

Data Path : U:\HPCHEM1\BNA G\DATA\BG020618\  
 Data File : BG032583.D  
 Acq On : 7 Feb 2018 4:19  
 Operator : SJ/JU  
 Sample : J1455-01  
 Misc : MDL-W-8 ppm  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Feb 07 05:41:39 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG012918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Feb 06 18:57:08 2018  
 Response via : Initial Calibration

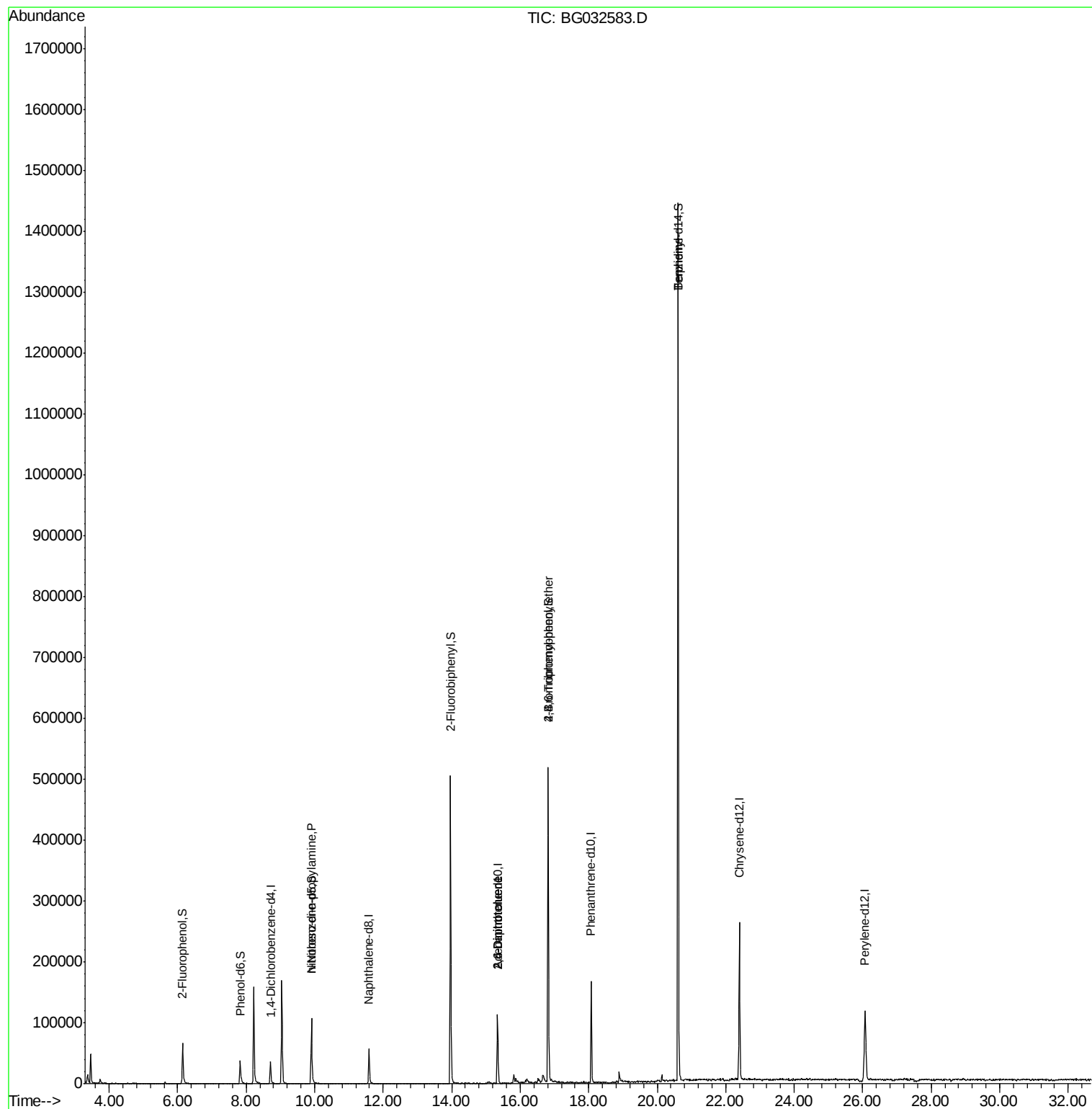
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.71  | 152  | 15064    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 11.59 | 136  | 63237    | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 15.34 | 164  | 45613    | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 18.07 | 188  | 123535   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 22.40 | 240  | 198444   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 26.07 | 264  | 171840   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.14  | 112  | 42462    | 56.62  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.82  | 99   | 32450    | 32.42  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.91  | 82   | 77927    | 76.97  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.82 | 330  | 137704   | 158.60 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 13.97 | 172  | 322974   | 84.16  | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.61 | 244  | 809275   | 87.36  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.90  | 70   | 10550    | 15.899 | ng    | # 77     |
| 50) 2,6-Dinitrotoluene         | 15.34 | 165  | 6186     | 7.008  | ng    | # 18     |
| 56) 2,4-Dinitrotoluene         | 15.34 | 165  | 6186     | 4.922  | ng    | # 16     |
| 66) 4-Bromophenyl-phenylether  | 16.82 | 248  | 10311    | 5.634  | ng    | # 1      |
| 76) Benzidine                  | 20.61 | 184  | 11220    | 2.879  | ng    | # 89     |

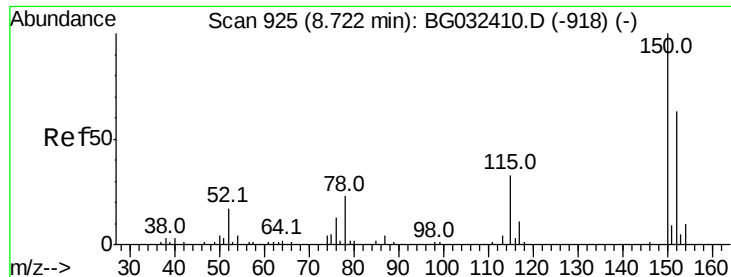
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : U:\HPCHEM1\BNA G\DATA\BG020618\  
Data File : BG032583.D  
Acq On : 7 Feb 2018 4:19  
Operator : SJ/JU  
Sample : J1455-01  
Misc : MDL-W-8 ppm  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Feb 07 05:41:39 2018  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG012918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Feb 06 18:57:08 2018  
Response via : Initial Calibration



