

Data File : BG033399.D  
Acq On : 28 Mar 2018 23:21  
Operator : SJ/JU  
Sample : J2097-05  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
MW-9

Quant Time: Mar 29 06:32:54 2018  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG031918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 28 18:34:58 2018  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.87  | 152  | 44281    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 11.75 | 136  | 180018   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 15.48 | 164  | 132055   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 18.21 | 188  | 319082   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 22.56 | 240  | 331296   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 26.33 | 264  | 353063   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.30  | 112  | 142179   | 60.21  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.99  | 99   | 128312   | 31.62  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 10.07 | 82   | 346688   | 88.48  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.96 | 330  | 253159   | 128.18 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 14.12 | 172  | 855428   | 93.52  | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.74 | 244  | 1366153  | 88.19  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 10.07 | 70   | 47556    | 15.99  | ng    | # 76     |
| 50) 2,6-Dinitrotoluene         | 15.48 | 165  | 17809    | 7.58   | ng    | # 20     |
| 53) 2,4-Dinitrophenol          | 15.53 | 184  | 63       | 7.69   | ng    | # 1      |
| 56) 2,4-Dinitrotoluene         | 15.48 | 165  | 17809    | 5.15   | ng    | # 18     |
| 66) 4-Bromophenyl-phenylether  | 16.95 | 248  | 19616    | 5.23   | ng    | # 1      |
| 76) Benzidine                  | 20.73 | 184  | 21787    | 2.43   | ng    | # 94     |

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

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ALS Vial : 14 Sample Multiplier: 1

Instrument :

BNA\_G

ClientSampleId :

MW-9

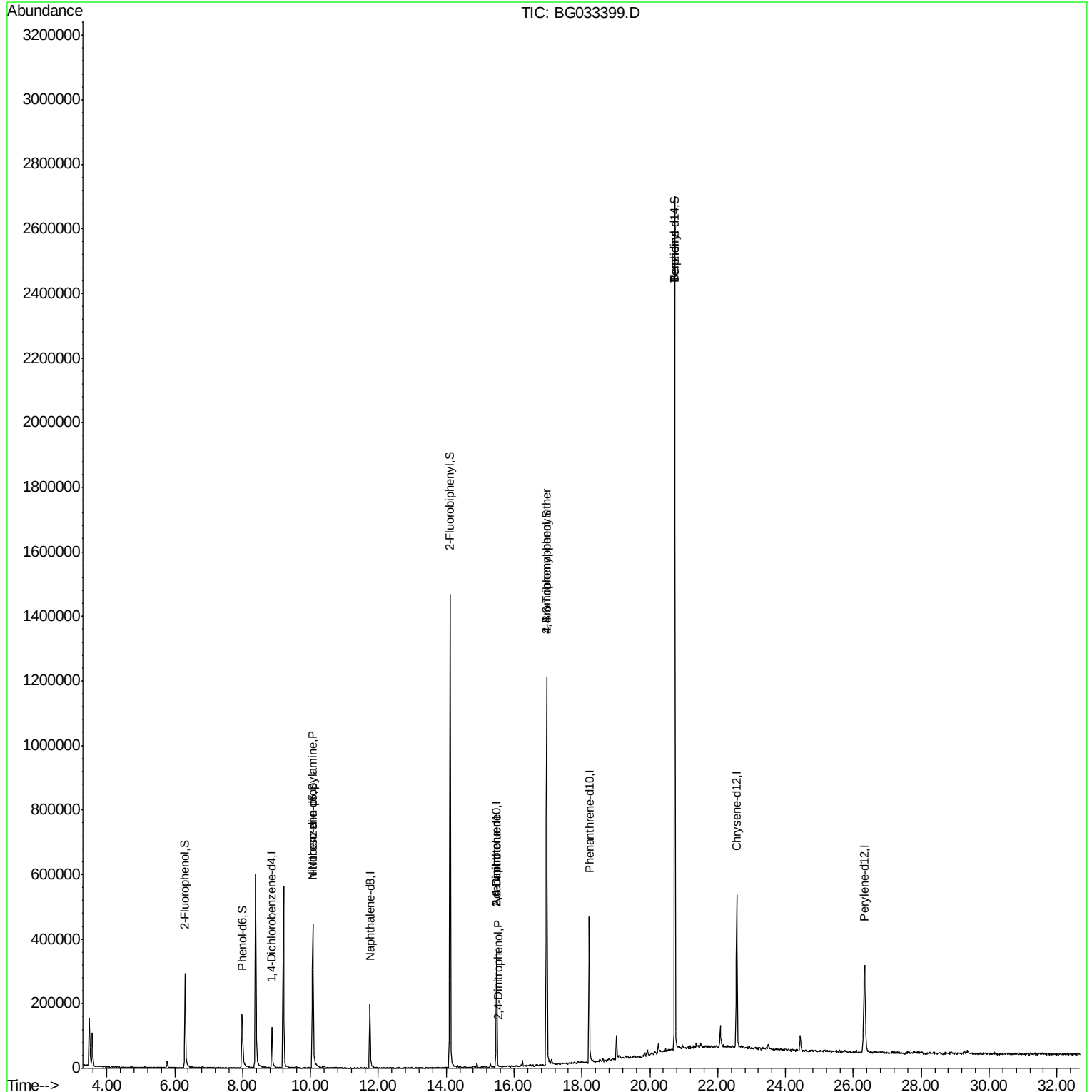
Quant Time: Mar 29 06:32:54 2018

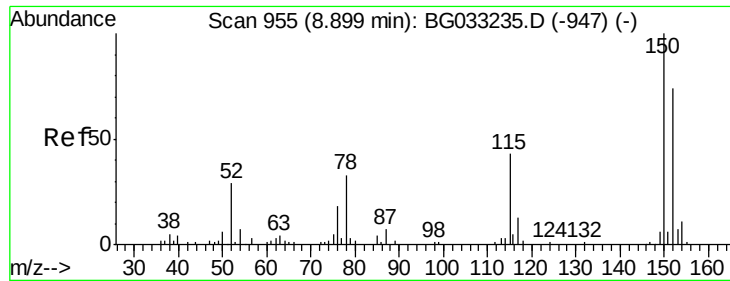
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG031918.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 28 18:34:58 2018

