

N38-20M-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: 2.595000000 GHz
Avg/Hold: 1000/1000
Radio Std: None

Center Frequency: 2.595000000 GHz

Span: 60.000 MHz

CF Step: 6.000000 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 2.589780000 GHz
16.77 dBm

Center 2.59500 GHz
#Res BW 300.00 kHz
#Video BW 1.0000 MHz
Span 60 MHz
#Sweep 10.0 ms (1001 pts)

2 Metrics

Measure Trace		Trace 1	
Occupied Bandwidth	17.936 MHz	Total Power	31.7 dBm
Transmit Freq Error	-226.25 kHz	% of OBW Power	99.00 %
x dB Bandwidth	19.63 MHz	x dB	-26.00 dB

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N38-20M-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: 2.595000000 GHz
Avg/Hold: 1000/1000
Radio Std: None

Center Frequency: 2.595000000 GHz

Span: 60.000 MHz

CF Step: 6.000000 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 2.590200000 GHz
16.90 dBm

Center 2.59500 GHz
#Res BW 300.00 kHz
#Video BW 1.0000 MHz
Span 60 MHz
#Sweep 10.0 ms (1001 pts)

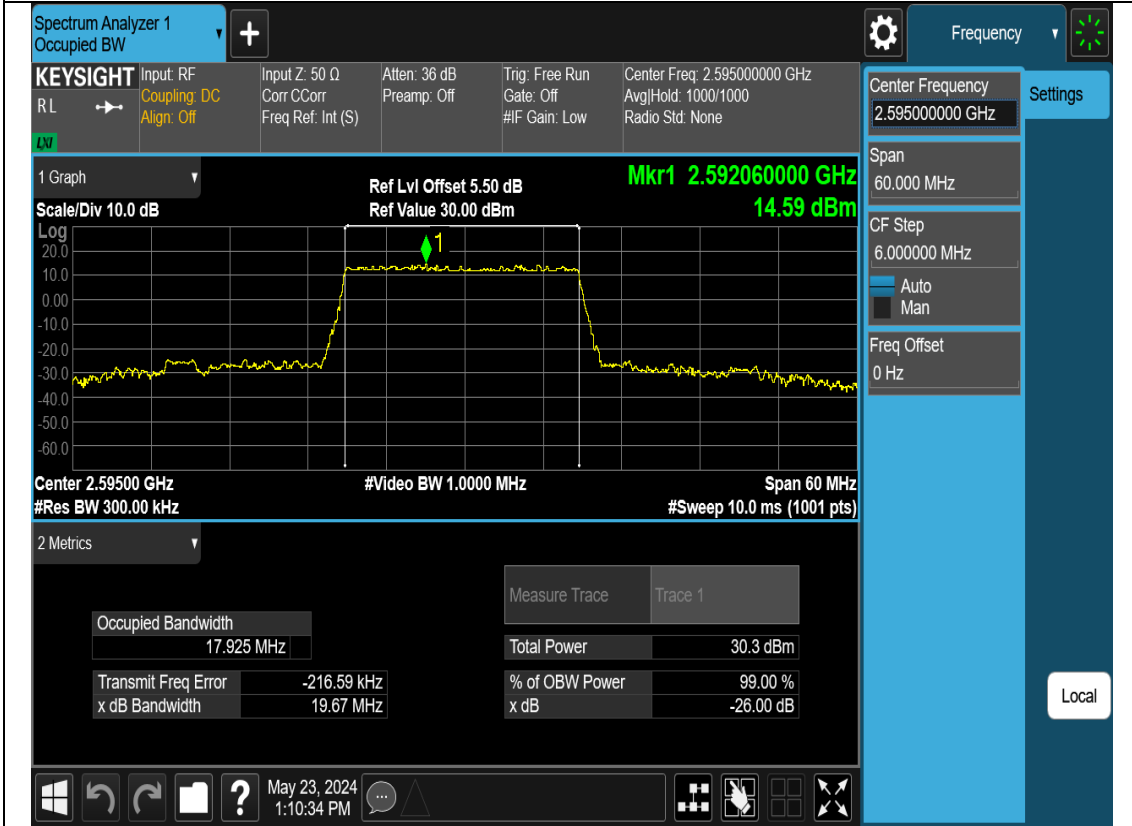
2 Metrics

Measure Trace		Trace 1	
Occupied Bandwidth	17.911 MHz	Total Power	31.2 dBm
Transmit Freq Error	-200.25 kHz	% of OBW Power	99.00 %
x dB Bandwidth	19.43 MHz	x dB	-26.00 dB

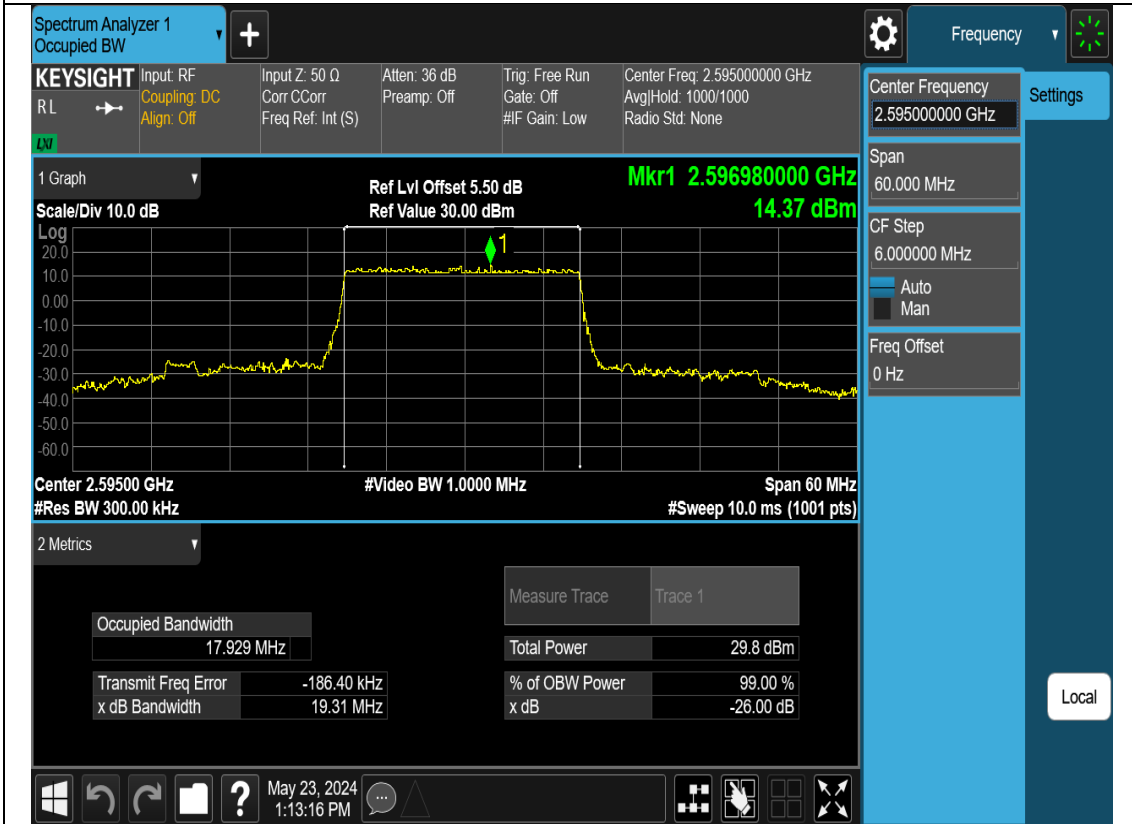
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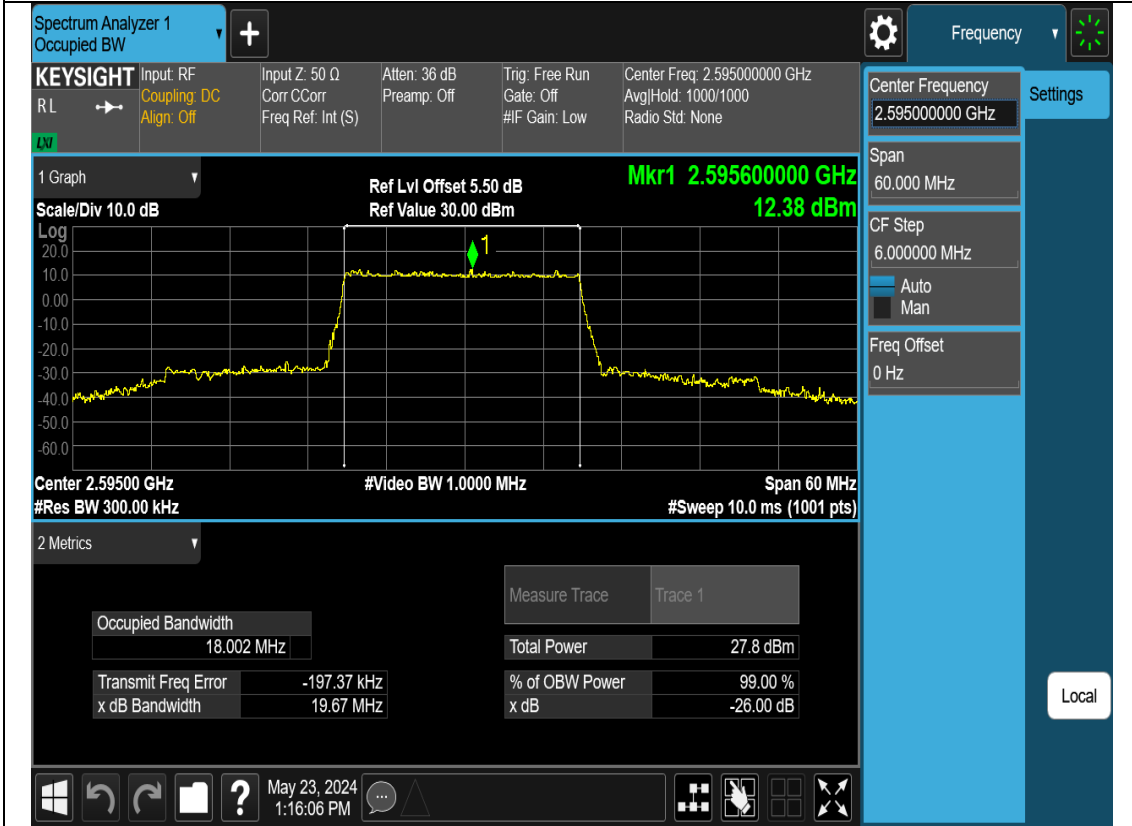
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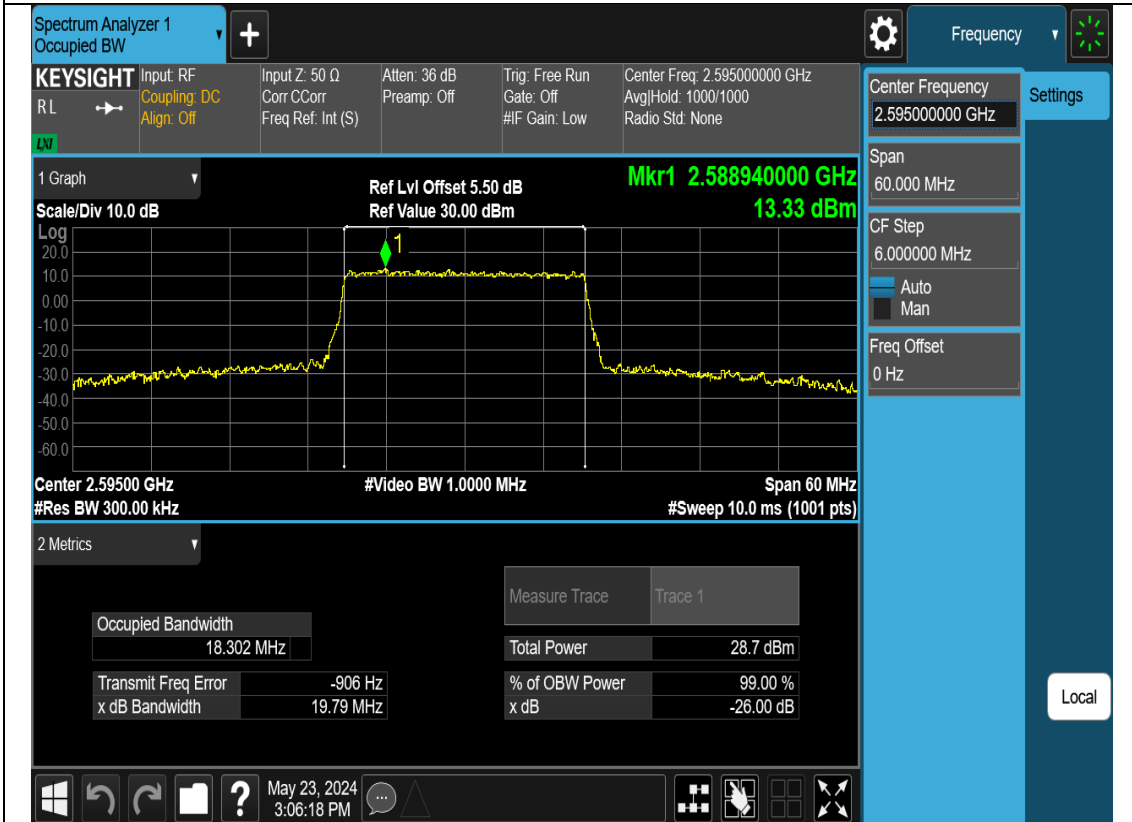
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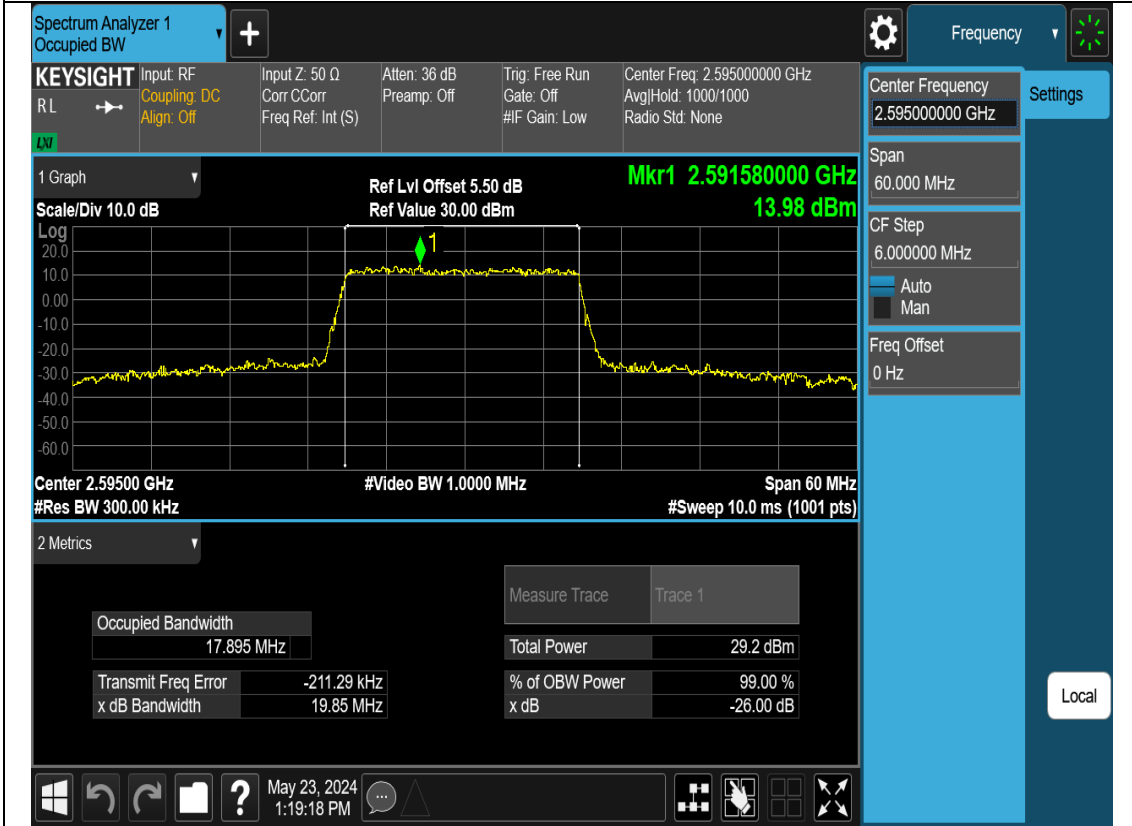
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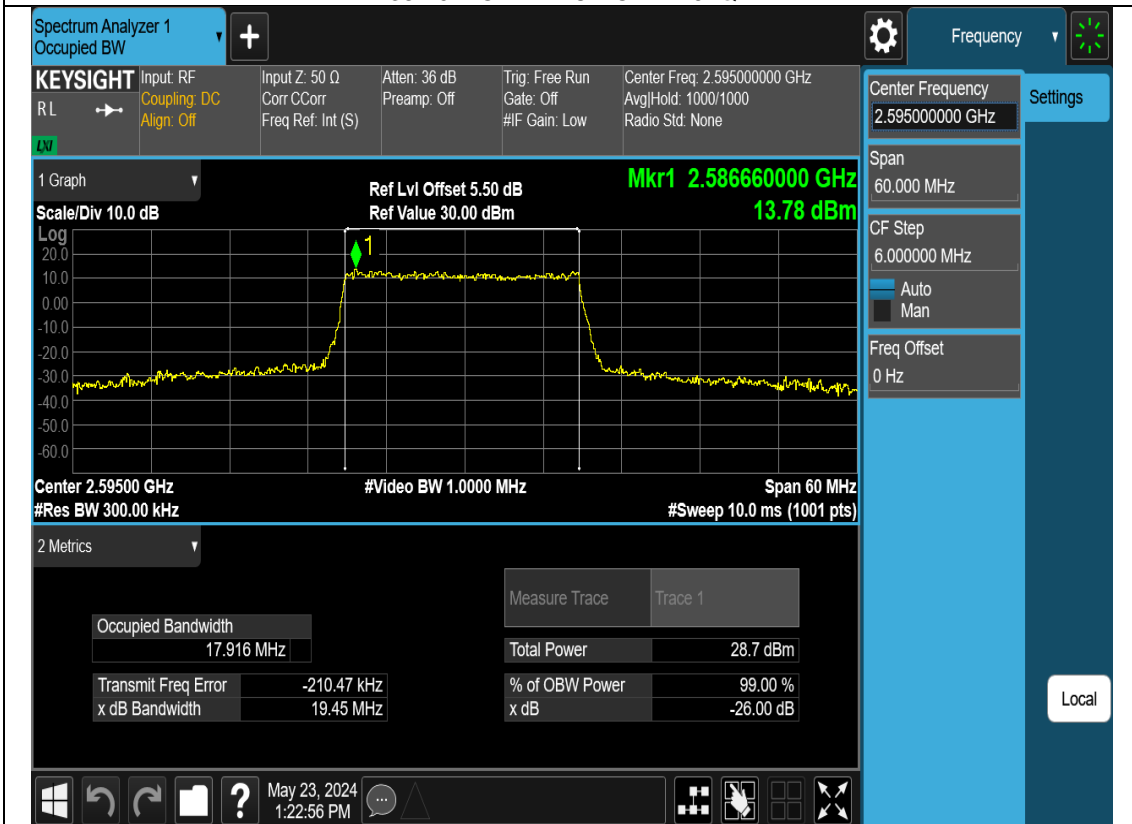
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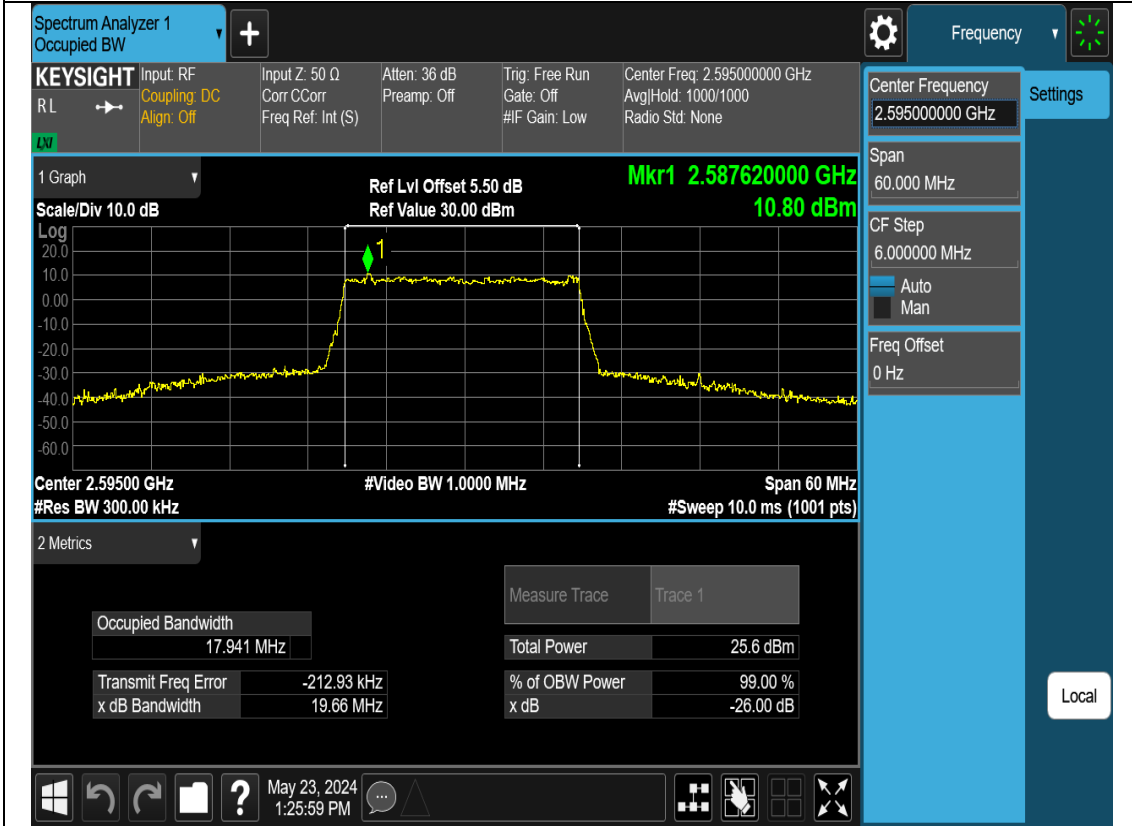
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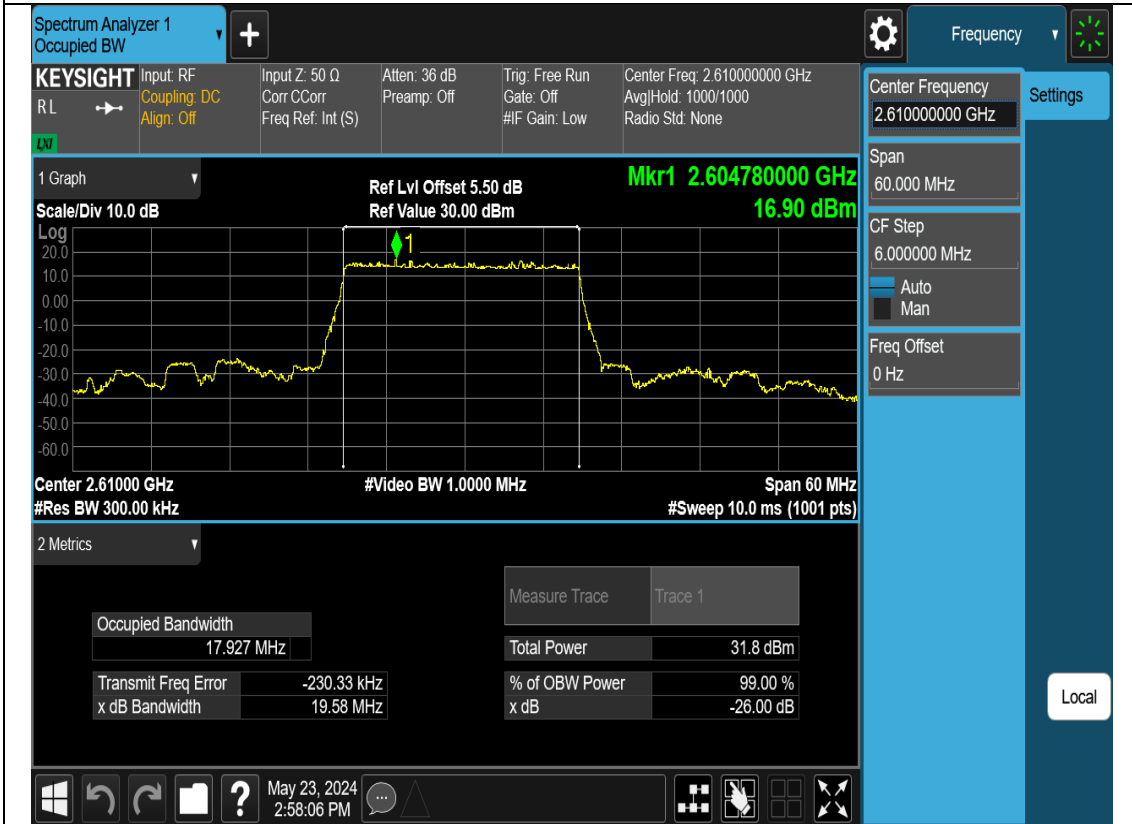
N38-20M-OBW-M-CP-OFDM-64QAM



