

Data File : BG041064.D  
Acq On : 4 Jun 2019 18:52  
Operator : HP/JU  
Sample : K3023-01  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SSSI-0523-S-TCLP-11

Quant Time: Jun 05 05:23:59 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG052919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 29 18:39:57 2019  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.11  | 152  | 94145    | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 10.93 | 136  | 351214   | 20.00 | ng    | -0.02    |
| 39) Acenaphthene-d10      | 14.74 | 164  | 235318   | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10      | 17.48 | 188  | 597297   | 20.00 | ng    | -0.02    |
| 76) Chrysene-d12          | 21.76 | 240  | 629012   | 20.00 | ng    | -0.02    |
| 87) Perylene-d12          | 25.10 | 264  | 687554   | 20.00 | ng    | -0.03    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.65  | 112  | 323761   | 62.01 | ng    | 0.00     |
| 7) Phenol-d6                | 7.26  | 99   | 428610   | 53.16 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.29  | 82   | 363765   | 45.98 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 16.23 | 330  | 246062   | 70.44 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl        | 13.37 | 172  | 772987   | 47.31 | ng    | -0.02    |
| 79) Terphenyl-d14           | 20.08 | 244  | 1402161  | 47.31 | ng    | -0.02    |

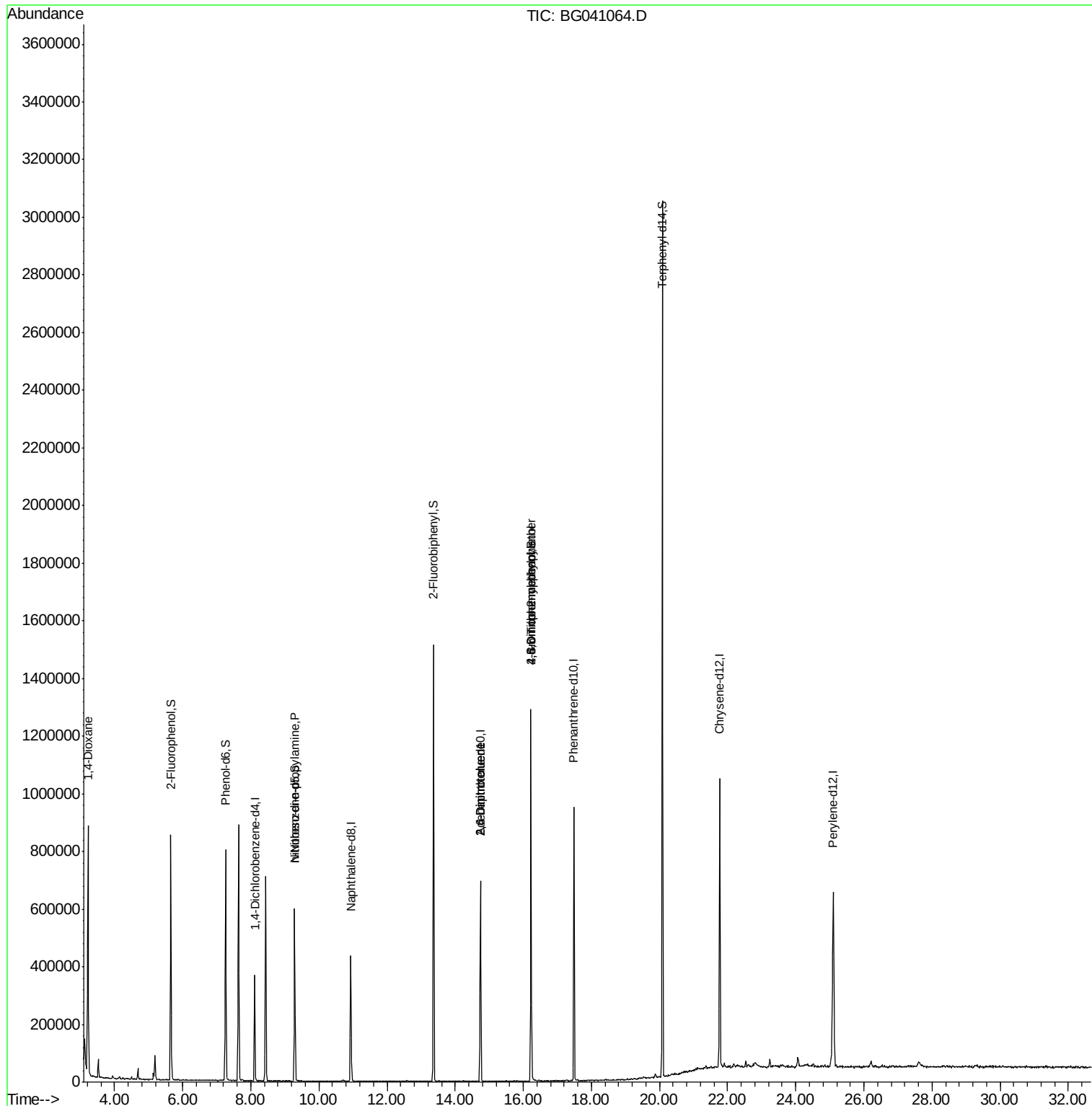
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.22  | 88   | 9908     | 4.182 | ng    | # 1    |
| 19) n-Nitroso-di-n-propylamine | 9.29  | 70   | 52398    | 8.444 | ng    | # 72   |
| 51) 2,6-Dinitrotoluene         | 14.74 | 165  | 31226    | 7.271 | ng    | # 20   |
| 57) 2,4-Dinitrotoluene         | 14.74 | 165  | 31226    | 5.147 | ng    | # 22   |
| 65) 4,6-Dinitro-2-methylphenol | 16.23 | 198  | 711      | 8.772 | ng    | # 24   |
| 67) 4-Bromophenyl-phenylether  | 16.23 | 248  | 17922    | 2.223 | ng    | # 1    |

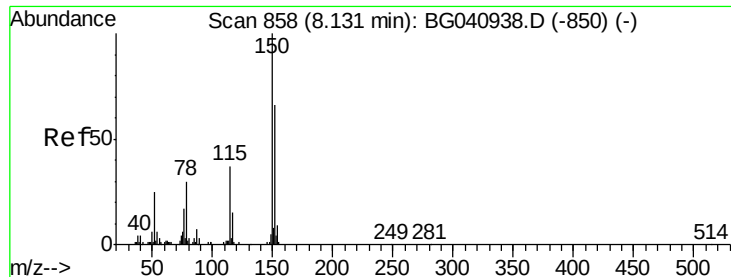
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.11 min Scan# 855

Delta R.T. -0.02 min

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Instrument :

BNA\_G

ClientSampleId :

