

99% & 26dB Bandwidth

Test Result

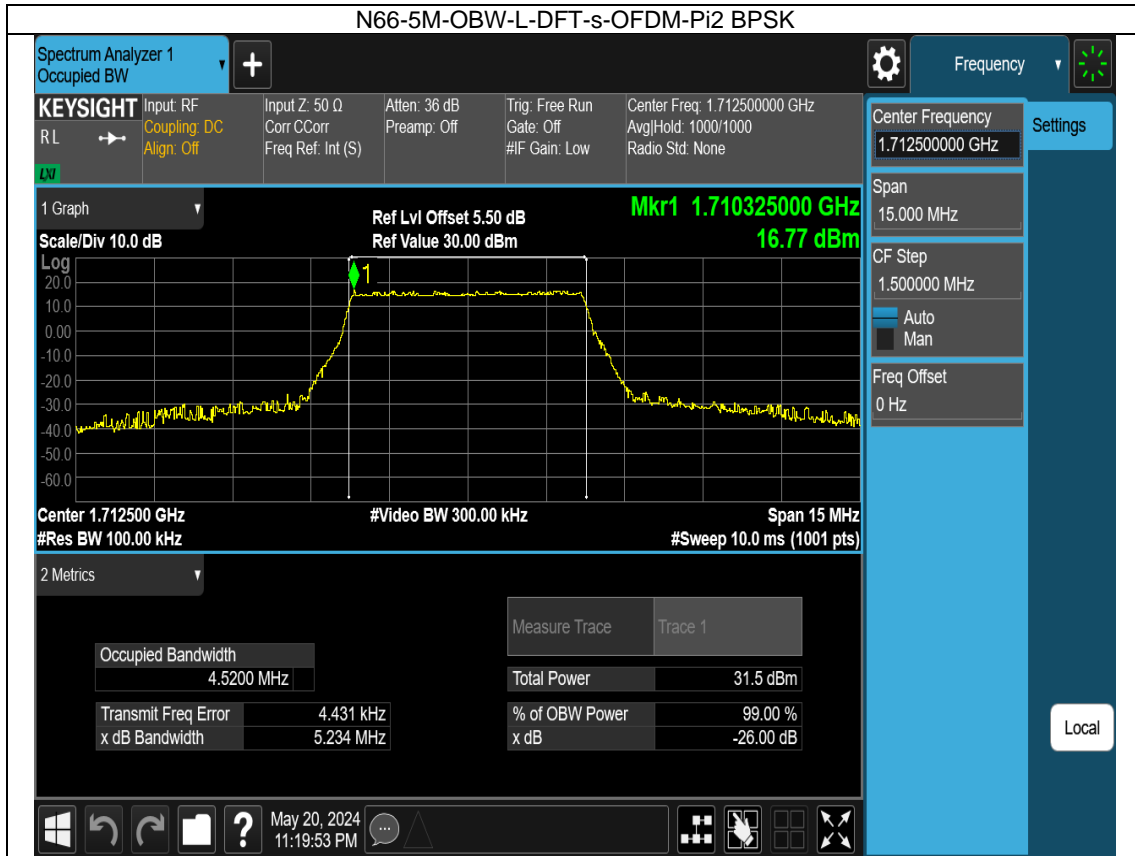
5G NR n66 SCS=15kHz 5MHz						
Modulation	CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	Low CH	Outer_Full	4.520	5.234	/	Pass
DFT-s-OFDM QPSK		Outer_Full	4.537	5.301	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	4.497	5.179	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	4.489	5.105	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	4.512	5.131	/	Pass
CP-OFDM QPSK		Outer_Full	4.514	5.283	/	Pass
CP-OFDM 16QAM		Outer_Full	4.539	5.310	/	Pass
CP-OFDM 64QAM		Outer_Full	4.482	5.104	/	Pass
CP-OFDM 256QAM		Outer_Full	4.510	5.118	/	Pass
DFT-s-OFDM PI/2 BPSK		Middle CH	Outer_Full	4.523	5.261	/
DFT-s-OFDM QPSK	Outer_Full		4.534	5.342	/	Pass
DFT-s-OFDM 16QAM	Outer_Full		4.504	5.190	/	Pass
DFT-s-OFDM 64QAM	Outer_Full		4.483	5.087	/	Pass
DFT-s-OFDM 256QAM	Outer_Full		4.516	5.173	/	Pass
CP-OFDM QPSK	Outer_Full		4.504	5.247	/	Pass
CP-OFDM 16QAM	Outer_Full		4.507	5.222	/	Pass
CP-OFDM 64QAM	Outer_Full		4.492	5.067	/	Pass
CP-OFDM 256QAM	Outer_Full		4.504	5.132	/	Pass
DFT-s-OFDM PI/2 BPSK	High CH		Outer_Full	4.490	5.131	/
DFT-s-OFDM QPSK		Outer_Full	4.510	5.228	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	4.505	5.174	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	4.489	5.049	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	4.508	5.147	/	Pass
CP-OFDM QPSK		Outer_Full	4.512	5.147	/	Pass
CP-OFDM 16QAM		Outer_Full	4.512	5.357	/	Pass
CP-OFDM 64QAM		Outer_Full	4.494	5.188	/	Pass
CP-OFDM 256QAM		Outer_Full	4.501	5.131	/	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 CH	Outer_Full	8.938	9.692	/	Pass
DFT-s-OFDM QPSK		Outer_Full	8.940	9.700	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	8.972	9.870	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	8.949	9.803	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	9.010	9.851	/	Pass
CP-OFDM QPSK		Outer_Full	8.949	9.722	/	Pass
CP-OFDM 16QAM		Outer_Full	9.296	10.13	/	Pass
CP-OFDM 64QAM		Outer_Full	9.294	10.14	/	Pass
CP-OFDM 256QAM		Outer_Full	9.318	10.04	/	Pass
DFT-s-OFDM PI/2 BPSK	Middle CH	Outer_Full	8.945	9.603	/	Pass
DFT-s-OFDM QPSK		Outer_Full	8.937	9.648	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	8.956	9.886	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	8.949	9.671	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	8.978	9.636	/	Pass
CP-OFDM QPSK		Outer_Full	8.923	9.676	/	Pass
CP-OFDM 16QAM		Outer_Full	8.919	9.763	/	Pass
CP-OFDM 64QAM		Outer_Full	8.946	9.725	/	Pass
CP-OFDM 256QAM		Outer_Full	9.284	10.11	/	Pass
DFT-s-OFDM PI/2 BPSK	High CH	Outer_Full	8.940	9.576	/	Pass
DFT-s-OFDM QPSK		Outer_Full	8.936	9.680	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	8.945	9.692	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	8.948	9.669	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	9.003	9.654	/	Pass
CP-OFDM QPSK		Outer_Full	8.933	9.738	/	Pass
CP-OFDM 16QAM		Outer_Full	8.922	9.896	/	Pass
CP-OFDM 64QAM		Outer_Full	8.946	9.724	/	Pass
CP-OFDM 256QAM		Outer_Full	8.946	9.781	/	Pass

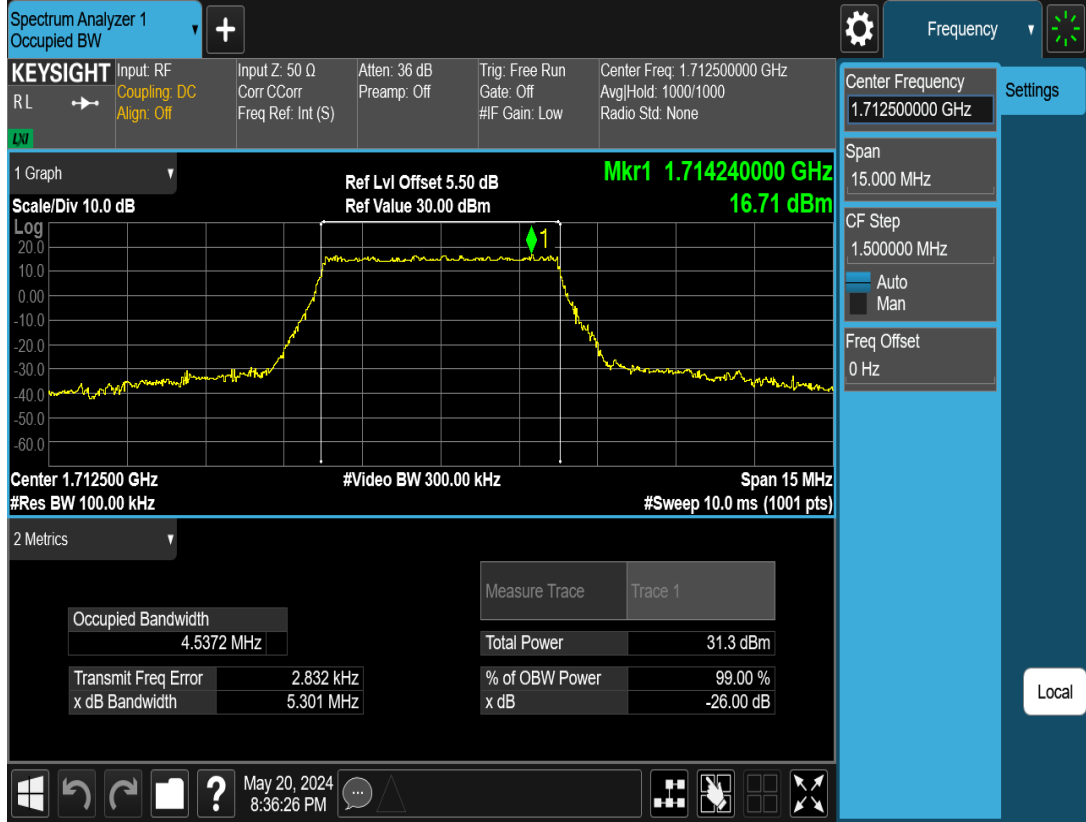
5G NR n66 SCS=15kHz 15MHz						
Modulation	CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	Low CH	Outer_Full	13.470	14.49	/	Pass
DFT-s-OFDM QPSK		Outer_Full	13.462	14.52	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	13.450	14.53	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	13.456	14.48	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	13.471	14.46	/	Pass
CP-OFDM QPSK		Outer_Full	13.412	14.48	/	Pass
CP-OFDM 16QAM		Outer_Full	14.138	15.25	/	Pass
CP-OFDM 64QAM		Outer_Full	14.115	15.18	/	Pass
CP-OFDM 256QAM		Outer_Full	14.116	15.16	/	Pass
DFT-s-OFDM PI/2 BPSK	Middle CH	Outer_Full	13.472	14.55	/	Pass
DFT-s-OFDM QPSK		Outer_Full	13.456	14.47	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	13.474	14.52	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	13.474	14.60	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	13.444	14.5	/	Pass
CP-OFDM QPSK		Outer_Full	14.116	15.06	/	Pass
CP-OFDM 16QAM		Outer_Full	13.458	14.51	/	Pass
CP-OFDM 64QAM		Outer_Full	13.446	14.55	/	Pass
CP-OFDM 256QAM		Outer_Full	13.461	14.49	/	Pass
DFT-s-OFDM PI/2 BPSK	High CH	Outer_Full	13.472	14.62	/	Pass
DFT-s-OFDM QPSK		Outer_Full	13.483	14.41	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	13.469	14.49	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	13.494	14.63	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	13.510	14.59	/	Pass
CP-OFDM QPSK		Outer_Full	14.139	15.12	/	Pass
CP-OFDM 16QAM		Outer_Full	13.488	14.48	/	Pass
CP-OFDM 64QAM		Outer_Full	13.437	14.41	/	Pass
CP-OFDM 256QAM		Outer_Full	13.459	14.53	/	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 CH	Outer_Full	17.885	18.99	/	Pass
DFT-s-OFDM QPSK		Outer_Full	17.865	19.14	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	17.918	19.00	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	17.853	18.99	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	17.850	19.17	/	Pass
CP-OFDM QPSK		Outer_Full	18.914	20.01	/	Pass
CP-OFDM 16QAM		Outer_Full	18.876	20.16	/	Pass
CP-OFDM 64QAM		Outer_Full	18.942	20.00	/	Pass
CP-OFDM 256QAM		Outer_Full	18.911	20.09	/	Pass
DFT-s-OFDM PI/2 BPSK	Middle CH	Outer_Full	17.913	18.99	/	Pass
DFT-s-OFDM QPSK		Outer_Full	17.855	19.11	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	17.917	19.01	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	17.853	18.93	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	17.838	19.07	/	Pass
CP-OFDM QPSK		Outer_Full	18.918	19.93	/	Pass
CP-OFDM 16QAM		Outer_Full	17.948	18.98	/	Pass
CP-OFDM 64QAM		Outer_Full	17.820	18.92	/	Pass
CP-OFDM 256QAM		Outer_Full	17.848	18.86	/	Pass
DFT-s-OFDM PI/2 BPSK	High CH	Outer_Full	17.971	19.16	/	Pass
DFT-s-OFDM QPSK		Outer_Full	17.924	19.08	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	17.995	19.07	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	17.932	18.92	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	17.921	19.04	/	Pass
CP-OFDM QPSK		Outer_Full	18.973	20.02	/	Pass
CP-OFDM 16QAM		Outer_Full	18.032	19.02	/	Pass
CP-OFDM 64QAM		Outer_Full	17.910	18.93	/	Pass
CP-OFDM 256QAM		Outer_Full	17.925	19.00	/	Pass

