

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF030818\  
 Data File : BF103513.D  
 Acq On : 8 Mar 2018 13:48  
 Operator : SJ/JU  
 Sample : J1810-05  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Mar 08 14:20:49 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 08 14:20:19 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.86  | 152  | 146694   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.15  | 136  | 604074   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.90  | 164  | 268889   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.40 | 188  | 485759   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.05 | 240  | 369162   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.56 | 264  | 311396   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.49  | 112  | 562629   | 58.01 | ng    | 0.00     |
| 7) Phenol-d6                | 6.50  | 99   | 508483   | 42.84 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.43  | 82   | 907751   | 85.82 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.70 | 330  | 211789   | 93.05 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.22  | 172  | 1265194  | 79.89 | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.99 | 244  | 1110926  | 72.34 | ng    | 0.00     |

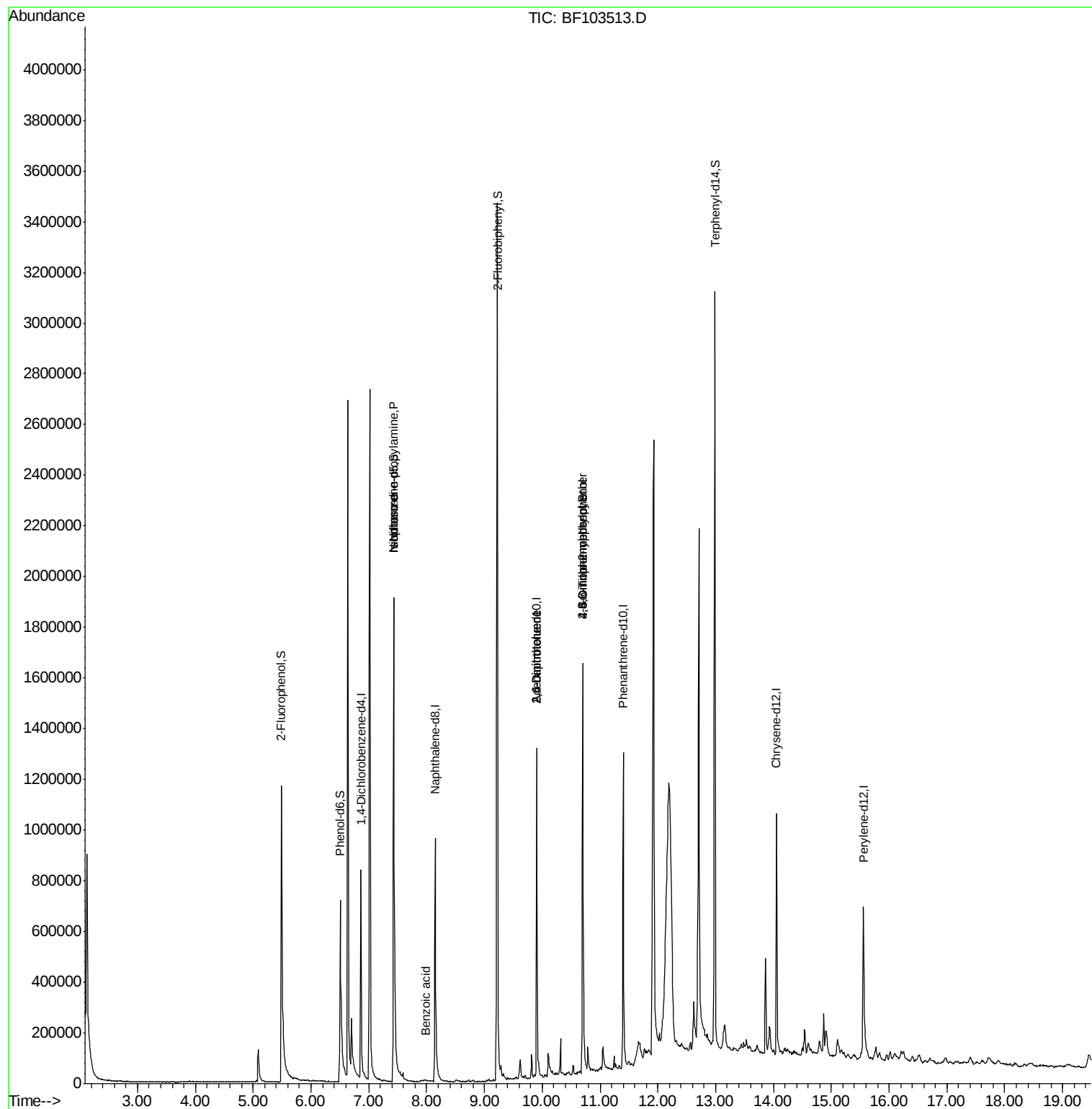
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.51  | 77   | 1843     | Below Cal |       | # 28   |
| 19) n-Nitroso-di-n-propylamine | 7.43  | 70   | 122703   | 16.612    | ng    | # 83   |
| 25) Isophorone                 | 7.43  | 82   | 907751   | 43.573    | ng    | # 64   |
| 32) Benzoic acid               | 7.98  | 122  | 3516     | 7.398     | ng    | # 83   |
| 50) 2,6-Dinitrotoluene         | 9.90  | 165  | 34210    | 7.557     | ng    | # 26   |
| 56) 2,4-Dinitrotoluene         | 9.90  | 165  | 34211    | 5.976     | ng    | # 23   |
| 64) 4,6-Dinitro-2-methylphenol | 10.70 | 198  | 349      | 5.051     | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.70 | 248  | 14262    | 2.818     | ng    | # 1    |

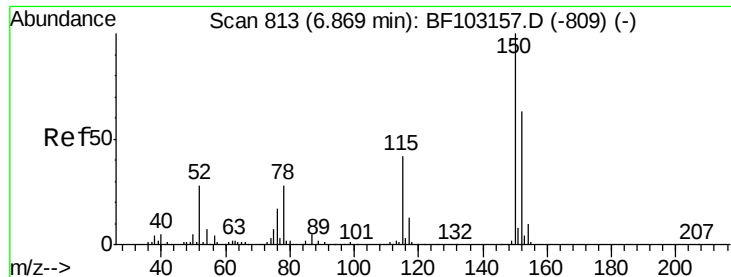
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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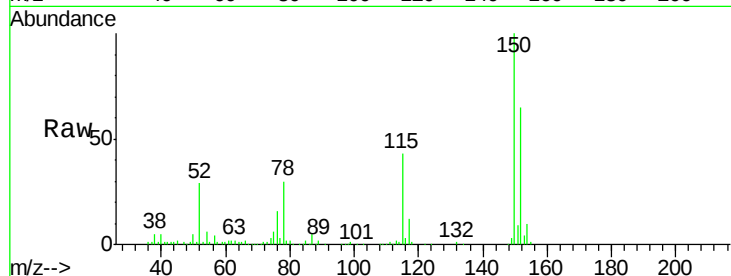


