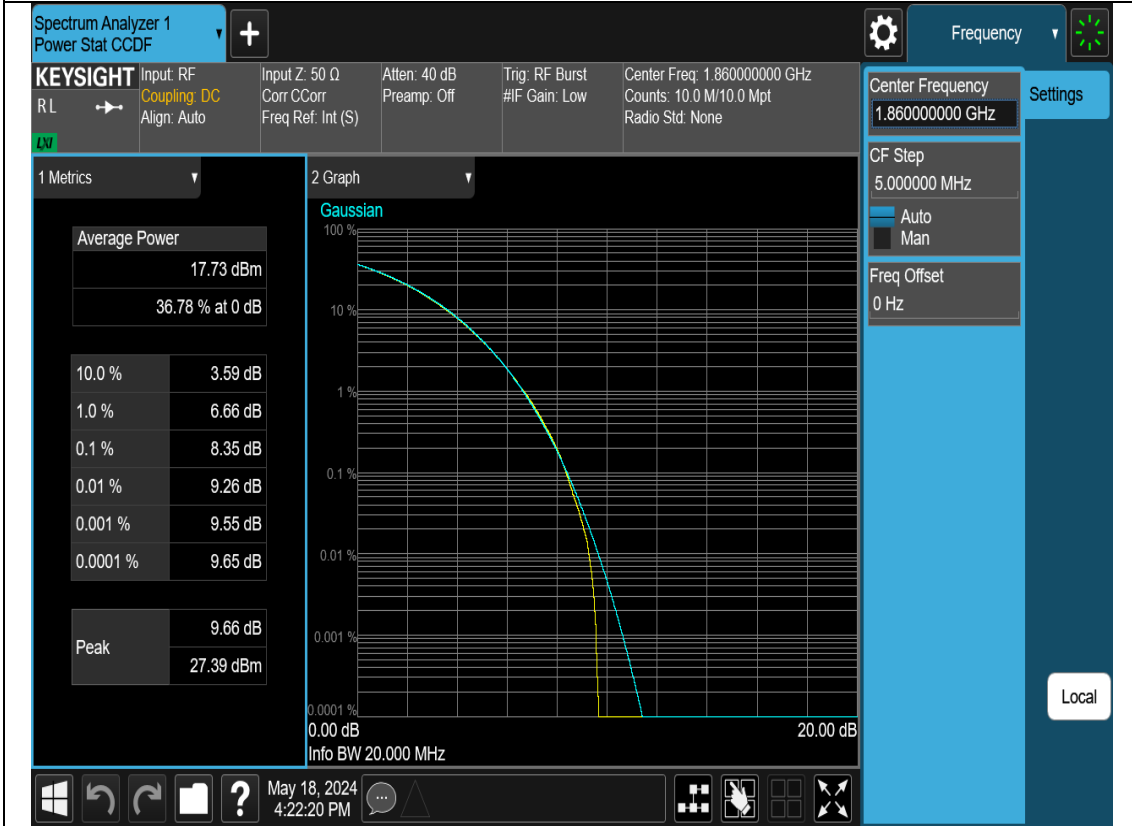


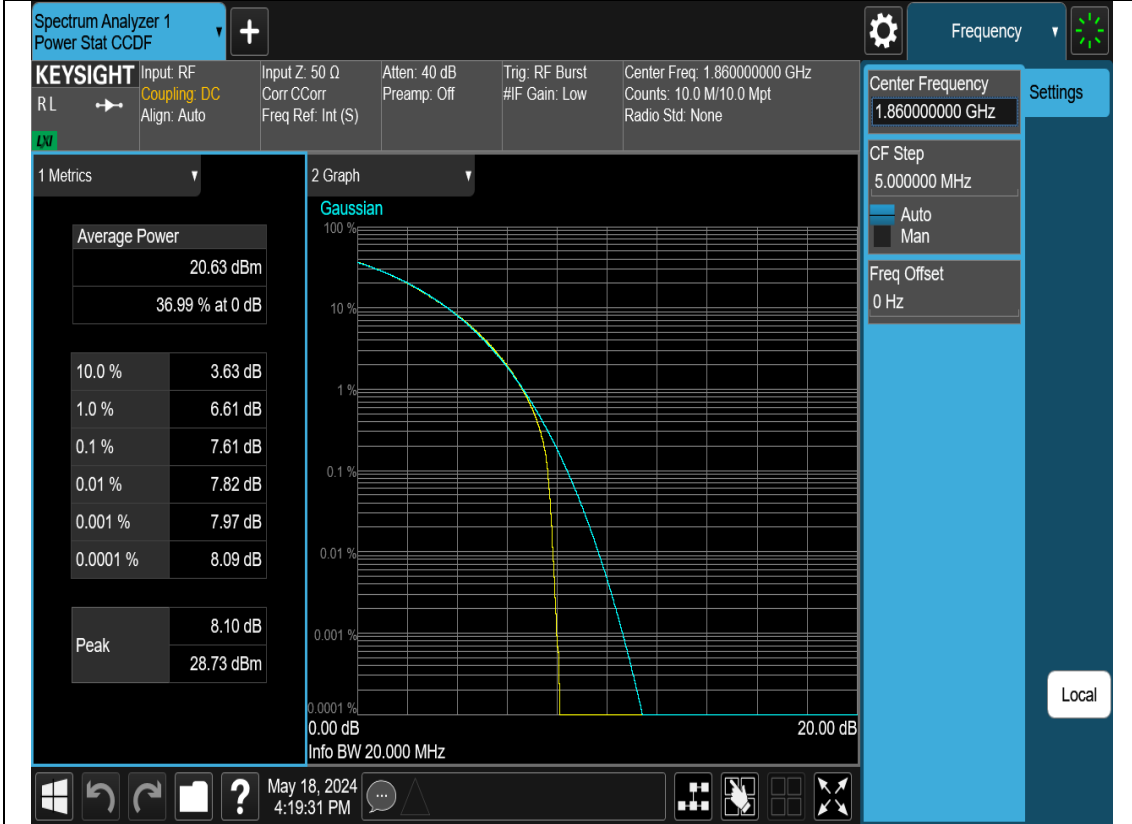
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N2-20M-PAPR-L-CP-OFDM-QPSK-Outer_Full



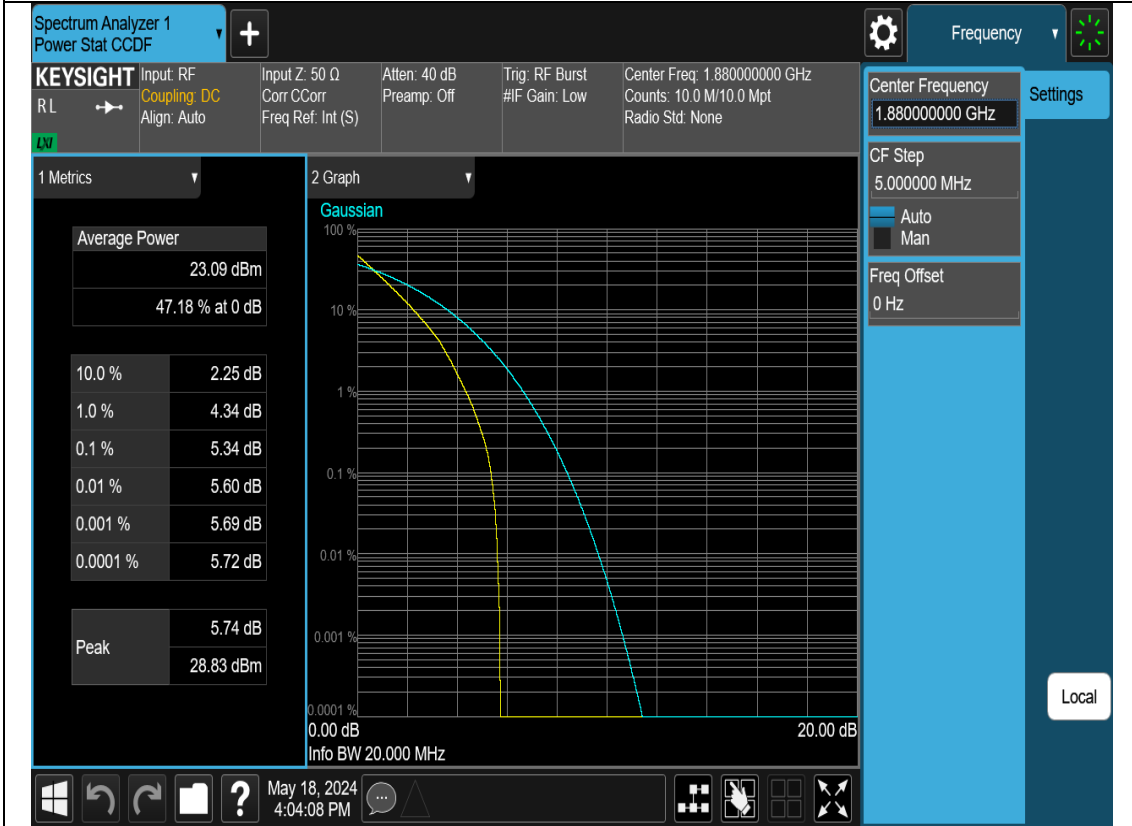
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N2-20M-PAPR-M-DFT-s-OFDM-Pi2 BPSK-Outer_Full



N2-20M-PAPR-M-DFT-s-OFDM-QPSK-Outer_Full



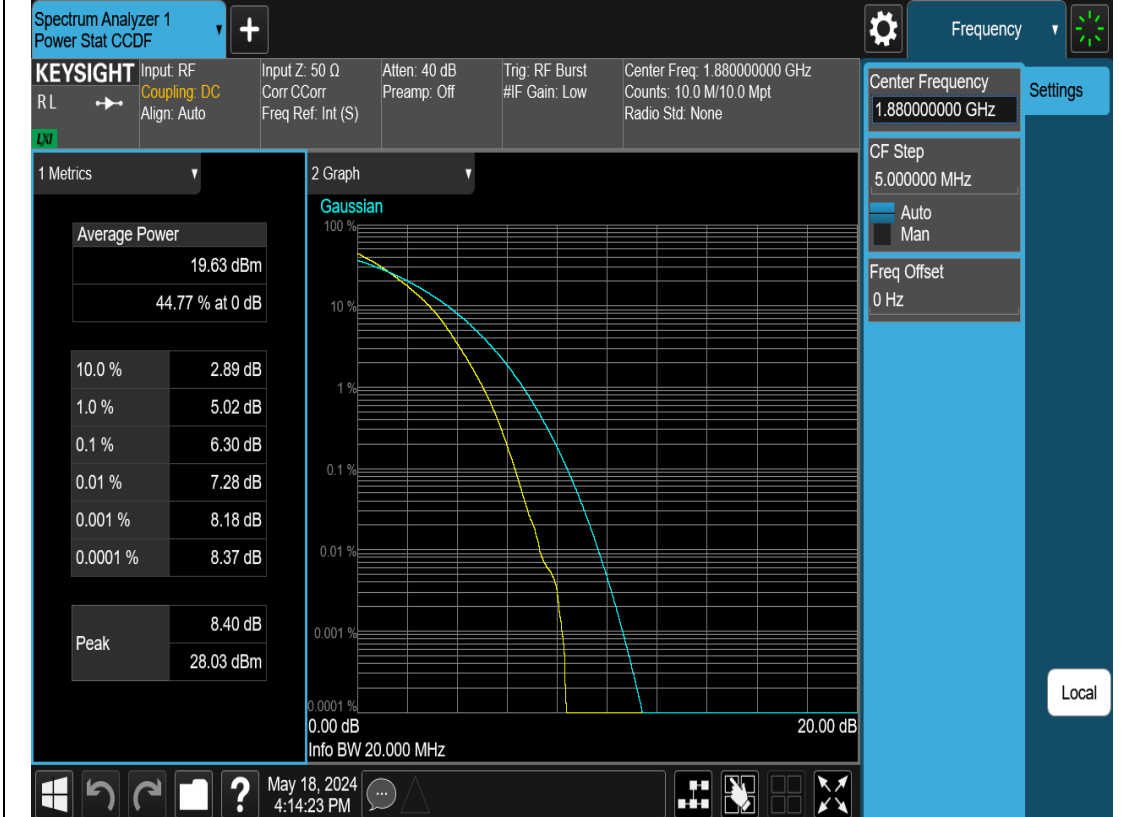
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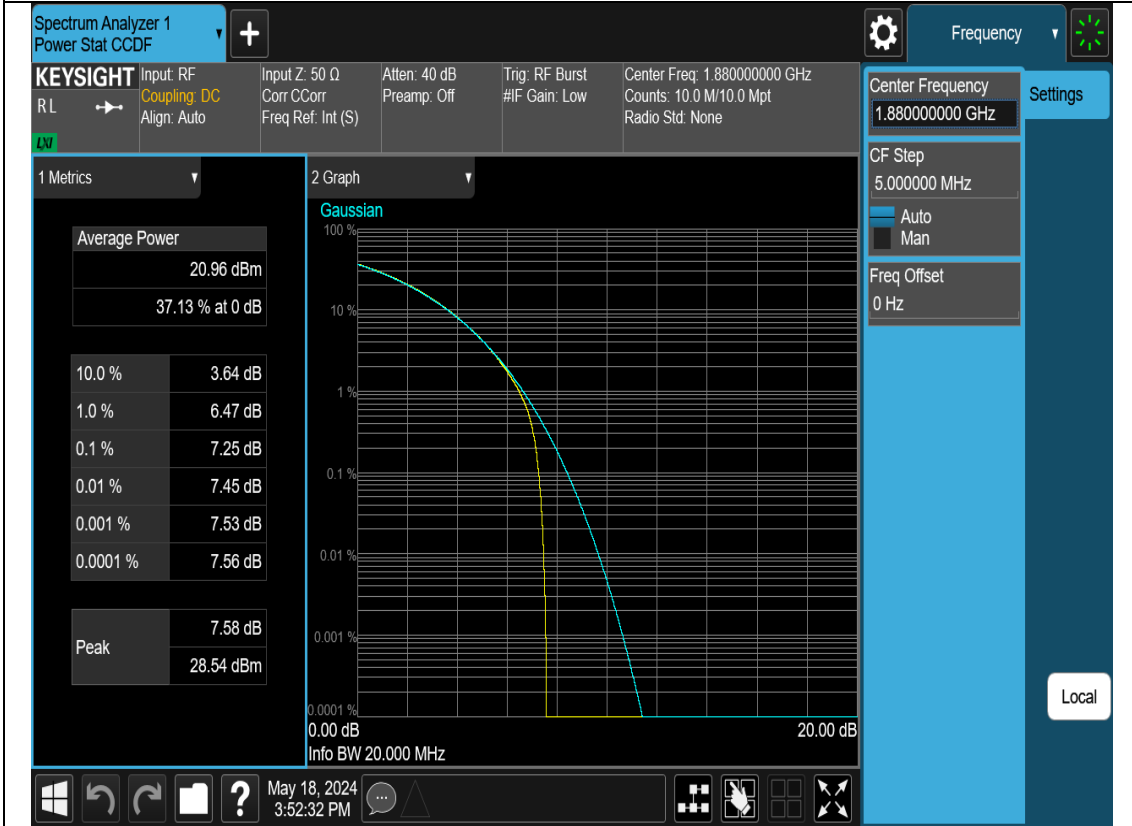
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N2-20M-PAPR-M-DFT-s-OFDM-256QAM-Outer_Full



