

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG121719\  
 Data File : BG043830.D  
 Acq On : 17 Dec 2019 21:56  
 Operator : JU  
 Sample : K6317-08  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Dec 18 01:05:58 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG120919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 09 18:16:57 2019  
 Response via : Initial Calibration

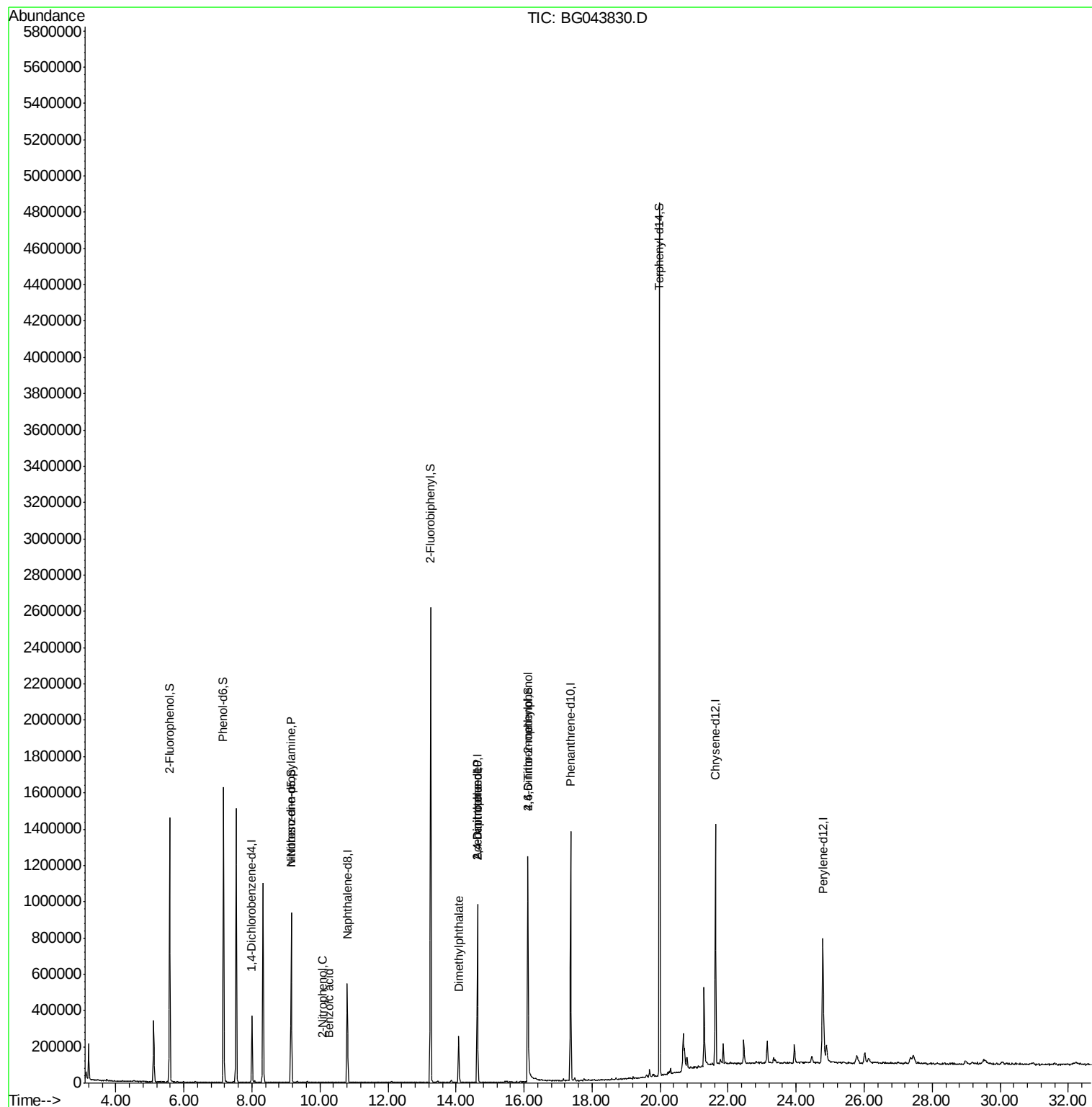
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.00  | 152  | 106987   | 20.00     | ng     | 0.00     |
| 21) Naphthalene-d8             | 10.80 | 136  | 484491   | 20.00     | ng     | 0.00     |
| 39) Acenaphthene-d10           | 14.63 | 164  | 367184   | 20.00     | ng     | 0.00     |
| 64) Phenanthrene-d10           | 17.37 | 188  | 875182   | 20.00     | ng     | 0.00     |
| 76) Chrysene-d12               | 21.63 | 240  | 743280   | 20.00     | ng     | 0.00     |
| 87) Perylene-d12               | 24.78 | 264  | 822100   | 20.00     | ng     | 0.00     |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 5) 2-Fluorophenol              | 5.58  | 112  | 661313   | 117.12    | ng     | 0.00     |
| 7) Phenol-d6                   | 7.16  | 99   | 987032   | 121.21    | ng     | 0.00     |
| 23) Nitrobenzene-d5            | 9.15  | 82   | 568721   | 65.91     | ng     | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.11 | 330  | 246888   | 70.53     | ng     | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.25 | 172  | 1356690  | 64.90     | ng     | 0.00     |
| 79) Terphenyl-d14              | 19.98 | 244  | 2138280  | 69.21     | ng     | 0.00     |
| Target Compounds               |       |      |          |           |        |          |
| 9) Benzaldehyde                | 7.11  | 77   | 110      | Below Cal | Qvalue | # 1      |
| 19) n-Nitroso-di-n-propylamine | 9.15  | 70   | 74146    | 11.910 ng | #      | 75       |
| 26) 2-Nitrophenol              | 10.07 | 139  | 100      | 8.372 ng  | #      | 34       |
| 32) Benzoic acid               | 10.26 | 122  | 75       | 5.665 ng  | #      | 32       |
| 50) Dimethylphthalate          | 14.08 | 163  | 185566   | 7.081 ng  |        | 96       |
| 54) 2,4-Dinitrophenol          | 14.63 | 184  | 59       | 3.977 ng  | #      | 1        |
| 57) 2,4-Dinitrotoluene         | 14.63 | 165  | 48006    | 6.291 ng  | #      | 26       |
| 65) 4,6-Dinitro-2-methylphenol | 16.11 | 198  | 1118     | 9.766 ng  | #      | 38       |

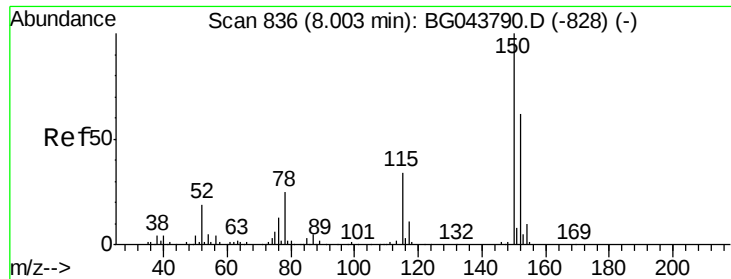
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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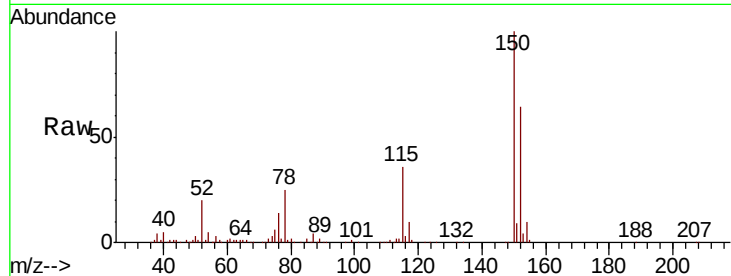


