

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG083018\  
 Data File : BG036491.D  
 Acq On : 30 Aug 2018 23:24  
 Operator : JU/SJ  
 Sample : J4677-01  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CB-0818-S-TCLP-GRID-42(1)

Quant Time: Aug 31 01:17:44 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG082318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 23 12:07:02 2018  
 Response via : Initial Calibration

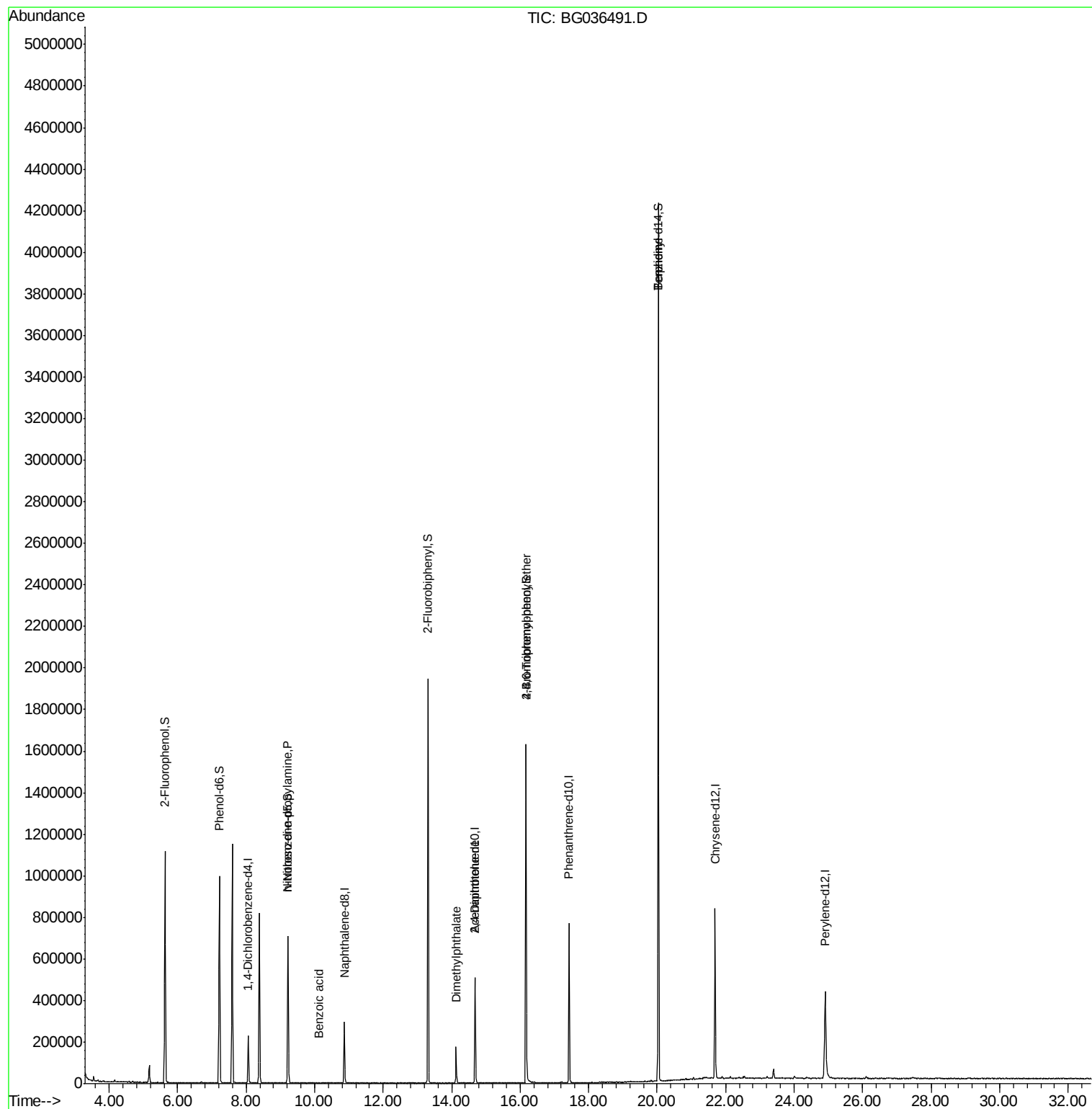
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.06  | 152  | 63727    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 10.87 | 136  | 257278   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 14.68 | 164  | 171910   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 17.43 | 188  | 465427   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 21.69 | 240  | 509725   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 24.91 | 264  | 503127   | 20.00  | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.63  | 112  | 463282   | 115.32 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.22  | 99   | 583895   | 101.51 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.22  | 82   | 440210   | 92.83  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 16.17 | 330  | 313613   | 152.89 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 13.31 | 172  | 1030561  | 85.59  | ng    | -0.01    |
| 78) Terphenyl-d14              | 20.04 | 244  | 1827951  | 83.82  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.22  | 70   | 60006    | 13.959 | ng    | # 68     |
| 32) Benzoic acid               | 10.13 | 122  | 53       | 4.496  | ng    | # 35     |
| 49) Dimethylphthalate          | 14.13 | 163  | 116119   | 8.272  | ng    | 100      |
| 56) 2,4-Dinitrotoluene         | 14.68 | 165  | 22173    | 5.890  | ng    | # 21     |
| 66) 4-Bromophenyl-phenylether  | 16.17 | 248  | 21986    | 4.035  | ng    | # 1      |
| 76) Benzidine                  | 20.04 | 184  | 32792    | 2.016  | ng    | # 95     |

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

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CB-0818-S-TCLP-GRID-42(1)

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG082318.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Aug 23 12:07:02 2018  
Response via : Initial Calibration