SSSI-0523-S-TCLP-11

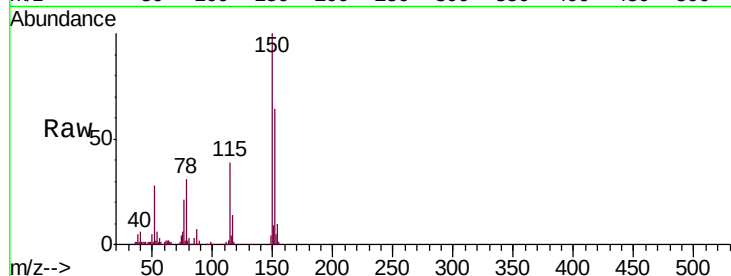
Tgt Ion:152 Resp: 94145

Ion Ratio Lower Upper

152 100

150 157.1 120.6 180.8

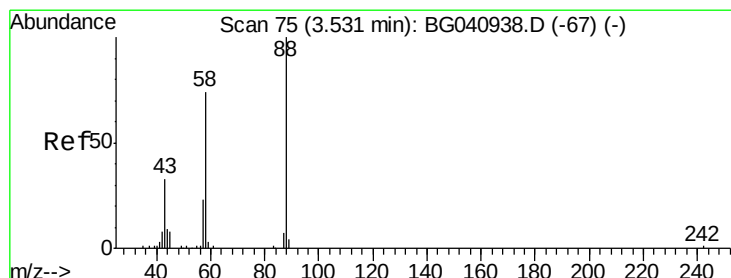
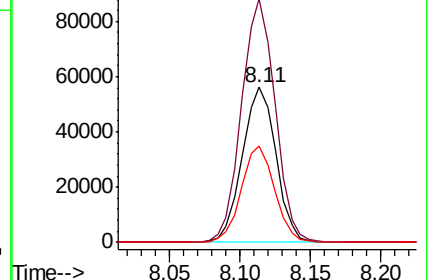
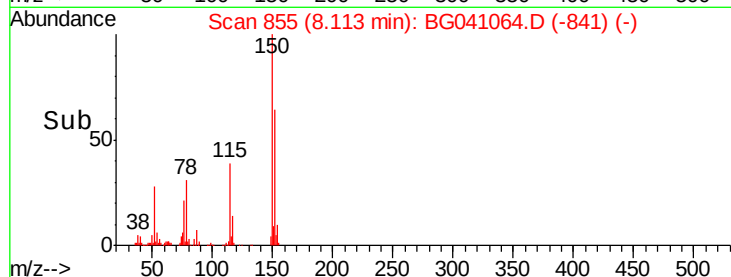
115 62.0 45.1 67.7



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



#2

1,4-Dioxane

Concen: 4.182 ng

RT: 3.22 min Scan# 22

Delta R.T. -0.31 min

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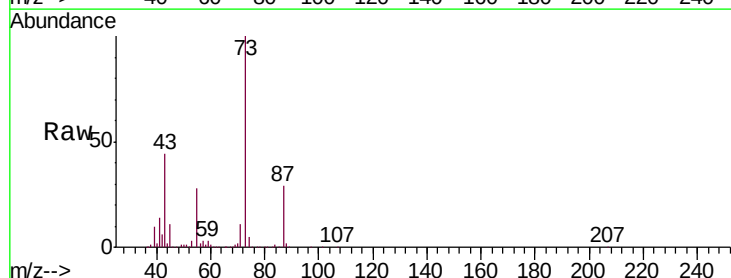
Tgt Ion: 88 Resp: 9908

Ion Ratio Lower Upper

88 100

58 32.9 59.0 88.6#

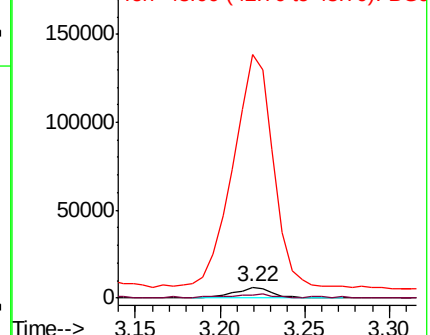
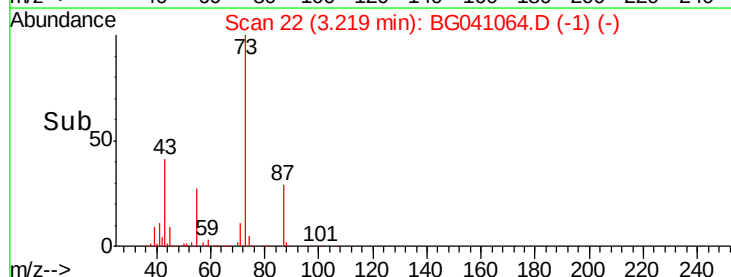
43 2287.3 27.2 40.8#

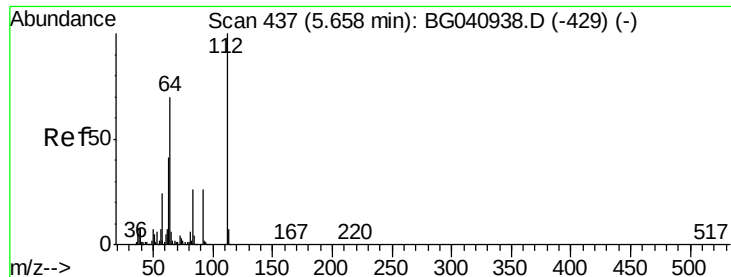


Abundance Ion 88.00 (87.70 to 88.70): BGC

Ion 58.00 (57.70 to 58.70): BGC

Ion 43.00 (42.70 to 43.70): BGC





#5

2-Fluorophenol

Concen: 62.012 ng

RT: 5.65 min Scan# 436

Delta R.T. -0.01 min

Lab File: BG041064.D

Acq: 4 Jun 2019 18:52

Instrument :

BNA\_G

ClientSampleId :

SSSI-0523-S-TCLP-11

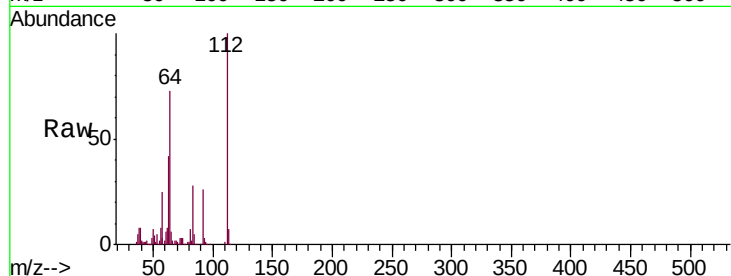
Tgt Ion: 112 Resp: 323761

Ion Ratio Lower Upper

112 100

64 73.0 56.2 84.2

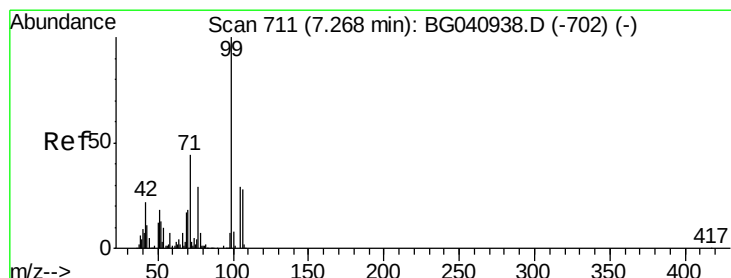
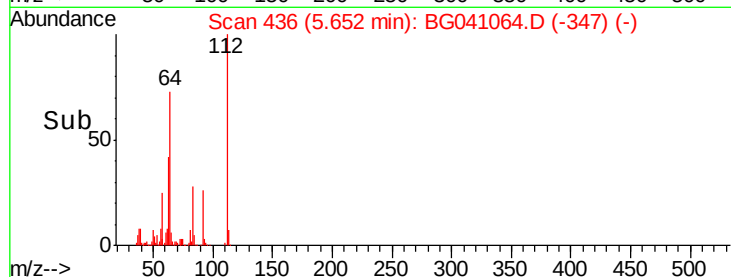
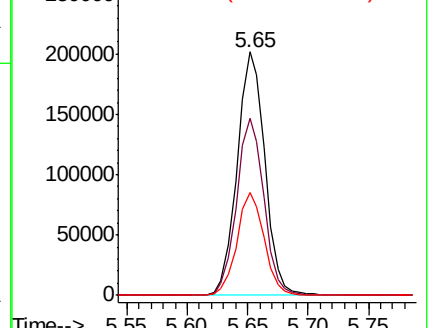
63 42.2 32.8 49.2



