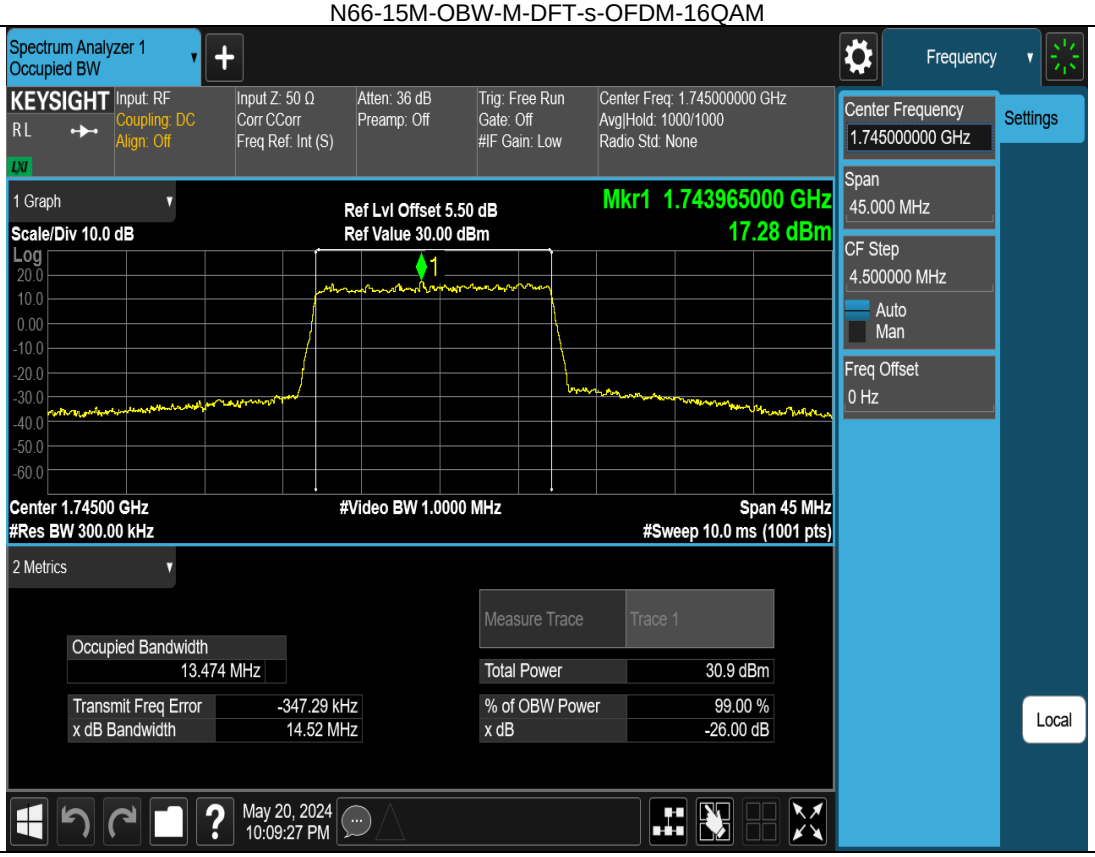
N66-15M-OBW-M-DFT-s-OFDM-16QAM



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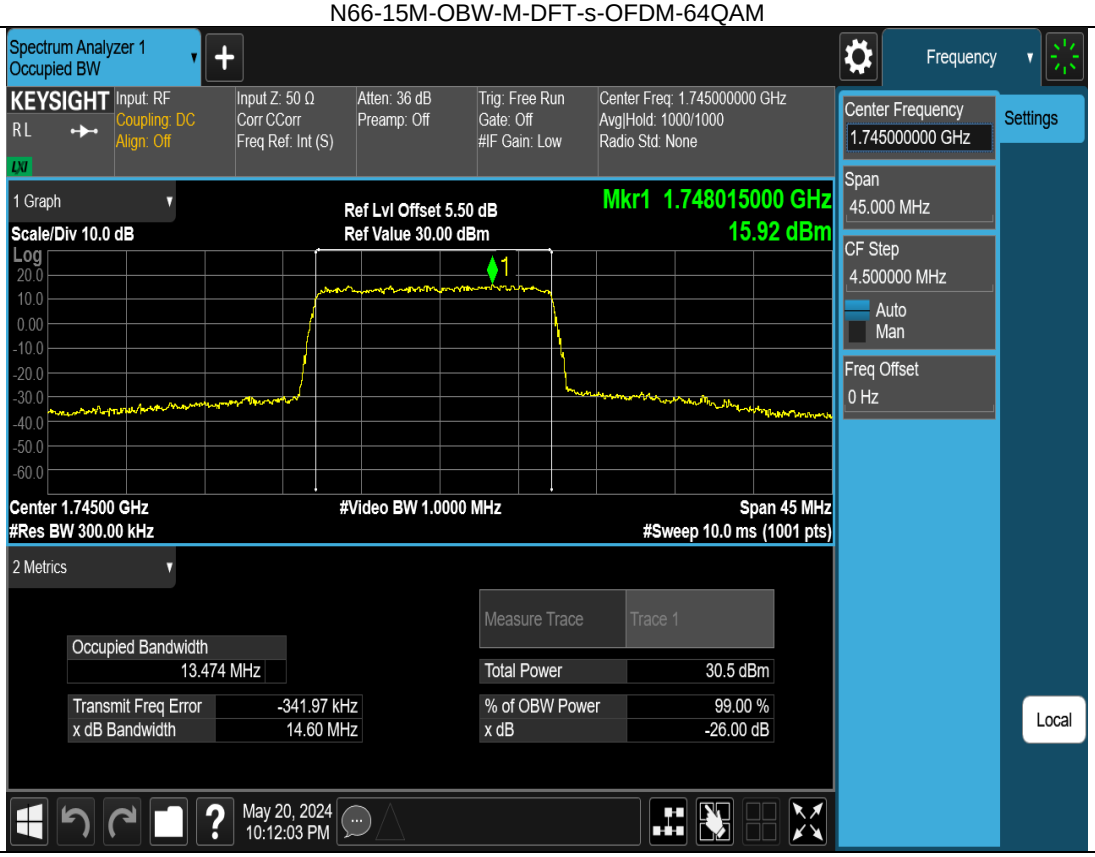

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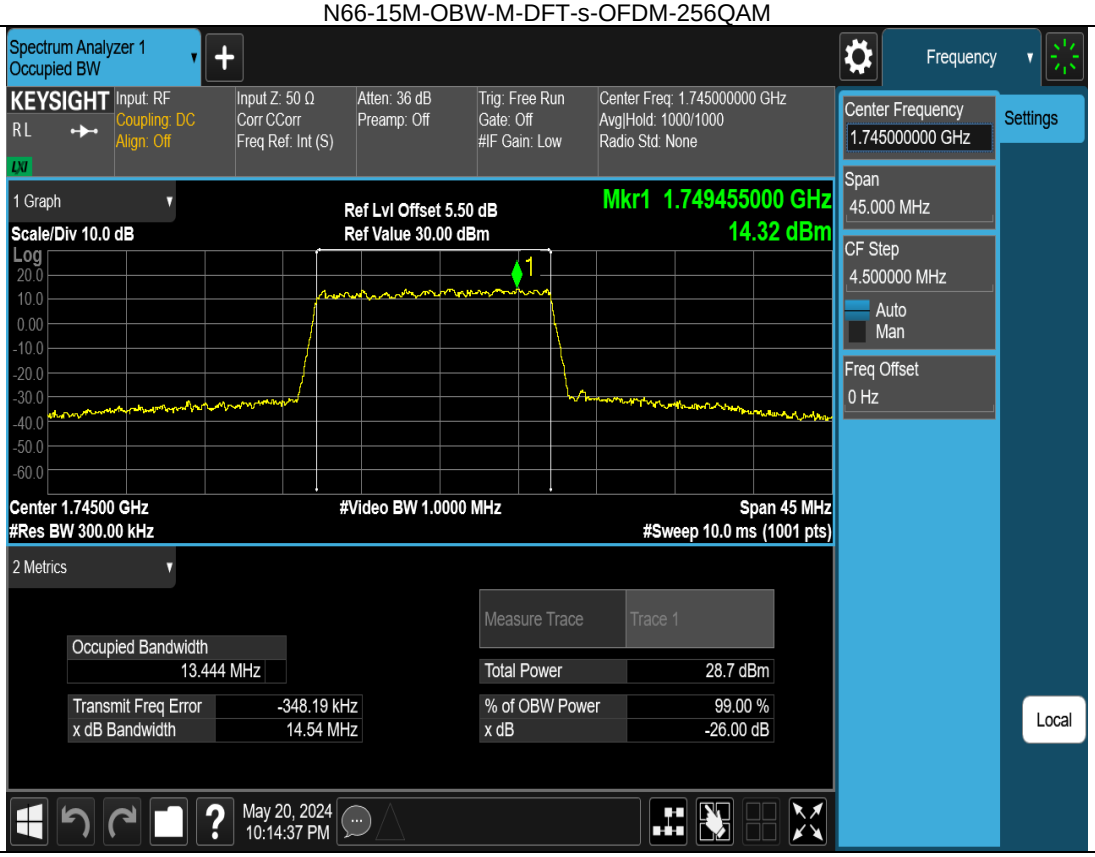
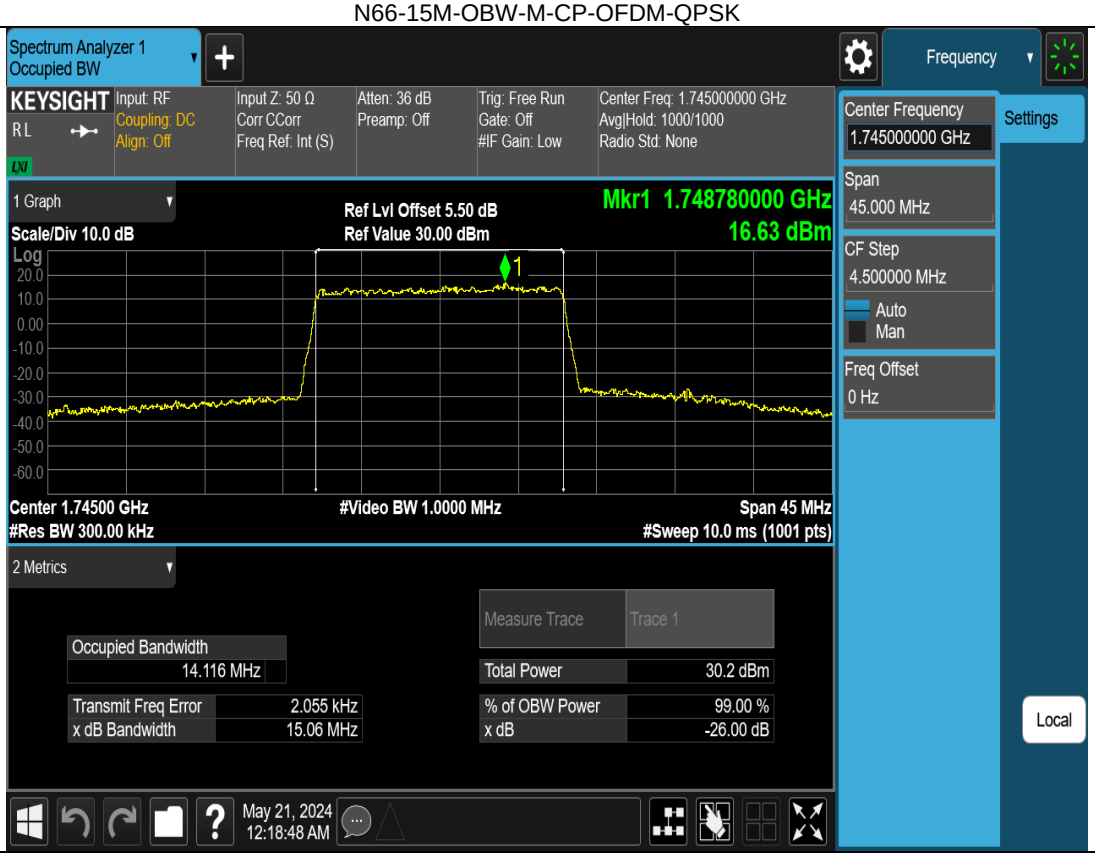


N66-15M-OBW-M-CP-OFDM-QPSK



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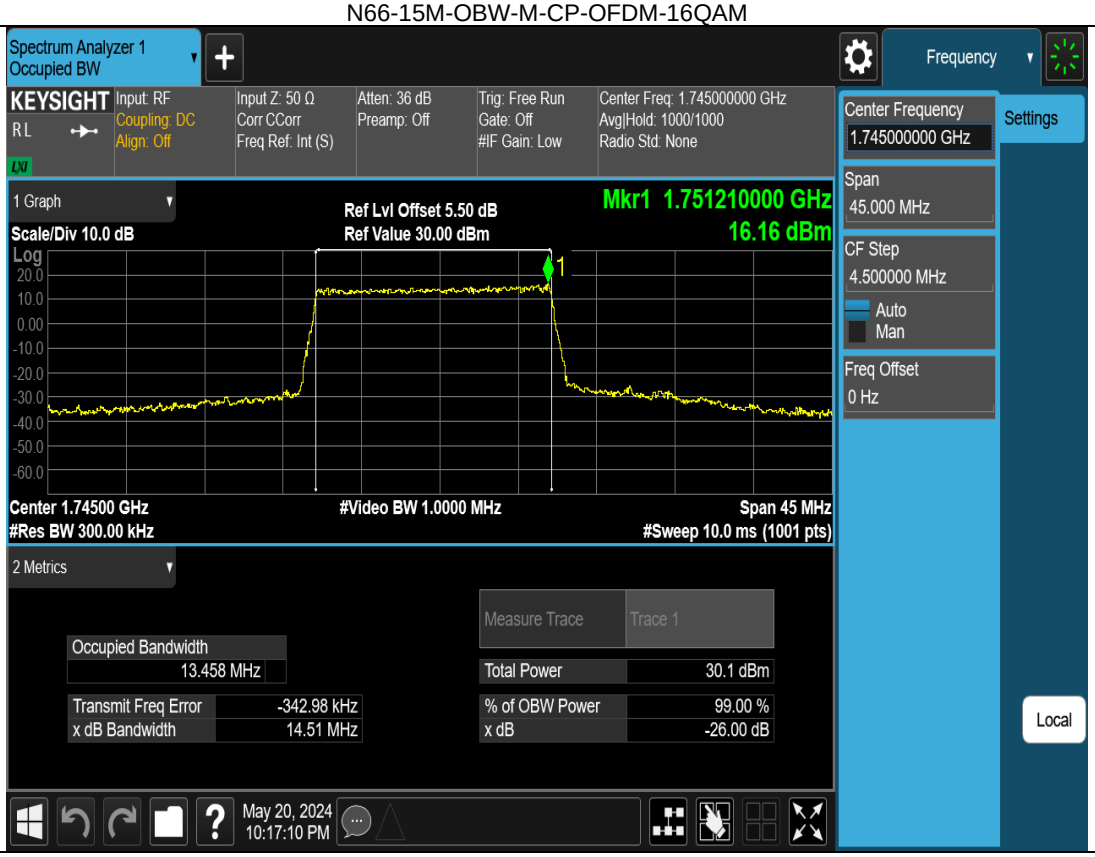

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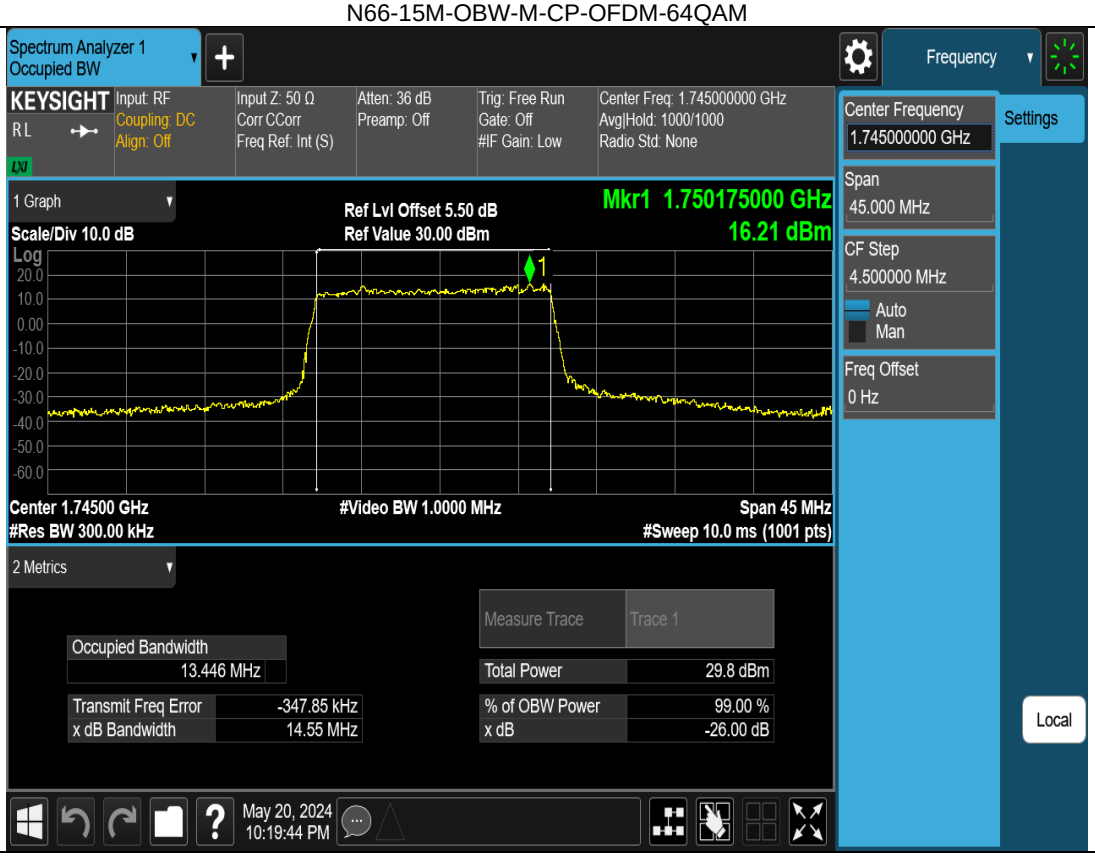

