

Data Path : Z:\HPCHEM1\BNA G\DATA\BG042018\  
 Data File : BG033911.D  
 Acq On : 21 Apr 2018 8:13  
 Operator : SJ/JU  
 Sample : J2473-14  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 041818-SIDW-F-U-B

Quant Time: Apr 23 03:13:18 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Apr 19 13:56:22 2018  
 Response via : Initial Calibration

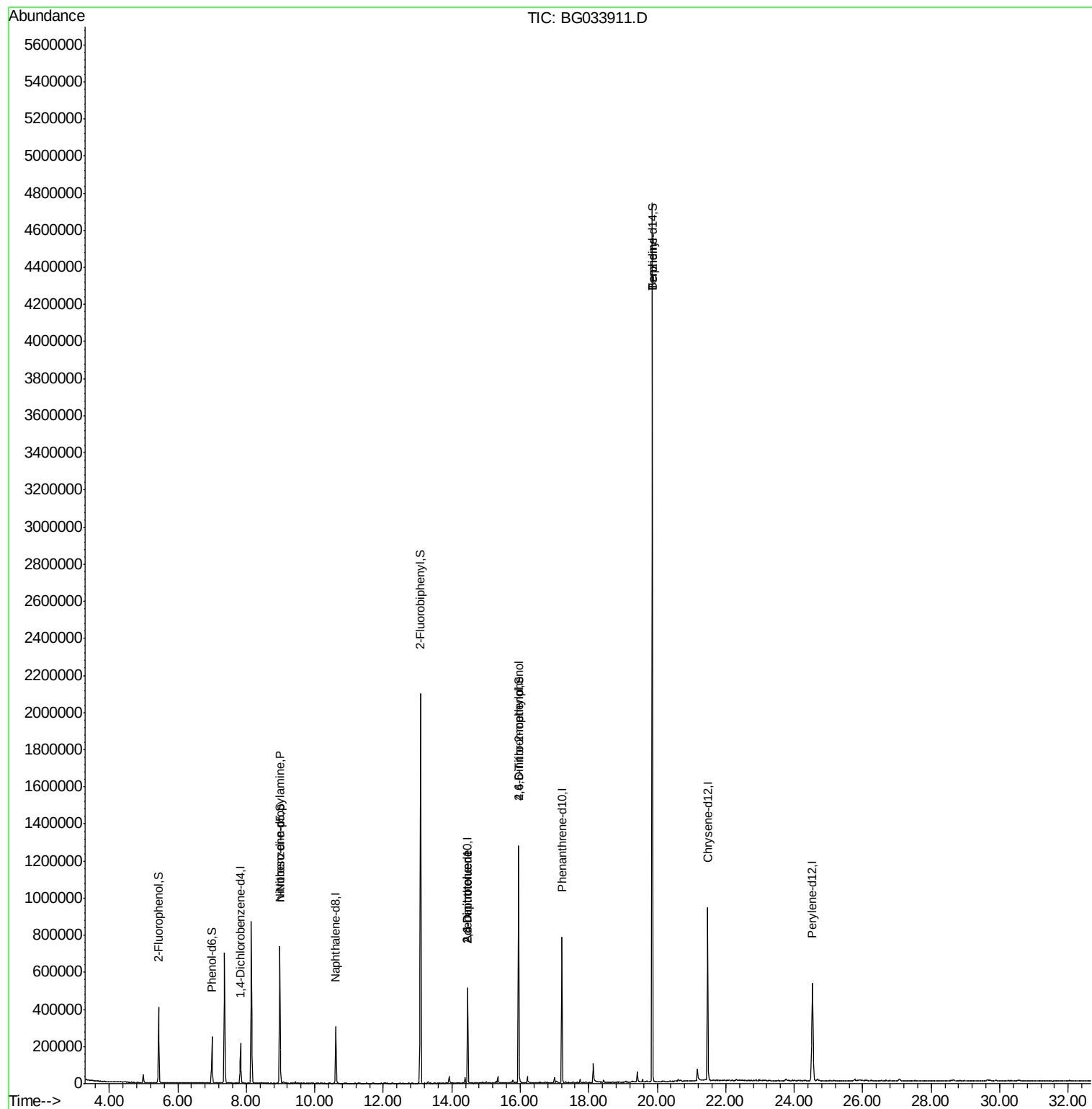
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.83  | 152  | 61020    | 20.00     | ng     | 0.00     |
| 21) Naphthalene-d8             | 10.61 | 136  | 256212   | 20.00     | ng     | -0.01    |
| 38) Acenaphthene-d10           | 14.46 | 164  | 171123   | 20.00     | ng     | -0.01    |
| 63) Phenanthrene-d10           | 17.21 | 188  | 477243   | 20.00     | ng     | -0.01    |
| 75) Chrysene-d12               | 21.47 | 240  | 539145   | 20.00     | ng     | -0.02    |
| 86) Perylene-d12               | 24.53 | 264  | 544409   | 20.00     | ng     | -0.03    |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 5) 2-Fluorophenol              | 5.44  | 112  | 167600   | 43.85     | ng     | 0.00     |
| 7) Phenol-d6                   | 6.99  | 99   | 137389   | 24.65     | ng     | 0.00     |
| 23) Nitrobenzene-d5            | 8.98  | 82   | 441357   | 98.03     | ng     | 0.00     |
| 41) 2,4,6-Tribromophenol       | 15.95 | 330  | 232090   | 116.25    | ng     | -0.01    |
| 44) 2-Fluorobiphenyl           | 13.09 | 172  | 1090423  | 93.61     | ng     | -0.01    |
| 78) Terphenyl-d14              | 19.86 | 244  | 2172053  | 90.51     | ng     | 0.00     |
| Target Compounds               |       |      |          |           |        |          |
| 9) Benzaldehyde                | 7.00  | 77   | 140      | Below Cal | Qvalue |          |
| 19) n-Nitroso-di-n-propylamine | 8.98  | 70   | 60934    | 12.823 ng | #      | 5        |
| 50) 2,6-Dinitrotoluene         | 14.46 | 165  | 22267    | 7.806 ng  | #      | 78       |
| 56) 2,4-Dinitrotoluene         | 14.46 | 165  | 22267    | 5.870 ng  | #      | 20       |
| 64) 4,6-Dinitro-2-methylphenol | 15.95 | 198  | 662      | 6.738 ng  | #      | 18       |
| 76) Benzidine                  | 19.86 | 184  | 36561    | 2.511 ng  | #      | 75       |
|                                |       |      |          |           | #      | 90       |

