

99% & 26dB Bandwidth

Test Result

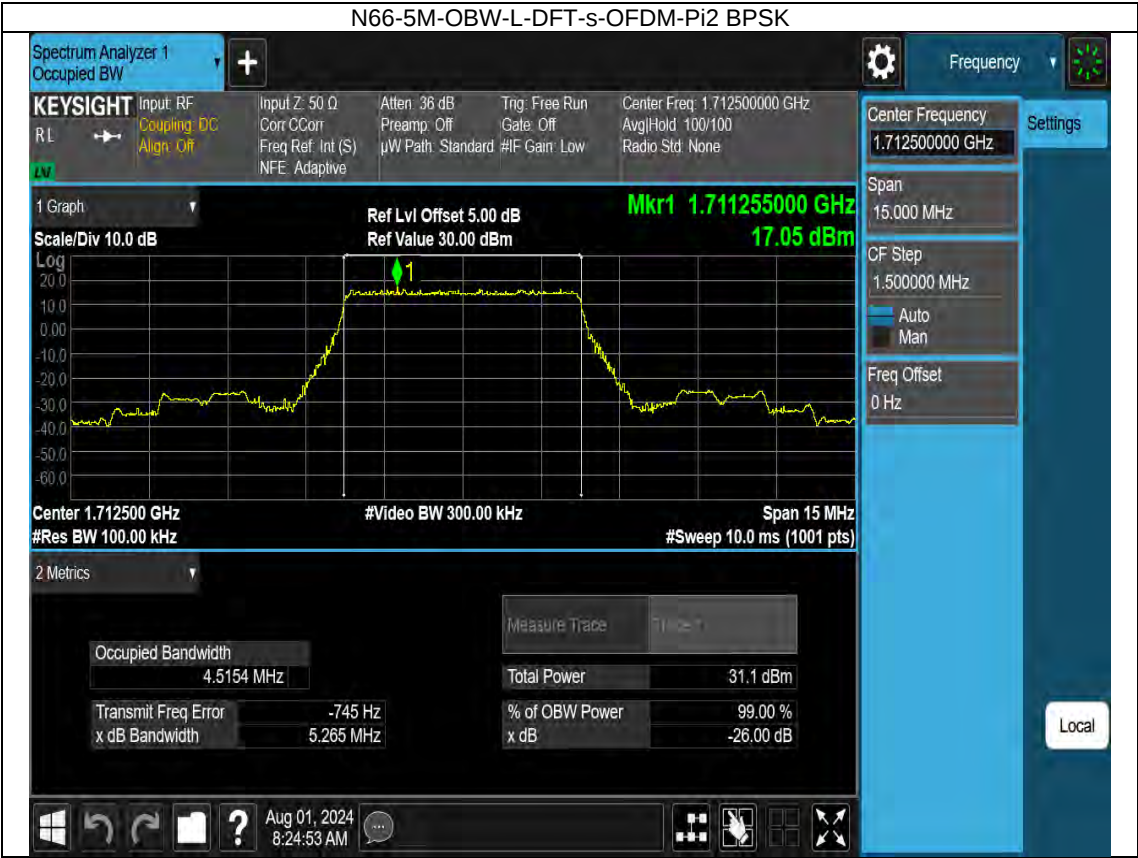
5G NR N66 SCS=15kHz 5MHz						
Modulation	CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	Low	Outer_Full	4.52	5.27	/	Pass
CP-OFDM QPSK		Outer_Full	4.5	5.26	/	Pass
DFT-s-OFDM PI/2 BPSK	Mid	Outer_Full	4.51	5.12	/	Pass
CP-OFDM QPSK		Outer_Full	4.51	5.3	/	Pass
DFT-s-OFDM PI/2 BPSK	High	Outer_Full	4.52	5.17	/	Pass
CP-OFDM QPSK		Outer_Full	4.52	5.31	/	Pass

5G NR N66 SCS=15kHz 10MHz						
Modulation	CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	Low	Outer_Full	8.95	9.74	/	Pass
CP-OFDM QPSK		Outer_Full	9.33	10.15	/	Pass
DFT-s-OFDM PI/2 BPSK	Mid	Outer_Full	8.96	9.59	/	Pass
CP-OFDM QPSK		Outer_Full	9.31	10.1	/	Pass
DFT-s-OFDM PI/2 BPSK	High	Outer_Full	8.95	9.73	/	Pass
CP-OFDM QPSK		Outer_Full	9.32	10.16	/	Pass

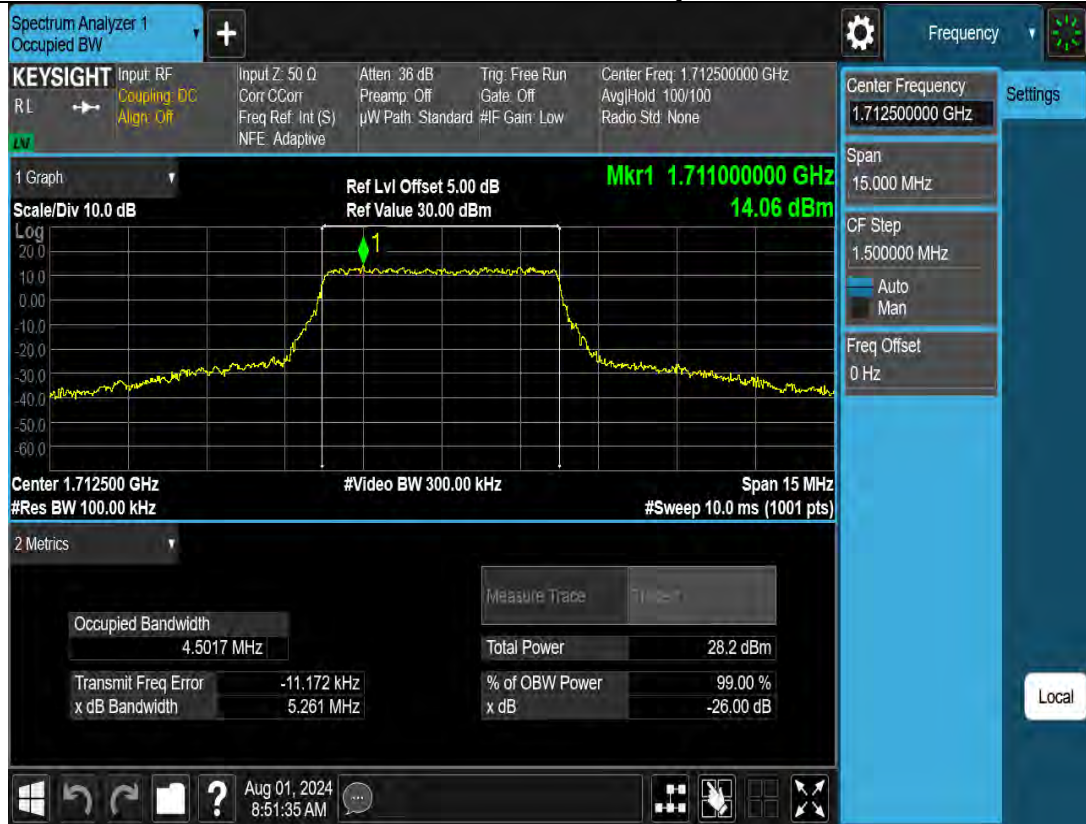
5G NR N66 SCS=15kHz 15MHz						
Modulation	CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	Low	Outer_Full	13.49	14.51	/	Pass
CP-OFDM QPSK		Outer_Full	14.15	15.2	/	Pass
DFT-s-OFDM PI/2 BPSK	Mid	Outer_Full	13.5	14.57	/	Pass
CP-OFDM QPSK		Outer_Full	14.13	15.24	/	Pass
DFT-s-OFDM PI/2 BPSK	High	Outer_Full	13.48	14.53	/	Pass
CP-OFDM QPSK		Outer_Full	14.12	15.15	/	Pass

5G NR N66 SCS=15kHz 20MHz						
Modulation	CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	Low	Outer_Full	17.92	19.03	/	Pass
CP-OFDM QPSK		Outer_Full	18.95	20.06	/	Pass
DFT-s-OFDM PI/2 BPSK	Mid	Outer_Full	17.89	19.05	/	Pass
CP-OFDM QPSK		Outer_Full	18.94	20	/	Pass
DFT-s-OFDM PI/2 BPSK	High	Outer_Full	17.85	19	/	Pass
CP-OFDM QPSK		Outer_Full	18.91	20.02	/	Pass

Test Graph



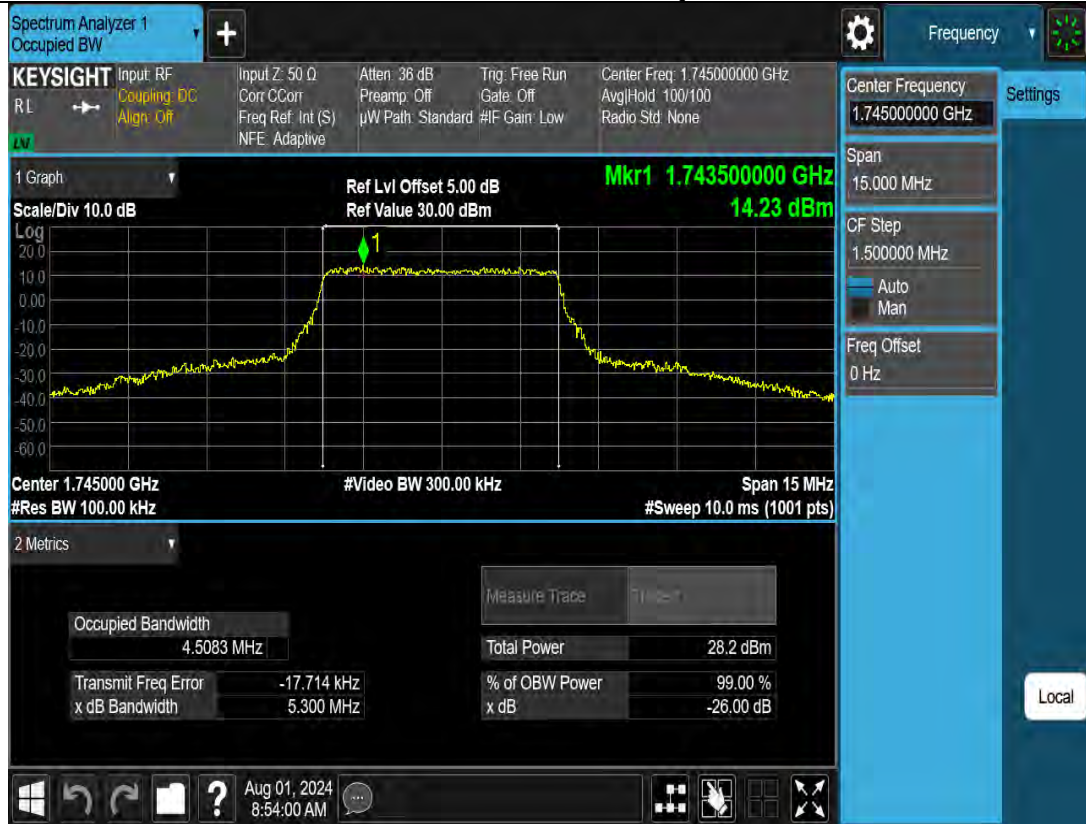
N66-5M-OBW-L-CP-OFDM-QPSK



N66-5M-OBW-M-DFT-s-OFDM-Pi2 BPSK



N66-5M-OBW-M-CP-OFDM-QPSK



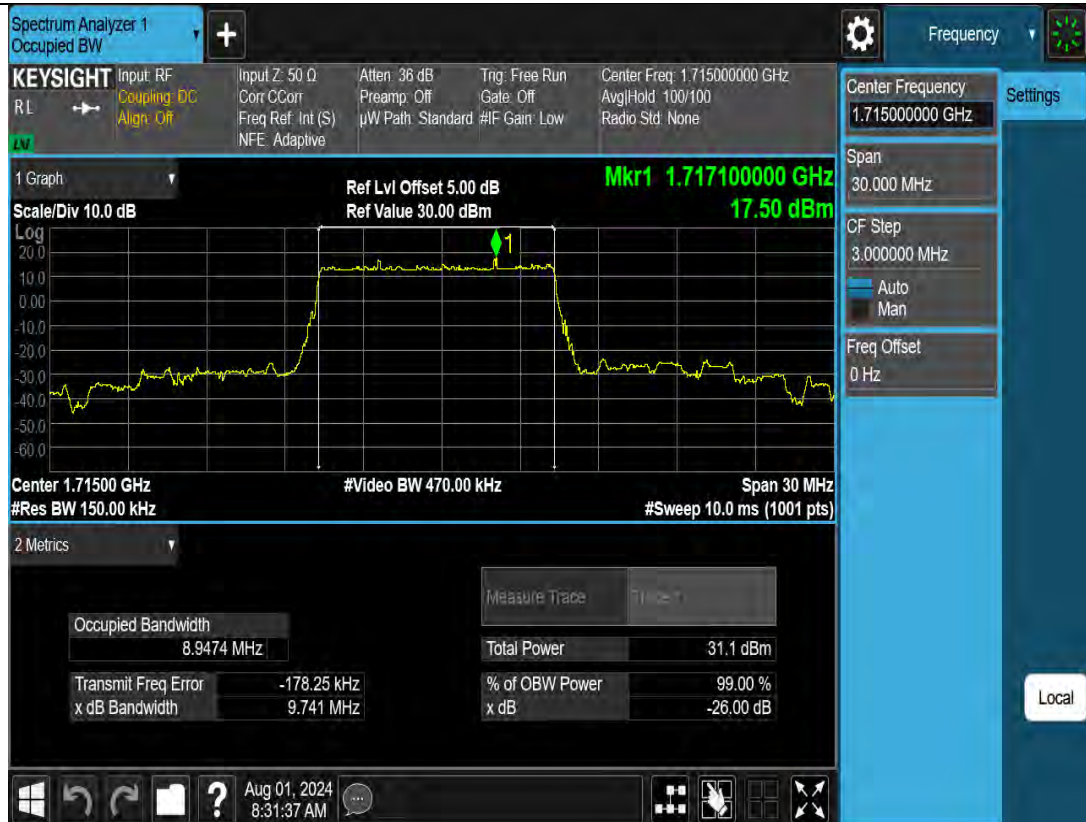
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N66-5M-OBW-H-CP-OFDM-QPSK



N66-10M-OBW-L-DFT-s-OFDM-Pi2 BPSK



N66-10M-OBW-L-CP-OFDM-QPSK



N66-10M-OBW-M-DFT-s-OFDM-Pi2 BPSK



N66-10M-OBW-M-CP-OFDM-QPSK



N66-10M-OBW-H-DFT-s-OFDM-Pi2 BPSK



N66-10M-OBW-H-CP-OFDM-QPSK



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



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



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



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



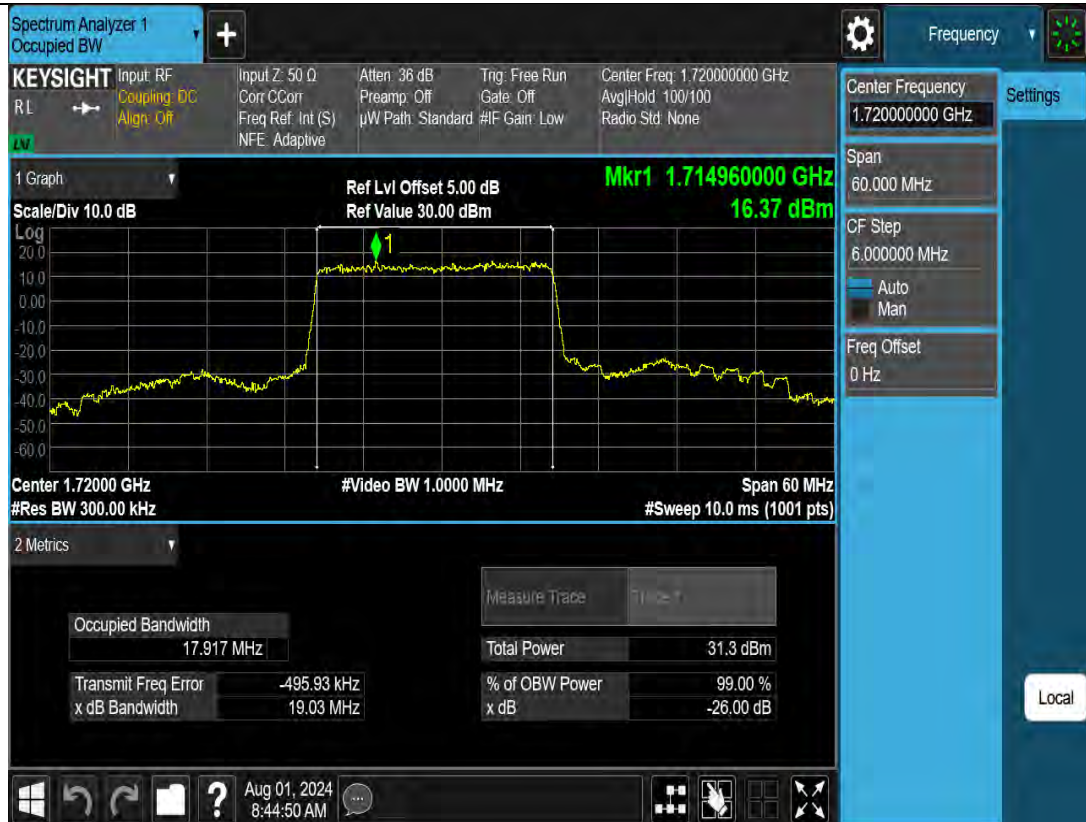
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N66-15M-OBW-H-CP-OFDM-QPSK



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



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



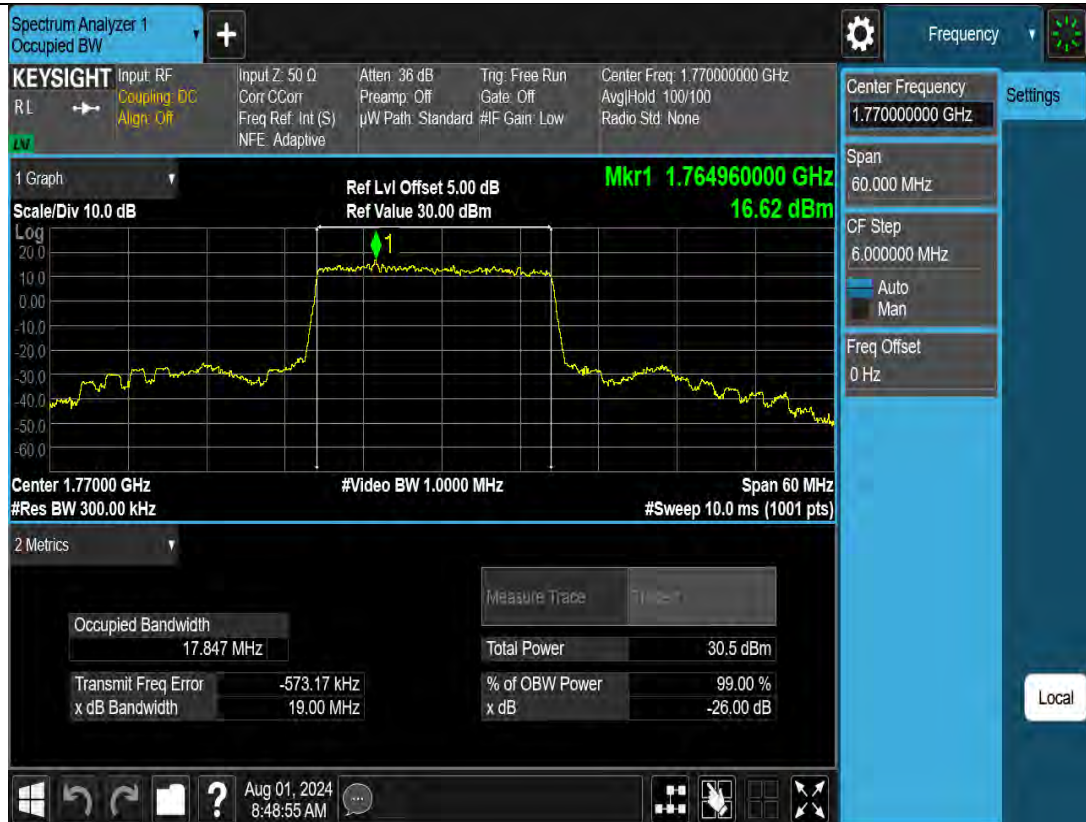
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N66-20M-OBW-M-CP-OFDM-QPSK



