

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG120718\  
 Data File : BG038428.D  
 Acq On : 8 Dec 2018 8:36  
 Operator : JU/SJ  
 Sample : J6019-03  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MW-3

Quant Time: Dec 10 02:52:12 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG120418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 04 17:15:40 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.07  | 152  | 26779    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.89 | 136  | 111988   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.70 | 164  | 78446    | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10      | 17.45 | 188  | 194743   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12          | 21.73 | 240  | 190891   | 20.00 | ng    | -0.02    |
| 87) Perylene-d12          | 25.03 | 264  | 200577   | 20.00 | ng    | -0.02    |

|                             |       |     |        |        |    |       |
|-----------------------------|-------|-----|--------|--------|----|-------|
| System Monitoring Compounds |       |     |        |        |    |       |
| 5) 2-Fluorophenol           | 5.61  | 112 | 83308  | 55.05  | ng | 0.00  |
| 7) Phenol-d6                | 7.21  | 99  | 72406  | 33.11  | ng | -0.01 |
| 23) Nitrobenzene-d5         | 9.25  | 82  | 192093 | 85.16  | ng | 0.00  |
| 42) 2,4,6-Tribromophenol    | 16.19 | 330 | 147900 | 153.58 | ng | -0.01 |
| 45) 2-Fluorobiphenyl        | 13.33 | 172 | 486830 | 88.43  | ng | 0.00  |
| 79) Terphenyl-d14           | 20.05 | 244 | 797731 | 89.52  | ng | 0.00  |

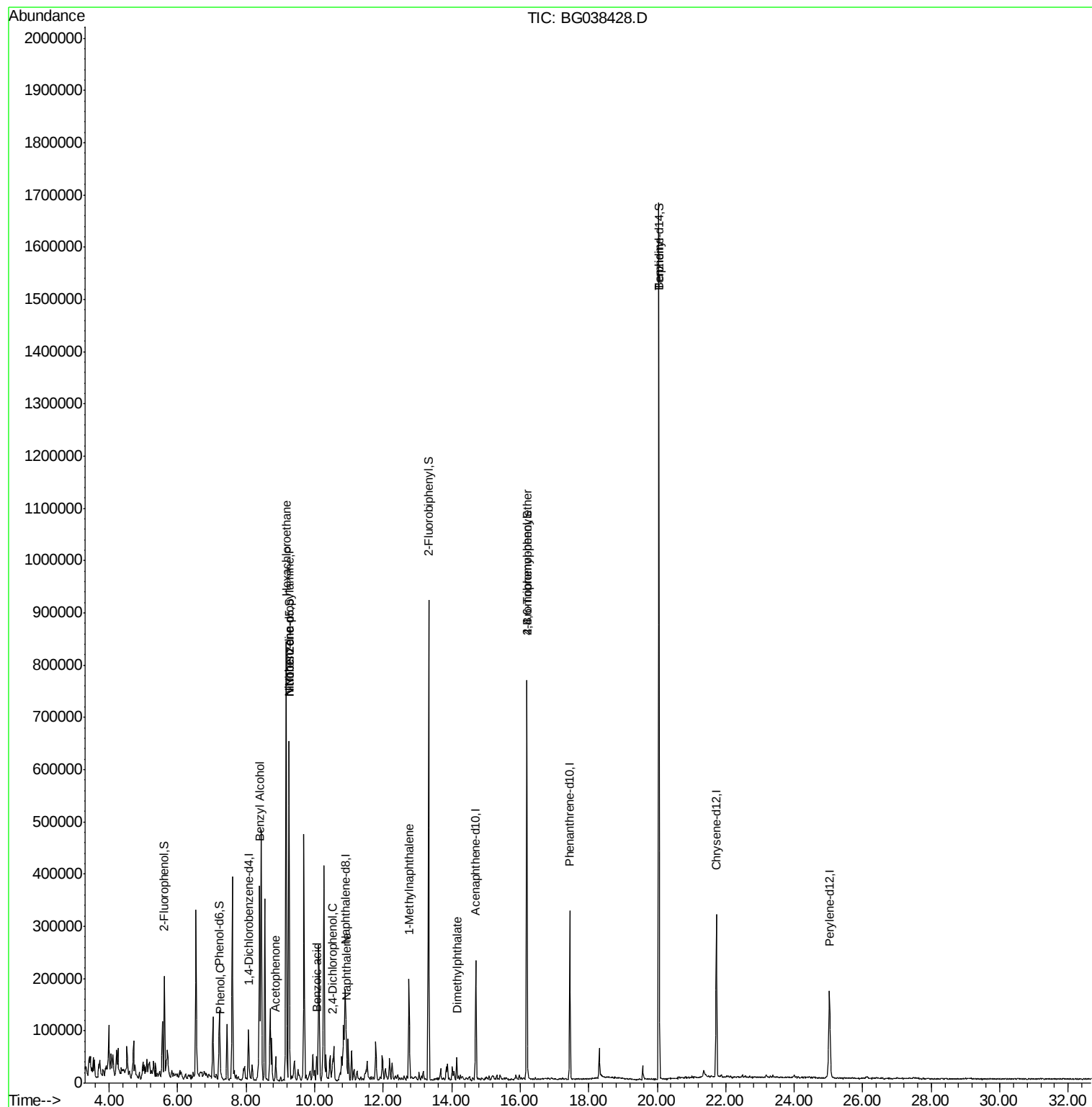
|                                |       |     |       |           |    |      |
|--------------------------------|-------|-----|-------|-----------|----|------|
| Target Compounds               |       |     |       | Qvalue    |    |      |
| 10) Phenol                     | 7.24  | 94  | 8526  | 3.690     | ng | 83   |
| 15) Benzyl Alcohol             | 8.39  | 79  | 4904  | 2.727     | ng | # 46 |
| 17) 2-Methylphenol             | 8.54  | 107 | 602   | Below Cal | #  | 1    |
| 18) Hexachloroethane           | 9.17  | 117 | 85316 | 111.227   | ng | # 1  |
| 19) n-Nitroso-di-n-propylamine | 9.25  | 70  | 25990 | 14.940    | ng | # 82 |
| 22) Acetophenone               | 8.86  | 105 | 34071 | 10.699    | ng | # 55 |
| 24) Nitrobenzene               | 9.25  | 77  | 14368 | 6.270     | ng | # 6  |
| 29) 2,4-Dichlorophenol         | 10.53 | 162 | 5185  | 2.978     | ng | # 26 |
| 31) Naphthalene                | 10.93 | 128 | 16367 | 3.060     | ng | # 78 |
| 32) Benzoic acid               | 10.06 | 122 | 59    | 4.806     | ng | # 1  |
| 38) 1-Methylnaphthalene        | 12.76 | 142 | 59160 | 16.214    | ng | # 98 |
| 50) Dimethylphthalate          | 14.15 | 163 | 28825 | 4.581     | ng | # 99 |
| 67) 4-Bromophenyl-phenylether  | 16.19 | 248 | 10146 | 4.824     | ng | # 1  |
| 77) Benzidine                  | 20.05 | 184 | 14443 | 2.242     | ng | # 92 |

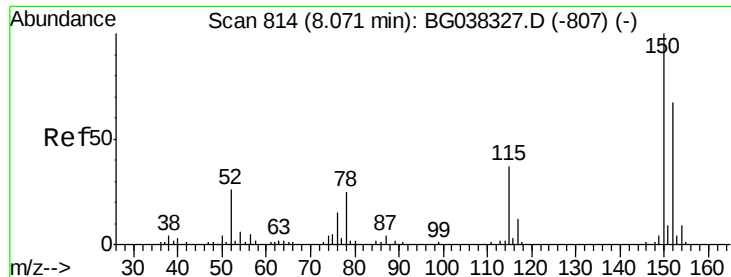
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG120718\  
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Sample : J6019-03  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
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Quant Time: Dec 10 02:52:12 2018  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Dec 04 17:15:40 2018  
Response via : Initial Calibration



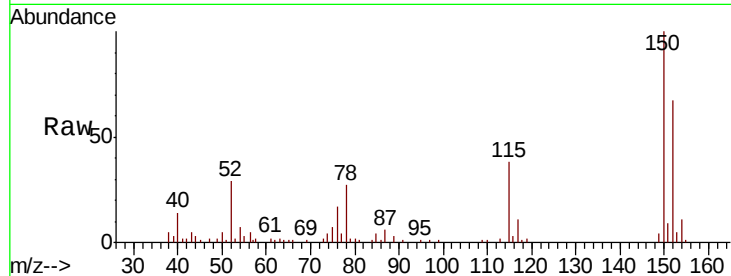


#1

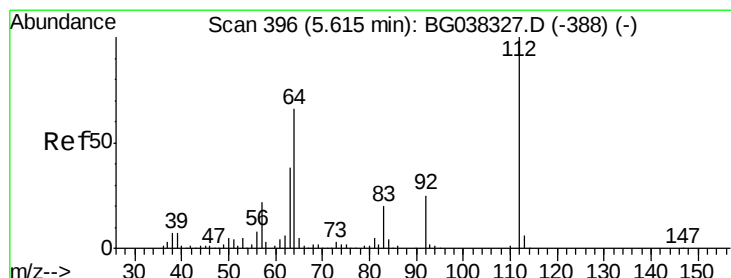
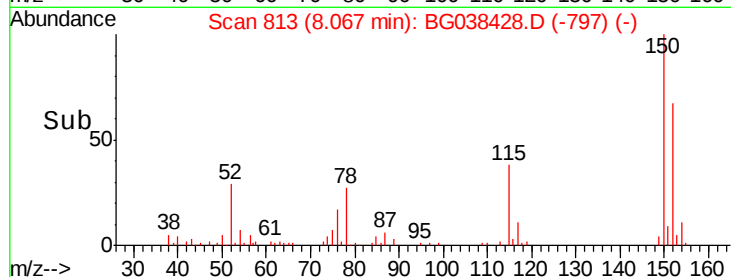
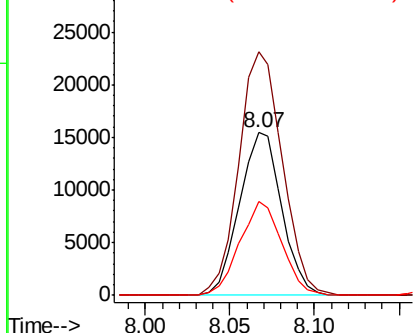
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.07 min Scan# 813  
Delta R.T. -0.00 min  
Lab File: BG038428.D  
Acq: 8 Dec 2018 8:36

