

99% & 26dB Bandwidth

Test Result

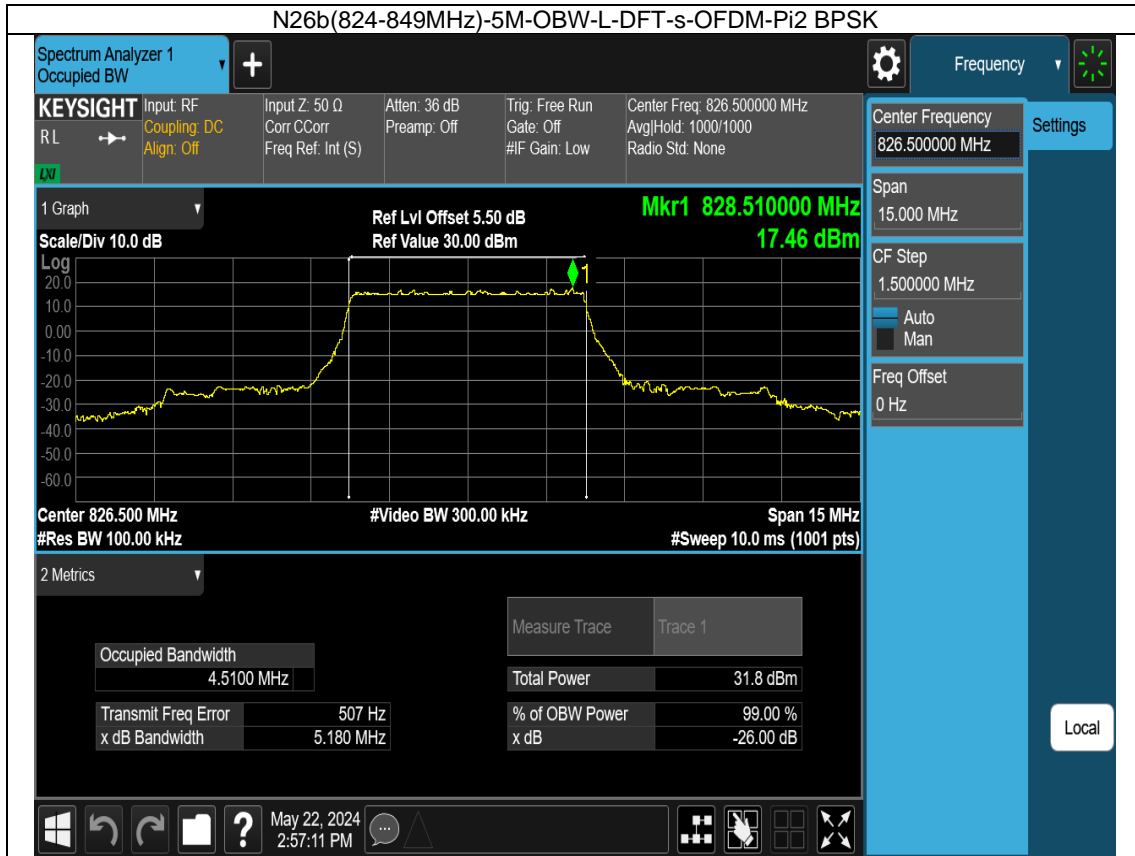
5G NR n26b(824-849MHz) SCS=15kHz 5MHz						
Modulation	CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	Low CH	Outer_Full	4.510	5.180	/	Pass
DFT-s-OFDM QPSK		Outer_Full	4.480	5.115	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	4.507	5.241	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	4.490	5.187	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	4.501	5.159	/	Pass
CP-OFDM QPSK		Outer_Full	4.513	5.288	/	Pass
CP-OFDM 16QAM		Outer_Full	4.511	5.245	/	Pass
CP-OFDM 64QAM		Outer_Full	4.492	5.075	/	Pass
CP-OFDM 256QAM		Outer_Full	4.514	5.084	/	Pass
DFT-s-OFDM PI/2 BPSK		Middle CH	Outer_Full	4.497	5.199	/
DFT-s-OFDM QPSK	Outer_Full		4.489	5.065	/	Pass
DFT-s-OFDM 16QAM	Outer_Full		4.509	5.255	/	Pass
DFT-s-OFDM 64QAM	Outer_Full		4.522	5.269	/	Pass
DFT-s-OFDM 256QAM	Outer_Full		4.508	5.214	/	Pass
CP-OFDM QPSK	Outer_Full		4.499	5.273	/	Pass
CP-OFDM 16QAM	Outer_Full		4.521	5.246	/	Pass
CP-OFDM 64QAM	Outer_Full		4.505	5.190	/	Pass
CP-OFDM 256QAM	Outer_Full		4.510	5.113	/	Pass
DFT-s-OFDM PI/2 BPSK	High CH		Outer_Full	4.481	5.151	/
DFT-s-OFDM QPSK		Outer_Full	4.497	5.168	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	4.495	5.170	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	4.497	5.025	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	4.501	5.165	/	Pass
CP-OFDM QPSK		Outer_Full	4.541	5.195	/	Pass
CP-OFDM 16QAM		Outer_Full	4.480	5.170	/	Pass
CP-OFDM 64QAM		Outer_Full	4.501	5.191	/	Pass
CP-OFDM 256QAM		Outer_Full	4.510	5.122	/	Pass

5G NR n26b(824-849MHz) 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	8.934	9.653	/	Pass
DFT-s-OFDM QPSK		Outer_Full	8.952	9.788	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	8.961	9.840	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	8.978	9.765	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	8.933	9.736	/	Pass
CP-OFDM QPSK		Outer_Full	9.312	10.19	/	Pass
CP-OFDM 16QAM		Outer_Full	9.299	10.08	/	Pass
CP-OFDM 64QAM		Outer_Full	9.317	10.19	/	Pass
CP-OFDM 256QAM		Outer_Full	9.326	10.12	/	Pass
DFT-s-OFDM PI/2 BPSK	Middle CH	Outer_Full	8.928	9.658	/	Pass
DFT-s-OFDM QPSK		Outer_Full	8.938	9.608	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	8.966	9.755	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	8.946	9.712	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	8.960	9.717	/	Pass
CP-OFDM QPSK		Outer_Full	9.315	10.20	/	Pass
CP-OFDM 16QAM		Outer_Full	8.942	9.812	/	Pass
CP-OFDM 64QAM		Outer_Full	8.974	9.844	/	Pass
CP-OFDM 256QAM		Outer_Full	8.952	9.669	/	Pass
DFT-s-OFDM PI/2 BPSK	High CH	Outer_Full	8.943	9.662	/	Pass
DFT-s-OFDM QPSK		Outer_Full	8.941	9.729	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	8.978	9.772	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	8.967	9.869	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	8.974	9.768	/	Pass
CP-OFDM QPSK		Outer_Full	9.289	10.04	/	Pass
CP-OFDM 16QAM		Outer_Full	8.936	9.762	/	Pass
CP-OFDM 64QAM		Outer_Full	8.925	9.652	/	Pass
CP-OFDM 256QAM		Outer_Full	8.947	9.678	/	Pass

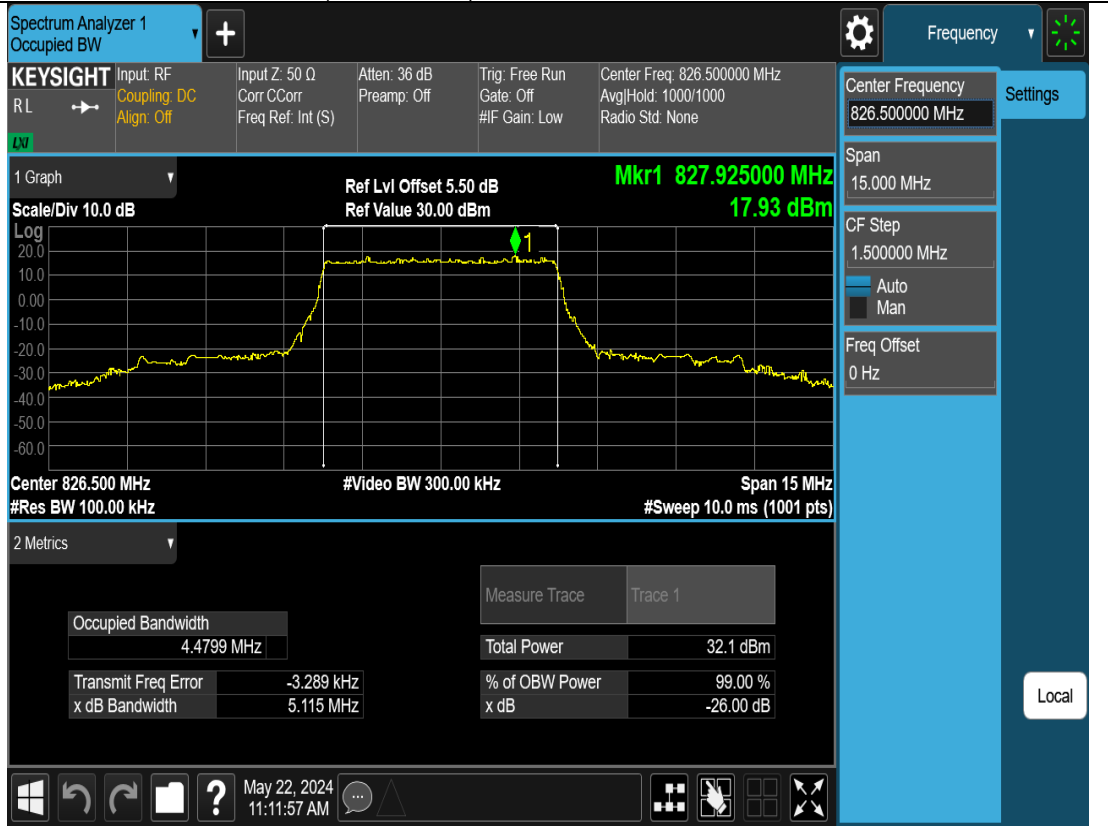
5G NR n26b(824-849MHz) SCS=15kHz 15MHz						
Modulation	CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	Low CH	Outer_Full	13.478	14.41	/	Pass
DFT-s-OFDM QPSK		Outer_Full	13.494	14.52	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	13.442	14.43	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	13.448	14.58	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	13.437	14.42	/	Pass
CP-OFDM QPSK		Outer_Full	14.146	15.22	/	Pass
CP-OFDM 16QAM		Outer_Full	14.142	15.14	/	Pass
CP-OFDM 64QAM		Outer_Full	14.125	15.17	/	Pass
CP-OFDM 256QAM		Outer_Full	14.23	15.28	/	Pass
DFT-s-OFDM PI/2 BPSK	Middle CH	Outer_Full	13.495	14.58	/	Pass
DFT-s-OFDM QPSK		Outer_Full	13.464	14.55	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	13.448	14.52	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	13.457	14.57	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	13.461	14.55	/	Pass
CP-OFDM QPSK		Outer_Full	14.111	15.18	/	Pass
CP-OFDM 16QAM		Outer_Full	13.458	14.57	/	Pass
CP-OFDM 64QAM		Outer_Full	13.451	14.58	/	Pass
CP-OFDM 256QAM		Outer_Full	13.407	14.38	/	Pass
DFT-s-OFDM PI/2 BPSK	High CH	Outer_Full	13.449	14.42	/	Pass
DFT-s-OFDM QPSK		Outer_Full	13.432	14.50	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	13.431	14.48	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	13.477	14.56	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	13.462	14.62	/	Pass
CP-OFDM QPSK		Outer_Full	14.106	15.12	/	Pass
CP-OFDM 16QAM		Outer_Full	13.442	14.50	/	Pass
CP-OFDM 64QAM		Outer_Full	13.480	14.54	/	Pass
CP-OFDM 256QAM		Outer_Full	13.400	14.40	/	Pass

5G NR n26b(824-849MHz) 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	17.908	19.06	/	Pass
DFT-s-OFDM QPSK		Outer_Full	17.843	18.96	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	17.898	19.09	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	17.876	18.96	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	17.878	18.95	/	Pass
CP-OFDM QPSK		Outer_Full	18.900	20.12	/	Pass
CP-OFDM 16QAM		Outer_Full	18.919	19.99	/	Pass
CP-OFDM 64QAM		Outer_Full	18.906	20.12	/	Pass
CP-OFDM 256QAM		Outer_Full	17.860	18.98	/	Pass
DFT-s-OFDM PI/2 BPSK	Middle CH	Outer_Full	17.869	18.92	/	Pass
DFT-s-OFDM QPSK		Outer_Full	17.845	18.97	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	17.862	19.00	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	17.833	19.09	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	17.880	18.94	/	Pass
CP-OFDM QPSK		Outer_Full	18.909	20.06	/	Pass
CP-OFDM 16QAM		Outer_Full	17.873	18.93	/	Pass
CP-OFDM 64QAM		Outer_Full	18.888	19.95	/	Pass
CP-OFDM 256QAM		Outer_Full	18.924	20.04	/	Pass
DFT-s-OFDM PI/2 BPSK	High CH	Outer_Full	17.879	19.03	/	Pass
DFT-s-OFDM QPSK		Outer_Full	17.876	19.11	/	Pass
DFT-s-OFDM 16QAM		Outer_Full	17.935	18.99	/	Pass
DFT-s-OFDM 64QAM		Outer_Full	17.853	18.99	/	Pass
DFT-s-OFDM 256QAM		Outer_Full	17.901	19.04	/	Pass
CP-OFDM QPSK		Outer_Full	18.920	20.02	/	Pass
CP-OFDM 16QAM		Outer_Full	17.888	18.88	/	Pass
CP-OFDM 64QAM		Outer_Full	17.856	19.05	/	Pass
CP-OFDM 256QAM		Outer_Full	17.915	19.02	/	Pass

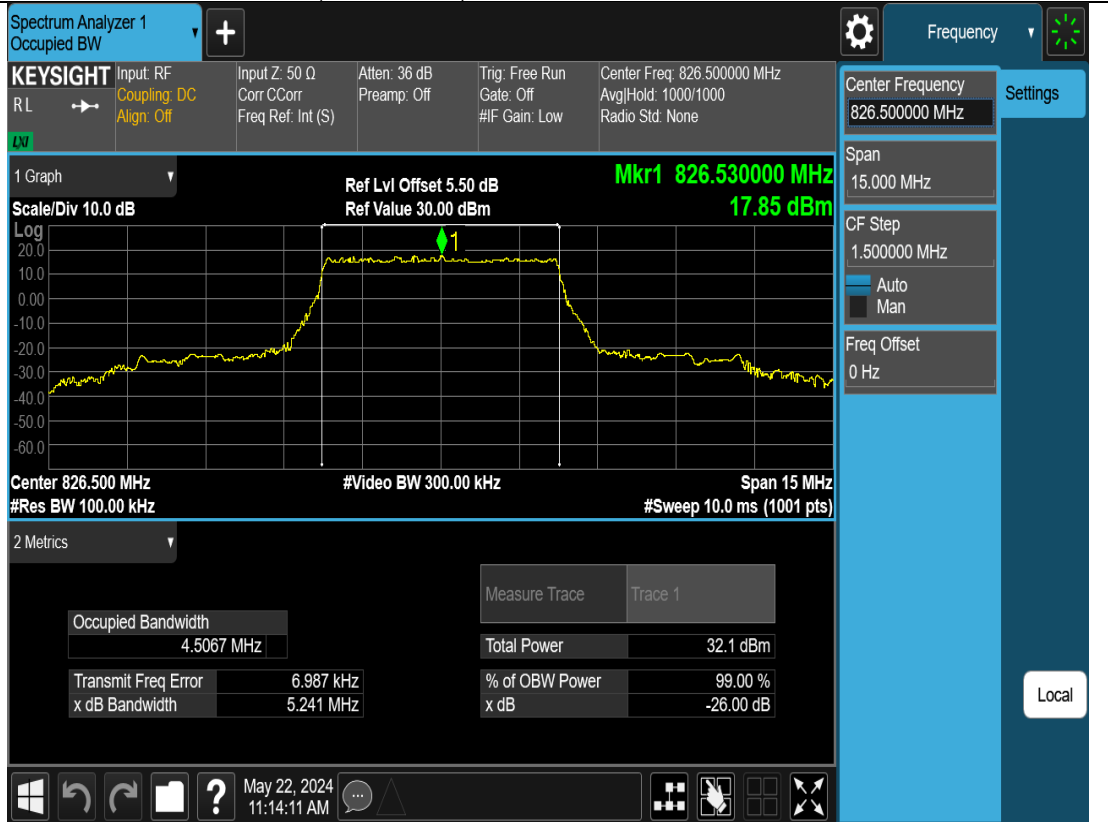
Test graph



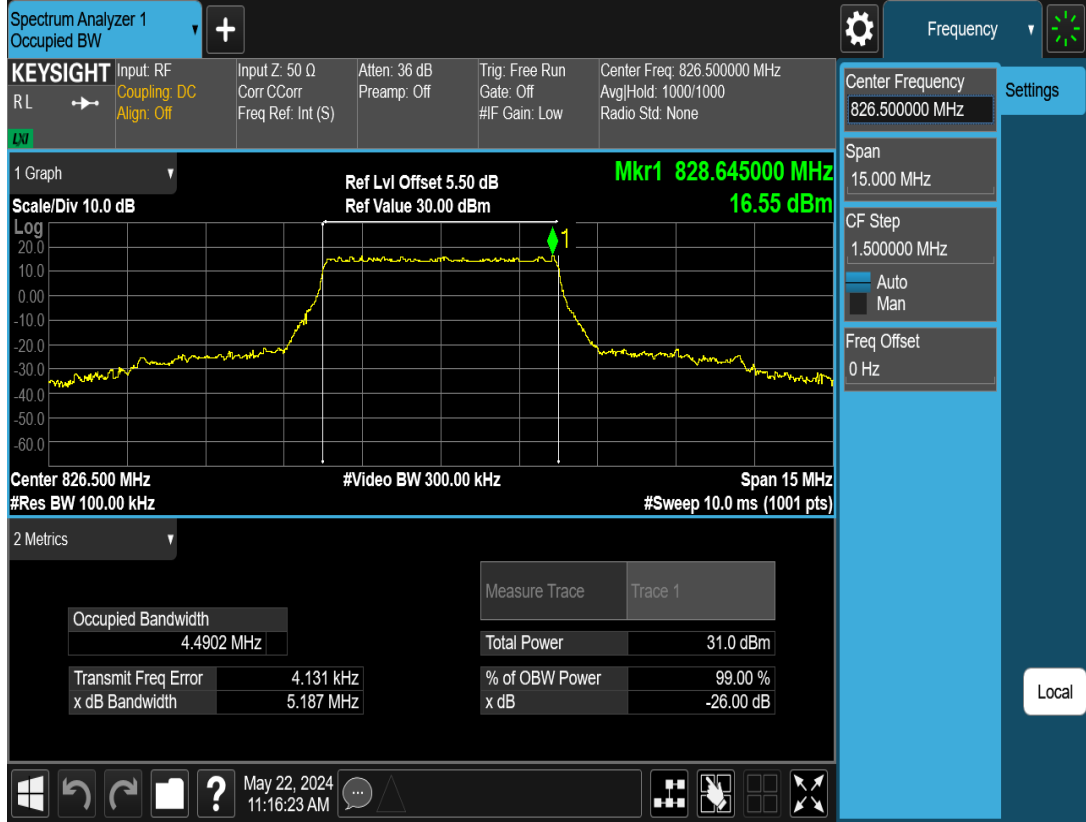
N26b(824-849MHz)-5M-OBW-L-DFT-s-OFDM-QPSK



