

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111119\  
 Data File : BG043596.D  
 Acq On : 11 Nov 2019 23:12  
 Operator : JU  
 Sample : K5758-01  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CO-1008

Quant Time: Nov 12 00:49:56 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG102119.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 04 15:22:15 2019  
 Response via : Initial Calibration

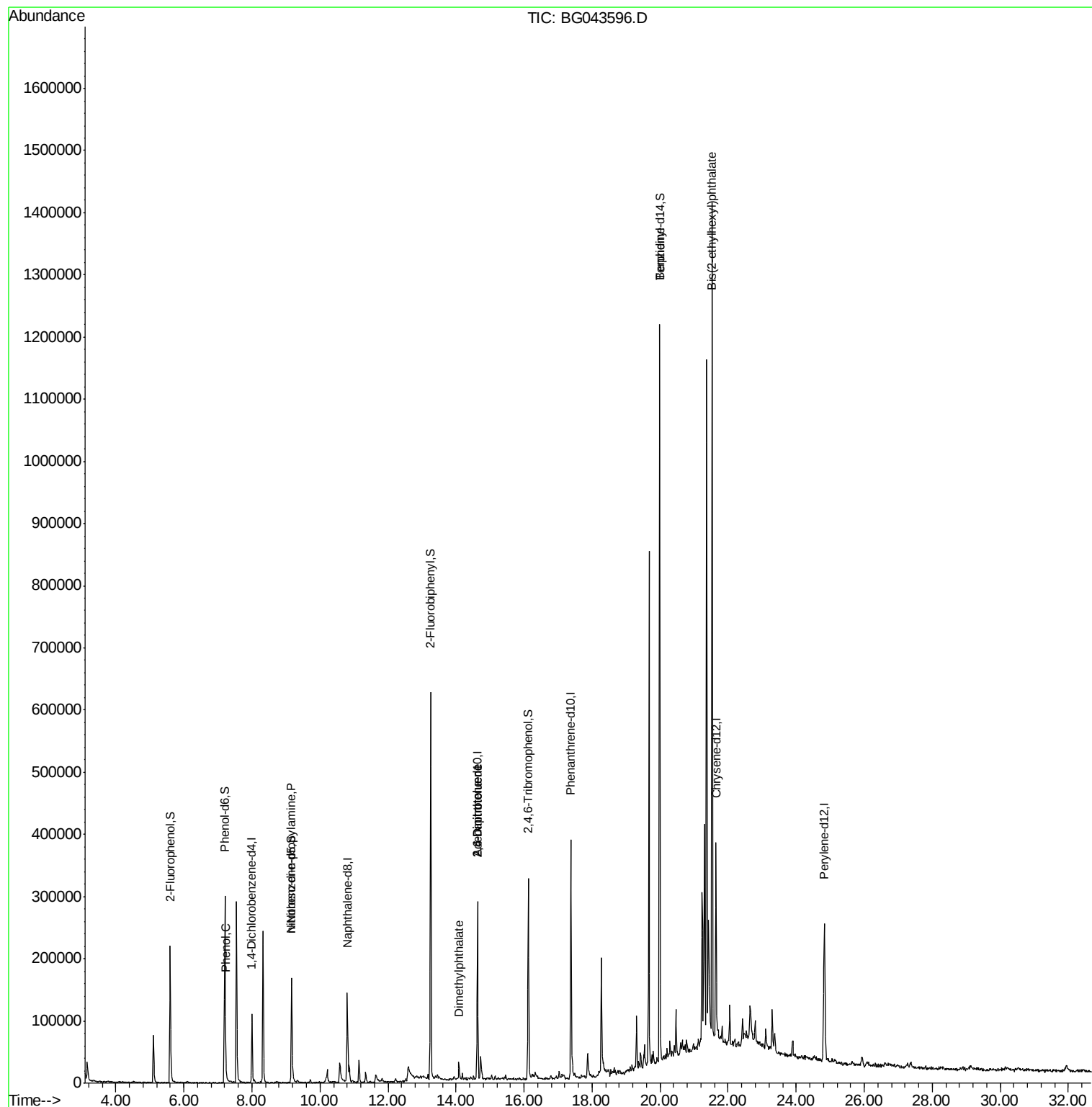
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.00  | 152  | 33729    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.80 | 136  | 139900   | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10           | 14.63 | 164  | 105403   | 20.00  | ng    | -0.01    |
| 64) Phenanthrene-d10           | 17.38 | 188  | 259017   | 20.00  | ng    | -0.01    |
| 76) Chrysene-d12               | 21.64 | 240  | 202390   | 20.00  | ng    | -0.01    |
| 87) Perylene-d12               | 24.82 | 264  | 240956   | 20.00  | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.60  | 112  | 115835   | 62.93  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.20  | 99   | 199900   | 75.48  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.16  | 82   | 119860   | 44.17  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 16.12 | 330  | 77549    | 38.66  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 13.25 | 172  | 347913   | 45.61  | ng    | -0.01    |
| 79) Terphenyl-d14              | 19.99 | 244  | 619170   | 57.39  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 7.23  | 94   | 7466     | 3.085  | ng    | 80       |
| 19) n-Nitroso-di-n-propylamine | 9.16  | 70   | 16696    | 9.757  | ng    | # 78     |
| 50) Dimethylphthalate          | 14.08 | 163  | 18614    | 2.280  | ng    | # 97     |
| 51) 2,6-Dinitrotoluene         | 14.63 | 165  | 14775    | 8.330  | ng    | # 27     |
| 57) 2,4-Dinitrotoluene         | 14.63 | 165  | 14775    | 5.829  | ng    | # 30     |
| 77) Benzidine                  | 19.99 | 184  | 9034     | 2.218  | ng    | # 78     |
| 84) Bis(2-ethylhexyl)phthalate | 21.53 | 149  | 538735   | 79.906 | ng    | 98       |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111119\  
Data File : BG043596.D  
Acq On : 11 Nov 2019 23:12  
Operator : JU  
Sample : K5758-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
CO-1008

Quant Time: Nov 12 00:49:56 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG102119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Nov 04 15:22:15 2019  
Response via : Initial Calibration



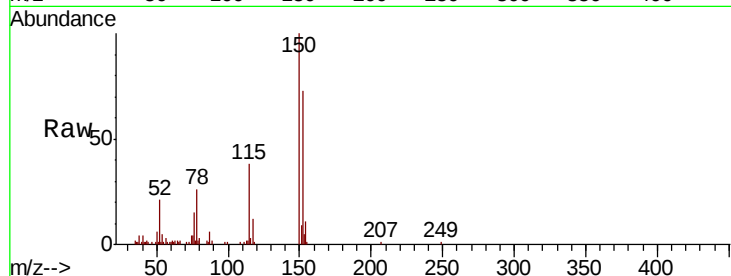


#1

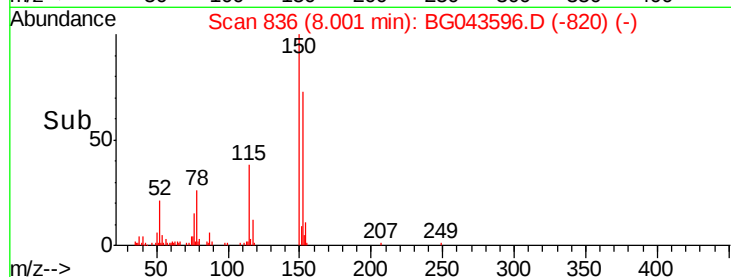
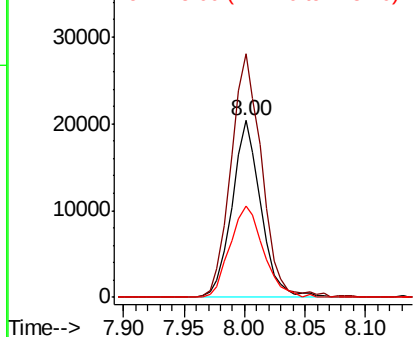
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.00 min Scan# 836  
Delta R.T. -0.01 min  
Lab File: BG043596.D  
Acq: 11 Nov 2019 23:12

