

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG091619\  
 Data File : BG042851.D  
 Acq On : 16 Sep 2019 16:38  
 Operator : HP/JU  
 Sample : K4821-01  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Sep 17 01:20:00 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG091219.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Sep 12 14:06:09 2019  
 Response via : Initial Calibration

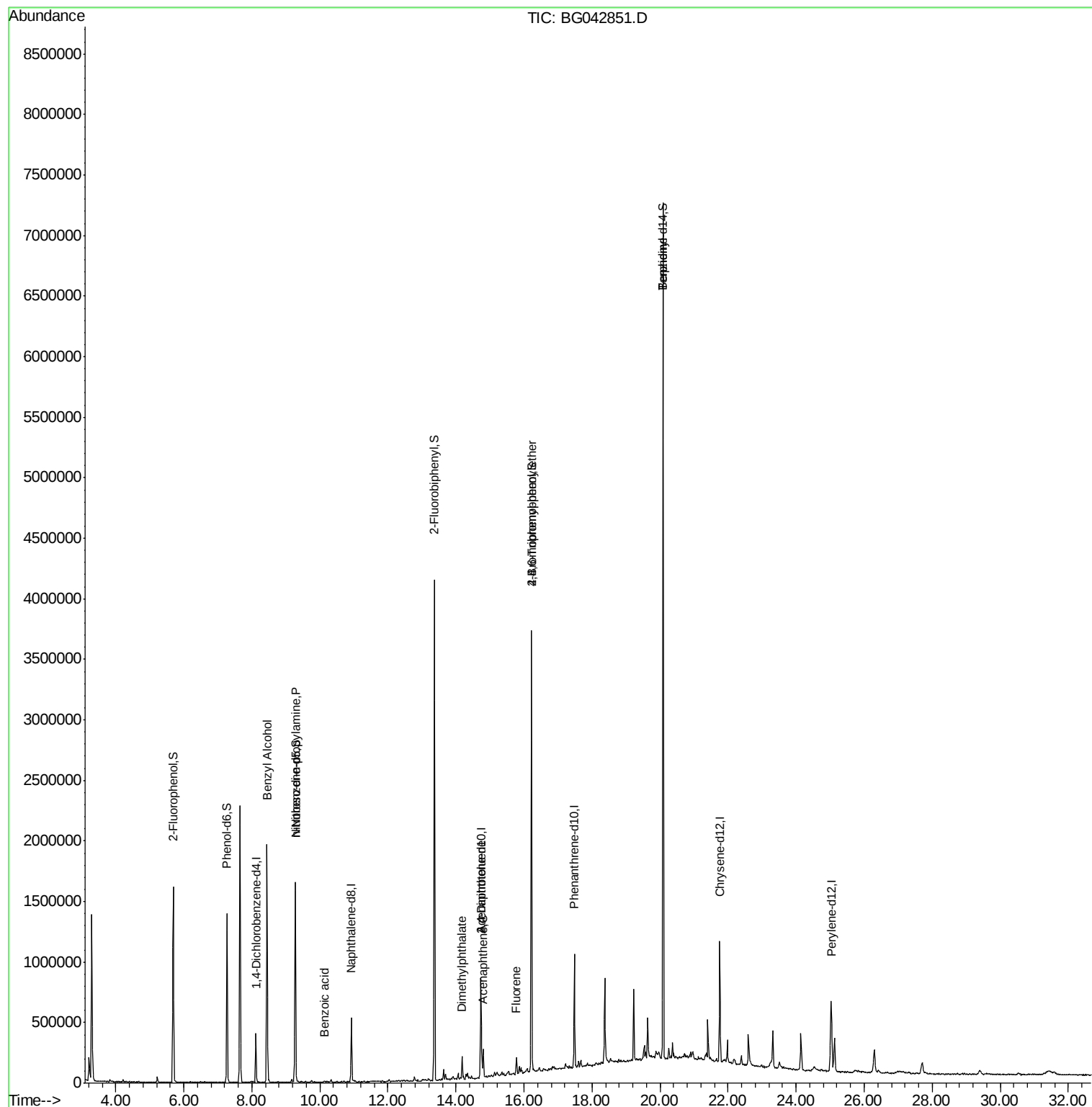
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 8.12  | 152  | 118339   | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8             | 10.92 | 136  | 442442   | 20.00  | ng    | -0.01       |
| 39) Acenaphthene-d10           | 14.74 | 164  | 291796   | 20.00  | ng    | 0.00        |
| 64) Phenanthrene-d10           | 17.47 | 188  | 601164   | 20.00  | ng    | -0.01       |
| 76) Chrysene-d12               | 21.76 | 240  | 597303   | 20.00  | ng    | 0.00        |
| 87) Perylene-d12               | 25.02 | 264  | 685992   | 20.00  | ng    | -0.02       |
| System Monitoring Compounds    |       |      |          |        |       |             |
| 5) 2-Fluorophenol              | 5.69  | 112  | 671144   | 98.60  | ng    | 0.00        |
| 7) Phenol-d6                   | 7.27  | 99   | 783705   | 80.22  | ng    | 0.00        |
| 23) Nitrobenzene-d5            | 9.28  | 82   | 1050463  | 123.61 | ng    | 0.00        |
| 42) 2,4,6-Tribromophenol       | 16.22 | 330  | 710357   | 182.98 | ng    | 0.00        |
| 45) 2-Fluorobiphenyl           | 13.37 | 172  | 2154448  | 116.87 | ng    | 0.00        |
| 79) Terphenyl-d14              | 20.09 | 244  | 2956488  | 109.70 | ng    | 0.00        |
| Target Compounds               |       |      |          |        |       |             |
| 15) Benzyl Alcohol             | 8.44  | 79   | 16797    | 2.003  | ng    | Qvalue # 51 |
| 19) n-Nitroso-di-n-propylamine | 9.28  | 70   | 151569   | 21.054 | ng    | # 66        |
| 32) Benzoic acid               | 10.11 | 122  | 602      | 6.069  | ng    | 91          |
| 50) Dimethylphthalate          | 14.18 | 163  | 118386   | 5.416  | ng    | 98          |
| 52) Acenaphthene               | 14.79 | 154  | 83868    | 4.971  | ng    | 96          |
| 57) 2,4-Dinitrotoluene         | 14.74 | 165  | 40230    | 6.729  | ng    | # 25        |
| 58) Fluorene                   | 15.78 | 166  | 57747    | 2.779  | ng    | 95          |
| 67) 4-Bromophenyl-phenylether  | 16.22 | 248  | 50210    | 6.900  | ng    | # 1         |
| 77) Benzidine                  | 20.09 | 184  | 60784    | 3.642  | ng    | # 93        |

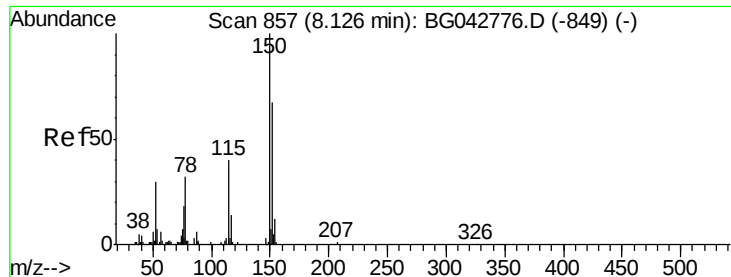
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG091619\  
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Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Sep 17 01:20:00 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG091219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Sep 12 14:06:09 2019  
Response via : Initial Calibration



