

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102717\  
 Data File : BF099906.D  
 Acq On : 28 Oct 2017 5:38  
 Operator : SJ/JU  
 Sample : I6029-14  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 30 01:36:16 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 27 15:58:57 2017  
 Response via : Initial Calibration

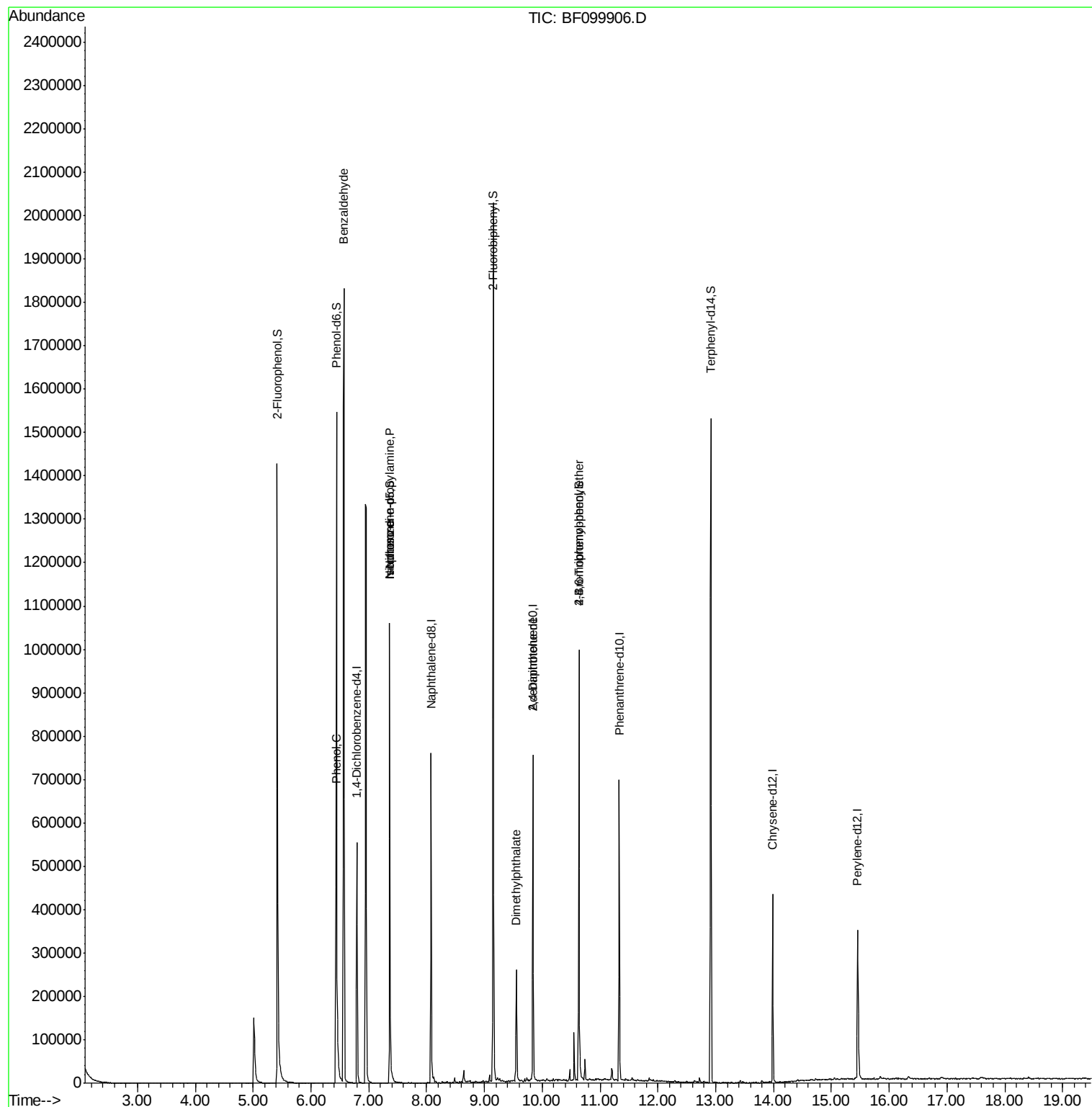
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.79  | 152  | 89340    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.07  | 136  | 364221   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.83  | 164  | 162700   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.33 | 188  | 260038   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 13.99 | 240  | 157731   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.46 | 264  | 170268   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.42  | 112  | 528016   | 92.79  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.44  | 99   | 630827   | 93.49  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.36  | 82   | 357738   | 63.23  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.63 | 330  | 121600   | 82.01  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.16  | 172  | 727670   | 69.00  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.92 | 244  | 475590   | 65.89  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 9) Benzaldehyde                | 6.57  | 77   | 9679     | 2.401  | ng    | 85       |
| 10) Phenol                     | 6.45  | 94   | 29917    | 4.038  | ng    | 92       |
| 19) n-Nitroso-di-n-propylamine | 7.36  | 70   | 44008    | 11.130 | ng    | # 72     |
| 25) Isophorone                 | 7.36  | 82   | 357738   | 34.848 | ng    | # 64     |
| 49) Dimethylphthalate          | 9.55  | 163  | 109674   | 8.512  | ng    | 100      |
| 56) 2,4-Dinitrotoluene         | 9.83  | 165  | 20892    | 6.405  | ng    | # 22     |
| 66) 4-Bromophenyl-phenylether  | 10.63 | 248  | 7798     | 2.849  | ng    | # 1      |

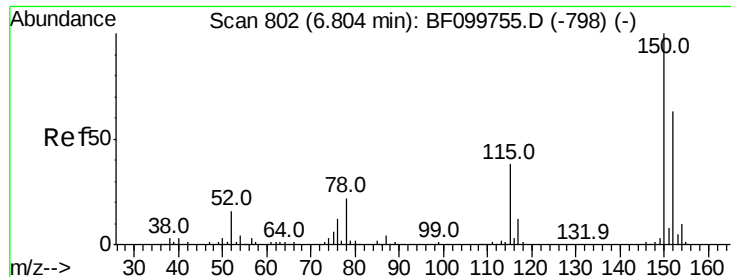
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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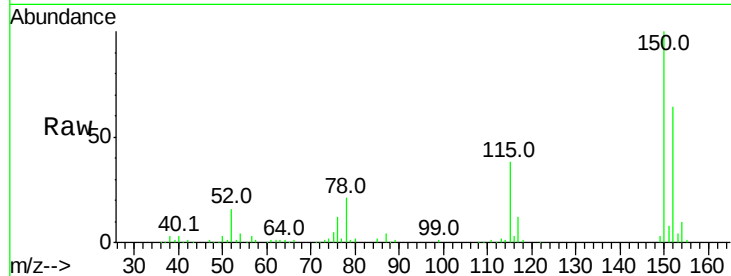