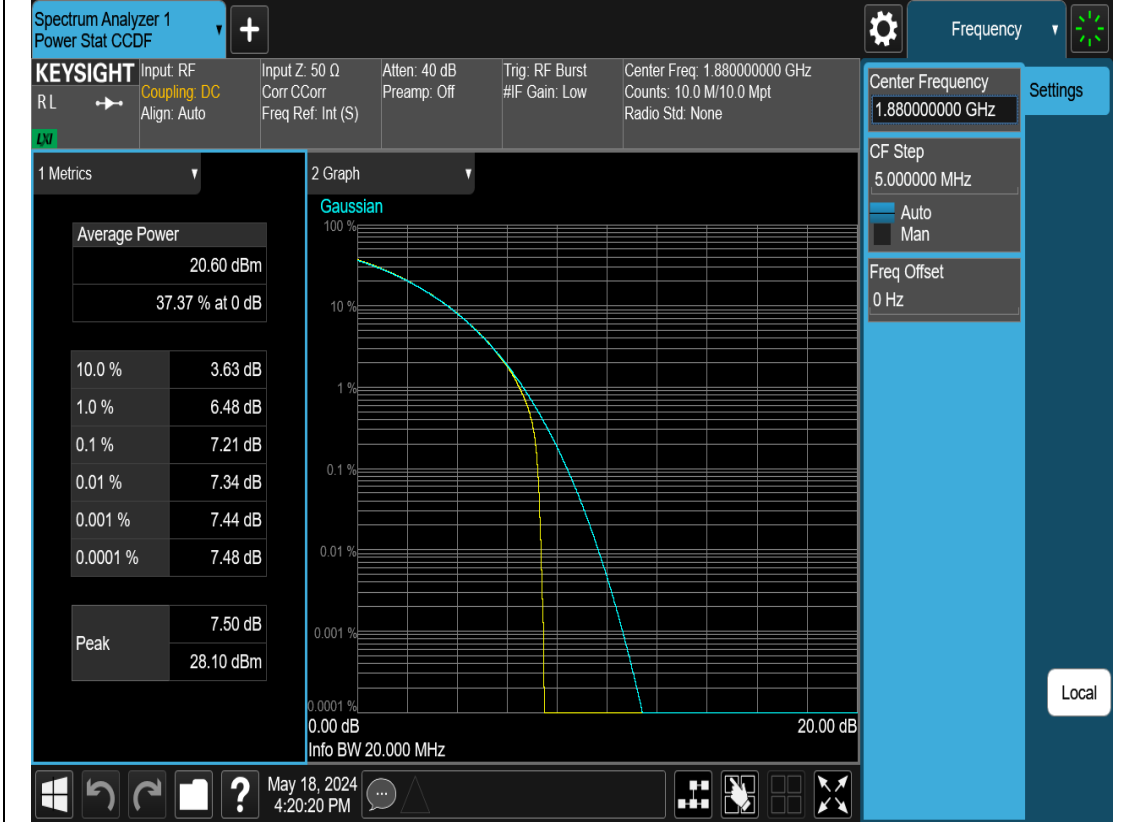
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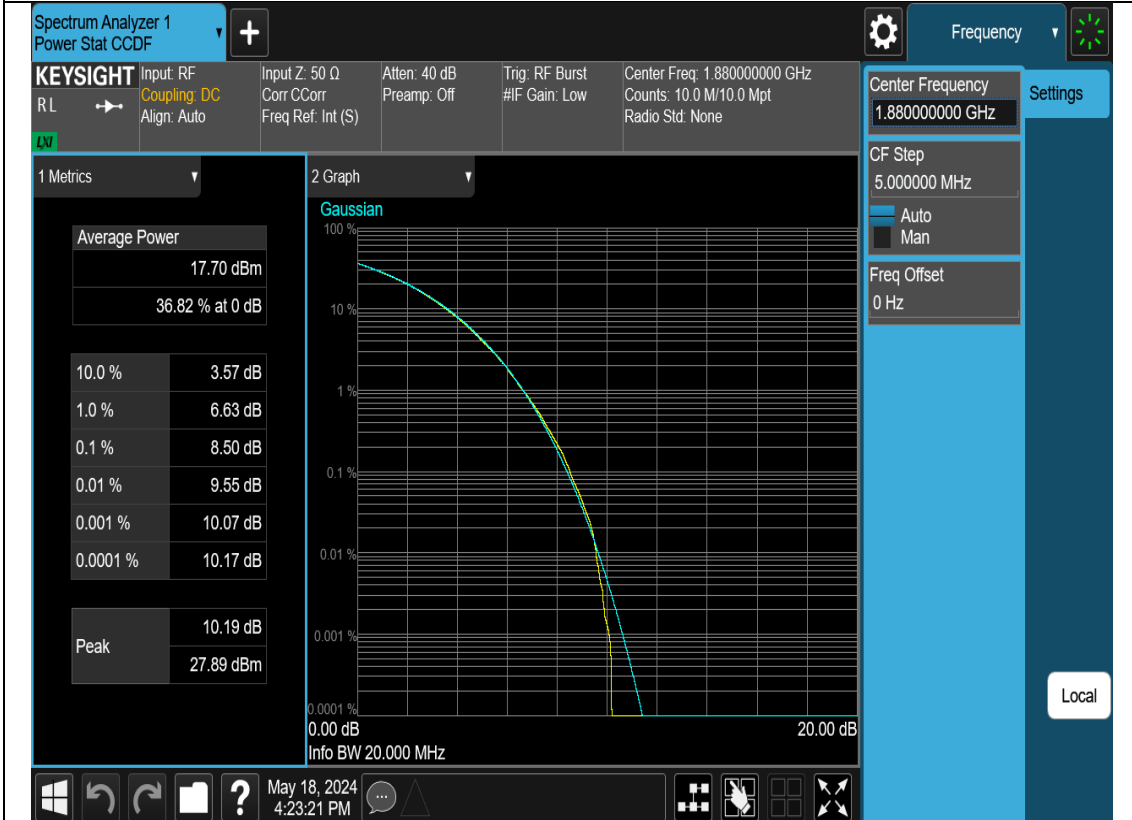
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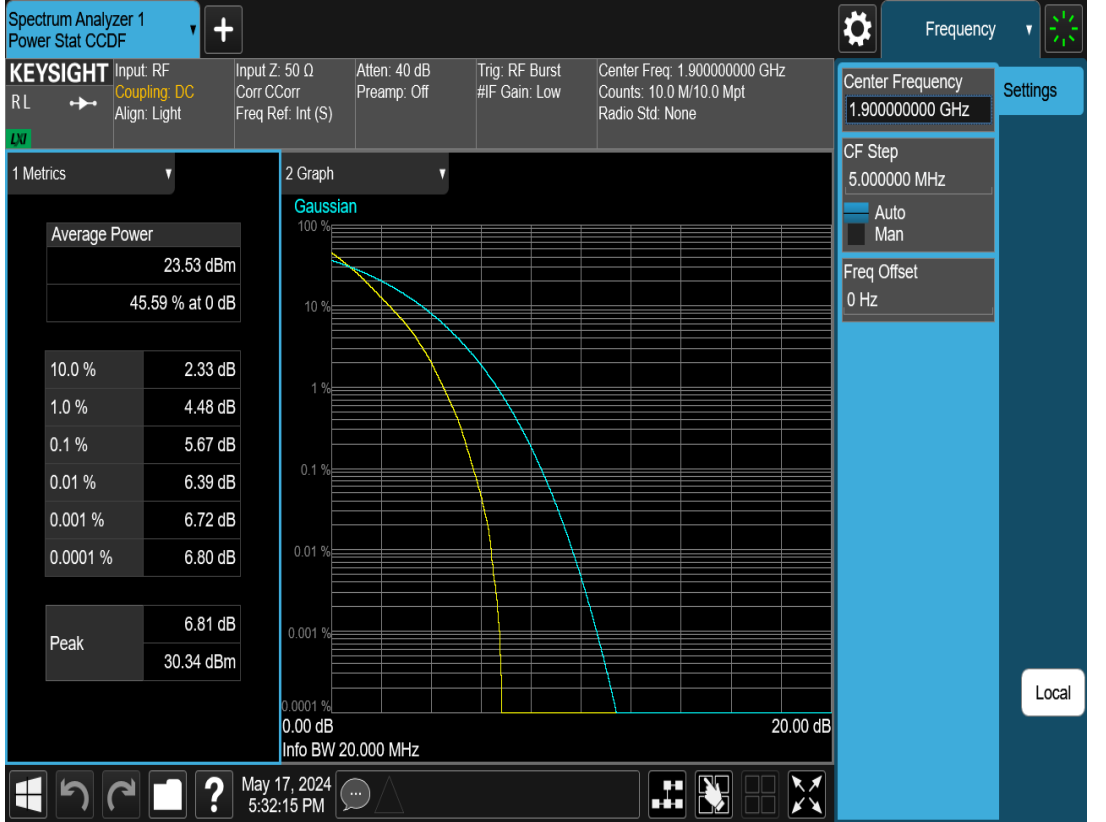
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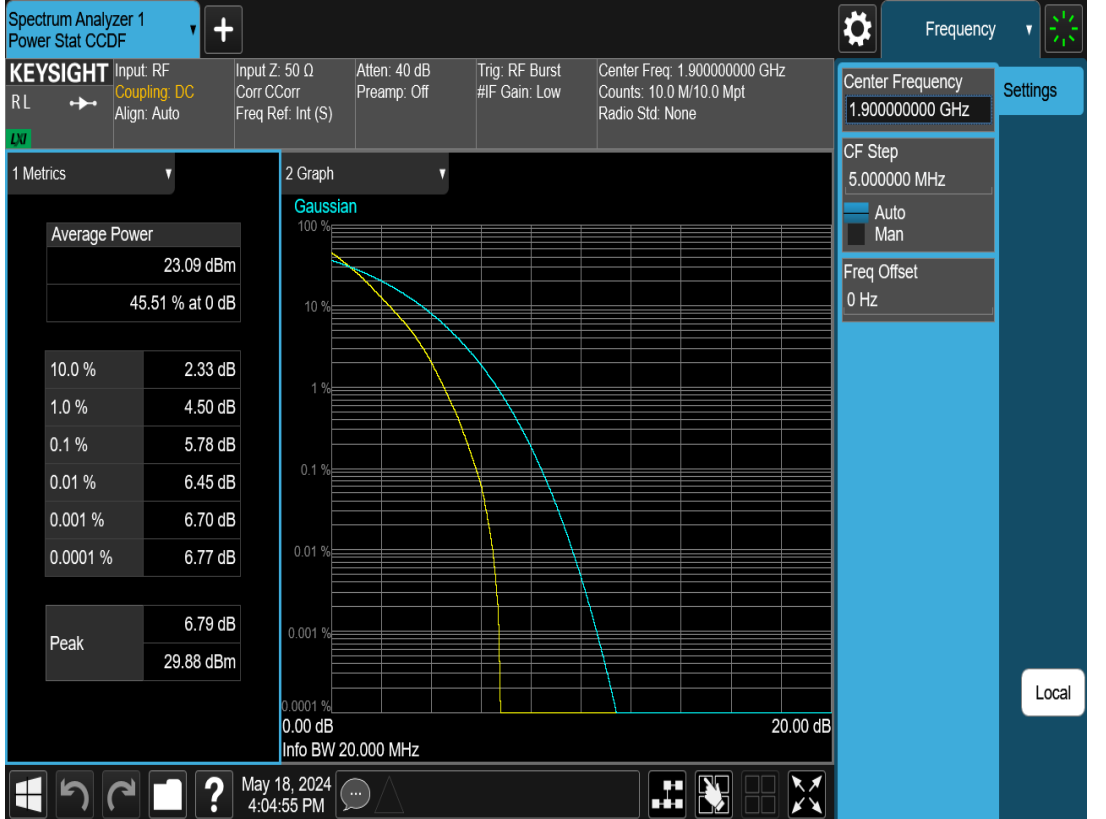
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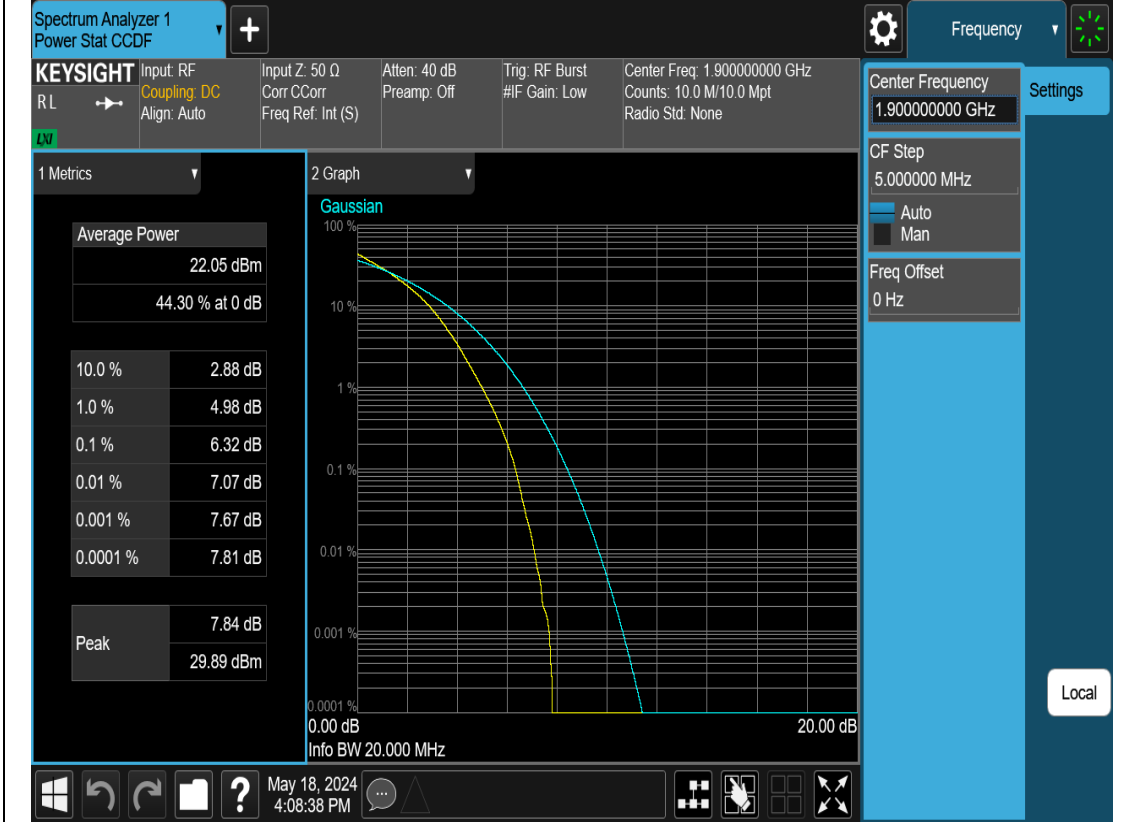
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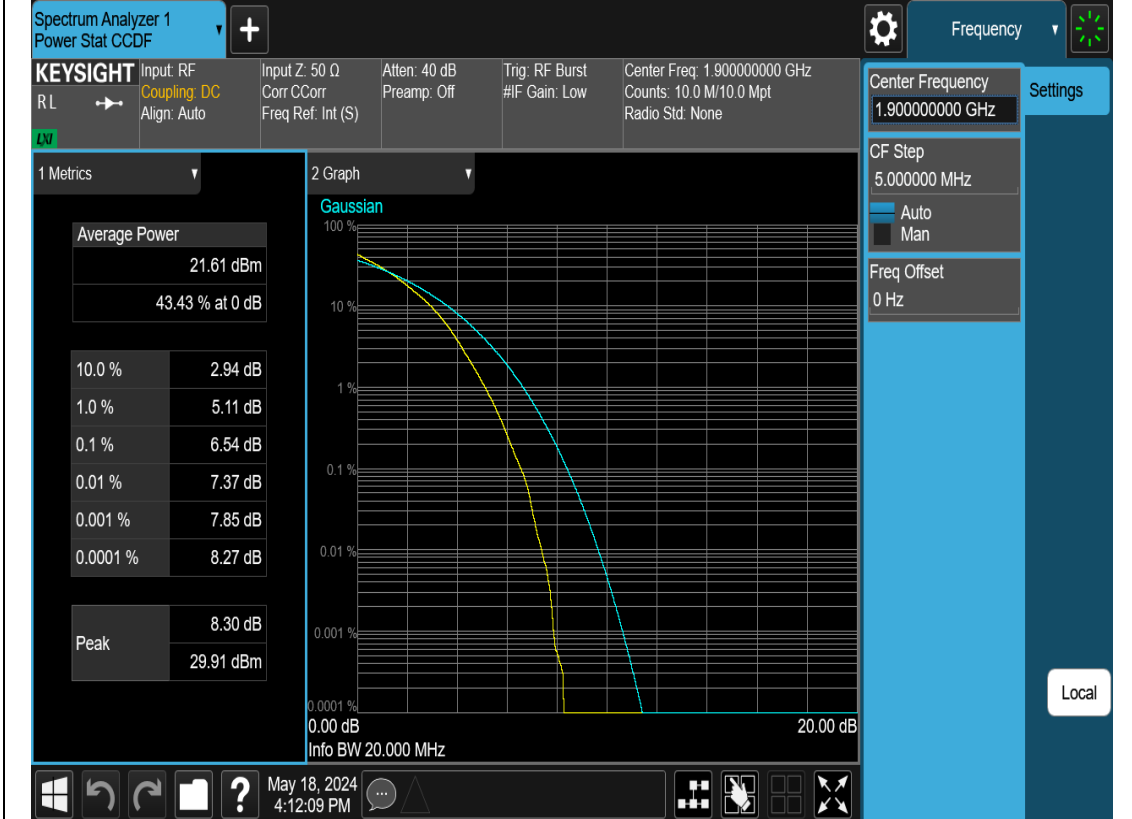
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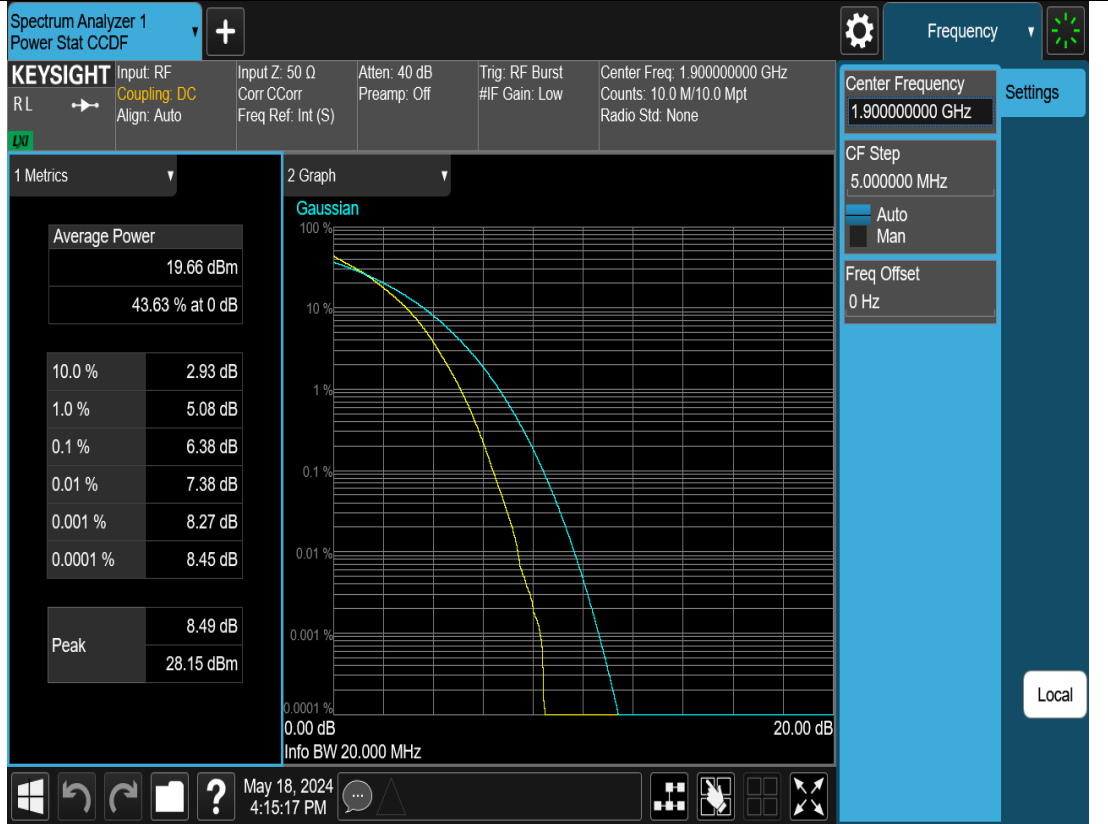
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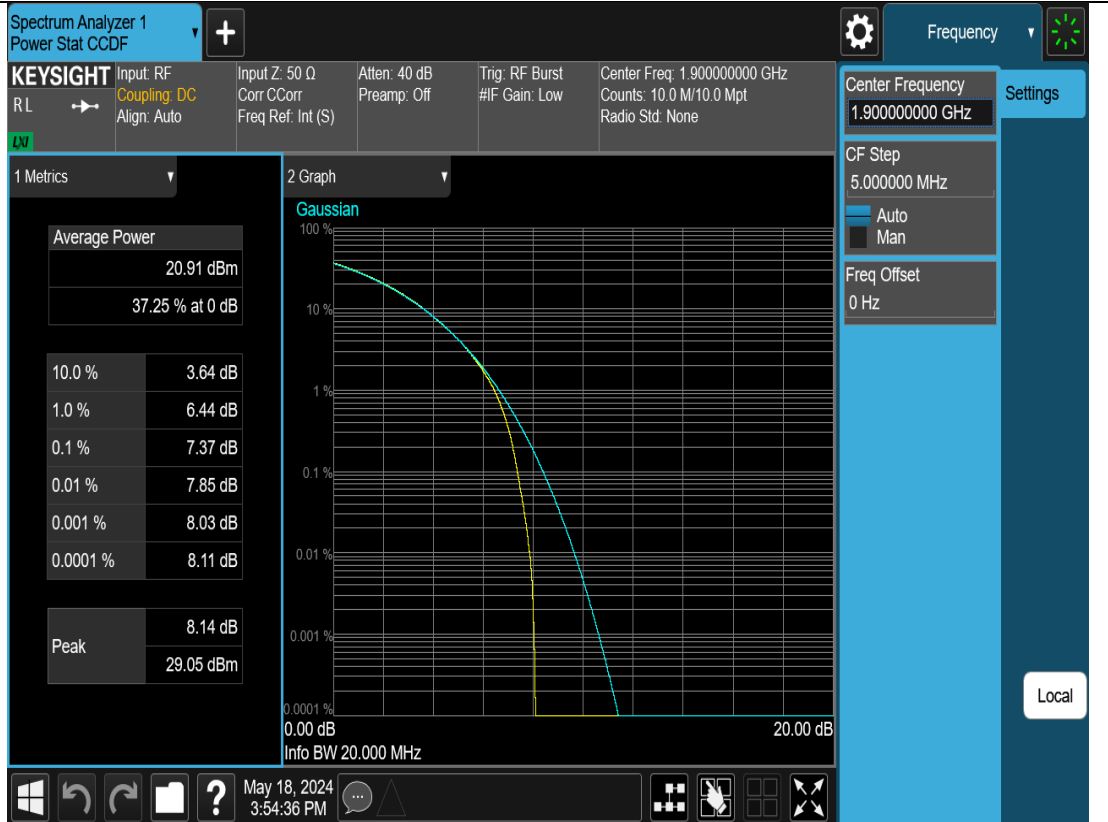
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N2-20M-PAPR-H-DFT-s-OFDM-256QAM-Outer_Full