Response via : Initial Calibration



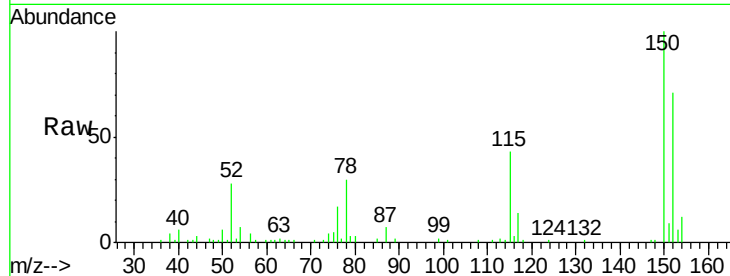


#1

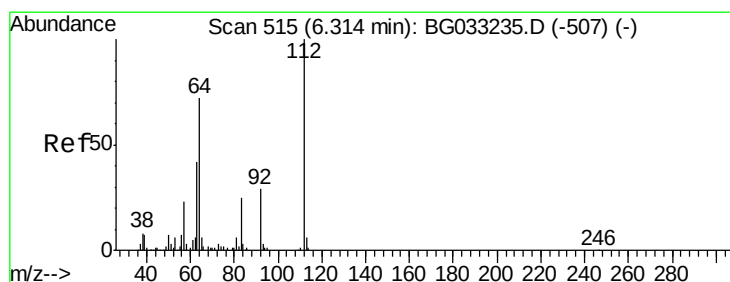
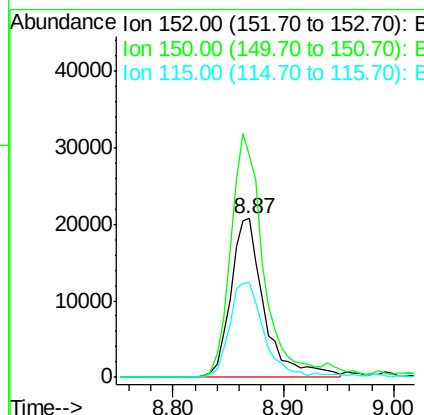
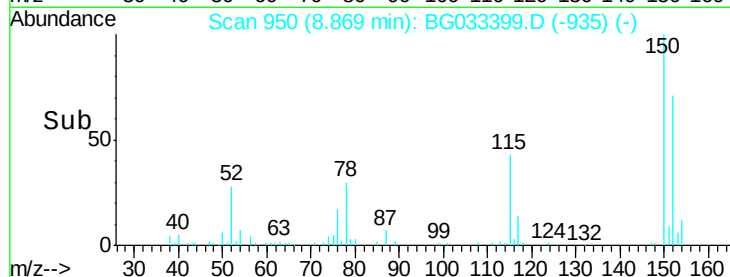
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.87 min Scan# 950  
Delta R.T. -0.01 min  
Lab File: BG033399.D  
Acq: 28 Mar 2018 23:21

Instrument :  
BNA\_G  
ClientSampled :  
MW-9

Tgt Ion:152 Resp: 44281  
Ion Ratio Lower Upper  
152 100  
150 140.1 126.6 189.8  
115 59.6 53.0 79.4



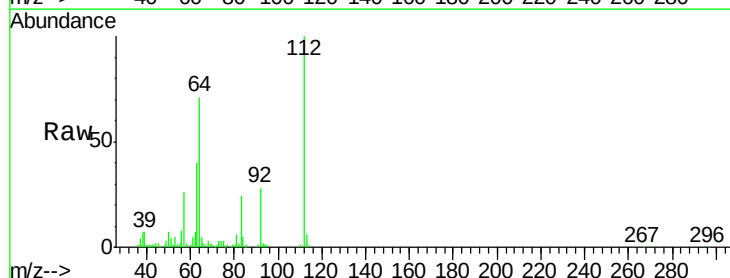
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



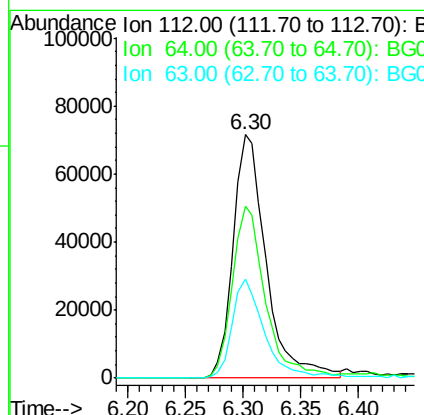
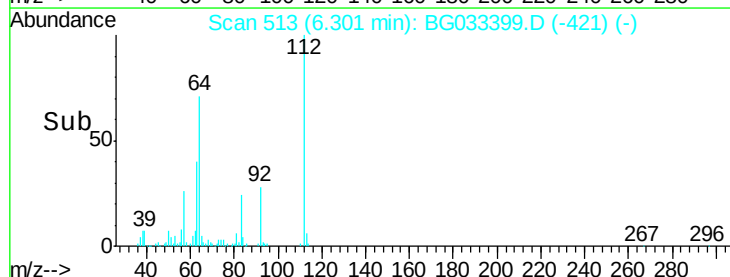
#5

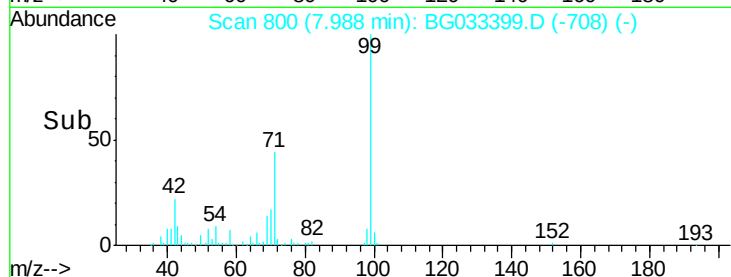
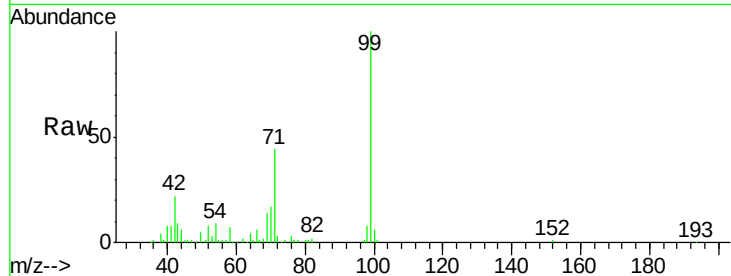
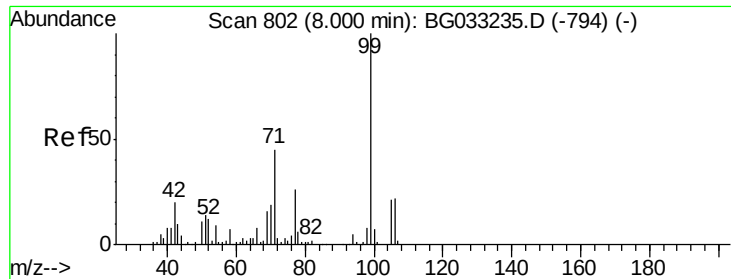
2-Fluorophenol  
Concen: 60.21 ng  
RT: 6.30 min Scan# 513  
Delta R.T. 0.01 min  
Lab File: BG033399.D  
Acq: 28 Mar 2018 23:21

Tgt Ion:112 Resp: 142179  
Ion Ratio Lower Upper  
112 100  
64 70.6 56.3 84.5  
63 40.4 30.1 45.1



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BG0  
Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 31.62 ng

RT: 7.99 min Scan# 800

Delta R.T. 0.01 min

Lab File: BG033399.D

Acq: 28 Mar 2018 23:21

Instrument :

BNA\_G

ClientSampleId :

