

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG080618\  
 Data File : BG036133.D  
 Acq On : 6 Aug 2018 18:46  
 Operator : JU/SJ  
 Sample : J4313-10RE  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C-9

Quant Time: Aug 07 01:01:40 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG071218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 31 12:30:06 2018  
 Response via : Initial Calibration

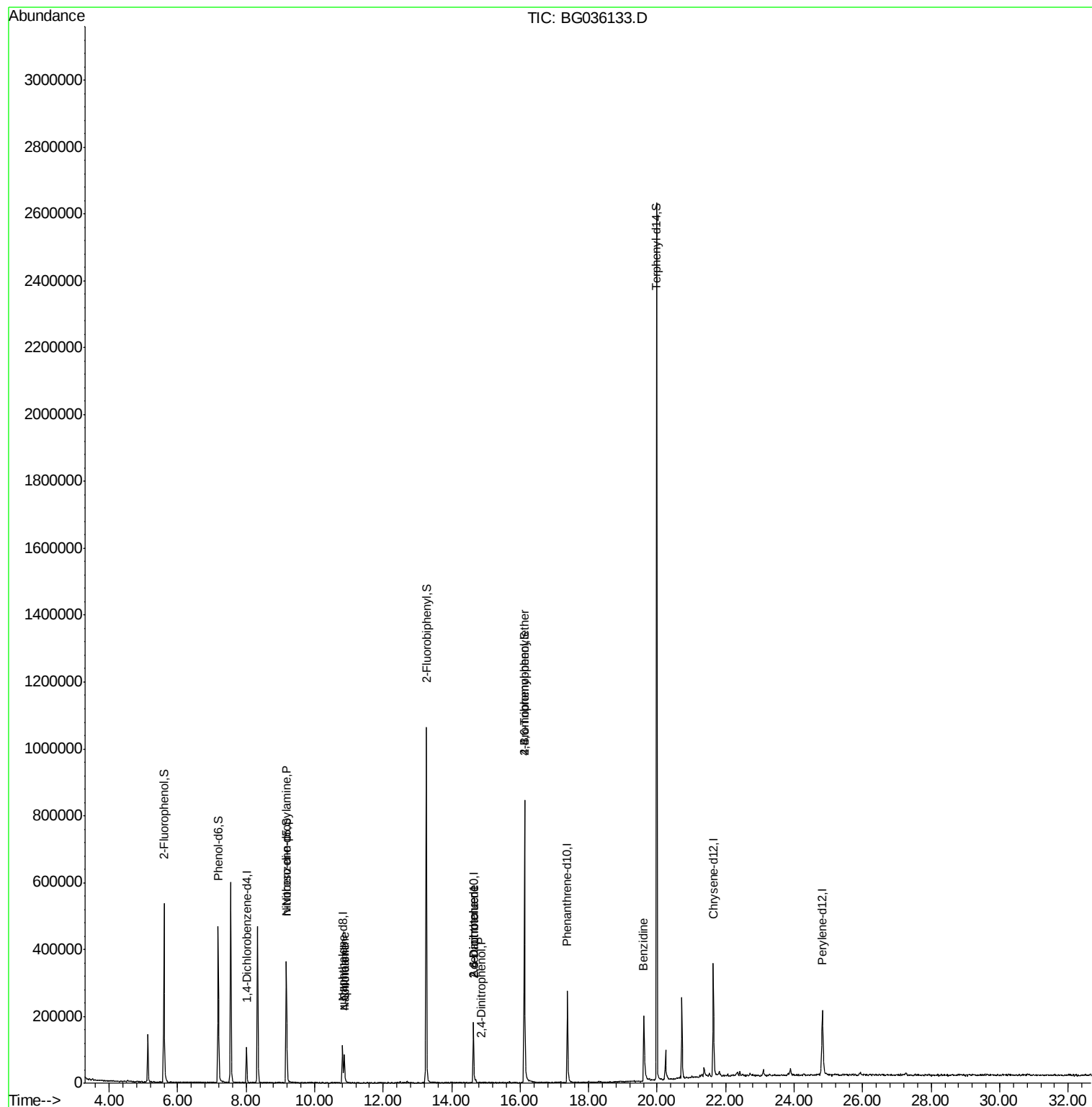
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 8.01  | 152  | 30257    | 20.00  | ng    | -0.01       |
| 21) Naphthalene-d8             | 10.81 | 136  | 102788   | 20.00  | ng    | -0.02       |
| 38) Acenaphthene-d10           | 14.63 | 164  | 70346    | 20.00  | ng    | -0.02       |
| 63) Phenanthrene-d10           | 17.38 | 188  | 208441   | 20.00  | ng    | -0.02       |
| 75) Chrysene-d12               | 21.64 | 240  | 239532   | 20.00  | ng    | -0.02       |
| 86) Perylene-d12               | 24.82 | 264  | 221556   | 20.00  | ng    | -0.04       |
| System Monitoring Compounds    |       |      |          |        |       |             |
| 5) 2-Fluorophenol              | 5.60  | 112  | 238433   | 130.83 | ng    | 0.00        |
| 7) Phenol-d6                   | 7.18  | 99   | 296073   | 108.89 | ng    | -0.01       |
| 23) Nitrobenzene-d5            | 9.17  | 82   | 265634   | 107.96 | ng    | -0.02       |
| 41) 2,4,6-Tribromophenol       | 16.12 | 330  | 181804   | 196.08 | ng    | -0.02       |
| 44) 2-Fluorobiphenyl           | 13.26 | 172  | 596174   | 113.54 | ng    | -0.02       |
| 78) Terphenyl-d14              | 19.98 | 244  | 1256731  | 115.65 | ng    | -0.02       |
| Target Compounds               |       |      |          |        |       |             |
| 19) n-Nitroso-di-n-propylamine | 9.18  | 70   | 37620    | 16.430 | ng    | Qvalue # 69 |
| 31) Naphthalene                | 10.86 | 128  | 72672    | 13.573 | ng    | # 97        |
| 33) 4-Chloroaniline            | 10.86 | 127  | 9639     | 4.130  | ng    | # 25        |
| 50) 2,6-Dinitrotoluene         | 14.63 | 165  | 9703     | 7.731  | ng    | # 22        |
| 53) 2,4-Dinitrophenol          | 14.87 | 184  | 57       | 6.663  | ng    | # 1         |
| 56) 2,4-Dinitrotoluene         | 14.63 | 165  | 9703     | 5.389  | ng    | # 20        |
| 66) 4-Bromophenyl-phenylether  | 16.12 | 248  | 15460    | 6.393  | ng    | # 1         |
| 76) Benzidine                  | 19.61 | 184  | 177265   | 28.149 | ng    | 98          |

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

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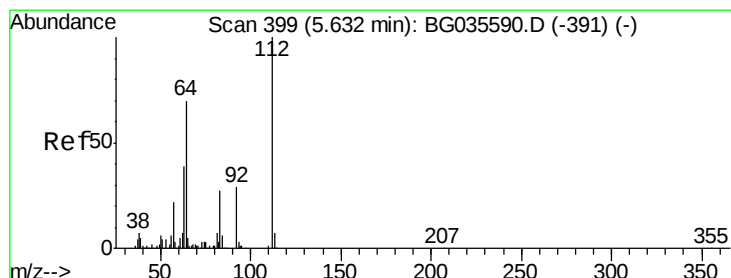
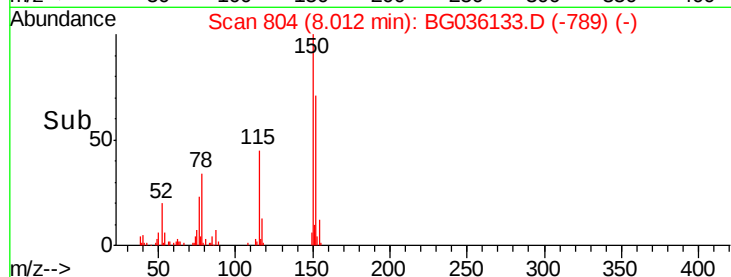
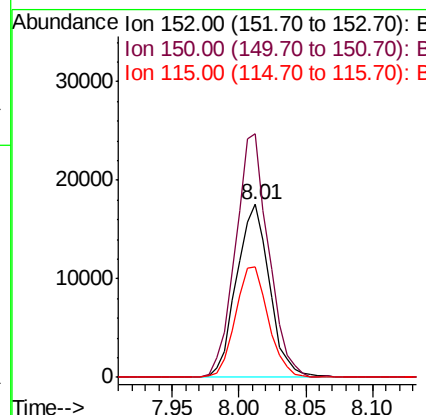
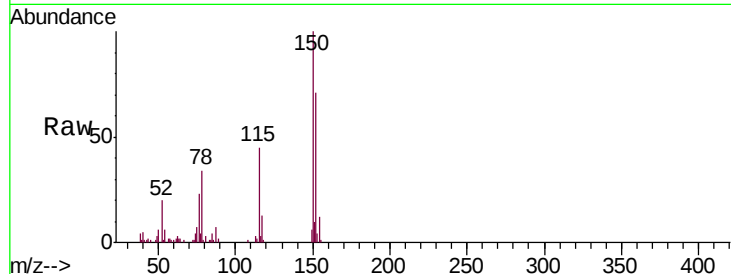