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



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



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	Outer_Full	4.67	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.63	<=13	Pass
DFT-s-OFDM PI/2 BPSK	Middle	Outer_Full	4.44	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.57	<=13	Pass
DFT-s-OFDM PI/2 BPSK	High	Outer_Full	4.8	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.13	<=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	Outer_Full	4.82	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.63	<=13	Pass
DFT-s-OFDM PI/2 BPSK	Middle	Outer_Full	4.55	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.99	<=13	Pass
DFT-s-OFDM PI/2 BPSK	High	Outer_Full	5	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.83	<=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	Outer_Full	4.84	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.54	<=13	Pass
DFT-s-OFDM PI/2 BPSK	Middle	Outer_Full	4.72	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.05	<=13	Pass
DFT-s-OFDM PI/2 BPSK	High	Outer_Full	4.86	<=13	Pass
CP-OFDM QPSK		Outer_Full	8.06	<=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	Outer_Full	4.77	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.58	<=13	Pass
DFT-s-OFDM PI/2 BPSK	Middle	Outer_Full	4.28	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.61	<=13	Pass
DFT-s-OFDM PI/2 BPSK	High	Outer_Full	4.36	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.66	<=13	Pass

Test Graph



[illegible]

Spectrum Analyzer 1
Power Stat CCDF

KEYSIGHT Input: RF
R/L Coupling: DC
 Align: Off

Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)

Atten: 40 dB
Preamp: Off
μW Path: Standard

Trig: Free Run
#IF Gain: Low

Center Freq: 1.745000000 GHz
Counts: 10.0 M/10.0 Mpt
Radio Std: None

Center Frequency
1.745000000 GHz

Settings

CF Step
5.000000 MHz

Auto
Man

Freq Offset
0 Hz

1 Metrics

Average Power

23.08 dBm

52.76 % at 0 dB

10.0 % 2.19 dB

1.0 % 3.72 dB

0.1 % 4.44 dB

0.01 % 4.61 dB

0.001 % 4.68 dB

0.0001 % 4.72 dB

Peak 4.82 dB

27.90 dBm

2 Graph

Gaussian

100 %

10 %

1 %

0.1 %

0.01 %

0.001 %

0.0001 %

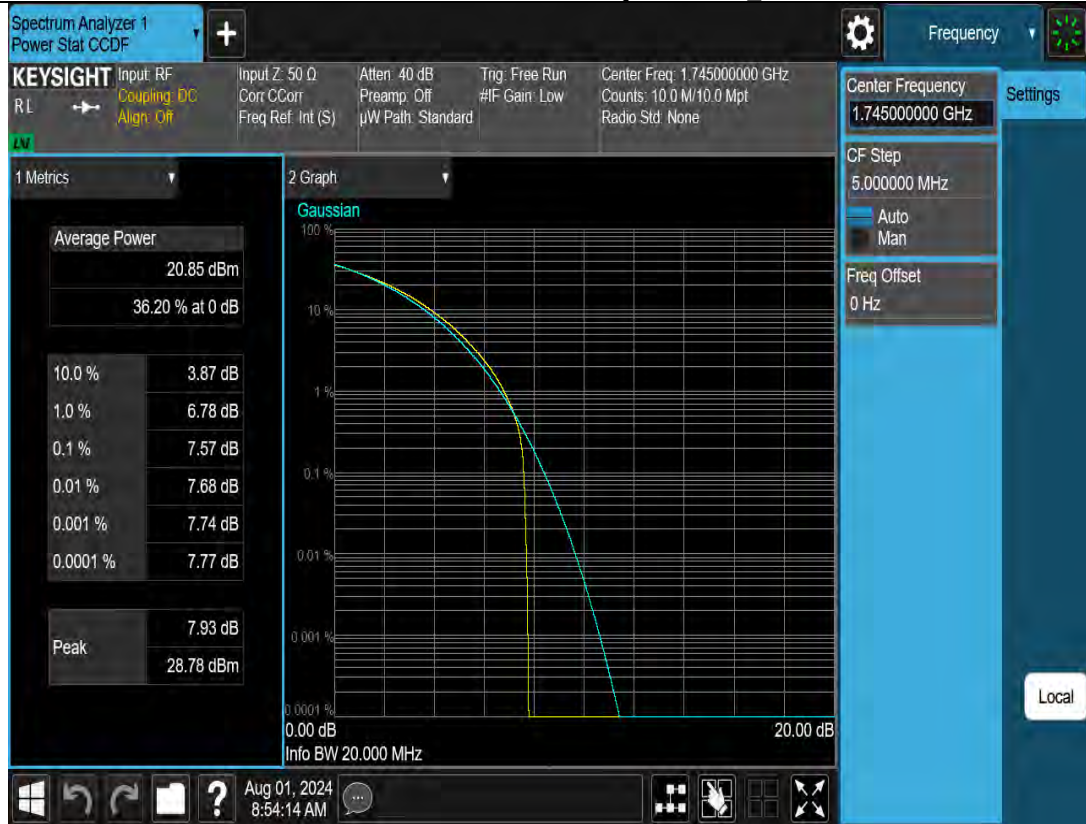
0.00 dB

20.00 dB

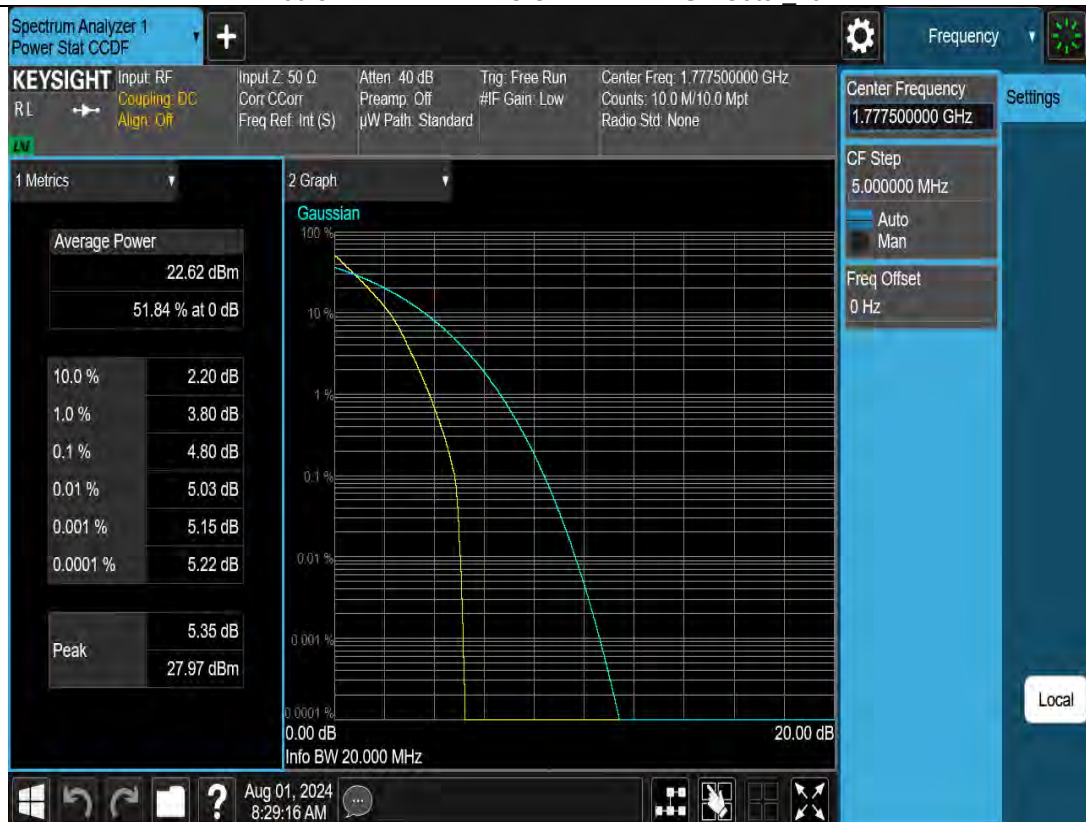
Info BW 20.000 MHz

Local

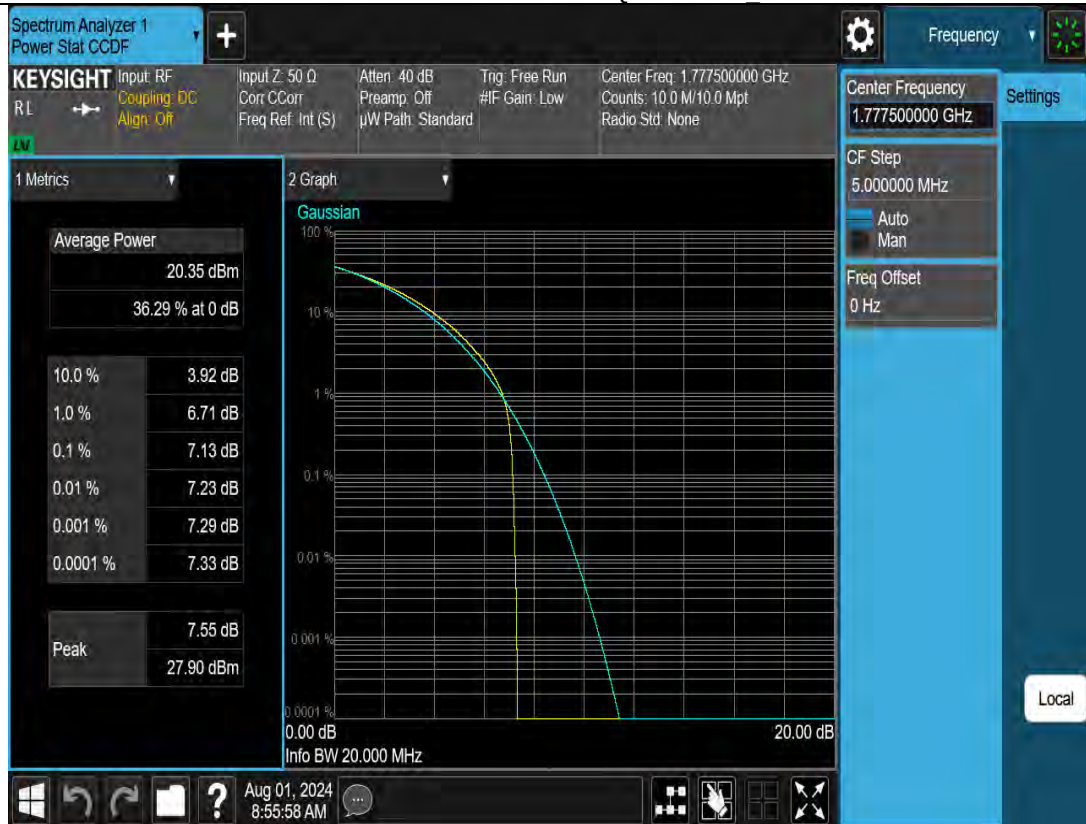
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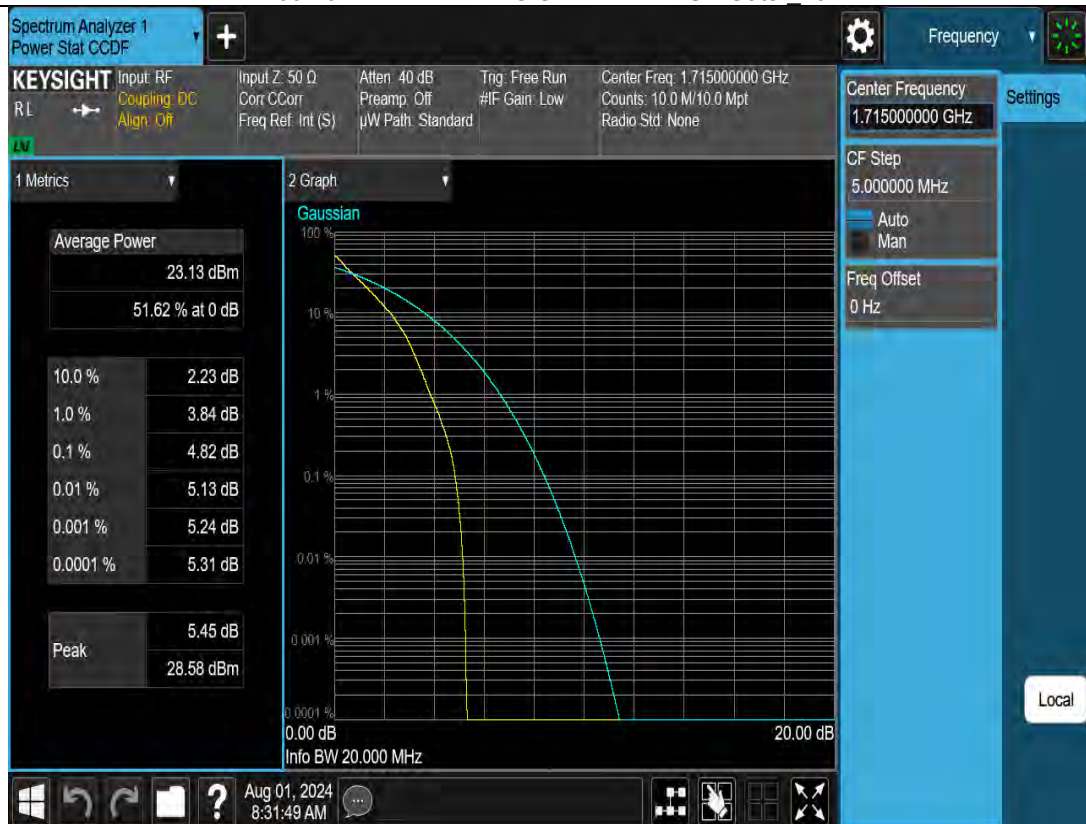
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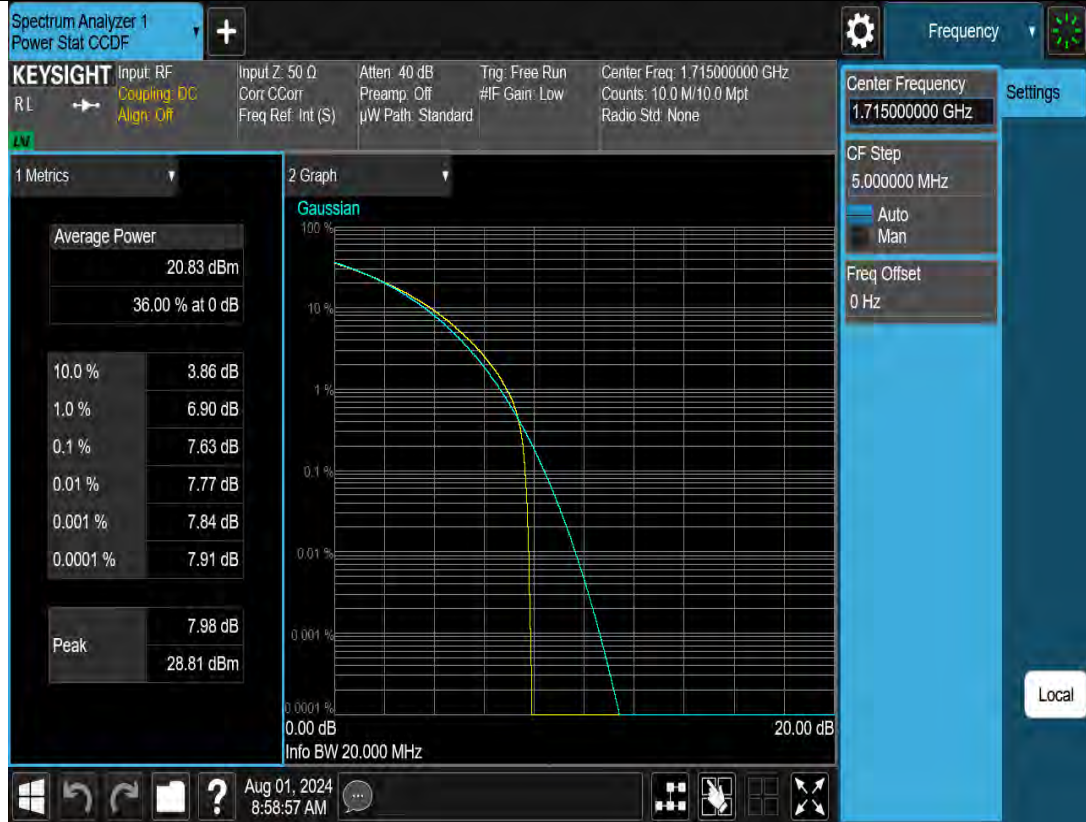
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N66-10M-PAPR-L-DFT-s-OFDM-Pi2 BPSK-Outer Full



