

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100417\  
 Data File : BF099083.D  
 Acq On : 4 Oct 2017 22:52  
 Operator : SJ/JU  
 Sample : I5644-09  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 05 01:11:52 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Sep 23 13:50:58 2017  
 Response via : Initial Calibration

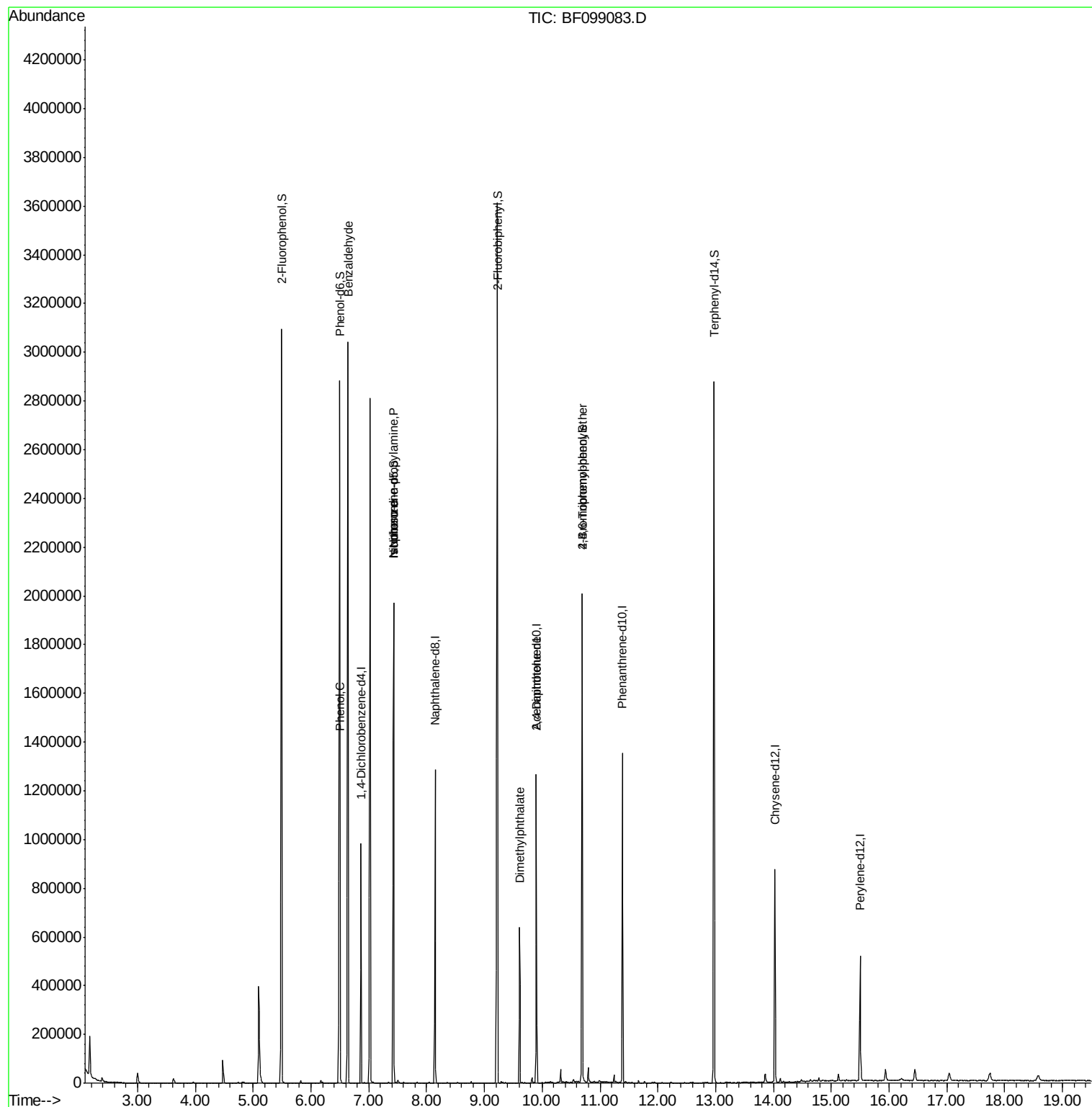
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.86  | 152  | 134071   | 20.00  | ng    | -0.06    |
| 21) Naphthalene-d8             | 8.15  | 136  | 545217   | 20.00  | ng    | -0.06    |
| 38) Acenaphthene-d10           | 9.90  | 164  | 248562   | 20.00  | ng    | -0.06    |
| 63) Phenanthrene-d10           | 11.39 | 188  | 433965   | 20.00  | ng    | -0.06    |
| 75) Chrysene-d12               | 14.03 | 240  | 295477   | 20.00  | ng    | -0.06    |
| 86) Perylene-d12               | 15.50 | 264  | 199281   | 20.00  | ng    | -0.08    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.49  | 112  | 1005066  | 119.34 | ng    | -0.05    |
| 7) Phenol-d6                   | 6.50  | 99   | 1212828  | 116.74 | ng    | -0.05    |
| 23) Nitrobenzene-d5            | 7.43  | 82   | 742229   | 87.30  | ng    | -0.06    |
| 41) 2,4,6-Tribromophenol       | 10.69 | 330  | 249341   | 122.59 | ng    | -0.06    |
| 44) 2-Fluorobiphenyl           | 9.22  | 172  | 1196254  | 80.34  | ng    | -0.06    |
| 78) Terphenyl-d14              | 12.97 | 244  | 980447   | 75.46  | ng    | -0.06    |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 9) Benzaldehyde                | 6.63  | 77   | 19704    | 3.27   | ng    | 86       |
| 10) Phenol                     | 6.51  | 94   | 30556    | 2.63   | ng    | 95       |
| 19) n-Nitroso-di-n-propylamine | 7.43  | 70   | 96999    | 14.62  | ng    | # 74     |
| 25) Isophorone                 | 7.43  | 82   | 737318   | 41.95  | ng    | # 64     |
| 49) Dimethylphthalate          | 9.61  | 163  | 236442   | 12.60  | ng    | 99       |
| 56) 2,4-Dinitrotoluene         | 9.90  | 165  | 31237    | 5.89   | ng    | # 23     |
| 66) 4-Bromophenyl-phenylether  | 10.69 | 248  | 16816    | 3.96   | ng    | # 1      |

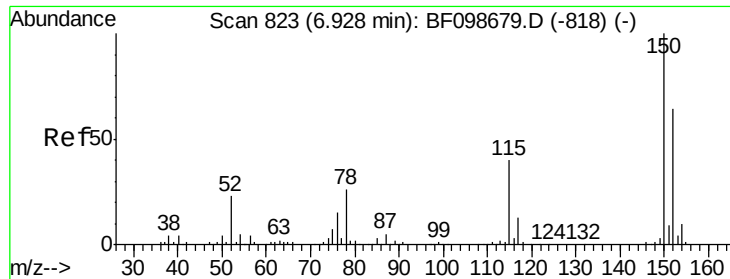
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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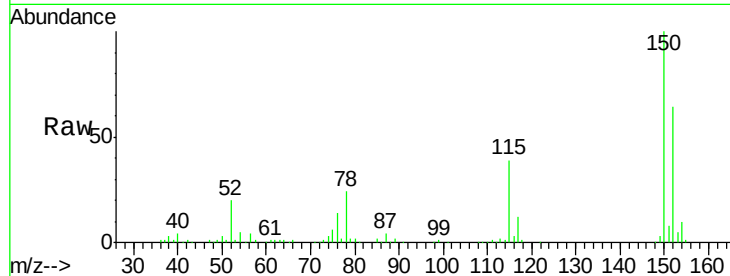