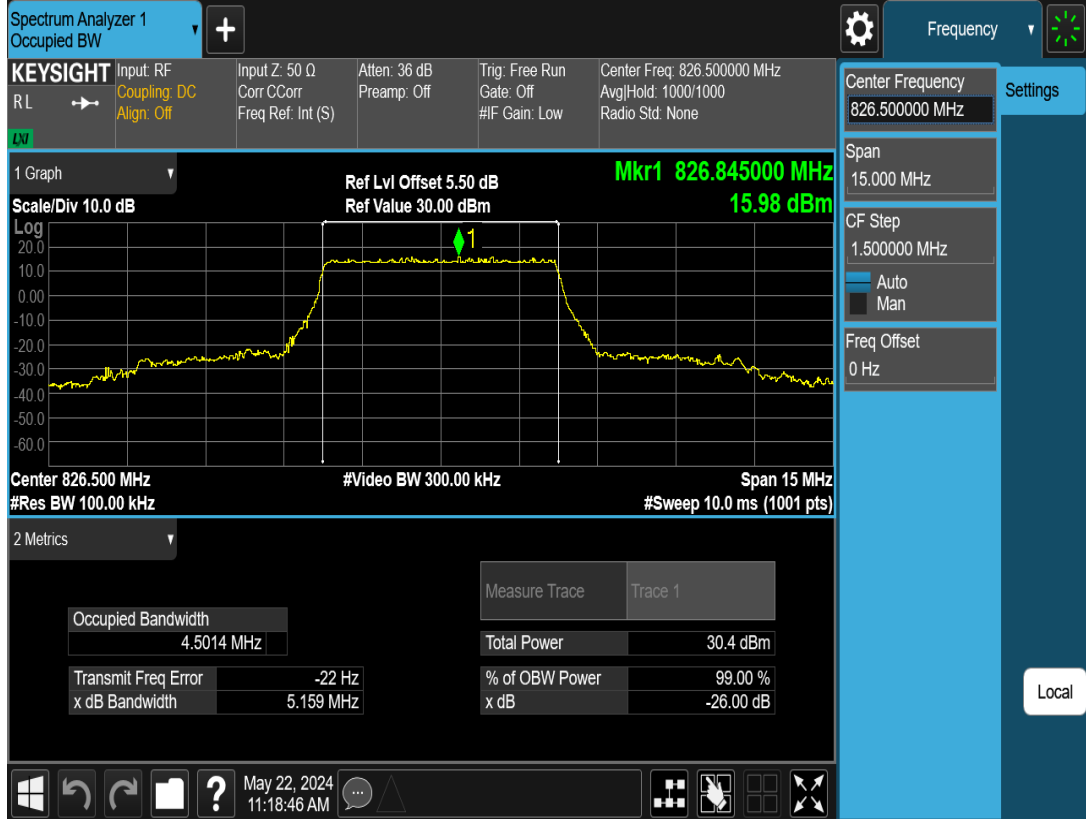
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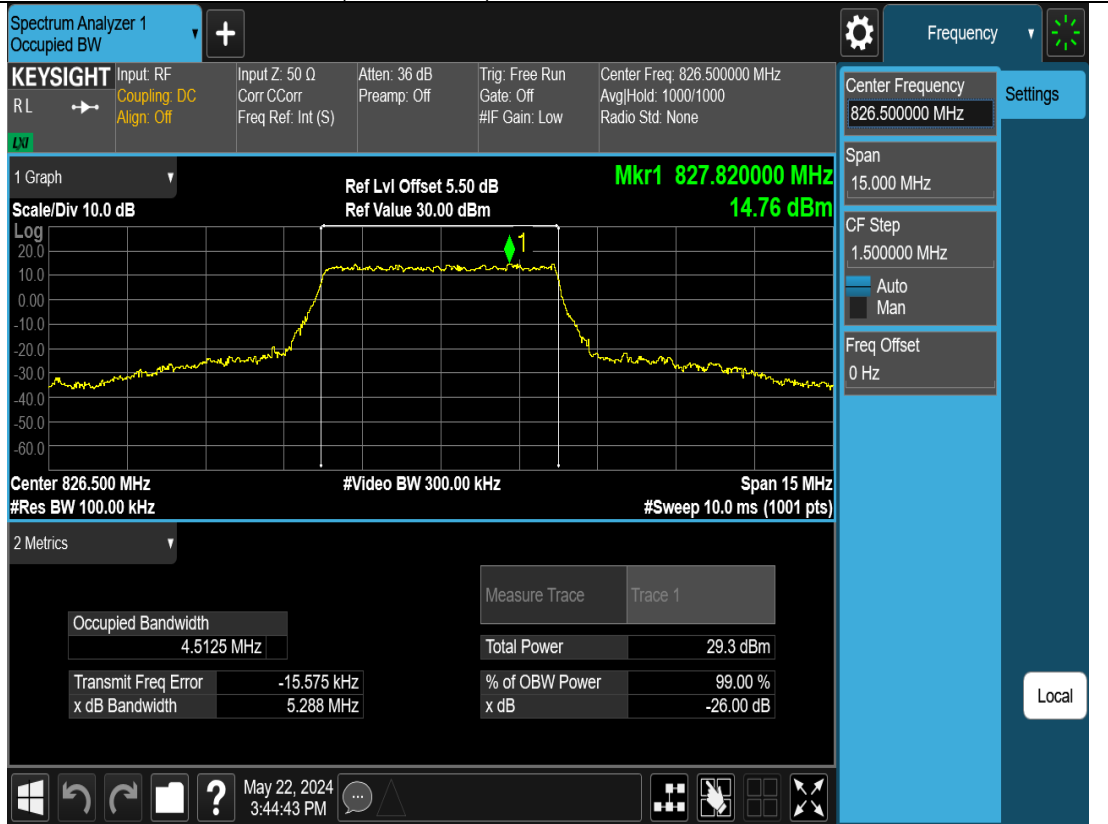
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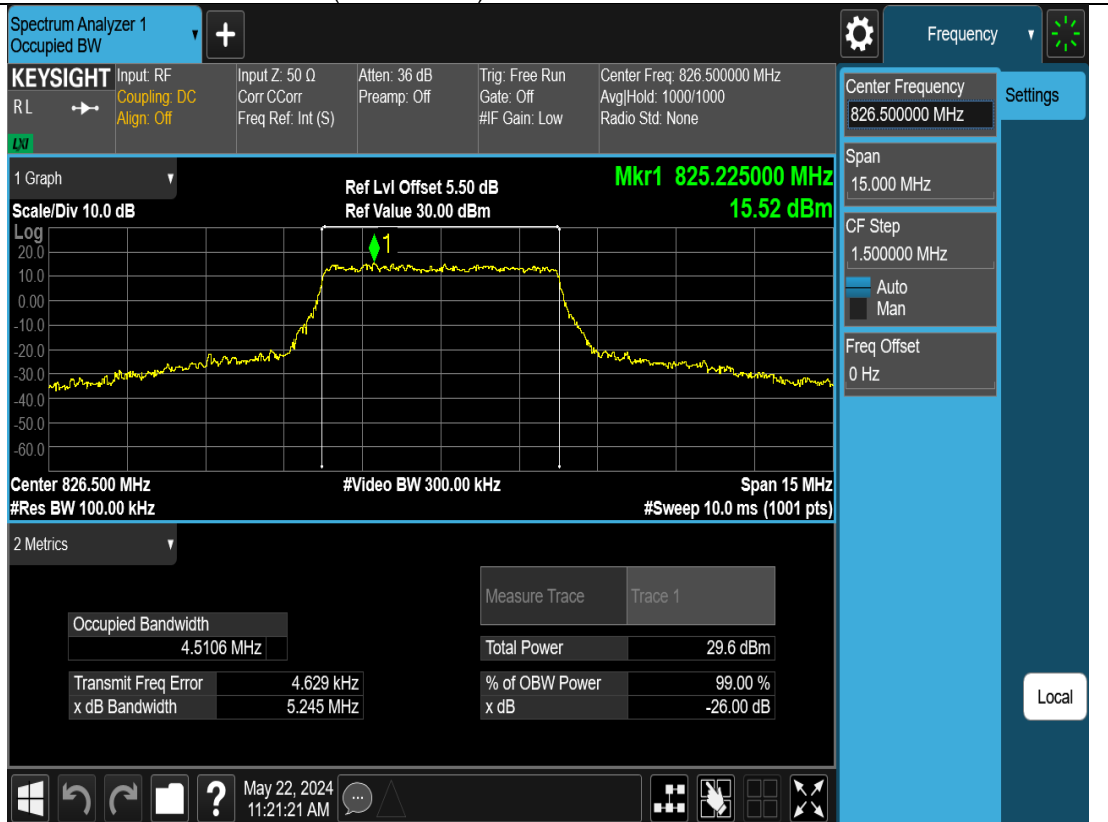
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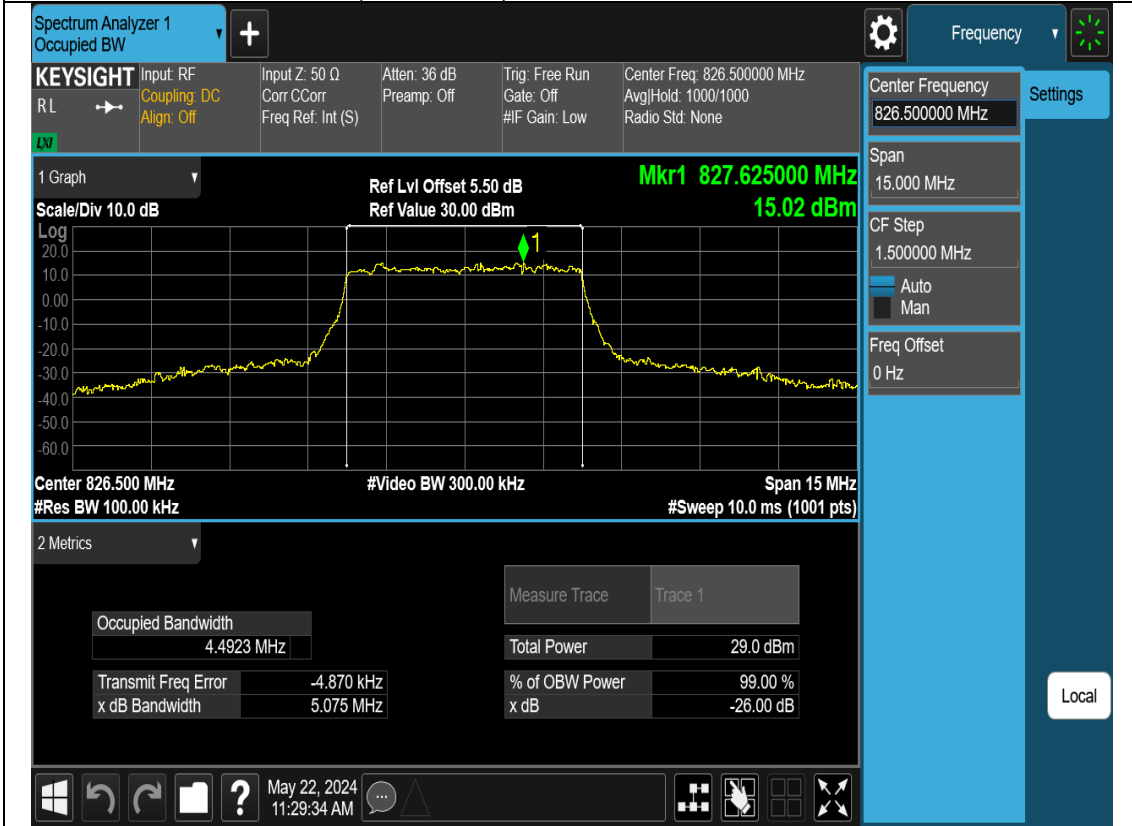
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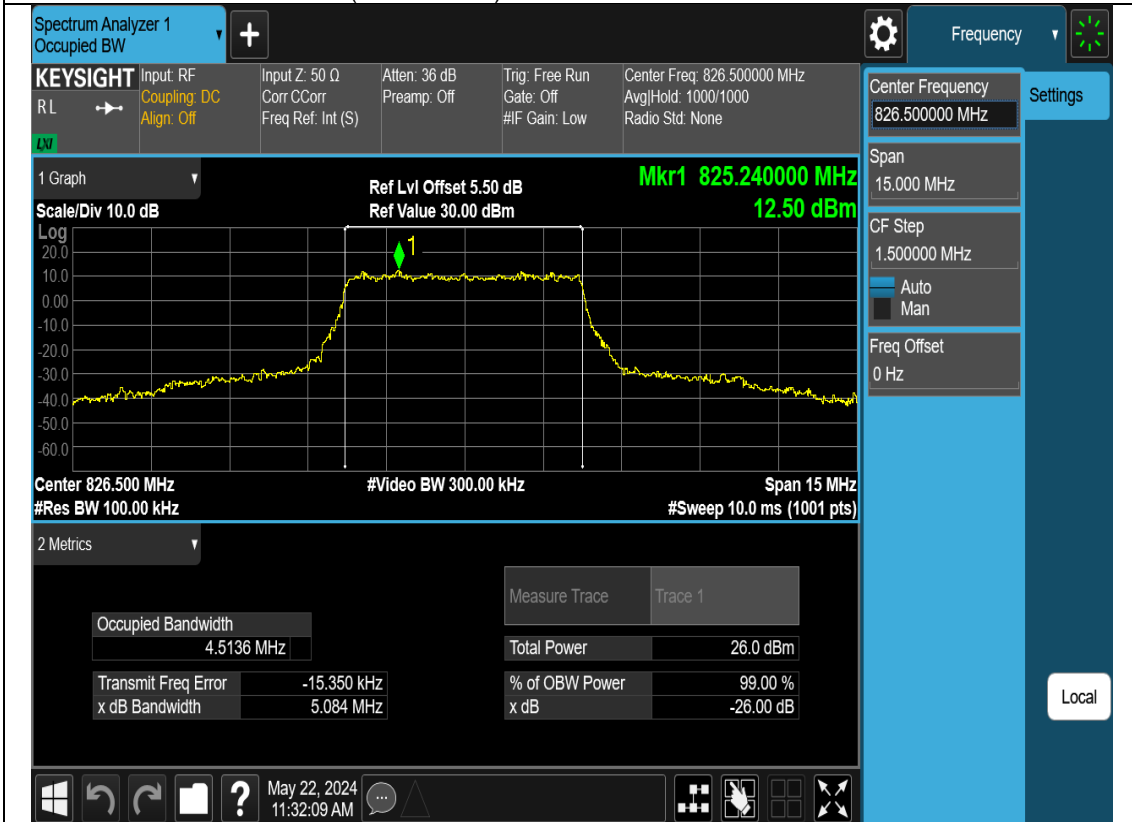
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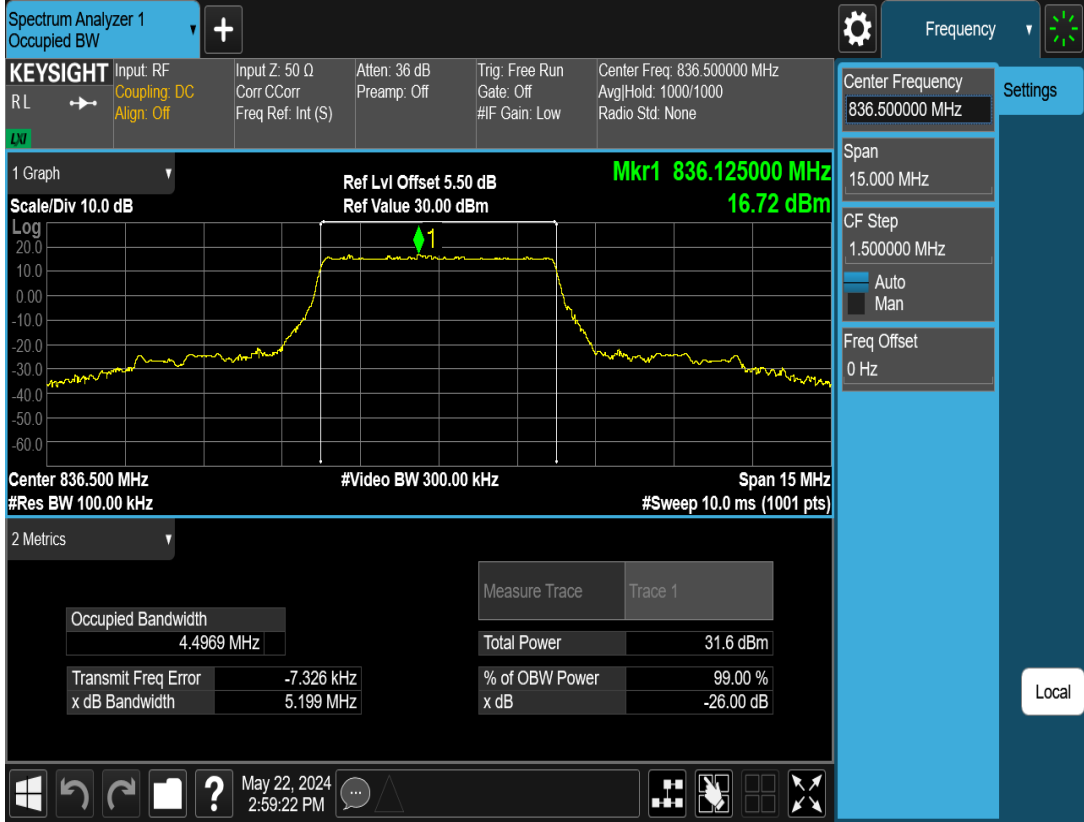
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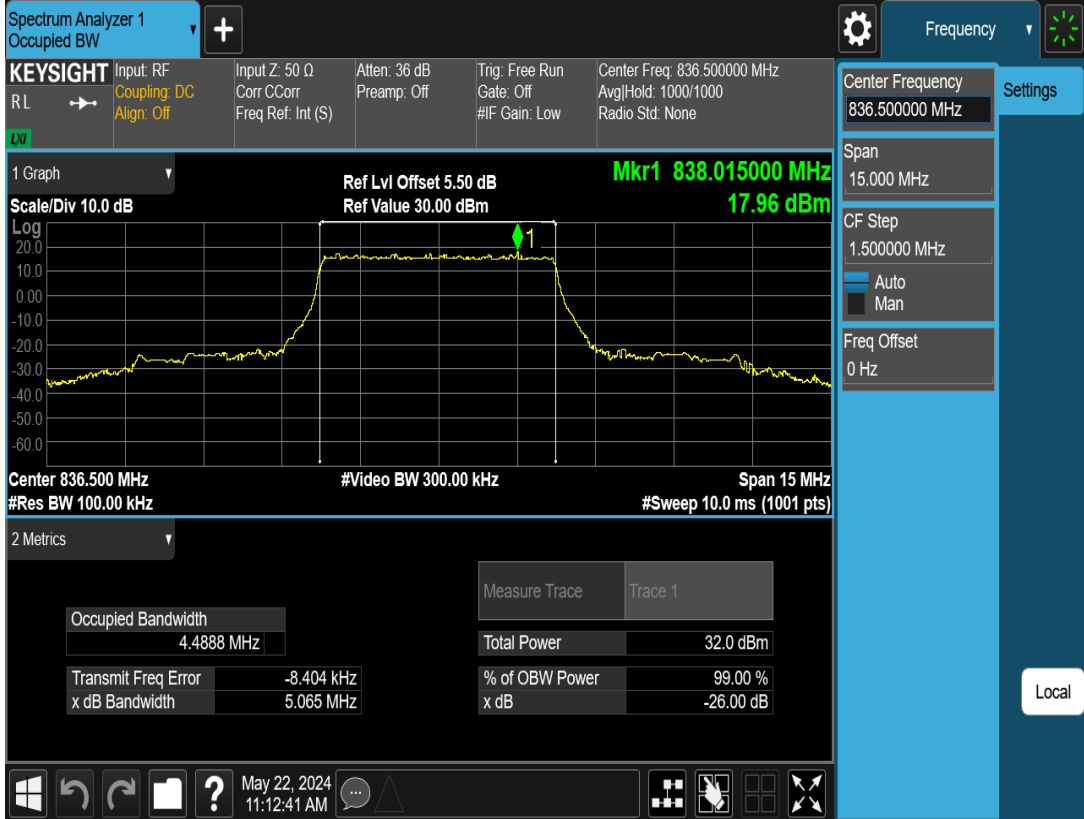
N26b(824-849MHz)-5M-OBW-L-CP-OFDM-256QAM



N26b(824-849MHz)-5M-OBW-M-DFT-s-OFDM-Pi2 BPSK



N26b(824-849MHz)-5M-OBW-M-DFT-s-OFDM-QPSK



N26b(824-849MHz)-5M-OBW-M-DFT-s-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: 836.500000 MHz
Avg/Hold: 1000/1000
Radio Std: None

Center Frequency: 836.500000 MHz
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 835.300000 MHz
16.58 dBm

Center 836.500 MHz
#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	4.5092 MHz	Total Power	31.8 dBm
Transmit Freq Error	-20.075 kHz	% of OBW Power	99.00 %
x dB Bandwidth	5.255 MHz	x dB	-26.00 dB

May 22, 2024
11:14:54 AM

Local

N26b(824-849MHz)-5M-OBW-M-DFT-s-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: 836.500000 MHz
Avg/Hold: 1000/1000
Radio Std: None

Center Frequency: 836.500000 MHz
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 834.415000 MHz
16.24 dBm

Center 836.500 MHz
#Res BW 100.00 kHz
#Video BW 300.00 kHz
Span 15 MHz
#Sweep 10.0 ms (1001 pts)

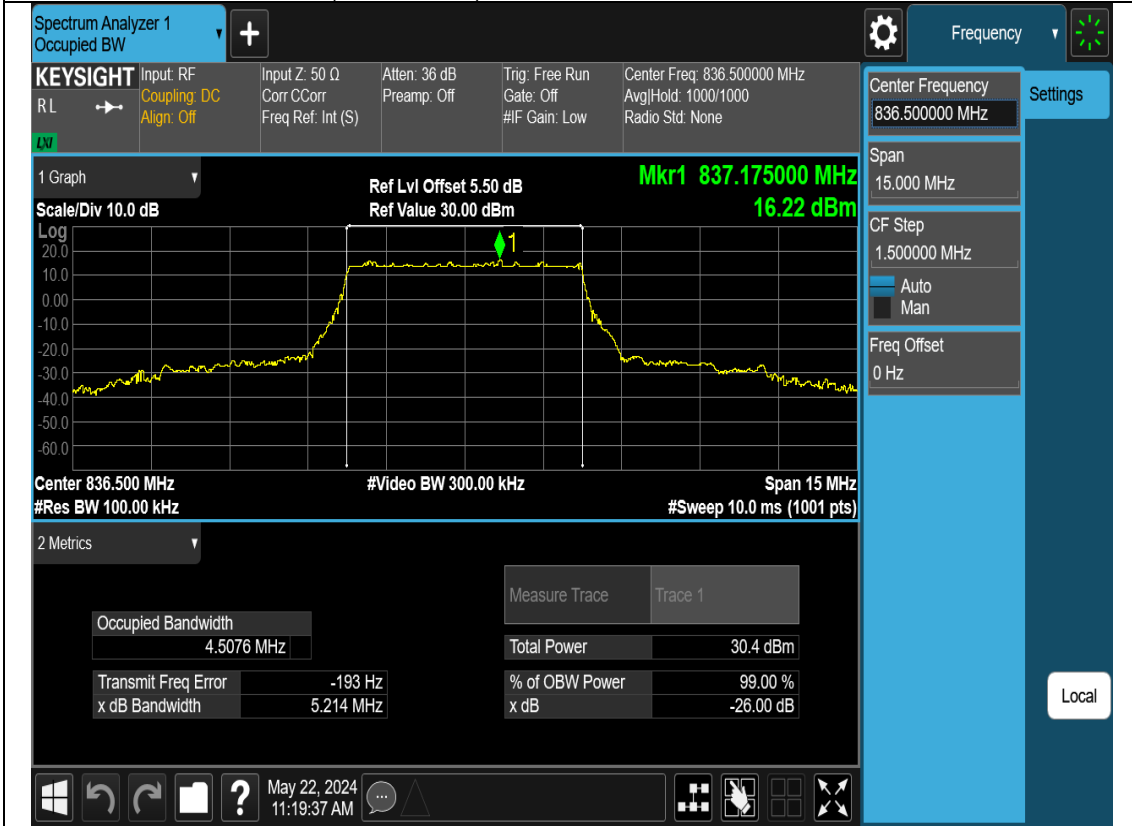
2 Metrics

Measure Trace		Trace 1	
Occupied Bandwidth	4.5216 MHz	Total Power	30.7 dBm
Transmit Freq Error	-6.379 kHz	% of OBW Power	99.00 %
x dB Bandwidth	5.269 MHz	x dB	-26.00 dB

