

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA G\DATA\BG022818\  
 Data File : BG032898.D  
 Acq On : 28 Feb 2018 21:43  
 Operator : SJ/JU  
 Sample : J1699-16  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Mar 01 01:28:47 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 26 17:50:45 2018  
 Response via : Initial Calibration

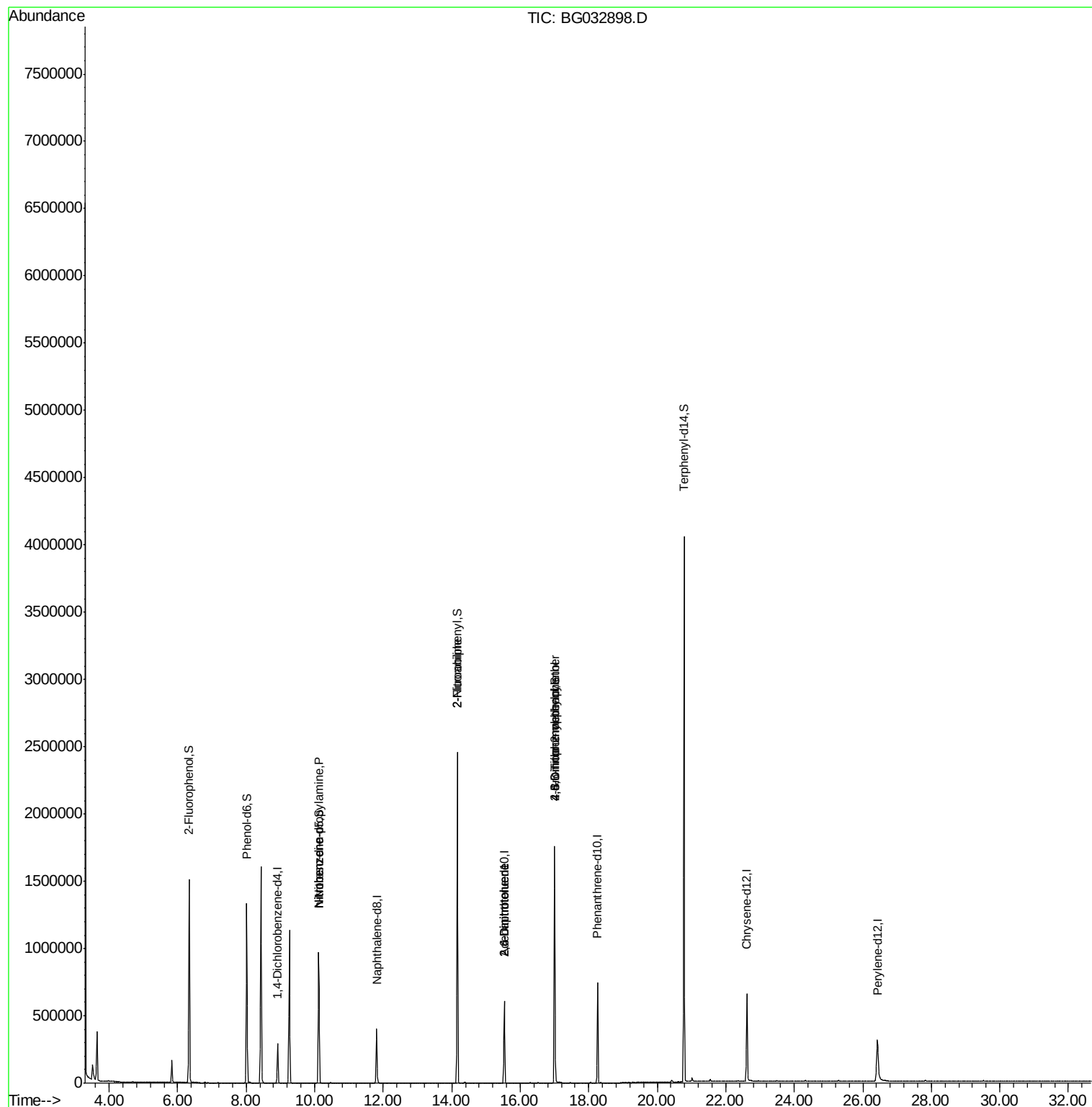
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.92  | 152  | 85872    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 11.81 | 136  | 374839   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 15.53 | 164  | 210366   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 18.26 | 188  | 463239   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 22.62 | 240  | 422204   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 26.42 | 264  | 419778   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.33  | 112  | 727512   | 135.54 | ng    | 0.00     |
| 7) Phenol-d6                   | 8.01  | 99   | 860968   | 115.08 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 10.12 | 82   | 612713   | 110.12 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 17.00 | 330  | 314705   | 142.28 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 14.16 | 172  | 1272856  | 87.27  | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.78 | 244  | 1776944  | 94.56  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 10.12 | 70   | 79062    | 14.969 | ng    | # 84     |
| 24) Nitrobenzene               | 10.12 | 77   | 1649     | 6.620  | ng    | # 34     |
| 47) 2-Nitroaniline             | 14.16 | 65   | 2380     | 10.382 | ng    | # 1      |
| 50) 2,6-Dinitrotoluene         | 15.53 | 165  | 28277    | 16.690 | ng    | # 20     |
| 56) 2,4-Dinitrotoluene         | 15.53 | 165  | 28277    | 14.889 | ng    | # 18     |
| 64) 4,6-Dinitro-2-methylphenol | 17.00 | 198  | 819      | 5.700  | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 17.00 | 248  | 23471    | 4.792  | ng    | # 1      |

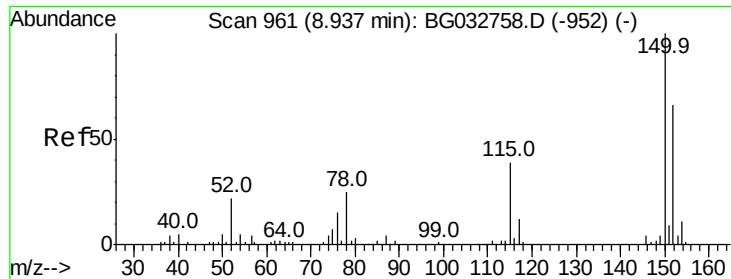
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 11 Sample Multiplier: 1

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BNA\_G  
ClientSampleId :

Quant Time: Mar 01 01:28:47 2018  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022118.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Feb 26 17:50:45 2018  
Response via : Initial Calibration



