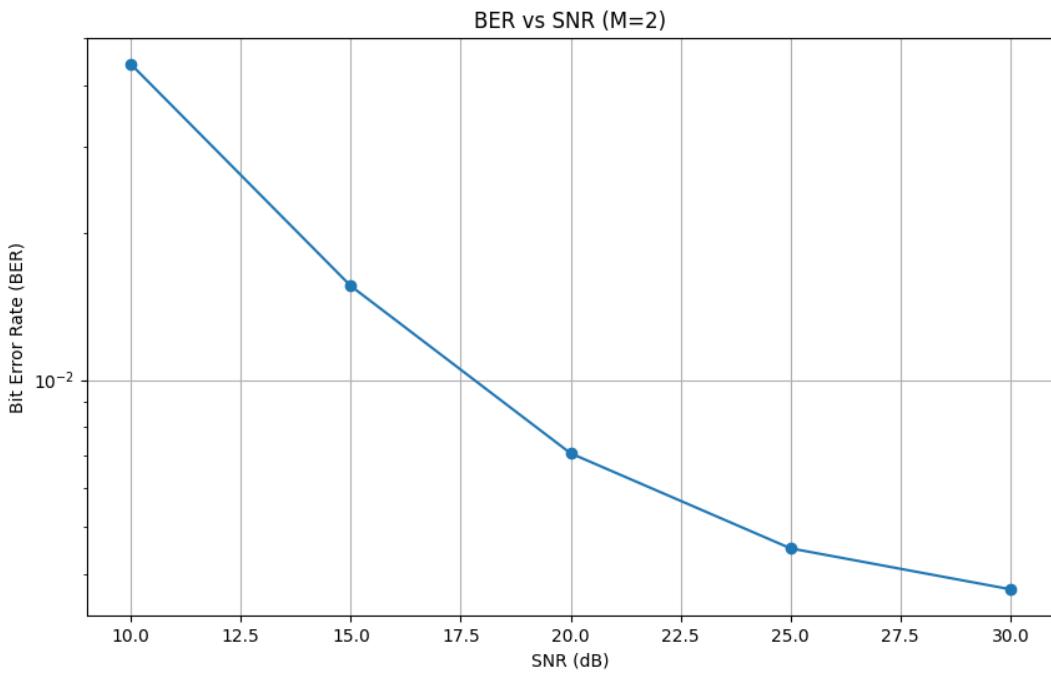
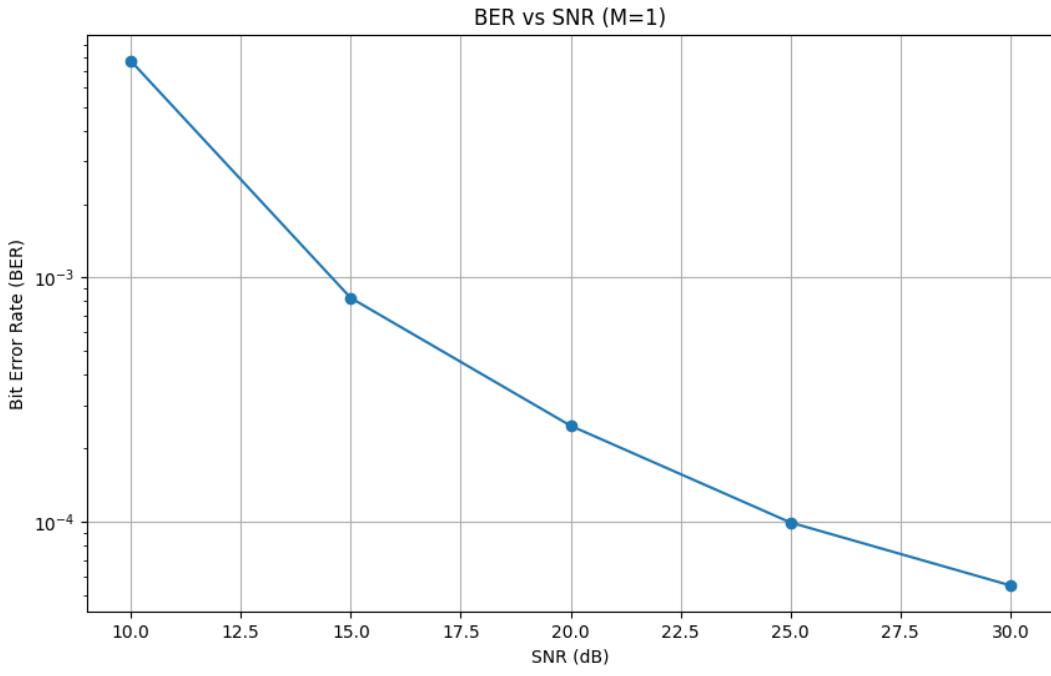
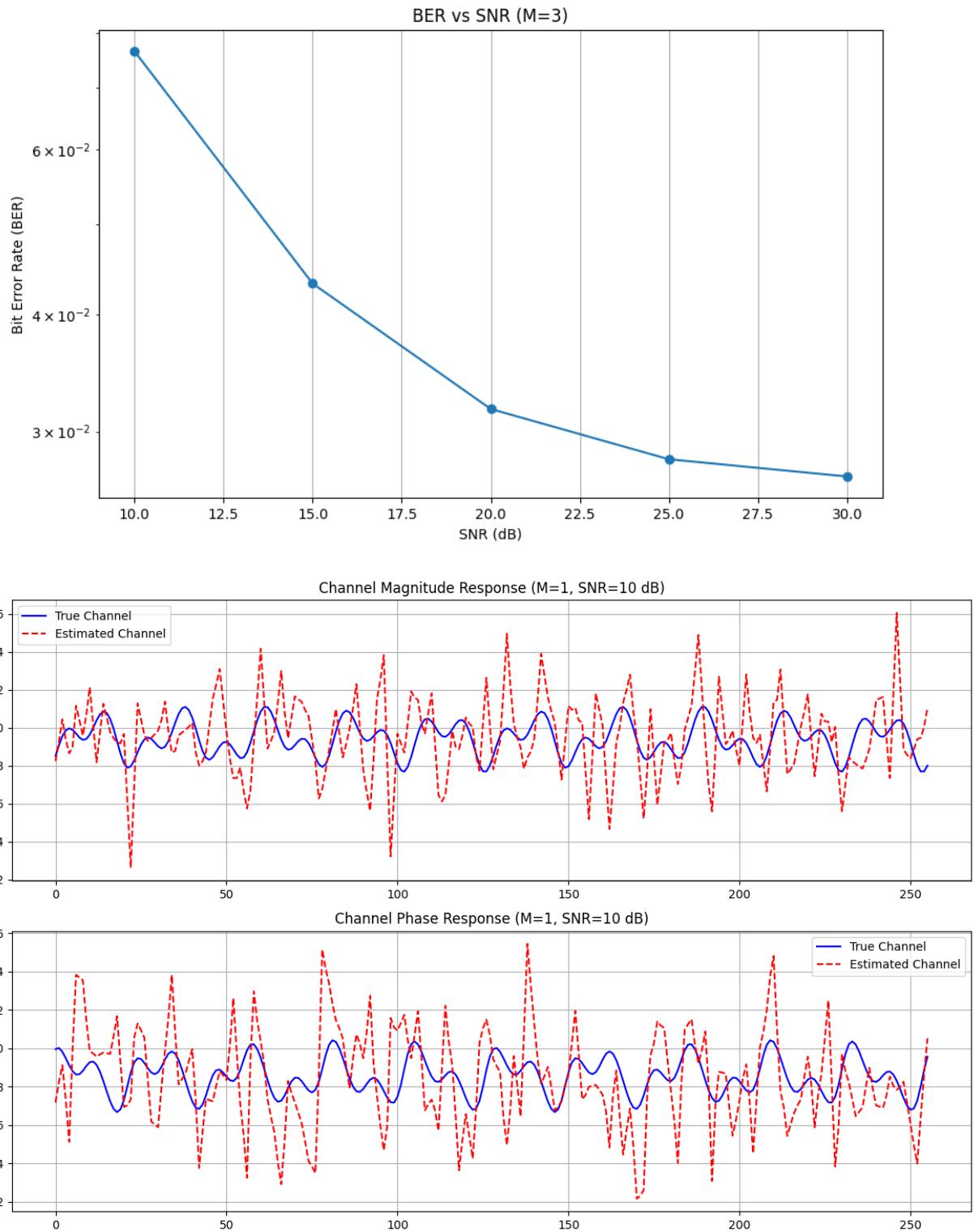


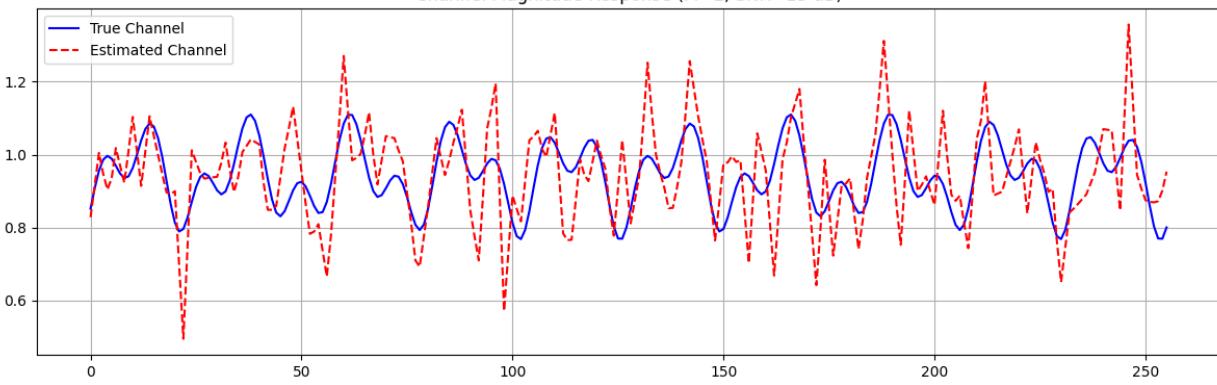
## RESULTS :

NPs = 2 (pilot spacing)

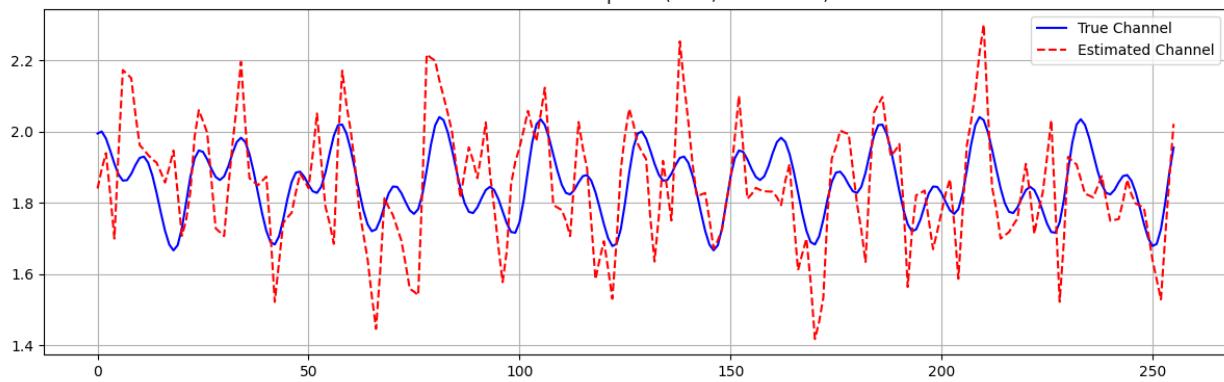




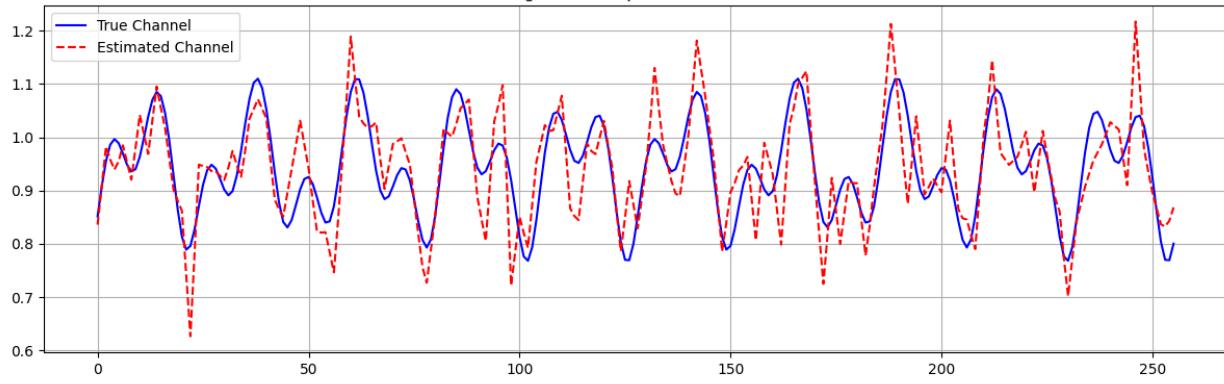
Channel Magnitude Response (M=1, SNR=15 dB)



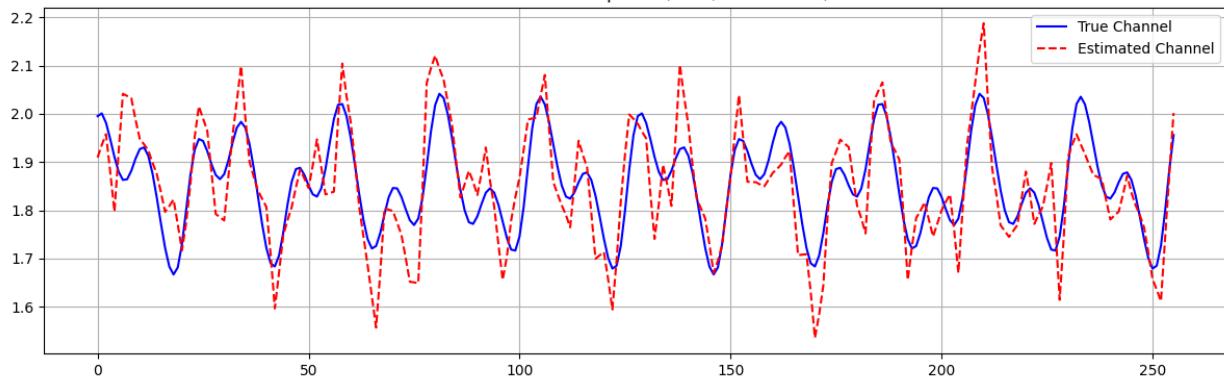
Channel Phase Response (M=1, SNR=15 dB)



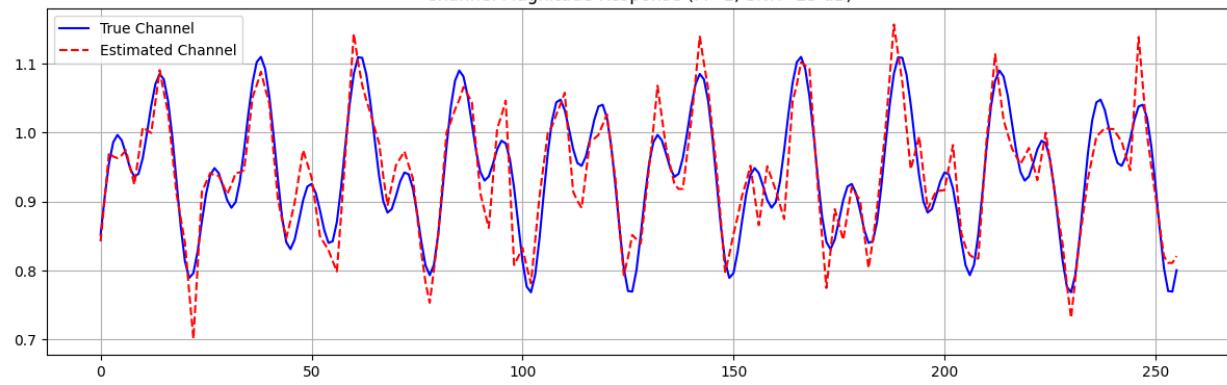
Channel Magnitude Response (M=1, SNR=20 dB)



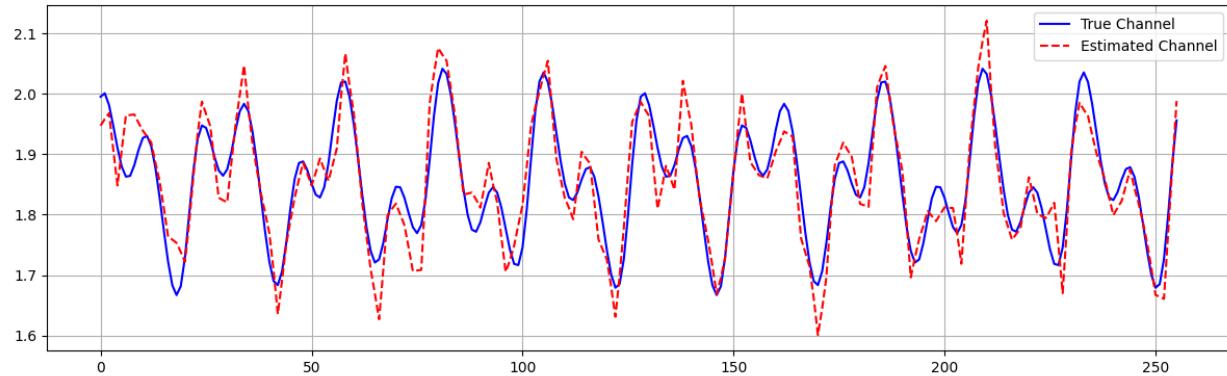
Channel Phase Response (M=1, SNR=20 dB)



