

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122717\  
 Data File : BF101770.D  
 Acq On : 27 Dec 2017 18:48  
 Operator : SJ/JU  
 Sample : I6685-11 2X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 28 04:06:03 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 26 10:48:01 2017  
 Response via : Initial Calibration

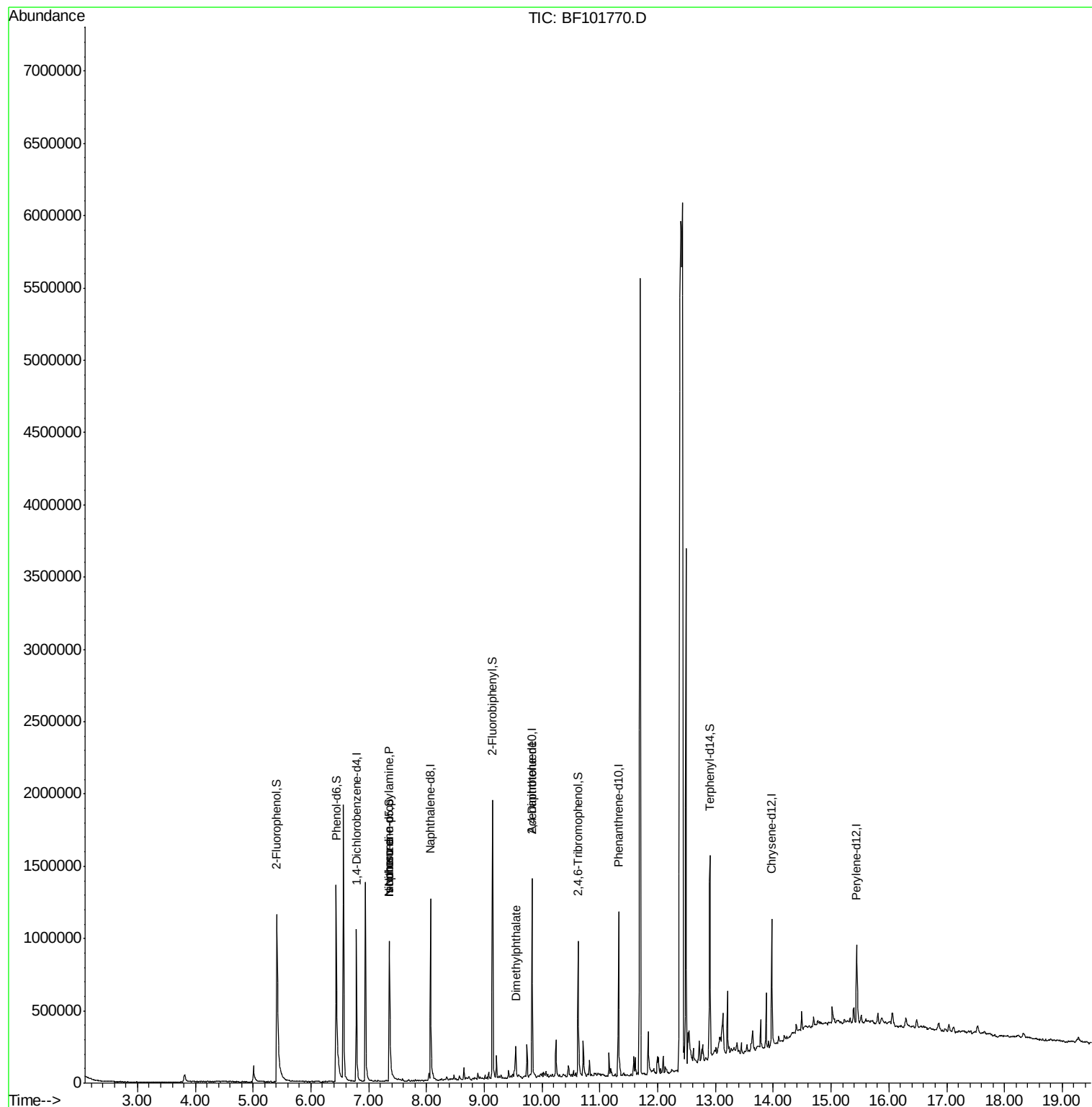
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.79  | 152  | 168123   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.07  | 136  | 640685   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.83  | 164  | 267780   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.32 | 188  | 430282   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 13.97 | 240  | 320699   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.44 | 264  | 297004   | 20.00  | ng    | 0.01     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.41  | 112  | 592432   | 52.49  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.43  | 99   | 711059   | 50.62  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.36  | 82   | 418835   | 36.39  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.63 | 330  | 128578   | 49.83  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.15  | 172  | 672097   | 38.93  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.90 | 244  | 475519   | 35.75  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.36  | 70   | 59260    | 6.424  | ng    | # 80     |
| 25) Isophorone                 | 7.36  | 82   | 418835   | 18.140 | ng    | # 64     |
| 49) Dimethylphthalate          | 9.55  | 163  | 90639    | 4.208  | ng    | 99       |
| 56) 2,4-Dinitrotoluene         | 9.83  | 165  | 35369    | 7.171  | ng    | # 23     |

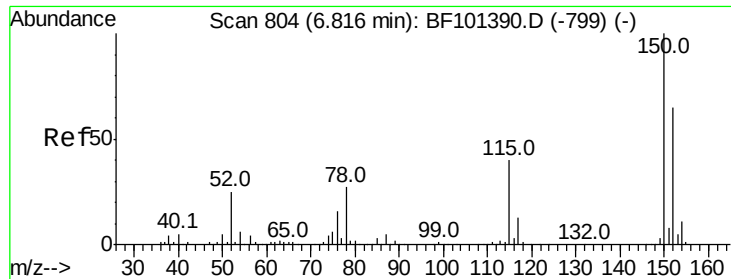
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_F  
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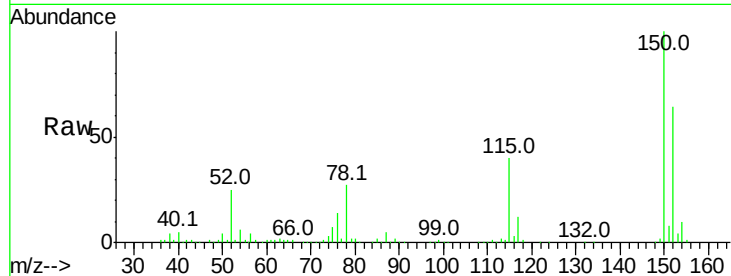


