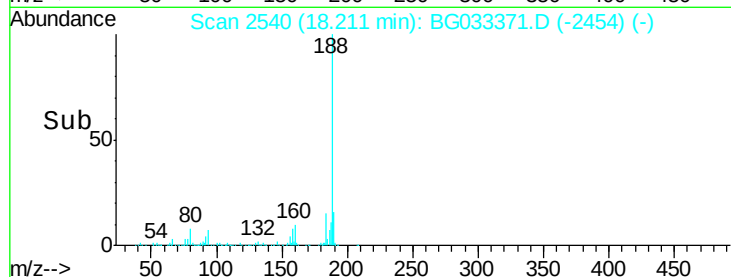
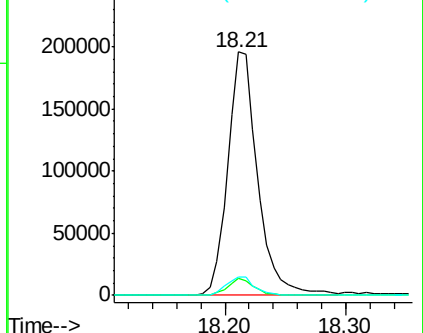
80 7.5 7.7 11.5#



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



#66

4-Bromophenyl-phenylether

Concen: 3.575 ng

RT: 16.95 min Scan# 2326

Delta R.T. -0.46 min

Lab File: BG033371.D

Acq: 27 Mar 2018 20:50

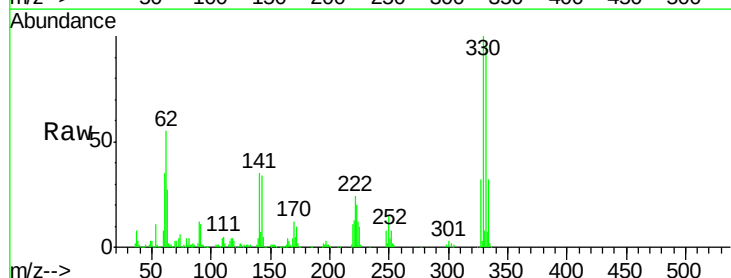
Tgt Ion:248 Resp: 14215

Ion Ratio Lower Upper

248 100

250 191.6 77.1 115.7#

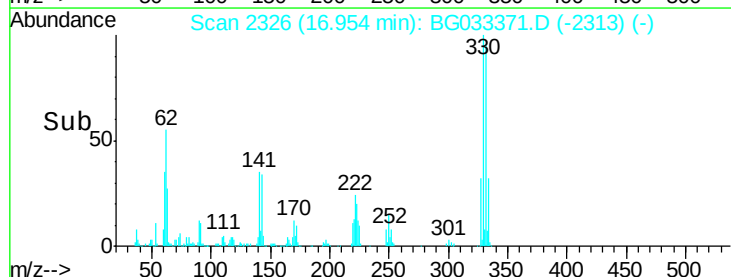
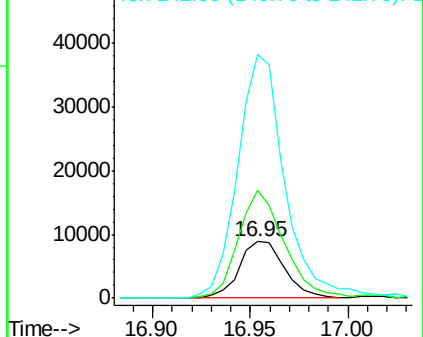
141 433.8 50.8 76.2#

