

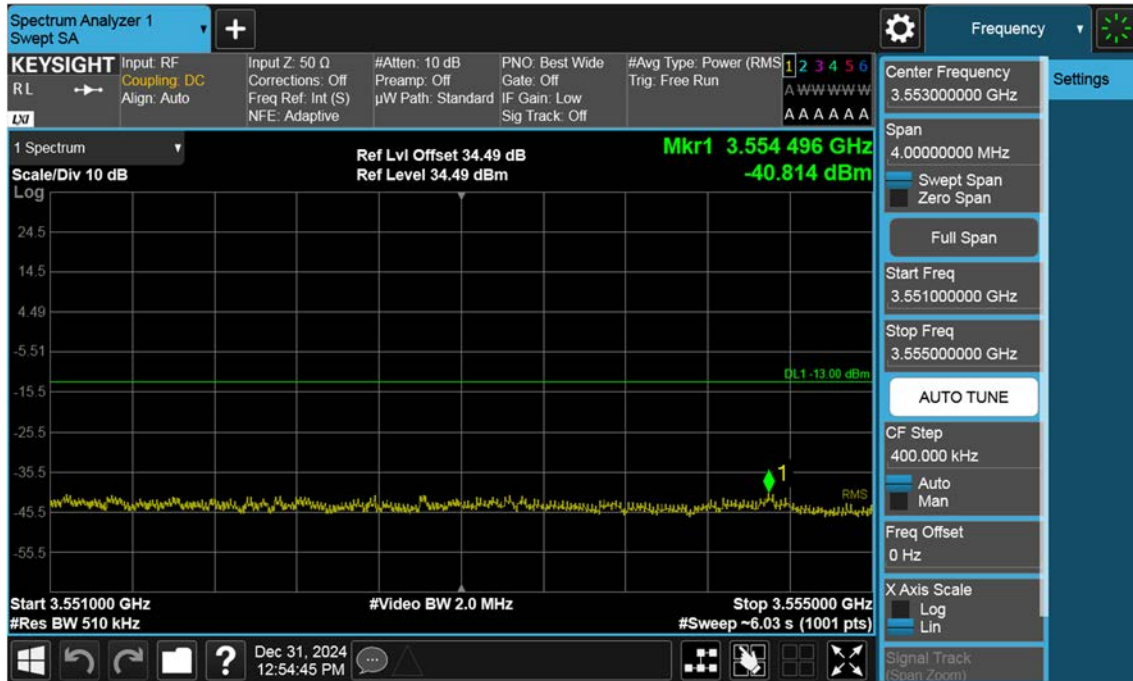
n77(3450~3550 MHz)_60 M_Band Edge_High_BPSK_FullRB(1)



n77(3450~3550 MHz)_60 M_Band Edge_High_BPSK_1RB(1)



n77(3450~3550 MHz)_60 M_Band Edge_High_BPSK_FullRB(2)



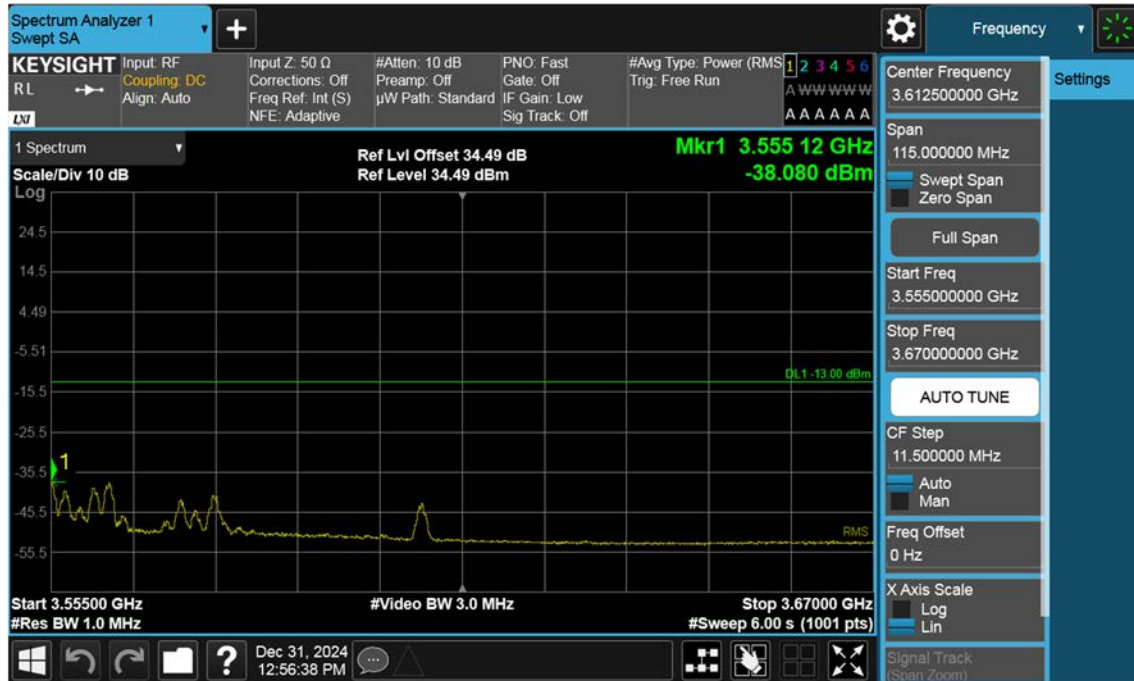
n77(3450~3550 MHz)_60 M_Band Edge_High_BPSK_1RB(2)



n77(3450~3550 MHz)_60 M_Band Edge_High_BPSK_FullRB(3)



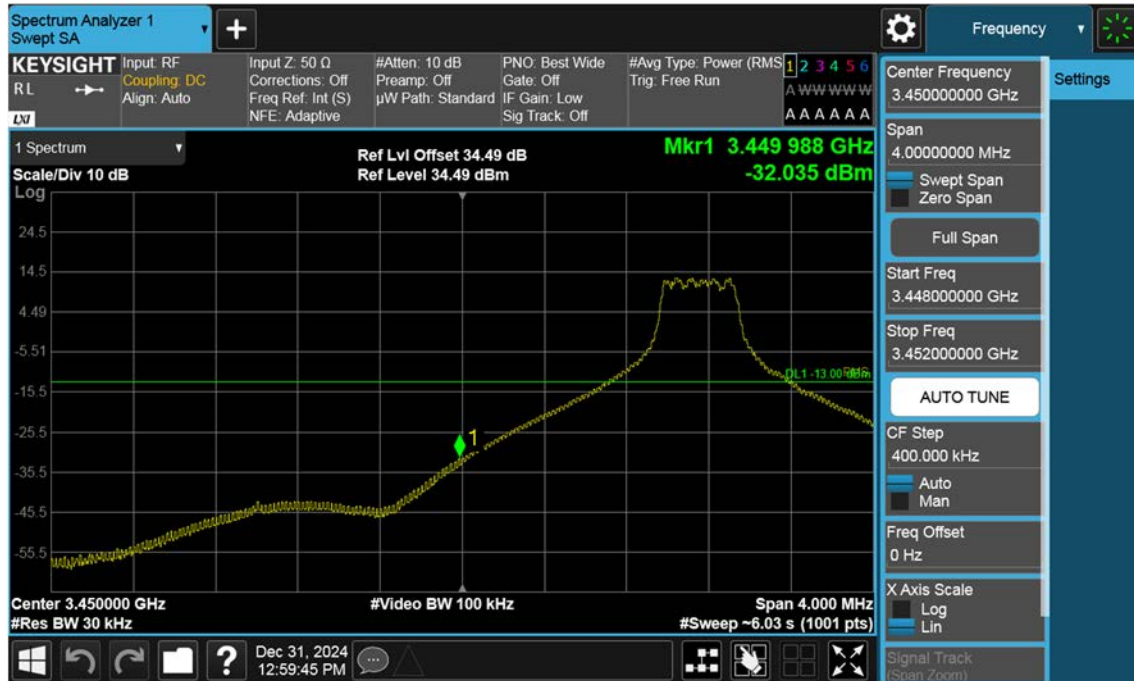
n77(3450~3550 MHz)_60 M_Band Edge_High_BPSK_1RB(3)



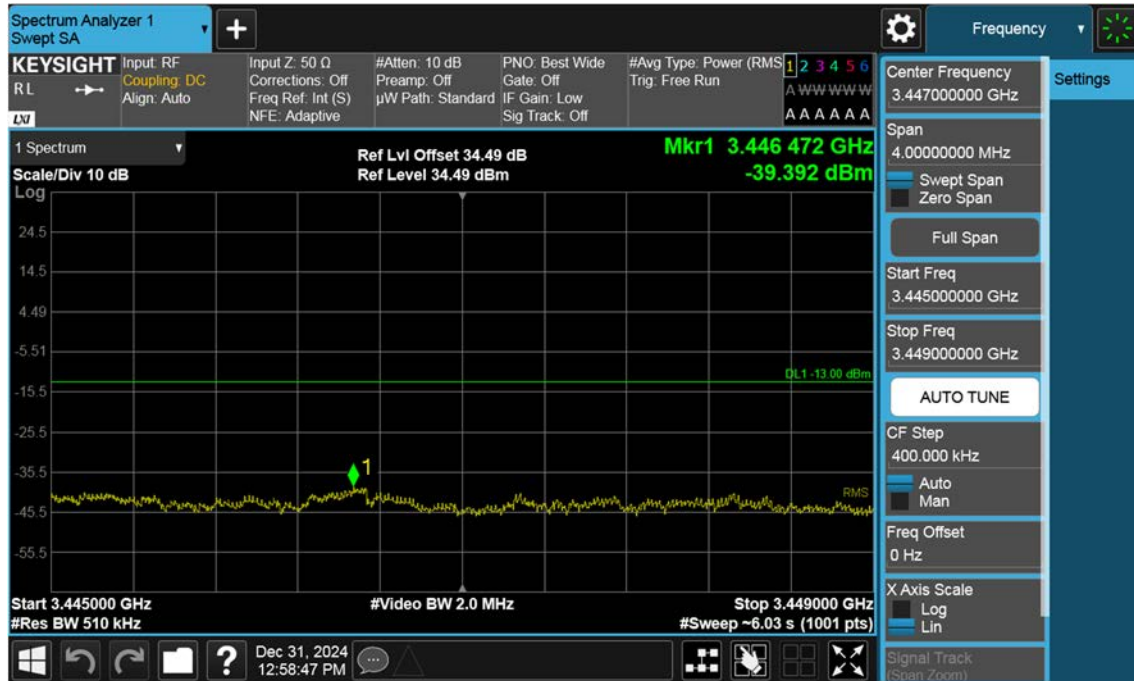
n77(3450~3550 MHz)_70 M_Band Edge_Low_BPSK_FullRB(1)



