

# 99% & 26dB Bandwidth

## Test Result

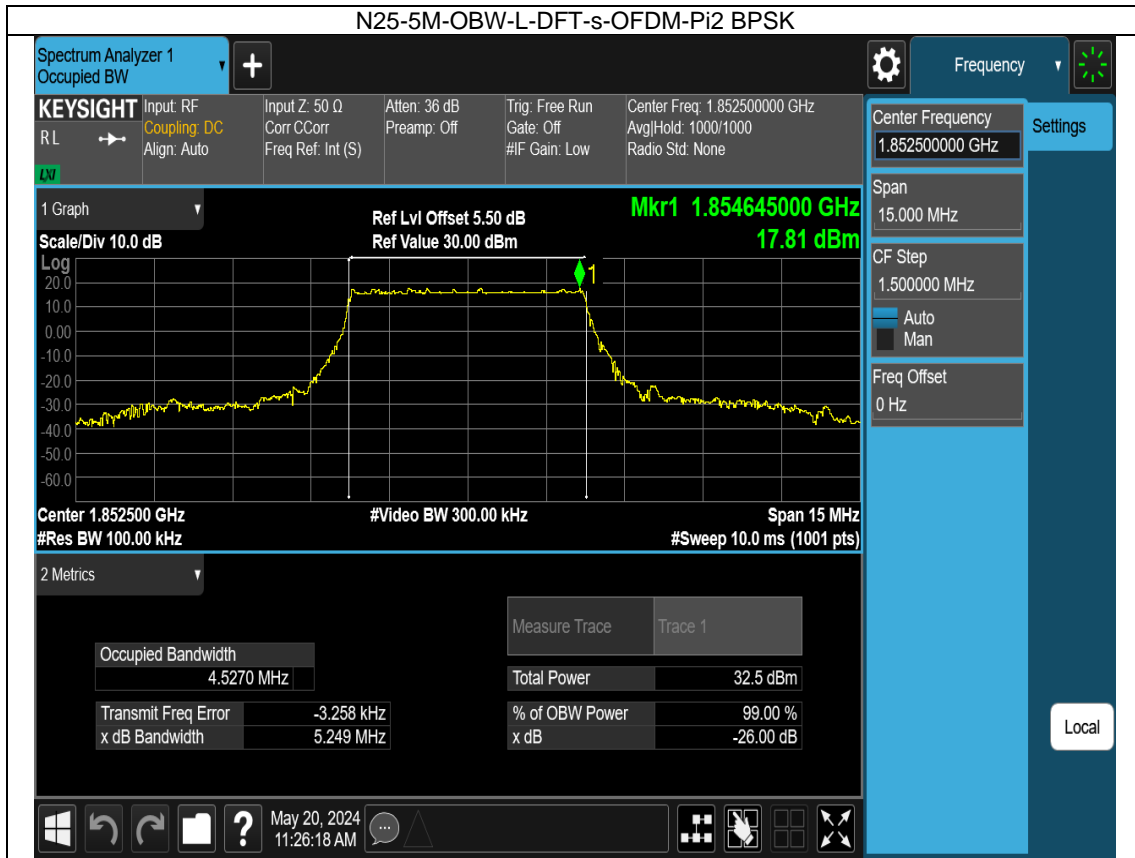
5G NR n25 SCS5MHz						
Modulation	CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	Low CH	Outer_Full	4.527	5.249	/	Pass
DFT-s-OFDM QPSK		Outer_Full	4.514	5.109	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	4.513	5.195	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	4.517	5.261	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	4.513	5.144	/	Pass
CP-OFDM QPSK		Outer_Full	4.516	5.215	/	Pass
CP-OFDM 16QAM		Outer_Full	4.468	5.151	/	Pass
CP-OFDM 64QAM		Outer_Full	4.495	5.199	/	Pass
CP-OFDM 256QAM		Outer_Full	4.487	5.092	/	Pass
DFT-s-OFDM PI/2 BPSK		Middle CH	Outer_Full	4.494	5.226	/
DFT-s-OFDM QPSK	Outer_Full		4.562	5.441	/	Pass
DFT-s-OFDM 16QAM	Outer_Full		4.514	5.257	/	Pass
DFT-s-OFDM 64QAM	Outer_Full		4.510	5.183	/	Pass
DFT-s-OFDM 256QAM	Outer_Full		4.509	5.153	/	Pass
CP-OFDM QPSK	Outer_Full		4.519	5.263	/	Pass
CP-OFDM 16QAM	Outer_Full		4.508	5.258	/	Pass
CP-OFDM 64QAM	Outer_Full		4.510	5.248	/	Pass
CP-OFDM 256QAM	Outer_Full		4.509	5.196	/	Pass
DFT-s-OFDM PI/2 BPSK	High CH		Outer_Full	4.495	5.057	/
DFT-s-OFDM QPSK		Outer_Full	4.532	5.213	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	4.528	5.248	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	4.507	5.127	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	4.537	5.161	/	Pass
CP-OFDM QPSK		Outer_Full	4.551	5.321	/	Pass
CP-OFDM 16QAM		Outer_Full	4.531	5.269	/	Pass
CP-OFDM 64QAM		Outer_Full	4.506	5.218	/	Pass
CP-OFDM 256QAM		Outer_Full	4.495	5.108	/	Pass

5G NR n25 SCS10MHz						
Modulation	CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	Low CH	Outer_Full	8.930	9.595	/	Pass
DFT-s-OFDM QPSK		Outer_Full	8.970	9.650	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	8.931	9.755	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	8.931	9.784	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	8.959	9.764	/	Pass
CP-OFDM QPSK		Outer_Full	9.280	10.10	/	Pass
CP-OFDM 16QAM		Outer_Full	9.311	10.28	/	Pass
CP-OFDM 64QAM		Outer_Full	9.293	10.07	/	Pass
CP-OFDM 256QAM		Outer_Full	9.311	10.11	/	Pass
DFT-s-OFDM PI/2 BPSK	Middle CH	Outer_Full	8.940	9.652	/	Pass
DFT-s-OFDM QPSK		Outer_Full	8.981	9.651	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	8.945	9.758	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	8.968	9.805	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	8.962	9.805	/	Pass
CP-OFDM QPSK		Outer_Full	9.300	10.12	/	Pass
CP-OFDM 16QAM		Outer_Full	9.306	10.06	/	Pass
CP-OFDM 64QAM		Outer_Full	8.944	9.792	/	Pass
CP-OFDM 256QAM		Outer_Full	8.968	9.769	/	Pass
DFT-s-OFDM PI/2 BPSK	High CH	Outer_Full	8.937	9.683	/	Pass
DFT-s-OFDM QPSK		Outer_Full	8.931	9.672	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	8.930	9.638	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	8.925	9.722	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	8.944	9.722	/	Pass
CP-OFDM QPSK		Outer_Full	9.292	10.10	/	Pass
CP-OFDM 16QAM		Outer_Full	8.979	9.892	/	Pass
CP-OFDM 64QAM		Outer_Full	8.925	9.659	/	Pass
CP-OFDM 256QAM		Outer_Full	8.935	9.641	/	Pass

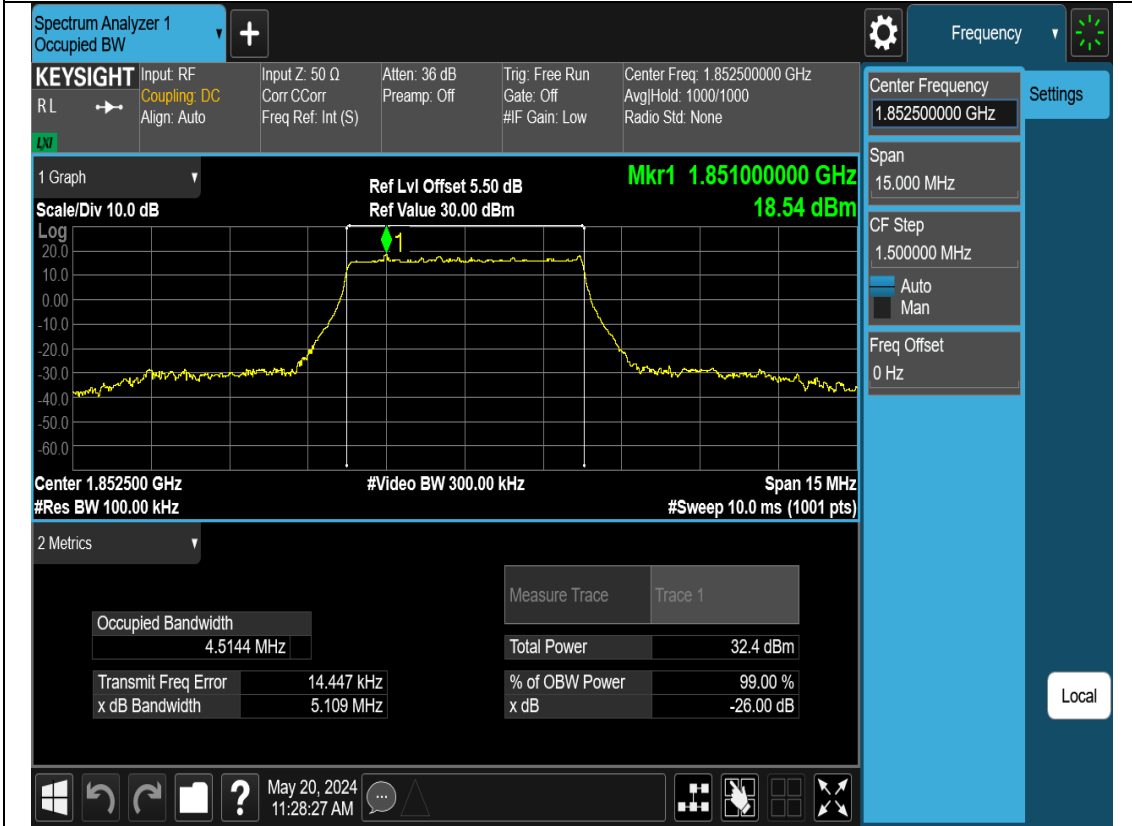
5G NR n25 SCS15MHz						
Modulation	CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	Low CH	Outer_Full	13.443	14.56	/	Pass
DFT-s-OFDM QPSK		Outer_Full	13.460	14.45	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	13.465	14.43	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	13.461	14.58	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	13.509	14.52	/	Pass
CP-OFDM QPSK		Outer_Full	14.200	15.23	/	Pass
CP-OFDM 16QAM		Outer_Full	14.167	15.23	/	Pass
CP-OFDM 64QAM		Outer_Full	14.128	15.15	/	Pass
CP-OFDM 256QAM		Outer_Full	14.119	15.18	/	Pass
DFT-s-OFDM PI/2 BPSK	Middle CH	Outer_Full	13.443	14.48	/	Pass
DFT-s-OFDM QPSK		Outer_Full	13.467	14.50	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	13.504	14.52	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	13.459	14.55	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	13.454	14.52	/	Pass
CP-OFDM QPSK		Outer_Full	14.206	15.19	/	Pass
CP-OFDM 16QAM		Outer_Full	13.430	14.46	/	Pass
CP-OFDM 64QAM		Outer_Full	13.424	14.55	/	Pass
CP-OFDM 256QAM		Outer_Full	13.407	14.59	/	Pass
DFT-s-OFDM PI/2 BPSK	High CH	Outer_Full	13.405	14.34	/	Pass
DFT-s-OFDM QPSK		Outer_Full	13.425	14.48	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	13.484	14.58	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	13.424	14.49	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	13.424	14.56	/	Pass
CP-OFDM QPSK		Outer_Full	14.122	15.20	/	Pass
CP-OFDM 16QAM		Outer_Full	13.397	14.52	/	Pass
CP-OFDM 64QAM		Outer_Full	13.404	14.38	/	Pass
CP-OFDM 256QAM		Outer_Full	13.366	14.51	/	Pass

5G NR n25 SCS20MHz						
Modulation	CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	Low CH	Outer_Full	17.914	19.12	/	Pass
DFT-s-OFDM QPSK		Outer_Full	17.917	19.03	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	17.930	18.95	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	17.856	19.08	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	17.874	19.02	/	Pass
CP-OFDM QPSK		Outer_Full	18.917	20.02	/	Pass
CP-OFDM 16QAM		Outer_Full	18.941	19.98	/	Pass
CP-OFDM 64QAM		Outer_Full	18.908	20.04	/	Pass
CP-OFDM 256QAM		Outer_Full	18.924	20.12	/	Pass
DFT-s-OFDM PI/2 BPSK	Middle CH	Outer_Full	17.927	18.97	/	Pass
DFT-s-OFDM QPSK		Outer_Full	17.856	18.89	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	17.905	19.00	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	17.950	19.03	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	17.850	19.12	/	Pass
CP-OFDM QPSK		Outer_Full	18.917	20.10	/	Pass
CP-OFDM 16QAM		Outer_Full	17.869	19.03	/	Pass
CP-OFDM 64QAM		Outer_Full	17.818	18.96	/	Pass
CP-OFDM 256QAM		Outer_Full	17.872	18.94	/	Pass
DFT-s-OFDM PI/2 BPSK	High CH	Outer_Full	17.854	19.06	/	Pass
DFT-s-OFDM QPSK		Outer_Full	17.827	18.88	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	17.862	19.01	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	17.796	18.94	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	17.831	19.03	/	Pass
CP-OFDM QPSK		Outer_Full	18.874	20.10	/	Pass
CP-OFDM 16QAM		Outer_Full	17.817	19.00	/	Pass
CP-OFDM 64QAM		Outer_Full	17.788	18.92	/	Pass
CP-OFDM 256QAM		Outer_Full	17.812	18.95	/	Pass

