

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020718\  
 Data File : BF102840.D  
 Acq On : 8 Feb 2018 3:04  
 Operator : SJ/JU  
 Sample : J1466-01  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Feb 08 06:31:13 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 05 12:44:16 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.89  | 152  | 171702   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.17  | 136  | 675544   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.92  | 164  | 260403   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.41 | 188  | 375765   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.05 | 240  | 313190   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.53 | 264  | 236180   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.76  | 112  | 864      | 0.08   | ng    | 0.27     |
| 7) Phenol-d6                | 6.50  | 99   | 9140     | 0.67   | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.45  | 82   | 1036442  | 106.43 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 0.00  | 330  | 0        | 0.00   | ng    |          |
| 44) 2-Fluorobiphenyl        | 9.25  | 172  | 1528506  | 97.40  | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.00 | 244  | 1201286  | 90.82  | ng    | 0.00     |

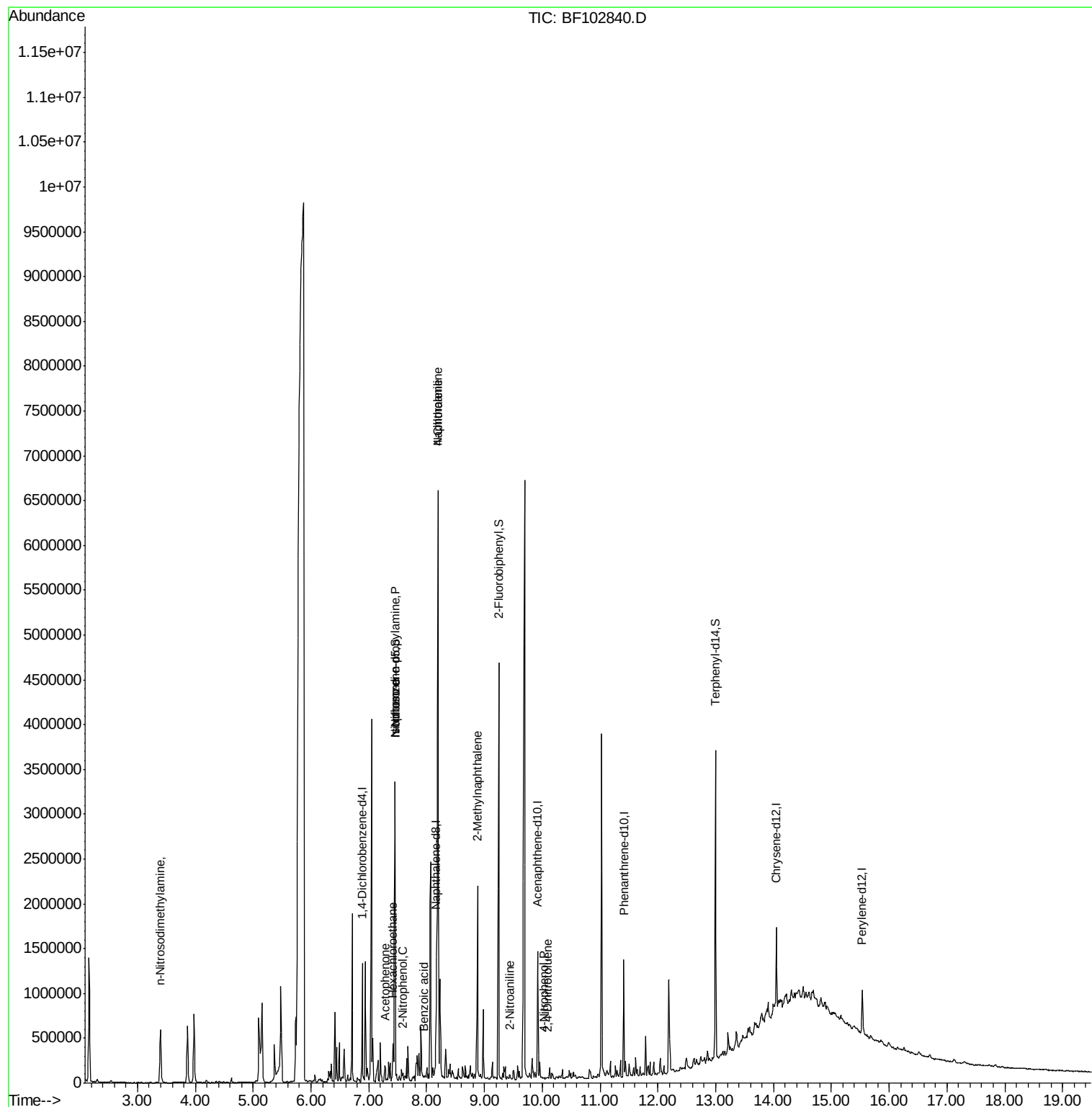
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 4) n-Nitrosodimethylamine      | 3.40  | 42   | 26866    | 4.07   | ng    | # 1    |
| 18) Hexachloroethane           | 7.42  | 117  | 22507    | 4.89   | ng    | # 1    |
| 19) n-Nitroso-di-n-propylamine | 7.45  | 70   | 140649   | 15.67  | ng    | # 79   |
| 22) Acetophenone               | 7.28  | 105  | 62993    | 3.81   | ng    | # 80   |
| 25) Isophorone                 | 7.45  | 82   | 1033228  | 46.08  | ng    | # 64   |
| 26) 2-Nitrophenol              | 7.58  | 139  | 418      | 8.74   | ng    | # 1    |
| 31) Naphthalene                | 8.20  | 128  | 3326658  | 100.79 | ng    | # 98   |
| 32) Benzoic acid               | 7.95  | 122  | 861      | 8.67   | ng    | # 19   |
| 33) 4-Chloroaniline            | 8.20  | 127  | 466827   | 32.83  | ng    | # 35   |
| 37) 2-Methylnaphthalene        | 8.88  | 142  | 378673   | 17.52  | ng    | # 99   |
| 47) 2-Nitroaniline             | 9.44  | 65   | 363      | 3.54   | ng    | # 2    |
| 55) 4-Nitrophenol              | 10.02 | 139  | 857      | 4.23   | ng    | # 97   |
| 56) 2,4-Dinitrotoluene         | 10.10 | 165  | 1214     | 3.29   | ng    | # 84   |

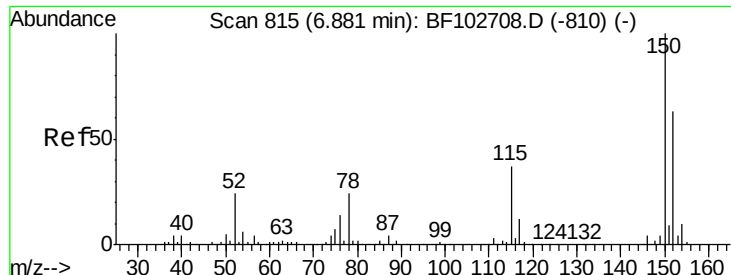
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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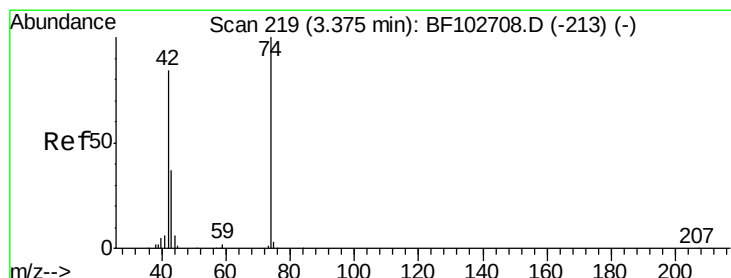
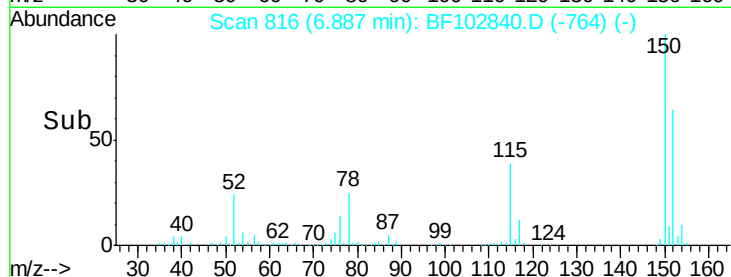
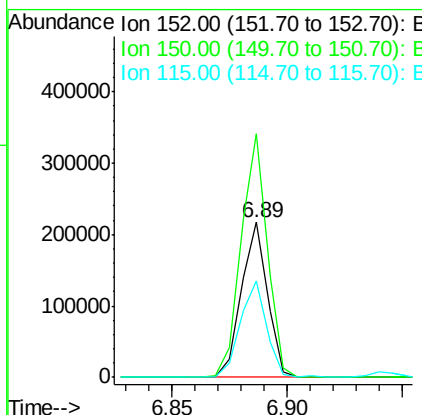
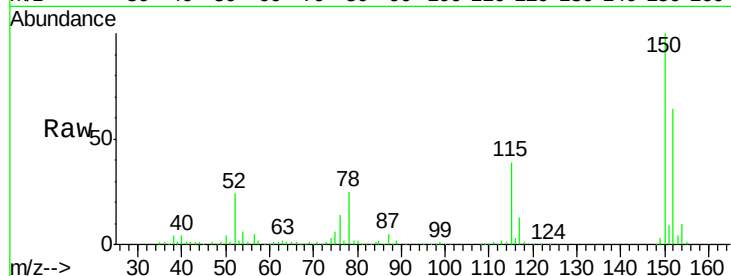


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.89 min Scan# 816  
Delta R.T. 0.01 min  
Lab File: BF102840.D  
Acq: 8 Feb 2018 3:04

