

Data Path : Z:\HPCHEM1\BNA G\DATA\BG021518\  
 Data File : BG032724.D  
 Acq On : 15 Feb 2018 21:41  
 Operator : SJ/JU  
 Sample : J1559-03  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Feb 16 02:26:44 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG021218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 12 18:08:01 2018  
 Response via : Initial Calibration

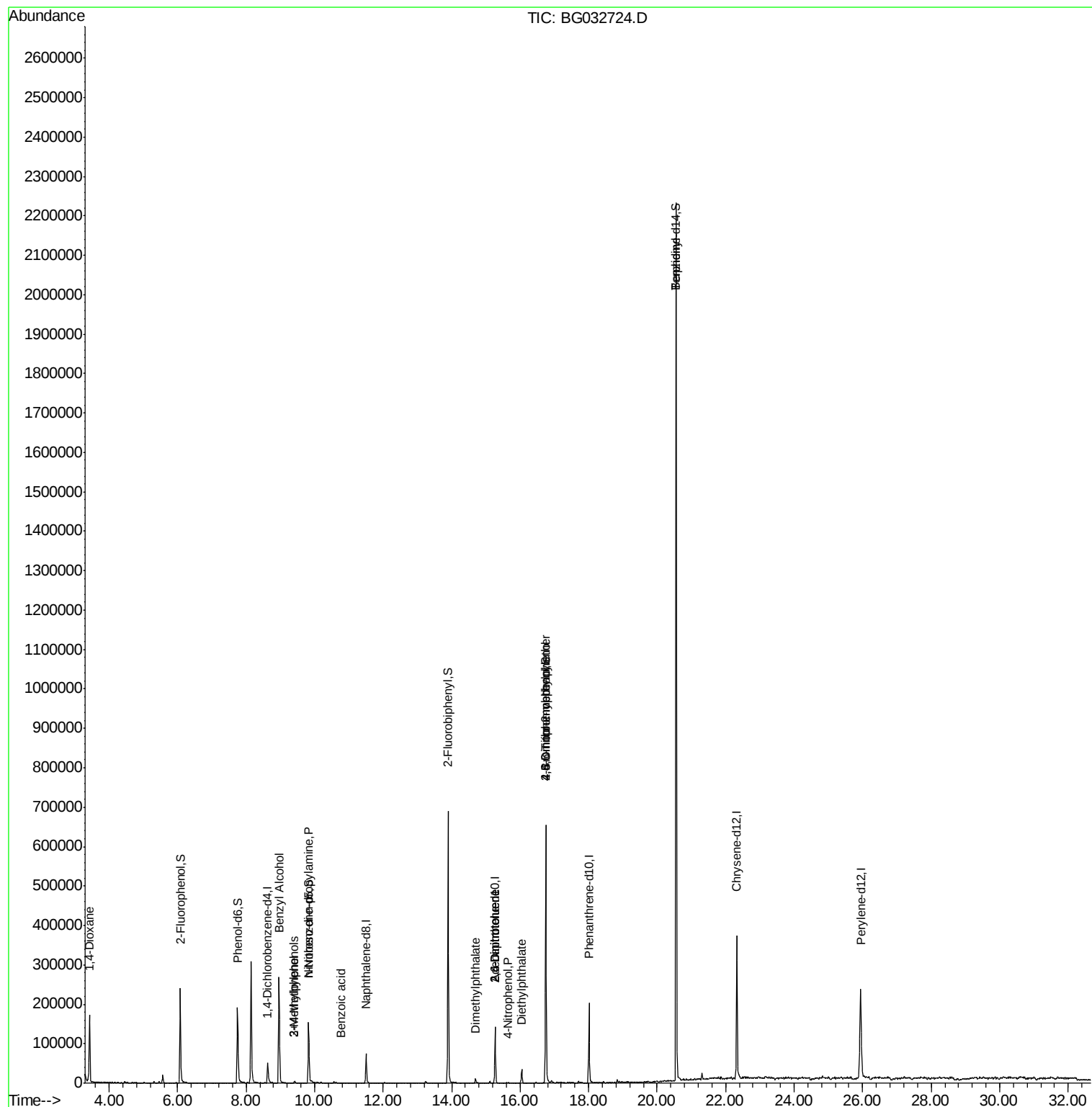
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.63  | 152  | 20834    | 20.00  | ng    | -0.05    |
| 21) Naphthalene-d8             | 11.50 | 136  | 80048    | 20.00  | ng    | -0.05    |
| 38) Acenaphthene-d10           | 15.27 | 164  | 57375    | 20.00  | ng    | -0.04    |
| 63) Phenanthrene-d10           | 18.01 | 188  | 152291   | 20.00  | ng    | -0.04    |
| 75) Chrysene-d12               | 22.33 | 240  | 292228   | 20.00  | ng    | -0.04    |
| 86) Perylene-d12               | 25.94 | 264  | 314291   | 20.00  | ng    | -0.08    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.08  | 112  | 133103   | 128.18 | ng    | -0.04    |
| 7) Phenol-d6                   | 7.75  | 99   | 129604   | 91.28  | ng    | -0.04    |
| 23) Nitrobenzene-d5            | 9.82  | 82   | 113439   | 90.07  | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol       | 16.75 | 330  | 176539   | 199.83 | ng    | -0.04    |
| 44) 2-Fluorobiphenyl           | 13.90 | 172  | 413318   | 90.09  | ng    | -0.04    |
| 78) Terphenyl-d14              | 20.56 | 244  | 1268918  | 98.97  | ng    | -0.03    |
| Target Compounds               |       |      |          |        |       |          |
| 2) 1,4-Dioxane                 | 3.43  | 88   | 1790     | 4.12   | ng    | # 1      |
| 15) Benzyl Alcohol             | 8.96  | 79   | 2384     | 2.24   | ng    | # 16     |
| 17) 2-Methylphenol             | 9.40  | 107  | 4200     | 4.29   | ng    | # 81     |
| 19) n-Nitroso-di-n-propylamine | 9.82  | 70   | 15677    | 16.42  | ng    | # 70     |
| 20) 3+4-Methylphenols          | 9.40  | 107  | 4200     | 2.84   | ng    | # 93     |
| 32) Benzoic acid               | 10.76 | 122  | 71       | 4.47   | ng    | # 46     |
| 49) Dimethylphthalate          | 14.70 | 163  | 10017    | 2.02   | ng    | # 95     |
| 50) 2,6-Dinitrotoluene         | 15.27 | 165  | 7496     | 7.34   | ng    | # 21     |
| 55) 4-Nitrophenol              | 15.63 | 139  | 62       | 5.57   | ng    | # 1      |
| 56) 2,4-Dinitrotoluene         | 15.27 | 165  | 7496     | 5.33   | ng    | # 20     |
| 59) Diethylphthalate           | 16.05 | 149  | 20435    | 4.23   | ng    | # 98     |
| 64) 4,6-Dinitro-2-methylphenol | 16.75 | 198  | 295      | 5.26   | ng    | # 55     |
| 66) 4-Bromophenyl-phenylether  | 16.75 | 248  | 12435    | 5.71   | ng    | # 1      |
| 76) Benzidine                  | 20.55 | 184  | 18548    | 2.70   | ng    | # 89     |

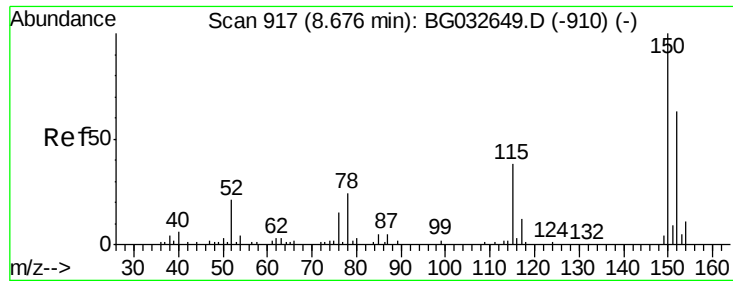
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA G\DATA\BG021518\  
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Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Feb 16 02:26:44 2018  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG021218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Feb 12 18:08:01 2018  
Response via : Initial Calibration



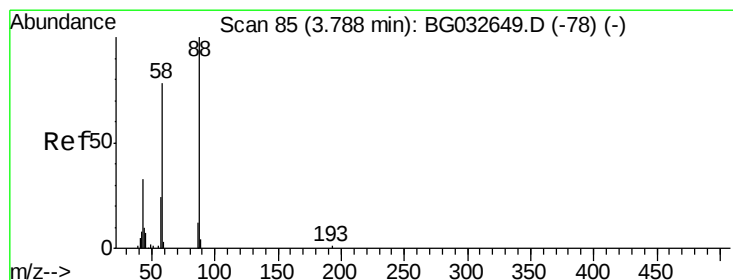
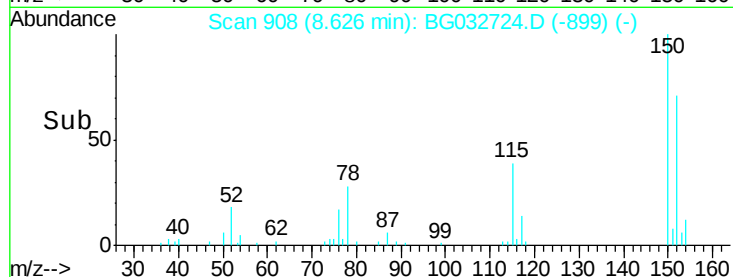
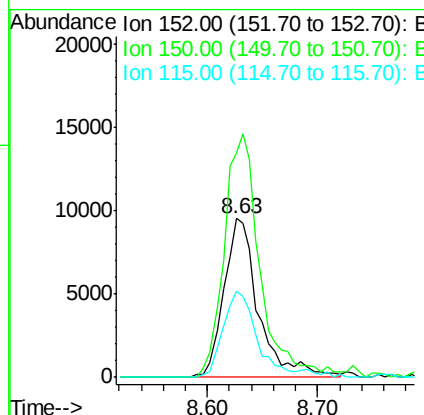
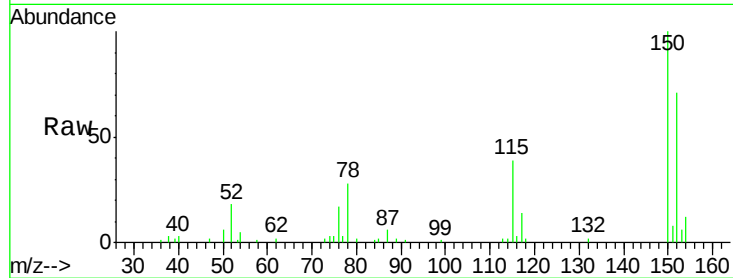