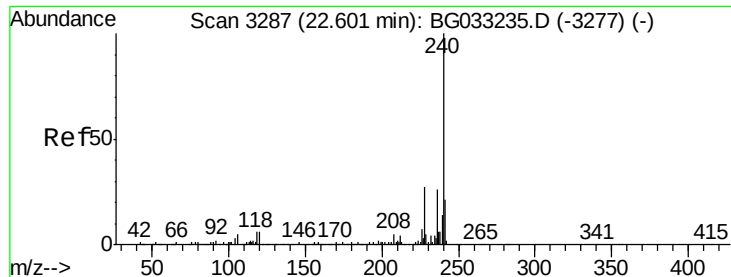


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 22.56 min Scan# 3280

Delta R.T. -0.04 min

Lab File: BG033371.D

Acq: 27 Mar 2018 20:50

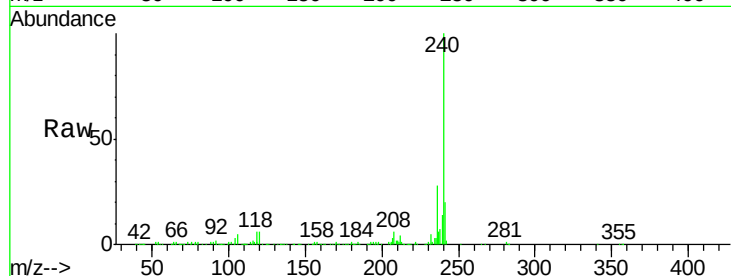
Instrument :

BNA\_G

ClientSampleId :

Tot Ion:240 Resp: 351730

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 240 | 100   |       |       |
| 120 | 5.5   | 6.8   | 10.2# |
| 236 | 28.3  | 20.9  | 31.3  |



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

22.56

200000

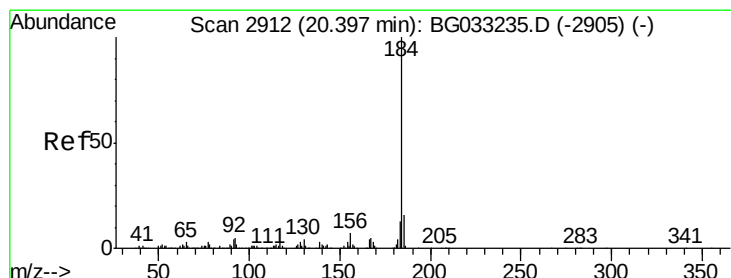
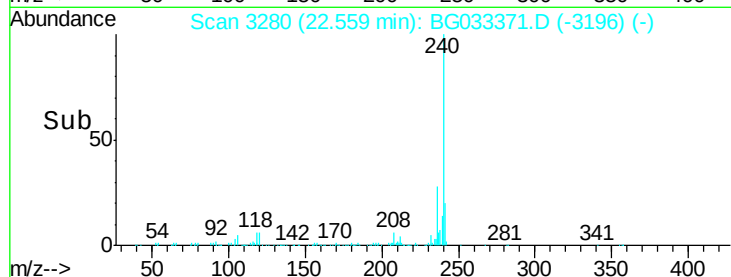
150000

100000

50000

0

Time-->



#76

Benzidine

Concen: 2.541 ng

RT: 20.73 min Scan# 2969

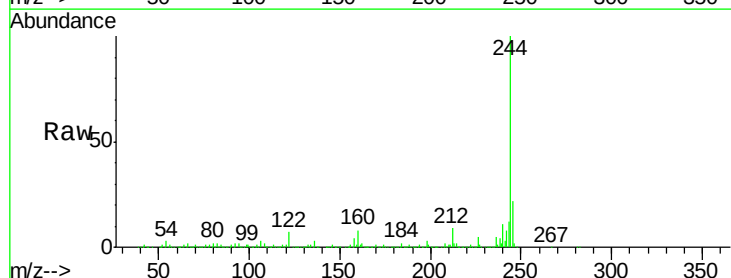
Delta R.T. 0.34 min

Lab File: BG033371.D

Acq: 27 Mar 2018 20:50

Tgt Ion:184 Resp: 24233

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 184 | 100   |       |       |
| 185 | 15.3  | 11.1  | 16.7  |
| 183 | 7.9   | 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