#1

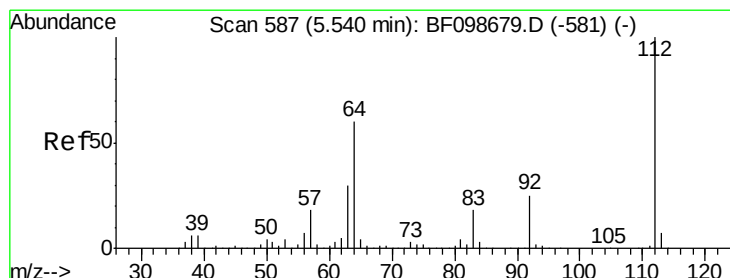
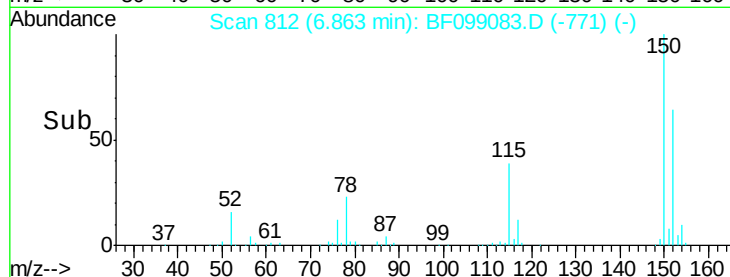
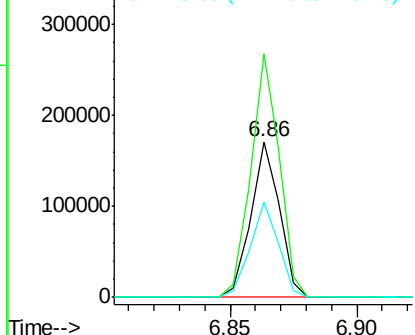
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.86 min Scan# 812  
Delta R.T. -0.06 min  
Lab File: BF099083.D  
Acq: 4 Oct 2017 22:52

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 134071  
Ion Ratio Lower Upper  
152 100  
150 156.2 124.6 186.8  
115 61.0 50.1 75.1



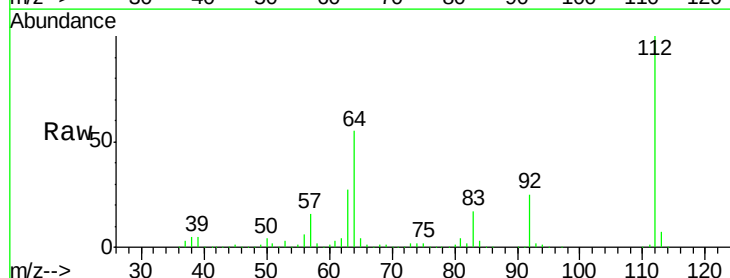
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



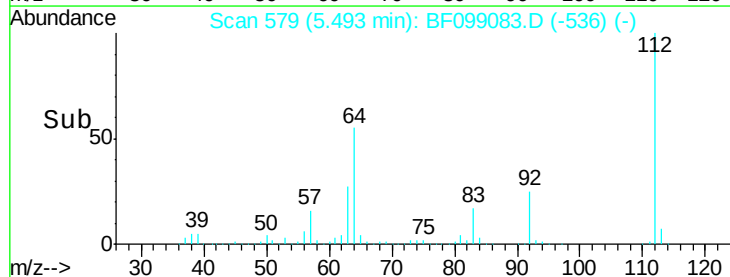
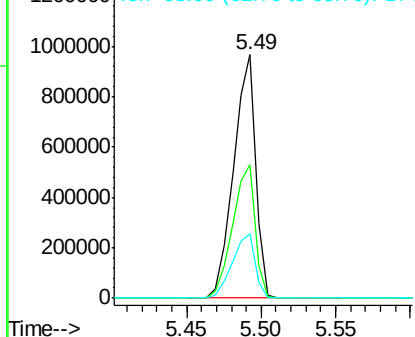
#5

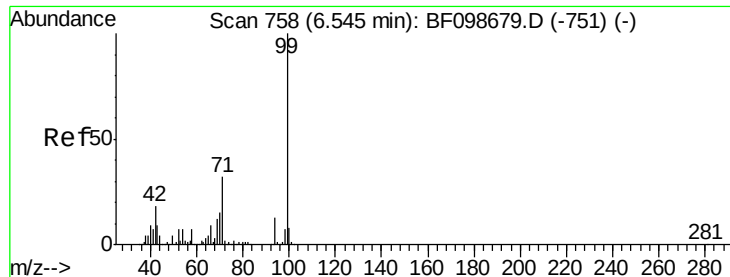
2-Fluorophenol  
Concen: 119.34 ng  
RT: 5.49 min Scan# 579  
Delta R.T. -0.05 min  
Lab File: BF099083.D  
Acq: 4 Oct 2017 22:52

Tgt Ion:112 Resp: 1005066  
Ion Ratio Lower Upper  
112 100  
64 54.8 47.9 71.9  
63 26.6 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 116.74 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.05 min

Lab File: BF099083.D

Acq: 4 Oct 2017 22:52

Instrument :

BNA\_F

ClientSampled :

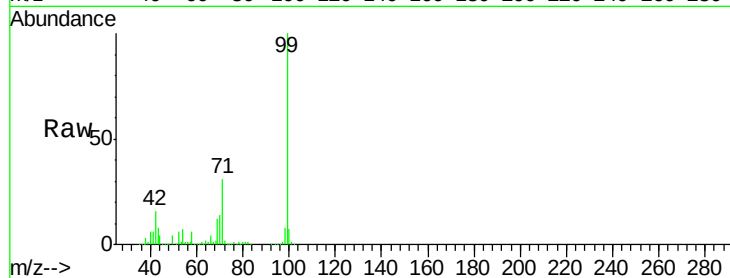
Tot Ion: 99 Resp: 1212828

Ion Ratio Lower Upper

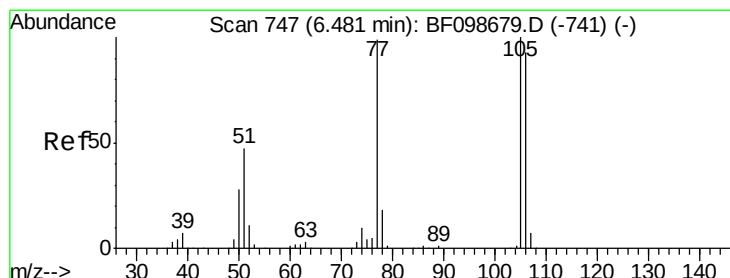
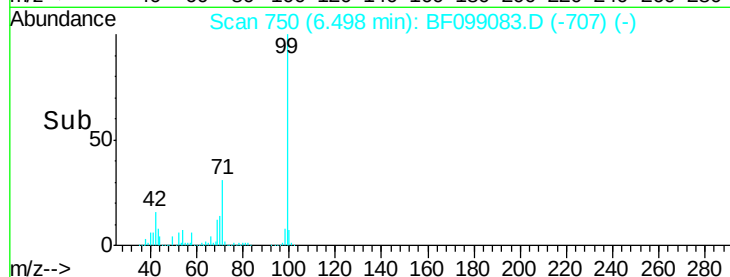
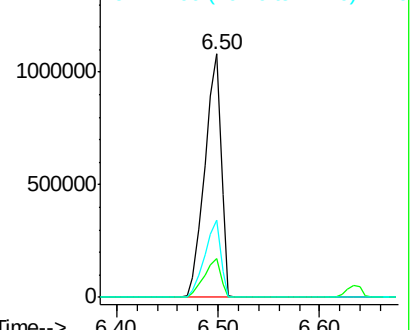
99 100

