

NR n77(78)(3450~3550 MHz)\_70 M\_Band Edge\_High\_PI/2 BPSK\_1RB(2)



NR n77(78)(3450~3550 MHz)\_70 M\_Band Edge\_High\_PI/2 BPSK\_FullRB(3)



NR n77(78)(3450~3550 MHz)\_70 M\_Band Edge\_High\_PI/2 BPSK\_1RB(3)



NR n77(78)(3450~3550 MHz)\_80 M\_Band Edge\_Low\_PI/2 BPSK\_FullIRB(1)



NR n77(78)(3450~3550 MHz)\_80 M\_Band Edge\_Low\_PI/2 BPSK\_1RB(1)



NR n77(78)(3450~3550 MHz)\_80 M\_Band Edge\_Low\_PI/2 BPSK\_FullIRB(2)



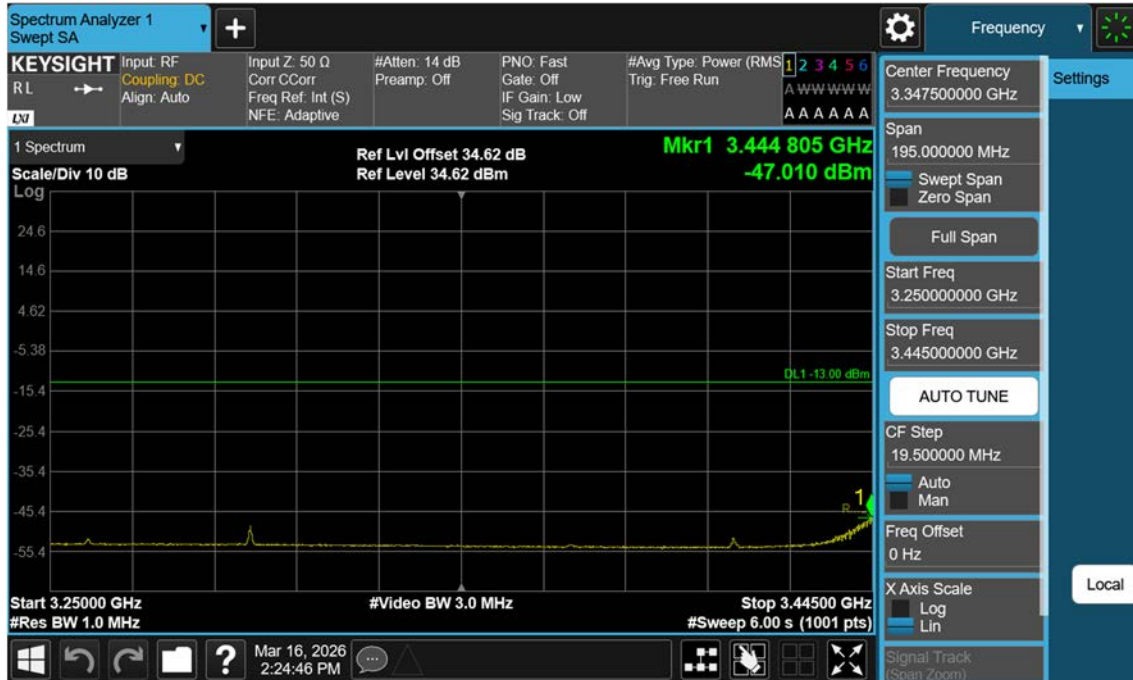
NR n77(78)(3450~3550 MHz)\_80 M\_Band Edge\_Low\_PI/2 BPSK\_1RB(2)



NR n77(78)(3450~3550 MHz)\_80 M\_Band Edge\_Low\_PI/2 BPSK\_FullIRB(3)



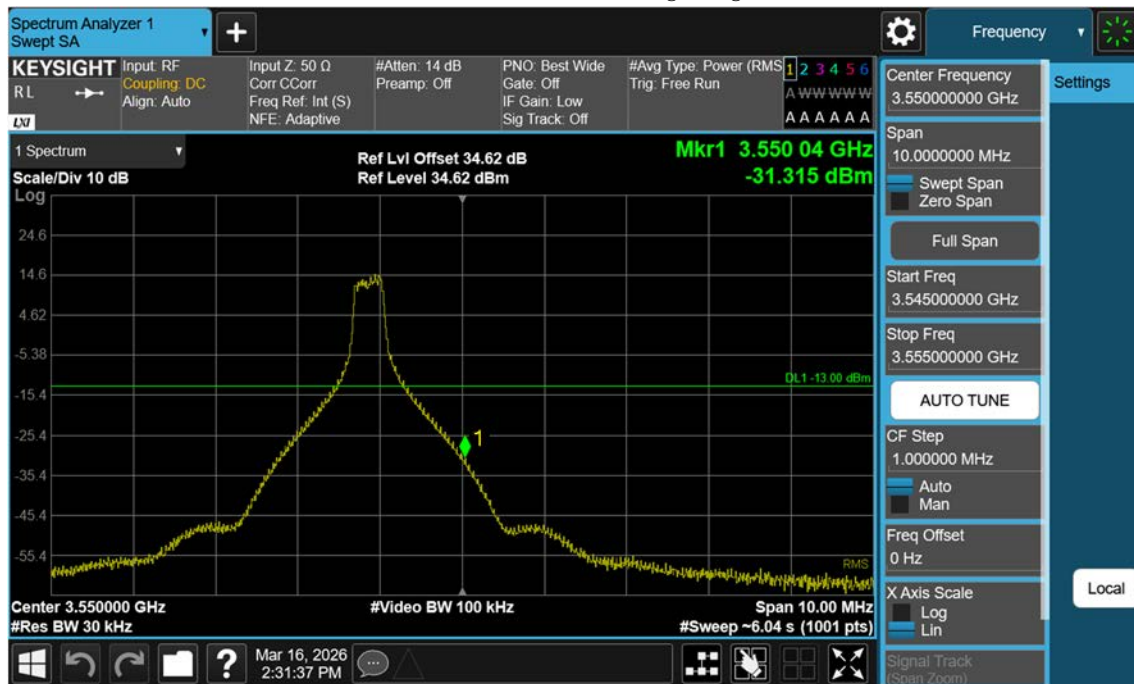
NR n77(78)(3450~3550 MHz)\_80 M\_Band Edge\_Low\_PI/2 BPSK\_1RB(3)



NR n77(78)(3450~3550 MHz)\_80 M\_Band Edge\_High\_PI/2 BPSK\_FullRB(1)



NR n77(78)(3450~3550 MHz)\_80 M\_Band Edge\_High\_PI/2 BPSK\_1RB(1)



NR n77(78)(3450~3550 MHz)\_80 M\_Band Edge\_High\_PI/2 BPSK\_FullRB(2)



NR n77(78)(3450~3550 MHz)\_80 M\_Band Edge\_High\_PI/2 BPSK\_1RB(2)



NR n77(78)(3450~3550 MHz)\_80 M\_Band Edge\_High\_PI/2 BPSK\_FullRB(3)



NR n77(78)(3450~3550 MHz)\_80 M\_Band Edge\_High\_PI/2 BPSK\_1RB(3)



NR n77(78)(3450~3550 MHz)\_90 M\_Band Edge\_Low\_PI/2 BPSK\_FullIRB(1)



NR n77(78)(3450~3550 MHz)\_90 M\_Band Edge\_Low\_PI/2 BPSK\_1RB(1)



NR n77(78)(3450~3550 MHz)\_90 M\_Band Edge\_Low\_PI/2 BPSK\_FullIRB(2)



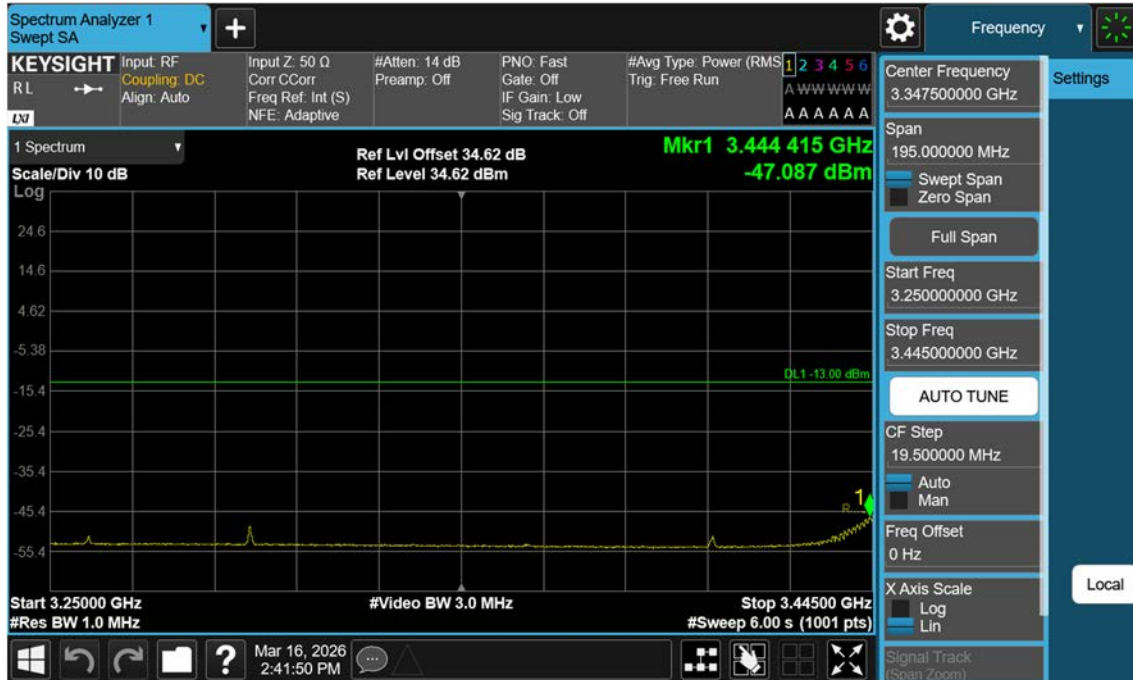
NR n77(78)(3450~3550 MHz)\_90 M\_Band Edge\_Low\_PI/2 BPSK\_1RB(2)