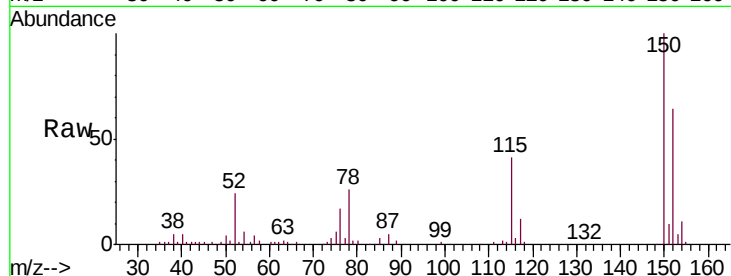




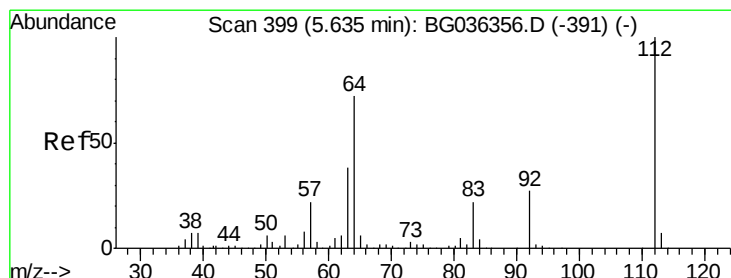
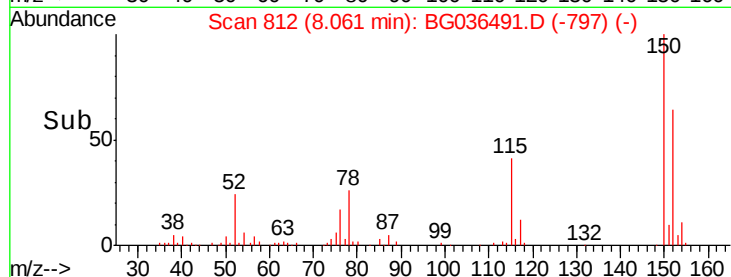
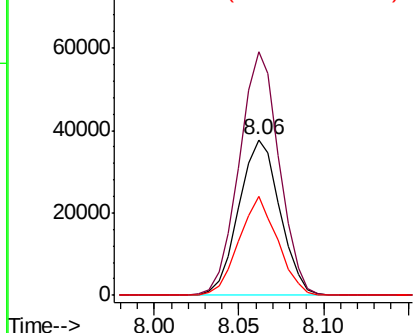
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.06 min Scan# 812  
 Delta R.T. -0.01 min  
 Lab File: BG036491.D  
 Acq: 30 Aug 2018 23:24

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CB-0818-S-TCLP-GRID-42(1)

Tgt Ion:152 Resp: 63727  
 Ion Ratio Lower Upper  
 152 100  
 150 156.5 119.5 179.3  
 115 63.6 44.5 66.7

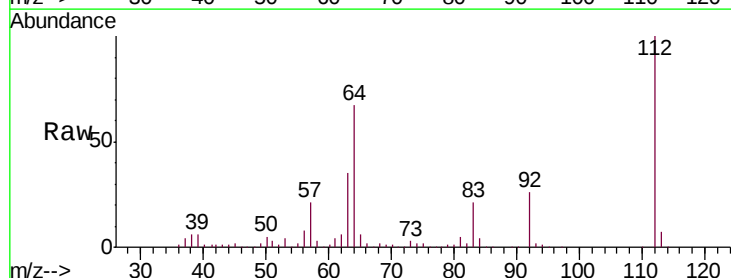


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

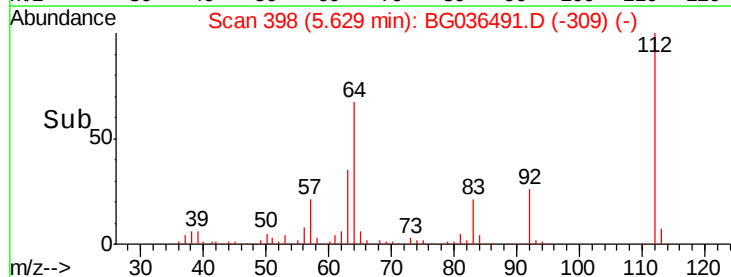
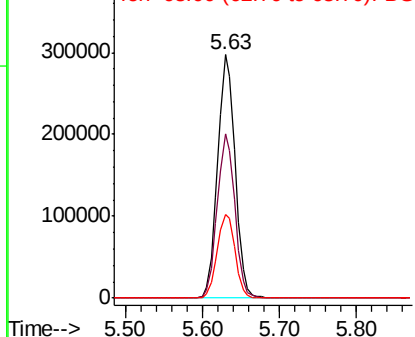


#5  
 2-Fluorophenol  
 Concen: 115.320 ng  
 RT: 5.63 min Scan# 398  
 Delta R.T. -0.01 min  
 Lab File: BG036491.D  
 Acq: 30 Aug 2018 23:24

Tgt Ion:112 Resp: 463282  
 Ion Ratio Lower Upper  
 112 100  
 64 67.4 57.2 85.8  
 63 34.6 30.8 46.2



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: 101.514 ng

RT: 7.22 min Scan# 668

Delta R.T. -0.01 min

Lab File: BG036491.D

Acq: 30 Aug 2018 23:24

Instrument :

BNA\_G

ClientSampleId :

CB-0818-S-TCLP-GRID-42(1)

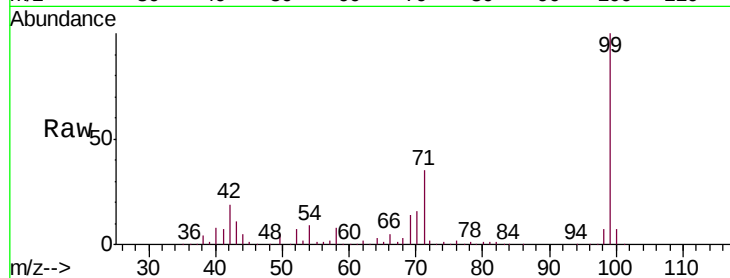
Tgt Ion: 99 Resp: 583895

Ion Ratio Lower Upper

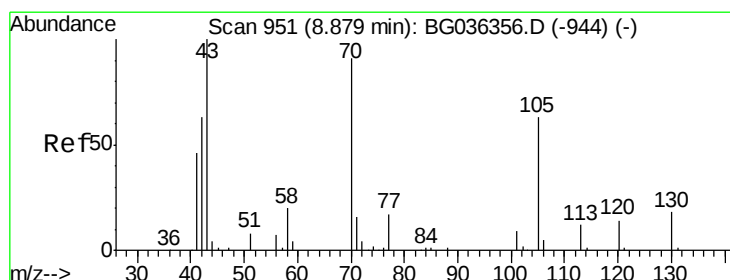
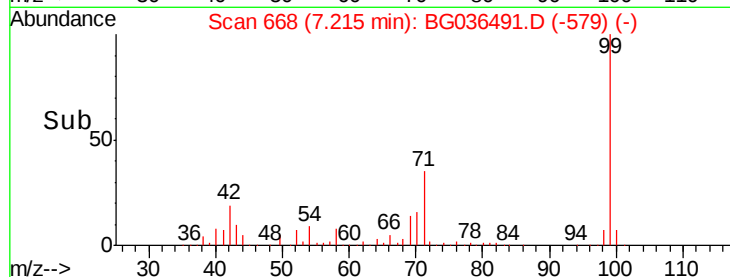
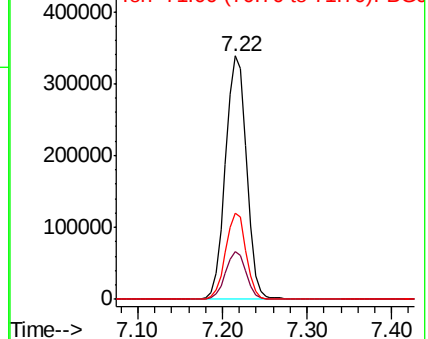
99 100

