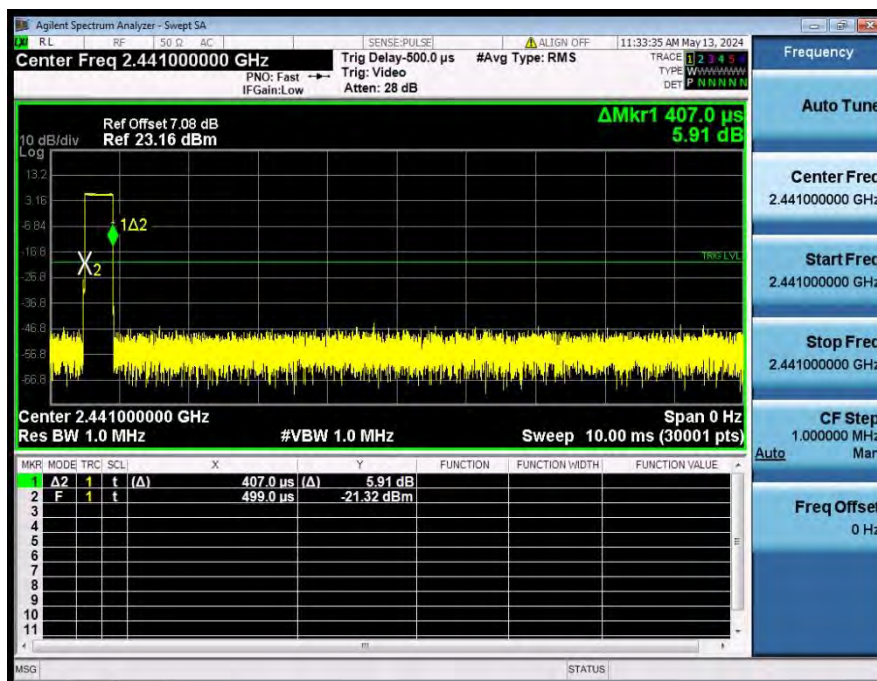
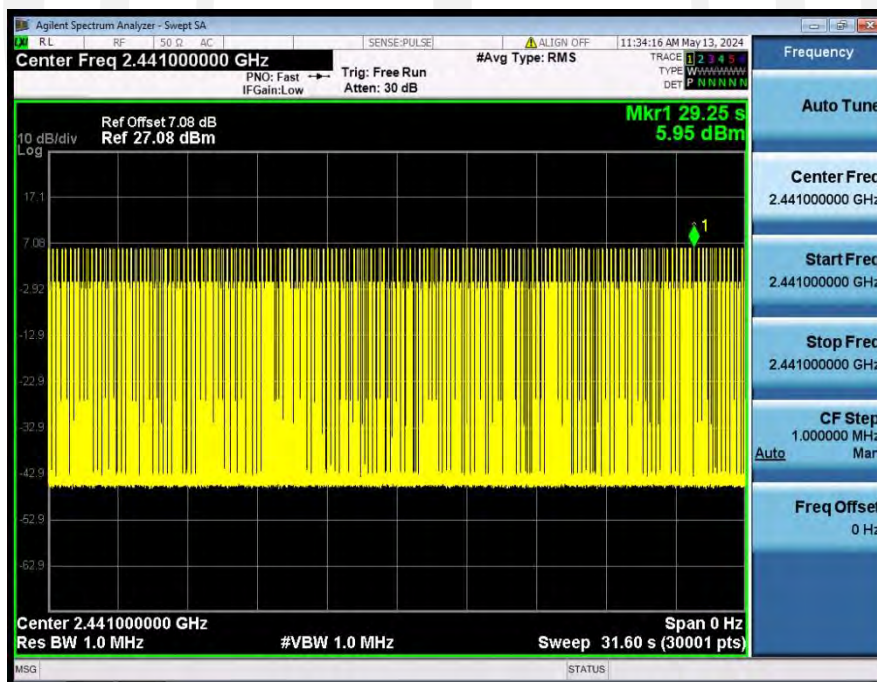


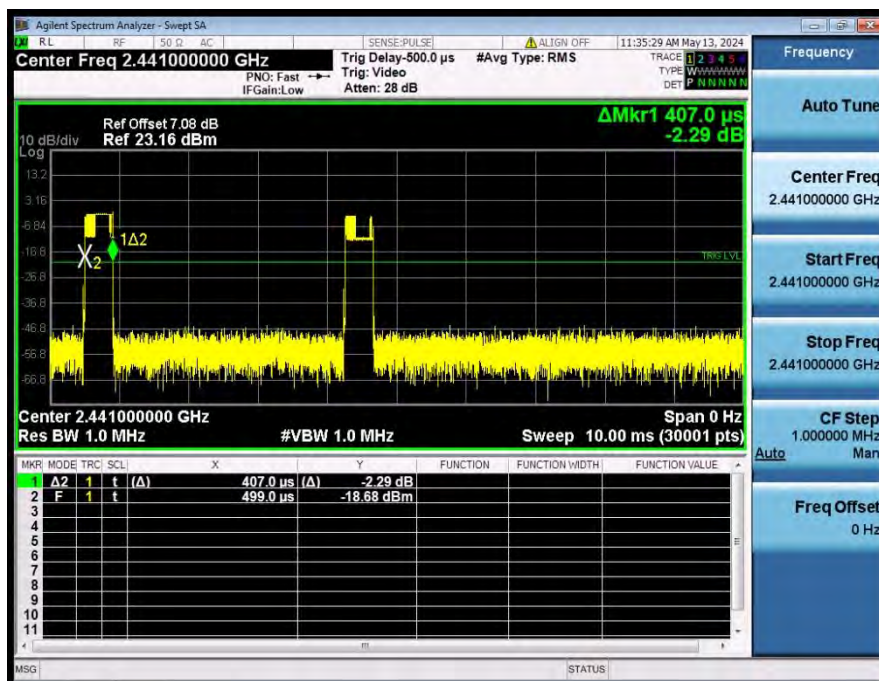
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH1_2441_One_Burst_Time



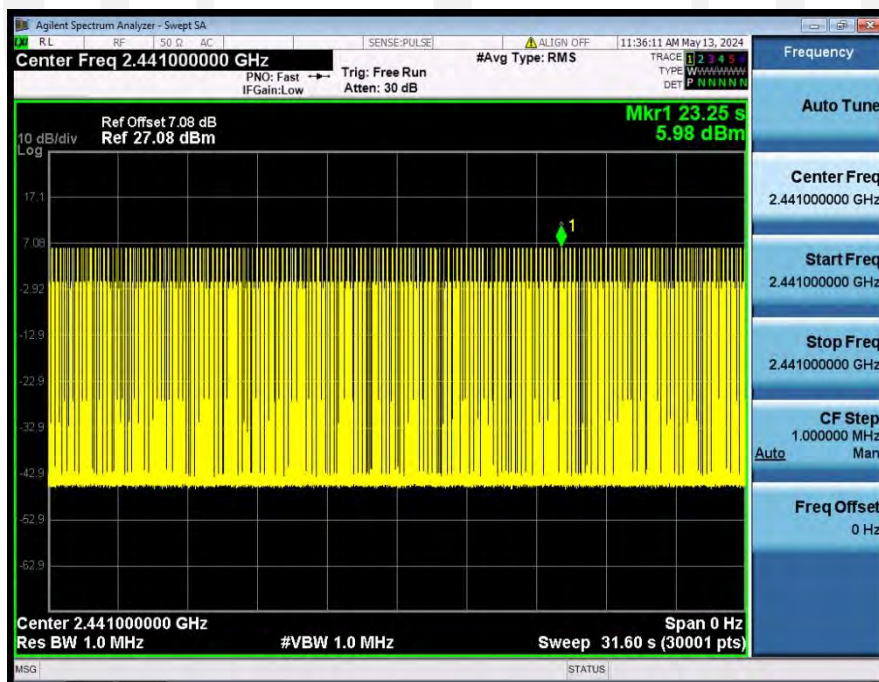
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH1_2441_Accumulated



Dwell_Time_(Hopping)_NVNT_ANT1_3-DH1_2441_One_Burst_Time



Dwell_Time_(Hopping)_NVNT_ANT1_3-DH1_2441_Accumulated



The screenshot displays the Agilent Spectrum Analyzer interface. The main display shows a signal trace with a peak labeled $\Delta 2$. The measurement results are as follows:

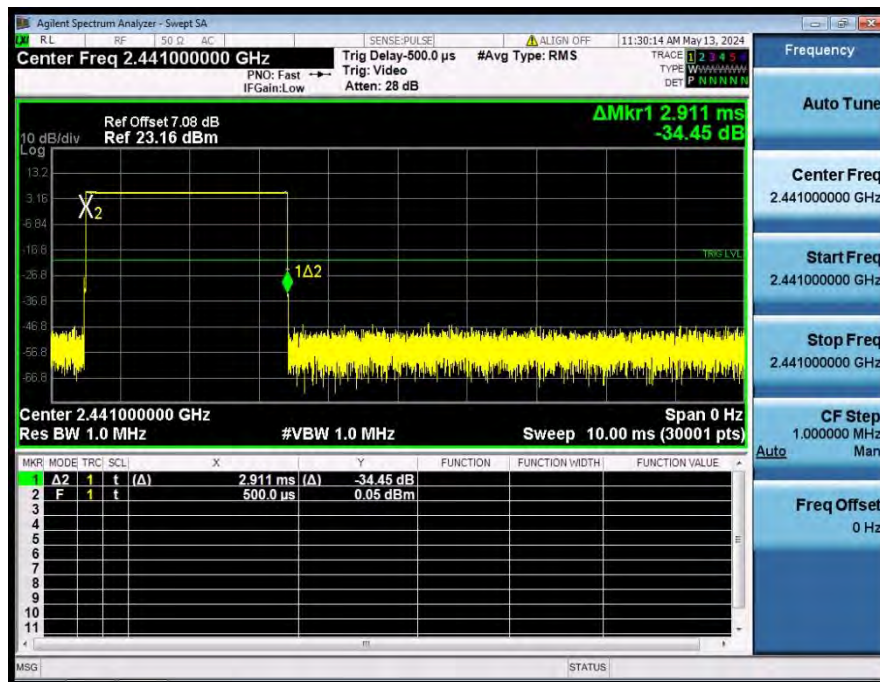
MKR	MODE	TRC	SCN	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	$\Delta 2$	1	t	(Δ)	1.663 ms	(Δ)		-2.95 dB
2	F	1	t		499.0 μ s			-19.98 dBm

The right-hand panel shows various controls and settings, including Frequency, Auto Tune, Center Freq (2.441000000 GHz), Start Freq (2.441000000 GHz), Stop Freq (2.441000000 GHz), CF Step (1.000000 MHz), and Freq Offset (0 Hz).

