

50Gbps NRZ Measurement Results

Big Ticket Items

- C2C CDAUI-8 proposals
 - NRZ: palkert_3bs_02_0115.pdf
 - Actions:
 - Test data from industry products, when available
- C2M CDAUI-8 proposals
 - NRZ: palkert_3bs_01_0115.pdf
 - Actions:
 - Test data from industry products, when available

Jeff Twombly (Credo Semiconductor)

IEEE 802.3bs 400G Task Force Meeting, March 2015

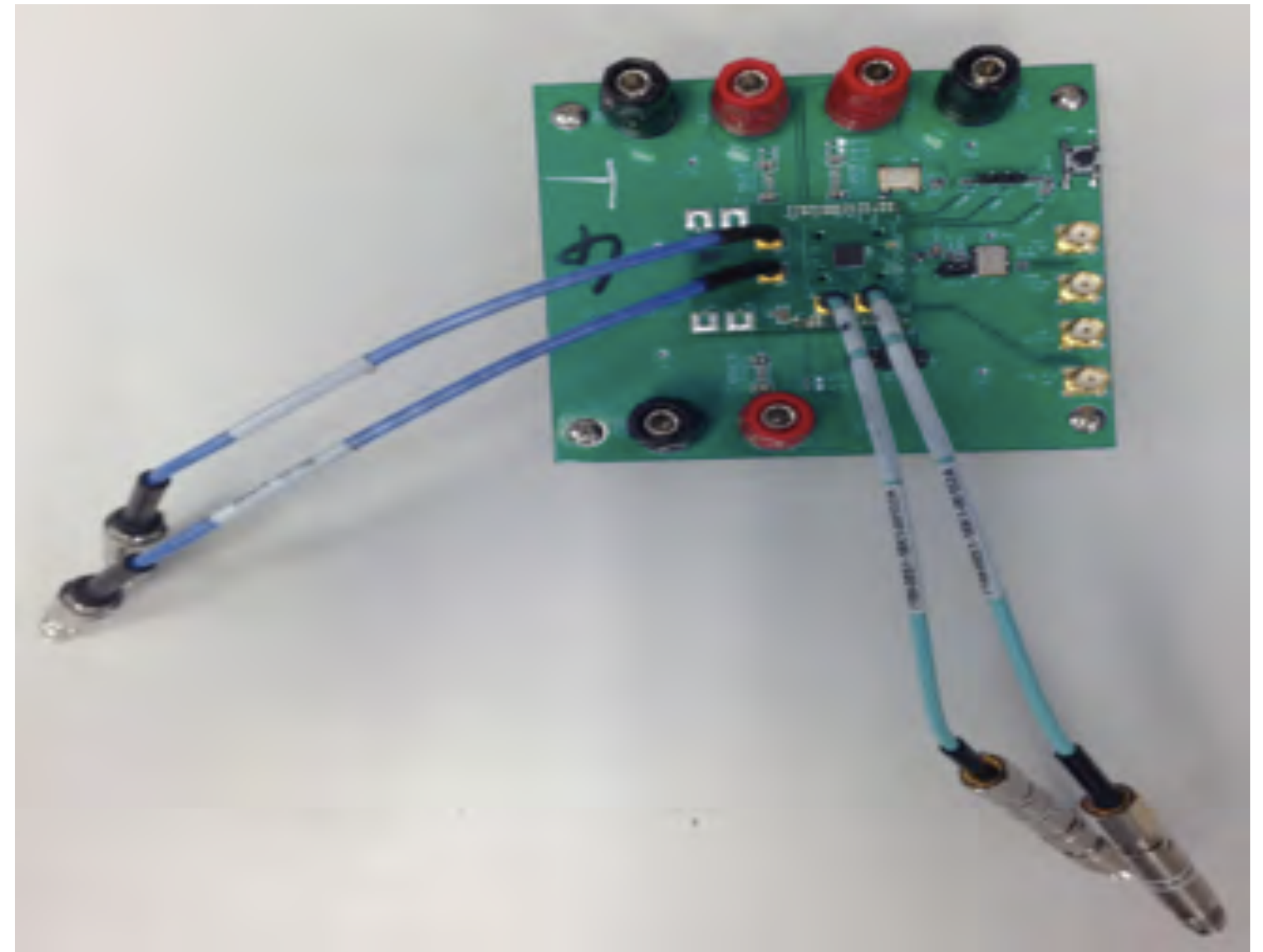
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 - Oded Wertheim (Mellanox)
 - Graeme Boyd (PMC-Sierra)
 - Scott Irwin (MoSys)
 - Tom Palkert (MoSys)

