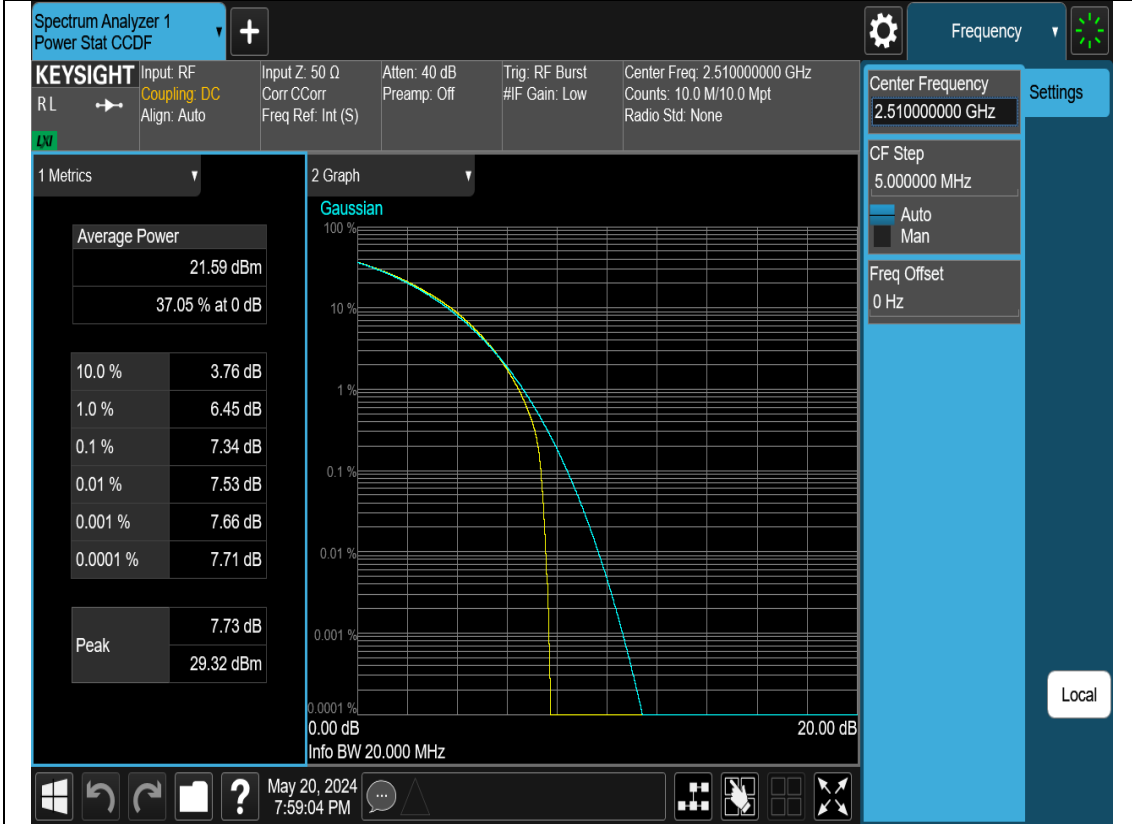


N7-20M-PAPR-L-CP-OFDM-16QAM-Outer_Full



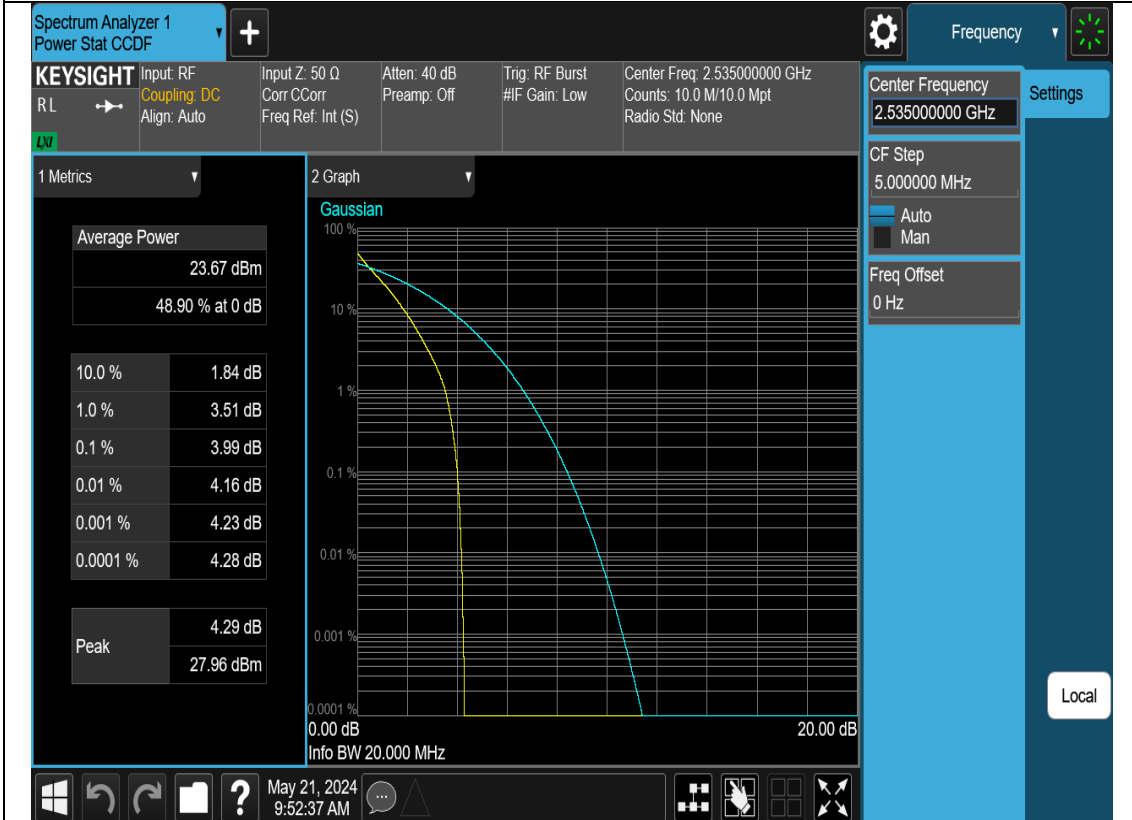
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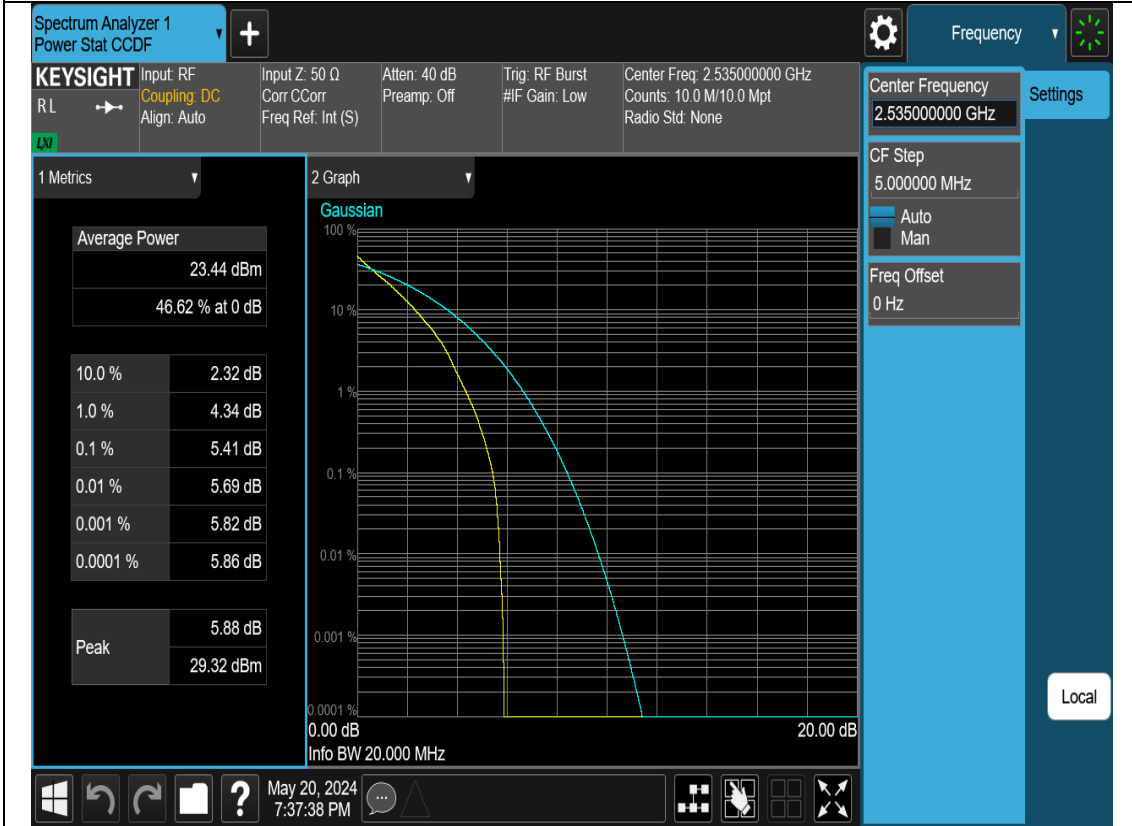
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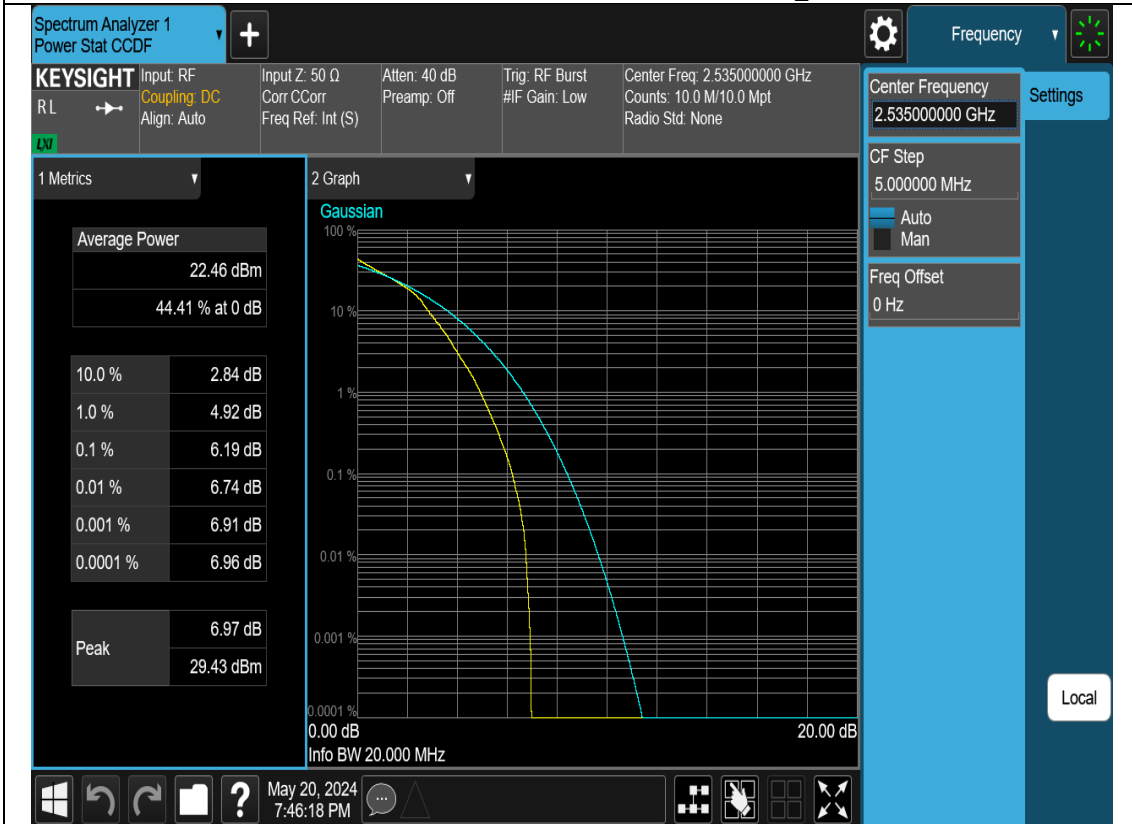
N7-20M-PAPR-M-DFT-s-OFDM-Pi2 BPSK-Outer_Full



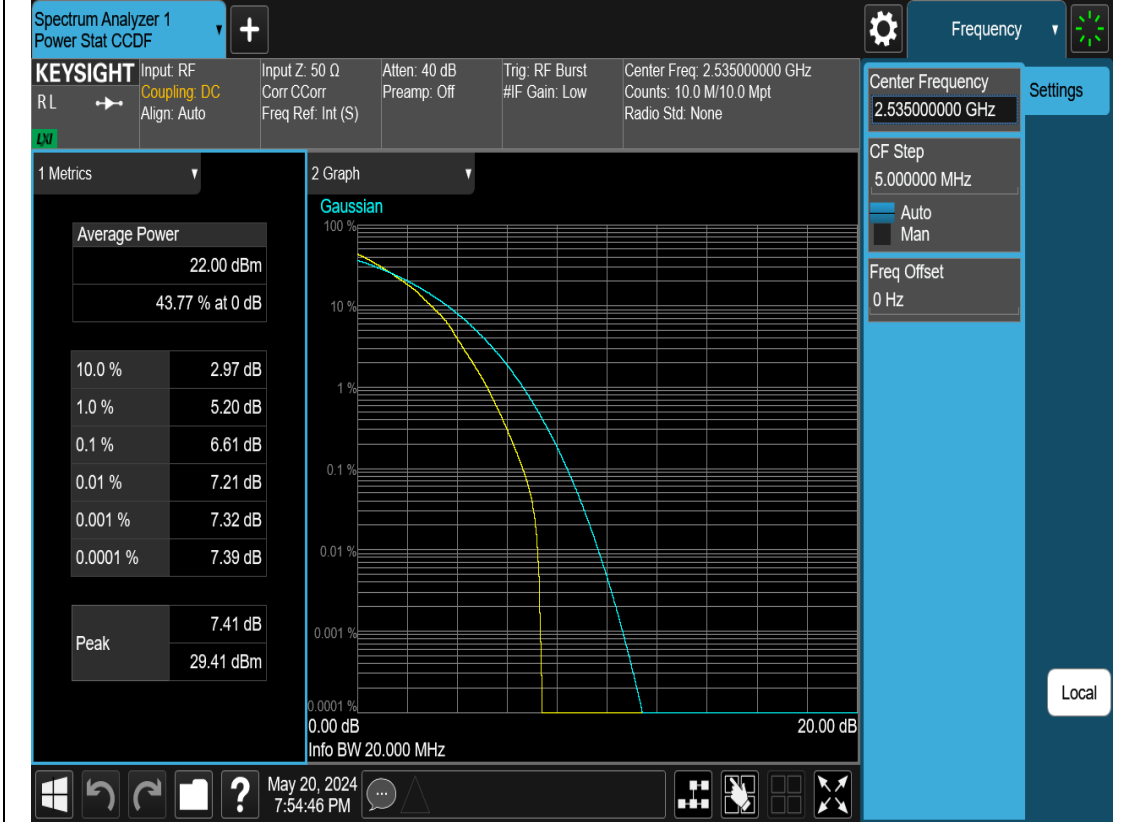
N7-20M-PAPR-M-DFT-s-OFDM-QPSK-Outer_Full



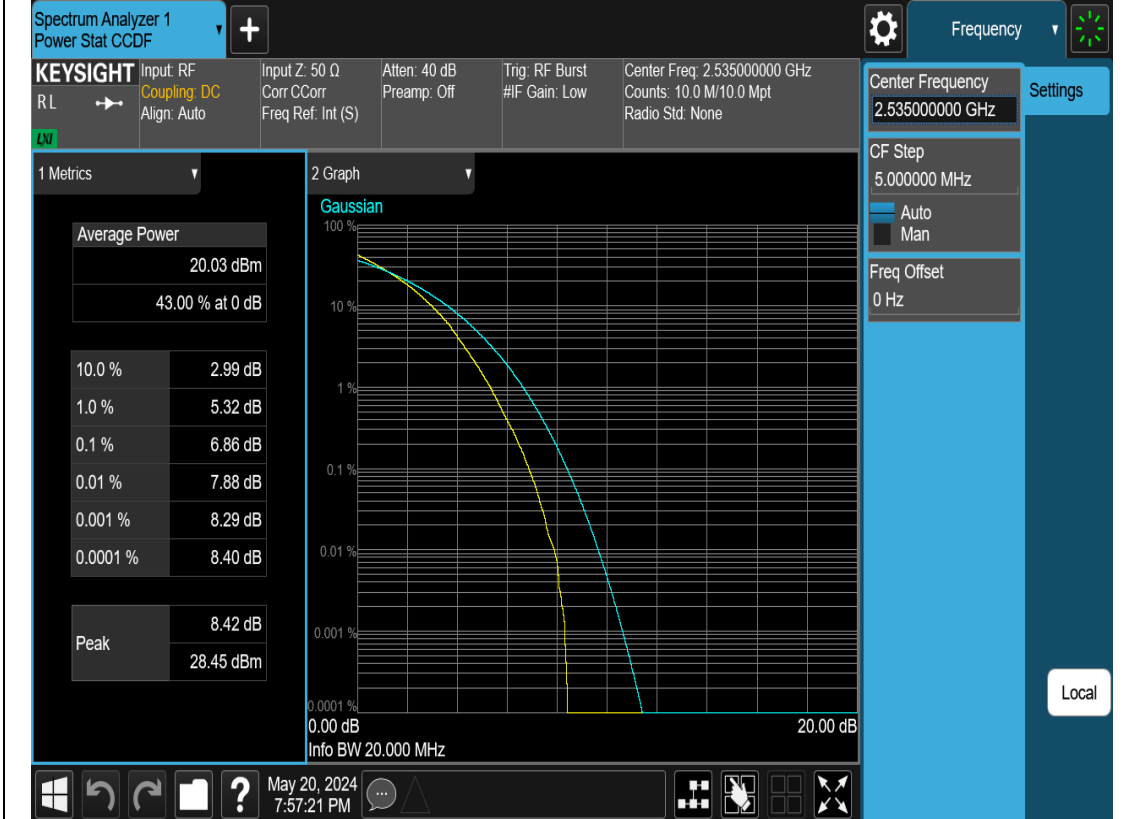
N7-20M-PAPR-M-DFT-s-OFDM-16QAM-Outer_Full



