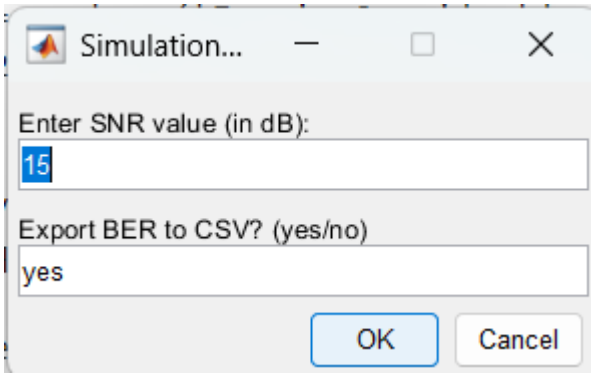
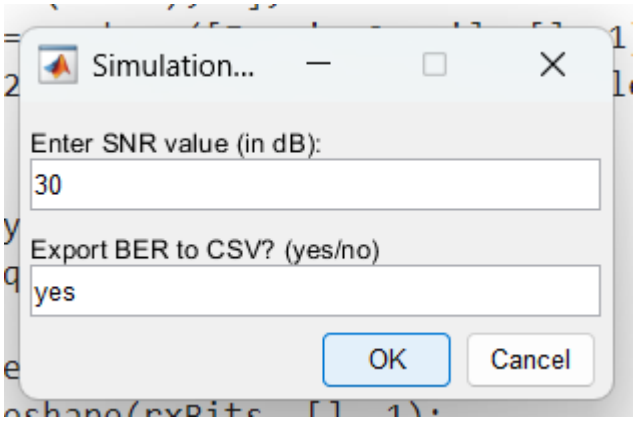
# Outputs




enter any snr value of choice



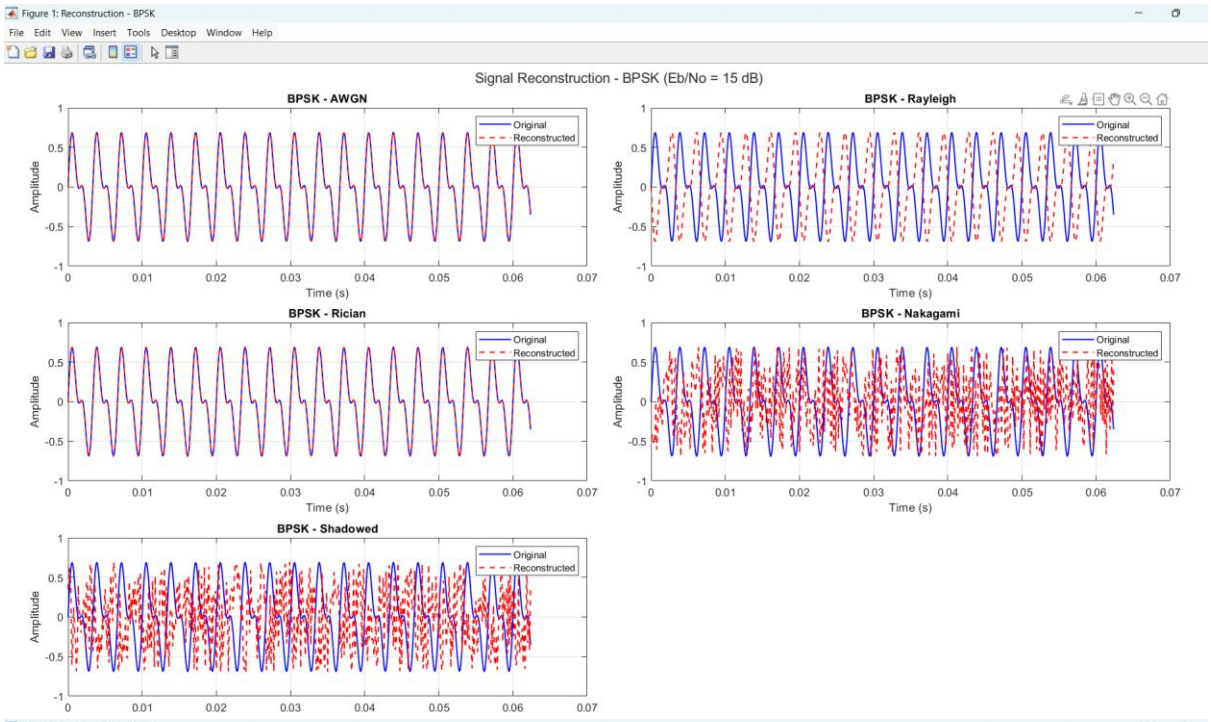


Figure 1: Reconstruction - BPSK
File Edit View Insert Tools Desktop Window Help
Signal Reconstruction - BPSK (Eb/No = 15 dB)
BPSK - AWGN
BPSK - Rayleigh
BPSK - Rician
BPSK - Nakagami
BPSK - Shadowed
Original
Reconstructed
Amplitude
Time (s)

