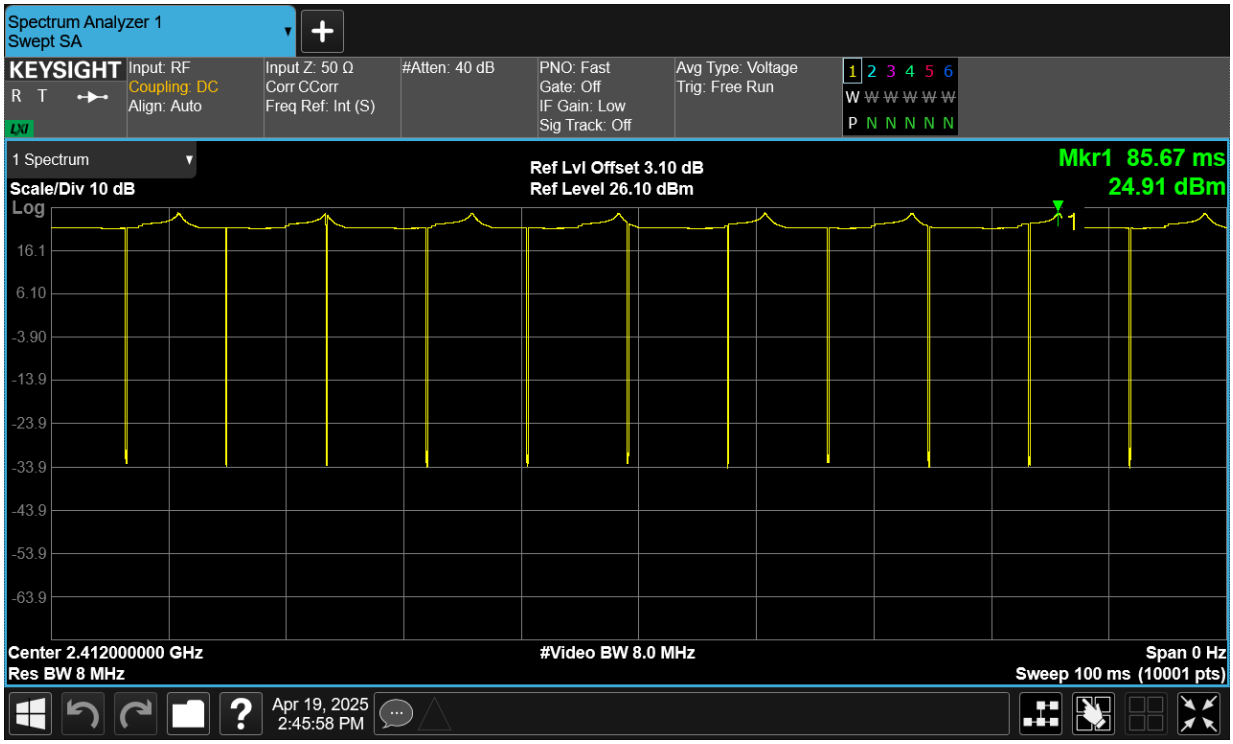
Test Data

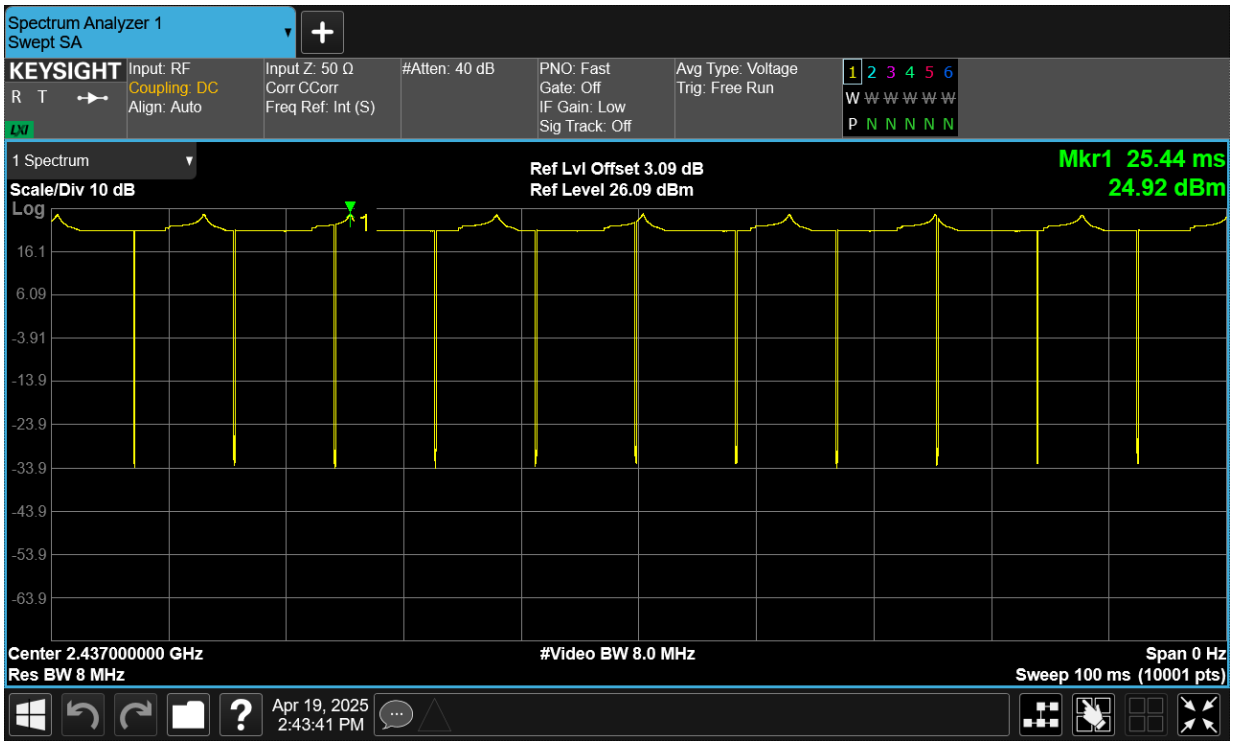
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	Ant12	100	0
NVNT	b	2437	Ant12	100	0
NVNT	b	2462	Ant12	100	0
NVNT	g	2412	Ant12	100	0
NVNT	g	2437	Ant12	100	0
NVNT	g	2462	Ant12	100	0
NVNT	n20	2412	Ant12	100	0
NVNT	n20	2437	Ant12	100	0
NVNT	n20	2462	Ant12	100	0

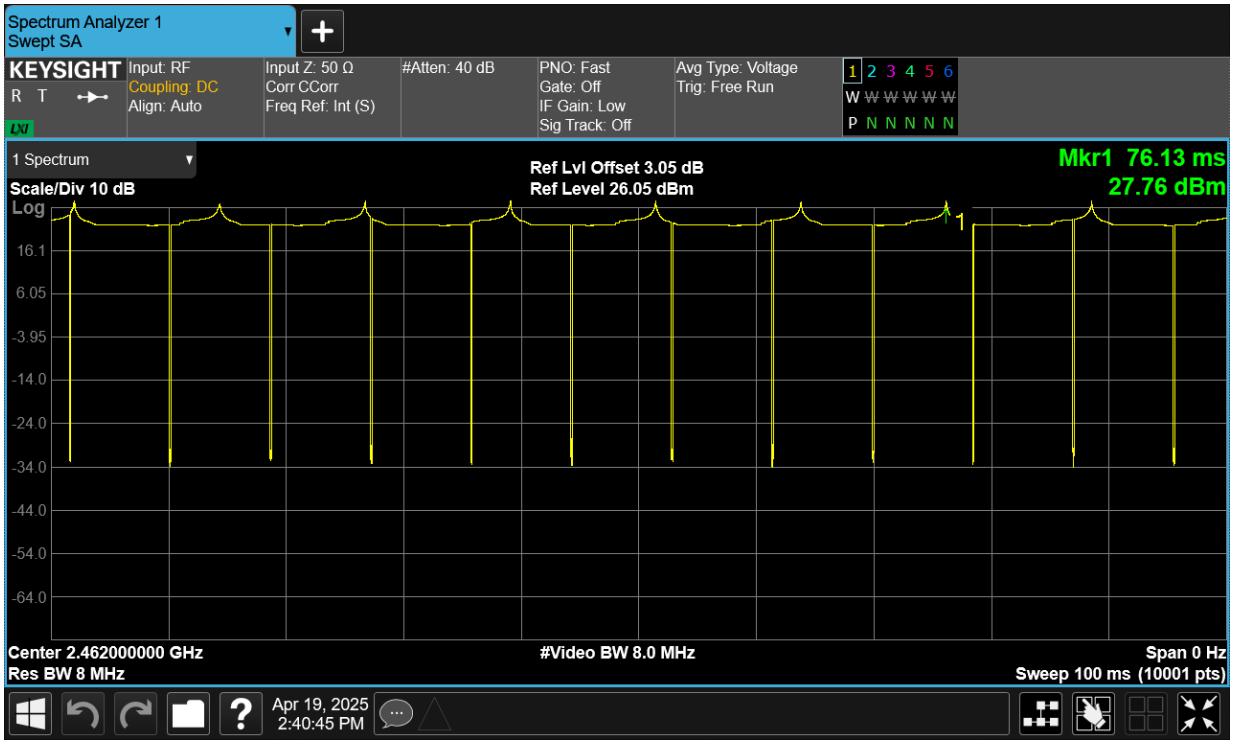
Test Graphs
Duty Cycle NVNT b 2412MHz Ant12