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.63 min Scan# 908  
Delta R.T. -0.05 min  
Lab File: BG032724.D  
Acq: 15 Feb 2018 21:41

Instrument :  
BNA\_G  
ClientSampleId :

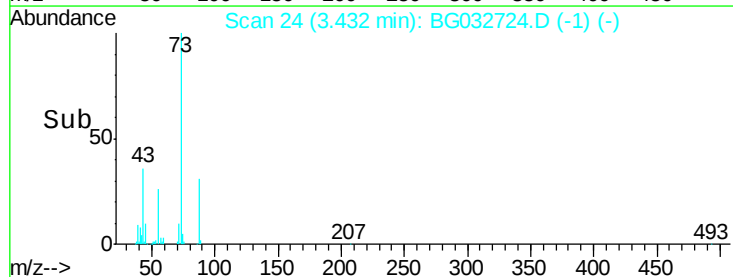
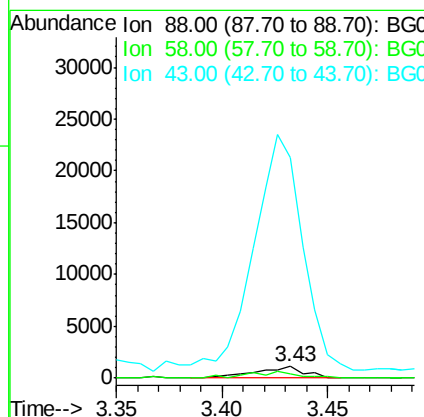
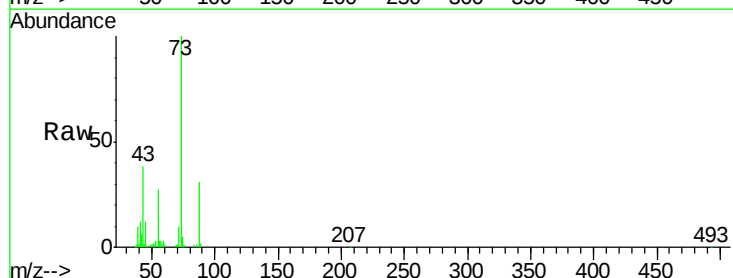
Tot Ion:152 Resp: 20834  
Ion Ratio Lower Upper  
152 100  
150 141.4 126.6 189.8  
115 54.7 53.0 79.4

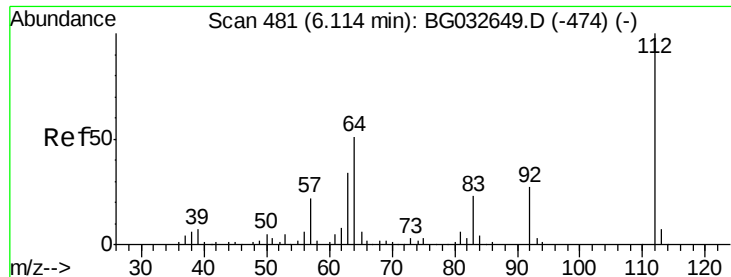


#2

1,4-Dioxane  
Concen: 4.12 ng  
RT: 3.43 min Scan# 24  
Delta R.T. -0.36 min  
Lab File: BG032724.D  
Acq: 15 Feb 2018 21:41

Tgt Ion: 88 Resp: 1790  
Ion Ratio Lower Upper  
88 100  
58 57.2 79.6 119.4#  
43 2071.8 27.4 41.0#





#5

2-Fluorophenol

Concen: 128.18 ng

RT: 6.08 min Scan# 474

Delta R.T. -0.04 min

Lab File: BG032724.D

Acq: 15 Feb 2018 21:41

Instrument :

BNA\_G

ClientSampleId :

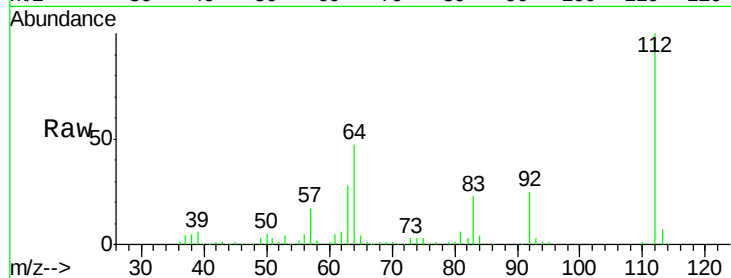
Tot Ion:112 Resp: 133103

Ion Ratio Lower Upper

112 100

64 47.1 56.3 84.5#

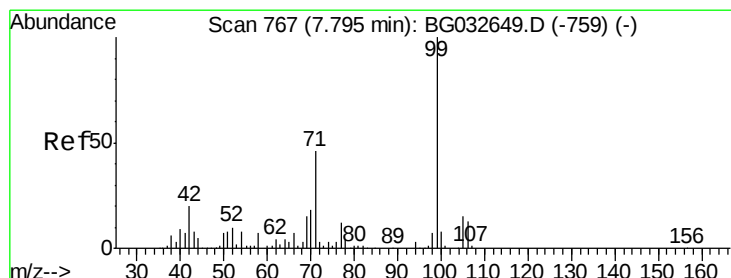
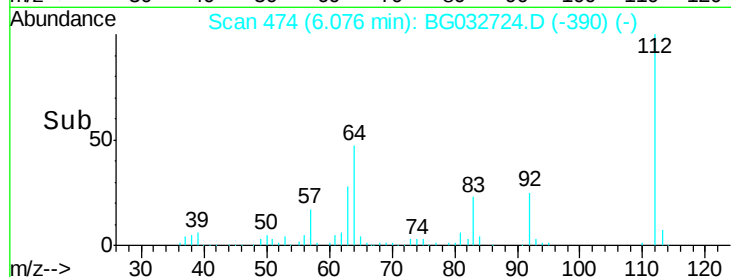
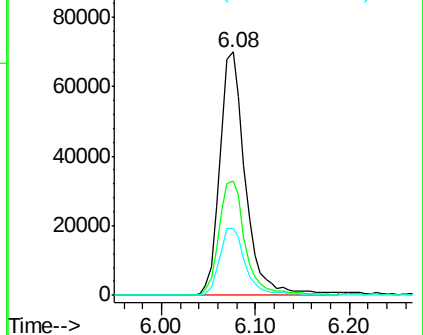
63 27.8 30.1 45.1#



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: 91.28 ng

RT: 7.75 min Scan# 759

Delta R.T. -0.04 min

Lab File: BG032724.D

Acq: 15 Feb 2018 21:41

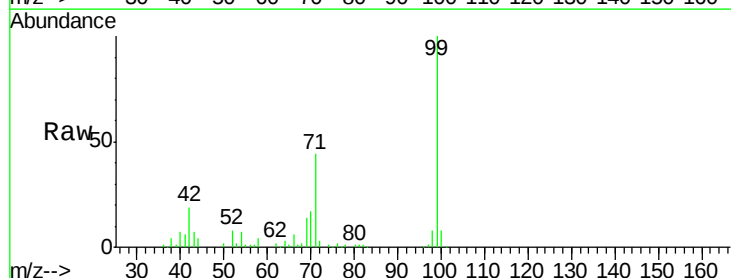
Tgt Ion: 99 Resp: 129604

Ion Ratio Lower Upper

99 100

42 18.8 14.1 21.1

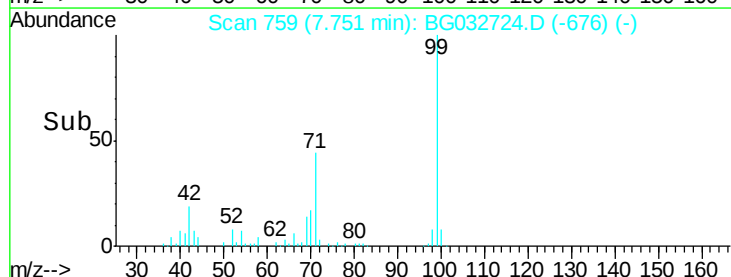
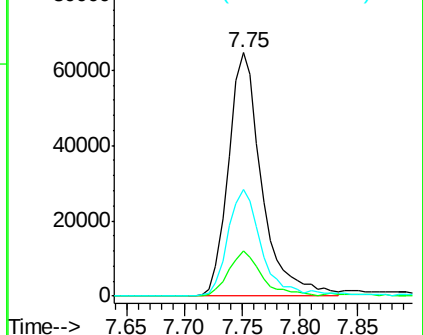
71 43.8 26.1 39.1#

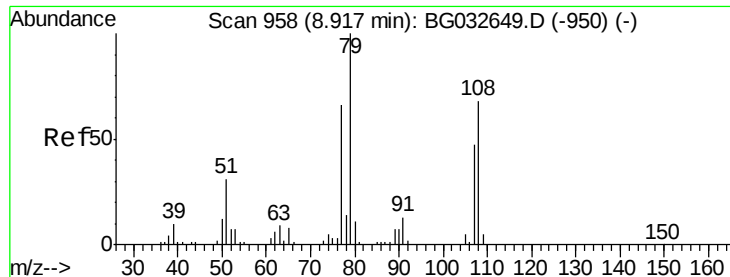


Abundance Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC





#15

Benzyl Alcohol

Concen: 2.24 ng

RT: 8.96 min Scan# 965

Delta R.T. 0.04 min

Lab File: BG032724.D

Acq: 15 Feb 2018 21:41

Instrument :

BNA\_G

ClientSampled :