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.00 min Scan# 836  
Delta R.T. -0.00 min  
Lab File: BG043830.D  
Acq: 17 Dec 2019 21:56

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.4 | 128.6 | 192.8 |
| 115     | 57.0  | 44.3  | 66.5  |

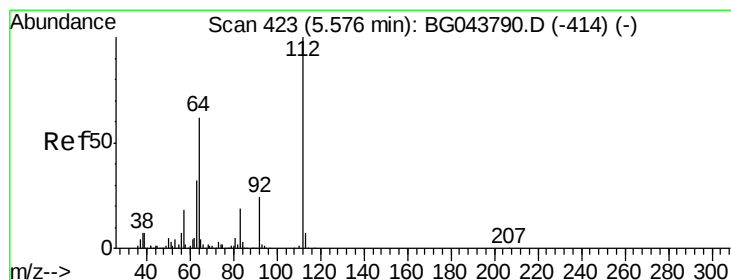
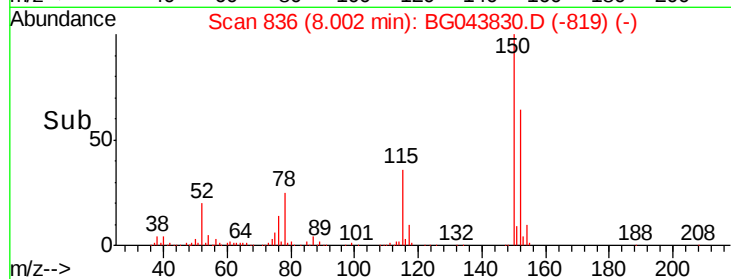
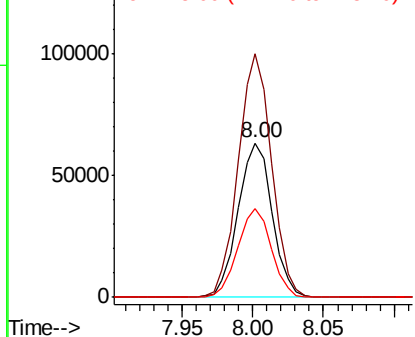


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

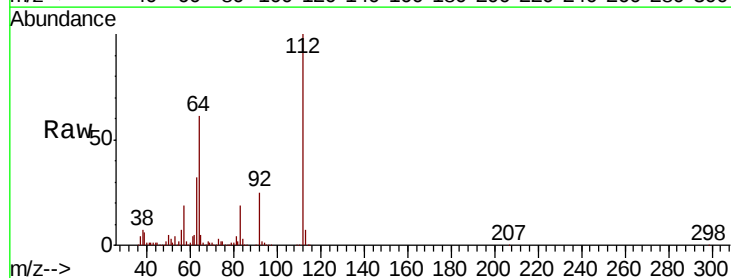
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 117.118 ng  
RT: 5.58 min Scan# 424  
Delta R.T. 0.00 min  
Lab File: BG043830.D  
Acq: 17 Dec 2019 21:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.9  | 49.9  | 74.9  |
| 63      | 31.8  | 26.0  | 39.0  |

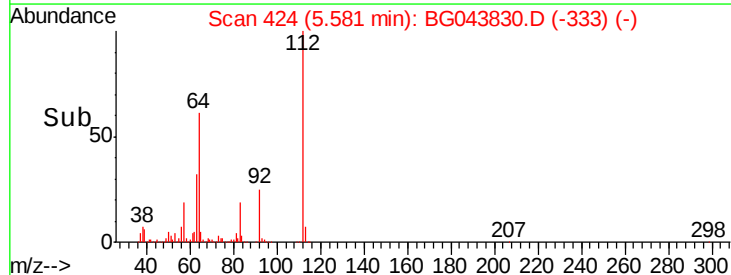
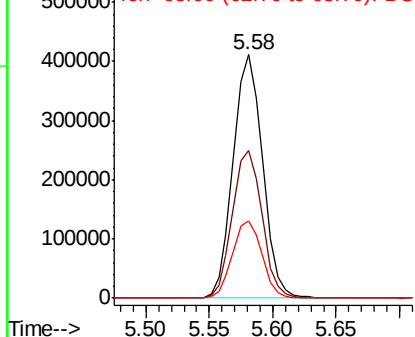


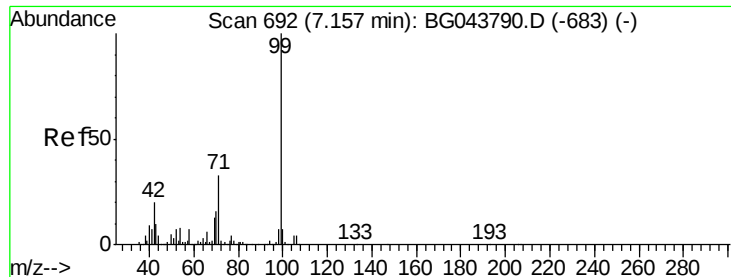
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG

Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 121.206 ng

RT: 7.16 min Scan# 693

Delta R.T. 0.00 min

Lab File: BG043830.D

Acq: 17 Dec 2019 21:56

Instrument :

BNA\_G

ClientSampleId :

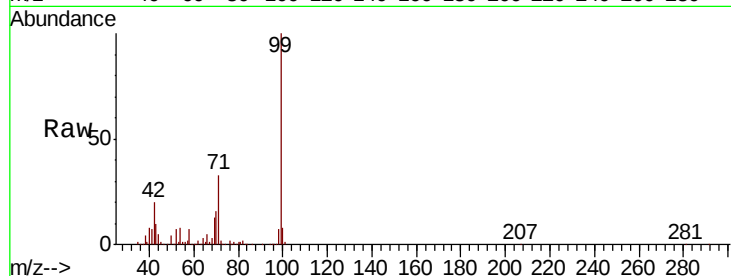
Tot Ion: 99 Resp: 987032

Ion Ratio Lower Upper

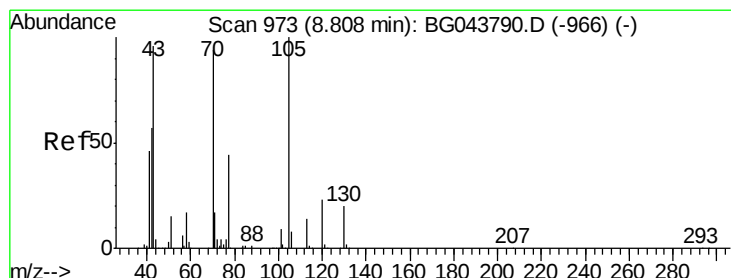
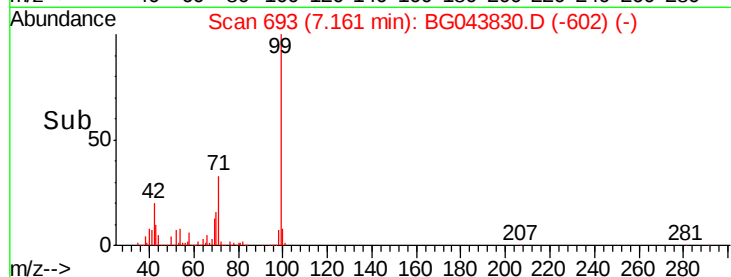
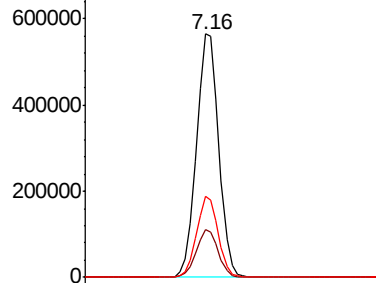
99 100