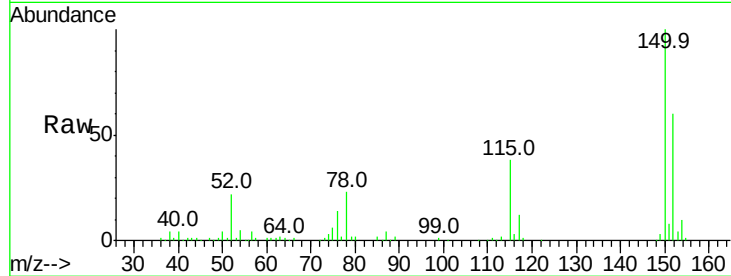


#1

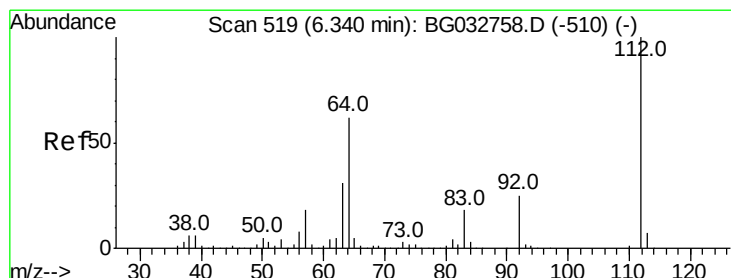
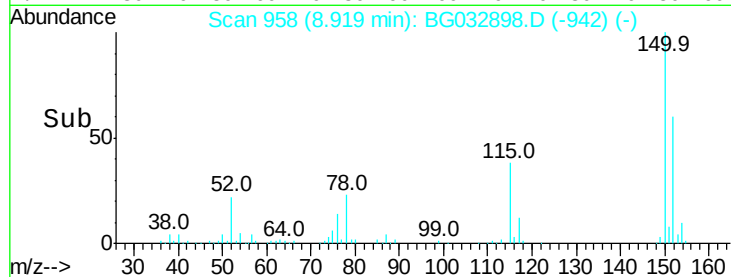
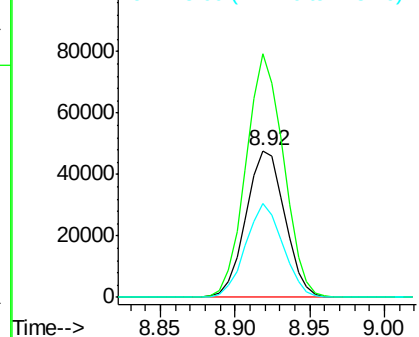
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.92 min Scan# 958  
Delta R.T. -0.01 min  
Lab File: BG032898.D  
Acq: 28 Feb 2018 21:43

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:152 Resp: 85872  
Ion Ratio Lower Upper  
152 100  
150 166.0 126.6 189.8  
115 63.9 53.0 79.4



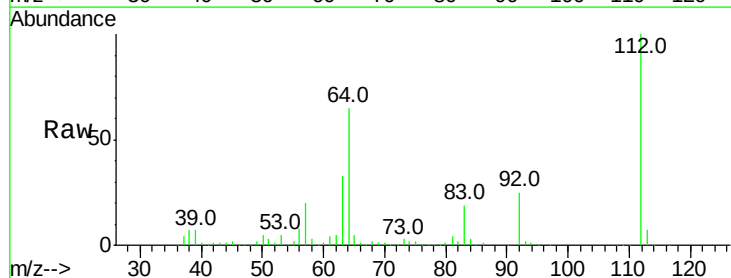
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



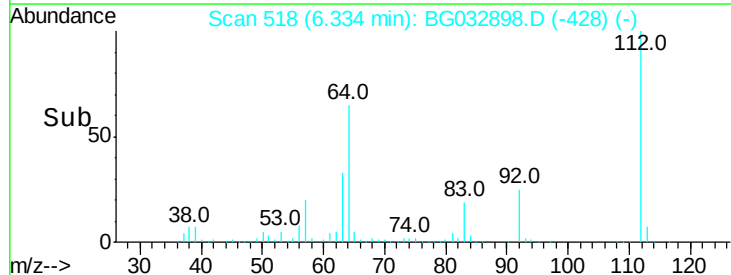
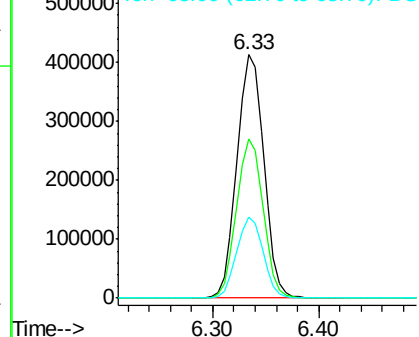
#5

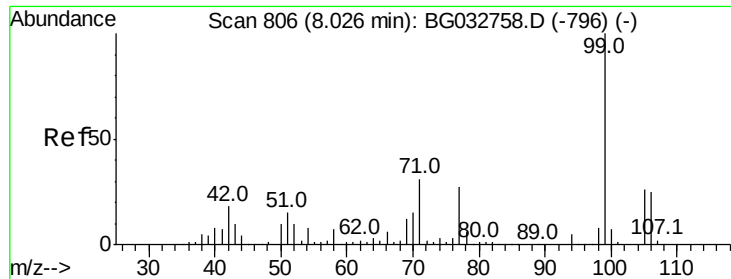
2-Fluorophenol  
Concen: 135.541 ng  
RT: 6.33 min Scan# 518  
Delta R.T. -0.00 min  
Lab File: BG032898.D  
Acq: 28 Feb 2018 21:43

Tgt Ion:112 Resp: 727512  
Ion Ratio Lower Upper  
112 100  
64 65.2 56.3 84.5  
63 33.2 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: 115.079 ng

RT: 8.01 min Scan# 804

Delta R.T. -0.00 min

Lab File: BG032898.D

Acq: 28 Feb 2018 21:43

Instrument :

BNA\_G

ClientSampleId :

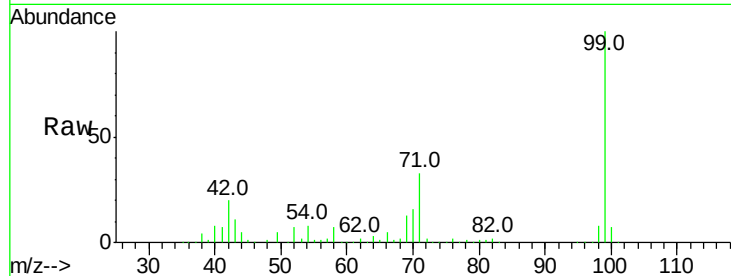
Tot Ion: 99 Resp: 860968

Ion Ratio Lower Upper

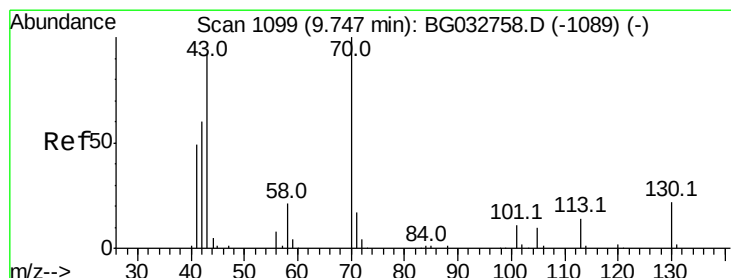
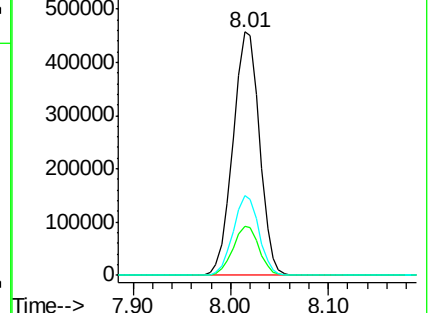
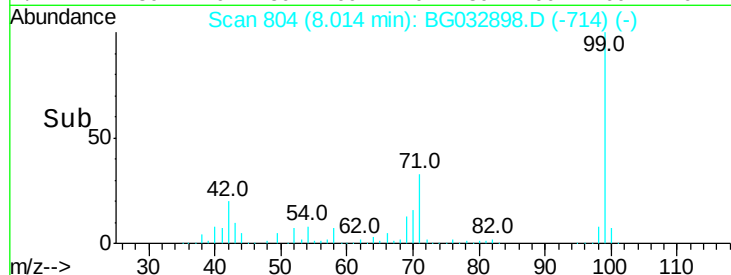
99 100

