

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101517\  
 Data File : BF099519.D  
 Acq On : 15 Oct 2017 17:49  
 Operator : SJ/JU  
 Sample : I5752-09  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 16 01:07:19 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 11 16:25:21 2017  
 Response via : Initial Calibration

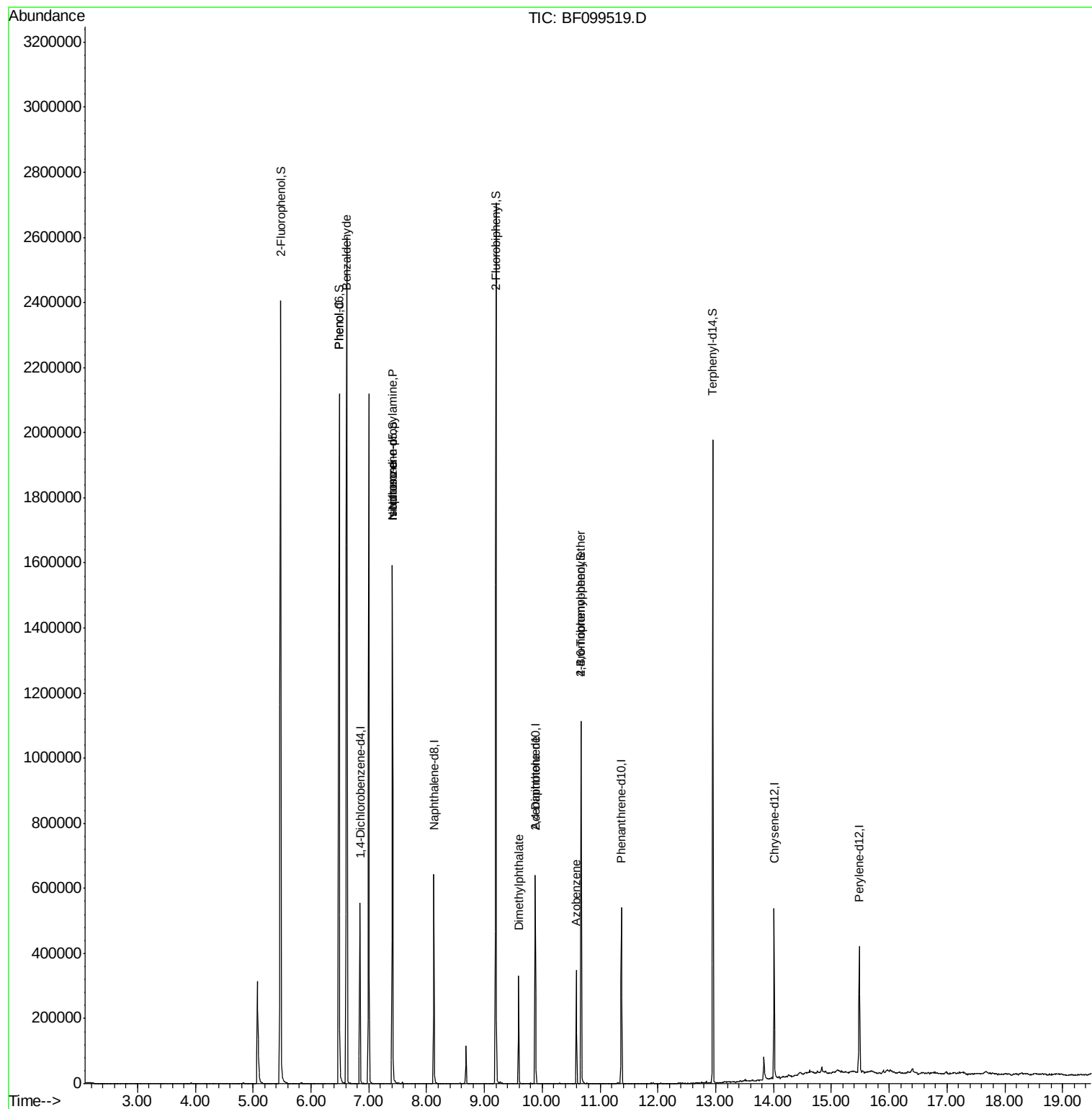
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.85  | 152  | 85908    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.12  | 136  | 320208   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.88  | 164  | 120433   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.37 | 188  | 176969   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.01 | 240  | 173196   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.49 | 264  | 171555   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.47  | 112  | 791367   | 146.64 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.49  | 99   | 912050   | 137.00 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.41  | 82   | 528140   | 105.77 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.67 | 330  | 134348   | 136.33 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.20  | 172  | 866536   | 120.12 | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.95 | 244  | 594152   | 78.02  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 9) Benzaldehyde                | 6.62  | 77   | 14955    | 3.87   | ng    | 87       |
| 10) Phenol                     | 6.49  | 94   | 51506    | 6.92   | ng    | 96       |
| 19) n-Nitroso-di-n-propylamine | 7.41  | 70   | 67110    | 15.79  | ng    | # 73     |
| 25) Isophorone                 | 7.41  | 82   | 528134   | 51.16  | ng    | # 64     |
| 49) Dimethylphthalate          | 9.59  | 163  | 124050   | 13.65  | ng    | 98       |
| 56) 2,4-Dinitrotoluene         | 9.88  | 165  | 14958    | 5.82   | ng    | # 21     |
| 62) Azobenzene                 | 10.59 | 77   | 52360    | 6.41   | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.67 | 248  | 9063     | 5.23   | ng    | # 1      |

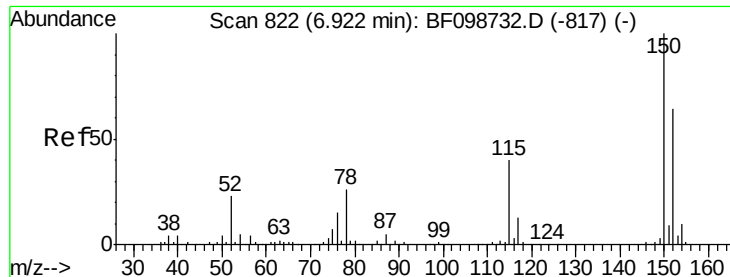
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 15 Sample Multiplier: 1

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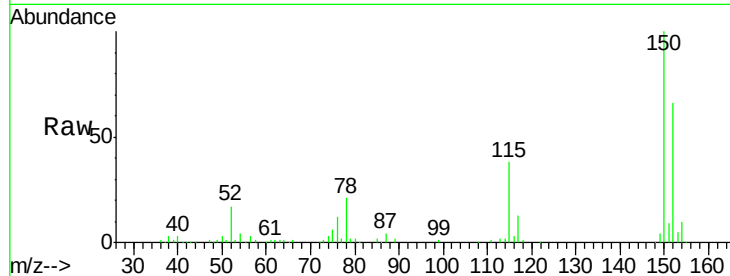