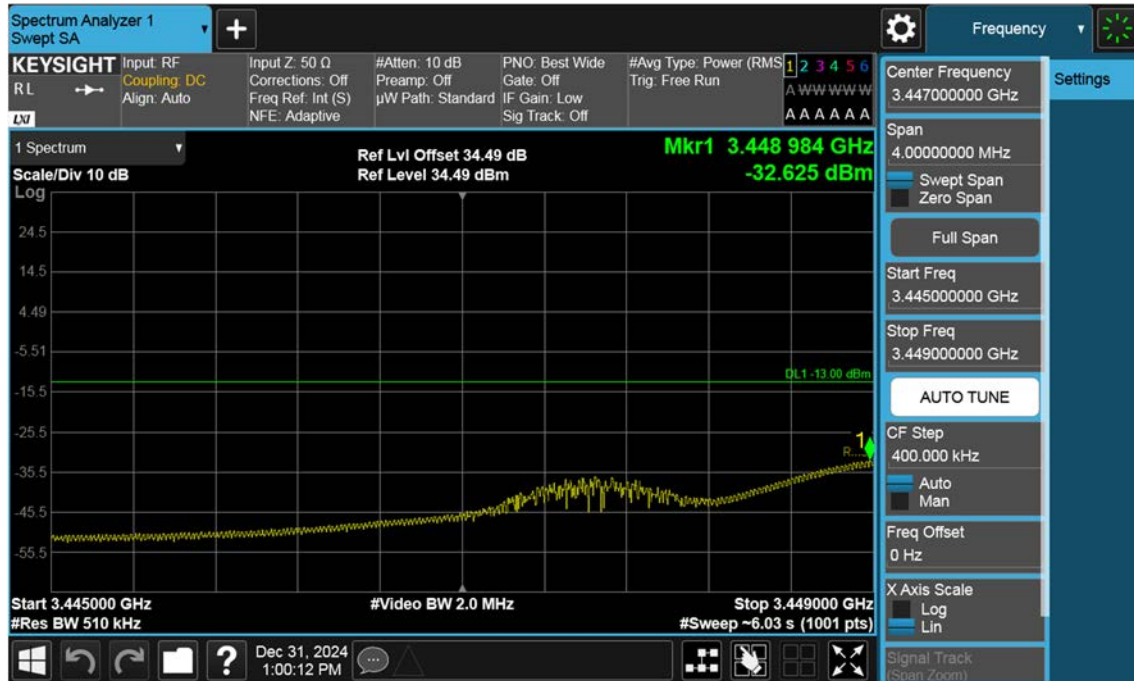
n77(3450~3550 MHz)_70 M_Band Edge_Low_BPSK_1RB(1)



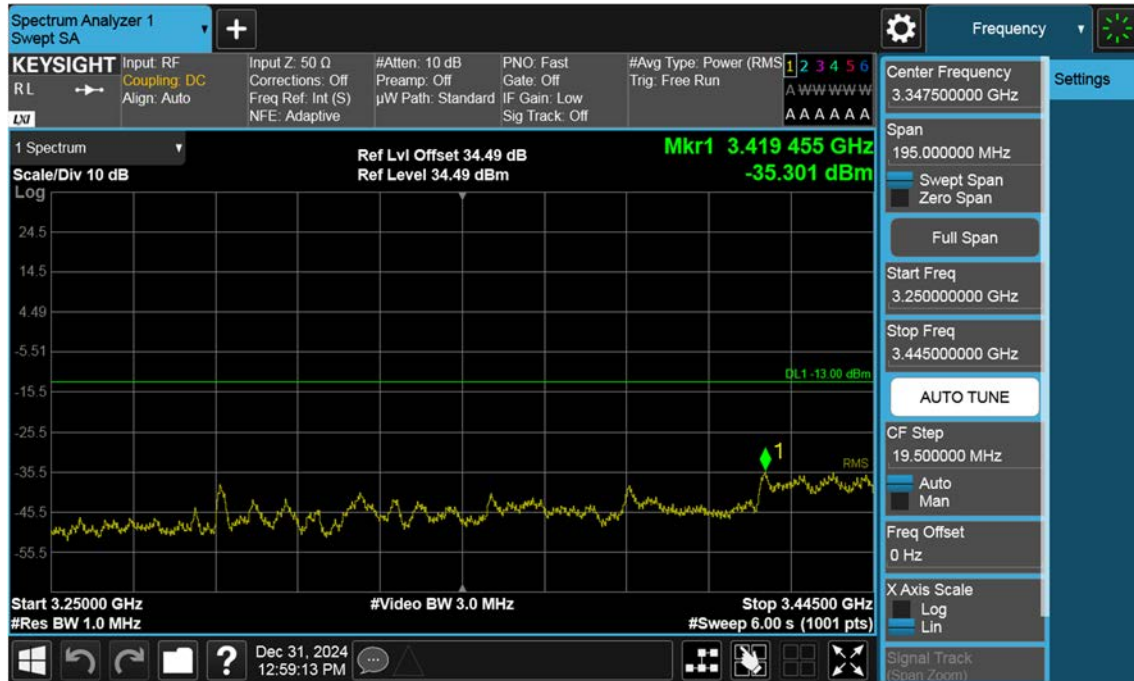
n77(3450~3550 MHz)_70 M_Band Edge_Low_BPSK_FullRB(2)



n77(3450~3550 MHz)_70 M_Band Edge_Low_BPSK_1RB(2)



n77(3450~3550 MHz)_70 M_Band Edge_Low_BPSK_FullRB(3)



Spectrum Analyzer 1
Swept SA

KEYSIGHT Input: RF Coupling: DC R L Align: Auto
 Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive
 #Atten: 10 dB Preamp: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off
 #Avg Type: Power (RMS) 1 2 3 4 5 6 A A A A A A A A
 Trig: Free Run

1 Spectrum
 Scale/Div 10 dB
 Log

Ref Lvl Offset 34.49 dB
 Ref Level 34.49 dBm

Mkr1 3.443 830 GHz
 -38.420 dBm

DL1 -13.00 dBm

Start 3.250000 GHz
 #Res BW 1.0 MHz

#Video BW 3.0 MHz

Stop 3.445000 GHz
 #Sweep 6.00 s (1001 pts)

Center Frequency
 3.347500000 GHz

Span
 195.000000 MHz
☒ Swept Span
☐ Zero Span
 Full Span

Start Freq
 3.250000000 GHz

Stop Freq
 3.445000000 GHz

AUTO TUNE

CF Step
 19.5000000 MHz
☒ Auto
☐ Man

Freq Offset
 0 Hz

X Axis Scale
☐ Log
☒ Lin

Signal Track
 (Span Zoom)

Dec 31, 2024
 1:00:38 PM

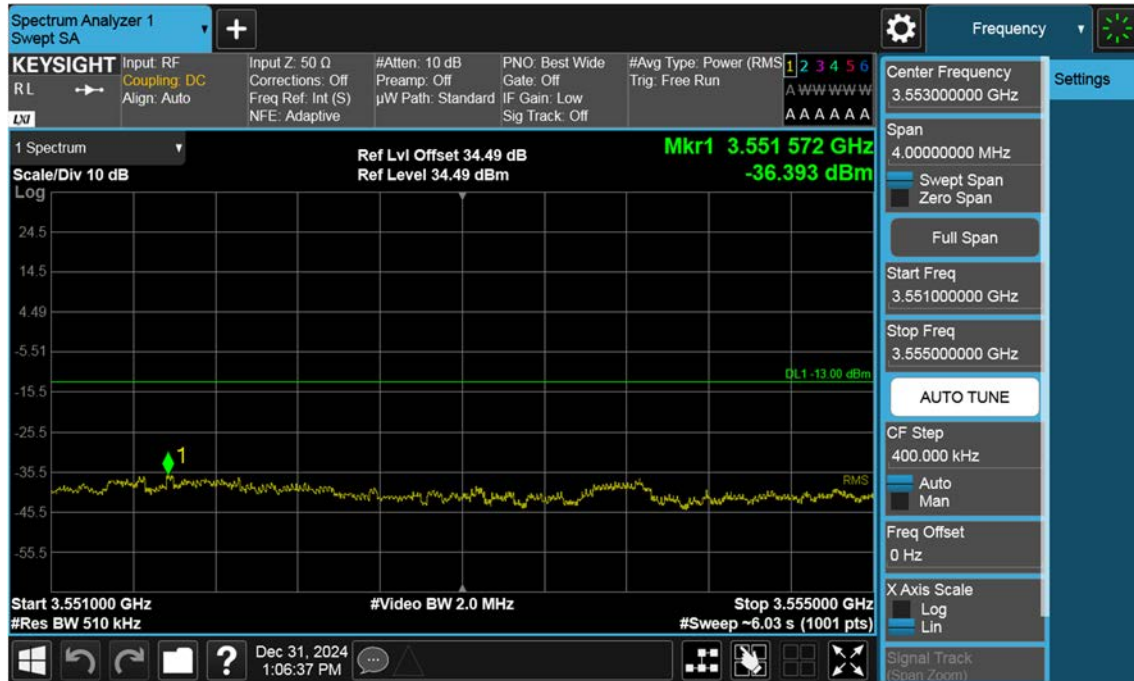
n77(3450~3550 MHz)_70 M_Band Edge_High_BPSK_FullIRB(1)



n77(3450~3550 MHz)_70 M_Band Edge_High_BPSK_1RB(1)



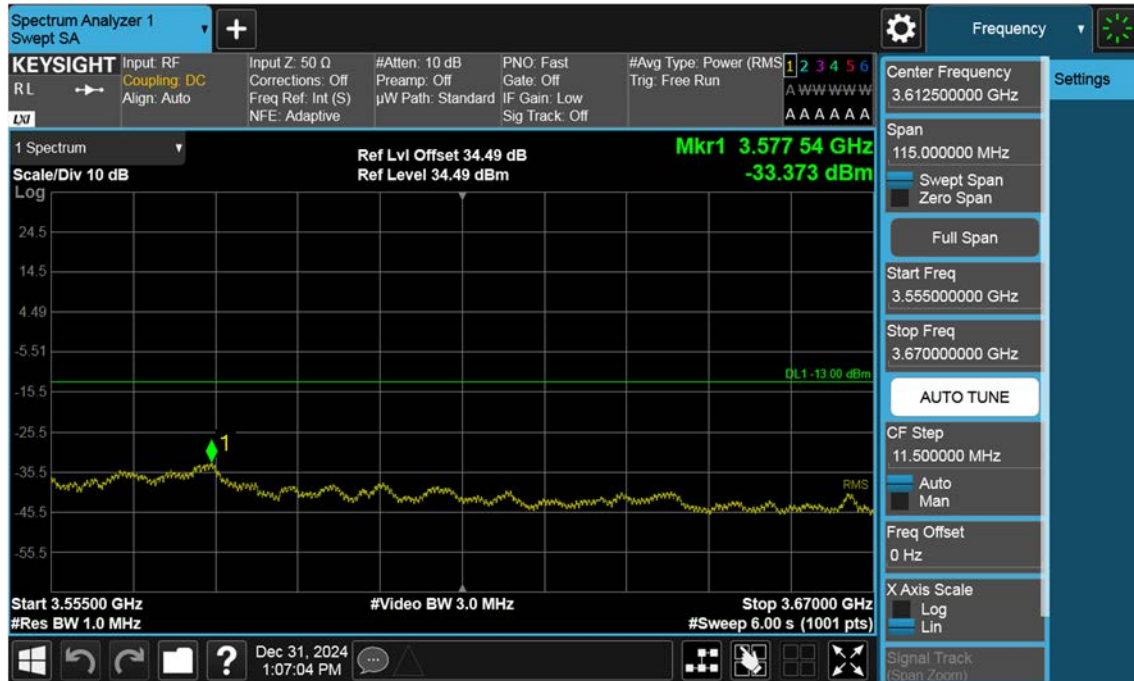
n77(3450~3550 MHz)_70 M_Band Edge_High_BPSK_FullIRB(2)