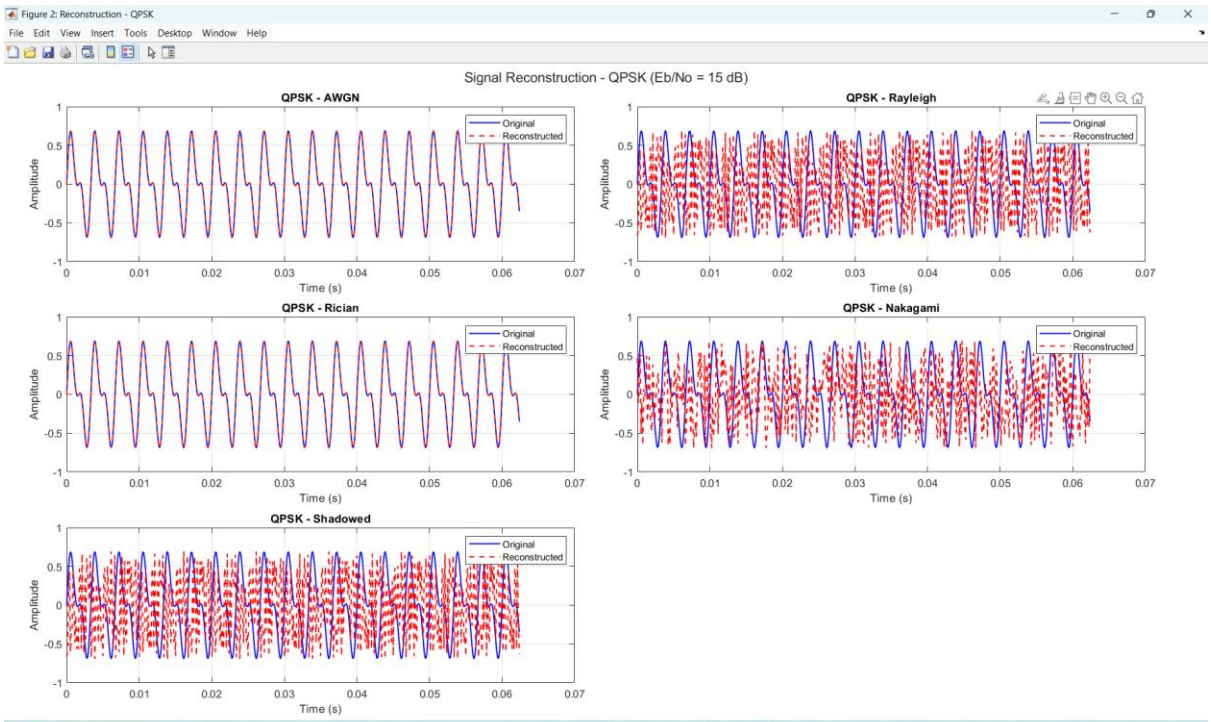


Figure 2: Reconstruction - QPSK
File Edit View Insert Tools Desktop Window Help
Signal Reconstruction - QPSK (Eb/No = 15 dB)
QPSK - AWGN
QPSK - Rayleigh
QPSK - Rician
QPSK - Nakagami
QPSK - Shadowed
Original
Reconstructed
Amplitude
Time (s)


22°C
Mostly clear
Search
ENG
IN
22:50
11-07-2025

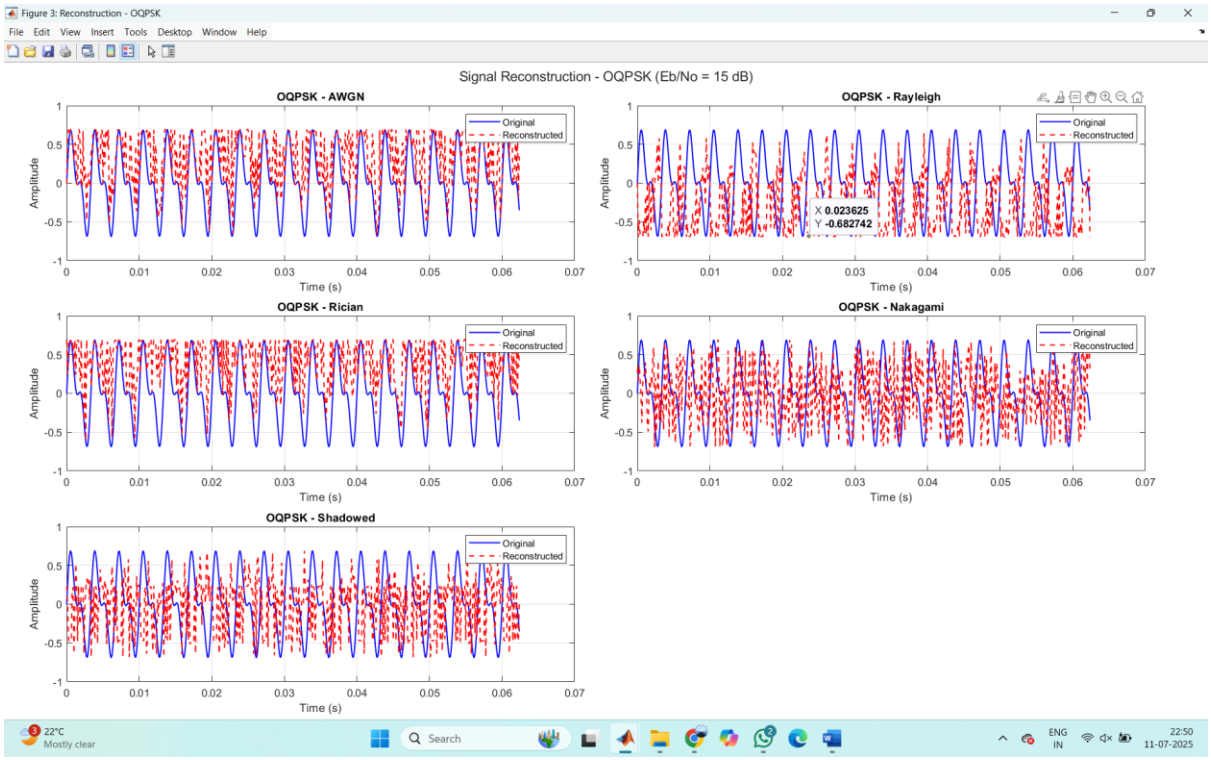


Figure 3: Reconstruction - OQPSK
File Edit View Insert Tools Desktop Window Help
Signal Reconstruction - OQPSK (Eb/No = 15 dB)
OQPSK - AWGN
OQPSK - Rayleigh
OQPSK - Rician
OQPSK - Nakagami
OQPSK - Shadowed
Original
Reconstructed
Amplitude
Time (s)
X 0.023625
Y -0.682742
22°C
Mostly clear
Search
ENG
IN
22:50
11-07-2025