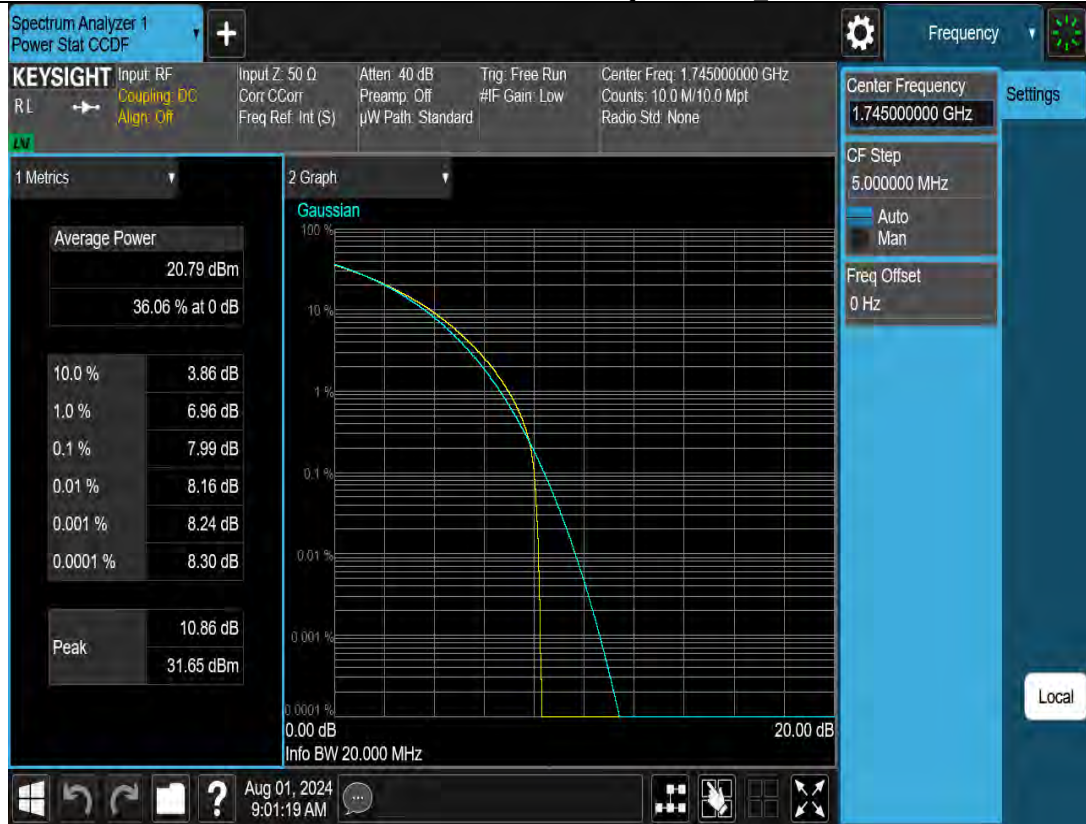
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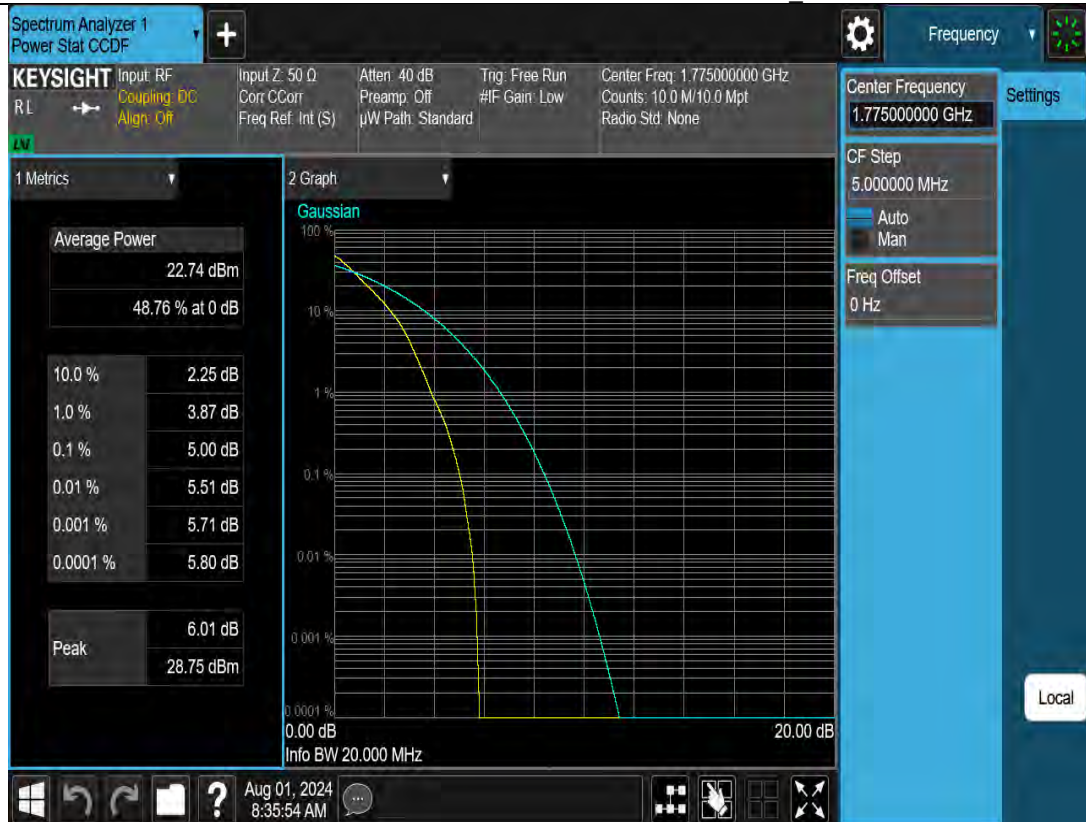
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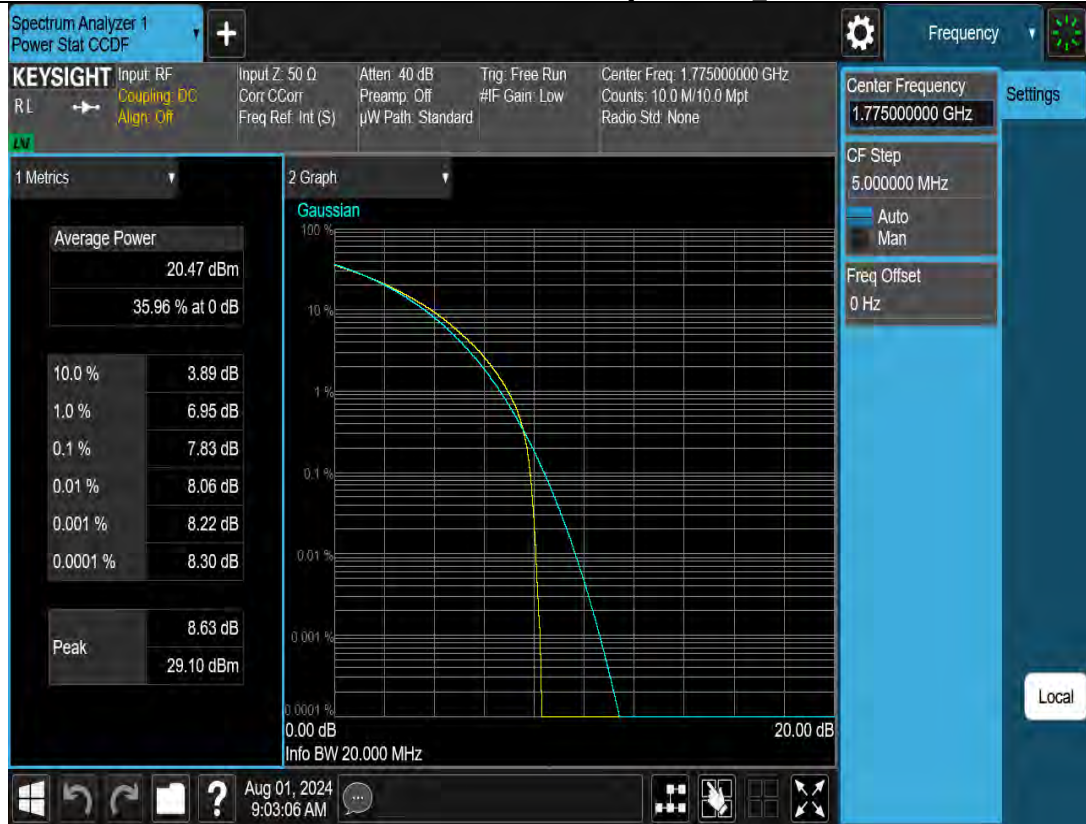
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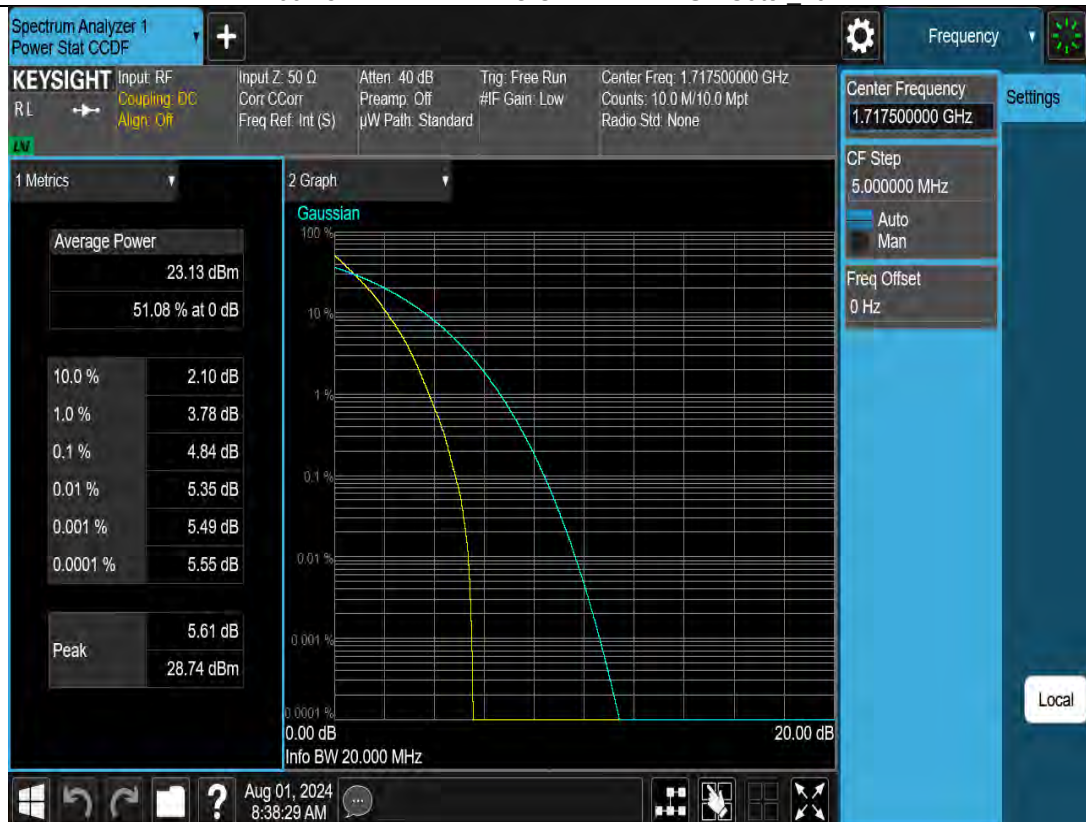
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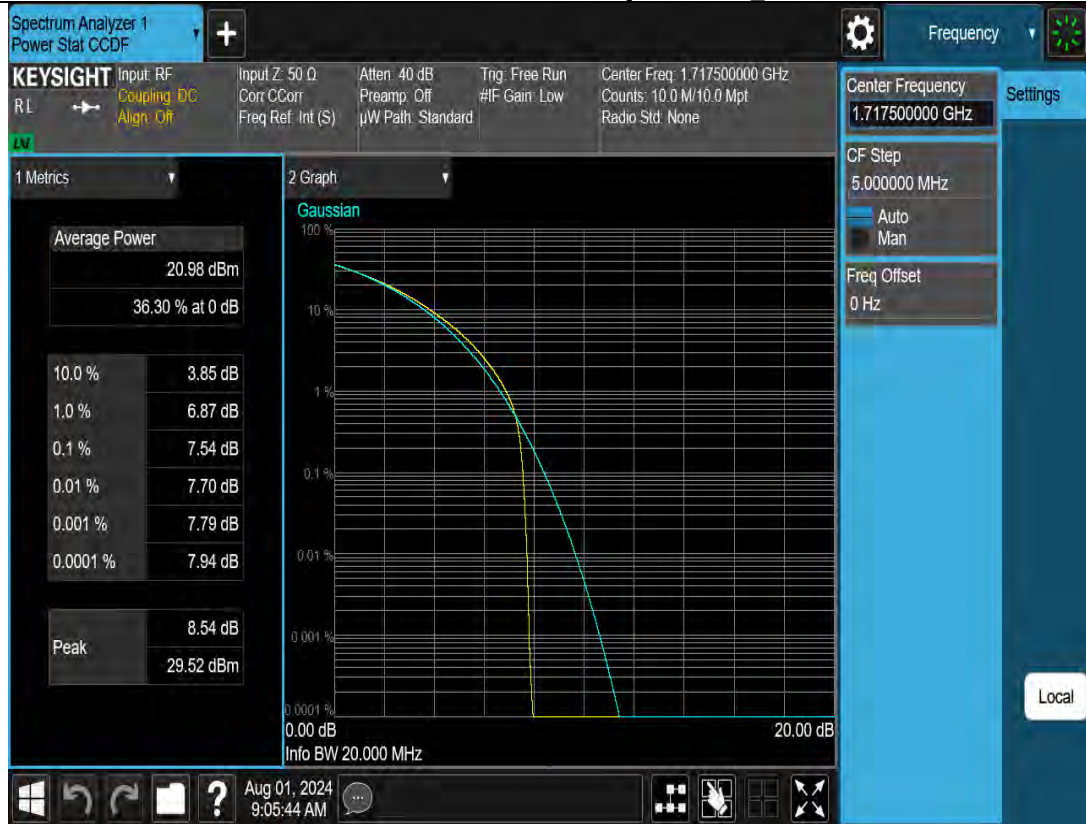
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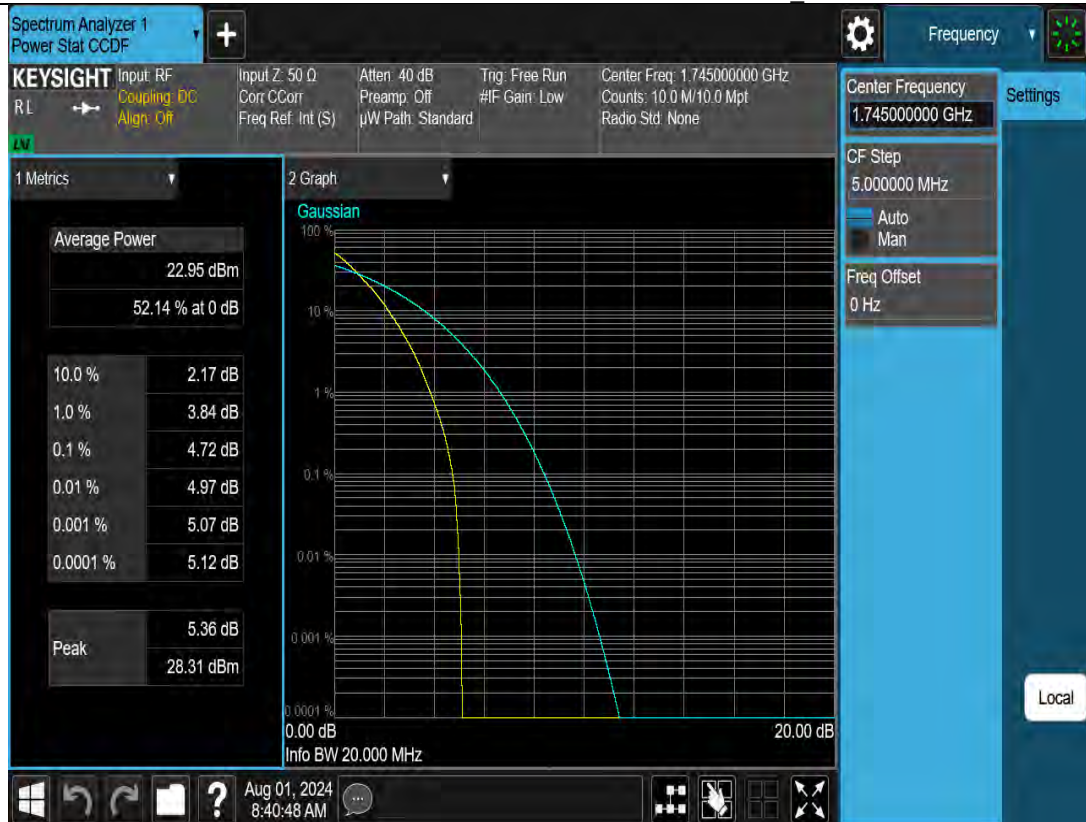
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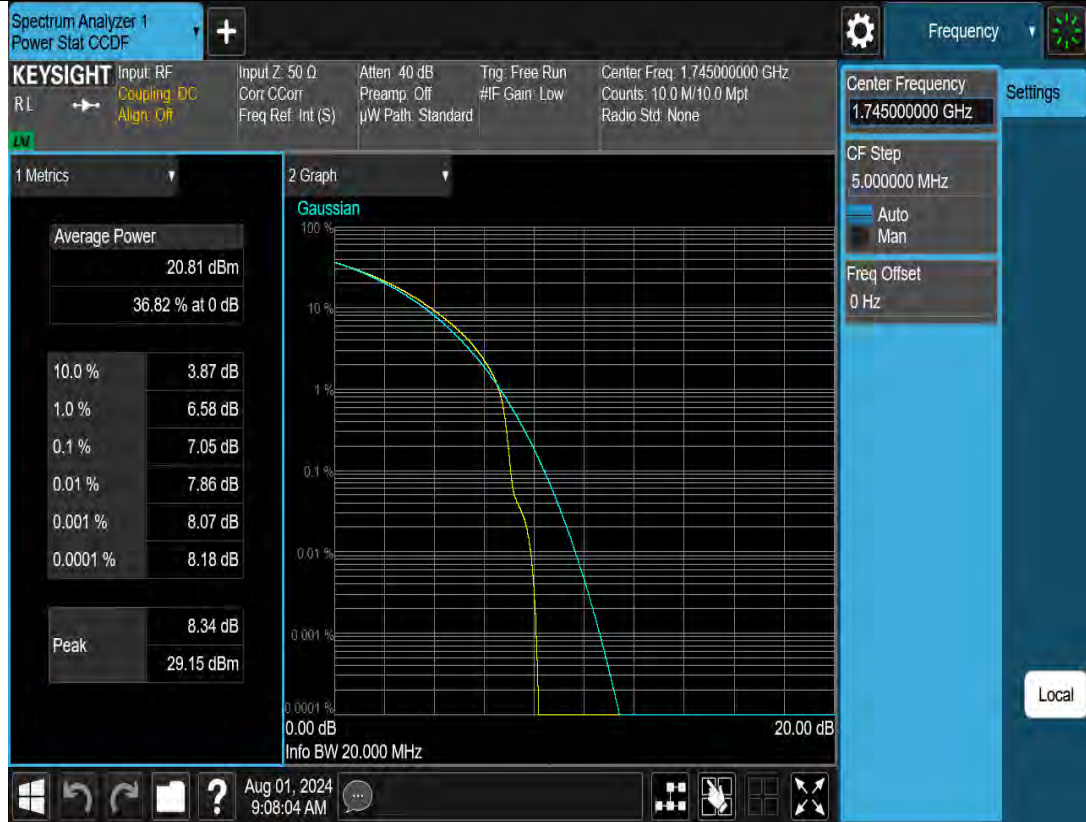
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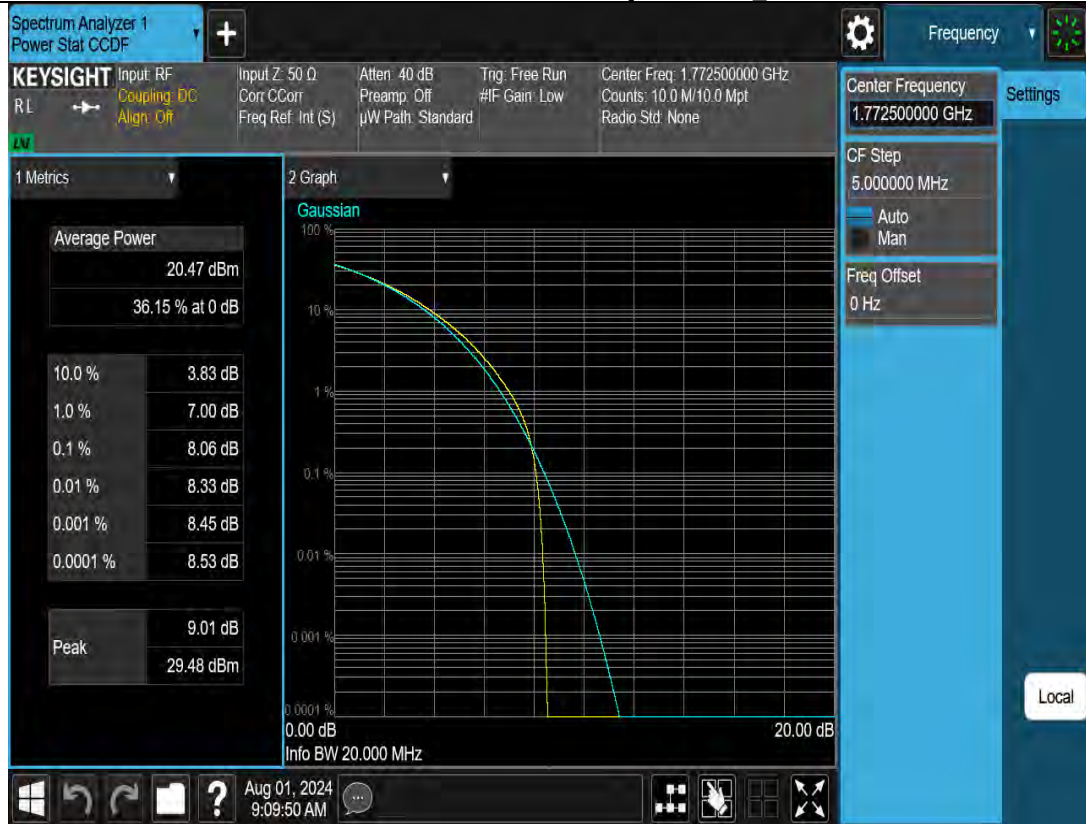
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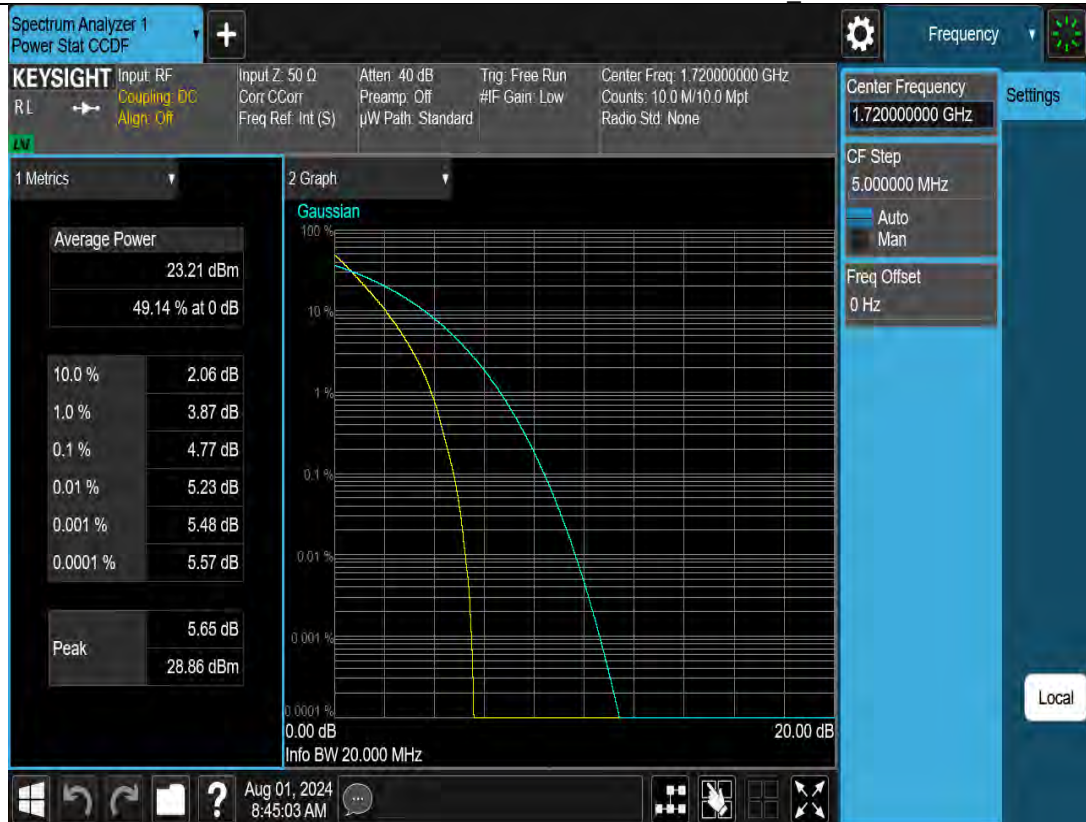
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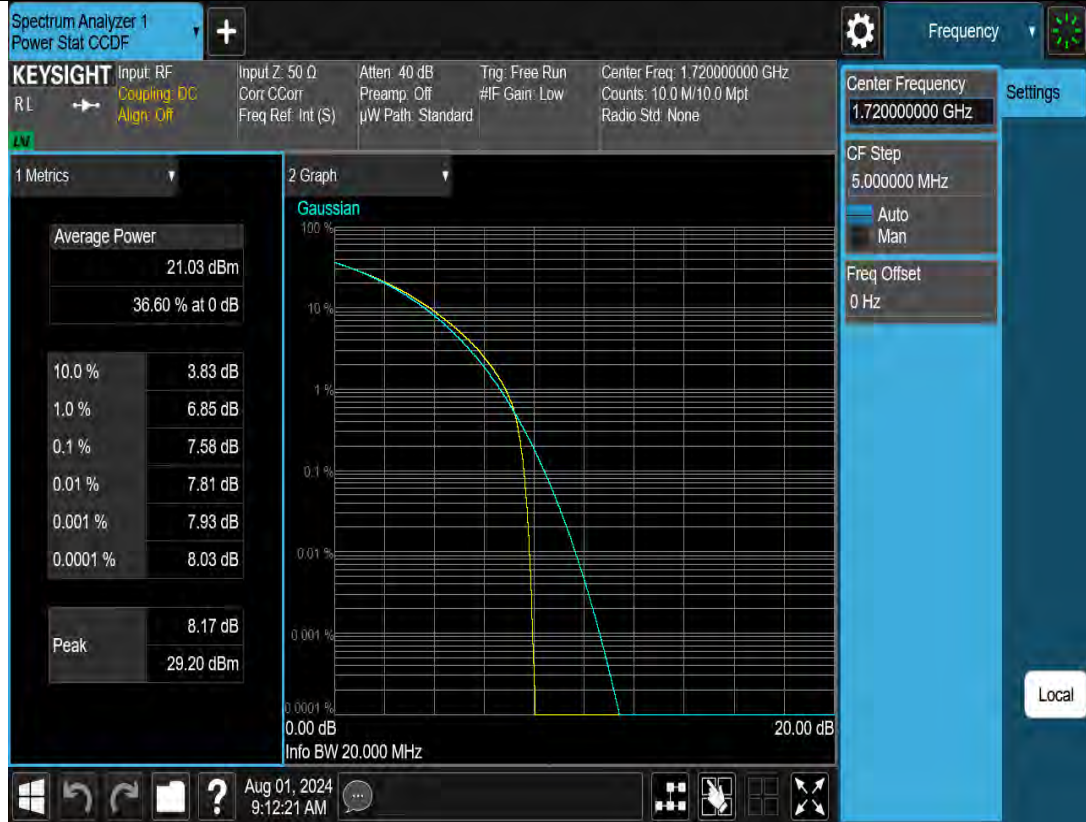
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N66-20M-PAPR-L-DFT-s-OFDM-Pi2 BPSK-Outer Full