Instrument :  
BNA\_G  
ClientSampleId :  
CO-1008

Tot Ion:152 Resp: 33729  
Ion Ratio Lower Upper  
152 100  
150 137.7 129.4 194.0  
115 51.9 48.8 73.2



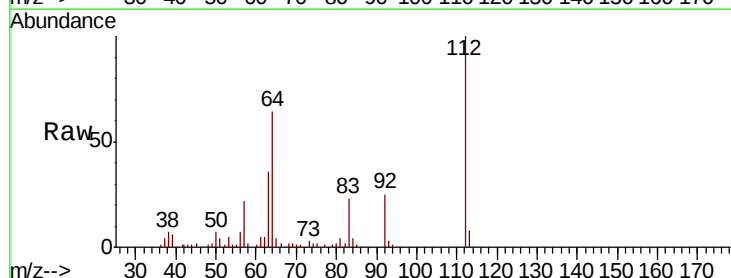
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



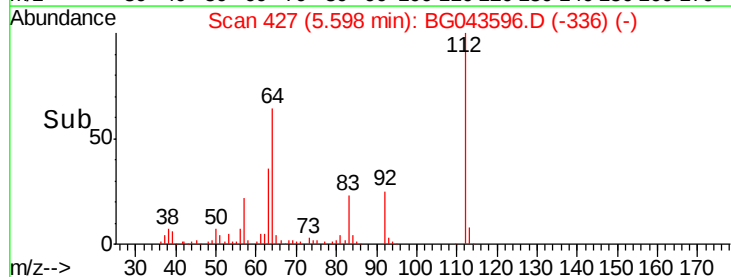
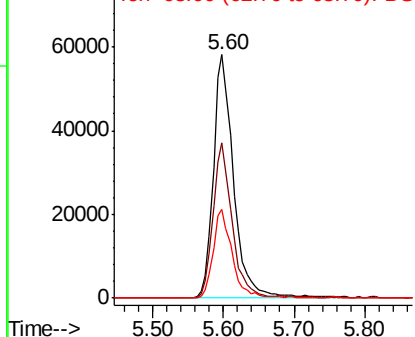
#5

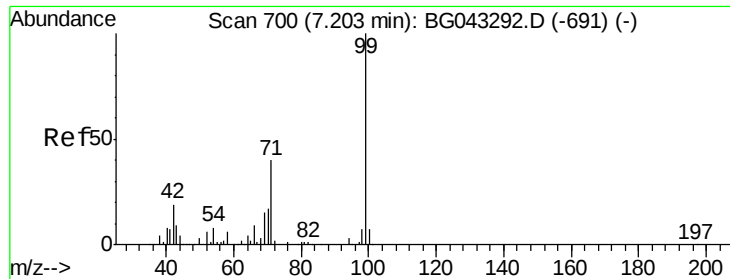
2-Fluorophenol  
Concen: 62.931 ng  
RT: 5.60 min Scan# 427  
Delta R.T. 0.01 min  
Lab File: BG043596.D  
Acq: 11 Nov 2019 23:12

Tgt Ion:112 Resp: 115835  
Ion Ratio Lower Upper  
112 100  
64 63.8 50.0 75.0  
63 36.4 26.6 40.0



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: 75.483 ng

RT: 7.20 min Scan# 700

Delta R.T. 0.01 min

Lab File: BG043596.D

Acq: 11 Nov 2019 23:12

Instrument :

BNA\_G

ClientSampleId :

CO-1008

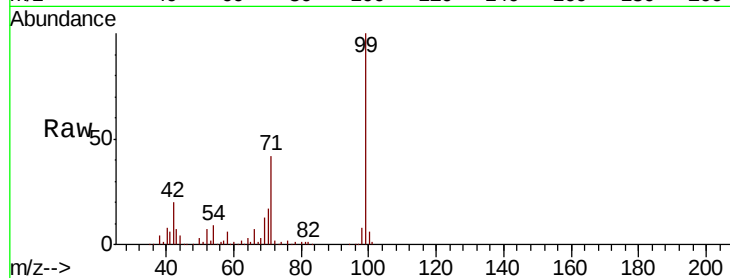
Tot Ion: 99 Resp: 199900

Ion Ratio Lower Upper

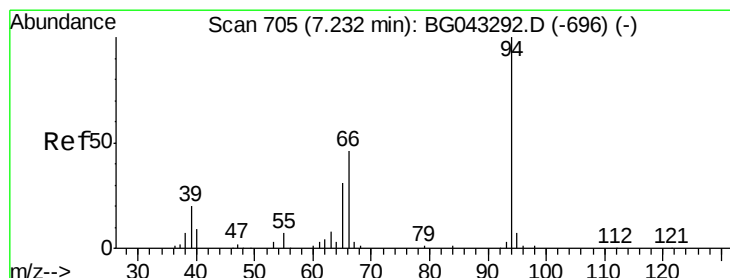
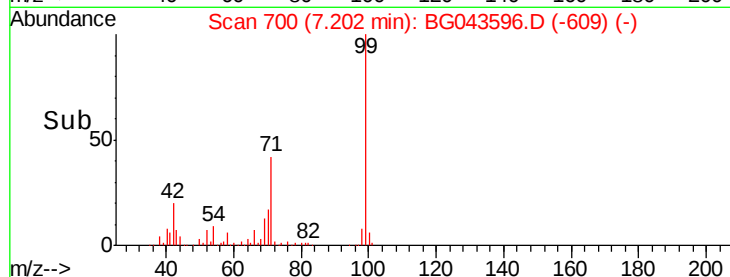
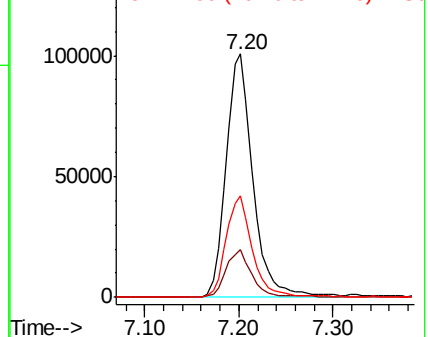
99 100