Abundance Ion 112.00 (111.70 to 112.70): BGC

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC



#7

Phenol-d6

Concen: 53.156 ng

RT: 7.26 min Scan# 710

Delta R.T. -0.01 min

Lab File: BG041064.D

Acq: 4 Jun 2019 18:52

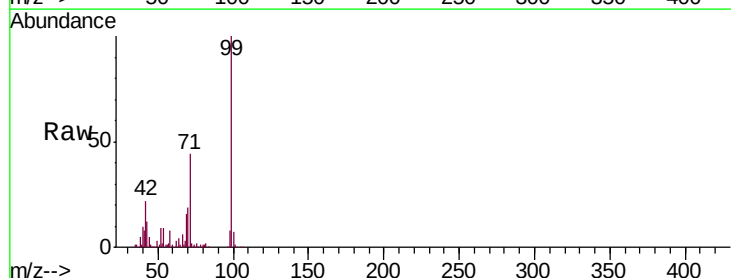
Tgt Ion: 99 Resp: 428610

Ion Ratio Lower Upper

99 100

42 22.4 17.9 26.9

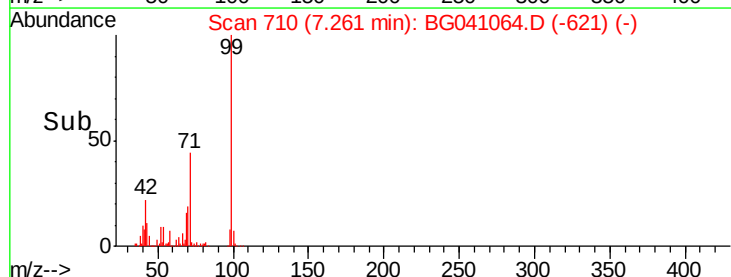
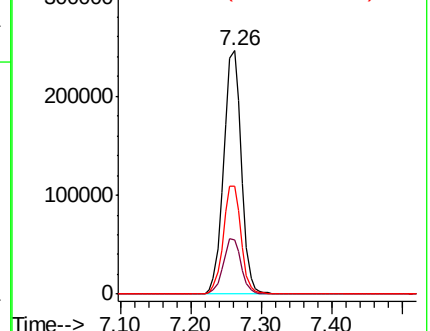
71 44.2 35.4 53.0

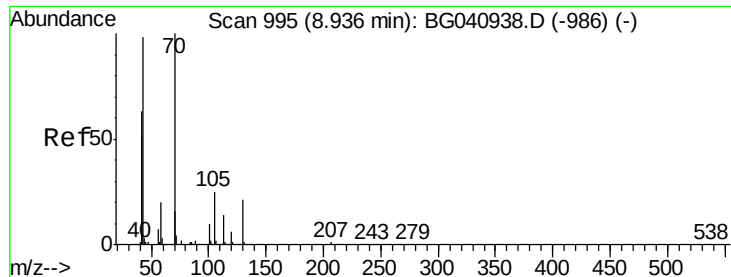


Abundance Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC

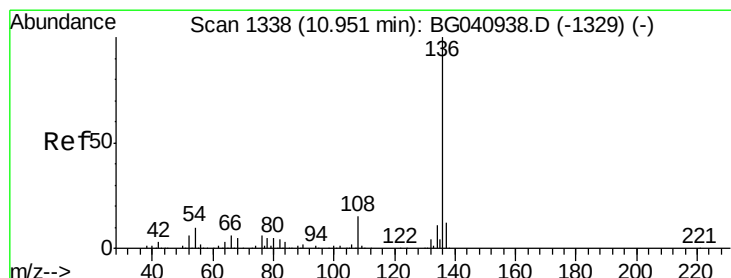
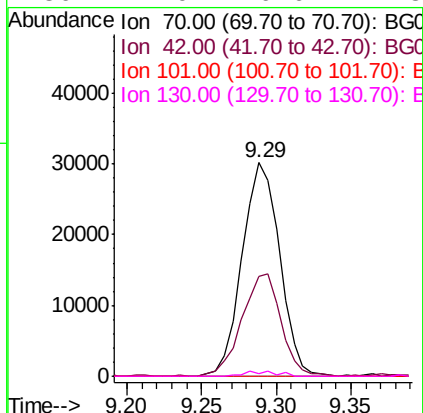
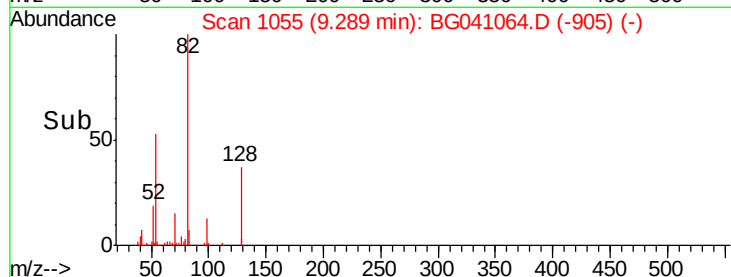
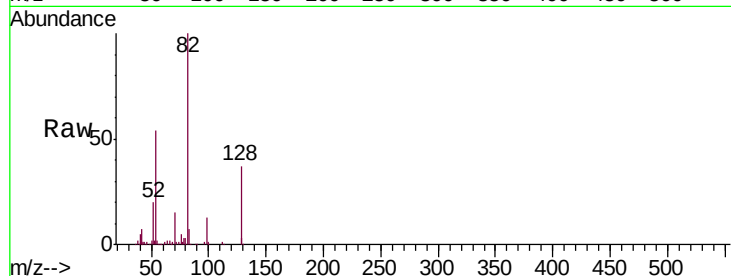




#19  
n-Nitroso-di-n-propylamine  
Concen: 8.444 ng  
RT: 9.29 min Scan# 1055  
Delta R.T. 0.35 min  
Lab File: BG041064.D  
Acq: 4 Jun 2019 18:52