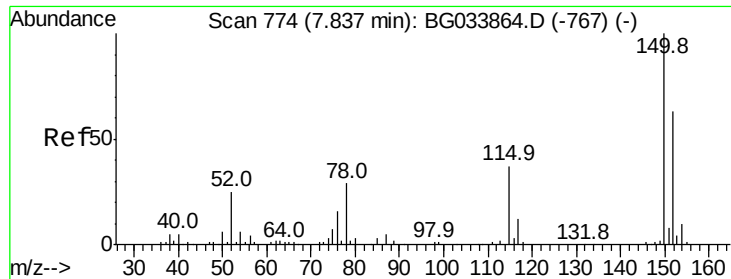
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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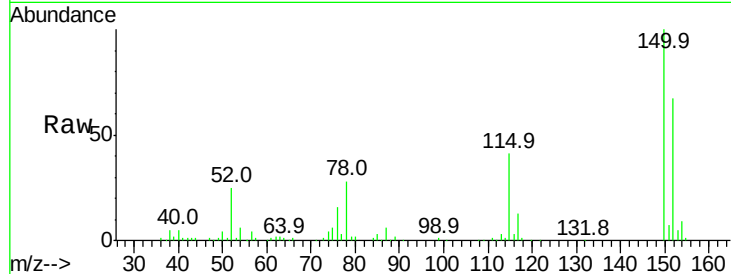


#1

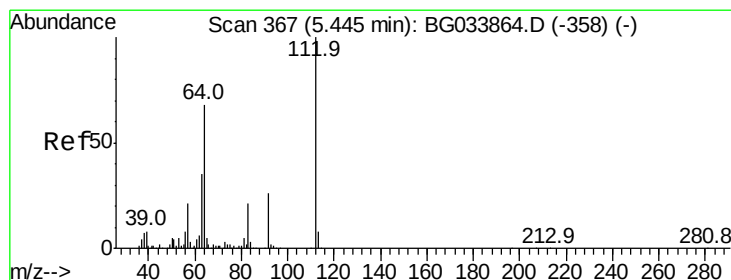
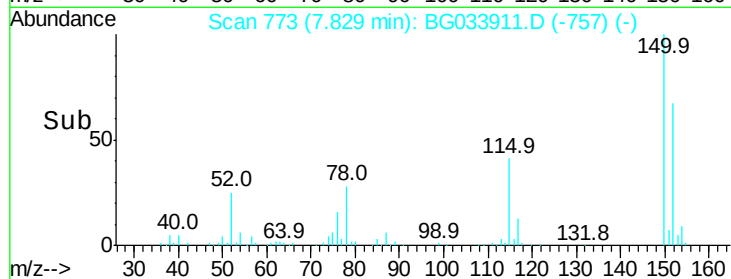
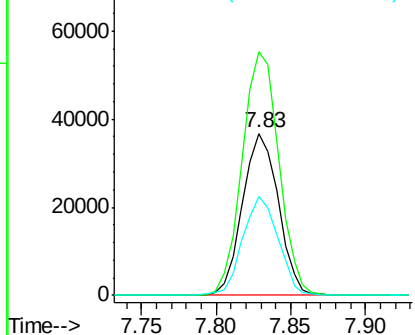
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.83 min Scan# 773  
Delta R.T. -0.01 min  
Lab File: BG033911.D  
Acq: 21 Apr 2018 8:13

Instrument :  
BNA\_G  
ClientSampleId :  
041818-SIDW-F-U-B

Tot Ion:152 Resp: 61020  
Ion Ratio Lower Upper  
152 100  
150 150.0 126.6 189.8  
115 60.8 53.0 79.4



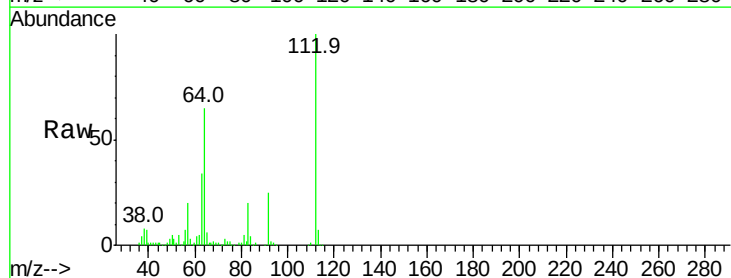
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



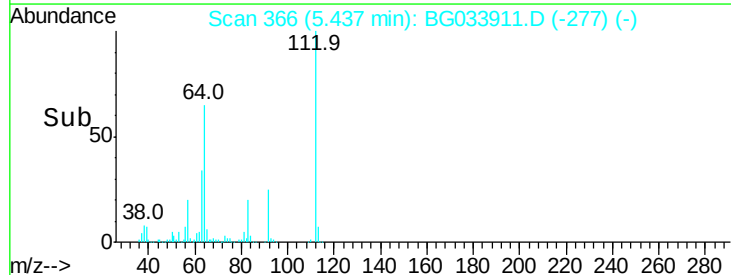
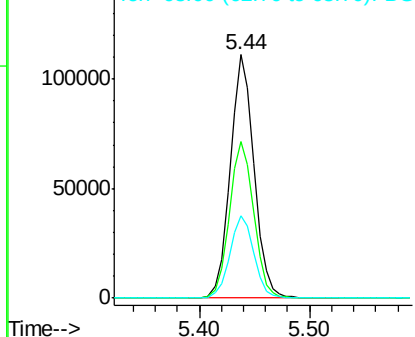
#5

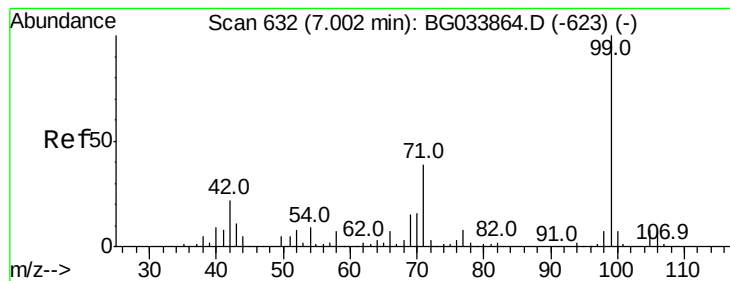
2-Fluorophenol  
Concen: 43.851 ng  
RT: 5.44 min Scan# 366  
Delta R.T. -0.01 min  
Lab File: BG033911.D  
Acq: 21 Apr 2018 8:13

Tgt Ion:112 Resp: 167600  
Ion Ratio Lower Upper  
112 100  
64 64.5 56.3 84.5  
63 33.7 30.1 45.1



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: 24.645 ng

RT: 6.99 min Scan# 631

Delta R.T. -0.01 min

Lab File: BG033911.D

Acq: 21 Apr 2018 8:13

Instrument :

BNA\_G

ClientSampleId :