42 19.8 14.6 21.8

71 41.9 32.5 48.7



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: 3.085 ng

RT: 7.23 min Scan# 704

Delta R.T. 0.01 min

Lab File: BG043596.D

Acq: 11 Nov 2019 23:12

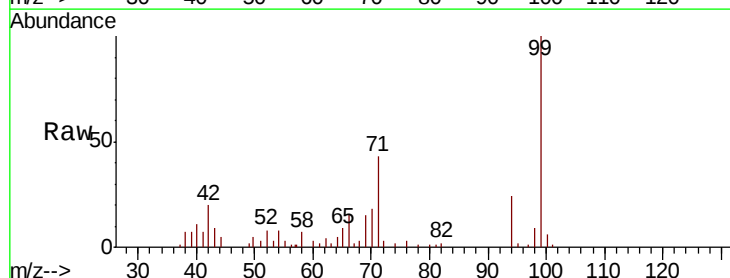
Tgt Ion: 94 Resp: 7466

Ion Ratio Lower Upper

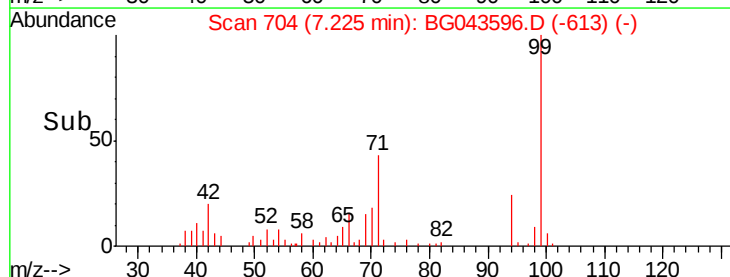
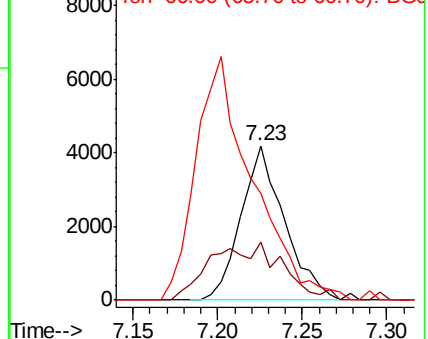
94 100

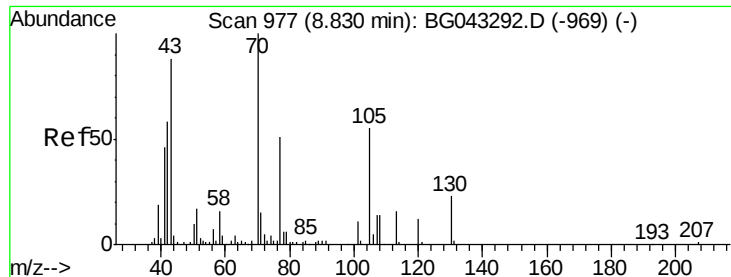
65 37.7 12.6 52.6

66 69.6 30.7 70.7



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





#19

n-Nitroso-di-n-propylamine

Concen: 9.757 ng

RT: 9.16 min Scan# 1034

Delta R.T. 0.35 min

Lab File: BG043596.D

Acq: 11 Nov 2019 23:12

Instrument :

BNA\_G

ClientSampleId :

CO-1008

Tot Ion: 70 Resp: 16696

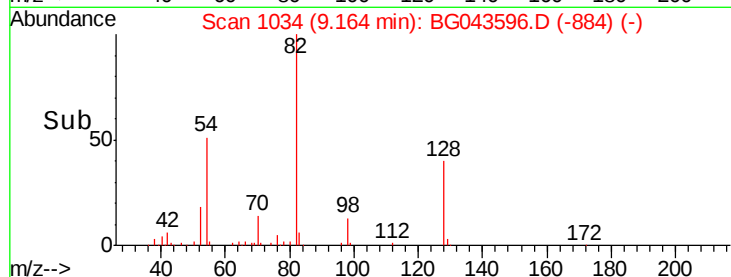
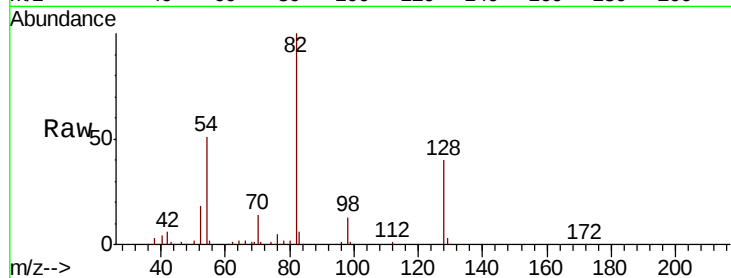
Ion Ratio Lower Upper

70 100

42 43.8 41.4 62.2

101 0.0 7.9 11.9#

130 3.1 19.0 28.4#

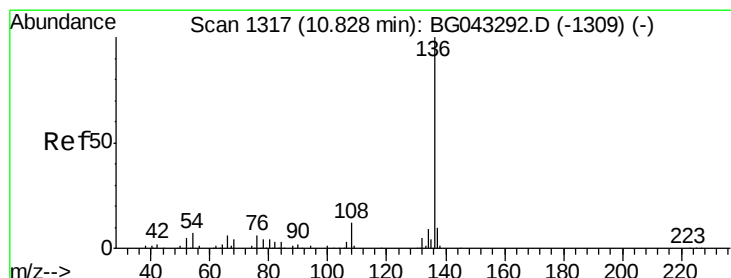
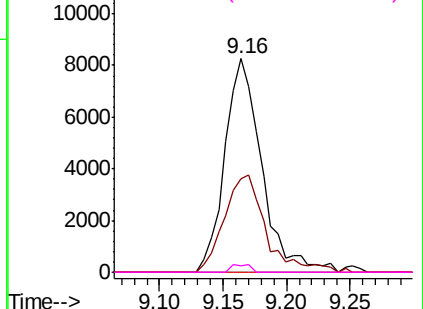


Abundance Ion 70.00 (69.70 to 70.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 101.00 (100.70 to 101.70): 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. -0.01 min

Lab File: BG043596.D

Acq: 11 Nov 2019 23:12

Tgt Ion: 136 Resp: 139900

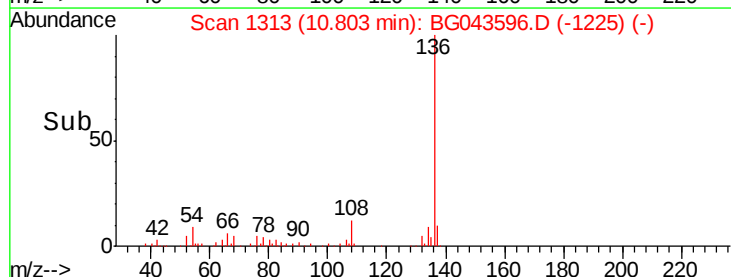
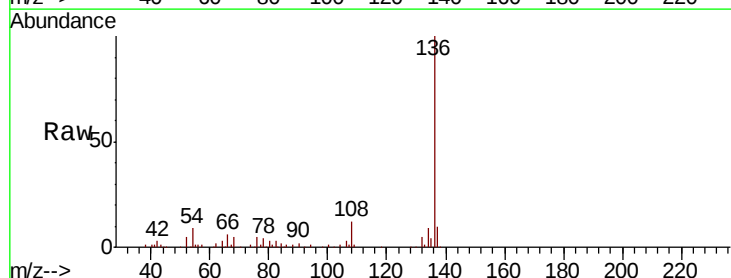
Ion Ratio Lower Upper