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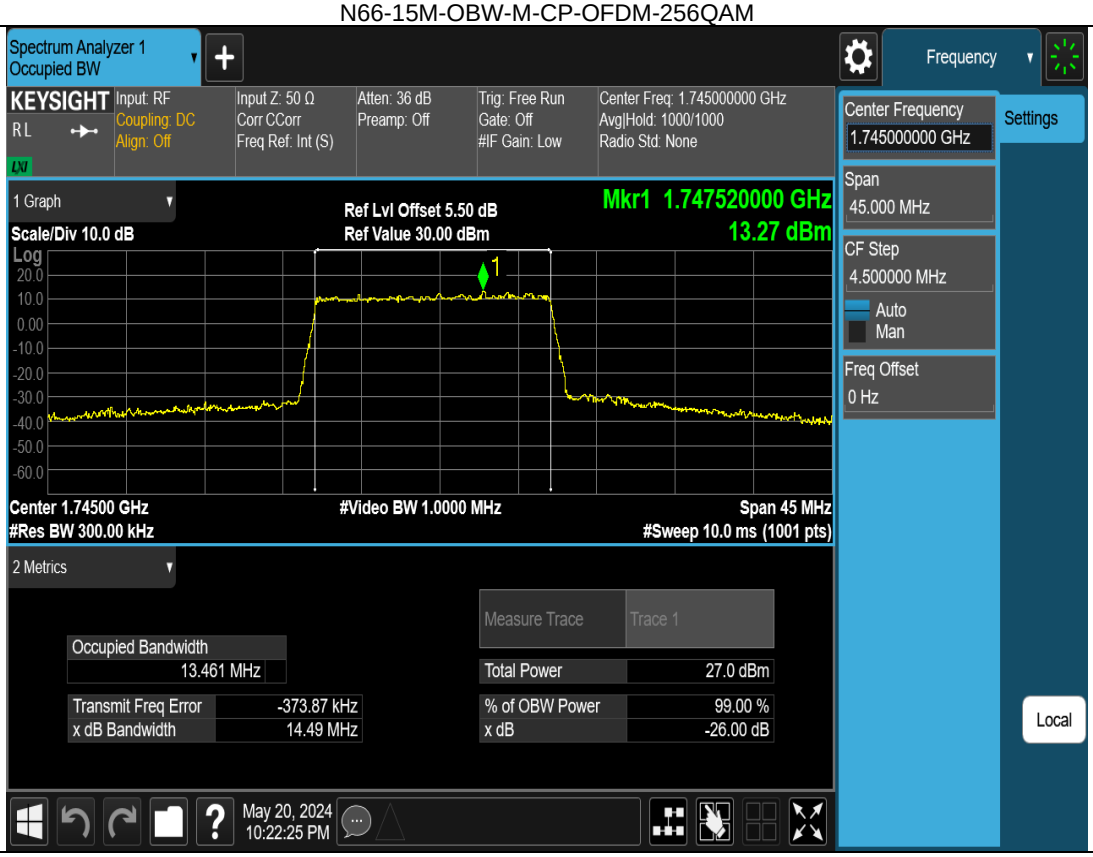
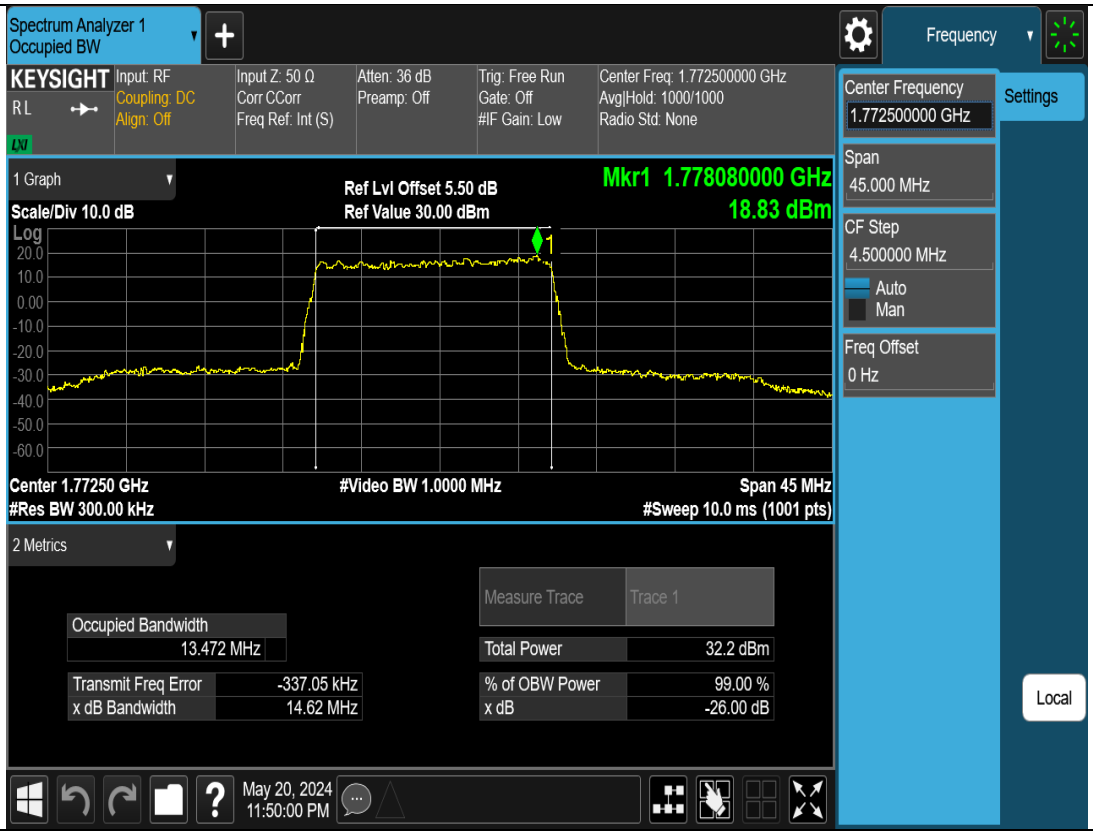
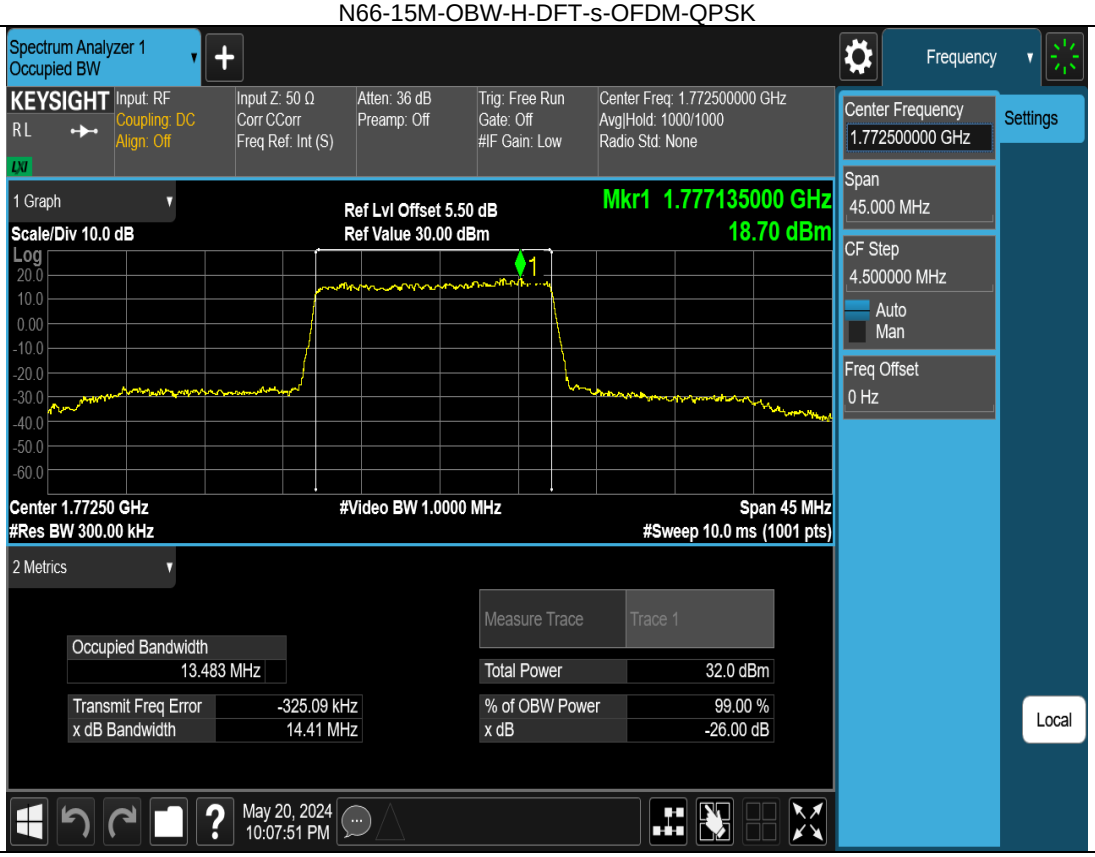


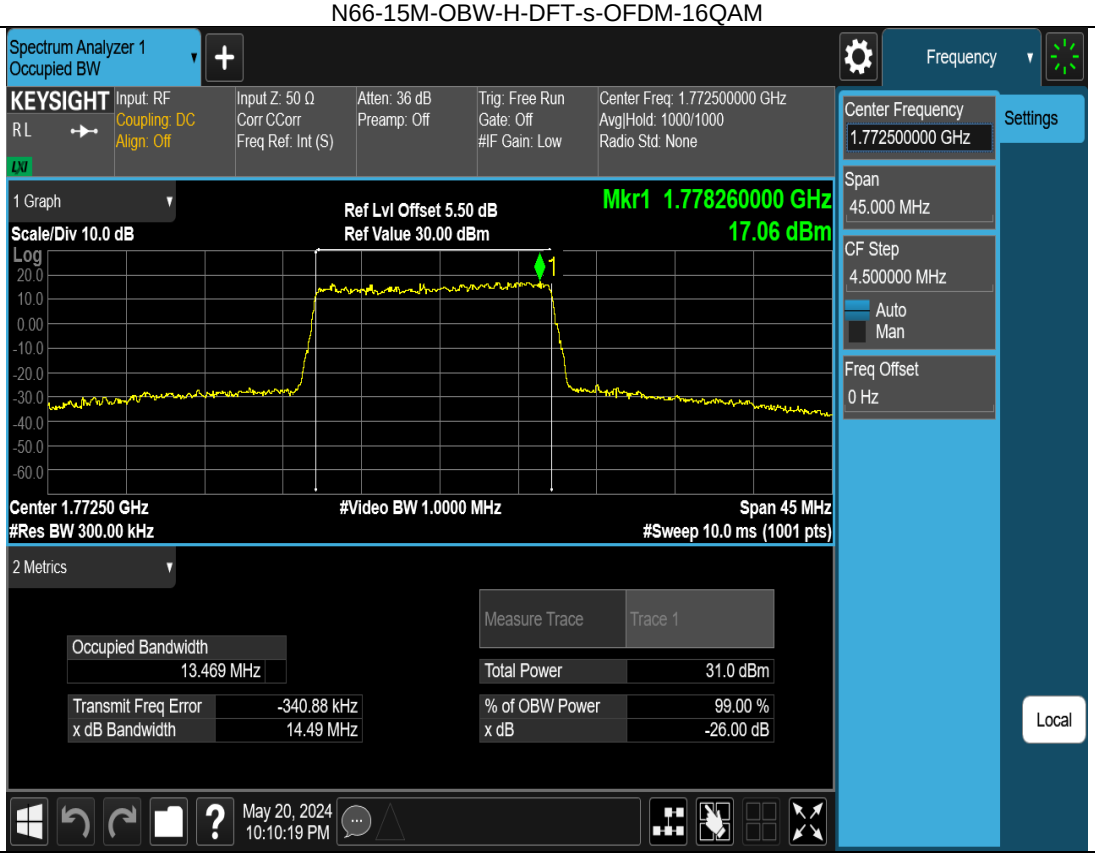
N66-15M-OBW-H-DFT-s-OFDM-Pi2 BPSK



N66-15M-OBW-H-DFT-s-OFDM-QPSK



N66-15M-OBW-H-DFT-s-OFDM-16QAM



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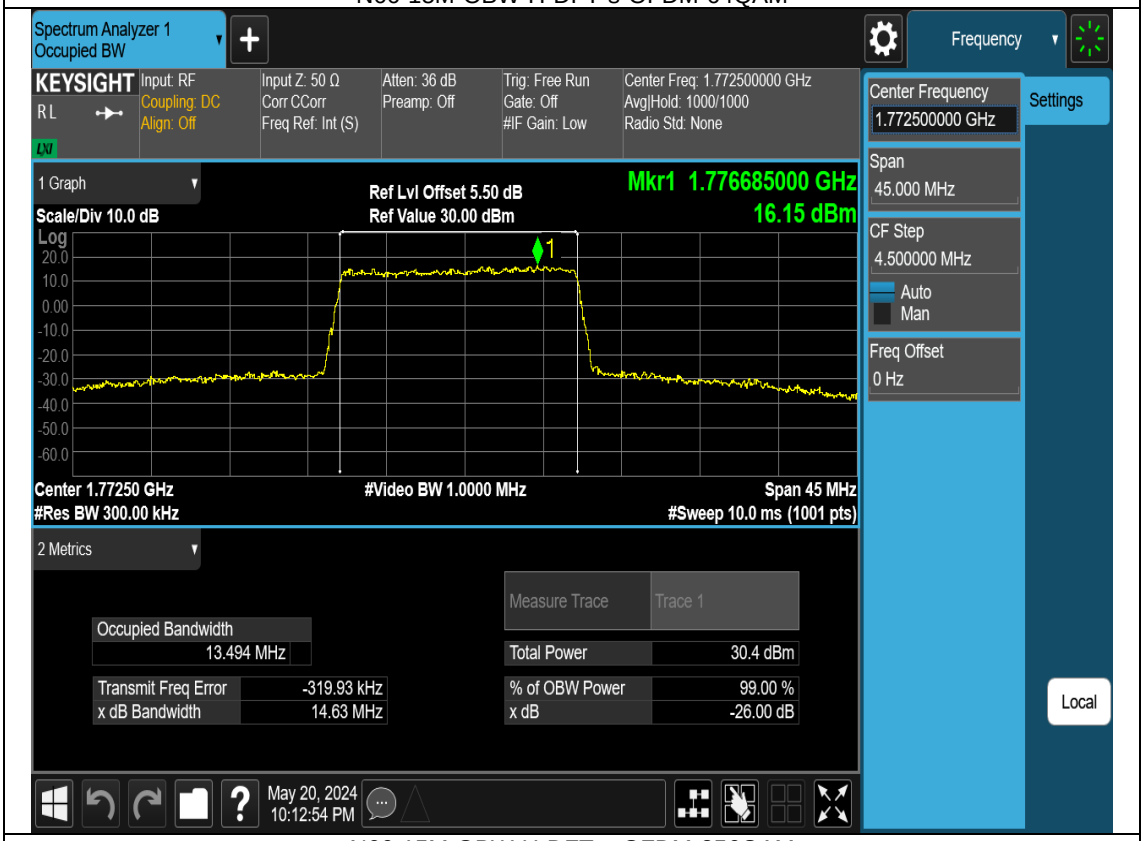

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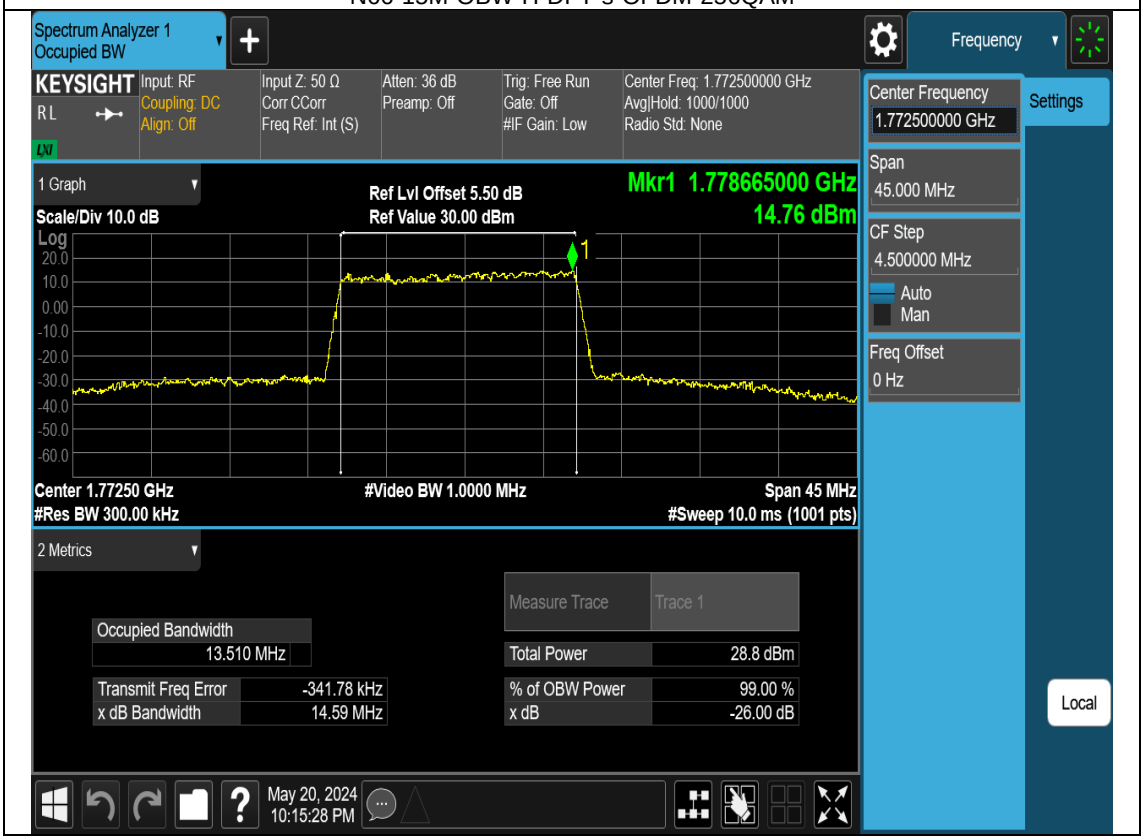
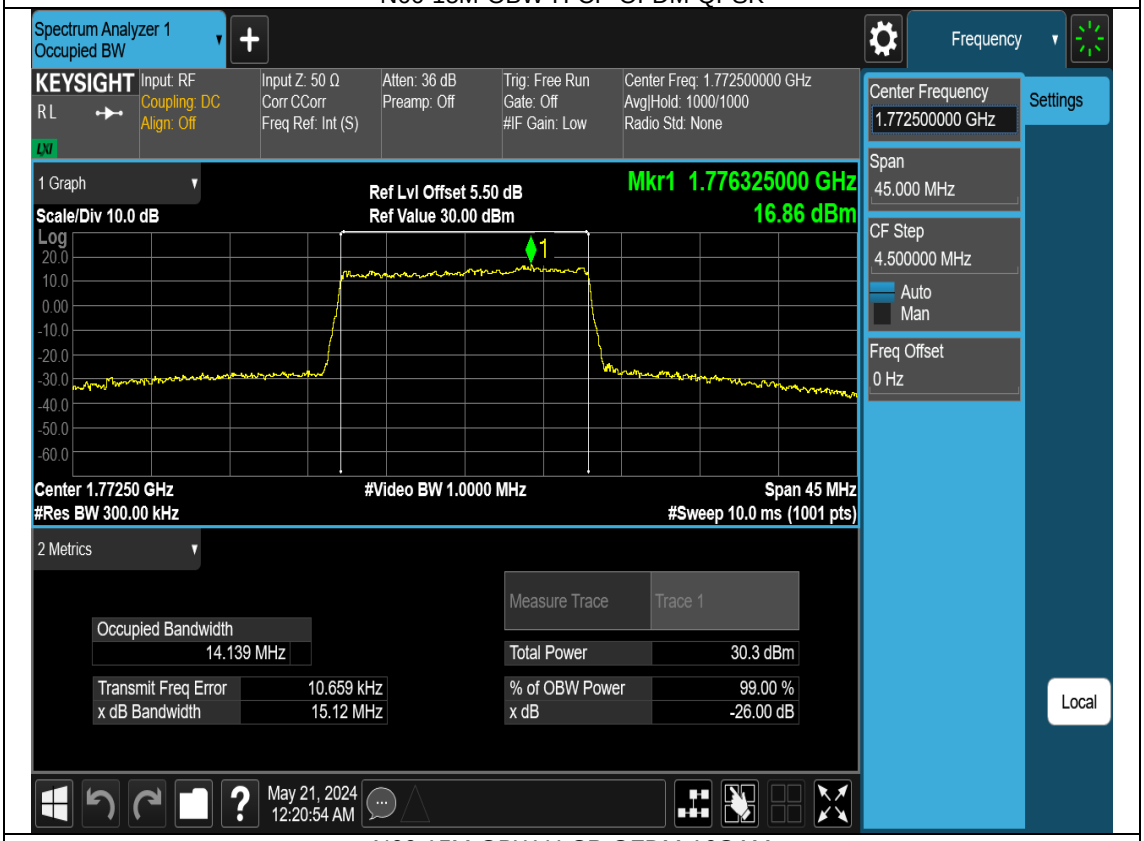