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.01 min Scan# 804  
Delta R.T. -0.01 min  
Lab File: BG036133.D  
Acq: 6 Aug 2018 18:46

Instrument :  
BNA\_G  
ClientSampleId :  
C-9

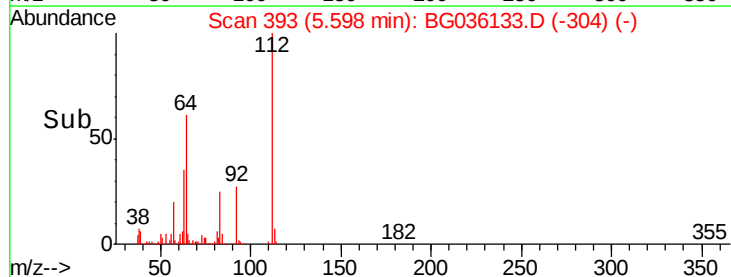
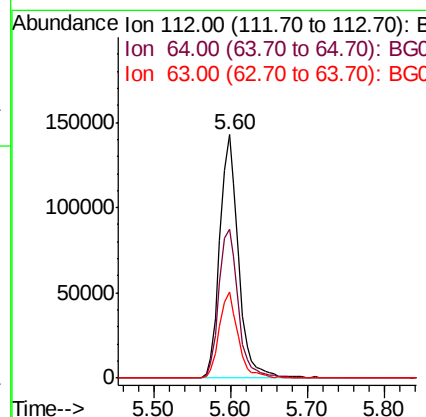
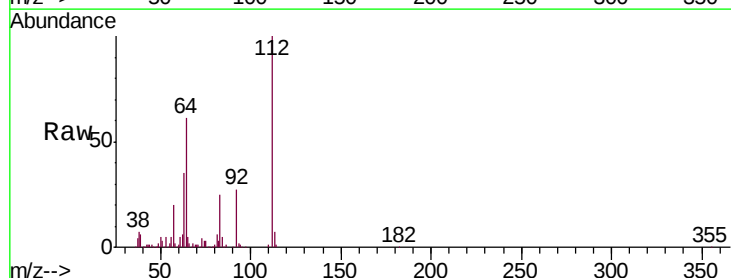
Tgt Ion:152 Resp: 30257  
Ion Ratio Lower Upper  
152 100  
150 141.0 126.6 189.8  
115 63.7 53.0 79.4

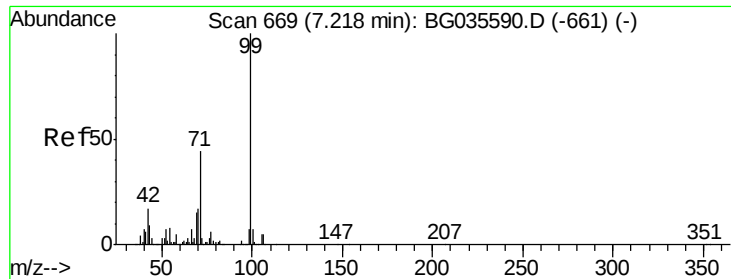


#5

2-Fluorophenol  
Concen: 130.831 ng  
RT: 5.60 min Scan# 393  
Delta R.T. -0.01 min  
Lab File: BG036133.D  
Acq: 6 Aug 2018 18:46

Tgt Ion:112 Resp: 238433  
Ion Ratio Lower Upper  
112 100  
64 61.3 56.3 84.5  
63 35.2 30.1 45.1





#7

Phenol-d6

Concen: 108.887 ng

RT: 7.18 min Scan# 663

Delta R.T. -0.01 min

Lab File: BG036133.D

Acq: 6 Aug 2018 18:46

Instrument :

BNA\_G

ClientSampleId :

C-9

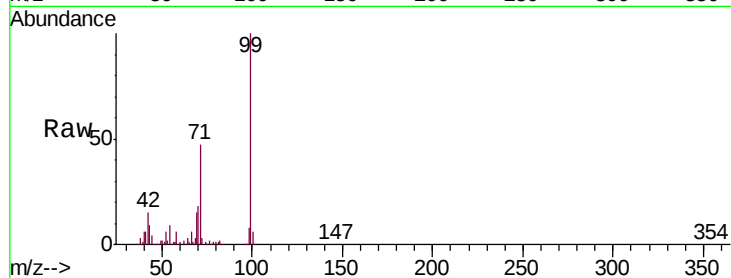
Tgt Ion: 99 Resp: 296073

Ion Ratio Lower Upper

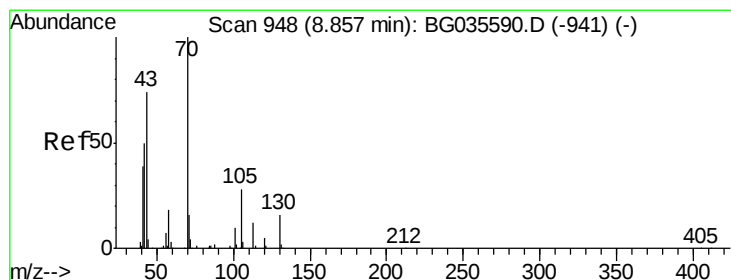
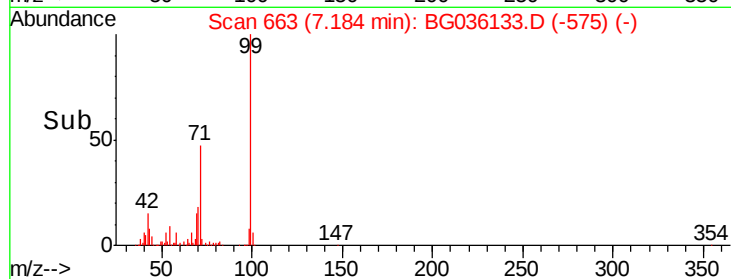
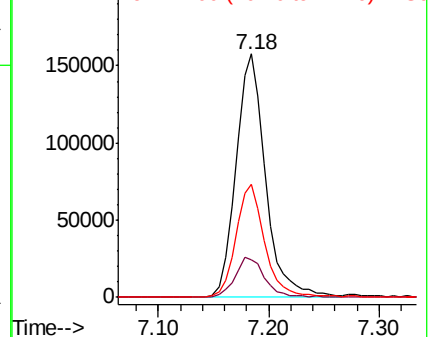
99 100

