

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG031720\  
 Data File : BG044837.D  
 Acq On : 17 Mar 2020 17:52  
 Operator : CG/JU  
 Sample : PB127518BL  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Mar 18 11:44:56 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG031020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 16 17:37:15 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.05  | 152  | 78452    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.86 | 136  | 306174   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.68 | 164  | 210228   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.42 | 188  | 535355   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.69 | 240  | 510374   | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 24.90 | 264  | 567219   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.61  | 112  | 644634   | 127.91 | ng    | 0.00     |
| 7) Phenol-d6                | 7.20  | 99   | 884515   | 120.80 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.20  | 82   | 579173   | 83.01  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.17 | 330  | 423015   | 153.68 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.31 | 172  | 1245148  | 84.82  | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.04 | 244  | 2321233  | 85.07  | ng    | 0.00     |

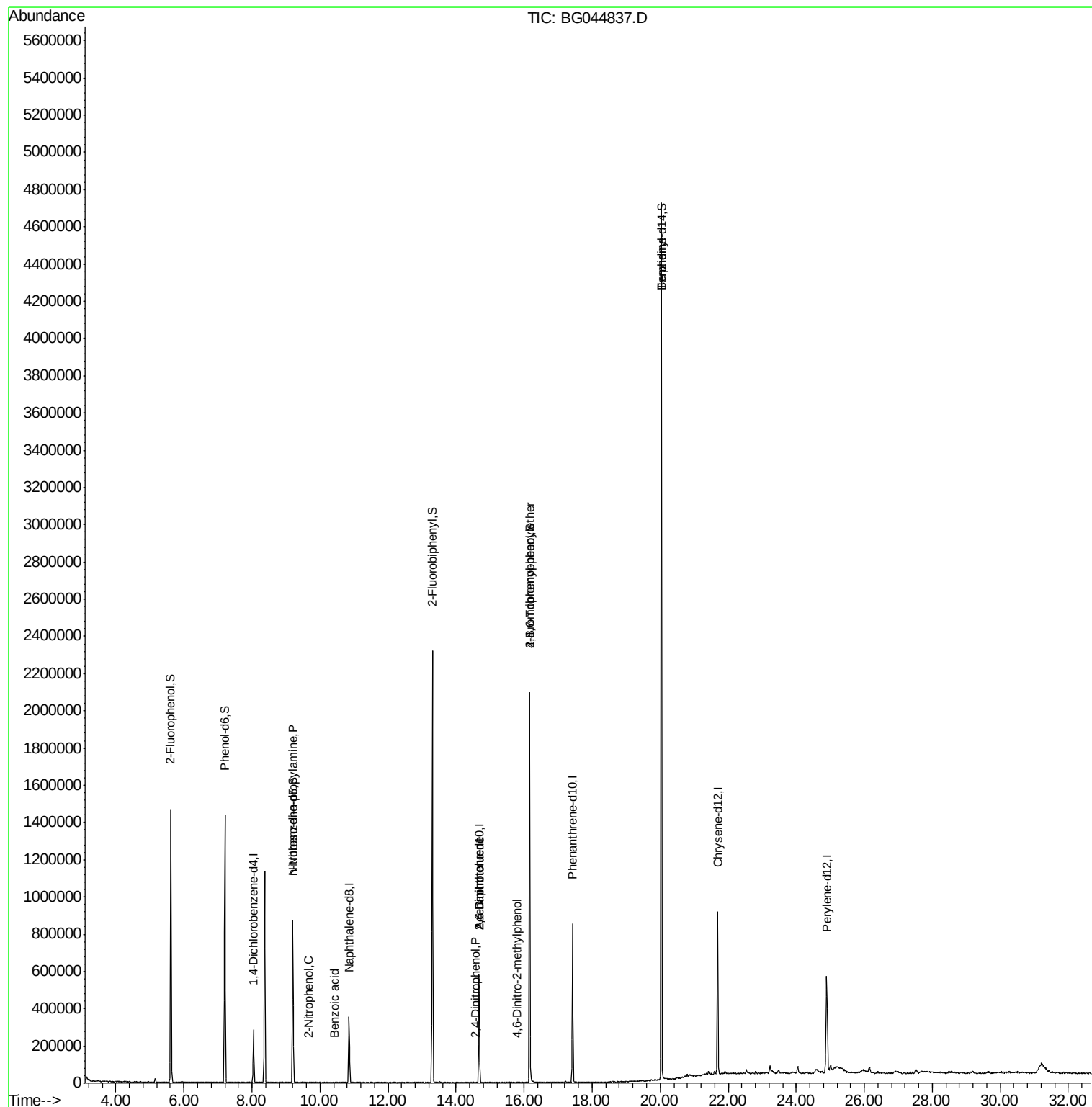
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 7.20  | 77   | 1879     | Below Cal |       | # 6    |
| 19) n-Nitroso-di-n-propylamine | 9.20  | 70   | 75694    | 14.640    | ng    | # 73   |
| 26) 2-Nitrophenol              | 9.68  | 139  | 74       | 5.541     | ng    | # 28   |
| 32) Benzoic acid               | 10.42 | 122  | 71       | 9.686     | ng    | # 1    |
| 51) 2,6-Dinitrotoluene         | 14.68 | 165  | 29346    | 8.695     | ng    | # 21   |
| 54) 2,4-Dinitrophenol          | 14.59 | 184  | 56       | 8.351     | ng    | # 25   |
| 57) 2,4-Dinitrotoluene         | 14.68 | 165  | 29346    | 6.340     | ng    | # 21   |
| 65) 4,6-Dinitro-2-methylphenol | 15.81 | 198  | 53       | 7.746     | ng    | # 33   |
| 67) 4-Bromophenyl-phenylether  | 16.17 | 248  | 29222    | 4.366     | ng    | # 1    |
| 77) Benzidine                  | 20.04 | 184  | 45801    | 2.764     | ng    | # 92   |

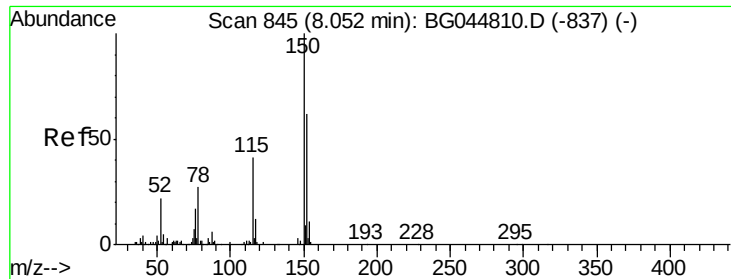
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG031720\  
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Sample : PB127518BL  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Mar 18 11:44:56 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG031020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Mar 16 17:37:15 2020  
Response via : Initial Calibration



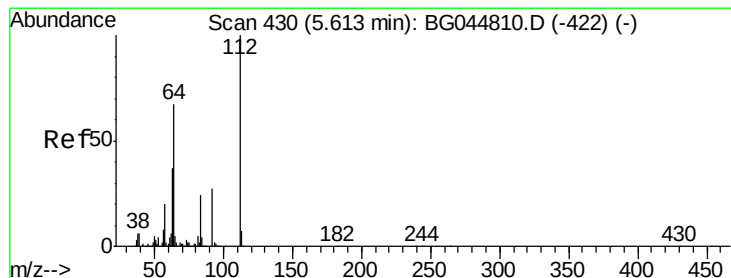
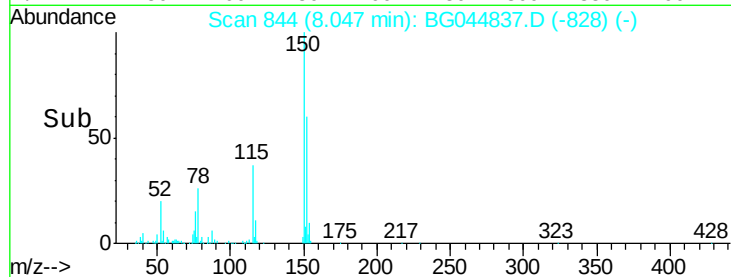
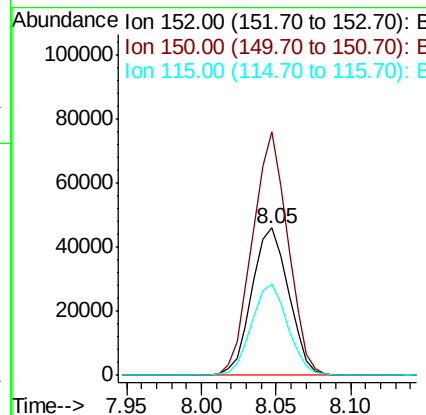
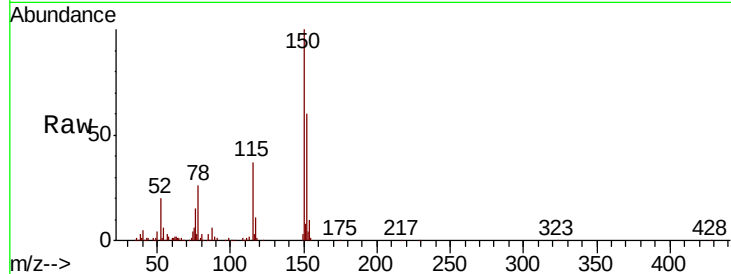