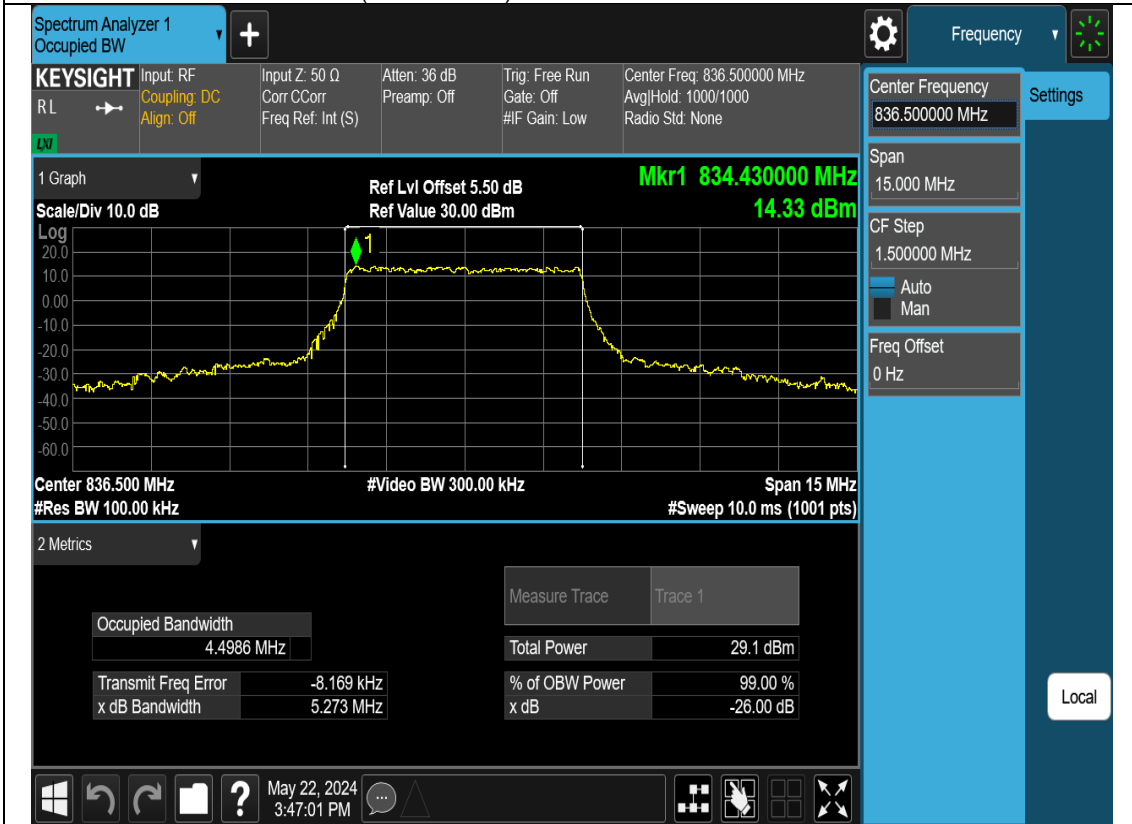
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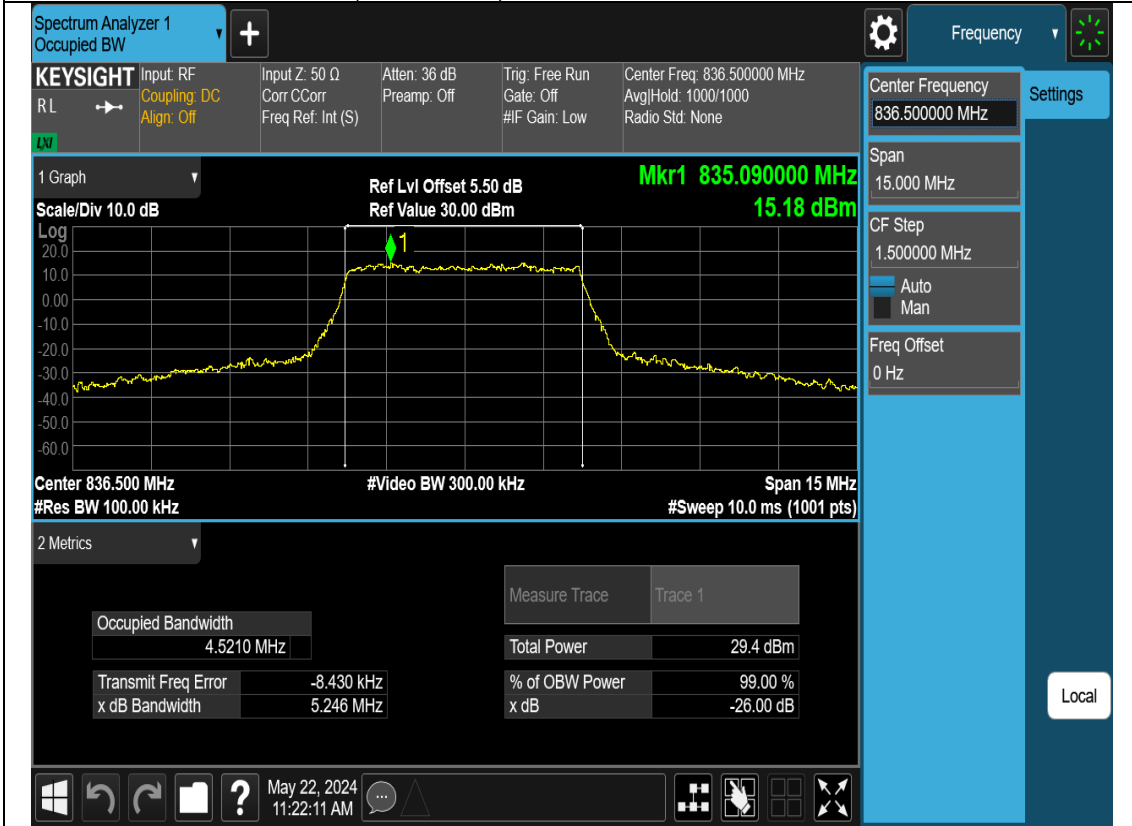
N26b(824-849MHz)-5M-OBW-M-DFT-s-OFDM-256QAM



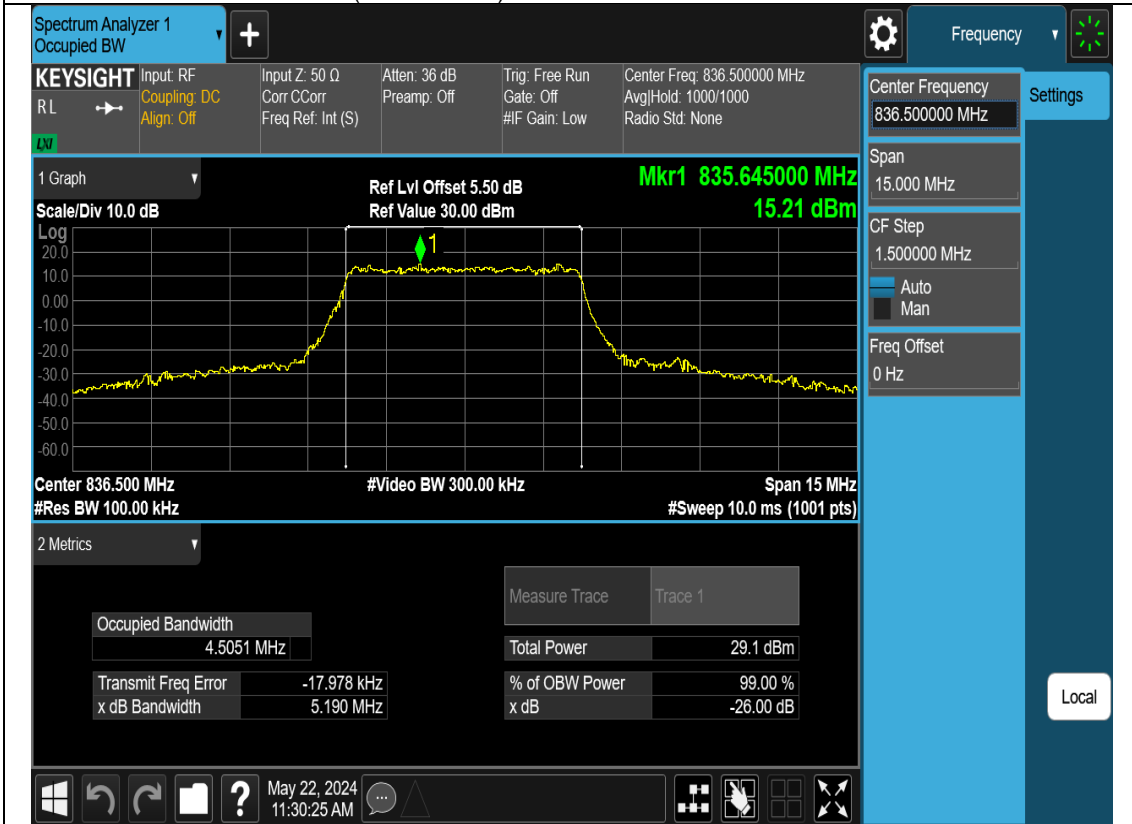
N26b(824-849MHz)-5M-OBW-M-CP-OFDM-QPSK



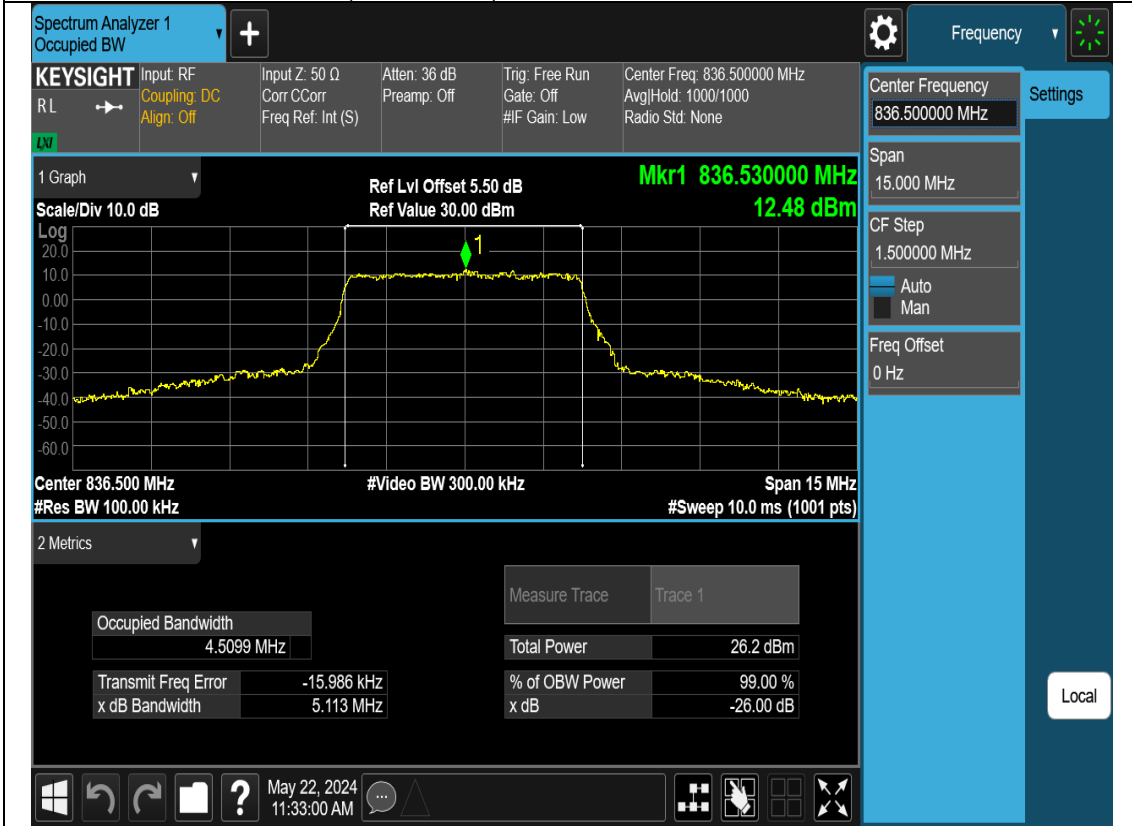
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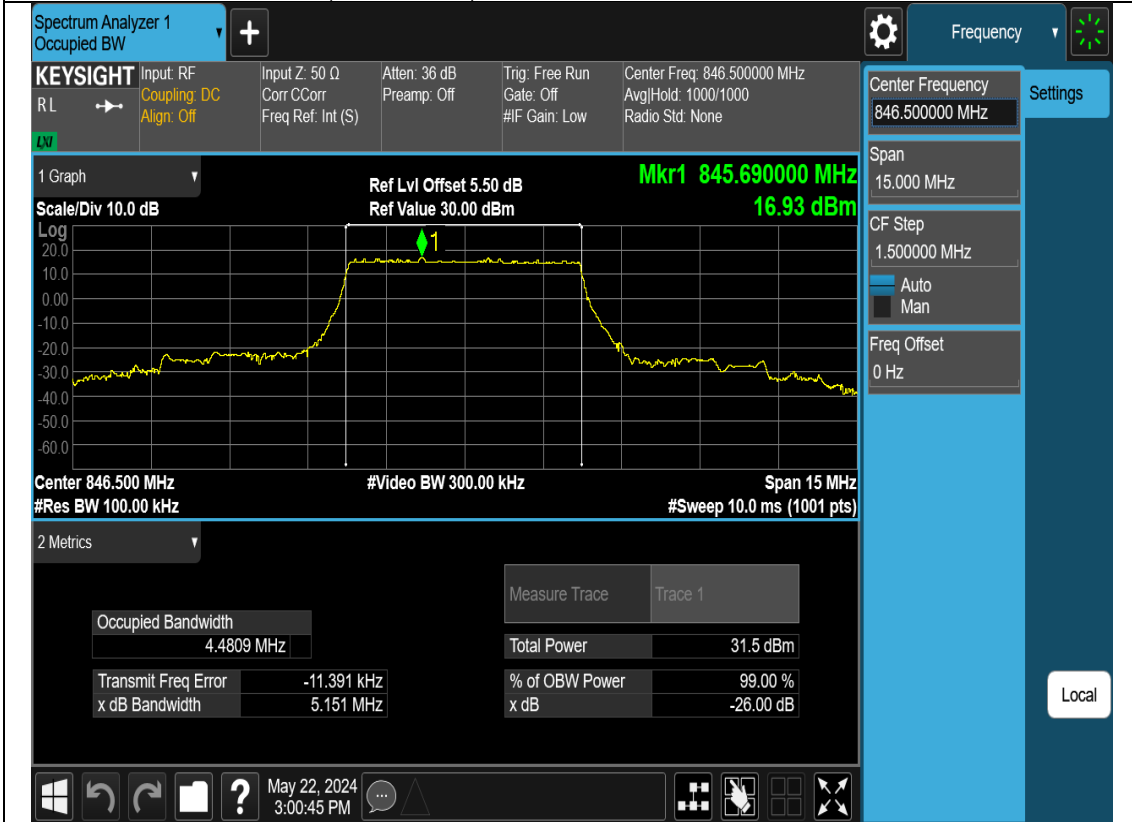
N26b(824-849MHz)-5M-OBW-M-CP-OFDM-64QAM



N26b(824-849MHz)-5M-OBW-M-CP-OFDM-256QAM



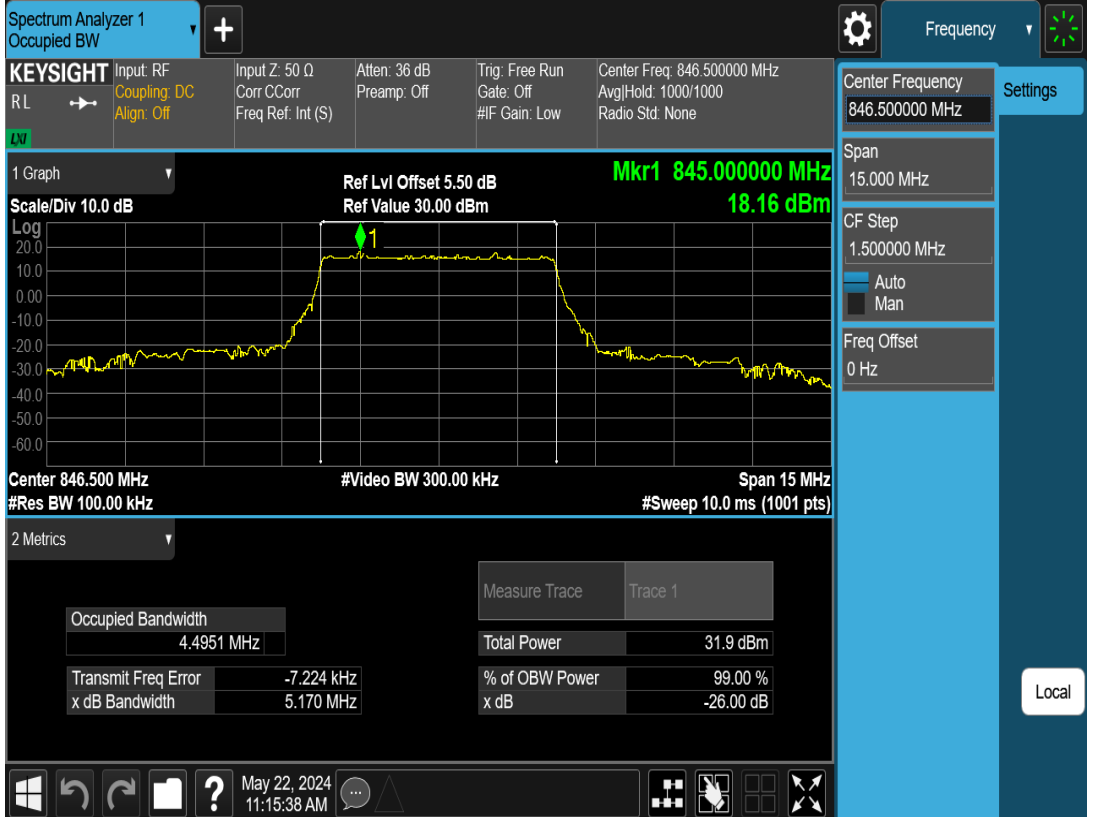
N26b(824-849MHz)-5M-OBW-H-DFT-s-OFDM-Pi2 BPSK



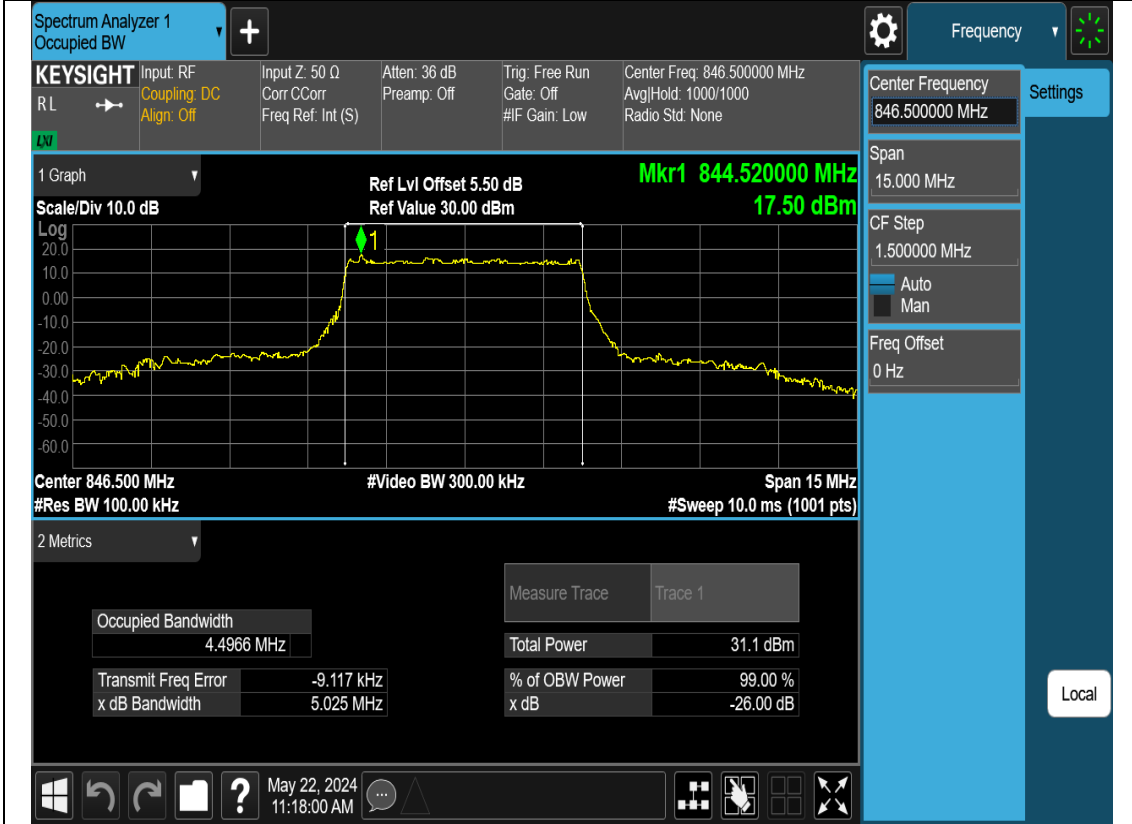
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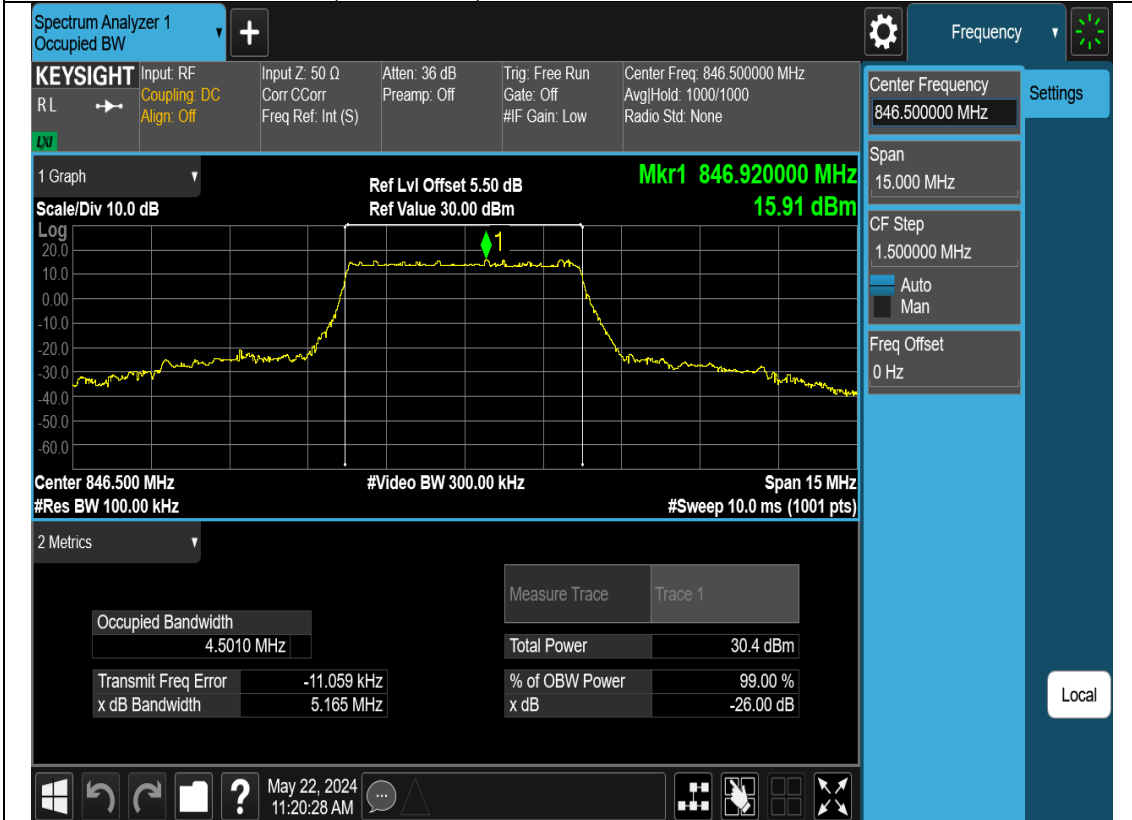
N26b(824-849MHz)-5M-OBW-H-DFT-s-OFDM-16QAM