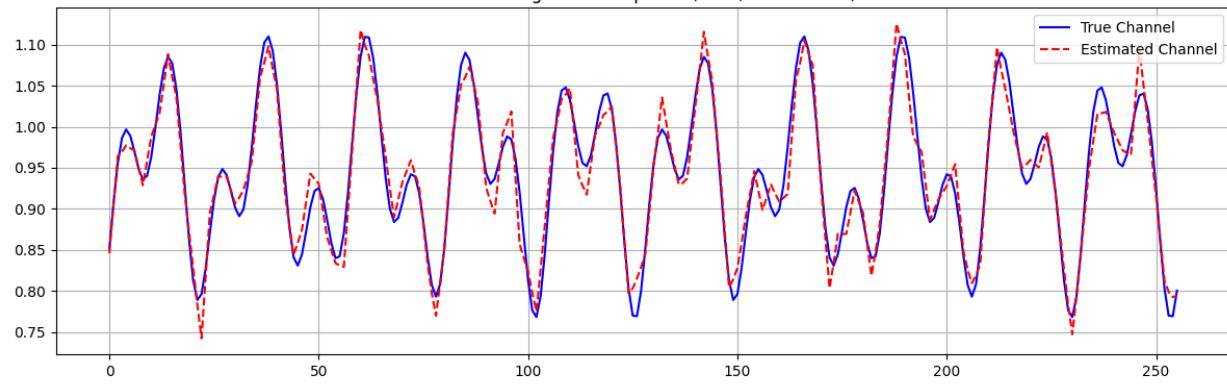
Channel Magnitude Response (M=1, SNR=25 dB)



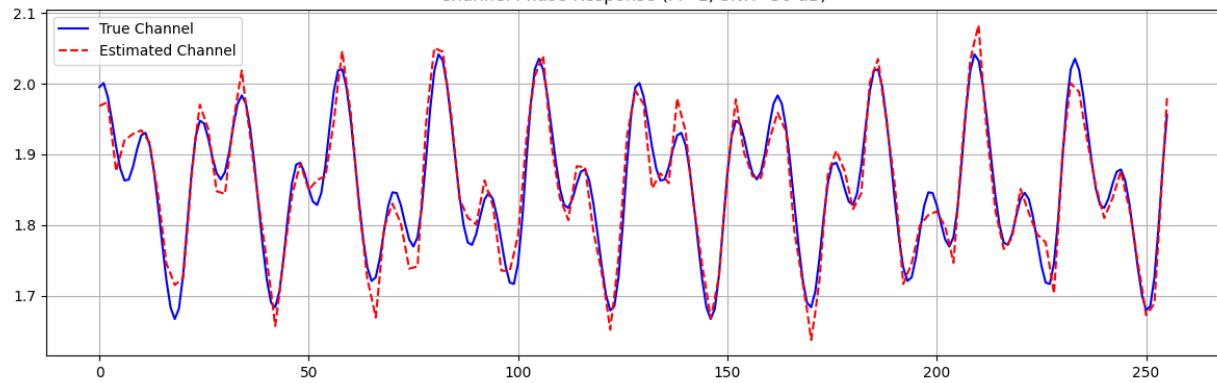
Channel Phase Response (M=1, SNR=25 dB)

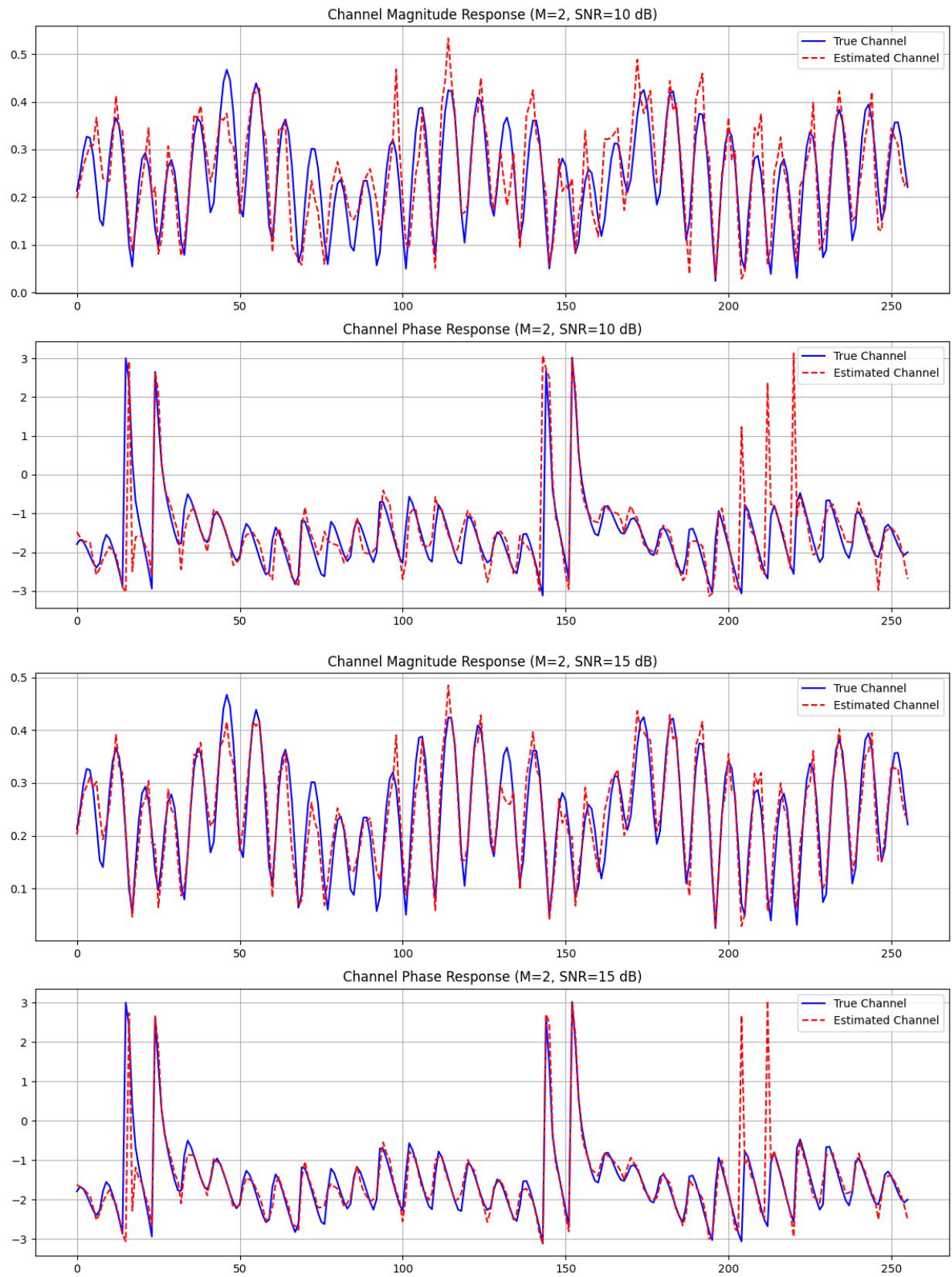


Channel Magnitude Response (M=1, SNR=30 dB)

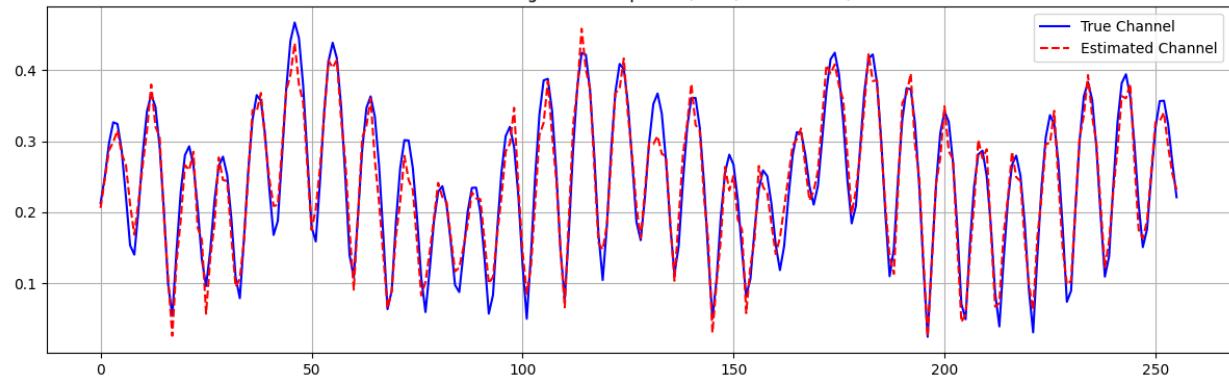


Channel Phase Response (M=1, SNR=30 dB)

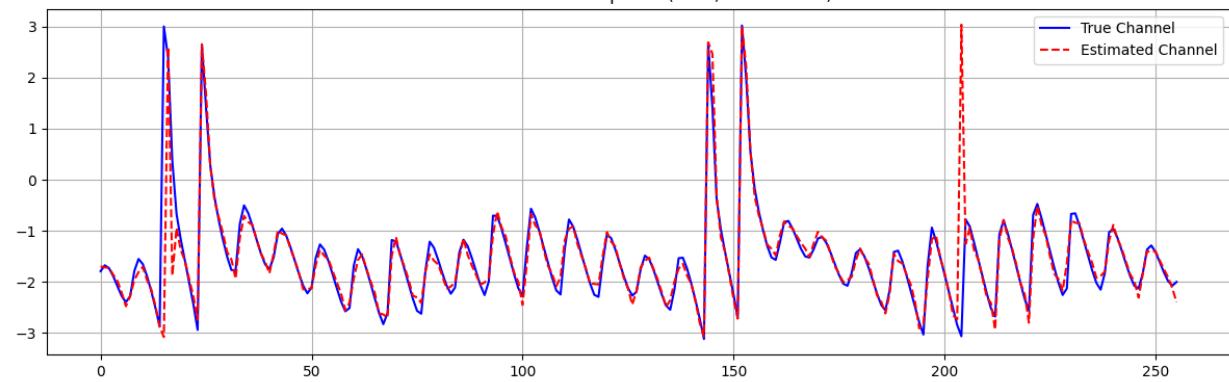




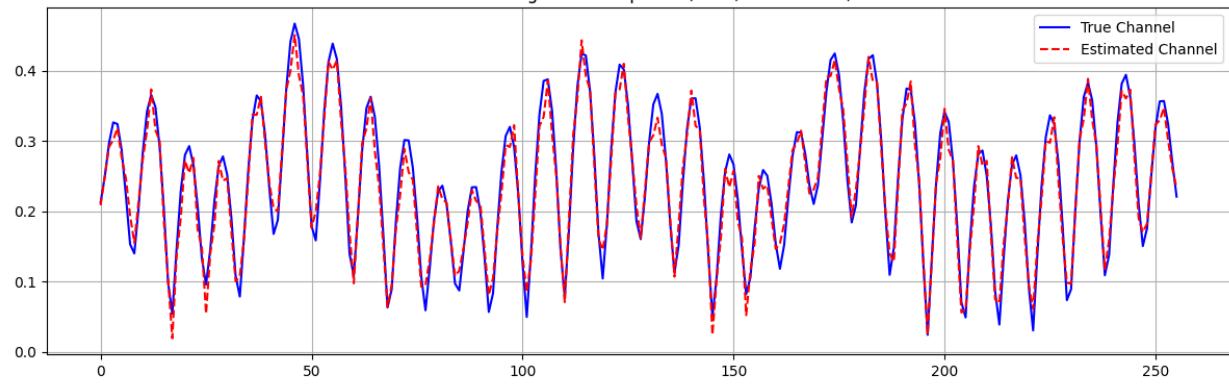
Channel Magnitude Response (M=2, SNR=20 dB)



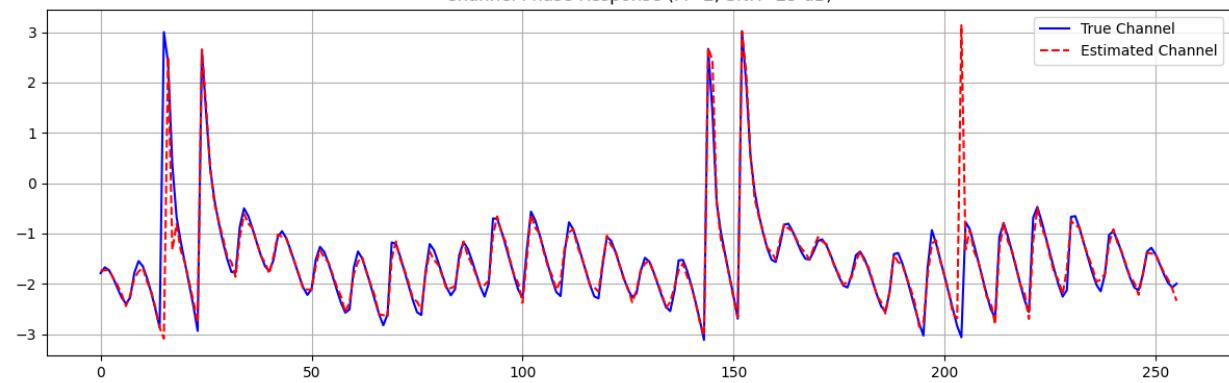
Channel Phase Response (M=2, SNR=20 dB)



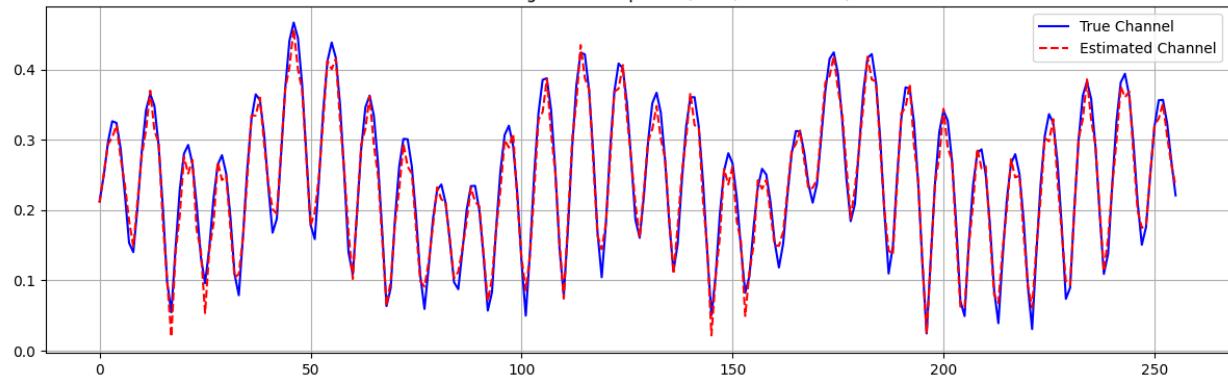
Channel Magnitude Response (M=2, SNR=25 dB)



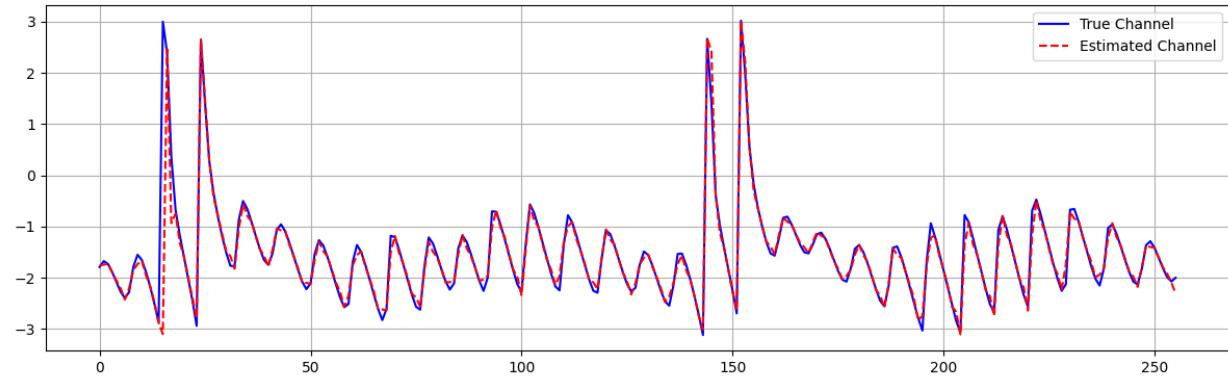
Channel Phase Response (M=2, SNR=25 dB)



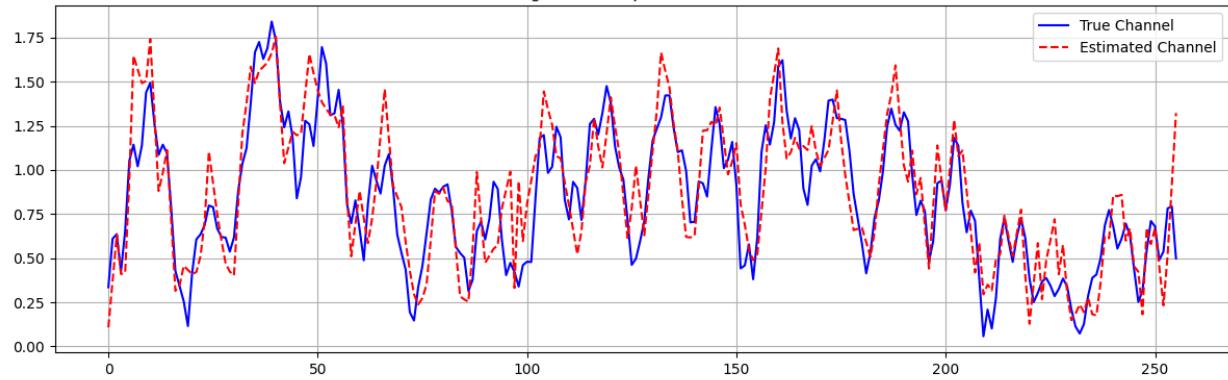
Channel Magnitude Response (M=2, SNR=30 dB)