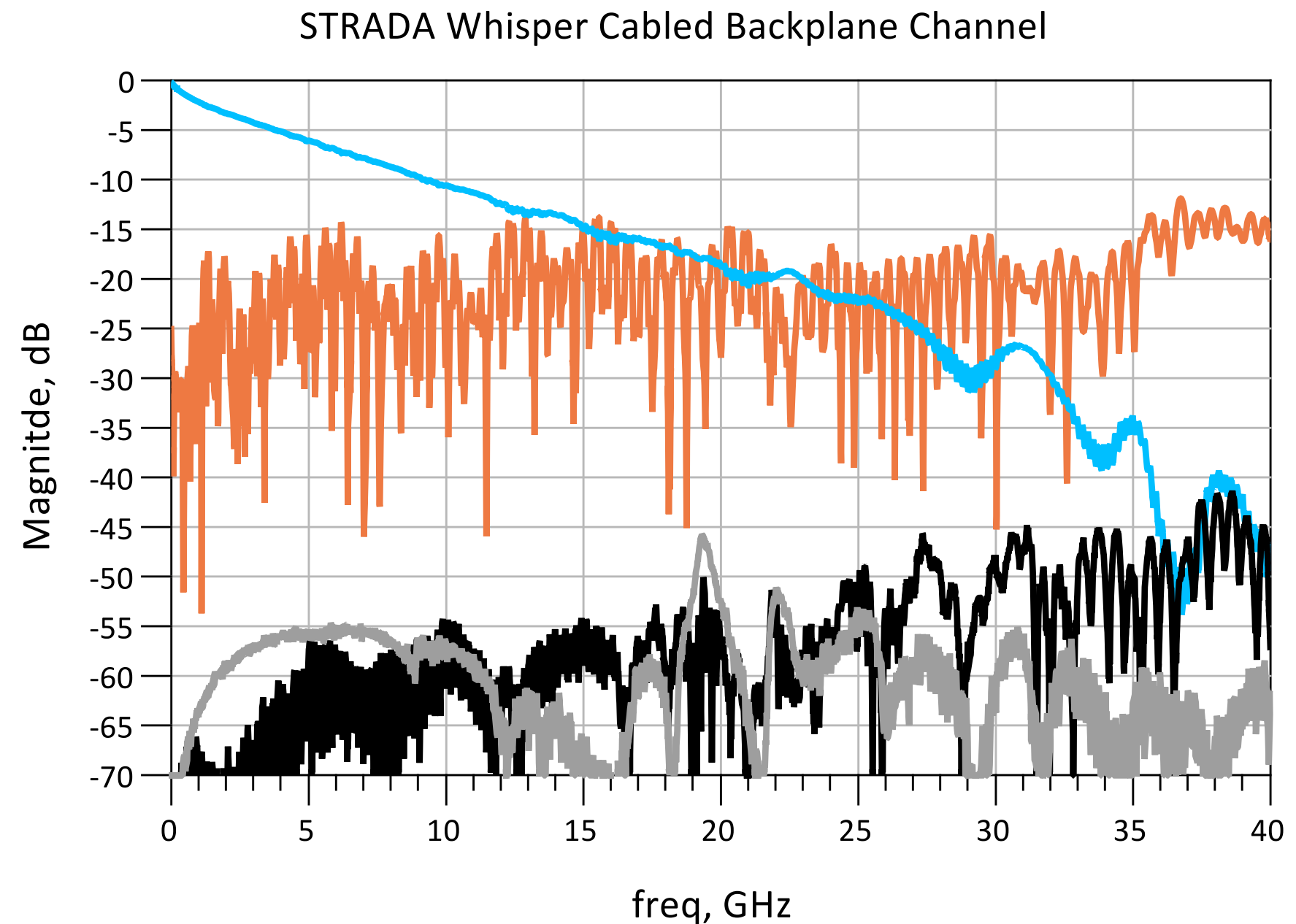
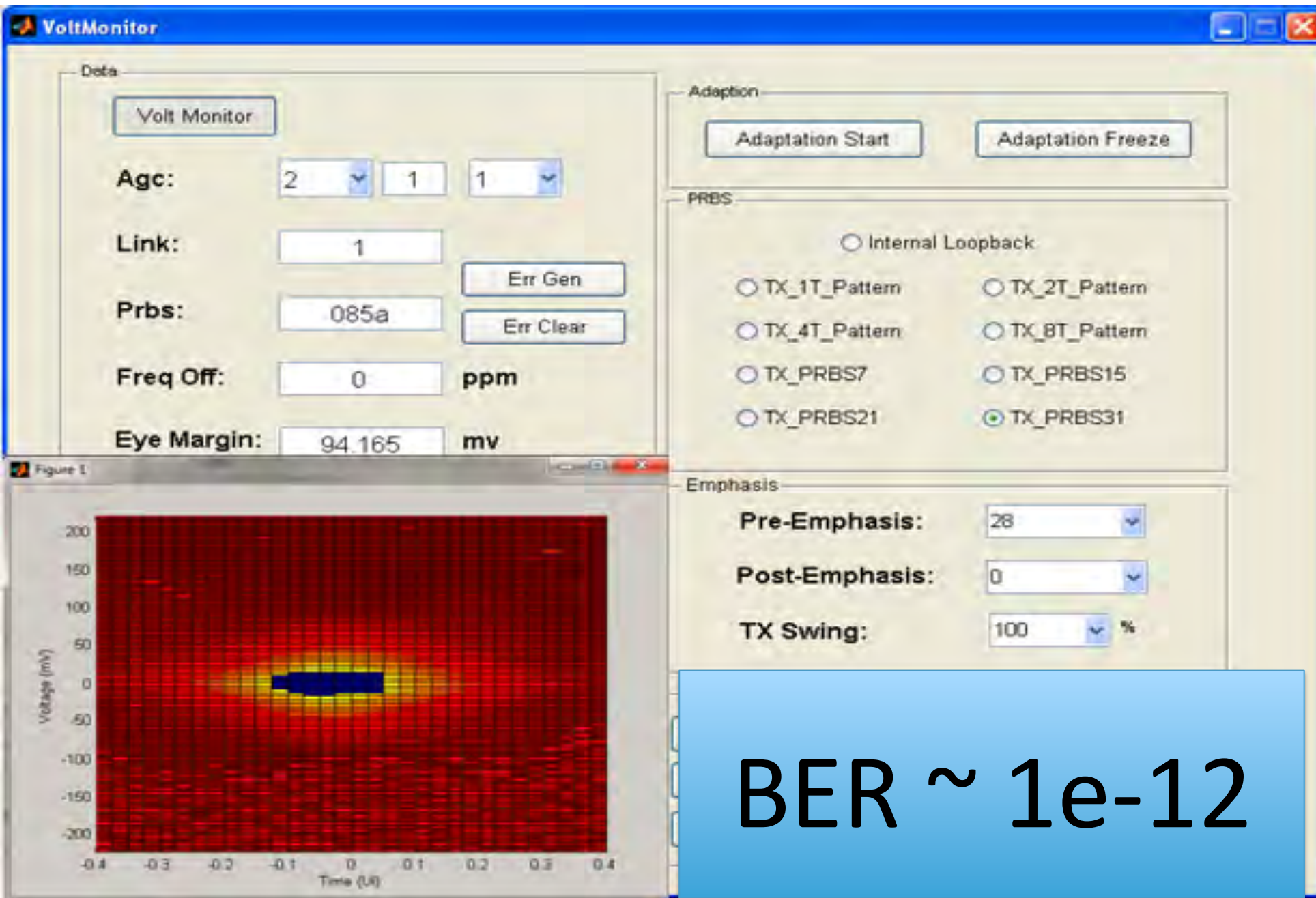