041818-SIDW-F-U-B

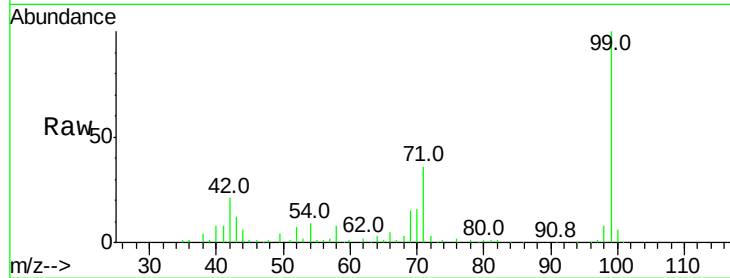
Tot Ion: 99 Resp: 137389

Ion Ratio Lower Upper

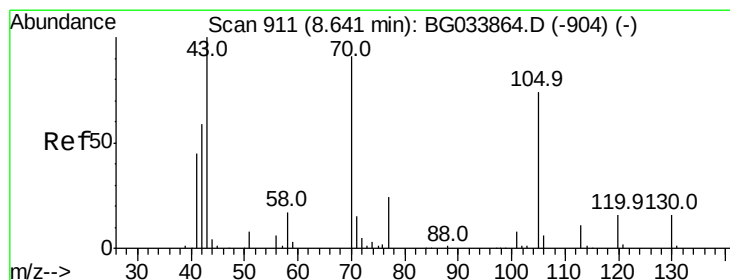
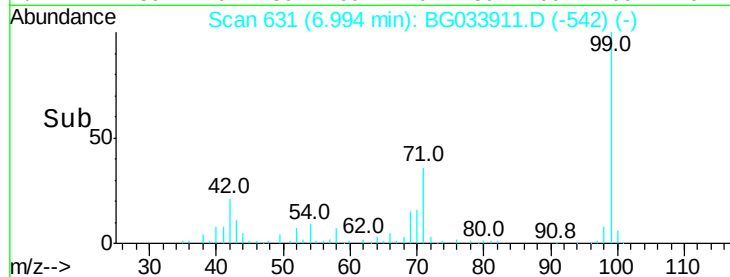
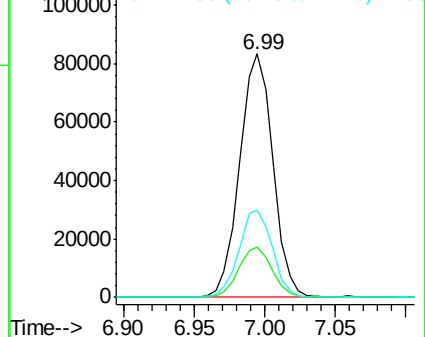
99 100

42 20.6 14.1 21.1

71 35.8 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: 12.823 ng

RT: 8.98 min Scan# 969

Delta R.T. 0.34 min

Lab File: BG033911.D

Acq: 21 Apr 2018 8:13

Tgt Ion: 70 Resp: 60934

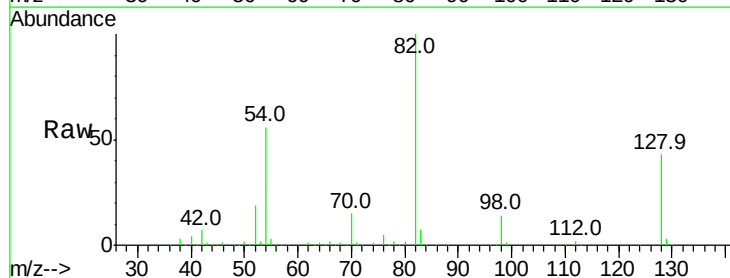
Ion Ratio Lower Upper

70 100

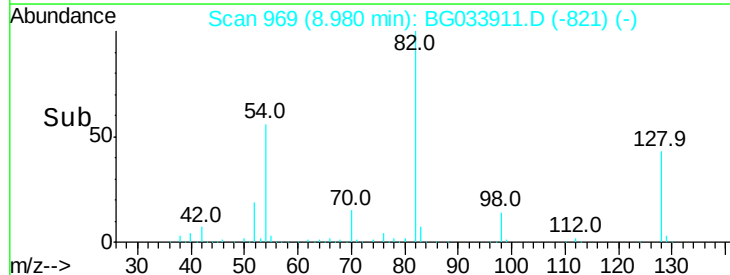
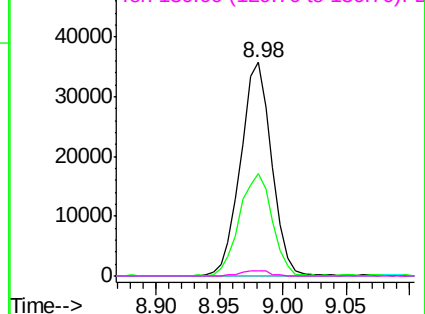
42 47.9 49.1 73.7#

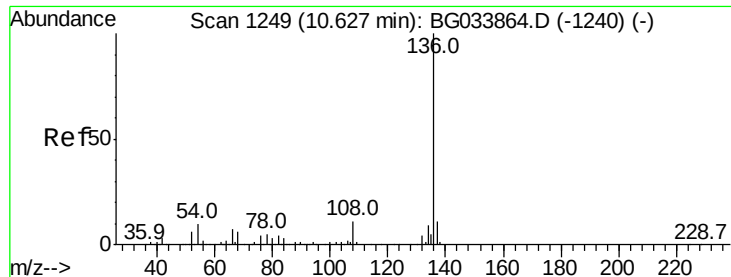
101 0.0 8.5 12.7#

130 2.5 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: 10.61 min Scan# 1247

Delta R.T. -0.01 min

Lab File: BG033911.D

Acq: 21 Apr 2018 8:13

Instrument :

BNA\_G

ClientSampleId :

041818-SIDW-F-U-B

Tot Ion:136 Resp: 256212

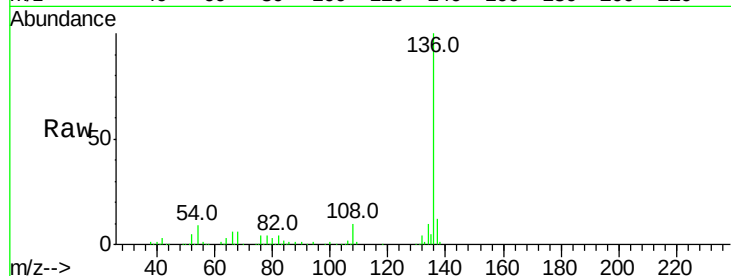
Ion Ratio Lower Upper

136 100

137 11.5 9.2 13.8

54 9.2 10.3 15.5#

68 5.9 4.5 6.7

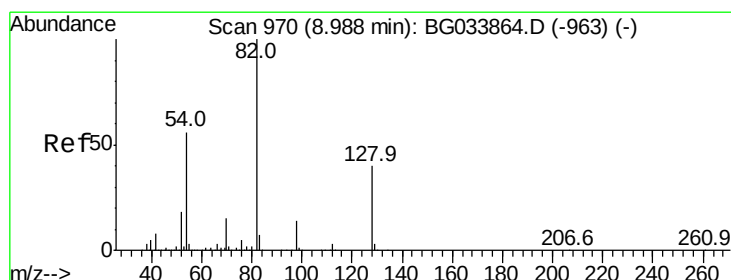
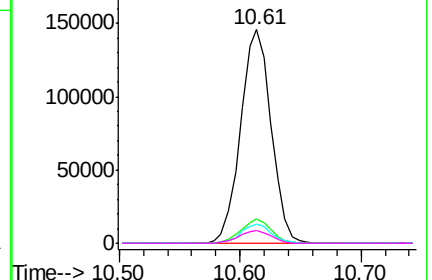
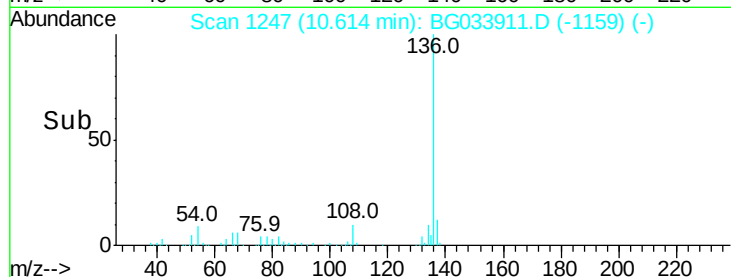