#1

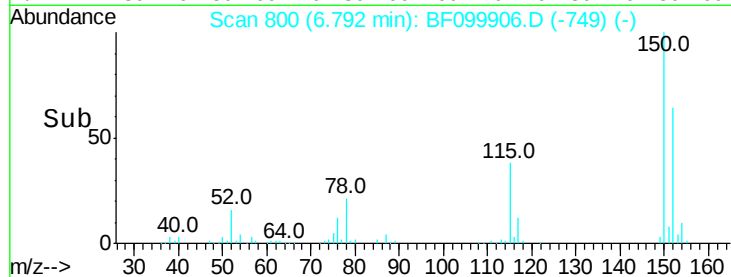
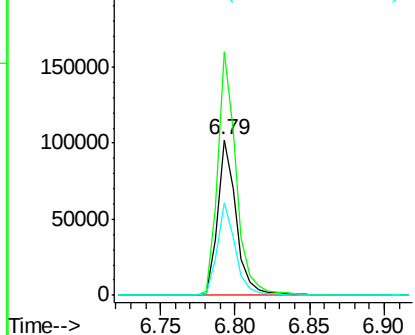
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.79 min Scan# 800  
Delta R.T. 0.00 min  
Lab File: BF099906.D  
Acq: 28 Oct 2017 5:38

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 89340  
Ion Ratio Lower Upper  
152 100  
150 156.5 124.6 186.8  
115 59.6 50.1 75.1



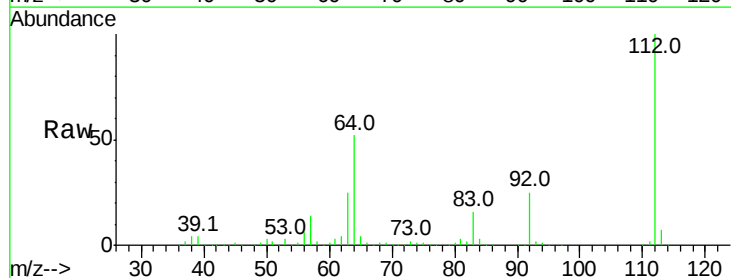
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



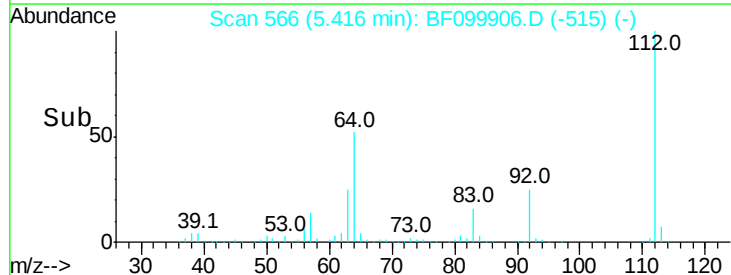
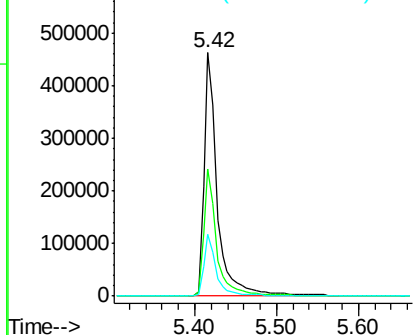
#5

2-Fluorophenol  
Concen: 92.788 ng  
RT: 5.42 min Scan# 566  
Delta R.T. 0.00 min  
Lab File: BF099906.D  
Acq: 28 Oct 2017 5:38

Tgt Ion:112 Resp: 528016  
Ion Ratio Lower Upper  
112 100  
64 52.4 47.9 71.9  
63 25.3 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: 93.492 ng

RT: 6.44 min Scan# 740

Delta R.T. 0.00 min

Lab File: BF099906.D

Acq: 28 Oct 2017 5:38

Instrument :

BNA\_F

ClientSampleId :

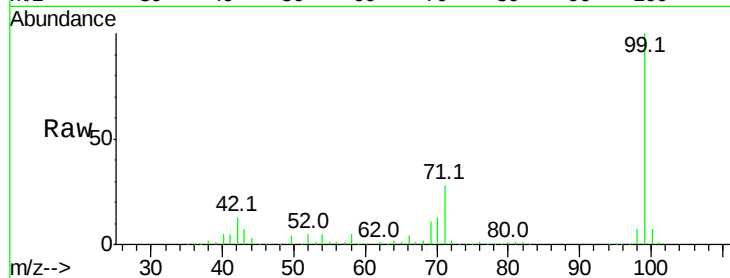
Tot Ion: 99 Resp: 630827

Ion Ratio Lower Upper

99 100

42 13.2 14.5 21.7#

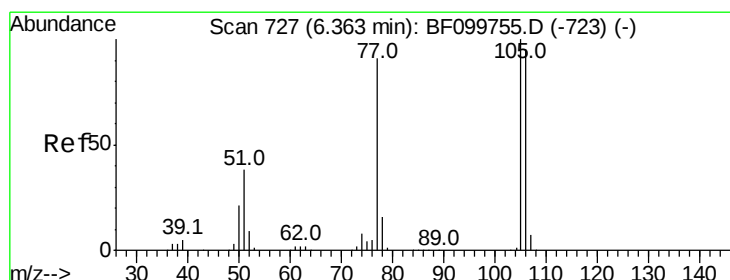
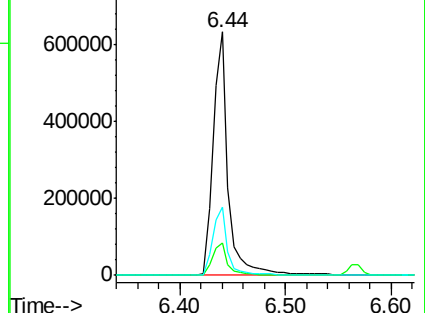
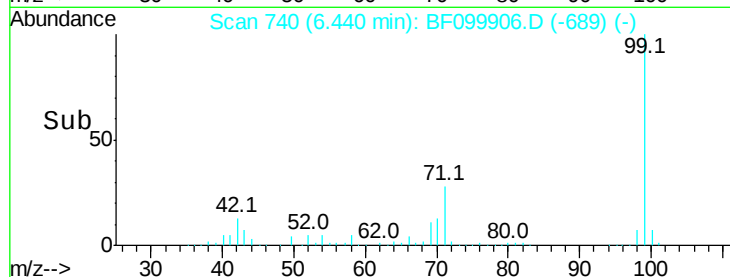
71 28.0 25.4 38.0