Instrument :  
BNA\_G  
ClientSampleId :  
MW-3

Tgt Ion:152 Resp: 26779  
Ion Ratio Lower Upper  
152 100  
150 149.9 126.0 189.0  
115 57.7 45.5 68.3



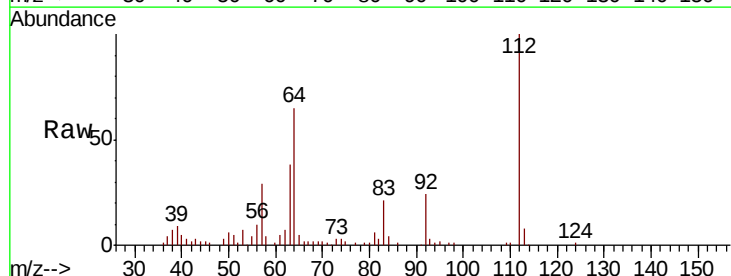
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



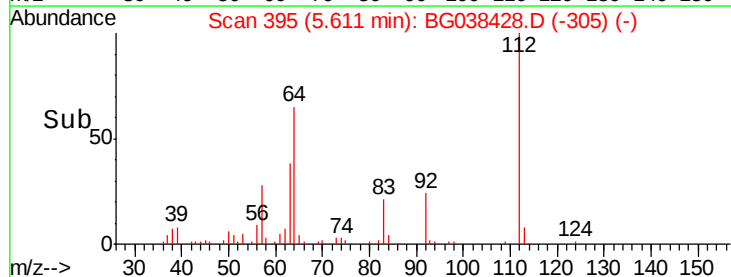
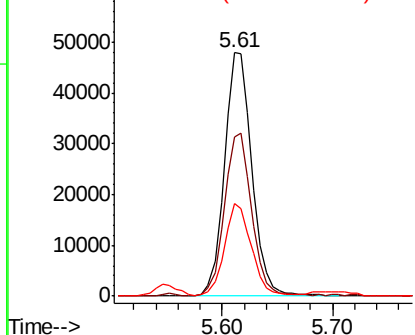
#5

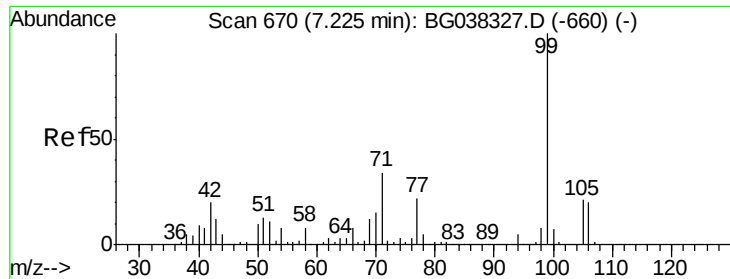
2-Fluorophenol  
Concen: 55.053 ng  
RT: 5.61 min Scan# 395  
Delta R.T. -0.00 min  
Lab File: BG038428.D  
Acq: 8 Dec 2018 8:36

Tgt Ion:112 Resp: 83308  
Ion Ratio Lower Upper  
112 100  
64 65.3 53.1 79.7  
63 37.8 27.3 40.9



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: 33.105 ng

RT: 7.21 min Scan# 668

Delta R.T. -0.01 min

Lab File: BG038428.D

Acq: 8 Dec 2018 8:36

Instrument :

BNA\_G

ClientSampled :

MW-3

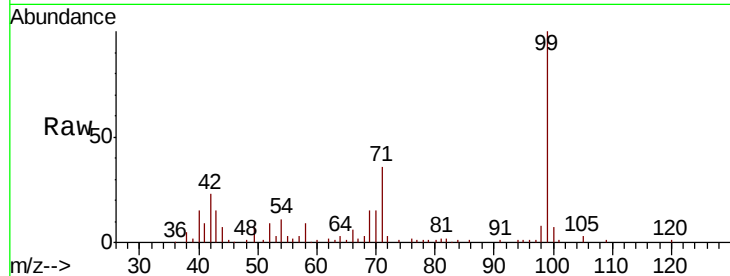
Tgt Ion: 99 Resp: 72406

Ion Ratio Lower Upper

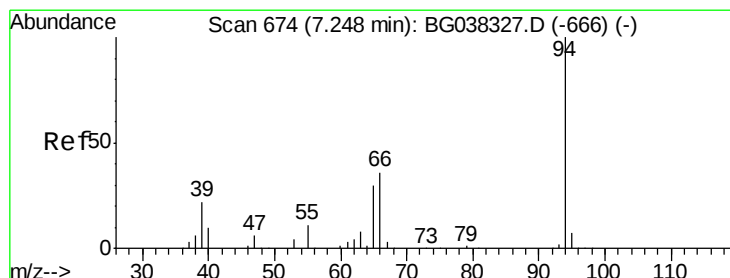
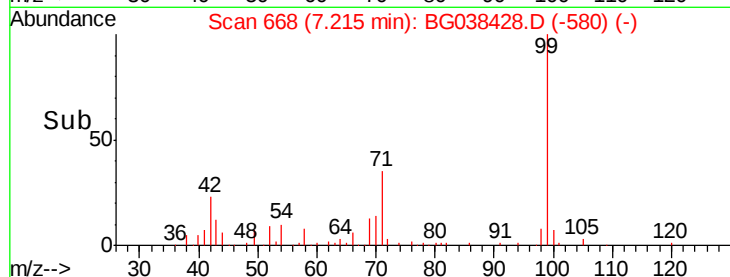
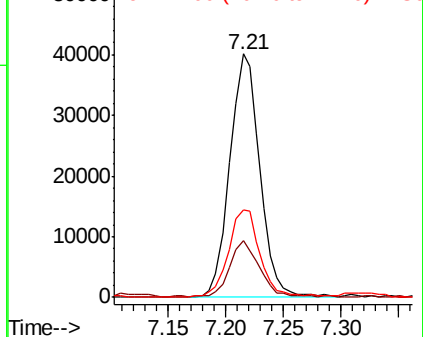
99 100

42 23.1 15.0 22.4#

71 35.7 25.5 38.3



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



#10

Phenol

Concen: 3.690 ng

RT: 7.24 min Scan# 673

Delta R.T. -0.00 min

Lab File: BG038428.D

Acq: 8 Dec 2018 8:36

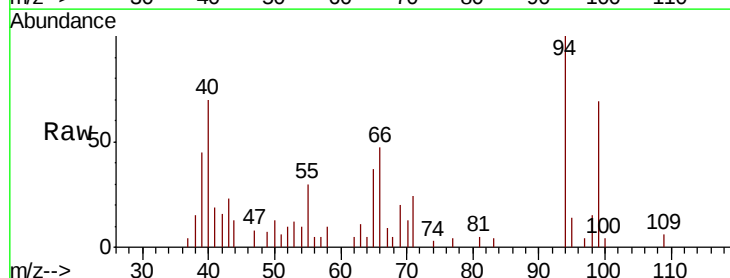
Tgt Ion: 94 Resp: 8526

Ion Ratio Lower Upper

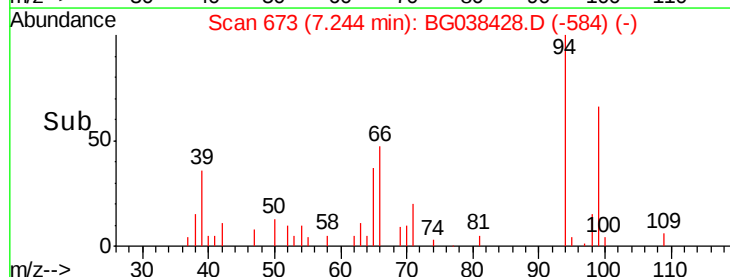
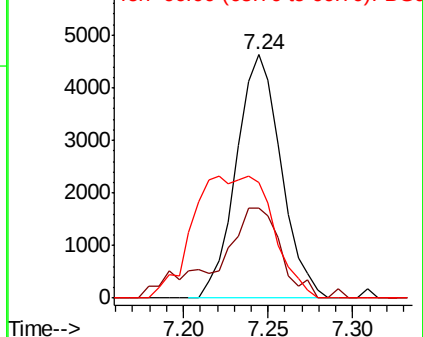
94 100

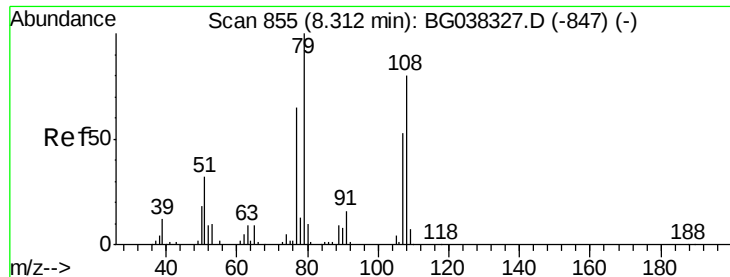
65 37.1 9.7 49.7

66 47.3 15.9 55.9



Abundance Ion 94.00 (93.70 to 94.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC





#15

Benzyl Alcohol

Concen: 2.727 ng

RT: 8.39 min Scan# 868

Delta R.T. 0.08 min

Lab File: BG038428.D

Acq: 8 Dec 2018 8:36

Instrument :

BNA\_G

ClientSampleId :

