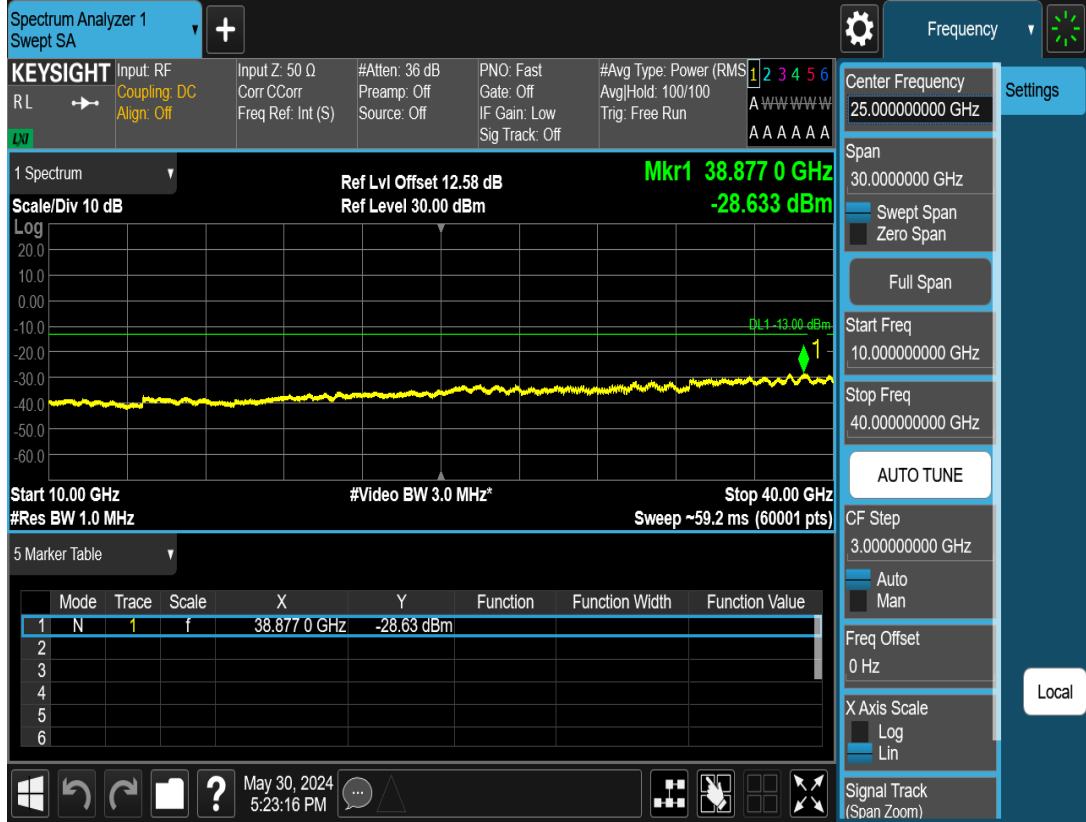
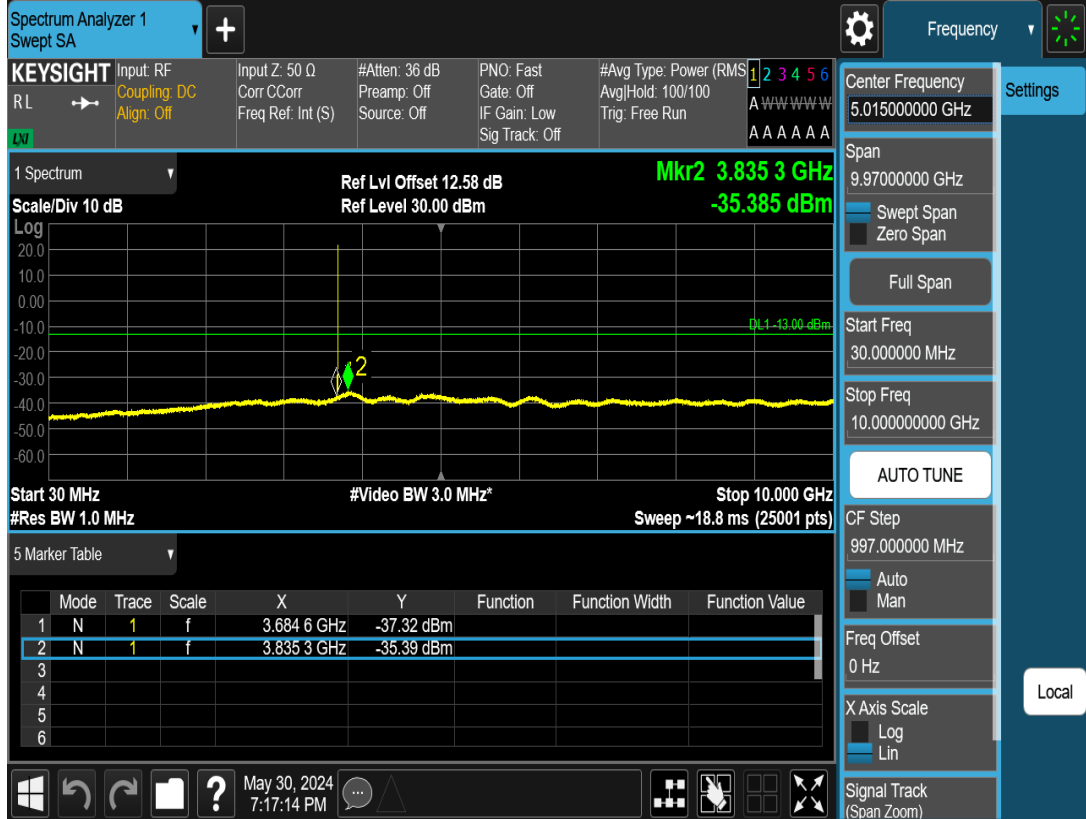


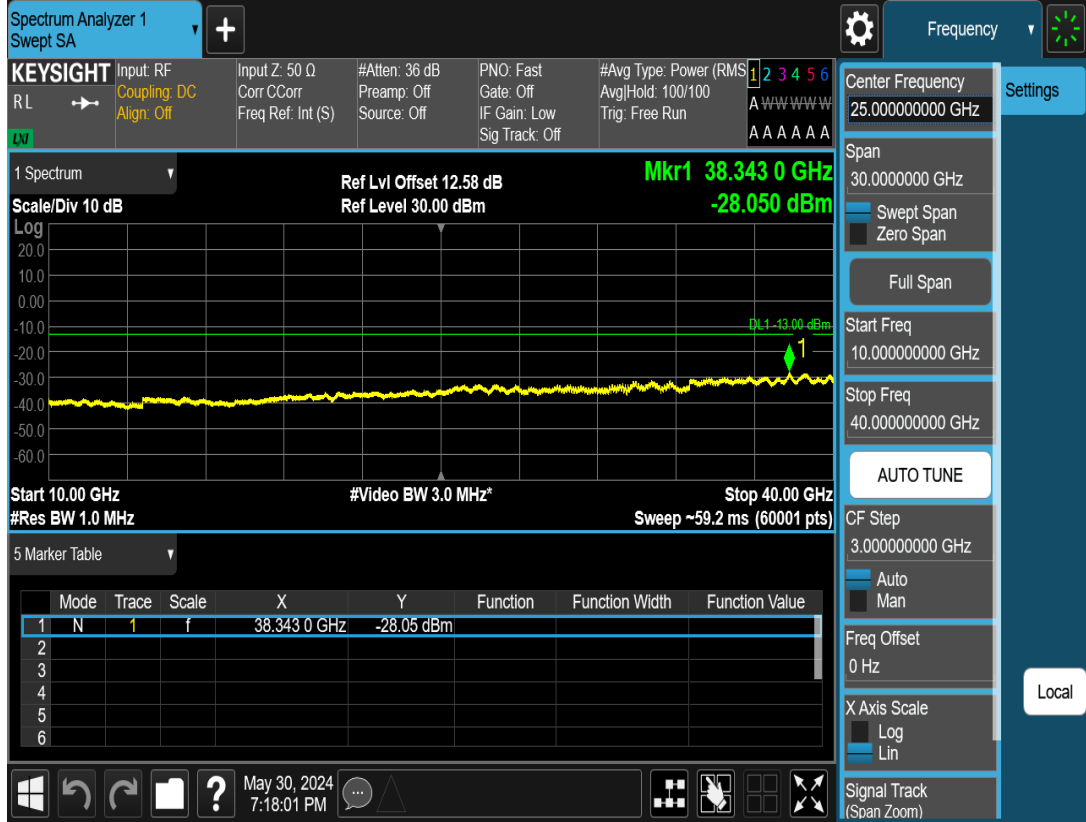
N78b(3700-3800MHz)-10M-CSE-L-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-40GHz