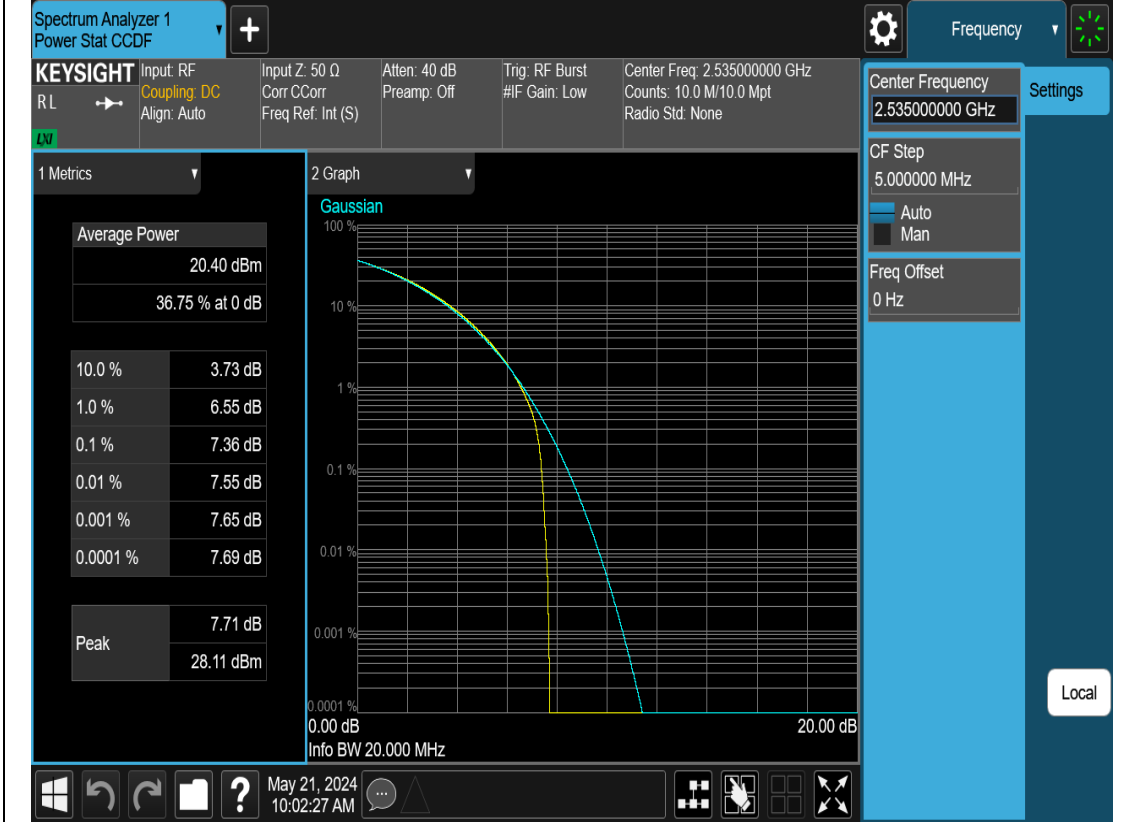
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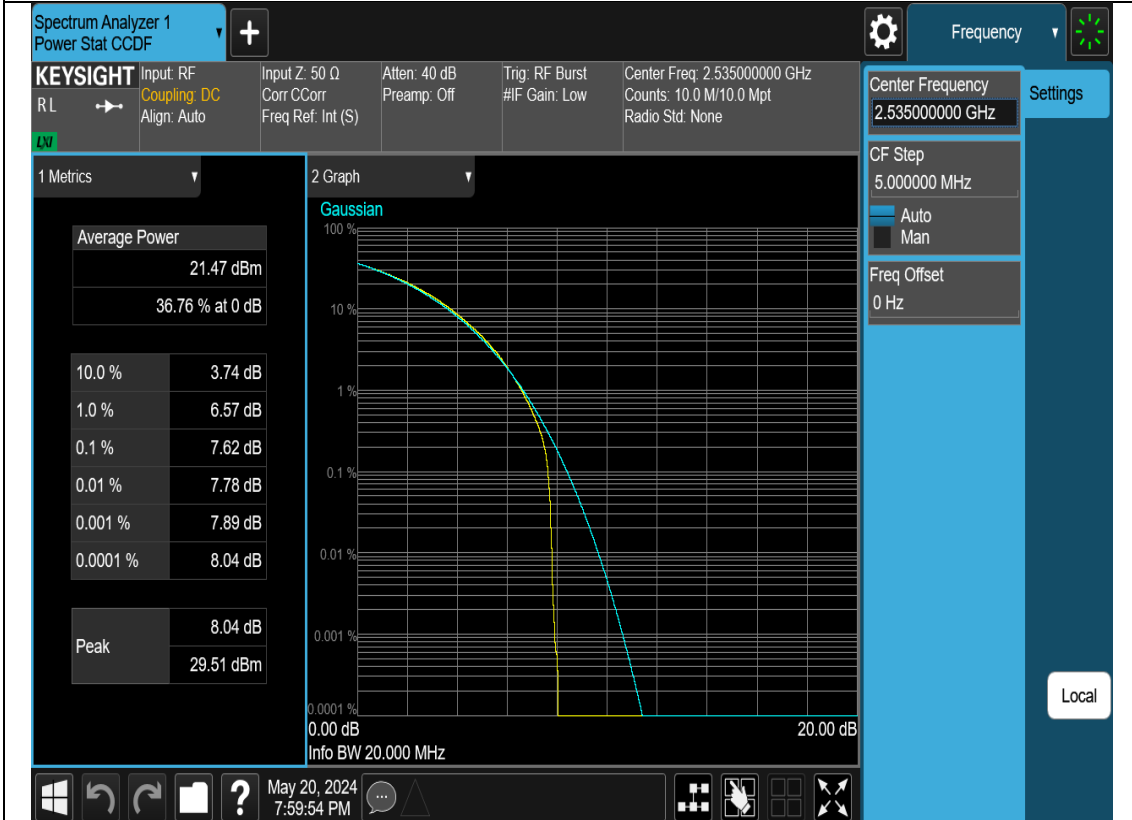
N7-20M-PAPR-M-DFT-s-OFDM-256QAM-Outer_Full



N7-20M-PAPR-M-CP-OFDM-QPSK-Outer_Full



N7-20M-PAPR-M-CP-OFDM-16QAM-Outer_Full



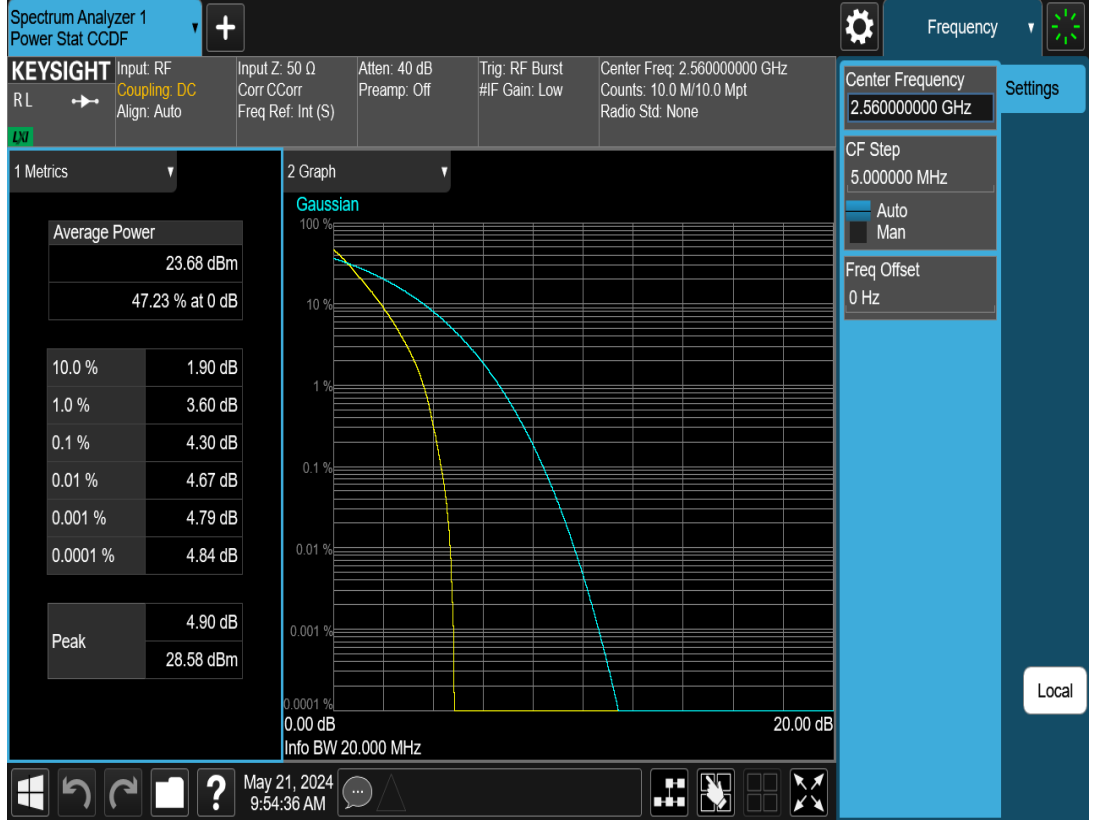
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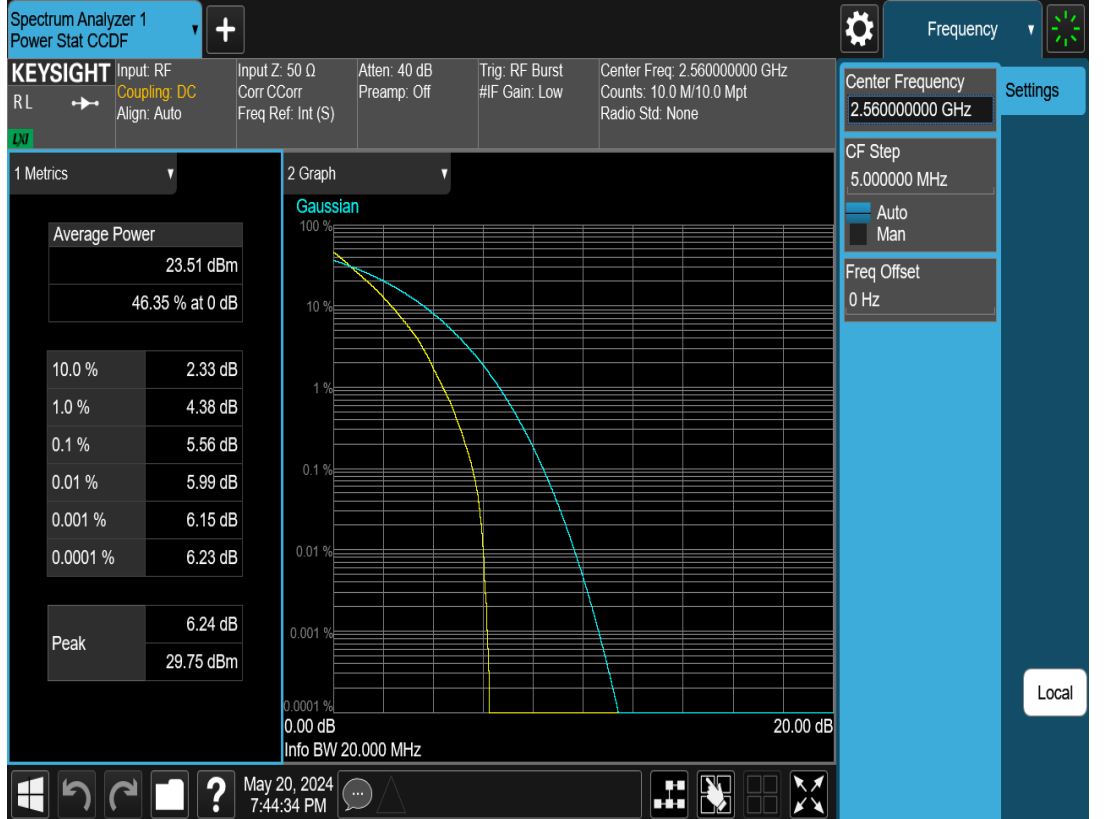
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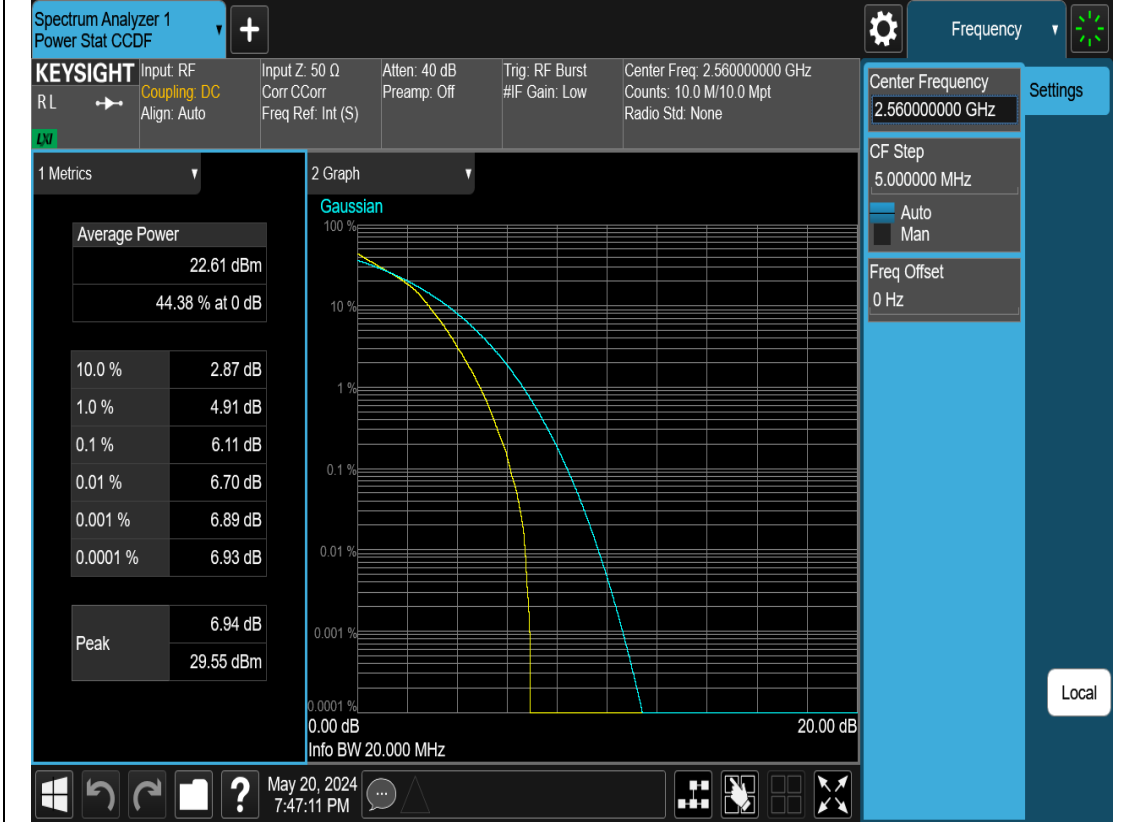
N7-20M-PAPR-H-DFT-s-OFDM-Pi2 BPSK-Outer_Full