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.05 min Scan# 844  
Delta R.T. -0.00 min  
Lab File: BG044837.D  
Acq: 17 Mar 2020 17:52

Instrument :  
BNA\_G  
ClientSampleId :

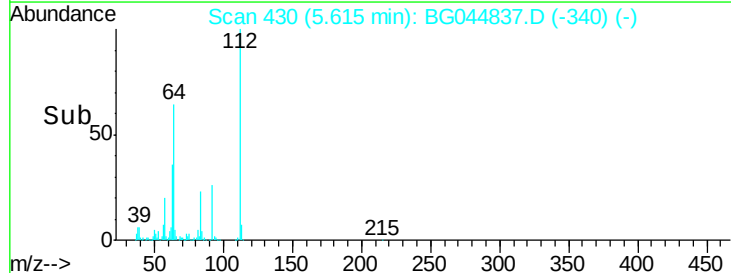
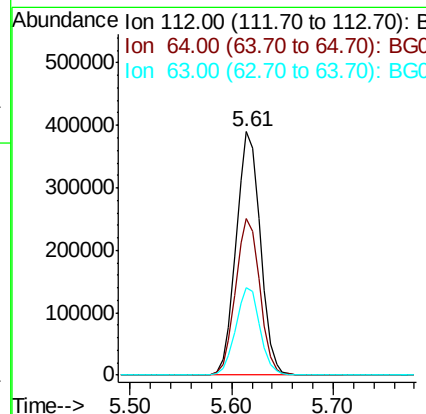
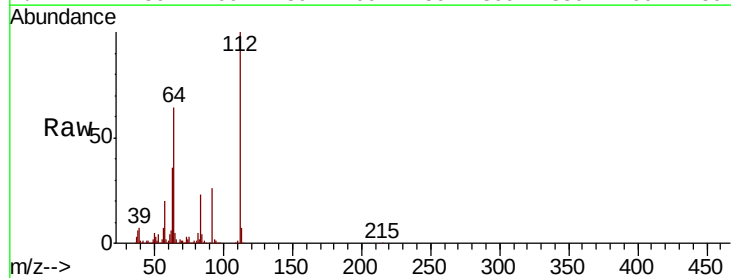
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 165.5 | 128.8 | 193.2 |
| 115     | 62.0  | 52.6  | 79.0  |

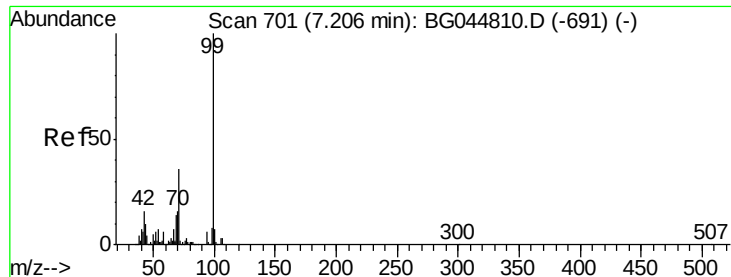


#5

2-Fluorophenol  
Concen: 127.912 ng  
RT: 5.61 min Scan# 430  
Delta R.T. 0.00 min  
Lab File: BG044837.D  
Acq: 17 Mar 2020 17:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 64.4  | 53.4  | 80.2  |
| 63      | 36.0  | 29.4  | 44.2  |





#7

Phenol-d6

Concen: 120.798 ng

RT: 7.20 min Scan# 700

Delta R.T. -0.00 min

Lab File: BG044837.D

Acq: 17 Mar 2020 17:52

Instrument :

BNA\_G

ClientSampleId :

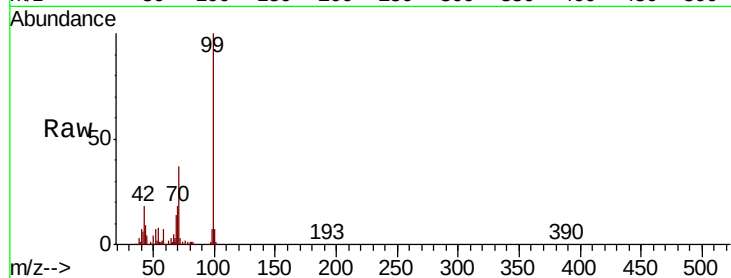
Tot Ion: 99 Resp: 884515

Ion Ratio Lower Upper

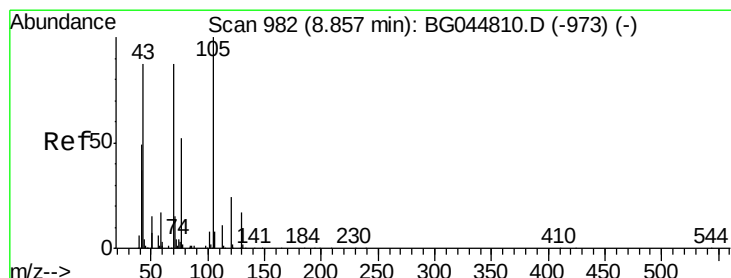
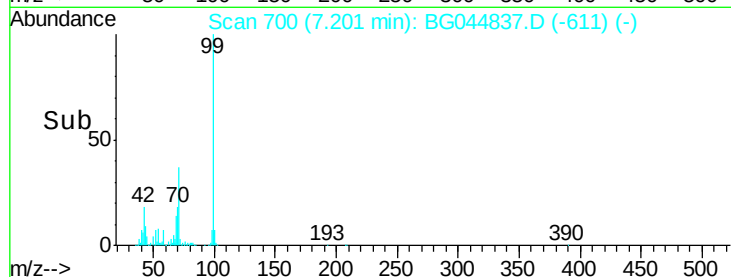
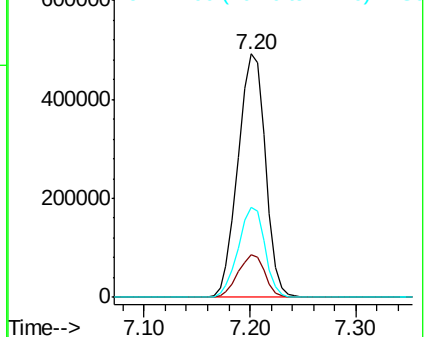
99 100