#1

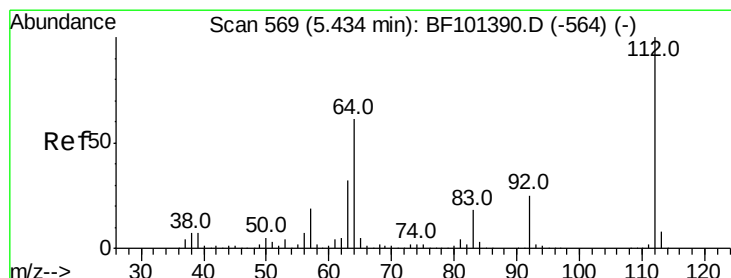
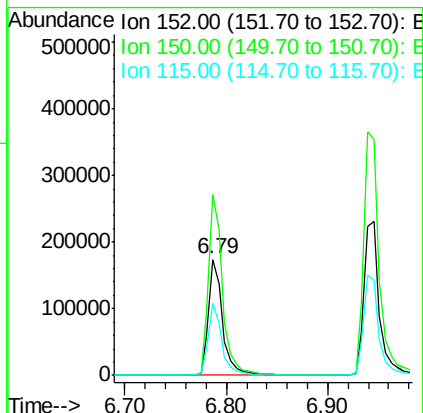
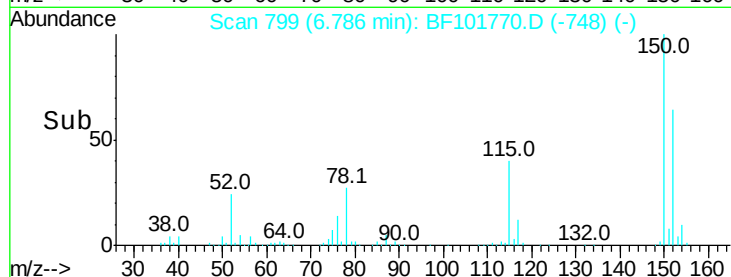
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.79 min Scan# 799  
Delta R.T. -0.00 min  
Lab File: BF101770.D  
Acq: 27 Dec 2017 18:48

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:152 Resp: 168123  
Ion Ratio Lower Upper  
152 100  
150 156.6 124.6 186.8  
115 62.6 50.1 75.1



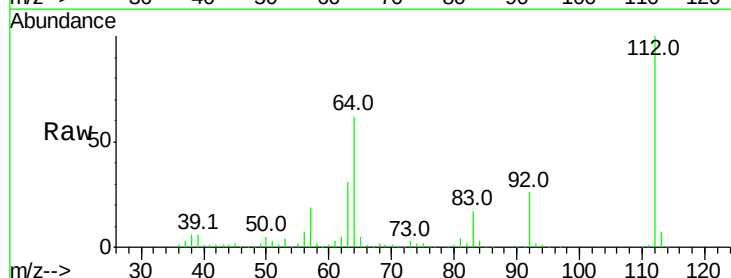
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



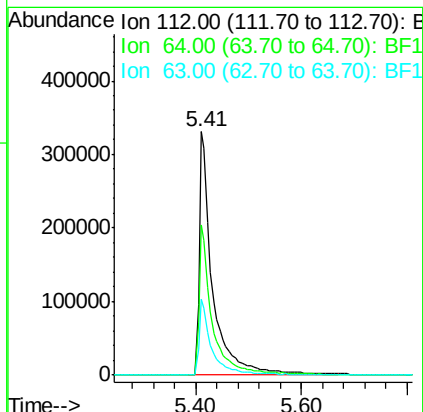
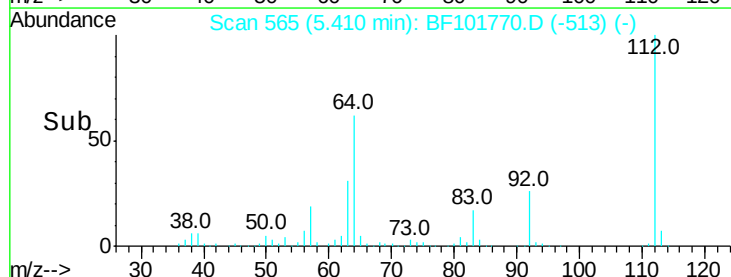
#5

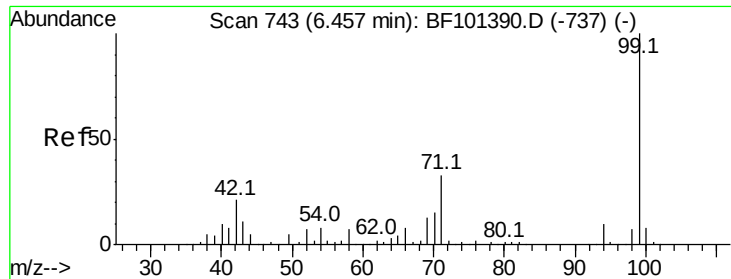
2-Fluorophenol  
Concen: 52.490 ng  
RT: 5.41 min Scan# 565  
Delta R.T. 0.01 min  
Lab File: BF101770.D  
Acq: 27 Dec 2017 18:48

Tgt Ion:112 Resp: 592432  
Ion Ratio Lower Upper  
112 100  
64 61.6 47.9 71.9  
63 31.4 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: 50.621 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.00 min

Lab File: BF101770.D

Acq: 27 Dec 2017 18:48

Instrument :

BNA\_F

ClientSampleId :