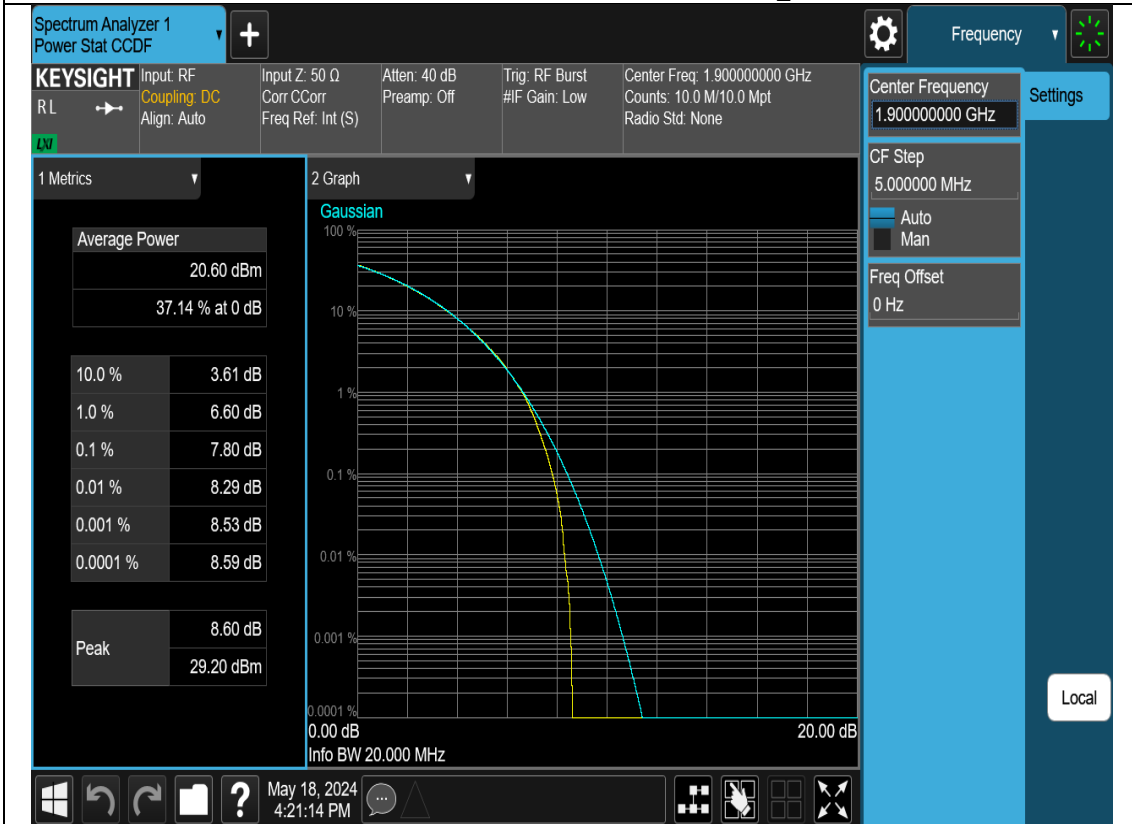
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N2-20M-PAPR-H-CP-OFDM-16QAM-Outer_Full



N2-20M-PAPR-H-CP-OFDM-64QAM-Outer_Full



N2-20M-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: 1.900000000 GHz
Counts: 10.0 M/10.0 Mpt
Radio Std: None

Center Frequency
1.900000000 GHz

CF Step
5.000000 MHz

Auto
Man

Freq Offset
0 Hz

Settings

1 Metrics

Average Power
17.67 dBm
36.88 % at 0 dB

10.0 %	3.59 dB
1.0 %	6.64 dB
0.1 %	8.50 dB
0.01 %	9.73 dB
0.001 %	10.05 dB
0.0001 %	10.14 dB