42 19.5 16.5 24.7

71 35.2 29.4 44.2



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: 13.959 ng

RT: 9.22 min Scan# 1010

Delta R.T. 0.35 min

Lab File: BG036491.D

Acq: 30 Aug 2018 23:24

Tgt Ion: 70 Resp: 60006

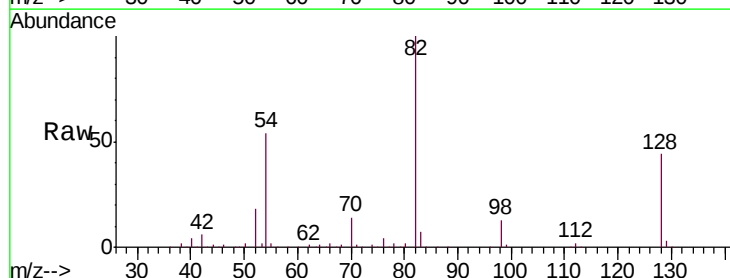
Ion Ratio Lower Upper

70 100

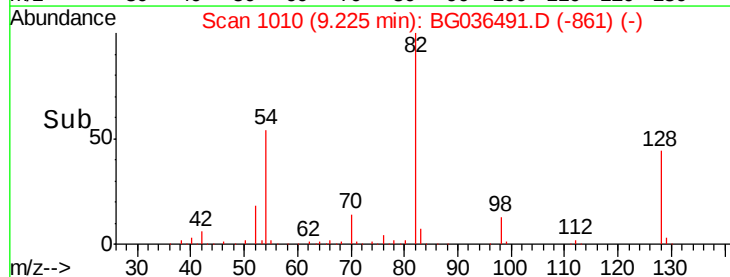
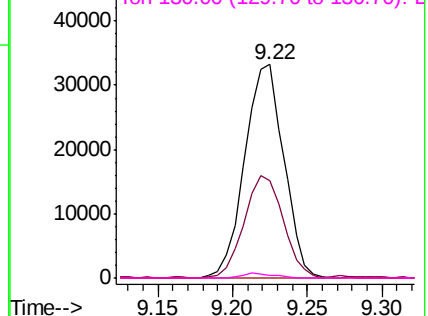
42 45.8 56.2 84.4#

101 0.0 7.8 11.6#

130 1.4 16.2 24.2#



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

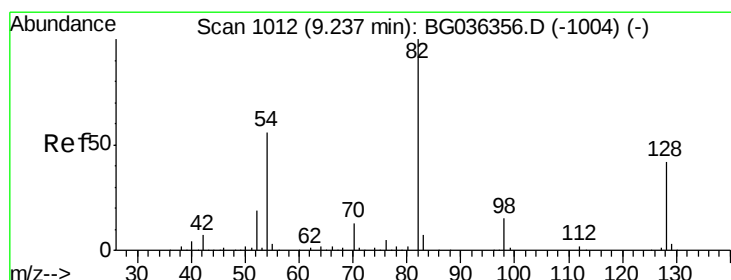
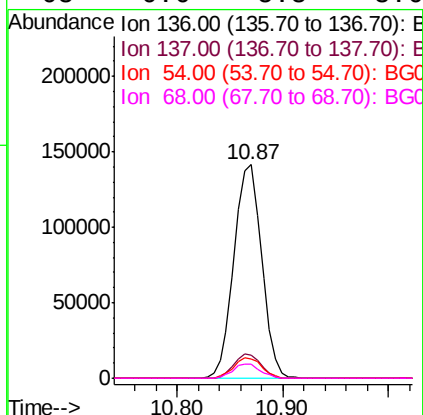
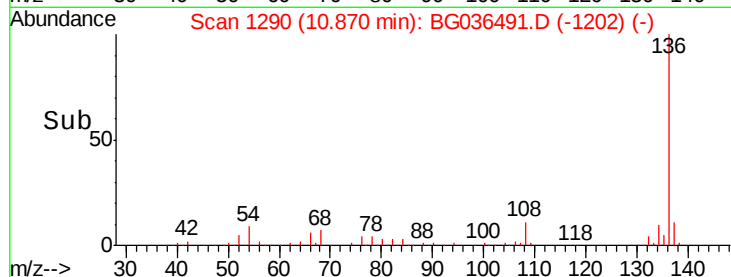
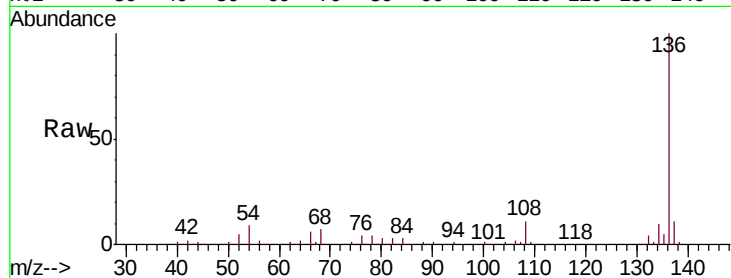




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.87 min Scan# 1290  
Delta R.T. -0.01 min  
Lab File: BG036491.D  
Acq: 30 Aug 2018 23:24

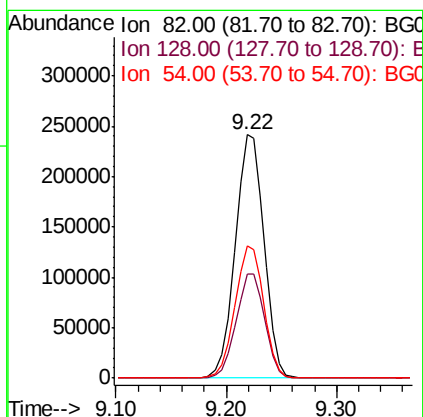
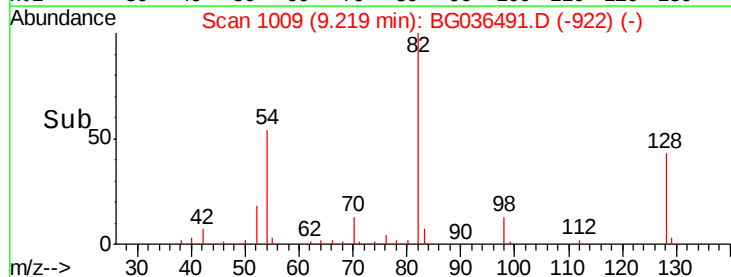
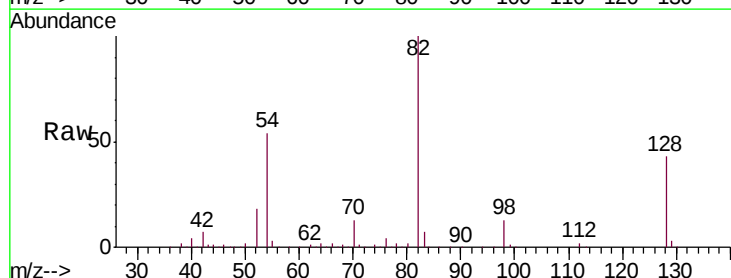
Instrument :  
BNA\_G  
ClientSampleId :  
CB-0818-S-TCLP-GRID-42(1)