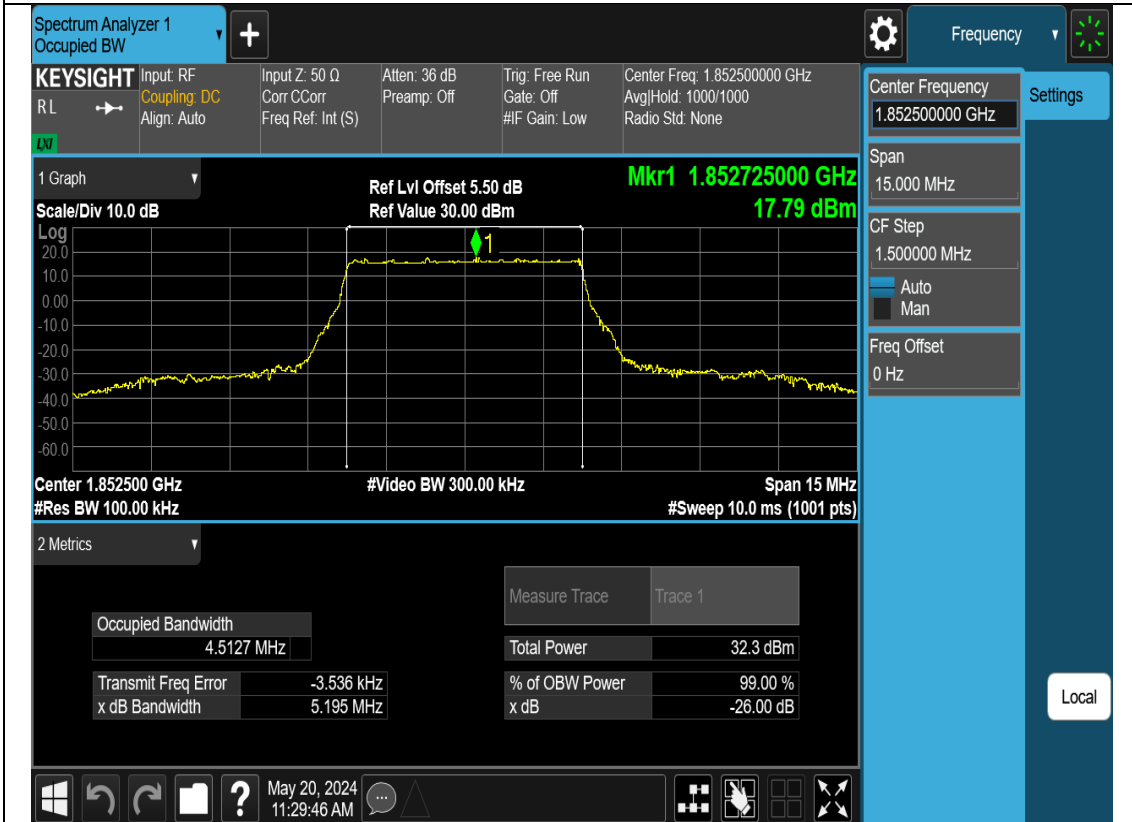
# Test graph



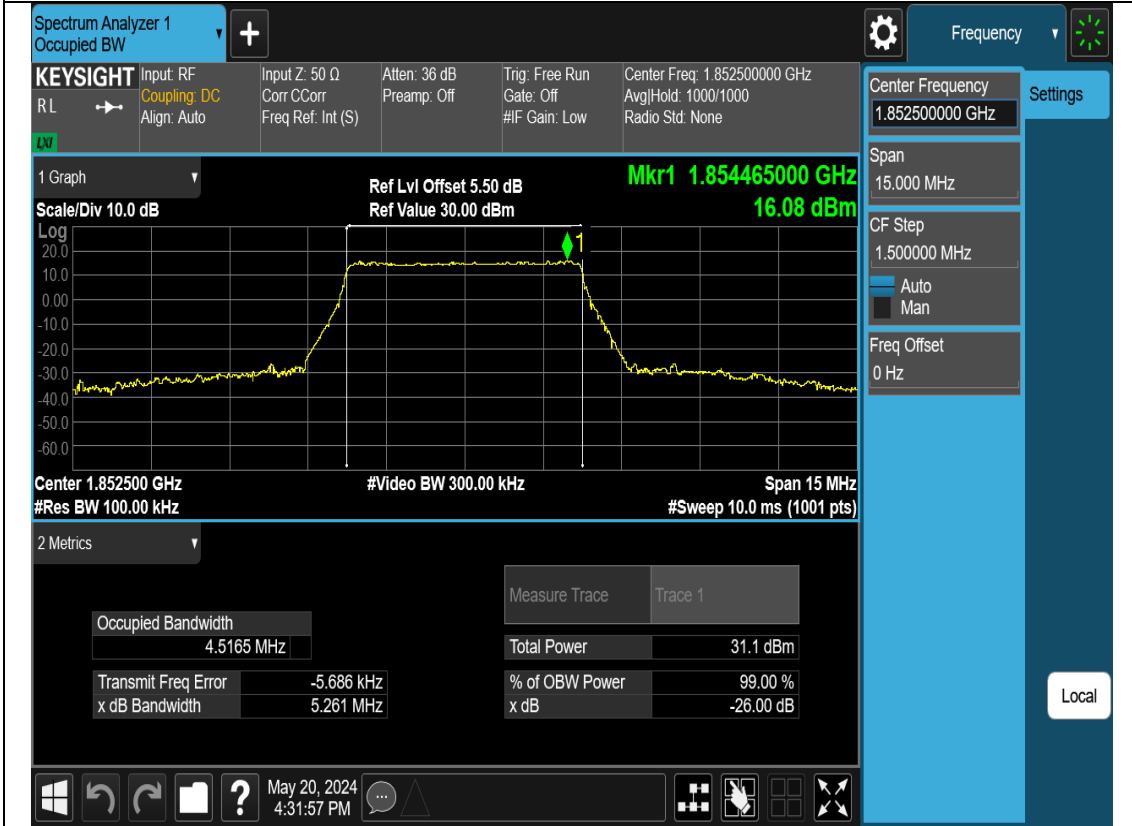
N25-5M-OBW-L-DFT-s-OFDM-QPSK



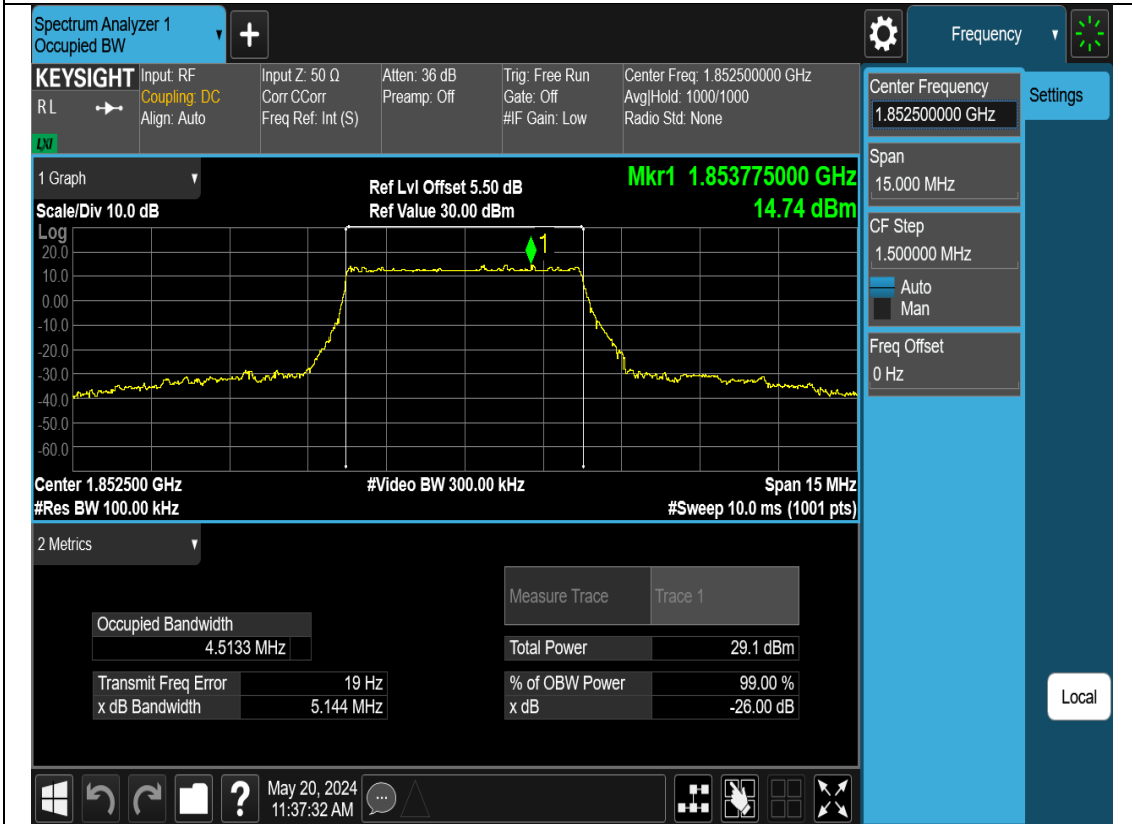
N25-5M-OBW-L-DFT-s-OFDM-16QAM



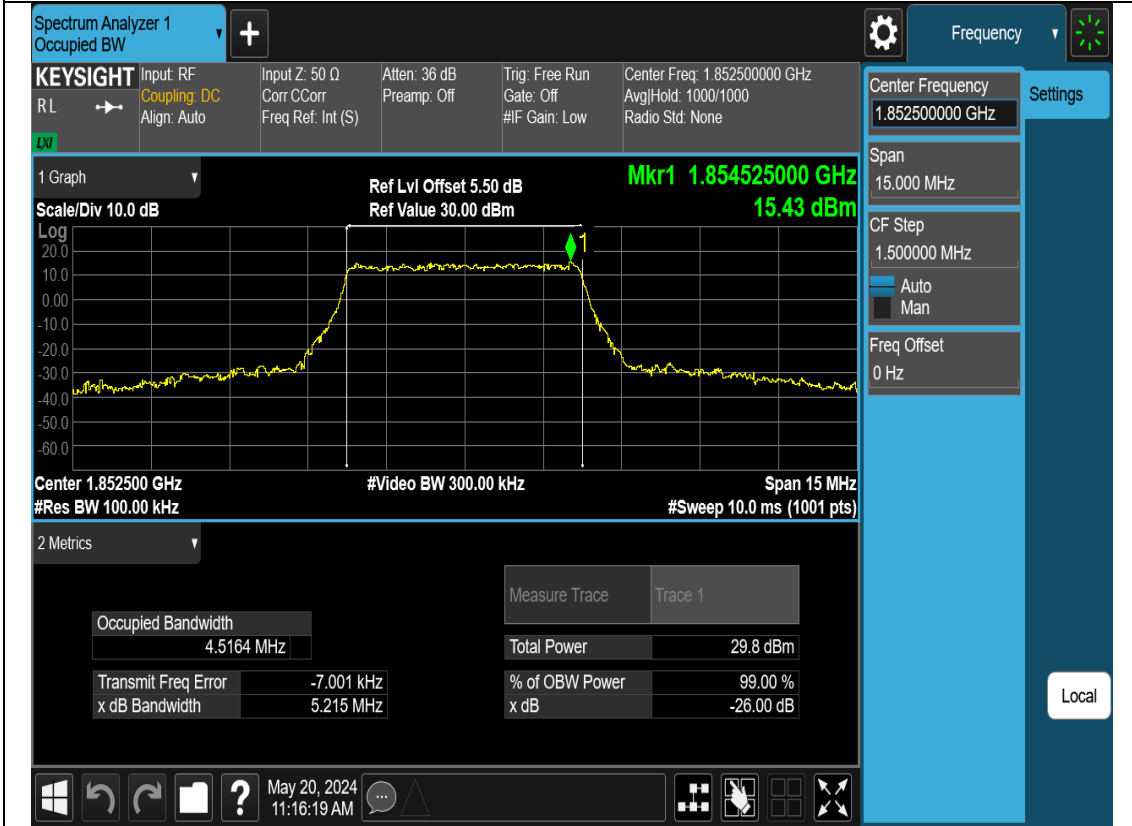
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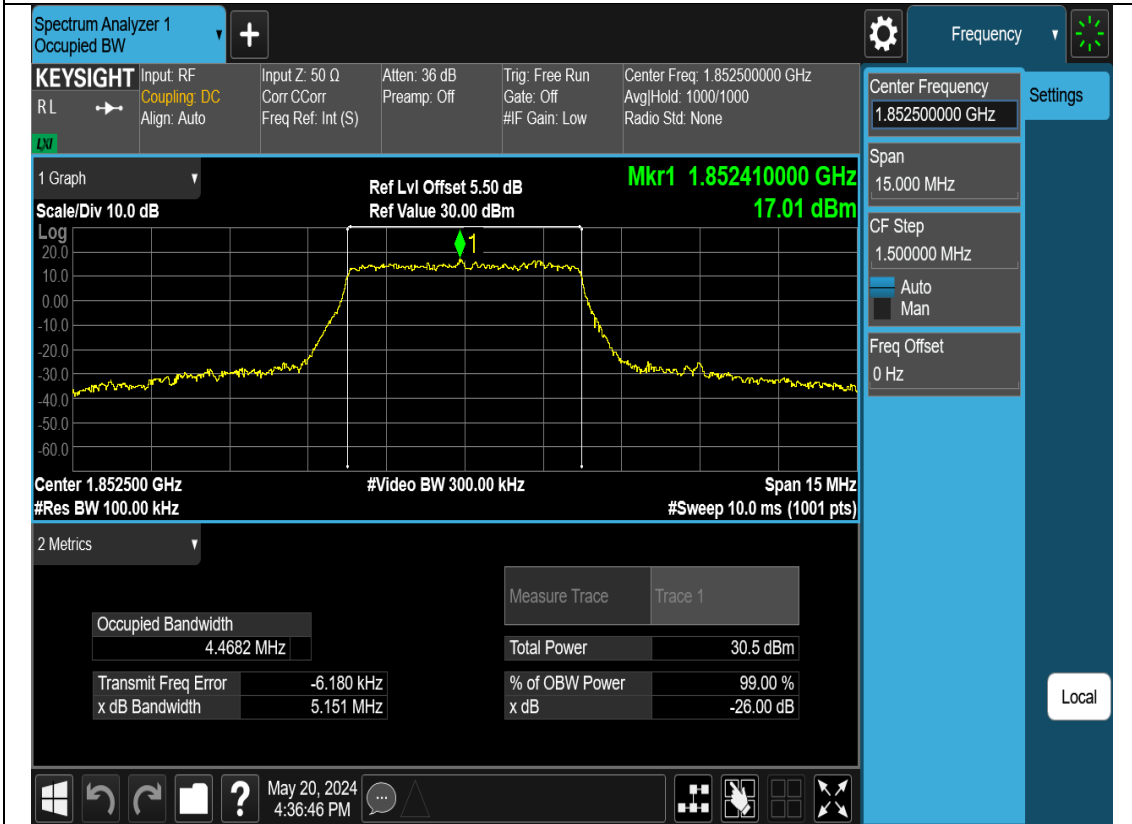
N25-5M-OBW-L-DFT-s-OFDM-256QAM



N25-5M-OBW-L-CP-OFDM-QPSK

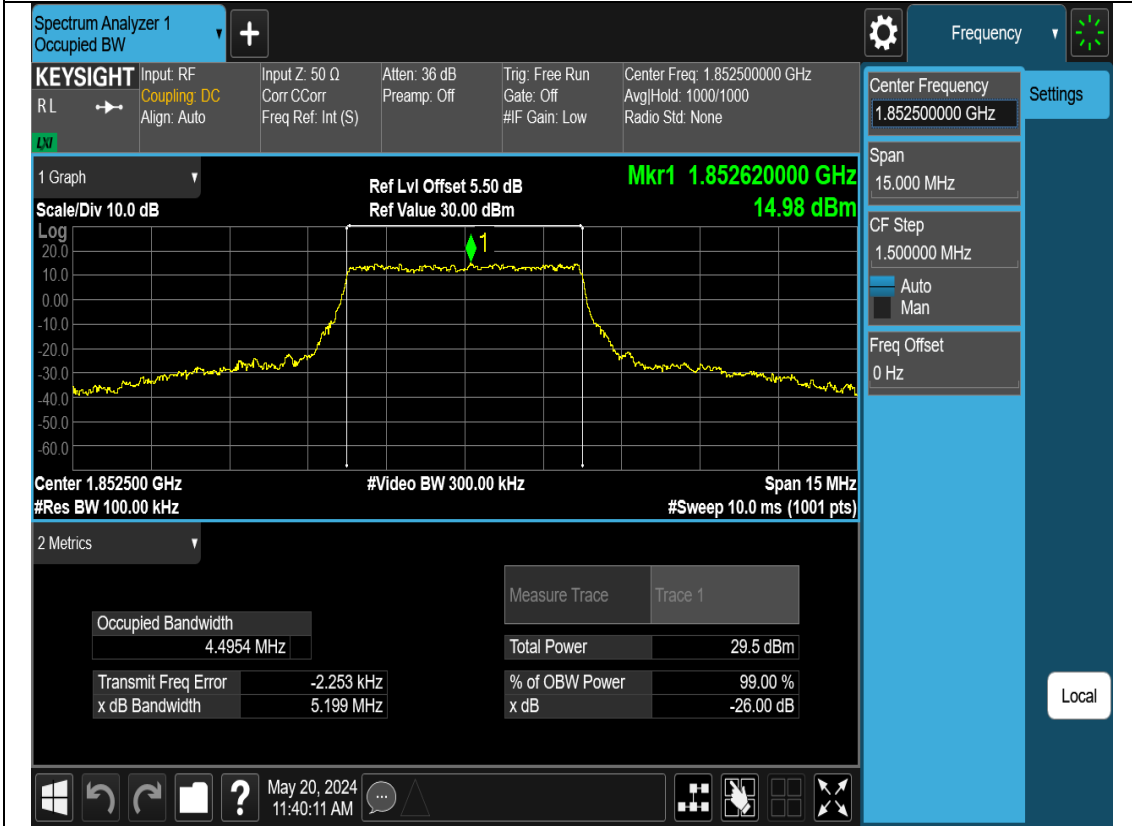


N25-5M-OBW-L-CP-OFDM-16QAM

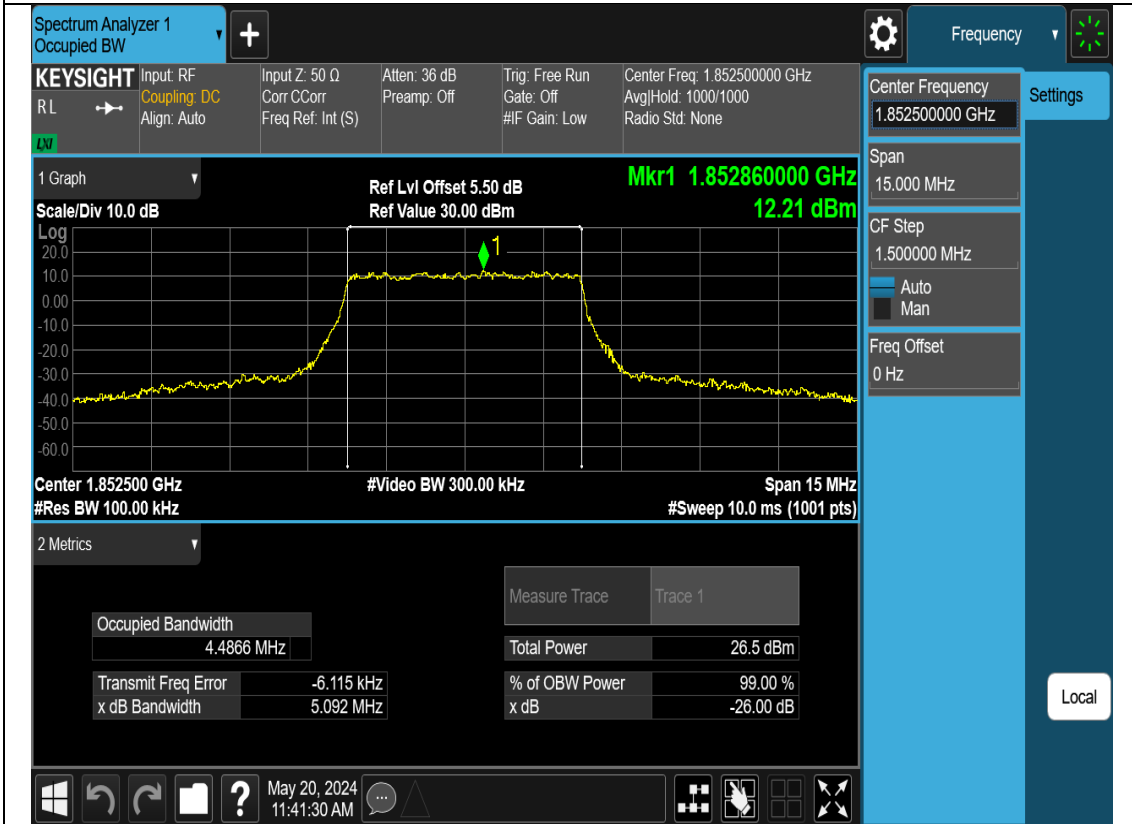




N25-5M-OBW-L-CP-OFDM-64QAM



N25-5M-OBW-L-CP-OFDM-256QAM



N25-5M-OBW-M-DFT-s-OFDM-Pi2 BPSK

Spectrum Analyzer 1 Occupied BW

KEYSIGHT Input RF Input Z: 50 Ω Atten: 36 dB Trig: Free Run Center Freq: 1.88250000 GHz  
 RL Coupling: DC Corr: CCorr Gate: Off Avg/Hold: 1000/1000  
 Align: Auto Freq Ref: Int (S) Preamp: Off #F Gain: Low Radio Std: None

1 Graph Scale/Div 10.0 dB Ref Lvl Offset 5.50 dB Mkr1 1.883610000 GHz  
 Ref Value 30.00 dBm 18.57 dBm

Center 1.882500 GHz #Video BW 300.00 kHz Span 15 MHz  
 #Res BW 100.00 kHz #Sweep 10.0 ms (1001 pts)

2 Metrics

Measure Trace		Trace 1	
Occupied Bandwidth	4.4943 MHz	Total Power	32.7 dBm
Transmit Freq Error	-3.388 kHz	% of OBW Power	99.00 %
x dB Bandwidth	5.226 MHz	x dB	-26.00 dB

May 20, 2024 10:59:59 AM

N25-5M-OBW-M-DFT-s-OFDM-QPSK

Spectrum Analyzer 1 Occupied BW

KEYSIGHT Input RF Input Z: 50 Ω Atten: 36 dB Trig: Free Run Center Freq: 1.88250000 GHz  
 RL Coupling: DC Corr: CCorr Gate: Off Avg/Hold: 1000/1000  
 Align: Auto Freq Ref: Int (S) Preamp: Off #F Gain: Low Radio Std: None

1 Graph Scale/Div 10.0 dB Ref Lvl Offset 5.50 dB Mkr1 1.884690000 GHz  
 Ref Value 30.00 dBm 18.10 dBm

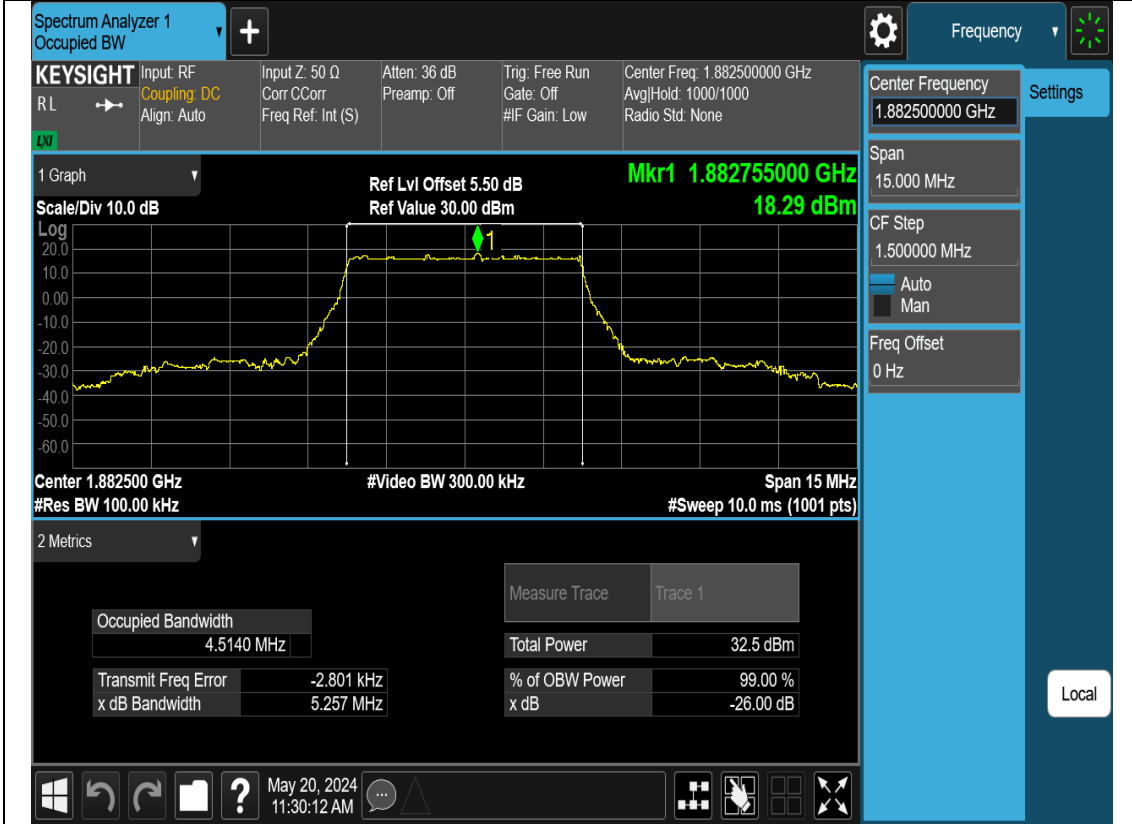
Center 1.882500 GHz #Video BW 300.00 kHz Span 15 MHz  
 #Res BW 100.00 kHz #Sweep 10.0 ms (1001 pts)

2 Metrics

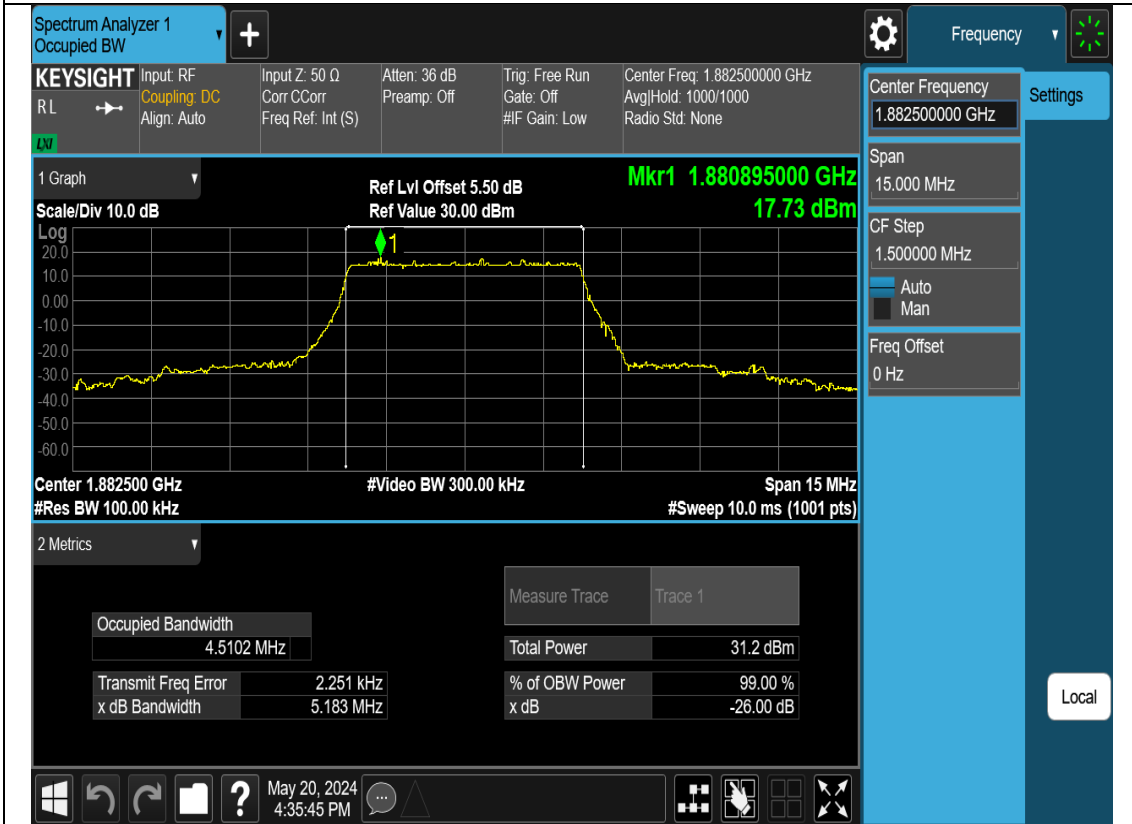
Measure Trace		Trace 1	
Occupied Bandwidth	4.5617 MHz	Total Power	32.5 dBm
Transmit Freq Error	26.670 kHz	% of OBW Power	99.00 %
x dB Bandwidth	5.441 MHz	x dB	-26.00 dB