#1

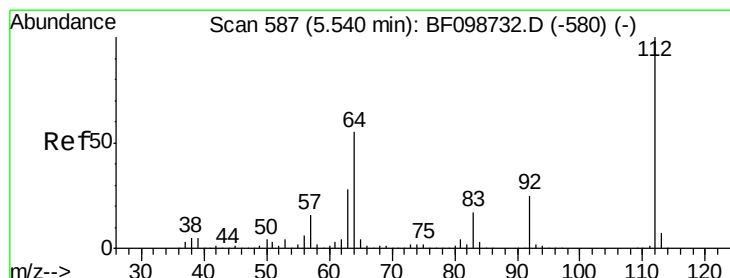
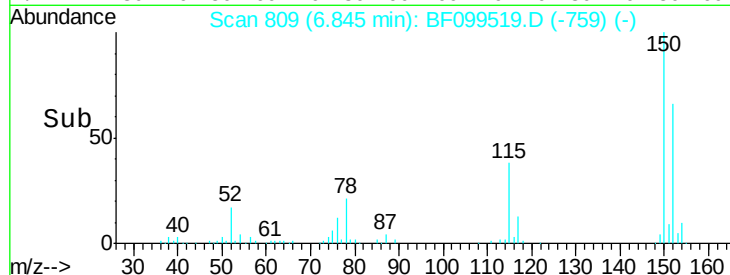
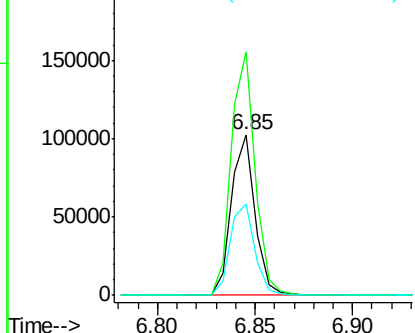
1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.85 min Scan# 809  
 Delta R.T. -0.01 min  
 Lab File: BF099519.D  
 Acq: 15 Oct 2017 17:49

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:152 Resp: 85908  
 Ion Ratio Lower Upper  
 152 100  
 150 151.2 124.6 186.8  
 115 56.9 50.1 75.1



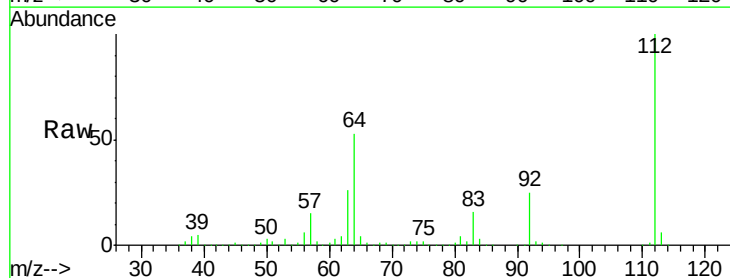
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



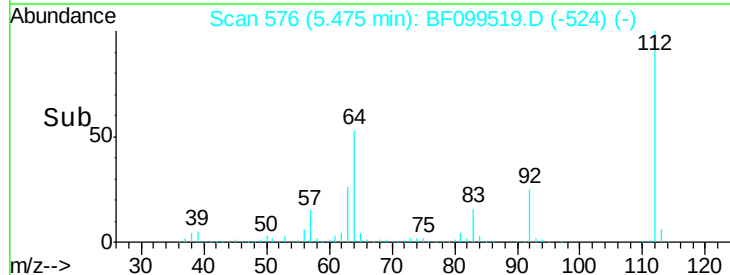
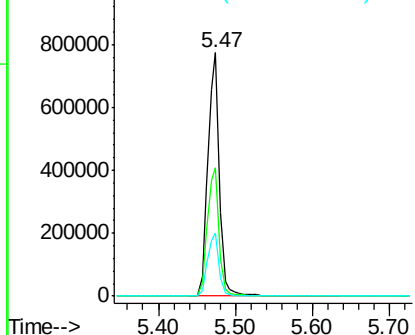
#5

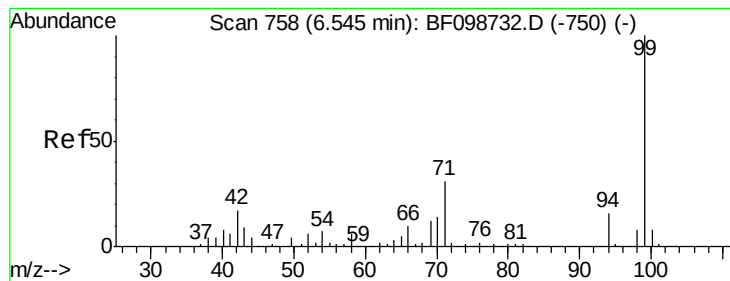
2-Fluorophenol  
 Concen: 146.64 ng  
 RT: 5.47 min Scan# 576  
 Delta R.T. 0.01 min  
 Lab File: BF099519.D  
 Acq: 15 Oct 2017 17:49

Tgt Ion:112 Resp: 791367  
 Ion Ratio Lower Upper  
 112 100  
 64 52.7 47.9 71.9  
 63 25.7 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: 137.00 ng

RT: 6.49 min Scan# 748

Delta R.T. 0.00 min

Lab File: BF099519.D

Acq: 15 Oct 2017 17:49

Instrument :

BNA\_F

ClientSampleId :

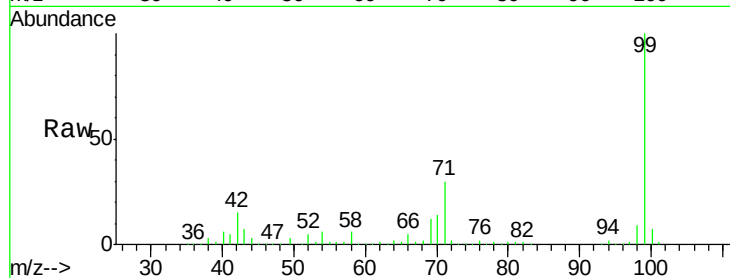
Tot Ion: 99 Resp: 912050

Ion Ratio Lower Upper

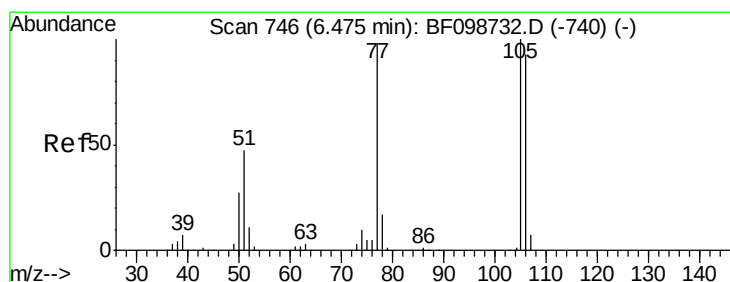
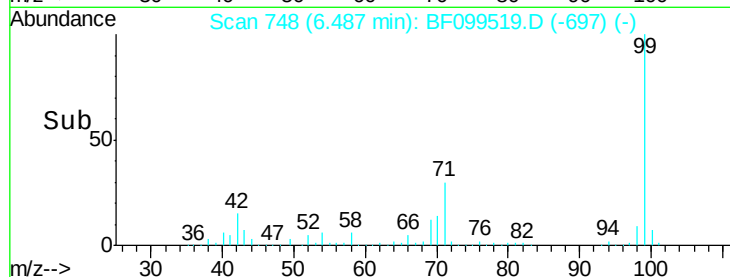
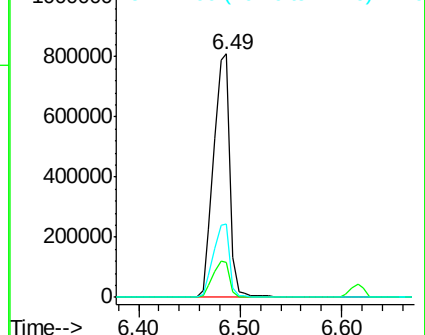
99 100