136 100

137 10.0 8.7 13.1

54 8.5 5.4 8.2#

68 4.6 3.0 4.4#

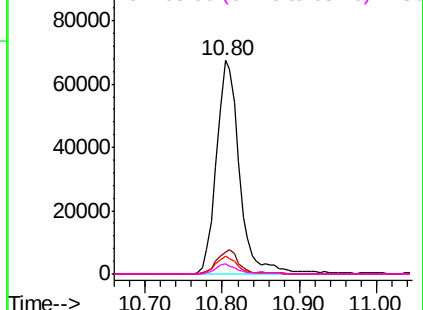


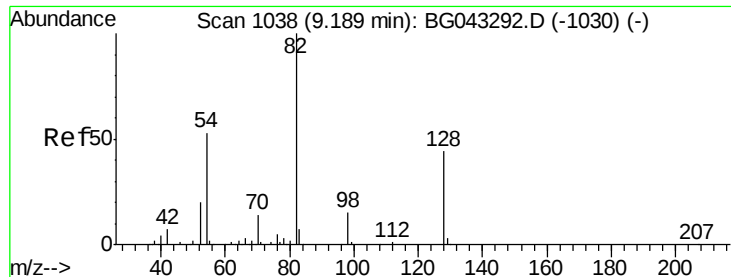
Abundance Ion 136.00 (135.70 to 136.70): BGC

Ion 137.00 (136.70 to 137.70): BGC

Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC

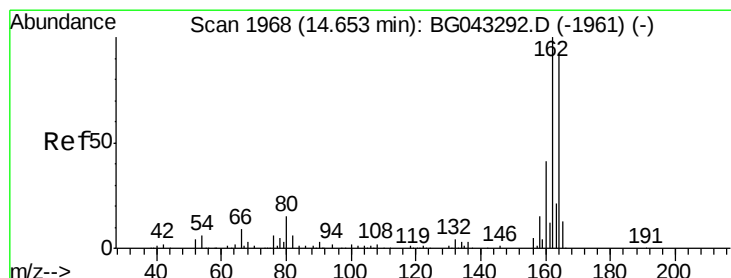
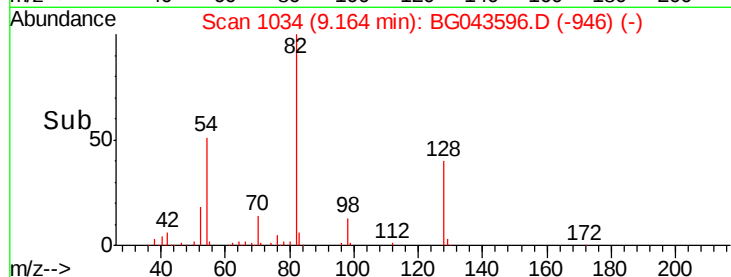
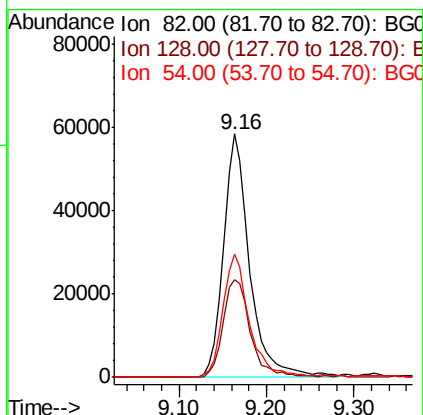
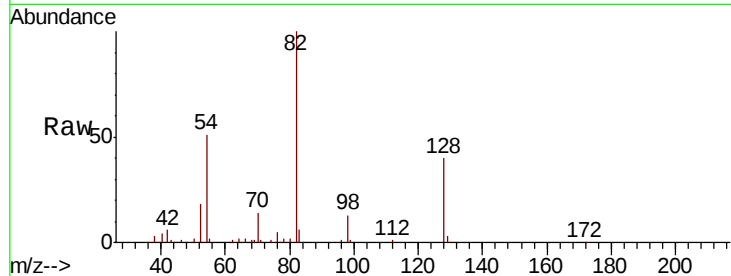




#23  
 Nitrobenzene-d5  
 Concen: 44.170 ng  
 RT: 9.16 min Scan# 1034  
 Delta R.T. -0.01 min  
 Lab File: BG043596.D  
 Acq: 11 Nov 2019 23:12

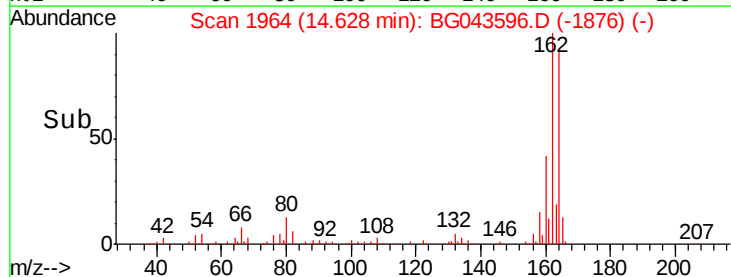
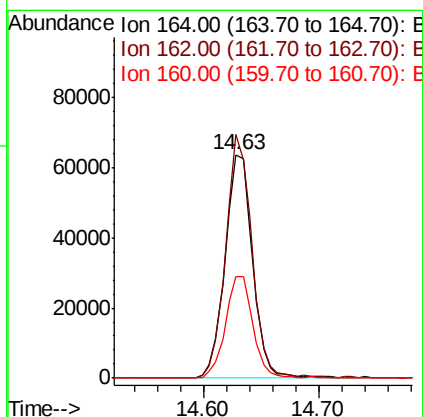
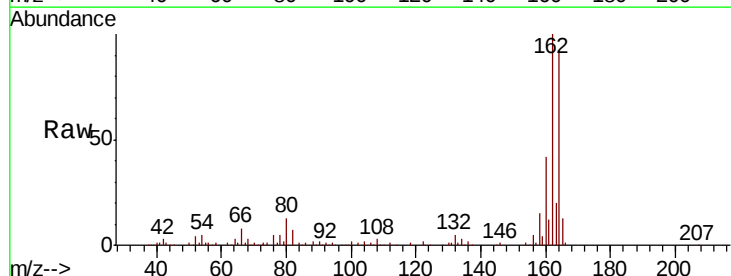
Instrument :  
 BNA\_G  
 ClientSampled :  
 CO-1008

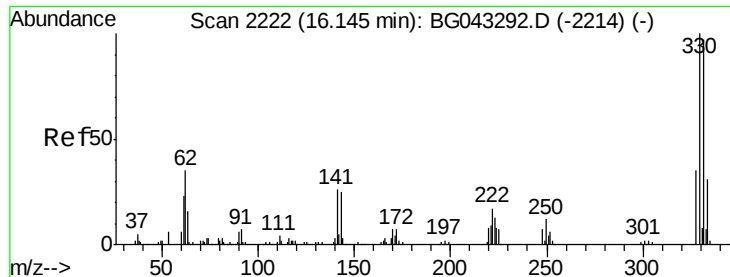
| Tot Ion   | 82    | Resp  | 119860 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 40.2  | 35.0  | 52.6   |
| 54        | 50.8  | 40.2  | 60.2   |



#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.63 min Scan# 1964  
 Delta R.T. -0.01 min  
 Lab File: BG043596.D  
 Acq: 11 Nov 2019 23:12

| Tgt Ion   | 164   | Resp  | 105403 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 109.0 | 83.5  | 125.3  |
| 160       | 45.6  | 36.5  | 54.7   |