MW-9

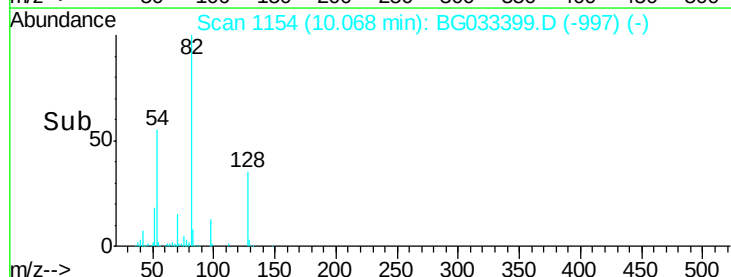
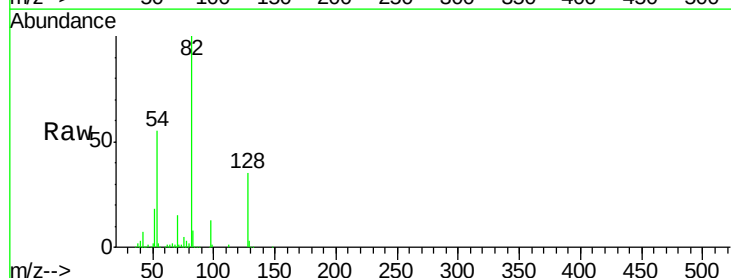
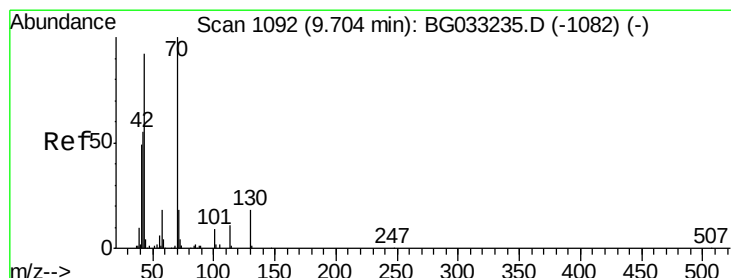
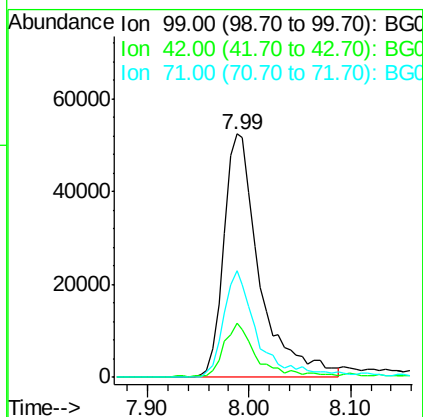
Tgt Ion: 99 Resp: 128312

Ion Ratio Lower Upper

99 100

42 22.2 14.1 21.1#

71 43.8 26.1 39.1#



#19

n-Nitroso-di-n-propylamine

Concen: 15.99 ng

RT: 10.07 min Scan# 1154

Delta R.T. 0.39 min

Lab File: BG033399.D

Acq: 28 Mar 2018 23:21

Tgt Ion: 70 Resp: 47556

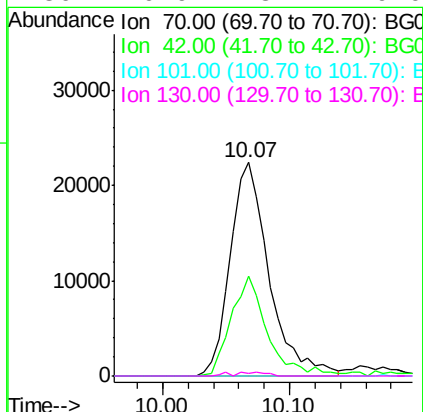
Ion Ratio Lower Upper

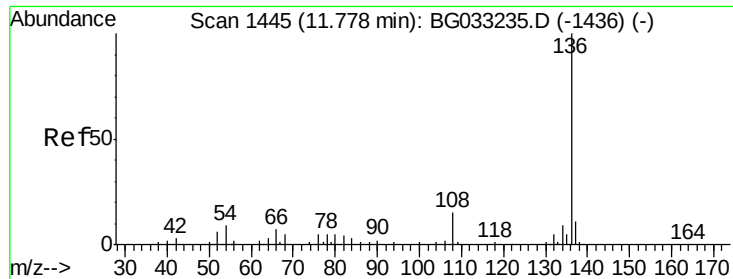
70 100

42 46.7 49.1 73.7#

101 0.0 8.5 12.7#

130 0.9 13.4 20.0#

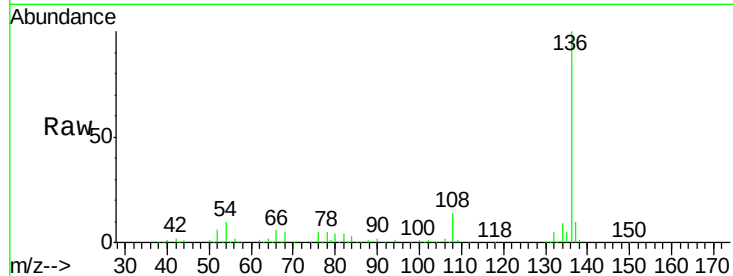




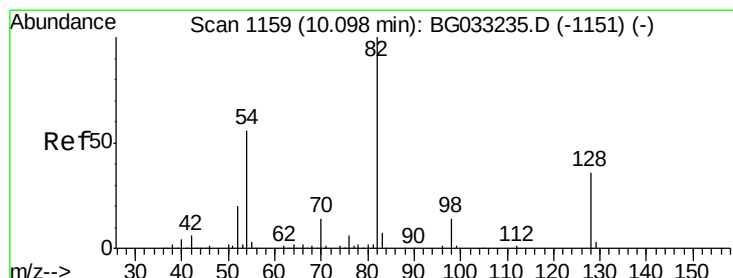
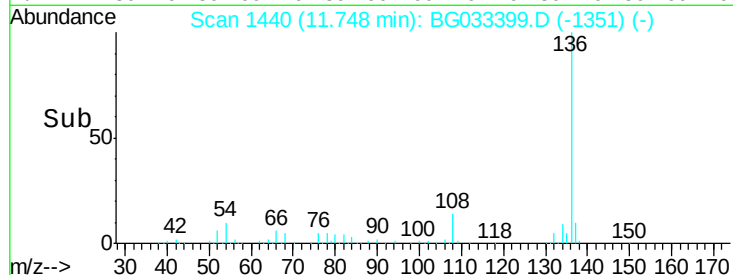
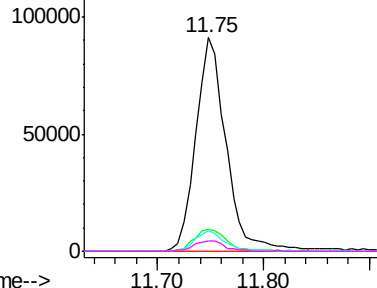
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 11.75 min Scan# 1440  
Delta R.T. -0.01 min  
Lab File: BG033399.D  
Acq: 28 Mar 2018 23:21

Instrument :  
BNA\_G  
ClientSampled :  
MW-9

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 180018 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.3  | 9.2   | 13.8   |
| 54       | 9.7   | 10.3  | 15.5#  |
| 68       | 4.8   | 4.5   | 6.7    |

