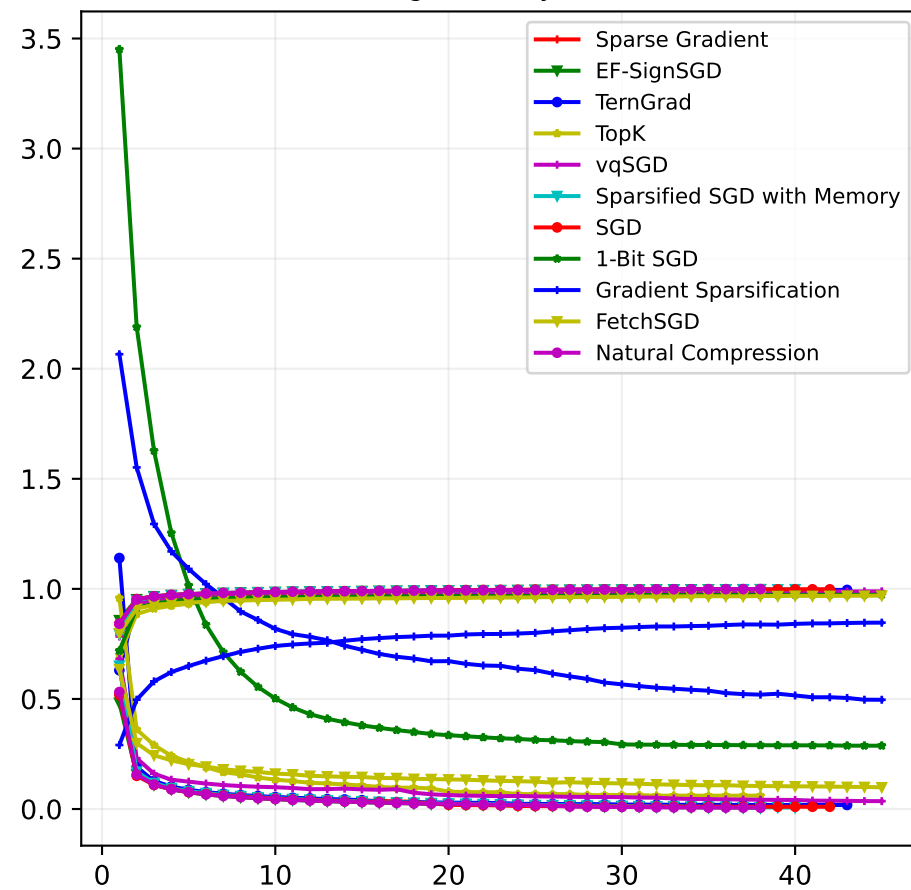
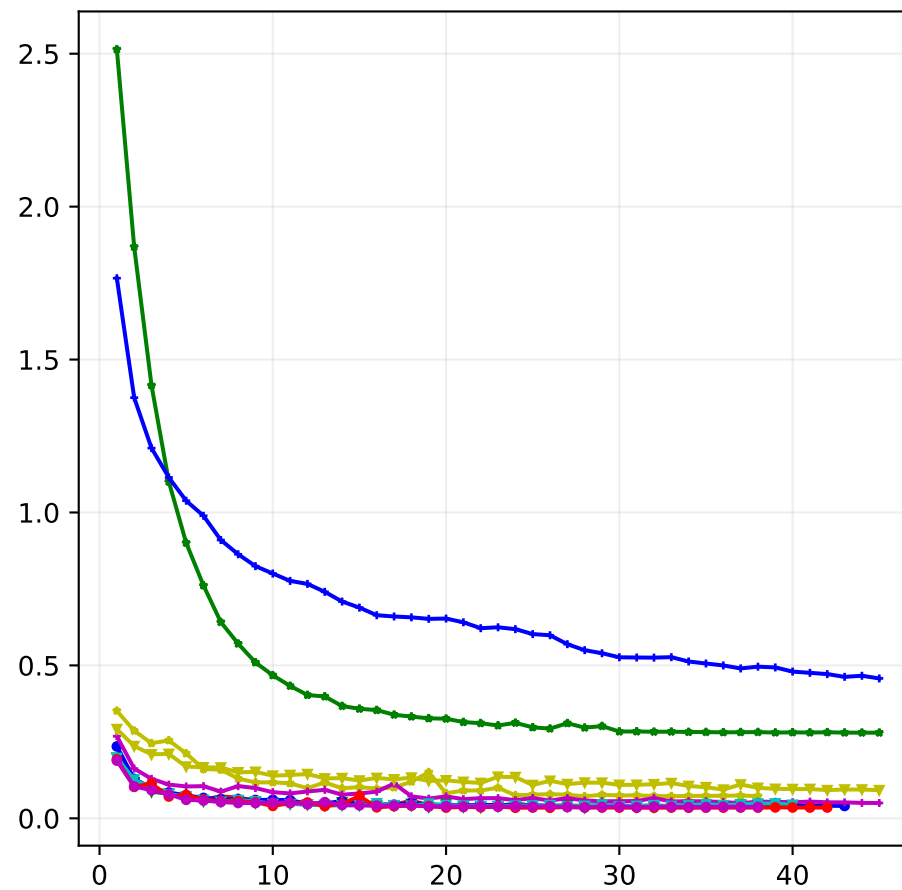