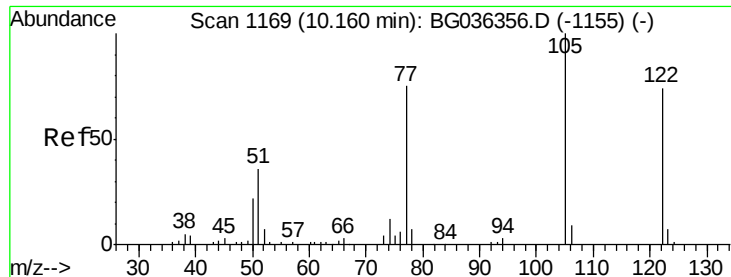
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 257278 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.8  | 8.8   | 13.2   |
| 54       | 9.2   | 9.2   | 13.8   |
| 68       | 6.6   | 5.8   | 8.6    |



#23  
Nitrobenzene-d5  
Concen: 92.835 ng  
RT: 9.22 min Scan# 1009  
Delta R.T. -0.02 min  
Lab File: BG036491.D  
Acq: 30 Aug 2018 23:24

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 440210 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 42.7  | 33.3  | 49.9   |
| 54       | 54.3  | 45.1  | 67.7   |





#32

Benzoic acid

Concen: 4.496 ng

RT: 10.13 min Scan# 1164

Delta R.T. -0.03 min

Lab File: BG036491.D

Acq: 30 Aug 2018 23:24

Instrument :

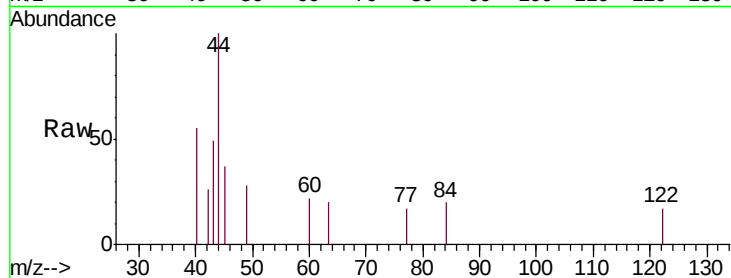
BNA\_G

ClientSampleId :

CB-0818-S-TCLP-GRID-42(1)

Tgt Ion:122 Resp: 53

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 122 | 100   |       |        |
| 105 | 0.0   | 108.1 | 148.1# |
| 77  | 100.7 | 76.3  | 116.3  |

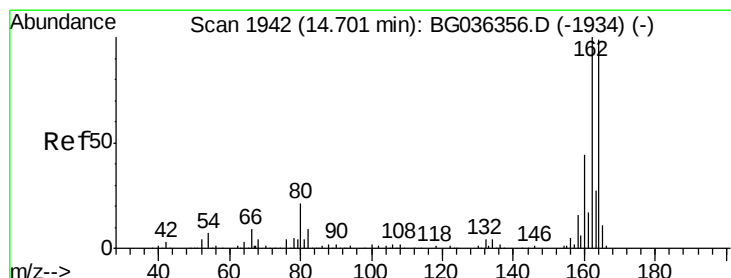
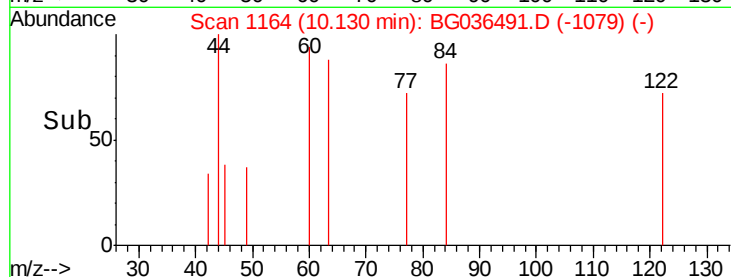
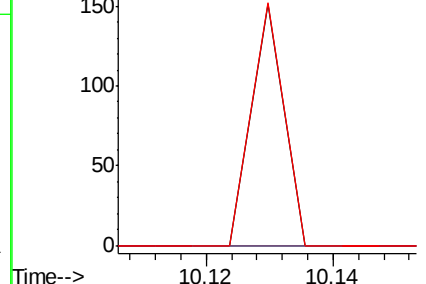


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BGC

10.13



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.68 min Scan# 1939

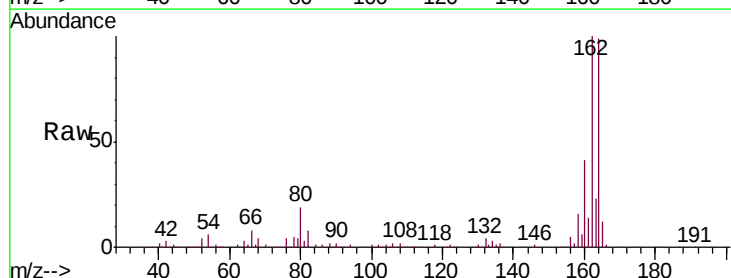
Delta R.T. -0.02 min

Lab File: BG036491.D

Acq: 30 Aug 2018 23:24

Tgt Ion:164 Resp: 171910

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 101.4 | 80.7  | 121.1 |
| 160 | 41.3  | 35.3  | 52.9  |

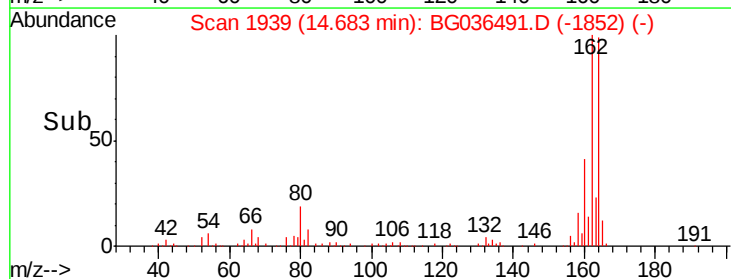
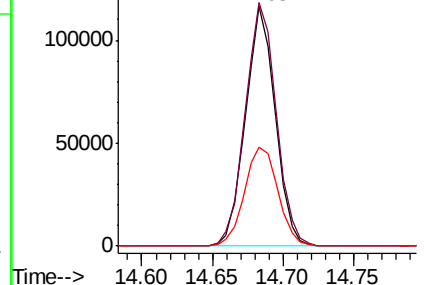


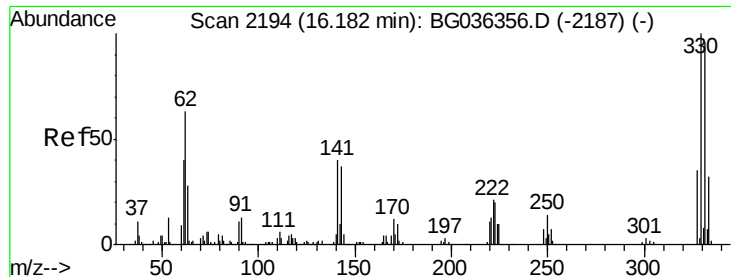
Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