42 15.5 14.1 21.1

71 46.5 26.1 39.1#



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: 16.430 ng

RT: 9.18 min Scan# 1002

Delta R.T. 0.35 min

Lab File: BG036133.D

Acq: 6 Aug 2018 18:46

Tgt Ion: 70 Resp: 37620

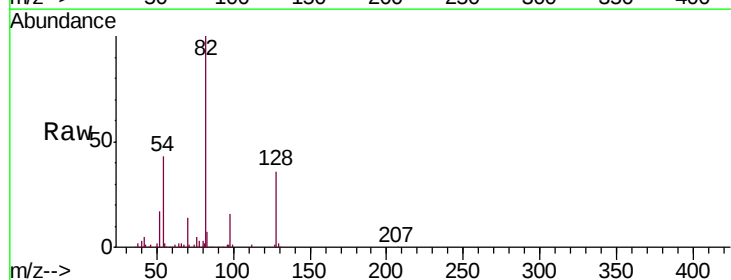
Ion Ratio Lower Upper

70 100

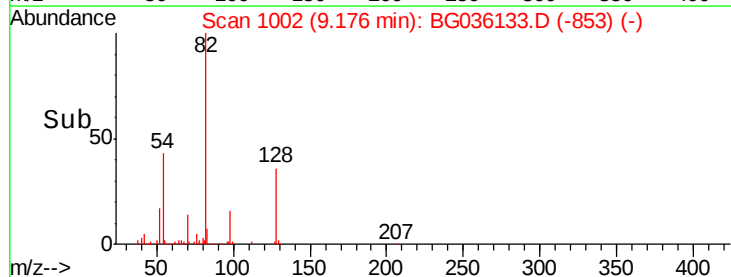
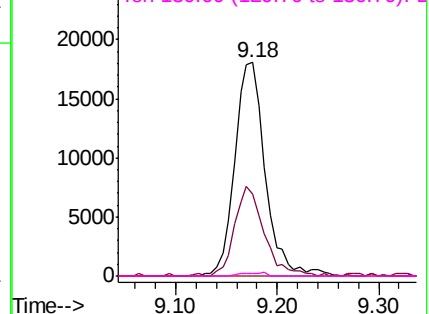
42 38.6 49.1 73.7#

101 0.0 8.5 12.7#

130 1.4 13.4 20.0#



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

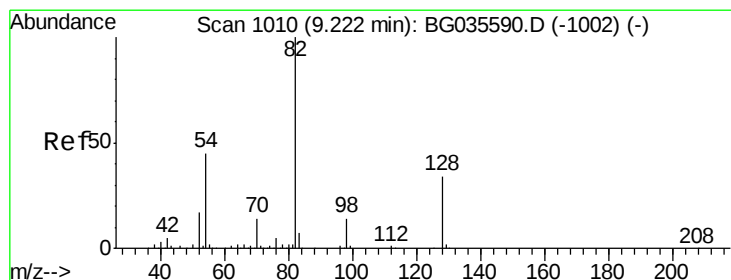
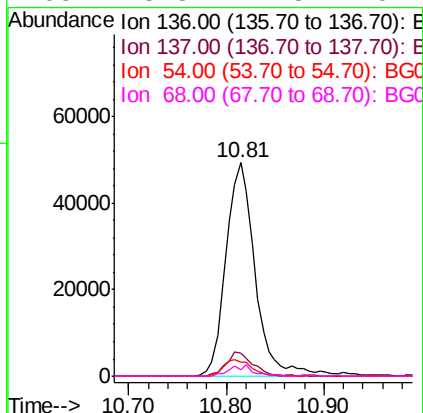
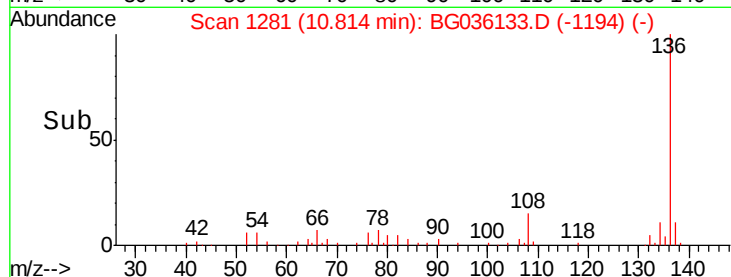
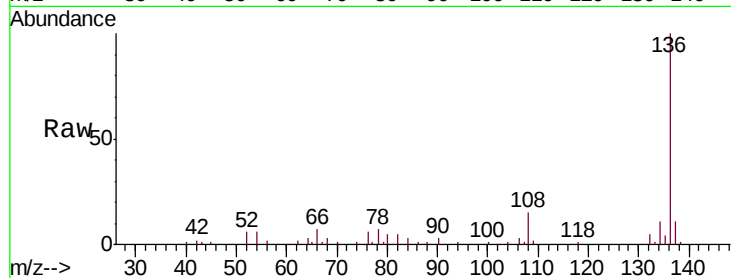




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.81 min Scan# 1281  
Delta R.T. -0.02 min  
Lab File: BG036133.D  
Acq: 6 Aug 2018 18:46

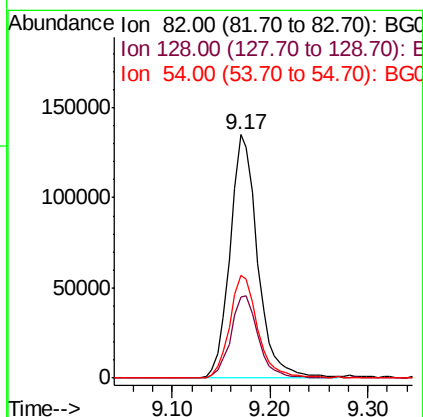
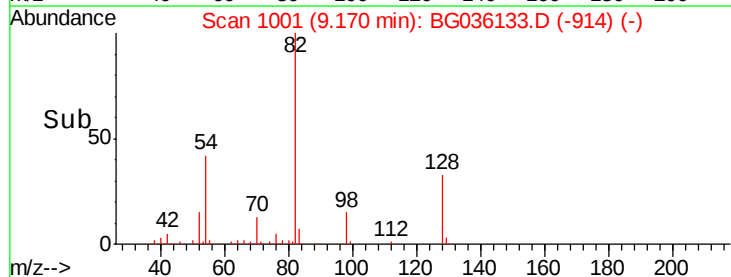
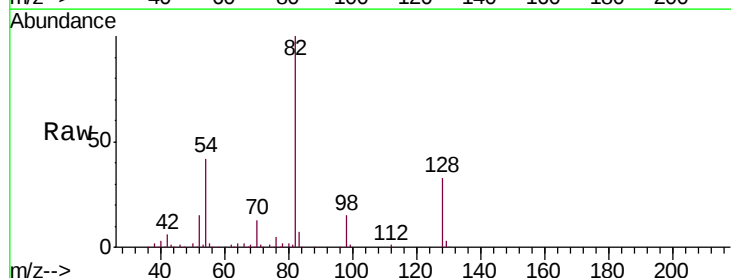
Instrument :  
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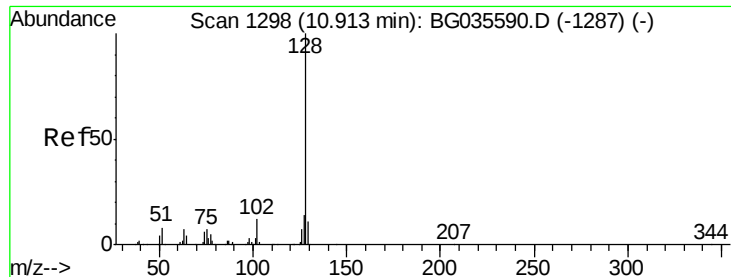
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 102788 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.6  | 9.2   | 13.8   |
| 54       | 6.4   | 10.3  | 15.5#  |
| 68       | 3.3   | 4.5   | 6.7#   |



#23  
Nitrobenzene-d5  
Concen: 107.958 ng  
RT: 9.17 min Scan# 1001  
Delta R.T. -0.02 min  
Lab File: BG036133.D  
Acq: 6 Aug 2018 18:46

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 265634 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 33.5  | 29.7  | 44.5   |
| 54       | 42.4  | 43.1  | 64.7#  |