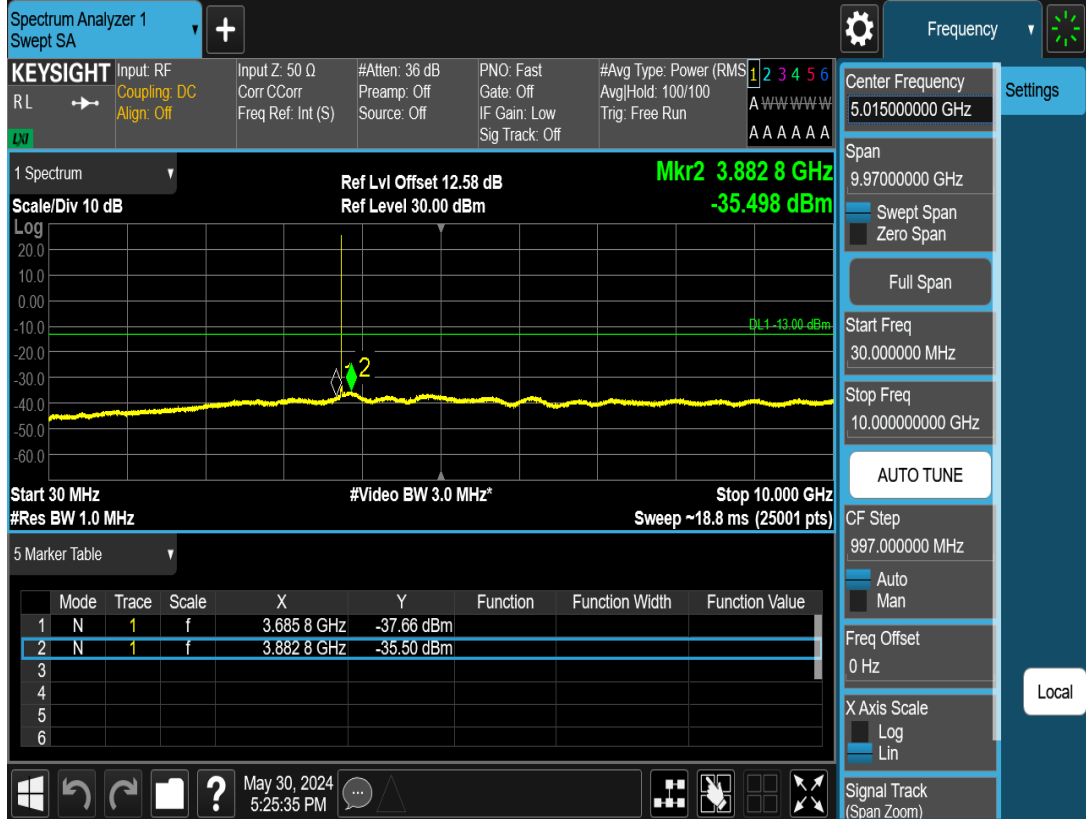
N78b(3700-3800MHz)-10M-CSE-L-CP-OFDM-QPSK-1RB0-30MHz-10GHz



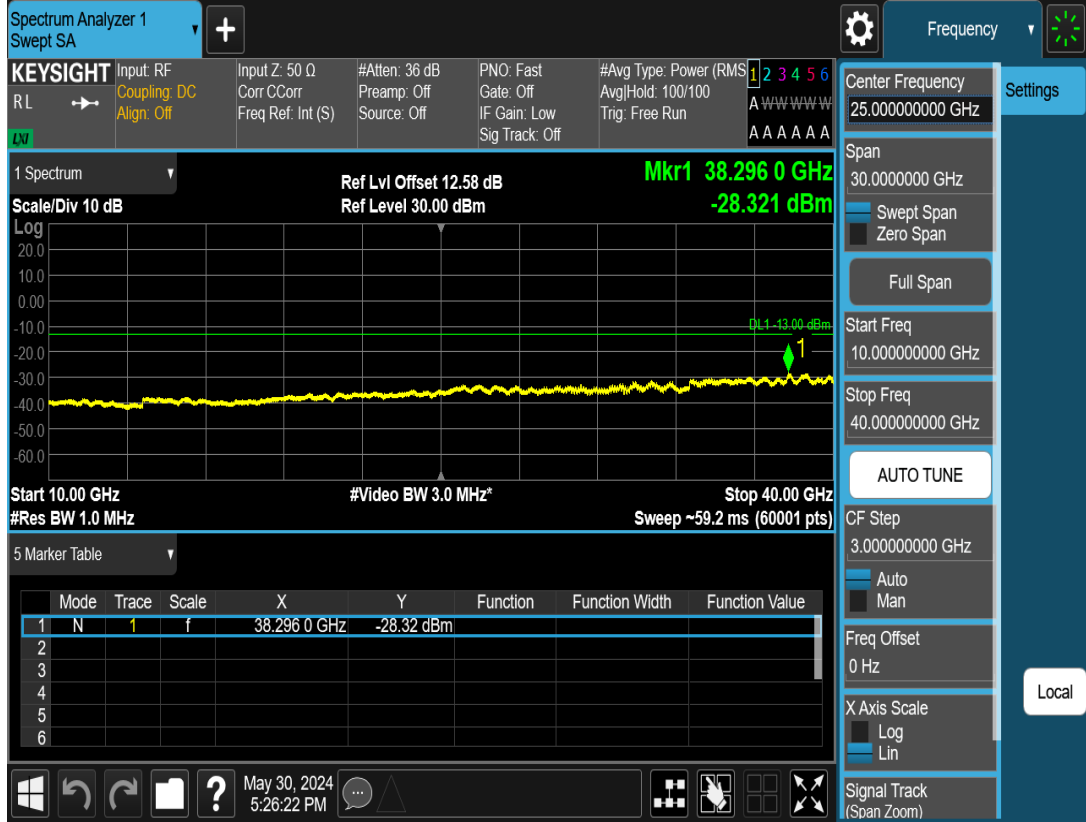
N78b(3700-3800MHz)-10M-CSE-L-CP-OFDM-QPSK-1RB0-10GHz-40GHz



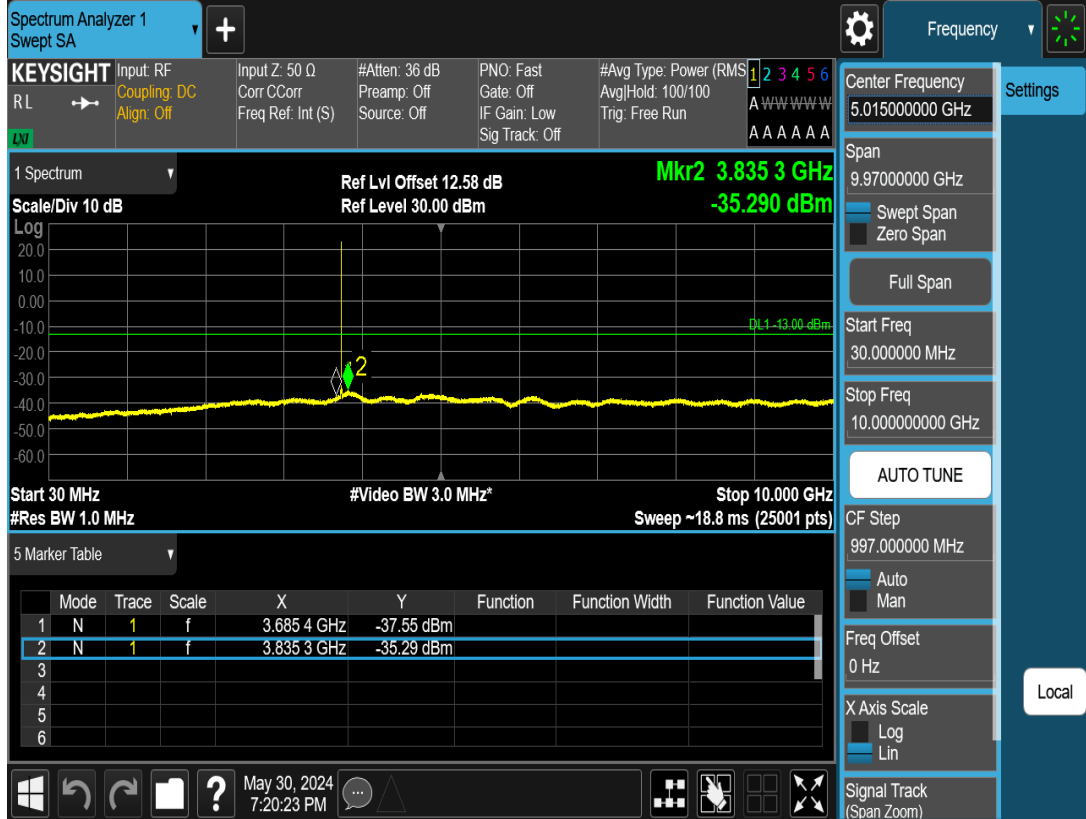
N78b(3700-3800MHz)-10M-CSE-M-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz



N78b(3700-3800MHz)-10M-CSE-M-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-40GHz



N78b(3700-3800MHz)-10M-CSE-M-CP-OFDM-QPSK-1RB0-30MHz-10GHz



N78b(3700-3800MHz)-10M-CSE-M-CP-OFDM-QPSK-1RB0-10GHz-40GHz

**Spectrum Analyzer 1**  
Swept SA

**KEYSIGHT** Input RF  
RL ➔ Coupling: DC  
Align: Off

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

Frequency ⊗

Center Frequency  
25.000000000 GHz

Span  
30.0000000 GHz

Swept Span  
Zero Span

Full Span

Start Freq  
10.000000000 GHz

Stop Freq  
40.000000000 GHz

AUTO TUNE

CF Step  
3.000000000 GHz

Auto  
Man

Freq Offset  
0 Hz

X Axis Scale  
Log  
Lin

Signal Track  
(Span Zoom)

Settings

Local

1 Spectrum Mkr1 38.334 0 GHz  
-28.320 dBm

Scale/Div 10 dB Ref Lvl Offset 12.58 dB  
Ref Level 30.00 dBm

Start 10.00 GHz #Video BW 3.0 MHz\* Stop 40.00 GHz  
#Res BW 1.0 MHz Sweep ~59.2 ms (60001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	38.334 0 GHz	-28.32 dBm		
2							
3							
4							
5							
6							

May 30, 2024 7:21:11 PM

N78b(3700-3800MHz)-10M-CSE-H-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz

**Spectrum Analyzer 1**  
Swept SA

**KEYSIGHT** Input RF  
RL ➔ Coupling: DC  
Align: Off

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

Frequency ⊗

Center Frequency  
5.015000000 GHz

Span  
9.970000000 GHz

Swept Span  
Zero Span

Full Span

Start Freq  
30.0000000 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)

Settings

Local

1 Spectrum Mkr2 3.856 1 GHz  
-35.440 dBm

Scale/Div 10 dB Ref Lvl Offset 12.58 dB  
Ref Level 30.00 dBm

Start 30 MHz #Video BW 3.0 MHz\* Stop 10.000 GHz  
#Res BW 1.0 MHz Sweep ~18.8 ms (25001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	3.689 8 GHz	-37.63 dBm		
2	N	1	f	3.856 1 GHz	-35.44 dBm		
3							
4							
5							
6							

May 30, 2024 5:30:46 PM

N78b(3700-3800MHz)-10M-CSE-H-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-40GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Off