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC



#23

Nitrobenzene-d5

Concen: 98.034 ng

RT: 8.98 min Scan# 969

Delta R.T. -0.01 min

Lab File: BG033911.D

Acq: 21 Apr 2018 8:13

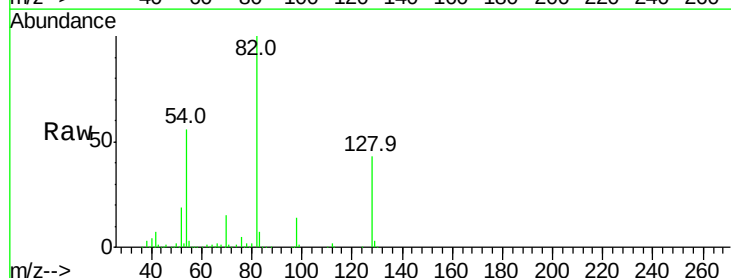
Tgt Ion: 82 Resp: 441357

Ion Ratio Lower Upper

82 100

128 43.5 29.7 44.5

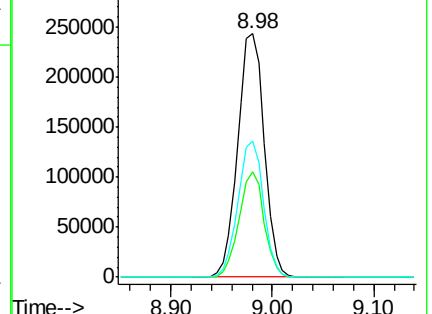
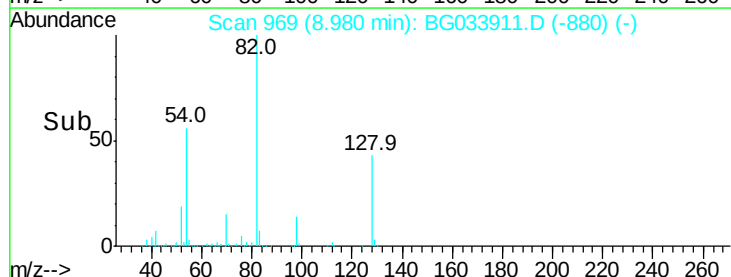
54 56.0 43.1 64.7

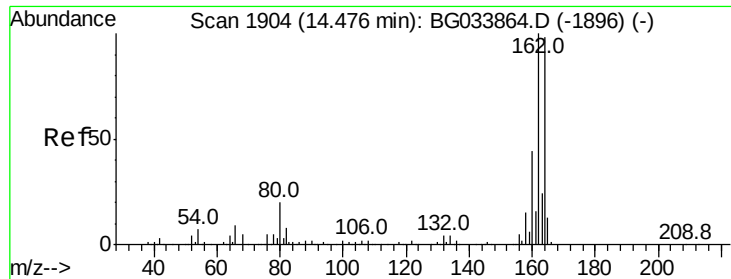


Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BGC





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.46 min Scan# 1902

Delta R.T. -0.01 min

Lab File: BG033911.D

Acq: 21 Apr 2018 8:13

Instrument :

BNA\_G

ClientSampleId :

041818-SIDW-F-U-B

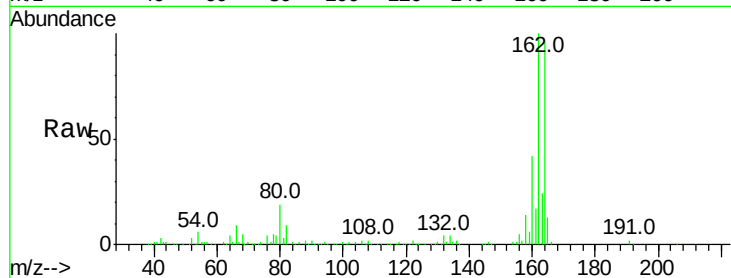
Tot Ion:164 Resp: 171123

Ion Ratio Lower Upper

164 100

162 104.1 78.8 118.2

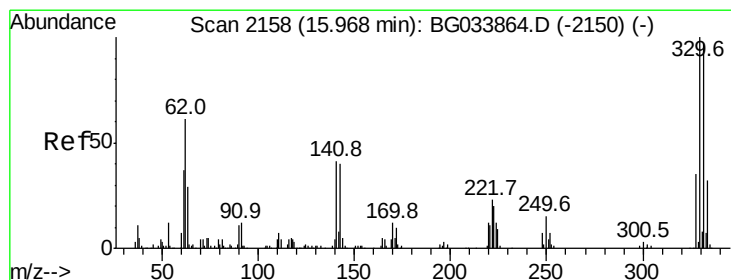
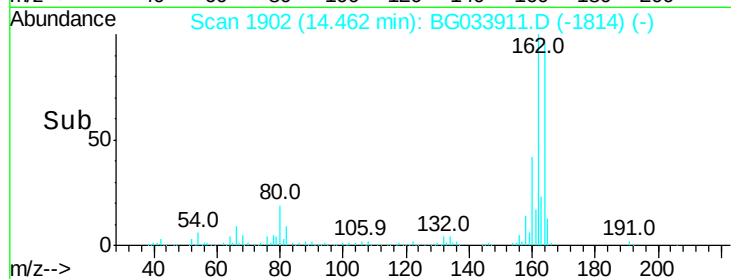
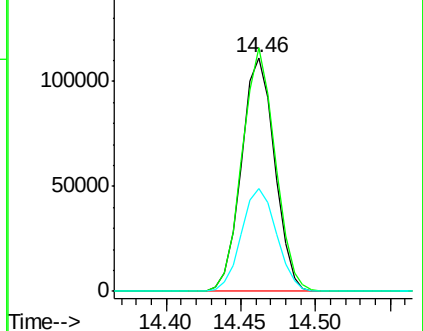
160 43.8 35.4 53.0