Peak
10.19 dB
27.86 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

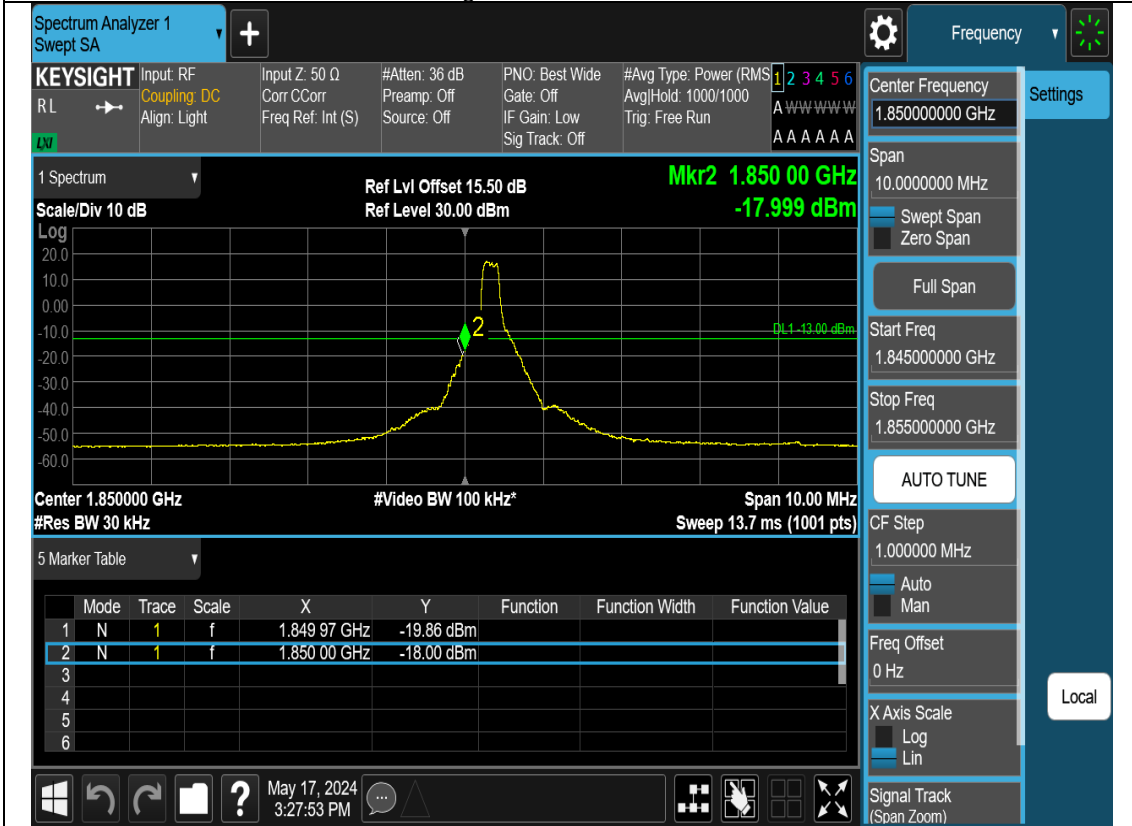
Local

May 18, 2024
4:24:23 PM

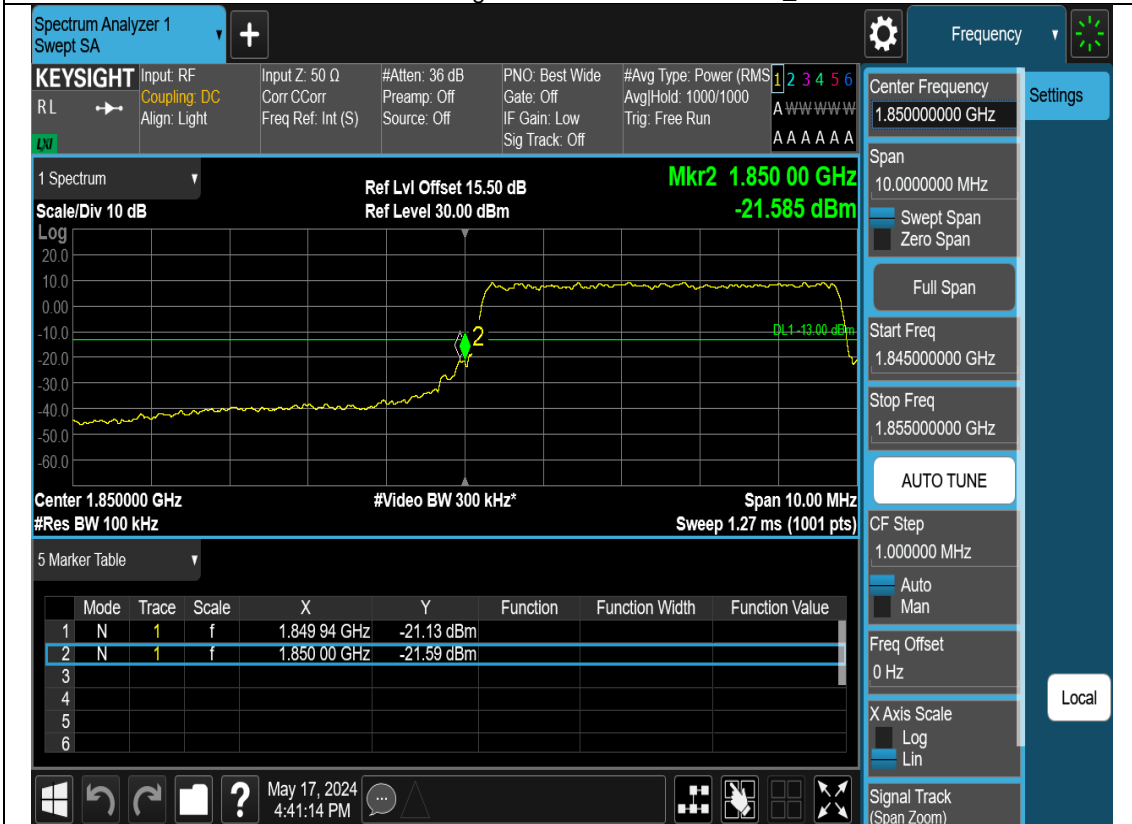
Bandedge test graph



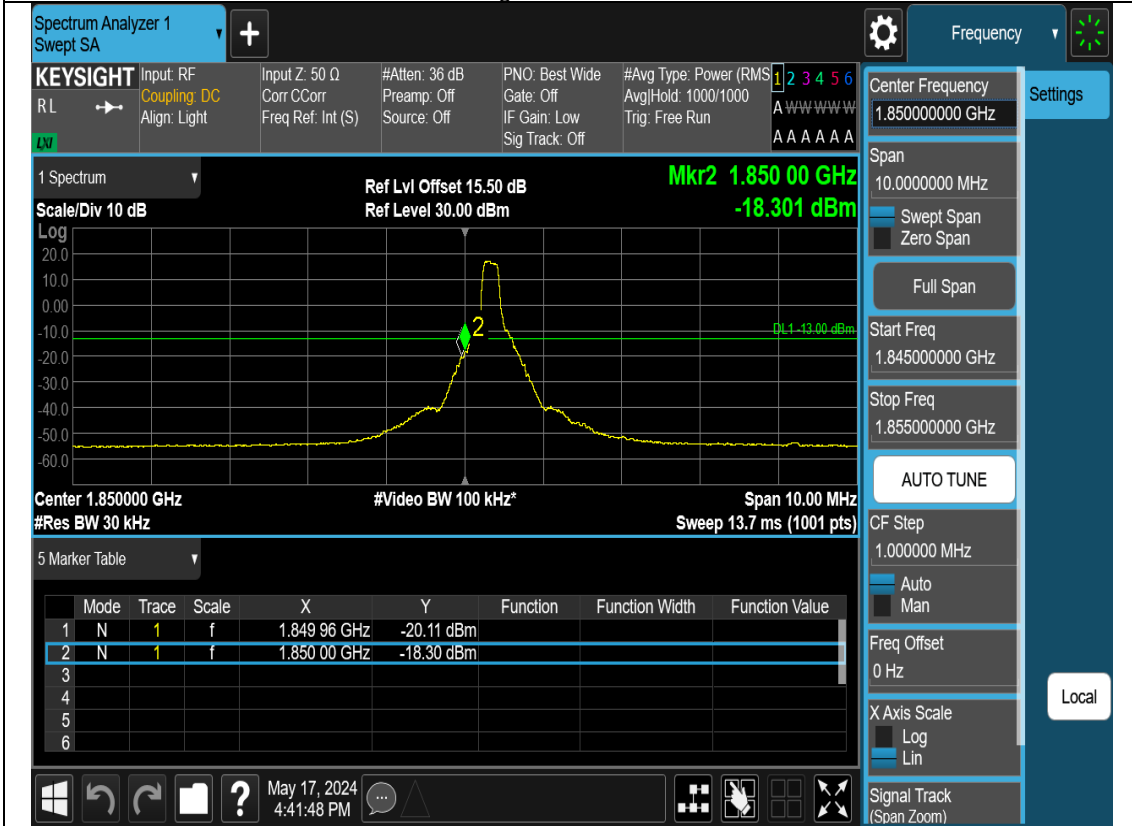
N2-5M-Bandedge-L-DFT-s-OFDM-Pi2 BPSK-1RB0



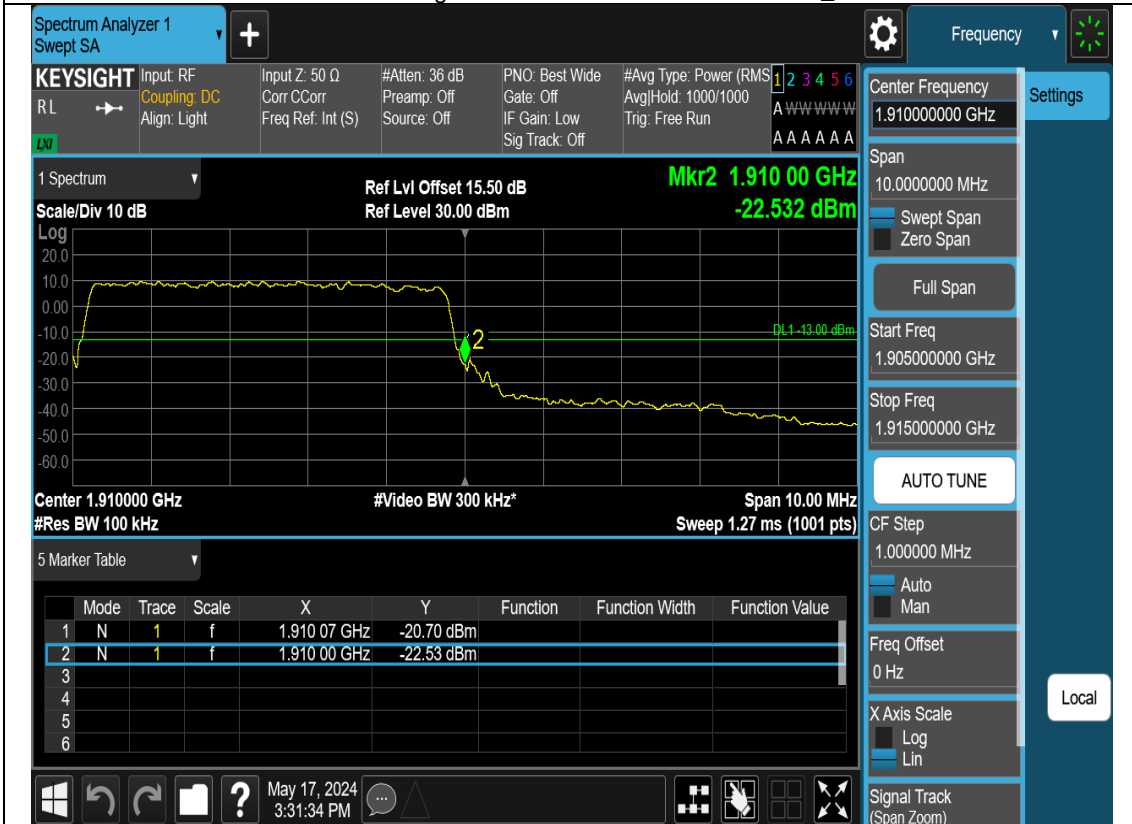
N2-5M-Bandedge-L-CP-OFDM-QPSK-Outer_Full



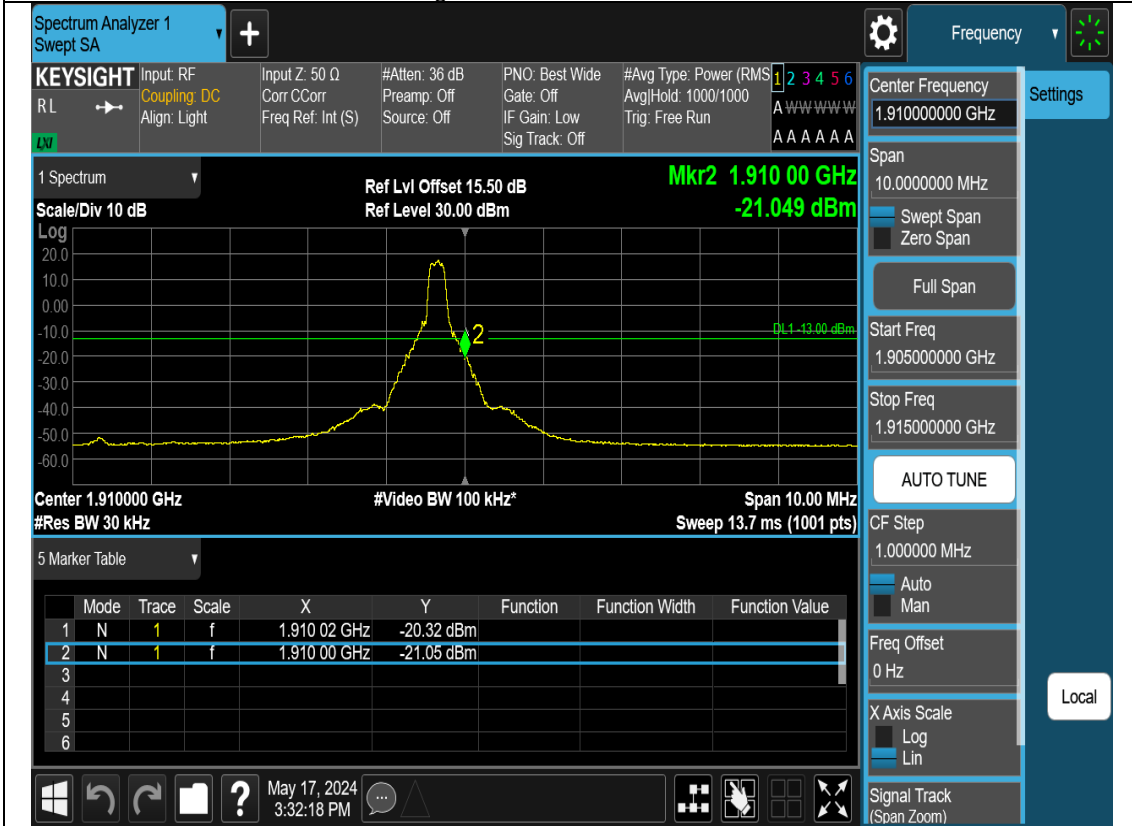
N2-5M-Bandedge-L-CP-OFDM-QPSK-1RB0



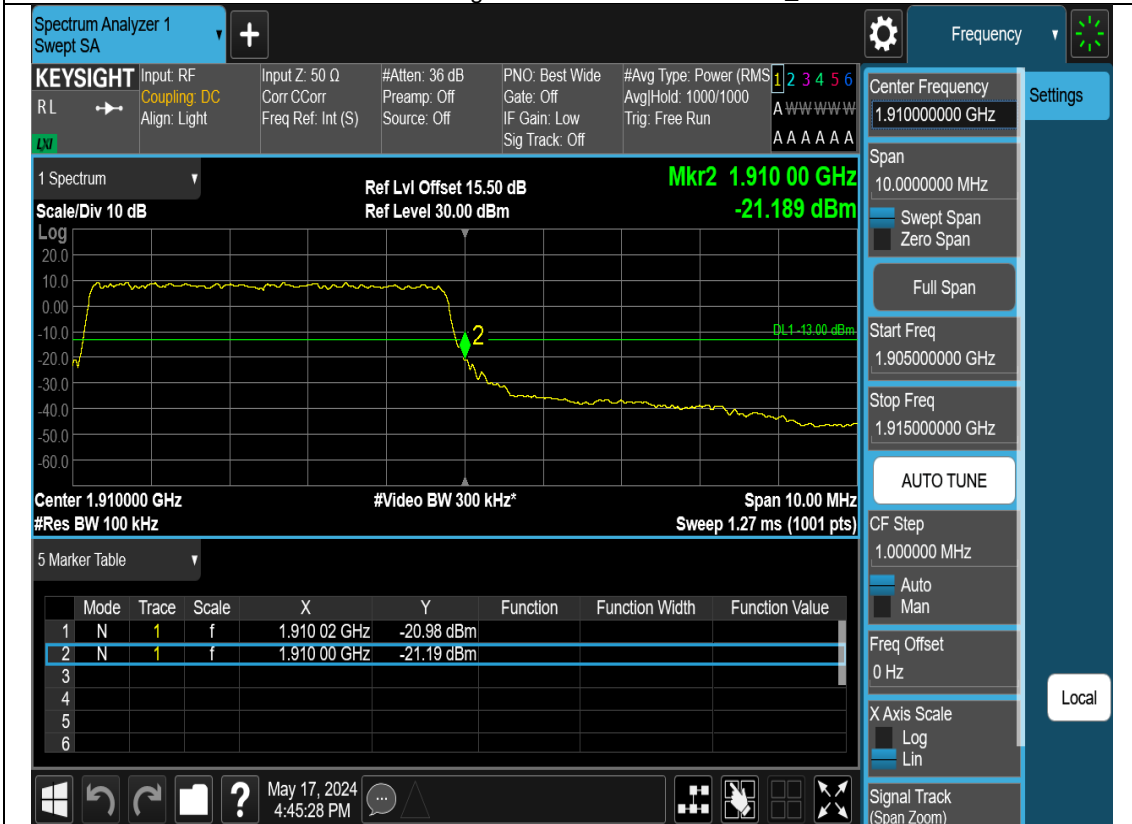
N2-5M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-Outer_Full