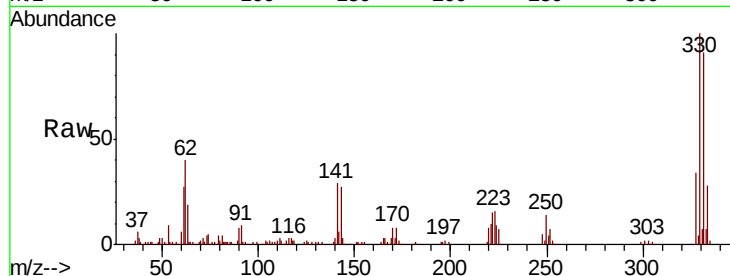




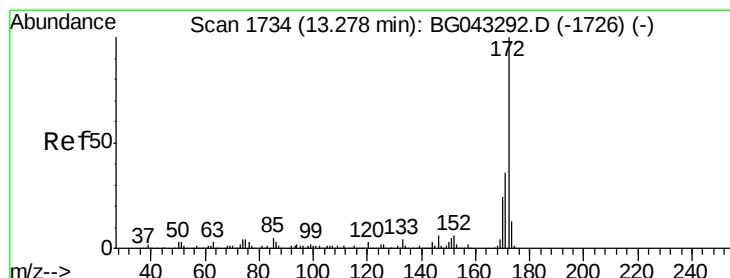
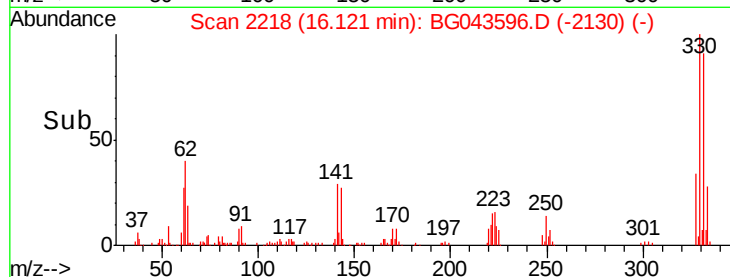
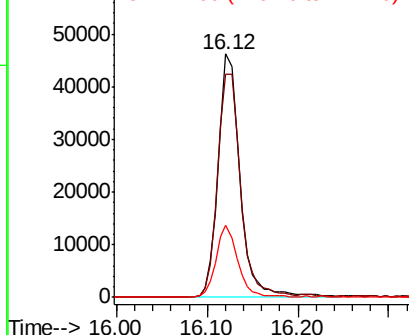
#42  
 2,4,6-Tribromophenol  
 Concen: 38.662 ng  
 RT: 16.12 min Scan# 2218  
 Delta R.T. -0.01 min  
 Lab File: BG043596.D  
 Acq: 11 Nov 2019 23:12

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CO-1008

Tot Ion:330 Resp: 77549  
 Ion Ratio Lower Upper  
 330 100  
 332 95.8 77.4 116.0  
 141 29.4 22.8 34.2

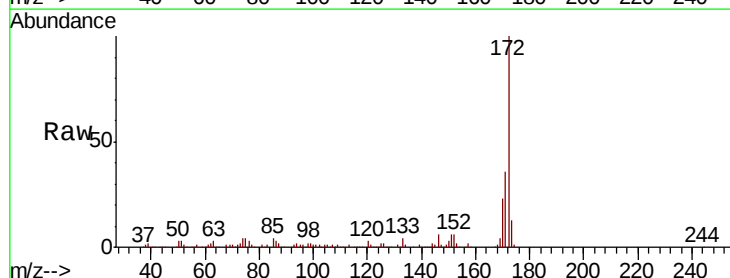


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

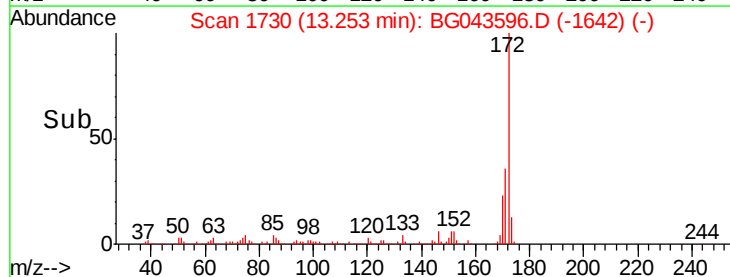
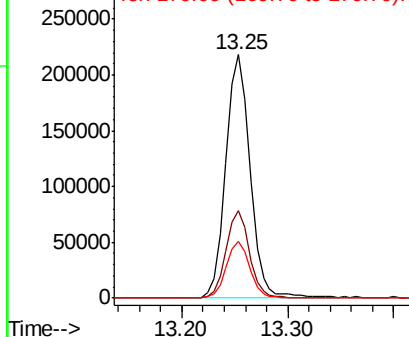


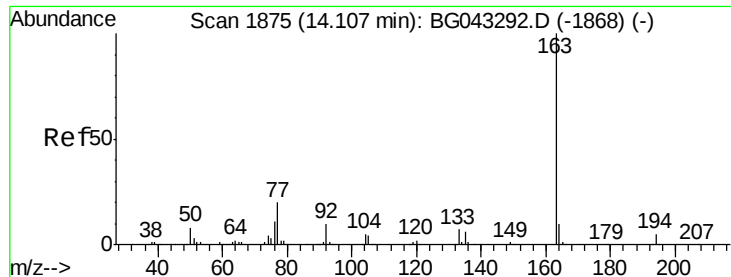
#45  
 2-Fluorobiphenyl  
 Concen: 45.610 ng  
 RT: 13.25 min Scan# 1730  
 Delta R.T. -0.01 min  
 Lab File: BG043596.D  
 Acq: 11 Nov 2019 23:12

Tgt Ion:172 Resp: 347913  
 Ion Ratio Lower Upper  
 172 100  
 171 35.7 28.9 43.3  
 170 23.4 18.5 27.7



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





#50

Dimethylphthalate

Concen: 2.280 ng

RT: 14.08 min Scan# 1871

Delta R.T. -0.01 min

Lab File: BG043596.D

Acq: 11 Nov 2019 23:12

Instrument :

BNA\_G

ClientSampleId :

CO-1008

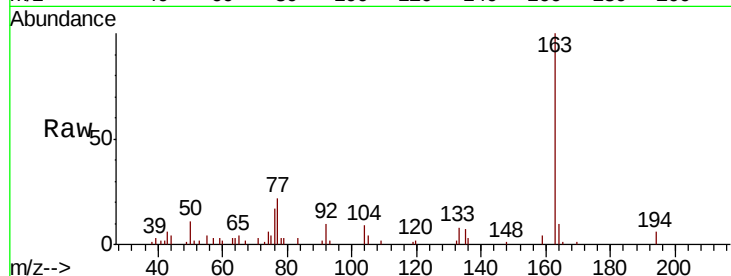
Tot Ion:163 Resp: 18614

Ion Ratio Lower Upper

163 100

194 5.8 3.8 5.6#

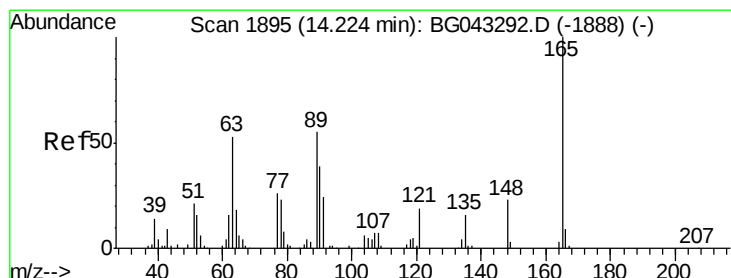
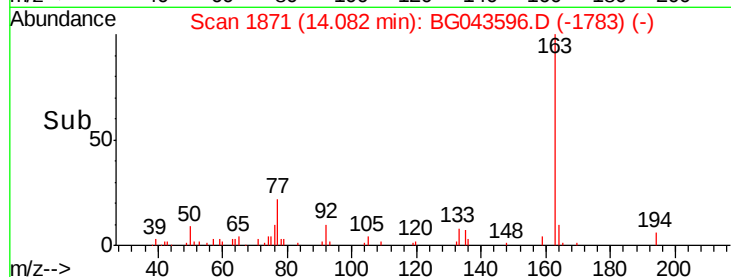
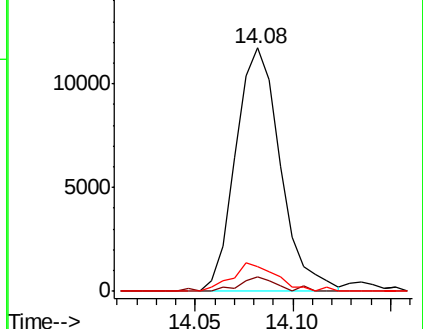
164 10.2 8.9 13.3



