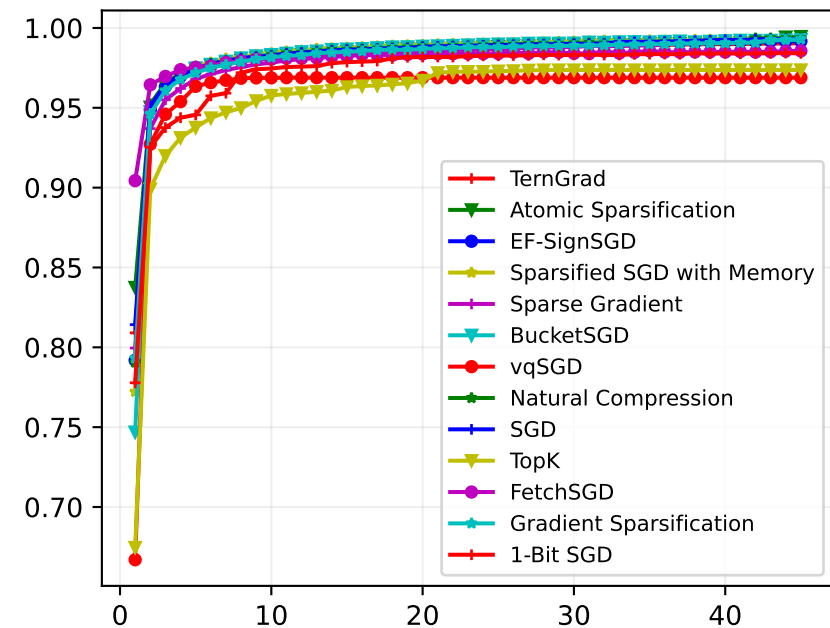
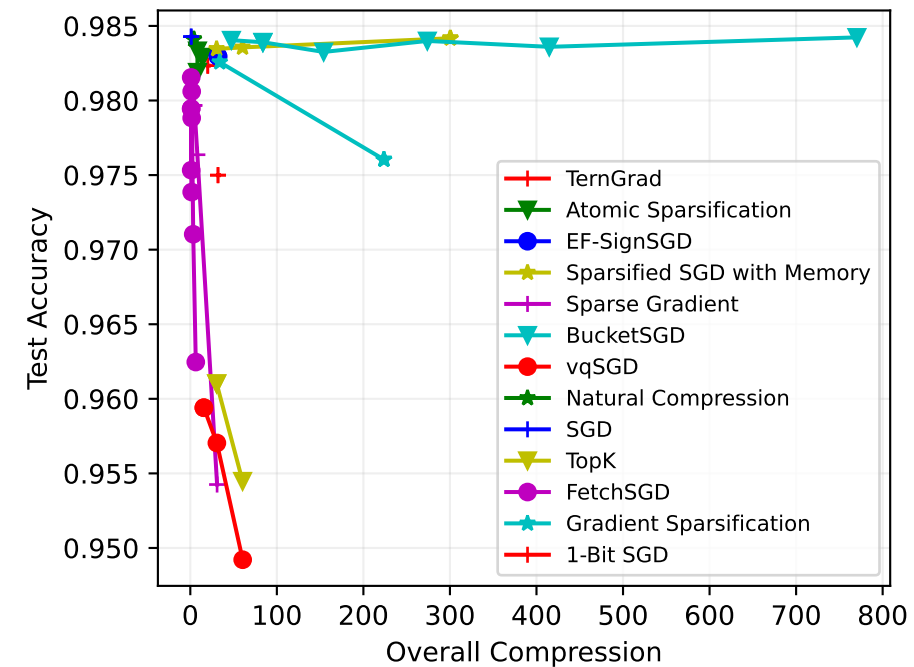
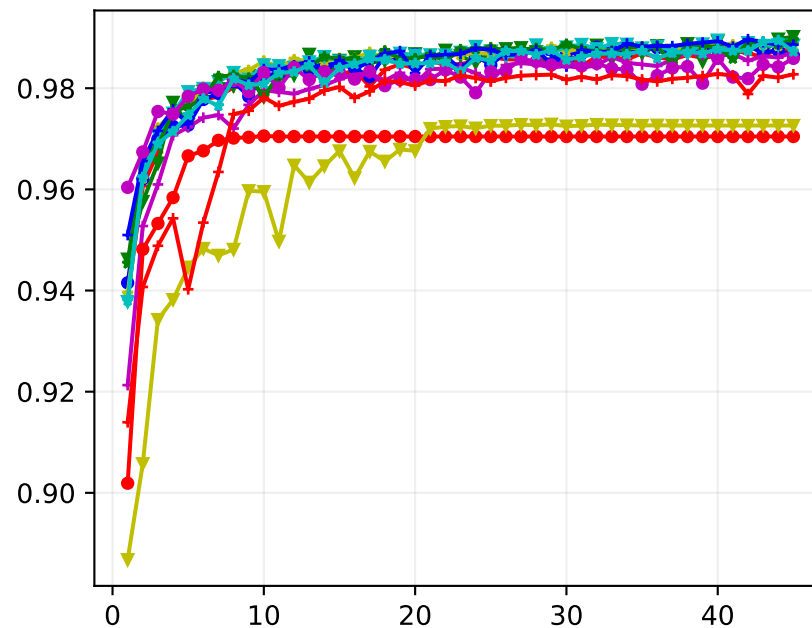