Instrument :  
BNA\_F  
ClientSampleId :

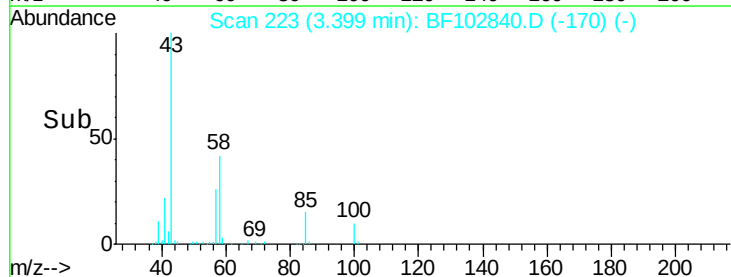
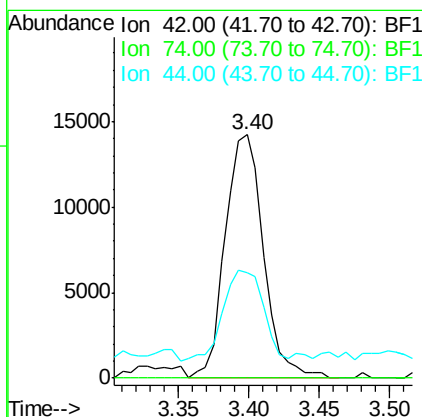
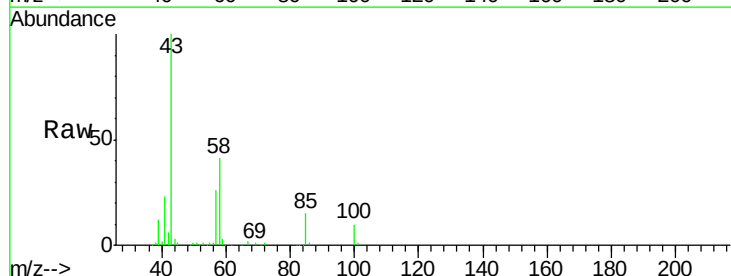
Tot Ion:152 Resp: 171702  
Ion Ratio Lower Upper  
152 100  
150 156.9 124.6 186.8  
115 61.9 50.1 75.1

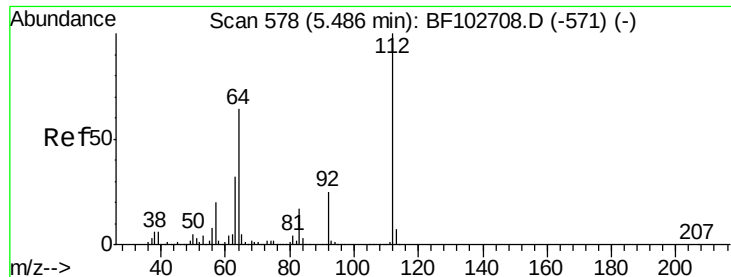


#4

n-Nitrosodimethylamine  
Concen: 4.07 ng  
RT: 3.40 min Scan# 223  
Delta R.T. 0.01 min  
Lab File: BF102840.D  
Acq: 8 Feb 2018 3:04

Tgt Ion: 42 Resp: 26866  
Ion Ratio Lower Upper  
42 100  
74 0.0 104.9 157.3#  
44 43.5 6.9 10.3#





#5

2-Fluorophenol

Concen: 0.08 ng

RT: 5.76 min Scan# 625

Delta R.T. 0.27 min

Lab File: BF102840.D

Acq: 8 Feb 2018 3:04

Instrument :

BNA\_F

ClientSampleId :

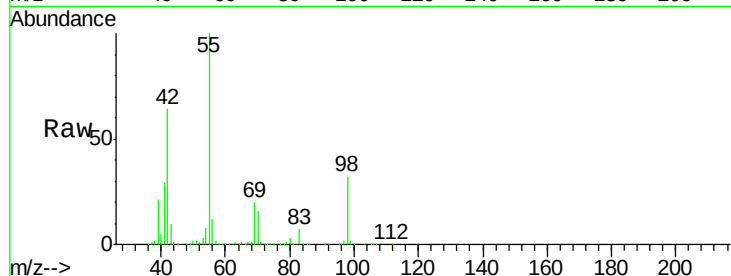
Tot Ion:112 Resp: 864

Ion Ratio Lower Upper

112 100

64 103.2 47.9 71.9#

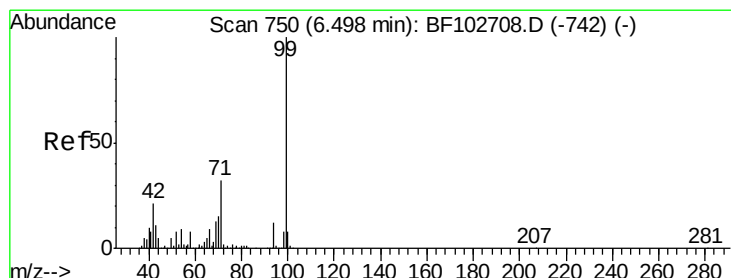
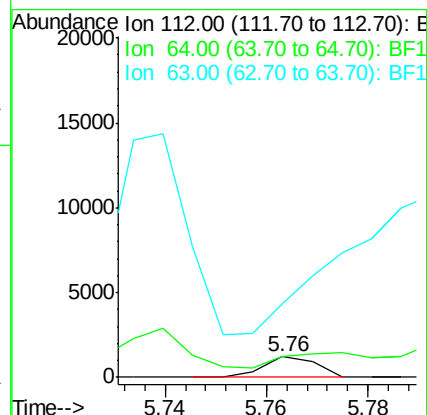
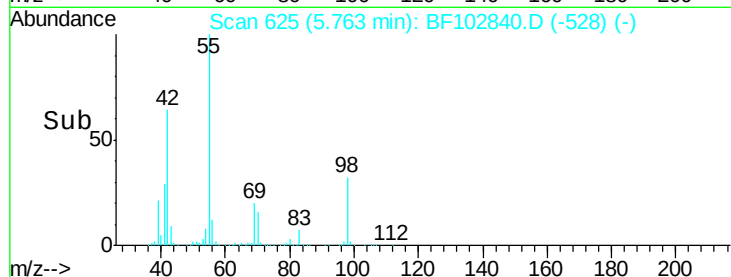
63 358.8 23.7 35.5#



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1



#7

Phenol-d6

Concen: 0.67 ng

RT: 6.50 min Scan# 751

Delta R.T. 0.00 min

Lab File: BF102840.D

Acq: 8 Feb 2018 3:04

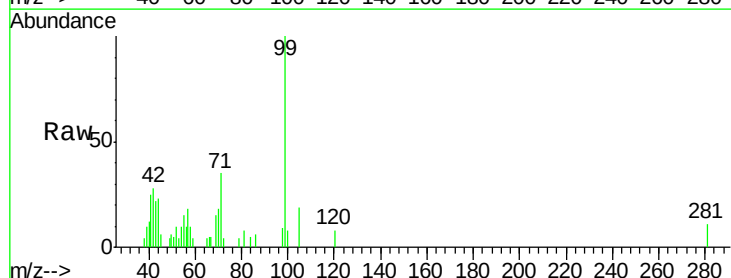
Tgt Ion: 99 Resp: 9140

Ion Ratio Lower Upper

99 100

42 27.8 14.5 21.7#

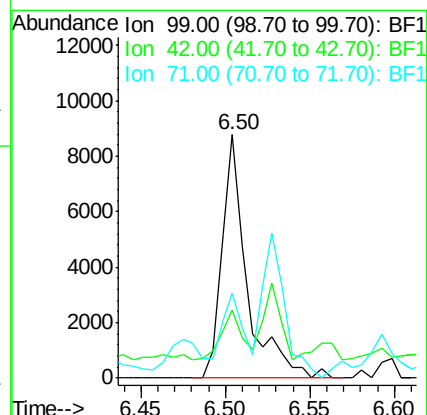
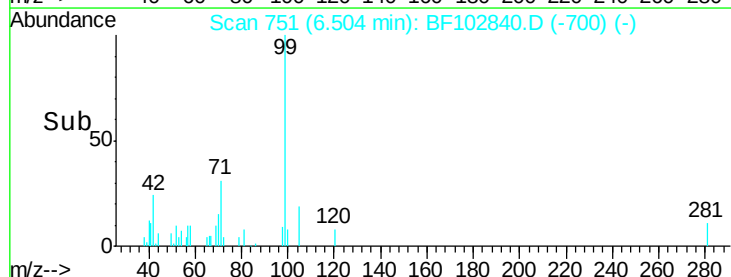
71 34.9 25.4 38.0