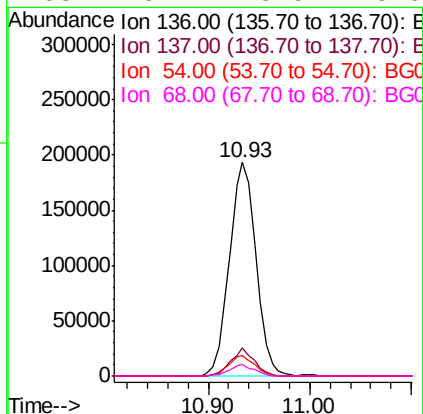
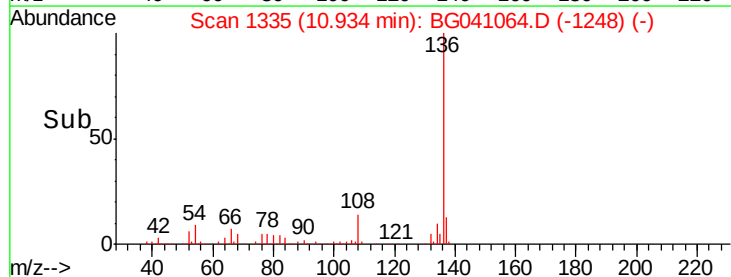
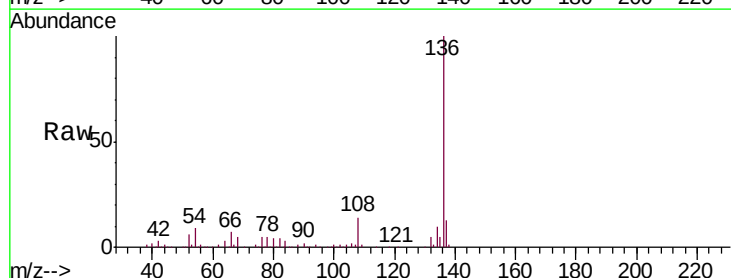
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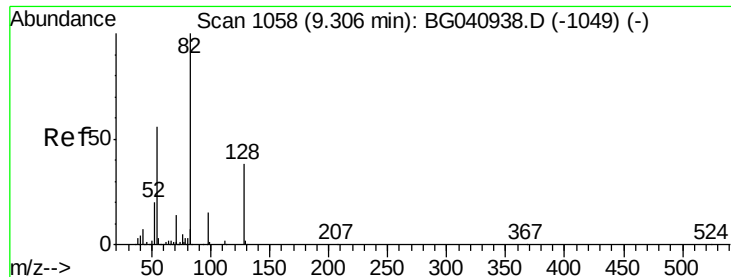
Tgt Ion: 70 Resp: 52398  
Ion Ratio Lower Upper  
70 100  
42 46.5 51.5 77.3#  
101 0.0 8.1 12.1#  
130 1.0 16.6 24.8#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.93 min Scan# 1335  
Delta R.T. -0.02 min  
Lab File: BG041064.D  
Acq: 4 Jun 2019 18:52

Tgt Ion: 136 Resp: 351214  
Ion Ratio Lower Upper  
136 100  
137 13.1 9.5 14.3  
54 9.3 7.6 11.4  
68 5.2 3.9 5.9

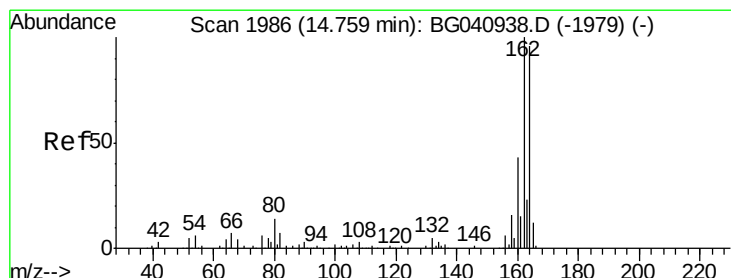
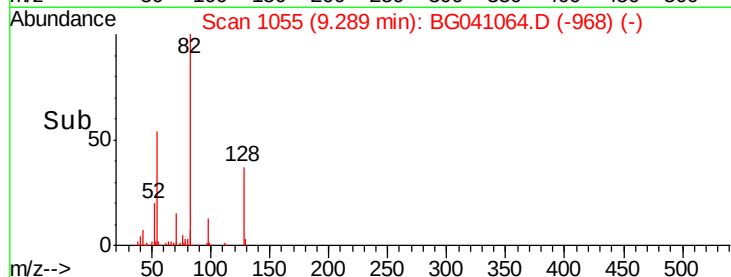
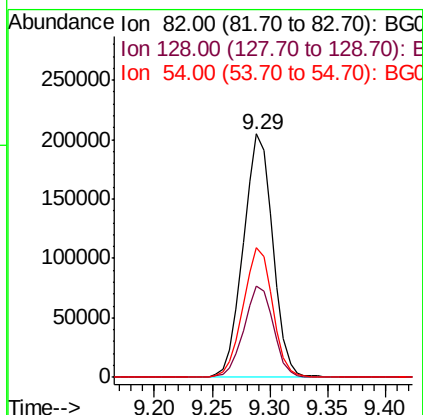
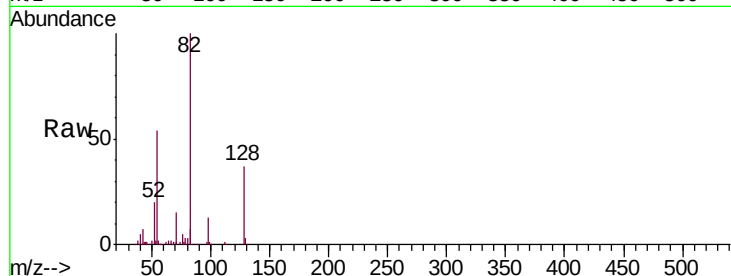




#23  
Nitrobenzene-d5  
Concen: 45.980 ng  
RT: 9.29 min Scan# 1055  
Delta R.T. -0.02 min  
Lab File: BG041064.D  
Acq: 4 Jun 2019 18:52

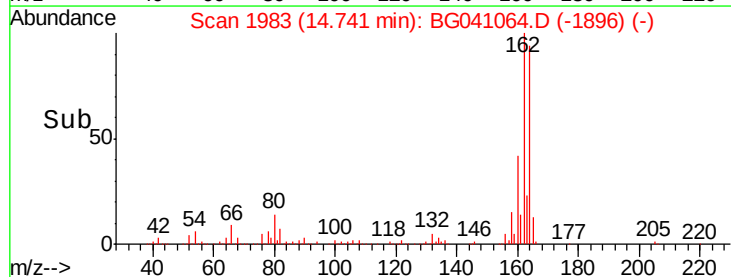
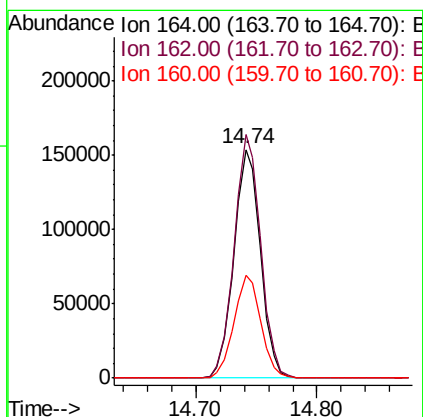
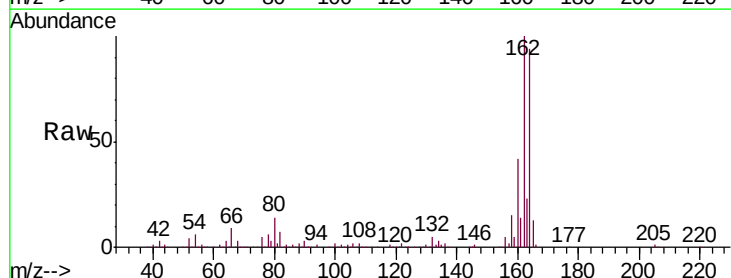
Instrument :  
BNA\_G  
ClientSampleId :  
SSSI-0523-S-TCLP-11