MW-3

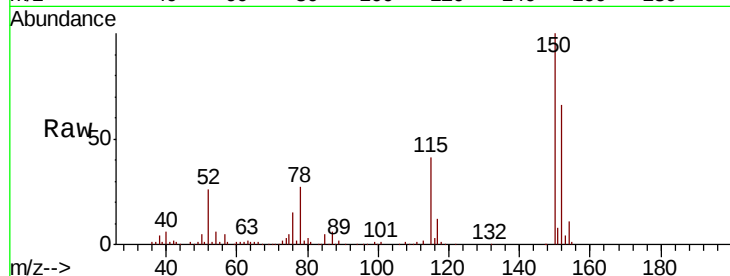
Tgt Ion: 79 Resp: 4904

Ion Ratio Lower Upper

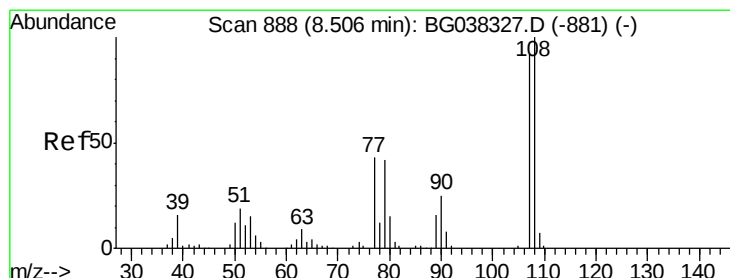
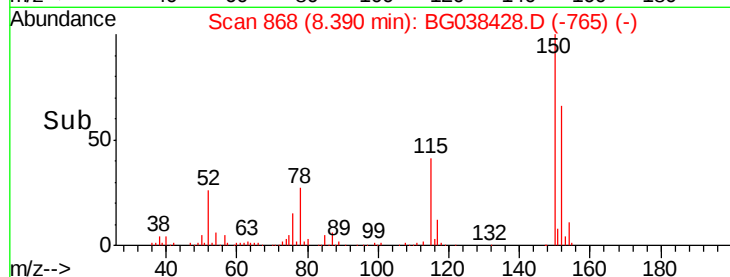
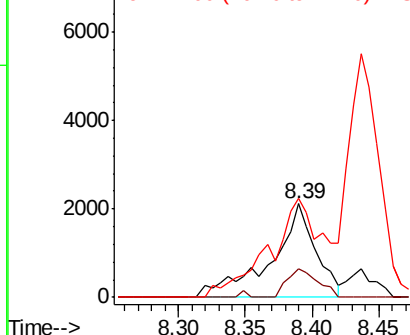
79 100

108 30.2 65.8 98.8#

77 105.0 52.9 79.3#



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: Below Cal

RT: 8.54 min Scan# 893

Delta R.T. 0.03 min

Lab File: BG038428.D

Acq: 8 Dec 2018 8:36

Tgt Ion: 107 Resp: 602

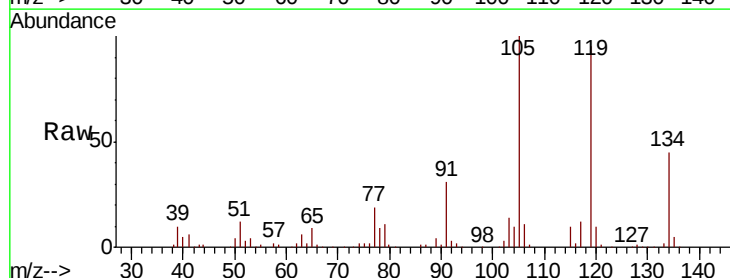
Ion Ratio Lower Upper

107 100

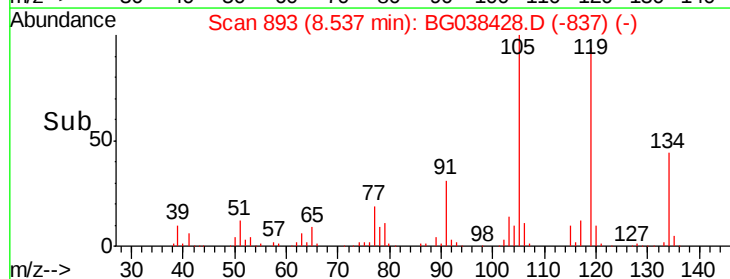
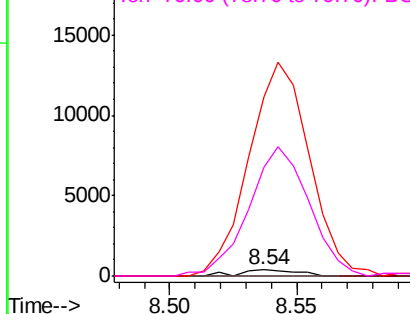
108 0.0 87.9 131.9#

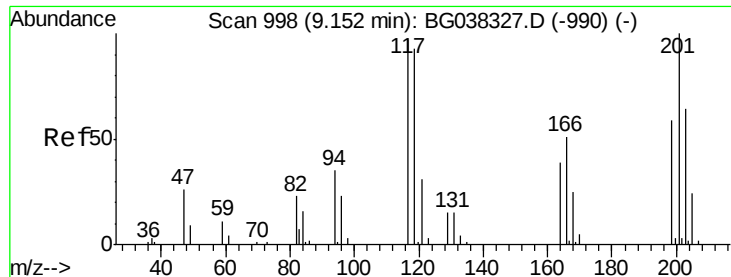
77 2869.7 35.1 52.7#

79 1740.5 34.5 51.7#



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

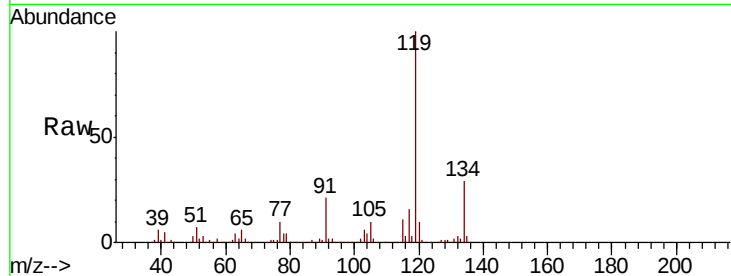




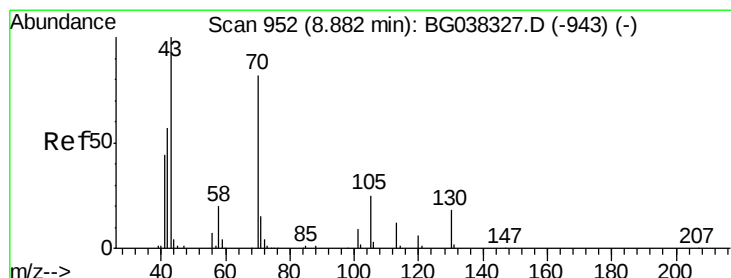
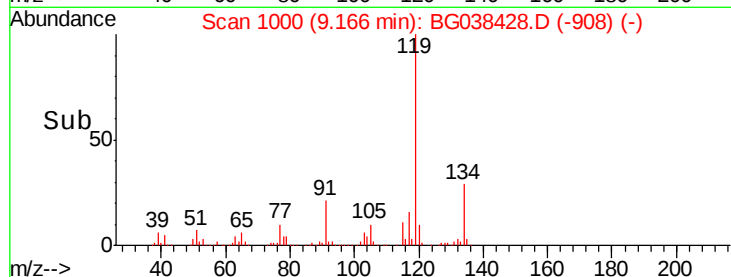
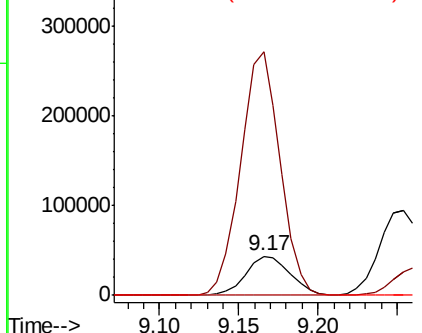
#18  
Hexachloroethane  
Concen: 111.227 ng  
RT: 9.17 min Scan# 1000  
Delta R.T. 0.01 min  
Lab File: BG038428.D  
Acq: 8 Dec 2018 8:36

Instrument :  
BNA\_G  
ClientSampleId :  
MW-3

Tgt Ion: 117 Resp: 85316  
Ion Ratio Lower Upper  
117 100  
119 620.9 74.6 111.8#  
201 0.0 80.8 121.2#

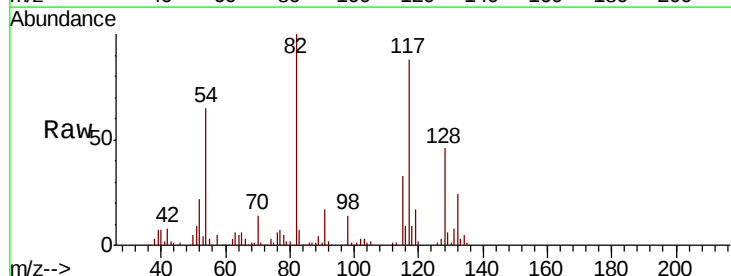


Abundance Ion 117.00 (116.70 to 117.70): E  
Ion 119.00 (118.70 to 119.70): E  
Ion 201.00 (200.70 to 201.70): E

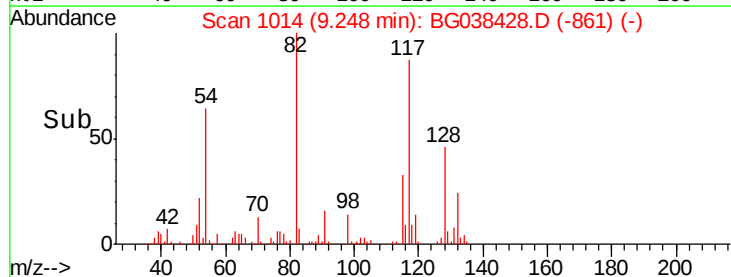
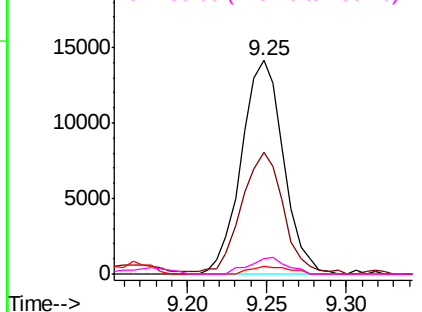


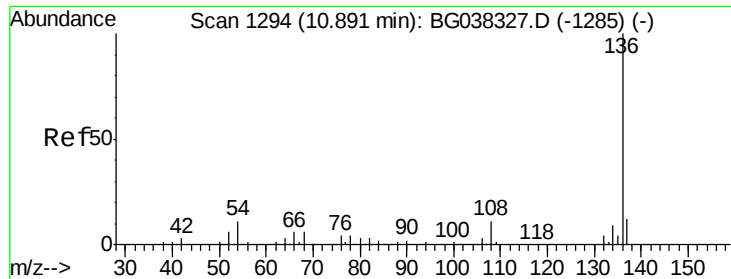
#19  
n-Nitroso-di-n-propylamine  
Concen: 14.940 ng  
RT: 9.25 min Scan# 1014  
Delta R.T. 0.37 min  
Lab File: BG038428.D  
Acq: 8 Dec 2018 8:36