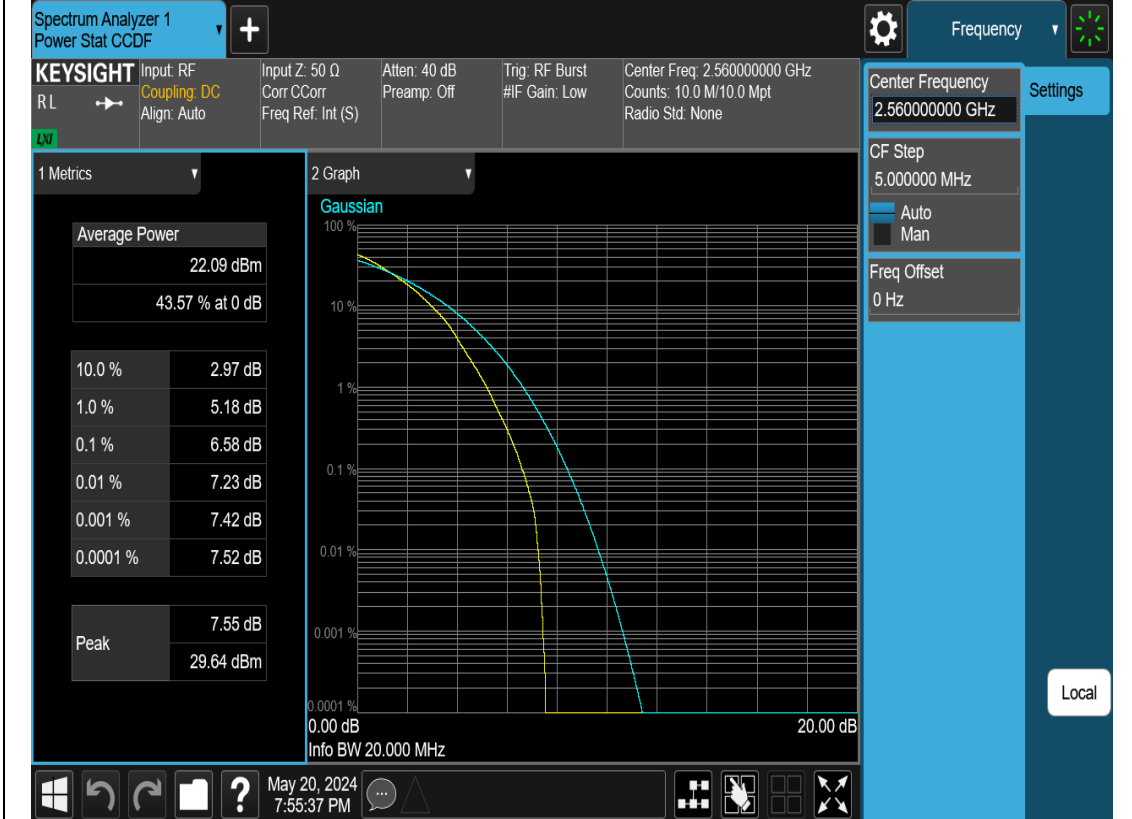
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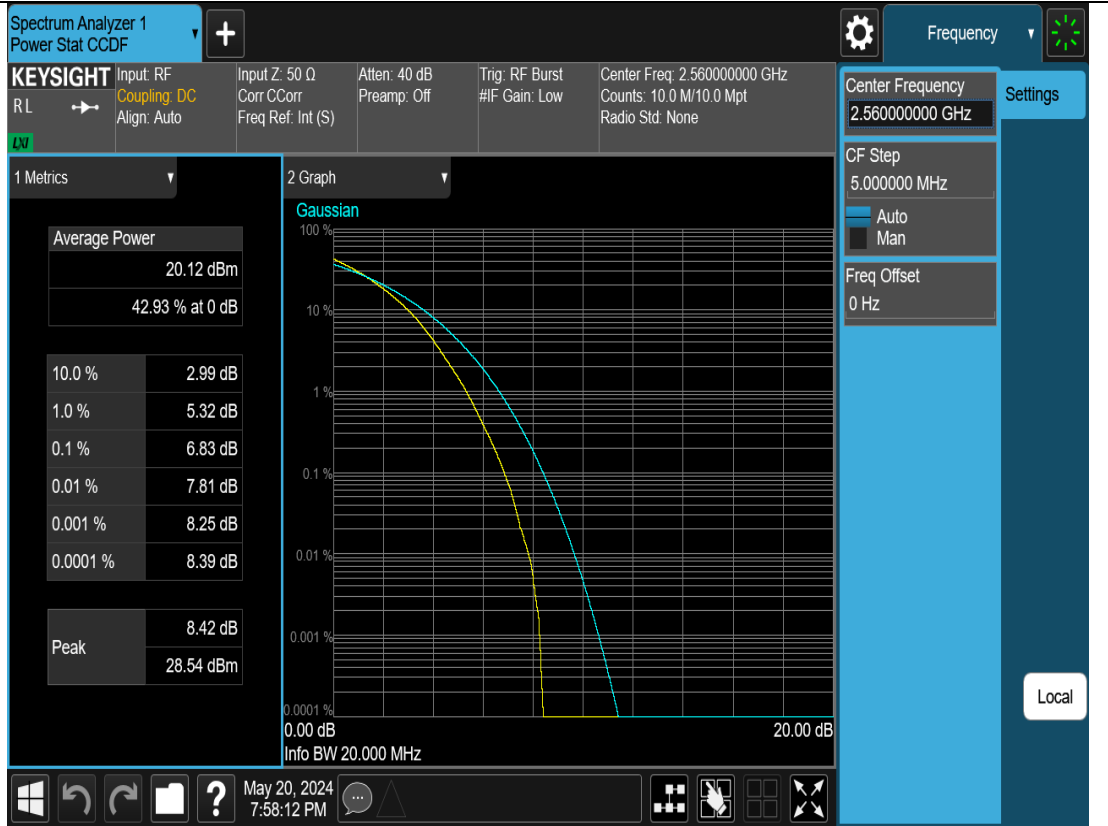
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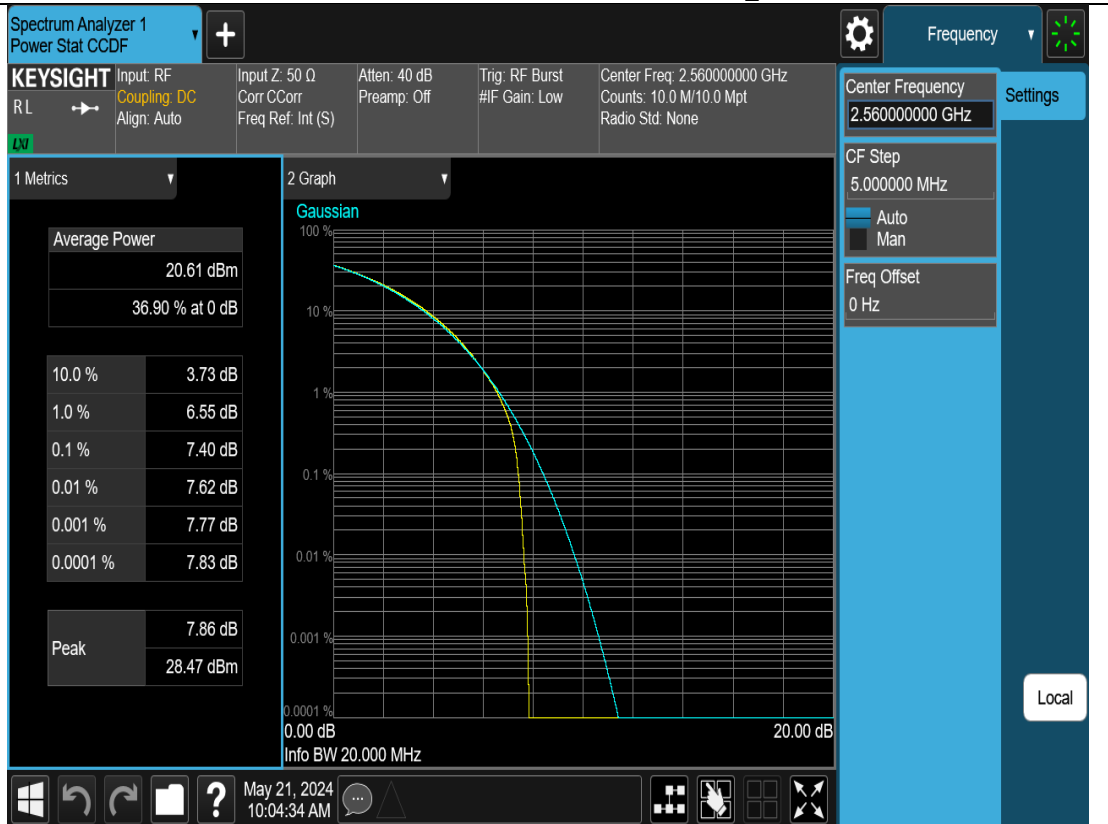
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N7-20M-PAPR-H-DFT-s-OFDM-256QAM-Outer_Full



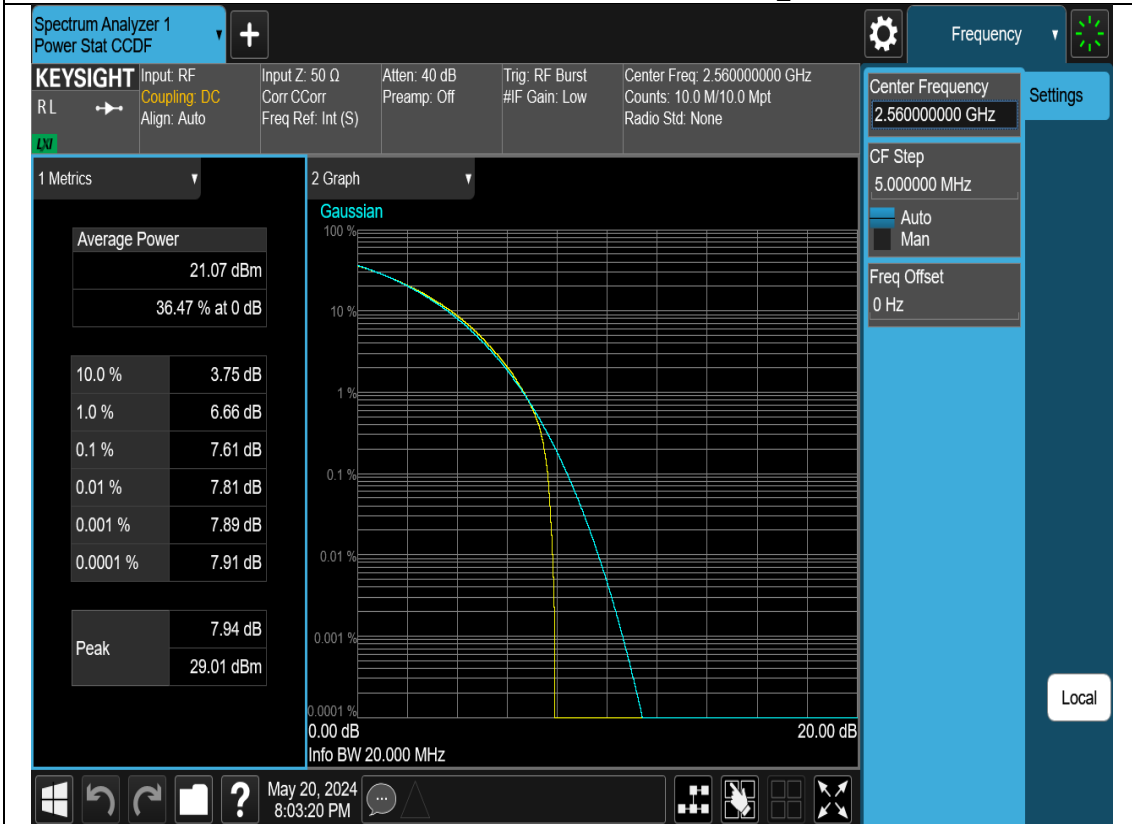
N7-20M-PAPR-H-CP-OFDM-QPSK-Outer_Full



N7-20M-PAPR-H-CP-OFDM-16QAM-Outer_Full



N7-20M-PAPR-H-CP-OFDM-64QAM-Outer_Full



N7-20M-PAPR-H-CP-OFDM-256QAM-Outer_Full

Spectrum Analyzer 1
Power Stat CCDF

KEYSIGHT Input RF
RL Coupling: DC
Align: Auto

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

Atten: 40 dB
Preamp: Off

Trig: RF Burst
#F Gain: Low

Center Freq: 2.560000000 GHz
Counts: 10.0 M/10.0 Mpt
Radio Std: None

Center Frequency
2.560000000 GHz

CF Step
5.000000 MHz

Auto
Man

Freq Offset
0 Hz

Settings

1 Metrics

Average Power

18.05 dBm
36.00 % at 0 dB

10.0 %	3.69 dB
1.0 %	6.83 dB
0.1 %	8.70 dB
0.01 %	9.81 dB
0.001 %	10.48 dB
0.0001 %	10.64 dB

Peak

10.71 dB
28.76 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

Local

May 20, 2024
8:06:16 PM

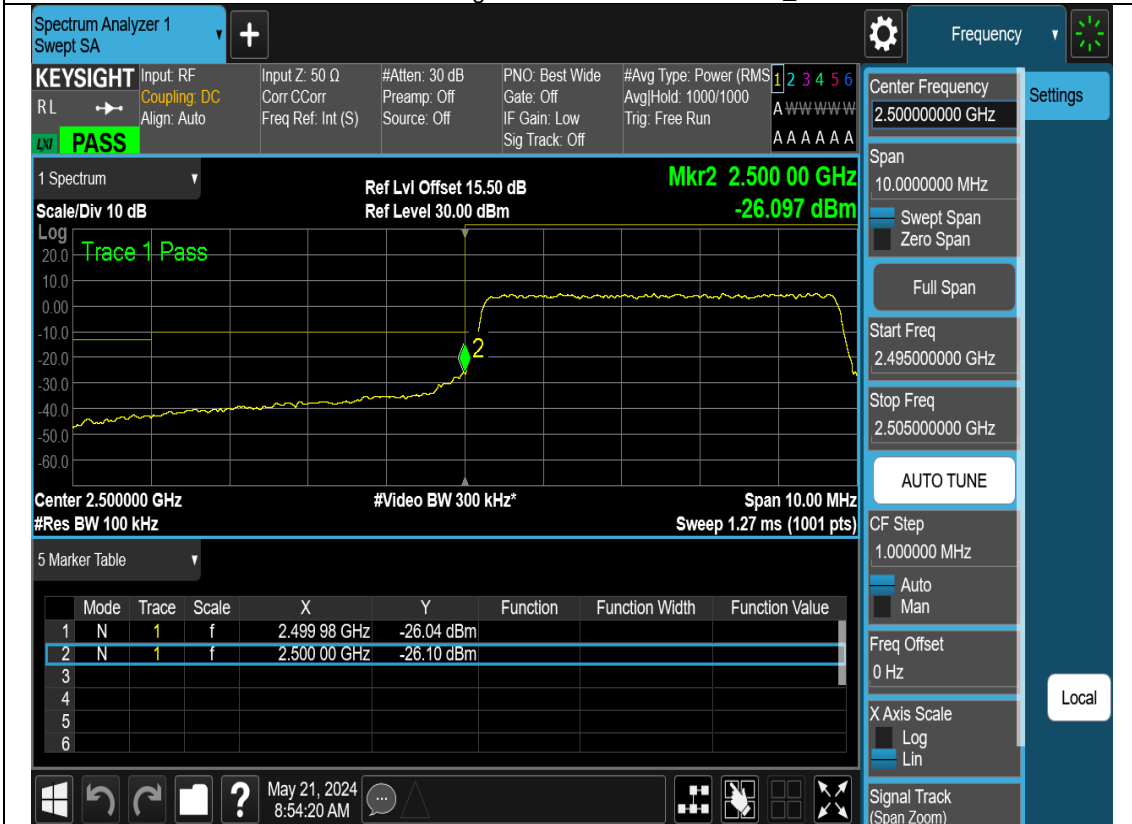
Bandedge test graph



N7-5M-Bandedge-L-DFT-s-OFDM-Pi2 BPSK-1RB0



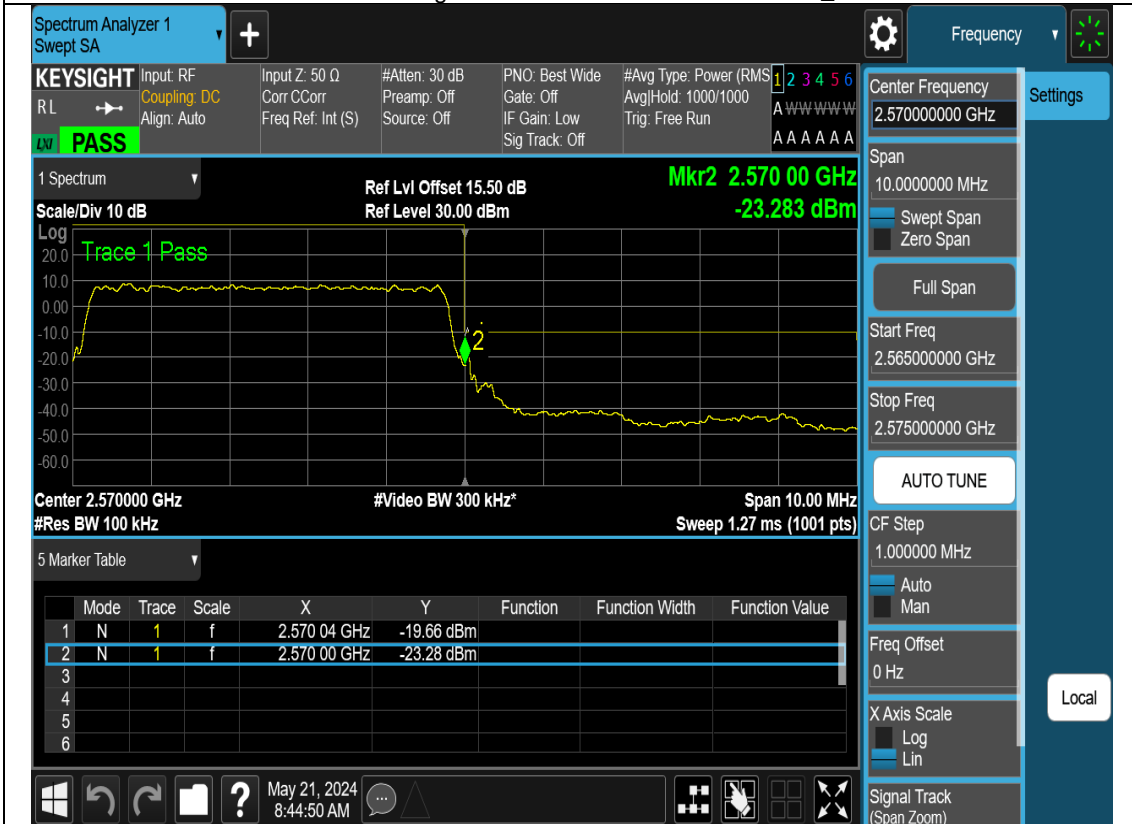
N7-5M-Bandedge-L-CP-OFDM-QPSK-Outer_Full