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



#41

2,4,6-Tribromophenol

Concen: 116.253 ng

RT: 15.95 min Scan# 2156

Delta R.T. -0.01 min

Lab File: BG033911.D

Acq: 21 Apr 2018 8:13

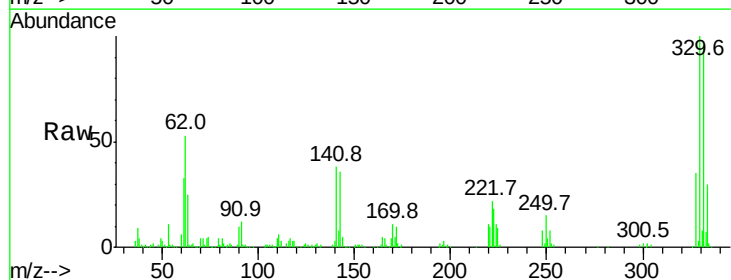
Tgt Ion:330 Resp: 232090

Ion Ratio Lower Upper

330 100

332 96.7 77.0 115.6

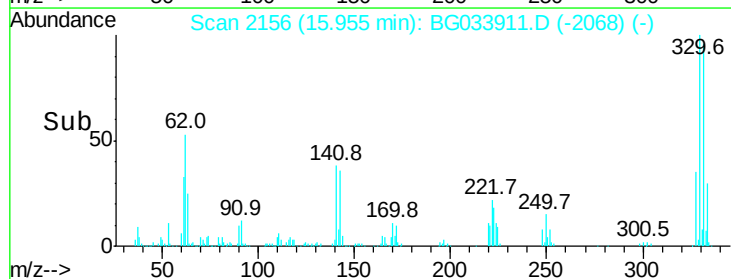
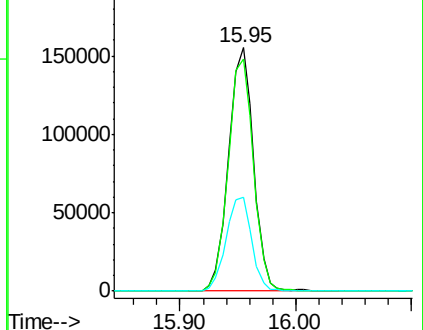
141 39.7 25.2 37.8#

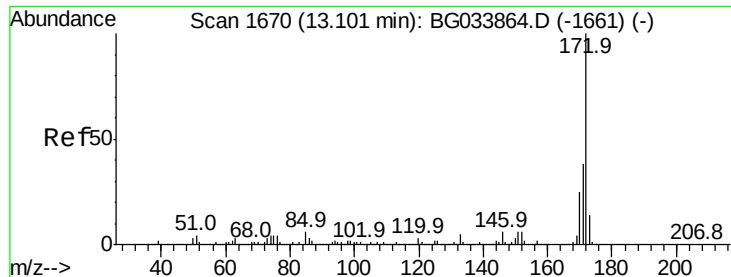


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

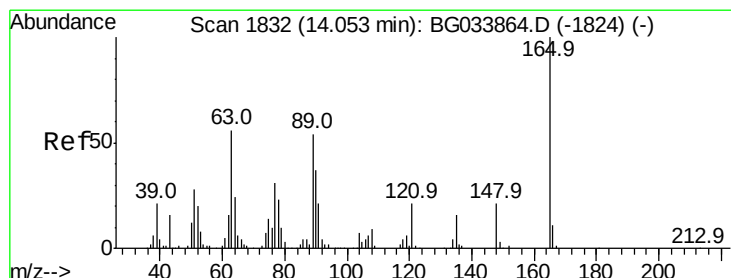
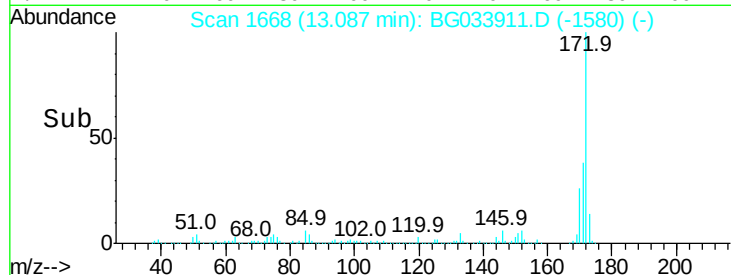
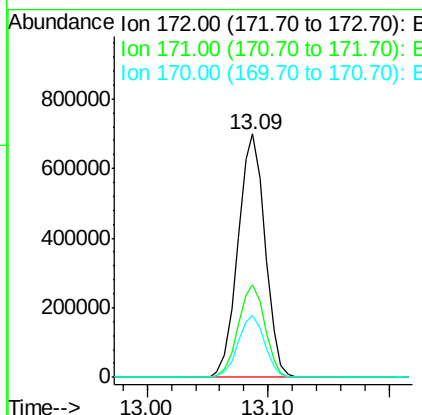
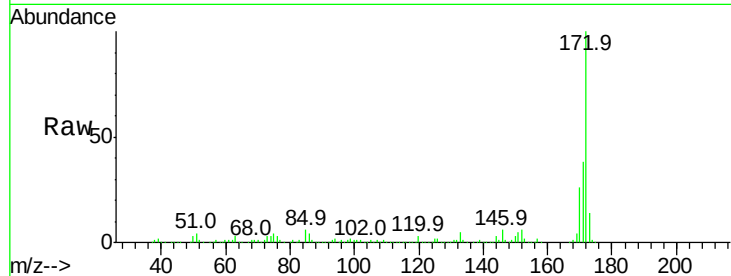




#44  
2-Fluorobiphenyl  
Concen: 93.609 ng  
RT: 13.09 min Scan# 1668  
Delta R.T. -0.01 min  
Lab File: BG033911.D  
Acq: 21 Apr 2018 8:13

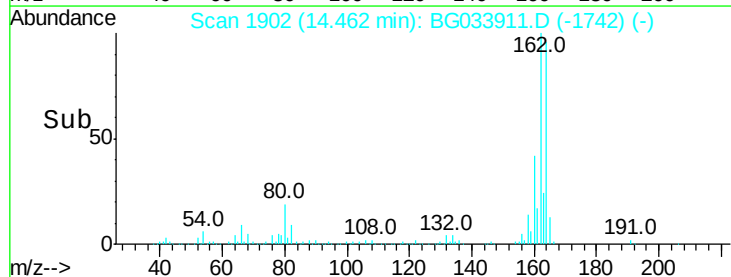
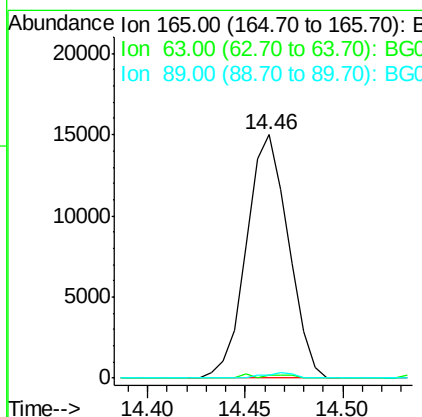
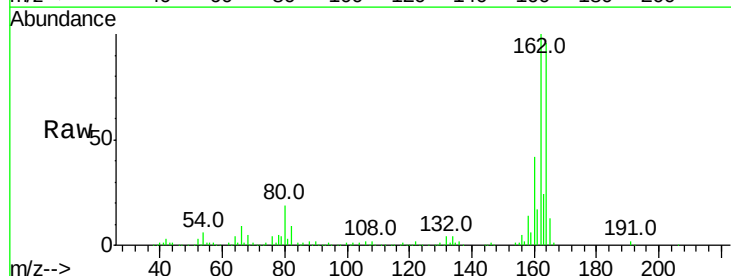
Instrument :  
BNA\_G  
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041818-SIDW-F-U-B