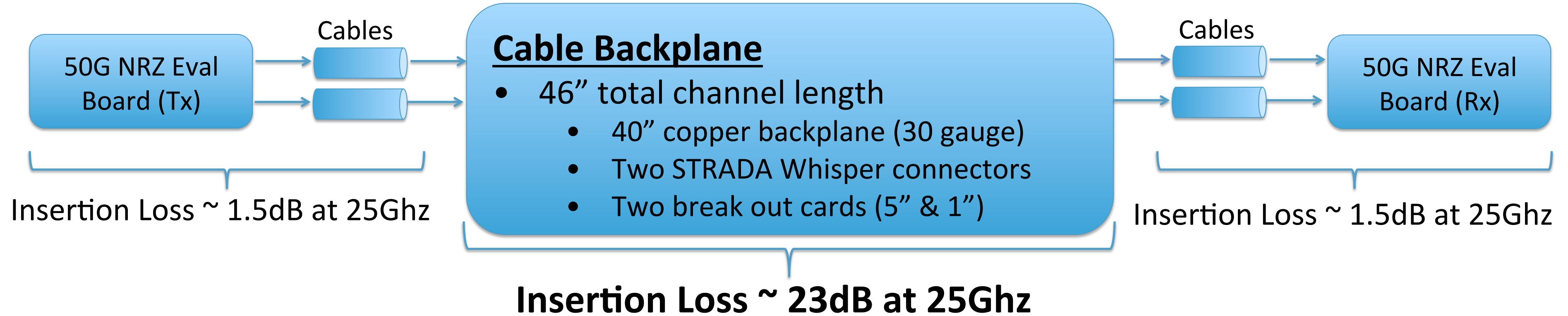
Measured Results