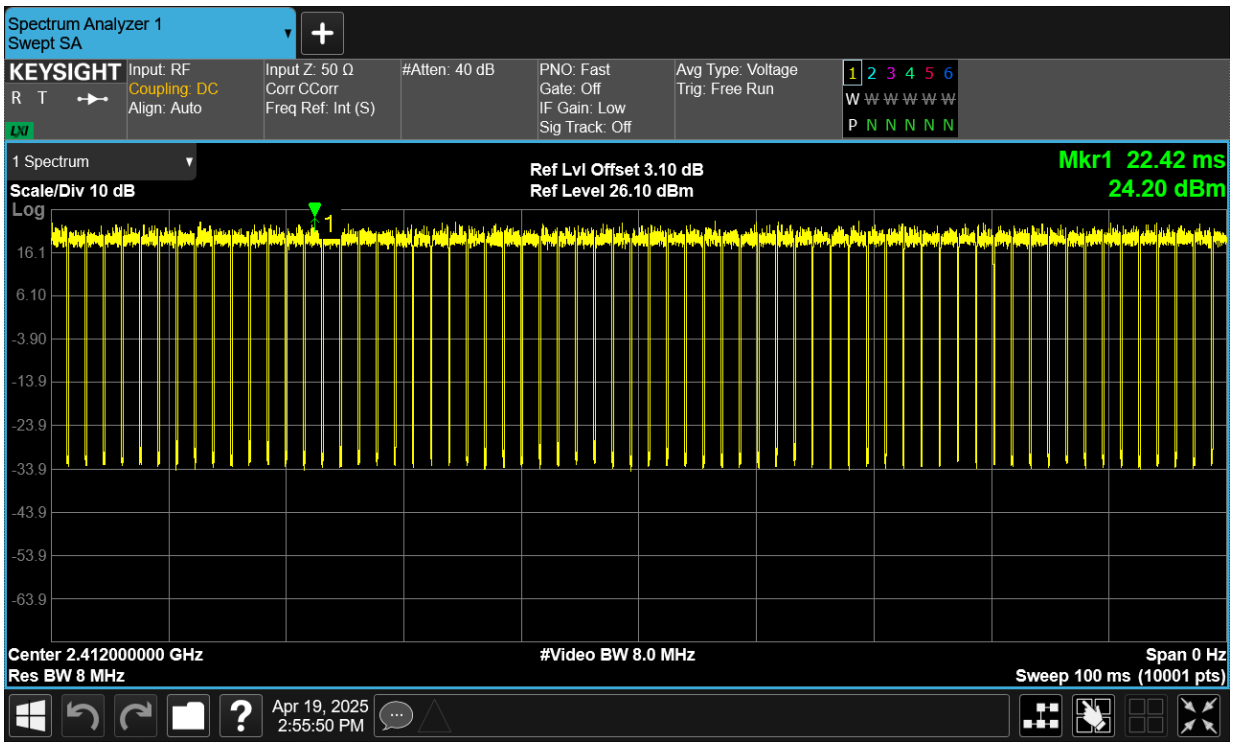
Duty Cycle NVNT b 2437MHz Ant12



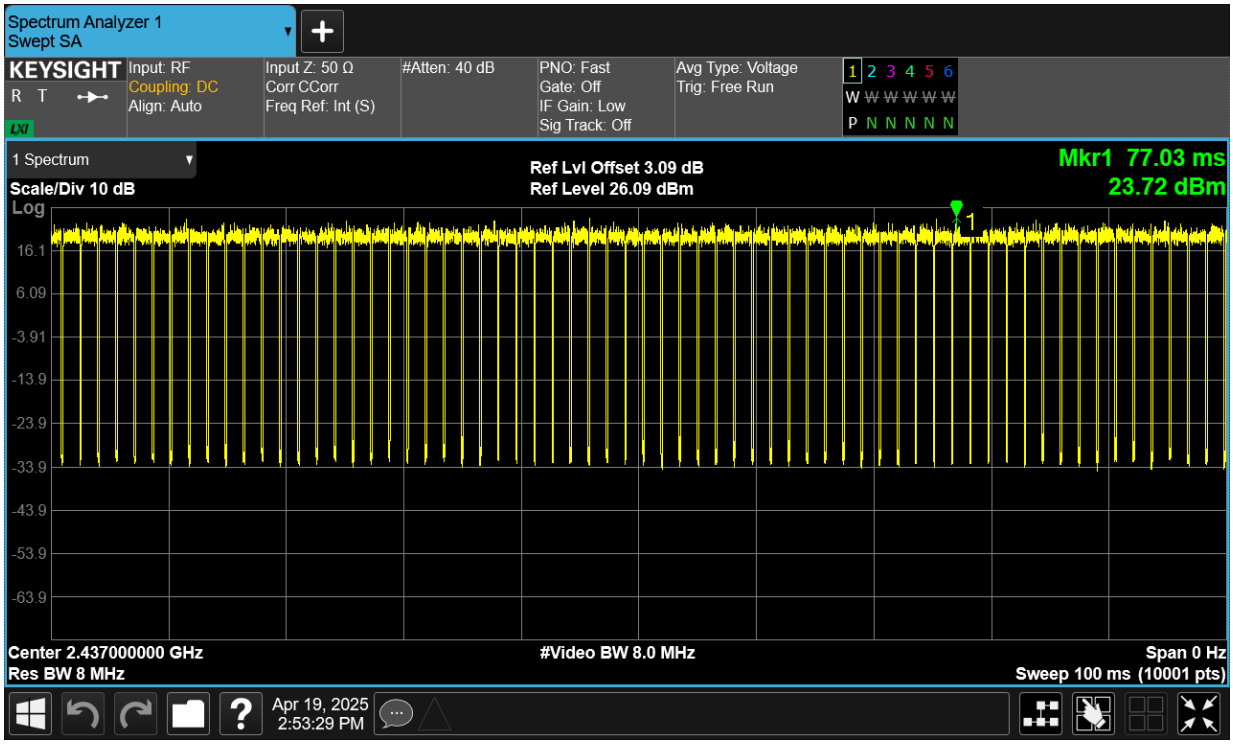
Duty Cycle NVNT b 2462MHz Ant12



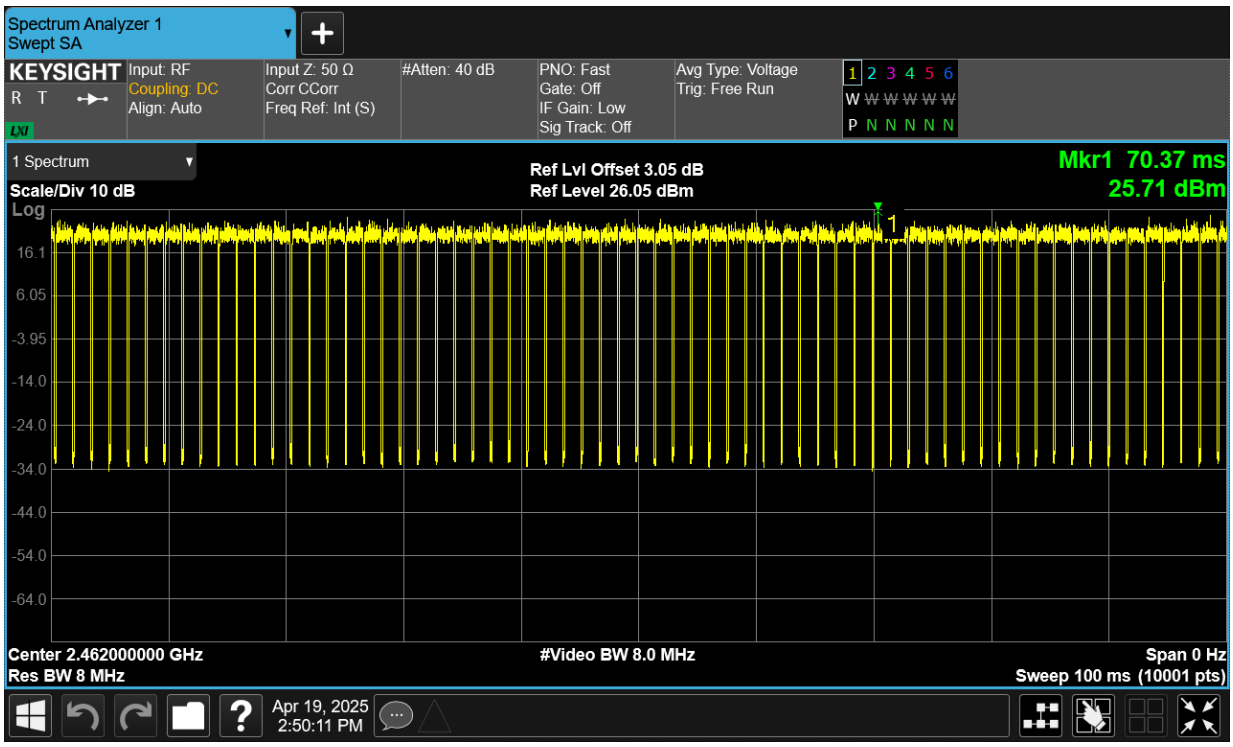
Duty Cycle NVNT g 2412MHz Ant12



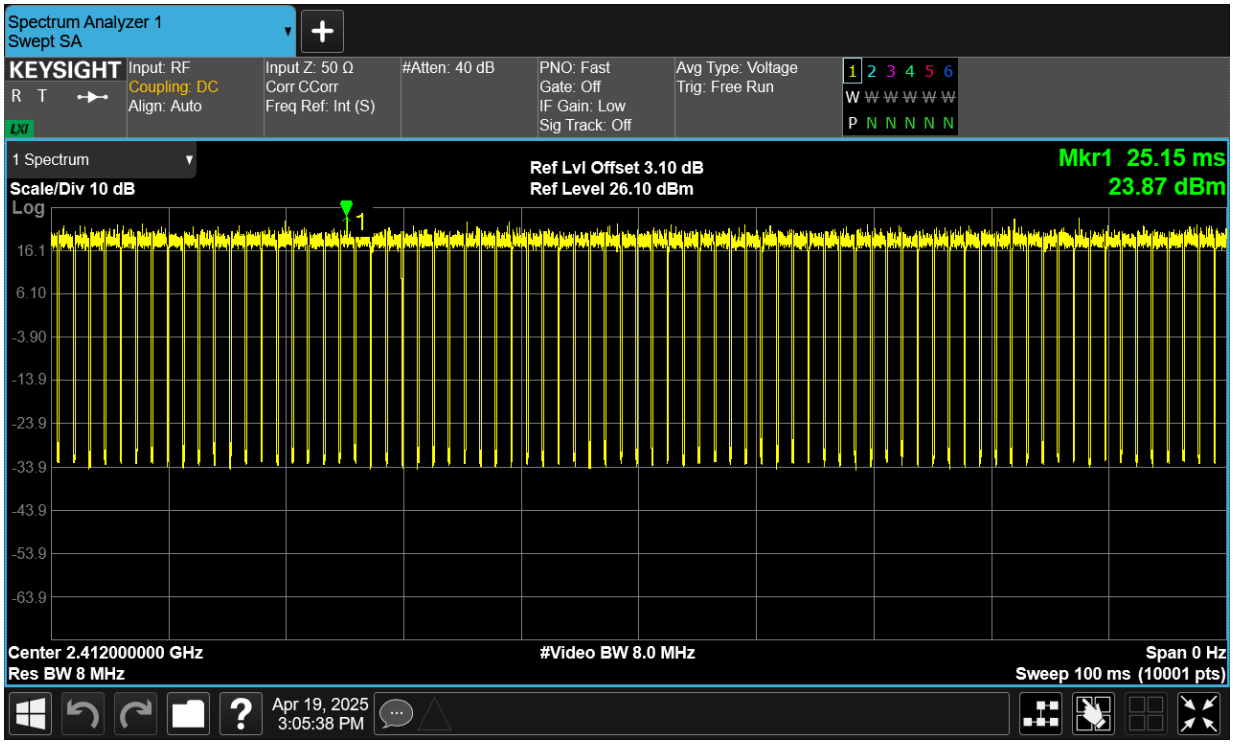
Duty Cycle NVNT g 2437MHz Ant12



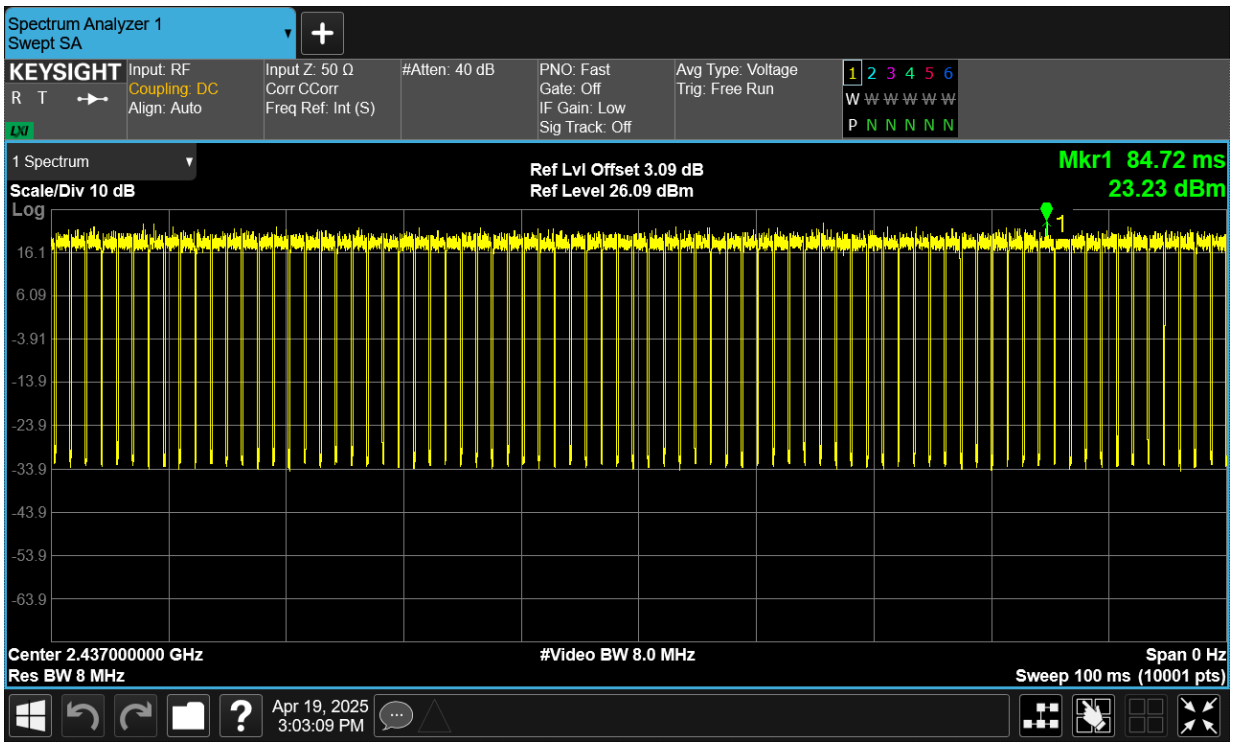
Duty Cycle NVNT g 2462MHz Ant12



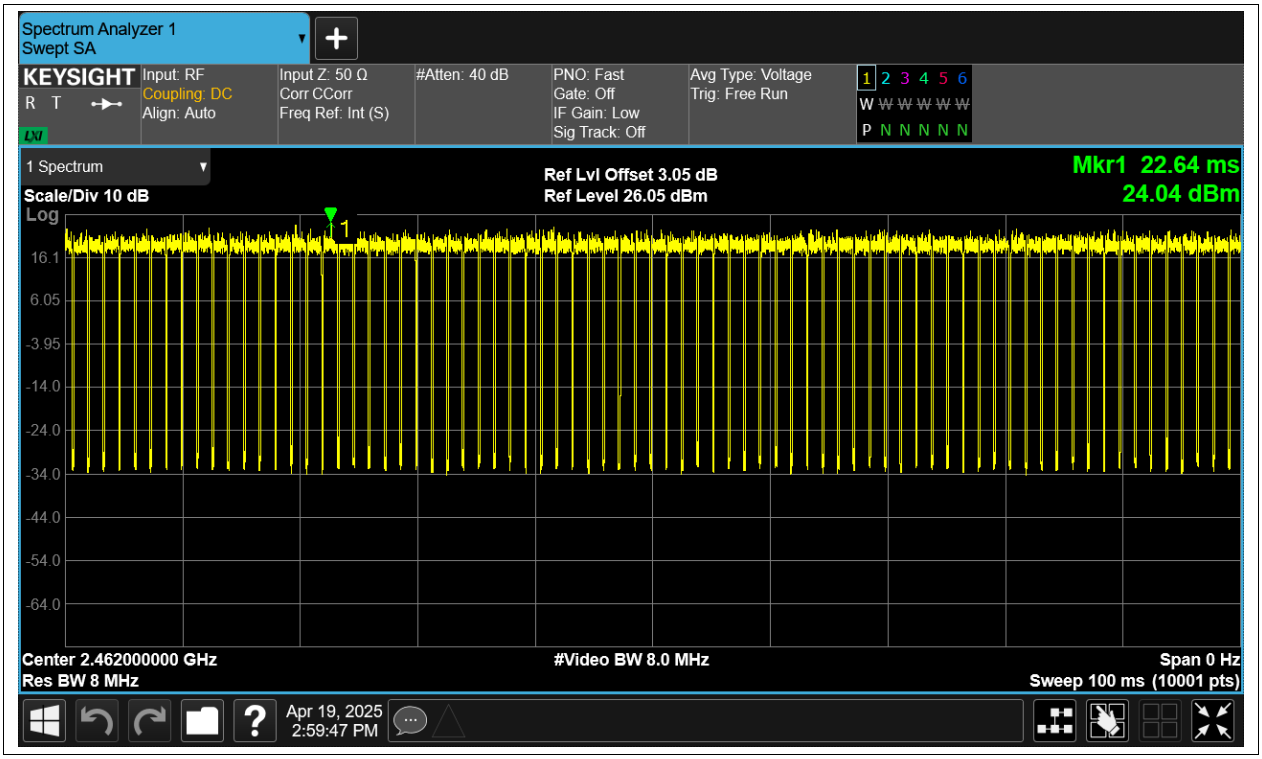
Duty Cycle NVNT n20 2412MHz Ant12



Duty Cycle NVNT n20 2437MHz Ant12



Duty Cycle NVNT n20 2462MHz Ant12


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 40 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Voltage
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 3.05 dB
Ref Level 26.05 dBm
Mkr1 22.64 ms
24.04 dBm
Log
16.1
6.05
-3.95
-14.0
-24.0
-34.0
-44.0
-54.0
-64.0
Center 2.462000000 GHz
Res BW 8 MHz
#Video BW 8.0 MHz
Span 0 Hz
Sweep 100 ms (10001 pts)
Apr 19, 2025
2:59:47 PM

Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant12	18.21	0	18.21	30	Pass
NVNT	b	2437	Ant12	18.19	0	18.19	30	Pass
NVNT	b	2462	Ant12	19.22	0	19.22	30	Pass
NVNT	g	2412	Ant12	15.64	0	15.64	30	Pass
NVNT	g	2437	Ant12	15.78	0	15.78	30	Pass
NVNT	g	2462	Ant12	16.7	0	16.7	30	Pass
NVNT	n20	2412	Ant12	14.94	0	14.94	30	Pass
NVNT	n20	2437	Ant12	15.08	0	15.08	30	Pass
NVNT	n20	2462	Ant12	15.73	0	15.73	30	Pass

-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	limit	Verdic
NVNT	b	2412	Ant12	9.537	0.5	Pass
NVNT	b	2437	Ant12	10.051	0.5	Pass
NVNT	b	2462	Ant12	9.049	0.5	Pass
NVNT	g	2412	Ant12	16.336	0.5	Pass
NVNT	g	2437	Ant12	16.309	0.5	Pass
NVNT	g	2462	Ant12	16.092	0.5	Pass
NVNT	n20	2412	Ant12	17.233	0.5	Pass
NVNT	n20	2437	Ant12	17.092	0.5	Pass
NVNT	n20	2462	Ant12	16.853	0.5	Pass

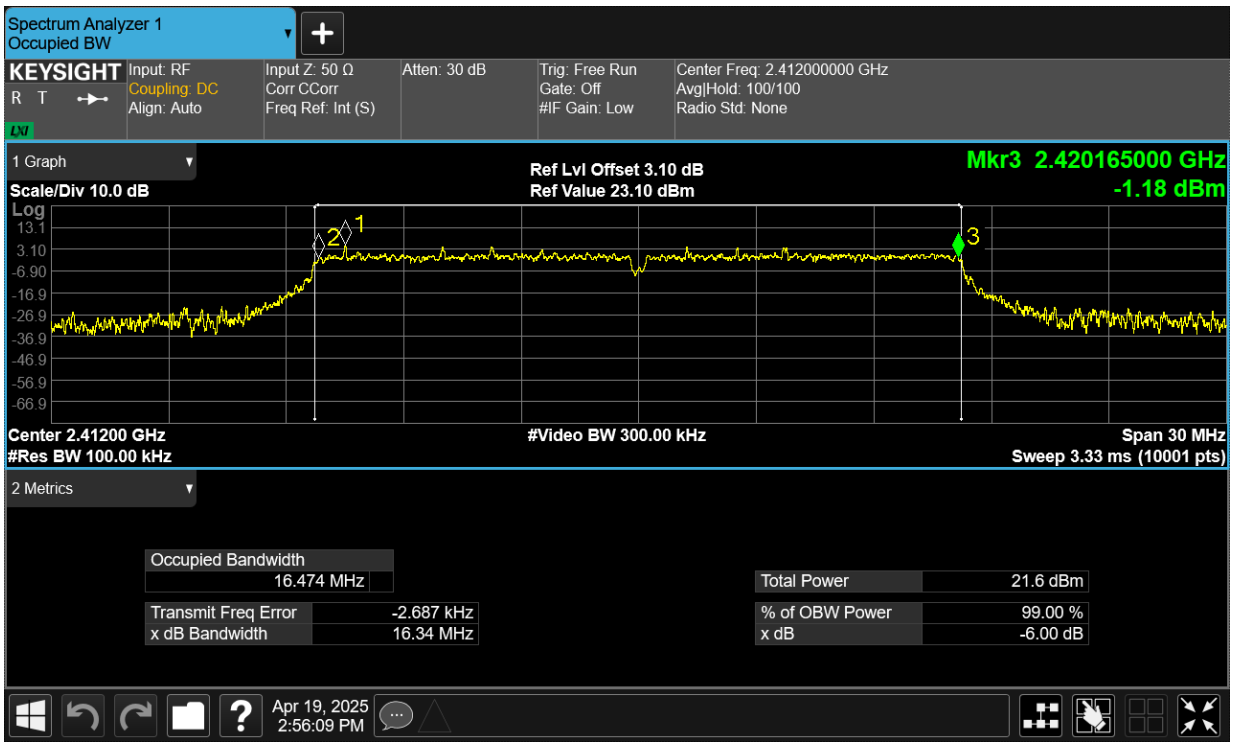
Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant12