20.73

20000

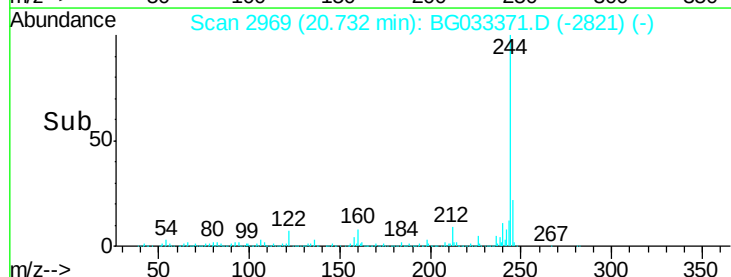
15000

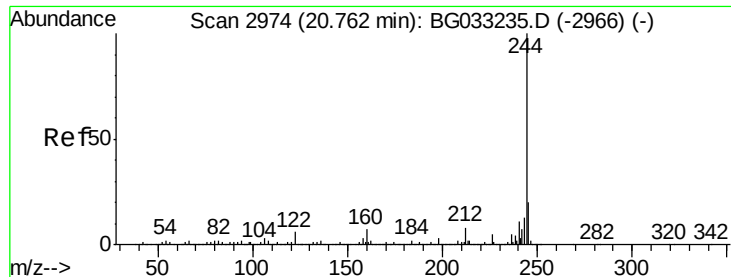
10000

5000

0

Time-->



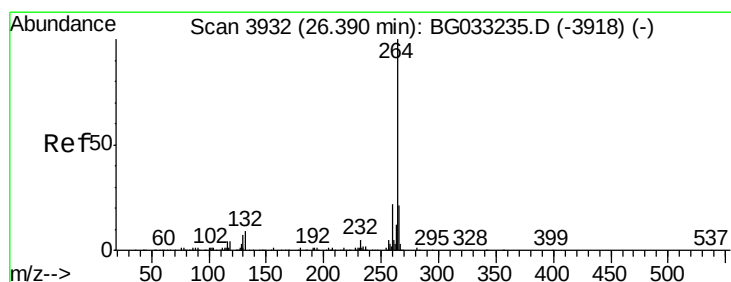
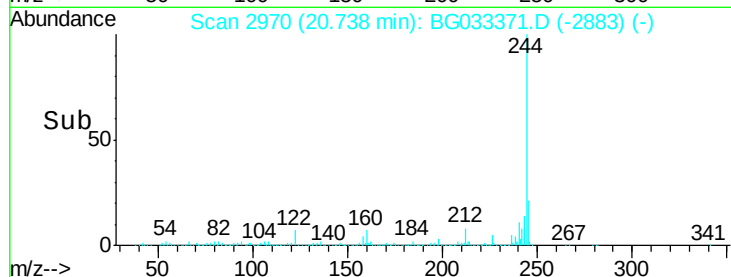
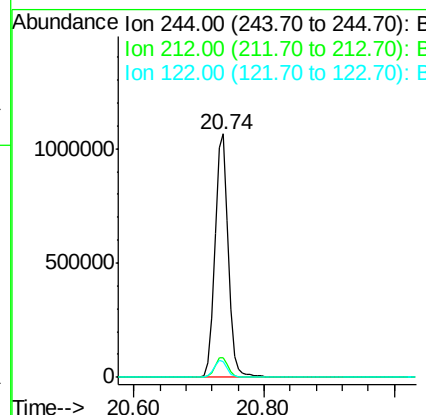
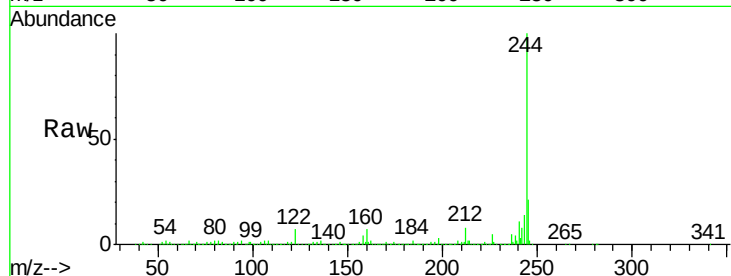


#78  
 Terphenyl-d14  
 Concen: 90.873 ng  
 RT: 20.74 min Scan# 2970  
 Delta R.T. -0.02 min  
 Lab File: BG033371.D  
 Acq: 27 Mar 2018 20:50

Instrument :  
 BNA\_G  
 ClientSampled :

Tot Ion:244 Resp: 1494557  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 8.3   | 5.8   | 8.8   |
| 122 | 6.5   | 7.0   | 10.4  |



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 26.33 min Scan# 3922  
 Delta R.T. -0.06 min  
 Lab File: BG033371.D  
 Acq: 27 Mar 2018 20:50

Tgt Ion:264 Resp: 375976  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.3  | 17.4  | 26.0  |
| 265 | 21.7  | 17.7  | 26.5  |