42 14.6 14.5 21.7

71 30.1 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: 3.87 ng

RT: 6.62 min Scan# 770

Delta R.T. 0.21 min

Lab File: BF099519.D

Acq: 15 Oct 2017 17:49

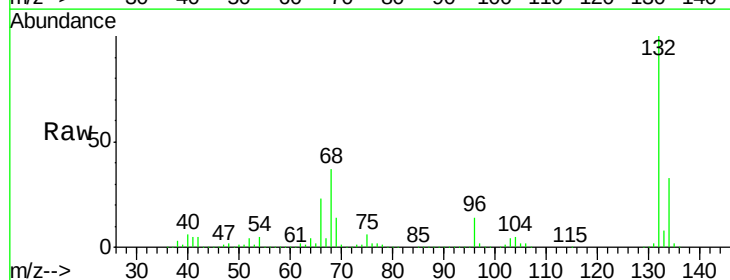
Tgt Ion: 77 Resp: 14955

Ion Ratio Lower Upper

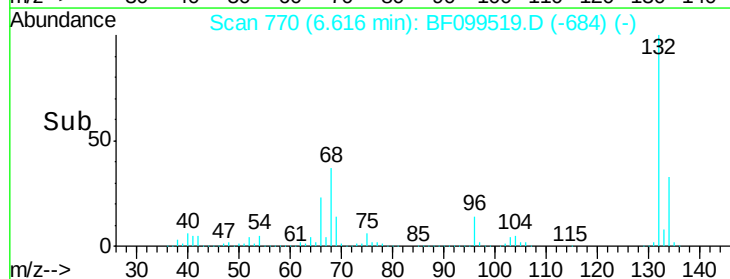
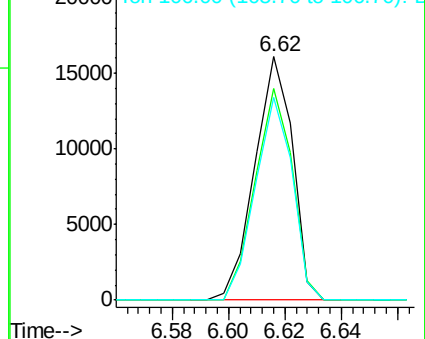
77 100

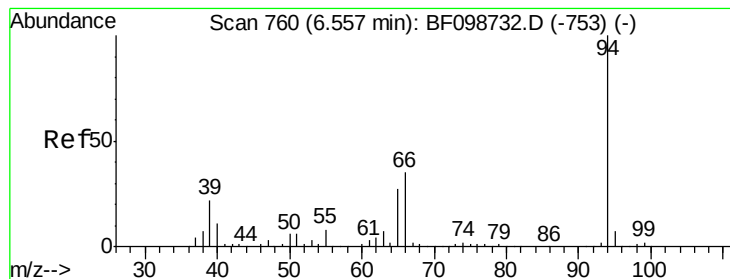
105 86.9 81.1 121.1

106 83.2 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: 6.92 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF099519.D

Acq: 15 Oct 2017 17:49

Instrument :

BNA\_F

ClientSampleId :

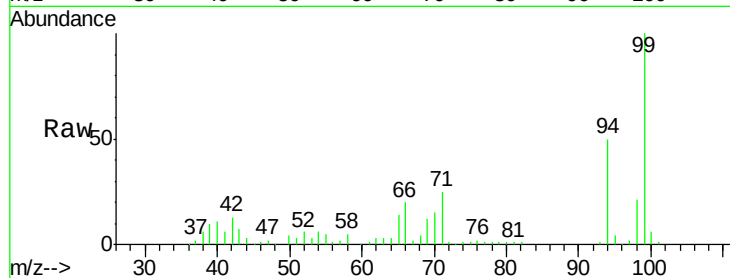
Tot Ion: 94 Resp: 51506

Ion Ratio Lower Upper

94 100

65 27.7 7.9 47.9

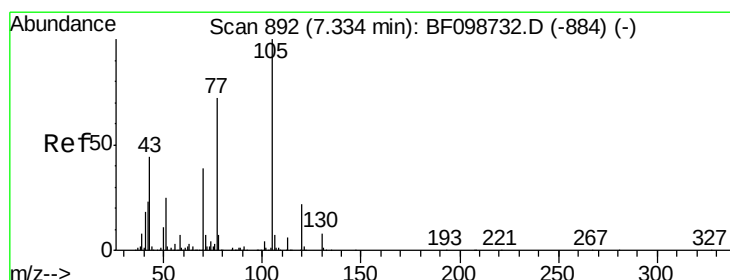
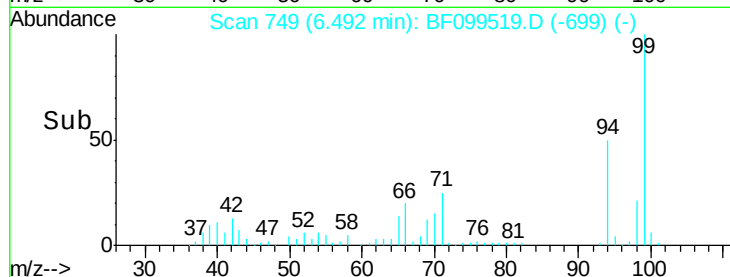
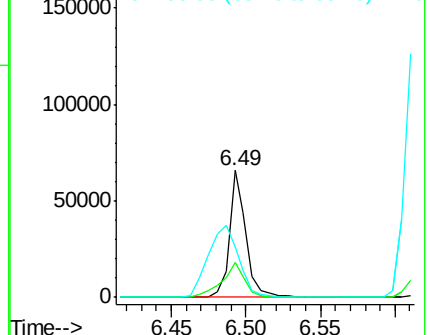
66 39.7 16.2 56.2



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



#19

n-Nitroso-di-n-propylamine

Concen: 15.79 ng

RT: 7.41 min Scan# 905

Delta R.T. 0.14 min

Lab File: BF099519.D

Acq: 15 Oct 2017 17:49

Tgt Ion: 70 Resp: 67110

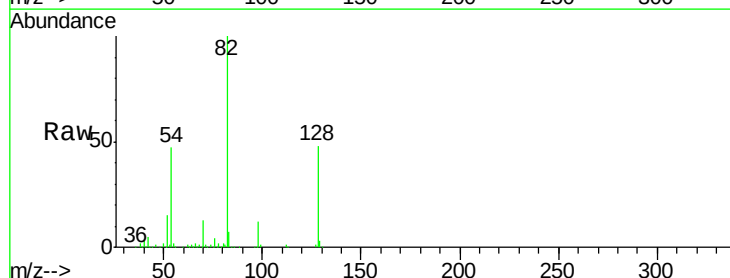
Ion Ratio Lower Upper

70 100

42 42.7 47.5 71.3#

101 0.0 7.4 11.2#

130 2.5 16.6 25.0#

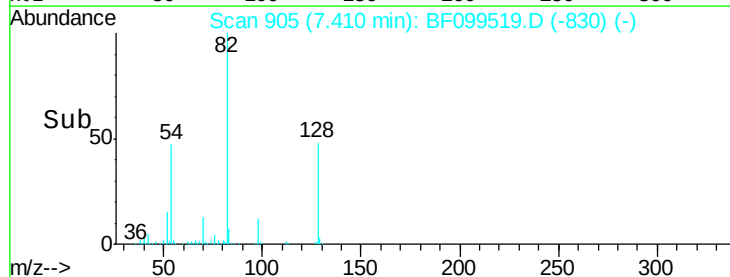
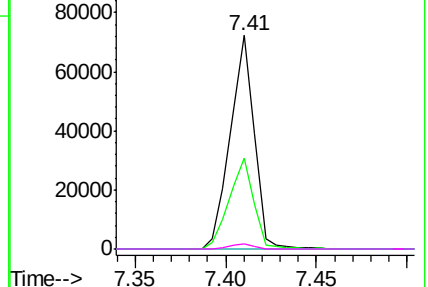


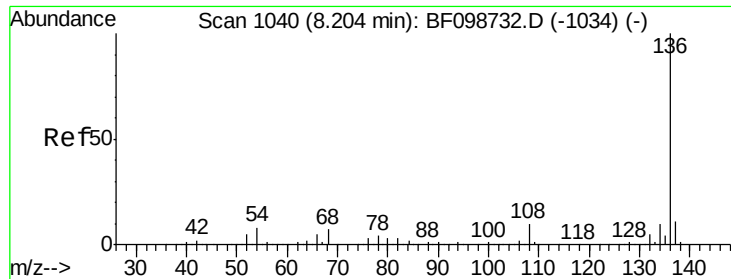
Abundance Ion 70.00 (69.70 to 70.70): BF0