42 19.6 16.2 24.2

71 33.1 26.6 40.0



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: 11.910 ng

RT: 9.15 min Scan# 1032

Delta R.T. 0.35 min

Lab File: BG043830.D

Acq: 17 Dec 2019 21:56

Tgt Ion: 70 Resp: 74146

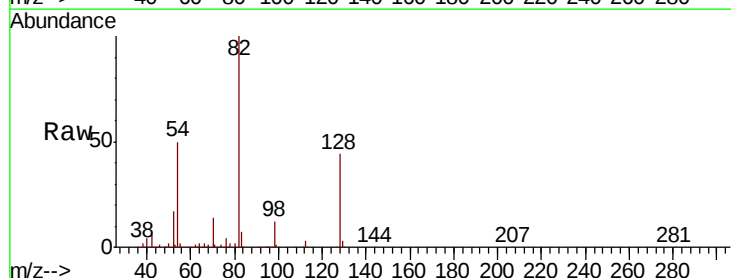
Ion Ratio Lower Upper

70 100

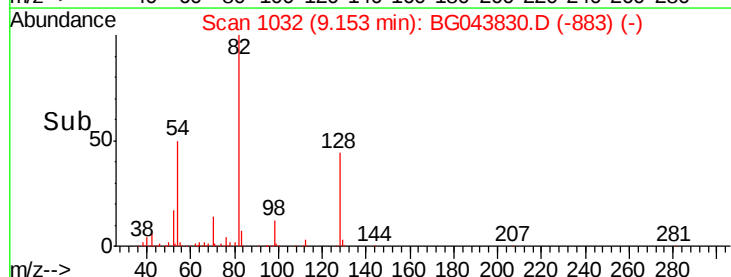
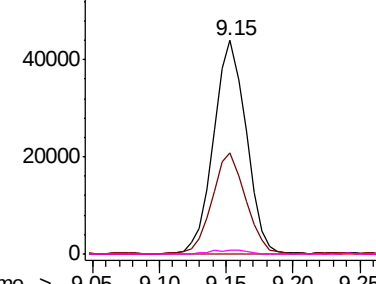
42 47.5 49.2 73.8#

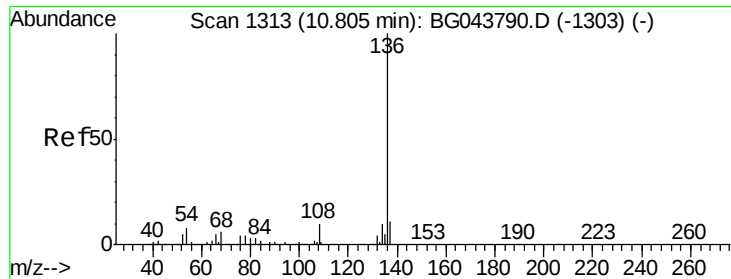
101 0.0 7.8 11.6#

130 1.6 17.0 25.6#



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: 10.80 min Scan# 1313

Delta R.T. -0.00 min

Lab File: BG043830.D

Acq: 17 Dec 2019 21:56

Instrument :

BNA\_G

ClientSampleId :

Tot Ion:136 Resp: 484491

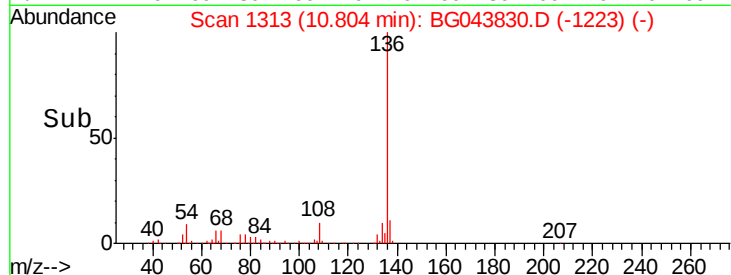
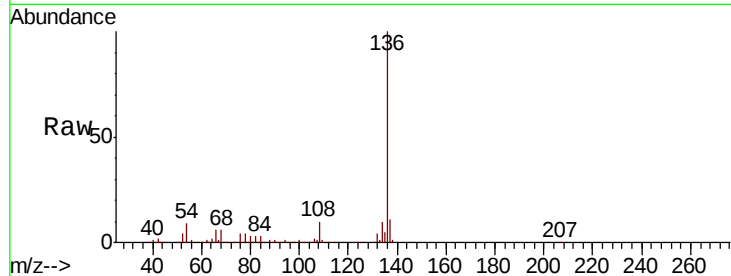
Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

54 8.5 6.8 10.2

68 5.9 5.0 7.4

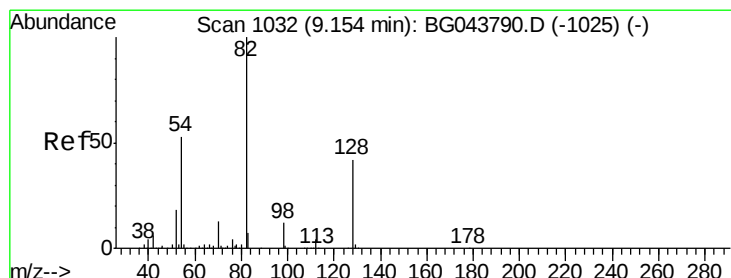
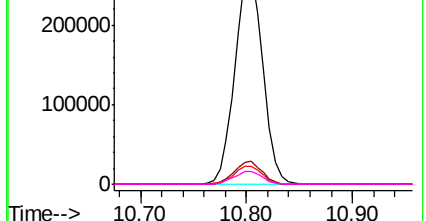


Abundance Ion 136.00 (135.70 to 136.70): E

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: 65.909 ng

RT: 9.15 min Scan# 1032

Delta R.T. -0.00 min

Lab File: BG043830.D

Acq: 17 Dec 2019 21:56

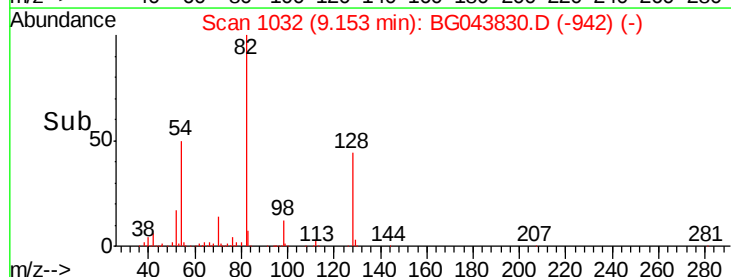
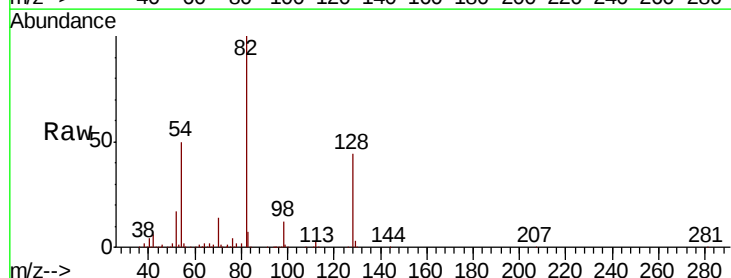
Tgt Ion: 82 Resp: 568721