NR n77(78)(3450~3550 MHz)\_90 M\_Band Edge\_Low\_PI/2 BPSK\_FullIRB(3)



NR n77(78)(3450~3550 MHz)\_90 M\_Band Edge\_Low\_PI/2 BPSK\_1RB(3)



NR n77(78)(3450~3550 MHz)\_90 M\_Band Edge\_High\_PI/2 BPSK\_FullRB(1)



NR n77(78)(3450~3550 MHz)\_90 M\_Band Edge\_High\_PI/2 BPSK\_1RB(1)



NR n77(78)(3450~3550 MHz)\_90 M\_Band Edge\_High\_PI/2 BPSK\_FullRB(2)



NR n77(78)(3450~3550 MHz)\_90 M\_Band Edge\_High\_PI/2 BPSK\_1RB(2)



NR n77(78)(3450~3550 MHz)\_90 M\_Band Edge\_High\_PI/2 BPSK\_FullRB(3)

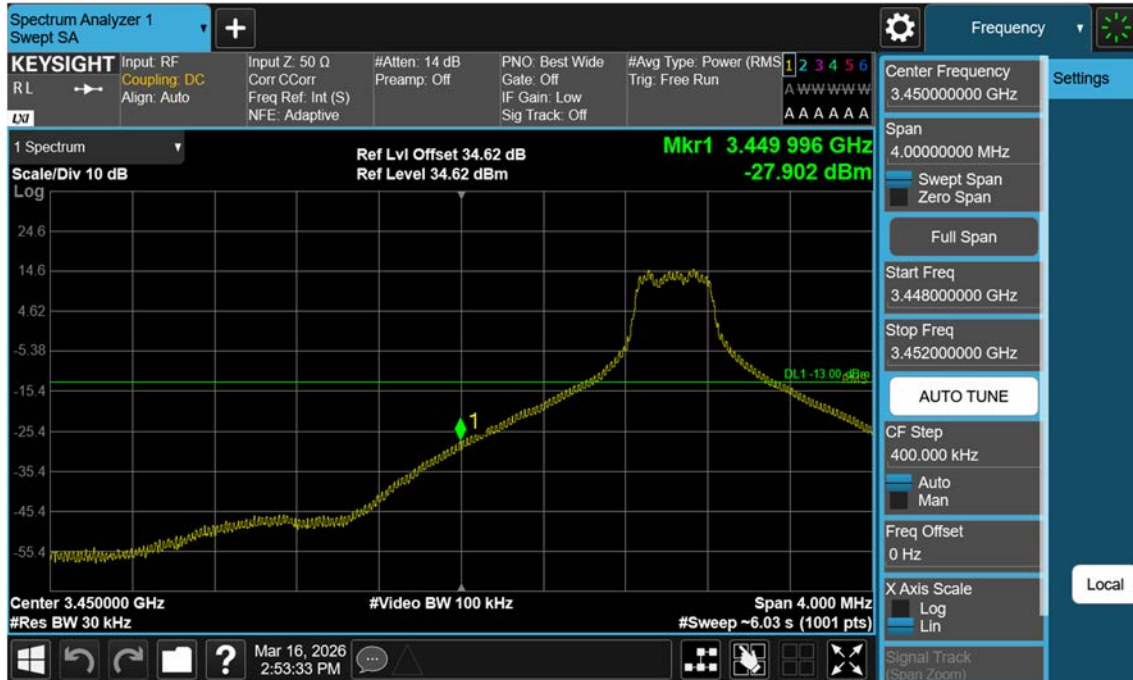


The screenshot displays the Keysight Spectrum Analyzer interface. The top panel shows the title "Spectrum Analyzer 1" and "Swept SA". The main display area shows a signal trace at 3.55535 GHz with a power level of -46.425 dBm. The frequency range is from 3.55500000 GHz to 3.67000000 GHz. The scale is set to 10 dB, and the resolution bandwidth is 3.0 MHz. The interface includes various control panels for input, settings, and frequency, as well as a main display area with a grid and a signal trace.

NR n77(78)(3450~3550 MHz)\_100 M\_Band Edge\_Low\_PI/2 BPSK\_FullIRB(1)



NR n77(78)(3450~3550 MHz)\_100 M\_Band Edge\_Low\_PI/2 BPSK\_1RB(1)



NR n77(78)(3450~3550 MHz)\_100 M\_Band Edge\_Low\_PI/2 BPSK\_FullIRB(2)



NR n77(78)(3450~3550 MHz)\_100 M\_Band Edge\_Low\_PI/2 BPSK\_1RB(2)



NR n77(78)(3450~3550 MHz)\_100 M\_Band Edge\_Low\_PI/2 BPSK\_FullIRB(3)



NR n77(78)(3450~3550 MHz)\_100 M\_Band Edge\_Low\_PI/2 BPSK\_1RB(3)



**Keysight Spectrum Analyzer 1**  
Swept SA

**Input:** RF  
**Coupling:** DC  
**Align:** Auto

**Input Z:** 50  $\Omega$   
**Corr:** CCorr  
**Freq Ref:** Int (S)  
**NFE:** Adaptive

**#Atten:** 14 dB  
**Preamp:** Off

**PNO:** Best Wide  
**Gate:** Off  
**IF Gain:** Low  
**Sig Track:** Off

**#Avg Type:** Power (RMS)  
**Trng:** Free Run

**Frequency Range:** 1 2 3 4 5 6  
A WWW WWW W  
A A A A A A A

**Center Frequency:** 3.55000000 GHz

**Span:** 10.0000000 MHz

**Swept Span**  
**Zero Span**

**Full Span**

**Start Freq:** 3.545000000 GHz

**Stop Freq:** 3.555000000 GHz

**AUTO TUNE**

**CF Step:** 1.000000 MHz

**Auto**  
**Man**

**Freq Offset:** 0 Hz

**X Axis Scale:**  
**Log**  
**Lin**

**Signal Track:**  
(Span Zoom)

**1 Spectrum**  
Scale/Div 10 dB  
Log

**Ref Lvl Offset 34.62 dB**  
**Ref Level 34.62 dBm**

**Mkr1 3.550 40 GHz**  
**-35.362 dBm**

**DL1 -13.00 dBm**

**Center 3.550000 GHz**  
**#Res BW 200 kHz**

**#Video BW 1.0 MHz**  
**Span 10.00 MHz**  
**#Sweep ~6.04 s (1001 pts)**

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NR n77(78)(3450~3550 MHz)\_100 M\_Band Edge\_High\_PI/2 BPSK\_FullRB(2)



NR n77(78)(3450~3550 MHz)\_100 M\_Band Edge\_High\_PI/2 BPSK\_1RB(2)



NR n77(78)(3450~3550 MHz)\_100 M\_Band Edge\_High\_PI/2 BPSK\_FullRB(3)



NR n77(78)(3450~3550 MHz)\_100 M\_Band Edge\_High\_PI/2 BPSK\_1RB(3)