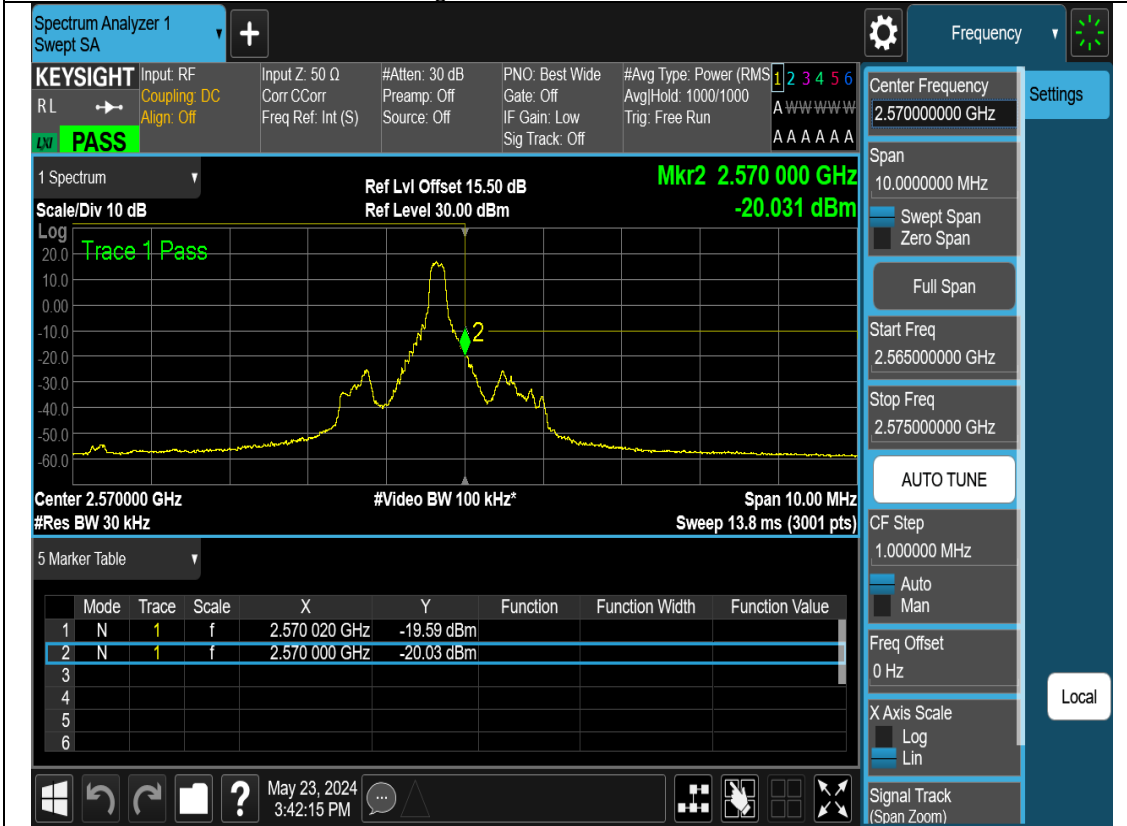
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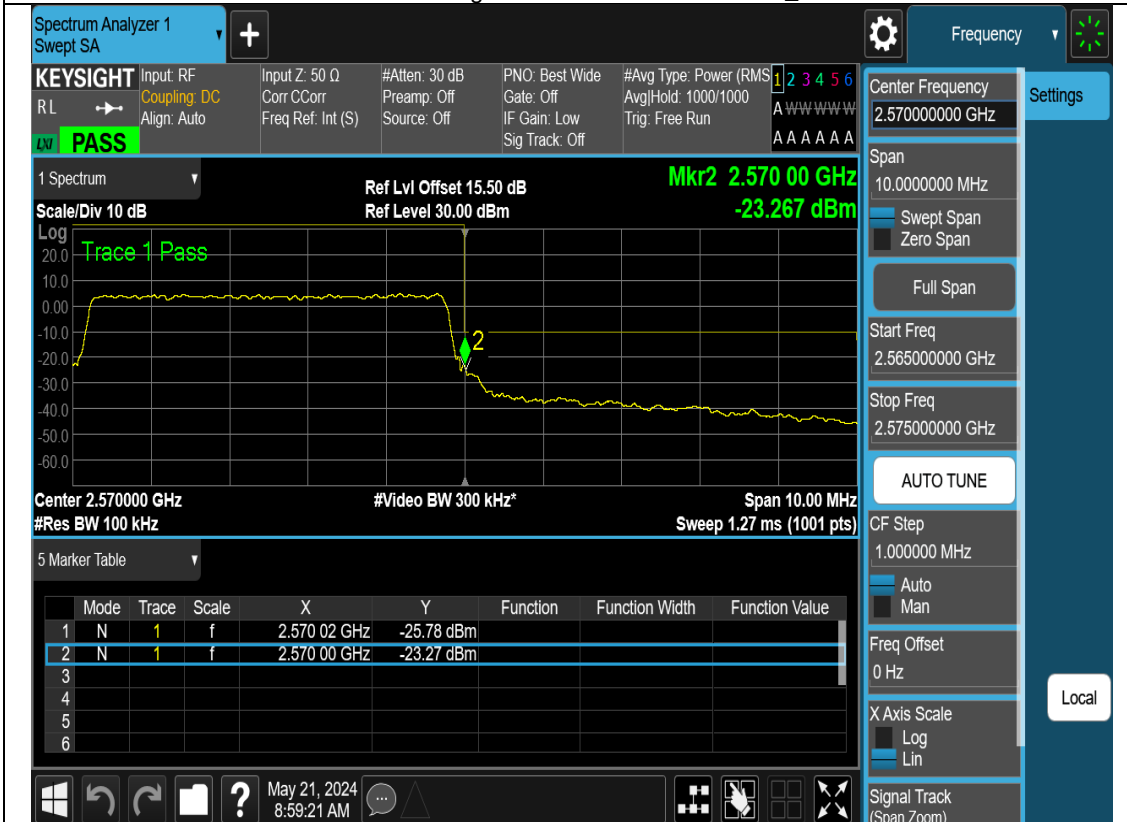
N7-5M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-Outer_Full



N7-5M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-1RB_MAX



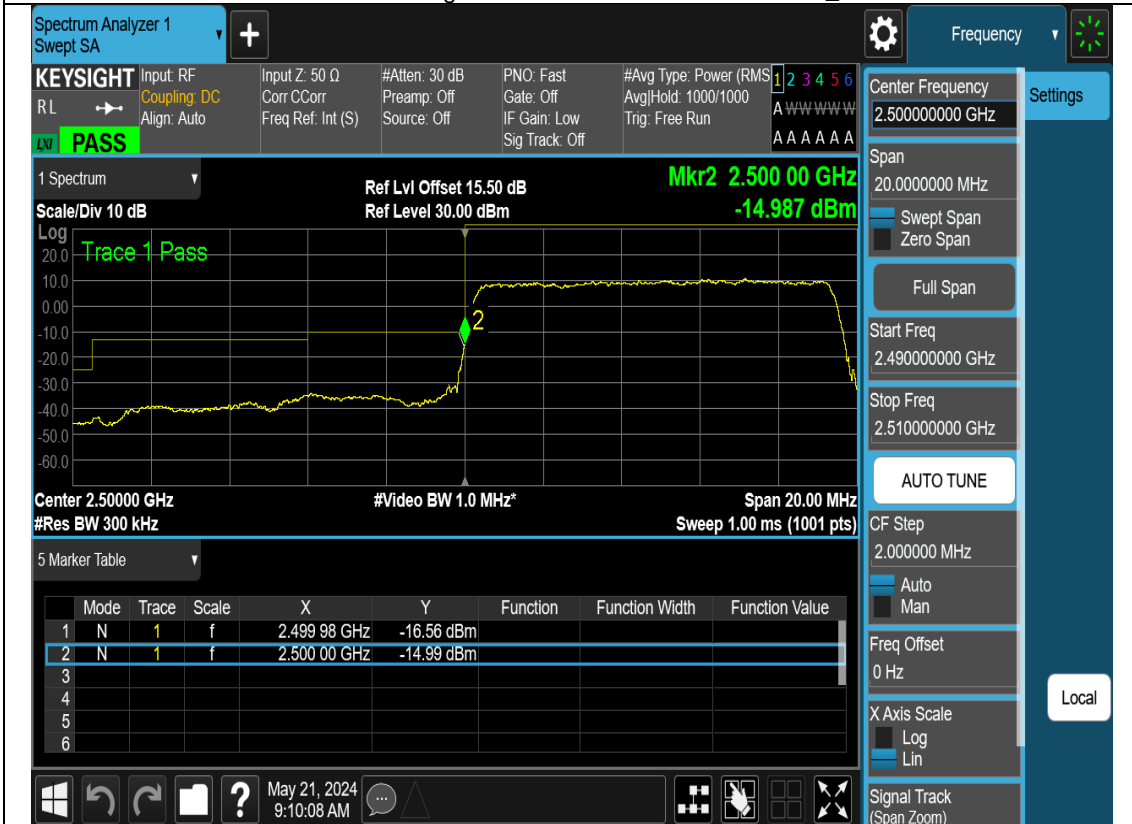
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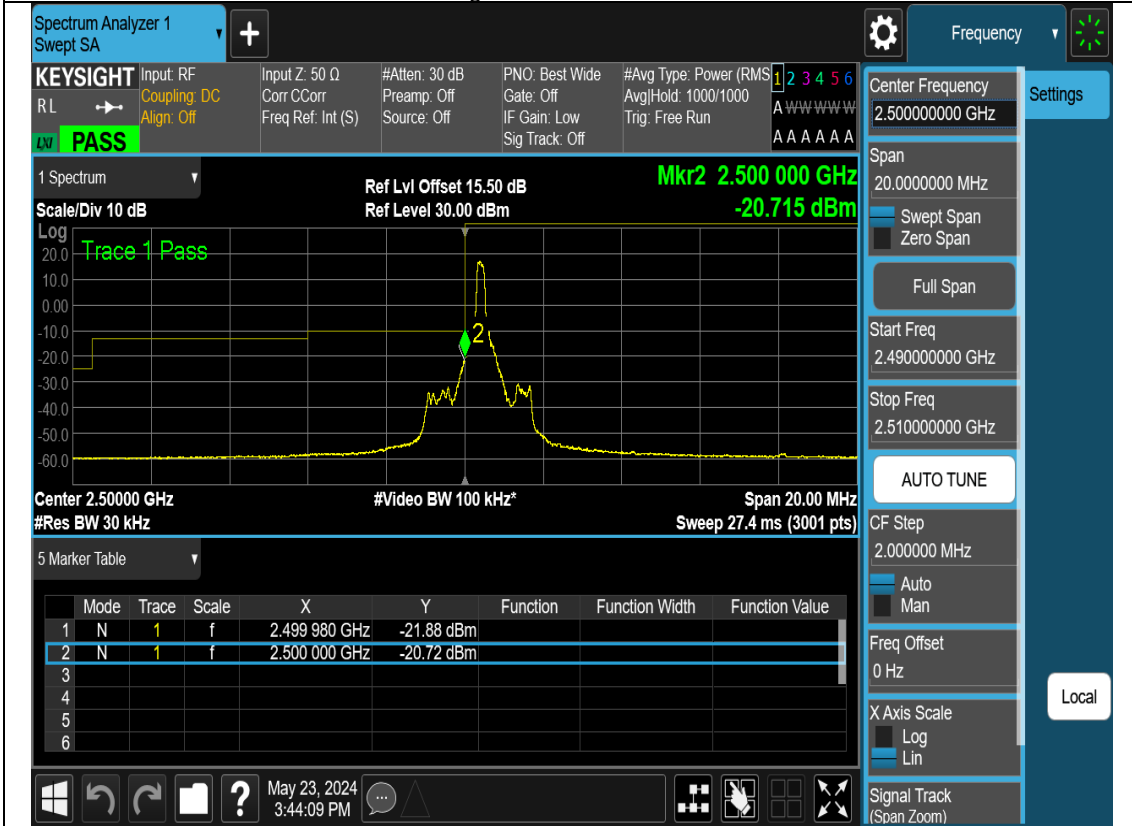
N7-5M-Bandedge-H-CP-OFDM-QPSK-1RB_MAX