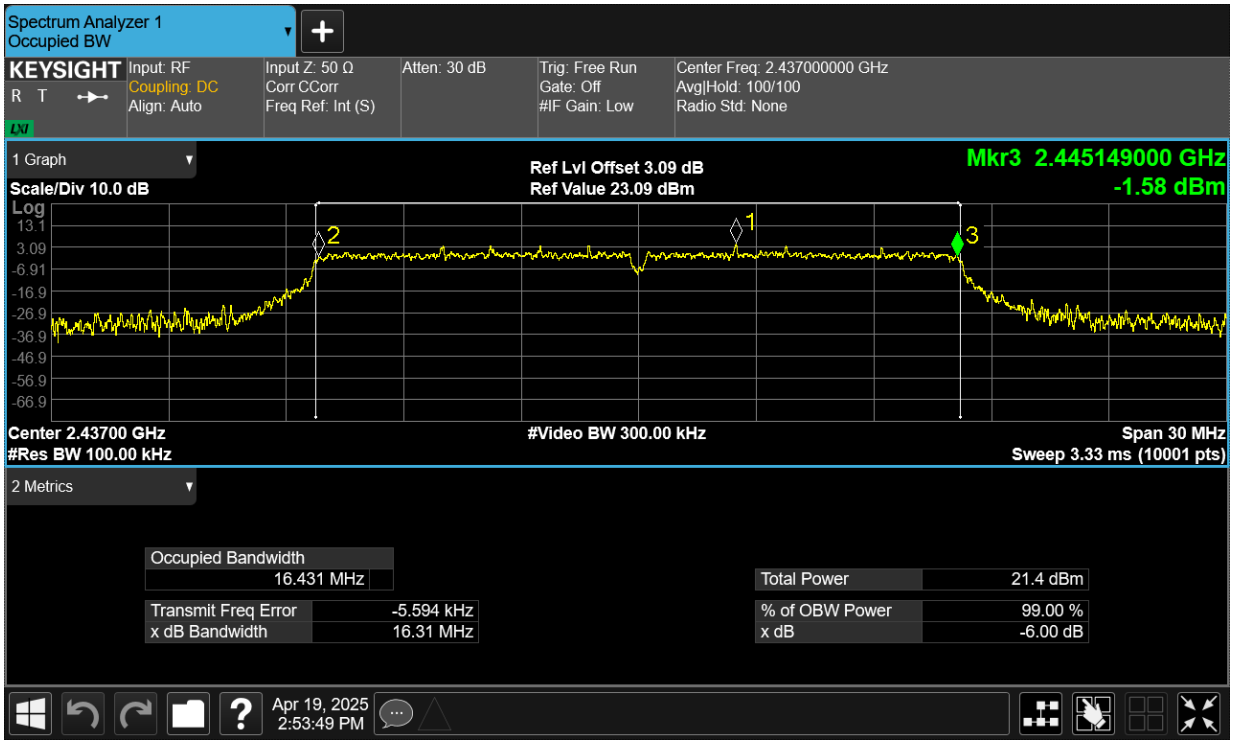
-6dB Bandwidth NVNT b 2437MHz Ant12

-6dB Bandwidth NVNT b 2462MHz Ant12

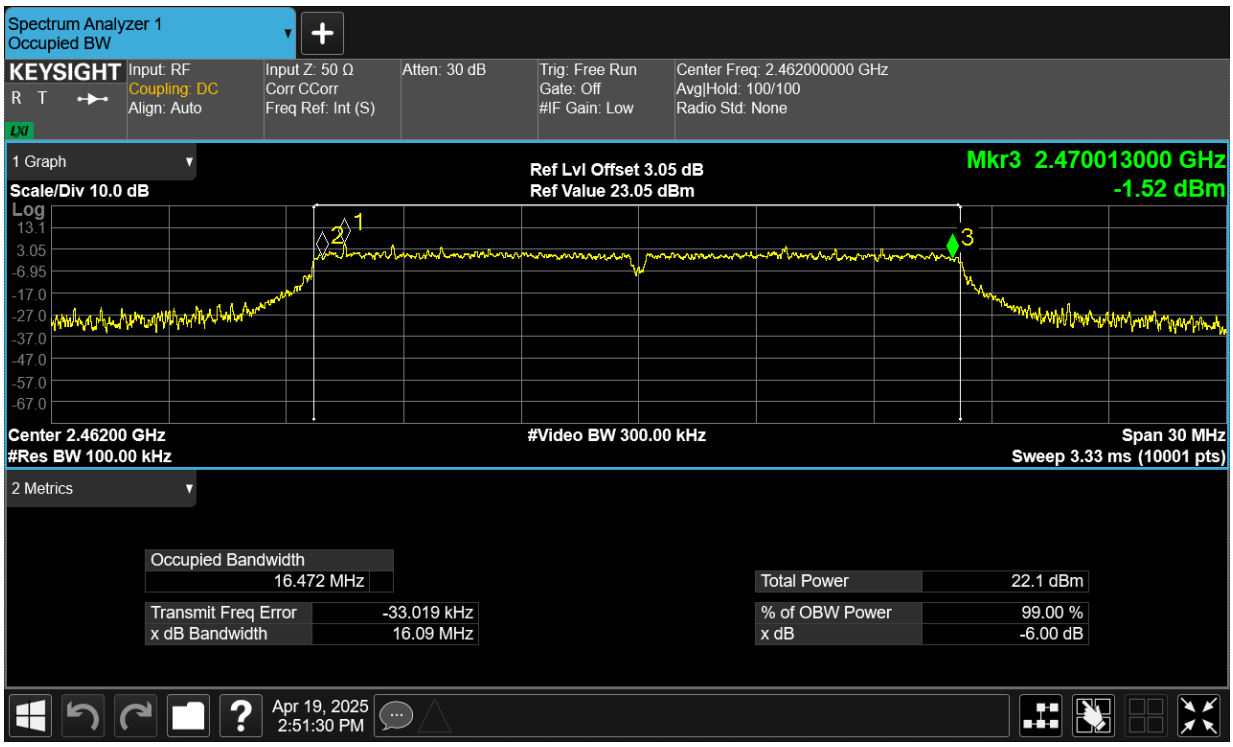
-6dB Bandwidth NVNT g 2412MHz Ant12



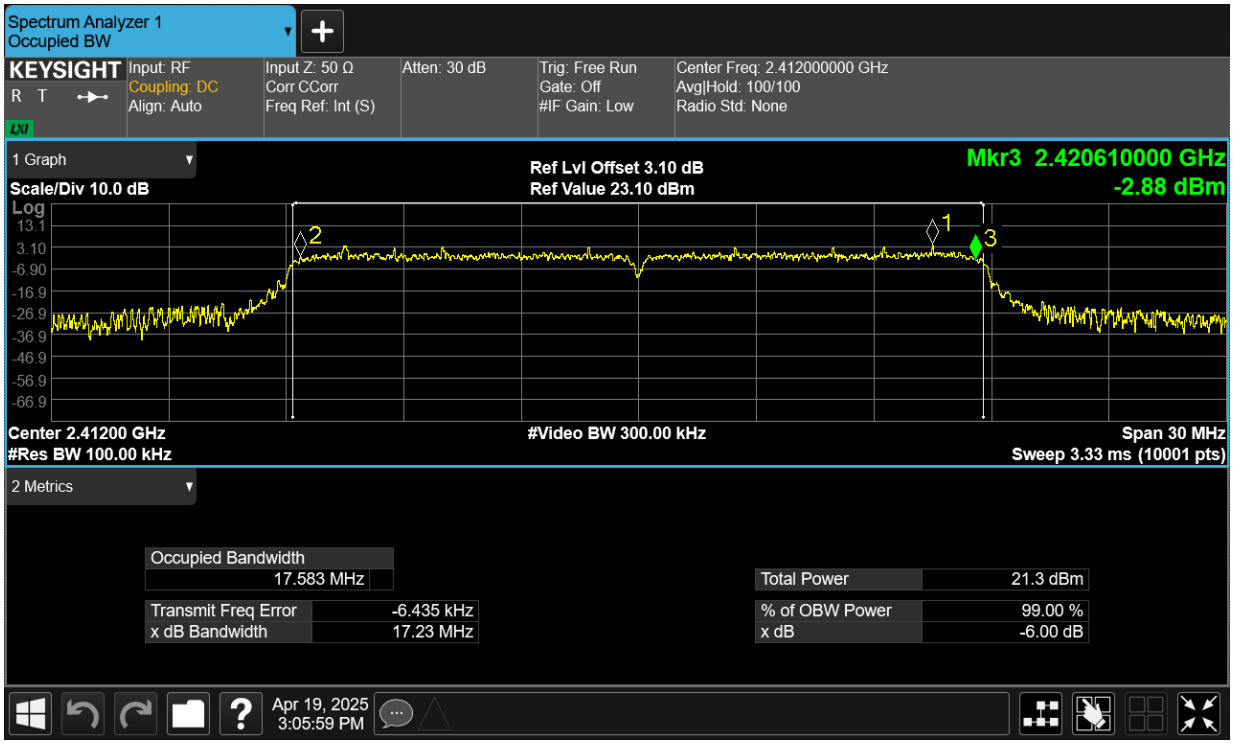
-6dB Bandwidth NVNT g 2437MHz Ant12



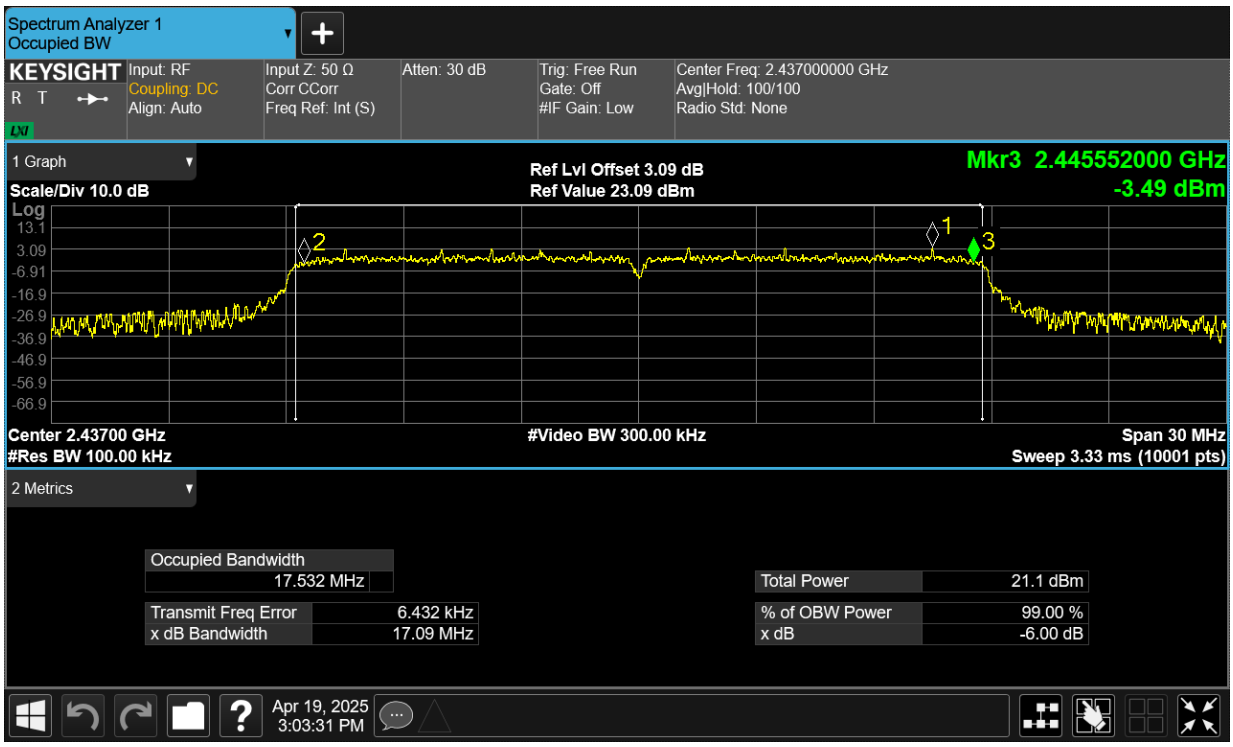
-6dB Bandwidth NVNT g 2462MHz Ant12



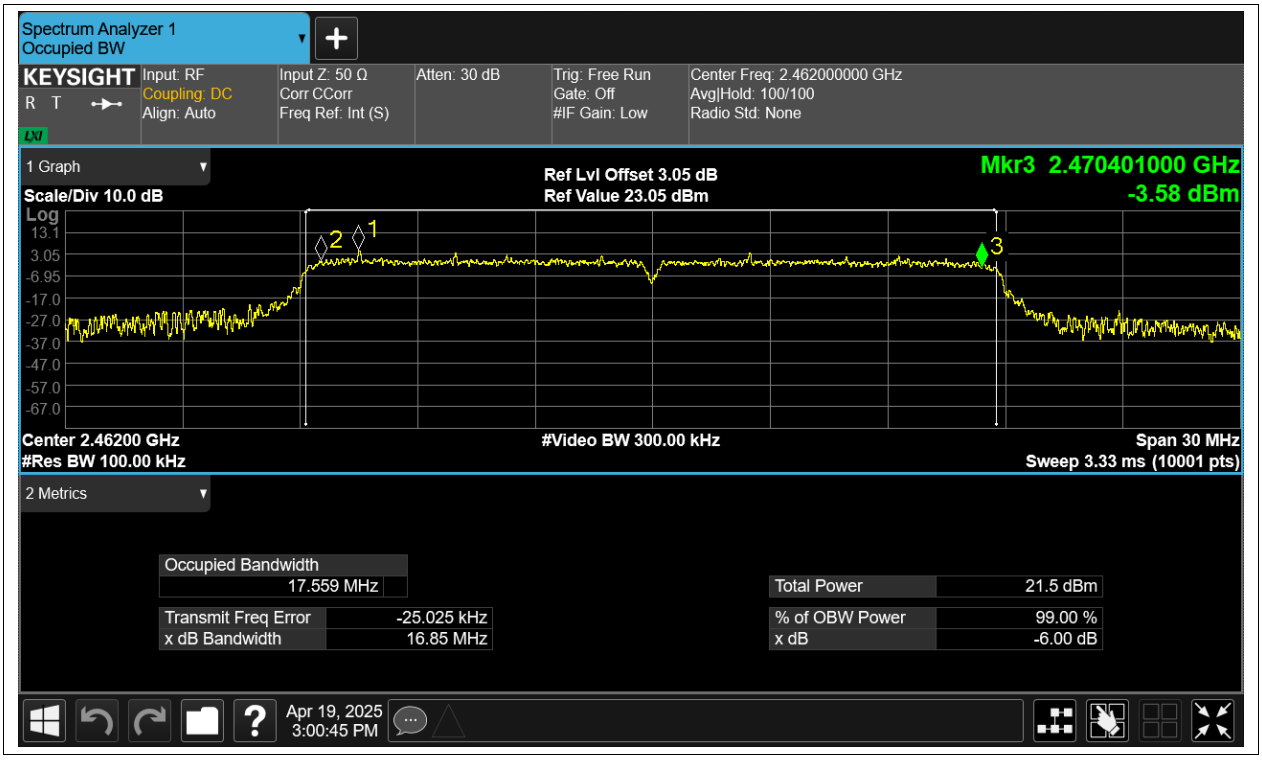
-6dB Bandwidth NVNT n20 2412MHz Ant12



-6dB Bandwidth NVNT n20 2437MHz Ant12



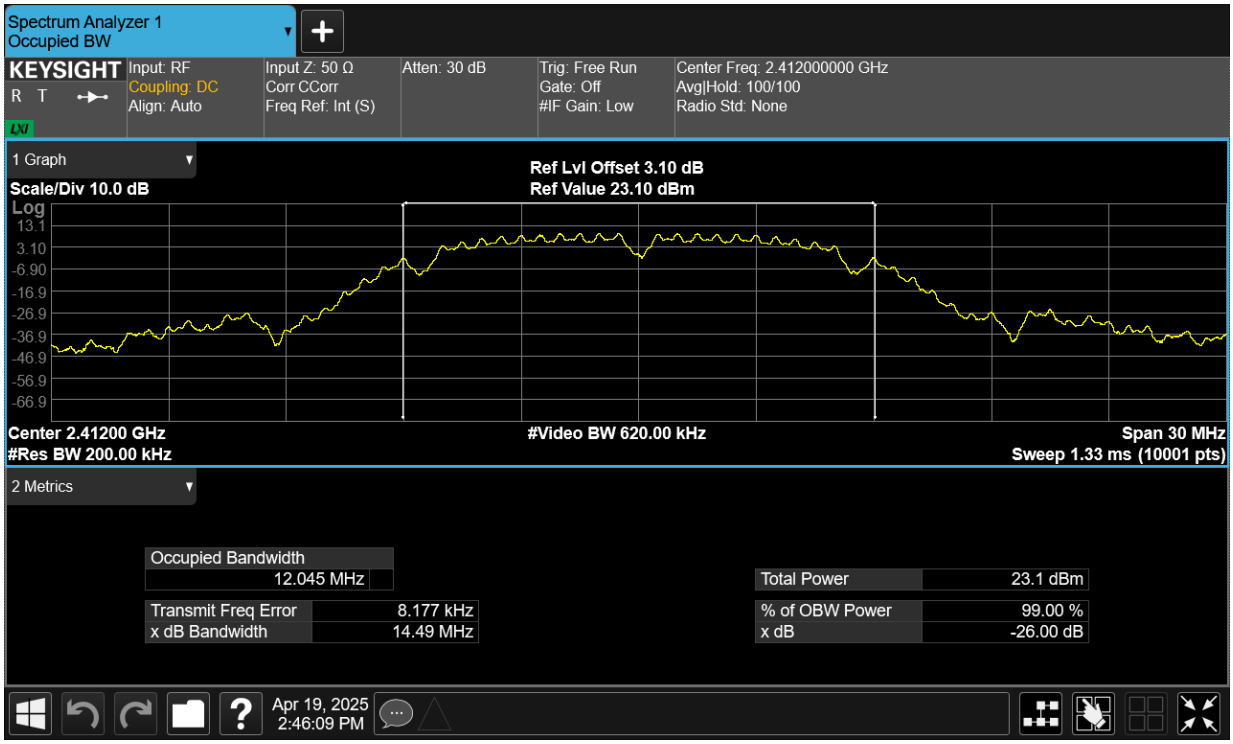
-6dB Bandwidth NVNT n20 2462MHz Ant12


Spectrum Analyzer 1
Occupied BW
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
Atten: 30 dB
Trig: Free Run
Gate: Off
#IF Gain: Low
Center Freq: 2.462000000 GHz
Avg|Hold: 100/100
Radio Std: None
1 Graph
Ref Lvl Offset 3.05 dB
Ref Value 23.05 dBm
Mkr3 2.470401000 GHz
-3.58 dBm
Scale/Div 10.0 dB
Log
13.1
3.05
-6.95
-17.0
-27.0
-37.0
-47.0
-57.0
-67.0
Center 2.46200 GHz
#Res BW 100.00 kHz
#Video BW 300.00 kHz
Span 30 MHz
Sweep 3.33 ms (10001 pts)
2 Metrics
Occupied Bandwidth
17.559 MHz
Transmit Freq Error
-25.025 kHz
x dB Bandwidth
16.85 MHz
Total Power
21.5 dBm
% of OBW Power
99.00 %
x dB
-6.00 dB
Apr 19, 2025
3:00:45 PM

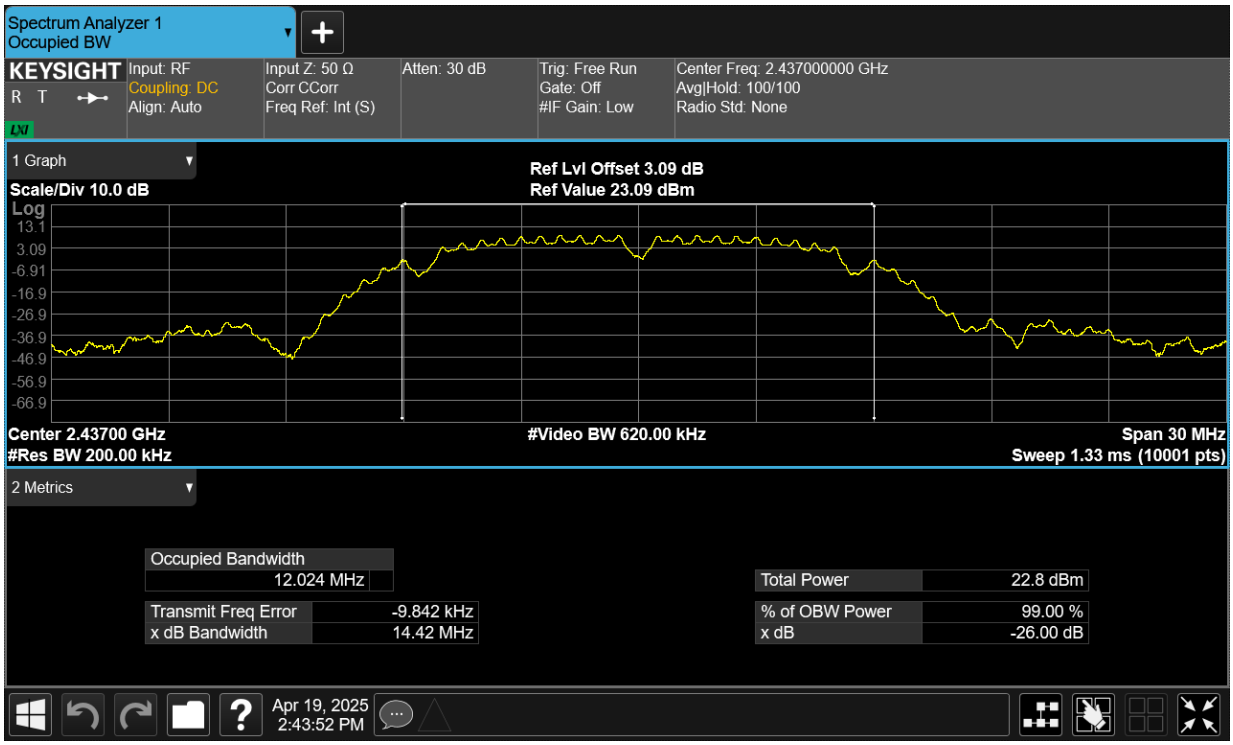
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant12	12.045
NVNT	b	2437	Ant12	12.024
NVNT	b	2462	Ant12	12.071
NVNT	g	2412	Ant12	16.552
NVNT	g	2437	Ant12	16.509
NVNT	g	2462	Ant12	16.559
NVNT	n20	2412	Ant12	17.63
NVNT	n20	2437	Ant12	17.606
NVNT	n20	2462	Ant12	17.622