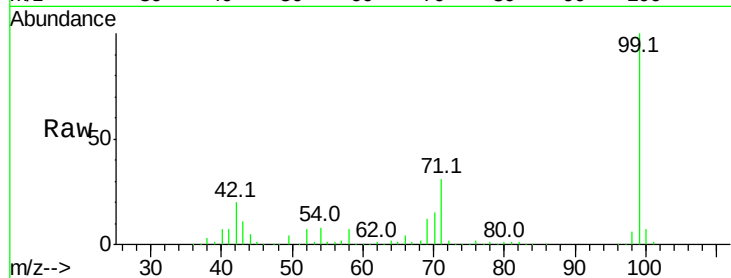
Tot Ion: 99 Resp: 711059

Ion Ratio Lower Upper

99 100

42 20.0 14.5 21.7

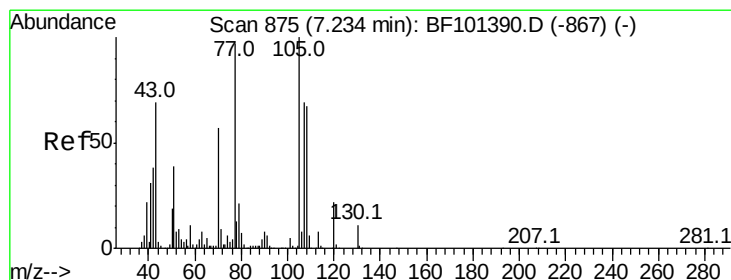
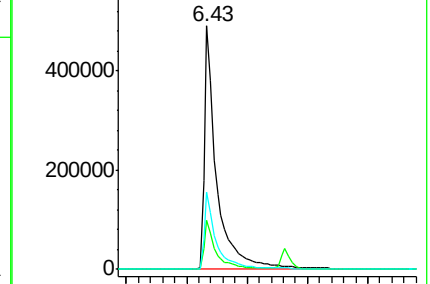
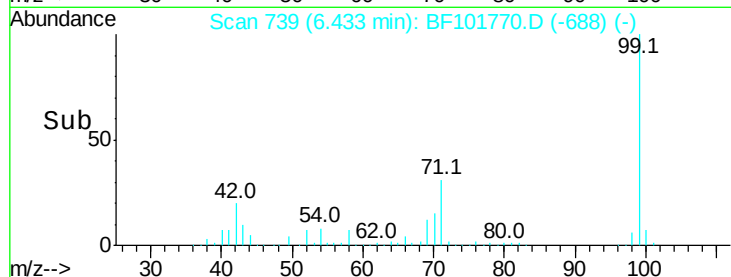
71 31.5 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 6.424 ng

RT: 7.36 min Scan# 896

Delta R.T. 0.15 min

Lab File: BF101770.D

Acq: 27 Dec 2017 18:48

Tgt Ion: 70 Resp: 59260

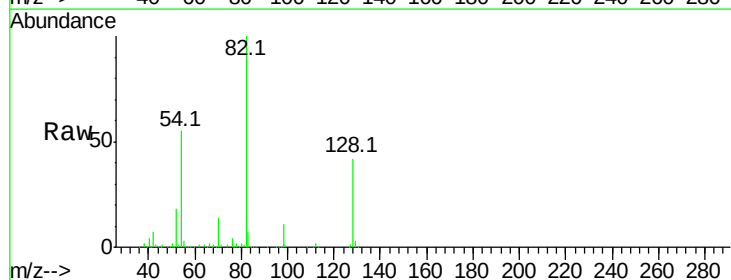
Ion Ratio Lower Upper

70 100

42 50.2 47.5 71.3

101 0.0 7.4 11.2#

130 2.4 16.6 25.0#

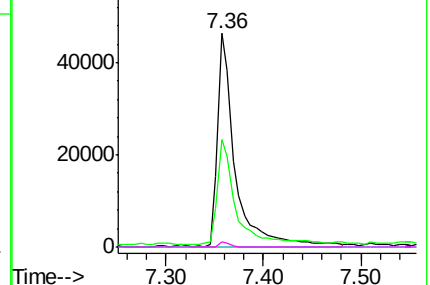
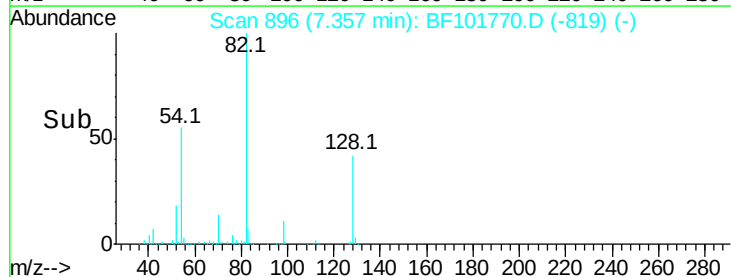


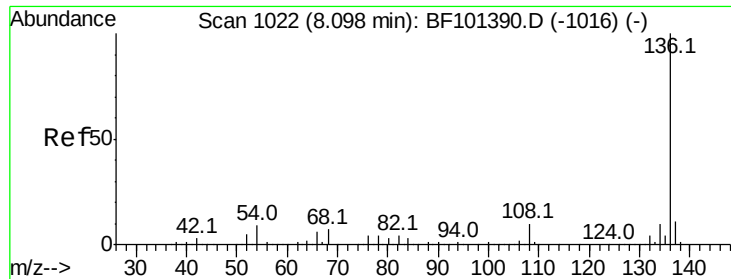
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