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: 25.00000000 GHz

Span: 30.00000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 12.58 dB Ref Level 30.00 dBm

Mkr1 38.948 5 GHz -28.585 dBm

Start 10.00 GHz #Res BW 1.0 MHz #Video BW 3.0 MHz\* Stop 40.00 GHz Sweep ~59.2 ms (60001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	38.948 5 GHz			-28.585 dBm
2							
3							
4							
5							
6							

May 30, 2024 5:31:34 PM

N78b(3700-3800MHz)-10M-CSE-H-CP-OFDM-QPSK-1RB0-30MHz-10GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Off

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

Scale/Div 10 dB

Ref Lvl Offset 12.58 dB Ref Level 30.00 dBm

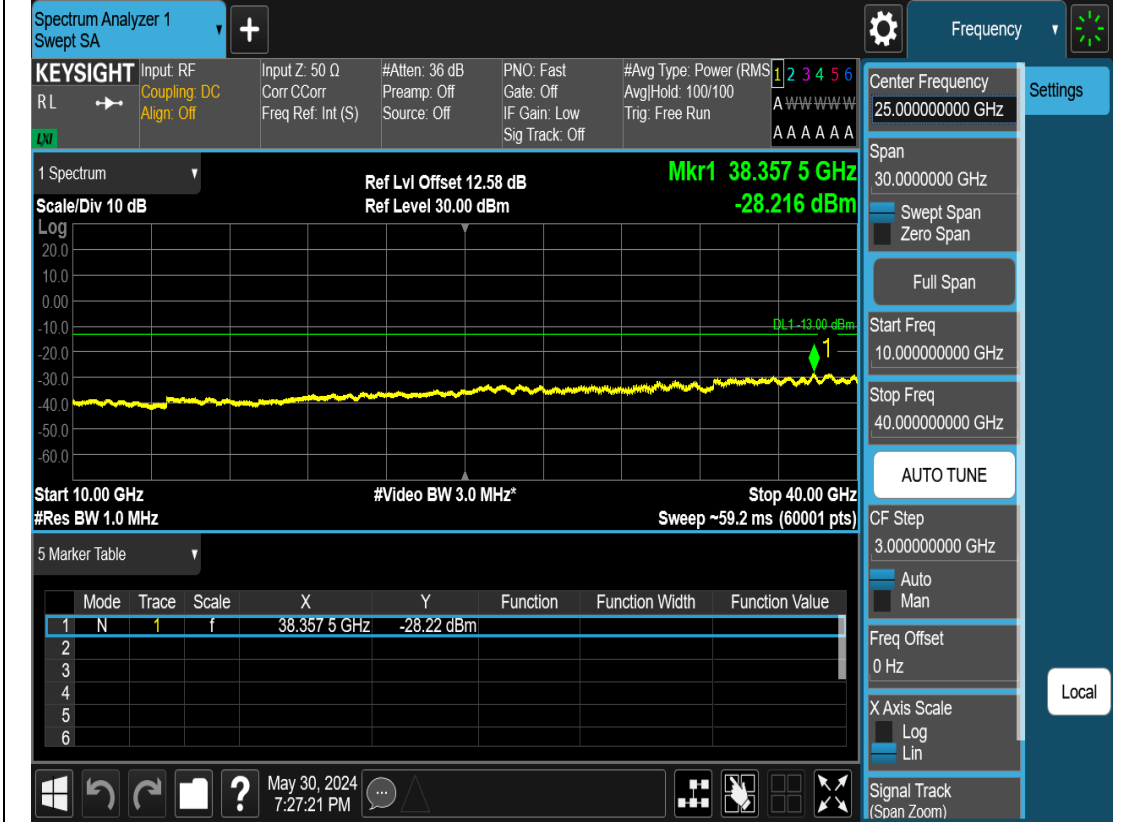
Mkr2 3.829 8 GHz -35.455 dBm

Start 30 MHz #Res BW 1.0 MHz #Video BW 3.0 MHz\* Stop 10.000 GHz Sweep ~18.8 ms (25001 pts)

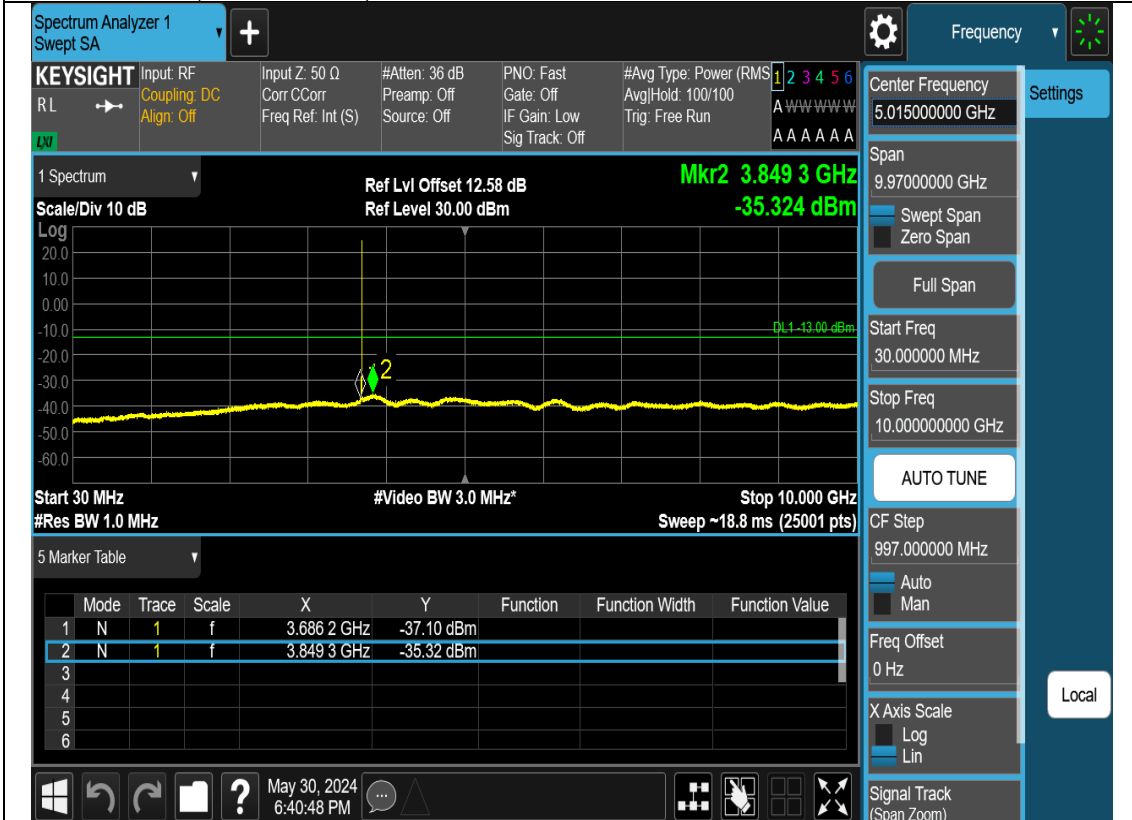
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	3.680 2 GHz			-37.85 dBm
2	N	1	f	3.829 8 GHz			-35.45 dBm
3							
4							
5							
6							

May 30, 2024 7:26:34 PM

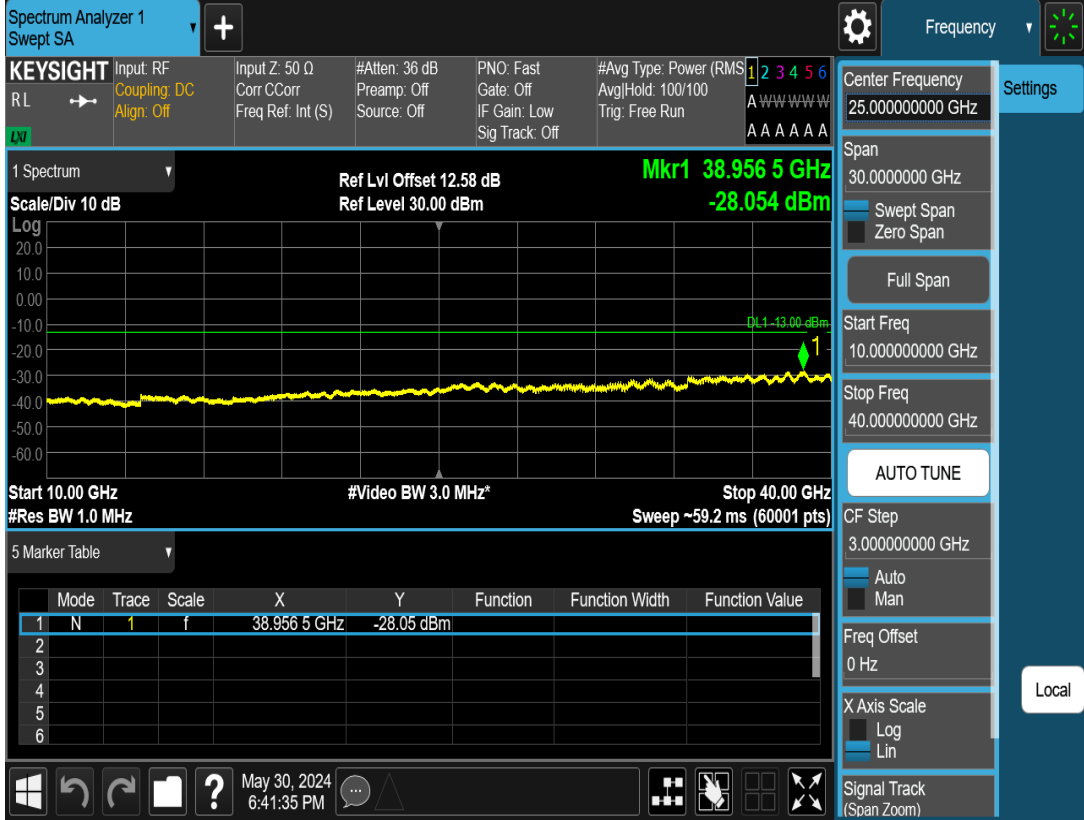
N78b(3700-3800MHz)-10M-CSE-H-CP-OFDM-QPSK-1RB0-10GHz-40GHz