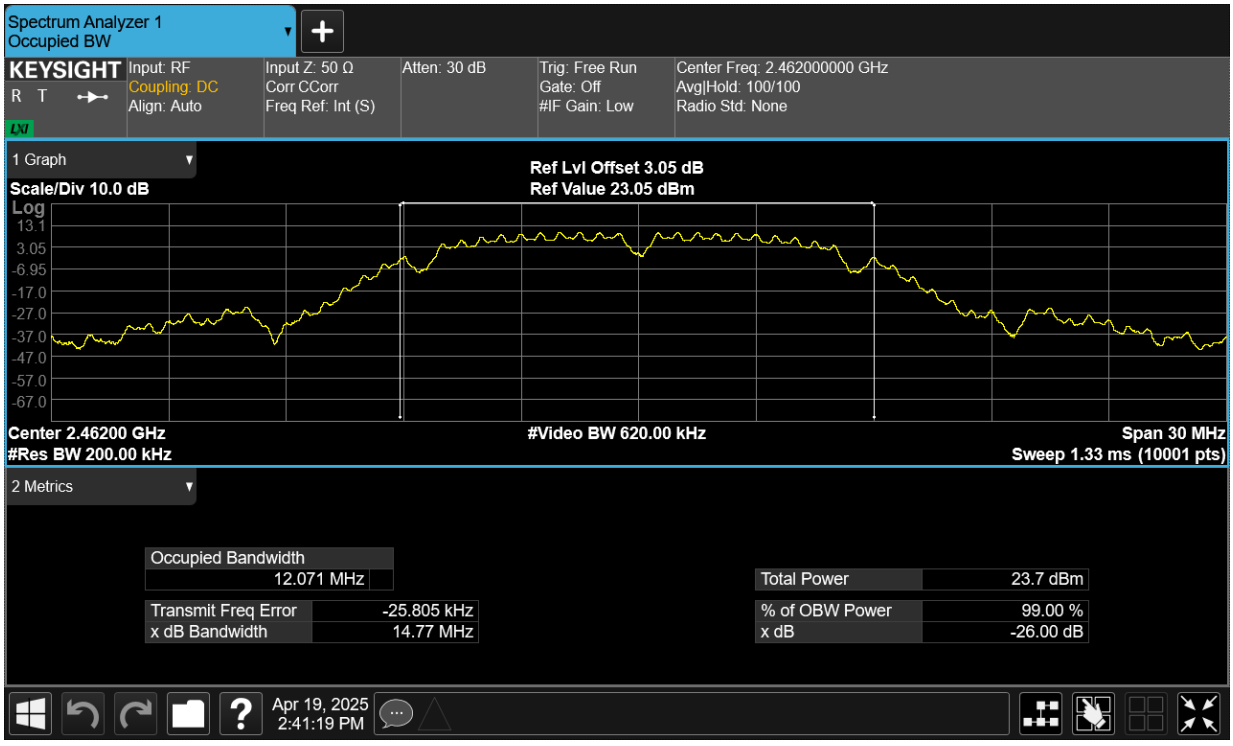
Test Graphs
OBW NVNT b 2412MHz Ant12



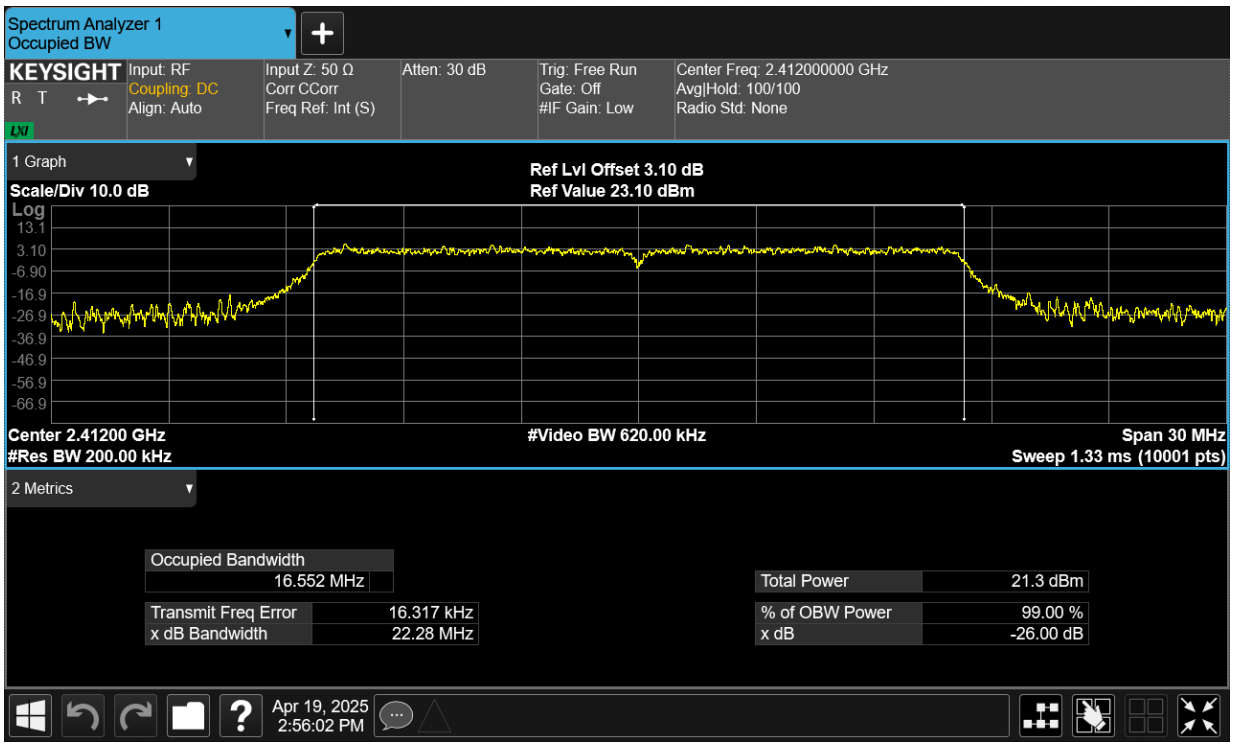
OBW NVNT b 2437MHz Ant12



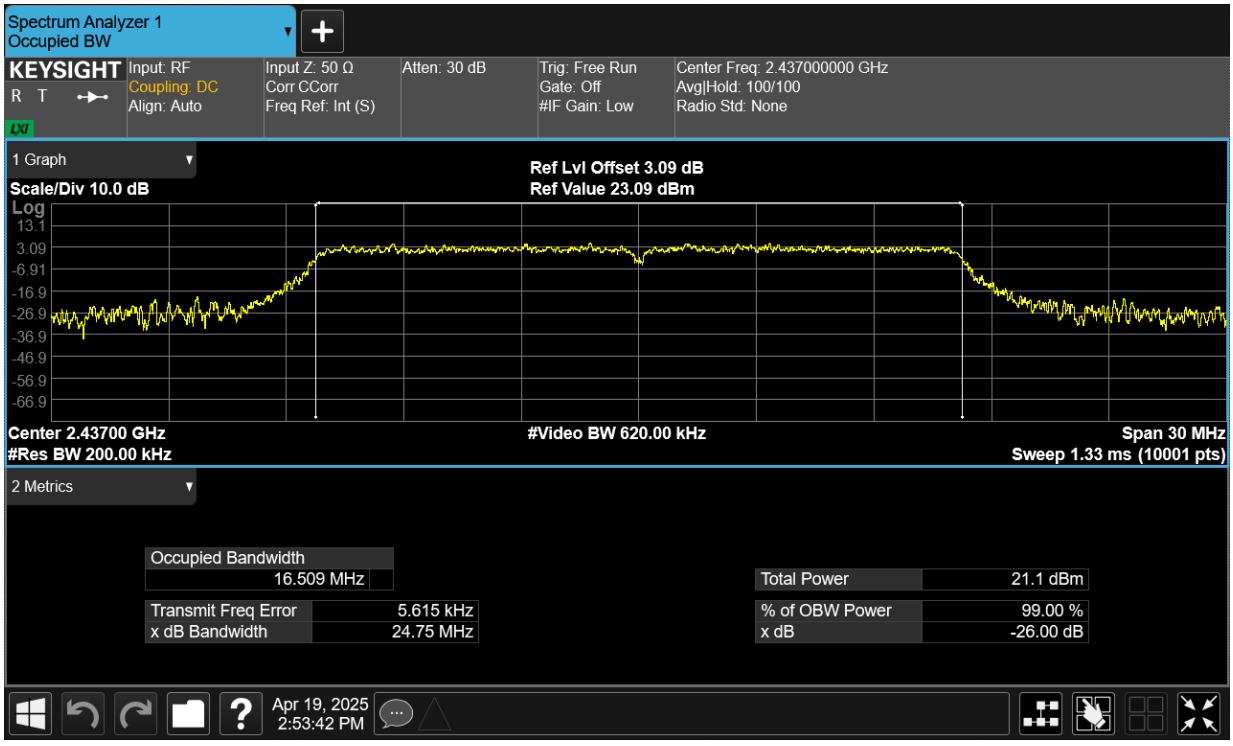
OBW NVNT b 2462MHz Ant12



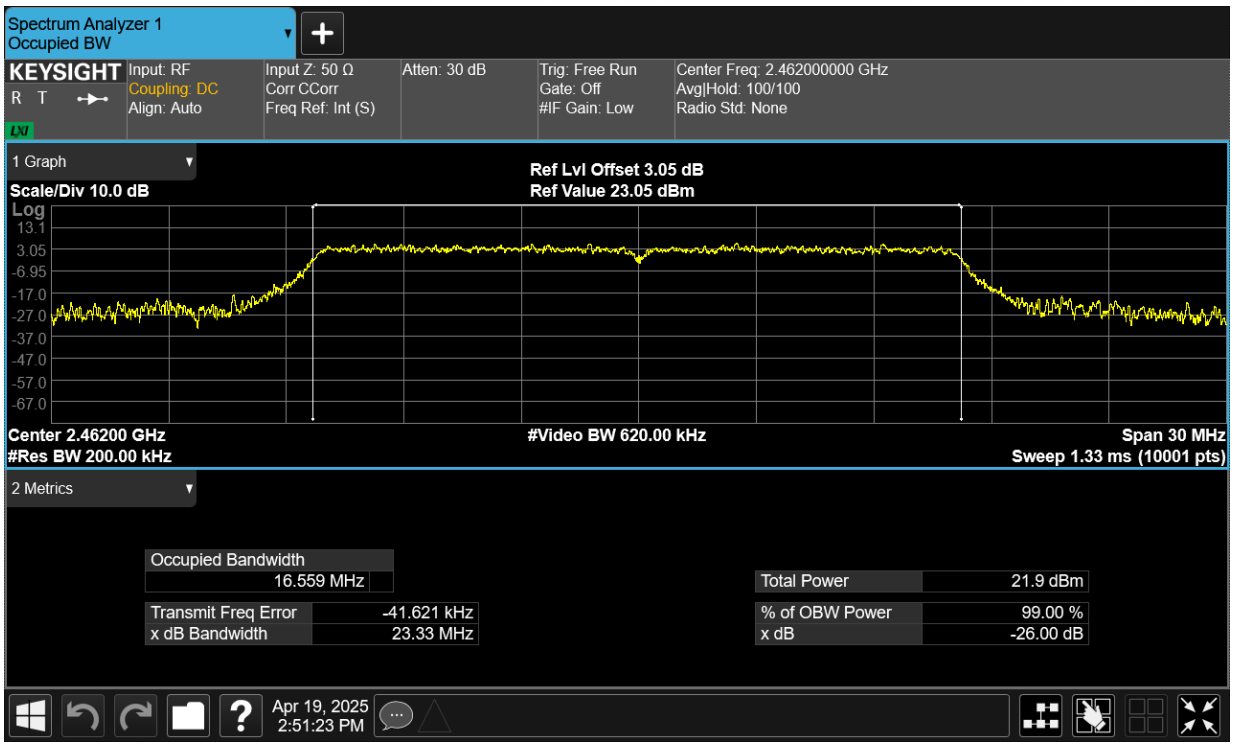
OBW NVNT g 2412MHz Ant12



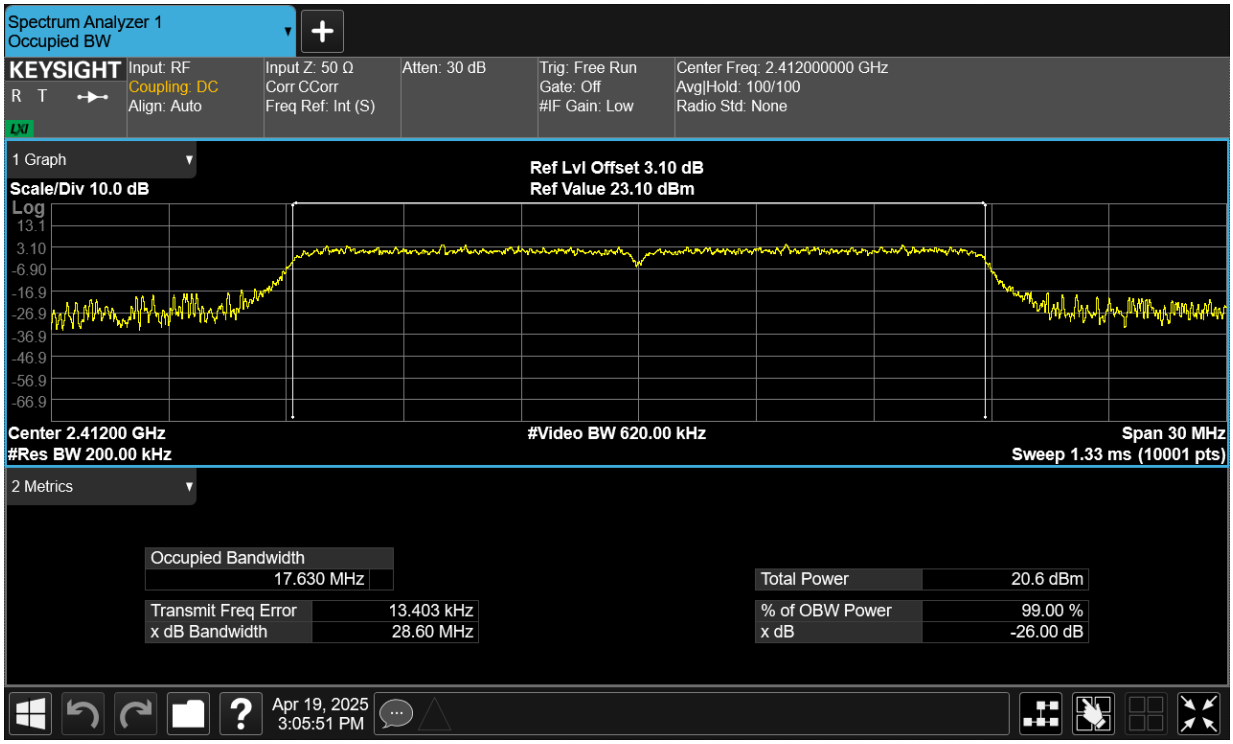
OBW NVNT g 2437MHz Ant12



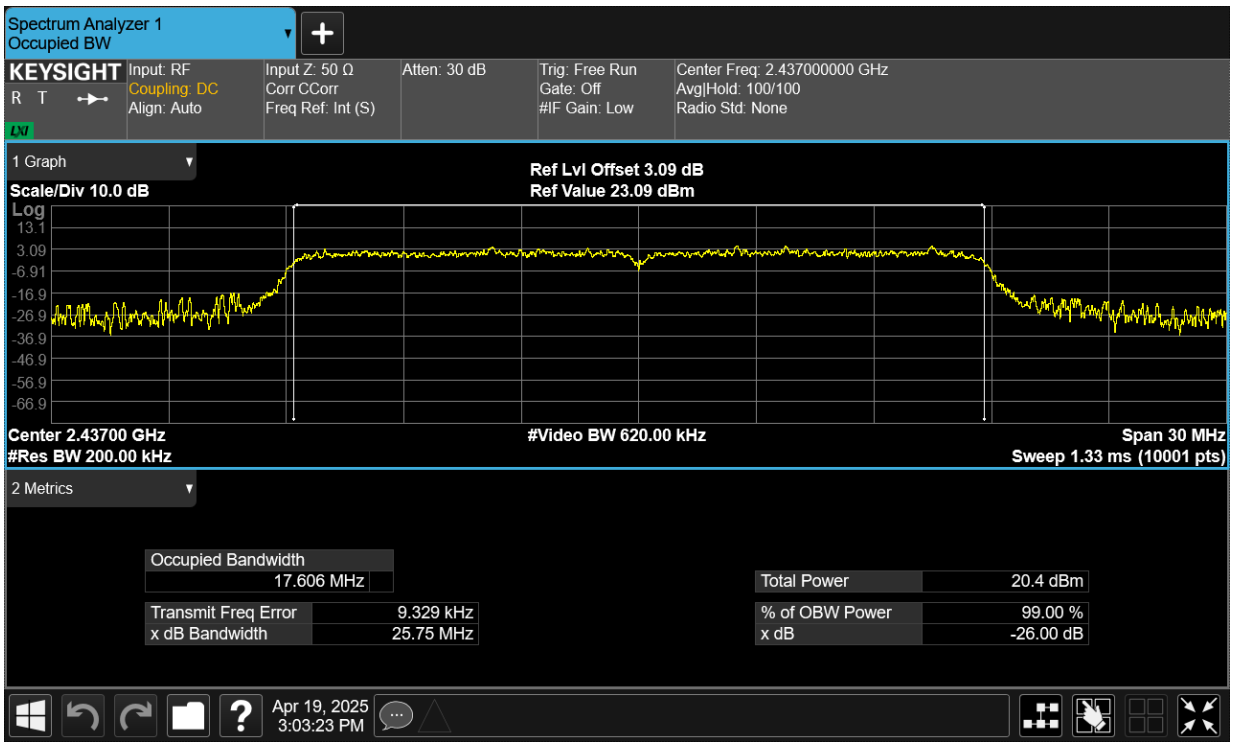
OBW NVNT g 2462MHz Ant12



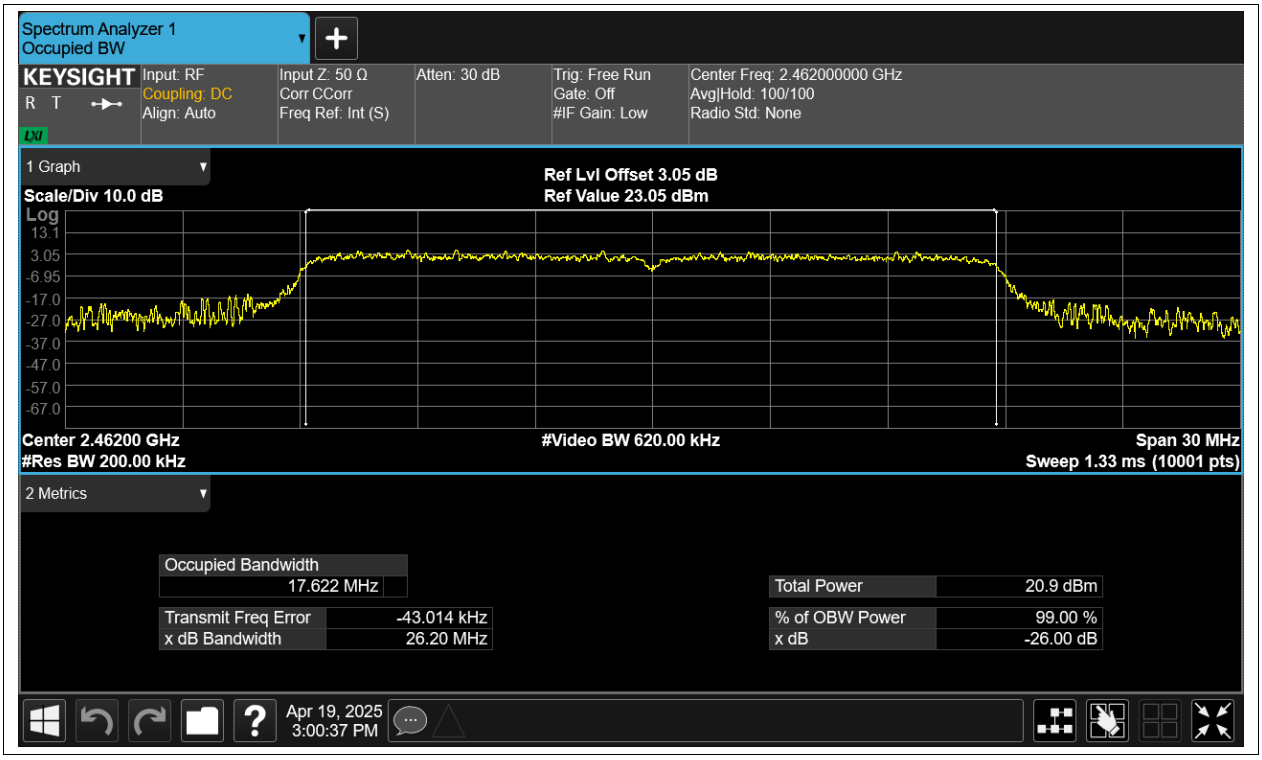
OBW NVNT n20 2412MHz Ant12



OBW NVNT n20 2437MHz Ant12



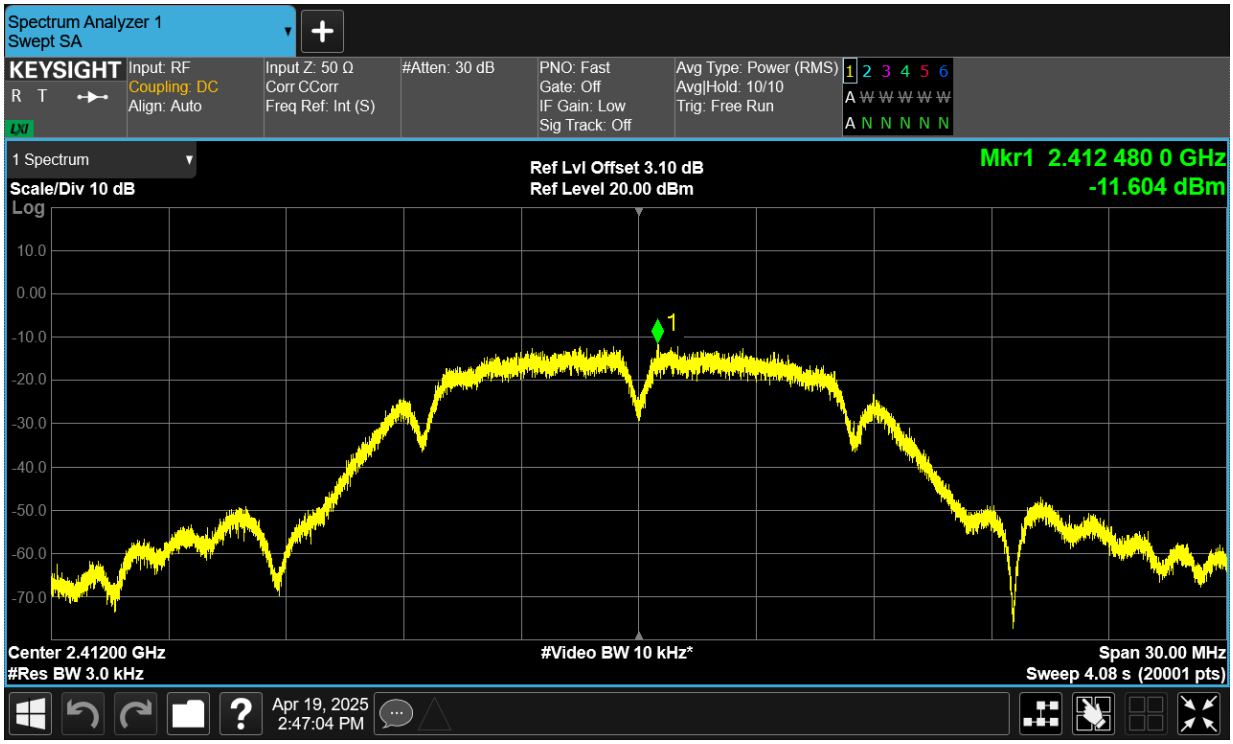
OBW NVNT n20 2462MHz Ant12


Spectrum Analyzer 1
Occupied BW
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
Atten: 30 dB
Trig: Free Run
Gate: Off
#IF Gain: Low
Center Freq: 2.462000000 GHz
Avg|Hold: 100/100
Radio Std: None
1 Graph
Ref Lvl Offset 3.05 dB
Ref Value 23.05 dBm
Scale/Div 10.0 dB
Log
13.1
3.05
-6.95
-17.0
-27.0
-37.0
-47.0
-57.0
-67.0
Center 2.46200 GHz
#Res BW 200.00 kHz
#Video BW 620.00 kHz
Span 30 MHz
Sweep 1.33 ms (10001 pts)
2 Metrics
Occupied Bandwidth
17.622 MHz
Transmit Freq Error
-43.014 kHz
x dB Bandwidth
26.20 MHz
Total Power
20.9 dBm
% of OBW Power
99.00 %
x dB
-26.00 dB
Apr 19, 2025
3:00:37 PM

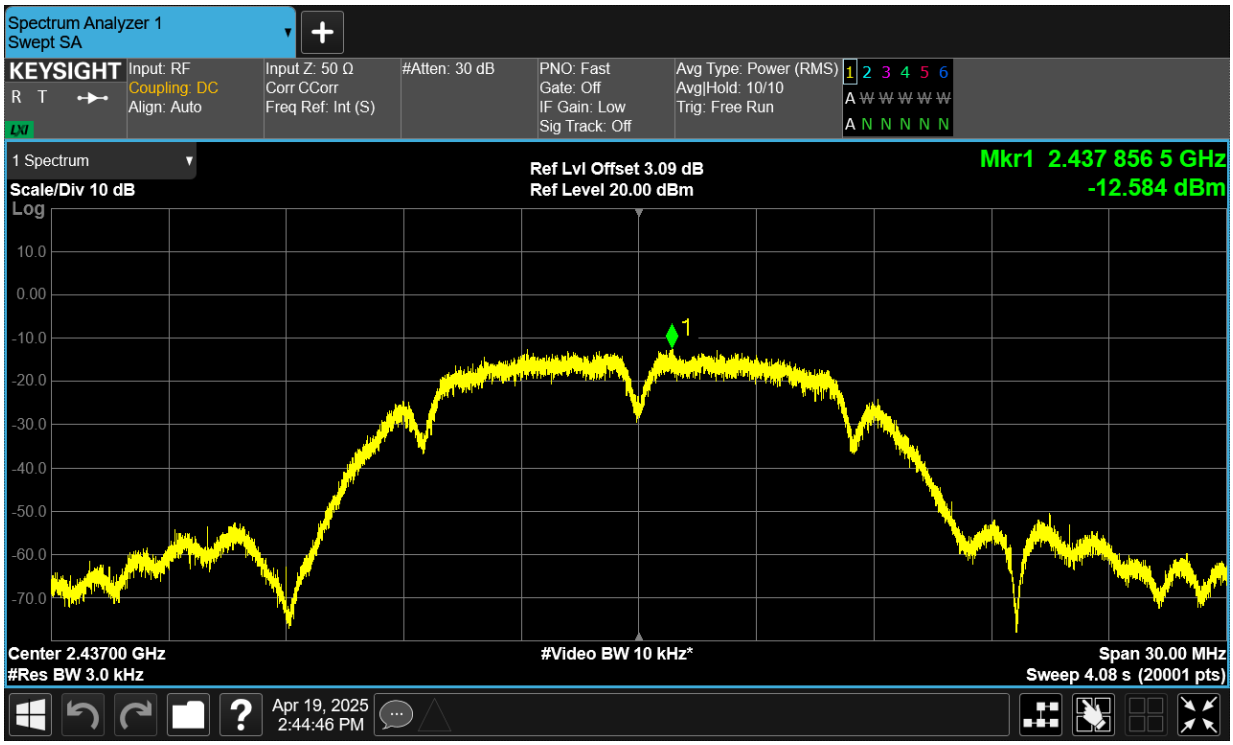
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant12	-11.604	8	Pass
NVNT	b	2437	Ant12	-12.584	8	Pass
NVNT	b	2462	Ant12	-10.827	8	Pass
NVNT	g	2412	Ant12	-17.357	8	Pass
NVNT	g	2437	Ant12	-16.995	8	Pass
NVNT	g	2462	Ant12	-15.984	8	Pass
NVNT	n20	2412	Ant12	-18.608	8	Pass
NVNT	n20	2437	Ant12	-17.728	8	Pass
NVNT	n20	2462	Ant12	-18.048	8	Pass