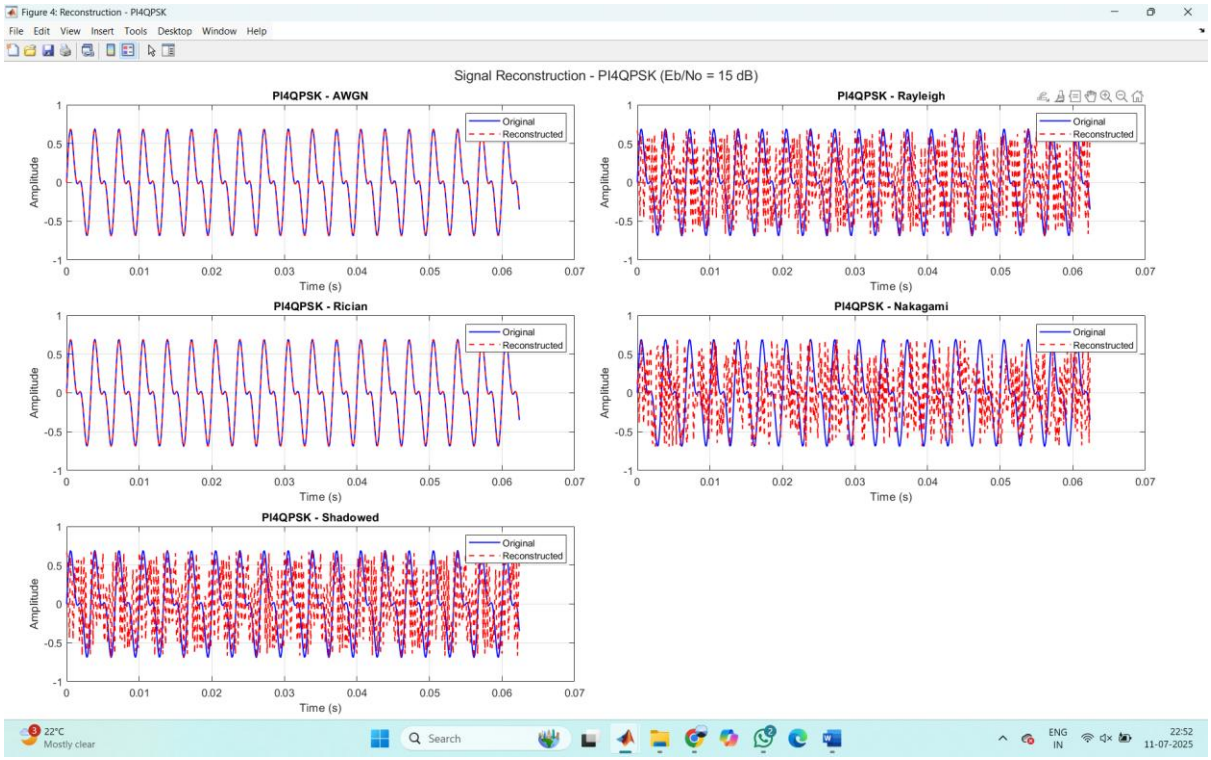


Figure 4: Reconstruction - PI4QPSK
File Edit View Insert Tools Desktop Window Help
Signal Reconstruction - PI4QPSK (Eb/No = 15 dB)
PI4QPSK - AWGN
PI4QPSK - Rayleigh
PI4QPSK - Rician
PI4QPSK - Nakagami
PI4QPSK - Shadowed
Original
Reconstructed
Amplitude
Time (s)
22°C
Mostly clear
Search
ENG
IN
22:52
11-07-2025