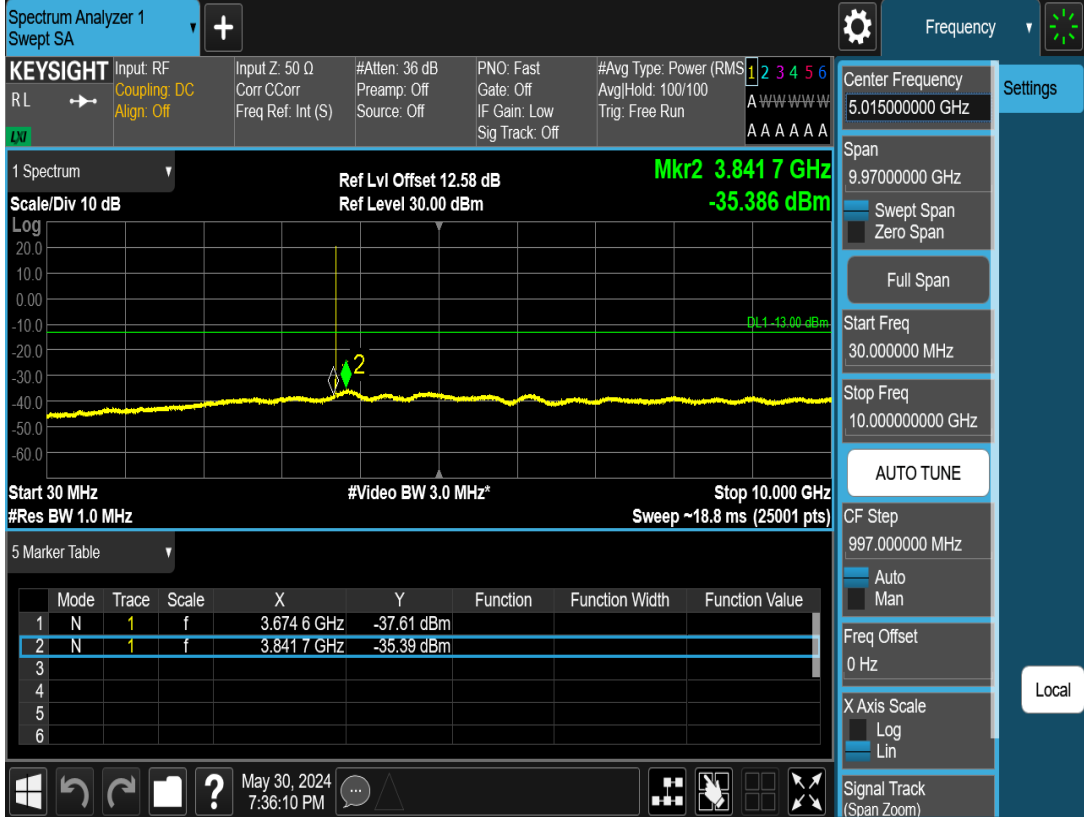
N78b(3700-3800MHz)-15M-CSE-L-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz



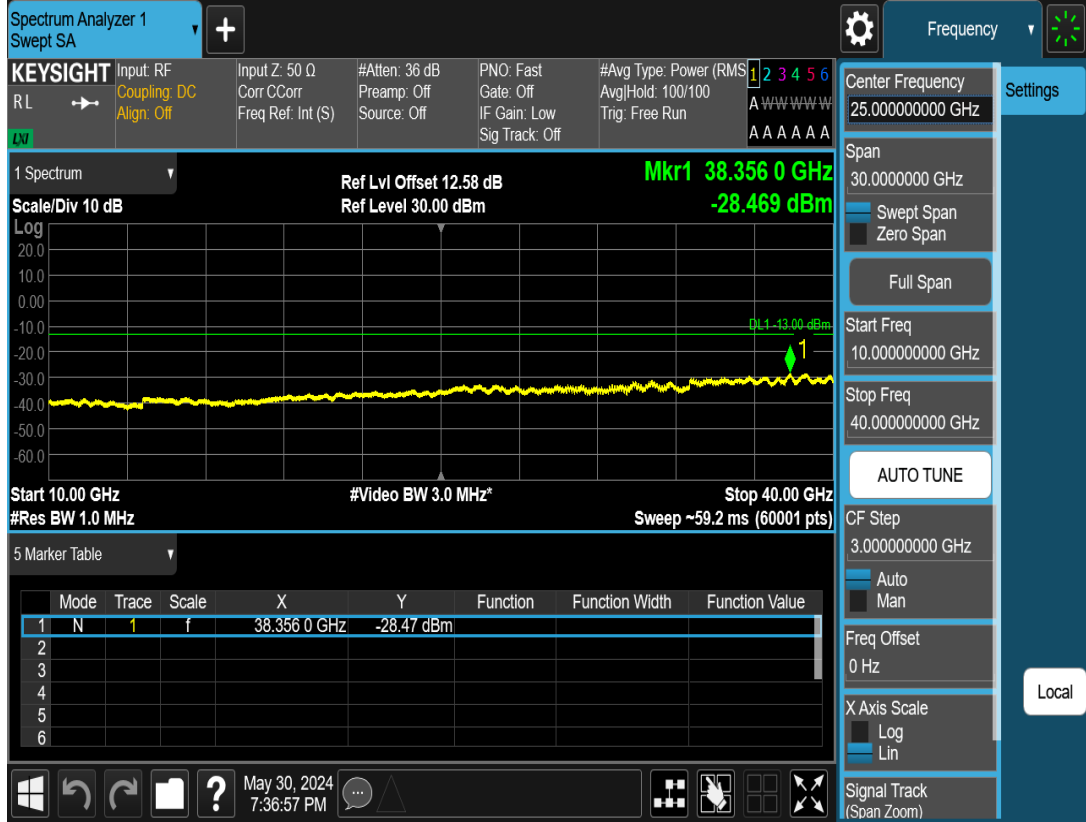
N78b(3700-3800MHz)-15M-CSE-L-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-40GHz



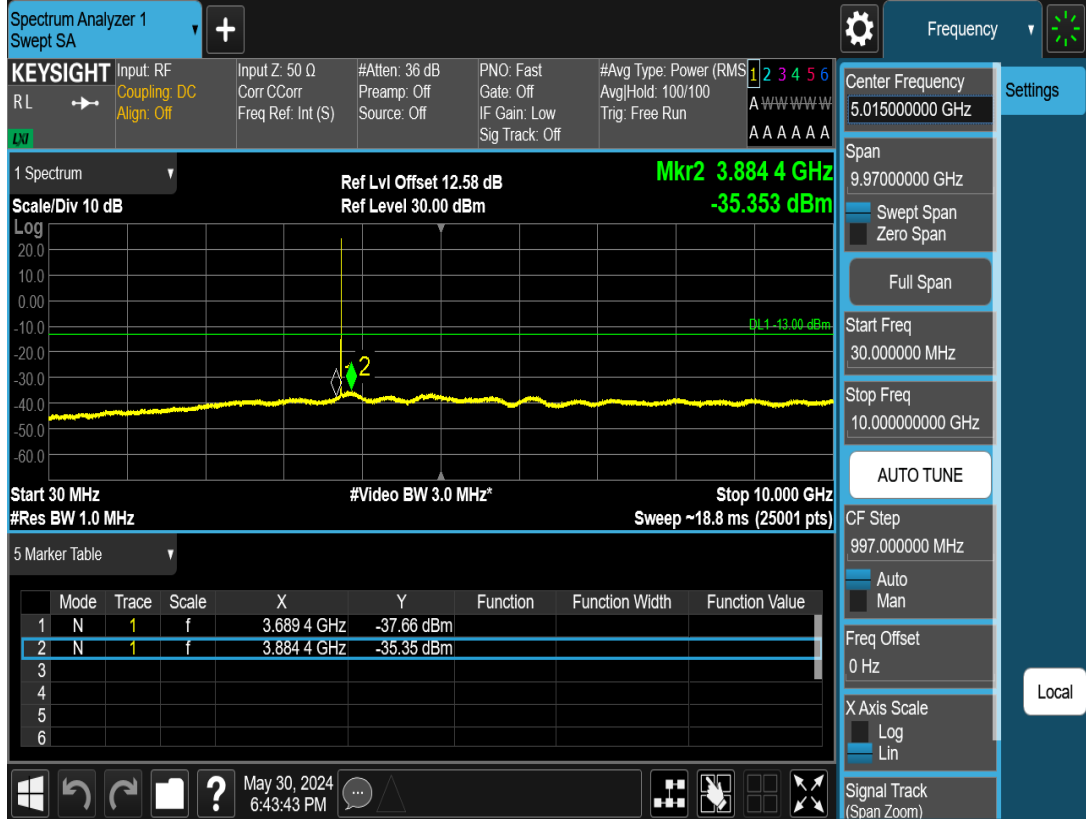
N78b(3700-3800MHz)-15M-CSE-L-CP-OFDM-QPSK-1RB0-30MHz-10GHz