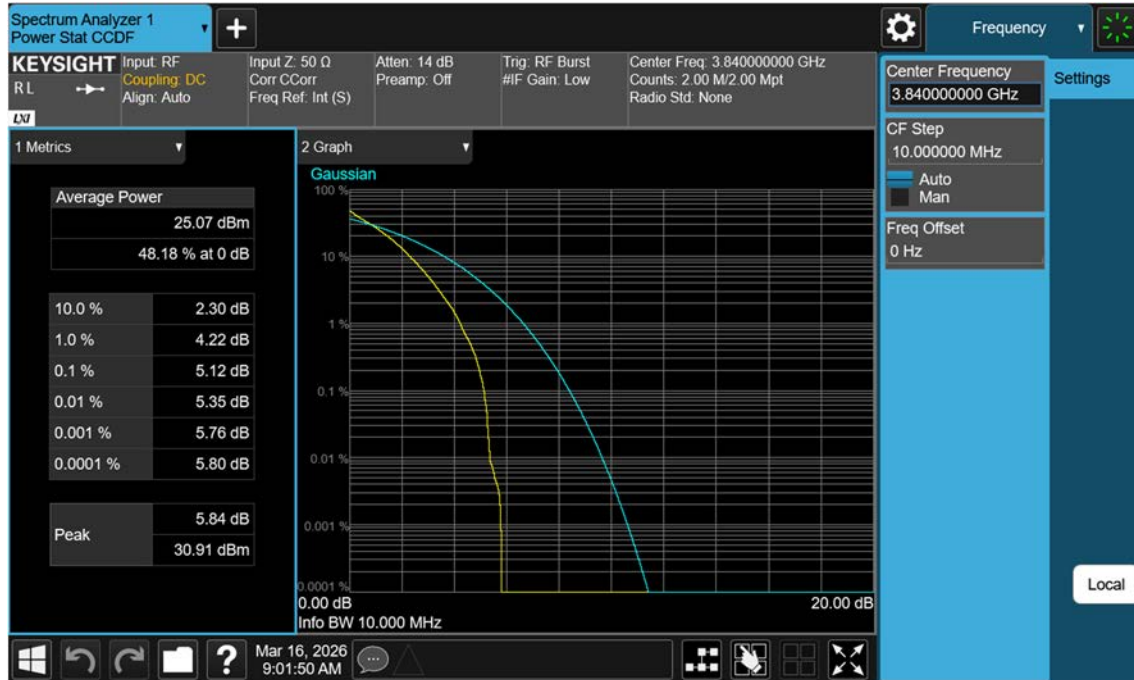
## 11. TEST PLOTS(3700 MHz - 3980 MHz)

## 11.1 PEAK-TO-AVERAGE RATIO

NR n77(78)(3700~3980 MHz)\_10 M\_PAR\_Mid\_PI/2 BPSK\_FullIRB



NR n77(78)(3700~3980 MHz)\_10 M\_PAR\_Mid\_QPSK\_FullRB



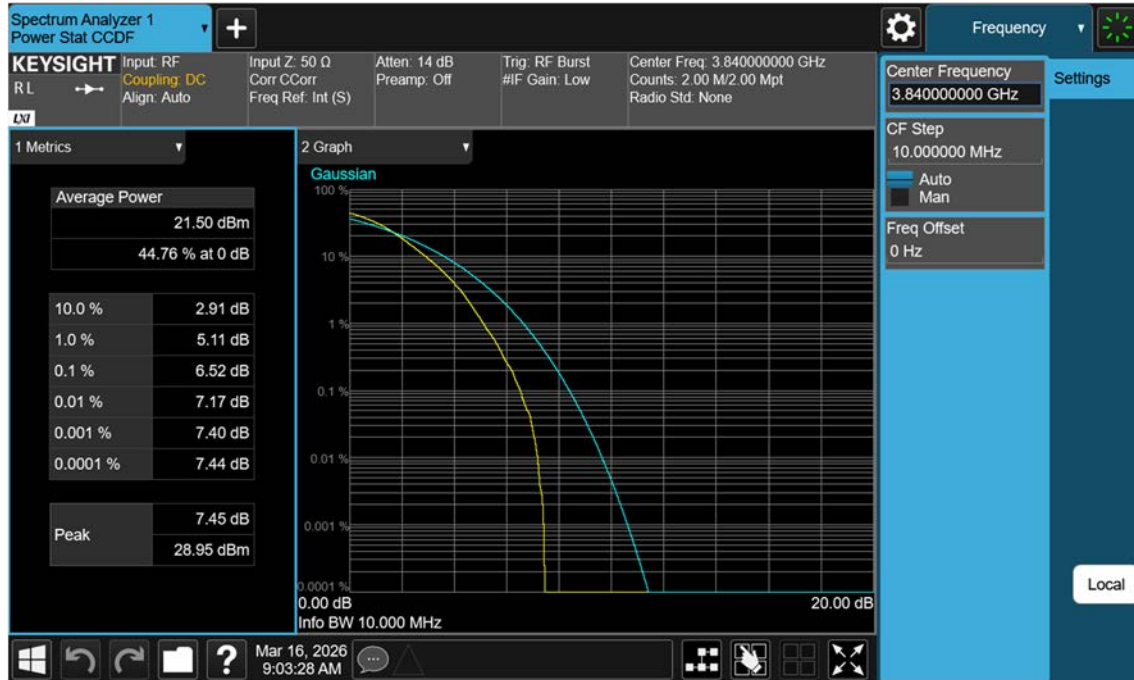
NR n77(78)(3700~3980 MHz)\_10 M\_PAR\_Mid\_16QAM\_FullRB



NR n77(78)(3700~3980 MHz)\_10 M\_PAR\_Mid\_64QAM\_FullRB



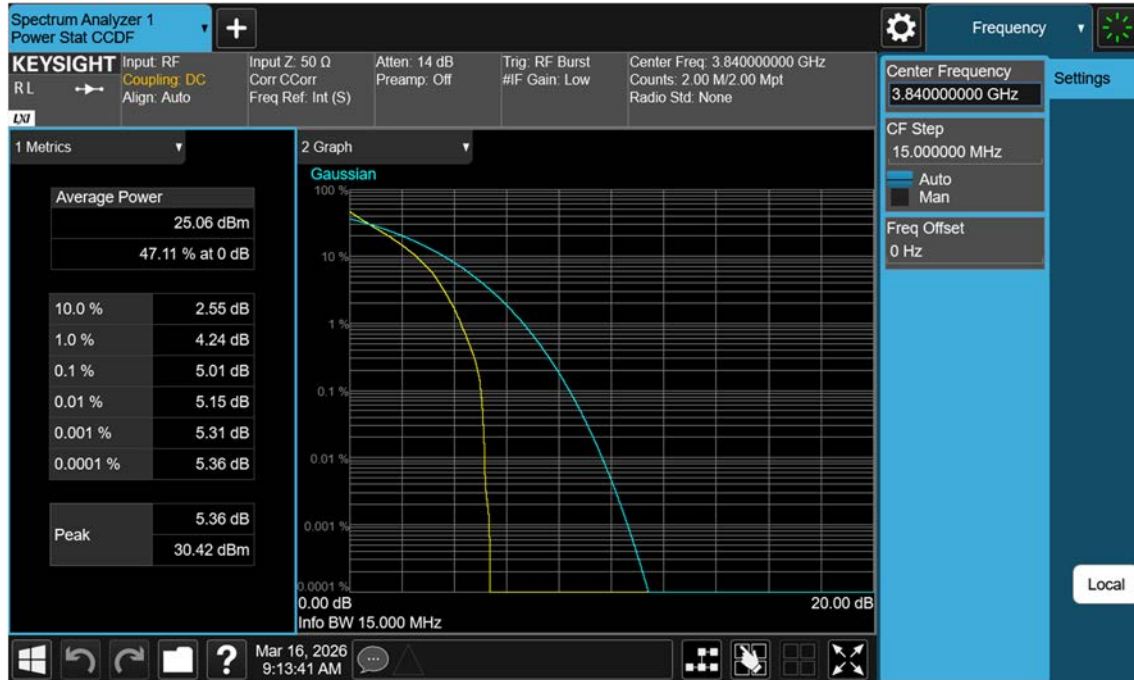
NR n77(78)(3700~3980 MHz)\_10 M\_PAR\_Mid\_256QAM\_FullRB



NR n77(78)(3700~3980 MHz)\_15 M\_PAR\_Mid\_PI/2 BPSK\_FullIRB



NR n77(78)(3700~3980 MHz)\_15 M\_PAR\_Mid\_QPSK\_FullRB



NR n77(78)(3700~3980 MHz)\_15 M\_PAR\_Mid\_16QAM\_FullRB



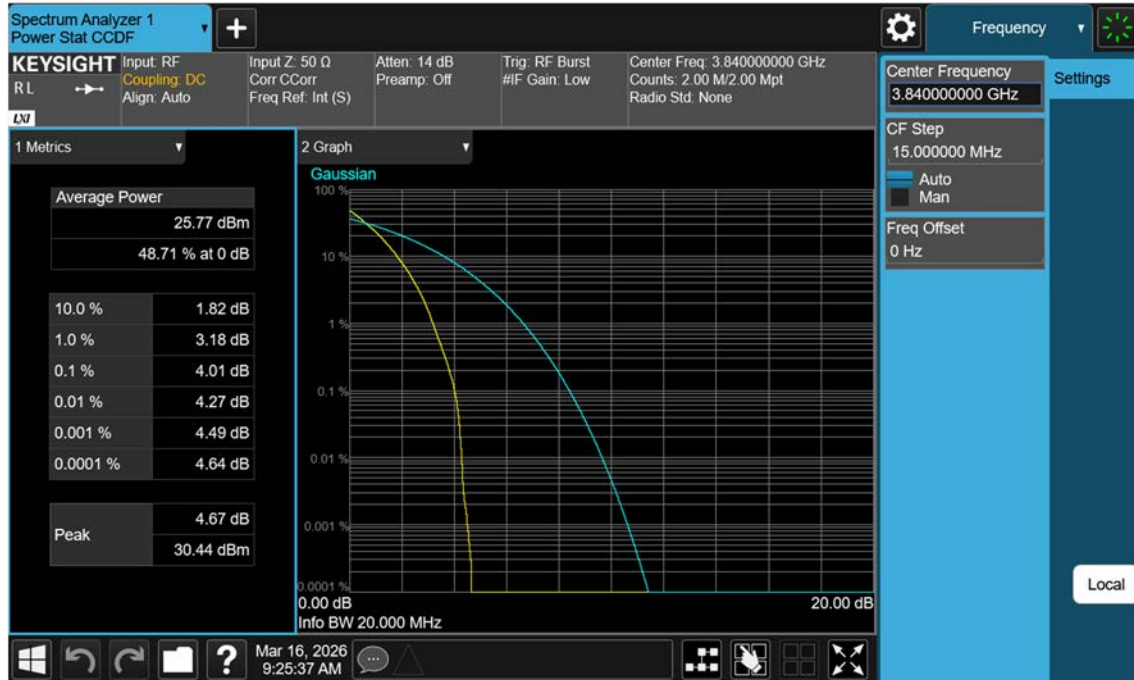
NR n77(78)(3700~3980 MHz)\_15 M\_PAR\_Mid\_64QAM\_FullRB