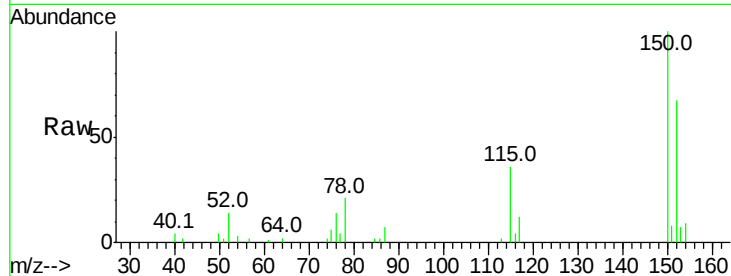


#1

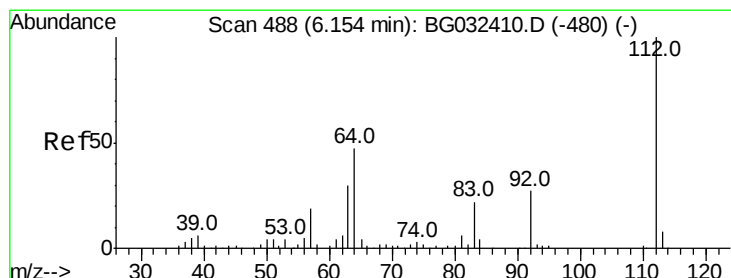
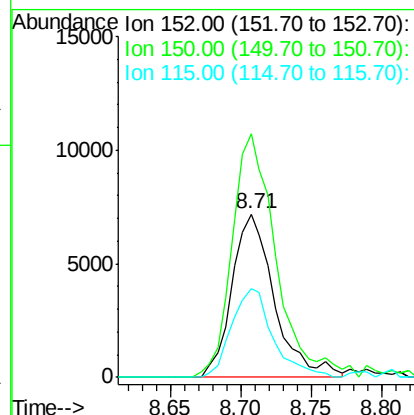
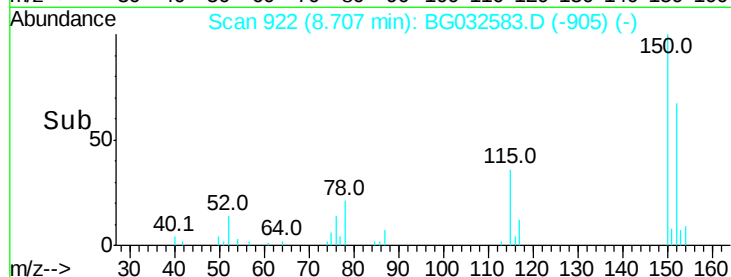
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.71 min Scan# 922  
Delta R.T. -0.00 min  
Lab File: BG032583.D  
Acq: 7 Feb 2018 4:19

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 149.2 | 126.6 | 189.8 |
| 115     | 54.4  | 53.0  | 79.4  |



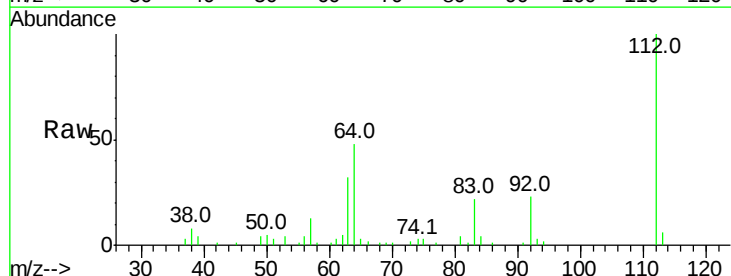
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



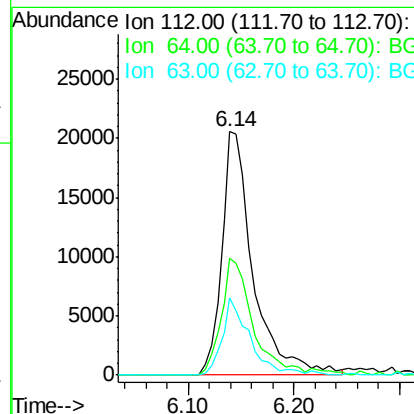
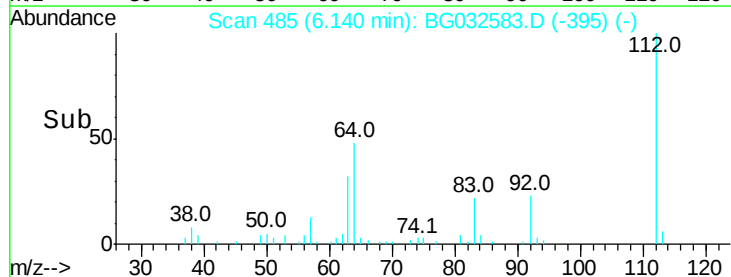
#5

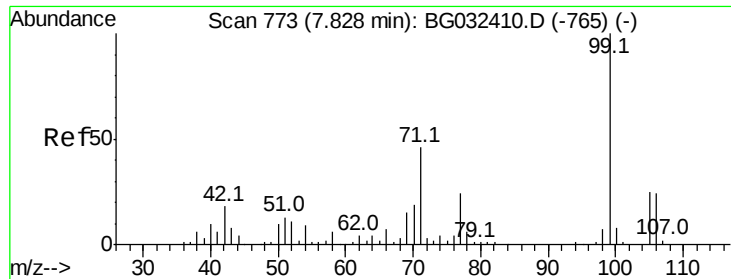
2-Fluorophenol  
Concen: 56.617 ng  
RT: 6.14 min Scan# 485  
Delta R.T. -0.00 min  
Lab File: BG032583.D  
Acq: 7 Feb 2018 4:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 48.1  | 56.3  | 84.5# |
| 63      | 31.7  | 30.1  | 45.1  |



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





#7

Phenol-d6

Concen: 32.424 ng

RT: 7.82 min Scan# 771

Delta R.T. -0.00 min

Lab File: BG032583.D

Acq: 7 Feb 2018 4:19

Instrument :

BNA\_G

ClientSampled :