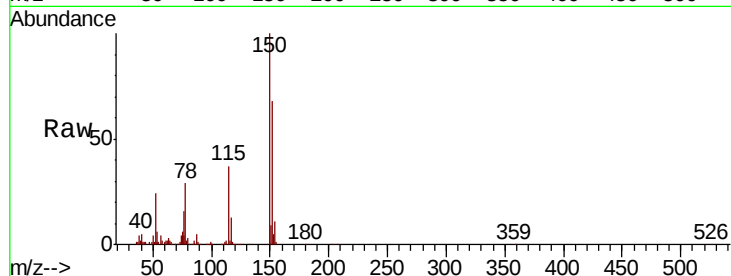


#1

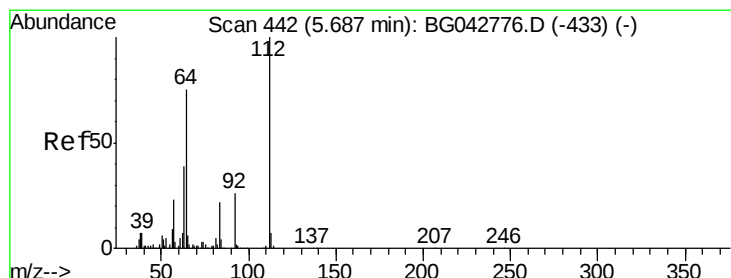
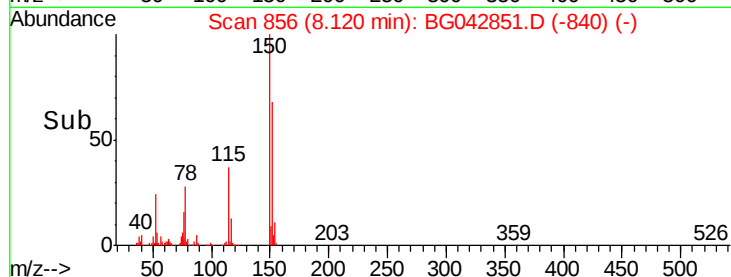
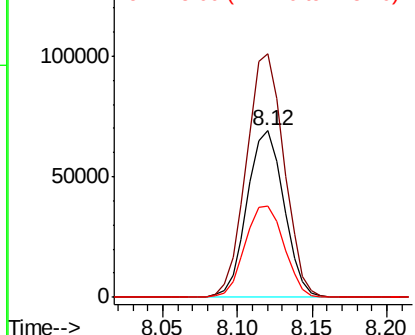
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.12 min Scan# 856  
Delta R.T. -0.01 min  
Lab File: BG042851.D  
Acq: 16 Sep 2019 16:38

Instrument :  
BNA\_G  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 146.3 | 118.9 | 178.3 |
| 115     | 54.8  | 47.4  | 71.2  |



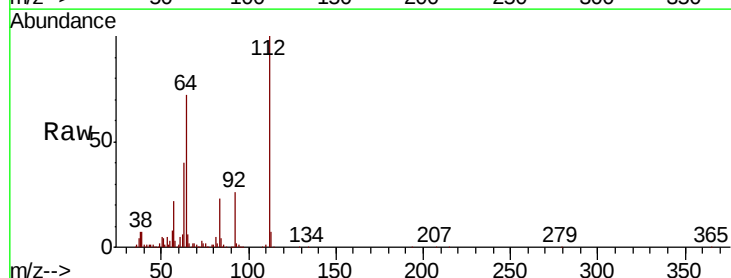
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



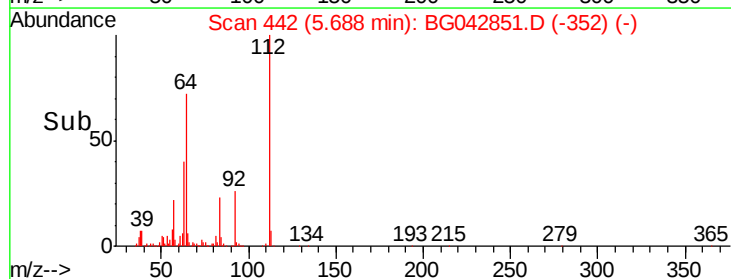
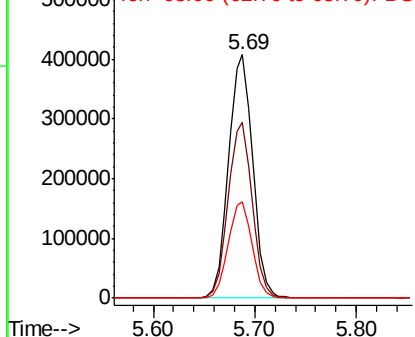
#5

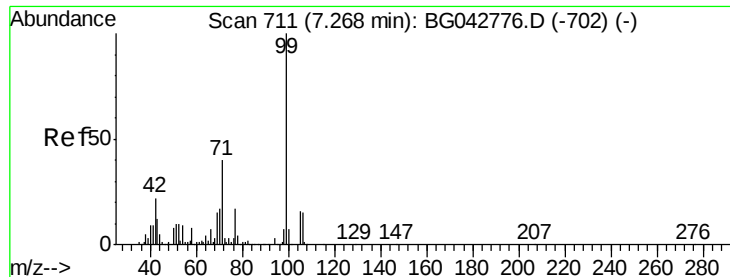
2-Fluorophenol  
Concen: 98.600 ng  
RT: 5.69 min Scan# 442  
Delta R.T. 0.00 min  
Lab File: BG042851.D  
Acq: 16 Sep 2019 16:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 72.3  | 60.2  | 90.2  |
| 63      | 39.9  | 31.2  | 46.8  |



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: 80.215 ng

RT: 7.27 min Scan# 711

Delta R.T. 0.00 min

Lab File: BG042851.D

Acq: 16 Sep 2019 16:38

Instrument :

BNA\_G

ClientSampleId :

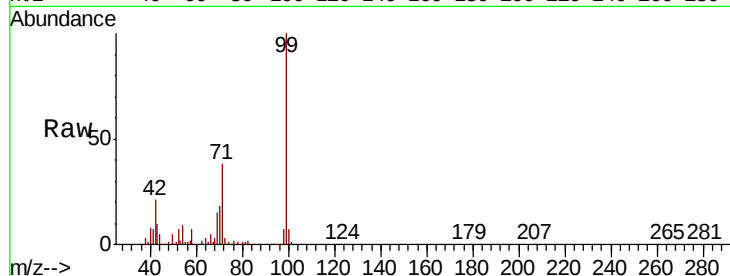
Tot Ion: 99 Resp: 783705

Ion Ratio Lower Upper

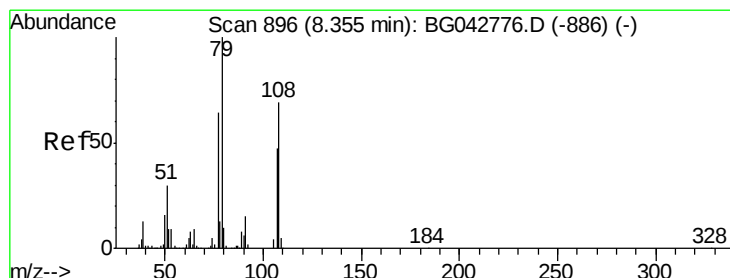
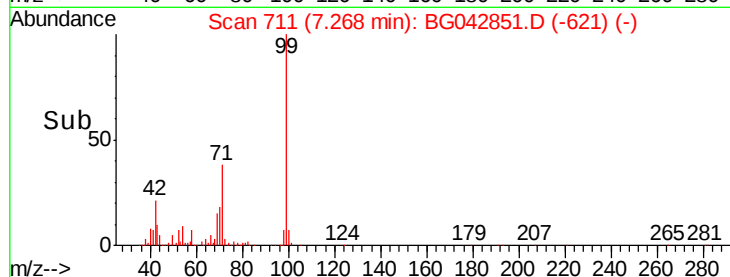
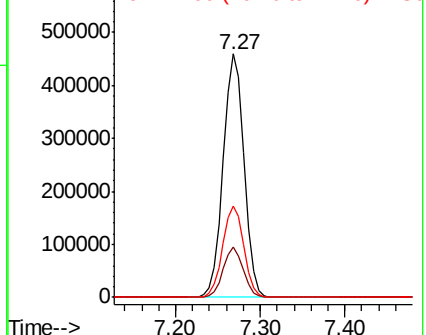
99 100