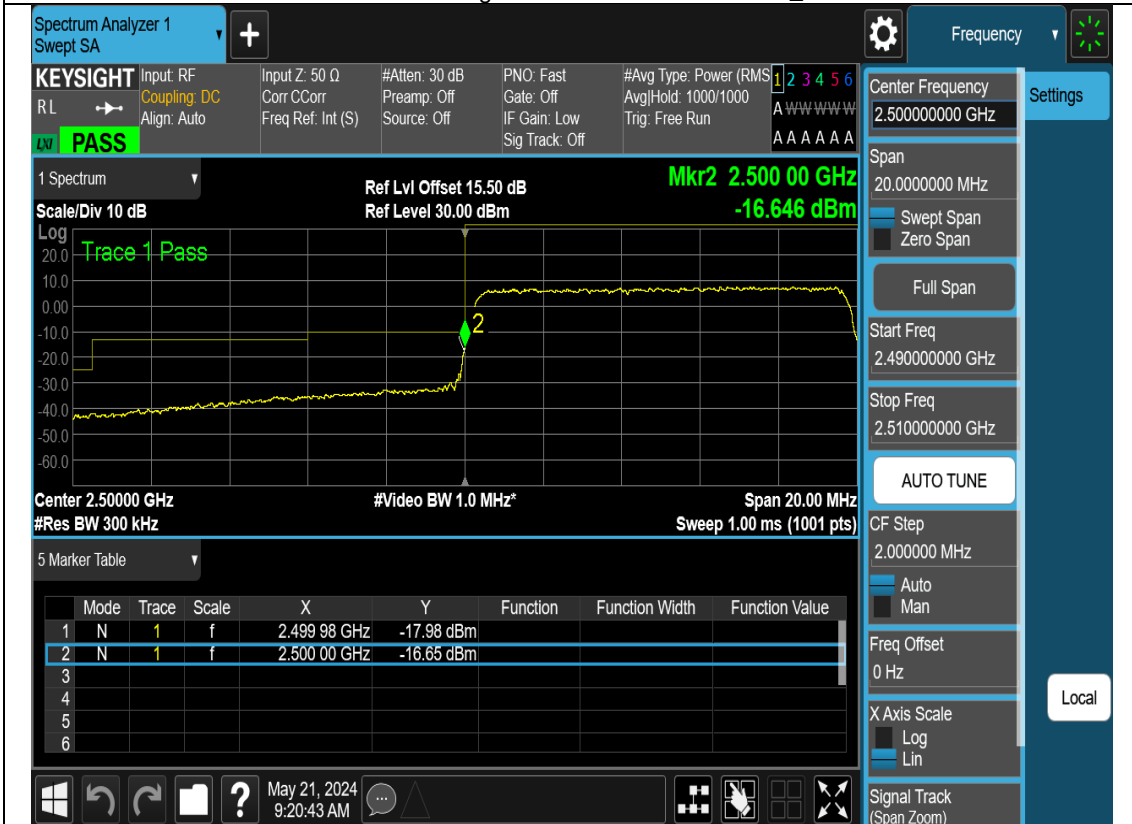
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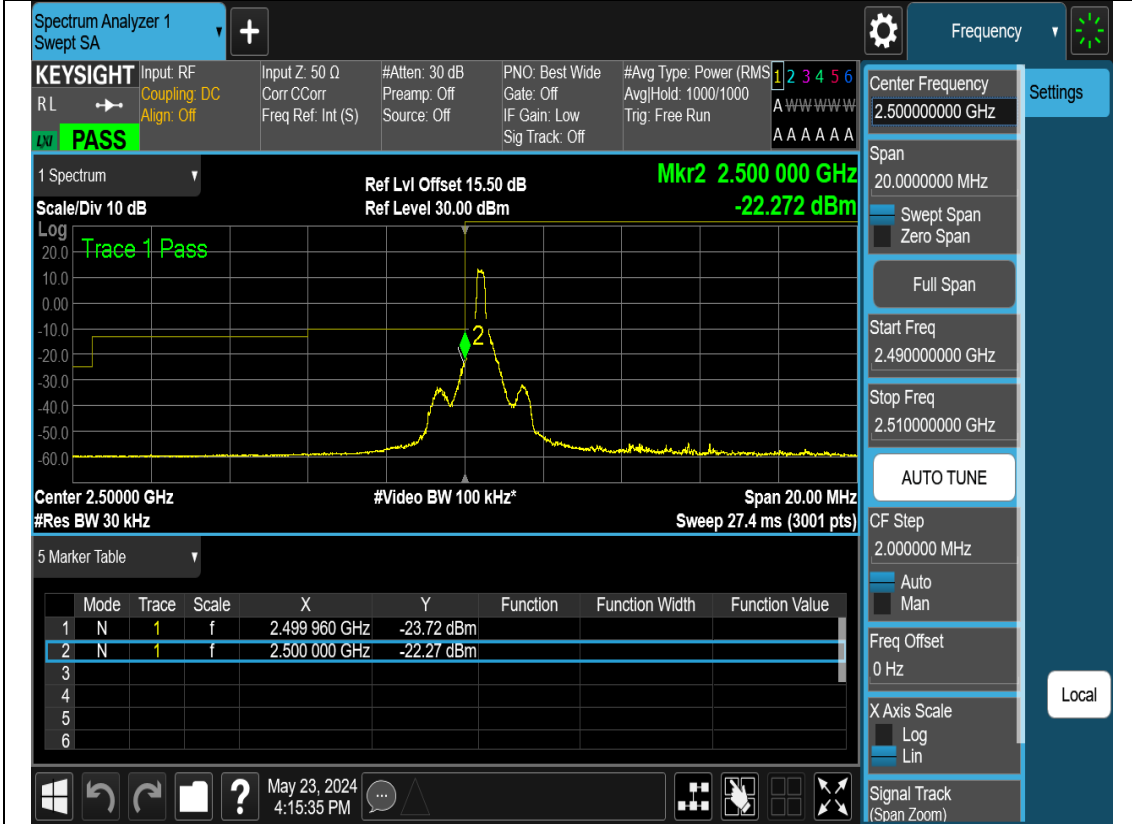
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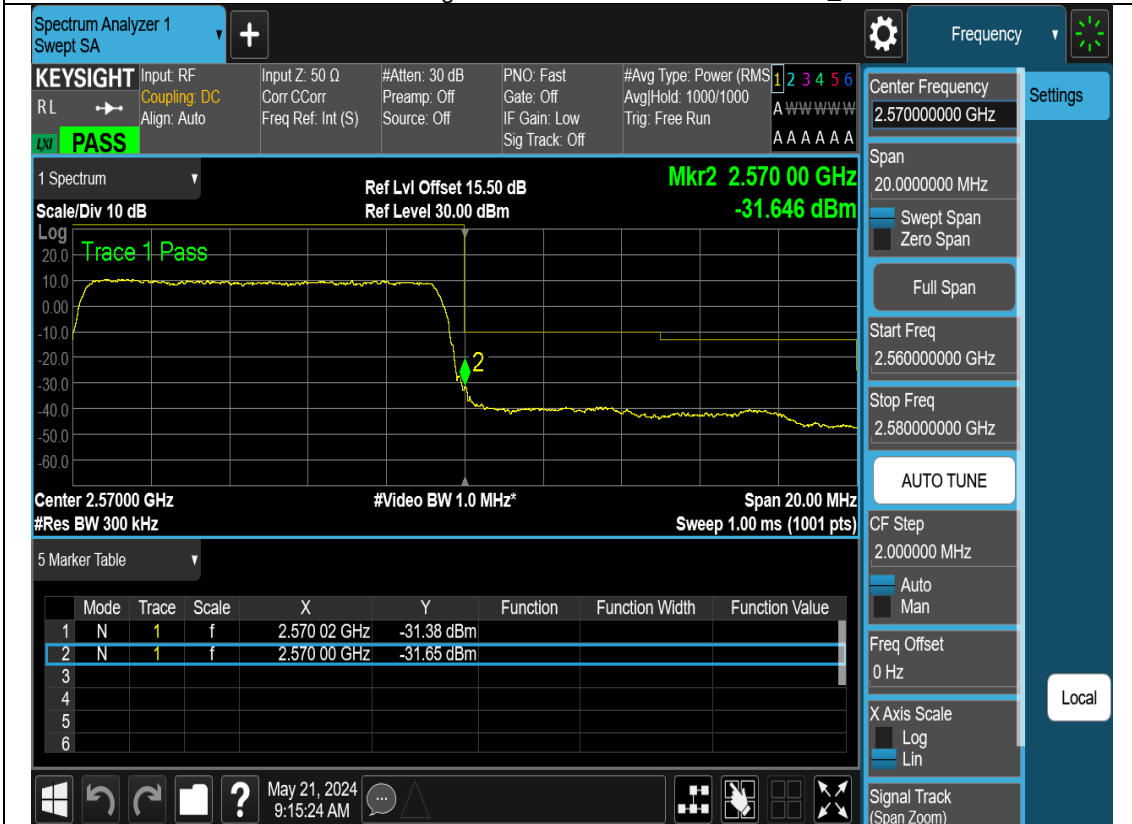
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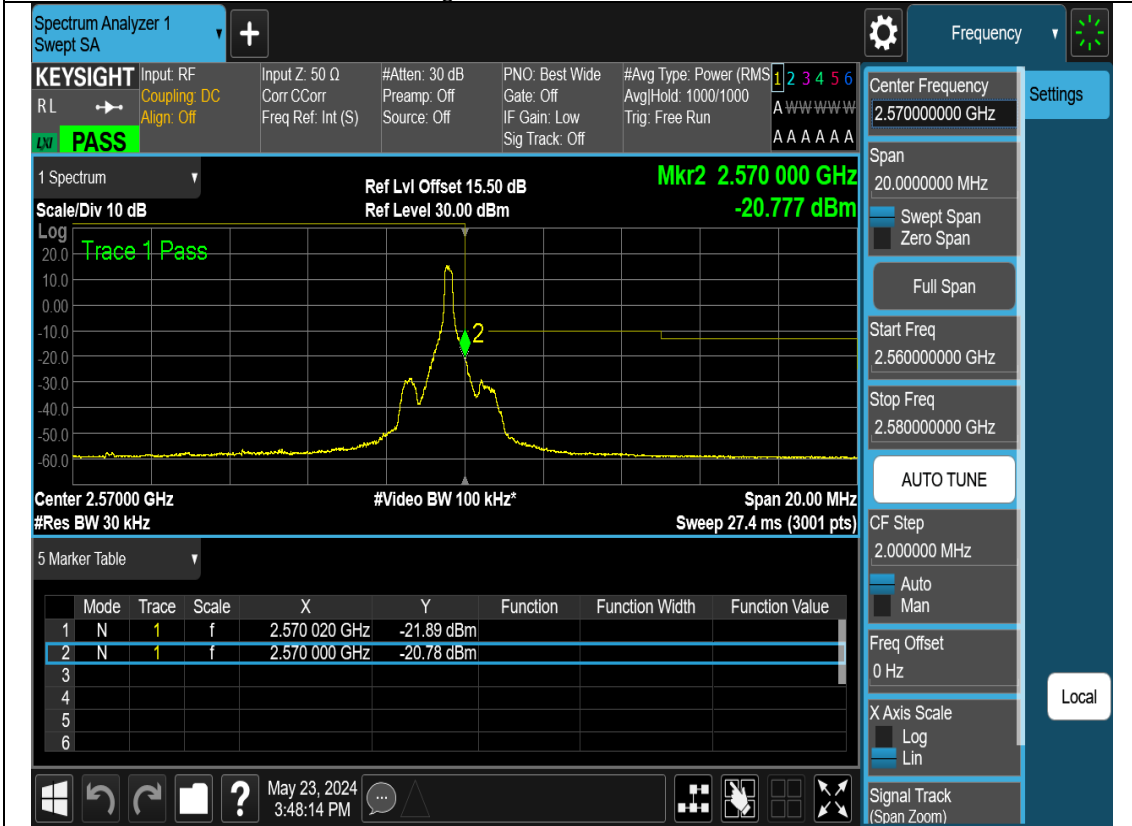
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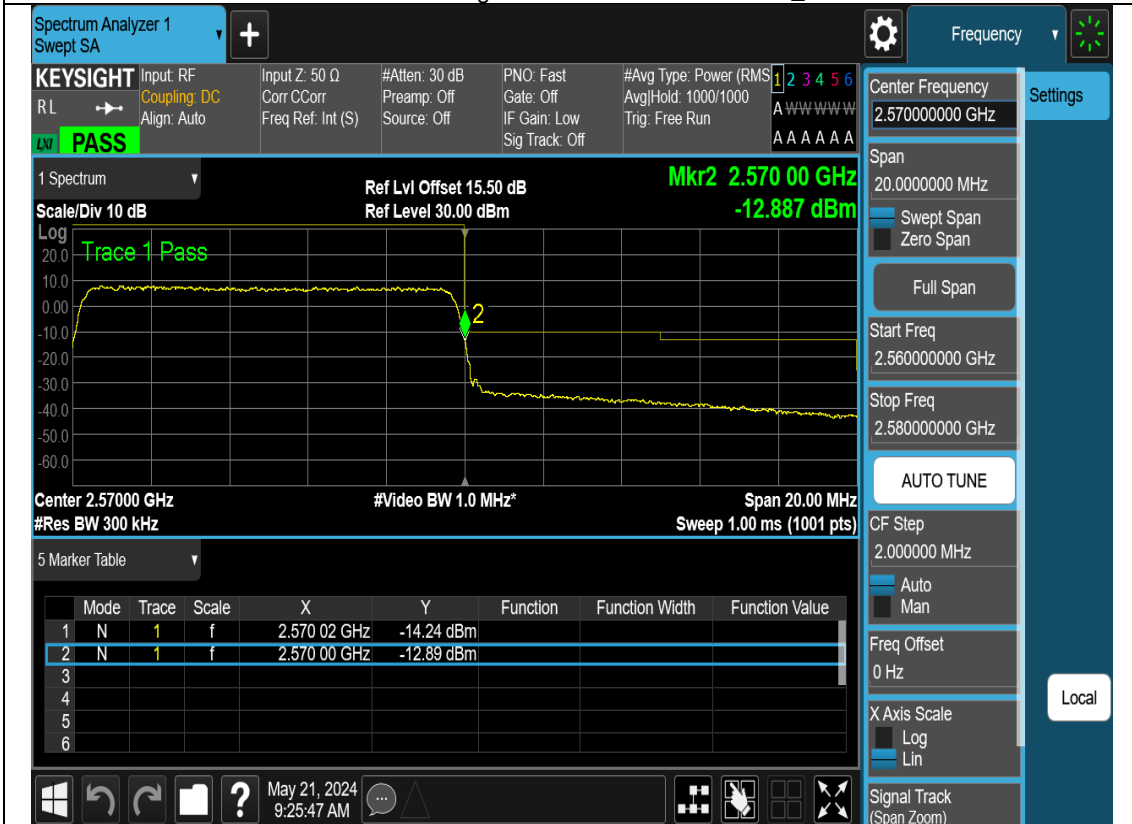
N7-10M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-Outer_Full