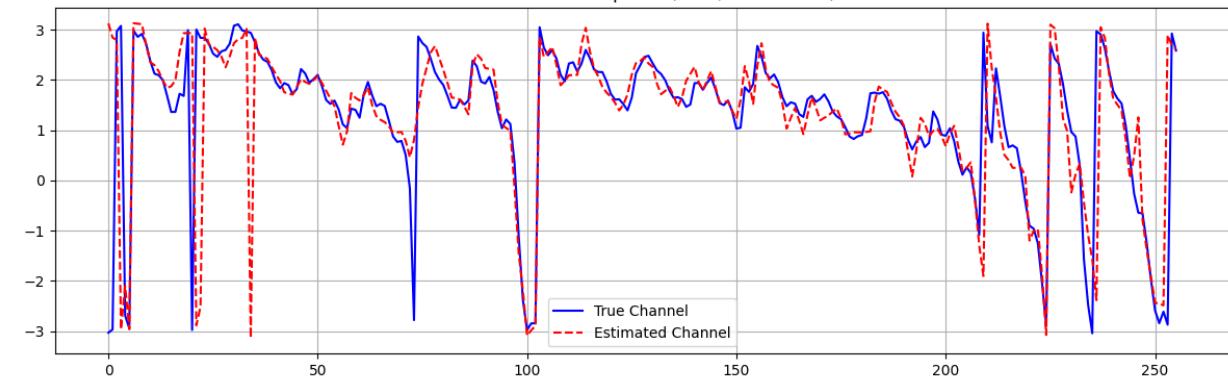
Channel Phase Response (M=2, SNR=30 dB)



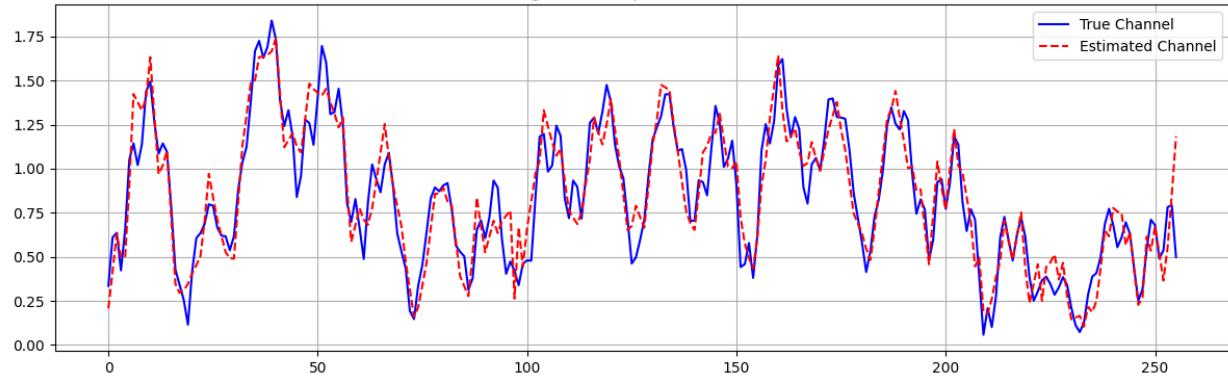
Channel Magnitude Response (M=3, SNR=10 dB)



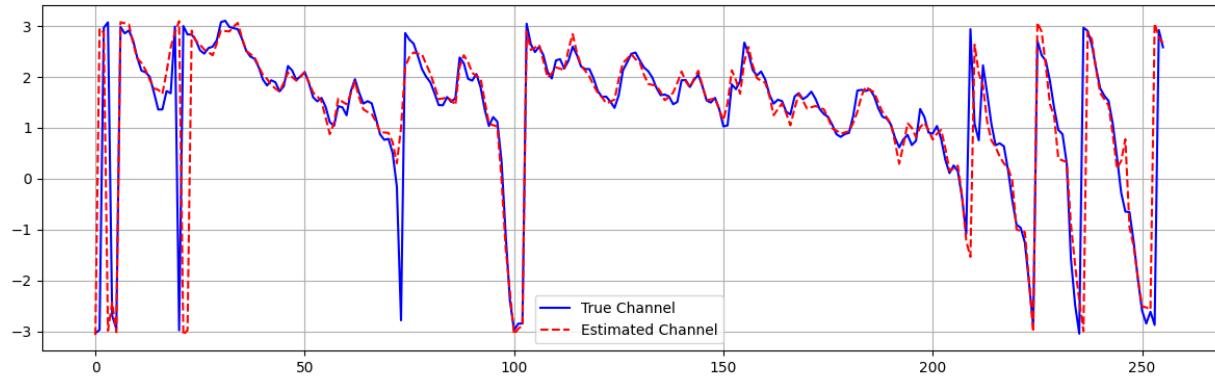
Channel Phase Response (M=3, SNR=10 dB)



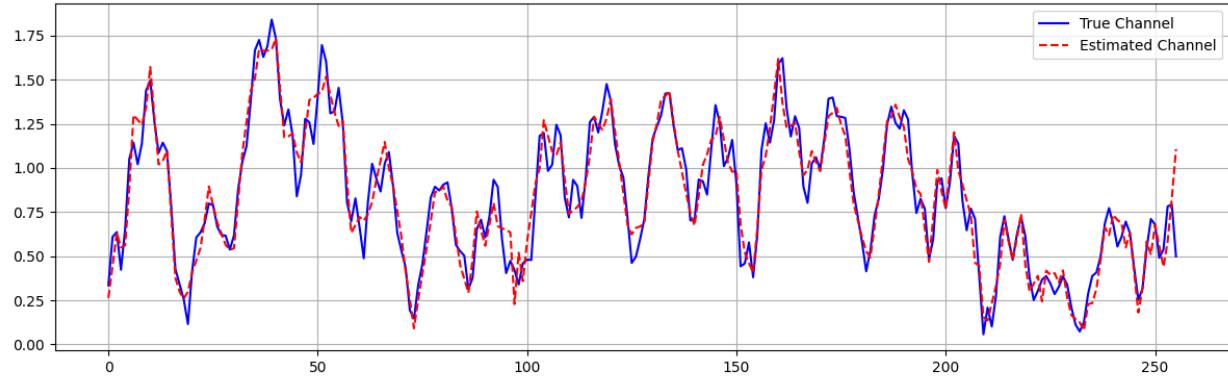
Channel Magnitude Response (M=3, SNR=15 dB)



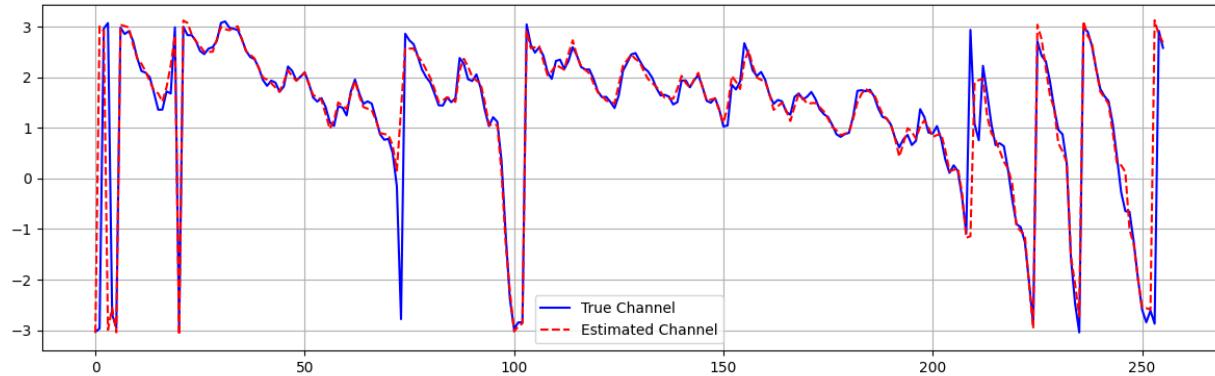
Channel Phase Response (M=3, SNR=15 dB)



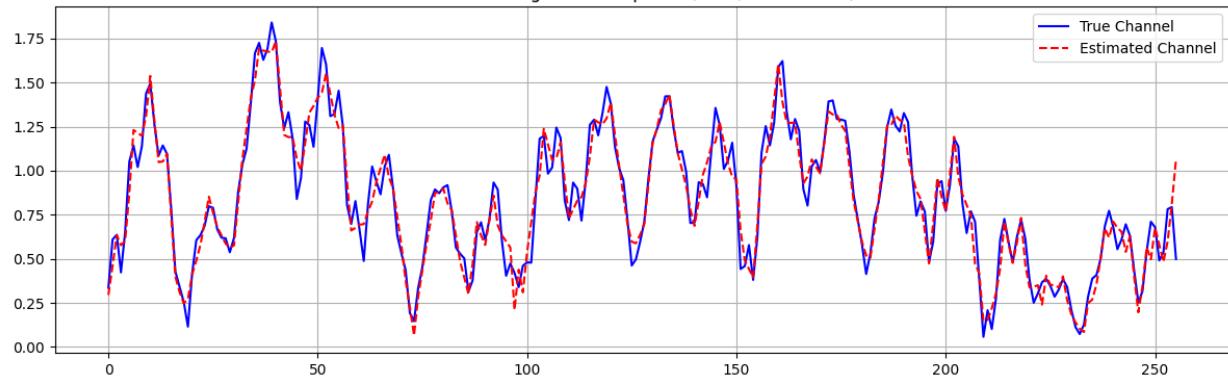
Channel Magnitude Response (M=3, SNR=20 dB)



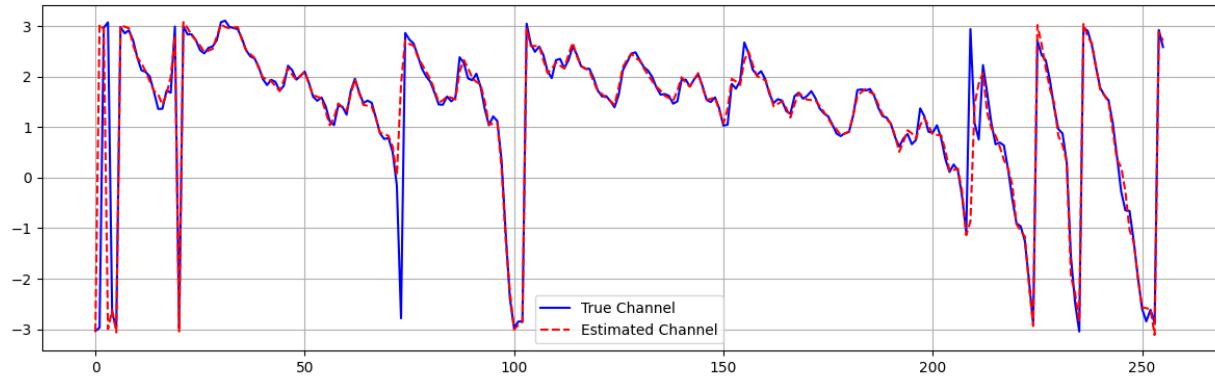
Channel Phase Response (M=3, SNR=20 dB)



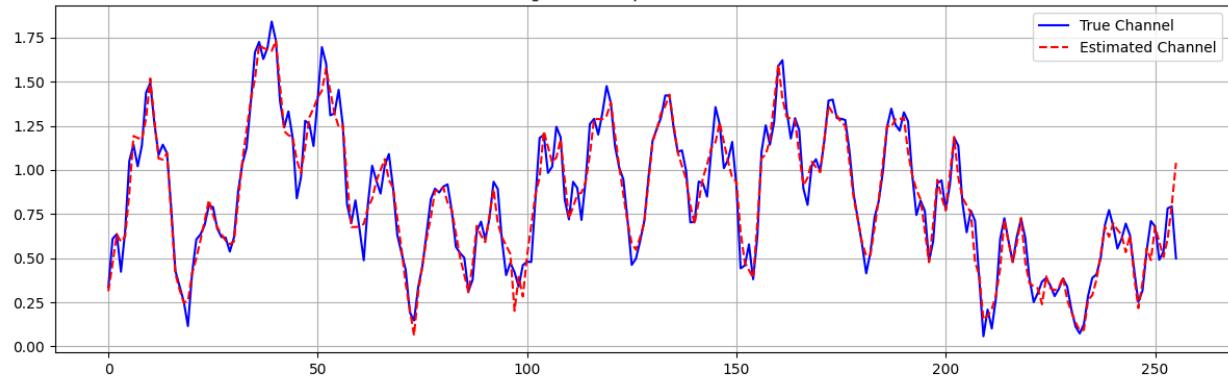
Channel Magnitude Response (M=3, SNR=25 dB)



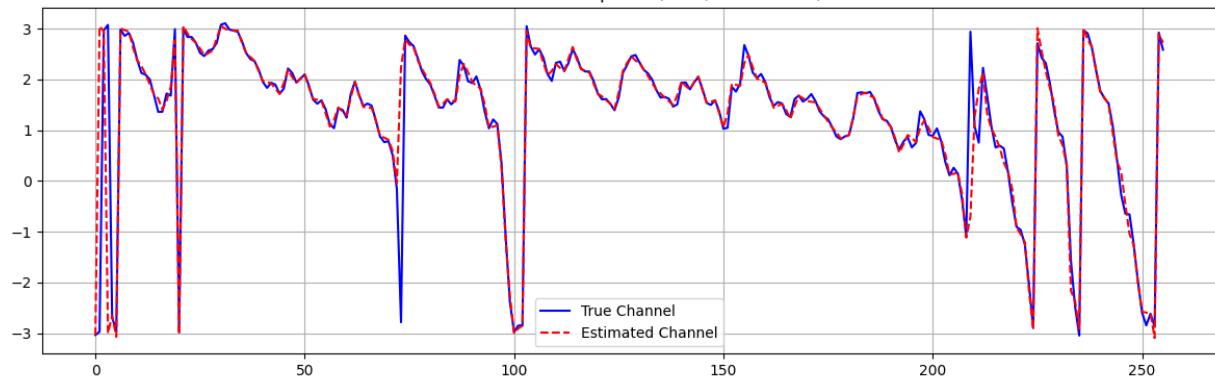
Channel Phase Response (M=3, SNR=25 dB)



Channel Magnitude Response (M=3, SNR=30 dB)