N78b(3700-3800MHz)-15M-CSE-L-CP-OFDM-QPSK-1RB0-10GHz-40GHz

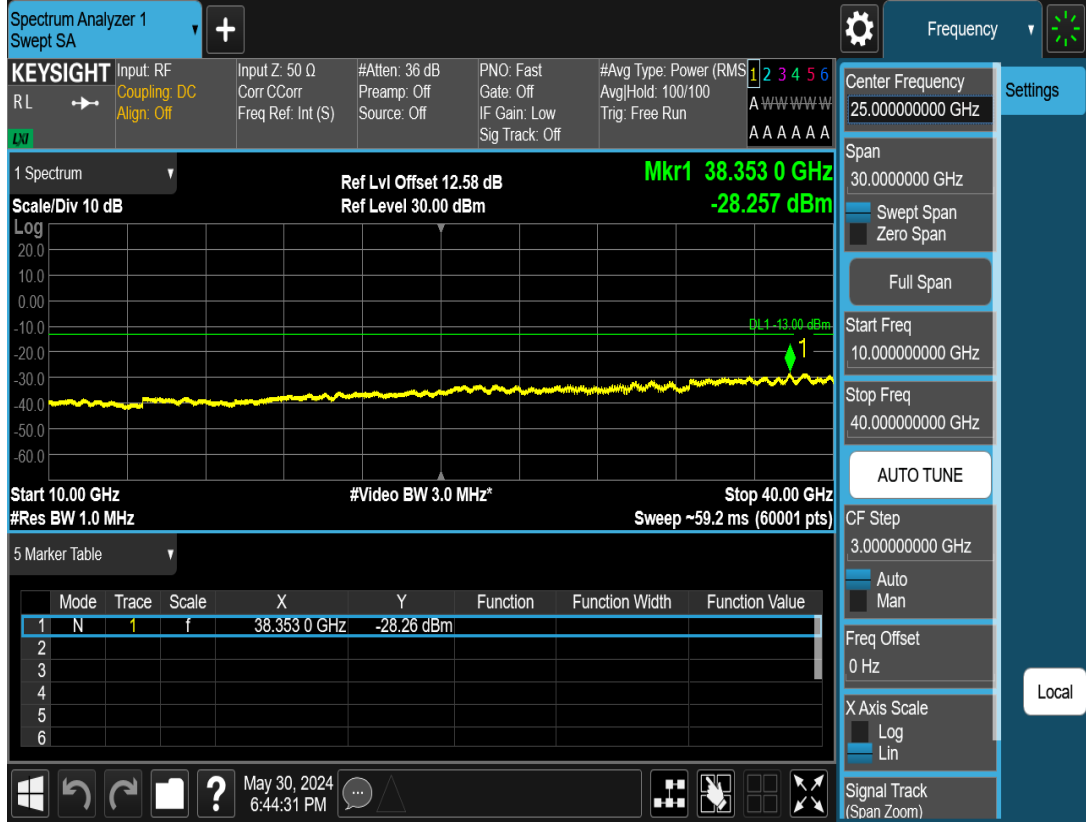


N78b(3700-3800MHz)-15M-CSE-M-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz

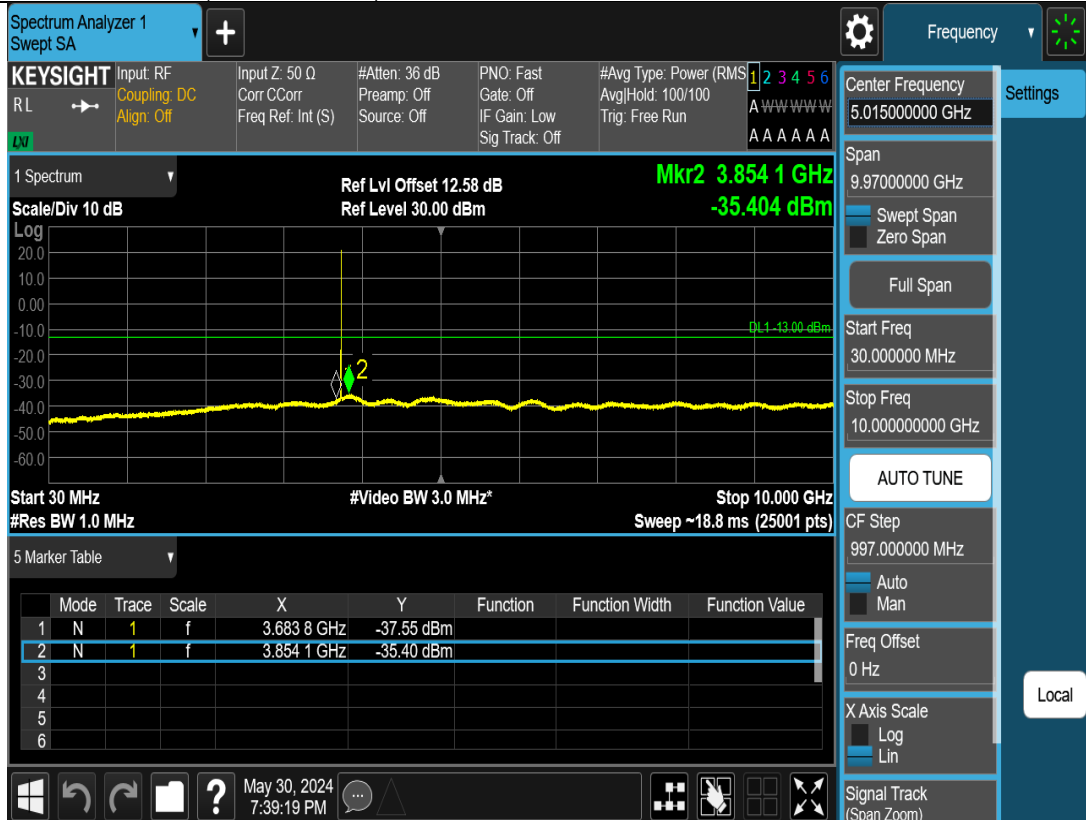




N78b(3700-3800MHz)-15M-CSE-M-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-40GHz



N78b(3700-3800MHz)-15M-CSE-M-CP-OFDM-QPSK-1RB0-30MHz-10GHz



N78b(3700-3800MHz)-15M-CSE-M-CP-OFDM-QPSK-1RB0-10GHz-40GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Off

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: 25.00000000 GHz

Span: 30.00000000 GHz

Start Freq: 10.00000000 GHz

Stop Freq: 40.00000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 12.58 dB

Ref Level 30.00 dBm

Mkr1 38.369 0 GHz -28.189 dBm

Start 10.00 GHz #Res BW 1.0 MHz #Video BW 3.0 MHz\* Stop 40.00 GHz Sweep ~59.2 ms (60001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	38.369 0 GHz	-28.19 dBm		
2							
3							
4							
5							
6							

May 30, 2024 7:40:06 PM

N78b(3700-3800MHz)-15M-CSE-H-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Off

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: 30.000000 MHz

Stop Freq: 10.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 12.58 dB

Ref Level 30.00 dBm

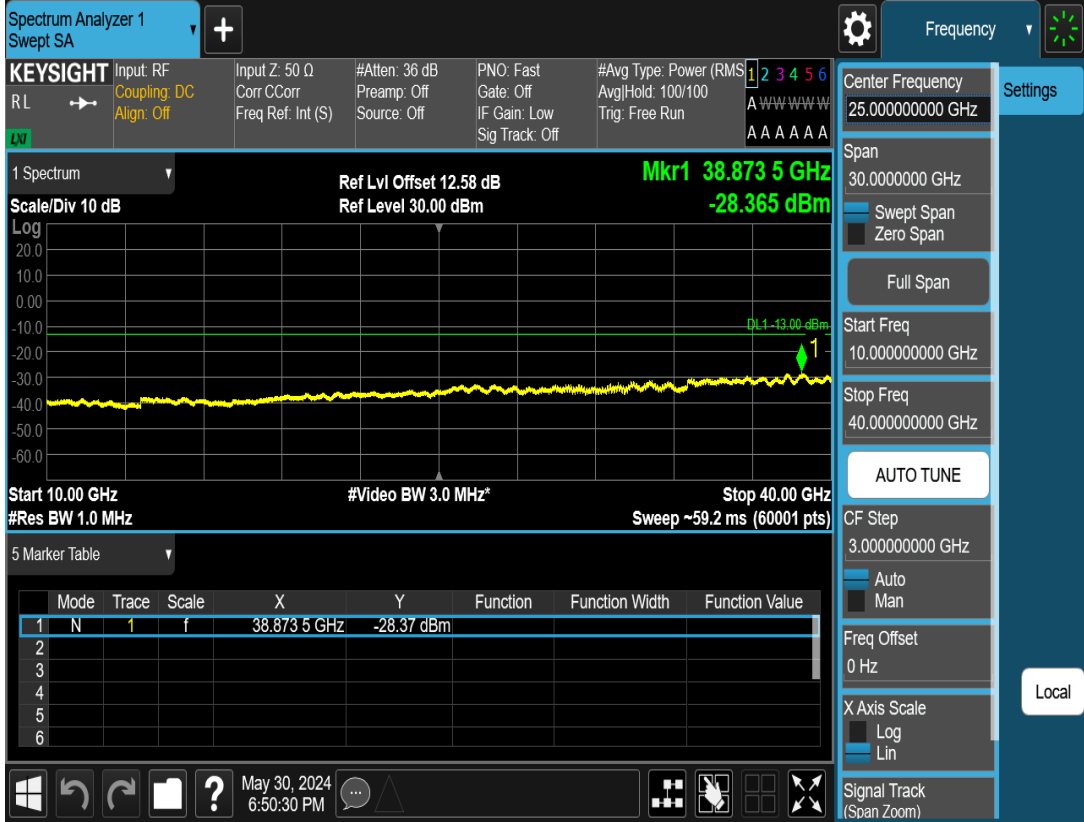
Mkr2 3.854 5 GHz -35.290 dBm

Start 30 MHz #Res BW 1.0 MHz #Video BW 3.0 MHz\* Stop 10.000 GHz Sweep ~18.8 ms (25001 pts)