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

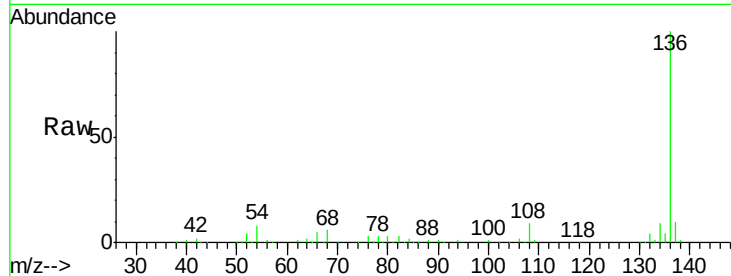




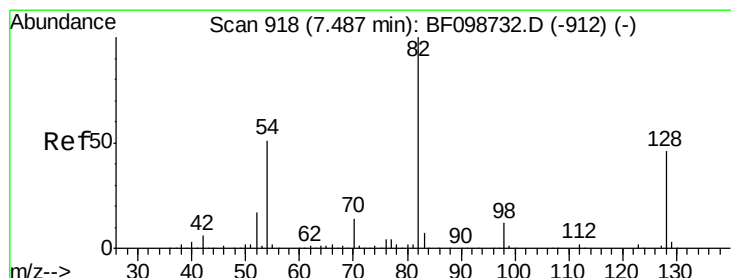
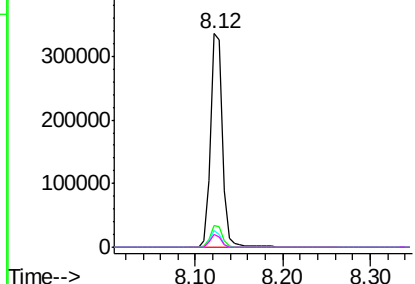
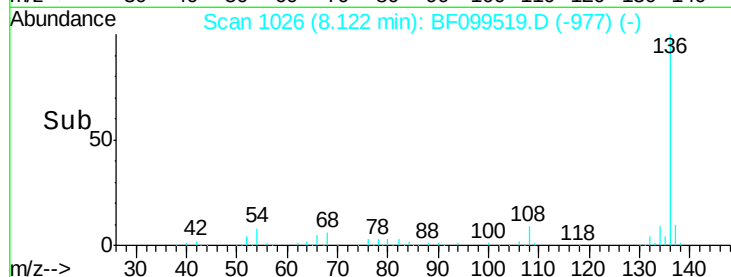
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.12 min Scan# 1026  
Delta R.T. -0.01 min  
Lab File: BF099519.D  
Acq: 15 Oct 2017 17:49

Instrument :  
BNA\_F  
ClientSampled :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 320208   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.3  | 8.9 13.3 |
| 54          | 7.7   | 6.6 9.8  |
| 68          | 6.1   | 5.0 7.4  |

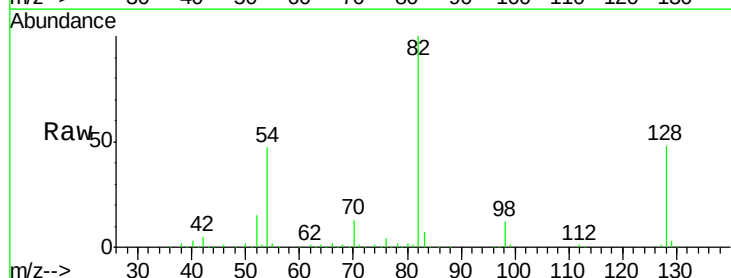


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

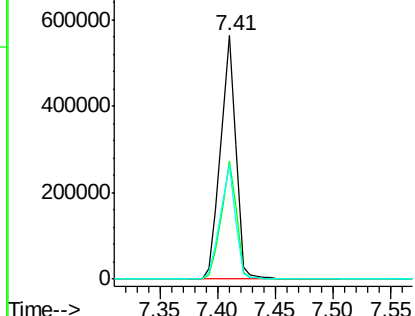
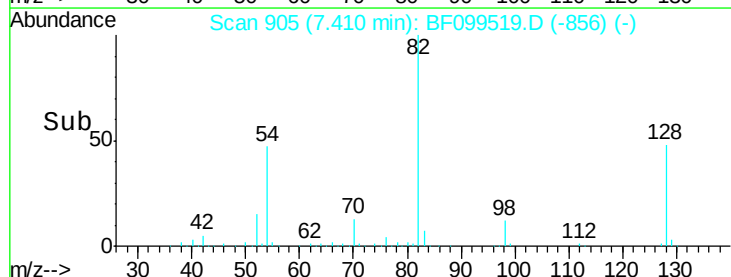


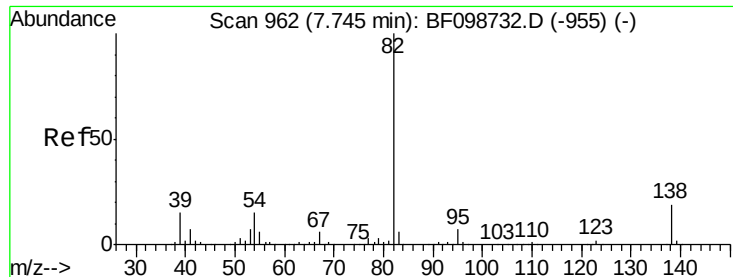
#23  
Nitrobenzene-d5  
Concen: 105.77 ng  
RT: 7.41 min Scan# 905  
Delta R.T. -0.01 min  
Lab File: BF099519.D  
Acq: 15 Oct 2017 17:49

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 528140    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 48.4  | 36.1 54.1 |
| 54          | 47.1  | 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: 51.16 ng

RT: 7.41 min Scan# 905

Delta R.T. -0.26 min

Lab File: BF099519.D

Acq: 15 Oct 2017 17:49

Instrument :

BNA\_F

ClientSampleId :

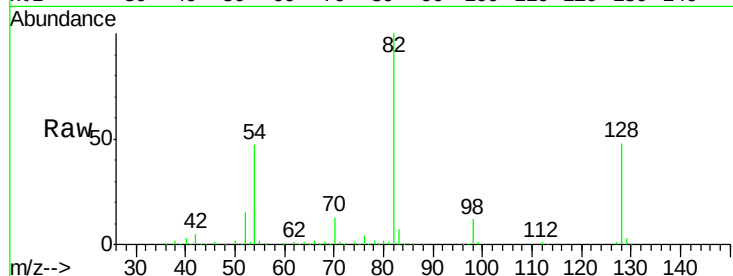
Tot Ion: 82 Resp: 528134

Ion Ratio Lower Upper

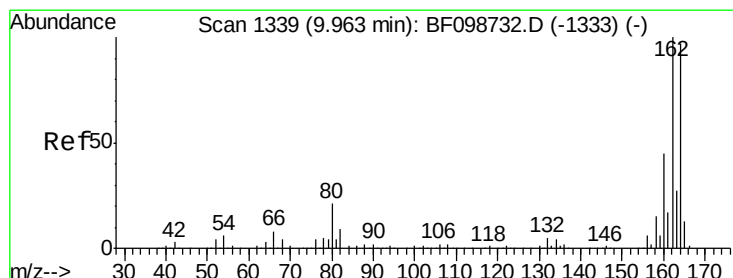
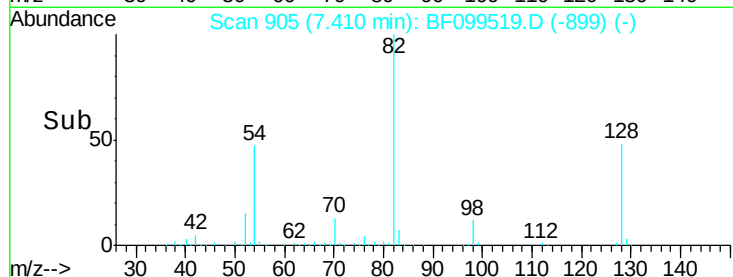
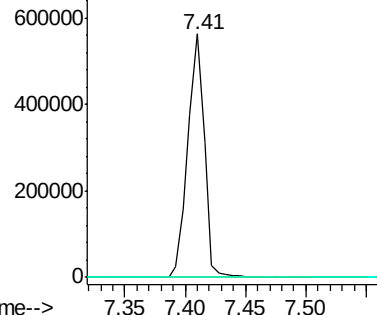
82 100