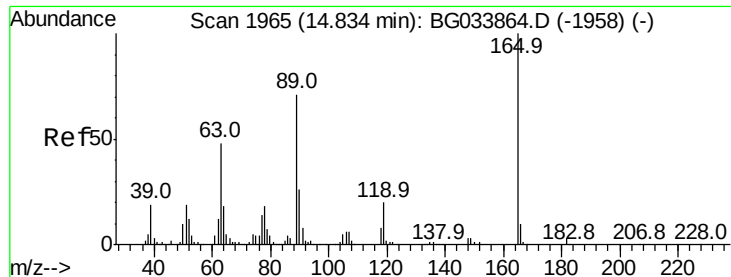
Tot Ion:172 Resp: 1090423  
Ion Ratio Lower Upper  
172 100  
171 38.1 30.0 45.0  
170 25.7 19.5 29.3



#50  
2,6-Dinitrotoluene  
Concen: 7.806 ng  
RT: 14.46 min Scan# 1902  
Delta R.T. 0.41 min  
Lab File: BG033911.D  
Acq: 21 Apr 2018 8:13

Tgt Ion:165 Resp: 22267  
Ion Ratio Lower Upper  
165 100  
63 1.1 52.7 79.1#  
89 1.5 49.2 73.8#

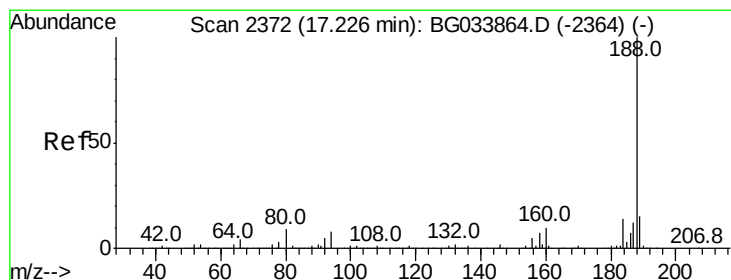
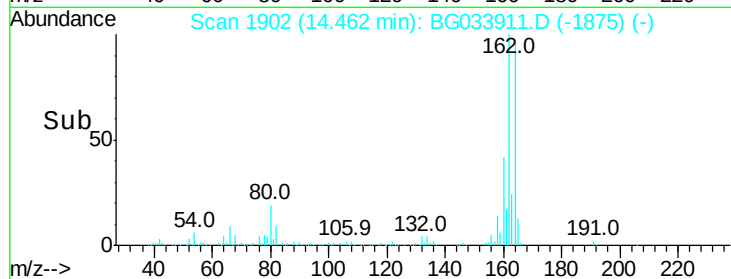
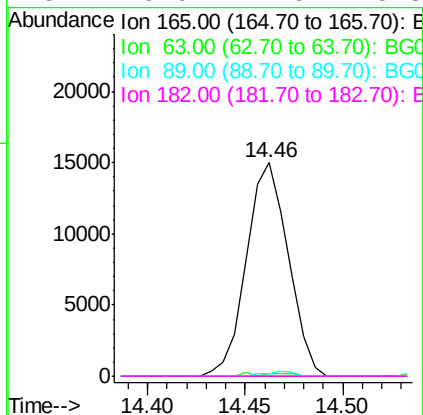
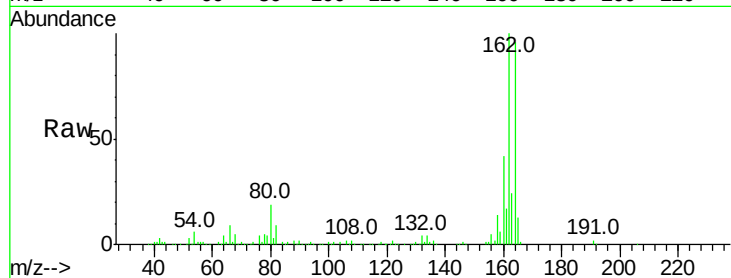




#56  
 2,4-Dinitrotoluene  
 Concen: 5.870 ng  
 RT: 14.46 min Scan# 1902  
 Delta R.T. -0.37 min  
 Lab File: BG033911.D  
 Acq: 21 Apr 2018 8:13

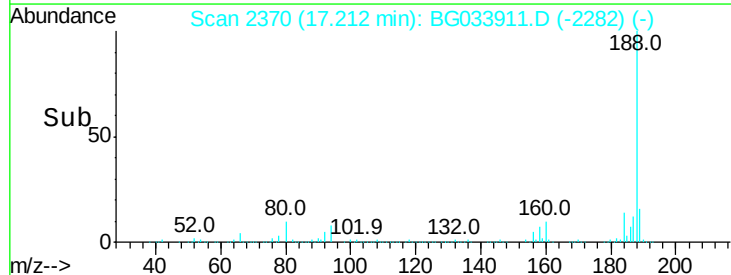
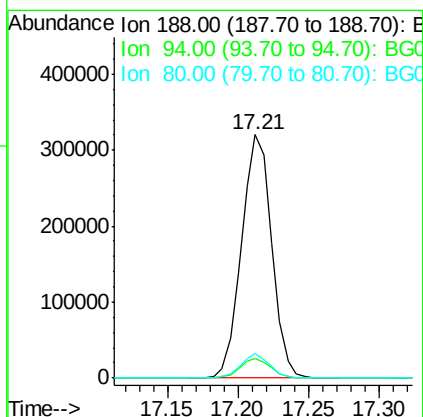
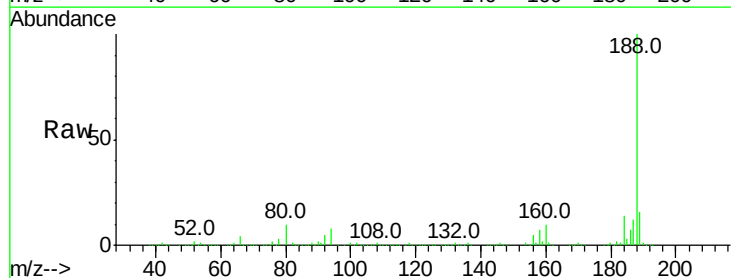
Instrument :  
 BNA\_G  
 ClientSampleId :  
 041818-SIDW-F-U-B

Tot Ion:165 Resp: 22267  
 Ion Ratio Lower Upper  
 165 100  
 63 1.1 42.0 63.0#  
 89 1.5 66.9 100.3#  
 182 0.0 2.6 3.8#