N66-15M-OBW-H-CP-OFDM-QPSK



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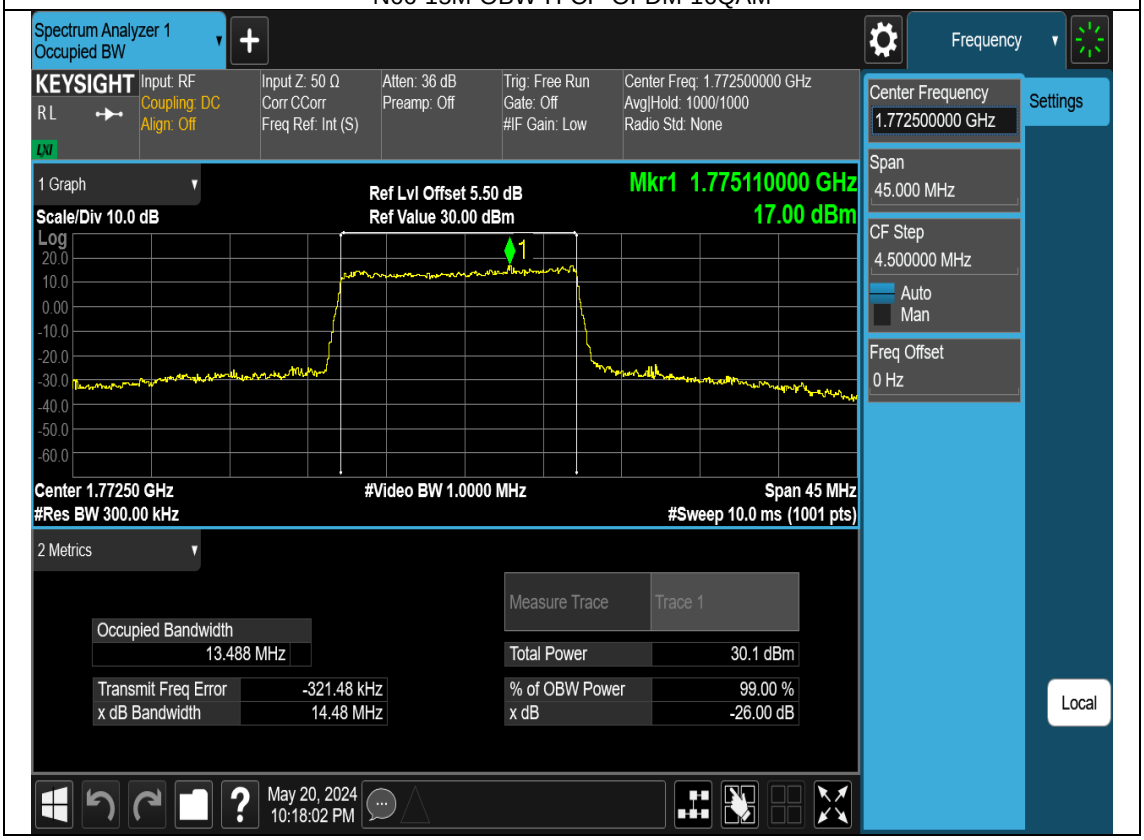

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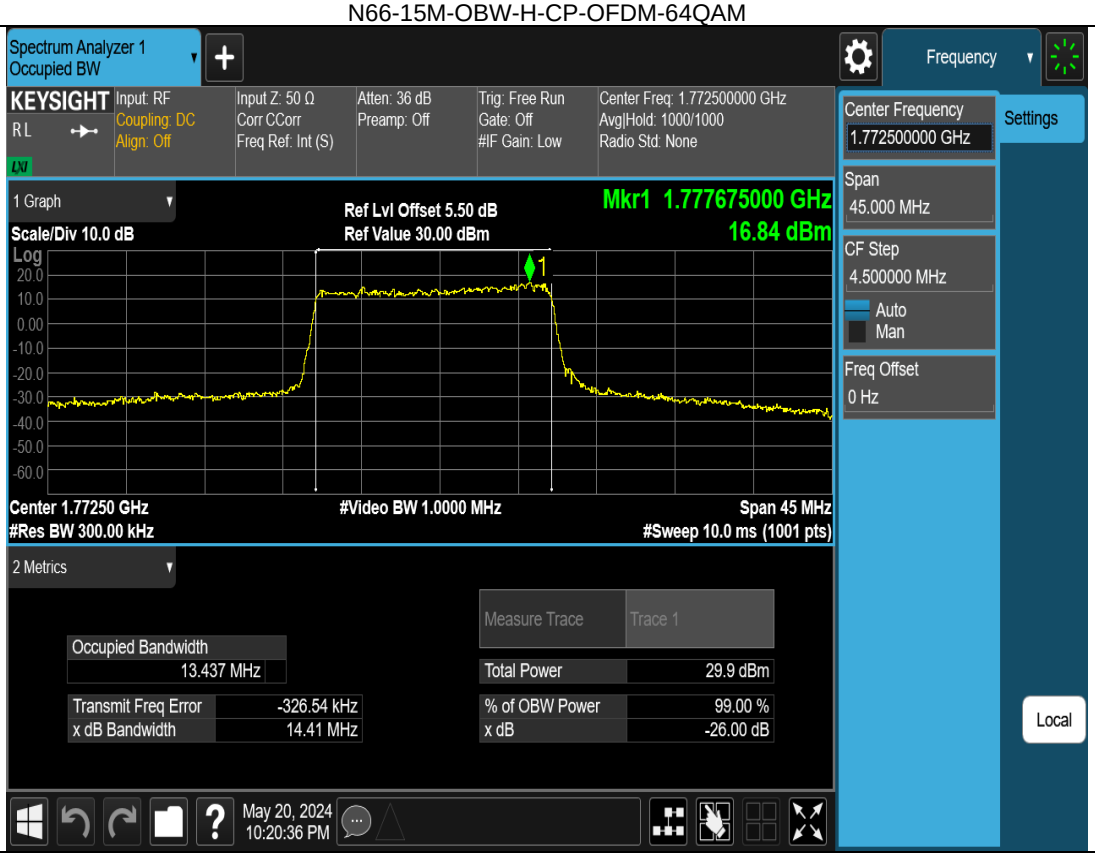

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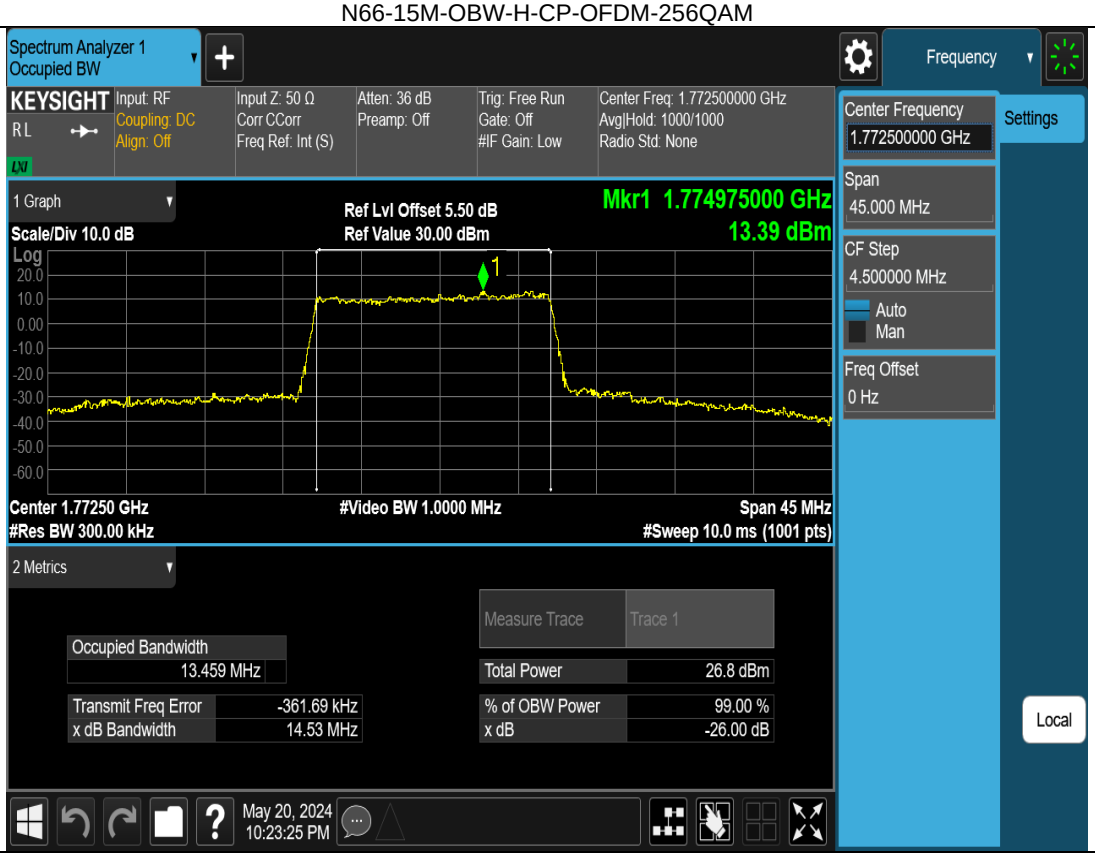
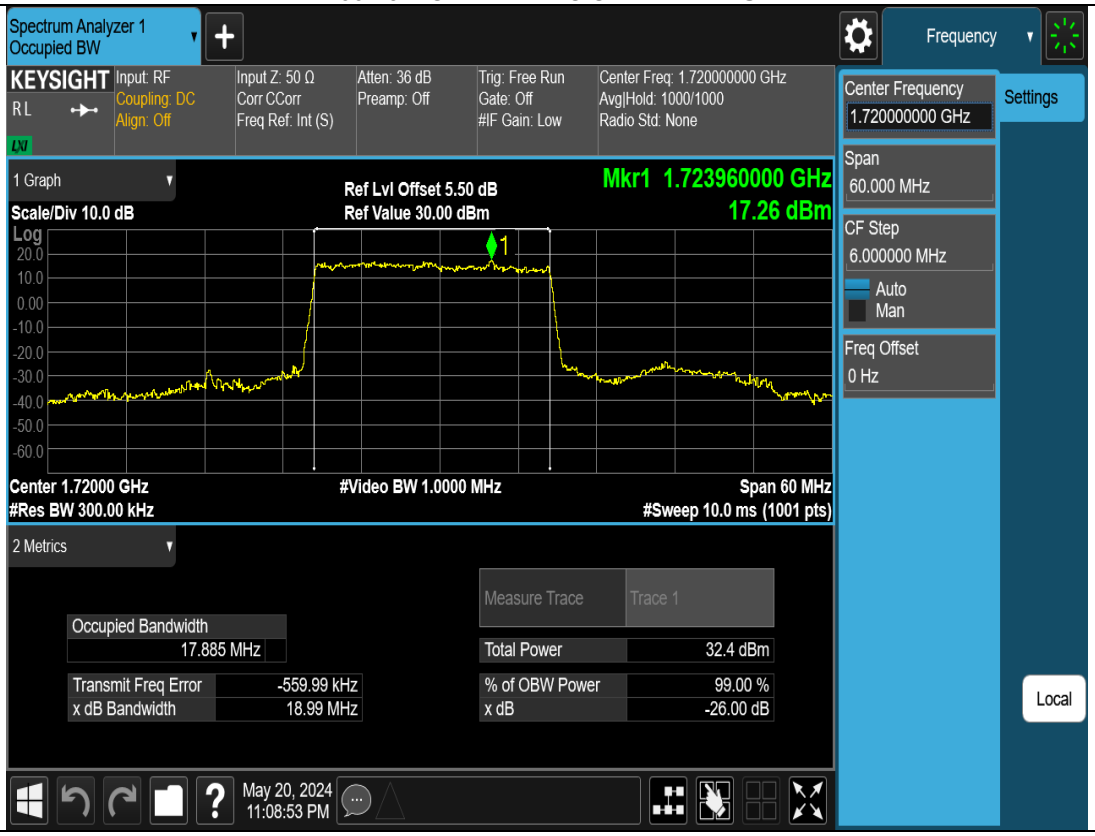


N66-20M-OBW-L-DFT-s-OFDM-Pi2 BPSK



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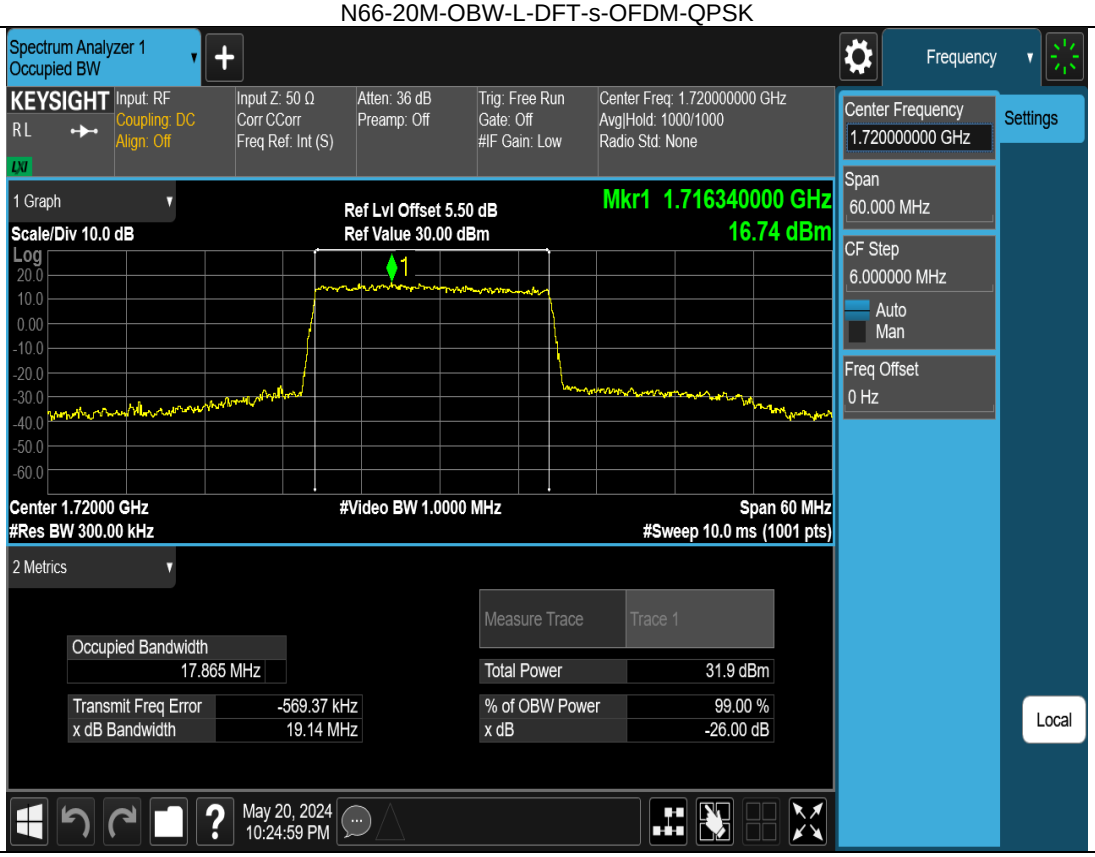

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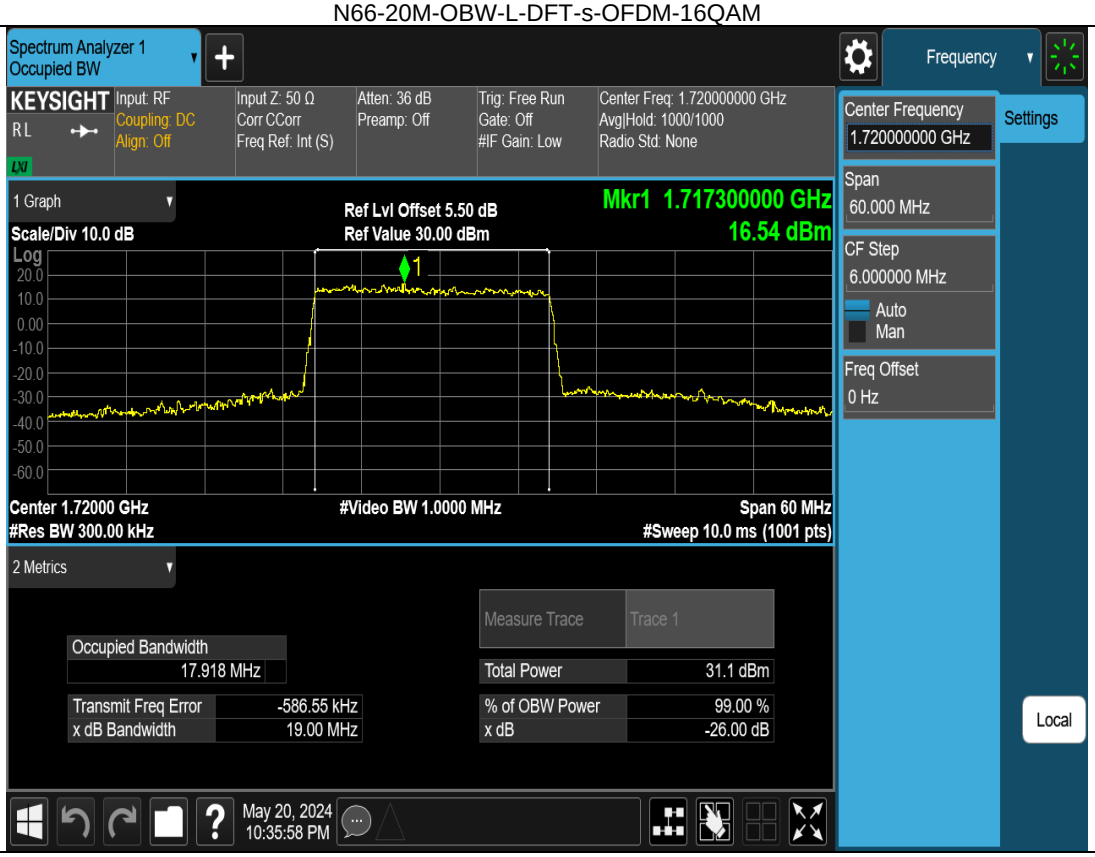