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: 9.88 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF099519.D

Acq: 15 Oct 2017 17:49

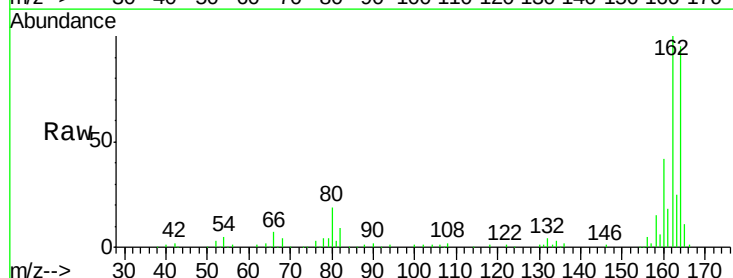
Tgt Ion: 164 Resp: 120433

Ion Ratio Lower Upper

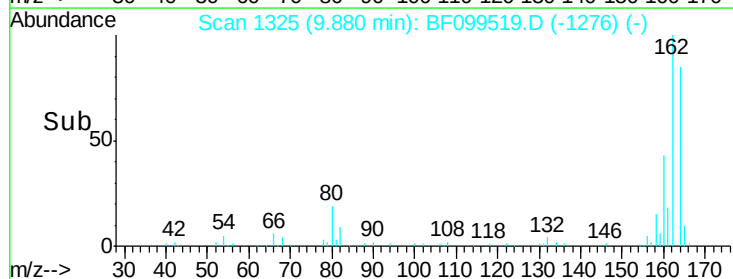
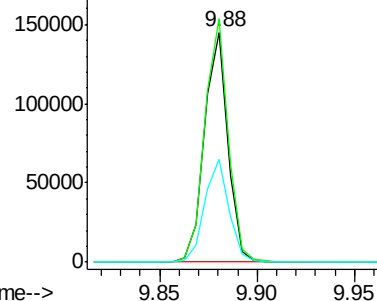
164 100

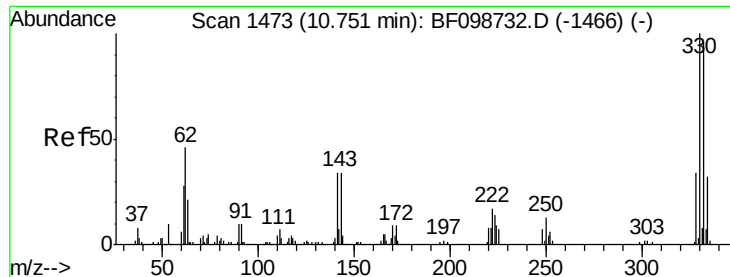
162 105.8 86.1 129.1

160 44.9 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

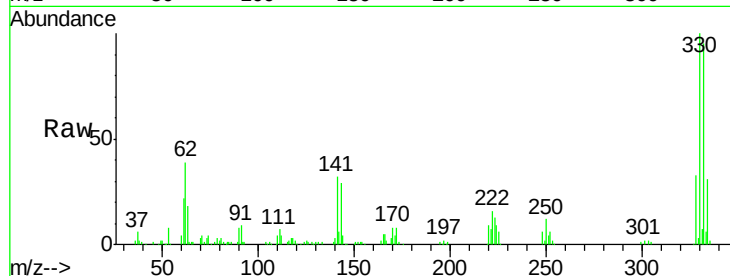




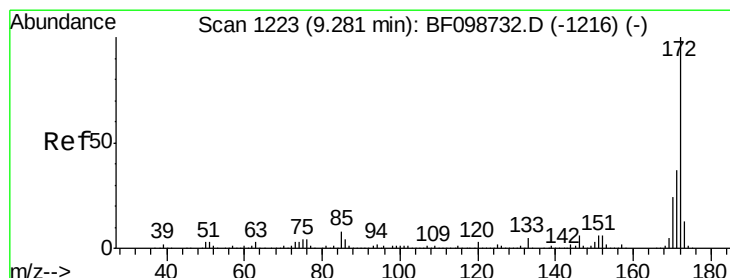
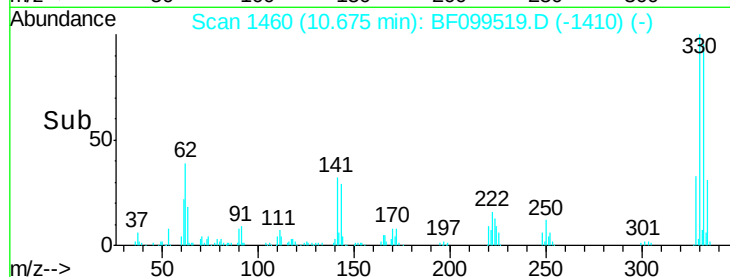
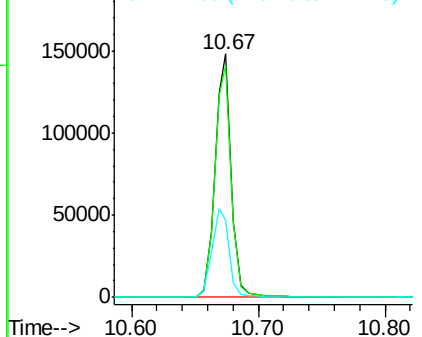
#41  
 2,4,6-Tribromophenol  
 Concen: 136.33 ng  
 RT: 10.67 min Scan# 1460  
 Delta R.T. -0.01 min  
 Lab File: BF099519.D  
 Acq: 15 Oct 2017 17:49

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion   | 330  | Resp  | 134348 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 332       | 96.9 | 77.0  | 115.6  |
| 141       | 38.7 | 29.9  | 44.9   |

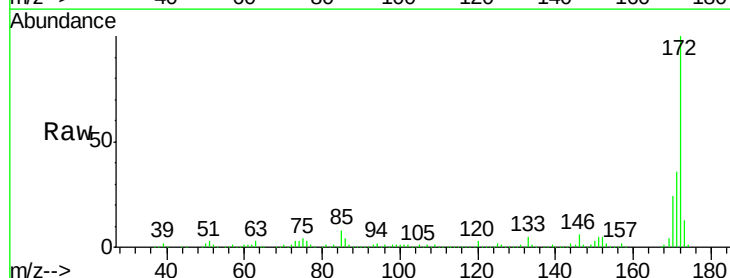


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

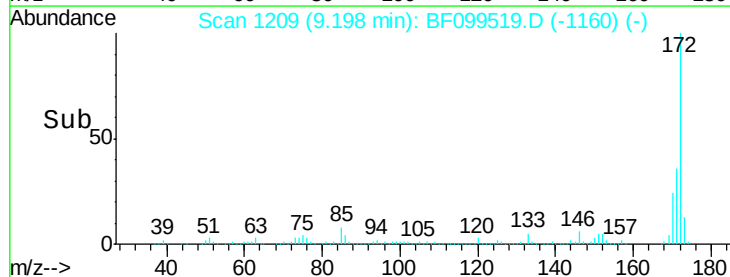
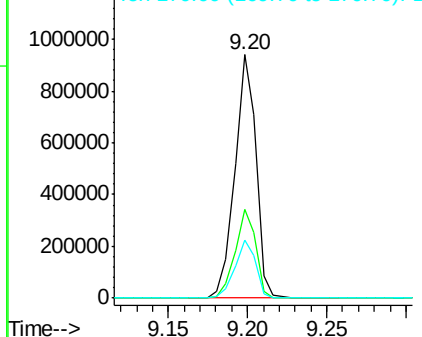