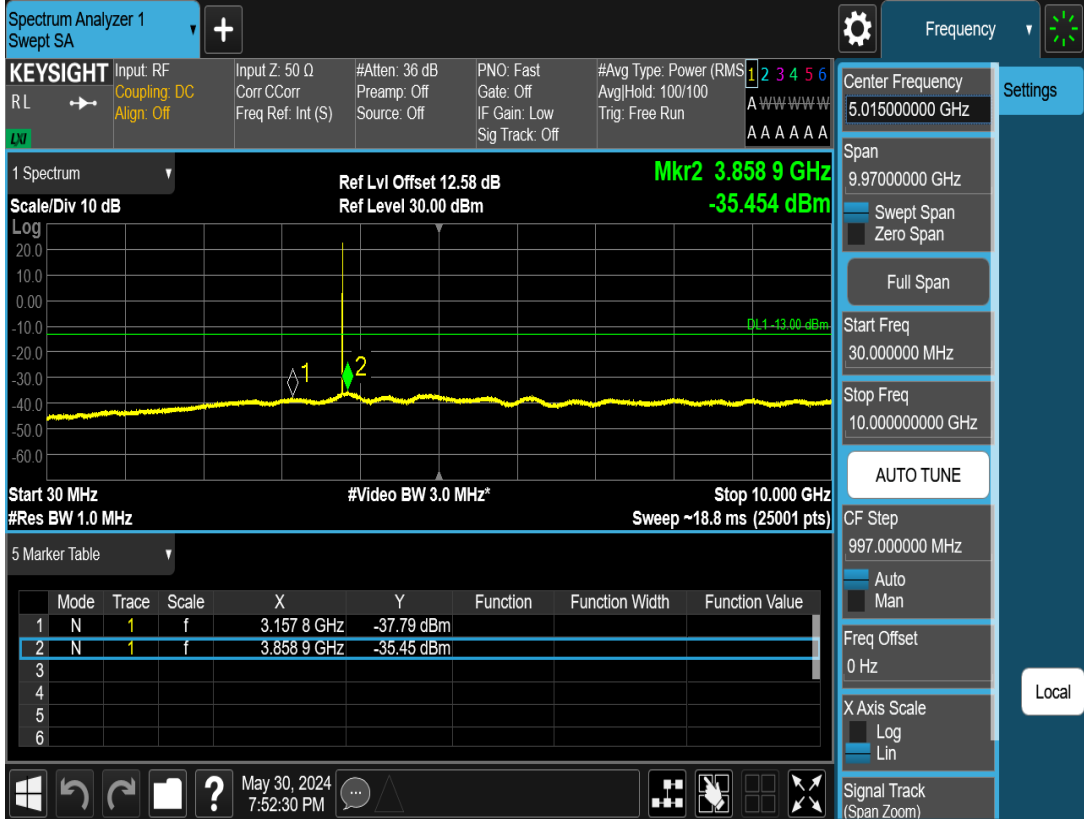
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	3.675 0 GHz	-37.47 dBm		
2	N	1	f	3.854 5 GHz	-35.29 dBm		
3							
4							
5							
6							

May 30, 2024 6:49:42 PM

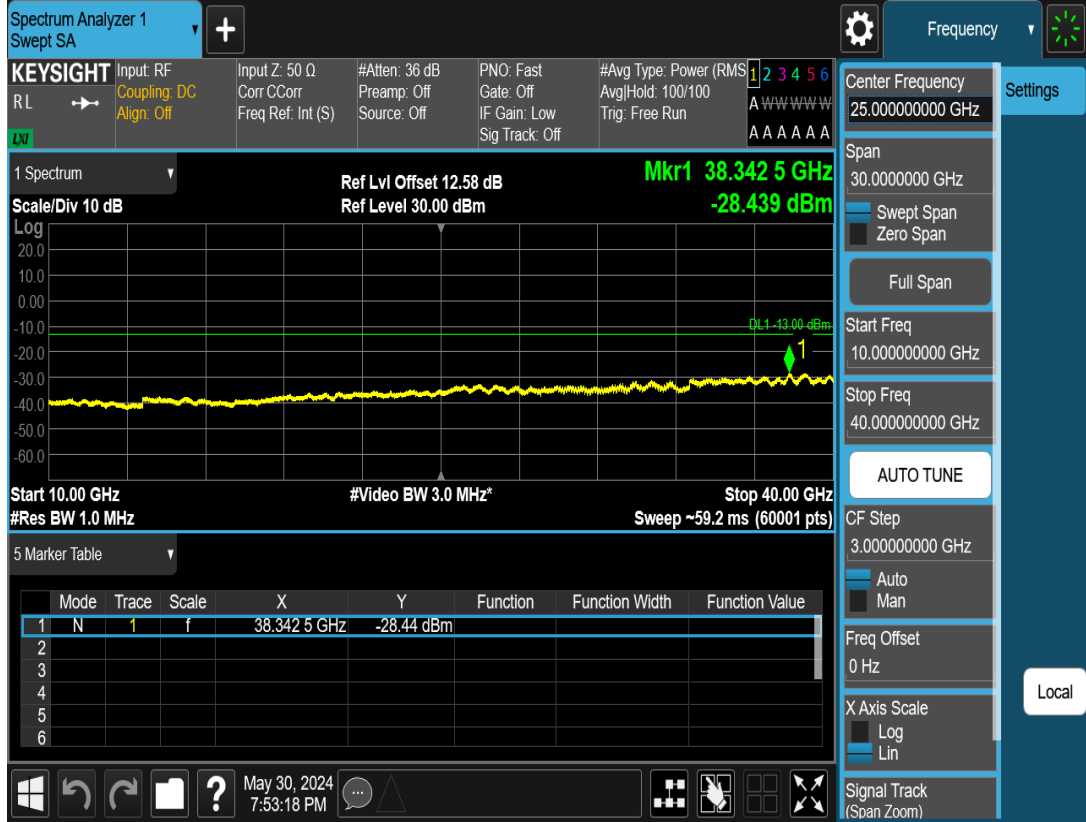
N78b(3700-3800MHz)-15M-CSE-H-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-40GHz



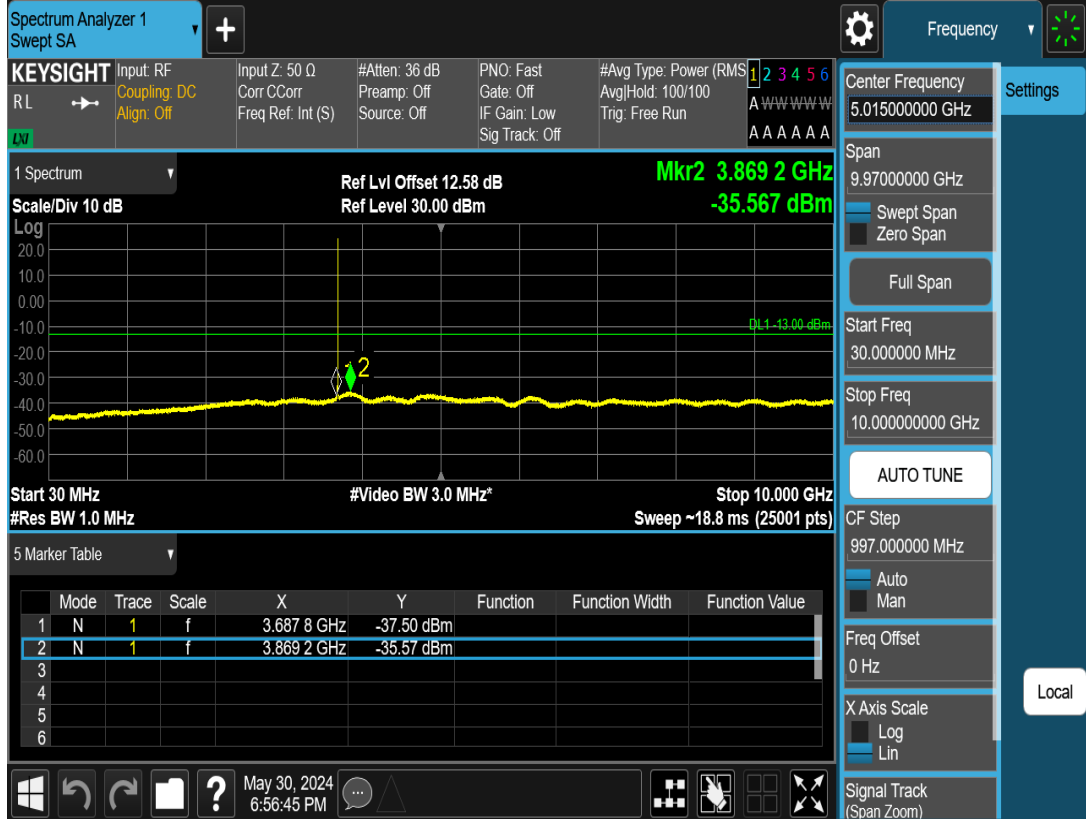
N78b(3700-3800MHz)-15M-CSE-H-CP-OFDM-QPSK-1RB0-30MHz-10GHz



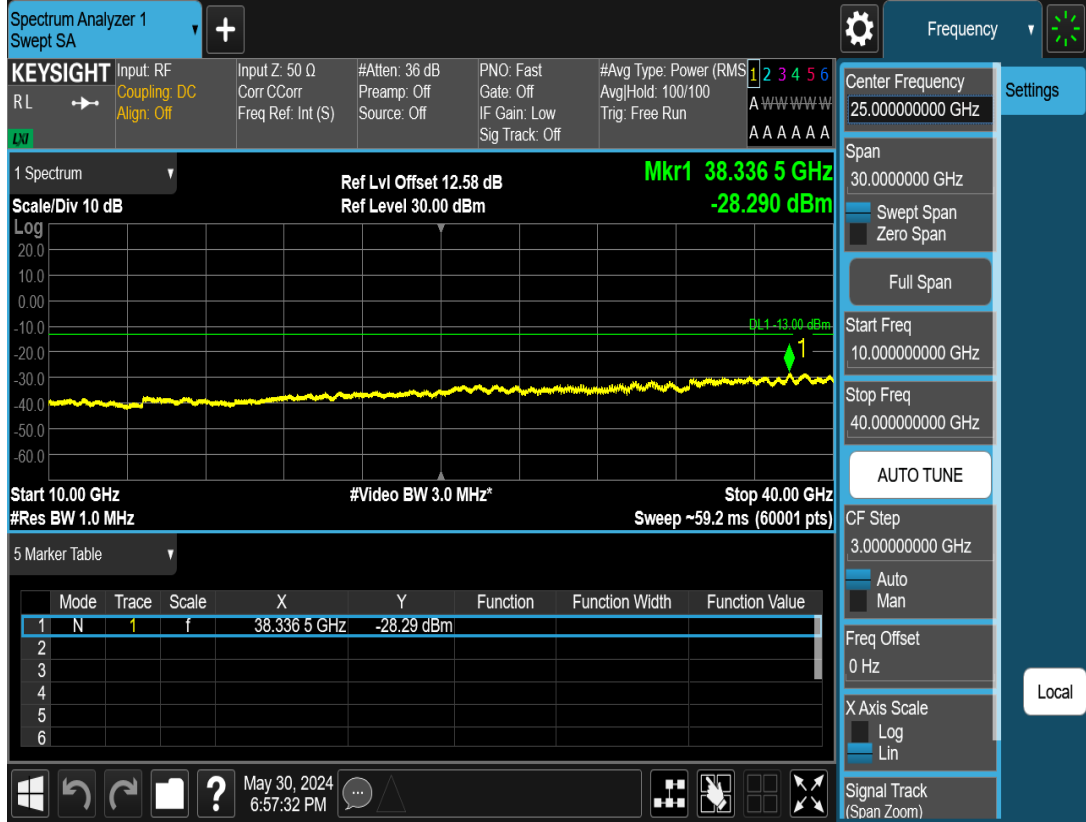
N78b(3700-3800MHz)-15M-CSE-H-CP-OFDM-QPSK-1RB0-10GHz-40GHz