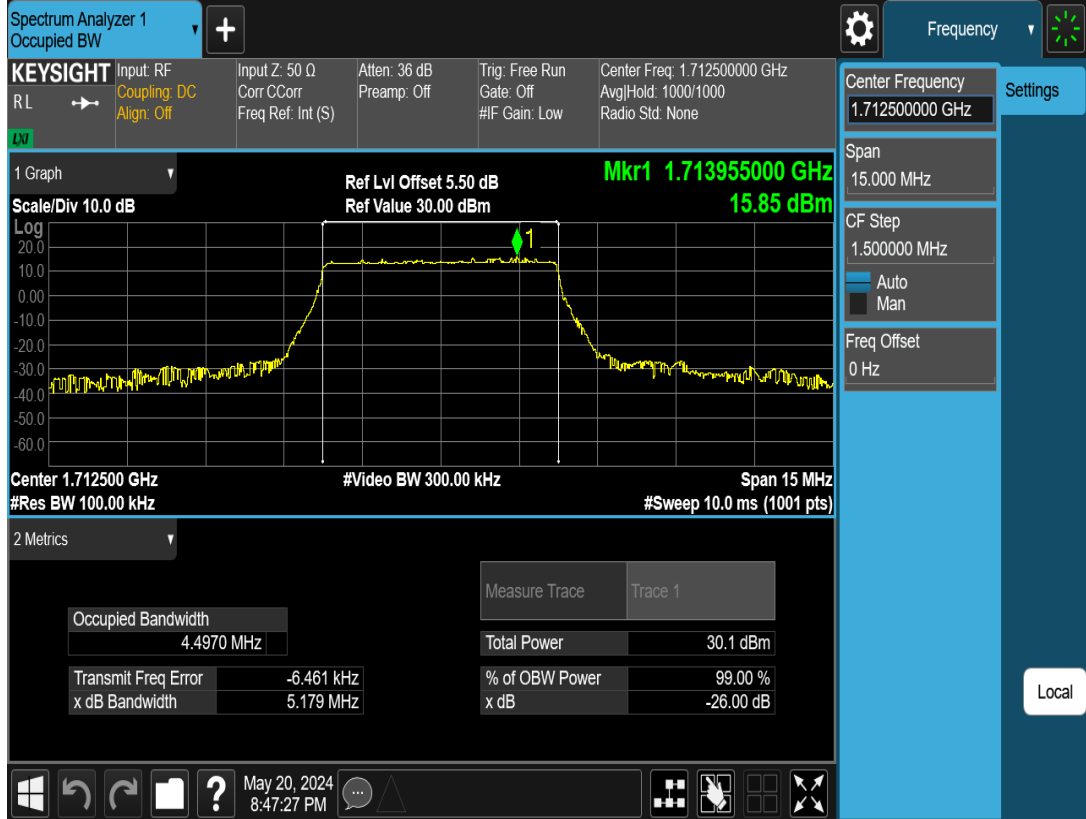
Test graph



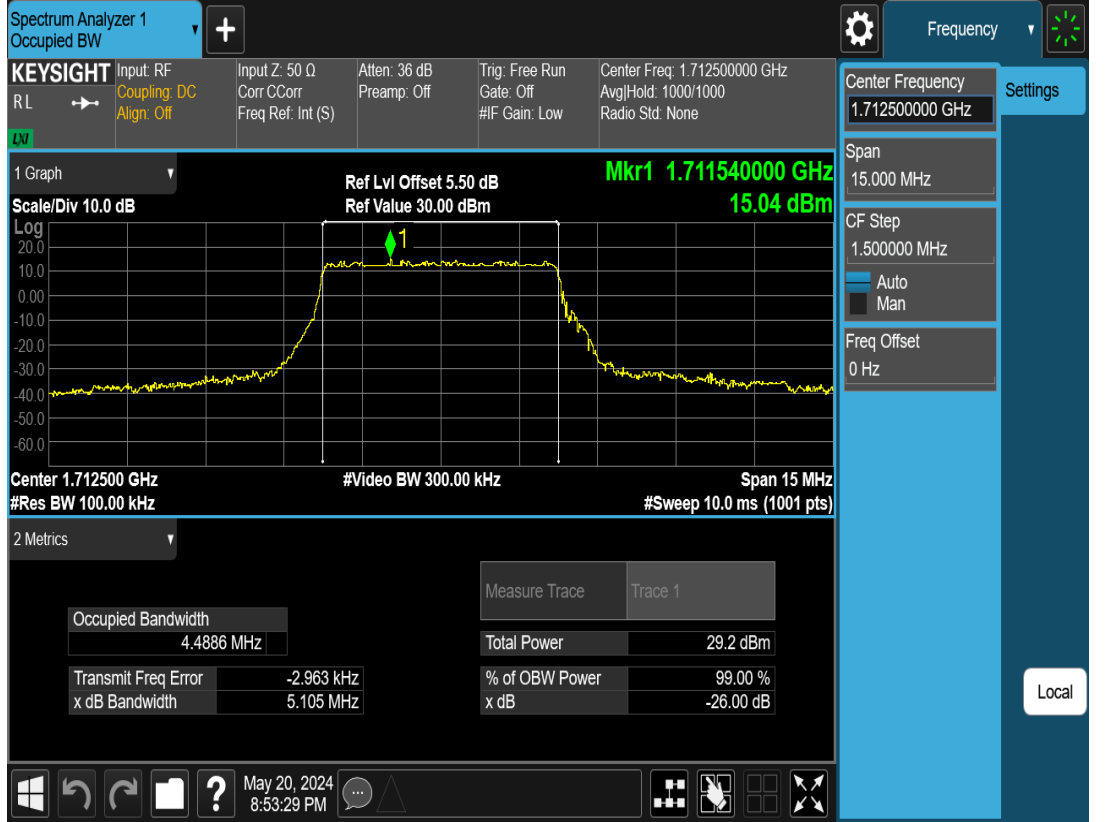
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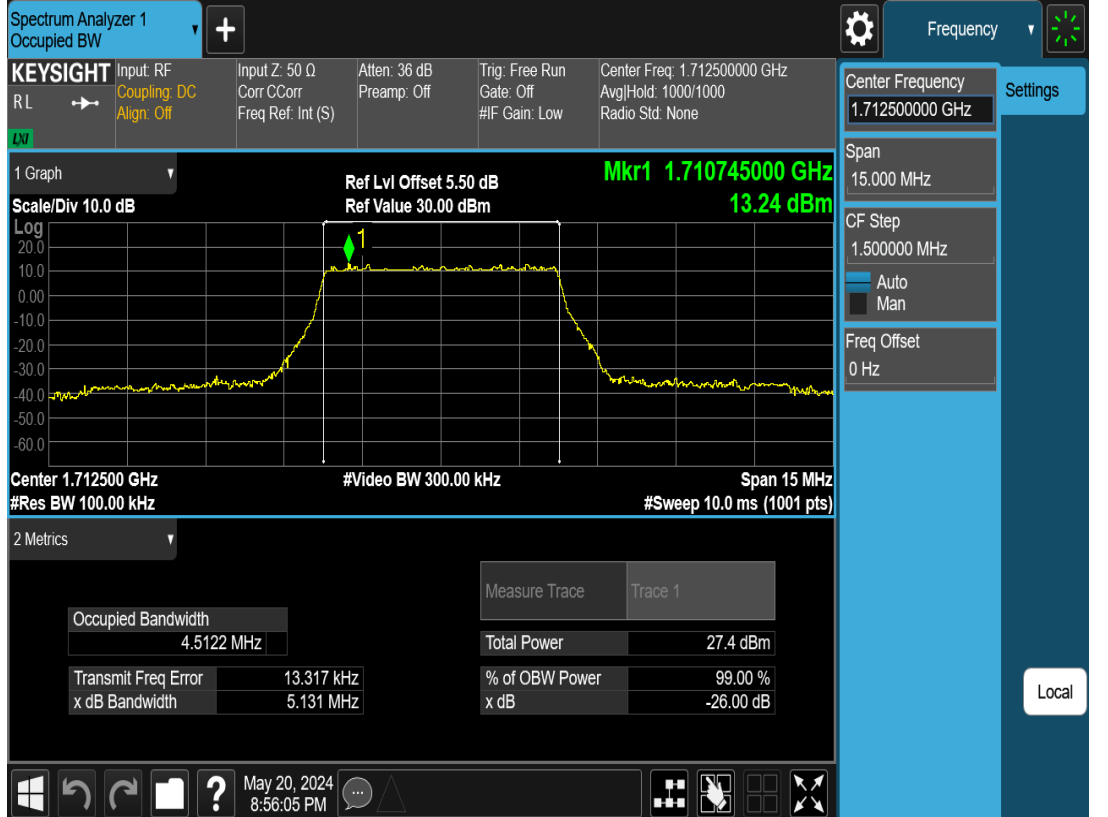
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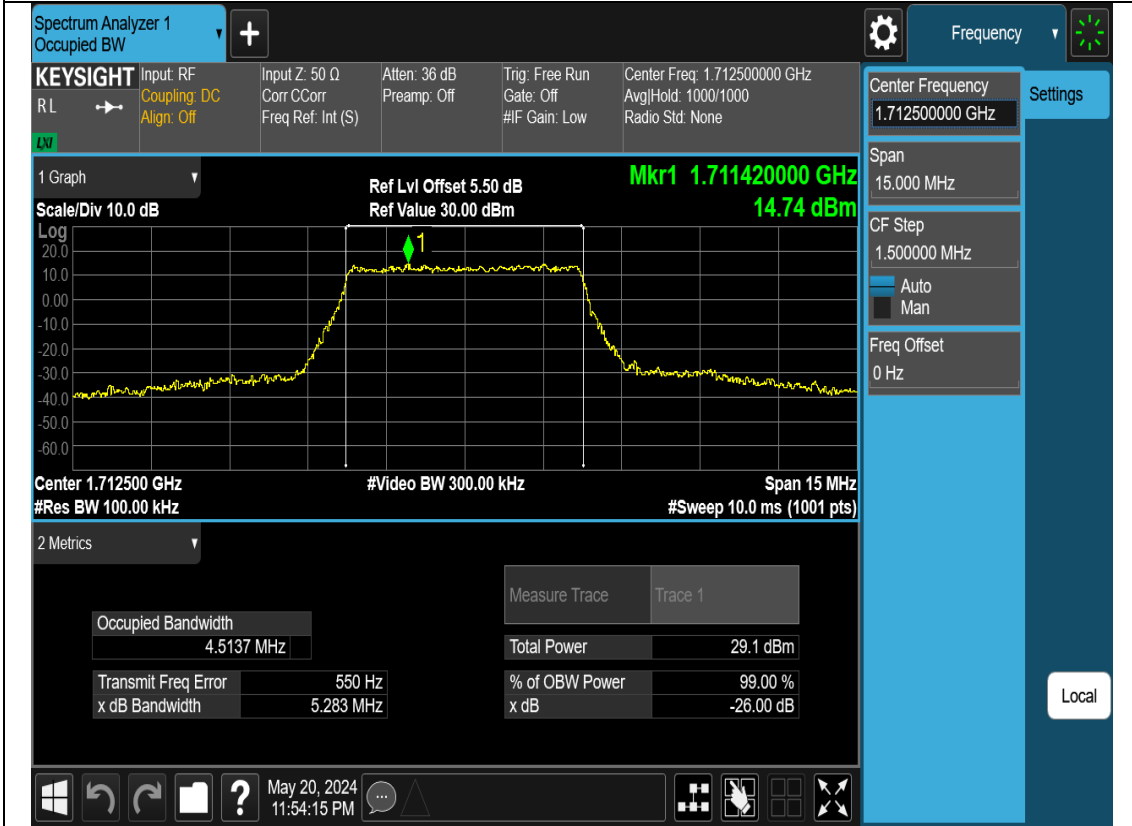
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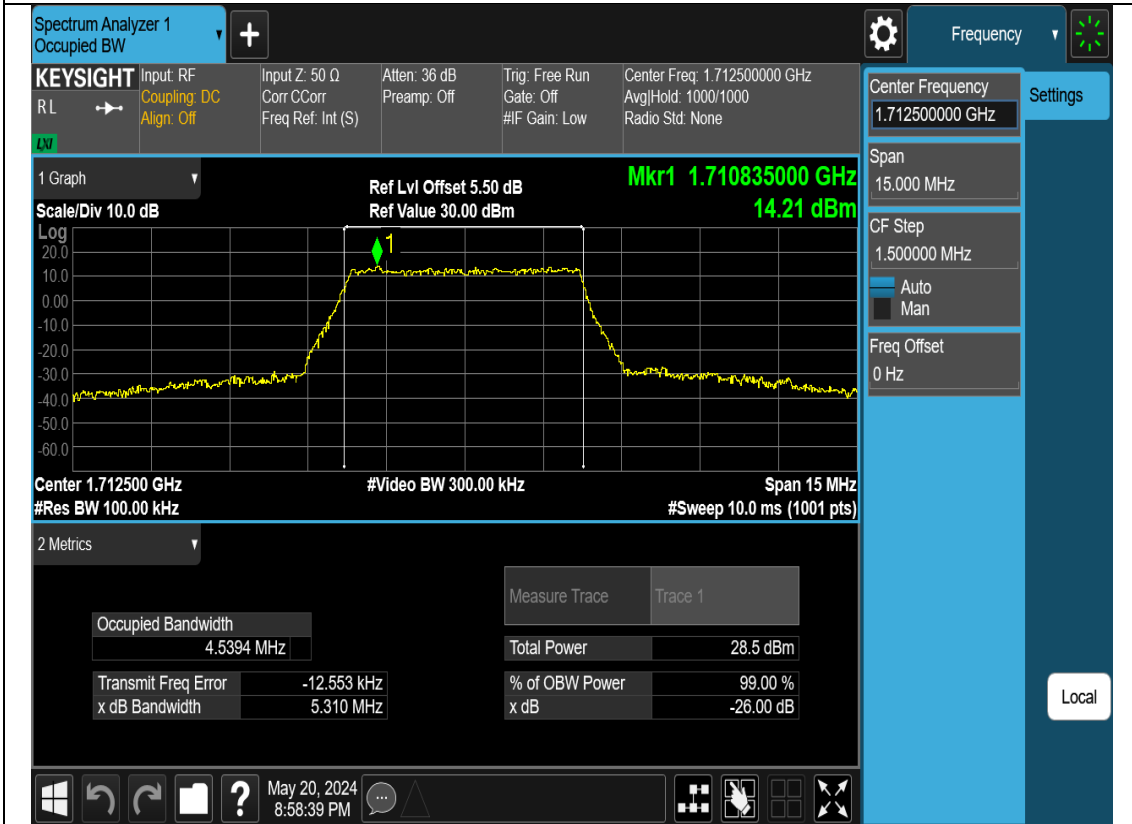
N66-5M-OBW-L-DFT-s-OFDM-256QAM



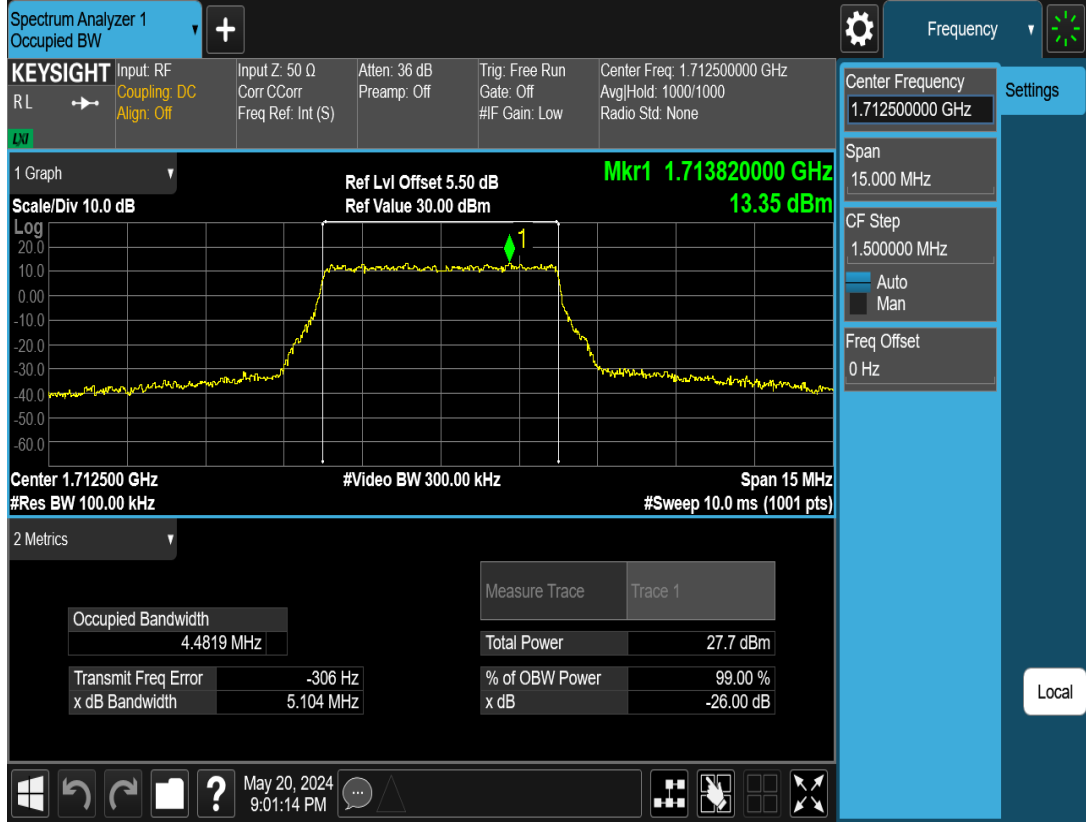
N66-5M-OBW-L-CP-OFDM-QPSK



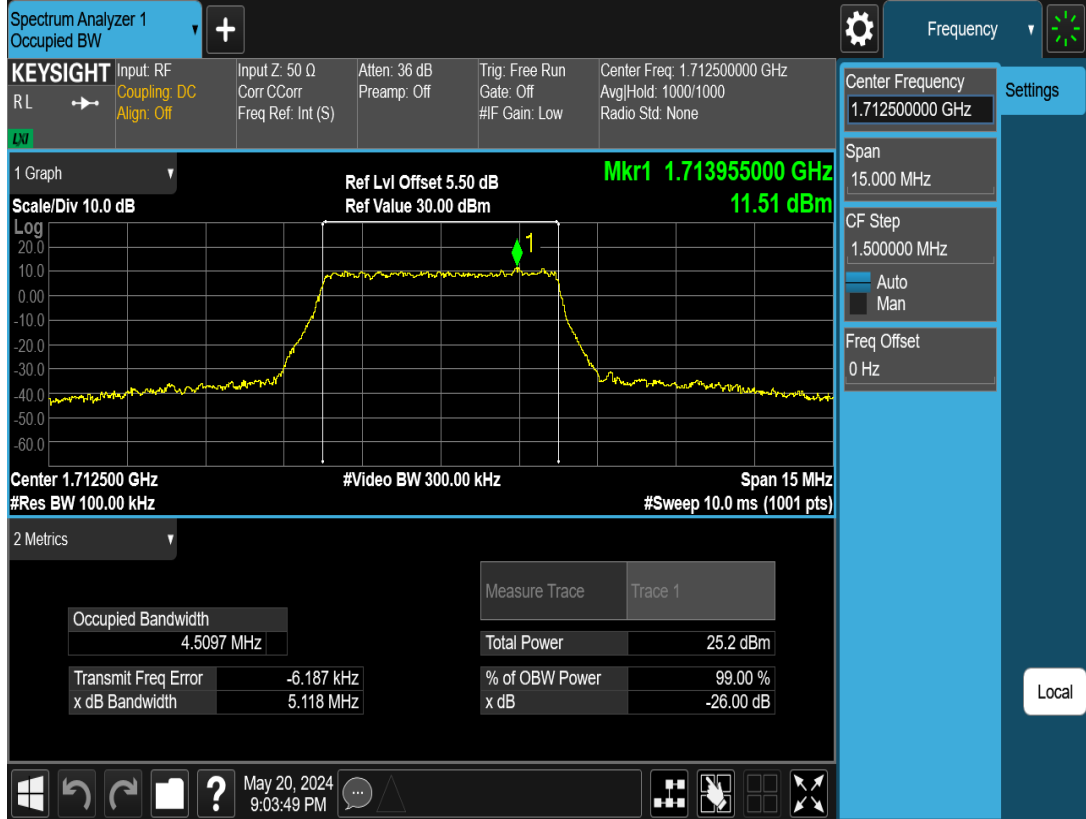
N66-5M-OBW-L-CP-OFDM-16QAM



N66-5M-OBW-L-CP-OFDM-64QAM



N66-5M-OBW-L-CP-OFDM-256QAM



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

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input RF
RL Coupling: DC
Align: Off

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: 1.745000000 GHz
Avg/Hold: 1000/1000
Radio Std: None

Center Frequency: 1.745000000 GHz

Span: 15.000 MHz

CF Step: 1.500000 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 1.742825000 GHz
16.96 dBm

Center 1.745000 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	4.5233 MHz	Total Power	31.7 dBm
Transmit Freq Error	439 Hz	% of OBW Power	99.00 %
x dB Bandwidth	5.261 MHz	x dB	-26.00 dB

May 20, 2024 11:22:39 PM

N66-5M-OBW-M-DFT-s-OFDM-QPSK

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input RF
RL Coupling: DC
Align: Off

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: 1.745000000 GHz
Avg/Hold: 1000/1000
Radio Std: None

Center Frequency: 1.745000000 GHz

Span: 15.000 MHz

CF Step: 1.500000 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 1.747085000 GHz
16.94 dBm

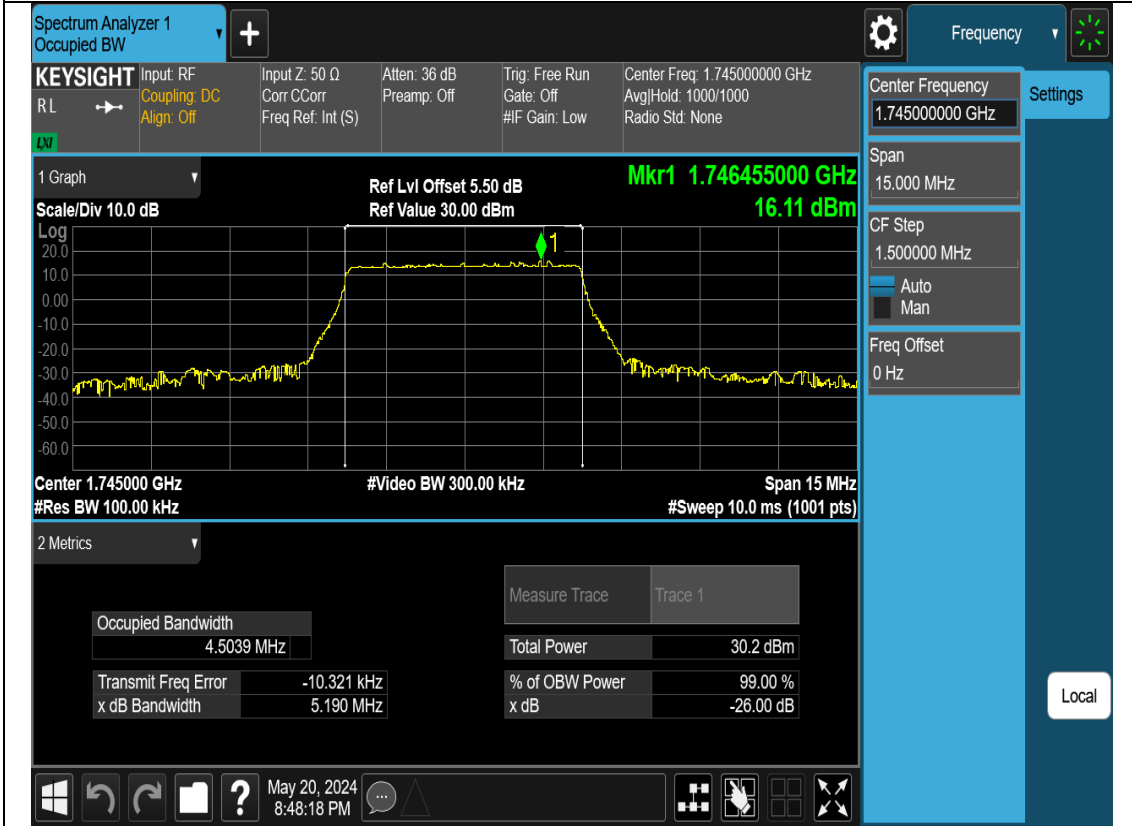
Center 1.745000 GHz
#Res BW 100.00 kHz
#Video BW 300.00 kHz
Span 15 MHz
#Sweep 10.0 ms (1001 pts)

2 Metrics

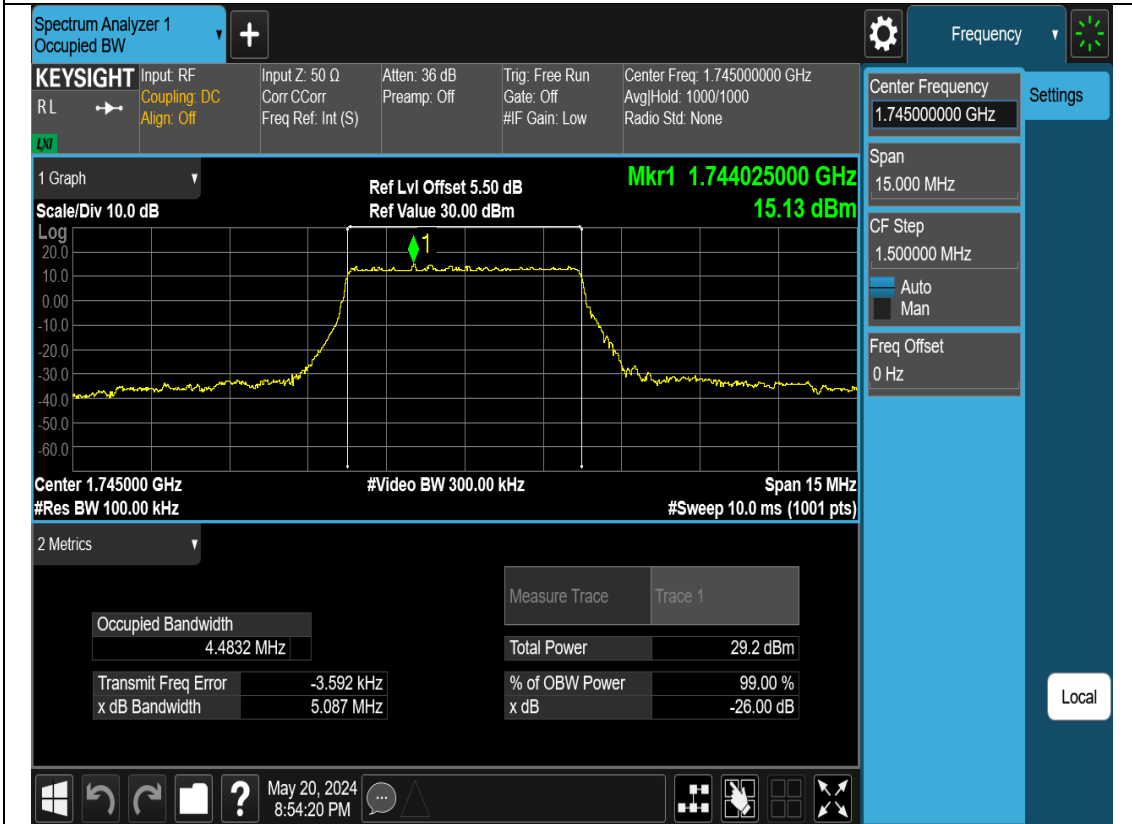
Measure Trace		Trace 1	
Occupied Bandwidth	4.5338 MHz	Total Power	31.4 dBm
Transmit Freq Error	602 Hz	% of OBW Power	99.00 %
x dB Bandwidth	5.342 MHz	x dB	-26.00 dB