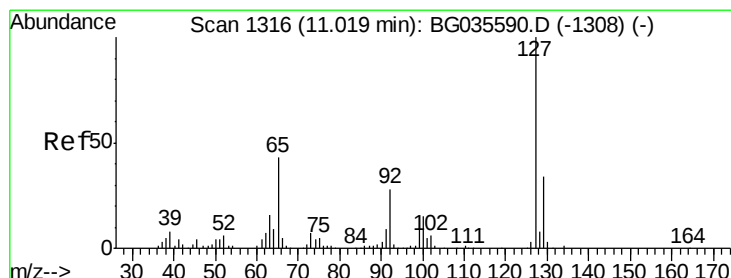
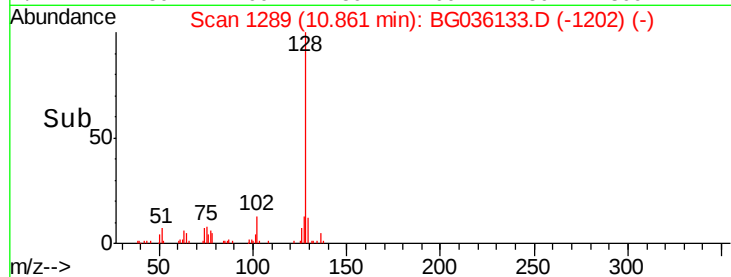
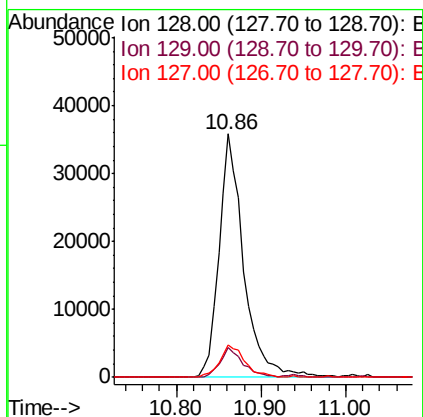
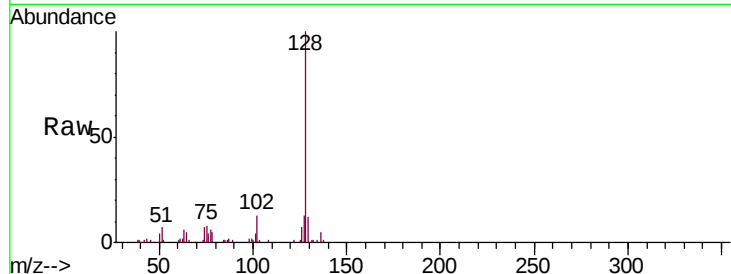




#31  
Naphthalene  
Concen: 13.573 ng  
RT: 10.86 min Scan# 1289  
Delta R.T. -0.02 min  
Lab File: BG036133.D  
Acq: 6 Aug 2018 18:46

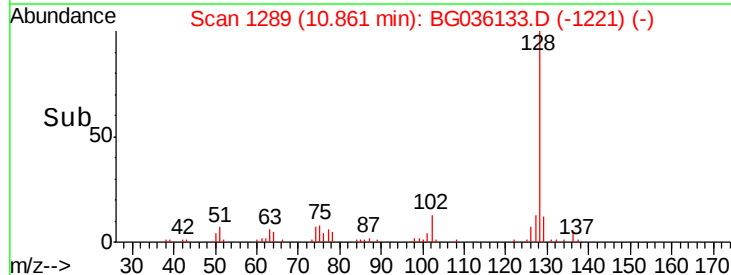
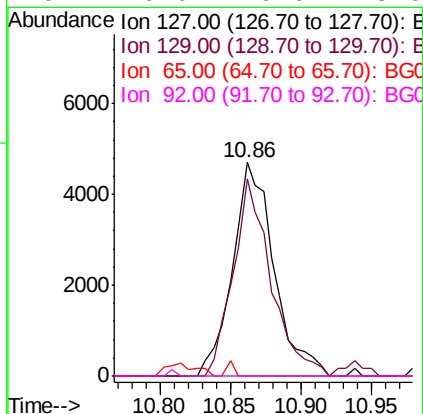
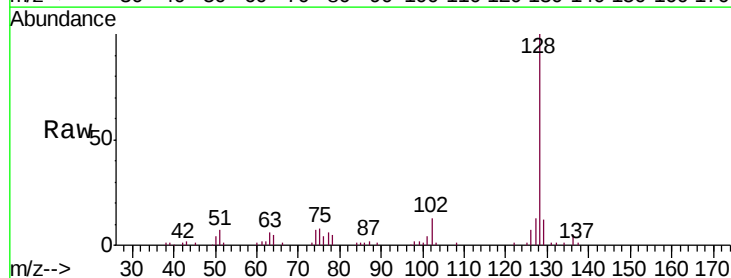
Instrument :  
BNA\_G  
ClientSampleId :  
C-9

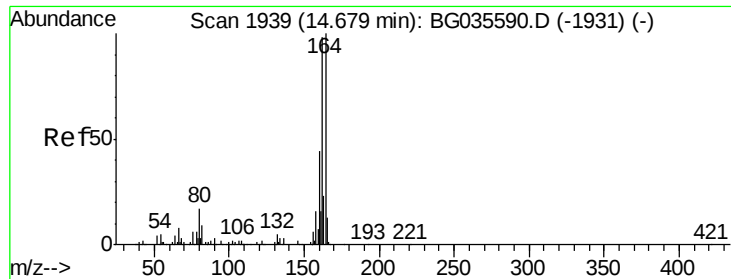
Tgt Ion:128 Resp: 72672  
Ion Ratio Lower Upper  
128 100  
129 12.1 8.6 12.8  
127 13.1 11.6 17.4



#33  
4-Chloroaniline  
Concen: 4.130 ng  
RT: 10.86 min Scan# 1289  
Delta R.T. -0.13 min  
Lab File: BG036133.D  
Acq: 6 Aug 2018 18:46

Tgt Ion:127 Resp: 9639  
Ion Ratio Lower Upper  
127 100  
129 92.2 24.0 36.0#  
65 0.0 27.0 40.4#  
92 0.0 16.6 25.0#





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.63 min Scan# 1931

Delta R.T. -0.02 min

Lab File: BG036133.D

Acq: 6 Aug 2018 18:46

Instrument :

BNA\_G

ClientSampleId :

C-9

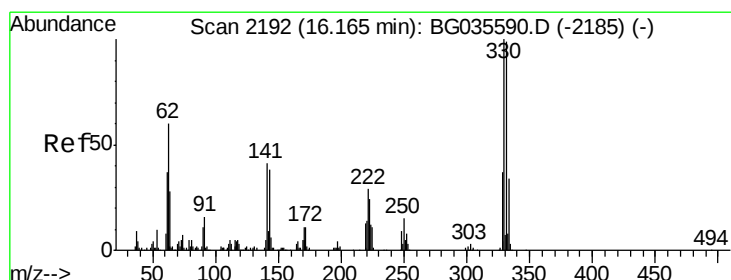
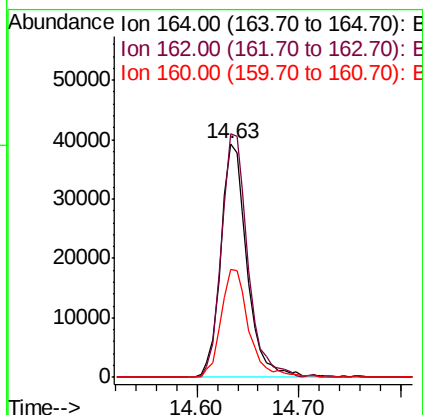
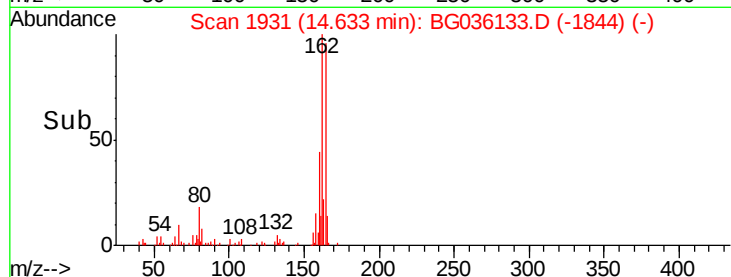
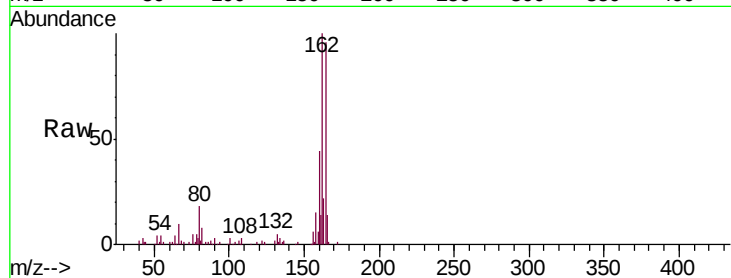
Tgt Ion:164 Resp: 70346