14.68

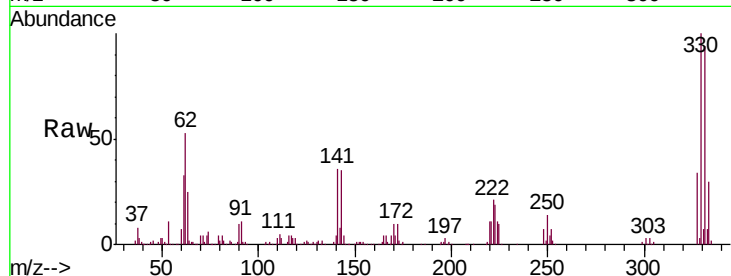




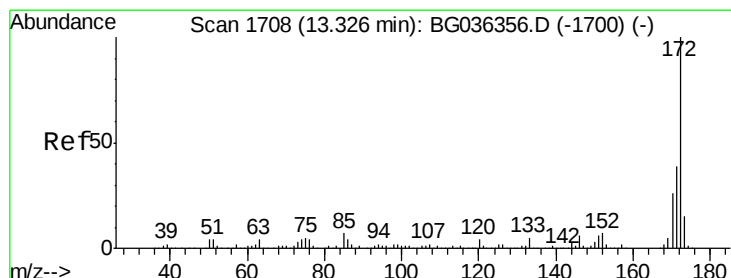
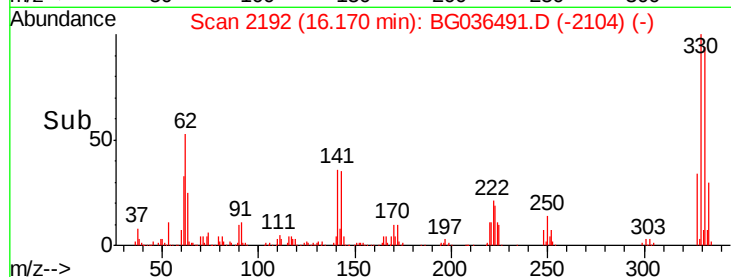
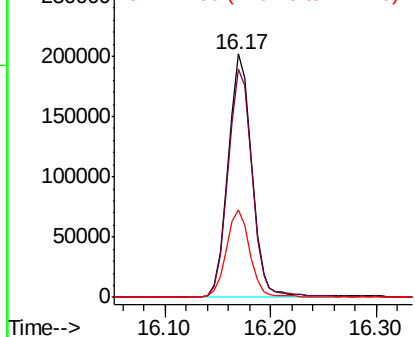
#41  
 2,4,6-Tribromophenol  
 Concen: 152.887 ng  
 RT: 16.17 min Scan# 2192  
 Delta R.T. -0.01 min  
 Lab File: BG036491.D  
 Acq: 30 Aug 2018 23:24

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CB-0818-S-TCLP-GRID-42(1)

Tgt Ion:330 Resp: 313613  
 Ion Ratio Lower Upper  
 330 100  
 332 95.5 75.4 113.2  
 141 35.6 30.7 46.1

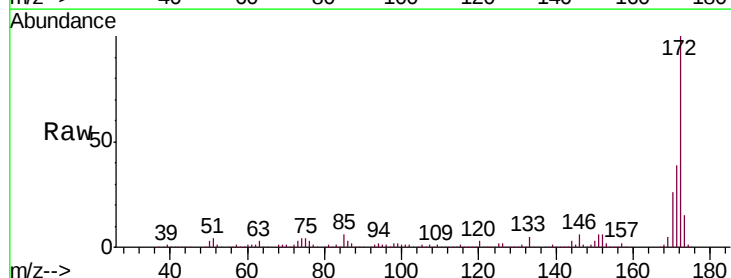


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

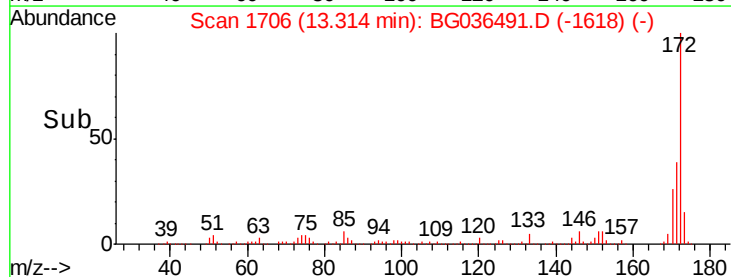
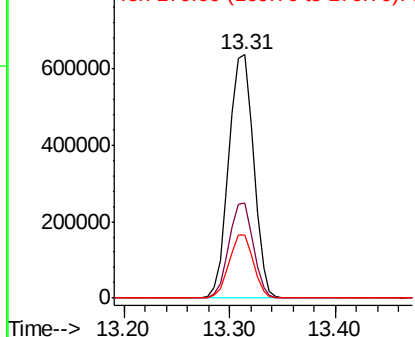


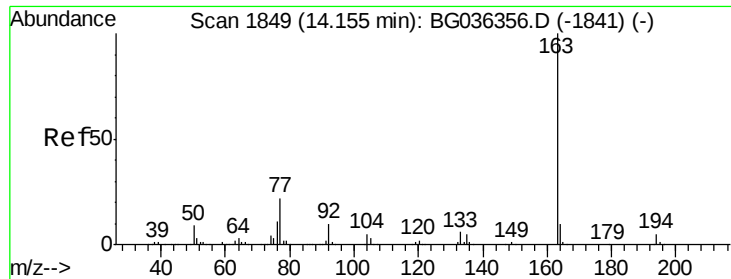
#44  
 2-Fluorobiphenyl  
 Concen: 85.594 ng  
 RT: 13.31 min Scan# 1706  
 Delta R.T. -0.01 min  
 Lab File: BG036491.D  
 Acq: 30 Aug 2018 23:24

Tgt Ion:172 Resp: 1030561  
 Ion Ratio Lower Upper  
 172 100  
 171 38.8 31.3 46.9  
 170 26.2 21.0 31.6



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





#49

Dimethylphthalate

Concen: 8.272 ng

RT: 14.13 min Scan# 1845

Delta R.T. -0.02 min

Lab File: BG036491.D

Acq: 30 Aug 2018 23:24

Instrument :

BNA\_G

ClientSampleId :

CB-0818-S-TCLP-GRID-42(1)