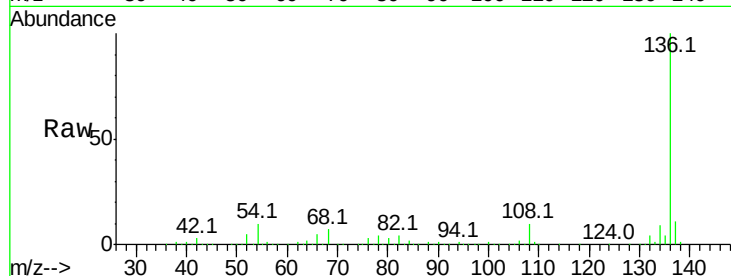




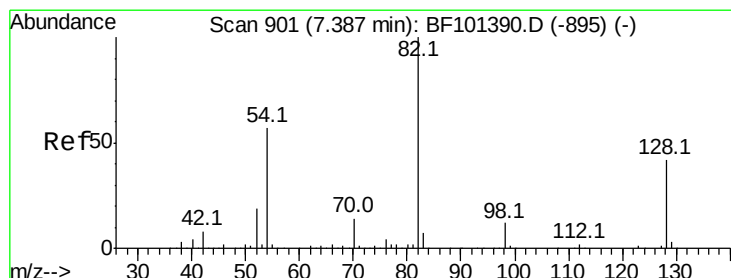
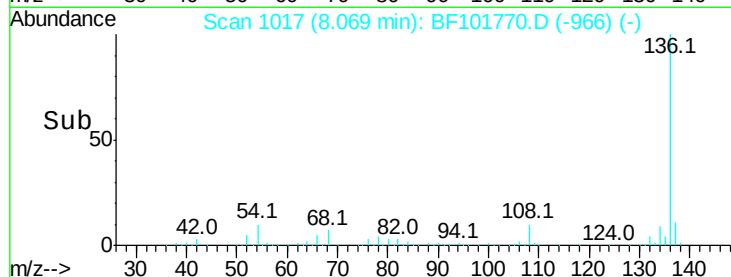
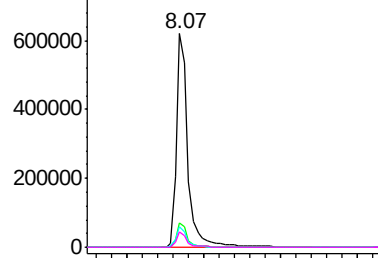
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.07 min Scan# 1017  
Delta R.T. -0.00 min  
Lab File: BF101770.D  
Acq: 27 Dec 2017 18:48

Instrument :  
BNA\_F  
ClientSampled :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 640685 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.3  | 8.9   | 13.3   |
| 54       | 9.6   | 6.6   | 9.8    |
| 68       | 7.0   | 5.0   | 7.4    |

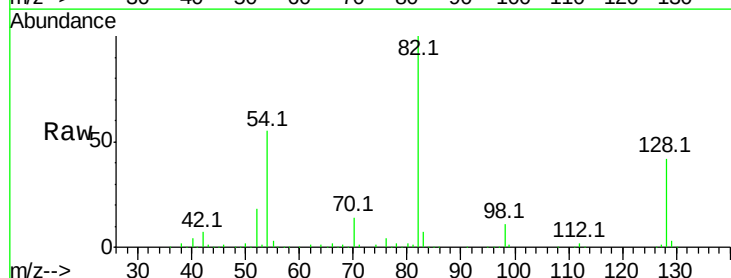


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

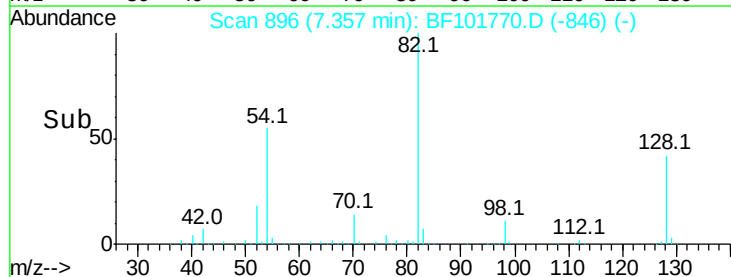
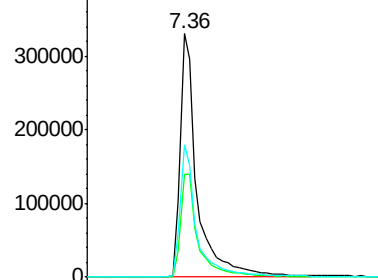


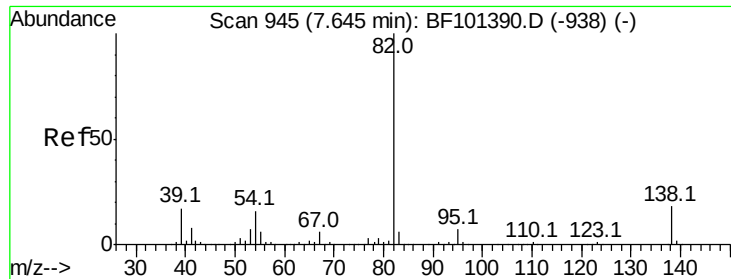
#23  
Nitrobenzene-d5  
Concen: 36.390 ng  
RT: 7.36 min Scan# 896  
Delta R.T. -0.01 min  
Lab File: BF101770.D  
Acq: 27 Dec 2017 18:48

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 418835 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 42.0  | 36.1  | 54.1   |
| 54       | 54.6  | 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: 18.140 ng

RT: 7.36 min Scan# 896

Delta R.T. -0.26 min

Lab File: BF101770.D

Acq: 27 Dec 2017 18:48

Instrument :

BNA\_F

ClientSampleId :