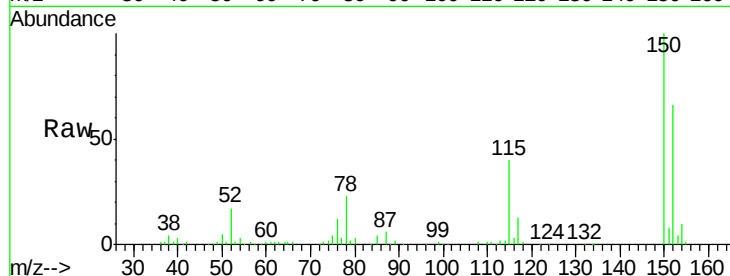
Tot Ion: 79 Resp: 2384

Ion Ratio Lower Upper

79 100

108 39.7 57.2 85.8#

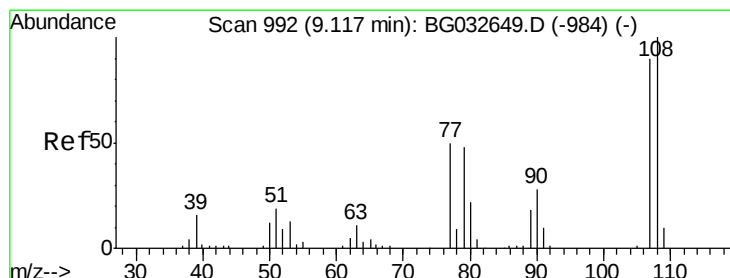
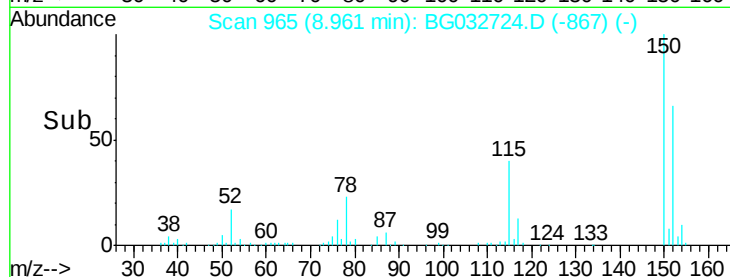
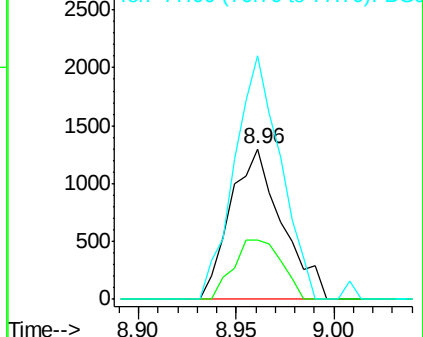
77 161.5 46.1 69.1#



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



#17

2-Methylphenol

Concen: 4.29 ng

RT: 9.40 min Scan# 1040

Delta R.T. 0.29 min

Lab File: BG032724.D

Acq: 15 Feb 2018 21:41

Tgt Ion: 107 Resp: 4200

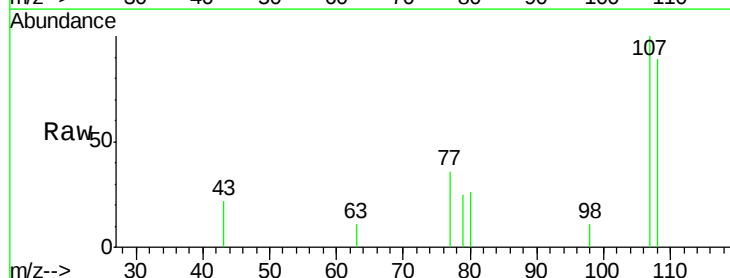
Ion Ratio Lower Upper

107 100

108 88.5 83.9 125.9

77 35.9 37.2 55.8#

79 24.8 36.2 54.2#

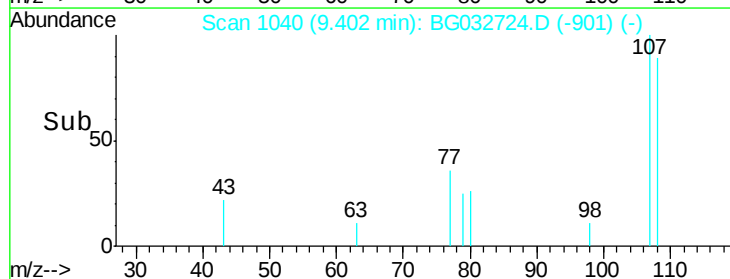
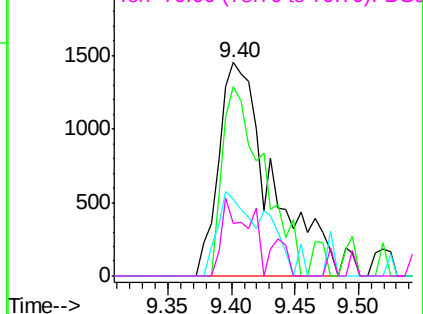


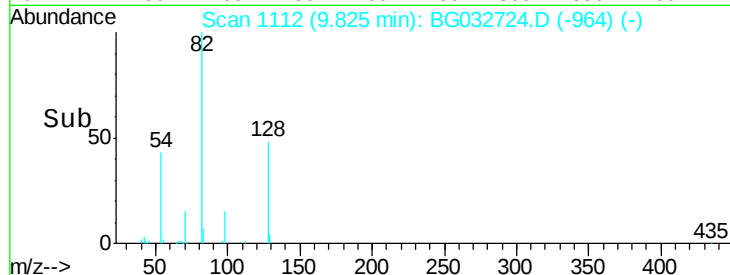
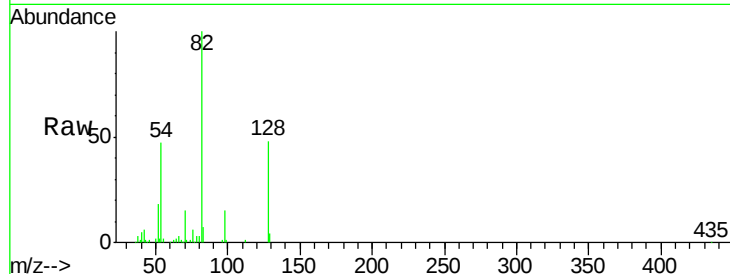
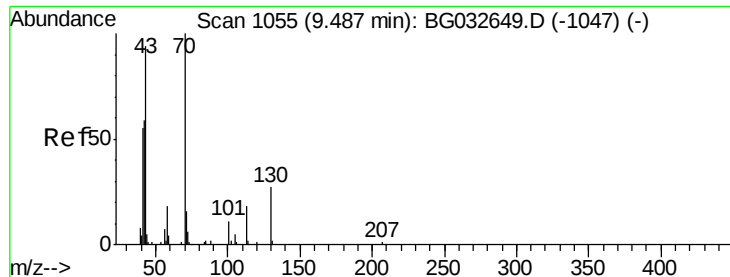
Abundance Ion 107.00 (106.70 to 107.70): BGC

Ion 108.00 (107.70 to 108.70): BGC

Ion 77.00 (76.70 to 77.70): BGC

Ion 79.00 (78.70 to 79.70): BGC

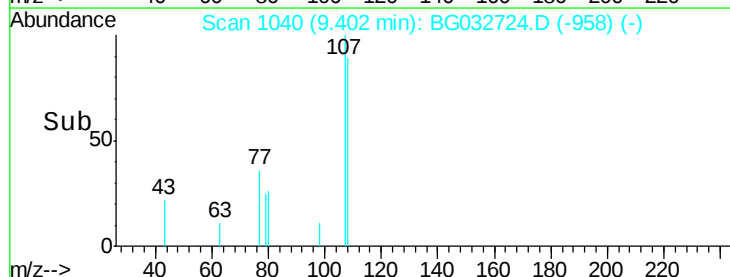
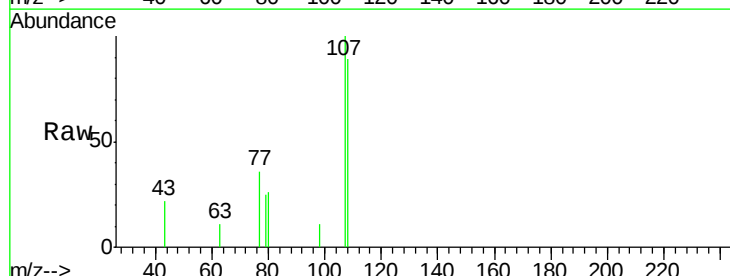
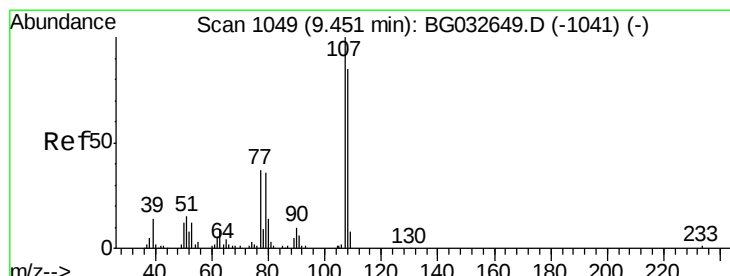
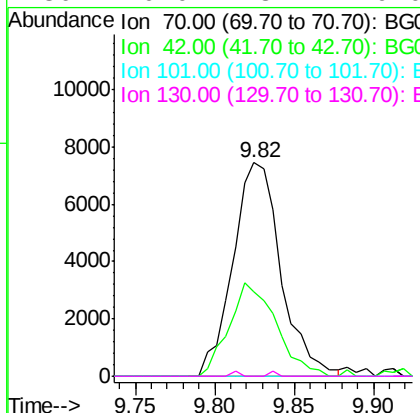




#19  
n-Nitroso-di-n-propylamine  
Concen: 16.42 ng  
RT: 9.82 min Scan# 1112  
Delta R.T. 0.34 min  
Lab File: BG032724.D  
Acq: 15 Feb 2018 21:41

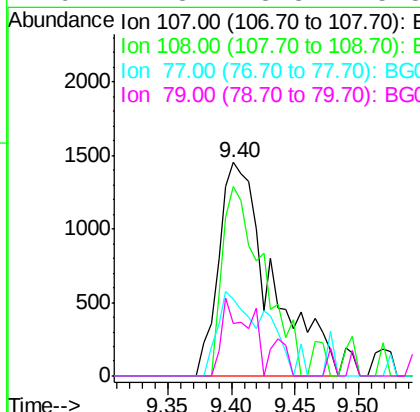
Instrument :  
BNA\_G  
ClientSampleId :