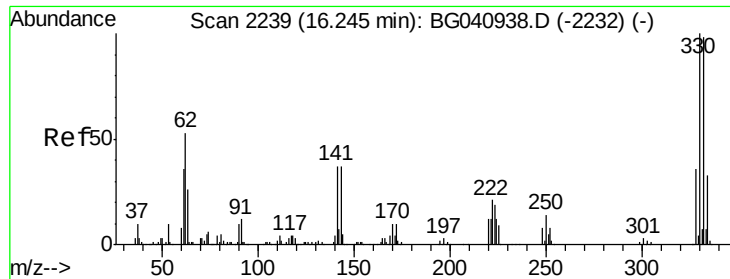
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 37.3  | 30.5  | 45.7  |
| 54      | 53.5  | 44.6  | 66.8  |



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.74 min Scan# 1983  
Delta R.T. -0.02 min  
Lab File: BG041064.D  
Acq: 4 Jun 2019 18:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 106.4 | 83.0  | 124.4 |
| 160     | 44.9  | 35.6  | 53.4  |

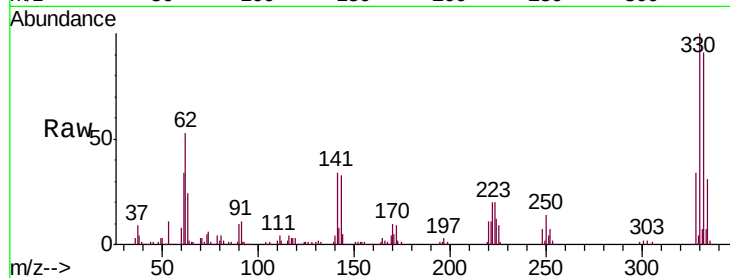




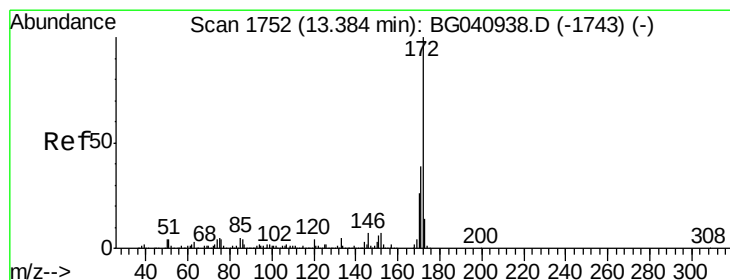
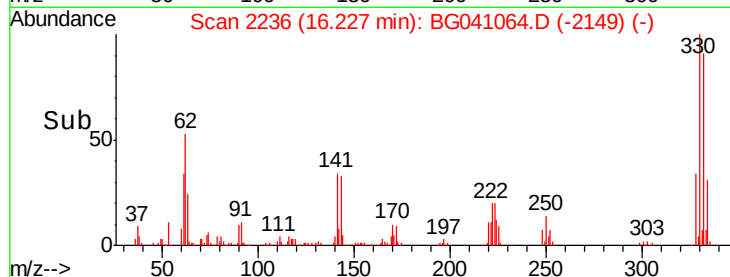
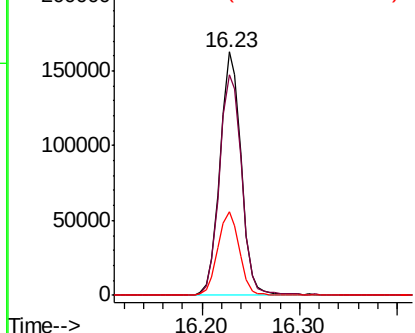
#42  
 2,4,6-Tribromophenol  
 Concen: 70.435 ng  
 RT: 16.23 min Scan# 2236  
 Delta R.T. -0.02 min  
 Lab File: BG041064.D  
 Acq: 4 Jun 2019 18:52

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSSI-0523-S-TCLP-11

Tgt Ion:330 Resp: 246062  
 Ion Ratio Lower Upper  
 330 100  
 332 95.4 78.5 117.7  
 141 34.9 28.7 43.1

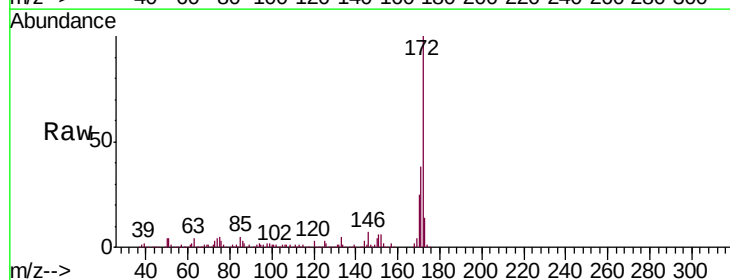


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

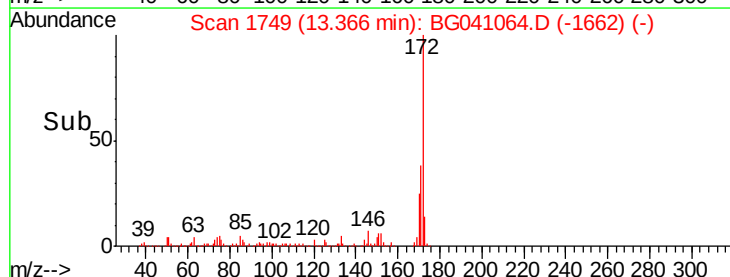
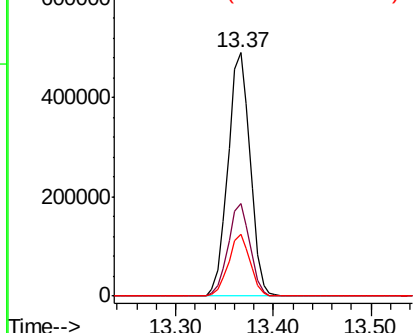


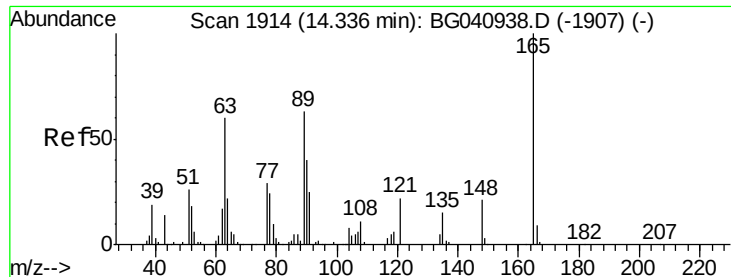
#45  
 2-Fluorobiphenyl  
 Concen: 47.306 ng  
 RT: 13.37 min Scan# 1749  
 Delta R.T. -0.02 min  
 Lab File: BG041064.D  
 Acq: 4 Jun 2019 18:52

Tgt Ion:172 Resp: 772987  
 Ion Ratio Lower Upper  
 172 100  
 171 38.0 31.1 46.7  
 170 25.4 20.5 30.7



