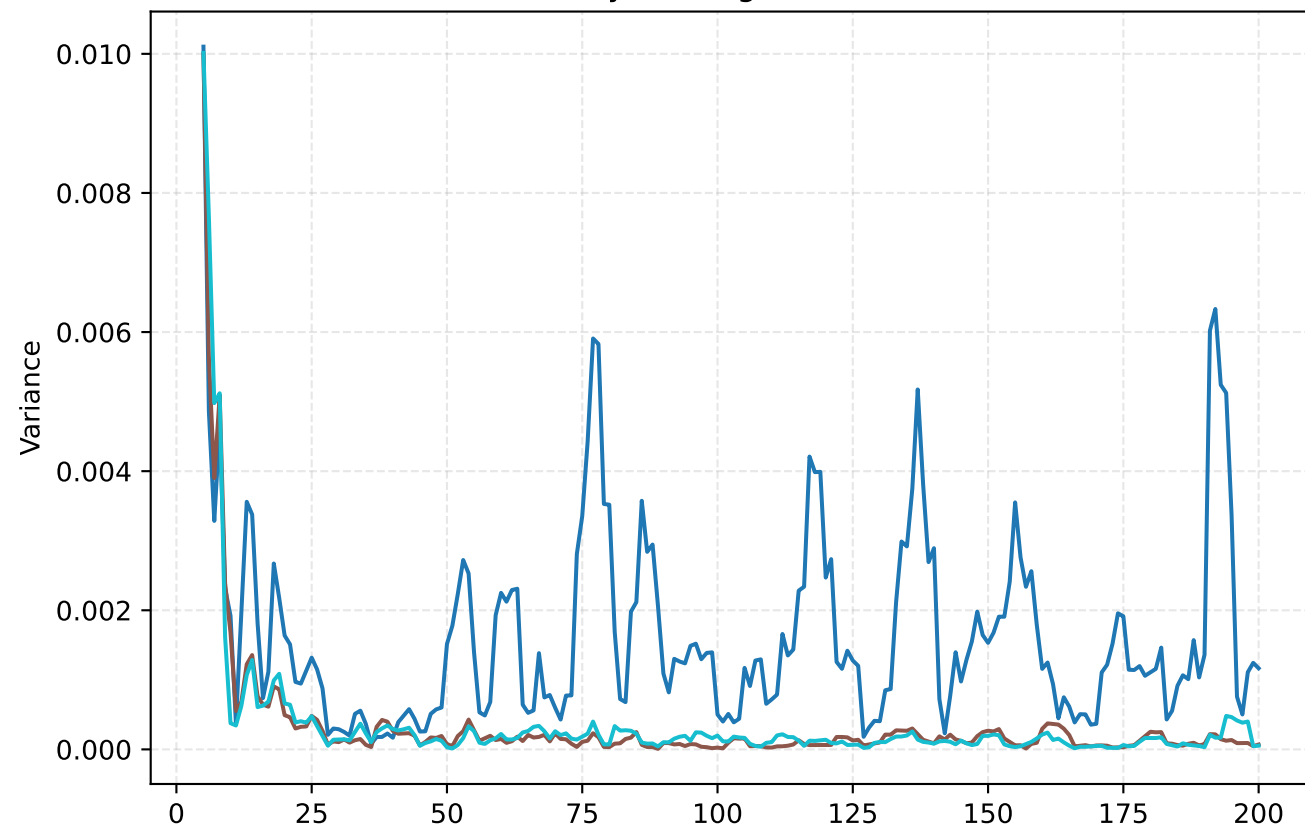
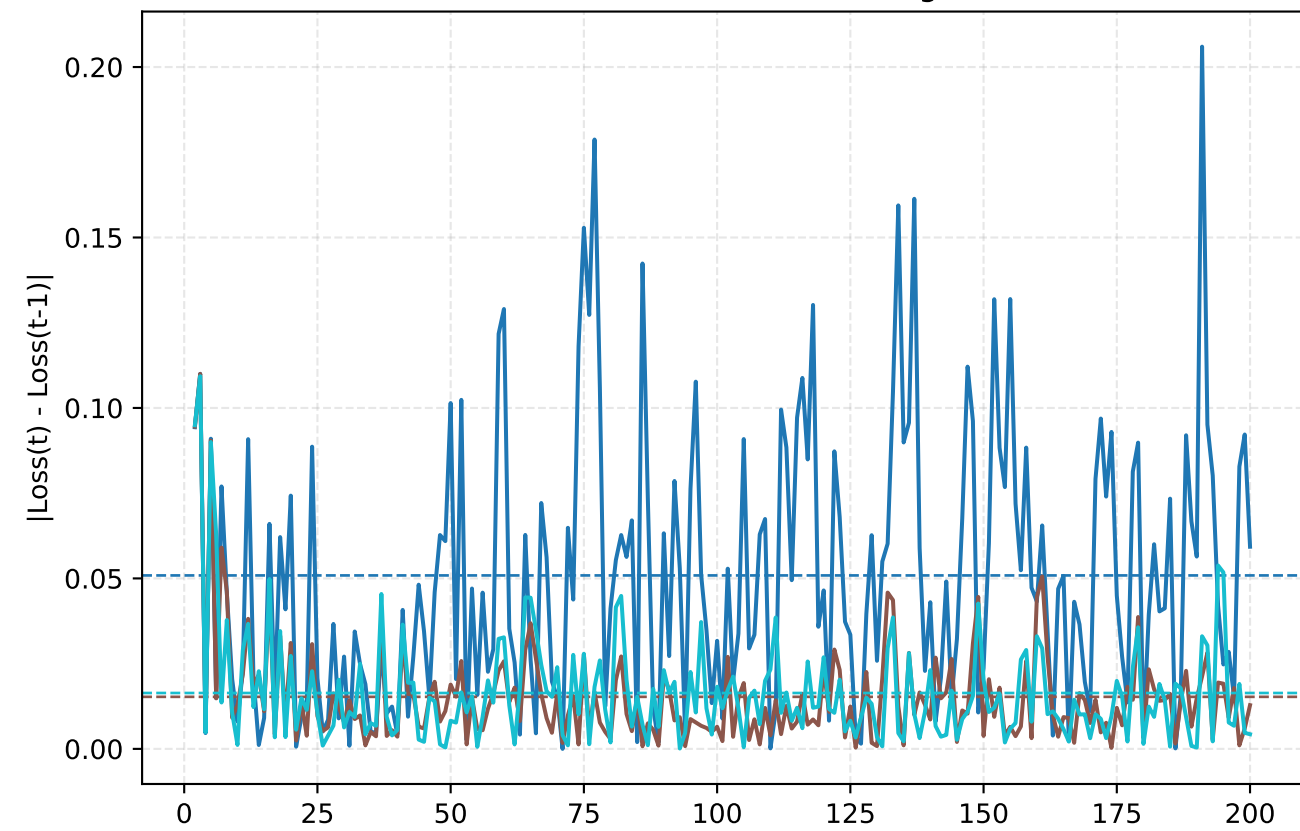