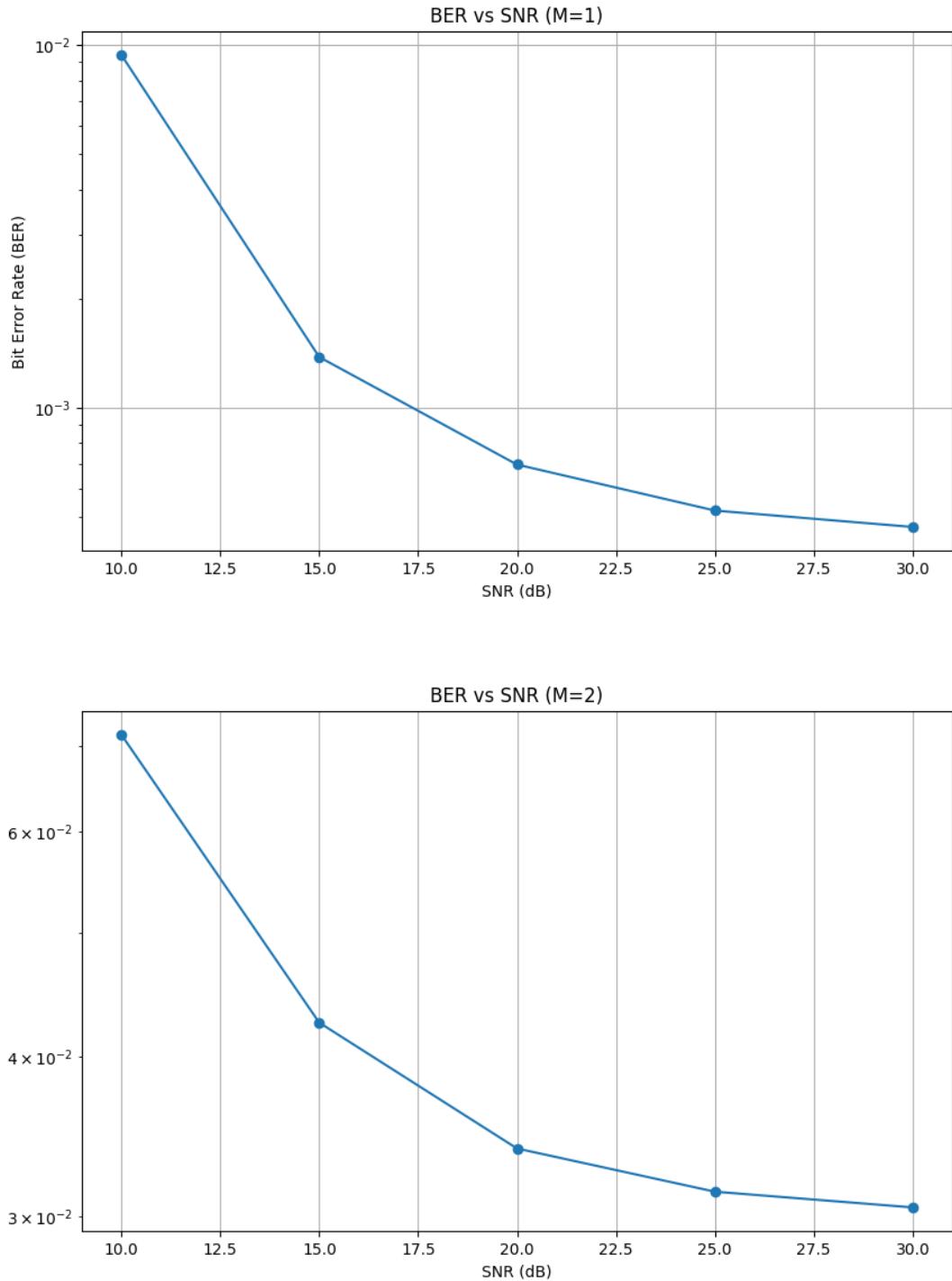


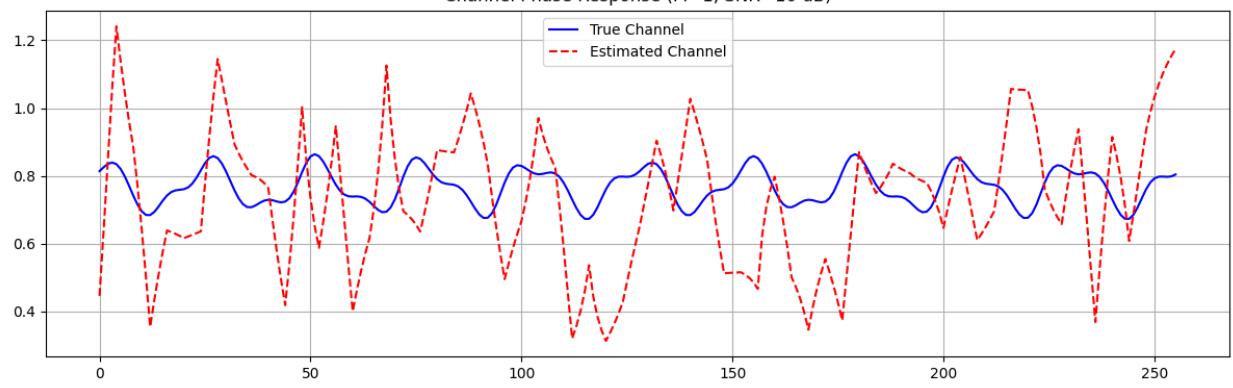
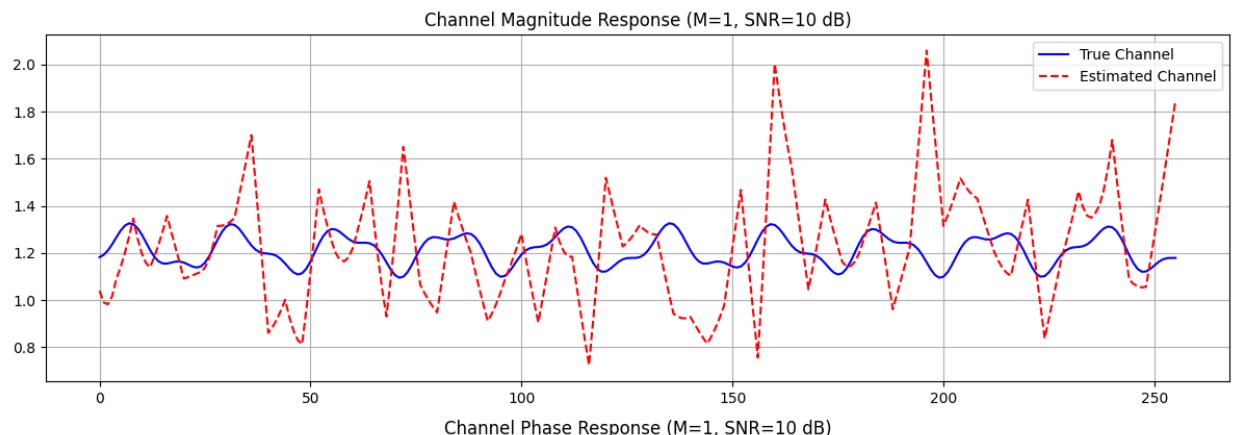
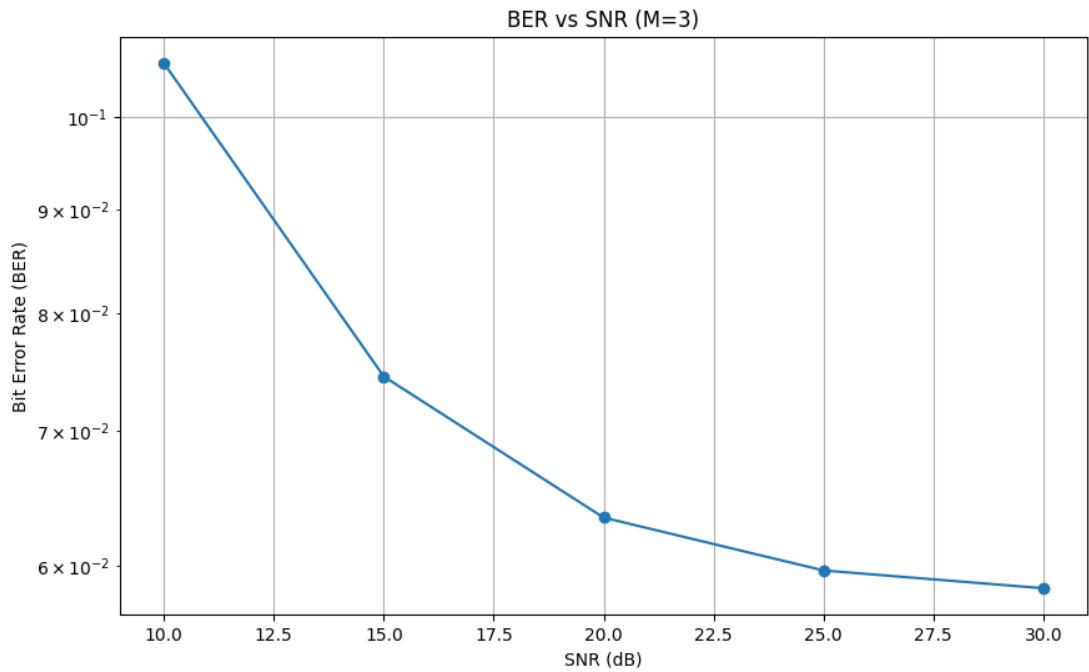
Channel Phase Response (M=3, SNR=30 dB)

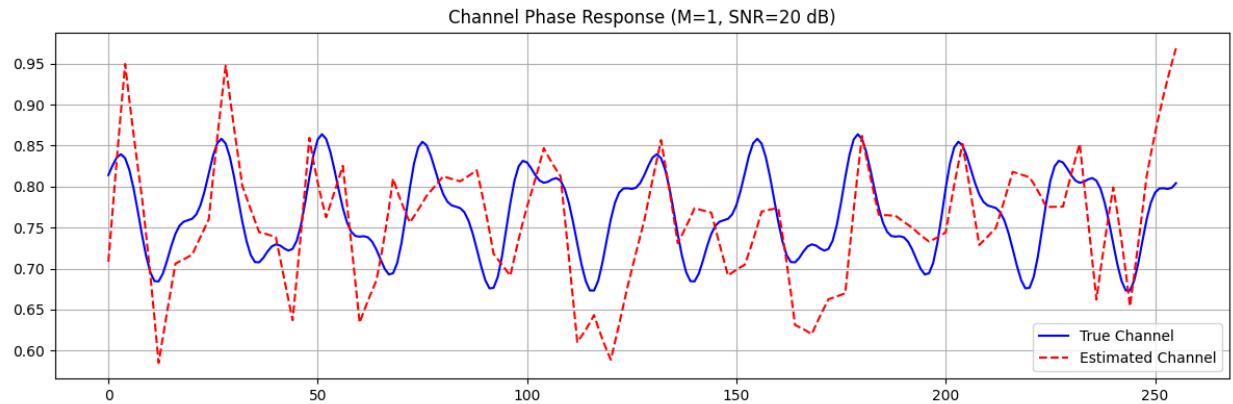
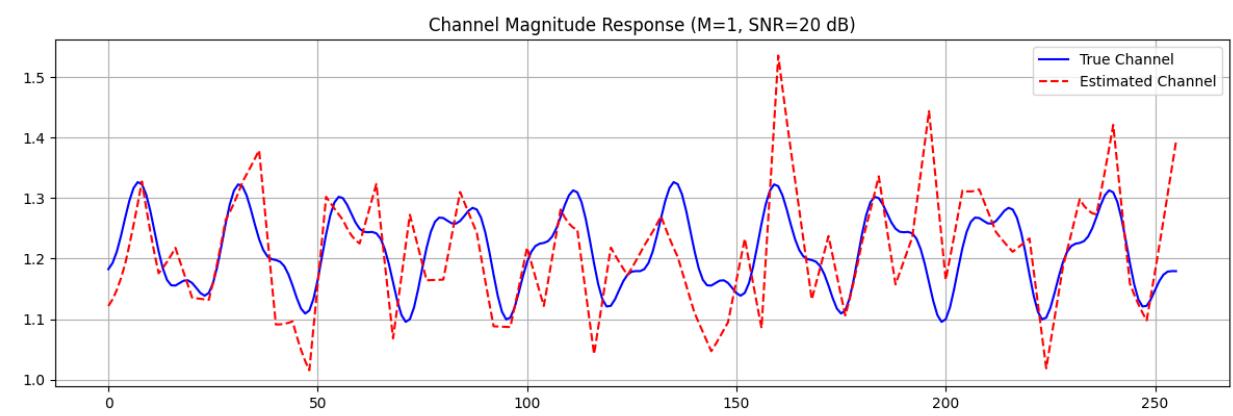
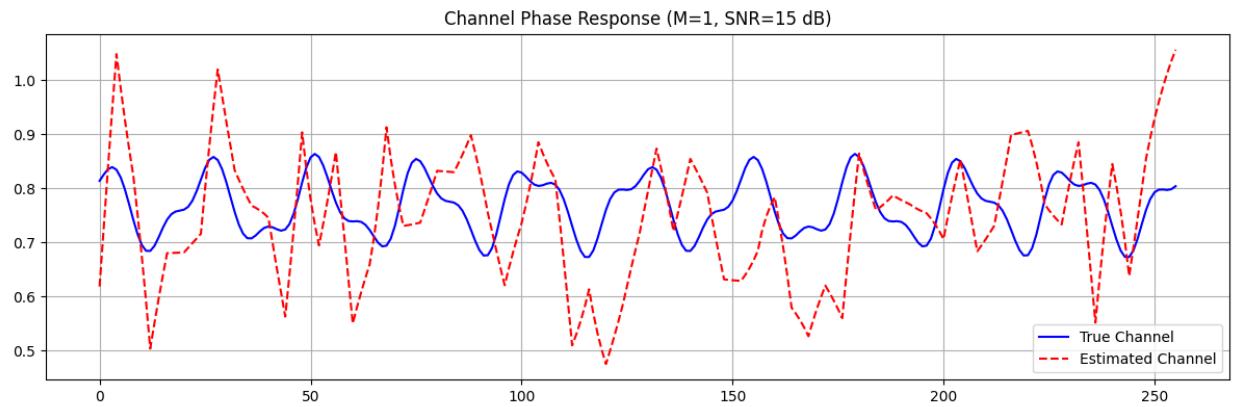
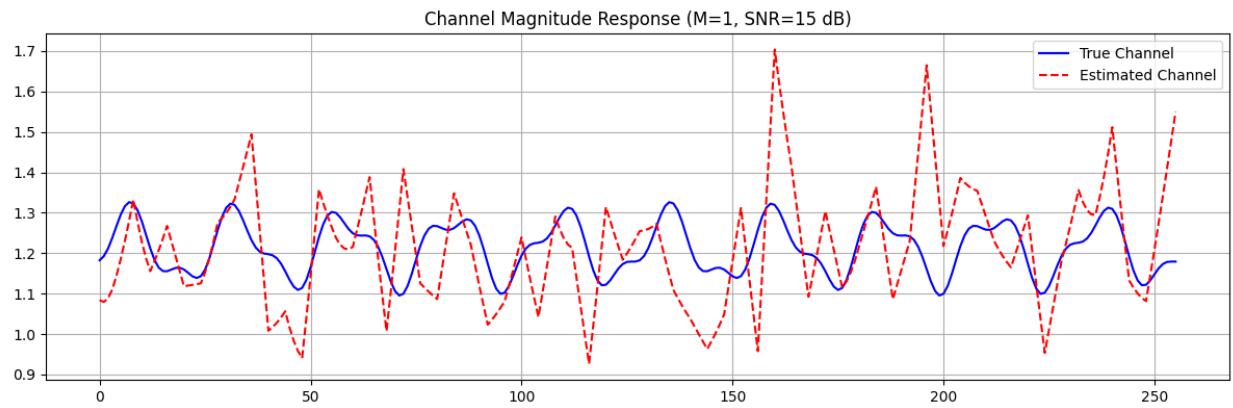


## RESULTS :

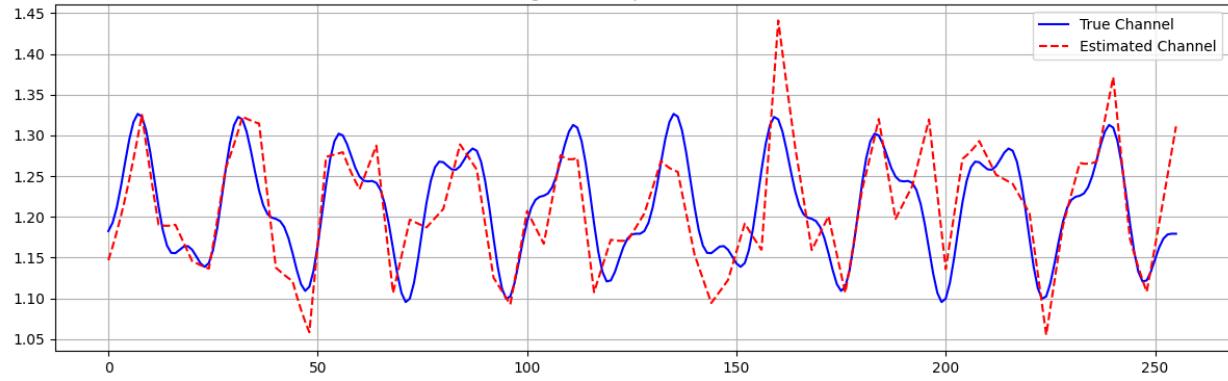
NPs = 4 (pilot spacing )



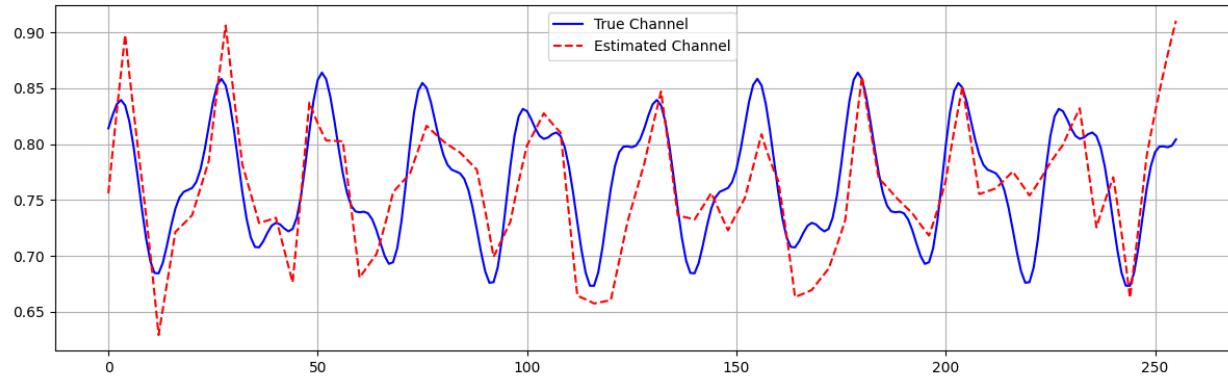




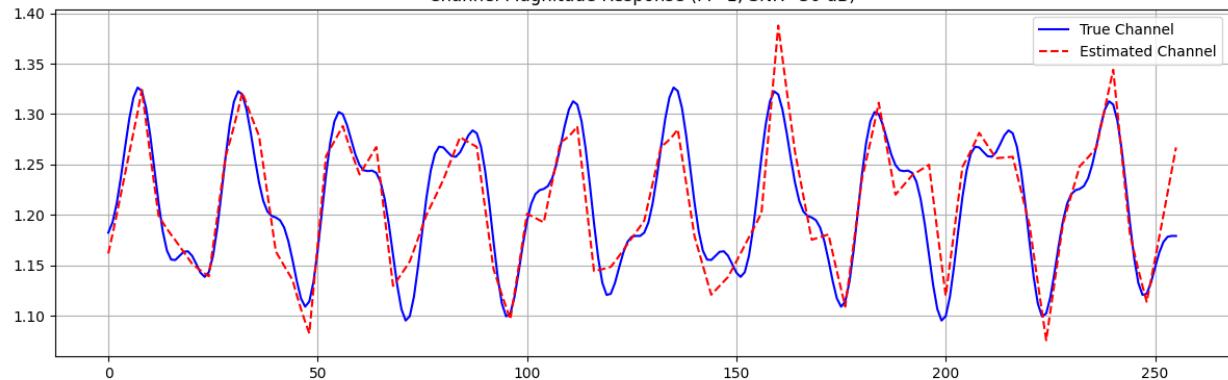
Channel Magnitude Response (M=1, SNR=25 dB)



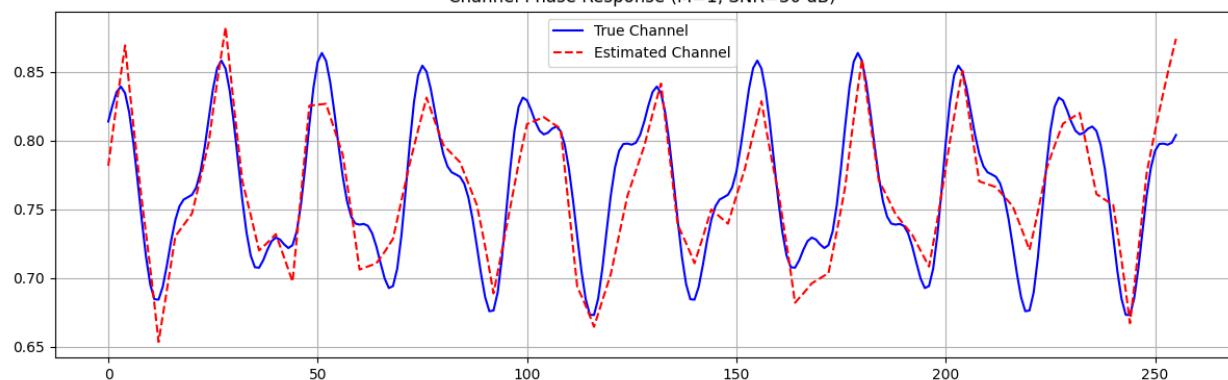
Channel Phase Response (M=1, SNR=25 dB)