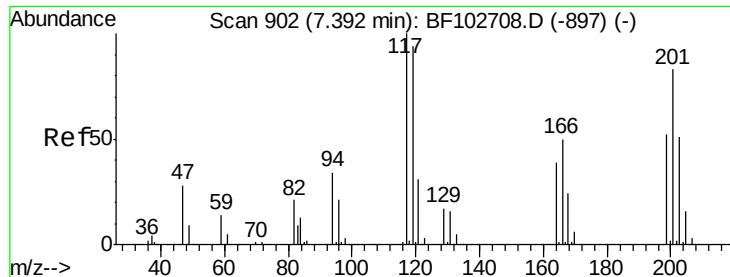


Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1

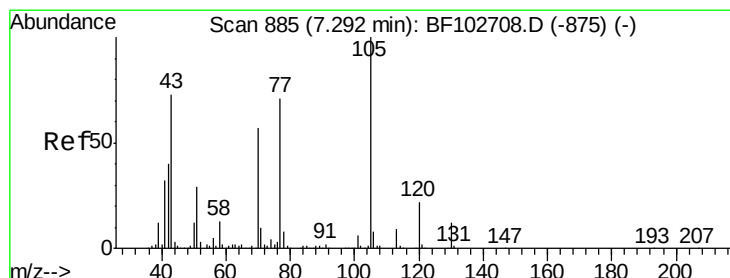
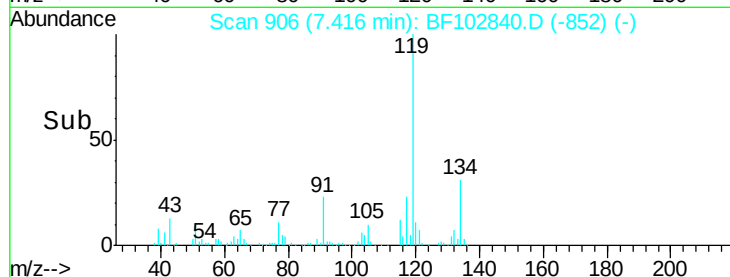
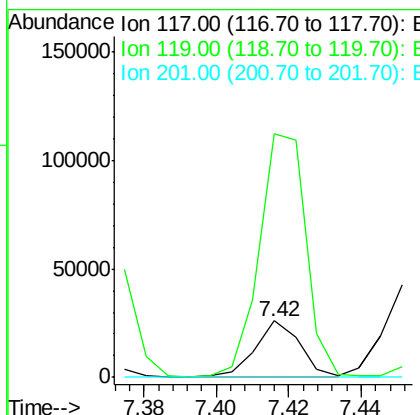
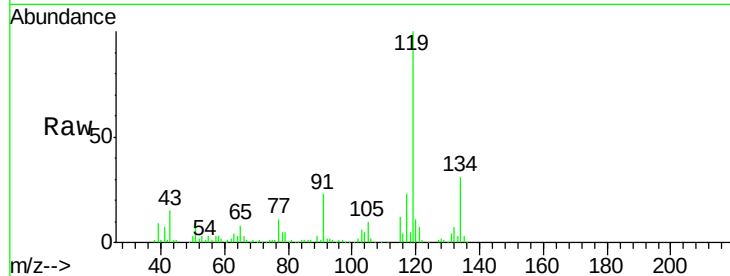




#18  
Hexachloroethane  
Concen: 4.89 ng  
RT: 7.42 min Scan# 906  
Delta R.T. 0.02 min  
Lab File: BF102840.D  
Acq: 8 Feb 2018 3:04

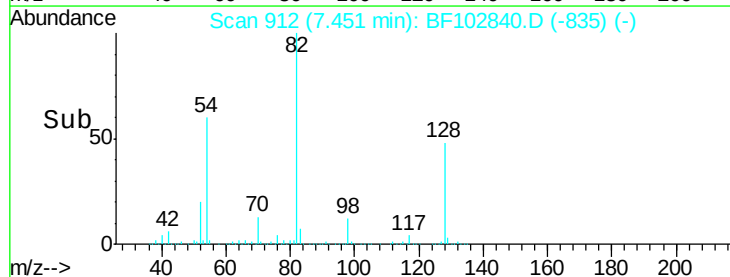
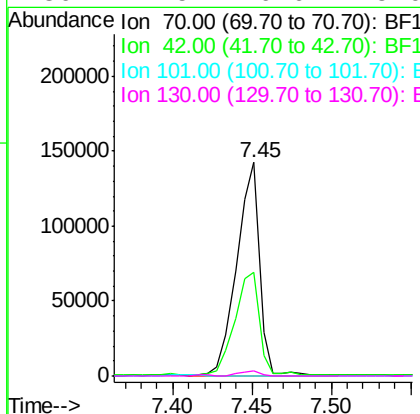
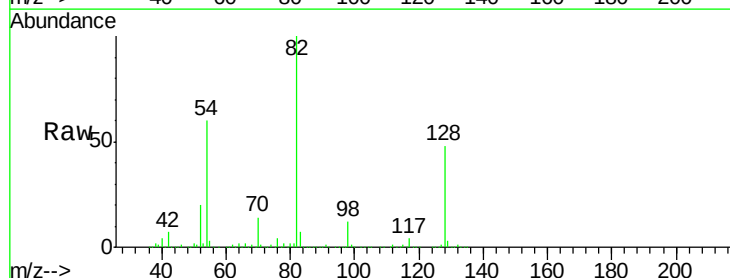
Instrument :  
BNA\_F  
ClientSampled :

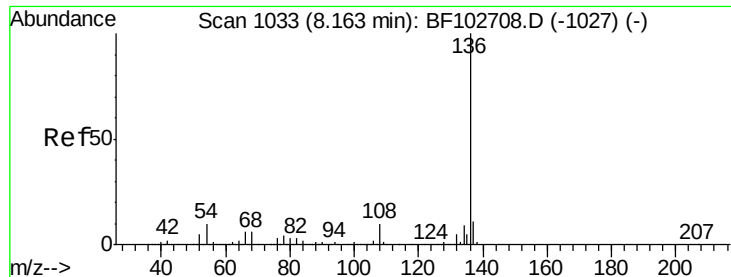
Tot Ion:117 Resp: 22507  
Ion Ratio Lower Upper  
117 100  
119 429.6 75.8 113.8#  
201 0.0 75.7 113.5#



#19  
n-Nitroso-di-n-propylamine  
Concen: 15.67 ng  
RT: 7.45 min Scan# 912  
Delta R.T. 0.15 min  
Lab File: BF102840.D  
Acq: 8 Feb 2018 3:04

Tgt Ion: 70 Resp: 140649  
Ion Ratio Lower Upper  
70 100  
42 48.4 47.5 71.3  
101 0.0 7.4 11.2#  
130 2.5 16.6 25.0#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.17 min Scan# 1034

Delta R.T. 0.00 min

Lab File: BF102840.D

Acq: 8 Feb 2018 3:04

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 675544

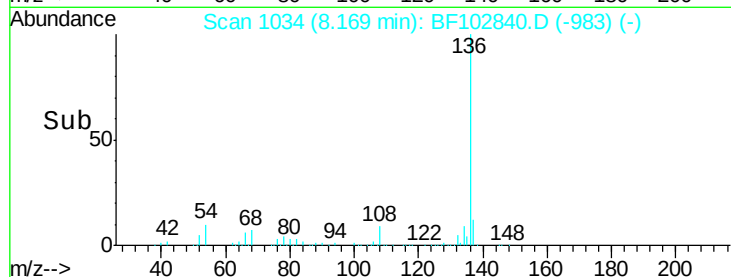
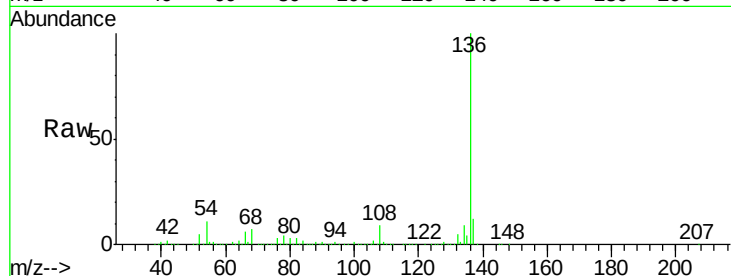
Ion Ratio Lower Upper

136 100

137 11.8 8.9 13.3

54 10.6 6.6 9.8#

68 6.7 5.0 7.4

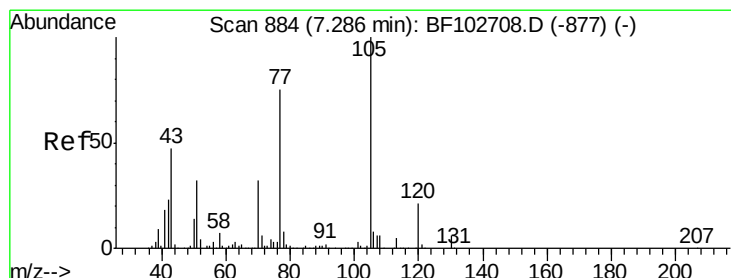
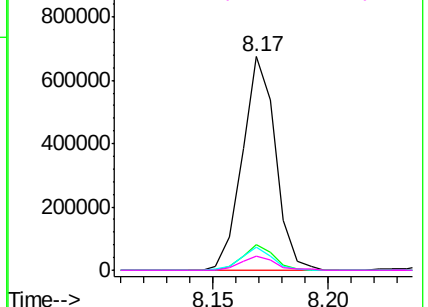


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#22

Acetophenone

Concen: 3.81 ng

RT: 7.28 min Scan# 883

Delta R.T. -0.01 min

Lab File: BF102840.D

Acq: 8 Feb 2018 3:04

Tgt Ion:105 Resp: 62993

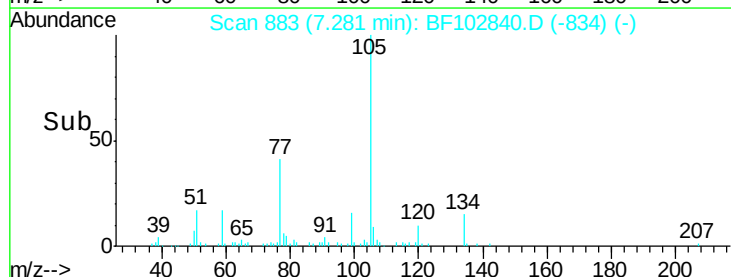
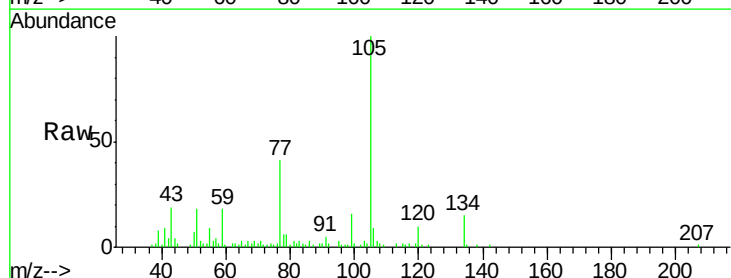
Ion Ratio Lower Upper