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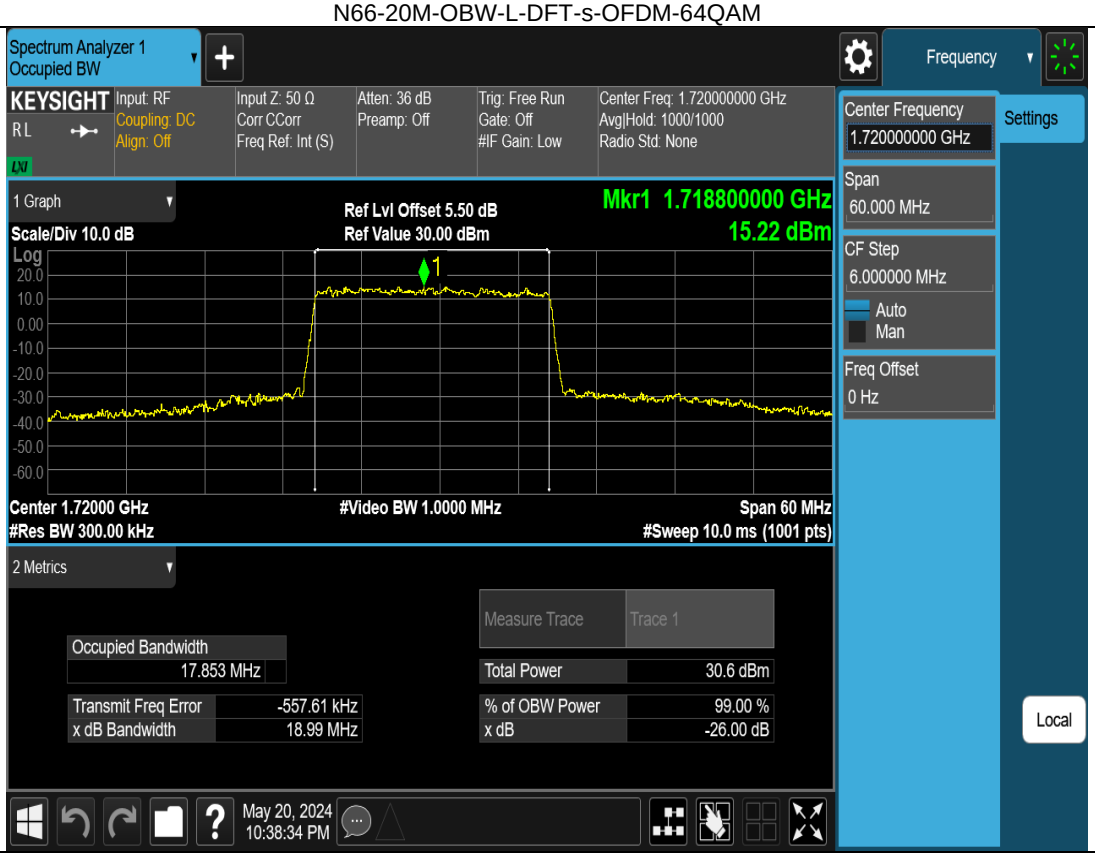
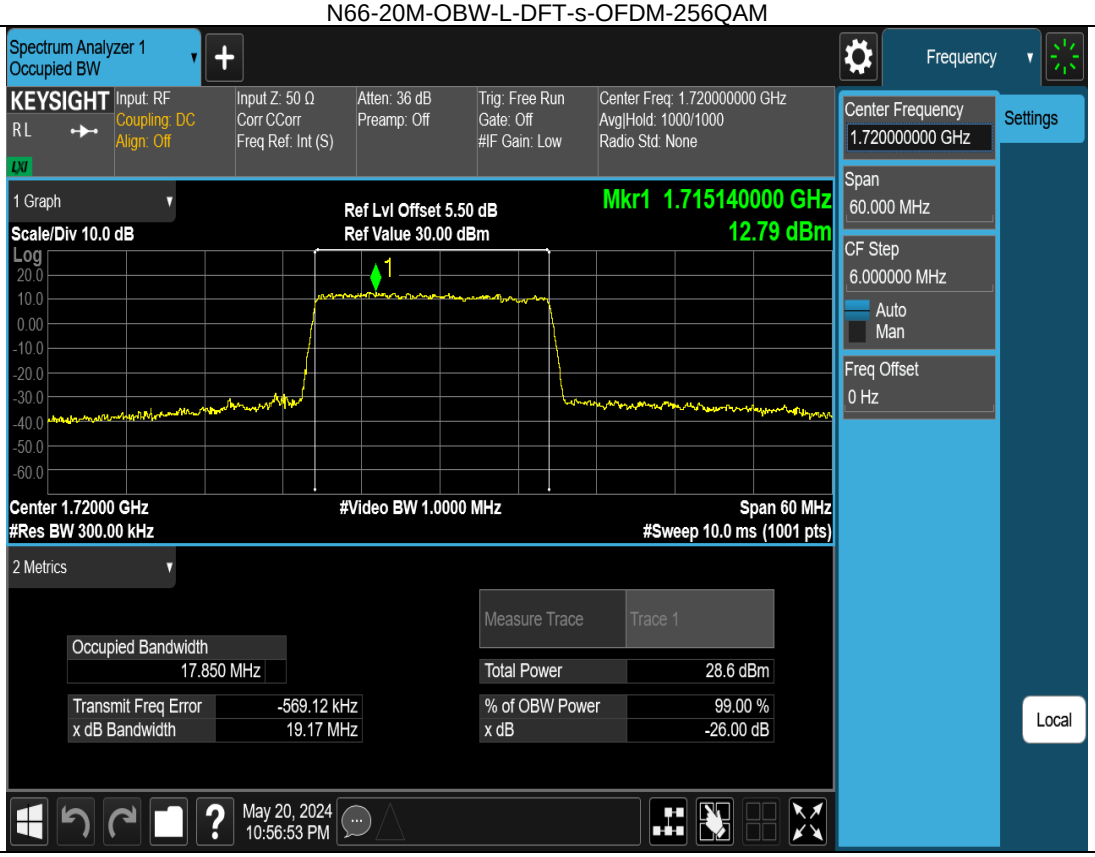
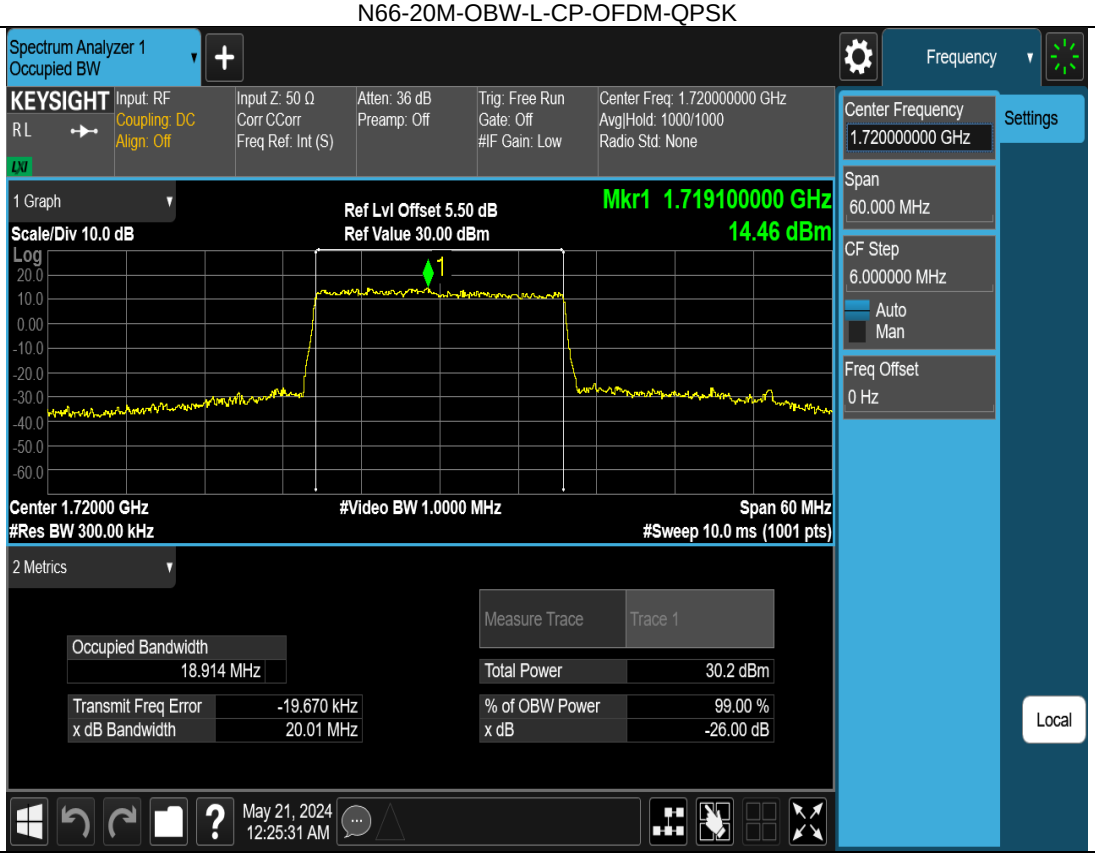


N66-20M-OBW-L-DFT-s-OFDM-256QAM



N66-20M-OBW-L-CP-OFDM-QPSK



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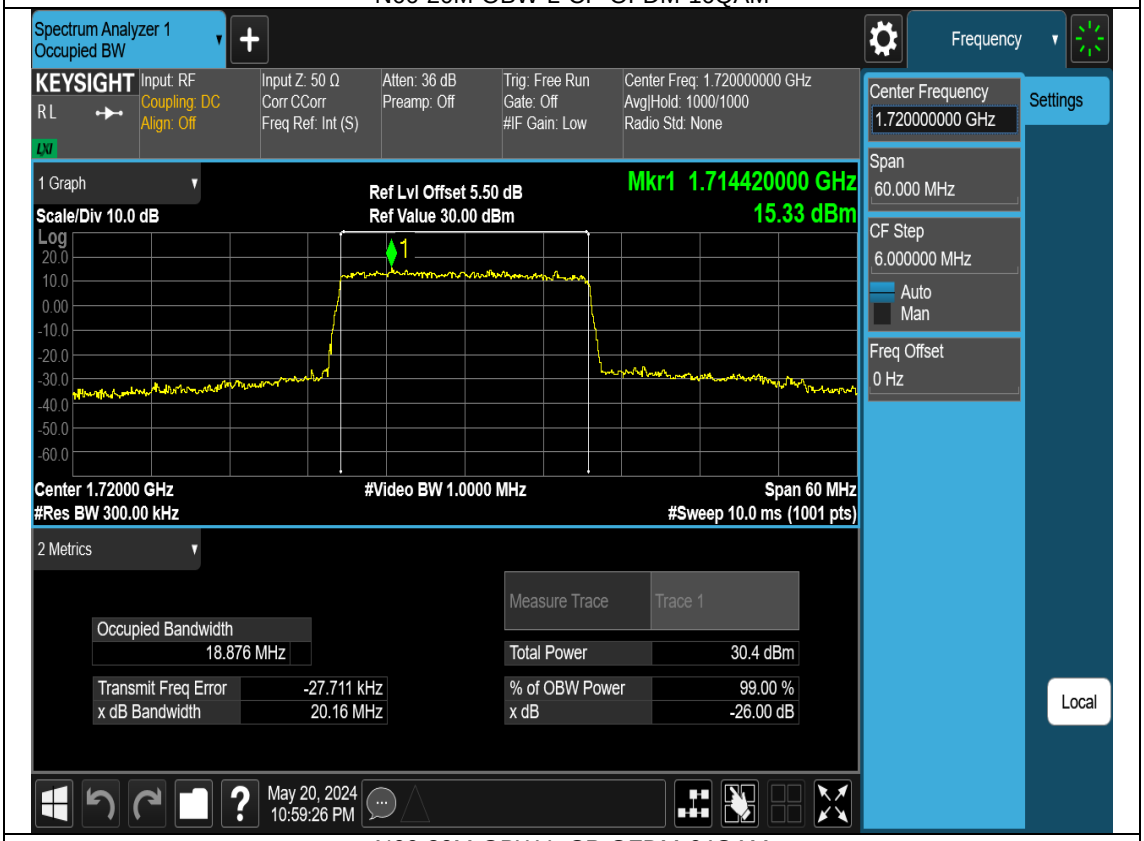

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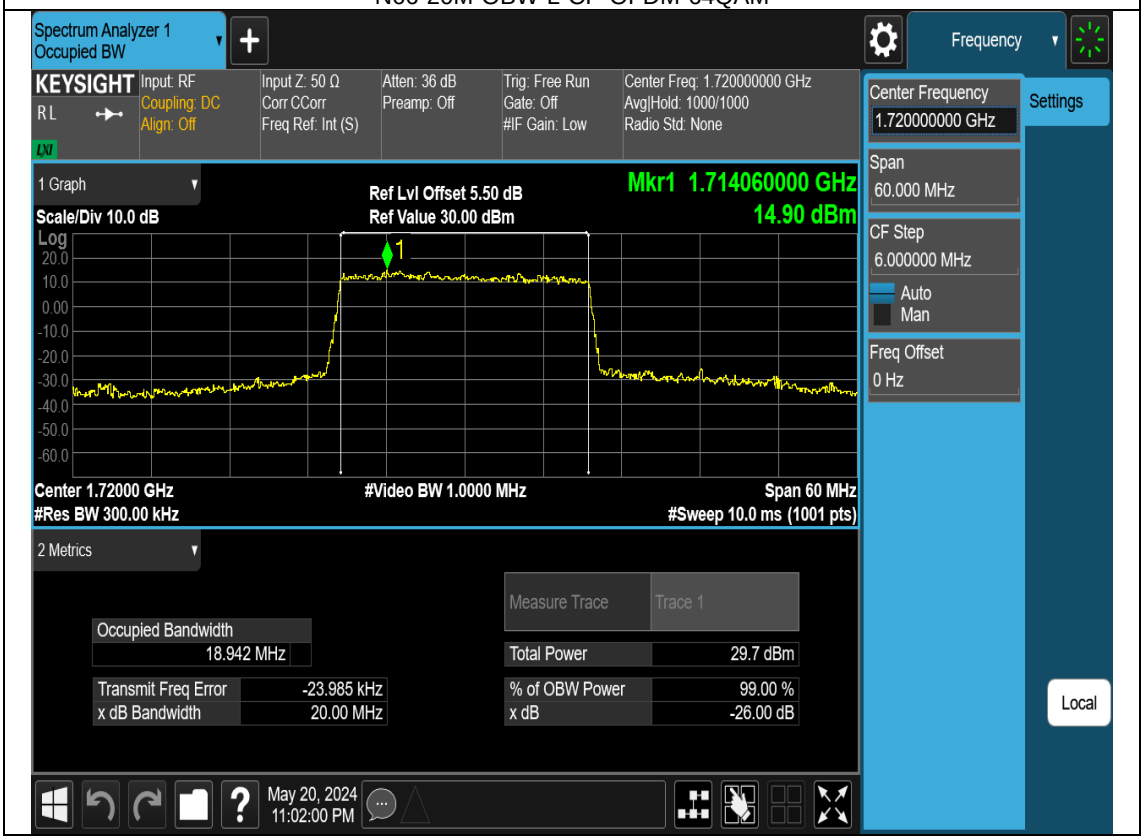

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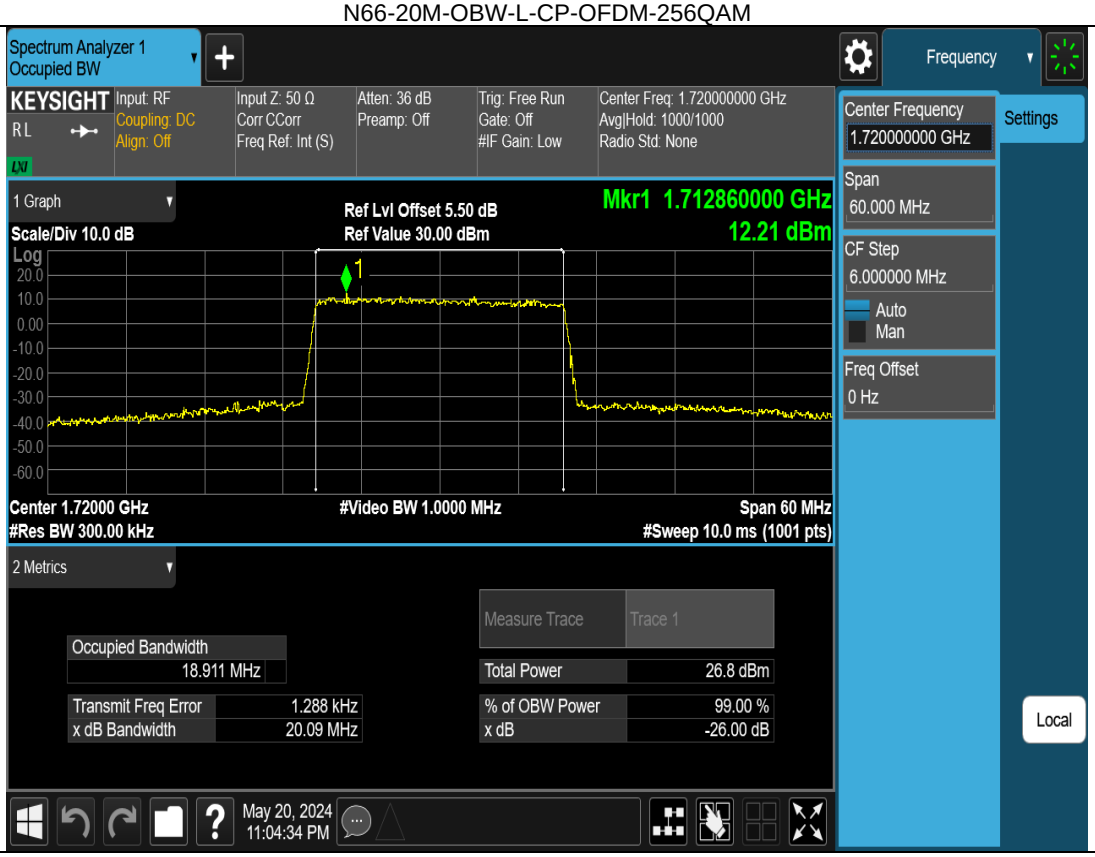
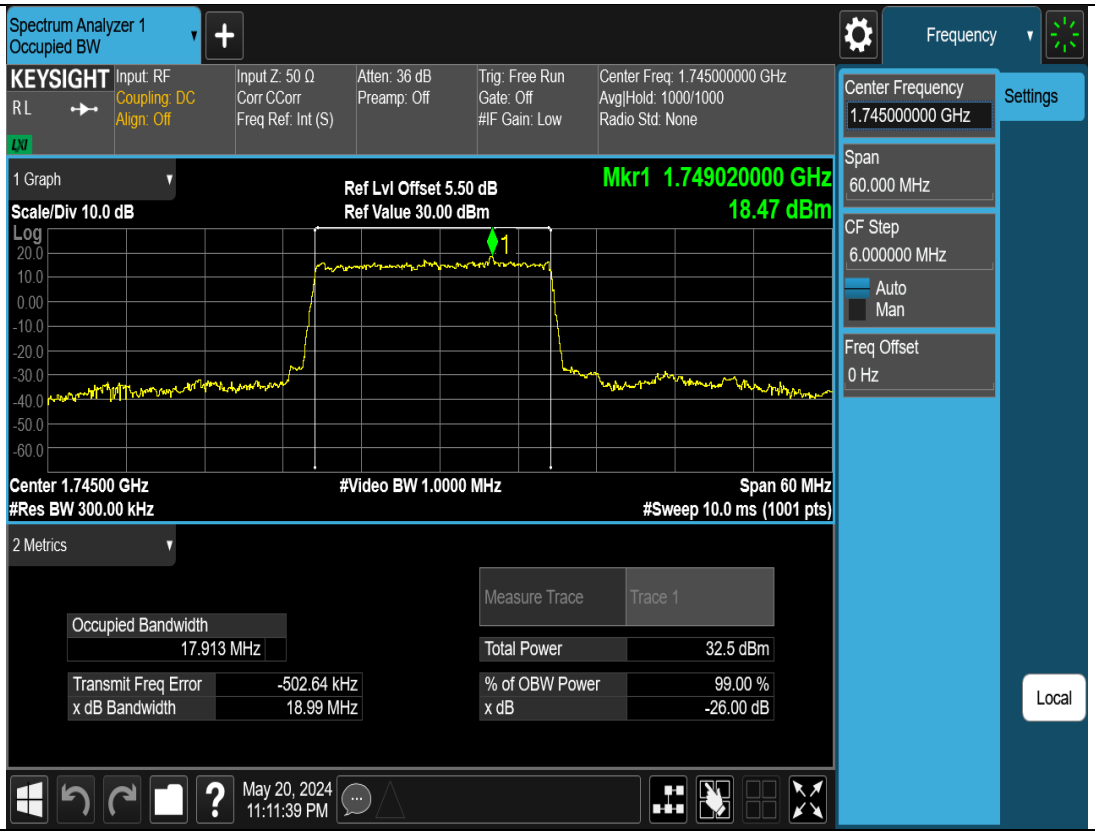