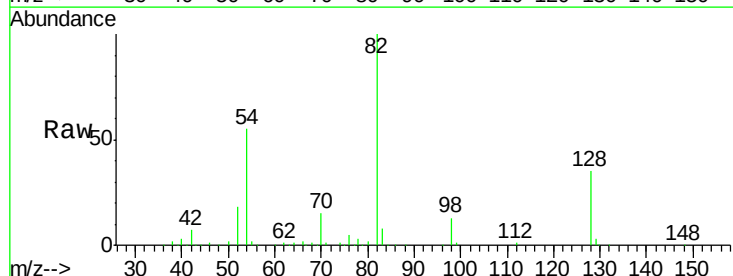


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

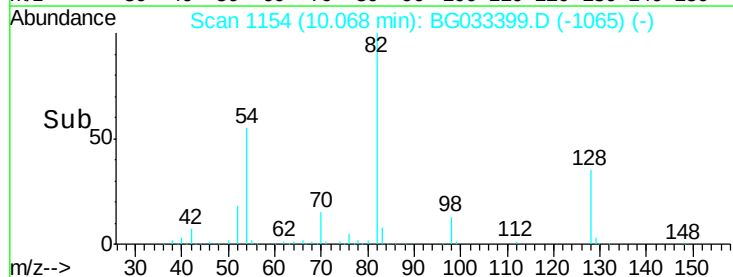
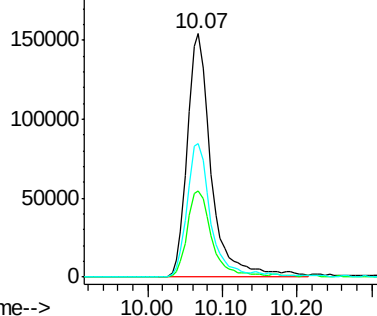


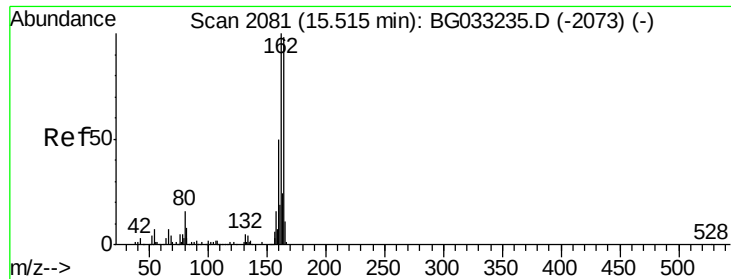
#23  
Nitrobenzene-d5  
Concen: 88.48 ng  
RT: 10.07 min Scan# 1154  
Delta R.T. -0.01 min  
Lab File: BG033399.D  
Acq: 28 Mar 2018 23:21

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 346688 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 35.5  | 29.7  | 44.5   |
| 54       | 54.8  | 43.1  | 64.7   |



Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 15.48 min Scan# 2075

Delta R.T. -0.01 min

Lab File: BG033399.D

Acq: 28 Mar 2018 23:21

Instrument :

BNA\_G

ClientSampled :

MW-9

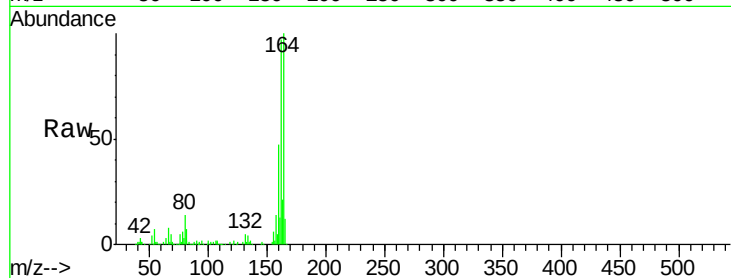
Tgt Ion:164 Resp: 132055

Ion Ratio Lower Upper

164 100

162 97.5 78.8 118.2

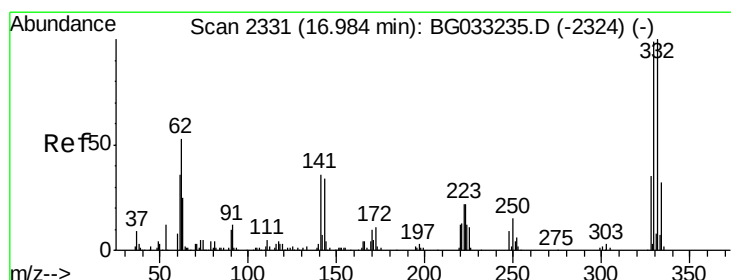
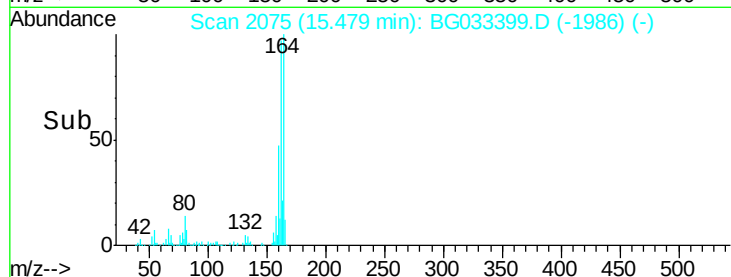
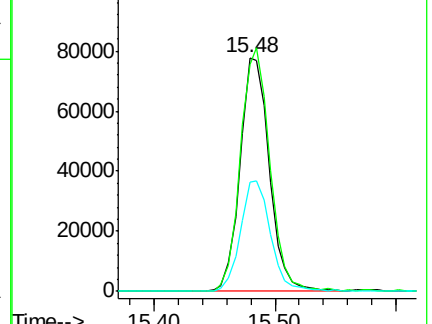
160 46.6 35.4 53.0



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: 128.18 ng

RT: 16.96 min Scan# 2327

Delta R.T. 0.00 min

Lab File: BG033399.D

Acq: 28 Mar 2018 23:21

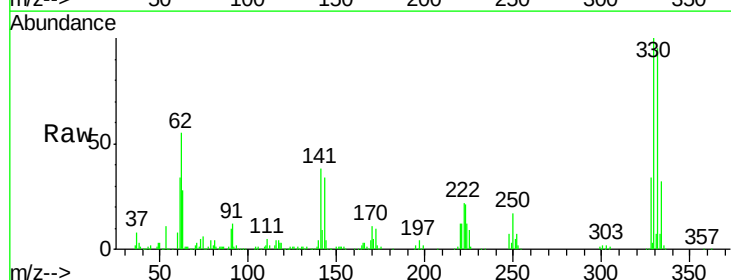
Tgt Ion:330 Resp: 253159

Ion Ratio Lower Upper

330 100

332 96.2 77.0 115.6

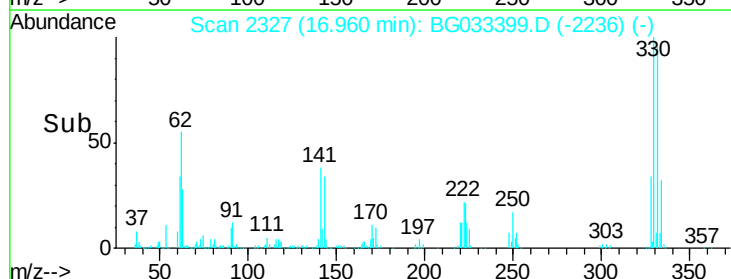
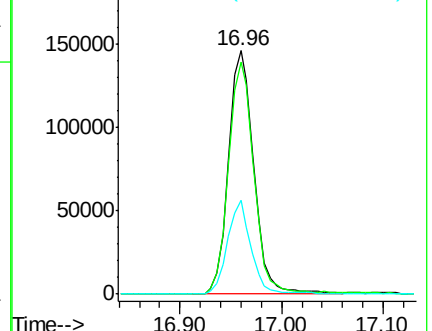
141 35.9 25.2 37.8