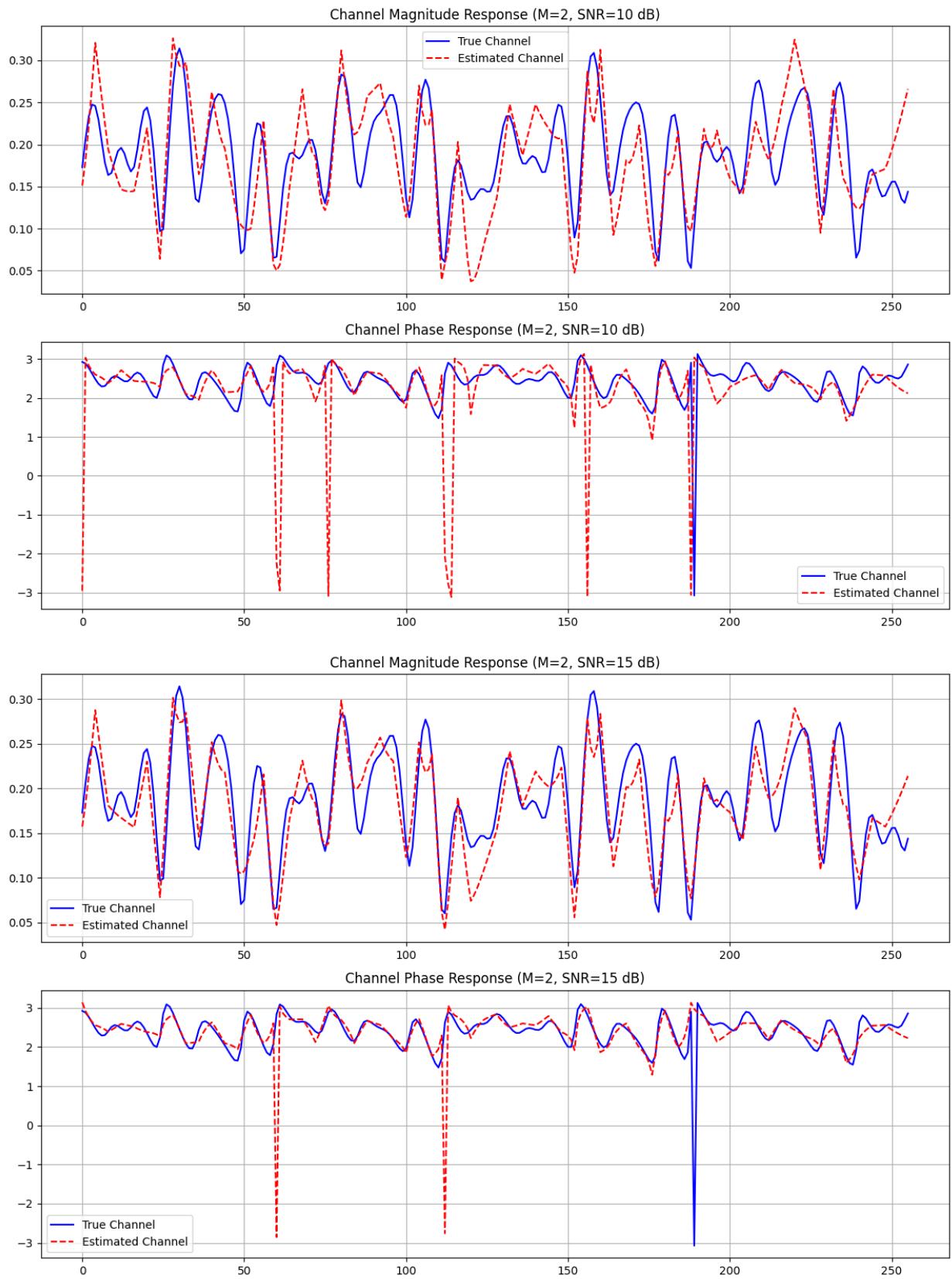


Channel Magnitude Response (M=1, SNR=30 dB)

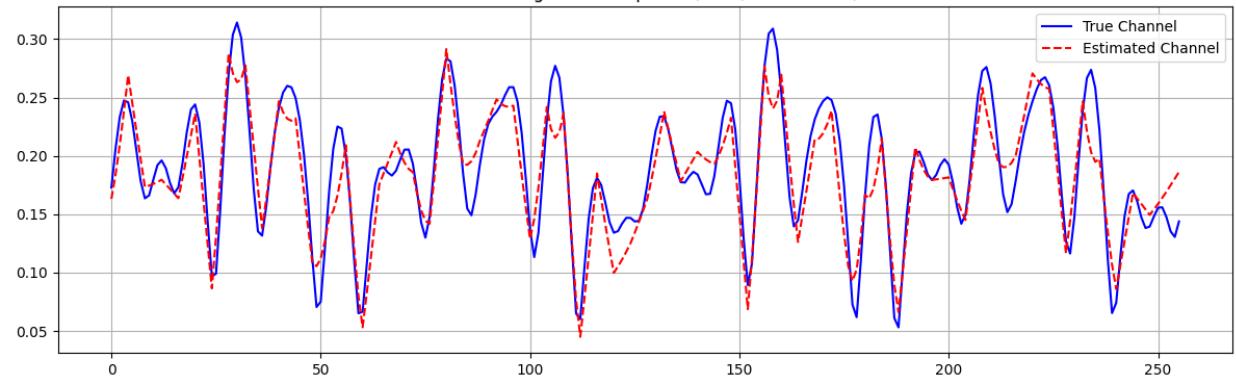


Channel Phase Response (M=1, SNR=30 dB)

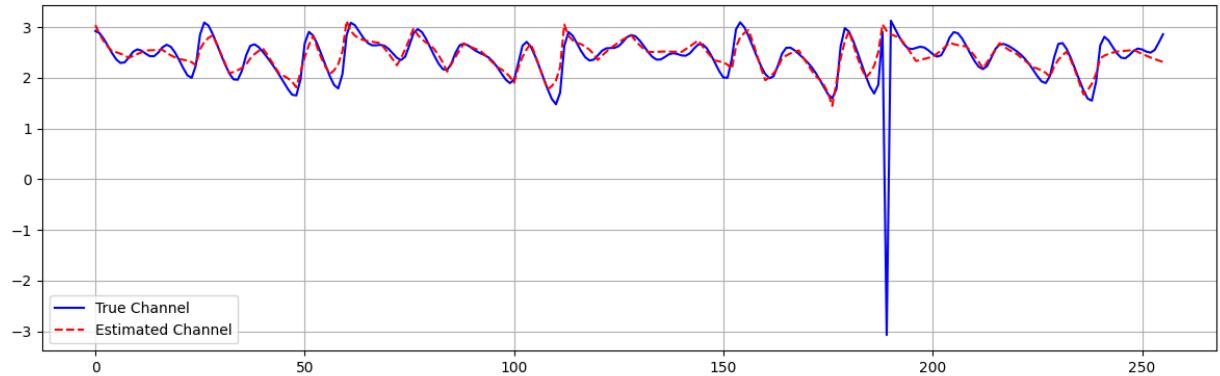




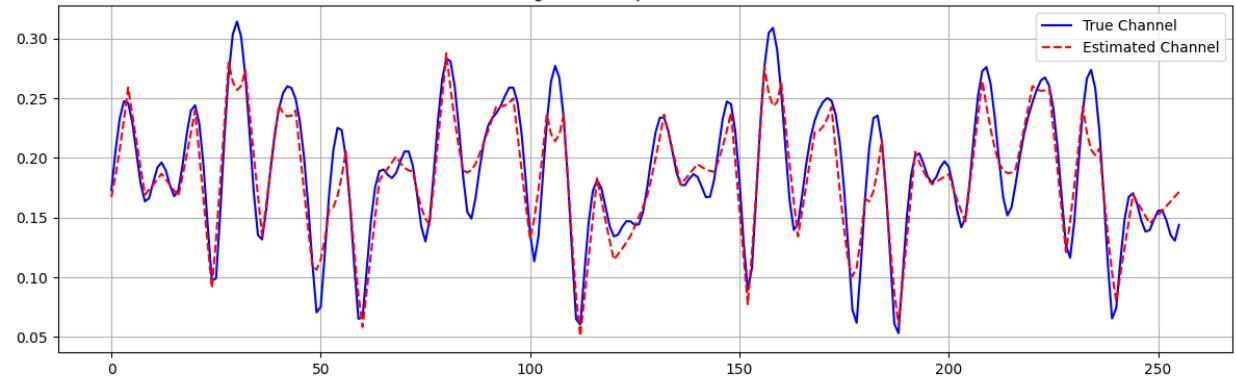
Channel Magnitude Response (M=2, SNR=20 dB)



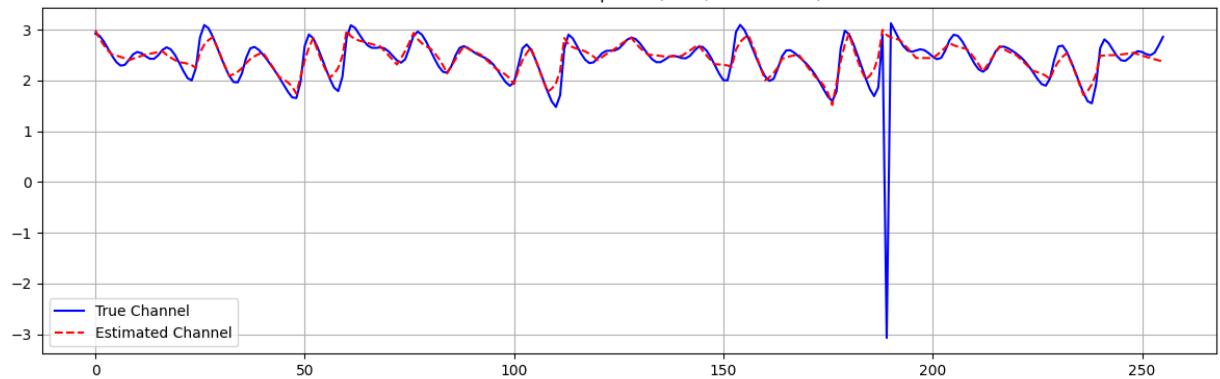
Channel Phase Response (M=2, SNR=20 dB)

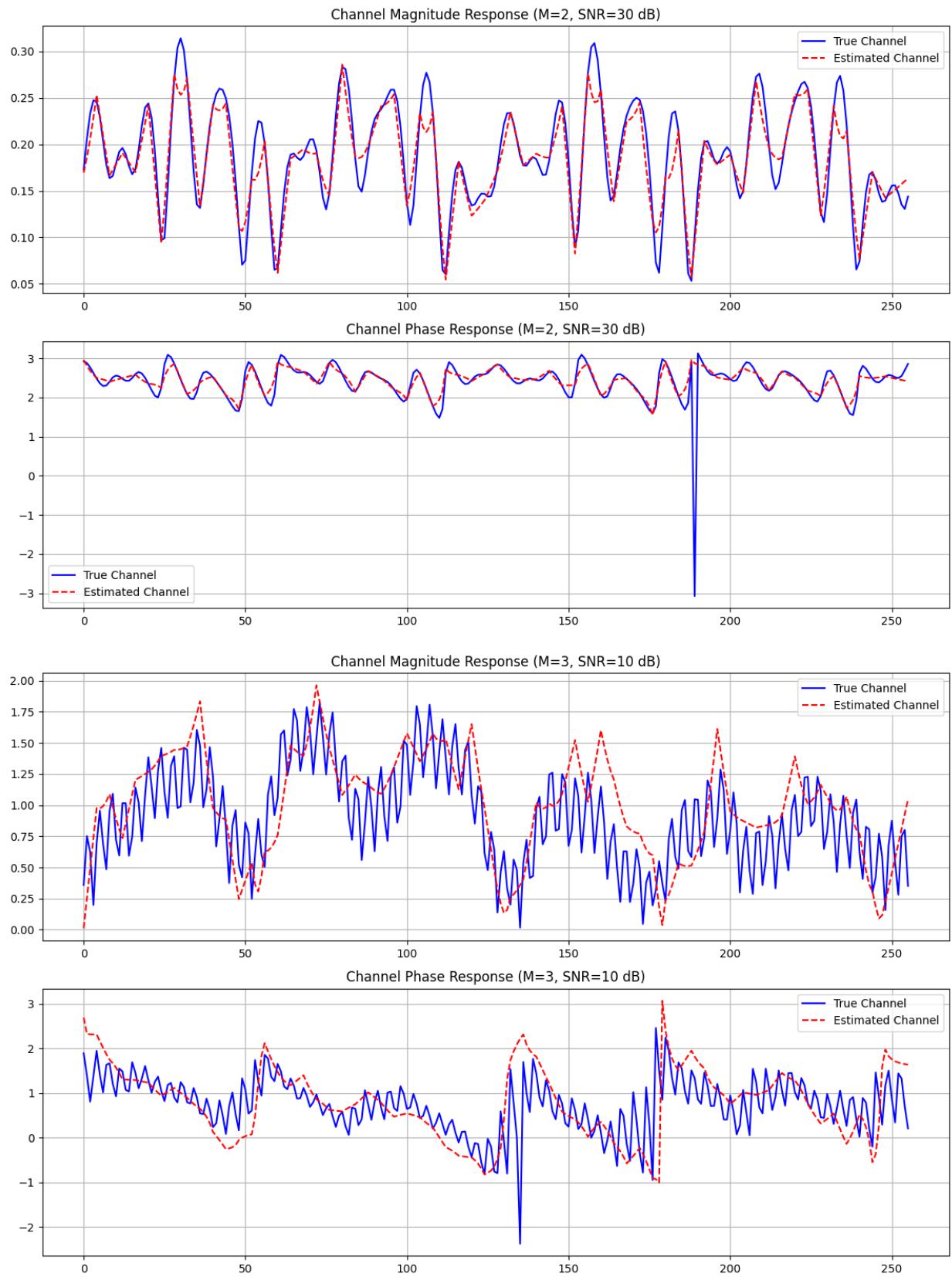


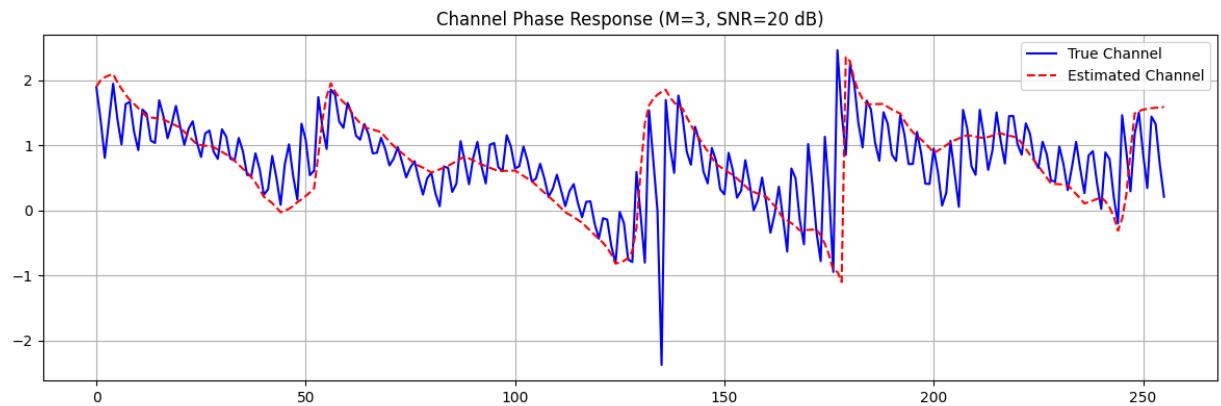
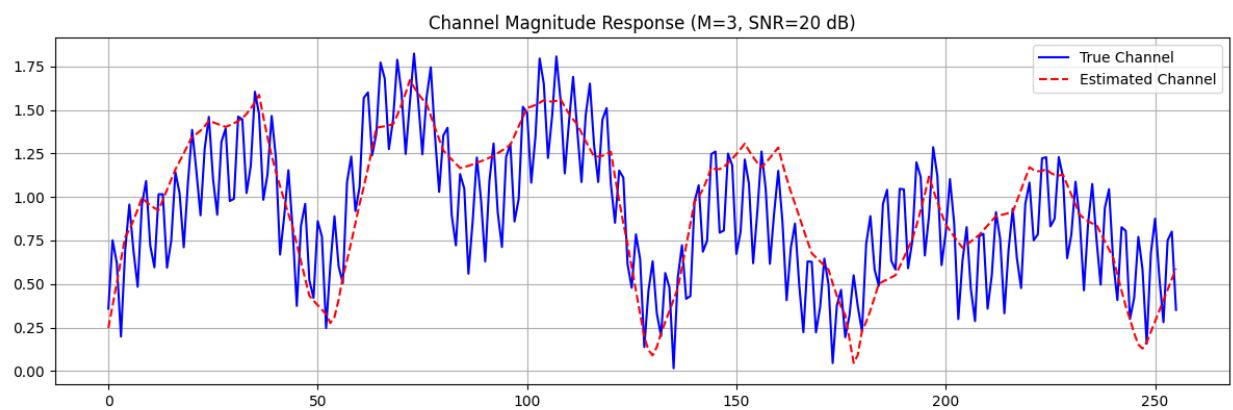
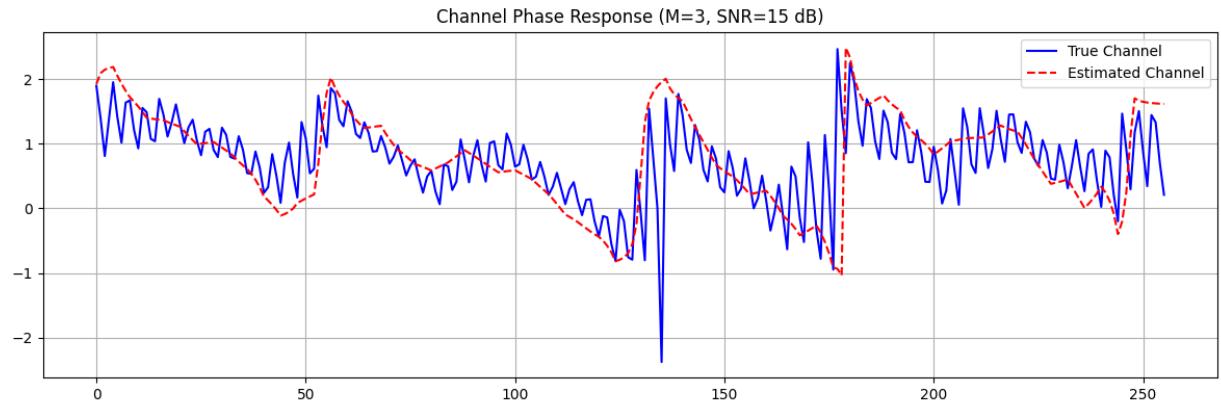
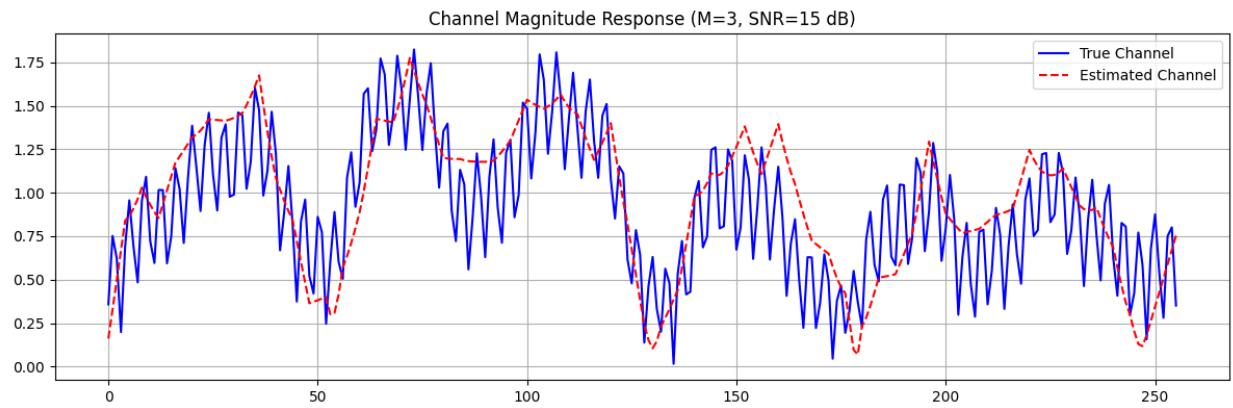
Channel Magnitude Response (M=2, SNR=25 dB)