N66-20M-PAPR-L-CP-OFDM-QPSK-Outer Full



N66-20M-PAPR-M-DFT-s-OFDM-Pi2 BPSK-Outer Full



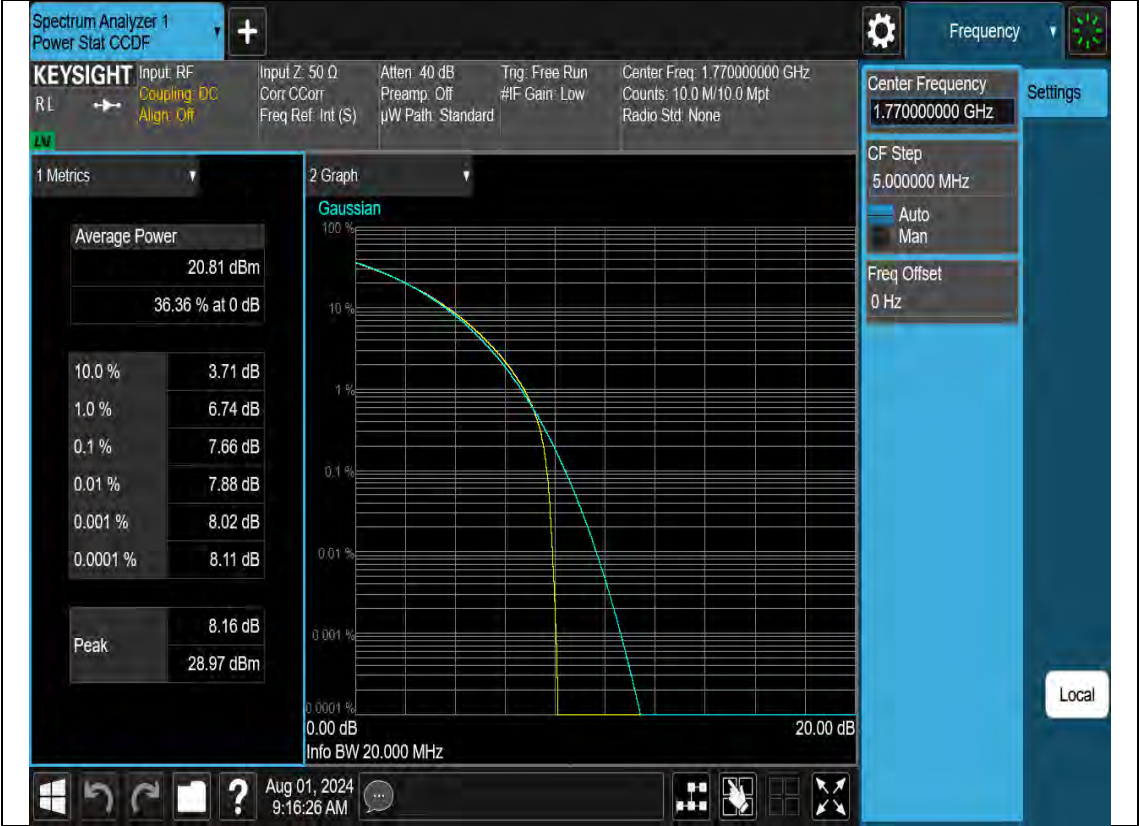
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N66-20M-PAPR-H-CP-OFDM-QPSK-Outer Full

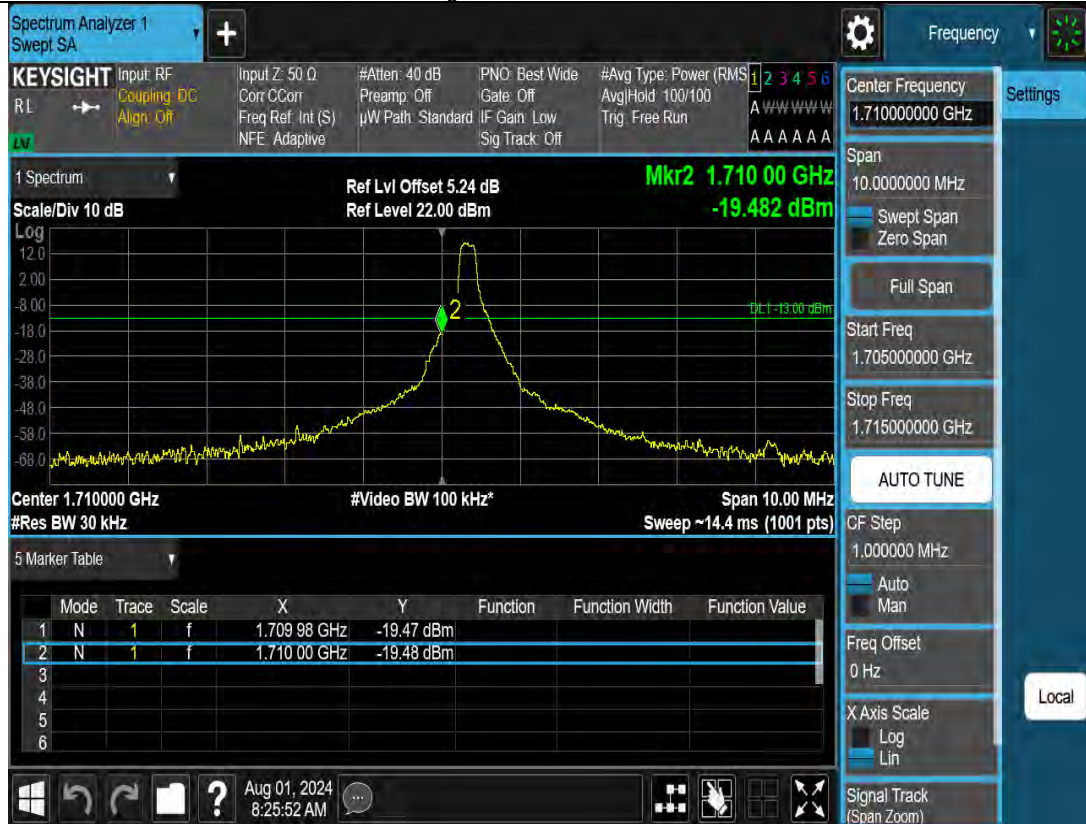


Bandedge

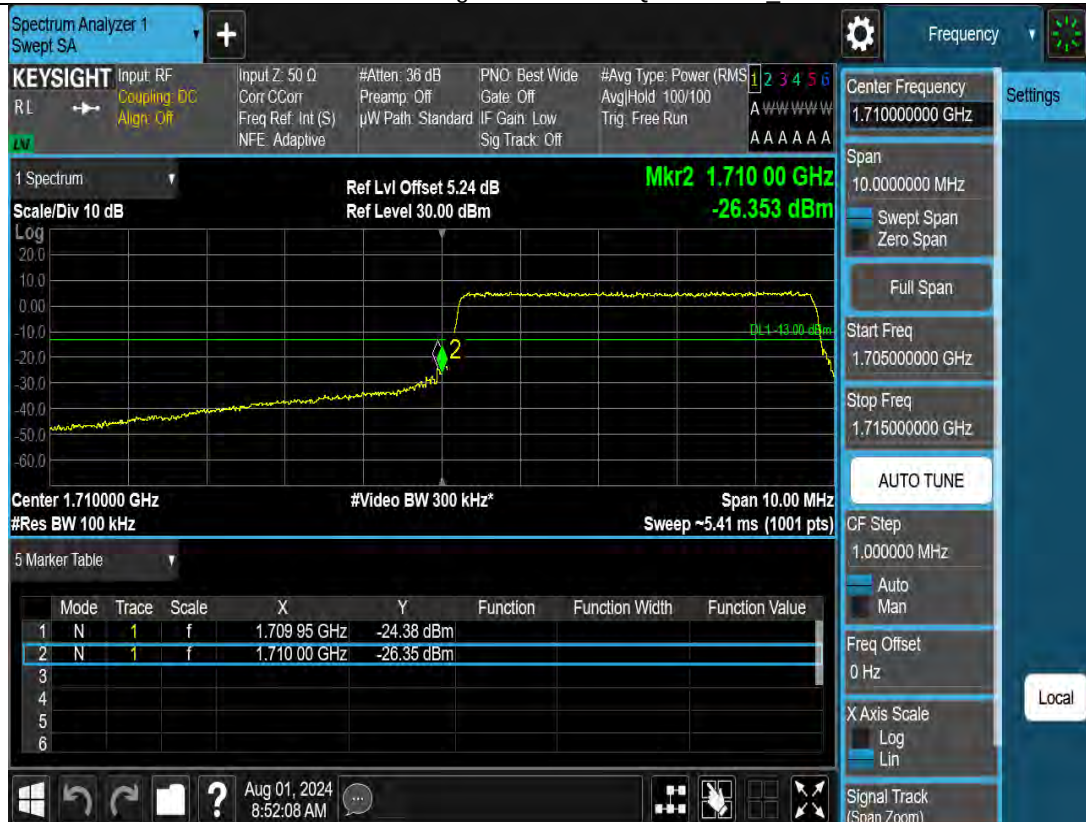
test graph



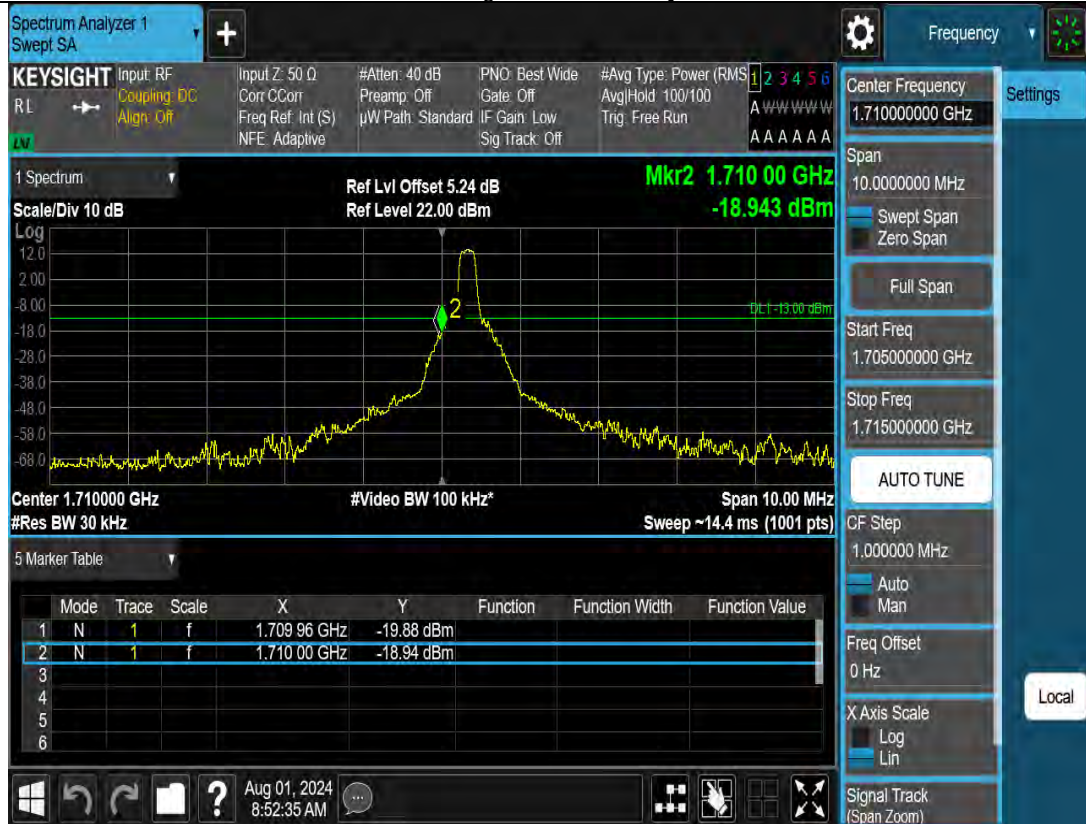
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N66-5M-Bandedge-L-CP-OFDM-QPSK-Outer Full