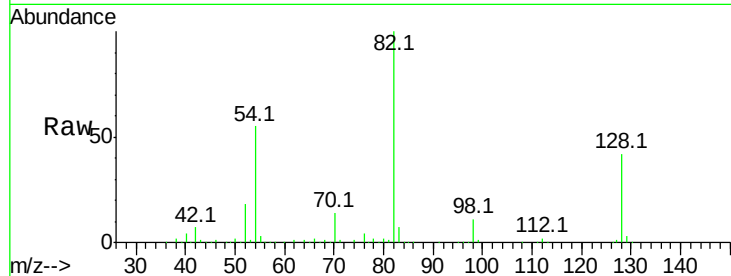
Tot Ion: 82 Resp: 418835

Ion Ratio Lower Upper

82 100

95 0.1 5.2 7.8#

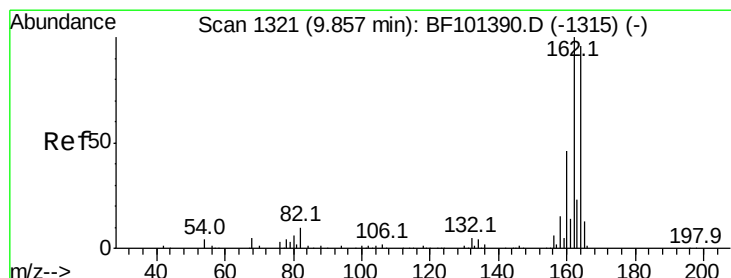
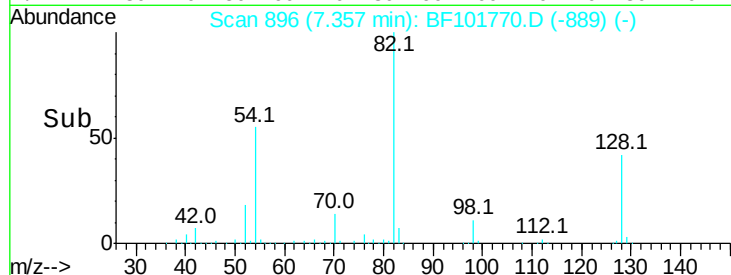
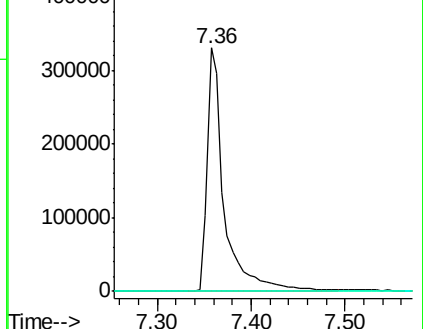
138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.83 min Scan# 1316

Delta R.T. -0.00 min

Lab File: BF101770.D

Acq: 27 Dec 2017 18:48

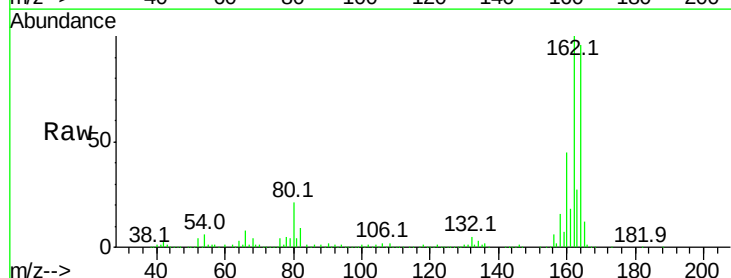
Tgt Ion:164 Resp: 267780

Ion Ratio Lower Upper

164 100

162 104.1 86.1 129.1

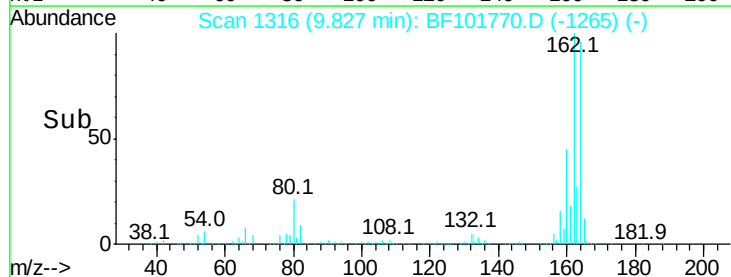
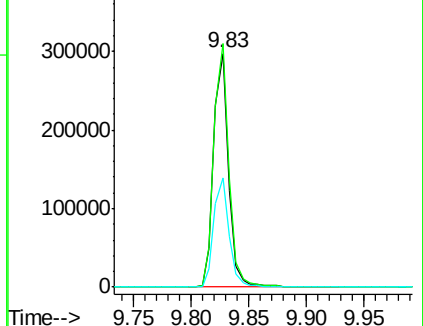
160 46.9 38.3 57.5

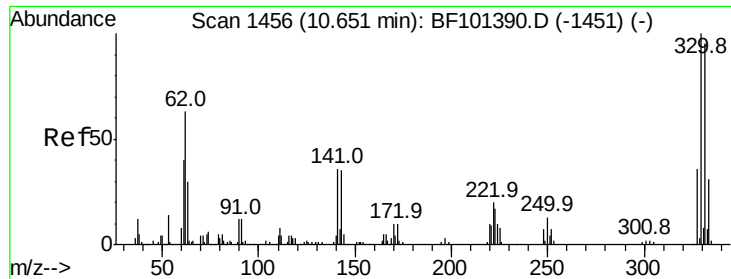


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

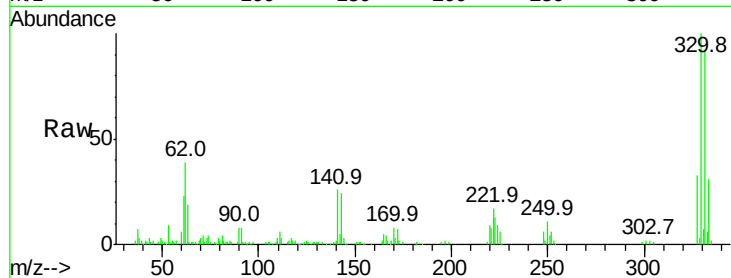




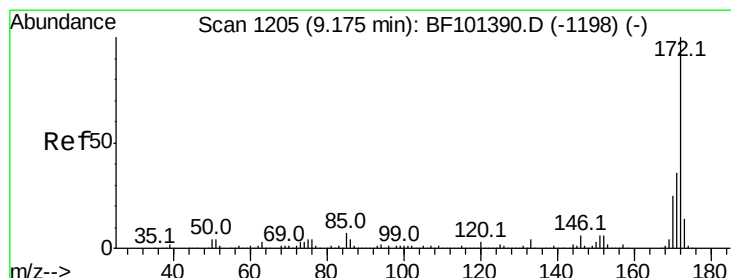
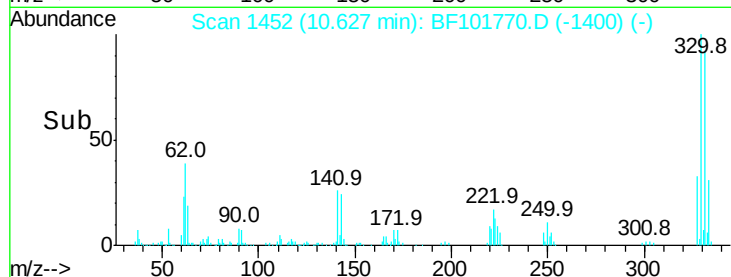
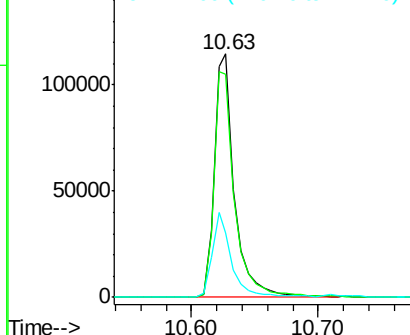
#41  
 2,4,6-Tribromophenol  
 Concen: 49.831 ng  
 RT: 10.63 min Scan# 1452  
 Delta R.T. 0.01 min  
 Lab File: BF101770.D  
 Acq: 27 Dec 2017 18:48

