

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG070218\  
 Data File : BG035553.D  
 Acq On : 2 Jul 2018 16:23  
 Operator : JU/SJ  
 Sample : J3790-01  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 ZER-WC-S-01-0-72

Quant Time: Jul 02 18:37:08 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG060718.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 08 17:16:28 2018  
 Response via : Initial Calibration

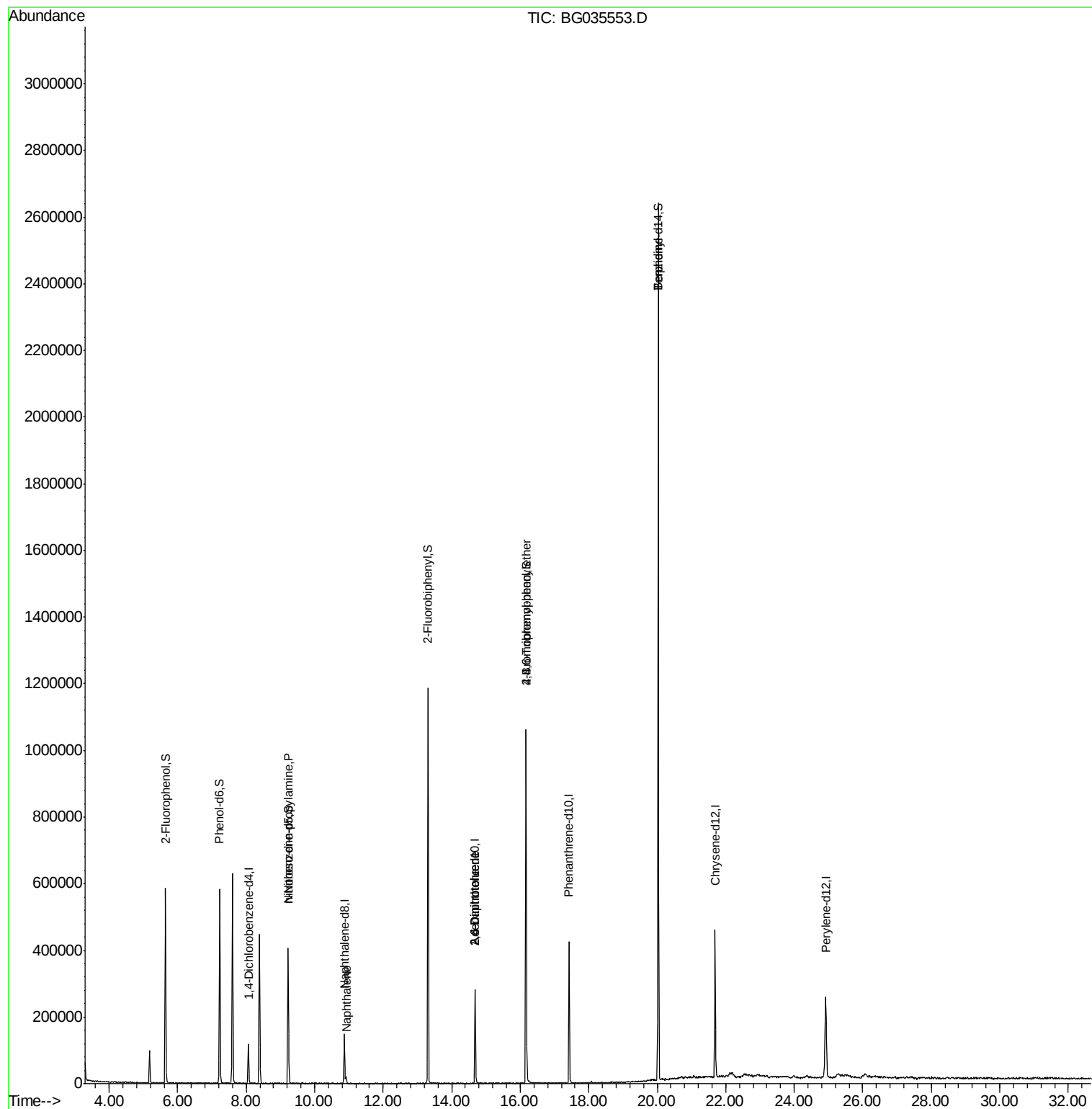
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 8.06  | 152  | 32938    | 20.00  | ng    | -0.01       |
| 21) Naphthalene-d8             | 10.87 | 136  | 125193   | 20.00  | ng    | -0.01       |
| 38) Acenaphthene-d10           | 14.68 | 164  | 97466    | 20.00  | ng    | -0.01       |
| 63) Phenanthrene-d10           | 17.43 | 188  | 265164   | 20.00  | ng    | -0.01       |
| 75) Chrysene-d12               | 21.69 | 240  | 288157   | 20.00  | ng    | -0.03       |
| 86) Perylene-d12               | 24.91 | 264  | 272127   | 20.00  | ng    | -0.04       |
| System Monitoring Compounds    |       |      |          |        |       |             |
| 5) 2-Fluorophenol              | 5.64  | 112  | 256325   | 131.33 | ng    | 0.00        |
| 7) Phenol-d6                   | 7.23  | 99   | 352252   | 122.28 | ng    | 0.00        |
| 23) Nitrobenzene-d5            | 9.22  | 82   | 268163   | 101.82 | ng    | -0.01       |
| 41) 2,4,6-Tribromophenol       | 16.17 | 330  | 208951   | 167.47 | ng    | -0.01       |
| 44) 2-Fluorobiphenyl           | 13.31 | 172  | 650955   | 86.82  | ng    | -0.02       |
| 78) Terphenyl-d14              | 20.03 | 244  | 1288915  | 93.69  | ng    | -0.01       |
| Target Compounds               |       |      |          |        |       |             |
| 19) n-Nitroso-di-n-propylamine | 9.23  | 70   | 35723    | 14.597 | ng    | Qvalue # 65 |
| 31) Naphthalene                | 10.92 | 128  | 17411    | 2.677  | ng    | # 98        |
| 50) 2,6-Dinitrotoluene         | 14.68 | 165  | 14056    | 9.065  | ng    | # 18        |
| 56) 2,4-Dinitrotoluene         | 14.68 | 165  | 14056    | 6.824  | ng    | # 16        |
| 66) 4-Bromophenyl-phenylether  | 16.17 | 248  | 15886    | 4.975  | ng    | # 1         |
| 76) Benzidine                  | 20.03 | 184  | 21618    | 2.017  | ng    | # 91        |