May 20, 2024 11:28:53 AM

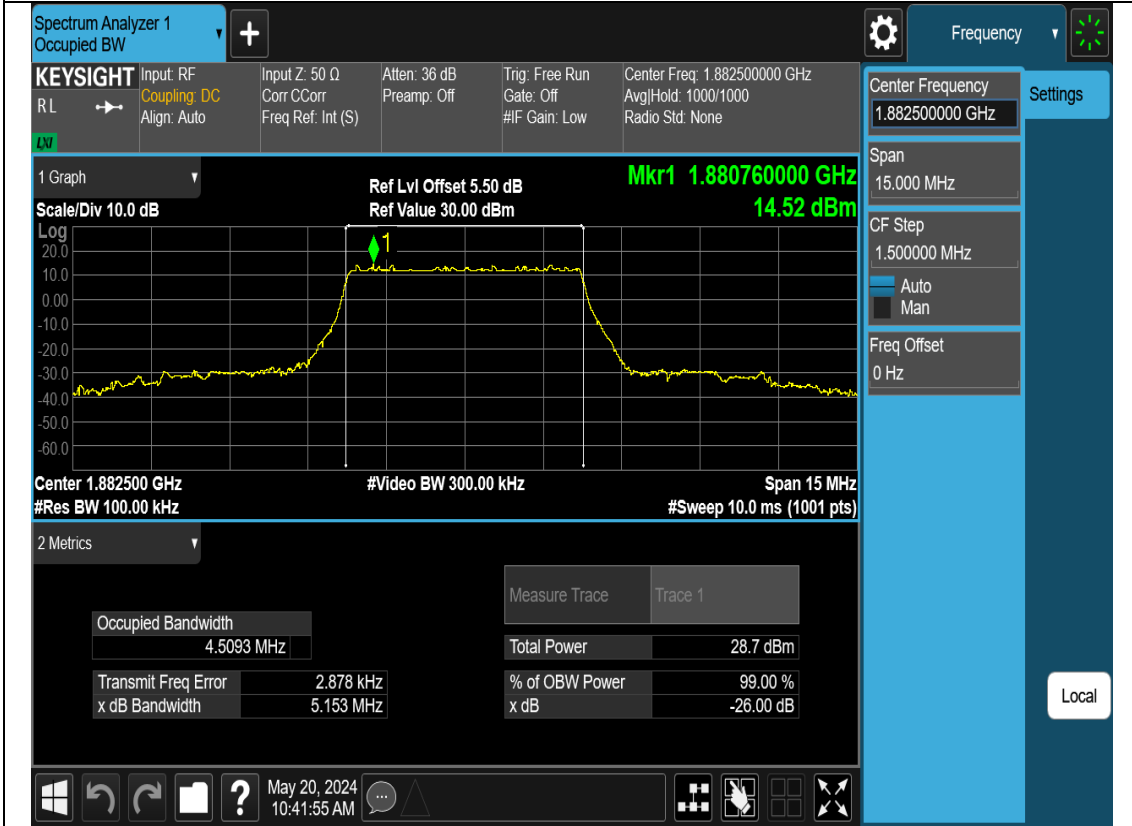
N25-5M-OBW-M-DFT-s-OFDM-16QAM



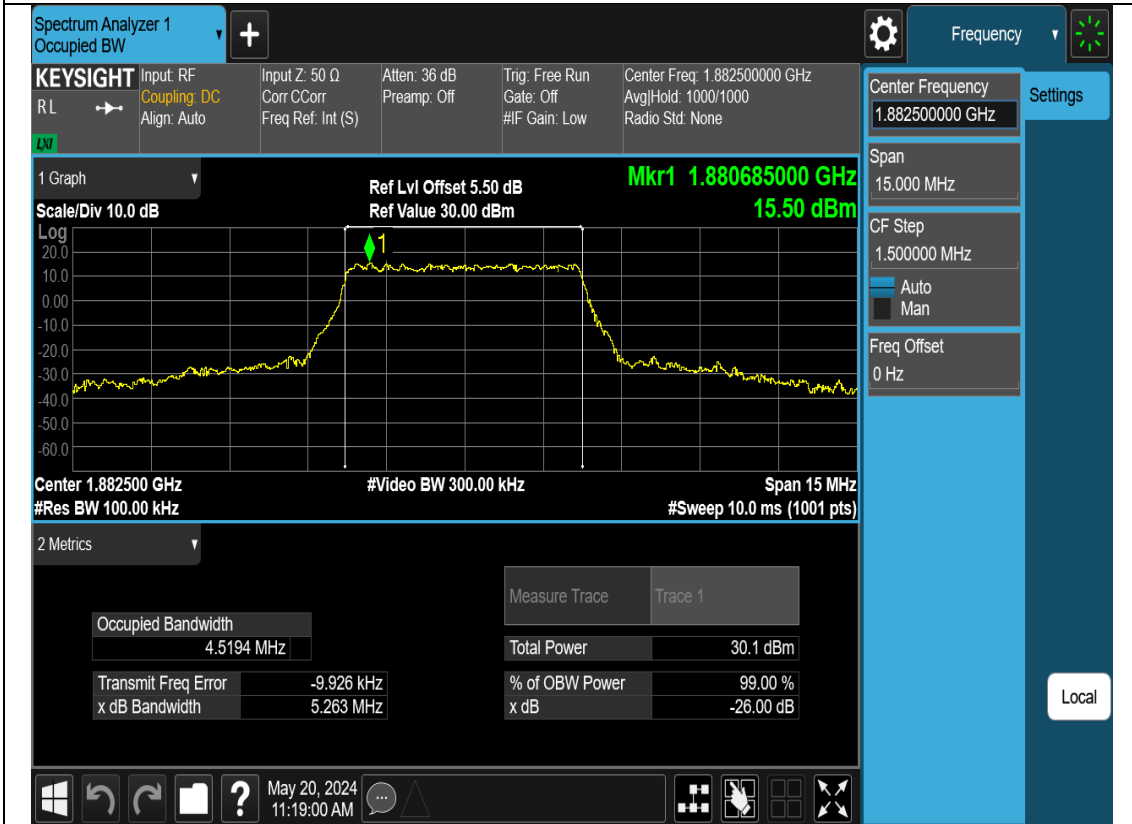
N25-5M-OBW-M-DFT-s-OFDM-64QAM



N25-5M-OBW-M-DFT-s-OFDM-256QAM



N25-5M-OBW-M-CP-OFDM-QPSK



N25-5M-OBW-M-CP-OFDM-16QAM

Spectrum Analyzer 1 Occupied BW

KEYSIGHT Input RF Input Z: 50 Ω Atten: 36 dB Trig: Free Run Center Freq: 1.882500000 GHz  
 RL Coupling: DC Corr: CCorr Preamp: Off Gate: Off Avg/Hold: 1000/1000  
 Align: Auto Freq Ref: Int (S) #F Gain: Low Radio Std: None

1 Graph Scale/Div 10.0 dB Ref Lvl Offset 5.50 dB Mkr1 1.882830000 GHz  
 Ref Value 30.00 dBm 15.61 dBm

Center 1.882500 GHz #Video BW 300.00 kHz Span 15 MHz  
 #Res BW 100.00 kHz #Sweep 10.0 ms (1001 pts)

2 Metrics

Measure Trace		Trace 1	
Occupied Bandwidth	4.5076 MHz	Total Power	30.0 dBm
Transmit Freq Error	-15.835 kHz	% of OBW Power	99.00 %
x dB Bandwidth	5.258 MHz	x dB	-26.00 dB

Windows taskbar: May 20, 2024 11:39:18 AM

N25-5M-OBW-M-CP-OFDM-64QAM

Spectrum Analyzer 1 Occupied BW

KEYSIGHT Input RF Input Z: 50 Ω Atten: 36 dB Trig: Free Run Center Freq: 1.882500000 GHz  
 RL Coupling: DC Corr: CCorr Preamp: Off Gate: Off Avg/Hold: 1000/1000  
 Align: Auto Freq Ref: Int (S) #F Gain: Low Radio Std: None

1 Graph Scale/Div 10.0 dB Ref Lvl Offset 5.50 dB Mkr1 1.882635000 GHz  
 Ref Value 30.00 dBm 15.21 dBm

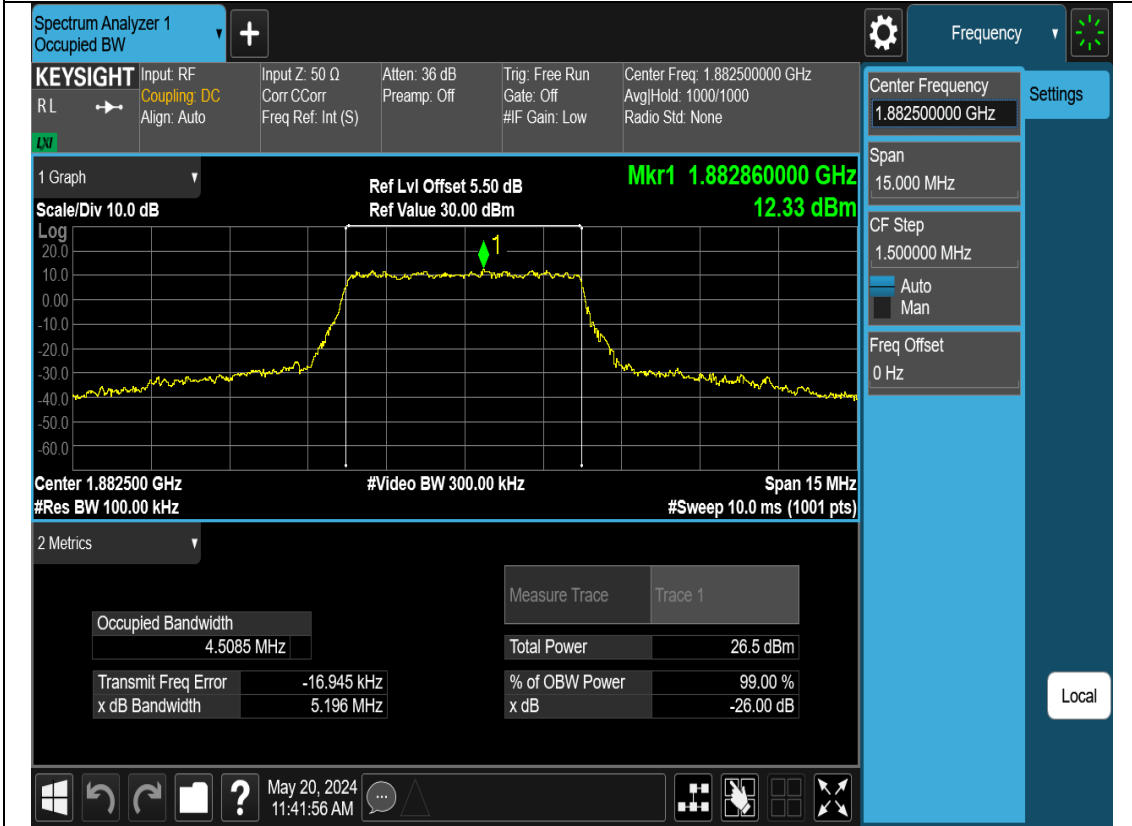
Center 1.882500 GHz #Video BW 300.00 kHz Span 15 MHz  
 #Res BW 100.00 kHz #Sweep 10.0 ms (1001 pts)

2 Metrics

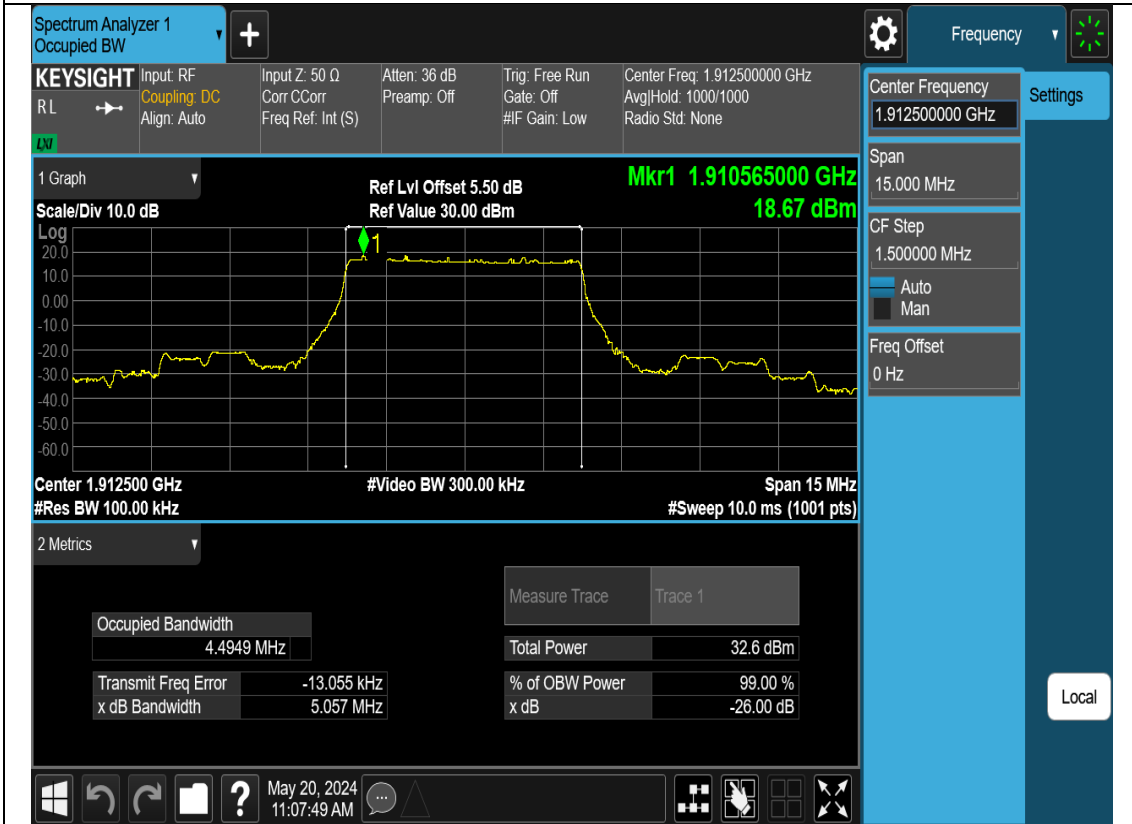
Measure Trace		Trace 1	
Occupied Bandwidth	4.5097 MHz	Total Power	29.6 dBm
Transmit Freq Error	-3.502 kHz	% of OBW Power	99.00 %
x dB Bandwidth	5.248 MHz	x dB	-26.00 dB