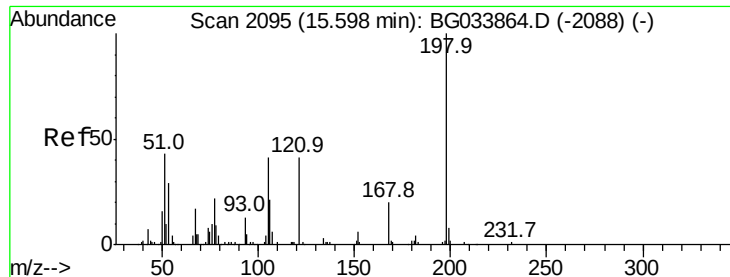


#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.21 min Scan# 2370  
 Delta R.T. -0.01 min  
 Lab File: BG033911.D  
 Acq: 21 Apr 2018 8:13

Tgt Ion:188 Resp: 477243  
 Ion Ratio Lower Upper  
 188 100  
 94 8.2 6.9 10.3  
 80 9.9 7.7 11.5



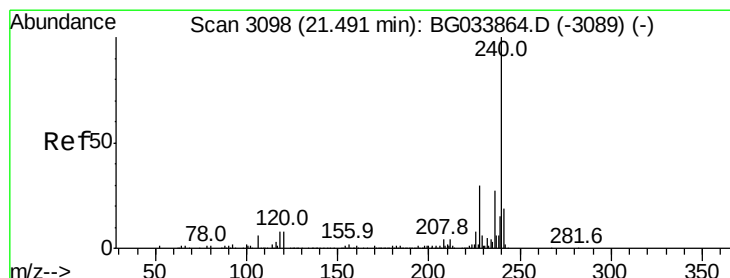
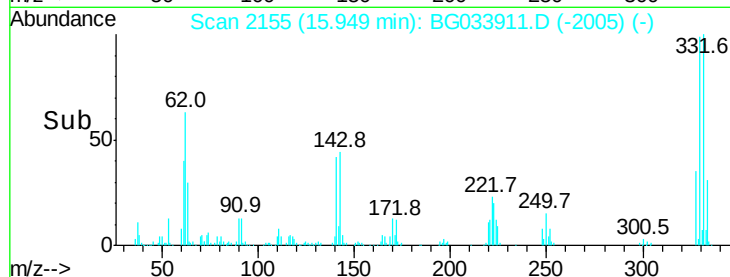
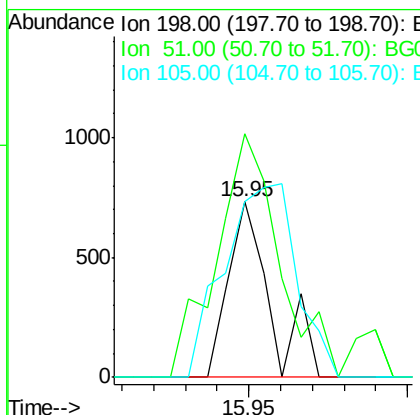
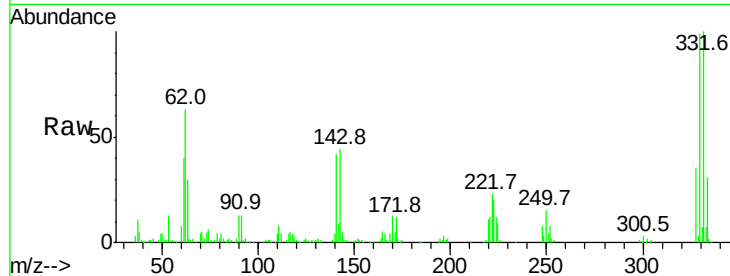




#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 6.738 ng  
 RT: 15.95 min Scan# 2155  
 Delta R.T. 0.35 min  
 Lab File: BG033911.D  
 Acq: 21 Apr 2018 8:13

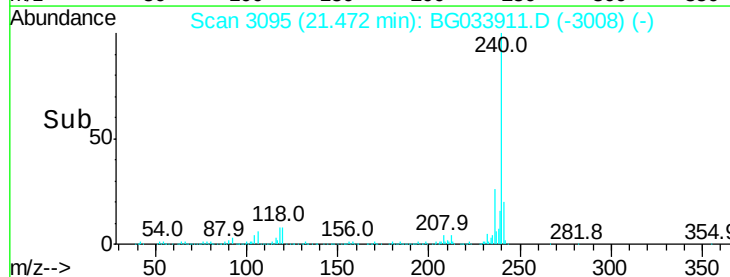
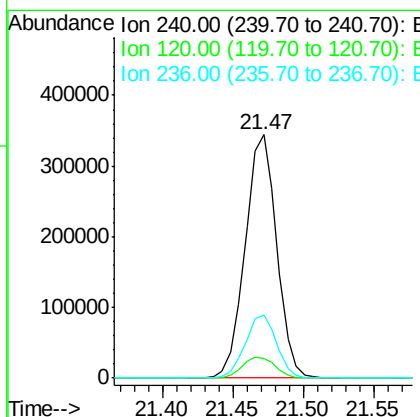
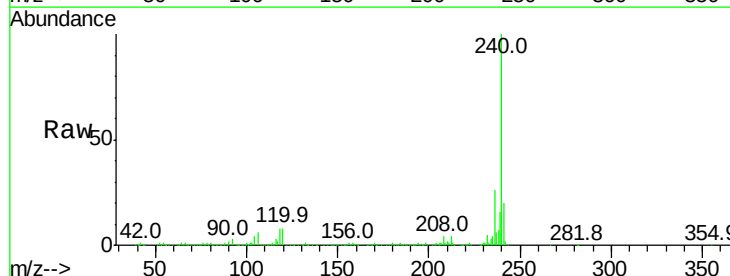
Instrument :  
 BNA\_G  
 ClientSampleId :  
 041818-SIDW-F-U-B

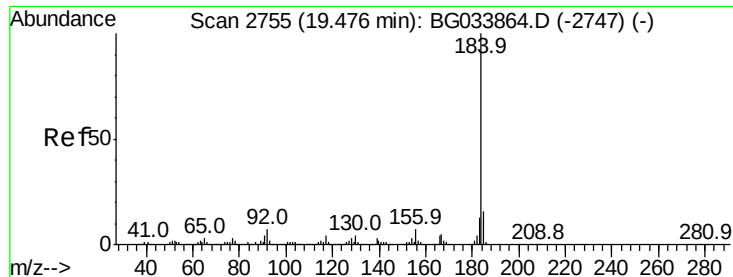
Tot Ion:198 Resp: 662  
 Ion Ratio Lower Upper  
 198 100  
 51 35.5 30.6 70.6  
 105 25.5 23.8 63.8



#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.47 min Scan# 3095  
 Delta R.T. -0.02 min  
 Lab File: BG033911.D  
 Acq: 21 Apr 2018 8:13

Tgt Ion:240 Resp: 539145  
 Ion Ratio Lower Upper  
 240 100  
 120 8.0 6.8 10.2  
 236 26.2 20.9 31.3