#44  
 2-Fluorobiphenyl  
 Concen: 120.12 ng  
 RT: 9.20 min Scan# 1209  
 Delta R.T. -0.01 min  
 Lab File: BF099519.D  
 Acq: 15 Oct 2017 17:49

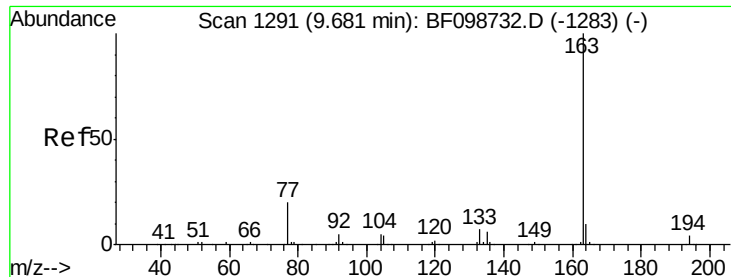
| Tgt Ion   | 172  | Resp  | 866536 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 171       | 36.3 | 29.7  | 44.5   |
| 170       | 23.7 | 19.6  | 29.4   |



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



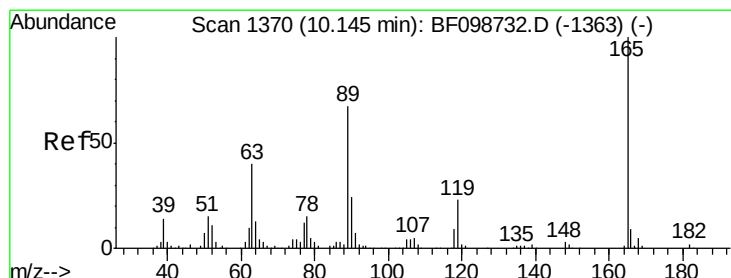
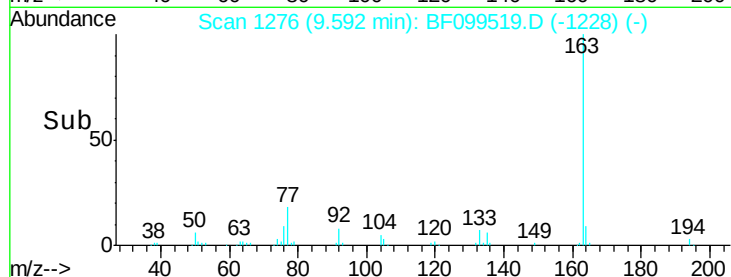
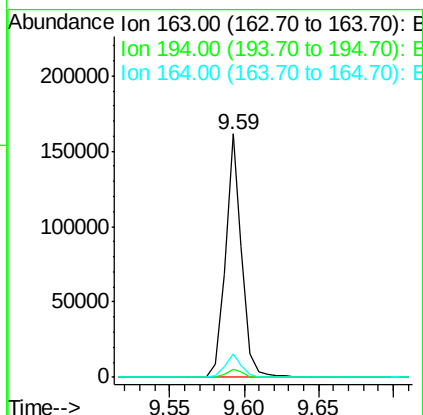
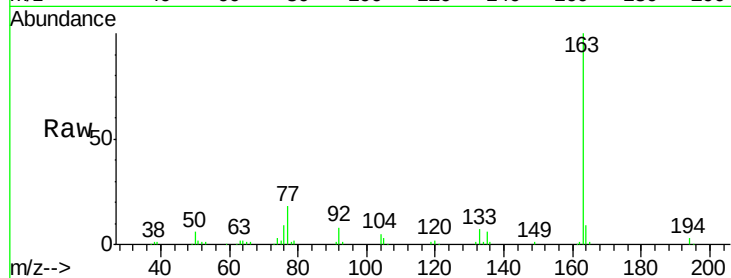




#49  
Dimethylphthalate  
Concen: 13.65 ng  
RT: 9.59 min Scan# 1276  
Delta R.T. -0.02 min  
Lab File: BF099519.D  
Acq: 15 Oct 2017 17:49

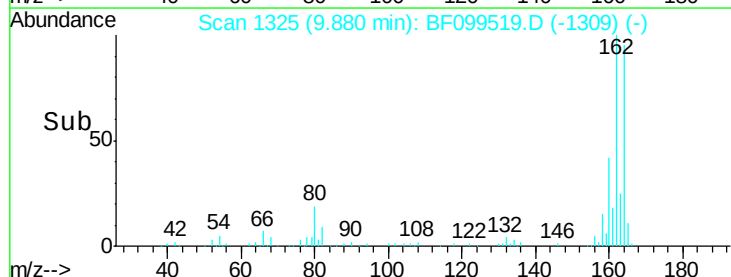
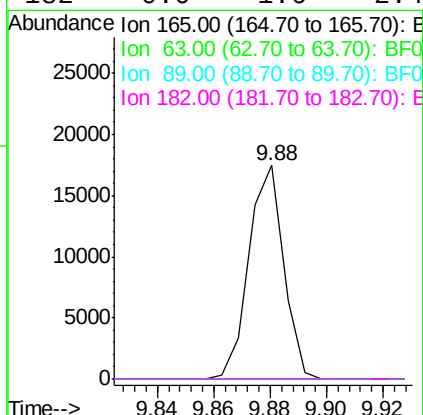
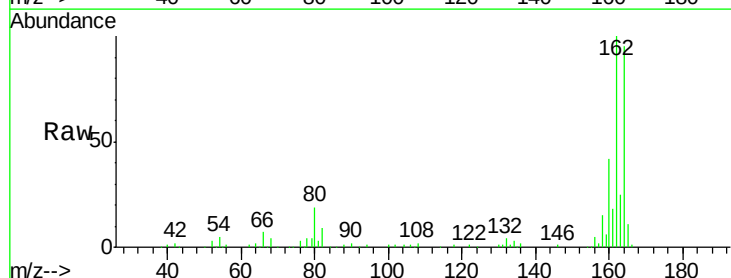
Instrument :  
BNA\_F  
ClientSampleId :

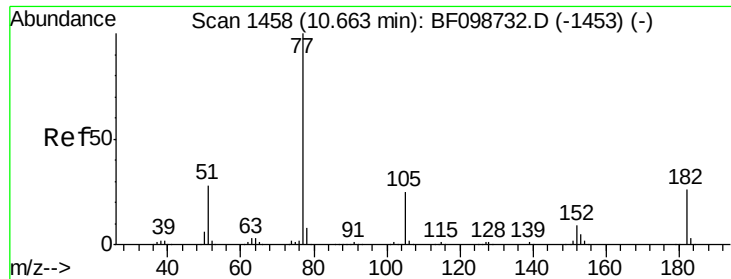
Tot Ion:163 Resp: 124050  
Ion Ratio Lower Upper  
163 100  
194 3.2 2.7 4.1  
164 9.5 8.2 12.2



#56  
2,4-Dinitrotoluene  
Concen: 5.82 ng  
RT: 9.88 min Scan# 1325  
Delta R.T. -0.21 min  
Lab File: BF099519.D  
Acq: 15 Oct 2017 17:49

Tgt Ion:165 Resp: 14958  
Ion Ratio Lower Upper  
165 100  
63 0.0 36.4 54.6#  
89 0.0 57.8 86.6#  
182 0.0 1.6 2.4#