#1

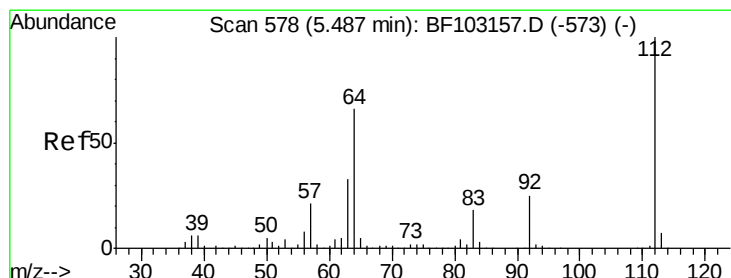
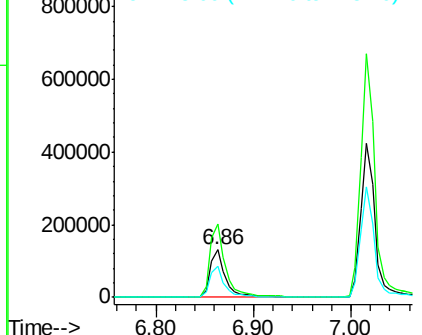
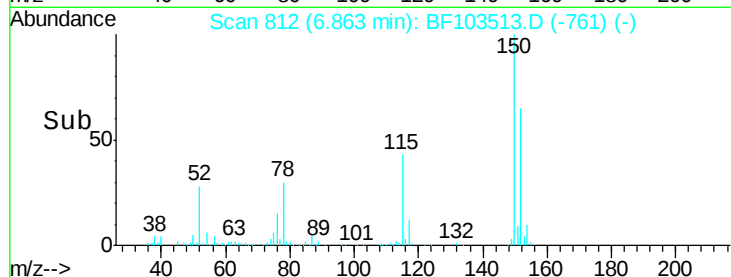
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.86 min Scan# 812  
Delta R.T. 0.00 min  
Lab File: BF103513.D  
Acq: 8 Mar 2018 13:48

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 146694  
Ion Ratio Lower Upper  
152 100  
150 154.5 124.6 186.8  
115 65.7 50.1 75.1



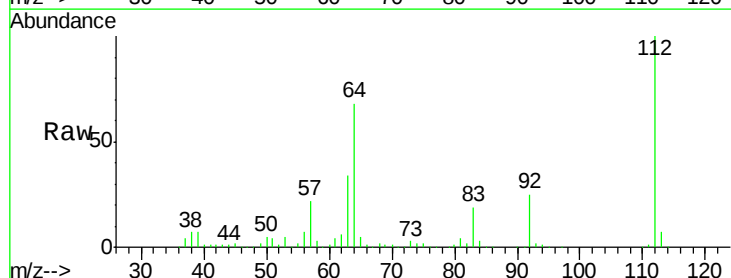
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



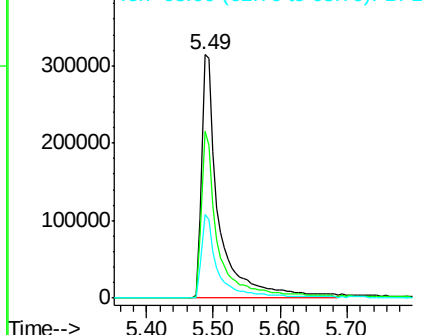
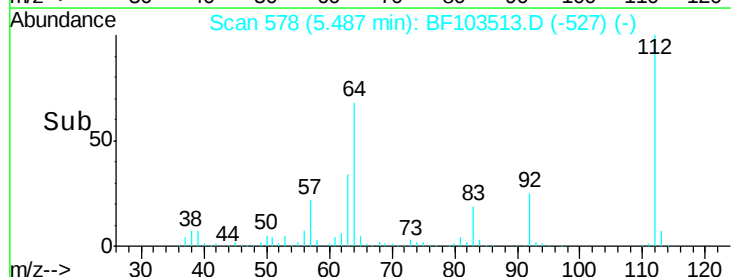
#5

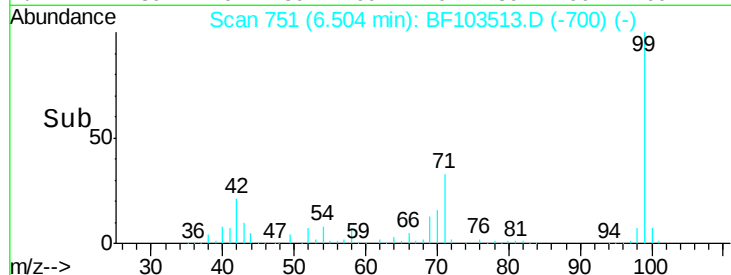
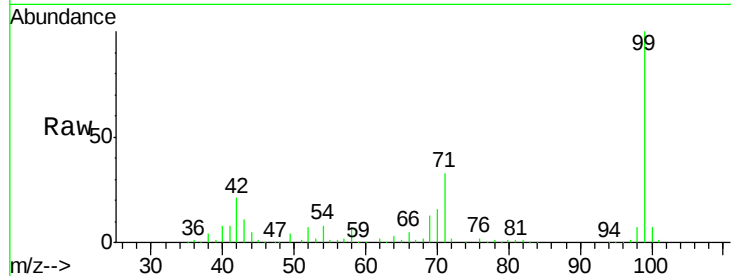
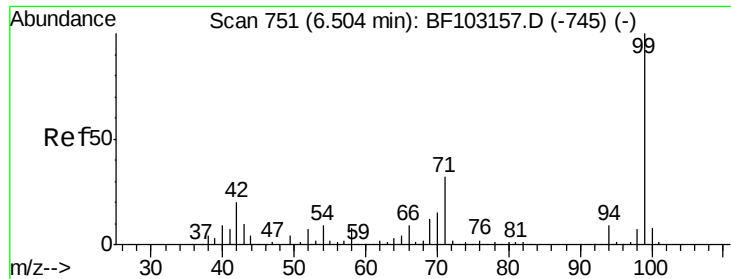
2-Fluorophenol  
Concen: 58.008 ng  
RT: 5.49 min Scan# 578  
Delta R.T. 0.00 min  
Lab File: BF103513.D  
Acq: 8 Mar 2018 13:48

Tgt Ion:112 Resp: 562629  
Ion Ratio Lower Upper  
112 100  
64 68.4 47.9 71.9  
63 34.3 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: 42.843 ng

RT: 6.50 min Scan# 751

Delta R.T. 0.00 min

Lab File: BF103513.D

Acq: 8 Mar 2018 13:48

Instrument :

BNA\_F

ClientSampleId :

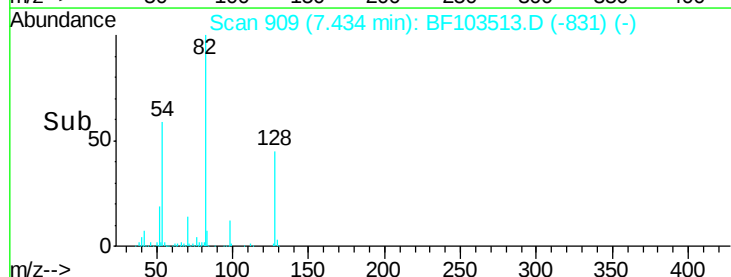
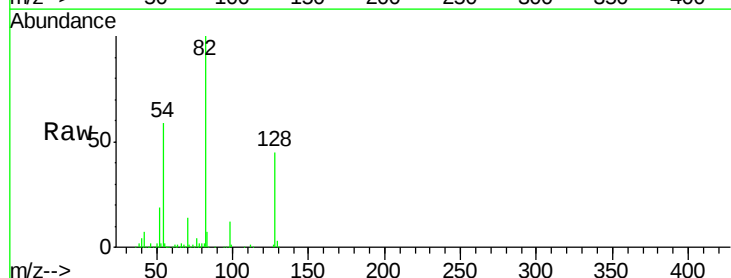
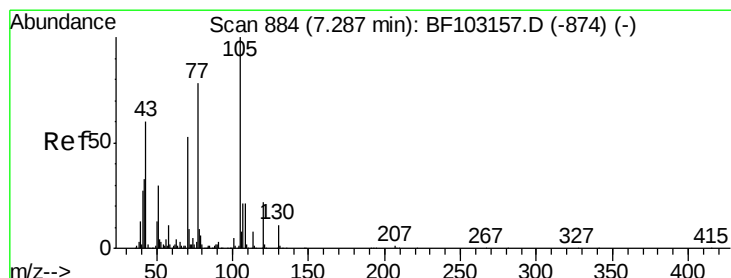
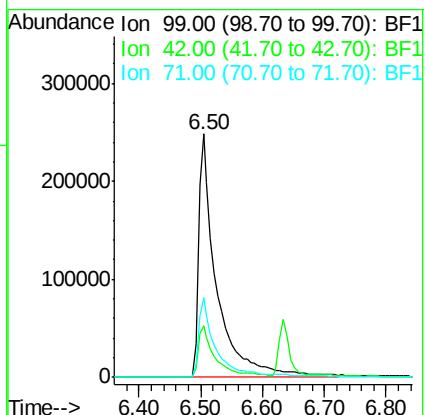
Tot Ion: 99 Resp: 508483

