Table of Contents

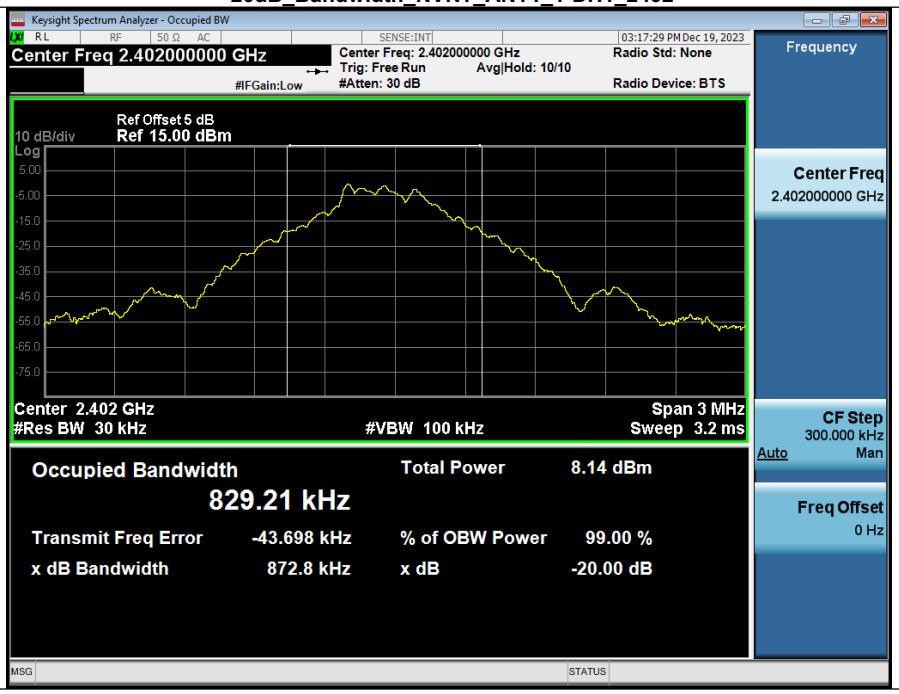
1. -20dB Bandwidth 2
2. 99% Occupied Bandwidth 7
3. Peak Output Power 12
4. Spurious Emissions 17
5. Bandedge 26
6. Carrier Frequencies Separation (Hopping) 39
7. Number of Hopping Channel (Hopping) 44
8. Dwell Time (Hopping) 46

FCC ID EDR
FCC_BT (Part15.247) Test Data

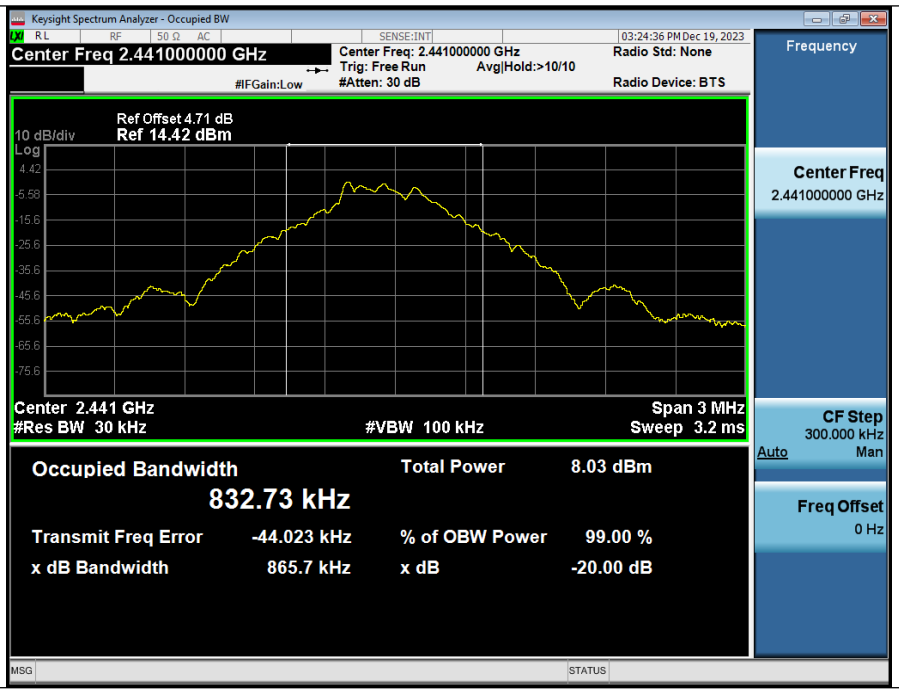
1. -20dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH1	2402.00	0.873	No
NVNT	ANT1	1-DH1	2441.00	0.866	No
NVNT	ANT1	1-DH1	2480.00	1.075	Yes
NVNT	ANT1	2-DH1	2402.00	1.258	Yes
NVNT	ANT1	2-DH1	2441.00	1.253	Yes
NVNT	ANT1	2-DH1	2480.00	1.247	Yes
NVNT	ANT1	3-DH1	2402.00	1.265	Yes
NVNT	ANT1	3-DH1	2441.00	1.290	Yes
NVNT	ANT1	3-DH1	2480.00	1.291	Yes

-20dB_Bandwidth_NVNT_ANT1_1-DH1_2402

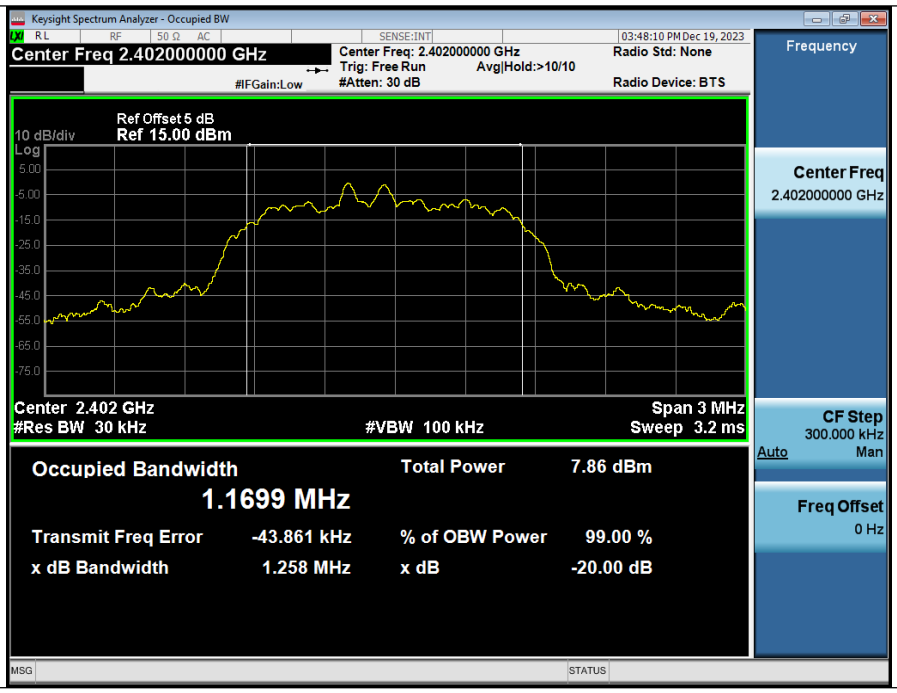


-20dB_Bandwidth_NVNT_ANT1_1-DH1_2441

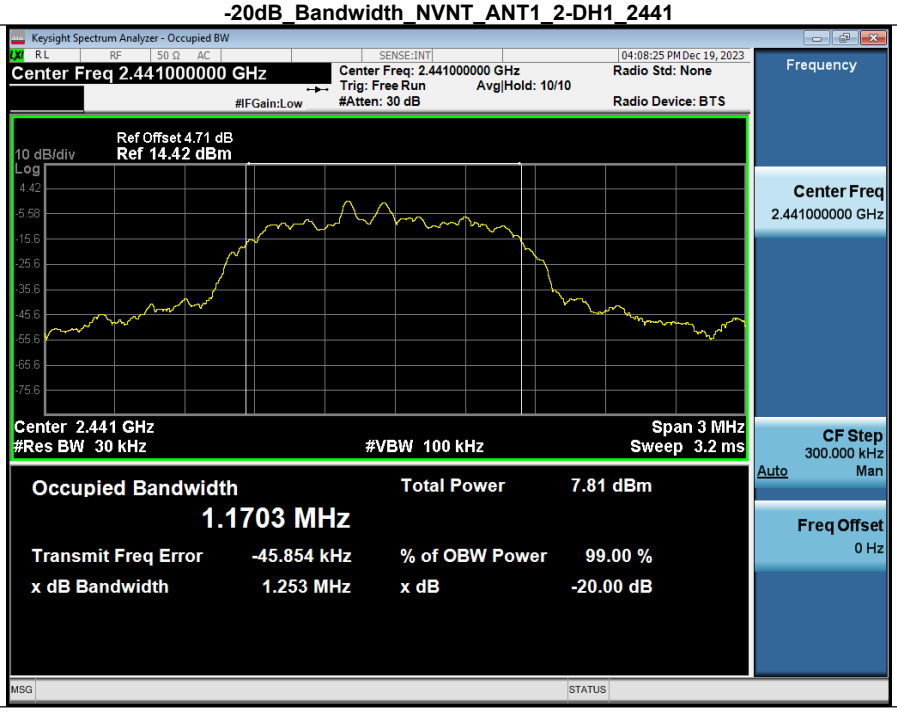


-20dB_Bandwidth_NVNT_ANT1_1-DH1_2480

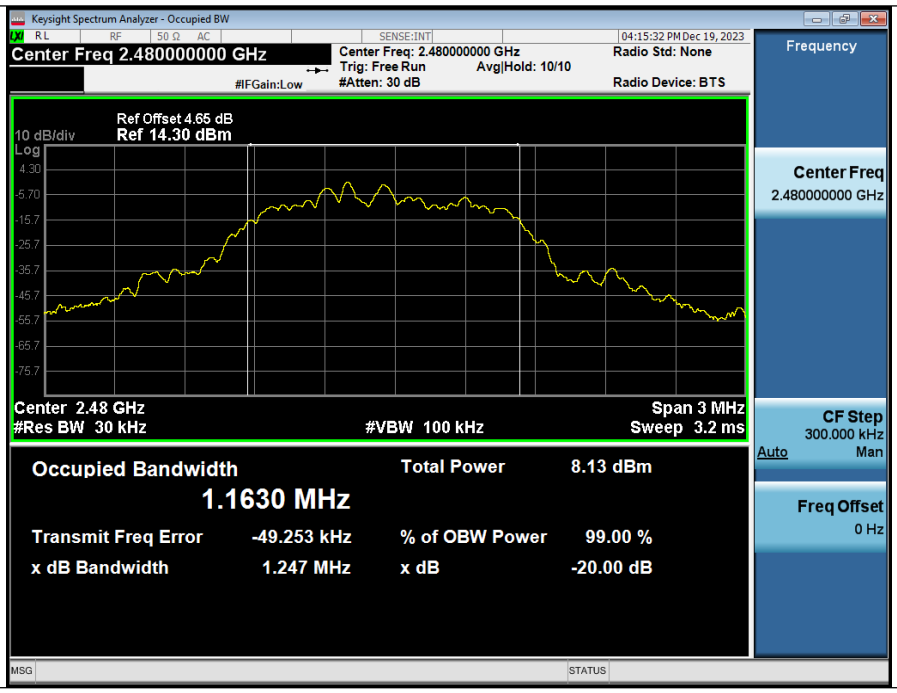
-20dB_Bandwidth_NVNT_ANT1_2-DH1_2402



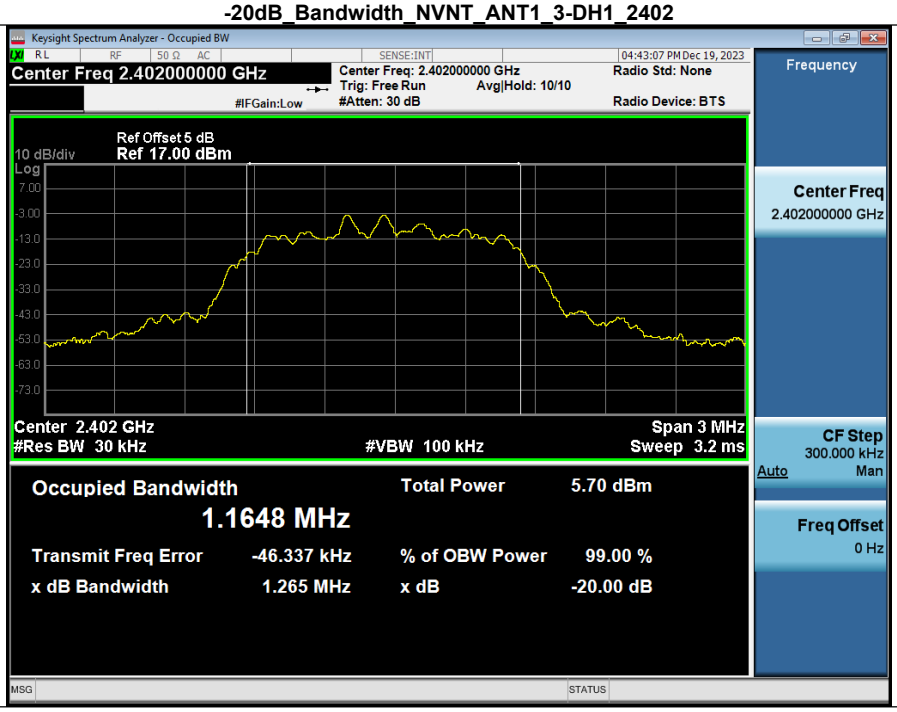
-20dB_Bandwidth_NVNT_ANT1_2-DH1_2441



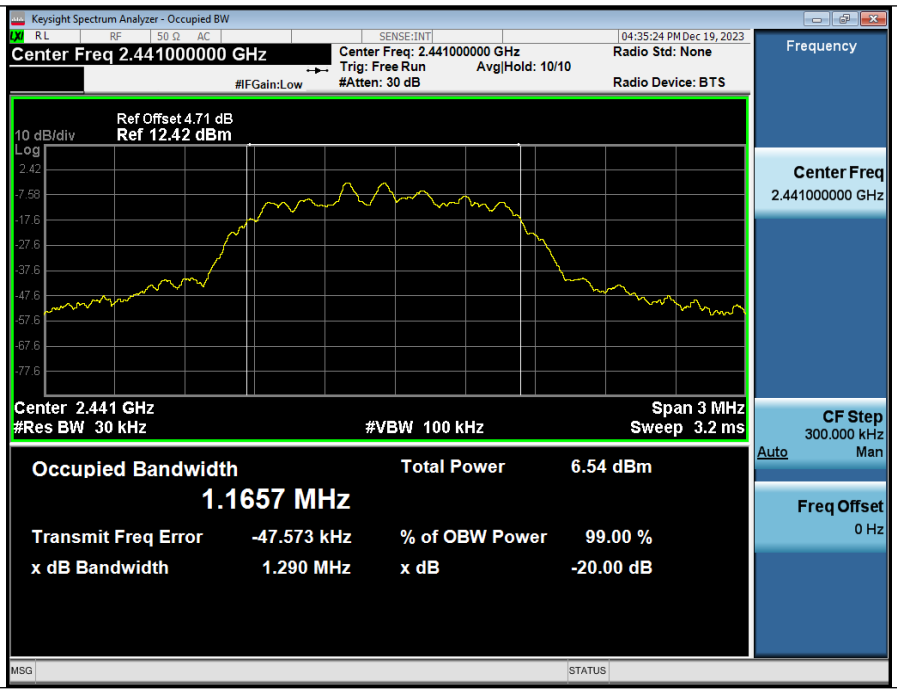
-20dB_Bandwidth_NVNT_ANT1_2-DH1_2480



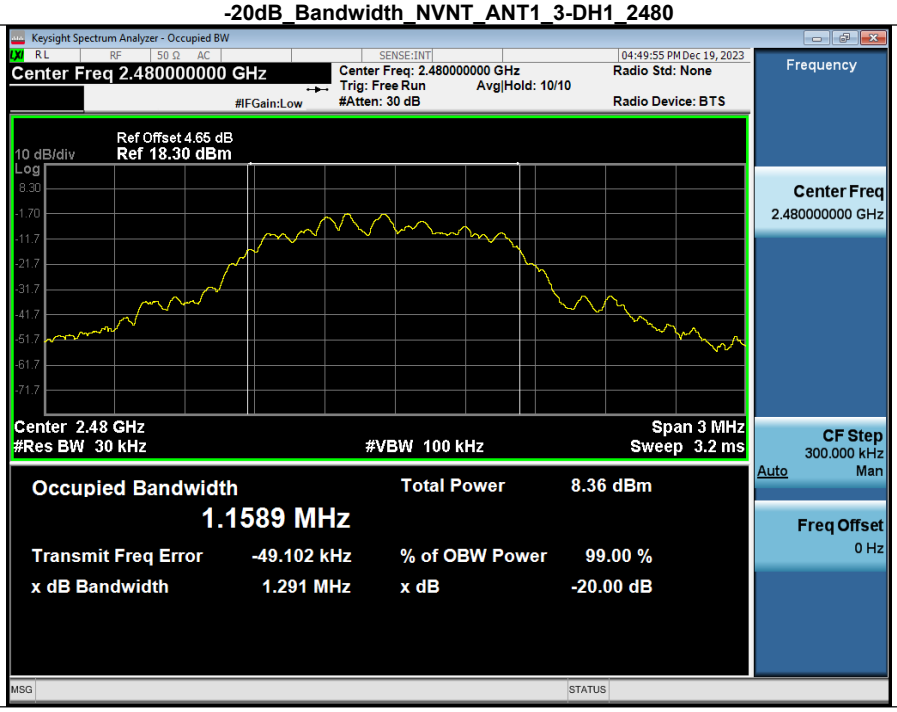
-20dB_Bandwidth_NVNT_ANT1_3-DH1_2402



-20dB_Bandwidth_NVNT_ANT1_3-DH1_2441



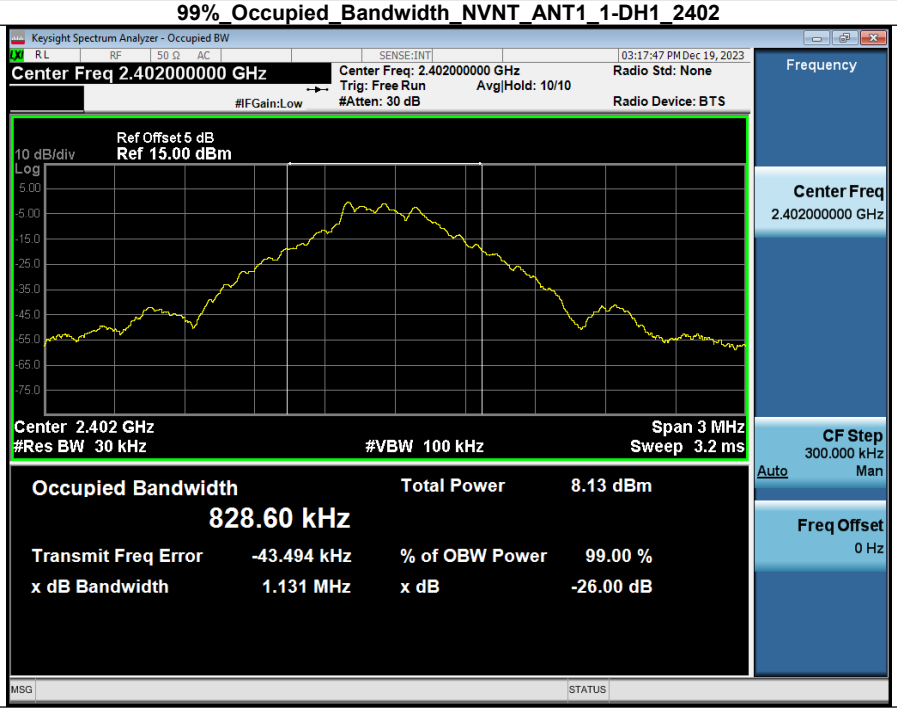
-20dB_Bandwidth_NVNT_ANT1_3-DH1_2480



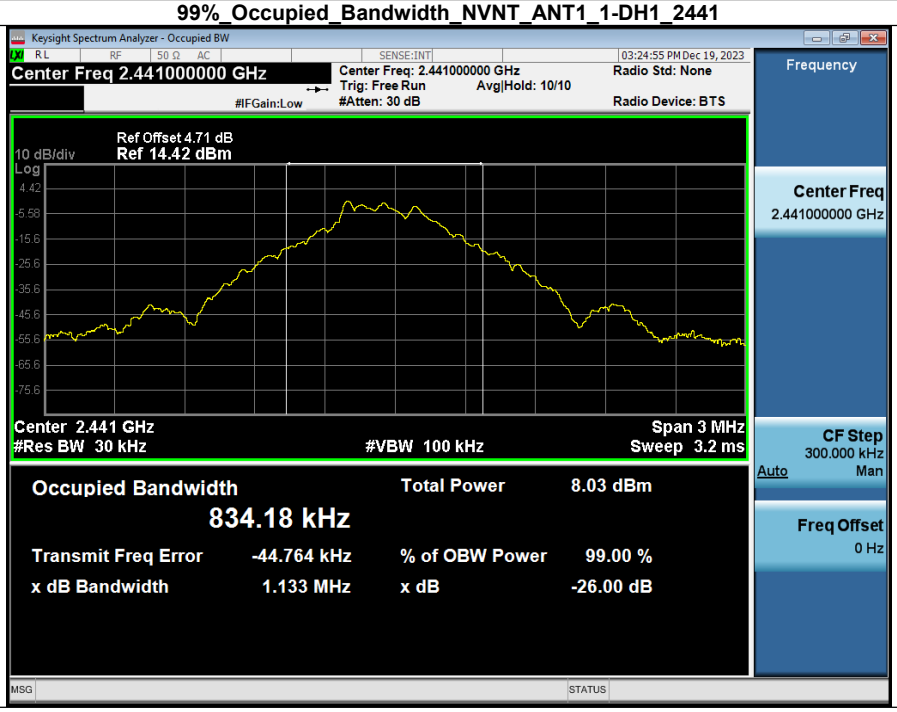
2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	1-DH1	2402.00	0.829
NVNT	ANT1	1-DH1	2441.00	0.834
NVNT	ANT1	1-DH1	2480.00	0.978
NVNT	ANT1	2-DH1	2402.00	1.171
NVNT	ANT1	2-DH1	2441.00	1.170
NVNT	ANT1	2-DH1	2480.00	1.162
NVNT	ANT1	3-DH1	2402.00	1.165
NVNT	ANT1	3-DH1	2441.00	1.165
NVNT	ANT1	3-DH1	2480.00	1.158