N7-10M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-1RB_MAX



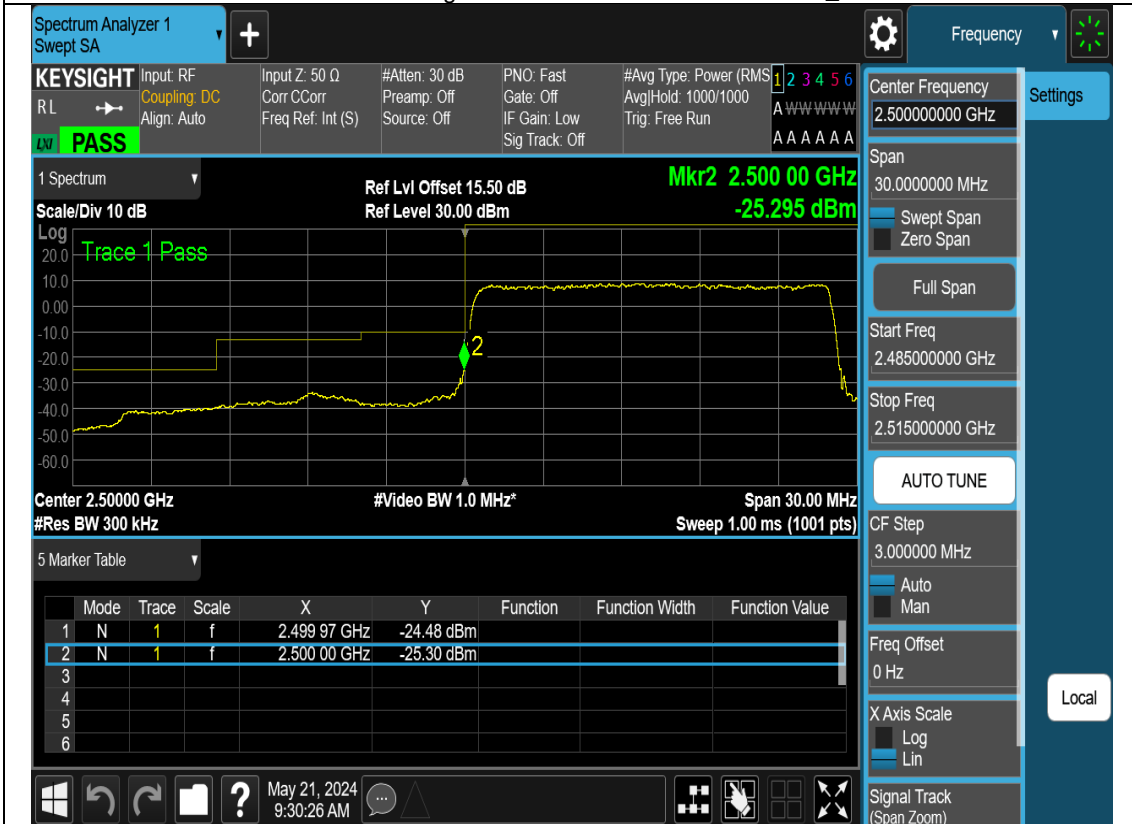
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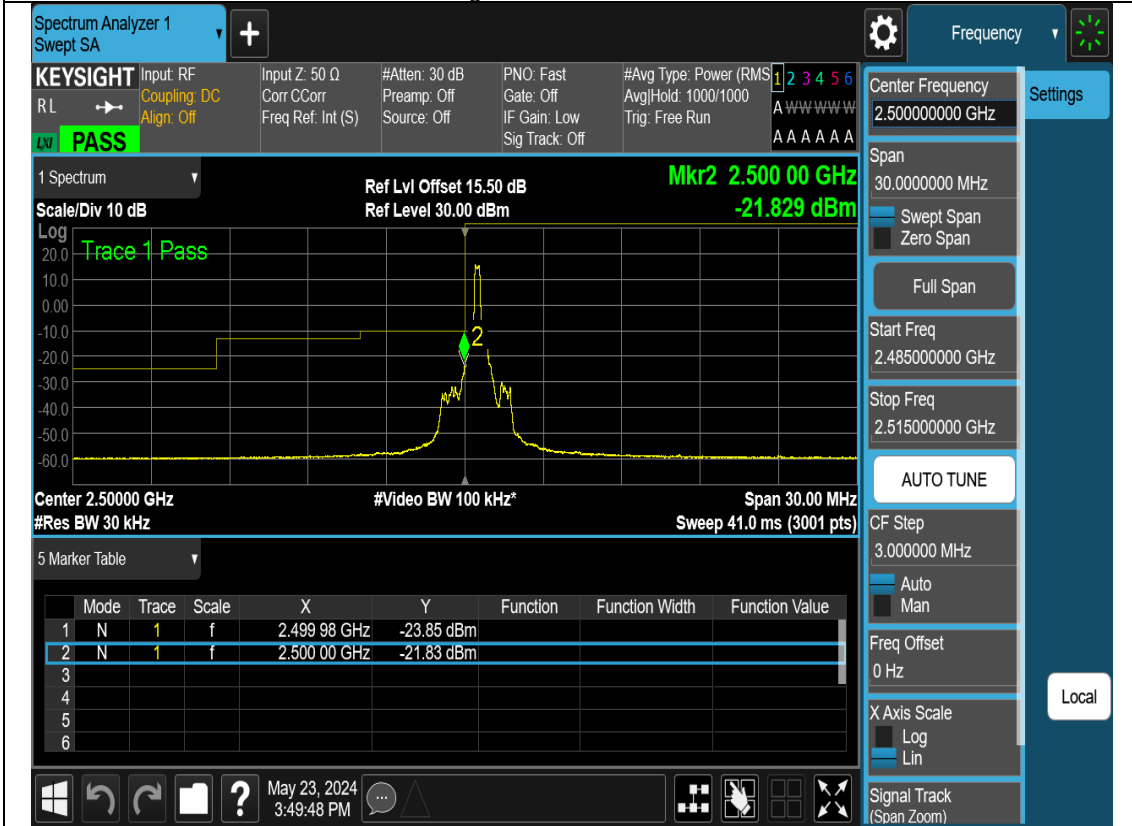
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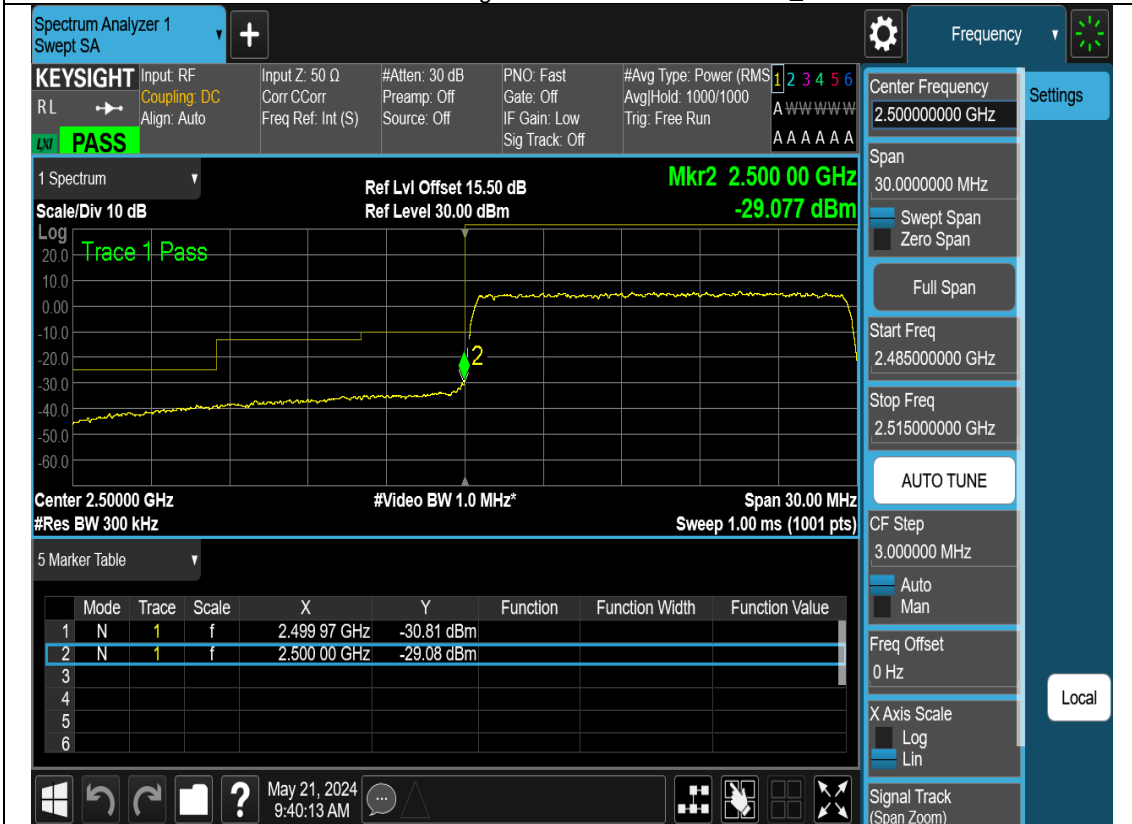
N7-15M-Bandedge-L-DFT-s-OFDM-Pi2 BPSK-Outer_Full



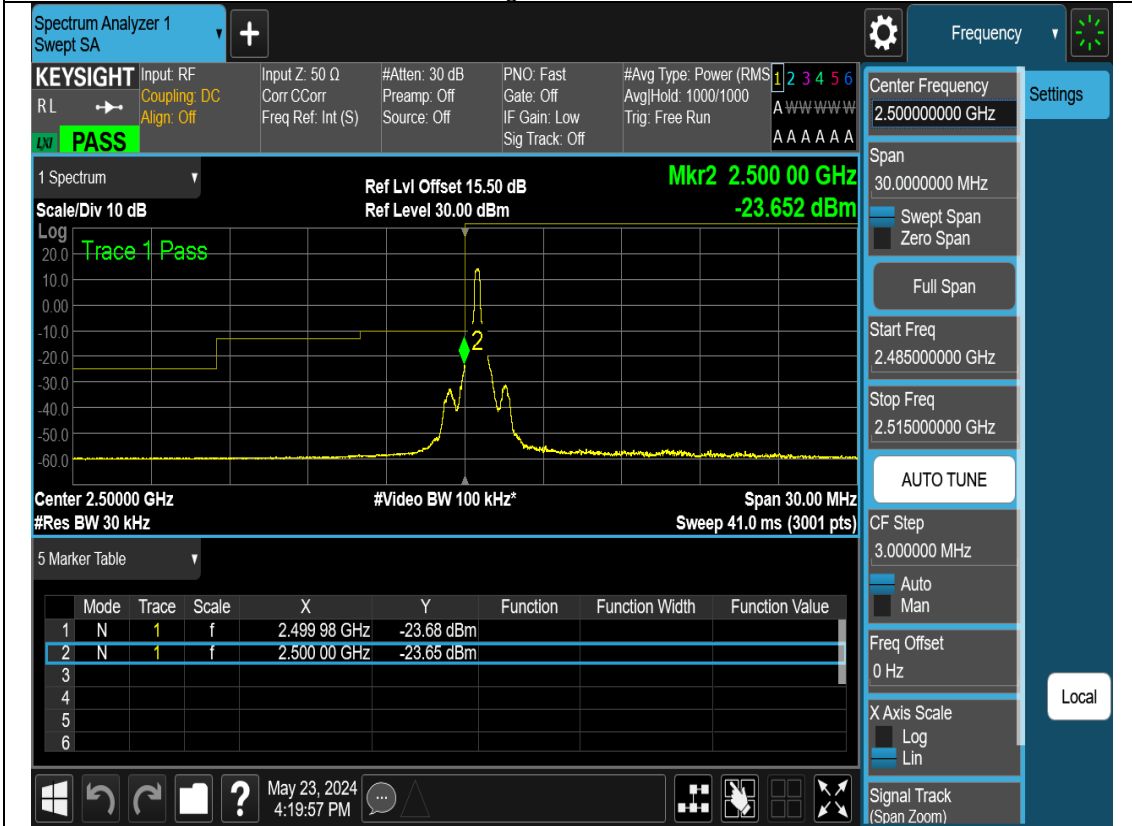
N7-15M-Bandedge-L-DFT-s-OFDM-Pi2 BPSK-1RB0



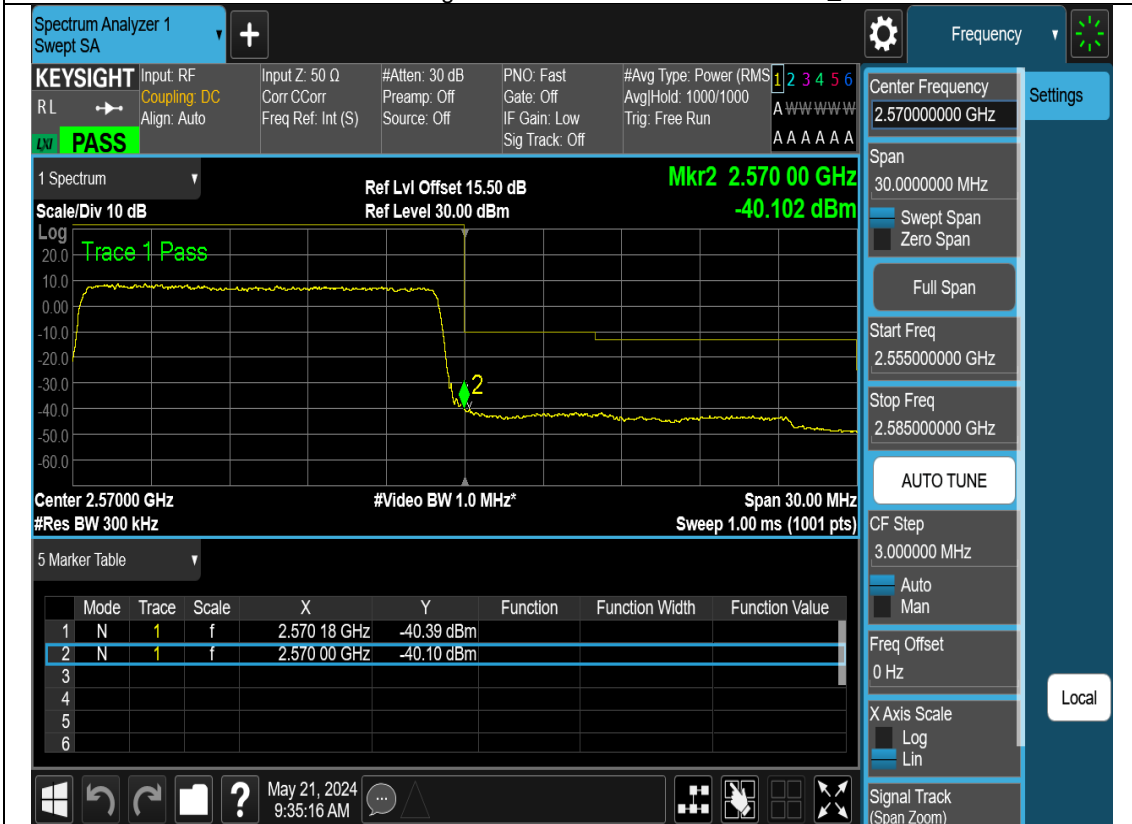
N7-15M-Bandedge-L-CP-OFDM-QPSK-Outer_Full



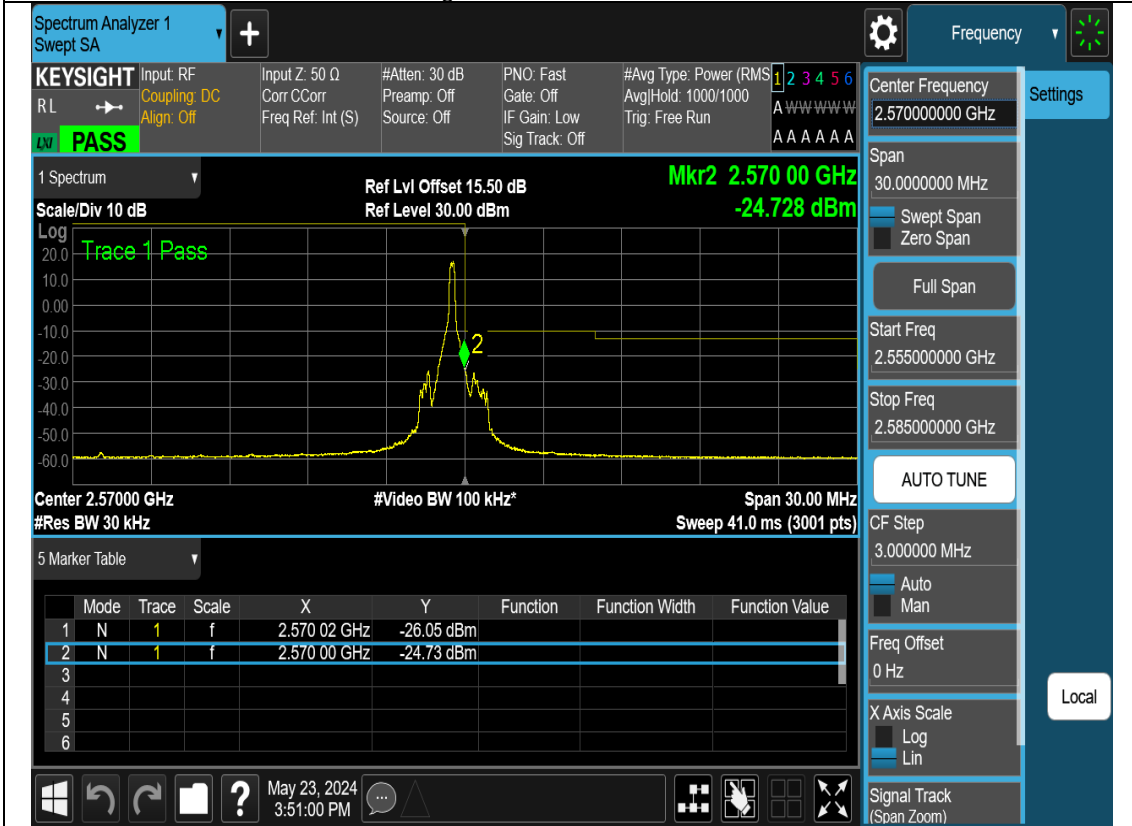
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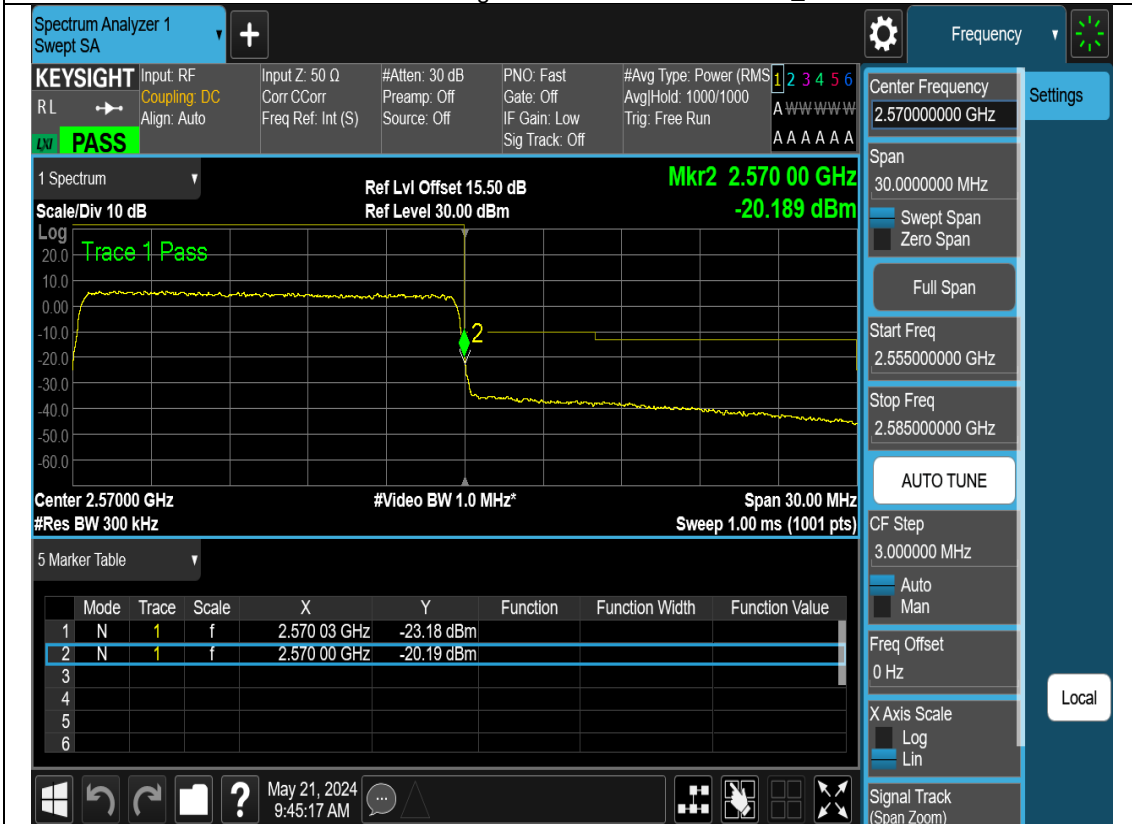
N7-15M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-Outer_Full