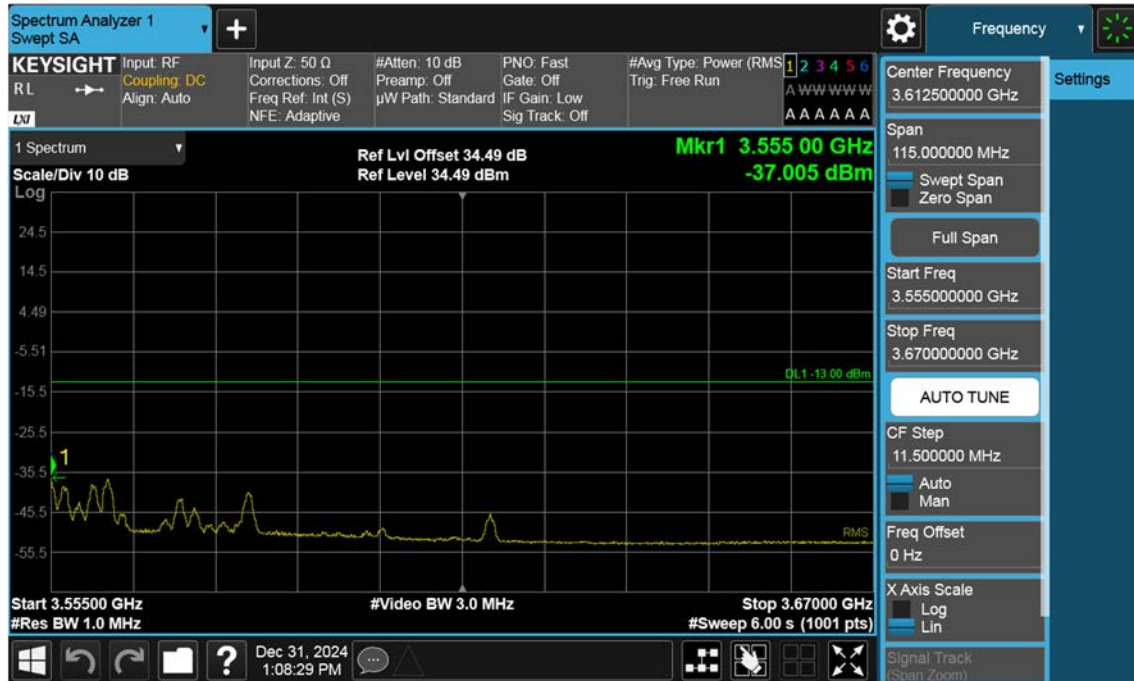
n77(3450~3550 MHz)_70 M_Band Edge_High_BPSK_1RB(2)



n77(3450~3550 MHz)_70 M_Band Edge_High_BPSK_FullRB(3)



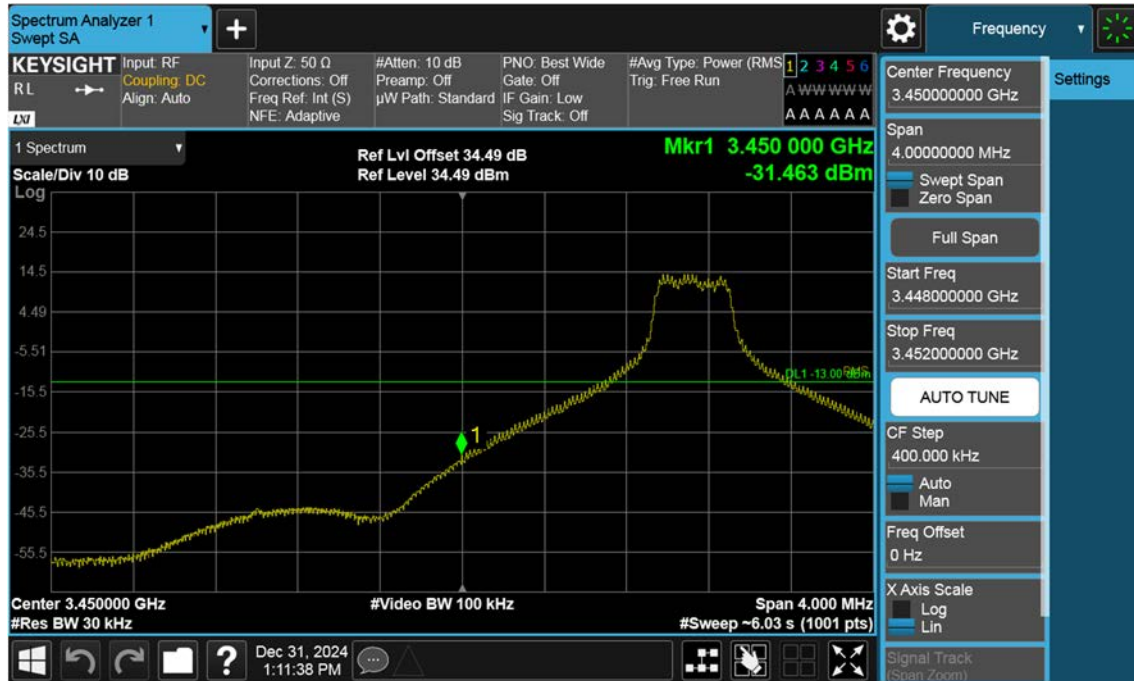
n77(3450~3550 MHz)_70 M_Band Edge_High_BPSK_1RB(3)



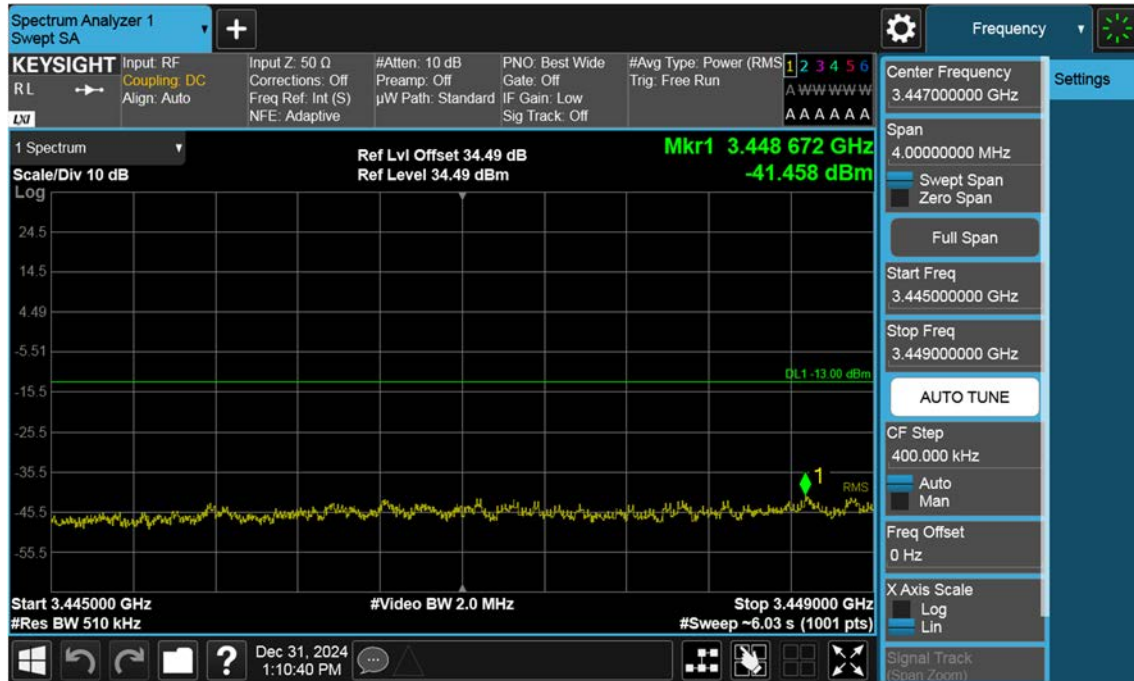
n77(3450~3550 MHz)_80 M_Band Edge_Low_BPSK_FullRB(1)



n77(3450~3550 MHz)_80 M_Band Edge_Low_BPSK_1RB(1)



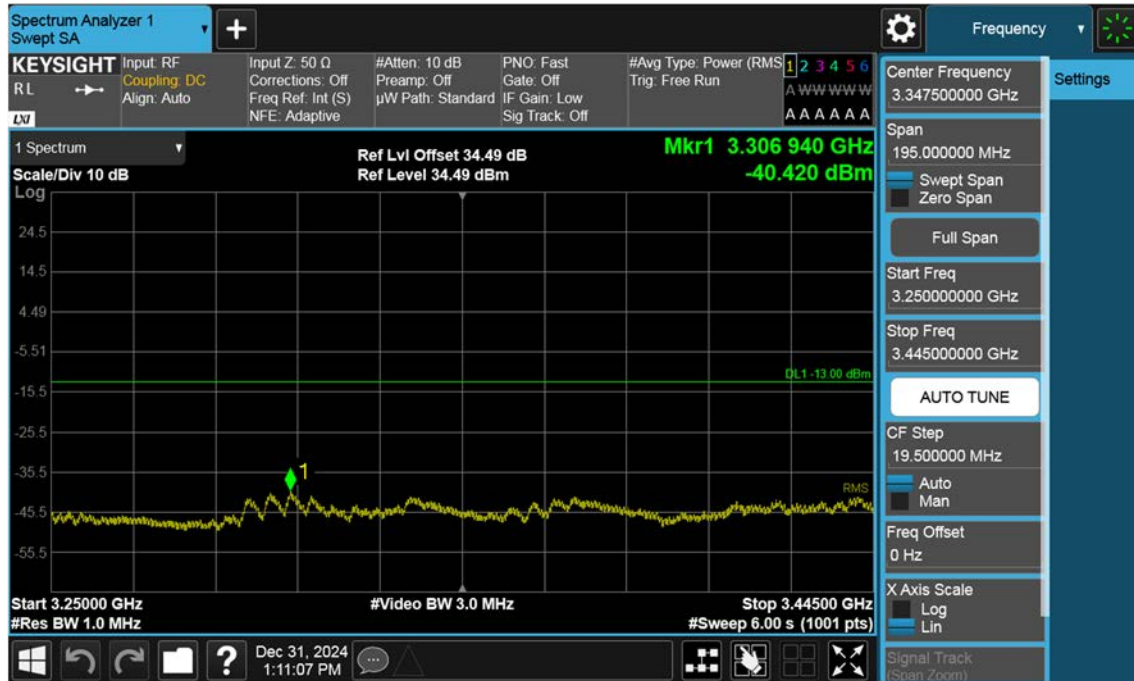
n77(3450~3550 MHz)_80 M_Band Edge_Low_BPSK_FullRB(2)



n77(3450~3550 MHz)_80 M_Band Edge_Low_BPSK_1RB(2)



n77(3450~3550 MHz)_80 M_Band Edge_Low_BPSK_FullRB(3)



Keysight Spectrum Analyzer 1
Swept SA
KEYSIGHT Input: RF
 R L **Coupling: DC**
 Align: Auto
 Input Z: 50 Ω
 Corrections: Off
 Freq Ref: Int (S)
 NFE: Adaptive
 #Atten: 10 dB
 Preamp: Off
 PNO: Fast
 Gate: Off
 IF Gain: Low
 Sig Track: Off
 #Avg Type: Power (RMS)
 Trig: Free Run
 1 2 3 4 5 6
 A WWWWWWW
 A A A A A A A