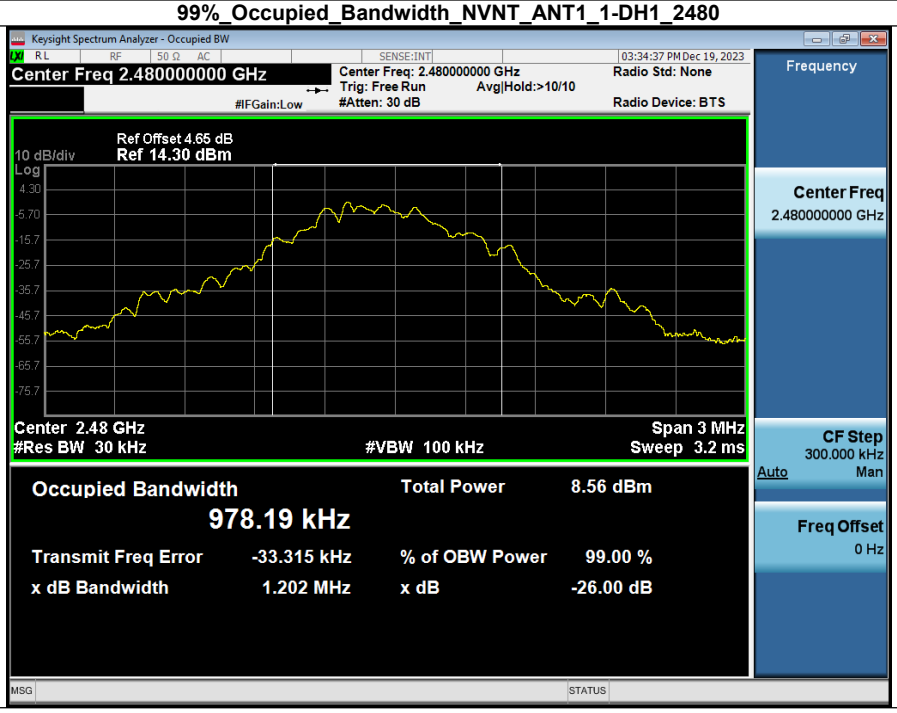
99%_Occupied_Bandwidth_NVNT_ANT1_1-DH1_2402



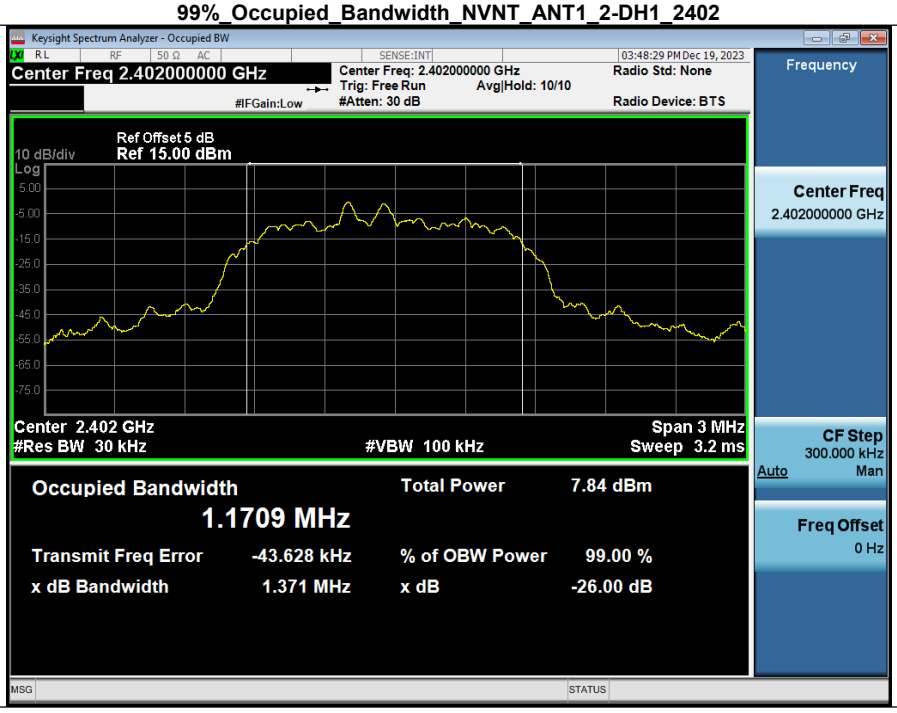
99%_Occupied_Bandwidth_NVNT_ANT1_1-DH1_2441



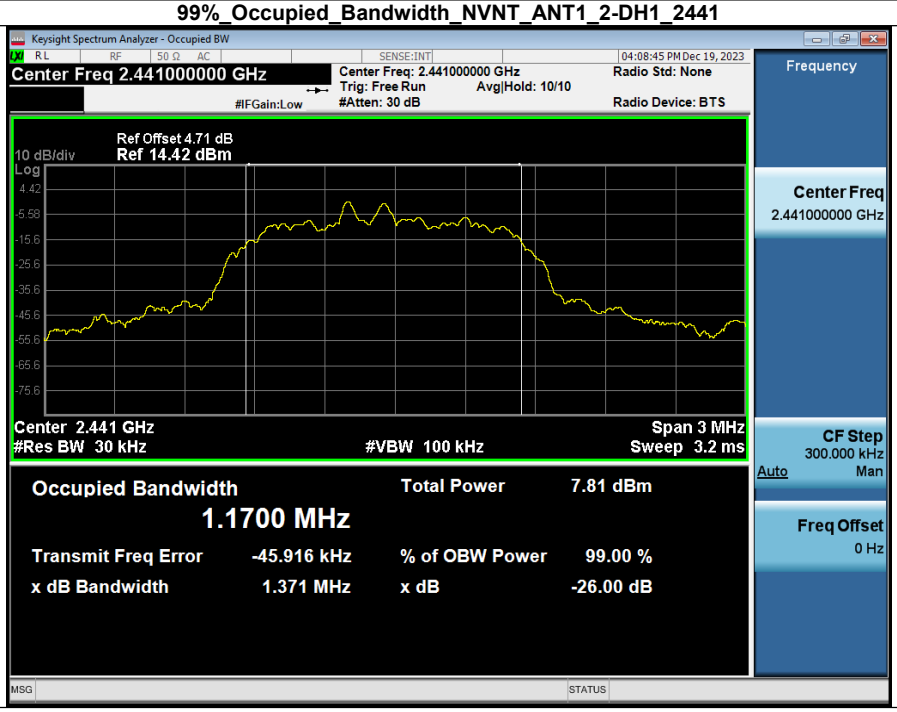
99%_Occupied_Bandwidth_NVNT_ANT1_1-DH1_2480



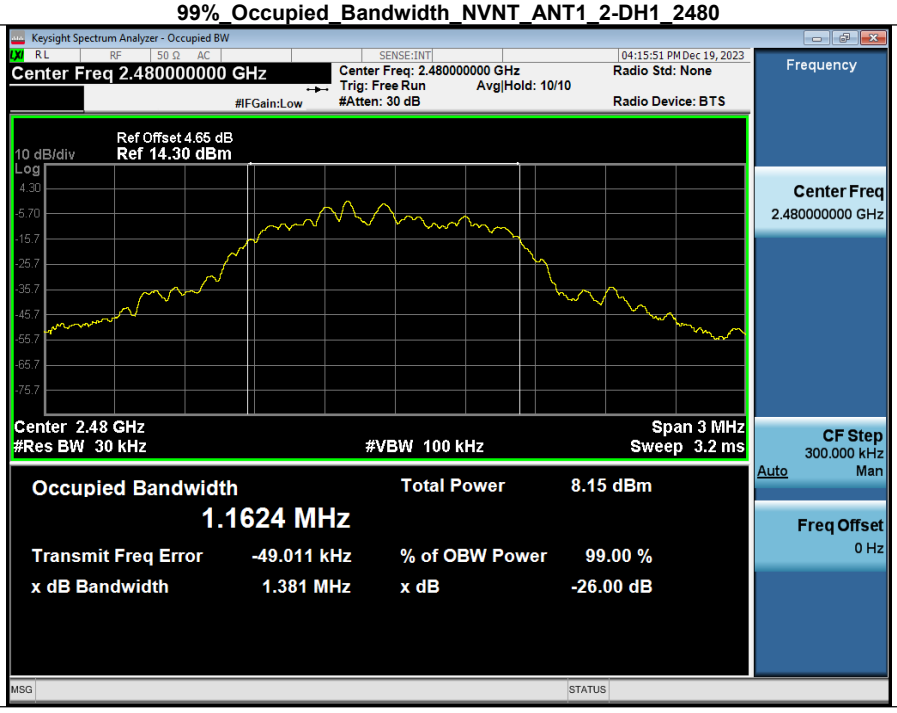
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH1_2402



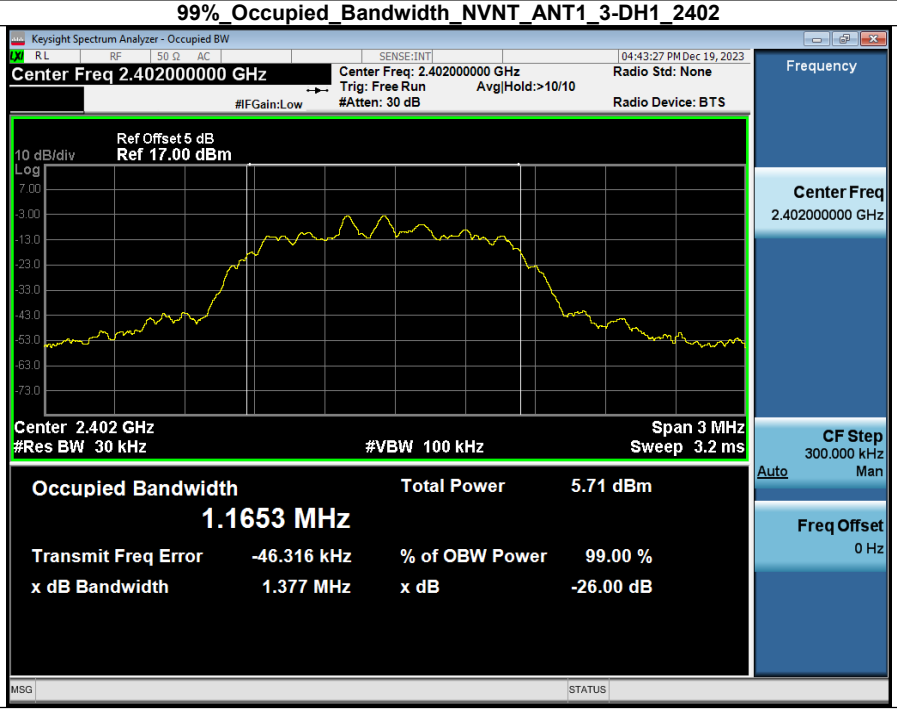
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH1_2441



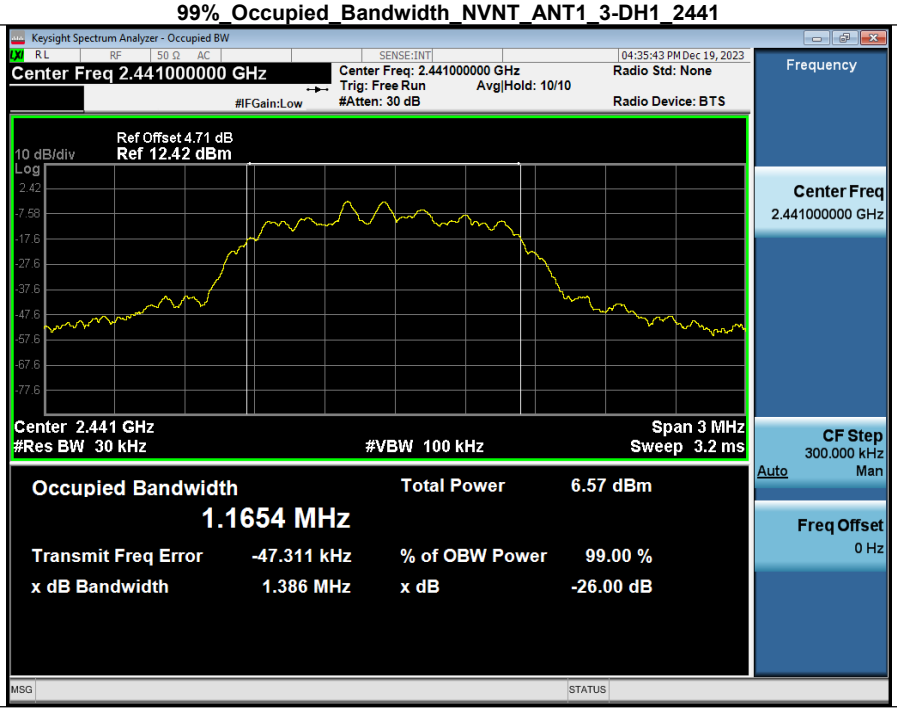
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH1_2480



99%_Occupied_Bandwidth_NVNT_ANT1_3-DH1_2402



99%_Occupied_Bandwidth_NVNT_ANT1_3-DH1_2441

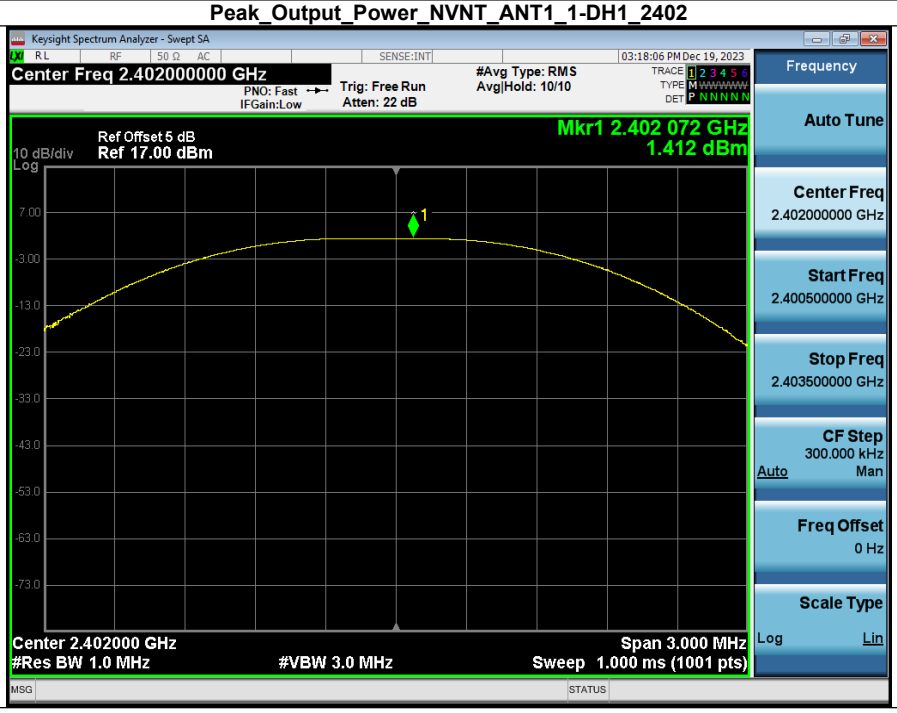


99%_Occupied_Bandwidth_NVNT_ANT1_3-DH1_2480

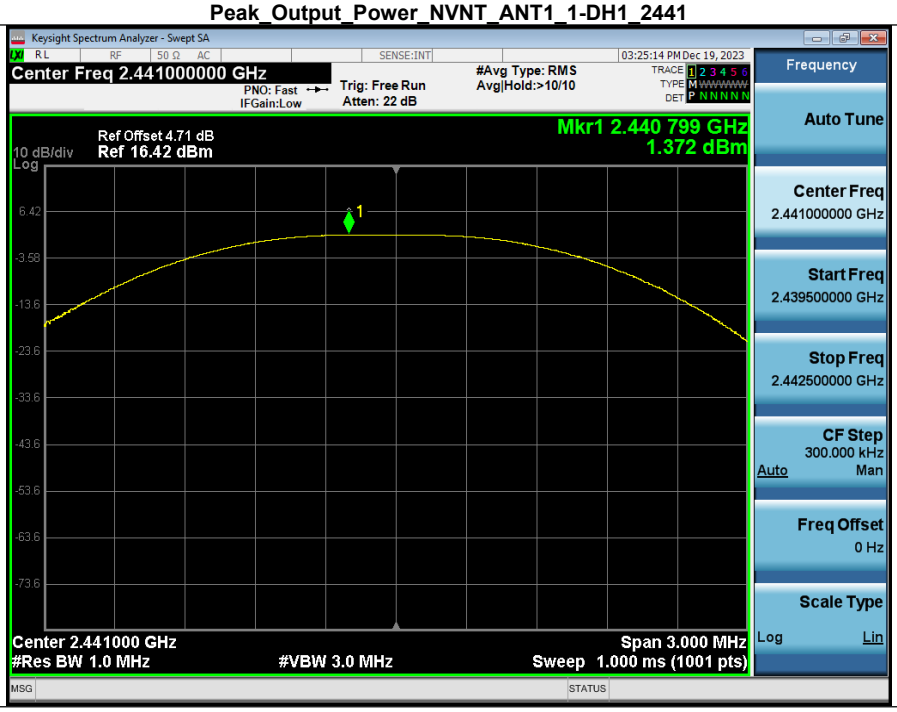
3. Peak Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1-DH1	2402.00	1.41	1.38	1000	Pass
NVNT	ANT1	1-DH1	2441.00	1.37	1.37	1000	Pass
NVNT	ANT1	1-DH1	2480.00	1.15	1.30	125	Pass
NVNT	ANT1	2-DH1	2402.00	2.30	1.70	125	Pass
NVNT	ANT1	2-DH1	2441.00	2.40	1.74	125	Pass
NVNT	ANT1	2-DH1	2480.00	1.89	1.55	125	Pass
NVNT	ANT1	3-DH1	2402.00	-0.07	0.98	125	Pass
NVNT	ANT1	3-DH1	2441.00	0.72	1.18	125	Pass
NVNT	ANT1	3-DH1	2480.00	1.83	1.52	125	Pass