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: 2.401 ng

RT: 6.57 min Scan# 762

Delta R.T. 0.21 min

Lab File: BF099906.D

Acq: 28 Oct 2017 5:38

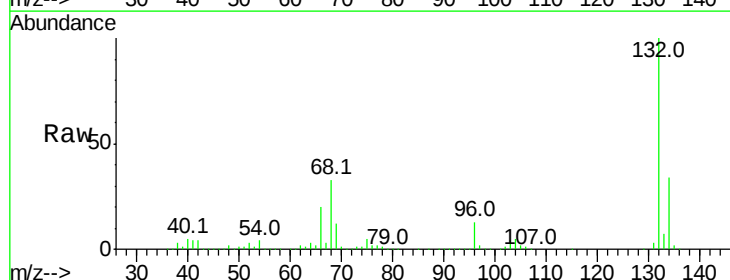
Tgt Ion: 77 Resp: 9679

Ion Ratio Lower Upper

77 100

105 86.6 81.1 121.1

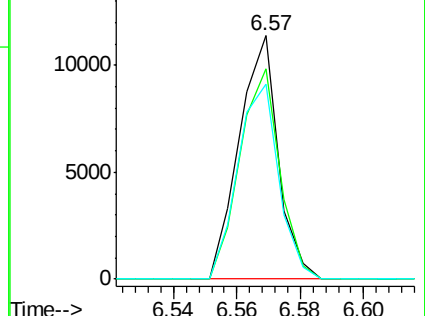
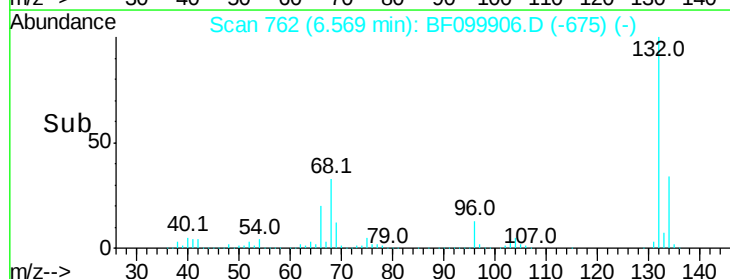
106 79.9 74.5 114.5

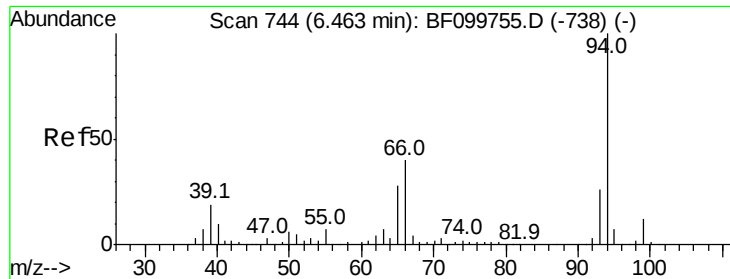


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#10

Phenol

Concen: 4.038 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.01 min

Lab File: BF099906.D

Acq: 28 Oct 2017 5:38

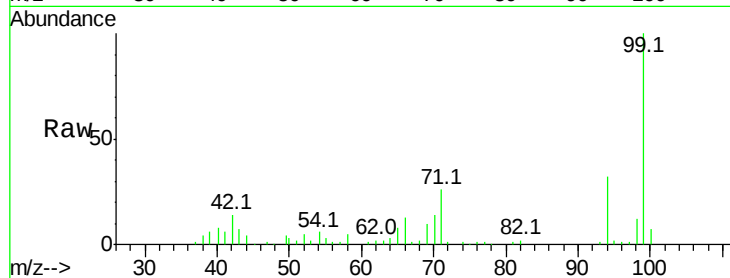
Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 94 Resp: 29917

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 24.7  | 7.9   | 47.9  |
| 66  | 41.7  | 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

150000

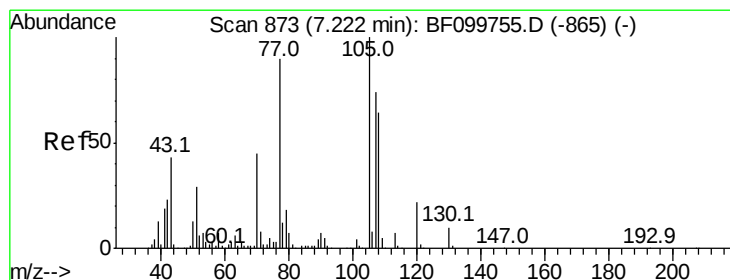
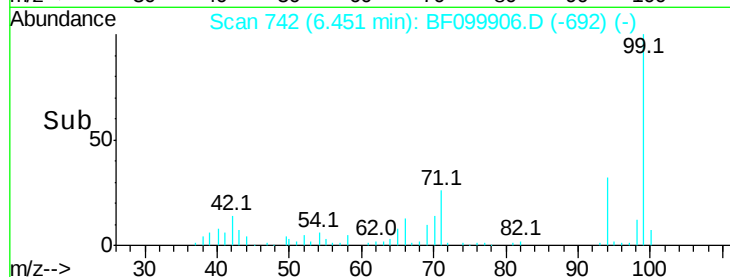
100000

50000

0

6.40 6.45 6.50 6.55

Time-->



#19

n-Nitroso-di-n-propylamine

Concen: 11.130 ng

RT: 7.36 min Scan# 897

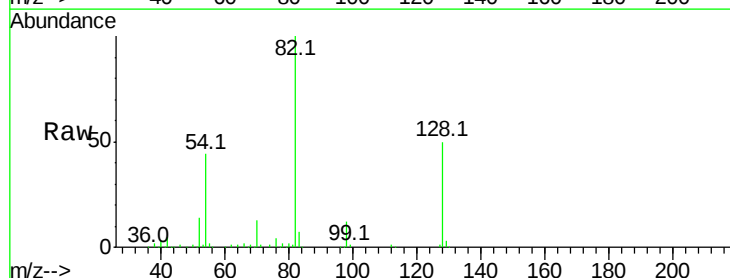
Delta R.T. 0.15 min

Lab File: BF099906.D

Acq: 28 Oct 2017 5:38

Tgt Ion: 70 Resp: 44008

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 40.9  | 47.5  | 71.3# |
| 101 | 0.0   | 7.4   | 11.2# |
| 130 | 2.3   | 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