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.9  | 77.0  | 115.6 |
| 141     | 32.7  | 29.9  | 44.9  |

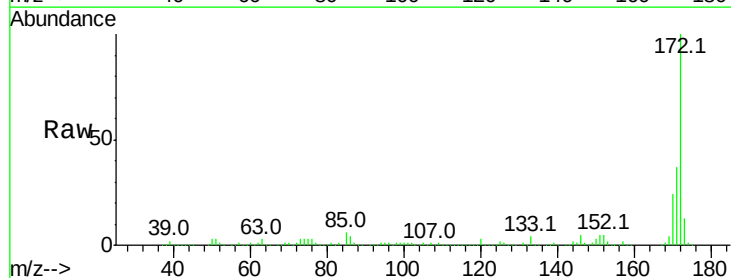


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

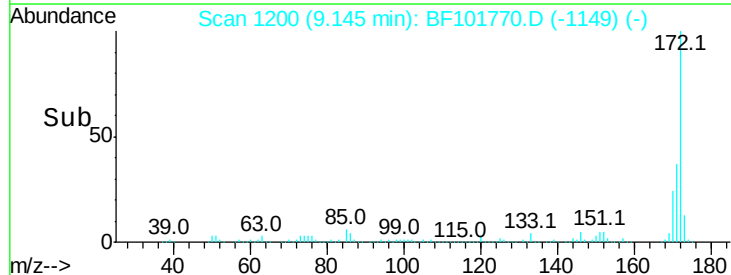
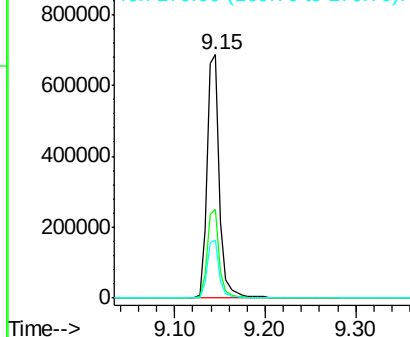


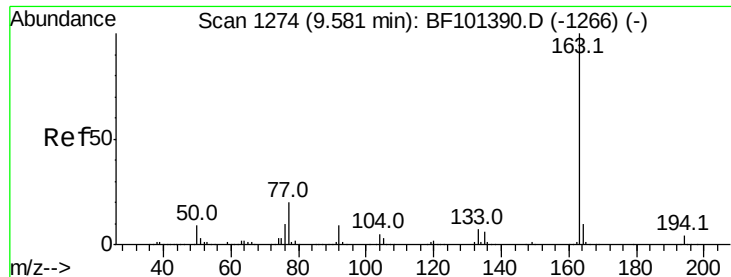
#44  
 2-Fluorobiphenyl  
 Concen: 38.934 ng  
 RT: 9.15 min Scan# 1200  
 Delta R.T. -0.00 min  
 Lab File: BF101770.D  
 Acq: 27 Dec 2017 18:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.7  | 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

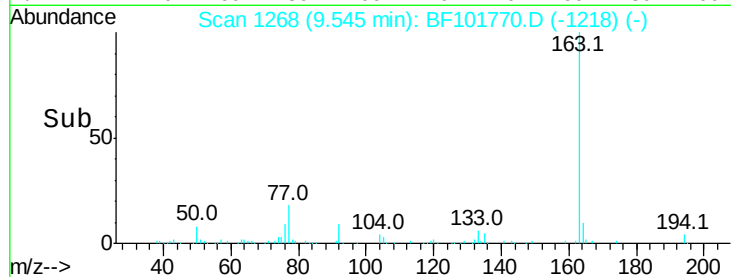
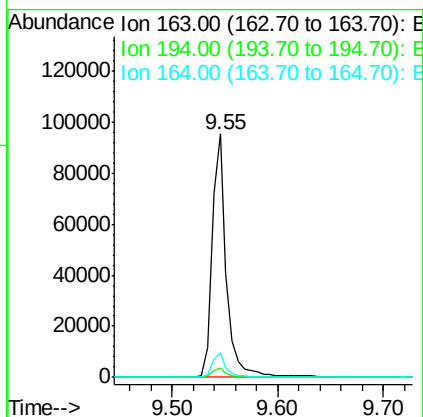
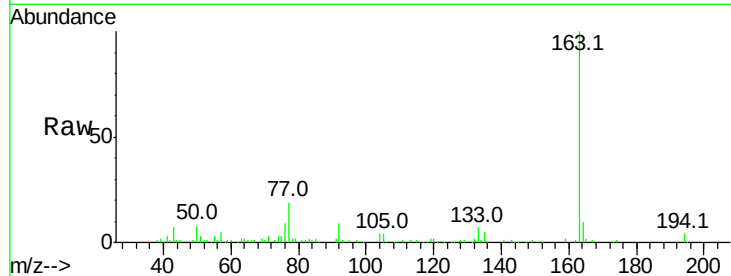




#49  
Dimethylphthalate  
Concen: 4.208 ng  
RT: 9.55 min Scan# 1268  
Delta R.T. -0.01 min  
Lab File: BF101770.D  
Acq: 27 Dec 2017 18:48