Ion Ratio Lower Upper

99 100

42 21.1 14.5 21.7

71 32.5 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 16.612 ng

RT: 7.43 min Scan# 909

Delta R.T. 0.16 min

Lab File: BF103513.D

Acq: 8 Mar 2018 13:48

Tgt Ion: 70 Resp: 122703

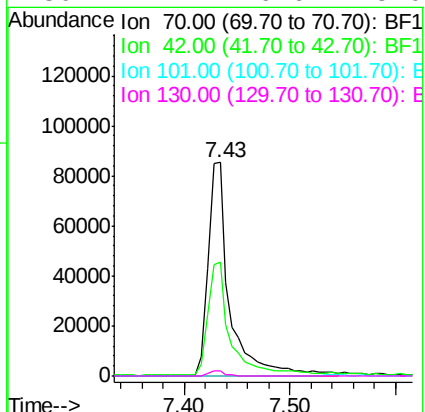
Ion Ratio Lower Upper

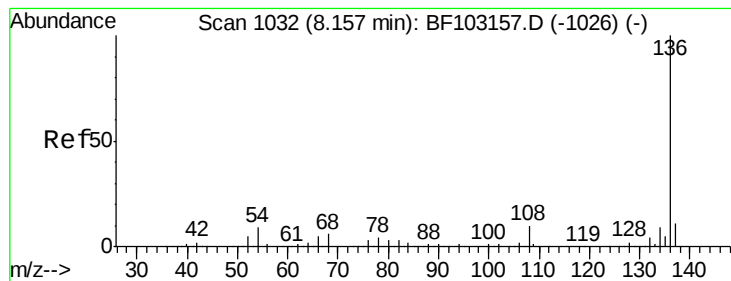
70 100

42 53.3 47.5 71.3

101 0.0 7.4 11.2#

130 2.4 16.6 25.0#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.15 min Scan# 1030

Delta R.T. -0.01 min

Lab File: BF103513.D

Acq: 8 Mar 2018 13:48

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 604074

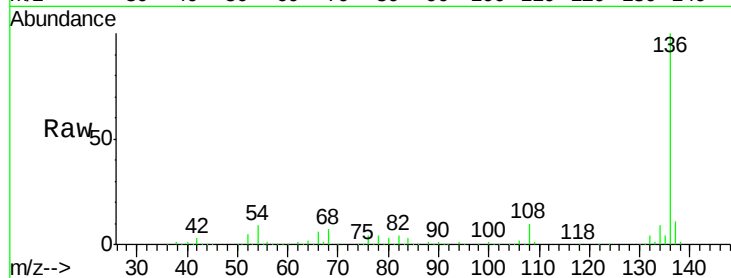
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 9.3 6.6 9.8

68 6.9 5.0 7.4

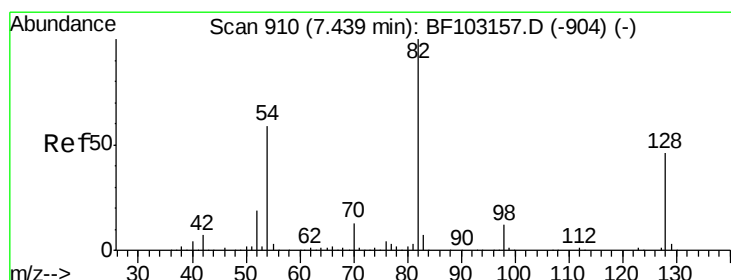
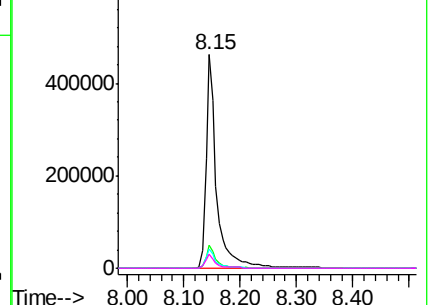
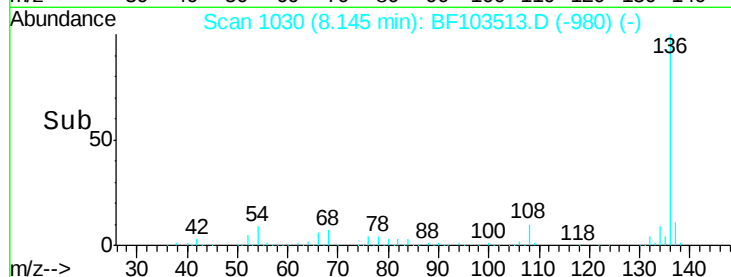


Abundance Ion 136.00 (135.70 to 136.70): E

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



#23

Nitrobenzene-d5

Concen: 85.818 ng

RT: 7.43 min Scan# 909

Delta R.T. -0.01 min

Lab File: BF103513.D

Acq: 8 Mar 2018 13:48

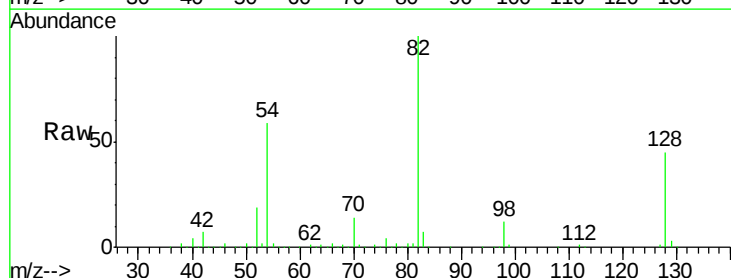
Tgt Ion: 82 Resp: 907751

Ion Ratio Lower Upper

82 100

128 45.0 36.1 54.1

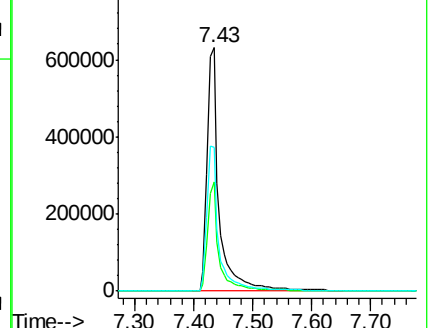
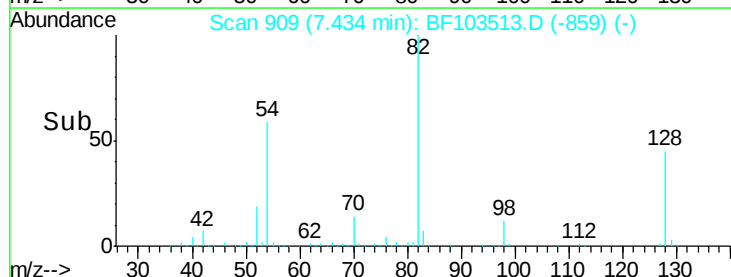
54 59.1 41.4 62.2