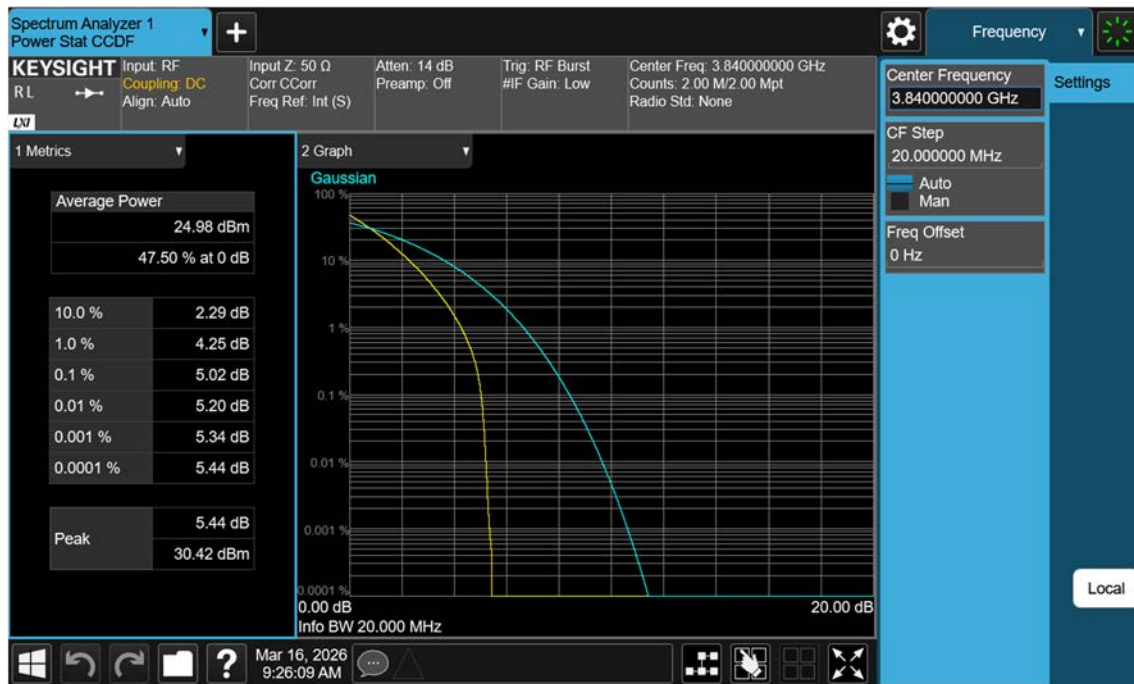
NR n77(78)(3700~3980 MHz)\_15 M\_PAR\_Mid\_256QAM\_FullRB



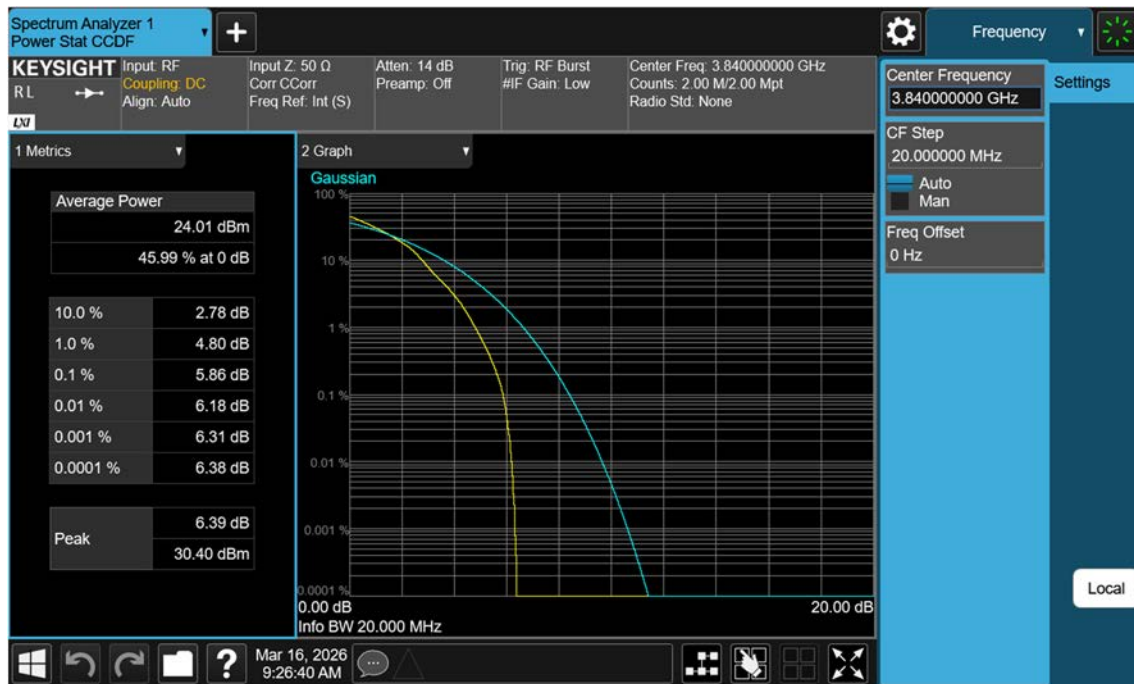
NR n77(78)(3700~3980 MHz)\_20 M\_PAR\_Mid\_PI/2 BPSK\_FullIRB



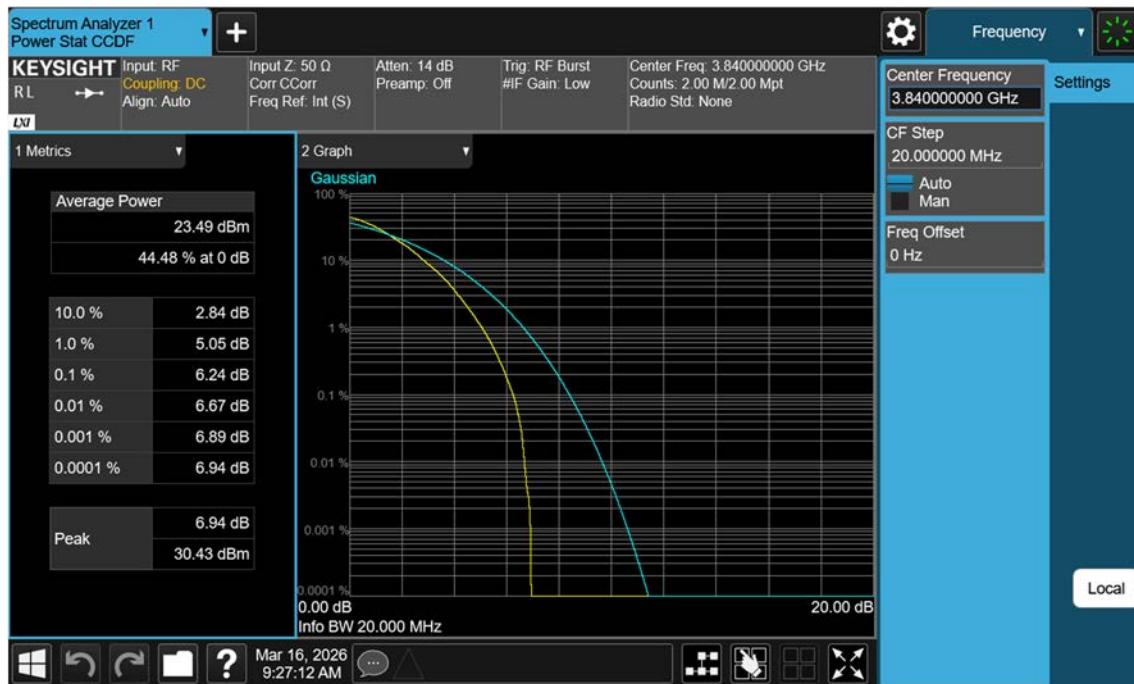
NR n77(78)(3700~3980 MHz)\_20 M\_PAR\_Mid\_QPSK\_FullRB