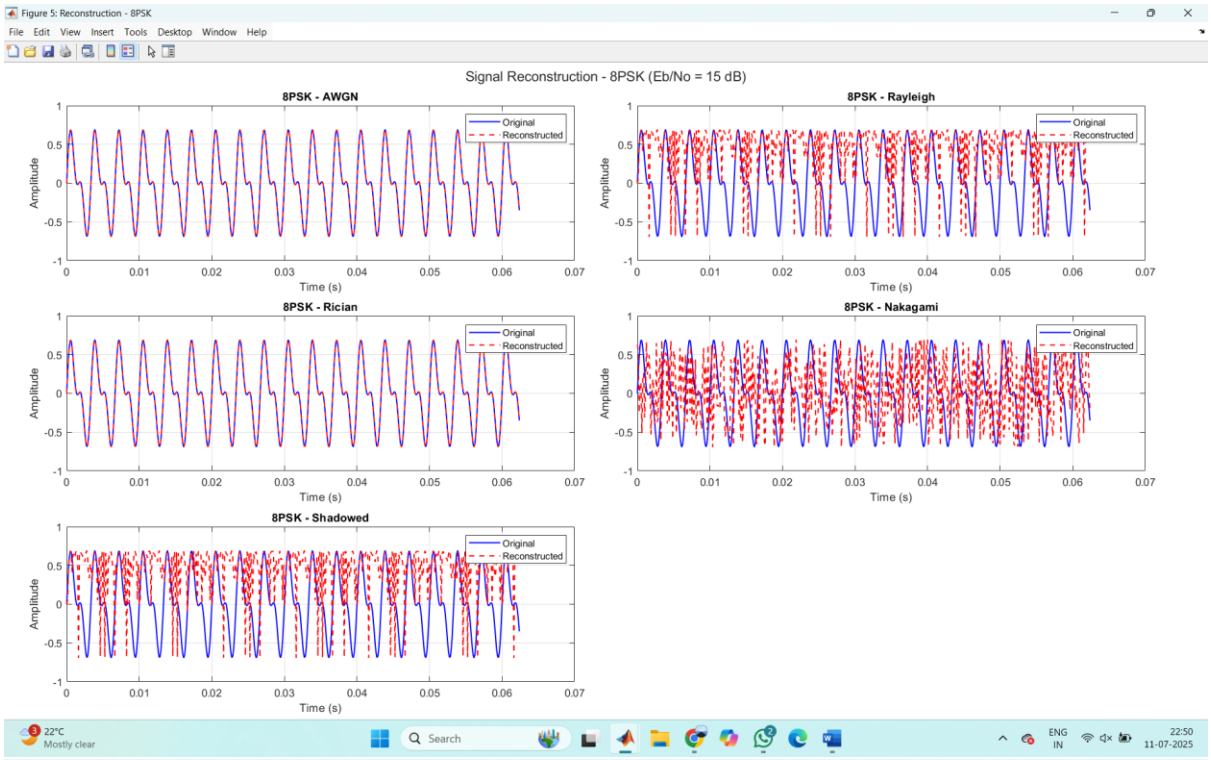


Figure 5: Reconstruction - 8PSK
File Edit View Insert Tools Desktop Window Help
Signal Reconstruction - 8PSK (Eb/No = 15 dB)
8PSK - AWGN
8PSK - Rayleigh
8PSK - Rician
8PSK - Nakagami
8PSK - Shadowed
Original
Reconstructed
Amplitude
Time (s)
22°C
Mostly clear
Search
ENG
IN
22:50
11-07-2025

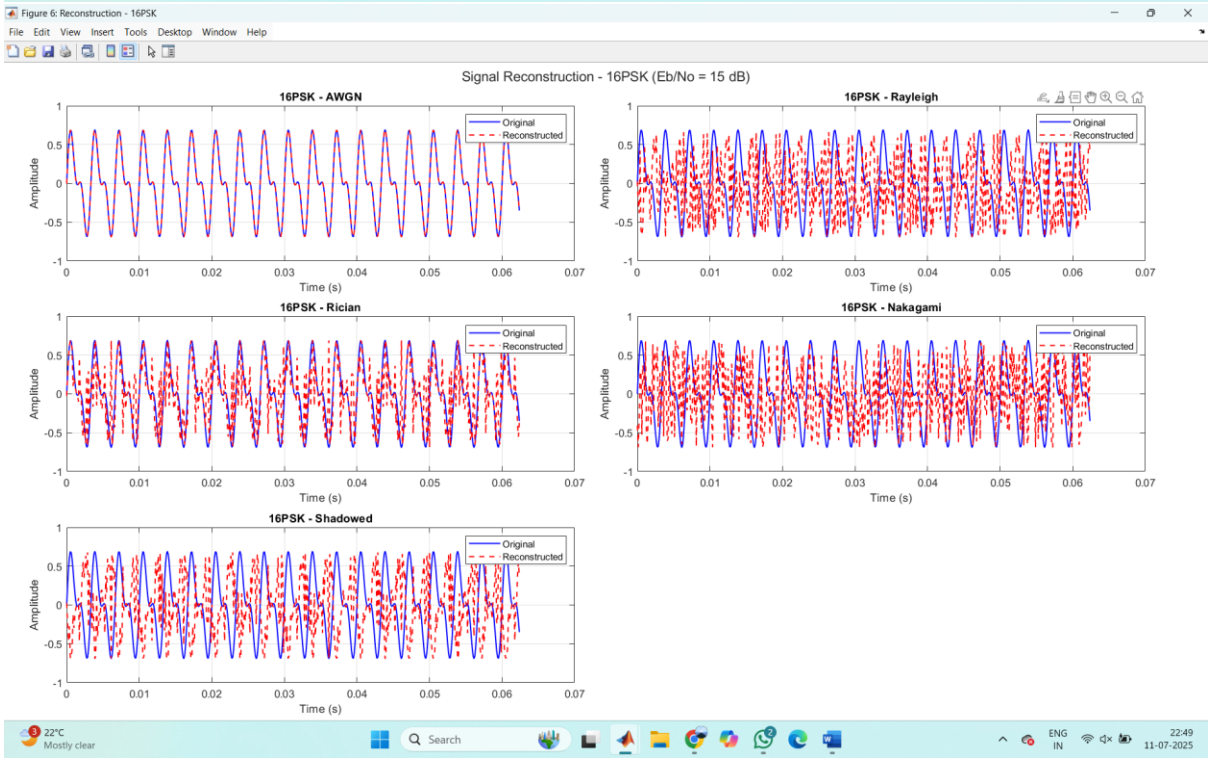


Figure 6: Reconstruction - 16PSK
File Edit View Insert Tools Desktop Window Help
Signal Reconstruction - 16PSK (Eb/No = 15 dB)
16PSK - AWGN
16PSK - Rayleigh
16PSK - Rician
16PSK - Nakagami
16PSK - Shadowed
Original
Reconstructed
Amplitude
Time (s)
22°C
Mostly clear
Search
ENG
IN
22:49
11-07-2025