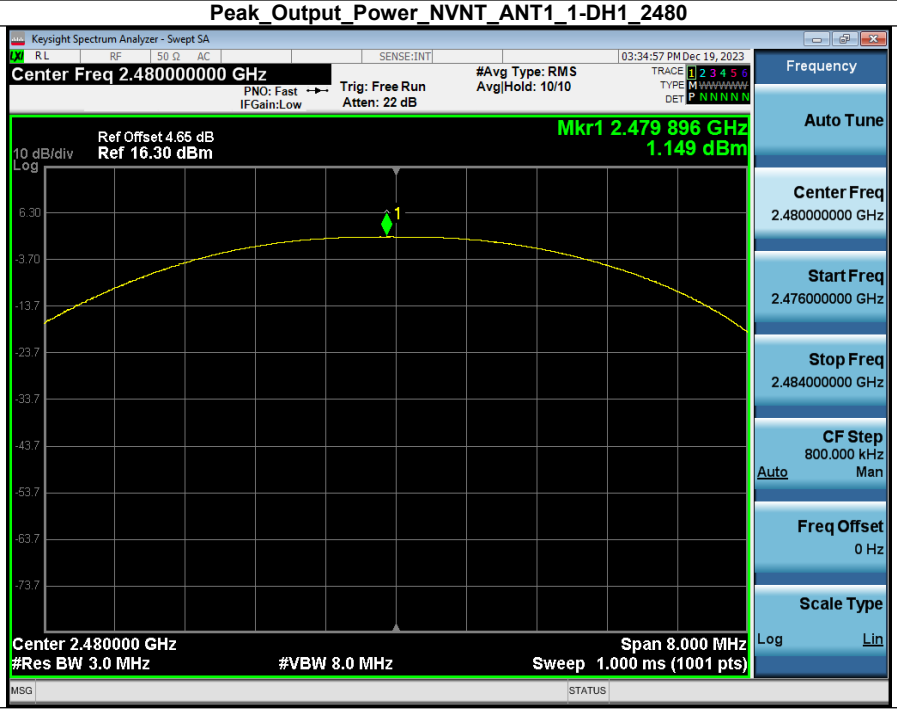
Peak_Output_Power_NVNT_ANT1_1-DH1_2402



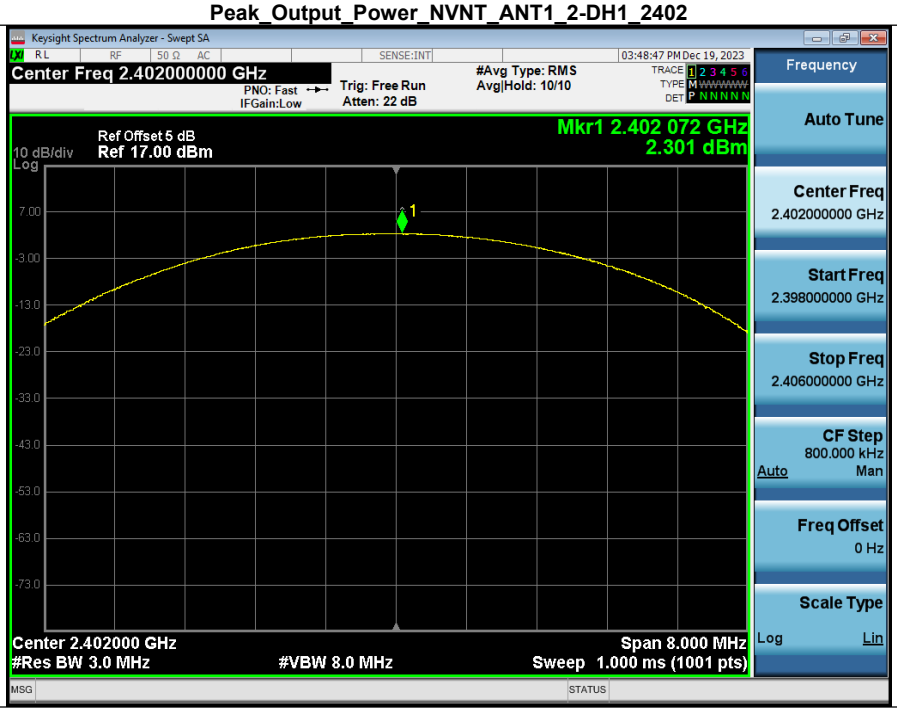
Peak_Output_Power_NVNT_ANT1_1-DH1_2441



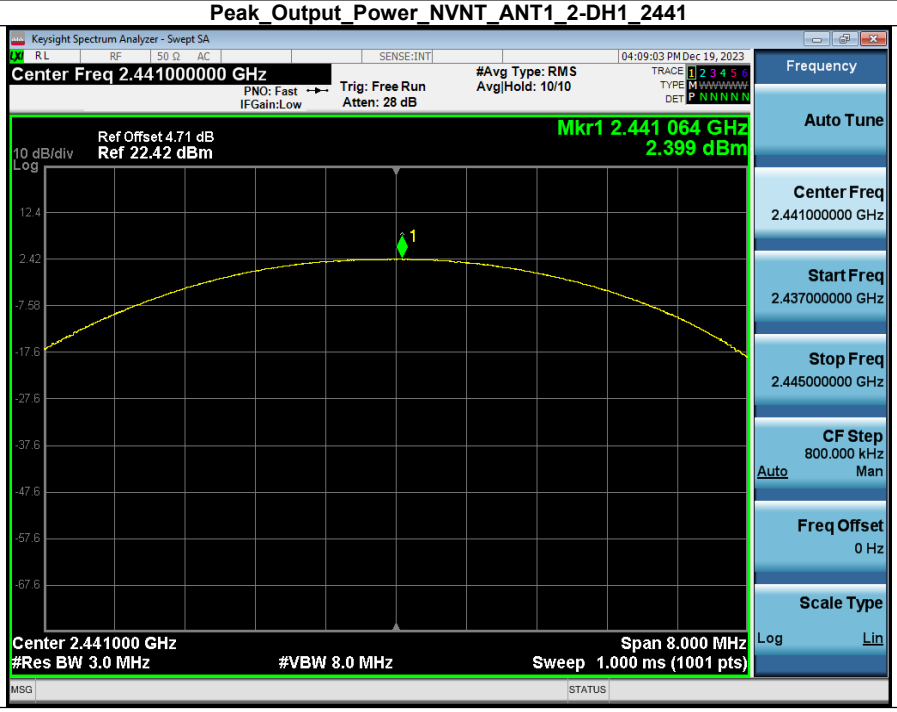
Peak_Output_Power_NVNT_ANT1_1-DH1_2480



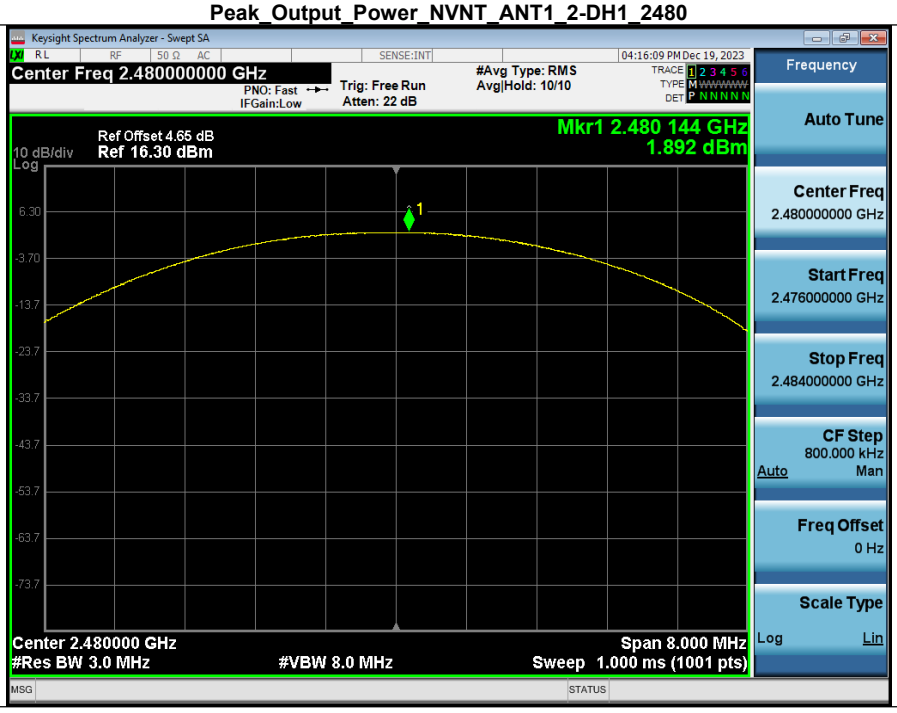
Peak_Output_Power_NVNT_ANT1_2-DH1_2402



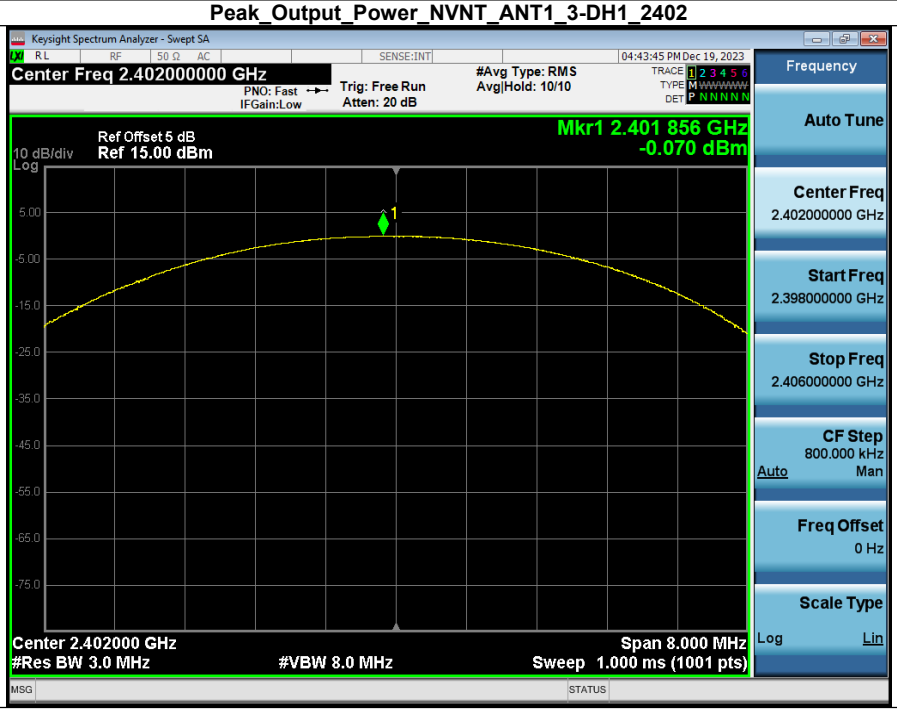
Peak_Output_Power_NVNT_ANT1_2-DH1_2441



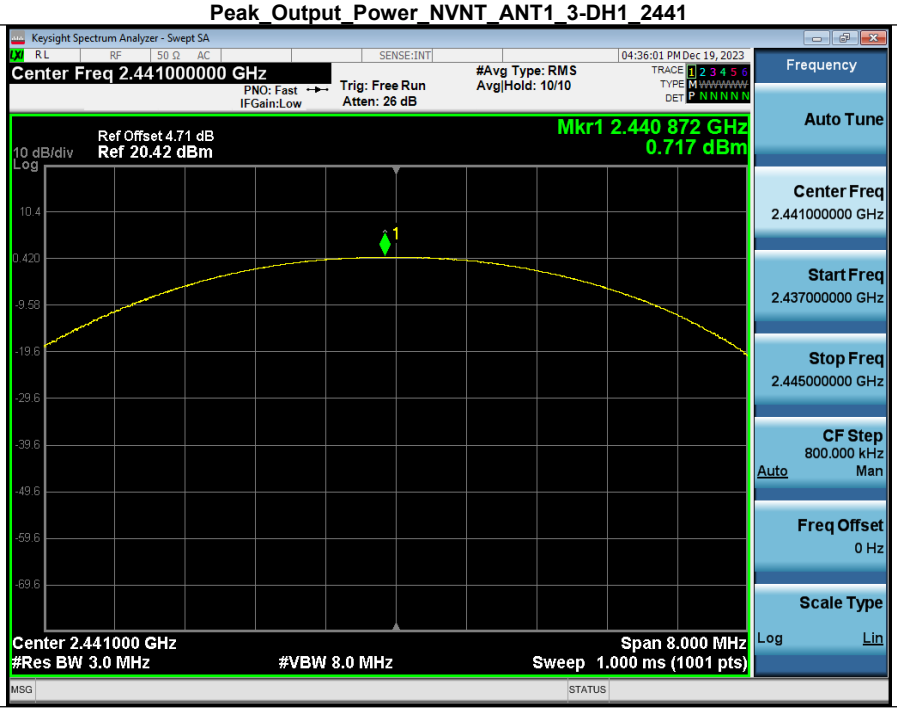
Peak_Output_Power_NVNT_ANT1_2-DH1_2480



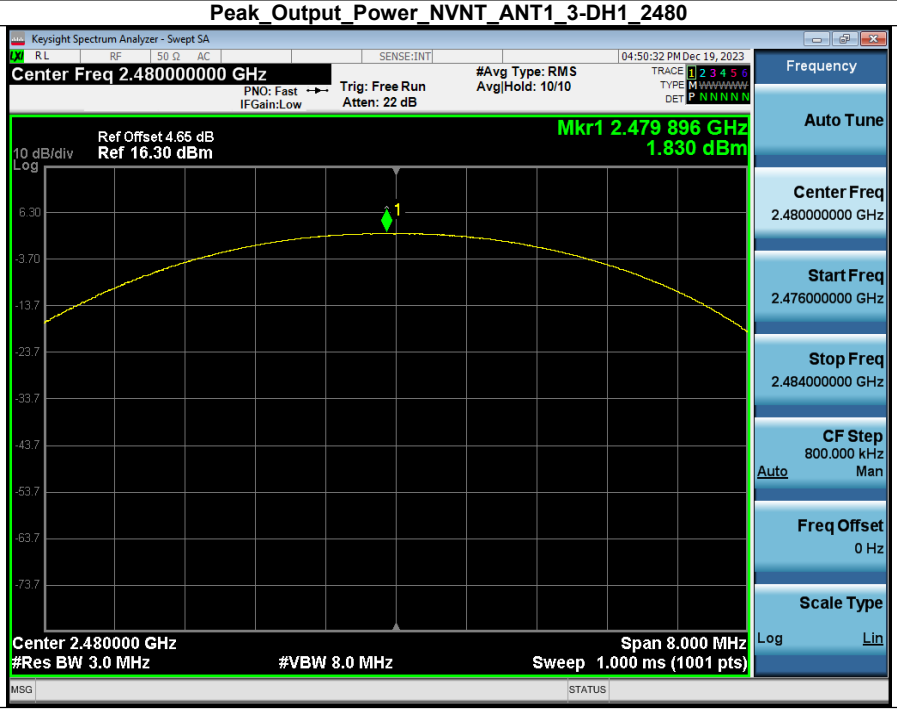
Peak_Output_Power_NVNT_ANT1_3-DH1_2402



Peak_Output_Power_NVNT_ANT1_3-DH1_2441



Peak_Output_Power_NVNT_ANT1_3-DH1_2480

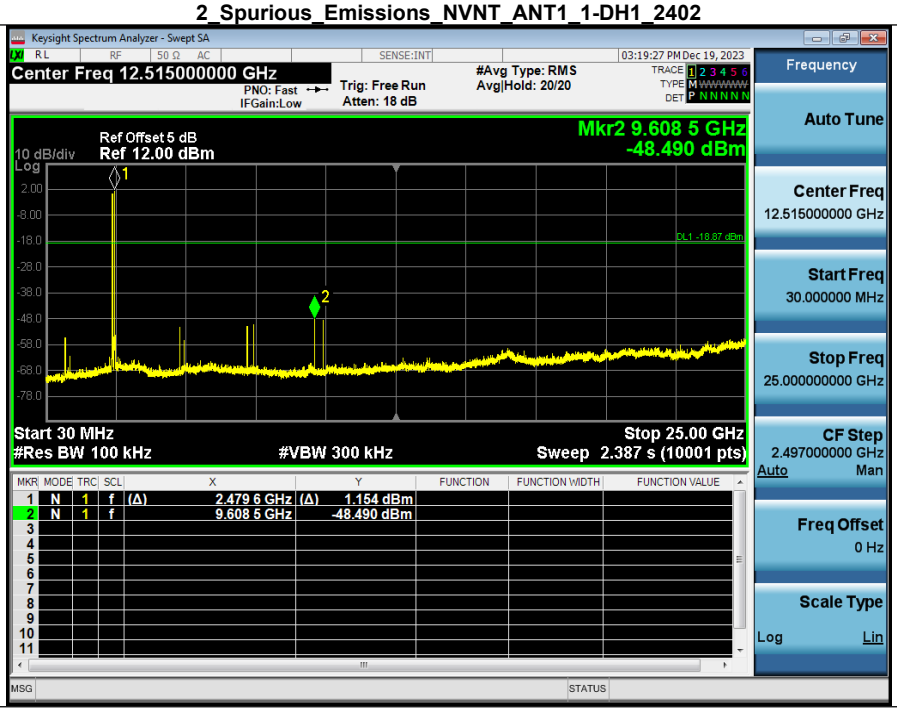


4. Spurious Emissions

Condition	Antenna	Modulation	TX Mode	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH1	2402.00	-48.490	-18.870	Pass
NVNT	ANT1	1-DH1	2441.00	-47.337	-18.927	Pass
NVNT	ANT1	1-DH1	2480.00	-48.339	-19.214	Pass
NVNT	ANT1	2-DH1	2402.00	-48.185	-18.883	Pass
NVNT	ANT1	2-DH1	2441.00	-47.161	-18.935	Pass
NVNT	ANT1	2-DH1	2480.00	-46.593	-19.331	Pass
NVNT	ANT1	3-DH1	2402.00	-45.602	-20.969	Pass
NVNT	ANT1	3-DH1	2441.00	-45.854	-20.469	Pass
NVNT	ANT1	3-DH1	2480.00	-46.726	-19.345	Pass