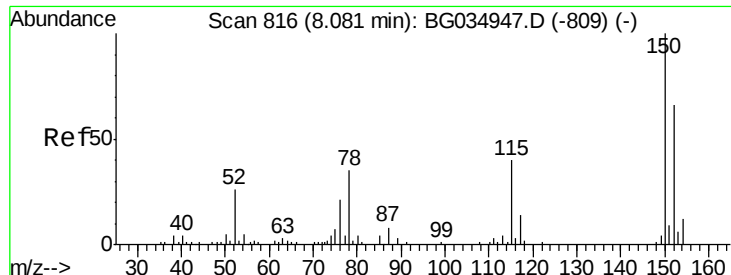
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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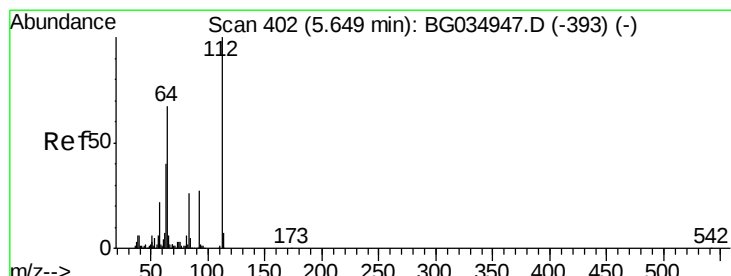
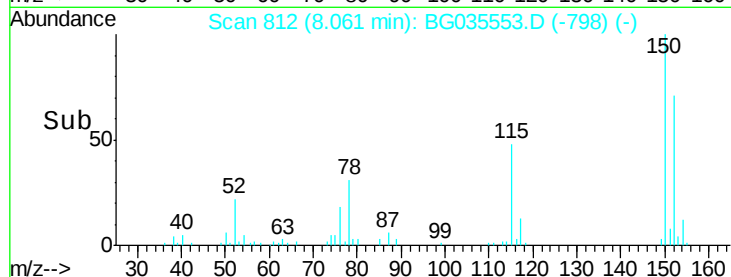
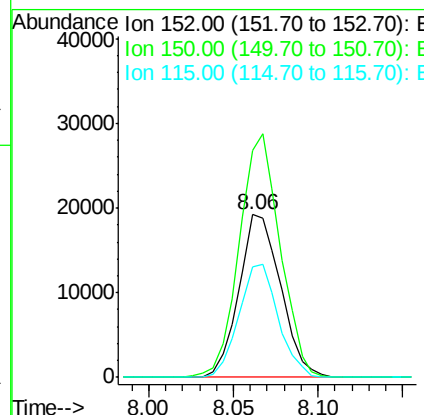
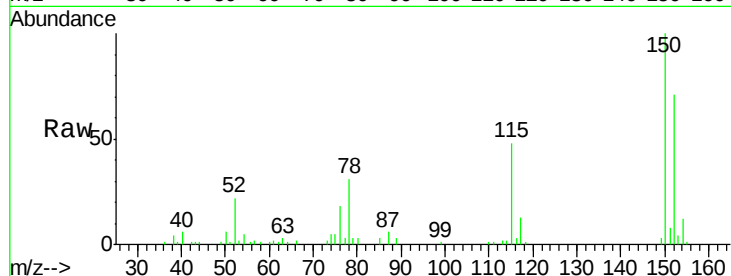




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.06 min Scan# 812  
 Delta R.T. -0.01 min  
 Lab File: BG035553.D  
 Acq: 2 Jul 2018 16:23

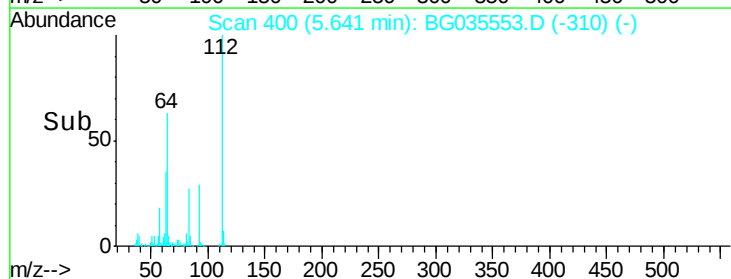
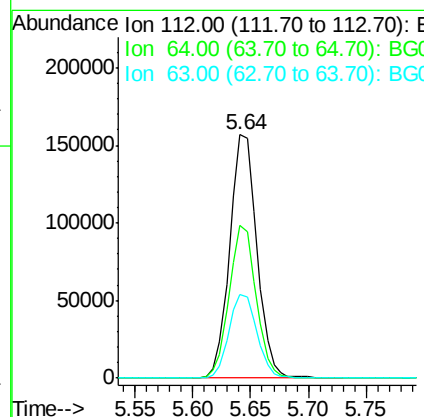
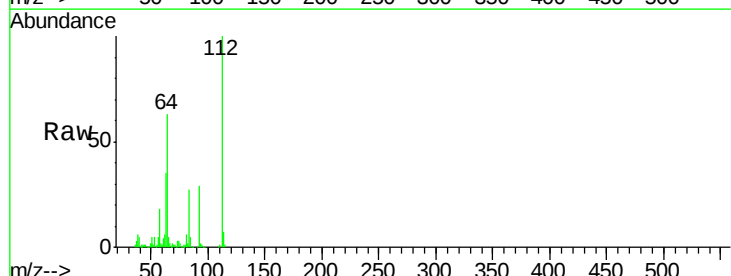
Instrument :  
 BNA\_G  
 ClientSampleId :  
 ZER-WC-S-01-0-72

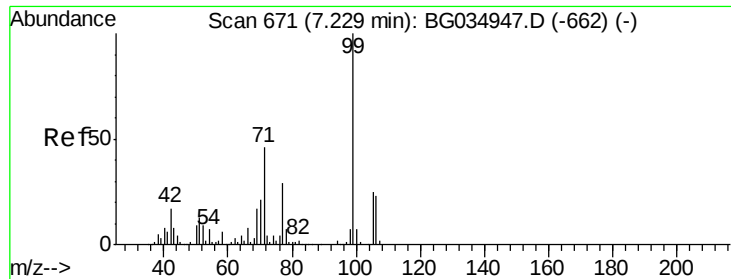
Tgt Ion:152 Resp: 32938  
 Ion Ratio Lower Upper  
 152 100  
 150 139.9 126.6 189.8  
 115 67.7 53.0 79.4



#5  
 2-Fluorophenol  
 Concen: 131.330 ng  
 RT: 5.64 min Scan# 400  
 Delta R.T. -0.00 min  
 Lab File: BG035553.D  
 Acq: 2 Jul 2018 16:23

Tgt Ion:112 Resp: 256325  
 Ion Ratio Lower Upper  
 112 100  
 64 62.7 56.3 84.5  
 63 34.6 30.1 45.1





#7

Phenol-d6

Concen: 122.281 ng

RT: 7.23 min Scan# 670

Delta R.T. 0.00 min

Lab File: BG035553.D

Acq: 2 Jul 2018 16:23

Instrument :

BNA\_G

ClientSampleId :