N66-20M-OBW-M-DFT-s-OFDM-Pi2 BPSK



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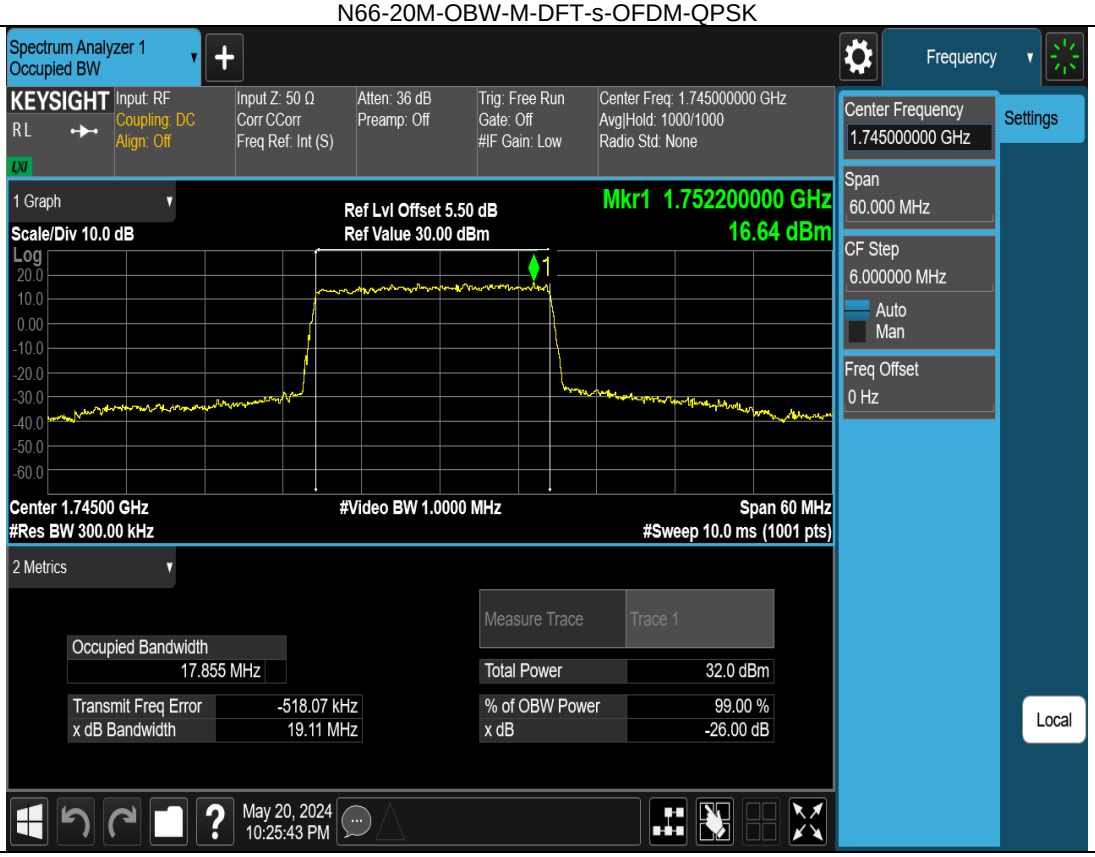

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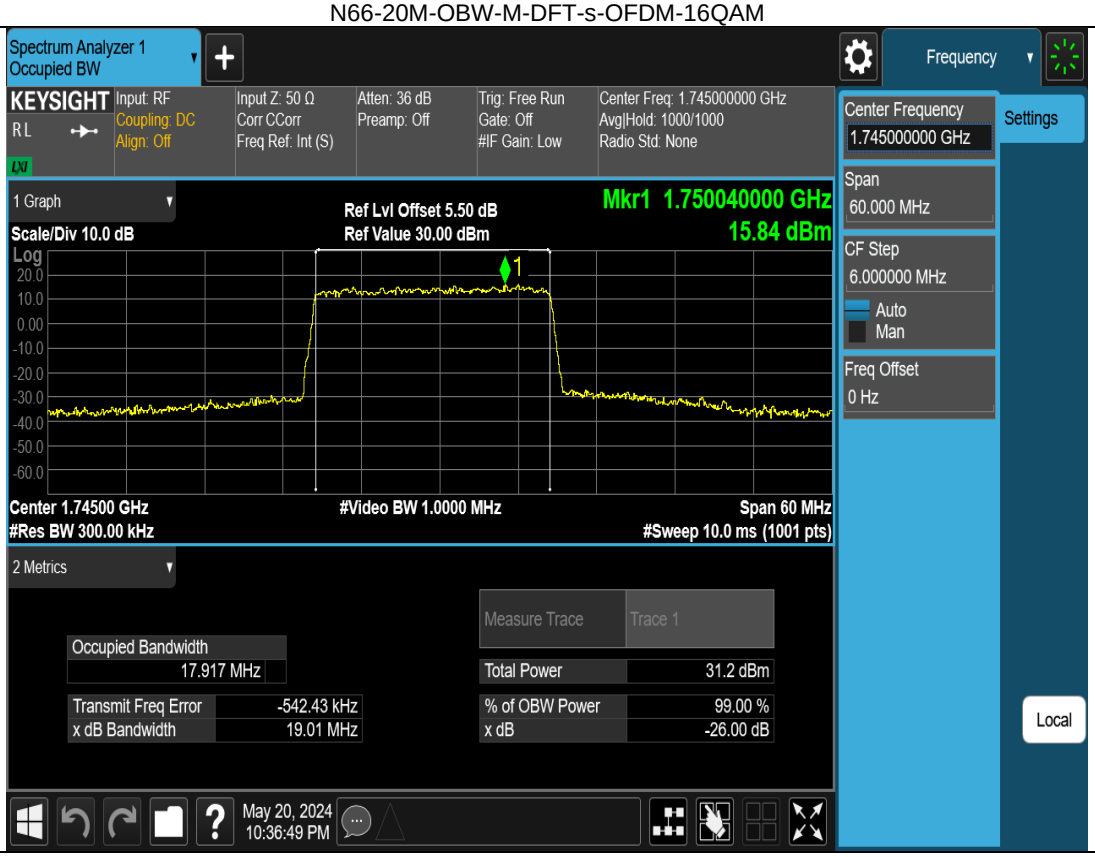

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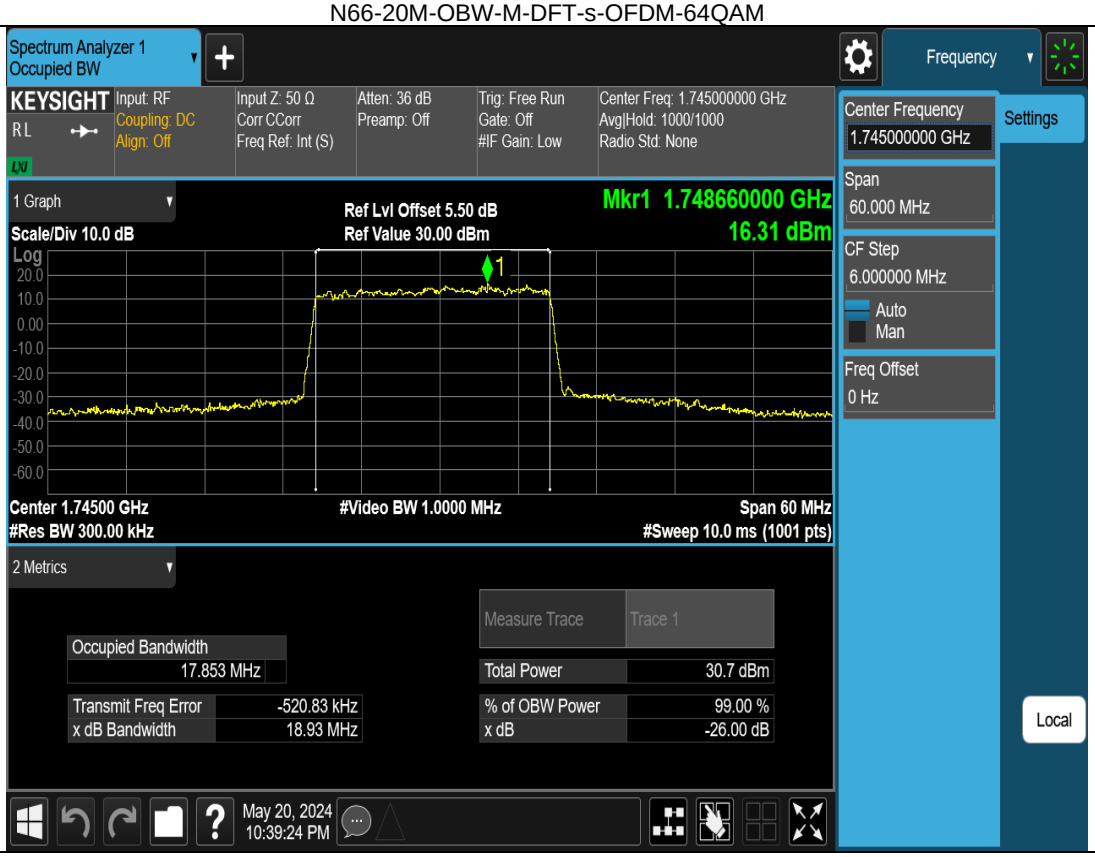

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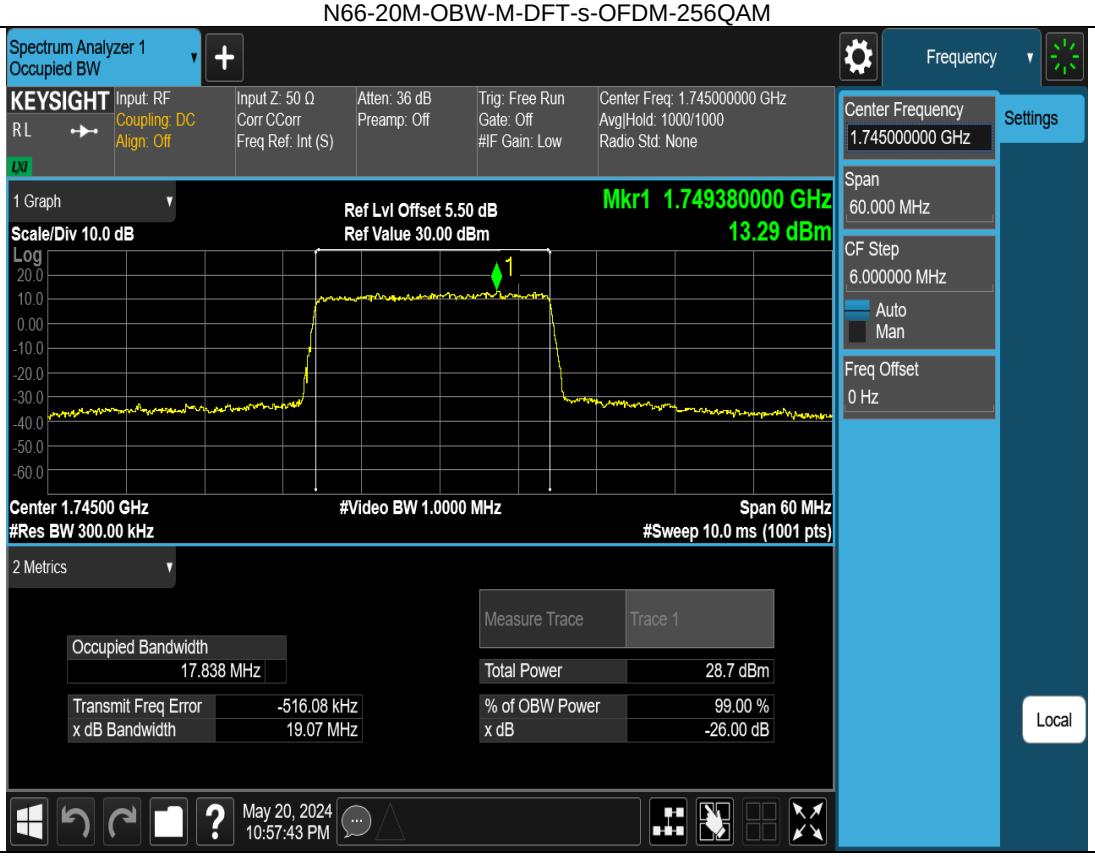

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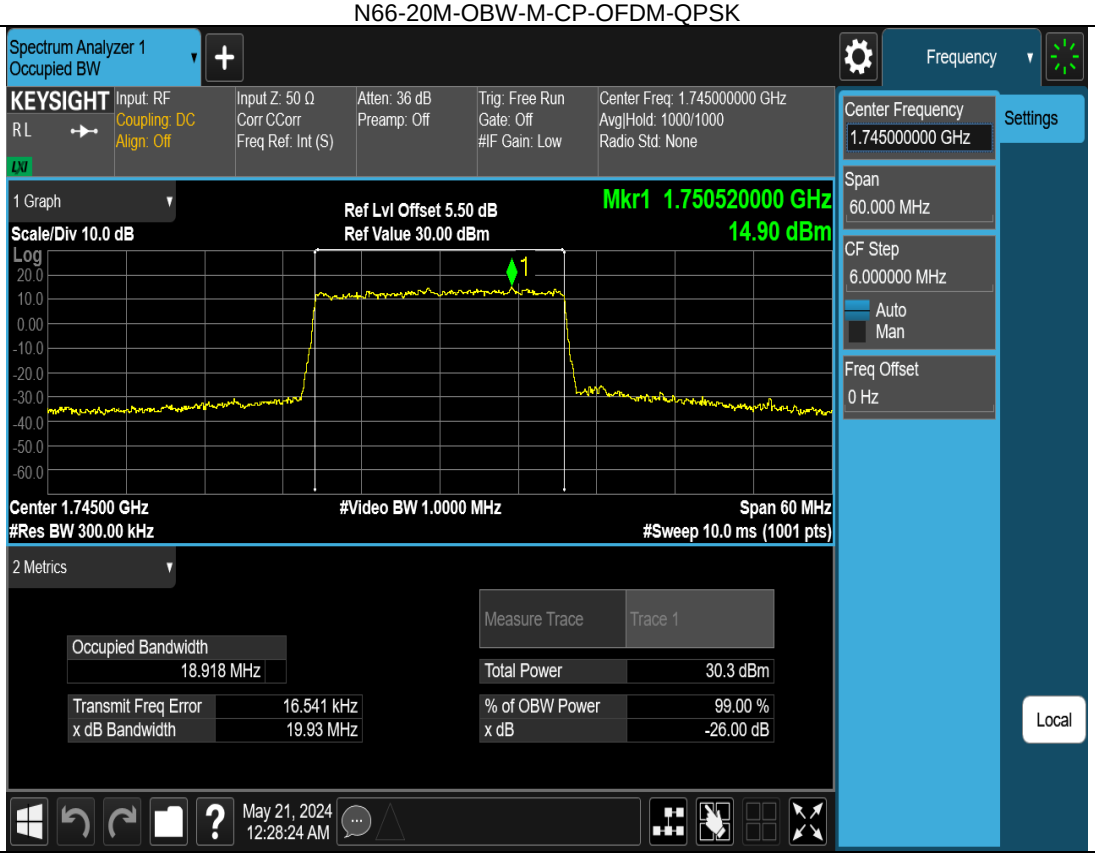

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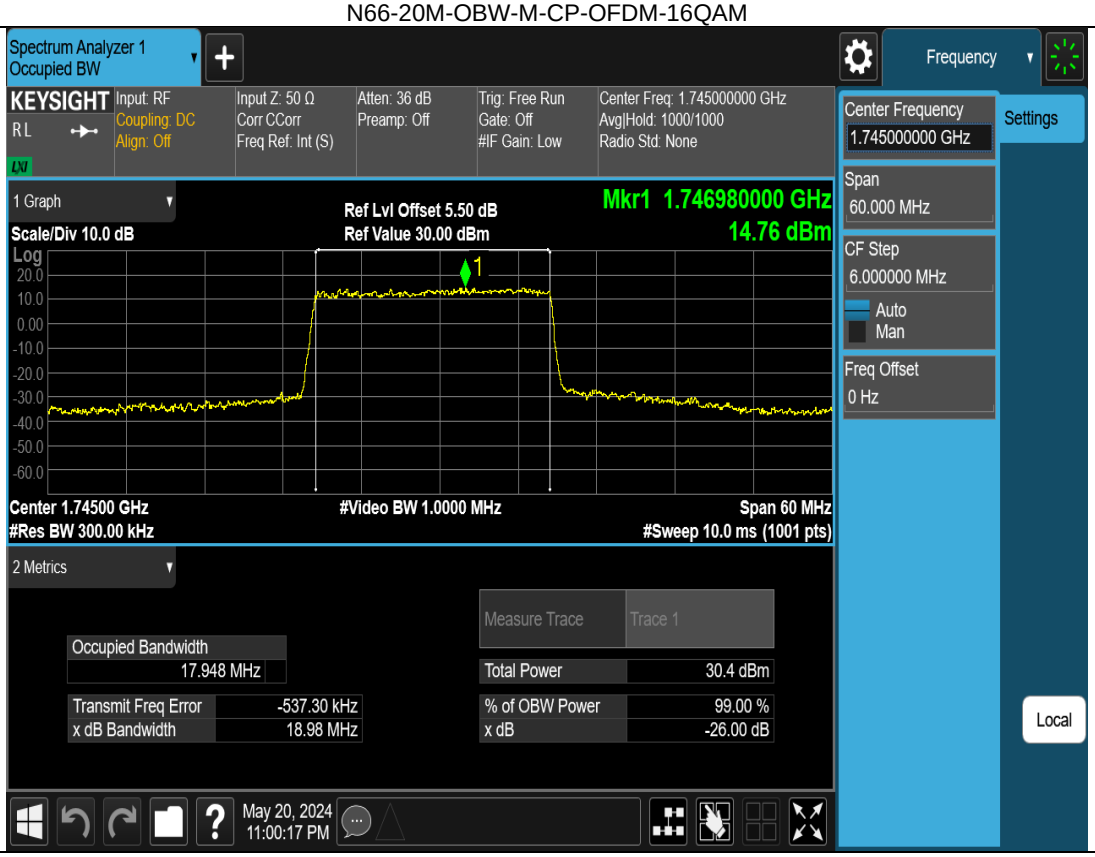