N38-20M-OBW-M-CP-OFDM-256QAM



N38-20M-OBW-H-DFT-s-OFDM-Pi2 BPSK



N38-20M-OBW-H-DFT-s-OFDM-QPSK

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input RF
RL ➔ Coupling: DC
Align: Off

Input Z: 50 Ω Atten: 36 dB Trig: Free Run
Corr: CCorr Preamp: Off Gate: Off
Freq Ref: Int (S) #F Gain: Low

Center Freq: 2.610000000 GHz
Avg/Hold: 1000/1000
Radio Std: None

Frequency

Center Frequency
2.610000000 GHz

Span
60.000 MHz

CF Step
6.000000 MHz

Auto
Man

Freq Offset
0 Hz

Settings

1 Graph

Scale/Div 10.0 dB

Log

Ref Lvl Offset 5.50 dB
Ref Value 30.00 dBm

Mkr1 2.605200000 GHz
17.01 dBm

Center 2.61000 GHz #Video BW 1.0000 MHz Span 60 MHz
#Res BW 300.00 kHz #Sweep 10.0 ms (1001 pts)

2 Metrics

Measure Trace		Trace 1	
Occupied Bandwidth	17.936 MHz	Total Power	31.3 dBm
Transmit Freq Error	-185.60 kHz	% of OBW Power	99.00 %
x dB Bandwidth	19.45 MHz	x dB	-26.00 dB

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N38-20M-OBW-H-DFT-s-OFDM-16QAM

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input RF
RL ➔ Coupling: DC
Align: Off

Input Z: 50 Ω Atten: 36 dB Trig: Free Run
Corr: CCorr Preamp: Off Gate: Off
Freq Ref: Int (S) #F Gain: Low

Center Freq: 2.610000000 GHz
Avg/Hold: 1000/1000
Radio Std: None

Frequency

Center Frequency
2.610000000 GHz

Span
60.000 MHz

CF Step
6.000000 MHz

Auto
Man

Freq Offset
0 Hz

Settings

1 Graph

Scale/Div 10.0 dB

Log

Ref Lvl Offset 5.50 dB
Ref Value 30.00 dBm

Mkr1 2.616840000 GHz
15.00 dBm

Center 2.61000 GHz #Video BW 1.0000 MHz Span 60 MHz
#Res BW 300.00 kHz #Sweep 10.0 ms (1001 pts)

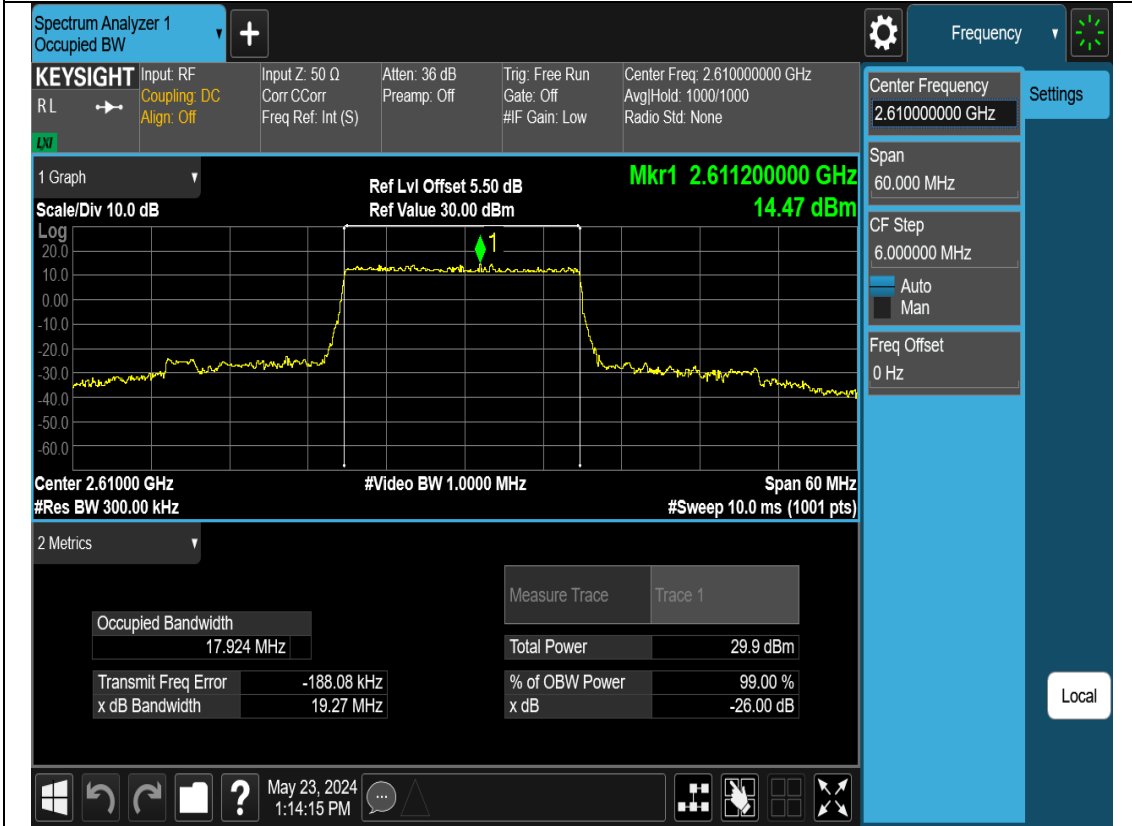
2 Metrics

Measure Trace		Trace 1	
Occupied Bandwidth	17.954 MHz	Total Power	30.3 dBm
Transmit Freq Error	-228.26 kHz	% of OBW Power	99.00 %
x dB Bandwidth	19.60 MHz	x dB	-26.00 dB