105 100

71 3.4 4.4 6.6#

51 17.7 22.3 33.5#

120 9.8 16.9 25.3#

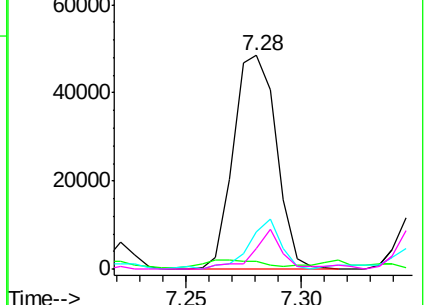


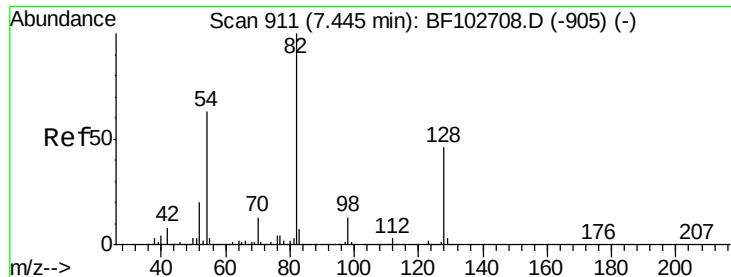
Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF1

Ion 51.00 (50.70 to 51.70): BF1

Ion 120.00 (119.70 to 120.70): E

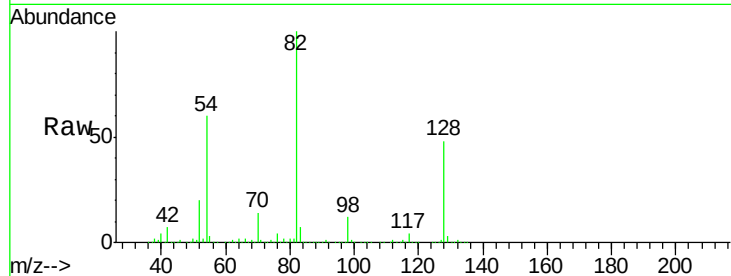




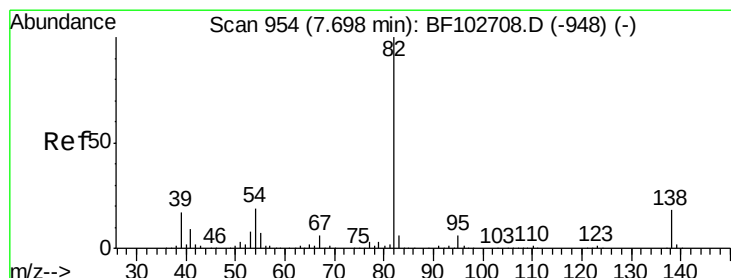
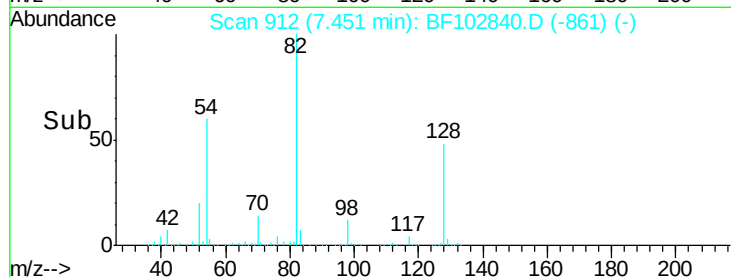
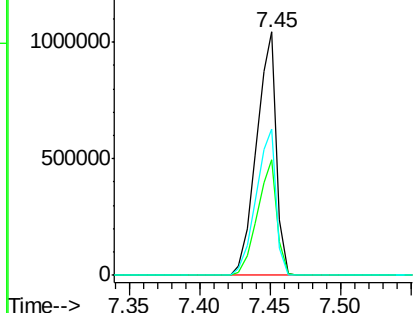
#23  
 Nitrobenzene-d5  
 Concen: 106.43 ng  
 RT: 7.45 min Scan# 912  
 Delta R.T. 0.00 min  
 Lab File: BF102840.D  
 Acq: 8 Feb 2018 3:04

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion: 82 Resp: 1036442  
 Ion Ratio Lower Upper  
 82 100  
 128 47.7 36.1 54.1  
 54 60.0 41.4 62.2

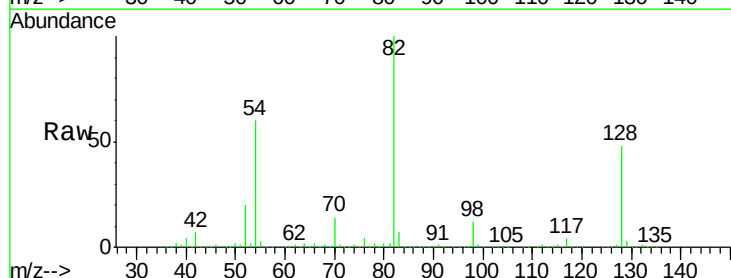


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

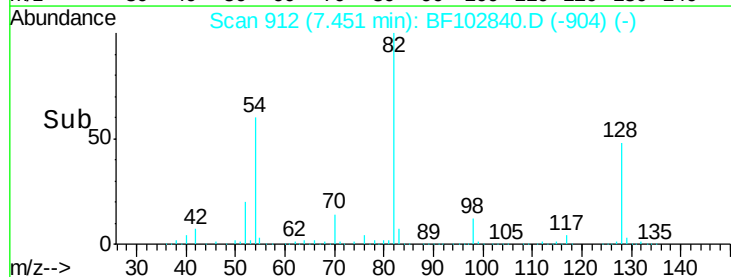
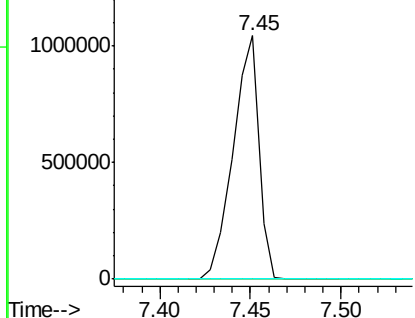


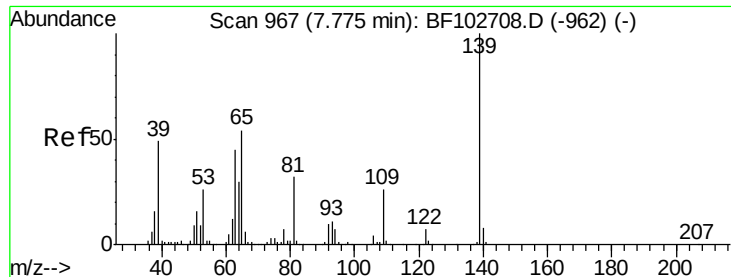
#25  
 Isophorone  
 Concen: 46.08 ng  
 RT: 7.45 min Scan# 912  
 Delta R.T. -0.25 min  
 Lab File: BF102840.D  
 Acq: 8 Feb 2018 3:04

Tgt Ion: 82 Resp: 1033228  
 Ion Ratio Lower Upper  
 82 100  
 95 0.1 5.2 7.8#  
 138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 95.00 (94.70 to 95.70): BF1  
 Ion 138.00 (137.70 to 138.70): BF1





#26

2-Nitrophenol

Concen: 8.74 ng

RT: 7.58 min Scan# 934

Delta R.T. -0.20 min

Lab File: BF102840.D

Acq: 8 Feb 2018 3:04

Instrument :

BNA\_F

ClientSampled :

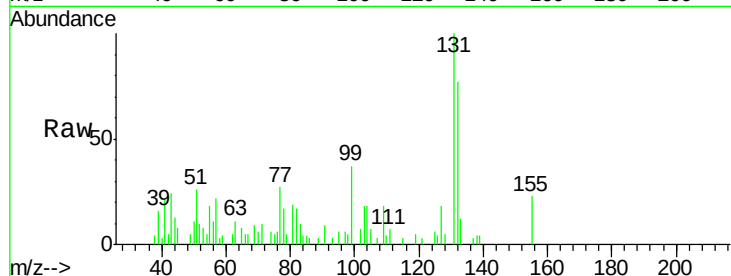
Tot Ion:139 Resp: 418

Ion Ratio Lower Upper

139 100

109 404.8 22.7 34.1#

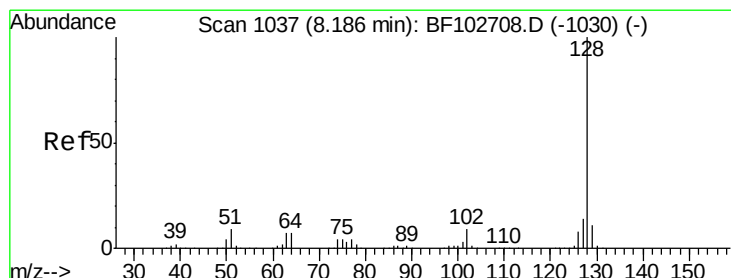
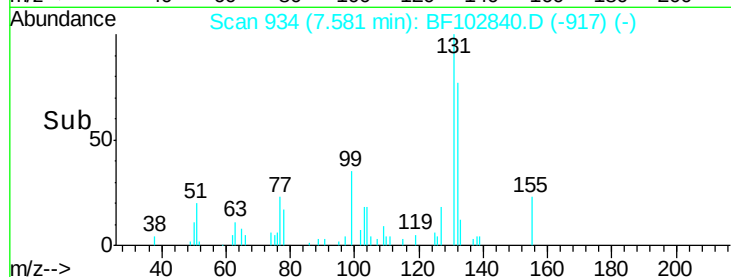
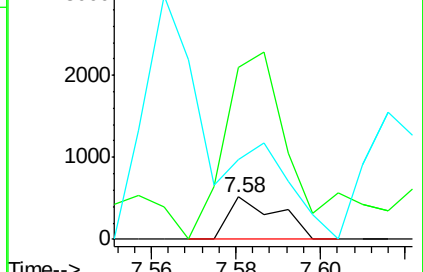
65 186.5 40.5 60.7#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1