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

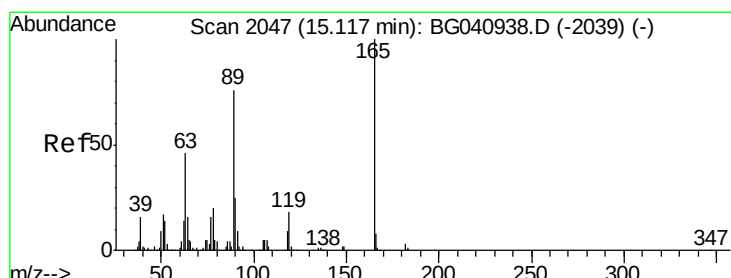
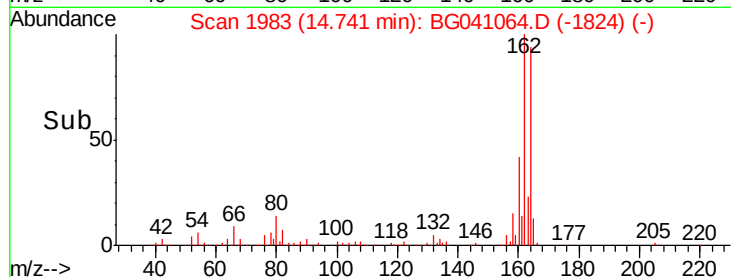
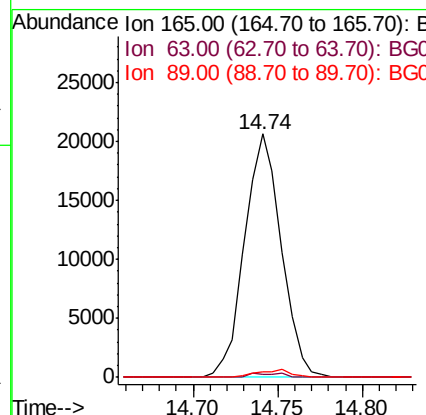
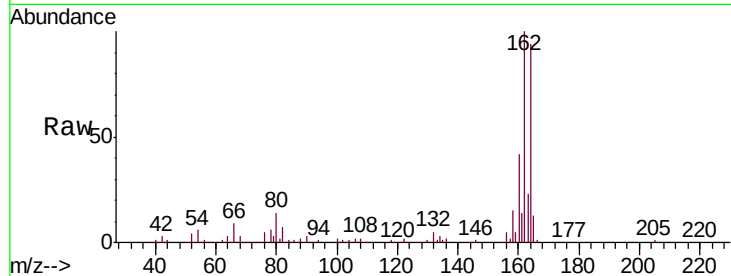




#51  
 2,6-Dinitrotoluene  
 Concen: 7.271 ng  
 RT: 14.74 min Scan# 1983  
 Delta R.T. 0.41 min  
 Lab File: BG041064.D  
 Acq: 4 Jun 2019 18:52

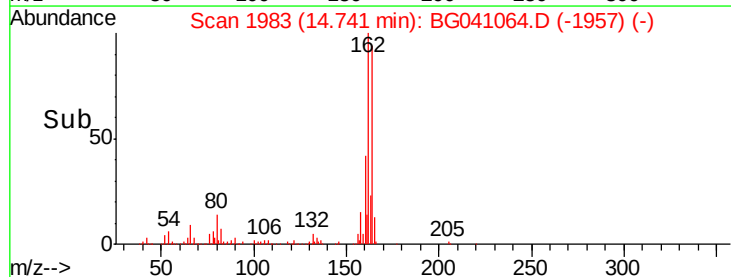
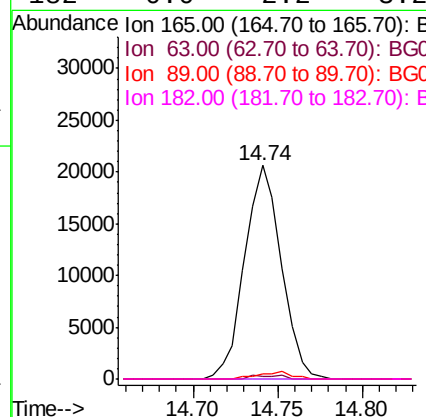
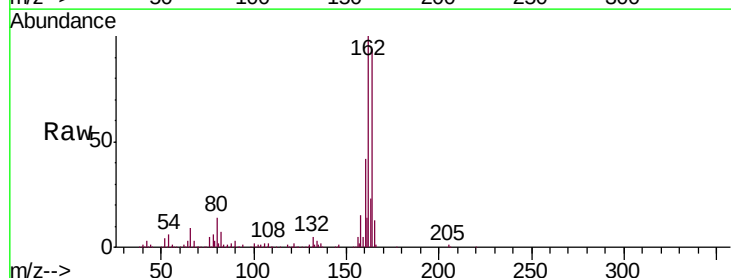
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSSI-0523-S-TCLP-11

Tgt Ion:165 Resp: 31226  
 Ion Ratio Lower Upper  
 165 100  
 63 1.1 53.6 80.4#  
 89 2.2 50.4 75.6#

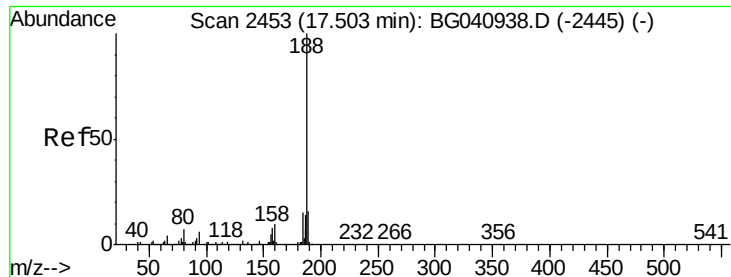


#57  
 2,4-Dinitrotoluene  
 Concen: 5.147 ng  
 RT: 14.74 min Scan# 1983  
 Delta R.T. -0.38 min  
 Lab File: BG041064.D  
 Acq: 4 Jun 2019 18:52

Tgt Ion:165 Resp: 31226  
 Ion Ratio Lower Upper  
 165 100  
 63 1.1 37.3 55.9#  
 89 2.2 61.0 91.6#  
 182 0.0 2.2 3.2#







#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.48 min Scan# 2450

Delta R.T. -0.02 min

Lab File: BG041064.D

Acq: 4 Jun 2019 18:52

Instrument :

BNA\_G

ClientSampleId :