NR n77(78)(3700~3980 MHz)\_20 M\_PAR\_Mid\_16QAM\_FullRB



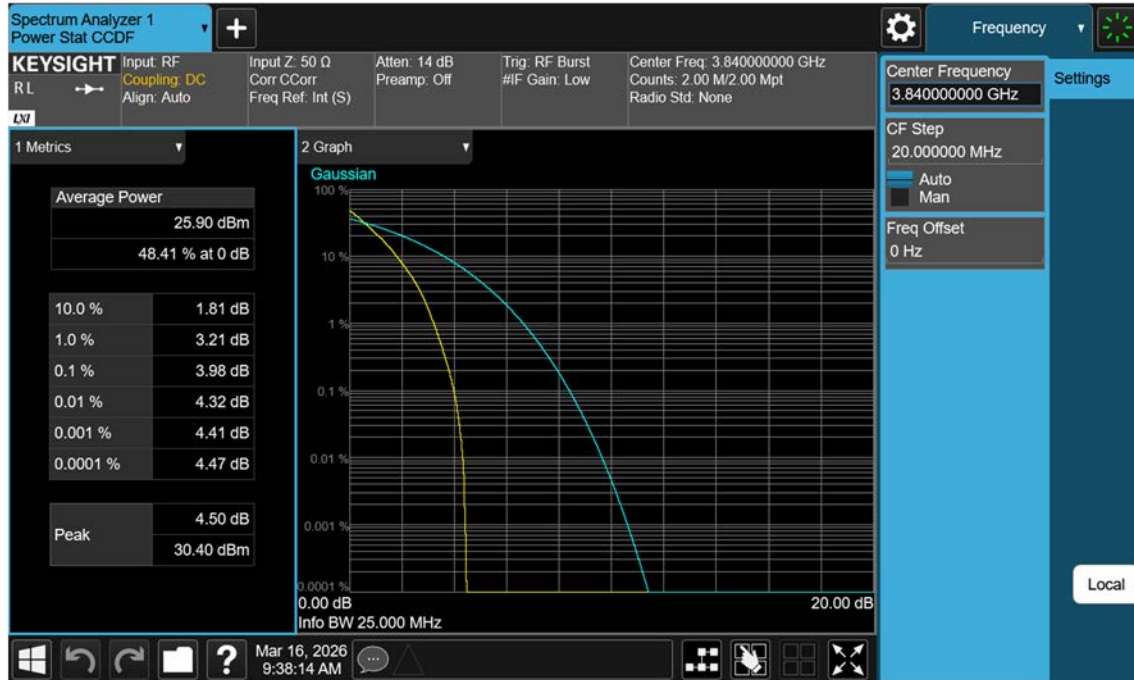
NR n77(78)(3700~3980 MHz)\_20 M\_PAR\_Mid\_64QAM\_FullRB



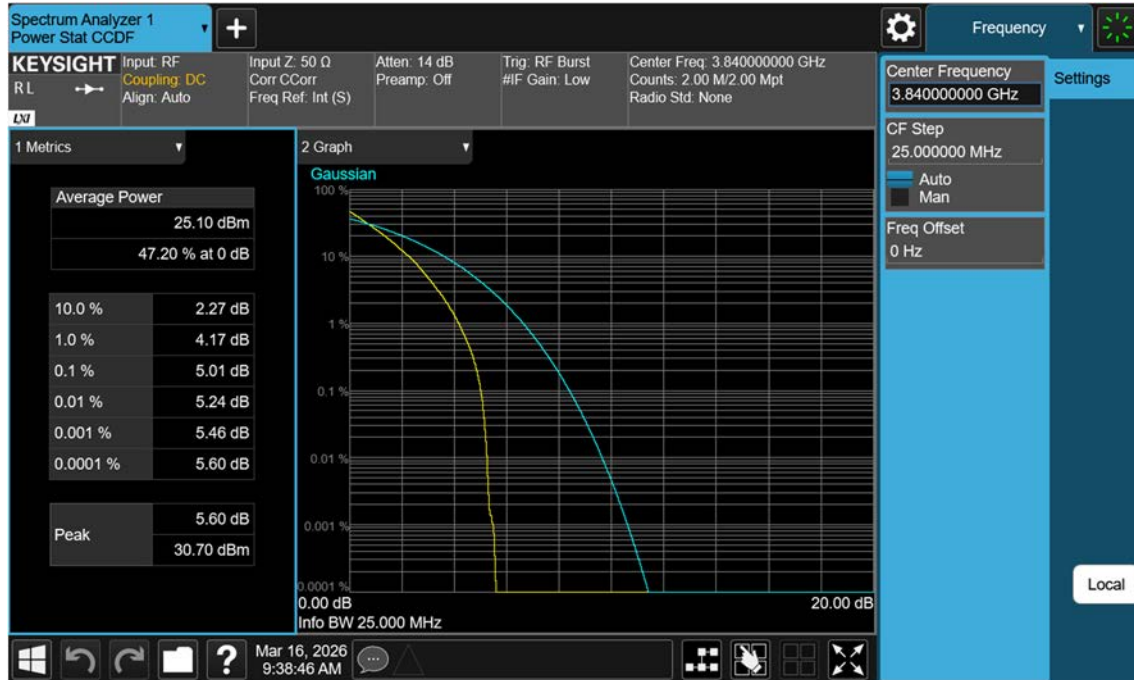
NR n77(78)(3700~3980 MHz)\_20 M\_PAR\_Mid\_256QAM\_FullRB



NR n77(78)(3700~3980 MHz)\_25 M\_PAR\_Mid\_PI/2 BPSK\_FullIRB



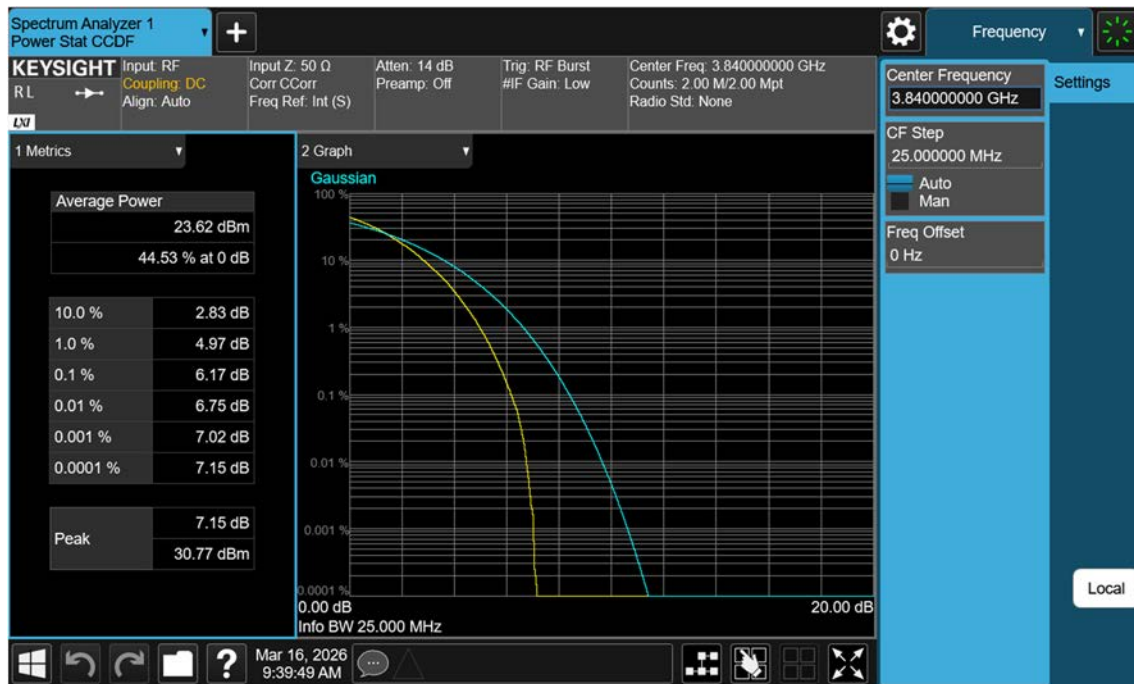
NR n77(78)(3700~3980 MHz)\_25 M\_PAR\_Mid\_QPSK\_FullRB