60000

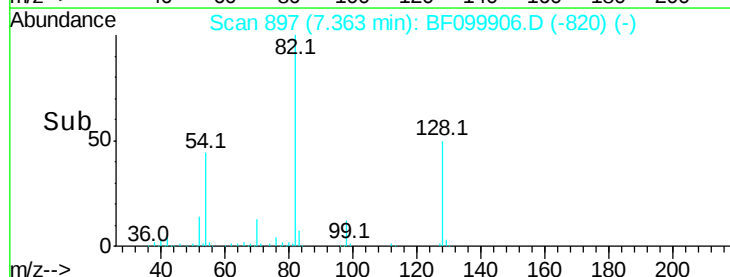
40000

20000

0

7.30 7.35 7.40 7.45

Time-->

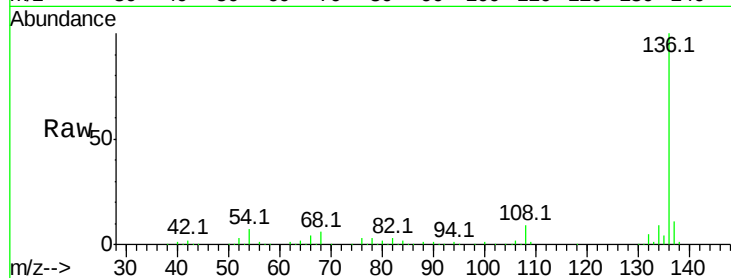




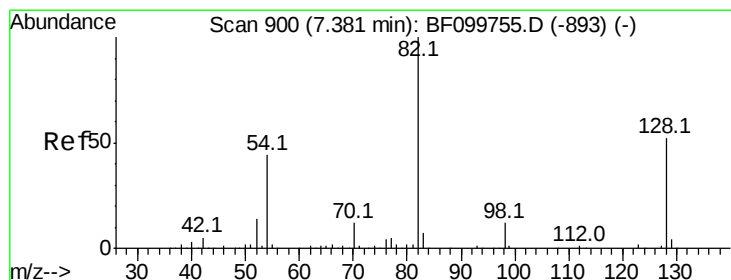
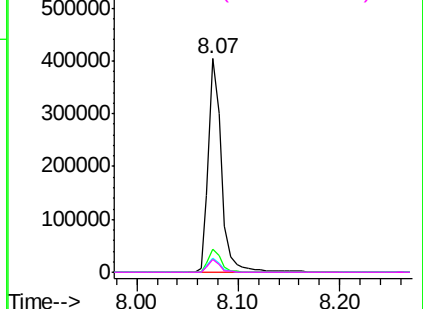
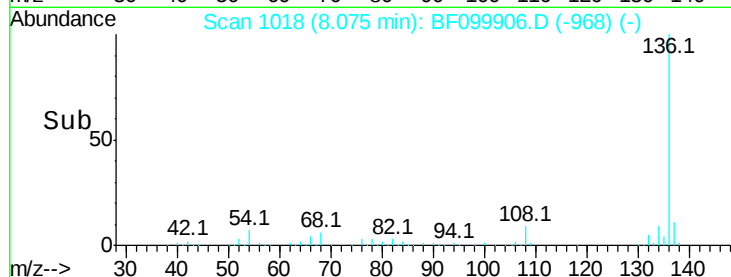
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.07 min Scan# 1018  
Delta R.T. -0.01 min  
Lab File: BF099906.D  
Acq: 28 Oct 2017 5:38

Instrument :  
BNA\_F  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 364221 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.0  | 8.9   | 13.3   |
| 54       | 6.8   | 6.6   | 9.8    |
| 68       | 6.2   | 5.0   | 7.4    |

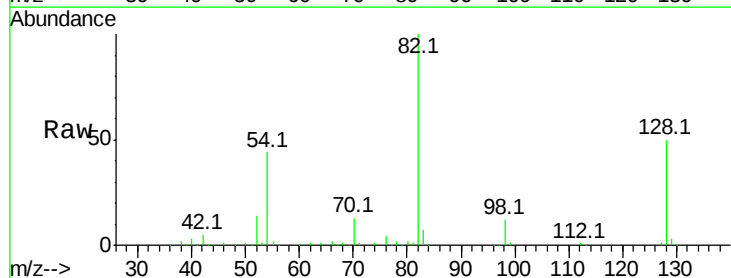


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

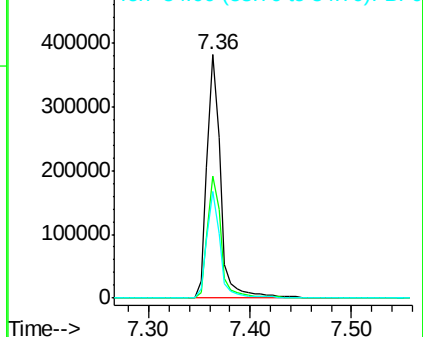
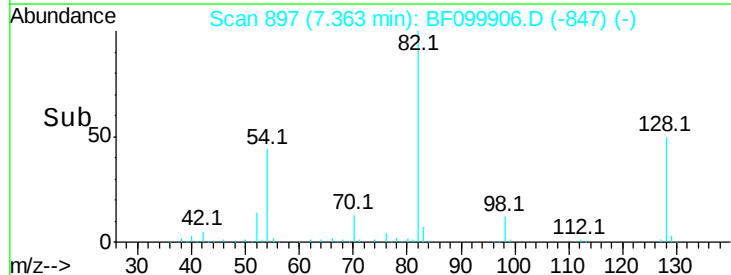


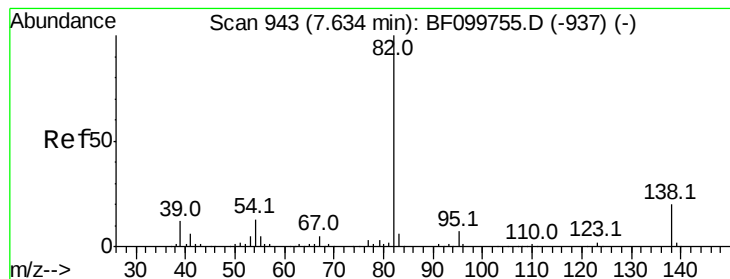
#23  
Nitrobenzene-d5  
Concen: 63.235 ng  
RT: 7.36 min Scan# 897  
Delta R.T. -0.01 min  
Lab File: BF099906.D  
Acq: 28 Oct 2017 5:38

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 357738 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 50.3  | 36.1  | 54.1   |
| 54       | 43.6  | 41.4  | 62.2   |



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 34.848 ng

RT: 7.36 min Scan# 897

Delta R.T. -0.26 min

Lab File: BF099906.D

Acq: 28 Oct 2017 5:38

Instrument :

BNA\_F

ClientSampleId :