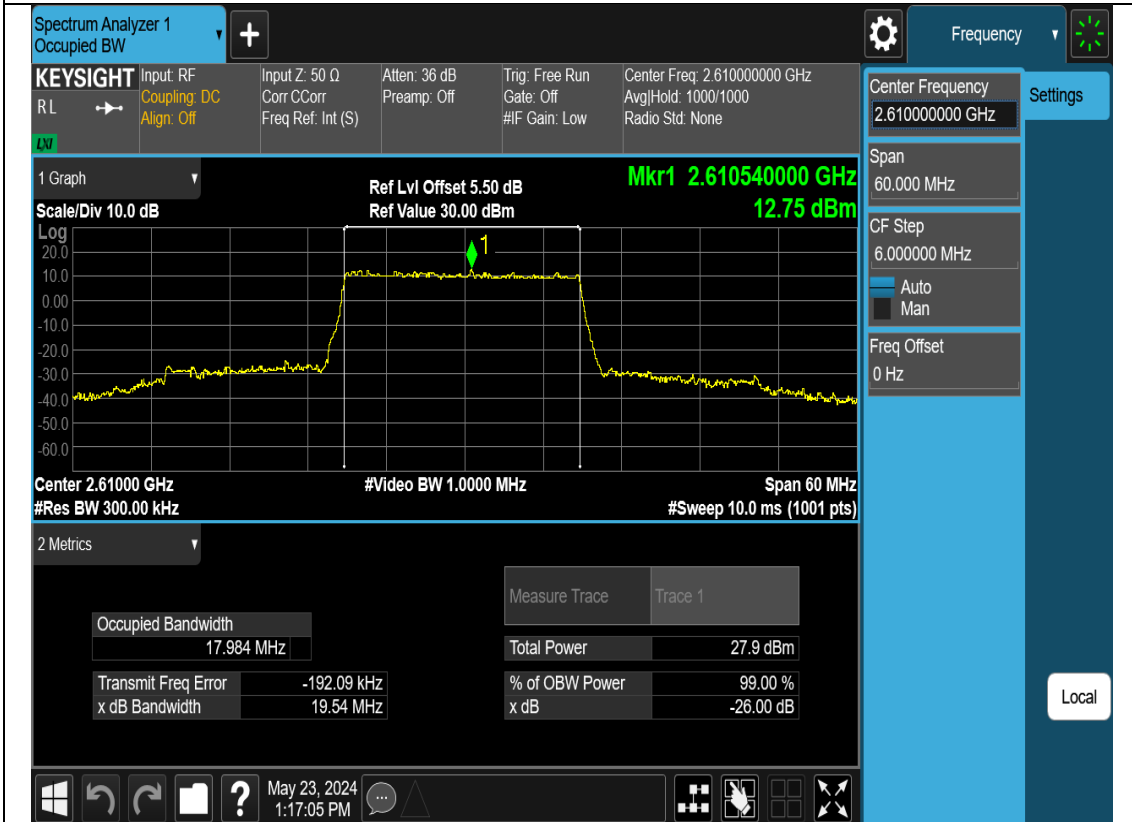
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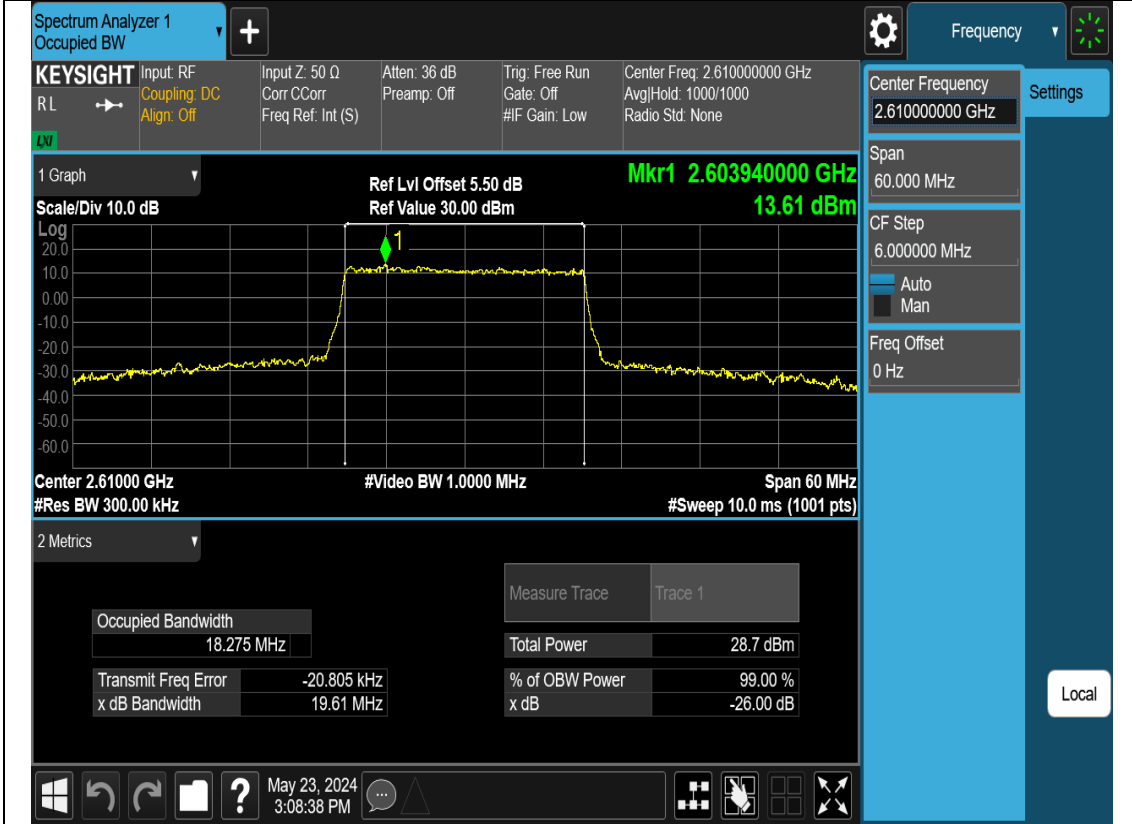
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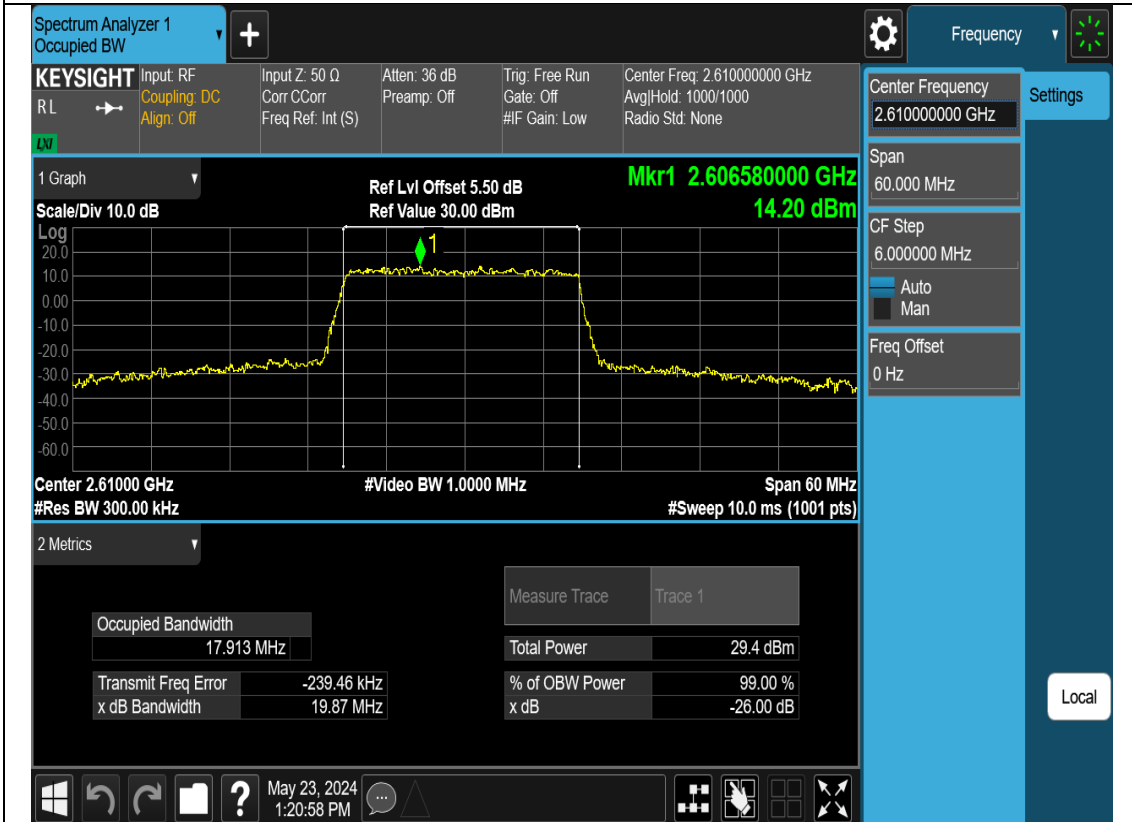
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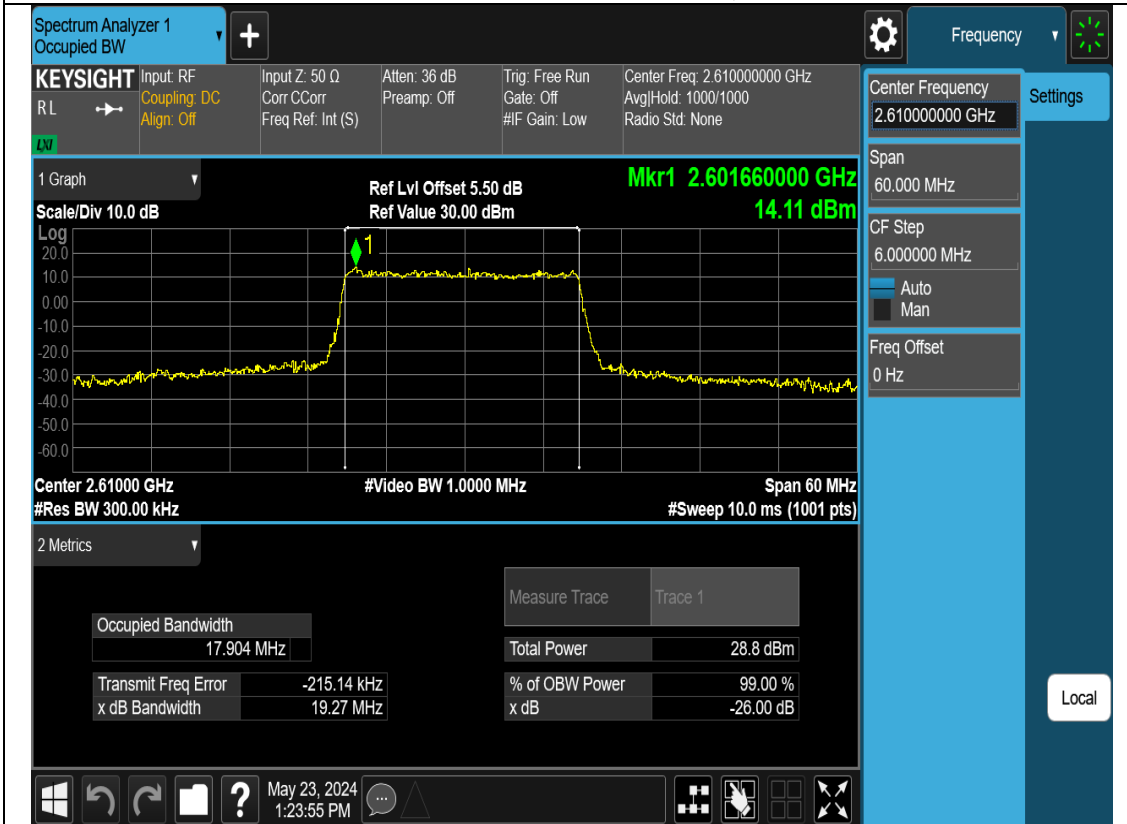
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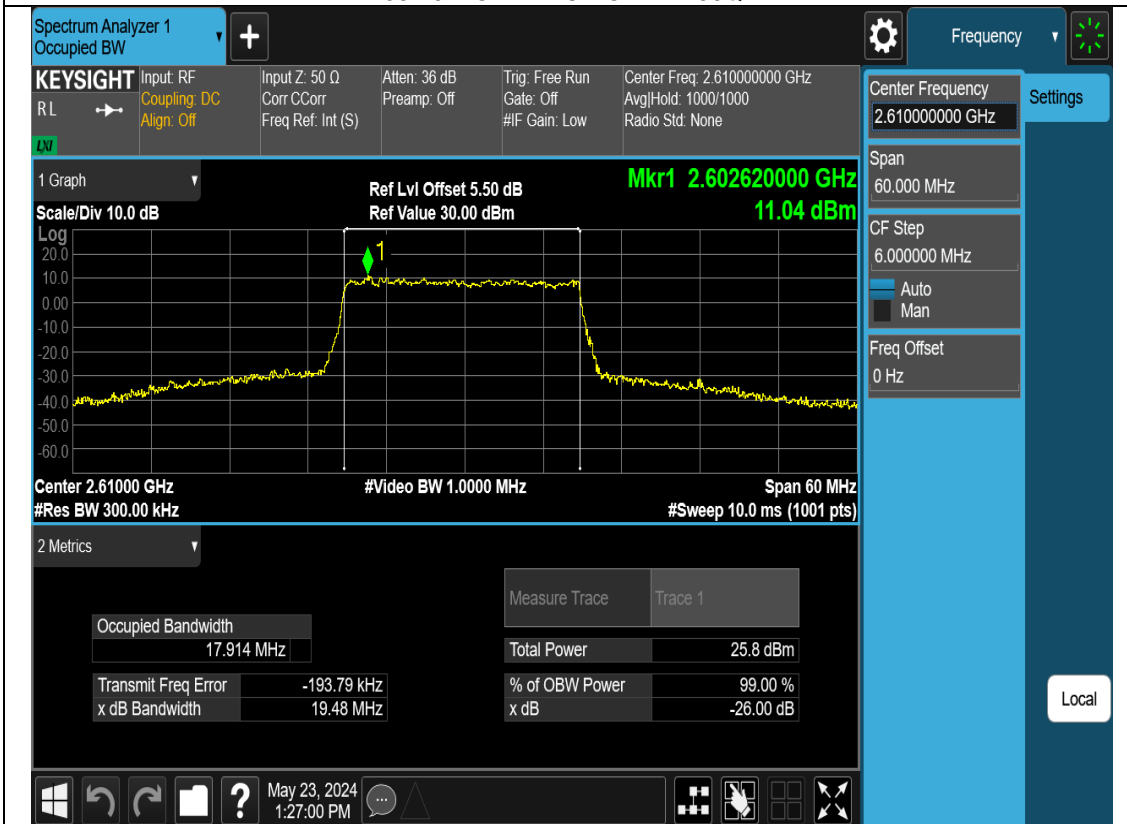
N38-20M-OBW-H-CP-OFDM-16QAM



N38-20M-OBW-H-CP-OFDM-64QAM



N38-20M-OBW-H-CP-OFDM-256QAM



Peak-Average Ratio

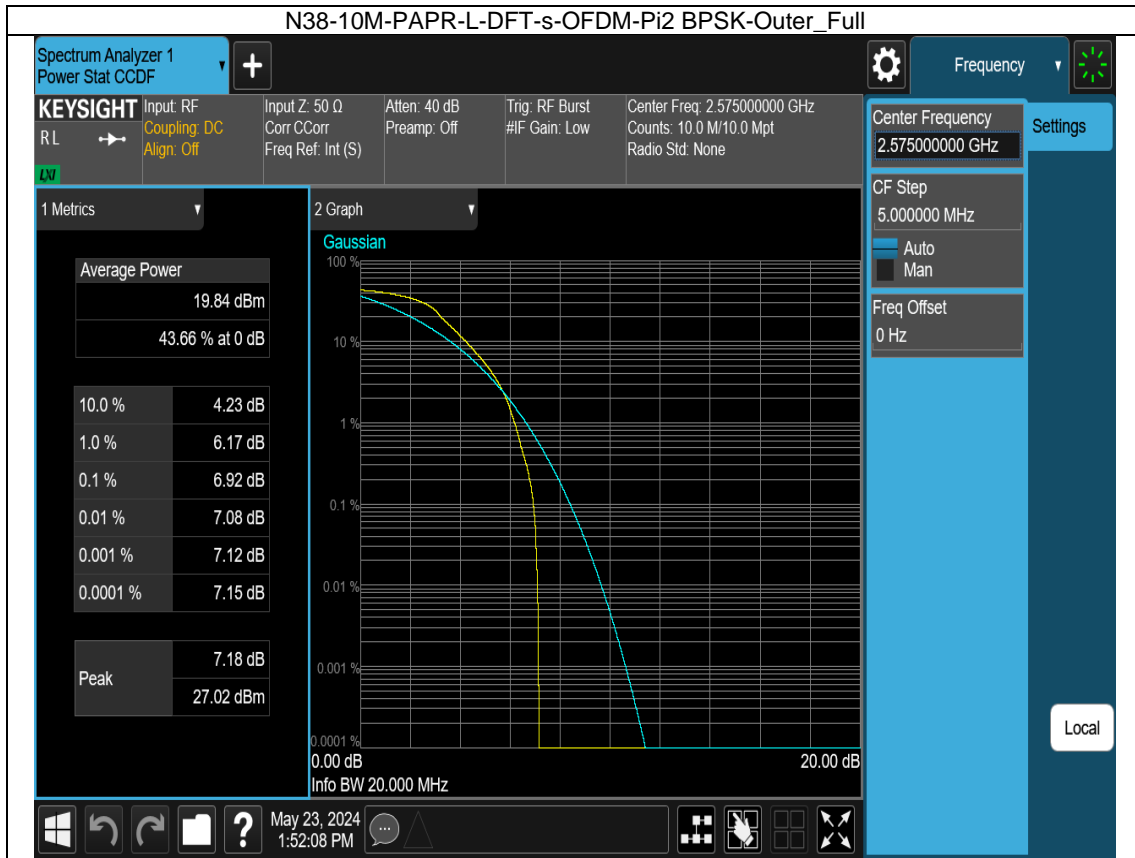
Test Result

5G NR n38 SCS=30kHz 10MHz					
Modulation	CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK	Low CH	Outer_Full	6.92	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	8.28	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	9.04	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	9.02	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	9.02	<=13	Pass
CP-OFDM QPSK		Outer_Full	10.01	<=13	Pass
CP-OFDM 16QAM		Outer_Full	9.99	<=13	Pass
CP-OFDM 64QAM		Outer_Full	10.01	<=13	Pass
CP-OFDM 256QAM		Outer_Full	10.01	<=13	Pass
DFT-s-OFDM PI/2 BPSK		Middle CH	Outer_Full	7.20	<=13
DFT-s-OFDM QPSK	Outer_Full		8.30	<=13	Pass
DFT-s-OFDM 16QAM	Outer_Full		8.95	<=13	Pass
DFT-s-OFDM 64QAM	Outer_Full		8.97	<=13	Pass
DFT-s-OFDM 256QAM	Outer_Full		8.96	<=13	Pass
CP-OFDM QPSK	Outer_Full		10.50	<=13	Pass
CP-OFDM 16QAM	Outer_Full		9.84	<=13	Pass
CP-OFDM 64QAM	Outer_Full		9.83	<=13	Pass
CP-OFDM 256QAM	Outer_Full		9.78	<=13	Pass
DFT-s-OFDM PI/2 BPSK	High CH		Outer_Full	7.15	<=13
DFT-s-OFDM QPSK		Outer_Full	8.39	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	8.97	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	8.97	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	8.97	<=13	Pass
CP-OFDM QPSK		Outer_Full	10.28	<=13	Pass
CP-OFDM 16QAM		Outer_Full	10.31	<=13	Pass
CP-OFDM 64QAM		Outer_Full	10.31	<=13	Pass
CP-OFDM 256QAM		Outer_Full	10.29	<=13	Pass