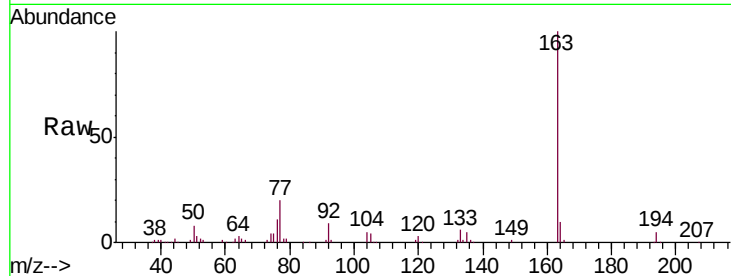
Tgt Ion:163 Resp: 116119

Ion Ratio Lower Upper

163 100

194 5.0 4.0 6.0

164 10.0 8.1 12.1

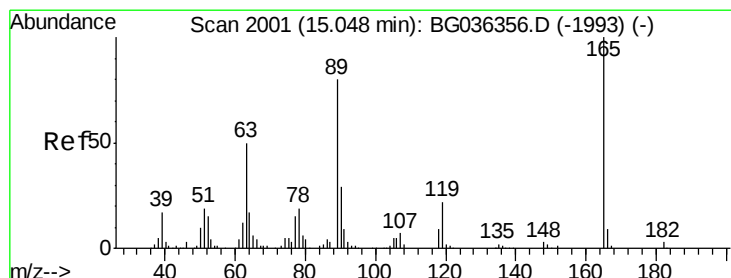
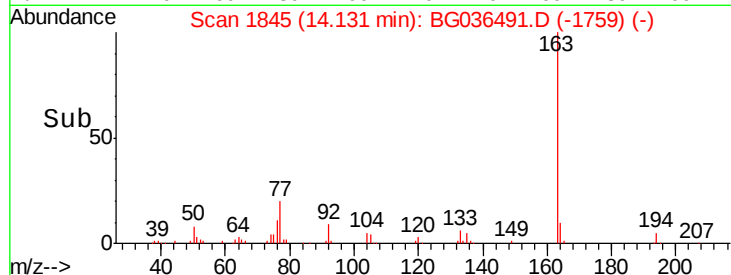
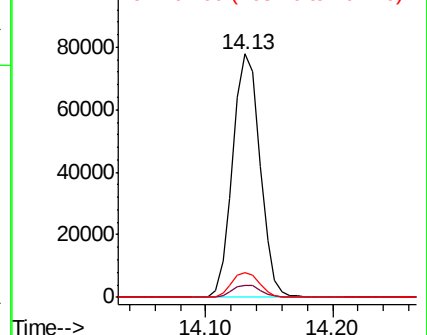


Abundance

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



#56

2,4-Dinitrotoluene

Concen: 5.890 ng

RT: 14.68 min Scan# 1939

Delta R.T. -0.36 min

Lab File: BG036491.D

Acq: 30 Aug 2018 23:24

Tgt Ion:165 Resp: 22173

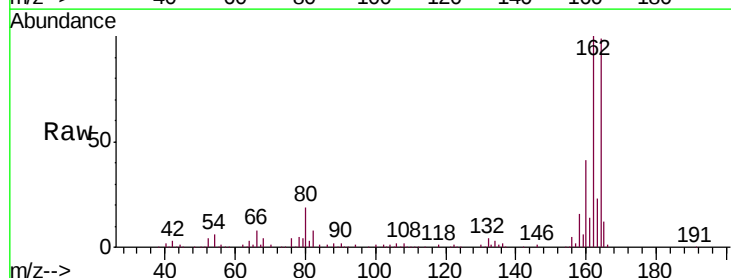
Ion Ratio Lower Upper

165 100

63 2.9 40.1 60.1#

89 1.2 63.7 95.5#

182 0.0 2.5 3.7#



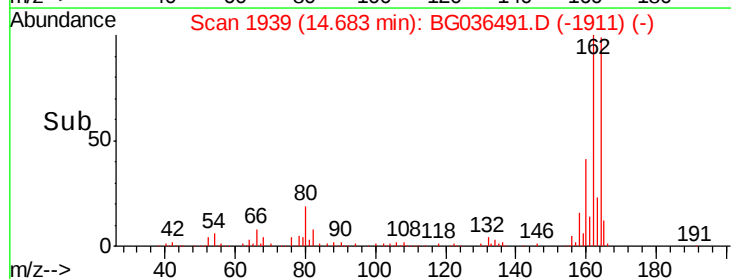
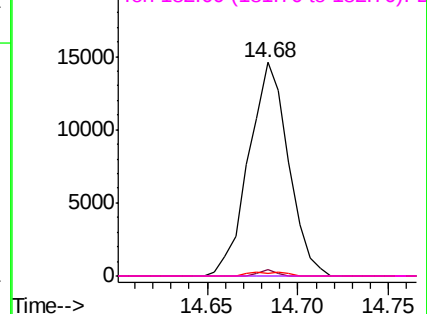
Abundance

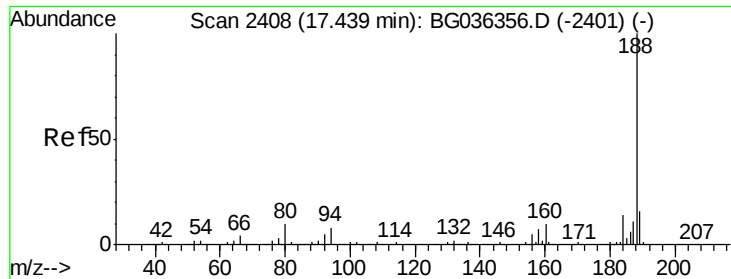
Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E

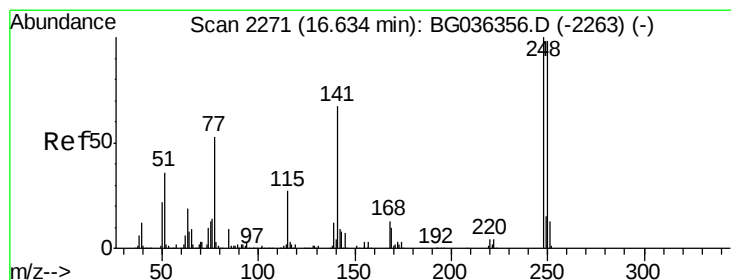
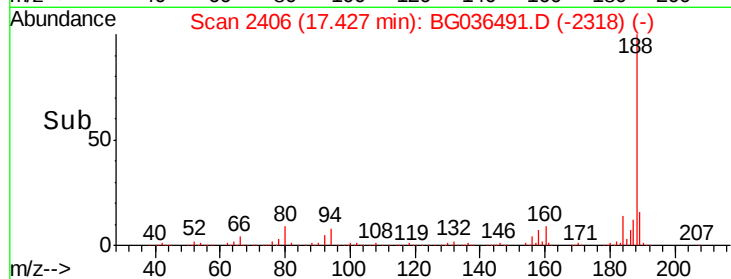
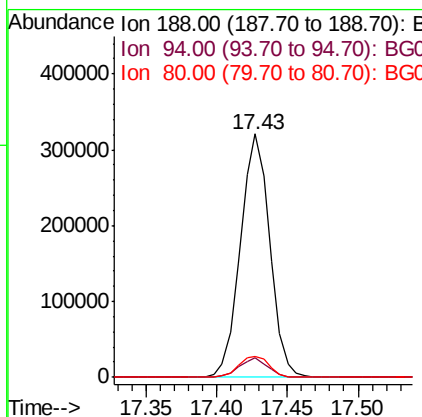
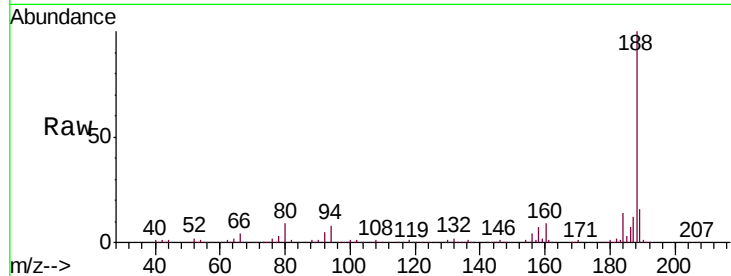