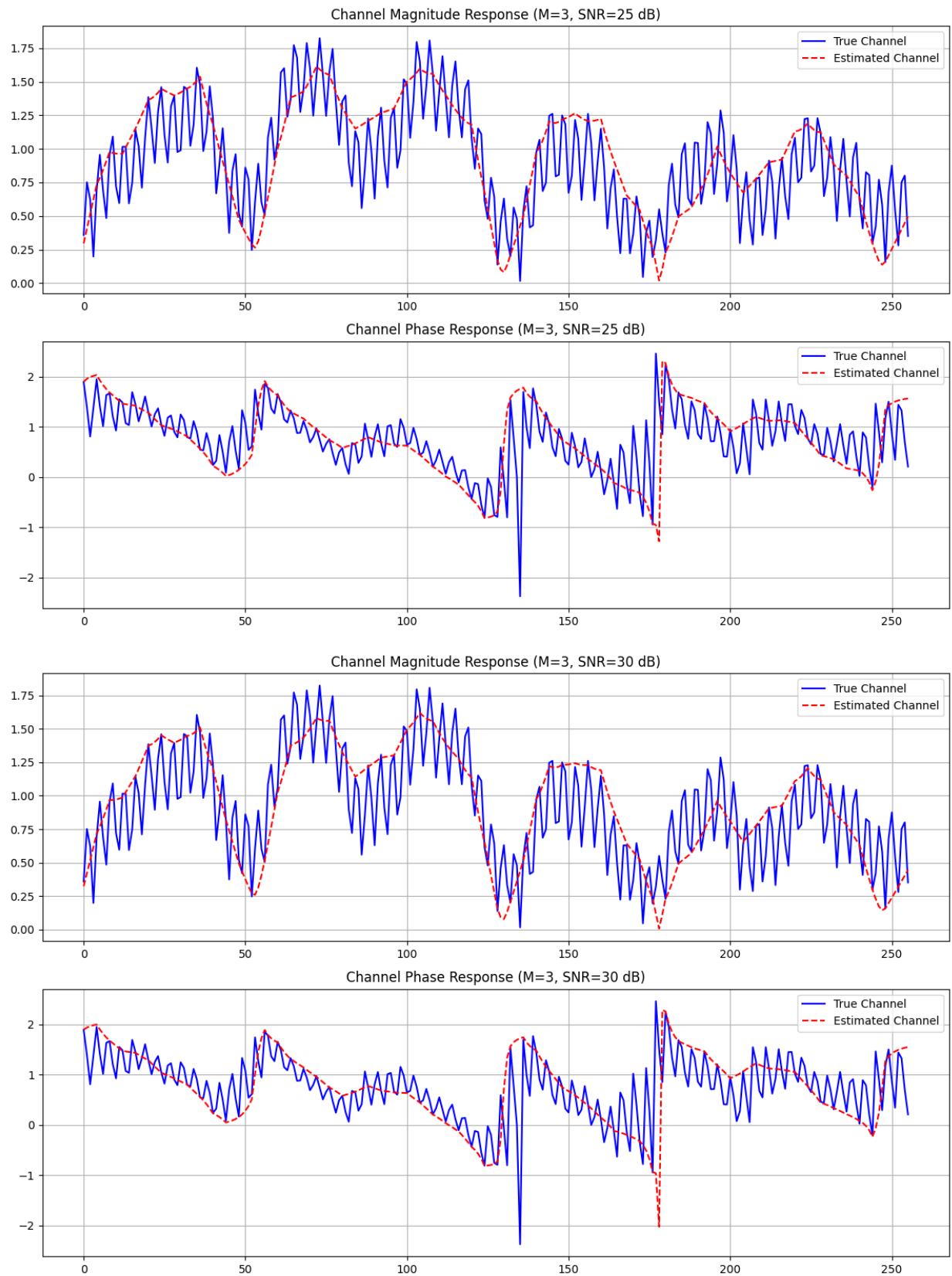


Channel Phase Response (M=2, SNR=25 dB)



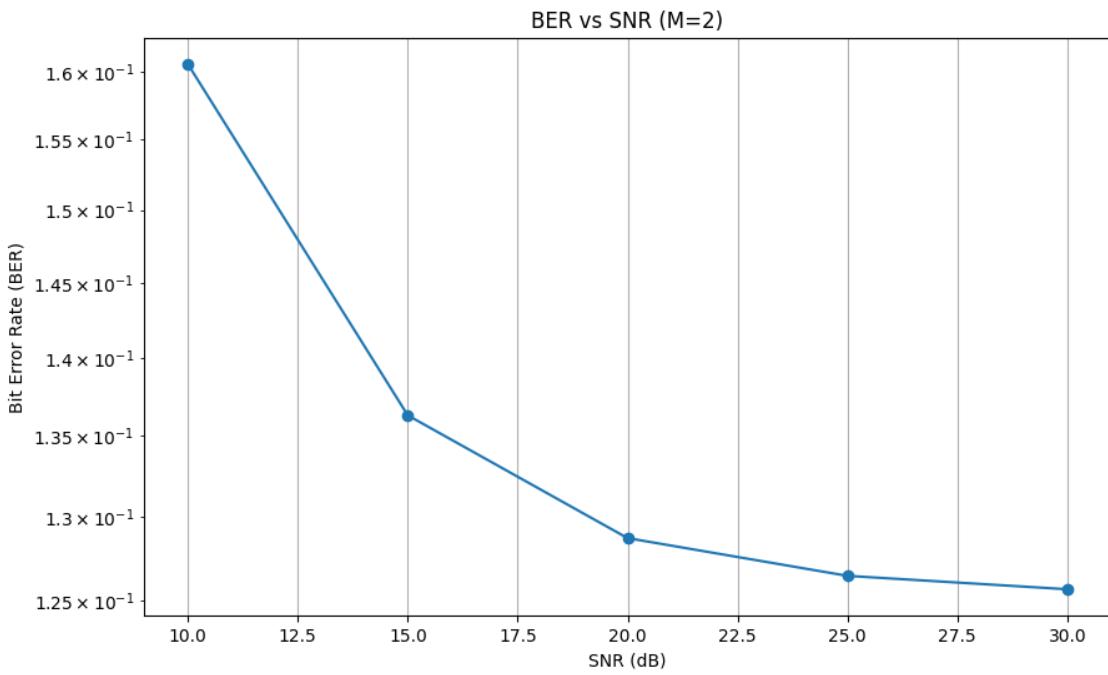
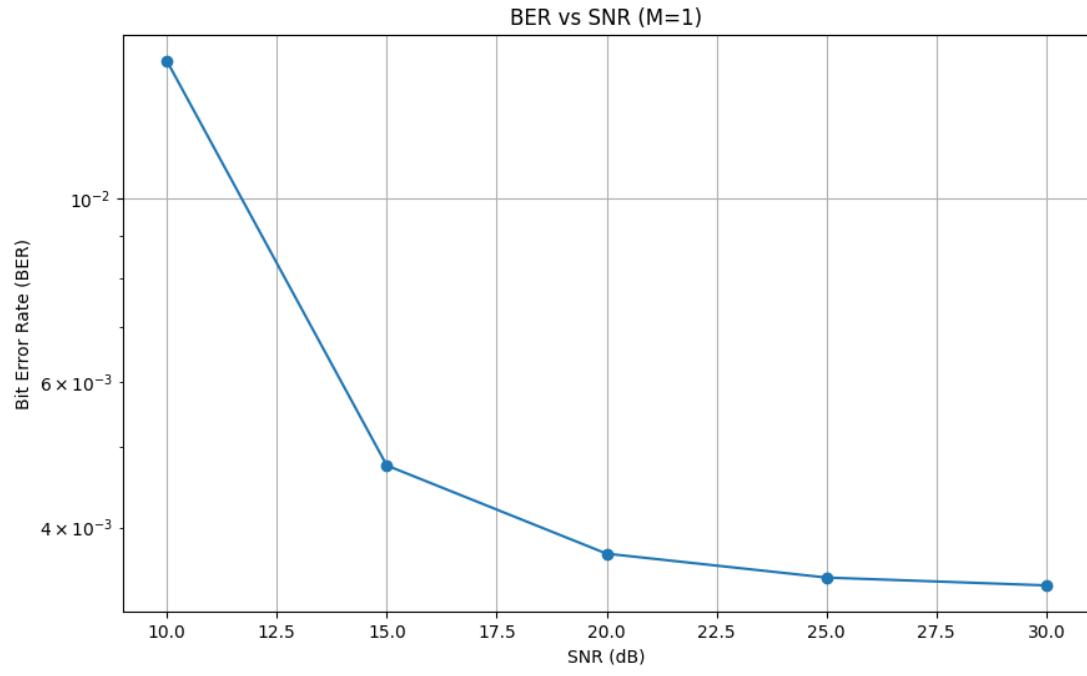




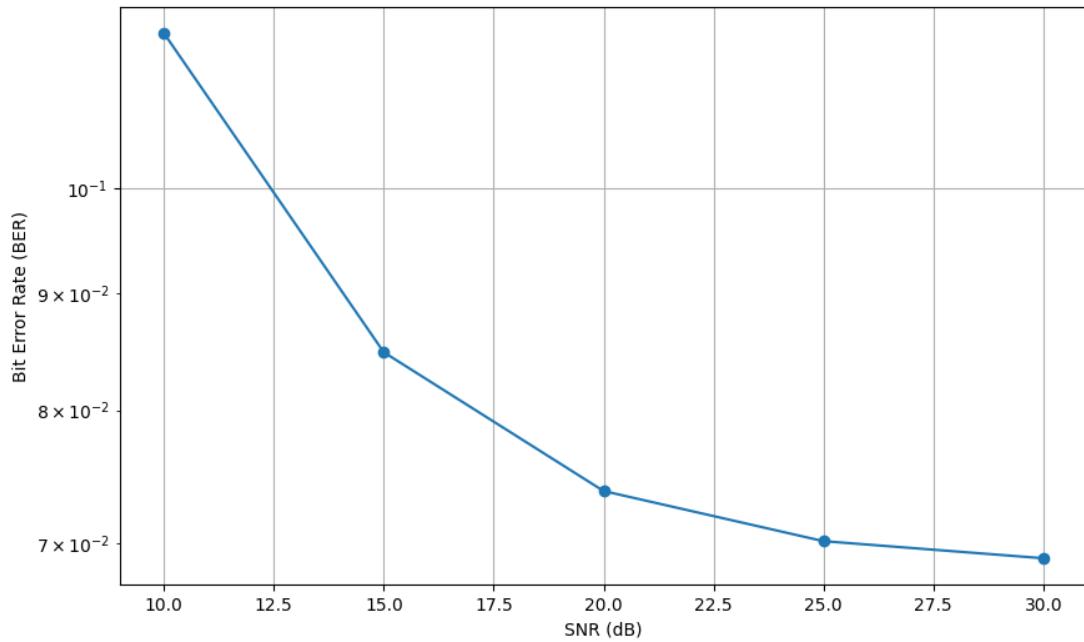


## RESULTS:

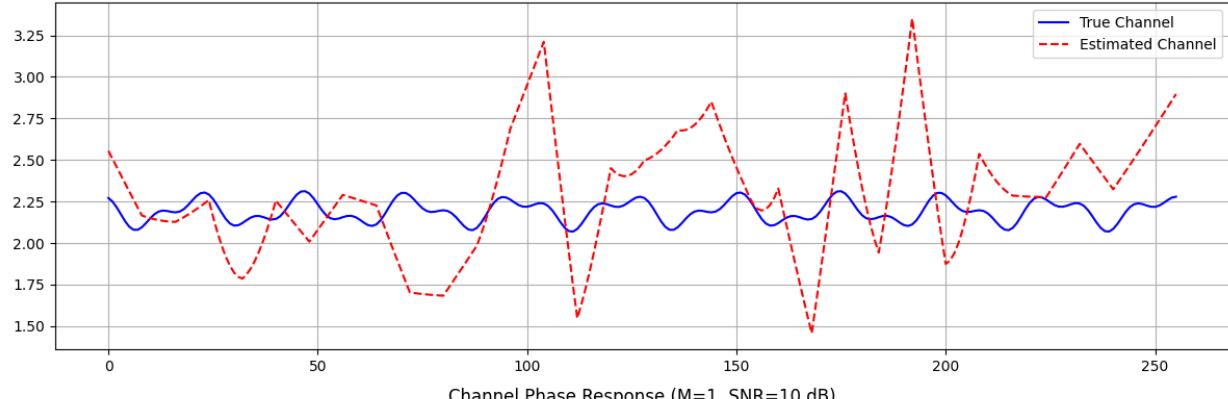
NPs = 8 (pilot spacing)



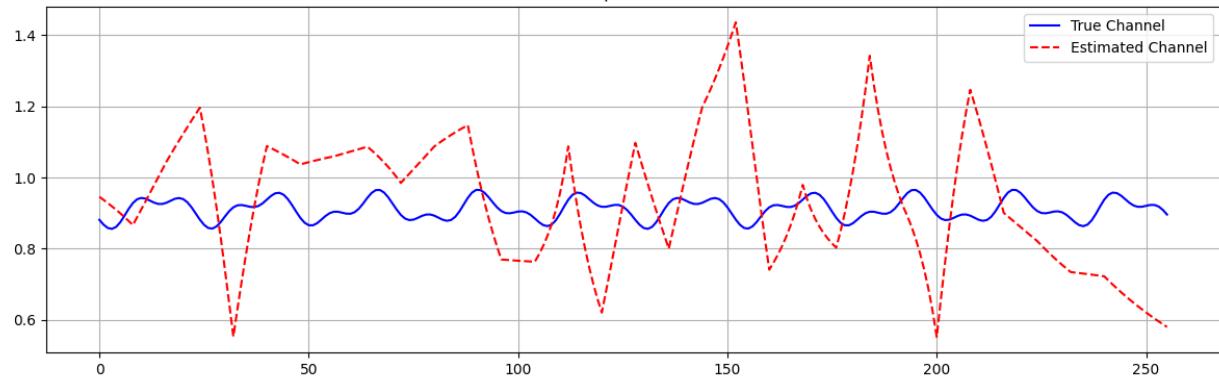
BER vs SNR (M=3)



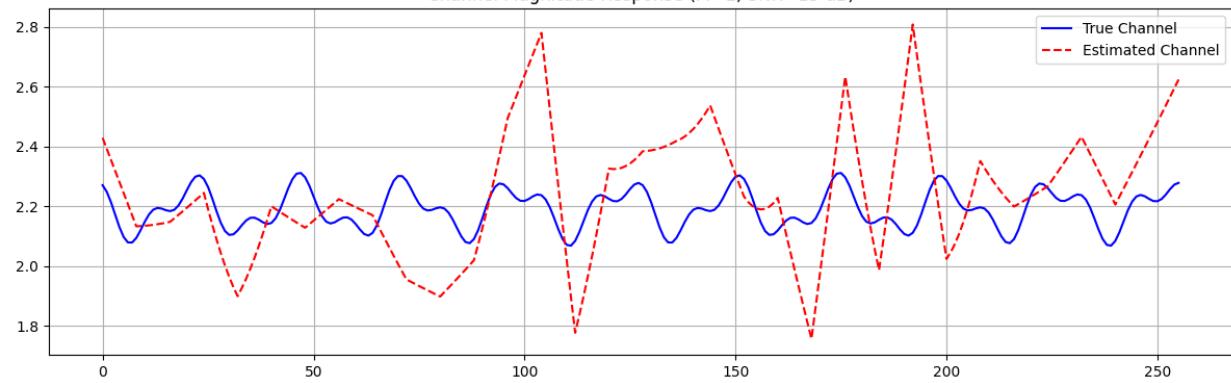
Channel Magnitude Response (M=1, SNR=10 dB)