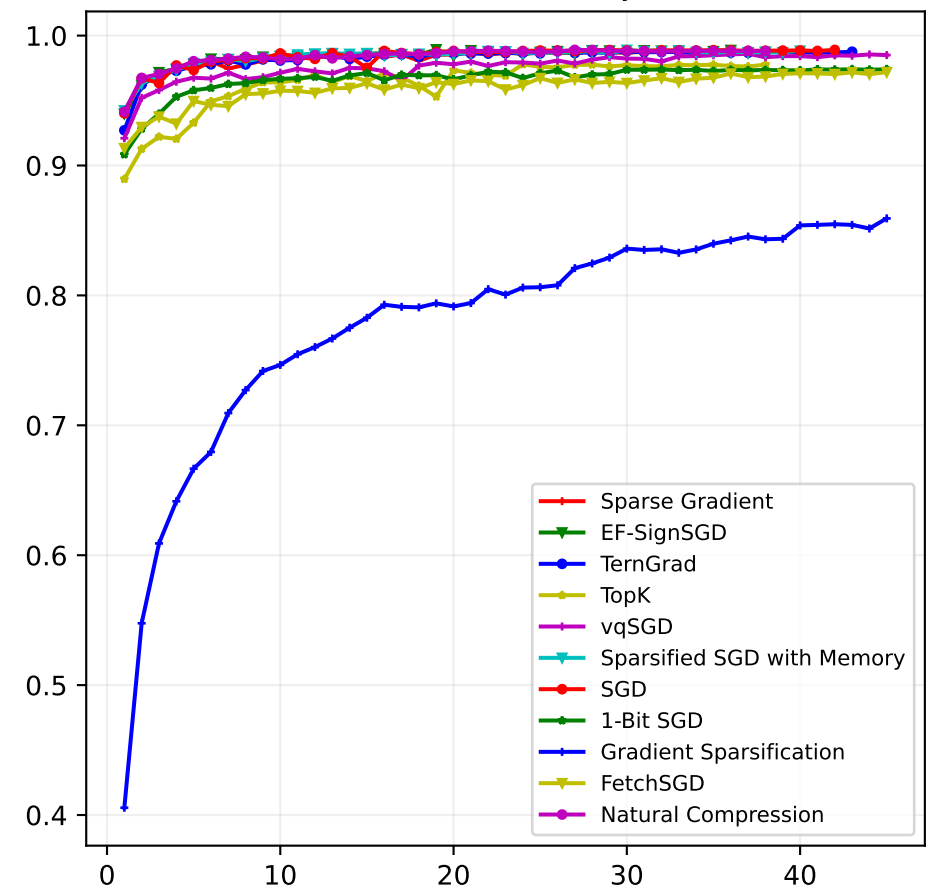
Training Accuracy and Loss



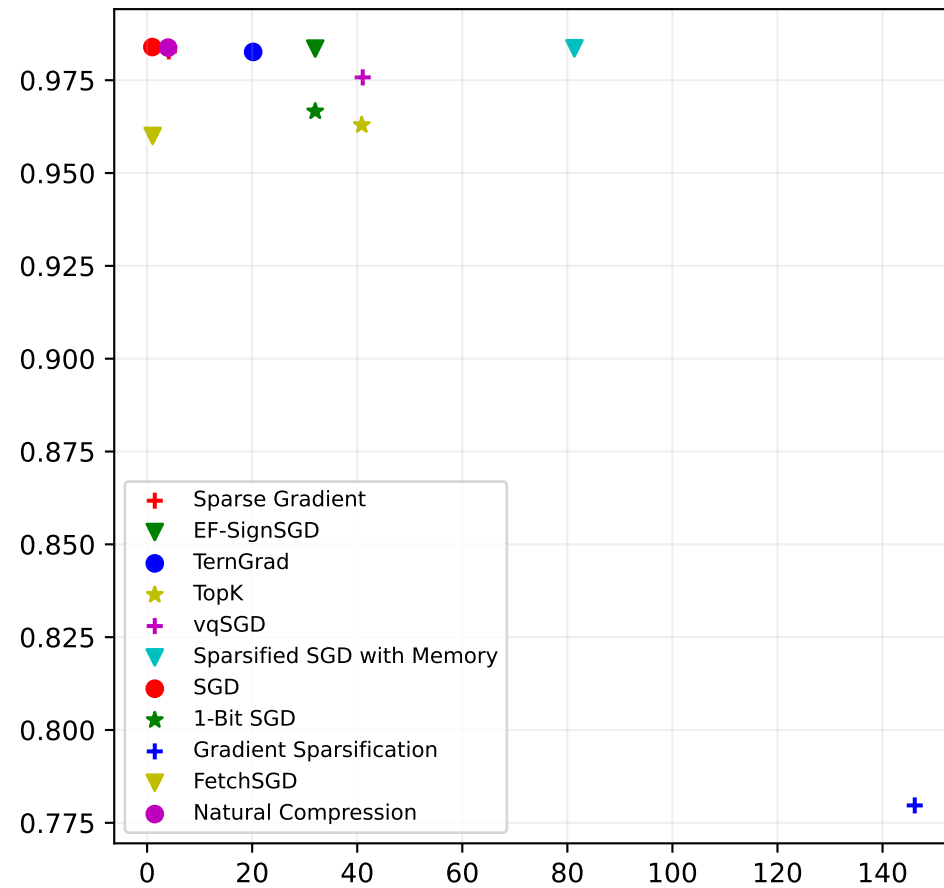
Validation Loss



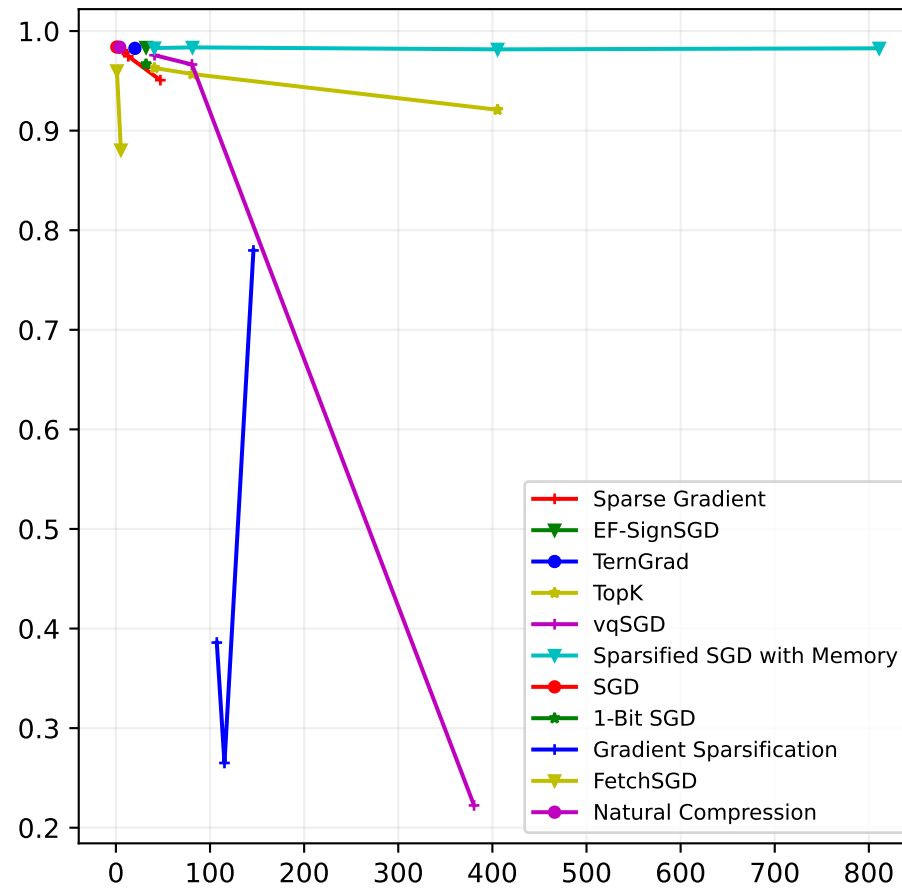
Validation Accuracy



Max Validation Acc / Compression Rate



Validation Acc / Compression Rate



Method	Mean Val Acc	Compression Ratio
SGD	98.39	1
Natural Compression	98.38	4.0
Sparsified SGD with Memory	98.36	81.34
EF-SignSGD	98.35	32.0
Sparse Gradient	98.28	4.14
TernGrad	98.26	20.19
vqSGD	97.58	41.05
1-Bit SGD	96.66	32.0
TopK	96.29	40.87
FetchSGD	96.0	1.06
Gradient Sparsification	77.97	146.13