42 20.7 17.5 26.3

71 37.7 32.0 48.0



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



#15

Benzyl Alcohol

Concen: 2.003 ng

RT: 8.44 min Scan# 911

Delta R.T. 0.09 min

Lab File: BG042851.D

Acq: 16 Sep 2019 16:38

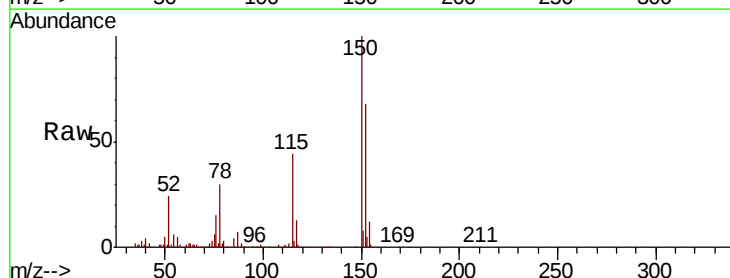
Tgt Ion: 79 Resp: 16797

Ion Ratio Lower Upper

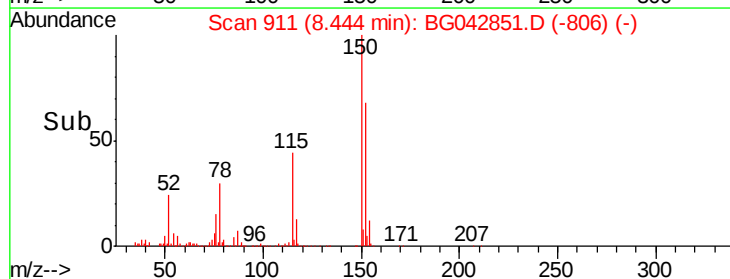
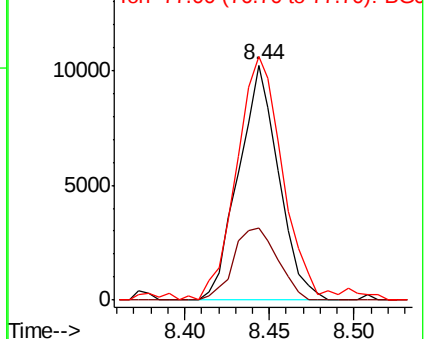
79 100

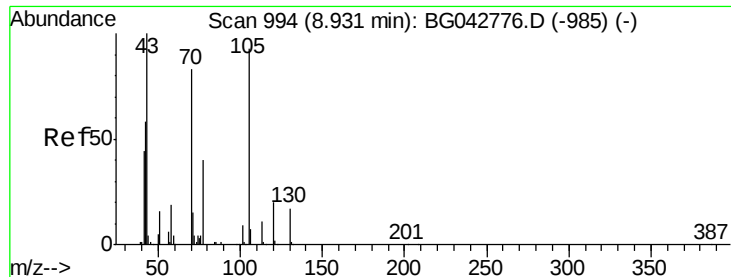
108 30.9 54.9 82.3#

77 103.8 51.0 76.6#



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

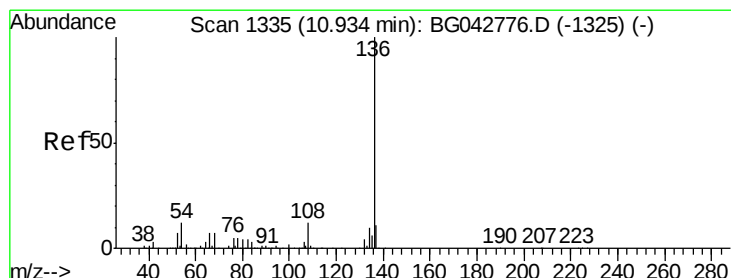
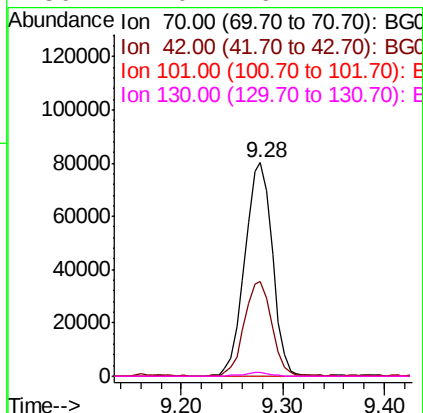
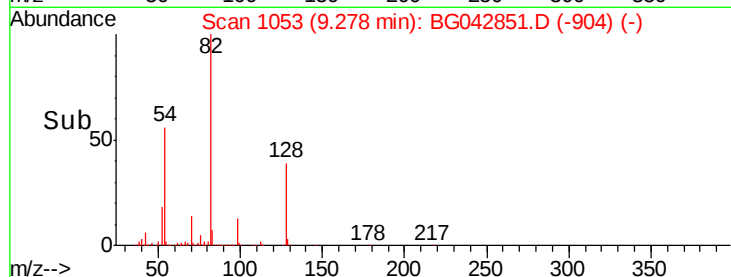
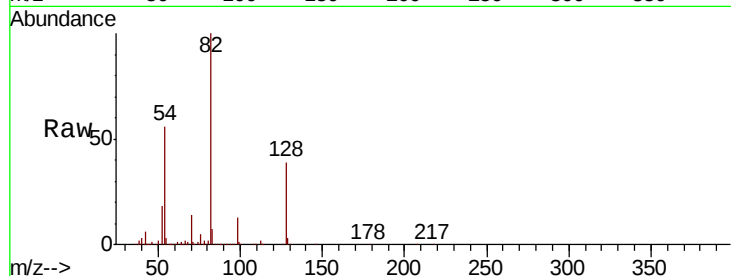




#19  
n-Nitroso-di-n-propylamine  
Concen: 21.054 ng  
RT: 9.28 min Scan# 1053  
Delta R.T. 0.35 min  
Lab File: BG042851.D  
Acq: 16 Sep 2019 16:38

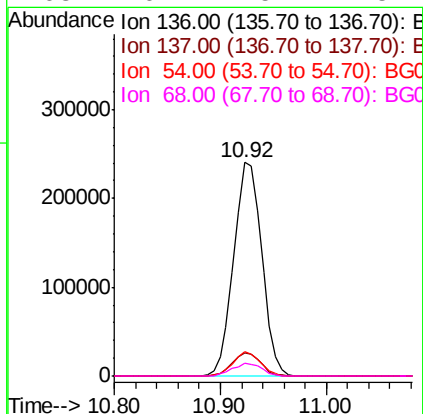
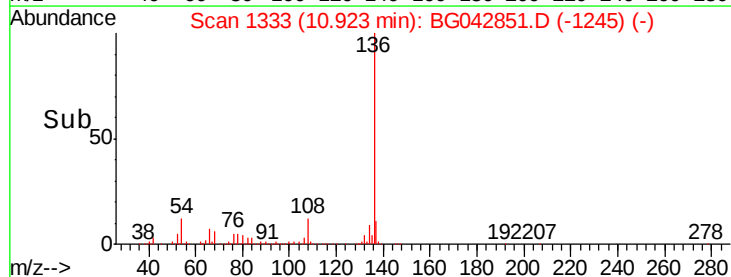
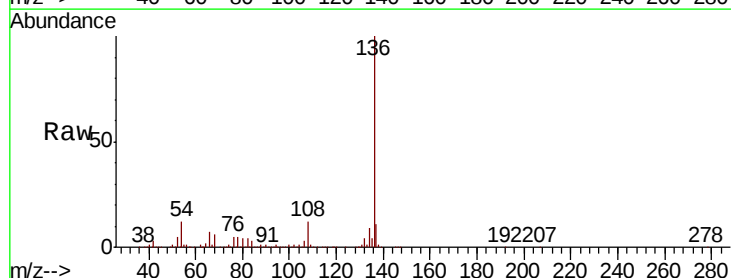
Instrument :  
BNA\_G  
ClientSampleId :

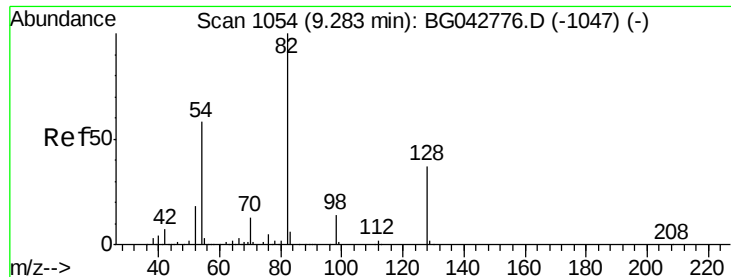
Tot Ion: 70 Resp: 151569  
Ion Ratio Lower Upper  
70 100  
42 44.2 57.0 85.6#  
101 0.0 8.4 12.6#  
130 2.0 16.1 24.1#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.92 min Scan# 1333  
Delta R.T. -0.01 min  
Lab File: BG042851.D  
Acq: 16 Sep 2019 16:38