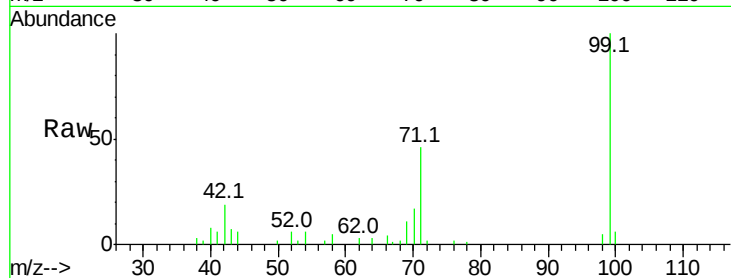
Tot Ion: 99 Resp: 32450

Ion Ratio Lower Upper

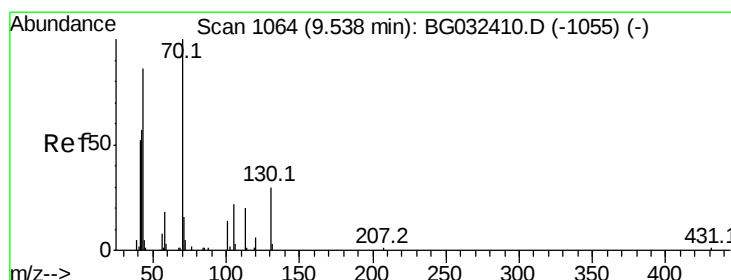
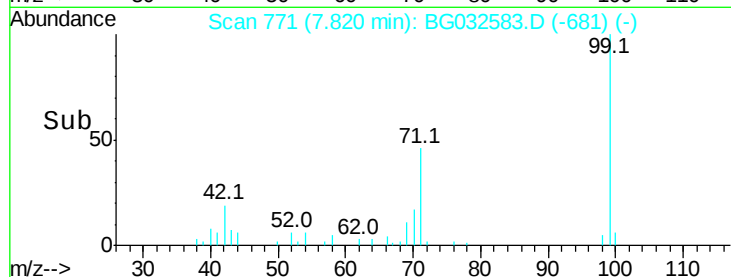
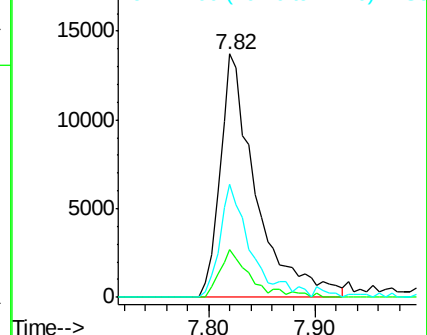
99 100

42 19.4 14.1 21.1

71 46.4 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



#19

n-Nitroso-di-n-propylamine

Concen: 15.899 ng

RT: 9.90 min Scan# 1125

Delta R.T. 0.38 min

Lab File: BG032583.D

Acq: 7 Feb 2018 4:19

Tgt Ion: 70 Resp: 10550

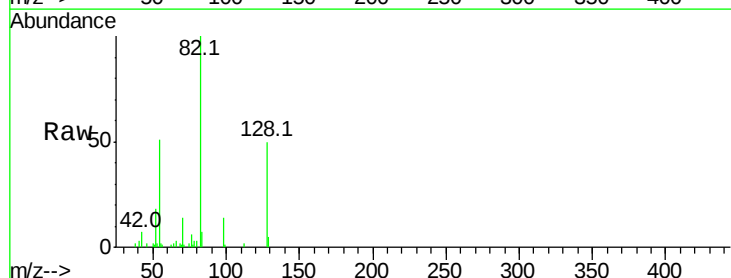
Ion Ratio Lower Upper

70 100

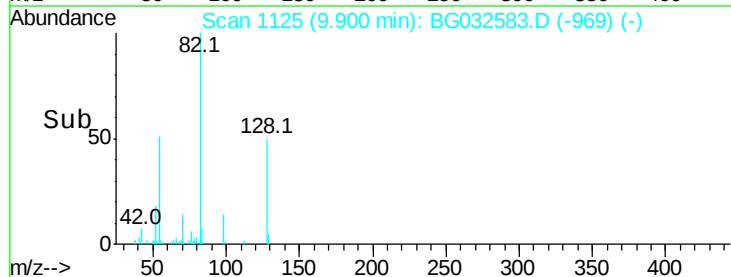
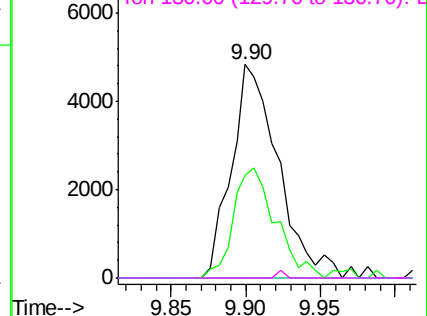
42 47.7 49.1 73.7#

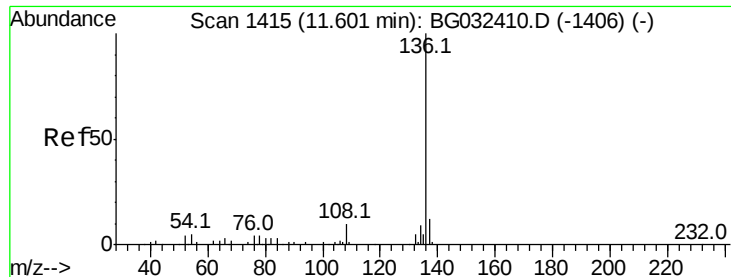
101 0.0 8.5 12.7#

130 0.0 13.4 20.0#



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

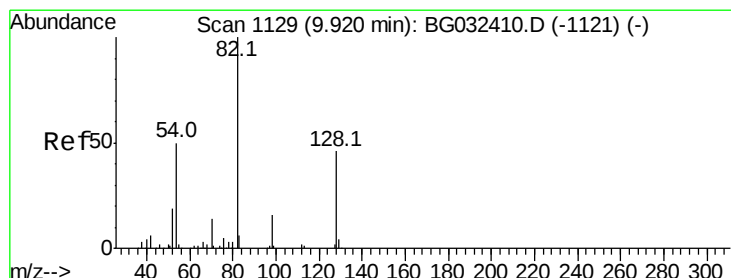
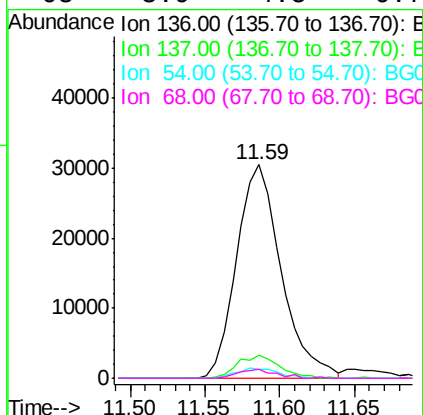
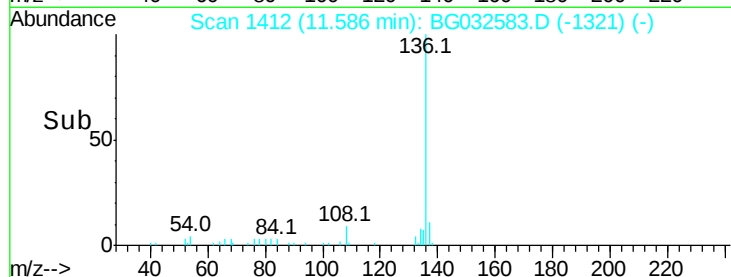
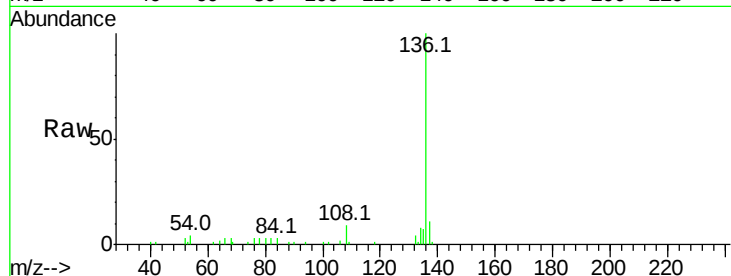