#31

Naphthalene

Concen: 100.79 ng

RT: 8.20 min Scan# 1039

Delta R.T. 0.01 min

Lab File: BF102840.D

Acq: 8 Feb 2018 3:04

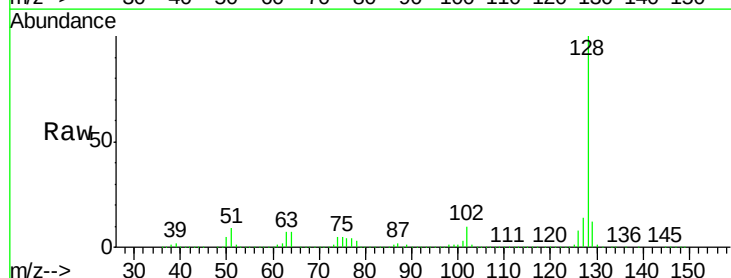
Tgt Ion:128 Resp: 3326658

Ion Ratio Lower Upper

128 100

129 11.7 8.8 13.2

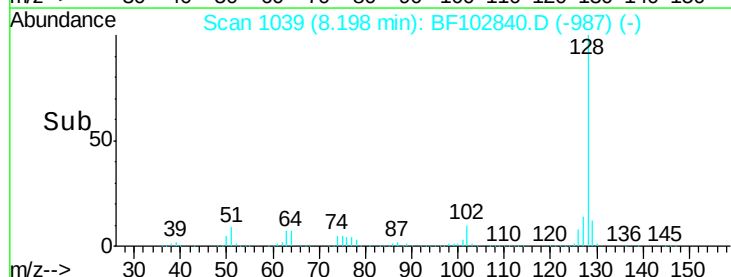
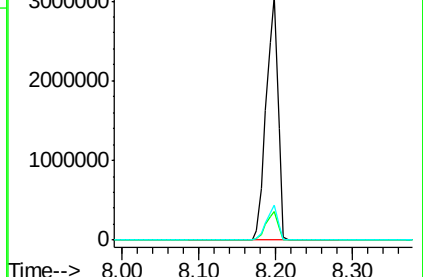
127 14.4 10.9 16.3



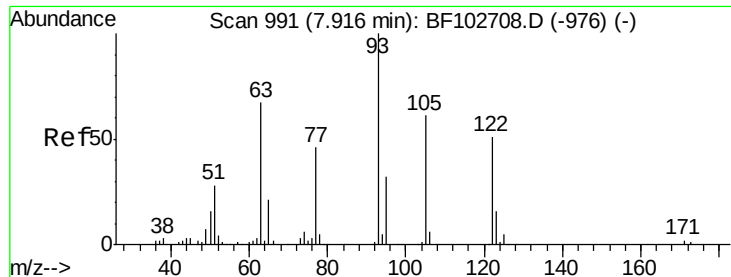
Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E







#32

Benzoic acid

Concen: 8.67 ng

RT: 7.95 min Scan# 996

Delta R.T. 0.01 min

Lab File: BF102840.D

Acq: 8 Feb 2018 3:04

Instrument :

BNA\_F

ClientSampleId :

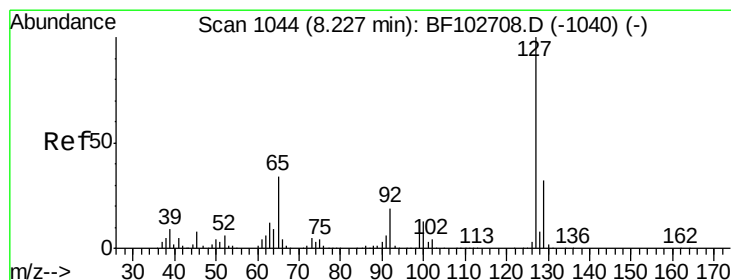
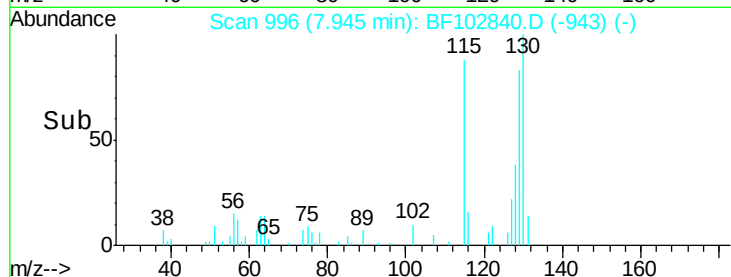
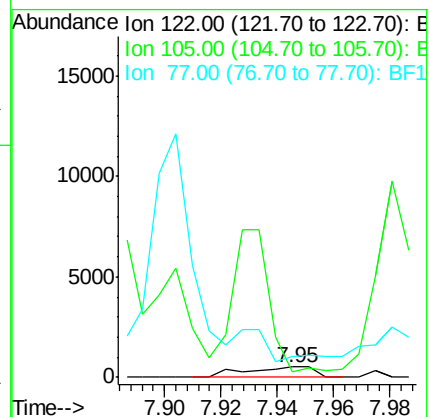
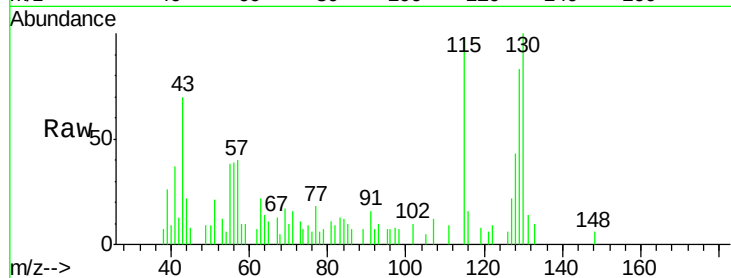
Tot Ion:122 Resp: 861

Ion Ratio Lower Upper

122 100

105 59.0 101.1 141.1#

77 200.4 70.7 110.7#



#33

4-Chloroaniline

Concen: 32.83 ng

RT: 8.20 min Scan# 1039

Delta R.T. -0.04 min

Lab File: BF102840.D

Acq: 8 Feb 2018 3:04

Tgt Ion:127 Resp: 466827

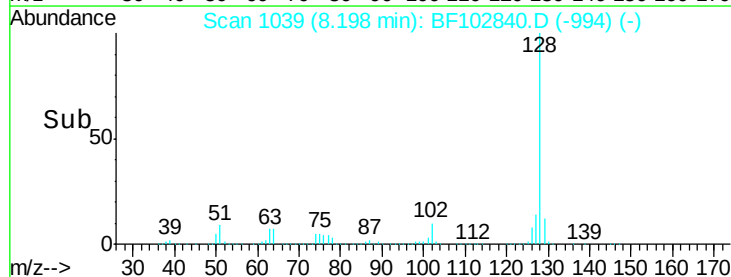
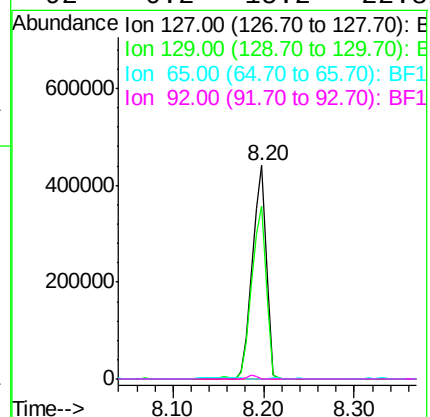
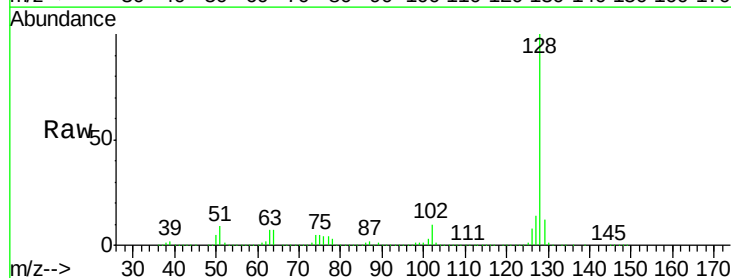
Ion Ratio Lower Upper