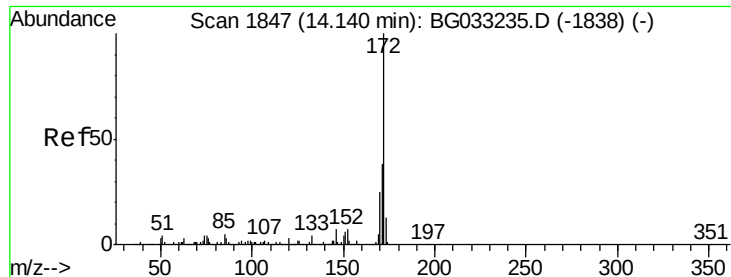


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

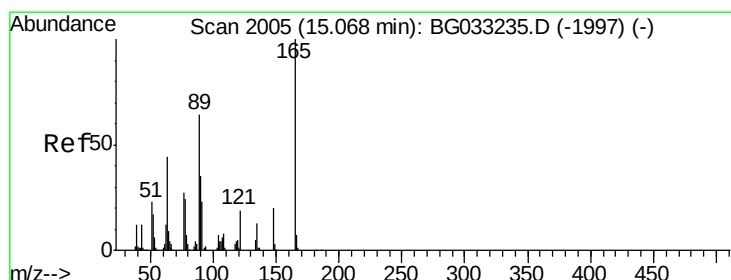
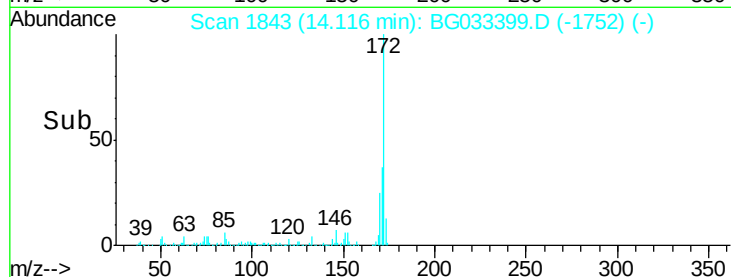
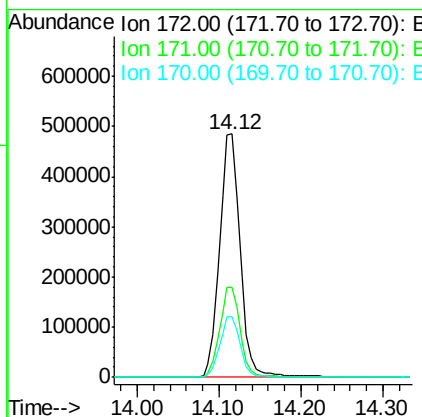
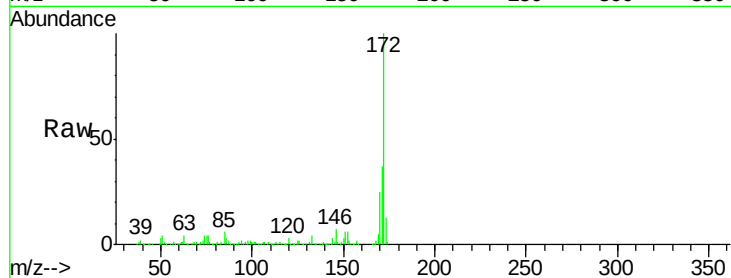




#44  
 2-Fluorobiphenyl  
 Concen: 93.52 ng  
 RT: 14.12 min Scan# 1843  
 Delta R.T. 0.00 min  
 Lab File: BG033399.D  
 Acq: 28 Mar 2018 23:21

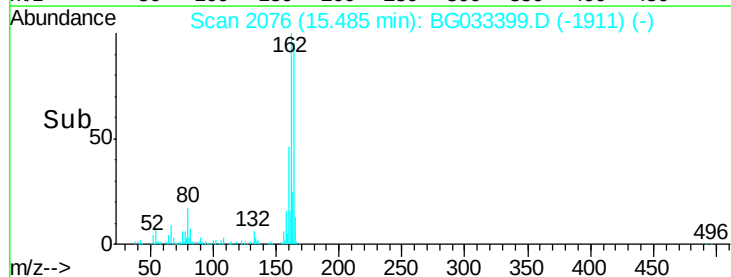
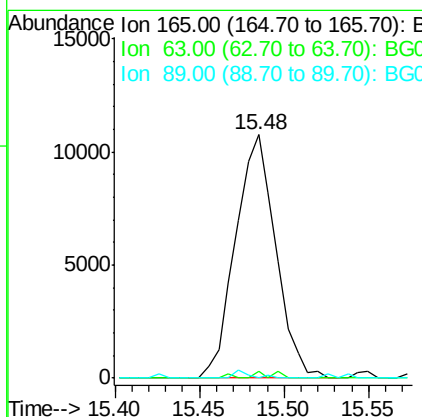
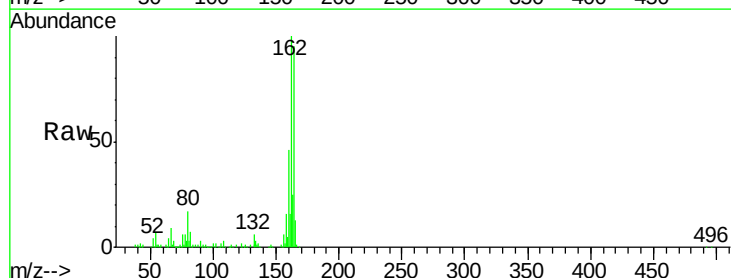
Instrument :  
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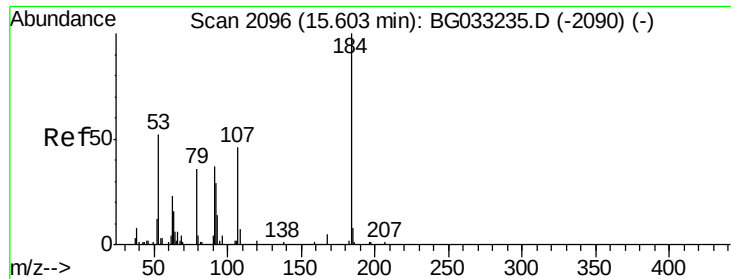
Tgt Ion:172 Resp: 855428  
 Ion Ratio Lower Upper  
 172 100  
 171 37.2 30.0 45.0  
 170 24.9 19.5 29.3



#50  
 2,6-Dinitrotoluene  
 Concen: 7.58 ng  
 RT: 15.48 min Scan# 2076  
 Delta R.T. 0.44 min  
 Lab File: BG033399.D  
 Acq: 28 Mar 2018 23:21