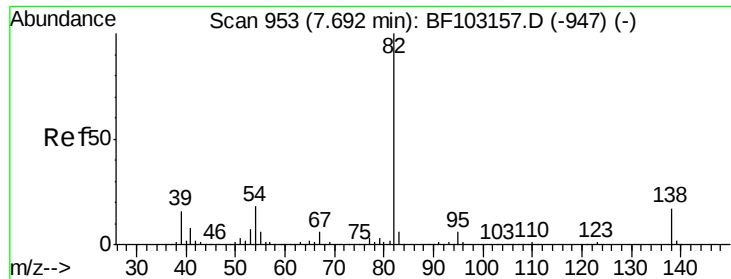


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 43.573 ng

RT: 7.43 min Scan# 909

Delta R.T. -0.25 min

Lab File: BF103513.D

Acq: 8 Mar 2018 13:48

Instrument :

BNA\_F

ClientSampleId :

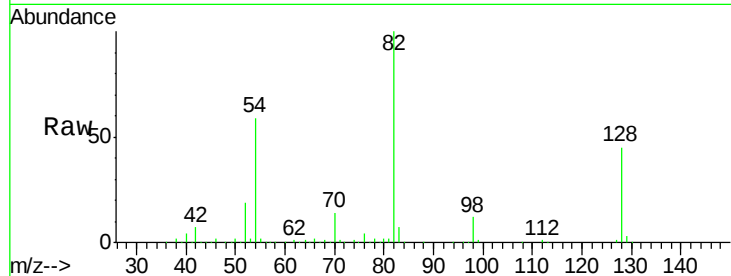
Tot Ion: 82 Resp: 907751

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

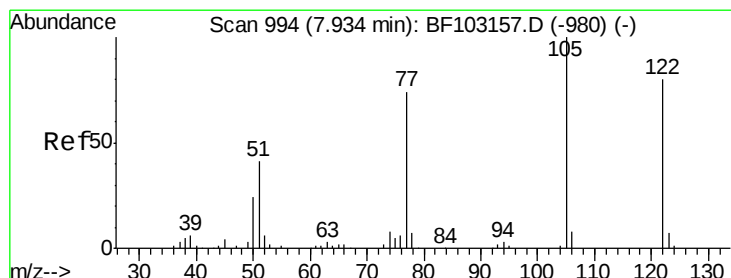
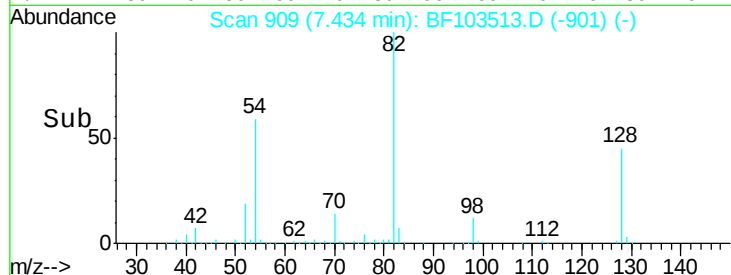
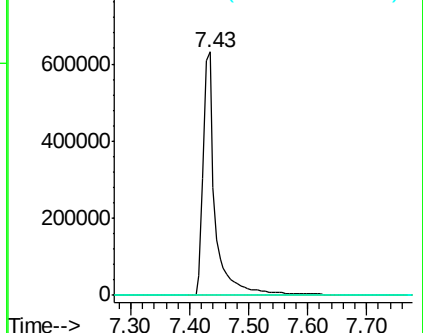
138 0.0 14.9 22.3#



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



#32

Benzoic acid

Concen: 7.398 ng

RT: 7.98 min Scan# 1002

Delta R.T. 0.02 min

Lab File: BF103513.D

Acq: 8 Mar 2018 13:48

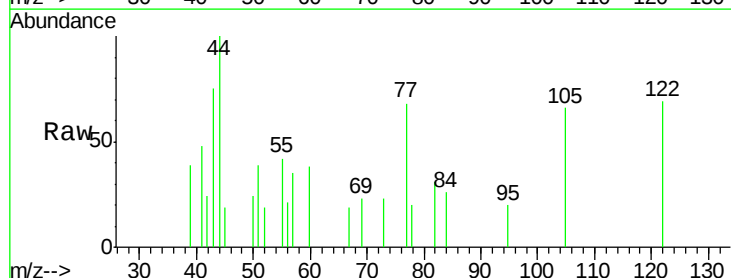
Tgt Ion: 122 Resp: 3516

Ion Ratio Lower Upper

122 100

105 96.3 101.1 141.1#

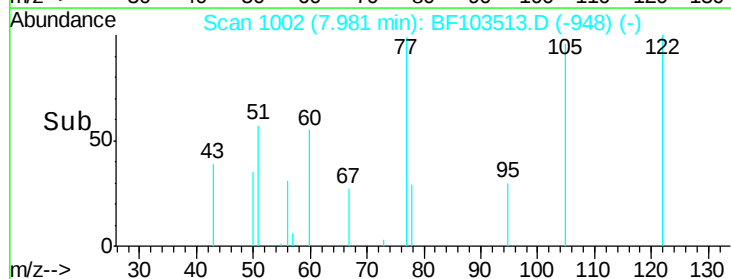
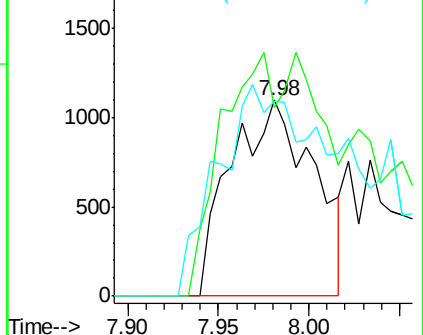
77 99.4 70.7 110.7

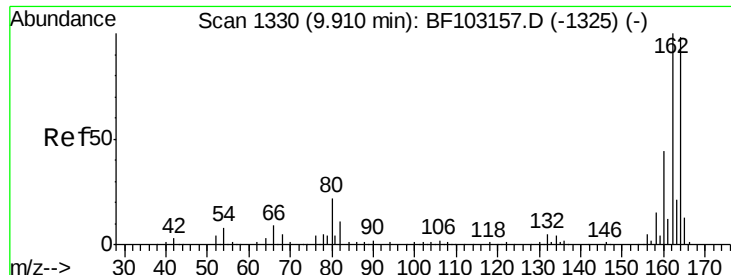


Abundance Ion 122.00 (121.70 to 122.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 77.00 (76.70 to 77.70): BF1





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.90 min Scan# 1329

Delta R.T. -0.01 min

Lab File: BF103513.D

Acq: 8 Mar 2018 13:48

Instrument :

BNA\_F

ClientSampleId :