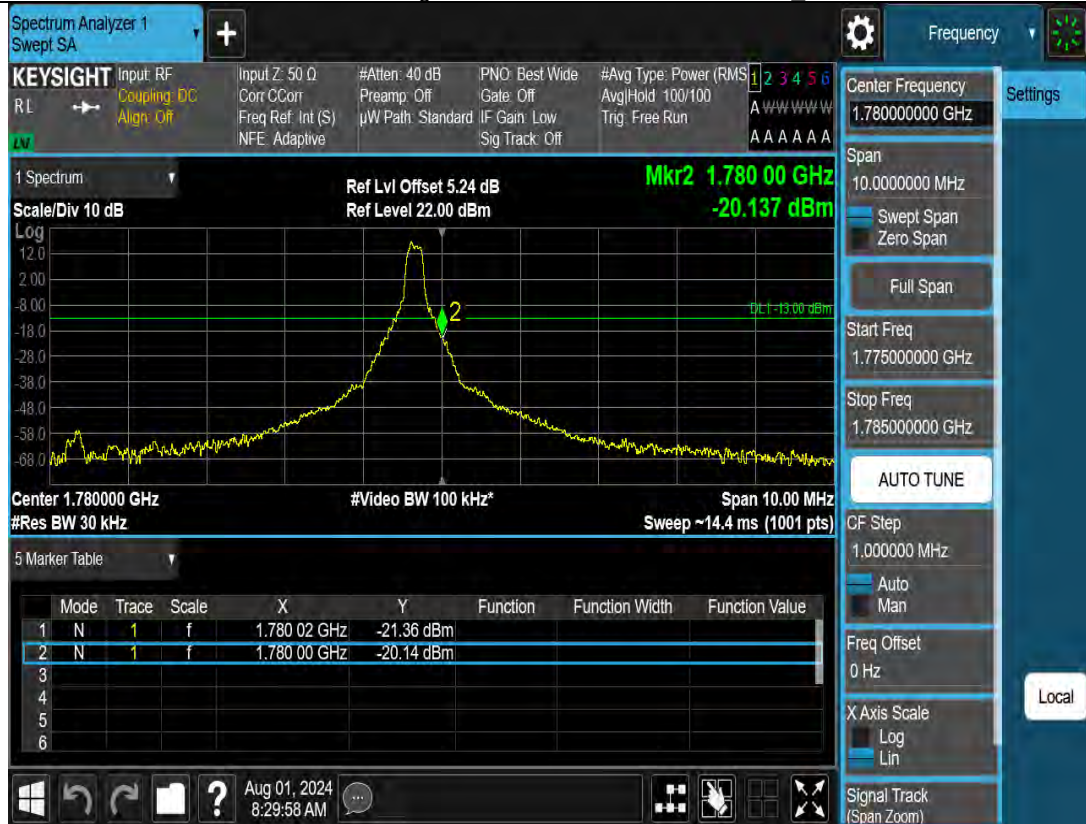
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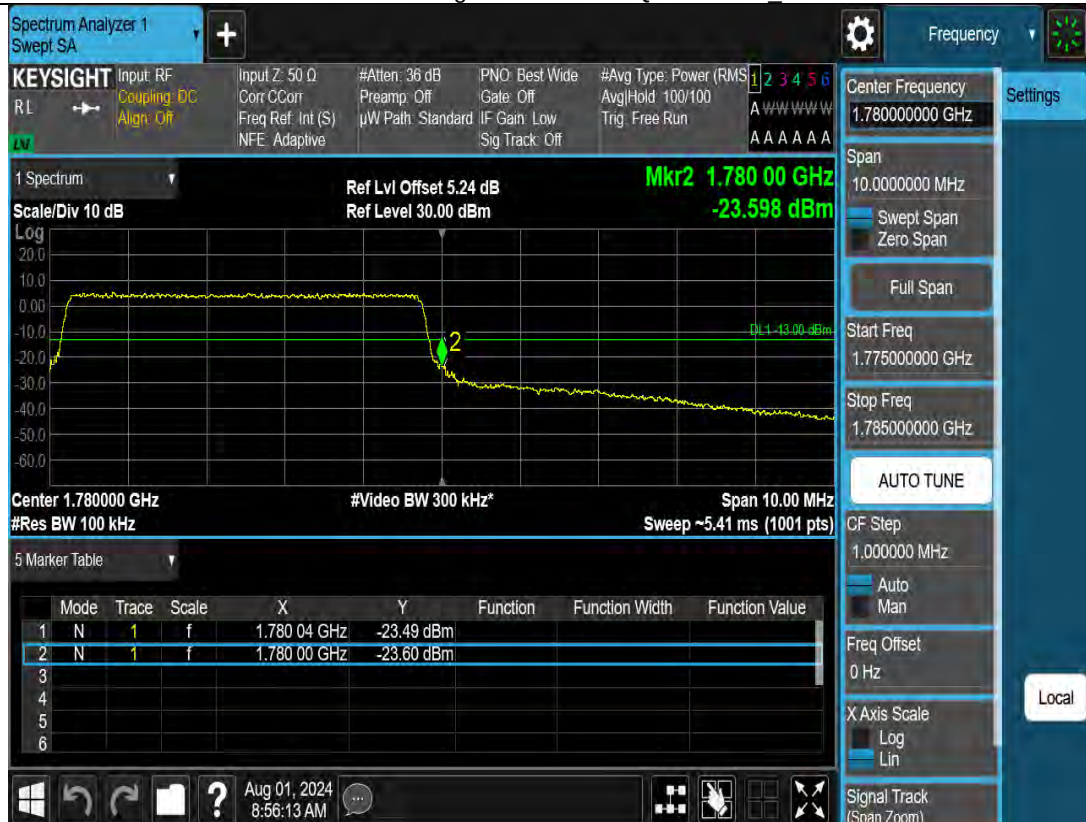
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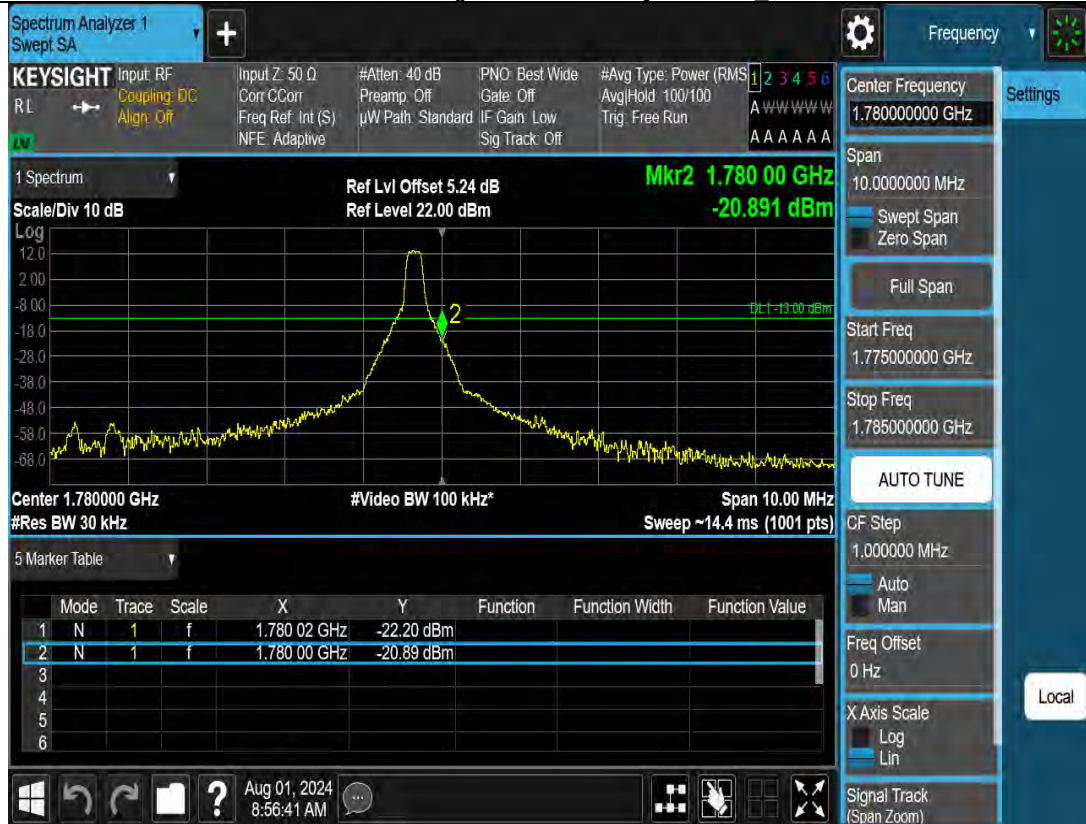
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N66-5M-Bandedge-H-CP-OFDM-QPSK-Outer Full



