

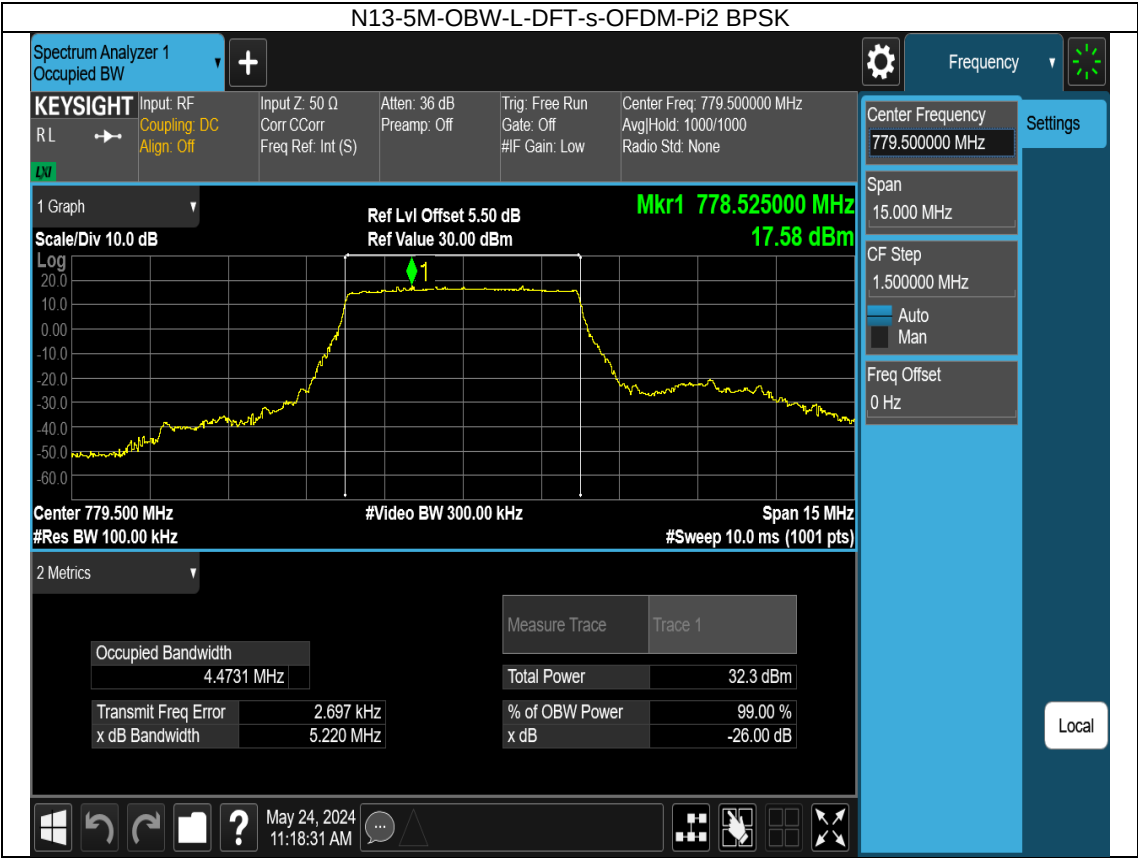
99% & 26dB Bandwidth

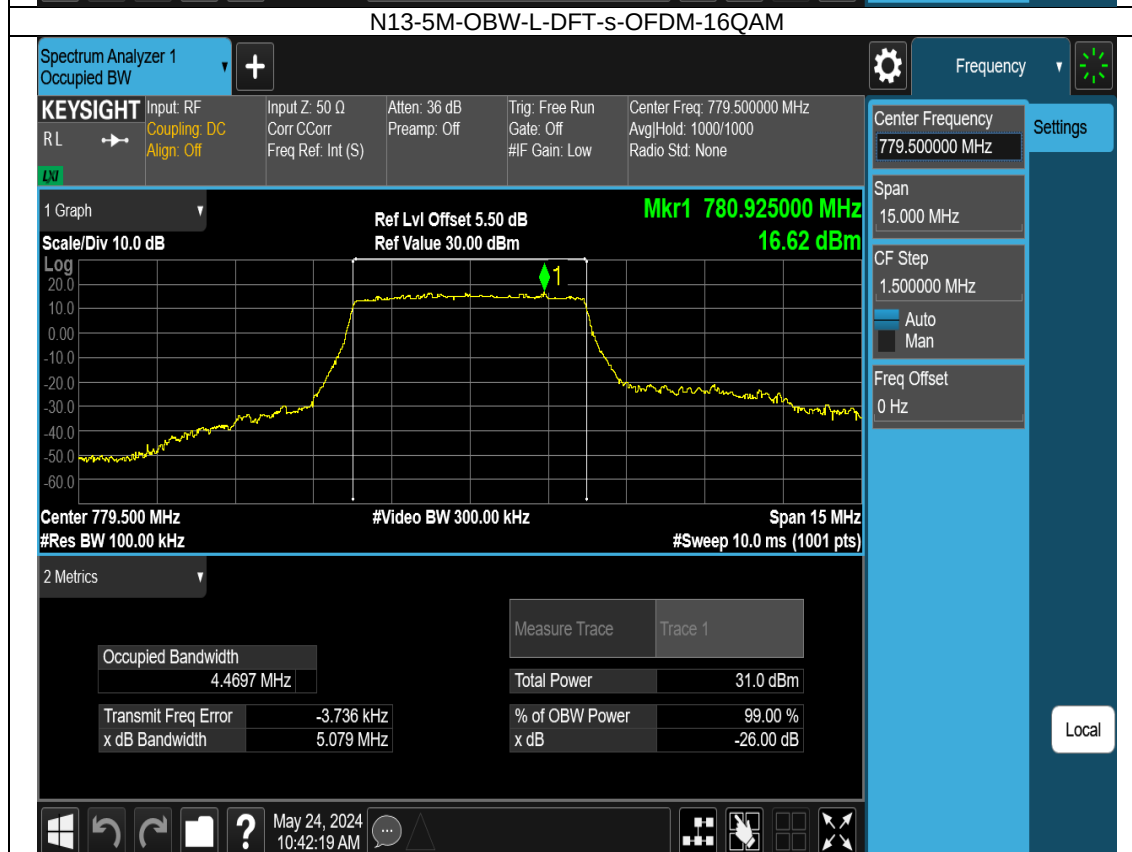
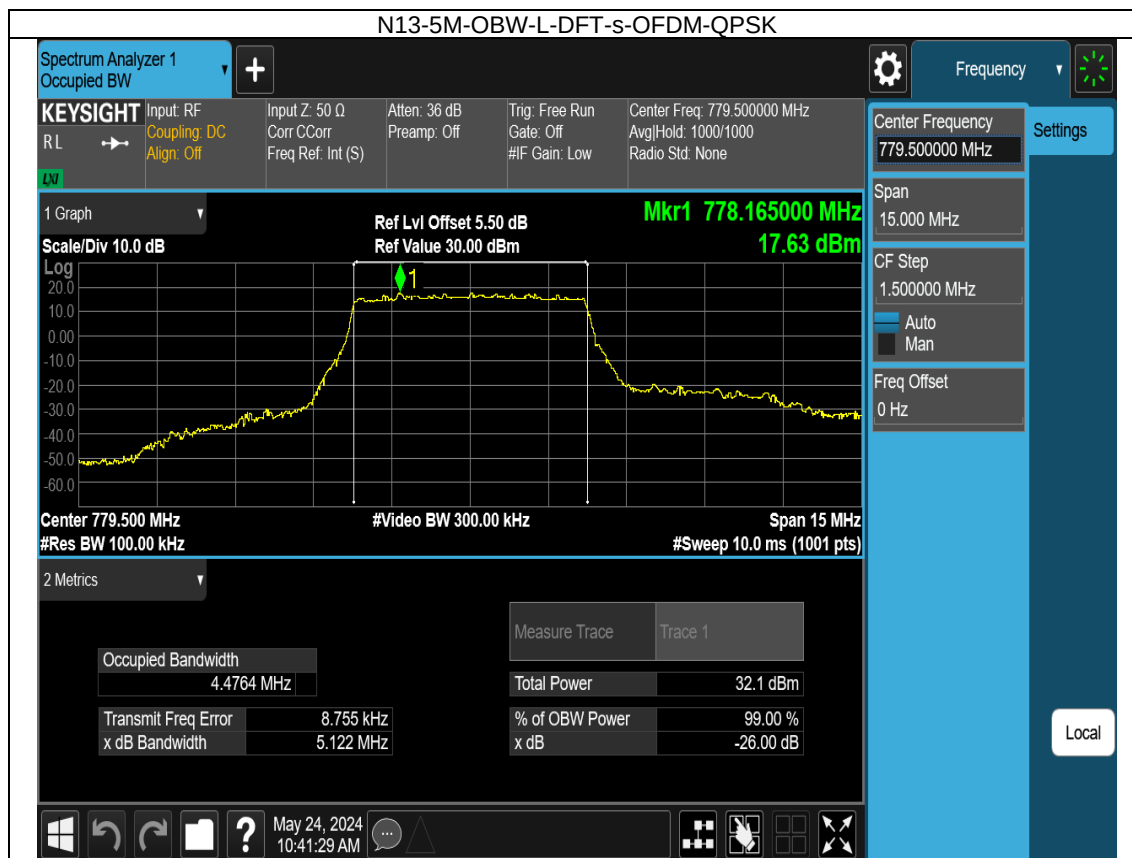
Test Result

5G NR n13 SCS=15kHz 5MHz						
Modulation	CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	Low CH	Outer_Full	4.473	5.220	/	Pass
DFT-s-OFDM QPSK		Outer_Full	4.476	5.122	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	4.470	5.079	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	4.496	5.176	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	4.471	5.107	/	Pass
CP-OFDM QPSK		Outer_Full	4.493	5.126	/	Pass
CP-OFDM 16QAM		Outer_Full	4.483	5.155	/	Pass
CP-OFDM 64QAM		Outer_Full	4.482	5.202	/	Pass
CP-OFDM 256QAM		Outer_Full	4.485	5.148	/	Pass
DFT-s-OFDM PI/2 BPSK	Middle CH	Outer_Full	4.508	5.245	/	Pass
DFT-s-OFDM QPSK		Outer_Full	4.484	5.081	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	4.492	5.246	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	4.509	5.191	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	4.498	5.173	/	Pass
CP-OFDM QPSK		Outer_Full	4.503	5.164	/	Pass
CP-OFDM 16QAM		Outer_Full	4.523	5.138	/	Pass
CP-OFDM 64QAM		Outer_Full	4.505	5.170	/	Pass
CP-OFDM 256QAM		Outer_Full	4.505	5.193	/	Pass
DFT-s-OFDM PI/2 BPSK	High CH	Outer_Full	4.524	5.303	/	Pass
DFT-s-OFDM QPSK		Outer_Full	4.502	5.294	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	4.481	5.138	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	4.504	5.161	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	4.491	5.141	/	Pass
CP-OFDM QPSK		Outer_Full	4.524	5.260	/	Pass
CP-OFDM 16QAM		Outer_Full	4.490	5.089	/	Pass
CP-OFDM 64QAM		Outer_Full	4.523	5.221	/	Pass
CP-OFDM 256QAM		Outer_Full	4.492	5.132	/	Pass

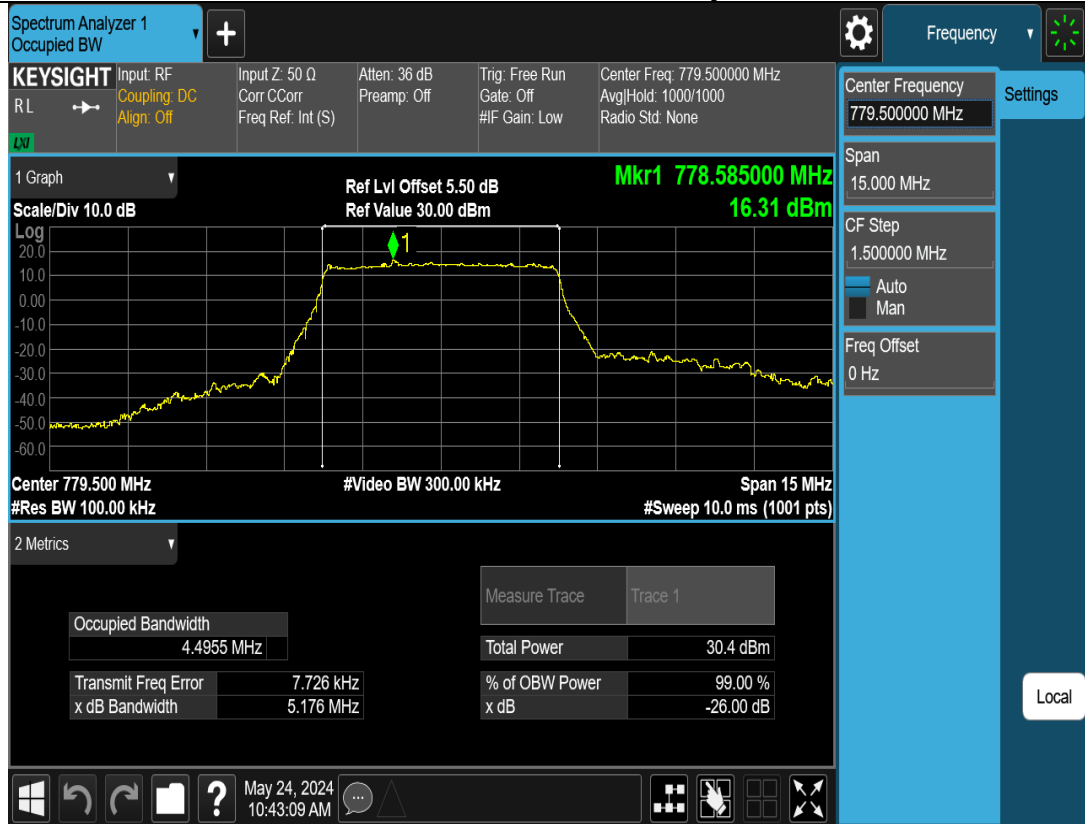
5G NR n13 SCS=15kHz 10MHz						
Modulation	CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	Middle CH	Outer_Full	8.944	9.715	/	Pass
DFT-s-OFDM QPSK		Outer_Full	8.931	9.657	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	8.938	9.571	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	8.951	9.793	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	8.933	9.738	/	Pass
CP-OFDM QPSK		Outer_Full	8.940	9.725	/	Pass
CP-OFDM 16QAM		Outer_Full	9.305	10.05	/	Pass
CP-OFDM 64QAM		Outer_Full	9.293	10.07	/	Pass
CP-OFDM 256QAM		Outer_Full	9.301	10.05	/	Pass