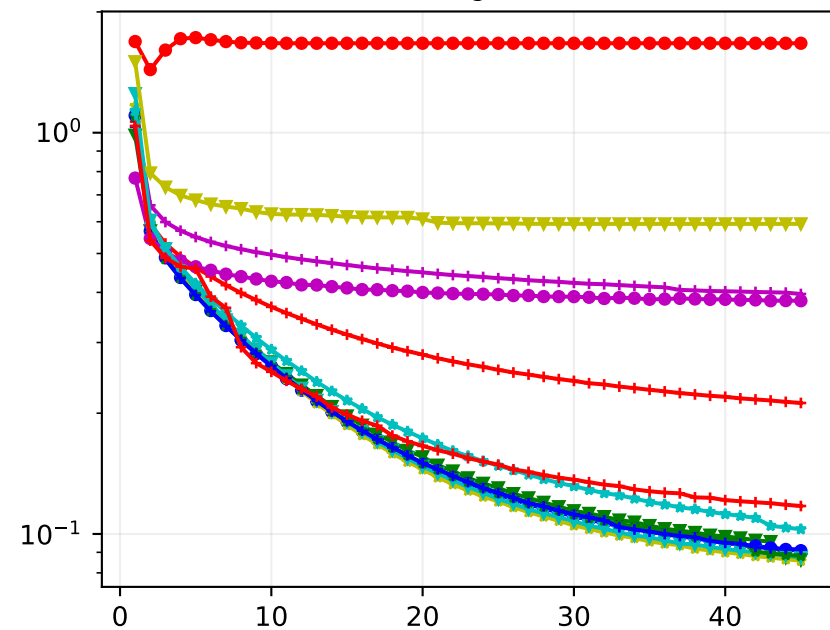
Training Accuracy



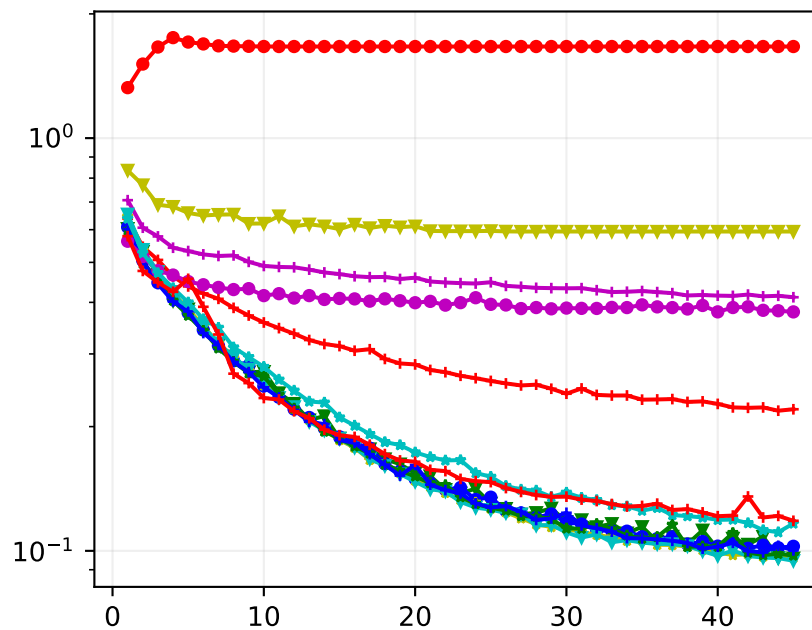
Test Accuracy



Training Loss



Test Loss



Method	Mean Test Acc	Compression Ratio
SGD	98.428	1.0
BucketSGD	98.423	770.24
Sparsified SGD with Memory	98.417	300.47
Natural Compression	98.411	4.0
Atomic Sparsification	98.333	8.26
EF-SignSGD	98.296	32.0
Gradient Sparsification	98.257	33.99
TernGrad	98.234	20.19
FetchSGD	98.155	1.02
Sparse Gradient	97.967	4.61
1-Bit SGD	97.5	32.0
TopK	96.102	30.49
vqSGD	95.94	15.65