Windows taskbar: May 20, 2024 11:40:37 AM

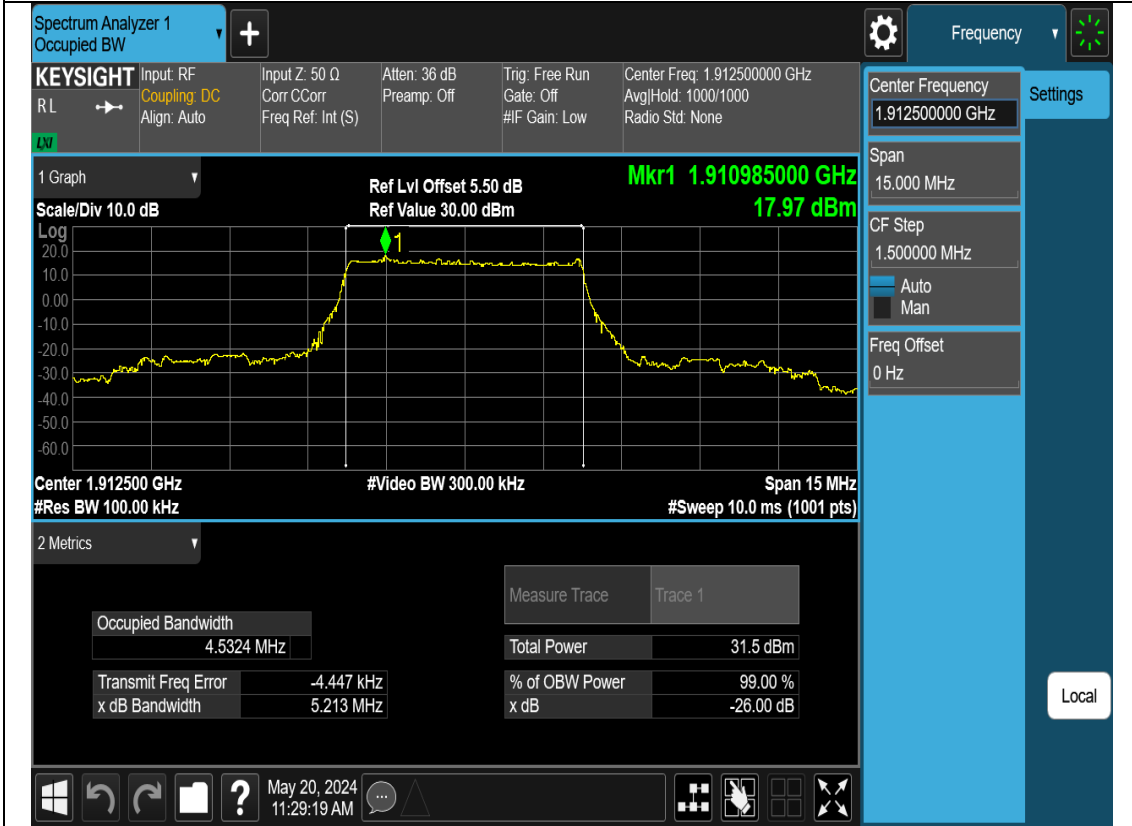
N25-5M-OBW-M-CP-OFDM-256QAM



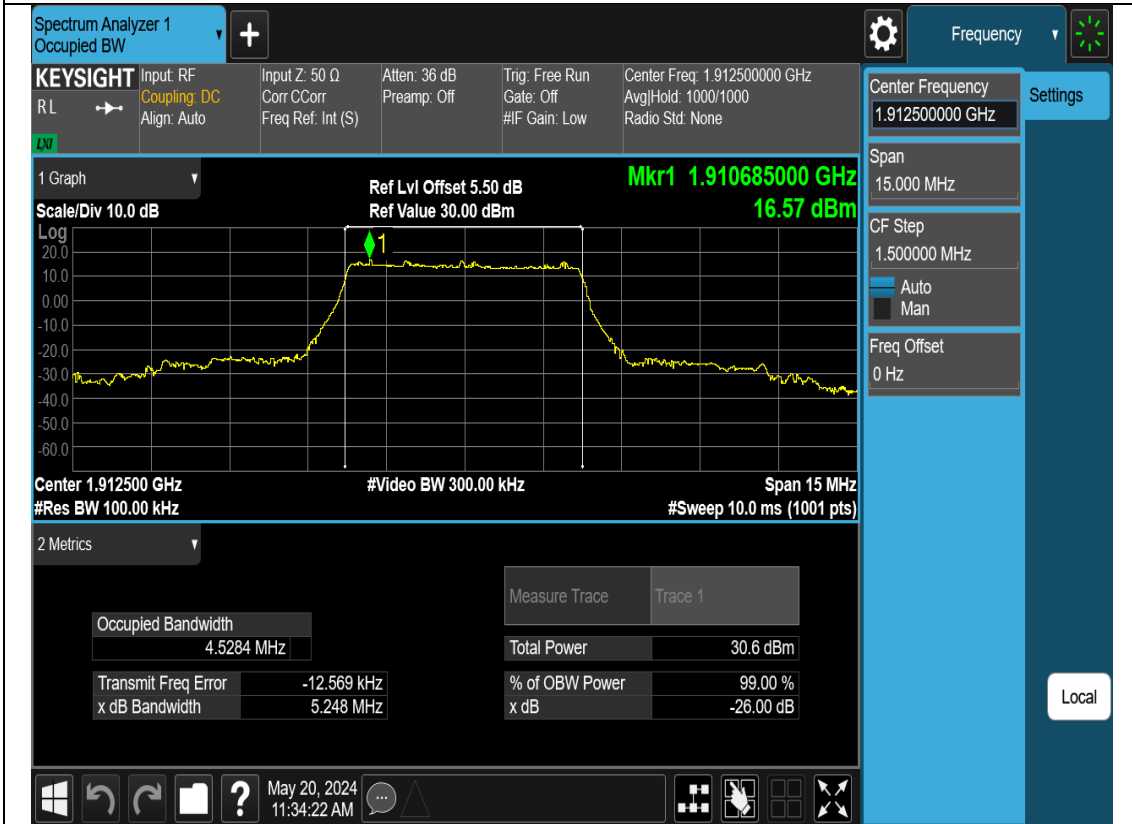
N25-5M-OBW-H-DFT-s-OFDM-Pi2 BPSK



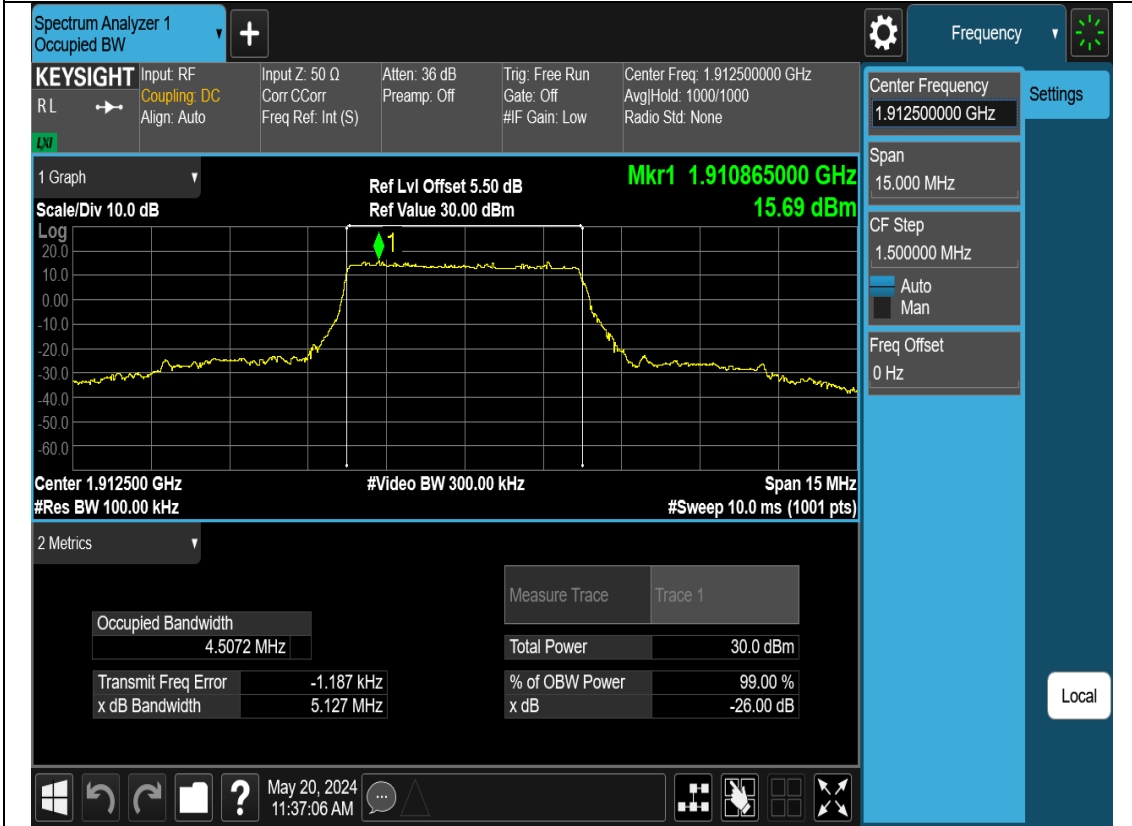
N25-5M-OBW-H-DFT-s-OFDM-QPSK



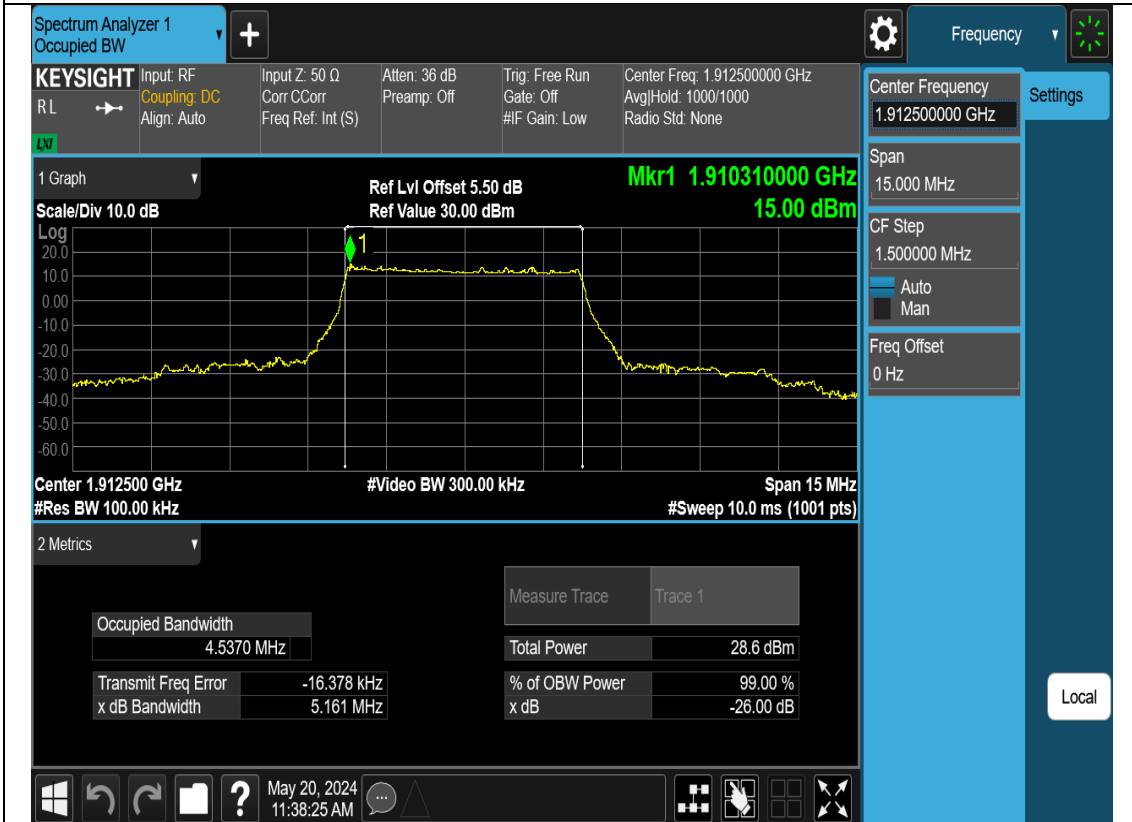
N25-5M-OBW-H-DFT-s-OFDM-16QAM



N25-5M-OBW-H-DFT-s-OFDM-64QAM



N25-5M-OBW-H-DFT-s-OFDM-256QAM





N25-5M-OBW-H-CP-OFDM-QPSK

Spectrum Analyzer 1  
Occupied BW

KEYSIGHT Input RF Input Z: 50 Ω Atten: 36 dB Trig: Free Run Center Freq: 1.91250000 GHz  
 RL Coupling: DC Corr: CCorr Preamp: Off Gate: Off Avg/Hold: 1000/1000  
 Align: Auto Freq Ref: Int (S) #F Gain: Low Radio Std: None

1 Graph  
 Scale/Div 10.0 dB  
 Log  
 Ref Lvl Offset 5.50 dB Mkr1 1.910445000 GHz  
 Ref Value 30.00 dBm 15.52 dBm

Center 1.912500 GHz #Res BW 100.00 kHz #Video BW 300.00 kHz Span 15 MHz #Sweep 10.0 ms (1001 pts)

2 Metrics

Measure Trace		Trace 1	
Occupied Bandwidth	4.5506 MHz	Total Power	29.4 dBm
Transmit Freq Error	-45.570 kHz	% of OBW Power	99.00 %
x dB Bandwidth	5.321 MHz	x dB	-26.00 dB

May 20, 2024 11:20:57 AM

N25-5M-OBW-H-CP-OFDM-16QAM

Spectrum Analyzer 1  
Occupied BW

KEYSIGHT Input RF Input Z: 50 Ω Atten: 36 dB Trig: Free Run Center Freq: 1.91250000 GHz  
 RL Coupling: DC Corr: CCorr Preamp: Off Gate: Off Avg/Hold: 1000/1000  
 Align: Auto Freq Ref: Int (S) #F Gain: Low Radio Std: None

1 Graph  
 Scale/Div 10.0 dB  
 Log  
 Ref Lvl Offset 5.50 dB Mkr1 1.911555000 GHz  
 Ref Value 30.00 dBm 14.85 dBm

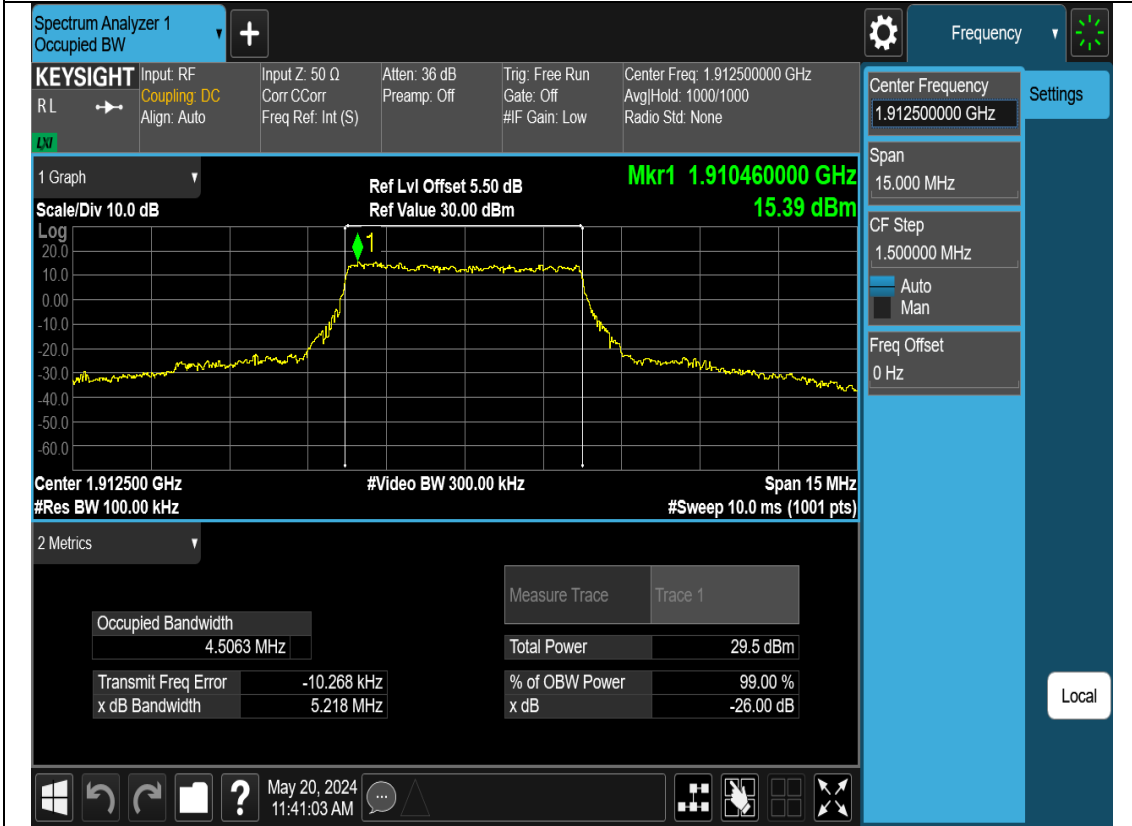
Center 1.912500 GHz #Res BW 100.00 kHz #Video BW 300.00 kHz Span 15 MHz #Sweep 10.0 ms (1001 pts)

2 Metrics

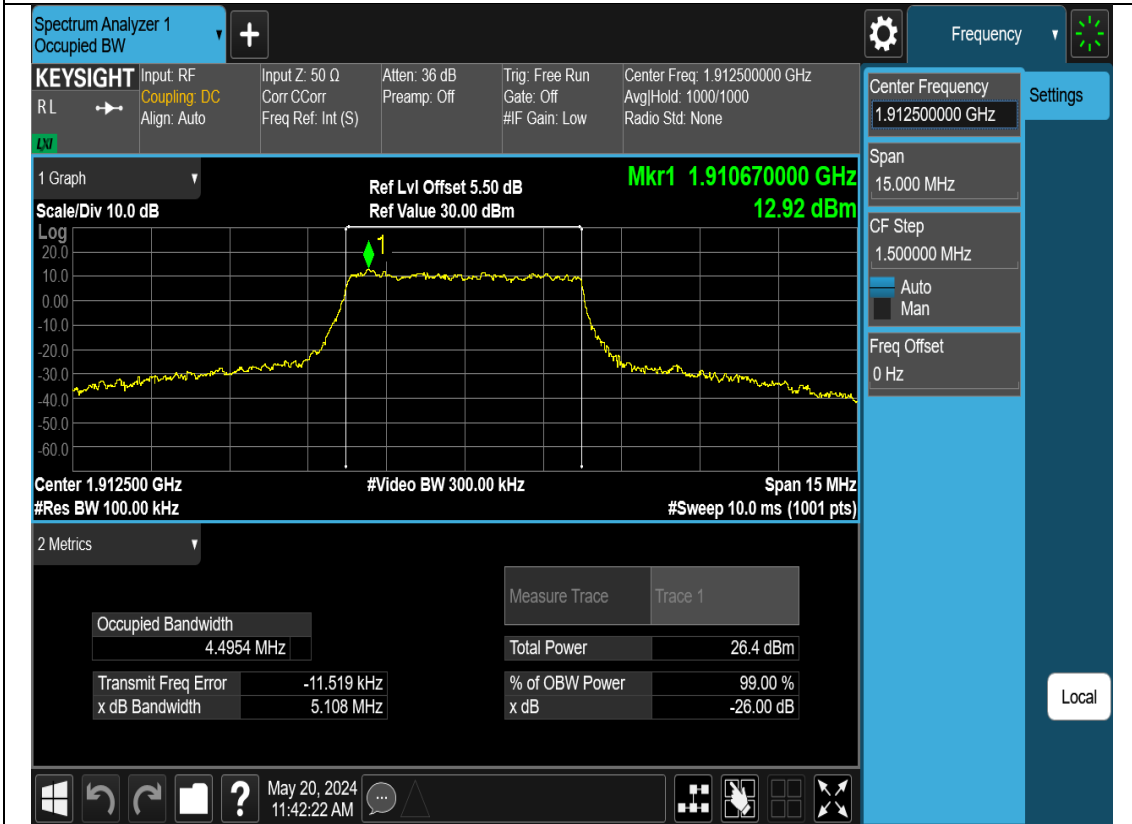
Measure Trace		Trace 1	
Occupied Bandwidth	4.5308 MHz	Total Power	29.5 dBm
Transmit Freq Error	-16.431 kHz	% of OBW Power	99.00 %
x dB Bandwidth	5.269 MHz	x dB	-26.00 dB

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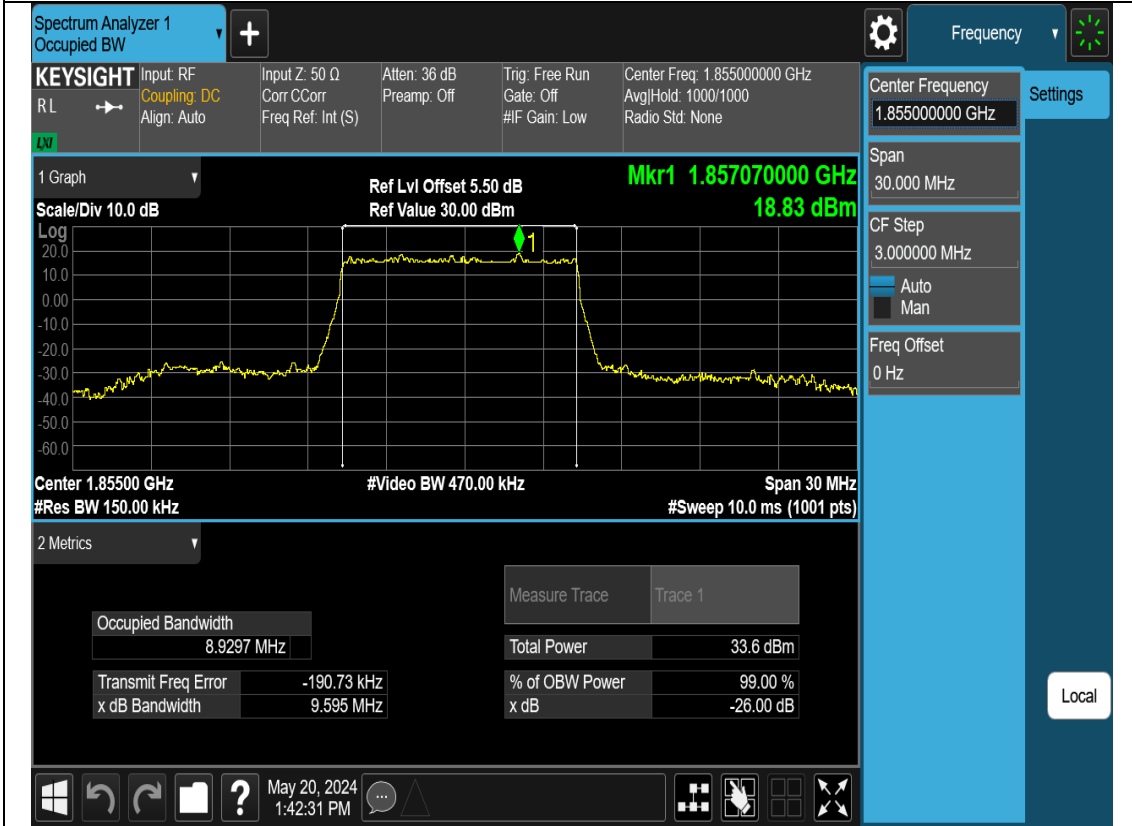
N25-5M-OBW-H-CP-OFDM-64QAM