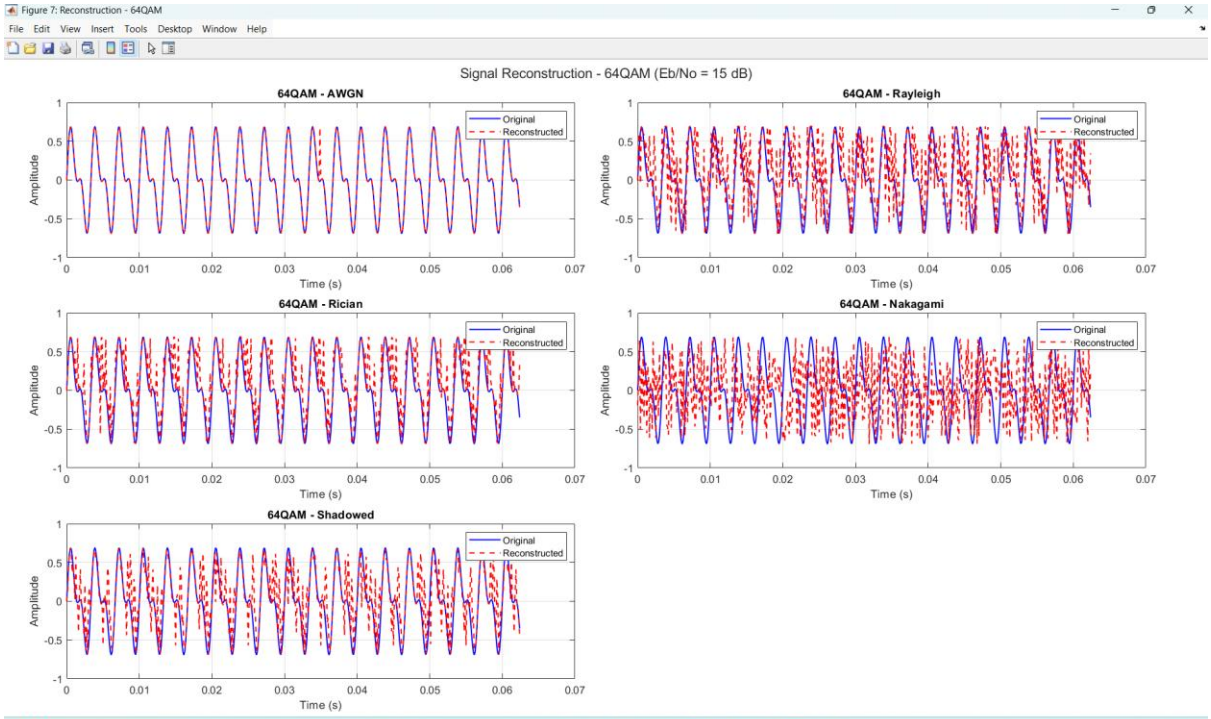


Figure 7: Reconstruction - 64QAM
File Edit View Insert Tools Desktop Window Help
Signal Reconstruction - 64QAM (Eb/No = 15 dB)
64QAM - AWGN
64QAM - Rayleigh
64QAM - Rician
64QAM - Nakagami
64QAM - Shadowed
Original
Reconstructed
Amplitude
Time (s)

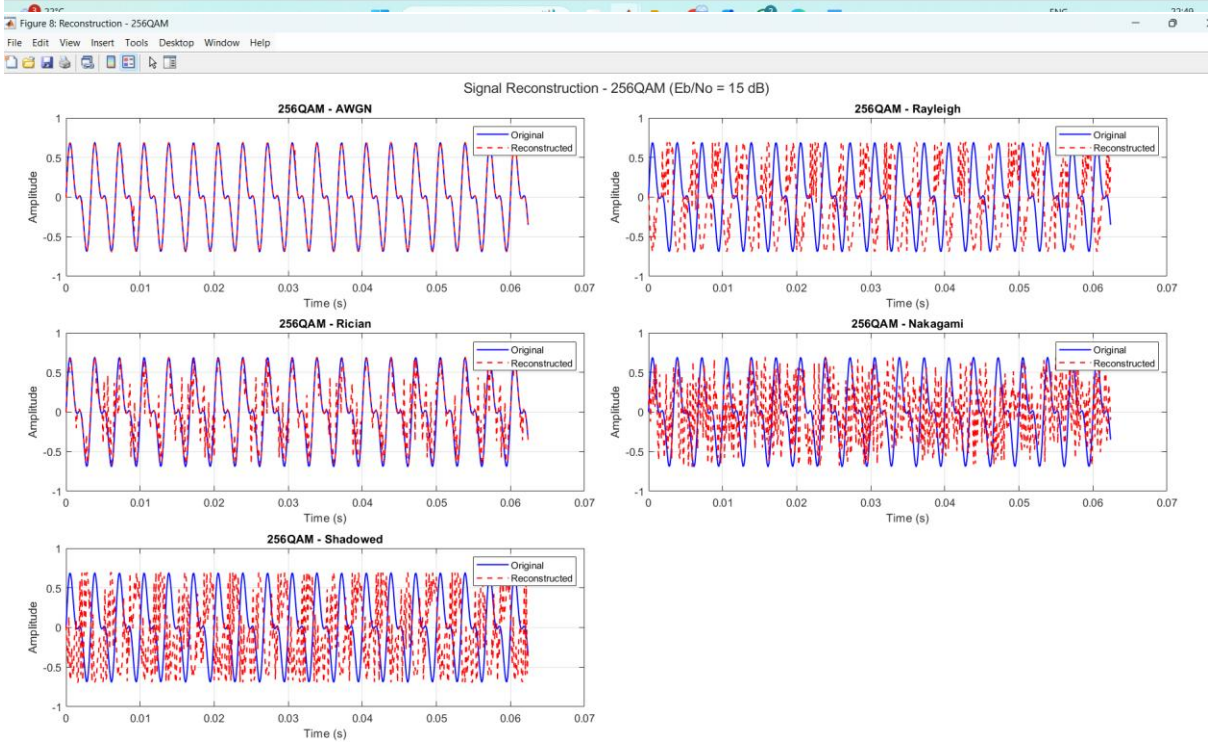


Figure 8: Reconstruction - 256QAM
File Edit View Insert Tools Desktop Window Help
Signal Reconstruction - 256QAM (Eb/No = 15 dB)
256QAM - AWGN
256QAM - Rayleigh
256QAM - Rician
256QAM - Nakagami
256QAM - Shadowed
Original
Reconstructed
Amplitude
Time (s)