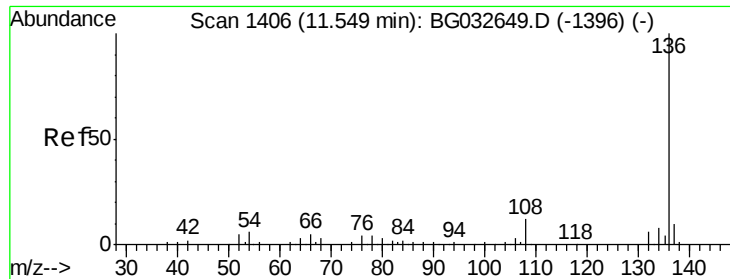
Tot Ion: 70 Resp: 15677  
Ion Ratio Lower Upper  
70 100  
42 39.5 49.1 73.7#  
101 0.0 8.5 12.7#  
130 0.0 13.4 20.0#



#20  
3+4-Methylphenols  
Concen: 2.84 ng  
RT: 9.40 min Scan# 1040  
Delta R.T. -0.05 min  
Lab File: BG032724.D  
Acq: 15 Feb 2018 21:41

Tgt Ion: 107 Resp: 4200  
Ion Ratio Lower Upper  
107 100  
108 88.5 61.6 101.6  
77 35.9 13.9 53.9  
79 24.8 8.8 48.8

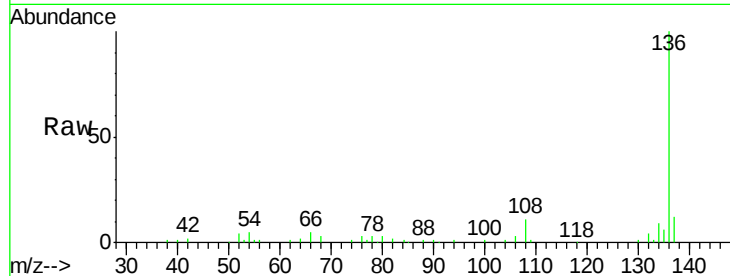




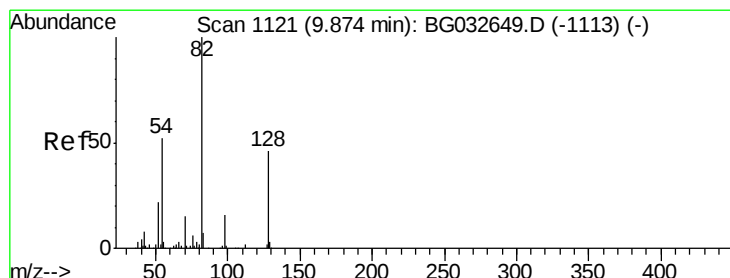
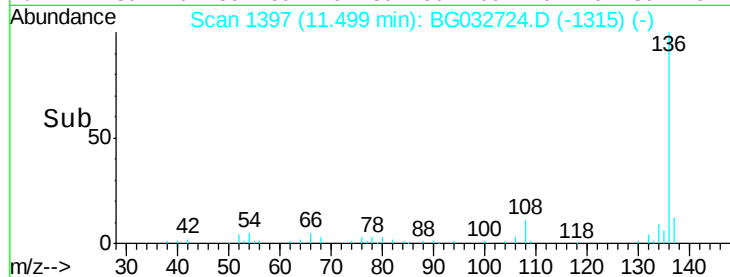
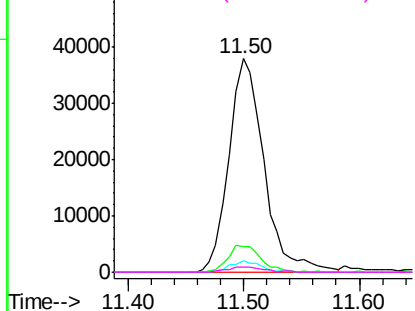
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 11.50 min Scan# 1397  
Delta R.T. -0.05 min  
Lab File: BG032724.D  
Acq: 15 Feb 2018 21:41

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tot Ion:136 | Resp: | 80048      |
| Ion Ratio   | Lower | Upper      |
| 136         | 100   |            |
| 137         | 12.0  | 9.2 13.8   |
| 54          | 5.1   | 10.3 15.5# |
| 68          | 2.6   | 4.5 6.7#   |

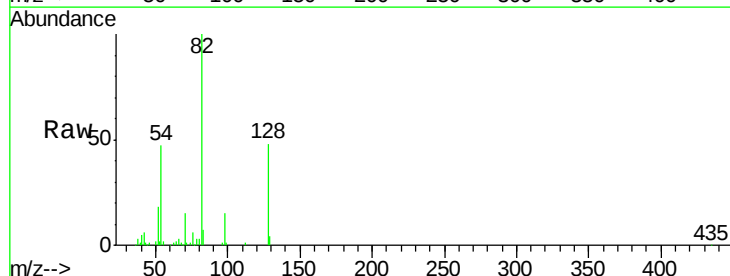


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

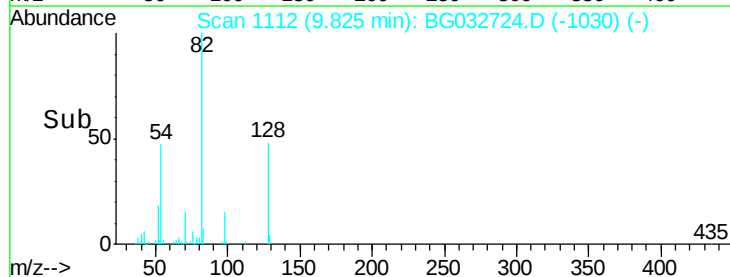
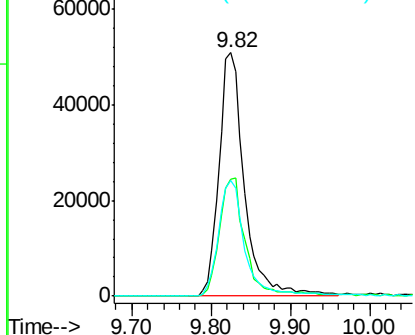


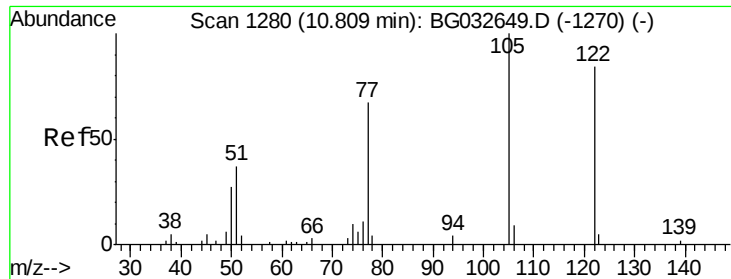
#23  
Nitrobenzene-d5  
Concen: 90.07 ng  
RT: 9.82 min Scan# 1112  
Delta R.T. -0.05 min  
Lab File: BG032724.D  
Acq: 15 Feb 2018 21:41

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 82 | Resp: | 113439     |
| Ion Ratio   | Lower | Upper      |
| 82          | 100   |            |
| 128         | 48.1  | 29.7 44.5# |
| 54          | 47.3  | 43.1 64.7  |



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

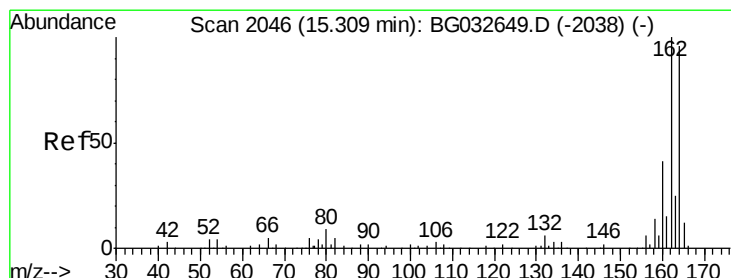
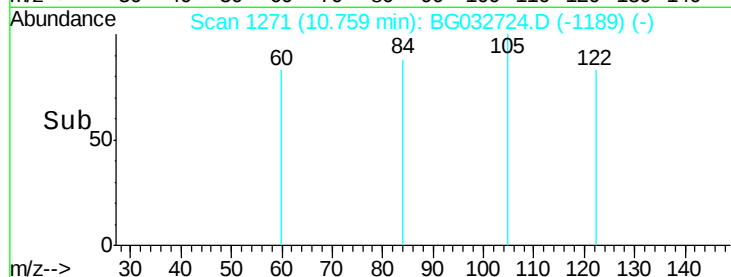
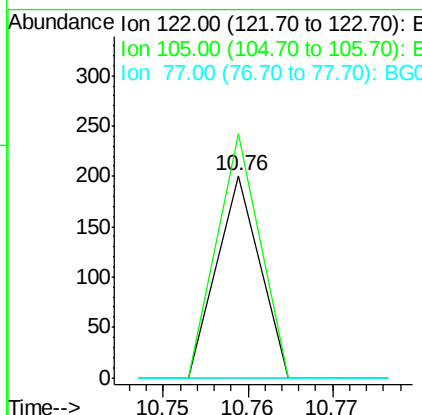
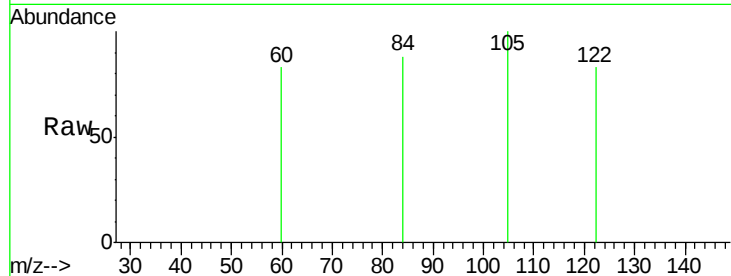




#32  
Benzoic acid  
Concen: 4.47 ng  
RT: 10.76 min Scan# 1271  
Delta R.T. -0.05 min  
Lab File: BG032724.D  
Acq: 15 Feb 2018 21:41