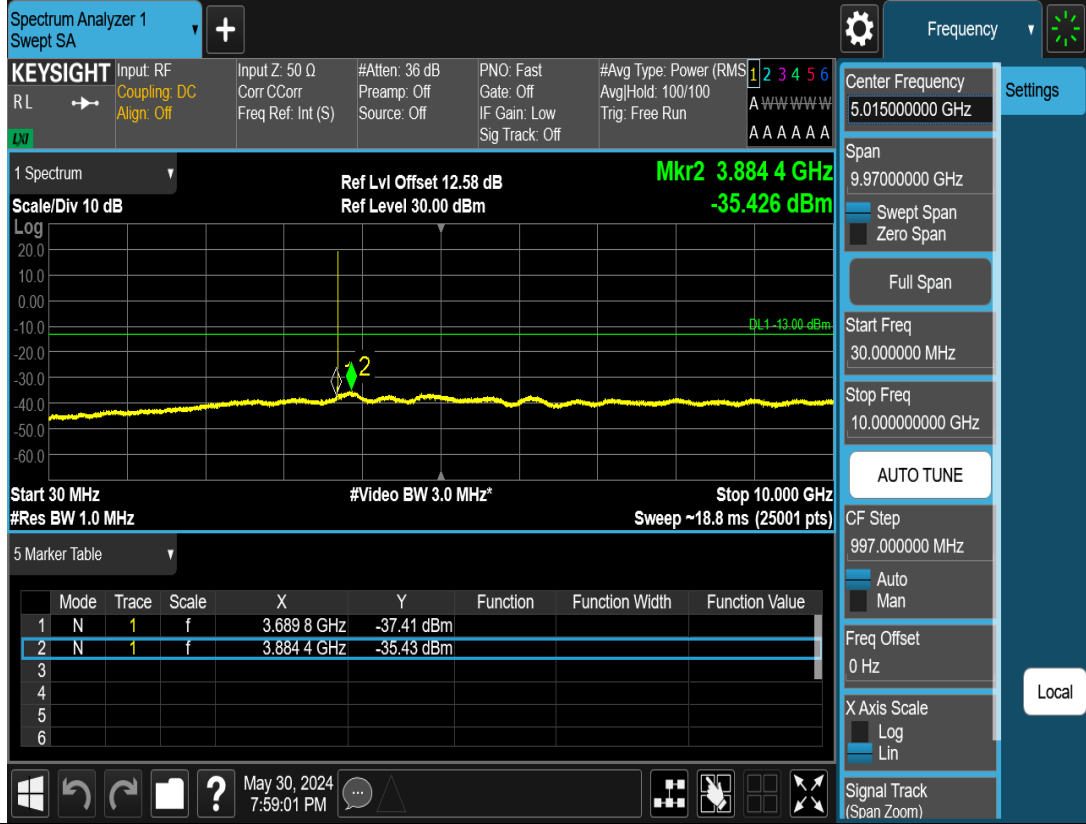
N78b(3700-3800MHz)-20M-CSE-L-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz



N78b(3700-3800MHz)-20M-CSE-L-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-40GHz



N78b(3700-3800MHz)-20M-CSE-L-CP-OFDM-QPSK-1RB0-30MHz-10GHz



N78b(3700-3800MHz)-20M-CSE-L-CP-OFDM-QPSK-1RB0-10GHz-40GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Off

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: 25.000000000 GHz

Span: 30.000000000 GHz

Start Freq: 10.000000000 GHz

Stop Freq: 40.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 12.58 dB

Ref Level 30.00 dBm

Mkr1 38.333 0 GHz -28.345 dBm

Log

Start 10.00 GHz #Res BW 1.0 MHz #Video BW 3.0 MHz\* Stop 40.00 GHz Sweep ~59.2 ms (60001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	38.333 0 GHz	-28.34 dBm		
2							
3							
4							
5							
6							

May 30, 2024 7:59:49 PM

N78b(3700-3800MHz)-20M-CSE-M-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Off

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: 30.000000000 MHz

Stop Freq: 10.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 12.58 dB

Ref Level 30.00 dBm

Mkr2 3.838 9 GHz -35.120 dBm

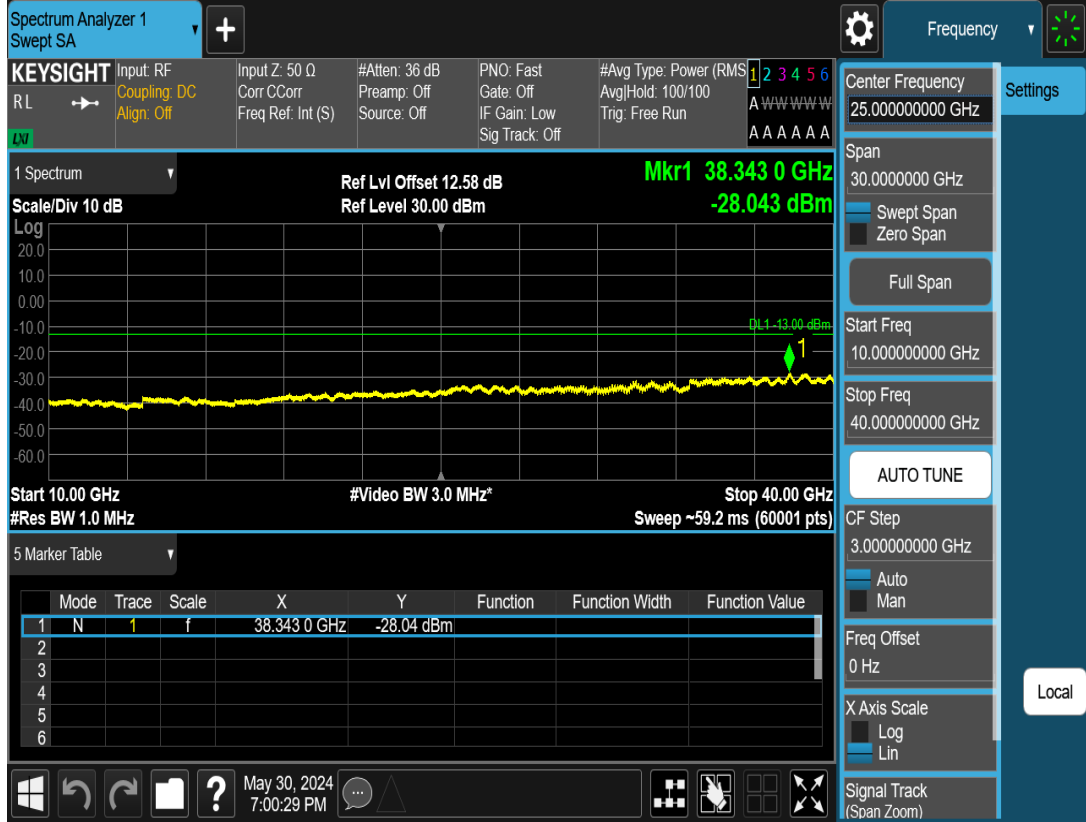
Log

Start 30 MHz #Res BW 1.0 MHz #Video BW 3.0 MHz\* Stop 10.000 GHz Sweep ~18.8 ms (25001 pts)

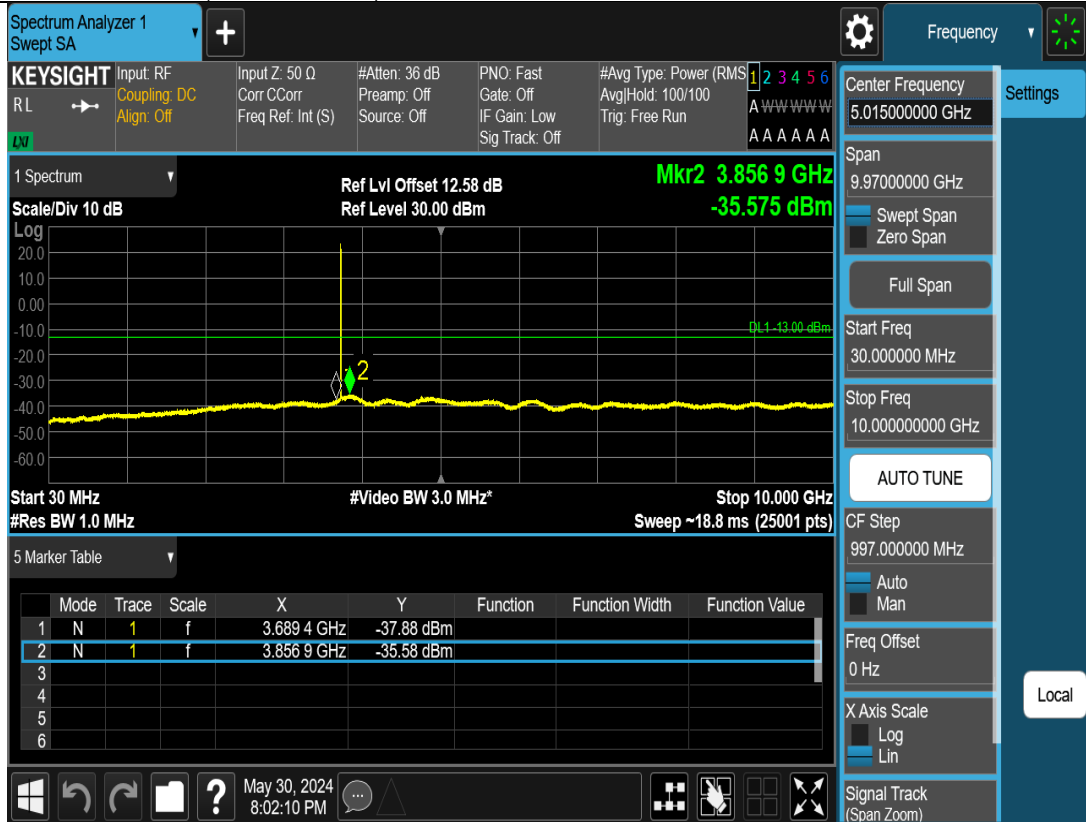
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	3.689 8 GHz	-37.95 dBm		
2	N	1	f	3.838 9 GHz	-35.12 dBm		
3							
4							
5							
6							