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.59 min Scan# 1412  
Delta R.T. 0.00 min  
Lab File: BG032583.D  
Acq: 7 Feb 2018 4:19

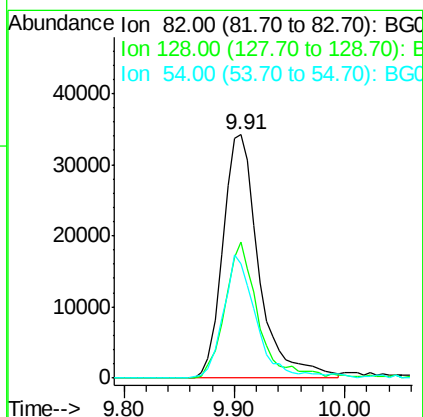
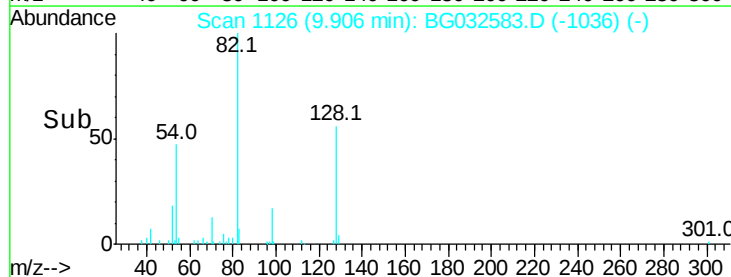
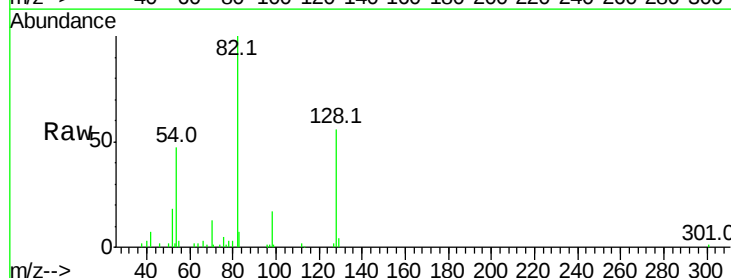
Instrument :  
BNA\_G  
ClientSampleId :

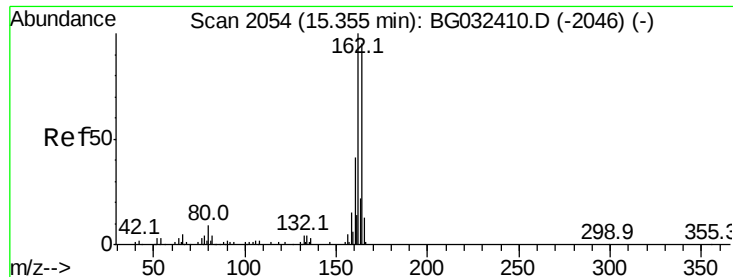
|             |       |            |
|-------------|-------|------------|
| Tot Ion:136 | Resp: | 63237      |
| Ion Ratio   | Lower | Upper      |
| 136         | 100   |            |
| 137         | 10.6  | 9.2 13.8   |
| 54          | 4.3   | 10.3 15.5# |
| 68          | 3.9   | 4.5 6.7#   |



#23  
Nitrobenzene-d5  
Concen: 76.970 ng  
RT: 9.91 min Scan# 1126  
Delta R.T. -0.00 min  
Lab File: BG032583.D  
Acq: 7 Feb 2018 4:19

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 82 | Resp: | 77927      |
| Ion Ratio   | Lower | Upper      |
| 82          | 100   |            |
| 128         | 56.1  | 29.7 44.5# |
| 54          | 47.1  | 43.1 64.7  |





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 15.34 min Scan# 2051

Delta R.T. -0.00 min

Lab File: BG032583.D

Acq: 7 Feb 2018 4:19

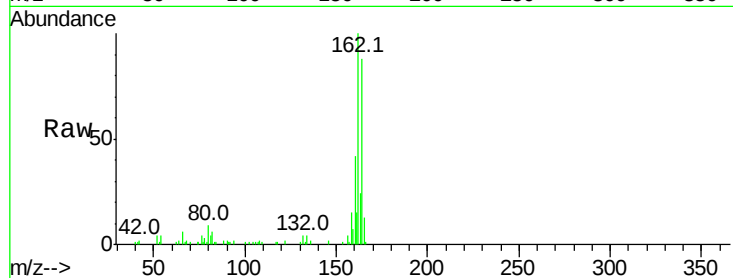
Instrument :

BNA\_G

ClientSampleId :

Tot Ion:164 Resp: 45613

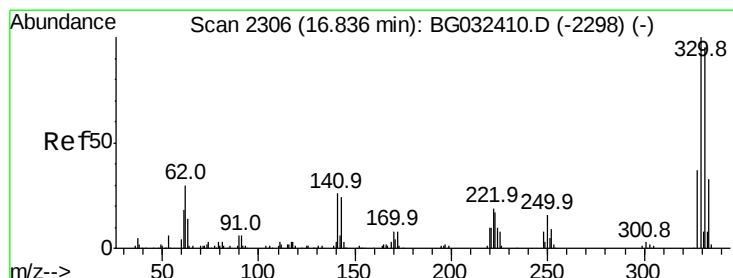
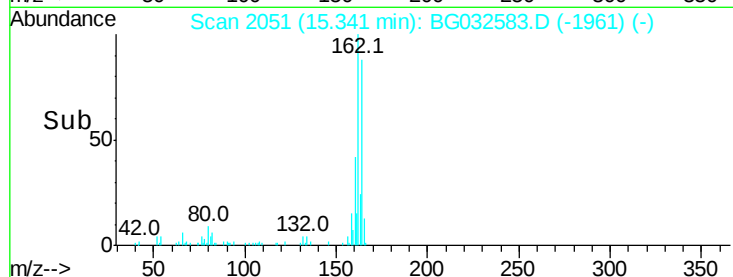
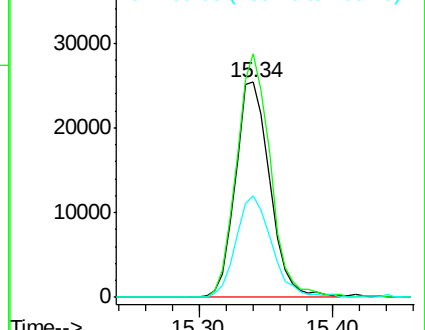
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 113.1 | 78.8  | 118.2 |
| 160 | 47.2  | 35.4  | 53.0  |