42 17.8 12.6 19.0

71 36.9 29.0 43.4



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: 14.640 ng

RT: 9.20 min Scan# 1041

Delta R.T. 0.35 min

Lab File: BG044837.D

Acq: 17 Mar 2020 17:52

Tgt Ion: 70 Resp: 75694

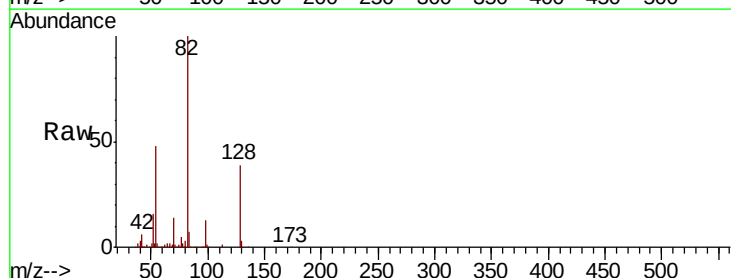
Ion Ratio Lower Upper

70 100

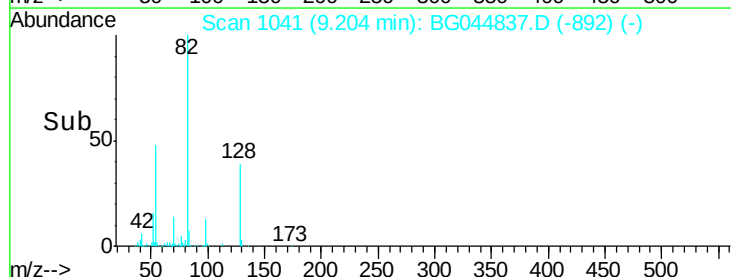
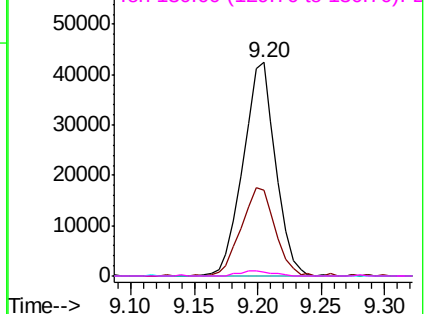
42 40.4 45.7 68.5#

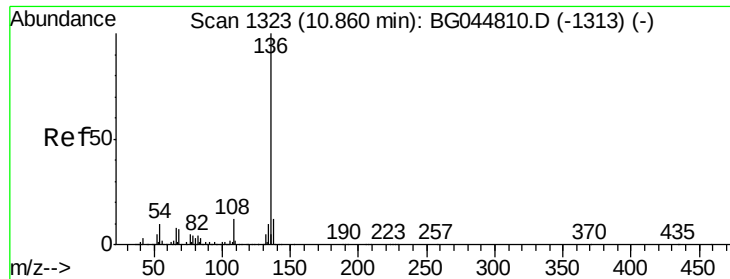
101 0.0 7.4 11.2#

130 1.8 15.9 23.9#



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

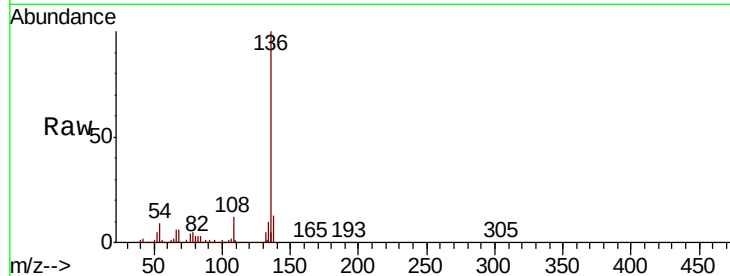




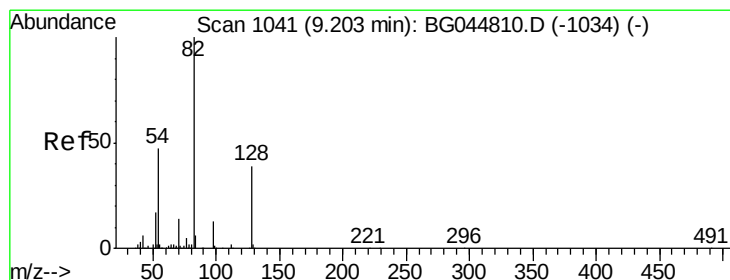
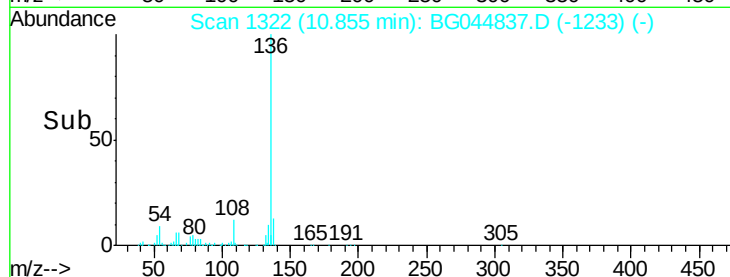
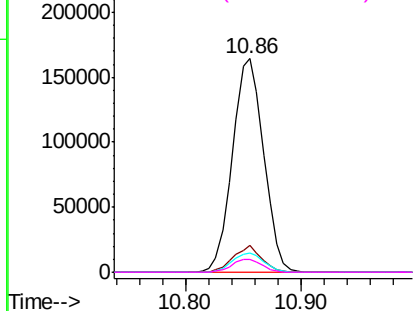
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.86 min Scan# 1322  
Delta R.T. -0.00 min  
Lab File: BG044837.D  
Acq: 17 Mar 2020 17:52

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 306174   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 12.5  | 9.8 14.6 |
| 54          | 8.9   | 7.9 11.9 |
| 68          | 6.3   | 5.4 8.0  |

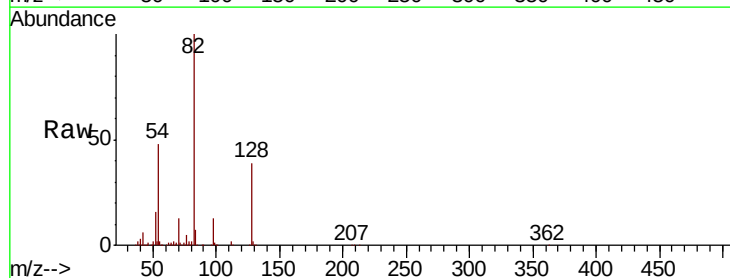


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

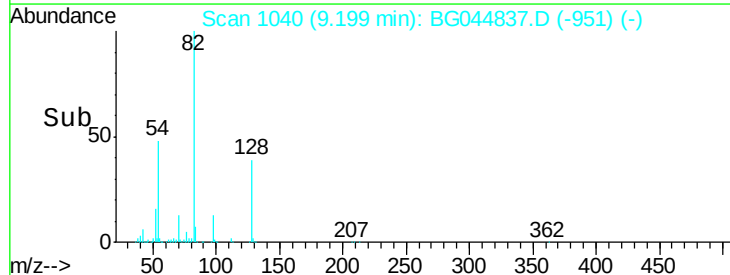
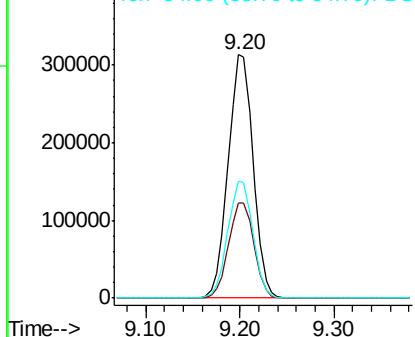


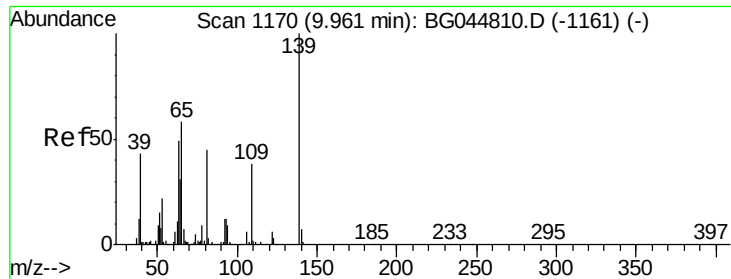
#23  
Nitrobenzene-d5  
Concen: 83.008 ng  
RT: 9.20 min Scan# 1040  
Delta R.T. -0.00 min  
Lab File: BG044837.D  
Acq: 17 Mar 2020 17:52

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 579173    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 38.9  | 30.6 46.0 |
| 54          | 48.3  | 37.1 55.7 |