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



#51

2,6-Dinitrotoluene

Concen: 8.330 ng

RT: 14.63 min Scan# 1964

Delta R.T. 0.42 min

Lab File: BG043596.D

Acq: 11 Nov 2019 23:12

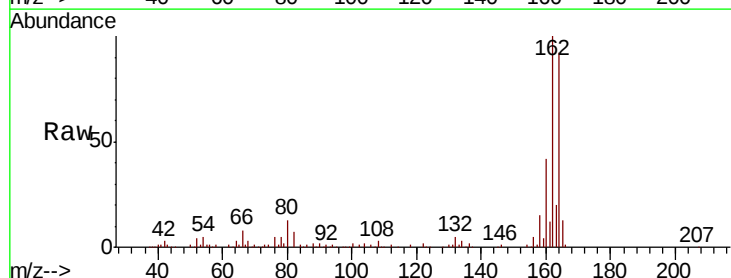
Tgt Ion:165 Resp: 14775

Ion Ratio Lower Upper

165 100

63 3.1 46.6 69.8#

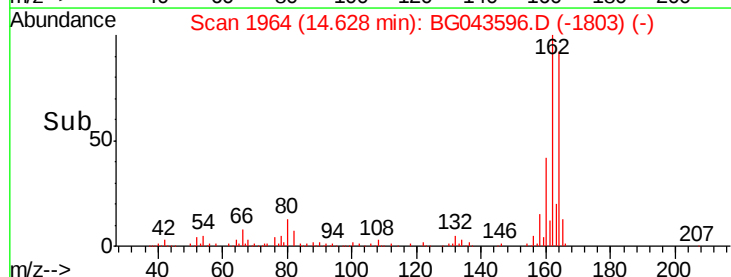
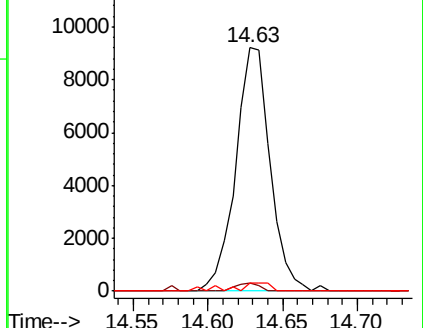
89 3.5 45.1 67.7#

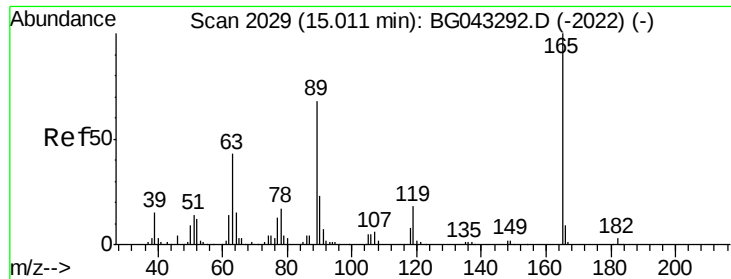


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

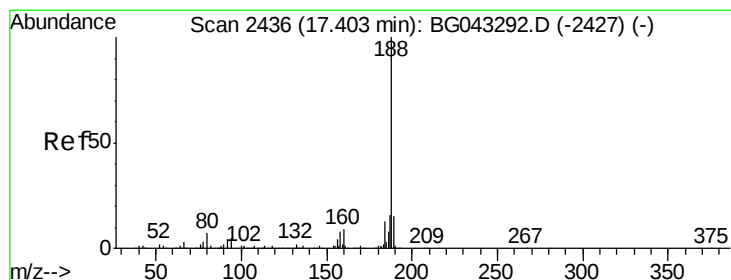
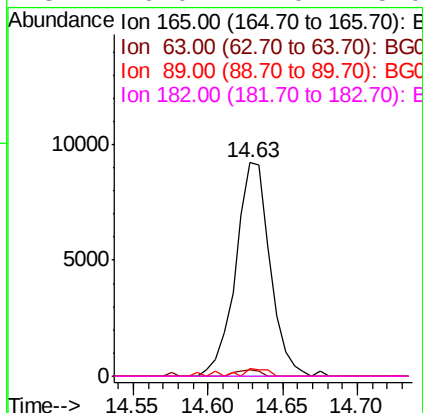
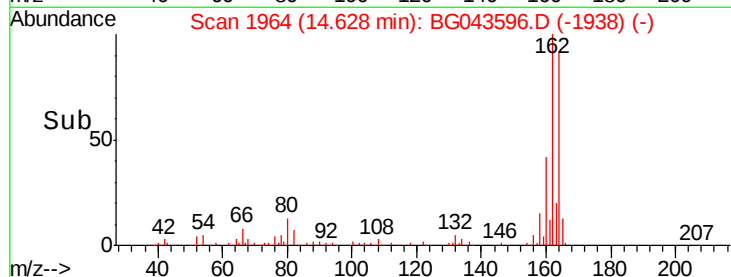
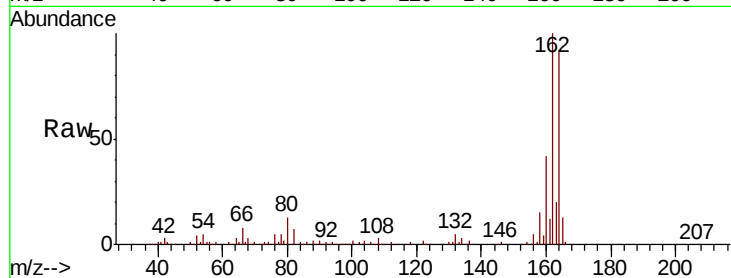




#57  
 2,4-Dinitrotoluene  
 Concen: 5.829 ng  
 RT: 14.63 min Scan# 1964  
 Delta R.T. -0.38 min  
 Lab File: BG043596.D  
 Acq: 11 Nov 2019 23:12