Tgt Ion: 136 Resp: 442442  
Ion Ratio Lower Upper  
136 100  
137 10.5 9.0 13.6  
54 11.6 9.4 14.0  
68 6.1 5.4 8.2

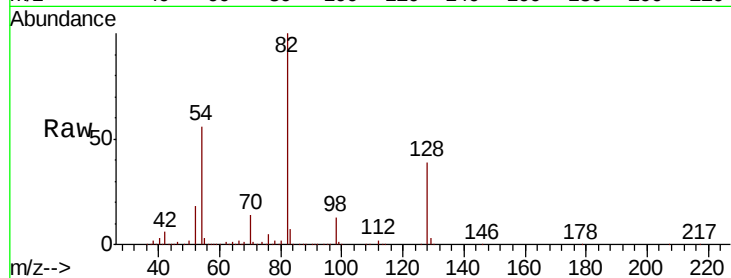




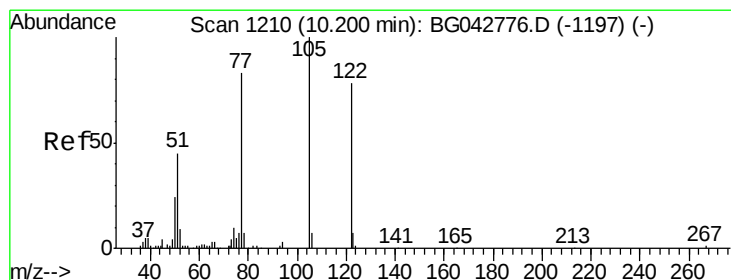
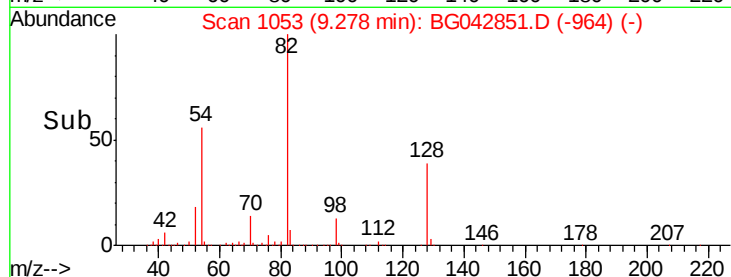
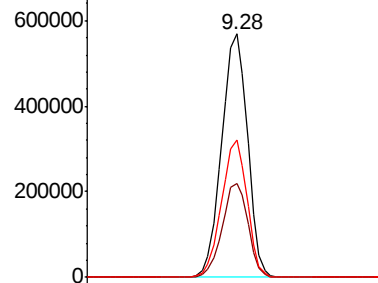
#23  
Nitrobenzene-d5  
Concen: 123.609 ng  
RT: 9.28 min Scan# 1053  
Delta R.T. -0.01 min  
Lab File: BG042851.D  
Acq: 16 Sep 2019 16:38

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion: 82 Resp: 1050463  
Ion Ratio Lower Upper  
82 100  
128 38.8 29.8 44.8  
54 56.3 46.1 69.1

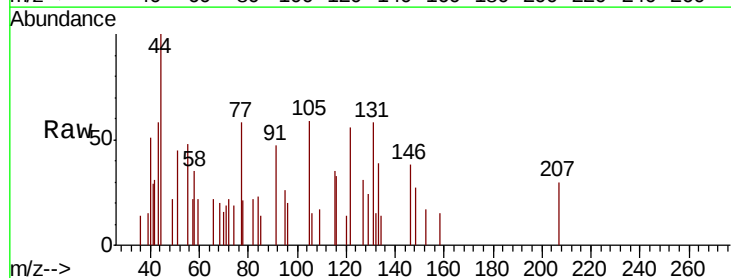


Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC

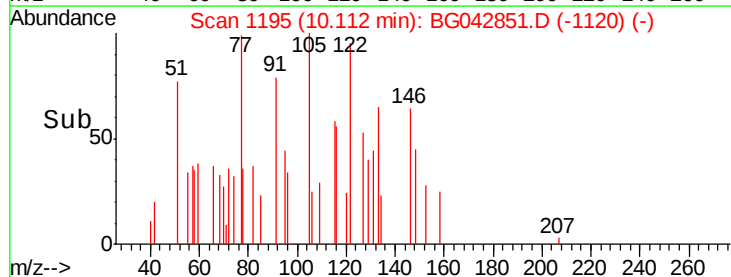
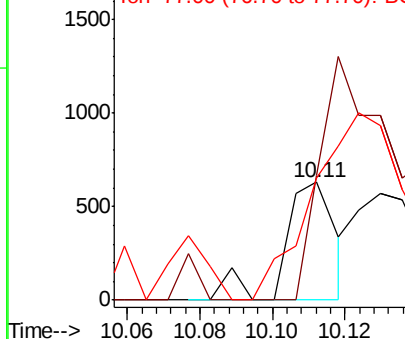


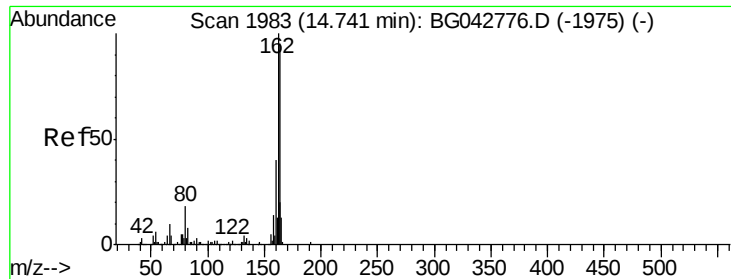
#32  
Benzoic acid  
Concen: 6.069 ng  
RT: 10.11 min Scan# 1195  
Delta R.T. -0.09 min  
Lab File: BG042851.D  
Acq: 16 Sep 2019 16:38

Tgt Ion: 122 Resp: 602  
Ion Ratio Lower Upper  
122 100  
105 105.7 104.0 144.0  
77 104.3 84.2 124.2



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





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.74 min Scan# 1982

Delta R.T. -0.01 min

Lab File: BG042851.D

Acq: 16 Sep 2019 16:38

Instrument :

BNA\_G

ClientSampleId :

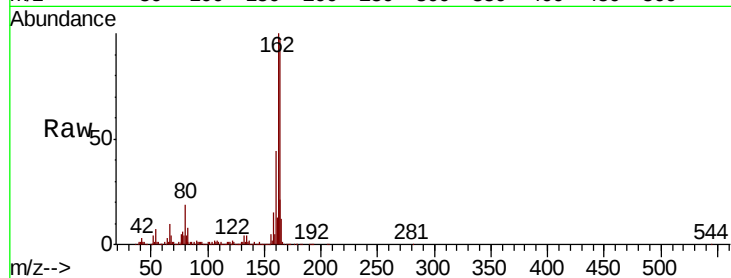
Tot Ion:164 Resp: 291796

Ion Ratio Lower Upper

164 100

162 102.8 84.6 126.8

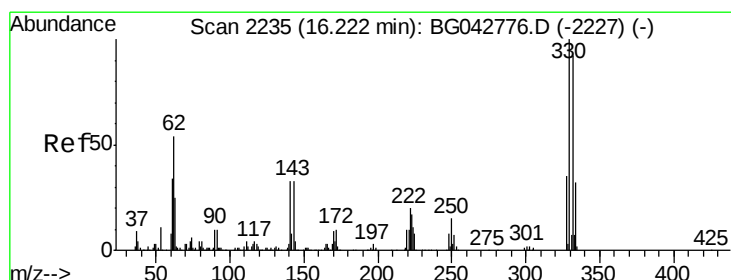
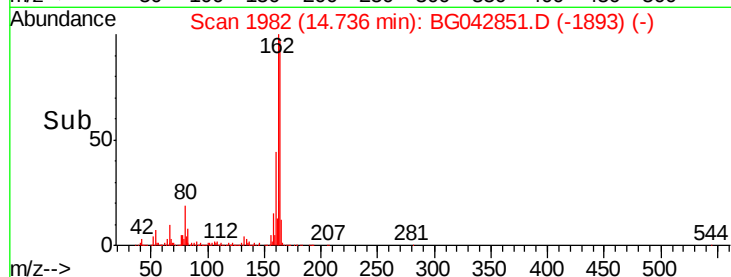
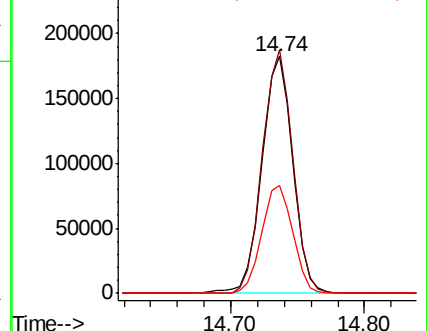
160 45.3 34.2 51.2