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

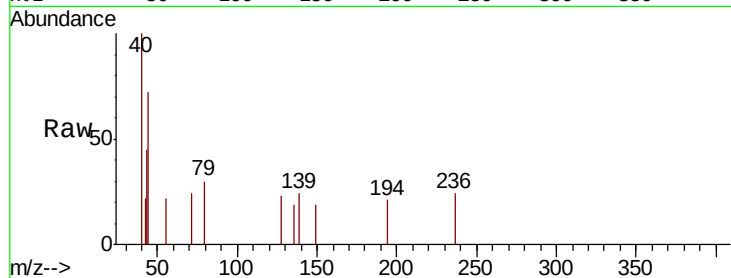




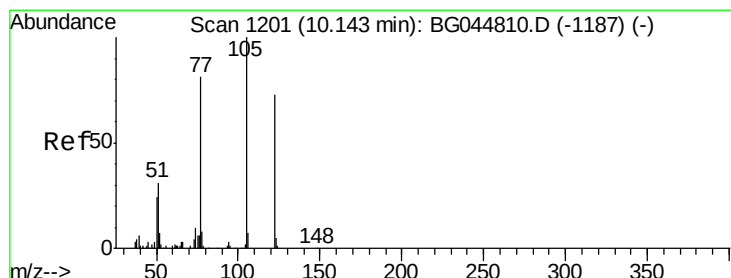
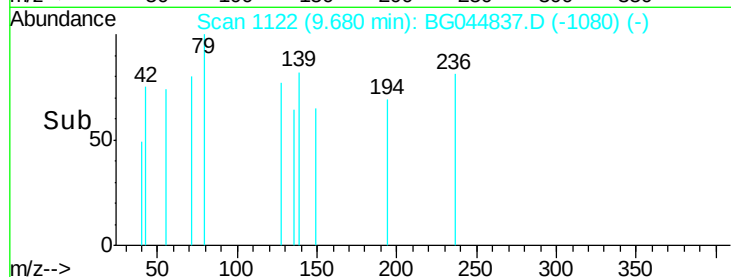
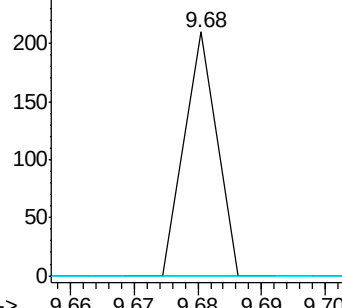
#26  
2-Nitrophenol  
Concen: 5.541 ng  
RT: 9.68 min Scan# 1122  
Delta R.T. -0.28 min  
Lab File: BG044837.D  
Acq: 17 Mar 2020 17:52

Instrument :  
BNA\_G  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 139     | 100   |       |       |
| 109     | 0.0   | 30.2  | 45.4# |
| 65      | 0.0   | 46.3  | 69.5# |

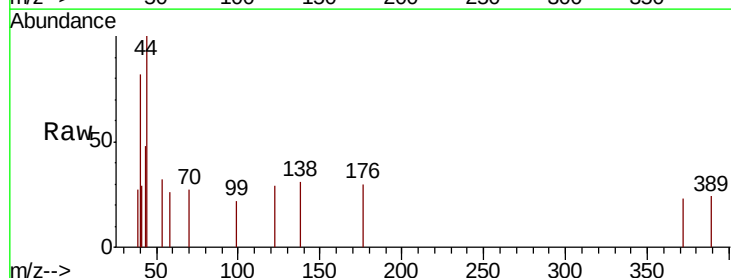


Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): BGC

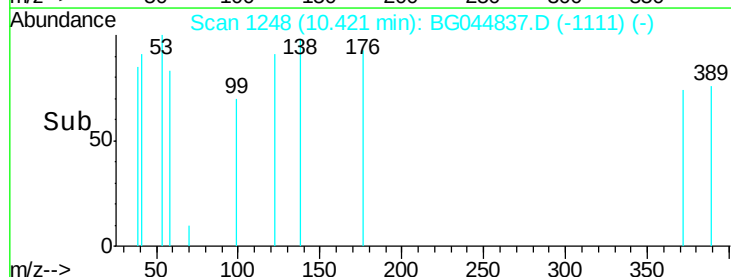
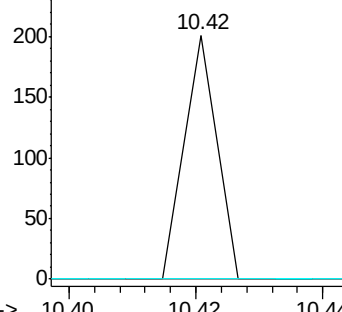


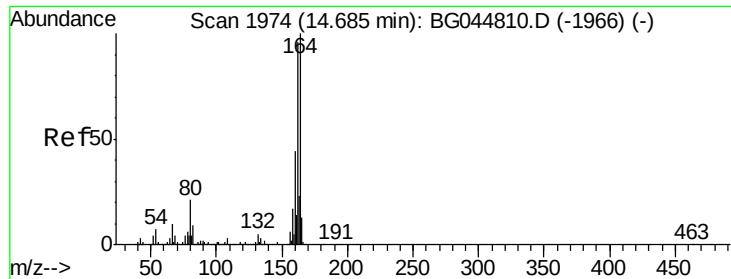
#32  
Benzoic acid  
Concen: 9.686 ng  
RT: 10.42 min Scan# 1248  
Delta R.T. 0.28 min  
Lab File: BG044837.D  
Acq: 17 Mar 2020 17:52

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 122     | 100   |       |        |
| 105     | 0.0   | 109.1 | 149.1# |
| 77      | 0.0   | 85.3  | 125.3# |



Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BGC





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.68 min Scan# 1973

Delta R.T. -0.00 min

Lab File: BG044837.D

Acq: 17 Mar 2020 17:52

Instrument :

BNA\_G

ClientSampleId :

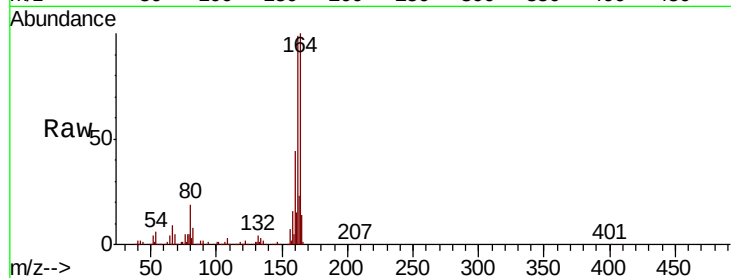
Tot Ion:164 Resp: 210228

Ion Ratio Lower Upper

164 100

162 98.6 76.7 115.1

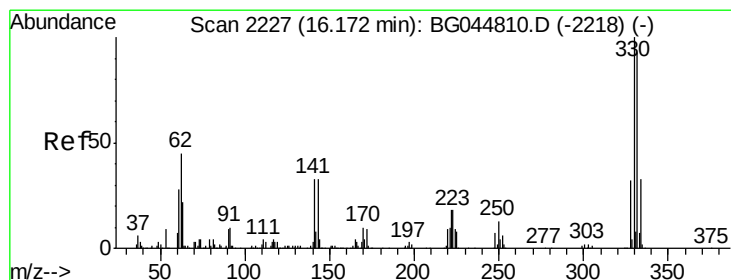
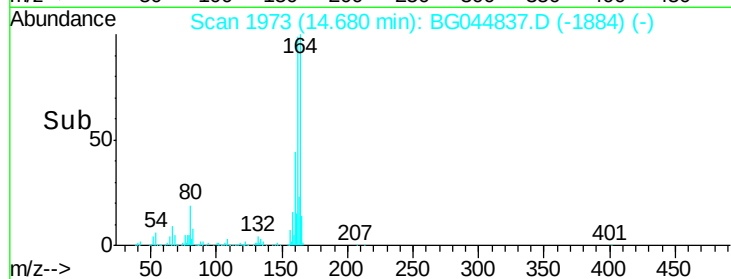
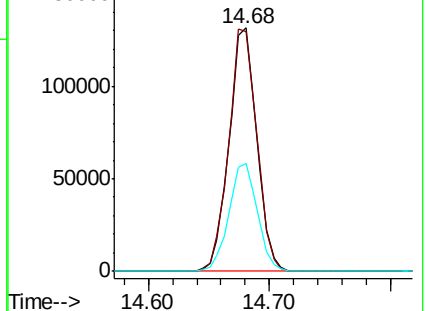
160 44.1 35.0 52.4