Tgt Ion:165 Resp: 17809  
 Ion Ratio Lower Upper  
 165 100  
 63 2.9 52.7 79.1#  
 89 0.0 49.2 73.8#

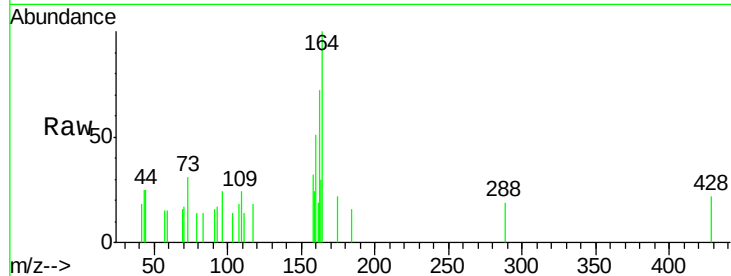




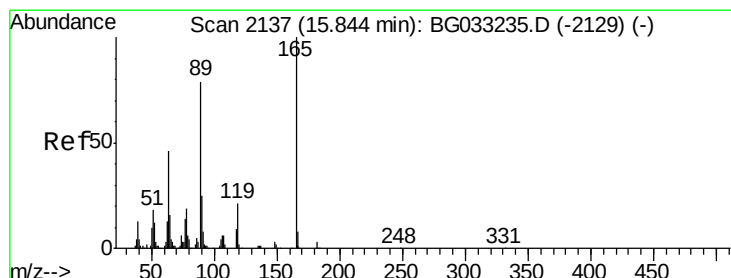
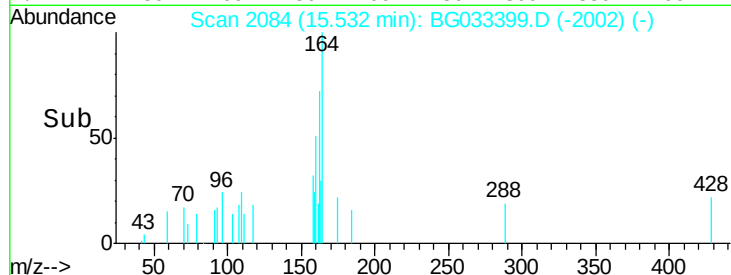
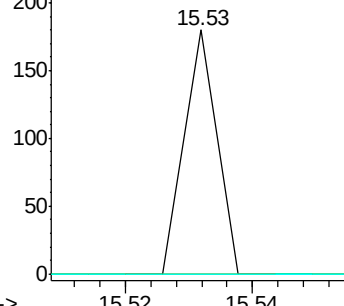
#53  
2,4-Dinitrophenol  
Concen: 7.69 ng  
RT: 15.53 min Scan# 2084  
Delta R.T. -0.05 min  
Lab File: BG033399.D  
Acq: 28 Mar 2018 23:21

Instrument :  
BNA\_G  
ClientSampleId :  
MW-9

Tgt Ion:184 Resp: 63  
Ion Ratio Lower Upper  
184 100  
63 0.0 59.8 89.8#  
154 0.0 101.8 152.8#

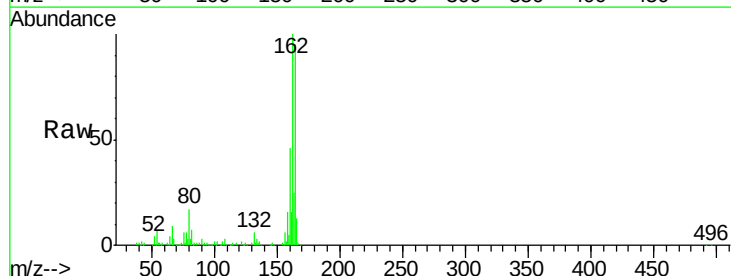


Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 154.00 (153.70 to 154.70): E

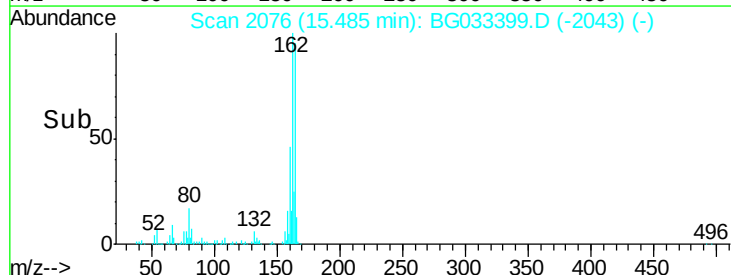
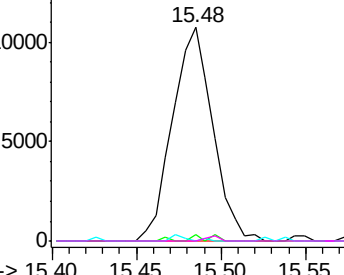


#56  
2,4-Dinitrotoluene  
Concen: 5.15 ng  
RT: 15.48 min Scan# 2076  
Delta R.T. -0.34 min  
Lab File: BG033399.D  
Acq: 28 Mar 2018 23:21

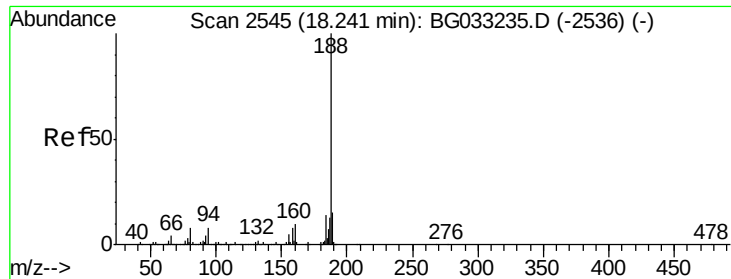
Tgt Ion:165 Resp: 17809  
Ion Ratio Lower Upper  
165 100  
63 2.9 42.0 63.0#  
89 0.0 66.9 100.3#  
182 0.0 2.6 3.8#