Tgt Ion: 70 Resp: 25990  
Ion Ratio Lower Upper  
70 100  
42 56.8 53.9 80.9  
101 3.8 8.2 12.2#  
130 7.3 18.2 27.4#



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): E  
Ion 130.00 (129.70 to 130.70): E

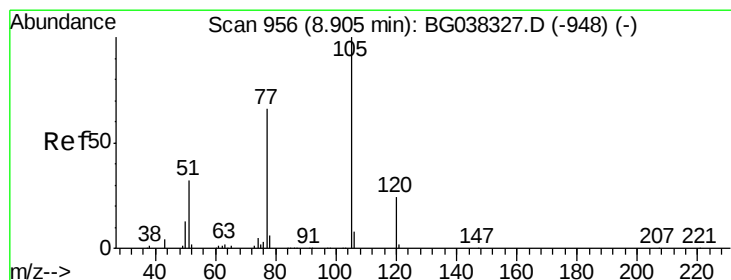
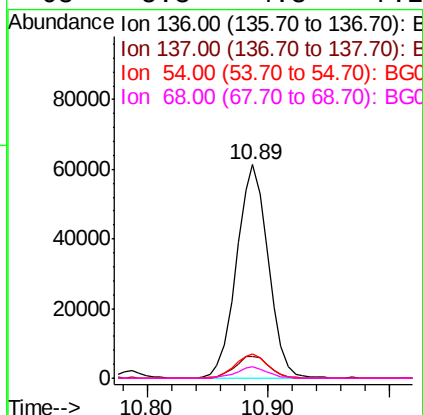
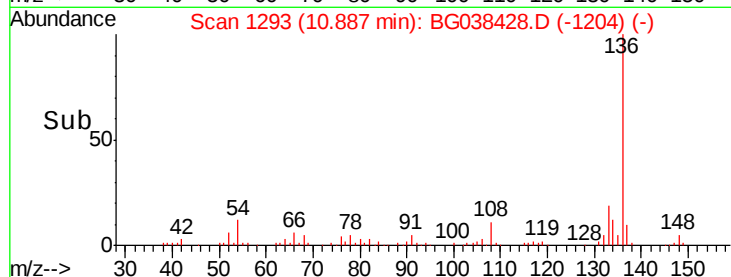
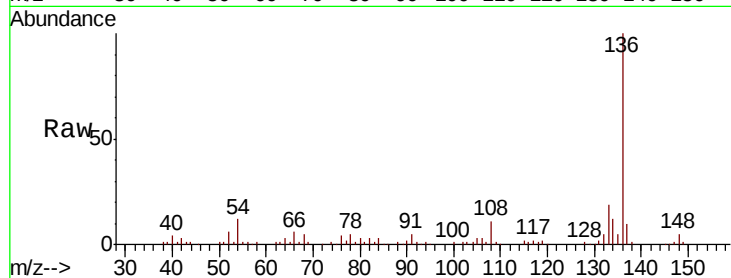




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.89 min Scan# 1293  
Delta R.T. -0.00 min  
Lab File: BG038428.D  
Acq: 8 Dec 2018 8:36

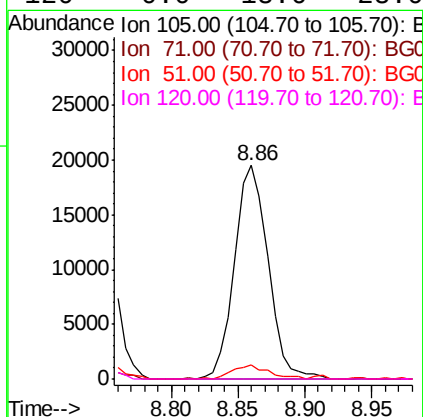
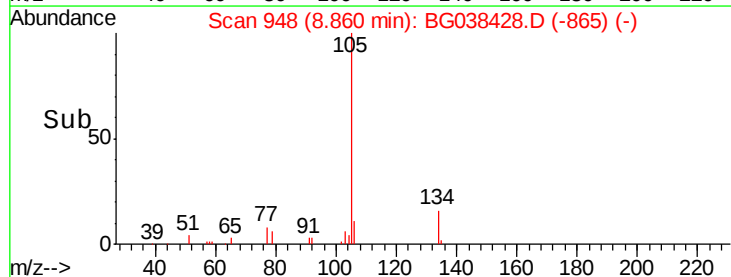
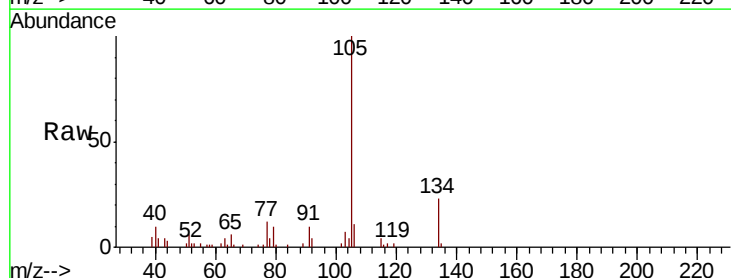
Instrument :  
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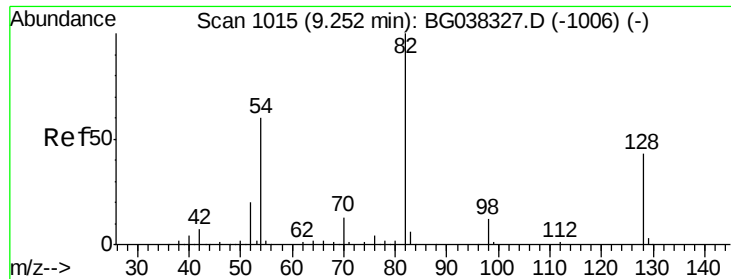
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 111988 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.2  | 9.6   | 14.4   |
| 54       | 11.6  | 7.9   | 11.9   |
| 68       | 5.3   | 4.8   | 7.2    |



#22  
Acetophenone  
Concen: 10.699 ng  
RT: 8.86 min Scan# 948  
Delta R.T. -0.04 min  
Lab File: BG038428.D  
Acq: 8 Dec 2018 8:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 34071 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 71       | 0.0   | 1.2   | 1.8#  |
| 51       | 6.3   | 25.0  | 37.6# |
| 120      | 0.0   | 18.6  | 28.0# |

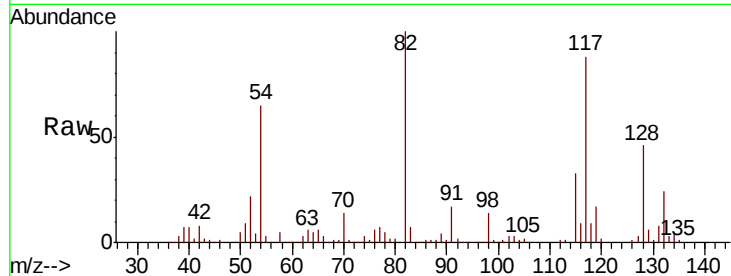




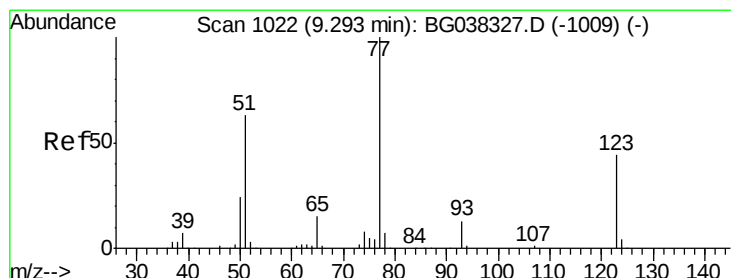
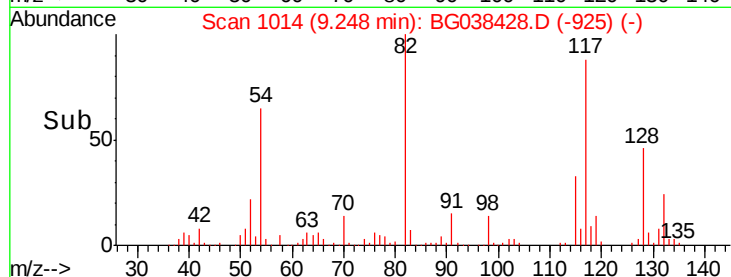
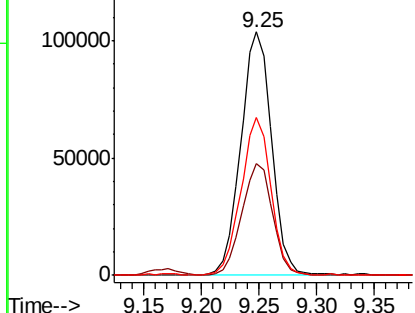
#23  
Nitrobenzene-d5  
Concen: 85.161 ng  
RT: 9.25 min Scan# 1014  
Delta R.T. -0.00 min  
Lab File: BG038428.D  
Acq: 8 Dec 2018 8:36

Instrument :  
BNA\_G  
ClientSampleId :  
MW-3

Tgt Ion: 82 Resp: 192093  
Ion Ratio Lower Upper  
82 100  
128 45.9 34.6 51.8  
54 64.9 45.3 67.9

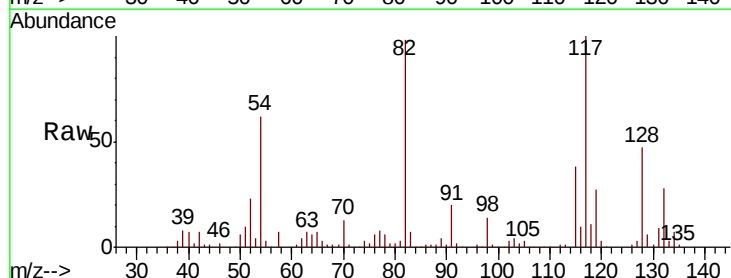


Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC

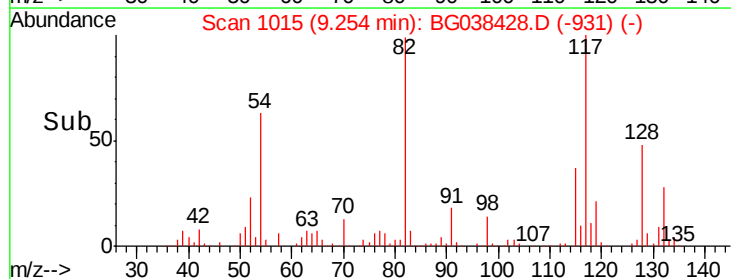
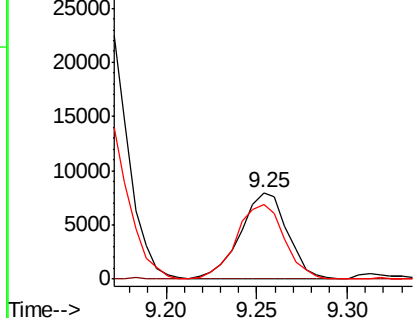