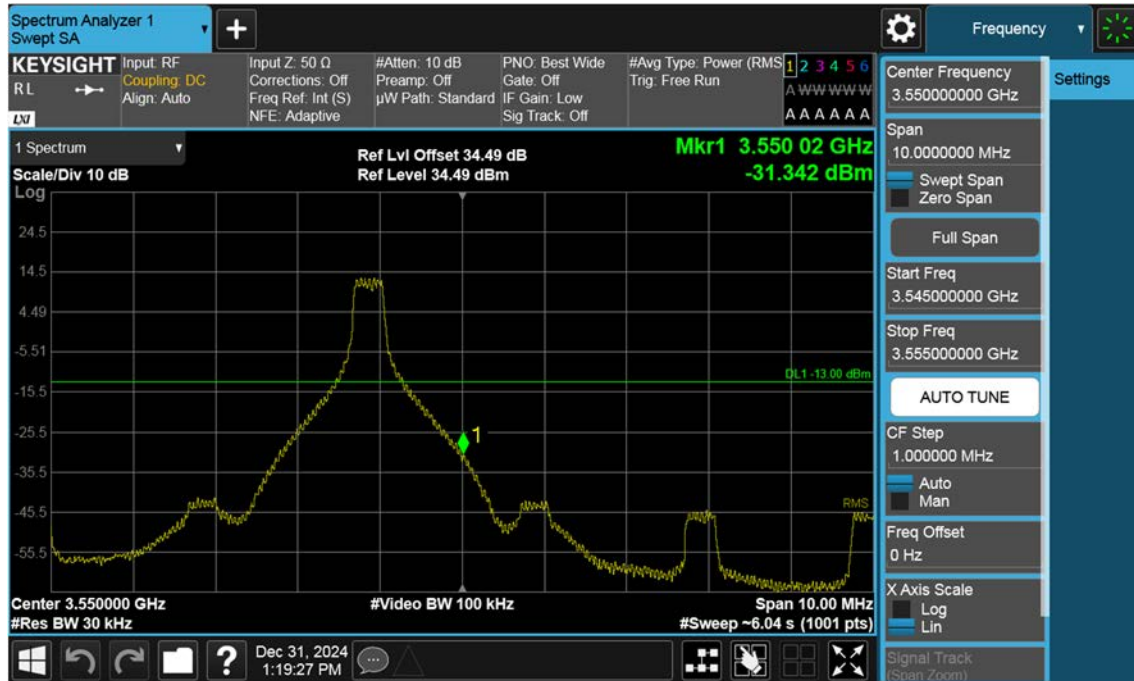
1 Spectrum
 Scale/Div 10 dB
 Log
 Ref Lvl Offset 34.49 dB
 Ref Level 34.49 dBm
 Mkr1 3.444 220 GHz
 -35.442 dBm
 OL1 -13.00 dBm
 Start 3.250000 GHz
 #Res BW 1.0 MHz
 #Video BW 3.0 MHz
 Stop 3.445000 GHz
 #Sweep 6.00 s (1001 pts)

Center Frequency
 3.347500000 GHz
 Span
 195.000000 MHz
 Swept Span
 Zero Span
 Full Span
 Start Freq
 3.250000000 GHz
 Stop Freq
 3.445000000 GHz
 AUTO TUNE
 CF Step
 19.500000 MHz
 Auto
 Man
 Freq Offset
 0 Hz
 X Axis Scale
 Log
 Lin
 Signal Track
 (Span Zoom)

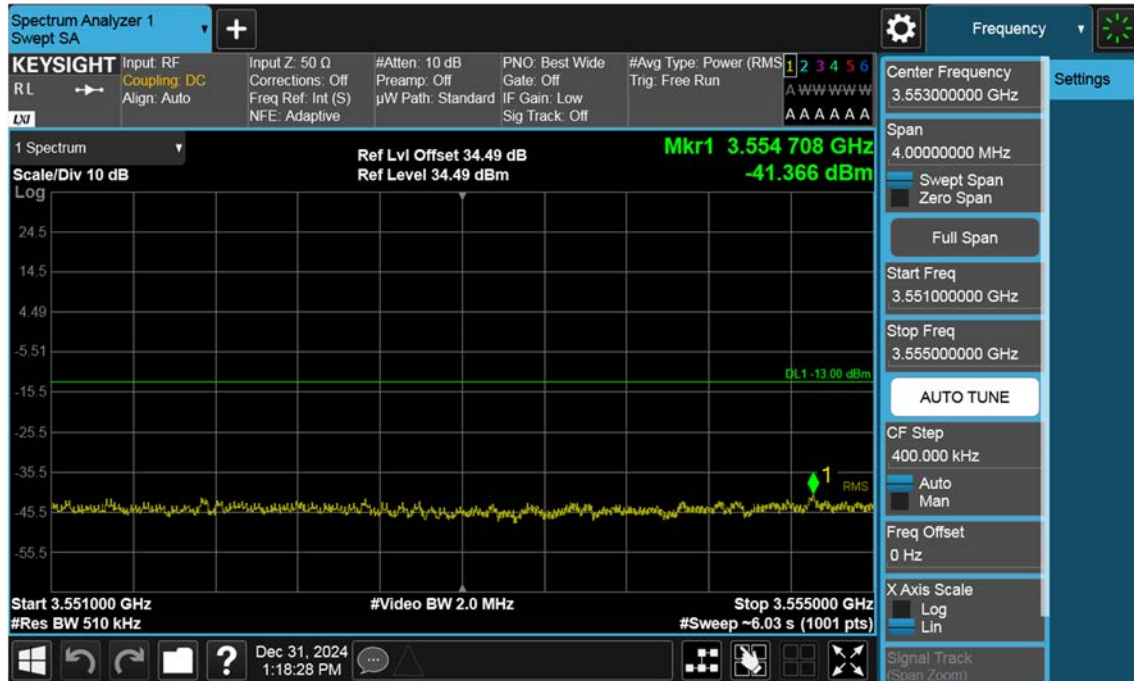
n77(3450~3550 MHz)_80 M_Band Edge_High_BPSK_FullRB(1)



n77(3450~3550 MHz)_80 M_Band Edge_High_BPSK_1RB(1)



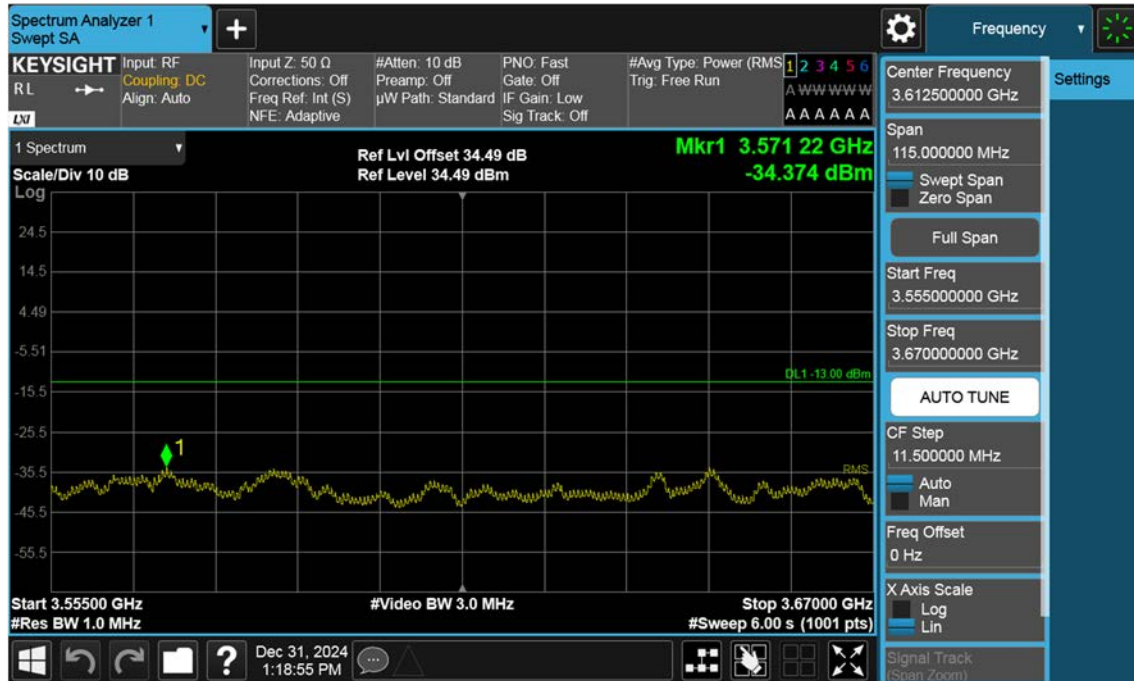
n77(3450~3550 MHz)_80 M_Band Edge_High_BPSK_FullIRB(2)



n77(3450~3550 MHz)_80 M_Band Edge_High_BPSK_1RB(2)



n77(3450~3550 MHz)_80 M_Band Edge_High_BPSK_FullRB(3)



n77(3450~3550 MHz)_80 M_Band Edge_High_BPSK_1RB(3)



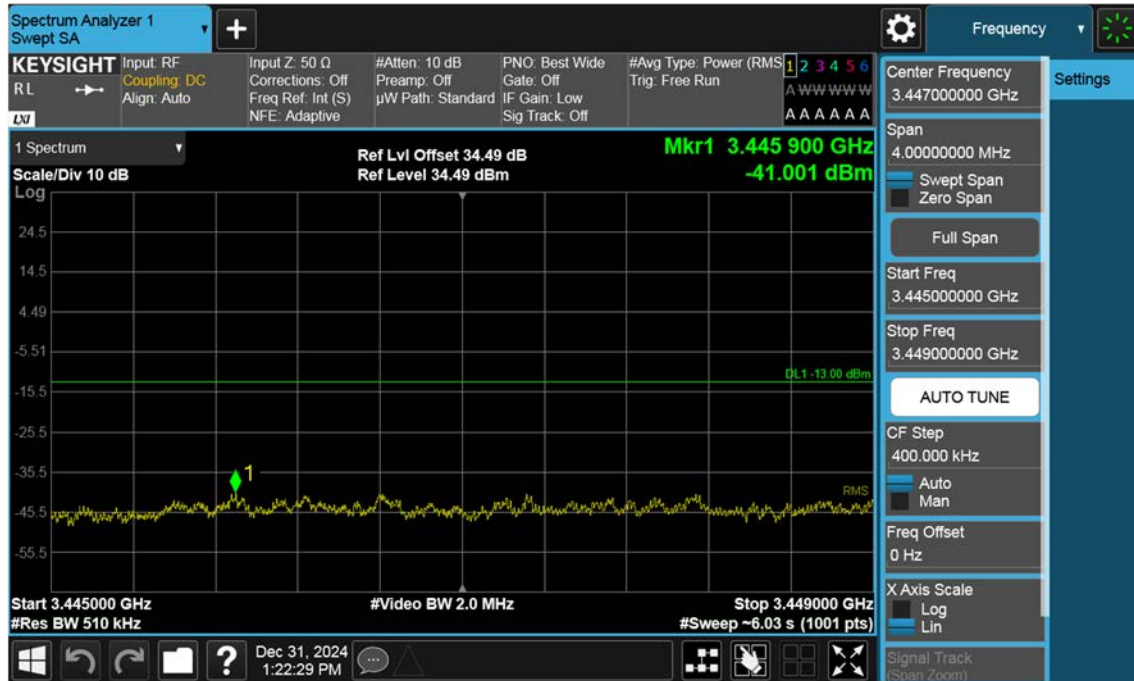
n77(3450~3550 MHz)_90 M_Band Edge_Low_BPSK_FullRB(1)



n77(3450~3550 MHz)_90 M_Band Edge_Low_BPSK_1RB(1)