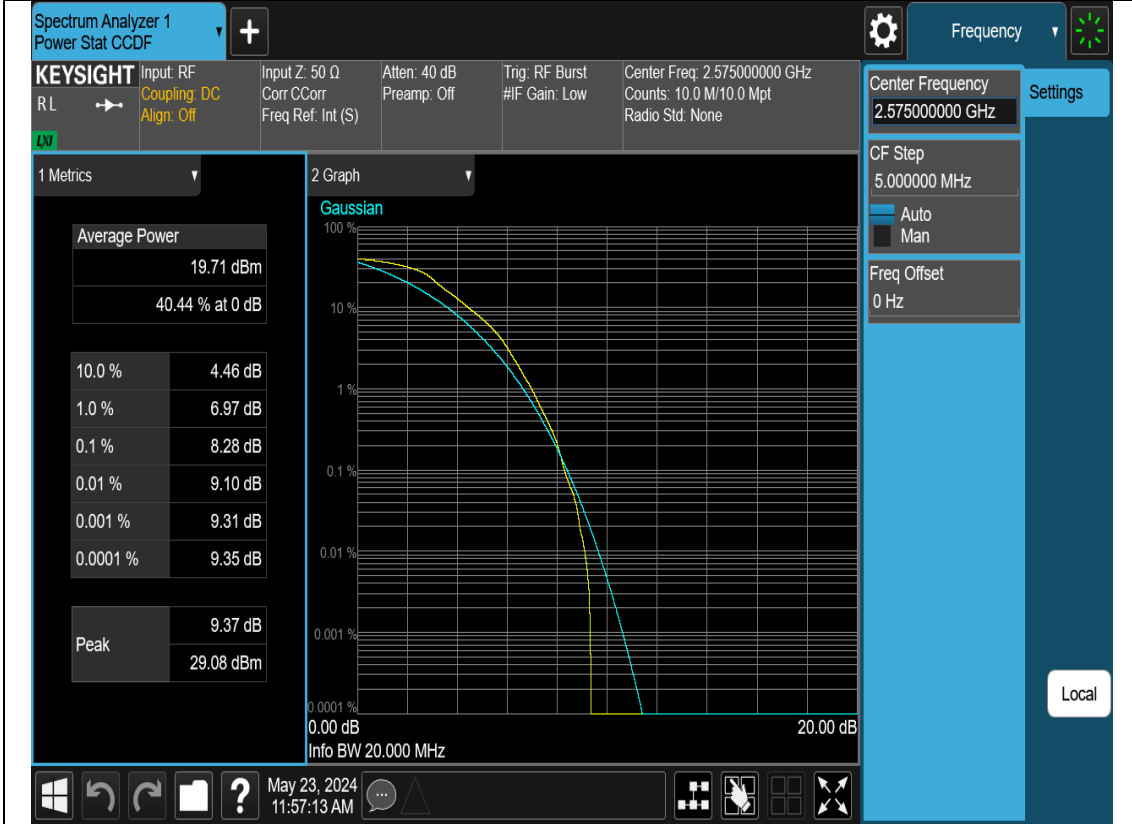
5G NR n38 SCS=30kHz 15MHz					
Modulation	CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK	Low CH	Outer_Full	7.24	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	8.49	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	9.13	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	9.12	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	9.53	<=13	Pass
CP-OFDM QPSK		Outer_Full	10.17	<=13	Pass
CP-OFDM 16QAM		Outer_Full	10.23	<=13	Pass
CP-OFDM 64QAM		Outer_Full	10.54	<=13	Pass
CP-OFDM 256QAM		Outer_Full	10.99	<=13	Pass
DFT-s-OFDM PI/2 BPSK	Middle CH	Outer_Full	7.17	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	8.41	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	9.06	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	9.25	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	9.50	<=13	Pass
CP-OFDM QPSK		Outer_Full	10.61	<=13	Pass
CP-OFDM 16QAM		Outer_Full	10.03	<=13	Pass
CP-OFDM 64QAM		Outer_Full	10.46	<=13	Pass
CP-OFDM 256QAM		Outer_Full	11.06	<=13	Pass
DFT-s-OFDM PI/2 BPSK	High CH	Outer_Full	7.06	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	8.40	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	9.05	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	9.26	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	9.56	<=13	Pass
CP-OFDM QPSK		Outer_Full	10.51	<=13	Pass
CP-OFDM 16QAM		Outer_Full	10.58	<=13	Pass
CP-OFDM 64QAM		Outer_Full	10.25	<=13	Pass
CP-OFDM 256QAM		Outer_Full	11.09	<=13	Pass

5G NR n38 SCS=30kHz 20MHz					
Modulation	CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK	Low CH	Outer_Full	7.26	<=13	Pass
DFT-s-OFDM QPSK		Outer_Full	8.34	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	9.23	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	9.30	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	9.44	<=13	Pass
CP-OFDM QPSK		Outer_Full	10.08	<=13	Pass
CP-OFDM 16QAM		Outer_Full	10.18	<=13	Pass
CP-OFDM 64QAM		Outer_Full	10.61	<=13	Pass
CP-OFDM 256QAM		Outer_Full	10.96	<=13	Pass
DFT-s-OFDM PI/2 BPSK		Middle CH	Outer_Full	7.20	<=13
DFT-s-OFDM QPSK	Outer_Full		8.30	<=13	Pass
DFT-s-OFDM 16QAM	Outer_Full		9.13	<=13	Pass
DFT-s-OFDM 64QAM	Outer_Full		9.27	<=13	Pass
DFT-s-OFDM 256QAM	Outer_Full		9.44	<=13	Pass
CP-OFDM QPSK	Outer_Full		10.47	<=13	Pass
CP-OFDM 16QAM	Outer_Full		10.63	<=13	Pass
CP-OFDM 64QAM	Outer_Full		10.41	<=13	Pass
CP-OFDM 256QAM	Outer_Full		11.27	<=13	Pass
DFT-s-OFDM PI/2 BPSK	High CH		Outer_Full	7.12	<=13
DFT-s-OFDM QPSK		Outer_Full	8.28	<=13	Pass
DFT-s-OFDM 16QAM		Outer_Full	9.14	<=13	Pass
DFT-s-OFDM 64QAM		Outer_Full	9.27	<=13	Pass
DFT-s-OFDM 256QAM		Outer_Full	9.49	<=13	Pass
CP-OFDM QPSK		Outer_Full	10.35	<=13	Pass
CP-OFDM 16QAM		Outer_Full	10.56	<=13	Pass
CP-OFDM 64QAM		Outer_Full	10.26	<=13	Pass
CP-OFDM 256QAM		Outer_Full	11.36	<=13	Pass

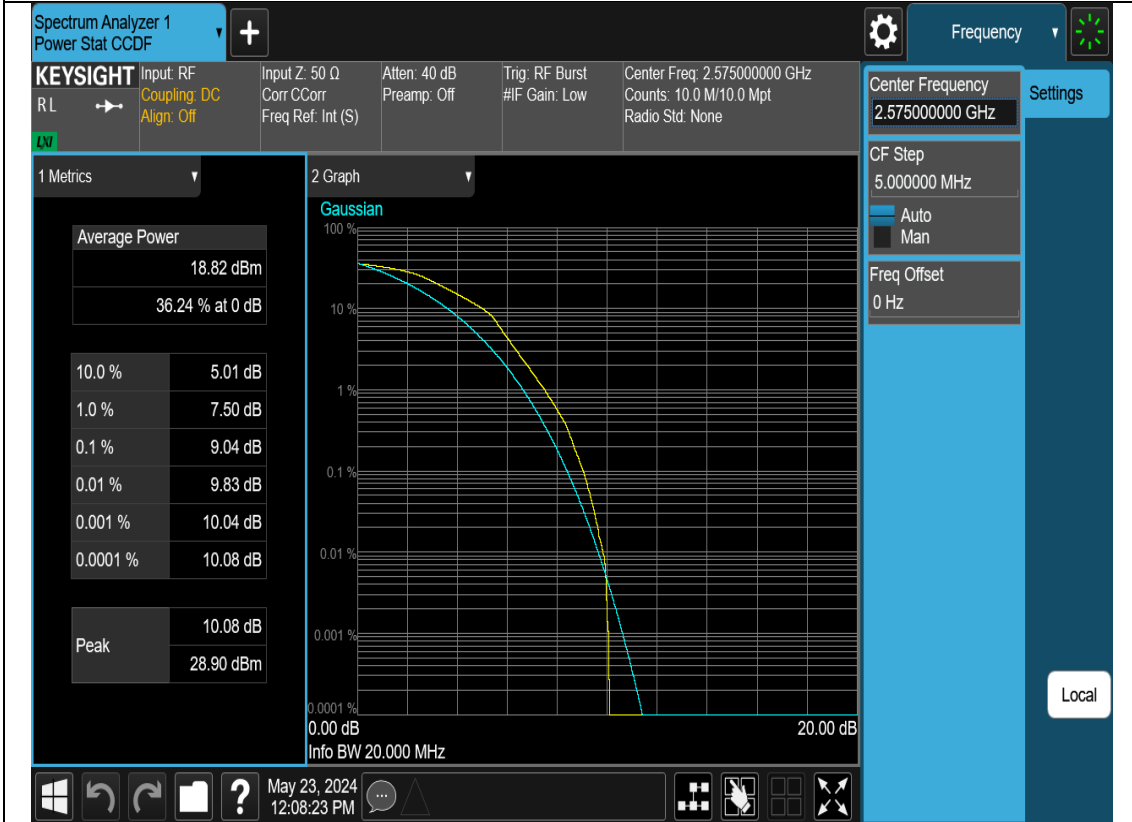
Test Graph



N38-10M-PAPR-L-DFT-s-OFDM-QPSK-Outer_Full



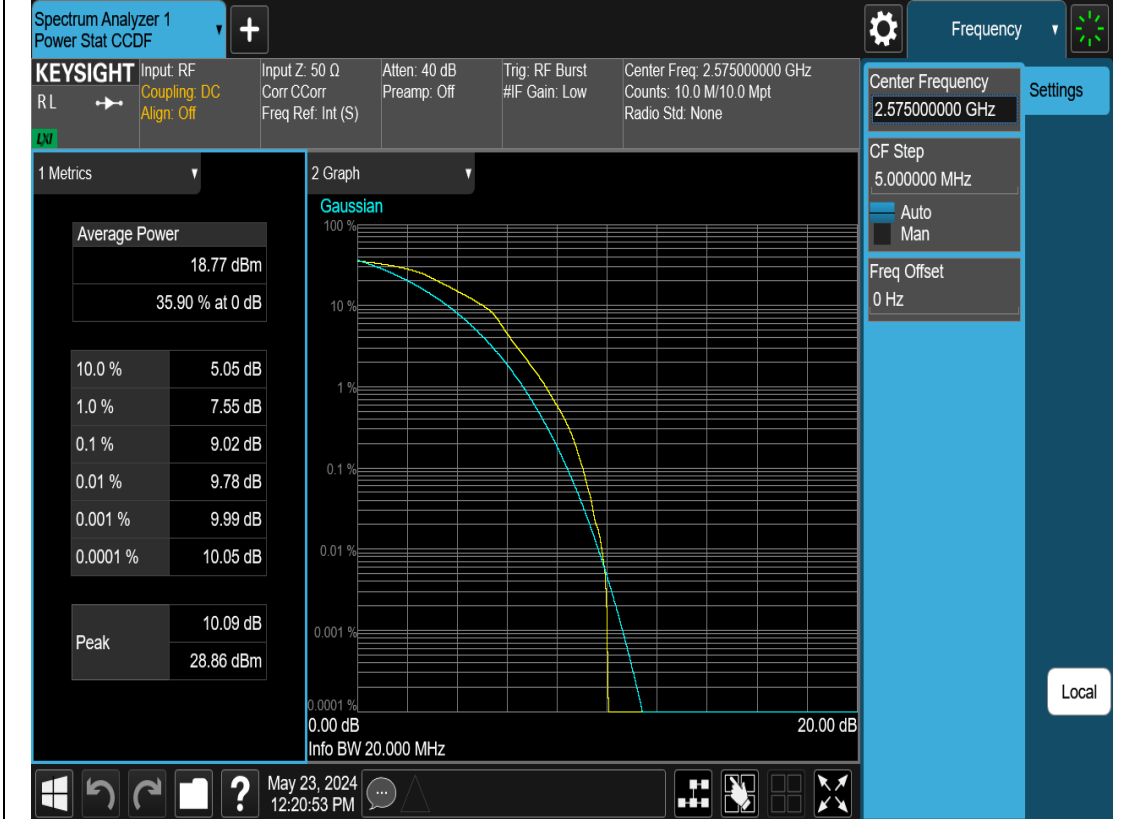
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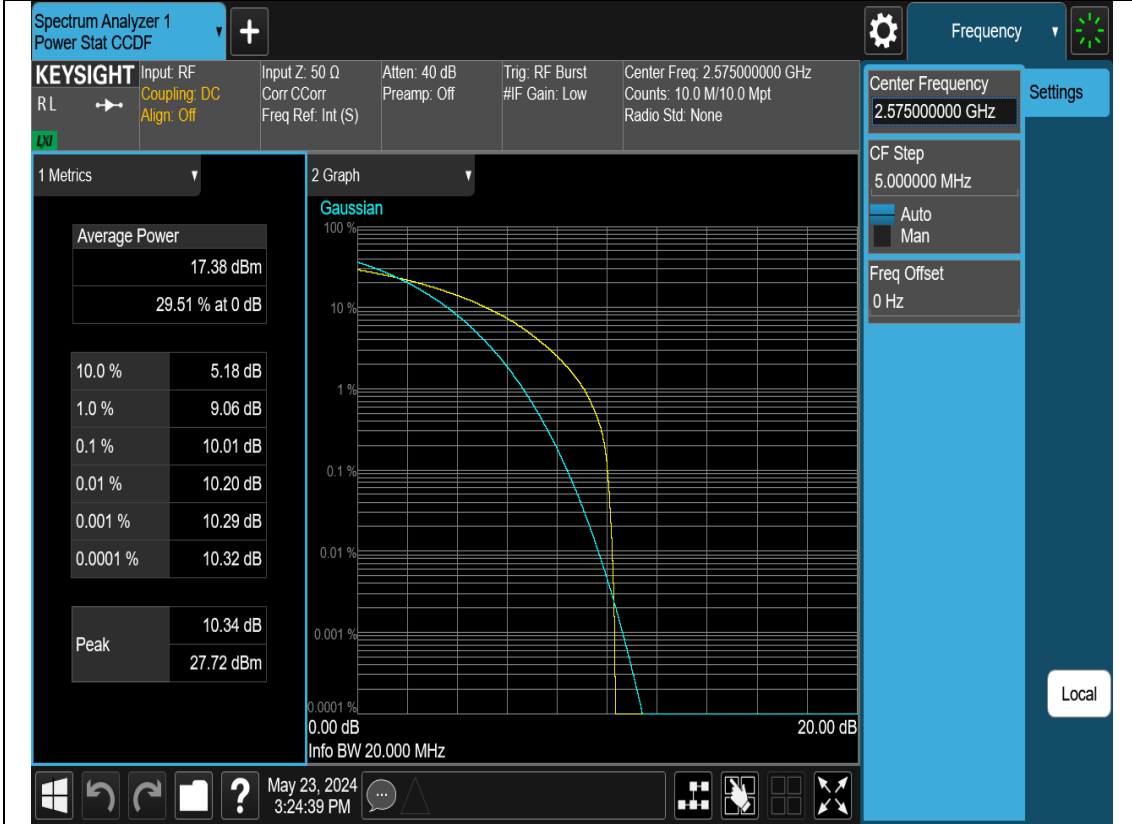
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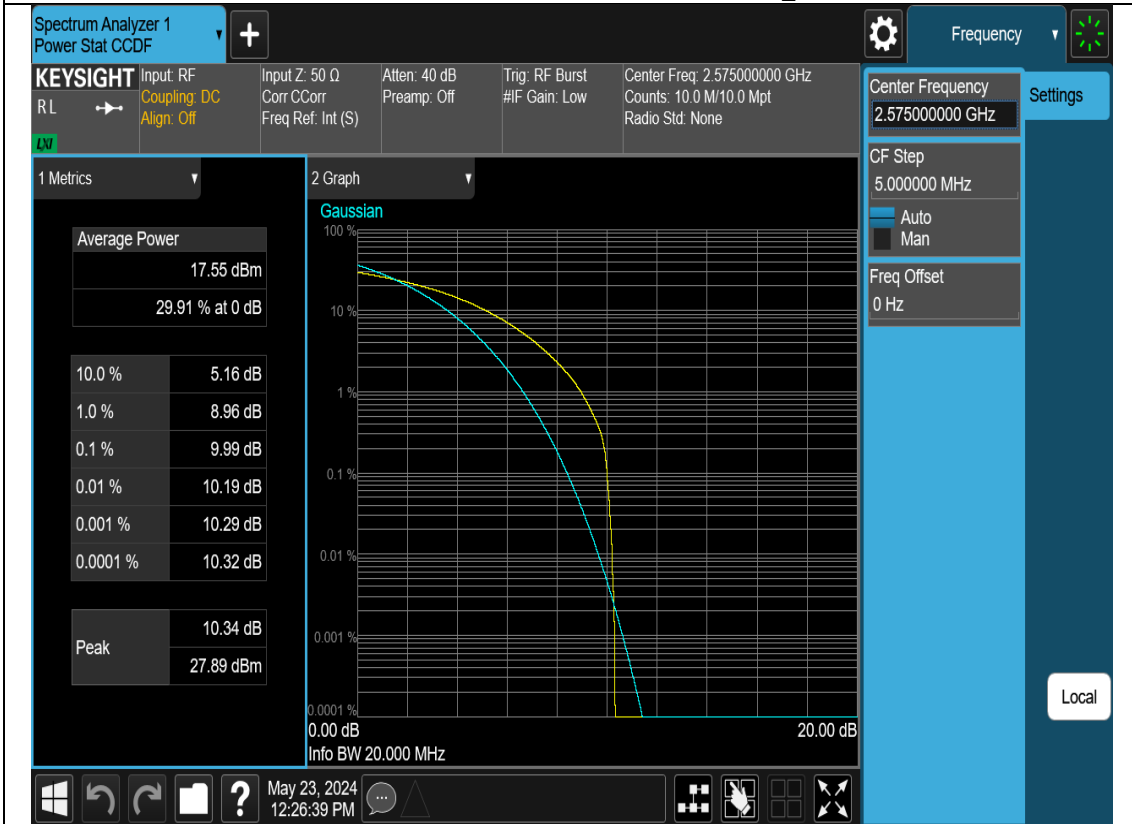
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N38-10M-PAPR-L-CP-OFDM-QPSK-Outer_Full