NR n77(78)(3700~3980 MHz)\_25 M\_PAR\_Mid\_16QAM\_FullRB



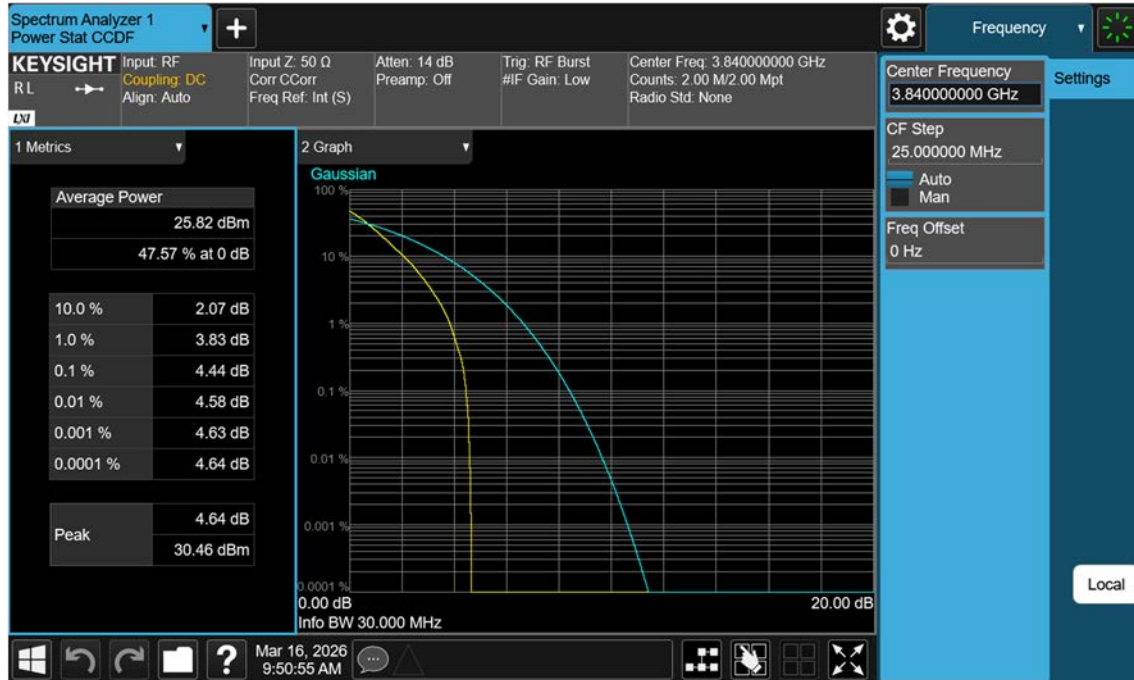
NR n77(78)(3700~3980 MHz)\_25 M\_PAR\_Mid\_64QAM\_FullRB



NR n77(78)(3700~3980 MHz)\_25 M\_PAR\_Mid\_256QAM\_FullRB



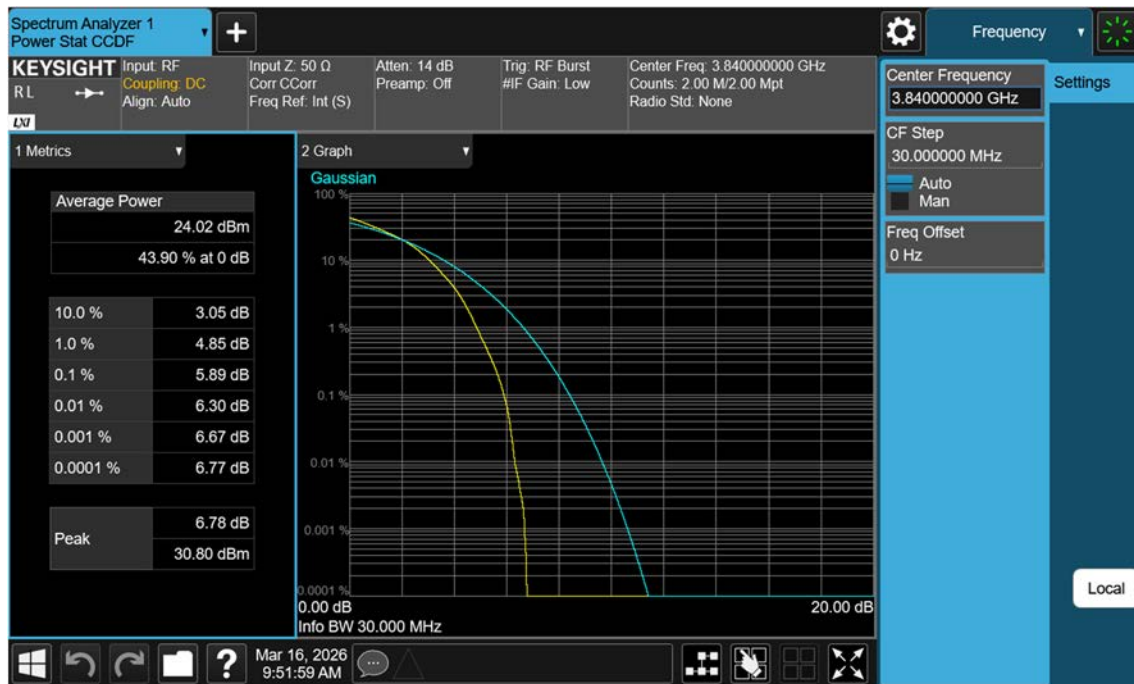
NR n77(78)(3700~3980 MHz)\_30 M\_PAR\_Mid\_PI/2 BPSK\_FullIRB



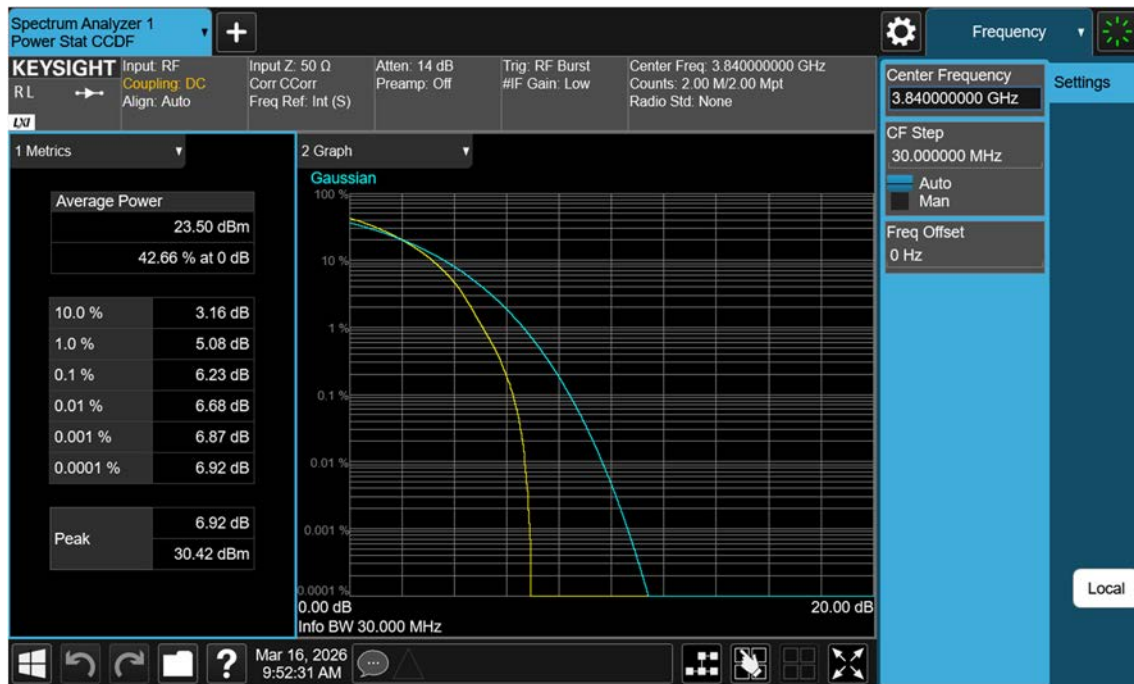
NR n77(78)(3700~3980 MHz)\_30 M\_PAR\_Mid\_QPSK\_FullRB



NR n77(78)(3700~3980 MHz)\_30 M\_PAR\_Mid\_16QAM\_FullRB



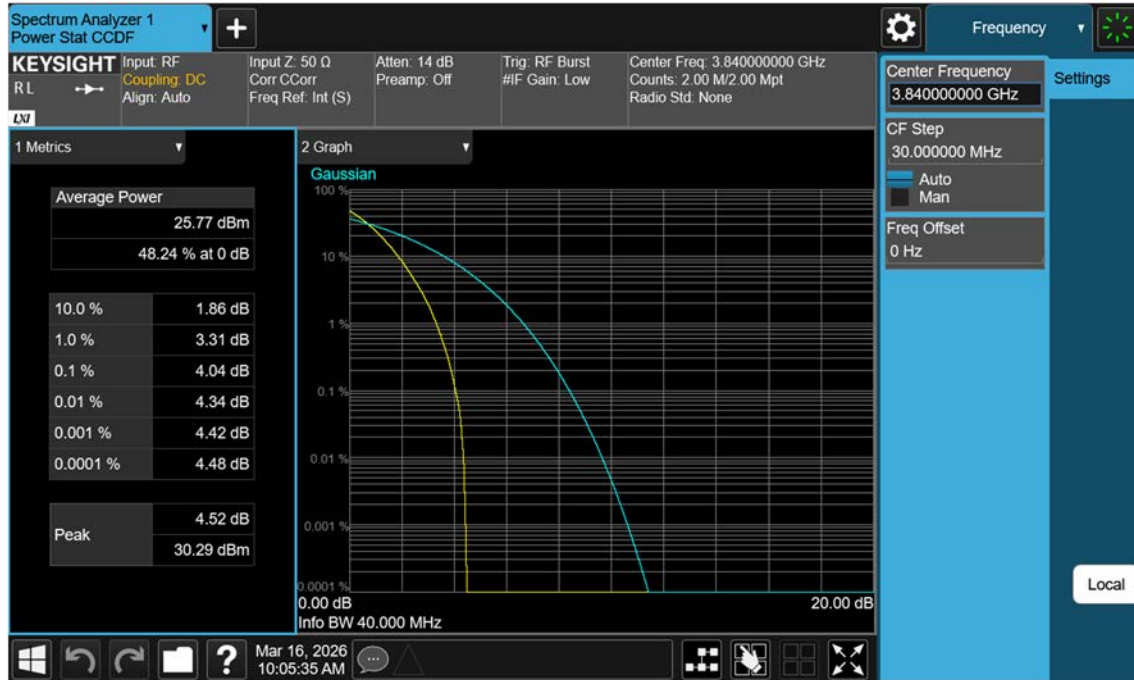
NR n77(78)(3700~3980 MHz)\_30 M\_PAR\_Mid\_64QAM\_FullRB