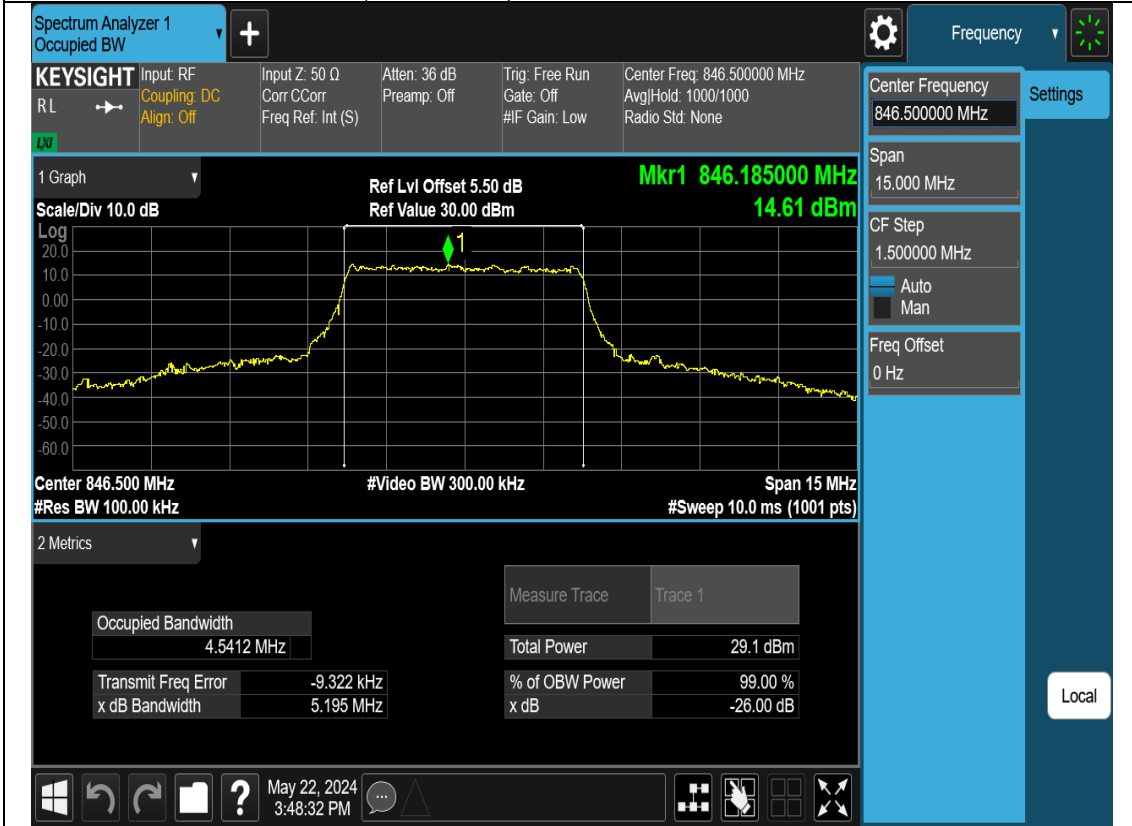
N26b(824-849MHz)-5M-OBW-H-DFT-s-OFDM-64QAM



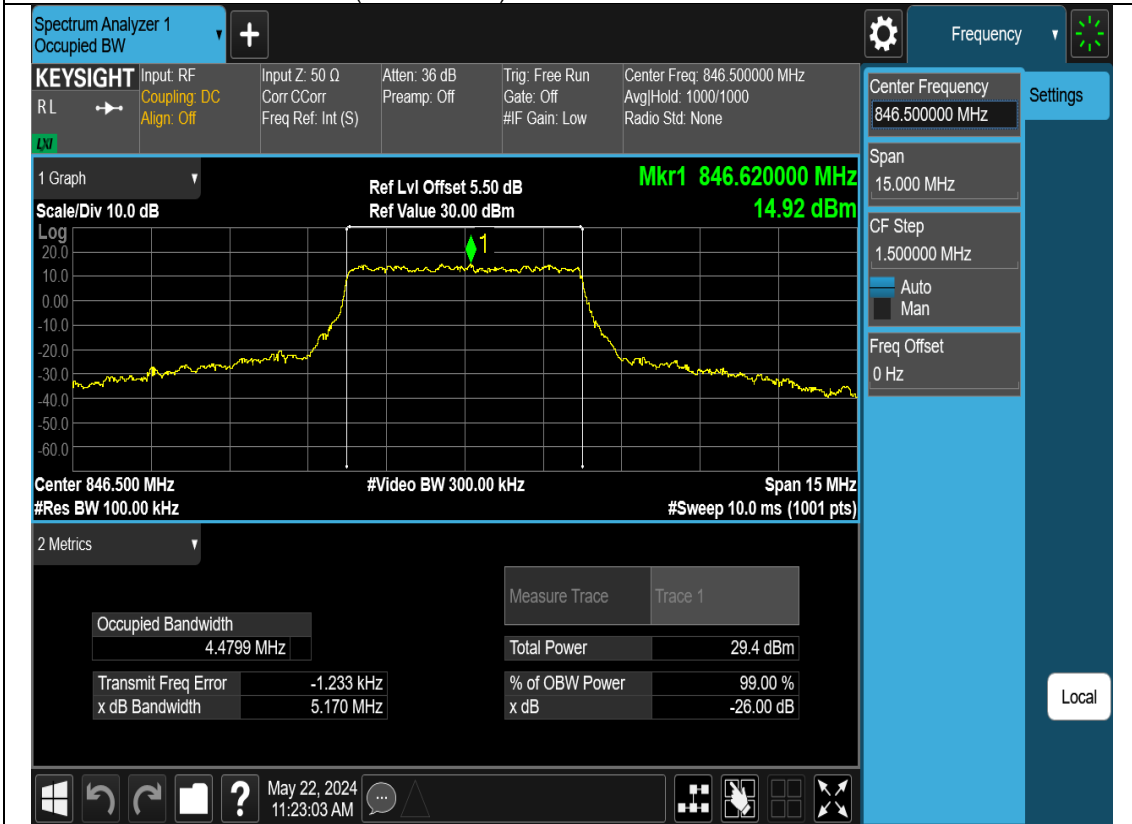
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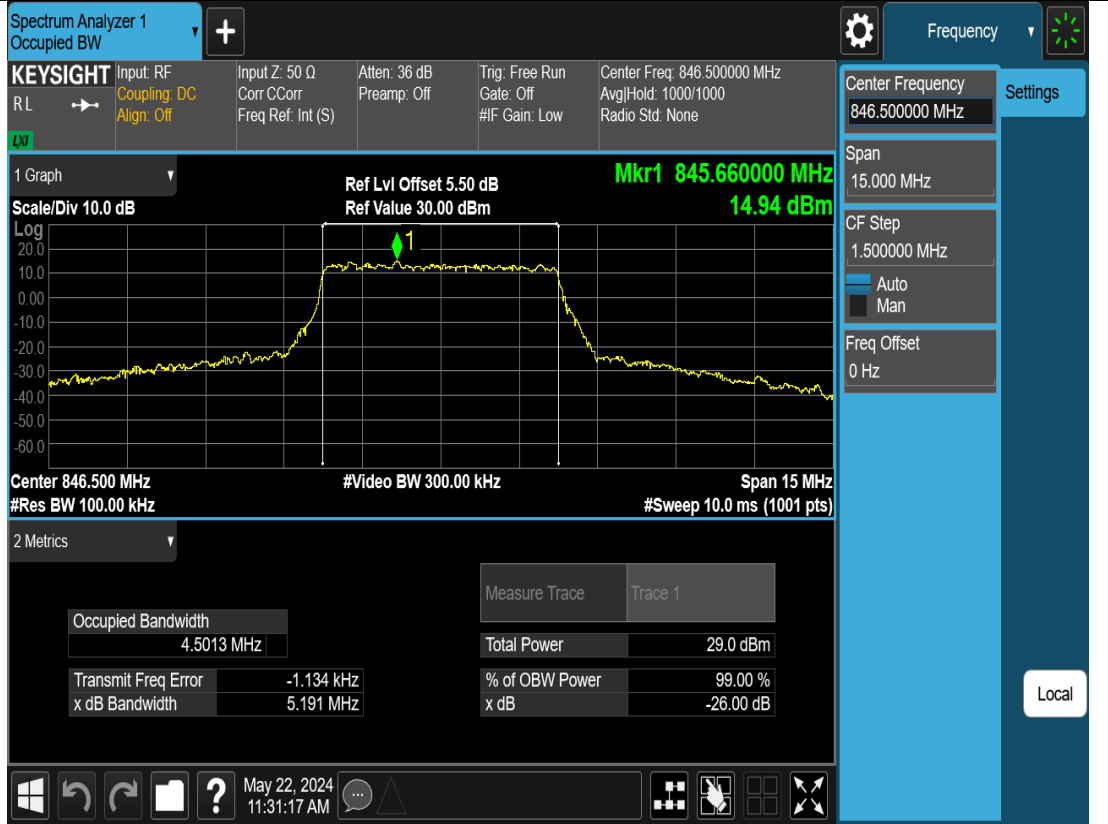
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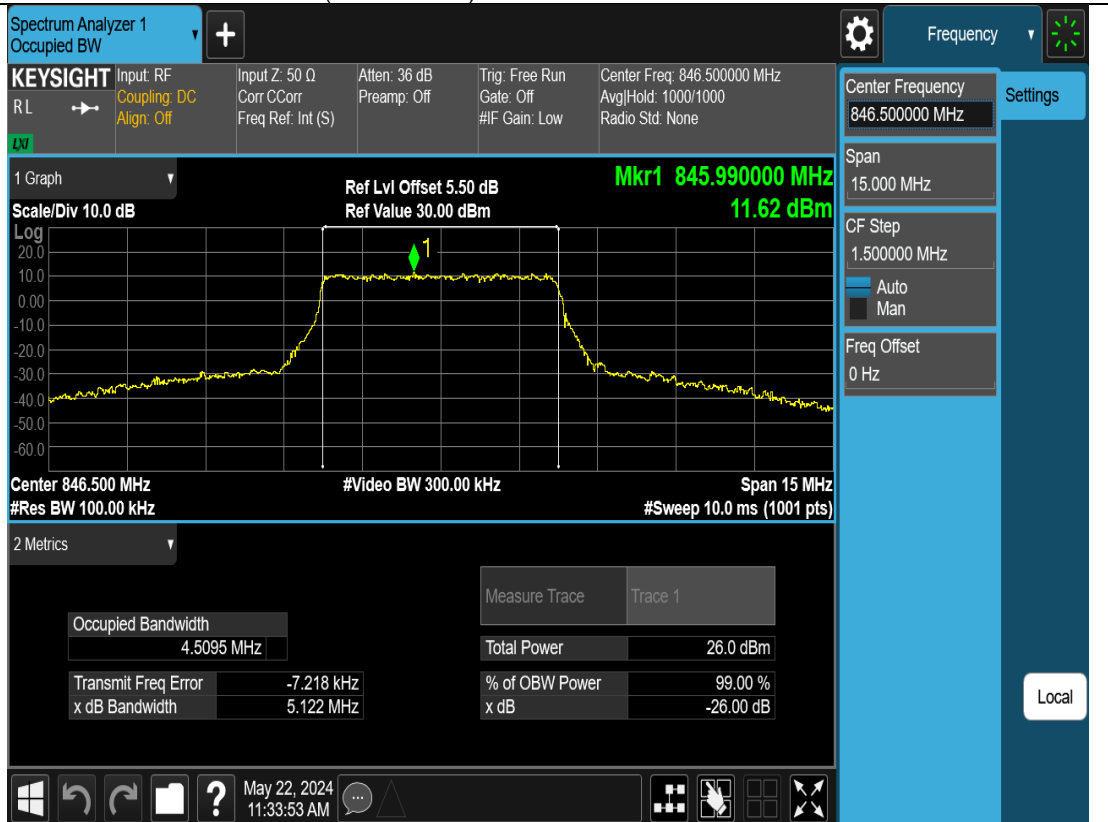
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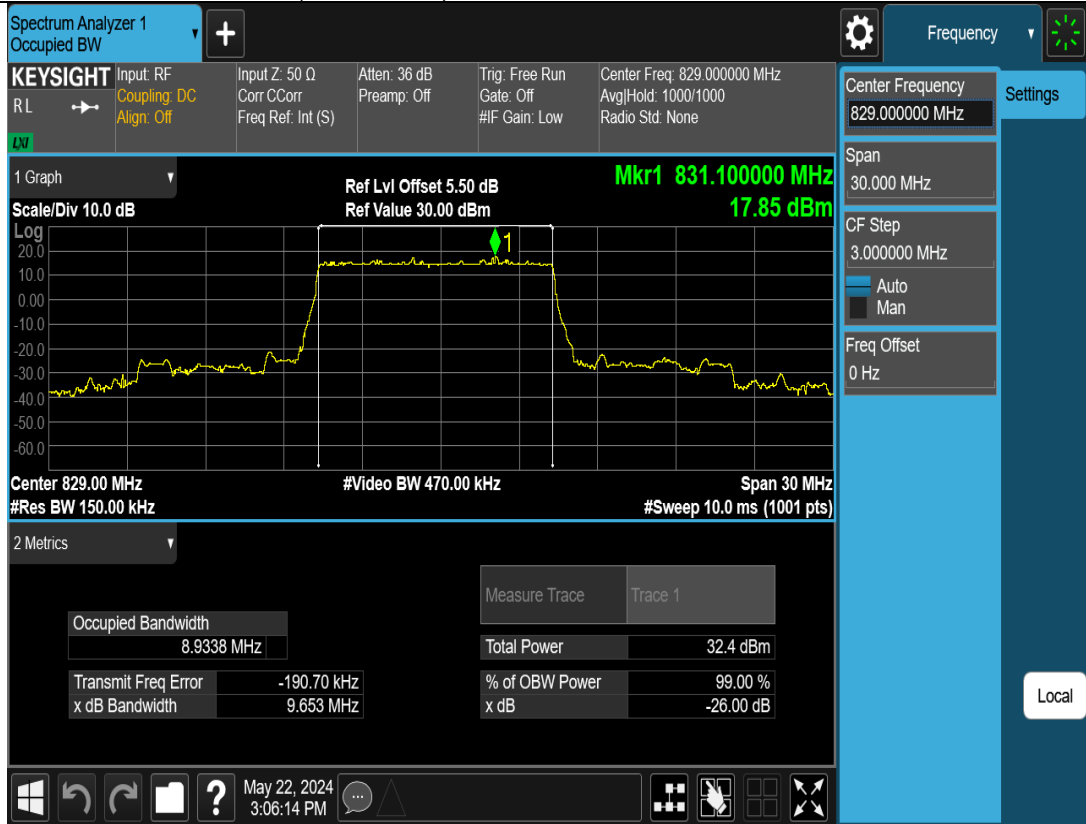
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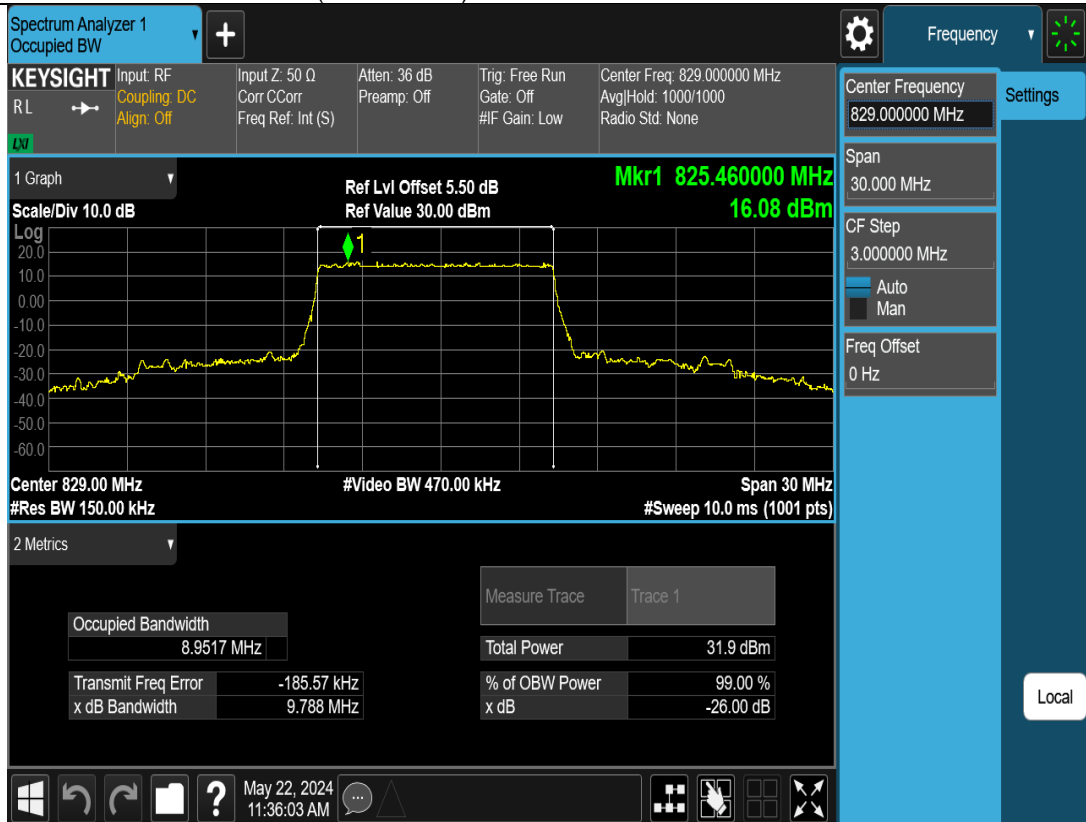
N26b(824-849MHz)-5M-OBW-H-CP-OFDM-256QAM