Credo 50Gbps Evaluation Board

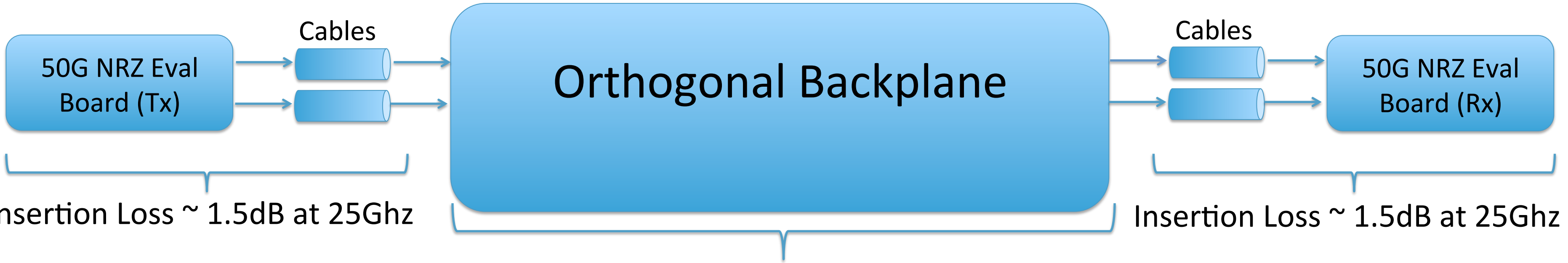
- 40nm
- No FEC
- Internal PRBS31
 - Generation and checking



