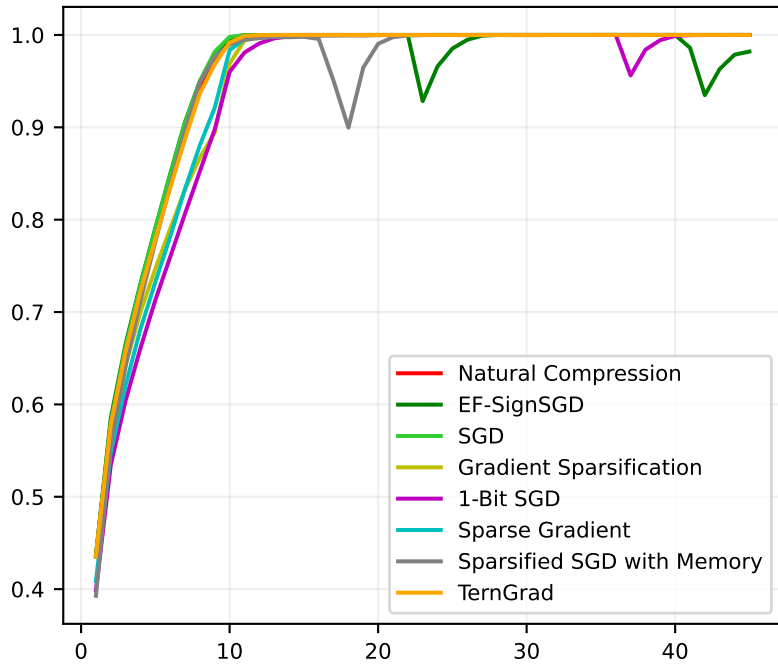
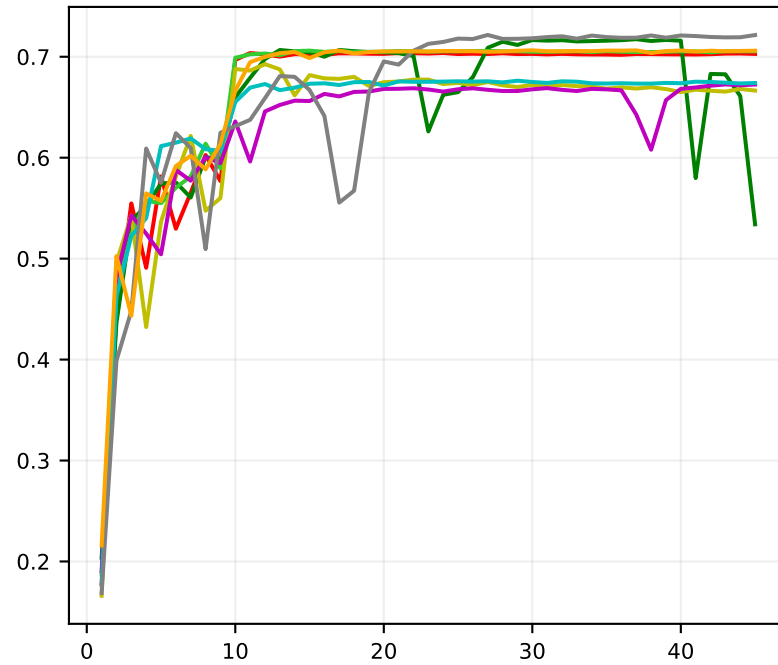