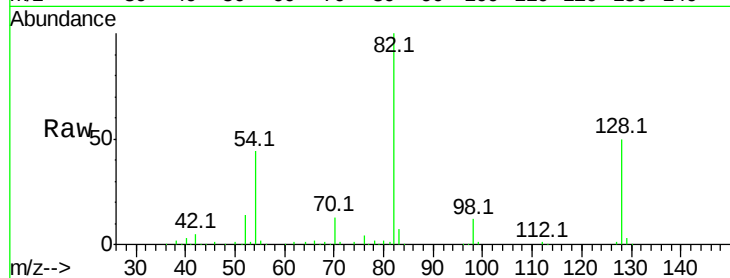
Tot Ion: 82 Resp: 357738

Ion Ratio Lower Upper

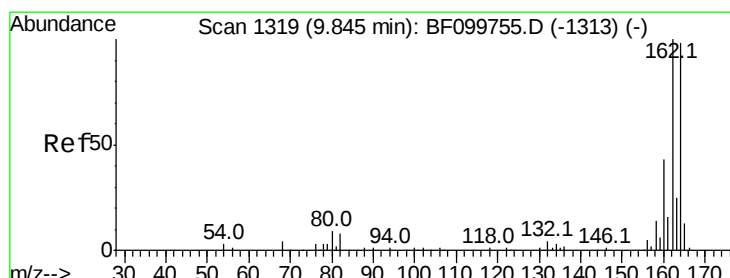
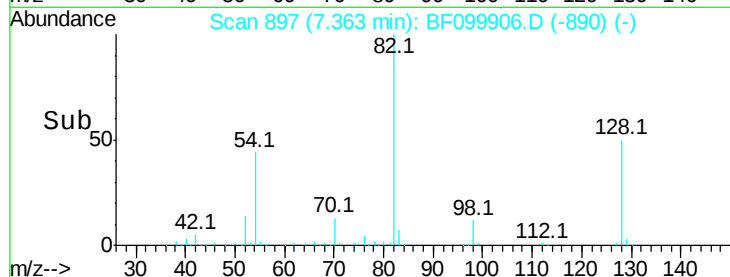
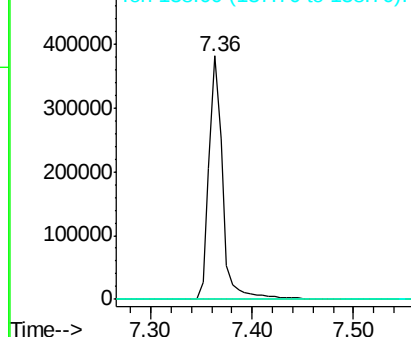
82 100

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: 20.000 ng

RT: 9.83 min Scan# 1317

Delta R.T. -0.01 min

Lab File: BF099906.D

Acq: 28 Oct 2017 5:38

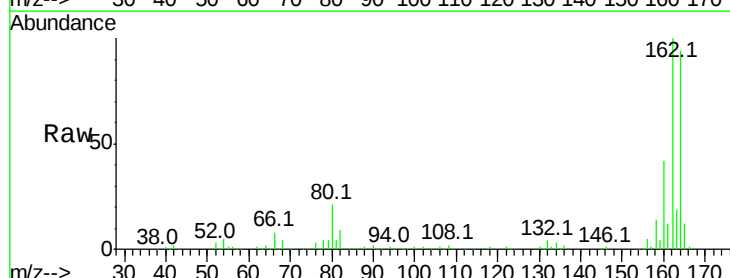
Tgt Ion:164 Resp: 162700

Ion Ratio Lower Upper

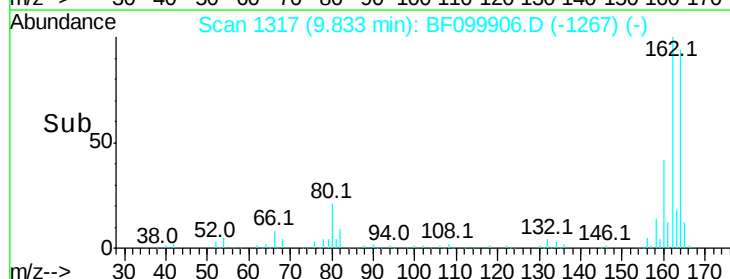
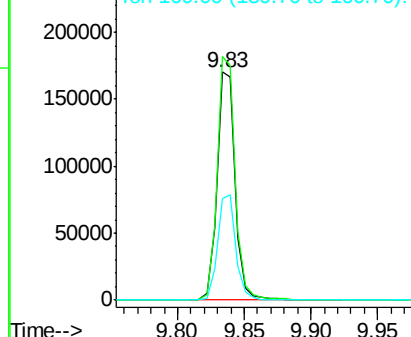
164 100

162 106.9 86.1 129.1

160 44.4 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: 82.012 ng

RT: 10.63 min Scan# 1453

Delta R.T. -0.01 min

Lab File: BF099906.D

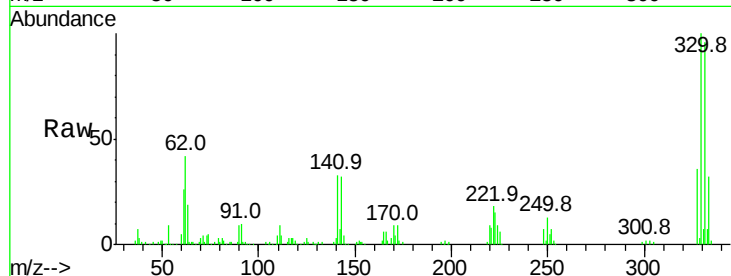
Acq: 28 Oct 2017 5:38

Instrument :

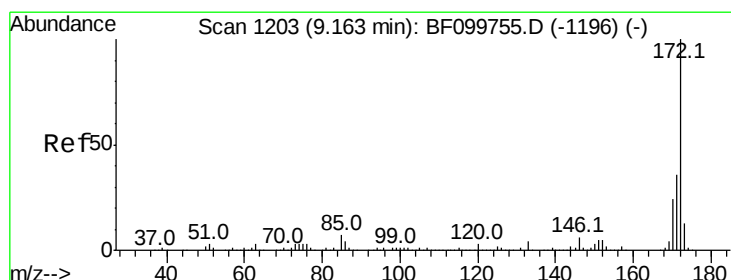
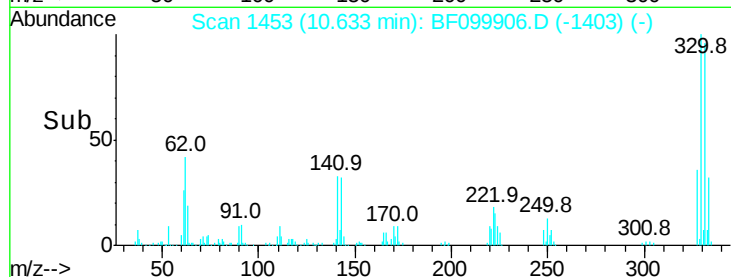
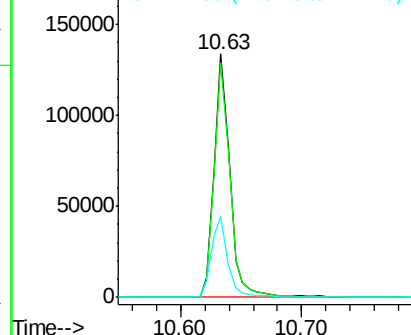
BNA\_F

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 330   | Resp: | 121600 |
| Ion      | Ratio | Lower | Upper  |
| 330      | 100   |       |        |
| 332      | 96.9  | 77.0  | 115.6  |
| 141      | 35.1  | 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: 69.003 ng