Ion Ratio Lower Upper

82 100

128 44.1 33.6 50.4

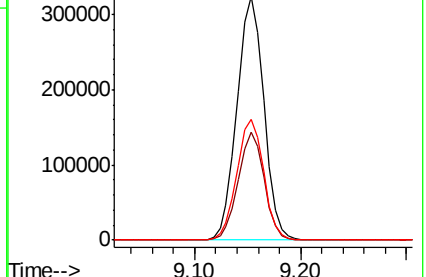
54 49.8 42.1 63.1

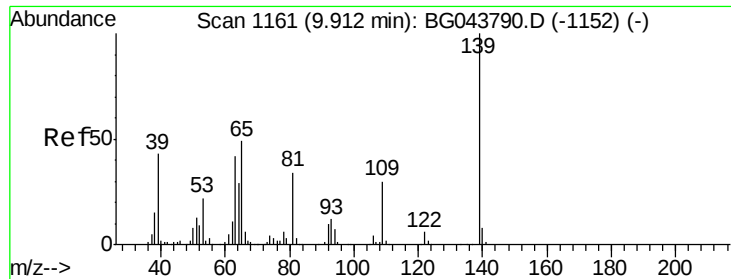


Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BGC

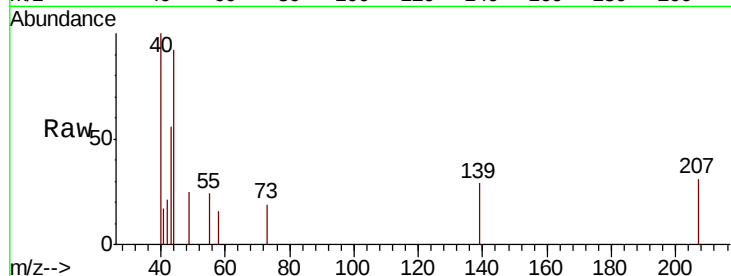




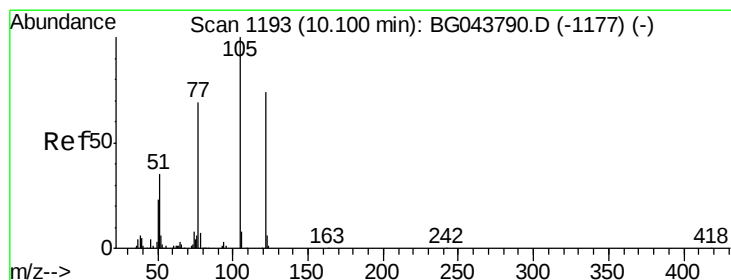
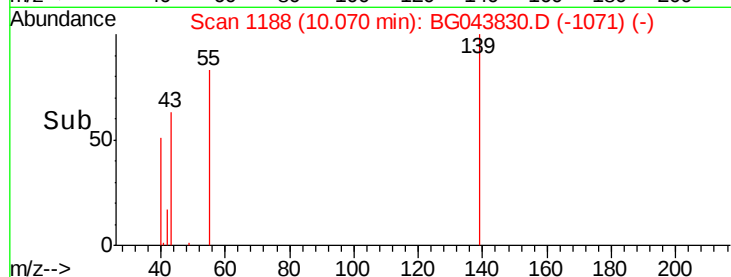
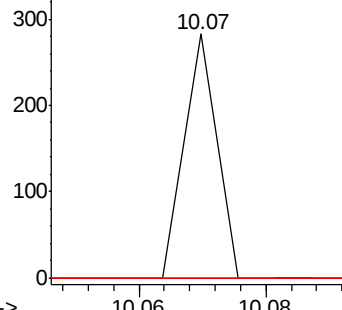
#26  
2-Nitrophenol  
Concen: 8.372 ng  
RT: 10.07 min Scan# 1188  
Delta R.T. 0.16 min  
Lab File: BG043830.D  
Acq: 17 Dec 2019 21:56

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 139     | 100   |       |       |
| 109     | 0.0   | 23.9  | 35.9# |
| 65      | 0.0   | 39.3  | 58.9# |

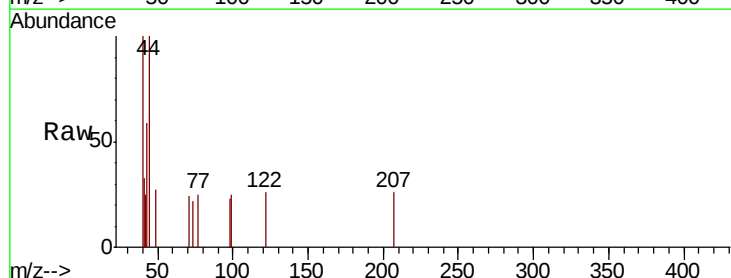


Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): BGC

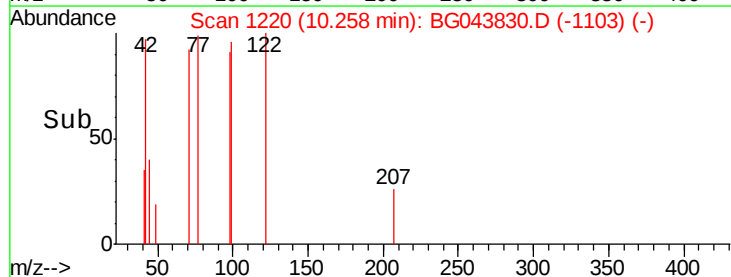
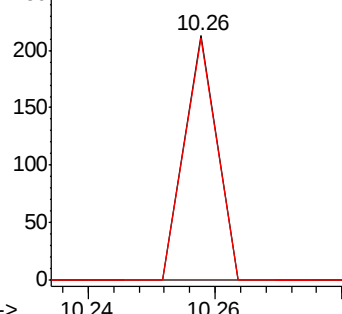


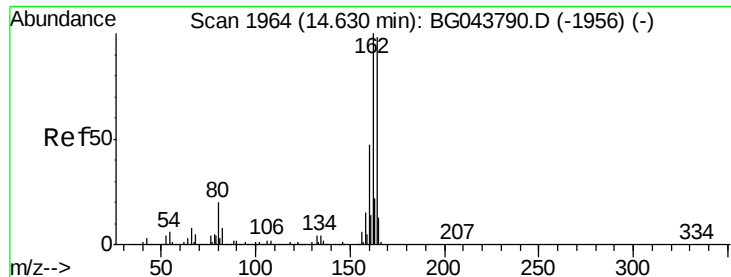
#32  
Benzoic acid  
Concen: 5.665 ng  
RT: 10.26 min Scan# 1220  
Delta R.T. 0.16 min  
Lab File: BG043830.D  
Acq: 17 Dec 2019 21:56

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 122     | 100   |       |        |
| 105     | 0.0   | 107.5 | 147.5# |
| 77      | 99.1  | 71.7  | 111.7  |