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: 153.678 ng

RT: 16.17 min Scan# 2226

Delta R.T. -0.00 min

Lab File: BG044837.D

Acq: 17 Mar 2020 17:52

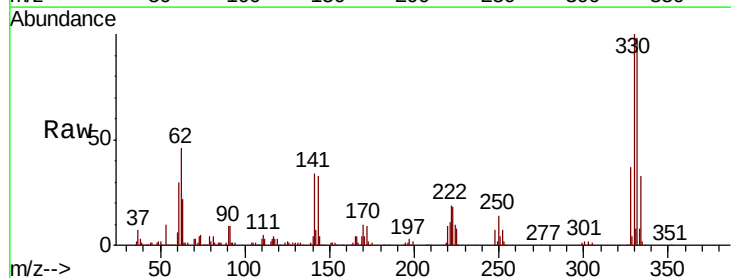
Tgt Ion:330 Resp: 423015

Ion Ratio Lower Upper

330 100

332 96.4 77.8 116.6

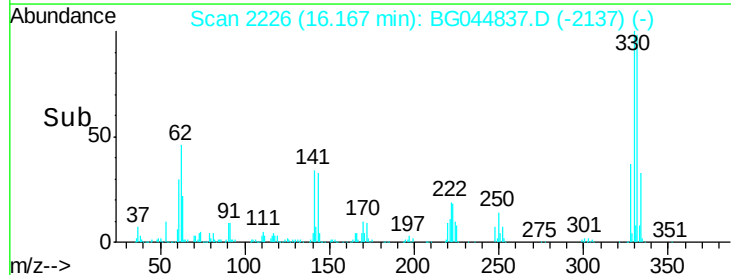
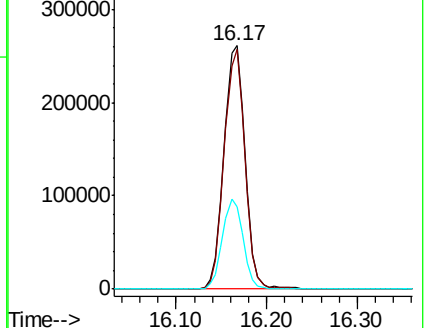
141 36.3 29.5 44.3

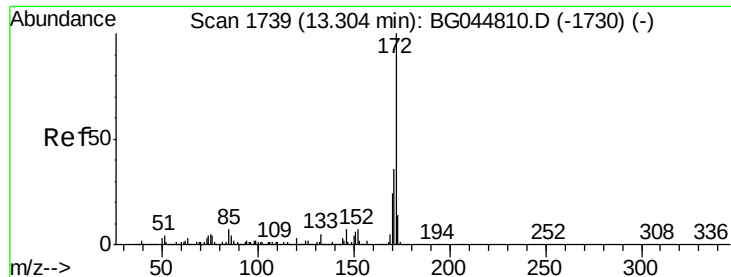


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

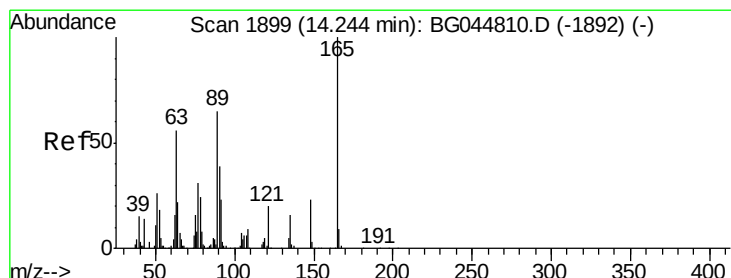
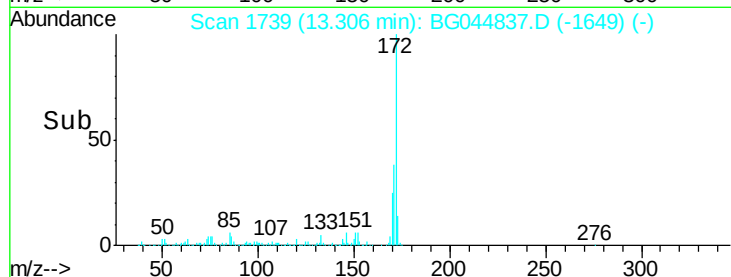
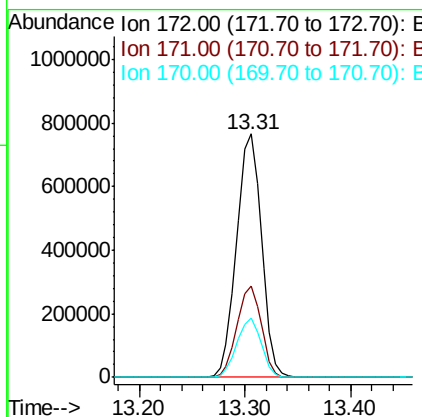
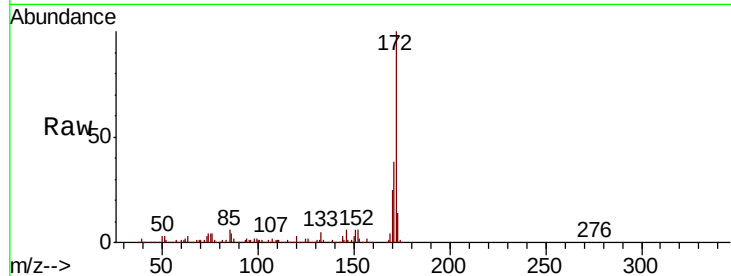




#45  
2-Fluorobiphenyl  
Concen: 84.817 ng  
RT: 13.31 min Scan# 1739  
Delta R.T. 0.00 min  
Lab File: BG044837.D  
Acq: 17 Mar 2020 17:52

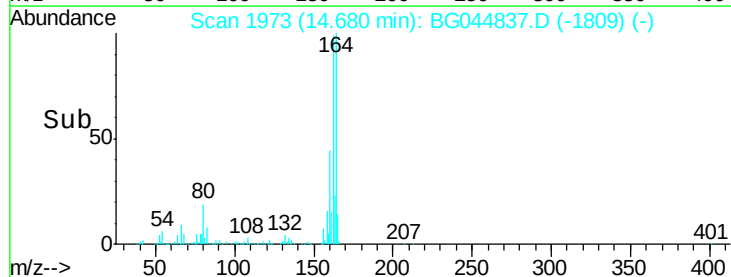
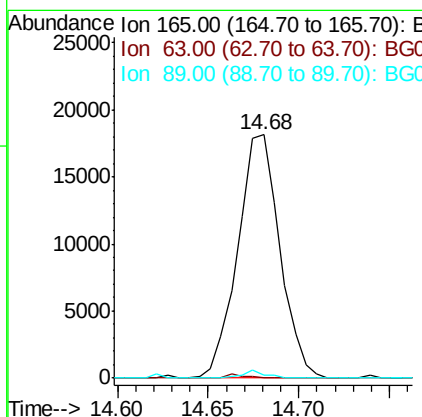
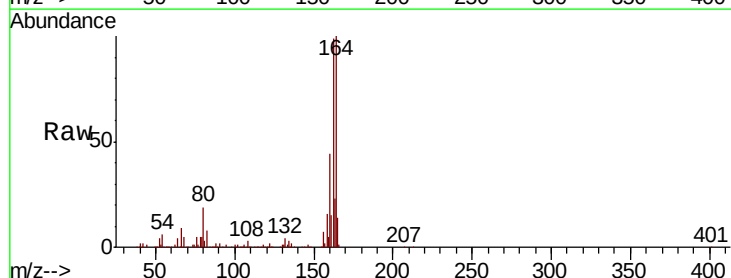
Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:172 Resp: 1245148  
Ion Ratio Lower Upper  
172 100  
171 37.5 28.7 43.1  
170 24.5 19.0 28.6

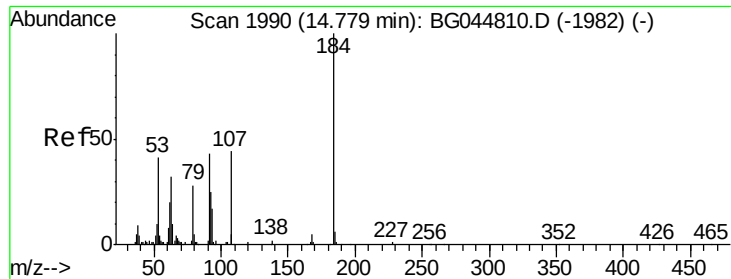


#51  
2,6-Dinitrotoluene  
Concen: 8.695 ng  
RT: 14.68 min Scan# 1973  
Delta R.T. 0.44 min  
Lab File: BG044837.D  
Acq: 17 Mar 2020 17:52