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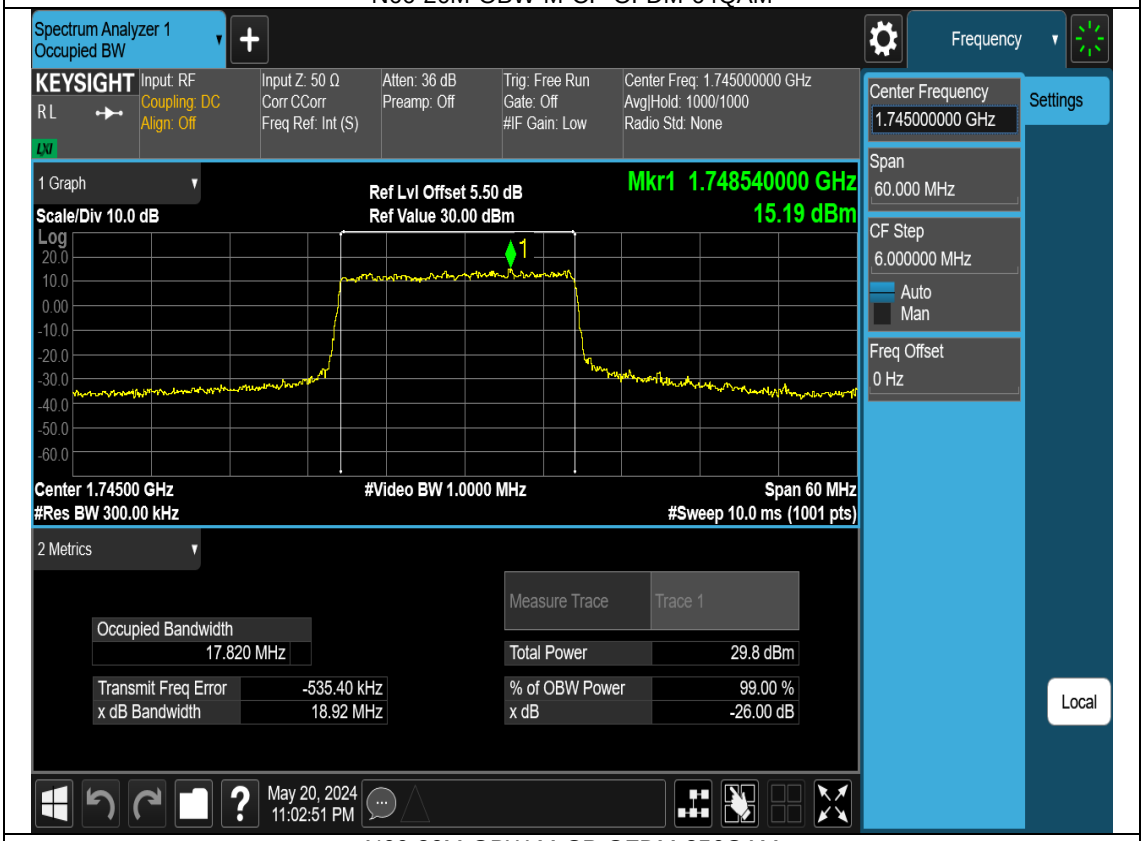

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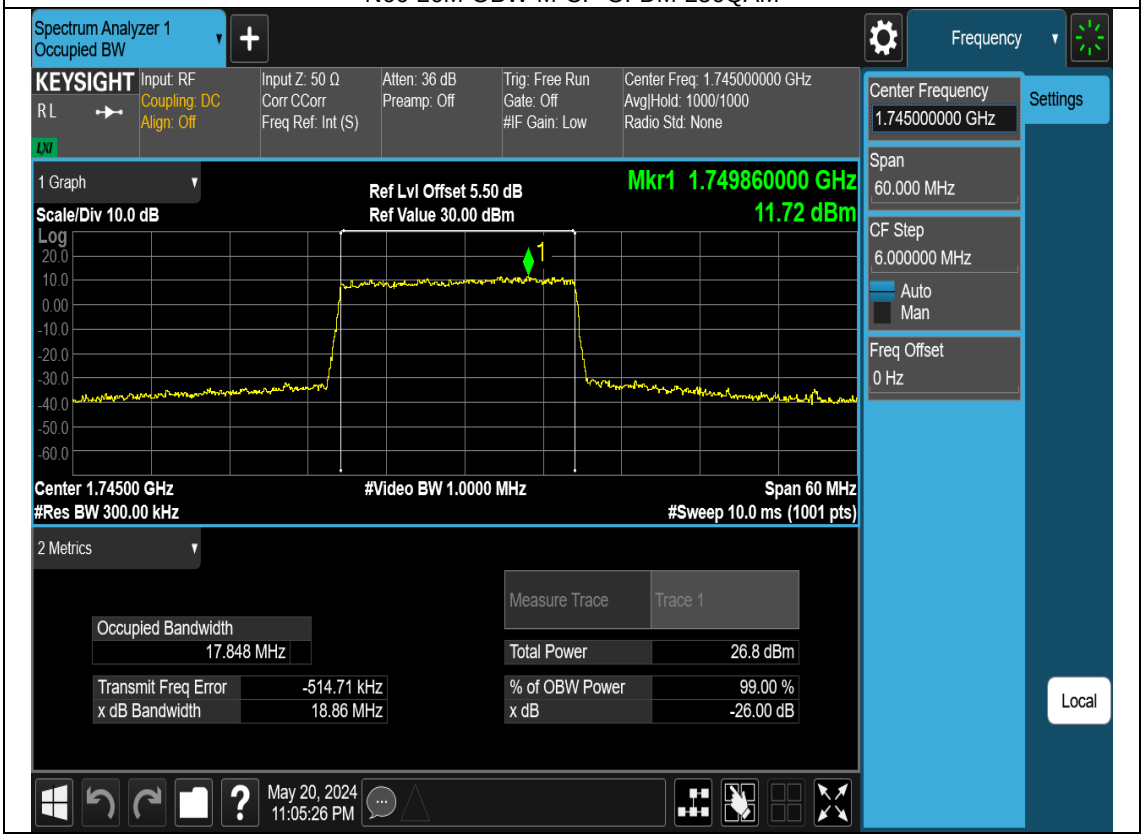
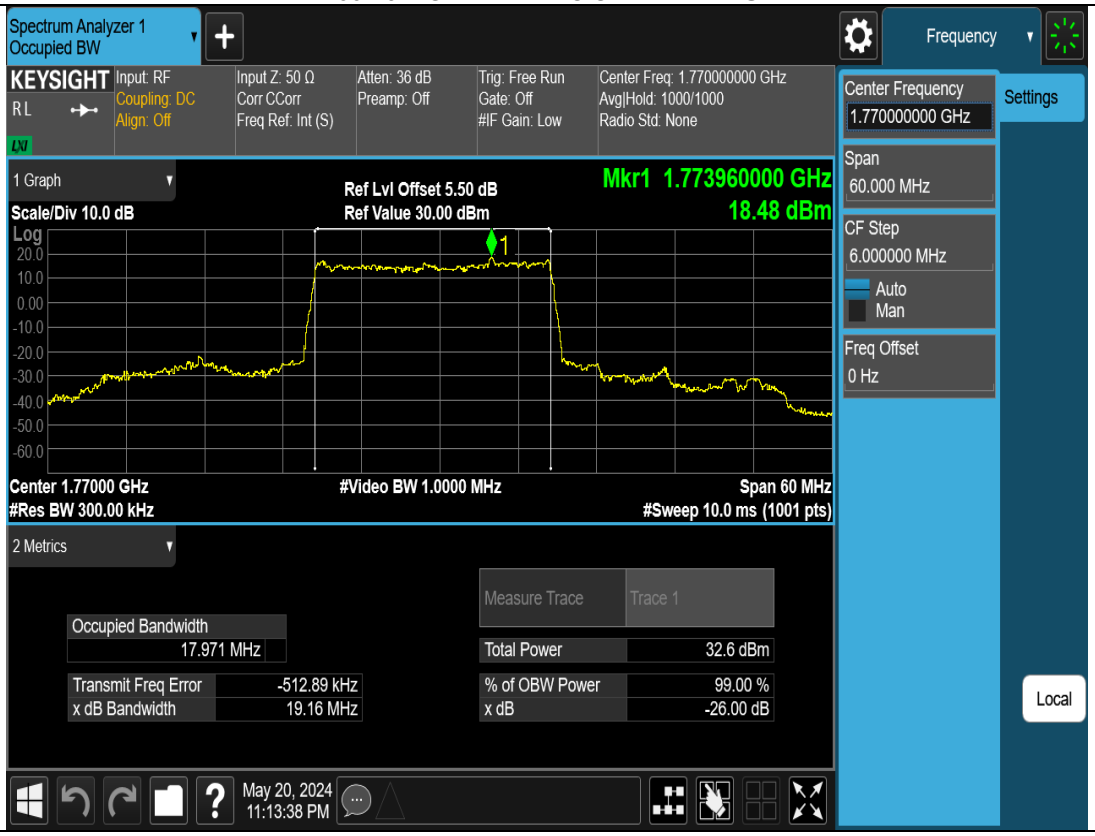
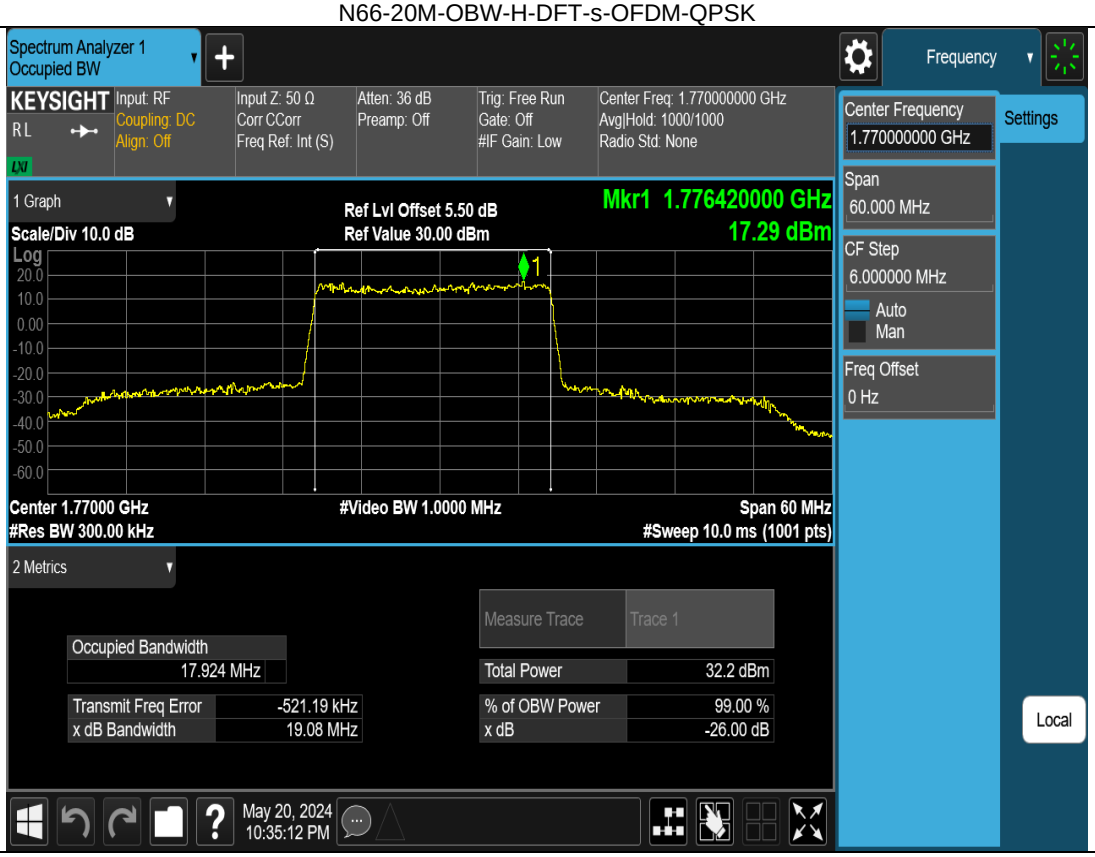