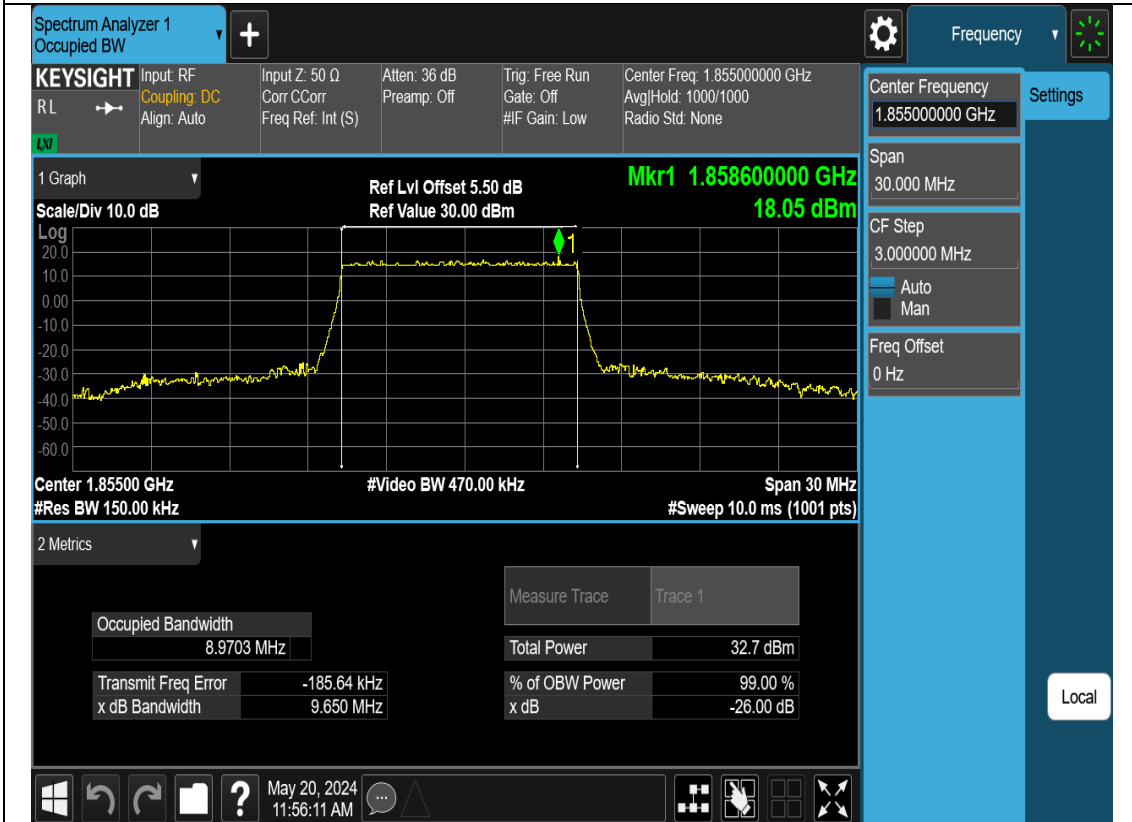
N25-5M-OBW-H-CP-OFDM-256QAM



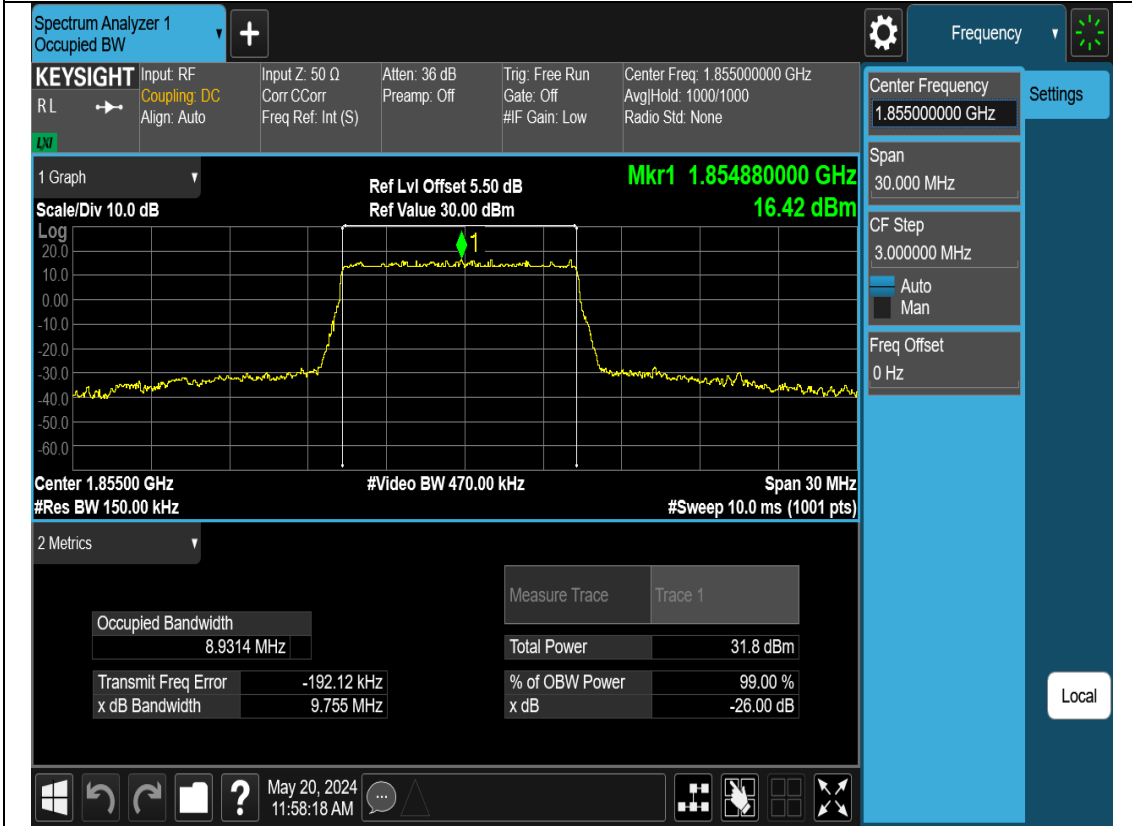
N25-10M-OBW-L-DFT-s-OFDM-Pi2 BPSK



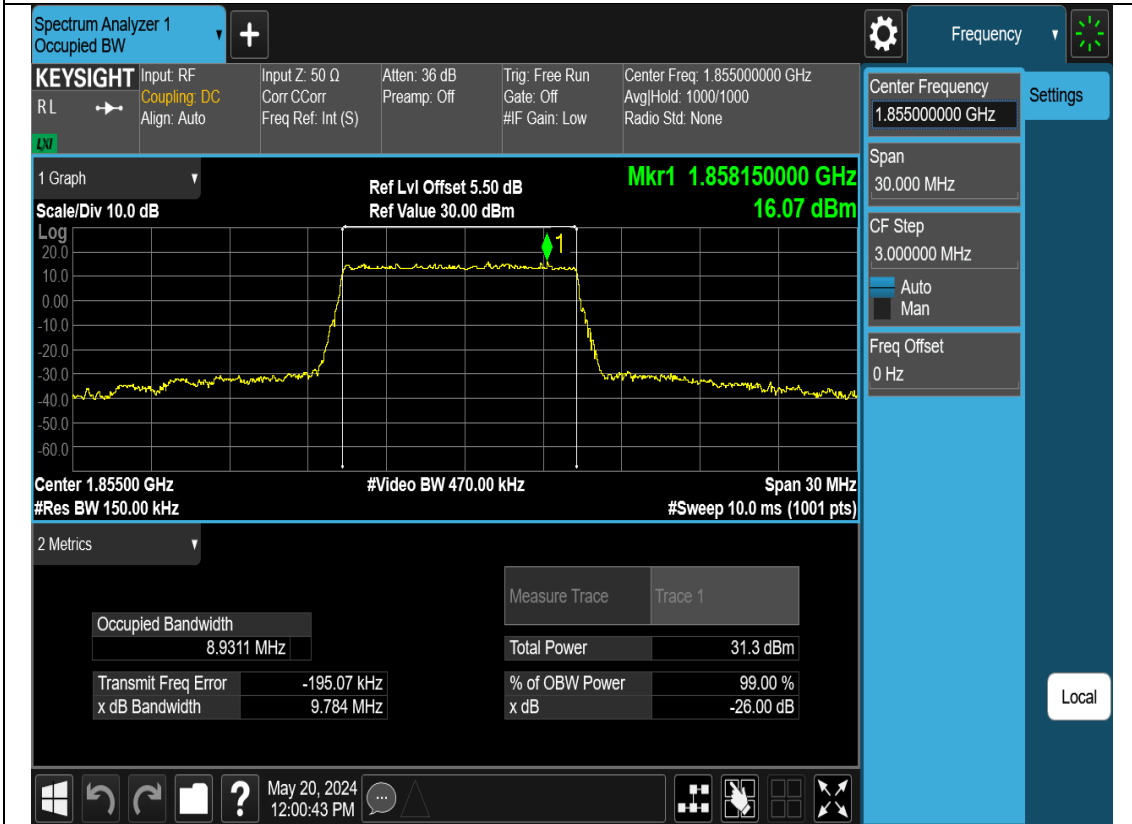
N25-10M-OBW-L-DFT-s-OFDM-QPSK



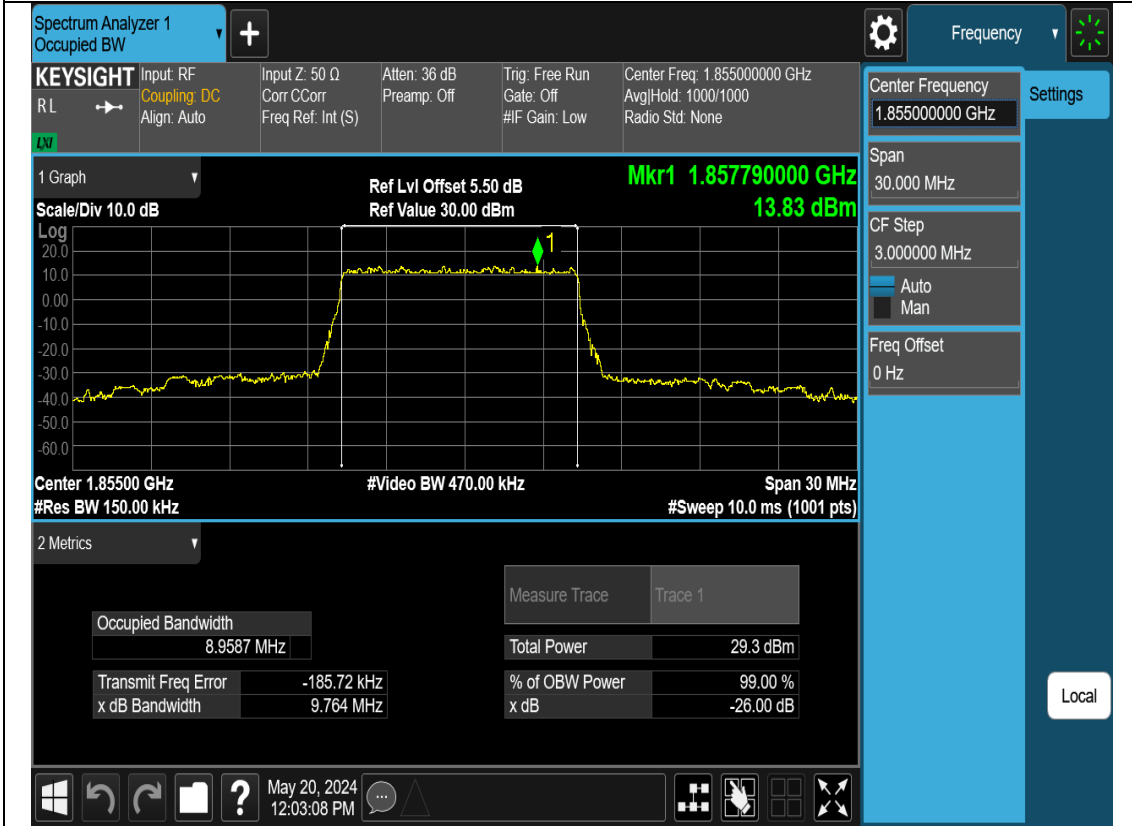
N25-10M-OBW-L-DFT-s-OFDM-16QAM



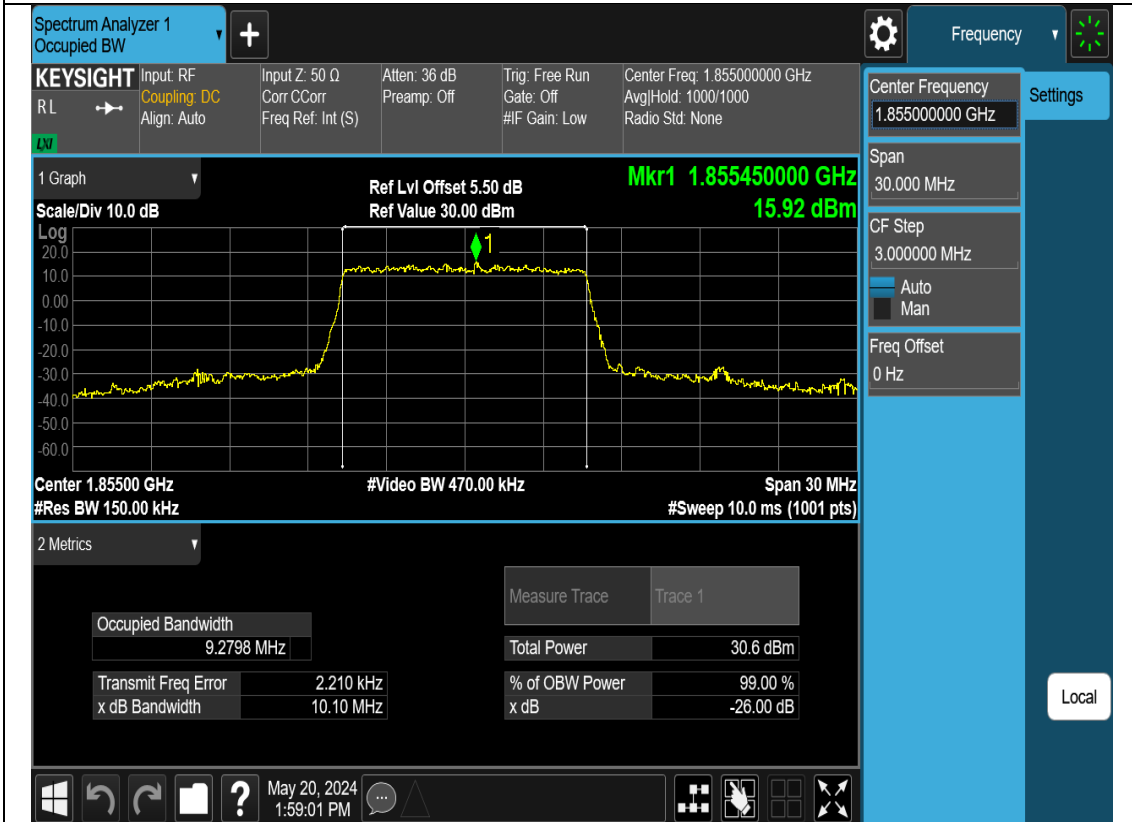
N25-10M-OBW-L-DFT-s-OFDM-64QAM



N25-10M-OBW-L-DFT-s-OFDM-256QAM



N25-10M-OBW-L-CP-OFDM-QPSK



N25-10M-OBW-L-CP-OFDM-16QAM

Spectrum Analyzer 1  
Occupied BW

KEYSIGHT Input RF Input Z: 50 Ω Atten: 36 dB Trig: Free Run Center Freq: 1.85500000 GHz  
 RL Coupling: DC Corr: C Corr Gate: Off Avg/Hold: 1000/1000  
 Align: Auto Freq Ref: Int (S) Preamp: Off #F Gain: Low Radio Std: None

1 Graph  
 Scale/Div 10.0 dB  
 Log  
 Ref Lvl Offset 5.50 dB Mkr1 1.858420000 GHz  
 Ref Value 30.00 dBm 14.83 dBm

Center 1.85500 GHz #Res BW 150.00 kHz #Video BW 470.00 kHz Span 30 MHz #Sweep 10.0 ms (1001 pts)

2 Metrics

Measure Trace		Trace 1	
Occupied Bandwidth	9.3111 MHz	Total Power	30.6 dBm
Transmit Freq Error	-17.370 kHz	% of OBW Power	99.00 %
x dB Bandwidth	10.28 MHz	x dB	-26.00 dB

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N25-10M-OBW-L-CP-OFDM-64QAM

Spectrum Analyzer 1  
Occupied BW

KEYSIGHT Input RF Input Z: 50 Ω Atten: 36 dB Trig: Free Run Center Freq: 1.85500000 GHz  
 RL Coupling: DC Corr: C Corr Gate: Off Avg/Hold: 1000/1000  
 Align: Auto Freq Ref: Int (S) Preamp: Off #F Gain: Low Radio Std: None

1 Graph  
 Scale/Div 10.0 dB  
 Log  
 Ref Lvl Offset 5.50 dB Mkr1 1.857940000 GHz  
 Ref Value 30.00 dBm 15.33 dBm

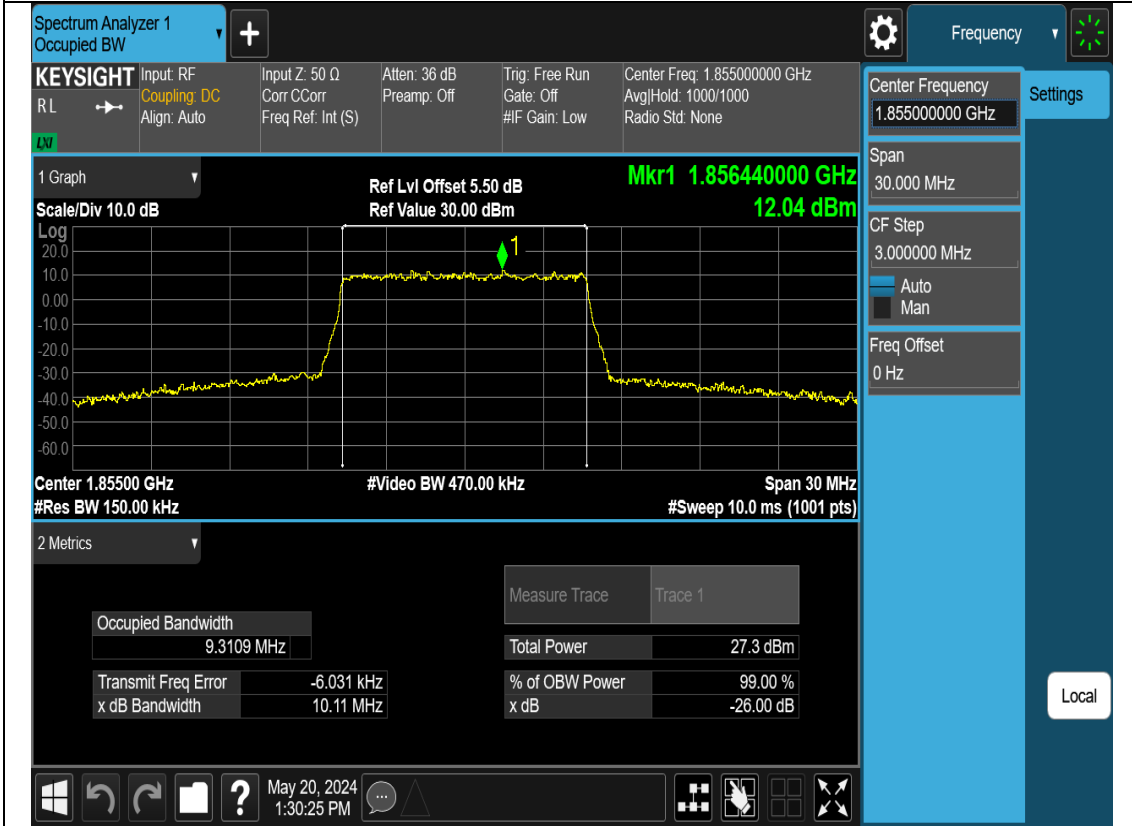
Center 1.85500 GHz #Res BW 150.00 kHz #Video BW 470.00 kHz Span 30 MHz #Sweep 10.0 ms (1001 pts)

2 Metrics

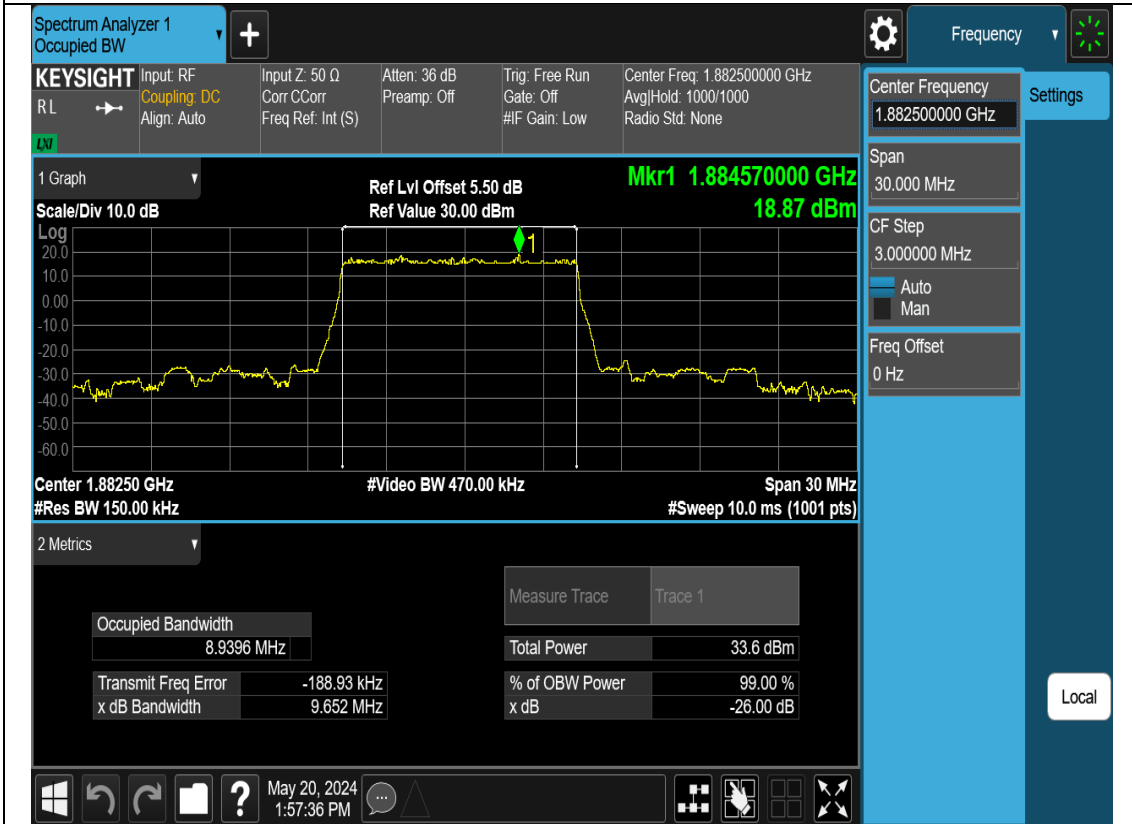
Measure Trace		Trace 1	
Occupied Bandwidth	9.2929 MHz	Total Power	30.4 dBm
Transmit Freq Error	-9.731 kHz	% of OBW Power	99.00 %
x dB Bandwidth	10.07 MHz	x dB	-26.00 dB