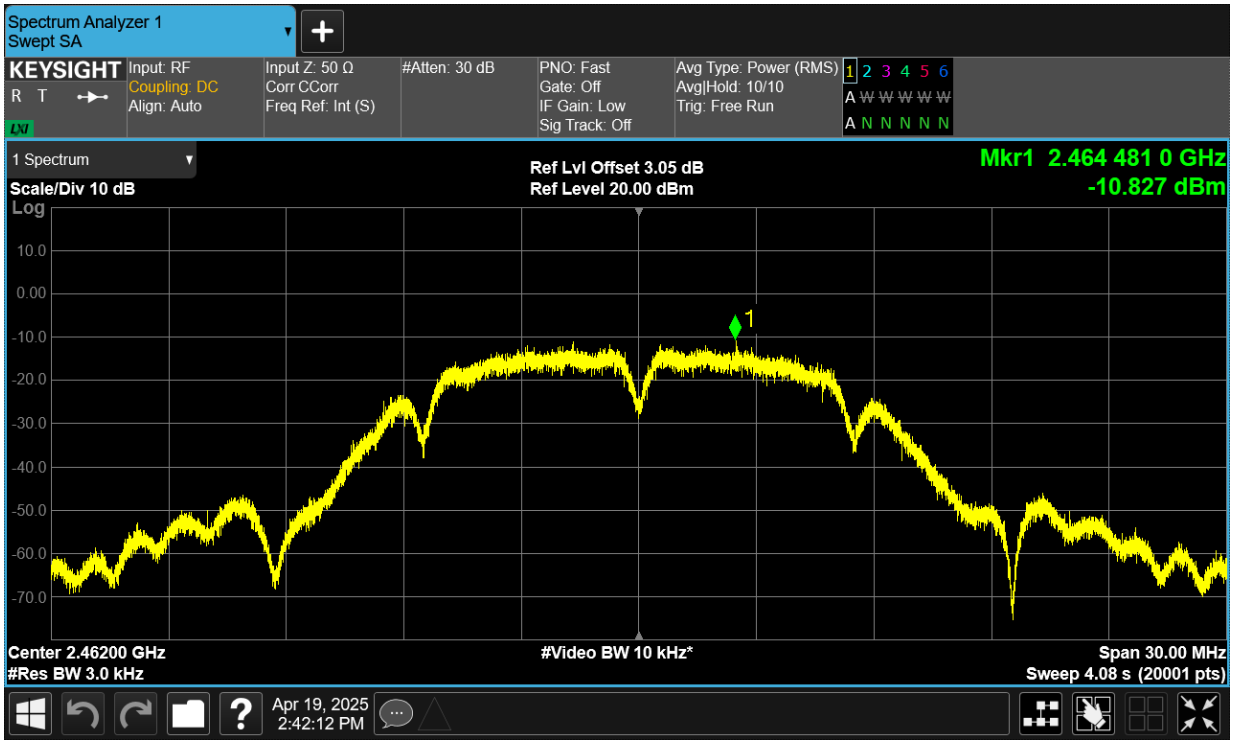
Test Graphs
PSD NVNT b 2412MHz Ant12



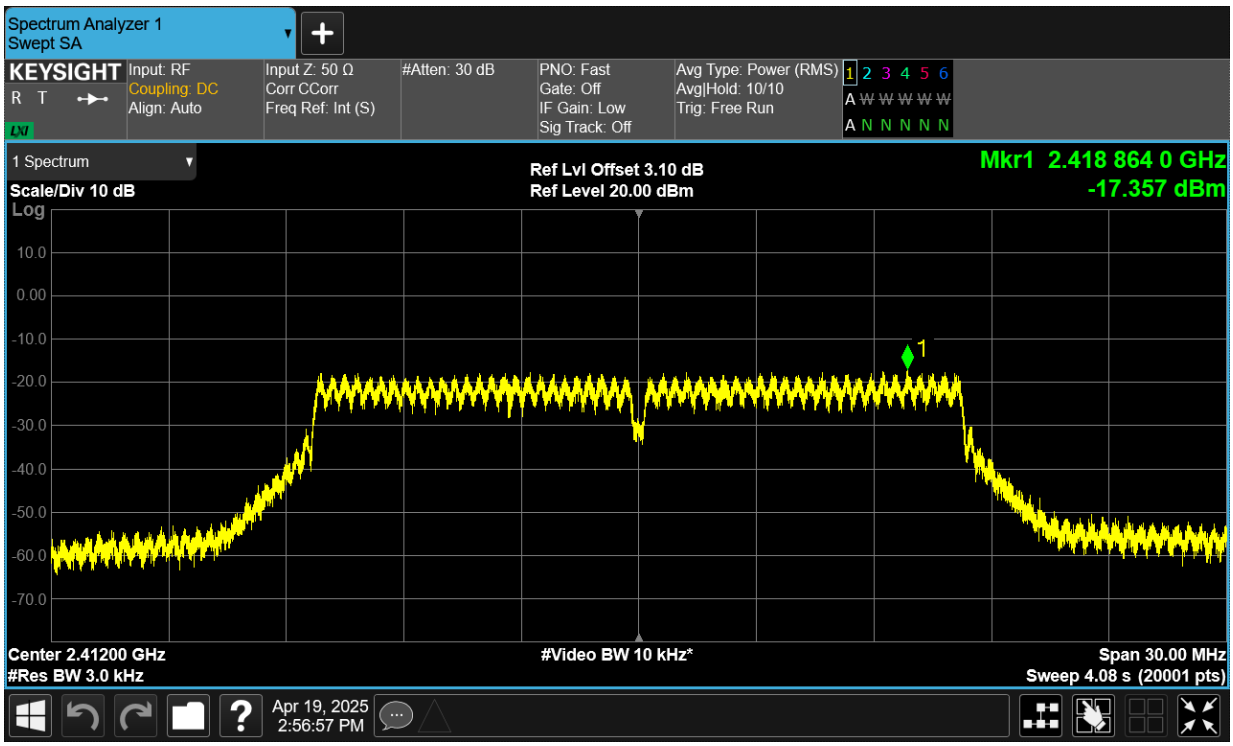
PSD NVNT b 2437MHz Ant12



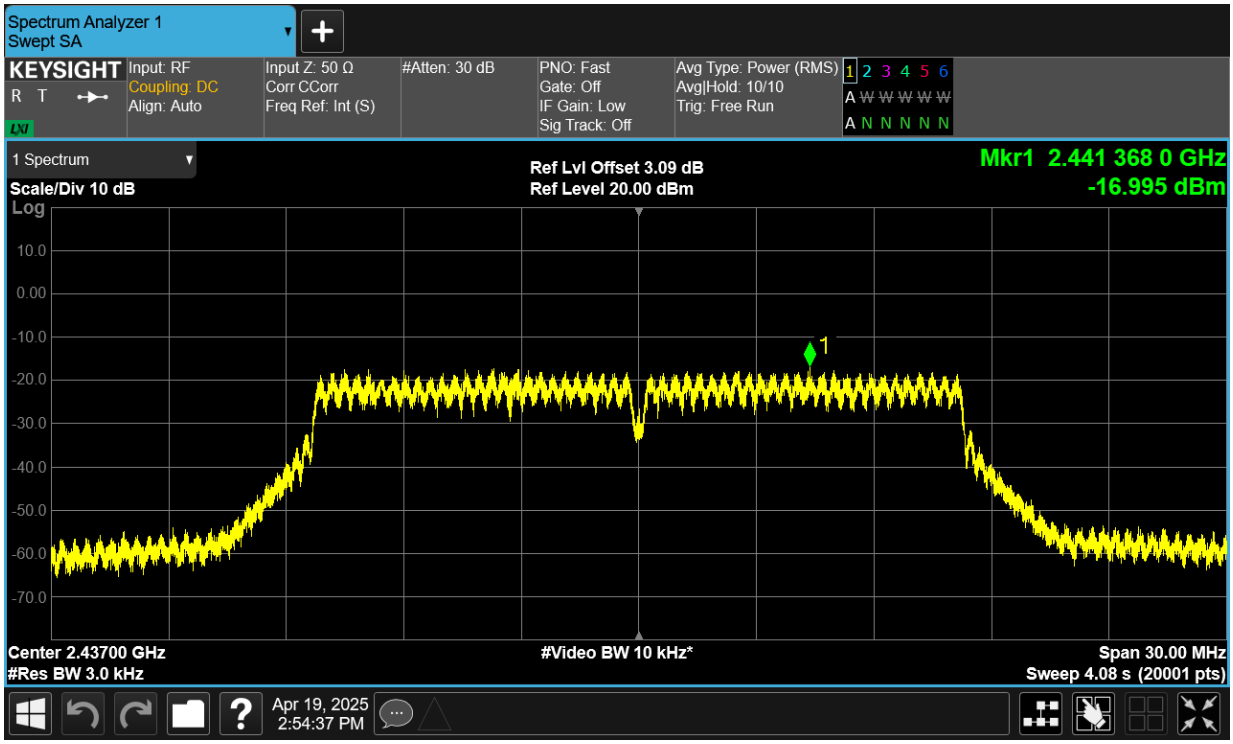
PSD NVNT b 2462MHz Ant12



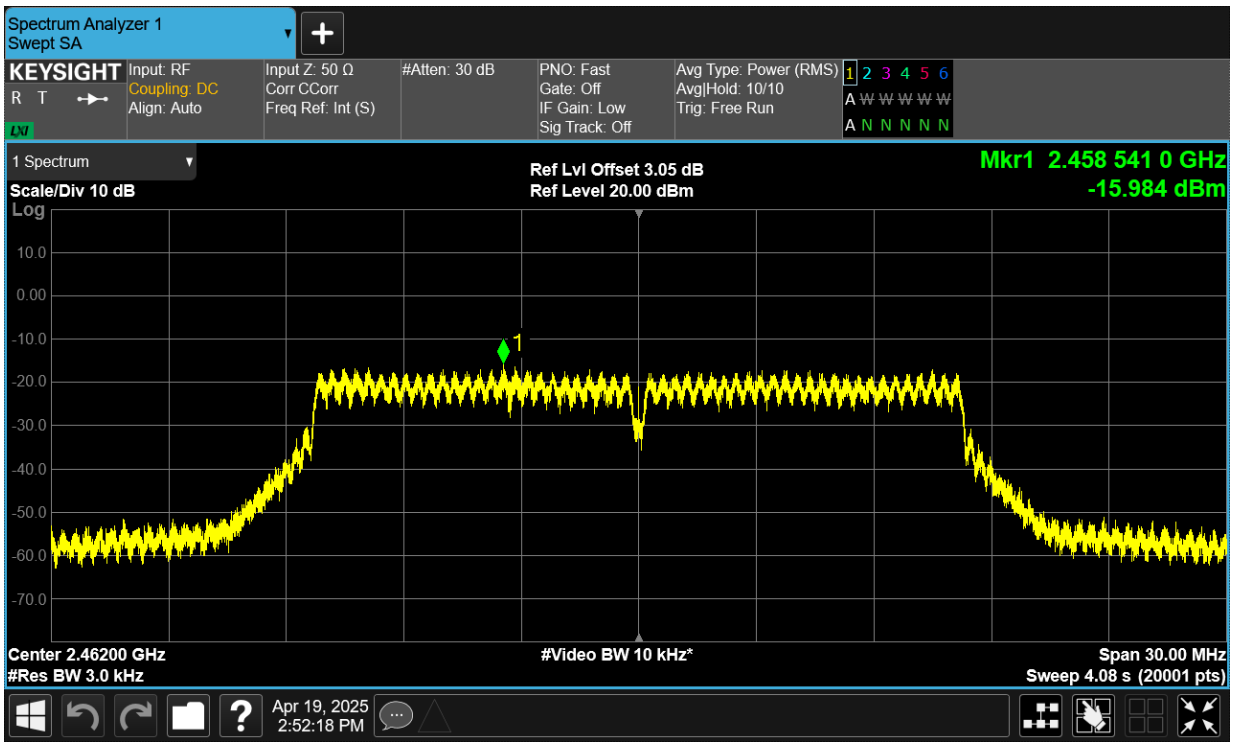
PSD NVNT g 2412MHz Ant12



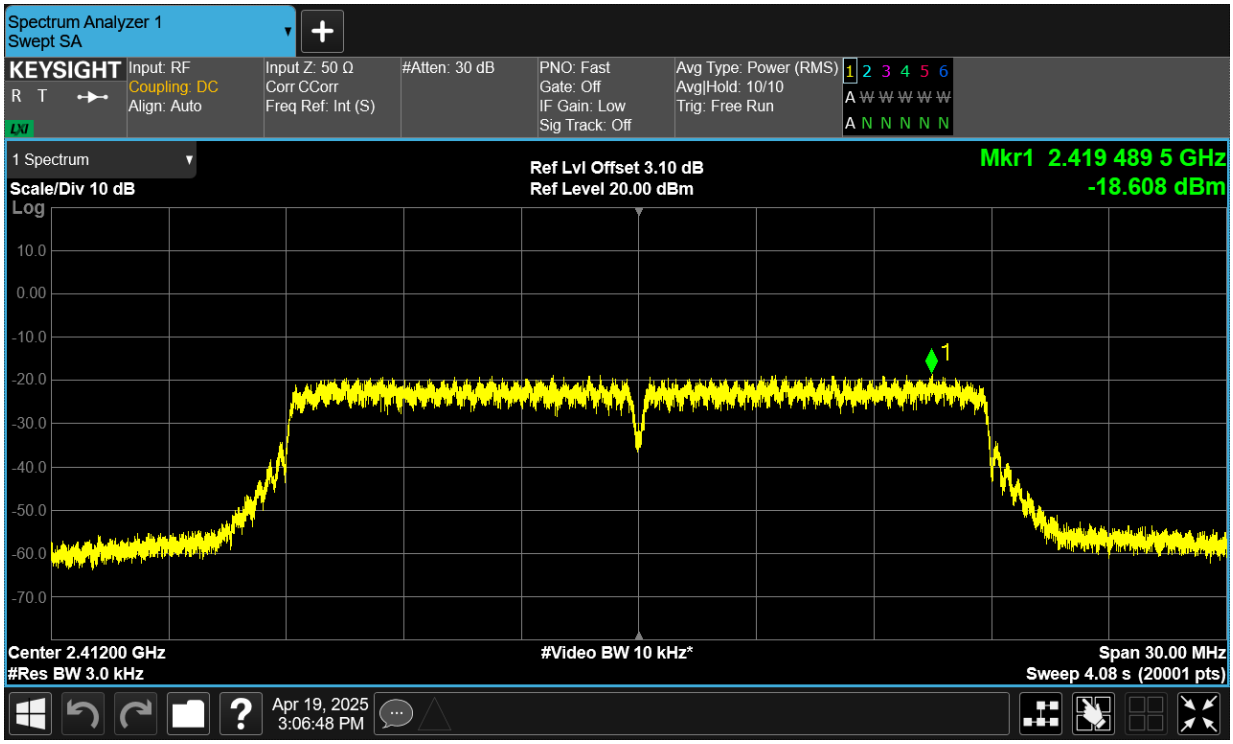
PSD NVNT g 2437MHz Ant12



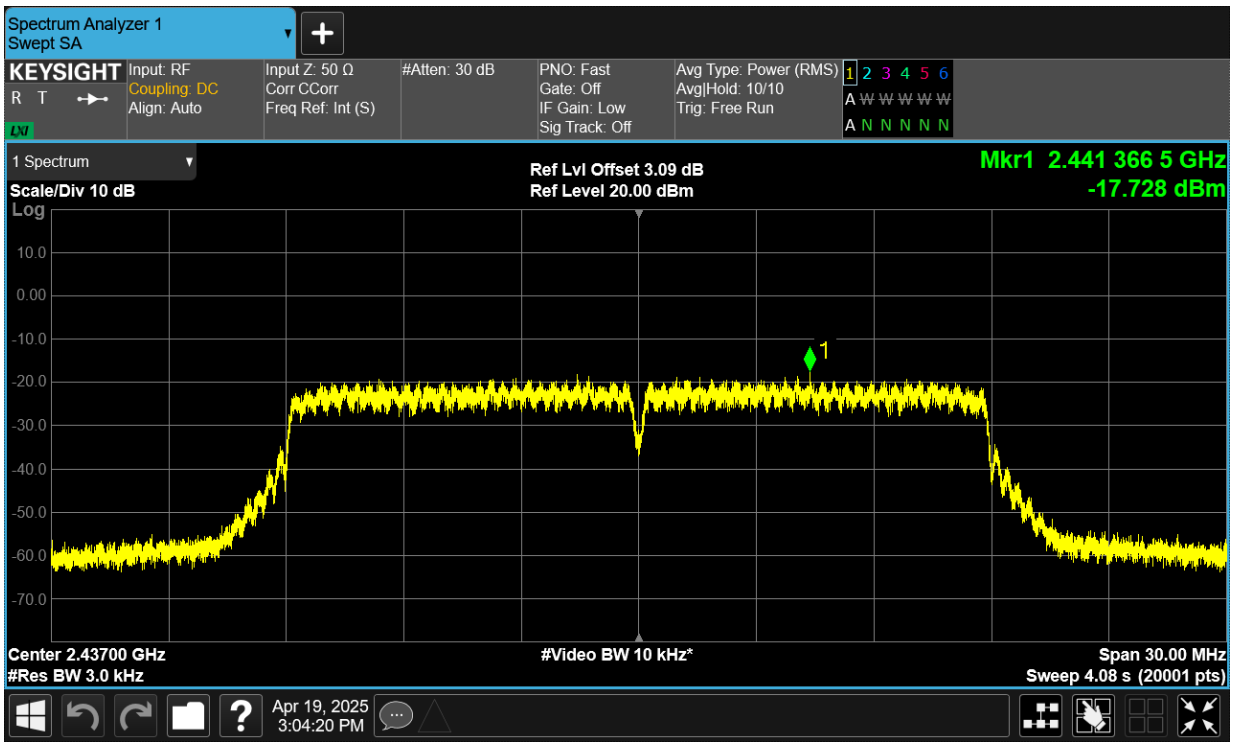
PSD NVNT g 2462MHz Ant12



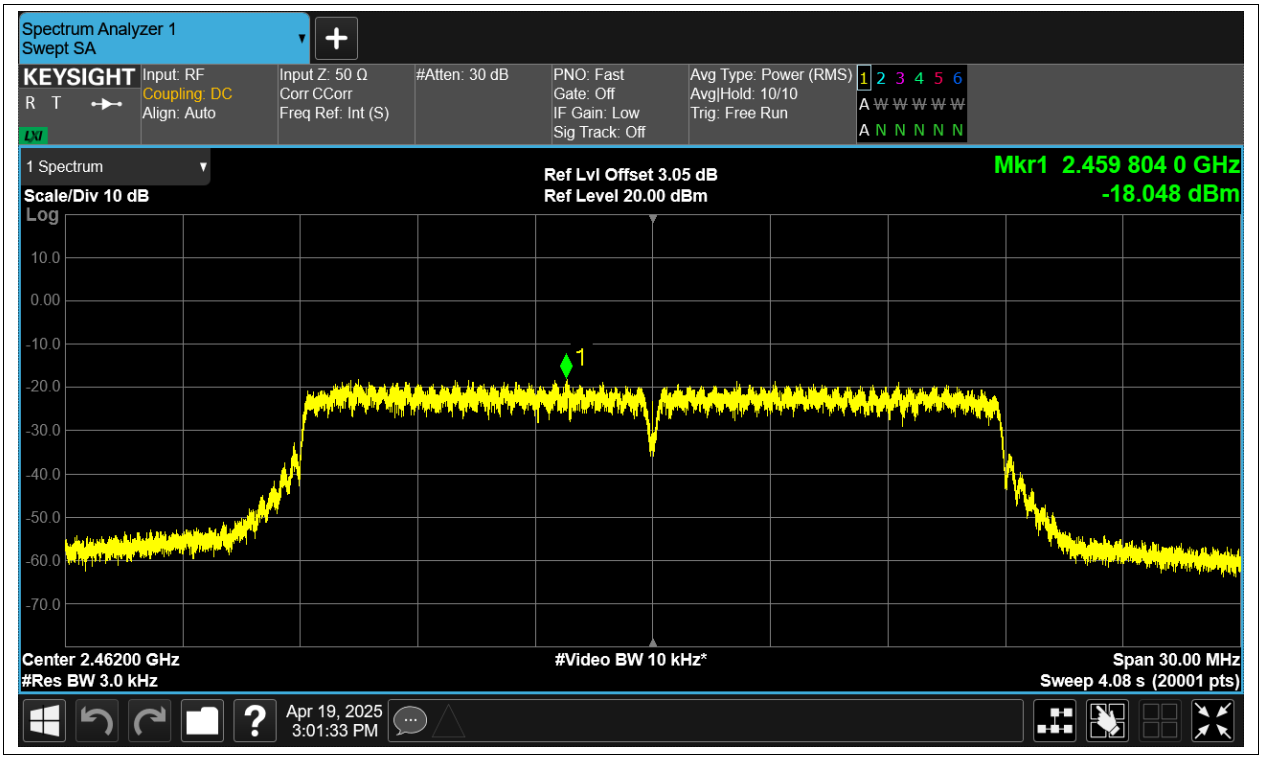
PSD NVNT n20 2412MHz Ant12



PSD NVNT n20 2437MHz Ant12



PSD NVNT n20 2462MHz Ant12

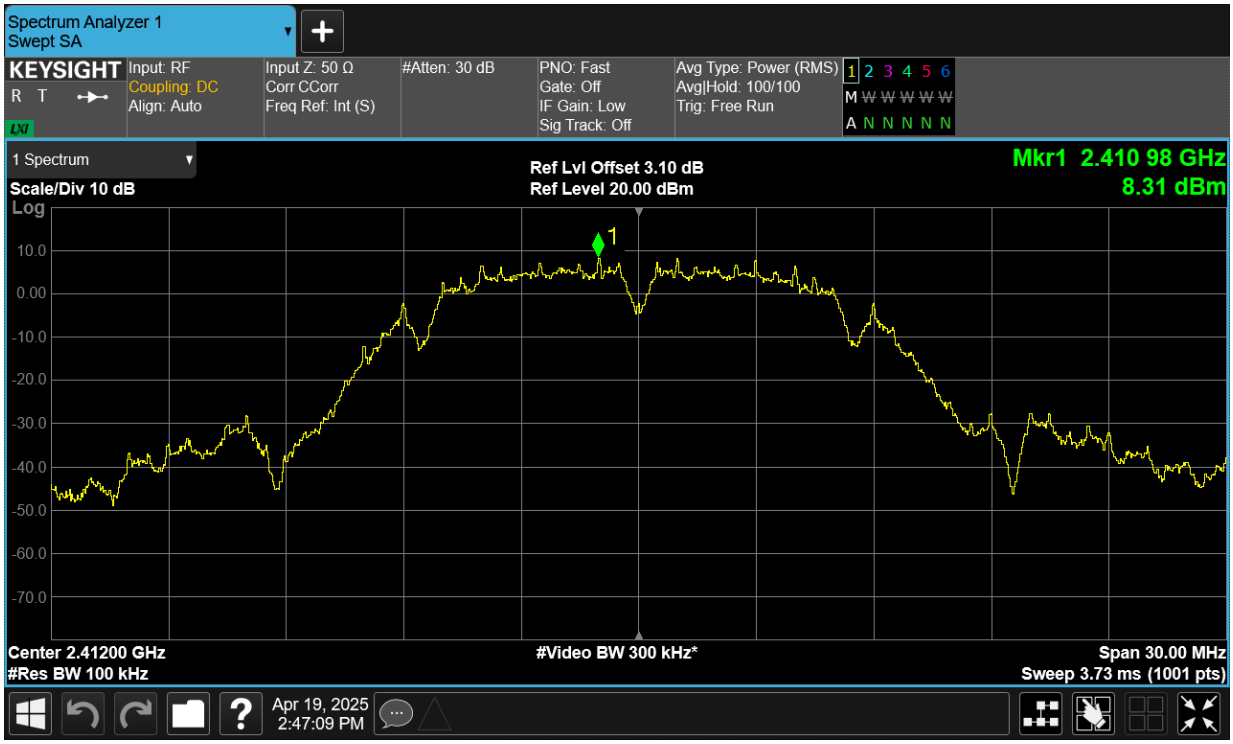

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 30 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Power (RMS)
Avg|Hold: 10/10
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 3.05 dB
Ref Level 20.00 dBm
Mkr1 2.459 804 0 GHz
-18.048 dBm
Log
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 2.46200 GHz
#Res BW 3.0 kHz
#Video BW 10 kHz*
Span 30.00 MHz
Sweep 4.08 s (20001 pts)
Apr 19, 2025
3:01:33 PM

Band Edge

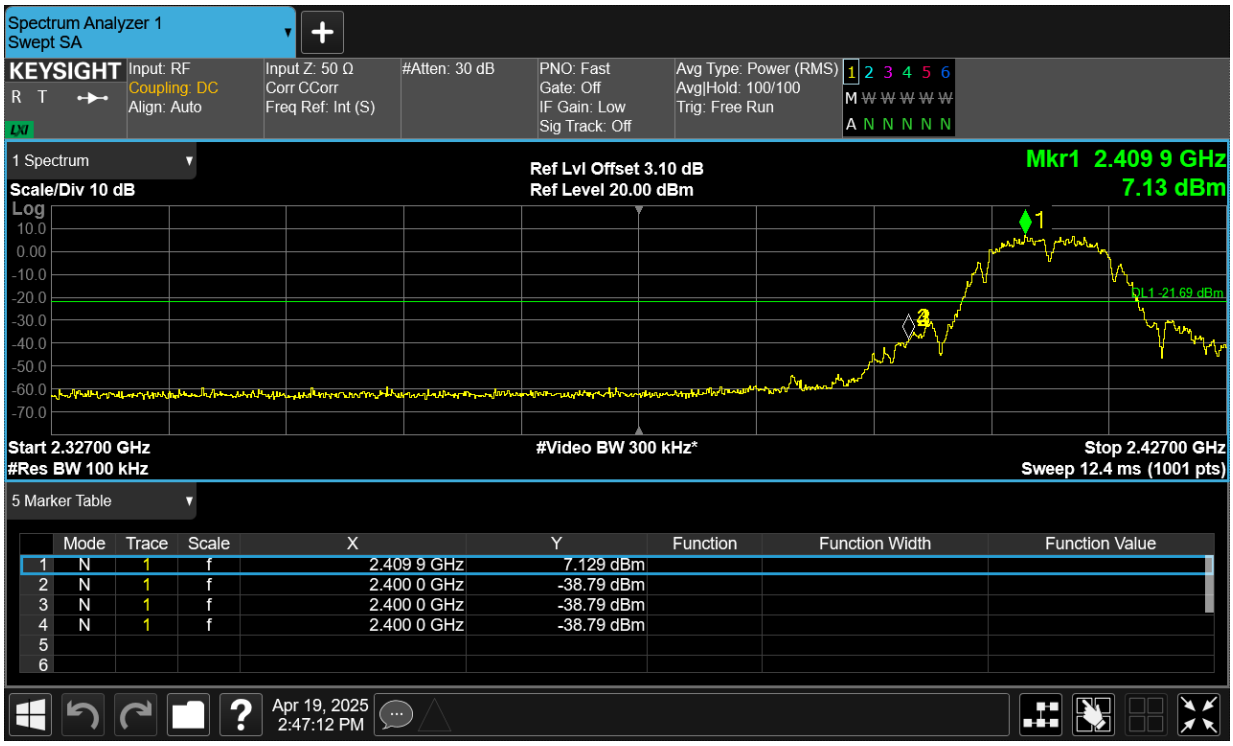
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant12	-47.1	-30	Pass
NVNT	b	2462	Ant12	-62.47	-30	Pass
NVNT	g	2412	Ant12	-33.22	-30	Pass
NVNT	g	2462	Ant12	-42.9	-30	Pass
NVNT	n20	2412	Ant12	-31.74	-30	Pass
NVNT	n20	2462	Ant12	-39.67	-30	Pass