#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.43 min Scan# 2406  
 Delta R.T. -0.01 min  
 Lab File: BG036491.D  
 Acq: 30 Aug 2018 23:24

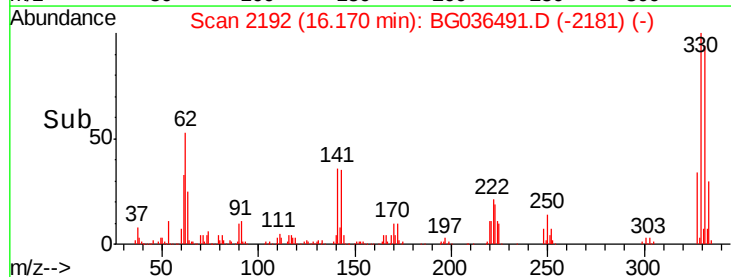
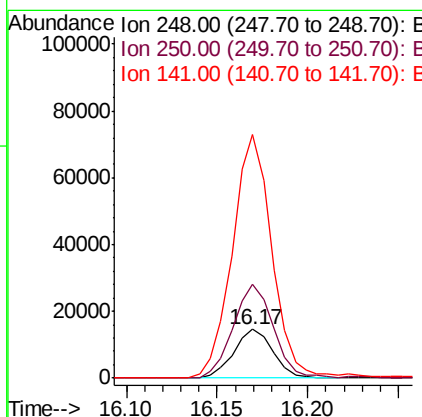
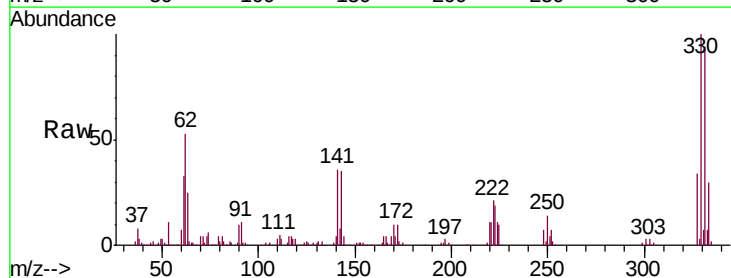
Instrument :  
 BNA\_G  
 ClientSampleId :  
 CB-0818-S-TCLP-GRID-42(1)

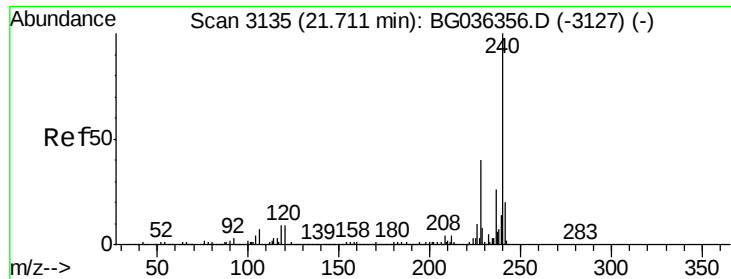
Tgt Ion:188 Resp: 465427  
 Ion Ratio Lower Upper  
 188 100  
 94 7.9 6.7 10.1  
 80 8.6 8.1 12.1



#66  
 4-Bromophenyl-phenylether  
 Concen: 4.035 ng  
 RT: 16.17 min Scan# 2192  
 Delta R.T. -0.46 min  
 Lab File: BG036491.D  
 Acq: 30 Aug 2018 23:24

Tgt Ion:248 Resp: 21986  
 Ion Ratio Lower Upper  
 248 100  
 250 193.2 78.1 117.1#  
 141 501.9 53.7 80.5#





#75

Chrysene-d12

Concen: 20.000 ng

RT: 21.69 min Scan# 3132

Delta R.T. -0.02 min

Lab File: BG036491.D

Acq: 30 Aug 2018 23:24

Instrument :

BNA\_G

ClientSampleId :

CB-0818-S-TCLP-GRID-42(1)

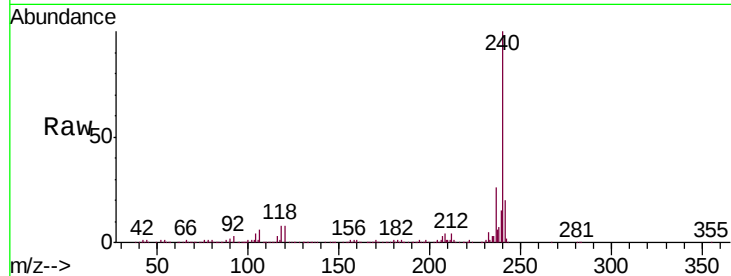
Tgt Ion:240 Resp: 509725

Ion Ratio Lower Upper

240 100

120 8.1 6.9 10.3

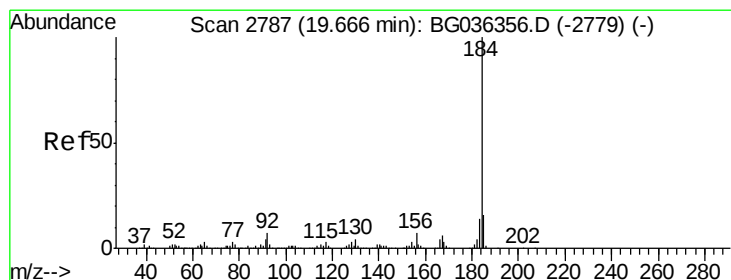
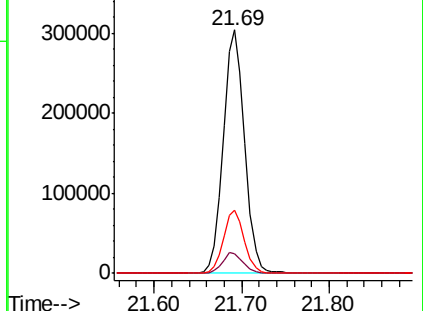
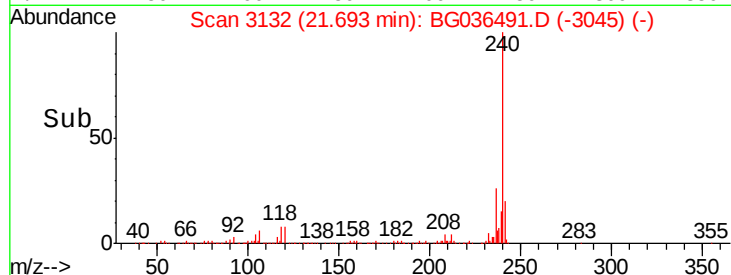
236 25.8 21.2 31.8