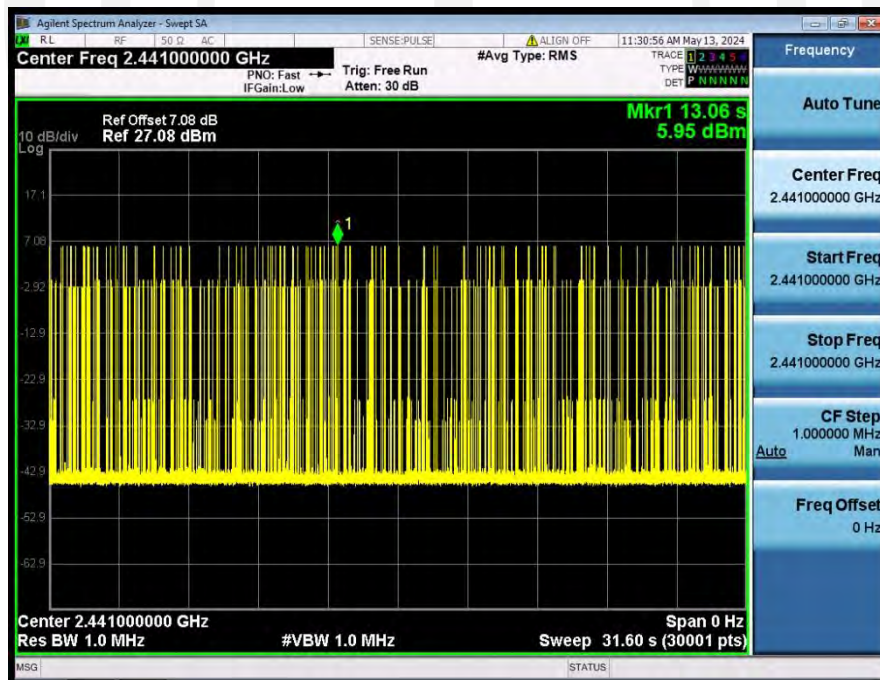
The screenshot displays an Agilent Spectrum Analyzer interface. The main plot shows a noisy signal centered at 2.441000000 GHz. The y-axis represents power in dBm, ranging from -62.9 to 17.1. A peak marker is visible at 22.17 s with a value of 5.97 dBm. The right panel contains controls for Frequency, Auto Tune, Center Freq, Start Freq, Stop Freq, CF Step, and Freq Offset. The bottom panel shows Center, Res BW, #VBW, Span, and Sweep settings.

Parameter	Value
Center Freq	2.441000000 GHz
Start Freq	2.441000000 GHz
Stop Freq	2.441000000 GHz
CF Step	1.000000 MHz
Freq Offset	0 Hz
Center	2.441000000 GHz
Res BW	1.0 MHz
#VBW	1.0 MHz
Span	0 Hz
Sweep	31.60 s (30001 pts)

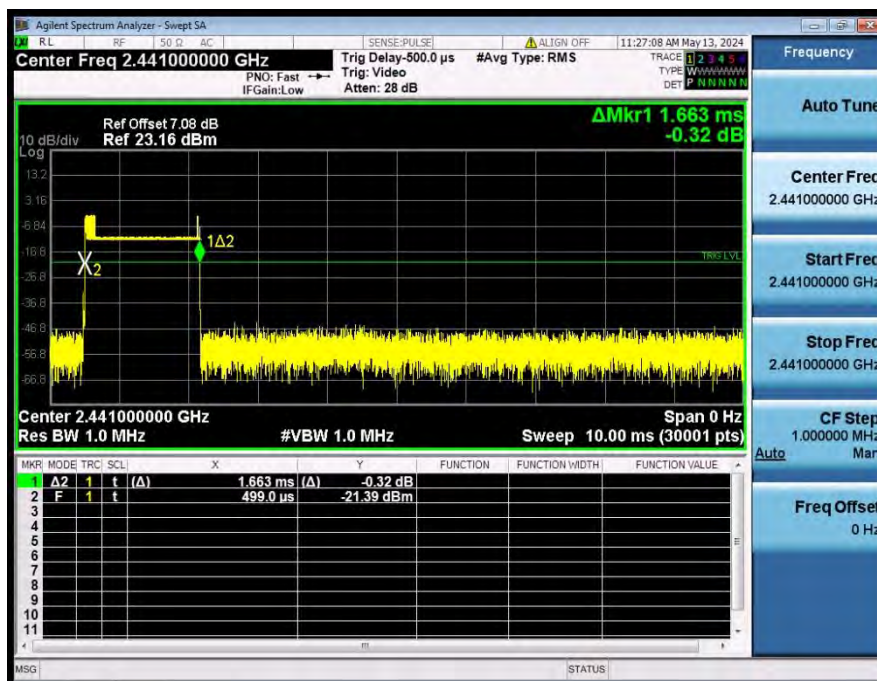
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH5_2441_One_Burst_Time



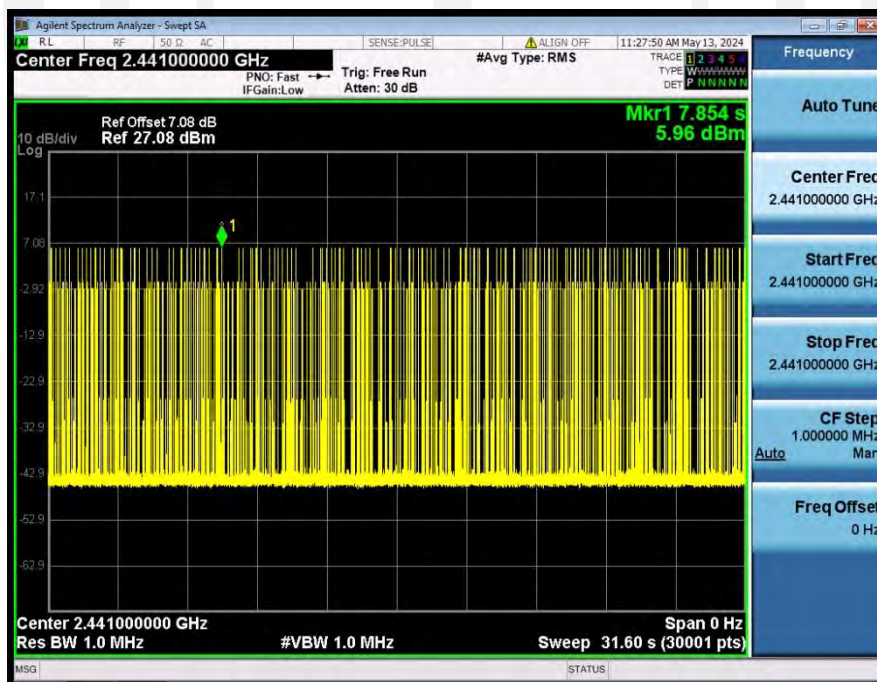
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH5_2441_Accumulated



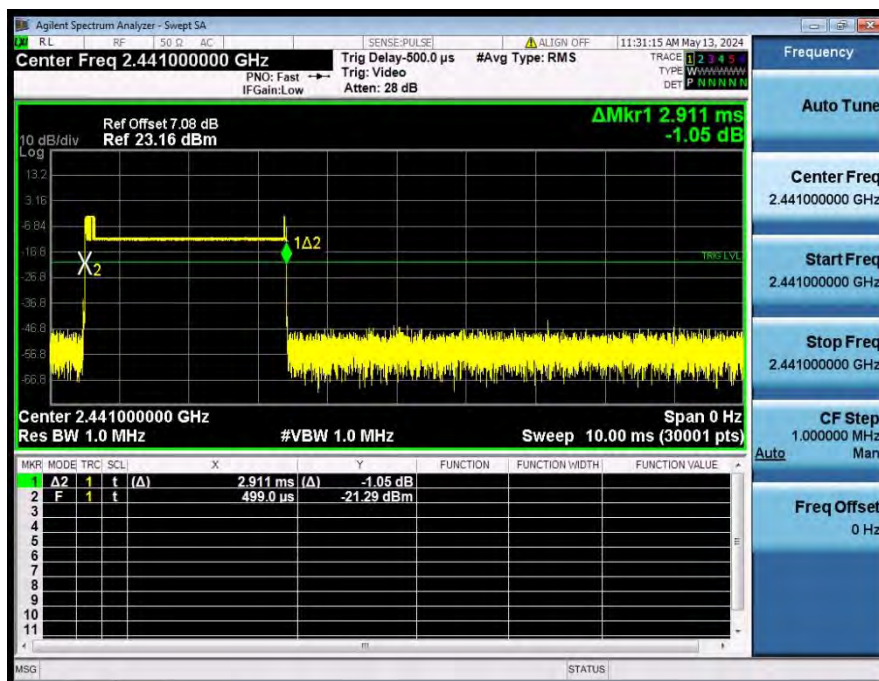
Dwell Time (Hopping) NVNT ANT1 2-DH3 2441 One Burst Time



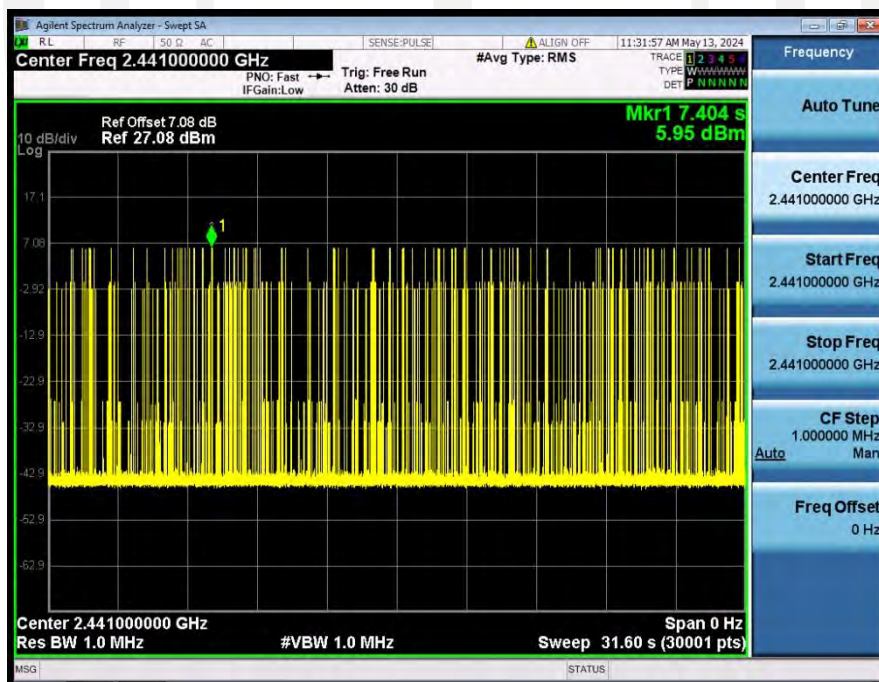
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH3_2441_Accumulated



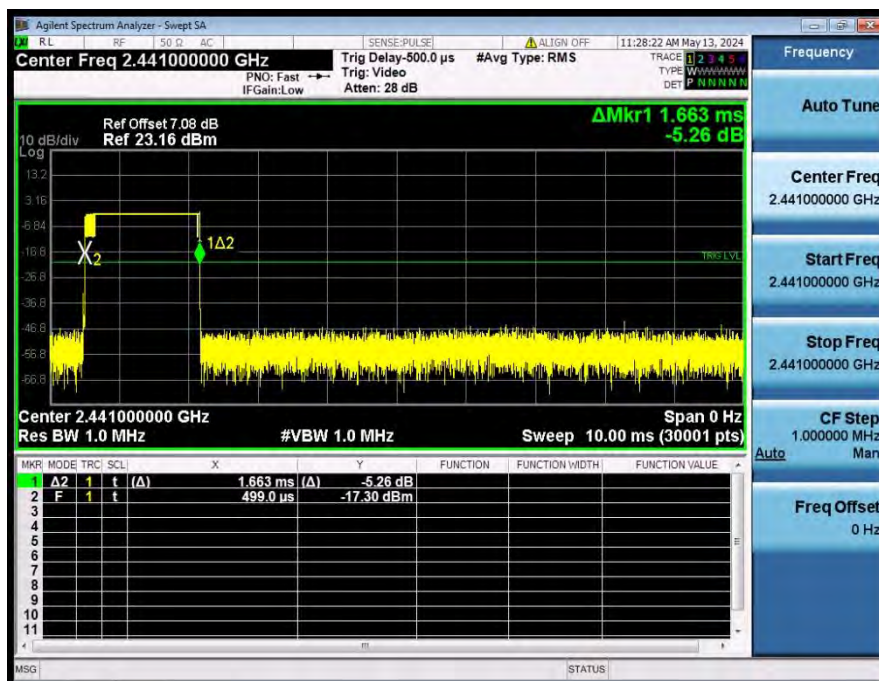
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH5_2441_One_Burst_Time