ZER-WC-S-01-0-72

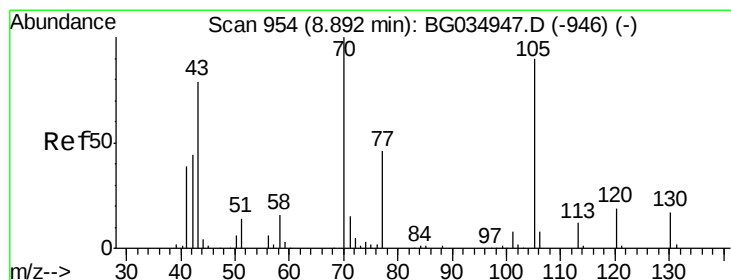
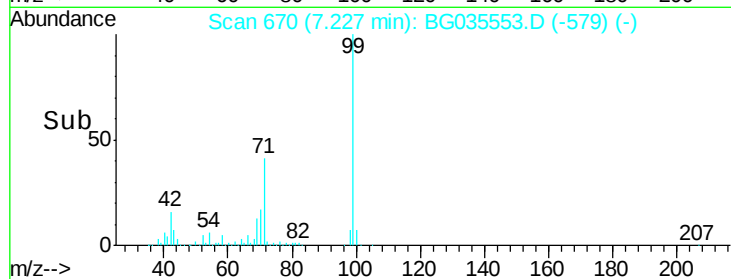
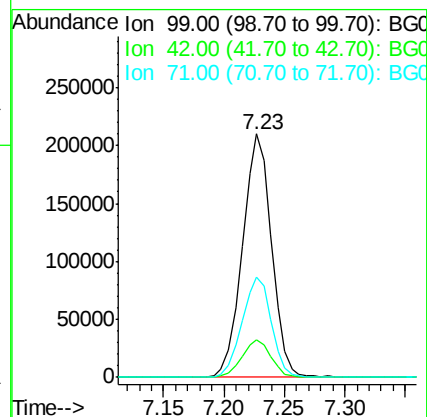
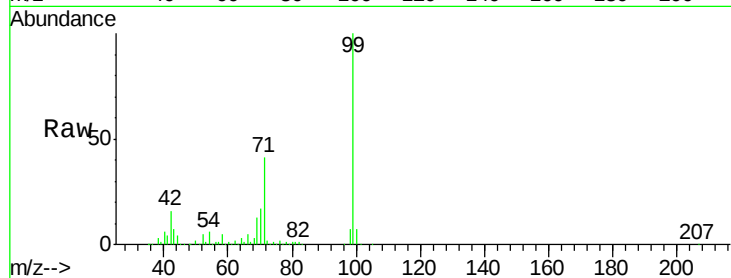
Tgt Ion: 99 Resp: 352252

Ion Ratio Lower Upper

99 100

42 15.7 14.1 21.1

71 41.4 26.1 39.1#



#19

n-Nitroso-di-n-propylamine

Concen: 14.597 ng

RT: 9.23 min Scan# 1011

Delta R.T. 0.35 min

Lab File: BG035553.D

Acq: 2 Jul 2018 16:23

Tgt Ion: 70 Resp: 35723

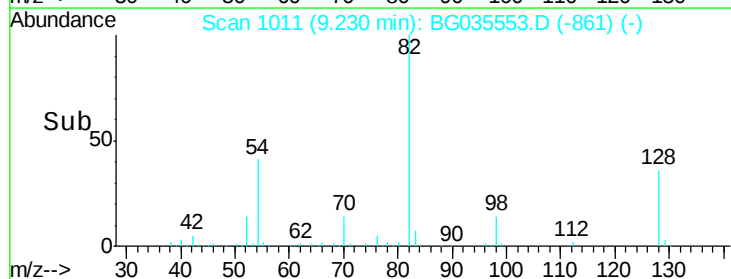
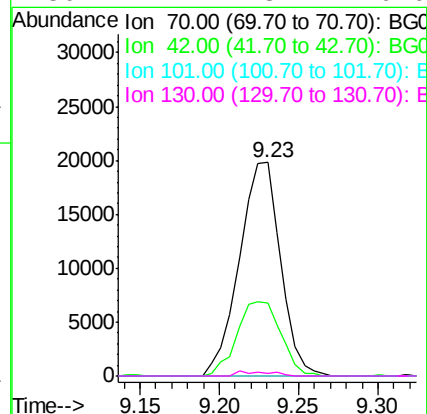
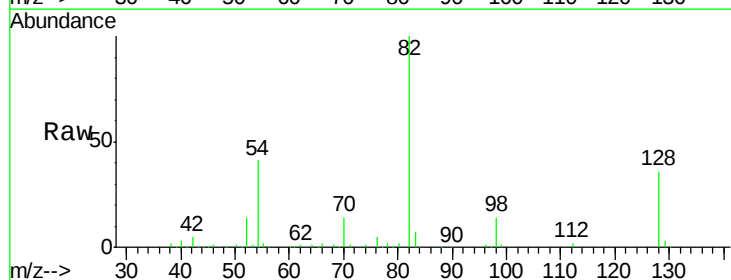
Ion Ratio Lower Upper

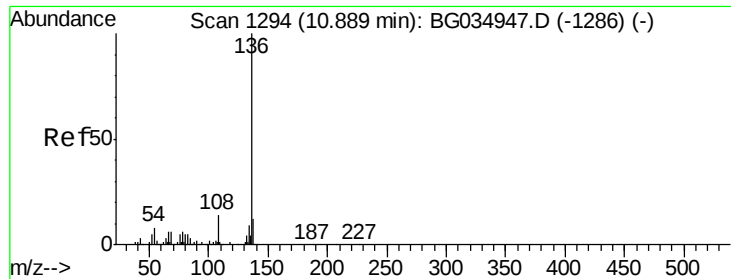
70 100

42 34.0 49.1 73.7#

101 0.0 8.5 12.7#

130 1.4 13.4 20.0#

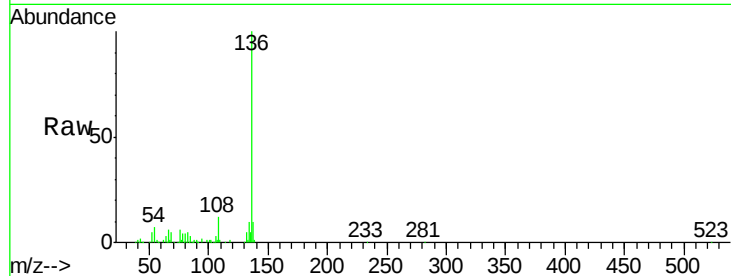




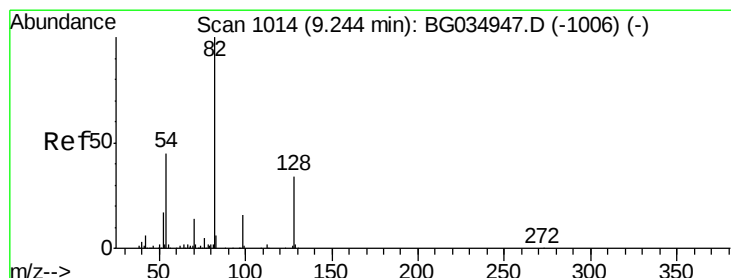
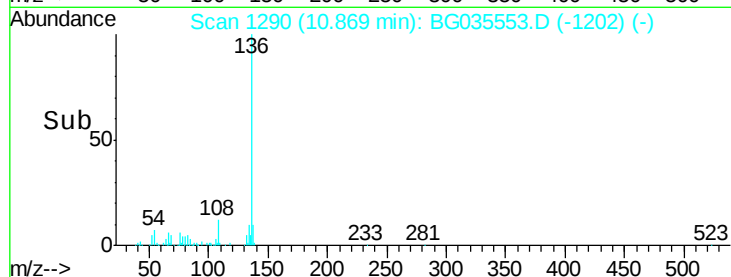
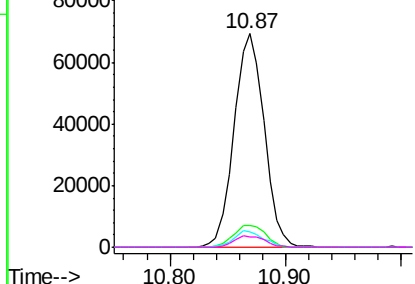
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.87 min Scan# 1290  
Delta R.T. -0.01 min  
Lab File: BG035553.D  
Acq: 2 Jul 2018 16:23