N2-5M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-1RB_MAX



N2-5M-Bandedge-H-CP-OFDM-QPSK-Outer_Full



N2-5M-Bandedge-H-CP-OFDM-QPSK-1RB_MAX

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Light

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) AvglHold: 1000/1000 Trig: Free Run

Center Frequency: 1.91000000 GHz

Span: 10.000000 MHz

Start Freq: 1.90500000 GHz

Stop Freq: 1.91500000 GHz

Center 1.910000 GHz #Res BW 30 kHz #Video BW 100 kHz* Span 10.00 MHz Sweep 13.7 ms (1001 pts)

Scale/Div 10 dB Ref Lvl Offset 15.50 dB Ref Level 30.00 dB Mkr2 1.910 00 GHz -16.830 dBm

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.910 03 GHz	-17.49 dBm		
2	N	1	f	1.910 00 GHz	-16.83 dBm		
3							
4							
5							
6							

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N2-10M-Bandedge-L-DFT-s-OFDM-Pi2 BPSK-Outer_Full

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Light

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) AvglHold: 1000/1000 Trig: Free Run

Center Frequency: 1.85000000 GHz

Span: 20.000000 MHz

Start Freq: 1.84000000 GHz

Stop Freq: 1.86000000 GHz

Center 1.850000 GHz #Res BW 150 kHz #Video BW 470 kHz* Span 20.00 MHz Sweep 1.13 ms (1001 pts)

Scale/Div 10 dB Ref Lvl Offset 15.50 dB Ref Level 30.00 dB Mkr2 1.850 00 GHz -26.581 dBm

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.849 98 GHz	-28.07 dBm		
2	N	1	f	1.850 00 GHz	-26.58 dBm		
3							
4							
5							
6							

May 17, 2024 3:45:56 PM

N2-10M-Bandedge-L-DFT-s-OFDM-Pi2 BPSK-1RB0

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Light

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) AvglHold: 1000/1000 Trig: Free Run

Center Frequency 1.85000000 GHz

Span 10.000000 MHz

Start Freq 1.84500000 GHz

Stop Freq 1.85500000 GHz

AUTO TUNE

CF Step 1.000000 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 1.850 00 GHz -18.154 dBm

DL1 -13.00 dBm

Center 1.850000 GHz #Res BW 30 kHz #Video BW 100 kHz* Span 10.00 MHz Sweep 13.7 ms (1001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.849 98 GHz	-18.17 dBm		
2	N	1	f	1.850 00 GHz	-18.15 dBm		
3							
4							
5							
6							

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N2-10M-Bandedge-L-CP-OFDM-QPSK-Outer_Full

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) AvglHold: 1000/1000 Trig: Free Run

Center Frequency 1.85000000 GHz

Span 20.000000 MHz

Start Freq 1.840000000 GHz

Stop Freq 1.860000000 GHz

AUTO TUNE

CF Step 2.000000 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 1.850 00 GHz -30.605 dBm

DL1 -13.00 dBm

Center 1.850000 GHz #Res BW 150 kHz #Video BW 470 kHz* Span 20.00 MHz Sweep 1.13 ms (1001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.849 96 GHz	-28.79 dBm		
2	N	1	f	1.850 00 GHz	-30.61 dBm		
3							
4							
5							
6							

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N2-10M-Bandedge-L-CP-OFDM-QPSK-1RB0

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) 1 2 3 4 5 6 Avg/Hold: 1000/1000 Trig: Free Run A A A A A A

Center Frequency 1.85000000 GHz

Span 10.000000 MHz

Start Freq 1.84500000 GHz

Stop Freq 1.85500000 GHz

AUTO TUNE

CF Step 1.000000 MHz

Auto Man

Freq Offset 0 Hz

X Axis Scale Log Lin

Signal Track (Span Zoom)

Settings Local

1 Spectrum

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm

Mkr2 1.850 00 GHz -22.528 dBm

DL1 -13.00 dBm

Center 1.850000 GHz #Video BW 100 kHz* Span 10.00 MHz #Res BW 30 kHz Sweep 13.7 ms (1001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.849 98 GHz	-23.28 dBm		
2	N	1	f	1.850 00 GHz	-22.53 dBm		
3							
4							
5							
6							

May 18, 2024 1:57:10 PM

N2-10M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-Outer_Full

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Light

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) 1 2 3 4 5 6 Avg/Hold: 1000/1000 Trig: Free Run A A A A A A

Center Frequency 1.91000000 GHz

Span 20.000000 MHz

Start Freq 1.90000000 GHz

Stop Freq 1.92000000 GHz

AUTO TUNE

CF Step 2.000000 MHz

Auto Man

Freq Offset 0 Hz

X Axis Scale Log Lin

Signal Track (Span Zoom)

Settings Local

1 Spectrum

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm

Mkr2 1.910 00 GHz -32.491 dBm

DL1 -13.00 dBm

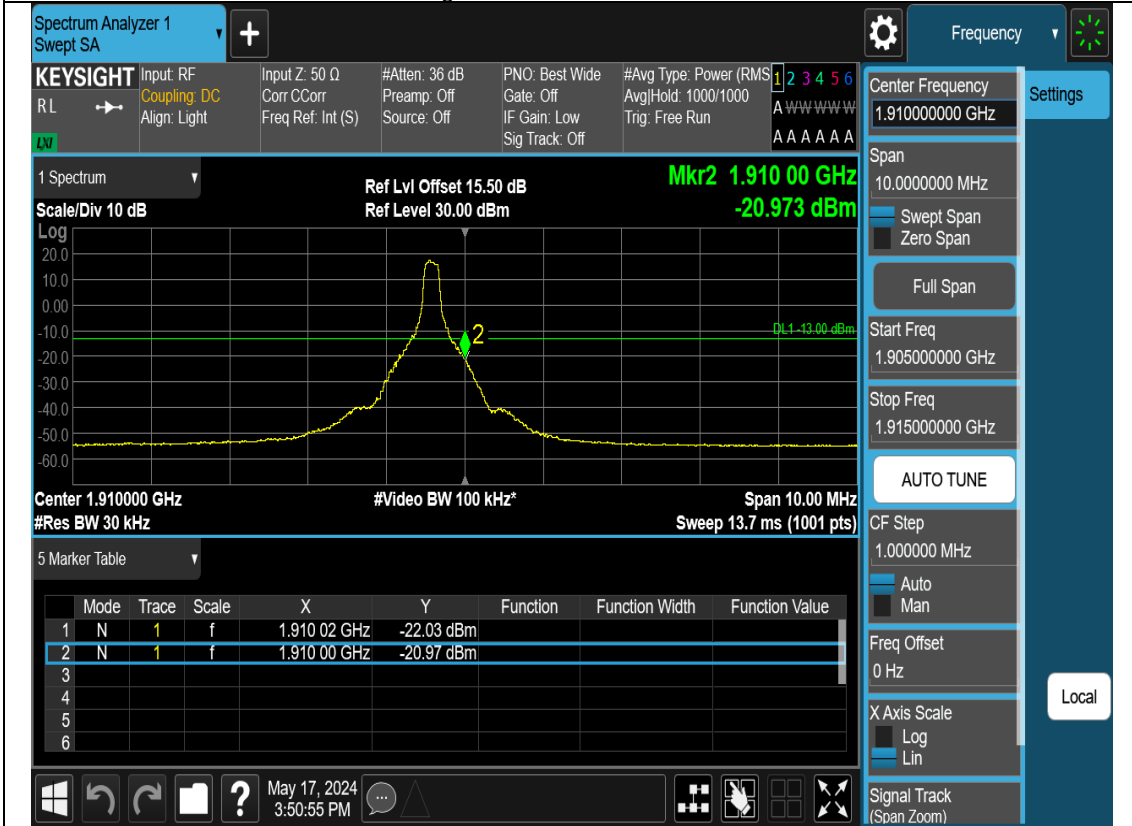
Center 1.910000 GHz #Video BW 470 kHz* Span 20.00 MHz #Res BW 150 kHz Sweep 1.13 ms (1001 pts)

5 Marker Table

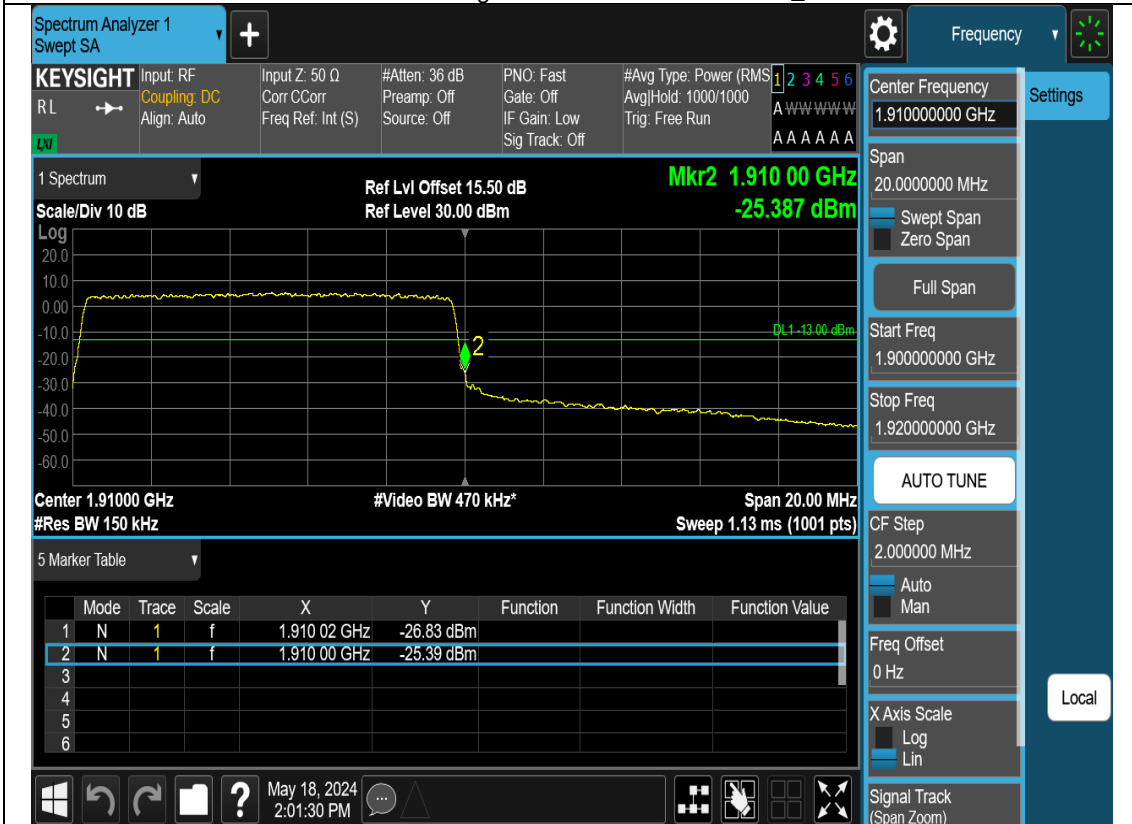
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.910 02 GHz	-33.43 dBm		
2	N	1	f	1.910 00 GHz	-32.49 dBm		
3							
4							
5							
6							

May 17, 2024 3:50:10 PM

N2-10M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-1RB_MAX



N2-10M-Bandedge-H-CP-OFDM-QPSK-Outer_Full



N2-10M-Bandedge-H-CP-OFDM-QPSK-1RB_MAX

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) 1 2 3 4 5 6 Avg/Hold: 1000/1000 Trig: Free Run A A A A A A

Center Frequency 1.91000000 GHz

Span 10.000000 MHz

Start Freq 1.90500000 GHz

Stop Freq 1.91500000 GHz

AUTO TUNE

CF Step 1.000000 MHz

Auto Man

Freq Offset 0 Hz

X Axis Scale Log Lin

Signal Track (Span Zoom)

Settings Local

1 Spectrum

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm

Mkr2 1.910 00 GHz -23.294 dBm

DL1 -13.00 dBm

Center 1.910000 GHz #Video BW 100 kHz* Span 10.00 MHz #Res BW 30 kHz Sweep 13.7 ms (1001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.910 02 GHz	-24.22 dBm		
2	N	1	f	1.910 00 GHz	-23.29 dBm		
3							
4							
5							
6							

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N2-15M-Bandedge-L-DFT-s-OFDM-Pi2 BPSK-Outer_Full

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Light

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) 1 2 3 4 5 6 Avg/Hold: 1000/1000 Trig: Free Run A A A A A A

Center Frequency 1.85000000 GHz

Span 30.000000 MHz

Start Freq 1.835000000 GHz

Stop Freq 1.865000000 GHz

AUTO TUNE

CF Step 3.000000 MHz

Auto Man

Freq Offset 0 Hz

X Axis Scale Log Lin

Signal Track (Span Zoom)