N38-10M-PAPR-L-CP-OFDM-16QAM-Outer_Full



N38-10M-PAPR-L-CP-OFDM-64QAM-Outer_Full

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

Trig: RF Burst
#IF Gain: Low

Center Freq: 2.575000000 GHz
Counts: 10.0 M/10.0 Mpt
Radio Std: None

Center Frequency: 2.575000000 GHz

CF Step: 5.000000 MHz

Freq Offset: 0 Hz

1 Metrics

Average Power

17.61 dBm

29.89 % at 0 dB

10.0 %	5.17 dB
1.0 %	8.96 dB
0.1 %	10.01 dB
0.01 %	10.20 dB
0.001 %	10.31 dB
0.0001 %	10.34 dB

Peak

10.36 dB

27.97 dBm

2 Graph

Gaussian

0.0001 %

0.001 %

0.01 %

0.1 %

1 %

10 %

100 %

0.00 dB

20.00 dB

Info BW 20.000 MHz

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N38-10M-PAPR-L-CP-OFDM-256QAM-Outer_Full

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

Trig: RF Burst
#IF Gain: Low

Center Freq: 2.575000000 GHz
Counts: 10.0 M/10.0 Mpt
Radio Std: None

Center Frequency: 2.575000000 GHz

CF Step: 5.000000 MHz

Freq Offset: 0 Hz

1 Metrics

Average Power

17.70 dBm

29.92 % at 0 dB

10.0 %	5.16 dB
1.0 %	8.96 dB
0.1 %	10.01 dB
0.01 %	10.21 dB
0.001 %	10.32 dB
0.0001 %	10.34 dB

Peak

10.34 dB

28.04 dBm

2 Graph

Gaussian

0.0001 %

0.001 %

0.01 %

0.1 %

1 %

10 %

100 %

0.00 dB

20.00 dB

Info BW 20.000 MHz

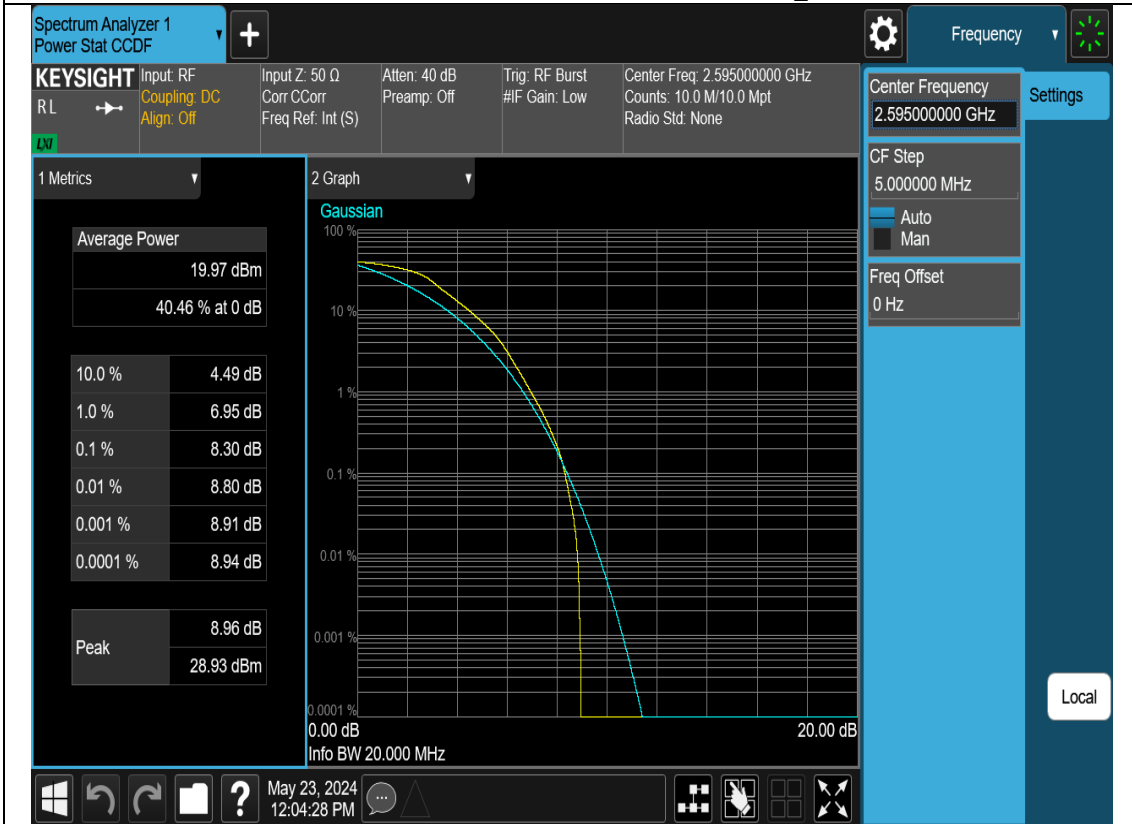
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N38-10M-PAPR-M-DFT-s-OFDM-Pi2 BPSK-Outer_Full



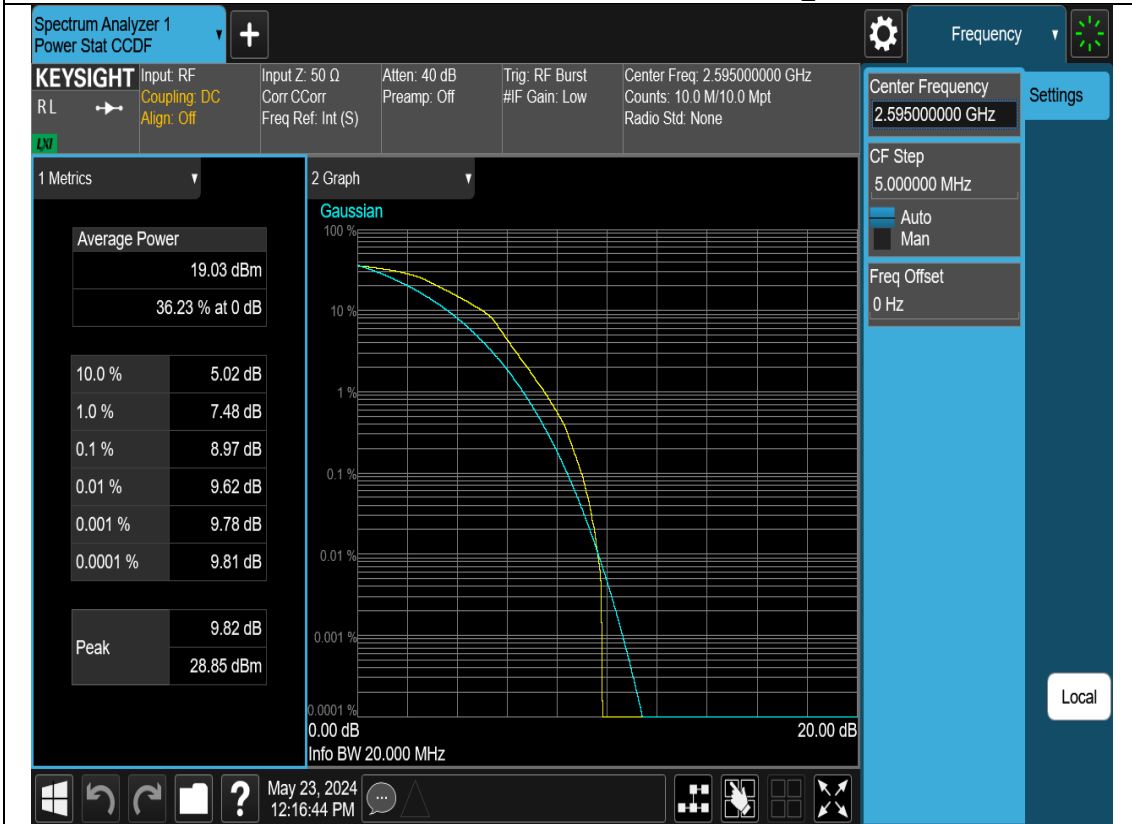
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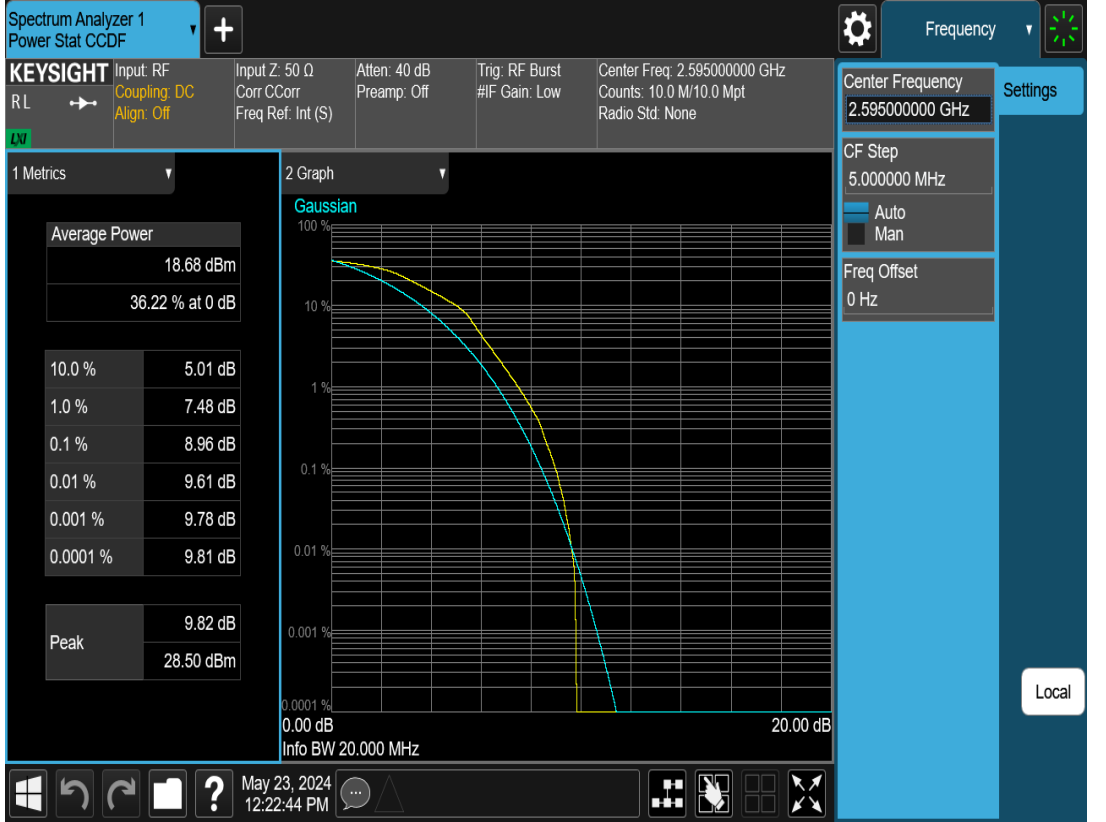
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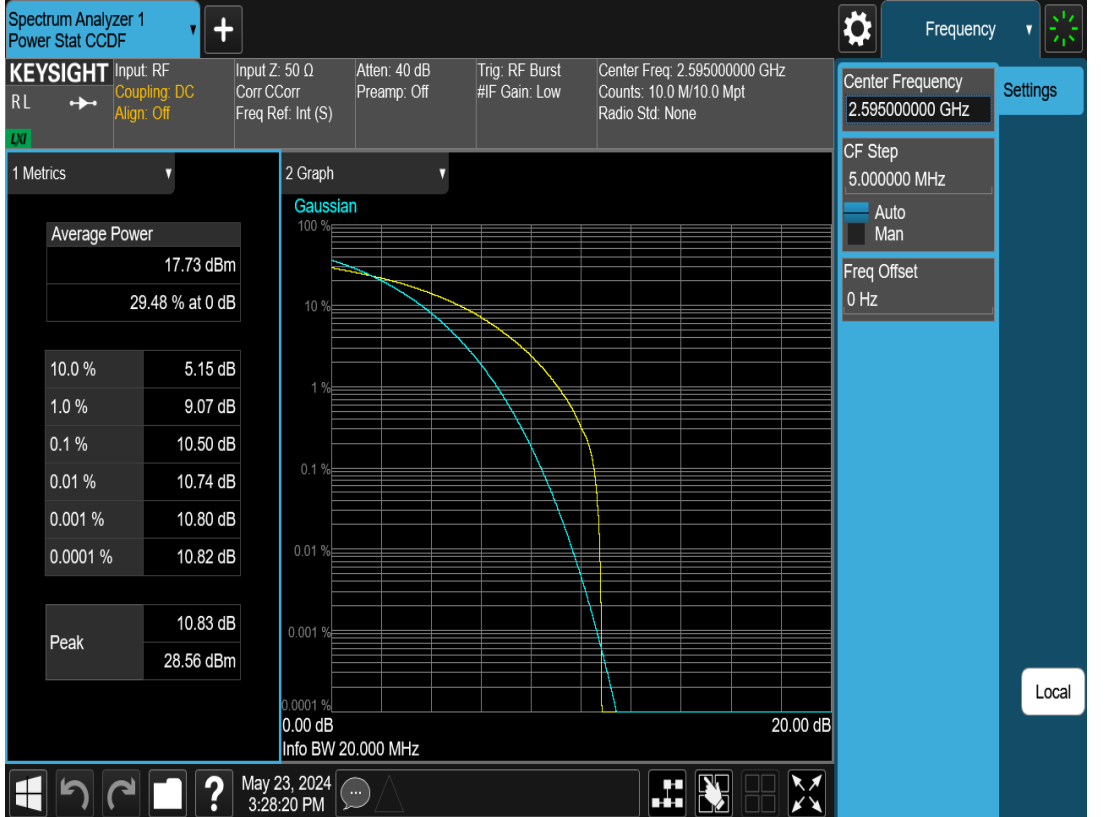
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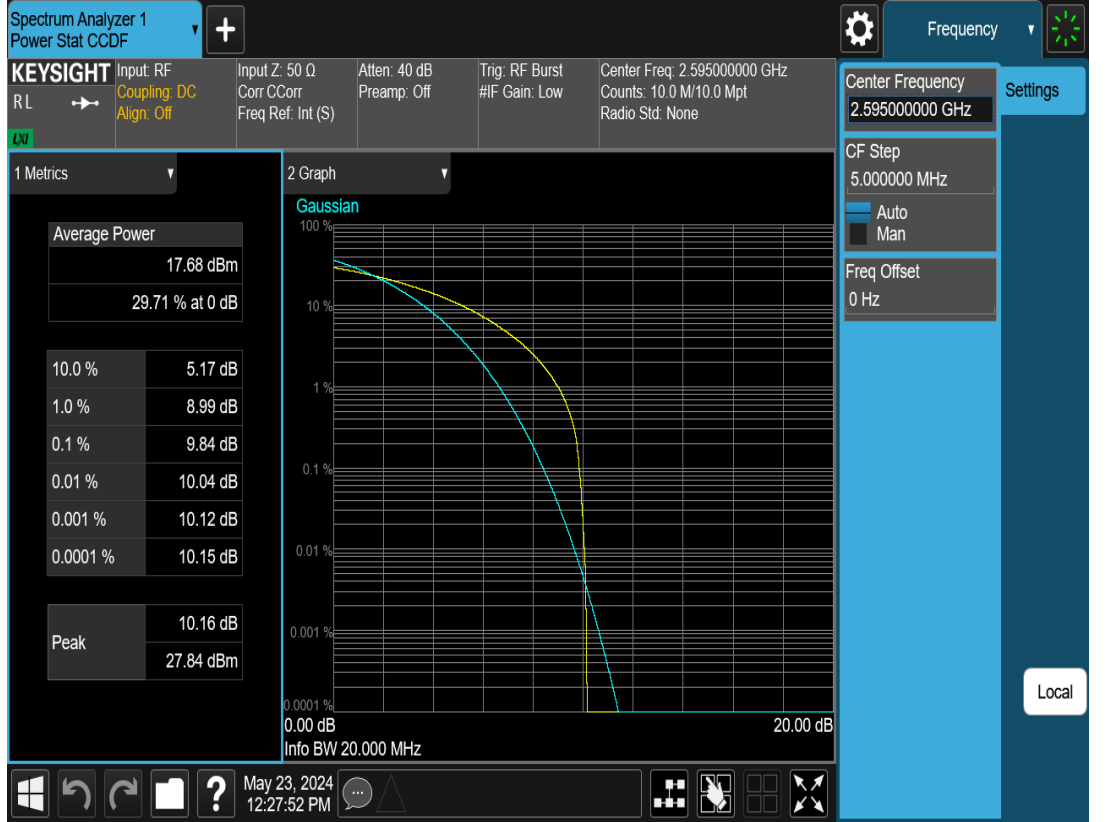
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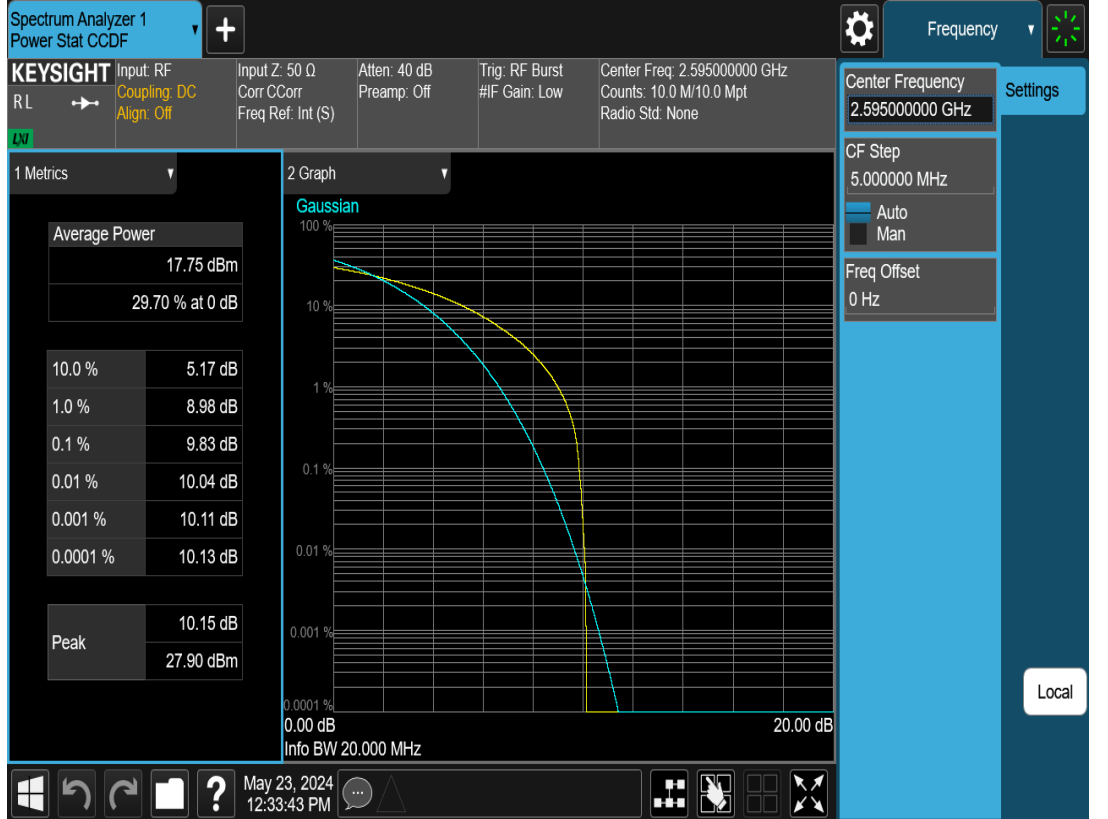
N38-10M-PAPR-M-CP-OFDM-QPSK-Outer_Full