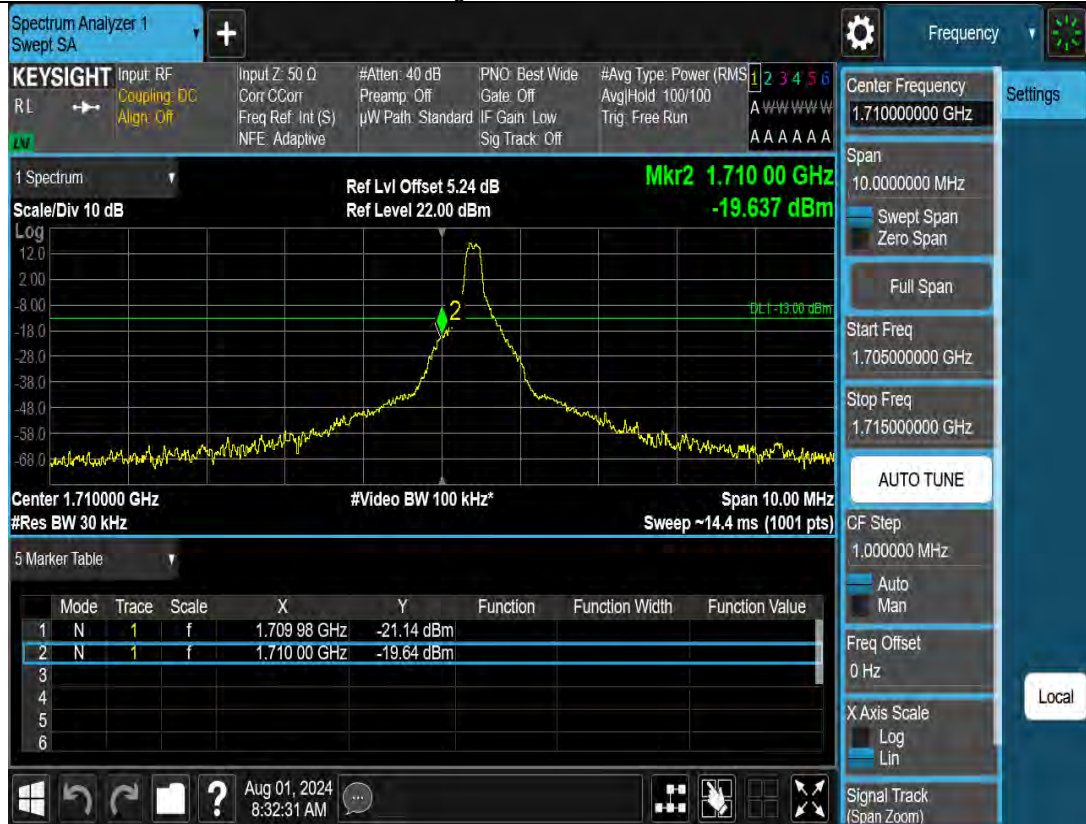
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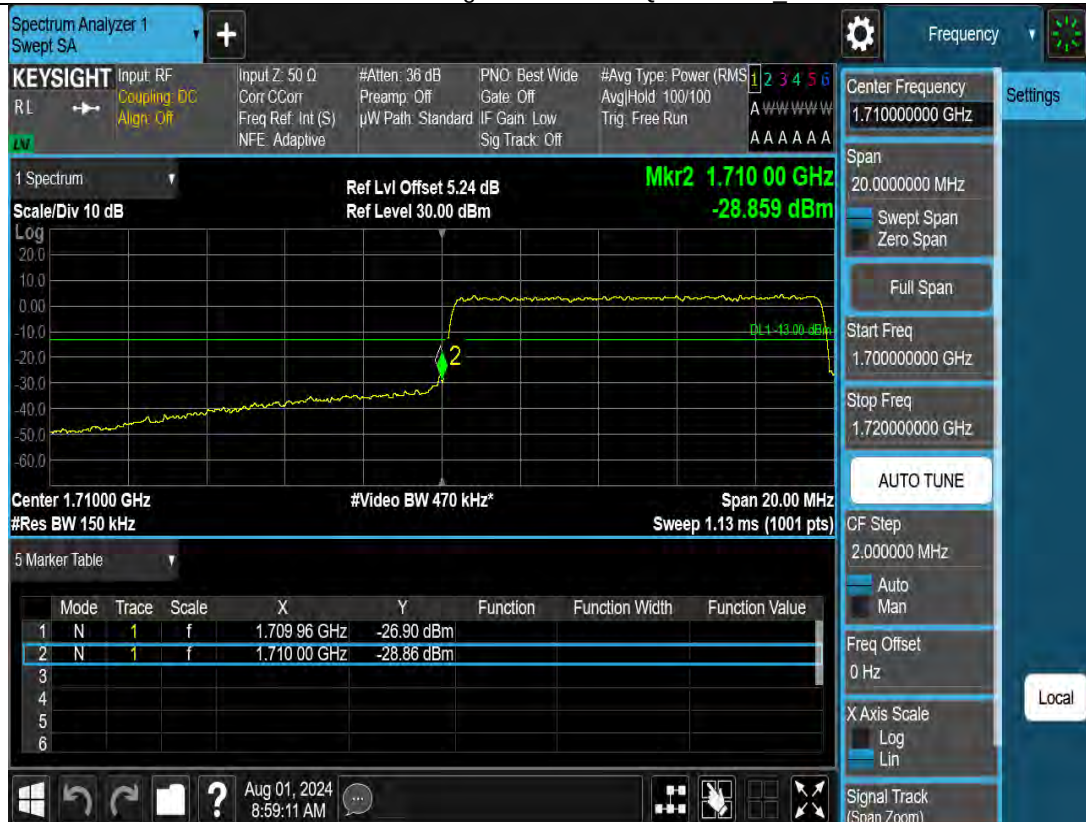
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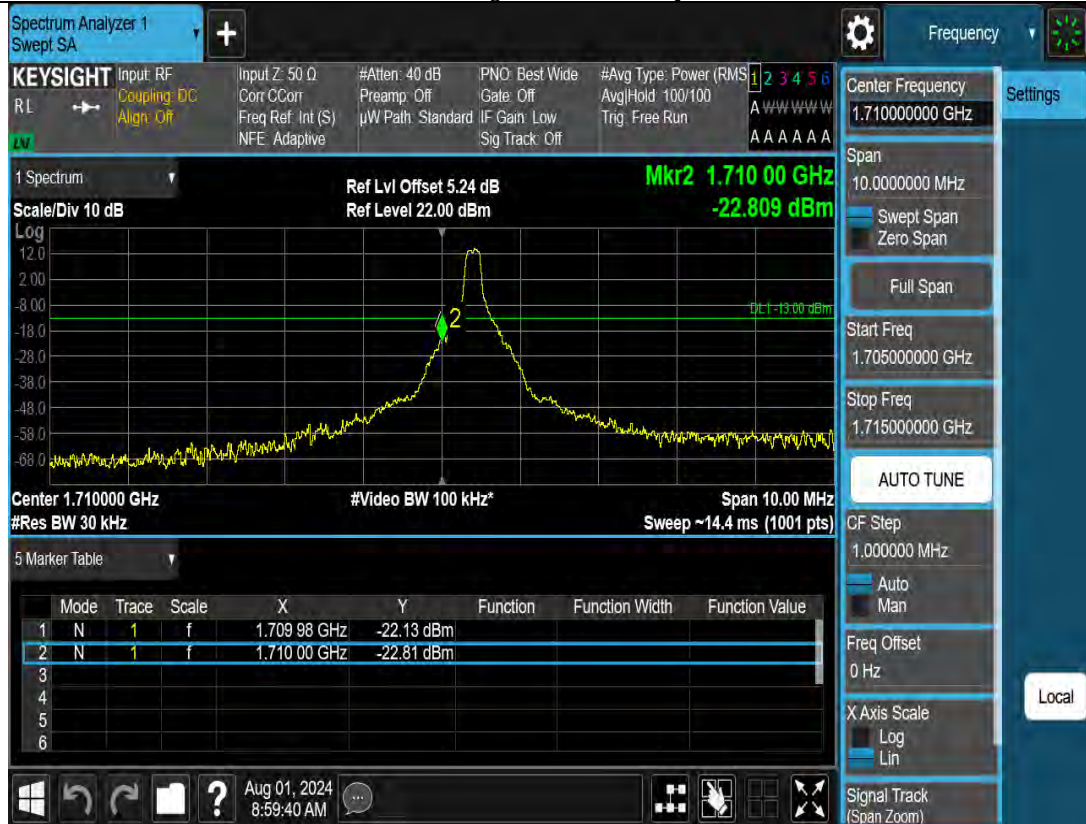
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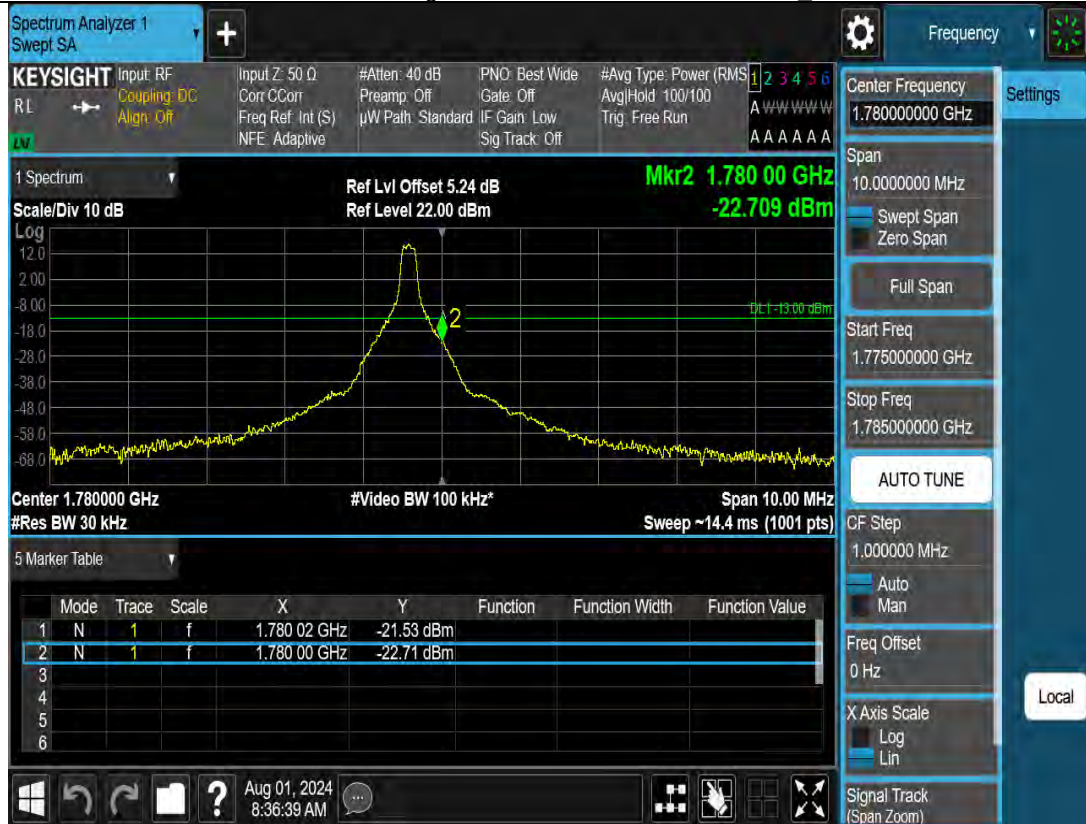
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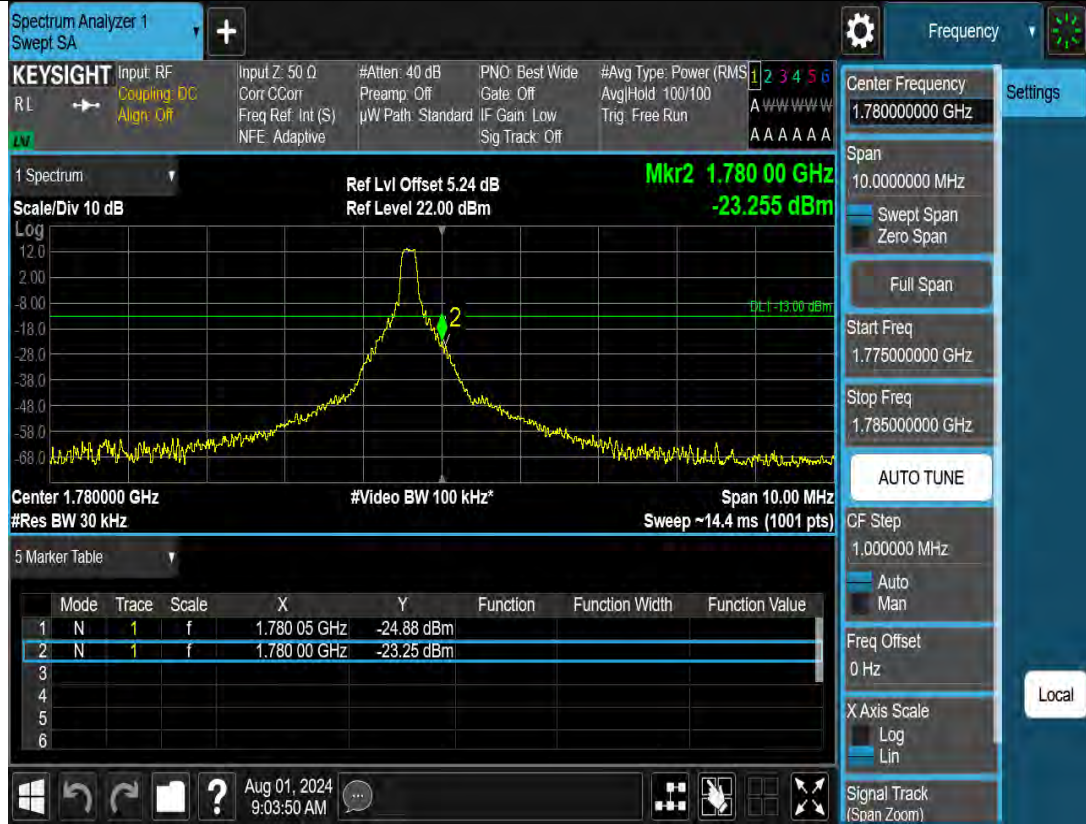
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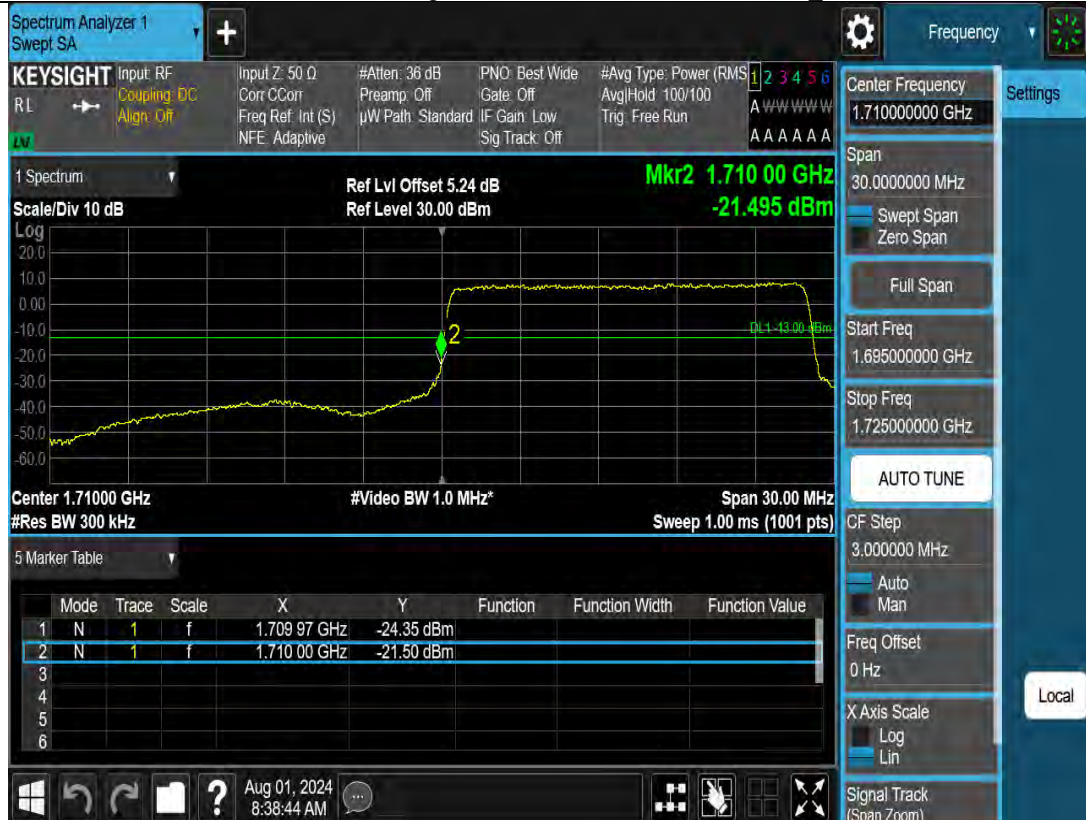
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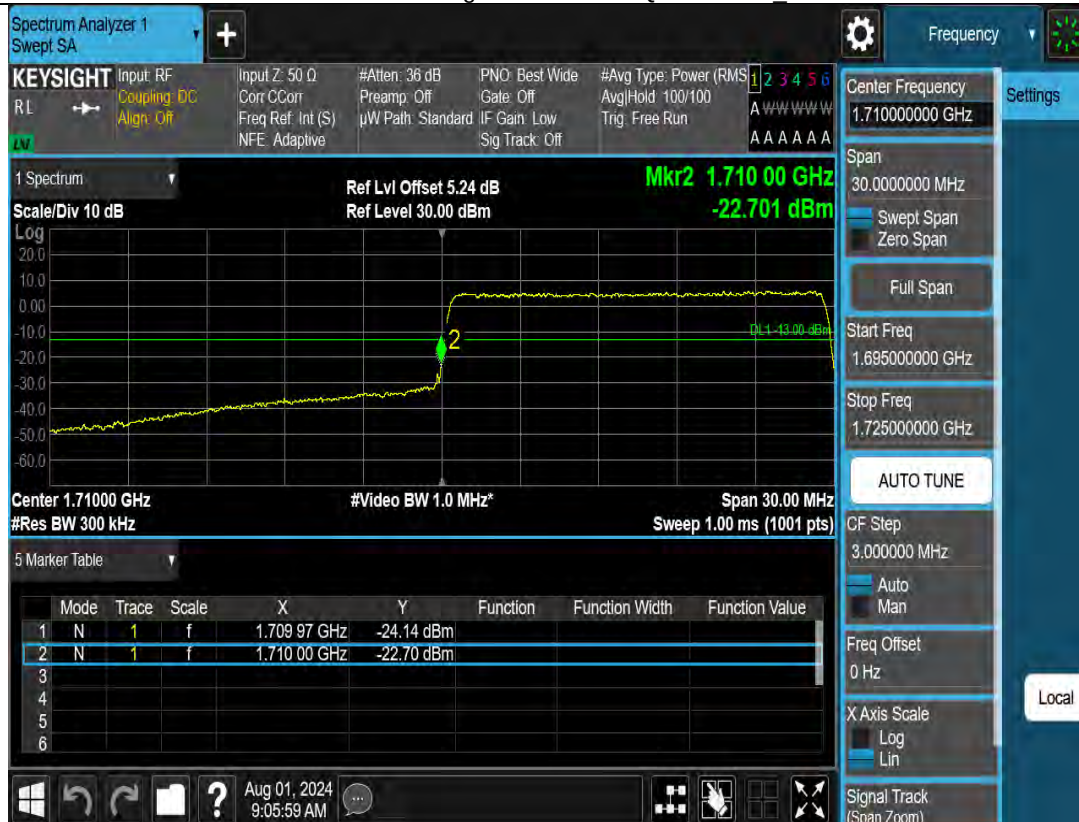
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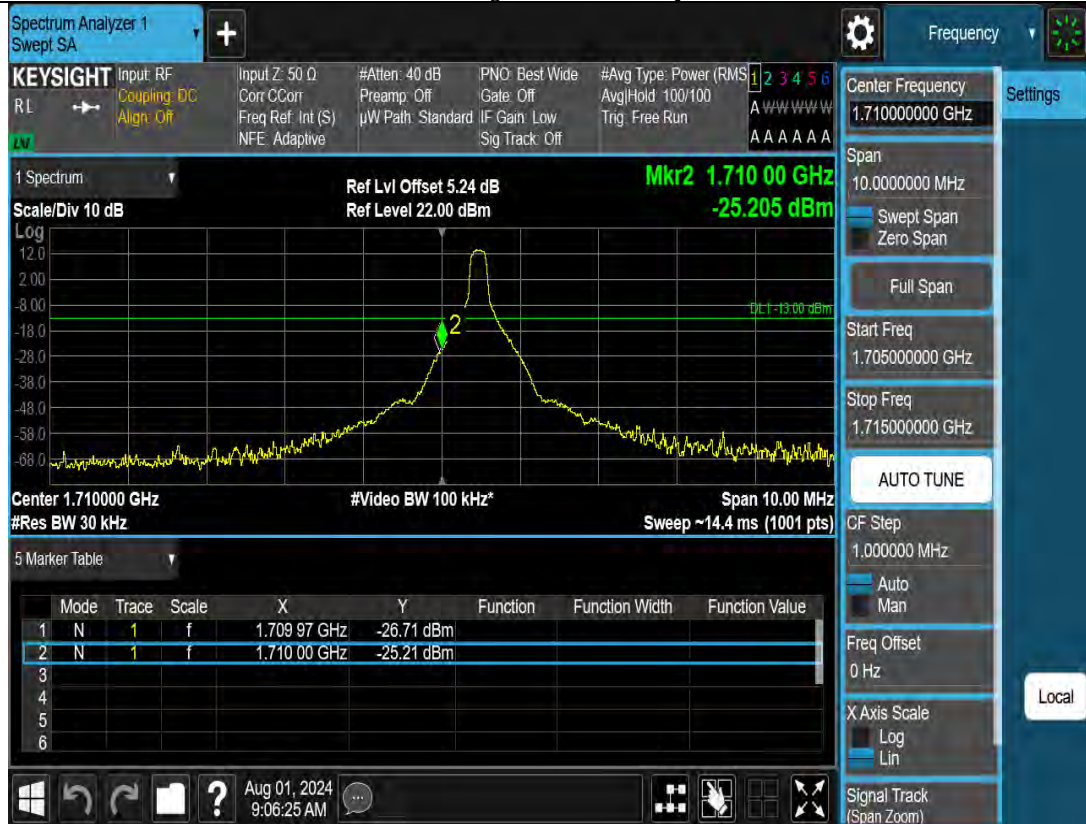
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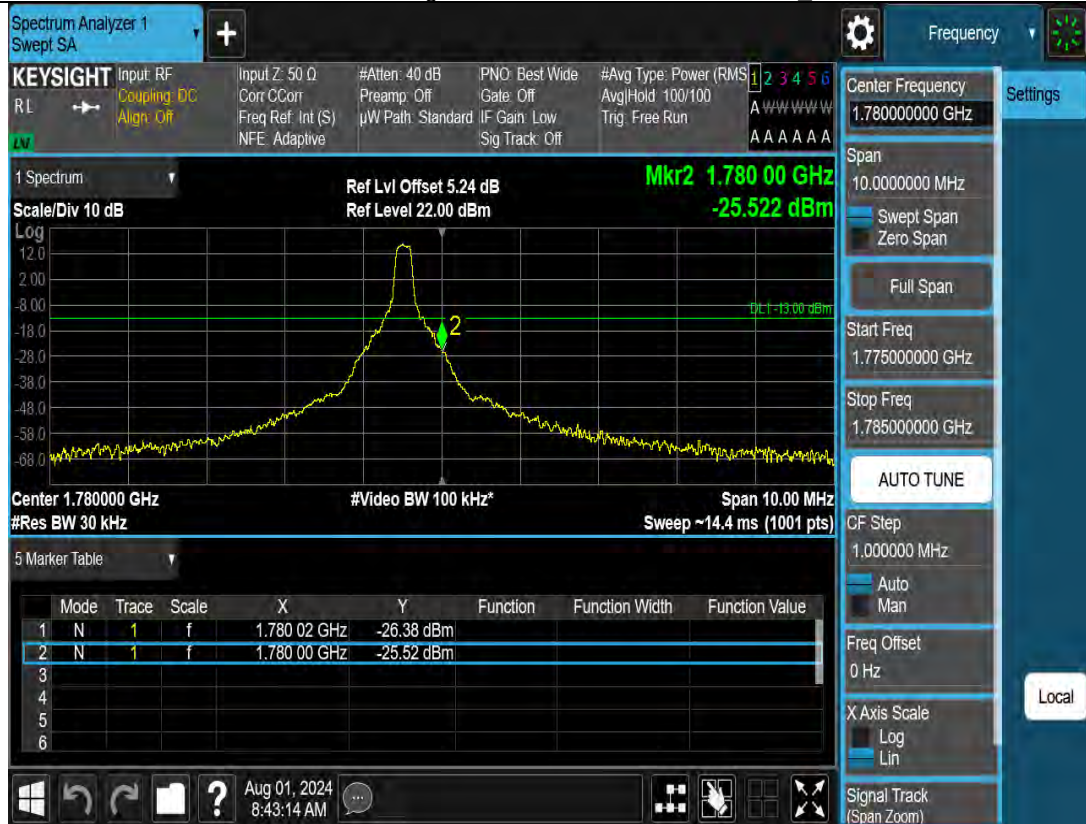
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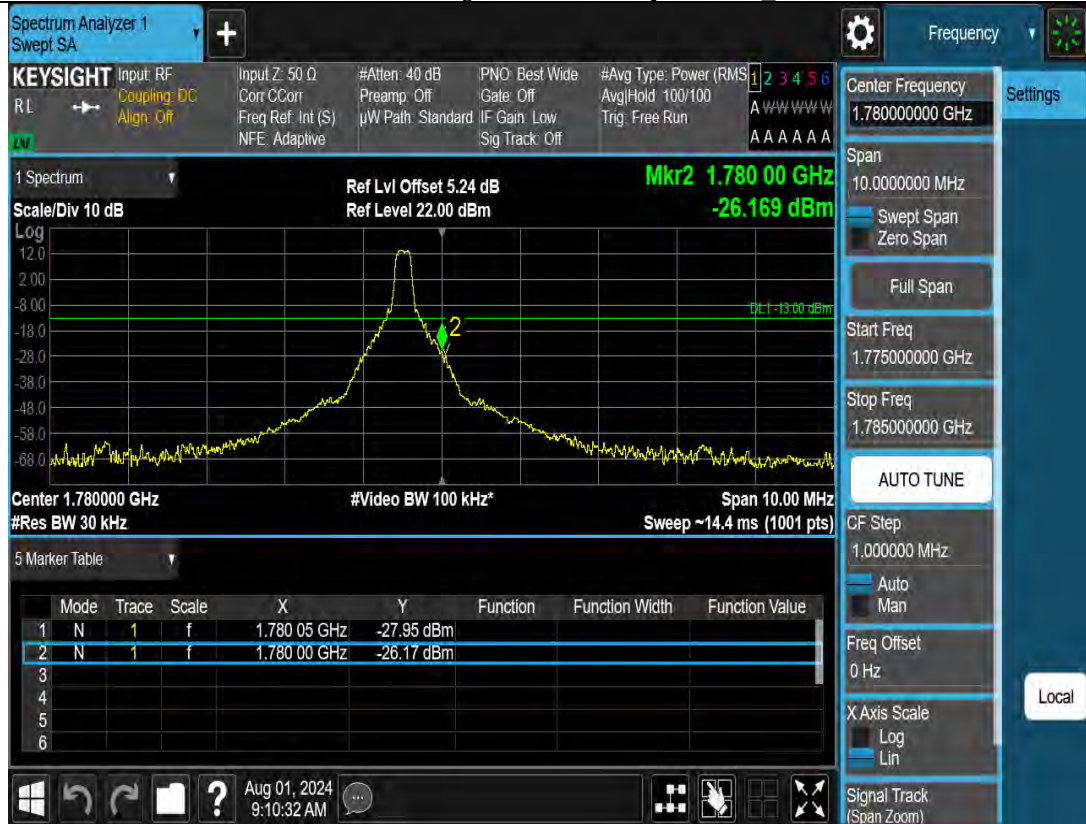
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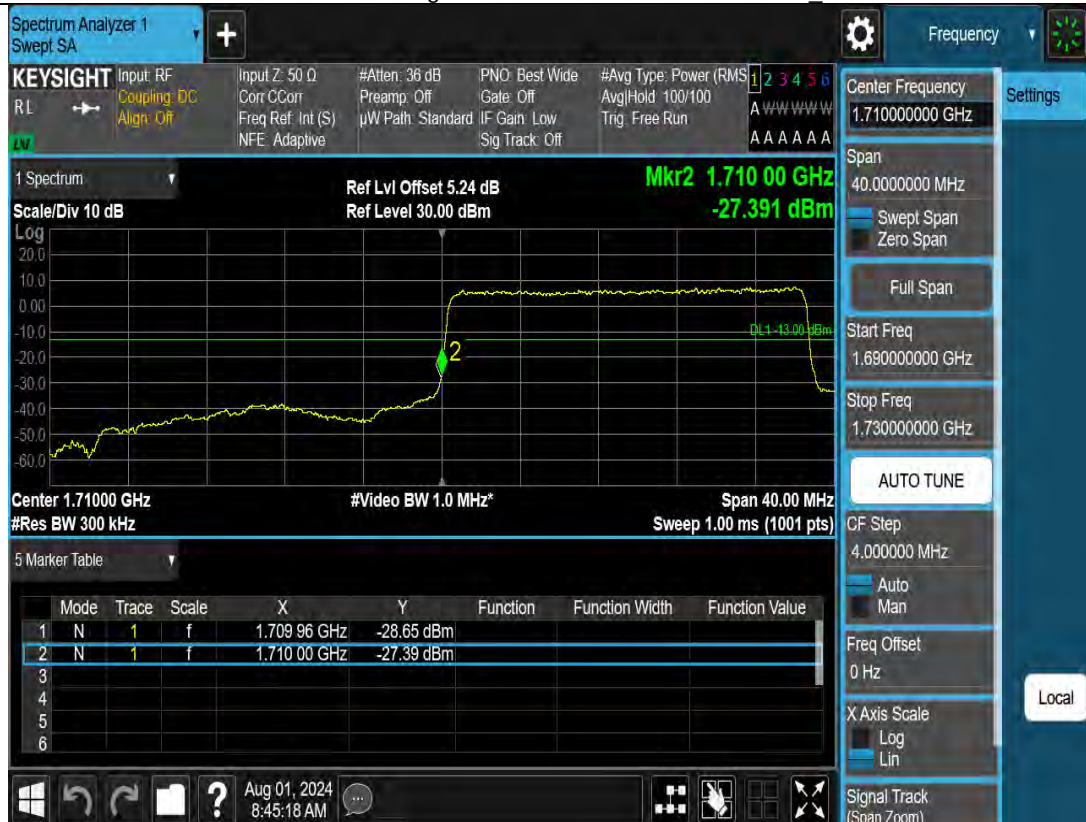
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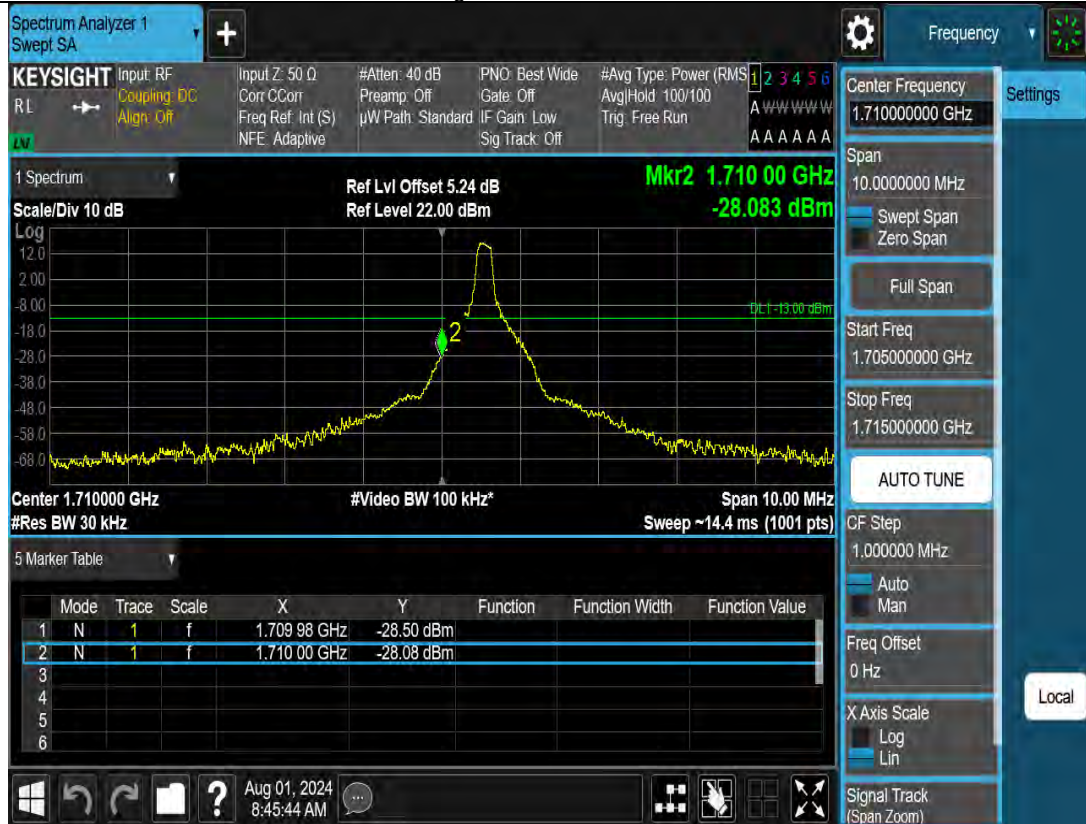
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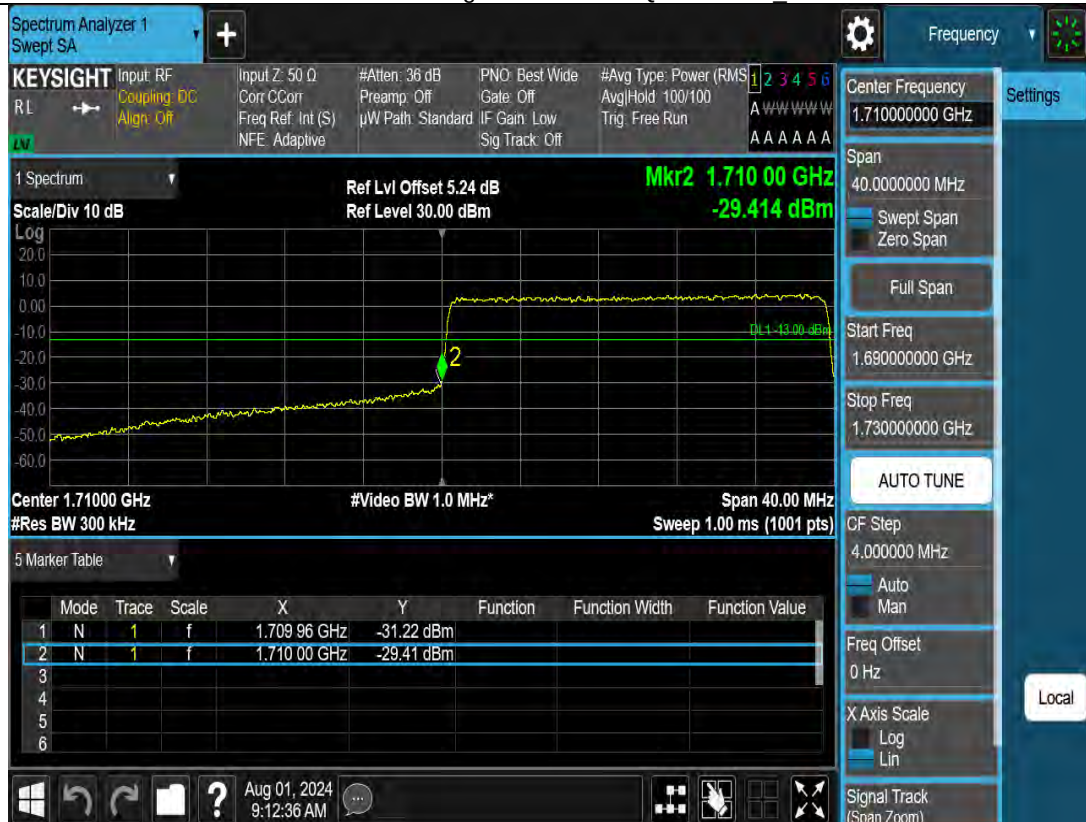
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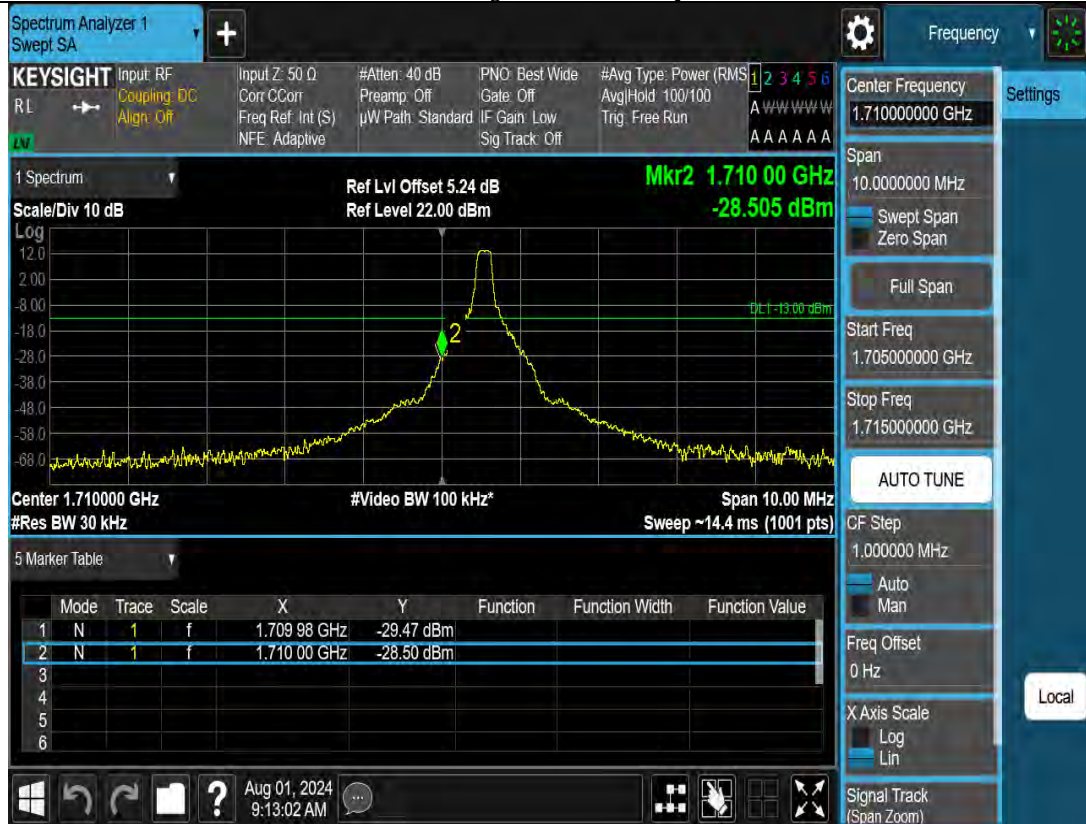
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N66-20M-Bandedge-L-CP-OFDM-QPSK-Outer Full