May 20, 2024 8:37:10 PM

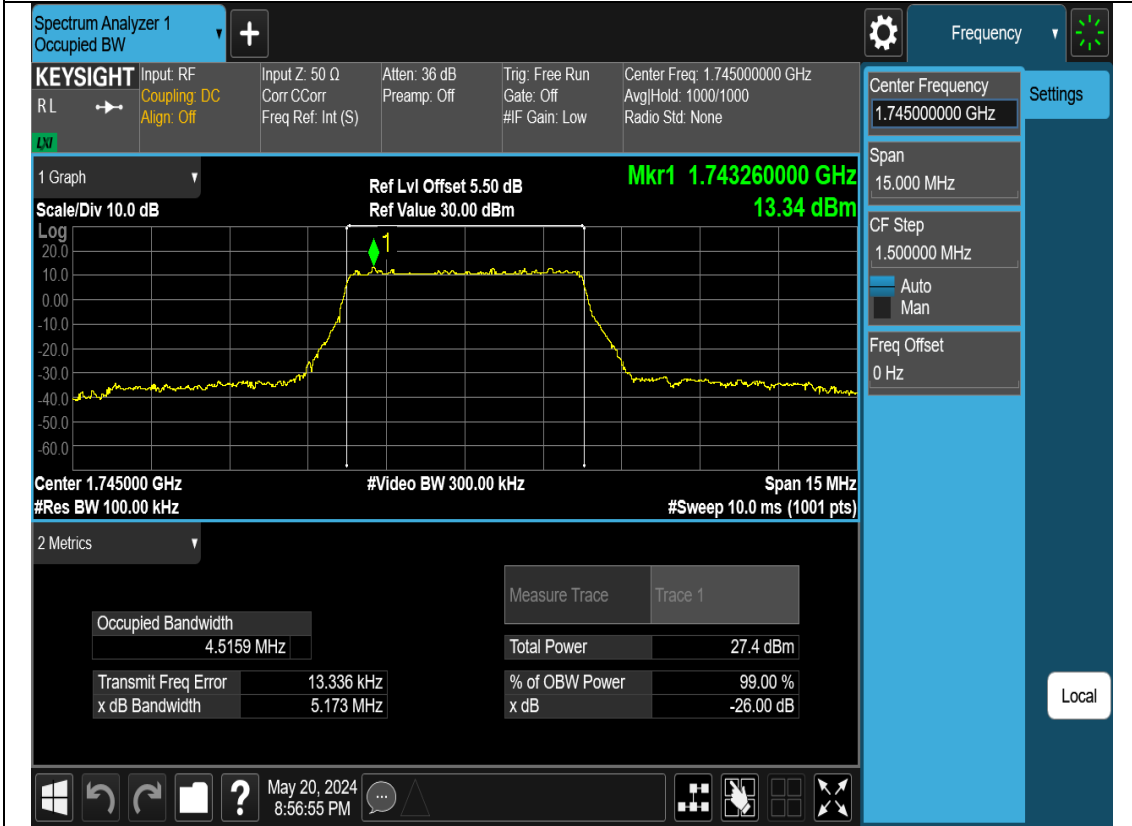
N66-5M-OBW-M-DFT-s-OFDM-16QAM



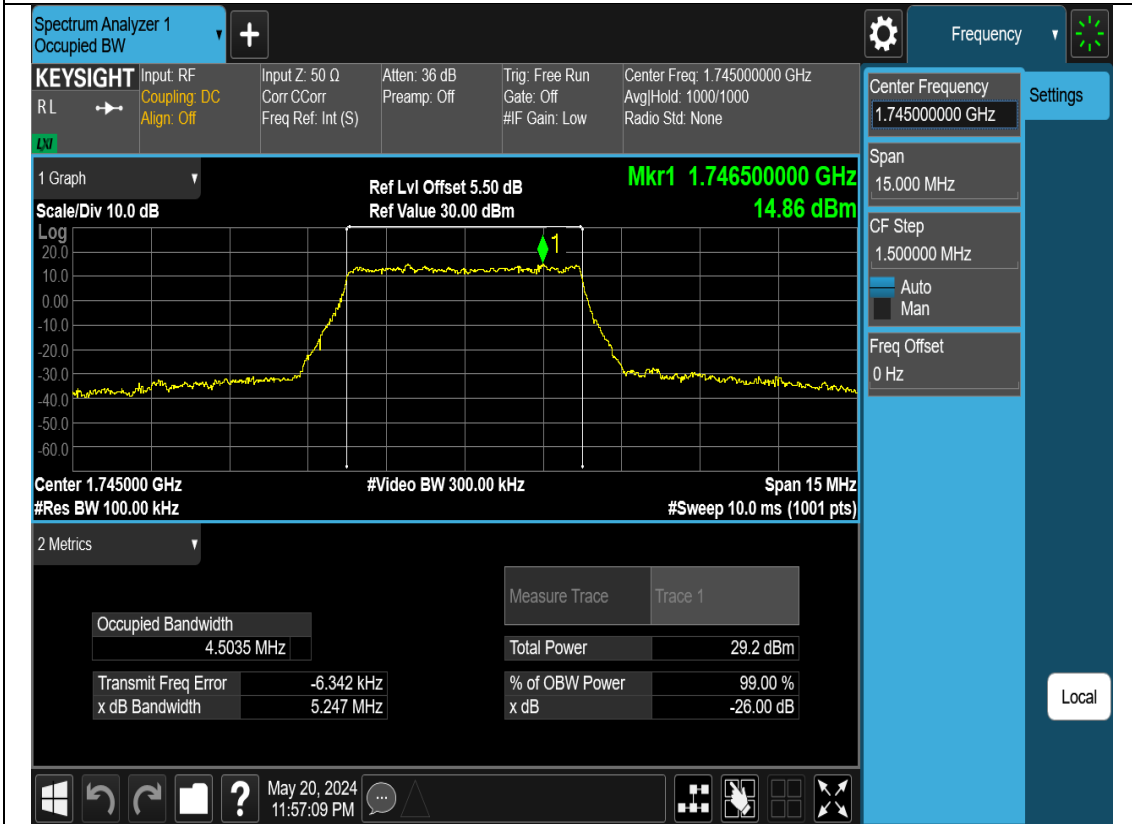
N66-5M-OBW-M-DFT-s-OFDM-64QAM



N66-5M-OBW-M-DFT-s-OFDM-256QAM



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



N66-5M-OBW-M-CP-OFDM-16QAM

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input RF
RL Coupling: DC
Align: Off

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: 1.74500000 GHz
Avg/Hold: 1000/1000
Radio Std: None

Center Frequency: 1.74500000 GHz

Span: 15.000 MHz

CF Step: 1.500000 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 1.743350000 GHz
14.19 dBm

Center 1.745000 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	4.5074 MHz	Total Power	28.5 dBm
Transmit Freq Error	179 Hz	% of OBW Power	99.00 %
x dB Bandwidth	5.222 MHz	x dB	-26.00 dB

May 20, 2024
8:59:30 PM

Local

N66-5M-OBW-M-CP-OFDM-64QAM

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input RF
RL Coupling: DC
Align: Off

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: 1.74500000 GHz
Avg/Hold: 1000/1000
Radio Std: None

Center Frequency: 1.74500000 GHz

Span: 15.000 MHz

CF Step: 1.500000 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 1.746320000 GHz
13.55 dBm

Center 1.745000 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	4.4922 MHz	Total Power	28.0 dBm
Transmit Freq Error	-3.641 kHz	% of OBW Power	99.00 %
x dB Bandwidth	5.067 MHz	x dB	-26.00 dB

May 20, 2024
9:02:05 PM

Local

N66-5M-OBW-M-CP-OFDM-256QAM

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input RF
RL Coupling: DC
Align: Off

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: 1.74500000 GHz
Avg/Hold: 1000/1000
Radio Std: None

Center Frequency: 1.74500000 GHz

Span: 15.000 MHz

CF Step: 1.500000 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 1.746470000 GHz
11.63 dBm

Center 1.745000 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	4.5041 MHz	Total Power	25.3 dBm
Transmit Freq Error	-1.707 kHz	% of OBW Power	99.00 %
x dB Bandwidth	5.132 MHz	x dB	-26.00 dB

May 20, 2024 9:04:47 PM

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

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input RF
RL Coupling: DC
Align: Off

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: 1.777500000 GHz
Avg/Hold: 1000/1000
Radio Std: None

Center Frequency: 1.777500000 GHz

Span: 15.000 MHz

CF Step: 1.500000 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 1.778625000 GHz
17.80 dBm

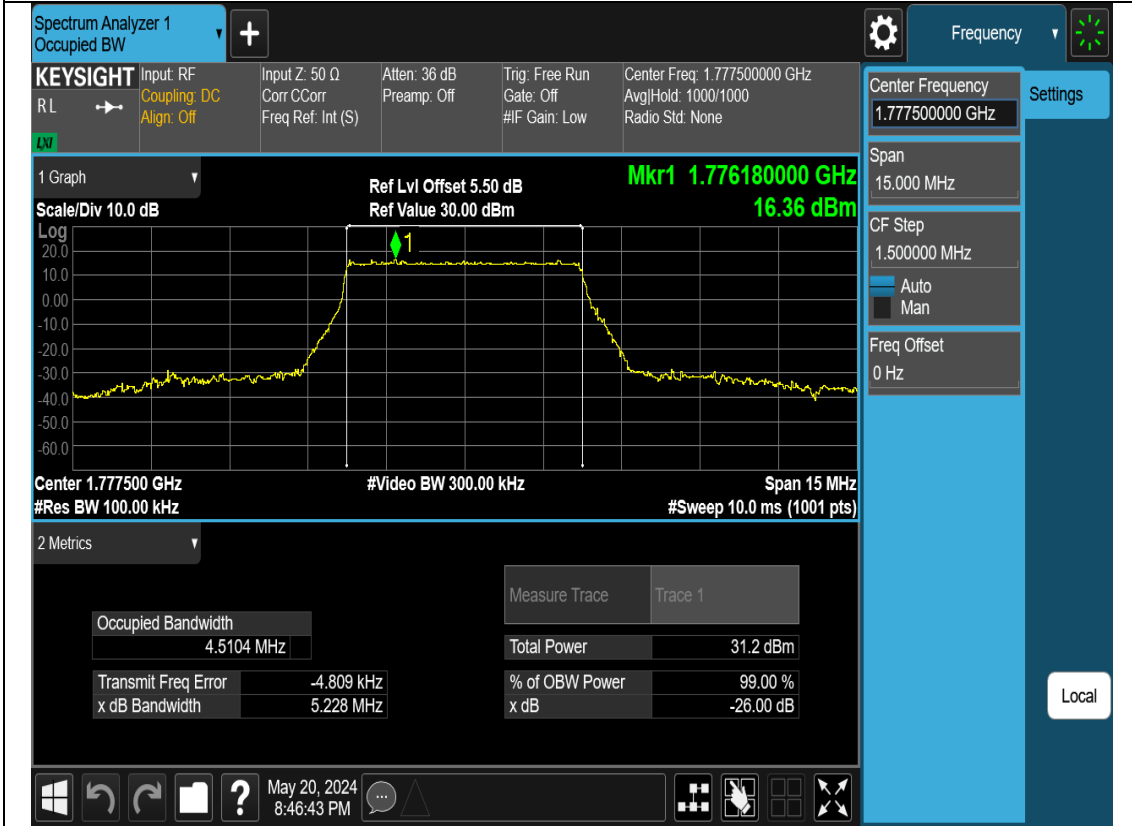
Center 1.777500 GHz
#Res BW 100.00 kHz
#Video BW 300.00 kHz
Span 15 MHz
#Sweep 10.0 ms (1001 pts)

2 Metrics

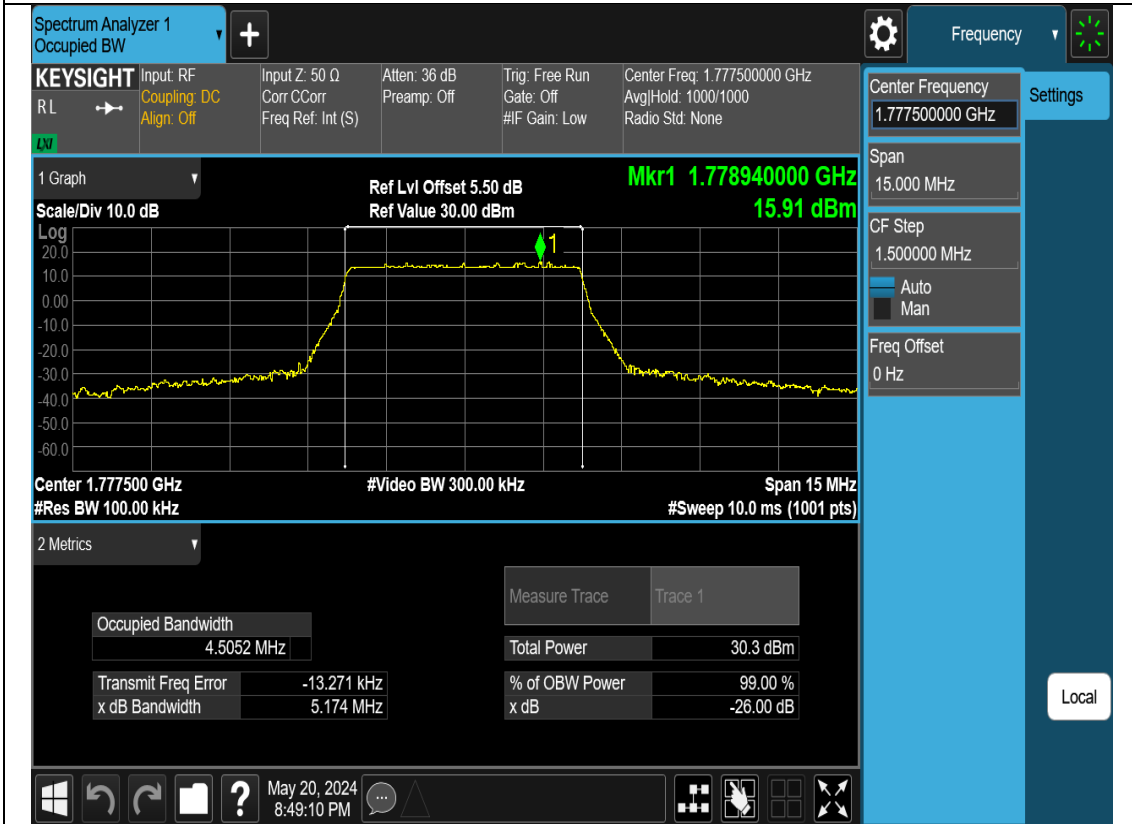
Measure Trace		Trace 1	
Occupied Bandwidth	4.4901 MHz	Total Power	32.1 dBm
Transmit Freq Error	-6.085 kHz	% of OBW Power	99.00 %
x dB Bandwidth	5.131 MHz	x dB	-26.00 dB