#76

Benzidine

Concen: 2.511 ng

RT: 19.86 min Scan# 2820

Delta R.T. 0.38 min

Lab File: BG033911.D

Acq: 21 Apr 2018 8:13

Instrument :

BNA\_G

ClientSampleId :

041818-SIDW-F-U-B

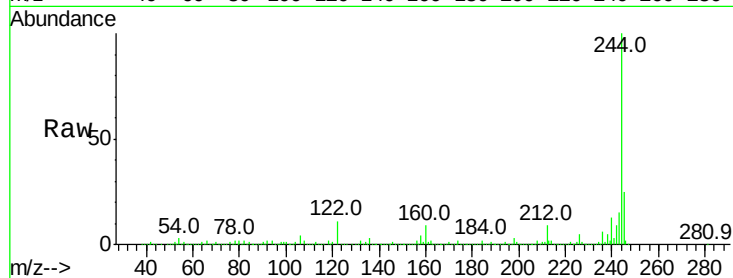
Tot Ion:184 Resp: 36561

Ion Ratio Lower Upper

184 100

185 17.2 11.1 16.7#

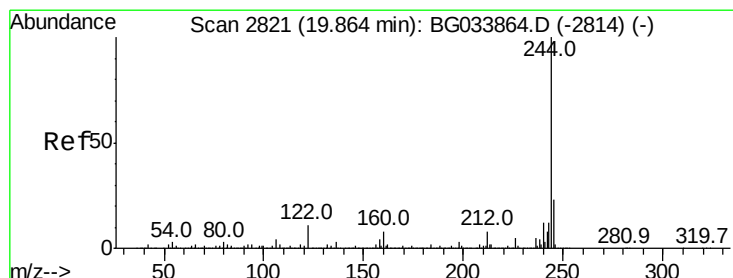
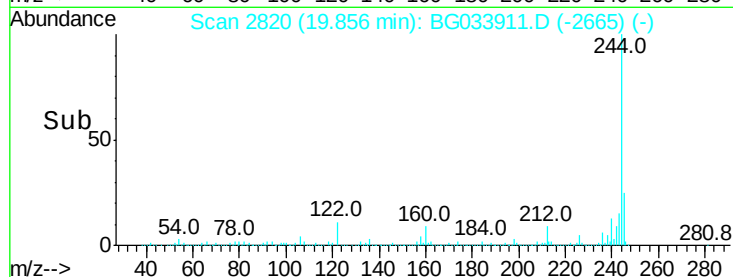
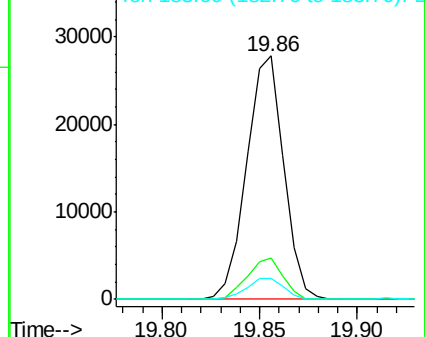
183 8.7 10.6 16.0#



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: 90.509 ng

RT: 19.86 min Scan# 2820

Delta R.T. -0.01 min

Lab File: BG033911.D

Acq: 21 Apr 2018 8:13

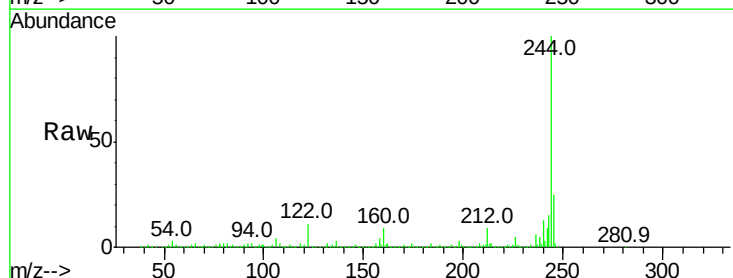
Tgt Ion:244 Resp: 2172053

Ion Ratio Lower Upper

244 100

212 9.1 5.8 8.8#

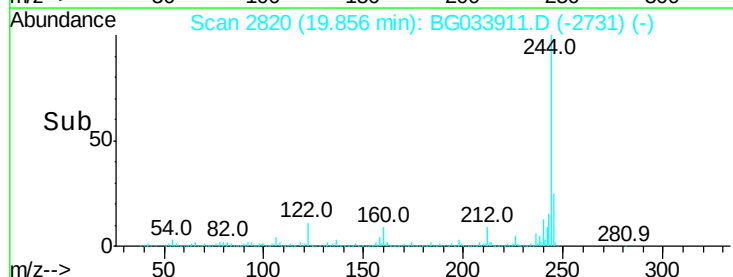
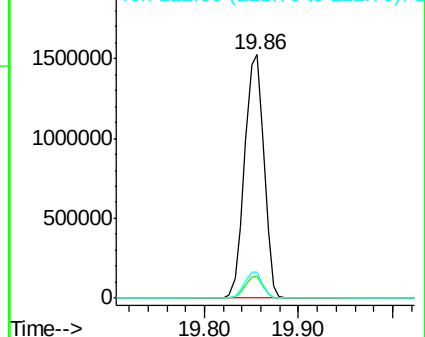
122 10.9 7.0 10.4#

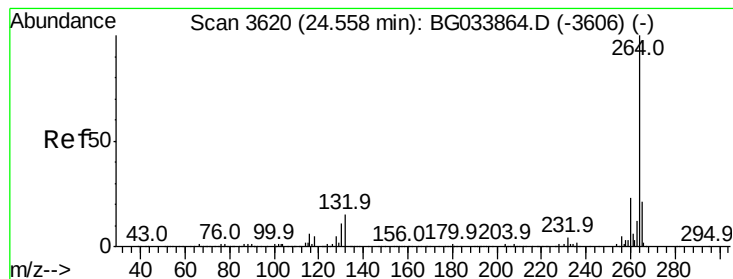


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86

Pervlene-d12

Concen: 20.000 ng

RT: 24.53 min Scan# 3616

Delta R.T. -0.03 min

Lab File: BG033911.D

Acq: 21 Apr 2018 8:13

Instrument :

BNA\_G

ClientSampleId :

041818-SIDW-F-U-B

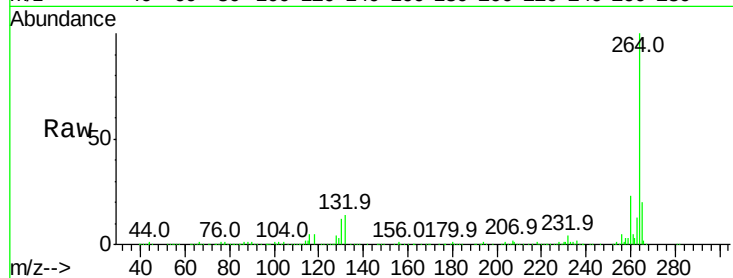
Tot Ion:264 Resp: 544409

Ion Ratio Lower Upper

264 100

260 22.6 17.4 26.0

265 20.4 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