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



#41

2,4,6-Tribromophenol

Concen: 158.601 ng

RT: 16.82 min Scan# 2302

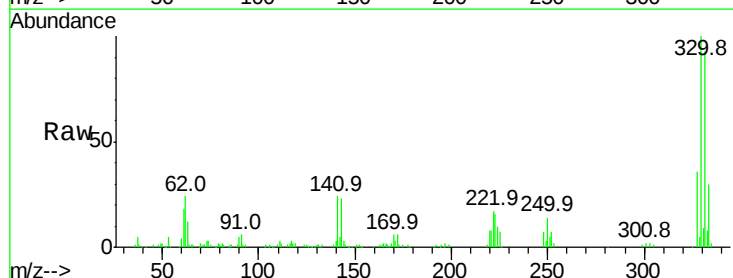
Delta R.T. -0.00 min

Lab File: BG032583.D

Acq: 7 Feb 2018 4:19

Tgt Ion:330 Resp: 137704

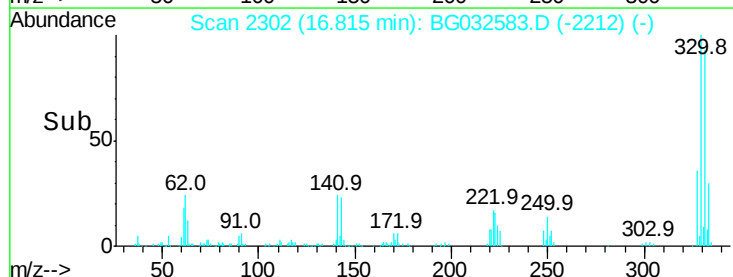
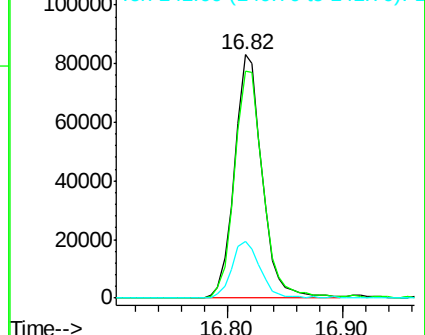
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 330 | 100   |       |       |
| 332 | 96.8  | 77.0  | 115.6 |
| 141 | 24.1  | 25.2  | 37.8# |

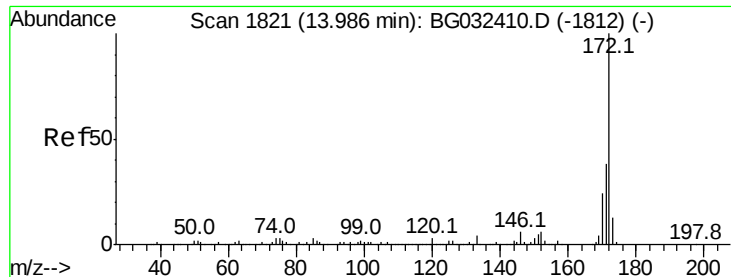


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

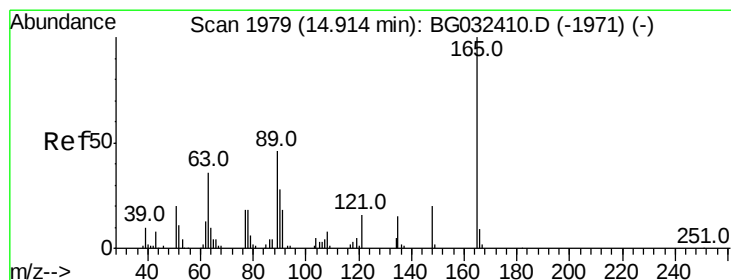
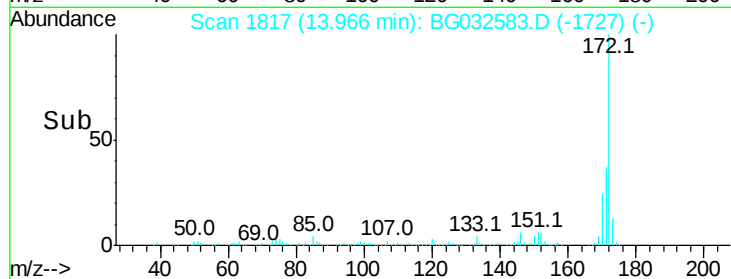
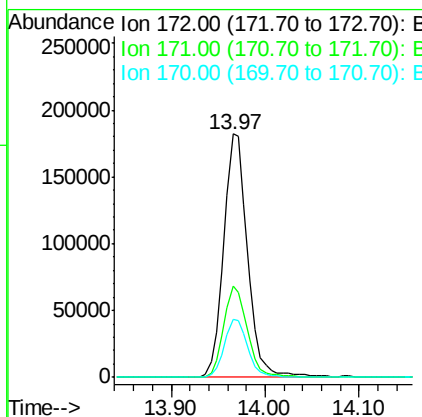
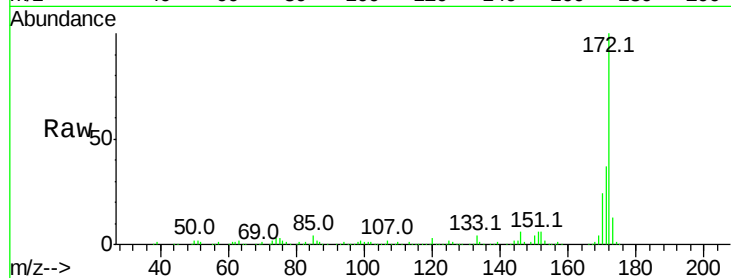




#44  
 2-Fluorobiphenyl  
 Concen: 84.159 ng  
 RT: 13.97 min Scan# 1817  
 Delta R.T. -0.00 min  
 Lab File: BG032583.D  
 Acq: 7 Feb 2018 4:19

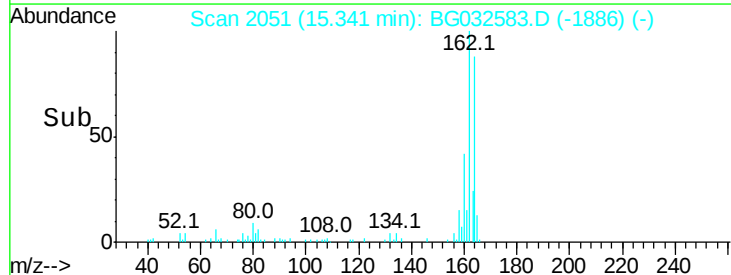
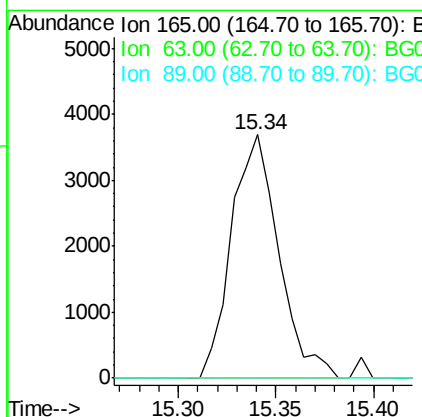
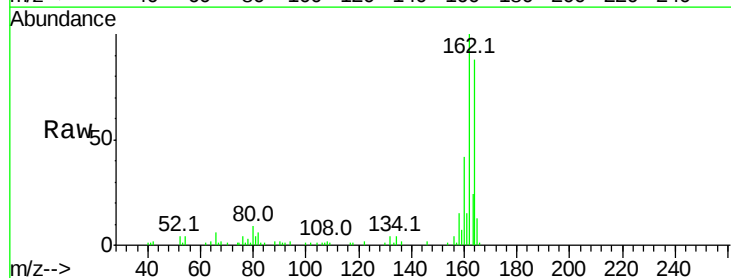
Instrument :  
 BNA\_G  
 ClientSampleId :