Instrument :  
BNA\_G  
ClientSampleId :  
ZER-WC-S-01-0-72

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 125193 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.0  | 9.2   | 13.8   |
| 54       | 7.1   | 10.3  | 15.5#  |
| 68       | 4.7   | 4.5   | 6.7    |

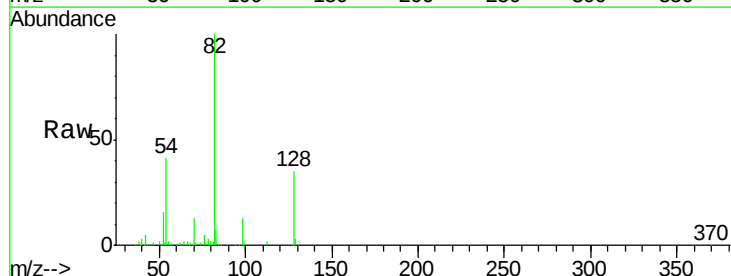


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

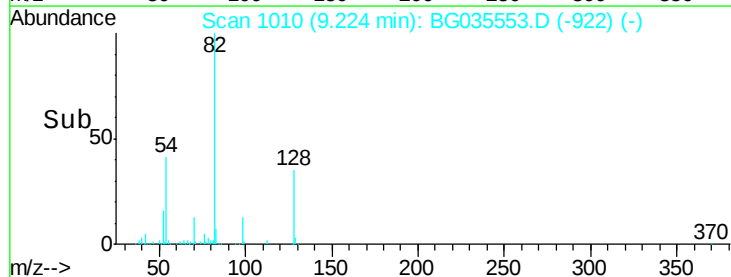
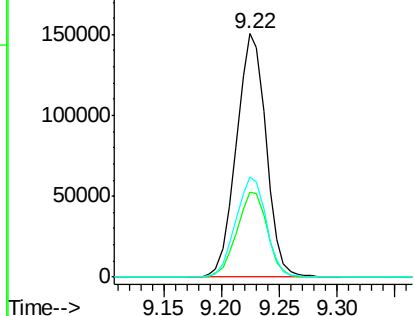


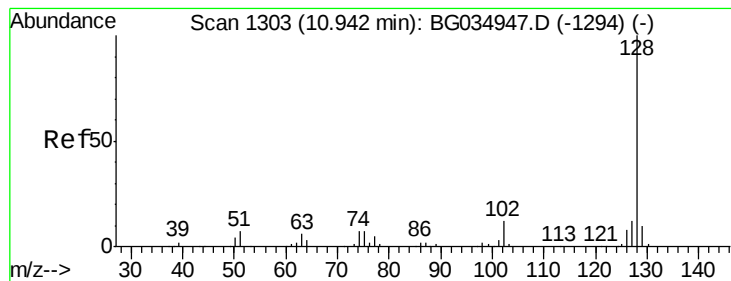
#23  
Nitrobenzene-d5  
Concen: 101.818 ng  
RT: 9.22 min Scan# 1010  
Delta R.T. -0.01 min  
Lab File: BG035553.D  
Acq: 2 Jul 2018 16:23

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 268163 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 35.1  | 29.7  | 44.5   |
| 54       | 41.4  | 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





#31

Naphthalene

Concen: 2.677 ng

RT: 10.92 min Scan# 1298

Delta R.T. -0.01 min

Lab File: BG035553.D

Acq: 2 Jul 2018 16:23

Instrument :

BNA\_G

ClientSampleId :

ZER-WC-S-01-0-72

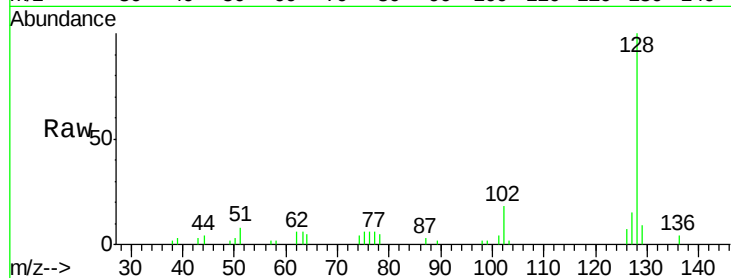
Tgt Ion:128 Resp: 17411

Ion Ratio Lower Upper

128 100

129 9.4 8.6 12.8

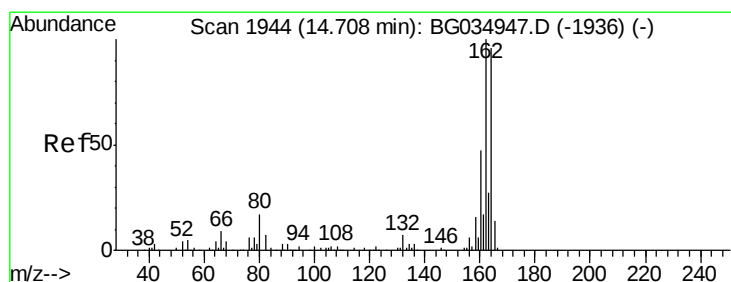
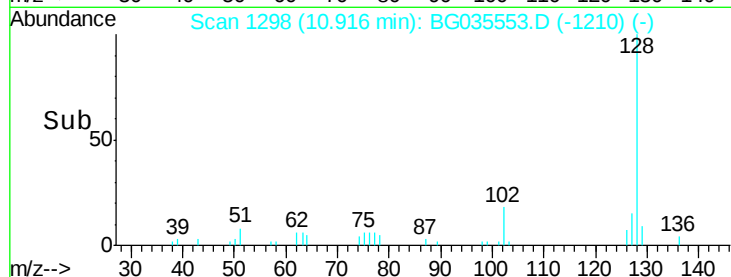
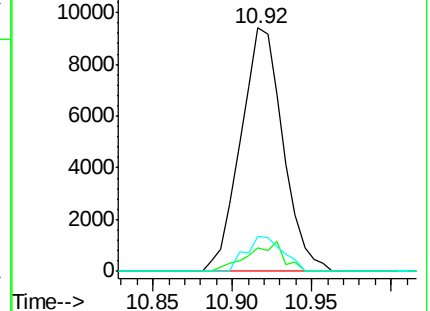
127 14.6 11.6 17.4