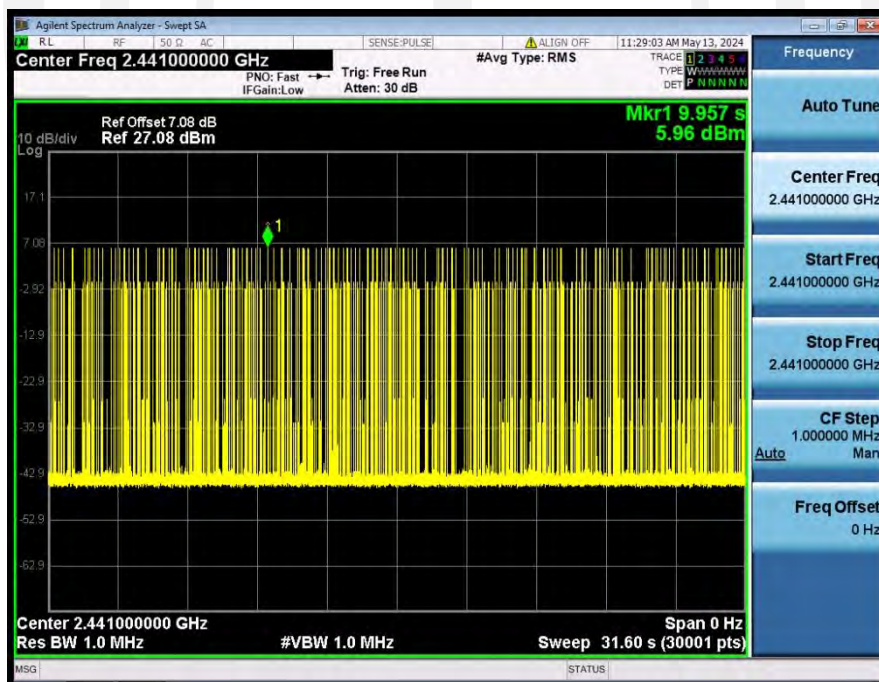
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH5_2441_Accumulated



Dwell_Time_(Hopping)_NVNT_ANT1_3-DH3_2441_One_Burst_Time



Dwell_Time_(Hopping)_NVNT_ANT1_3-DH3_2441_Accumulated



Dwell Time (Hopping)_NVNT_ANT1_3-DH5_2441_One_Burst_Time

Agilent Spectrum Analyzer - Sweet SA
RL RE SQ Q AC SENSE:PULSE ALIGN OFF 11:32:16 AM May 13, 2024

Center Freq 2.441000000 GHz Trig Delay: 500.0 μ s #Avg Type: RMS
PNO: Fast IFGain: Low Trig: Video Atten: 28 dB TRACE 1 2 3 4 5 TYPE W W W W W W W W DET P N N N N N

Ref Offset 7.08 dB Δ Mkr1 2.911 ms
Ref 23.16 dBm -13.09 dB

10 dB/div Log
-66.8 -56.8 -46.8 -36.8 -26.8 -16.8 -6.84 3.16 13.2

X₂ 1 Δ 2 TRIG LVL

Center 2.441000000 GHz Span 0 Hz
Res BW 1.0 MHz #VBW 1.0 MHz Sweep 10.00 ms (30001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ 2	t	(Δ)	2.911 ms	-13.09 dB			
2	F	t		499.0 μ s	-14.64 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

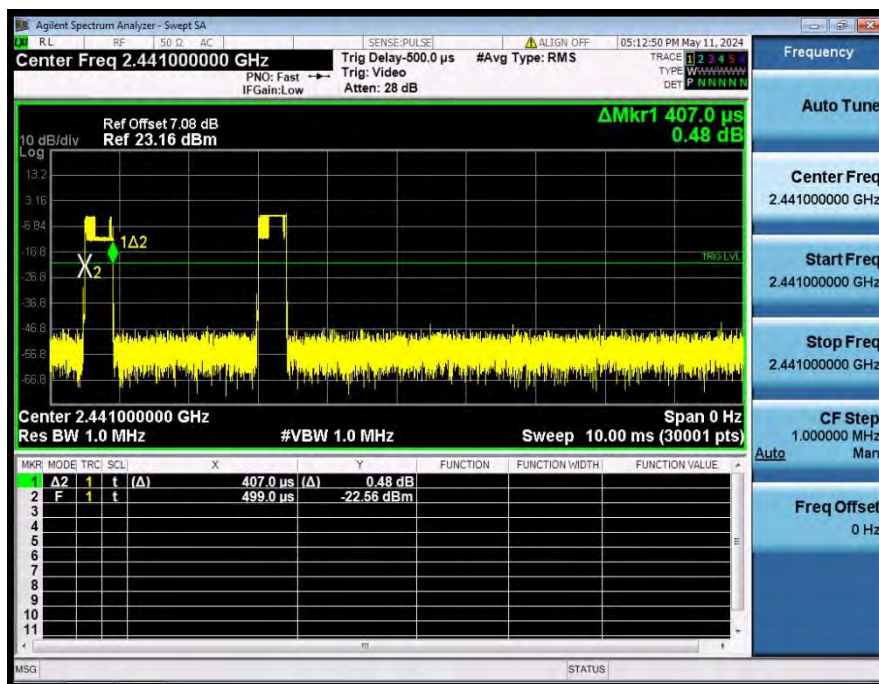
Frequency
Auto Tune
Center Freq 2.441000000 GHz
Start Freq 2.441000000 GHz
Stop Freq 2.441000000 GHz
CF Step 1.000000 MHz Man
Freq Offset 0 Hz

The screenshot displays an Agilent Spectrum Analyzer interface. The main plot shows a signal at 2.441 GHz with a span of 0 Hz and a resolution bandwidth (Res BW) of 1.0 MHz. A green marker is placed at 1.825 MHz, indicating a frequency offset of 5.96 dBm. The plot also shows a reference offset of 7.08 dB and a reference level of 27.08 dBm. The signal is measured using a PNO: Fast IF Gain: Low and a Trig: Free Run mode. The average type is set to RMS. The right side of the screen features a control panel with buttons for Frequency, Auto Tune, Center Freq, Start Freq, Stop Freq, CF Step, Freq Offset, and other settings.

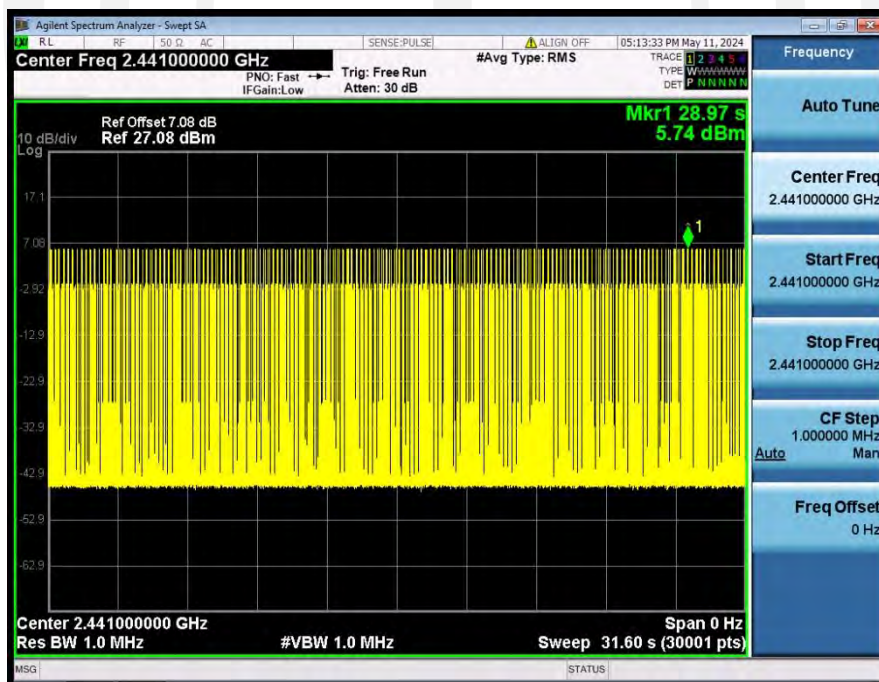
Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT2	1-DH1	0.407	320.00	130.240	0.40	Pass
NVNT	ANT2	2-DH1	0.407	320.00	130.240	0.40	Pass
NVNT	ANT2	3-DH1	0.407	319.00	129.833	0.40	Pass
NVNT	ANT2	1-DH3	1.663	150.00	249.450	0.40	Pass
NVNT	ANT2	1-DH5	2.911	112.00	326.032	0.40	Pass
NVNT	ANT2	2-DH3	1.663	159.00	264.417	0.40	Pass
NVNT	ANT2	2-DH5	2.911	114.00	331.854	0.40	Pass
NVNT	ANT2	3-DH3	1.663	148.00	246.124	0.40	Pass
NVNT	ANT2	3-DH5	2.911	112.00	326.032	0.40	Pass



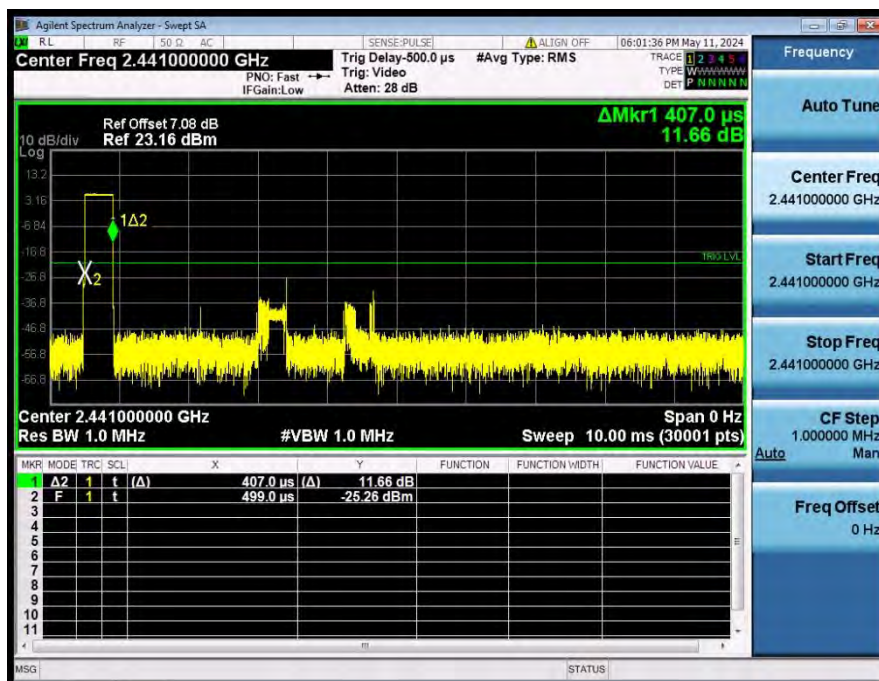
Dwell_Time_(Hopping)_NVNT_ANT2_1-DH1_2441_One_Burst_Time