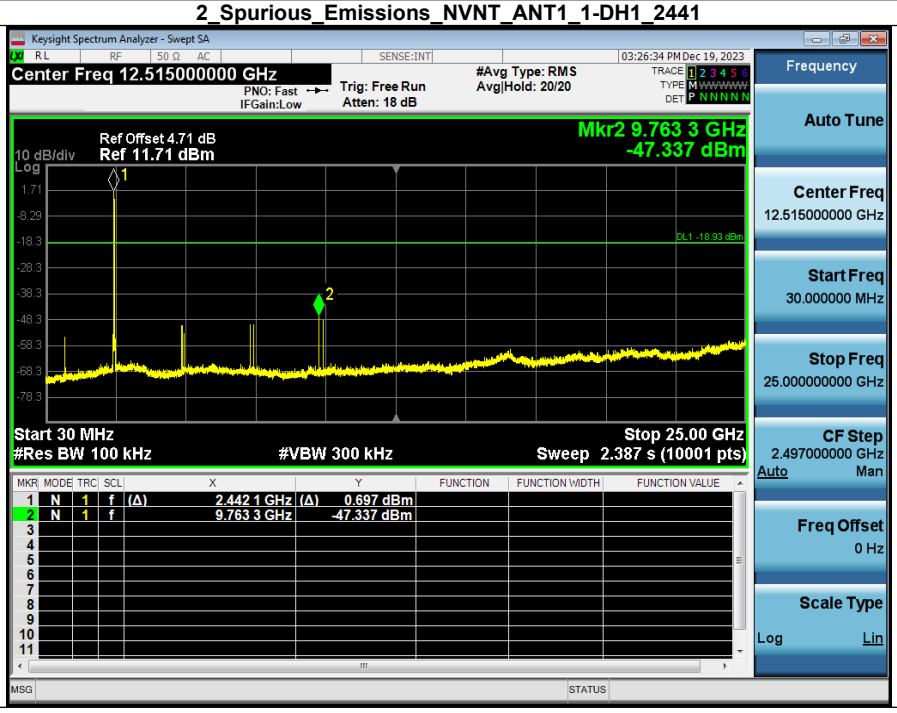
1_Reference_Level_NVNT_ANT1_1-DH1_2402

2_Spurious_Emissions_NVNT_ANT1_1-DH1_2402



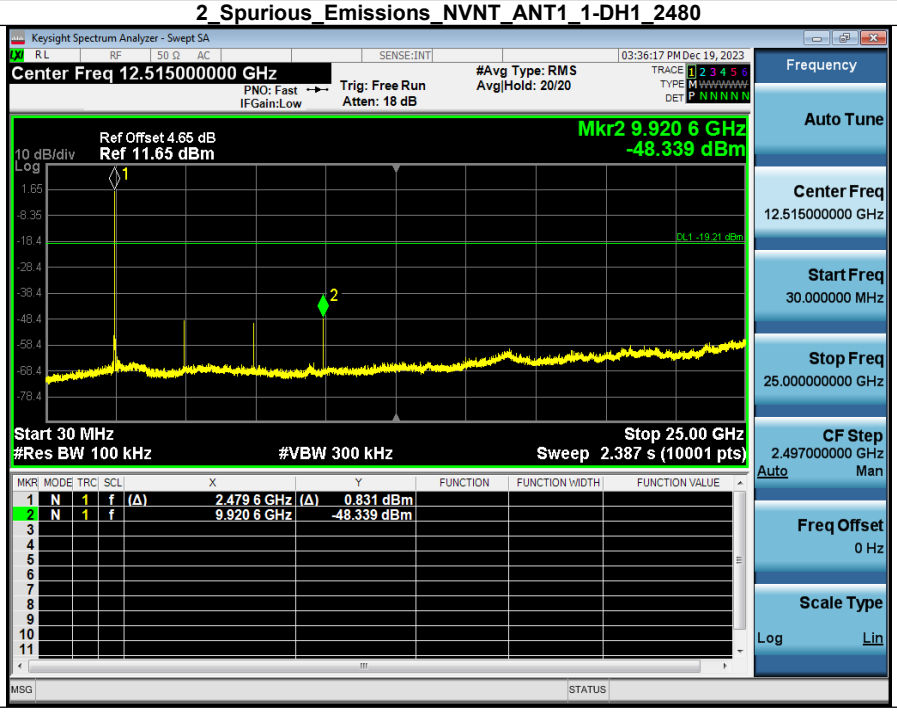
1_Reference_Level_NVNT_ANT1_1-DH1_2441

2_Spurious_Emissions_NVNT_ANT1_1-DH1_2441



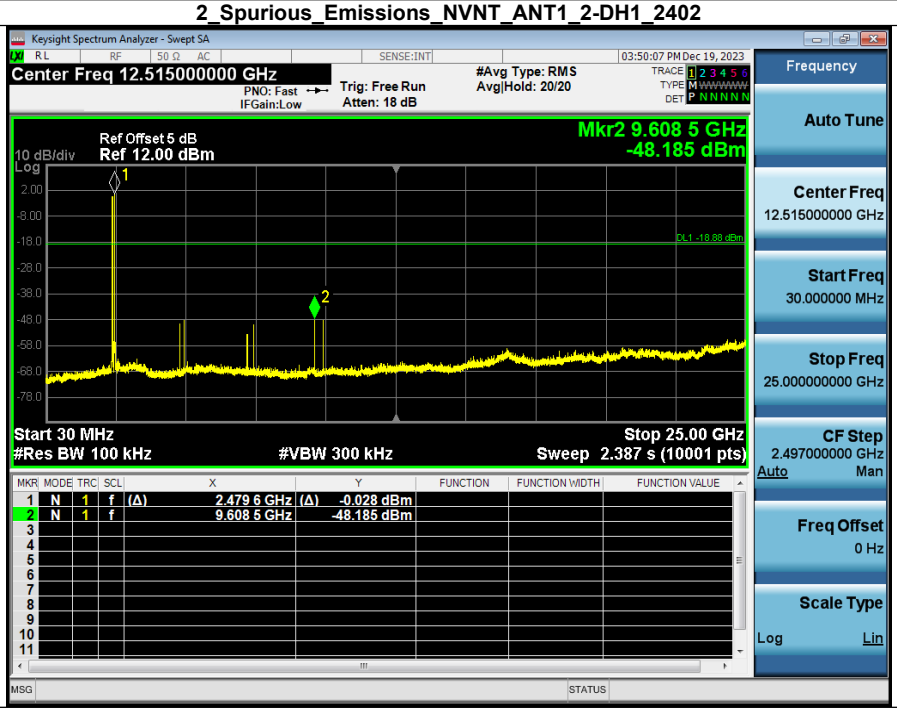
1_Reference_Level_NVNT_ANT1_1-DH1_2480

2_Spurious_Emissions_NVNT_ANT1_1-DH1_2480



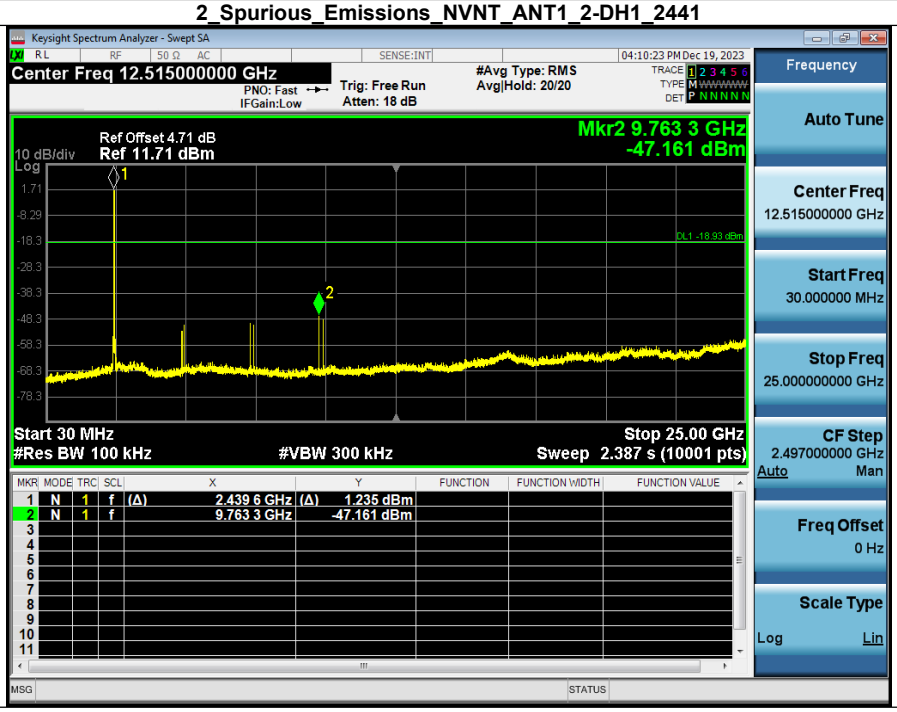
1_Reference_Level_NVNT_ANT1_2-DH1_2402

2_Spurious_Emissions_NVNT_ANT1_2-DH1_2402



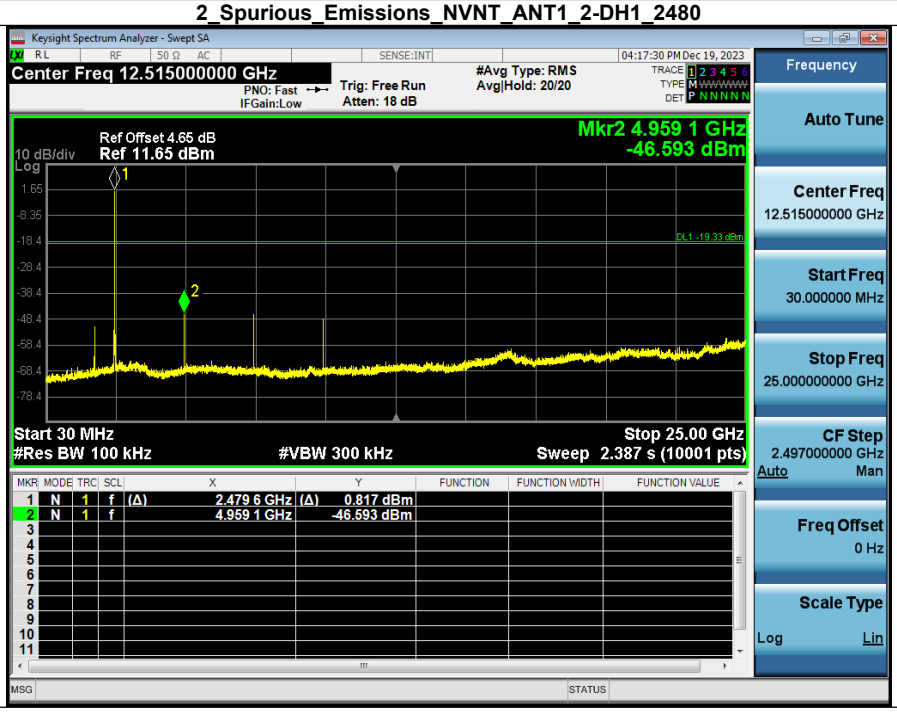
1_Reference_Level_NVNT_ANT1_2-DH1_2441

2_Spurious_Emissions_NVNT_ANT1_2-DH1_2441



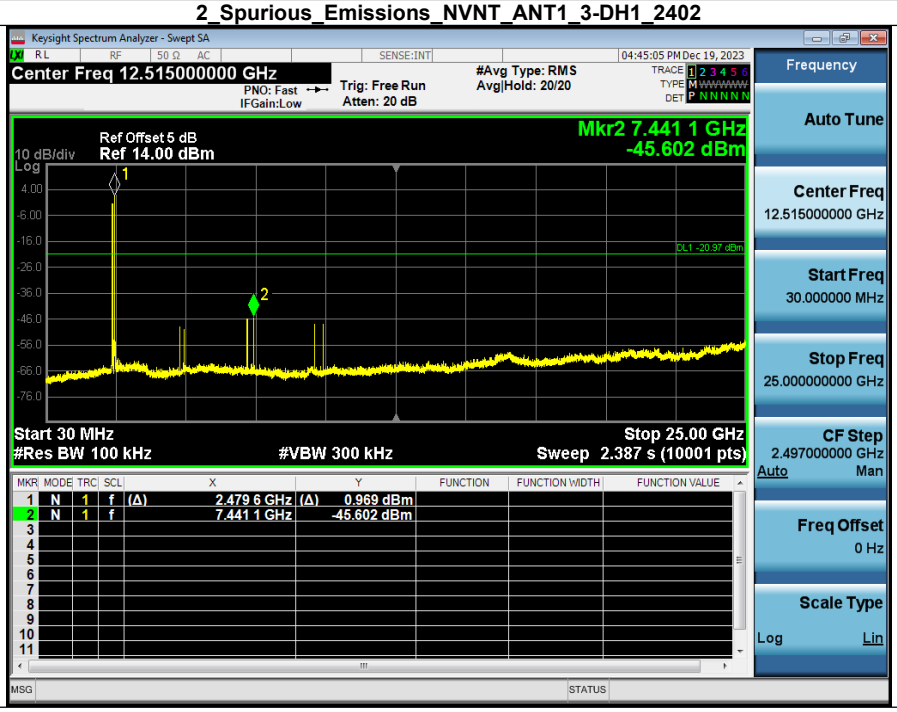
1_Reference_Level_NVNT_ANT1_2-DH1_2480

2_Spurious_Emissions_NVNT_ANT1_2-DH1_2480



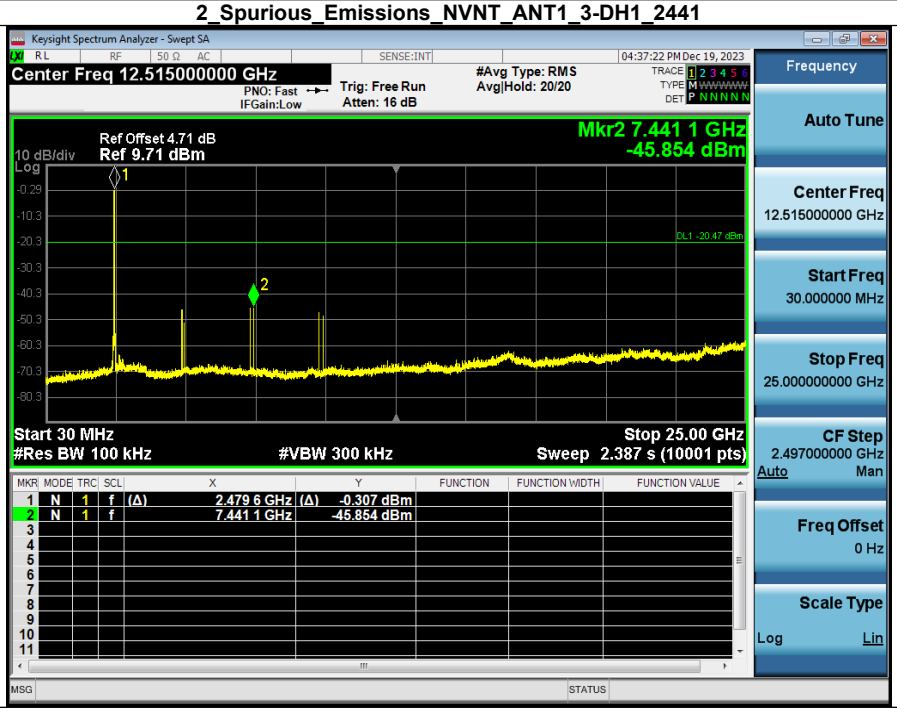
1_Reference_Level_NVNT_ANT1_3-DH1_2402

2_Spurious_Emissions_NVNT_ANT1_3-DH1_2402



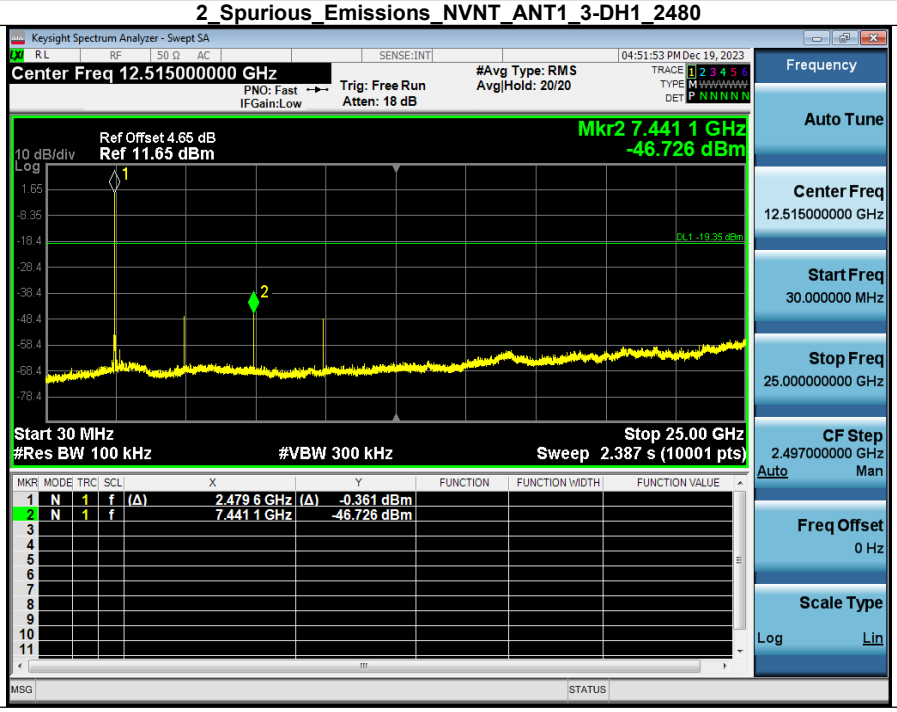
1_Reference_Level_NVNT_ANT1_3-DH1_2441

2_Spurious_Emissions_NVNT_ANT1_3-DH1_2441



1_Reference_Level_NVNT_ANT1_3-DH1_2480

2_Spurious_Emissions_NVNT_ANT1_3-DH1_2480

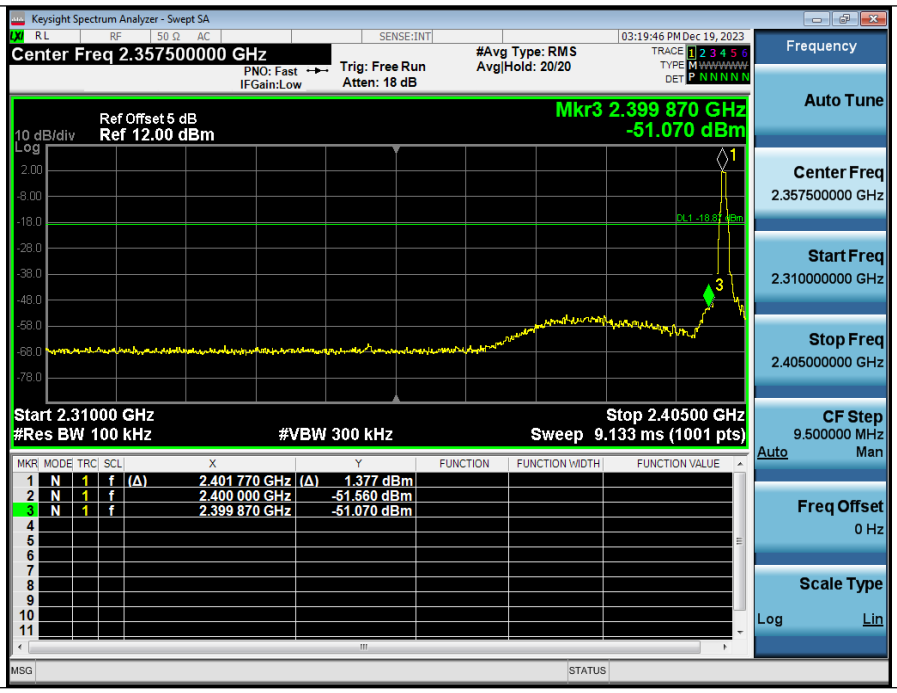


5. Bandedge

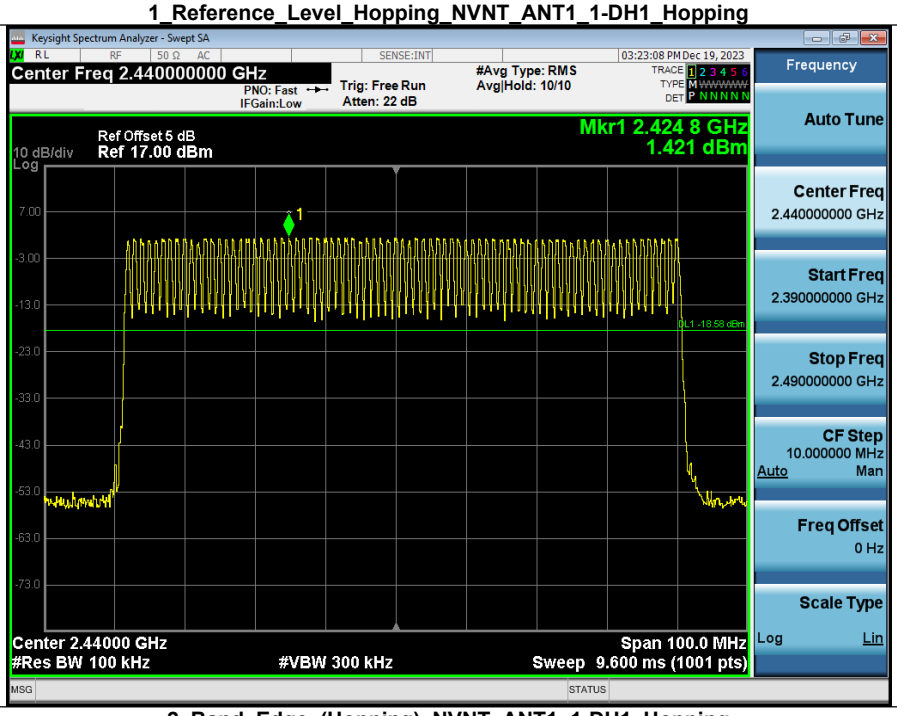
Condition	Antenna	Modulation	TX Mode	Bandedge MAX.Value	Limit	Result
NVNT	ANT1	1-DH1	2402.00	-51.070	-18.870	Pass
NVNT	ANT1	1-DH1	Hopping_LCH	-51.653	-18.579	Pass
NVNT	ANT1	1-DH1	2480.00	-52.874	-19.214	Pass
NVNT	ANT1	1-DH1	Hopping_HCH	-53.154	-18.887	Pass
NVNT	ANT1	2-DH1	2402.00	-49.358	-18.883	Pass
NVNT	ANT1	2-DH1	Hopping_LCH	-51.071	-18.570	Pass
NVNT	ANT1	2-DH1	2480.00	-53.769	-19.331	Pass
NVNT	ANT1	2-DH1	Hopping_HCH	-53.447	-19.236	Pass
NVNT	ANT1	3-DH1	2402.00	-51.123	-20.969	Pass
NVNT	ANT1	3-DH1	Hopping_LCH	-52.763	-18.915	Pass
NVNT	ANT1	3-DH1	2480.00	-53.314	-19.345	Pass
NVNT	ANT1	3-DH1	Hopping_HCH	-53.149	-19.266	Pass