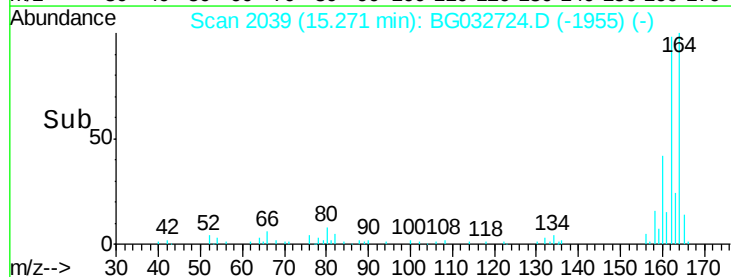
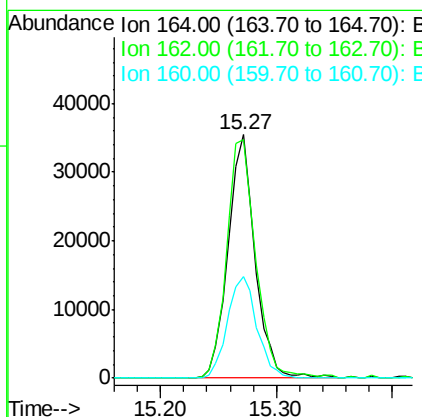
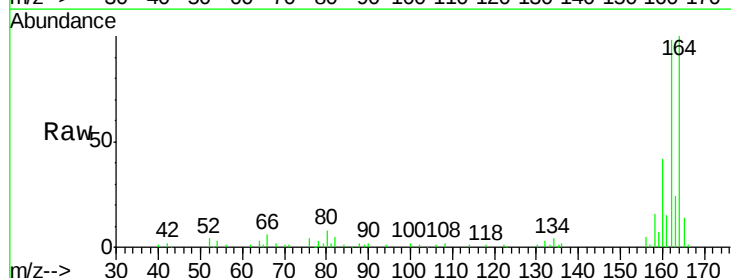
Instrument :  
BNA\_G  
ClientSampleId :

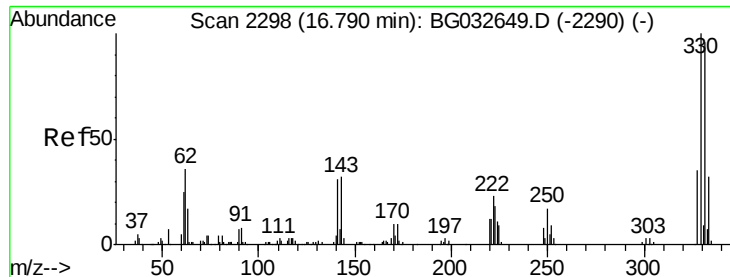
Tot Ion:122 Resp: 71  
Ion Ratio Lower Upper  
122 100  
105 120.4 123.5 163.5#  
77 0.0 85.7 125.7#



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 15.27 min Scan# 2039  
Delta R.T. -0.04 min  
Lab File: BG032724.D  
Acq: 15 Feb 2018 21:41

Tgt Ion:164 Resp: 57375  
Ion Ratio Lower Upper  
164 100  
162 98.1 78.8 118.2  
160 41.6 35.4 53.0

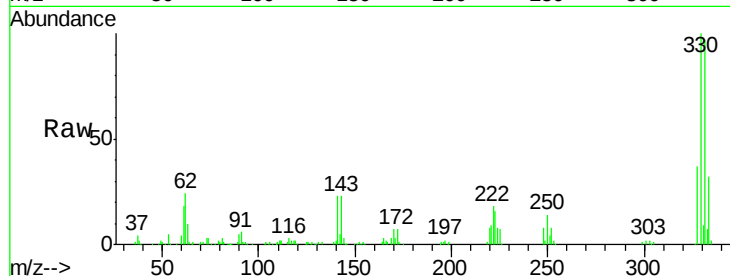




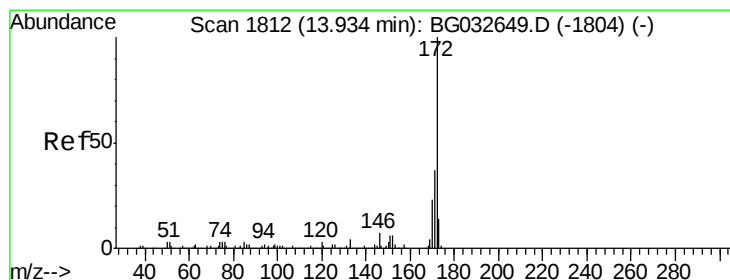
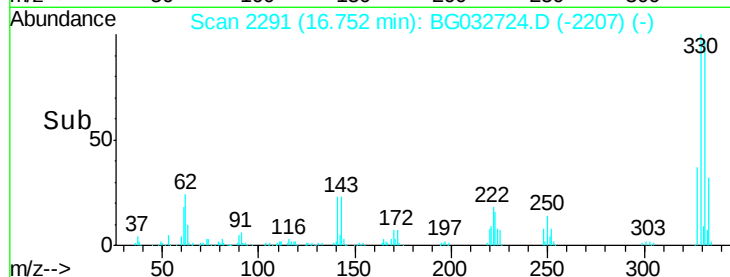
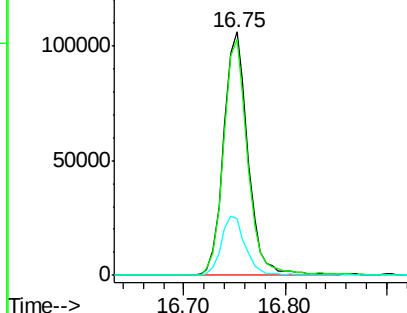
#41  
 2,4,6-Tribromophenol  
 Concen: 199.83 ng  
 RT: 16.75 min Scan# 2291  
 Delta R.T. -0.04 min  
 Lab File: BG032724.D  
 Acq: 15 Feb 2018 21:41

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.3  | 77.0  | 115.6 |
| 141     | 24.0  | 25.2  | 37.8# |

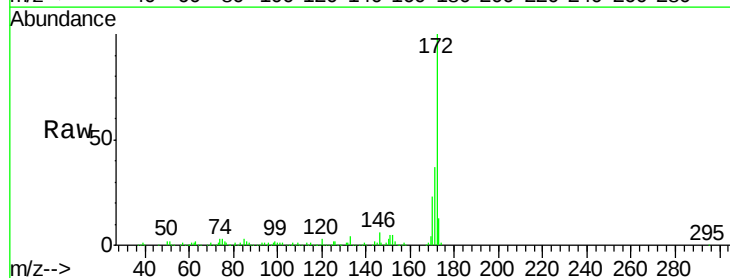


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

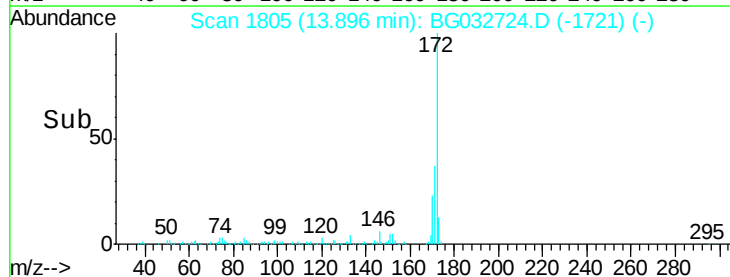
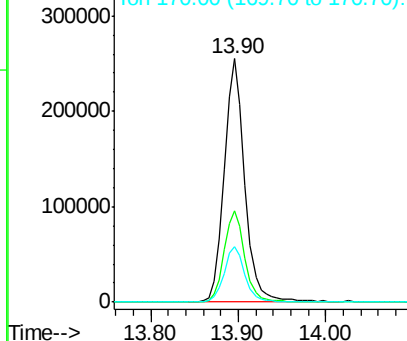


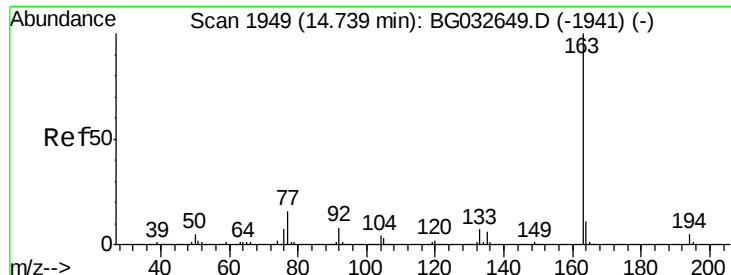
#44  
 2-Fluorobiphenyl  
 Concen: 90.09 ng  
 RT: 13.90 min Scan# 1805  
 Delta R.T. -0.04 min  
 Lab File: BG032724.D  
 Acq: 15 Feb 2018 21:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.3  | 30.0  | 45.0  |
| 170     | 22.8  | 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

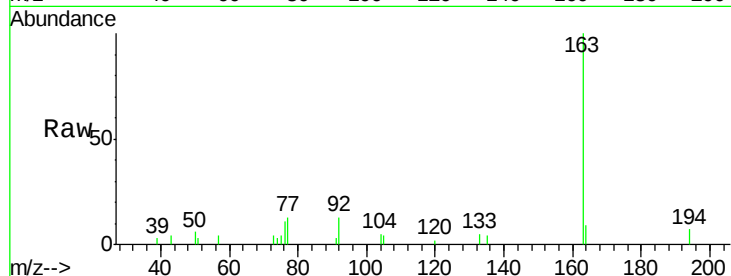




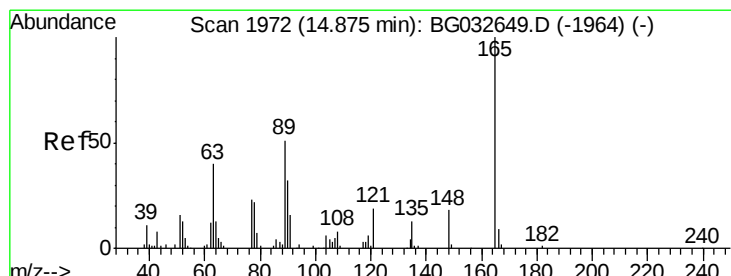
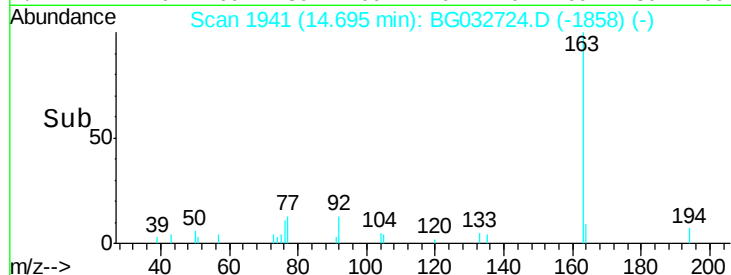
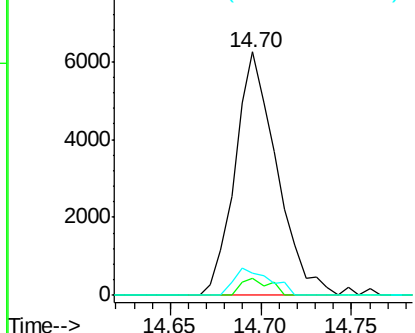
#49  
Dimethylphthalate  
Concen: 2.02 ng  
RT: 14.70 min Scan# 1941  
Delta R.T. -0.04 min  
Lab File: BG032724.D  
Acq: 15 Feb 2018 21:41