42 16.2 14.5 21.7

71 31.5 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF0  
Ion 42.00 (41.70 to 42.70): BF0  
Ion 71.00 (70.70 to 71.70): BF0



#9

Benzaldehyde

Concen: 3.27 ng

RT: 6.63 min Scan# 773

Delta R.T. 0.16 min

Lab File: BF099083.D

Acq: 4 Oct 2017 22:52

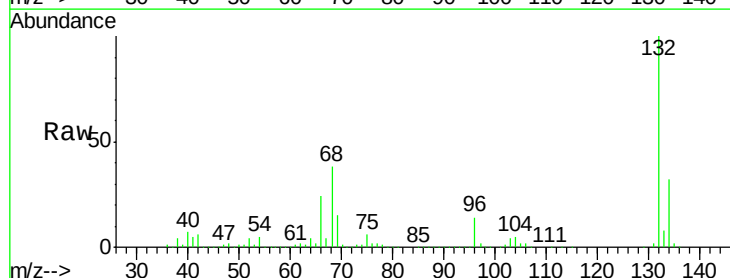
Tgt Ion: 77 Resp: 19704

Ion Ratio Lower Upper

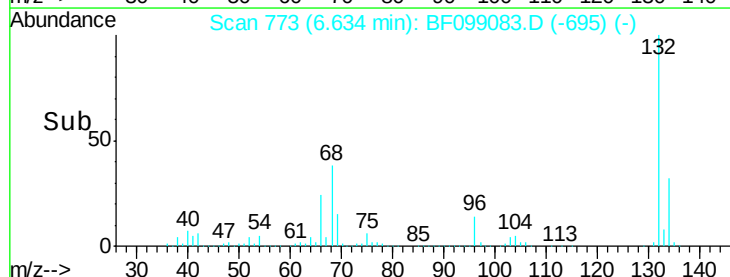
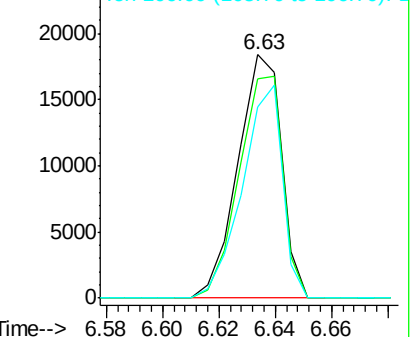
77 100

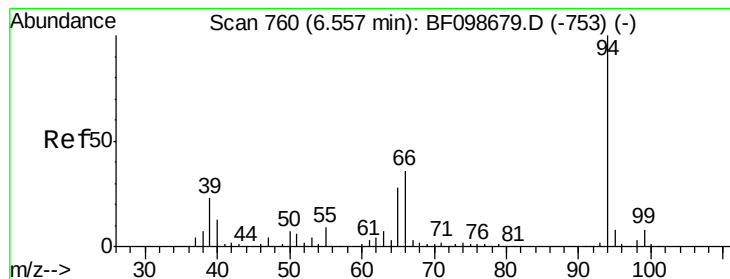
105 89.9 81.1 121.1

106 78.6 74.5 114.5



Abundance Ion 77.00 (76.70 to 77.70): BF0  
Ion 105.00 (104.70 to 105.70): BF0  
Ion 106.00 (105.70 to 106.70): BF0





#10

Phenol

Concen: 2.63 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.05 min

Lab File: BF099083.D

Acq: 4 Oct 2017 22:52

Instrument :

BNA\_F

ClientSampleId :

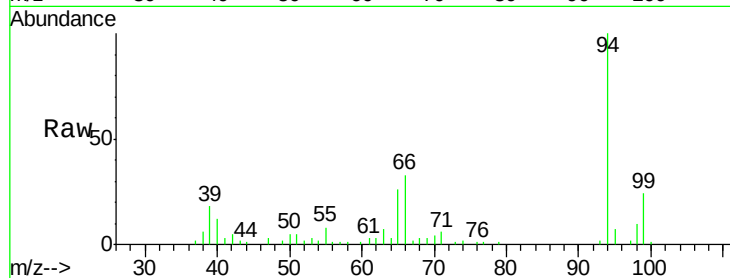
Tot Ion: 94 Resp: 30556

Ion Ratio Lower Upper

94 100

65 26.0 7.9 47.9

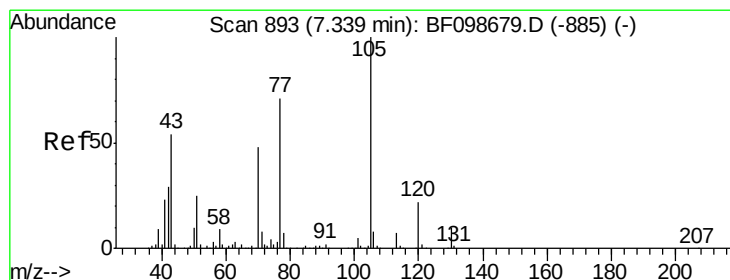
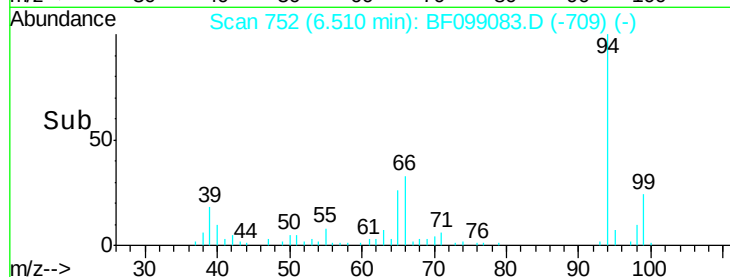
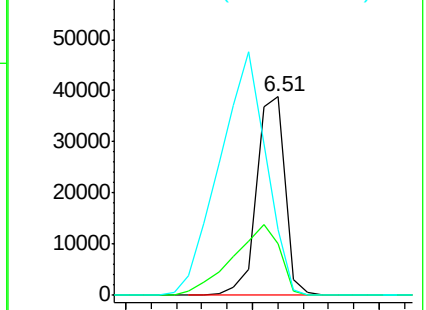
66 32.8 16.2 56.2



Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 14.62 ng

RT: 7.43 min Scan# 908

Delta R.T. 0.09 min

Lab File: BF099083.D

Acq: 4 Oct 2017 22:52

Tgt Ion: 70 Resp: 96999

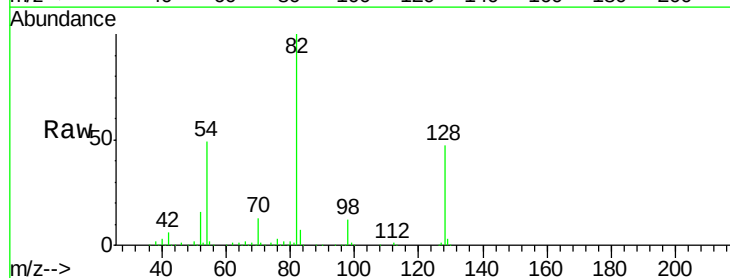
Ion Ratio Lower Upper

70 100

42 43.8 47.5 71.3#

101 0.0 7.4 11.2#

130 2.4 16.6 25.0#

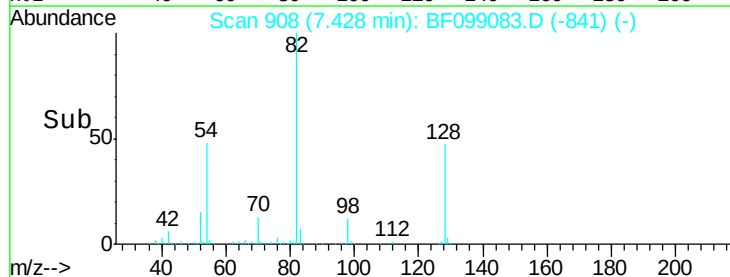
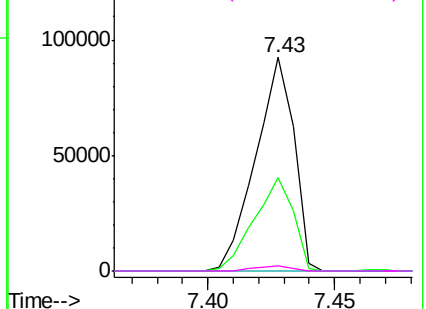