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.68 min Scan# 1939

Delta R.T. -0.01 min

Lab File: BG035553.D

Acq: 2 Jul 2018 16:23

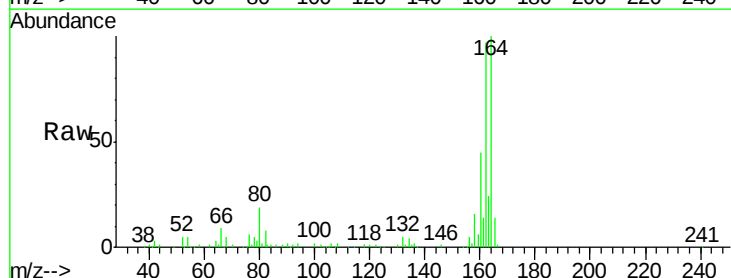
Tgt Ion:164 Resp: 97466

Ion Ratio Lower Upper

164 100

162 97.2 78.8 118.2

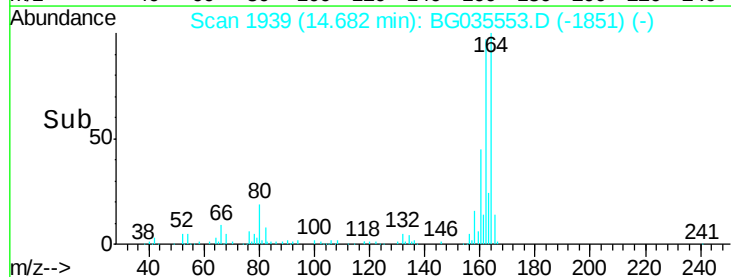
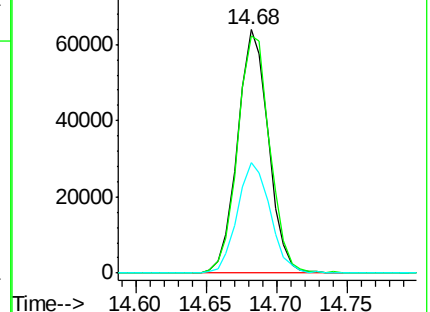
160 45.2 35.4 53.0

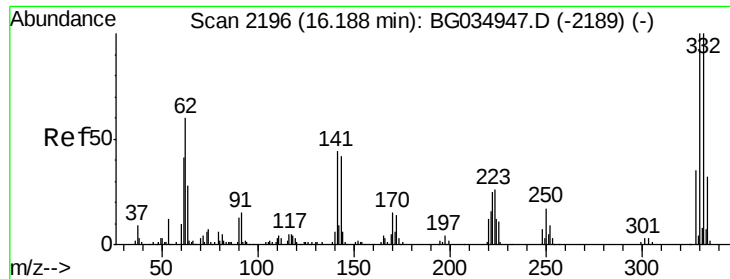


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

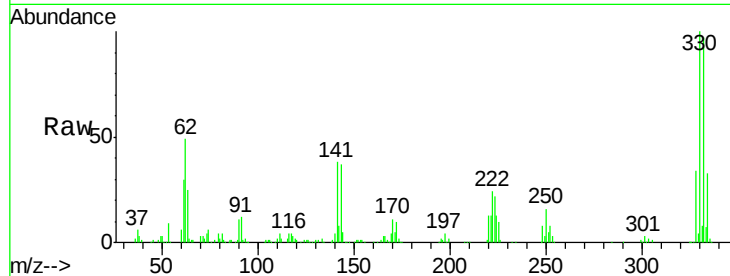




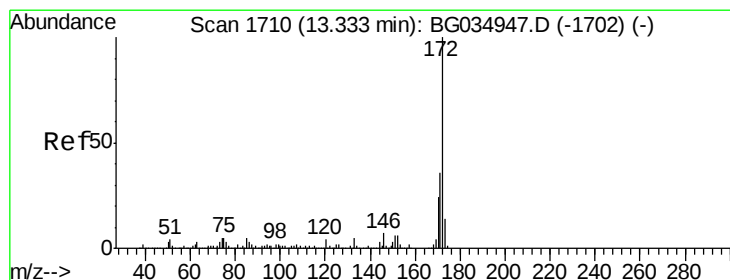
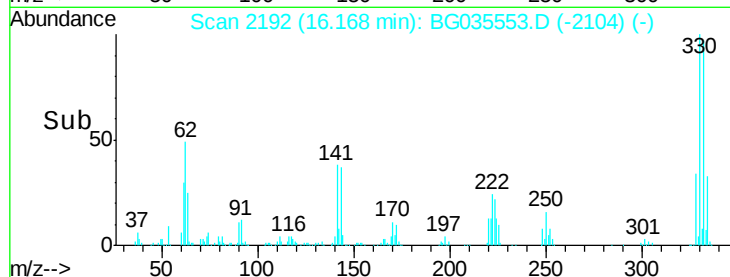
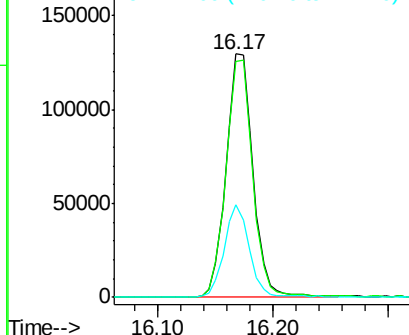
#41  
 2,4,6-Tribromophenol  
 Concen: 167.470 ng  
 RT: 16.17 min Scan# 2192  
 Delta R.T. -0.01 min  
 Lab File: BG035553.D  
 Acq: 2 Jul 2018 16:23

Instrument :  
 BNA\_G  
 ClientSampleId :  
 ZER-WC-S-01-0-72

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.3  | 77.0  | 115.6 |
| 141     | 35.7  | 25.2  | 37.8  |

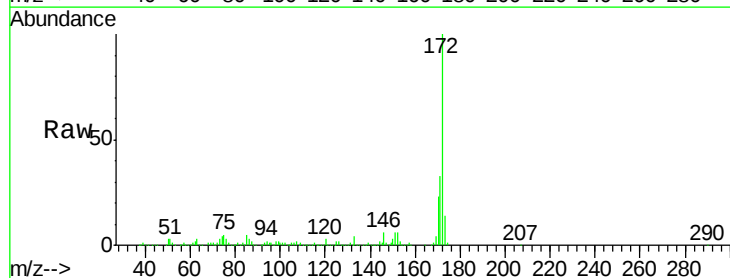


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

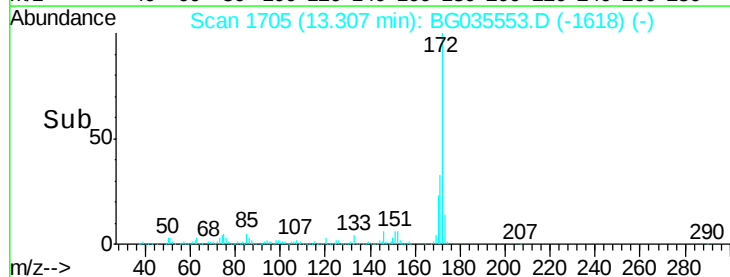
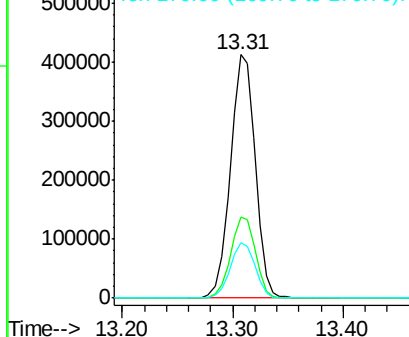


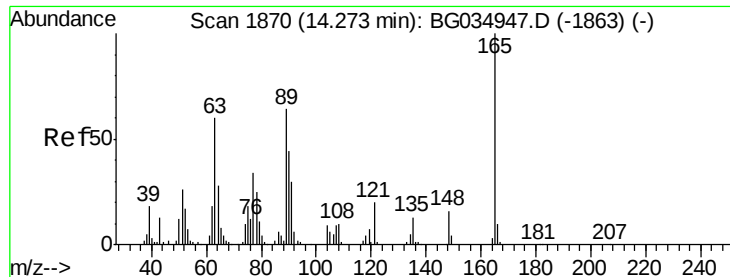
#44  
 2-Fluorobiphenyl  
 Concen: 86.824 ng  
 RT: 13.31 min Scan# 1705  
 Delta R.T. -0.02 min  
 Lab File: BG035553.D  
 Acq: 2 Jul 2018 16:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 33.0  | 30.0  | 45.0  |
| 170     | 22.8  | 19.5  | 29.3  |