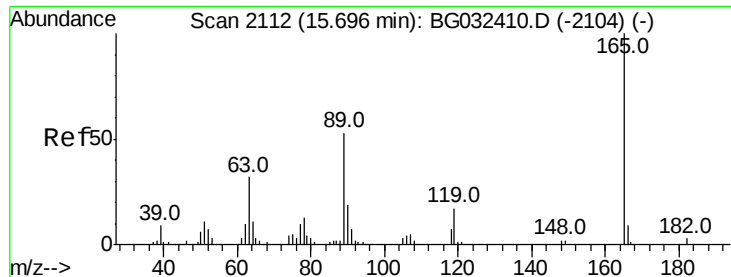
Tot Ion:172 Resp: 322974  
 Ion Ratio Lower Upper  
 172 100  
 171 37.2 30.0 45.0  
 170 23.8 19.5 29.3



#50  
 2,6-Dinitrotoluene  
 Concen: 7.008 ng  
 RT: 15.34 min Scan# 2051  
 Delta R.T. 0.44 min  
 Lab File: BG032583.D  
 Acq: 7 Feb 2018 4:19

Tgt Ion:165 Resp: 6186  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 52.7 79.1#  
 89 0.0 49.2 73.8#





#56

2,4-Dinitrotoluene

Concen: 4.922 ng

RT: 15.34 min Scan# 2051

Delta R.T. -0.34 min

Lab File: BG032583.D

Acq: 7 Feb 2018 4:19

Instrument :

BNA\_G

ClientSampled :

Tot Ion:165 Resp: 6186

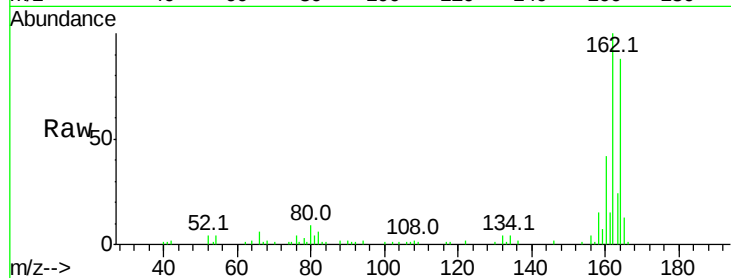
Ion Ratio Lower Upper

165 100

63 0.0 42.0 63.0#

89 0.0 66.9 100.3#

182 0.0 2.6 3.8#

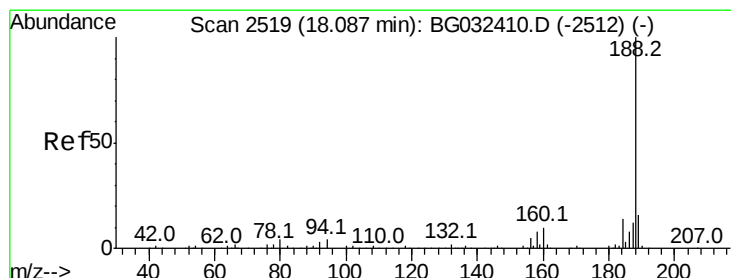
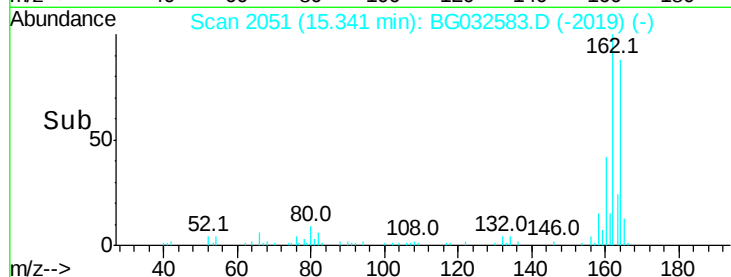
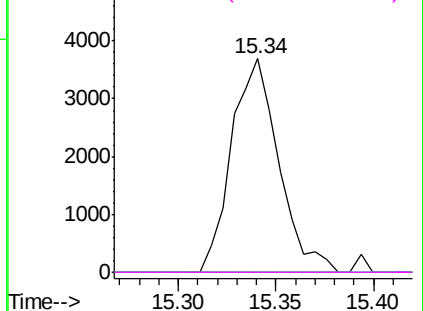


Abundance Ion 165.00 (164.70 to 165.70): E

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: 18.07 min Scan# 2516

Delta R.T. -0.00 min

Lab File: BG032583.D

Acq: 7 Feb 2018 4:19

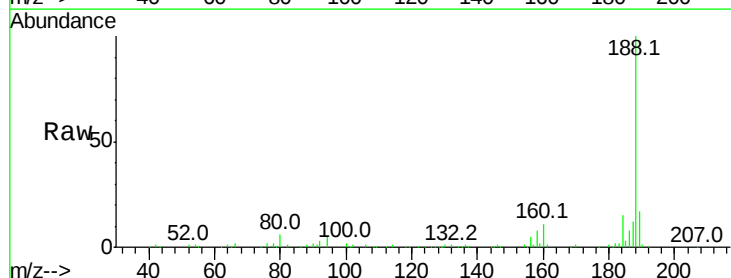
Tgt Ion:188 Resp: 123535

Ion Ratio Lower Upper

188 100

94 4.8 6.9 10.3#

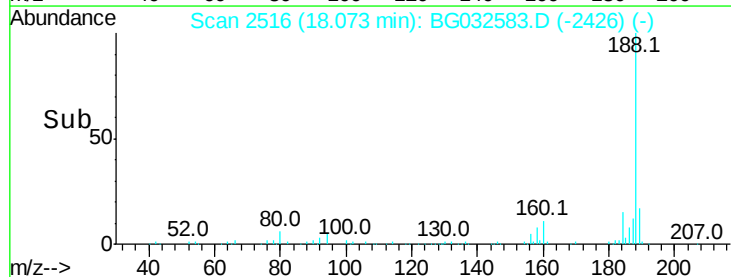
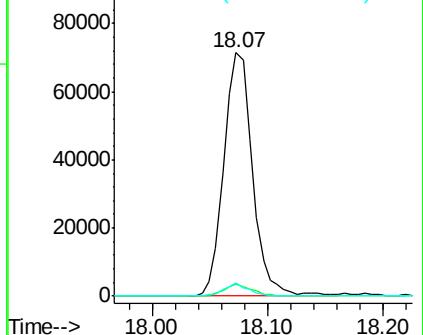
80 5.6 7.7 11.5#