Test Graphs

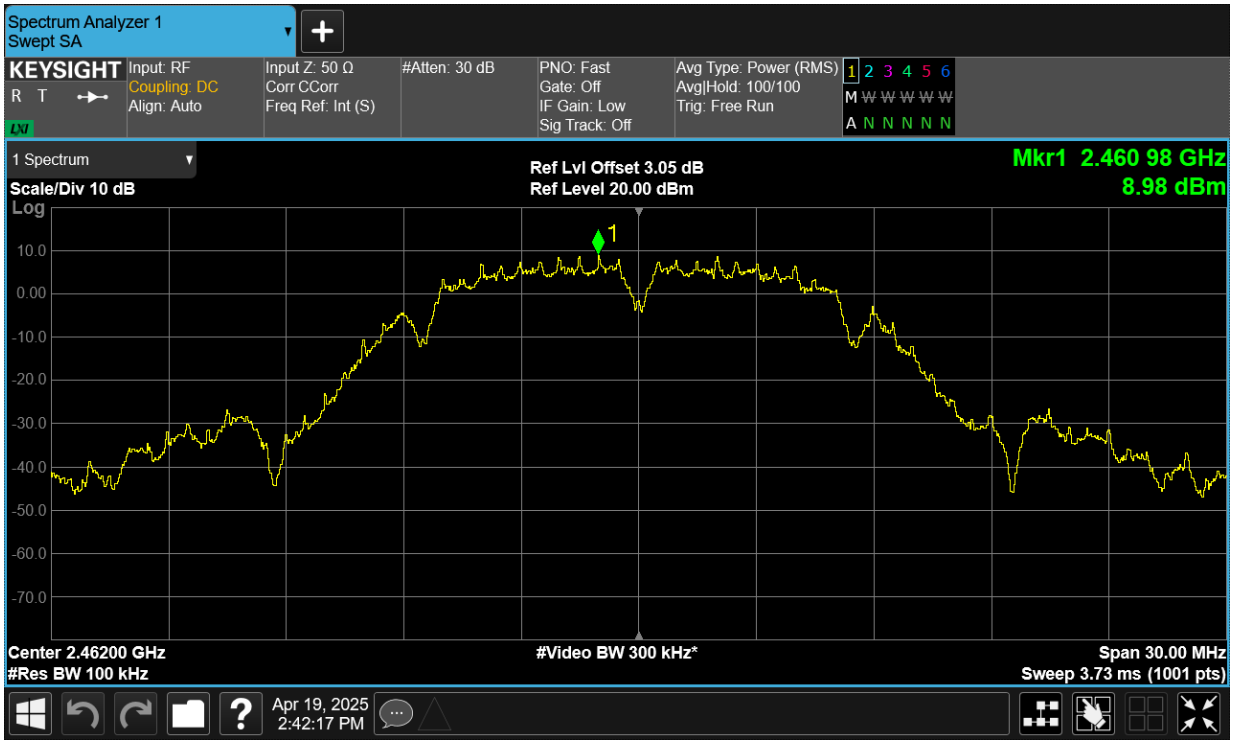
Band Edge NVNT b 2412MHz Ant12 Ref



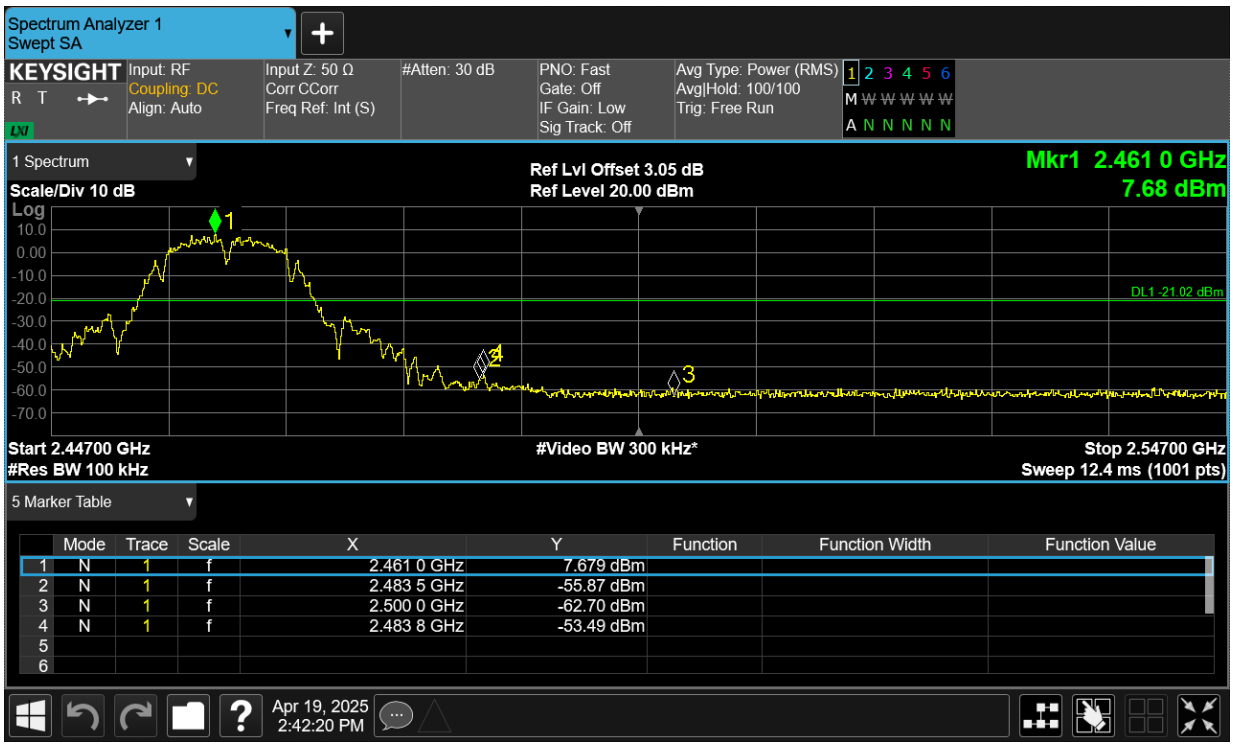
Band Edge NVNT b 2412MHz Ant12 Emission



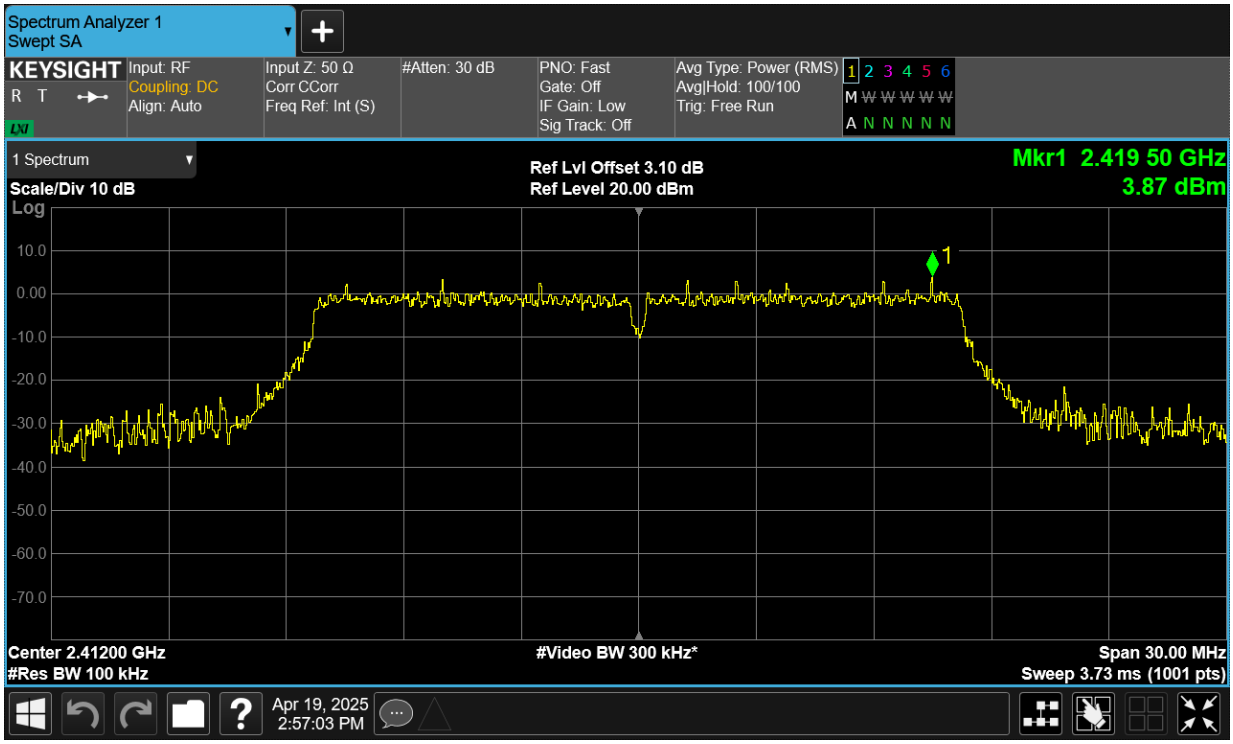
Band Edge NVNT b 2462MHz Ant12 Ref



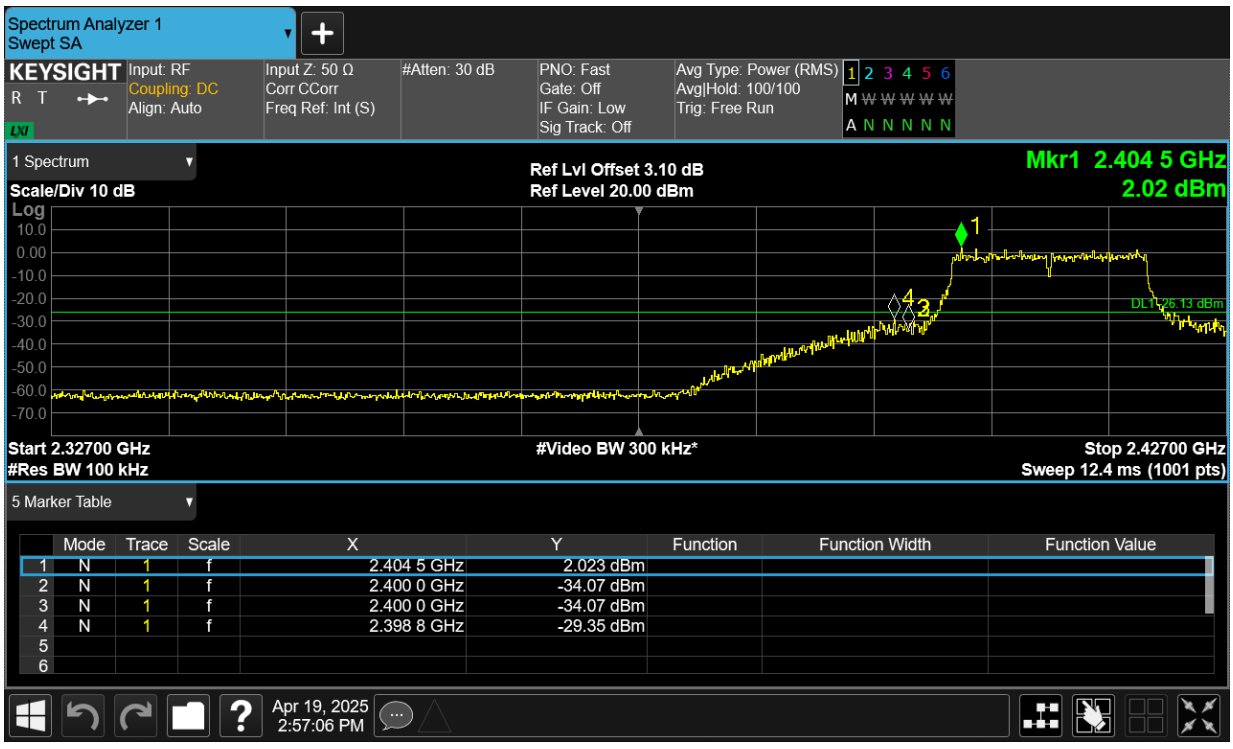
Band Edge NVNT b 2462MHz Ant12 Emission



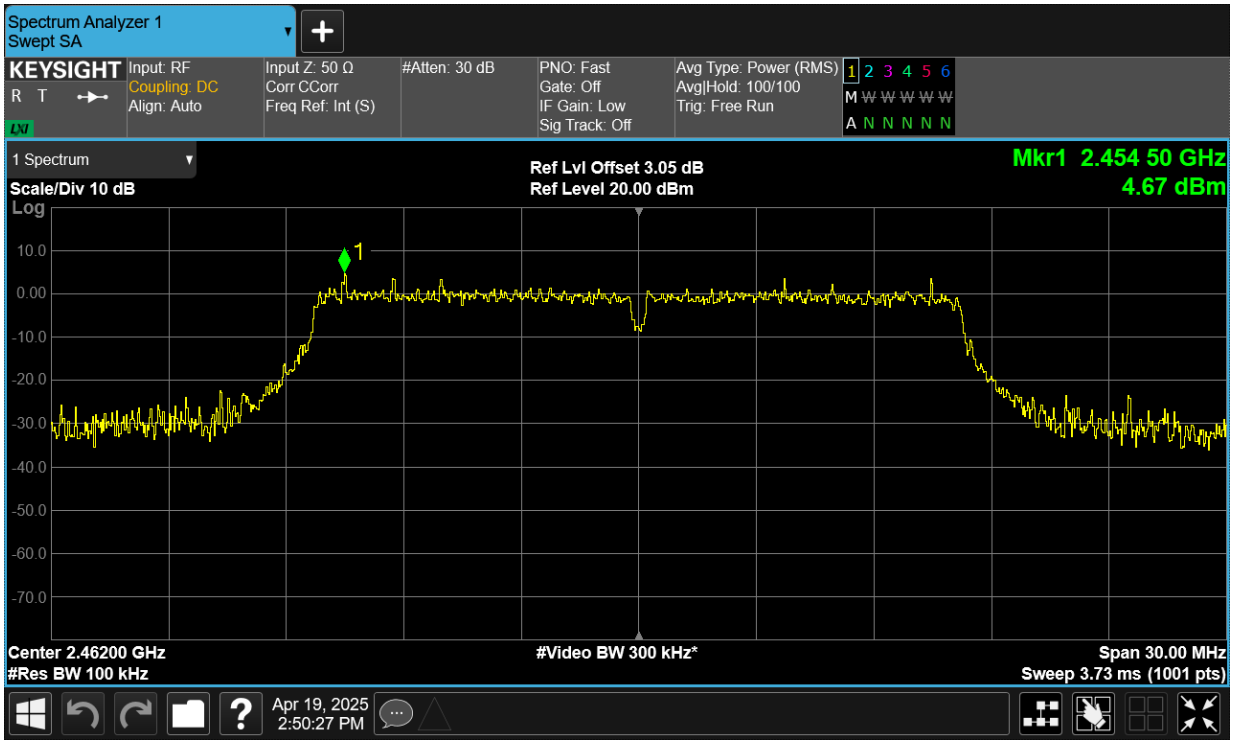
Band Edge NVNT g 2412MHz Ant12 Ref



Band Edge NVNT g 2412MHz Ant12 Emission

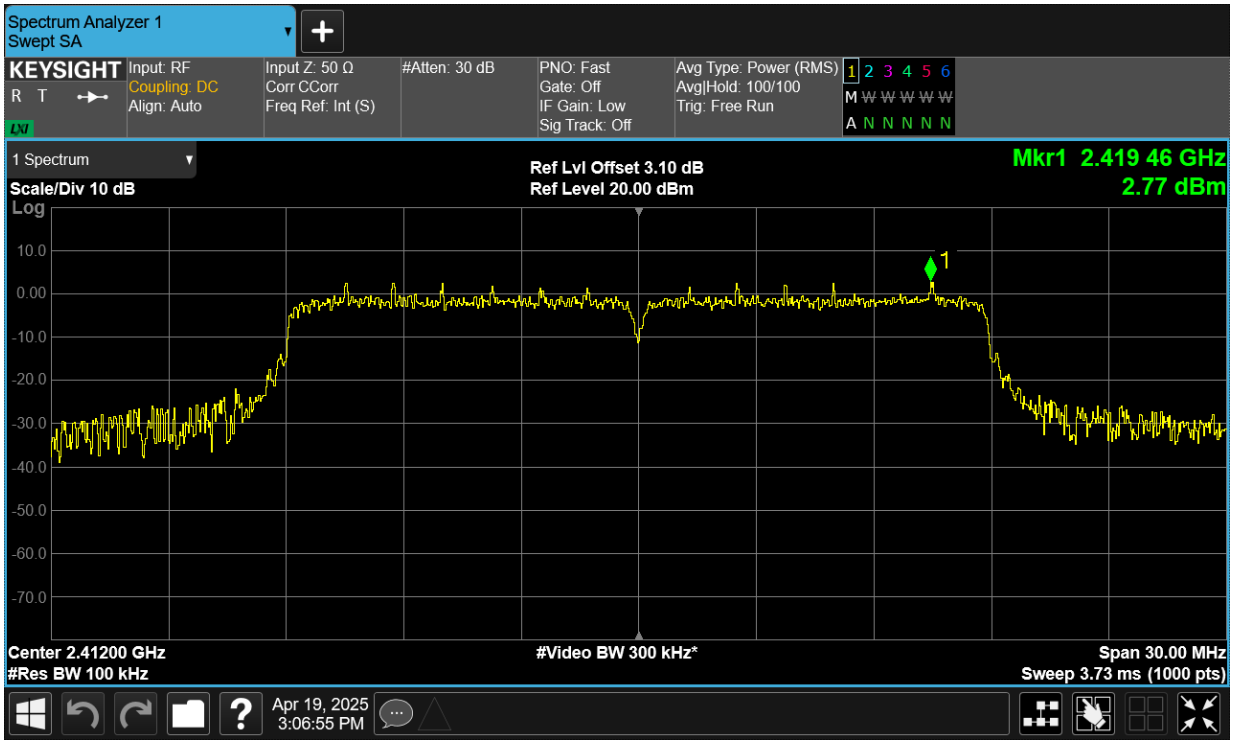


Band Edge NVNT g 2462MHz Ant12 Ref

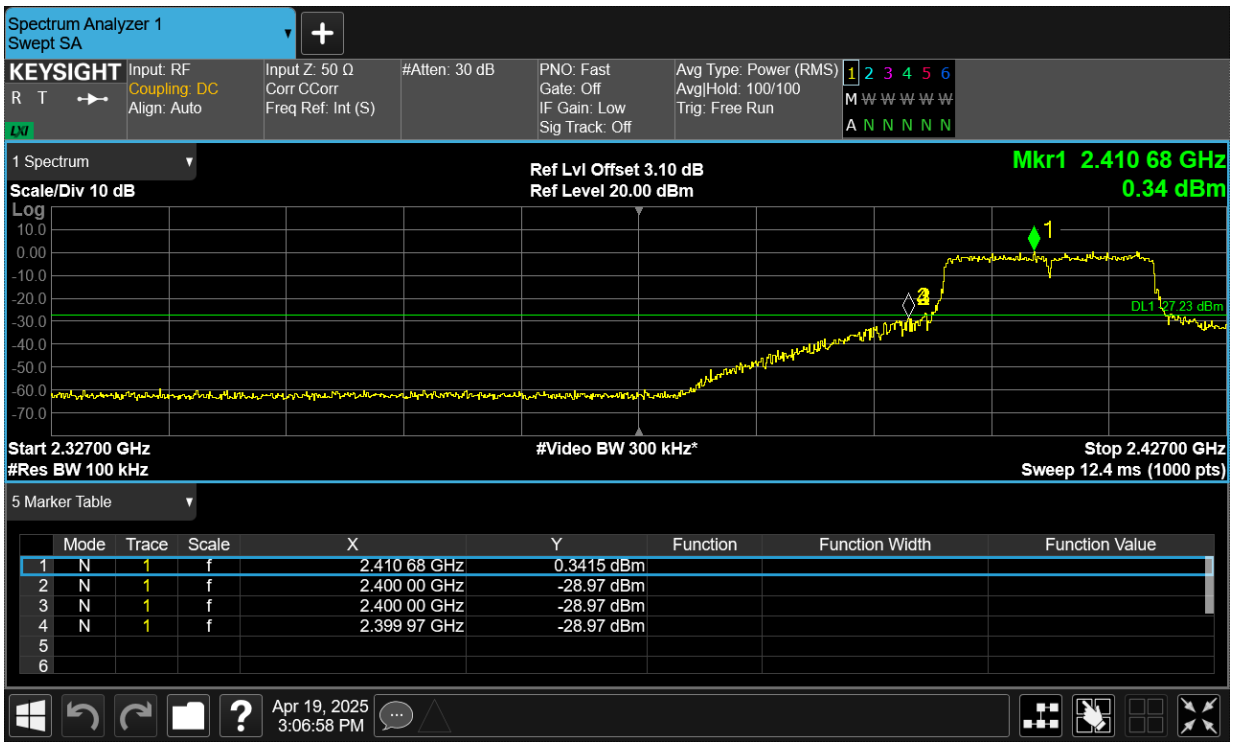


Band Edge NVNT g 2462MHz Ant12 Emission

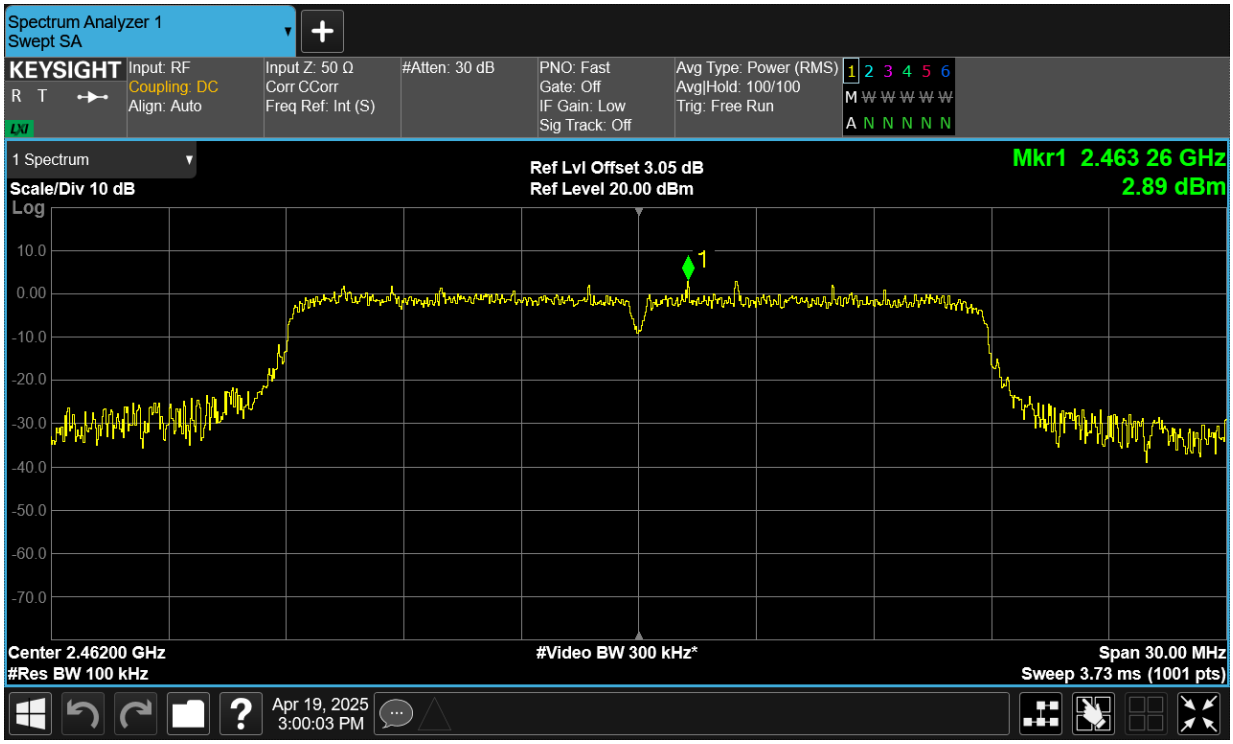
Band Edge NVNT n20 2412MHz Ant12 Ref



Band Edge NVNT n20 2412MHz Ant12 Emission



Band Edge NVNT n20 2462MHz Ant12 Ref

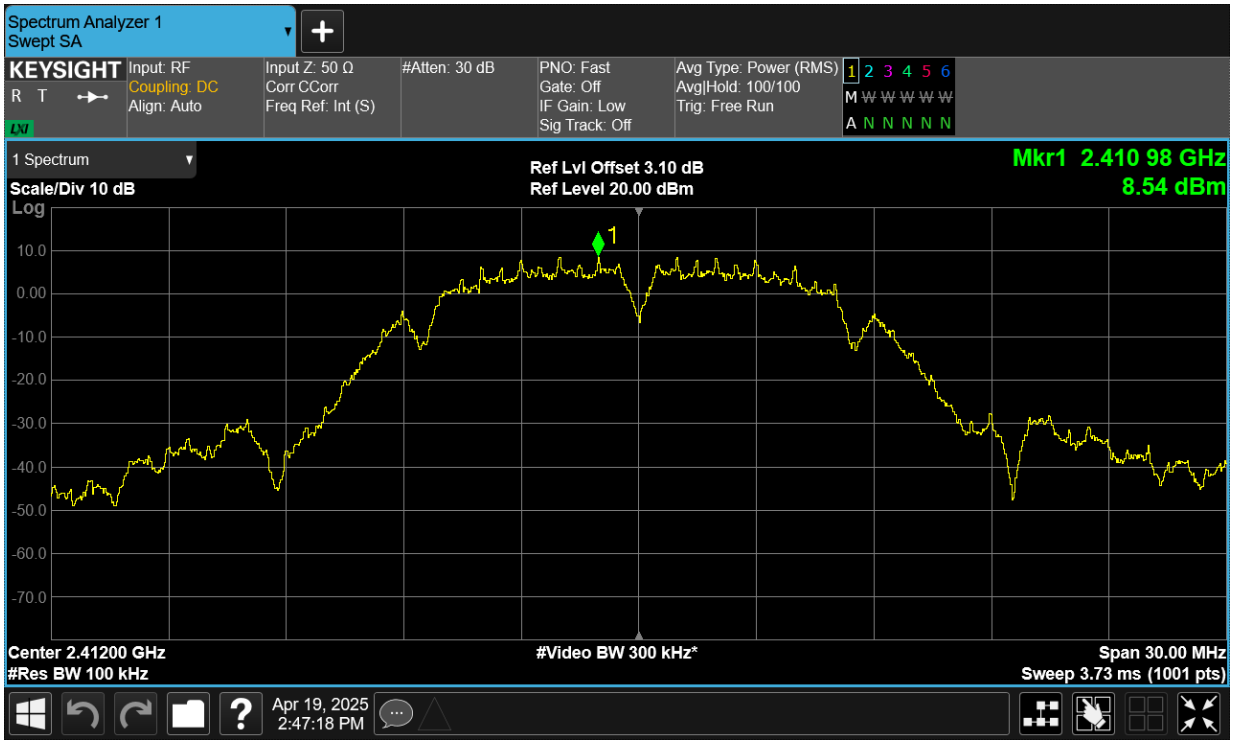


Band Edge NVNT n20 2462MHz Ant12 Emission

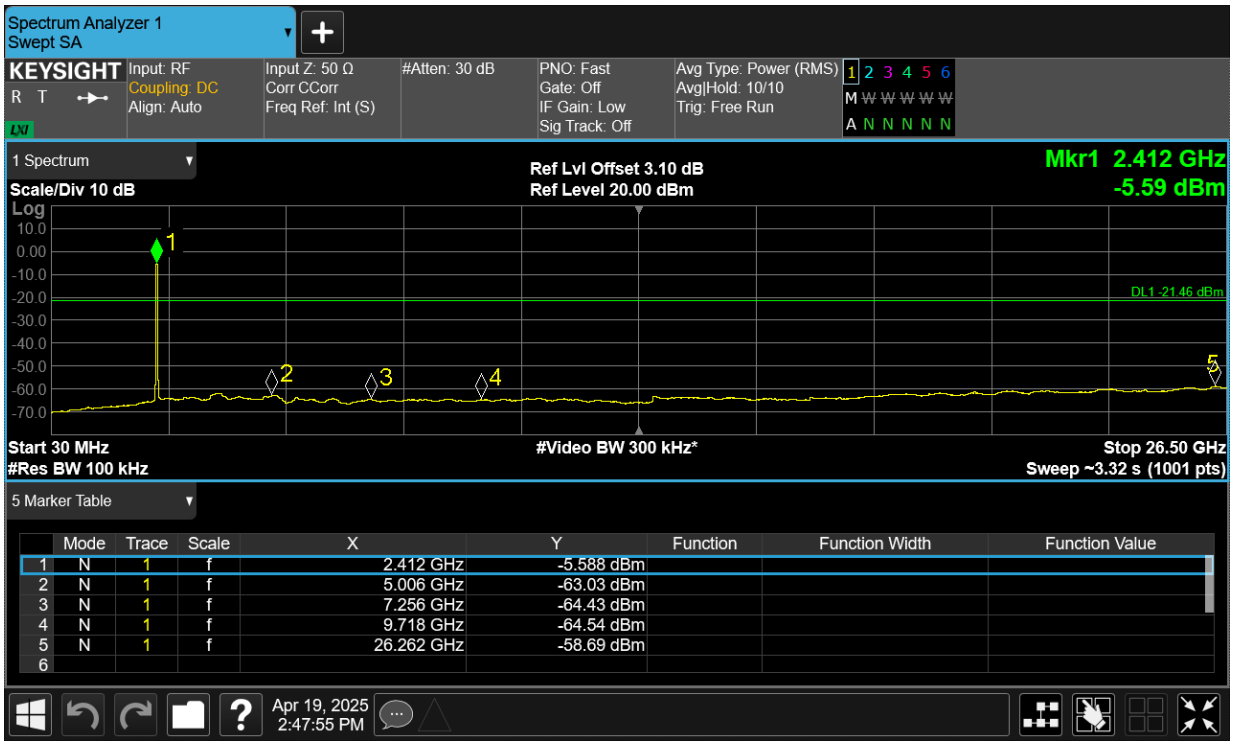
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant12	-67.23	-30	Pass
NVNT	b	2437	Ant12	-66.63	-30	Pass
NVNT	b	2462	Ant12	-67.7	-30	Pass
NVNT	g	2412	Ant12	-62.66	-30	Pass
NVNT	g	2437	Ant12	-61.9	-30	Pass
NVNT	g	2462	Ant12	-62.66	-30	Pass
NVNT	n20	2412	Ant12	-61.79	-30	Pass
NVNT	n20	2437	Ant12	-61.67	-30	Pass
NVNT	n20	2462	Ant12	-61.57	-30	Pass