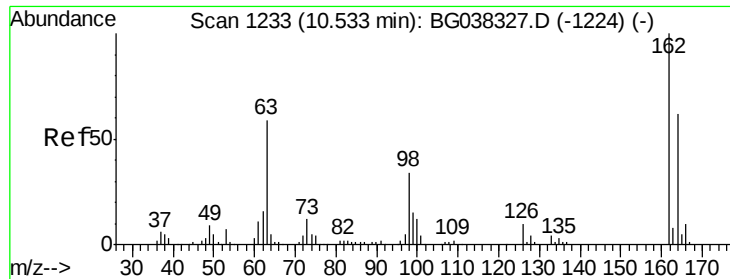
#24  
Nitrobenzene  
Concen: 6.270 ng  
RT: 9.25 min Scan# 1015  
Delta R.T. -0.04 min  
Lab File: BG038428.D  
Acq: 8 Dec 2018 8:36

Tgt Ion: 77 Resp: 14368  
Ion Ratio Lower Upper  
77 100  
123 0.0 33.6 50.4#  
65 86.6 11.3 16.9#



Abundance Ion 77.00 (76.70 to 77.70): BGC  
Ion 123.00 (122.70 to 123.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC

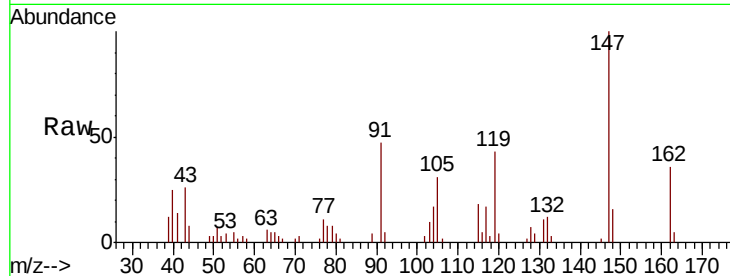




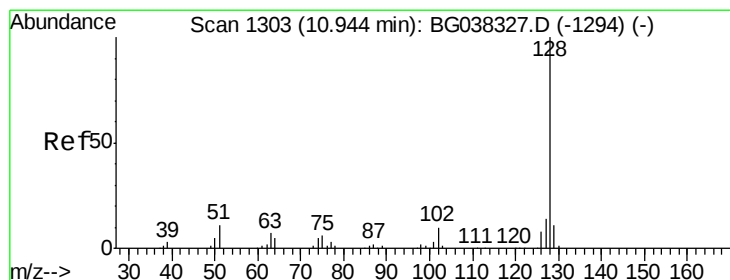
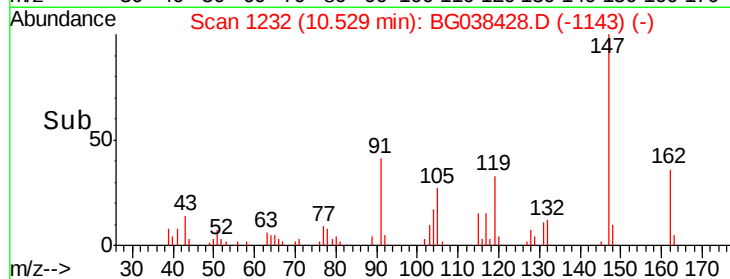
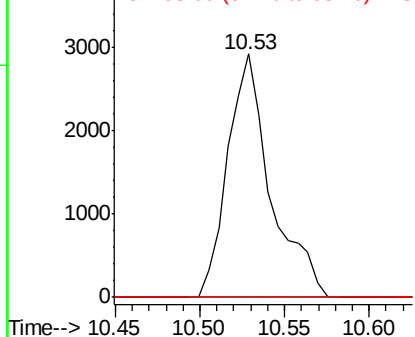
#29  
2,4-Dichlorophenol  
Concen: 2.978 ng  
RT: 10.53 min Scan# 1232  
Delta R.T. -0.00 min  
Lab File: BG038428.D  
Acq: 8 Dec 2018 8:36

Instrument :  
BNA\_G  
ClientSampleId :  
MW-3

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 164     | 0.0   | 43.2  | 83.2# |
| 98      | 0.0   | 16.0  | 56.0# |

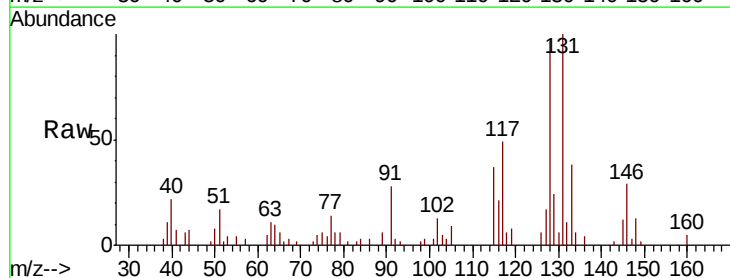


Abundance Ion 162.00 (161.70 to 162.70): E  
Ion 164.00 (163.70 to 164.70): E  
Ion 98.00 (97.70 to 98.70): BGC

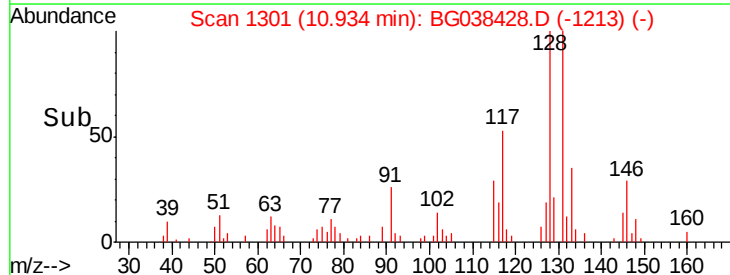
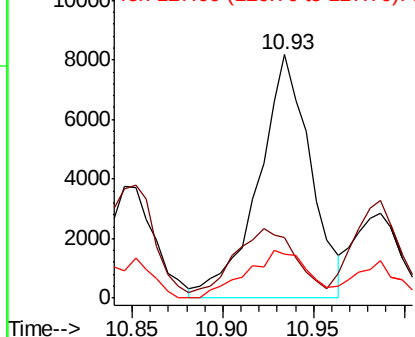


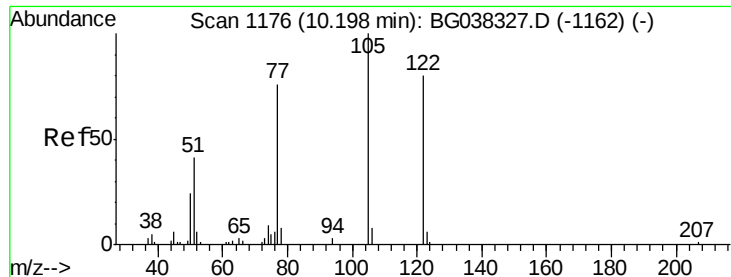
#31  
Naphthalene  
Concen: 3.060 ng  
RT: 10.93 min Scan# 1301  
Delta R.T. -0.01 min  
Lab File: BG038428.D  
Acq: 8 Dec 2018 8:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 25.0  | 9.0   | 13.6# |
| 127     | 18.0  | 11.1  | 16.7# |



Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

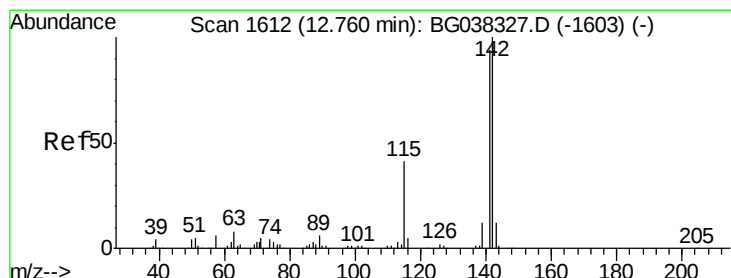
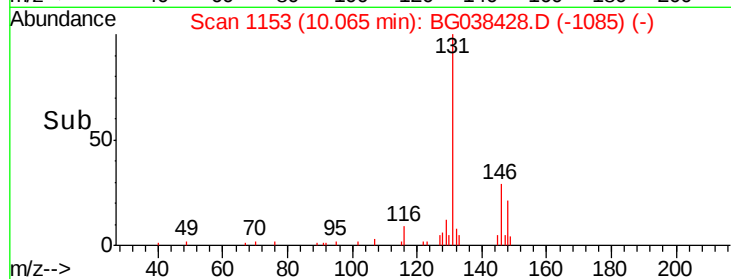
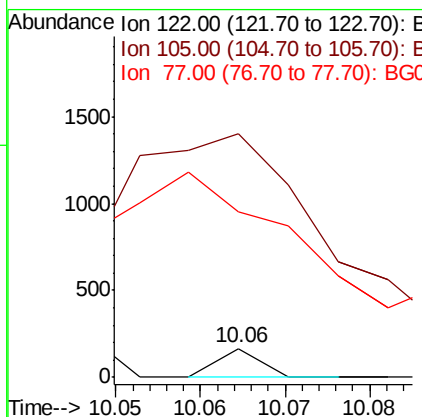
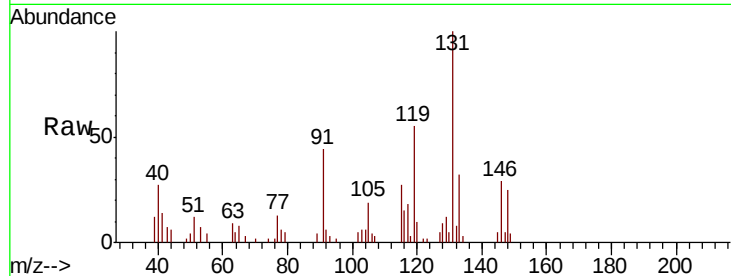