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: 182.982 ng

RT: 16.22 min Scan# 2235

Delta R.T. 0.00 min

Lab File: BG042851.D

Acq: 16 Sep 2019 16:38

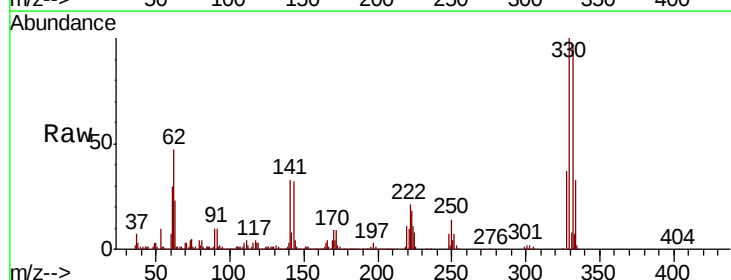
Tgt Ion:330 Resp: 710357

Ion Ratio Lower Upper

330 100

332 95.5 76.7 115.1

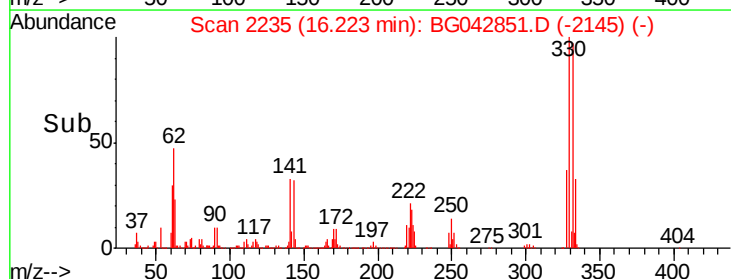
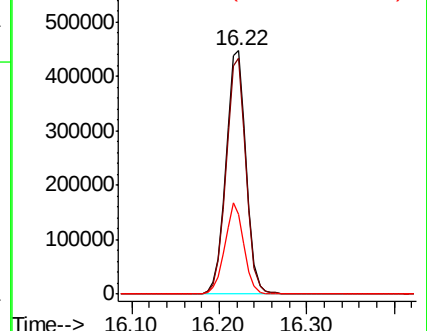
141 35.4 27.0 40.6

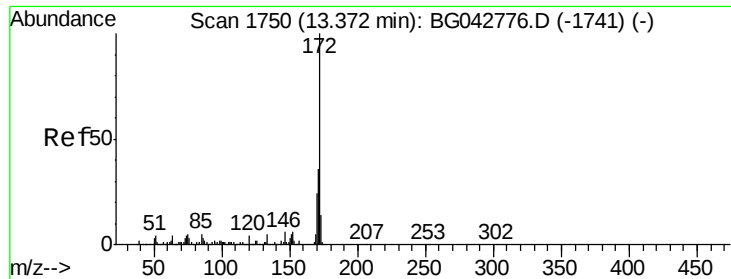


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

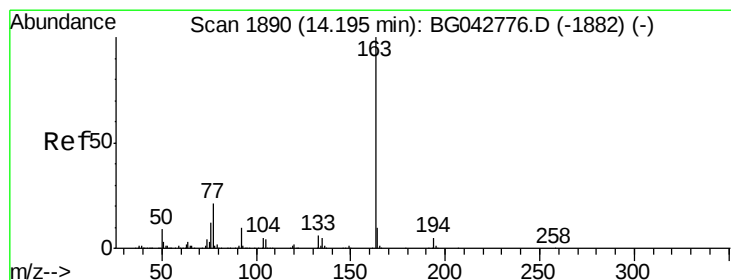
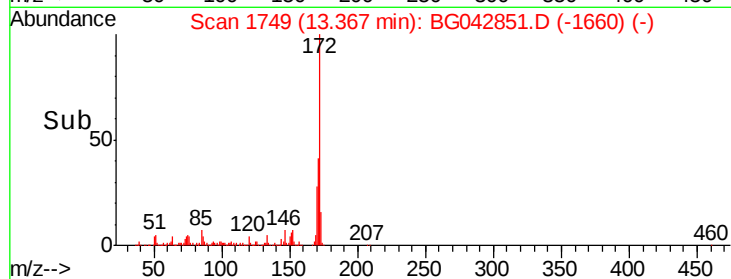
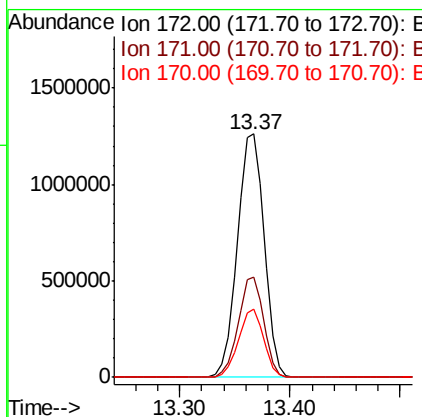
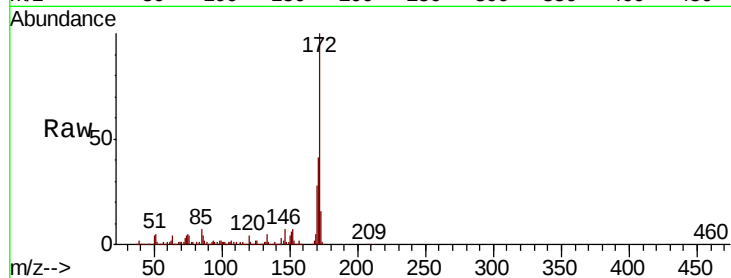




#45  
2-Fluorobiphenyl  
Concen: 116.874 ng  
RT: 13.37 min Scan# 1749  
Delta R.T. -0.01 min  
Lab File: BG042851.D  
Acq: 16 Sep 2019 16:38

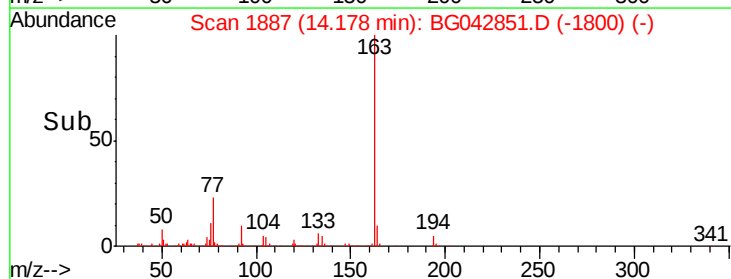
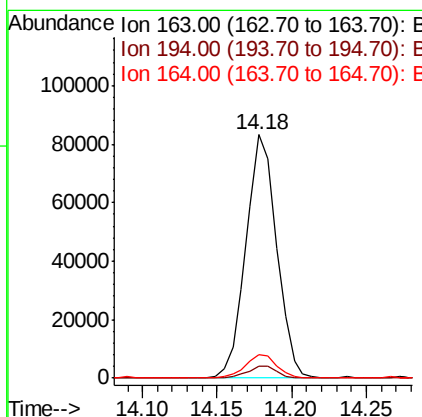
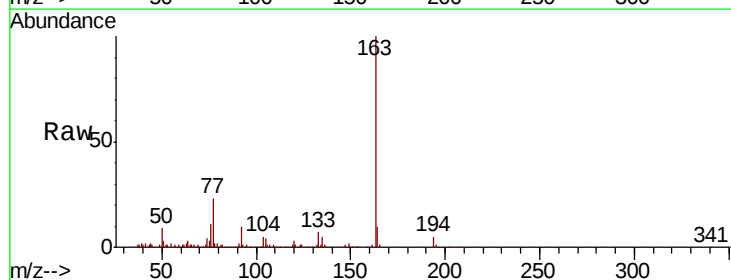
Instrument :  
BNA\_G  
ClientSampleId :