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

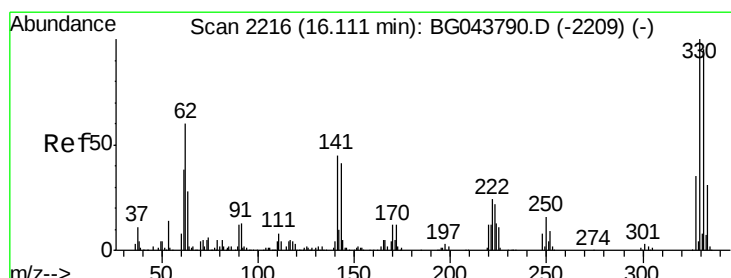
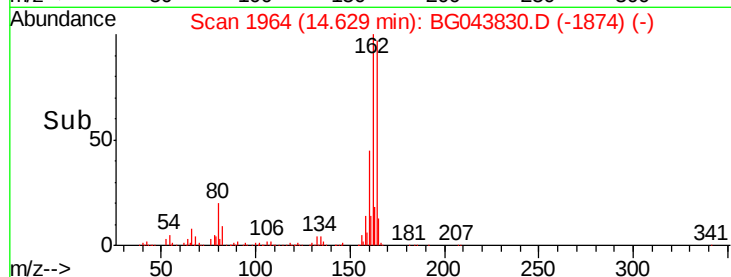
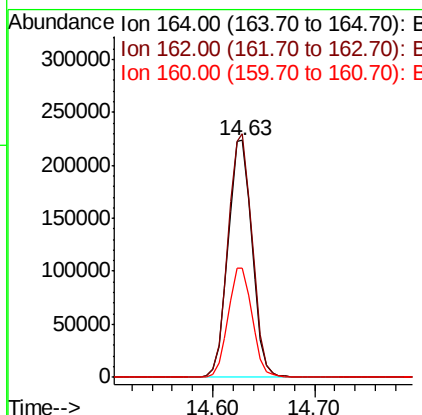
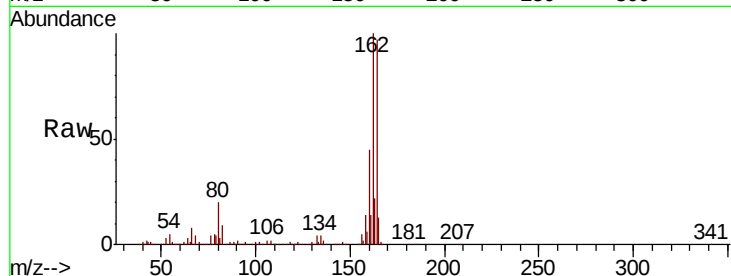




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.63 min Scan# 1964  
Delta R.T. -0.00 min  
Lab File: BG043830.D  
Acq: 17 Dec 2019 21:56

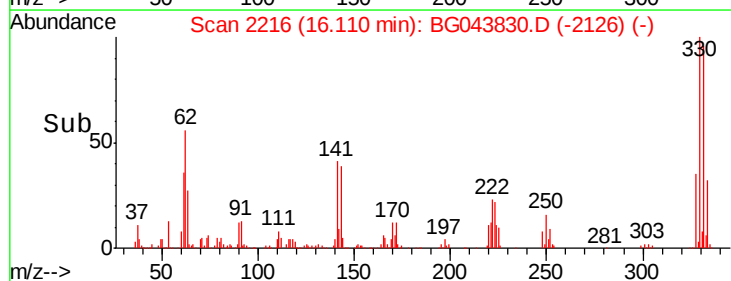
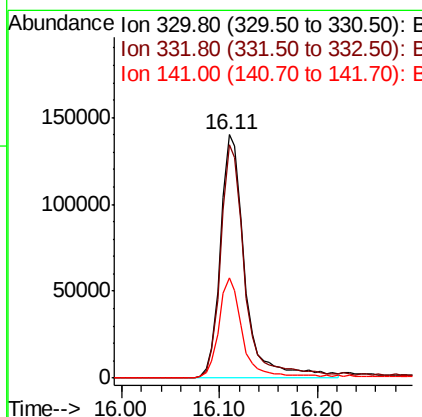
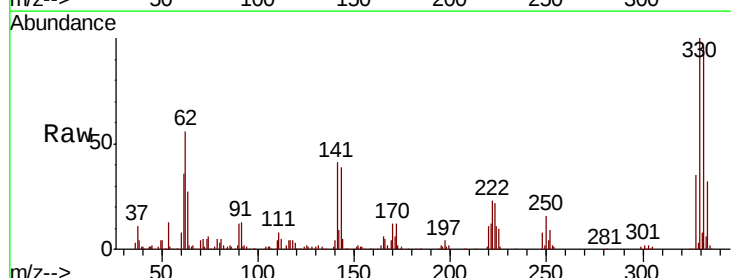
Instrument :  
BNA\_G  
ClientSampleId :

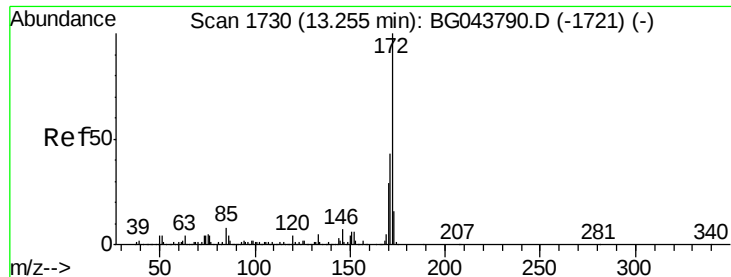
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.8 | 81.9  | 122.9 |
| 160     | 46.1  | 38.3  | 57.5  |



#42  
2,4,6-Tribromophenol  
Concen: 70.528 ng  
RT: 16.11 min Scan# 2216  
Delta R.T. -0.00 min  
Lab File: BG043830.D  
Acq: 17 Dec 2019 21:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.8  | 76.9  | 115.3 |
| 141     | 38.7  | 33.8  | 50.8  |

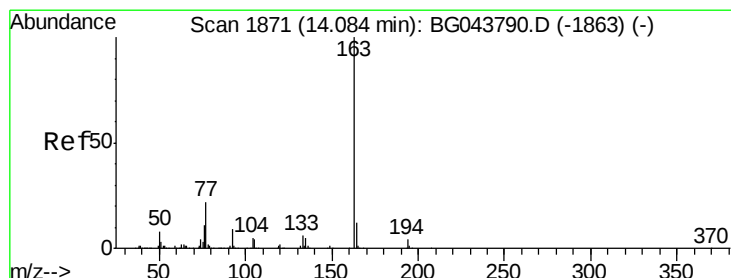
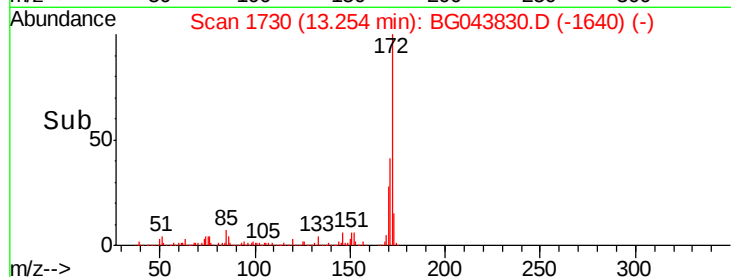
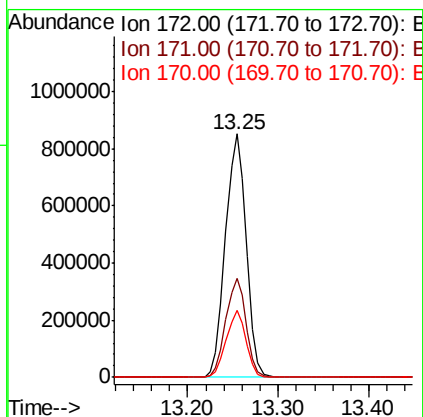
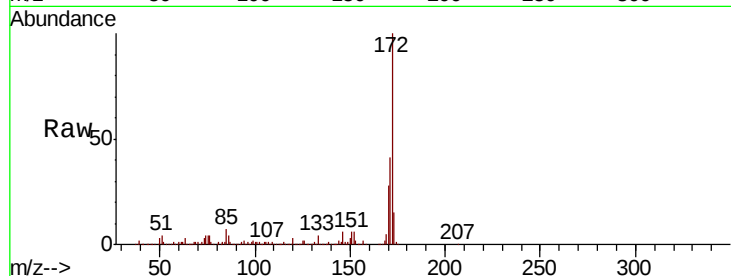