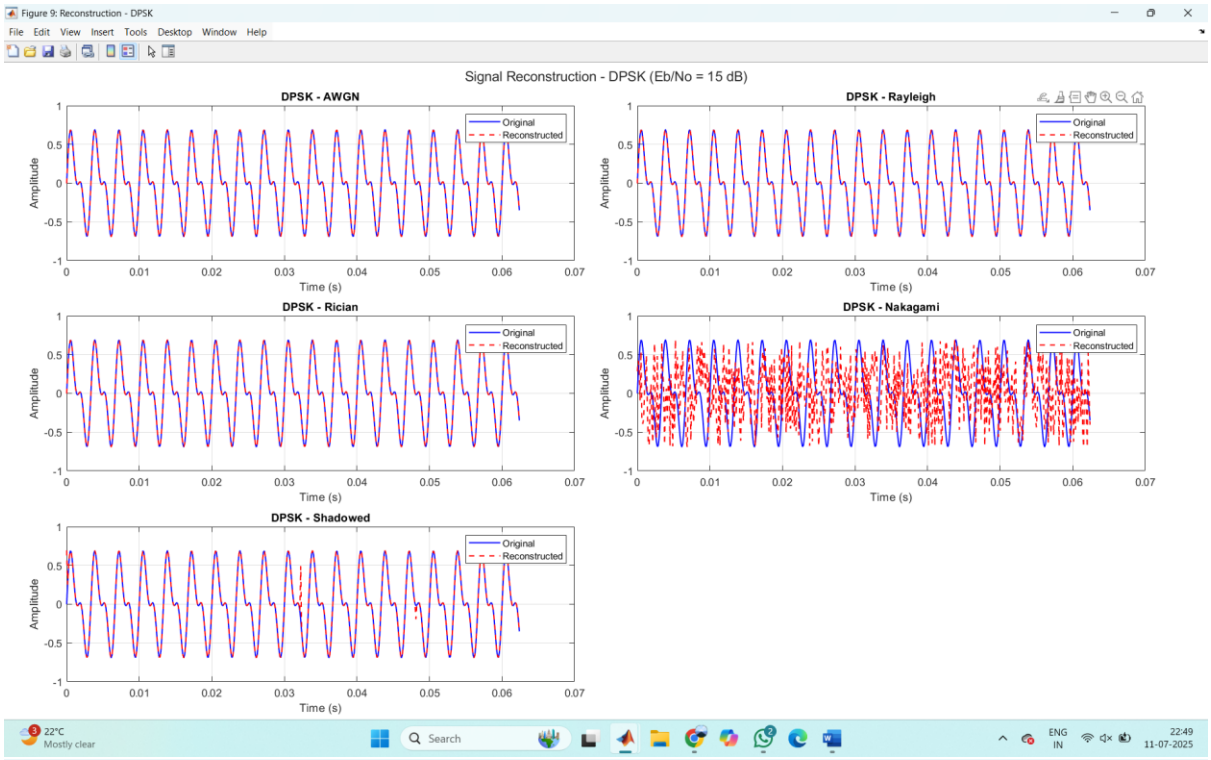


Figure 9: Reconstruction - DPSK
File Edit View Insert Tools Desktop Window Help
Signal Reconstruction - DPSK (Eb/No = 15 dB)
DPSK - AWGN
DPSK - Rayleigh
DPSK - Rician
DPSK - Nakagami
DPSK - Shadowed
Original
Reconstructed
Amplitude
Time (s)
22°C
Mostly clear
Search
ENG
IN
22:49
11-07-2025