Settings Local

1 Spectrum

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm

Mkr2 1.850 00 GHz -23.935 dBm

DL1 -13.00 dBm

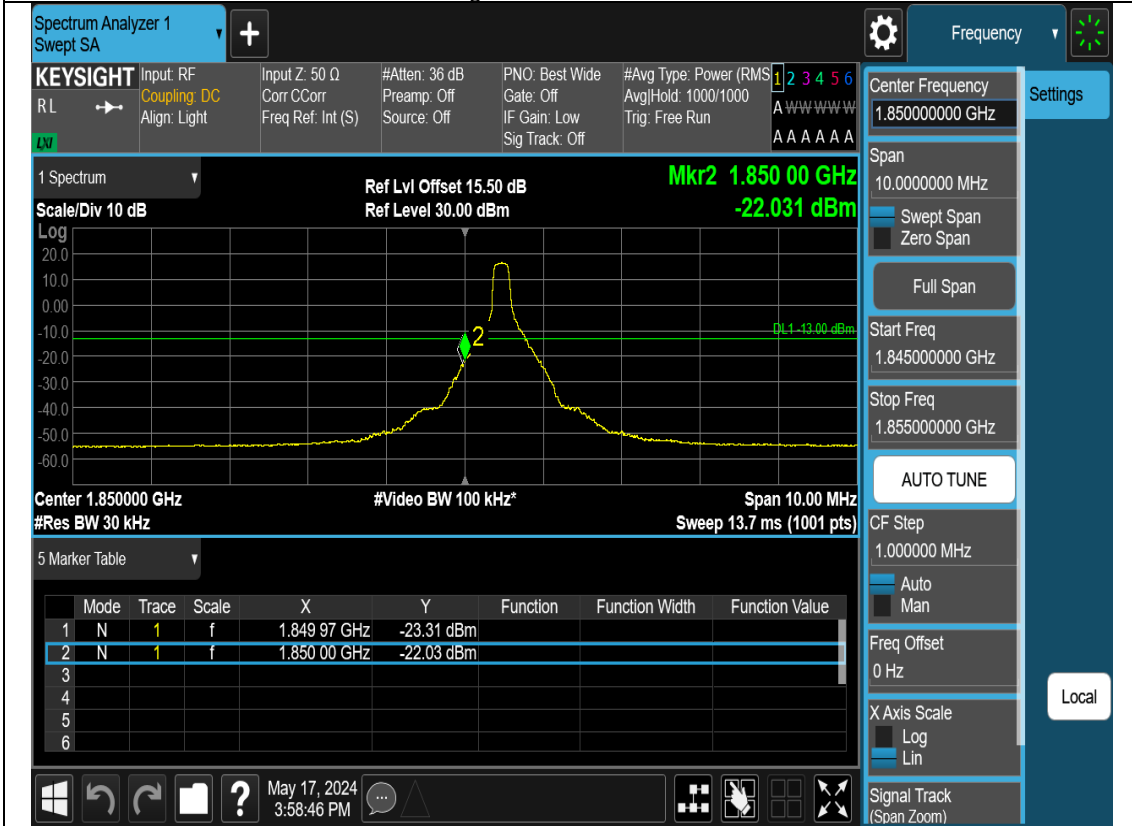
Center 1.850000 GHz #Video BW 1.0 MHz* Span 30.00 MHz #Res BW 300 kHz Sweep 1.00 ms (1001 pts)

5 Marker Table

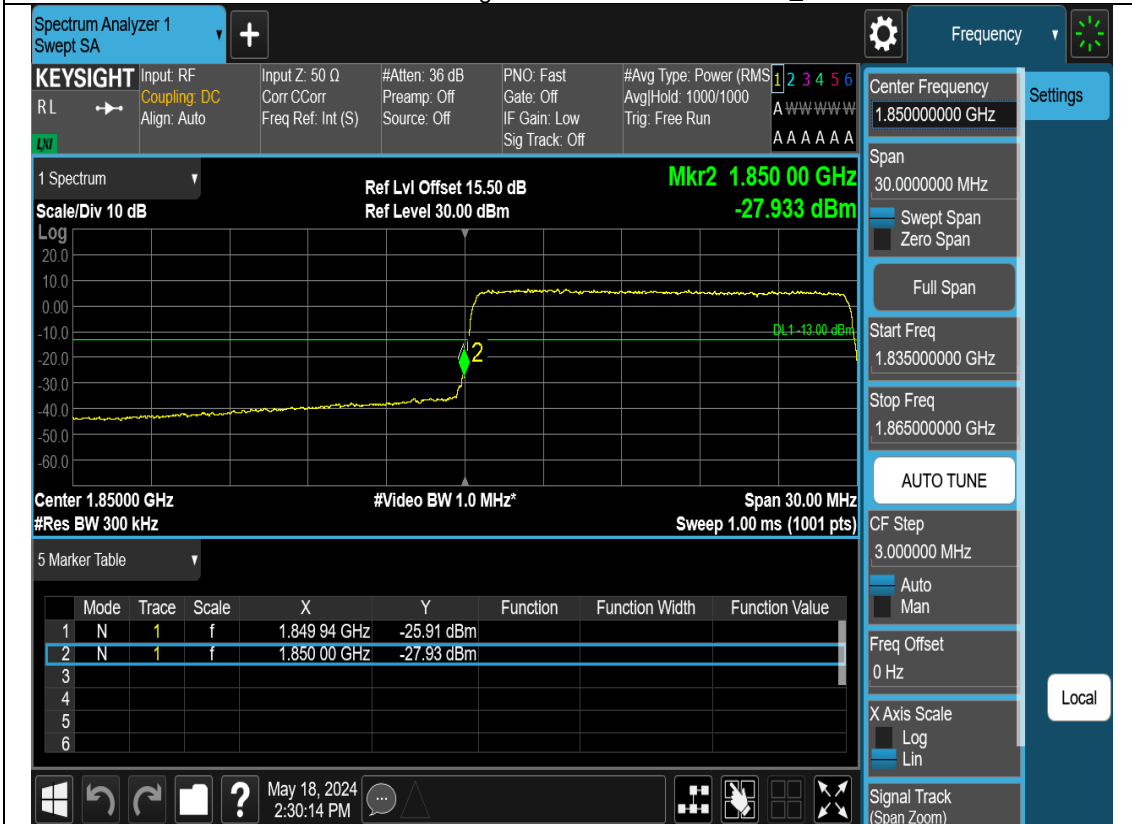
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.849 97 GHz	-24.25 dBm		
2	N	1	f	1.850 00 GHz	-23.93 dBm		
3							
4							
5							
6							

May 17, 2024 3:58:12 PM

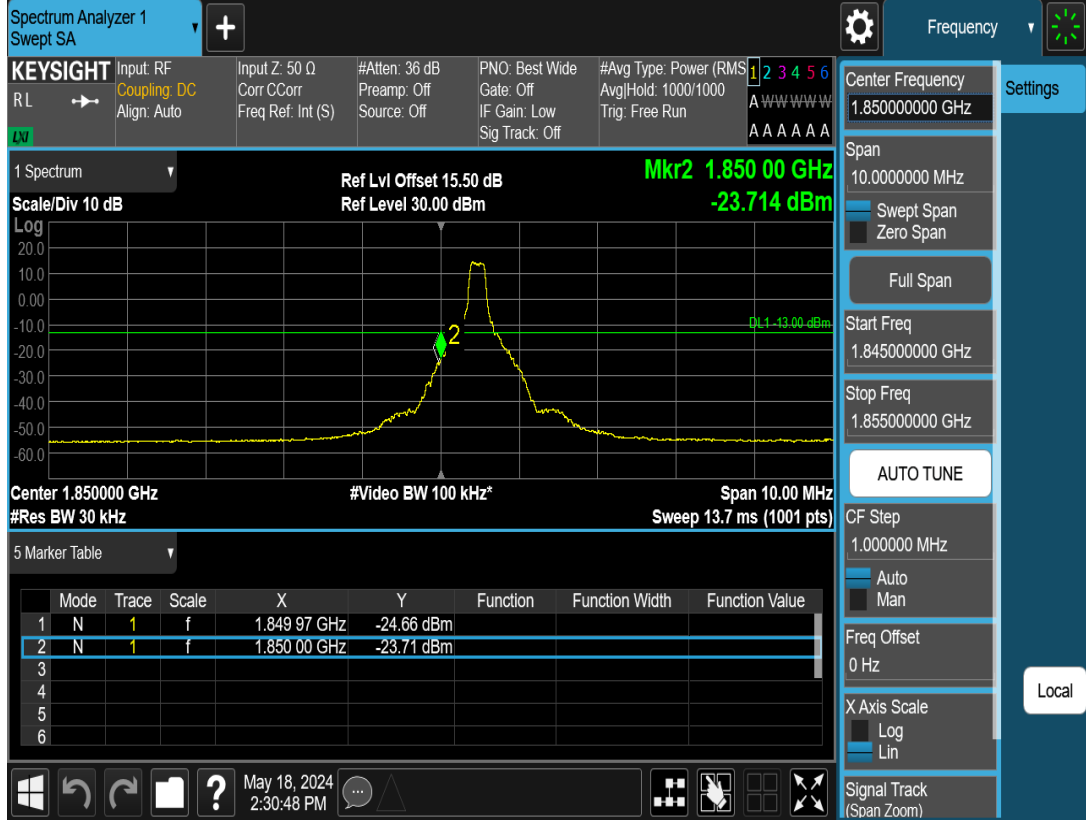
N2-15M-Bandedge-L-DFT-s-OFDM-Pi2 BPSK-1RB0



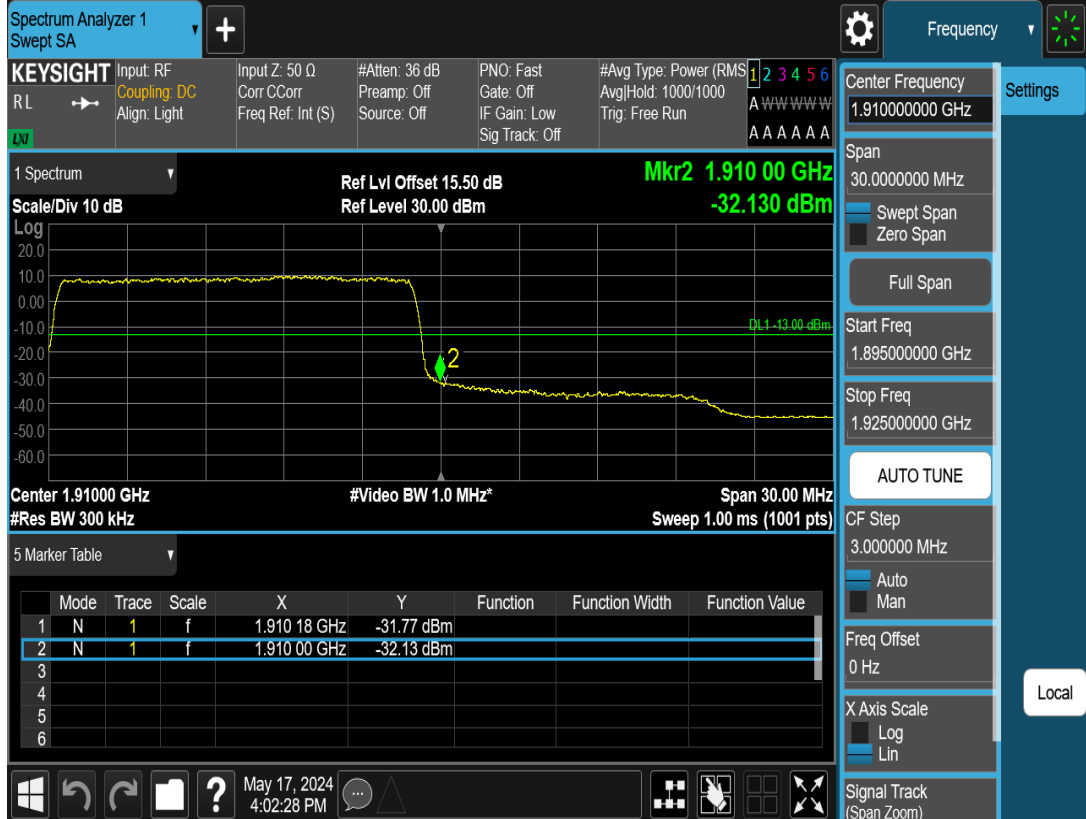
N2-15M-Bandedge-L-CP-OFDM-QPSK-Outer_Full



N2-15M-Bandedge-L-CP-OFDM-QPSK-1RB0



N2-15M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-Outer_Full



N2-15M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-1RB_MAX

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Light

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) 1 2 3 4 5 6 Avg/Hold: 1000/1000 Trig: Free Run A A A A A A

Center Frequency: 1.91000000 GHz

Span: 10.000000 MHz

Start Freq: 1.90500000 GHz

Stop Freq: 1.91500000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm

Mkr2 1.910 00 GHz -26.552 dBm

DL1 -13.00 dBm

Center 1.910000 GHz #Video BW 100 kHz* Span 10.00 MHz #Res BW 30 kHz Sweep 13.7 ms (1001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.910 04 GHz	-26.26 dBm		
2	N	1	f	1.910 00 GHz	-26.55 dBm		
3							
4							
5							
6							

May 17, 2024 4:03:13 PM

Settings: Local

N2-15M-Bandedge-H-CP-OFDM-QPSK-Outer_Full

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) 1 2 3 4 5 6 Avg/Hold: 1000/1000 Trig: Free Run A A A A A A

Center Frequency: 1.91000000 GHz

Span: 30.000000 MHz

Start Freq: 1.895000000 GHz

Stop Freq: 1.925000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm

Mkr2 1.910 00 GHz -18.156 dBm

DL1 -13.00 dBm

Center 1.910000 GHz #Video BW 1.0 MHz* Span 30.00 MHz #Res BW 300 kHz Sweep 1.00 ms (1001 pts)

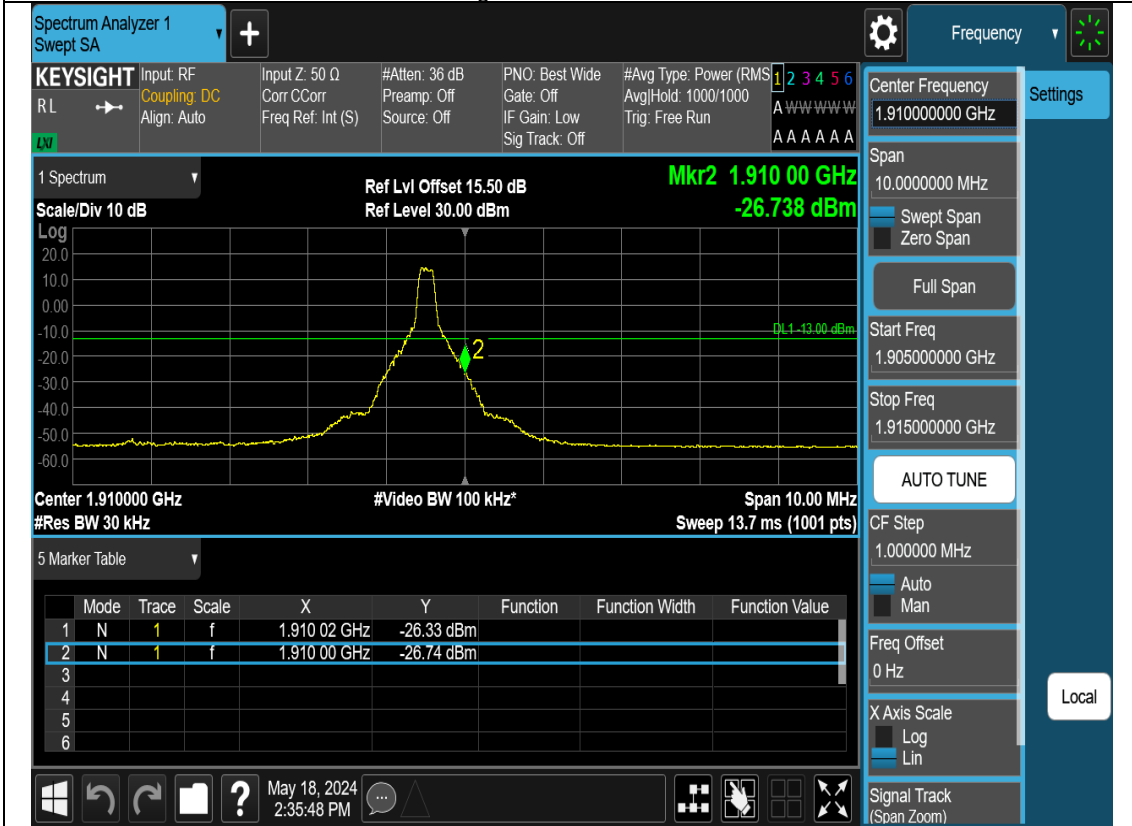
5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.910 03 GHz	-20.23 dBm		
2	N	1	f	1.910 00 GHz	-18.16 dBm		
3							
4							
5							
6							