#45  
2-Fluorobiphenyl  
Concen: 64.903 ng  
RT: 13.25 min Scan# 1730  
Delta R.T. -0.00 min  
Lab File: BG043830.D  
Acq: 17 Dec 2019 21:56

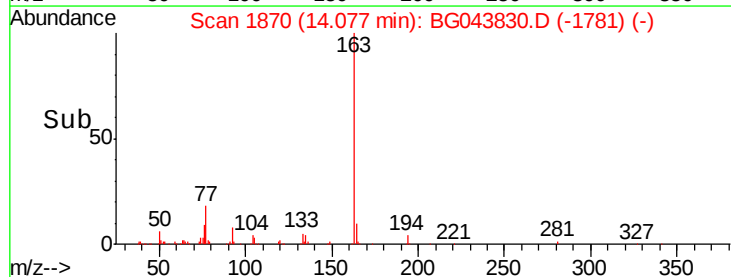
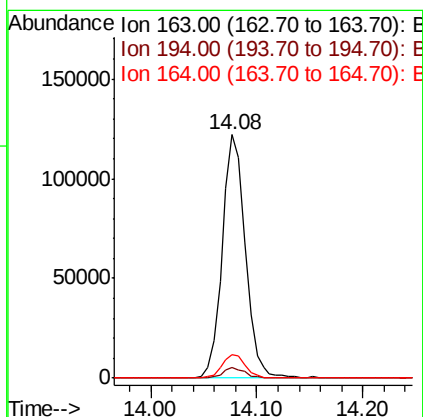
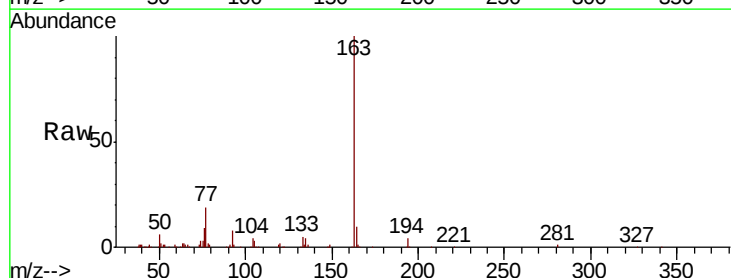
Instrument :  
BNA\_G  
ClientSampled :

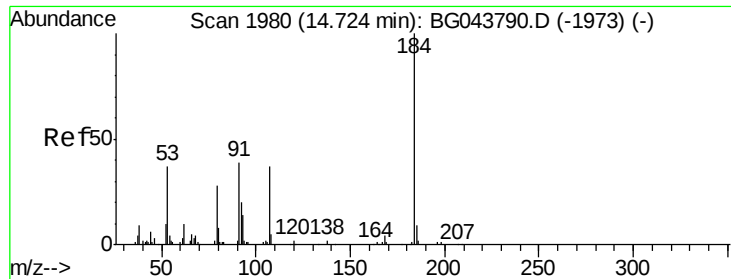
Tot Ion:172 Resp: 1356690  
Ion Ratio Lower Upper  
172 100  
171 40.7 34.6 51.8  
170 27.6 23.3 34.9



#50  
Dimethylphthalate  
Concen: 7.081 ng  
RT: 14.08 min Scan# 1870  
Delta R.T. -0.01 min  
Lab File: BG043830.D  
Acq: 17 Dec 2019 21:56

Tgt Ion:163 Resp: 185566  
Ion Ratio Lower Upper  
163 100  
194 4.3 3.6 5.4  
164 9.7 9.4 14.0

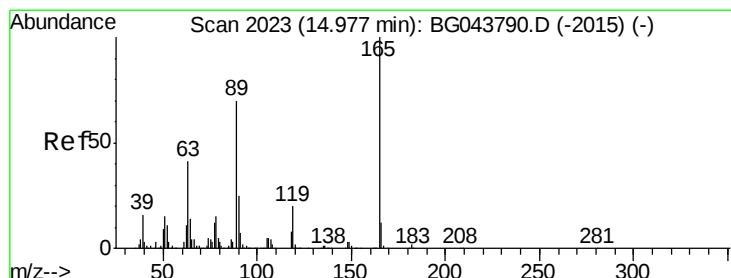
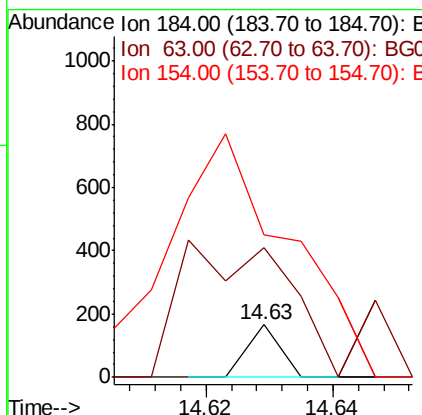
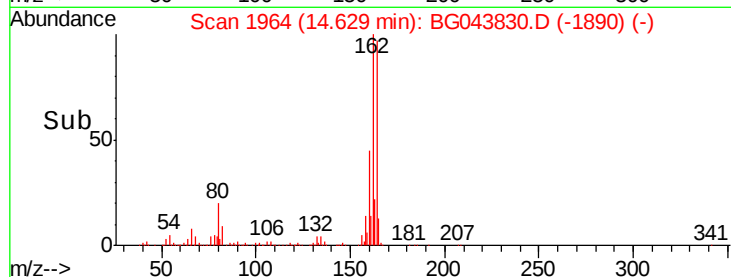
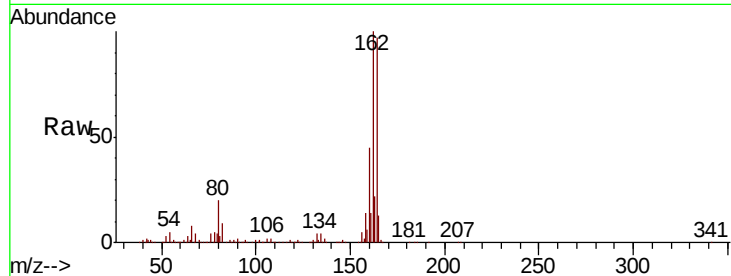




#54  
2,4-Dinitrophenol  
Concen: 3.977 ng  
RT: 14.63 min Scan# 1964  
Delta R.T. -0.10 min  
Lab File: BG043830.D  
Acq: 17 Dec 2019 21:56