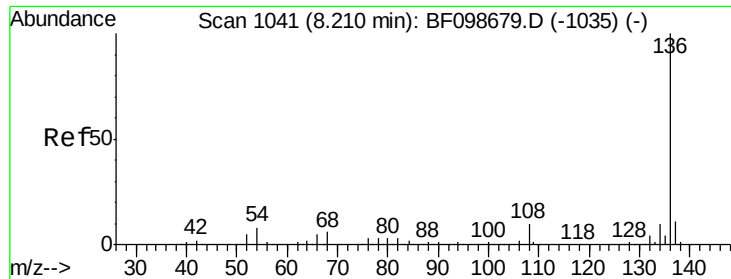
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

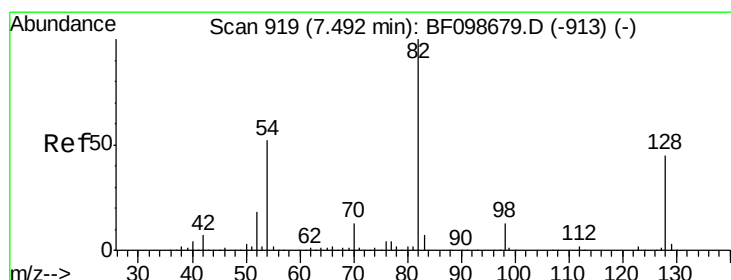
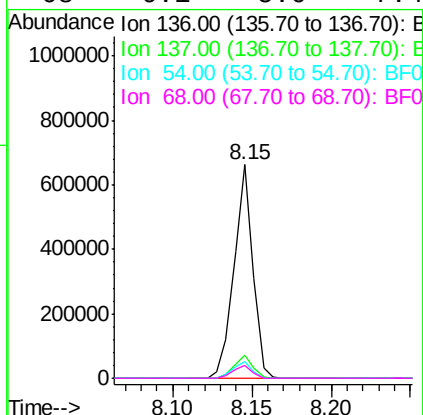
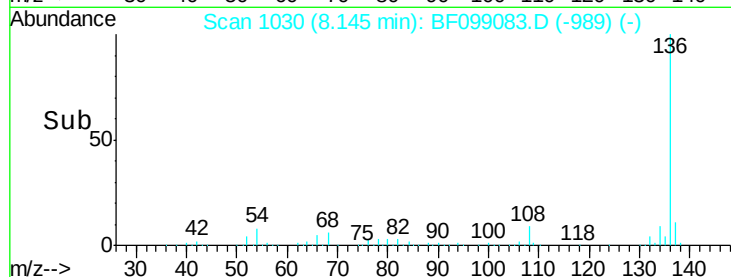
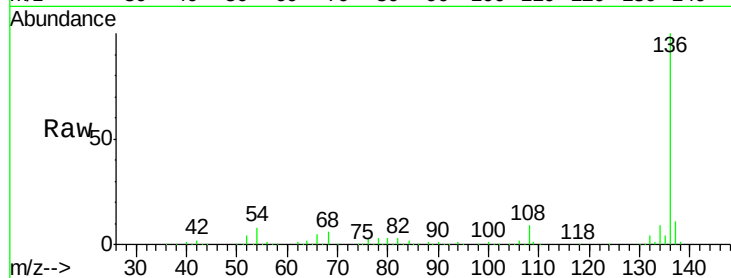




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.15 min Scan# 1030  
Delta R.T. -0.06 min  
Lab File: BF099083.D  
Acq: 4 Oct 2017 22:52

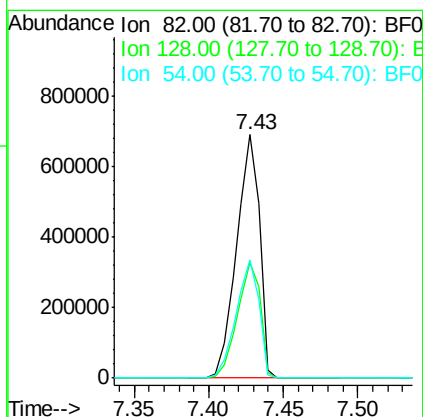
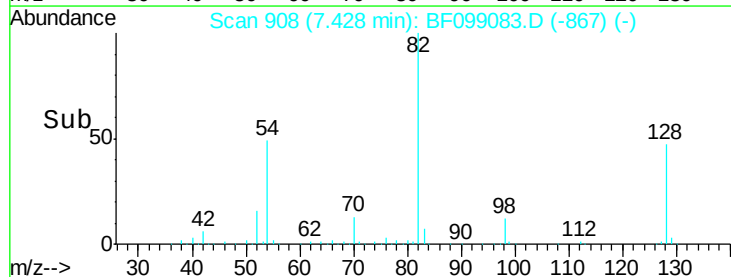
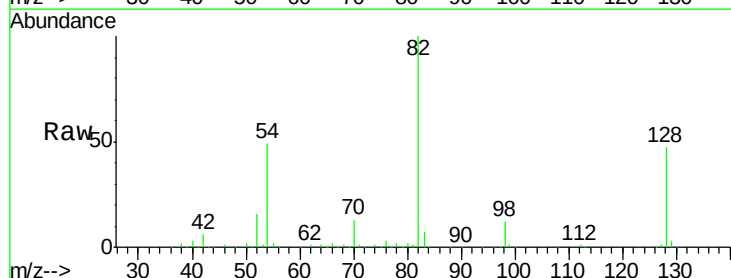
Instrument :  
BNA\_F  
ClientSampleId :

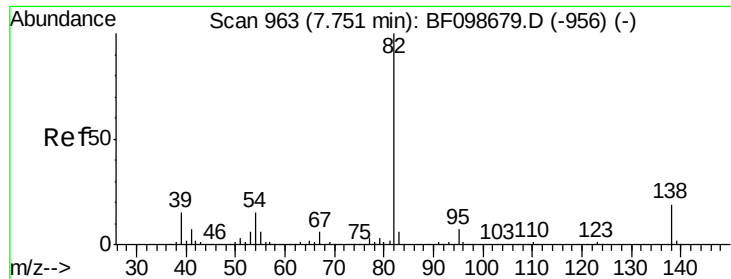
|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 545217      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.1  | 8.9 13.3    |
| 54          | 7.5   | 6.6 9.8     |
| 68          | 6.1   | 5.0 7.4     |



#23  
Nitrobenzene-d5  
Concen: 87.30 ng  
RT: 7.43 min Scan# 908  
Delta R.T. -0.06 min  
Lab File: BF099083.D  
Acq: 4 Oct 2017 22:52

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 742229      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 47.4  | 36.1 54.1   |
| 54          | 48.6  | 41.4 62.2   |





#25

Isophorone

Concen: 41.95 ng

RT: 7.43 min Scan# 908

Delta R.T. -0.32 min

Lab File: BF099083.D

Acq: 4 Oct 2017 22:52

Instrument :

BNA\_F

ClientSampled :