May 30, 2024 6:59:41 PM

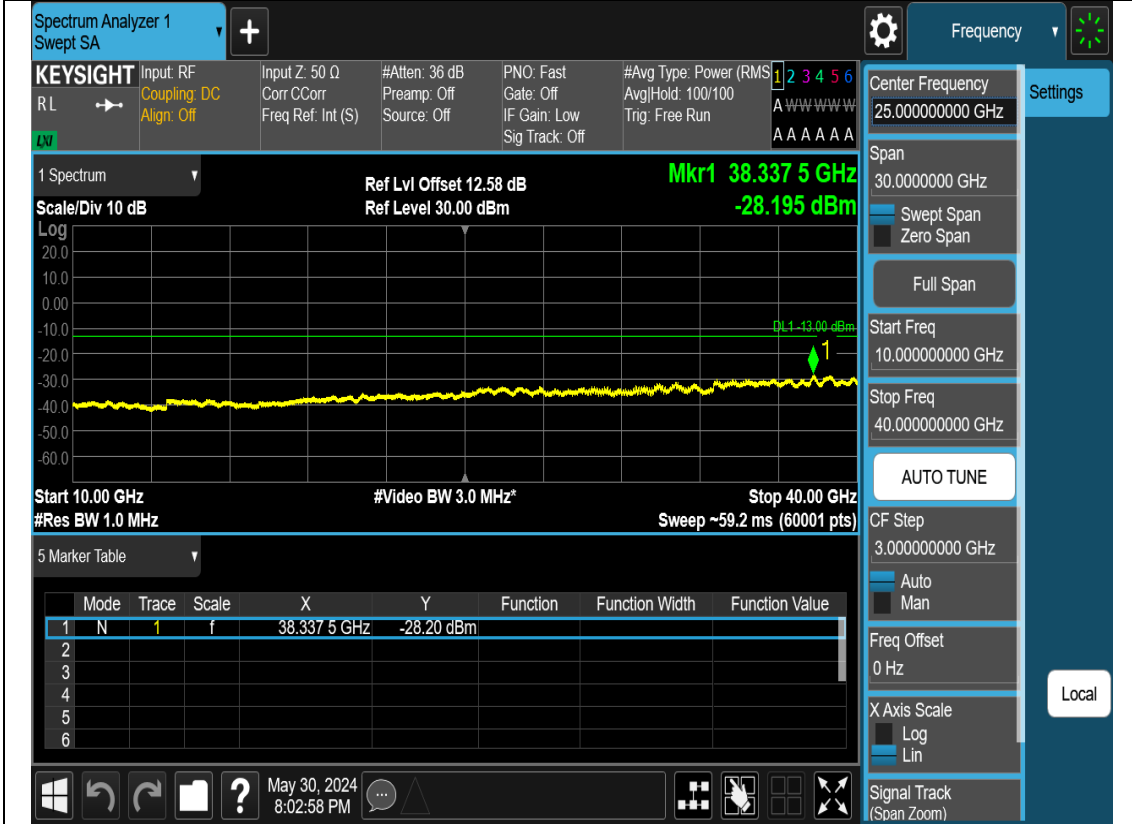
N78b(3700-3800MHz)-20M-CSE-M-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-40GHz



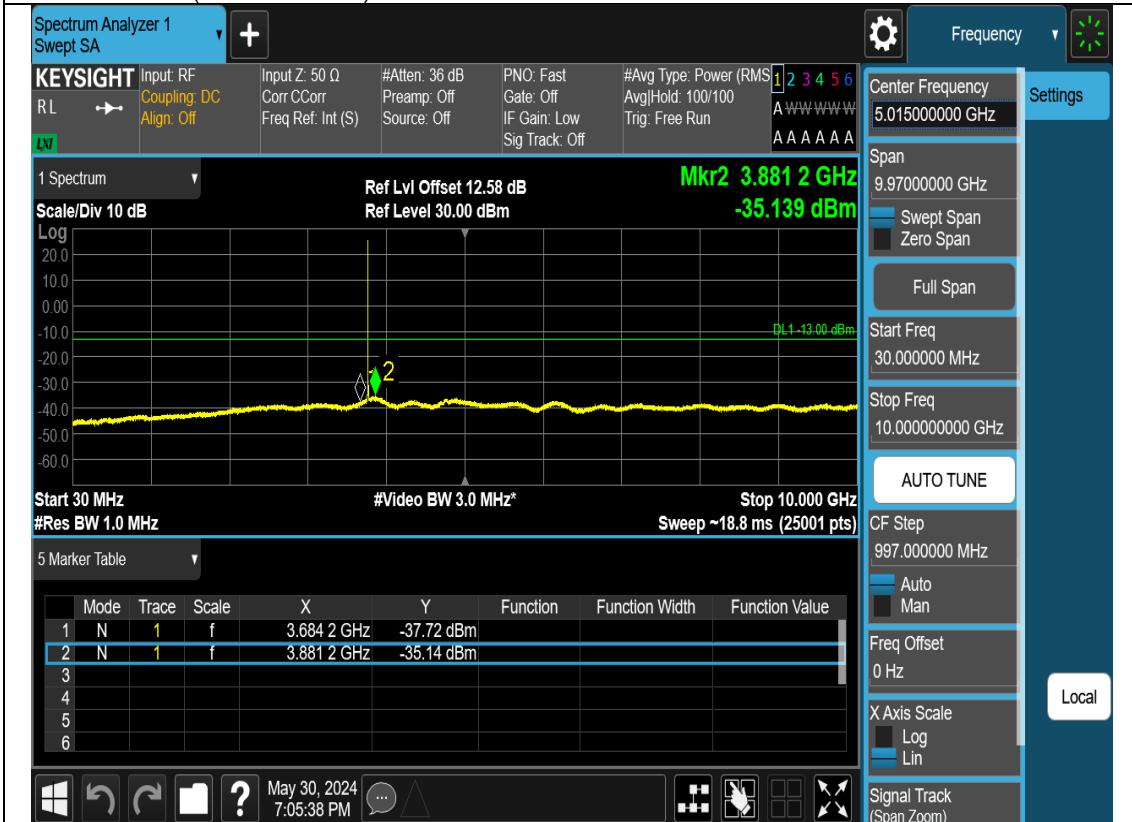
N78b(3700-3800MHz)-20M-CSE-M-CP-OFDM-QPSK-1RB0-30MHz-10GHz



N78b(3700-3800MHz)-20M-CSE-M-CP-OFDM-QPSK-1RB0-10GHz-40GHz



N78b(3700-3800MHz)-20M-CSE-H-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz





N78b(3700-3800MHz)-20M-CSE-H-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-40GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Off

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: 25.00000000 GHz

Span: 30.00000000 GHz

Start Freq: 10.00000000 GHz

Stop Freq: 40.00000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 12.58 dB Ref Level 30.00 dBm

Mkr1 38.945 0 GHz -28.227 dBm

Start 10.00 GHz #Res BW 1.0 MHz #Video BW 3.0 MHz\* Stop 40.00 GHz Sweep ~59.2 ms (60001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	38.945 0 GHz			-28.23 dBm
2							
3							
4							
5							
6							

May 30, 2024 7:06:26 PM

N78b(3700-3800MHz)-20M-CSE-H-CP-OFDM-QPSK-1RB0-30MHz-10GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Off

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: 30.00000000 MHz

Stop Freq: 10.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 12.58 dB Ref Level 30.00 dBm

Mkr2 3.840 1 GHz -35.266 dBm

Start 30 MHz #Res BW 1.0 MHz #Video BW 3.0 MHz\* Stop 10.000 GHz Sweep ~18.8 ms (25001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	3.679 8 GHz			-37.30 dBm
2	N	1	f	3.840 1 GHz			-35.27 dBm
3							
4							
5							
6							

May 30, 2024 8:08:12 PM

N78b(3700-3800MHz)-20M-CSE-H-CP-OFDM-QPSK-1RB0-10GHz-40GHz

**Spectrum Analyzer 1**  
Swept SA

**KEYSIGHT** Input RF  
RL → Coupling: DC  
Align: Off

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

1 Spectrum    Ref Lvl Offset 12.58 dB    **Mkr1 38.849 5 GHz**  
Scale/Div 10 dB    Ref Level 30.00 dBm    **-28.324 dBm**

Start 10.00 GHz    #Video BW 3.0 MHz\*    Stop 40.00 GHz  
#Res BW 1.0 MHz    Sweep ~59.2 ms (60001 pts)

5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	38.849 5 GHz	-28.32 dBm			
2								
3								
4								
5								
6								

Frequency

Center Frequency  
25.000000000 GHz

Span  
30.0000000 GHz

Swept Span  
Zero Span

Full Span

Start Freq  
10.000000000 GHz

Stop Freq  
40.000000000 GHz

AUTO TUNE

CF Step  
3.000000000 GHz

Auto  
Man

Freq Offset  
0 Hz

X Axis Scale  
Log  
Lin

Signal Track  
(Span Zoom)

Settings

Local

May 30, 2024 8:09:00 PM