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N25-10M-OBW-L-CP-OFDM-256QAM



N25-10M-OBW-M-DFT-s-OFDM-Pi2 BPSK



N25-10M-OBW-M-DFT-s-OFDM-QPSK

Spectrum Analyzer 1 Occupied BW

KEYSIGHT Input RF Input Z: 50 Ω Atten: 36 dB Trig: Free Run Center Freq: 1.88250000 GHz  
 RL Coupling: DC Corr: CCorr Preamp: Off Gate: Off Avg/Hold: 1000/1000  
 Align: Auto Freq Ref: Int (S) #F Gain: Low Radio Std: None

1 Graph Scale/Div 10.0 dB Ref Lvl Offset 5.50 dB Mkr1 1.886070000 GHz  
 Ref Value 30.00 dBm 18.12 dBm

Center 1.88250 GHz #Res BW 150.00 kHz #Video BW 470.00 kHz Span 30 MHz #Sweep 10.0 ms (1001 pts)

2 Metrics

Measure Trace		Trace 1	
Occupied Bandwidth	8.9810 MHz	Total Power	32.8 dBm
Transmit Freq Error	-193.75 KHz	% of OBW Power	99.00 %
x dB Bandwidth	9.651 MHz	x dB	-26.00 dB

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N25-10M-OBW-M-DFT-s-OFDM-16QAM

Spectrum Analyzer 1 Occupied BW

KEYSIGHT Input RF Input Z: 50 Ω Atten: 36 dB Trig: Free Run Center Freq: 1.88250000 GHz  
 RL Coupling: DC Corr: CCorr Preamp: Off Gate: Off Avg/Hold: 1000/1000  
 Align: Auto Freq Ref: Int (S) #F Gain: Low Radio Std: None

1 Graph Scale/Div 10.0 dB Ref Lvl Offset 5.50 dB Mkr1 1.883520000 GHz  
 Ref Value 30.00 dBm 16.43 dBm

Center 1.88250 GHz #Res BW 150.00 kHz #Video BW 470.00 kHz Span 30 MHz #Sweep 10.0 ms (1001 pts)

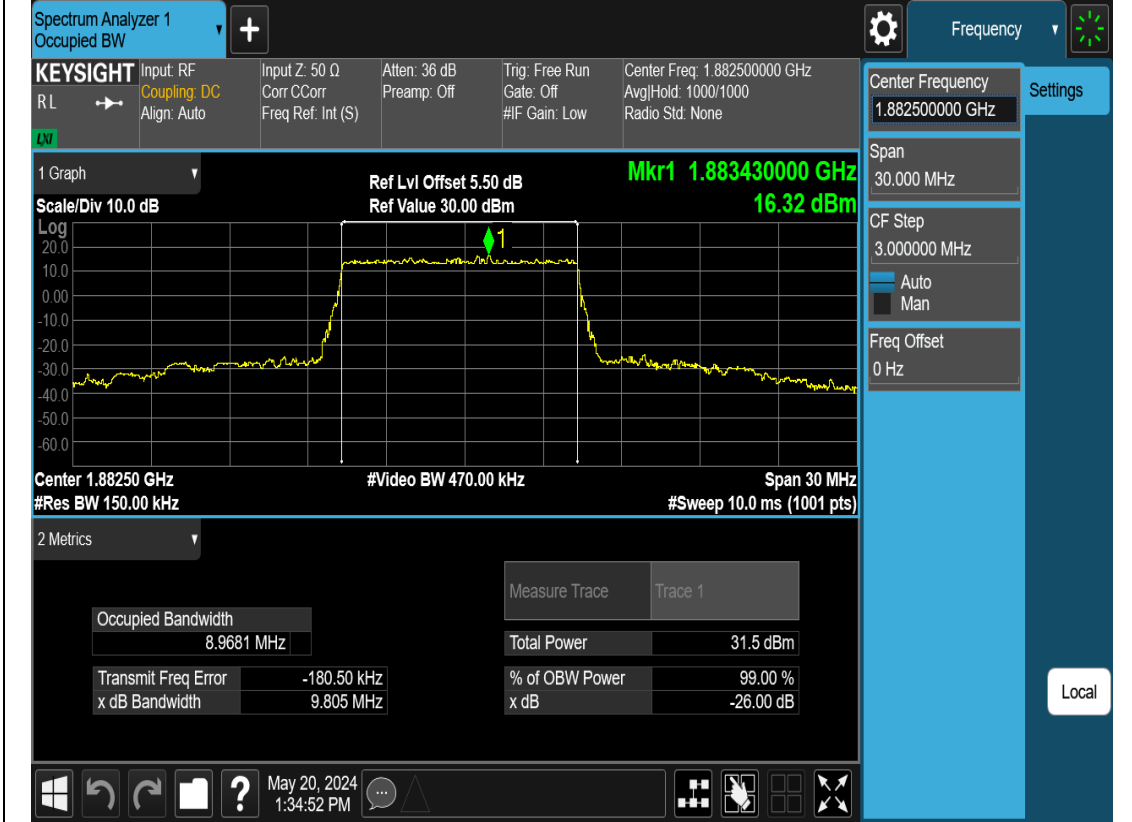
2 Metrics

Measure Trace		Trace 1	
Occupied Bandwidth	8.9451 MHz	Total Power	31.9 dBm
Transmit Freq Error	-186.76 KHz	% of OBW Power	99.00 %
x dB Bandwidth	9.758 MHz	x dB	-26.00 dB

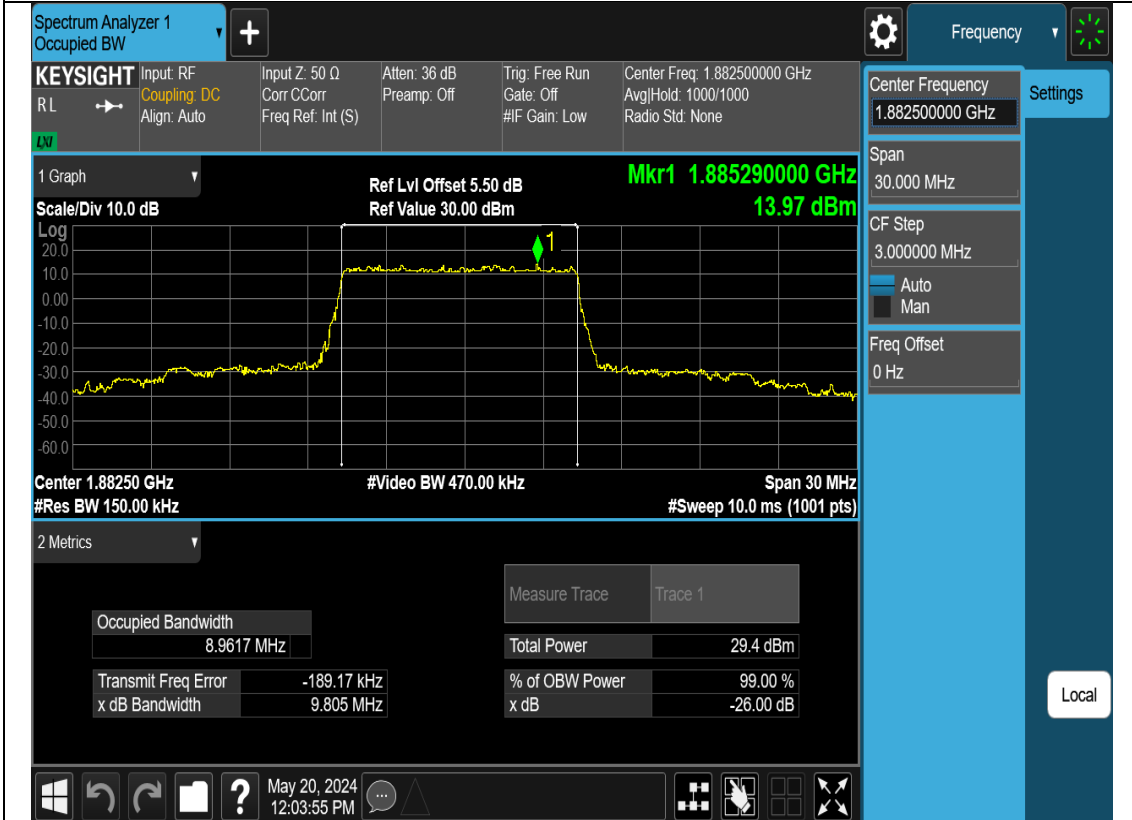
May 20, 2024 11:59:06 AM



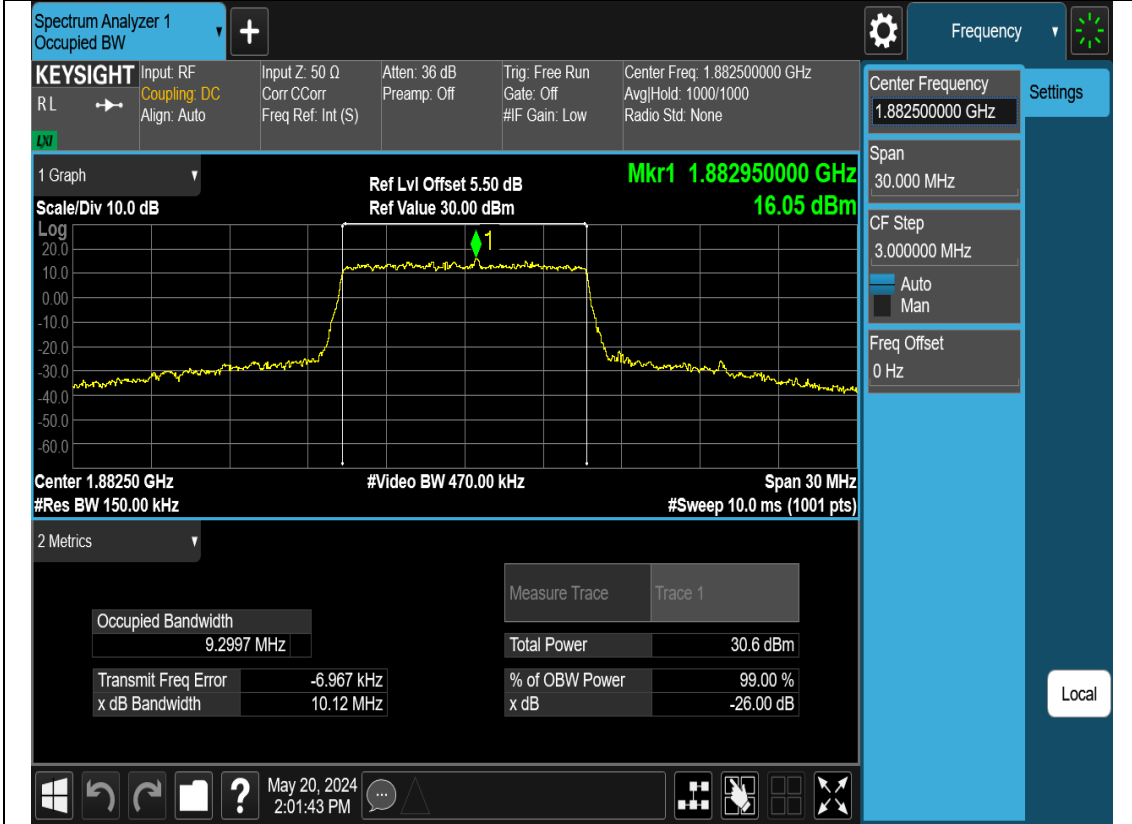
N25-10M-OBW-M-DFT-s-OFDM-64QAM



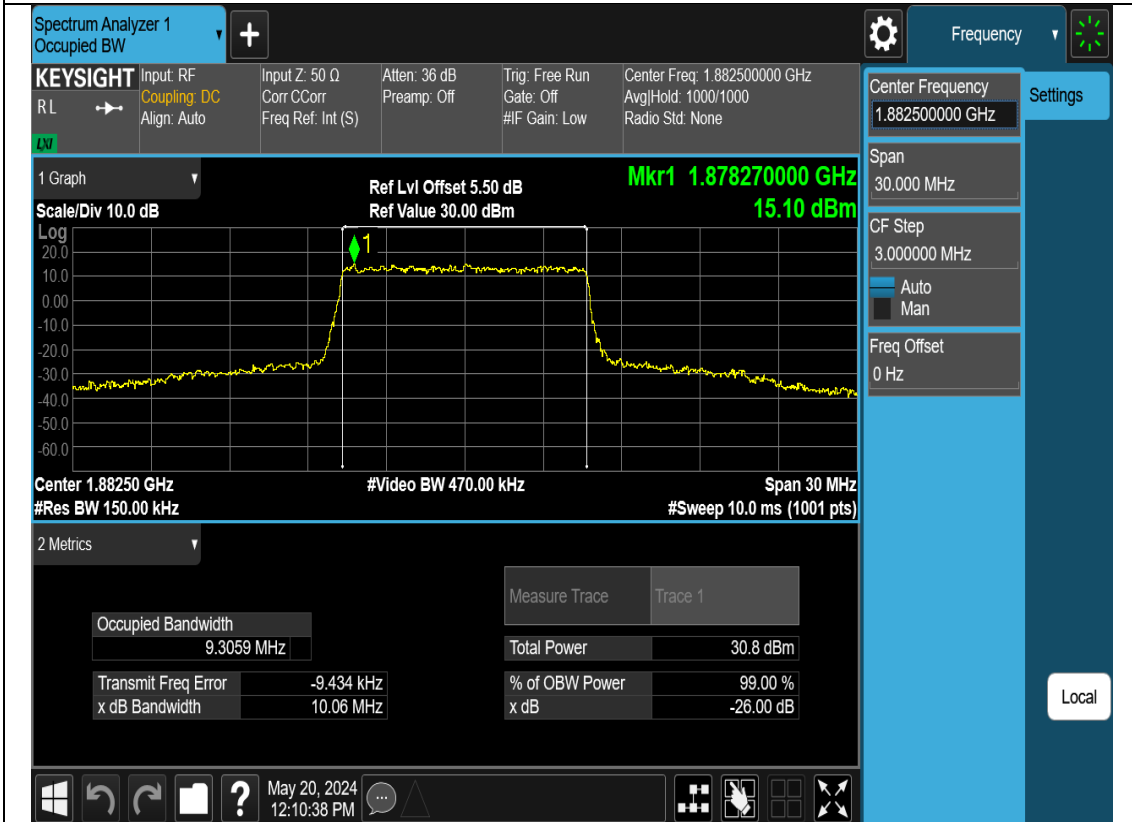
N25-10M-OBW-M-DFT-s-OFDM-256QAM



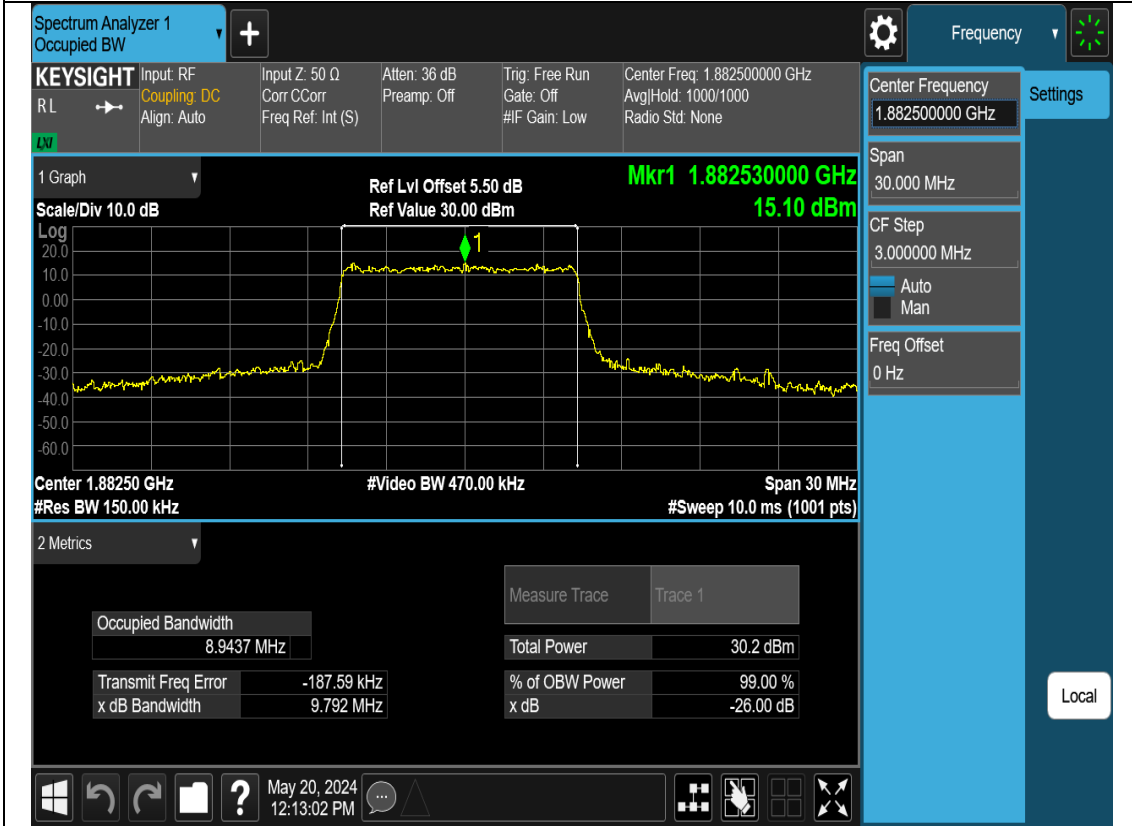
N25-10M-OBW-M-CP-OFDM-QPSK



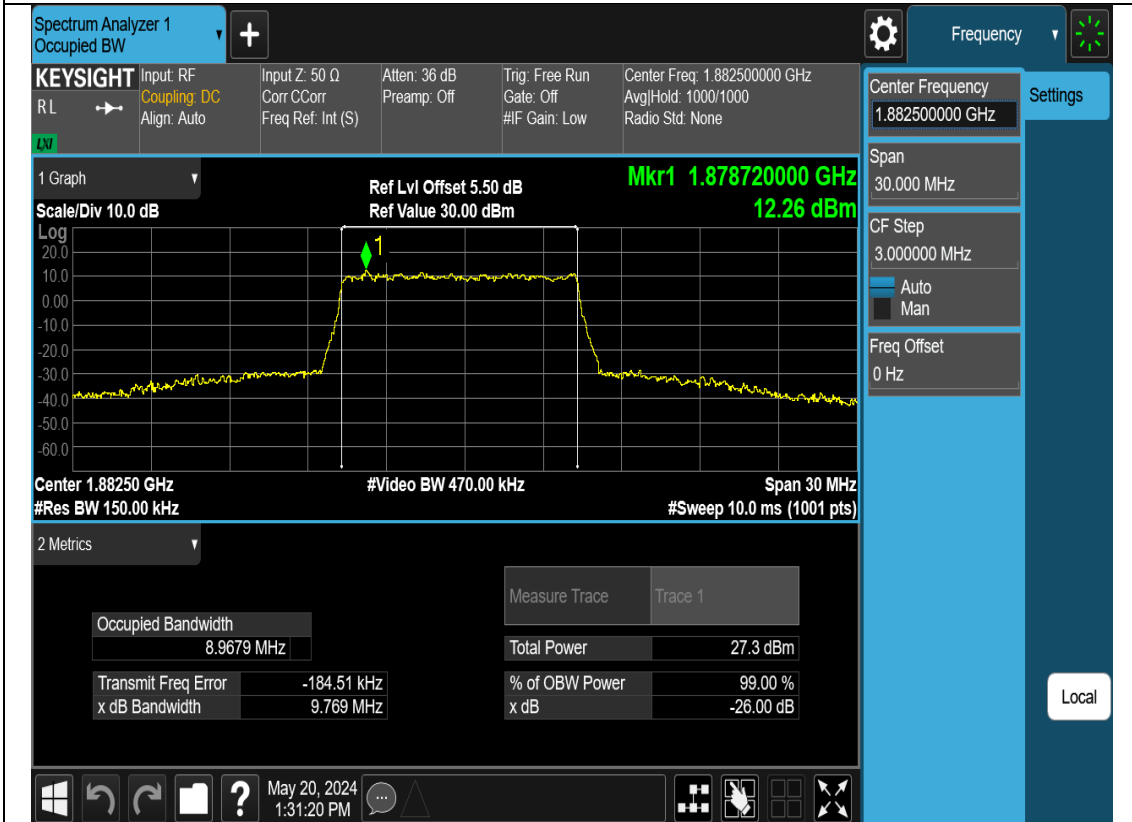
N25-10M-OBW-M-CP-OFDM-16QAM



N25-10M-OBW-M-CP-OFDM-64QAM



N25-10M-OBW-M-CP-OFDM-256QAM



N25-10M-OBW-H-DFT-s-OFDM-Pi2 BPSK

Spectrum Analyzer 1 Occupied BW

KEYSIGHT Input RF Input Z: 50 Ω Atten: 36 dB Trig: Free Run Center Freq: 1.910000000 GHz  
 RL Coupling: DC Corr: C Corr Preamp: Off Gate: Off Avg/Hold: 1000/1000  
 Align: Auto Freq Ref: Int (S) #F Gain: Low Radio Std: None