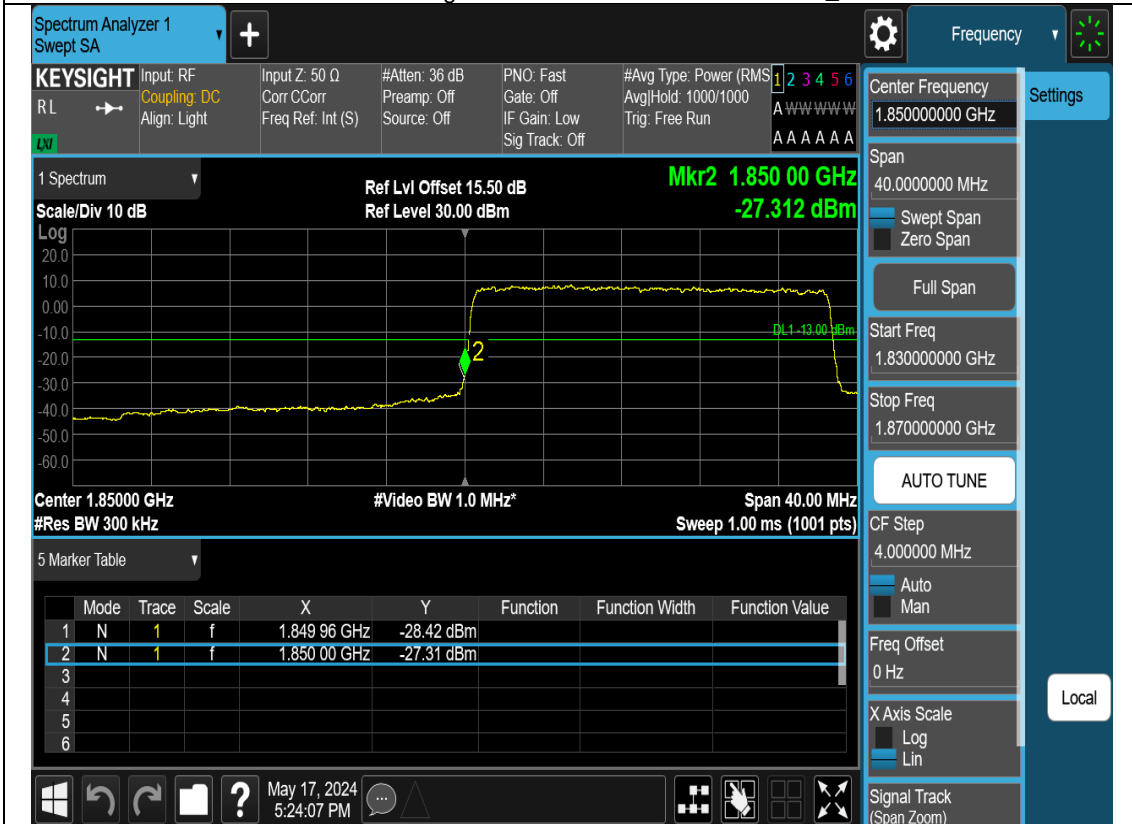
May 18, 2024 2:35:06 PM

Settings: Local

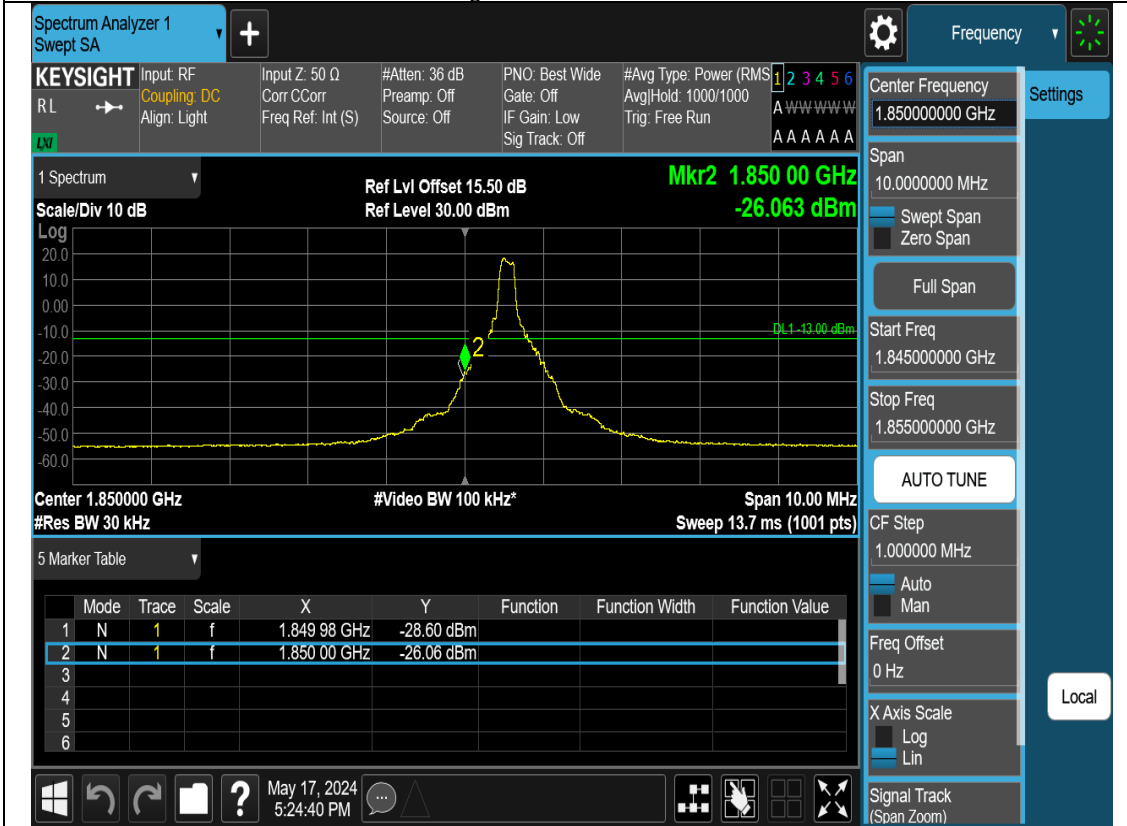
N2-15M-Bandedge-H-CP-OFDM-QPSK-1RB_MAX



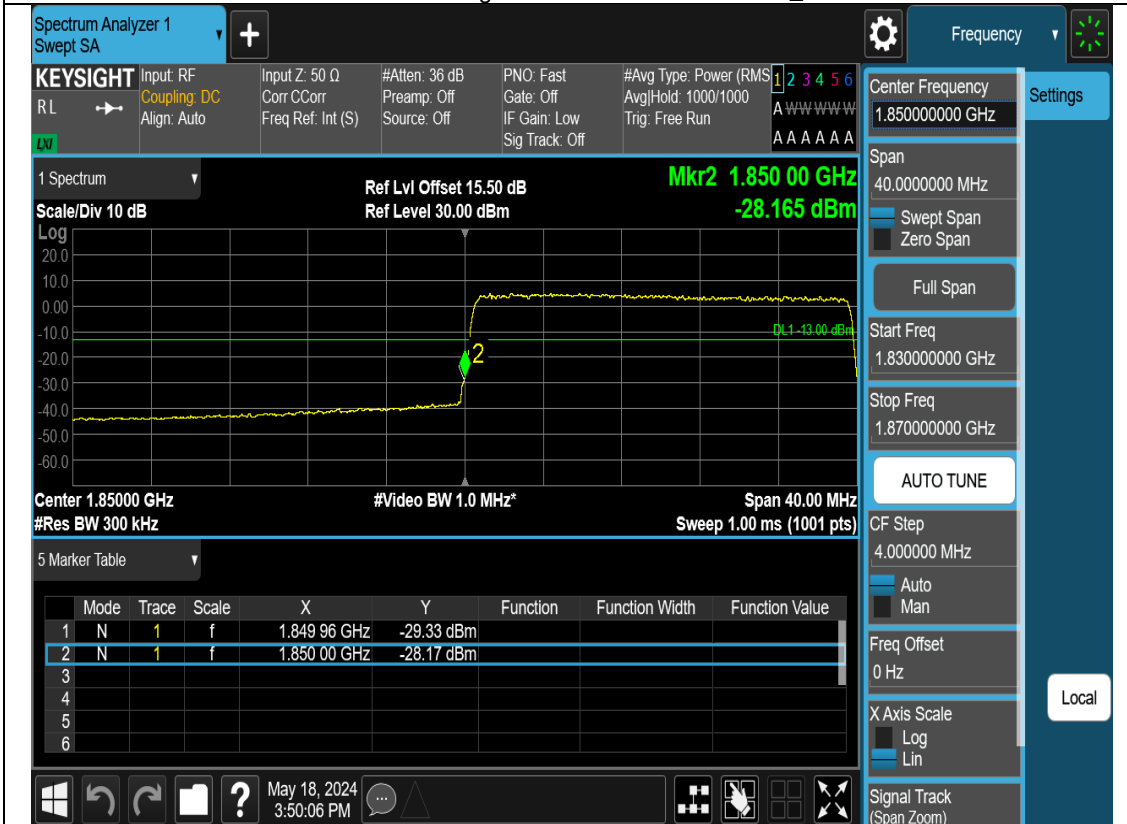
N2-20M-Bandedge-L-DFT-s-OFDM-Pi2 BPSK-Outer_Full



N2-20M-Bandedge-L-DFT-s-OFDM-Pi2 BPSK-1RB0



N2-20M-Bandedge-L-CP-OFDM-QPSK-Outer_Full



N2-20M-Bandedge-L-CP-OFDM-QPSK-1RB0

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) Avg/Hold: 1000/1000 Trig: Free Run

Center Frequency: 1.85000000 GHz

Span: 10.000000 MHz

Start Freq: 1.84500000 GHz

Stop Freq: 1.85500000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm

Mkr2 1.850 00 GHz -29.102 dBm

DL1 -13.00 dBm

Center 1.850000 GHz #Video BW 100 kHz* Span 10.00 MHz #Res BW 30 kHz Sweep 13.7 ms (1001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.849 98 GHz	-29.95 dBm		
2	N	1	f	1.850 00 GHz	-29.10 dBm		
3							
4							
5							
6							

May 18, 2024 3:50:39 PM

N2-20M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-Outer_Full

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Light

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) Avg/Hold: 1000/1000 Trig: Free Run

Center Frequency: 1.91000000 GHz

Span: 40.000000 MHz

Start Freq: 1.890000000 GHz

Stop Freq: 1.930000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm

Mkr2 1.910 00 GHz -33.099 dBm

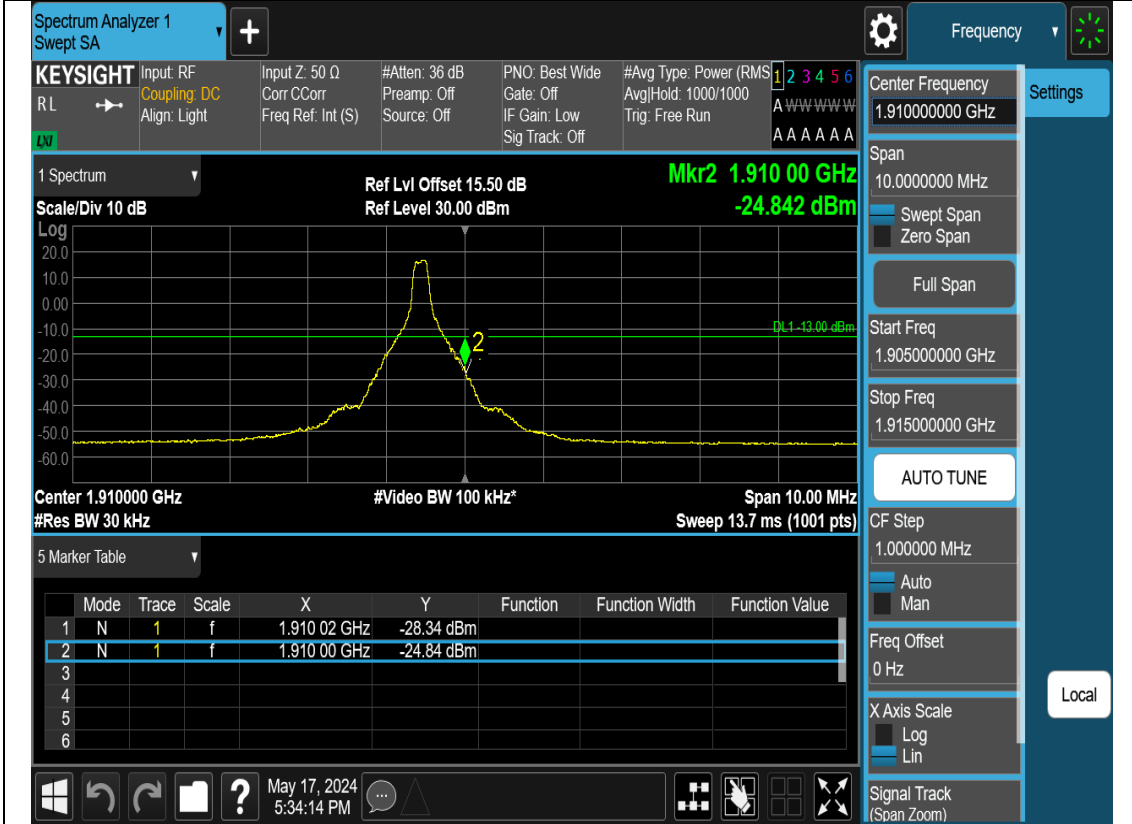
DL1 -13.00 dBm

Center 1.910000 GHz #Video BW 1.0 MHz* Span 40.00 MHz #Res BW 300 kHz Sweep 1.00 ms (1001 pts)