Test graph

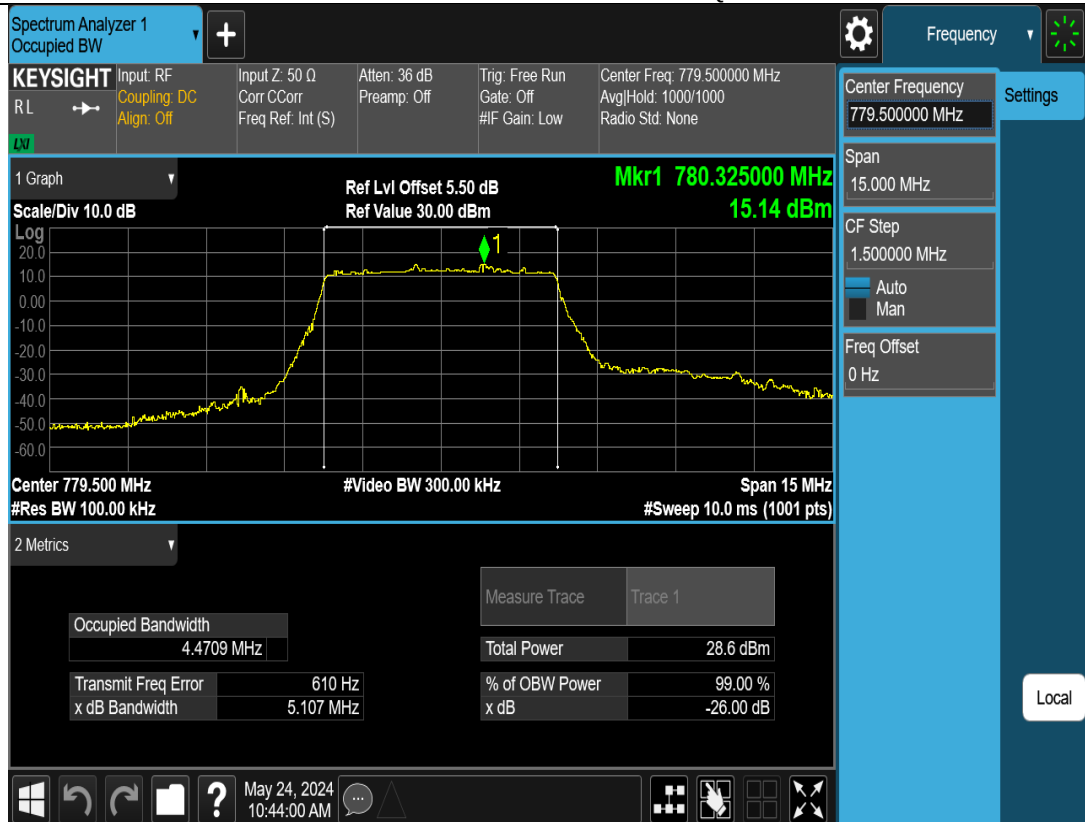


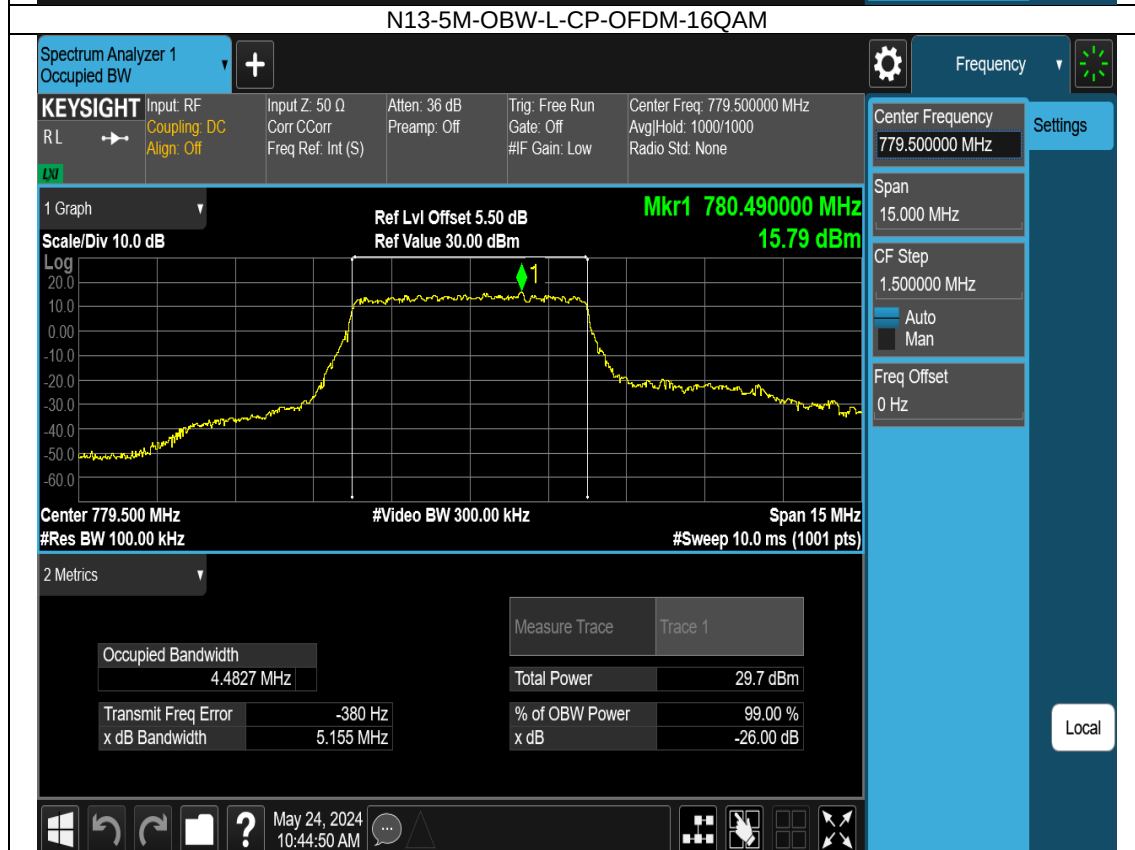
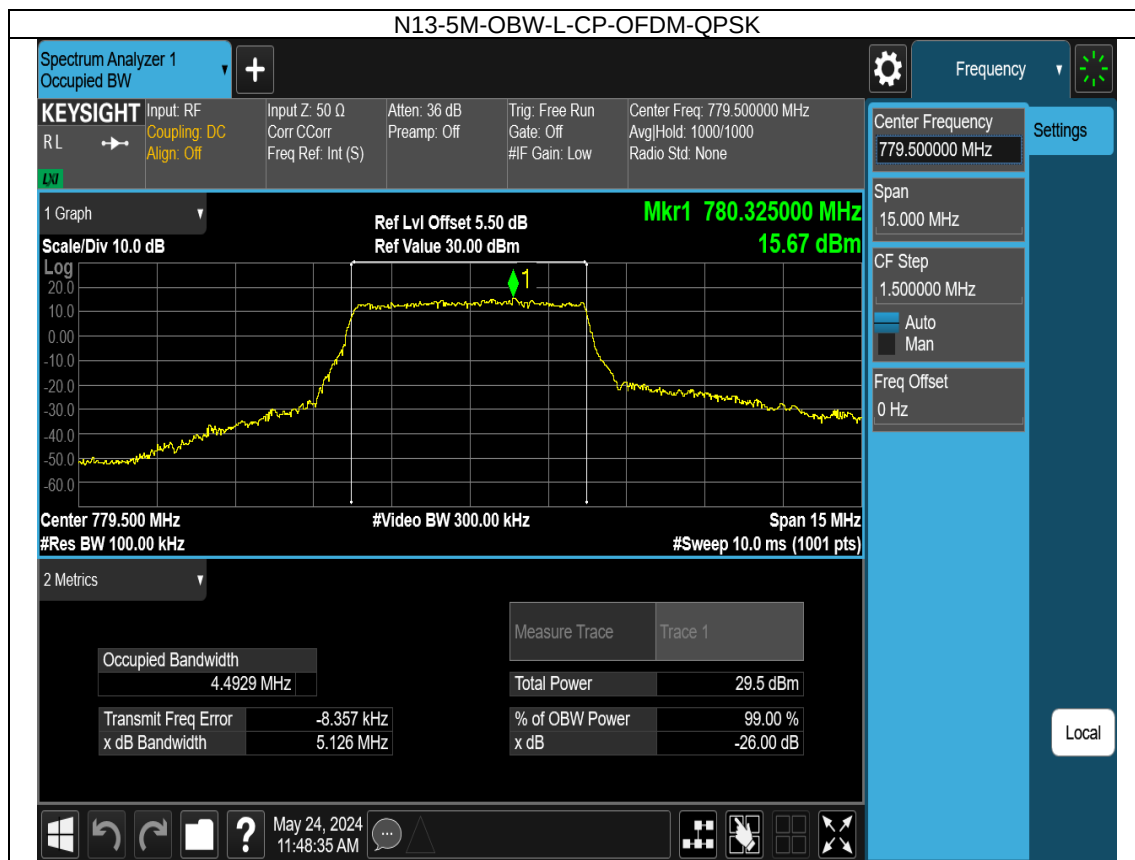


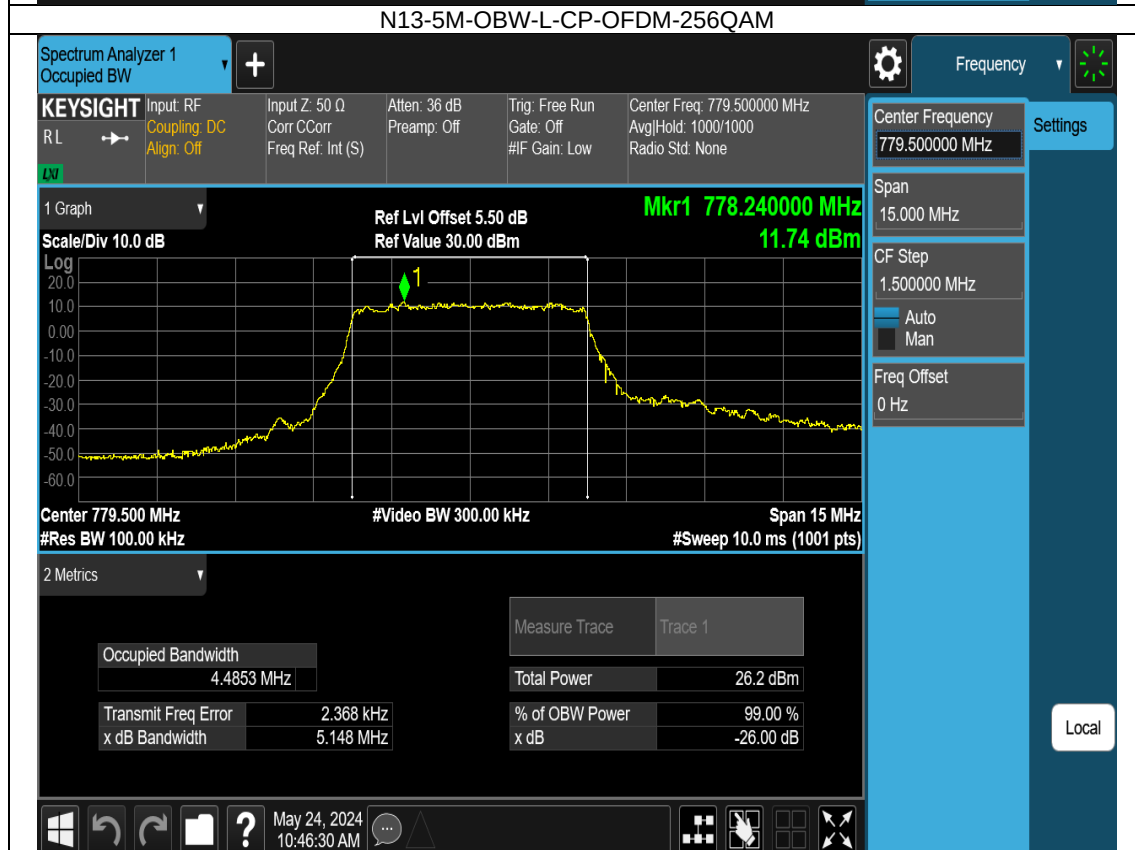
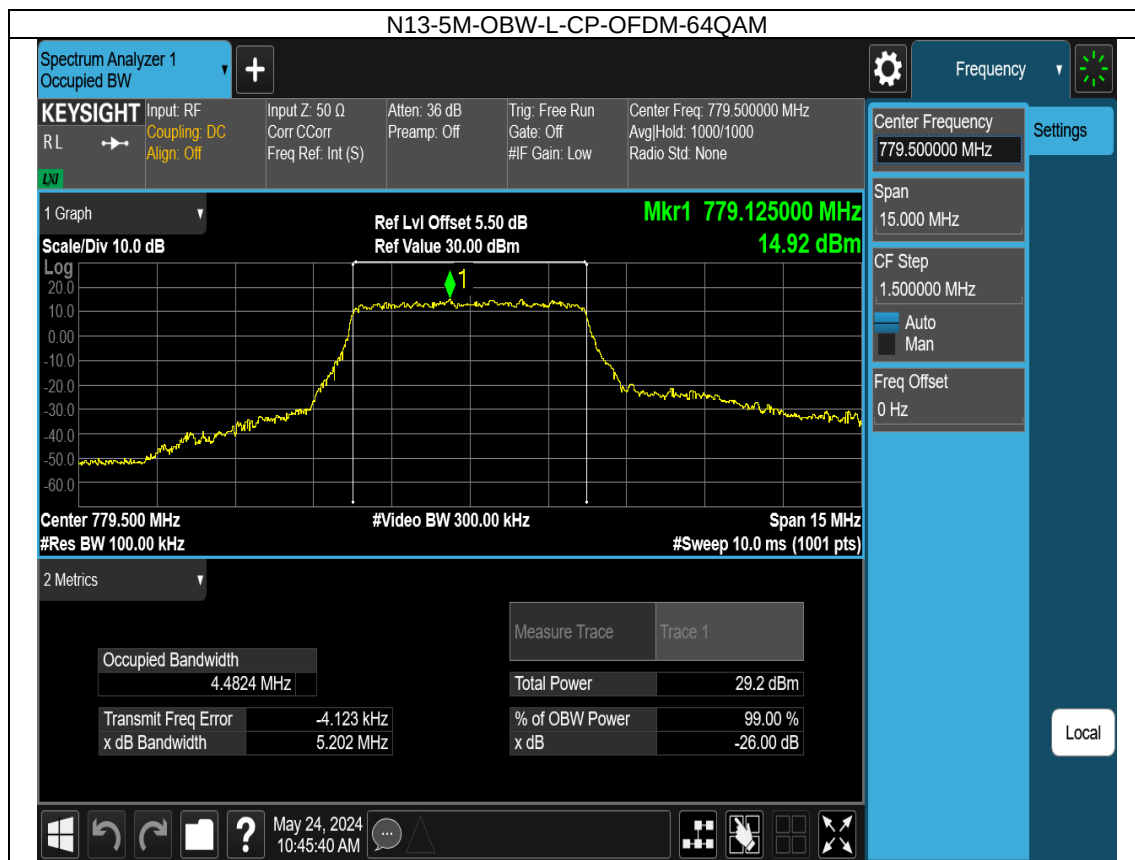
N13-5M-OBW-L-DFT-s-OFDM-64QAM

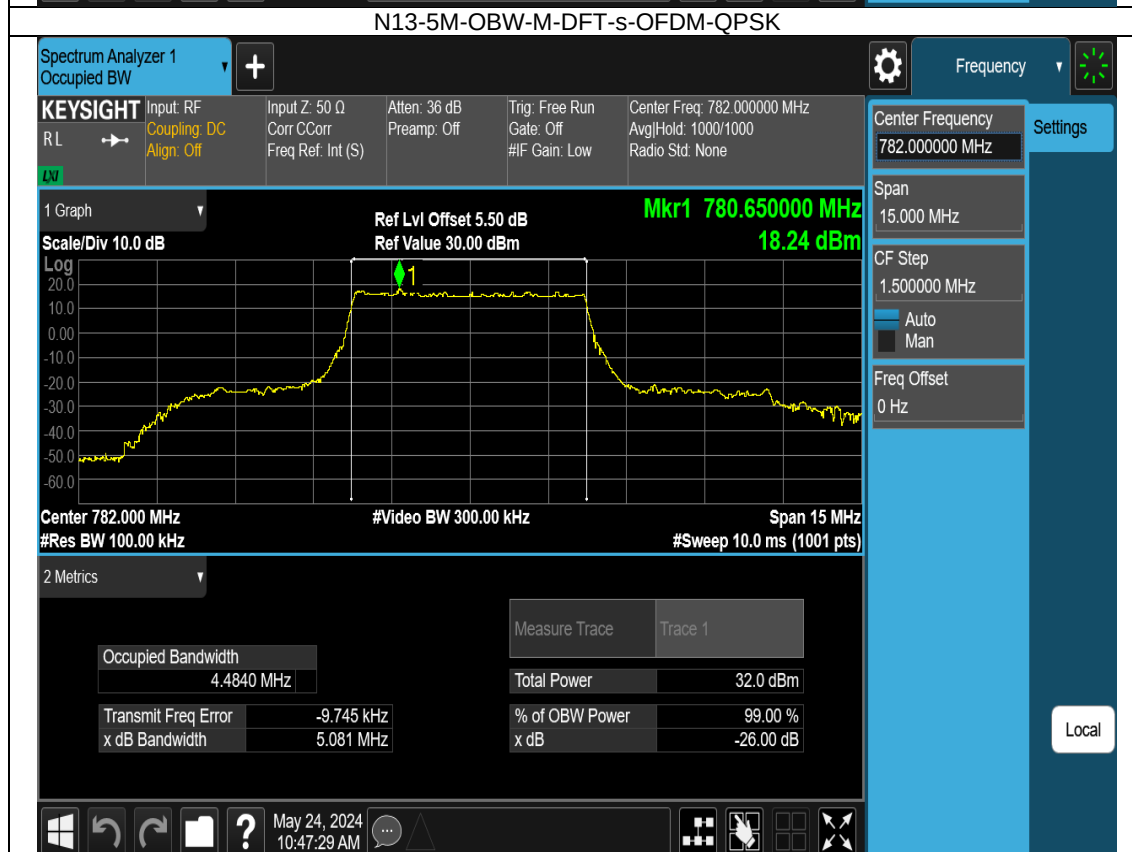
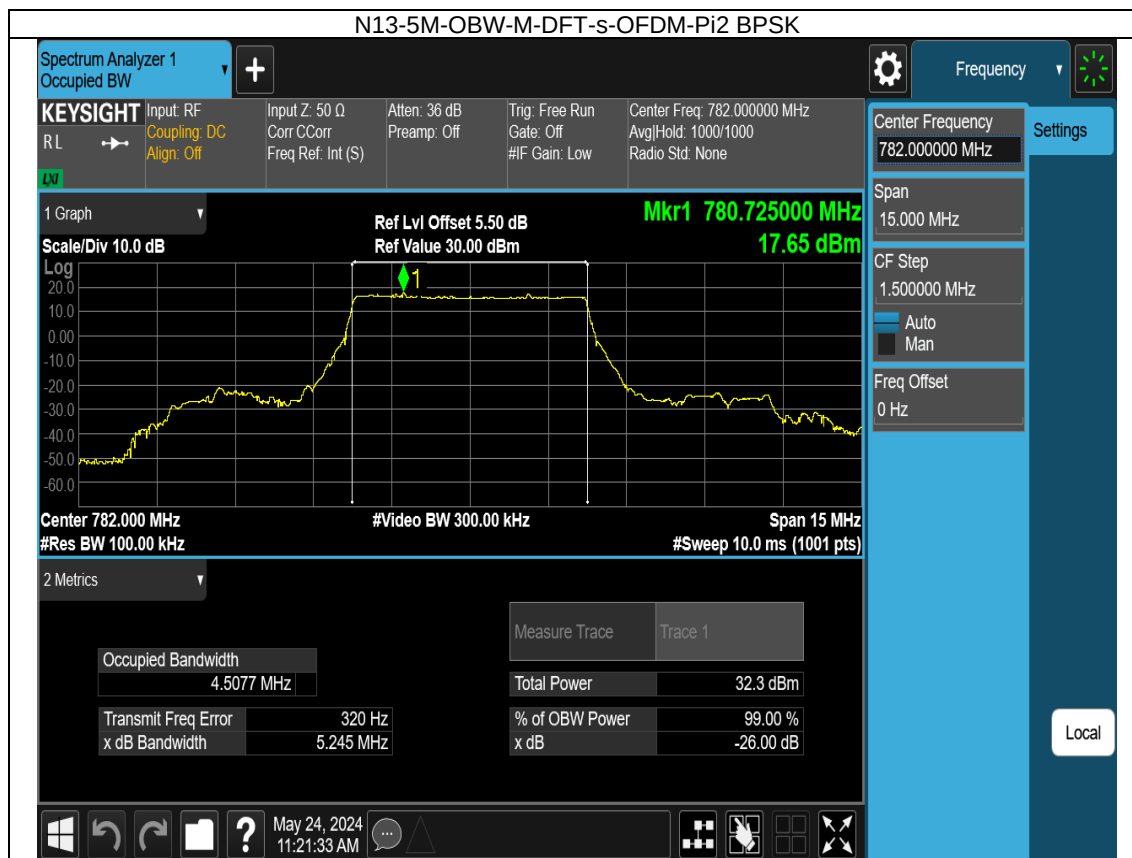


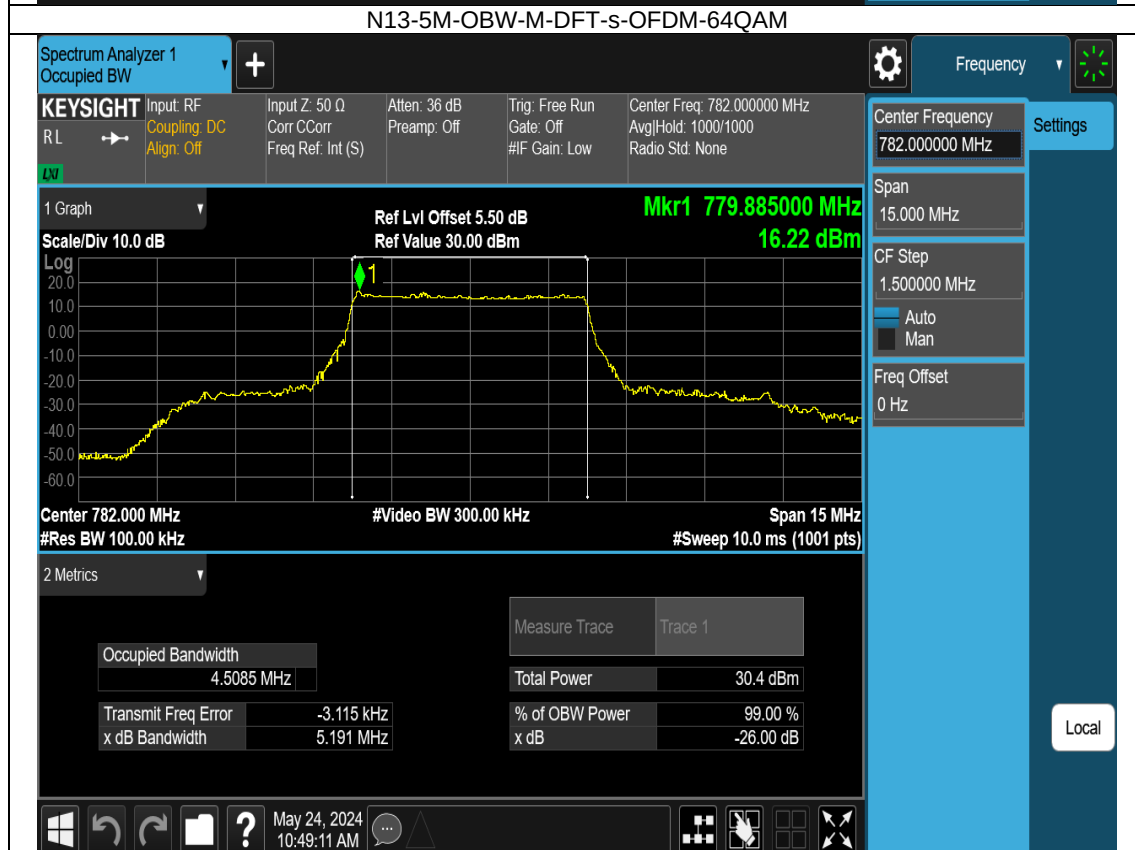
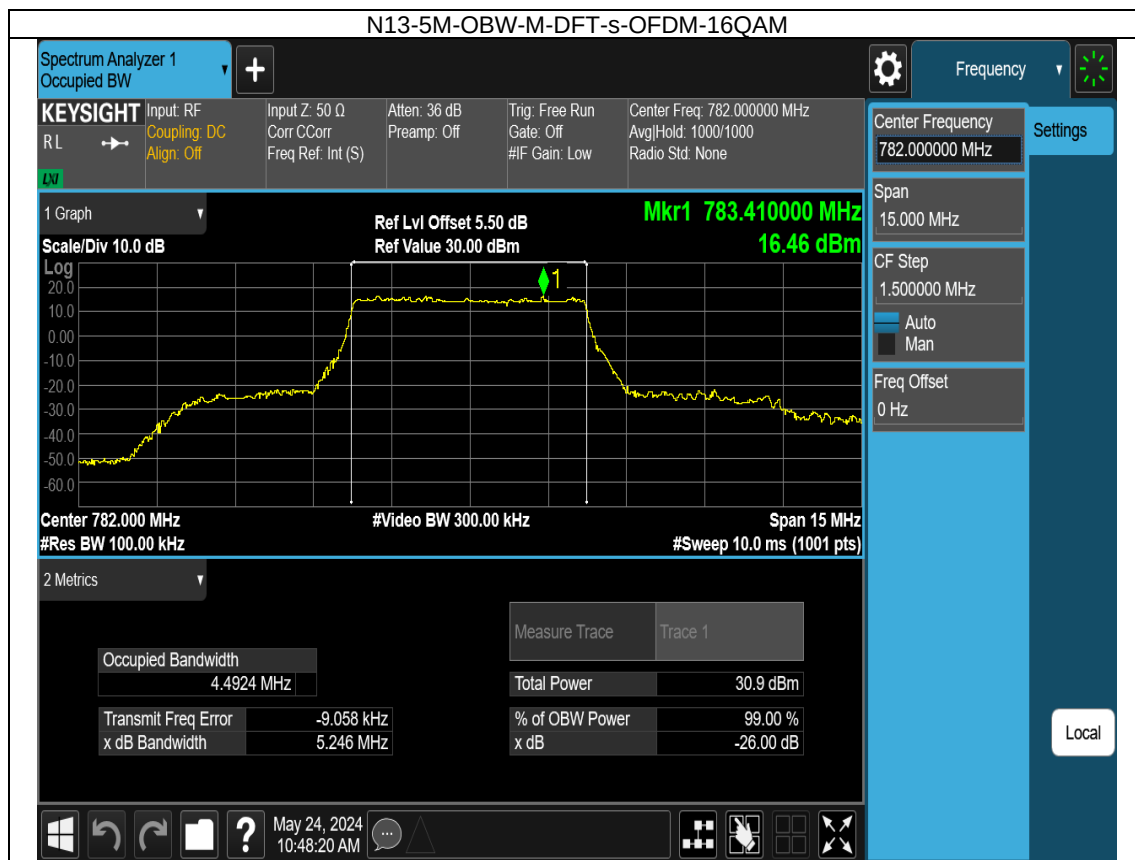
N13-5M-OBW-L-DFT-s-OFDM-256QAM