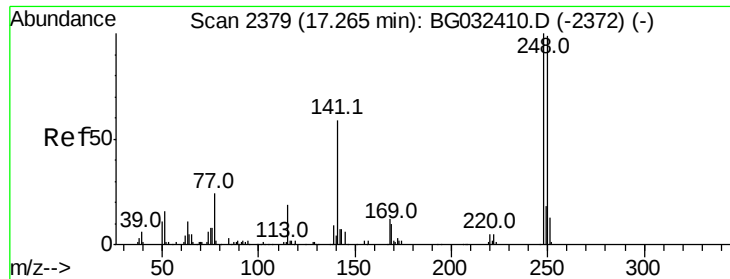


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

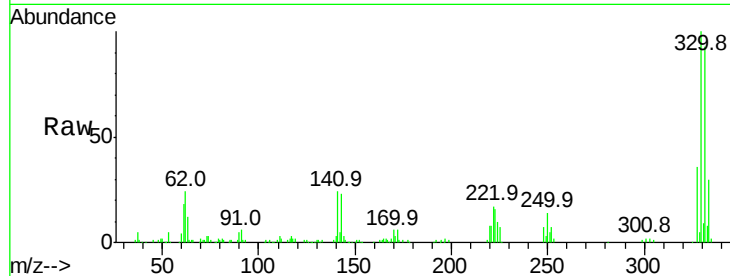




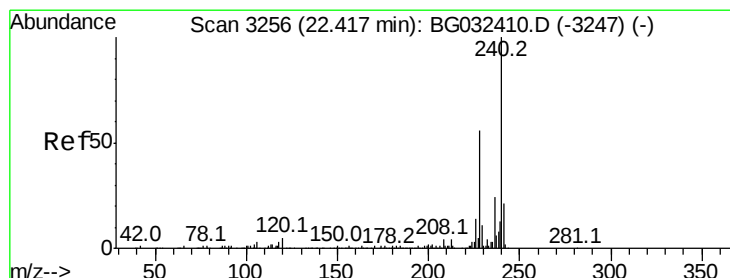
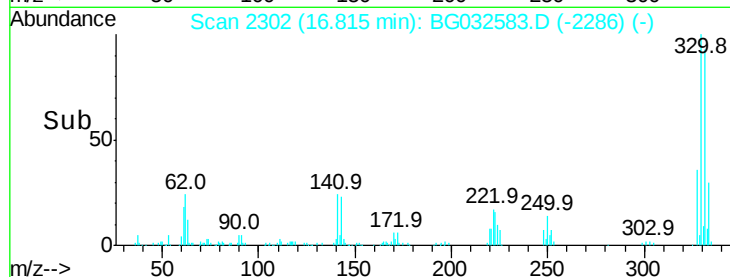
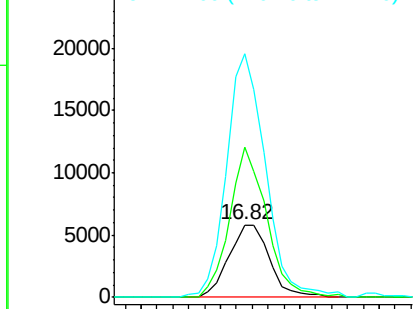
#66  
 4-Bromophenyl-phenylether  
 Concen: 5.634 ng  
 RT: 16.82 min Scan# 2302  
 Delta R.T. -0.44 min  
 Lab File: BG032583.D  
 Acq: 7 Feb 2018 4:19

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:248 Resp: 10311  
 Ion Ratio Lower Upper  
 248 100  
 250 207.7 77.1 115.7#  
 141 337.2 50.8 76.2#

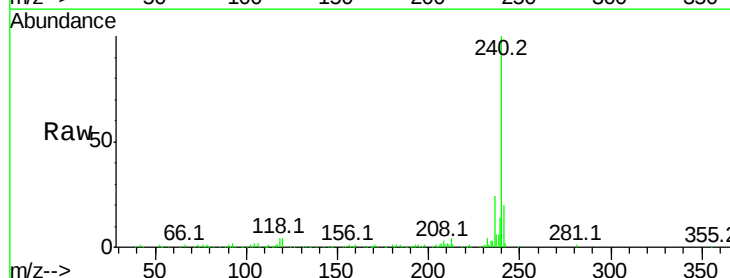


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

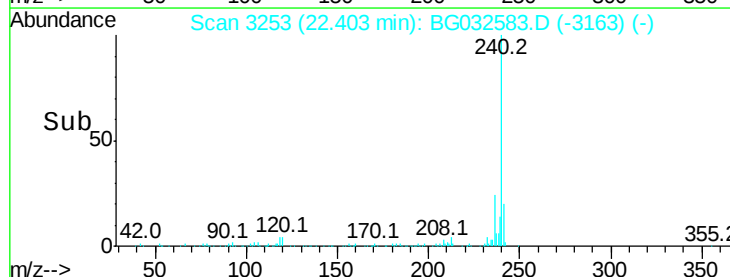
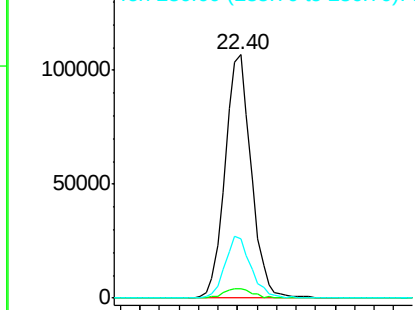


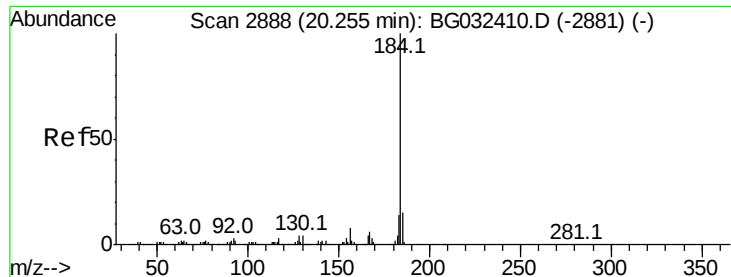
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 22.40 min Scan# 3253  
 Delta R.T. -0.00 min  
 Lab File: BG032583.D  
 Acq: 7 Feb 2018 4:19

Tgt Ion:240 Resp: 198444  
 Ion Ratio Lower Upper  
 240 100  
 120 4.1 6.8 10.2#  
 236 24.5 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