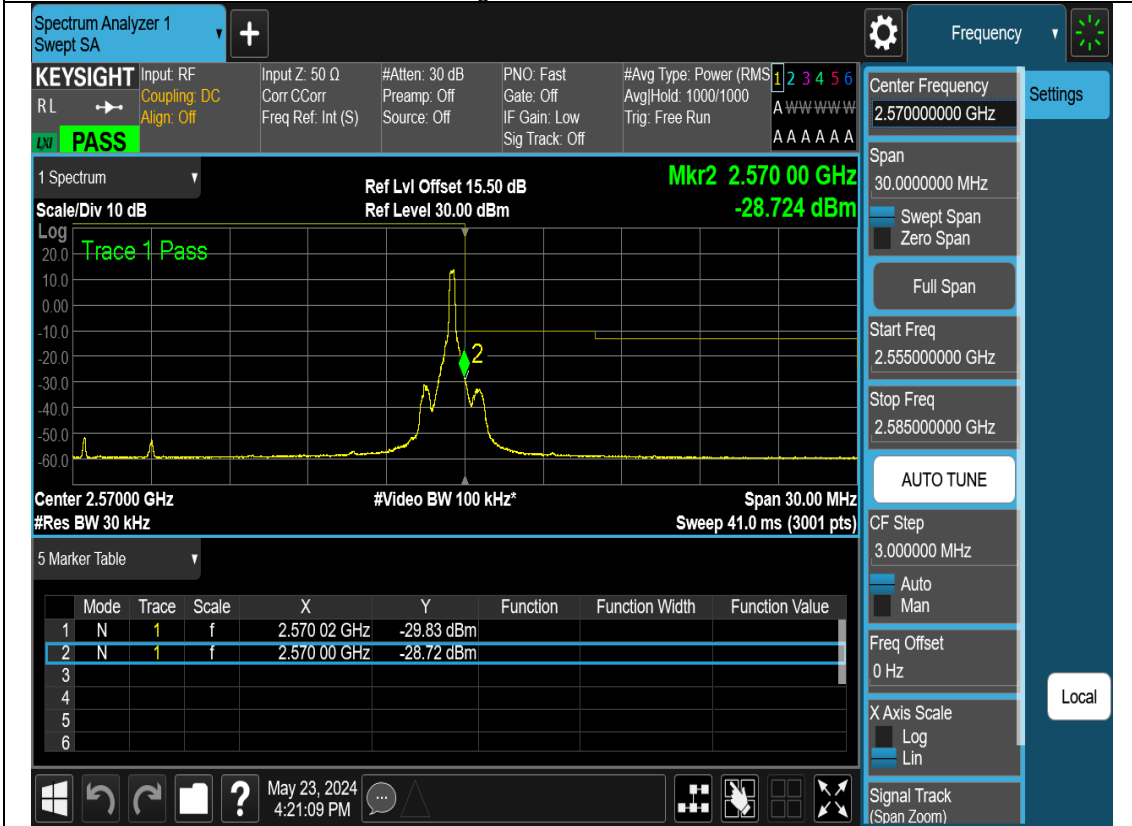
N7-15M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-1RB_MAX



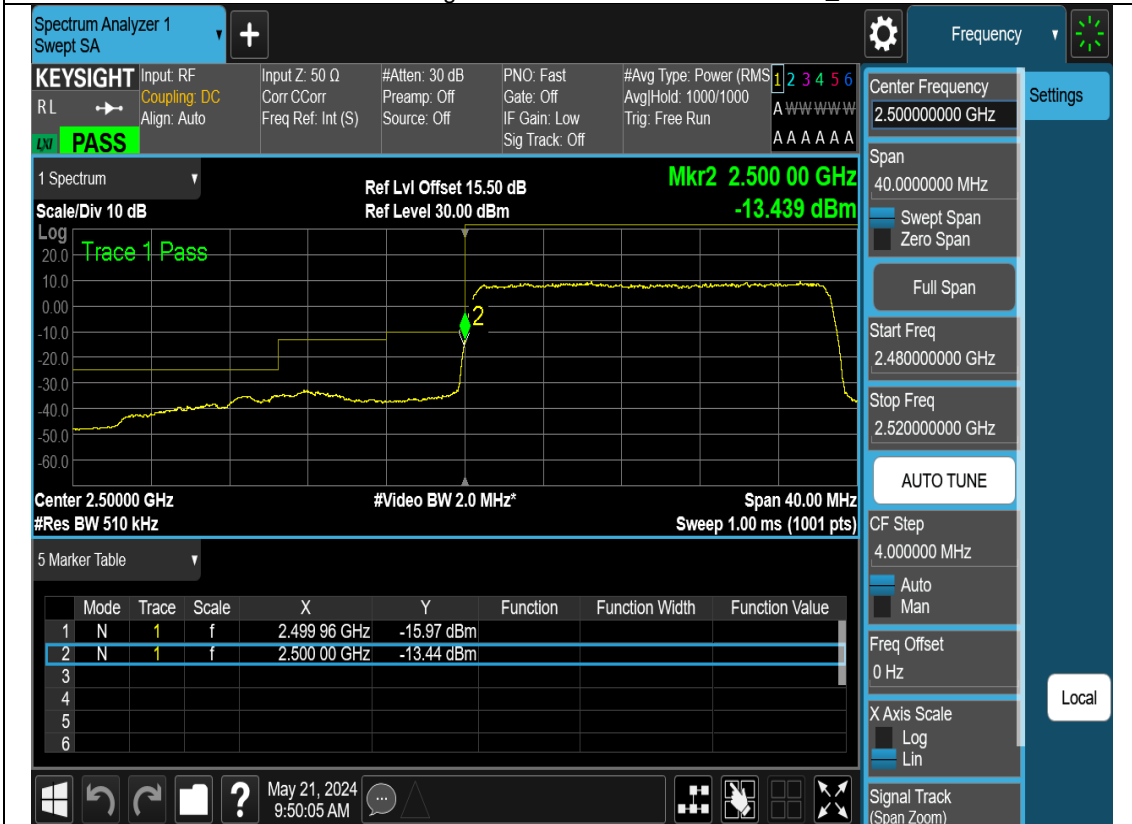
N7-15M-Bandedge-H-CP-OFDM-QPSK-Outer_Full



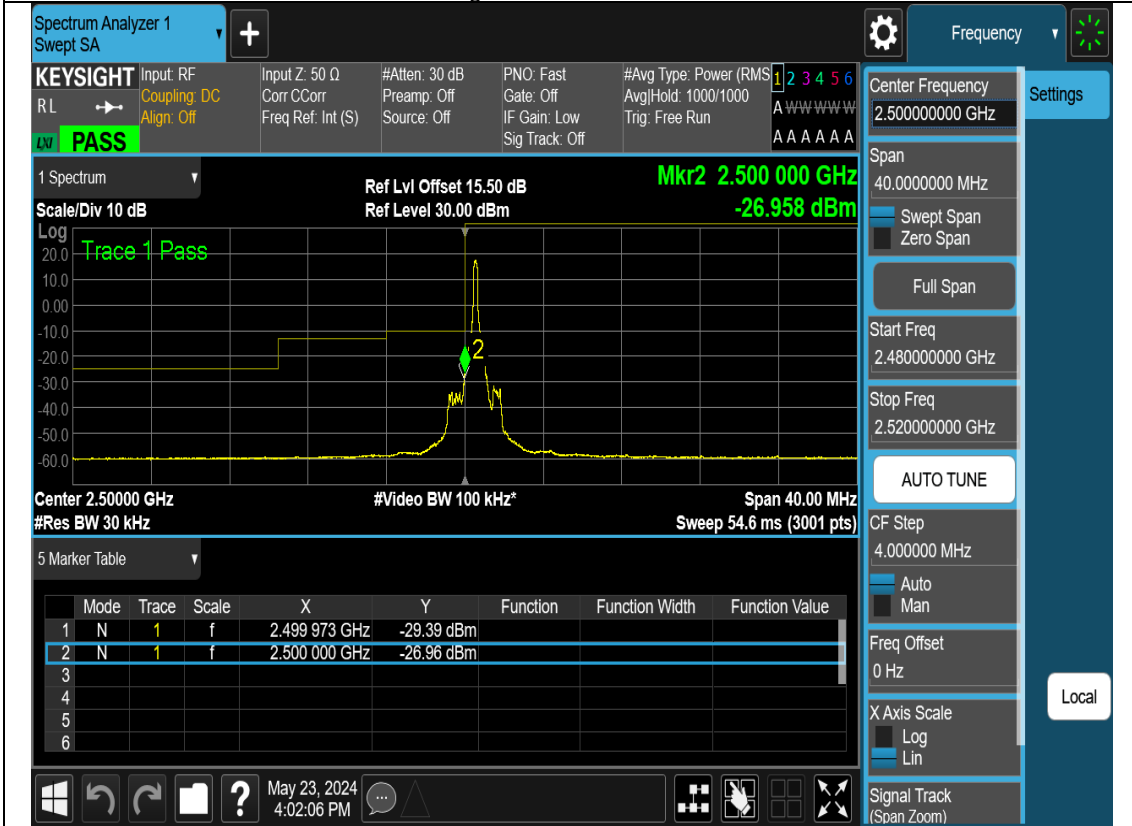
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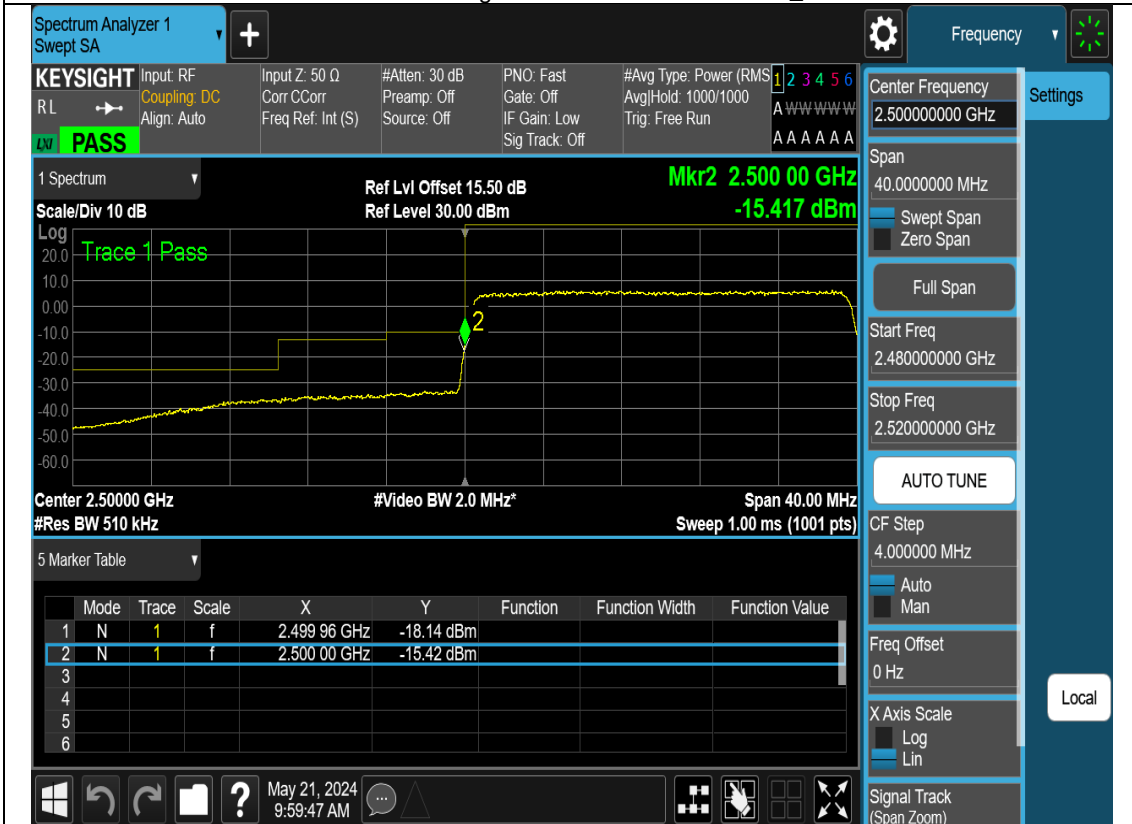
N7-20M-Bandedge-L-DFT-s-OFDM-Pi2 BPSK-Outer_Full