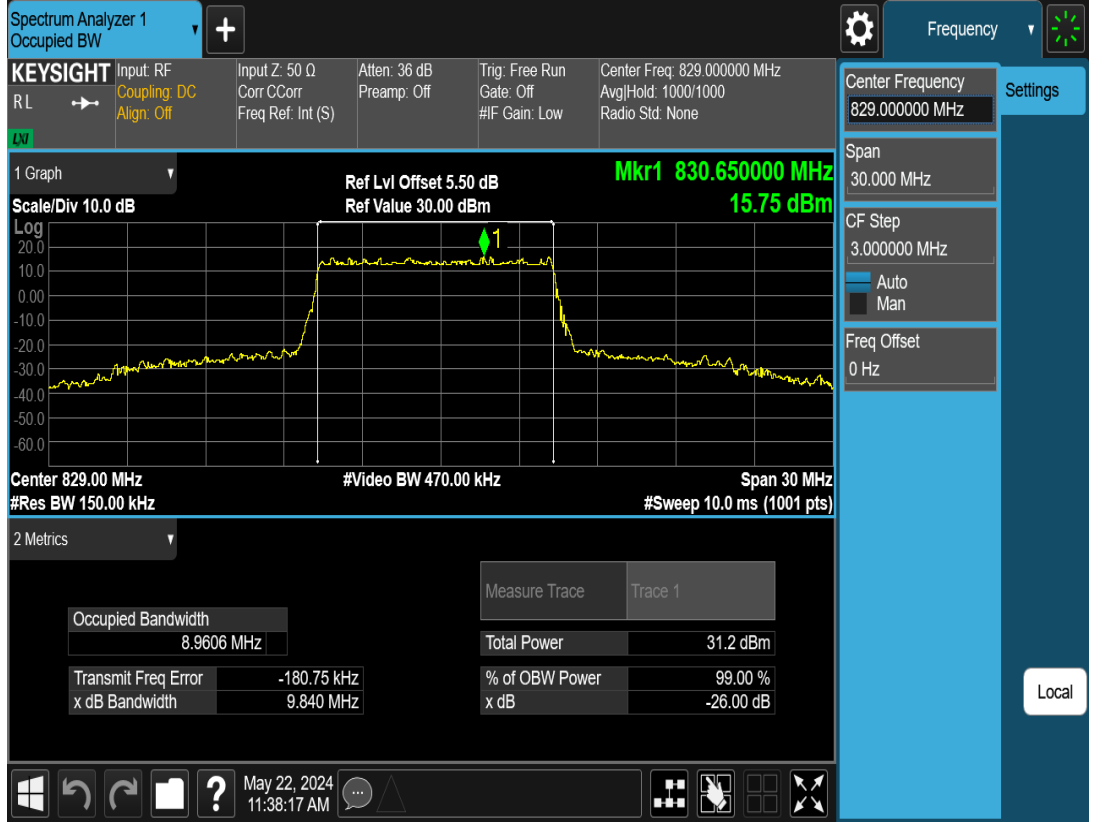
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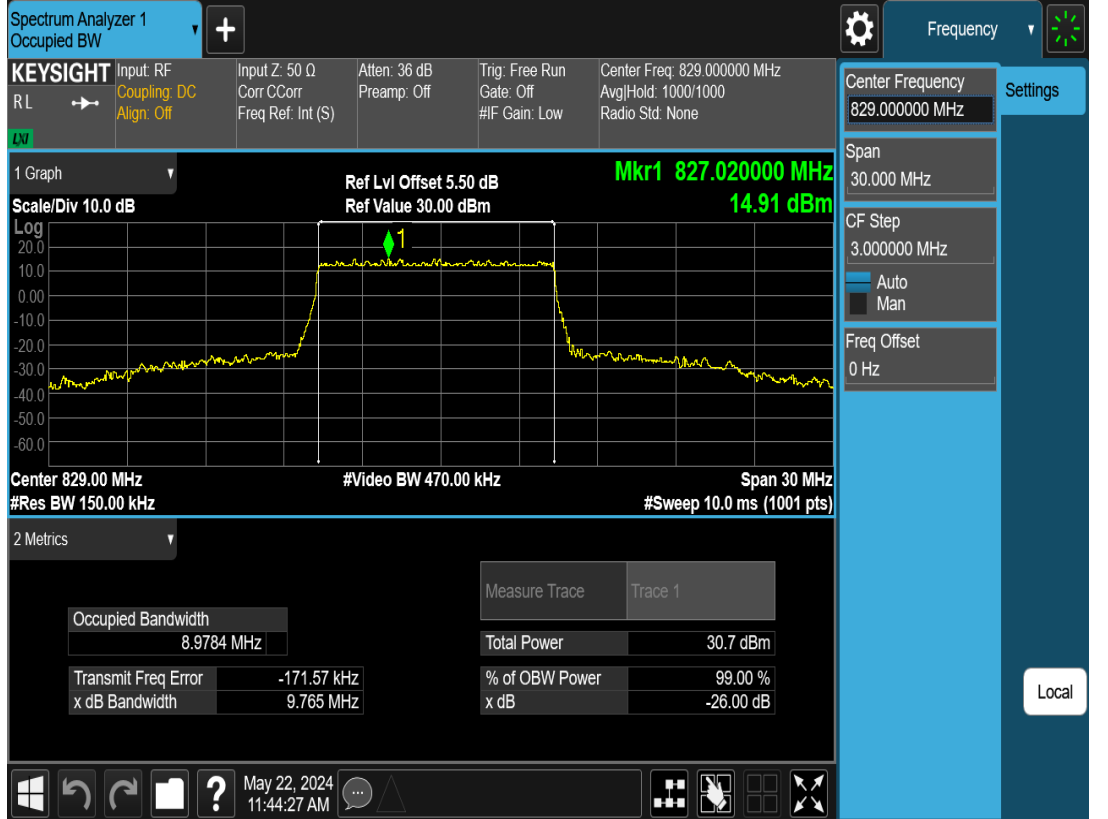
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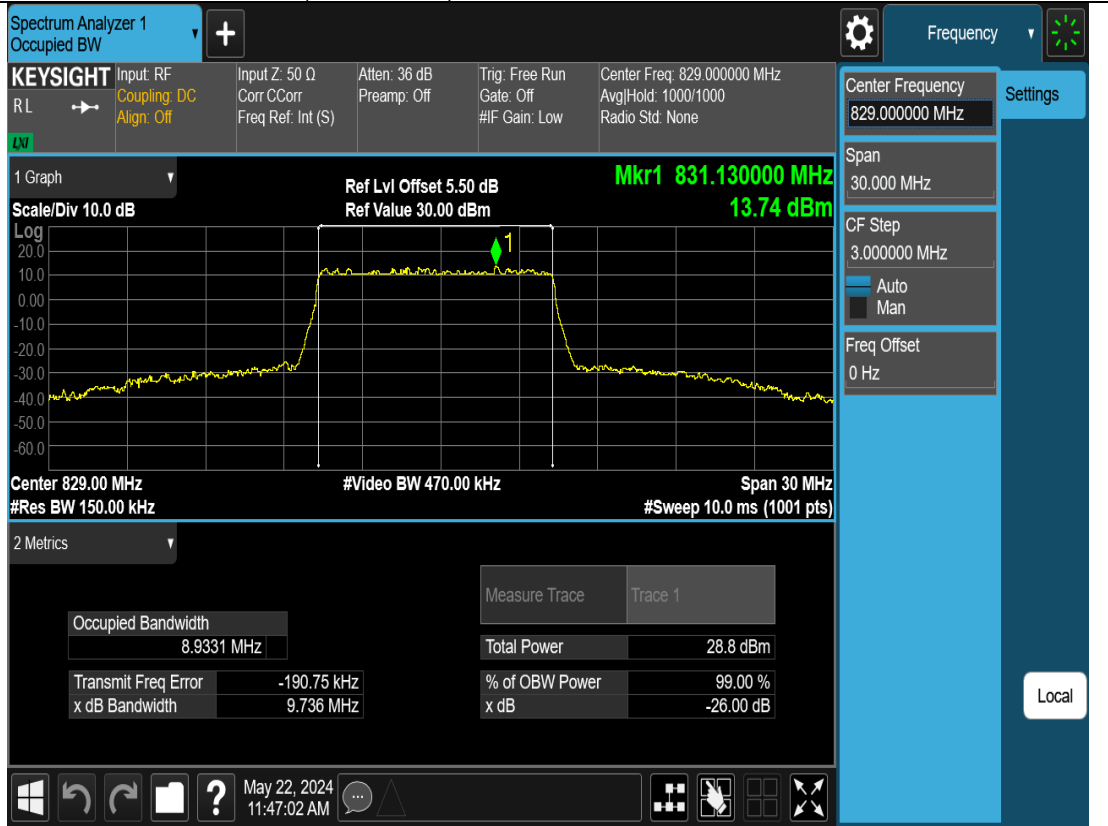
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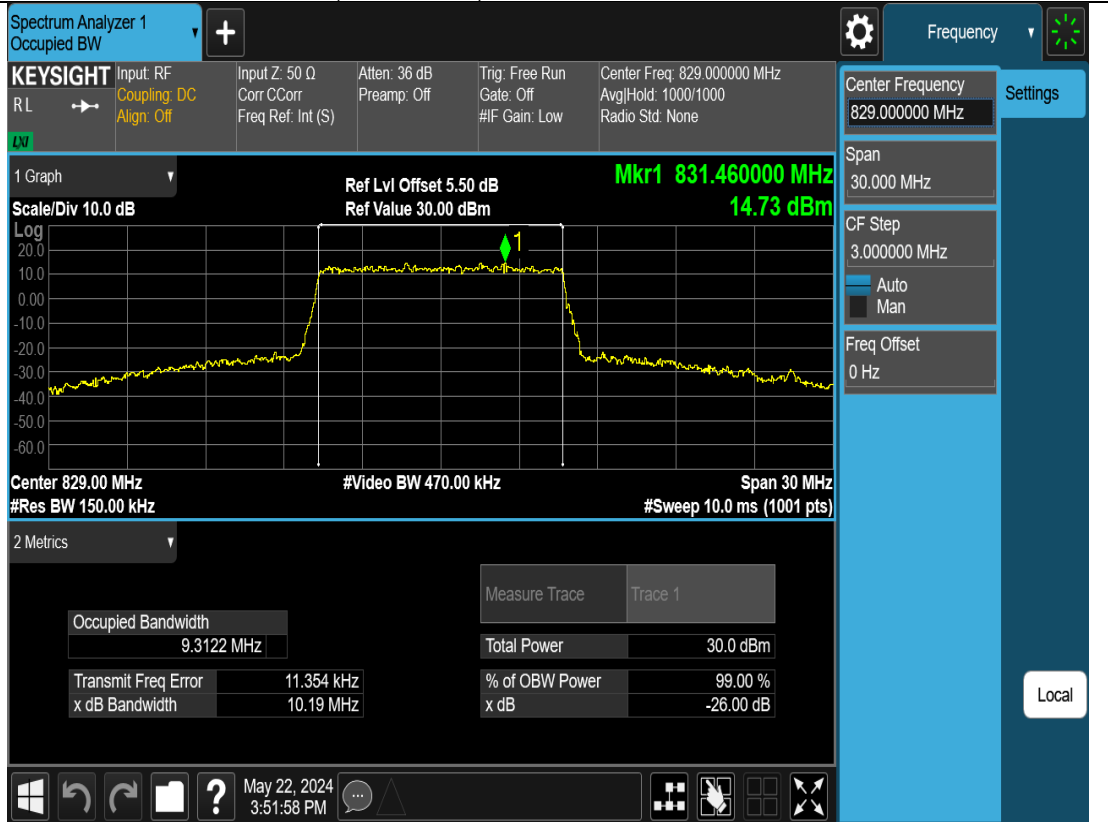
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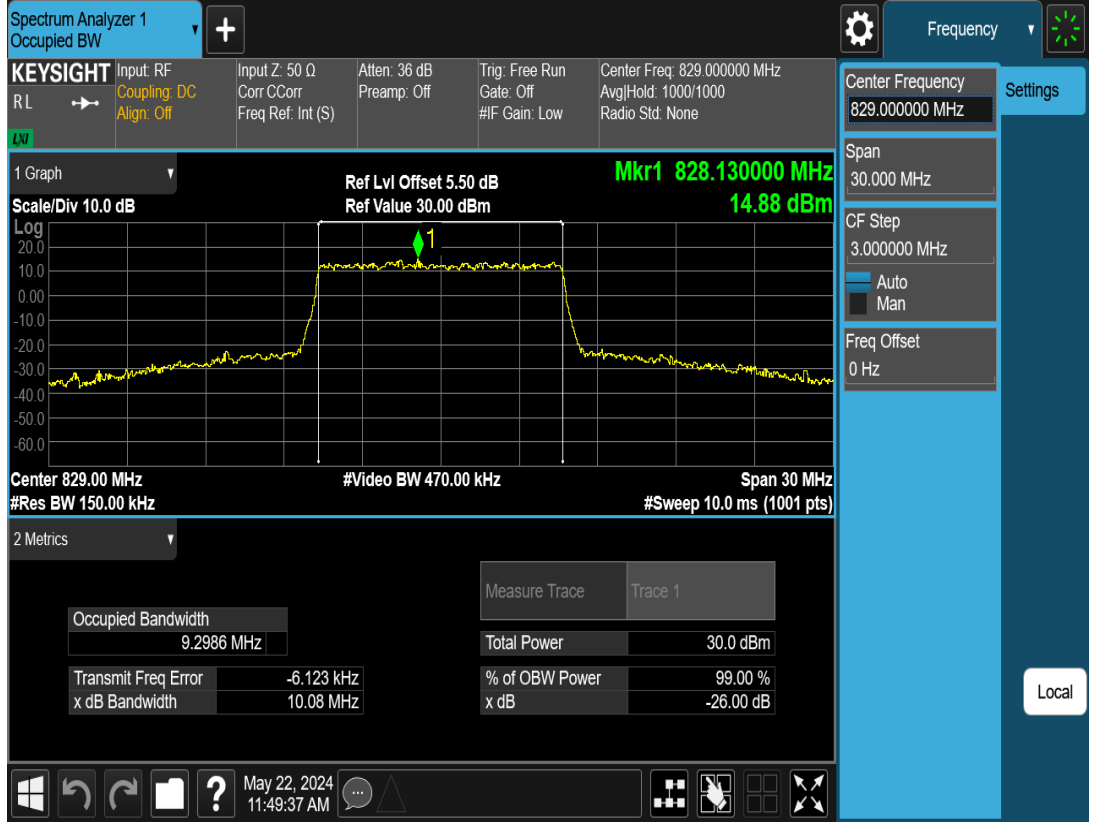
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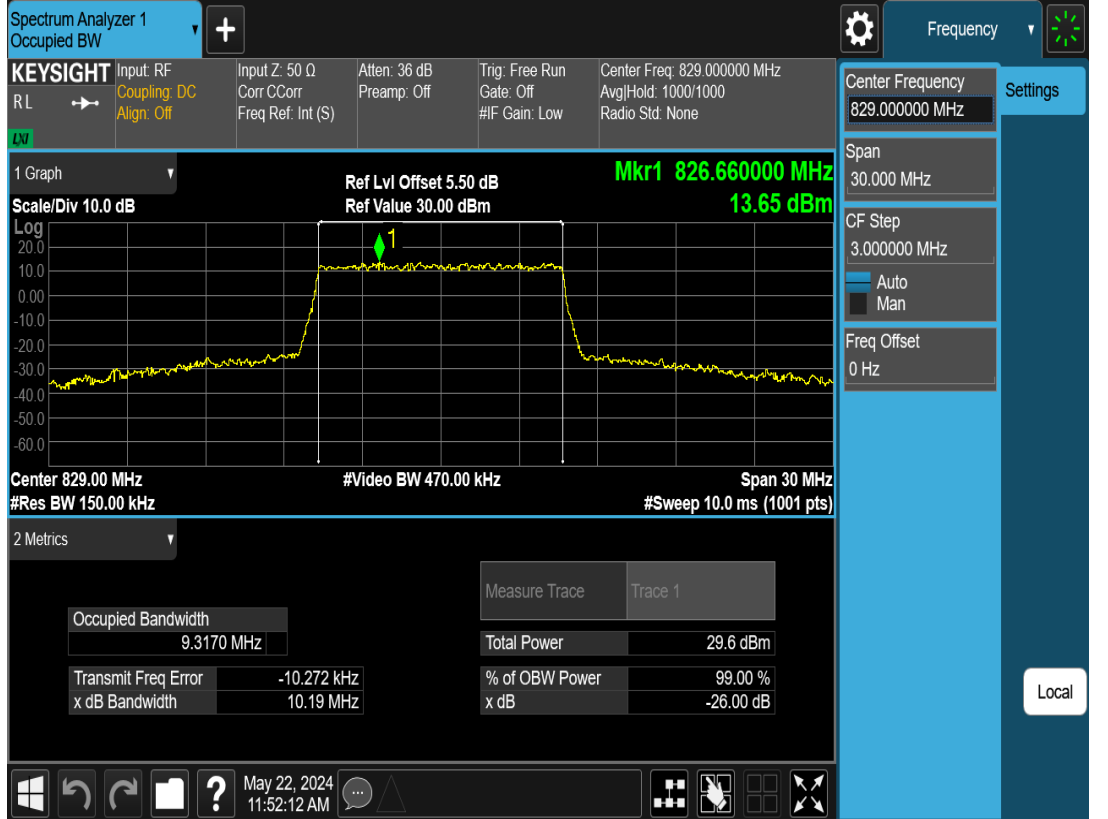
N26b(824-849MHz)-10M-OBW-L-CP-OFDM-QPSK



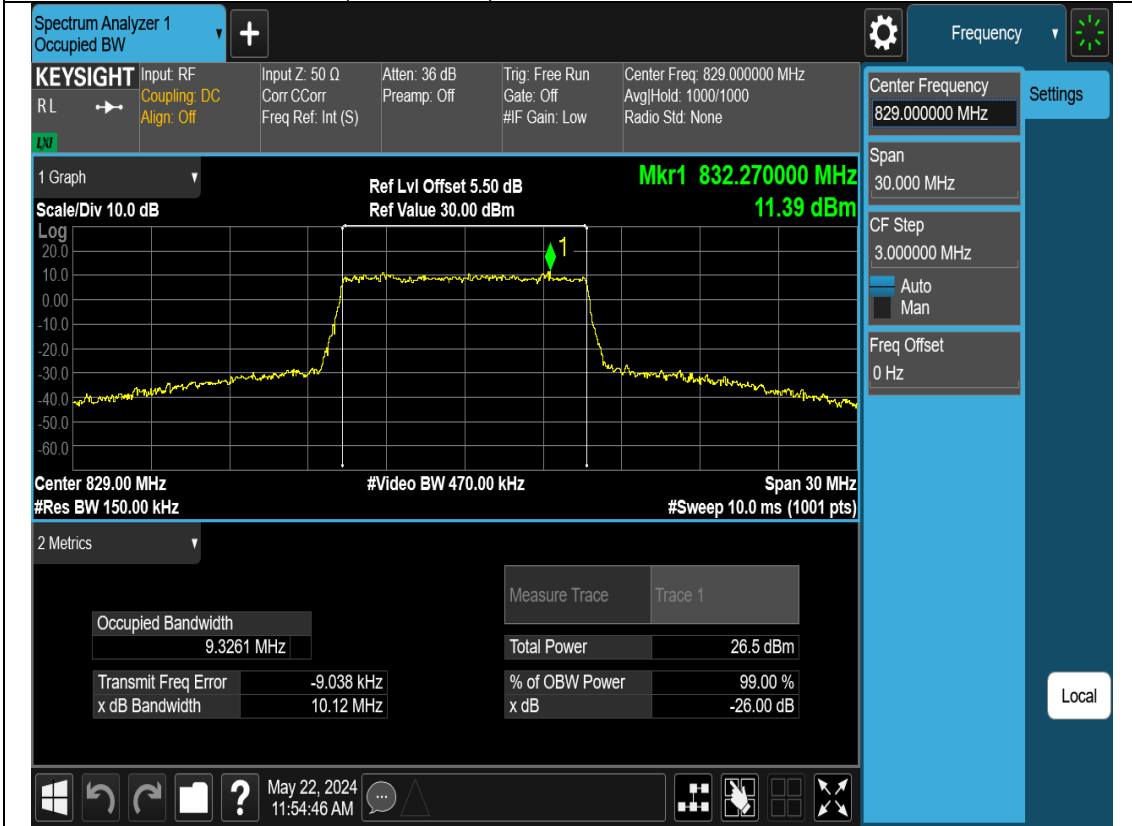
N26b(824-849MHz)-10M-OBW-L-CP-OFDM-16QAM



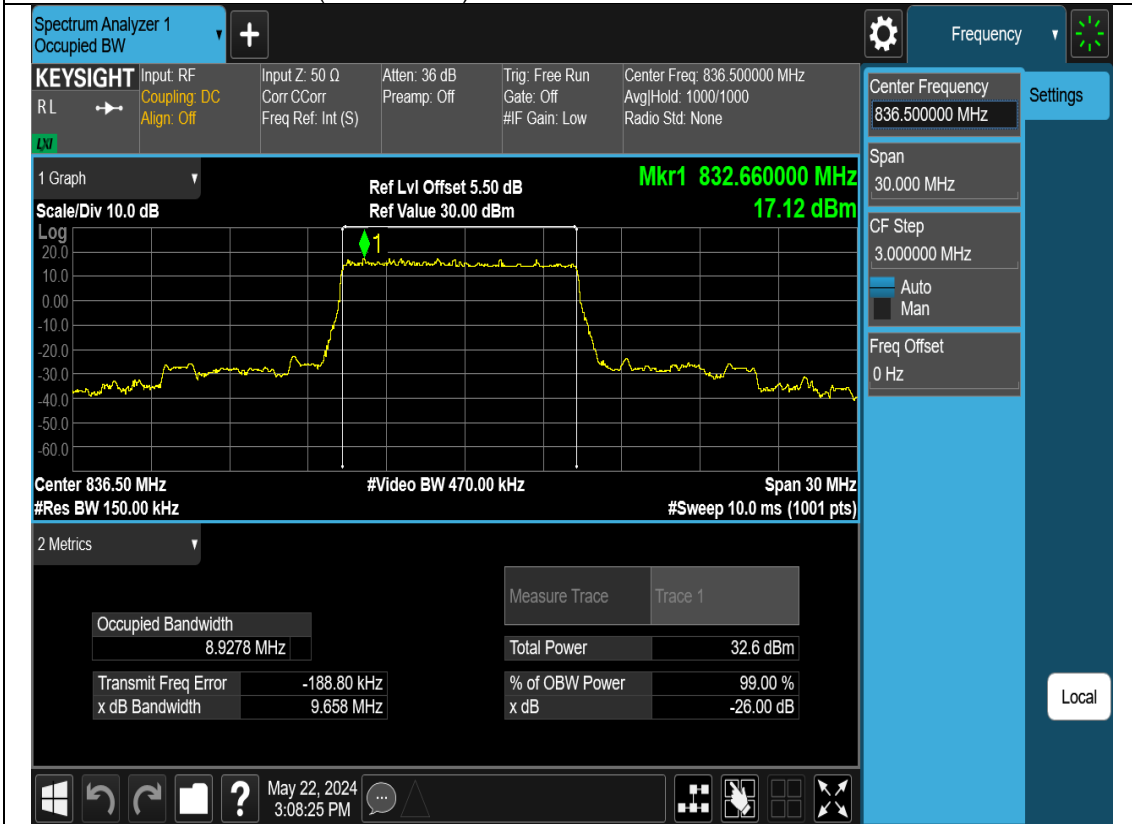
N26b(824-849MHz)-10M-OBW-L-CP-OFDM-64QAM



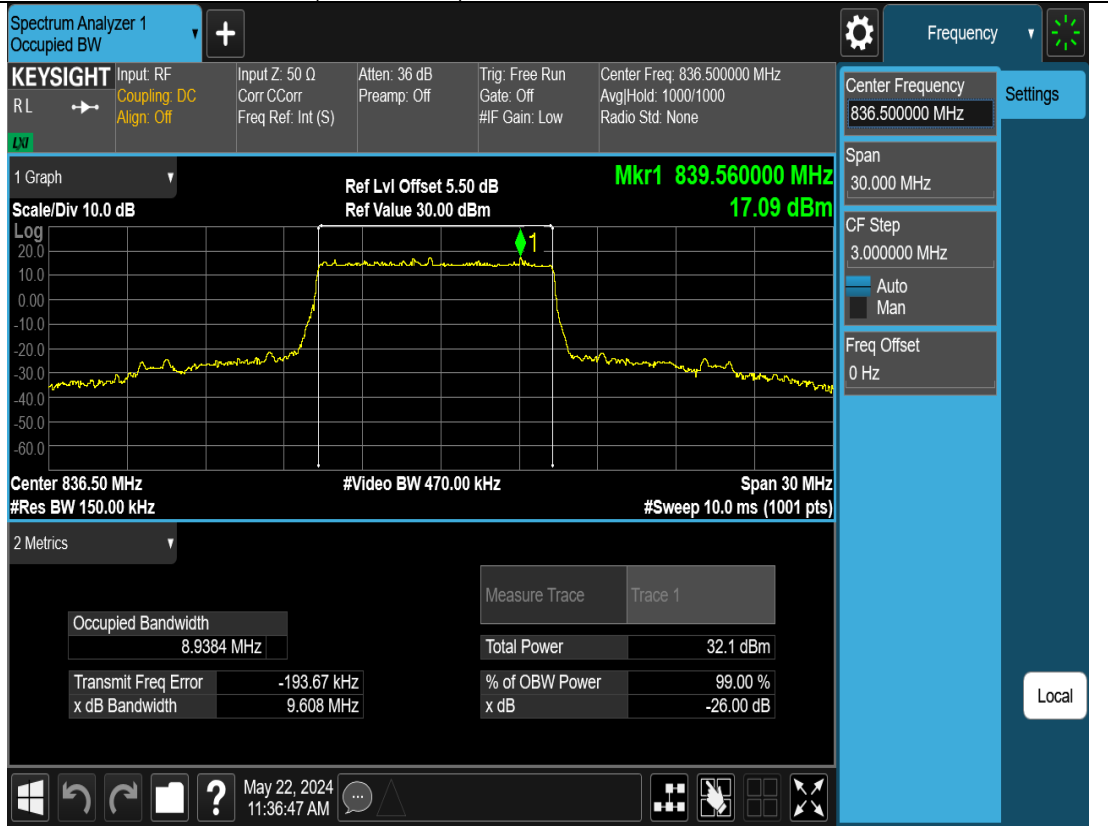
N26b(824-849MHz)-10M-OBW-L-CP-OFDM-256QAM