Cable Backplane Demo

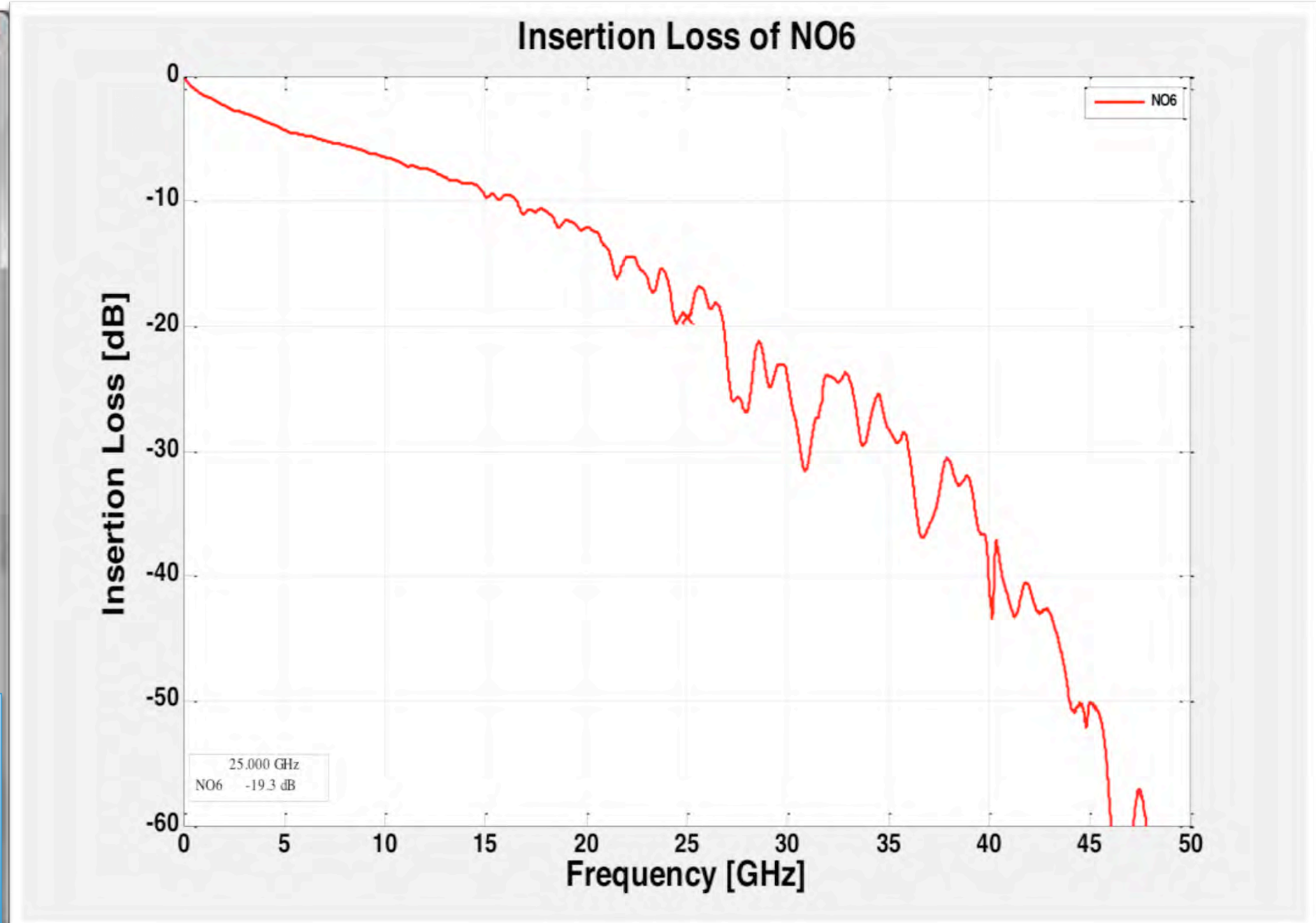


Orthogonal Backplane Demo

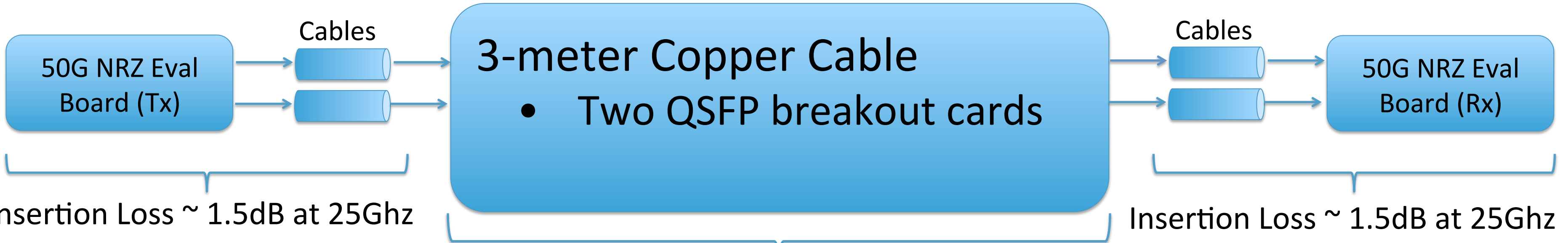