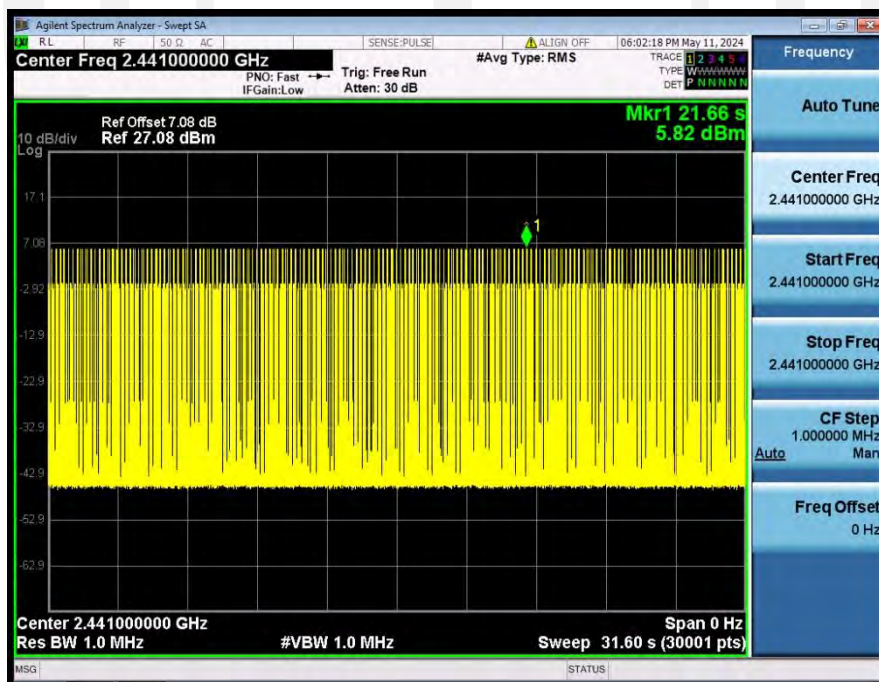
Dwell_Time_(Hopping)_NVNT_ANT2_1-DH1_2441_Accumulated



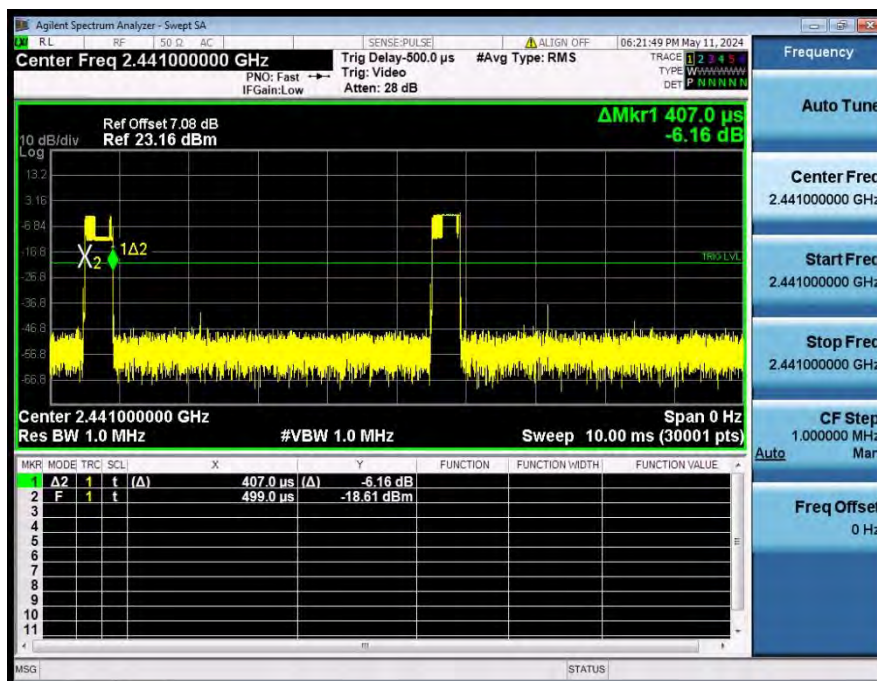
Dwell_Time_(Hopping)_NVNT_ANT2_2-DH1_2441_One_Burst_Time



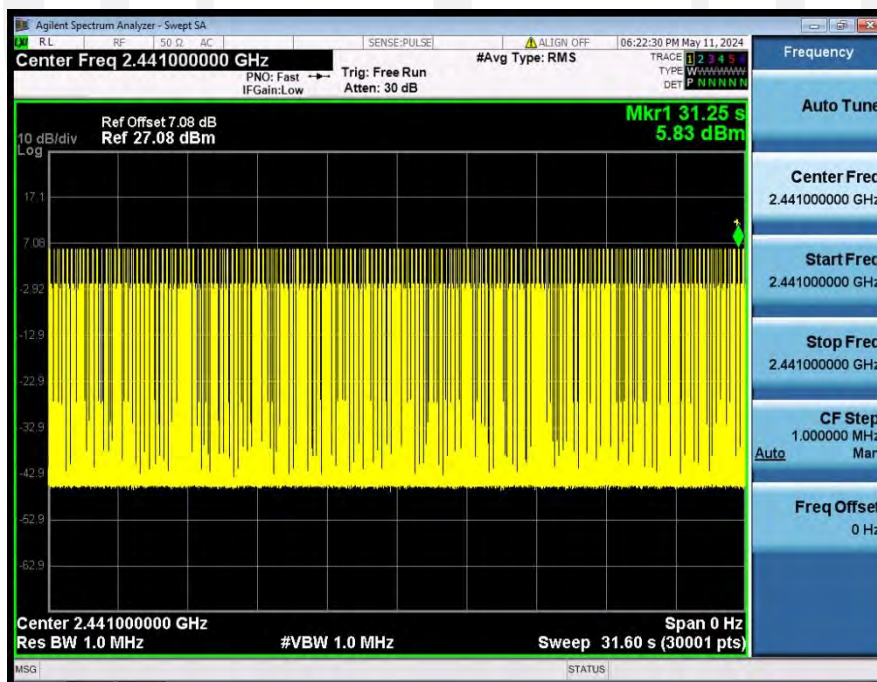
Dwell_Time_(Hopping)_NVNT_ANT2_2-DH1_2441_Accumulated



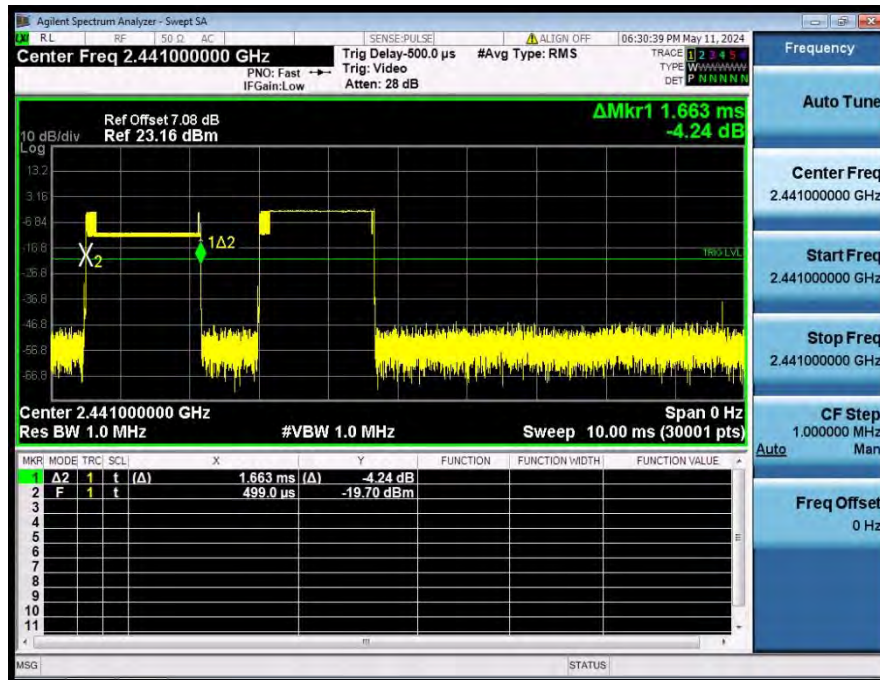
Dwell_Time_(Hopping)_NVNT_ANT2_3-DH1_2441_One_Burst_Time



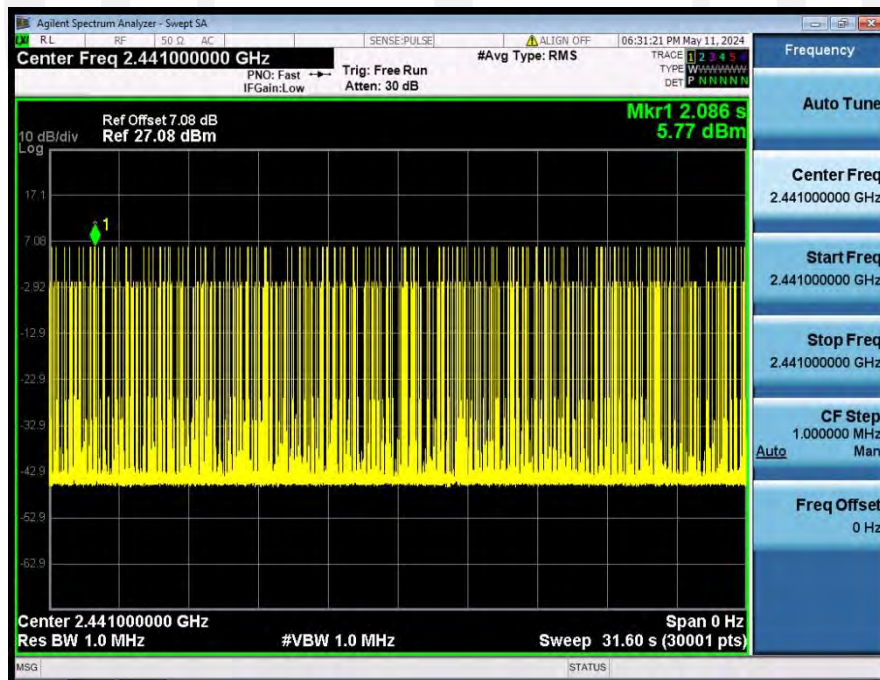
Dwell_Time_(Hopping)_NVNT_ANT2_3-DH1_2441_Accumulated



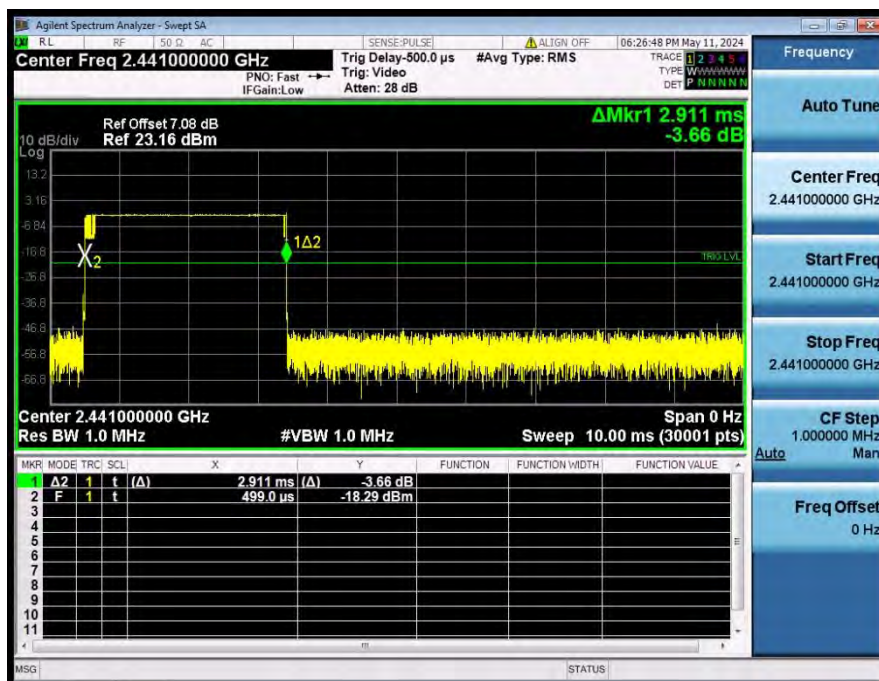
Dwell_Time_(Hopping)_NVNT_ANT2_1-DH3_2441_One_Burst_Time