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:163 Resp: 10017  
Ion Ratio Lower Upper  
163 100  
194 6.8 3.4 5.2#  
164 9.0 8.2 12.4

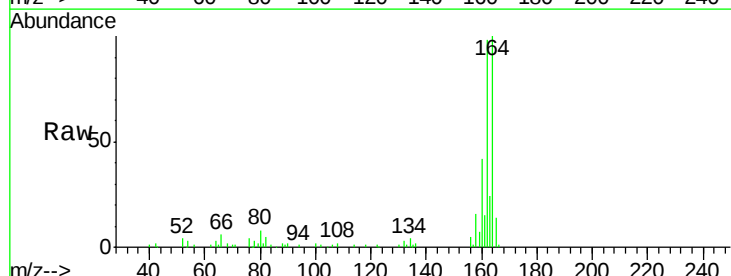


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

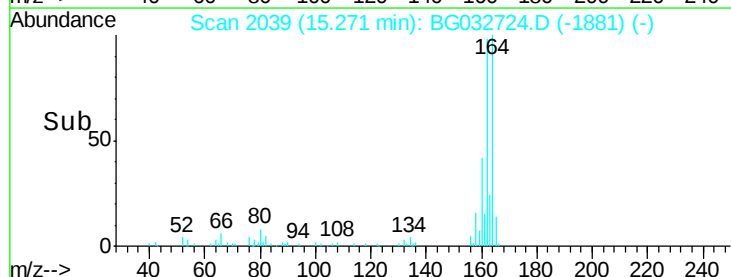
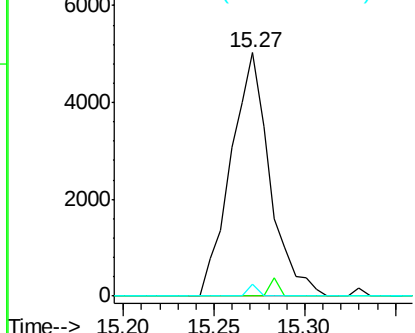


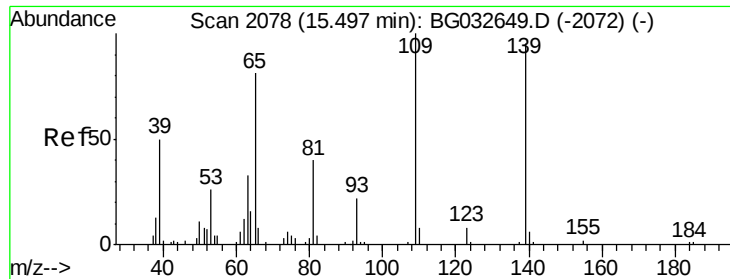
#50  
2,6-Dinitrotoluene  
Concen: 7.34 ng  
RT: 15.27 min Scan# 2039  
Delta R.T. 0.40 min  
Lab File: BG032724.D  
Acq: 15 Feb 2018 21:41

Tgt Ion:165 Resp: 7496  
Ion Ratio Lower Upper  
165 100  
63 0.0 52.7 79.1#  
89 4.9 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

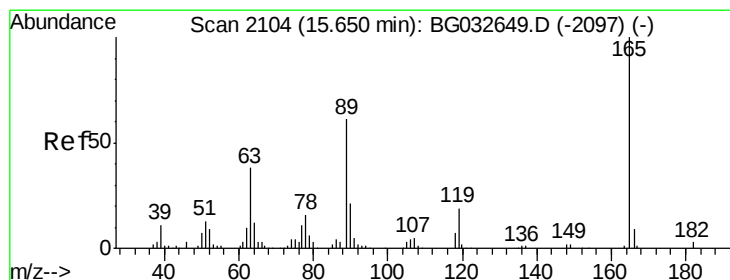
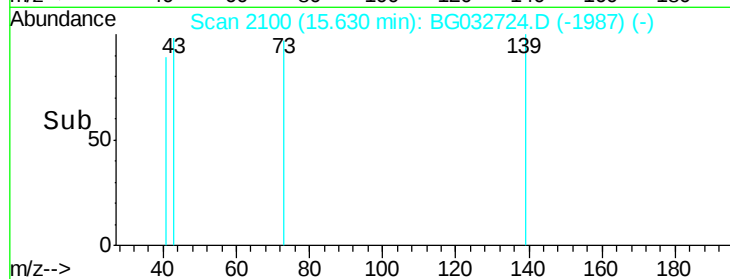
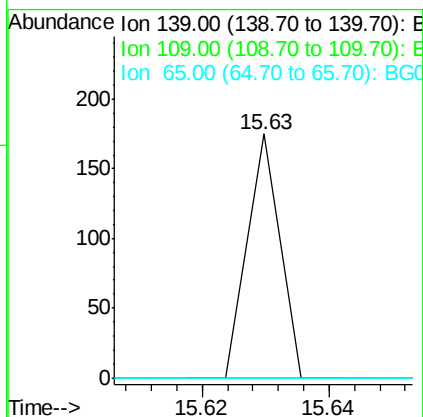
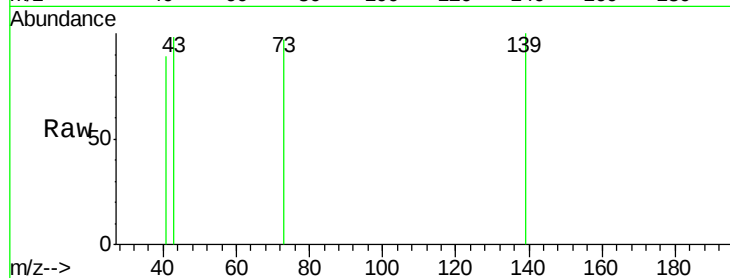




#55  
4-Nitrophenol  
Concen: 5.57 ng  
RT: 15.63 min Scan# 2100  
Delta R.T. 0.13 min  
Lab File: BG032724.D  
Acq: 15 Feb 2018 21:41

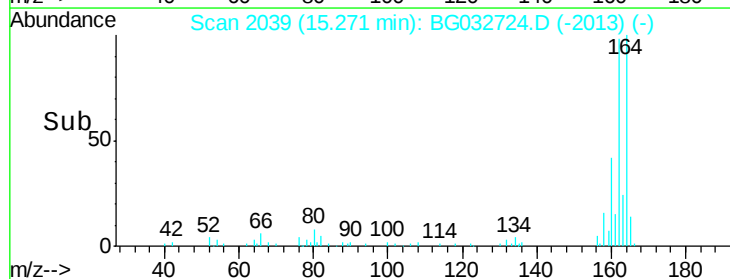
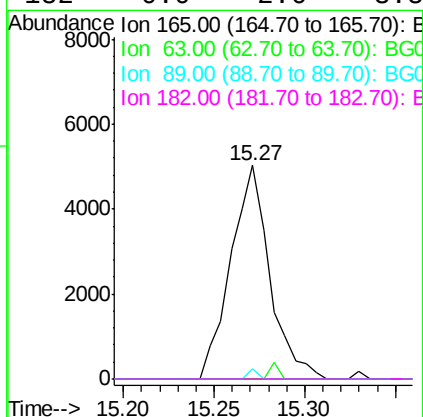
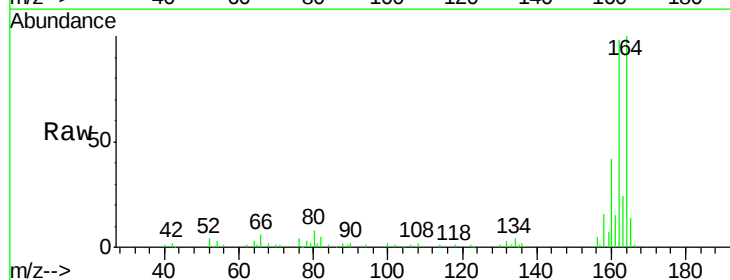
Instrument :  
BNA\_G  
ClientSampleId :

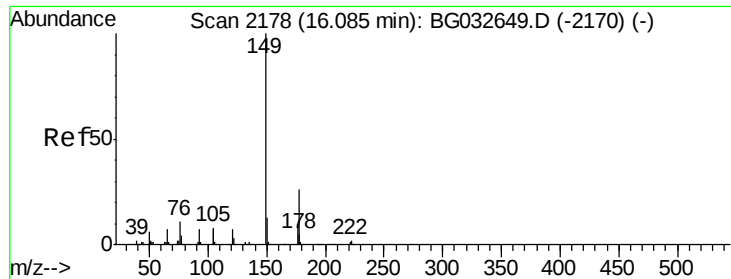
Tot Ion:139 Resp: 62  
Ion Ratio Lower Upper  
139 100  
109 0.0 62.2 102.2#  
65 0.0 97.2 137.2#



#56  
2,4-Dinitrotoluene  
Concen: 5.33 ng  
RT: 15.27 min Scan# 2039  
Delta R.T. -0.38 min  
Lab File: BG032724.D  
Acq: 15 Feb 2018 21:41

Tgt Ion:165 Resp: 7496  
Ion Ratio Lower Upper  
165 100  
63 0.0 42.0 63.0#  
89 4.9 66.9 100.3#  
182 0.0 2.6 3.8#