1_Reference_Level_NVNT_ANT1_1-DH1_2402

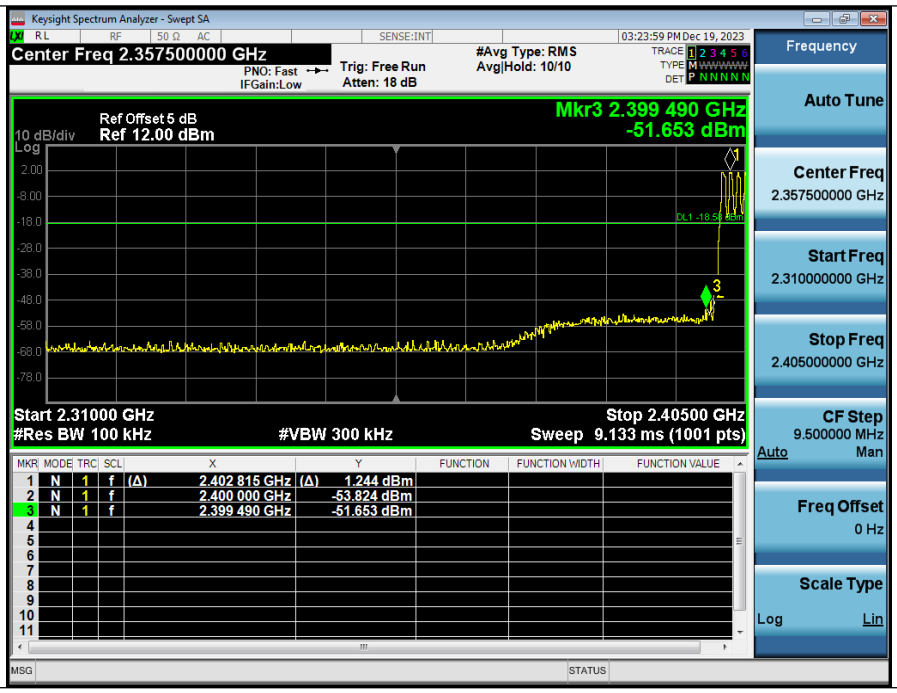
2_Bandedge_NVNT_ANT1_1-DH1_2402



1_Reference_Level_Hopping_NVNT_ANT1_1-DH1_Hopping

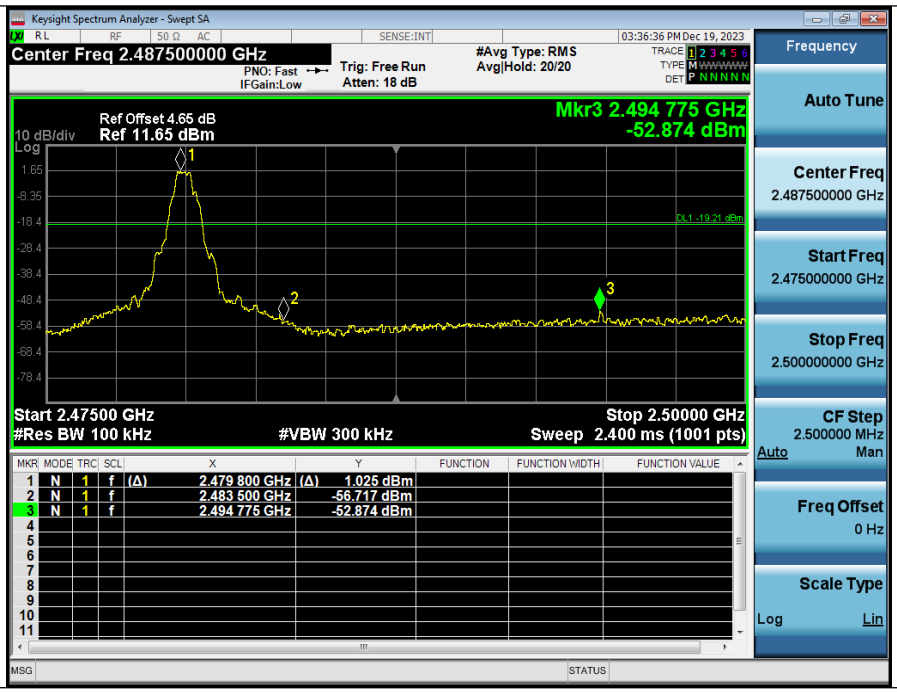


2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH1_Hopping

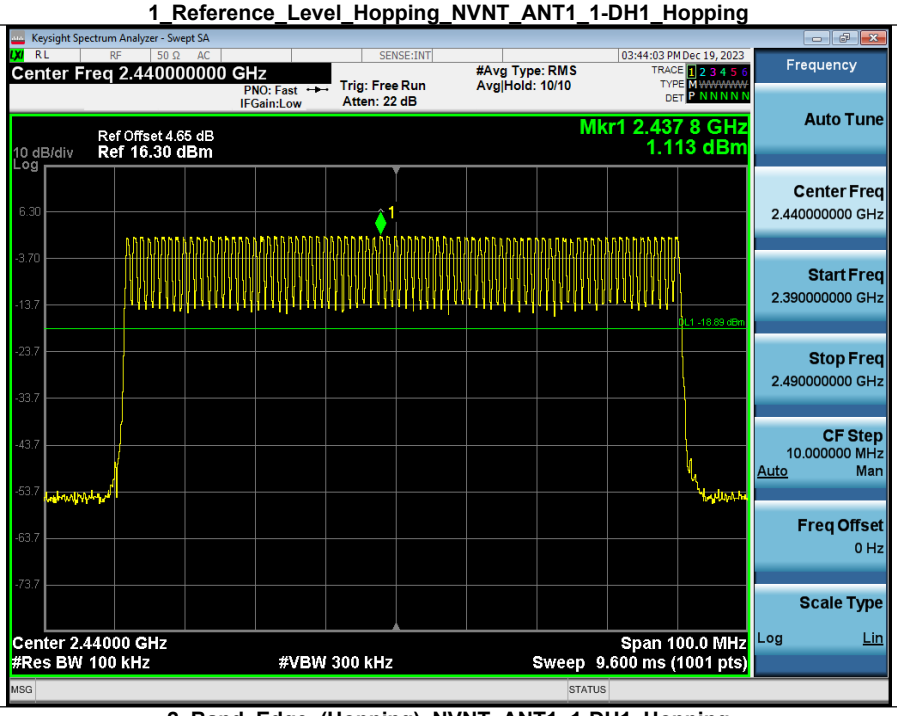


1_Reference_Level_NVNT_ANT1_1-DH1_2480

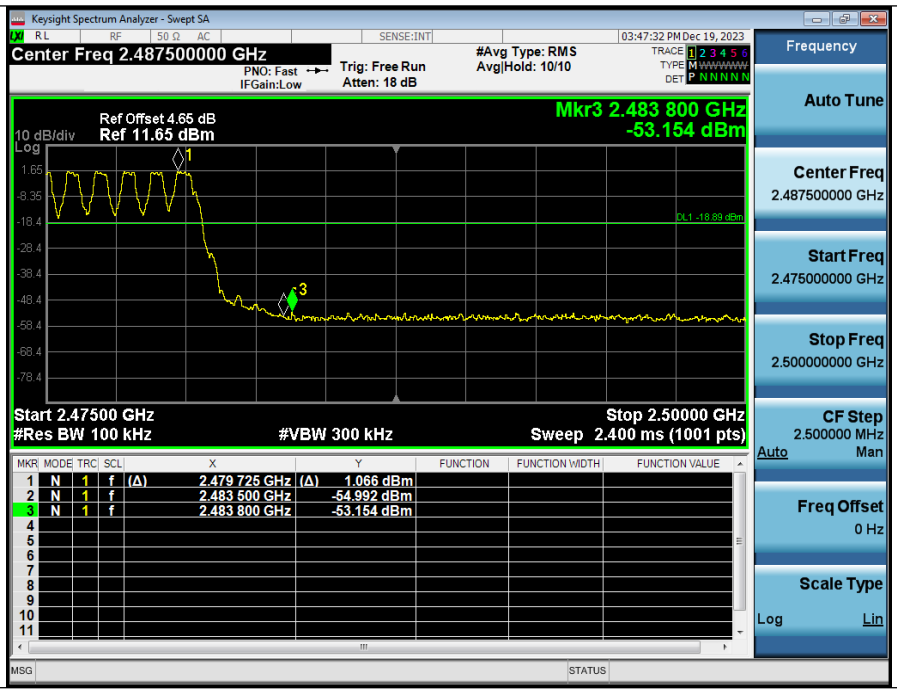
2_Bandedge_NVNT_ANT1_1-DH1_2480



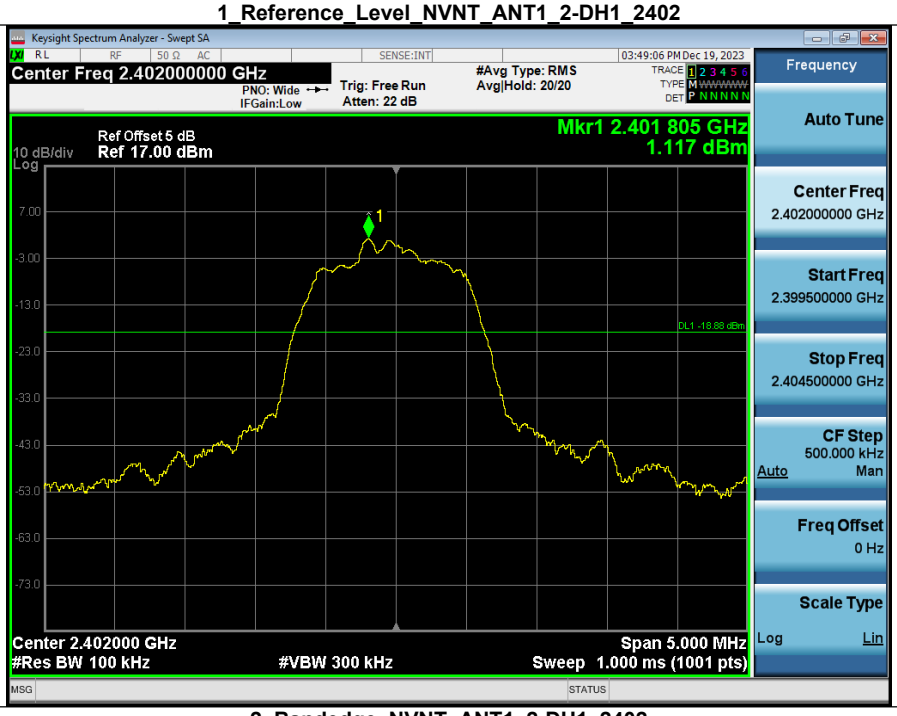
1_Reference_Level_Hopping_NVNT_ANT1_1-DH1_Hopping



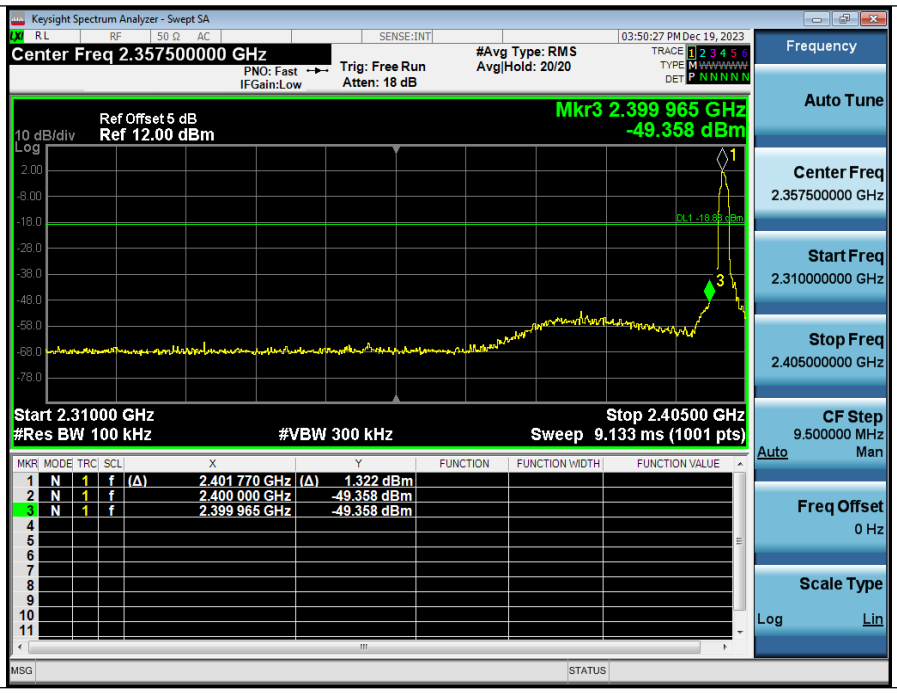
2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH1_Hopping



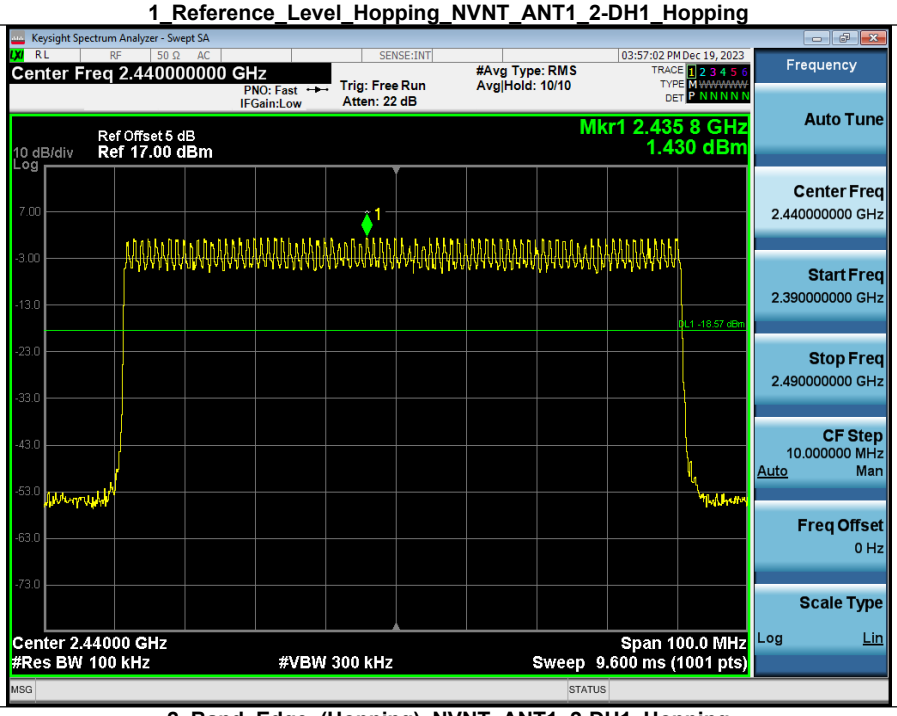
1_Reference_Level_NVNT_ANT1_2-DH1_2402



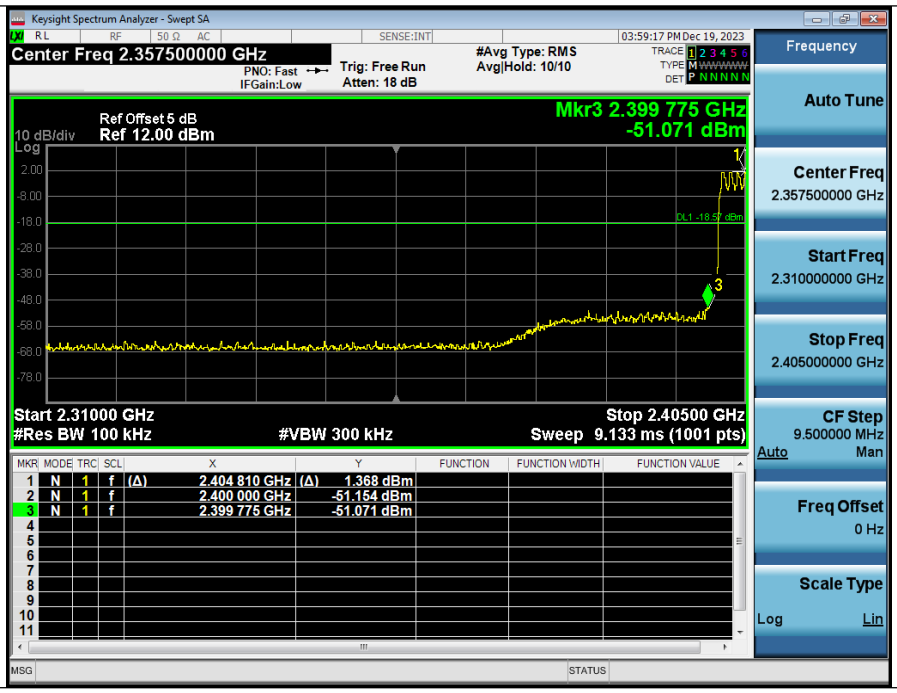
2_Bandedge_NVNT_ANT1_2-DH1_2402



1_Reference_Level_Hopping_NVNT_ANT1_2-DH1_Hopping

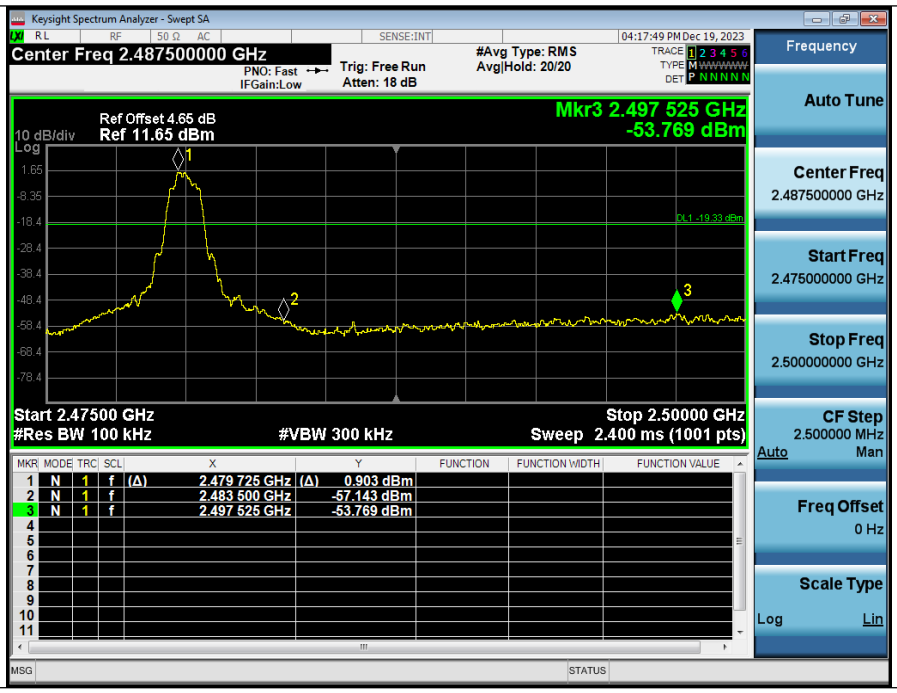


2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH1_Hopping

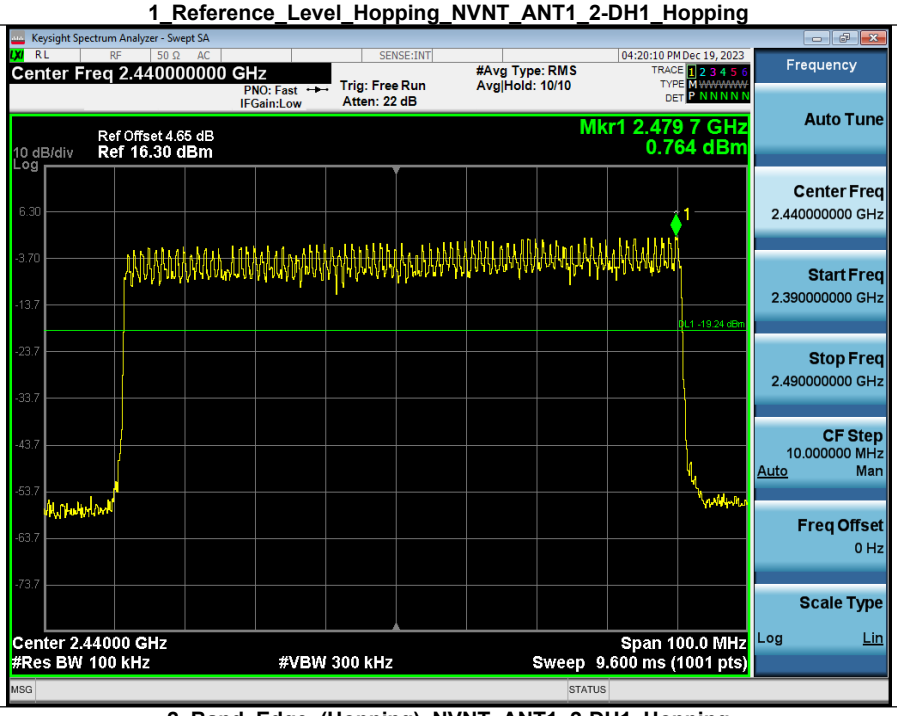


1_Reference_Level_NVNT_ANT1_2-DH1_2480

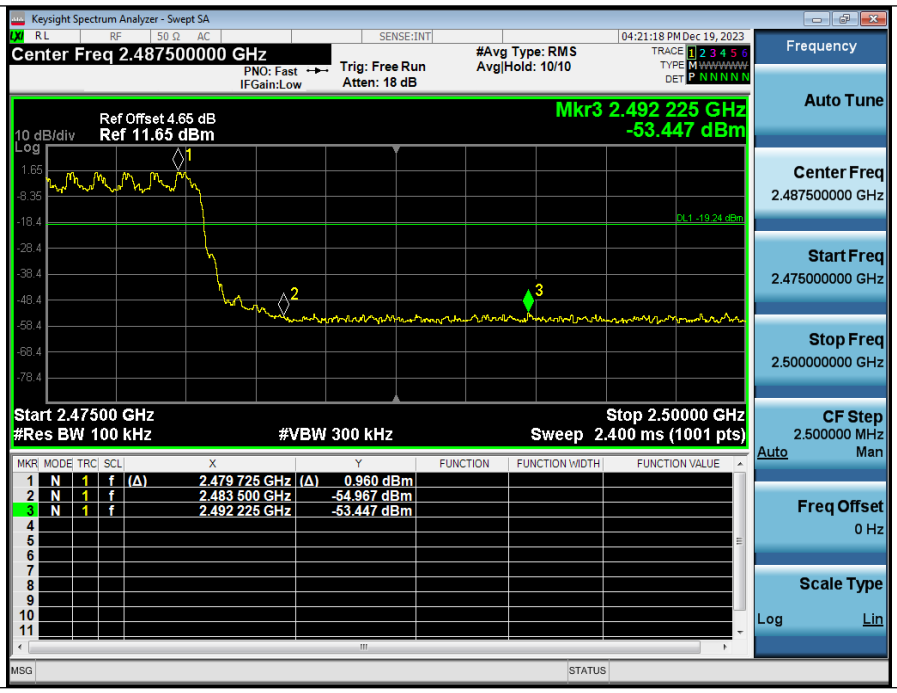
2_Bandedge_NVNT_ANT1_2-DH1_2480



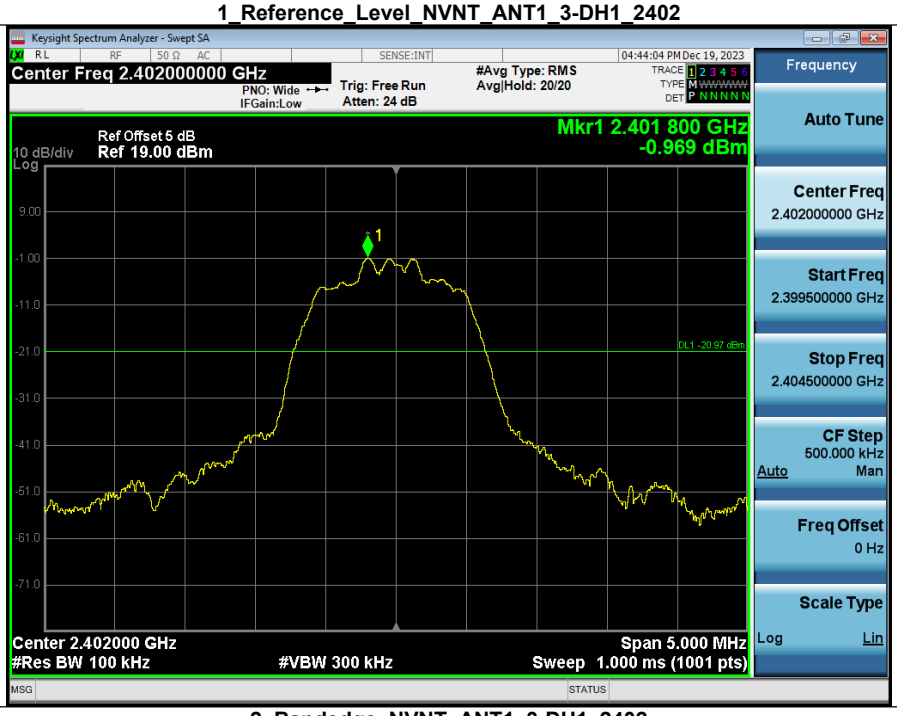
1_Reference_Level_Hopping_NVNT_ANT1_2-DH1_Hopping