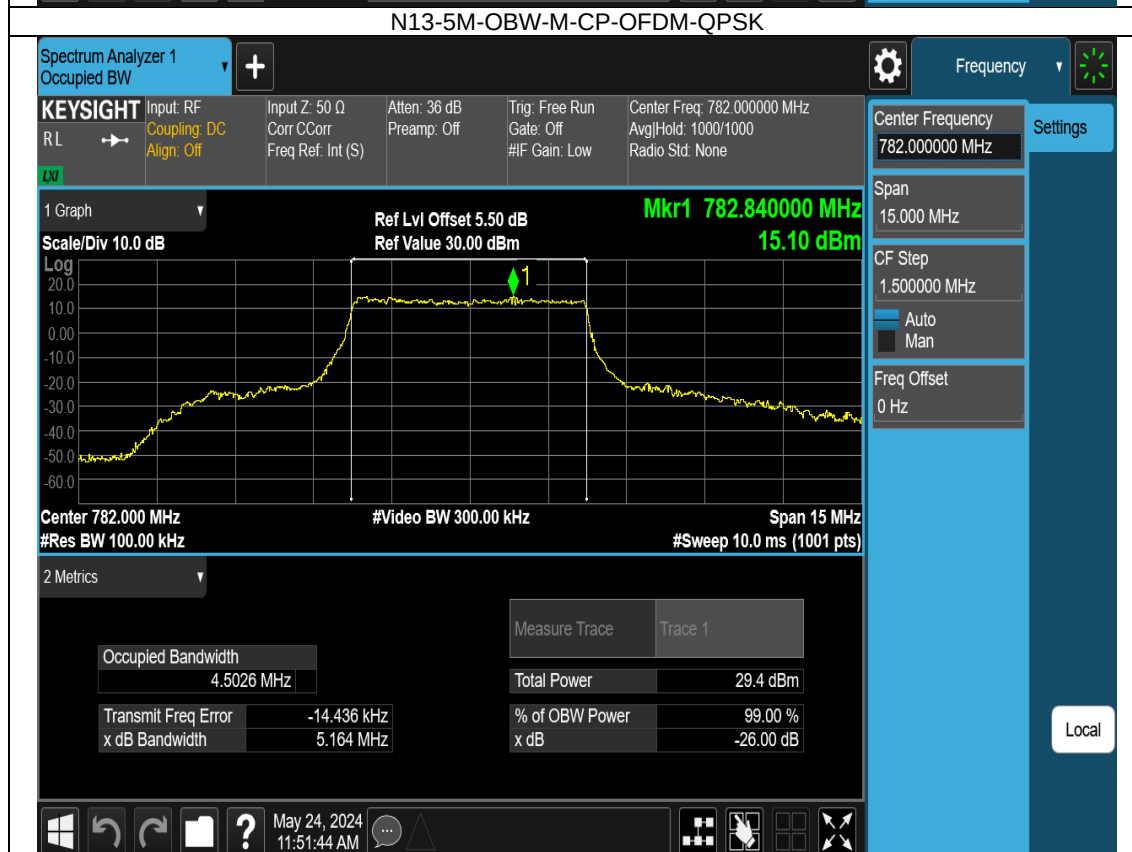
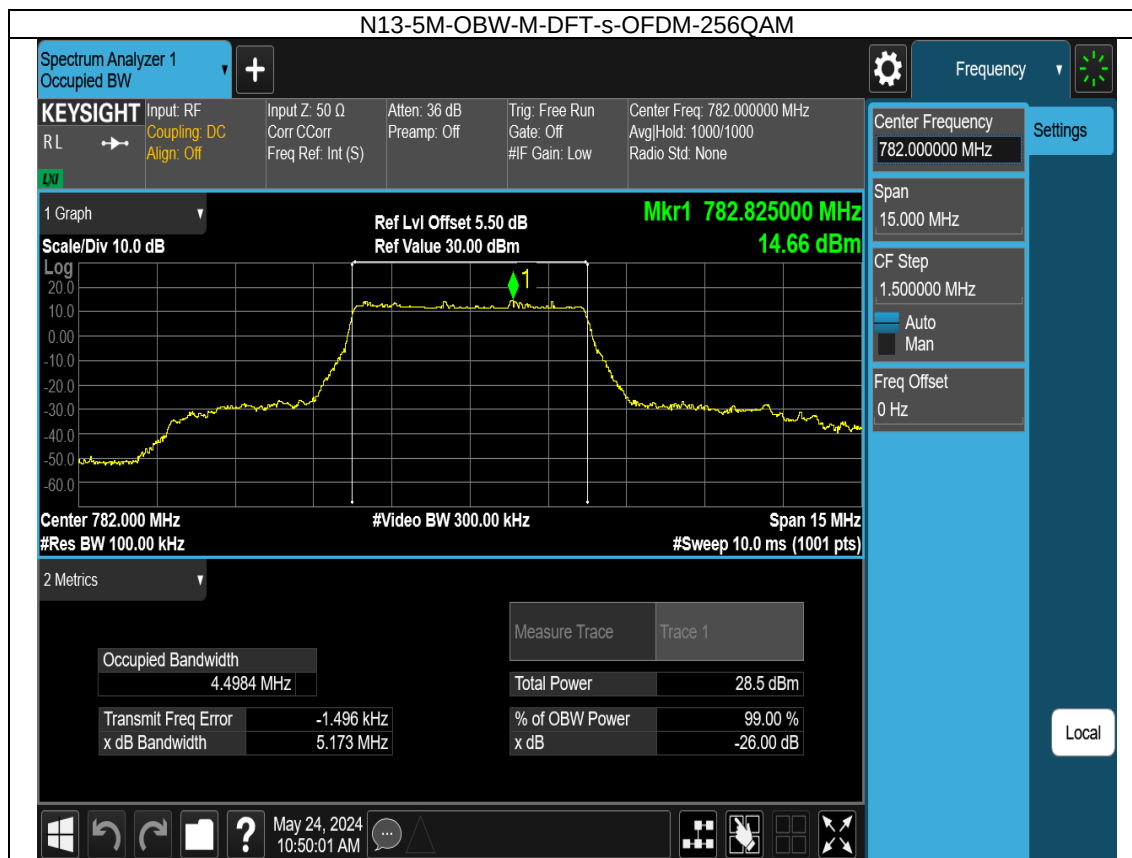


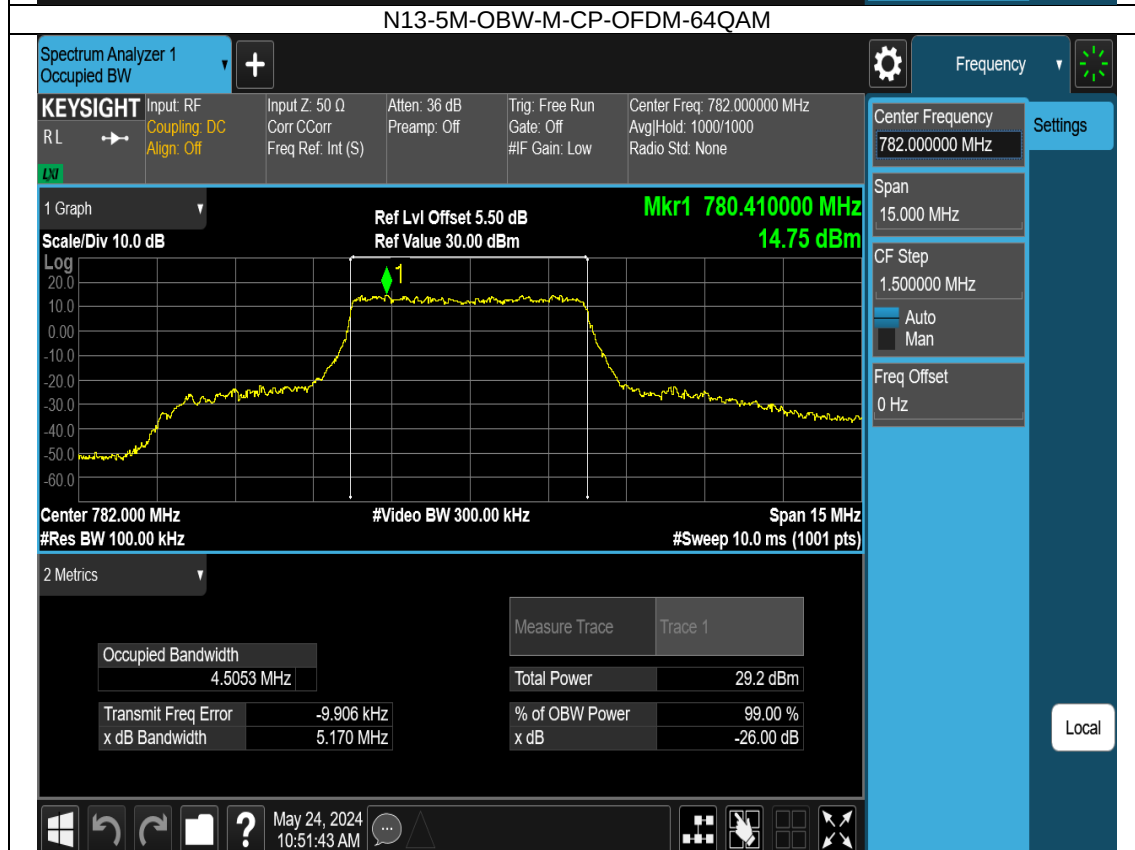
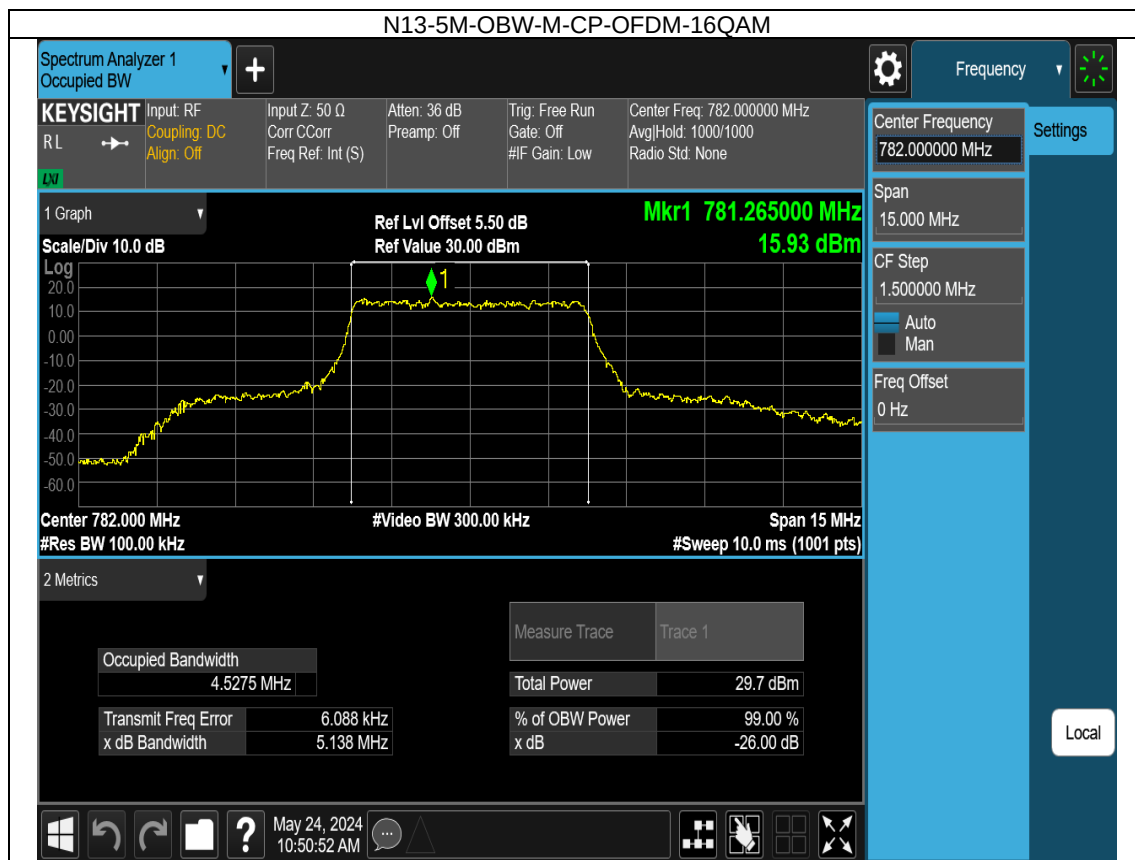


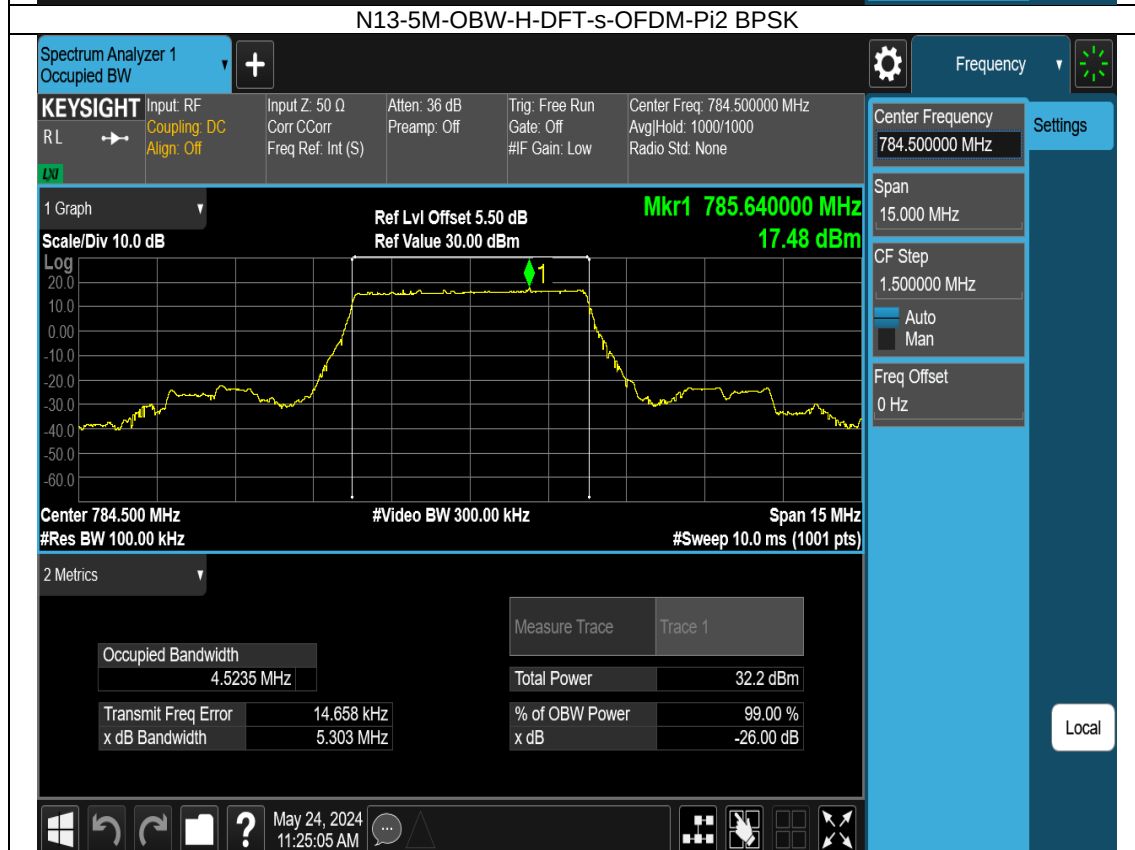
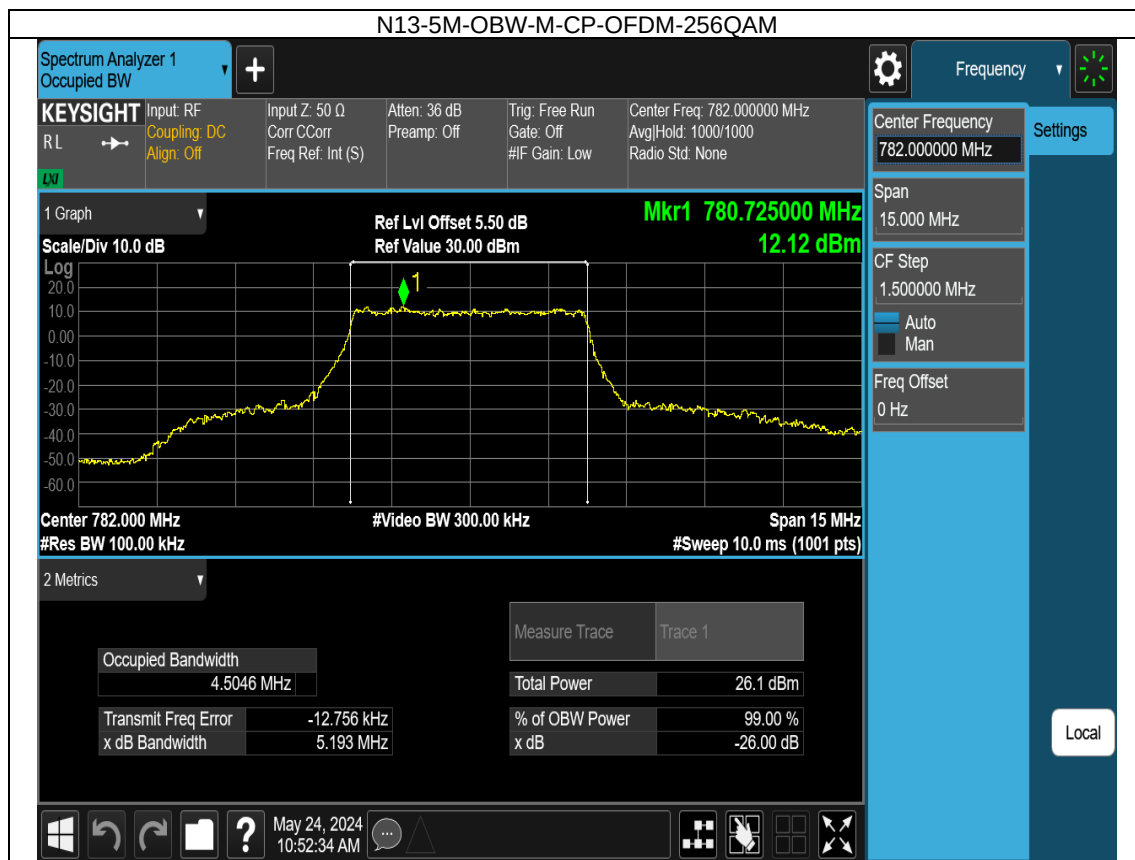