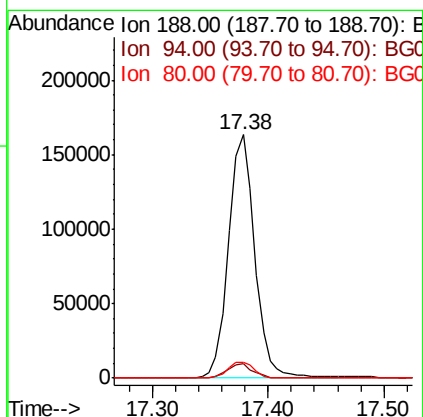
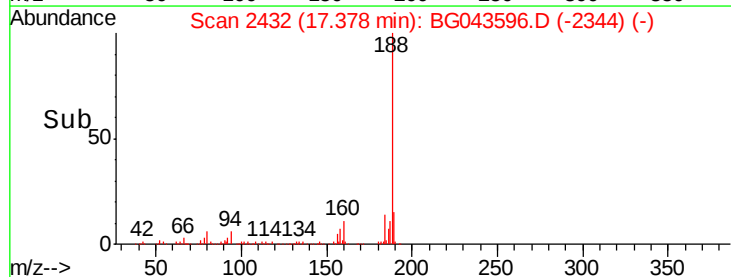
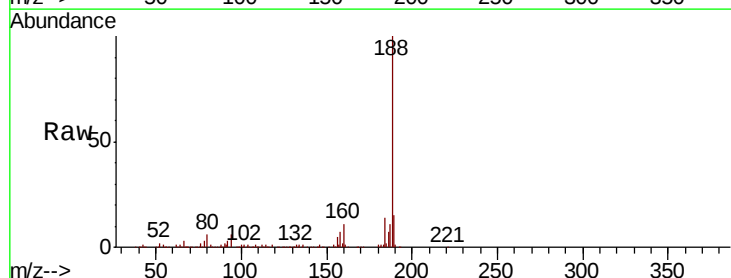
Instrument :  
 BNA\_G  
 ClientSampled :  
 CO-1008

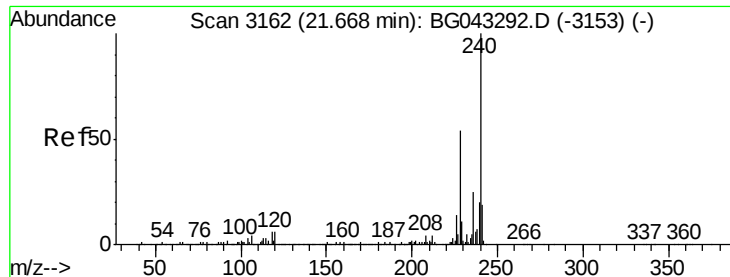
|             |       |            |
|-------------|-------|------------|
| Tot Ion:165 | Resp: | 14775      |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 3.1   | 33.2 49.8# |
| 89          | 3.5   | 52.2 78.4# |
| 182         | 0.0   | 2.0 3.0#   |



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.38 min Scan# 2432  
 Delta R.T. -0.01 min  
 Lab File: BG043596.D  
 Acq: 11 Nov 2019 23:12

|             |       |         |
|-------------|-------|---------|
| Tgt Ion:188 | Resp: | 259017  |
| Ion Ratio   | Lower | Upper   |
| 188         | 100   |         |
| 94          | 6.0   | 4.2 6.4 |
| 80          | 6.4   | 4.5 6.7 |





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.64 min Scan# 3158

Delta R.T. -0.01 min

Lab File: BG043596.D

Acq: 11 Nov 2019 23:12

Instrument :

BNA\_G

ClientSampled :

CO-1008

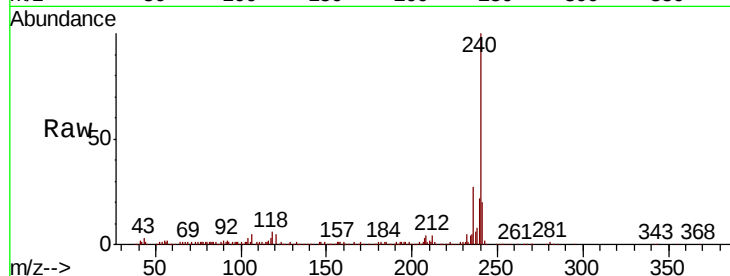
Tot Ion:240 Resp: 202390

Ion Ratio Lower Upper

240 100

120 5.2 4.6 6.8

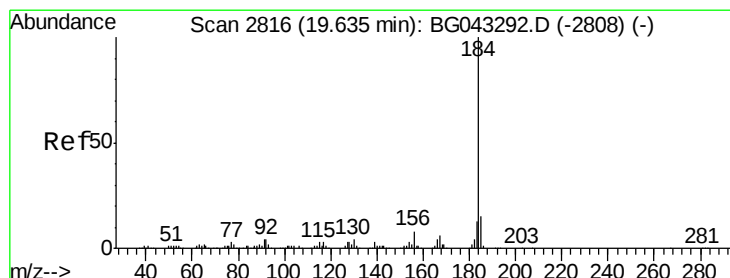
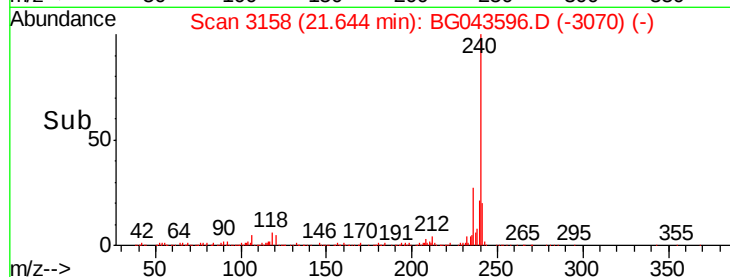
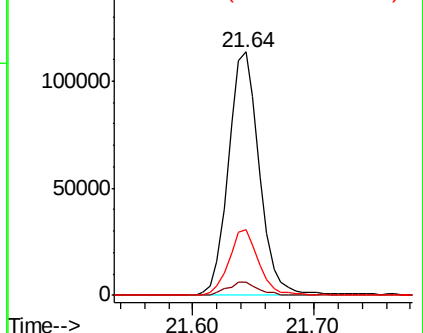
236 27.0 19.8 29.8



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: 2.218 ng

RT: 19.99 min Scan# 2876

Delta R.T. 0.36 min

Lab File: BG043596.D

Acq: 11 Nov 2019 23:12

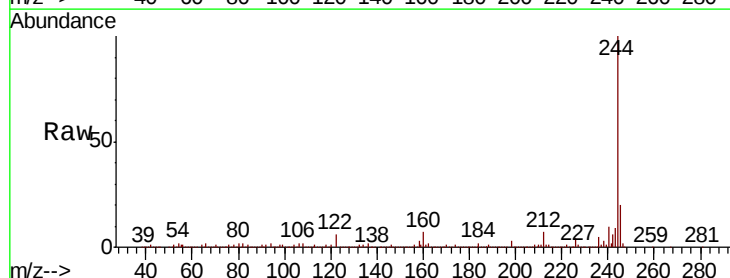
Tgt Ion:184 Resp: 9034

Ion Ratio Lower Upper

184 100

185 26.4 11.0 16.4#

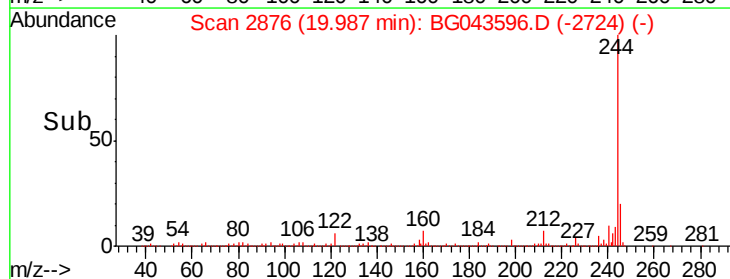
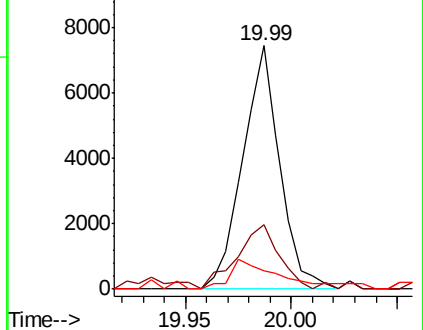
183 7.8 10.0 15.0#