N38-10M-PAPR-M-CP-OFDM-16QAM-Outer_Full



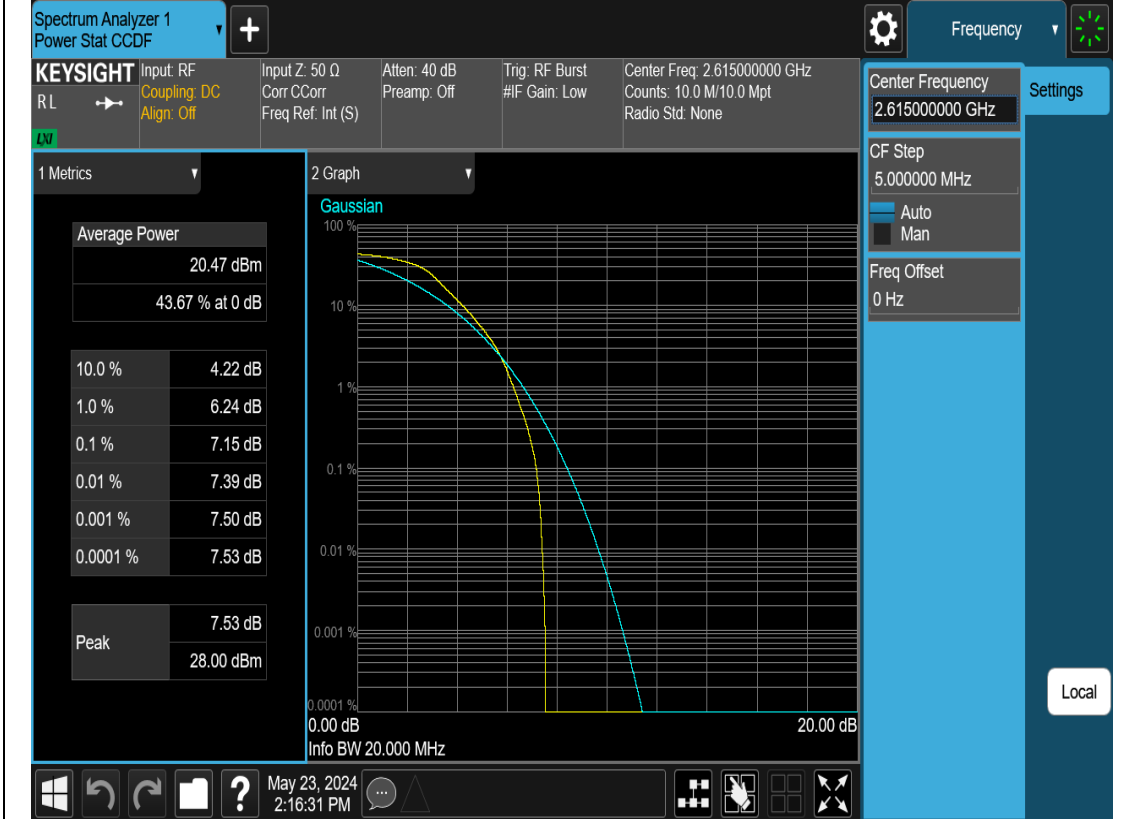
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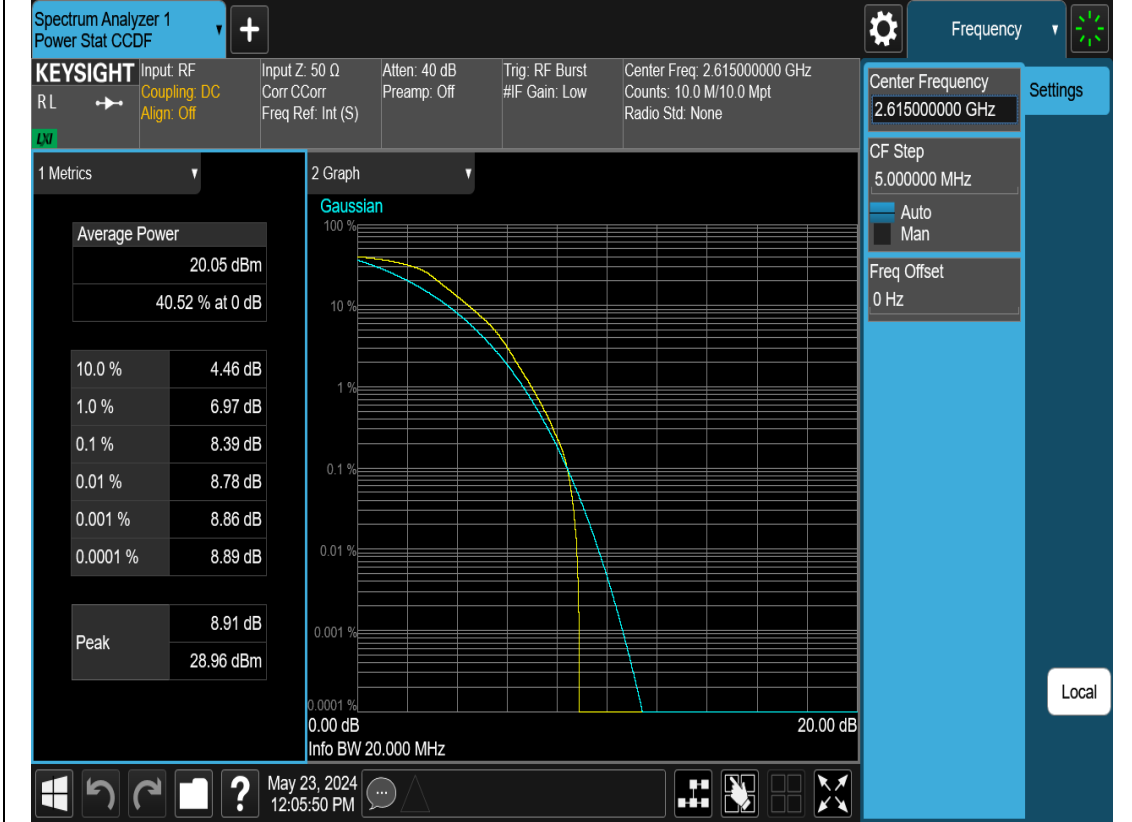
N38-10M-PAPR-M-CP-OFDM-256QAM-Outer_Full



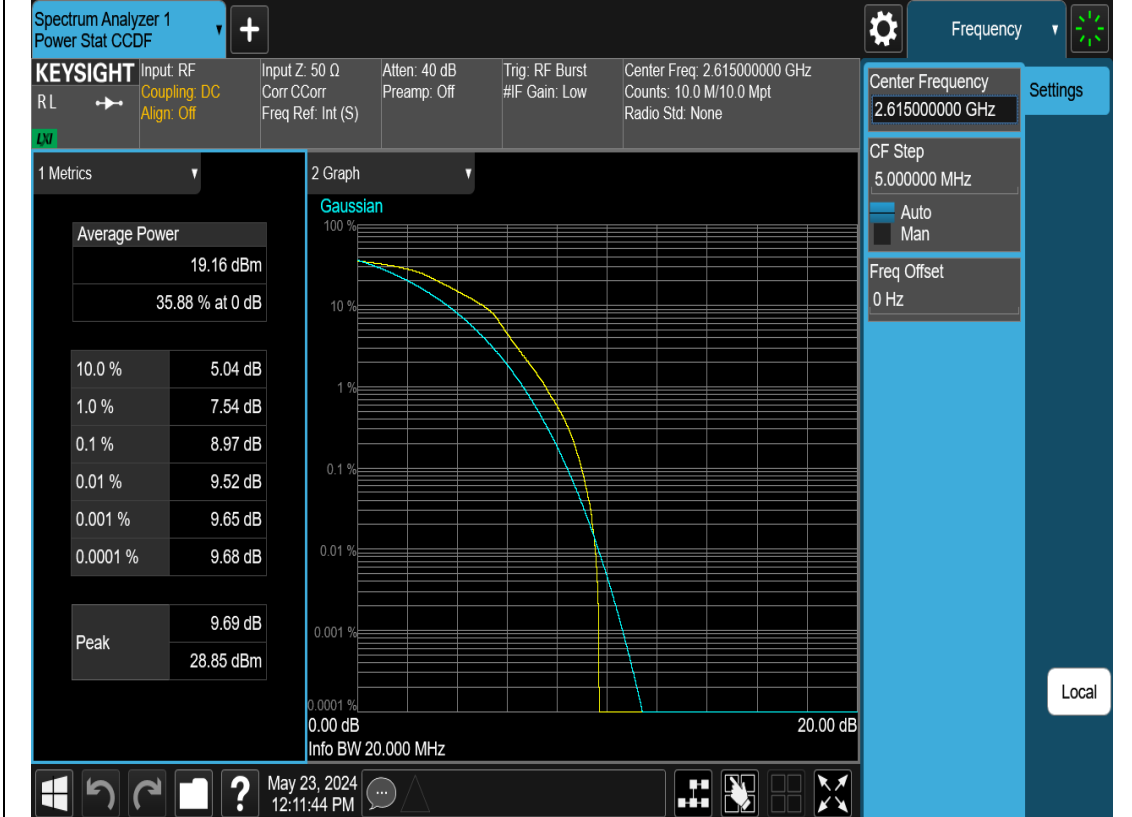
N38-10M-PAPR-H-DFT-s-OFDM-Pi2 BPSK-Outer_Full



N38-10M-PAPR-H-DFT-s-OFDM-QPSK-Outer_Full



N38-10M-PAPR-H-DFT-s-OFDM-16QAM-Outer_Full



N38-10M-PAPR-H-DFT-s-OFDM-64QAM-Outer_Full



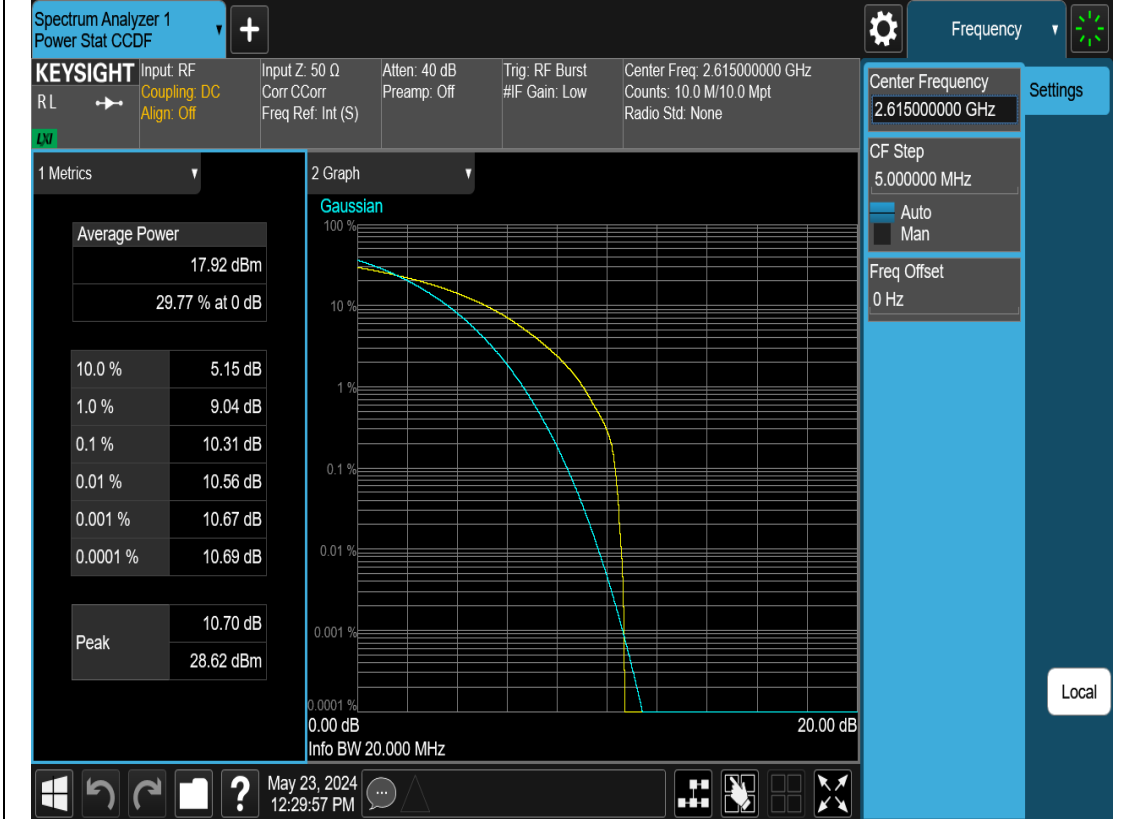
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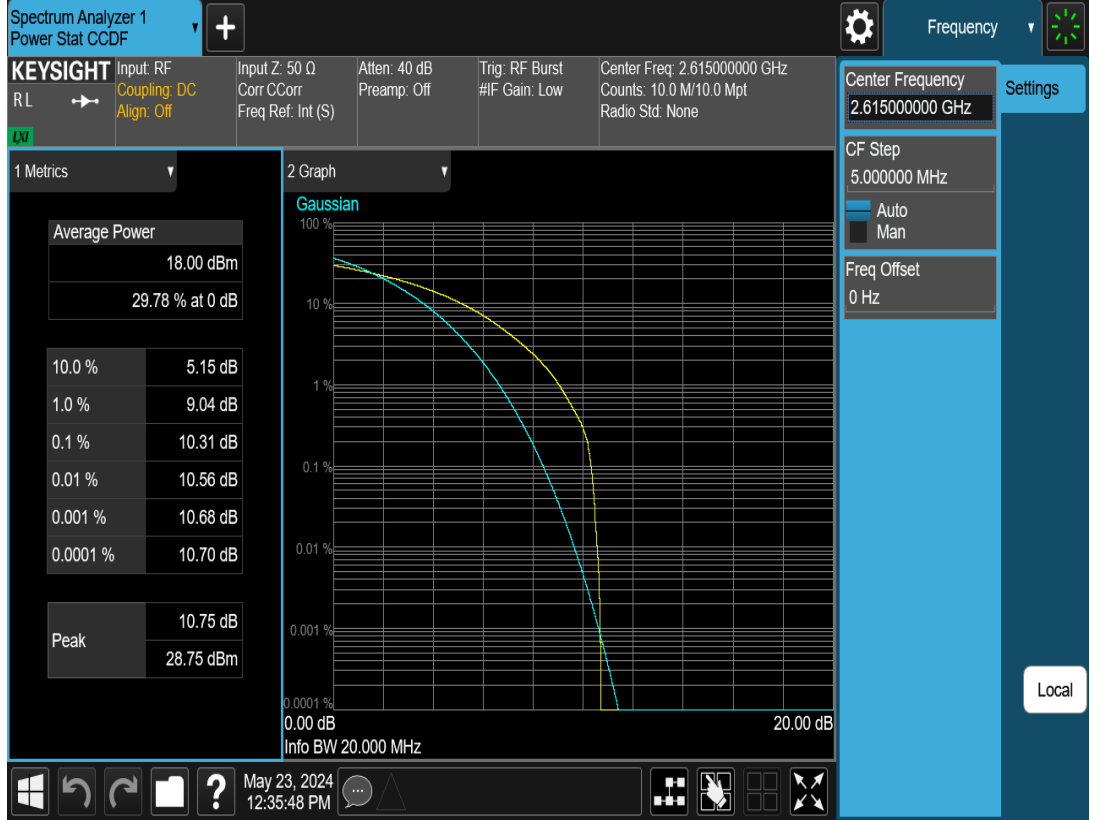
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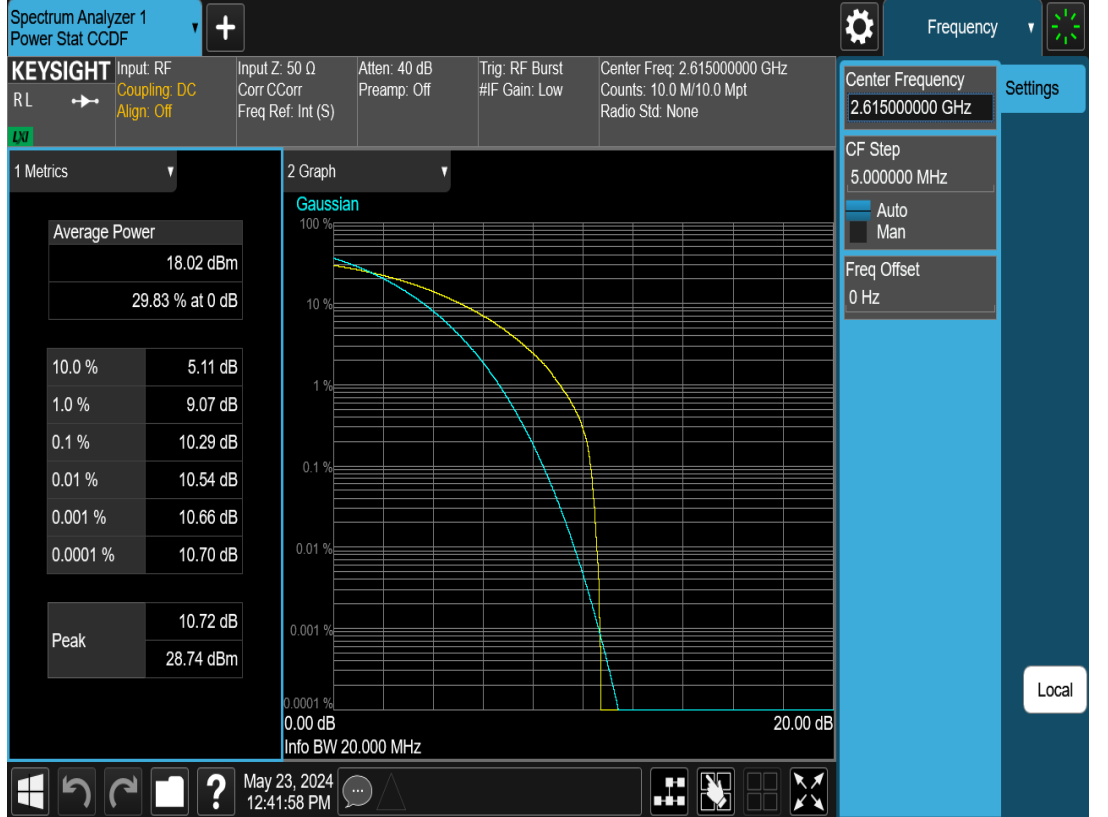
N38-10M-PAPR-H-CP-OFDM-16QAM-Outer_Full