Ion Ratio Lower Upper

164 100

162 104.1 78.8 118.2

160 46.2 35.4 53.0



#41

2,4,6-Tribromophenol

Concen: 196.077 ng

RT: 16.12 min Scan# 2185

Delta R.T. -0.02 min

Lab File: BG036133.D

Acq: 6 Aug 2018 18:46

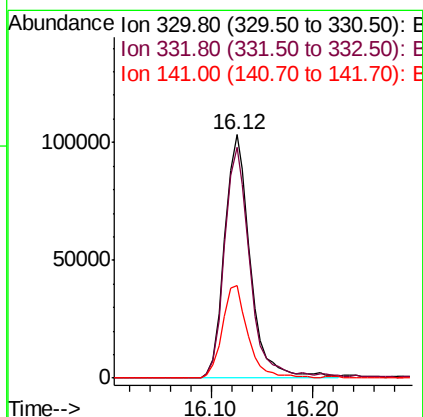
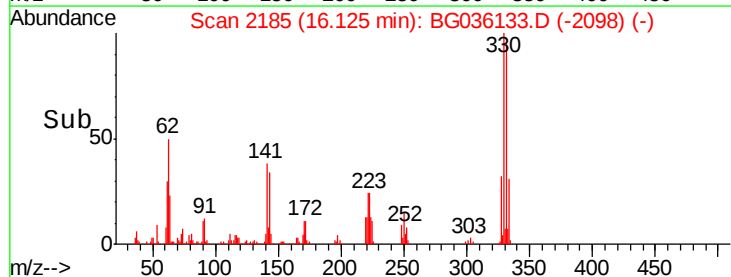
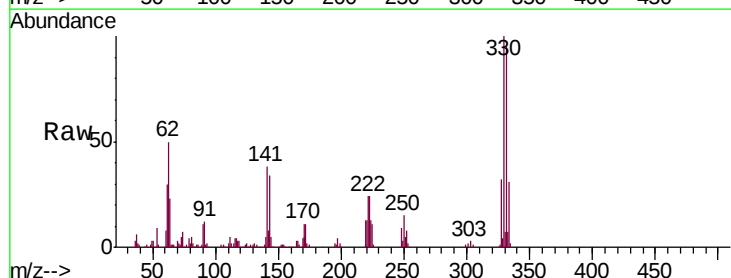
Tgt Ion:330 Resp: 181804

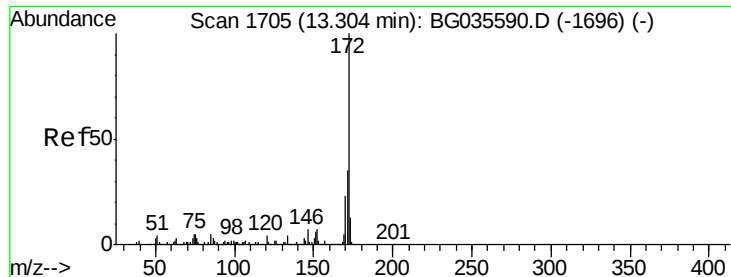
Ion Ratio Lower Upper

330 100

332 93.4 77.0 115.6

141 38.1 25.2 37.8#

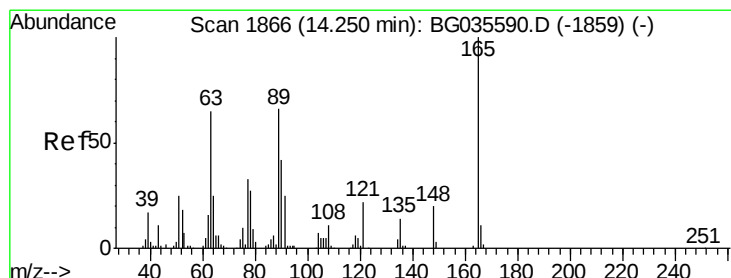
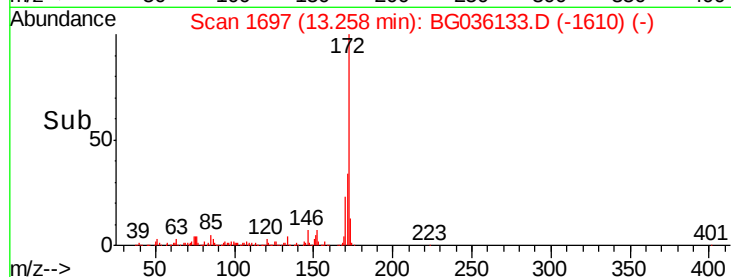
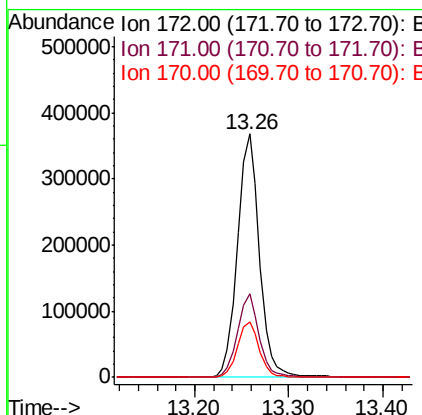
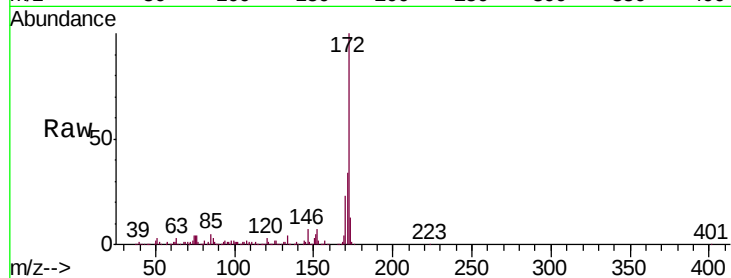




#44  
 2-Fluorobiphenyl  
 Concen: 113.541 ng  
 RT: 13.26 min Scan# 1697  
 Delta R.T. -0.02 min  
 Lab File: BG036133.D  
 Acq: 6 Aug 2018 18:46