42 19.9 14.1 21.1

71 32.7 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: 14.969 ng

RT: 10.12 min Scan# 1162

Delta R.T. 0.38 min

Lab File: BG032898.D

Acq: 28 Feb 2018 21:43

Tgt Ion: 70 Resp: 79062

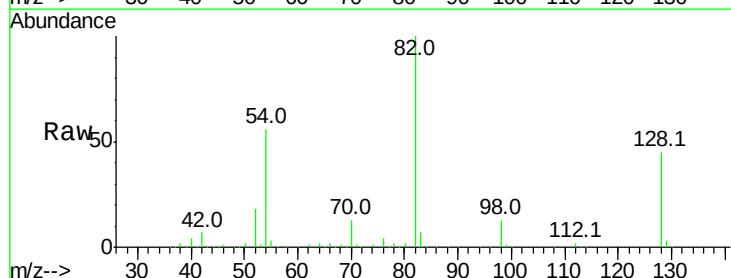
Ion Ratio Lower Upper

70 100

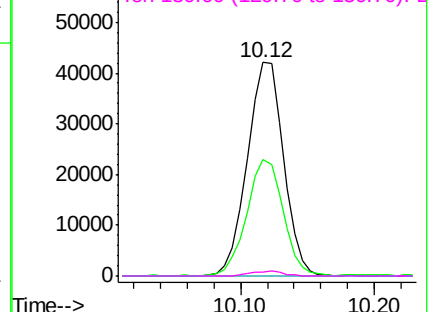
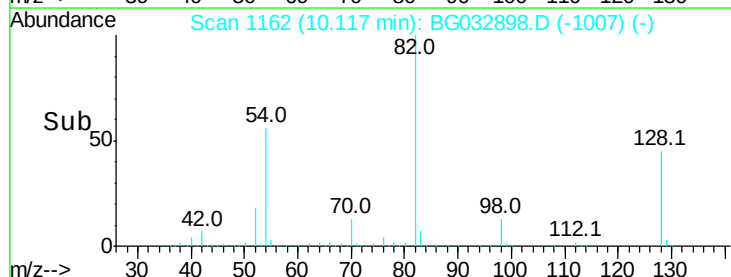
42 54.6 49.1 73.7

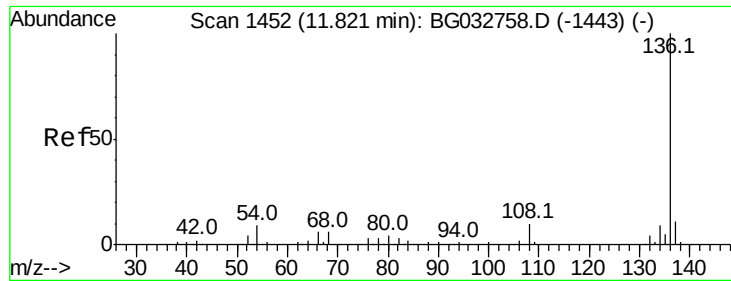
101 0.0 8.5 12.7#

130 2.0 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

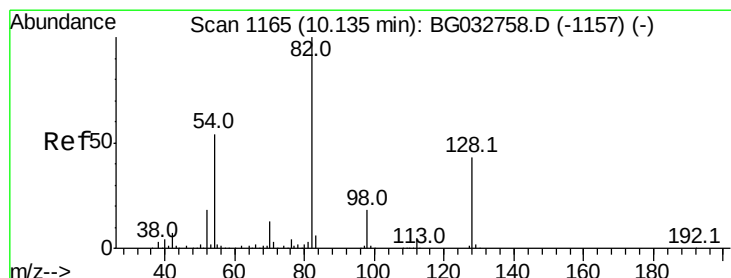
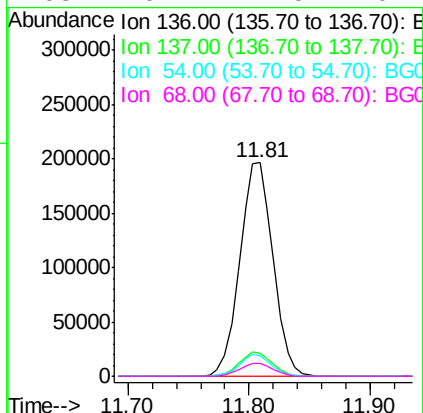
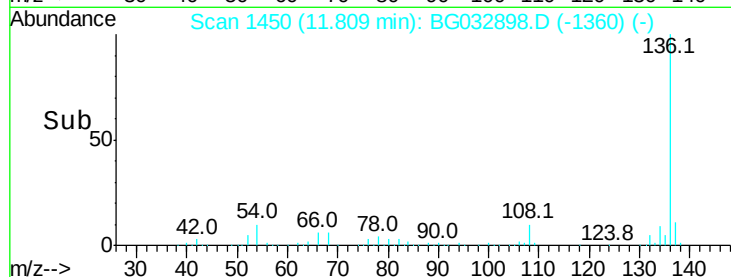
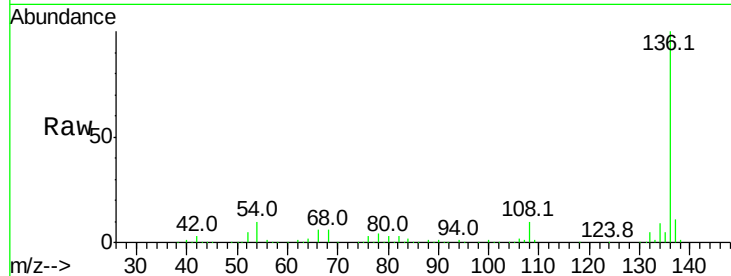




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.81 min Scan# 1450  
Delta R.T. -0.00 min  
Lab File: BG032898.D  
Acq: 28 Feb 2018 21:43

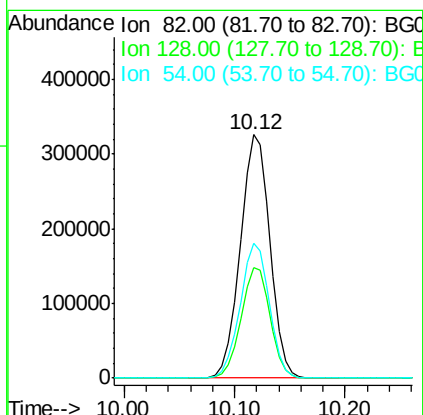
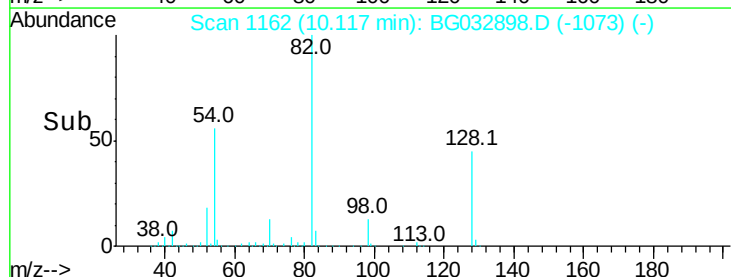
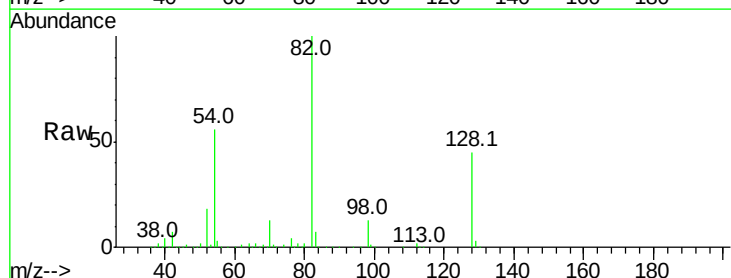
Instrument :  
BNA\_G  
ClientSampleId :