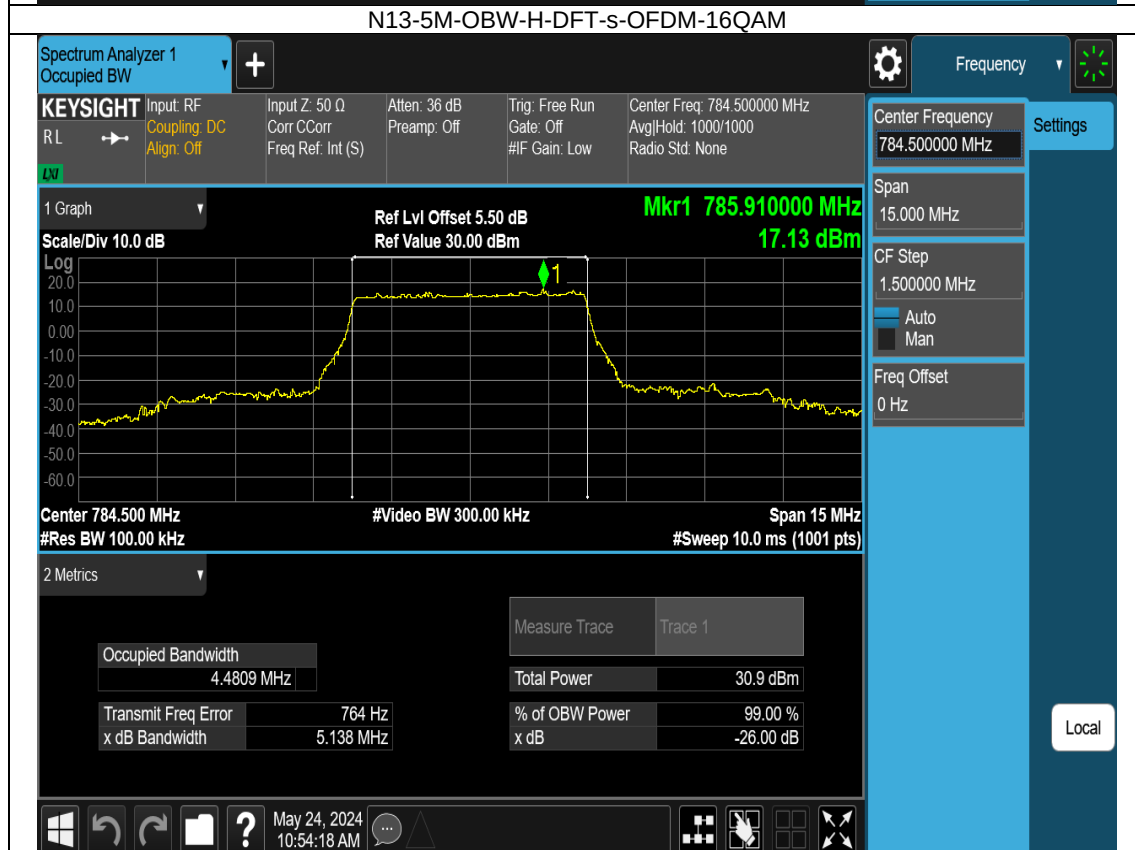
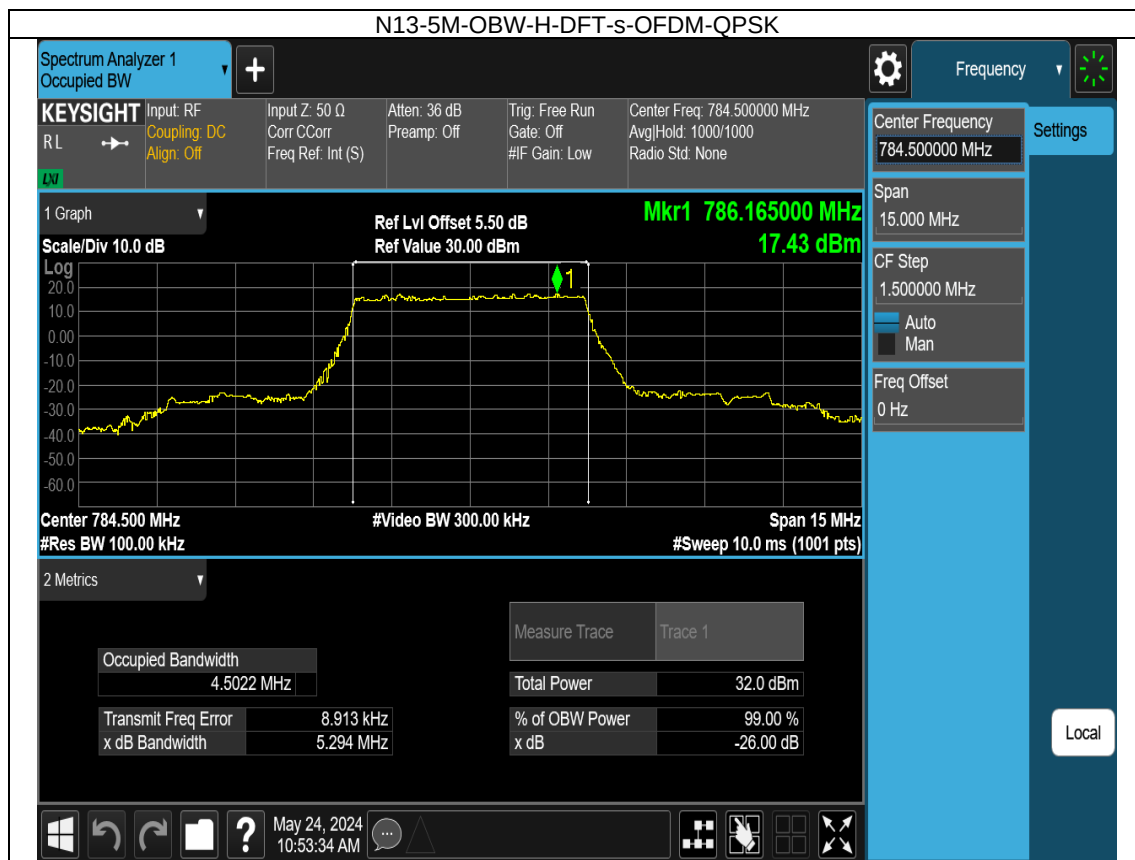




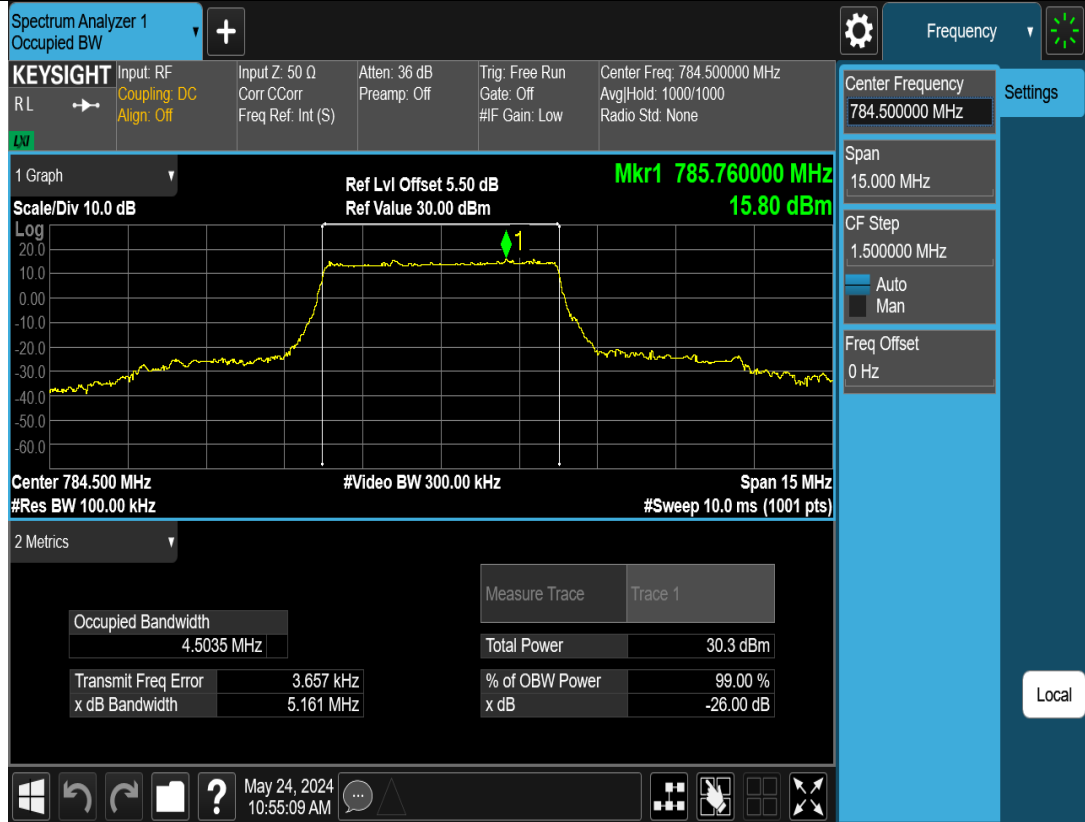




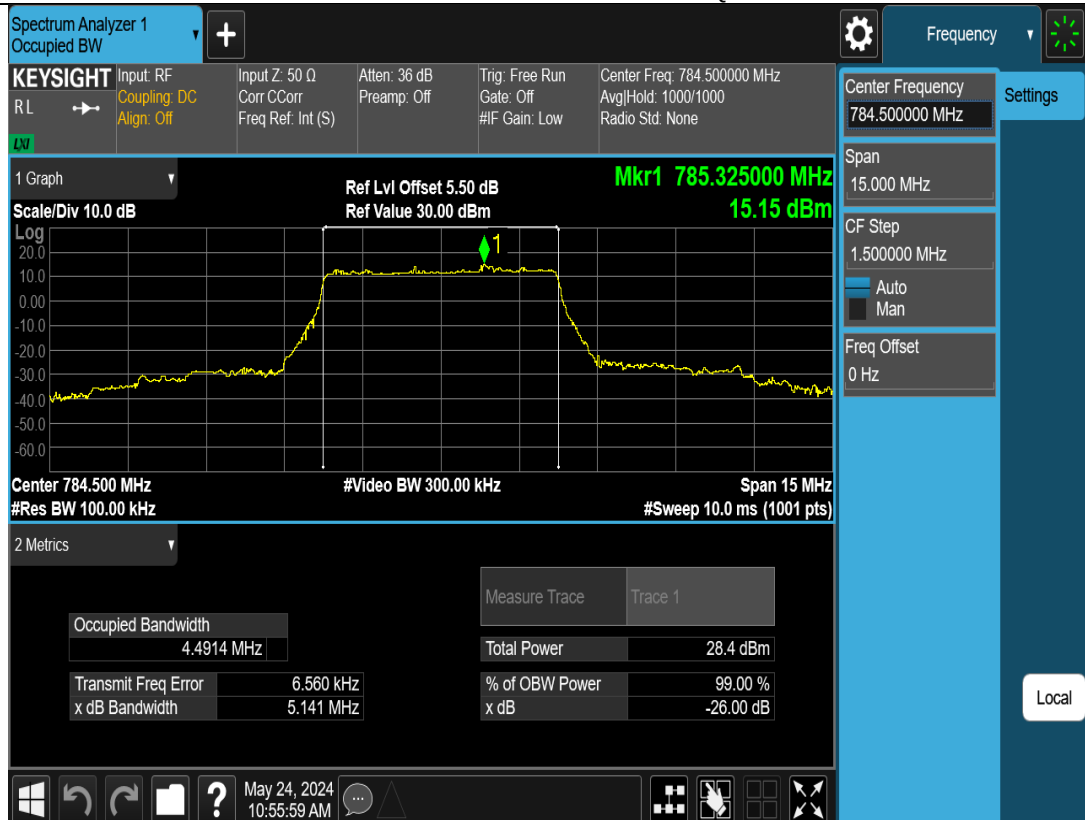


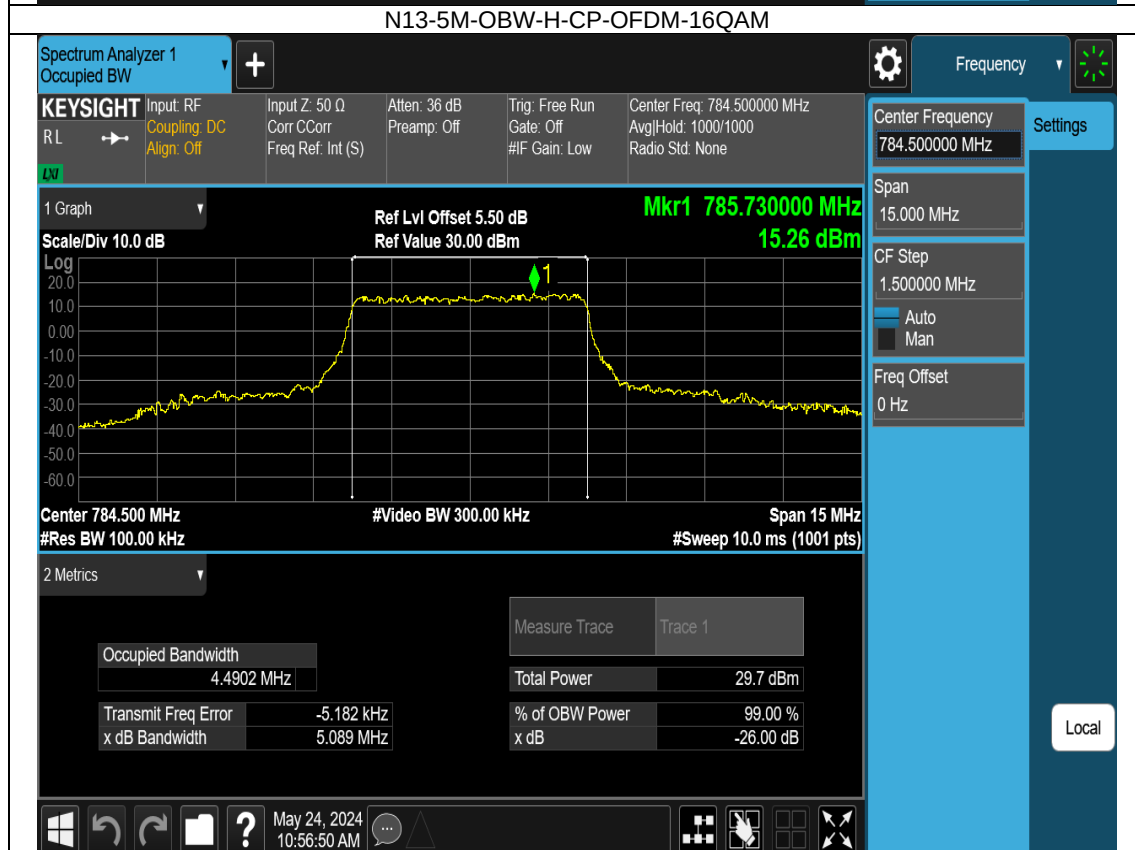
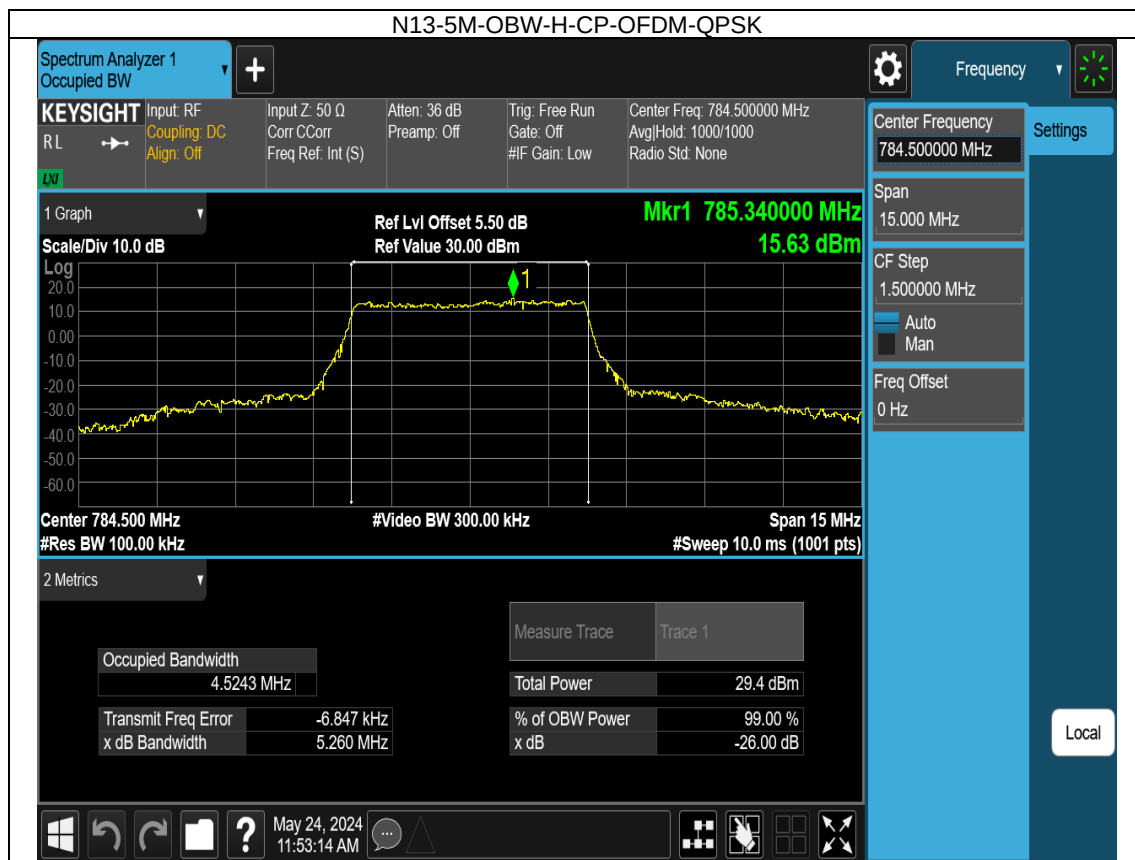