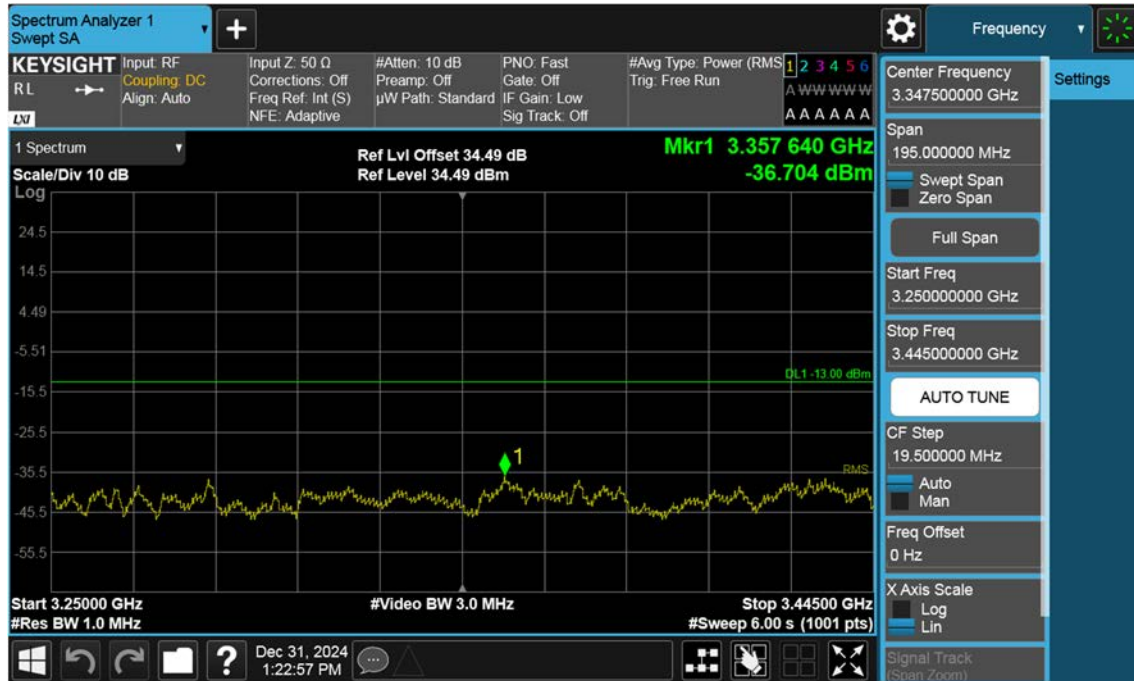
n77(3450~3550 MHz)_90 M_Band Edge_Low_BPSK_FullRB(2)



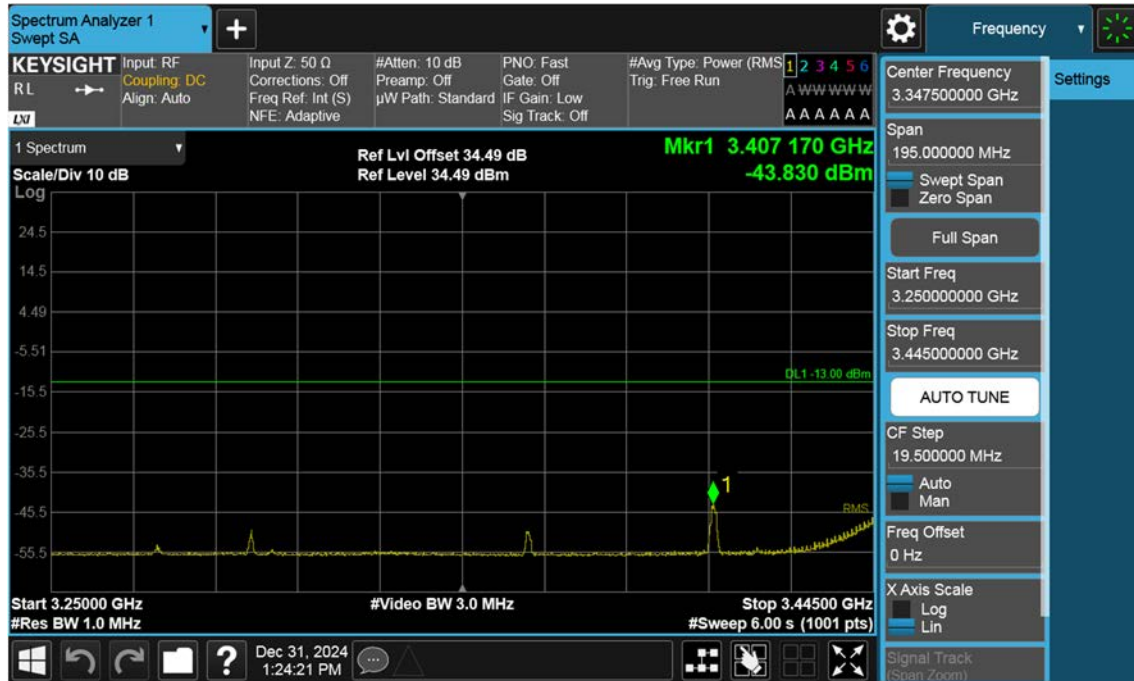
n77(3450~3550 MHz)_90 M_Band Edge_Low_BPSK_1RB(2)



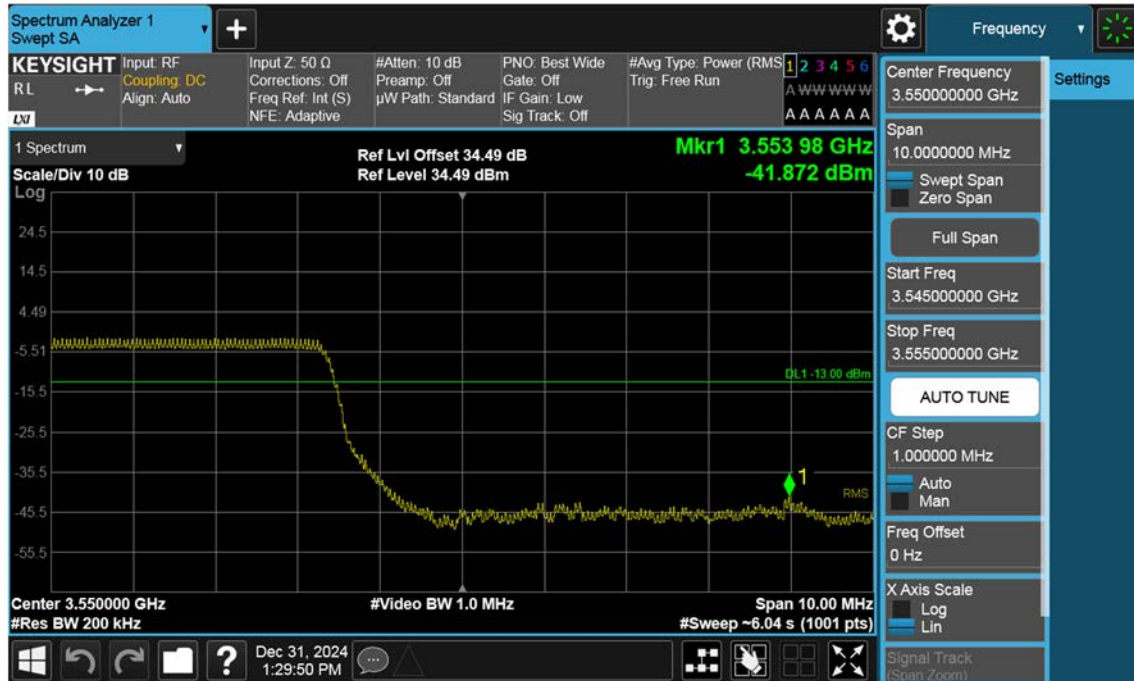
n77(3450~3550 MHz)_90 M_Band Edge_Low_BPSK_FullRB(3)



n77(3450~3550 MHz)_90 M_Band Edge_Low_BPSK_1RB(3)



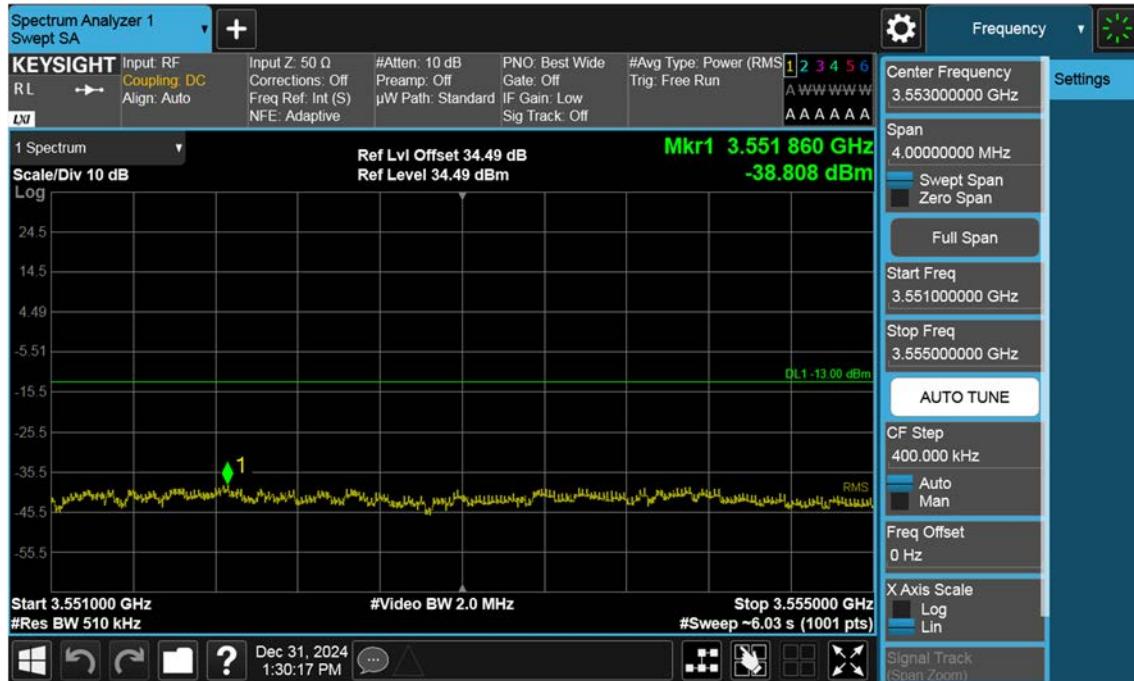
n77(3450~3550 MHz)_90 M_Band Edge_High_BPSK_FullRB(1)



n77(3450~3550 MHz)_90 M_Band Edge_High_BPSK_1RB(1)



n77(3450~3550 MHz)_90 M_Band Edge_High_BPSK_FullIRB(2)



The screenshot displays the Keysight Spectrum Analyzer interface. The main display shows a spectrum plot with a yellow trace. A peak is labeled 'Mkr1 3.551 012 GHz -33.249 dBm'. The plot has a scale of 10 dB and a resolution bandwidth of 2.0 MHz. The frequency range is from 3.551000 GHz to 3.555000 GHz. The plot shows a signal that starts at approximately -35 dBm at 3.551000 GHz and decreases to about -45 dBm at 3.555000 GHz. The plot is labeled 'Log' and 'RMS'.