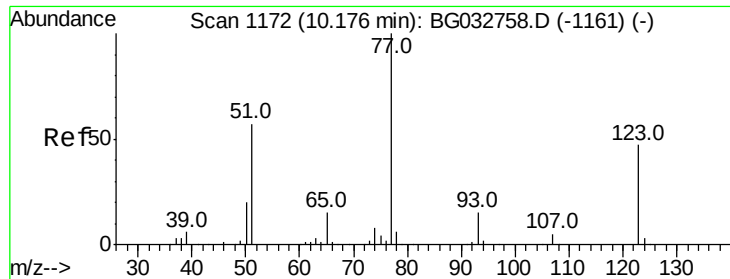
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 374839 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.6  | 9.2   | 13.8   |
| 54       | 9.6   | 10.3  | 15.5#  |
| 68       | 6.2   | 4.5   | 6.7    |



#23  
Nitrobenzene-d5  
Concen: 110.118 ng  
RT: 10.12 min Scan# 1162  
Delta R.T. -0.01 min  
Lab File: BG032898.D  
Acq: 28 Feb 2018 21:43

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 612713 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 45.4  | 29.7  | 44.5#  |
| 54       | 55.6  | 43.1  | 64.7   |





#24

Nitrobenzene

Concen: 6.620 ng

RT: 10.12 min Scan# 1162

Delta R.T. -0.05 min

Lab File: BG032898.D

Acq: 28 Feb 2018 21:43

Instrument :

BNA\_G

ClientSampled :

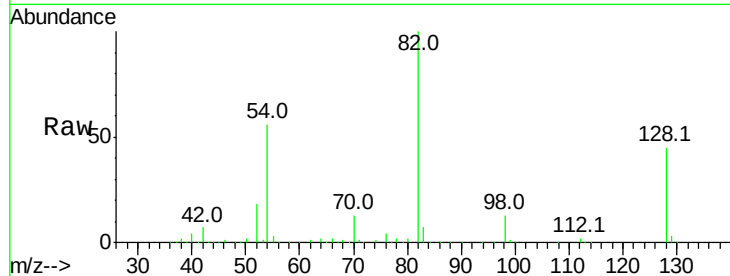
Tot Ion: 77 Resp: 1649

Ion Ratio Lower Upper

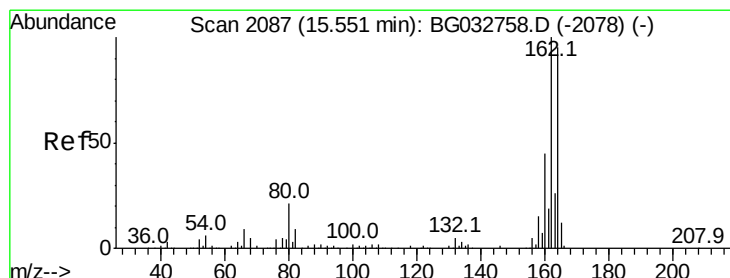
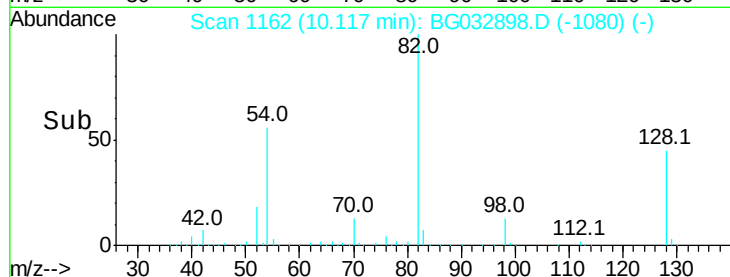
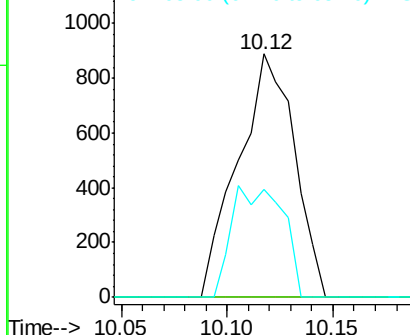
77 100

123 0.0 33.0 49.6#

65 44.4 13.0 19.6#



Abundance Ion 77.00 (76.70 to 77.70): BGC  
Ion 123.00 (122.70 to 123.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 15.53 min Scan# 2084

Delta R.T. -0.01 min

Lab File: BG032898.D

Acq: 28 Feb 2018 21:43

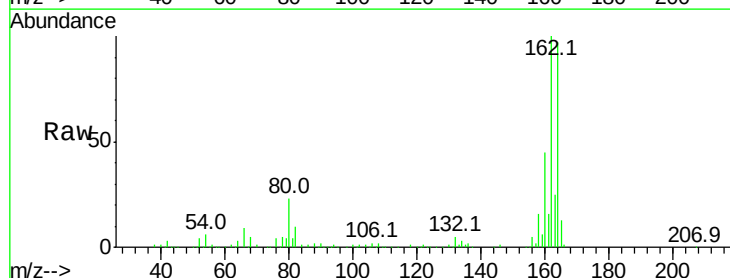
Tgt Ion:164 Resp: 210366

Ion Ratio Lower Upper

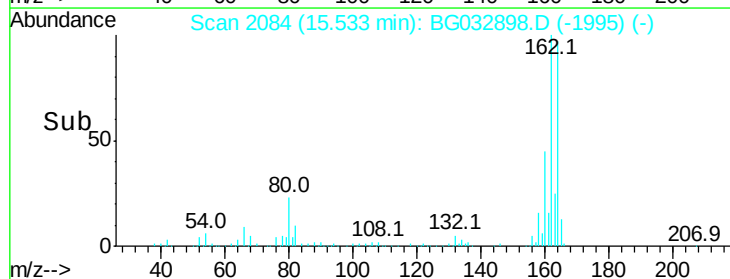
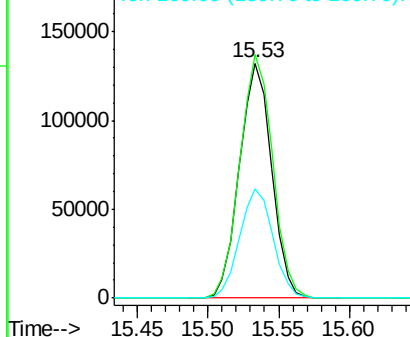
164 100

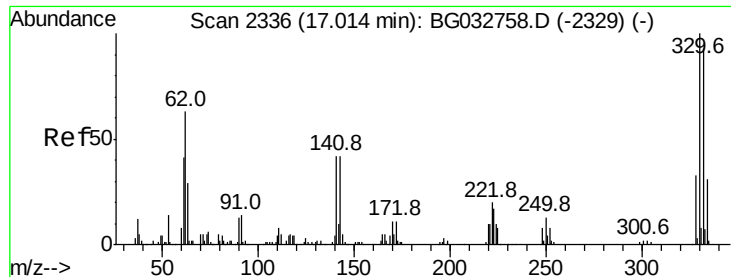
162 103.6 78.8 118.2

160 46.7 35.4 53.0



Abundance Ion 164.00 (163.70 to 164.70): BGC  
Ion 162.00 (161.70 to 162.70): BGC  
Ion 160.00 (159.70 to 160.70): BGC