1 Graph Scale/Div 10.0 dB Ref Lvl Offset 5.50 dB Mkr1 1.905650000 GHz  
 Ref Value 30.00 dBm 19.34 dBm

Center 1.91000 GHz #Res BW 150.00 kHz #Video BW 470.00 kHz Span 30 MHz  
 #Sweep 10.0 ms (1001 pts)

2 Metrics

Measure Trace		Trace 1	
Occupied Bandwidth	8.9367 MHz	Total Power	33.6 dBm
Transmit Freq Error	-216.15 kHz	% of OBW Power	99.00 %
x dB Bandwidth	9.683 MHz	x dB	-26.00 dB

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N25-10M-OBW-H-DFT-s-OFDM-QPSK

Spectrum Analyzer 1 Occupied BW

KEYSIGHT Input RF Input Z: 50 Ω Atten: 36 dB Trig: Free Run Center Freq: 1.910000000 GHz  
 RL Coupling: DC Corr: C Corr Preamp: Off Gate: Off Avg/Hold: 1000/1000  
 Align: Auto Freq Ref: Int (S) #F Gain: Low Radio Std: None

1 Graph Scale/Div 10.0 dB Ref Lvl Offset 5.50 dB Mkr1 1.905800000 GHz  
 Ref Value 30.00 dBm 18.79 dBm

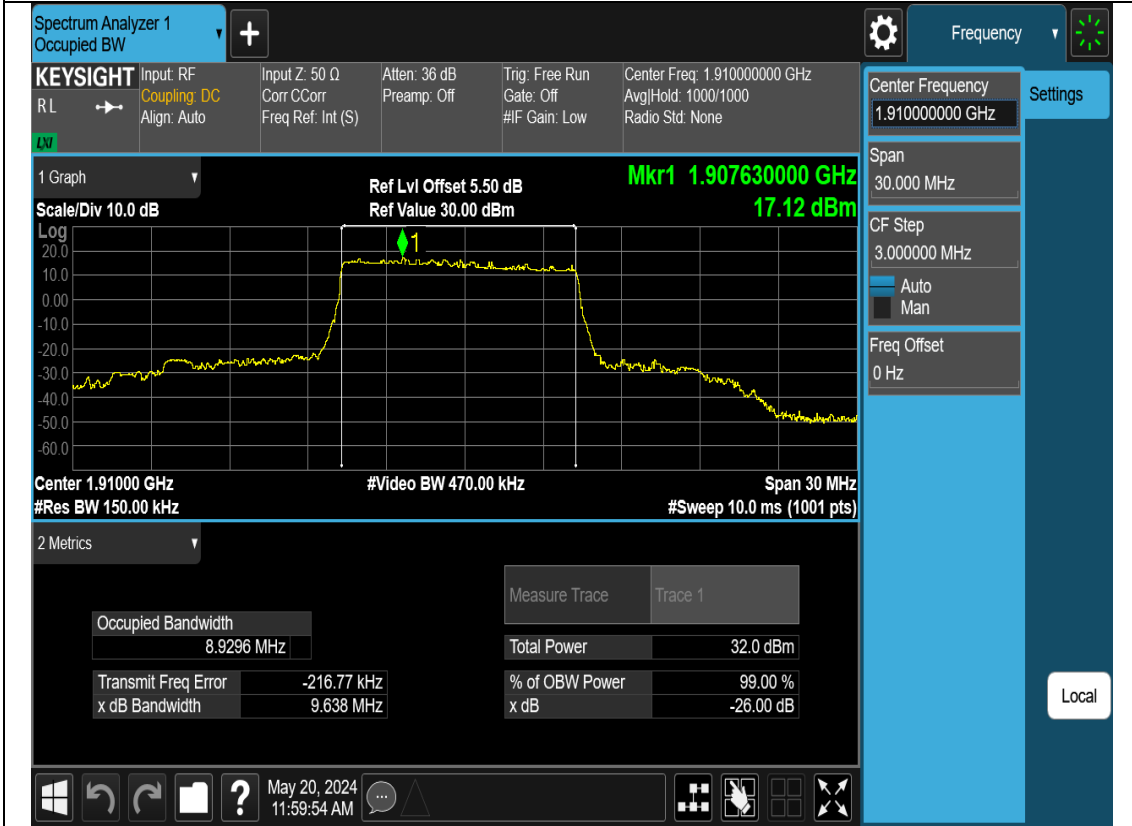
Center 1.91000 GHz #Res BW 150.00 kHz #Video BW 470.00 kHz Span 30 MHz  
 #Sweep 10.0 ms (1001 pts)

2 Metrics

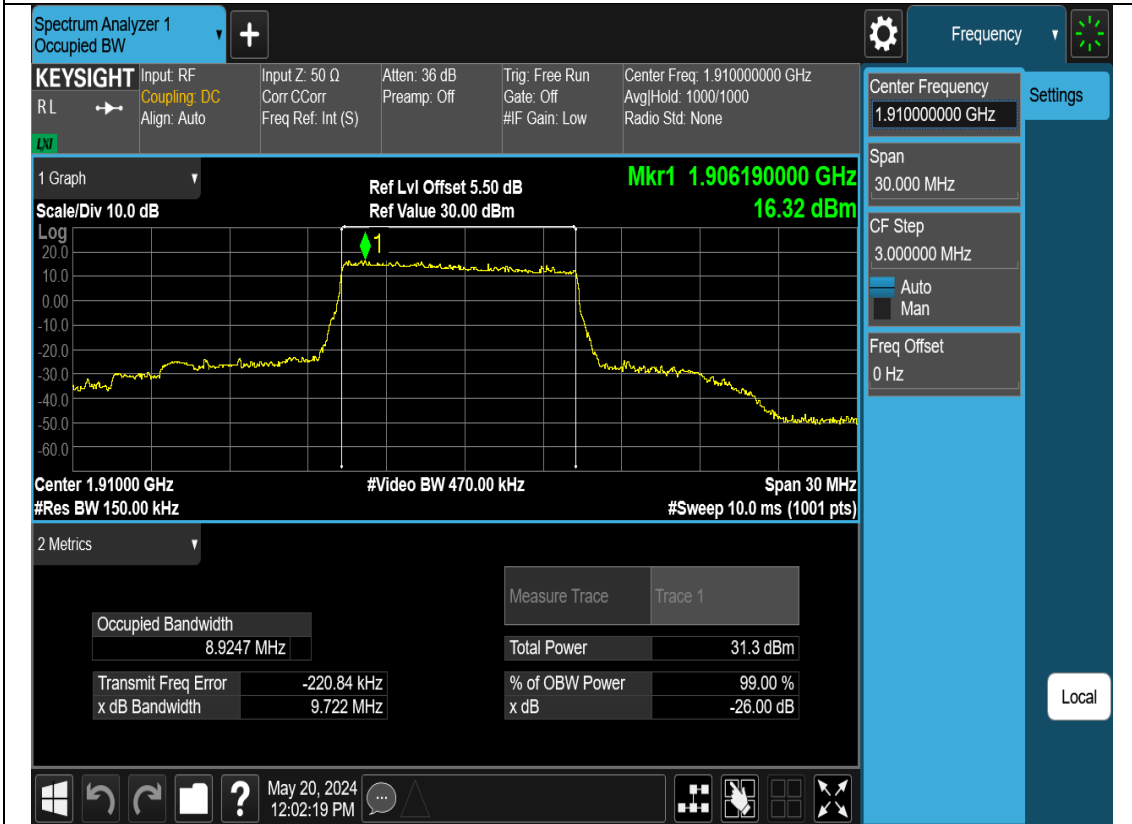
Measure Trace		Trace 1	
Occupied Bandwidth	8.9308 MHz	Total Power	32.7 dBm
Transmit Freq Error	-221.42 kHz	% of OBW Power	99.00 %
x dB Bandwidth	9.672 MHz	x dB	-26.00 dB

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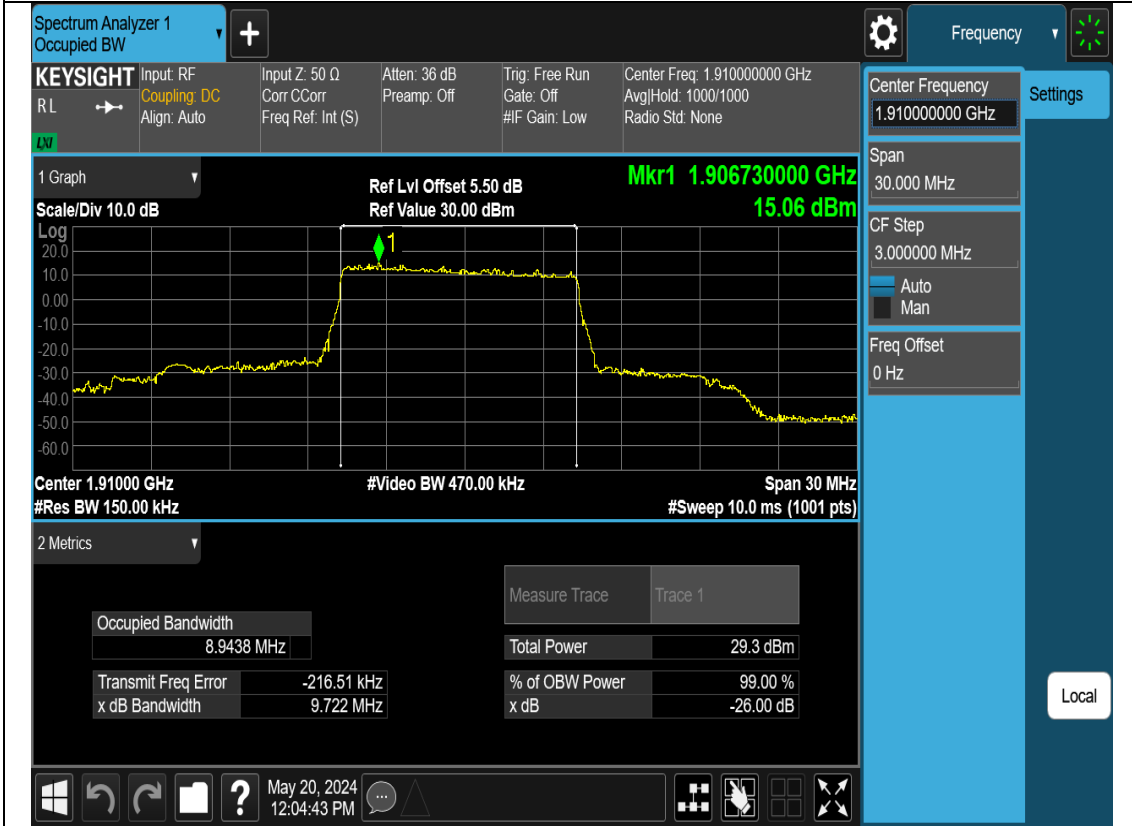
N25-10M-OBW-H-DFT-s-OFDM-16QAM



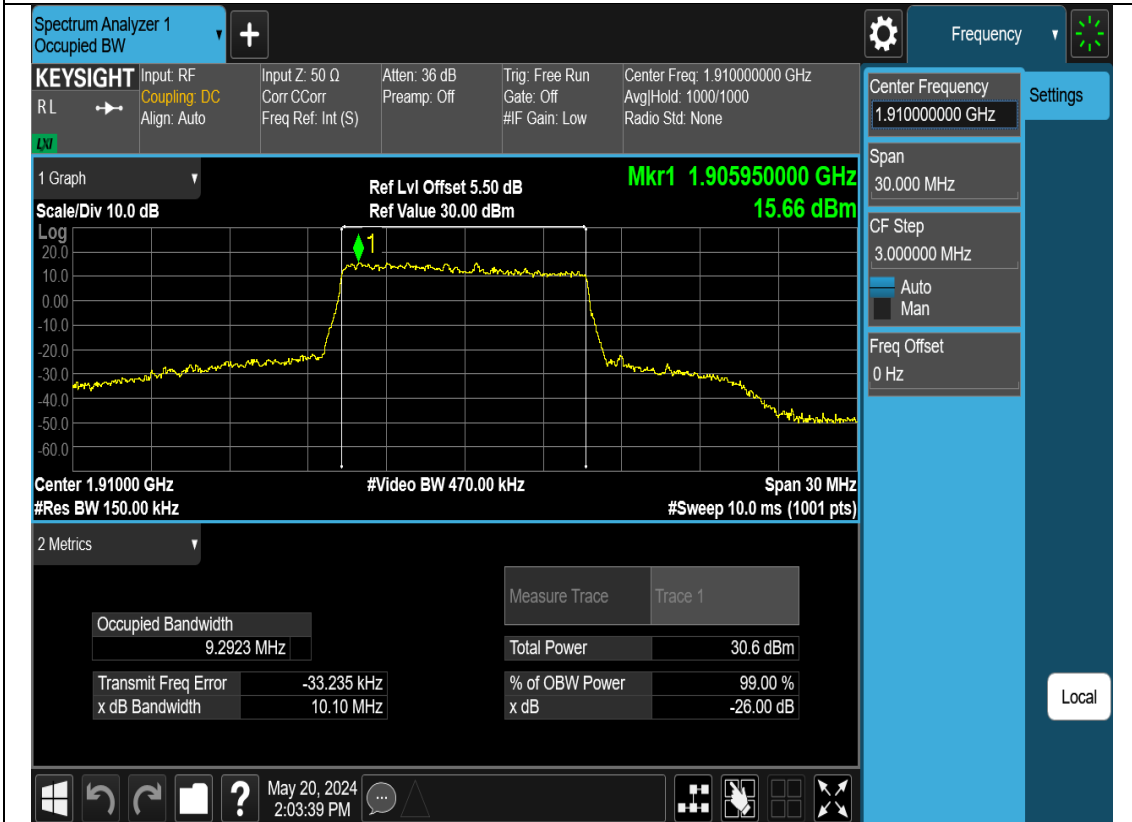
N25-10M-OBW-H-DFT-s-OFDM-64QAM



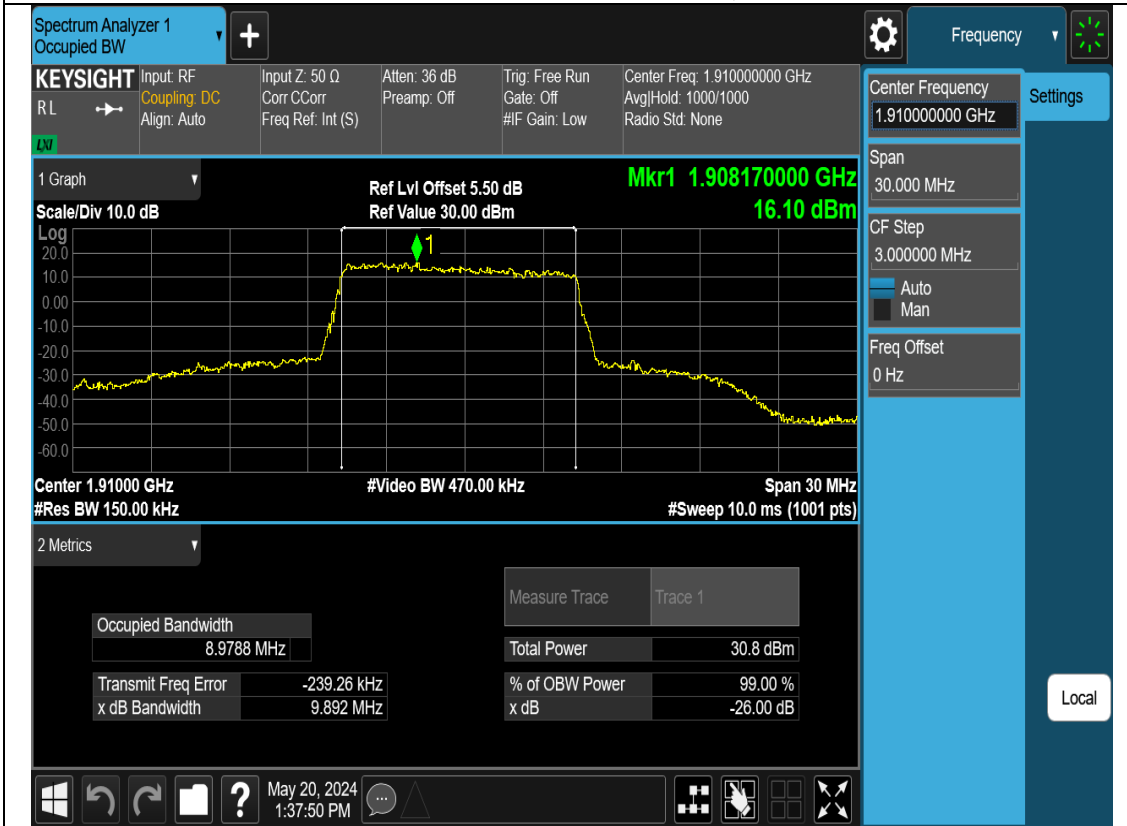
N25-10M-OBW-H-DFT-s-OFDM-256QAM



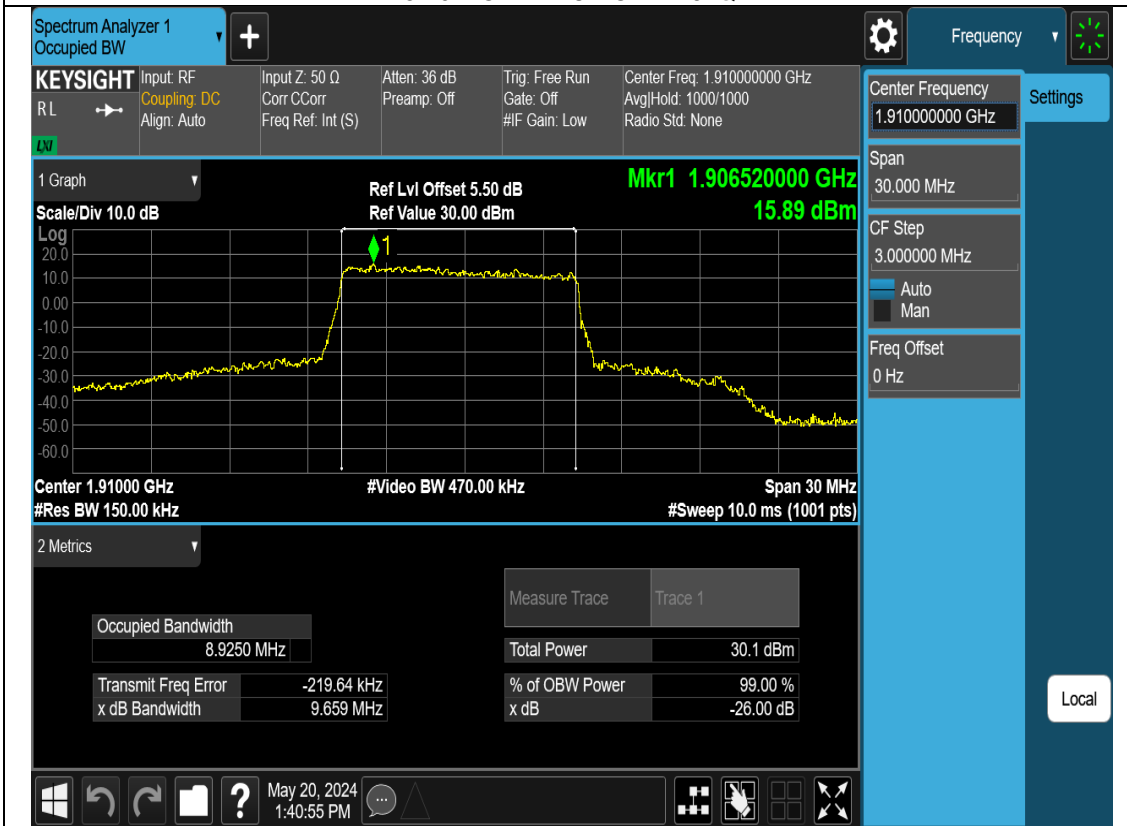
N25-10M-OBW-H-CP-OFDM-QPSK



N25-10M-OBW-H-CP-OFDM-16QAM



N25-10M-OBW-H-CP-OFDM-64QAM



N25-10M-OBW-H-CP-OFDM-256QAM

Spectrum Analyzer 1  
Occupied BW

KEYSIGHT Input RF Input Z: 50 Ω Atten: 36 dB Trig: Free Run Center Freq: 1.91000000 GHz  
 RL Coupling: DC Corr: C Corr Gate: Off Avg/Hold: 1000/1000  
 Align: Auto Freq Ref: Int (S) Preamp: Off #F Gain: Low Radio Std: None