May 20, 2024 11:35:06 PM

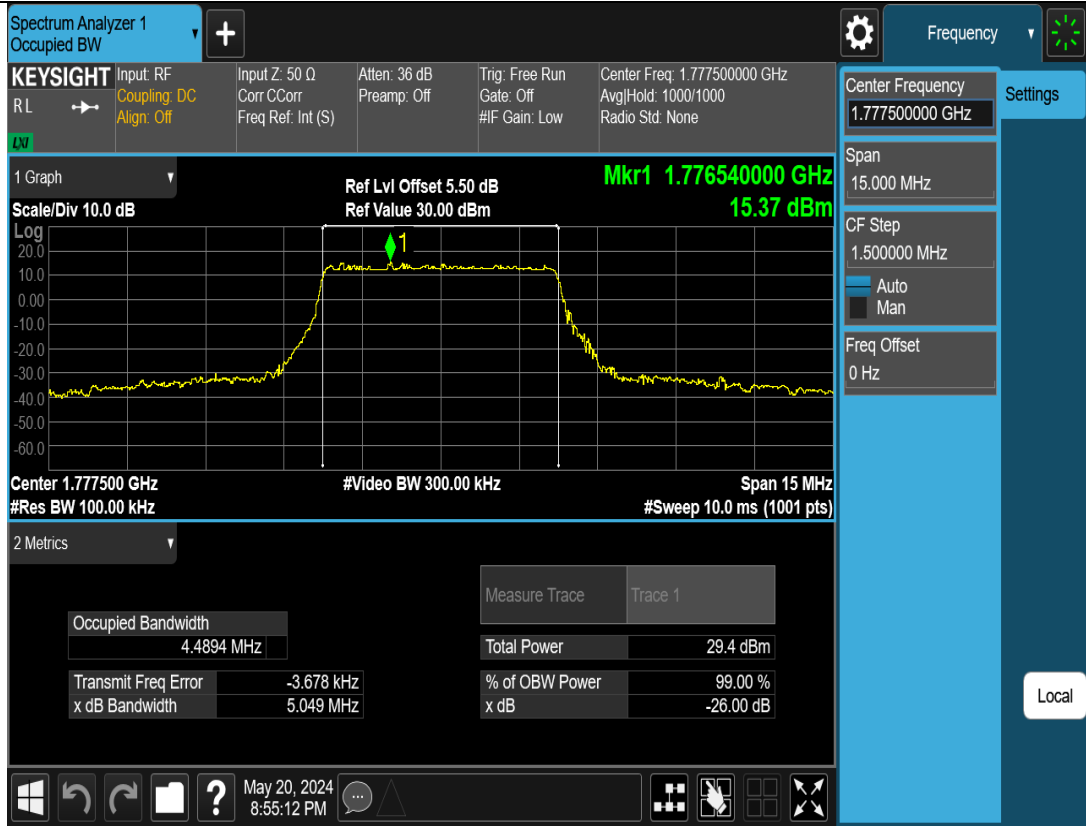
N66-5M-OBW-H-DFT-s-OFDM-QPSK



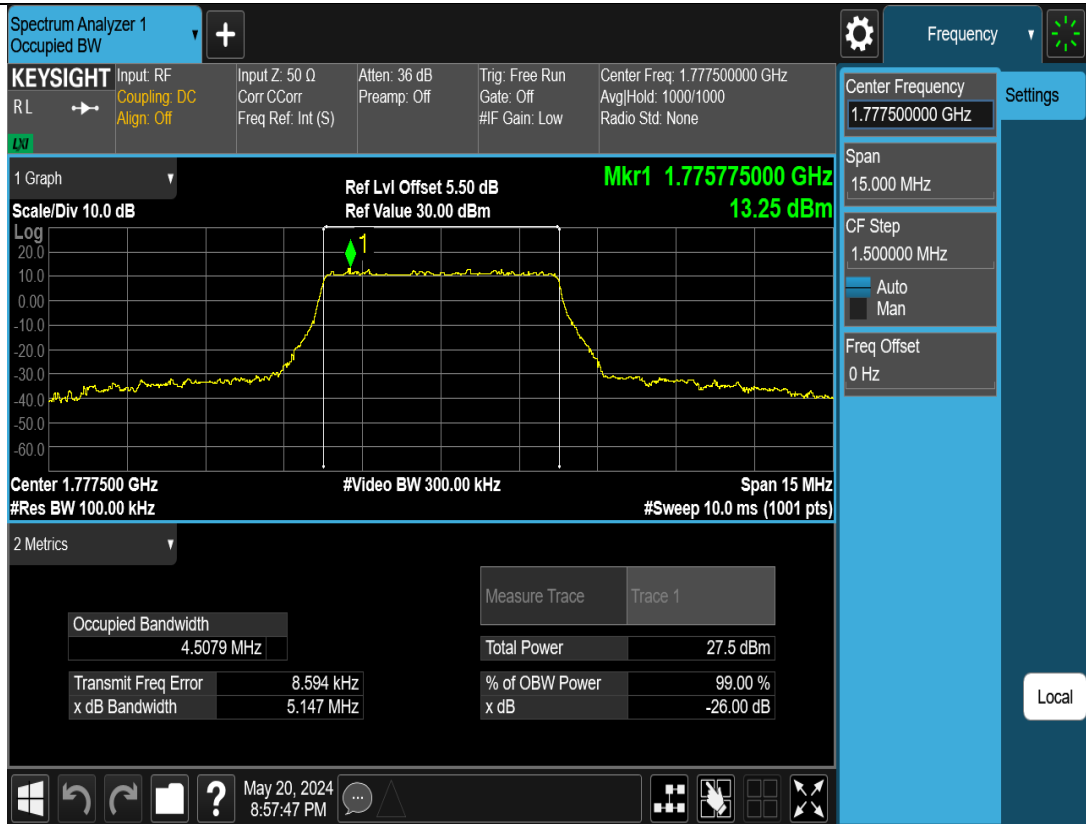
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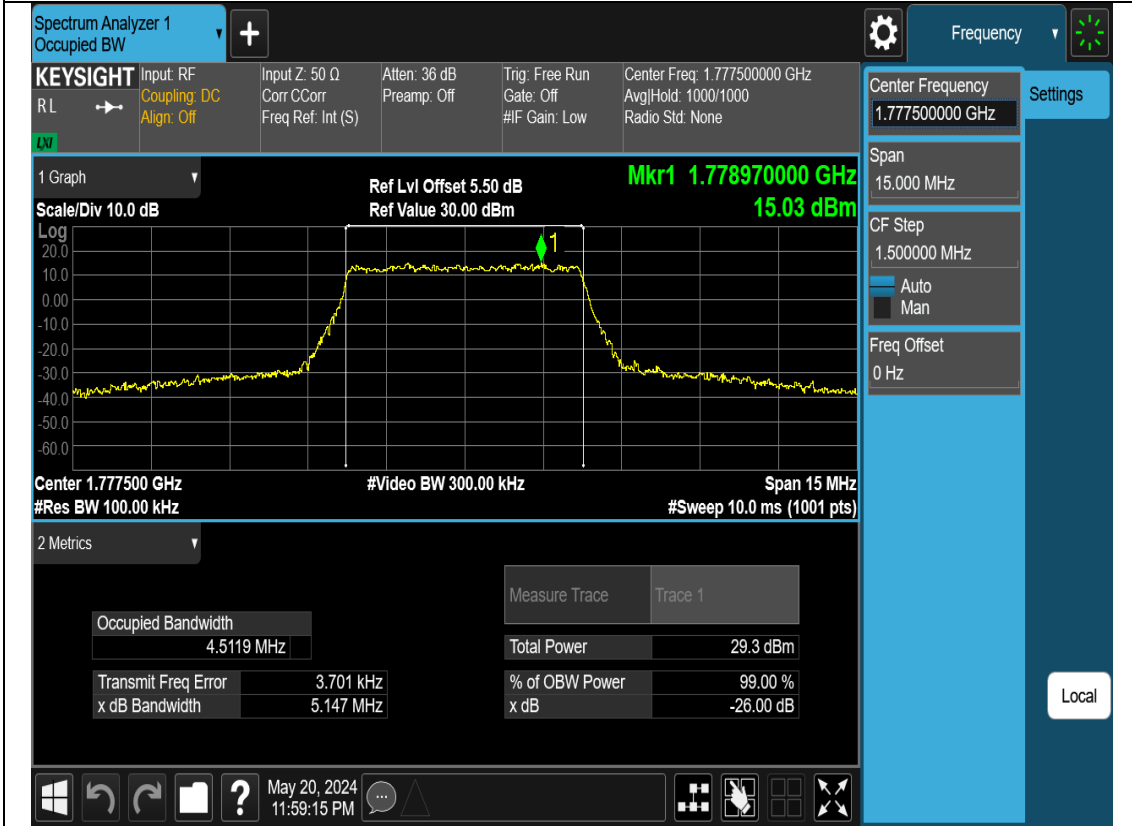
N66-5M-OBW-H-DFT-s-OFDM-64QAM



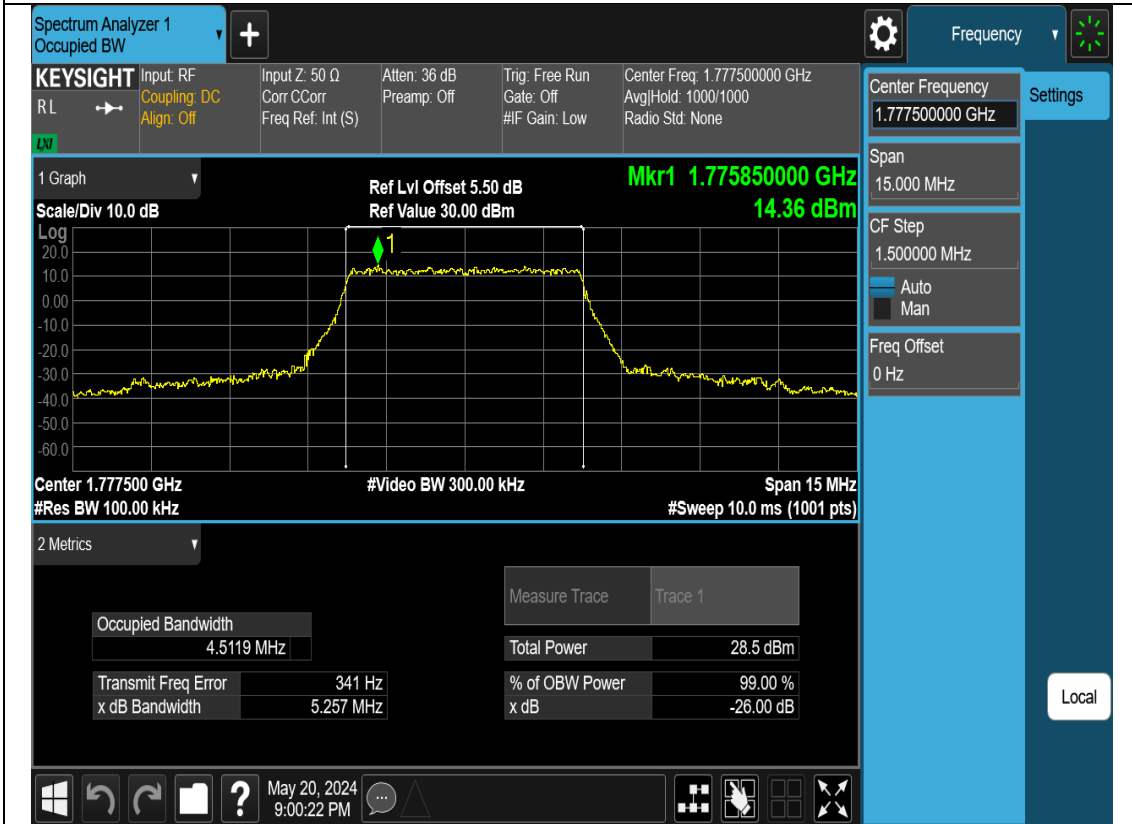
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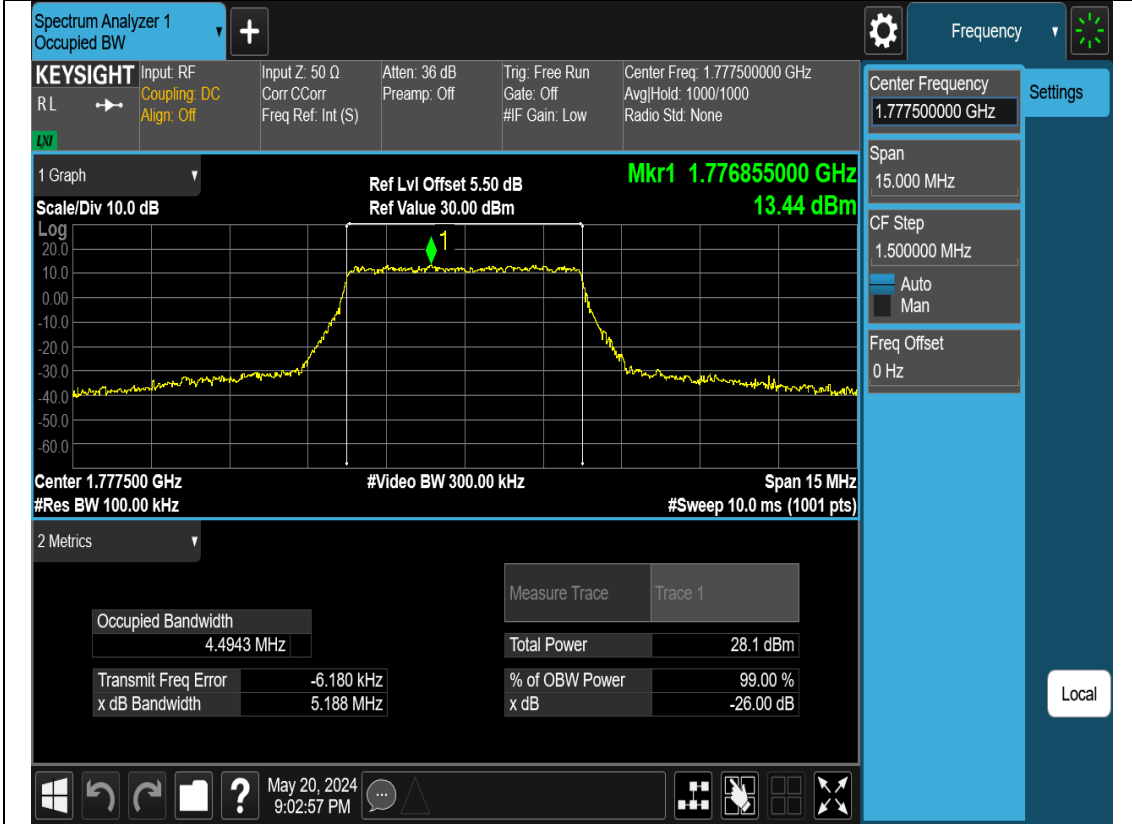
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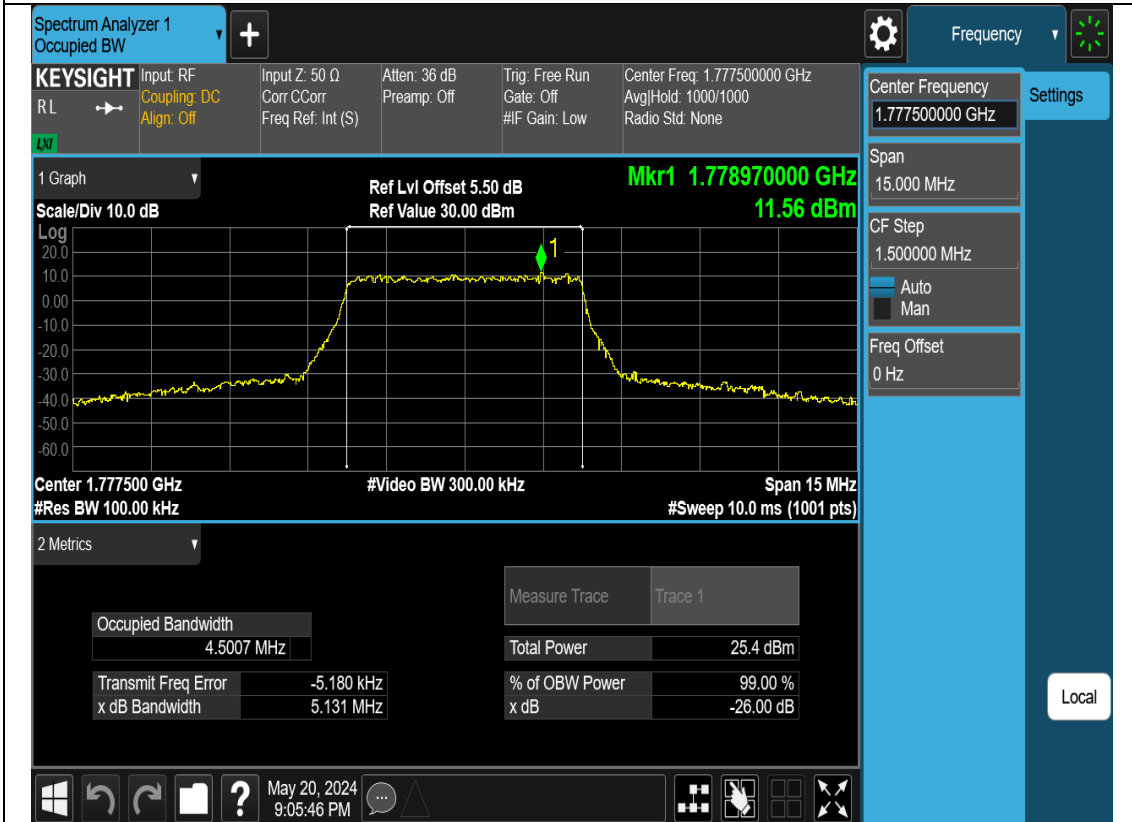
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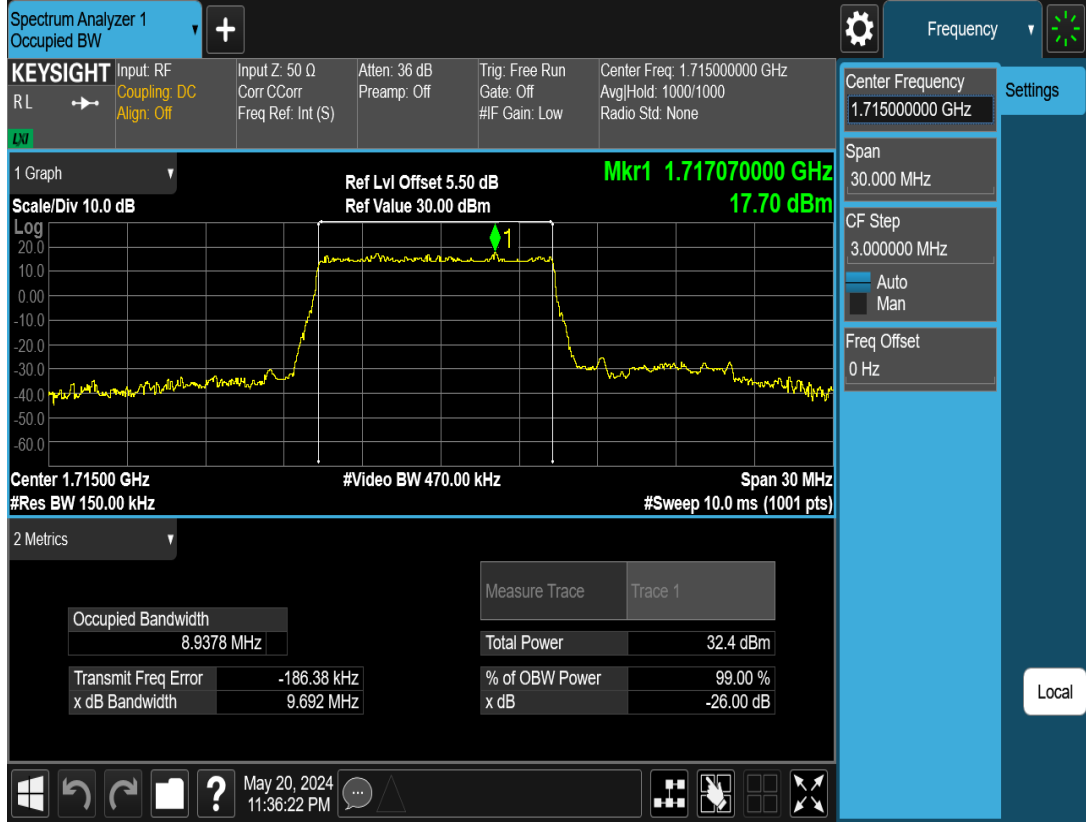
N66-5M-OBW-H-CP-OFDM-64QAM



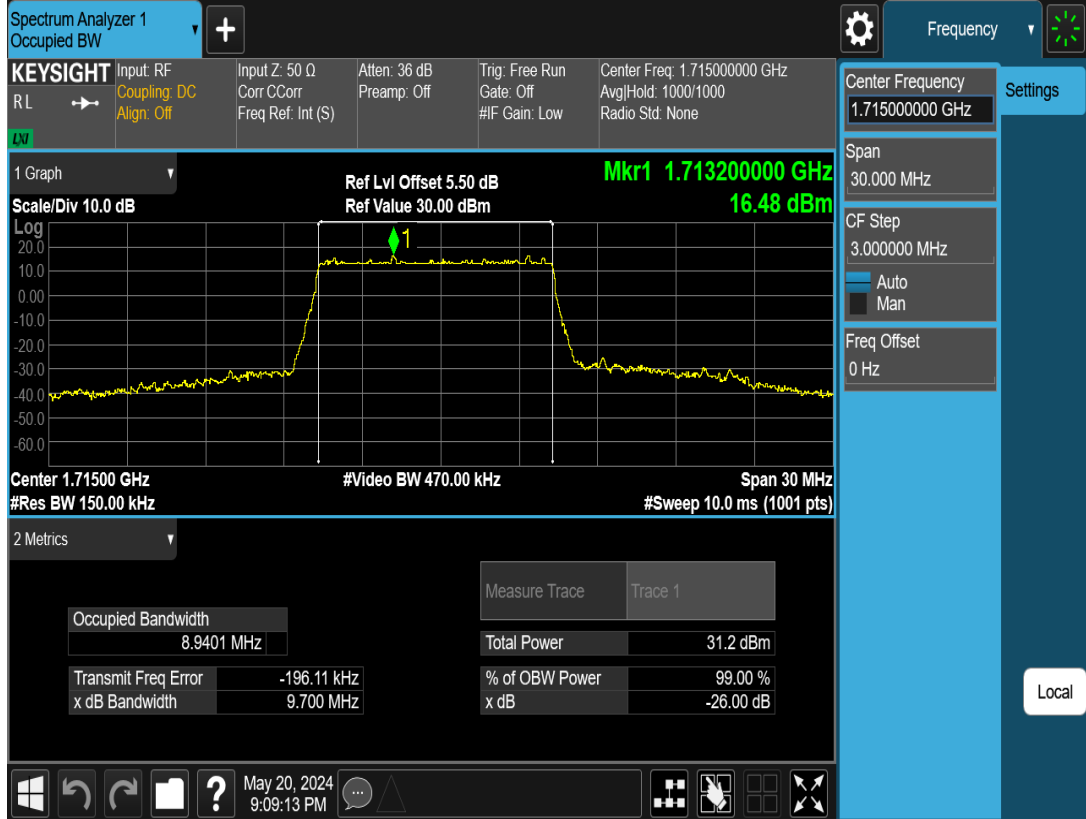
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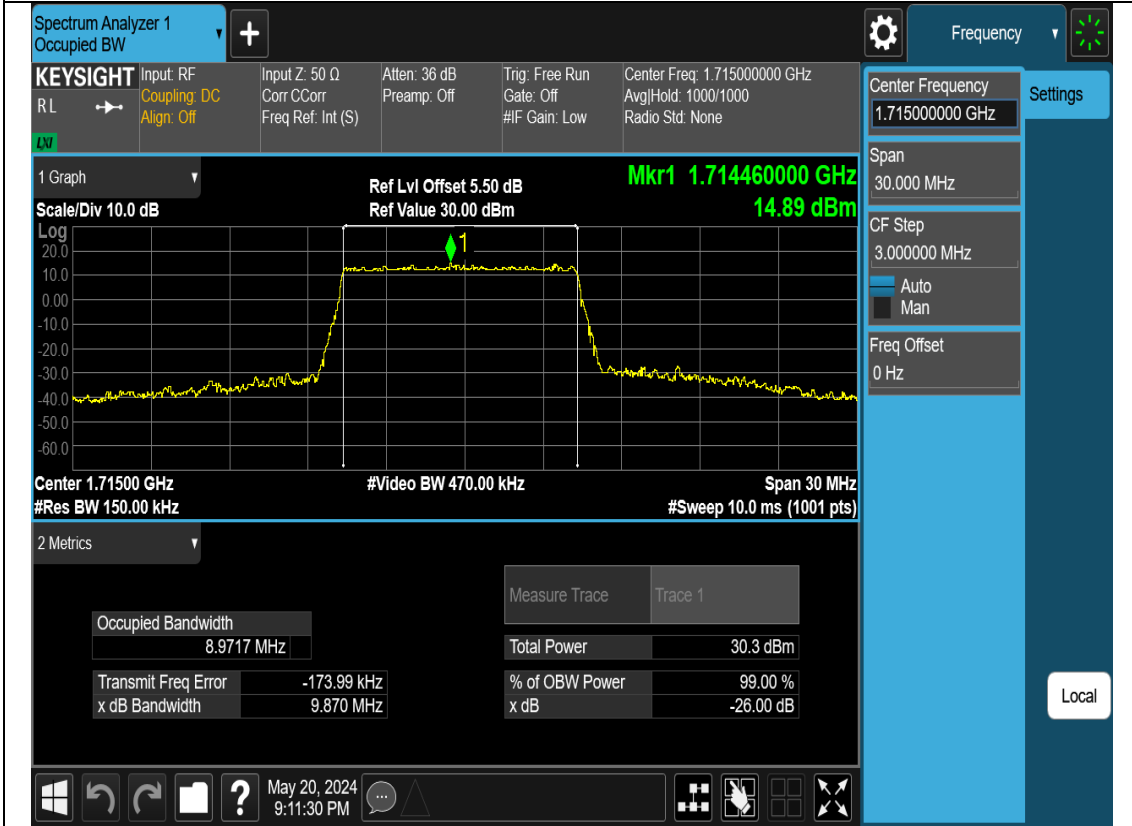
N66-10M-OBW-L-DFT-s-OFDM-Pi2 BPSK