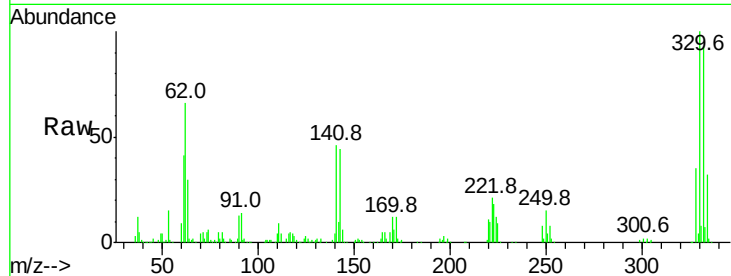




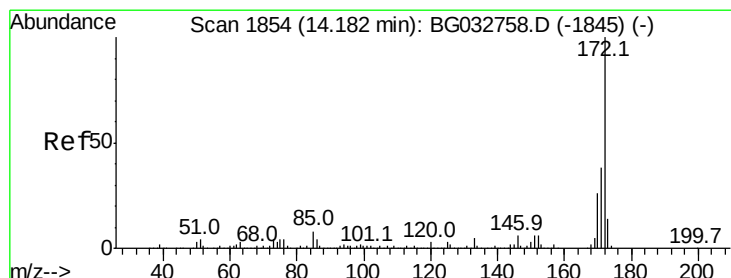
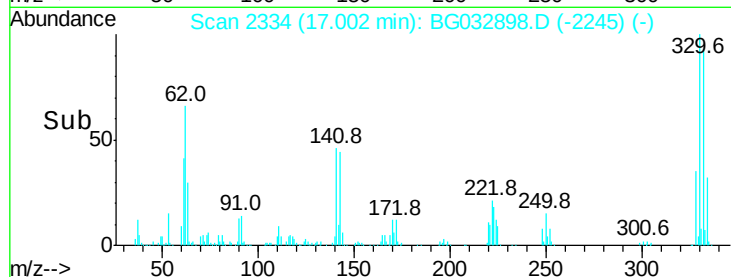
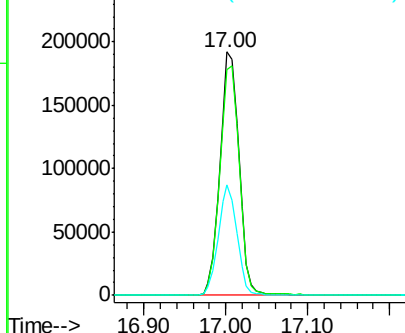
#41  
 2,4,6-Tribromophenol  
 Concen: 142.276 ng  
 RT: 17.00 min Scan# 2334  
 Delta R.T. -0.01 min  
 Lab File: BG032898.D  
 Acq: 28 Feb 2018 21:43

Instrument :  
 BNA\_G  
 ClientSampled :

Tot Ion:330 Resp: 314705  
 Ion Ratio Lower Upper  
 330 100  
 332 96.2 77.0 115.6  
 141 44.4 25.2 37.8#

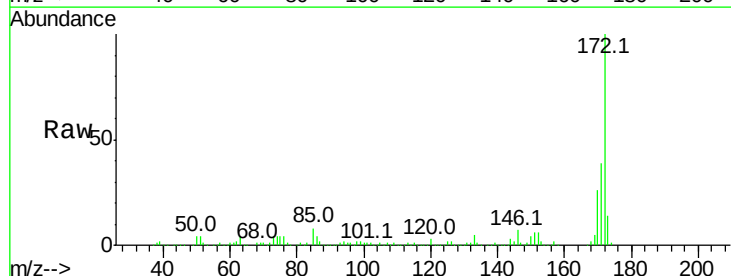


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

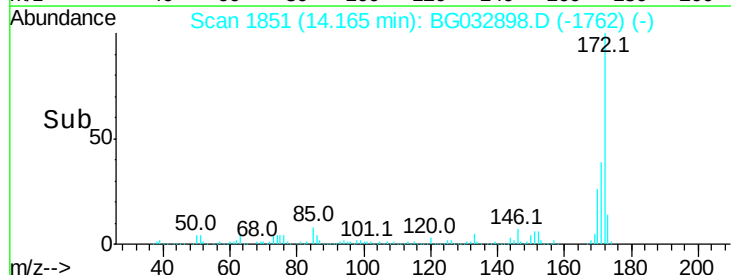
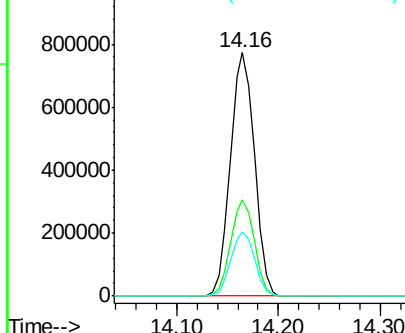


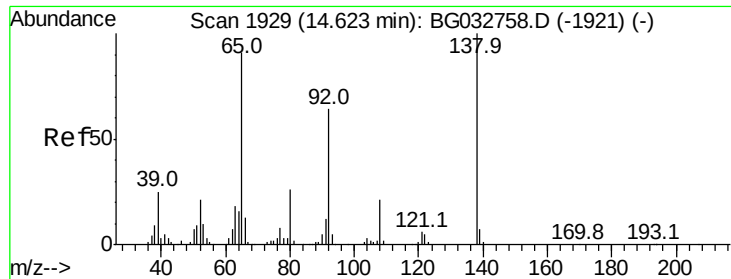
#44  
 2-Fluorobiphenyl  
 Concen: 87.266 ng  
 RT: 14.16 min Scan# 1851  
 Delta R.T. -0.01 min  
 Lab File: BG032898.D  
 Acq: 28 Feb 2018 21:43

Tgt Ion:172 Resp: 1272856  
 Ion Ratio Lower Upper  
 172 100  
 171 39.4 30.0 45.0  
 170 26.2 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





#47

2-Nitroaniline

Concen: 10.382 ng

RT: 14.16 min Scan# 1851

Delta R.T. -0.45 min

Lab File: BG032898.D

Acq: 28 Feb 2018 21:43

Instrument :

BNA\_G

ClientSampled :

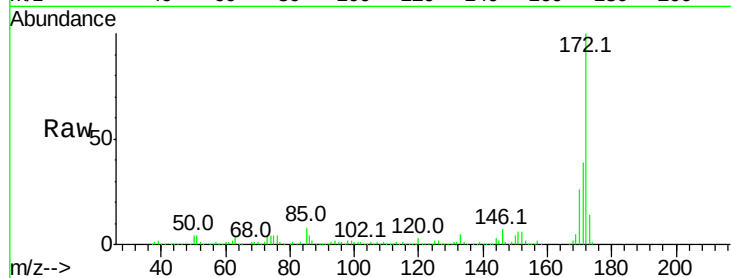
Tot Ion: 65 Resp: 2380

Ion Ratio Lower Upper

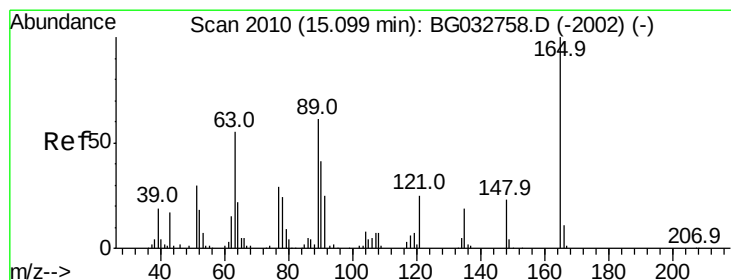
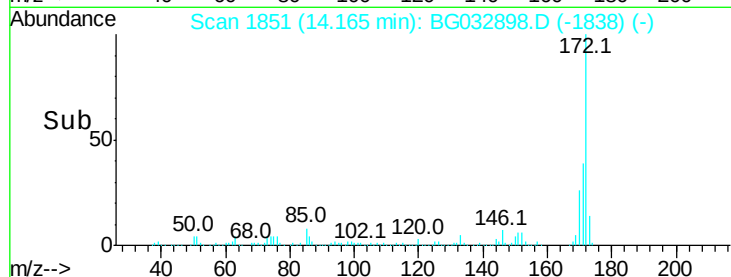
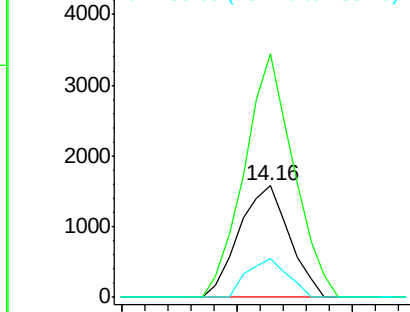
65 100