1 Graph  
 Scale/Div 10.0 dB  
 Log  
 Ref Lvl Offset 5.50 dB Mkr1 1.905740000 GHz  
 Ref Value 30.00 dBm 16.62 dBm

Center 1.91000 GHz #Video BW 470.00 kHz Span 30 MHz  
 #Res BW 150.00 kHz #Sweep 10.0 ms (1001 pts)

2 Metrics

Measure Trace		Trace 1	
Occupied Bandwidth	8.9354 MHz	Total Power	30.3 dBm
Transmit Freq Error	-213.76 kHz	% of OBW Power	99.00 %
x dB Bandwidth	9.641 MHz	x dB	-26.00 dB

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N25-15M-OBW-L-DFT-s-OFDM-Pi2 BPSK

Spectrum Analyzer 1  
Occupied BW

KEYSIGHT Input RF Input Z: 50 Ω Atten: 36 dB Trig: Free Run Center Freq: 1.85750000 GHz  
 RL Coupling: DC Corr: C Corr Gate: Off Avg/Hold: 1000/1000  
 Align: Auto Freq Ref: Int (S) Preamp: Off #F Gain: Low Radio Std: None

1 Graph  
 Scale/Div 10.0 dB  
 Log  
 Ref Lvl Offset 5.50 dB Mkr1 1.856645000 GHz  
 Ref Value 30.00 dBm 19.54 dBm

Center 1.85750 GHz #Video BW 1.0000 MHz Span 45 MHz  
 #Res BW 300.00 kHz #Sweep 10.0 ms (1001 pts)

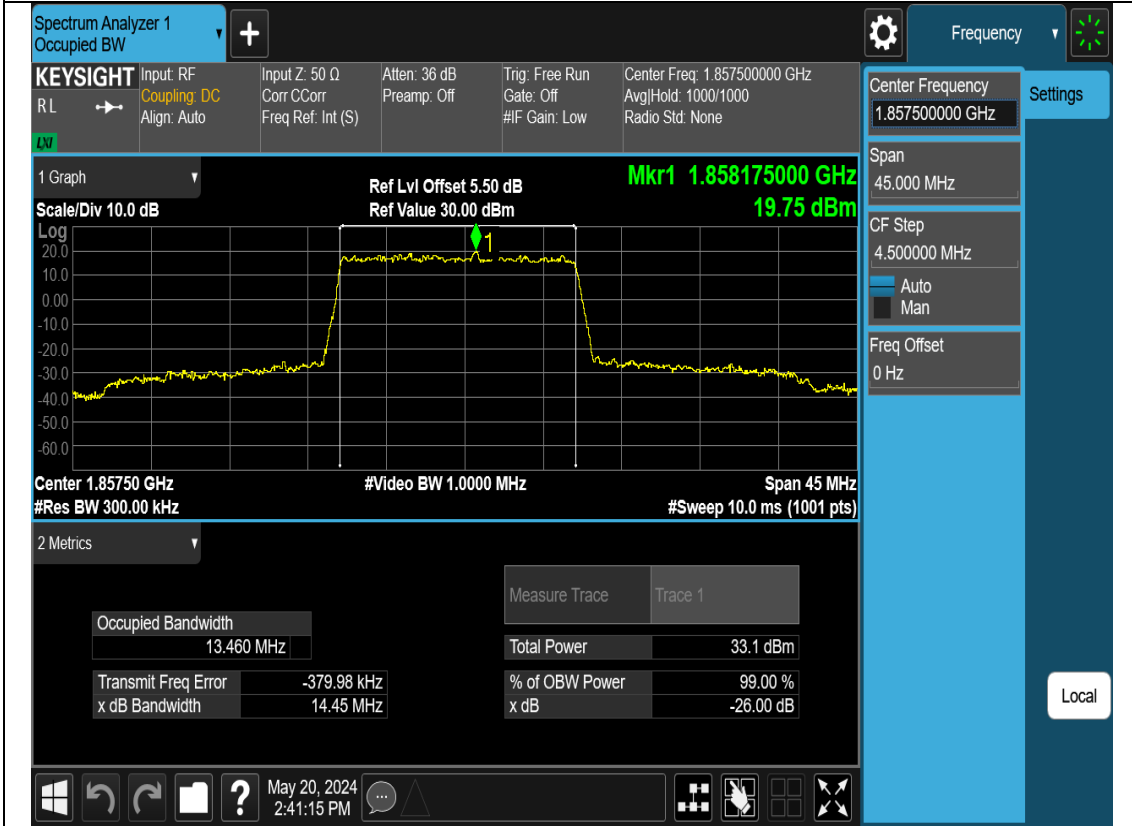
2 Metrics

Measure Trace		Trace 1	
Occupied Bandwidth	13.443 MHz	Total Power	33.6 dBm
Transmit Freq Error	-370.05 kHz	% of OBW Power	99.00 %
x dB Bandwidth	14.56 MHz	x dB	-26.00 dB

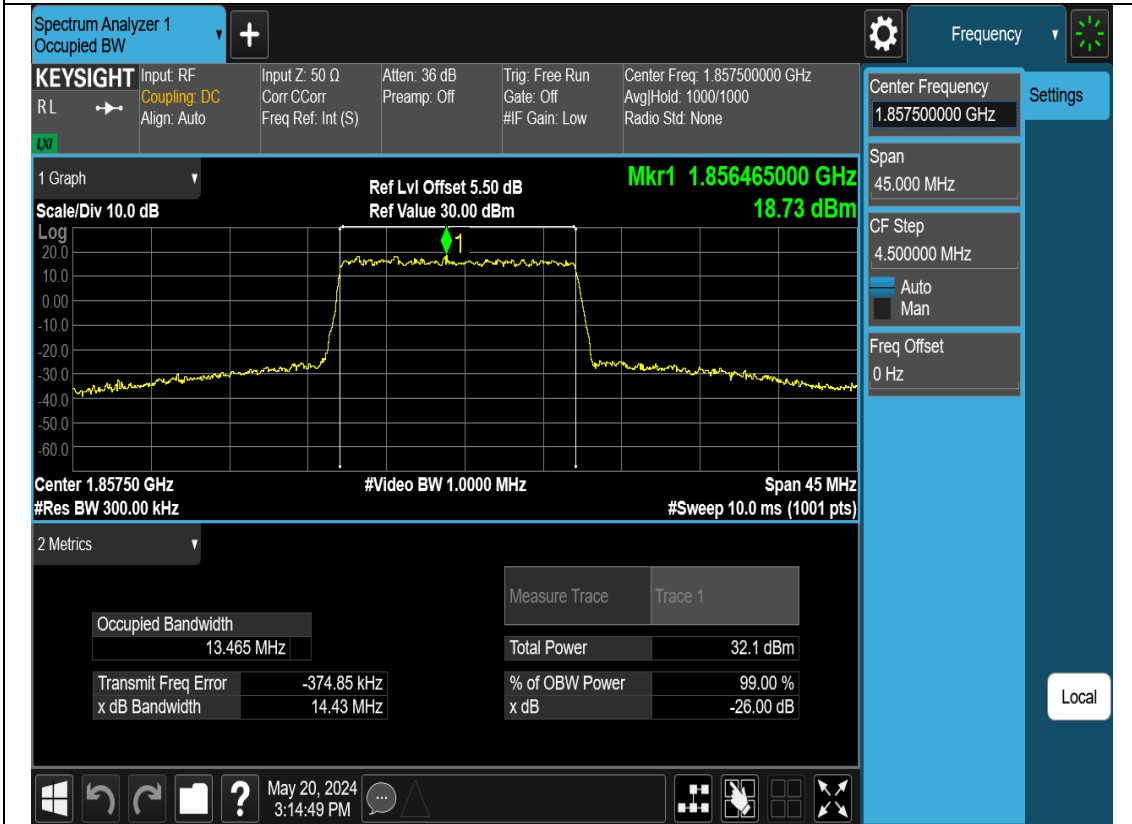
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N25-15M-OBW-L-DFT-s-OFDM-QPSK



N25-15M-OBW-L-DFT-s-OFDM-16QAM



N25-15M-OBW-L-DFT-s-OFDM-64QAM

Spectrum Analyzer 1  
Occupied BW

KEYSIGHT Input RF  
RL Coupling: DC  
Align: Auto

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

Atten: 36 dB  
Preamp: Off

Trig: Free Run  
Gate: Off  
#F Gain: Low

Center Freq: 1.85750000 GHz  
Avg/Hold: 1000/1000  
Radio Std: None

Center Frequency: 1.85750000 GHz

Span: 45.000 MHz

CF Step: 4.500000 MHz

Auto Man

Freq Offset: 0 Hz

1 Graph  
Scale/Div 15.0 dB  
Log

Ref Lvl Offset 5.50 dB  
Ref Value 30.00 dBm

Mkr1 1.852370000 GHz  
18.44 dBm

Center 1.85750 GHz  
#Res BW 300.00 kHz  
#Video BW 1.0000 MHz  
Span 45 MHz  
#Sweep 10.0 ms (1001 pts)

2 Metrics

Occupied Bandwidth	13.461 MHz	Total Power	31.7 dBm
Transmit Freq Error	-384.26 kHz	% of OBW Power	99.00 %
x dB Bandwidth	14.58 MHz	x dB	-26.00 dB

May 20, 2024  
2:45:53 PM

Local

N25-15M-OBW-L-DFT-s-OFDM-256QAM

Spectrum Analyzer 1  
Occupied BW

KEYSIGHT Input RF  
RL Coupling: DC  
Align: Auto

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

Atten: 36 dB  
Preamp: Off

Trig: Free Run  
Gate: Off  
#F Gain: Low

Center Freq: 1.85750000 GHz  
Avg/Hold: 1000/1000  
Radio Std: None

Center Frequency: 1.85750000 GHz

Span: 45.000 MHz

CF Step: 4.500000 MHz

Auto Man

Freq Offset: 0 Hz

1 Graph  
Scale/Div 10.0 dB  
Log

Ref Lvl Offset 5.50 dB  
Ref Value 30.00 dBm

Mkr1 1.851380000 GHz  
16.39 dBm

Center 1.85750 GHz  
#Res BW 300.00 kHz  
#Video BW 1.0000 MHz  
Span 45 MHz  
#Sweep 10.0 ms (1001 pts)

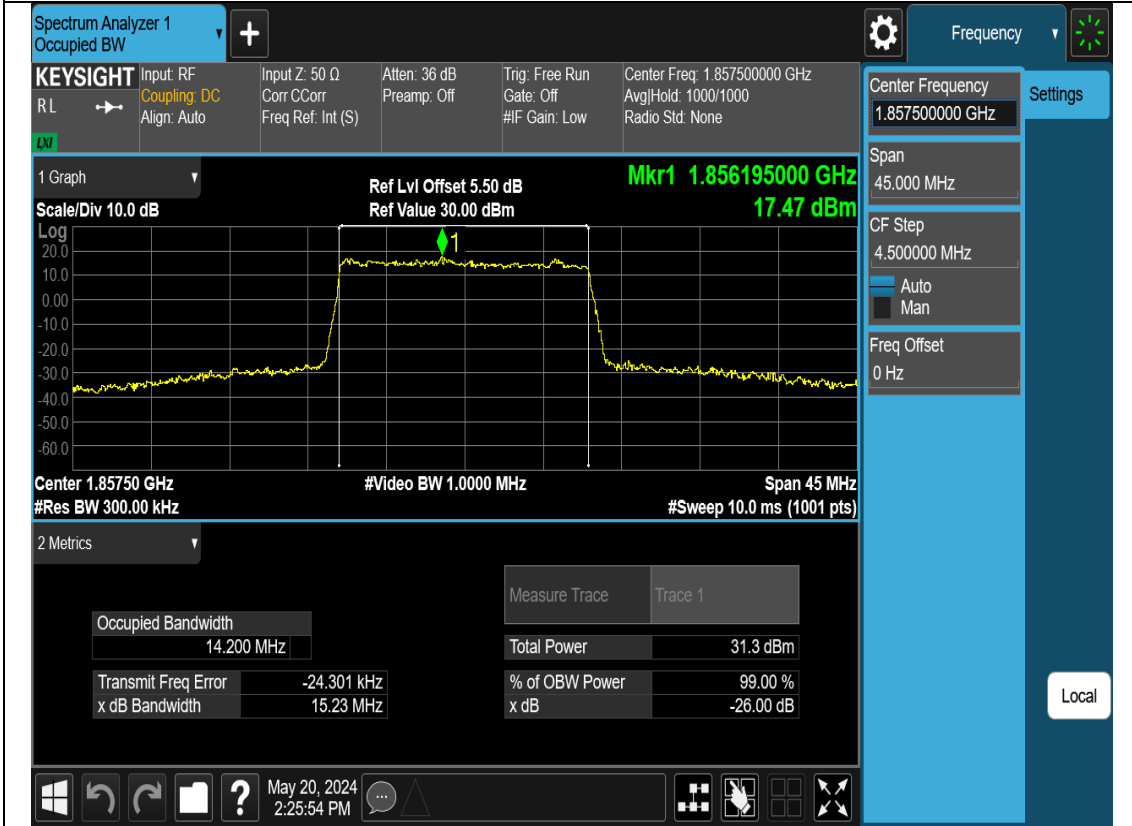
2 Metrics

Occupied Bandwidth	13.509 MHz	Total Power	29.8 dBm
Transmit Freq Error	-363.64 kHz	% of OBW Power	99.00 %
x dB Bandwidth	14.52 MHz	x dB	-26.00 dB

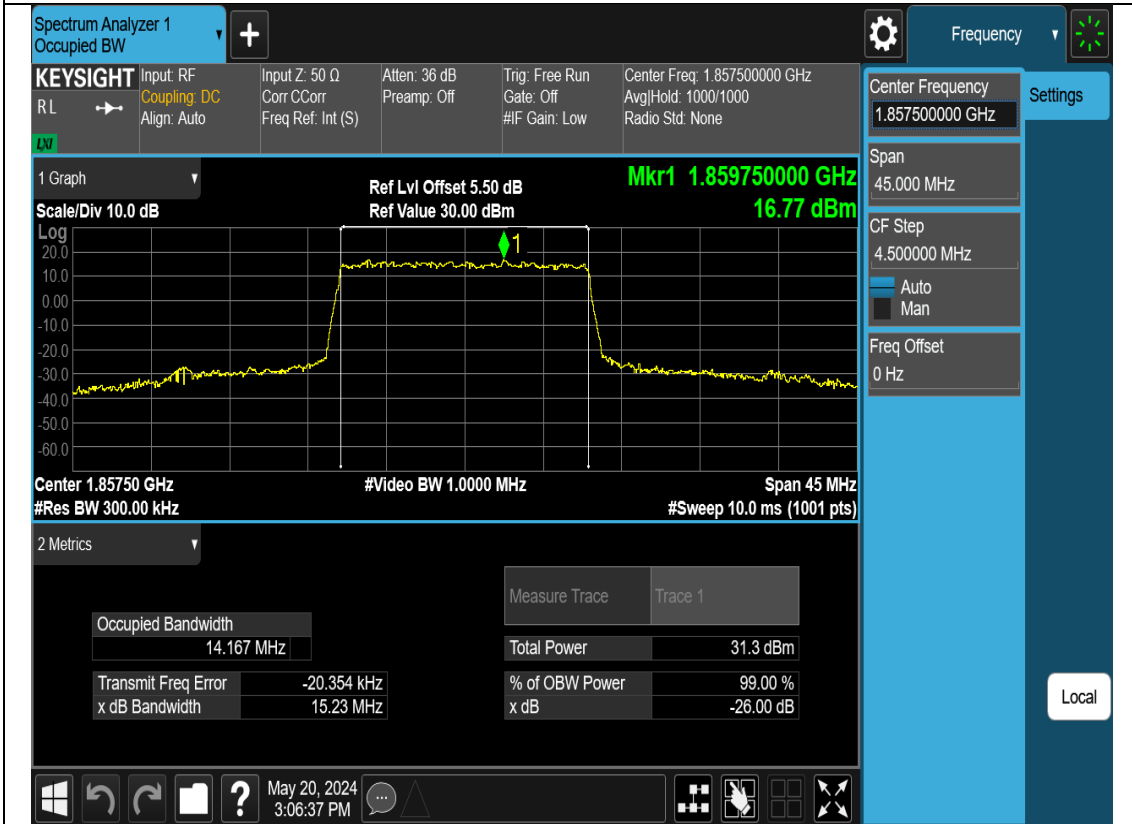
May 20, 2024  
3:15:15 PM

Local

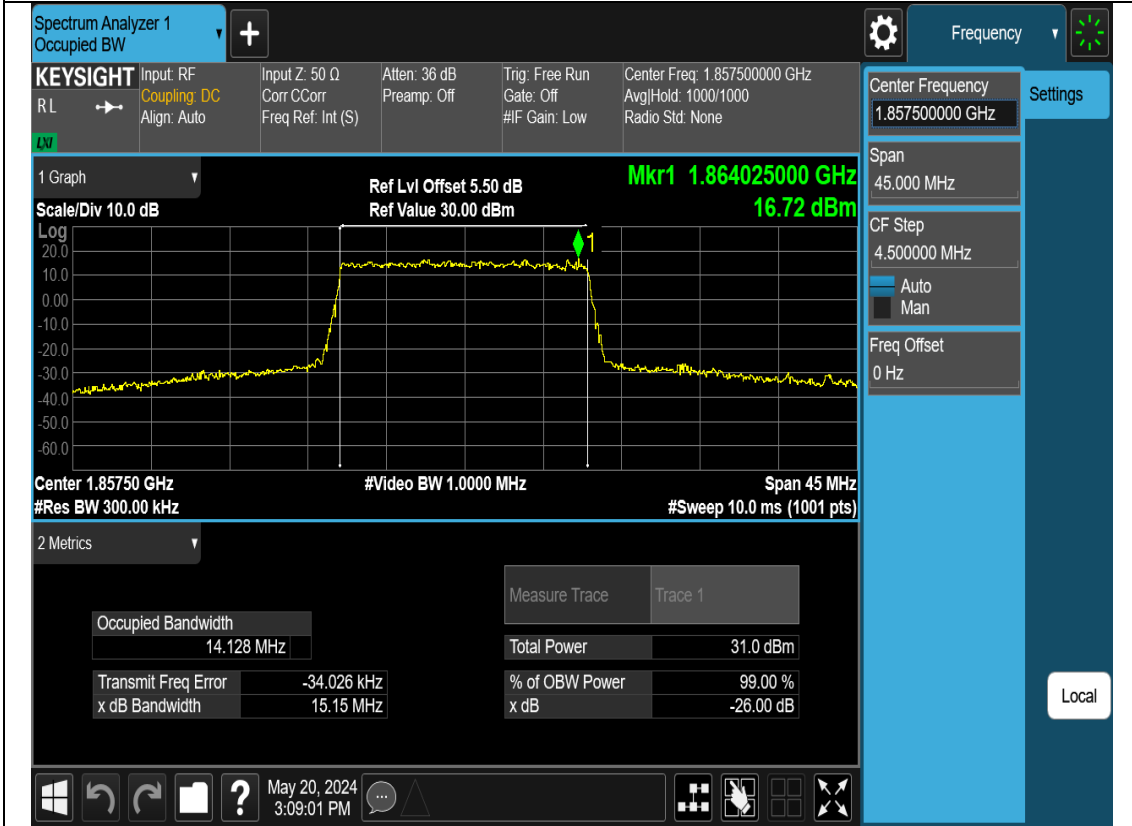
N25-15M-OBW-L-CP-OFDM-QPSK



N25-15M-OBW-L-CP-OFDM-16QAM



N25-15M-OBW-L-CP-OFDM-64QAM



N25-15M-OBW-L-CP-OFDM-256QAM