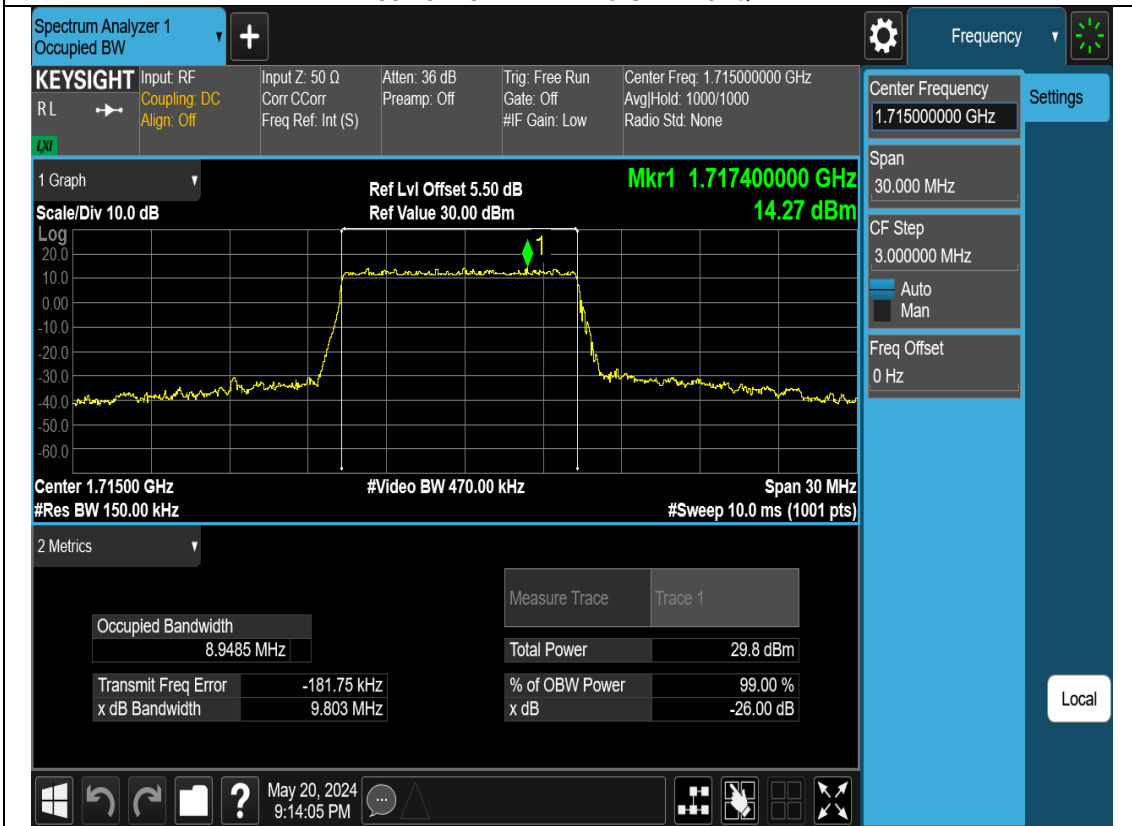
N66-10M-OBW-L-DFT-s-OFDM-QPSK



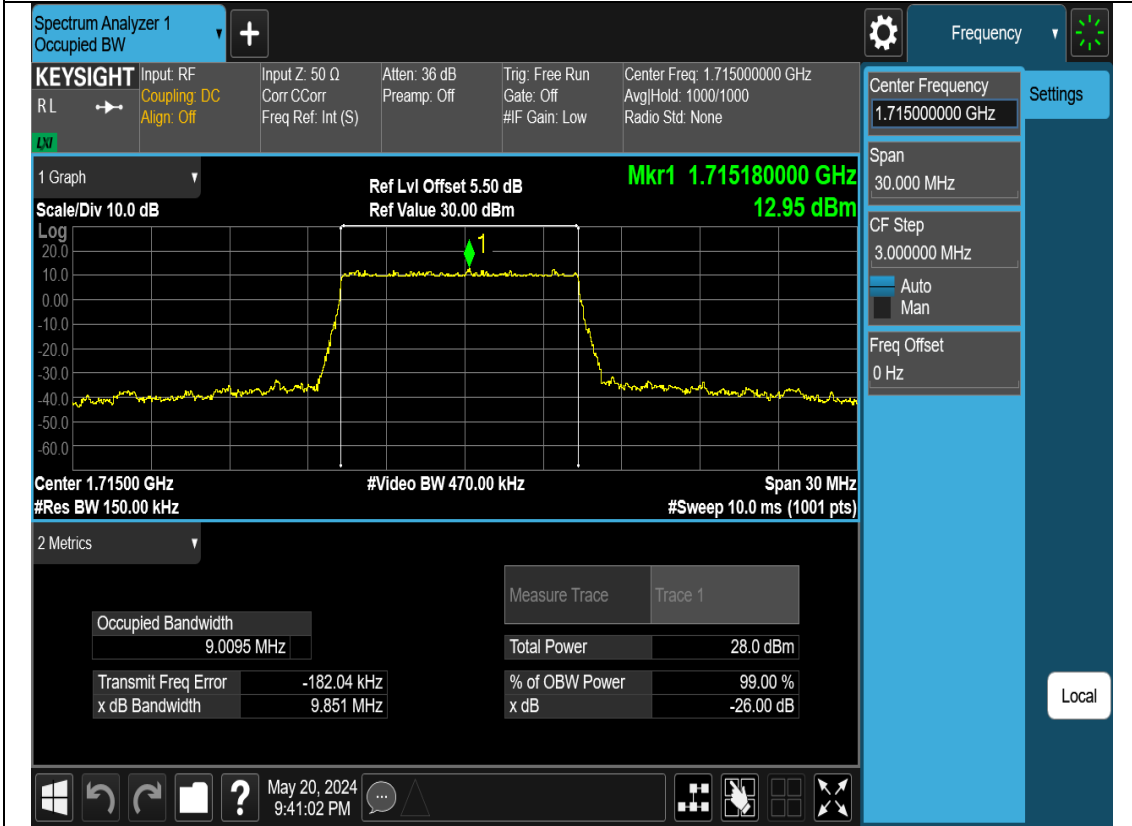
N66-10M-OBW-L-DFT-s-OFDM-16QAM



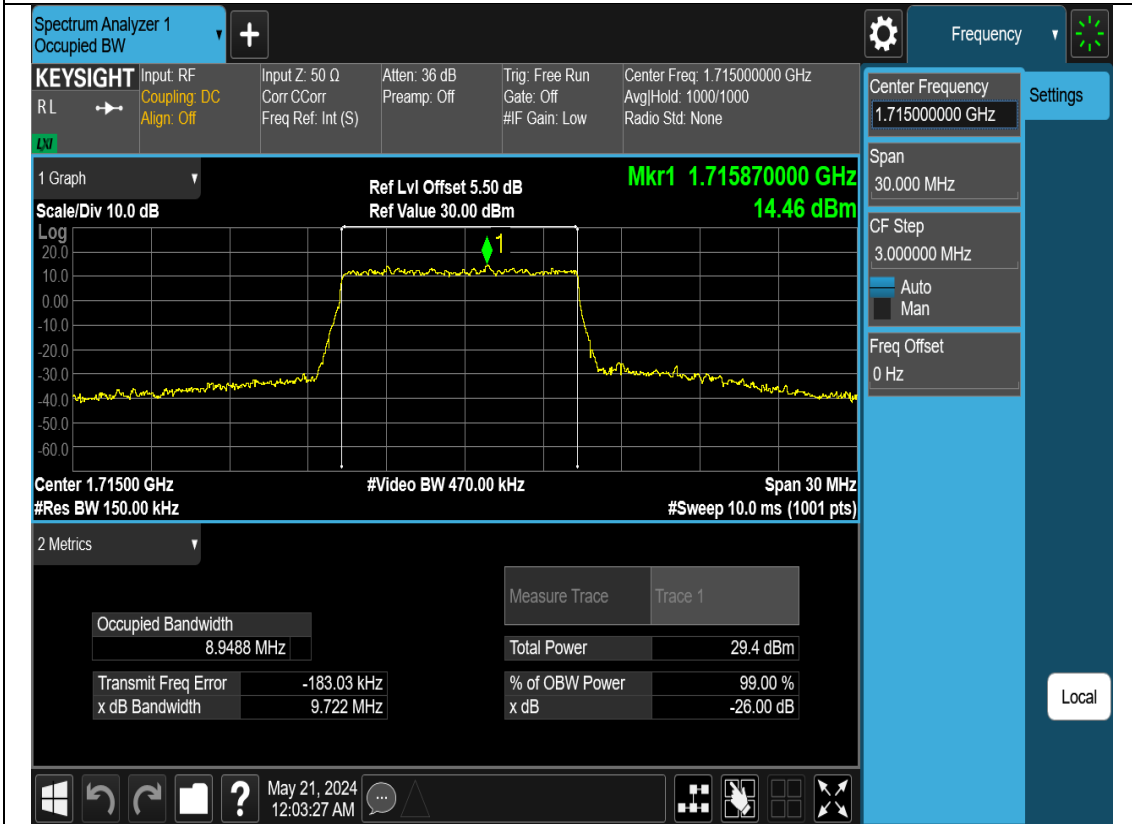
N66-10M-OBW-L-DFT-s-OFDM-64QAM



N66-10M-OBW-L-DFT-s-OFDM-256QAM



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



N66-10M-OBW-L-CP-OFDM-16QAM

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input RF
RL Coupling: DC
Align: Off

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

Atten: 36 dB
Preamp: Off

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

Center Freq: 1.71500000 GHz
Avg/Hold: 1000/1000
Radio Std: None

Center Frequency: 1.71500000 GHz

Span: 30.000 MHz

CF Step: 3.000000 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 1.717820000 GHz
13.81 dBm

Center 1.71500 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	9.2959 MHz	Total Power	29.6 dBm
Transmit Freq Error	-2.870 kHz	% of OBW Power	99.00 %
x dB Bandwidth	10.13 MHz	x dB	-26.00 dB

May 20, 2024 10:02:32 PM

Local

N66-10M-OBW-L-CP-OFDM-64QAM

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input RF
RL Coupling: DC
Align: Off

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

Atten: 36 dB
Preamp: Off

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

Center Freq: 1.71500000 GHz
Avg/Hold: 1000/1000
Radio Std: None

Center Frequency: 1.71500000 GHz

Span: 30.000 MHz

CF Step: 3.000000 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 1.711880000 GHz
13.59 dBm

Center 1.71500 GHz
#Res BW 150.00 kHz
#Video BW 470.00 kHz
Span 30 MHz
#Sweep 10.0 ms (1001 pts)

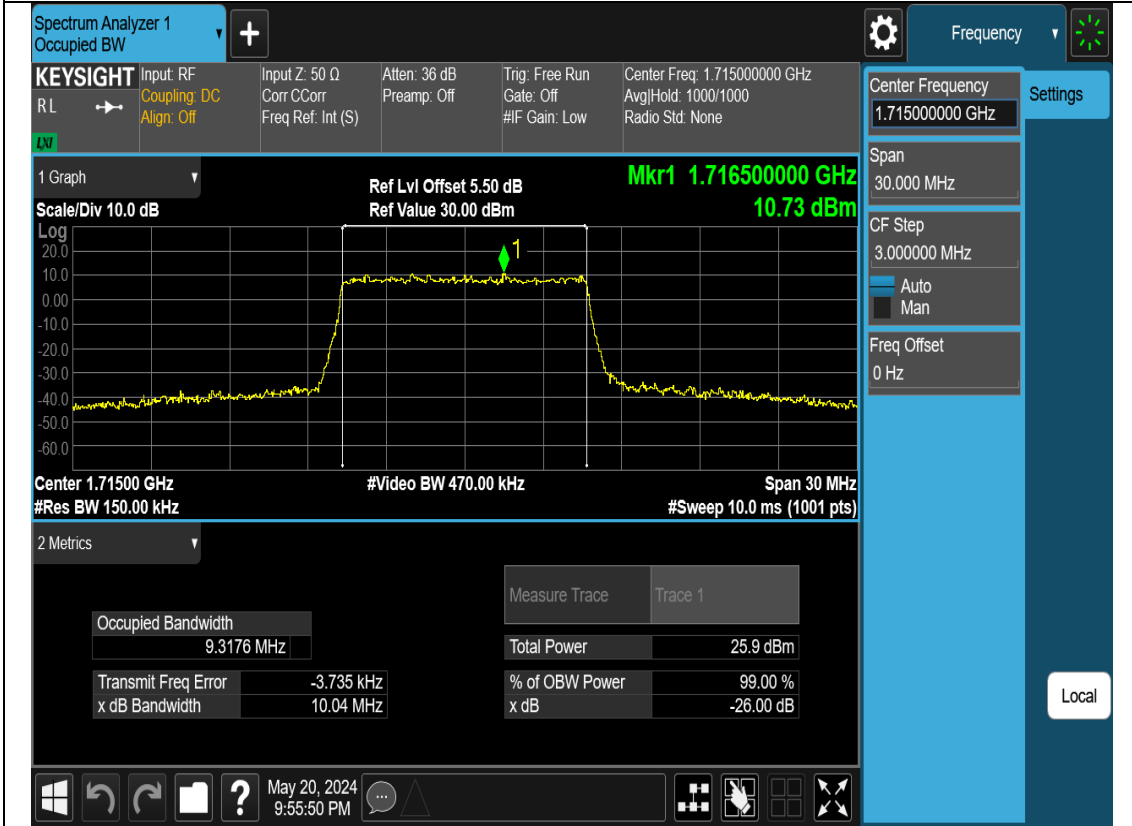
2 Metrics

Measure Trace		Trace 1	
Occupied Bandwidth	9.2944 MHz	Total Power	29.1 dBm
Transmit Freq Error	-3.262 kHz	% of OBW Power	99.00 %
x dB Bandwidth	10.14 MHz	x dB	-26.00 dB