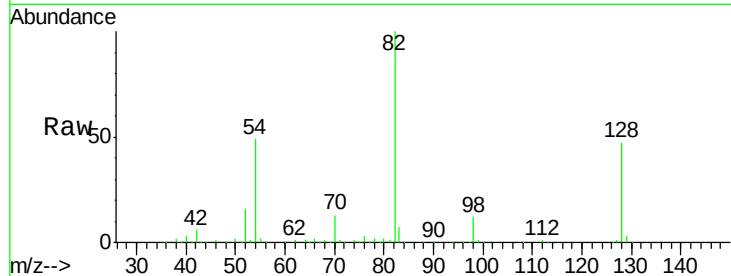
Tot Ion: 82 Resp: 737318

Ion Ratio Lower Upper

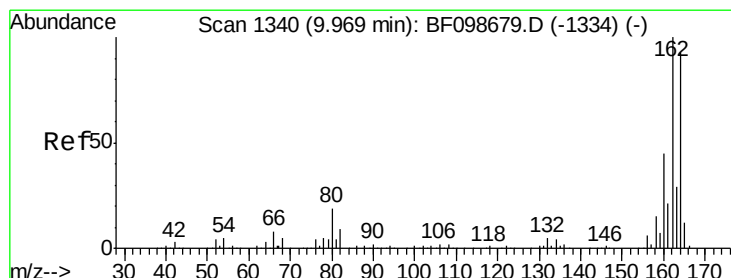
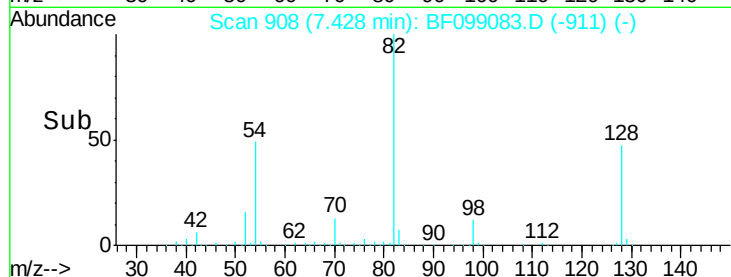
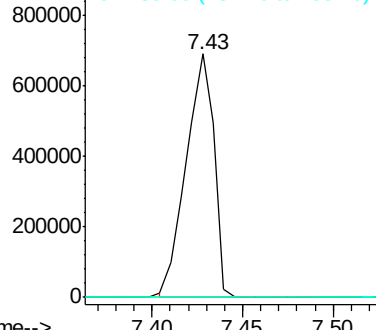
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 95.00 (94.70 to 95.70): BF0  
Ion 138.00 (137.70 to 138.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.90 min Scan# 1328

Delta R.T. -0.06 min

Lab File: BF099083.D

Acq: 4 Oct 2017 22:52

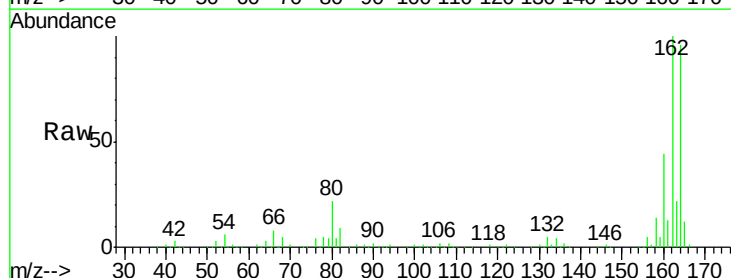
Tgt Ion:164 Resp: 248562

Ion Ratio Lower Upper

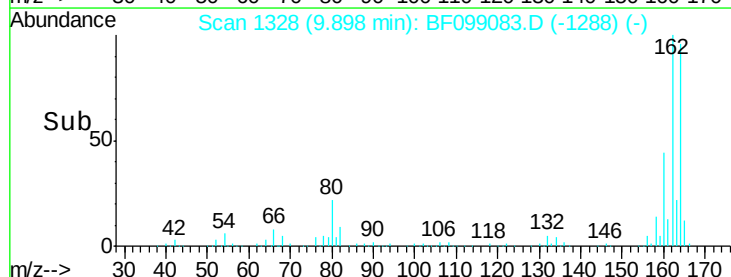
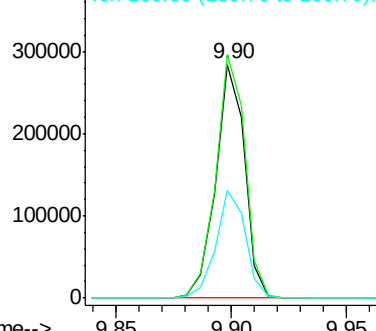
164 100

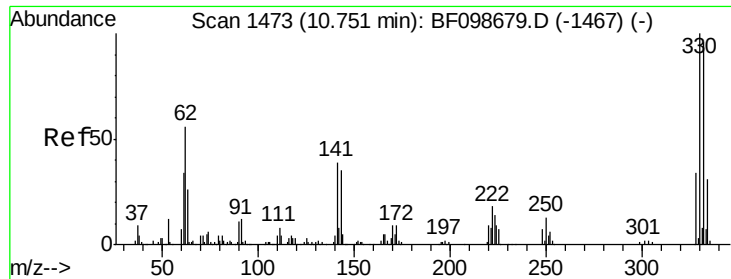
162 104.2 86.1 129.1

160 46.2 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

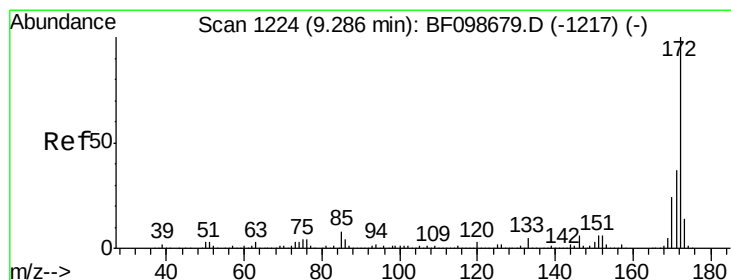
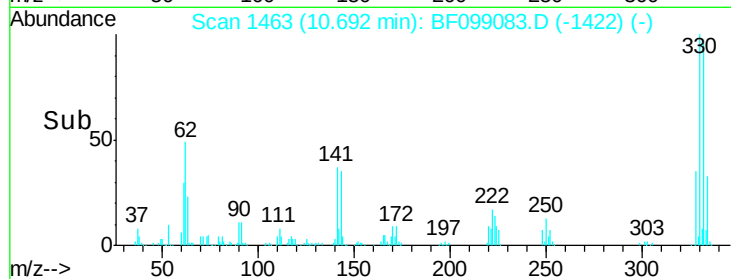
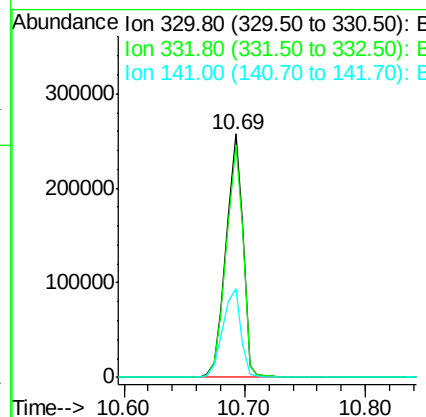
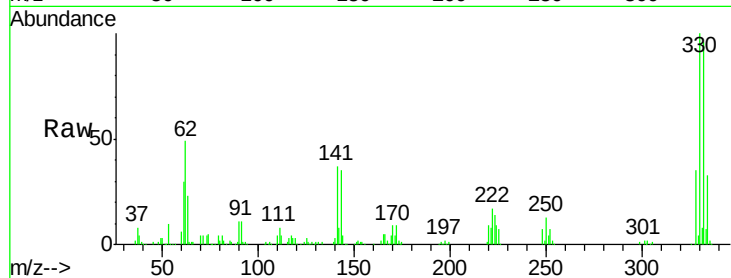