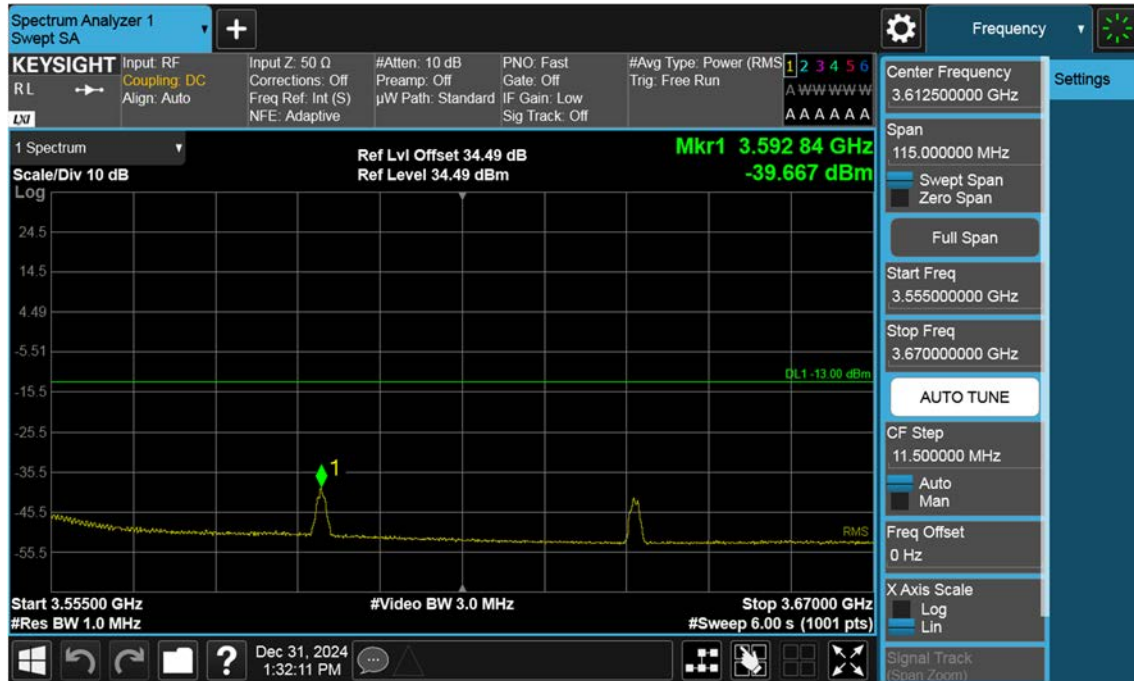
Key parameters visible on the screen include:

- Center Frequency: 3.553000000 GHz
- Span: 4.00000000 MHz
- Start Freq: 3.551000000 GHz
- Stop Freq: 3.555000000 GHz
- CF Step: 400.000 kHz
- Freq Offset: 0 Hz
- X Axis Scale: Log
- Start 3.551000 GHz
- Stop 3.555000 GHz
- #Res BW 510 kHz
- #Video BW 2.0 MHz
- #Sweep ~6.03 s (1001 pts)

n77(3450~3550 MHz)_90 M_Band Edge_High_BPSK_FullRB(3)



n77(3450~3550 MHz)_90 M_Band Edge_High_BPSK_1RB(3)



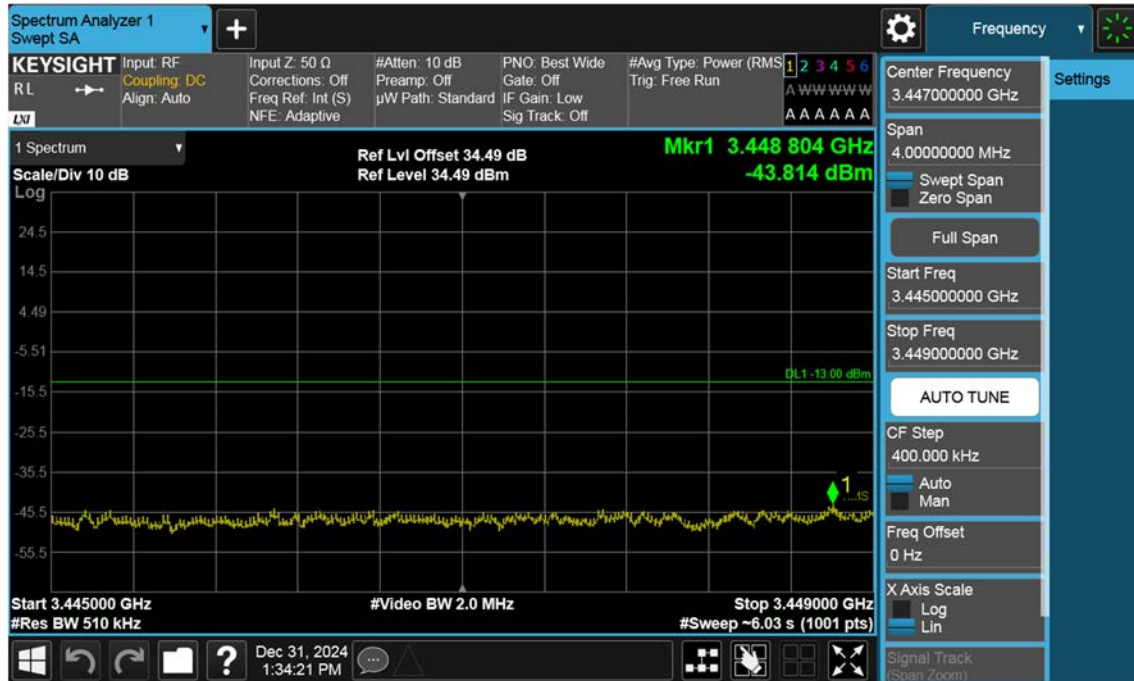
n77(3450~3550 MHz)_100 M_Band Edge_Low_BPSK_FullRB(1)



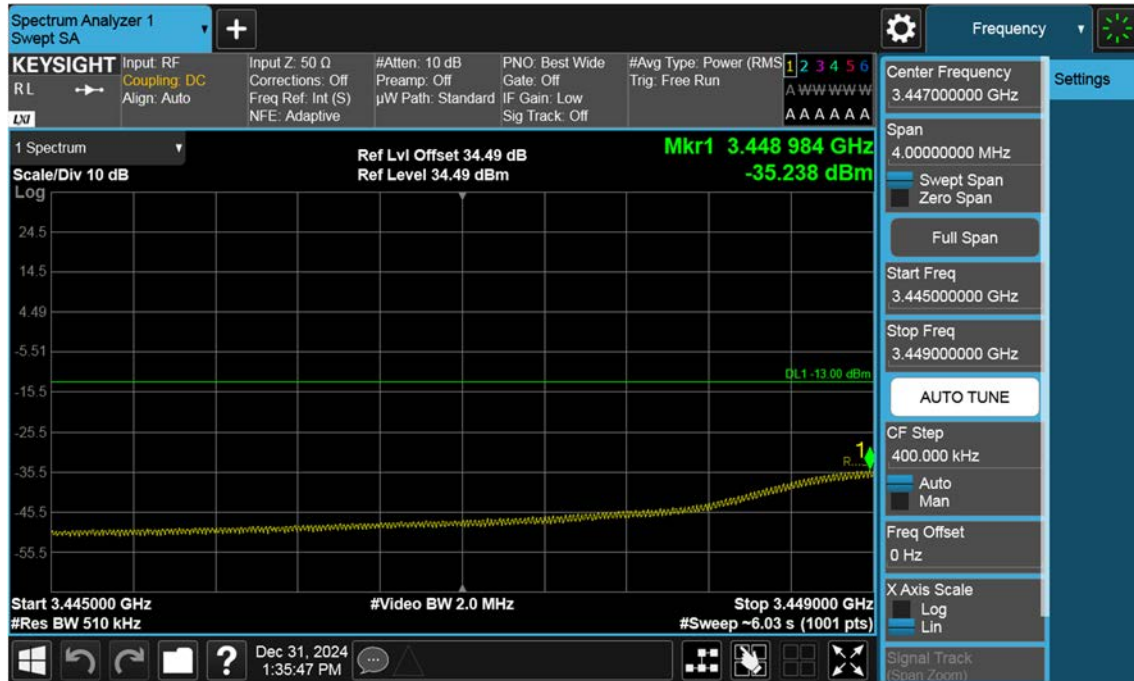
n77(3450~3550 MHz)_100 M_Band Edge_Low_BPSK_1RB(1)



n77(3450~3550 MHz)_100 M_Band Edge_Low_BPSK_FullRB(2)



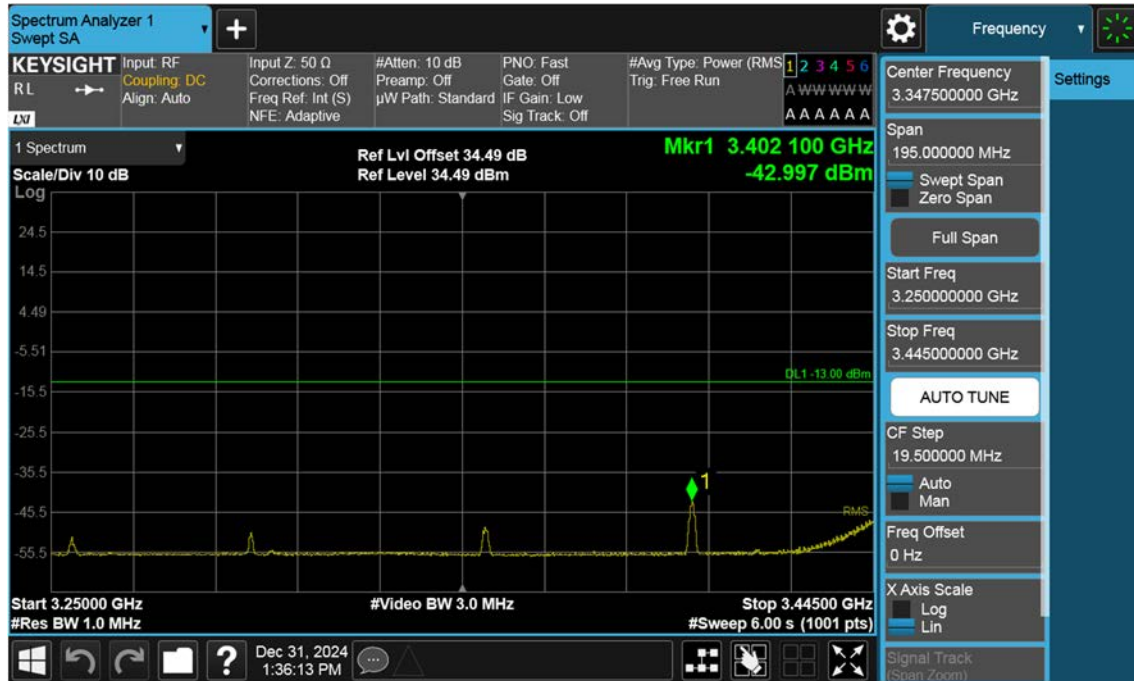
n77(3450~3550 MHz)_100 M_Band Edge_Low_BPSK_1RB(2)



n77(3450~3550 MHz)_100 M_Band Edge_Low_BPSK_FullRB(3)



n77(3450~3550 MHz)_100 M_Band Edge_Low_BPSK_1RB(3)



n77(3450~3550 MHz)_100 M_Band Edge_High_BPSK_FullRB(1)



n77(3450~3550 MHz)_100 M_Band Edge_High_BPSK_1RB(1)



n77(3450~3550 MHz)_100 M_Band Edge_High_BPSK_FullRB(2)