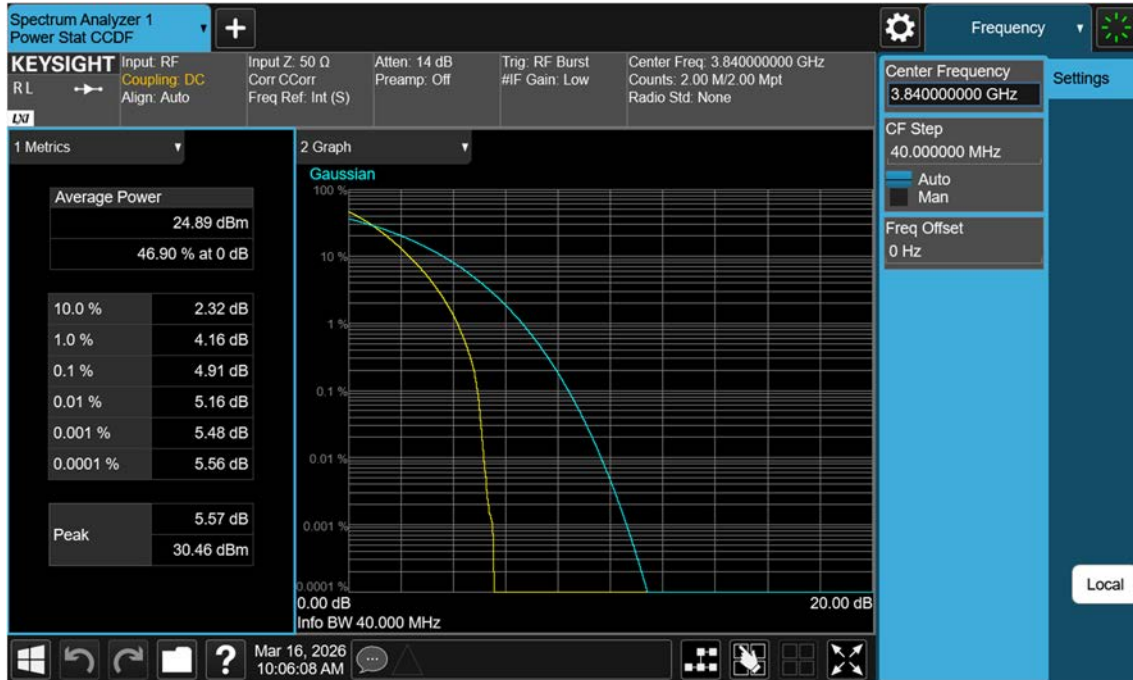
NR n77(78)(3700~3980 MHz)\_30 M\_PAR\_Mid\_256QAM\_FullRB



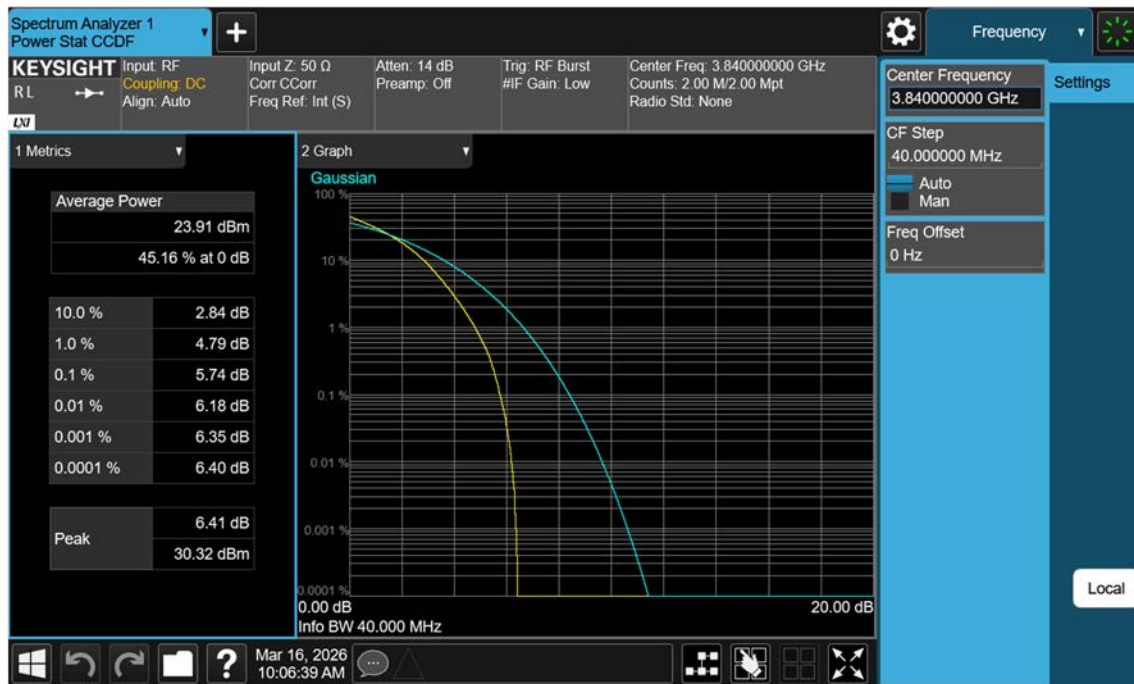
NR n77(78)(3700~3980 MHz)\_40 M\_PAR\_Mid\_PI/2 BPSK\_FullIRB



NR n77(78)(3700~3980 MHz)\_40 M\_PAR\_Mid\_QPSK\_FullRB



NR n77(78)(3700~3980 MHz)\_40 M\_PAR\_Mid\_16QAM\_FullRB



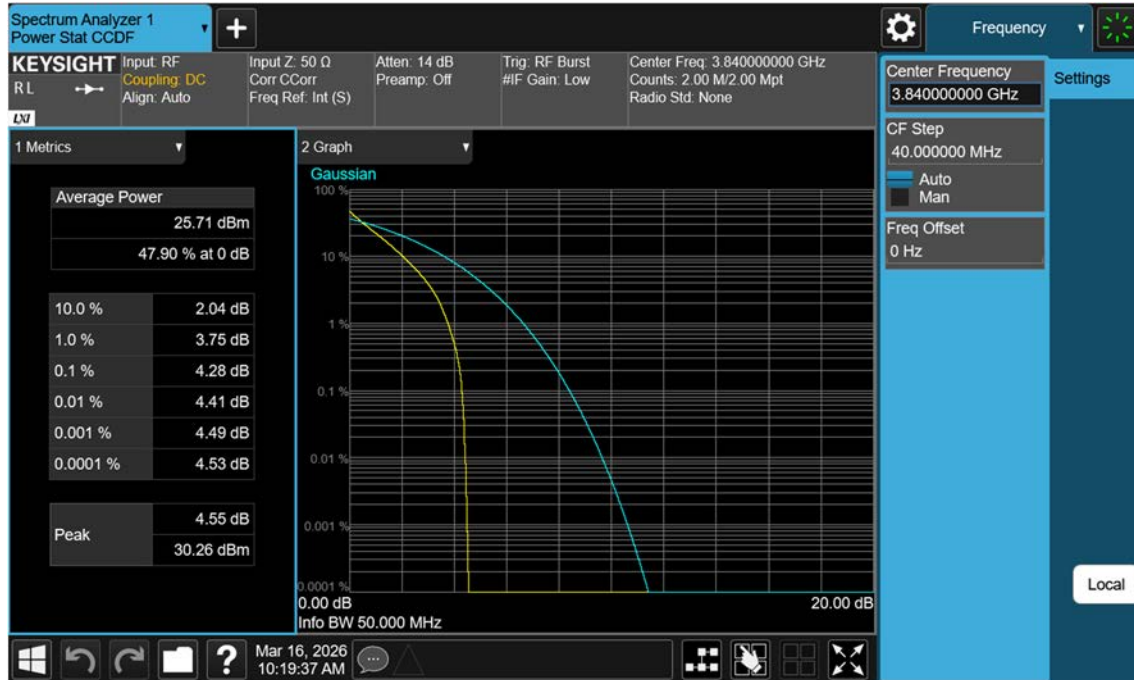
NR n77(78)(3700~3980 MHz)\_40 M\_PAR\_Mid\_64QAM\_FullRB