#41  
 2,4,6-Tribromophenol  
 Concen: 122.59 ng  
 RT: 10.69 min Scan# 1463  
 Delta R.T. -0.06 min  
 Lab File: BF099083.D  
 Acq: 4 Oct 2017 22:52

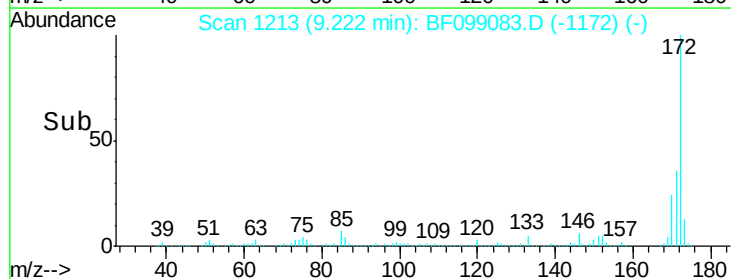
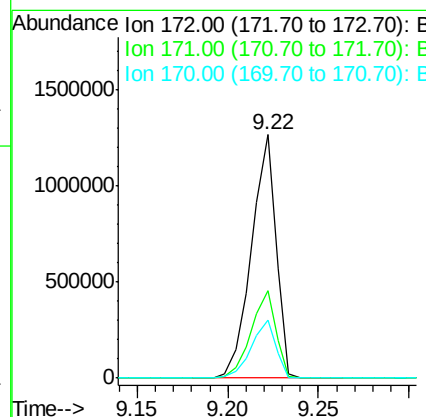
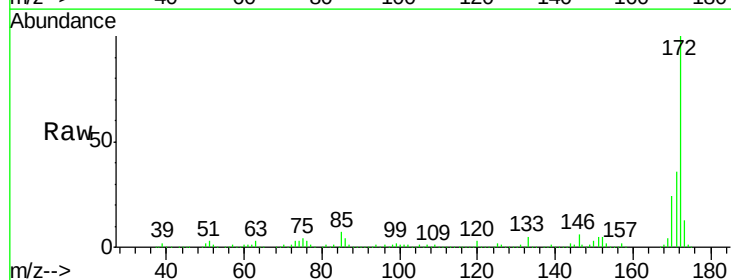
Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 249341  
 Ion Ratio Lower Upper  
 330 100  
 332 95.9 77.0 115.6  
 141 38.9 29.9 44.9

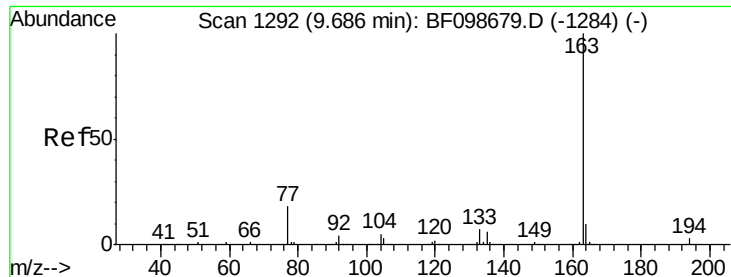


#44  
 2-Fluorobiphenyl  
 Concen: 80.34 ng  
 RT: 9.22 min Scan# 1213  
 Delta R.T. -0.06 min  
 Lab File: BF099083.D  
 Acq: 4 Oct 2017 22:52

Tgt Ion:172 Resp: 1196254  
 Ion Ratio Lower Upper  
 172 100  
 171 35.8 29.7 44.5  
 170 23.7 19.6 29.4



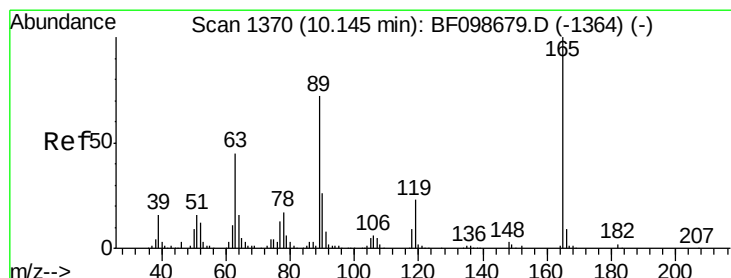
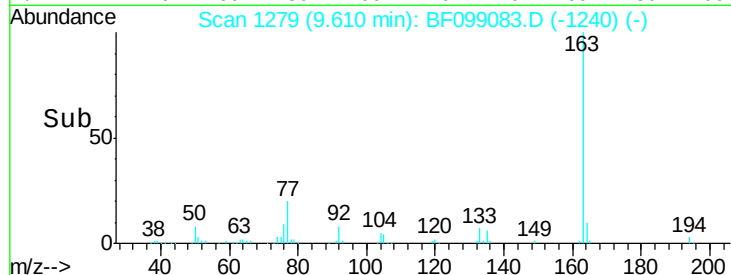
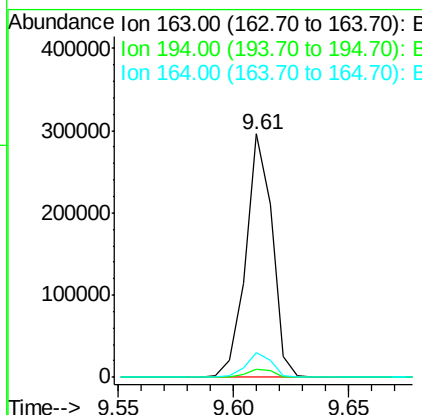
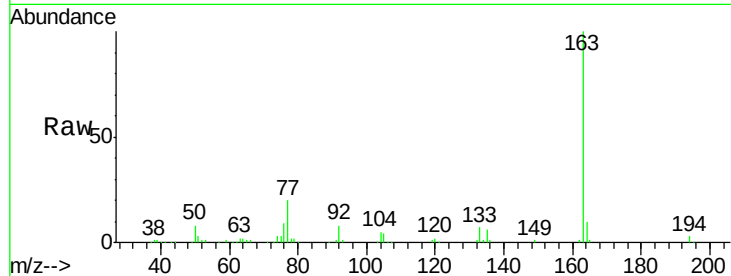




#49  
 Dimethylphthalate  
 Concen: 12.60 ng  
 RT: 9.61 min Scan# 1279  
 Delta R.T. -0.07 min  
 Lab File: BF099083.D  
 Acq: 4 Oct 2017 22:52

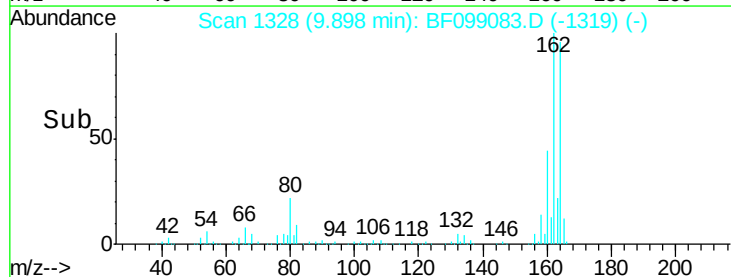
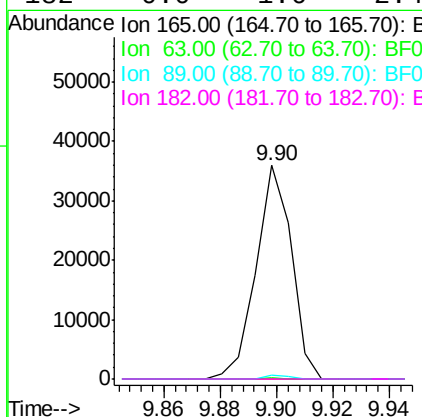
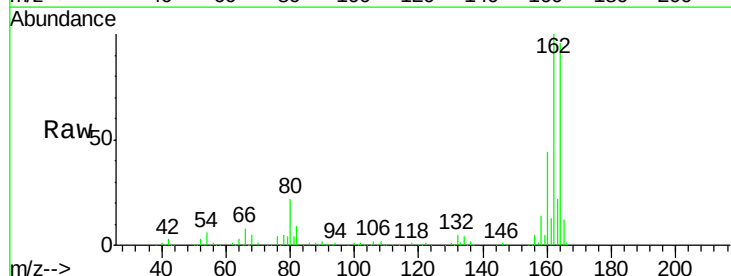
Instrument :  
 BNA\_F  
 ClientSampleId :

