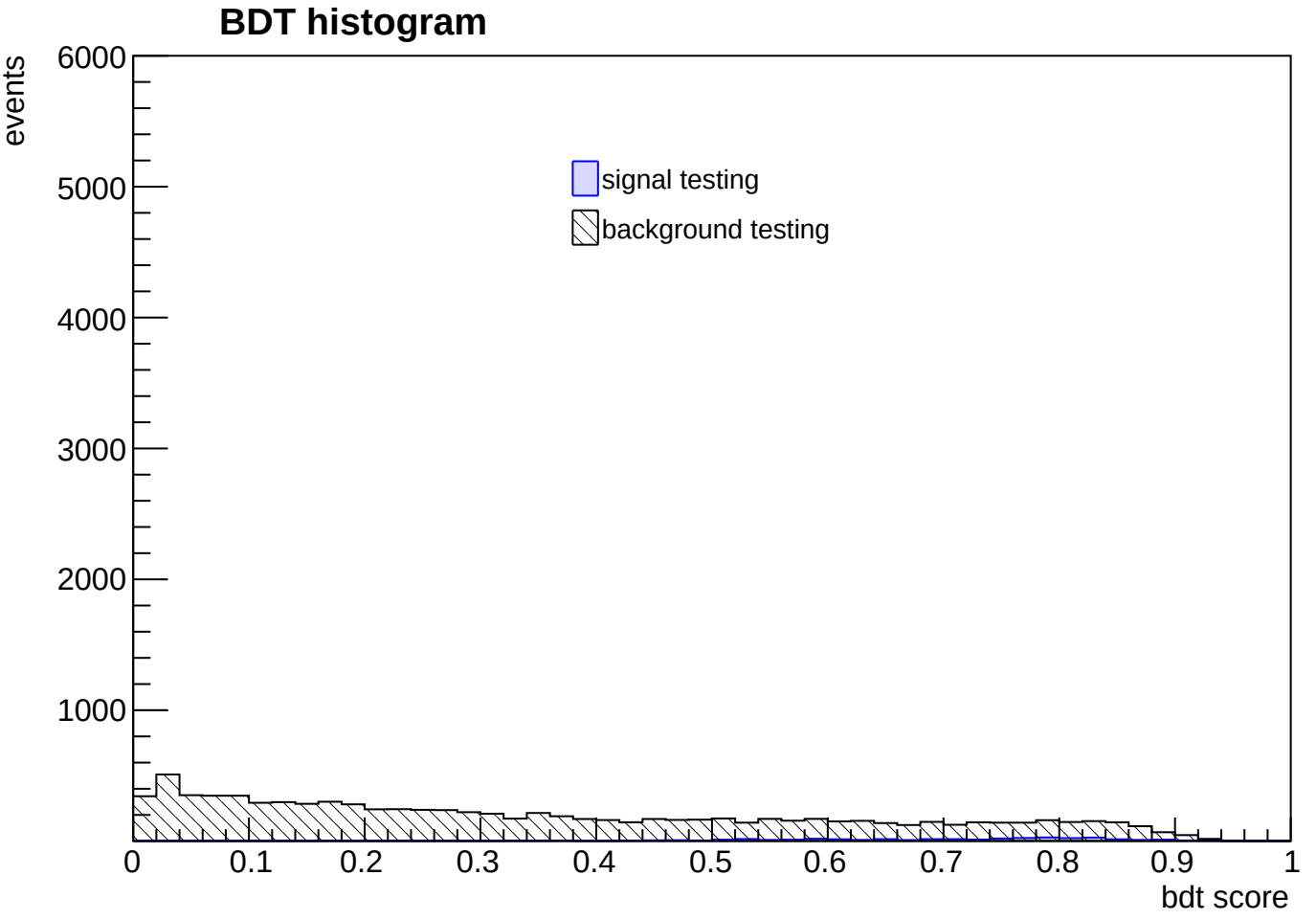
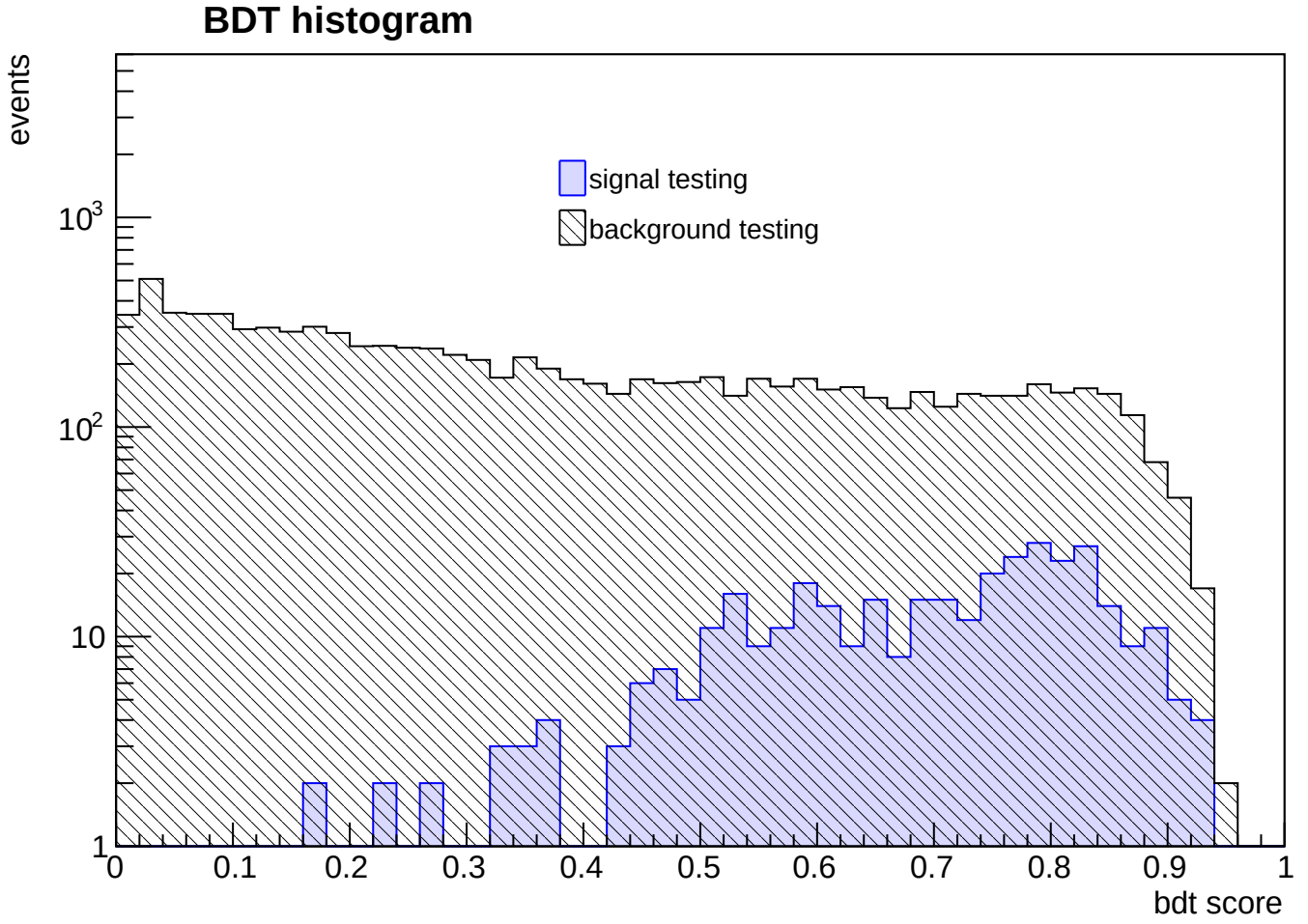
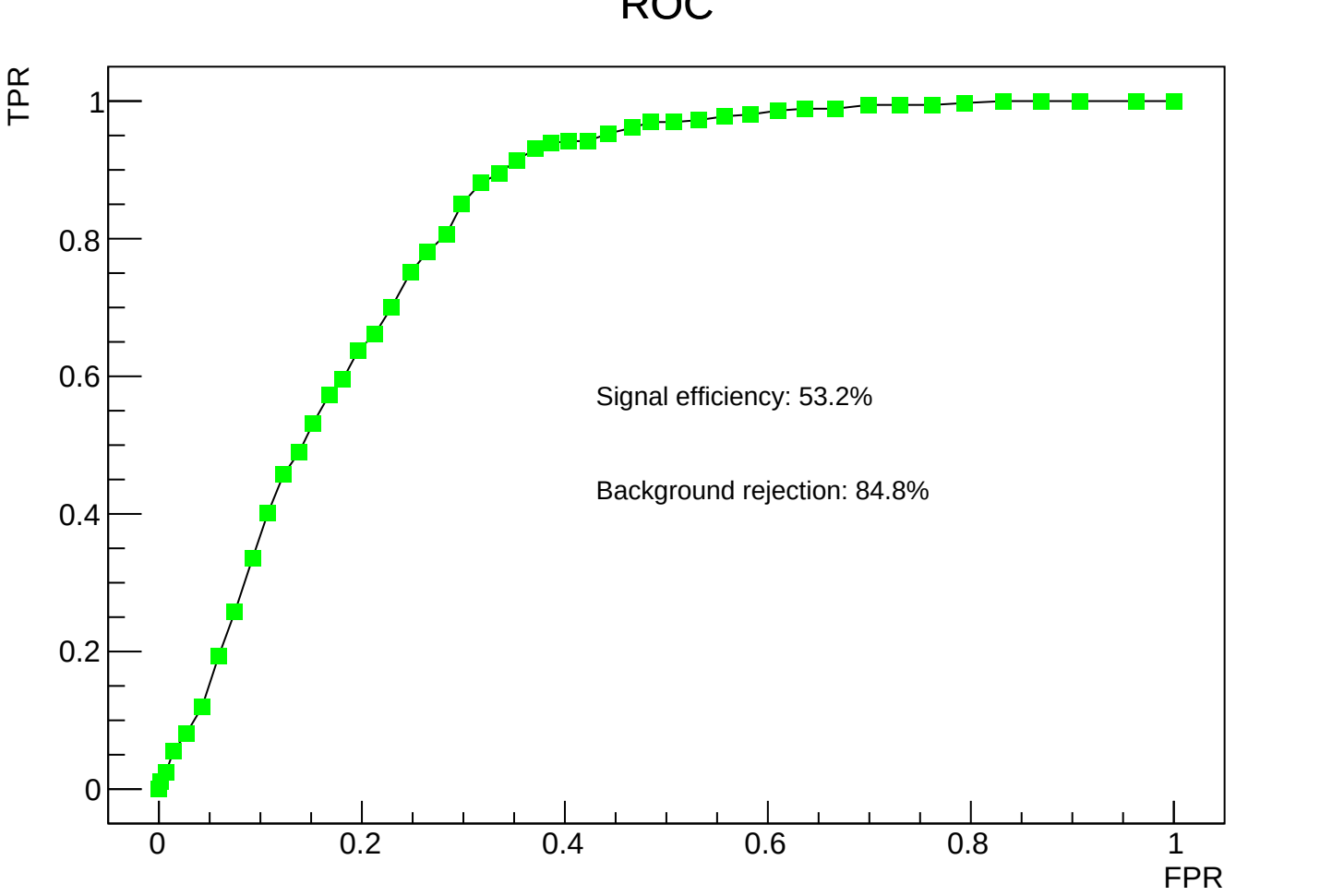