Tgt Ion:165 Resp: 29346  
Ion Ratio Lower Upper  
165 100  
63 0.0 45.8 68.8#  
89 1.4 51.8 77.6#



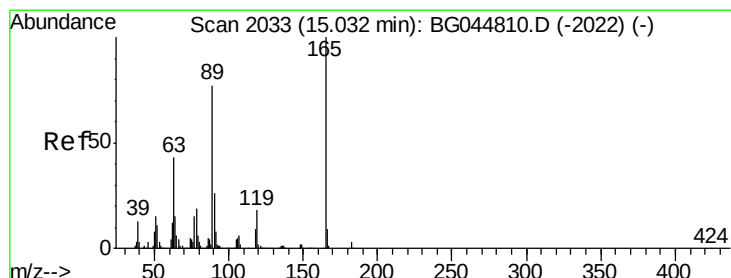
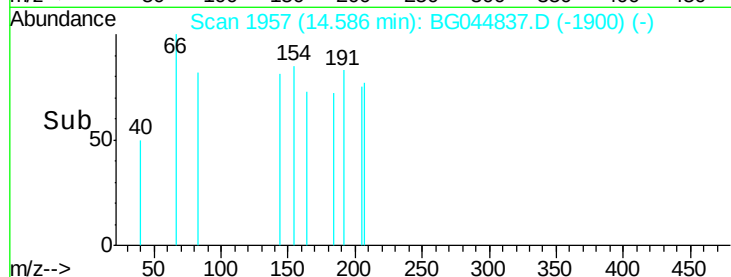
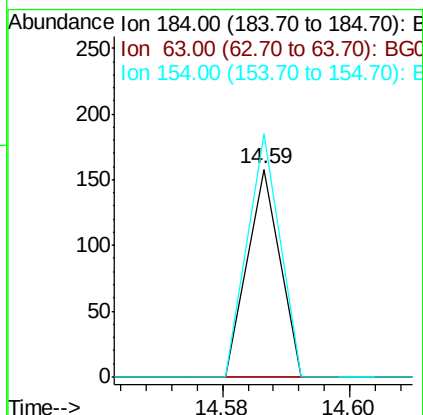
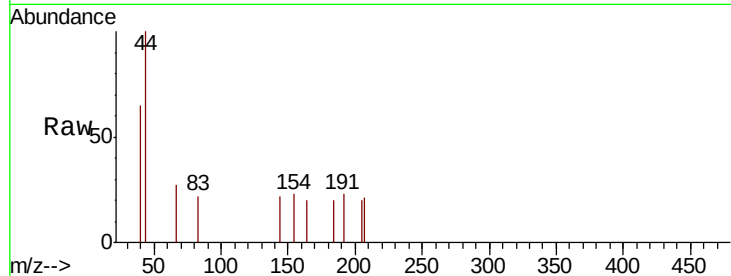




#54  
2,4-Dinitrophenol  
Concen: 8.351 ng  
RT: 14.59 min Scan# 1957  
Delta R.T. -0.19 min  
Lab File: BG044837.D  
Acq: 17 Mar 2020 17:52

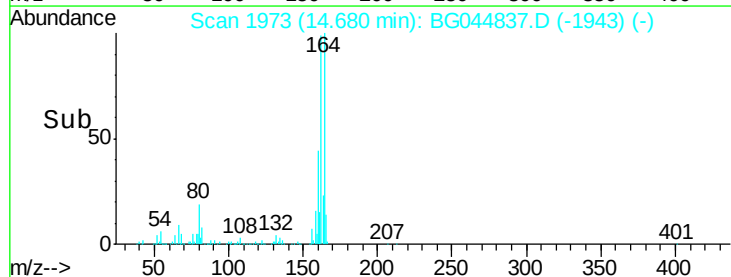
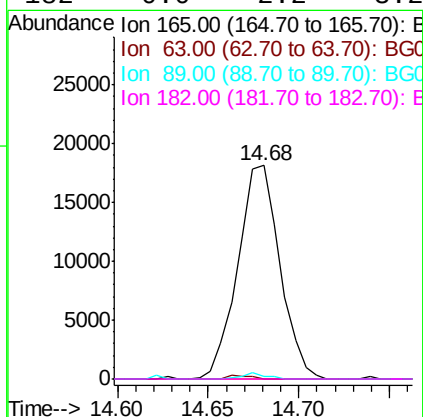
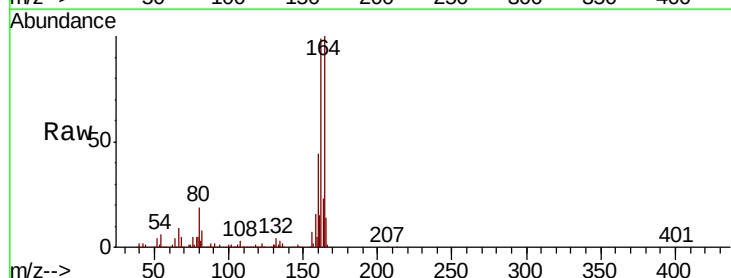
Instrument :  
BNA\_G  
ClientSampleId :

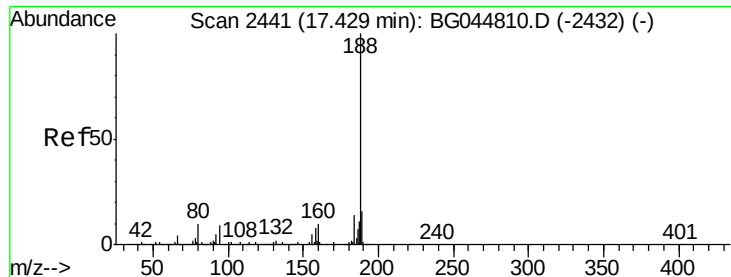
Tot Ion:184 Resp: 56  
Ion Ratio Lower Upper  
184 100  
63 0.0 45.5 68.3#  
154 117.1 49.1 73.7#



#57  
2,4-Dinitrotoluene  
Concen: 6.340 ng  
RT: 14.68 min Scan# 1973  
Delta R.T. -0.35 min  
Lab File: BG044837.D  
Acq: 17 Mar 2020 17:52

Tgt Ion:165 Resp: 29346  
Ion Ratio Lower Upper  
165 100  
63 0.0 34.6 52.0#  
89 1.4 61.3 91.9#  
182 0.0 2.2 3.2#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.42 min Scan# 2440

Delta R.T. -0.00 min

Lab File: BG044837.D

Acq: 17 Mar 2020 17:52

Instrument :

BNA\_G

ClientSampleId :

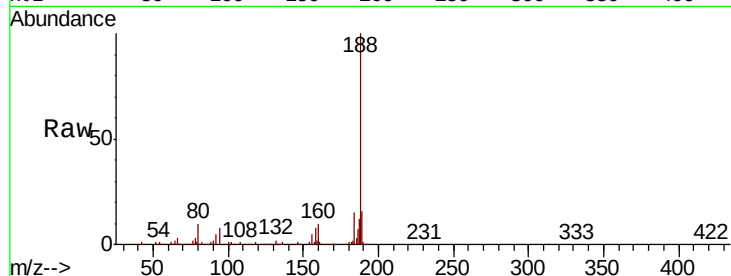
Tot Ion:188 Resp: 535355

Ion Ratio Lower Upper

188 100

94 7.8 7.3 10.9

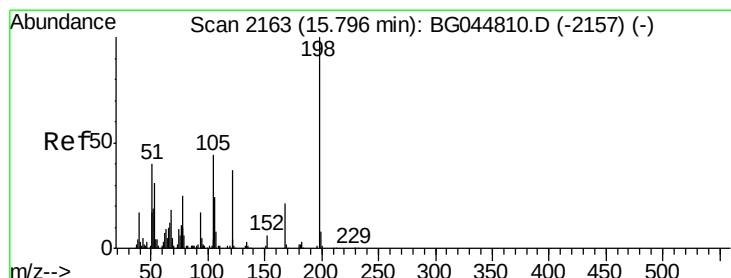
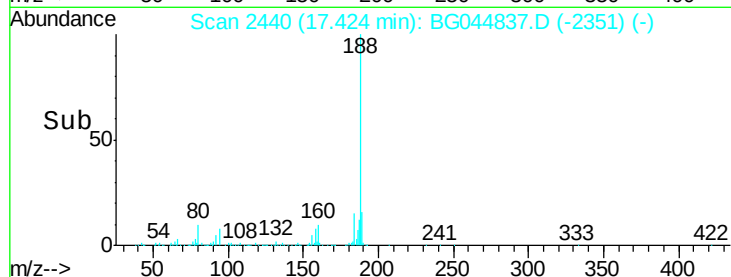
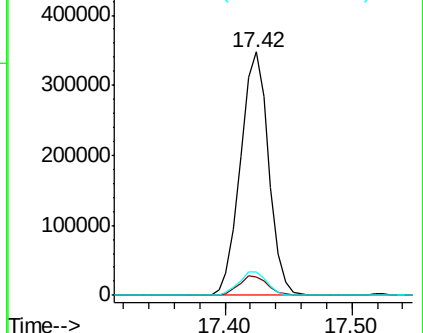
80 9.7 8.0 12.0