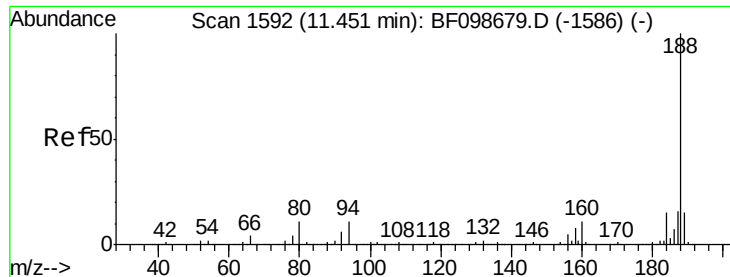
|             |       |          |
|-------------|-------|----------|
| Tot Ion:163 | Resp: | 236442   |
| Ion Ratio   | Lower | Upper    |
| 163         | 100   |          |
| 194         | 3.4   | 2.7 4.1  |
| 164         | 9.9   | 8.2 12.2 |



#56  
 2,4-Dinitrotoluene  
 Concen: 5.89 ng  
 RT: 9.90 min Scan# 1328  
 Delta R.T. -0.25 min  
 Lab File: BF099083.D  
 Acq: 4 Oct 2017 22:52

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:165 | Resp: | 31237      |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 0.9   | 36.4 54.6# |
| 89          | 1.8   | 57.8 86.6# |
| 182         | 0.0   | 1.6 2.4#   |

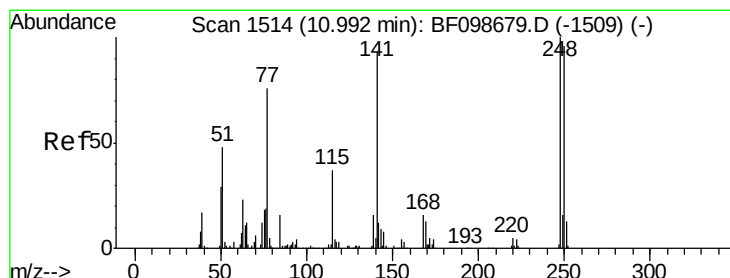
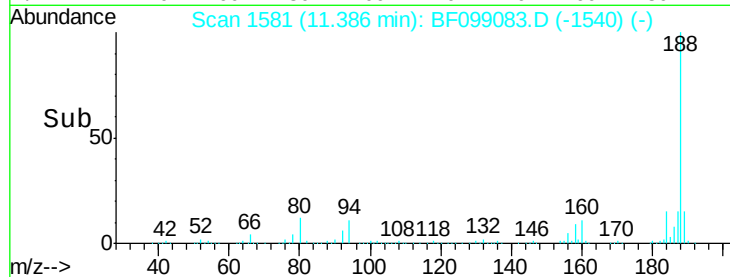
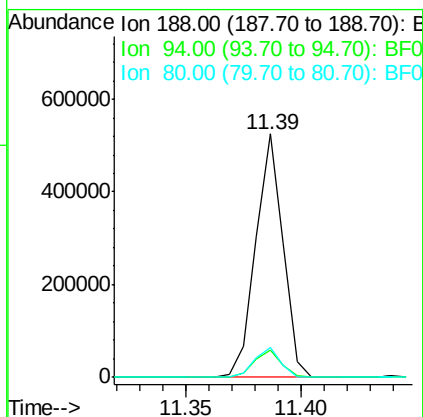
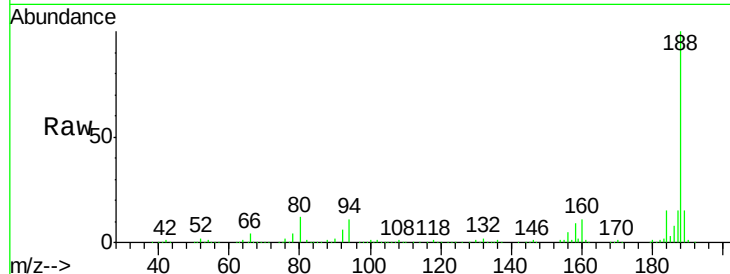




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.39 min Scan# 1581  
Delta R.T. -0.06 min  
Lab File: BF099083.D  
Acq: 4 Oct 2017 22:52

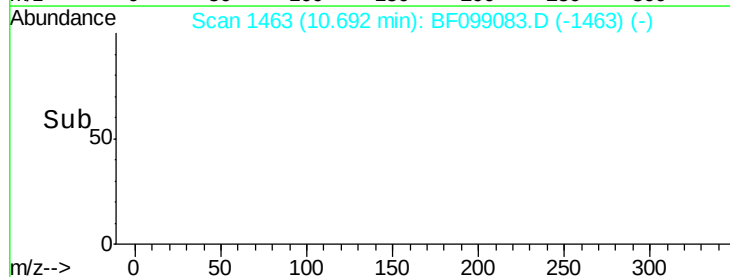
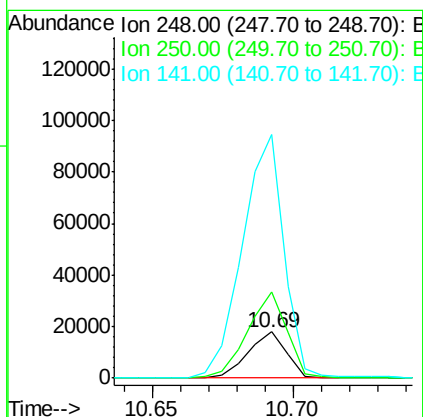
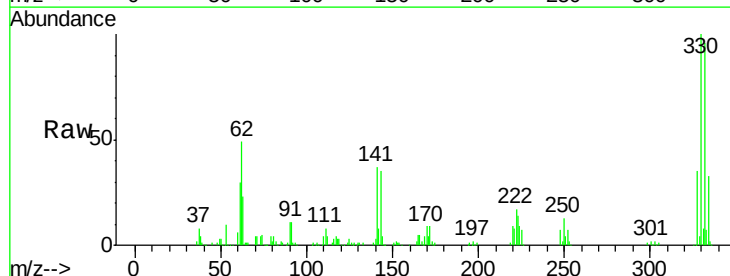
Instrument :  
BNA\_F  
ClientSampleId :

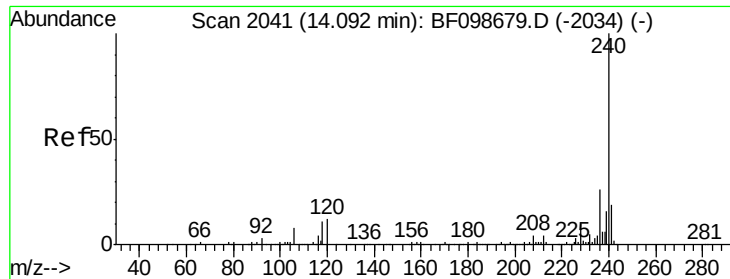
Tot Ion:188 Resp: 433965  
Ion Ratio Lower Upper  
188 100  
94 11.1 8.5 12.7  
80 12.1 9.2 13.8