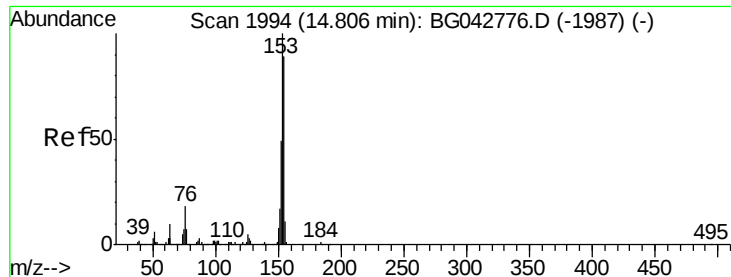
Tot Ion:172 Resp: 2154448  
Ion Ratio Lower Upper  
172 100  
171 41.3 28.9 43.3  
170 27.9 19.1 28.7



#50  
Dimethylphthalate  
Concen: 5.416 ng  
RT: 14.18 min Scan# 1887  
Delta R.T. -0.02 min  
Lab File: BG042851.D  
Acq: 16 Sep 2019 16:38

Tgt Ion:163 Resp: 118386  
Ion Ratio Lower Upper  
163 100  
194 4.7 4.2 6.4  
164 9.8 8.4 12.6





#52

Acenaphthene

Concen: 4.971 ng

RT: 14.79 min Scan# 1992

Delta R.T. -0.01 min

Lab File: BG042851.D

Acq: 16 Sep 2019 16:38

Instrument :

BNA\_G

ClientSampleId :

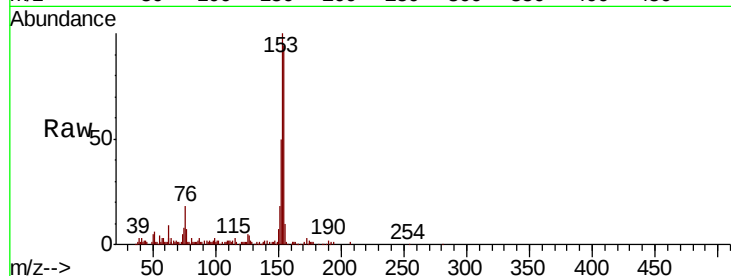
Tot Ion:154 Resp: 83868

Ion Ratio Lower Upper

154 100

153 106.1 89.4 134.2

152 52.9 43.5 65.3

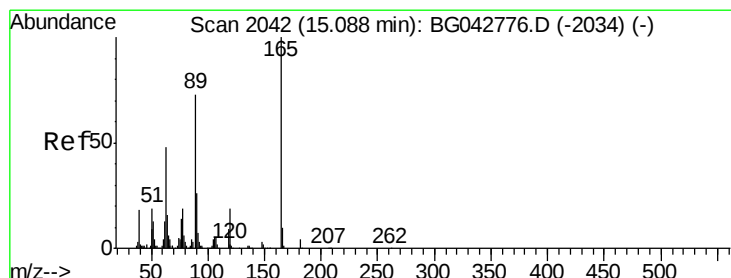
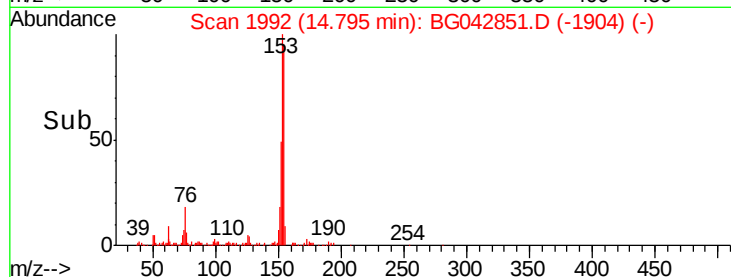
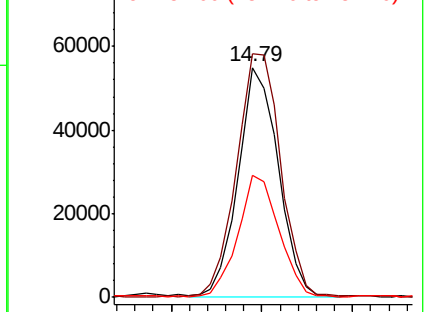


Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#57

2,4-Dinitrotoluene

Concen: 6.729 ng

RT: 14.74 min Scan# 1982

Delta R.T. -0.35 min

Lab File: BG042851.D

Acq: 16 Sep 2019 16:38

Tgt Ion:165 Resp: 40230

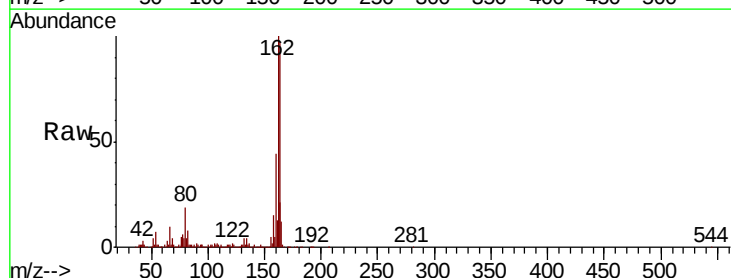
Ion Ratio Lower Upper

165 100

63 2.9 38.3 57.5#

89 3.3 58.4 87.6#

182 1.8 2.9 4.3#



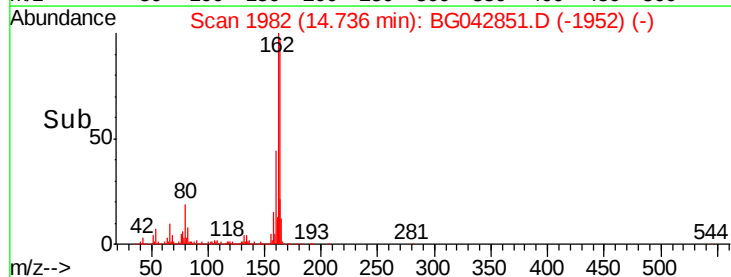
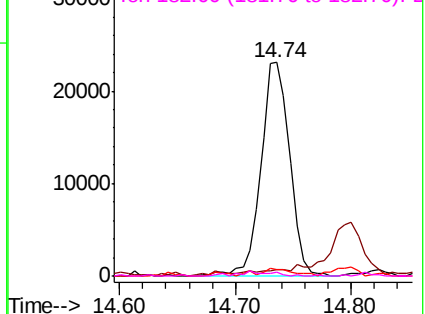
Abundance

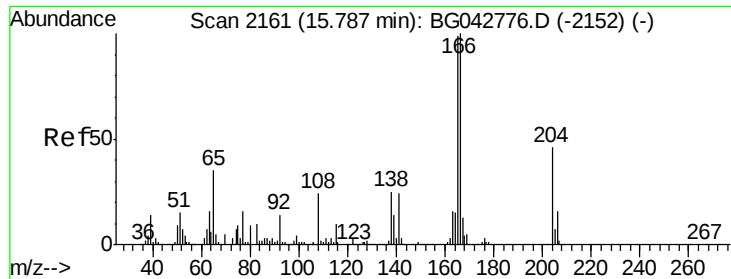
Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E

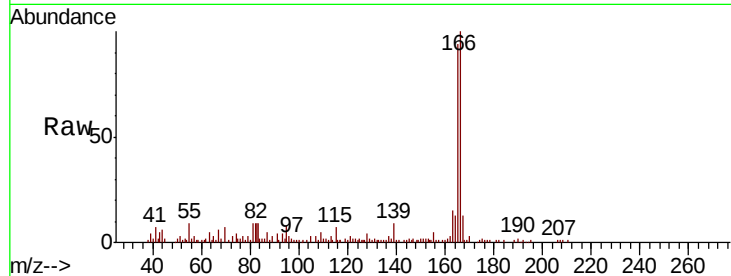




#58  
 Fluorene  
 Concen: 2.779 ng  
 RT: 15.78 min Scan# 2160  
 Delta R.T. -0.01 min  
 Lab File: BG042851.D  
 Acq: 16 Sep 2019 16:38

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 93.8  | 79.1  | 118.7 |
| 167     | 12.6  | 10.7  | 16.1  |