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



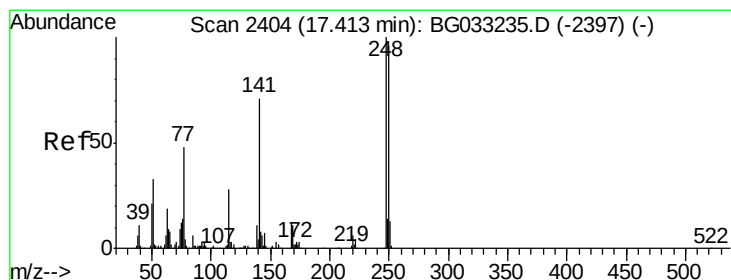
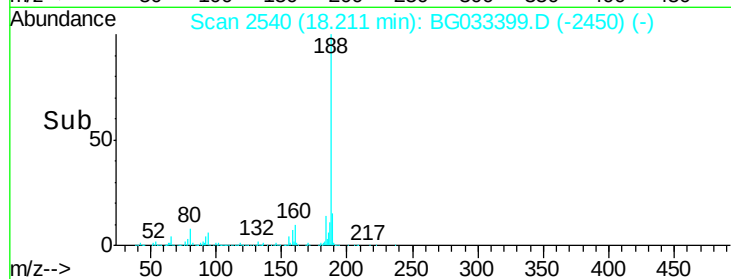
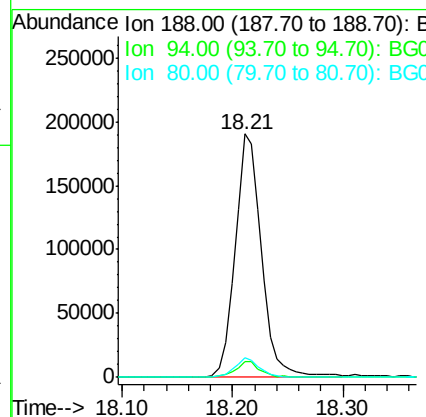
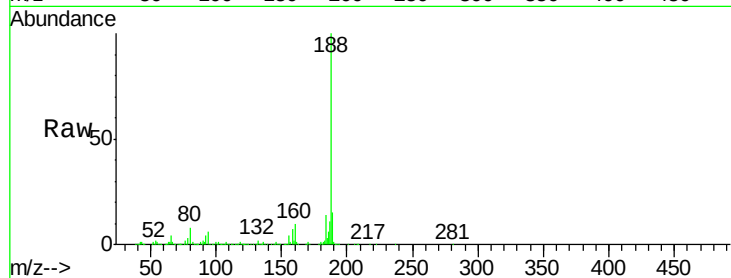




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 18.21 min Scan# 2540  
Delta R.T. -0.00 min  
Lab File: BG033399.D  
Acq: 28 Mar 2018 23:21

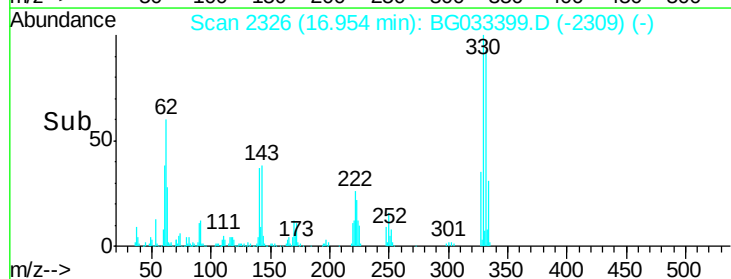
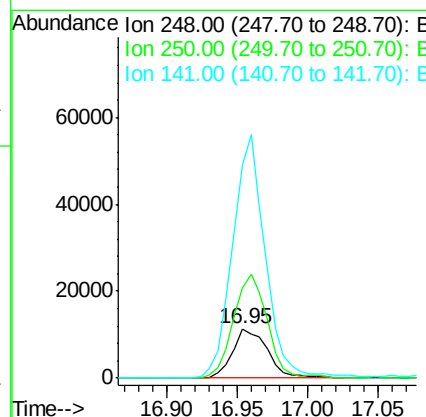
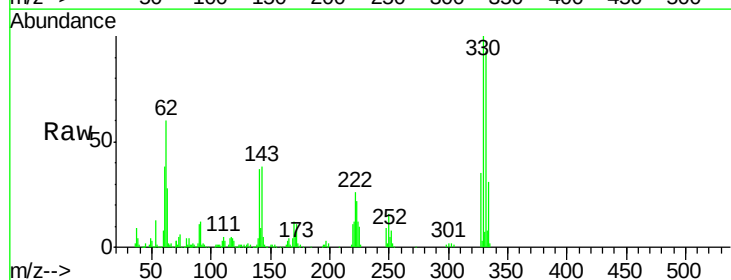
Instrument :  
BNA\_G  
ClientSampled :  
MW-9

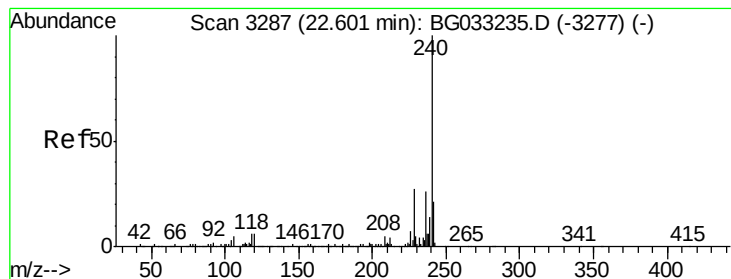
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 6.3   | 6.9   | 10.3# |
| 80      | 8.2   | 7.7   | 11.5  |



#66  
4-Bromophenyl-phenylether  
Concen: 5.23 ng  
RT: 16.95 min Scan# 2326  
Delta R.T. -0.43 min  
Lab File: BG033399.D  
Acq: 28 Mar 2018 23:21

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 182.1 | 77.1  | 115.7# |
| 141     | 429.7 | 50.8  | 76.2#  |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 22.56 min Scan# 3280

Delta R.T. -0.00 min

Lab File: BG033399.D

Acq: 28 Mar 2018 23:21

Instrument :

BNA\_G

ClientSampleId :

MW-9

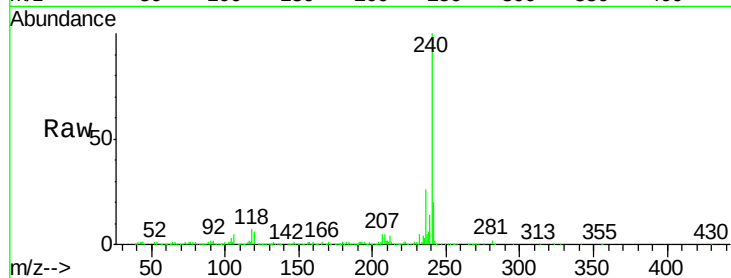
Tgt Ion:240 Resp: 331296

Ion Ratio Lower Upper

240 100

120 6.5 6.8 10.2#

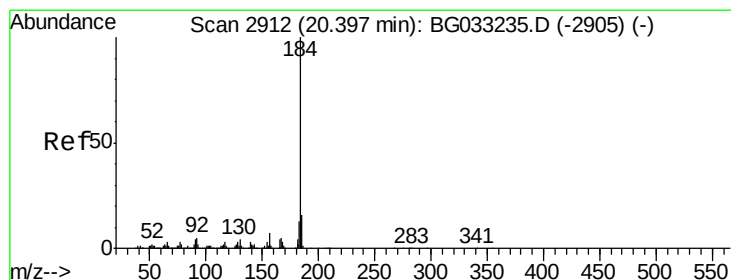
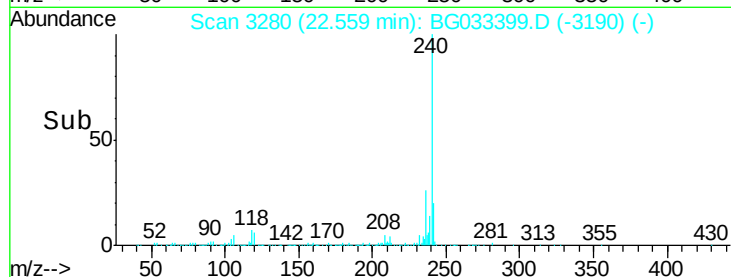
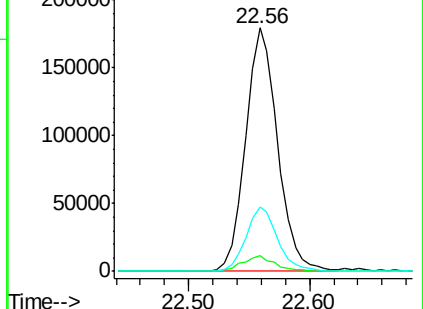
236 26.4 20.9 31.3