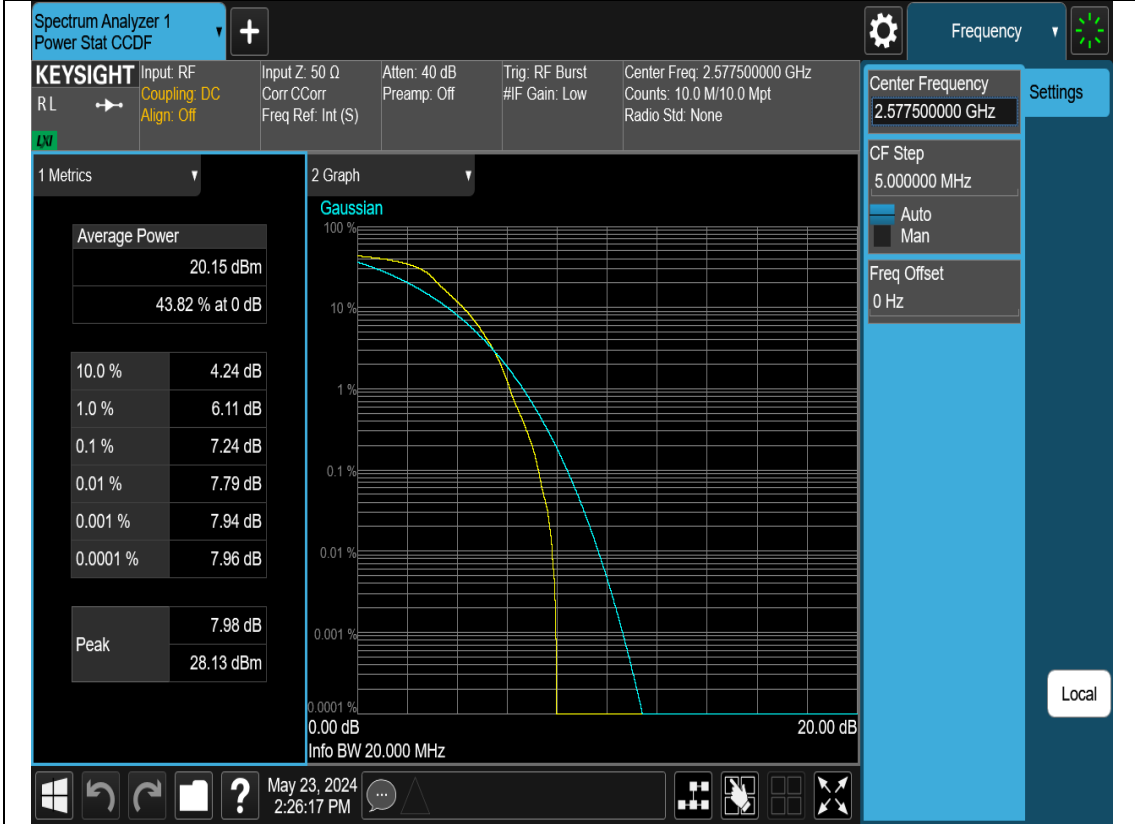
N38-10M-PAPR-H-CP-OFDM-64QAM-Outer_Full



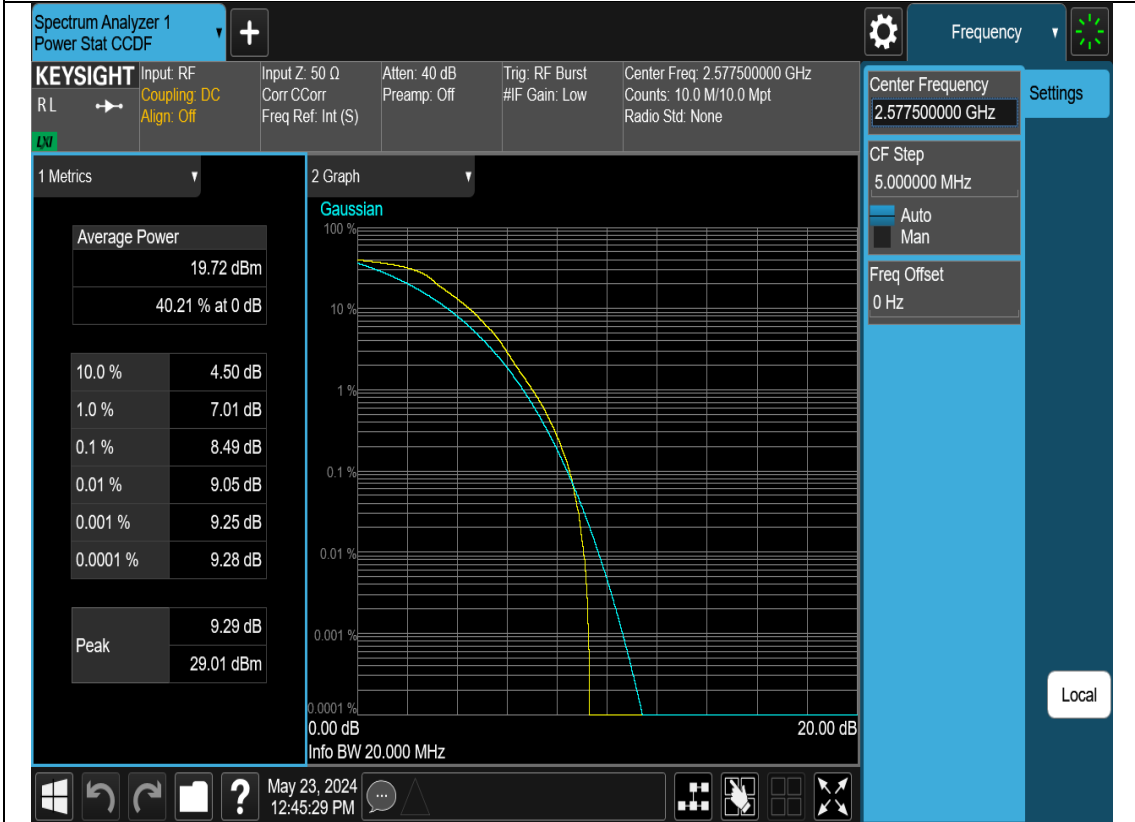
N38-10M-PAPR-H-CP-OFDM-256QAM-Outer_Full



N38-15M-PAPR-L-DFT-s-OFDM-Pi2 BPSK-Outer_Full



N38-15M-PAPR-L-DFT-s-OFDM-QPSK-Outer_Full



N38-15M-PAPR-L-DFT-s-OFDM-16QAM-Outer_Full

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

Trig: RF Burst
#IF Gain: Low

Center Freq: 2.577500000 GHz
Counts: 10.0 M/10.0 Mpt
Radio Std: None

Center Frequency: 2.577500000 GHz

CF Step: 5.000000 MHz

Freq Offset: 0 Hz

1 Metrics

Average Power

18.67 dBm

35.47 % at 0 dB

10.0 %	5.01 dB
1.0 %	7.56 dB
0.1 %	9.13 dB
0.01 %	10.12 dB
0.001 %	10.43 dB
0.0001 %	10.53 dB

Peak

10.55 dB

29.22 dBm

2 Graph

Gaussian

0.0001 %

0.001 %

0.01 %

0.1 %

1 %

10 %

100 %

0.00 dB

20.00 dB

Info BW 20.000 MHz

May 23, 2024
12:48:10 PM

Local

N38-15M-PAPR-L-DFT-s-OFDM-64QAM-Outer_Full

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

Trig: RF Burst
#IF Gain: Low

Center Freq: 2.577500000 GHz
Counts: 10.0 M/10.0 Mpt
Radio Std: None

Center Frequency: 2.577500000 GHz

CF Step: 5.000000 MHz

Freq Offset: 0 Hz

1 Metrics

Average Power

18.70 dBm

35.46 % at 0 dB

10.0 %	5.01 dB
1.0 %	7.56 dB
0.1 %	9.12 dB
0.01 %	10.10 dB
0.001 %	10.43 dB
0.0001 %	10.51 dB

Peak

10.54 dB

29.24 dBm

2 Graph

Gaussian

0.0001 %

0.001 %

0.01 %

0.1 %

1 %

10 %

100 %

0.00 dB

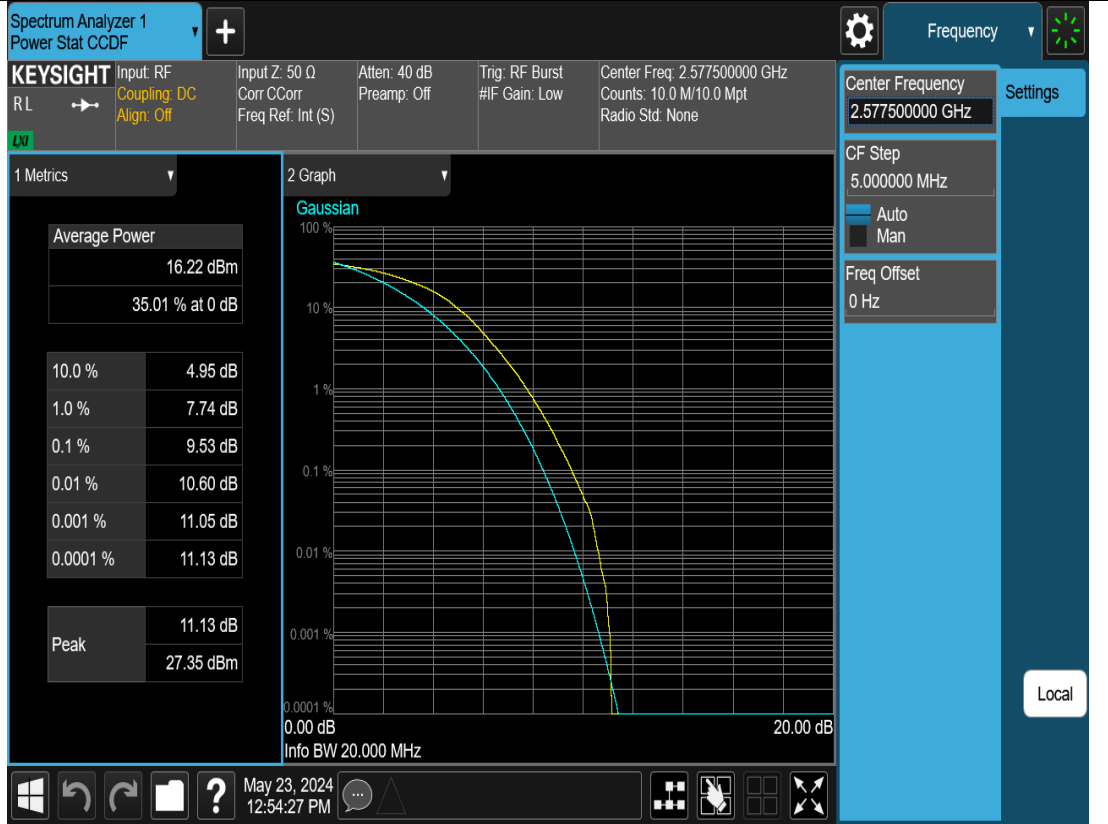
20.00 dB

Info BW 20.000 MHz

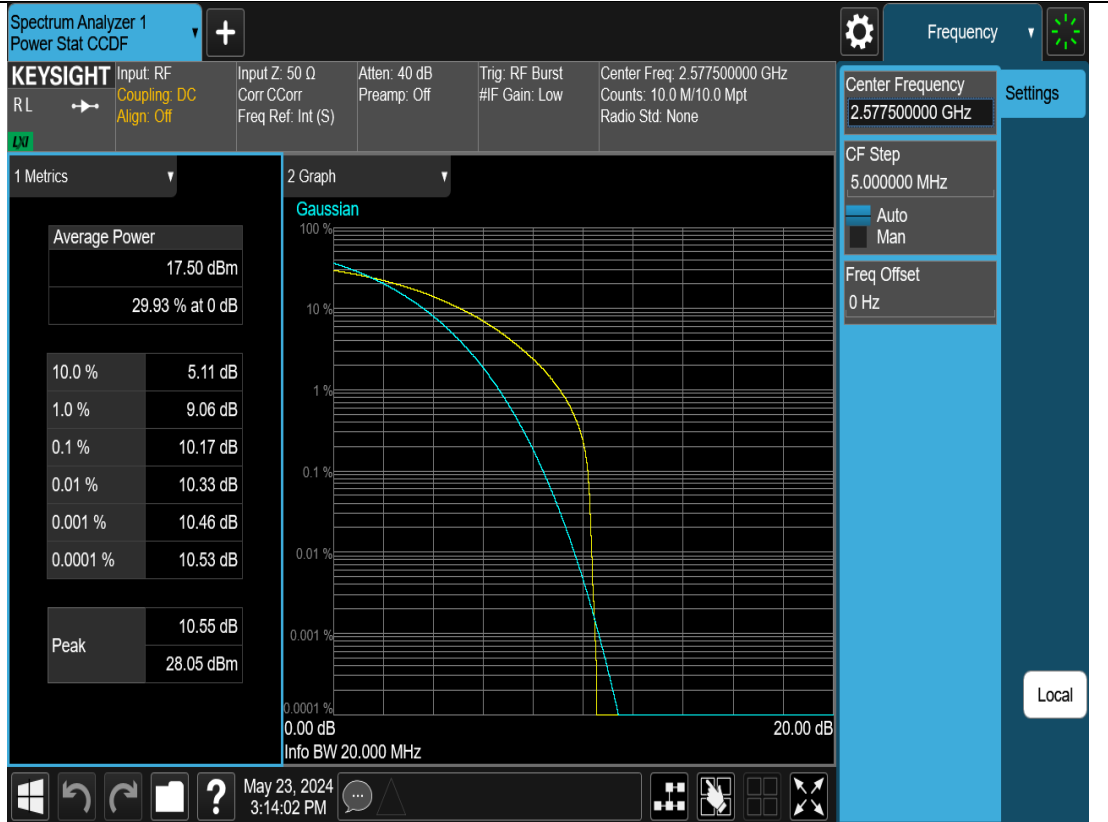
May 23, 2024
12:51:31 PM

Local

N38-15M-PAPR-L-DFT-s-OFDM-256QAM-Outer_Full



N38-15M-PAPR-L-CP-OFDM-QPSK-Outer_Full



N38-15M-PAPR-L-CP-OFDM-16QAM-Outer_Full

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

Trig: RF Burst
#IF Gain: Low

Center Freq: 2.577500000 GHz
Counts: 10.0 M/10.0 Mpt
Radio Std: None

Center Frequency: 2.577500000 GHz

CF Step: 5.000000 MHz

Freq Offset: 0 Hz

1 Metrics

Average Power

17.75 dBm

29.93 % at 0 dB

10.0 %	5.17 dB
1.0 %	8.96 dB
0.1 %	10.23 dB
0.01 %	10.44 dB
0.001 %	10.50 dB
0.0001 %	10.52 dB