Insertion Loss ~20dB at 25Gh

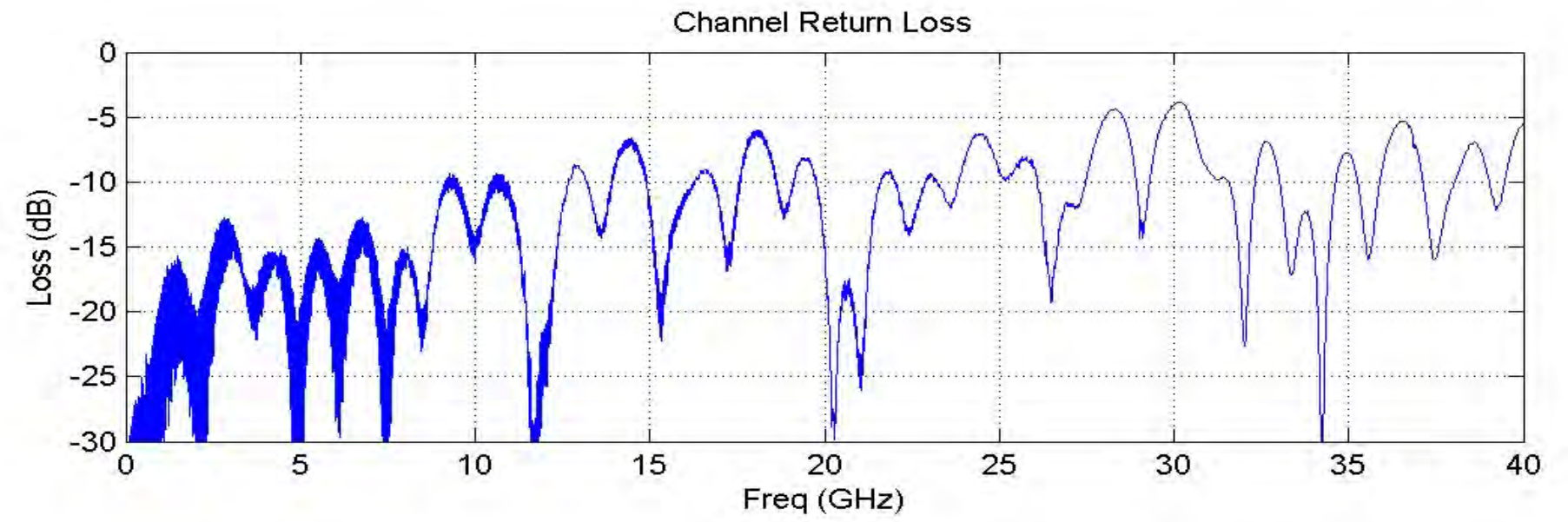
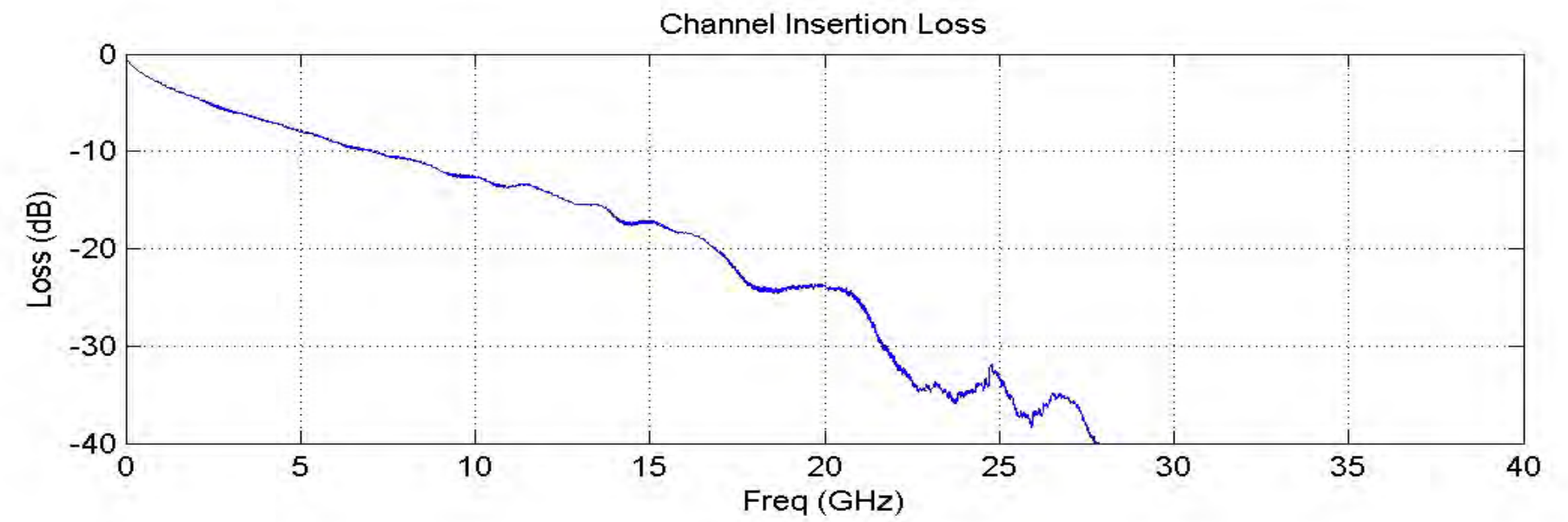
BER < 1e-15