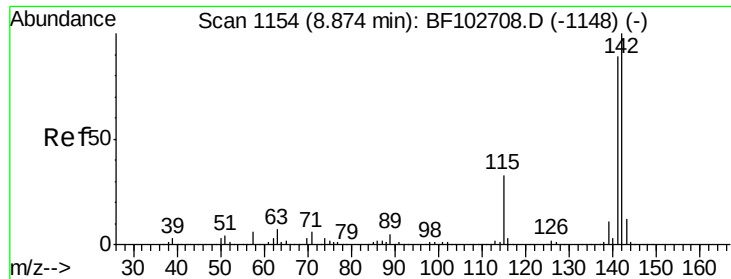
127 100

129 81.2 25.9 38.9#

65 0.0 25.0 37.4#

92 0.2 15.2 22.8#

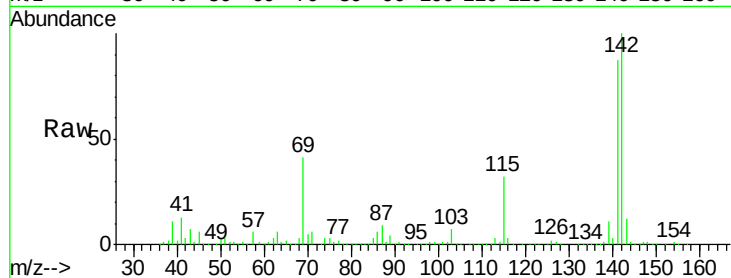




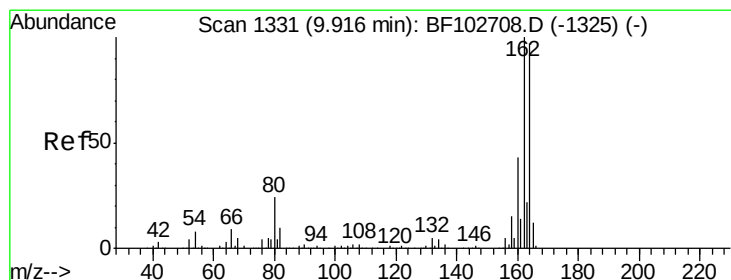
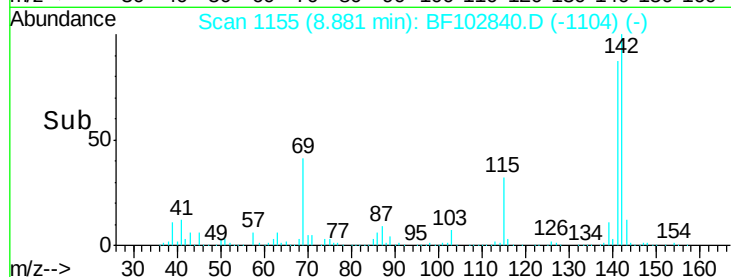
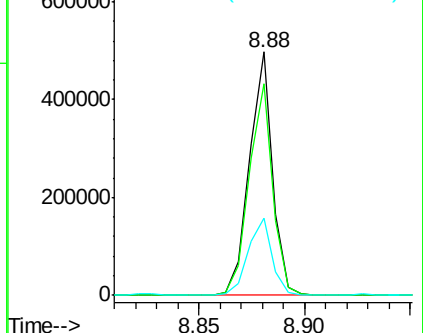
#37  
2-Methylnaphthalene  
Concen: 17.52 ng  
RT: 8.88 min Scan# 1155  
Delta R.T. 0.00 min  
Lab File: BF102840.D  
Acq: 8 Feb 2018 3:04

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:142 Resp: 378673  
Ion Ratio Lower Upper  
142 100  
141 87.2 70.8 106.2  
115 31.9 26.1 39.1

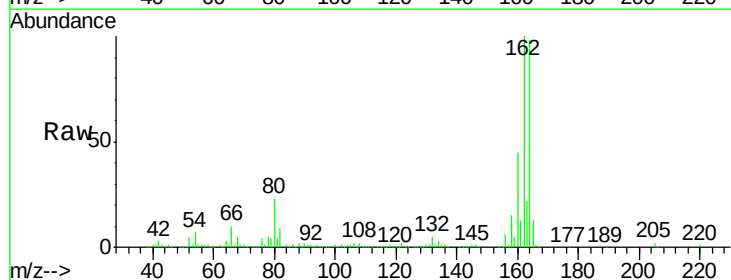


Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 115.00 (114.70 to 115.70): E

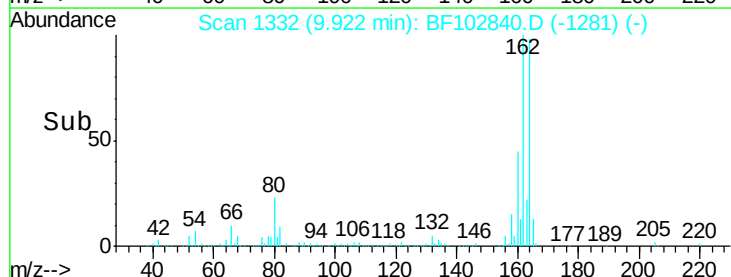
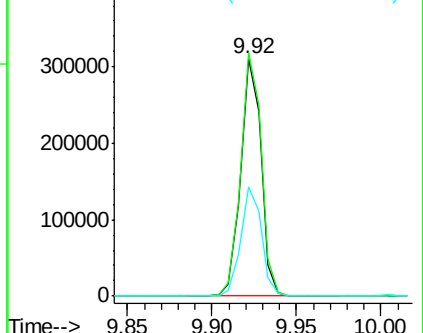


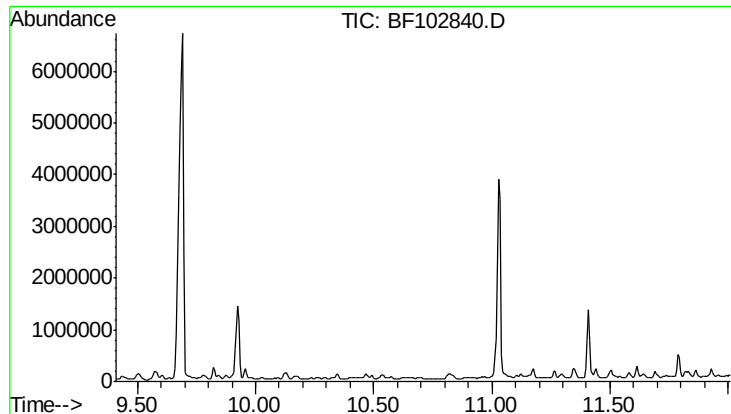
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.92 min Scan# 1332  
Delta R.T. 0.00 min  
Lab File: BF102840.D  
Acq: 8 Feb 2018 3:04

Tgt Ion:164 Resp: 260403  
Ion Ratio Lower Upper  
164 100  
162 102.5 86.1 129.1  
160 45.8 38.3 57.5



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: 0.00 ng

Expected RT: 10.71 min

Lab File: BF102840.D

Acq: 8 Feb 2018 3:04

Tot Ion: 330

Sig Exp Ratio

330 100

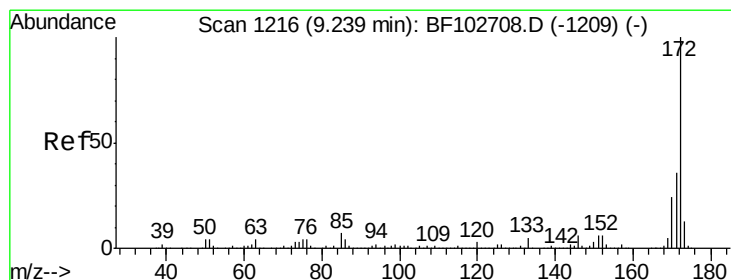
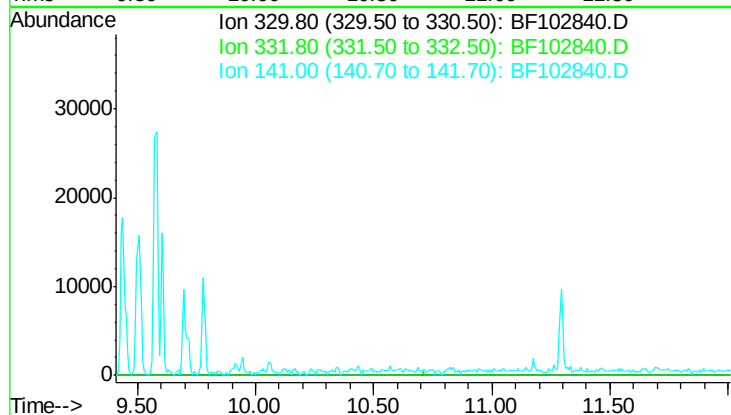
332 96.3

141 37.4

Instrument :

BNA\_F

ClientSampleId :



#44

2-Fluorobiphenyl

Concen: 97.40 ng

RT: 9.25 min Scan# 1217

Delta R.T. 0.00 min

Lab File: BF102840.D

Acq: 8 Feb 2018 3:04

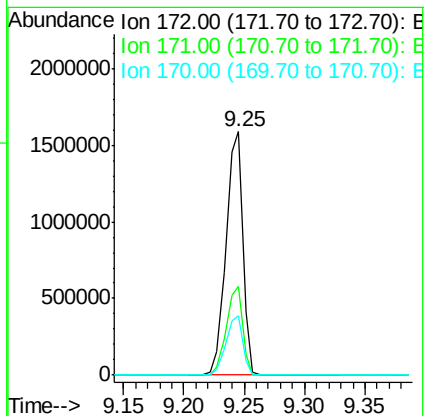
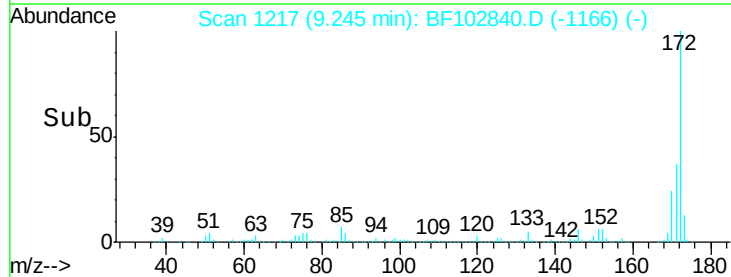
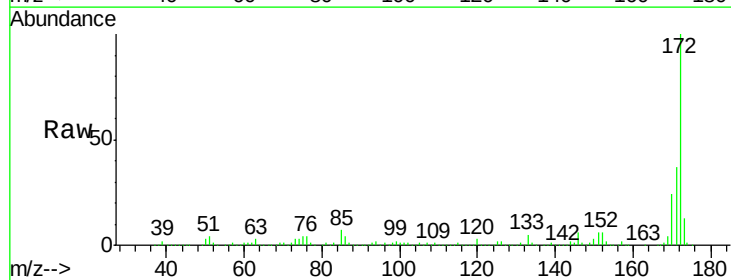
Tgt Ion:172 Resp: 1528506