92 218.8 54.6 82.0#

138 35.3 72.9 109.3#



Abundance Ion 65.00 (64.70 to 65.70): BGC  
Ion 92.00 (91.70 to 92.70): BGC  
Ion 138.00 (137.70 to 138.70): BGC



#50

2,6-Dinitrotoluene

Concen: 16.690 ng

RT: 15.53 min Scan# 2084

Delta R.T. 0.44 min

Lab File: BG032898.D

Acq: 28 Feb 2018 21:43

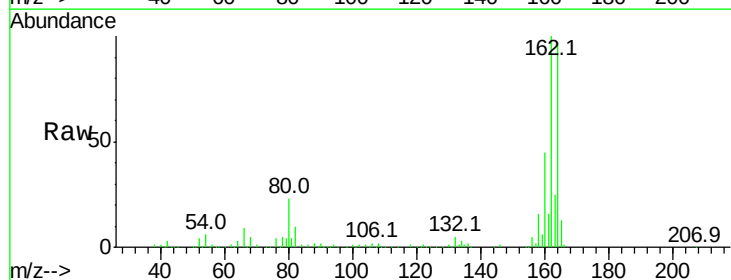
Tgt Ion:165 Resp: 28277

Ion Ratio Lower Upper

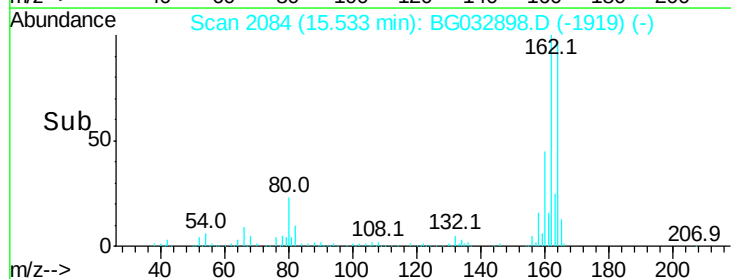
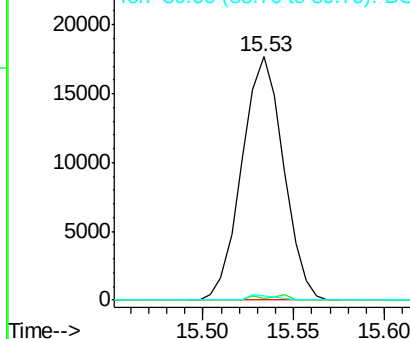
165 100

63 0.9 52.7 79.1#

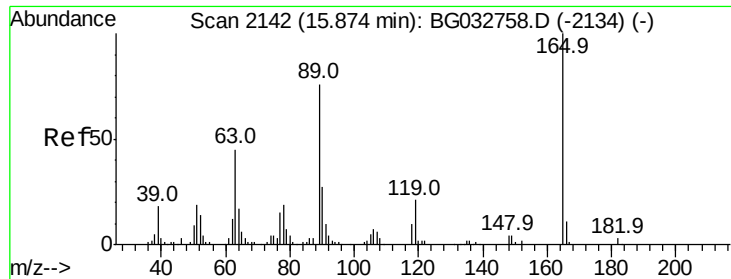
89 1.6 49.2 73.8#



Abundance Ion 165.00 (164.70 to 165.70): BGC  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 89.00 (88.70 to 89.70): BGC



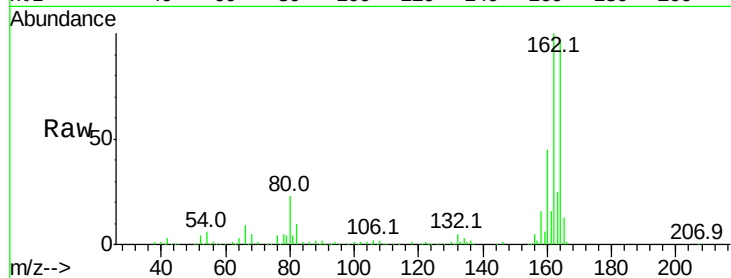




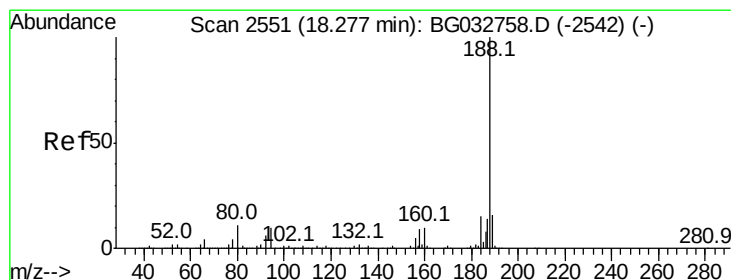
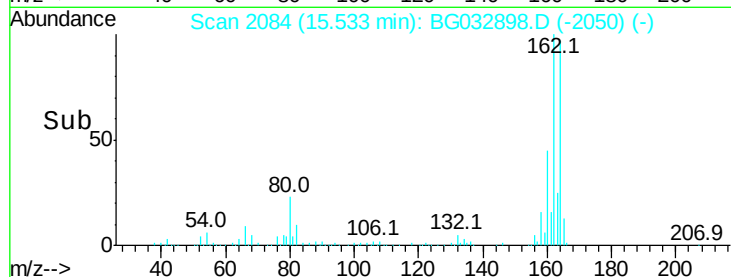
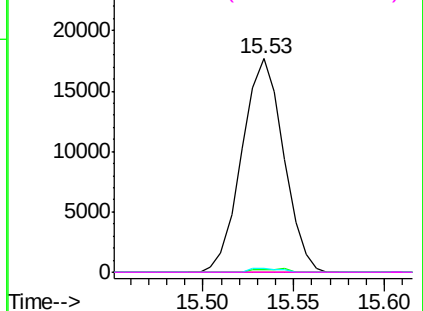
#56  
 2,4-Dinitrotoluene  
 Concen: 14.889 ng  
 RT: 15.53 min Scan# 2084  
 Delta R.T. -0.33 min  
 Lab File: BG032898.D  
 Acq: 28 Feb 2018 21:43

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:165 Resp: 28277  
 Ion Ratio Lower Upper  
 165 100  
 63 0.9 42.0 63.0#  
 89 1.6 66.9 100.3#  
 182 0.0 2.6 3.8#