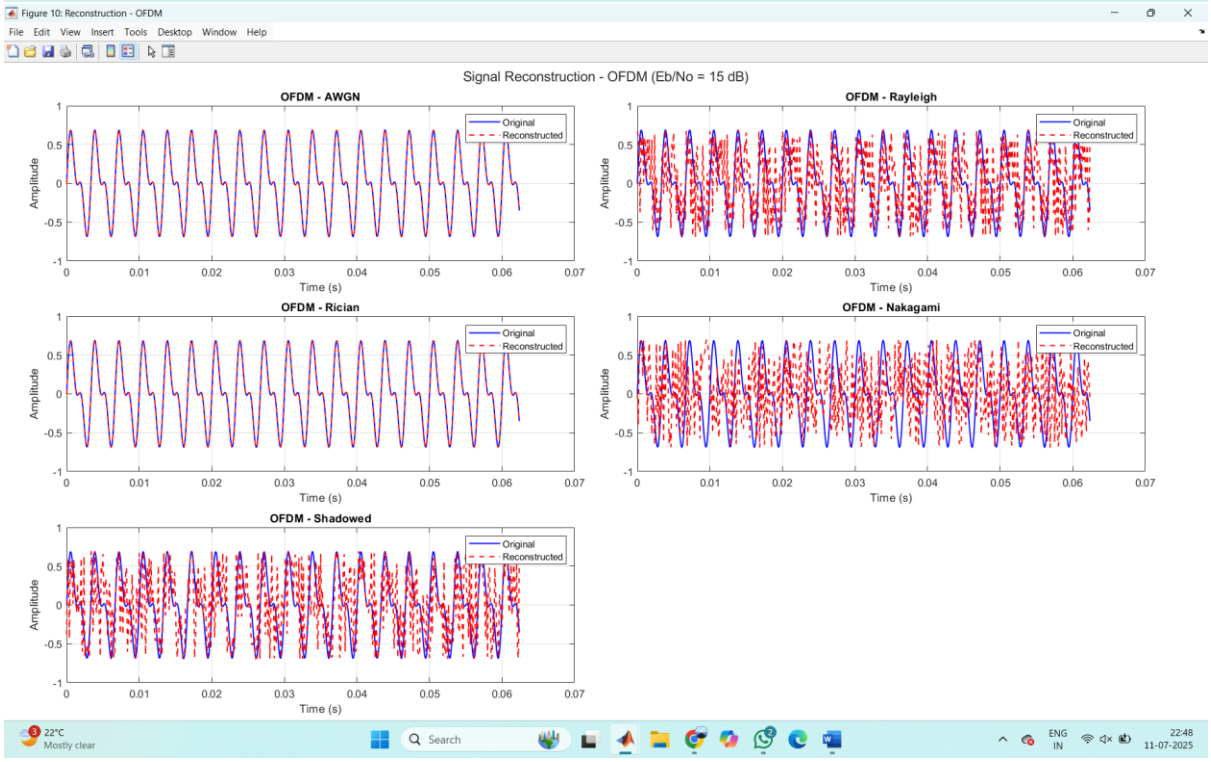


Figure 10: Reconstruction - OFDM
File Edit View Insert Tools Desktop Window Help
Signal Reconstruction - OFDM (Eb/No = 15 dB)
OFDM - AWGN
OFDM - Rayleigh
OFDM - Rician
OFDM - Nakagami
OFDM - Shadowed
Original
Reconstructed
Amplitude
Time (s)
22°C
Mostly clear
Search
ENG
IN
22:48
11-07-2025

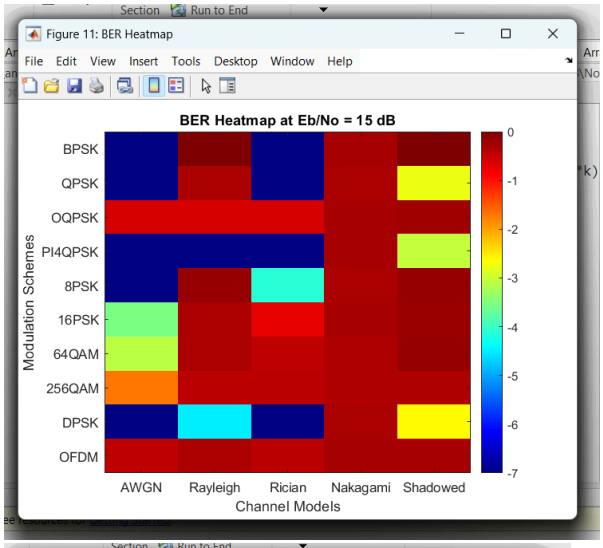


Figure 11: BER Heatmap
File Edit View Insert Tools Desktop Window Help
BER Heatmap at Eb/No = 15 dB
BPSK
QPSK
OQPSK
PI4QPSK
8PSK
16PSK
64QAM
256QAM
DPSK
OFDM
Modulation Schemes
AWGN Rayleigh Rician Nakagami Shadowed
Channel Models
0 -1 -2 -3 -4 -5 -6 -7

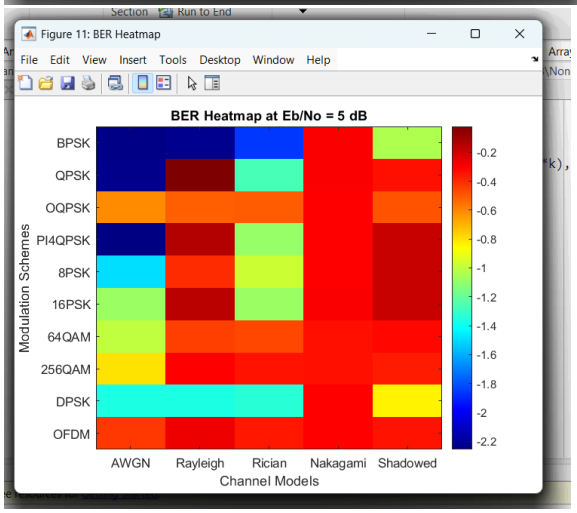


Figure 11: BER Heatmap
File Edit View Insert Tools Desktop Window Help
BER Heatmap at Eb/No = 5 dB
BPSK
QPSK
OQPSK
PI4QPSK
8PSK
16PSK
64QAM
256QAM
DPSK
OFDM
Modulation Schemes
AWGN Rayleigh Rician Nakagami Shadowed
Channel Models
-0.2 -0.4 -0.6 -0.8 -1 -1.2 -1.4 -1.6 -1.8 -2 -2.2