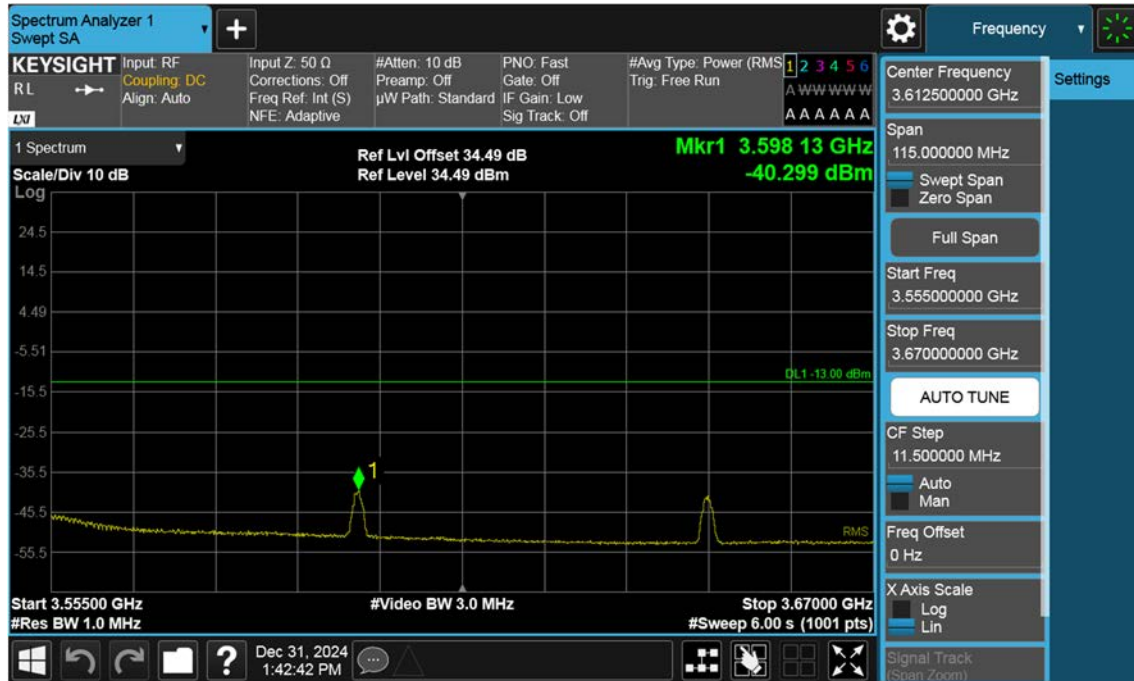
n77(3450~3550 MHz)_100 M_Band Edge_High_BPSK_1RB(2)



n77(3450~3550 MHz)_100 M_Band Edge_High_BPSK_FullRB(3)



n77(3450~3550 MHz)_100 M_Band Edge_High_BPSK_1RB(3)

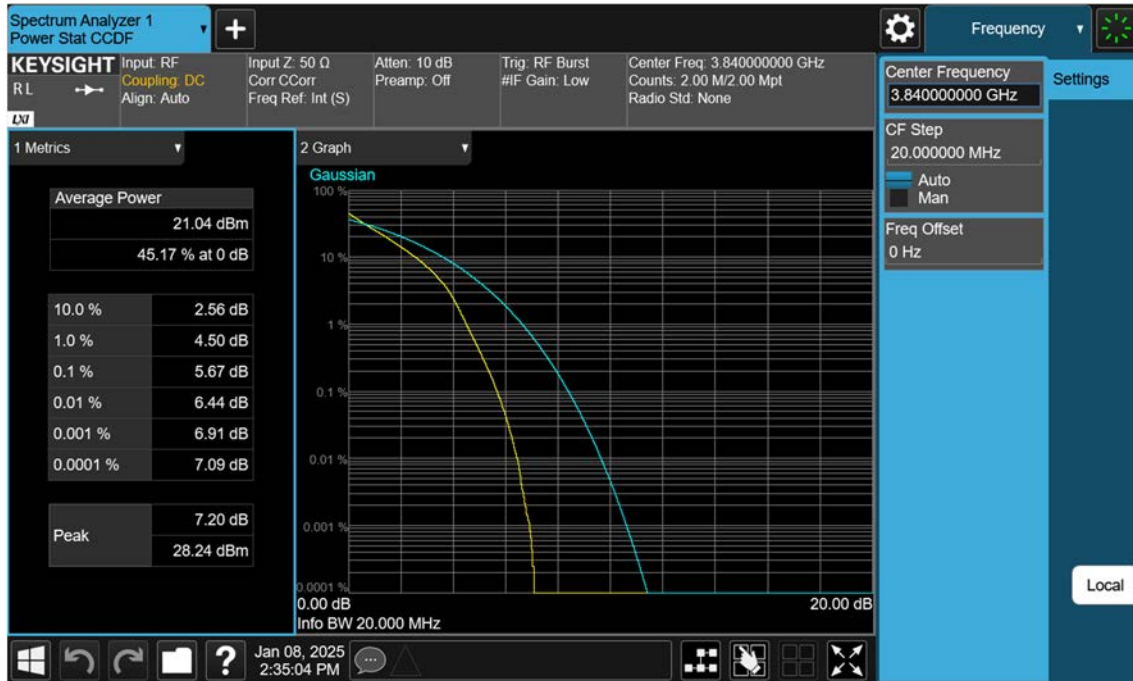


11. TEST PLOTS(3700 MHz - 3980 MHz)

n77(3700~3980 MHz)_20 M_PAR_Mid_BPSK_FullRB



n77(3700~3980 MHz)_20 M_PAR_Mid_QPSK_FullRB



n77(3700~3980 MHz)_20 M_PAR_Mid_16QAM_FullRB



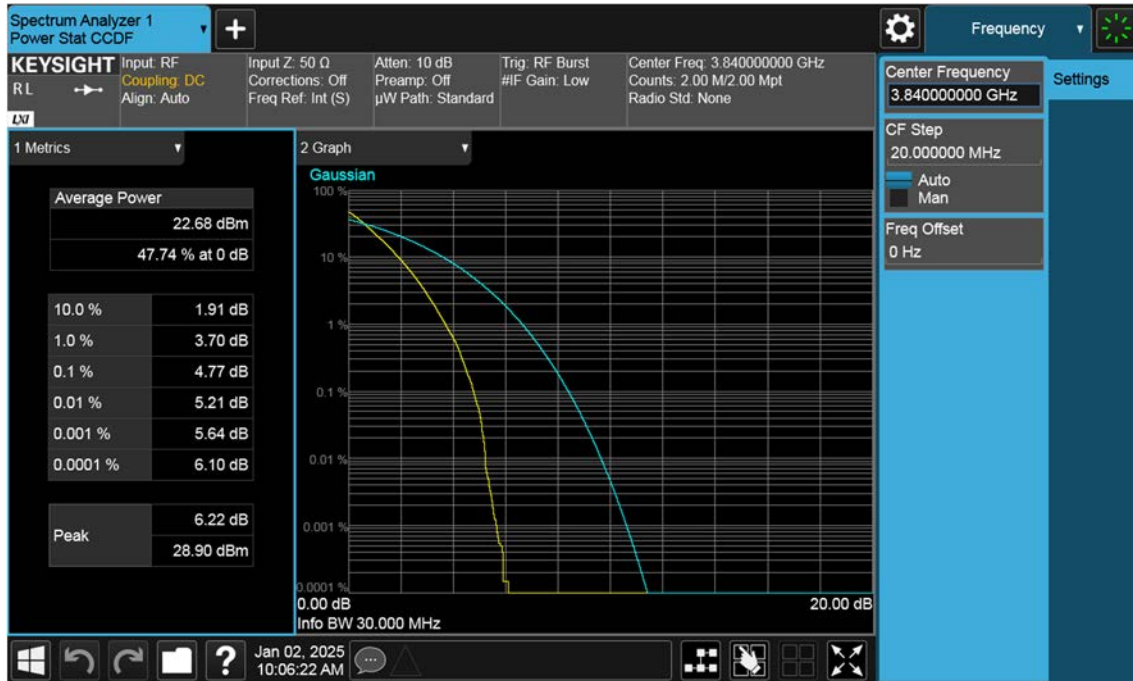
n77(3700~3980 MHz)_20 M_PAR_Mid_64QAM_FullRB



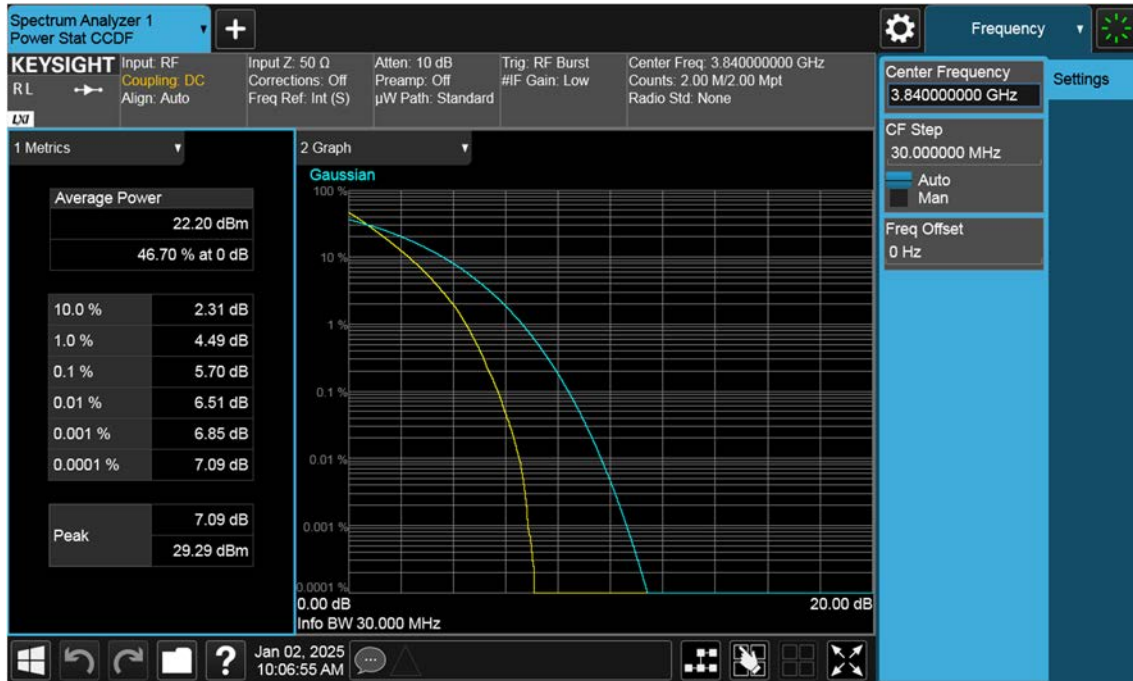
n77(3700~3980 MHz)_20 M_PAR_Mid_256QAM_FullRB



n77(3700~3980 MHz)_30 M_PAR_Mid_BPSK_FullRB



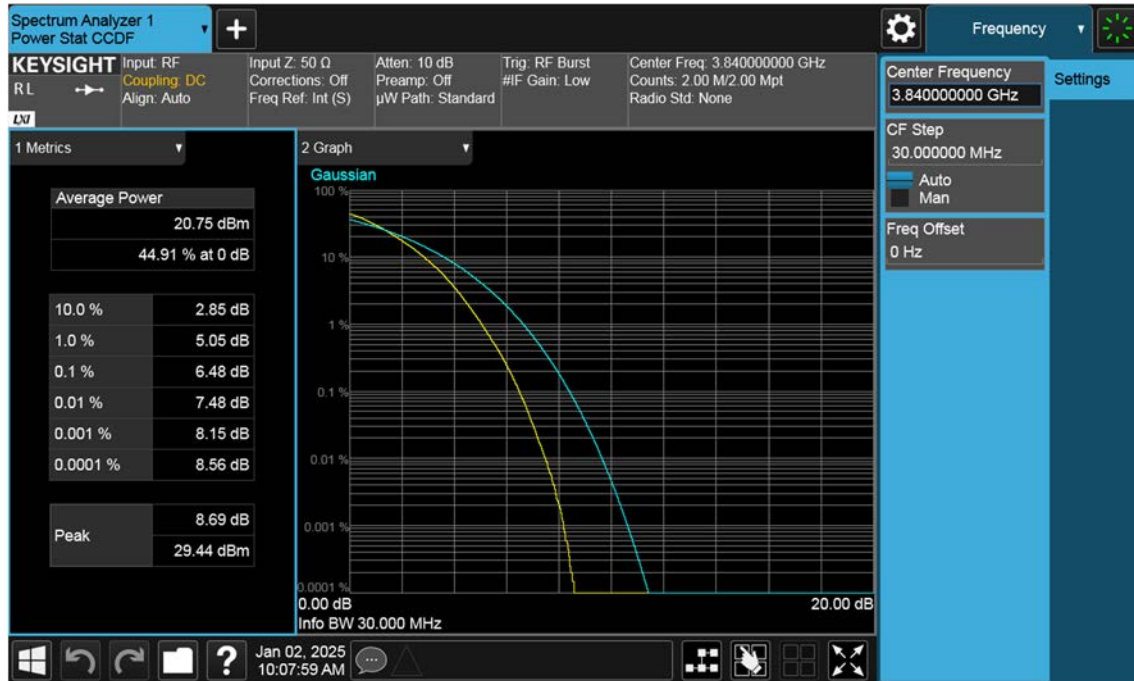
n77(3700~3980 MHz)_30 M_PAR_Mid_QPSK_FullRB