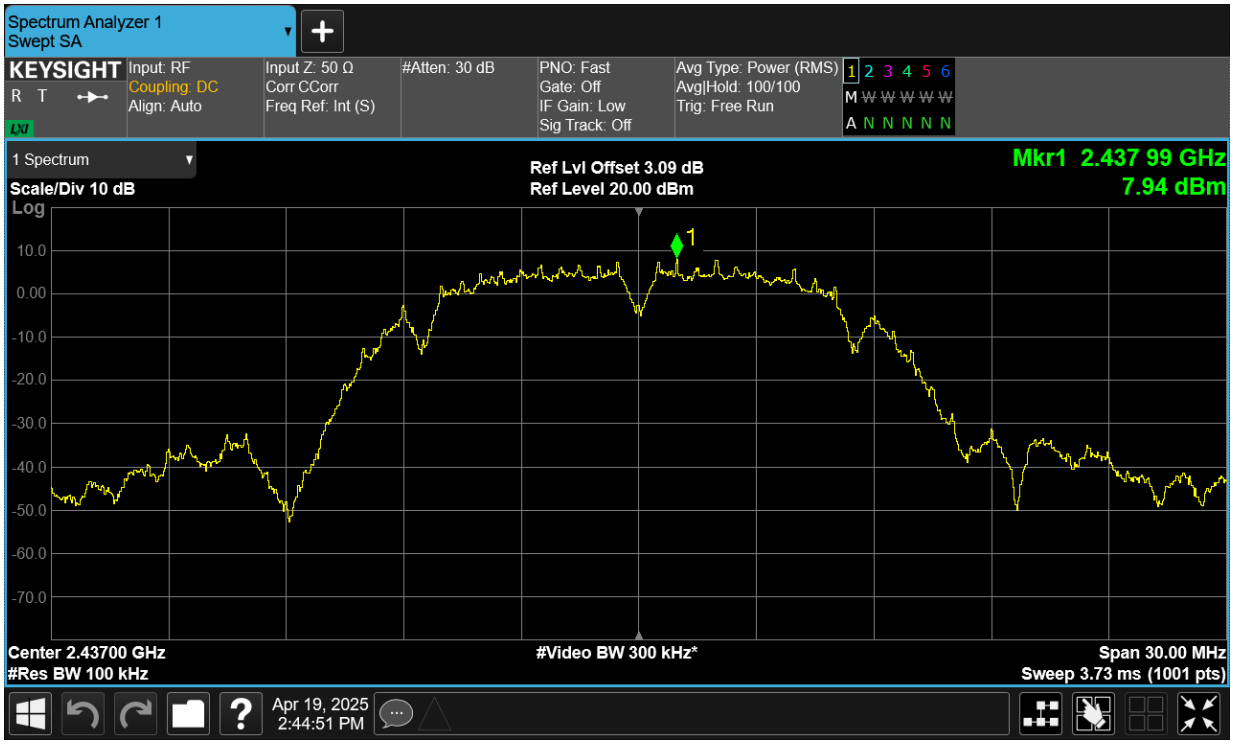
Test Graphs
Tx. Spurious NVNT b 2412MHz Ant12 Ref



Tx. Spurious NVNT b 2412MHz Ant12 Emission

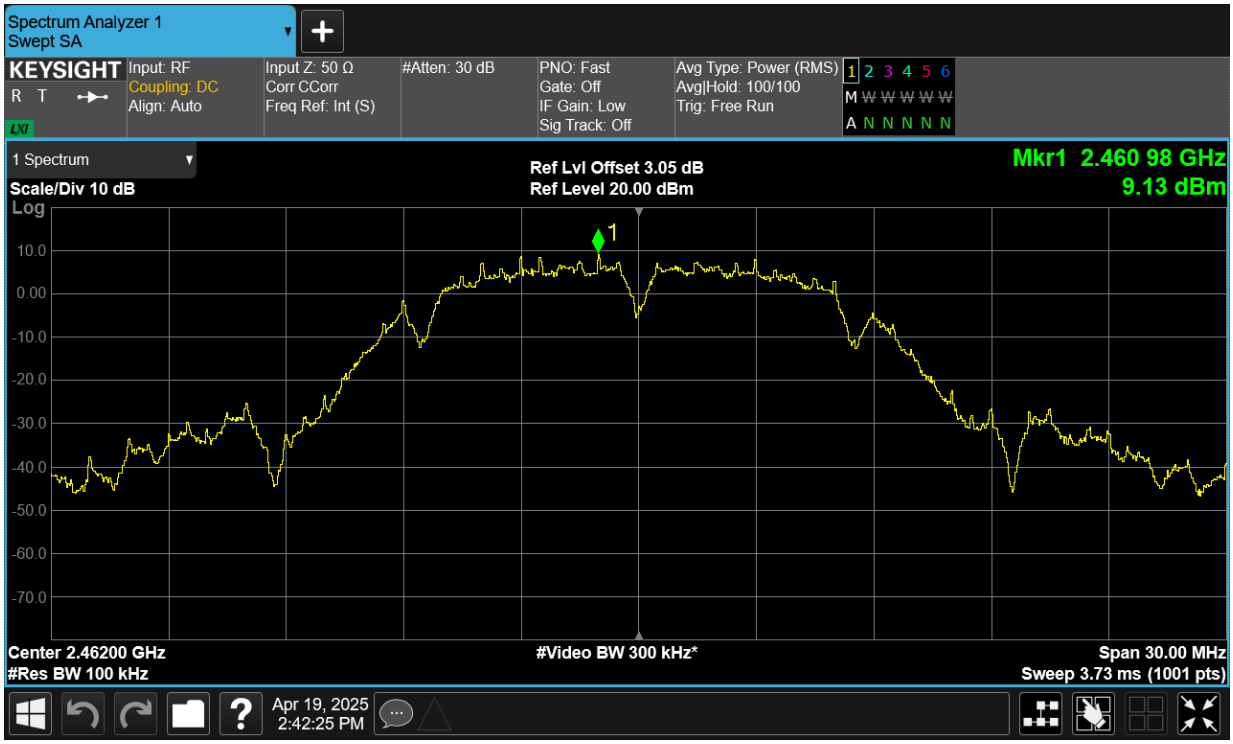


Tx. Spurious NVNT b 2437MHz Ant12 Ref

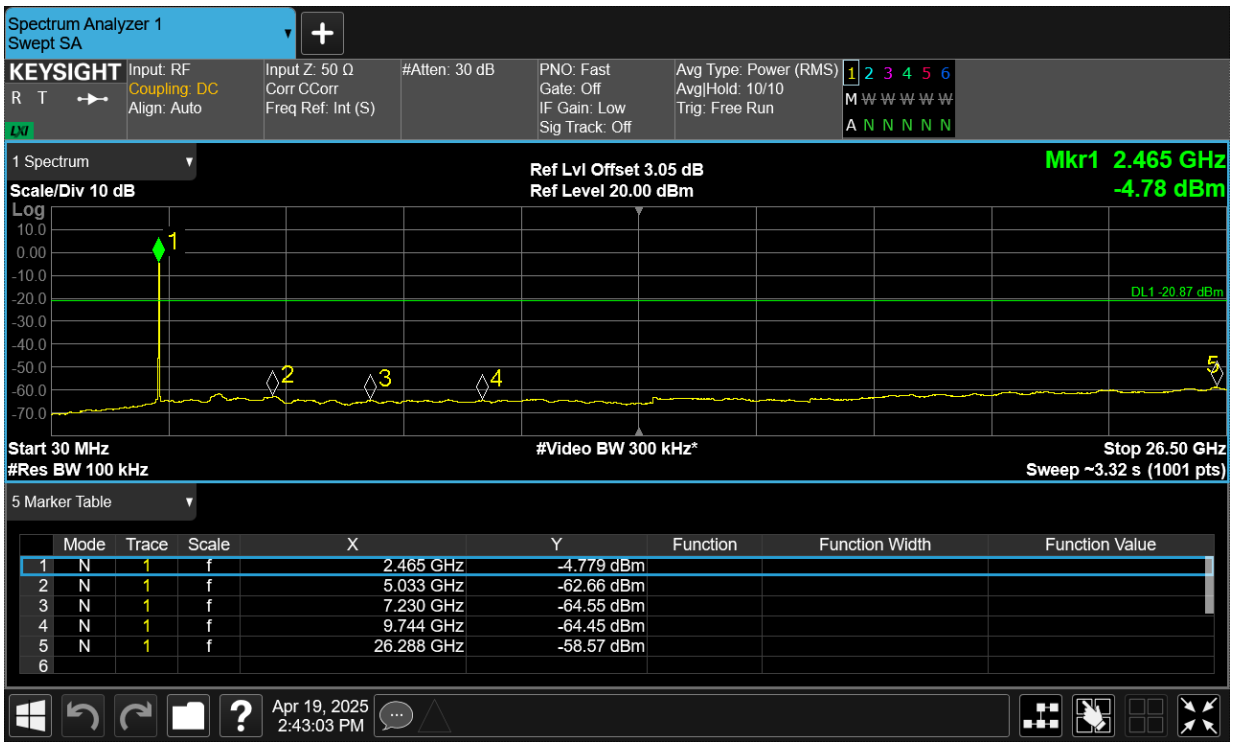


Tx. Spurious NVNT b 2437MHz Ant12 Emission

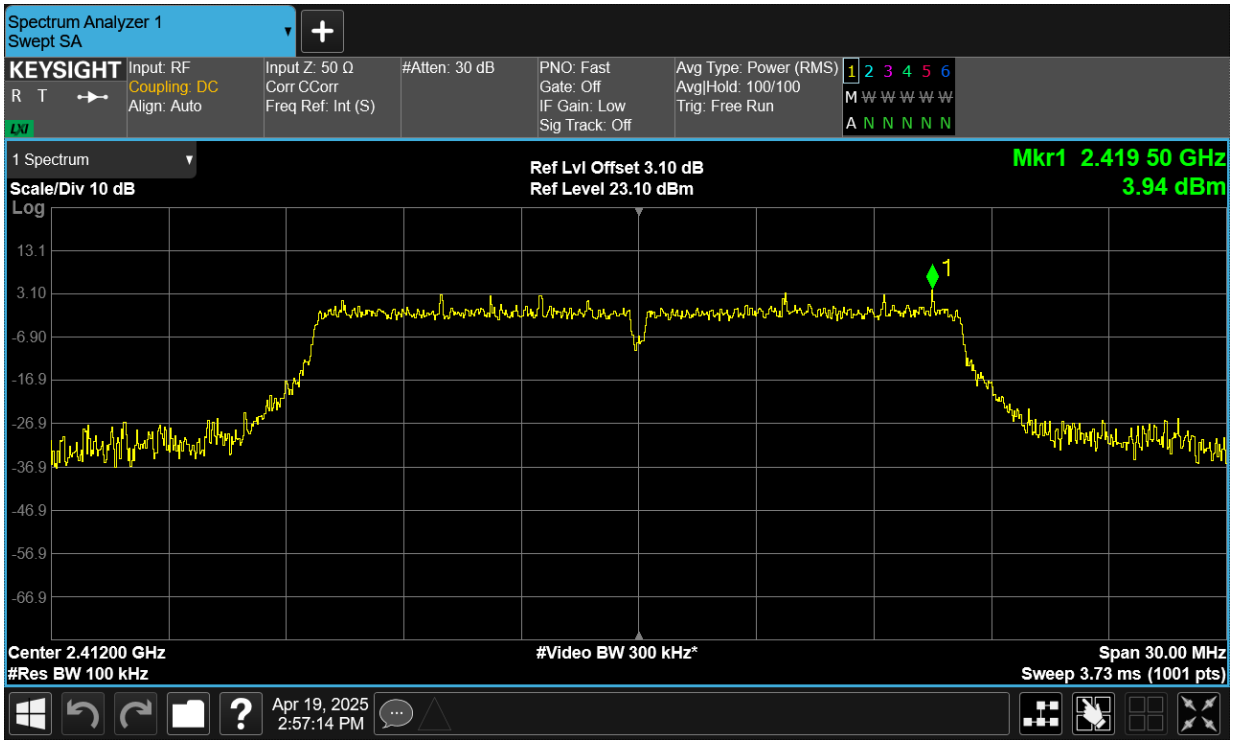
Tx. Spurious NVNT b 2462MHz Ant12 Ref



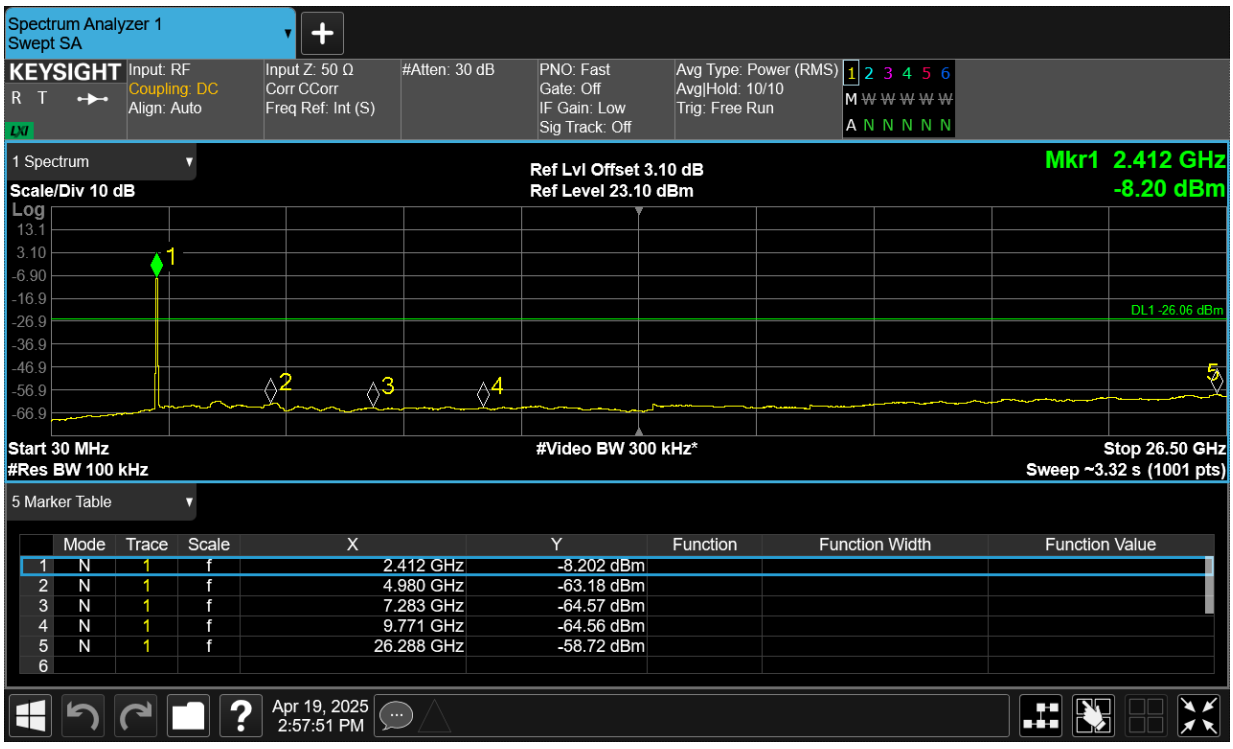
Tx. Spurious NVNT b 2462MHz Ant12 Emission



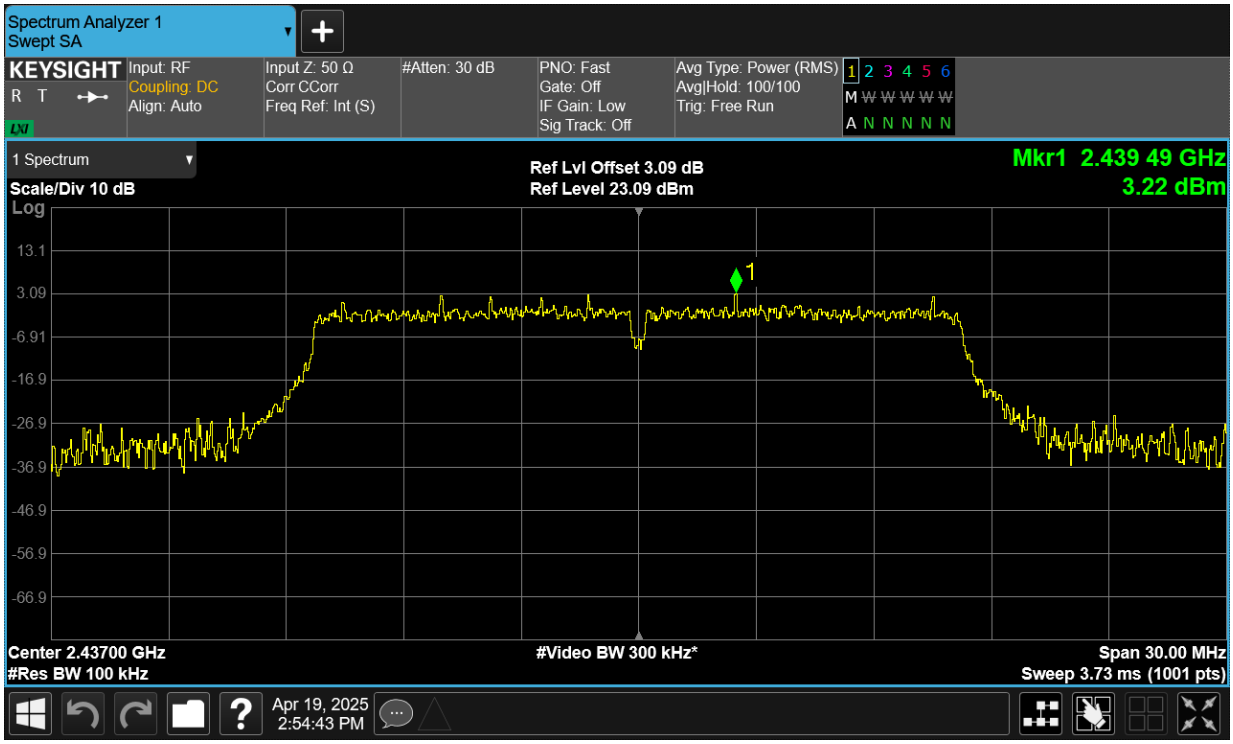
Tx. Spurious NVNT g 2412MHz Ant12 Ref



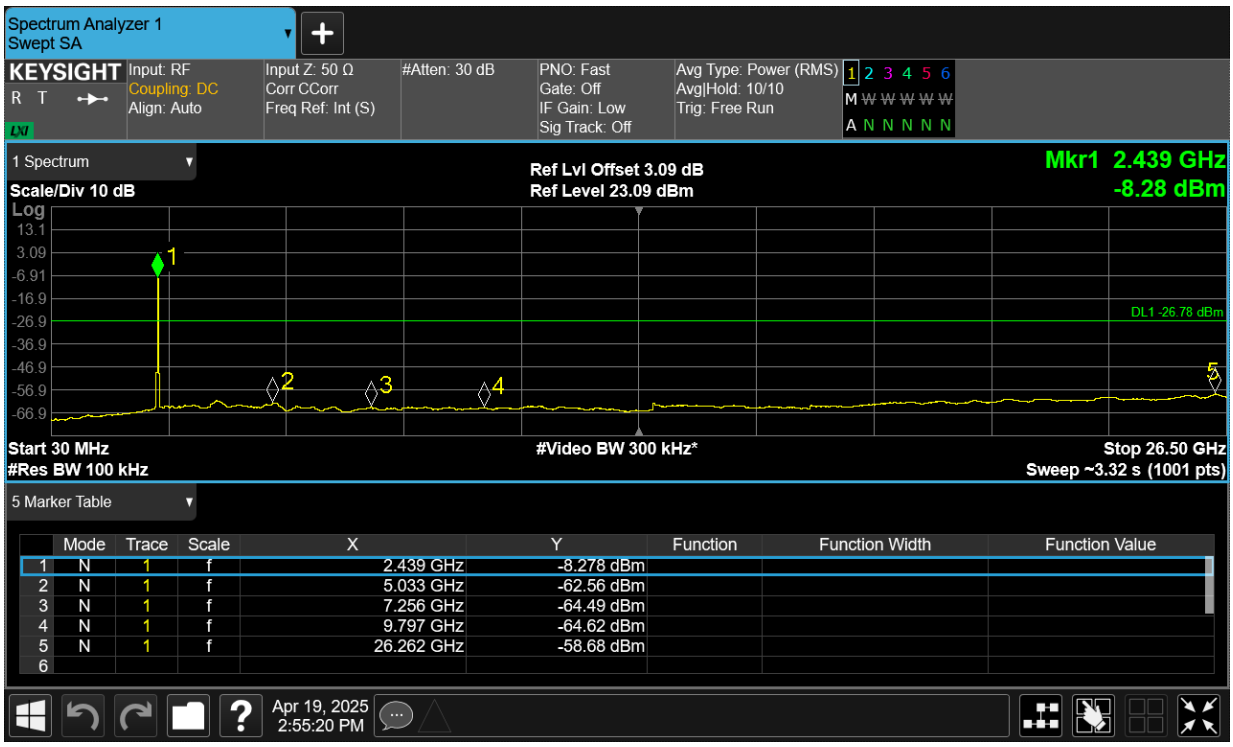
Tx. Spurious NVNT g 2412MHz Ant12 Emission