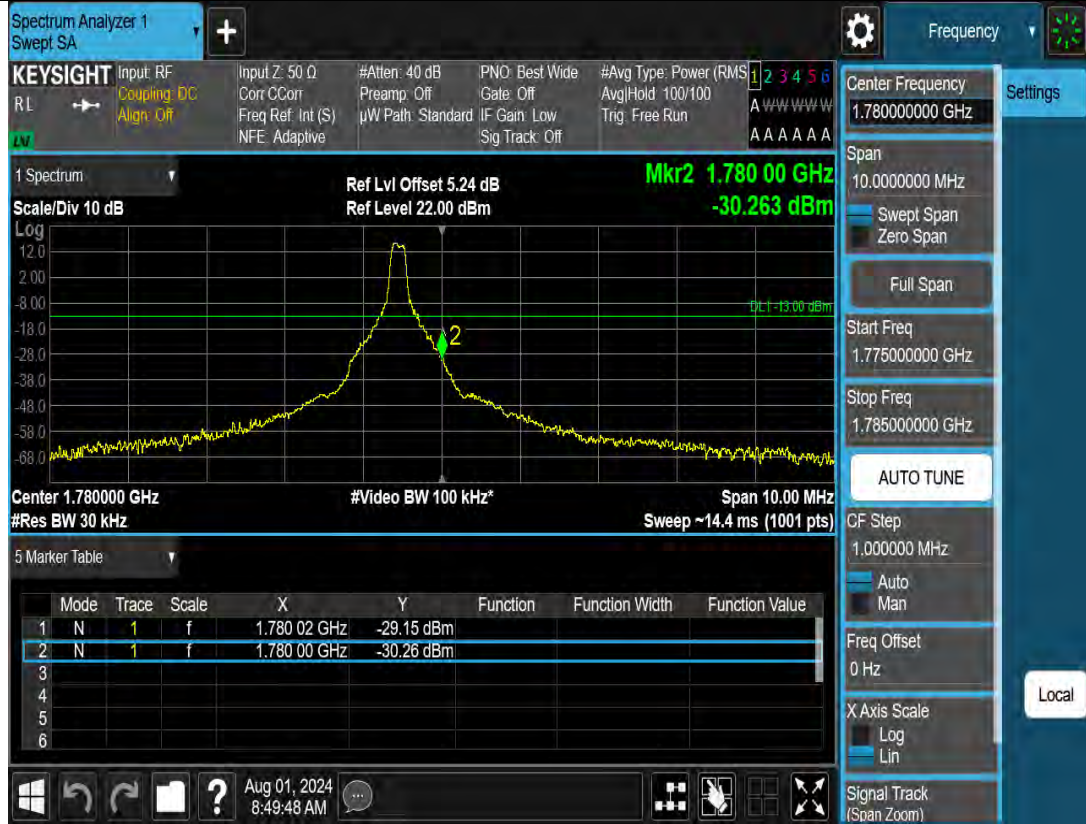
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N66-20M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-Outer Full



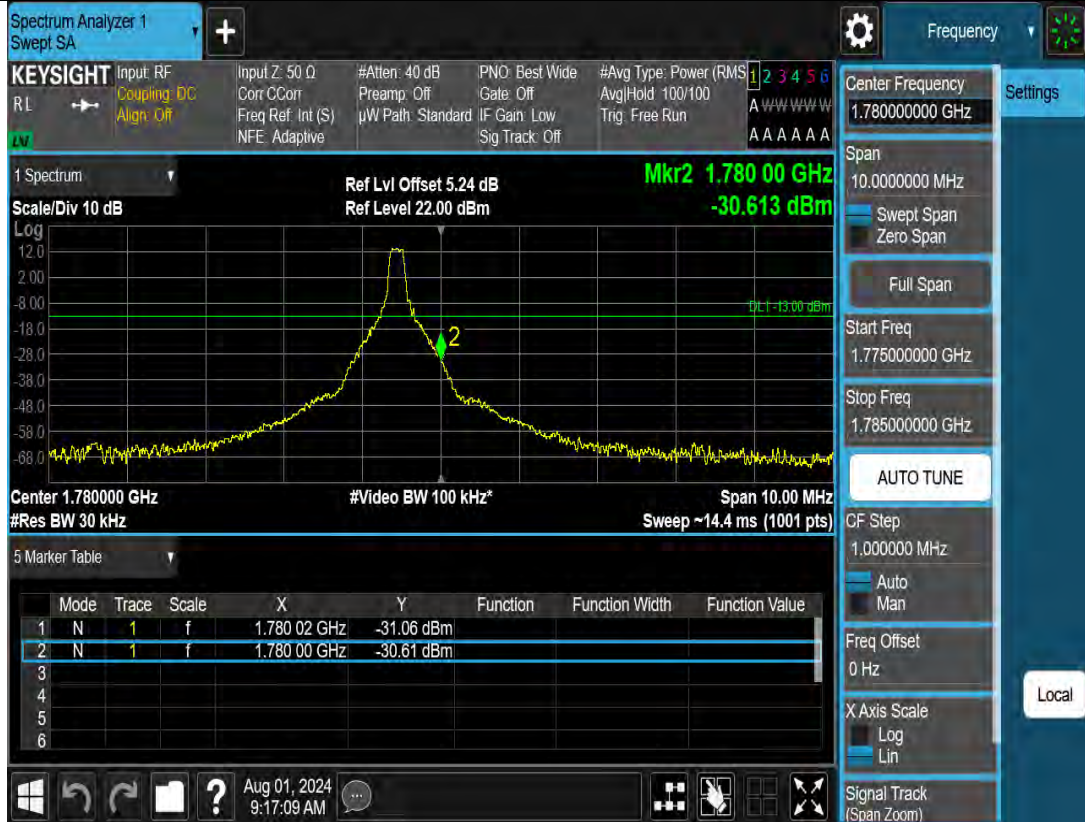
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N66-20M-Bandedge-H-CP-OFDM-QPSK-Outer Full