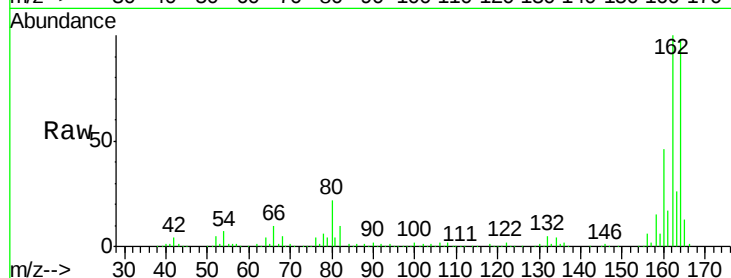
Tot Ion:164 Resp: 268889

Ion Ratio Lower Upper

164 100

162 101.6 86.1 129.1

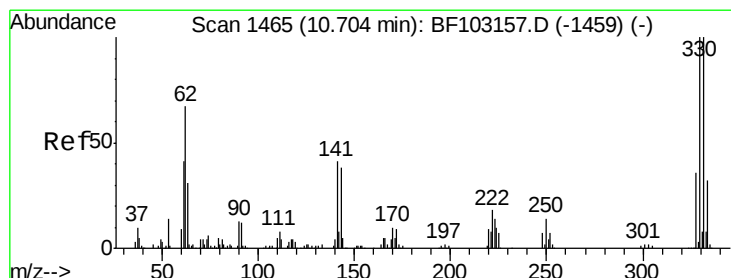
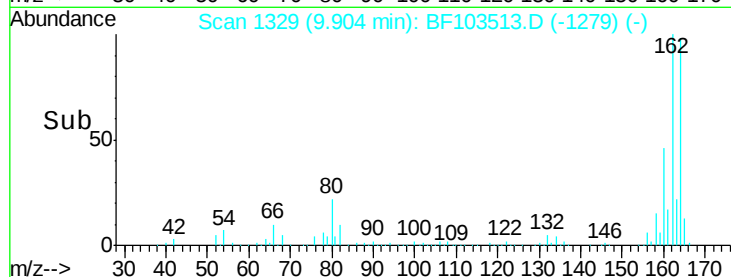
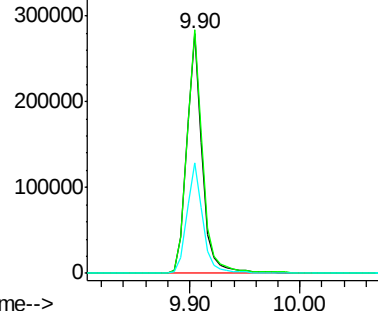
160 46.4 38.3 57.5



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: 93.053 ng

RT: 10.70 min Scan# 1465

Delta R.T. 0.00 min

Lab File: BF103513.D

Acq: 8 Mar 2018 13:48

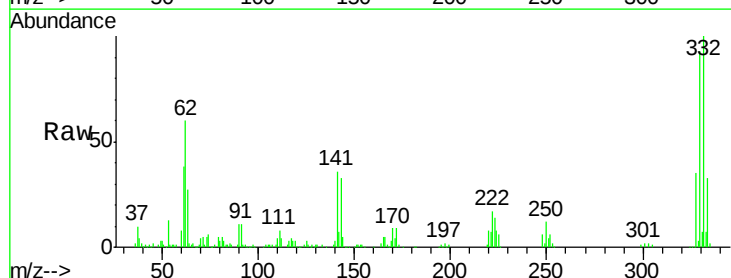
Tgt Ion:330 Resp: 211789

Ion Ratio Lower Upper

330 100

332 104.1 77.0 115.6

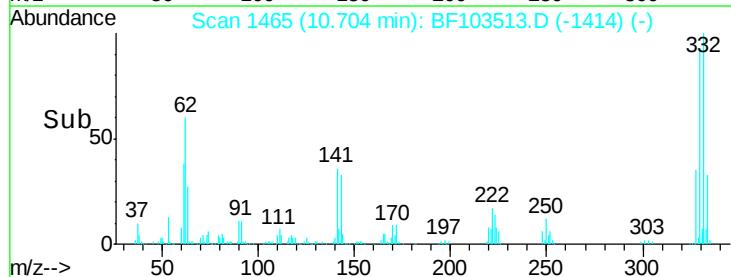
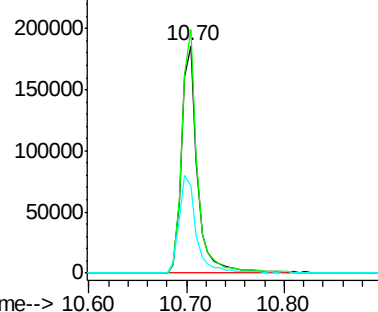
141 47.6 29.9 44.9#

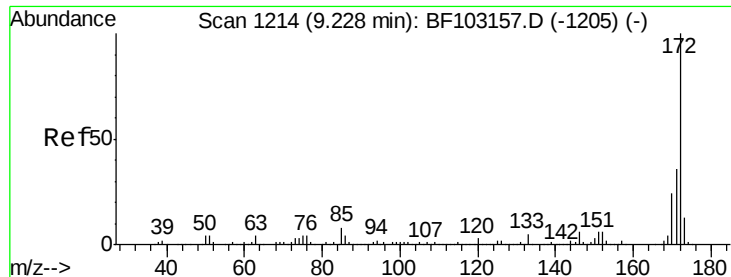


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

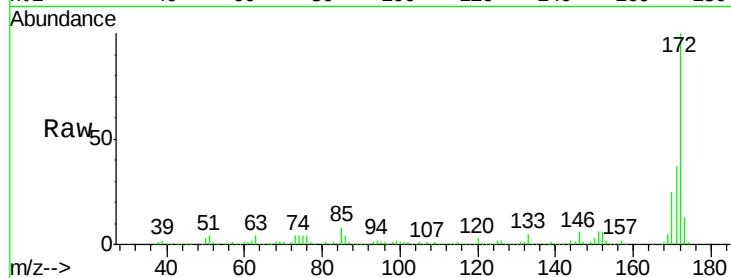




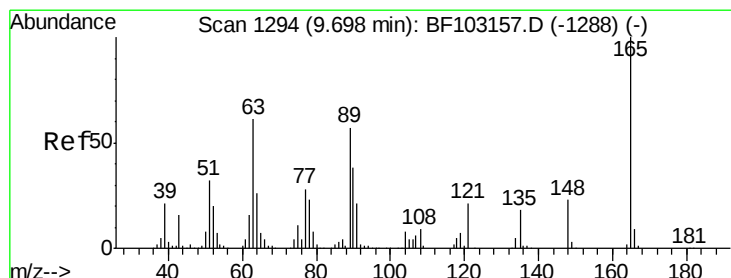
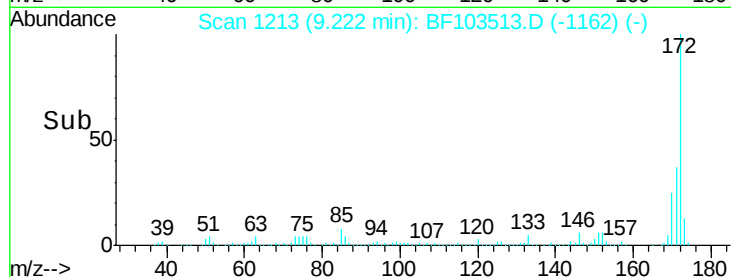
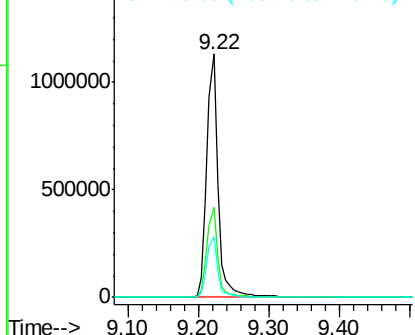
#44  
 2-Fluorobiphenyl  
 Concen: 79.893 ng  
 RT: 9.22 min Scan# 1213  
 Delta R.T. 0.00 min  
 Lab File: BF103513.D  
 Acq: 8 Mar 2018 13:48