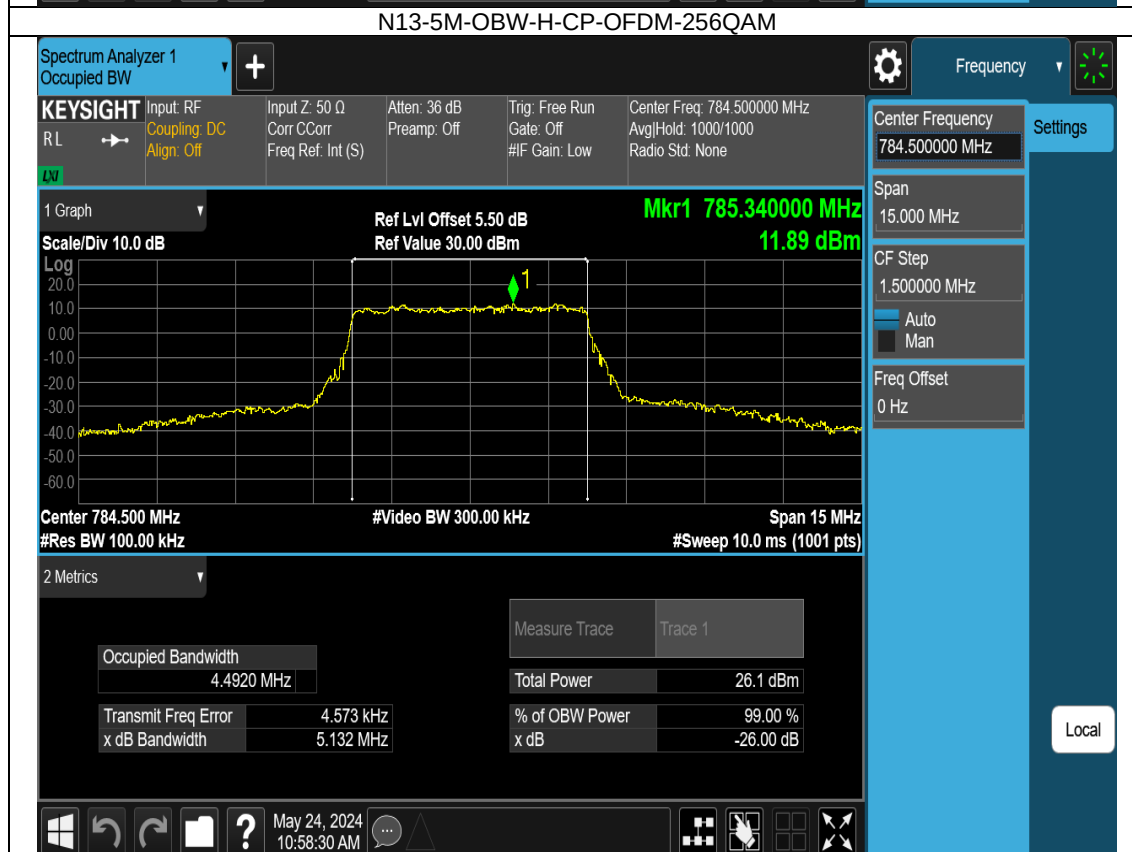
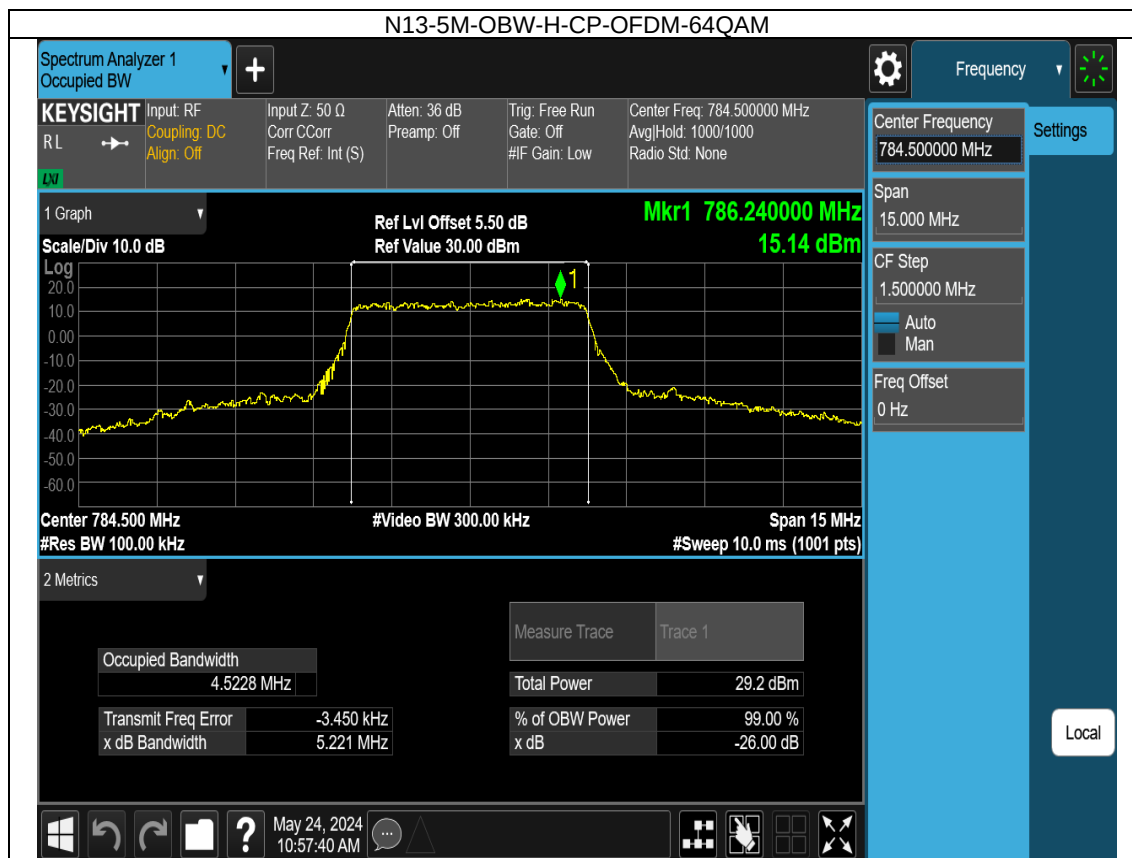
N13-5M-OBW-H-DFT-s-OFDM-64QAM

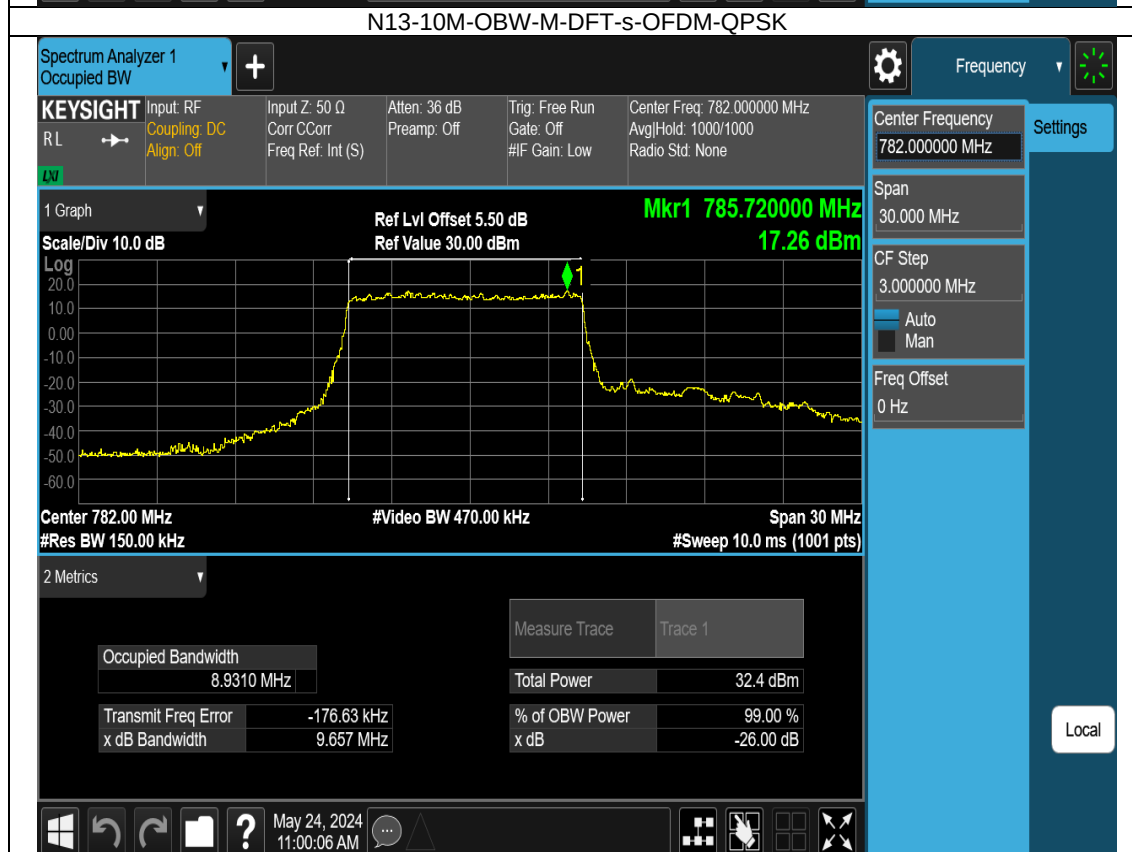
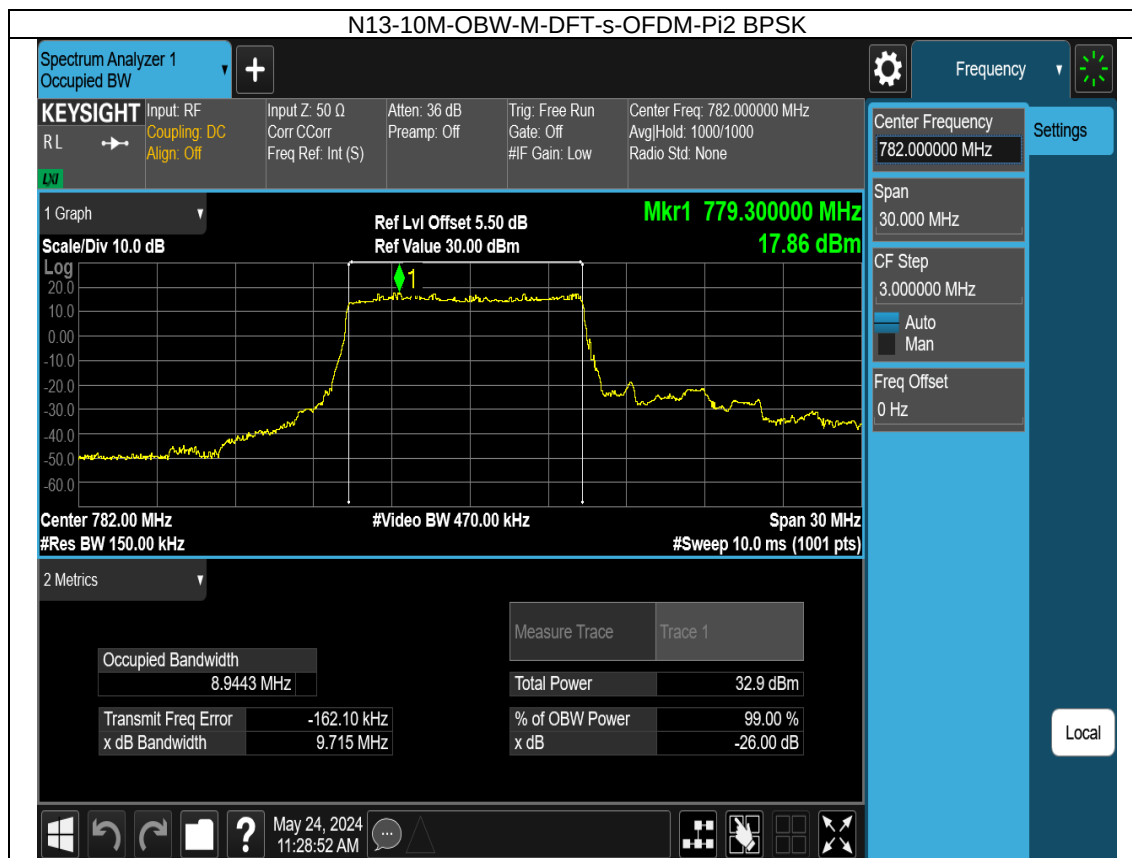


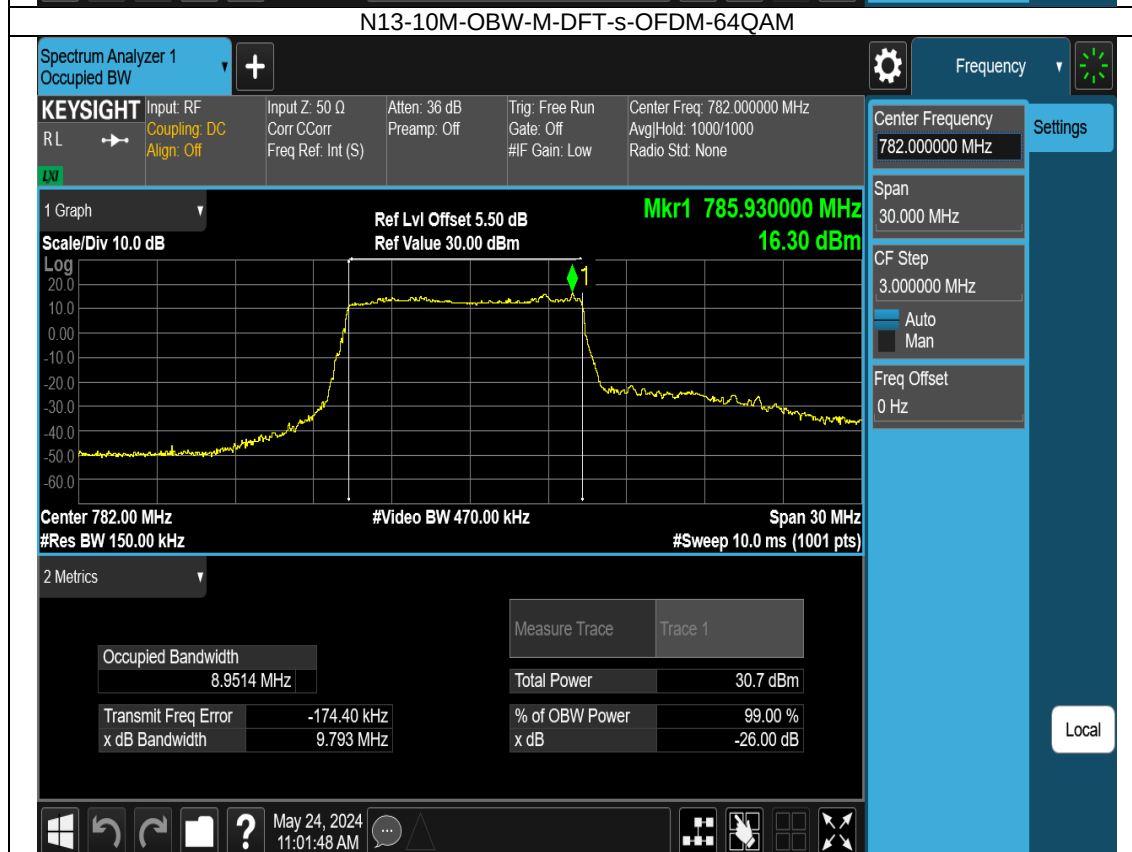
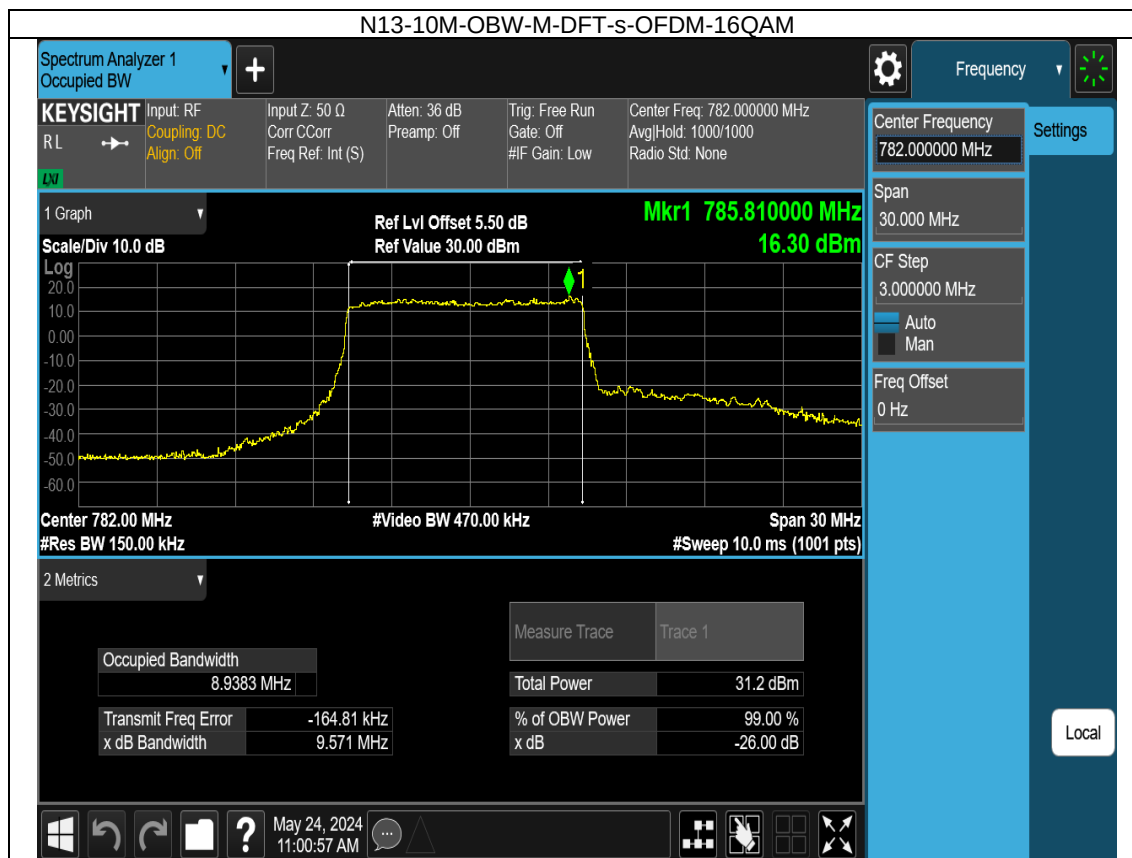
N13-5M-OBW-H-DFT-s-OFDM-256QAM

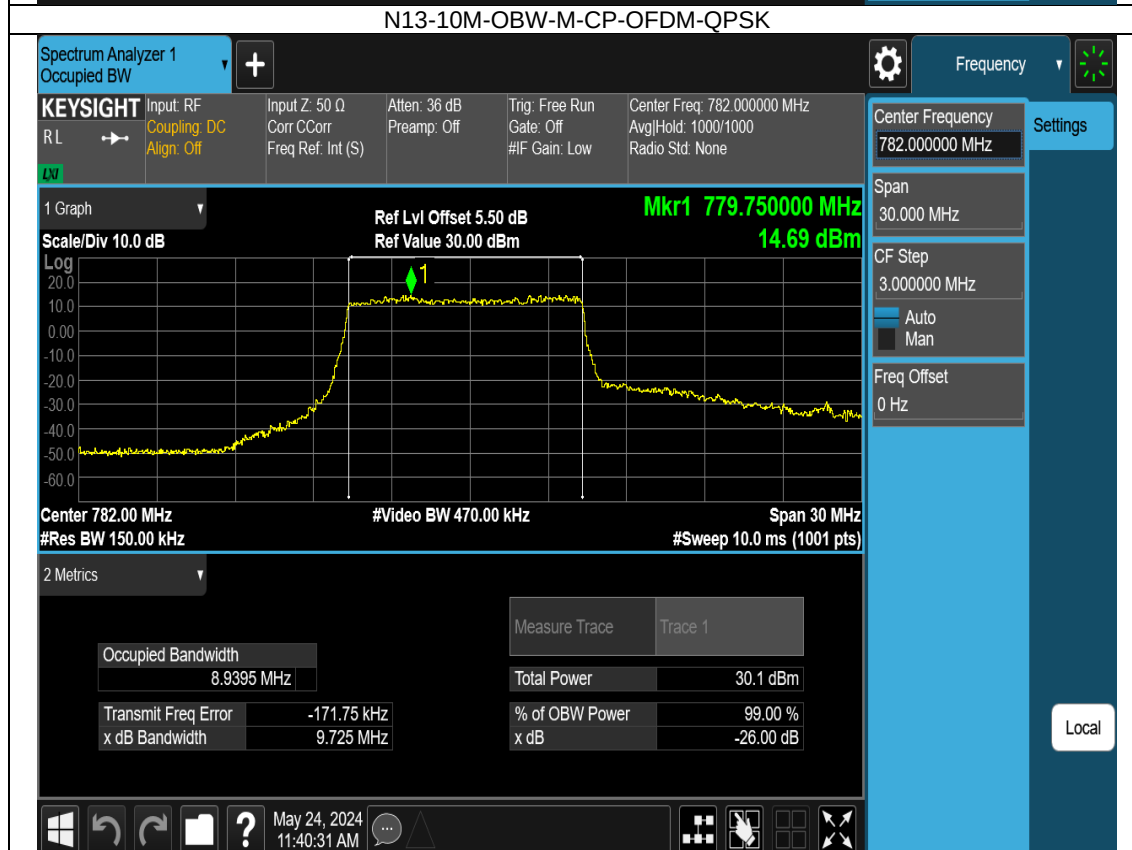
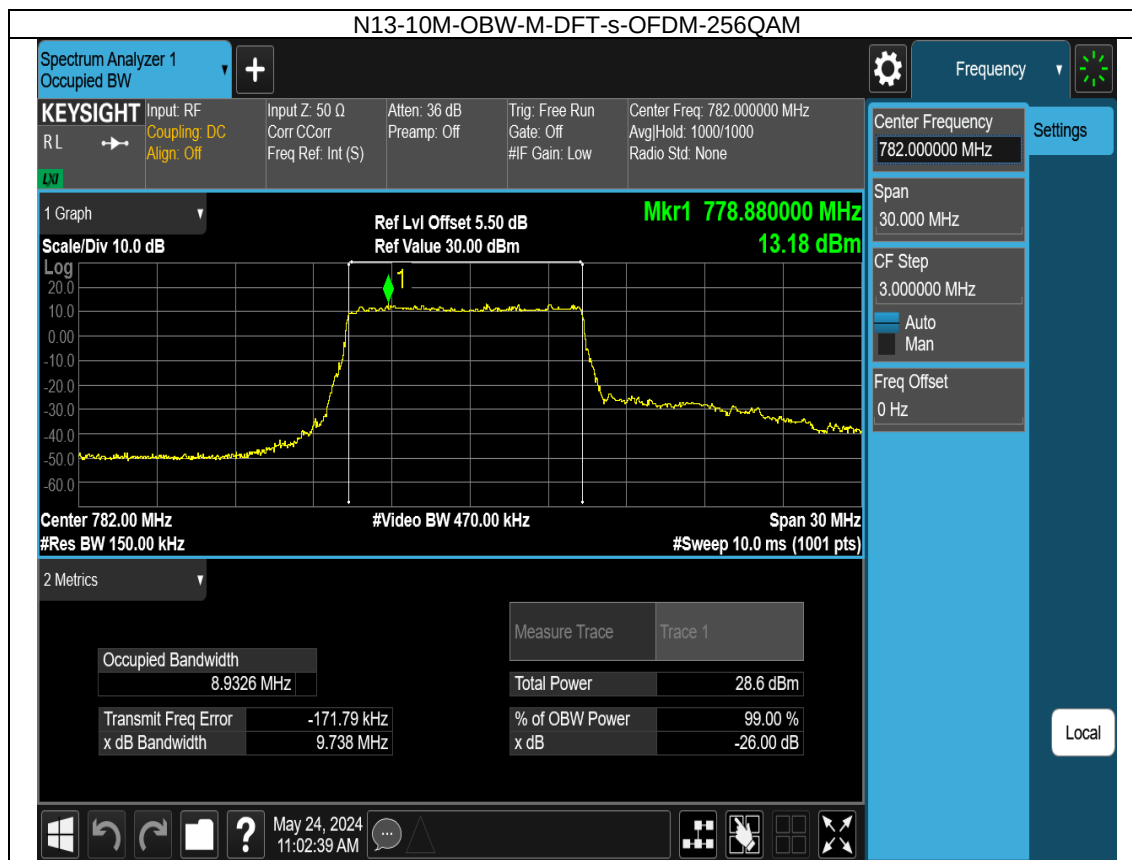