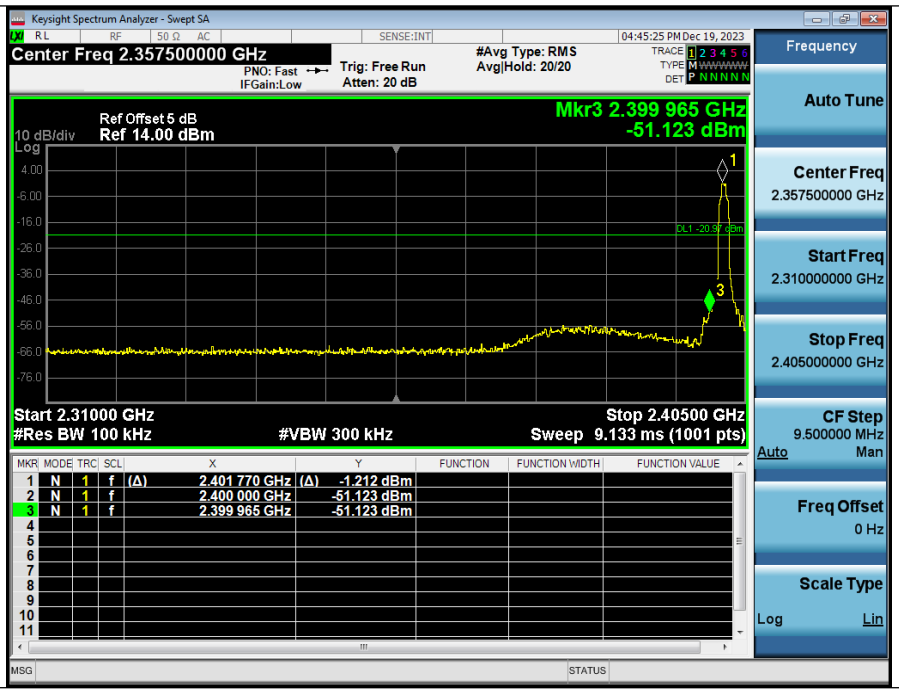
2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH1_Hopping



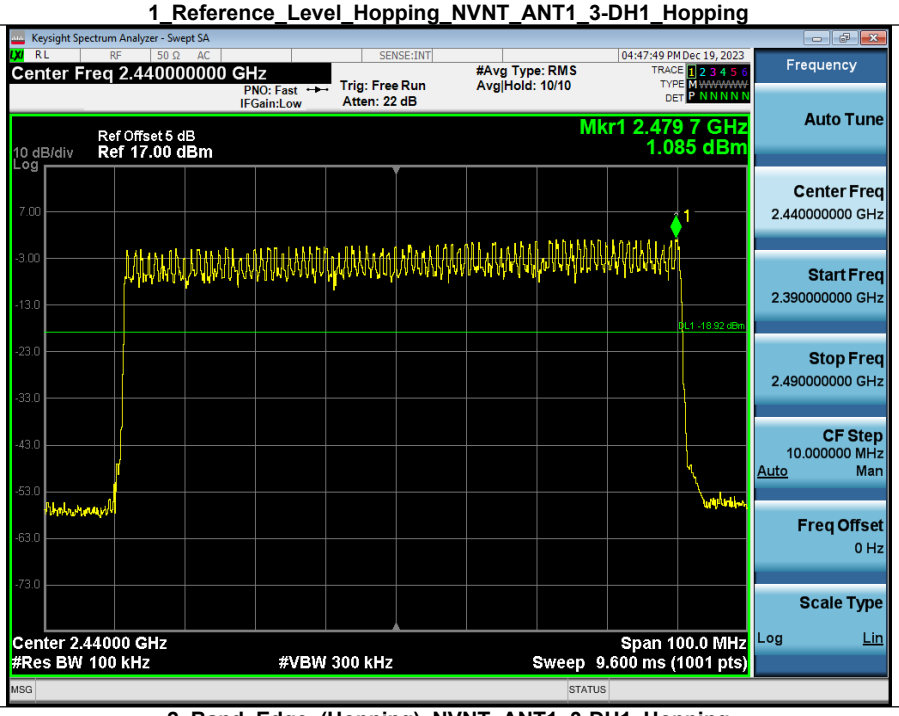
1_Reference_Level_NVNT_ANT1_3-DH1_2402



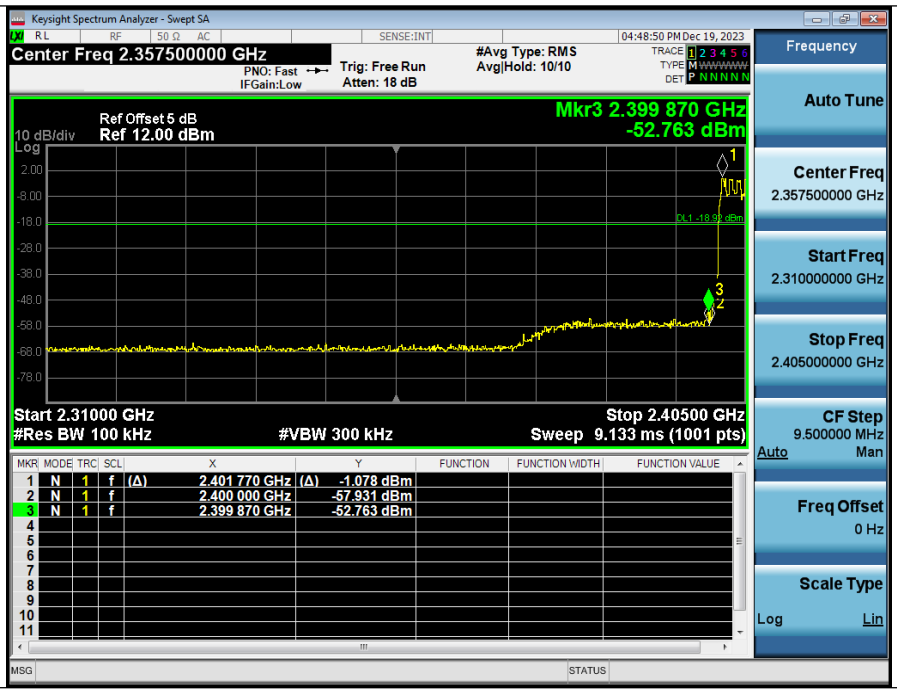
2_Bandedge_NVNT_ANT1_3-DH1_2402



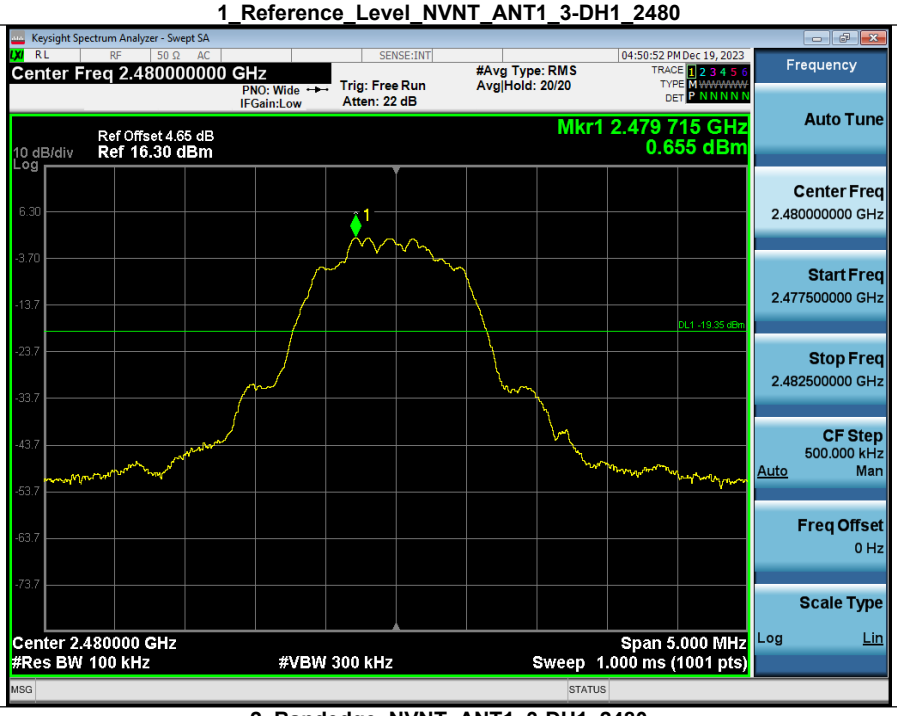
1_Reference_Level_Hopping_NVNT_ANT1_3-DH1_Hopping



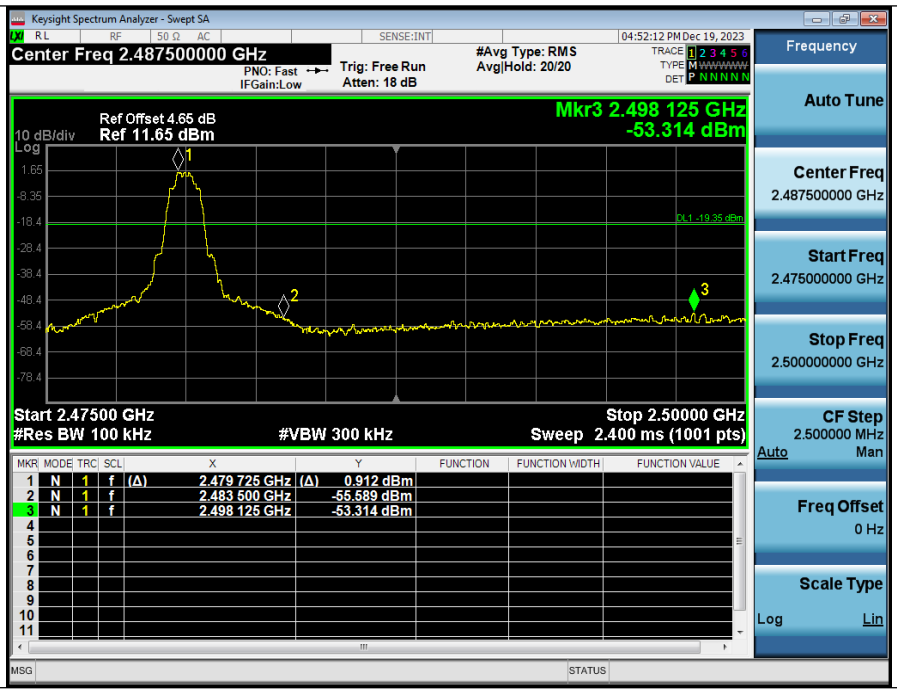
2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH1_Hopping



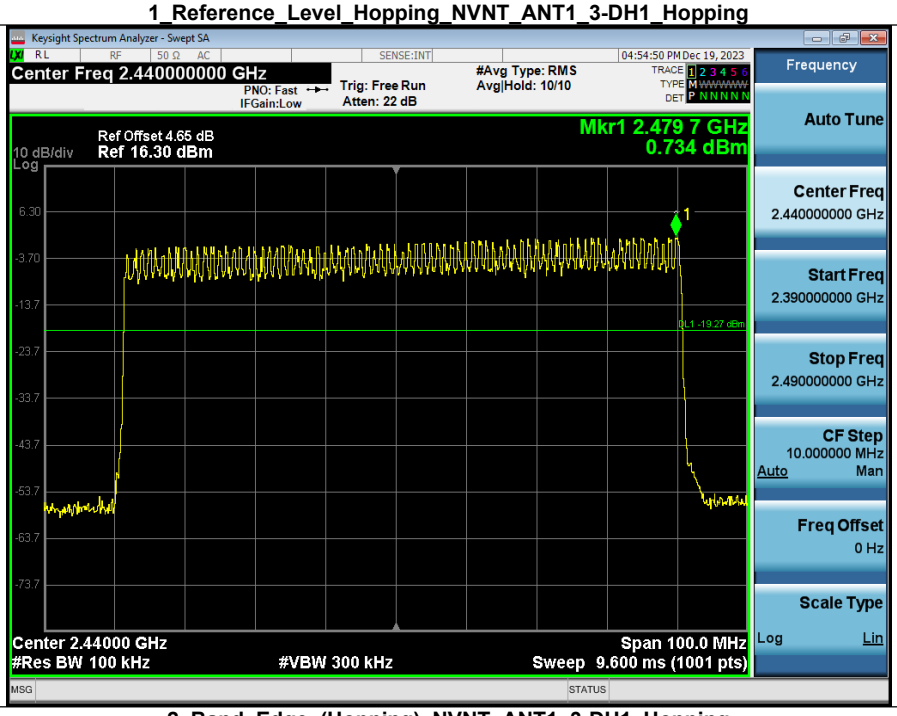
1_Reference_Level_NVNT_ANT1_3-DH1_2480



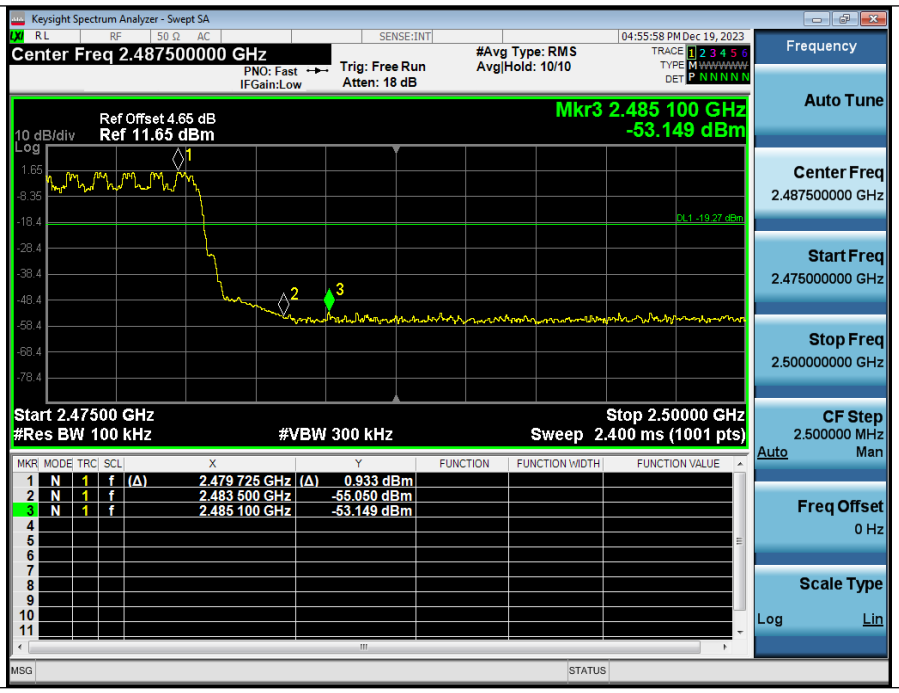
2_Bandedge_NVNT_ANT1_3-DH1_2480



1_Reference_Level_Hopping_NVNT_ANT1_3-DH1_Hopping



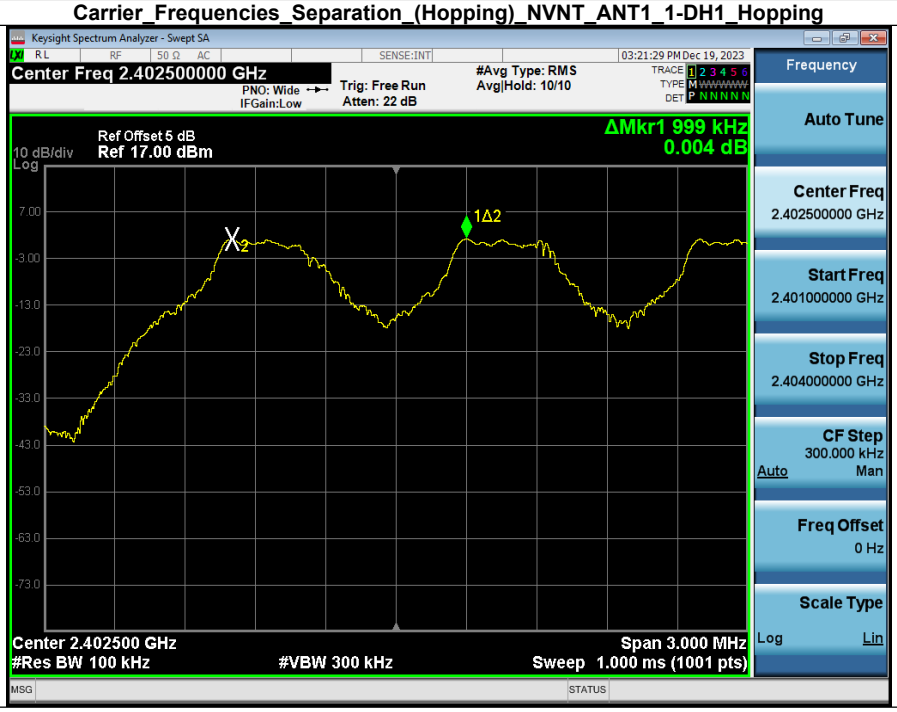
2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH1_Hopping


Keysight Spectrum Analyzer - Swept SA
Center Freq 2.487500000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 18 dB
#Avg Type: RMS
Avg|Hold: 10/10
04:55:58 PM Dec 19, 2023
Ref Offset 4.65 dB
10 dB/div
Ref 11.65 dBm
Mkr3 2.485 100 GHz
-53.149 dBm
Start 2.47500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.50000 GHz
Sweep 2.400 ms (1001 pts)
1 N 1 f (Δ) 2.479 725 GHz (Δ) 0.933 dBm
2 N 1 f 2.483 500 GHz -55.050 dBm
3 N 1 f 2.485 100 GHz -53.149 dBm
Frequency
Auto Tune
Center Freq
2.487500000 GHz
Start Freq
2.475000000 GHz
Stop Freq
2.500000000 GHz
CF Step
2.500000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

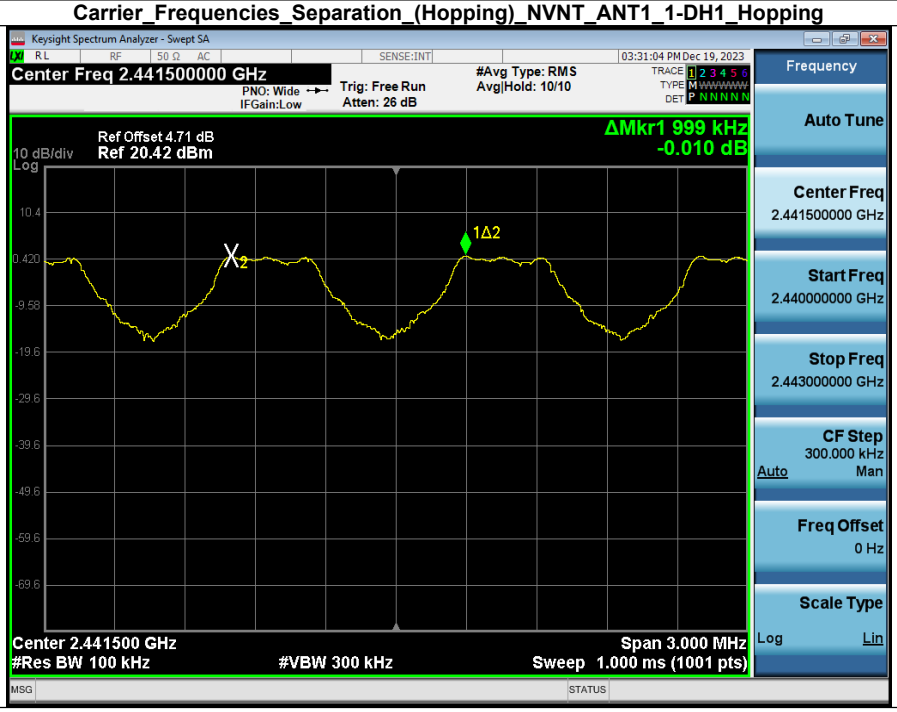
6. Carrier Frequencies Separation (Hopping)

Condition	Antenna	Modulation	Frequency(MHz)	Hopping NO.0 (MHz)	Hopping NO.1 (MHz)	Carrier Frequencies Separation(MHz)	Limit(MHz)	Result
NVNT	ANT1	1-DH1	2402.00	2401.801	2402.800	1.00	0.873	Pass
NVNT	ANT1	1-DH1	2441.00	2440.798	2441.797	1.00	0.866	Pass
NVNT	ANT1	1-DH1	2480.00	2478.801	2479.803	1.00	0.717	Pass
NVNT	ANT1	2-DH1	2402.00	2401.798	2402.800	1.00	0.839	Pass
NVNT	ANT1	2-DH1	2441.00	2440.807	2441.800	0.99	0.835	Pass
NVNT	ANT1	2-DH1	2480.00	2478.801	2479.803	1.00	0.831	Pass
NVNT	ANT1	3-DH1	2402.00	2401.804	2402.806	1.00	0.843	Pass
NVNT	ANT1	3-DH1	2441.00	2440.801	2441.800	1.00	0.860	Pass
NVNT	ANT1	3-DH1	2480.00	2478.801	2479.803	1.00	0.861	Pass