#62

Azobenzene

Concen: 6.41 ng

RT: 10.59 min Scan# 1446

Delta R.T. 0.01 min

Lab File: BF099519.D

Acq: 15 Oct 2017 17:49

Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 77 Resp: 52360

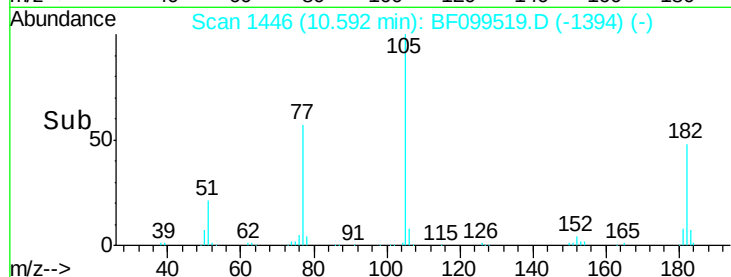
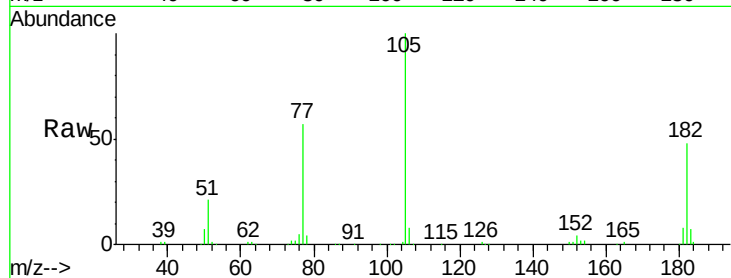
Ion Ratio Lower Upper

77 100

182 83.8 1.7 41.7#

105 175.3 3.0 43.0#

51 36.0 9.9 49.9

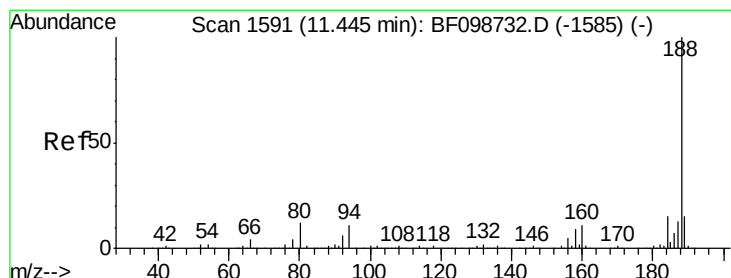
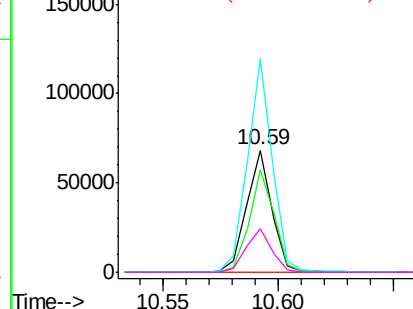


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 182.00 (181.70 to 182.70): BF0

Ion 105.00 (104.70 to 105.70): BF0

Ion 51.00 (50.70 to 51.70): BF0



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.37 min Scan# 1578

Delta R.T. -0.01 min

Lab File: BF099519.D

Acq: 15 Oct 2017 17:49

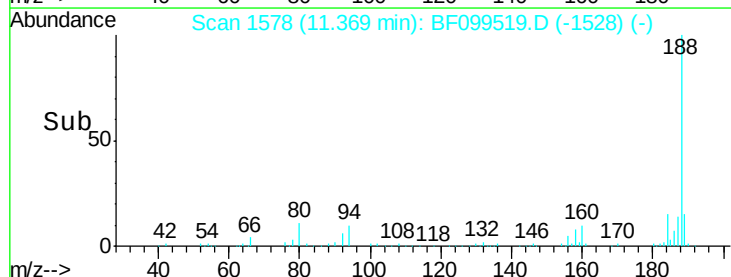
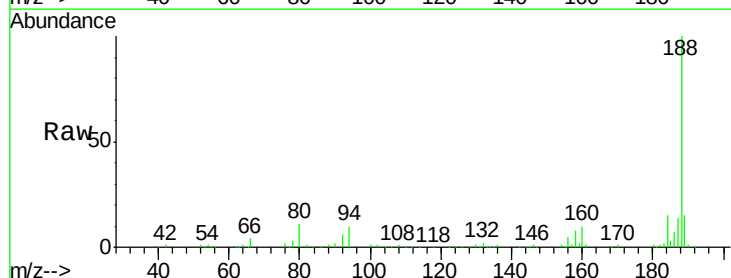
Tgt Ion: 188 Resp: 176969

Ion Ratio Lower Upper

188 100

94 10.2 8.5 12.7

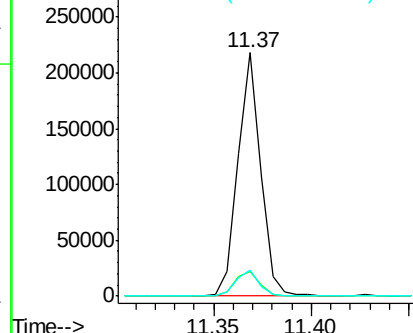
80 10.8 9.2 13.8

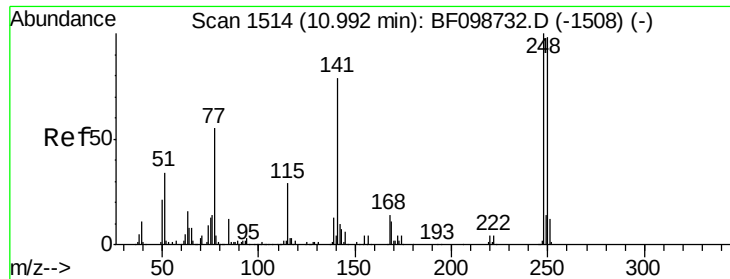


Abundance Ion 188.00 (187.70 to 188.70): BF0

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

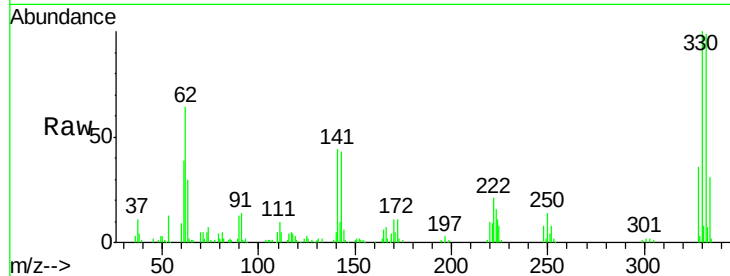




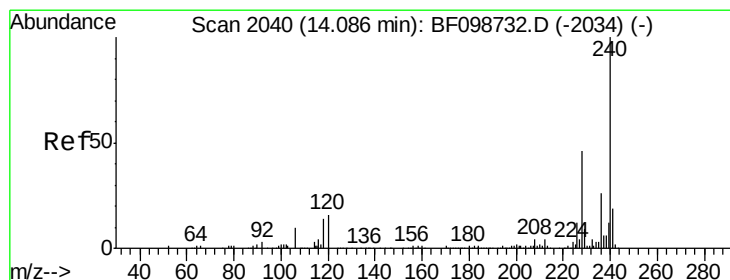
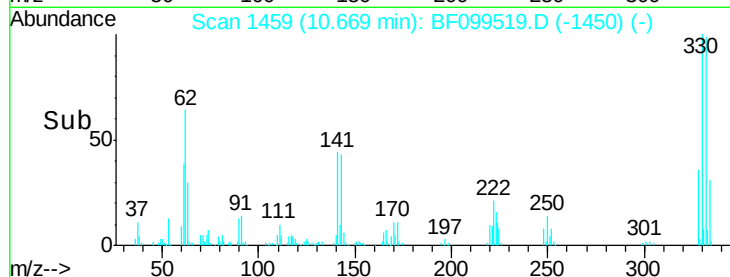
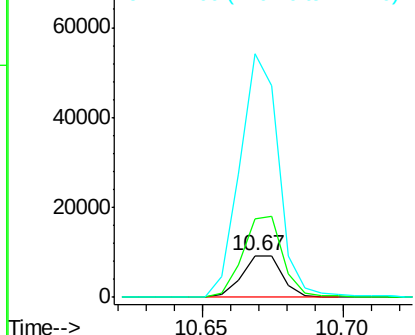
#66  
 4-Bromophenyl-phenylether  
 Concen: 5.23 ng  
 RT: 10.67 min Scan# 1459  
 Delta R.T. -0.25 min  
 Lab File: BF099519.D  
 Acq: 15 Oct 2017 17:49