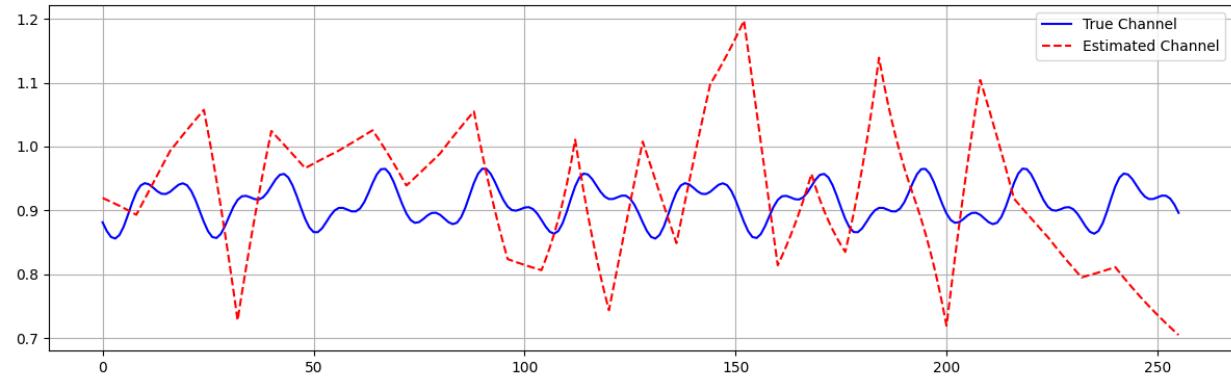
Channel Phase Response (M=1, SNR=10 dB)



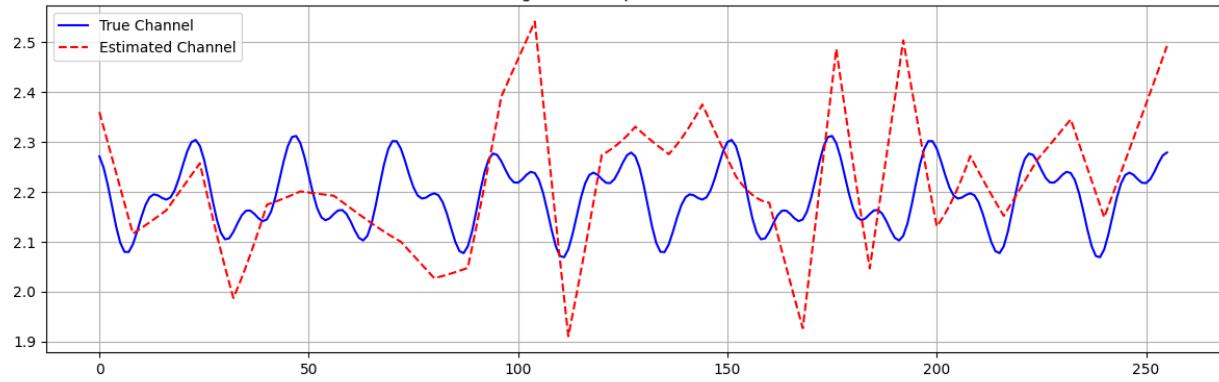
Channel Magnitude Response (M=1, SNR=15 dB)



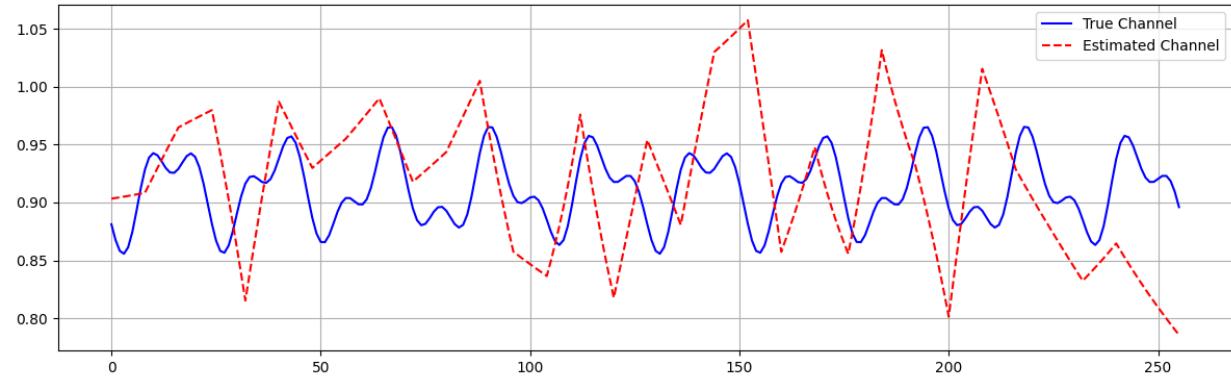
Channel Phase Response (M=1, SNR=15 dB)

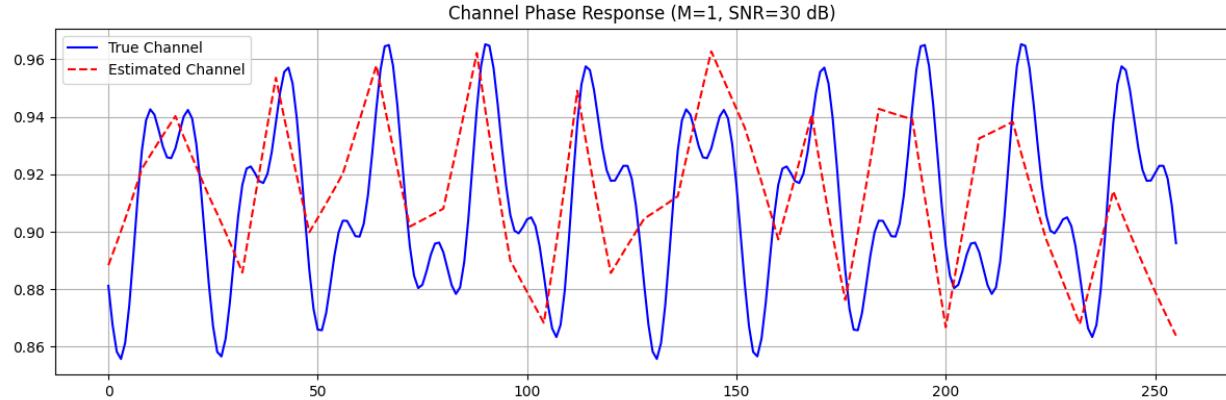
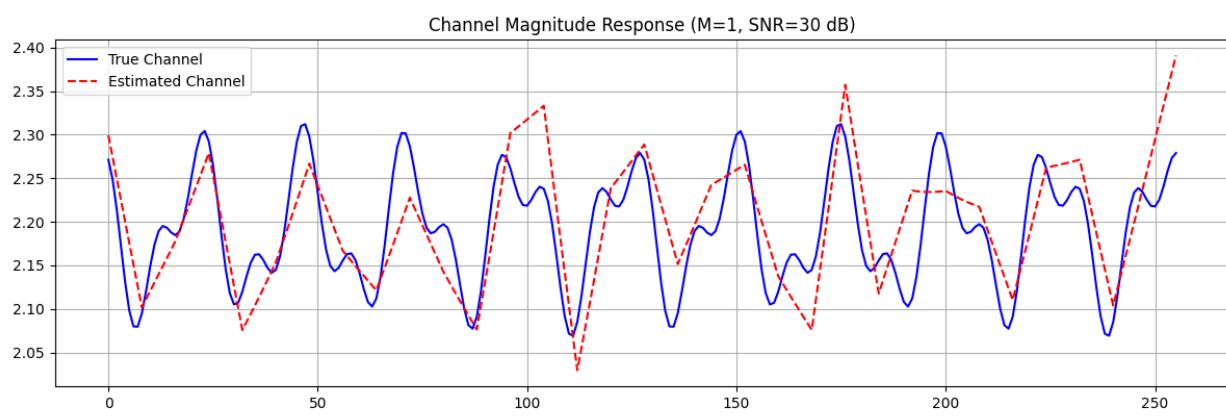
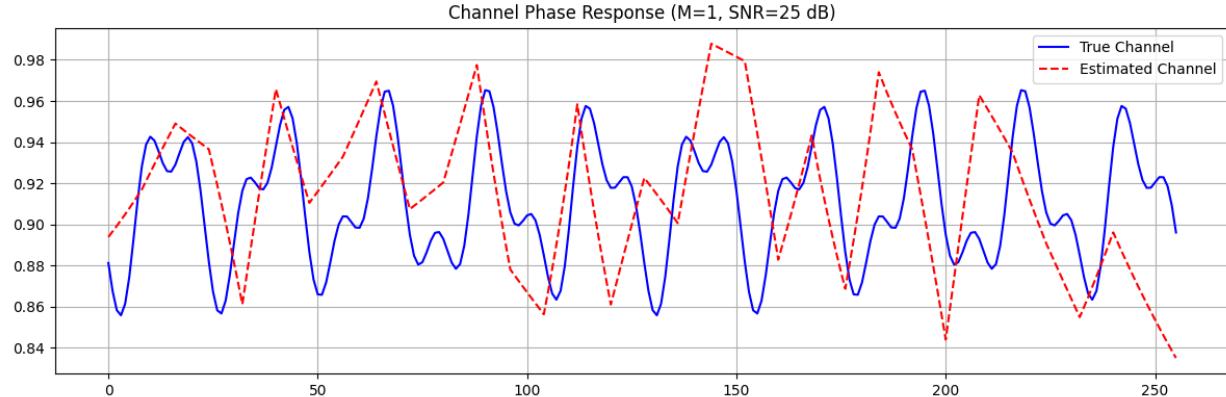
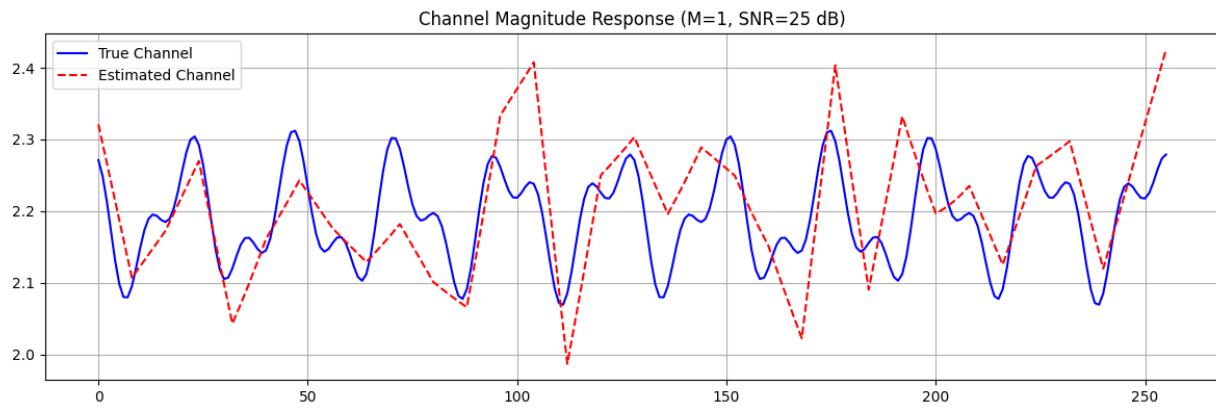


Channel Magnitude Response (M=1, SNR=20 dB)

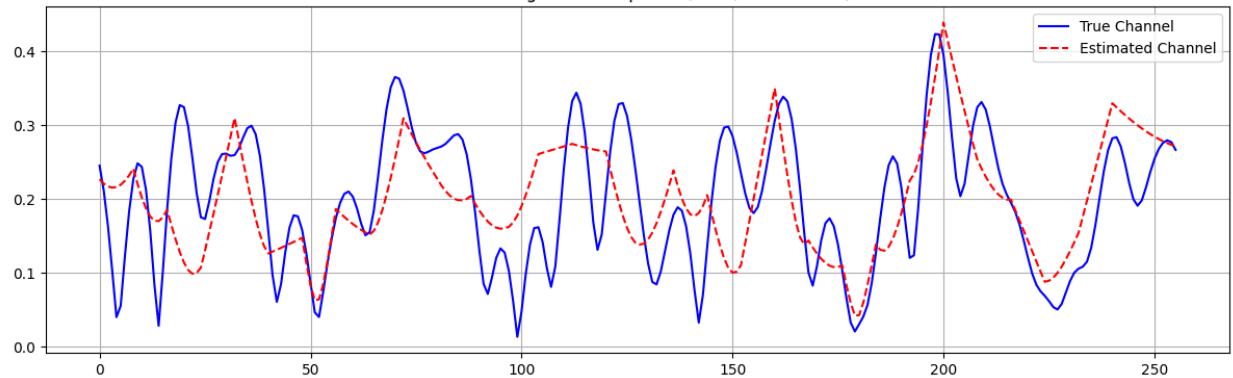


Channel Phase Response (M=1, SNR=20 dB)

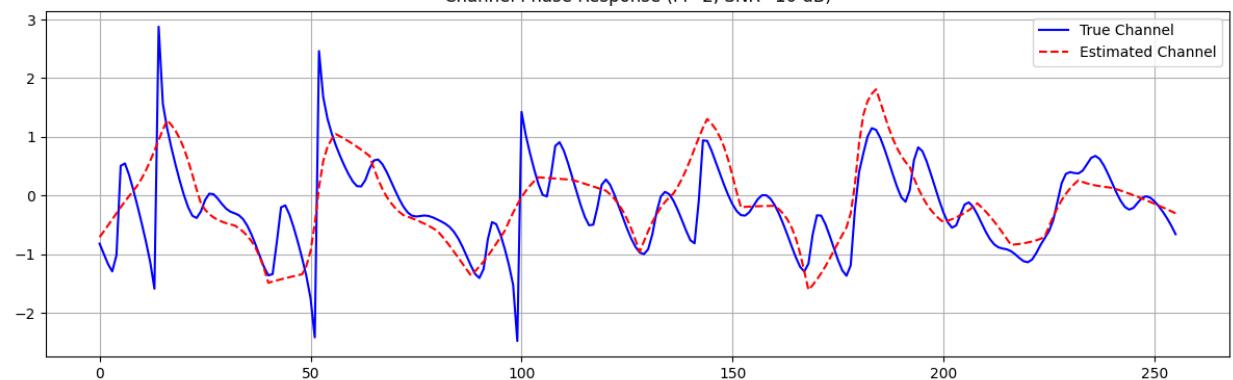




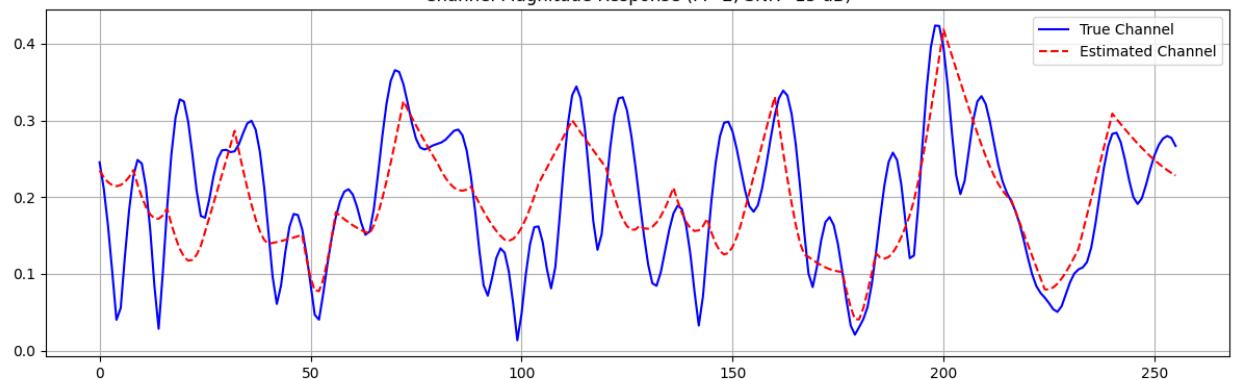
Channel Magnitude Response (M=2, SNR=10 dB)



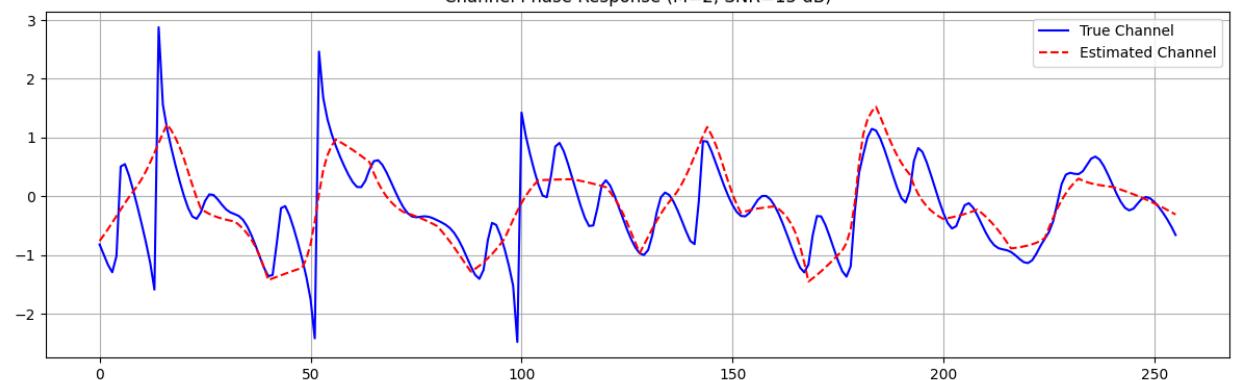
Channel Phase Response (M=2, SNR=10 dB)