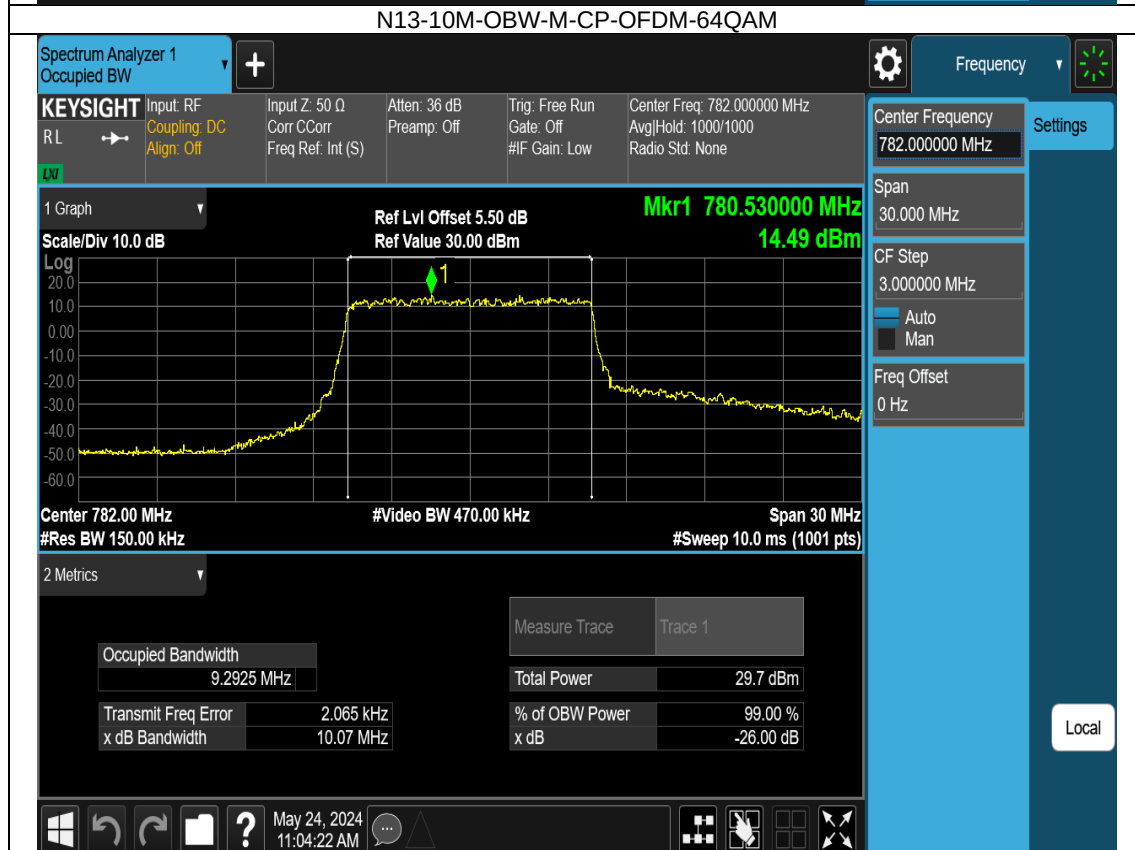
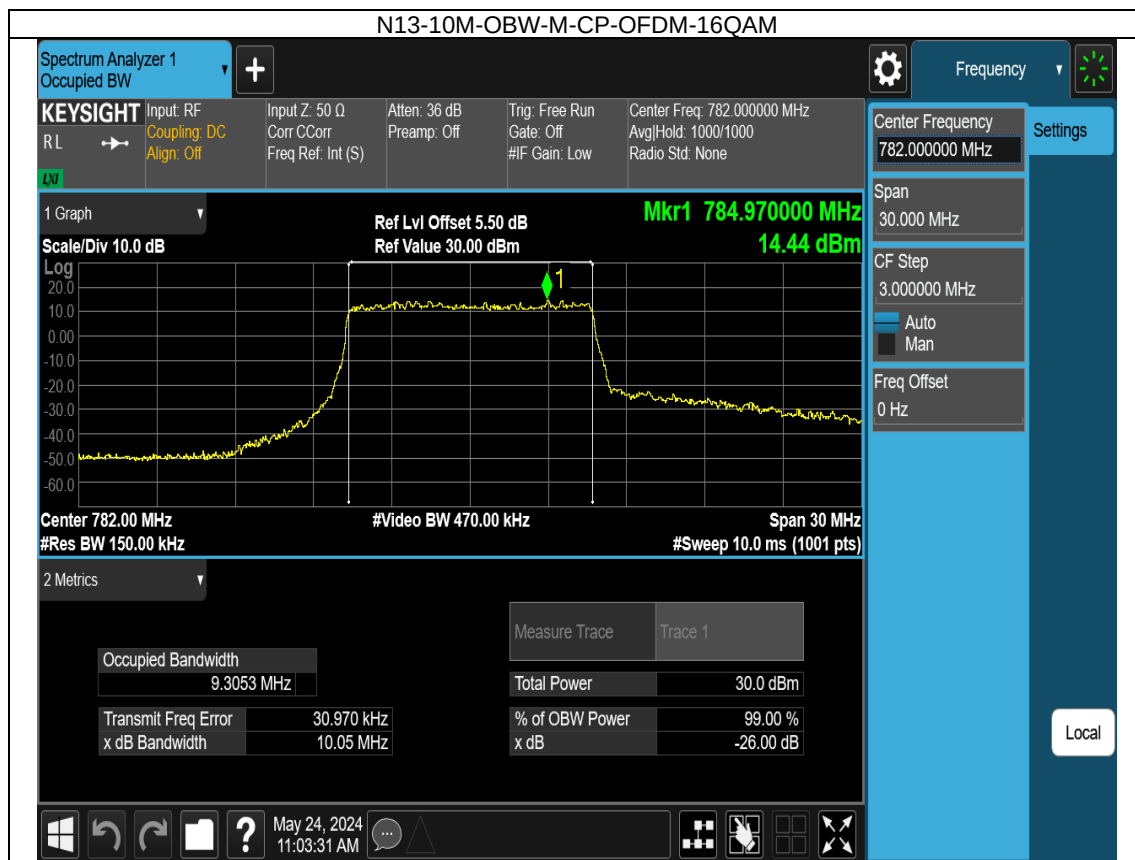




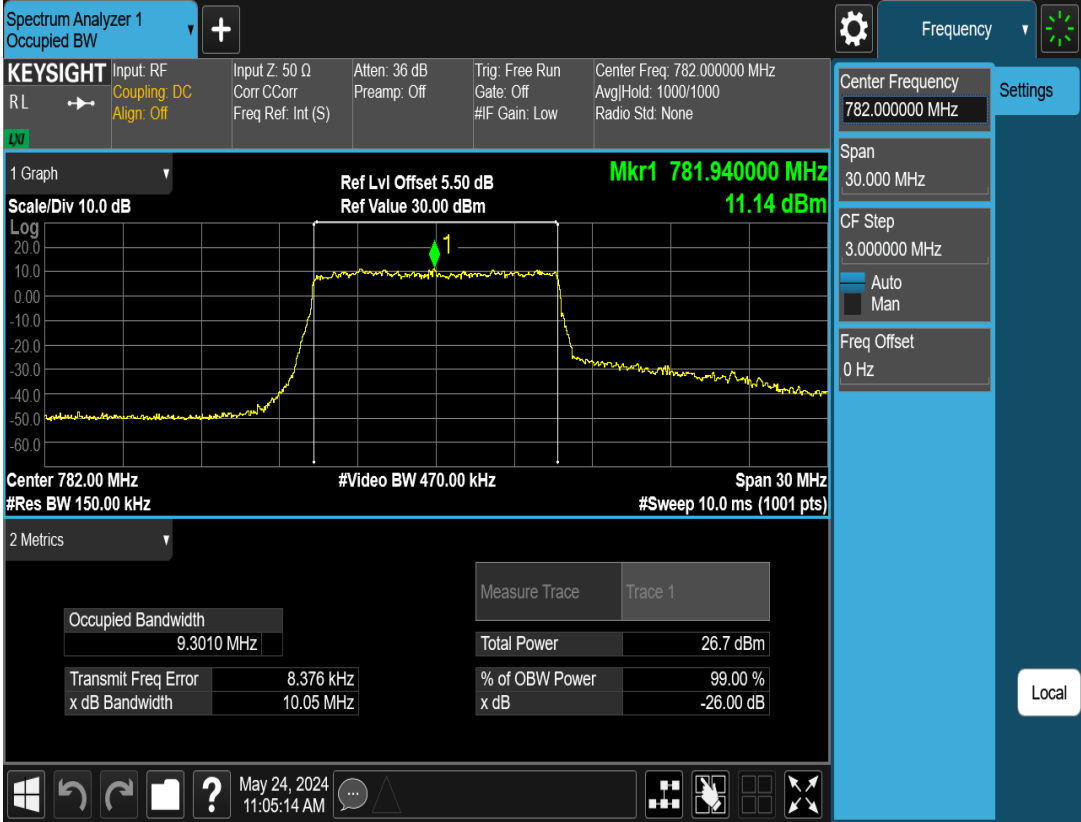








N13-10M-OBW-M-CP-OFDM-256QAM



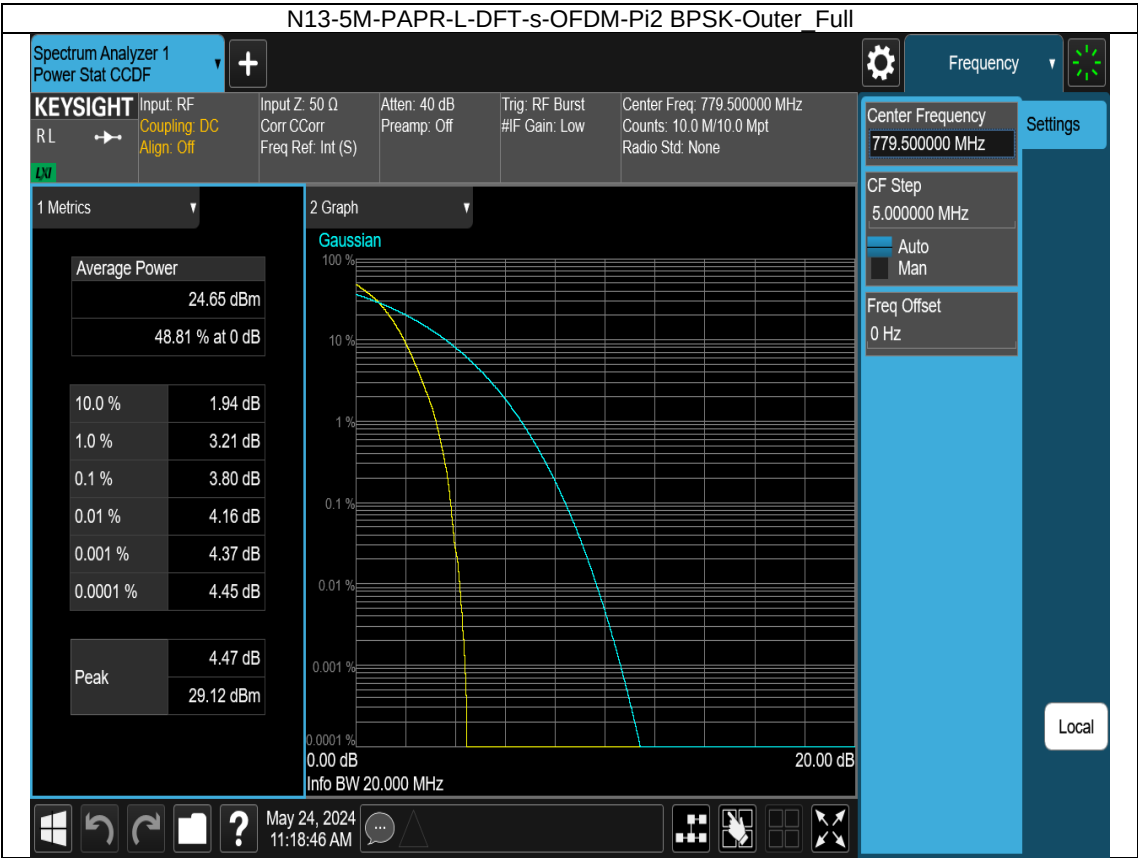
Peak-Average Ratio

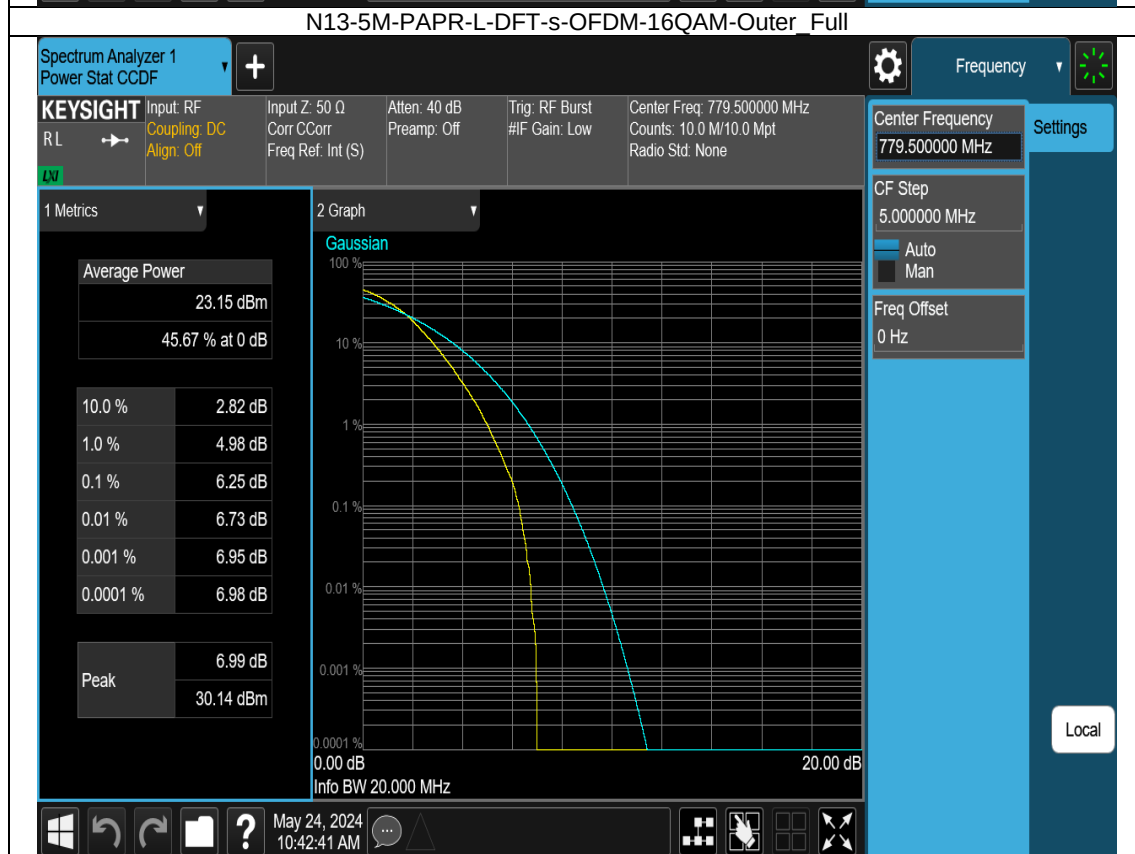
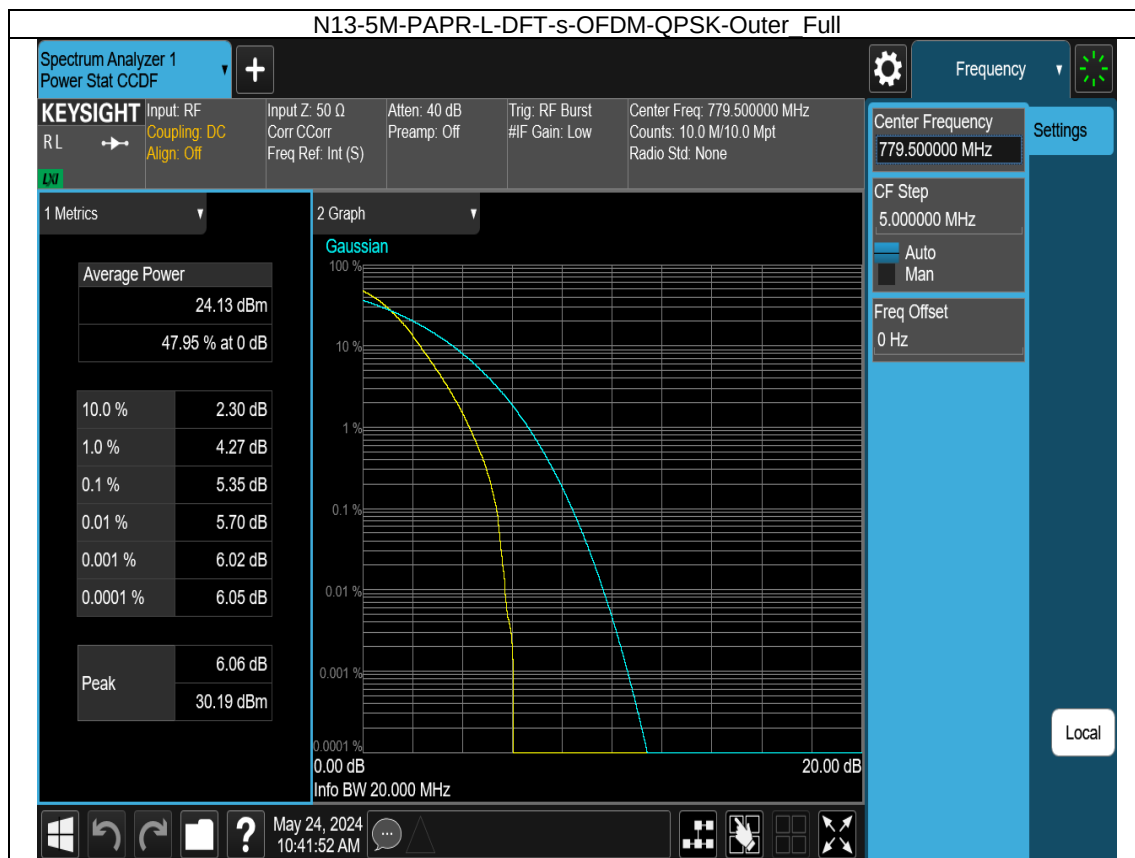
Test Result