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: 2.43 ng

RT: 20.73 min Scan# 2969

Delta R.T. 0.36 min

Lab File: BG033399.D

Acq: 28 Mar 2018 23:21

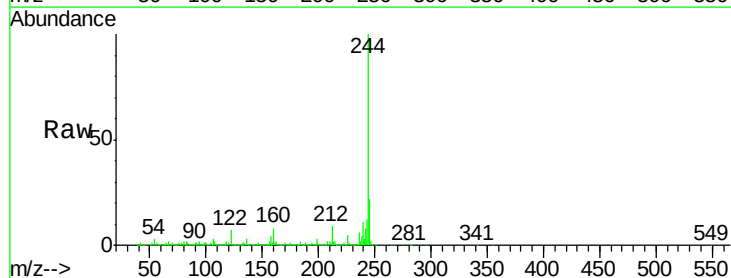
Tgt Ion:184 Resp: 21787

Ion Ratio Lower Upper

184 100

185 18.8 11.1 16.7#

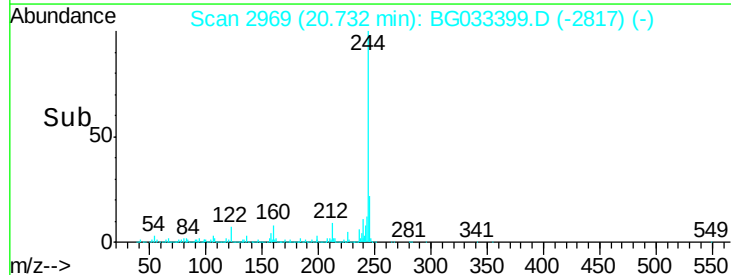
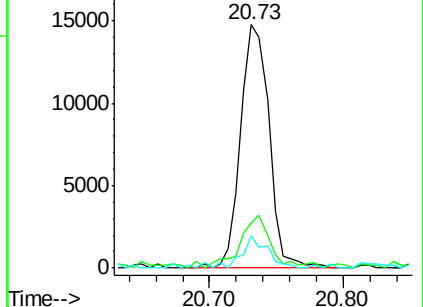
183 13.4 10.6 16.0

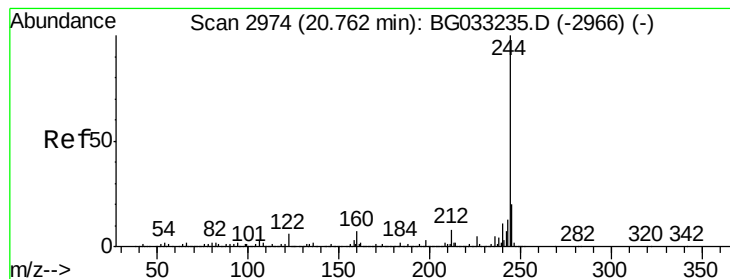


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Terphenyl-d14

Concen: 88.19 ng

RT: 20.74 min Scan# 2970

Delta R.T. 0.00 min

Lab File: BG033399.D

Acq: 28 Mar 2018 23:21

Instrument :

BNA\_G

ClientSampleId :

MW-9

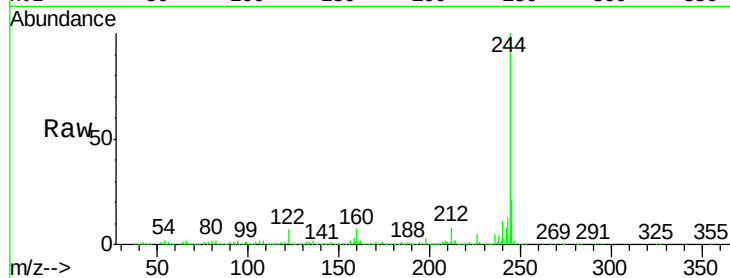
Tgt Ion:244 Resp: 1366153

Ion Ratio Lower Upper

244 100

212 8.4 5.8 8.8

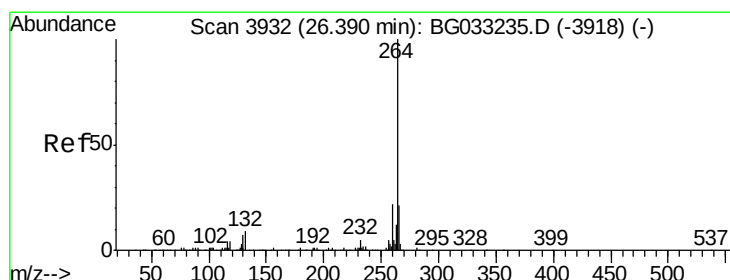
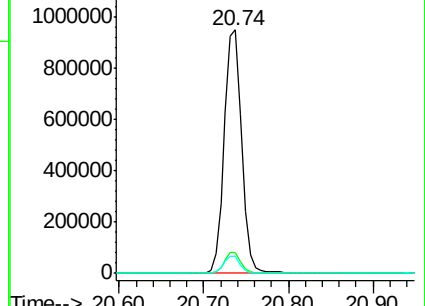
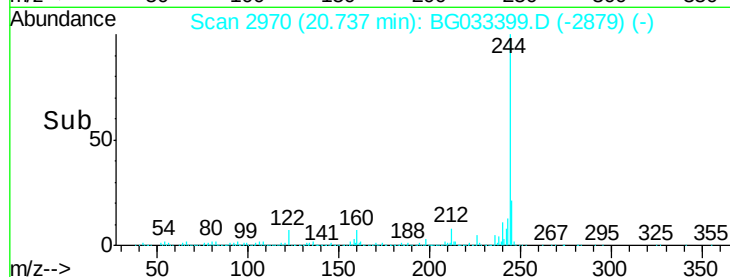
122 6.9 7.0 10.4#



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: 20.00 ng

RT: 26.33 min Scan# 3921

Delta R.T. -0.01 min

Lab File: BG033399.D

Acq: 28 Mar 2018 23:21

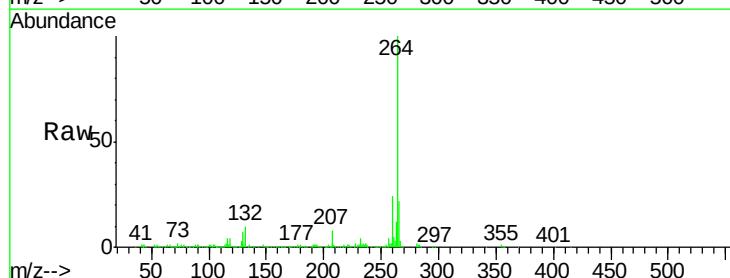
Tgt Ion:264 Resp: 353063

Ion Ratio Lower Upper

264 100

260 23.8 17.4 26.0

265 22.5 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