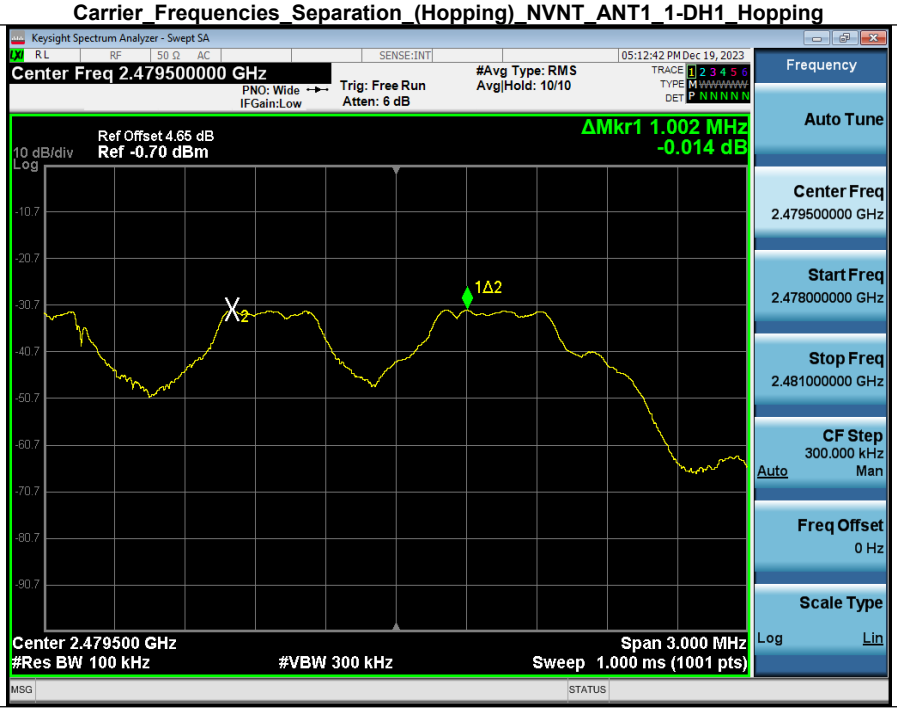
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH1_Hopping



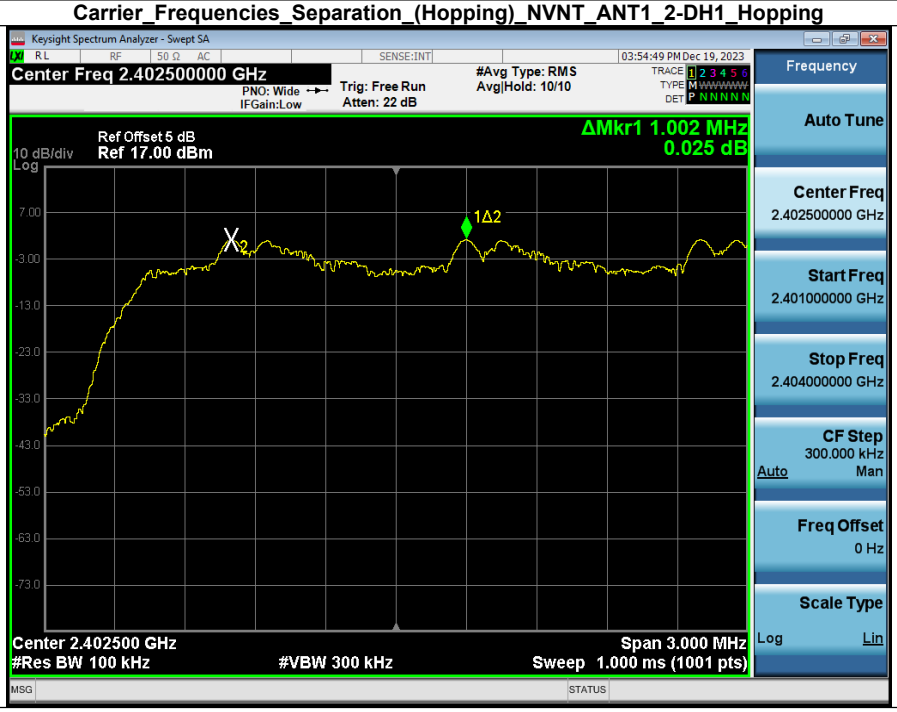
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH1_Hopping



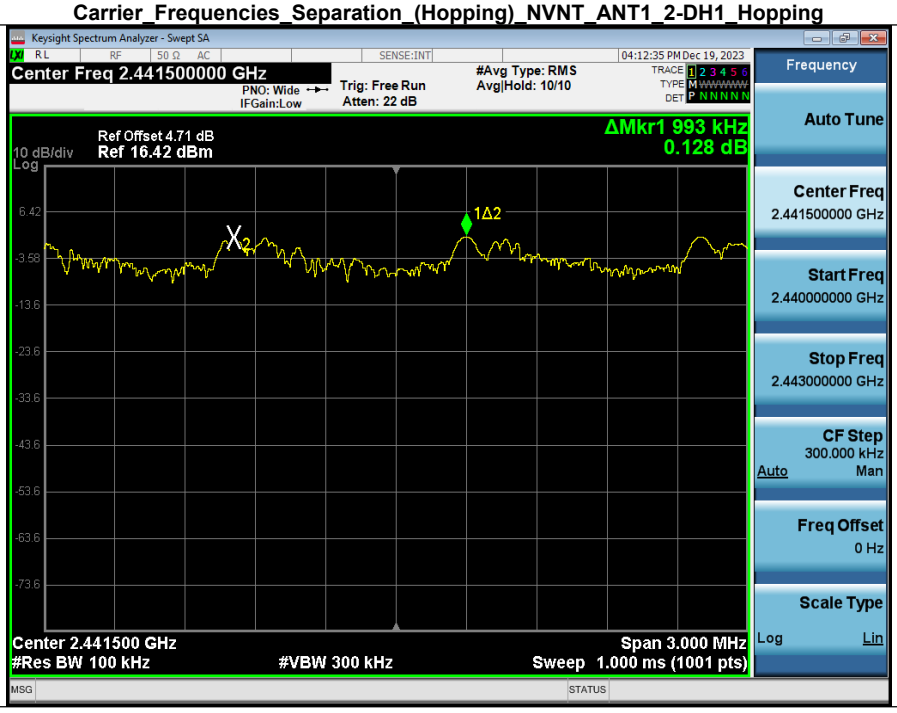
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH1_Hopping



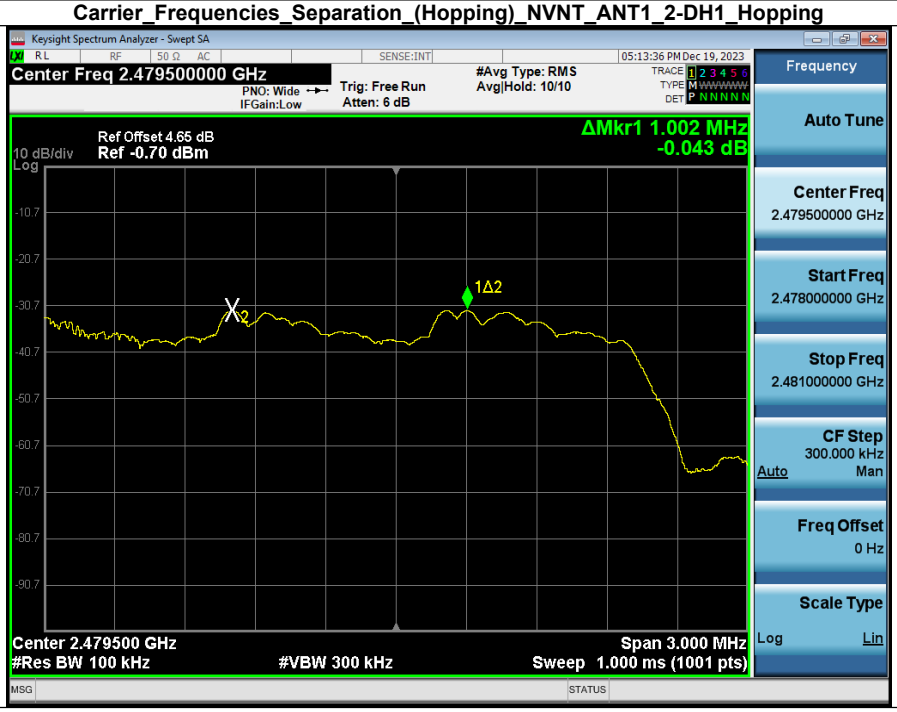
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH1_Hopping



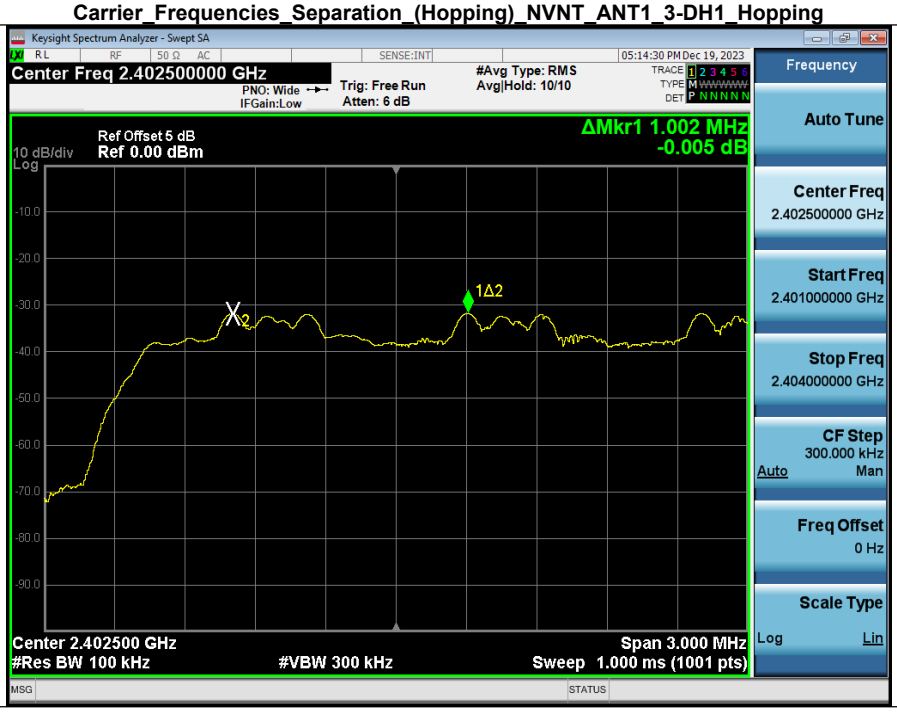
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH1_Hopping



Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH1_Hopping



Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH1_Hopping



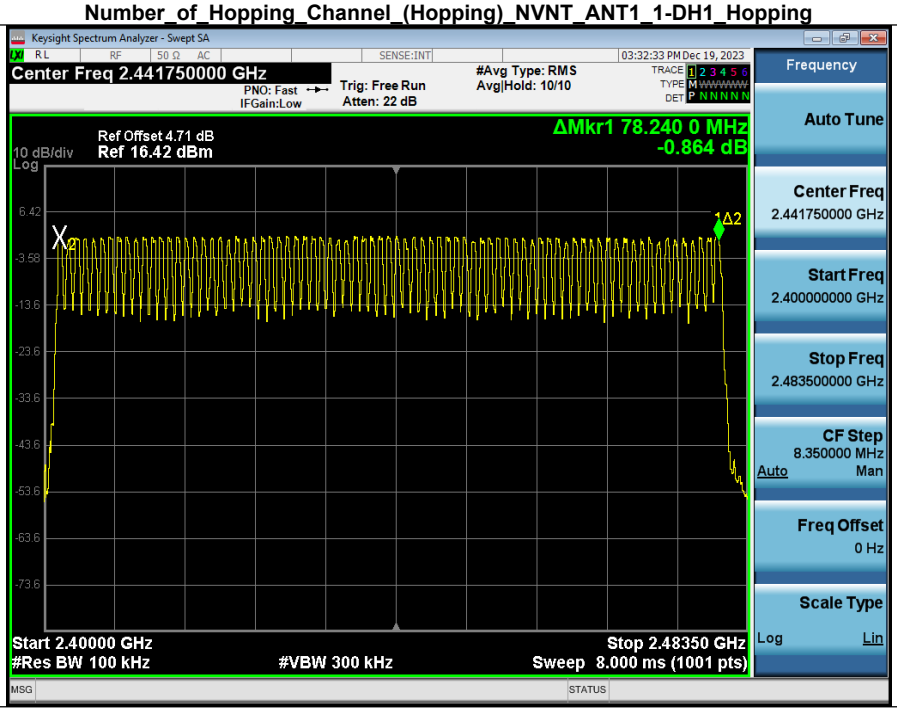
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH1_Hopping

Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH1_Hopping

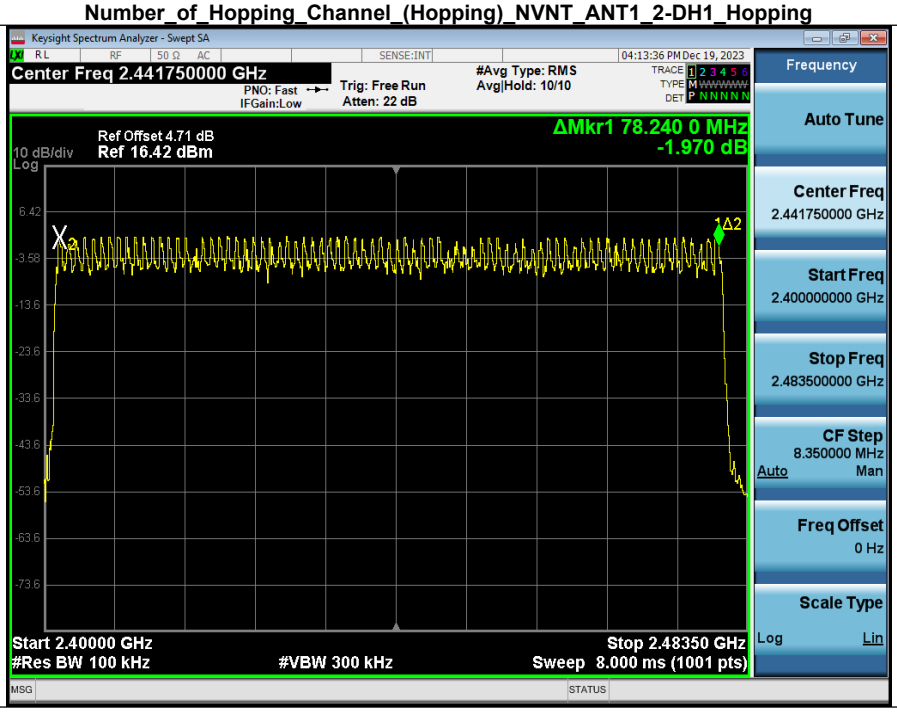
7. Number of Hopping Channel (Hopping)

Condition	Antenna	Modulation	Hopping Num	Limit	Result
NVNT	ANT1	1-DH1	79	15	Pass
NVNT	ANT1	2-DH1	79	15	Pass
NVNT	ANT1	3-DH1	79	15	Pass

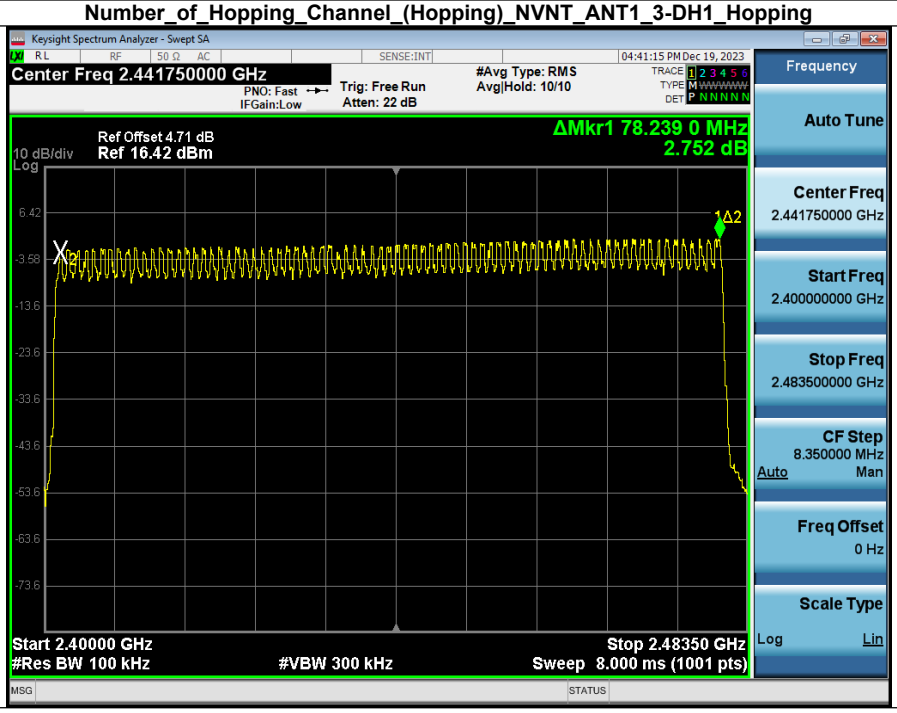
Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_1-DH1_Hopping



Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_2-DH1_Hopping



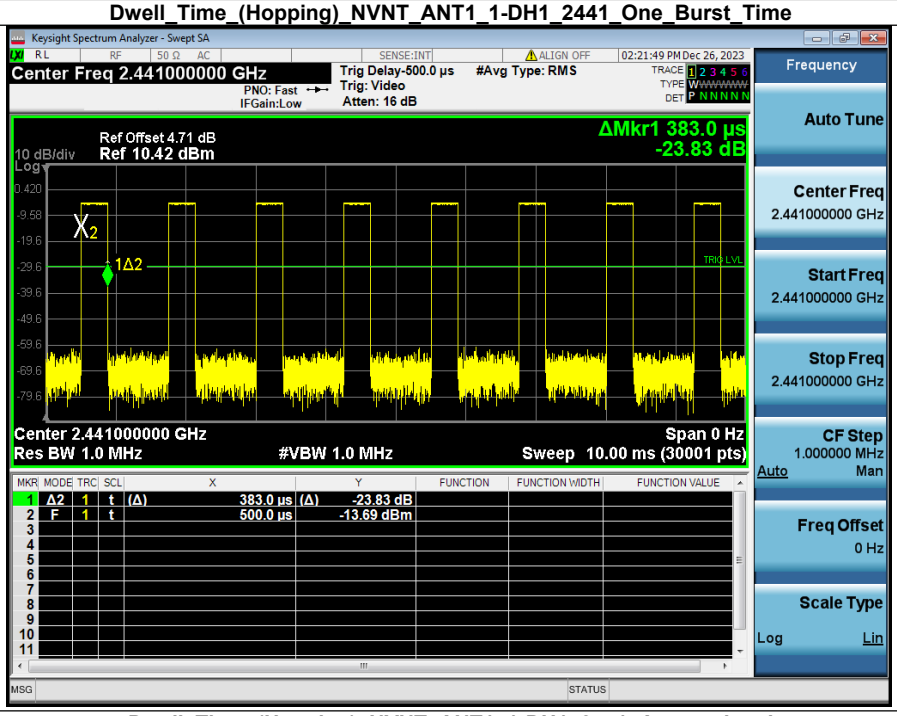
Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_3-DH1_Hopping



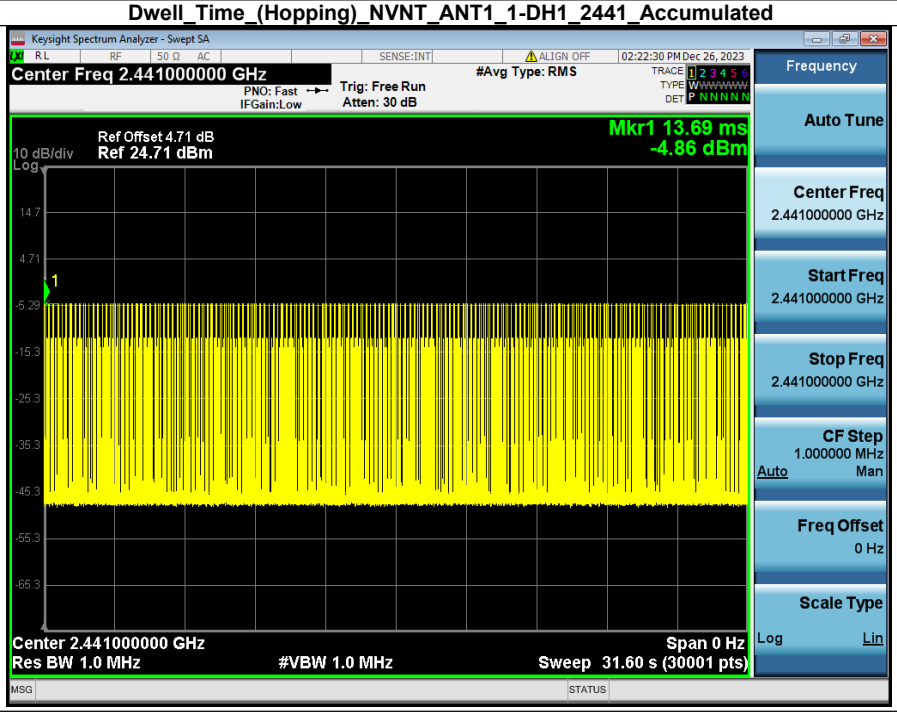
8. Dwell Time (Hopping)

Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH1	0.383	320.00	122.560	0.40	Pass
NVNT	ANT1	1-DH3	1.639	157.00	257.323	0.40	Pass
NVNT	ANT1	1-DH5	2.888	115.00	332.120	0.40	Pass
NVNT	ANT1	2-DH1	0.393	320.00	125.760	0.40	Pass
NVNT	ANT1	2-DH3	1.645	158.00	259.910	0.40	Pass
NVNT	ANT1	2-DH5	2.893	110.00	318.230	0.40	Pass
NVNT	ANT1	3-DH1	0.652	150.00	97.800	0.40	Pass
NVNT	ANT1	3-DH3	0.897	107.00	95.979	0.40	Pass
NVNT	ANT1	3-DH5	2.889	102.00	294.678	0.40	Pass