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:172 Resp: 1265194  
 Ion Ratio Lower Upper  
 172 100  
 171 37.2 29.7 44.5  
 170 24.9 19.6 29.4

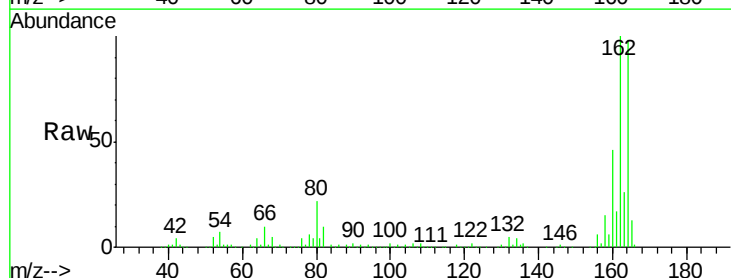


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

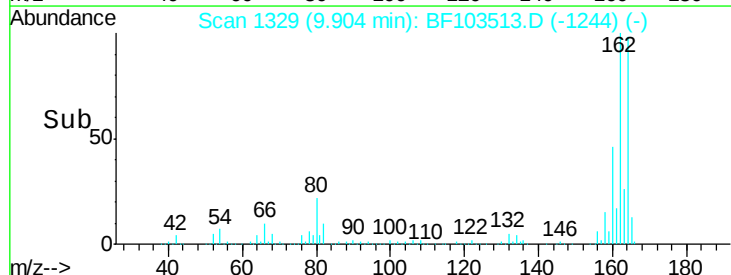
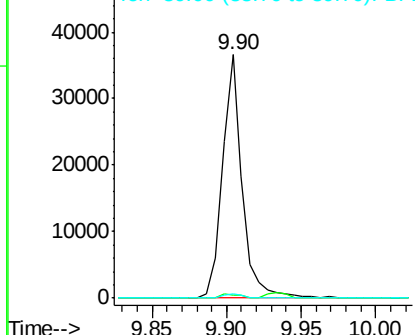


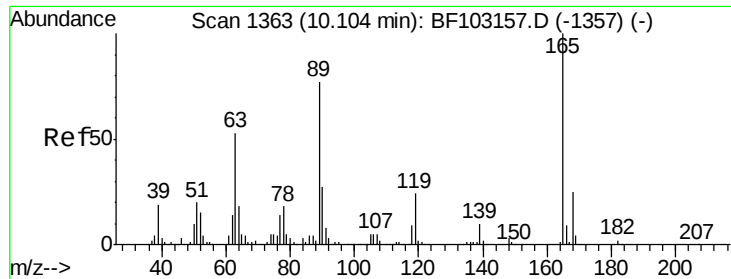
#50  
 2,6-Dinitrotoluene  
 Concen: 7.557 ng  
 RT: 9.90 min Scan# 1329  
 Delta R.T. 0.20 min  
 Lab File: BF103513.D  
 Acq: 8 Mar 2018 13:48

Tgt Ion:165 Resp: 34210  
 Ion Ratio Lower Upper  
 165 100  
 63 1.4 44.7 67.1#  
 89 1.5 44.0 66.0#



Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1

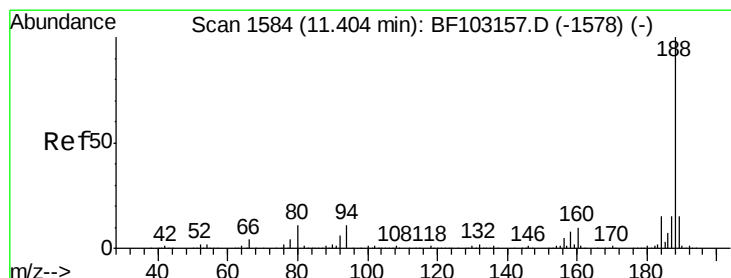
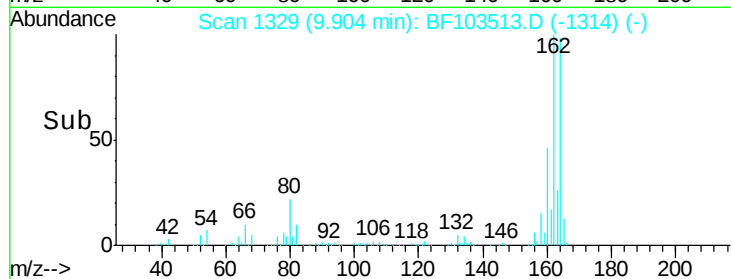
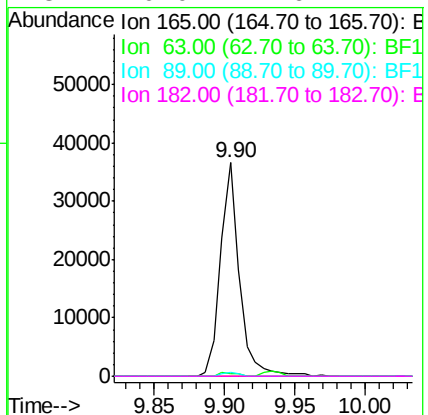
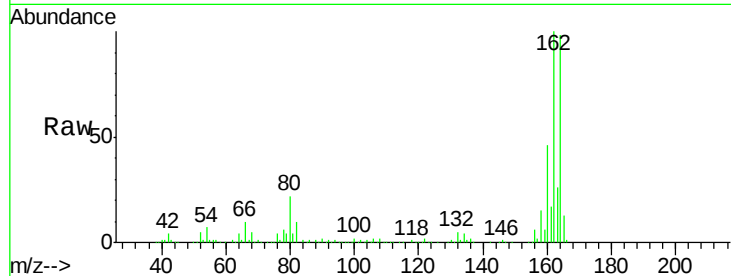




#56  
 2,4-Dinitrotoluene  
 Concen: 5.976 ng  
 RT: 9.90 min Scan# 1329  
 Delta R.T. -0.21 min  
 Lab File: BF103513.D  
 Acq: 8 Mar 2018 13:48