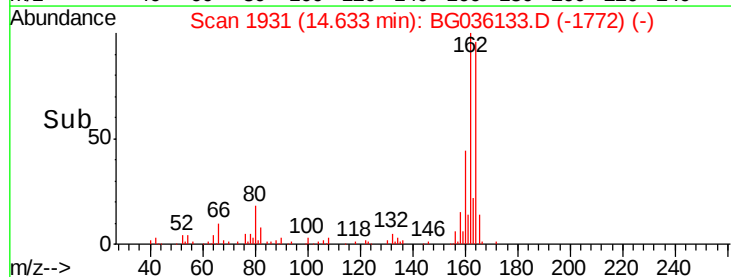
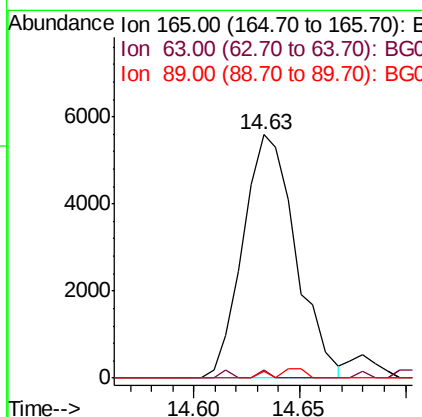
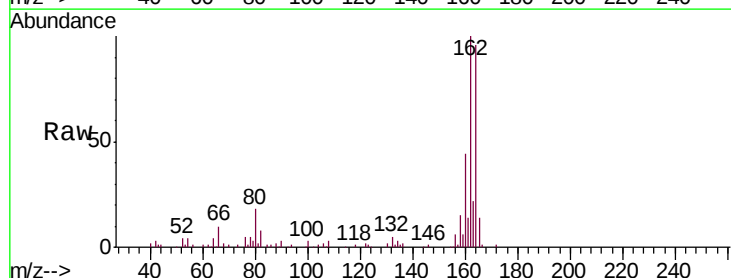
Instrument :  
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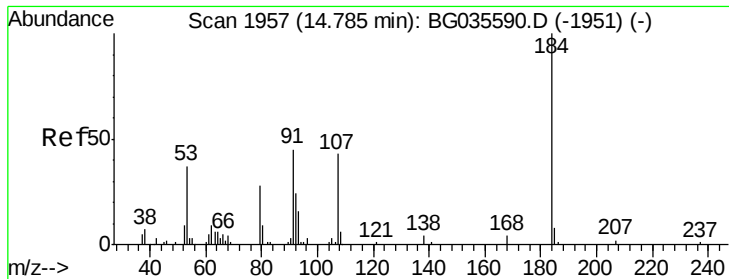
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.4  | 30.0  | 45.0  |
| 170     | 22.8  | 19.5  | 29.3  |



#50  
 2,6-Dinitrotoluene  
 Concen: 7.731 ng  
 RT: 14.63 min Scan# 1931  
 Delta R.T. 0.41 min  
 Lab File: BG036133.D  
 Acq: 6 Aug 2018 18:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 3.5   | 52.7  | 79.1# |
| 89      | 2.9   | 49.2  | 73.8# |

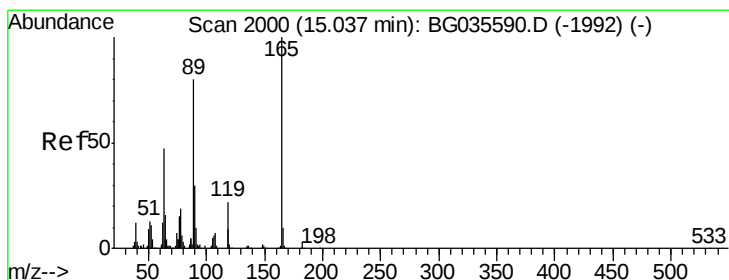
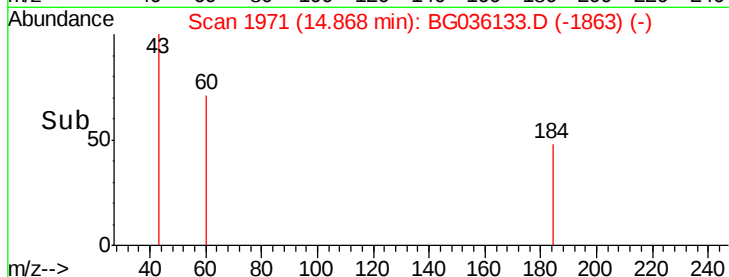
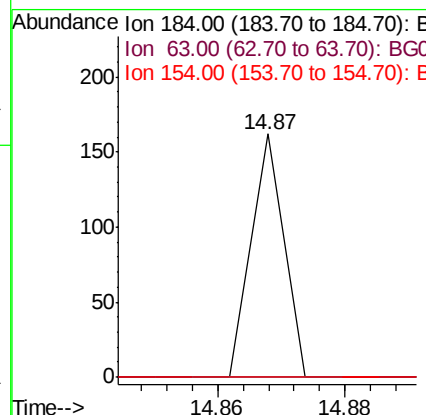
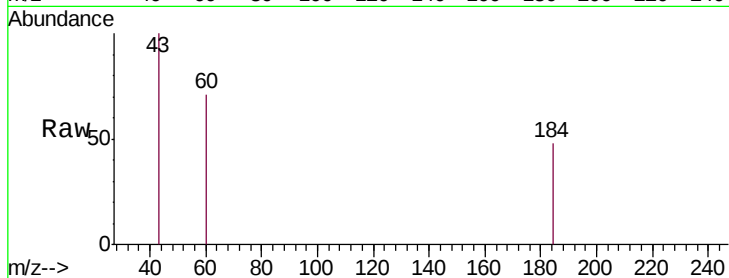




#53  
 2,4-Dinitrophenol  
 Concen: 6.663 ng  
 RT: 14.87 min Scan# 1971  
 Delta R.T. 0.11 min  
 Lab File: BG036133.D  
 Acq: 6 Aug 2018 18:46

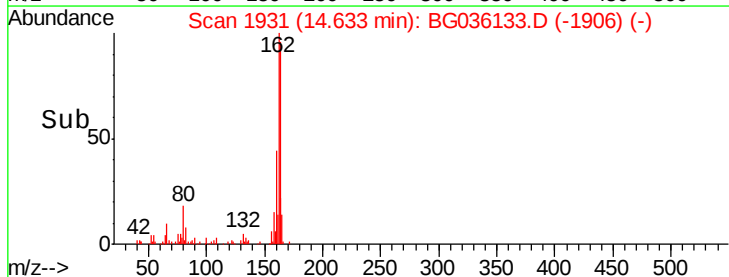
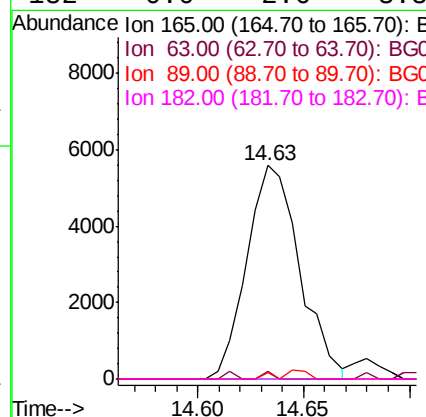
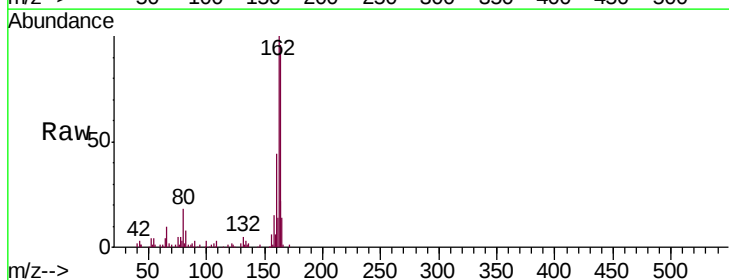
Instrument :  
 BNA\_G  
 ClientSampleId :  
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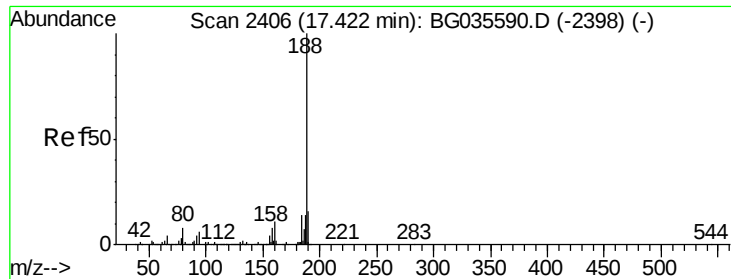
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 Ion Ratio Lower Upper  
 184 100  
 63 0.0 59.8 89.8#  
 154 0.0 101.8 152.8#



#56  
 2,4-Dinitrotoluene  
 Concen: 5.389 ng  
 RT: 14.63 min Scan# 1931  
 Delta R.T. -0.38 min  
 Lab File: BG036133.D  
 Acq: 6 Aug 2018 18:46