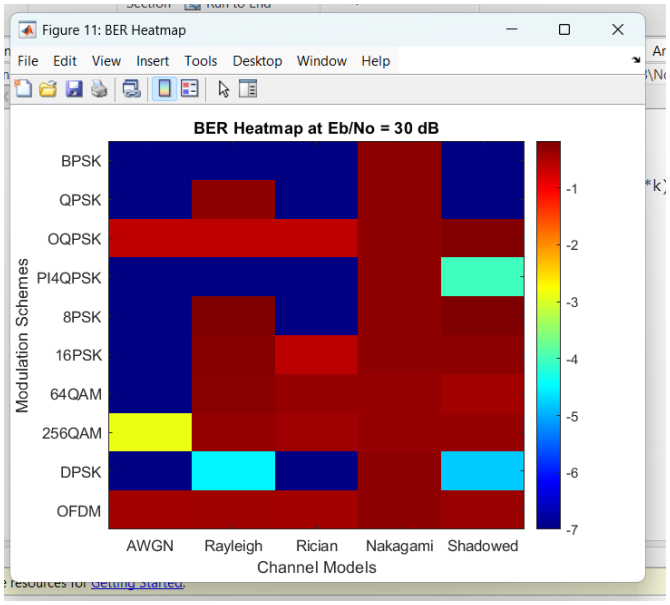
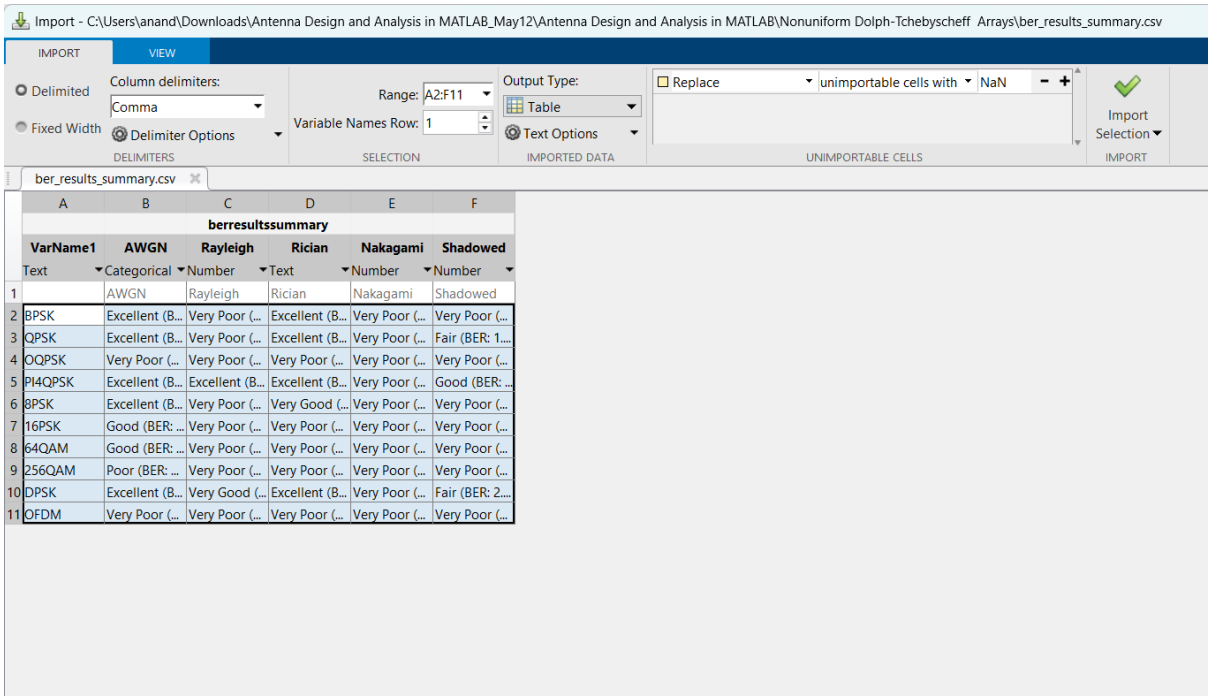


Figure 11: BER Heatmap
File Edit View Insert Tools Desktop Window Help
BER Heatmap at Eb/No = 30 dB
BPSK
QPSK
OQPSK
PI4QPSK
8PSK
16PSK
64QAM
256QAM
DPSK
OFDM
Modulation Schemes
AWGN Rayleigh Rician Nakagami Shadowed
Channel Models
-1 -2 -3 -4 -5 -6 -7




| | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| | berresultssummary | | | | | |
| | VarName1 | AWGN | Rayleigh | Rician | Nakagami | Shadowed |
| | Text | Categorical | Number | Text | Number | Number |
| 1 | | AWGN | Rayleigh | Rician | Nakagami | Shadowed |
| 2 | BPSK | Excellent (B... | Very Poor (... | Excellent (B... | Very Poor (... | Very Poor (... |
| 3 | QPSK | Excellent (B... | Very Poor (... | Excellent (B... | Very Poor (... | Fair (BER: 1.... |
| 4 | OQPSK | Very Poor (... | Very Poor (... | Very Poor (... | Very Poor (... | Very Poor (... |
| 5 | PI4QPSK | Excellent (B... | Excellent (B... | Excellent (B... | Very Poor (... | Good (BER: ... |
| 6 | 8PSK | Excellent (B... | Very Poor (... | Very Good (... | Very Poor (... | Very Poor (... |
| 7 | 16PSK | Good (BER: ... | Very Poor (... | Very Poor (... | Very Poor (... | Very Poor (... |
| 8 | 64QAM | Good (BER: ... | Very Poor (... | Very Poor (... | Very Poor (... | Very Poor (... |
| 9 | 256QAM | Poor (BER: ... | Very Poor (... | Very Poor (... | Very Poor (... | Very Poor (... |
| 10 | DPSK | Excellent (B... | Very Good (... | Excellent (B... | Very Poor (... | Fair (BER: 2.... |
| 11 | OFDM | Very Poor (... | Very Poor (... | Very Poor (... | Very Poor (... | Very Poor (... |