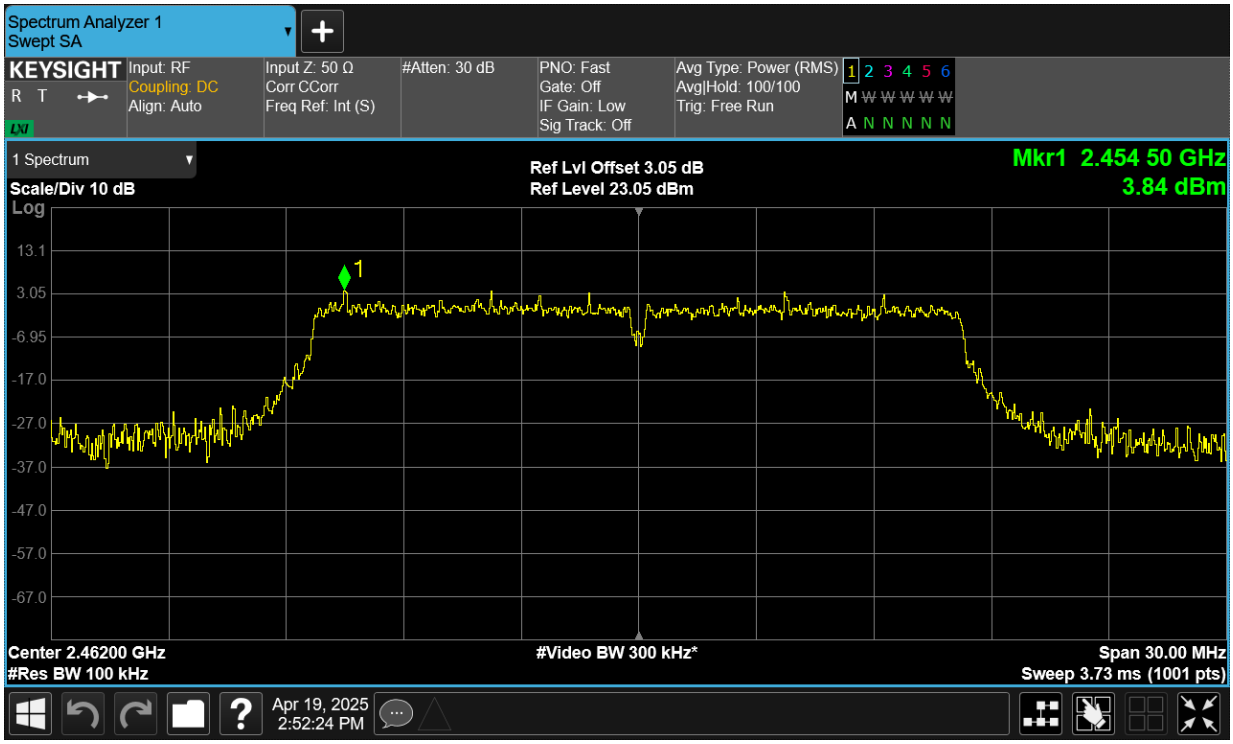
Tx. Spurious NVNT g 2437MHz Ant12 Ref



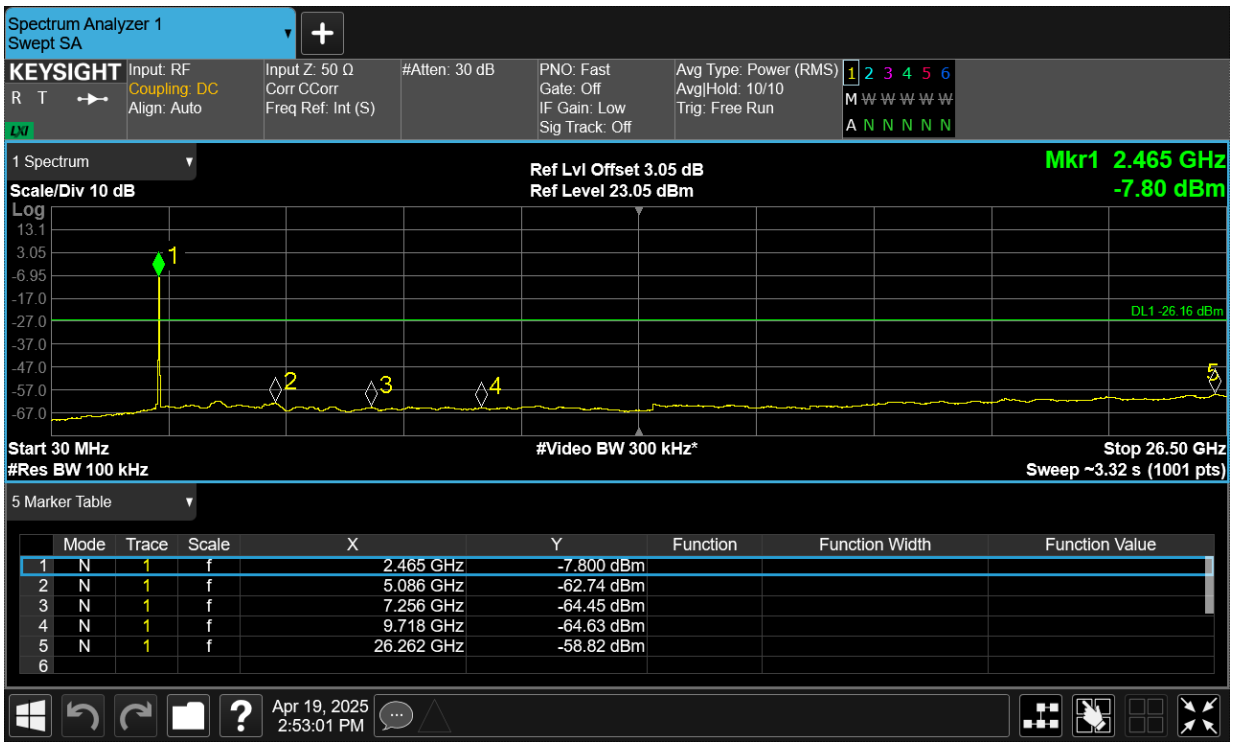
Tx. Spurious NVNT g 2437MHz Ant12 Emission



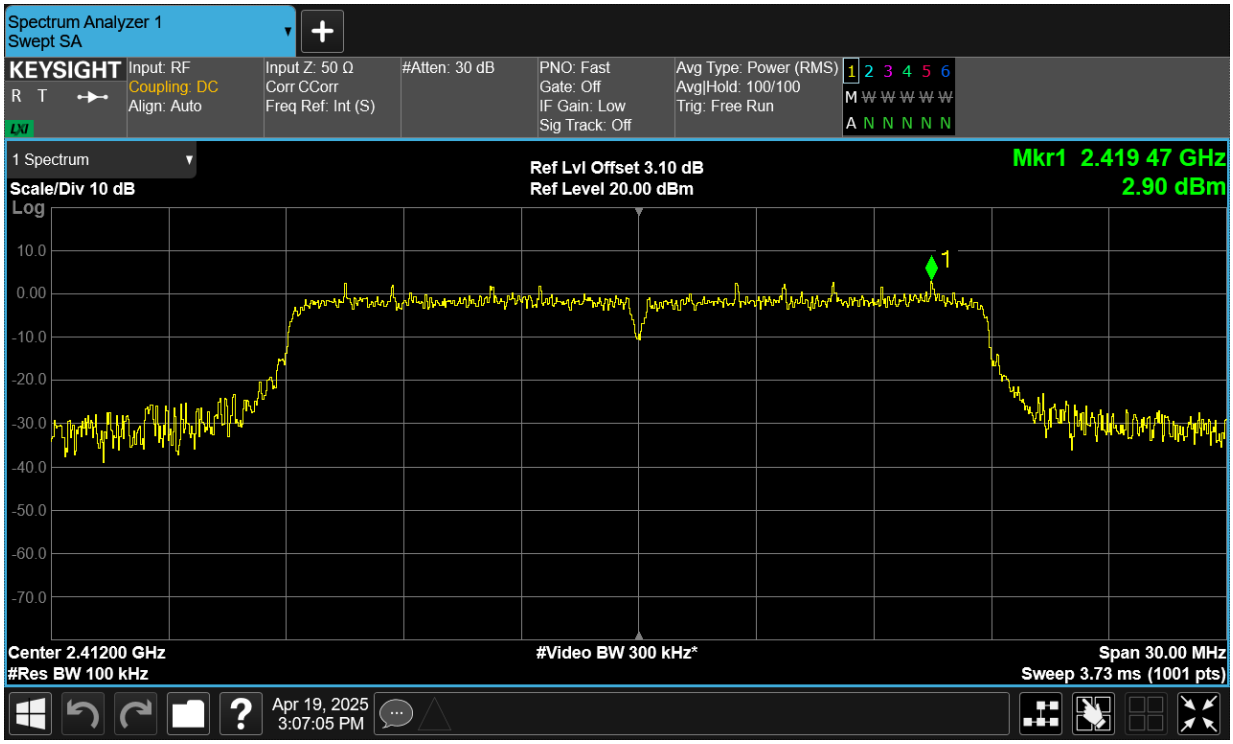
Tx. Spurious NVNT g 2462MHz Ant12 Ref



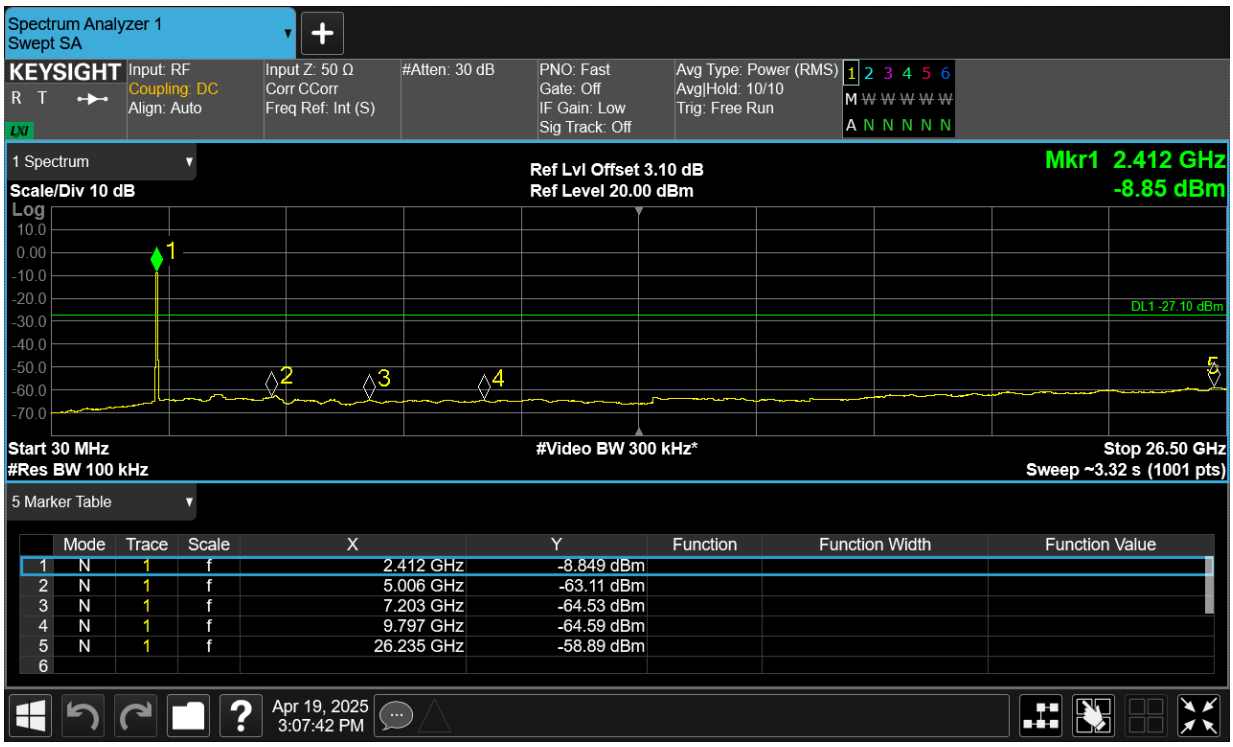
Tx. Spurious NVNT g 2462MHz Ant12 Emission



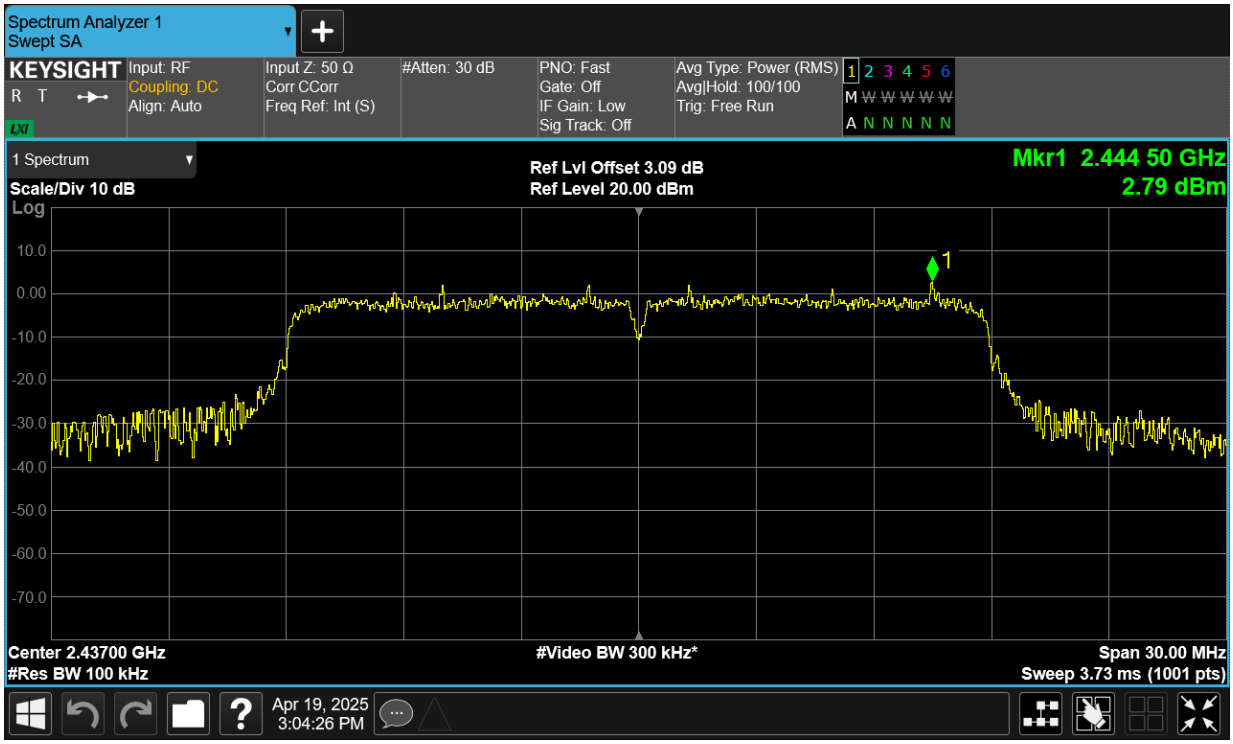
Tx. Spurious NVNT n20 2412MHz Ant12 Ref



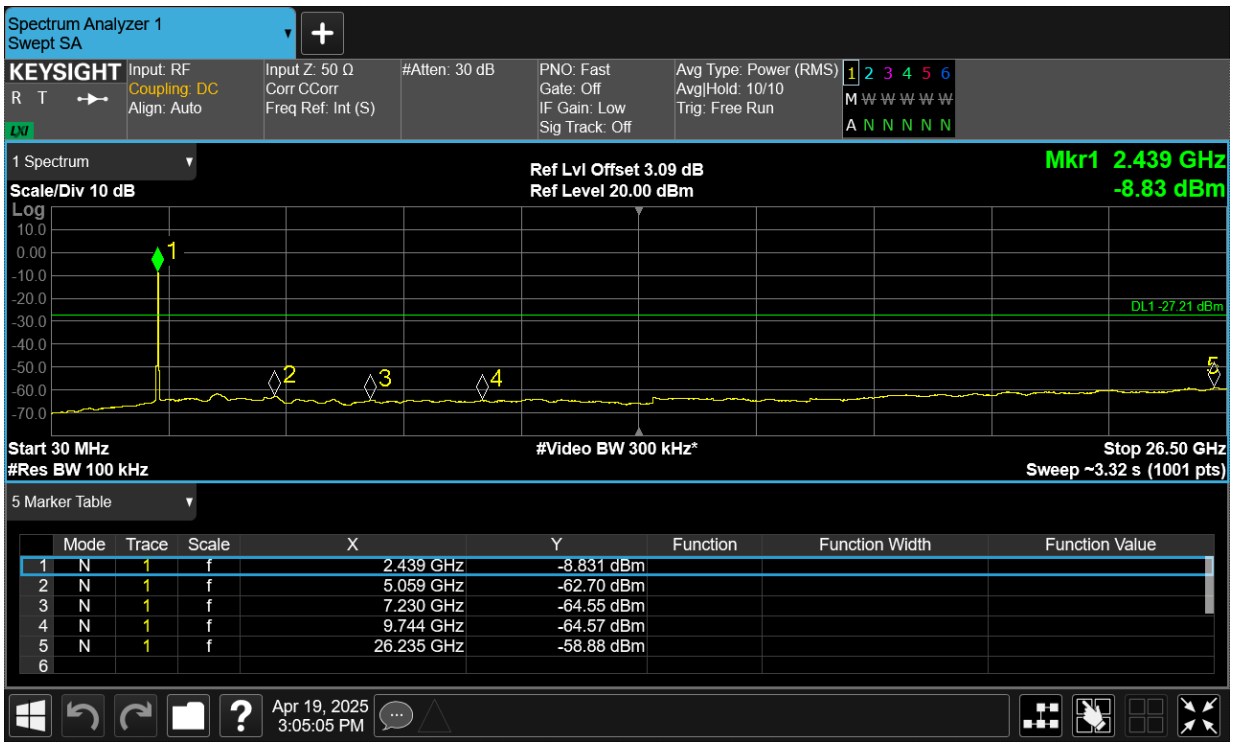
Tx. Spurious NVNT n20 2412MHz Ant12 Emission



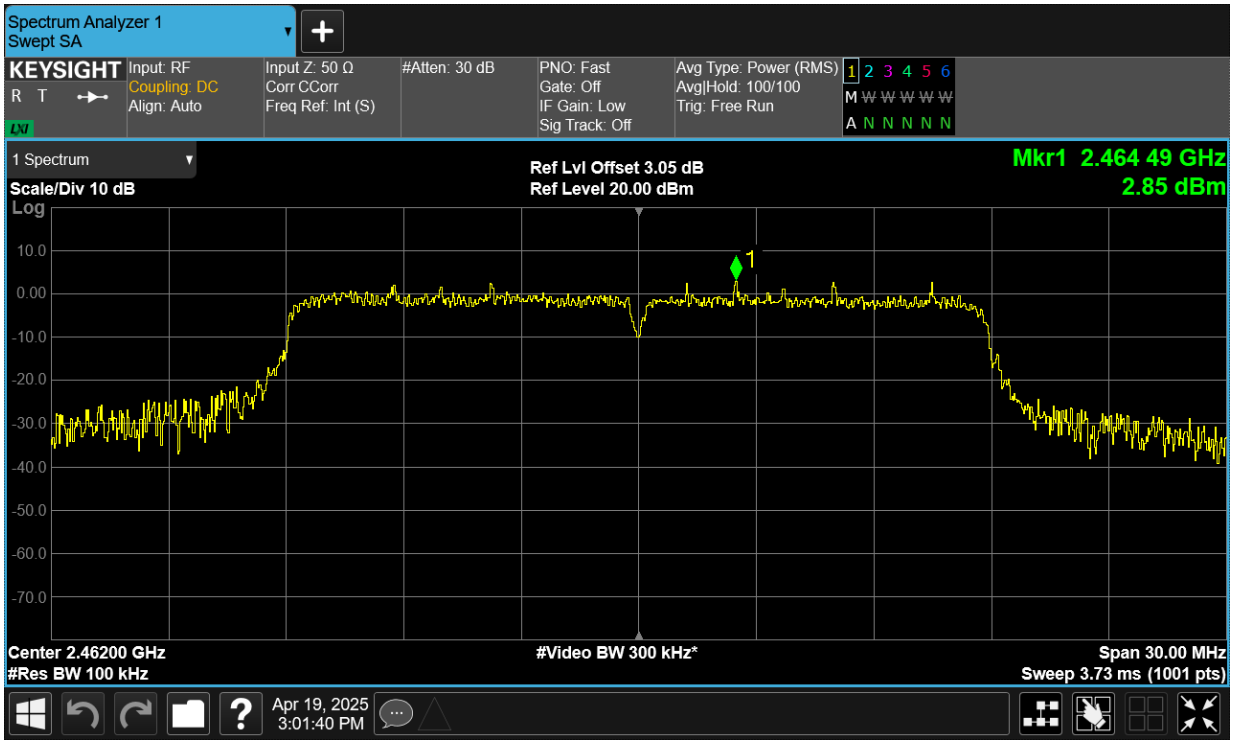
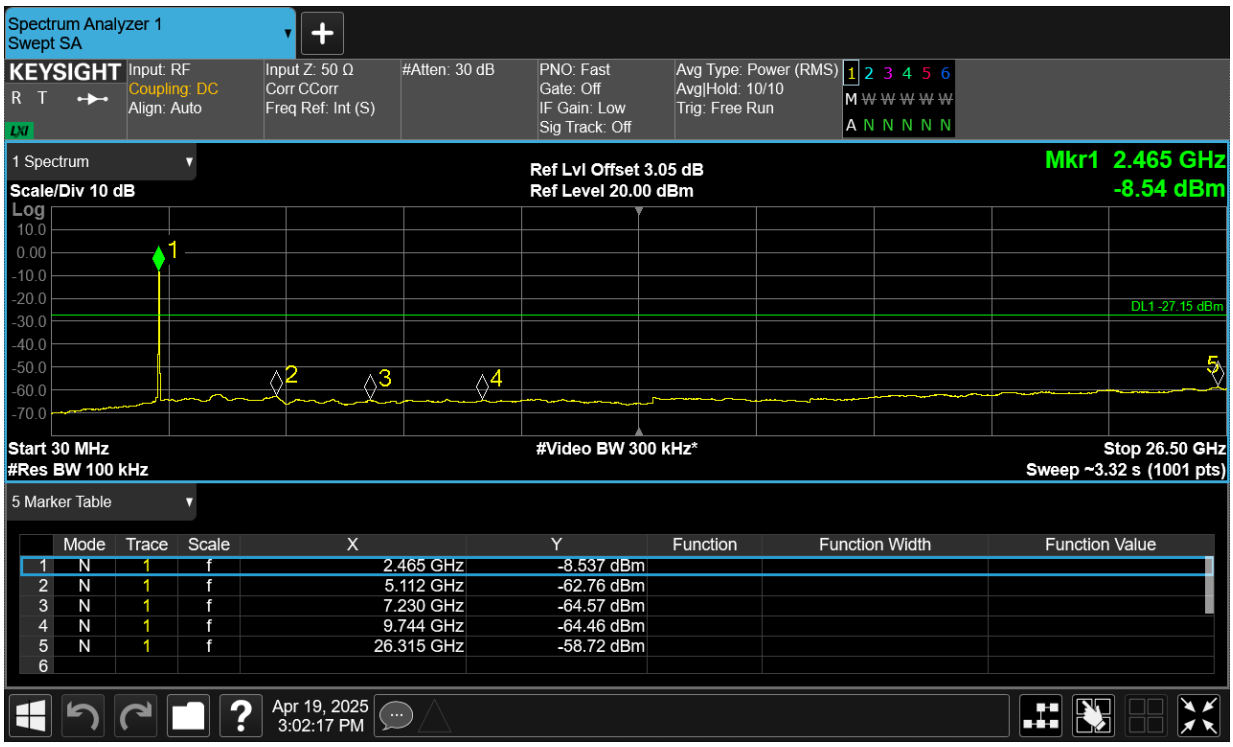
Tx. Spurious NVNT n20 2437MHz Ant12 Ref



Tx. Spurious NVNT n20 2437MHz Ant12 Emission



Tx. Spurious NVNT n20 2462MHz Ant12 Ref



Tx. Spurious NVNT n20 2462MHz Ant12 Emission