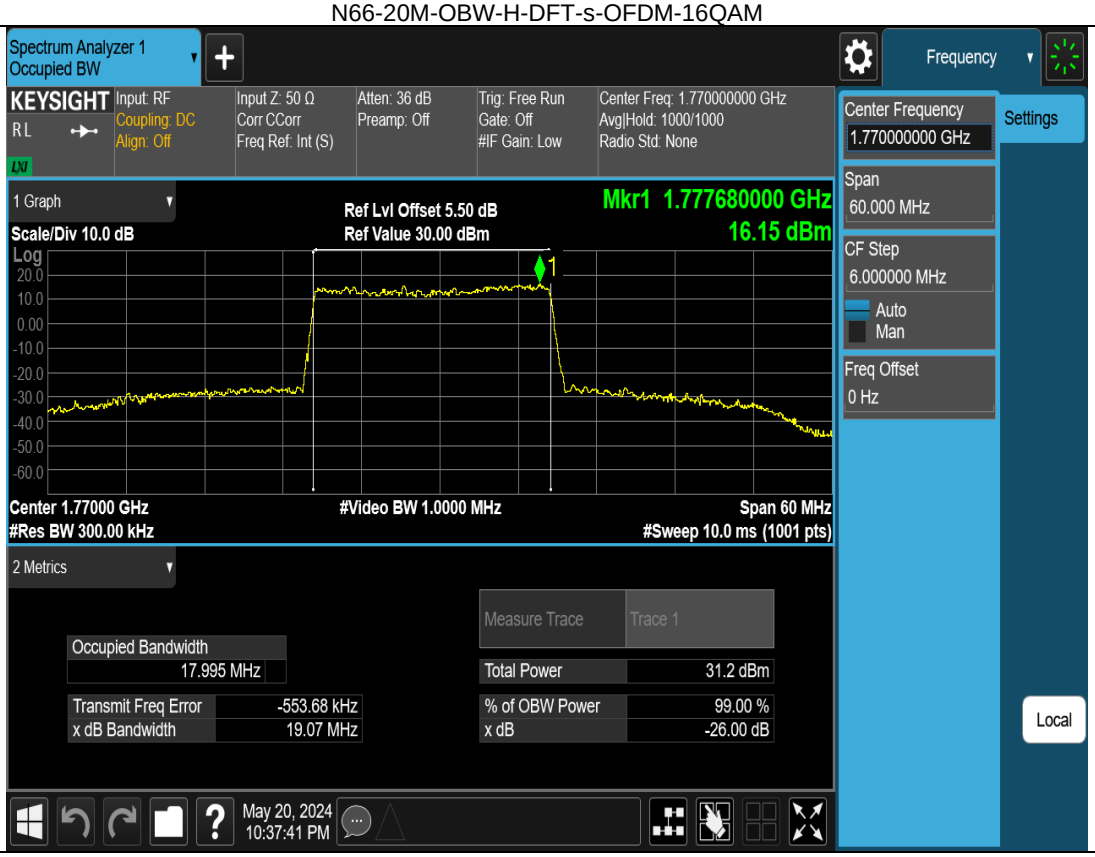
N66-20M-OBW-H-DFT-s-OFDM-Pi2 BPSK



N66-20M-OBW-H-DFT-s-OFDM-QPSK



N66-20M-OBW-H-DFT-s-OFDM-16QAM



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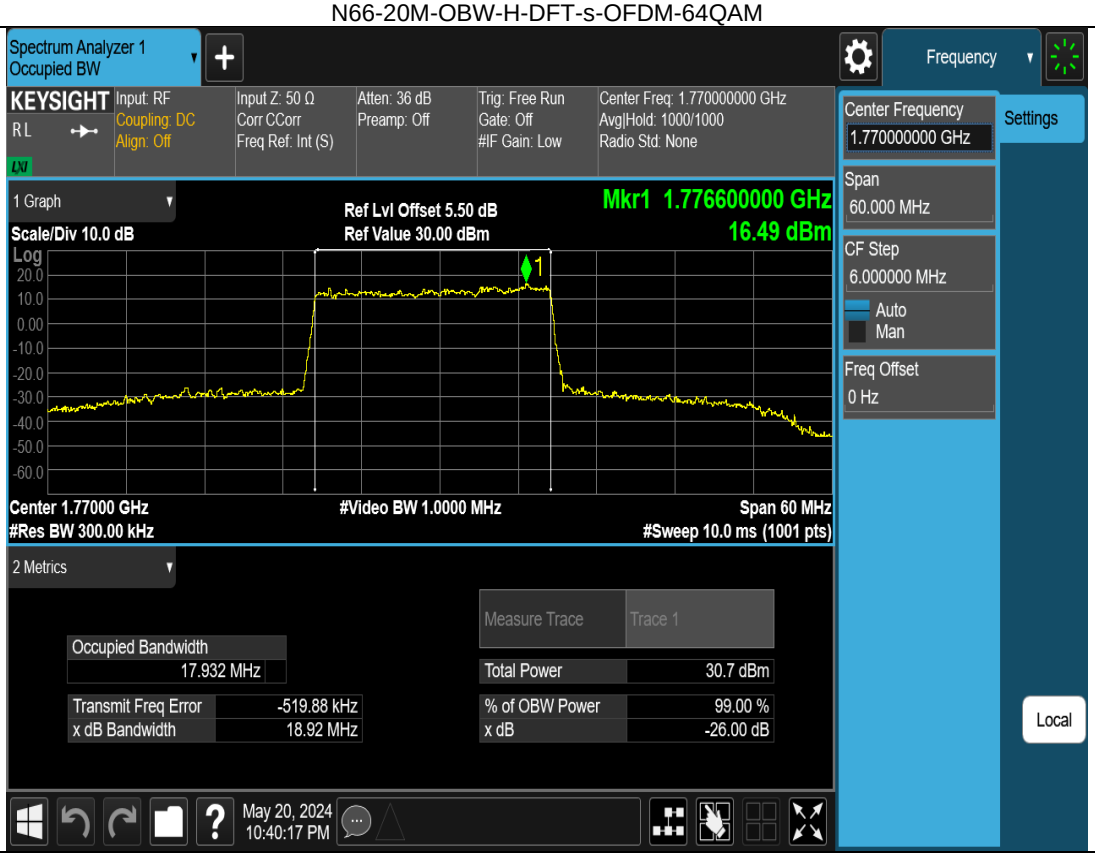
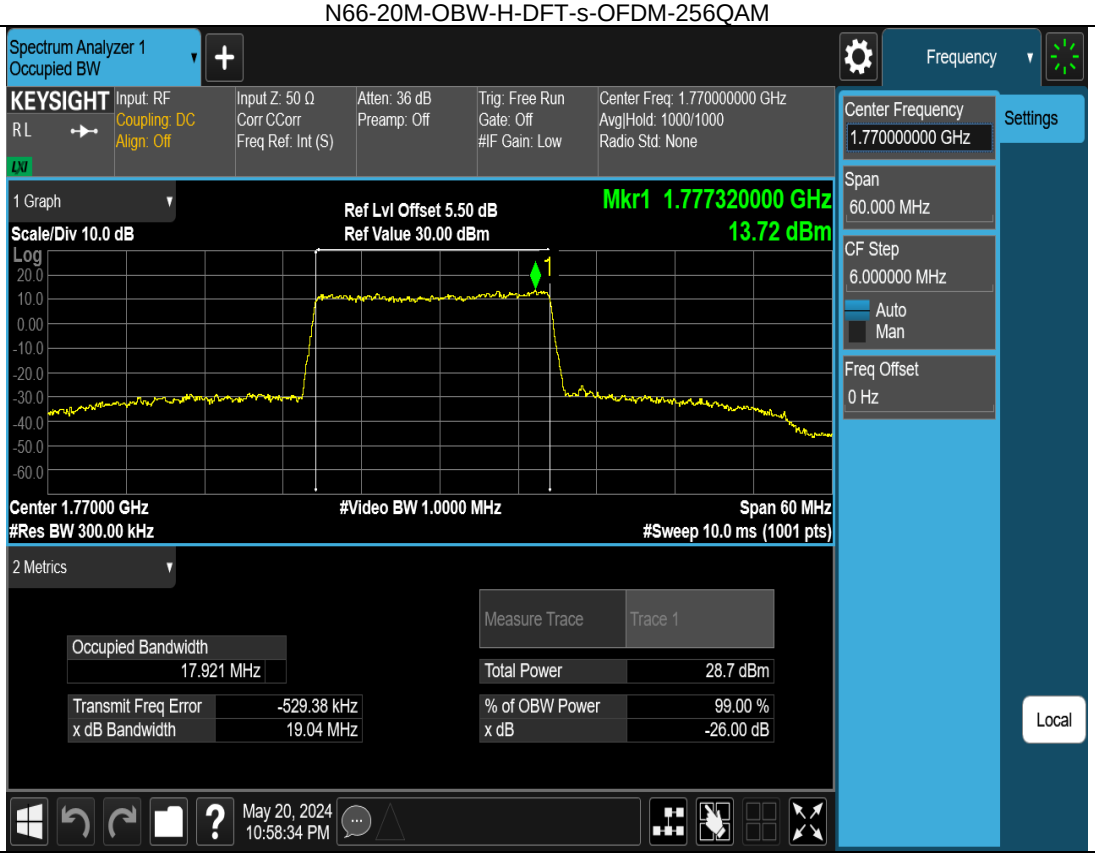


N66-20M-OBW-H-DFT-s-OFDM-256QAM



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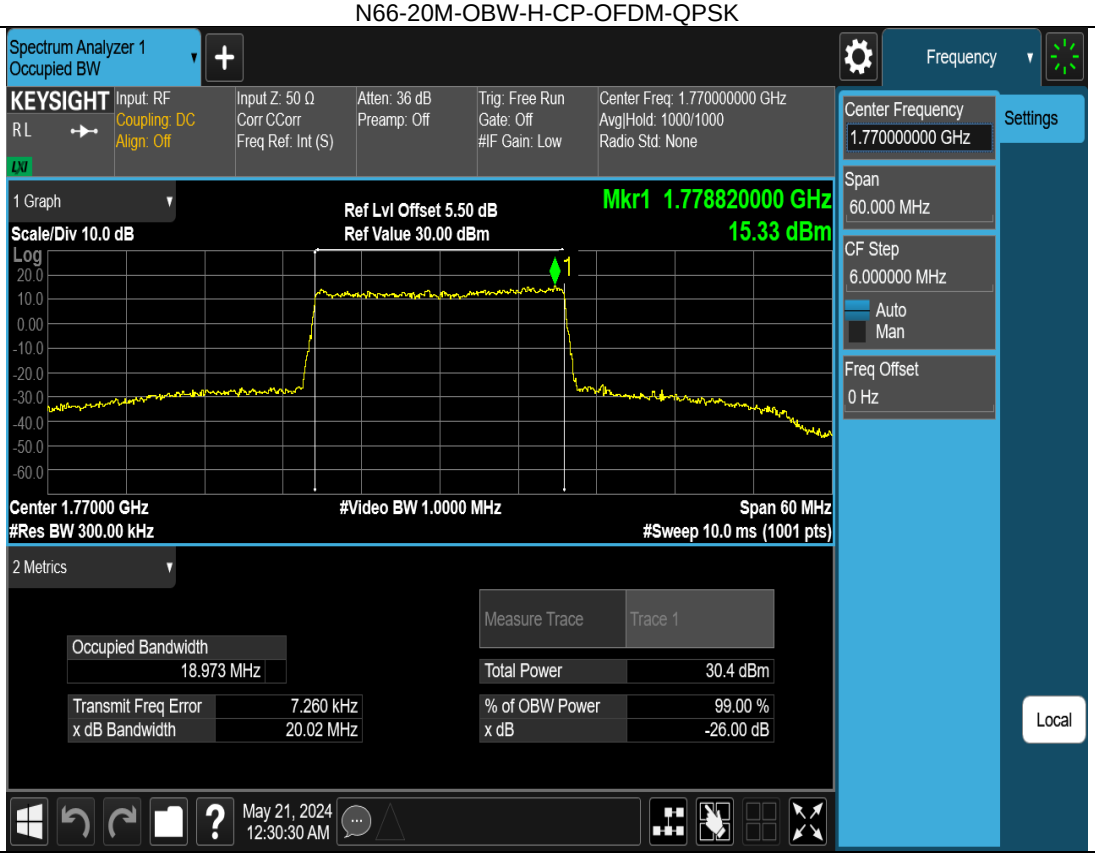
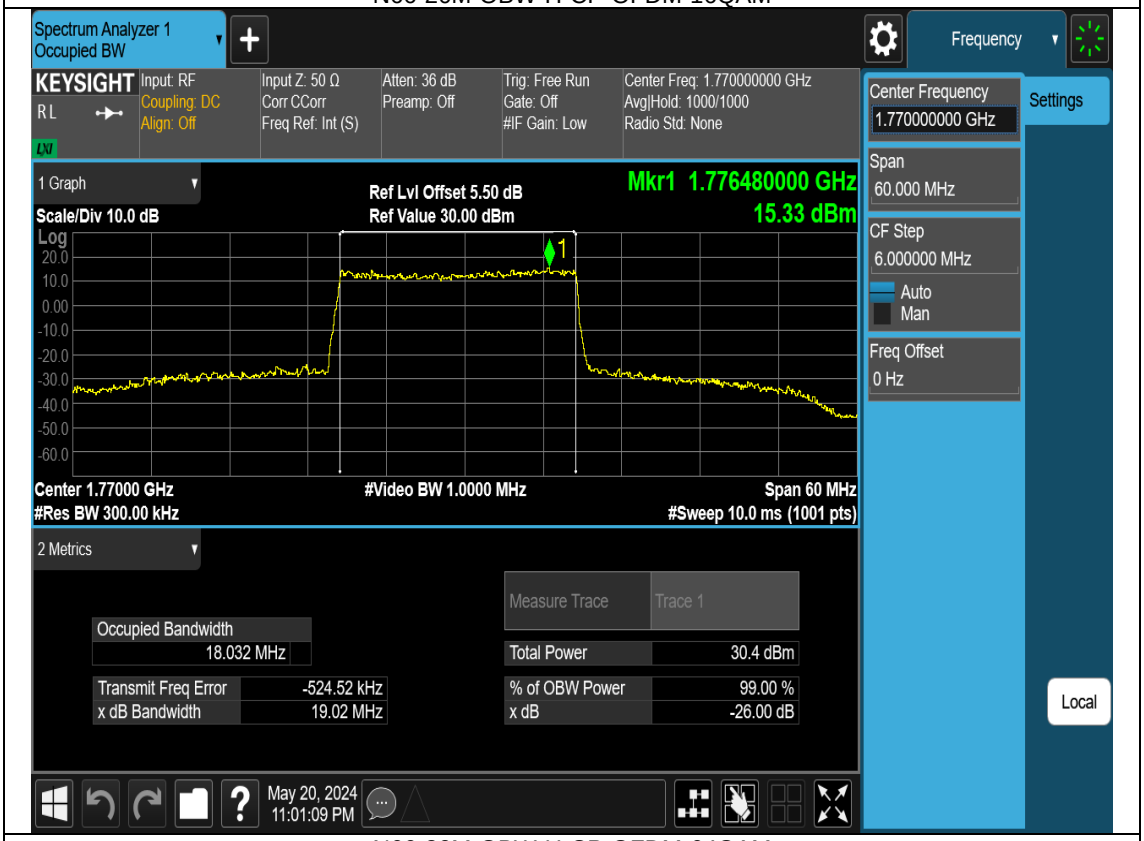


N66-20M-OBW-H-CP-OFDM-16QAM



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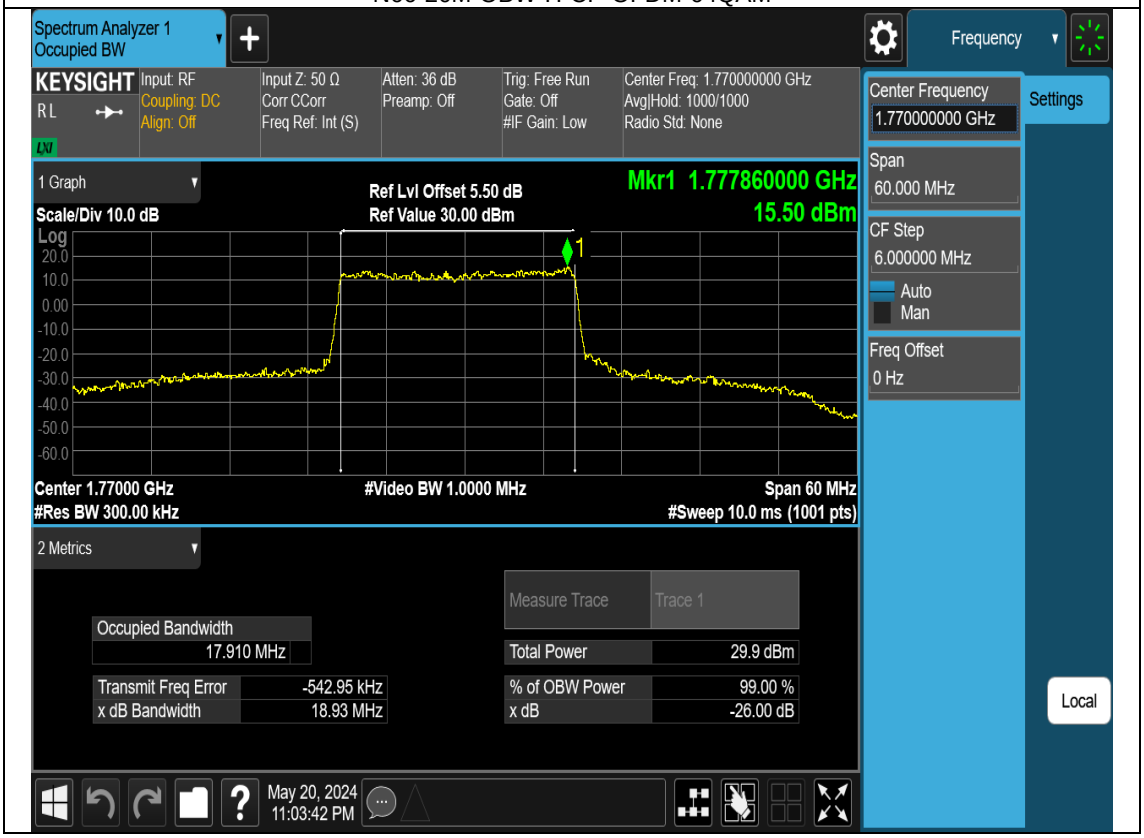
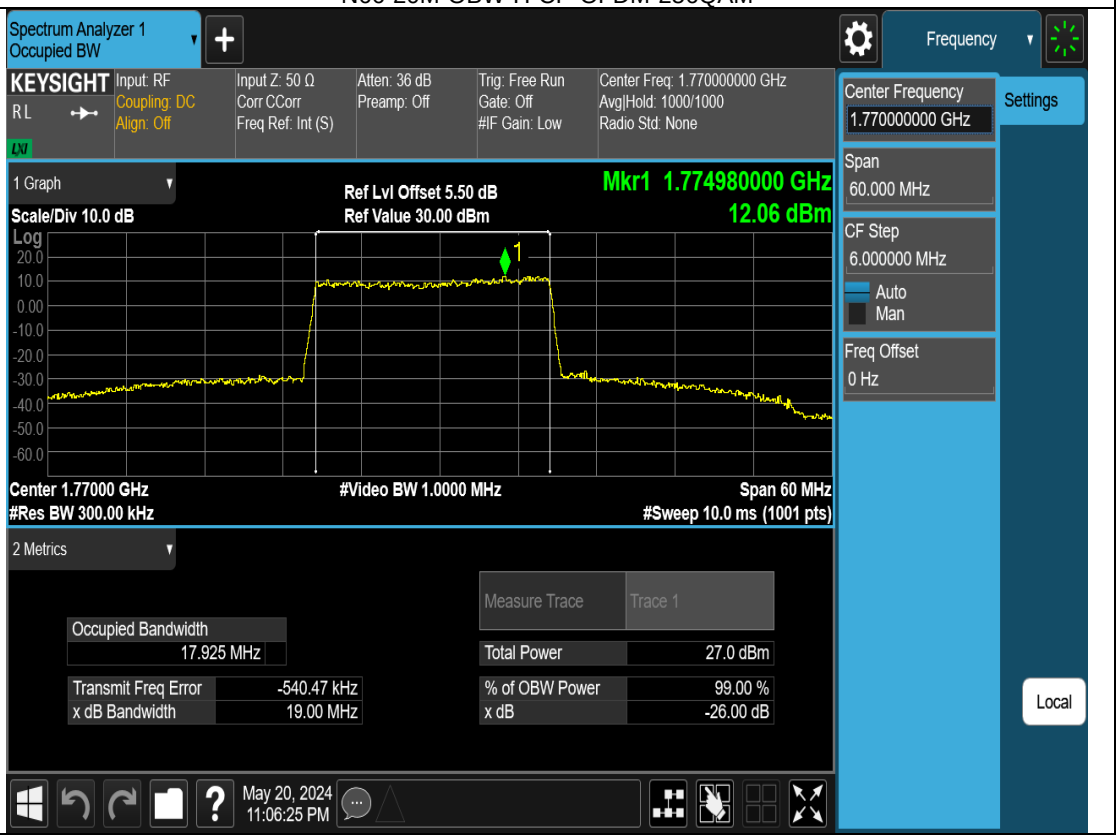


N66-20M-OBW-H-CP-OFDM-256QAM



Peak-Average Ratio

Test Result

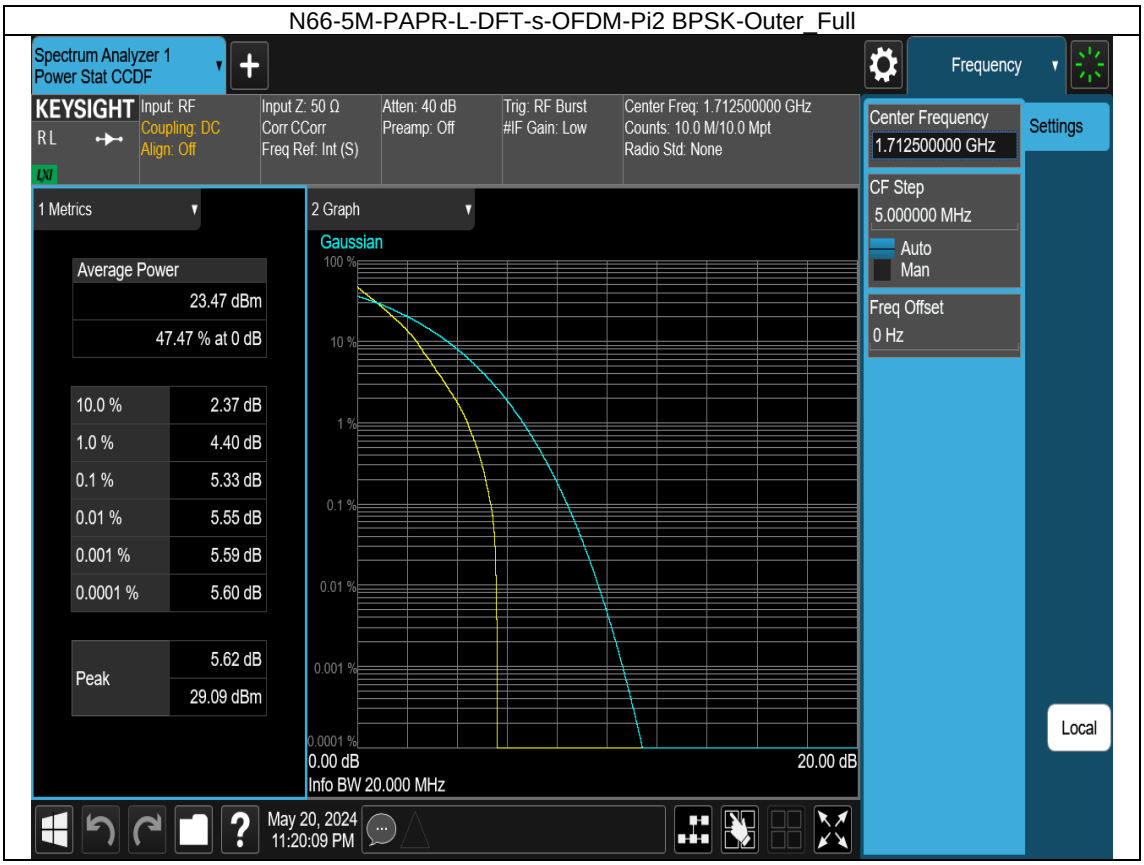
5G NR n66 SCS=15kHz 5MHz					
Modulation	CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK	Low CH	Outer_Full	5.33	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	5.42	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	6.45	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	6.43	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	6.80	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.41	<=13	Pass
CP-OFDM 16QAM		Outer_Full	7.62	<=13	Pass
CP-OFDM 64QAM		Outer_Full	7.35	<=13	Pass
CP-OFDM 256QAM		Outer_Full	8.32	<=13	Pass
DFT-s-OFDM PI/2 BPSK	Middle CH	Outer_Full	5.38	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	5.38	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	6.44	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	6.53	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	6.82	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.38	<=13	Pass
CP-OFDM 16QAM		Outer_Full	7.56	<=13	Pass
CP-OFDM 64QAM		Outer_Full	7.29	<=13	Pass
CP-OFDM 256QAM		Outer_Full	8.41	<=13	Pass
DFT-s-OFDM PI/2 BPSK	High CH	Outer_Full	5.07	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	5.20	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	6.18	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	6.28	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	6.64	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.18	<=13	Pass
CP-OFDM 16QAM		Outer_Full	7.38	<=13	Pass
CP-OFDM 64QAM		Outer_Full	7.11	<=13	Pass
CP-OFDM 256QAM		Outer_Full	8.11	<=13	Pass