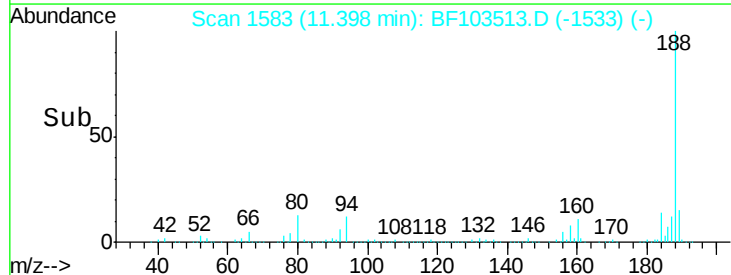
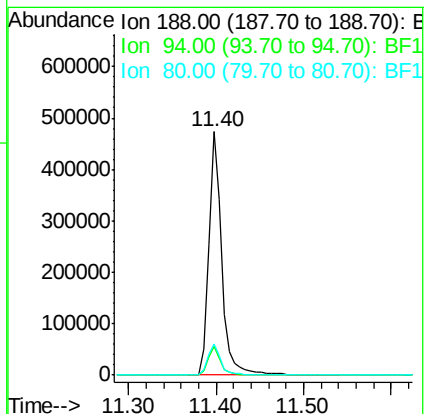
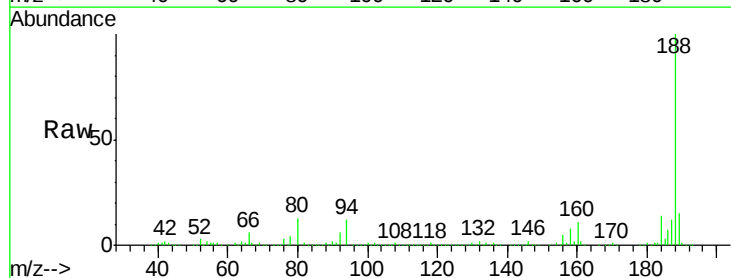
Instrument :  
 BNA\_F  
 ClientSampled :

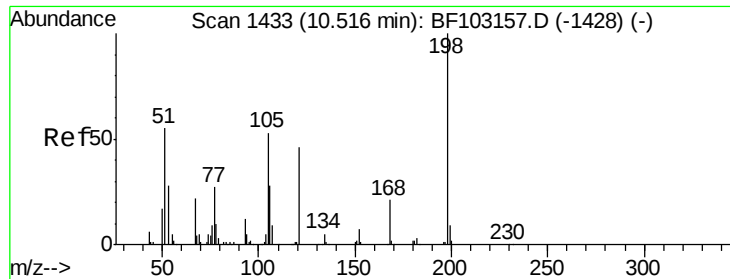
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 165   | Resp: | 34211 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 1.4   | 36.4  | 54.6# |
| 89       | 1.5   | 57.8  | 86.6# |
| 182      | 0.0   | 1.6   | 2.4#  |



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.40 min Scan# 1583  
 Delta R.T. -0.01 min  
 Lab File: BF103513.D  
 Acq: 8 Mar 2018 13:48

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 485759 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 11.9  | 8.5   | 12.7   |
| 80       | 12.7  | 9.2   | 13.8   |

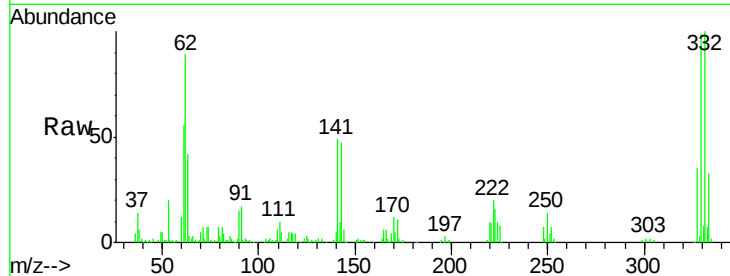




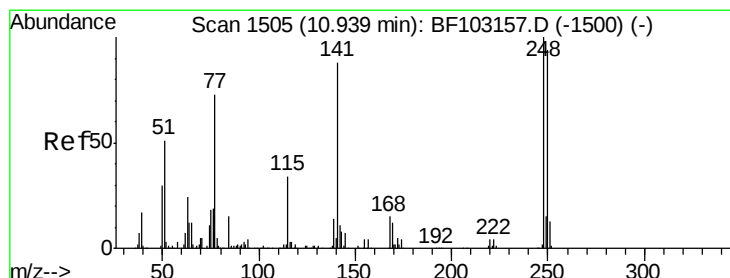
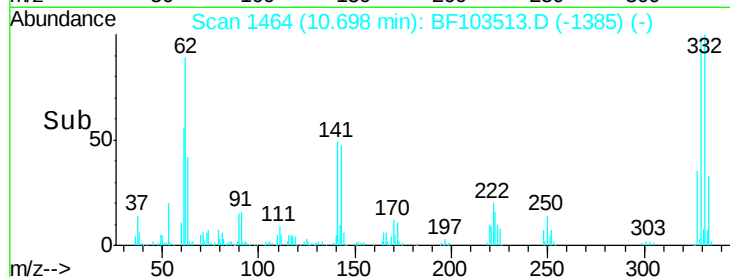
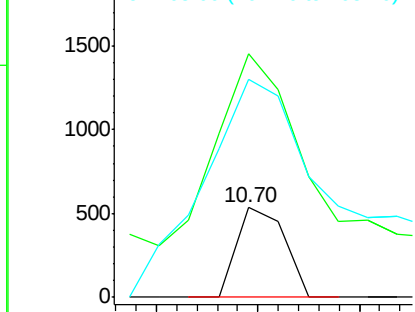
#64  
4,6-Dinitro-2-methylphenol  
Concen: 5.051 ng  
RT: 10.70 min Scan# 1464  
Delta R.T. 0.16 min  
Lab File: BF103513.D  
Acq: 8 Mar 2018 13:48

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:198 Resp: 349  
Ion Ratio Lower Upper  
198 100  
51 271.6 37.7 77.7#  
105 243.6 36.3 76.3#

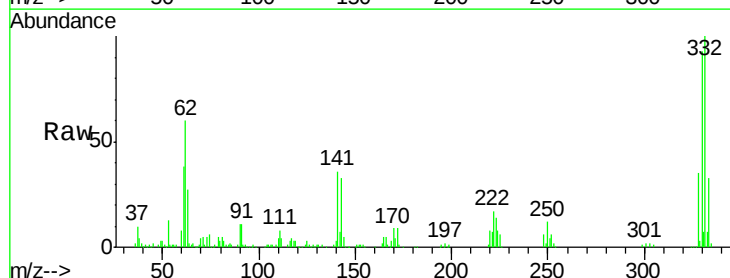


Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BF1  
Ion 105.00 (104.70 to 105.70): E

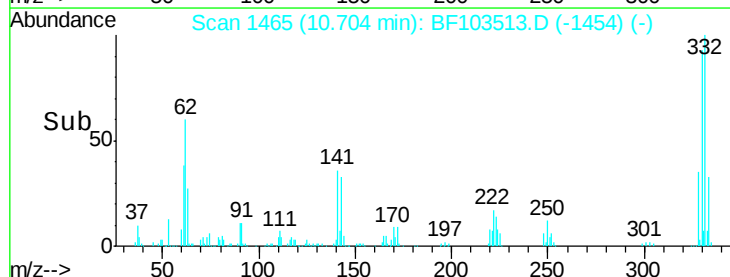
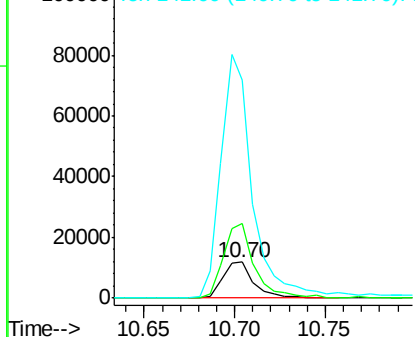