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



#76

Benzidine

Concen: 2.016 ng

RT: 20.04 min Scan# 2850

Delta R.T. 0.37 min

Lab File: BG036491.D

Acq: 30 Aug 2018 23:24

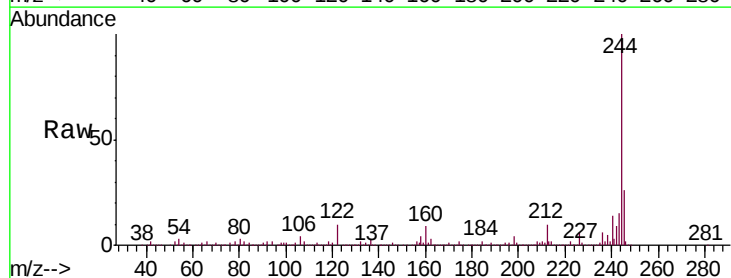
Tgt Ion:184 Resp: 32792

Ion Ratio Lower Upper

184 100

185 15.8 12.6 18.8

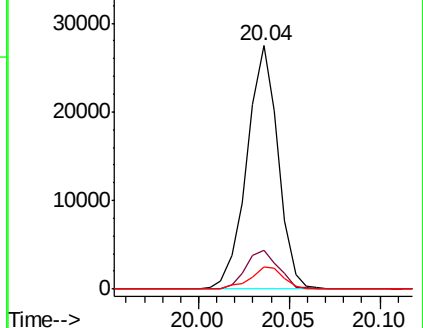
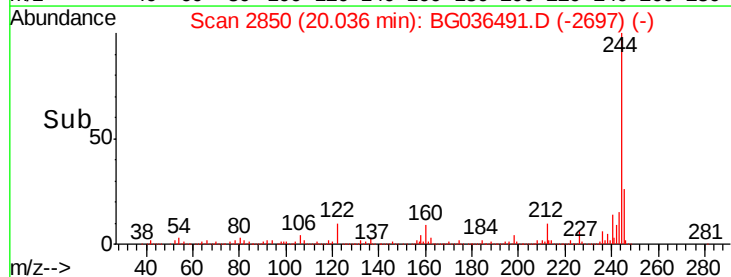
183 9.0 10.9 16.3#

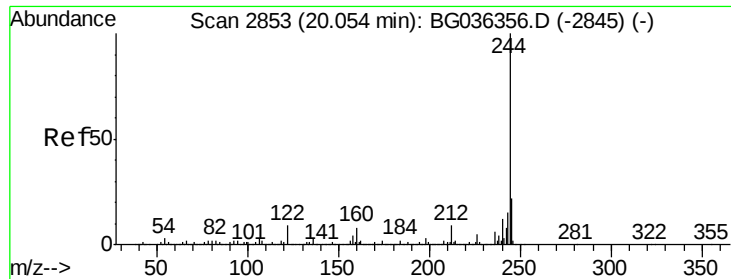


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Terphenyl-d14

Concen: 83.821 ng

RT: 20.04 min Scan# 2850

Delta R.T. -0.02 min

Lab File: BG036491.D

Acq: 30 Aug 2018 23:24

Instrument :

BNA\_G

ClientSampleId :

CB-0818-S-TCLP-GRID-42(1)

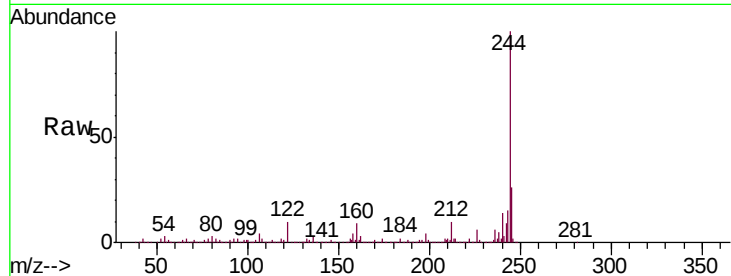
Tgt Ion:244 Resp: 1827951

Ion Ratio Lower Upper

244 100

212 9.7 7.0 10.6

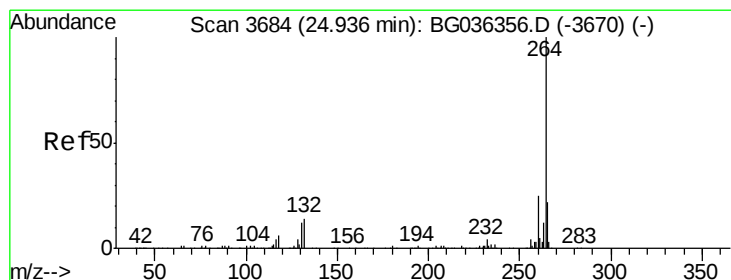
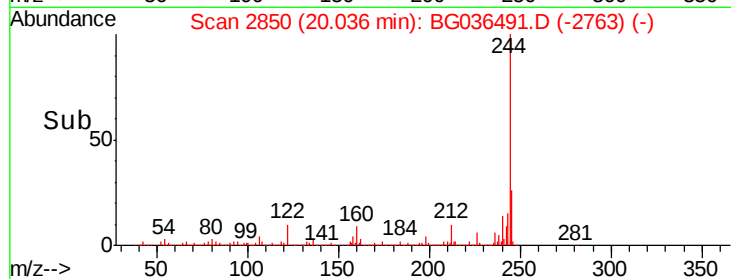
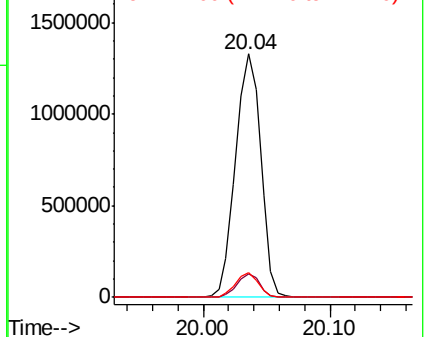
122 10.2 7.1 10.7



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.91 min Scan# 3679

Delta R.T. -0.03 min

Lab File: BG036491.D

Acq: 30 Aug 2018 23:24

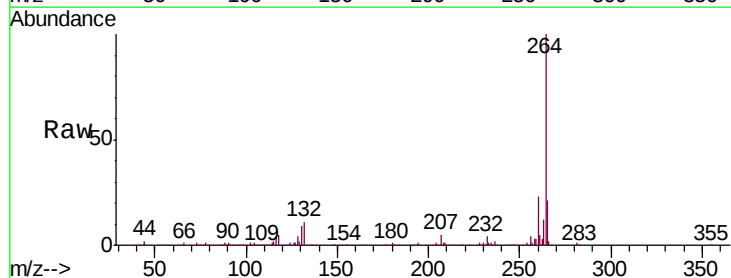
Tgt Ion:264 Resp: 503127

Ion Ratio Lower Upper

264 100

260 23.1 19.6 29.4

265 20.9 17.4 26.0



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