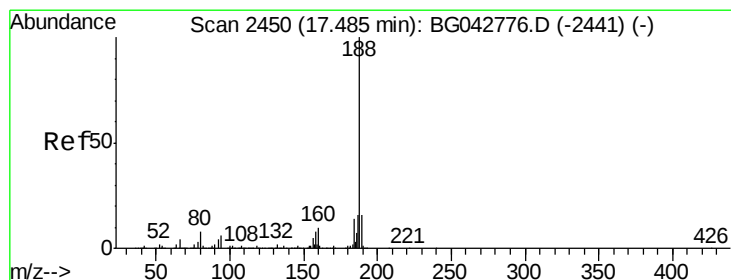
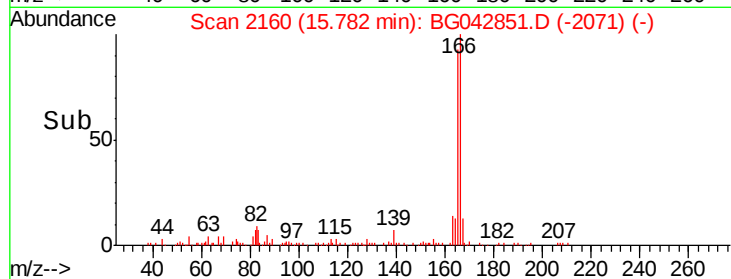
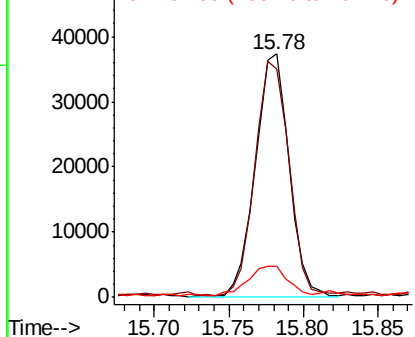


Abundance

Ion 166.00 (165.70 to 166.70): E

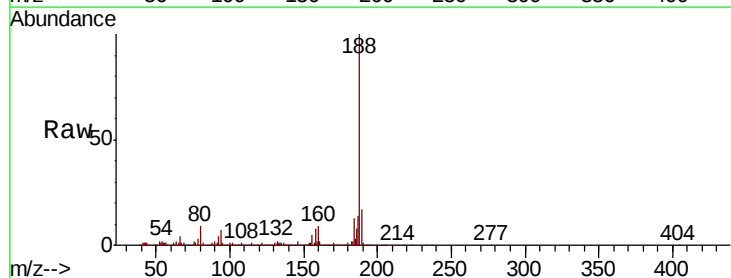
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.47 min Scan# 2448  
 Delta R.T. -0.01 min  
 Lab File: BG042851.D  
 Acq: 16 Sep 2019 16:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 6.7   | 4.8   | 7.2   |
| 80      | 9.3   | 6.6   | 9.8   |

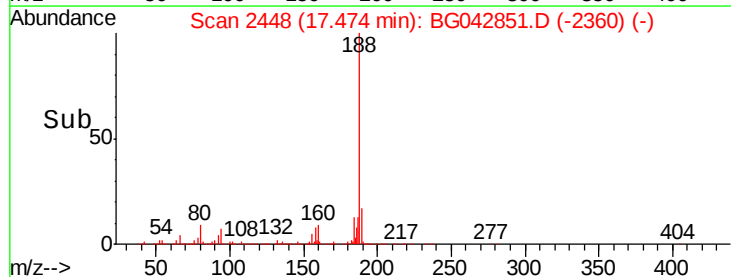
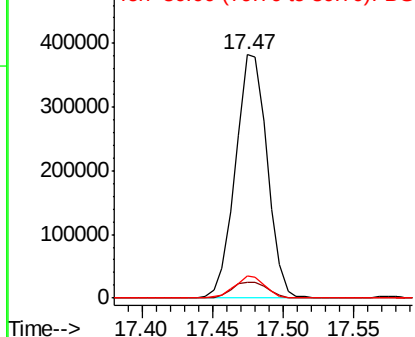


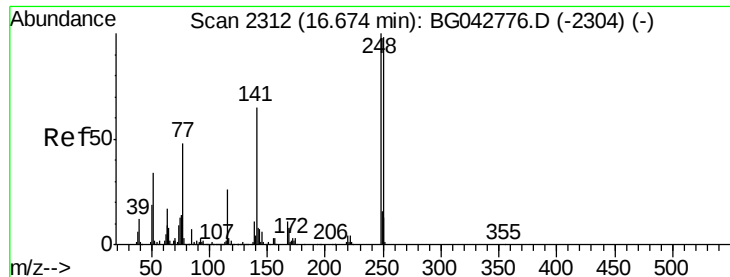
Abundance

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





#67

4-Bromophenyl-phenylether

Concen: 6.900 ng

RT: 16.22 min Scan# 2234

Delta R.T. -0.46 min

Lab File: BG042851.D

Acq: 16 Sep 2019 16:38

Instrument :

BNA\_G

ClientSampleId :

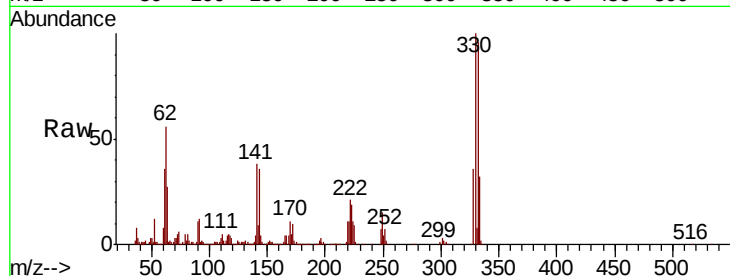
Tot Ion:248 Resp: 50210

Ion Ratio Lower Upper

248 100

250 197.7 78.0 117.0#

141 514.2 51.8 77.6#

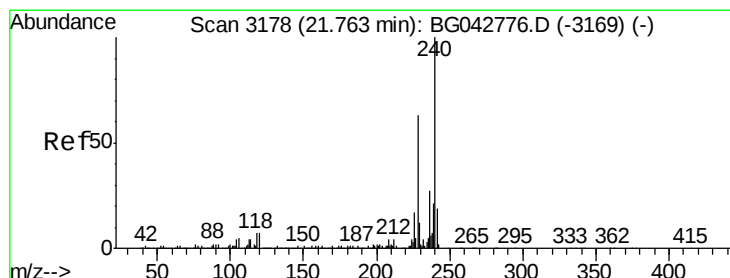
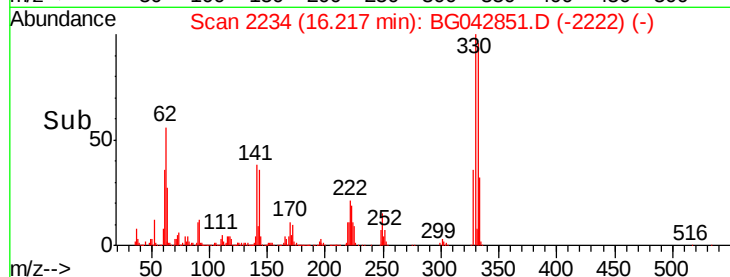
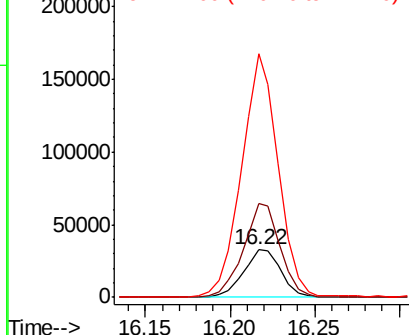