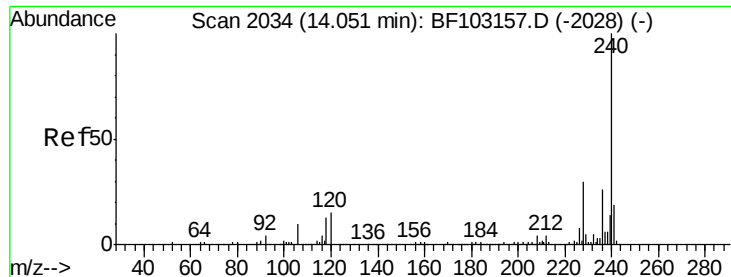
#66  
4-Bromophenyl-phenylether  
Concen: 2.818 ng  
RT: 10.70 min Scan# 1465  
Delta R.T. -0.24 min  
Lab File: BF103513.D  
Acq: 8 Mar 2018 13:48

Tgt Ion:248 Resp: 14262  
Ion Ratio Lower Upper  
248 100  
250 207.2 76.9 115.3#  
141 611.0 74.4 111.6#



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: 14.05 min Scan# 2034

Delta R.T. -0.01 min

Lab File: BF103513.D

Acq: 8 Mar 2018 13:48

Instrument :

BNA\_F

ClientSampleId :

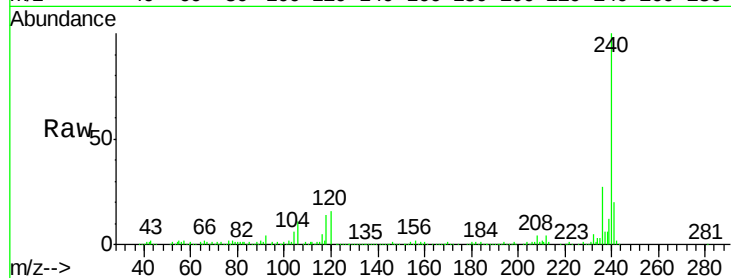
Tot Ion:240 Resp: 369162

Ion Ratio Lower Upper

240 100

120 16.3 9.5 14.3#

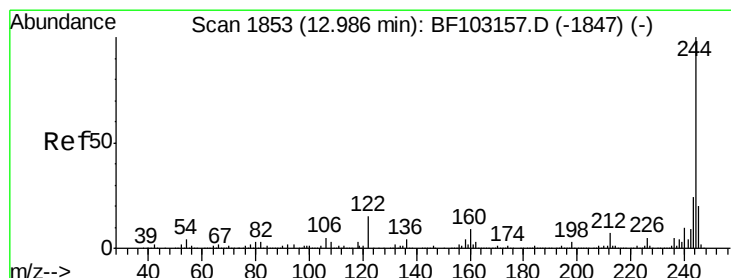
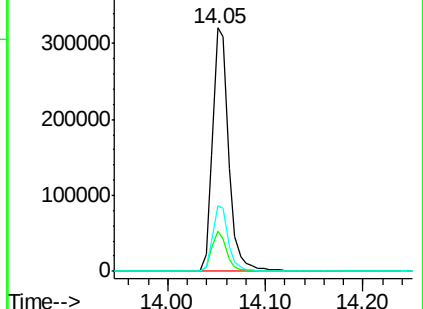
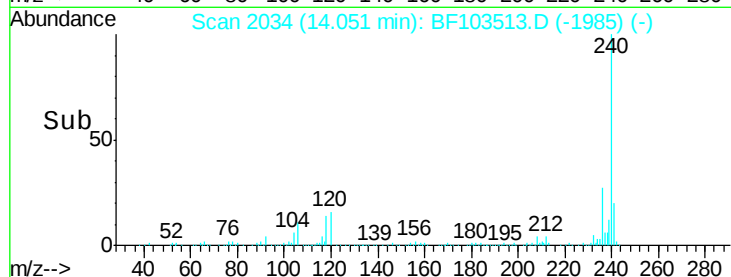
236 26.9 20.7 31.1



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: 72.340 ng

RT: 12.99 min Scan# 1853

Delta R.T. 0.00 min

Lab File: BF103513.D

Acq: 8 Mar 2018 13:48

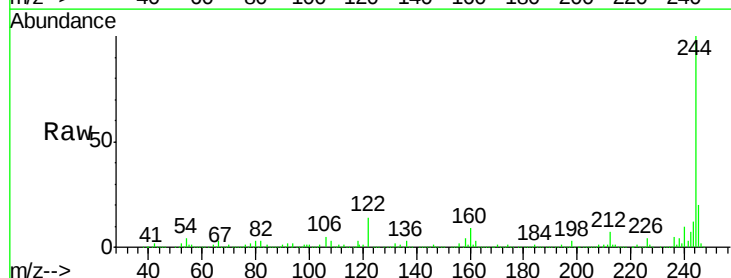
Tgt Ion:244 Resp: 1110926

Ion Ratio Lower Upper

244 100

212 7.2 5.4 8.0

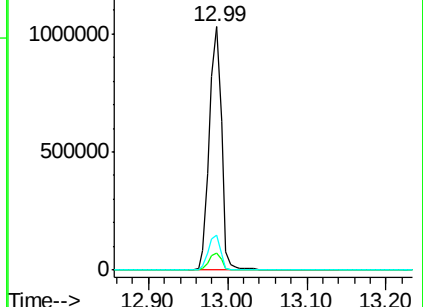
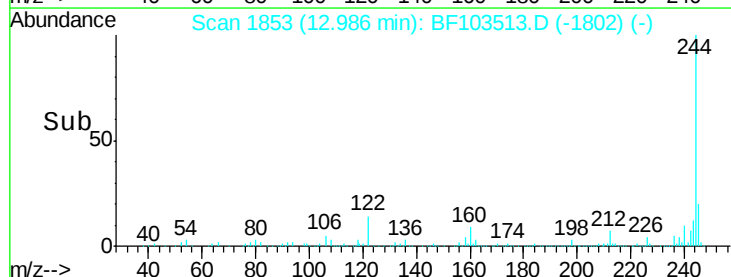
122 14.3 11.0 16.4

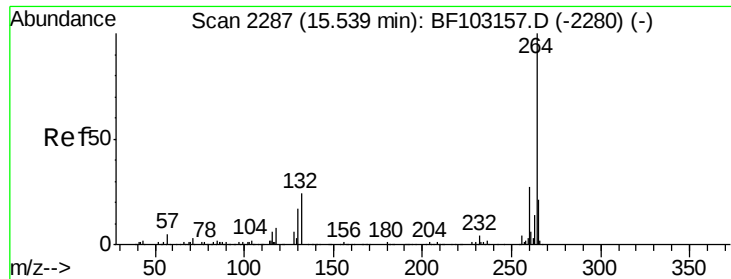


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

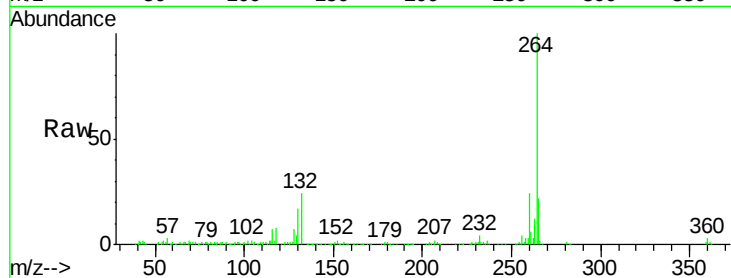




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.56 min Scan# 2290  
Delta R.T. -0.01 min  
Lab File: BF103513.D  
Acq: 8 Mar 2018 13:48

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.3  | 19.2  | 28.8  |
| 265     | 21.7  | 17.5  | 26.3  |



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