Peak

10.54 dB

28.29 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

May 23, 2024
12:57:22 PM

Local

N38-15M-PAPR-L-CP-OFDM-64QAM-Outer_Full

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

Trig: RF Burst
#IF Gain: Low

Center Freq: 2.577500000 GHz
Counts: 10.0 M/10.0 Mpt
Radio Std: None

Center Frequency: 2.577500000 GHz

CF Step: 5.000000 MHz

Freq Offset: 0 Hz

1 Metrics

Average Power

17.23 dBm

29.61 % at 0 dB

10.0 %	5.16 dB
1.0 %	9.04 dB
0.1 %	10.54 dB
0.01 %	10.91 dB
0.001 %	10.99 dB
0.0001 %	11.04 dB

Peak

11.05 dB

28.28 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

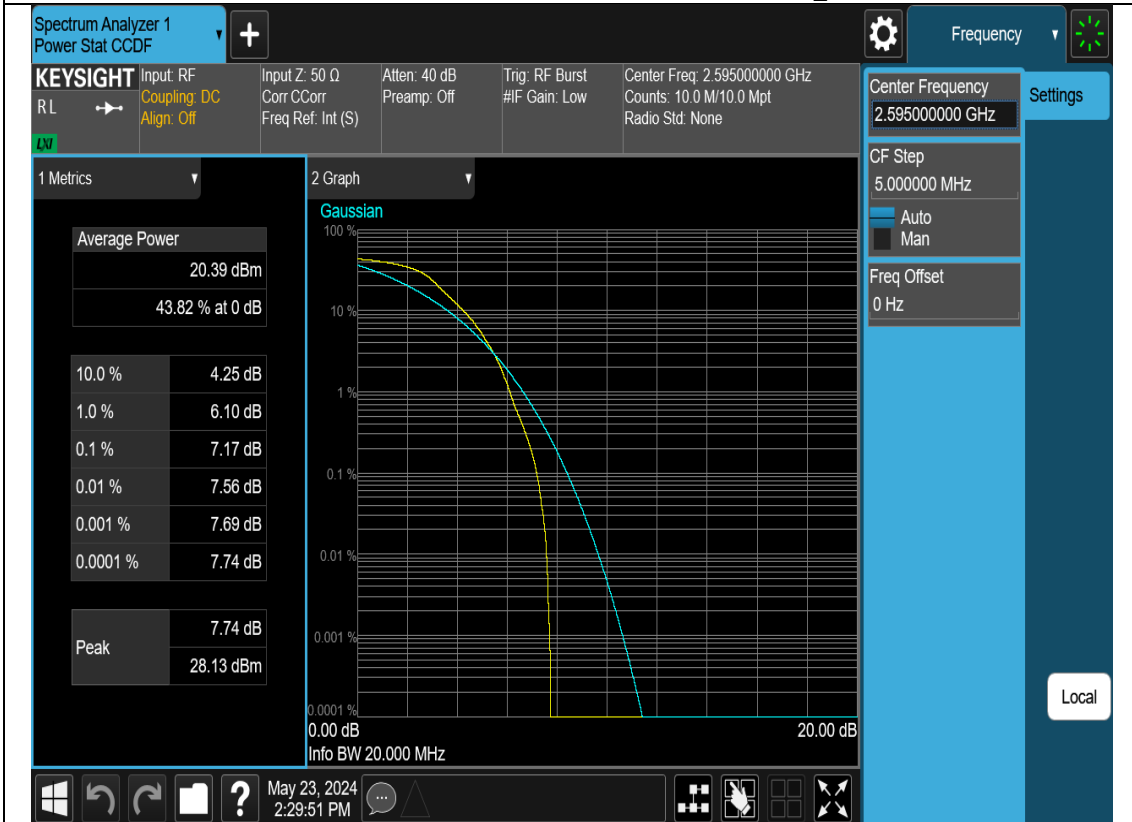
May 23, 2024
1:00:12 PM

Local

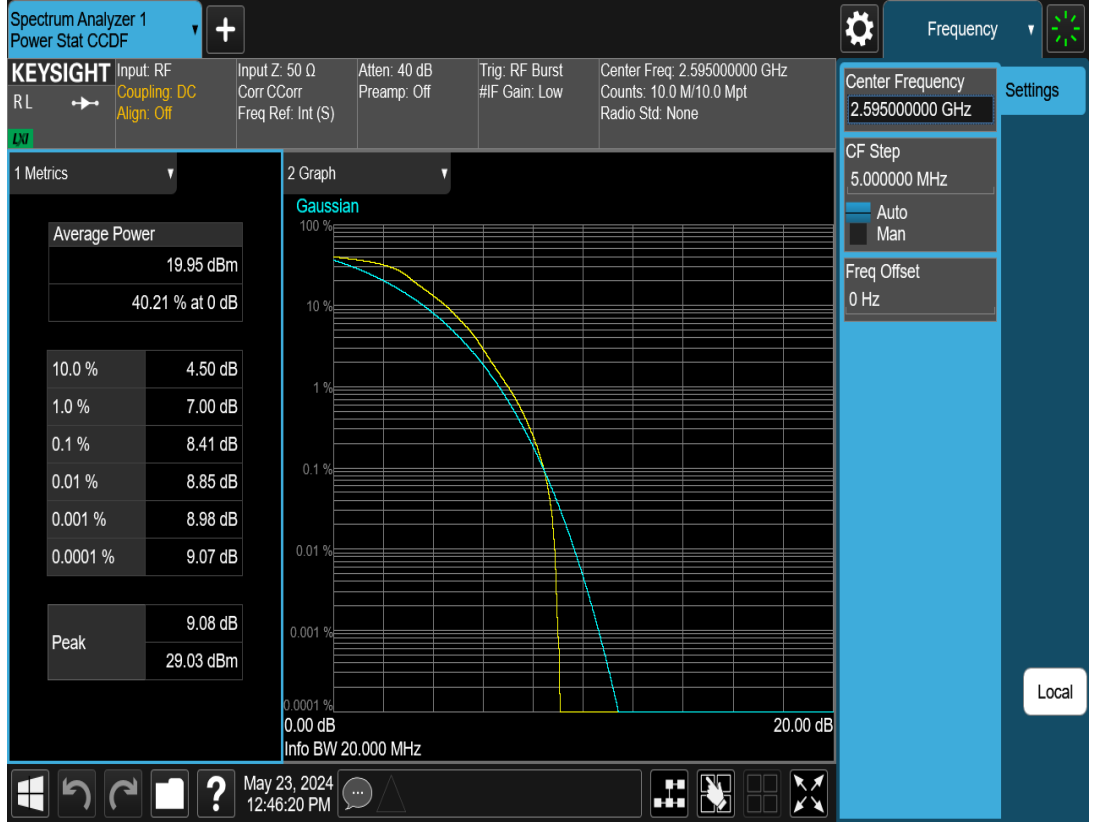
N38-15M-PAPR-L-CP-OFDM-256QAM-Outer_Full



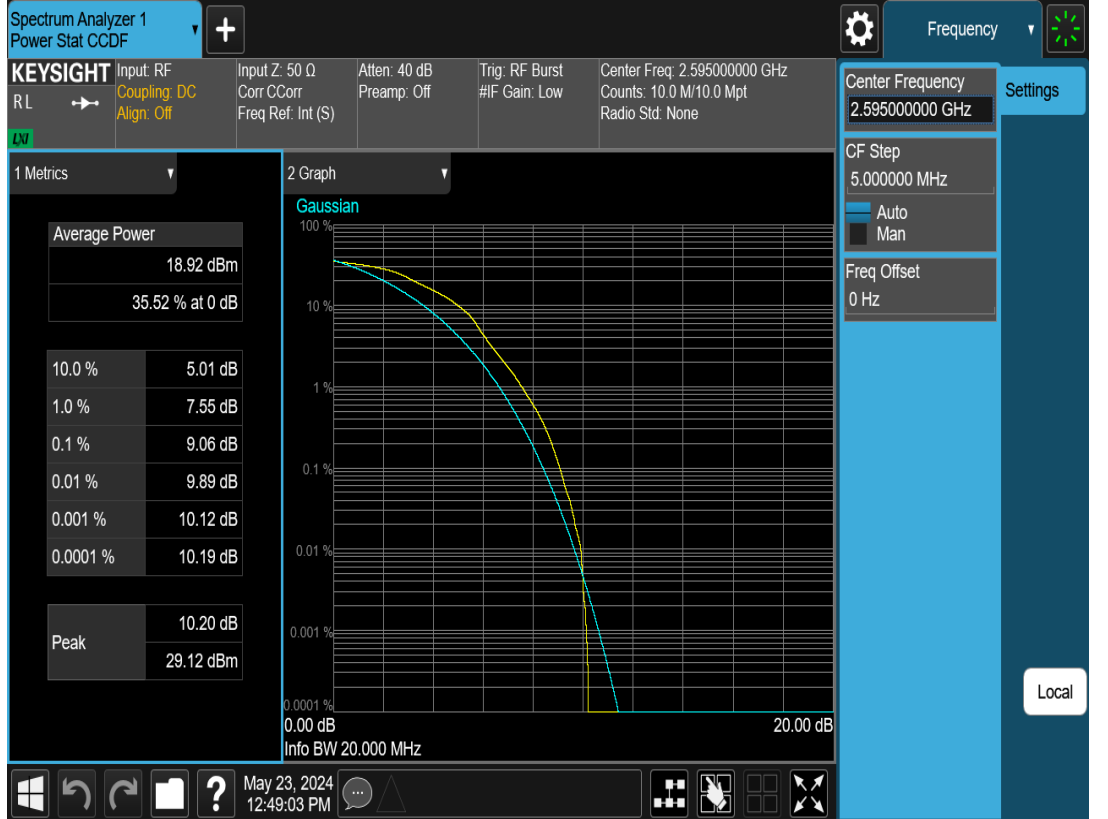
N38-15M-PAPR-M-DFT-s-OFDM-Pi2 BPSK-Outer_Full



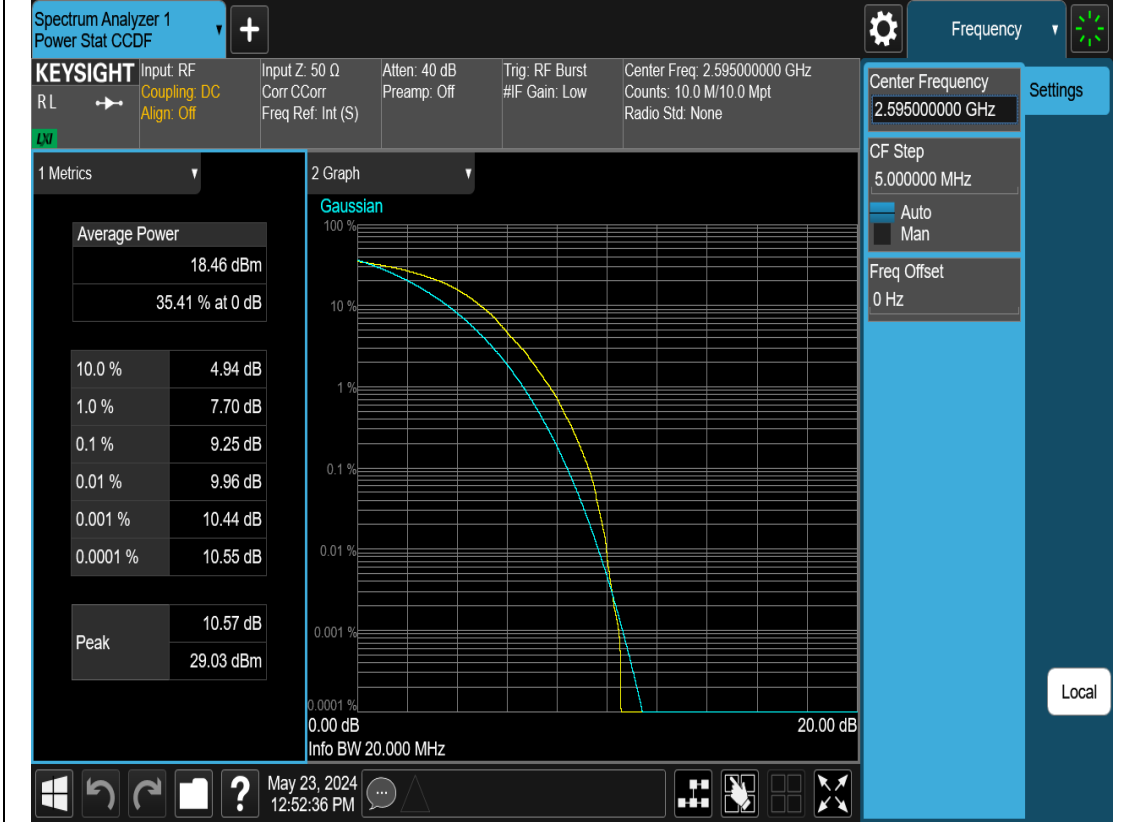
N38-15M-PAPR-M-DFT-s-OFDM-QPSK-Outer_Full



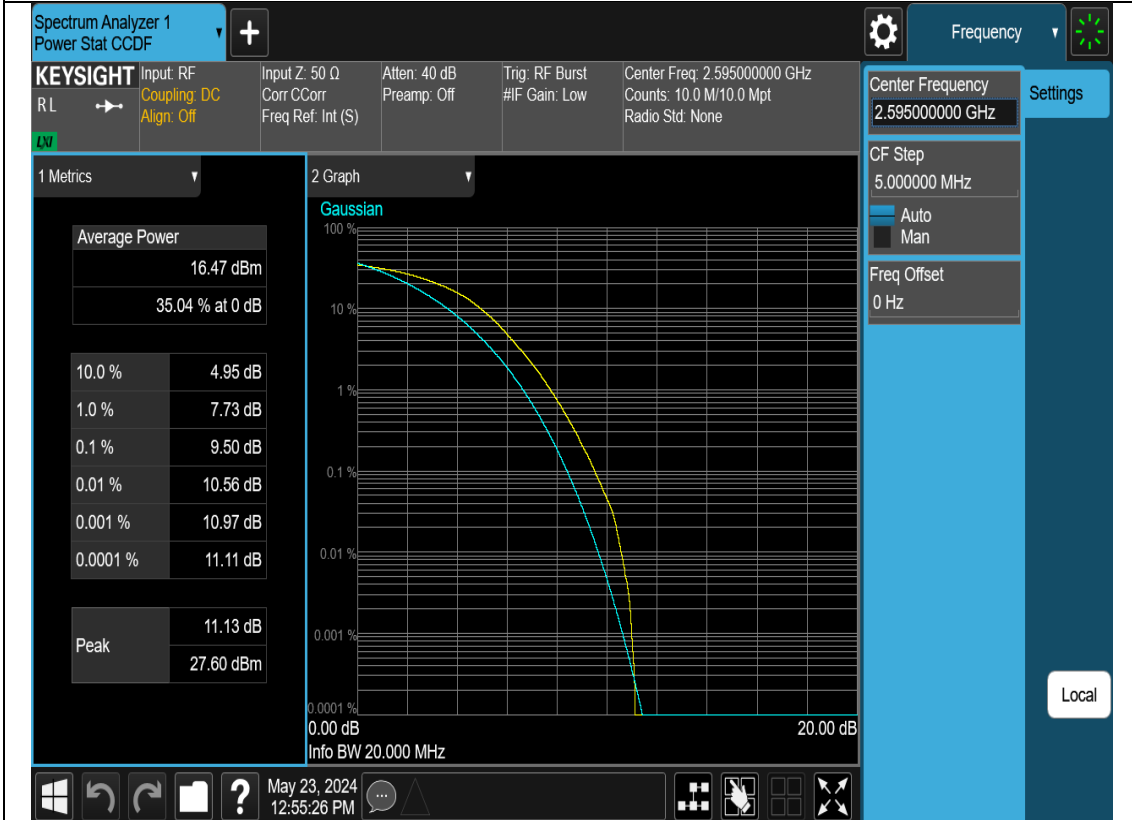
N38-15M-PAPR-M-DFT-s-OFDM-16QAM-Outer_Full



N38-15M-PAPR-M-DFT-s-OFDM-64QAM-Outer_Full



N38-15M-PAPR-M-DFT-s-OFDM-256QAM-Outer_Full



N38-15M-PAPR-M-CP-OFDM-QPSK-Outer_Full



N38-15M-PAPR-M-CP-OFDM-16QAM-Outer_Full



N38-15M-PAPR-M-CP-OFDM-64QAM-Outer_Full



N38-15M-PAPR-M-CP-OFDM-256QAM-Outer_Full