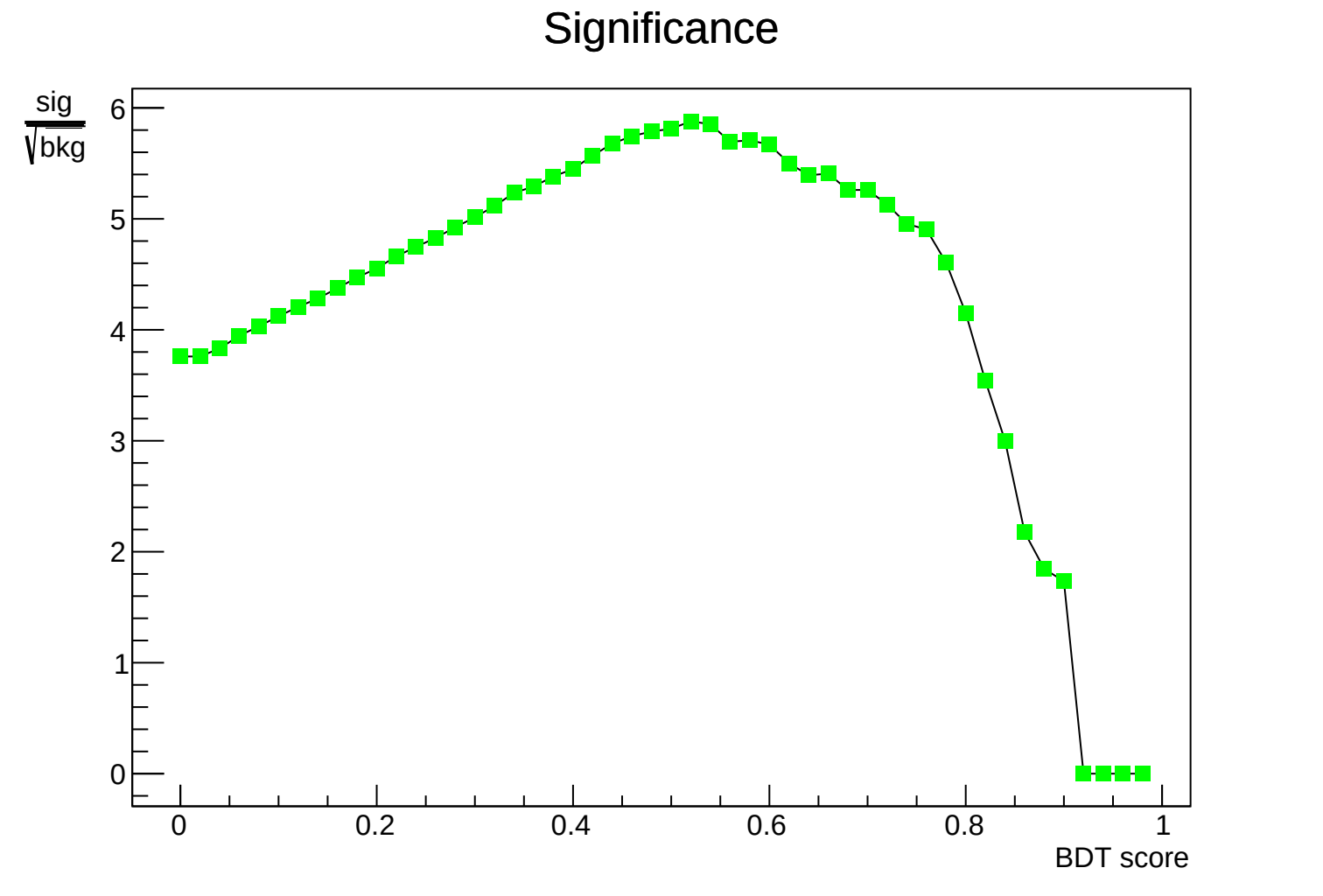
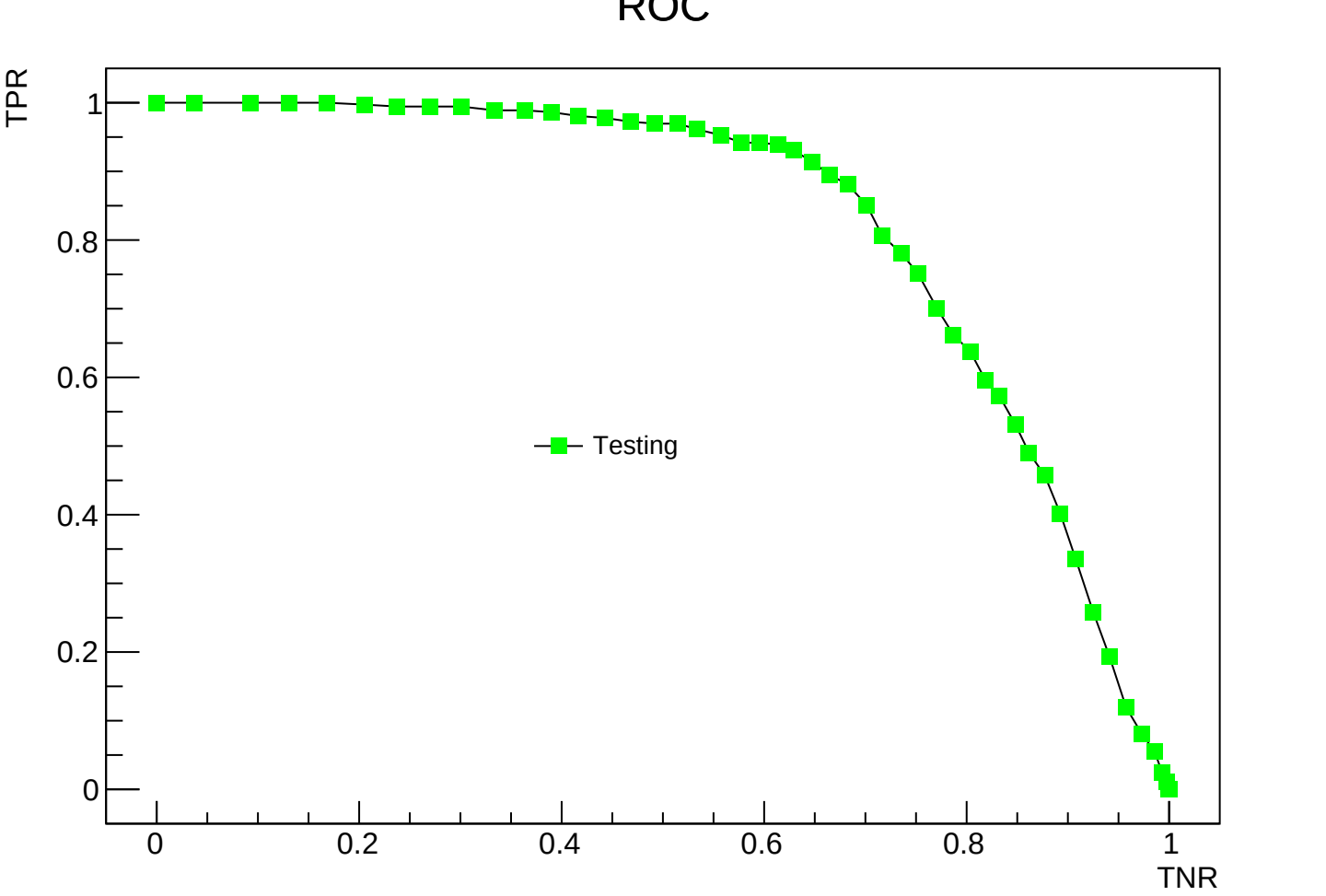

BDT histogram
events
6000
5000
4000
3000
2000
1000
signal testing
background testing
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
bdt score


BDT histogram
events
signal testing
background testing
10^3
10^2
10
1
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
bdt score


ROC
TPR
FPR
0
0.2
0.4
0.6
0.8
1
Signal efficiency: 53.2%
Background rejection: 84.8%


Significance
sig
√bkg
6
5
4
3
2
1
0
0
0.2
0.4
0.6
0.8
1
BDT score


ROC
TPR
1
0.8
0.6
0.4
0.2
0
0
0.2
0.4
0.6
0.8
1
TNR
Testing