SSSI-0523-S-TCLP-11

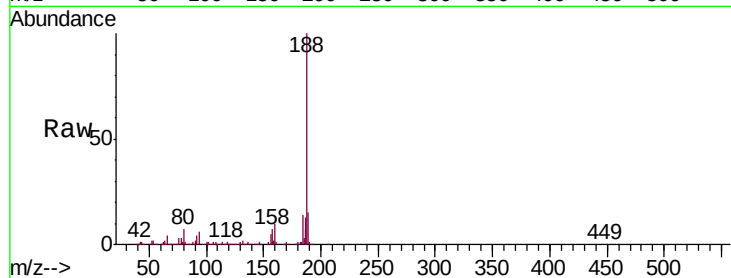
Tgt Ion:188 Resp: 597297

Ion Ratio Lower Upper

188 100

94 5.9 4.7 7.1

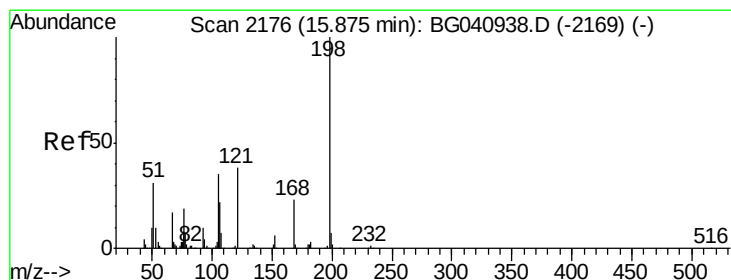
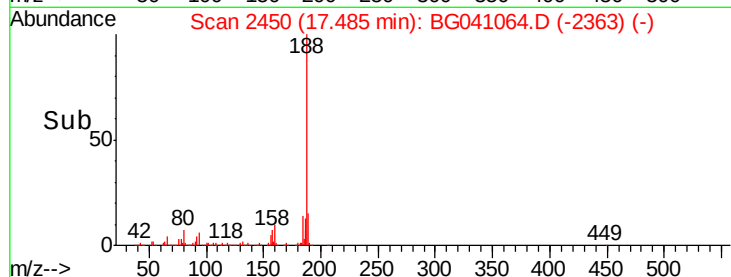
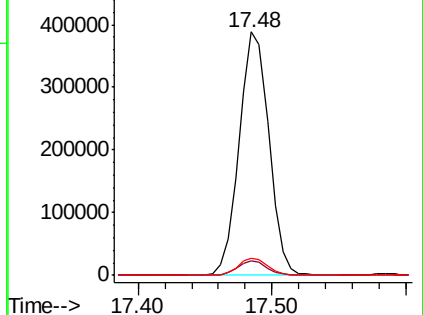
80 7.0 5.8 8.8



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: 8.772 ng

RT: 16.23 min Scan# 2236

Delta R.T. 0.35 min

Lab File: BG041064.D

Acq: 4 Jun 2019 18:52

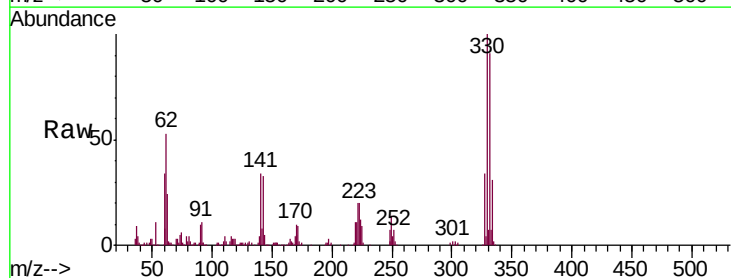
Tgt Ion:198 Resp: 711

Ion Ratio Lower Upper

198 100

51 99.9 21.6 61.6#

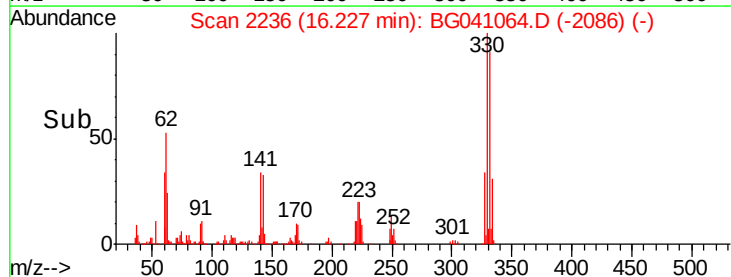
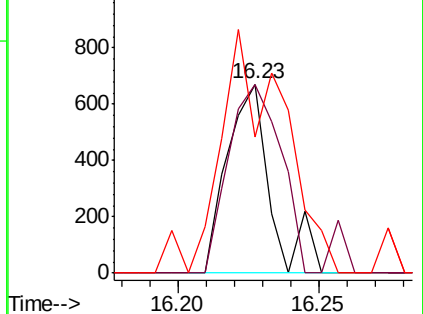
105 72.4 17.5 57.5#

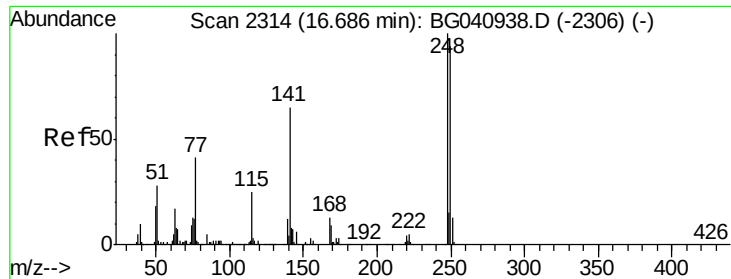


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BG

Ion 105.00 (104.70 to 105.70): E

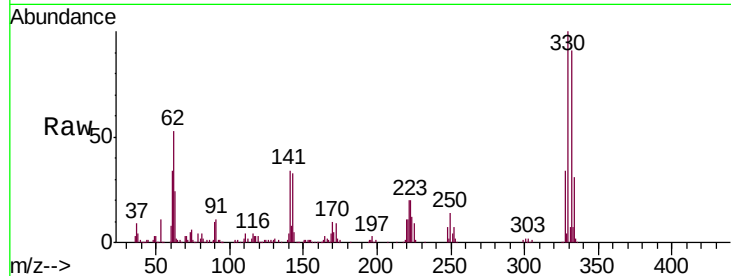




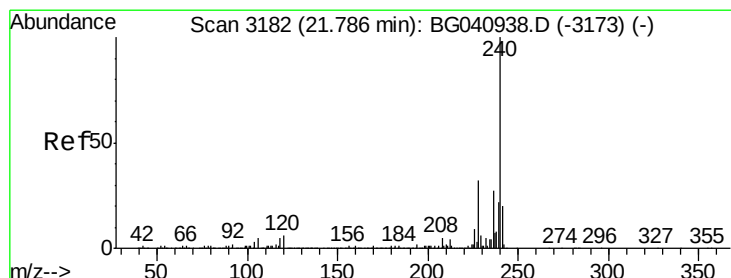
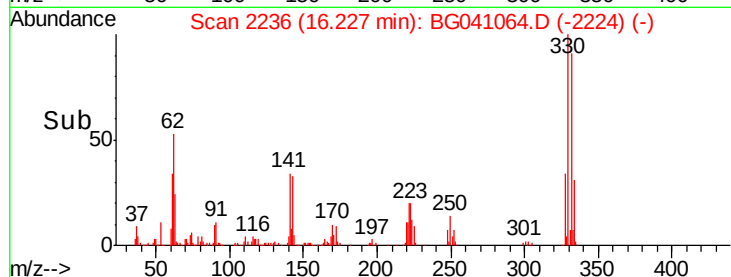
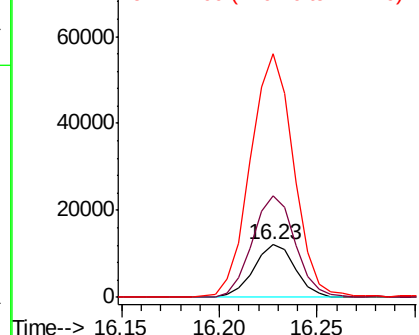
#67  
4-Bromophenyl-phenylether  
Concen: 2.223 ng  
RT: 16.23 min Scan# 2236  
Delta R.T. -0.46 min  
Lab File: BG041064.D  
Acq: 4 Jun 2019 18:52