Tgt Ion:165 Resp: 9703  
 Ion Ratio Lower Upper  
 165 100  
 63 3.5 42.0 63.0#  
 89 2.9 66.9 100.3#  
 182 0.0 2.6 3.8#

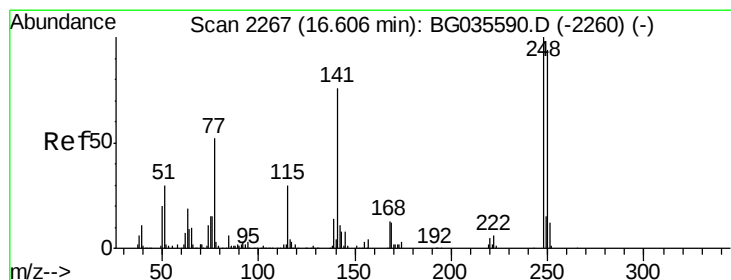
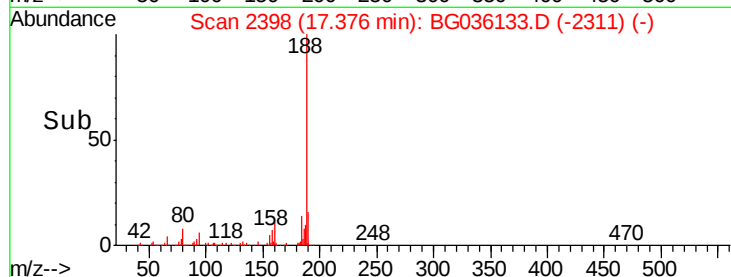
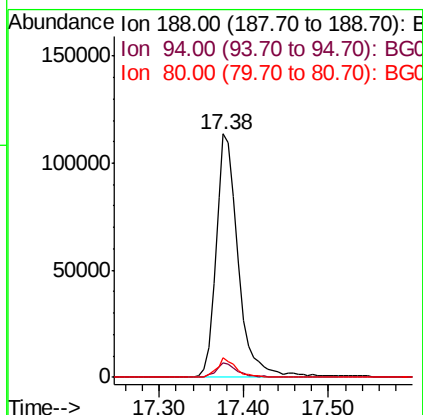
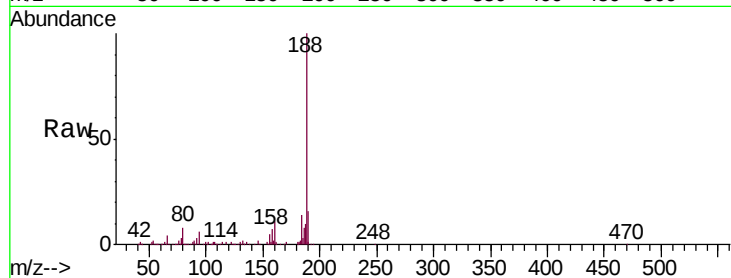




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.38 min Scan# 2398  
Delta R.T. -0.02 min  
Lab File: BG036133.D  
Acq: 6 Aug 2018 18:46

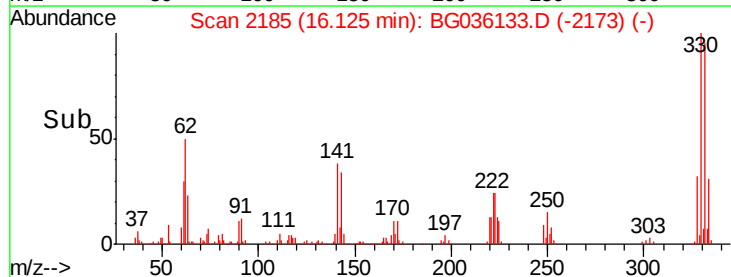
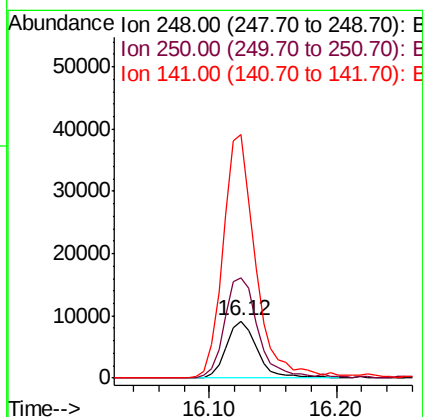
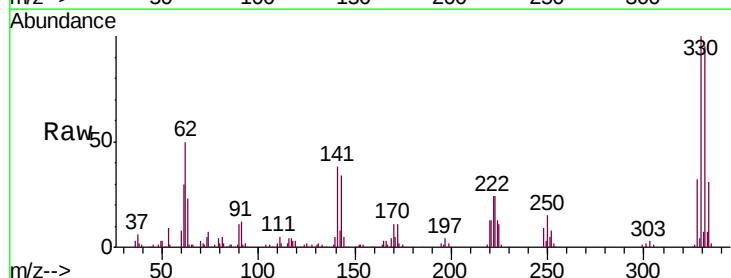
Instrument :  
BNA\_G  
ClientSampleId :  
C-9

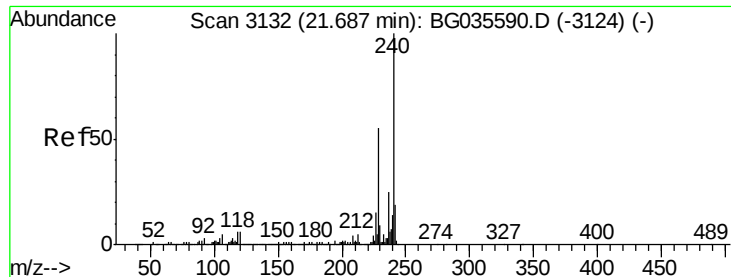
Tgt Ion:188 Resp: 208441  
Ion Ratio Lower Upper  
188 100  
94 5.9 6.9 10.3#  
80 7.8 7.7 11.5



#66  
4-Bromophenyl-phenylether  
Concen: 6.393 ng  
RT: 16.12 min Scan# 2185  
Delta R.T. -0.46 min  
Lab File: BG036133.D  
Acq: 6 Aug 2018 18:46

Tgt Ion:248 Resp: 15460  
Ion Ratio Lower Upper  
248 100  
250 175.1 77.1 115.7#  
141 427.7 50.8 76.2#





#75

Chrysene-d12

Concen: 20.000 ng

RT: 21.64 min Scan# 3124

Delta R.T. -0.02 min

Lab File: BG036133.D

Acq: 6 Aug 2018 18:46

Instrument :

BNA\_G

ClientSampleId :