#32  
Benzoic acid  
Concen: 4.806 ng  
RT: 10.06 min Scan# 1153  
Delta R.T. -0.13 min  
Lab File: BG038428.D  
Acq: 8 Dec 2018 8:36

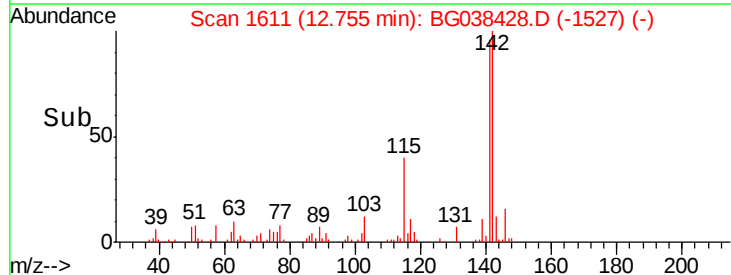
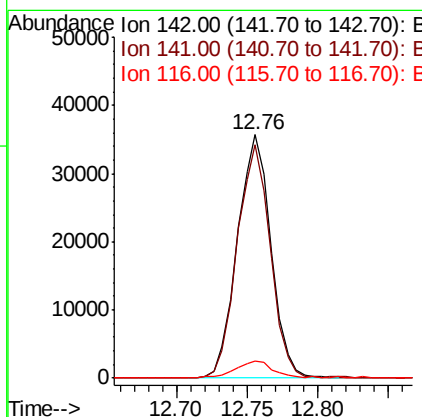
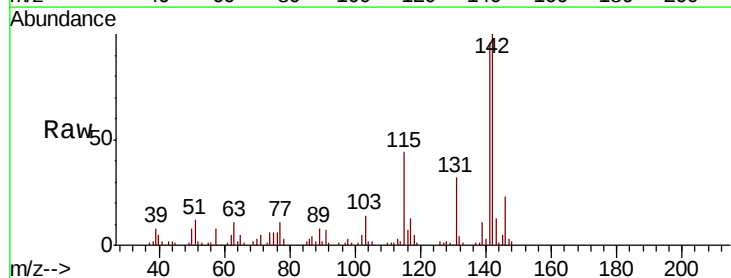
Instrument :  
BNA\_G  
ClientSampleId :  
MW-3

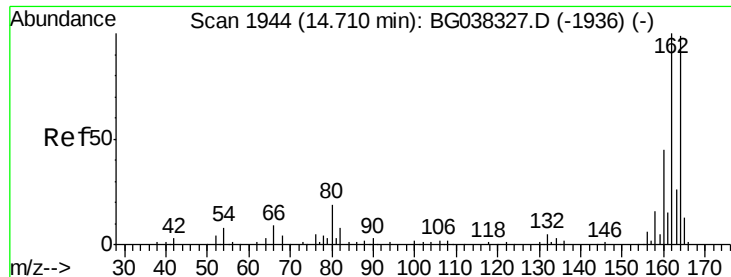
Tgt Ion:122 Resp: 59  
Ion Ratio Lower Upper  
122 100  
105 838.9 106.7 146.7#  
77 572.5 72.2 112.2#



#38  
1-Methylnaphthalene  
Concen: 16.214 ng  
RT: 12.76 min Scan# 1611  
Delta R.T. -0.00 min  
Lab File: BG038428.D  
Acq: 8 Dec 2018 8:36

Tgt Ion:142 Resp: 59160  
Ion Ratio Lower Upper  
142 100  
141 96.0 75.2 112.8  
116 6.9 3.3 4.9#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.70 min Scan# 1942

Delta R.T. -0.01 min

Lab File: BG038428.D

Acq: 8 Dec 2018 8:36

Instrument :

BNA\_G

ClientSampleId :

MW-3

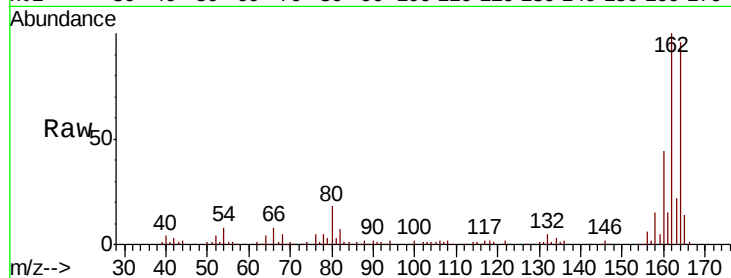
Tgt Ion:164 Resp: 78446

Ion Ratio Lower Upper

164 100

162 103.7 81.3 121.9

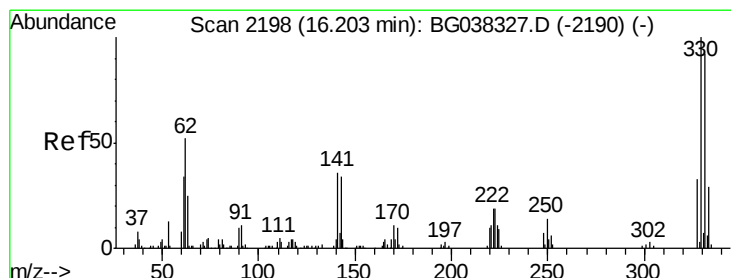
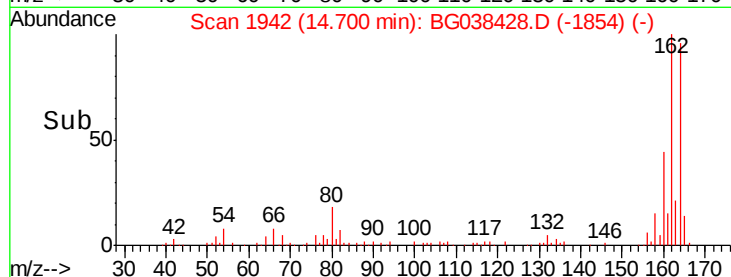
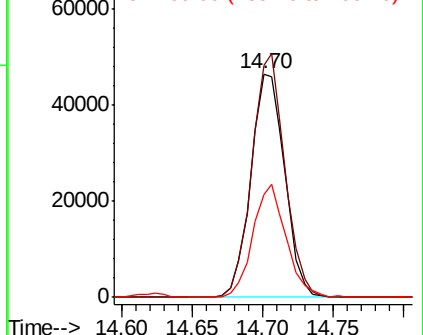
160 45.7 36.3 54.5



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: 153.579 ng

RT: 16.19 min Scan# 2196

Delta R.T. -0.01 min

Lab File: BG038428.D

Acq: 8 Dec 2018 8:36

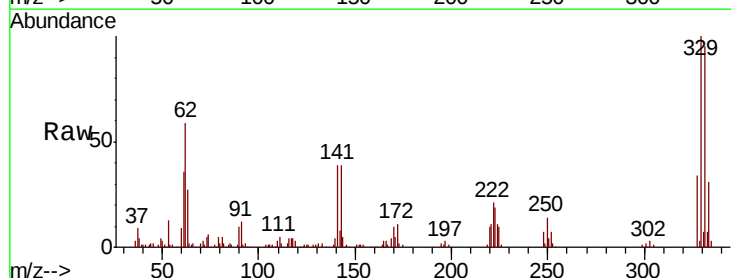
Tgt Ion:330 Resp: 147900

Ion Ratio Lower Upper

330 100

332 95.8 78.4 117.6

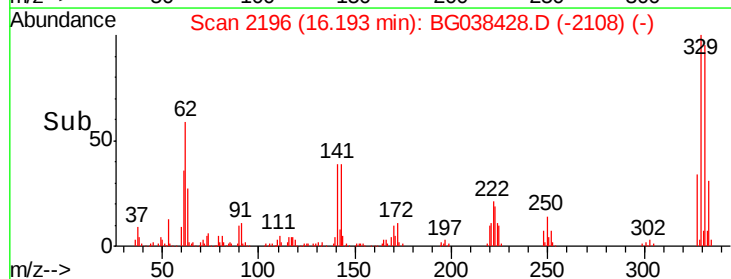
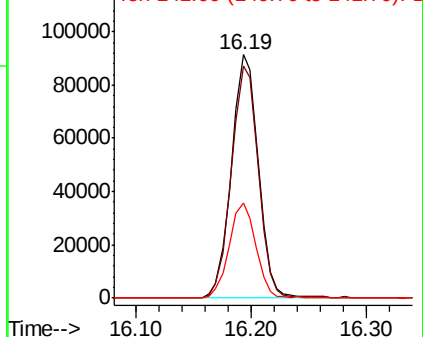
141 39.2 32.2 48.2