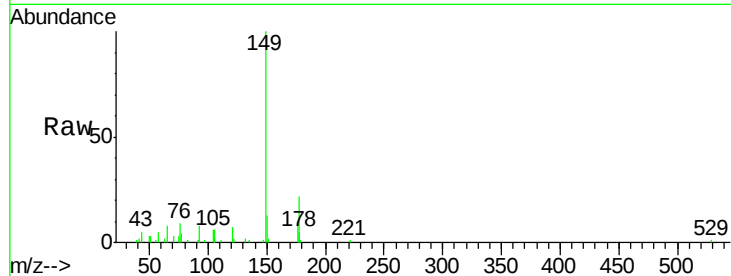




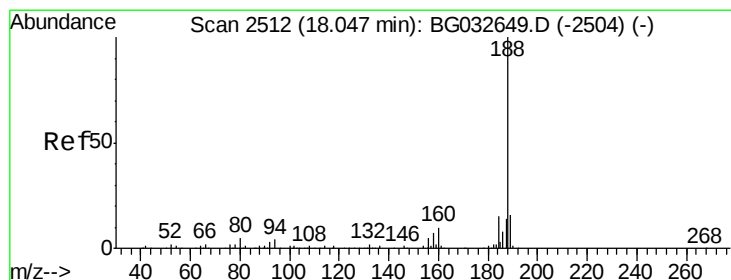
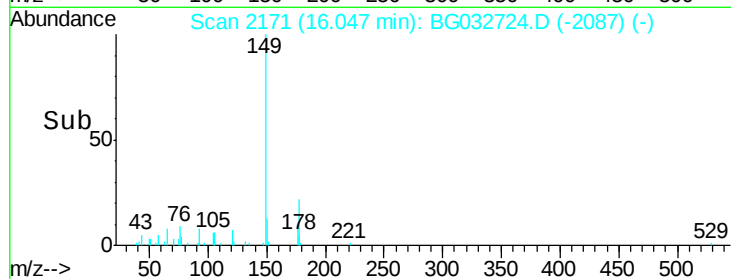
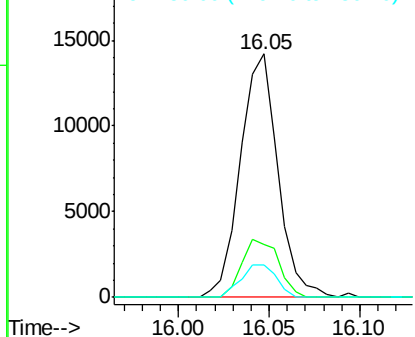
#59  
Diethylphthalate  
Concen: 4.23 ng  
RT: 16.05 min Scan# 2171  
Delta R.T. -0.04 min  
Lab File: BG032724.D  
Acq: 15 Feb 2018 21:41

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 177     | 21.6  | 18.5  | 27.7  |
| 150     | 13.1  | 10.2  | 15.2  |

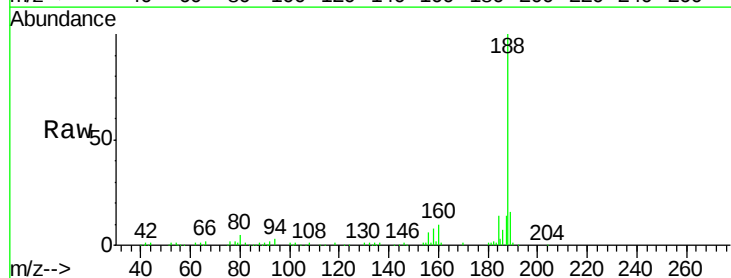


Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 177.00 (176.70 to 177.70): E  
Ion 150.00 (149.70 to 150.70): E

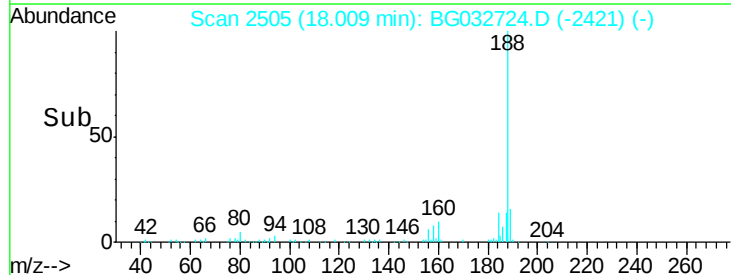
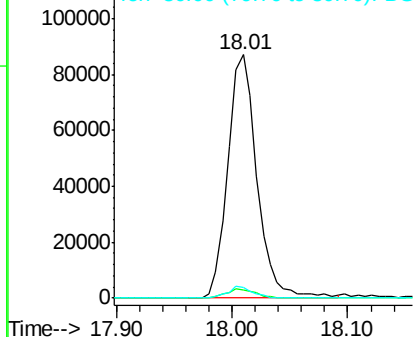


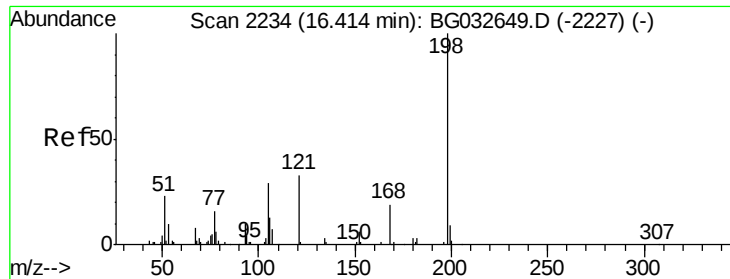
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 18.01 min Scan# 2505  
Delta R.T. -0.04 min  
Lab File: BG032724.D  
Acq: 15 Feb 2018 21:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 3.4   | 6.9   | 10.3# |
| 80      | 4.6   | 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

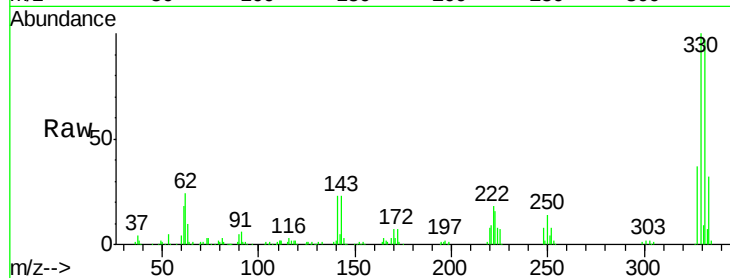




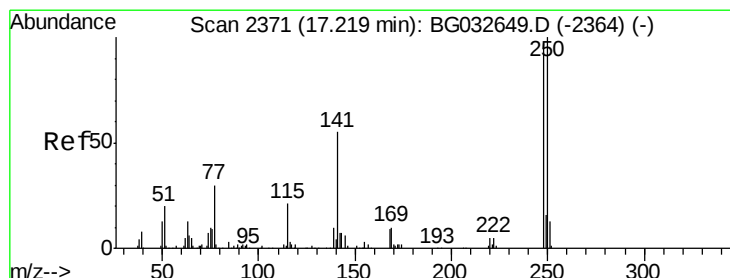
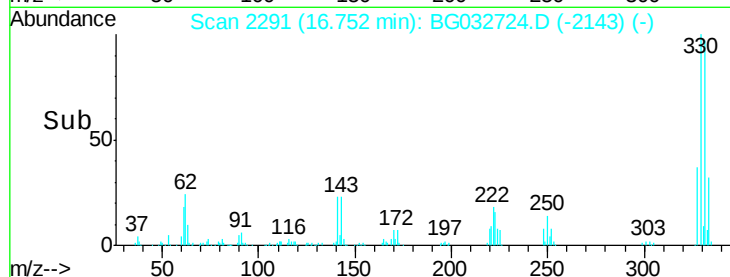
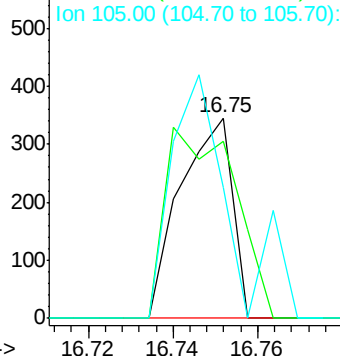
#64  
4,6-Dinitro-2-methylphenol  
Concen: 5.26 ng  
RT: 16.75 min Scan# 2291  
Delta R.T. 0.34 min  
Lab File: BG032724.D  
Acq: 15 Feb 2018 21:41

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 198     | 100   |       |       |
| 51      | 88.4  | 30.6  | 70.6# |
| 105     | 65.5  | 23.8  | 63.8# |

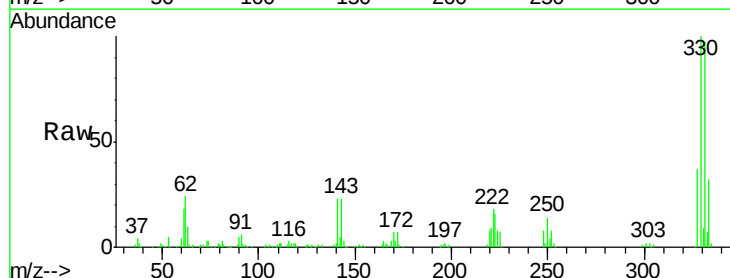


Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BG0  
Ion 105.00 (104.70 to 105.70): E

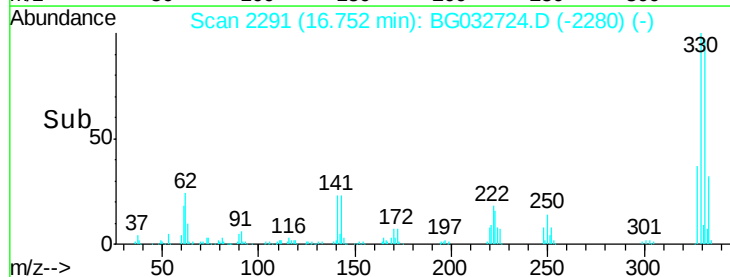
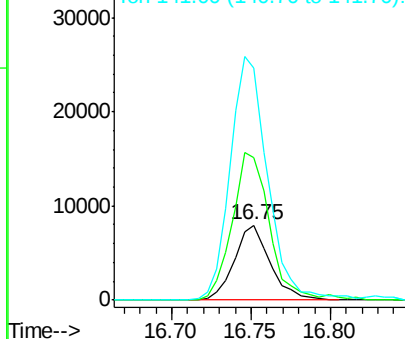