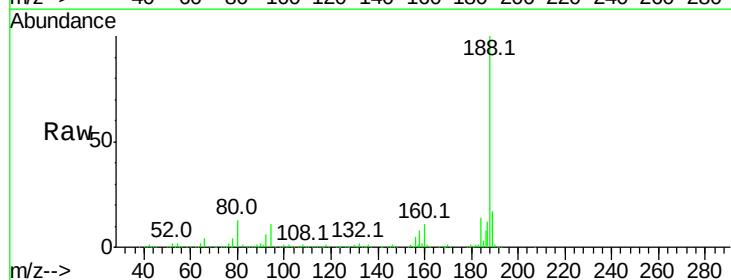


Abundance Ion 165.00 (164.70 to 165.70): E

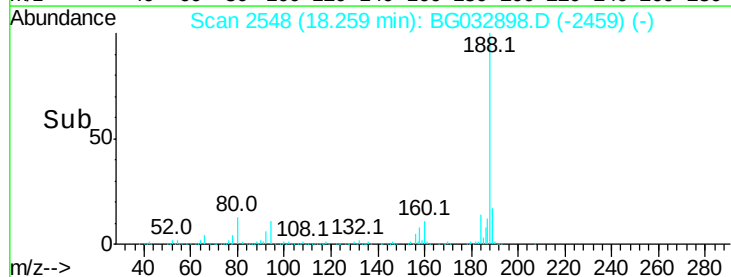
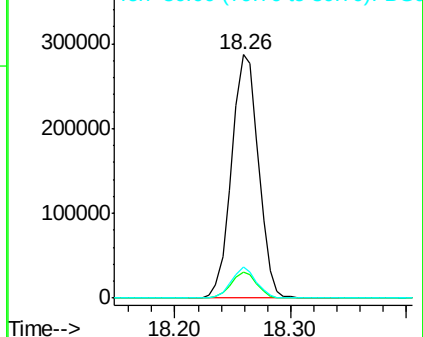


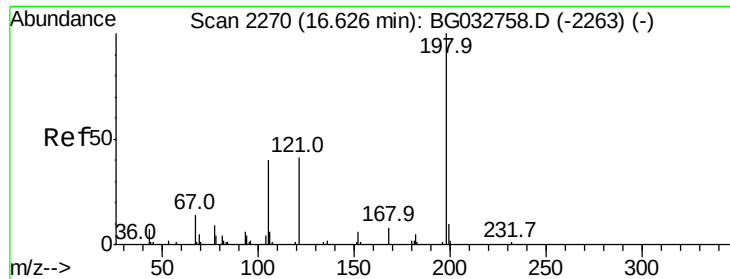
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 18.26 min Scan# 2548  
 Delta R.T. -0.01 min  
 Lab File: BG032898.D  
 Acq: 28 Feb 2018 21:43

Tgt Ion:188 Resp: 463239  
 Ion Ratio Lower Upper  
 188 100  
 94 10.7 6.9 10.3#  
 80 12.7 7.7 11.5#



Abundance Ion 188.00 (187.70 to 188.70): E





#64

4,6-Dinitro-2-methylphenol

Concen: 5.700 ng

RT: 17.00 min Scan# 2334

Delta R.T. 0.38 min

Lab File: BG032898.D

Acq: 28 Feb 2018 21:43

Instrument :

BNA\_G

ClientSampled :

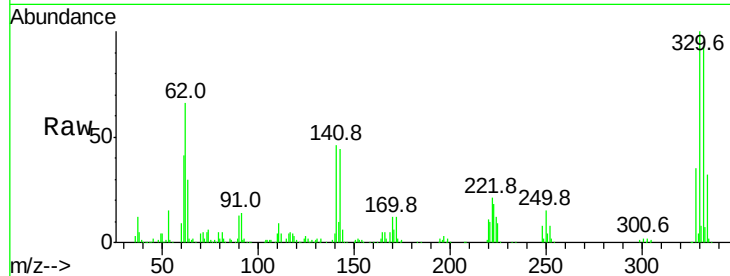
Tot Ion:198 Resp: 819

Ion Ratio Lower Upper

198 100

51 142.5 30.6 70.6#

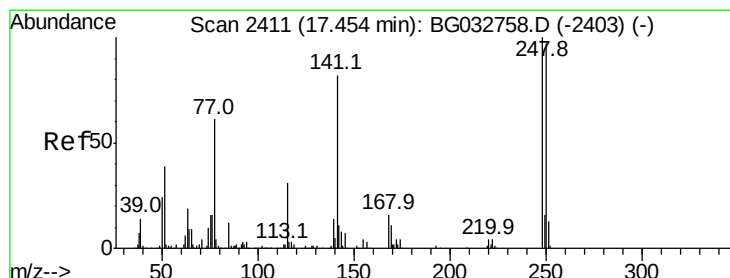
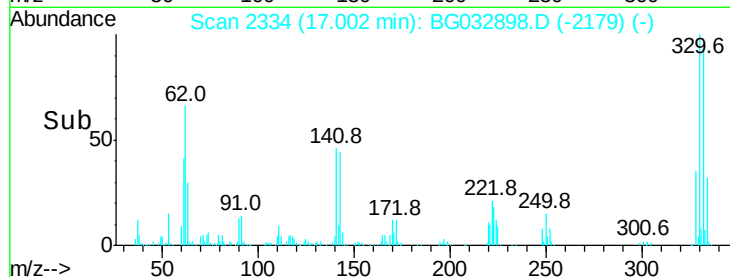
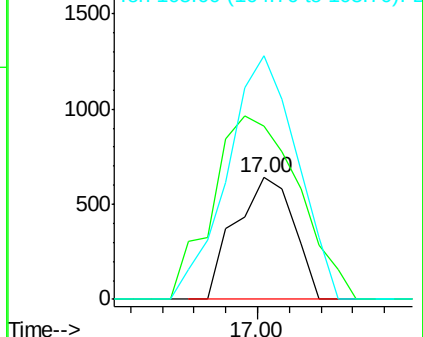
105 199.8 23.8 63.8#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BG0

Ion 105.00 (104.70 to 105.70): E



#66

4-Bromophenyl-phenylether

Concen: 4.792 ng

RT: 17.00 min Scan# 2334

Delta R.T. -0.44 min

Lab File: BG032898.D

Acq: 28 Feb 2018 21:43

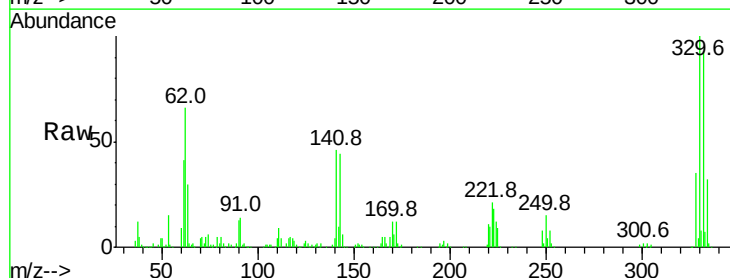
Tgt Ion:248 Resp: 23471

Ion Ratio Lower Upper

248 100

250 195.3 77.1 115.7#

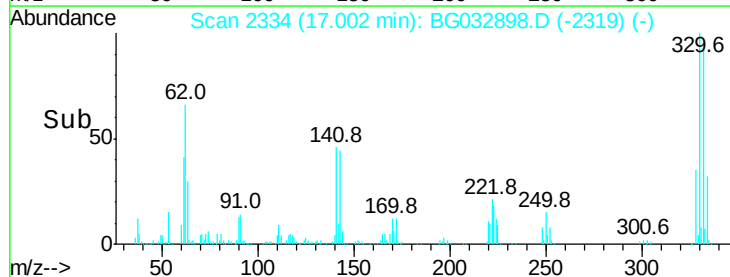
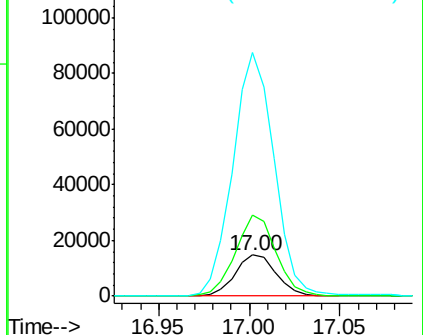
141 591.1 50.8 76.2#