BASELINE_RESNET

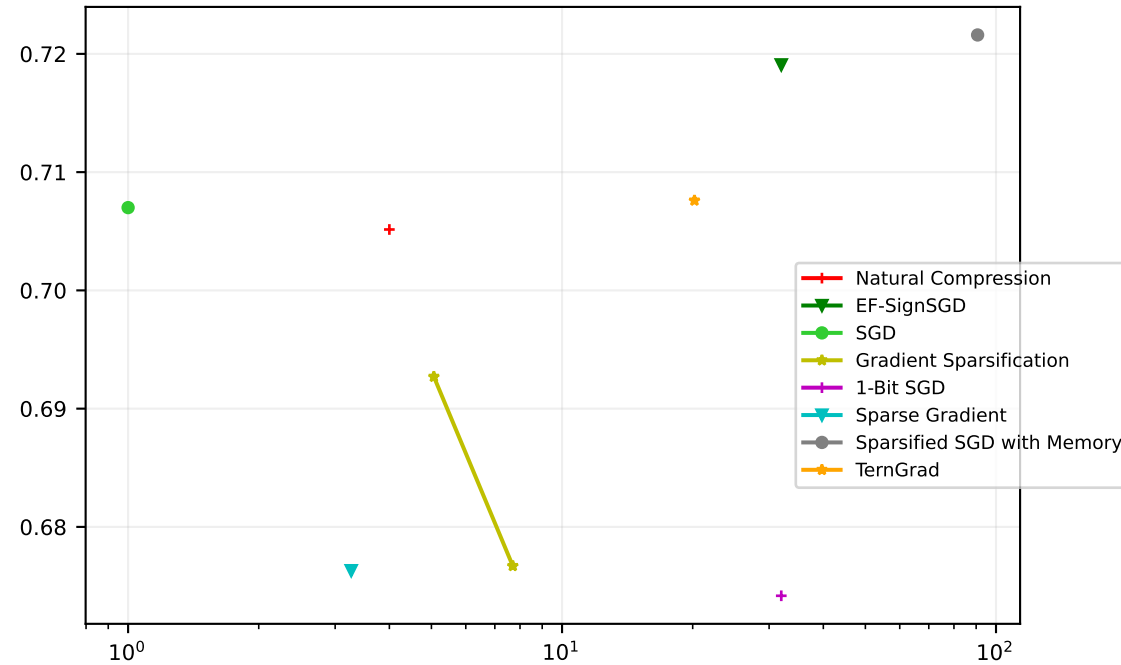
Training Accuracy



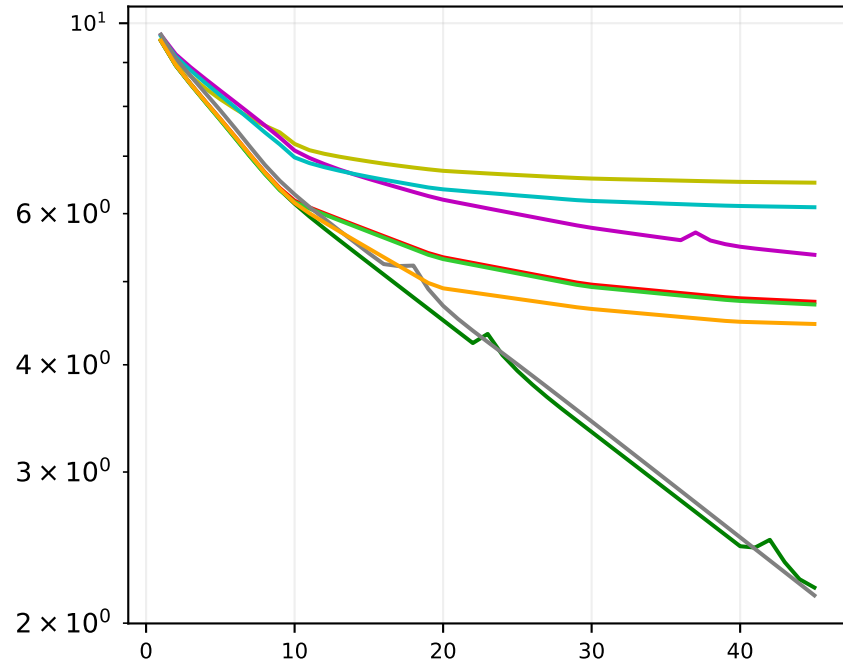
Test Accuracy



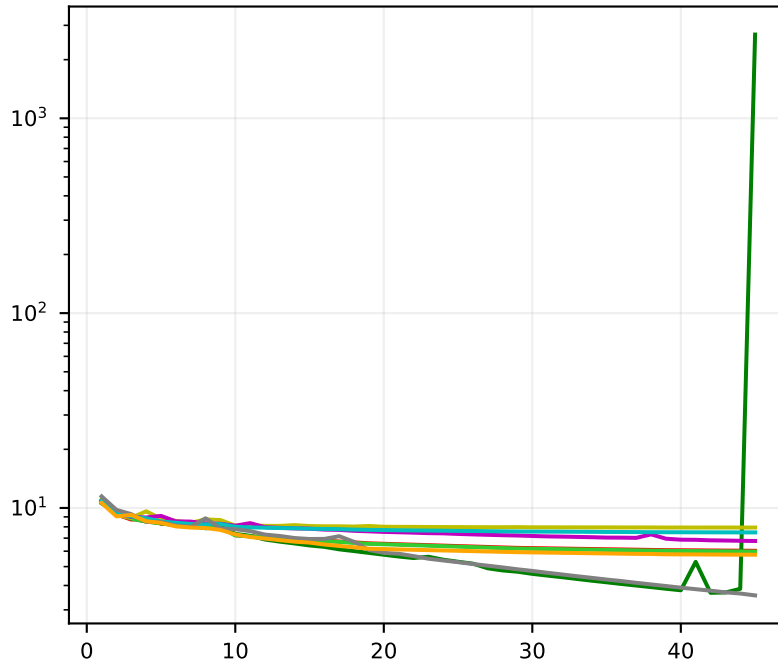
Test Accuracy vs Overall Compression



Training Loss



Test Loss



Method	Test Acc	Compression Ratio
Sparsified SGD with Memory	72.16	90.7
EF-SignSGD	71.91	32.0
TernGrad	70.76	20.2
SGD	70.7	1.0
Natural Compression	70.52	4.0
Gradient Sparsification	69.27	5.1
Sparse Gradient	67.63	3.3
1-Bit SGD	67.42	32.0