#76

Benzidine

Concen: 2.879 ng

RT: 20.61 min Scan# 2948

Delta R.T. 0.37 min

Lab File: BG032583.D

Acq: 7 Feb 2018 4:19

Instrument :

BNA\_G

ClientSampleId :

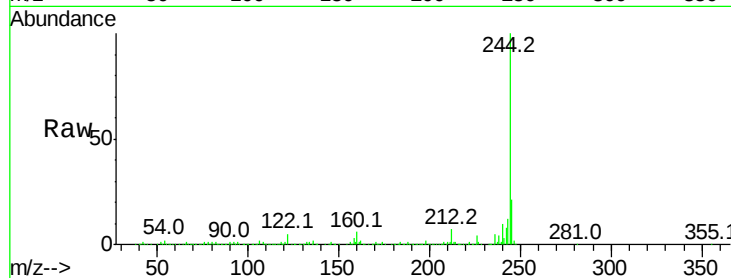
Tot Ion:184 Resp: 11220

Ion Ratio Lower Upper

184 100

185 18.5 11.1 16.7#

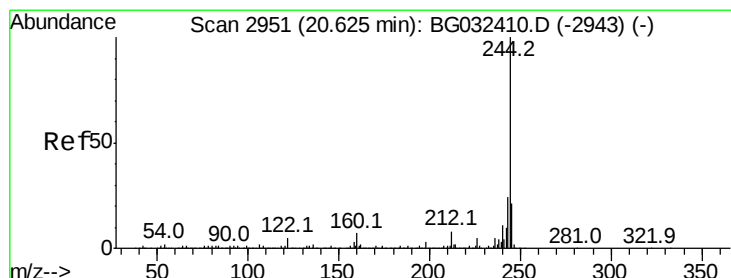
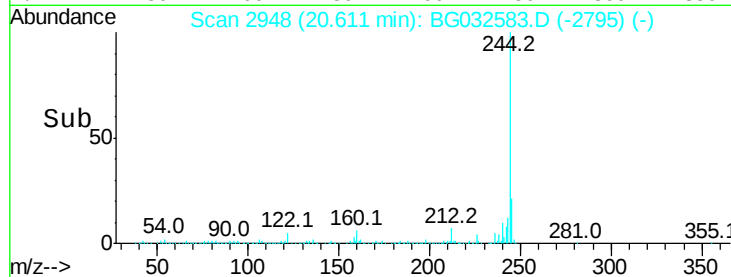
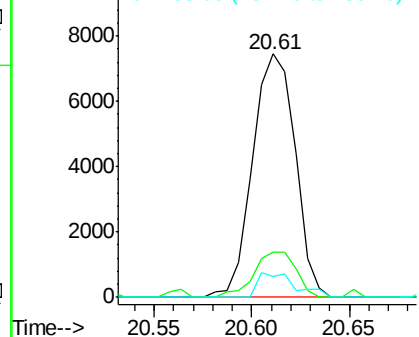
183 8.7 10.6 16.0#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Terphenyl-d14

Concen: 87.356 ng

RT: 20.61 min Scan# 2948

Delta R.T. -0.00 min

Lab File: BG032583.D

Acq: 7 Feb 2018 4:19

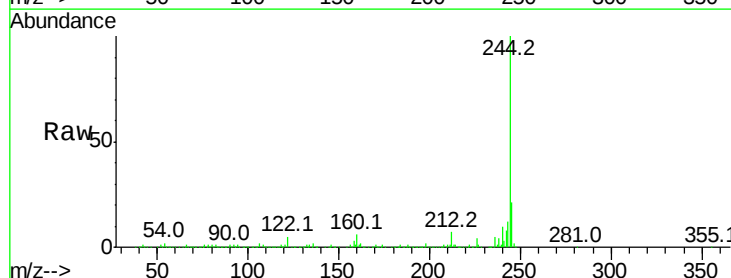
Tgt Ion:244 Resp: 809275

Ion Ratio Lower Upper

244 100

212 7.2 5.8 8.8

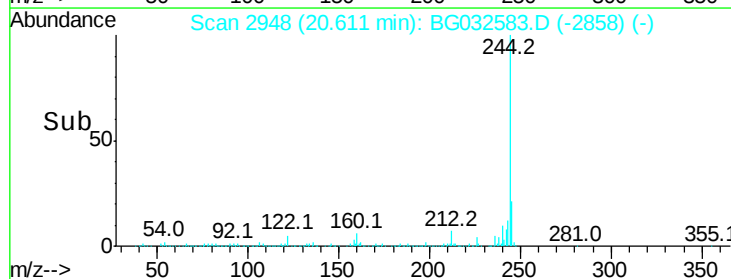
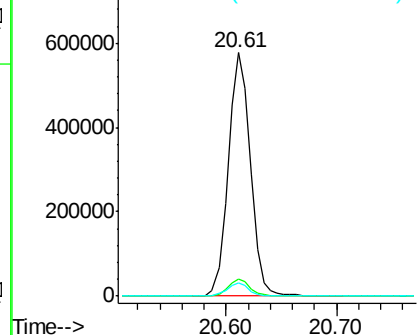
122 5.2 7.0 10.4#

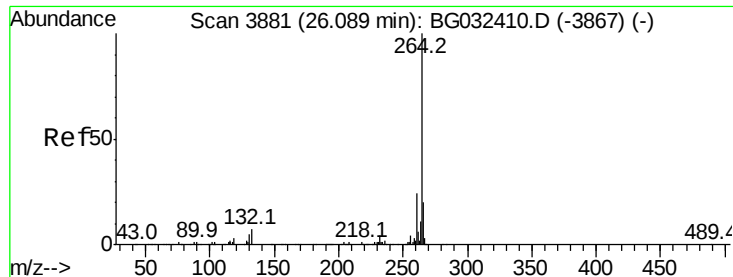


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

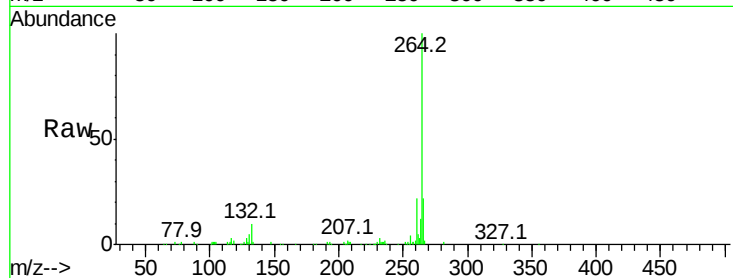




#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 26.07 min Scan# 3877  
 Delta R.T. 0.00 min  
 Lab File: BG032583.D  
 Acq: 7 Feb 2018 4:19

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.2  | 17.4  | 26.0  |
| 265     | 21.8  | 17.7  | 26.5  |



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