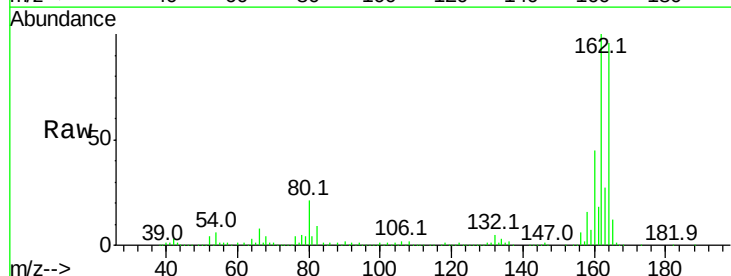
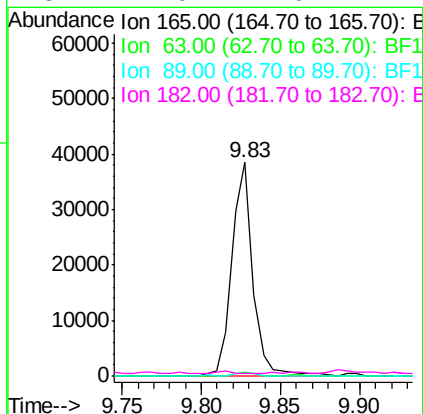
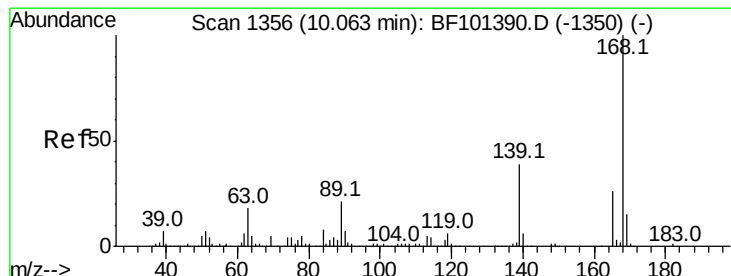
Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:163 Resp: 90639  
Ion Ratio Lower Upper  
163 100  
194 3.7 2.7 4.1  
164 9.9 8.2 12.2

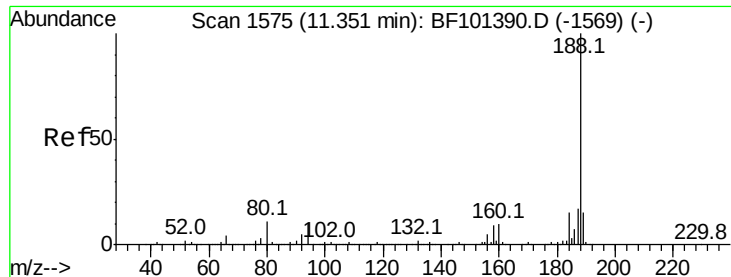


#56  
2,4-Dinitrotoluene  
Concen: 7.171 ng  
RT: 9.83 min Scan# 1316  
Delta R.T. -0.21 min  
Lab File: BF101770.D  
Acq: 27 Dec 2017 18:48

Tgt Ion:165 Resp: 35369  
Ion Ratio Lower Upper  
165 100  
63 1.7 36.4 54.6#  
89 1.4 57.8 86.6#  
182 1.0 1.6 2.4#



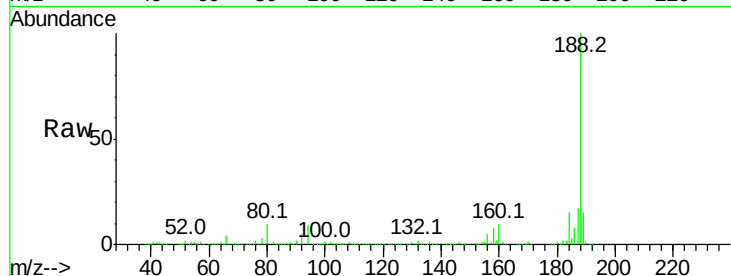




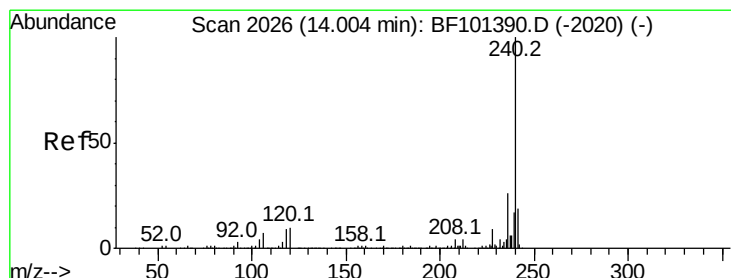
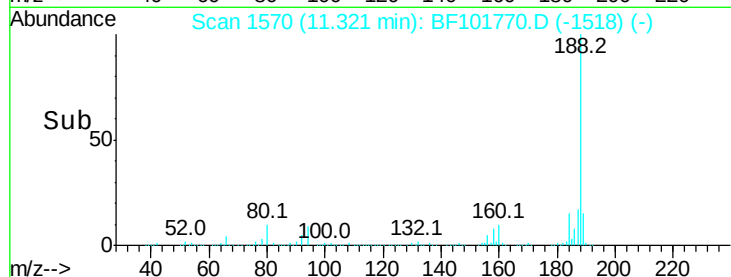
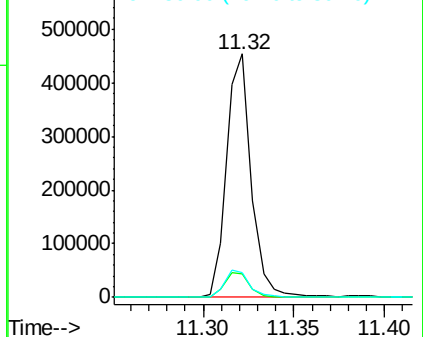
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.32 min Scan# 1570  
Delta R.T. 0.01 min  
Lab File: BF101770.D  
Acq: 27 Dec 2017 18:48

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:188 Resp: 430282  
Ion Ratio Lower Upper  
188 100  
94 9.5 8.5 12.7  
80 10.1 9.2 13.8