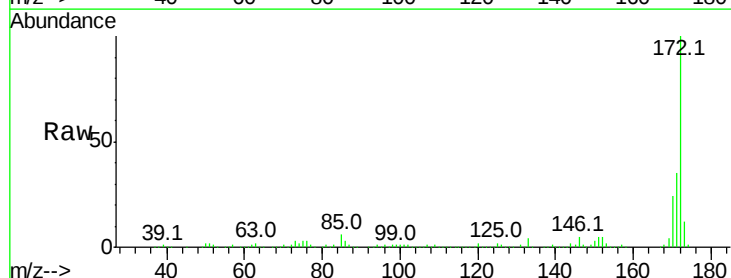
RT: 9.16 min Scan# 1202

Delta R.T. 0.00 min

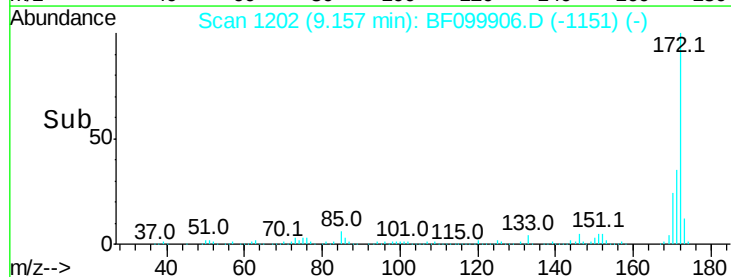
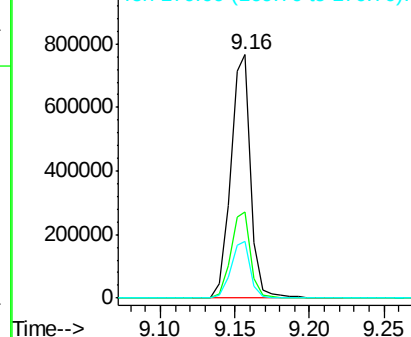
Lab File: BF099906.D

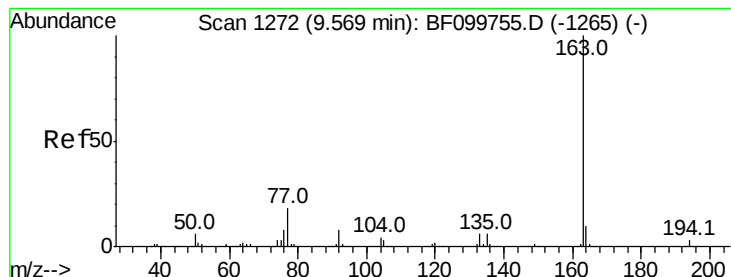
Acq: 28 Oct 2017 5:38

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 172   | Resp: | 727670 |
| Ion      | Ratio | Lower | Upper  |
| 172      | 100   |       |        |
| 171      | 35.3  | 29.7  | 44.5   |
| 170      | 23.5  | 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





#49

Dimethylphthalate

Concen: 8.512 ng

RT: 9.55 min Scan# 1269

Delta R.T. -0.01 min

Lab File: BF099906.D

Acq: 28 Oct 2017 5:38

Instrument :

BNA\_F

ClientSampleId :

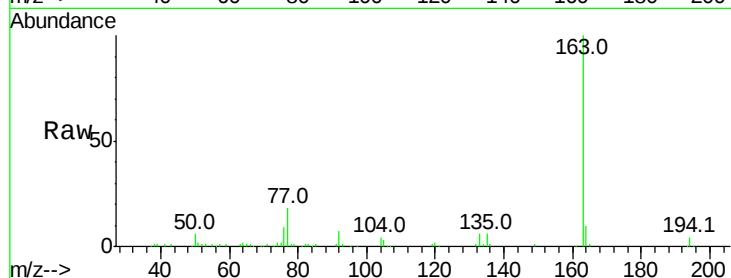
Tot Ion:163 Resp: 109674

Ion Ratio Lower Upper

163 100

194 3.6 2.7 4.1

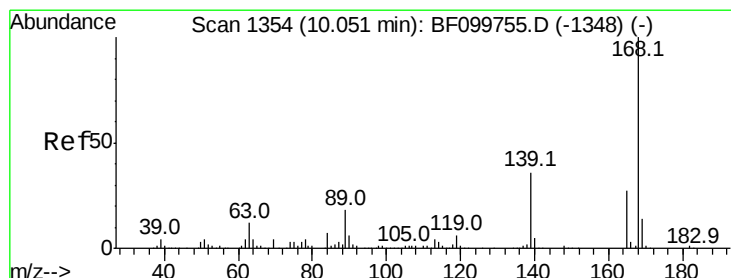
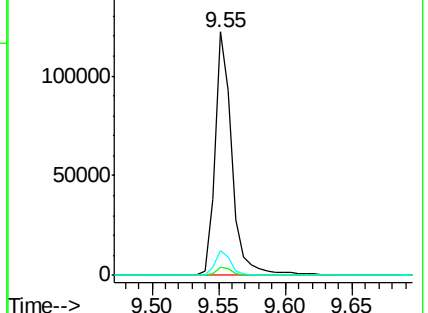
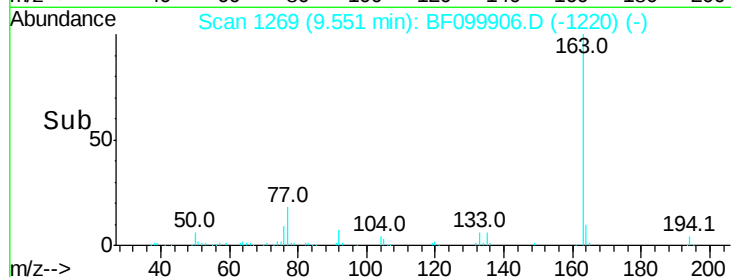
164 10.0 8.2 12.2



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#56

2,4-Dinitrotoluene

Concen: 6.405 ng

RT: 9.83 min Scan# 1317

Delta R.T. -0.22 min

Lab File: BF099906.D

Acq: 28 Oct 2017 5:38

Tgt Ion:165 Resp: 20892

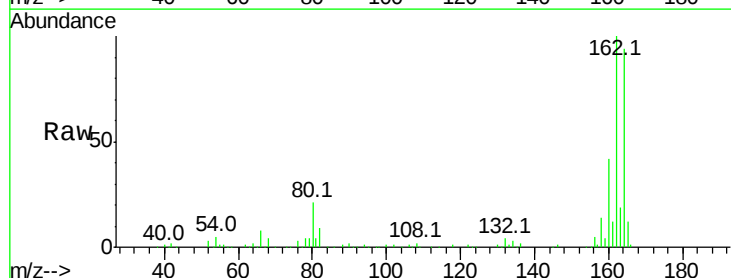
Ion Ratio Lower Upper

165 100

63 1.4 36.4 54.6#

89 0.0 57.8 86.6#

182 0.0 1.6 2.4#

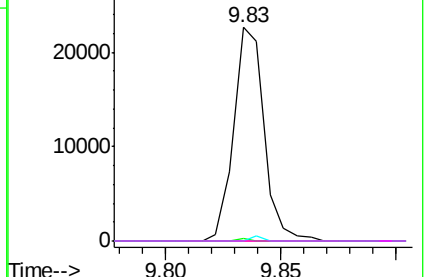
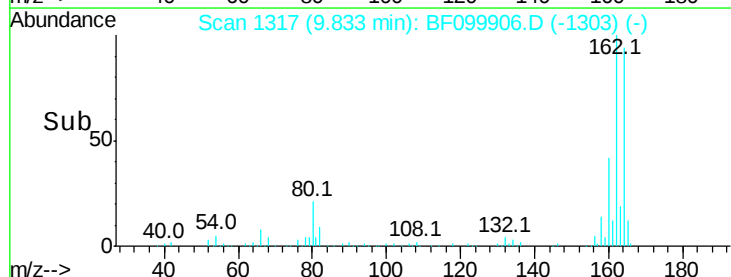