5G NR n13 SCS=15kHz 5MHz					
Modulation	CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK	Low CH	Outer_Full	3.80	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	5.35	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	6.25	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	6.34	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	6.32	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.41	<=13	Pass
CP-OFDM 16QAM		Outer_Full	7.47	<=13	Pass
CP-OFDM 64QAM		Outer_Full	7.28	<=13	Pass
CP-OFDM 256QAM		Outer_Full	8.20	<=13	Pass
DFT-s-OFDM PI/2 BPSK		Outer_Full	4.18	<=13	Pass
DFT-s-OFDM QPSK	Middle CH	Outer_Full	5.61	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	6.45	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	6.57	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	6.47	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.60	<=13	Pass
CP-OFDM 16QAM		Outer_Full	6.90	<=13	Pass
CP-OFDM 64QAM		Outer_Full	7.38	<=13	Pass
CP-OFDM 256QAM		Outer_Full	8.34	<=13	Pass
DFT-s-OFDM PI/2 BPSK		Outer_Full	4.47	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	5.29	<=13	Pass
DFT-s-OFDM 16QAM	High CH	Outer_Full	6.30	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	6.55	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	6.57	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.18	<=13	Pass
CP-OFDM 16QAM		Outer_Full	7.33	<=13	Pass
CP-OFDM 64QAM		Outer_Full	7.74	<=13	Pass
CP-OFDM 256QAM		Outer_Full	7.97	<=13	Pass

5G NR n13 SCS=15kHz 10MHz					
Modulation	CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK	Middle CH	Outer_Full	4.38	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	5.74	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	6.44	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	6.70	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	6.68	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.68	<=13	Pass
CP-OFDM 16QAM		Outer_Full	7.26	<=13	Pass
CP-OFDM 64QAM		Outer_Full	7.68	<=13	Pass
CP-OFDM 256QAM		Outer_Full	8.77	<=13	Pass

Test Graph



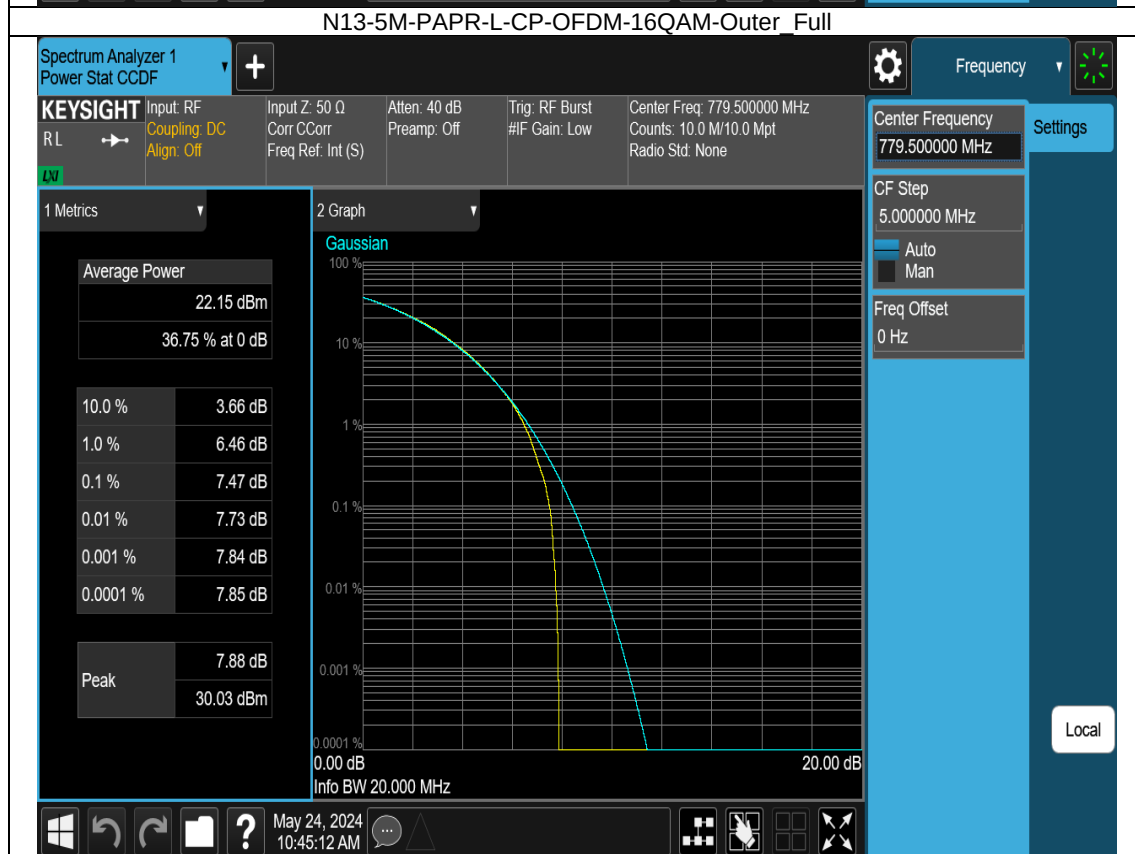
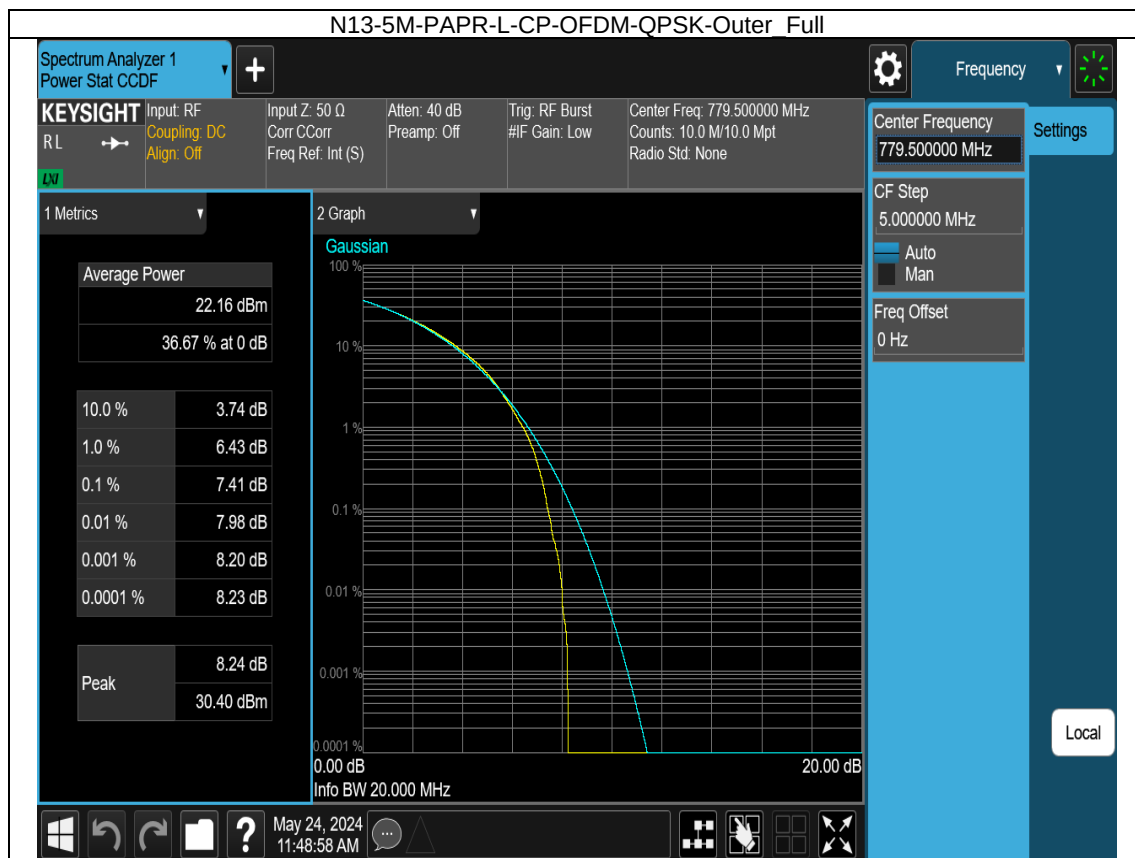


N13-5M-PAPR-L-DFT-s-OFDM-64QAM-Outer Full

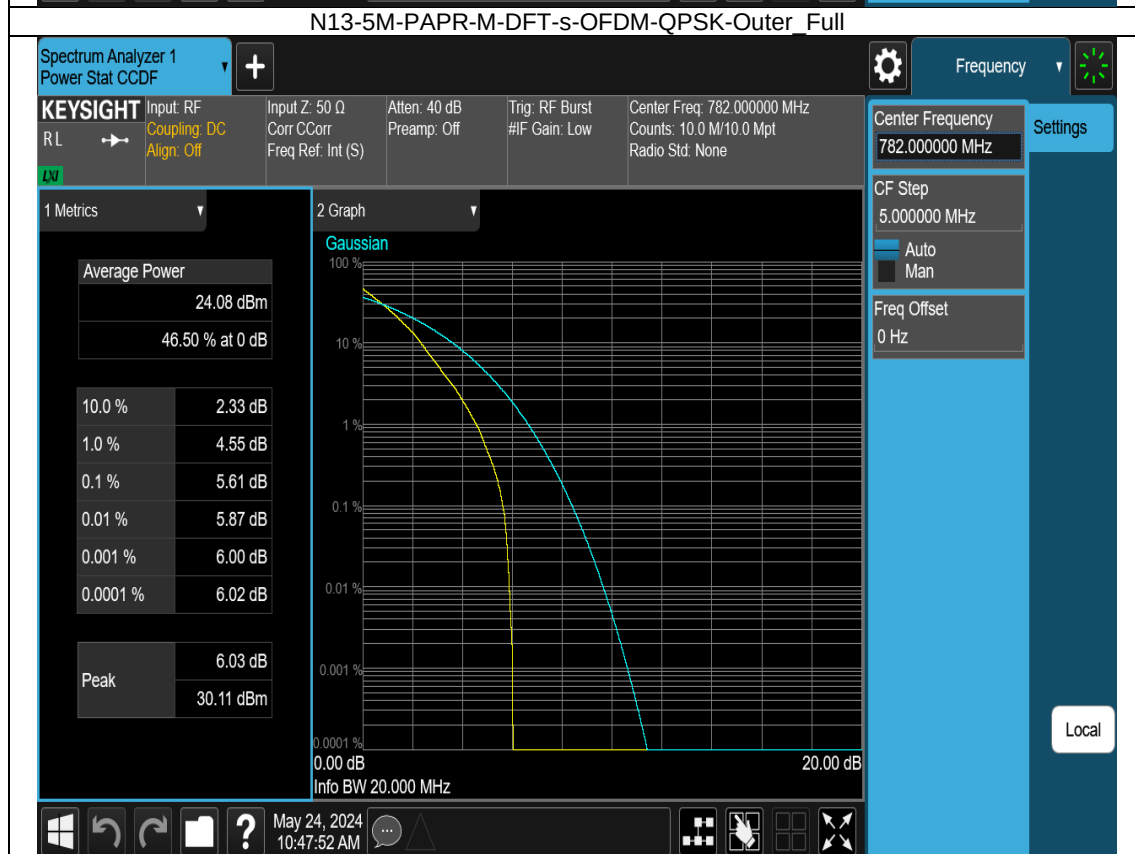
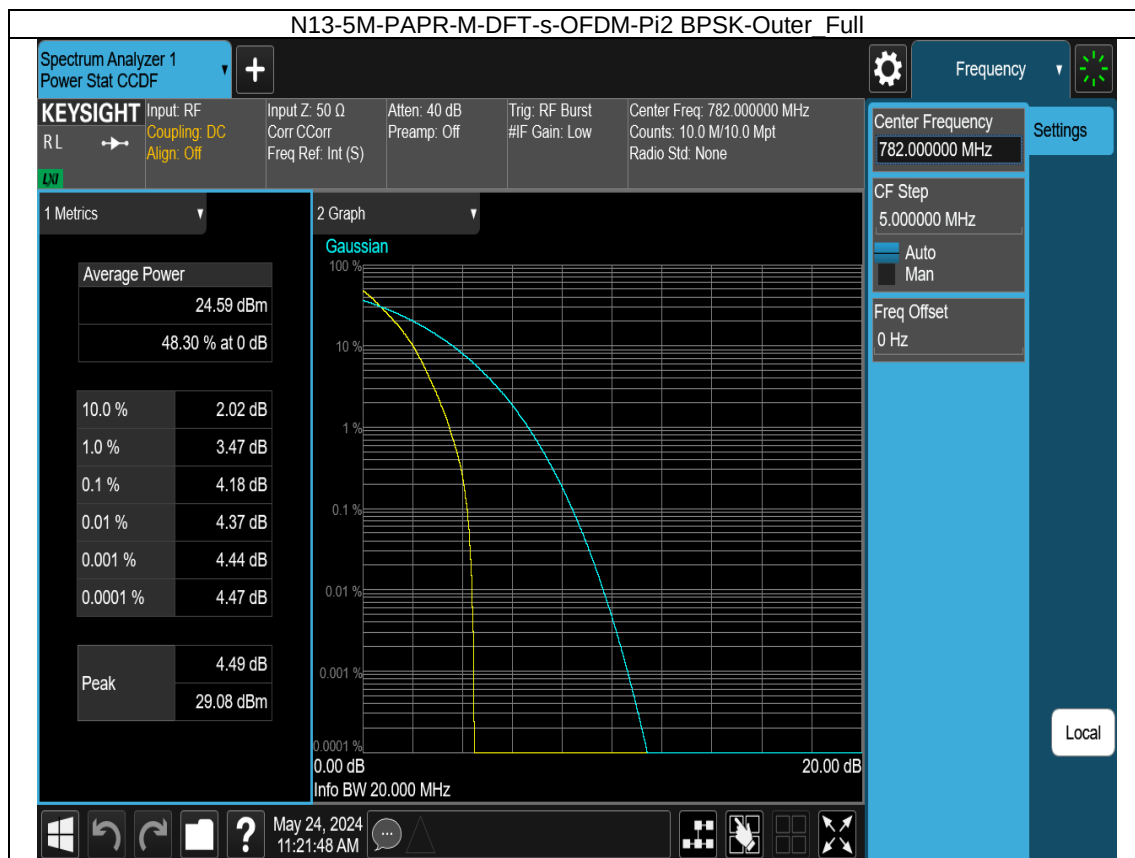


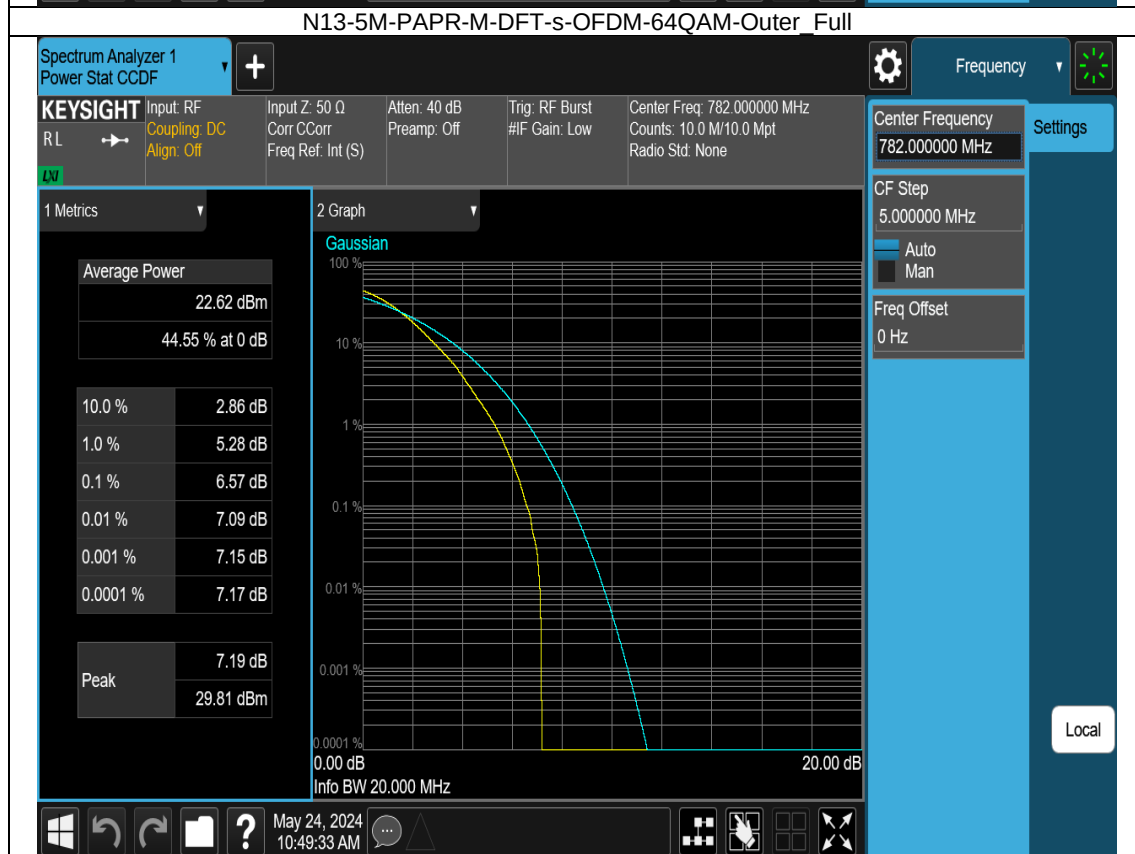
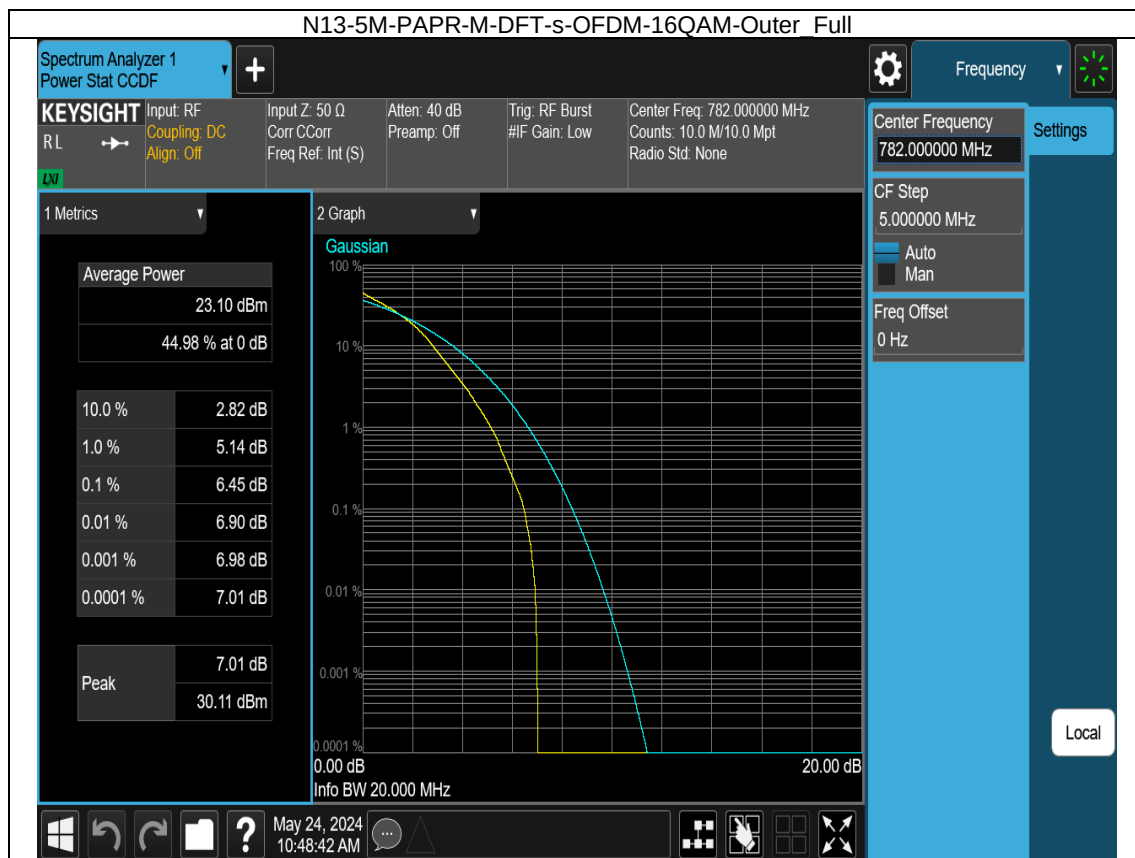
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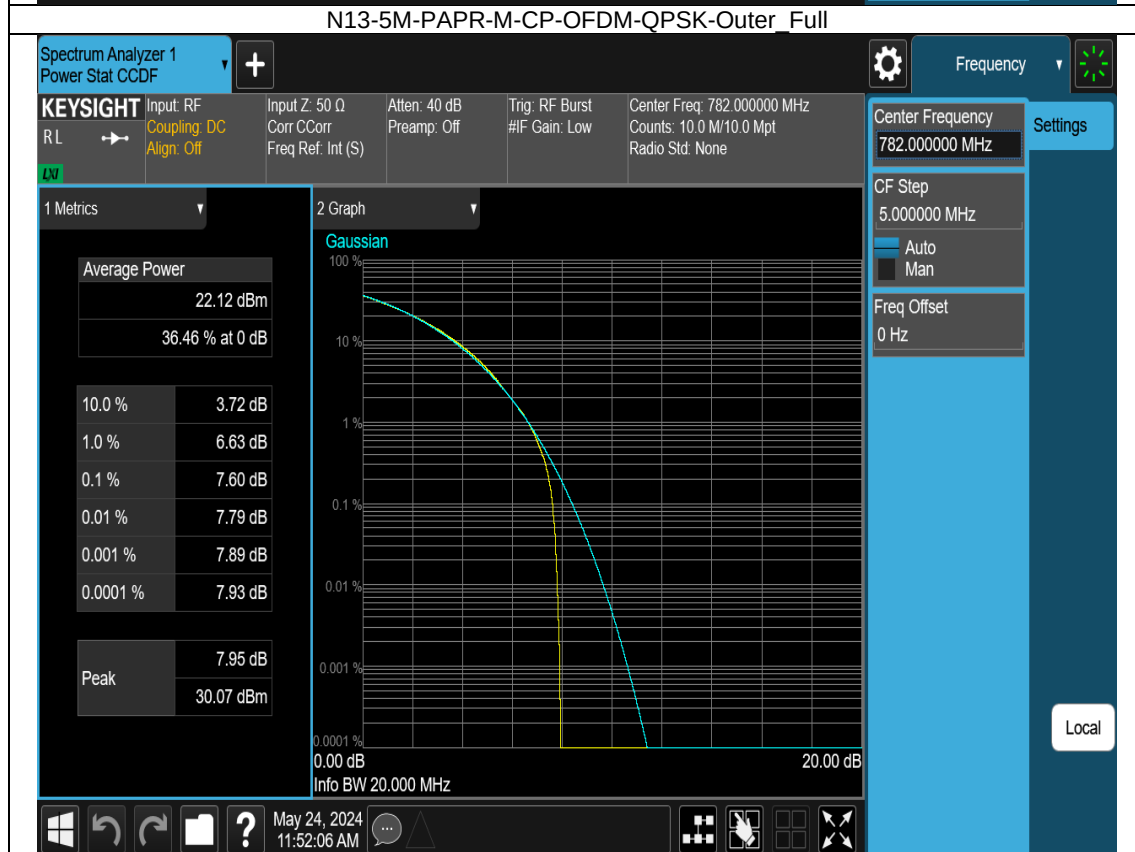