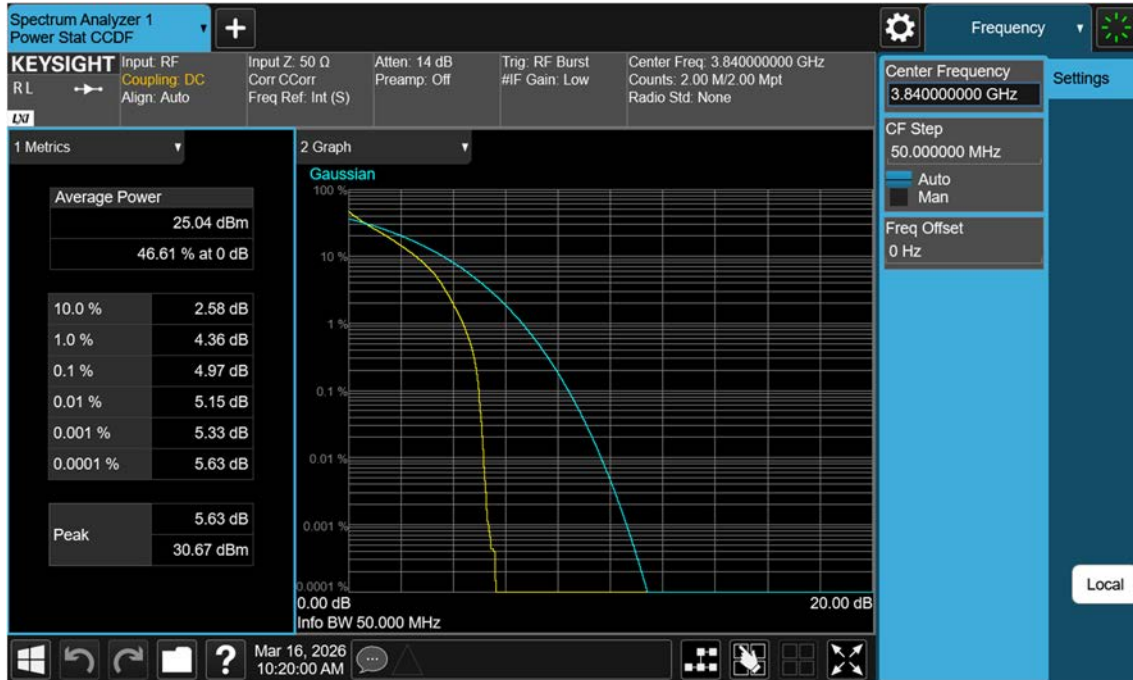
NR n77(78)(3700~3980 MHz)\_40 M\_PAR\_Mid\_256QAM\_FullRB



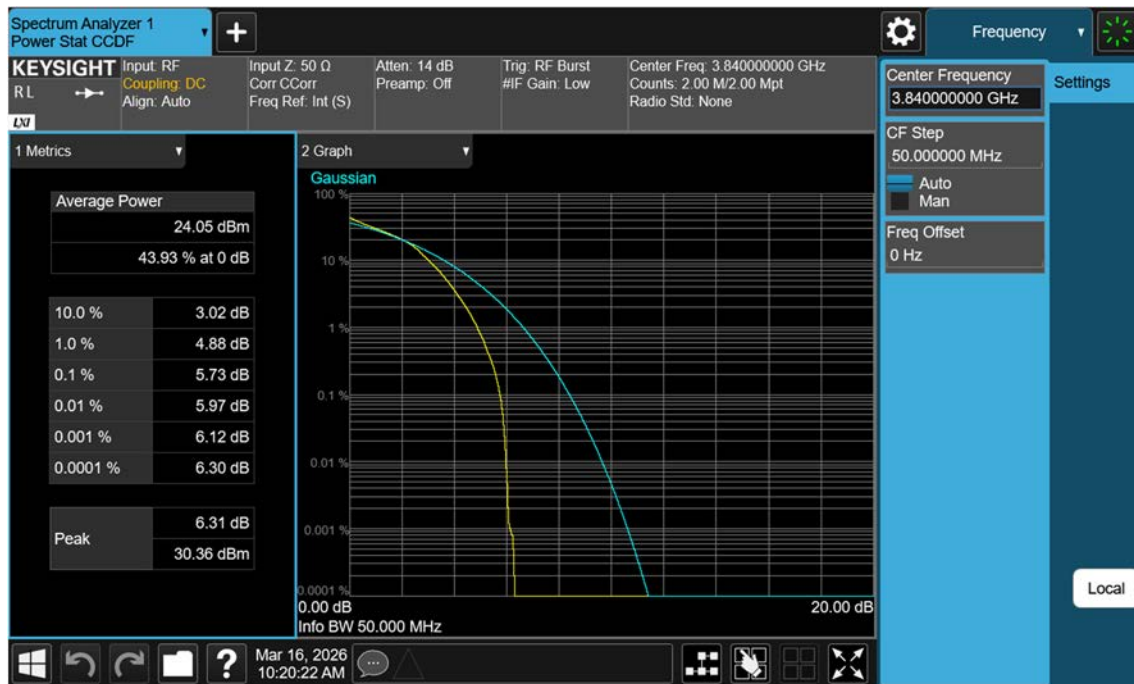
NR n77(78)(3700~3980 MHz)\_50 M\_PAR\_Mid\_PI/2 BPSK\_FullIRB



NR n77(78)(3700~3980 MHz)\_50 M\_PAR\_Mid\_QPSK\_FullRB



NR n77(78)(3700~3980 MHz)\_50 M\_PAR\_Mid\_16QAM\_FullRB



NR n77(78)(3700~3980 MHz)\_50 M\_PAR\_Mid\_64QAM\_FullRB



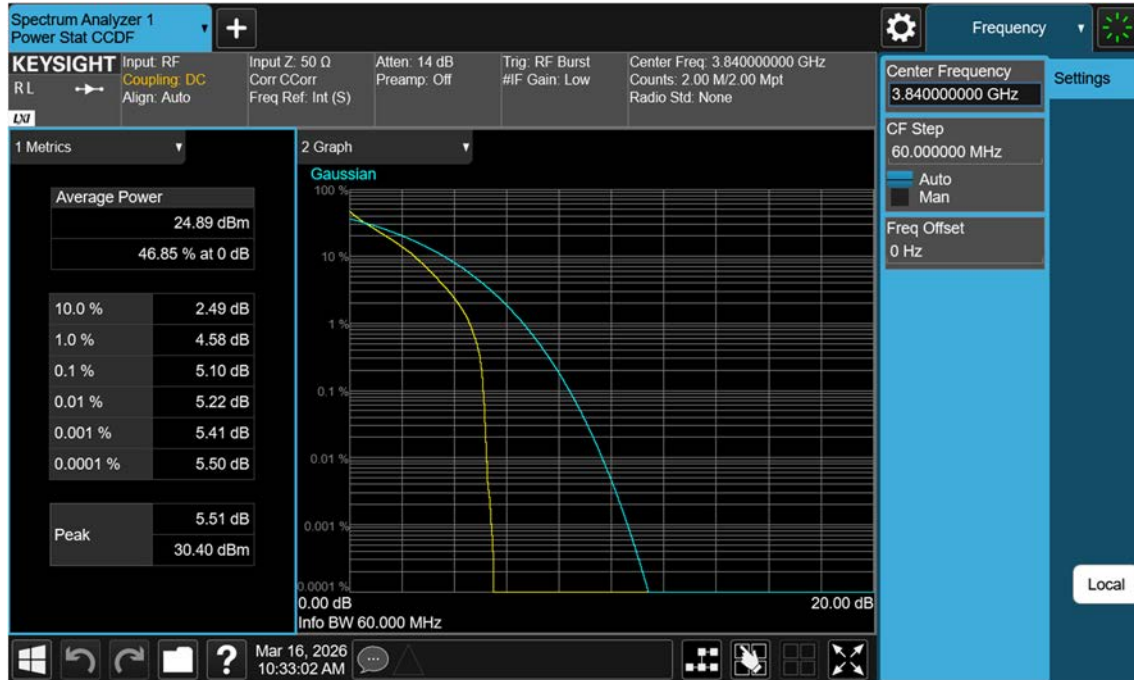
NR n77(78)(3700~3980 MHz)\_50 M\_PAR\_Mid\_256QAM\_FullRB



NR n77(78)(3700~3980 MHz)\_60 M\_PAR\_Mid\_PI/2 BPSK\_FullIRB



NR n77(78)(3700~3980 MHz)\_60 M\_PAR\_Mid\_QPSK\_FullRB



NR n77(78)(3700~3980 MHz)\_60 M\_PAR\_Mid\_16QAM\_FullRB