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

2,6-Dinitrotoluene

Concen: 9.065 ng

RT: 14.68 min Scan# 1939

Delta R.T. 0.41 min

Lab File: BG035553.D

Acq: 2 Jul 2018 16:23

Instrument :

BNA\_G

ClientSampleId :

ZER-WC-S-01-0-72

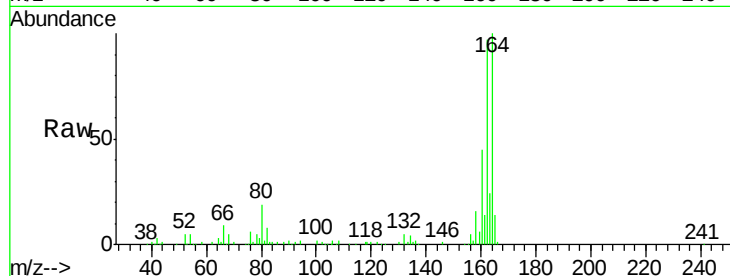
Tgt Ion:165 Resp: 14056

Ion Ratio Lower Upper

165 100

63 0.0 52.7 79.1#

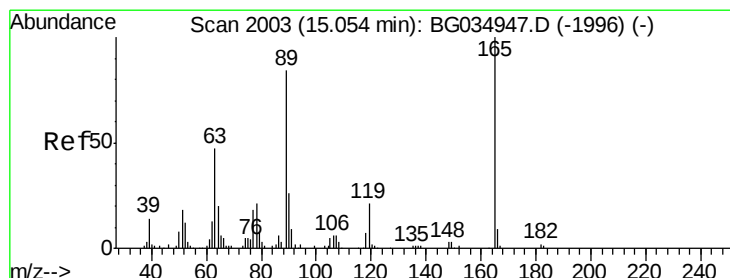
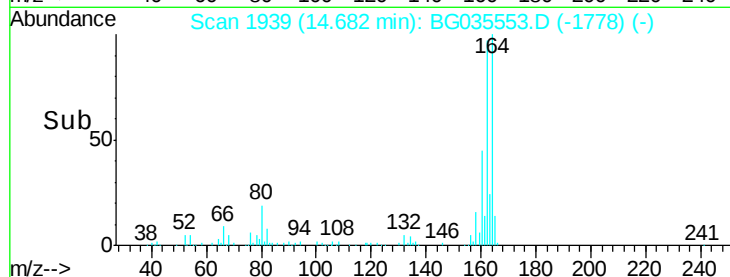
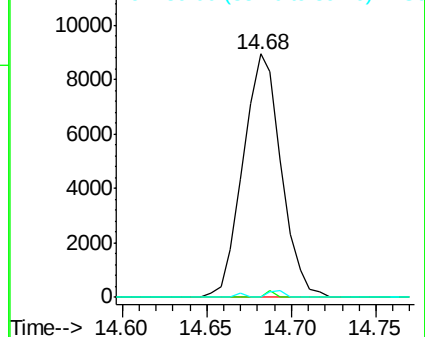
89 0.0 49.2 73.8#



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



#56

2,4-Dinitrotoluene

Concen: 6.824 ng

RT: 14.68 min Scan# 1939

Delta R.T. -0.37 min

Lab File: BG035553.D

Acq: 2 Jul 2018 16:23

Tgt Ion:165 Resp: 14056

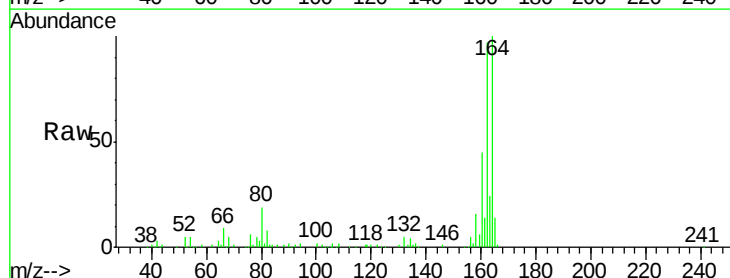
Ion Ratio Lower Upper

165 100

63 0.0 42.0 63.0#

89 0.0 66.9 100.3#

182 0.0 2.6 3.8#

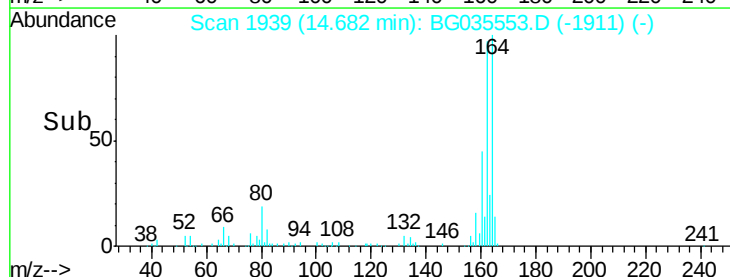
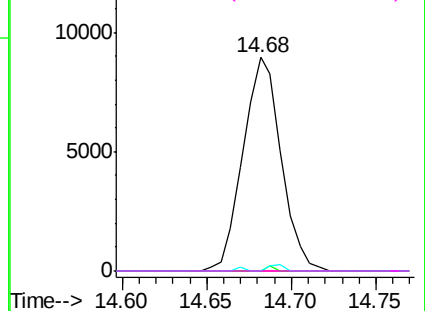


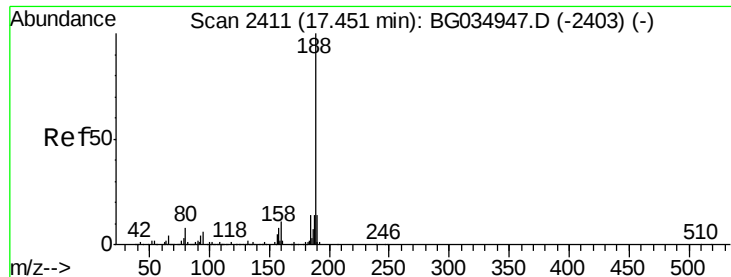
Abundance Ion 165.00 (164.70 to 165.70): E

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: BG035553.D

Acq: 2 Jul 2018 16:23

Instrument :

BNA\_G

ClientSampleId :