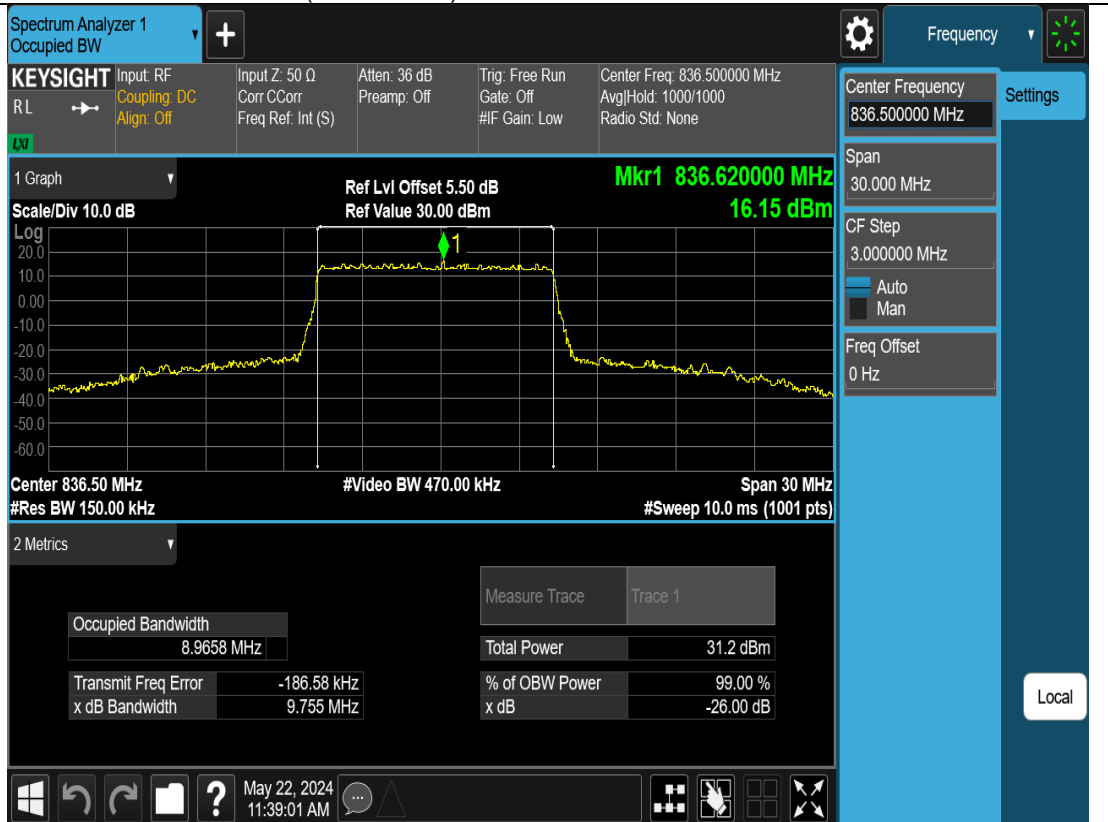
N26b(824-849MHz)-10M-OBW-M-DFT-s-OFDM-Pi2 BPSK



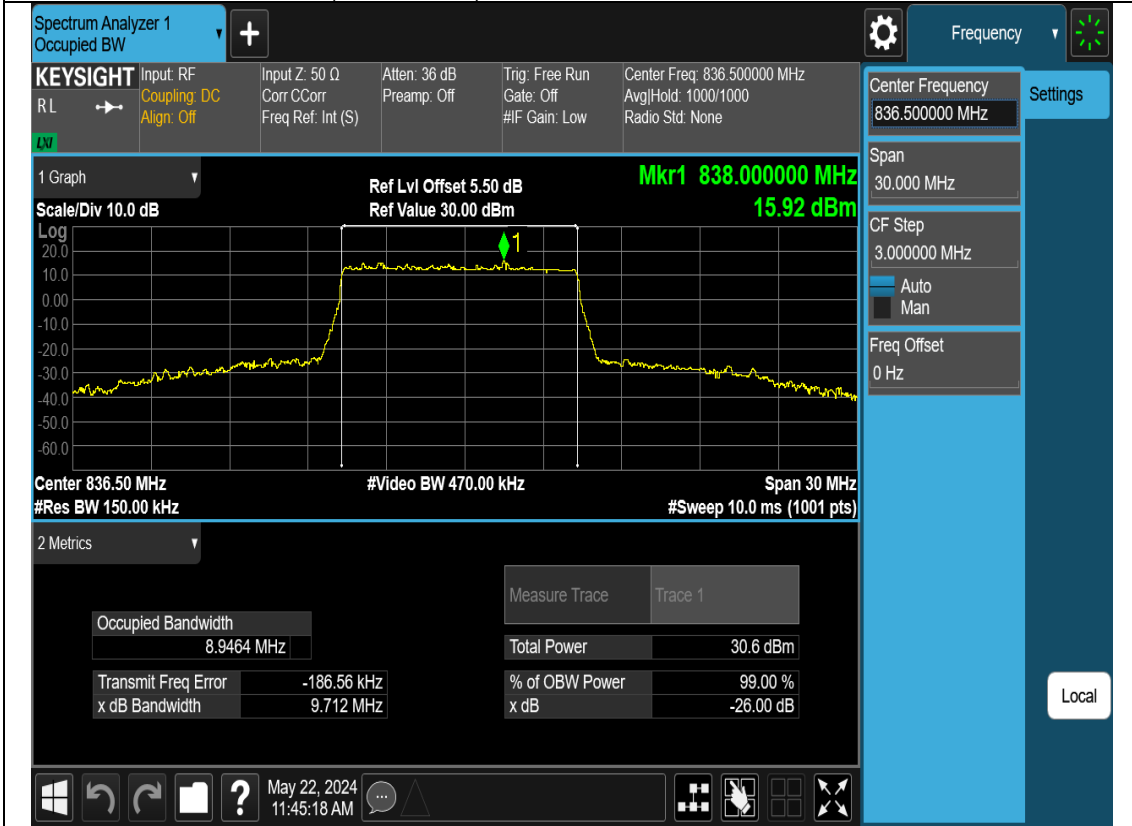
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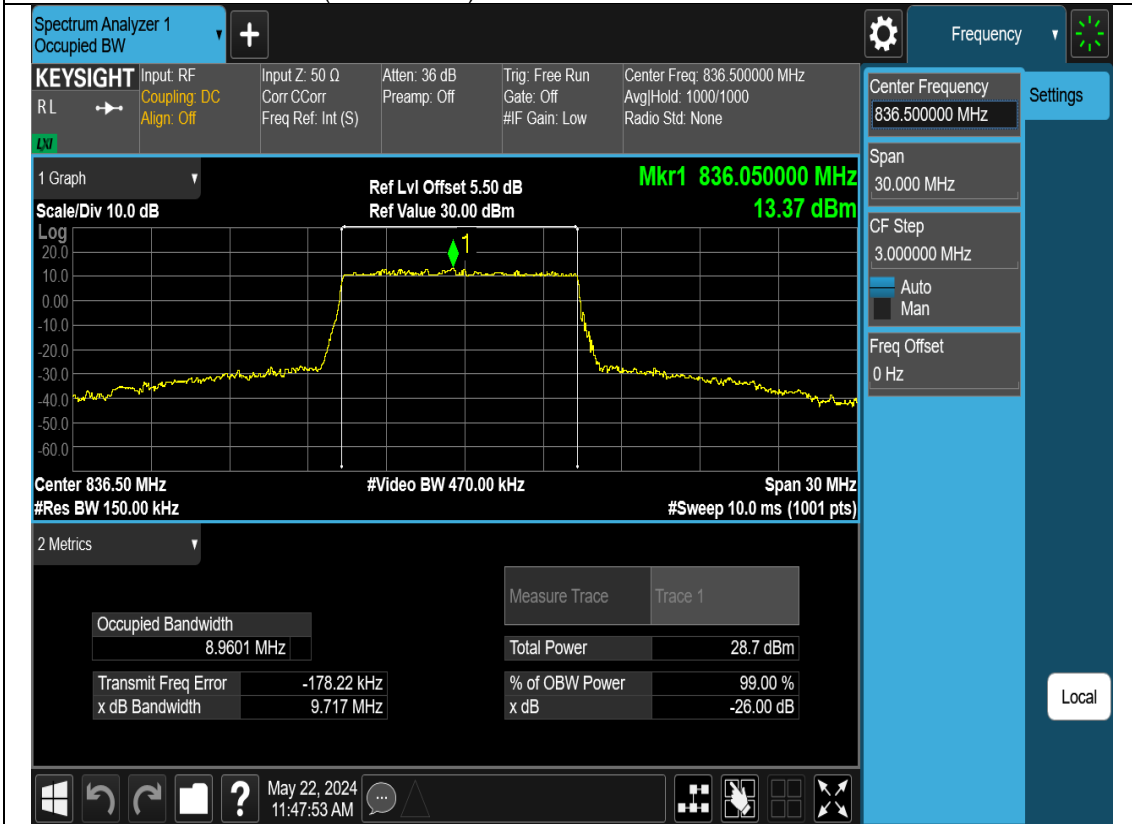
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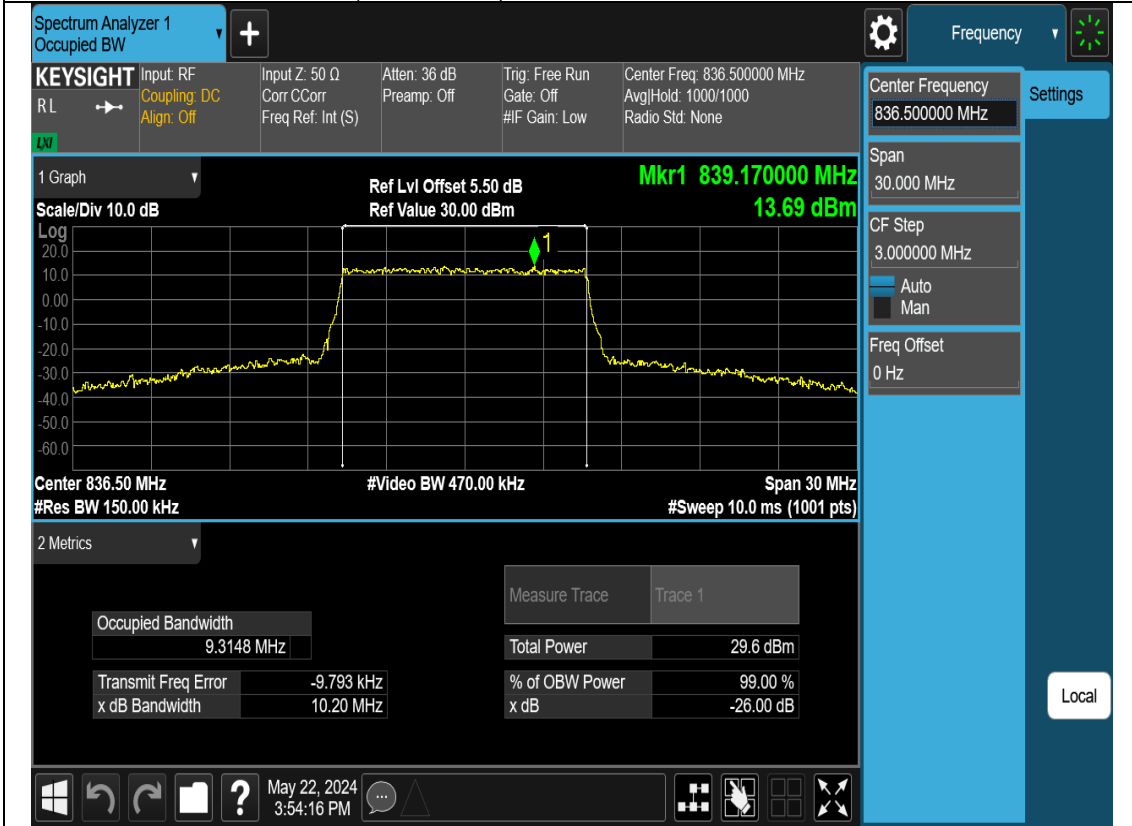
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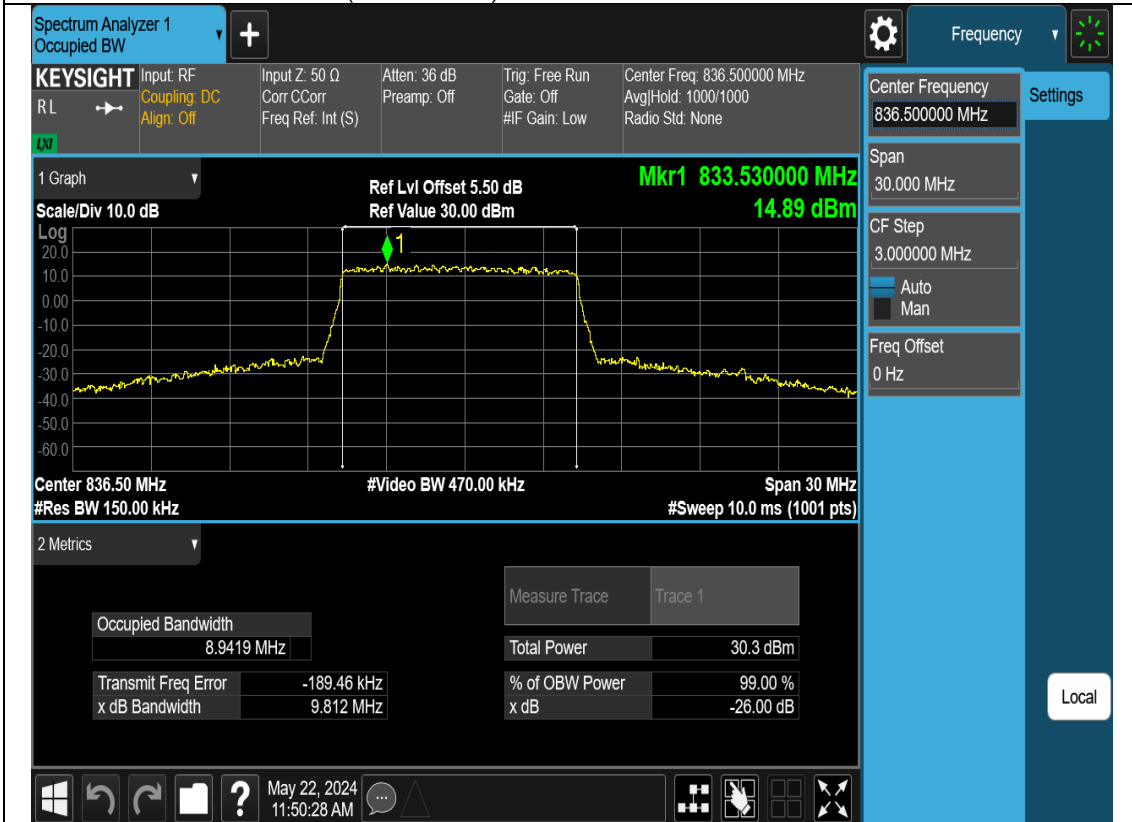
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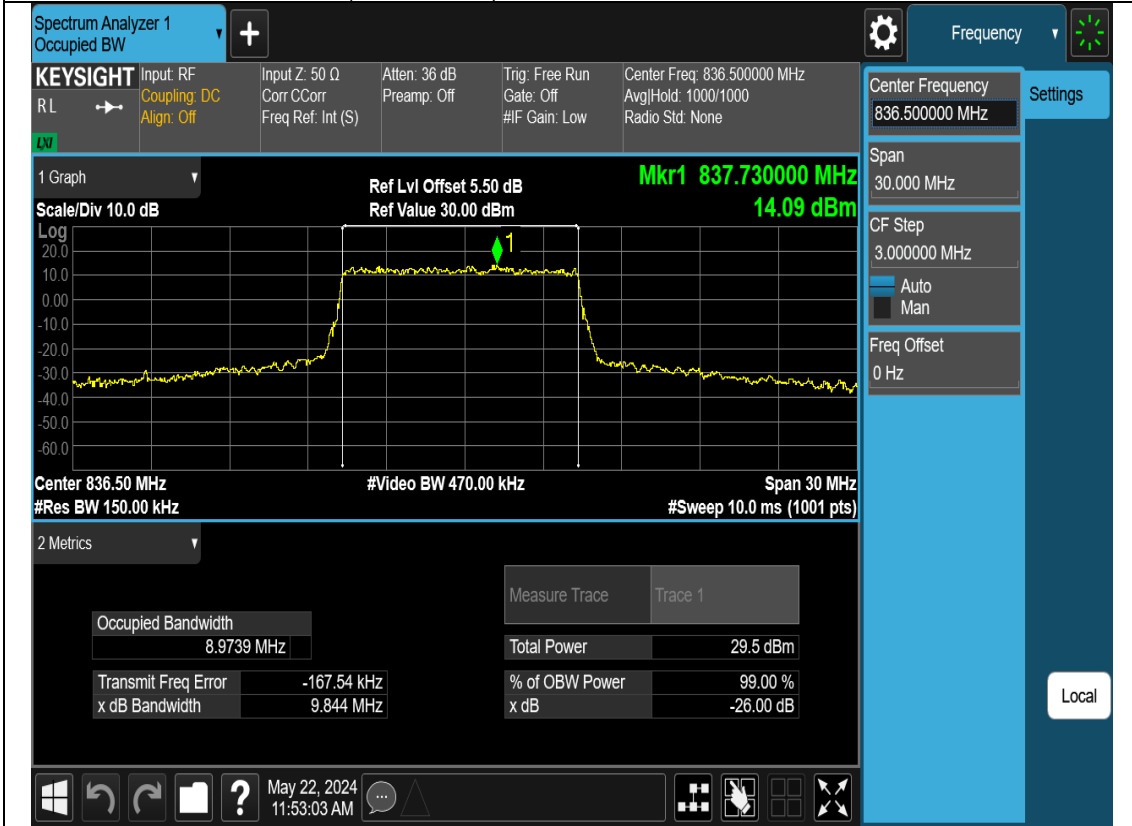
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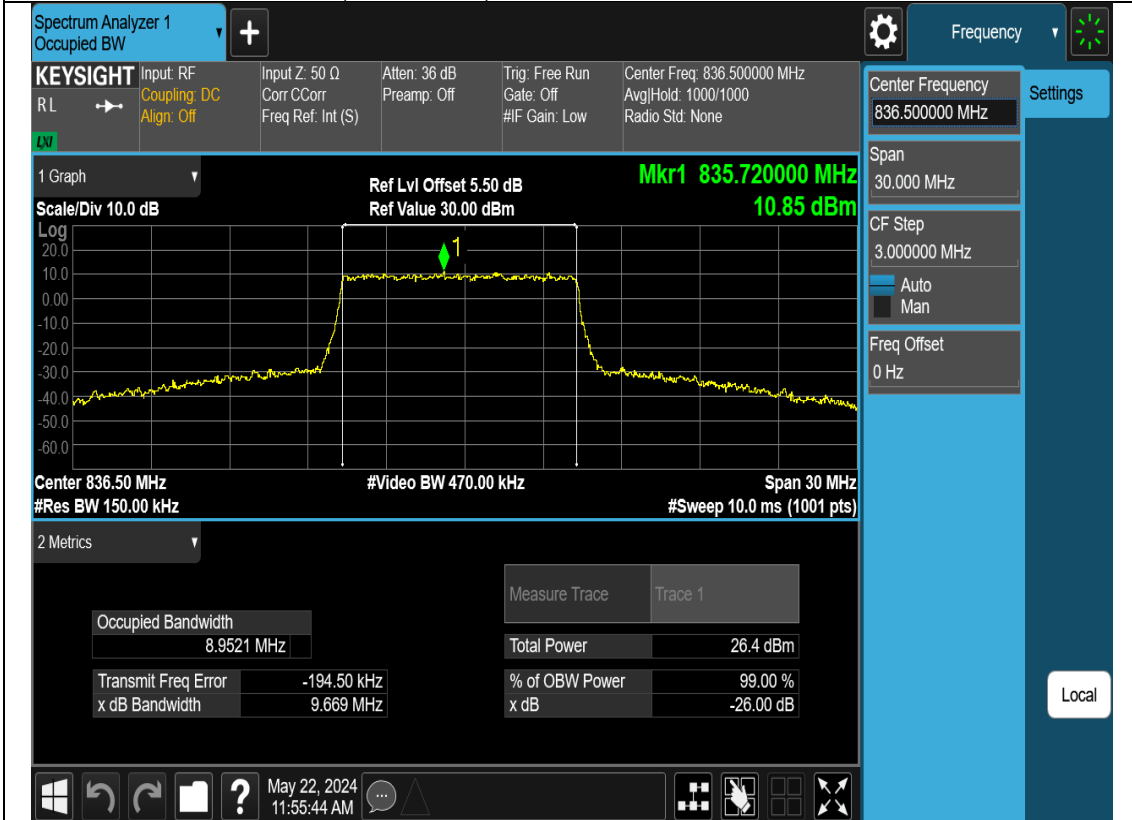
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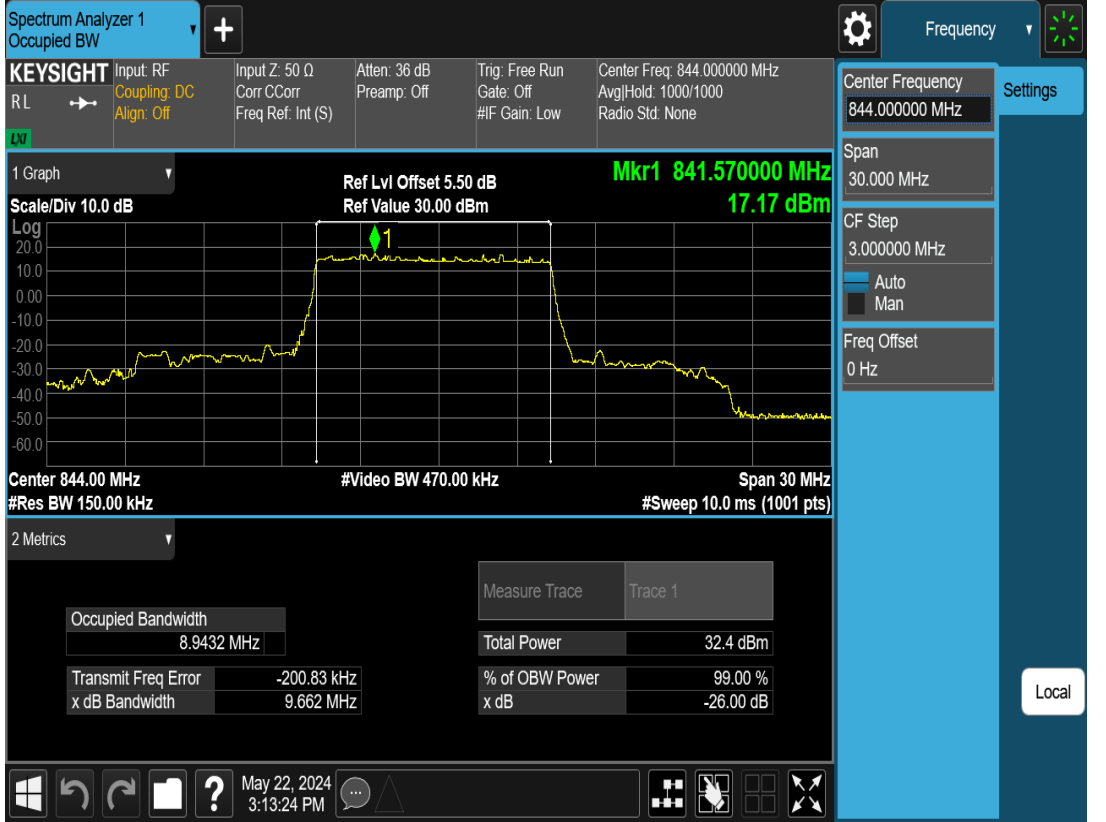
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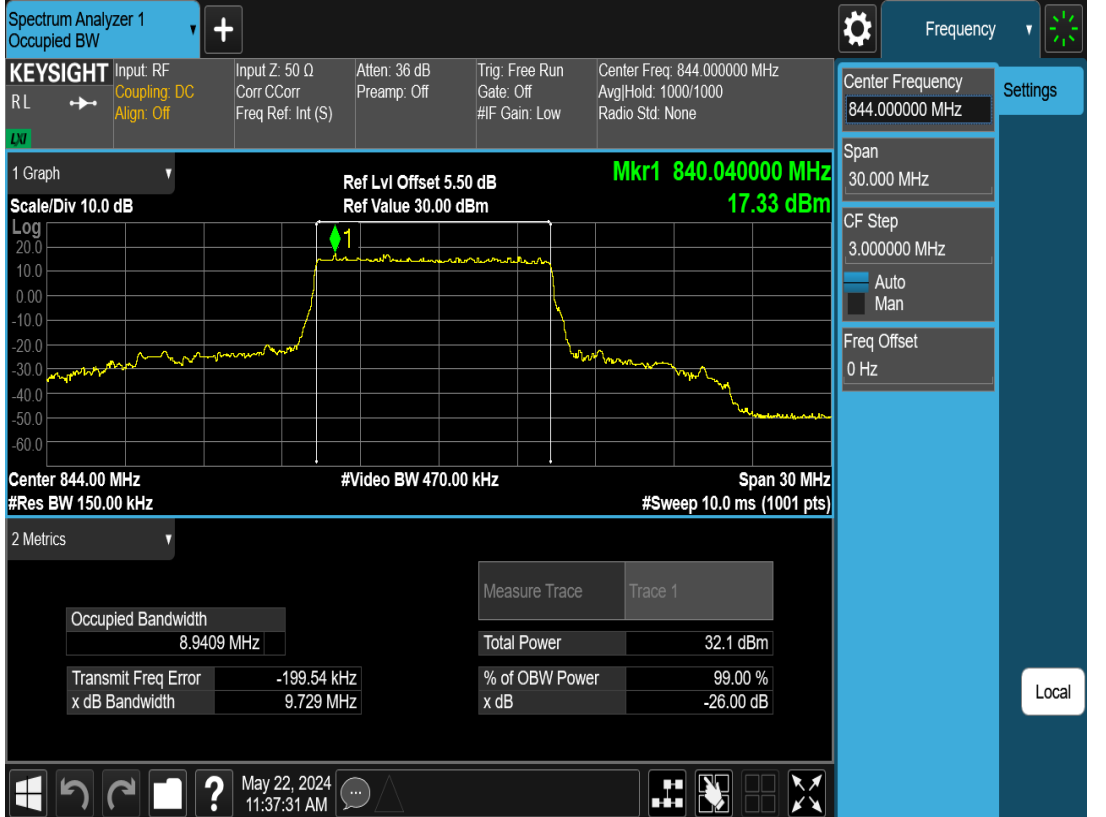
N26b(824-849MHz)-10M-OBW-M-CP-OFDM-256QAM