N66-20M-Bandedge-H-CP-OFDM-QPSK-1RB MAX

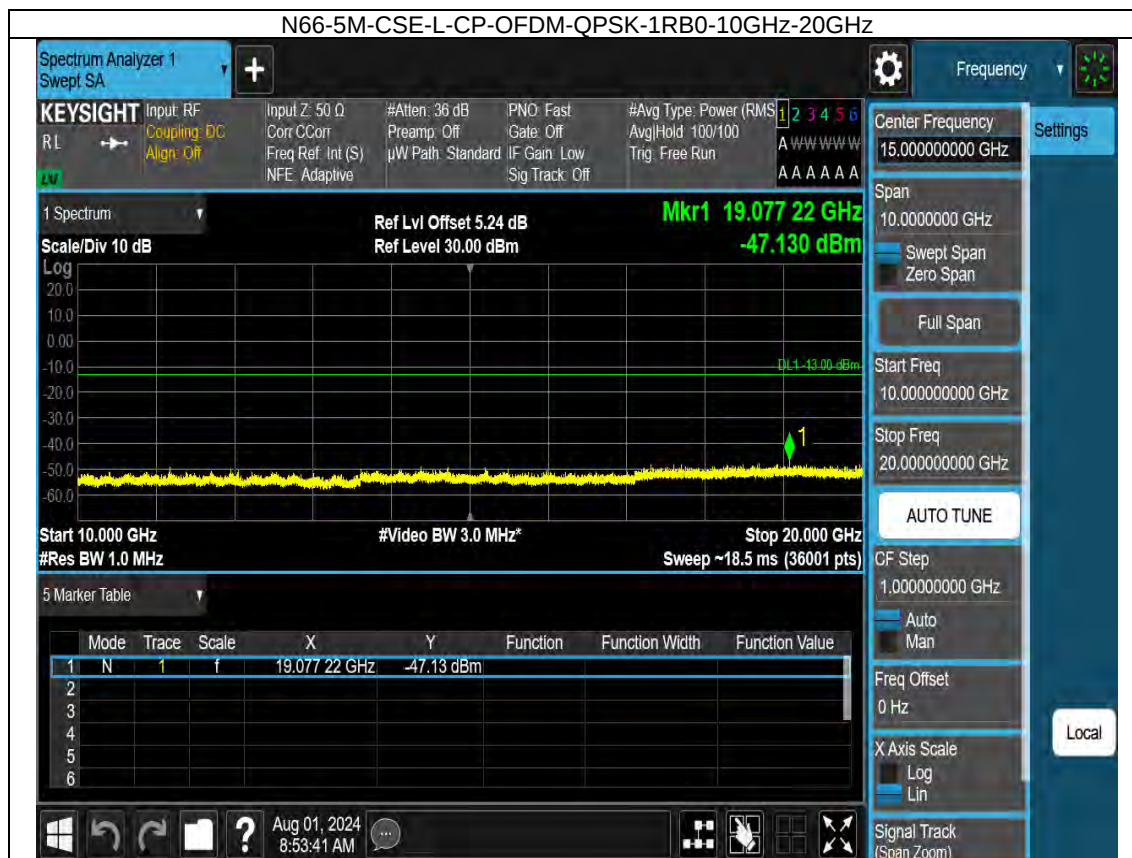


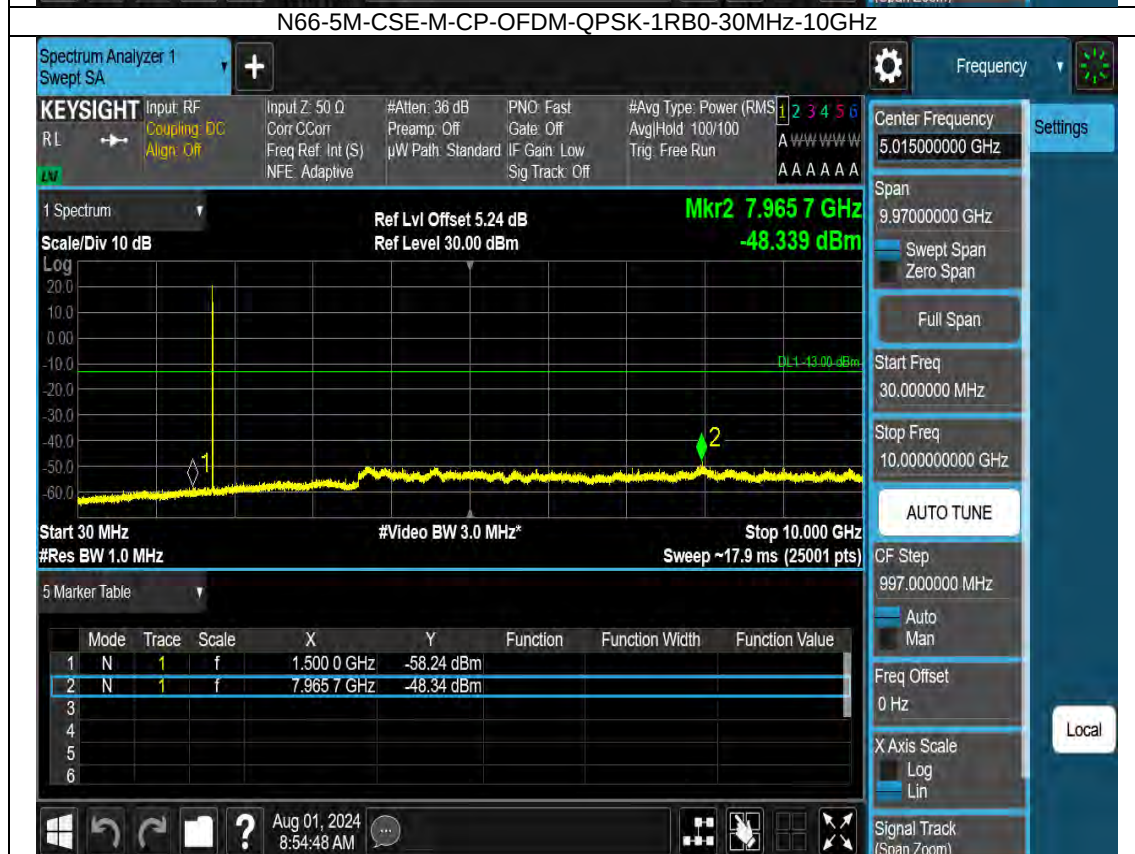
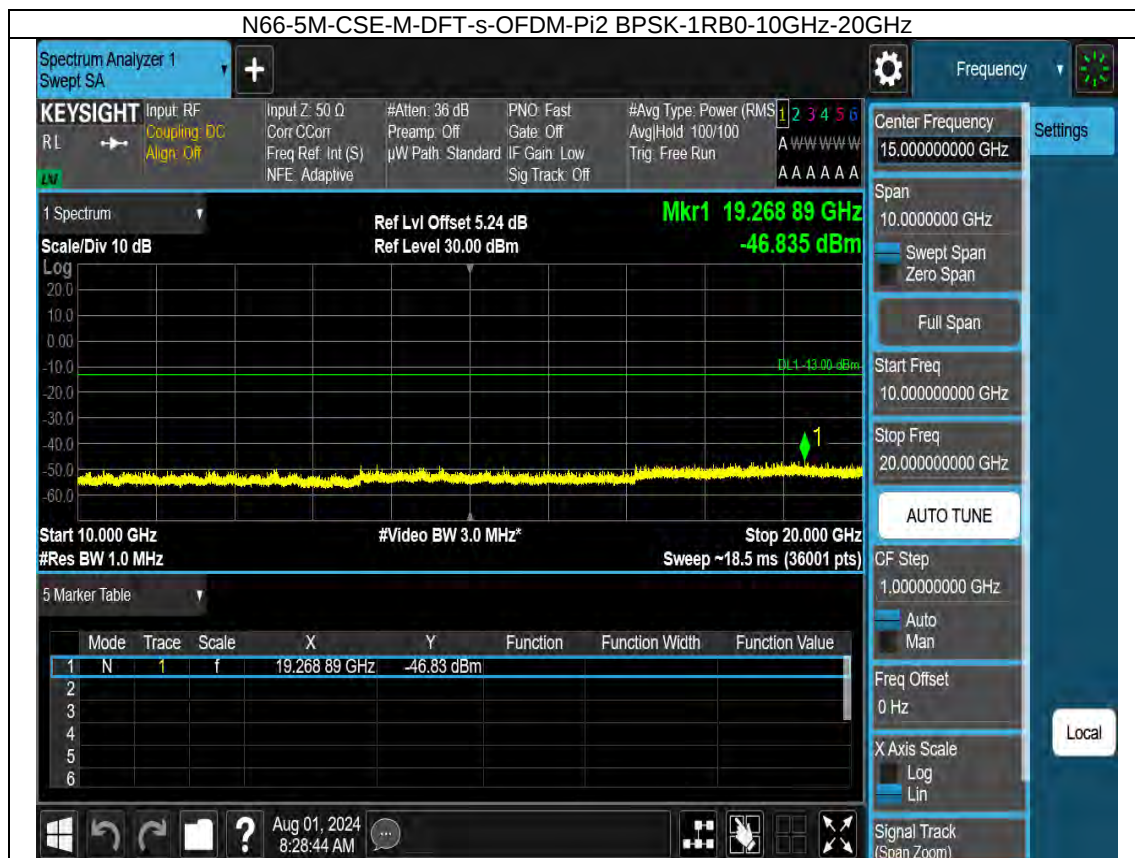
Conducted spurious emissions

test graph





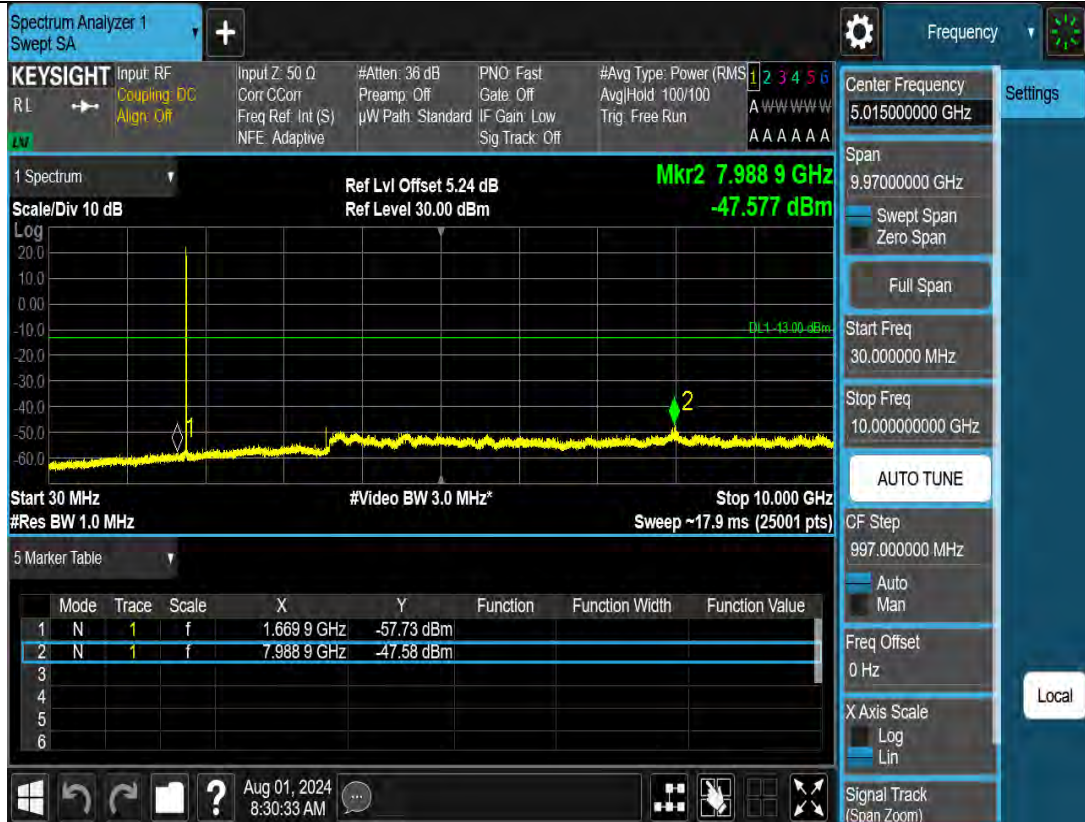


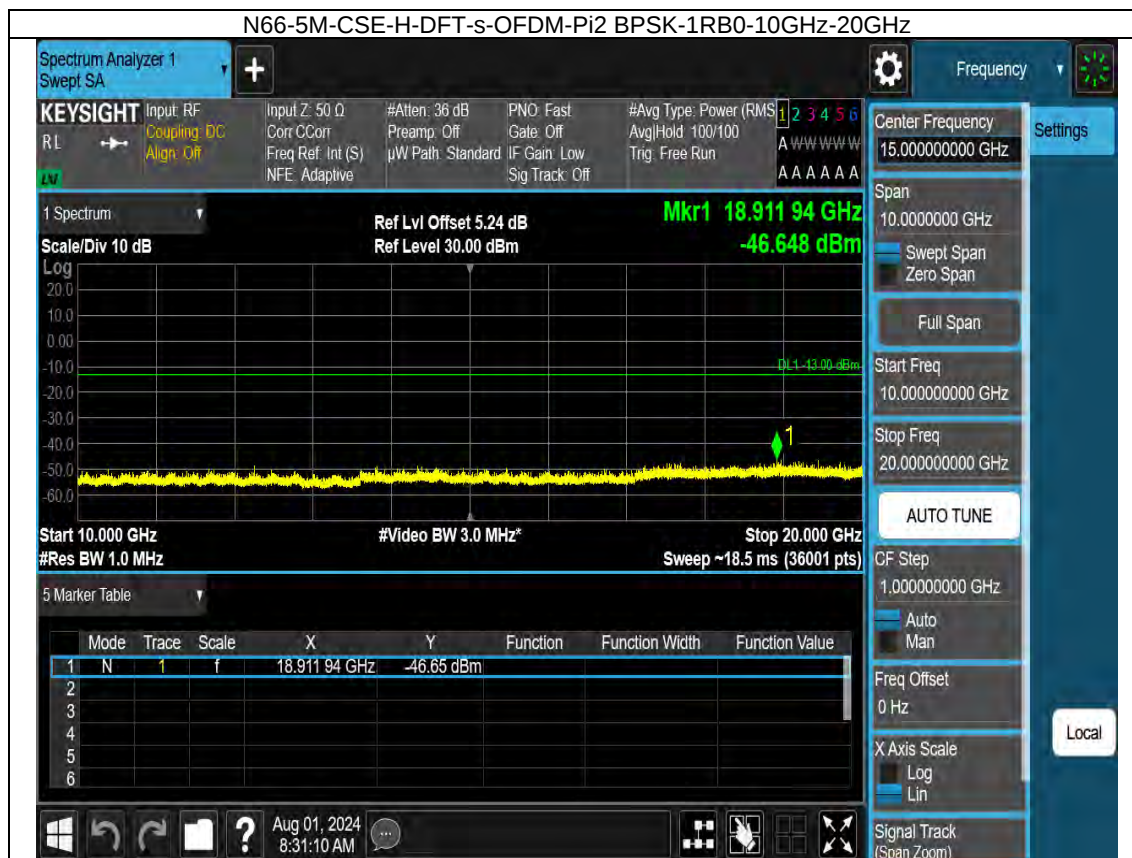


N66-5M-CSE-M-CP-OFDM-QPSK-1RB0-10GHz-20GHz



N66-5M-CSE-H-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz

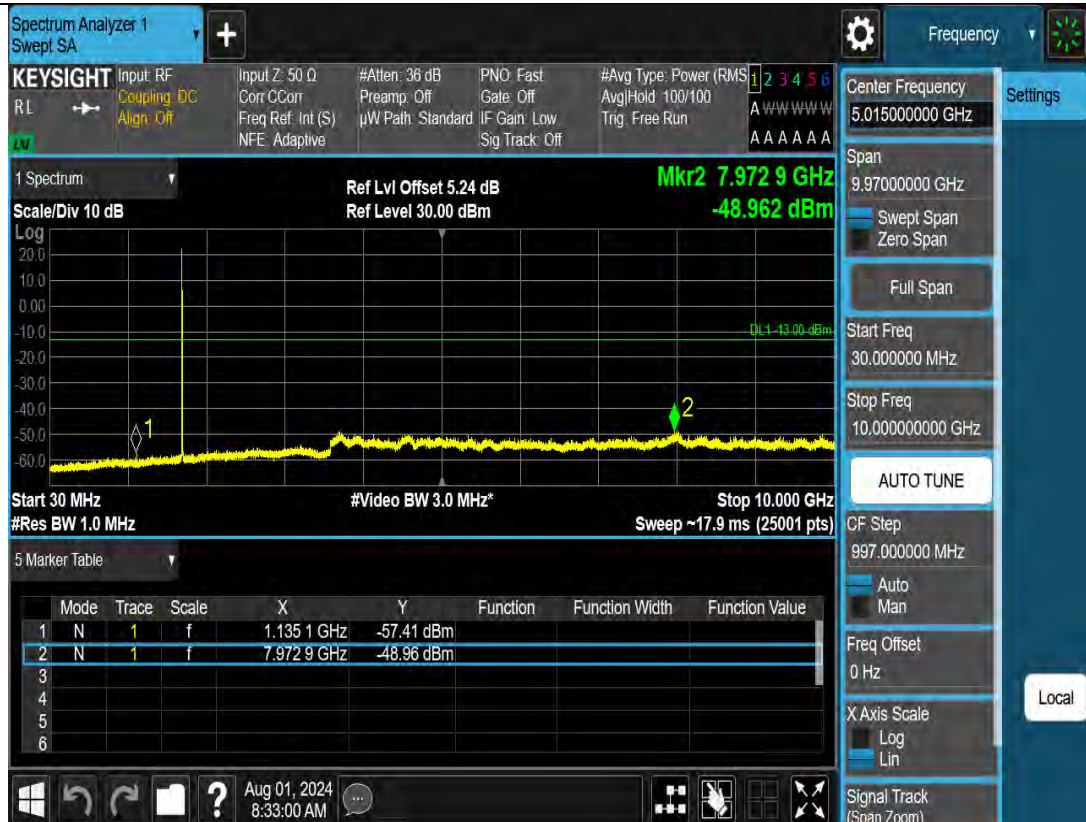




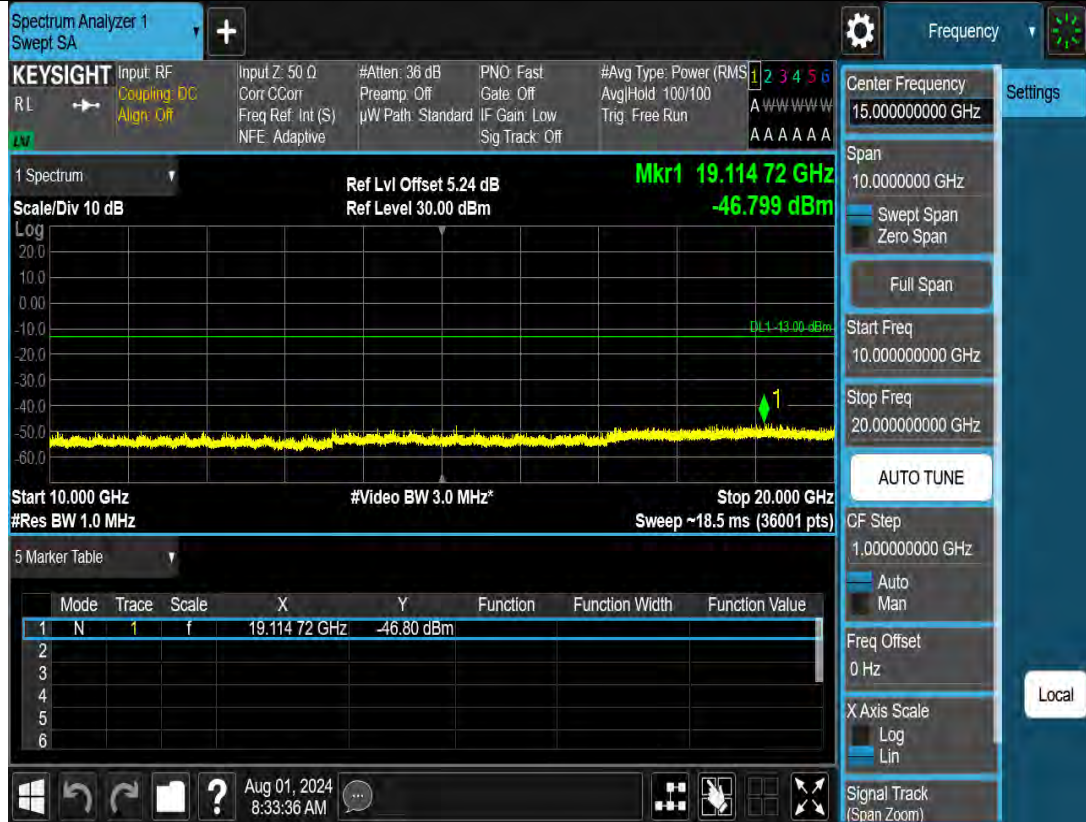
N66-5M-CSE-H-CP-OFDM-QPSK-1RB0-10GHz-20GHz



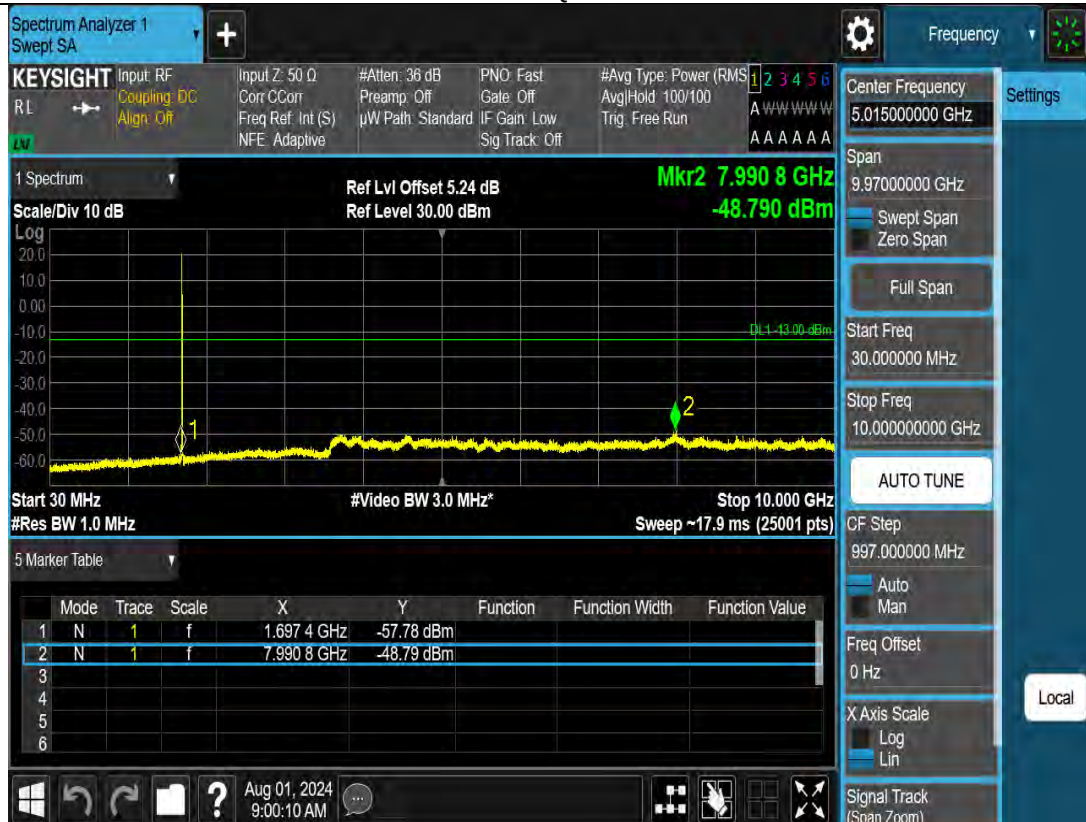
N66-10M-CSE-L-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz



N66-10M-CSE-L-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-20GHz



N66-10M-CSE-L-CP-OFDM-QPSK-1RB0-30MHz-10GHz



N66-10M-CSE-L-CP-OFDM-QPSK-1RB0-10GHz-20GHz



N66-10M-CSE-M-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz