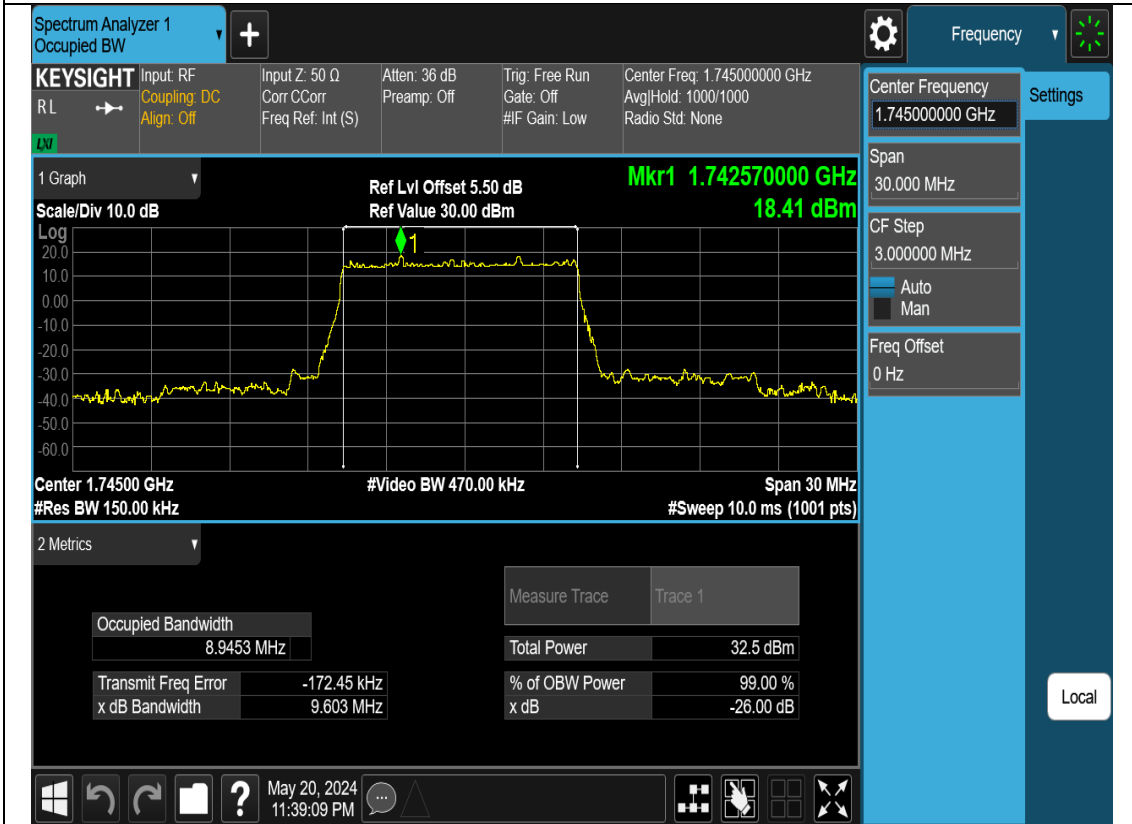
May 20, 2024 10:03:58 PM

Local

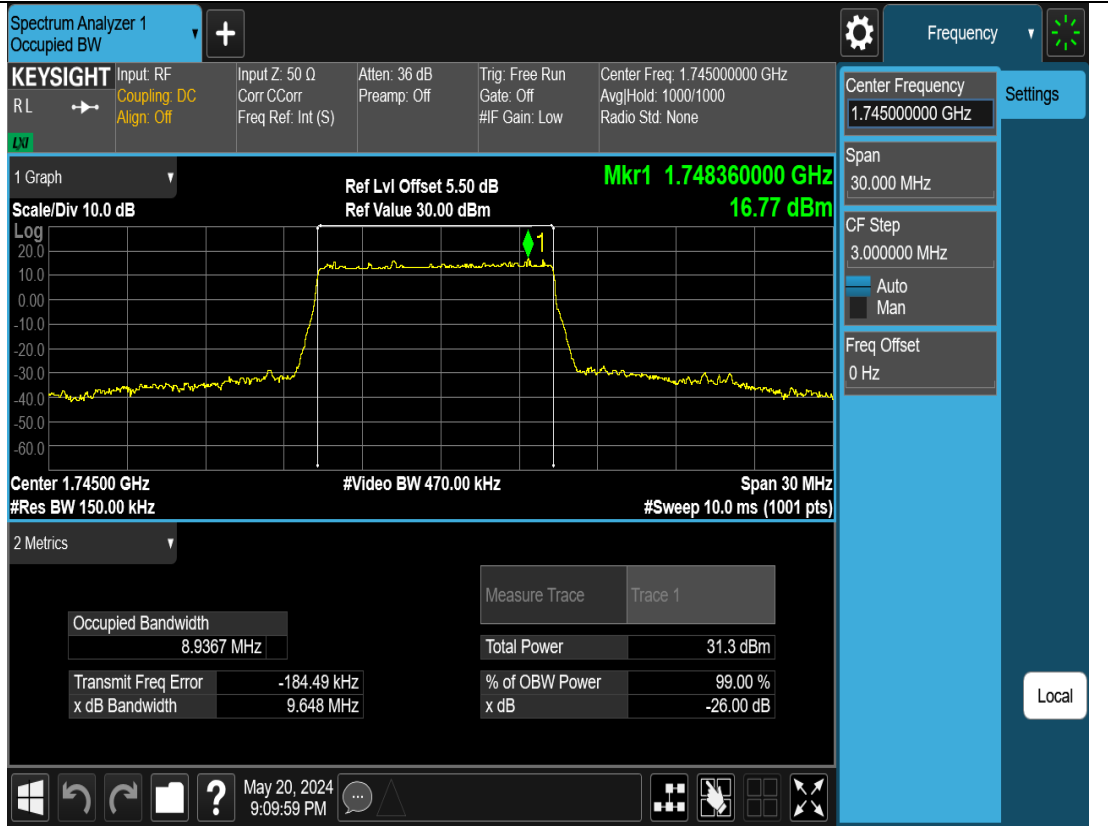
N66-10M-OBW-L-CP-OFDM-256QAM



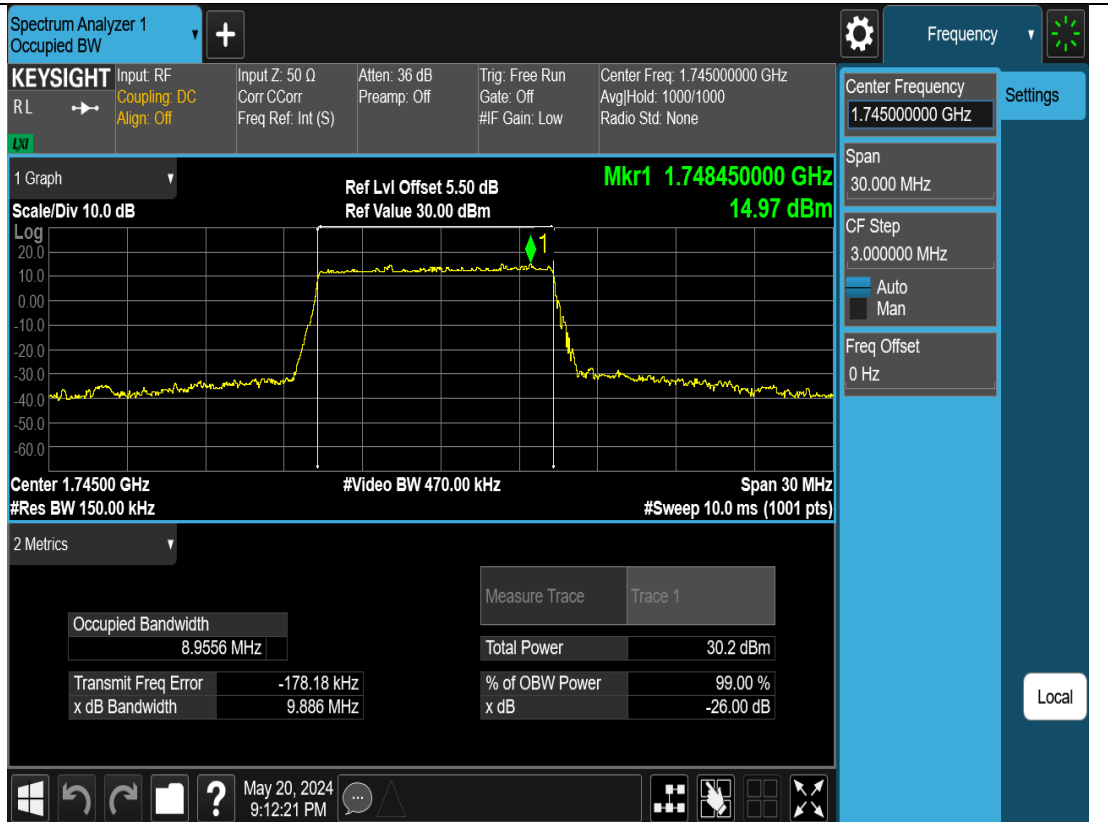
N66-10M-OBW-M-DFT-s-OFDM-Pi2 BPSK



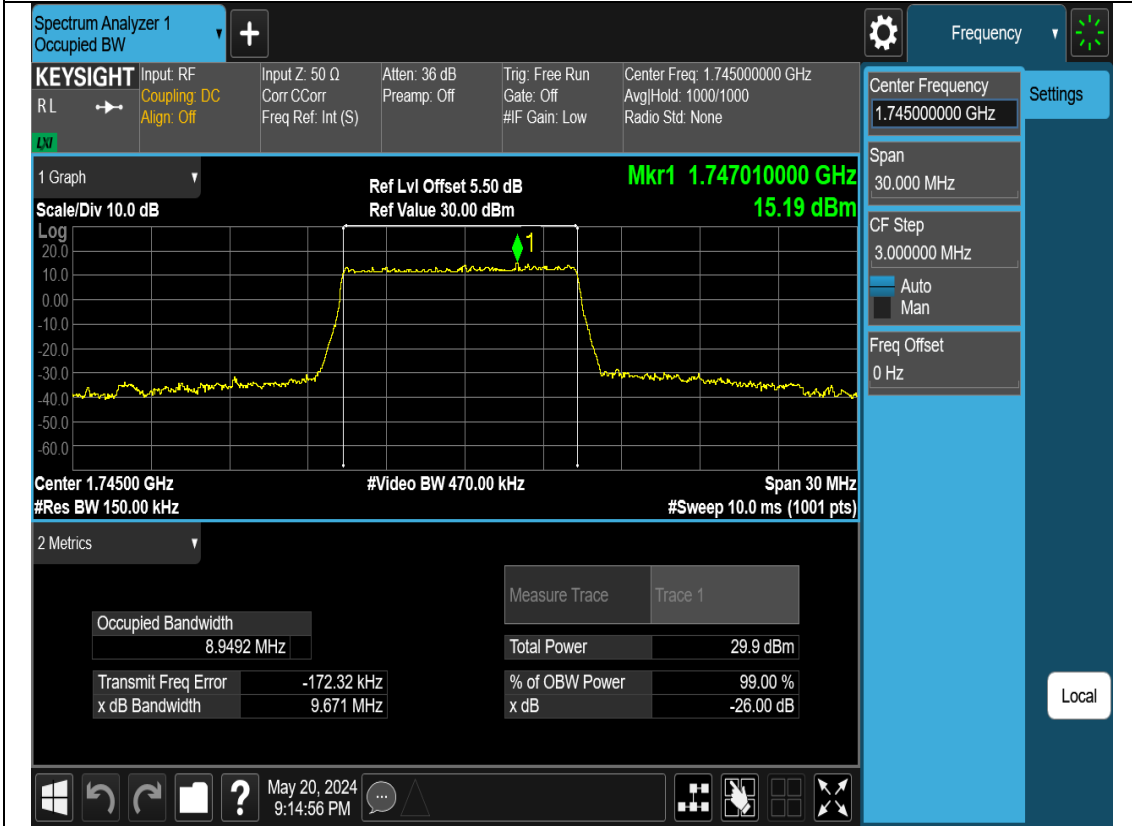
N66-10M-OBW-M-DFT-s-OFDM-QPSK



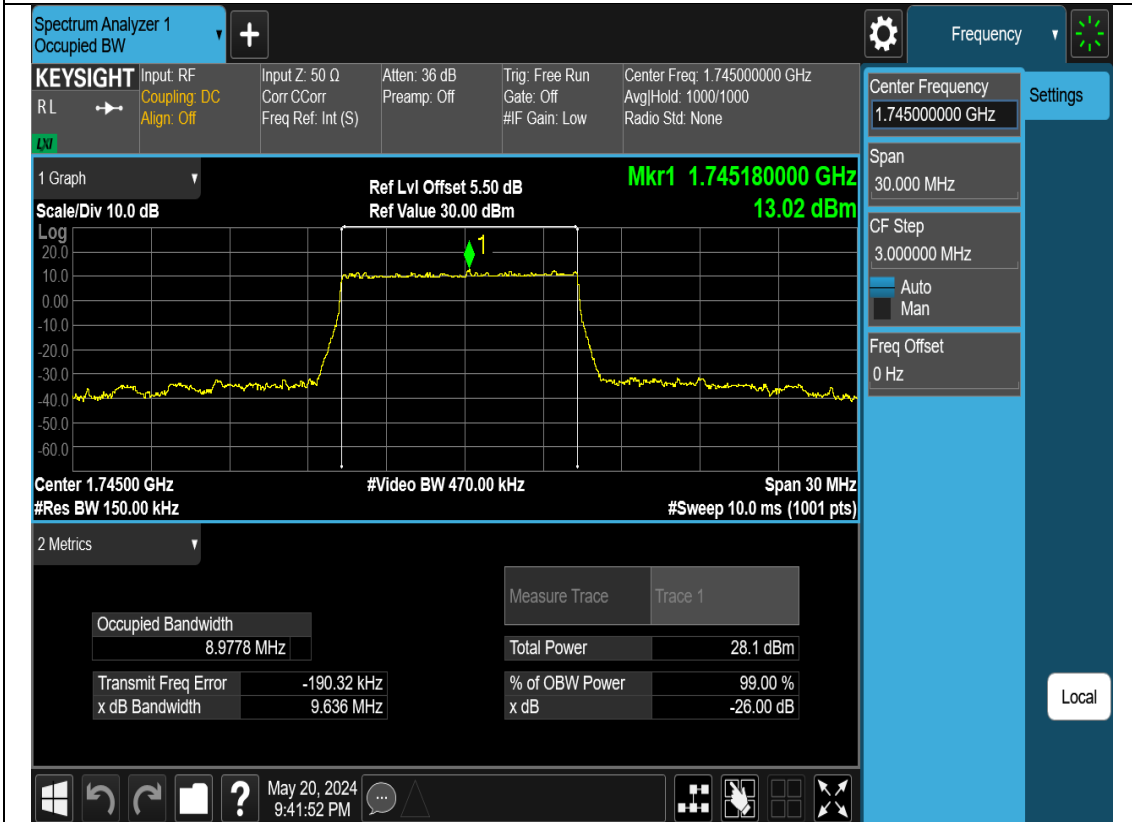
N66-10M-OBW-M-DFT-s-OFDM-16QAM



N66-10M-OBW-M-DFT-s-OFDM-64QAM



N66-10M-OBW-M-DFT-s-OFDM-256QAM



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

Spectrum Analyzer 1 Occupied BW

KEYSIGHT Input RF Input Z: 50 Ω Atten: 36 dB Trig: Free Run Center Freq: 1.74500000 GHz
 RL Coupling: DC Corr: C Corr Preamp: Off Gate: Off Avg/Hold: 1000/1000
 Align: Off Freq Ref: Int (S) #F Gain: Low Radio Std: None

1 Graph Scale/Div 10.0 dB Ref Lvl Offset 5.50 dB Mkr1 1.745900000 GHz
 Ref Value 30.00 dBm 14.64 dBm

Center 1.74500 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	8.9232 MHz	Total Power	29.6 dBm
Transmit Freq Error	-178.23 kHz	% of OBW Power	99.00 %
x dB Bandwidth	9.676 MHz	x dB	-26.00 dB

Settings: Center Frequency 1.745000000 GHz, Span 30.000 MHz, CF Step 3.000000 MHz, Freq Offset 0 Hz

Local

May 21, 2024 12:06:21 AM

N66-10M-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: 1.74500000 GHz
 RL Coupling: DC Corr: C Corr Preamp: Off Gate: Off Avg/Hold: 1000/1000
 Align: Off Freq Ref: Int (S) #F Gain: Low Radio Std: None

1 Graph Scale/Div 10.0 dB Ref Lvl Offset 5.50 dB Mkr1 1.745540000 GHz
 Ref Value 30.00 dBm 14.18 dBm

Center 1.74500 GHz #Res BW 150.00 kHz #Video BW 470.00 kHz Span 30 MHz
 #Sweep 10.0 ms (1001 pts)

2 Metrics

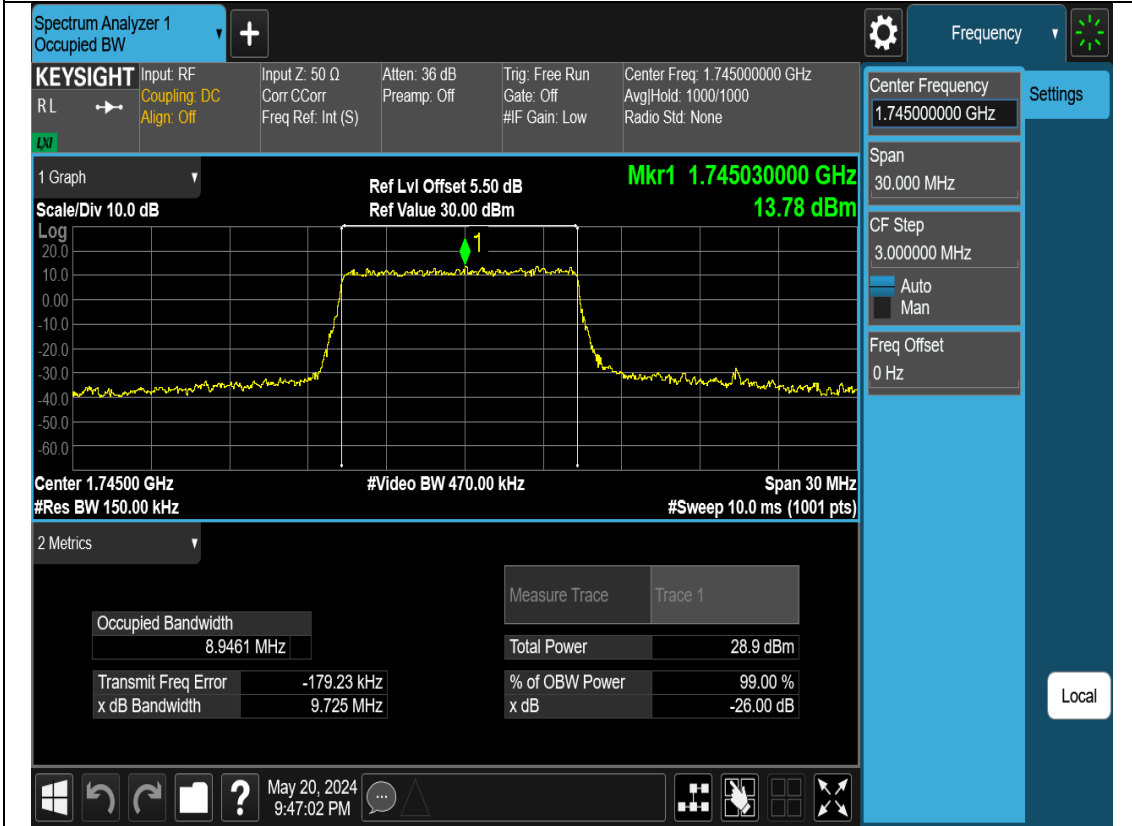
Measure Trace		Trace 1	
Occupied Bandwidth	8.9191 MHz	Total Power	29.7 dBm
Transmit Freq Error	-163.69 kHz	% of OBW Power	99.00 %
x dB Bandwidth	9.763 MHz	x dB	-26.00 dB

Settings: Center Frequency 1.745000000 GHz, Span 30.000 MHz, CF Step 3.000000 MHz, Freq Offset 0 Hz

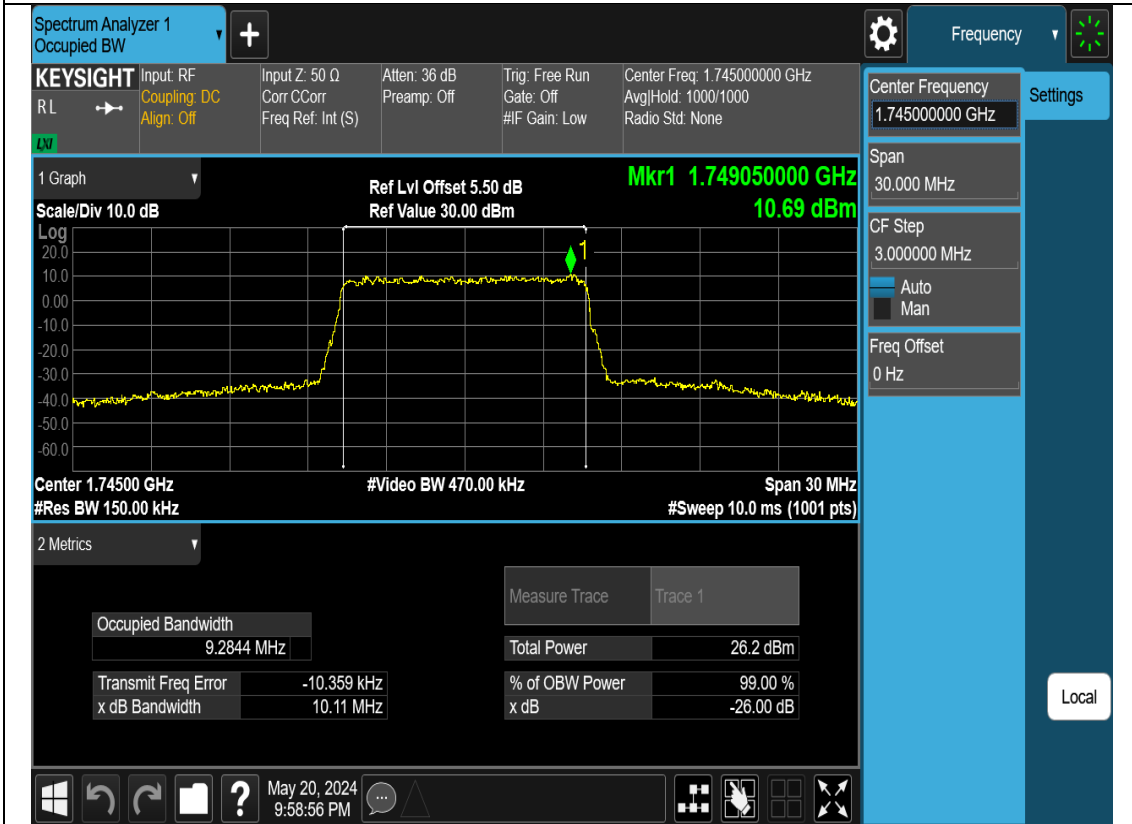
Local

May 20, 2024 10:03:00 PM

N66-10M-OBW-M-CP-OFDM-64QAM



N66-10M-OBW-M-CP-OFDM-256QAM



N66-10M-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: 1.77500000 GHz
 RL Coupling: DC Corr: CCorr Preamp: Off Gate: Off Avg/Hold: 1000/1000
 Align: Off Freq Ref: Int (S) #F Gain: Low Radio Std: None

1 Graph Scale/Div 10.0 dB Ref Lvl Offset 5.50 dB Mkr1 1.777070000 GHz
 Ref Value 30.00 dBm 18.38 dBm

Center 1.77500 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	8.9397 MHz	Total Power	32.5 dBm
Transmit Freq Error	-169.35 kHz	% of OBW Power	99.00 %
x dB Bandwidth	9.576 MHz	x dB	-26.00 dB

Windows taskbar: May 20, 2024 11:41:07 PM

N66-10M-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: 1.77500000 GHz
 RL Coupling: DC Corr: CCorr Preamp: Off Gate: Off Avg/Hold: 1000/1000
 Align: Off Freq Ref: Int (S) #F Gain: Low Radio Std: None

1 Graph Scale/Div 10.0 dB Ref Lvl Offset 5.50 dB Mkr1 1.778360000 GHz
 Ref Value 30.00 dBm 17.19 dBm

Center 1.77500 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	8.9361 MHz	Total Power	31.4 dBm
Transmit Freq Error	-187.38 kHz	% of OBW Power	99.00 %
x dB Bandwidth	9.680 MHz	x dB	-26.00 dB

Windows taskbar: May 20, 2024 9:10:44 PM

N66-10M-OBW-H-DFT-s-OFDM-16QAM

Spectrum Analyzer 1 Occupied BW

KEYSIGHT Input RF Input Z: 50 Ω Atten: 36 dB Trig: Free Run Center Freq: 1.775000000 GHz
 RL Coupling: DC Corr: C Corr Preamp: Off Gate: Off Avg/Hold: 1000/1000
 Align: Off Freq Ref: Int (S) #F Gain: Low Radio Std: None

1 Graph Scale/Div 10.0 dB Ref Lvl Offset 5.50 dB Mkr1 1.778450000 GHz
 Ref Value 30.00 dBm 15.23 dBm

Center 1.77500 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	8.9454 MHz	Total Power	30.4 dBm
Transmit Freq Error	-169.86 kHz	% of OBW Power	99.00 %
x dB Bandwidth	9.692 MHz	x dB	-26.00 dB

May 20, 2024 9:13:13 PM

N66-10M-OBW-H-DFT-s-OFDM-64QAM

Spectrum Analyzer 1 Occupied BW

KEYSIGHT Input RF Input Z: 50 Ω Atten: 36 dB Trig: Free Run Center Freq: 1.775000000 GHz
 RL Coupling: DC Corr: C Corr Preamp: Off Gate: Off Avg/Hold: 1000/1000
 Align: Off Freq Ref: Int (S) #F Gain: Low Radio Std: None

1 Graph Scale/Div 10.0 dB Ref Lvl Offset 5.50 dB Mkr1 1.775510000 GHz
 Ref Value 30.00 dBm 14.81 dBm

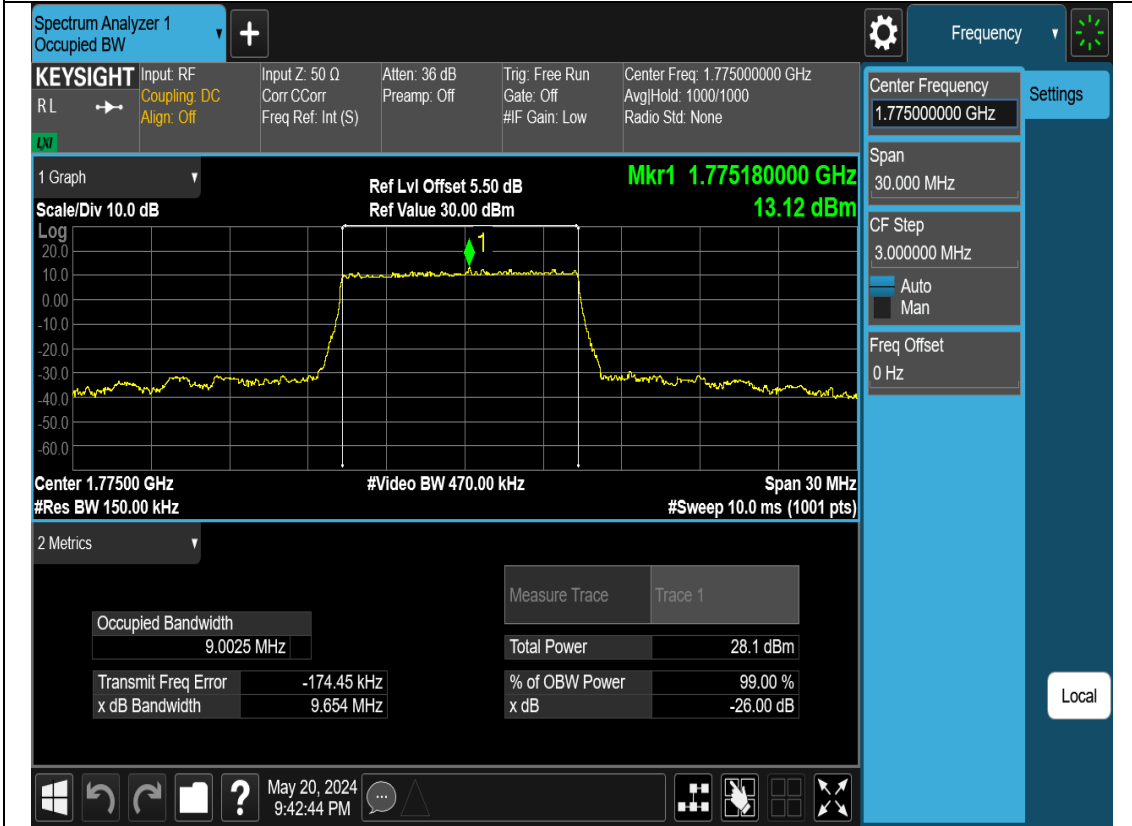
Center 1.77500 GHz #Res BW 150.00 kHz #Video BW 470.00 kHz Span 30 MHz #Sweep 10.0 ms (1001 pts)

2 Metrics

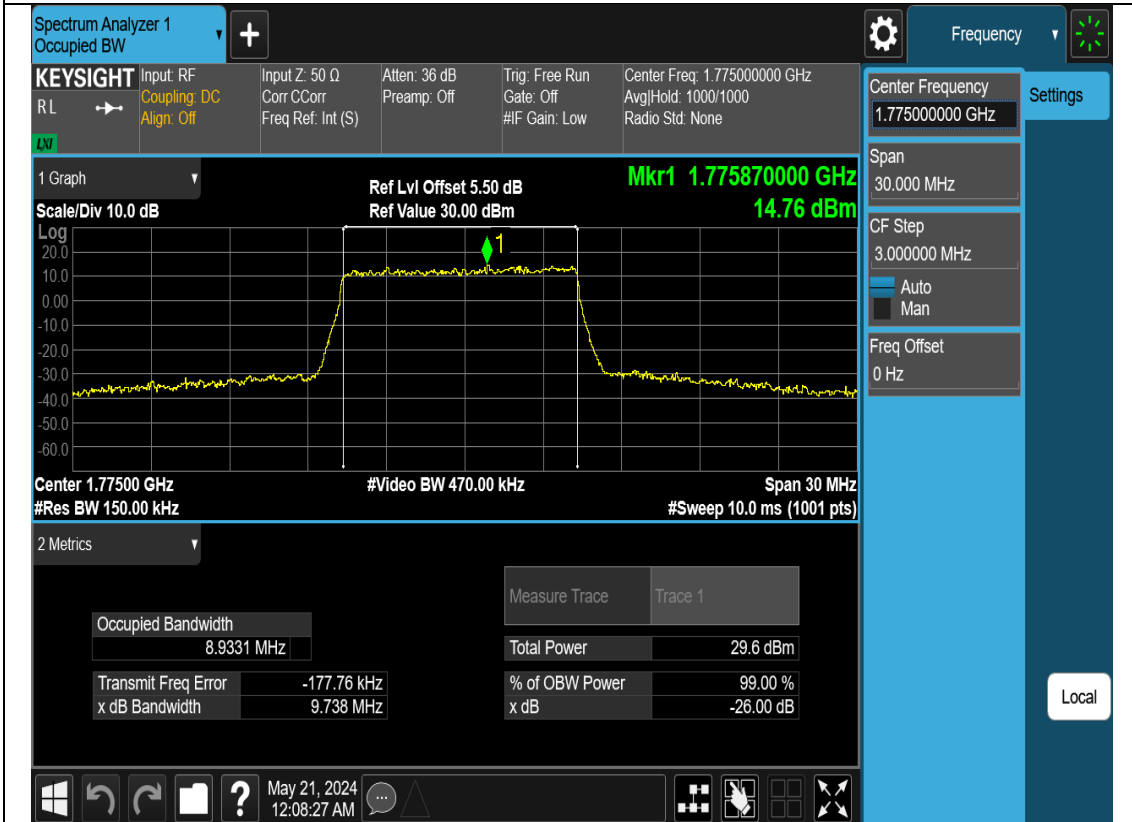
Measure Trace		Trace 1	
Occupied Bandwidth	8.9477 MHz	Total Power	30.0 dBm
Transmit Freq Error	-166.48 kHz	% of OBW Power	99.00 %
x dB Bandwidth	9.669 MHz	x dB	-26.00 dB

May 20, 2024 9:20:23 PM

N66-10M-OBW-H-DFT-s-OFDM-256QAM



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



N66-10M-OBW-H-CP-OFDM-16QAM

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input RF
RL Coupling: DC
Align: Off

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

Atten: 36 dB
Preamp: Off

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

Center Freq: 1.77500000 GHz
Avg/Hold: 1000/1000
Radio Std: None

Center Frequency: 1.77500000 GHz

Span: 30.000 MHz

CF Step: 3.000000 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 1.778210000 GHz
14.38 dBm

Center 1.77500 GHz
#Res BW 150.00 kHz
#Video BW 470.00 kHz
Span 30 MHz
#Sweep 10.0 ms (1001 pts)

2 Metrics

Occupied Bandwidth	8.9222 MHz	Total Power	29.6 dBm
Transmit Freq Error	-173.50 kHz	% of OBW Power	99.00 %
x dB Bandwidth	9.896 MHz	x dB	-26.00 dB

May 20, 2024 10:03:29 PM

N66-10M-OBW-H-CP-OFDM-64QAM

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input RF
RL Coupling: DC
Align: Off

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

Atten: 36 dB
Preamp: Off

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

Center Freq: 1.77500000 GHz
Avg/Hold: 1000/1000
Radio Std: None

Center Frequency: 1.77500000 GHz

Span: 30.000 MHz

CF Step: 3.000000 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 1.777790000 GHz
14.05 dBm

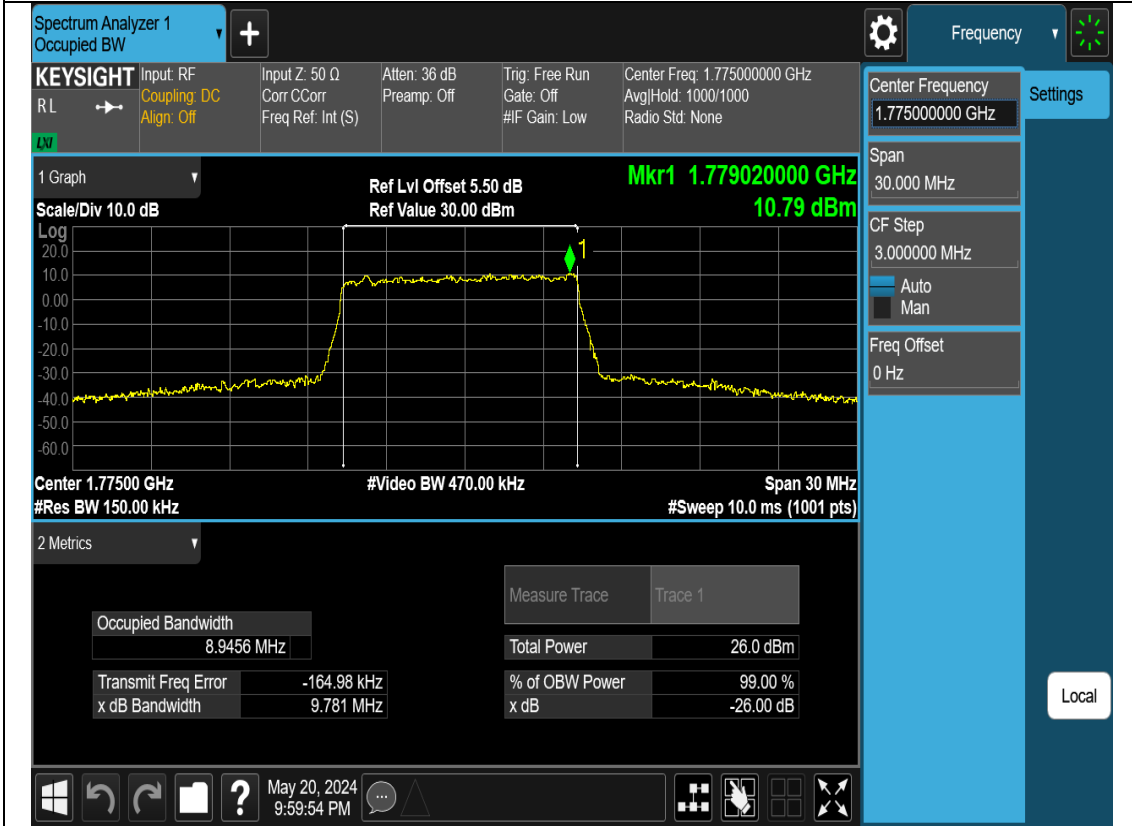
Center 1.77500 GHz
#Res BW 150.00 kHz
#Video BW 470.00 kHz
Span 30 MHz
#Sweep 10.0 ms (1001 pts)

2 Metrics

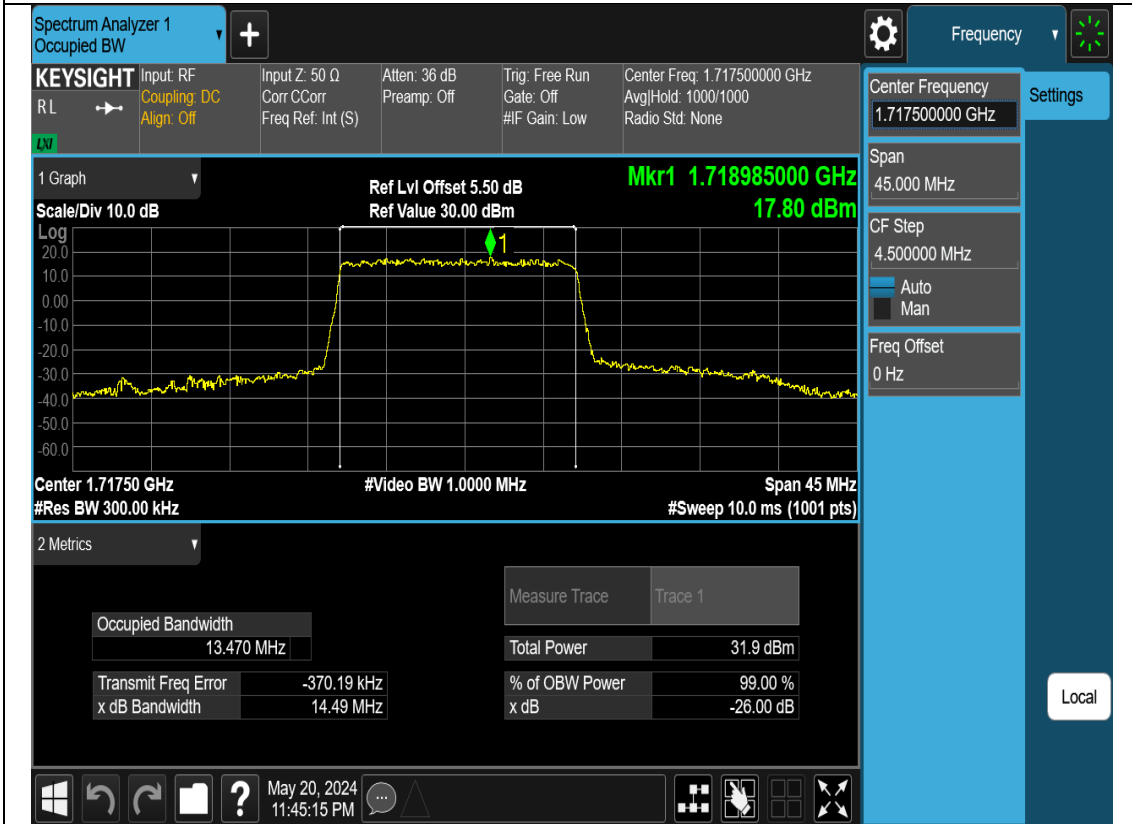
Occupied Bandwidth	8.9461 MHz	Total Power	29.1 dBm
Transmit Freq Error	-169.78 kHz	% of OBW Power	99.00 %
x dB Bandwidth	9.724 MHz	x dB	-26.00 dB

May 20, 2024 10:04:56 PM

N66-10M-OBW-H-CP-OFDM-256QAM



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



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

Spectrum Analyzer 1 Occupied BW

KEYSIGHT Input RF Input Z: 50 Ω Atten: 36 dB Trig: Free Run Center Freq: 1.71750000 GHz
 RL Coupling: DC Corr CCorr Preamp: Off Gate: Off Avg/Hold: 1000/1000
 Align: Off Freq Ref: Int (S) #F Gain: Low Radio Std: None

1 Graph Scale/Div 10.0 dB Ref Lvl Offset 5.50 dB Mkr1 1.716330000 GHz
 Ref Value 30.00 dBm 17.62 dBm

Center 1.71750 GHz #Res BW 300.00 kHz #Video BW 1.0000 MHz Span 45 MHz
 #Sweep 10.0 ms (1001 pts)

2 Metrics

Measure Trace		Trace 1	
Occupied Bandwidth	13.462 MHz	Total Power	31.9 dBm
Transmit Freq Error	-398.99 kHz	% of OBW Power	99.00 %
x dB Bandwidth	14.52 MHz	x dB	-26.00 dB

May 20, 2024 10:06:21 PM

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

Spectrum Analyzer 1 Occupied BW

KEYSIGHT Input RF Input Z: 50 Ω Atten: 36 dB Trig: Free Run Center Freq: 1.71750000 GHz
 RL Coupling: DC Corr CCorr Preamp: Off Gate: Off Avg/Hold: 1000/1000
 Align: Off Freq Ref: Int (S) #F Gain: Low Radio Std: None