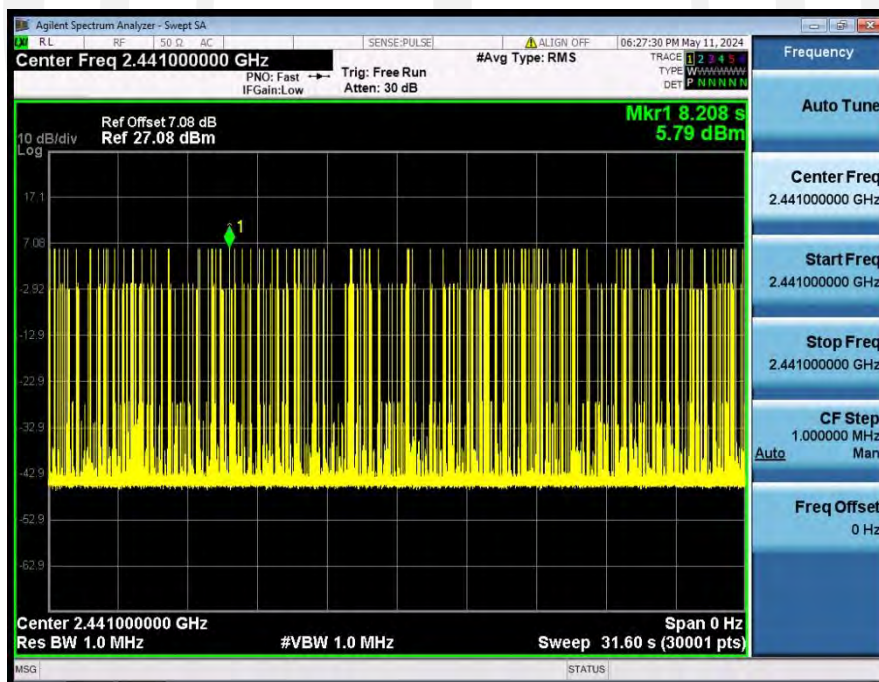
Dwell_Time_(Hopping)_NVNT_ANT2_1-DH3_2441_Accumulated



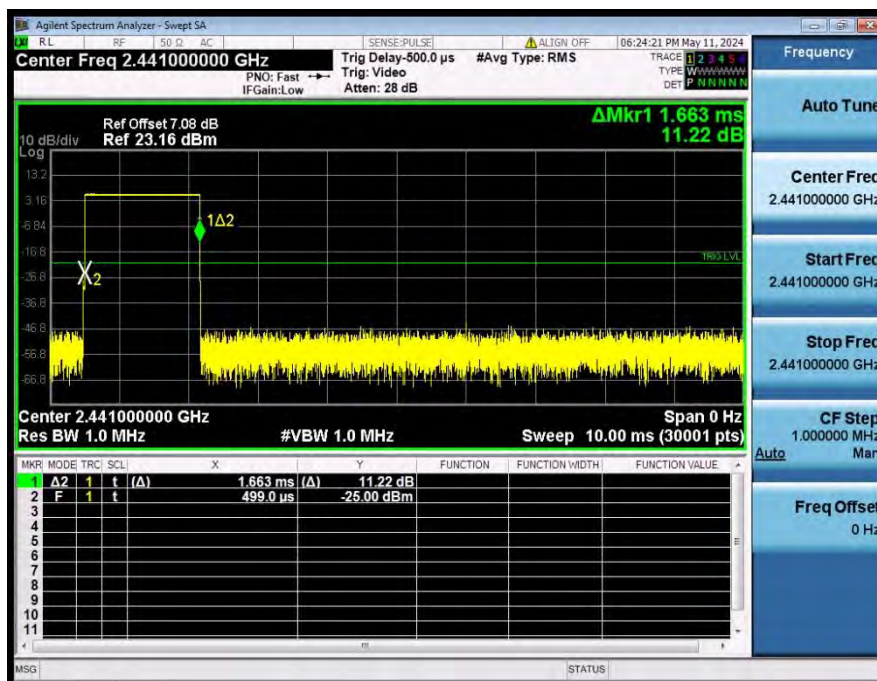
Dwell Time (Hopping) NVNT ANT2 1-DH5 2441 One Burst Time



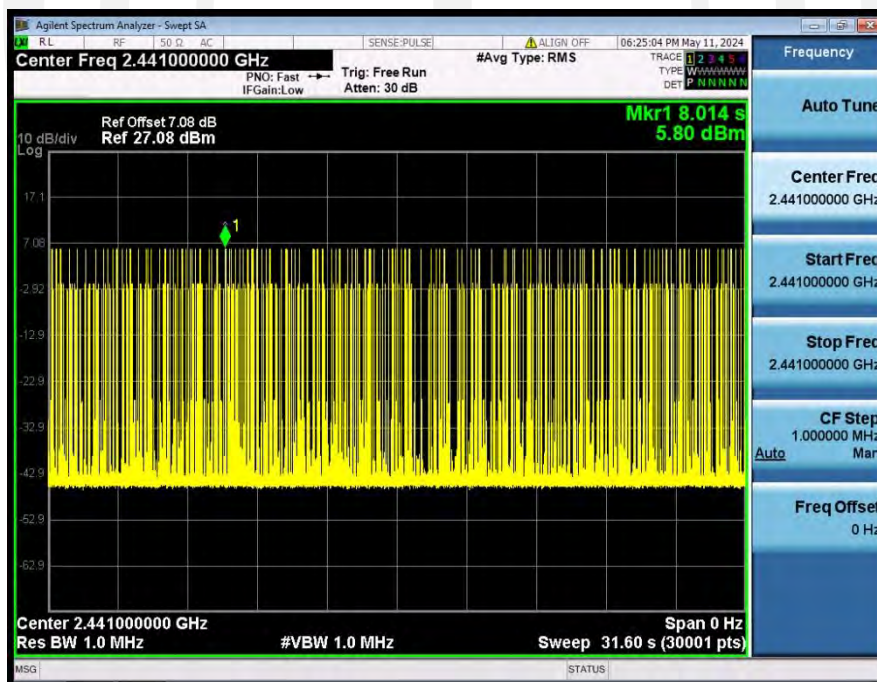
Dwell_Time_(Hopping)_NVNT_ANT2_1-DH5_2441_Accumulated



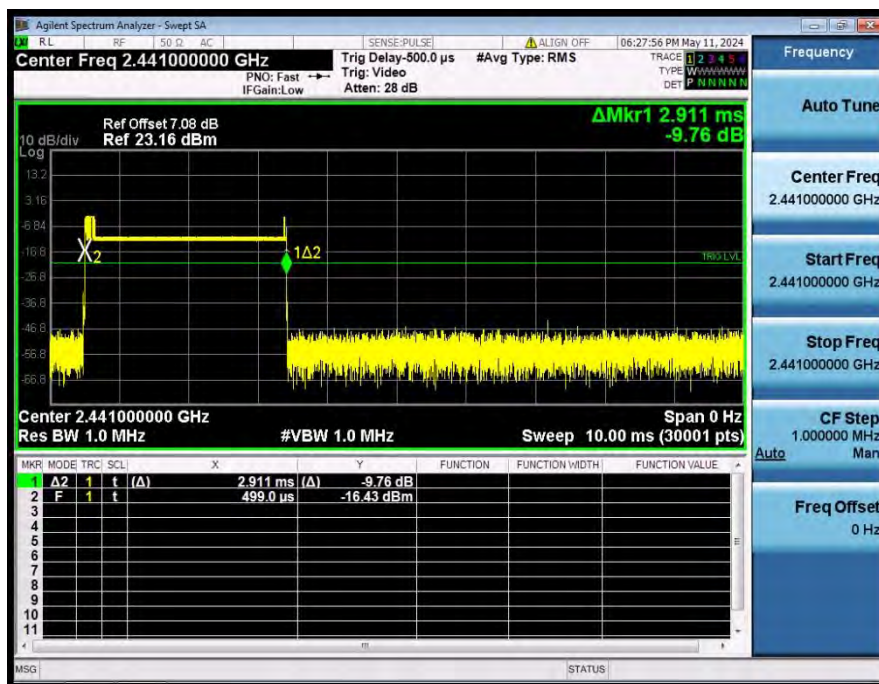
Dwell_Time_(Hopping)_NVNT_ANT2_2-DH3_2441_One_Burst_Time



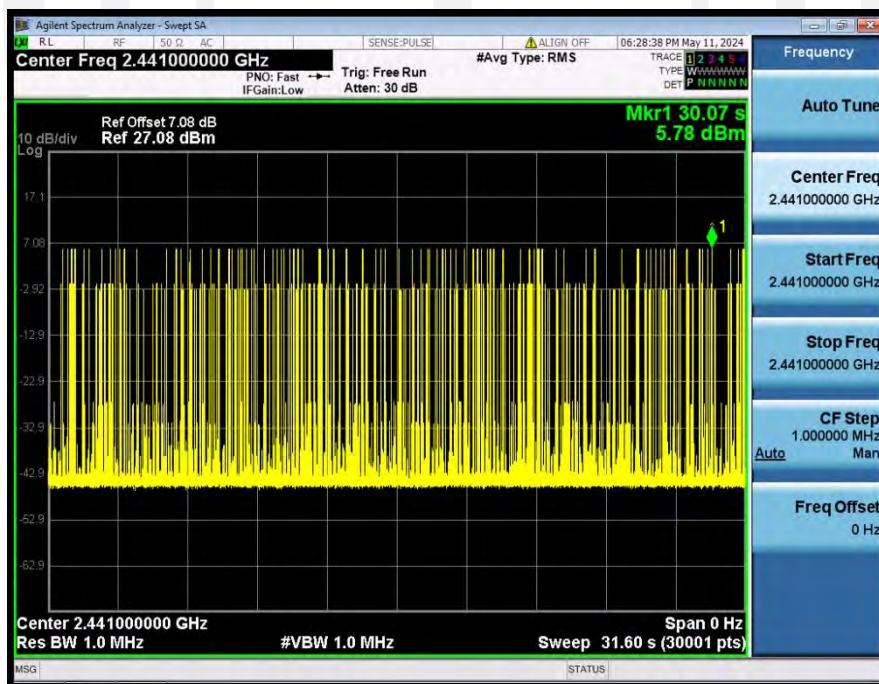
Dwell_Time_(Hopping)_NVNT_ANT2_2-DH3_2441_Accumulated