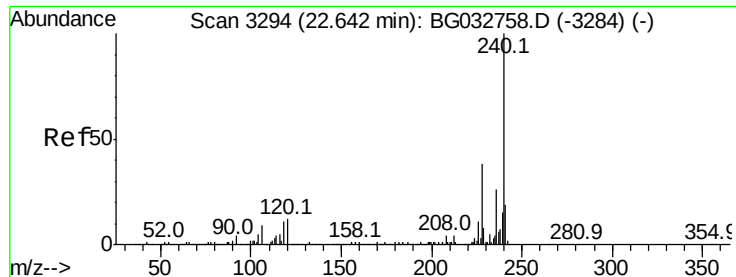


Abundance Ion 248.00 (247.70 to 248.70): E

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: 22.62 min Scan# 3290

Delta R.T. -0.01 min

Lab File: BG032898.D

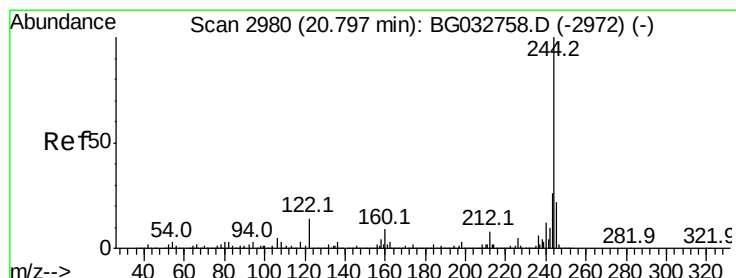
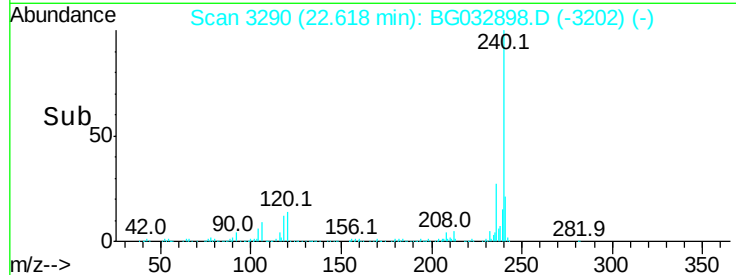
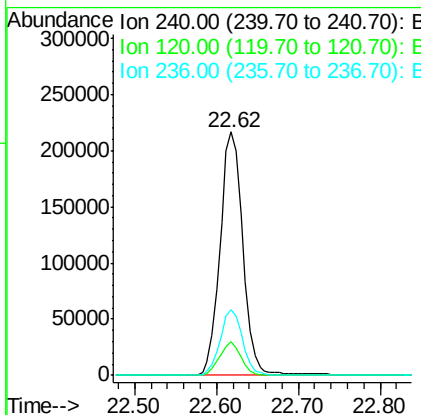
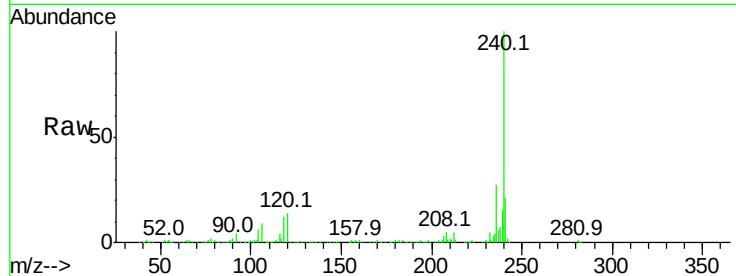
Acq: 28 Feb 2018 21:43

Instrument :

BNA\_G

ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 13.7  | 6.8   | 10.2# |
| 236     | 27.0  | 20.9  | 31.3  |



#78

Terphenyl-d14

Concen: 94.559 ng

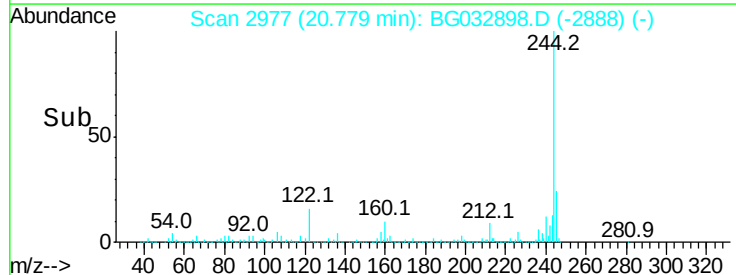
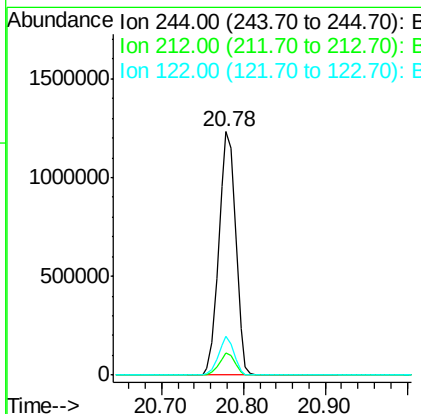
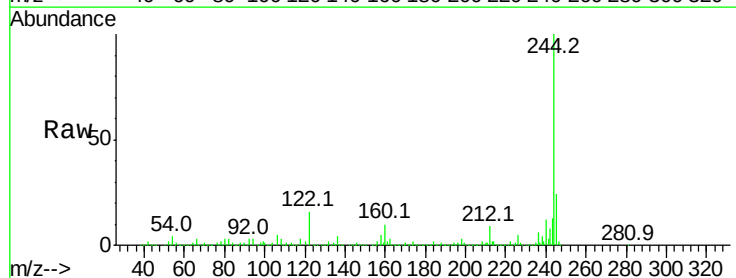
RT: 20.78 min Scan# 2977

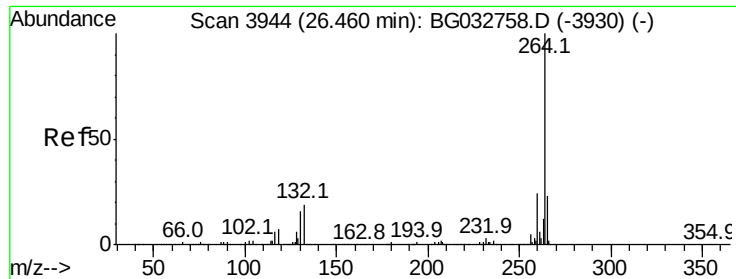
Delta R.T. -0.01 min

Lab File: BG032898.D

Acq: 28 Feb 2018 21:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 9.1   | 5.8   | 8.8#  |
| 122     | 15.7  | 7.0   | 10.4# |

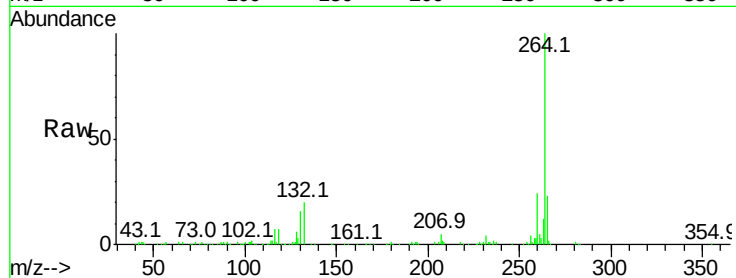




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 26.42 min Scan# 3938  
Delta R.T. -0.01 min  
Lab File: BG032898.D  
Acq: 28 Feb 2018 21:43

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.0  | 17.4  | 26.0  |
| 265     | 23.1  | 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