Abundance

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



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.76 min Scan# 3177

Delta R.T. -0.01 min

Lab File: BG042851.D

Acq: 16 Sep 2019 16:38

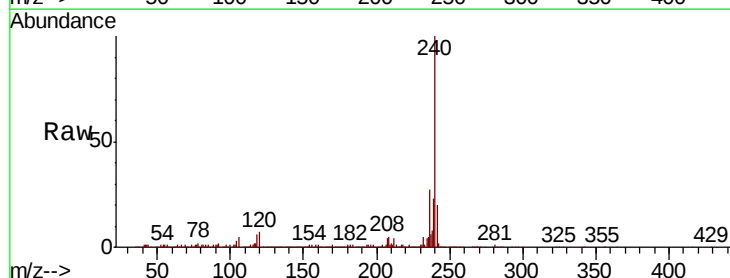
Tgt Ion:240 Resp: 597303

Ion Ratio Lower Upper

240 100

120 6.9 5.4 8.2

236 26.7 21.7 32.5

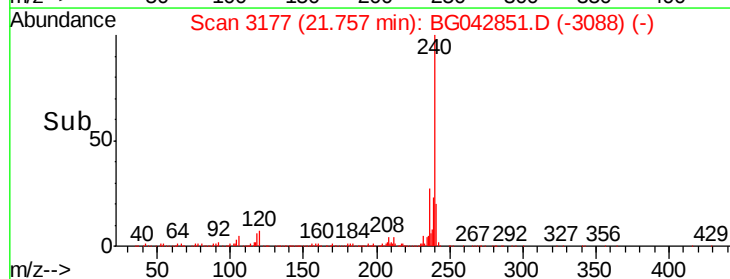
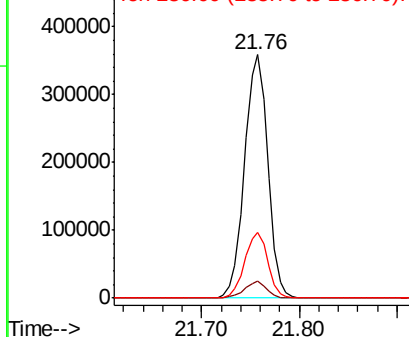


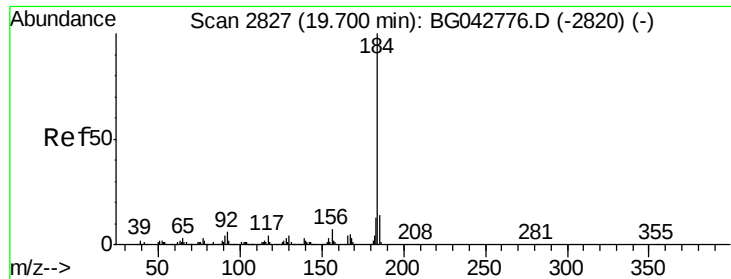
Abundance

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





#77

Benzidine

Concen: 3.642 ng

RT: 20.09 min Scan# 2893

Delta R.T. 0.39 min

Lab File: BG042851.D

Acq: 16 Sep 2019 16:38

Instrument :

BNA\_G

ClientSampleId :

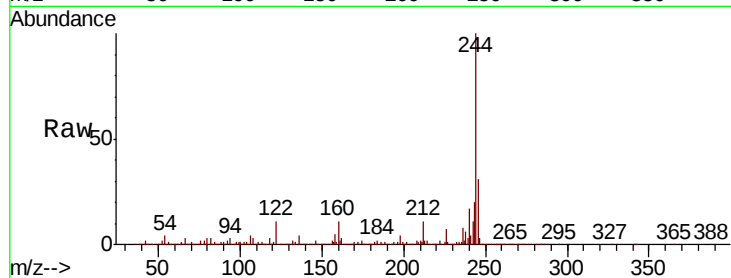
Tot Ion:184 Resp: 60784

Ion Ratio Lower Upper

184 100

185 18.6 11.6 17.4#

183 11.7 10.4 15.6

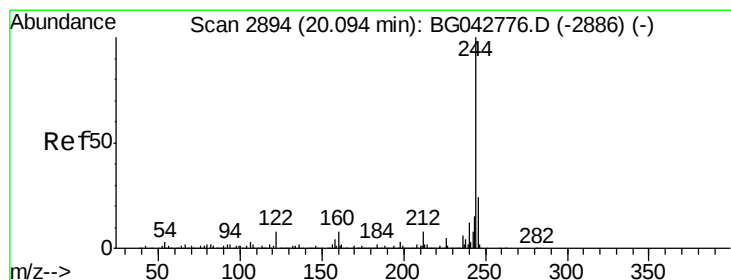
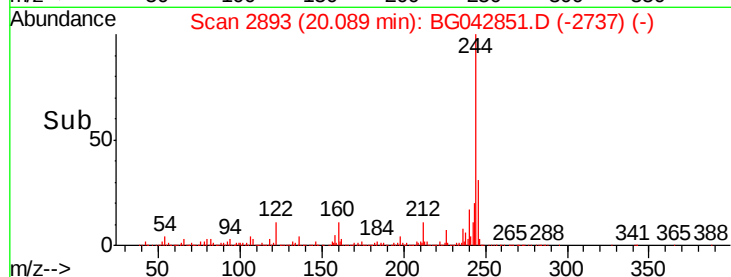
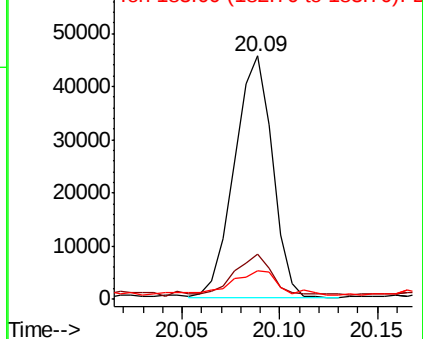


Abundance

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: 109.700 ng

RT: 20.09 min Scan# 2893

Delta R.T. -0.01 min

Lab File: BG042851.D

Acq: 16 Sep 2019 16:38

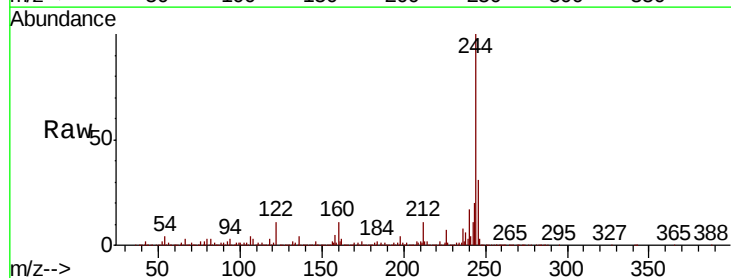
Tgt Ion:244 Resp: 2956488

Ion Ratio Lower Upper

244 100

212 11.4 6.6 10.0#

122 11.1 6.2 9.4#

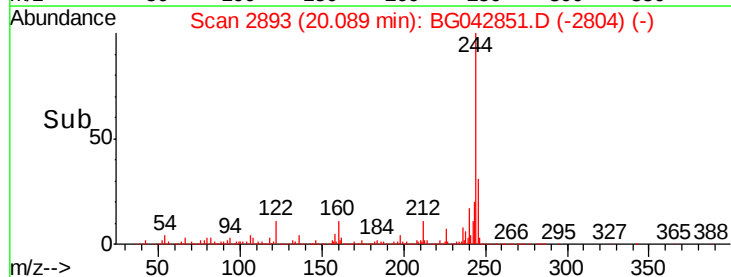
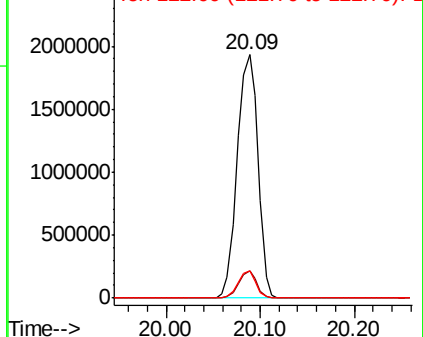


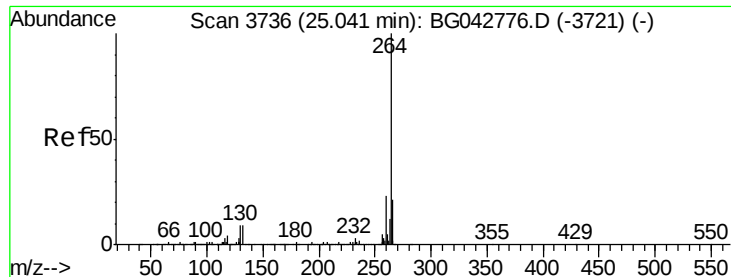
Abundance

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: 25.02 min Scan# 3733  
Delta R.T. -0.02 min  
Lab File: BG042851.D  
Acq: 16 Sep 2019 16:38

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.3  | 18.2  | 27.2  |
| 265     | 21.5  | 16.9  | 25.3  |