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



#65

4,6-Dinitro-2-methylphenol

Concen: 7.746 ng

RT: 15.81 min Scan# 2165

Delta R.T. 0.01 min

Lab File: BG044837.D

Acq: 17 Mar 2020 17:52

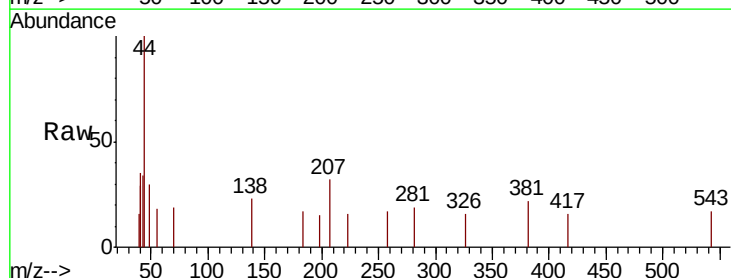
Tgt Ion:198 Resp: 53

Ion Ratio Lower Upper

198 100

51 0.0 21.1 61.1#

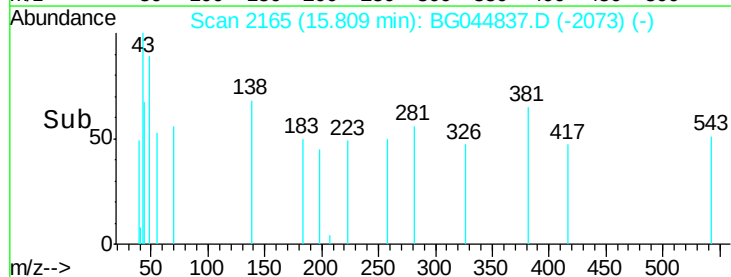
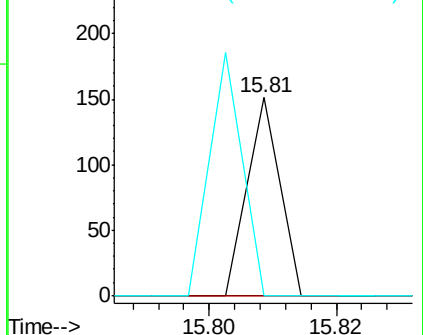
105 0.0 24.5 64.5#

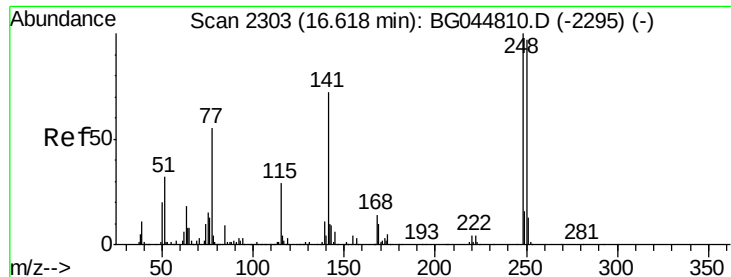


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BG

Ion 105.00 (104.70 to 105.70): E

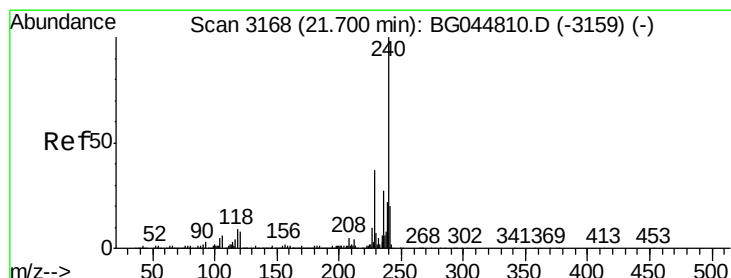
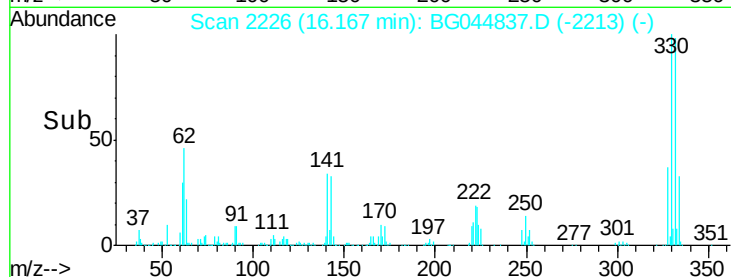
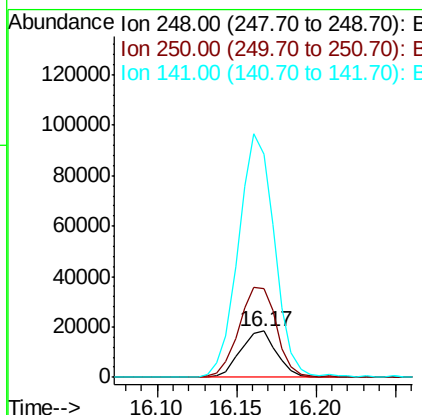
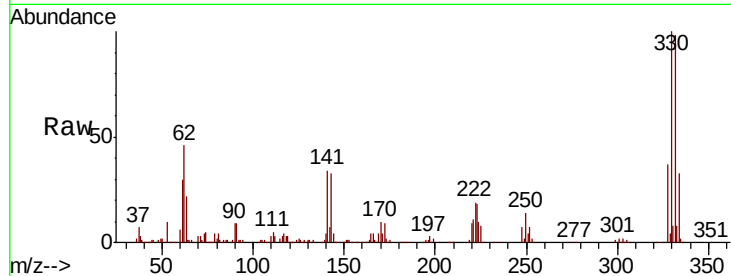




#67  
 4-Bromophenyl-phenylether  
 Concen: 4.366 ng  
 RT: 16.17 min Scan# 2226  
 Delta R.T. -0.45 min  
 Lab File: BG044837.D  
 Acq: 17 Mar 2020 17:52

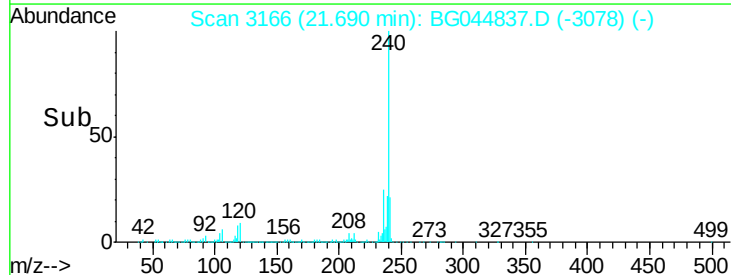
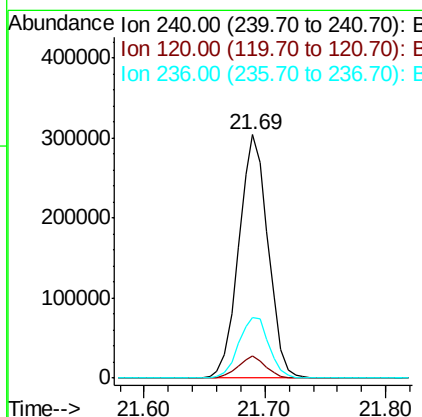
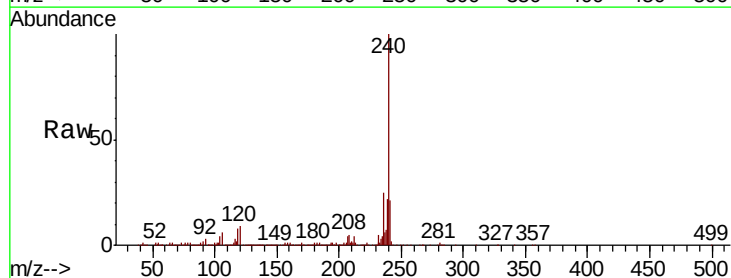
Instrument :  
 BNA\_G  
 ClientSampleId :