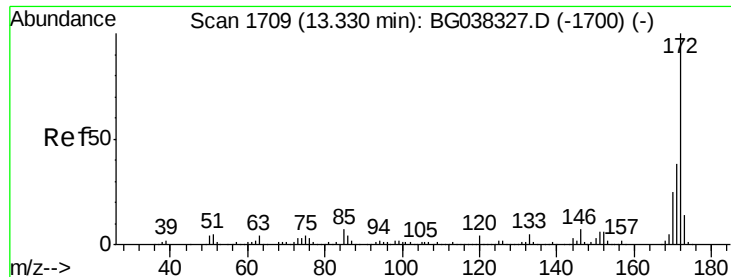


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

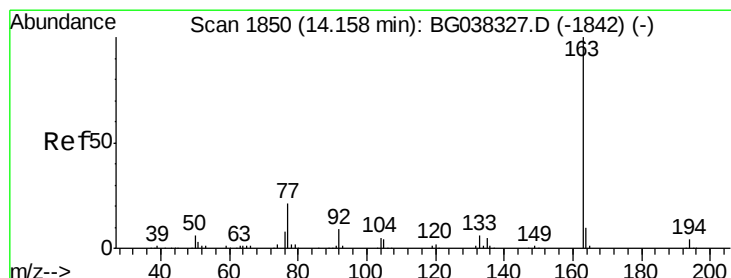
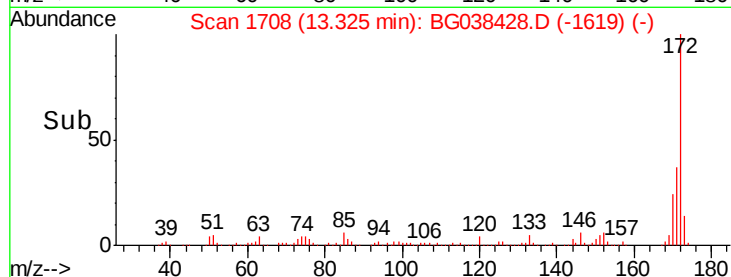
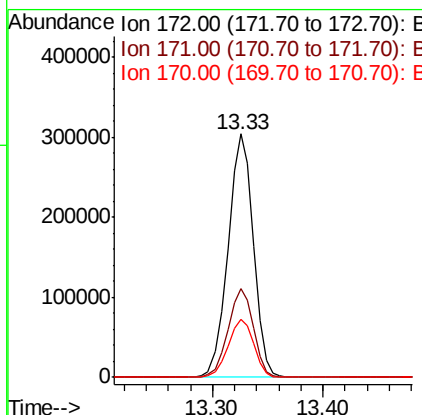
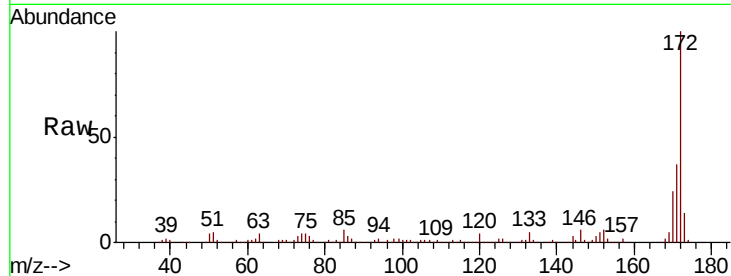




#45  
 2-Fluorobiphenyl  
 Concen: 88.429 ng  
 RT: 13.33 min Scan# 1708  
 Delta R.T. -0.00 min  
 Lab File: BG038428.D  
 Acq: 8 Dec 2018 8:36

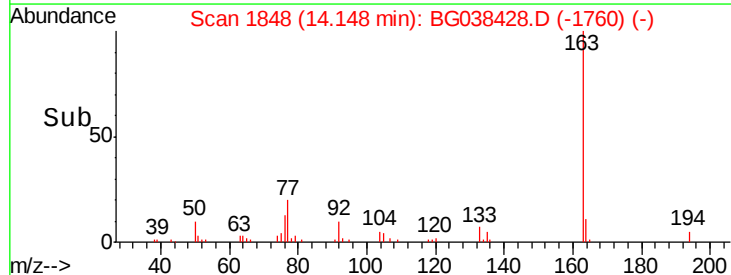
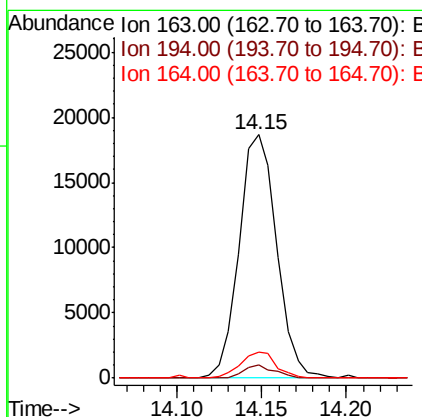
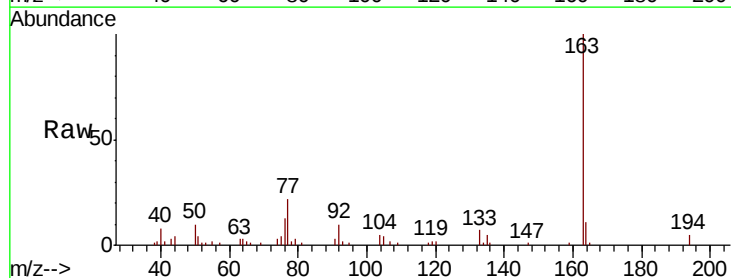
Instrument :  
 BNA\_G  
 ClientSampleId :  
 MW-3

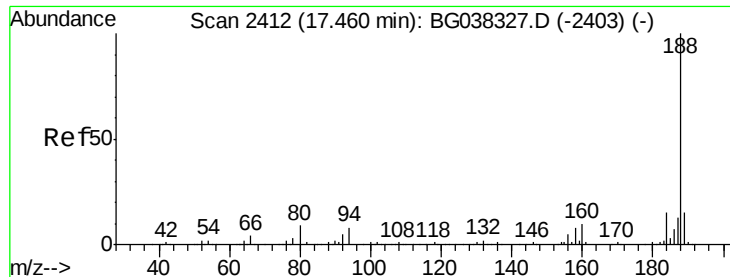
Tgt Ion:172 Resp: 486830  
 Ion Ratio Lower Upper  
 172 100  
 171 36.6 31.0 46.4  
 170 23.7 20.2 30.2



#50  
 Dimethylphthalate  
 Concen: 4.581 ng  
 RT: 14.15 min Scan# 1848  
 Delta R.T. -0.01 min  
 Lab File: BG038428.D  
 Acq: 8 Dec 2018 8:36

Tgt Ion:163 Resp: 28825  
 Ion Ratio Lower Upper  
 163 100  
 194 5.4 3.5 5.3#  
 164 10.6 8.5 12.7

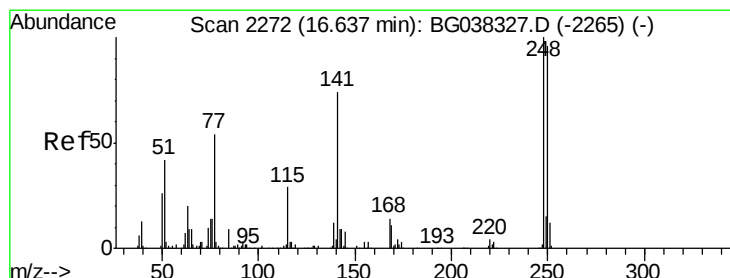
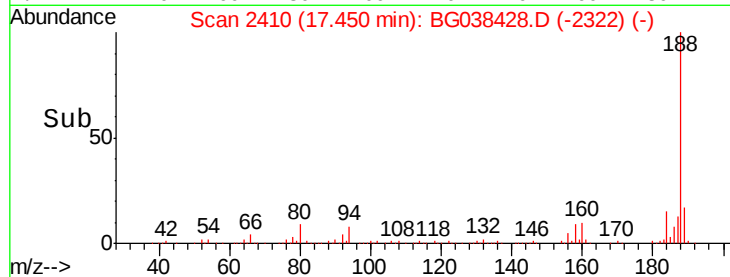
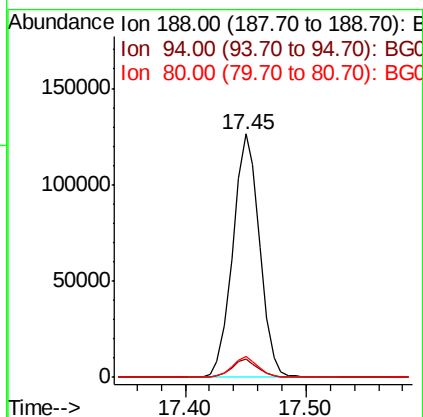
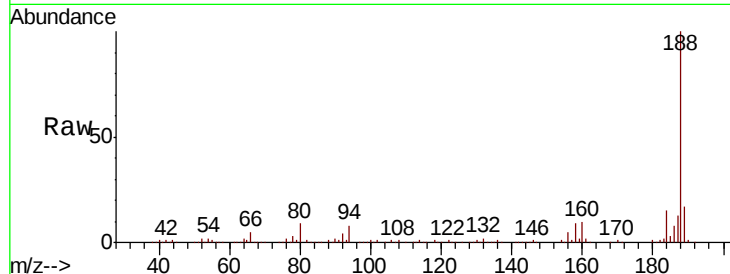




#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.45 min Scan# 2410  
 Delta R.T. -0.01 min  
 Lab File: BG038428.D  
 Acq: 8 Dec 2018 8:36

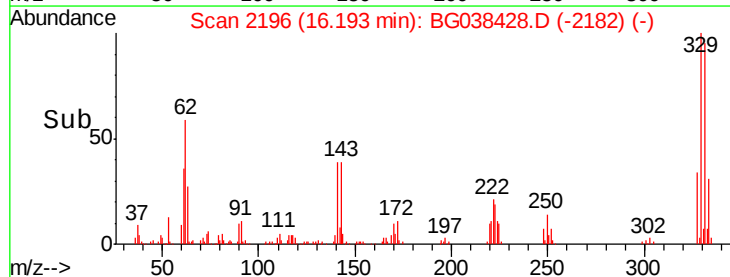
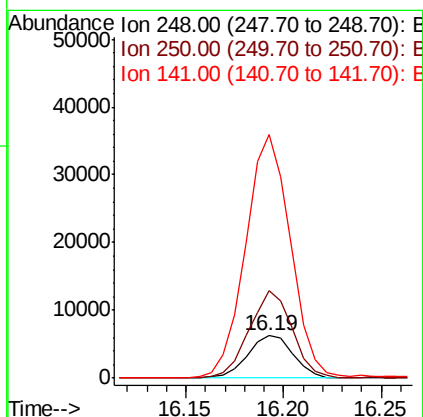
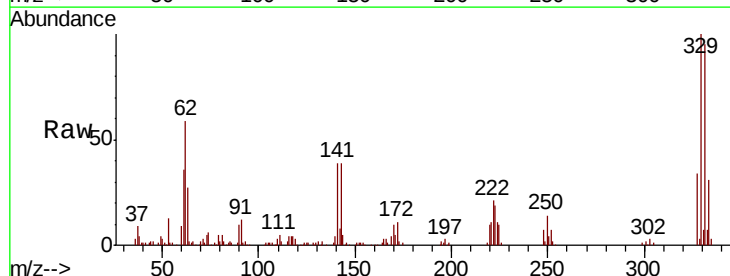
Instrument :  
 BNA\_G  
 ClientSampleId :  
 MW-3