ZER-WC-S-01-0-72

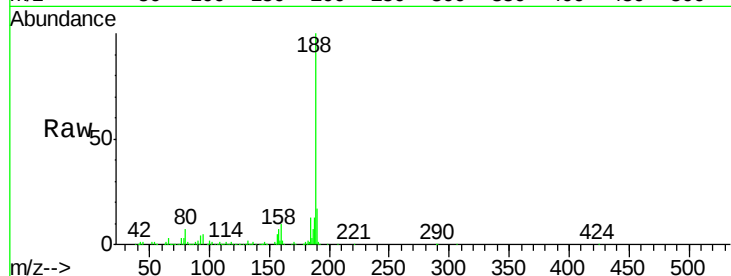
Tgt Ion:188 Resp: 265164

Ion Ratio Lower Upper

188 100

94 5.4 6.9 10.3#

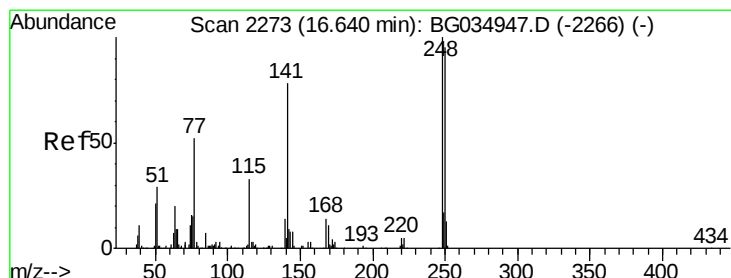
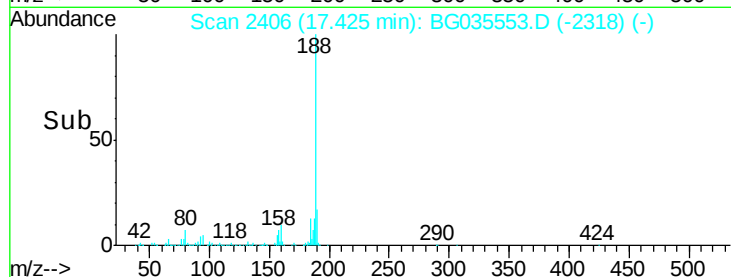
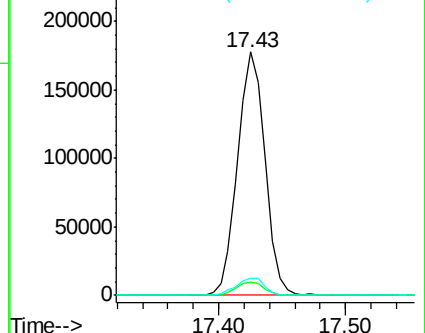
80 7.1 7.7 11.5#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



#66

4-Bromophenyl-phenylether

Concen: 4.975 ng

RT: 16.17 min Scan# 2192

Delta R.T. -0.47 min

Lab File: BG035553.D

Acq: 2 Jul 2018 16:23

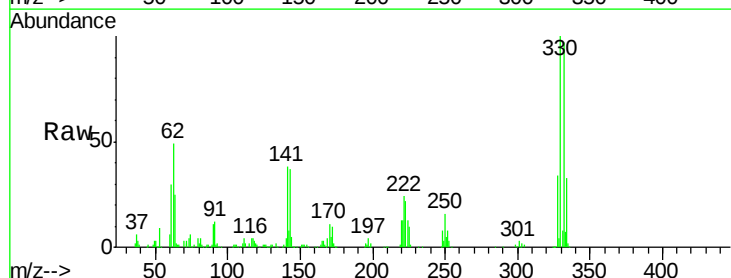
Tgt Ion:248 Resp: 15886

Ion Ratio Lower Upper

248 100

250 199.8 77.1 115.7#

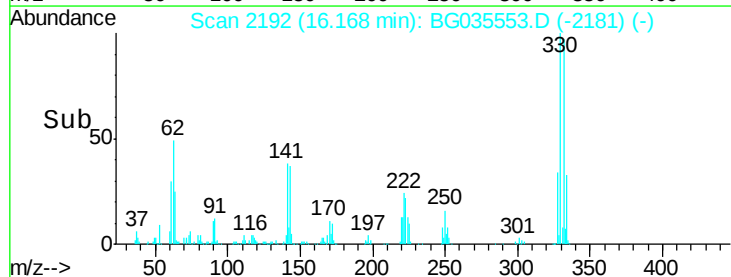
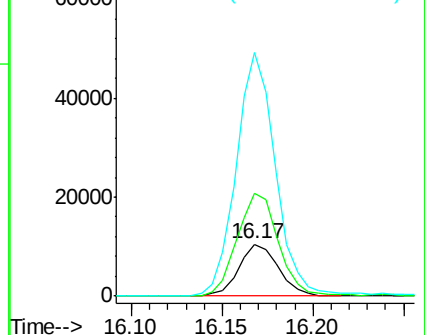
141 472.0 50.8 76.2#

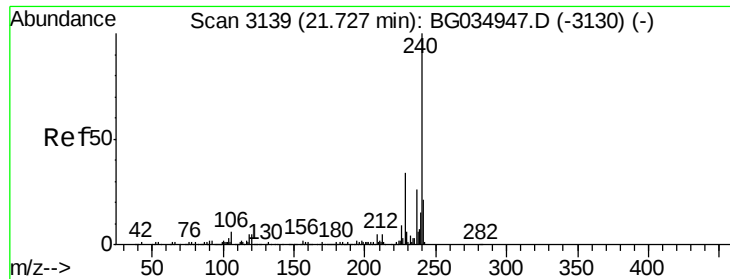


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 21.69 min Scan# 3132

Delta R.T. -0.03 min

Lab File: BG035553.D

Acq: 2 Jul 2018 16:23

Instrument :

BNA\_G

ClientSampleId :

ZER-WC-S-01-0-72

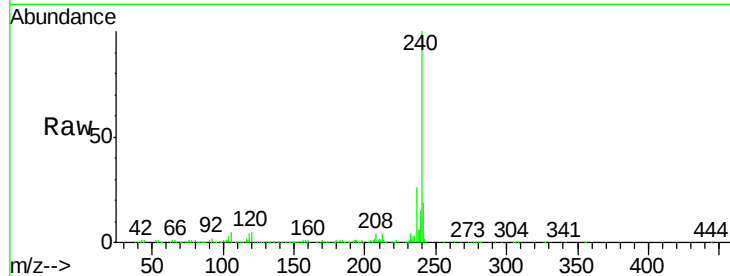
Tgt Ion:240 Resp: 288157

Ion Ratio Lower Upper

240 100

120 4.9 6.8 10.2#

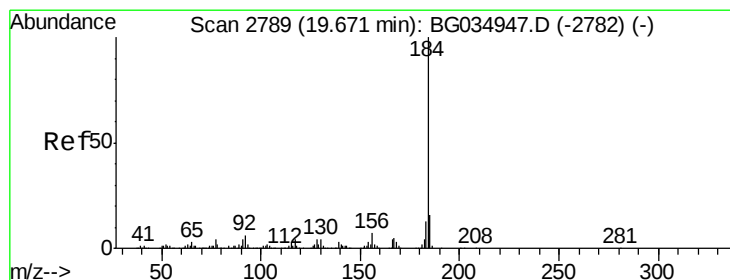
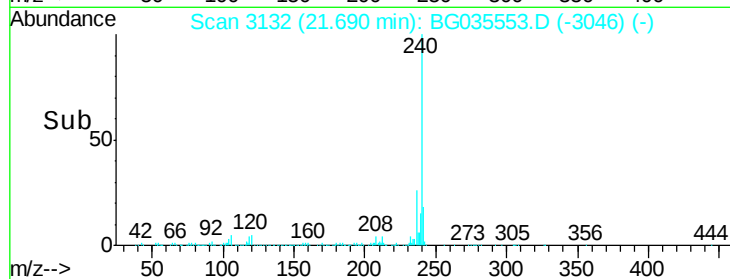
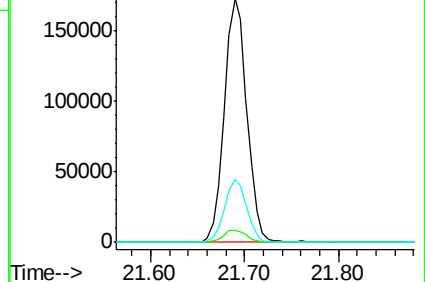
236 25.7 20.9 31.3