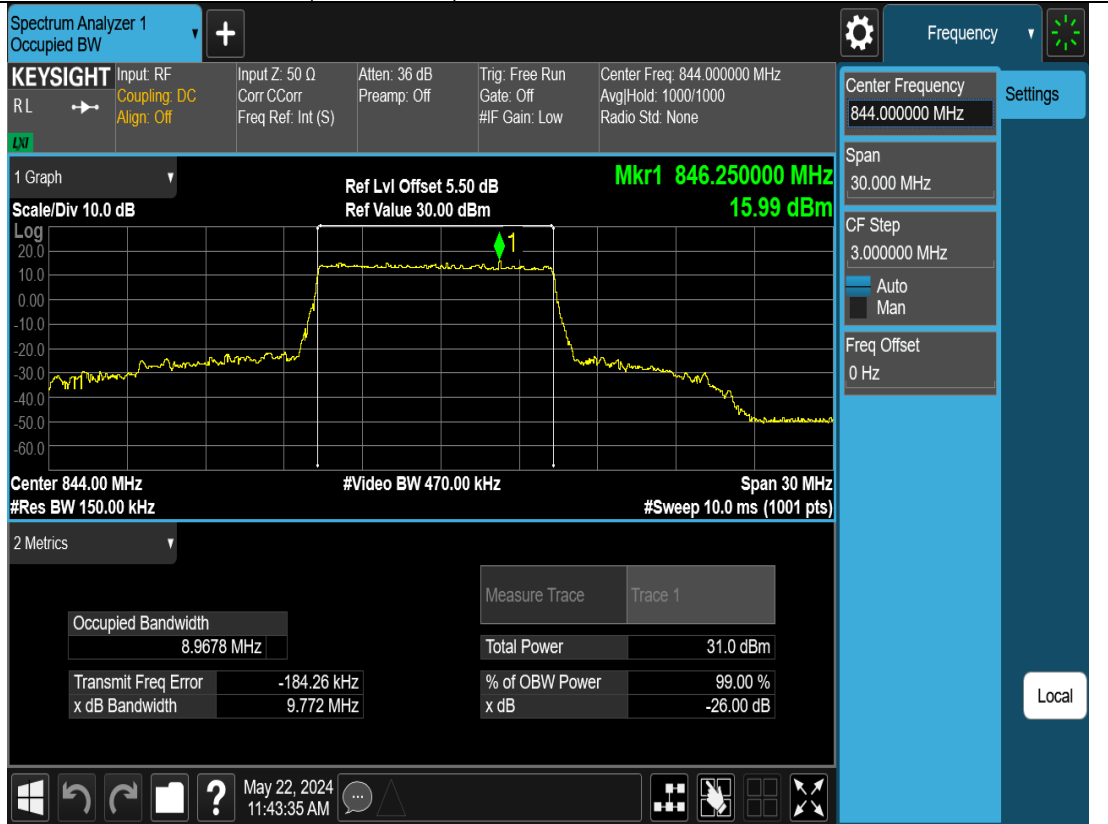
N26b(824-849MHz)-10M-OBW-H-DFT-s-OFDM-Pi2 BPSK



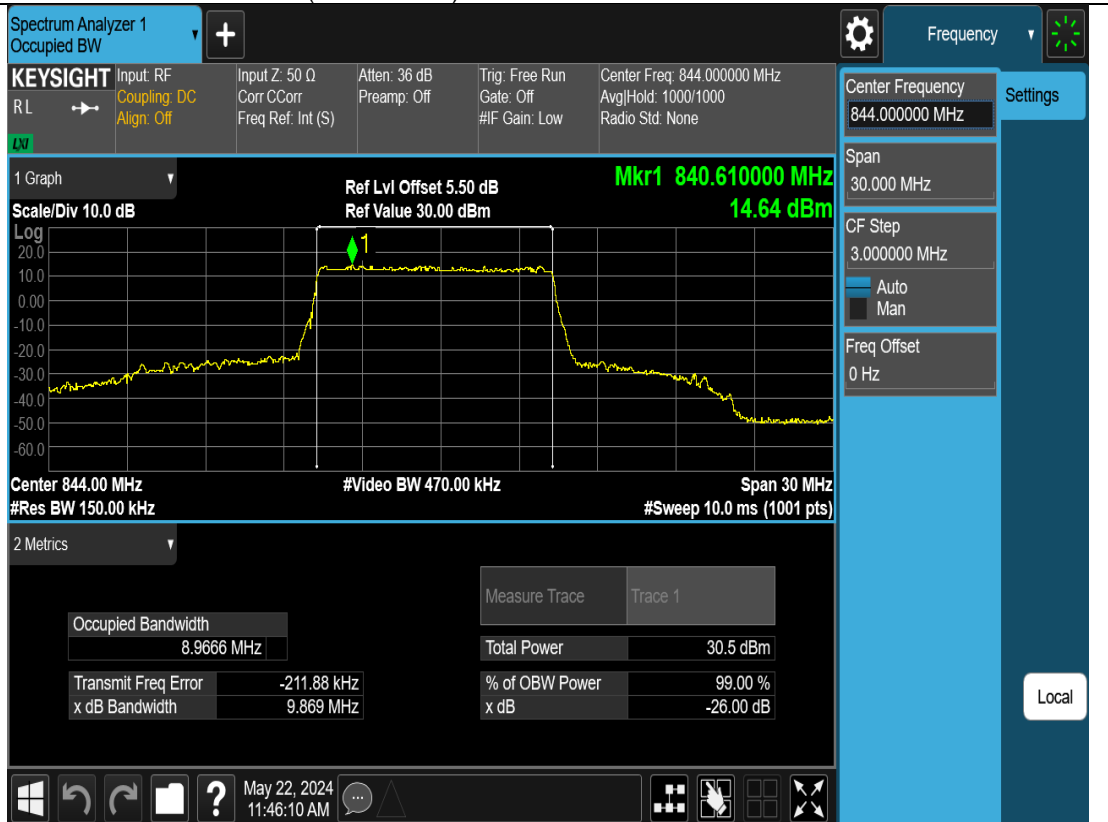
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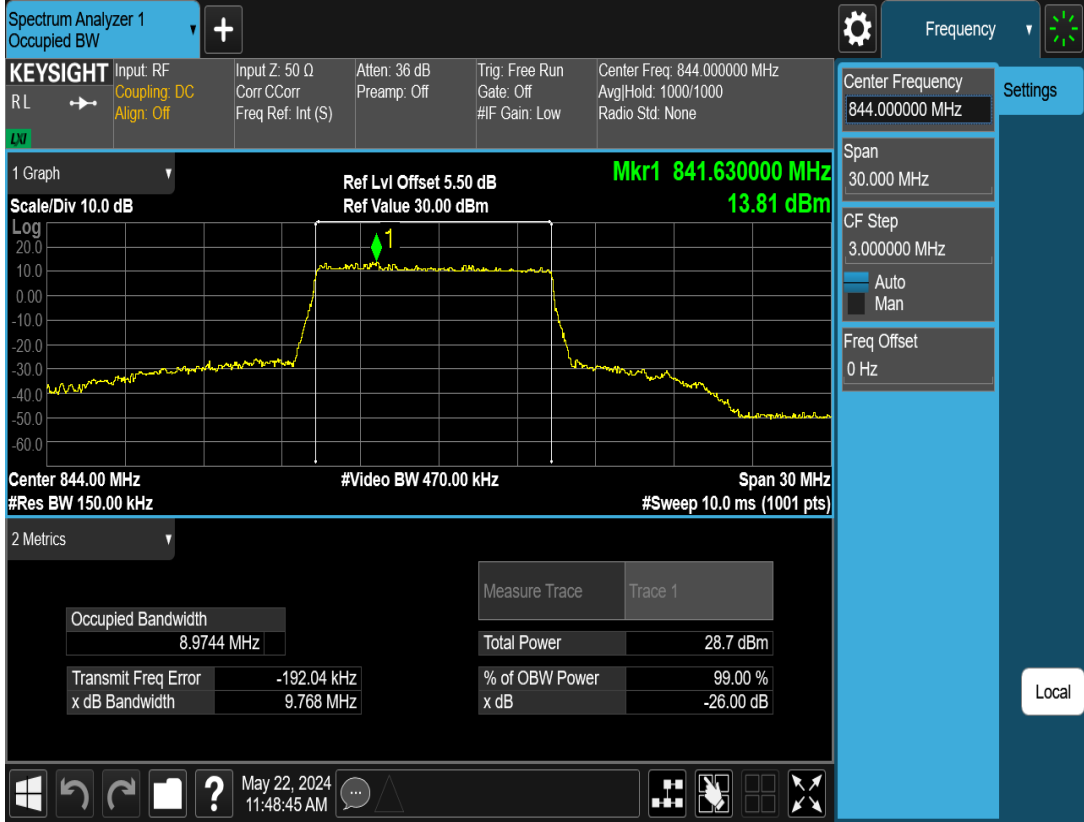
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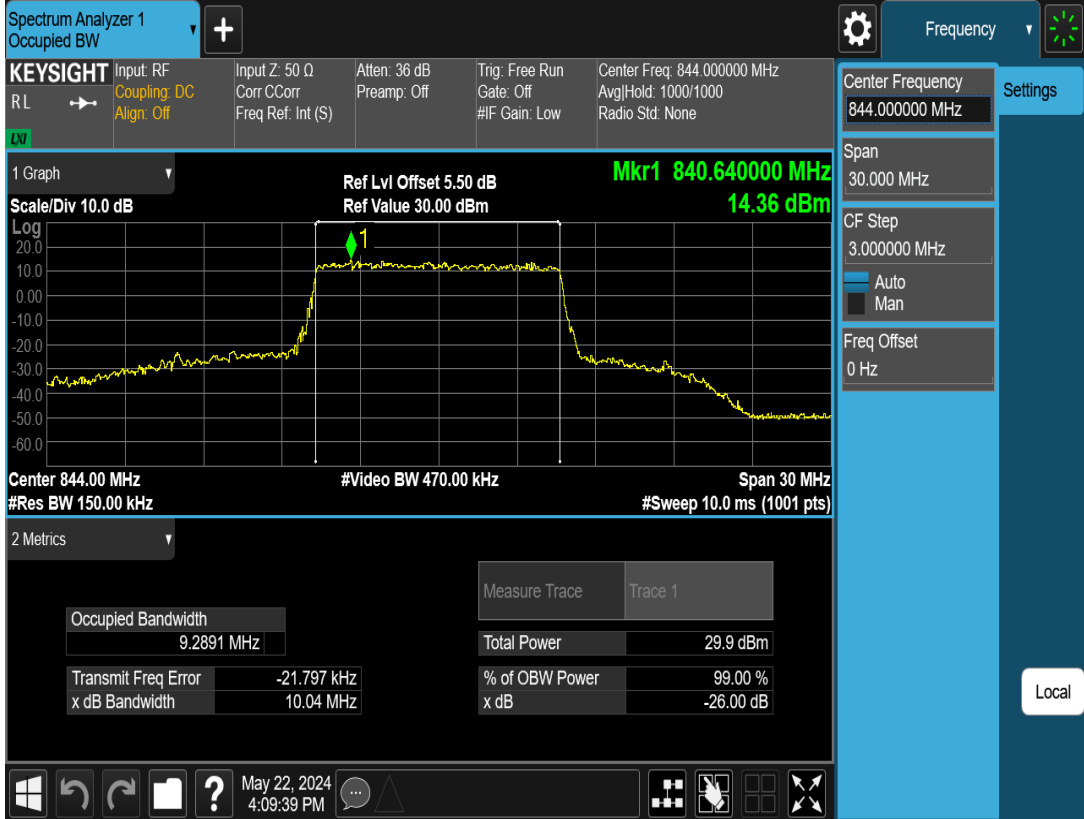
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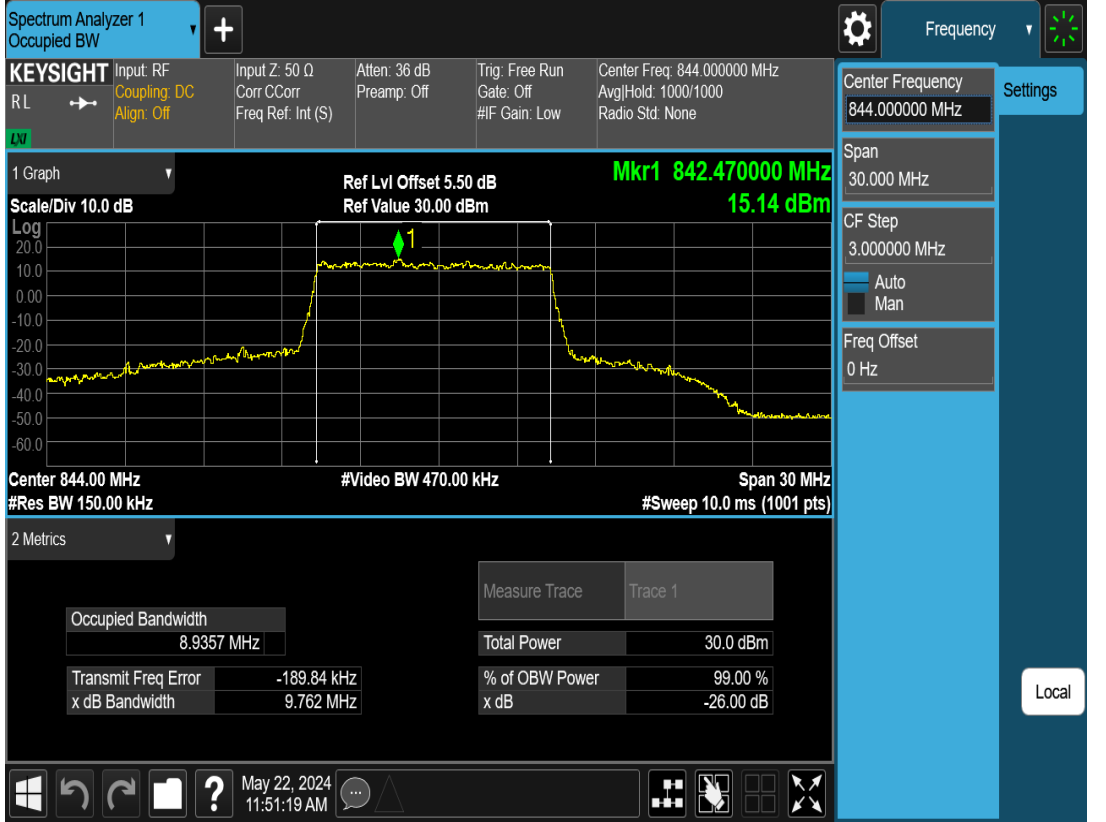
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N26b(824-849MHz)-10M-OBW-H-CP-OFDM-QPSK