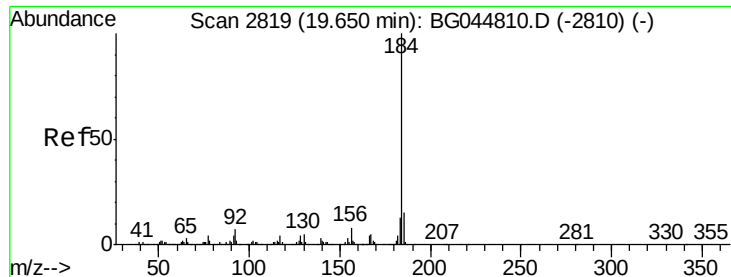
Tot Ion:248 Resp: 29222  
 Ion Ratio Lower Upper  
 248 100  
 250 192.6 77.9 116.9#  
 141 480.9 57.5 86.3#



#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.69 min Scan# 3166  
 Delta R.T. -0.01 min  
 Lab File: BG044837.D  
 Acq: 17 Mar 2020 17:52

Tgt Ion:240 Resp: 510374  
 Ion Ratio Lower Upper  
 240 100  
 120 8.9 6.7 10.1  
 236 25.0 21.5 32.3





#77

Benzidine

Concen: 2.764 ng

RT: 20.04 min Scan# 2885

Delta R.T. 0.39 min

Lab File: BG044837.D

Acq: 17 Mar 2020 17:52

Instrument :

BNA\_G

ClientSampleId :

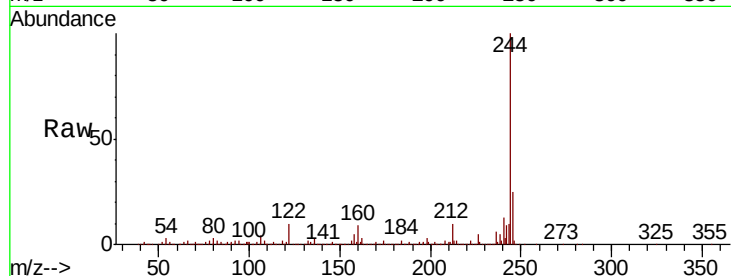
Tot Ion:184 Resp: 45801

Ion Ratio Lower Upper

184 100

185 16.0 12.2 18.4

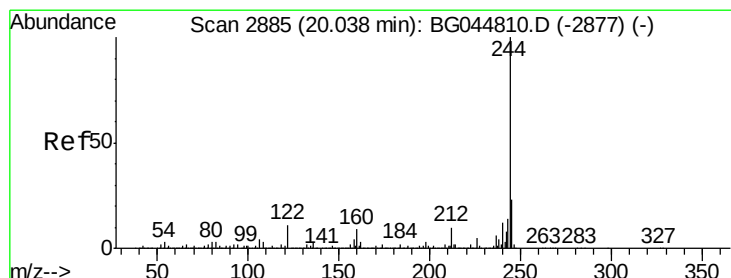
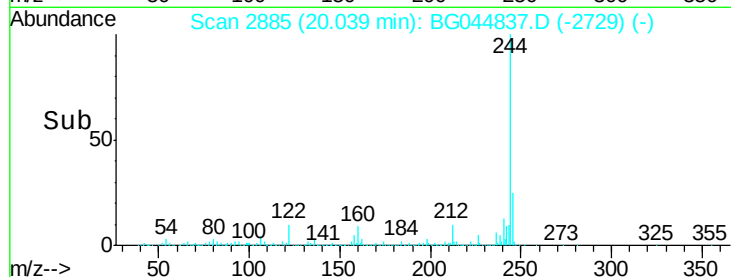
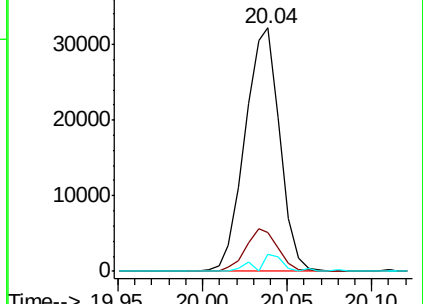
183 6.9 10.7 16.1#



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: 85.074 ng

RT: 20.04 min Scan# 2885

Delta R.T. 0.00 min

Lab File: BG044837.D

Acq: 17 Mar 2020 17:52

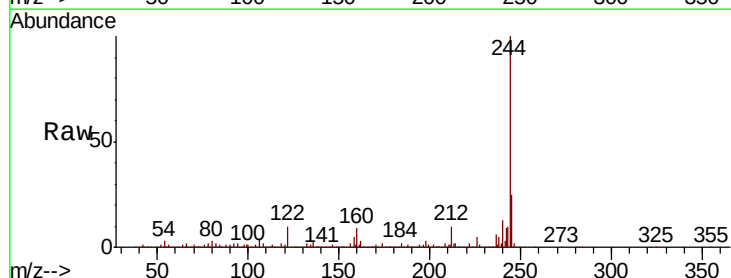
Tgt Ion:244 Resp: 2321233

Ion Ratio Lower Upper

244 100

212 10.0 7.7 11.5

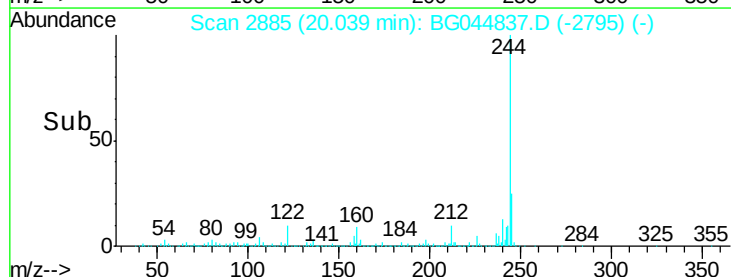
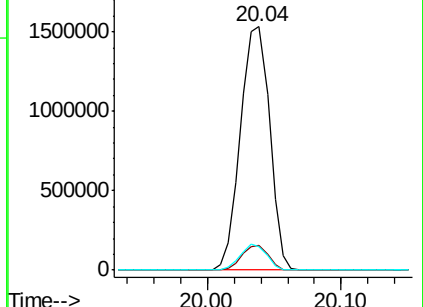
122 9.8 8.6 12.8

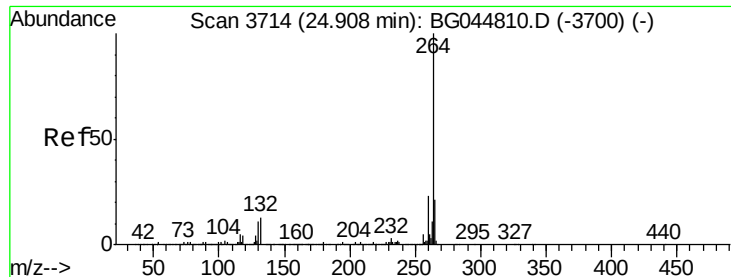


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

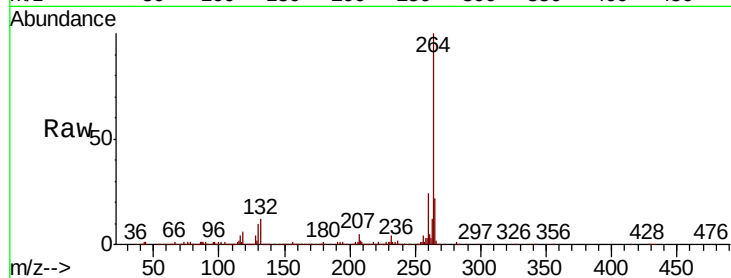




#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 24.90 min Scan# 3712  
Delta R.T. -0.01 min  
Lab File: BG044837.D  
Acq: 17 Mar 2020 17:52

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 18.1  | 27.1  |
| 265     | 22.3  | 17.1  | 25.7  |



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