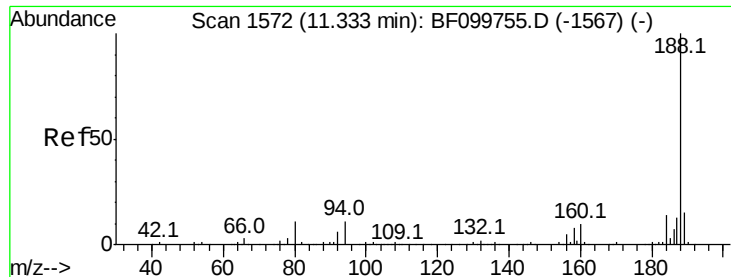
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

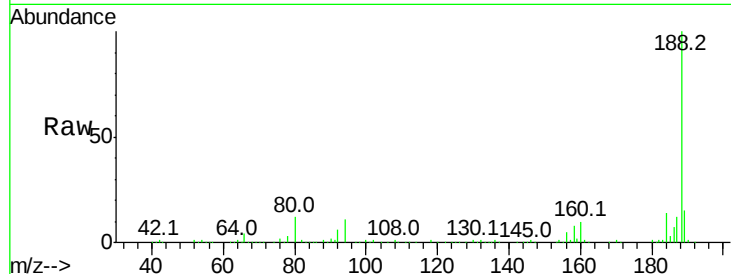




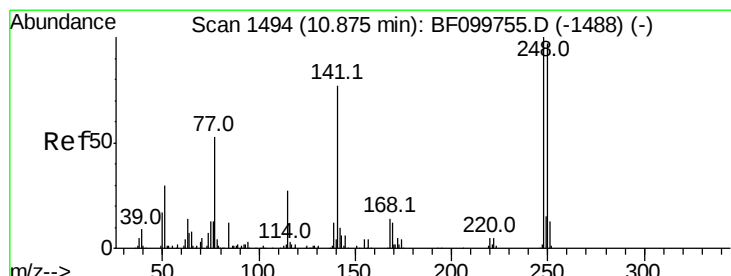
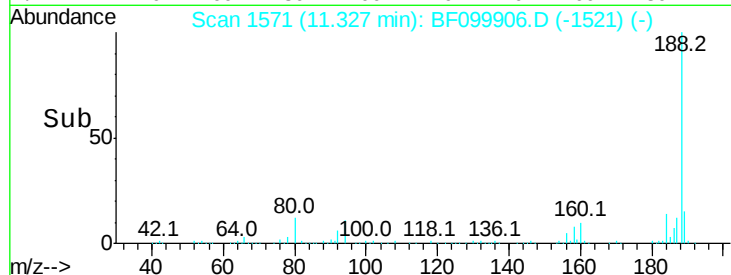
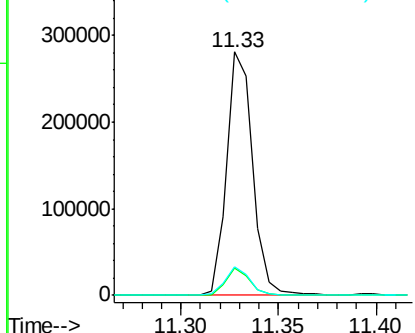
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.33 min Scan# 1571  
Delta R.T. -0.01 min  
Lab File: BF099906.D  
Acq: 28 Oct 2017 5:38

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:188 Resp: 260038  
Ion Ratio Lower Upper  
188 100  
94 11.2 8.5 12.7  
80 11.5 9.2 13.8

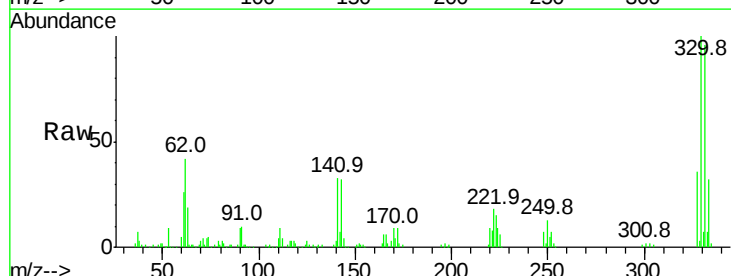


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

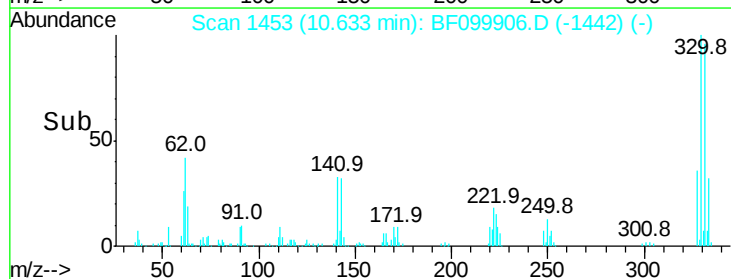
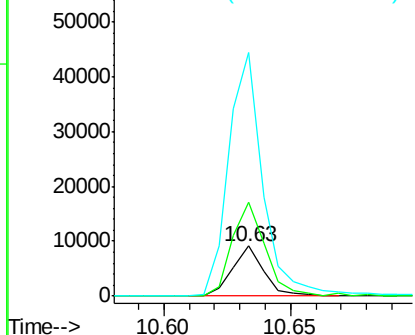


#66  
4-Bromophenyl-phenylether  
Concen: 2.849 ng  
RT: 10.63 min Scan# 1453  
Delta R.T. -0.24 min  
Lab File: BF099906.D  
Acq: 28 Oct 2017 5:38

Tgt Ion:248 Resp: 7798  
Ion Ratio Lower Upper  
248 100  
250 189.1 76.9 115.3#  
141 488.0 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