C-9

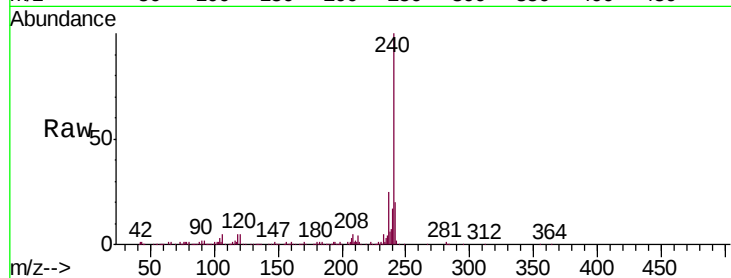
Tgt Ion:240 Resp: 239532

Ion Ratio Lower Upper

240 100

120 5.3 6.8 10.2#

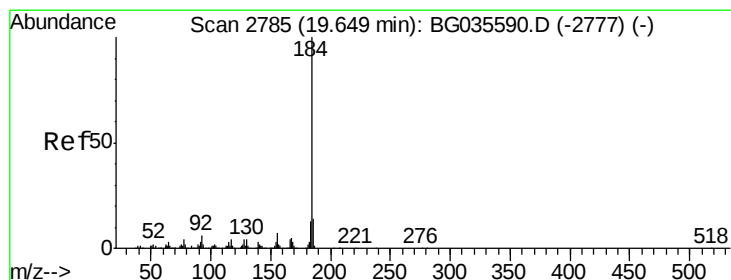
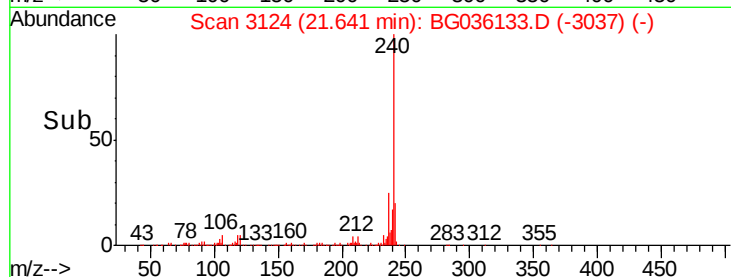
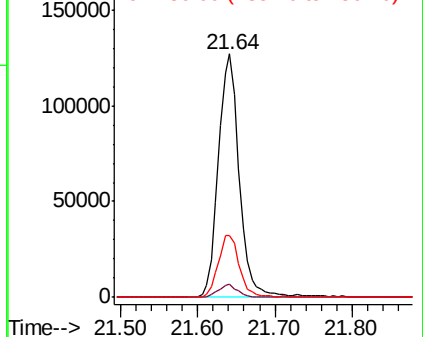
236 25.4 20.9 31.3



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: 28.149 ng

RT: 19.61 min Scan# 2778

Delta R.T. -0.02 min

Lab File: BG036133.D

Acq: 6 Aug 2018 18:46

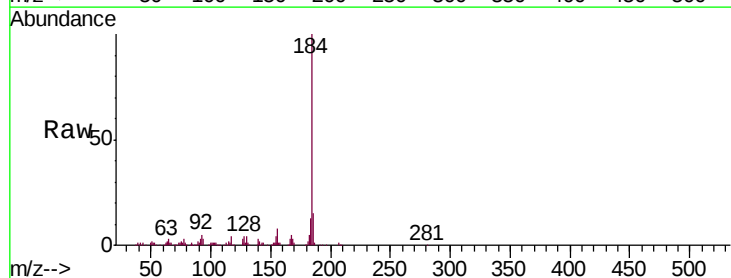
Tgt Ion:184 Resp: 177265

Ion Ratio Lower Upper

184 100

185 15.0 11.1 16.7

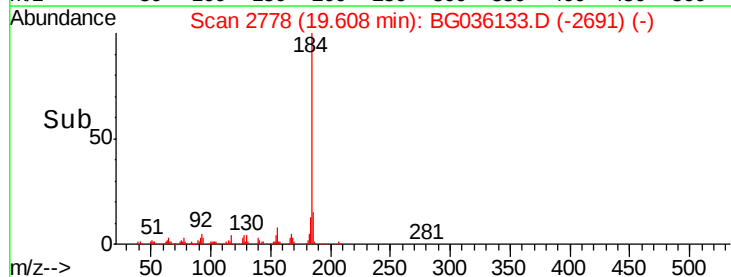
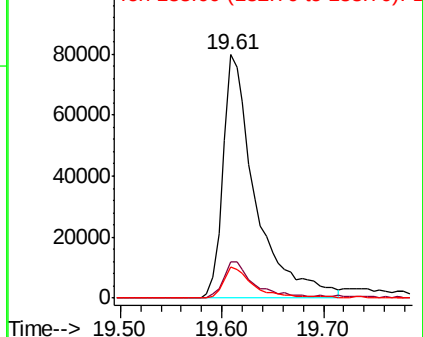
183 12.8 10.6 16.0

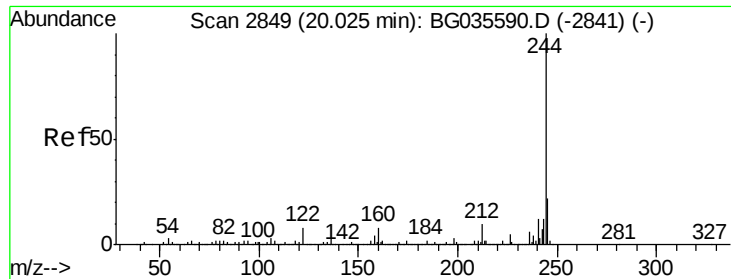


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Terphenyl-d14

Concen: 115.651 ng

RT: 19.98 min Scan# 2842

Delta R.T. -0.02 min

Lab File: BG036133.D

Acq: 6 Aug 2018 18:46

Instrument :

BNA\_G

ClientSampleId :

C-9

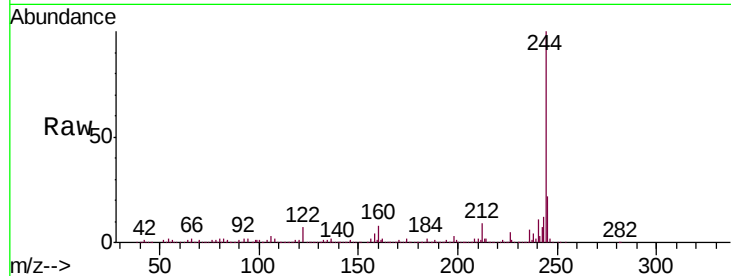
Tgt Ion:244 Resp: 1256731

Ion Ratio Lower Upper

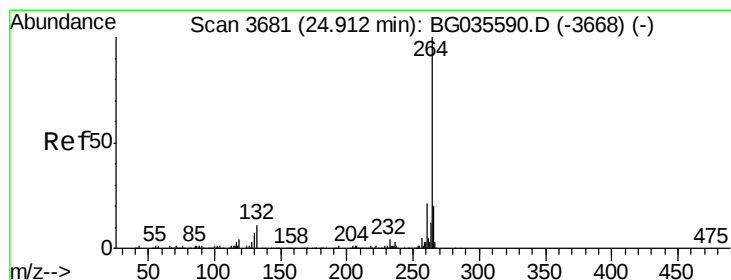
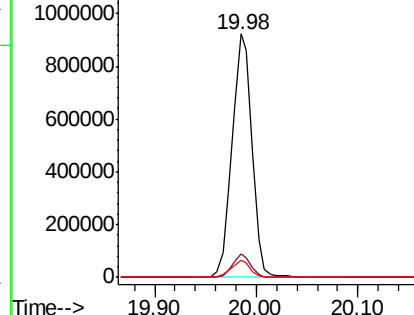
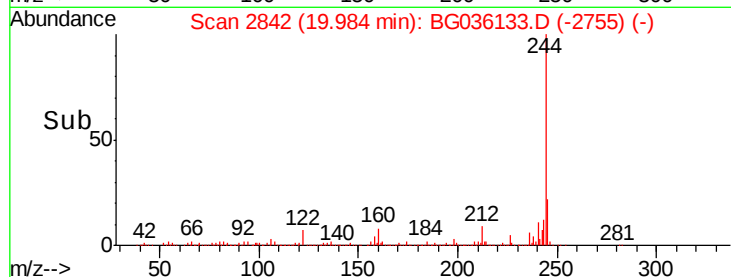
244 100

212 9.4 5.8 8.8#

122 6.9 7.0 10.4#



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.82 min Scan# 3666

Delta R.T. -0.04 min

Lab File: BG036133.D

Acq: 6 Aug 2018 18:46

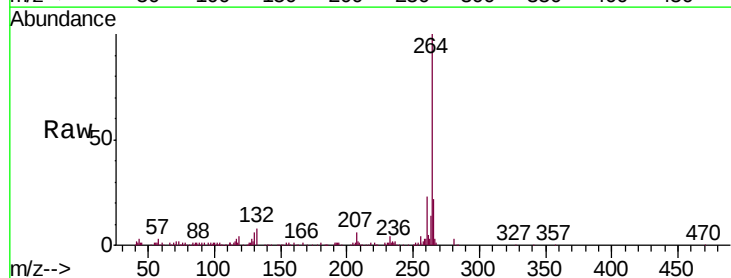
Tgt Ion:264 Resp: 221556

Ion Ratio Lower Upper

264 100

260 22.8 17.4 26.0

265 22.4 17.7 26.5



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