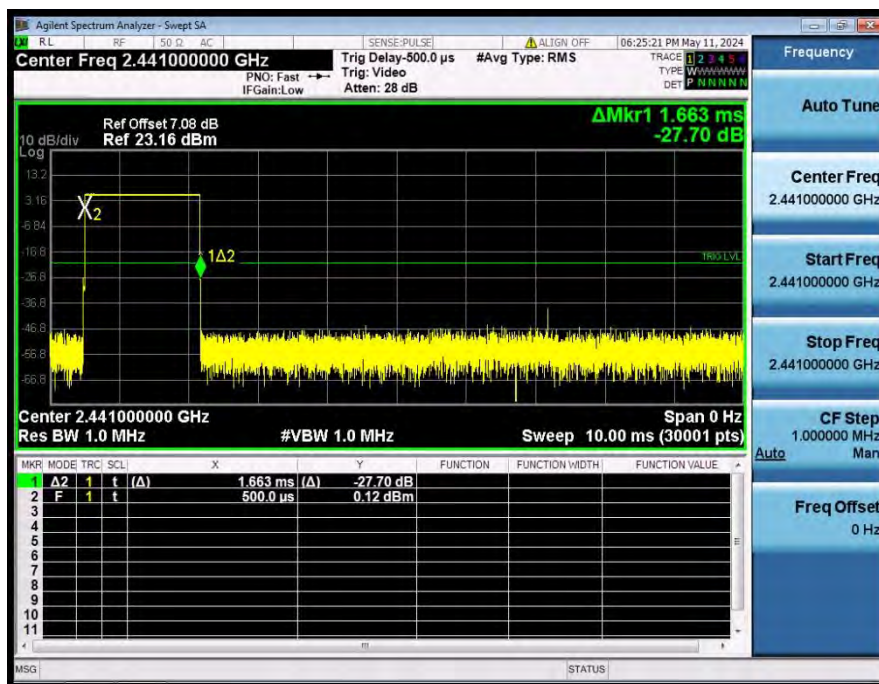
Dwell_Time_(Hopping)_NVNT_ANT2_2-DH5_2441_One_Burst_Time



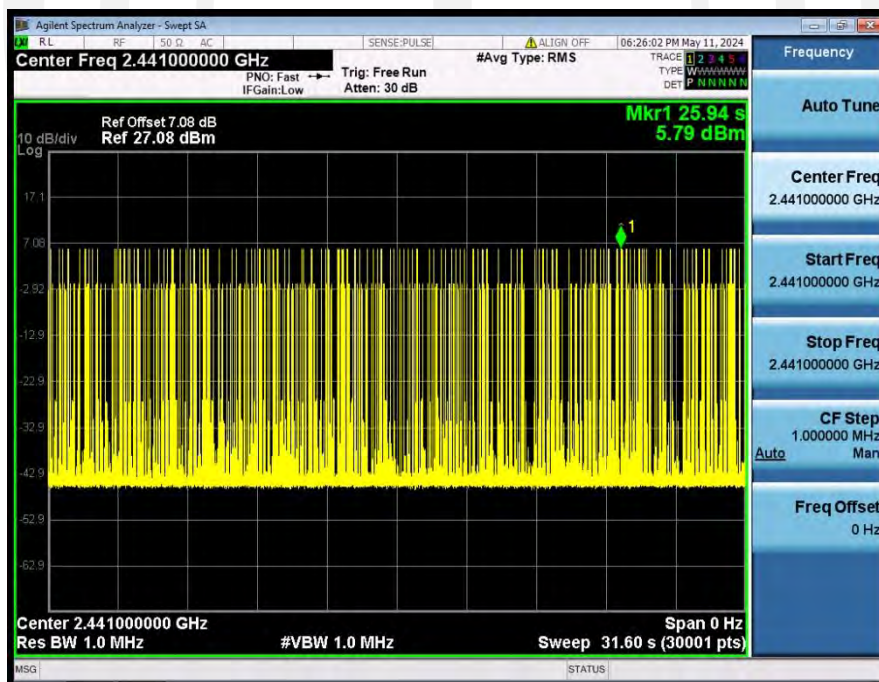
Dwell_Time_(Hopping)_NVNT_ANT2_2-DH5_2441_Accumulated



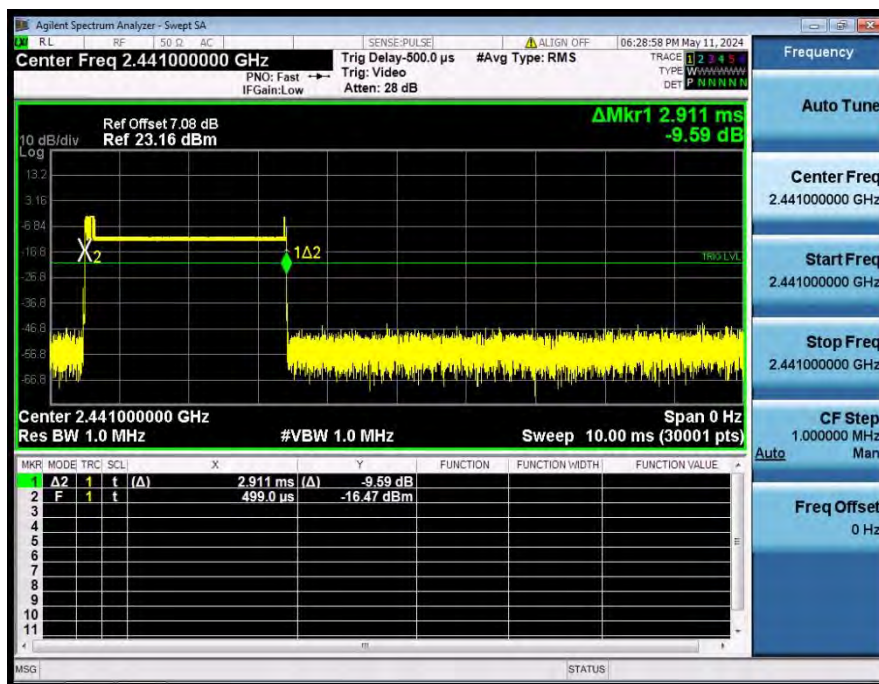
Dwell_Time_(Hopping)_NVNT_ANT2_3-DH3_2441_One_Burst_Time



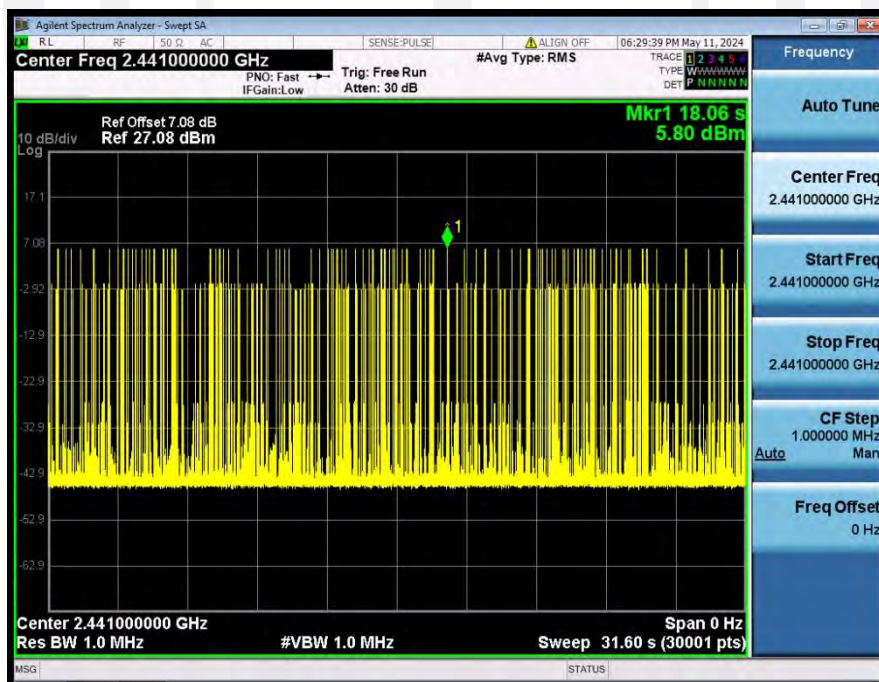
Dwell_Time_(Hopping)_NVNT_ANT2_3-DH3_2441_Accumulated



Dwell_Time_(Hopping)_NVNT_ANT2_3-DH5_2441_One_Burst_Time



Dwell_Time_(Hopping)_NVNT_ANT2_3-DH5_2441_Accumulated



8. Out-of-band Emissions

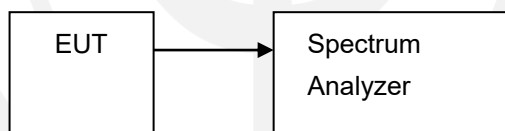
8.1. Test Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in FCC Part 15.209(a) is not required.

8.2. Test Procedure

Connect the transmitter output to spectrum analyzer using a low loss RF cable, and set the spectrum analyzer to RBW=100 kHz, VBW= 300 kHz, peak detector, and max hold. Measurements utilizing these settings are made of the in-band reference level, band edge and out-of-band emissions.

8.3. Test Setup



8.4. Test Results

PASS.

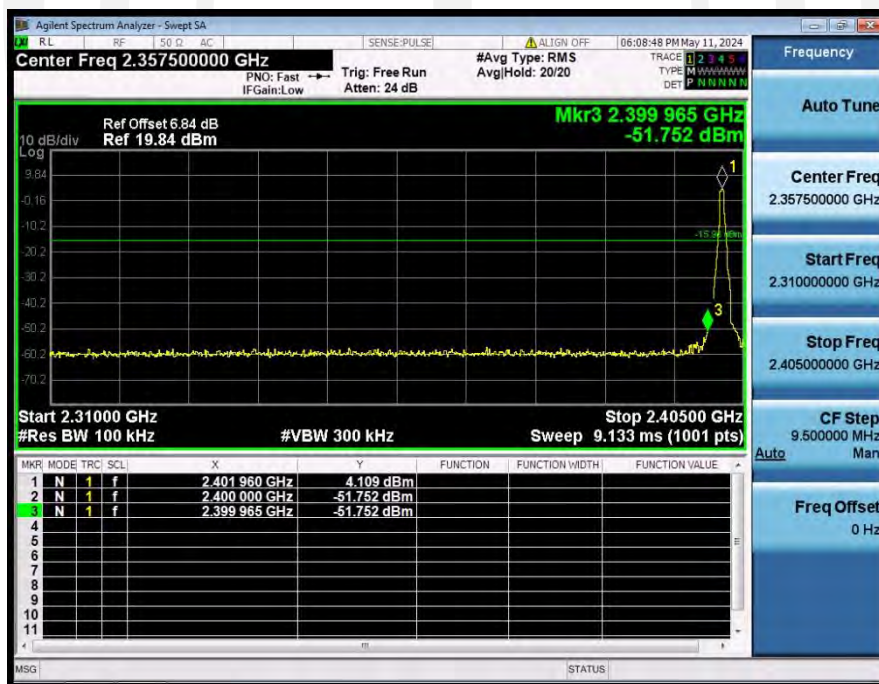
The test results are listed in next pages.