Instrument :  
BNA\_G  
ClientSampleId :  
SSSI-0523-S-TCLP-11

Tgt Ion:248 Resp: 17922  
Ion Ratio Lower Upper  
248 100  
250 192.8 75.0 112.4#  
141 461.0 52.4 78.6#

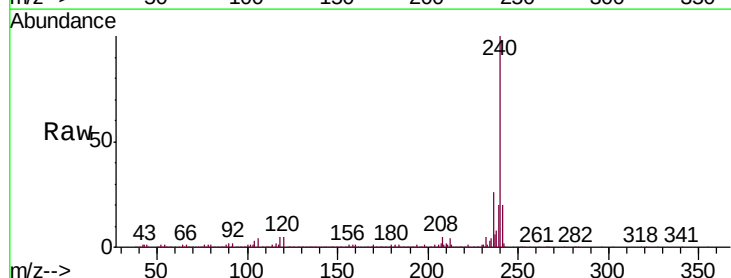


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

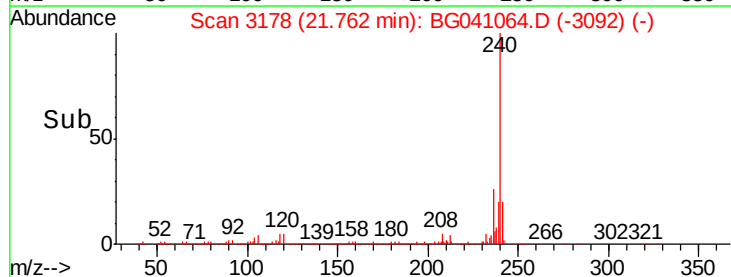
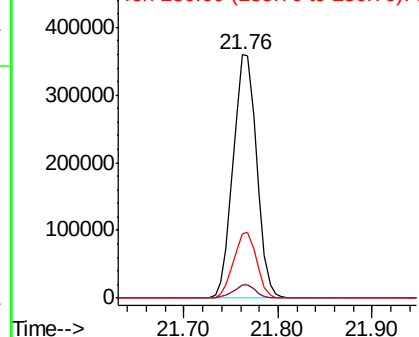


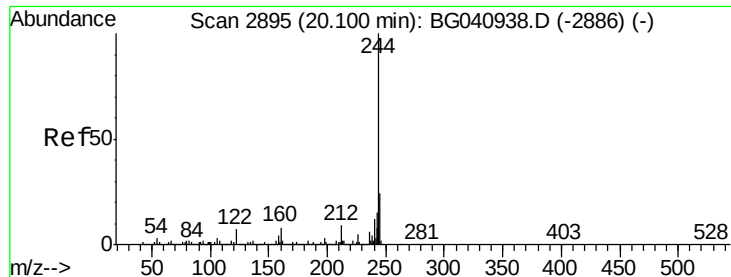
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.76 min Scan# 3178  
Delta R.T. -0.02 min  
Lab File: BG041064.D  
Acq: 4 Jun 2019 18:52

Tgt Ion:240 Resp: 629012  
Ion Ratio Lower Upper  
240 100  
120 5.2 4.5 6.7  
236 26.4 21.3 31.9



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: 47.310 ng

RT: 20.08 min Scan# 2892

Delta R.T. -0.02 min

Lab File: BG041064.D

Acq: 4 Jun 2019 18:52

Instrument :

BNA\_G

ClientSampleId :

SSSI-0523-S-TCLP-11

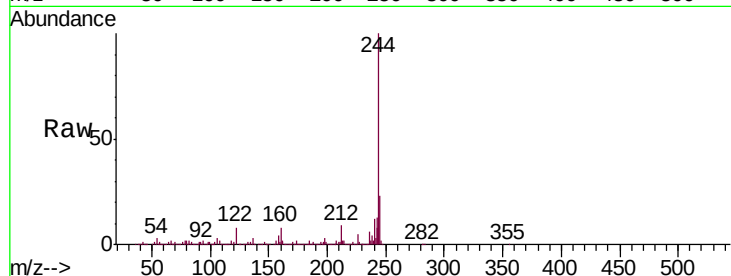
Tgt Ion:244 Resp: 1402161

Ion Ratio Lower Upper

244 100

212 8.8 7.0 10.4

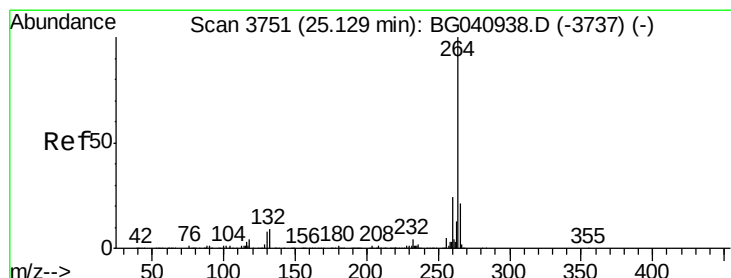
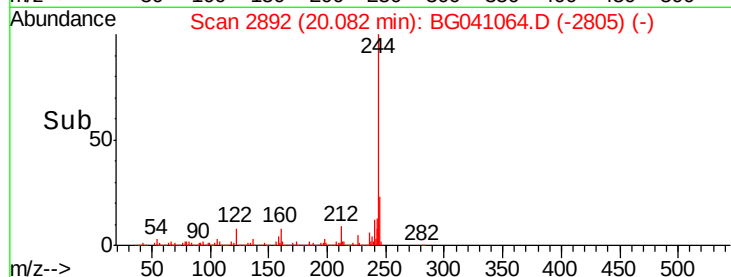
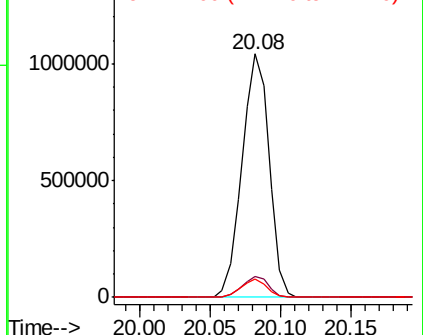
122 7.5 5.4 8.0



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

Perylene-d12

Concen: 20.000 ng

RT: 25.10 min Scan# 3746

Delta R.T. -0.03 min

Lab File: BG041064.D

Acq: 4 Jun 2019 18:52

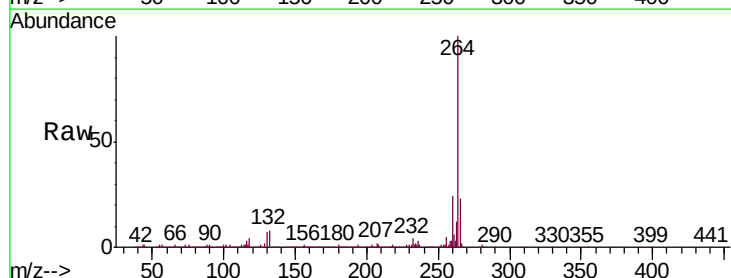
Tgt Ion:264 Resp: 687554

Ion Ratio Lower Upper

264 100

260 23.6 19.0 28.4

265 23.2 17.0 25.4



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