#66  
4-Bromophenyl-phenylether  
Concen: 3.96 ng  
RT: 10.69 min Scan# 1463  
Delta R.T. -0.30 min  
Lab File: BF099083.D  
Acq: 4 Oct 2017 22:52

Tgt Ion:248 Resp: 16816  
Ion Ratio Lower Upper  
248 100  
250 185.0 76.9 115.3#  
141 526.5 74.4 111.6#





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.03 min Scan# 2030

Delta R.T. -0.06 min

Lab File: BF099083.D

Acq: 4 Oct 2017 22:52

Instrument :

BNA\_F

ClientSampleId :

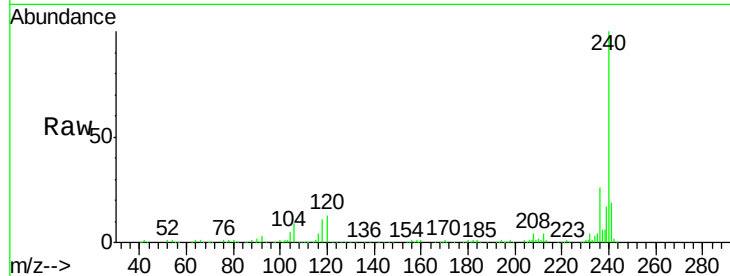
Tot Ion:240 Resp: 295477

Ion Ratio Lower Upper

240 100

120 13.1 9.5 14.3

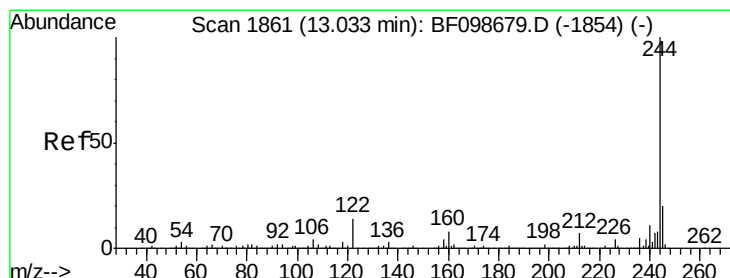
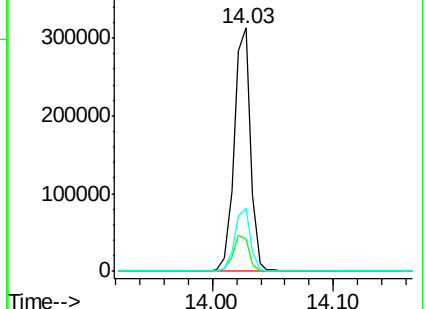
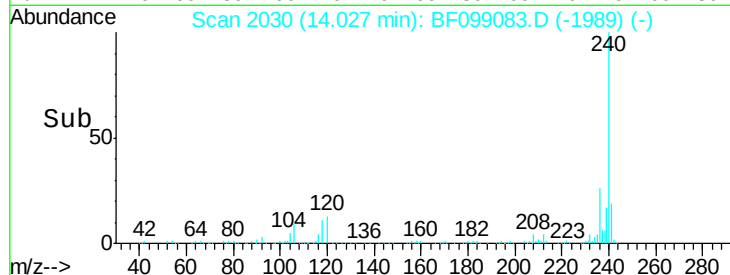
236 25.8 20.7 31.1



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: 75.46 ng

RT: 12.97 min Scan# 1851

Delta R.T. -0.06 min

Lab File: BF099083.D

Acq: 4 Oct 2017 22:52

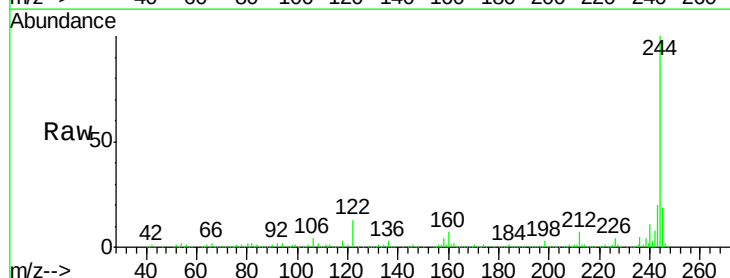
Tgt Ion:244 Resp: 980447

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

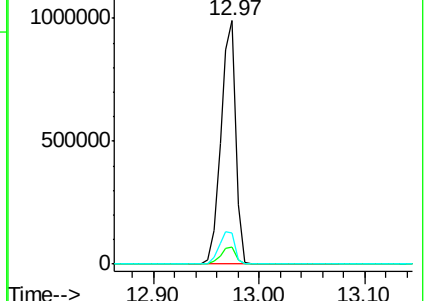
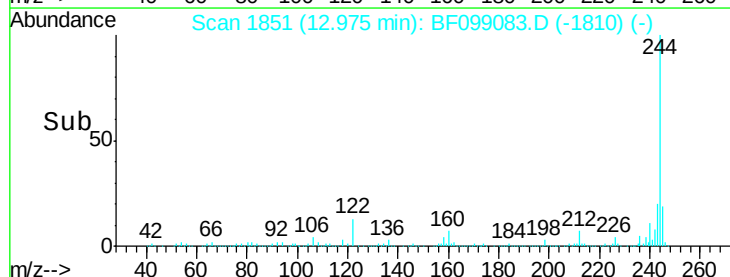
122 12.7 11.0 16.4

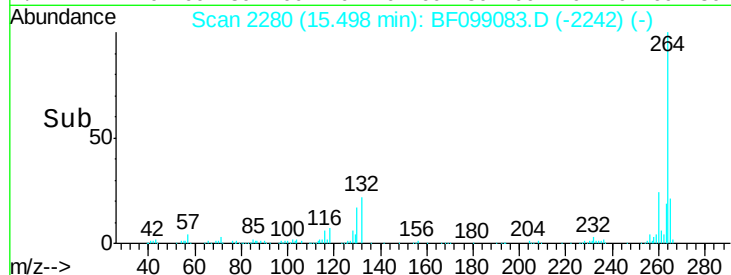
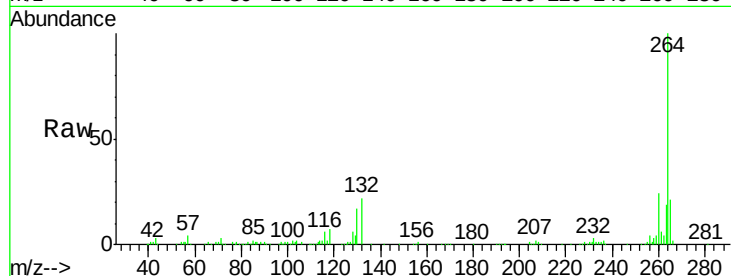
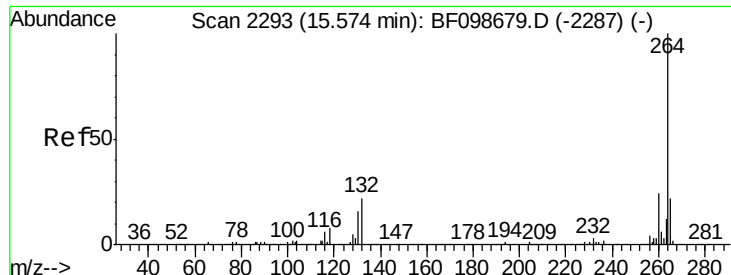


Abundance Ion 244.00 (243.70 to 244.70): E

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: 15.50 min Scan# 2280  
 Delta R.T. -0.08 min  
 Lab File: BF099083.D  
 Acq: 4 Oct 2017 22:52

Instrument :  
 BNA\_F  
 ClientSampleId :

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 199281 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.3  | 19.2  | 28.8   |
| 265       | 20.5  | 17.5  | 26.3   |