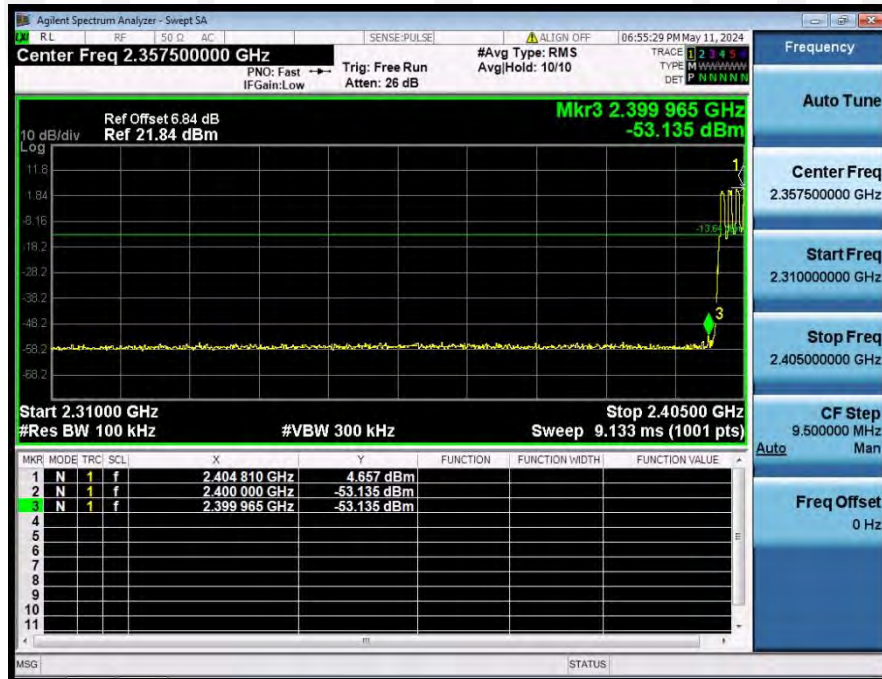
Band Edge: Pass

1_Reference_Level_NVNT_ANT1_1-DH1_2402



2_Bandedge_NVNT_ANT1_1-DH1_2402

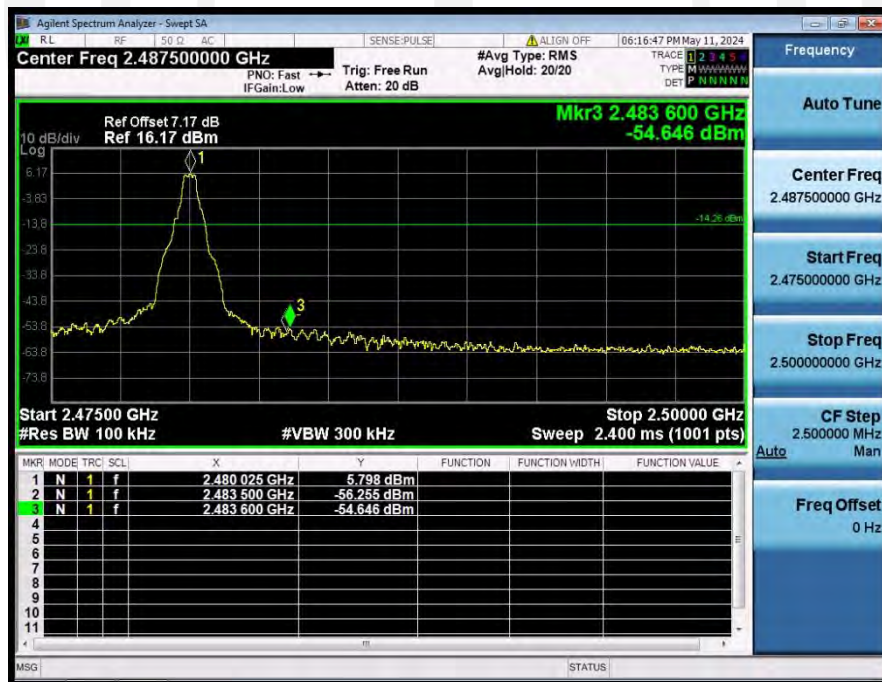


1_Reference_Level_Hopping_NVNT_ANT1_1-DH1_Hopping**2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH1_Hopping**

1_Reference_Level_NVNT_ANT1_1-DH1_2480



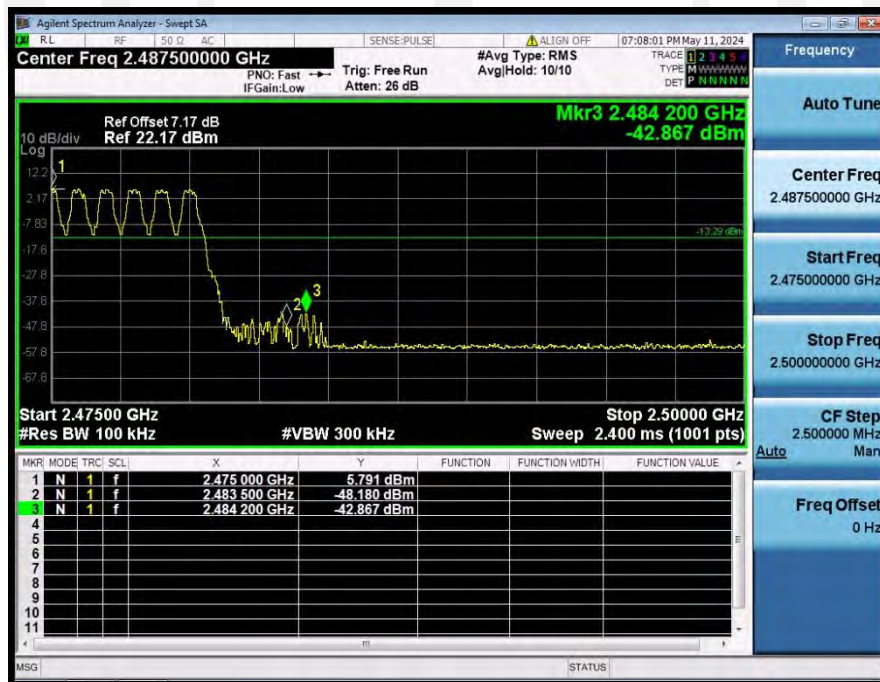
2_Bandedge_NVNT_ANT1_1-DH1_2480



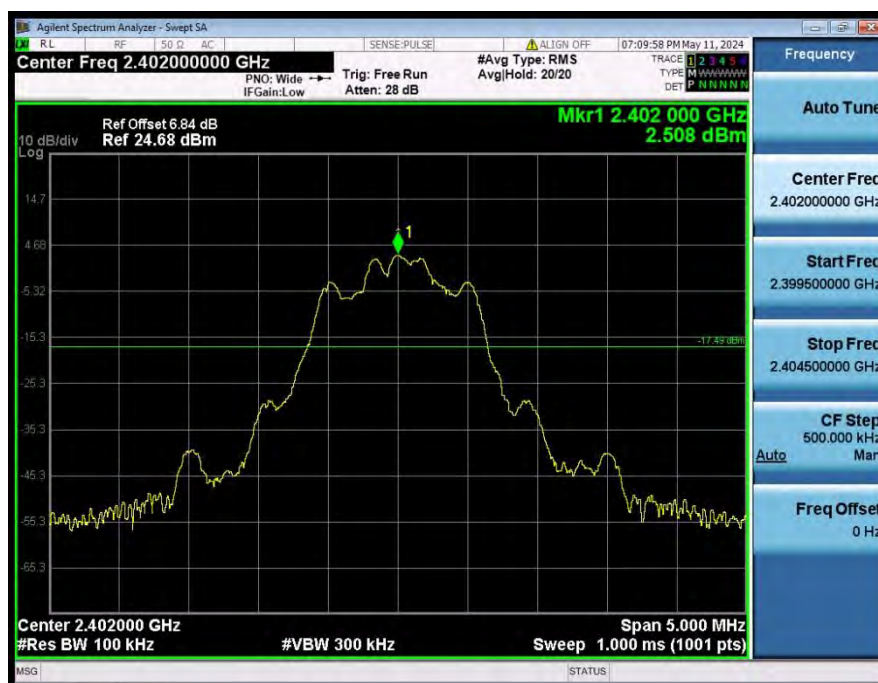
1_Reference_Level_Hopping_NVNT_ANT1_1-DH1_Hopping



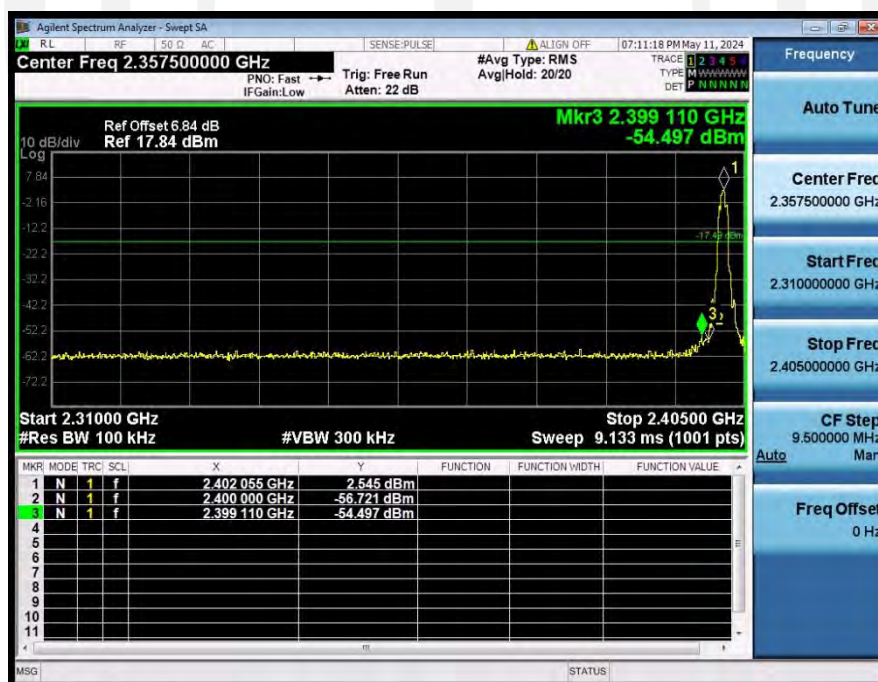
2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH1_Hopping