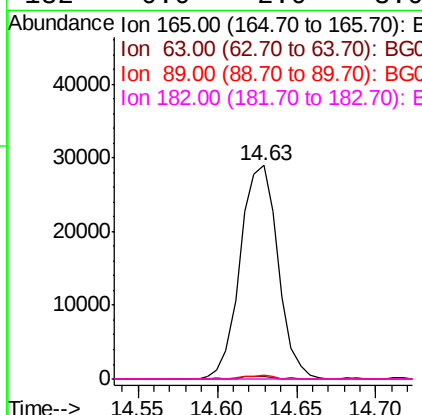
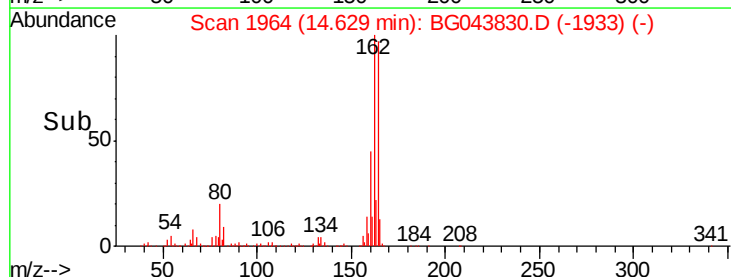
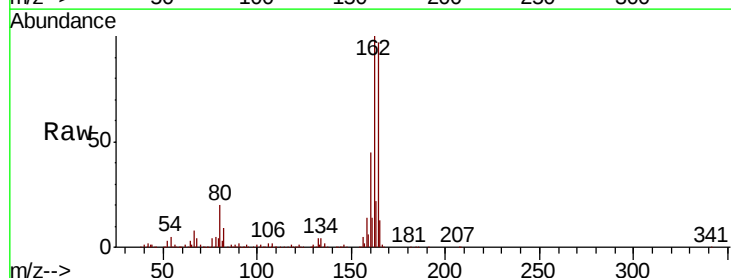
Instrument :  
BNA\_G  
ClientSampleId :

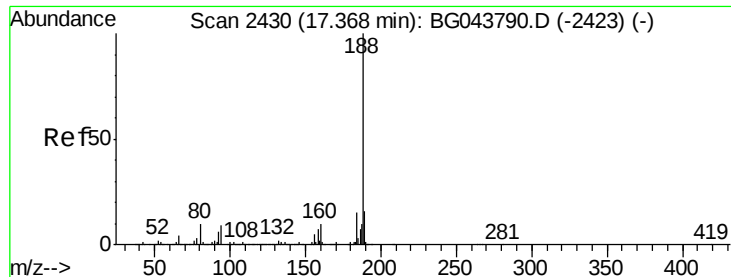
Tot Ion:184 Resp: 59  
Ion Ratio Lower Upper  
184 100  
63 246.4 43.4 65.0#  
154 271.7 54.8 82.2#



#57  
2,4-Dinitrotoluene  
Concen: 6.291 ng  
RT: 14.63 min Scan# 1964  
Delta R.T. -0.35 min  
Lab File: BG043830.D  
Acq: 17 Dec 2019 21:56

Tgt Ion:165 Resp: 48006  
Ion Ratio Lower Upper  
165 100  
63 1.4 32.7 49.1#  
89 1.7 56.1 84.1#  
182 0.0 2.0 3.0#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.37 min Scan# 2430

Delta R.T. -0.00 min

Lab File: BG043830.D

Acq: 17 Dec 2019 21:56

Instrument :

BNA\_G

ClientSampleId :

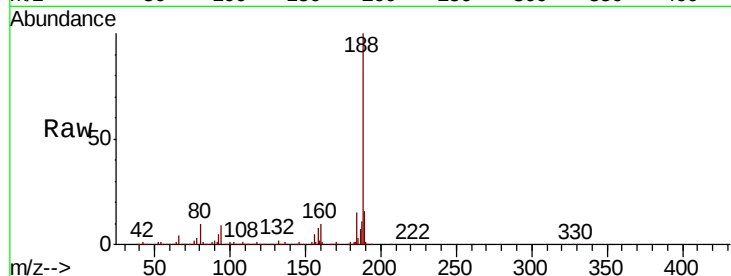
Tot Ion:188 Resp: 875182

Ion Ratio Lower Upper

188 100

94 9.0 6.9 10.3

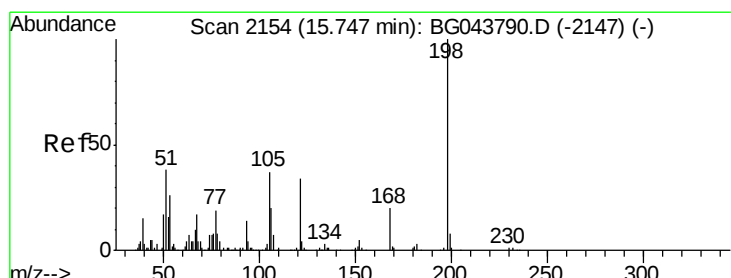
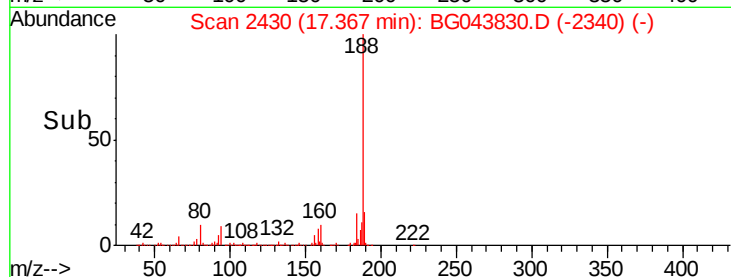
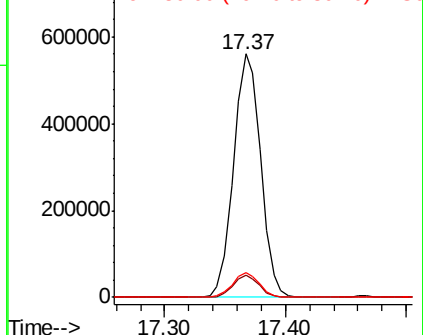
80 10.2 7.8 11.8



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: 9.766 ng

RT: 16.11 min Scan# 2216

Delta R.T. 0.36 min

Lab File: BG043830.D

Acq: 17 Dec 2019 21:56

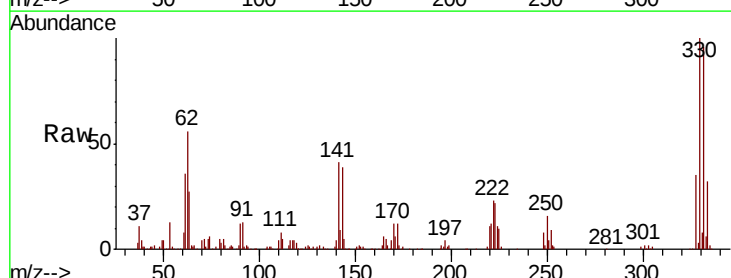
Tgt Ion:198 Resp: 1118

Ion Ratio Lower Upper

198 100

51 58.0 18.9 58.9

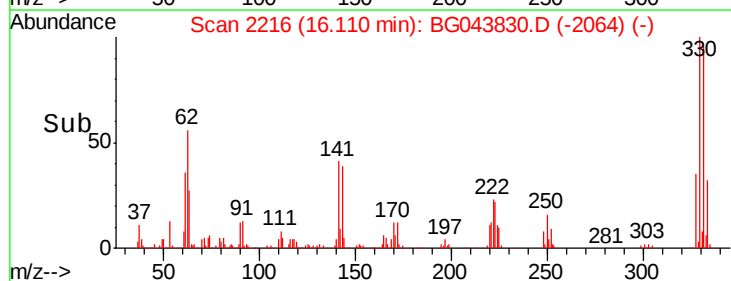
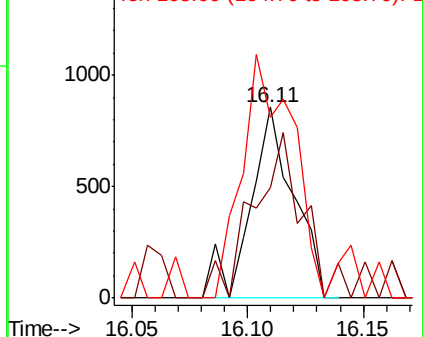
105 94.7 18.1 58.1#