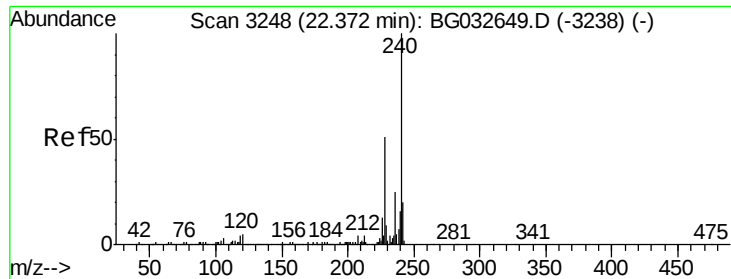
#66  
4-Bromophenyl-phenylether  
Concen: 5.71 ng  
RT: 16.75 min Scan# 2291  
Delta R.T. -0.47 min  
Lab File: BG032724.D  
Acq: 15 Feb 2018 21:41

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 189.6 | 77.1  | 115.7# |
| 141     | 309.3 | 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: 20.00 ng

RT: 22.33 min Scan# 3240

Delta R.T. -0.04 min

Lab File: BG032724.D

Acq: 15 Feb 2018 21:41

Instrument :

BNA\_G

ClientSampleId :

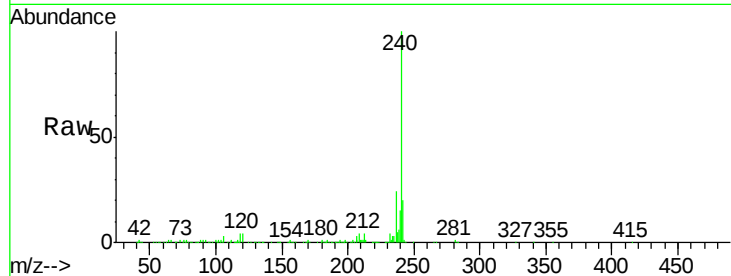
Tot Ion:240 Resp: 292228

Ion Ratio Lower Upper

240 100

120 3.9 6.8 10.2#

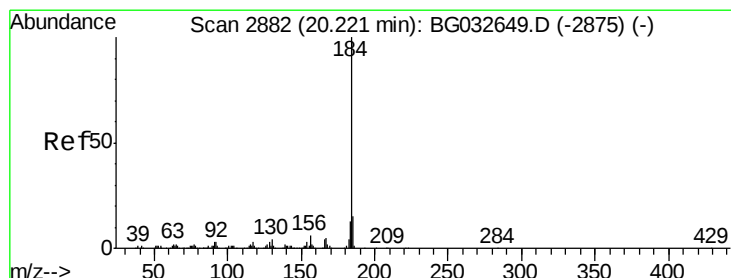
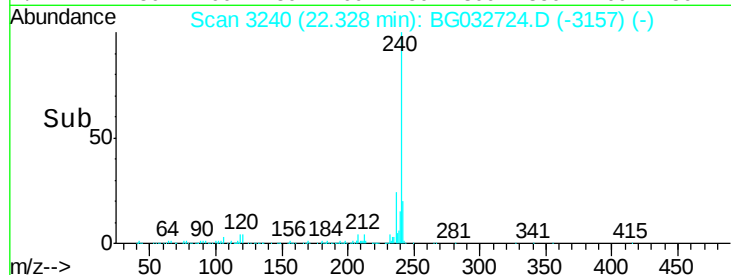
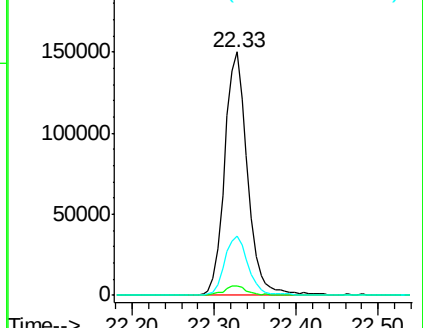
236 24.3 20.9 31.3



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



#76

Benzidine

Concen: 2.70 ng

RT: 20.55 min Scan# 2938

Delta R.T. 0.33 min

Lab File: BG032724.D

Acq: 15 Feb 2018 21:41

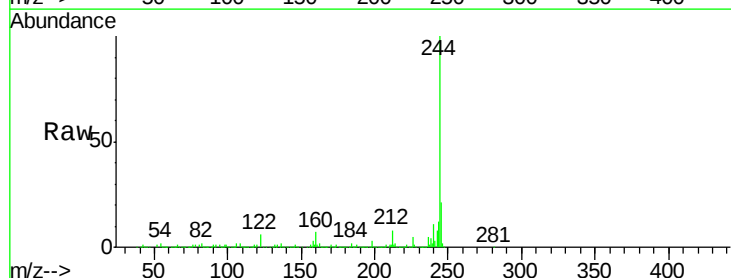
Tgt Ion:184 Resp: 18548

Ion Ratio Lower Upper

184 100

185 20.2 11.1 16.7#

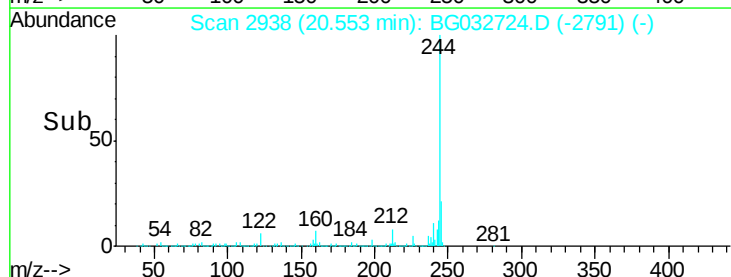
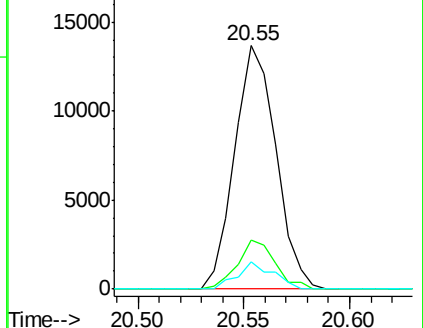
183 11.0 10.6 16.0

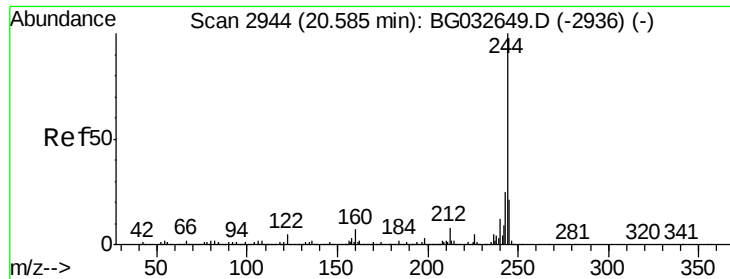


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Terphenyl-d14

Concen: 98.97 ng

RT: 20.56 min Scan# 2939

Delta R.T. -0.03 min

Lab File: BG032724.D

Acq: 15 Feb 2018 21:41

Instrument :

BNA\_G

ClientSampled :

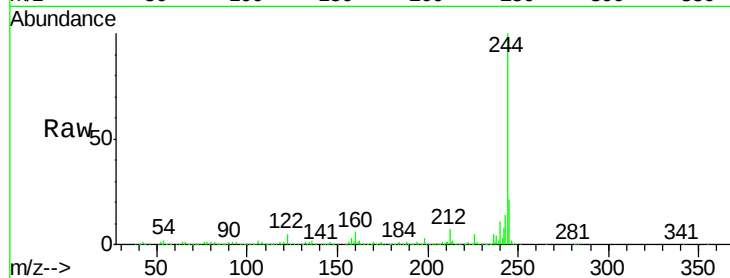
Tot Ion:244 Resp: 1268918

Ion Ratio Lower Upper

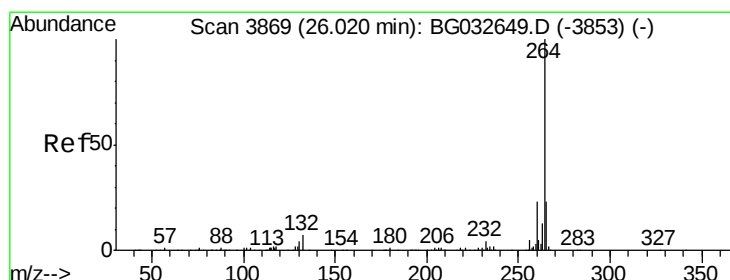
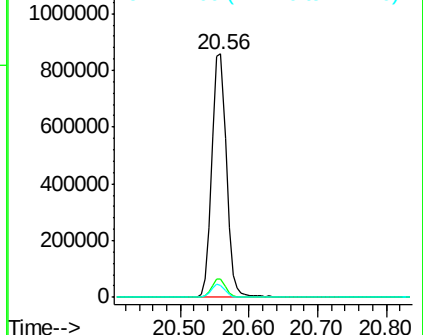
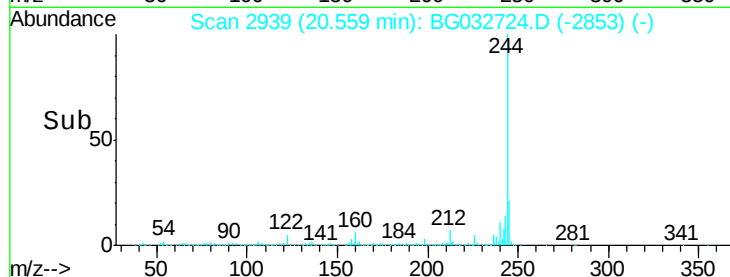
244 100

212 7.4 5.8 8.8

122 5.0 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

Perylene-d12

Concen: 20.00 ng

RT: 25.94 min Scan# 3855

Delta R.T. -0.08 min

Lab File: BG032724.D

Acq: 15 Feb 2018 21:41

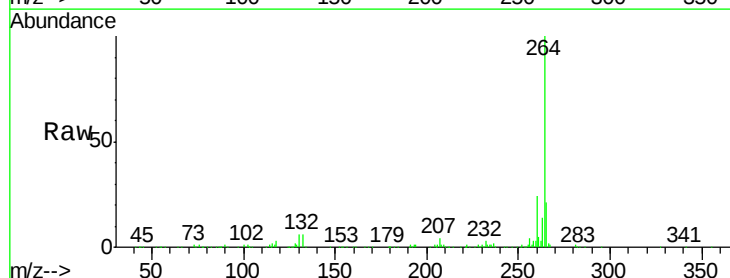
Tgt Ion:264 Resp: 314291

Ion Ratio Lower Upper

264 100

260 24.5 17.4 26.0

265 20.9 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