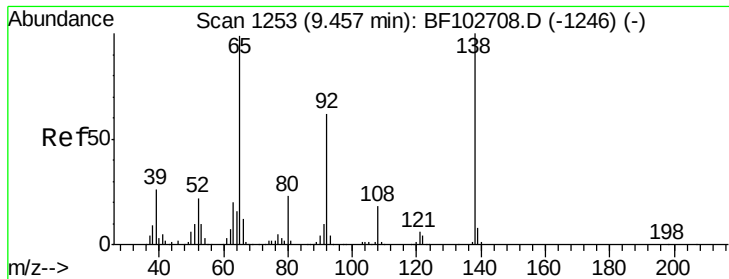
Ion Ratio Lower Upper

172 100

171 36.6 29.7 44.5

170 24.2 19.6 29.4





#47

2-Nitroaniline

Concen: 3.54 ng

RT: 9.44 min Scan# 1250

Delta R.T. -0.02 min

Lab File: BF102840.D

Acq: 8 Feb 2018 3:04

Instrument :

BNA\_F

ClientSampled :

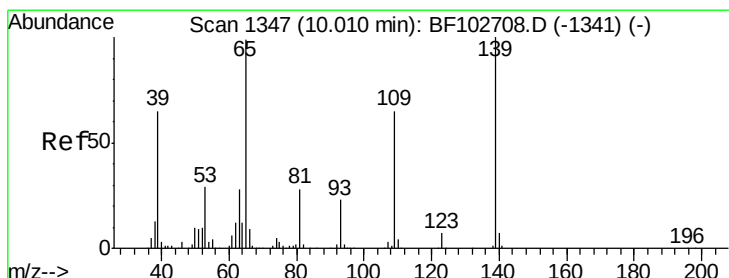
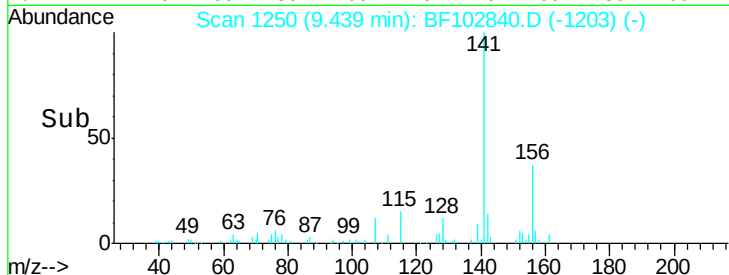
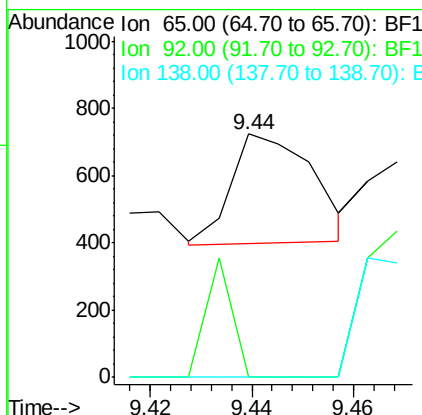
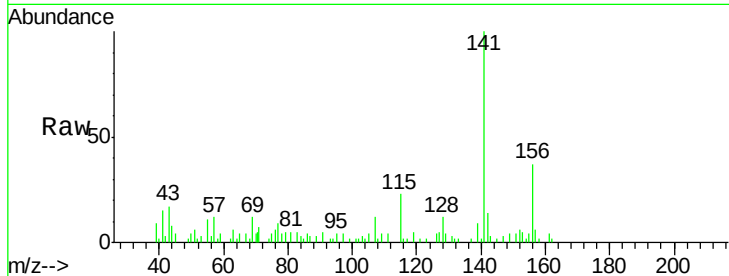
Tot Ion: 65 Resp: 363

Ion Ratio Lower Upper

65 100

92 0.0 55.8 83.6#

138 0.0 91.2 136.8#



#55

4-Nitrophenol

Concen: 4.23 ng

RT: 10.02 min Scan# 1349

Delta R.T. 0.00 min

Lab File: BF102840.D

Acq: 8 Feb 2018 3:04

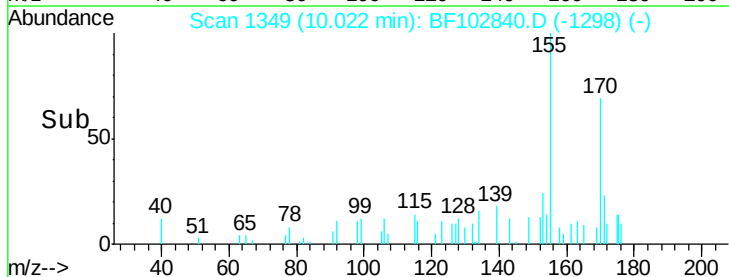
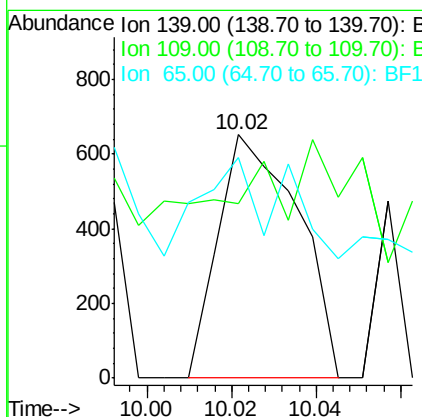
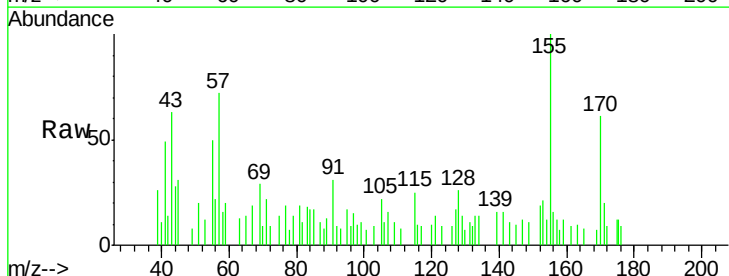
Tgt Ion: 139 Resp: 857

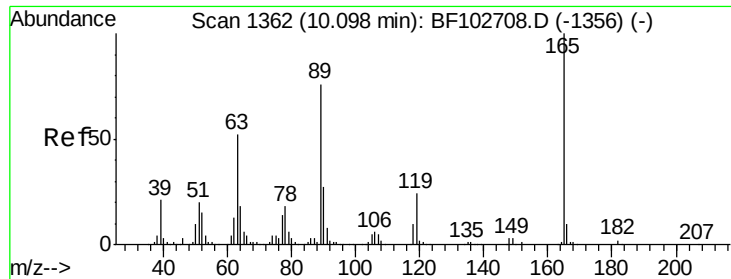
Ion Ratio Lower Upper

139 100

109 71.5 48.4 88.4

65 90.6 72.6 112.6

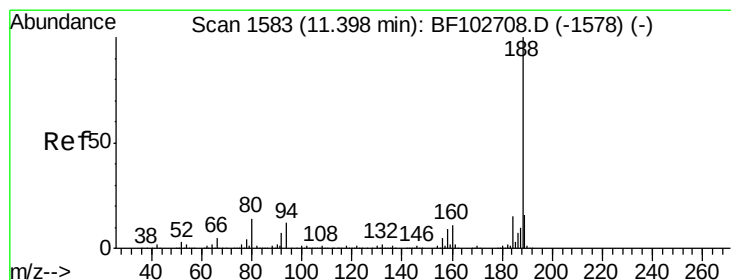
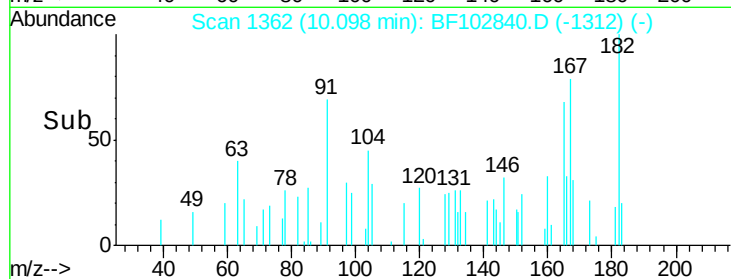
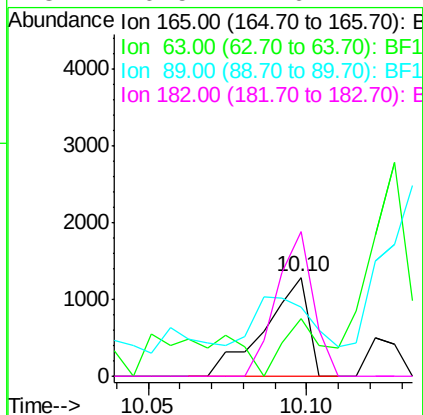
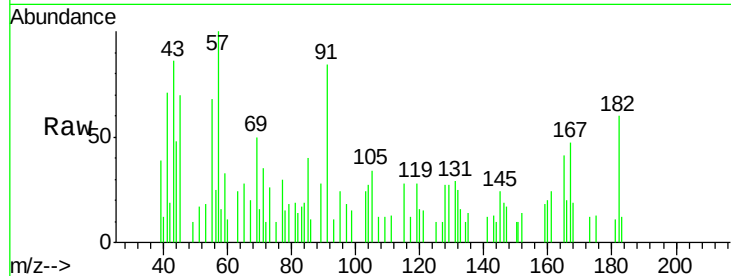