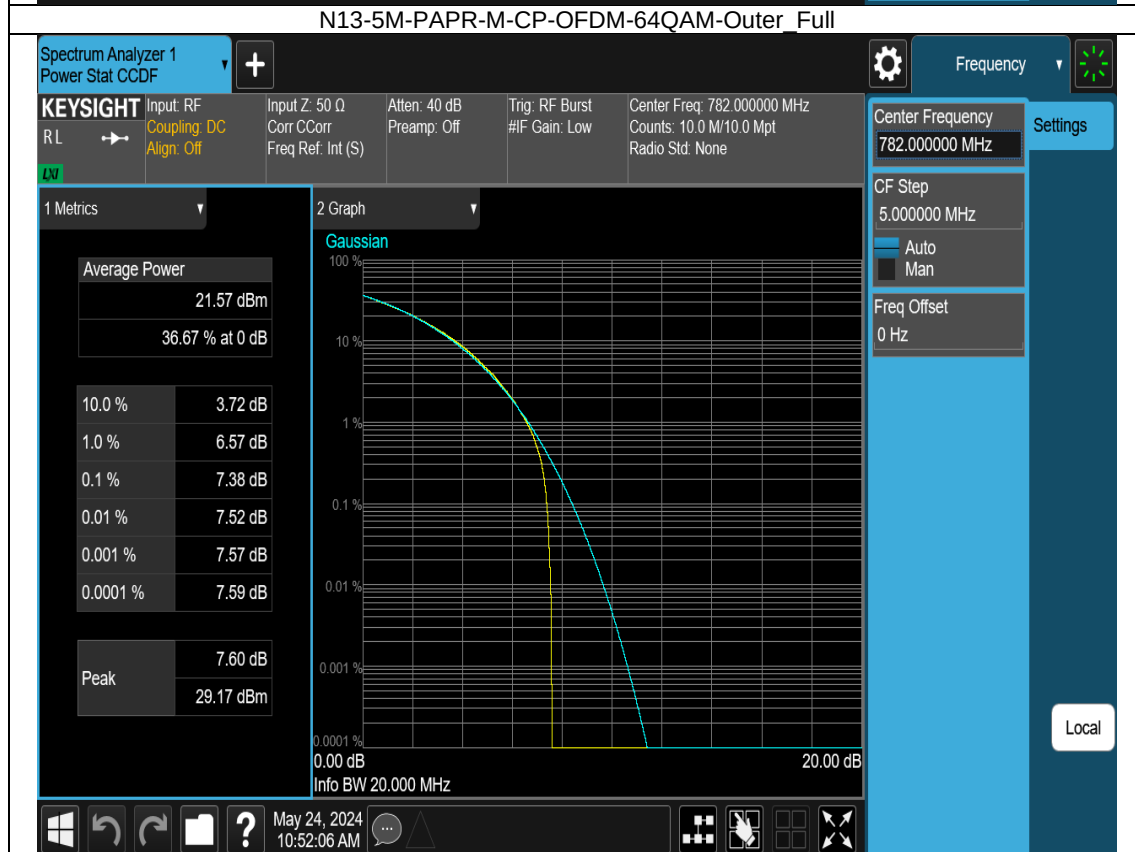
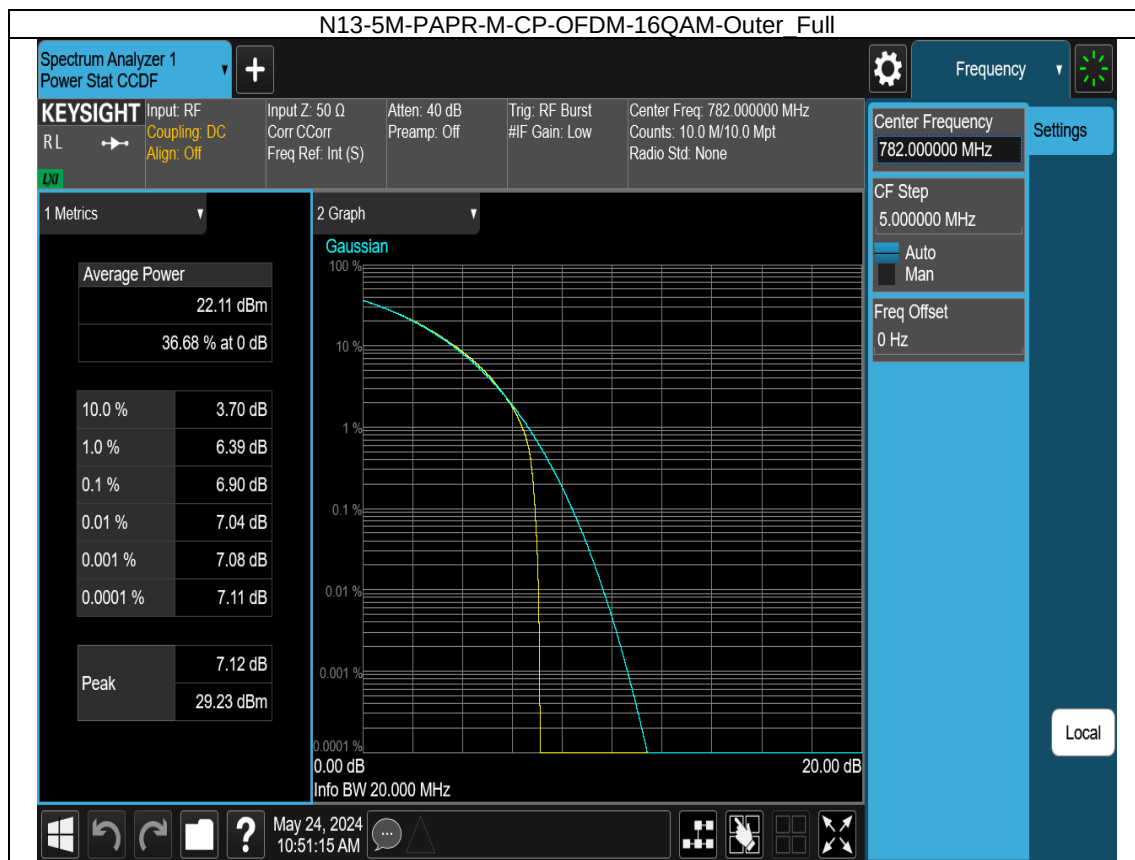


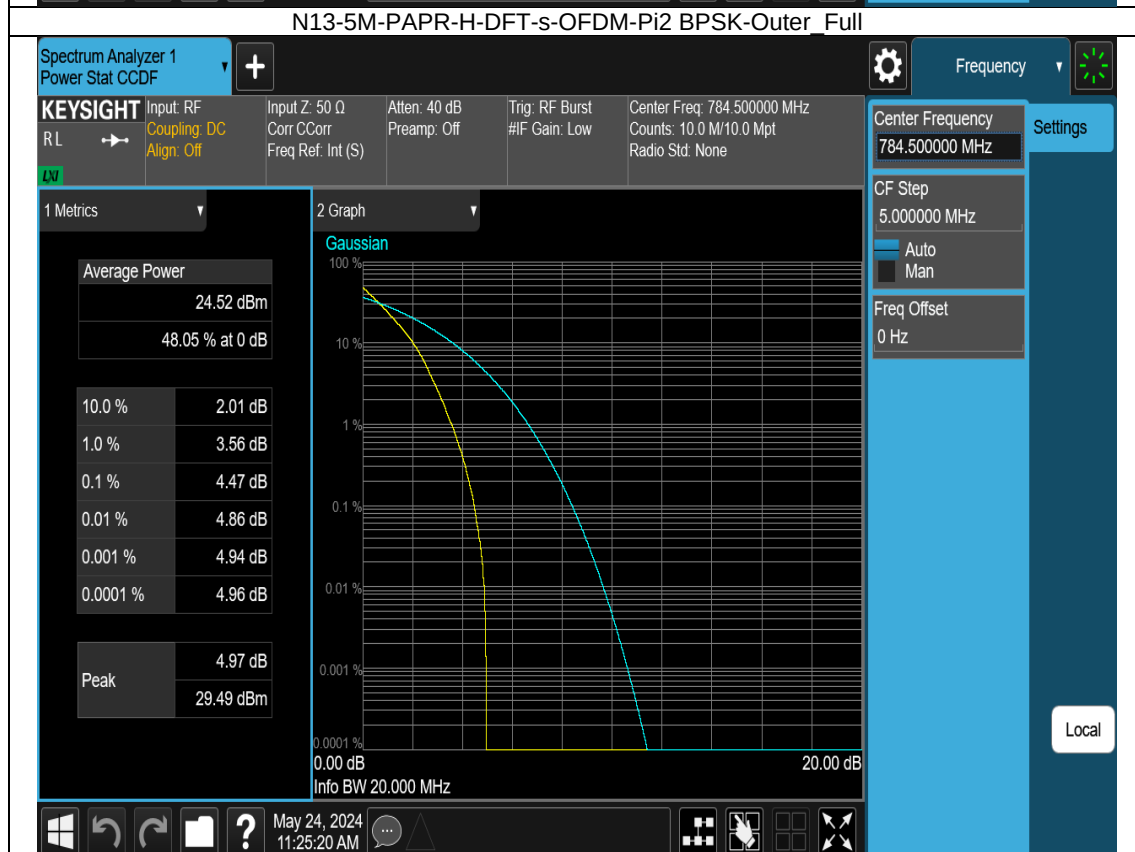


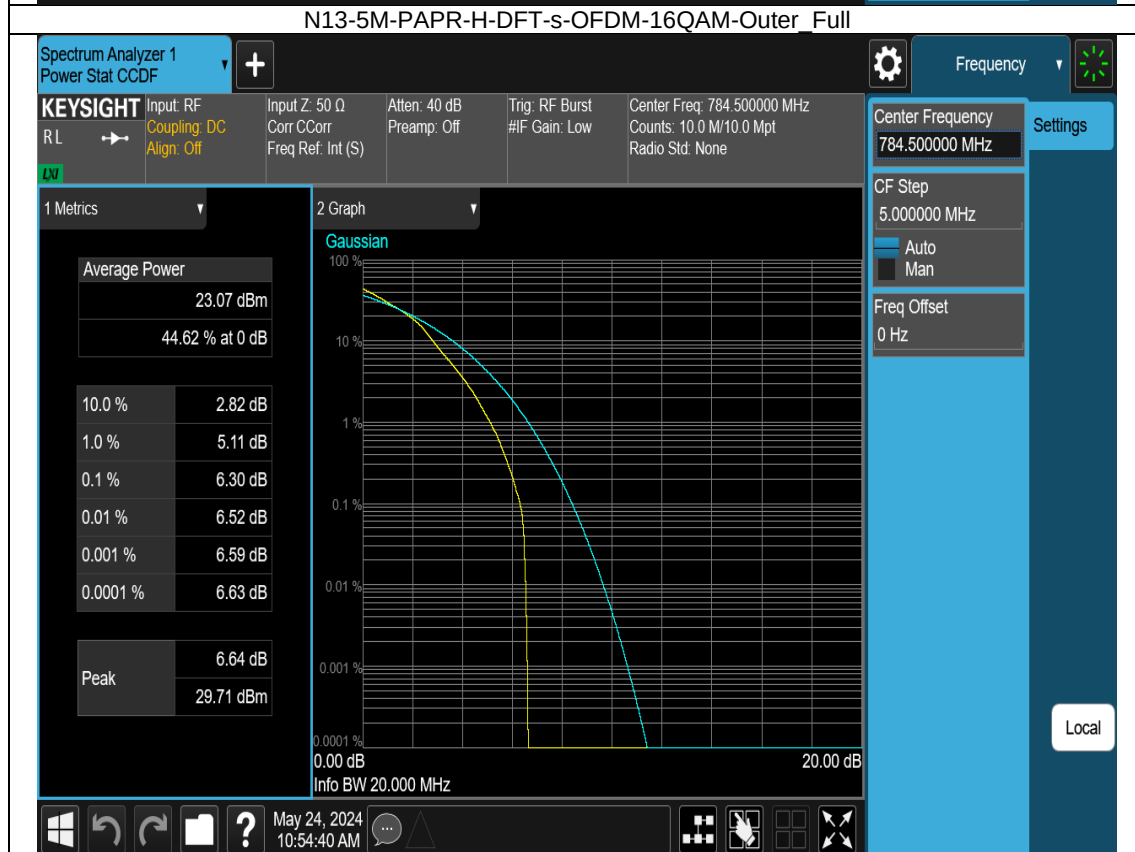
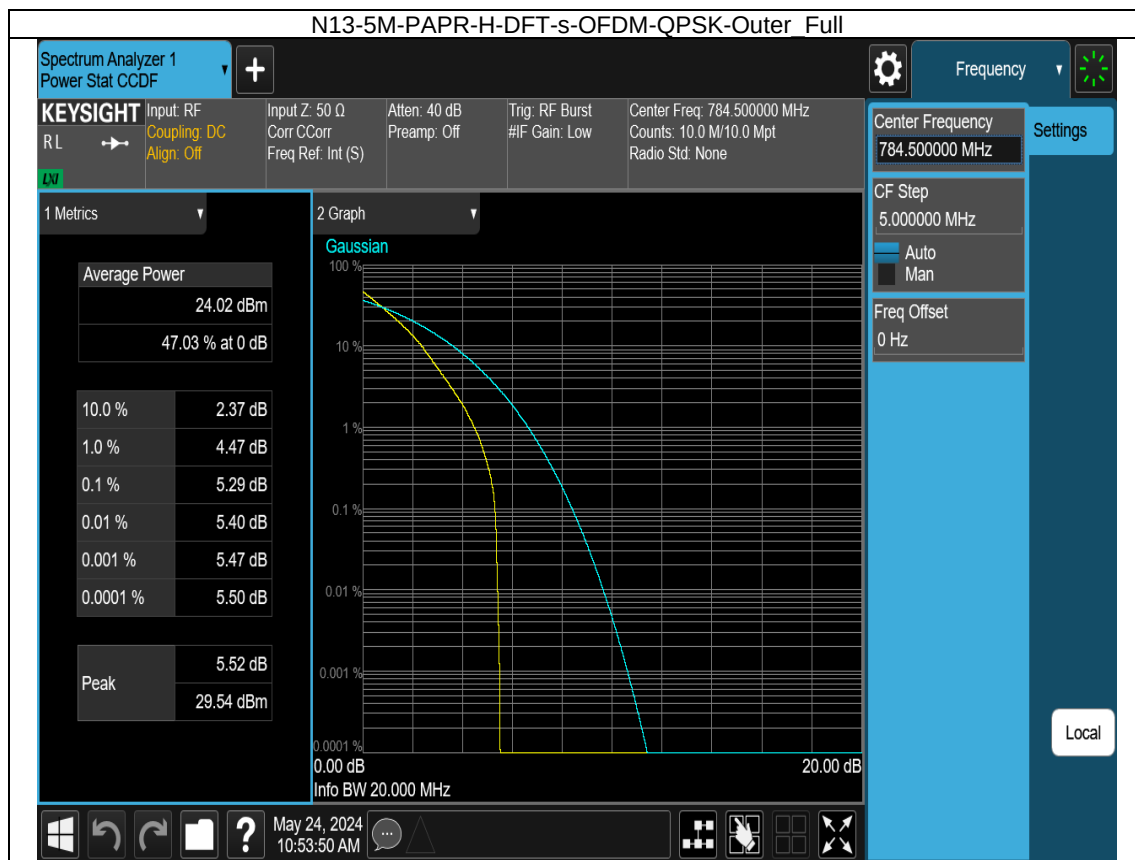












N13-5M-PAPR-H-DFT-s-OFDM-64QAM-Outer Full



N13-5M-PAPR-H-DFT-s-OFDM-256QAM-Outer Full