5G NR n66 SCS=15kHz 10MHz					
Modulation	CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK	Low CH	Outer_Full	4.20	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	5.55	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	6.31	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	6.64	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	6.73	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.54	<=13	Pass
CP-OFDM 16QAM		Outer_Full	6.91	<=13	Pass
CP-OFDM 64QAM		Outer_Full	7.45	<=13	Pass
CP-OFDM 256QAM		Outer_Full	8.33	<=13	Pass
DFT-s-OFDM PI/2 BPSK	Middle CH	Outer_Full	4.13	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	5.52	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	6.31	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	6.67	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	6.74	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.43	<=13	Pass
CP-OFDM 16QAM		Outer_Full	7.64	<=13	Pass
CP-OFDM 64QAM		Outer_Full	7.41	<=13	Pass
CP-OFDM 256QAM		Outer_Full	8.45	<=13	Pass
DFT-s-OFDM PI/2 BPSK	High CH	Outer_Full	4.26	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	5.43	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	6.18	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	6.29	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	6.64	<=13	Pass
CP-OFDM QPSK		Outer_Full	6.98	<=13	Pass
CP-OFDM 16QAM		Outer_Full	7.16	<=13	Pass
CP-OFDM 64QAM		Outer_Full	7.67	<=13	Pass
CP-OFDM 256QAM		Outer_Full	8.52	<=13	Pass

5G NR n66 SCS=15kHz 15MHz					
Modulation	CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK	Low CH	Outer_Full	5.39	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	5.46	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	6.29	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	6.59	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	6.72	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.60	<=13	Pass
CP-OFDM 16QAM		Outer_Full	7.74	<=13	Pass
CP-OFDM 64QAM		Outer_Full	7.40	<=13	Pass
CP-OFDM 256QAM		Outer_Full	8.45	<=13	Pass
DFT-s-OFDM PI/2 BPSK	Middle CH	Outer_Full	5.37	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	5.42	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	6.29	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	6.63	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	6.70	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.53	<=13	Pass
CP-OFDM 16QAM		Outer_Full	7.67	<=13	Pass
CP-OFDM 64QAM		Outer_Full	7.36	<=13	Pass
CP-OFDM 256QAM		Outer_Full	8.46	<=13	Pass
DFT-s-OFDM PI/2 BPSK	High CH	Outer_Full	5.36	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	5.46	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	6.30	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	6.61	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	6.66	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.45	<=13	Pass
CP-OFDM 16QAM		Outer_Full	7.60	<=13	Pass
CP-OFDM 64QAM		Outer_Full	7.45	<=13	Pass
CP-OFDM 256QAM		Outer_Full	8.46	<=13	Pass

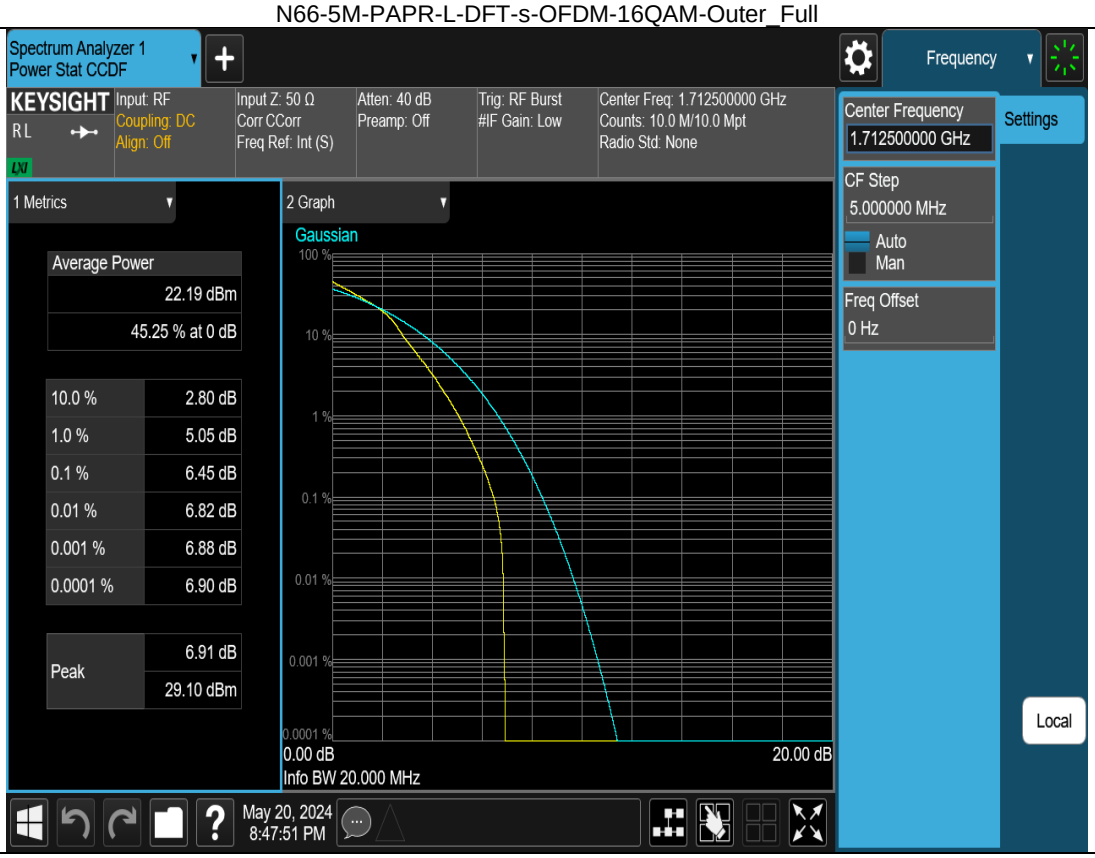
5G NR n66 SCS=15kHz 20MHz					
Modulation	CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK	Low CH	Outer_Full	4.41	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	5.38	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	6.23	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	6.46	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	6.69	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.21	<=13	Pass
CP-OFDM 16QAM		Outer_Full	7.30	<=13	Pass
CP-OFDM 64QAM		Outer_Full	7.87	<=13	Pass
CP-OFDM 256QAM		Outer_Full	8.46	<=13	Pass
DFT-s-OFDM PI/2 BPSK	Middle CH	Outer_Full	4.13	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	5.43	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	6.25	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	6.43	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	6.60	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.34	<=13	Pass
CP-OFDM 16QAM		Outer_Full	7.42	<=13	Pass
CP-OFDM 64QAM		Outer_Full	7.98	<=13	Pass
CP-OFDM 256QAM		Outer_Full	8.56	<=13	Pass
DFT-s-OFDM PI/2 BPSK	High CH	Outer_Full	4.73	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	5.59	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	6.32	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	6.50	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	6.68	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.41	<=13	Pass
CP-OFDM 16QAM		Outer_Full	7.34	<=13	Pass
CP-OFDM 64QAM		Outer_Full	7.83	<=13	Pass
CP-OFDM 256QAM		Outer_Full	8.57	<=13	Pass

Test Graph


N66-5M-PAPR-L-DFT-s-OFDM-Pi2 BPSK-Outer_Full
Spectrum Analyzer 1
Power Stat CCDF
Frequency
KEYSIGHT
Input: RF
Coupling: DC
Align: Off
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
Atten: 40 dB
Preamp: Off
Trig: RF Burst
#IF Gain: Low
Center Freq: 1.712500000 GHz
Counts: 10.0 M/10.0 Mpt
Radio Std: None
Center Frequency
1.712500000 GHz
Settings
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
1 Metrics
2 Graph
Gaussian
Average Power
23.47 dBm
47.47 % at 0 dB
10.0 % 2.37 dB
1.0 % 4.40 dB
0.1 % 5.33 dB
0.01 % 5.55 dB
0.001 % 5.59 dB
0.0001 % 5.60 dB
Peak
5.62 dB
29.09 dBm
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0.00 dB
20.00 dB
Info BW 20.000 MHz
May 20, 2024
11:20:09 PM
Local

N66-5M-PAPR-L-DFT-s-OFDM-QPSK-Outer_Full

N66-5M-PAPR-L-DFT-s-OFDM-16QAM-Outer_Full

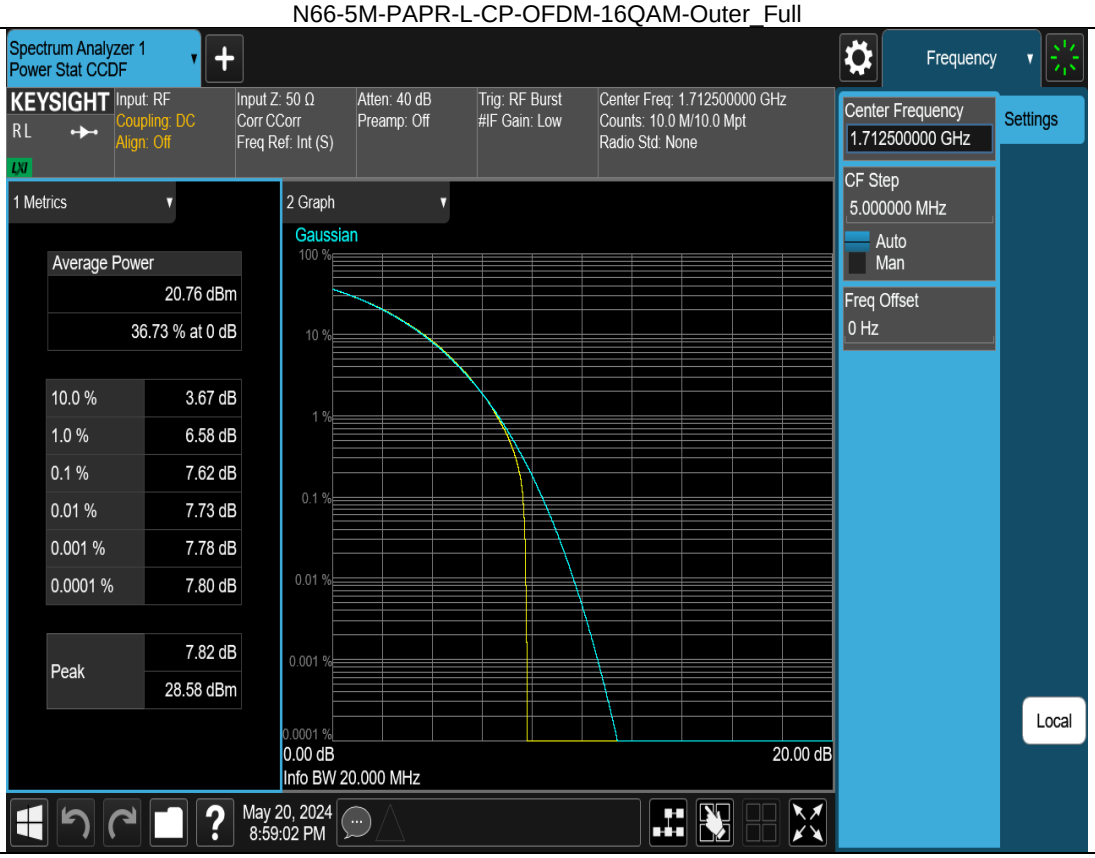


N66-5M-PAPR-L-DFT-s-OFDM-64QAM-Outer_Full

N66-5M-PAPR-L-DFT-s-OFDM-256QAM-Outer_Full

N66-5M-PAPR-L-CP-OFDM-QPSK-Outer_Full

N66-5M-PAPR-L-CP-OFDM-16QAM-Outer_Full

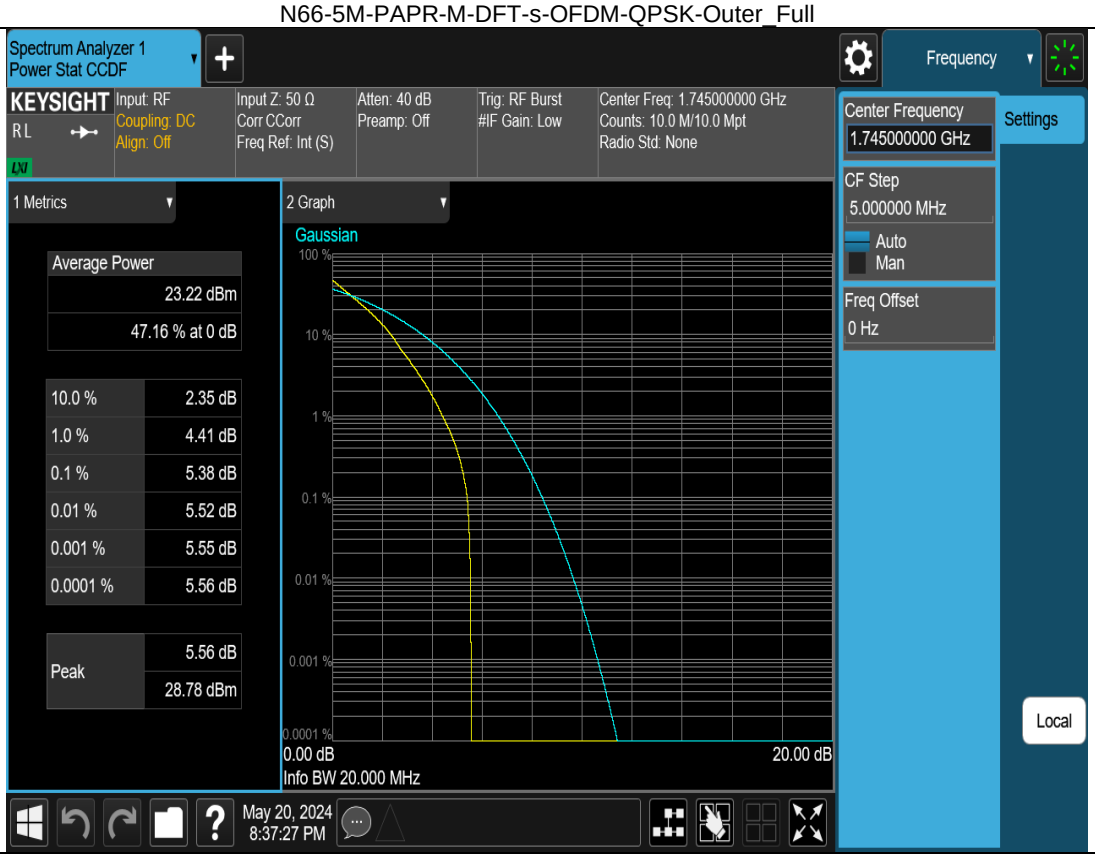


N66-5M-PAPR-L-CP-OFDM-64QAM-Outer_Full

N66-5M-PAPR-L-CP-OFDM-256QAM-Outer_Full

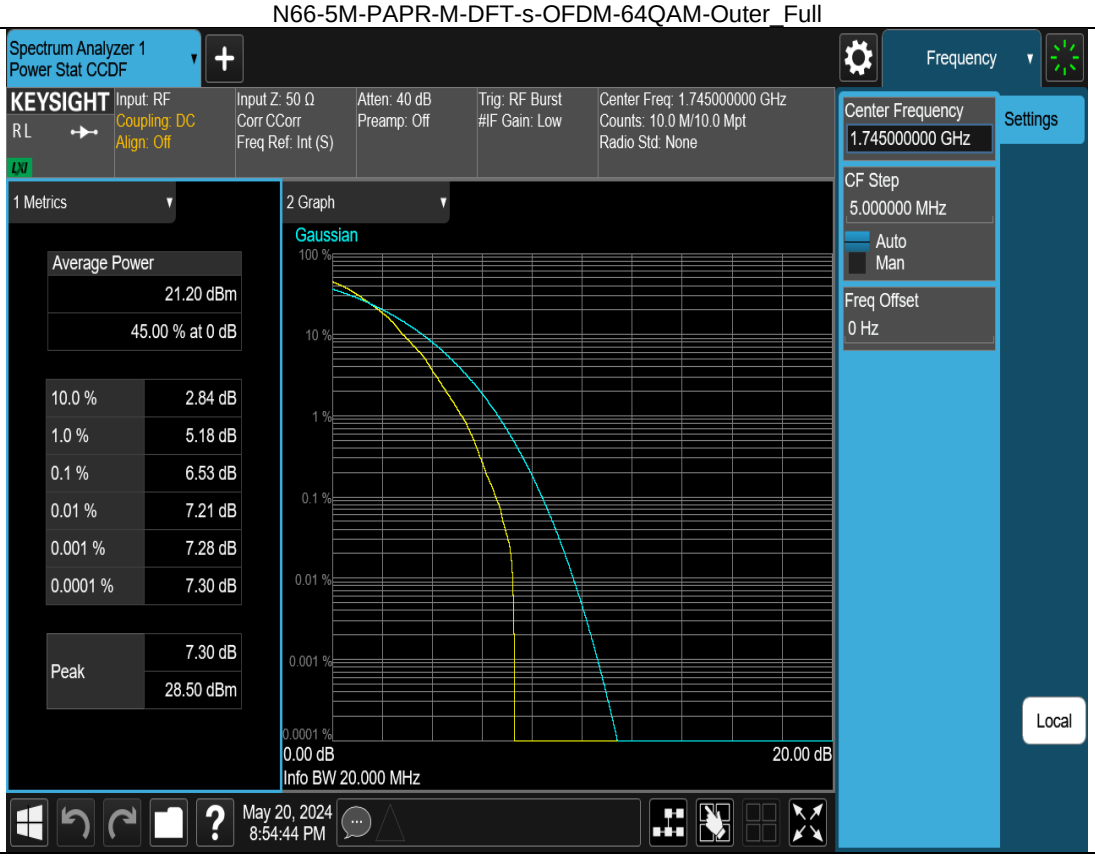
N66-5M-PAPR-M-DFT-s-OFDM-Pi2 BPSK-Outer_Full

N66-5M-PAPR-M-DFT-s-OFDM-QPSK-Outer_Full



N66-5M-PAPR-M-DFT-s-OFDM-16QAM-Outer_Full

N66-5M-PAPR-M-DFT-s-OFDM-64QAM-Outer_Full



N66-5M-PAPR-M-DFT-s-OFDM-256QAM-Outer_Full

N66-5M-PAPR-M-CP-OFDM-QPSK-Outer_Full

N66-5M-PAPR-M-CP-OFDM-16QAM-Outer_Full

N66-5M-PAPR-M-CP-OFDM-64QAM-Outer_Full

N66-5M-PAPR-M-CP-OFDM-256QAM-Outer_Full

N66-5M-PAPR-H-DFT-s-OFDM-Pi2 BPSK-Outer_Full

N66-5M-PAPR-H-DFT-s-OFDM-QPSK-Outer_Full

N66-5M-PAPR-H-DFT-s-OFDM-16QAM-Outer_Full