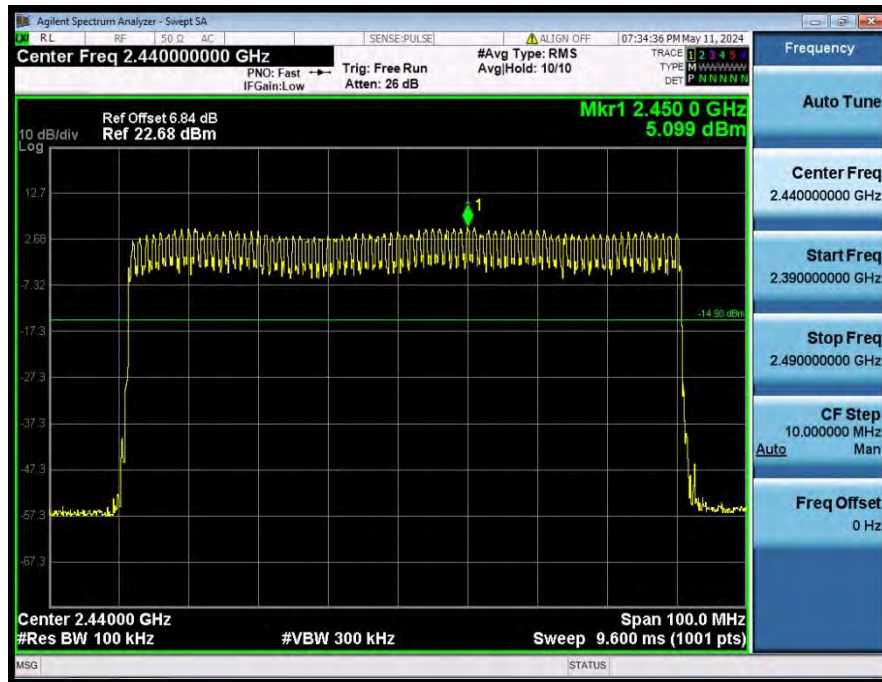
1_Reference_Level_NVNT_ANT1_2-DH1_2402



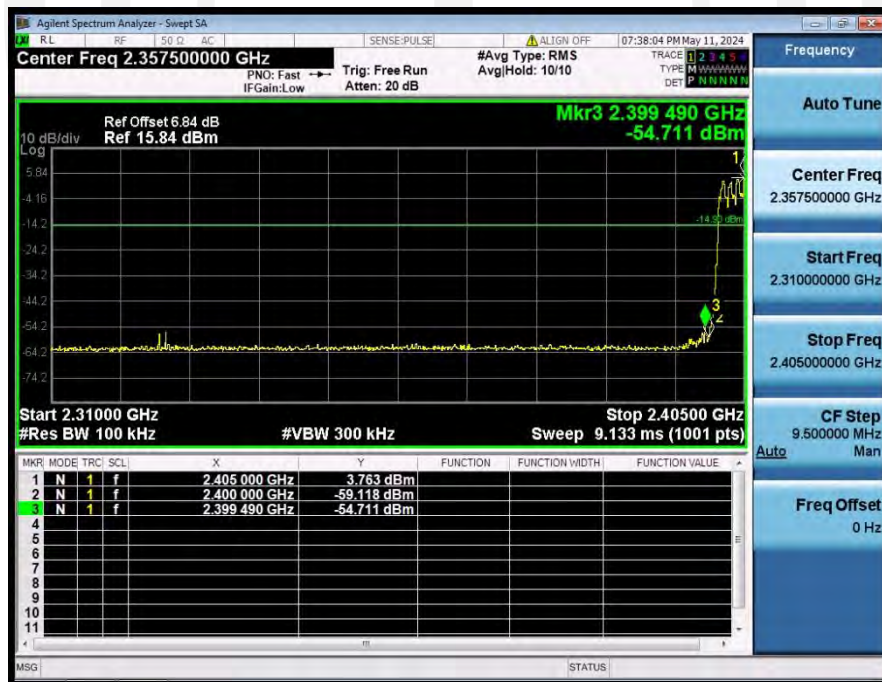
2_Bandedge_NVNT_ANT1_2-DH1_2402



1_Reference_Level_Hopping_NVNT_ANT1_2-DH1_Hopping



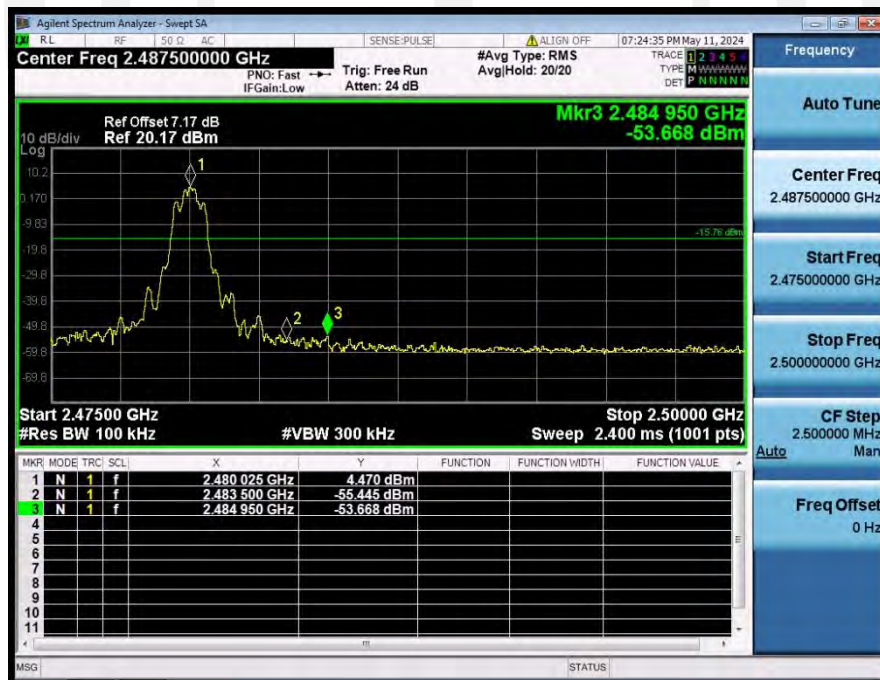
2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH1_Hopping



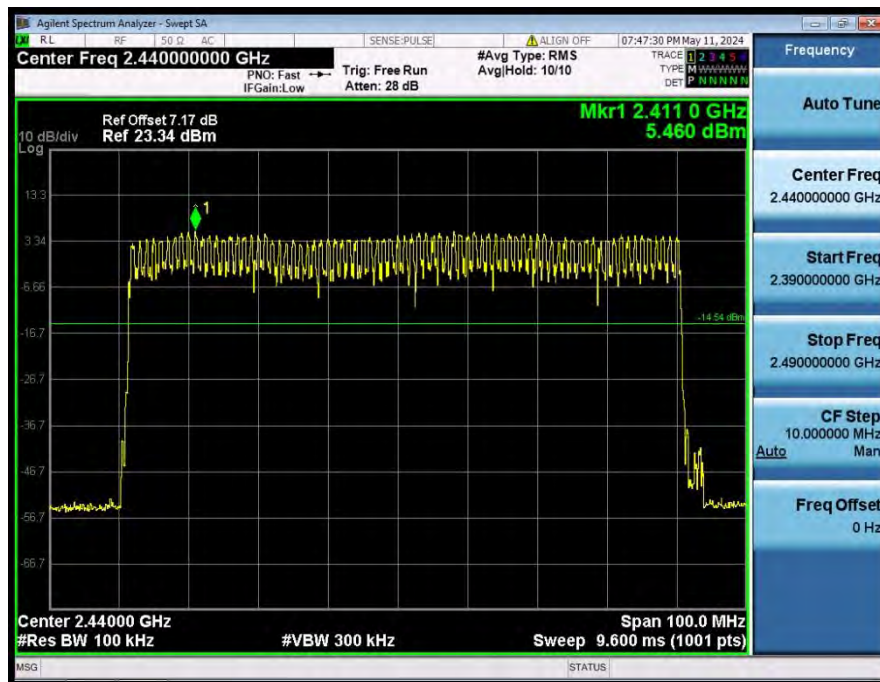
1_Reference_Level_NVNT_ANT1_2-DH1_2480



2_Bandedge_NVNT_ANT1_2-DH1_2480



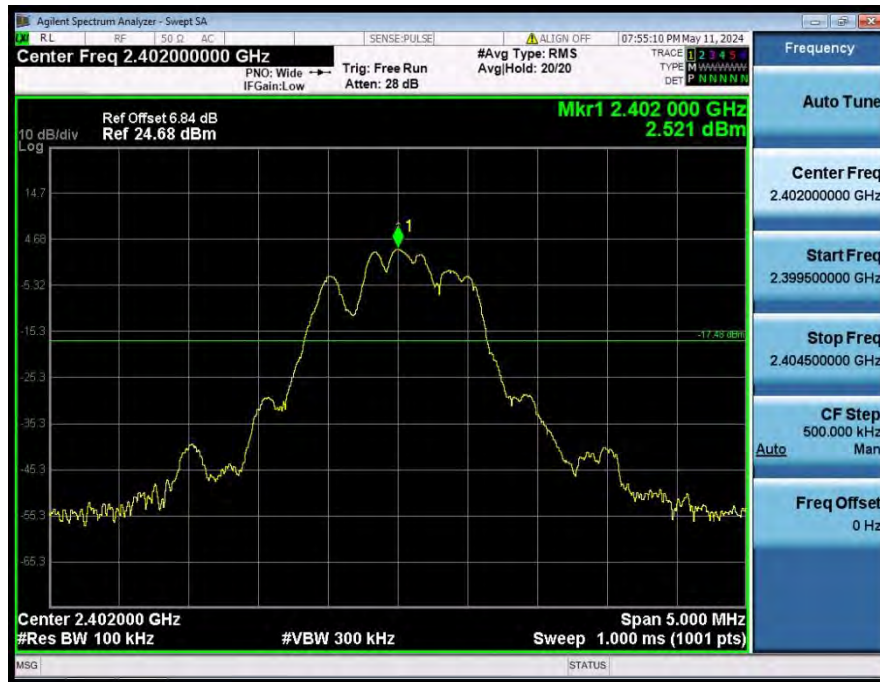
1_Reference_Level_Hopping_NVNT_ANT1_2-DH1_Hopping



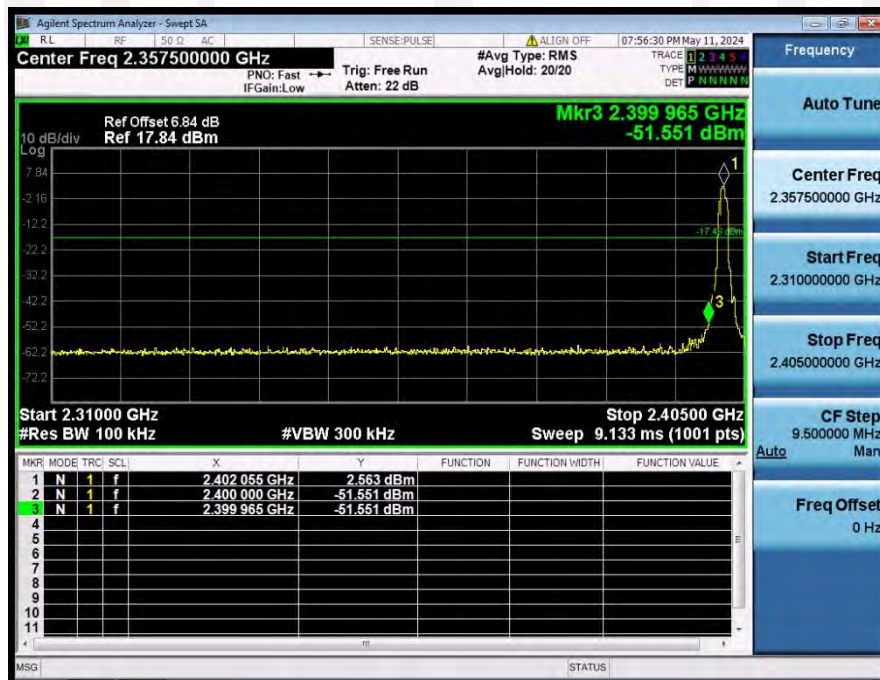
2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH1_Hopping

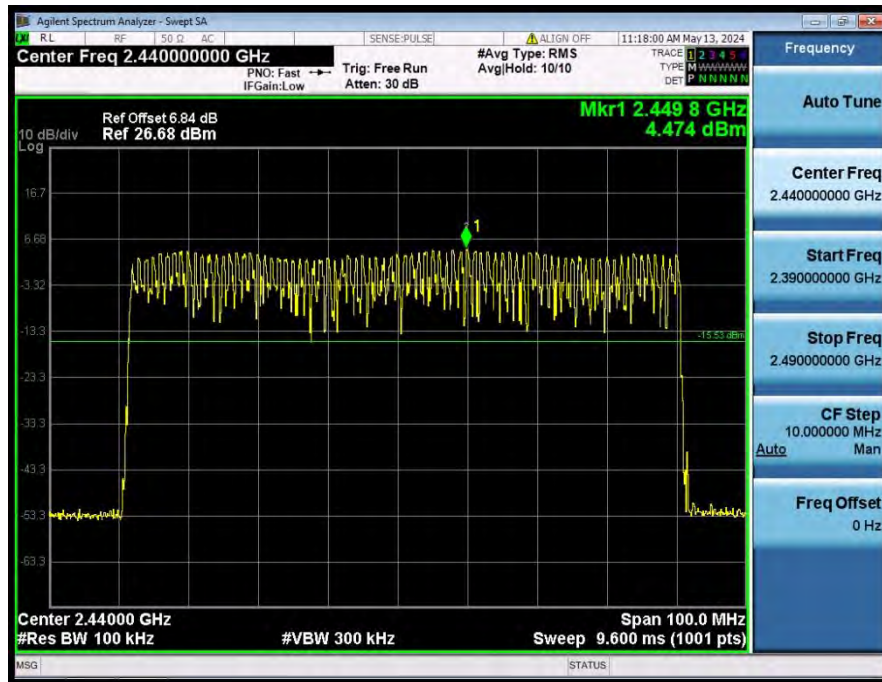


1_Reference_Level_NVNT_ANT1_3-DH1_2402



2_Bandedge_NVNT_ANT1_3-DH1_2402



1_Reference_Level_Hopping_NVNT_ANT1_3-DH1_Hopping**2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH1_Hopping**