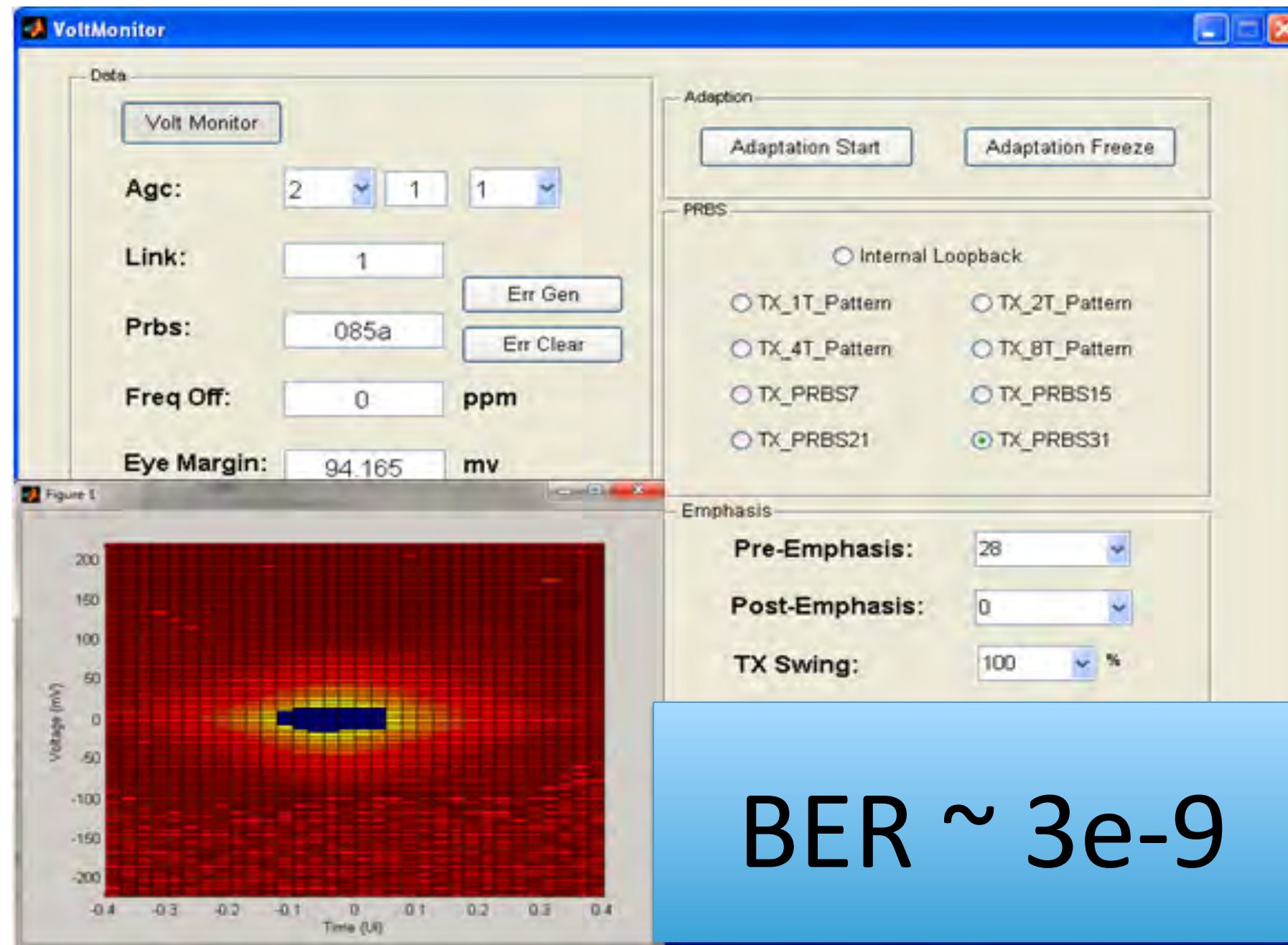
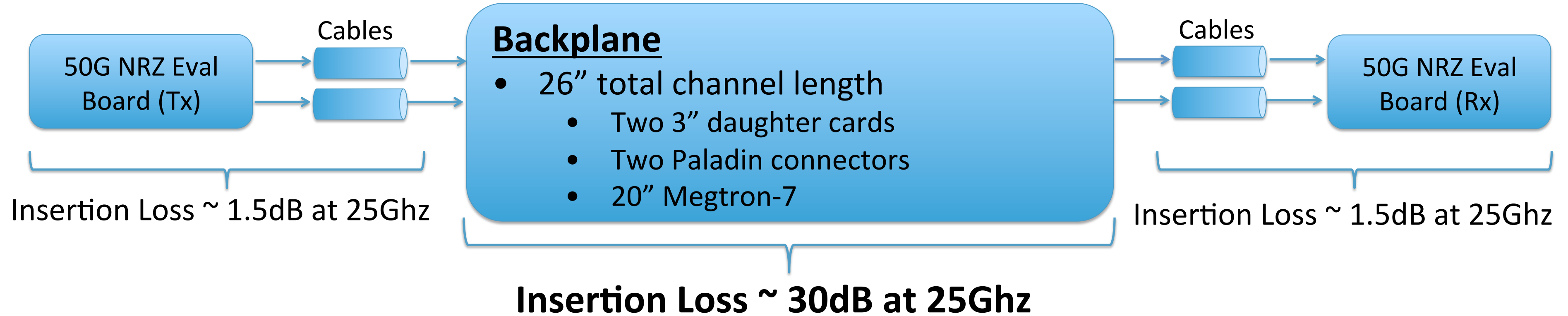
Copper Cable Demo