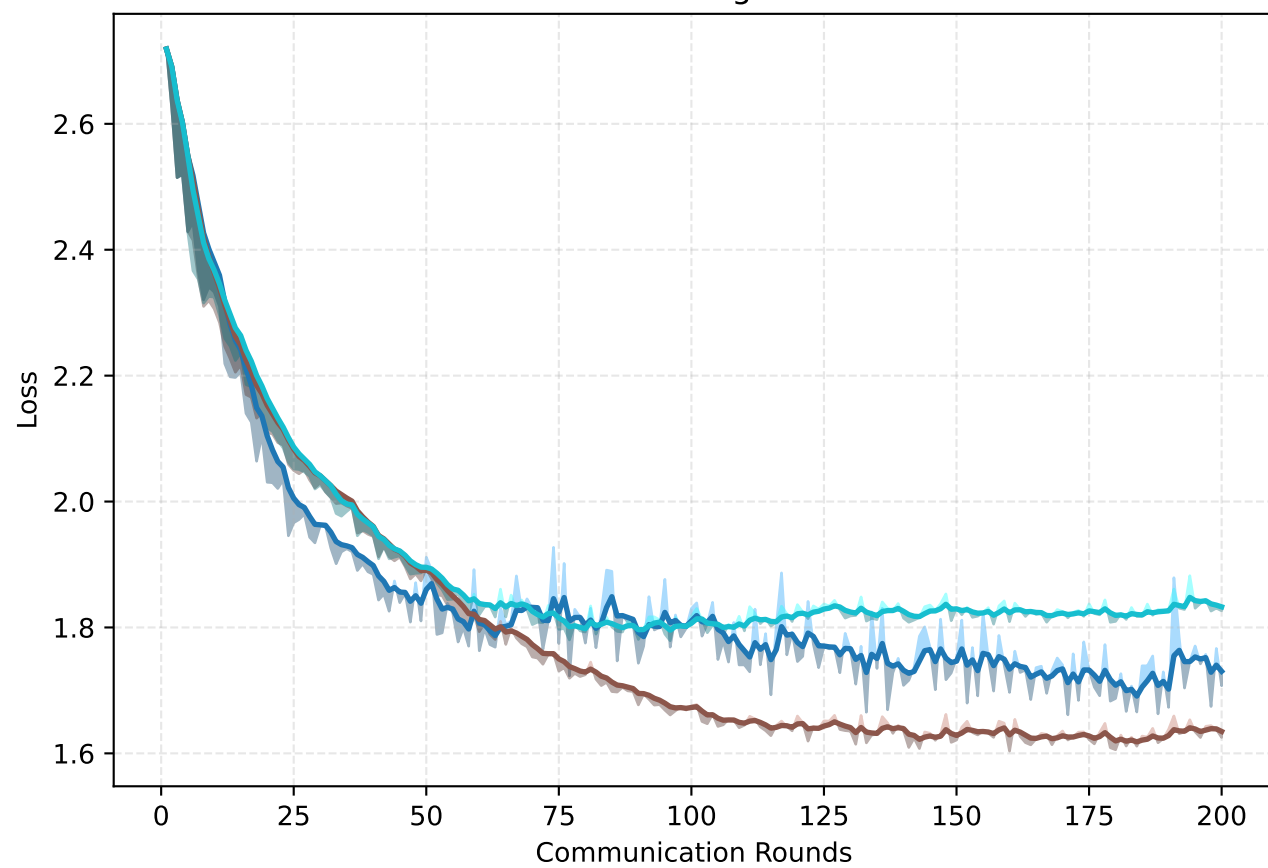
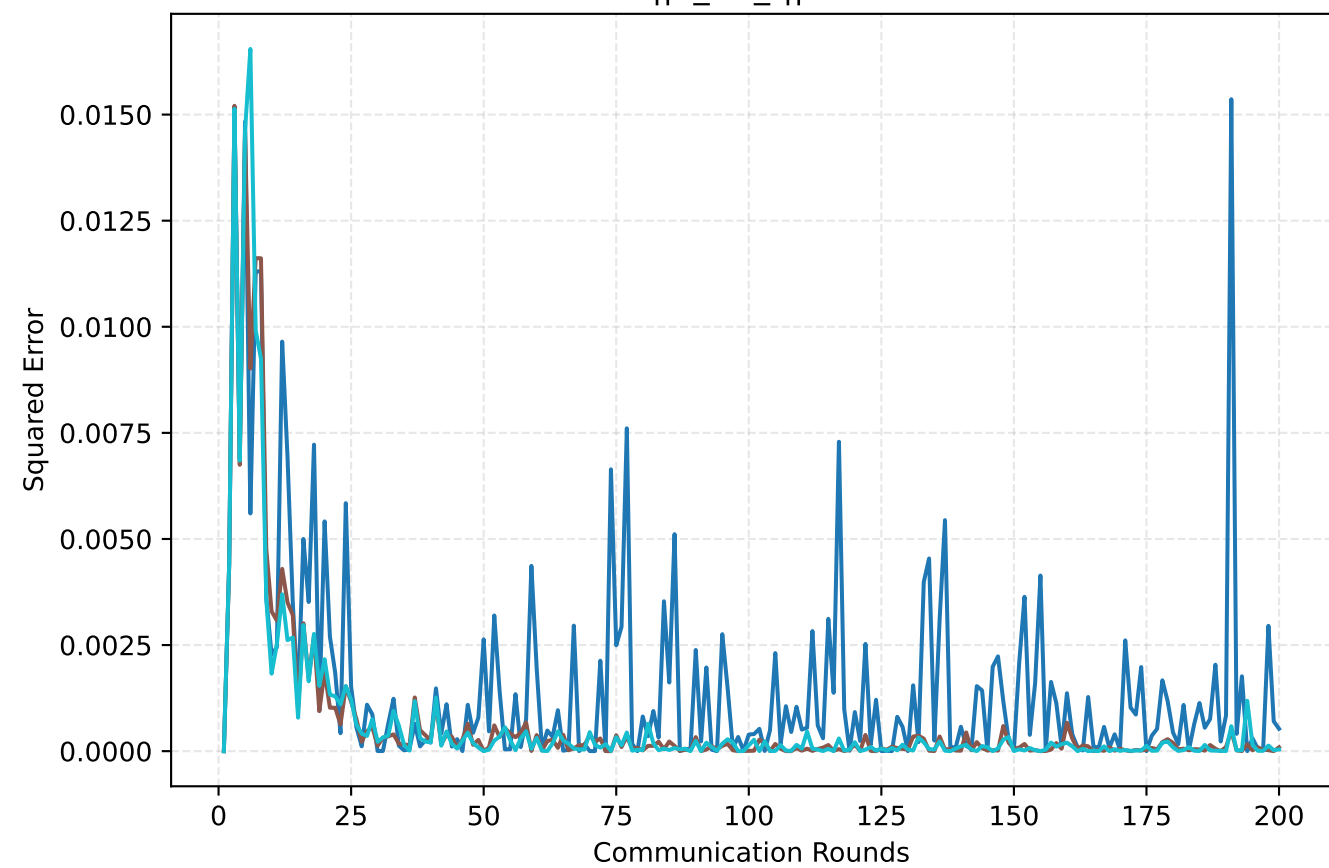
Loss Volatility (Rolling Window Variance)



Round-to-Round Loss Change



Smoothed Convergence Trends

 $\|S_t - X_t\|^2$ 

FedMR  
CV=0.098

FedKDMR  
CV=0.126

FedCodi  
CV=0.087