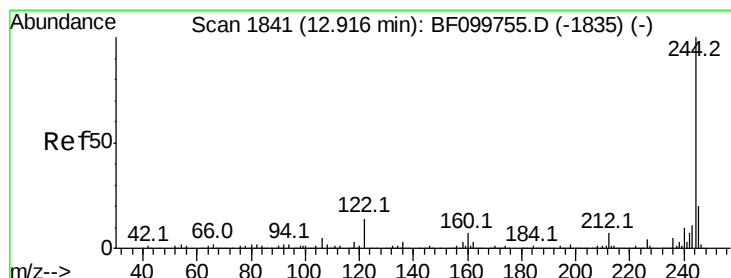
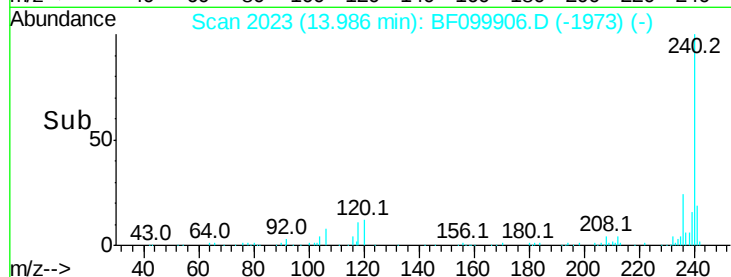
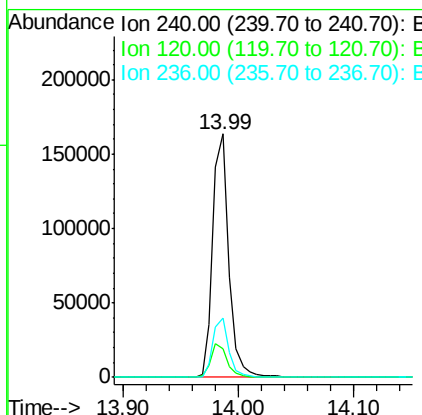
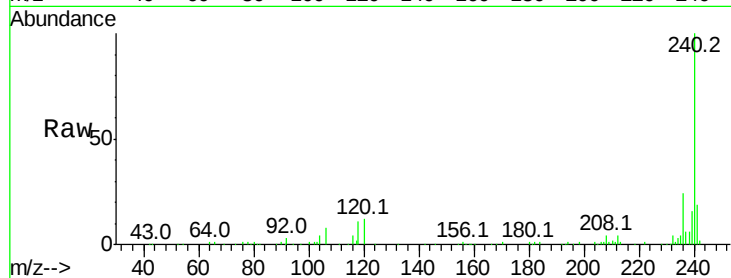




#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.99 min Scan# 2023  
 Delta R.T. -0.01 min  
 Lab File: BF099906.D  
 Acq: 28 Oct 2017 5:38

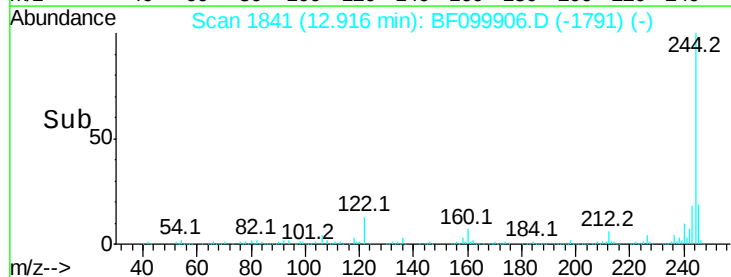
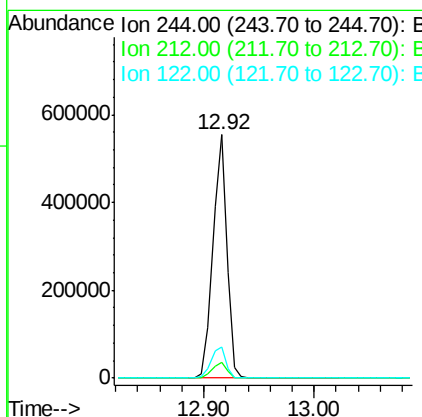
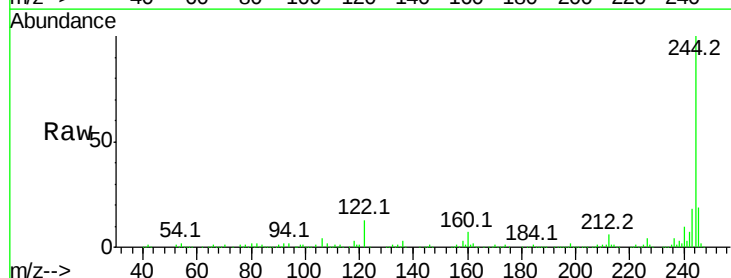
Instrument :  
 BNA\_F  
 ClientSampleId :

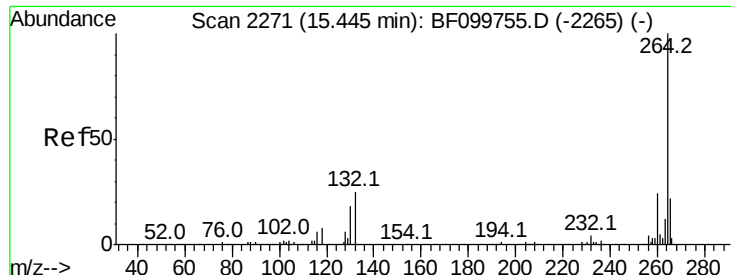
Tot Ion:240 Resp: 157731  
 Ion Ratio Lower Upper  
 240 100  
 120 11.6 9.5 14.3  
 236 24.3 20.7 31.1



#78  
 Terphenyl-d14  
 Concen: 65.893 ng  
 RT: 12.92 min Scan# 1841  
 Delta R.T. -0.01 min  
 Lab File: BF099906.D  
 Acq: 28 Oct 2017 5:38

Tgt Ion:244 Resp: 475590  
 Ion Ratio Lower Upper  
 244 100  
 212 6.5 5.4 8.0  
 122 12.6 11.0 16.4

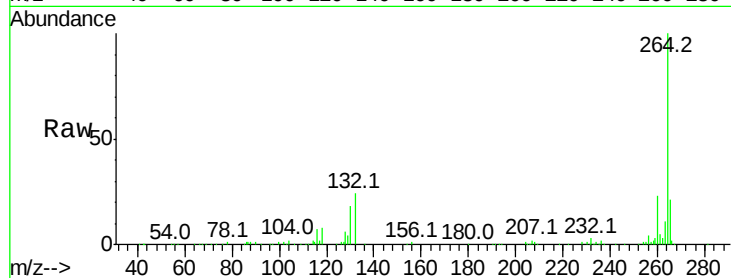




#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.46 min Scan# 2273  
 Delta R.T. 0.00 min  
 Lab File: BF099906.D  
 Acq: 28 Oct 2017 5:38

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.4  | 19.2  | 28.8  |
| 265     | 21.4  | 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