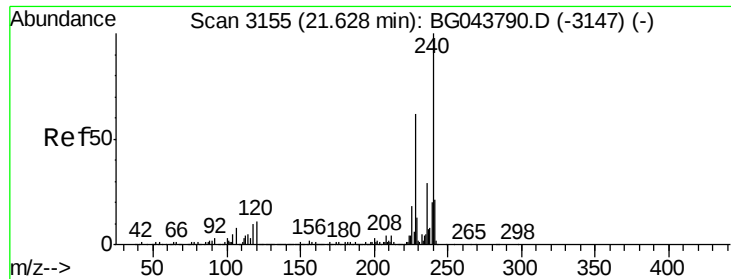


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BG

Ion 105.00 (104.70 to 105.70): E





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.63 min Scan# 3155

Delta R.T. -0.00 min

Lab File: BG043830.D

Acq: 17 Dec 2019 21:56

Instrument :

BNA\_G

ClientSampleId :

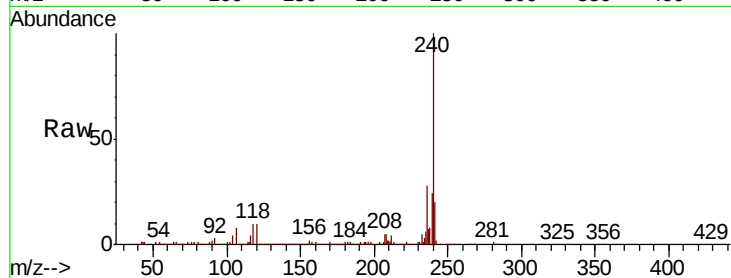
Tot Ion:240 Resp: 743280

Ion Ratio Lower Upper

240 100

120 10.1 8.6 12.8

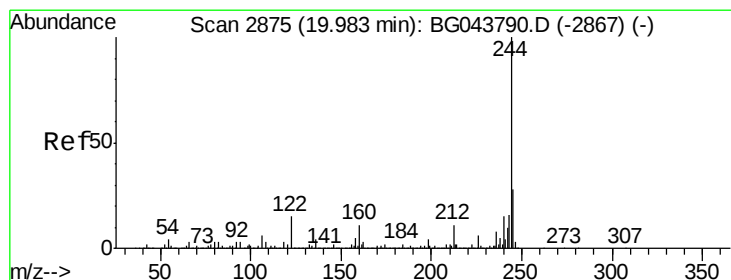
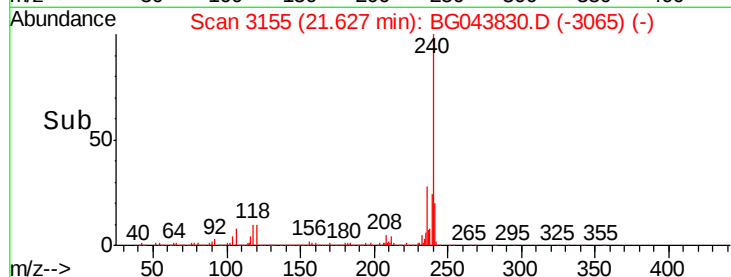
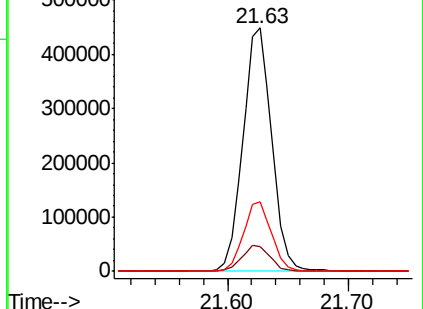
236 28.4 23.1 34.7



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



#79

Terphenyl-d14

Concen: 69.210 ng

RT: 19.98 min Scan# 2875

Delta R.T. -0.00 min

Lab File: BG043830.D

Acq: 17 Dec 2019 21:56

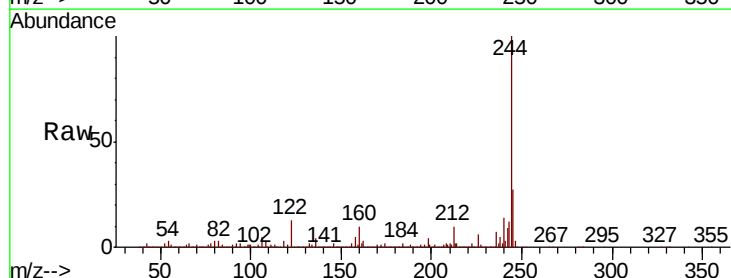
Tgt Ion:244 Resp: 2138280

Ion Ratio Lower Upper

244 100

212 10.4 9.1 13.7

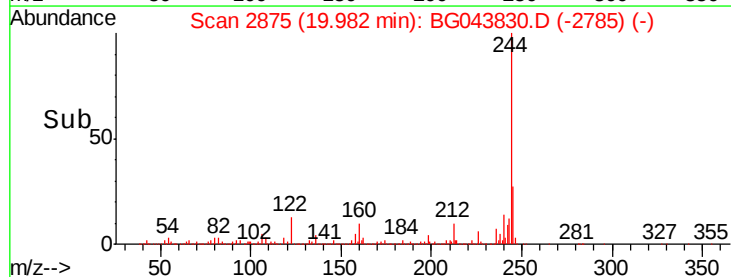
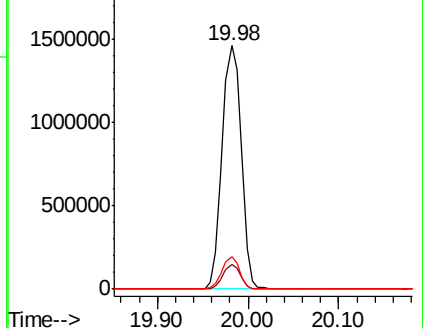
122 13.1 11.6 17.4

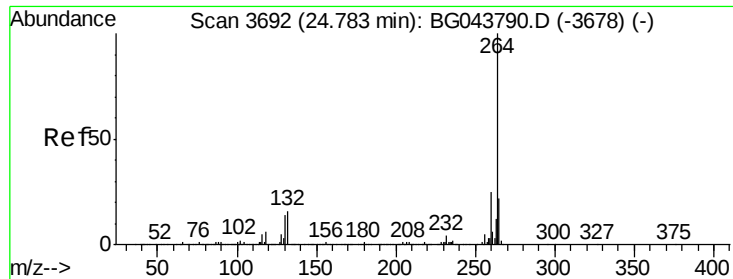


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 24.78 min Scan# 3692  
 Delta R.T. -0.00 min  
 Lab File: BG043830.D  
 Acq: 17 Dec 2019 21:56

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.7  | 19.8  | 29.8  |
| 265     | 21.8  | 17.9  | 26.9  |