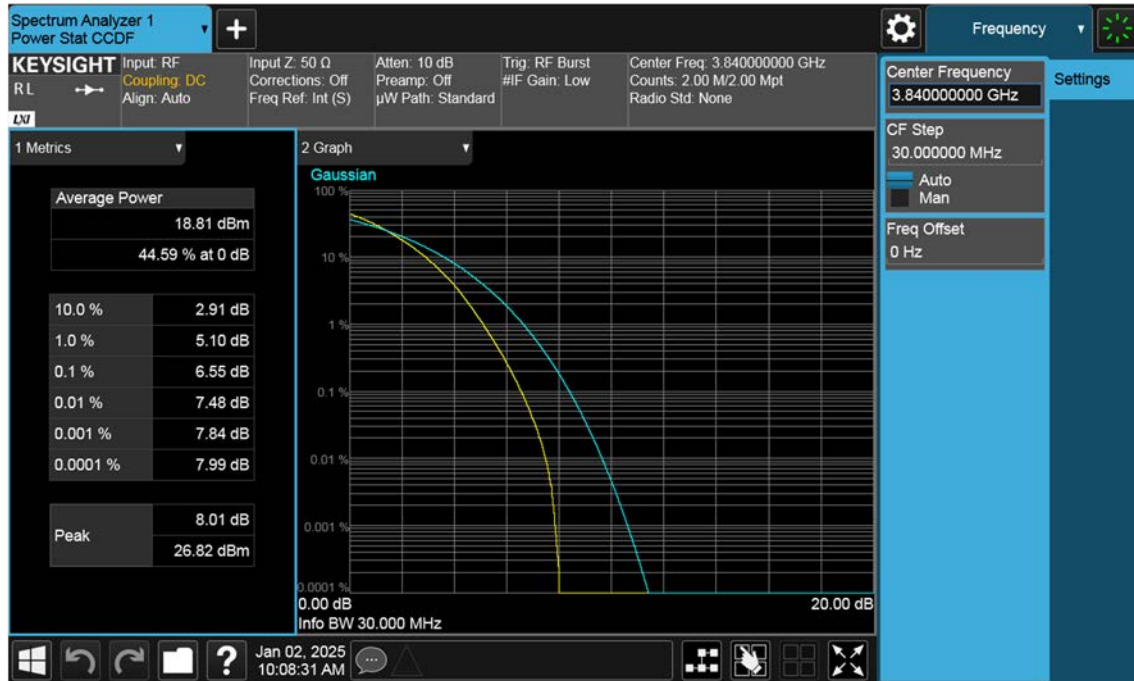
n77(3700~3980 MHz)_30 M_PAR_Mid_16QAM_FullRB



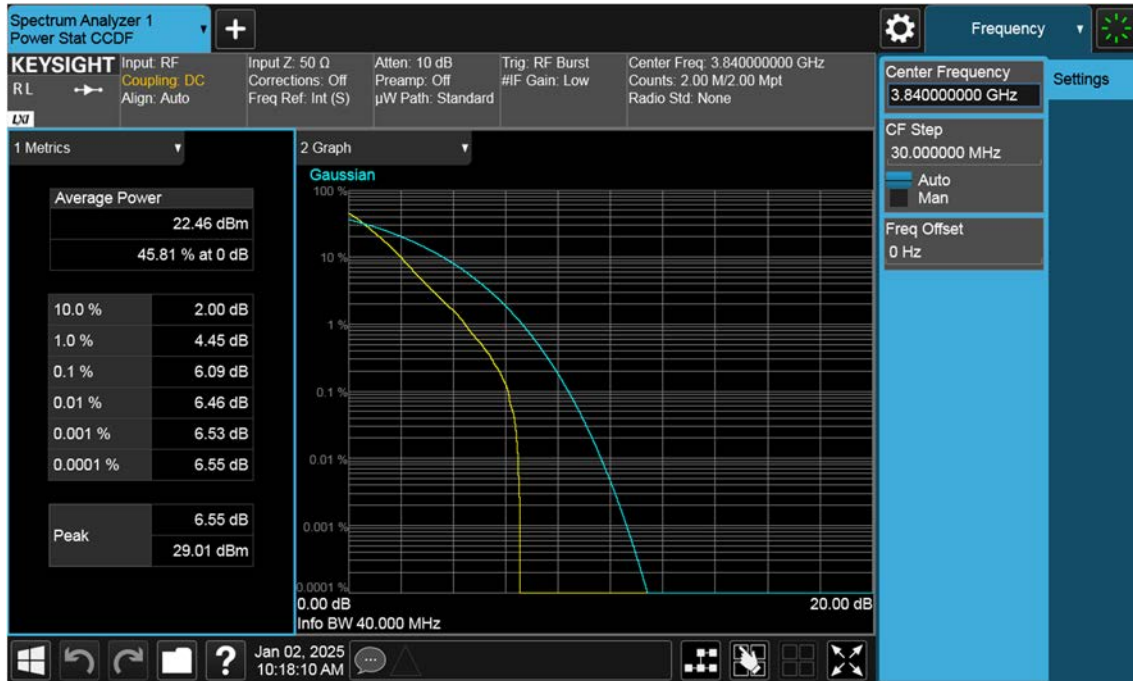
n77(3700~3980 MHz)_30 M_PAR_Mid_64QAM_FullRB



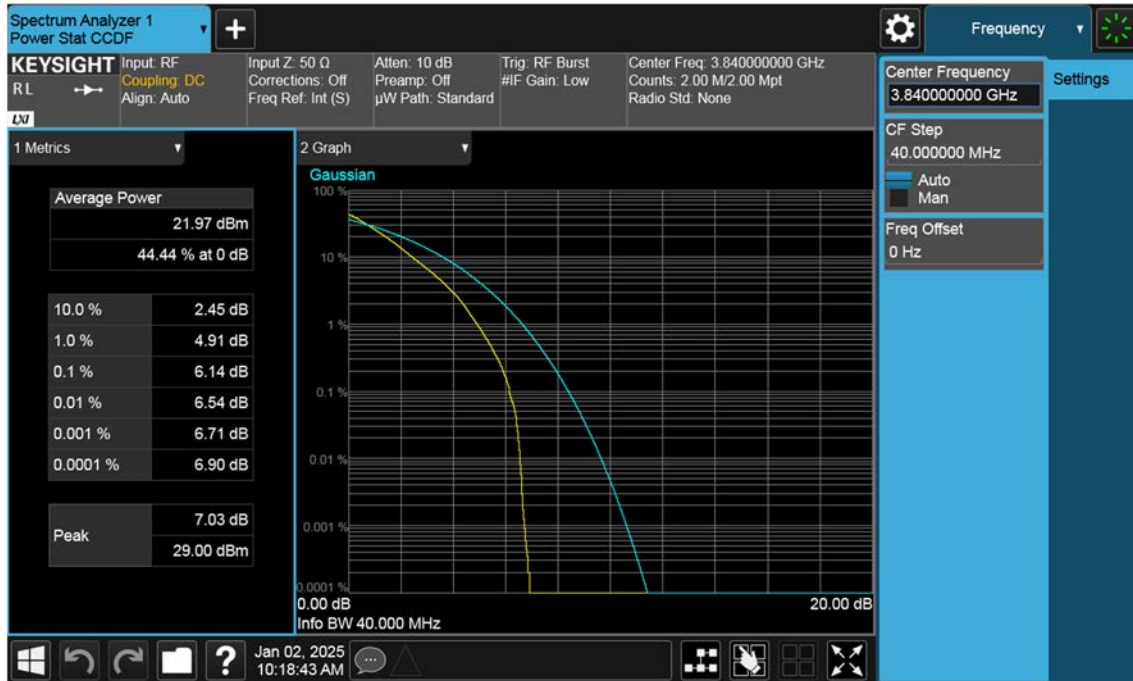
n77(3700~3980 MHz)_30 M_PAR_Mid_256QAM_FullRB



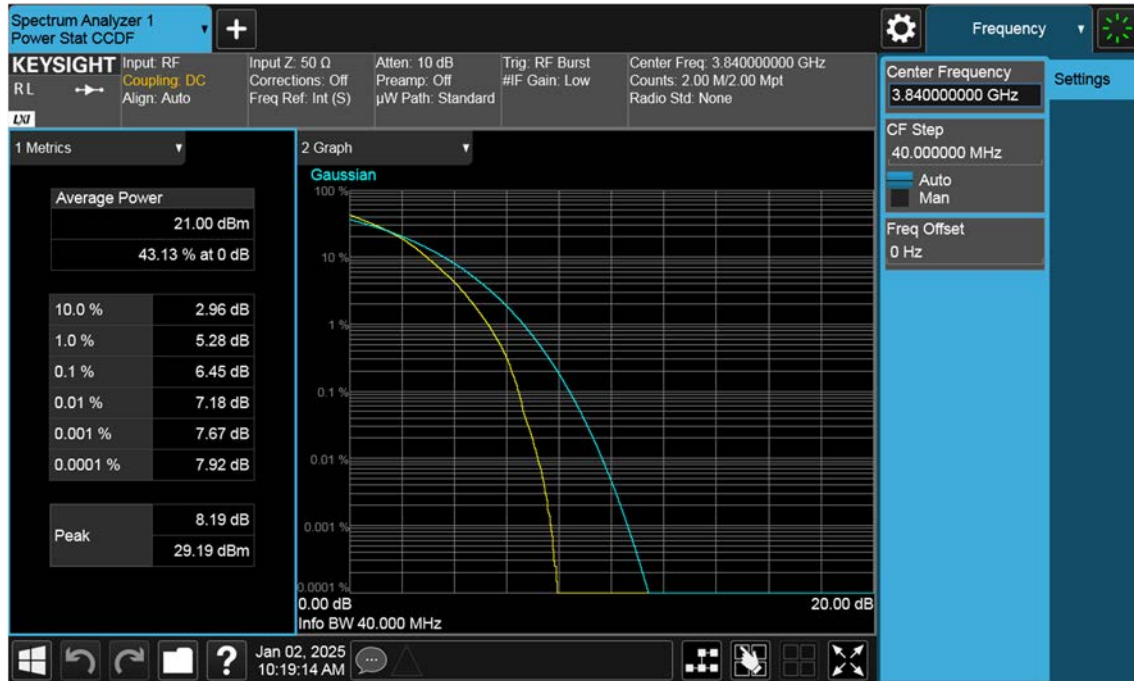
n77(3700~3980 MHz)_40 M_PAR_Mid_BPSK_FullRB



n77(3700~3980 MHz)_40 M_PAR_Mid_QPSK_FullRB



n77(3700~3980 MHz)_40 M_PAR_Mid_16QAM_FullRB



n77(3700~3980 MHz)_40 M_PAR_Mid_64QAM_FullRB