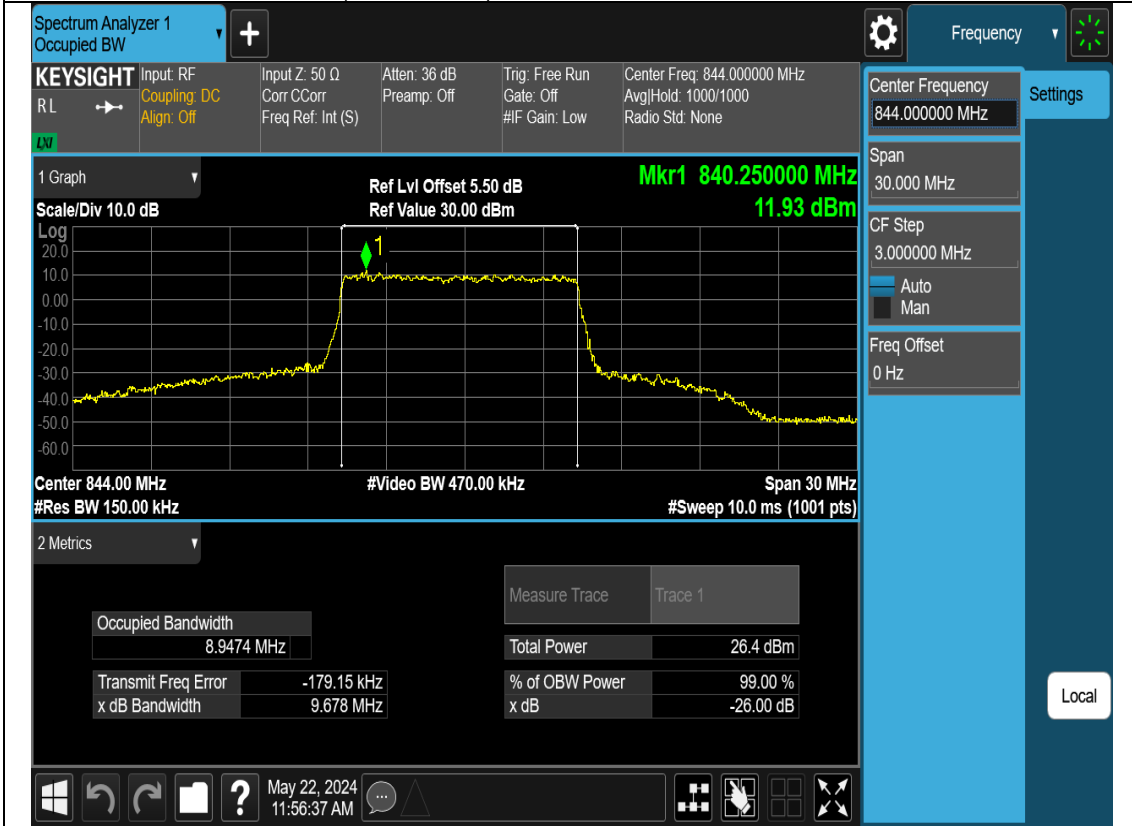
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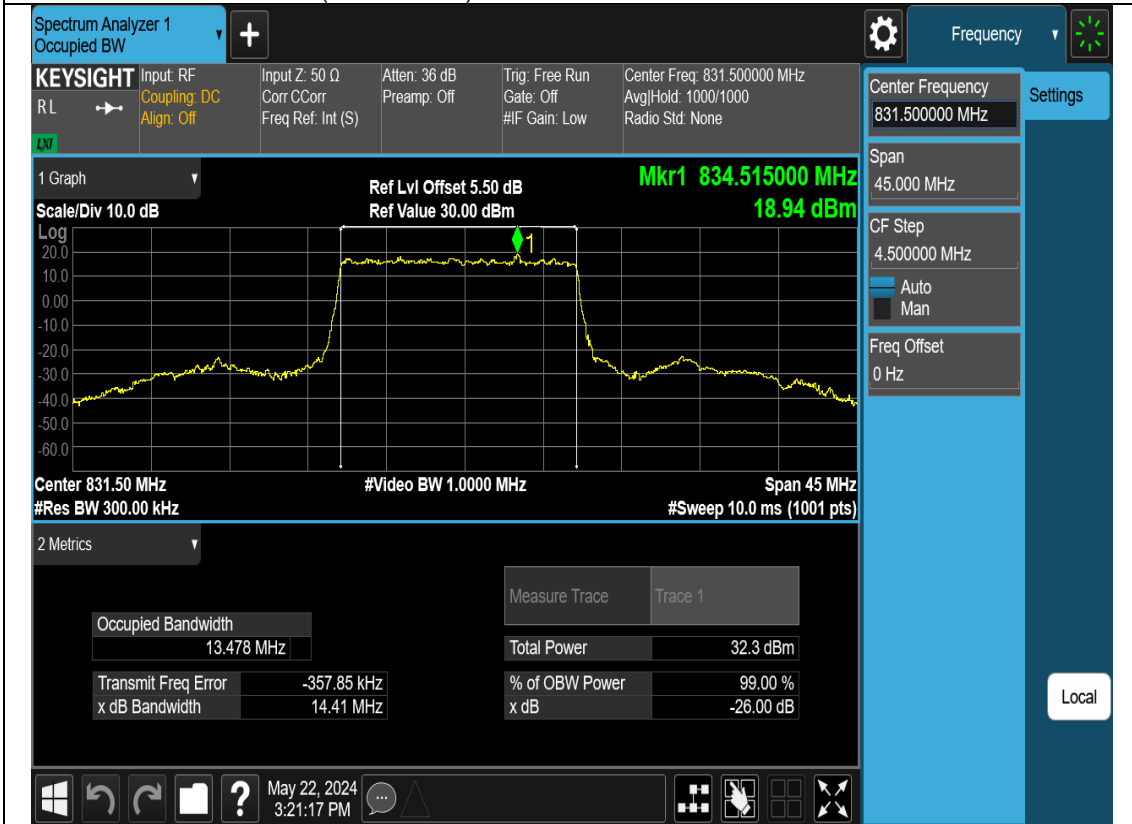
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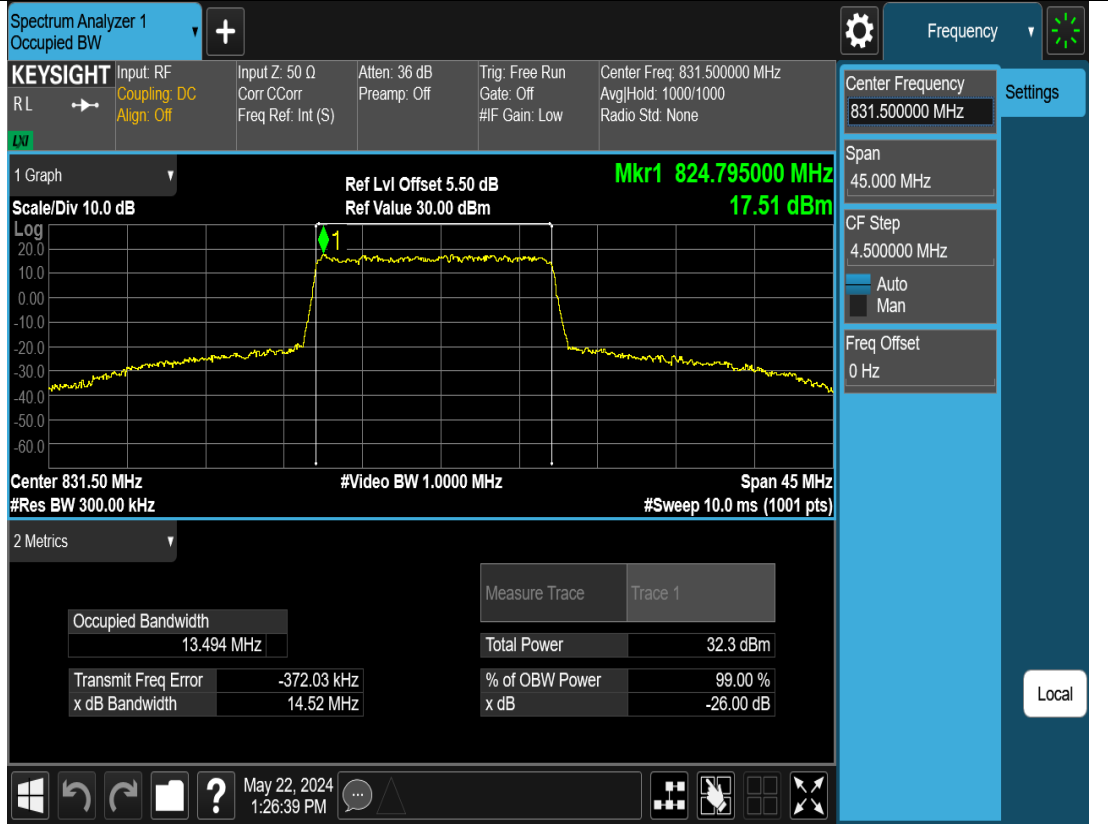
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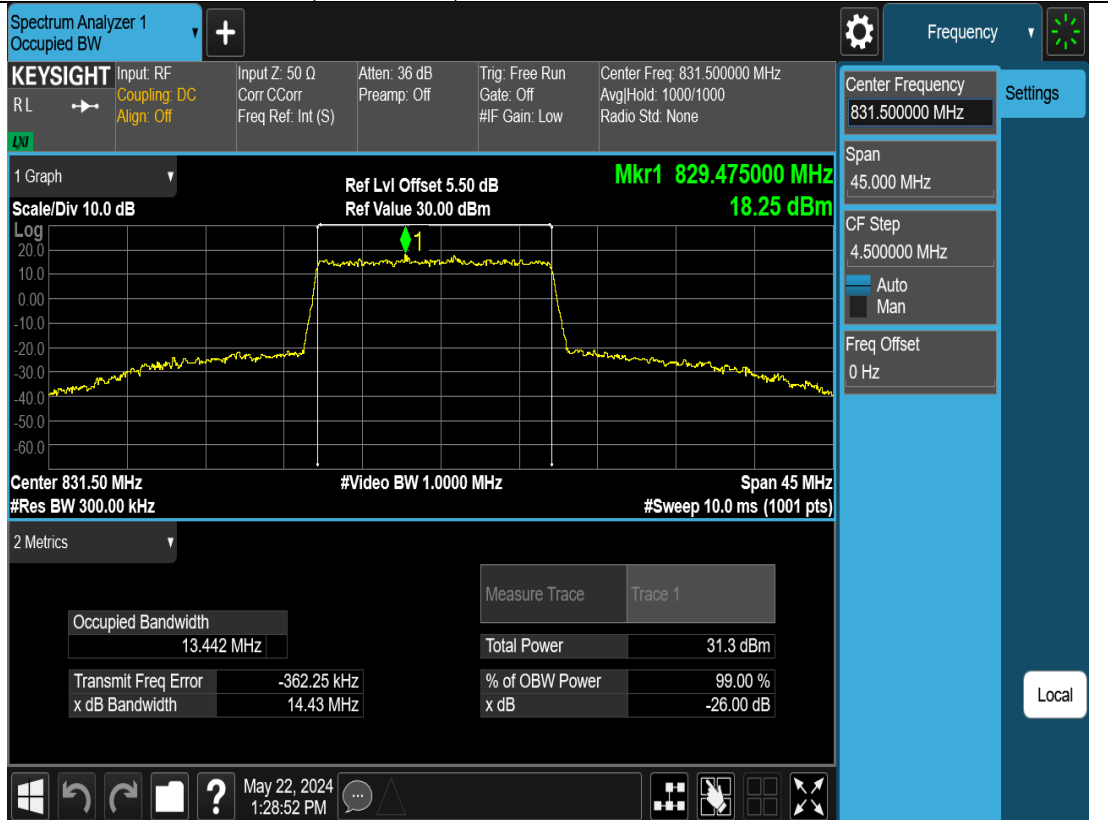
N26b(824-849MHz)-15M-OBW-L-DFT-s-OFDM-Pi2 BPSK



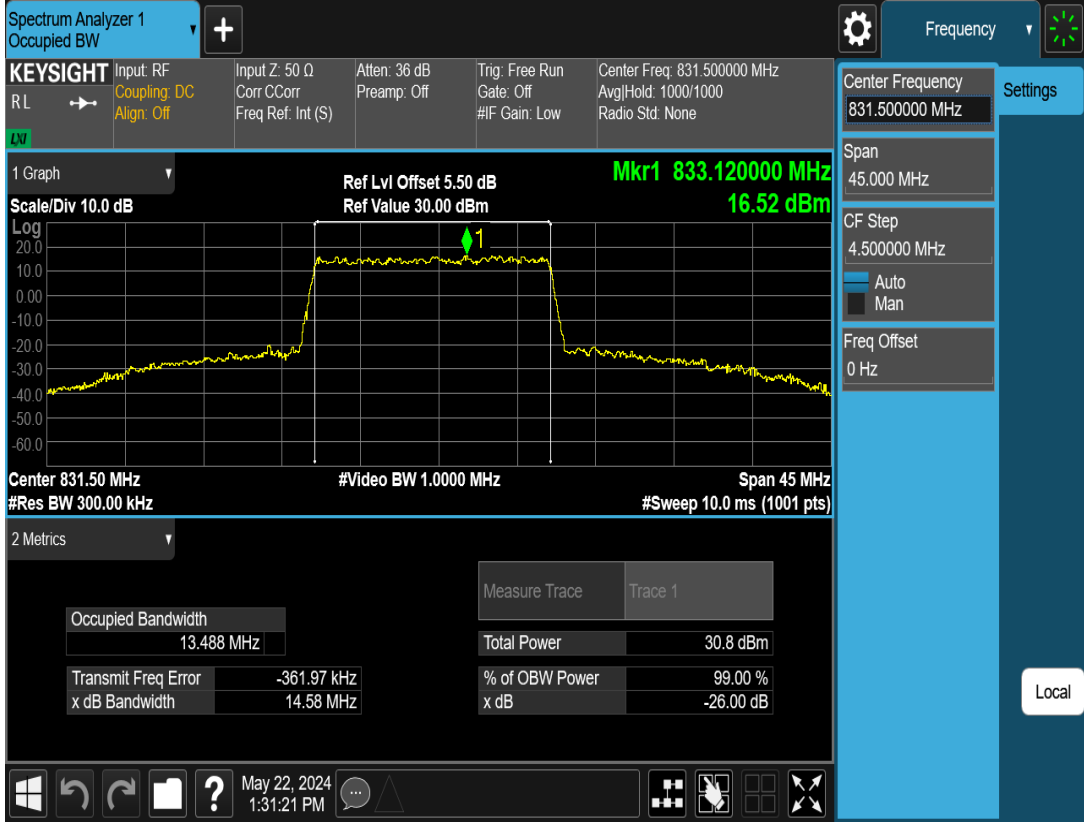
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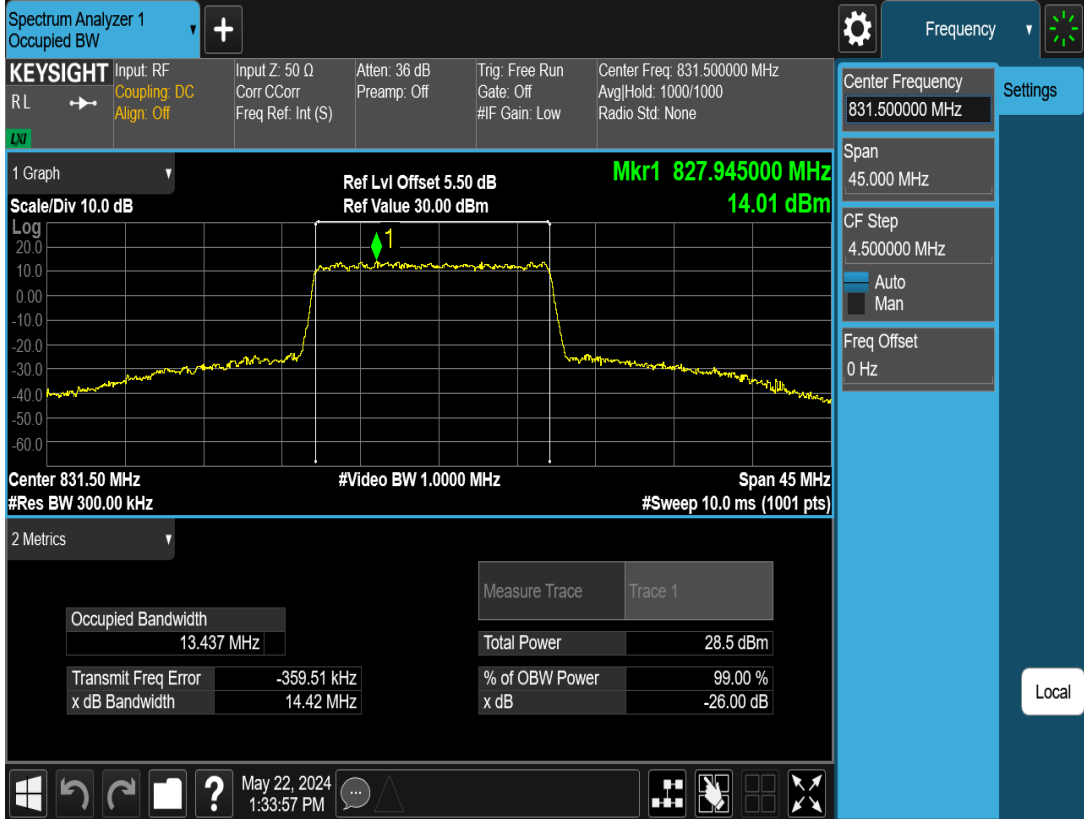
N26b(824-849MHz)-15M-OBW-L-DFT-s-OFDM-16QAM



N26b(824-849MHz)-15M-OBW-L-DFT-s-OFDM-64QAM



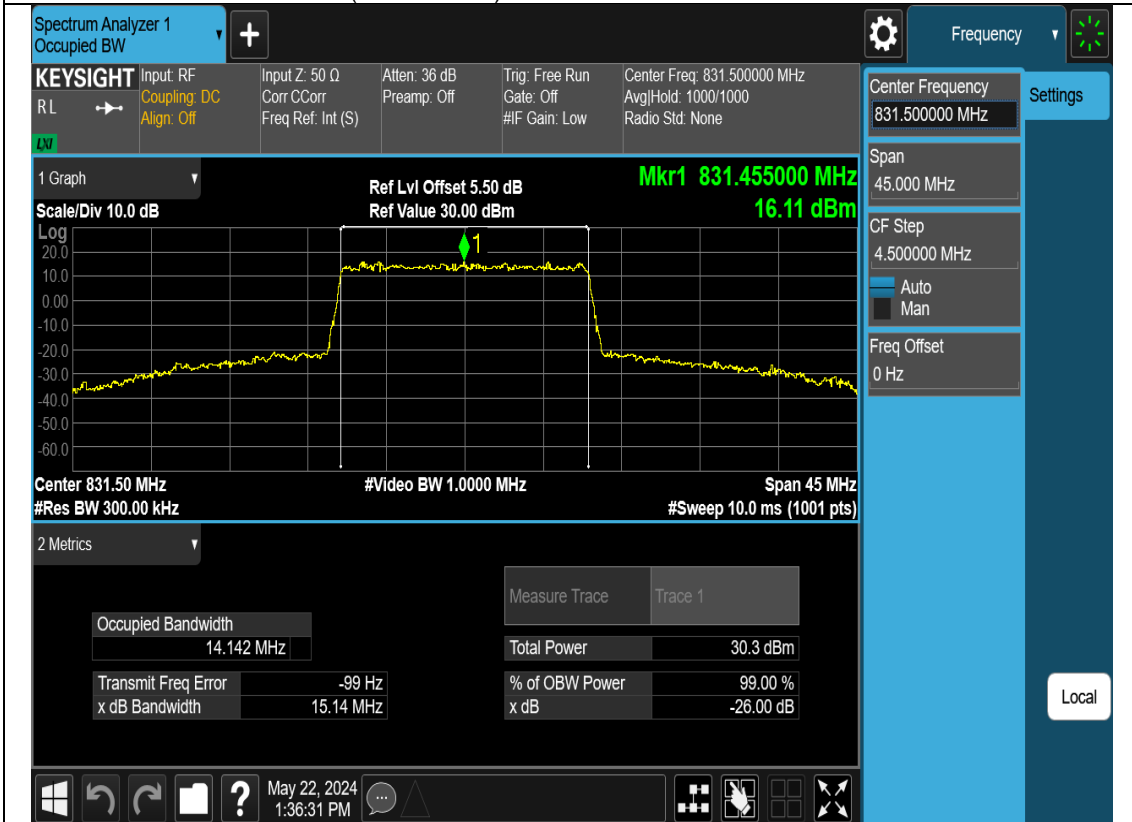
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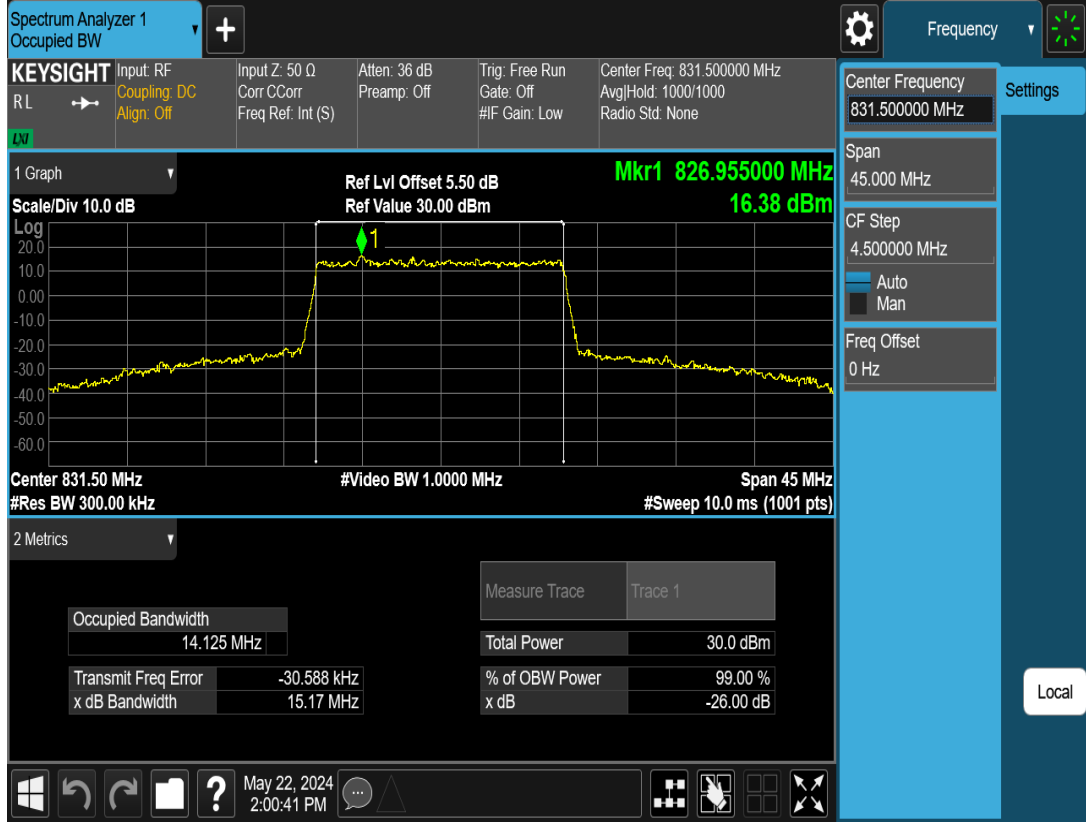
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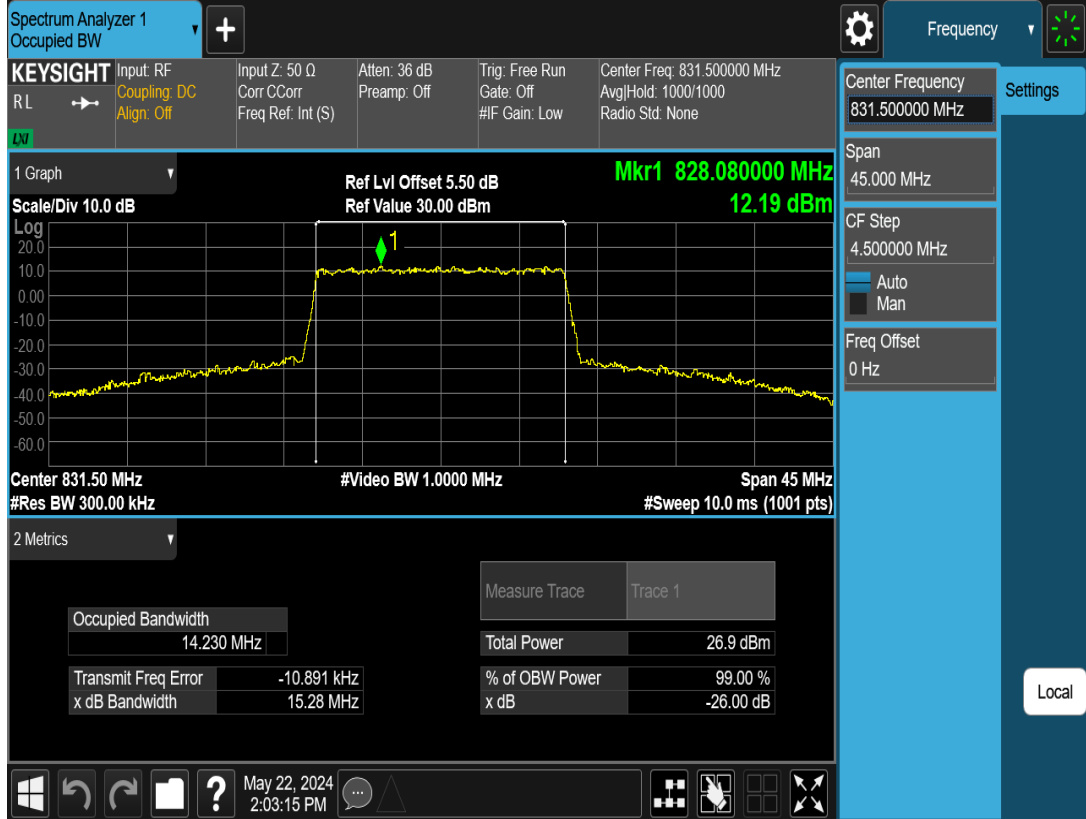
N26b(824-849MHz)-15M-OBW-L-CP-OFDM-16QAM



N26b(824-849MHz)-15M-OBW-L-CP-OFDM-64QAM



N26b(824-849MHz)-15M-OBW-L-CP-OFDM-256QAM



N26b(824-849MHz)-15M-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: 836.500000 MHz
 RL Coupling: DC Corr CCorr Freq Ref: Int (S) Preamp: Off Gate: Off Avg/Hold: 1000/1000
 Align: Off Radio Std: None

1 Graph Scale/Div 10.0 dB Ref Lvl Offset 5.50 dB Mkr1 832.765000 MHz
 Ref Value 30.00 dBm 19.22 dBm

Center 836.50 MHz #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	13.495 MHz	Total Power	32.5 dBm
Transmit Freq Error	-371.75 kHz	% of OBW Power	99.00 %
x dB Bandwidth	14.58 MHz	x dB	-26.00 dB

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N26b(824-849MHz)-15M-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: 836.500000 MHz
 RL Coupling: DC Corr CCorr Freq Ref: Int (S) Preamp: Off Gate: Off Avg/Hold: 1000/1000
 Align: Off Radio Std: None

1 Graph Scale/Div 10.0 dB Ref Lvl Offset 5.50 dB Mkr1 832.090000 MHz
 Ref Value 30.00 dBm 17.99 dBm

Center 836.50 MHz #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	13.464 MHz	Total Power	32.1 dBm
Transmit Freq Error	-363.31 kHz	% of OBW Power	99.00 %
x dB Bandwidth	14.55 MHz	x dB	-26.00 dB

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