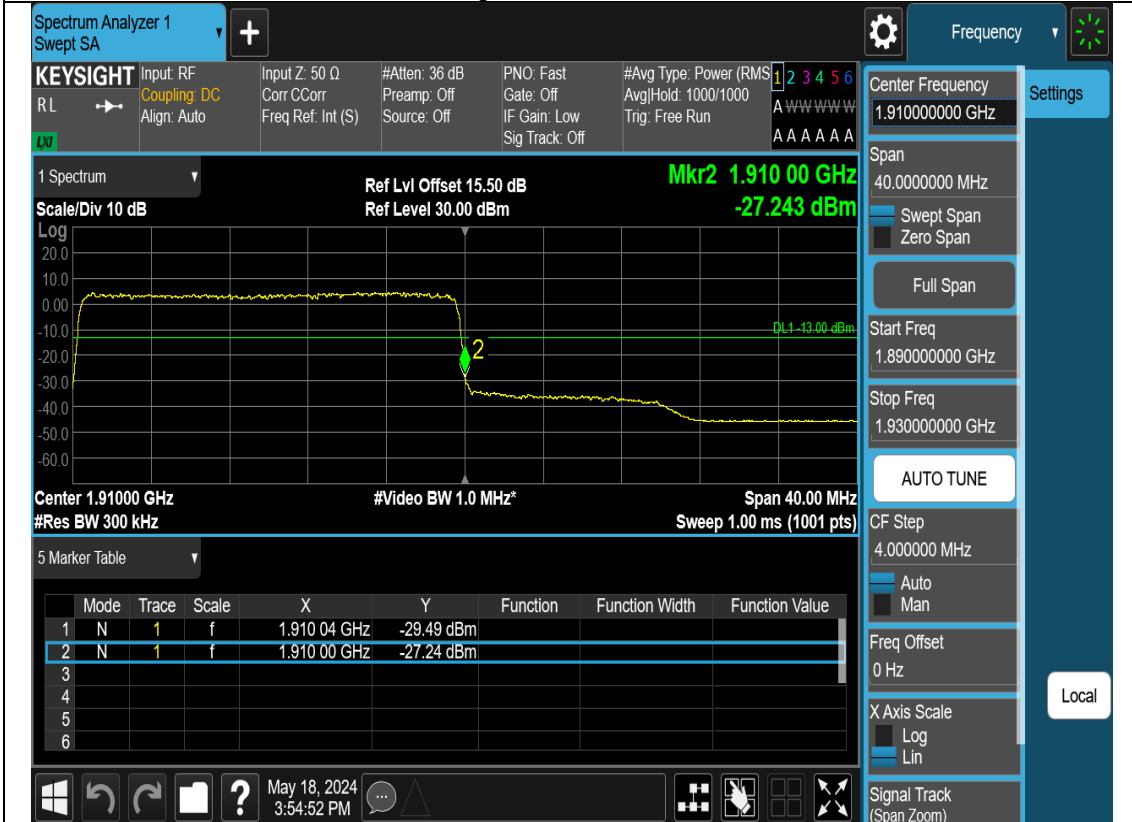
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.910 12 GHz	-32.21 dBm		
2	N	1	f	1.910 00 GHz	-33.10 dBm		
3							
4							
5							
6							

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N2-20M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-1RB_MAX



N2-20M-Bandedge-H-CP-OFDM-QPSK-Outer_Full



N2-20M-Bandedge-H-CP-OFDM-QPSK-1RB_MAX

Spectrum Analyzer 1
Swept SA

KEYSIGHT Input: RF Input Z: 50 Ω #Atten: 36 dB PNO: Best Wide #Avg Type: Power (RMS) 1 2 3 4 5 6
 RL Coupling: DC Corr: CCorr Preamp: Off Gate: Off Avg/Hold: 1000/1000 A www www
 Align: Auto Freq Ref: Int (S) Source: Off IF Gain: Low Trig: Free Run A A A A A A

1 Spectrum Ref Lvl Offset 15.50 dB **Mkr2 1.910 00 GHz**
 Scale/Div 10 dB Ref Level 30.00 dBm **-31.904 dBm**

Center 1.910000 GHz #Video BW 100 kHz* Span 10.00 MHz
 #Res BW 30 kHz Sweep 13.7 ms (1001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.910 03 GHz	-32.25 dBm		
2	N	1	f	1.910 00 GHz	-31.90 dBm		
3							
4							
5							
6							

Frequency

Center Frequency
1.910000000 GHz

Span
10.0000000 MHz

Swept Span
Zero Span

Full Span

Start Freq
1.905000000 GHz

Stop Freq
1.915000000 GHz

AUTO TUNE

CF Step
1.000000 MHz

Auto
Man

Freq Offset
0 Hz

X Axis Scale
Log
Lin

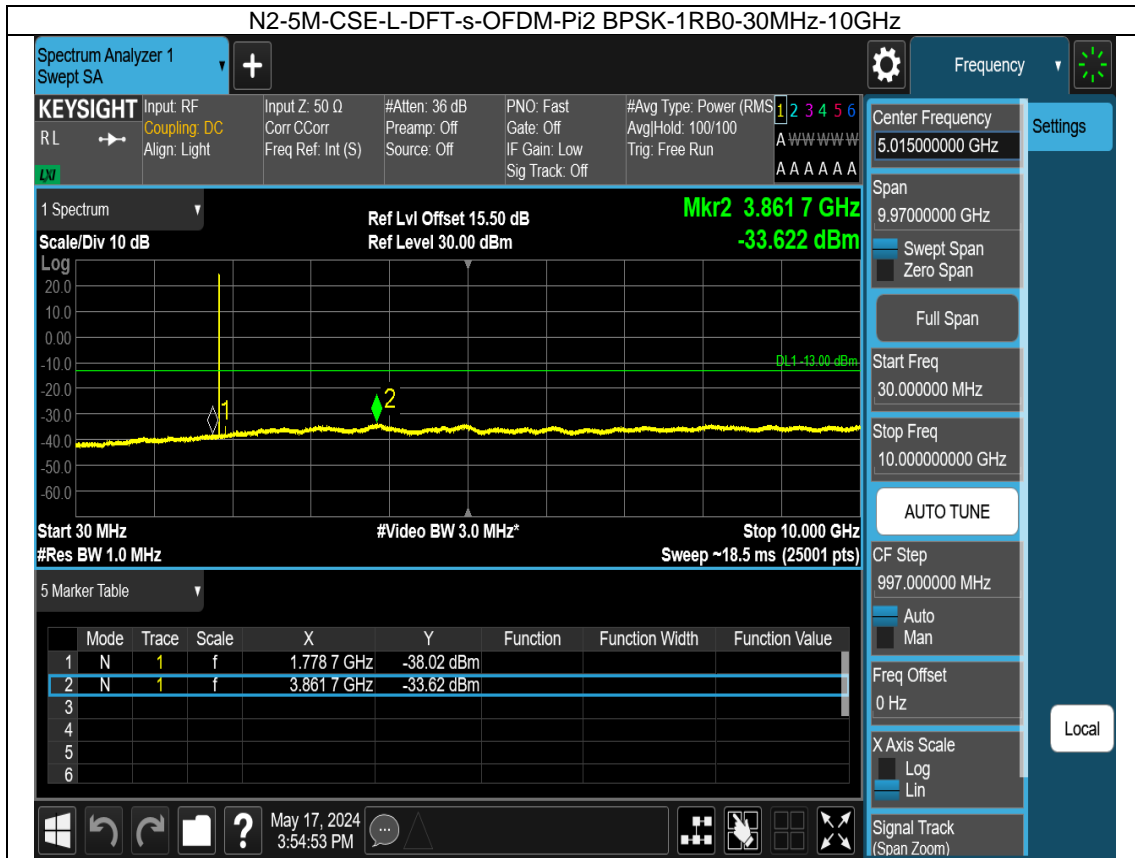
Signal Track
(Span Zoom)

Settings

Local

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Conducted spurious emissions test graph



N2-5M-CSE-L-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-20GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Input Z: 50 Ω #Atten: 36 dB PNO: Fast #Avg Type: Power (RMS) 1 2 3 4 5 6
 RL Coupling: DC Corr: C Corr Freq Ref: Int (S) Preamp: Off Gate: Off Avg/Hold: 100/100 A www www www
 Align: Light Source: Off IF Gain: Low Sig Track: Off Trig: Free Run A A A A A A

Center Frequency 15.000000000 GHz Settings

Span 10.00000000 GHz
 Swept Span
 Zero Span
 Full Span

Start Freq 10.000000000 GHz
 Stop Freq 20.000000000 GHz
 AUTO TUNE

CF Step 1.000000000 GHz
 Auto
 Man

Freq Offset 0 Hz

X Axis Scale Log Lin

Signal Track (Span Zoom)

1 Spectrum Ref Lvl Offset 15.50 dB Mkr1 19.107 78 GHz
 Scale/Div 10 dB Ref Level 30.00 dBm -31.878 dBm

Log 20.0
 10.0
 0.00
 -10.0
 -20.0
 -30.0
 -40.0
 -50.0
 -60.0

Start 10.000 GHz #Video BW 3.0 MHz* Stop 20.000 GHz
 #Res BW 1.0 MHz Sweep ~19.5 ms (36001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	19.107 78 GHz			-31.88 dBm
2							
3							
4							
5							
6							

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N2-5M-CSE-L-CP-OFDM-QPSK-1RB0-30MHz- 10GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Input Z: 50 Ω #Atten: 36 dB PNO: Fast #Avg Type: Power (RMS) 1 2 3 4 5 6
 RL Coupling: DC Corr: C Corr Freq Ref: Int (S) Preamp: Off Gate: Off Avg/Hold: 100/100 A www www www
 Align: Light Source: Off IF Gain: Low Sig Track: Off Trig: Free Run A A A A A A

Center Frequency 5.015000000 GHz Settings

Span 9.970000000 GHz
 Swept Span
 Zero Span
 Full Span

Start Freq 30.00000000 MHz
 Stop Freq 10.000000000 GHz
 AUTO TUNE

CF Step 997.0000000 MHz
 Auto
 Man

Freq Offset 0 Hz

X Axis Scale Log Lin

Signal Track (Span Zoom)

1 Spectrum Ref Lvl Offset 15.50 dB Mkr2 1.934 3 GHz
 Scale/Div 10 dB Ref Level 30.00 dBm -32.960 dBm

Log 20.0
 10.0
 0.00
 -10.0
 -20.0
 -30.0
 -40.0
 -50.0
 -60.0

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

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.724 1 GHz			-38.12 dBm
2	N	1	f	1.934 3 GHz			-32.96 dBm
3							
4							
5							
6							

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N2-5M-CSE-L-CP-OFDM-QPSK-1RB0-10GHz-20GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Input Z: 50 Ω #Atten: 36 dB PNO: Fast #Avg Type: Power (RMS) 1 2 3 4 5 6
 RL Coupling: DC Corr C/Corr Preamp: Off Gate: Off Avg/Hold: 100/100 A www www www
 Align: Light Freq Ref: Int (S) Source: Off IF Gain: Low Trig: Free Run A A A A A A

Center Frequency 15.000000000 GHz Settings

Span 10.00000000 GHz
 Swept Span
 Zero Span
 Full Span

Start Freq 10.000000000 GHz
 Stop Freq 20.000000000 GHz
 AUTO TUNE

CF Step 1.000000000 GHz
 Auto
 Man

Freq Offset 0 Hz
 X Axis Scale Log Lin
 Signal Track (Span Zoom)

1 Spectrum Ref Lvl Offset 15.50 dB Mkr1 19.955 28 GHz
 Scale/Div 10 dB Ref Level 30.00 dBm -32.154 dBm

Log 20.0
 10.0
 0.00
 -10.0
 -20.0
 -30.0
 -40.0
 -50.0
 -60.0

Start 10.000 GHz #Video BW 3.0 MHz* Stop 20.000 GHz
 #Res BW 1.0 MHz Sweep ~19.5 ms (36001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	19.955 28 GHz	-32.15 dBm		
2							
3							
4							
5							
6							

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N2-5M-CSE-M-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Input Z: 50 Ω #Atten: 36 dB PNO: Fast #Avg Type: Power (RMS) 1 2 3 4 5 6
 RL Coupling: DC Corr C/Corr Preamp: Off Gate: Off Avg/Hold: 100/100 A www www www
 Align: Light Freq Ref: Int (S) Source: Off IF Gain: Low Trig: Free Run A A A A A A

Center Frequency 5.015000000 GHz Settings

Span 9.970000000 GHz
 Swept Span
 Zero Span
 Full Span

Start Freq 30.00000000 MHz
 Stop Freq 10.000000000 GHz
 AUTO TUNE

CF Step 997.0000000 MHz
 Auto
 Man

Freq Offset 0 Hz
 X Axis Scale Log Lin
 Signal Track (Span Zoom)

1 Spectrum Ref Lvl Offset 15.50 dB Mkr2 3.841 3 GHz
 Scale/Div 10 dB Ref Level 30.00 dBm -33.876 dBm

Log 20.0
 10.0
 0.00
 -10.0
 -20.0
 -30.0
 -40.0
 -50.0
 -60.0

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

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.651 5 GHz	-38.13 dBm		
2	N	1	f	3.841 3 GHz	-33.88 dBm		
3							
4							
5							
6							

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N2-5M-CSE-M-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-20GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Light

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 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 15.000000000 GHz

Span 10.0000000 GHz

Start Freq 10.000000000 GHz

Stop Freq 20.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB

Ref Level 30.00 dBm

Mkr1 19.137 22 GHz -31.974 dBm

DL1 -13.00 dBm

Start 10.000 GHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 20.000 GHz Sweep ~19.5 ms (36001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	19.137 22 GHz			-31.97 dBm
2							
3							
4							
5							
6							

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N2-5M-CSE-M-CP-OFDM-QPSK-1RB0-30MHz-10GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Light

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 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 30.0000000 MHz

Stop Freq 10.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB

Ref Level 30.00 dBm

Mkr2 1.960 6 GHz -32.165 dBm

DL1 -13.00 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	1.805 5 GHz			-37.97 dBm
2	N	1	f	1.960 6 GHz			-32.17 dBm
3							
4							
5							
6							

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N2-5M-CSE-M-CP-OFDM-QPSK-1RB0-10GHz-20GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Light

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 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 15.000000000 GHz

Span 10.0000000 GHz

Start Freq 10.000000000 GHz

Stop Freq 20.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB

Ref Level 30.00 dBm

Mkr1 19.177 22 GHz -31.892 dBm

DL1 -13.00 dBm

Start 10.000 GHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 20.000 GHz Sweep ~19.5 ms (36001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	19.177 22 GHz	-31.89 dBm		
2							
3							
4							
5							
6							

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N2-5M-CSE-H-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Light

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 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 30.0000000 MHz

Stop Freq 10.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB

Ref Level 30.00 dBm

Mkr2 1.987 3 GHz -30.126 dBm

DL1 -13.00 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	1.829 4 GHz	-38.03 dBm		
2	N	1	f	1.987 3 GHz	-30.13 dBm		
3							
4							
5							
6							

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