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:248 Resp: 9063  
 Ion Ratio Lower Upper  
 248 100  
 250 188.1 76.9 115.3#  
 141 581.0 74.4 111.6#

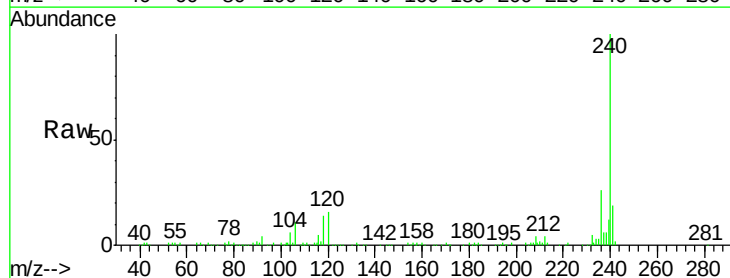


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

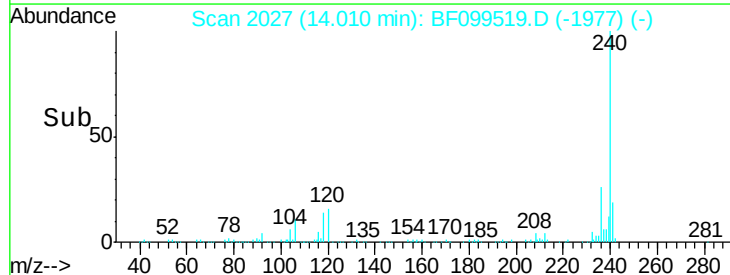
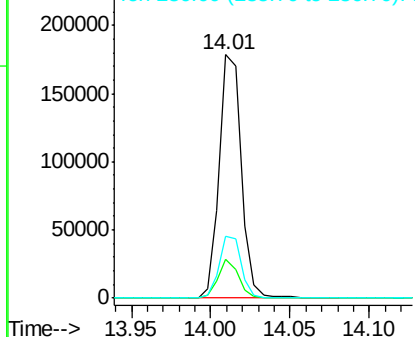


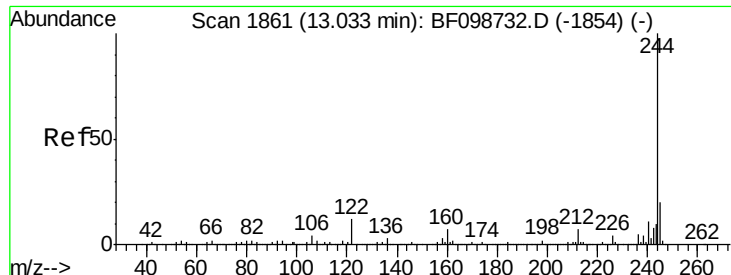
#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 14.01 min Scan# 2027  
 Delta R.T. -0.01 min  
 Lab File: BF099519.D  
 Acq: 15 Oct 2017 17:49

Tgt Ion:240 Resp: 173196  
 Ion Ratio Lower Upper  
 240 100  
 120 15.7 9.5 14.3#  
 236 25.5 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: 78.02 ng

RT: 12.95 min Scan# 1847

Delta R.T. -0.01 min

Lab File: BF099519.D

Acq: 15 Oct 2017 17:49

Instrument :

BNA\_F

ClientSampleId :

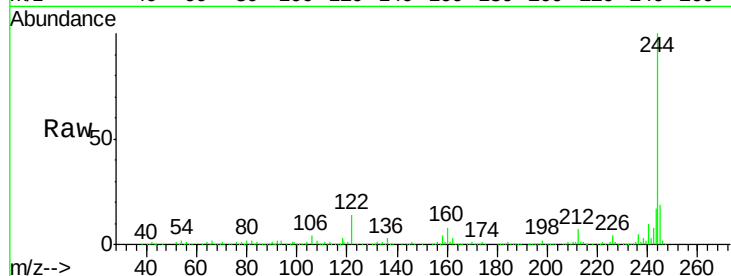
Tot Ion:244 Resp: 594152

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.0

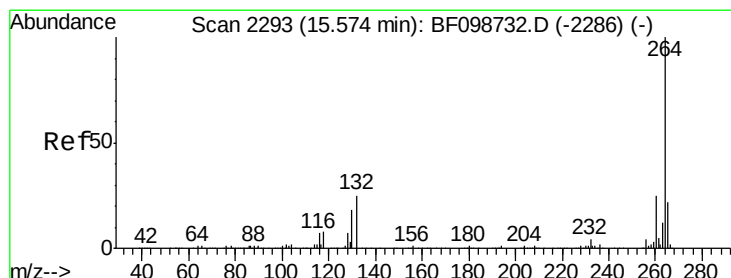
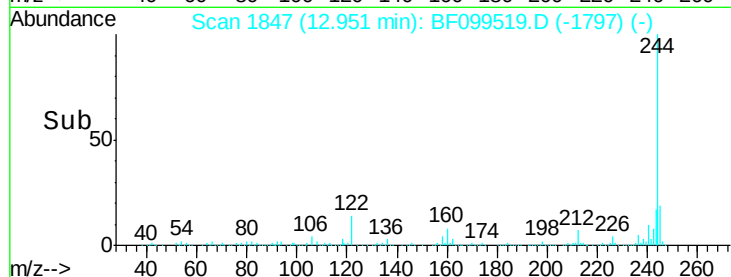
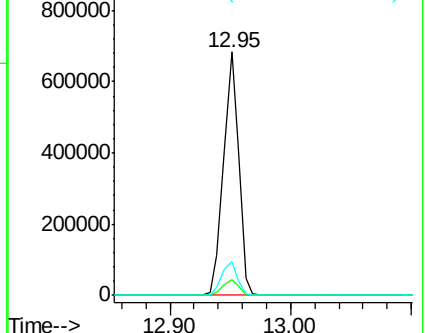
122 14.0 11.0 16.4



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

Perylene-d12

Concen: 20.00 ng

RT: 15.49 min Scan# 2278

Delta R.T. 0.01 min

Lab File: BF099519.D

Acq: 15 Oct 2017 17:49

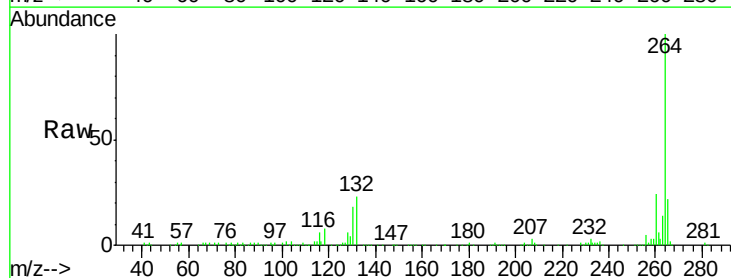
Tgt Ion:264 Resp: 171555

Ion Ratio Lower Upper

264 100

260 23.9 19.2 28.8

265 21.9 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