BER ~ 1e-8

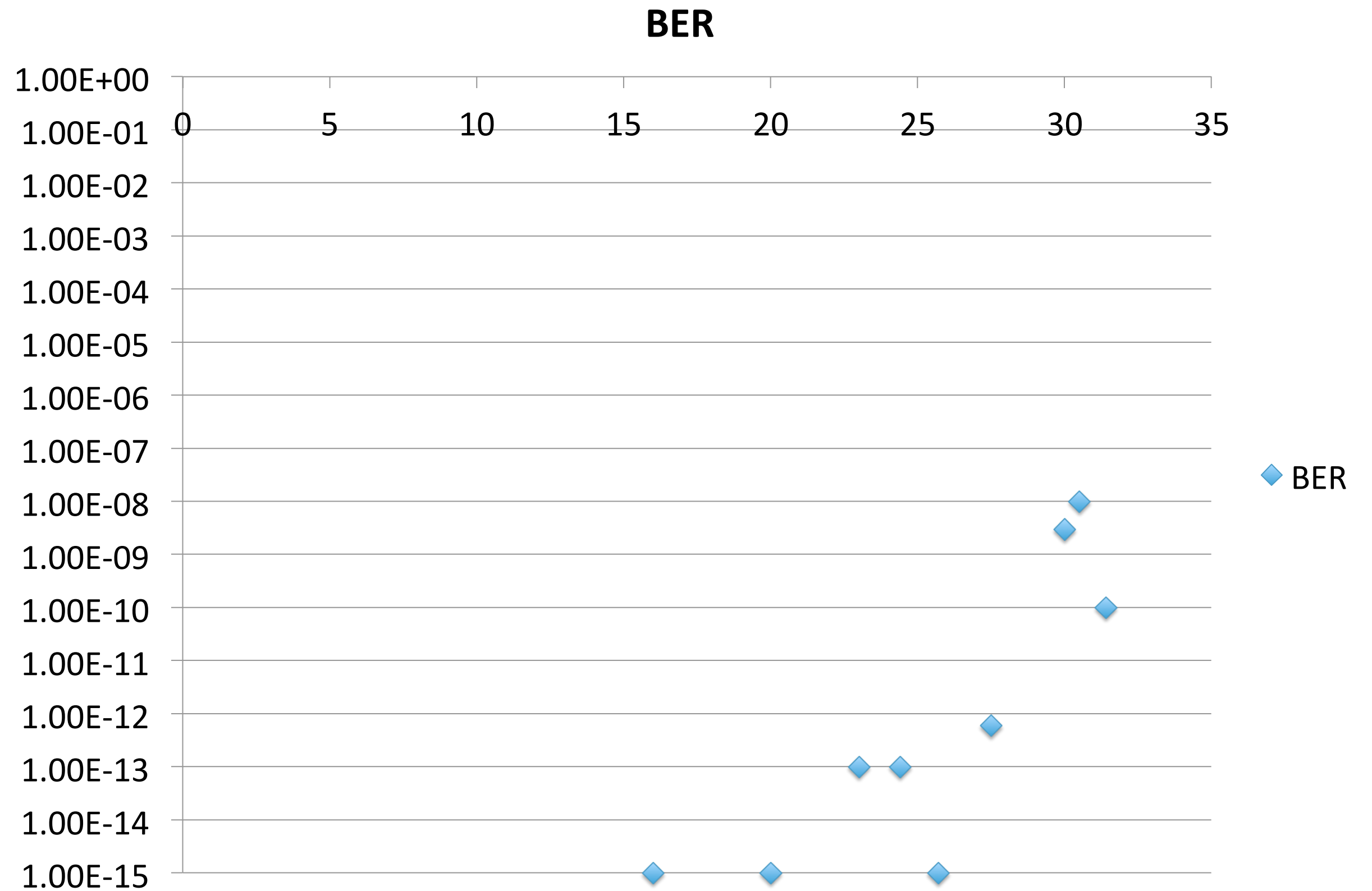


Backplane Demo



BER / Insertion Loss Summary Table

Channel Loss	BER (No FEC)
16	1.00E-15
20	1.00E-15
23	1.00E-13
24.4	1.00E-13
25.7	1.00E-15
27.5	6.00E-13
30	3.00E-09
30.5	1.00E-08
31.4	1.00E-10



Thank You