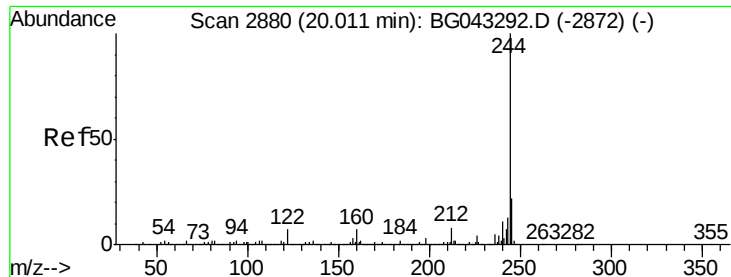


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#79

Terphenyl-d14

Concen: 57.394 ng

RT: 19.99 min Scan# 2876

Delta R.T. -0.01 min

Lab File: BG043596.D

Acq: 11 Nov 2019 23:12

Instrument :

BNA\_G

ClientSampleId :

CO-1008

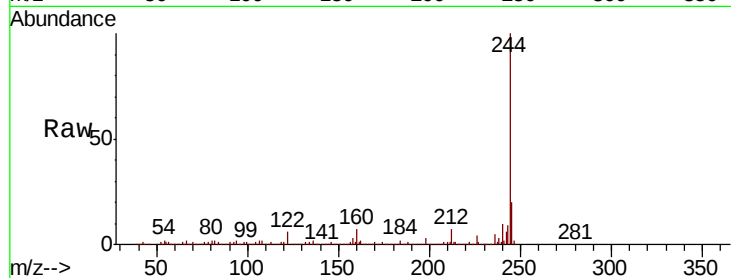
Tot Ion:244 Resp: 619170

Ion Ratio Lower Upper

244 100

212 6.9 5.8 8.6

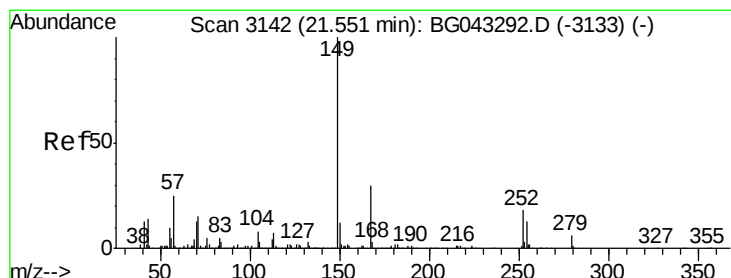
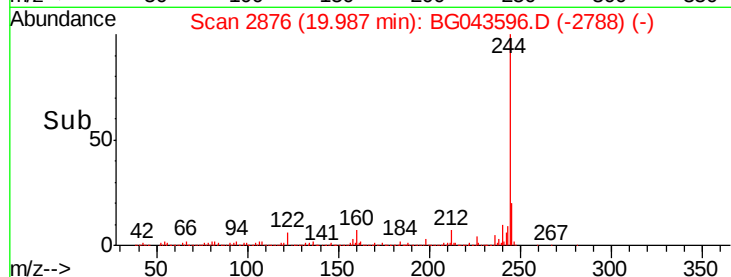
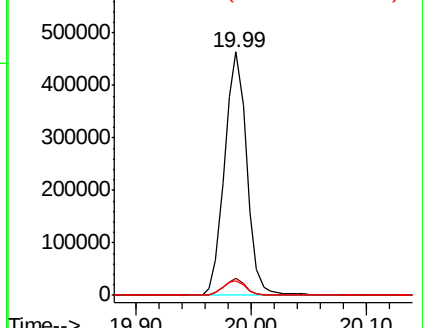
122 6.2 5.4 8.2



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



#84

Bis(2-ethylhexyl)phthalate

Concen: 79.906 ng

RT: 21.53 min Scan# 3138

Delta R.T. -0.01 min

Lab File: BG043596.D

Acq: 11 Nov 2019 23:12

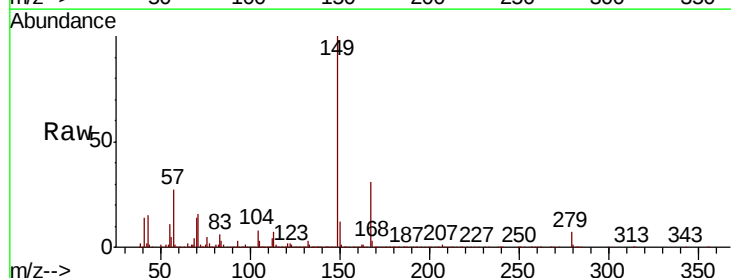
Tgt Ion:149 Resp: 538735

Ion Ratio Lower Upper

149 100

167 31.1 24.0 36.0

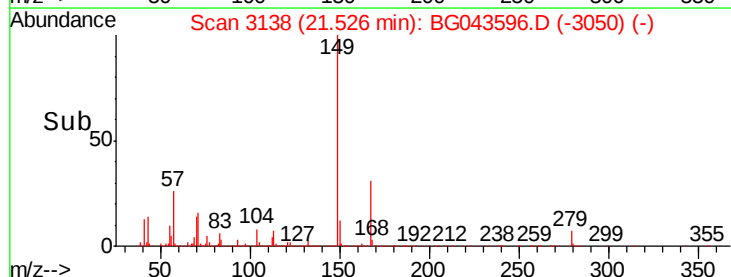
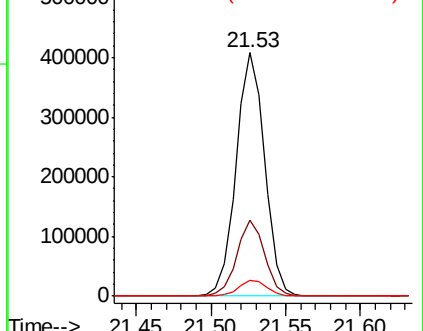
279 6.6 5.4 8.2

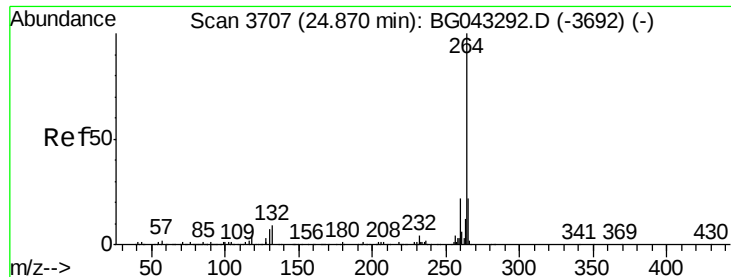


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 24.82 min Scan# 3699  
 Delta R.T. -0.03 min  
 Lab File: BG043596.D  
 Acq: 11 Nov 2019 23:12

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CO-1008

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 21.8  | 17.5  | 26.3  |
| 265     | 21.2  | 17.4  | 26.0  |