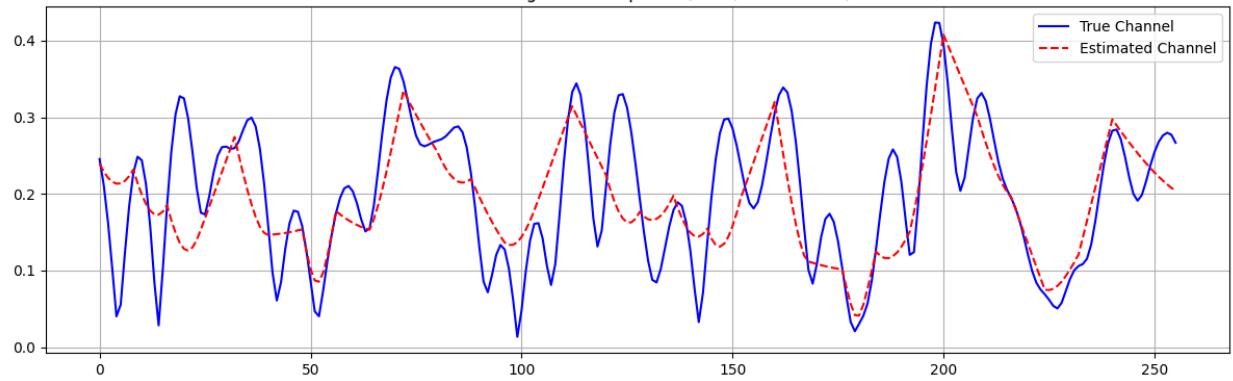
Channel Magnitude Response (M=2, SNR=15 dB)



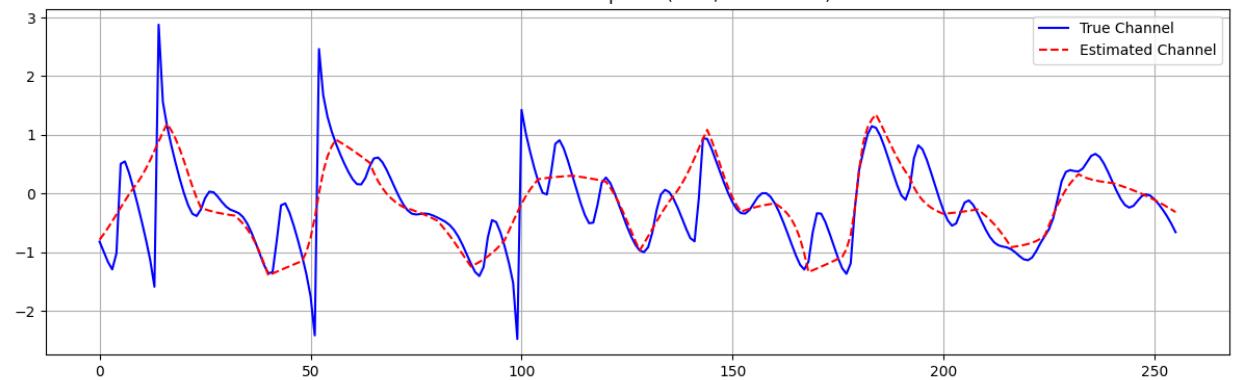
Channel Phase Response (M=2, SNR=15 dB)



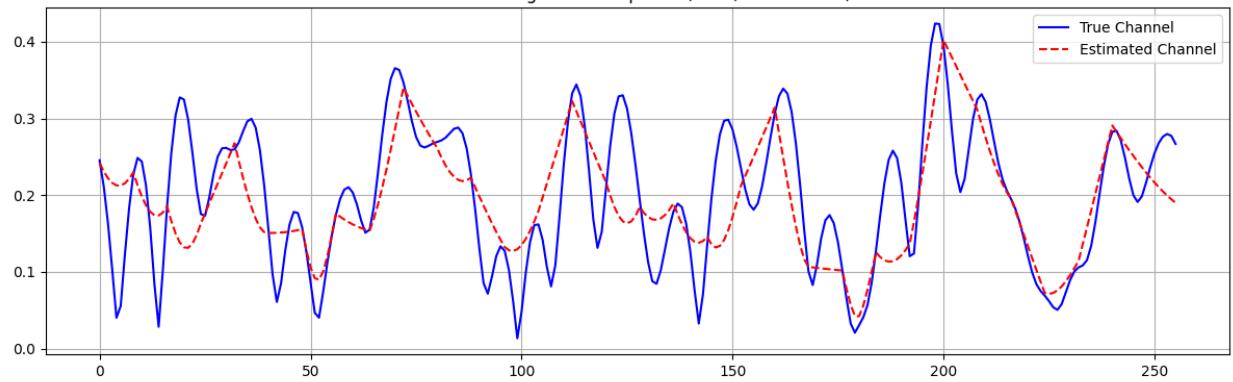
Channel Magnitude Response (M=2, SNR=20 dB)



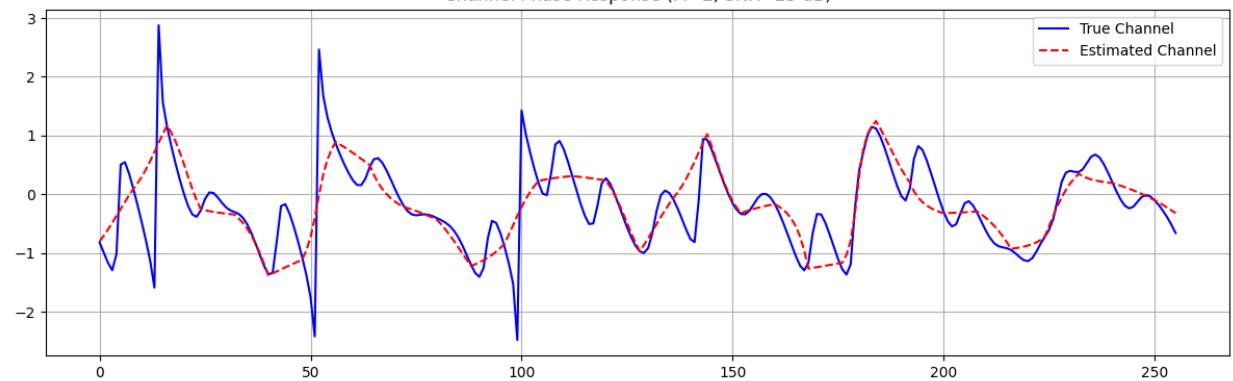
Channel Phase Response (M=2, SNR=20 dB)

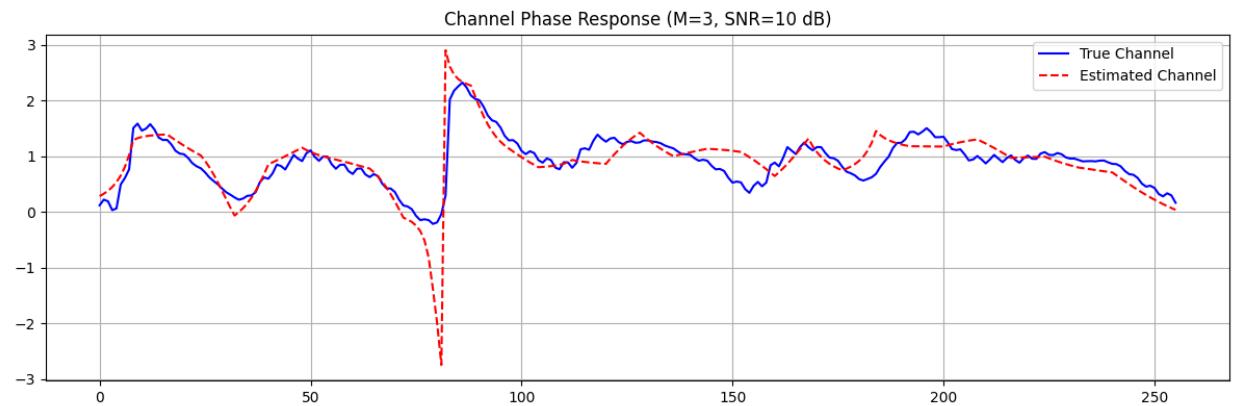
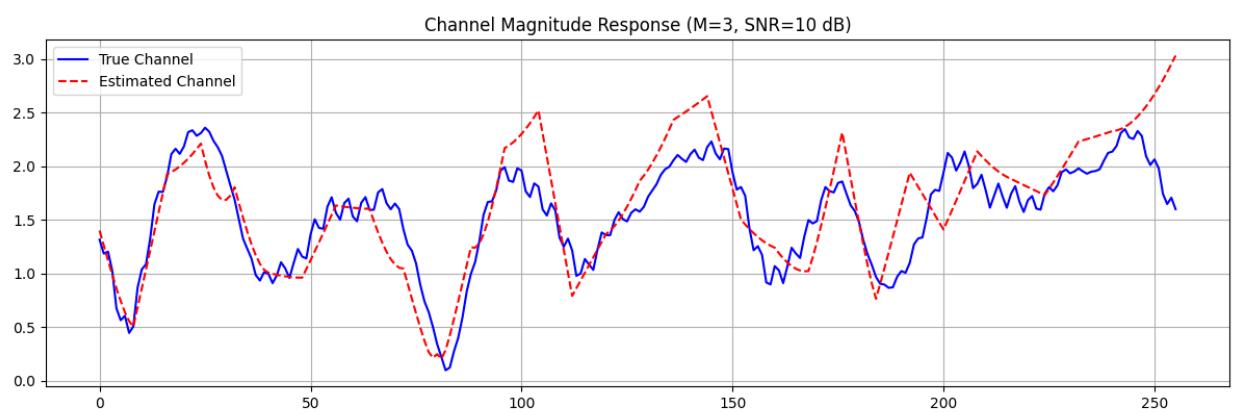
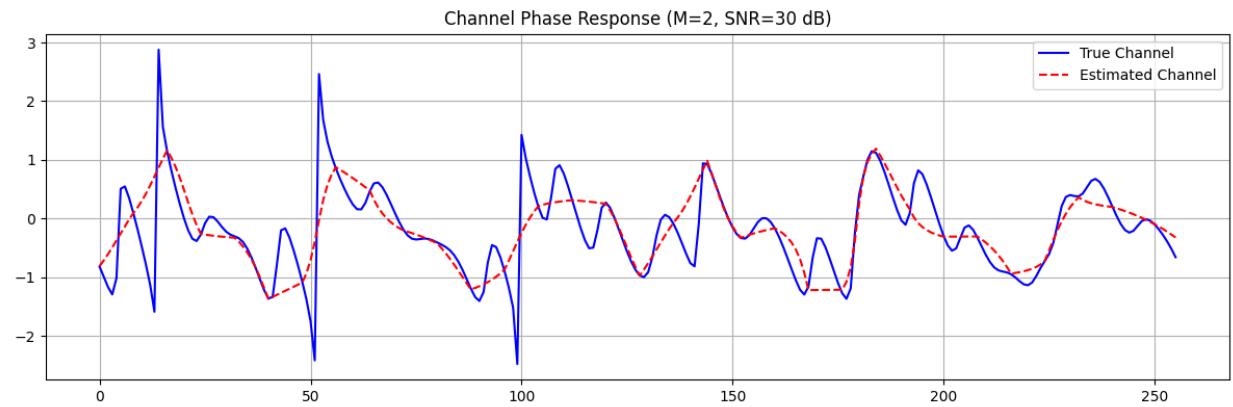
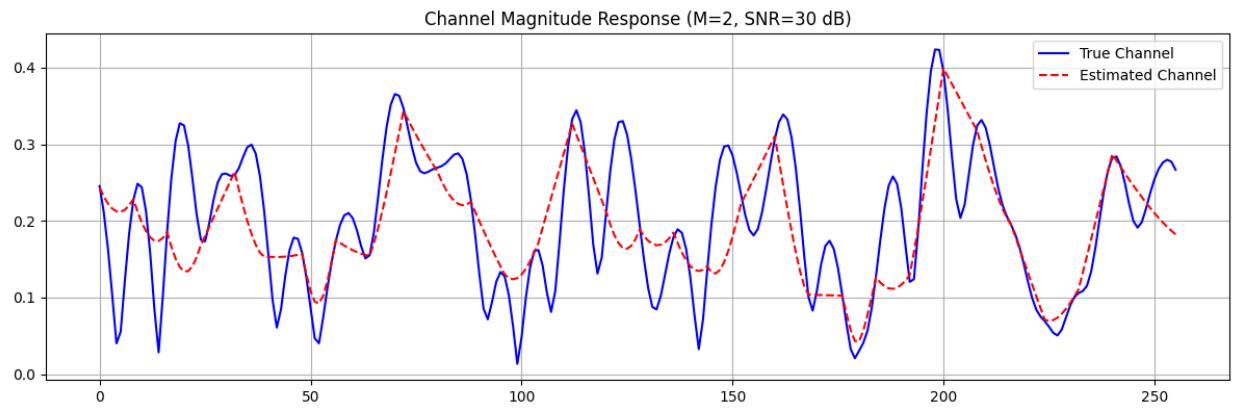


Channel Magnitude Response (M=2, SNR=25 dB)

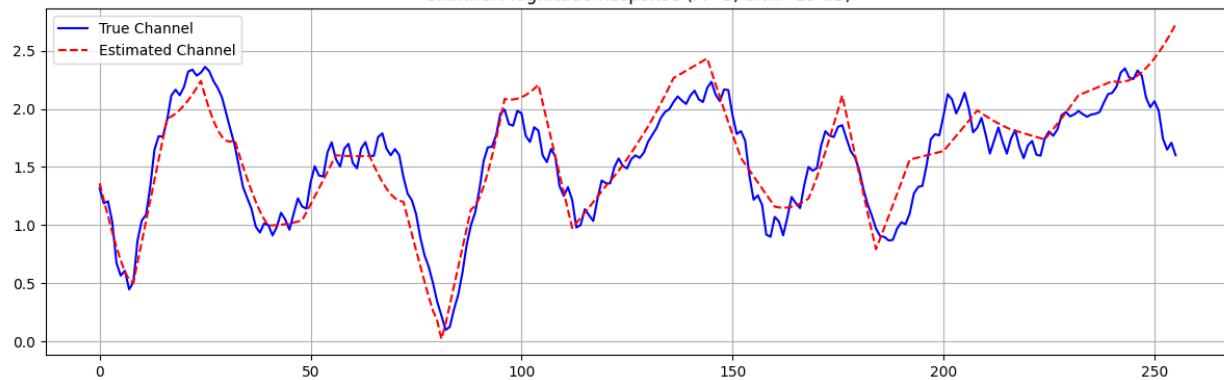


Channel Phase Response (M=2, SNR=25 dB)

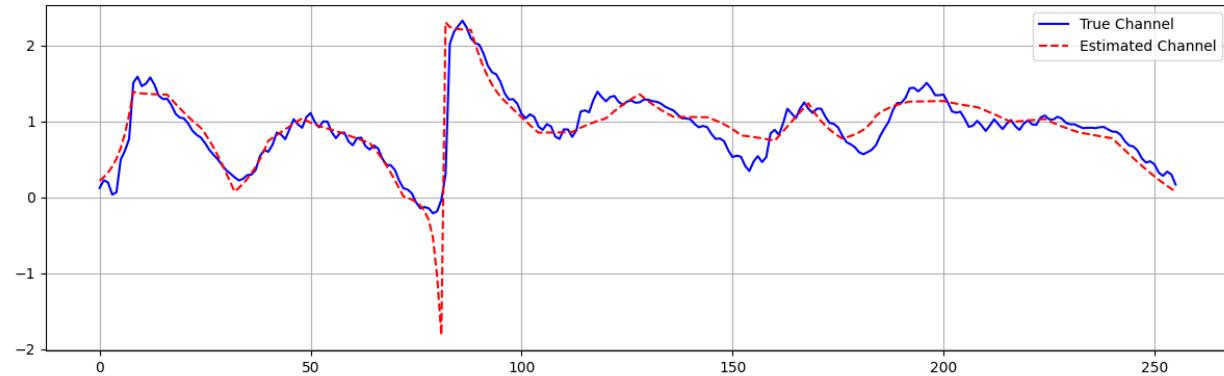




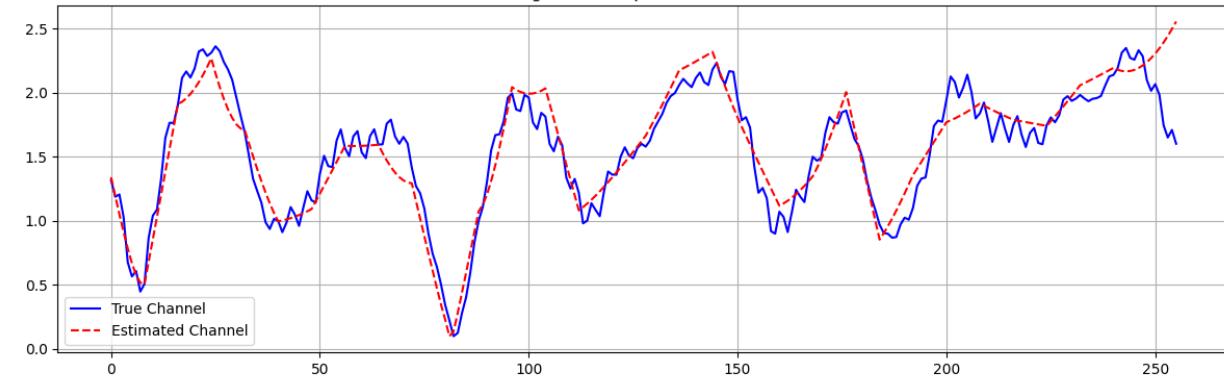
Channel Magnitude Response (M=3, SNR=15 dB)



Channel Phase Response (M=3, SNR=15 dB)



Channel Magnitude Response (M=3, SNR=20 dB)



Channel Phase Response (M=3, SNR=20 dB)