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: 2.017 ng

RT: 20.03 min Scan# 2849

Delta R.T. 0.36 min

Lab File: BG035553.D

Acq: 2 Jul 2018 16:23

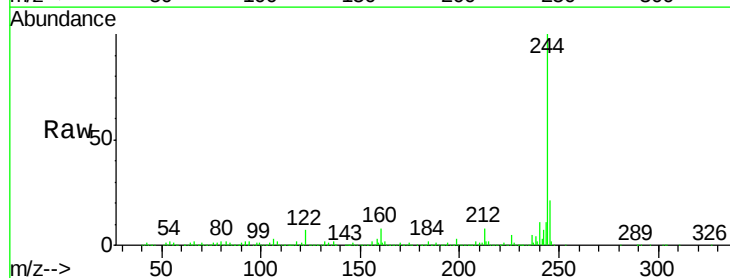
Tgt Ion:184 Resp: 21618

Ion Ratio Lower Upper

184 100

185 15.8 11.1 16.7

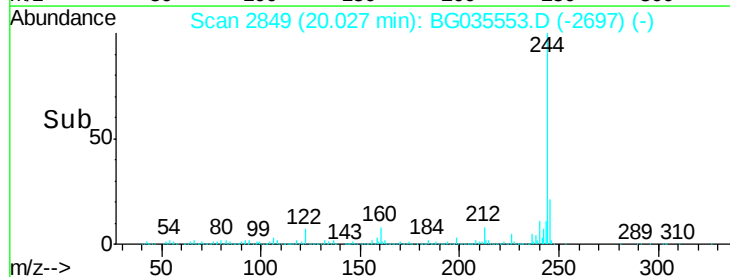
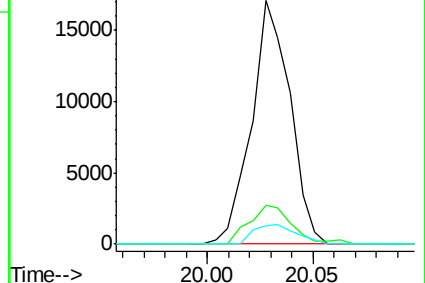
183 7.7 10.6 16.0#

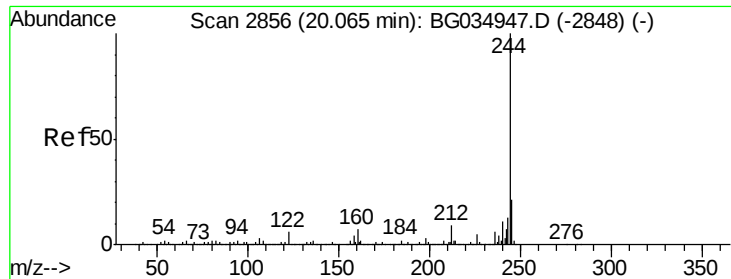


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Terphenyl-d14

Concen: 93.694 ng

RT: 20.03 min Scan# 2850

Delta R.T. -0.01 min

Lab File: BG035553.D

Acq: 2 Jul 2018 16:23

Instrument :

BNA\_G

ClientSampleId :

ZER-WC-S-01-0-72

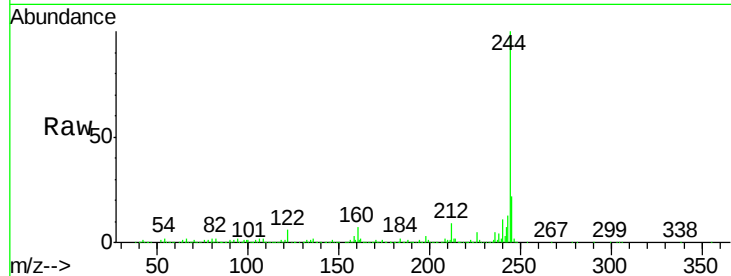
Tgt Ion:244 Resp: 1288915

Ion Ratio Lower Upper

244 100

212 9.0 5.8 8.8#

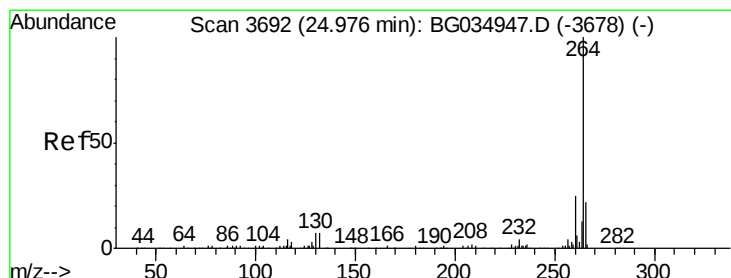
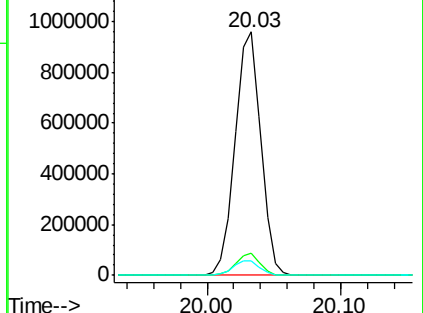
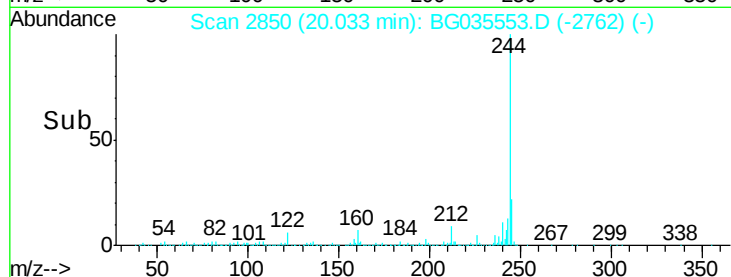
122 5.8 7.0 10.4#



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: 24.91 min Scan# 3681

Delta R.T. -0.04 min

Lab File: BG035553.D

Acq: 2 Jul 2018 16:23

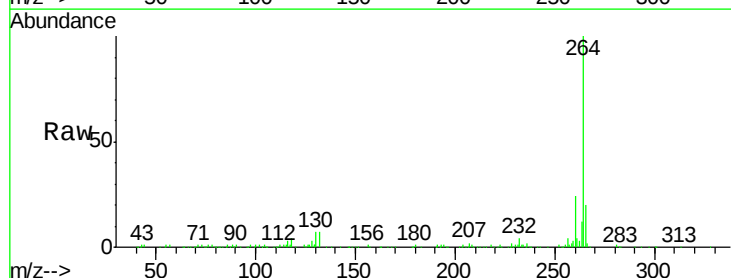
Tgt Ion:264 Resp: 272127

Ion Ratio Lower Upper

264 100

260 23.8 17.4 26.0

265 19.9 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