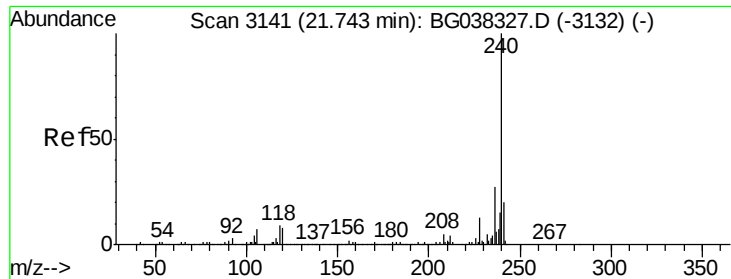
Tgt Ion:188 Resp: 194743  
 Ion Ratio Lower Upper  
 188 100  
 94 7.8 7.2 10.8  
 80 8.7 7.7 11.5



#67  
 4-Bromophenyl-phenylether  
 Concen: 4.824 ng  
 RT: 16.19 min Scan# 2196  
 Delta R.T. -0.44 min  
 Lab File: BG038428.D  
 Acq: 8 Dec 2018 8:36

Tgt Ion:248 Resp: 10146  
 Ion Ratio Lower Upper  
 248 100  
 250 204.3 77.0 115.6#  
 141 442.4 55.5 83.3#

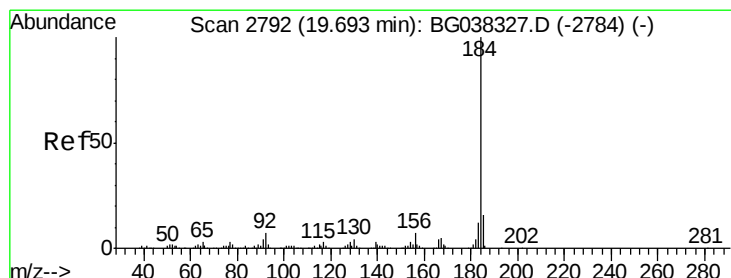
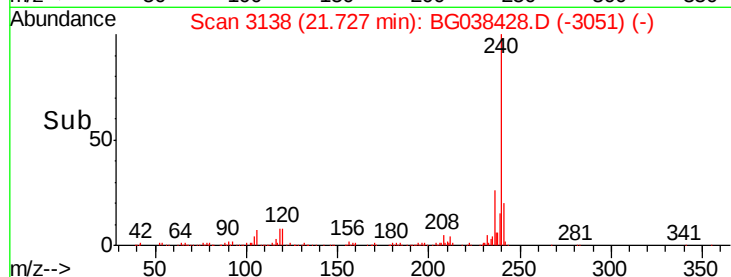
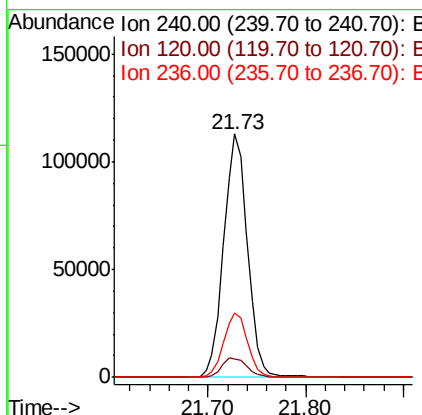
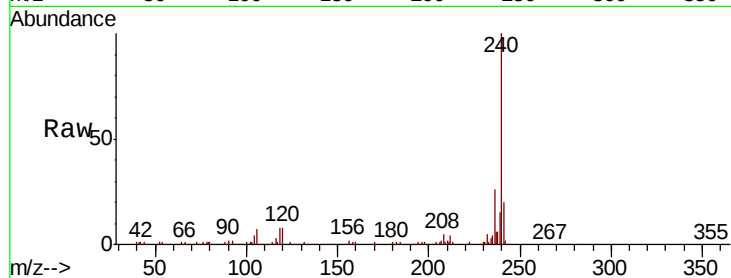




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.73 min Scan# 3138  
Delta R.T. -0.02 min  
Lab File: BG038428.D  
Acq: 8 Dec 2018 8:36

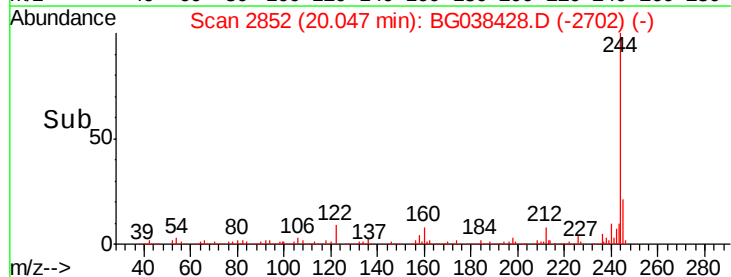
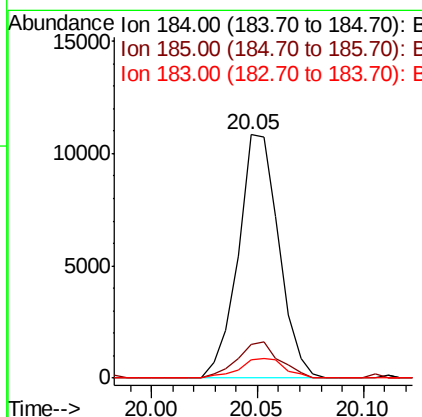
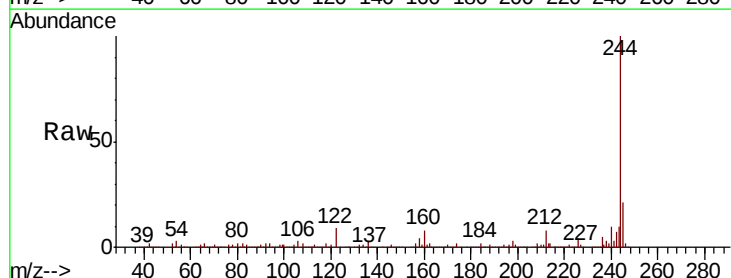
Instrument :  
BNA\_G  
ClientSampleId :  
MW-3

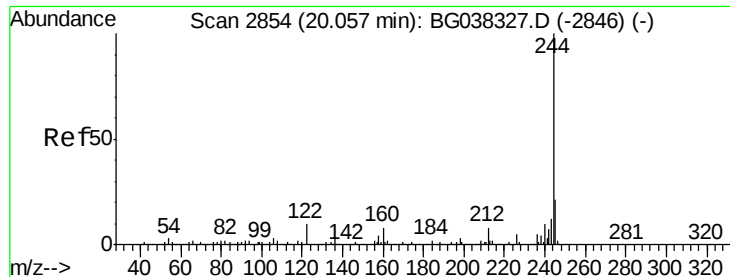
Tgt Ion:240 Resp: 190891  
Ion Ratio Lower Upper  
240 100  
120 7.7 8.1 12.1#  
236 26.3 21.4 32.0



#77  
Benzidine  
Concen: 2.242 ng  
RT: 20.05 min Scan# 2852  
Delta R.T. 0.35 min  
Lab File: BG038428.D  
Acq: 8 Dec 2018 8:36

Tgt Ion:184 Resp: 14443  
Ion Ratio Lower Upper  
184 100  
185 13.9 12.6 18.8  
183 7.5 10.2 15.2#





#79

Terphenyl-d14

Concen: 89.525 ng

RT: 20.05 min Scan# 2853

Delta R.T. -0.00 min

Lab File: BG038428.D

Acq: 8 Dec 2018 8:36

Instrument :

BNA\_G

ClientSampleId :

MW-3

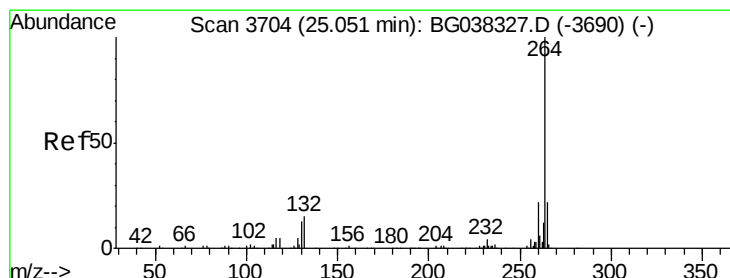
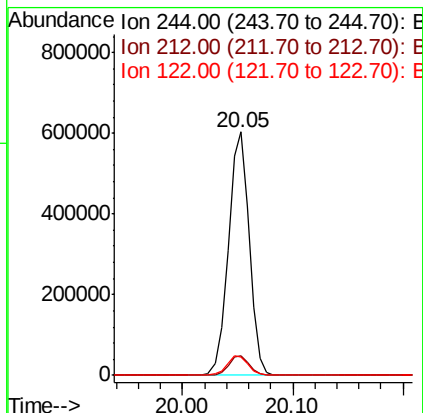
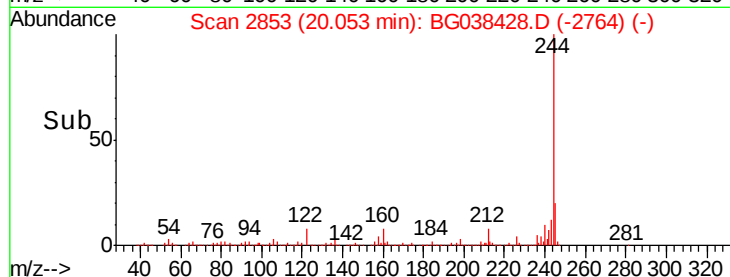
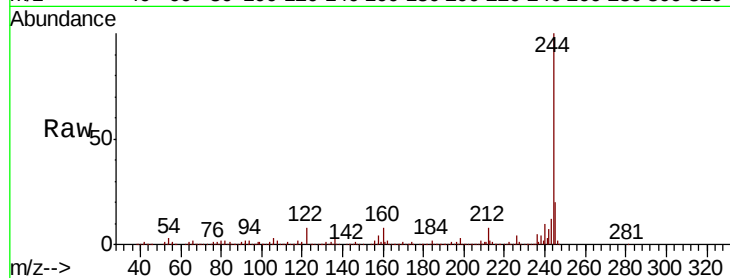
Tgt Ion:244 Resp: 797731

Ion Ratio Lower Upper

244 100

212 8.0 6.5 9.7

122 7.6 9.0 13.4#



#87

Perylene-d12

Concen: 20.000 ng

RT: 25.03 min Scan# 3700

Delta R.T. -0.02 min

Lab File: BG038428.D

Acq: 8 Dec 2018 8:36

Tgt Ion:264 Resp: 200577

Ion Ratio Lower Upper

264 100

260 21.3 18.2 27.4

265 20.7 17.9 26.9