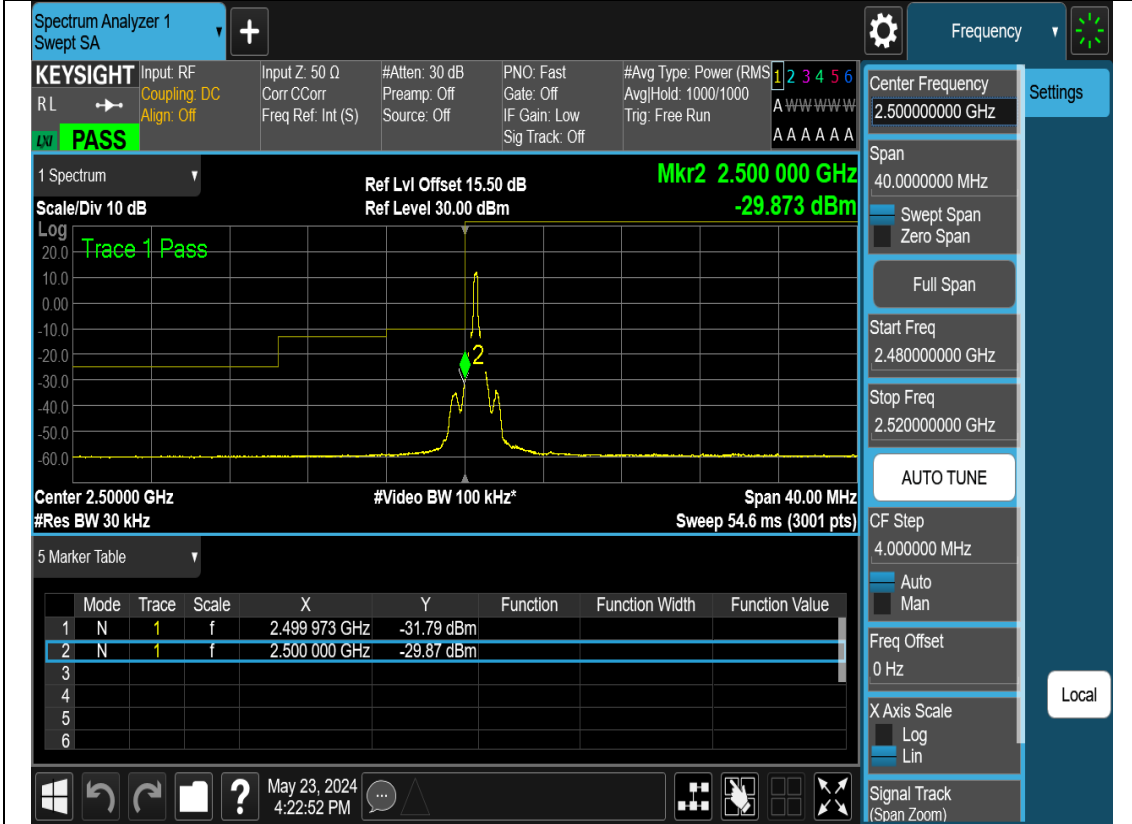
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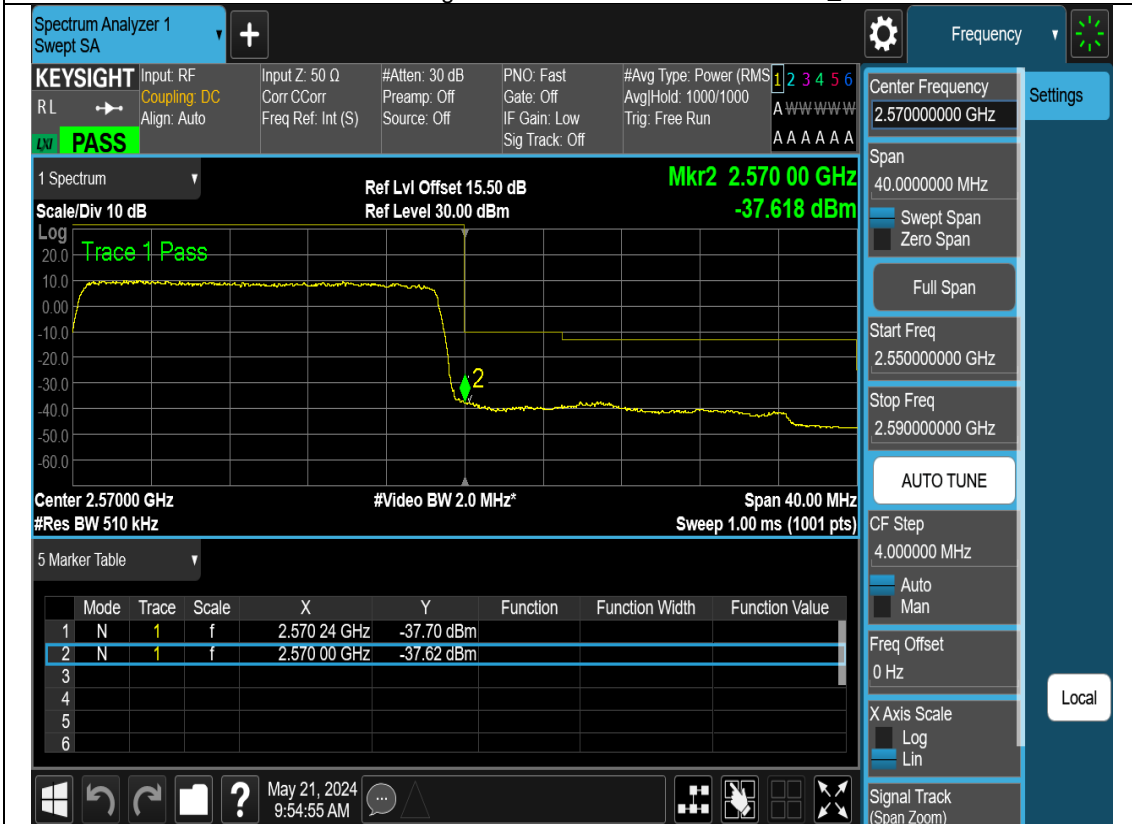
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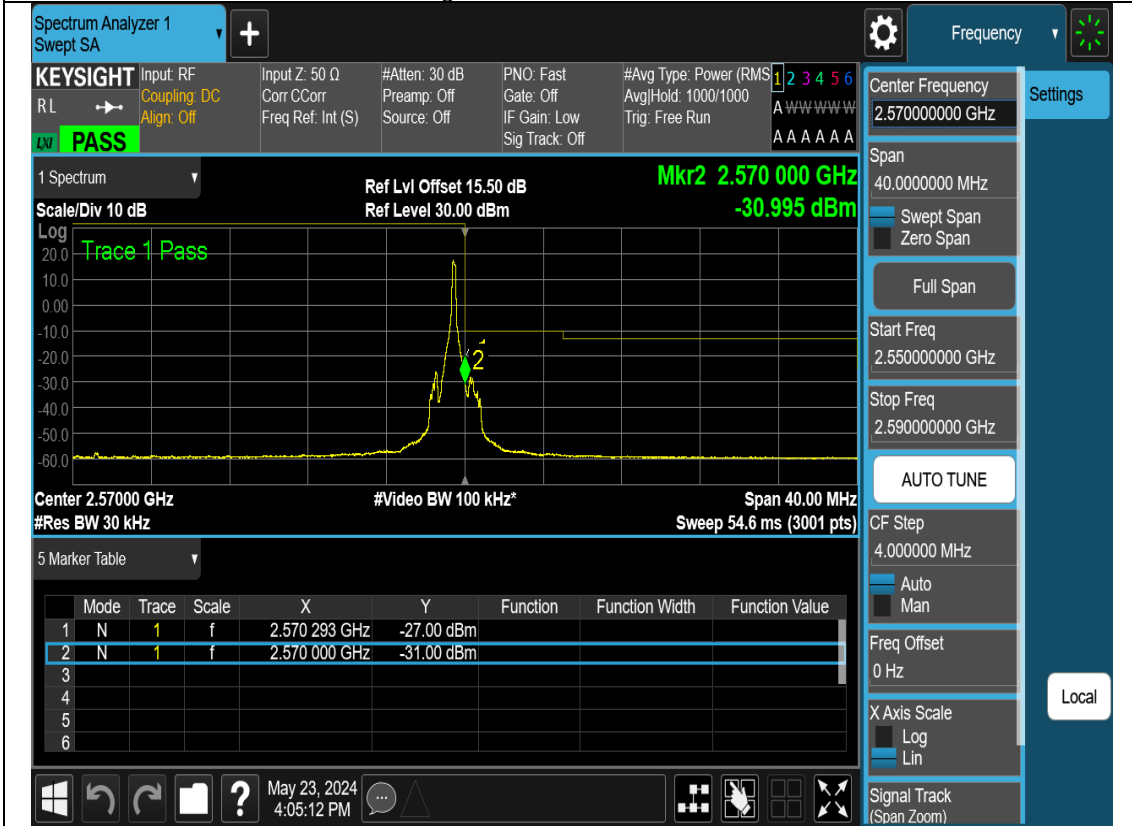
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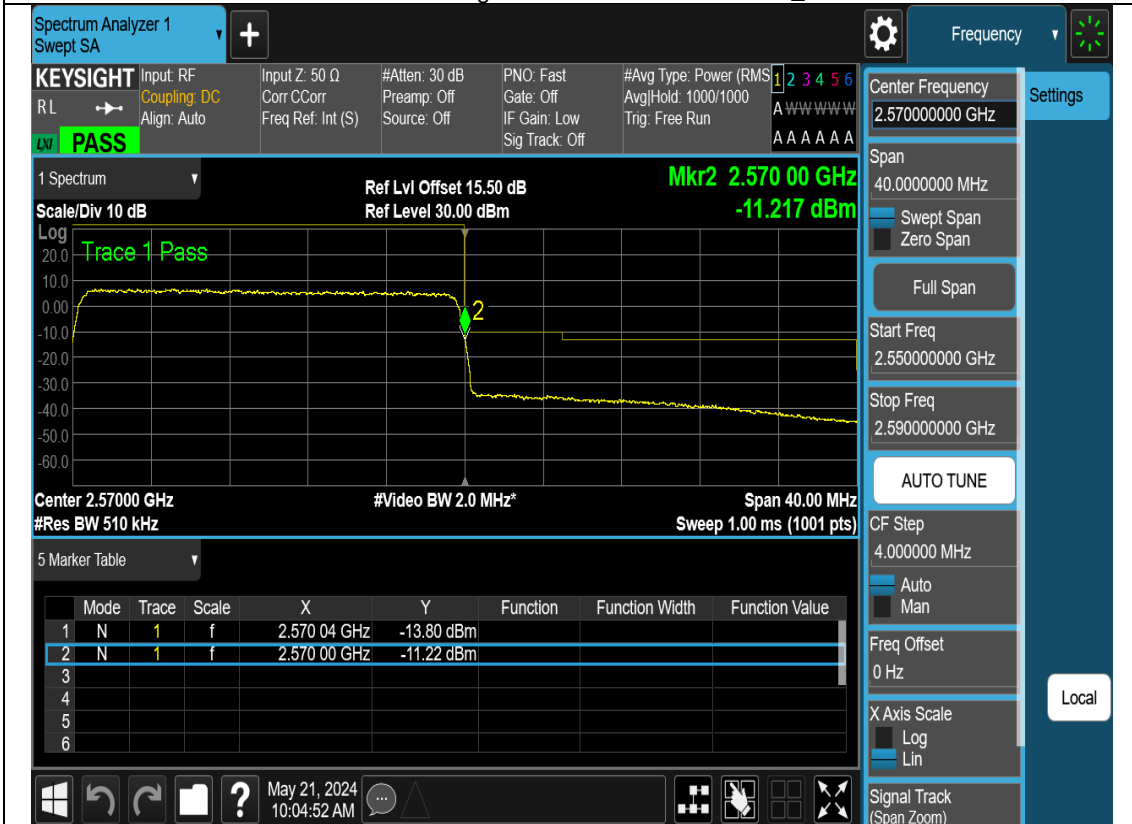
N7-20M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-Outer_Full



N7-20M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-1RB_MAX



N7-20M-Bandedge-H-CP-OFDM-QPSK-Outer_Full



N7-20M-Bandedge-H-CP-OFDM-QPSK-1RB_MAX

Spectrum Analyzer 1
Swept SA

KEYSIGHT Input RF
 RL → Coupling: DC
 Align: Off

Input Z: 50 Ω #Atten: 30 dB PNO: Fast #Avg Type: Power (RMS) 1 2 3 4 5 6
 Corr: C Corr Preamp: Off Gate: Off Avg/Hold: 1000/1000
 Freq Ref: Int (S) Source: Off IF Gain: Low Trig: Free Run
 Sig Track: Off

1 Spectrum Ref Lvl Offset 15.50 dB **Mkr2 2.570 000 GHz**
 Scale/Div 10 dB Ref Level 30.00 dBm **-29.581 dBm**

Log Trace 1 Pass

Center 2.57000 GHz #Video BW 100 kHz* Span 40.00 MHz
 #Res BW 30 kHz Sweep 54.6 ms (3001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.570 027 GHz	-31.17 dBm		
2	N	1	f	2.570 000 GHz	-29.58 dBm		
3							
4							
5							
6							

Frequency

Center Frequency
2.570000000 GHz

Span
40.0000000 MHz

Swept Span
Zero Span

Full Span

Start Freq
2.550000000 GHz

Stop Freq
2.590000000 GHz

AUTO TUNE

CF Step
4.000000 MHz

Auto
Man

Freq Offset
0 Hz

X Axis Scale
Log
Lin

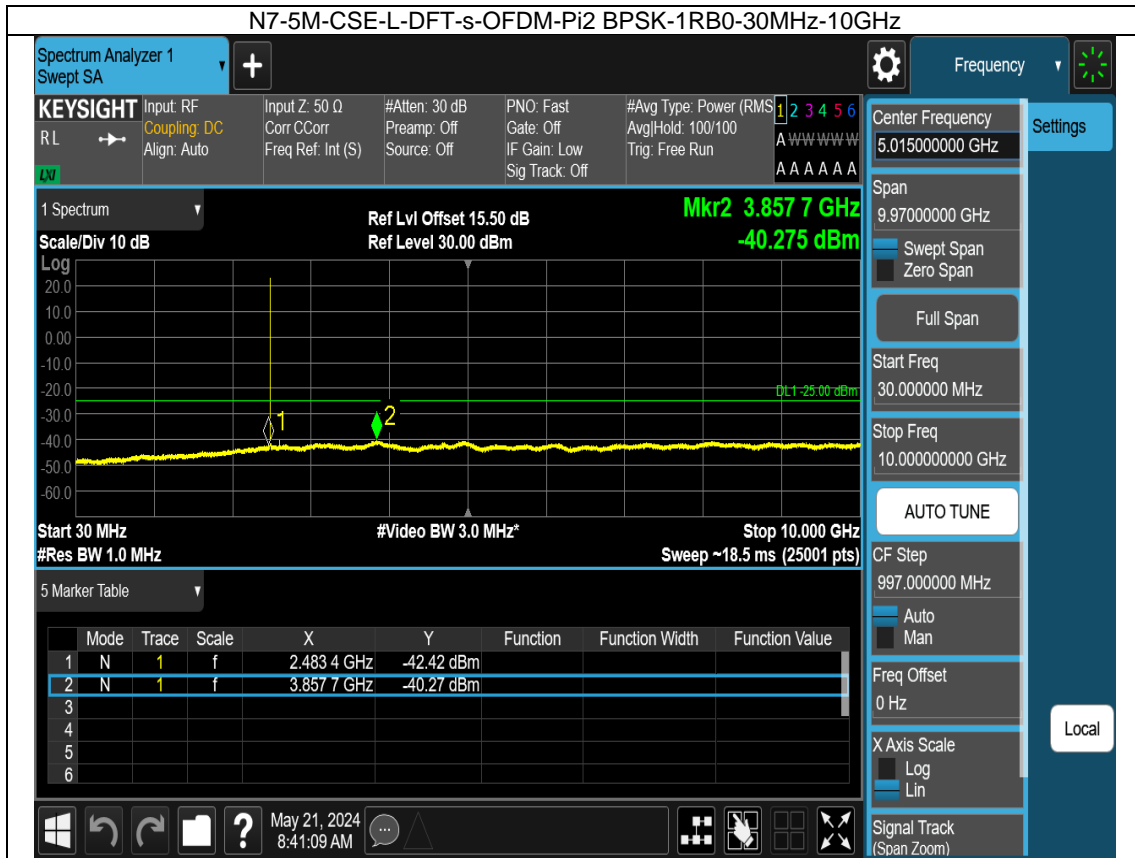
Signal Track
(Span Zoom)

Settings

Local

Windows taskbar: May 23, 2024 4:25:16 PM

Conducted spurious emissions test graph



N7-5M-CSE-L-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-26GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 20 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) AvglHold: 100/100 Trig: Free Run

Center Frequency: 18.000000000 GHz

Span: 16.000000000 GHz

Start Freq: 10.000000000 GHz

Stop Freq: 26.000000000 GHz

AUTO TUNE

CF Step: 1.600000000 GHz

Freq Offset: 0 Hz

X Axis Scale: Log

Signal Track (Span Zoom)

Ref Lvl Offset 15.50 dB

Ref Level 20.00 dBm

Mkr1 25.706 2 GHz -45.676 dBm

Scale/Div 10 dB

Log

Start 10.000 GHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 26.000 GHz Sweep ~32.1 ms (36001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	25.706 2 GHz	-45.68 dBm		
2							
3							
4							
5							
6							

May 21, 2024 8:41:47 AM

N7-5M-CSE-L-CP-OFDM-QPSK-1RB0-30MHz- 10GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 30 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) AvglHold: 100/100 Trig: Free Run

Center Frequency: 5.015000000 GHz

Span: 9.970000000 GHz

Start Freq: 30.000000000 MHz

Stop Freq: 10.000000000 GHz

AUTO TUNE

CF Step: 997.0000000 MHz

Freq Offset: 0 Hz

X Axis Scale: Log

Signal Track (Span Zoom)

Ref Lvl Offset 15.50 dB

Ref Level 30.00 dBm

Mkr2 2.623 0 GHz -39.873 dBm

Scale/Div 10 dB

Log

Start 30 MHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 10.000 GHz Sweep ~18.5 ms (25001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.378 5 GHz	-42.55 dBm		
2	N	1	f	2.623 0 GHz	-39.87 dBm		
3							
4							
5							
6							

May 21, 2024 8:55:25 AM

N7-5M-CSE-L-CP-OFDM-QPSK-1RB0-10GHz-26GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 20 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) Avg/Hold: 100/100 Trig: Free Run

Center Frequency: 18.000000000 GHz

Span: 16.000000000 GHz

Start Freq: 10.000000000 GHz

Stop Freq: 26.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB

Ref Level 20.00 dBm

Mkr1 25.714 7 GHz -45.705 dBm

Start 10.000 GHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 26.000 GHz Sweep ~32.1 ms (36001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	25.714 7 GHz			-45.70 dBm
2							
3							
4							
5							
6							

May 21, 2024 8:56:04 AM

N7-5M-CSE-M-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 30 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) Avg/Hold: 100/100 Trig: Free Run

Center Frequency: 5.015000000 GHz

Span: 9.970000000 GHz

Start Freq: 30.000000000 MHz

Stop Freq: 10.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB

Ref Level 30.00 dBm

Mkr2 2.655 7 GHz -39.047 dBm

Start 30 MHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 10.000 GHz Sweep ~18.5 ms (25001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.415 2 GHz			-42.34 dBm
2	N	1	f	2.655 7 GHz			-39.05 dBm
3							
4							
5							
6							

May 21, 2024 8:43:08 AM

N7-5M-CSE-M-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-26GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 20 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) Avg/Hold: 100/100 Trig: Free Run

Center Frequency: 18.000000000 GHz

Span: 16.000000000 GHz

Start Freq: 10.000000000 GHz

Stop Freq: 26.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB

Ref Level 20.00 dBm

Mkr1 25.531 6 GHz -45.724 dBm

Start 10.000 GHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 26.000 GHz Sweep ~32.1 ms (36001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	25.531 6 GHz			-45.72 dBm
2							
3							
4							
5							
6							

May 21, 2024 8:43:47 AM

N7-5M-CSE-M-CP-OFDM-QPSK-1RB0-30MHz-10GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 30 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) Avg/Hold: 100/100 Trig: Free Run

Center Frequency: 5.015000000 GHz

Span: 9.970000000 GHz

Start Freq: 30.000000000 MHz

Stop Freq: 10.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB

Ref Level 30.00 dBm

Mkr2 2.654 1 GHz -38.531 dBm

Start 30 MHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 10.000 GHz Sweep ~18.5 ms (25001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.402 1 GHz			-42.54 dBm
2	N	1	f	2.654 1 GHz			-38.53 dBm
3							
4							
5							
6							

May 21, 2024 8:57:31 AM