1 Graph Scale/Div 10.0 dB Ref Lvl Offset 5.50 dB Mkr1 1.716465000 GHz
 Ref Value 30.00 dBm 17.50 dBm

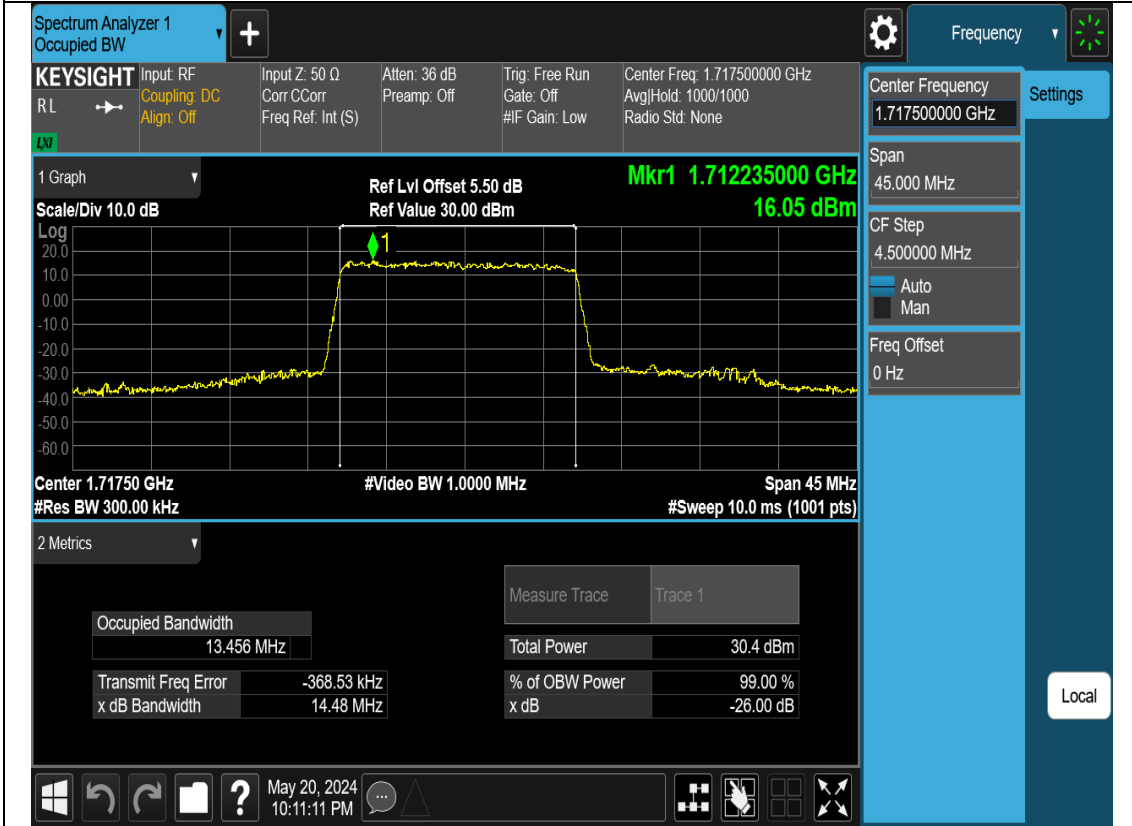
Center 1.71750 GHz #Res BW 300.00 kHz #Video BW 1.0000 MHz Span 45 MHz
 #Sweep 10.0 ms (1001 pts)

2 Metrics

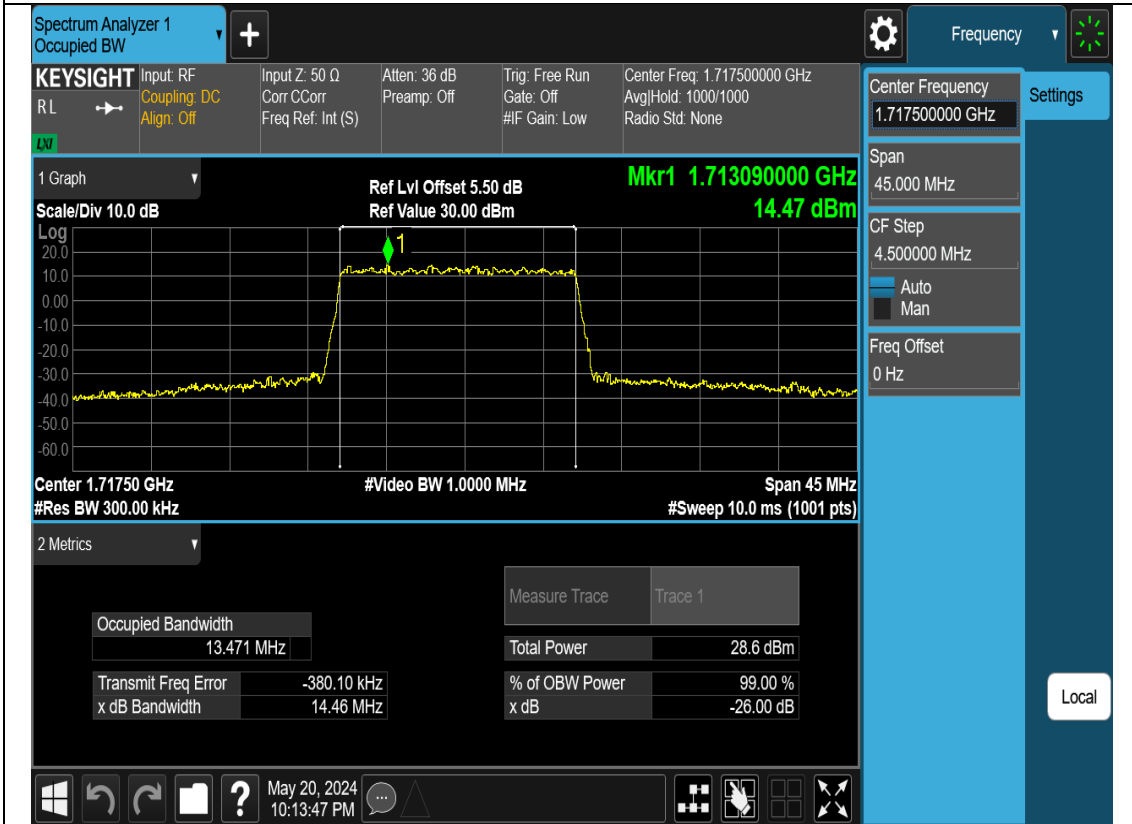
Measure Trace		Trace 1	
Occupied Bandwidth	13.450 MHz	Total Power	30.8 dBm
Transmit Freq Error	-377.02 kHz	% of OBW Power	99.00 %
x dB Bandwidth	14.53 MHz	x dB	-26.00 dB

May 20, 2024 10:08:36 PM

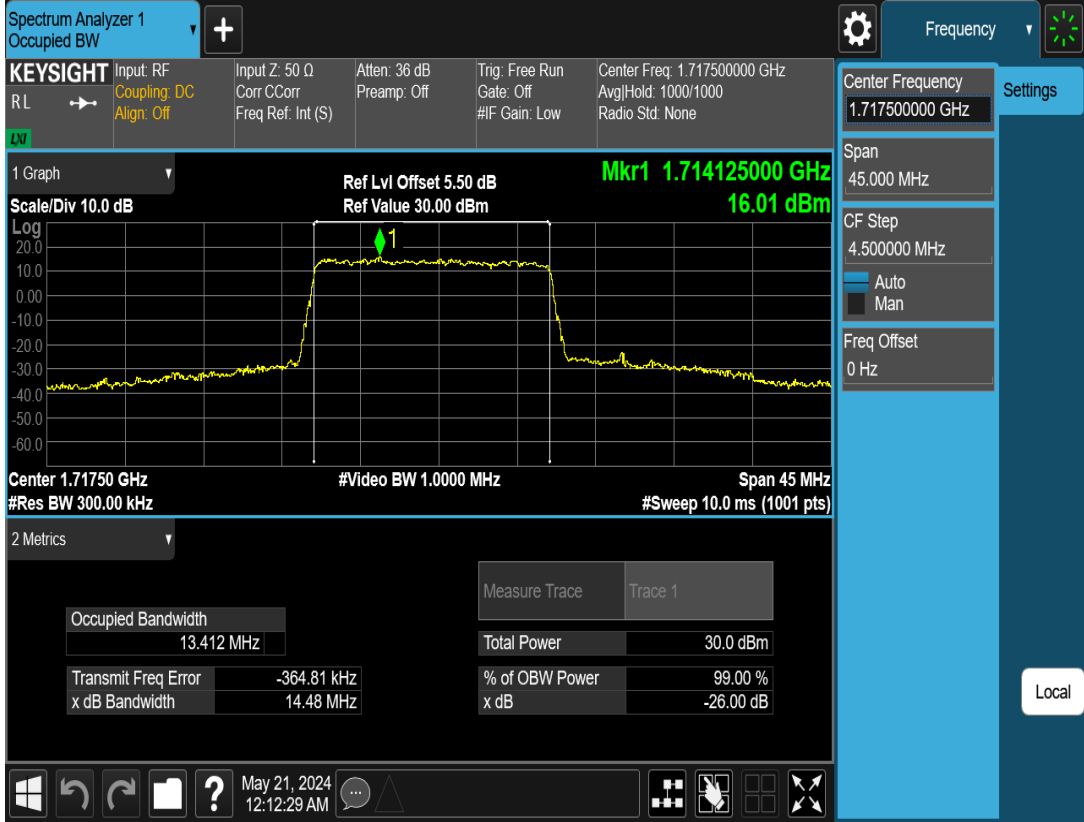
N66-15M-OBW-L-DFT-s-OFDM-64QAM



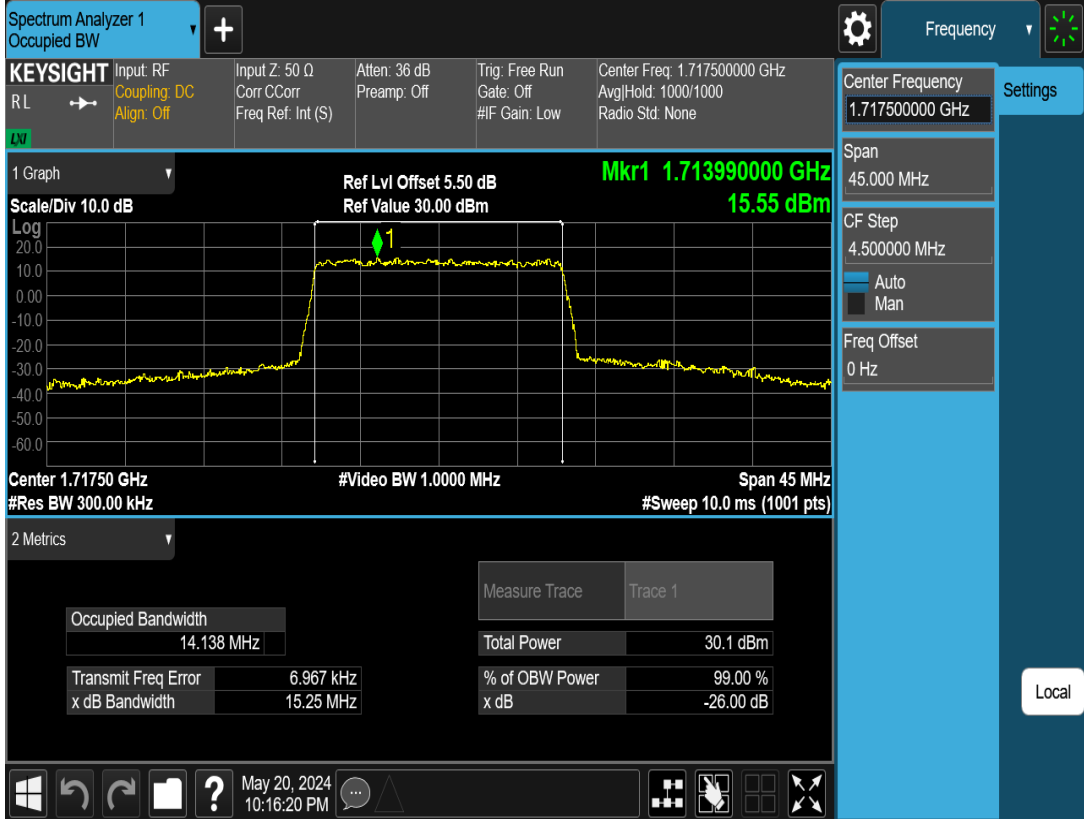
N66-15M-OBW-L-DFT-s-OFDM-256QAM



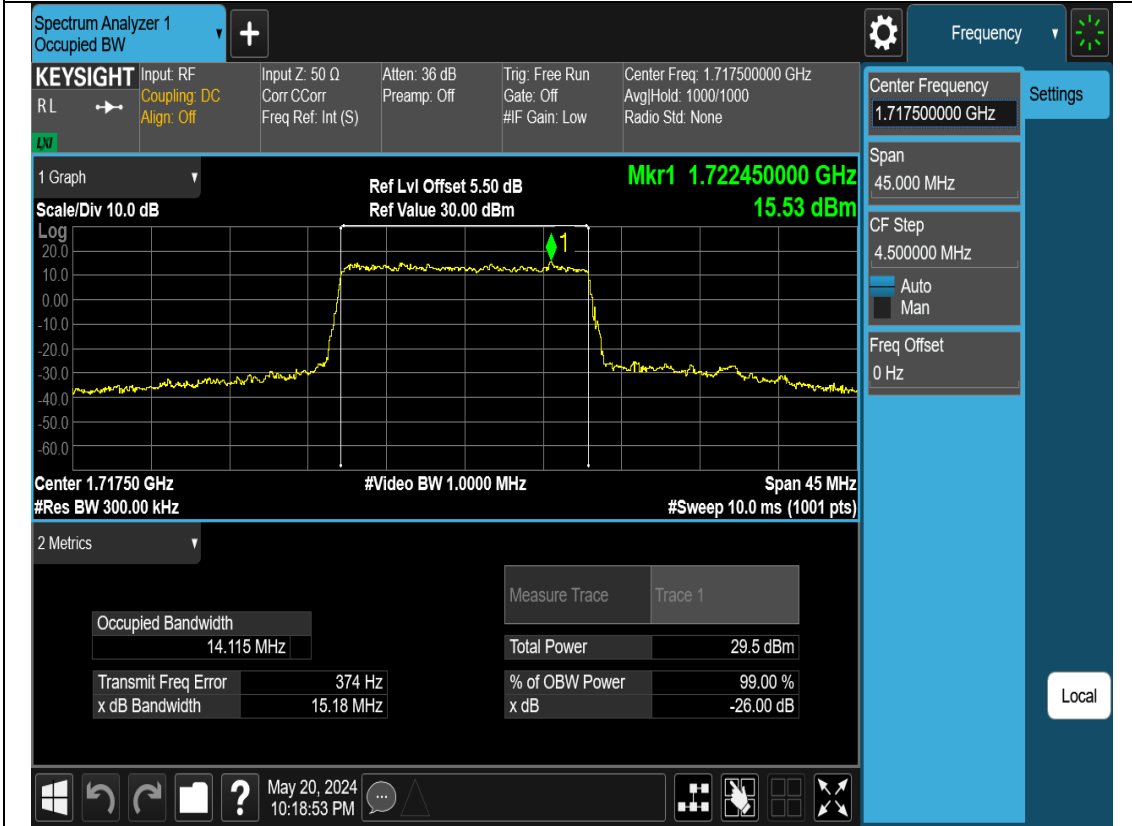
N66-15M-OBW-L-CP-OFDM-QPSK



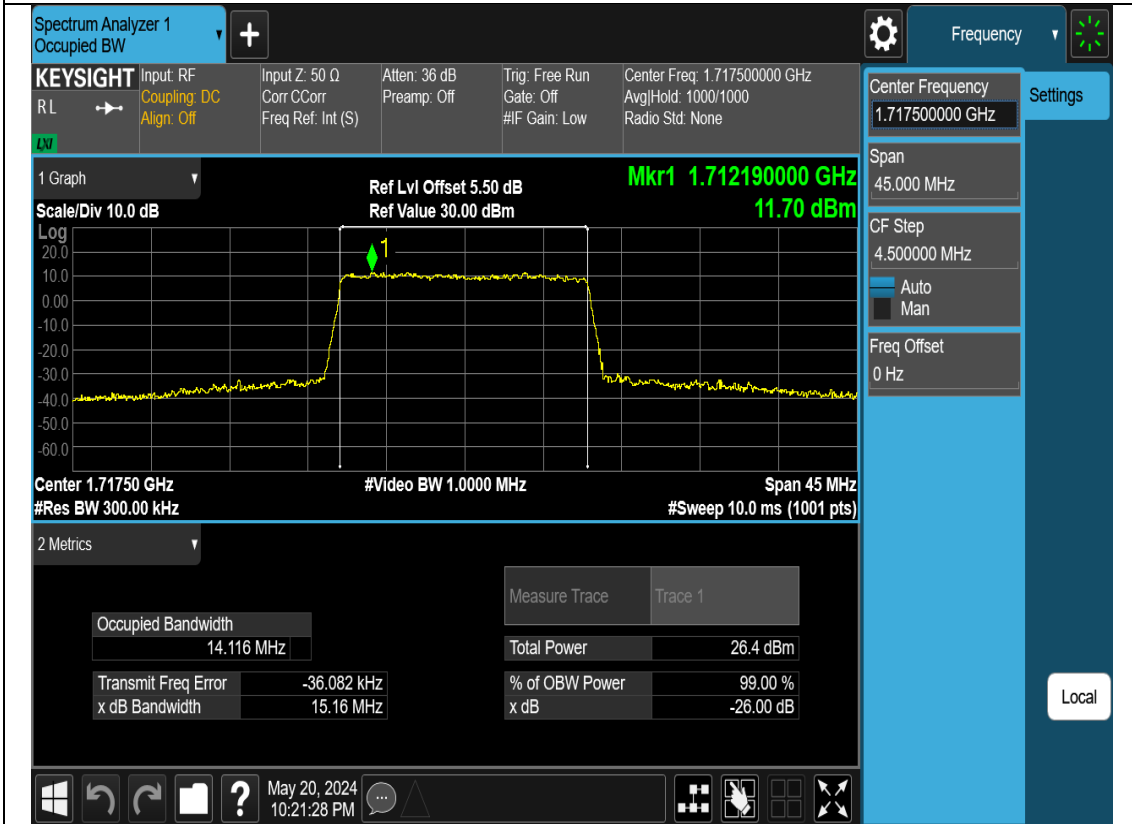
N66-15M-OBW-L-CP-OFDM-16QAM



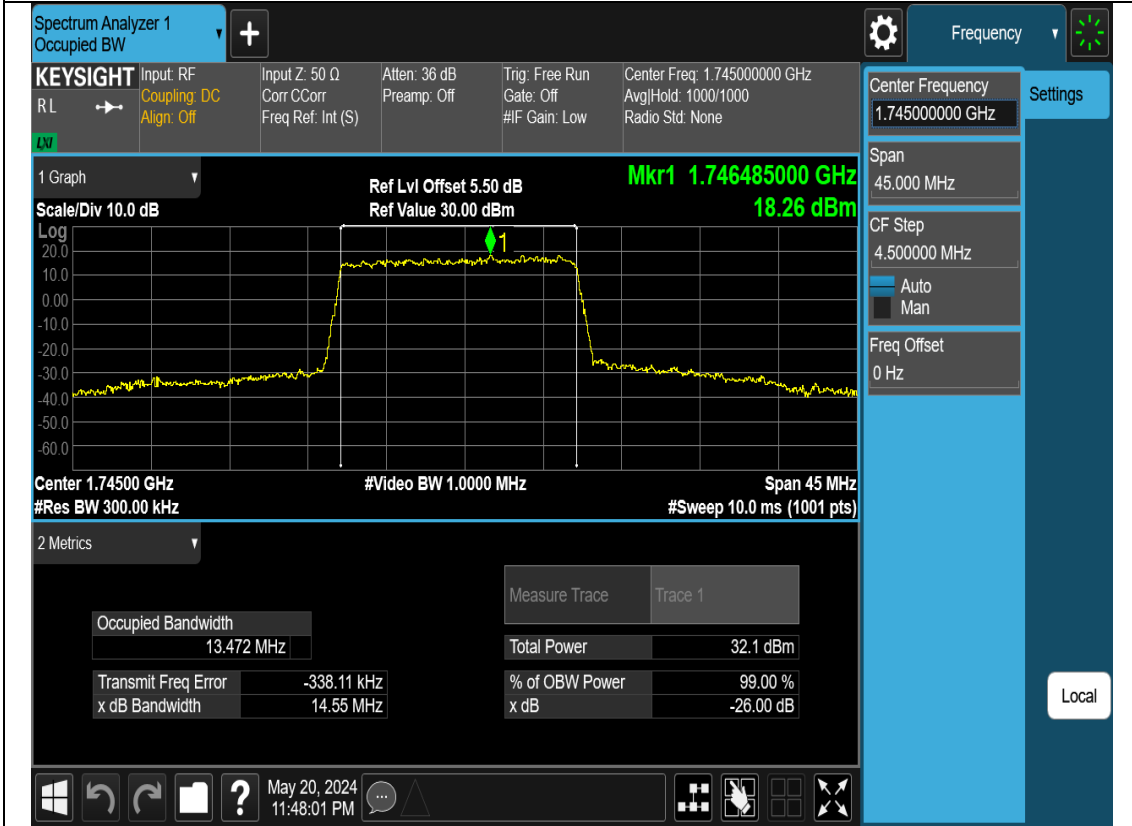
N66-15M-OBW-L-CP-OFDM-64QAM



N66-15M-OBW-L-CP-OFDM-256QAM



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



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