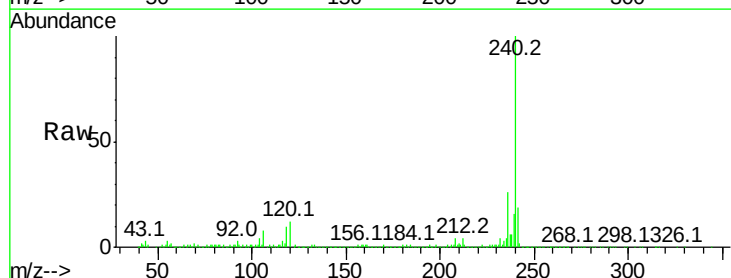


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

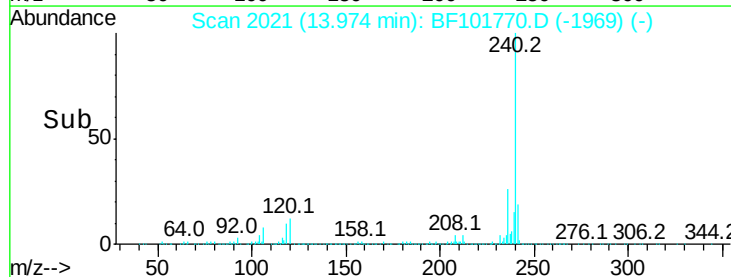
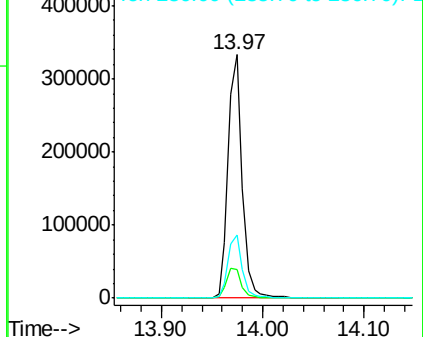


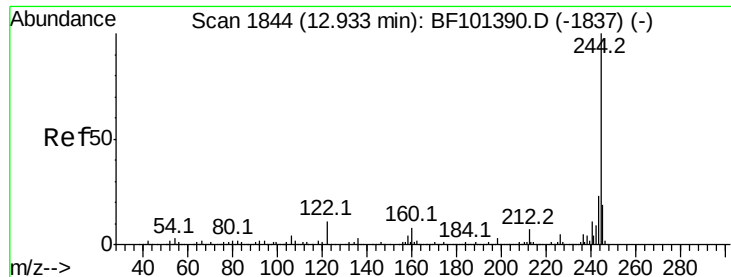
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.97 min Scan# 2021  
Delta R.T. 0.01 min  
Lab File: BF101770.D  
Acq: 27 Dec 2017 18:48

Tgt Ion:240 Resp: 320699  
Ion Ratio Lower Upper  
240 100  
120 11.8 9.5 14.3  
236 25.9 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: 35.746 ng

RT: 12.90 min Scan# 1839

Delta R.T. 0.01 min

Lab File: BF101770.D

Acq: 27 Dec 2017 18:48

Instrument :

BNA\_F

ClientSampleId :

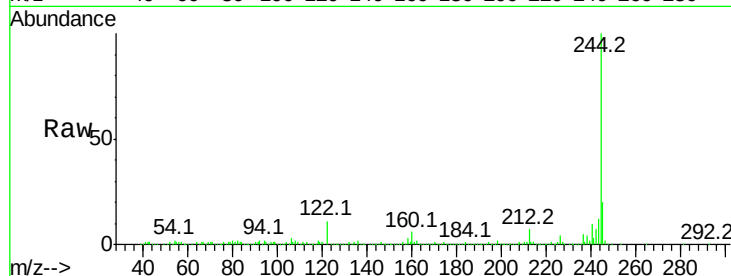
Tot Ion:244 Resp: 475519

Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.0

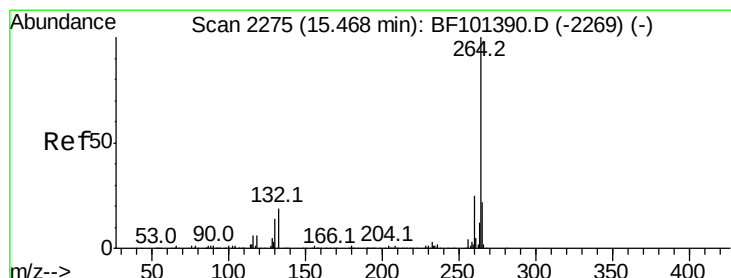
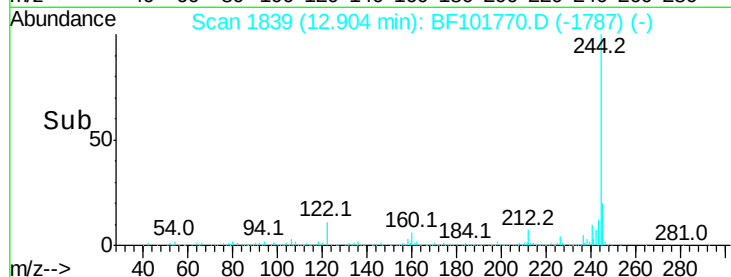
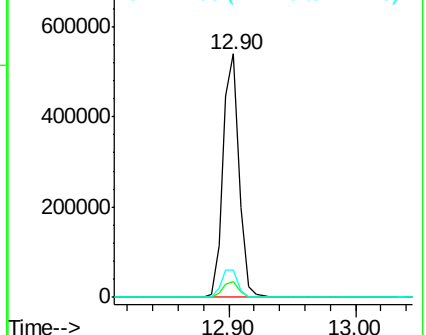
122 11.5 11.0 16.4



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: 20.000 ng

RT: 15.44 min Scan# 2271

Delta R.T. 0.01 min

Lab File: BF101770.D

Acq: 27 Dec 2017 18:48

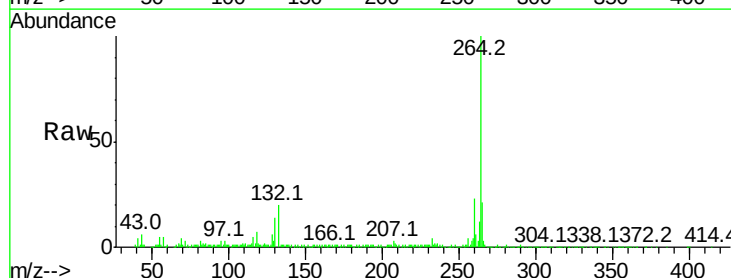
Tgt Ion:264 Resp: 297004

Ion Ratio Lower Upper

264 100

260 23.2 19.2 28.8

265 21.3 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

