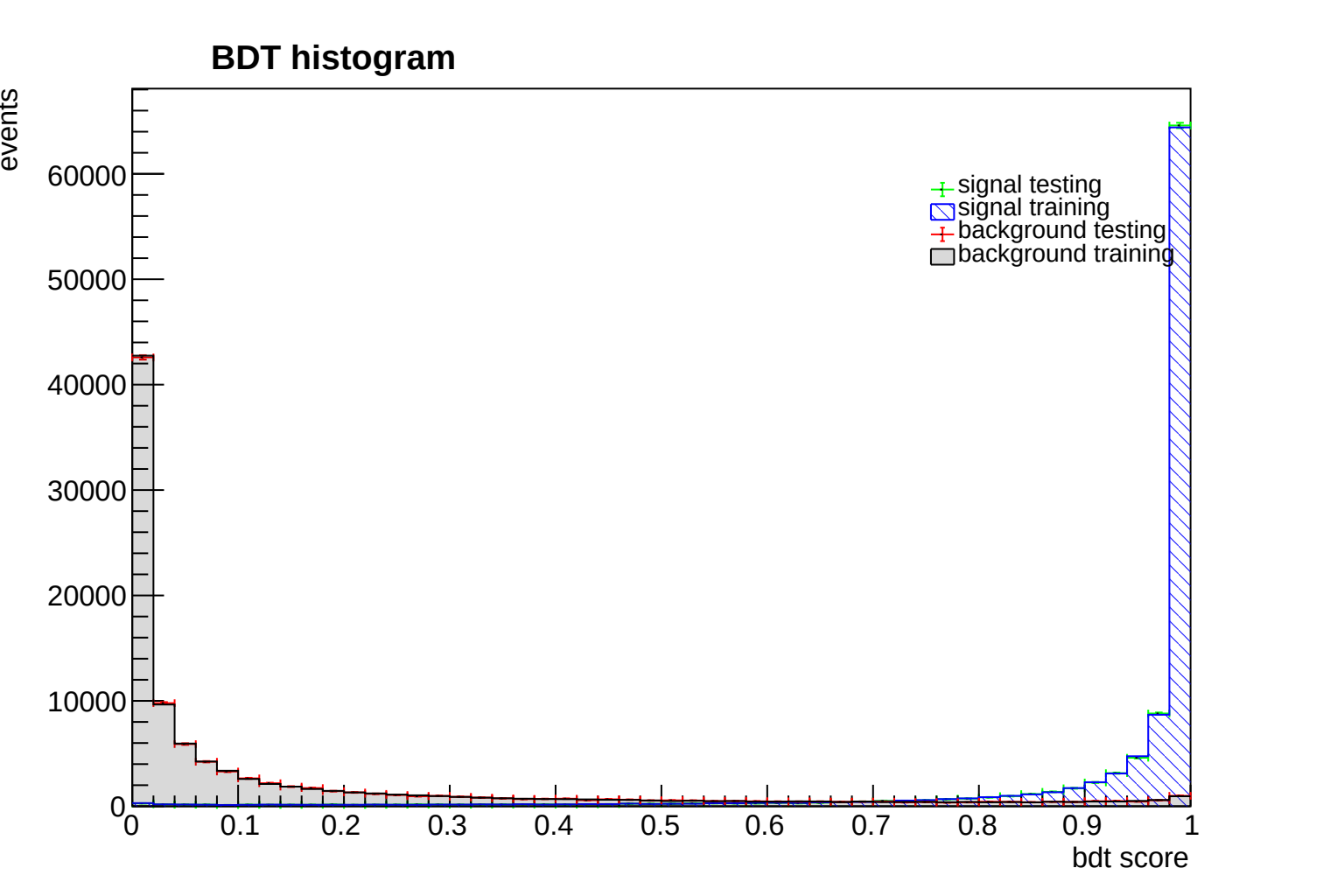
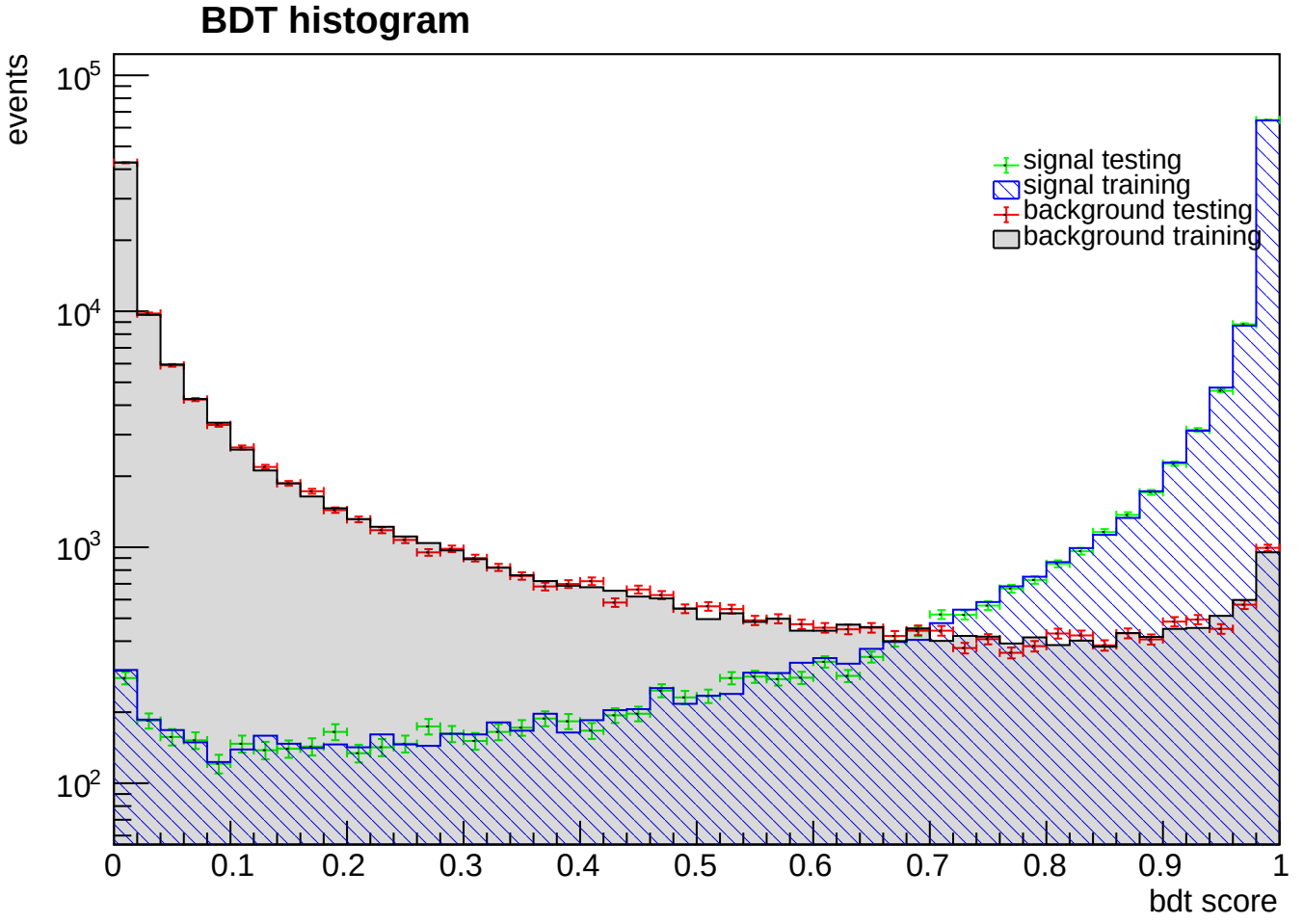
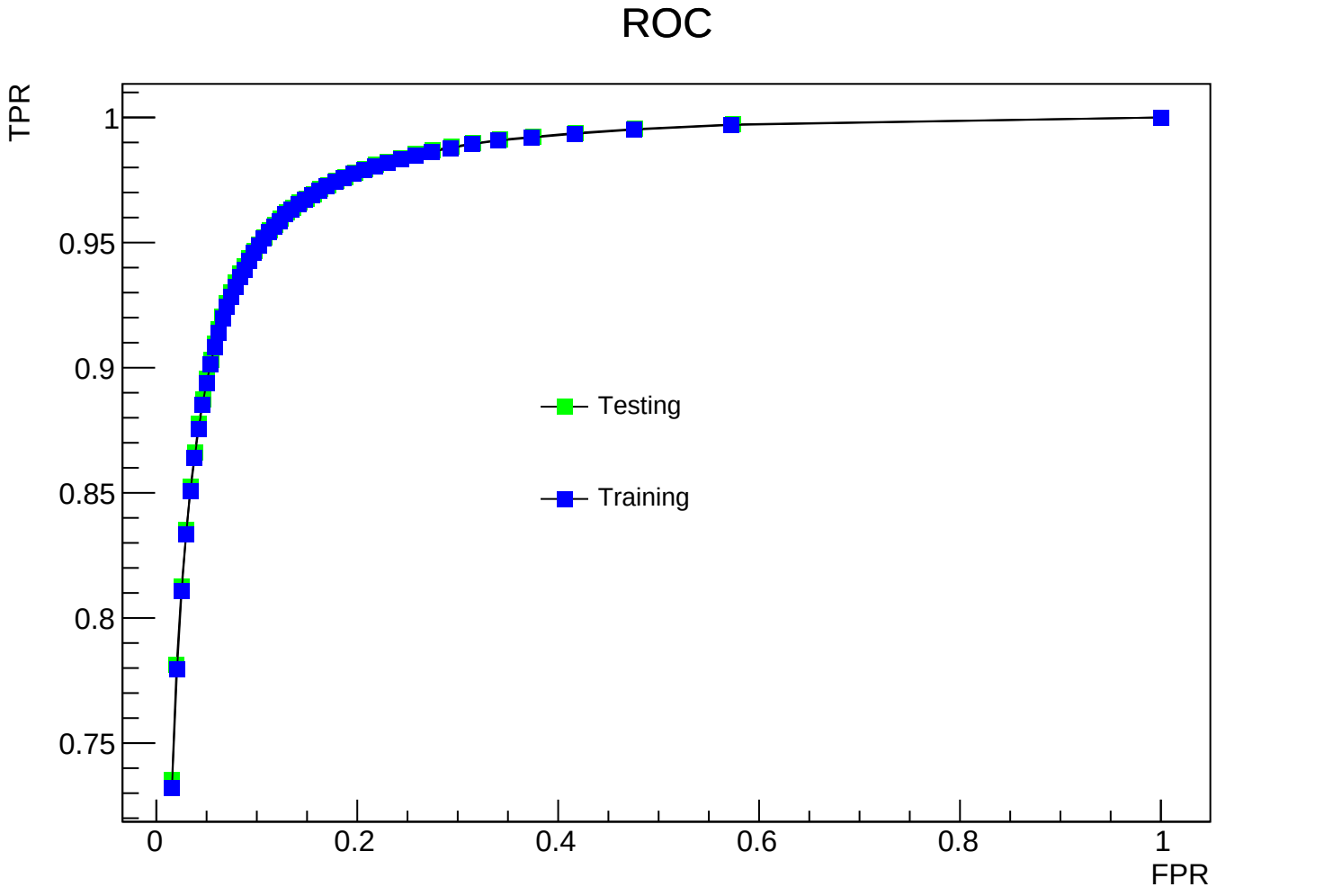
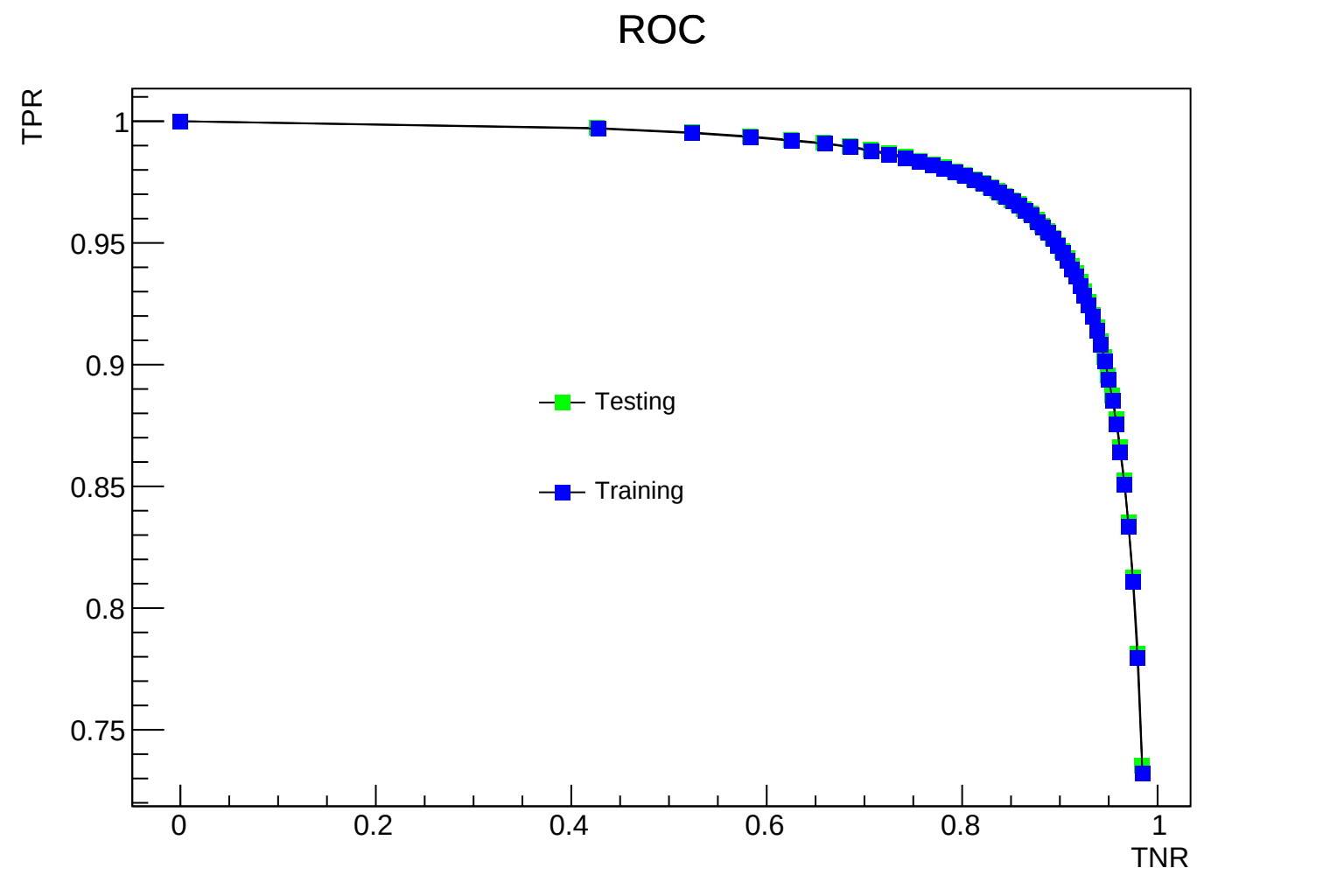
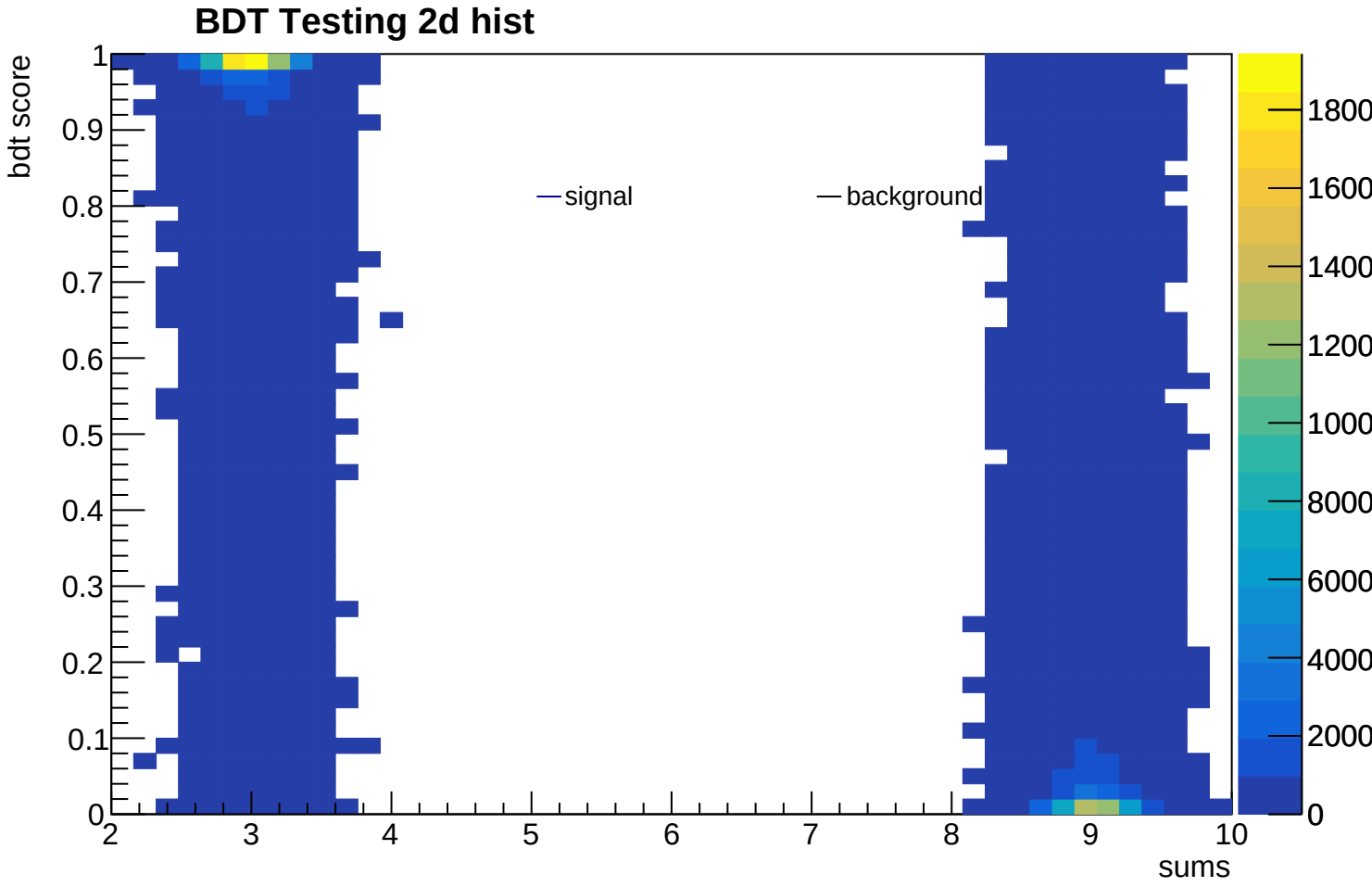

BDT histogram
events
60000
50000
40000
30000
20000
10000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
bdt score
signal testing
signal training
background testing
background training


BDT histogram
events
10^5
10^4
10^3
10^2
signal testing
signal training
background testing
background training
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
bdt score


ROC
TPR
1
0.95
0.9
0.85
0.8
0.75
0
0.2
0.4
0.6
0.8
1
FPR
Testing
Training


ROC
TPR
1
0.95
0.9
0.85
0.8
0.75
0
0.2
0.4
0.6
0.8
1
TNR
Testing
Training

Training/Testing ratios
Ratio
1.15
1.1
1.05
1
0.95
0.9
0.85
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
bdt score
signal
background


BDT Testing 2d hist
bdt score
sums
signal
background
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
2
3
4
5
6
7
8
9
10
1800
1600
1400
1200
1000
8000
6000
4000
2000
0