#56  
 2,4-Dinitrotoluene  
 Concen: 3.29 ng  
 RT: 10.10 min Scan# 1362  
 Delta R.T. -0.01 min  
 Lab File: BF102840.D  
 Acq: 8 Feb 2018 3:04

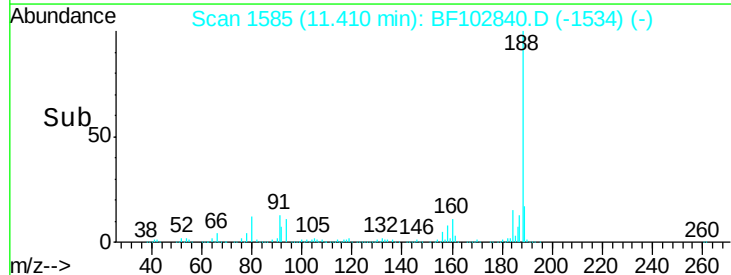
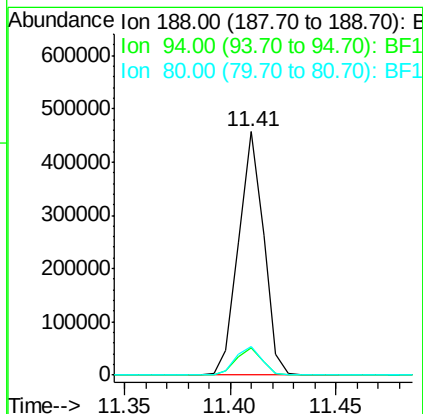
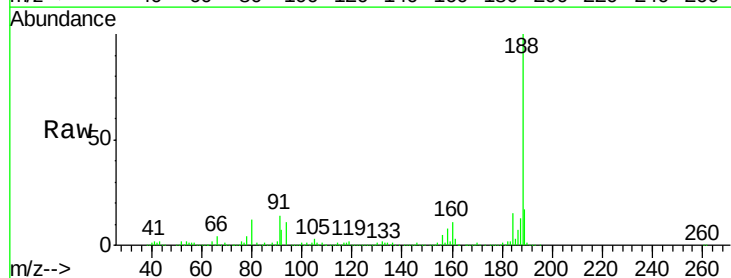
Instrument :  
 BNA\_F  
 ClientSampleId :

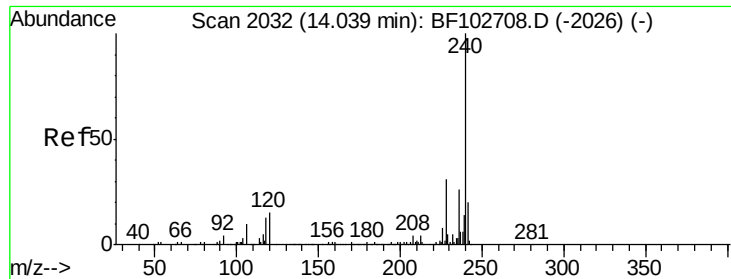
Tot Ion:165 Resp: 1214  
 Ion Ratio Lower Upper  
 165 100  
 63 58.4 36.4 54.6#  
 89 69.9 57.8 86.6  
 182 146.5 1.6 2.4#



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.41 min Scan# 1585  
 Delta R.T. 0.00 min  
 Lab File: BF102840.D  
 Acq: 8 Feb 2018 3:04

Tgt Ion:188 Resp: 375765  
 Ion Ratio Lower Upper  
 188 100  
 94 11.2 8.5 12.7  
 80 11.9 9.2 13.8





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.05 min Scan# 2034

Delta R.T. 0.00 min

Lab File: BF102840.D

Acq: 8 Feb 2018 3:04

Instrument :

BNA\_F

ClientSampleId :

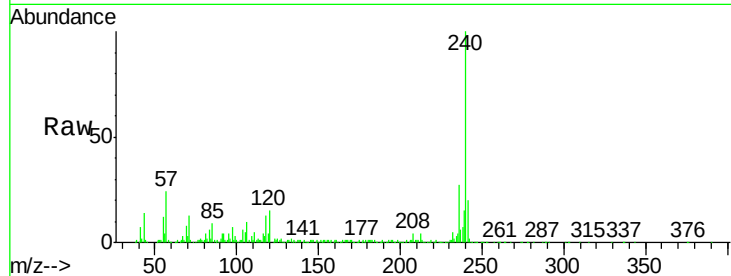
Tot Ion:240 Resp: 313190

Ion Ratio Lower Upper

240 100

120 15.1 9.5 14.3#

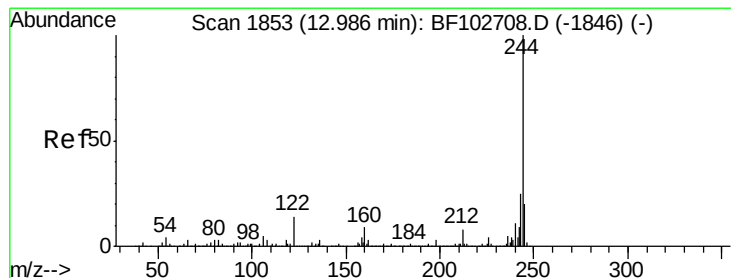
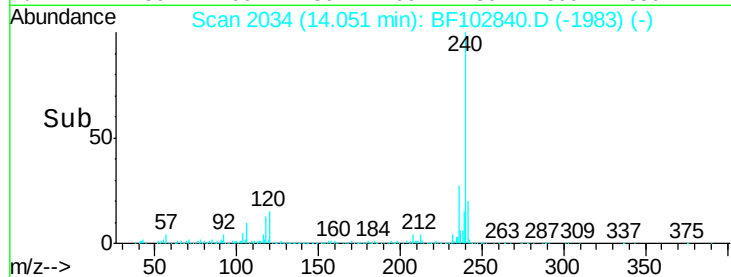
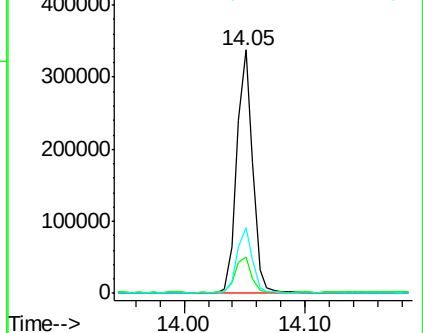
236 27.1 20.7 31.1



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



#78

Terphenyl-d14

Concen: 90.82 ng

RT: 13.00 min Scan# 1855

Delta R.T. 0.00 min

Lab File: BF102840.D

Acq: 8 Feb 2018 3:04

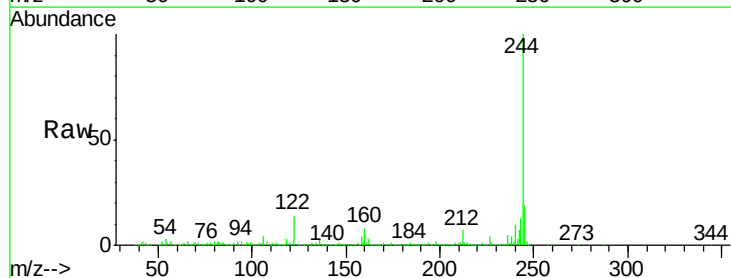
Tgt Ion:244 Resp: 1201286

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

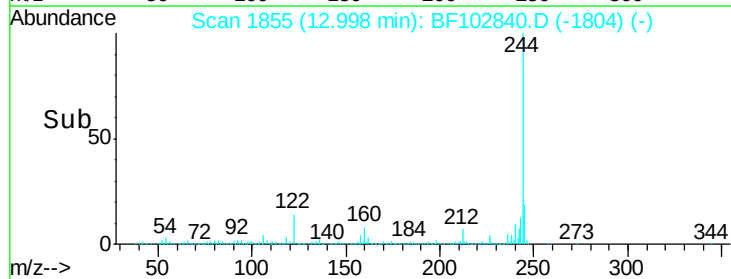
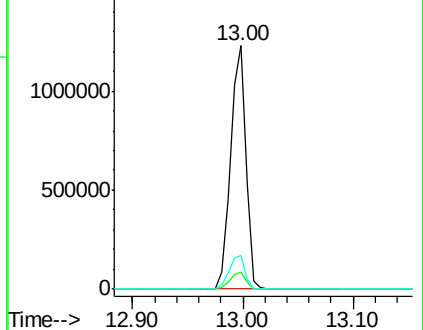
122 13.6 11.0 16.4

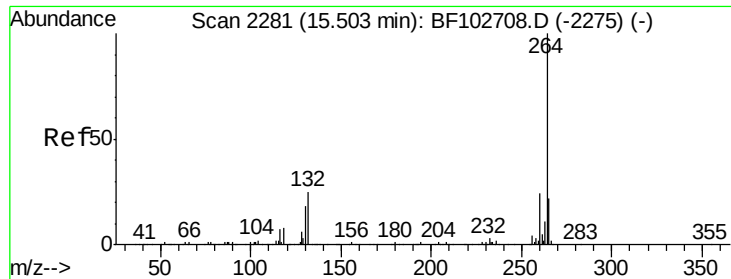


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.53 min Scan# 2286  
Delta R.T. 0.01 min  
Lab File: BF102840.D  
Acq: 8 Feb 2018 3:04

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:264 Resp: 236180  
Ion Ratio Lower Upper  
264 100  
260 24.8 19.2 28.8  
265 21.9 17.5 26.3