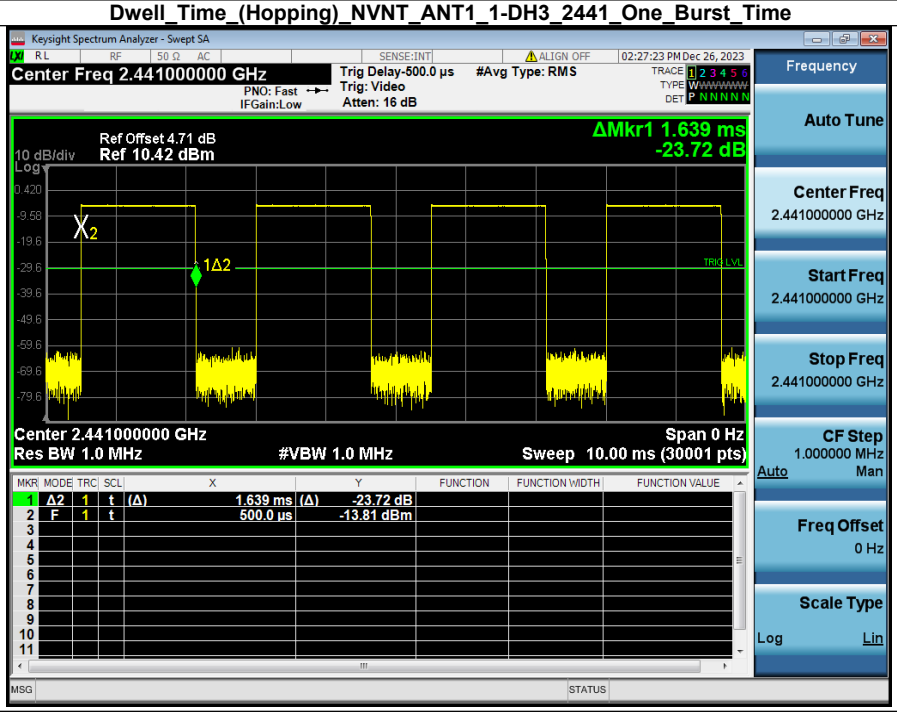
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH1_2441_One_Burst_Time



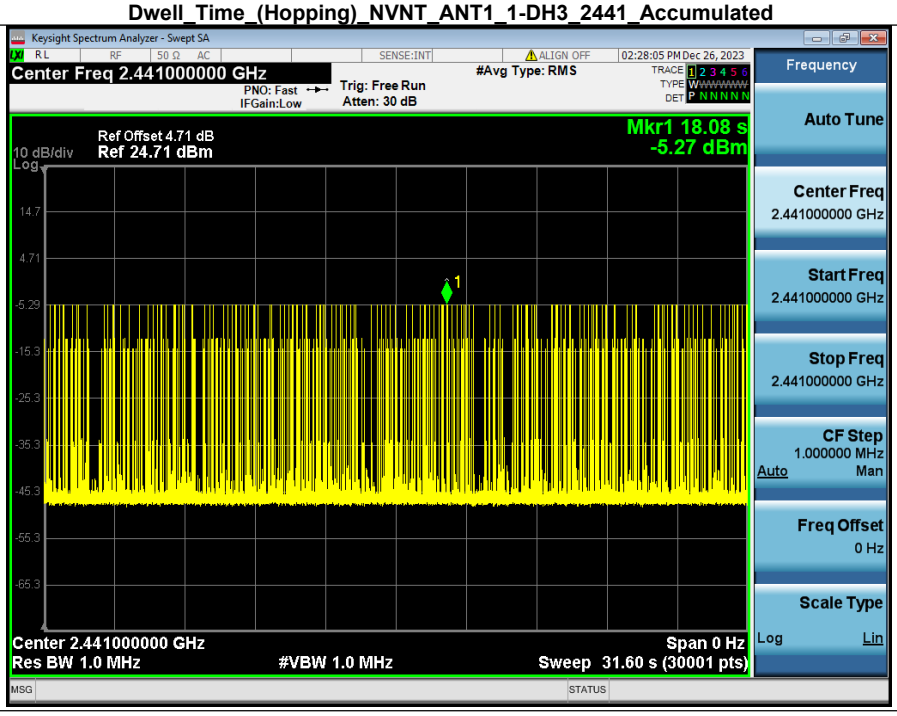
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH1_2441_Accumulated



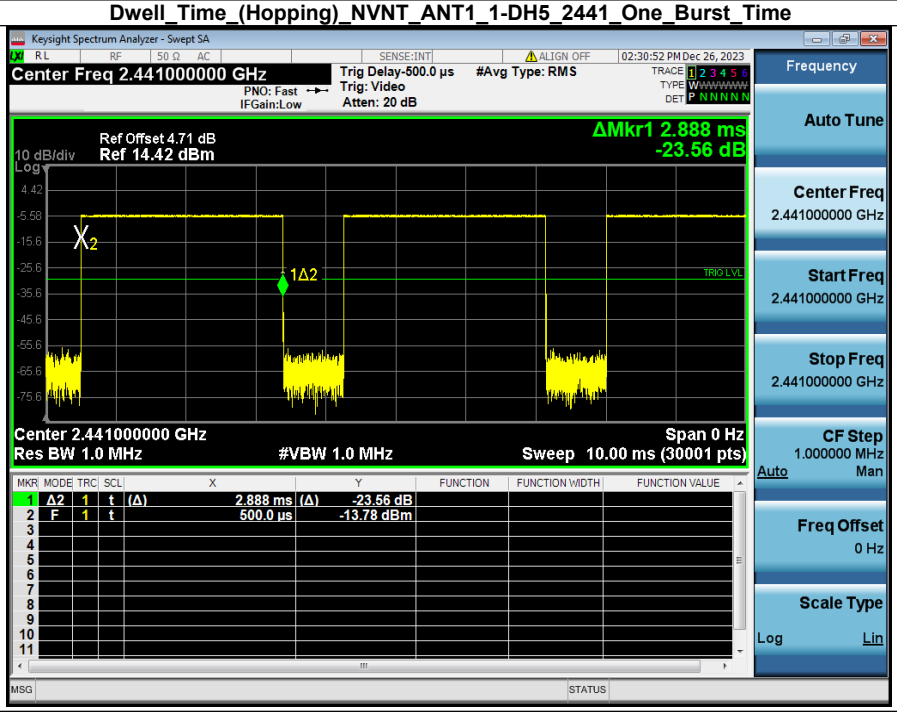
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH3_2441_One_Burst_Time



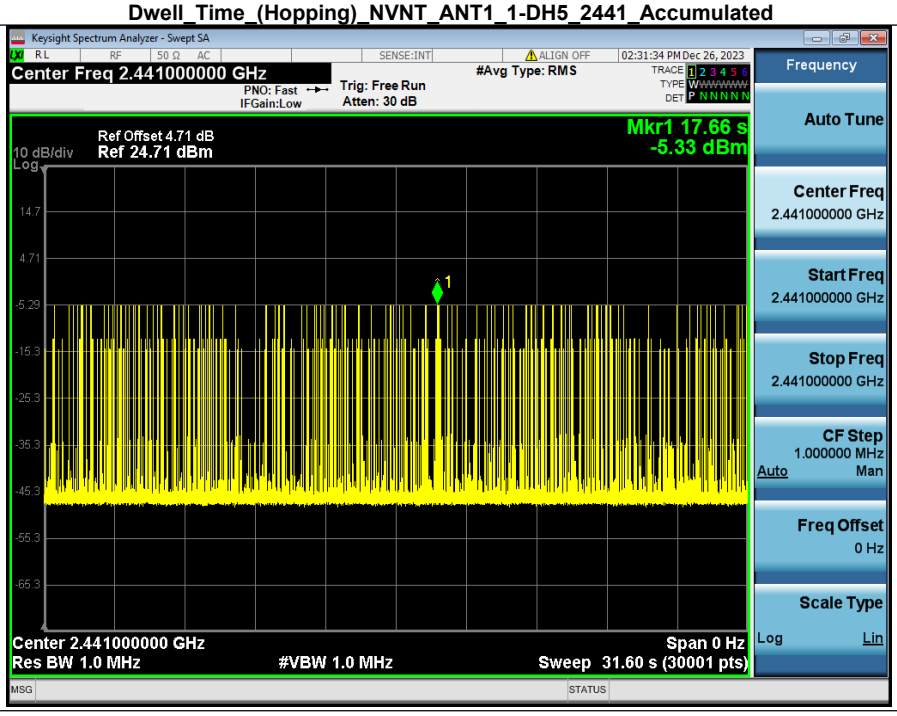
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH3_2441_Accumulated



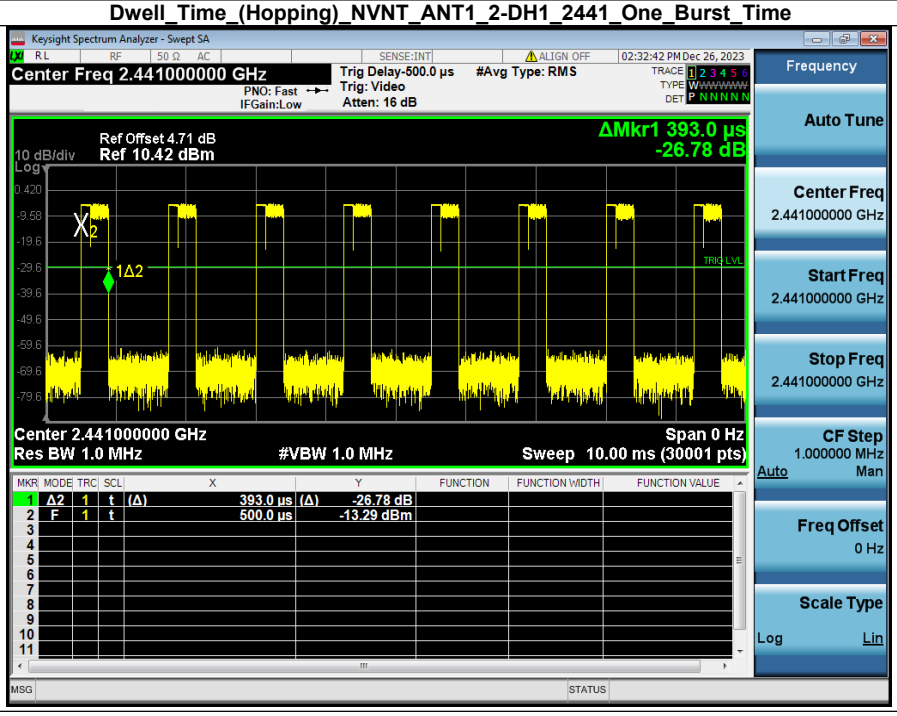
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH5_2441_One_Burst_Time



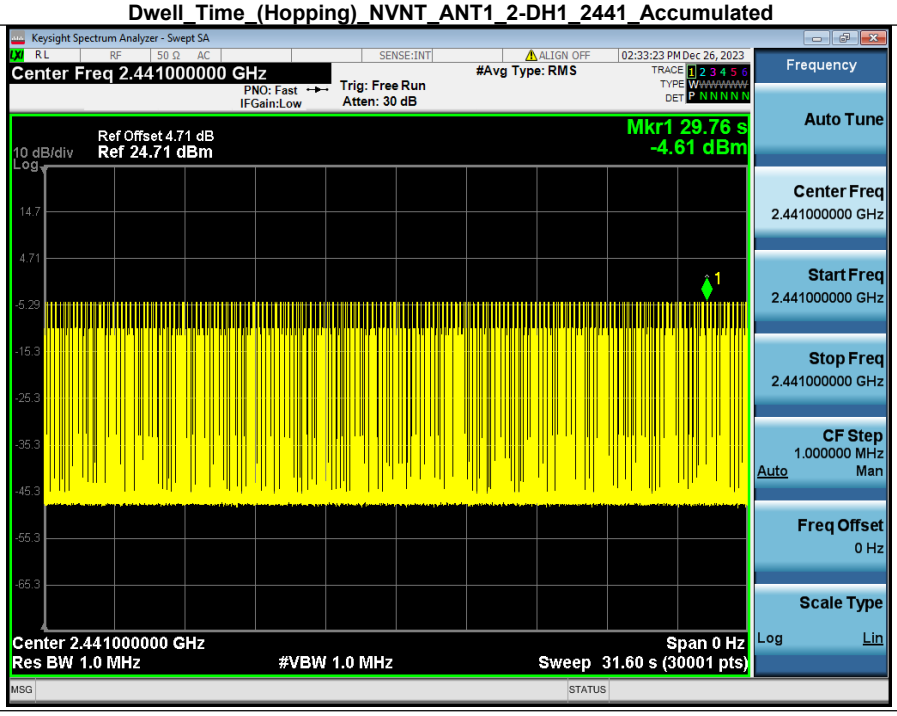
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH5_2441_Accumulated



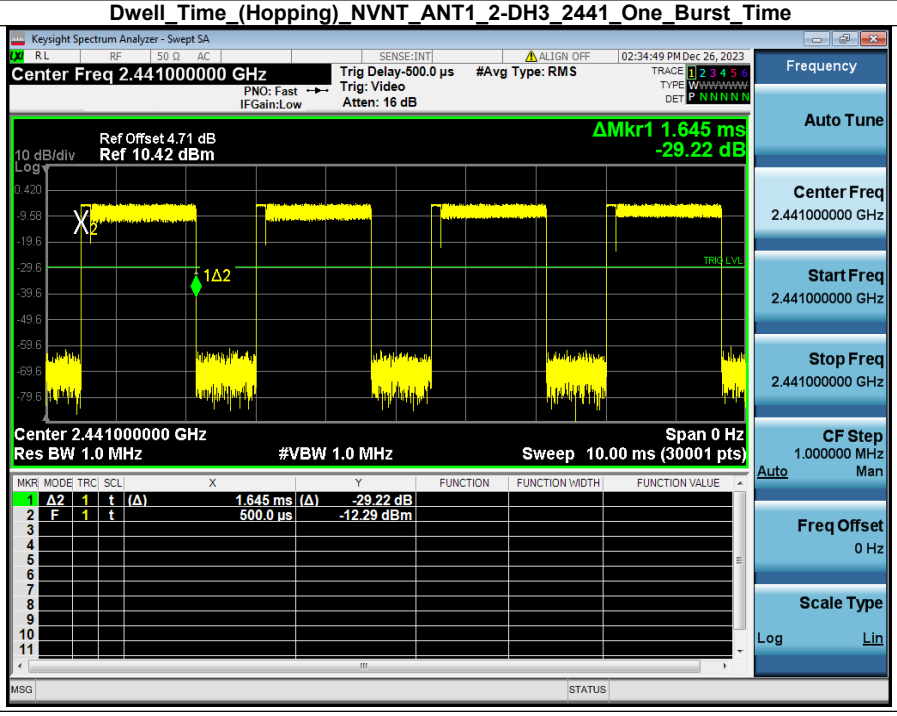
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH1_2441_One_Burst_Time



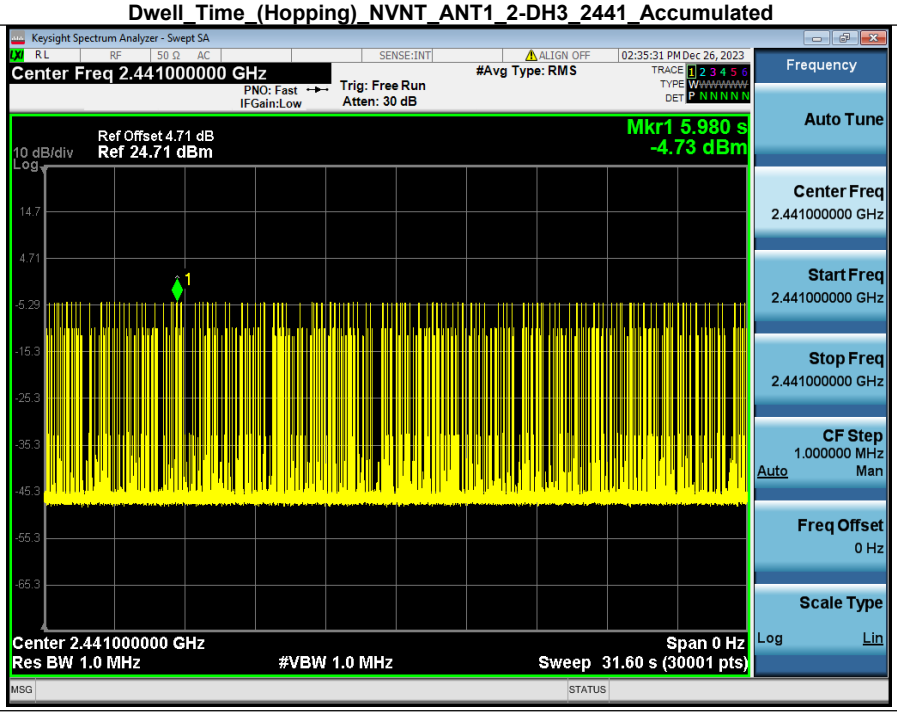
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH1_2441_Accumulated



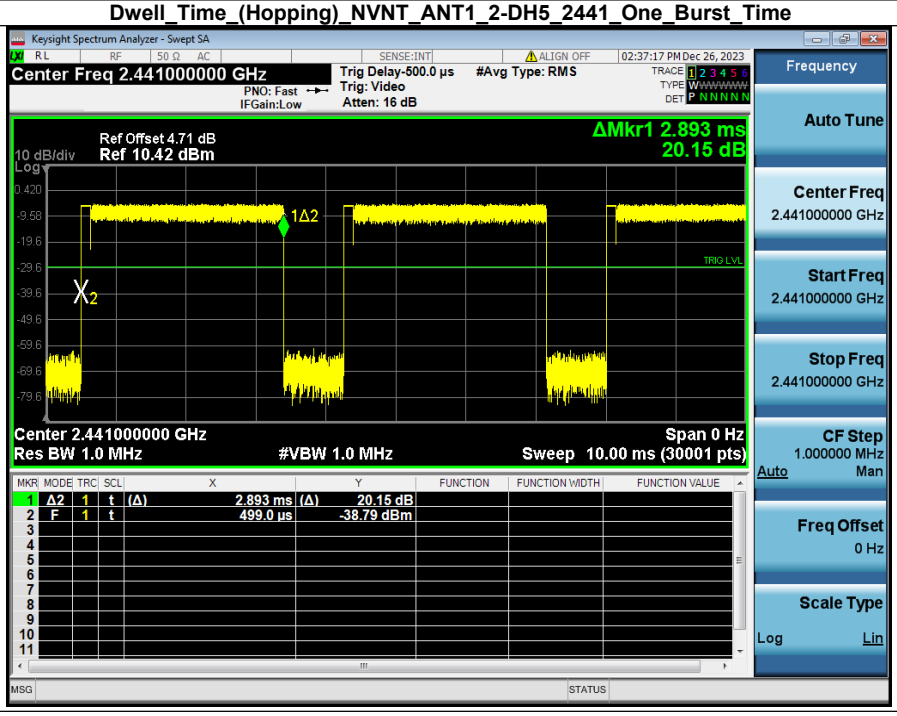
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH3_2441_One_Burst_Time



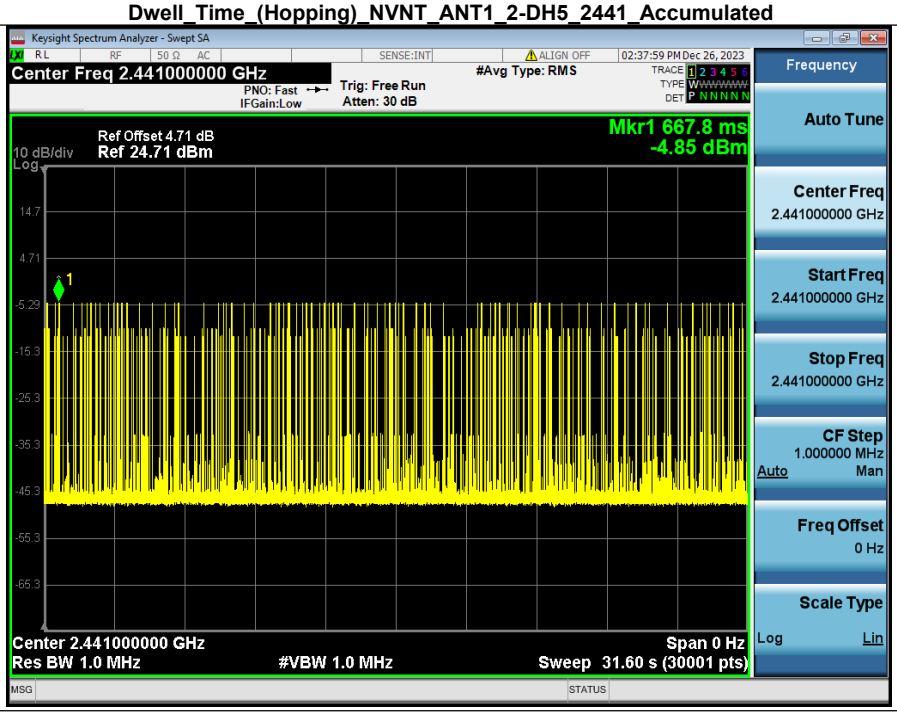
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH3_2441_Accumulated



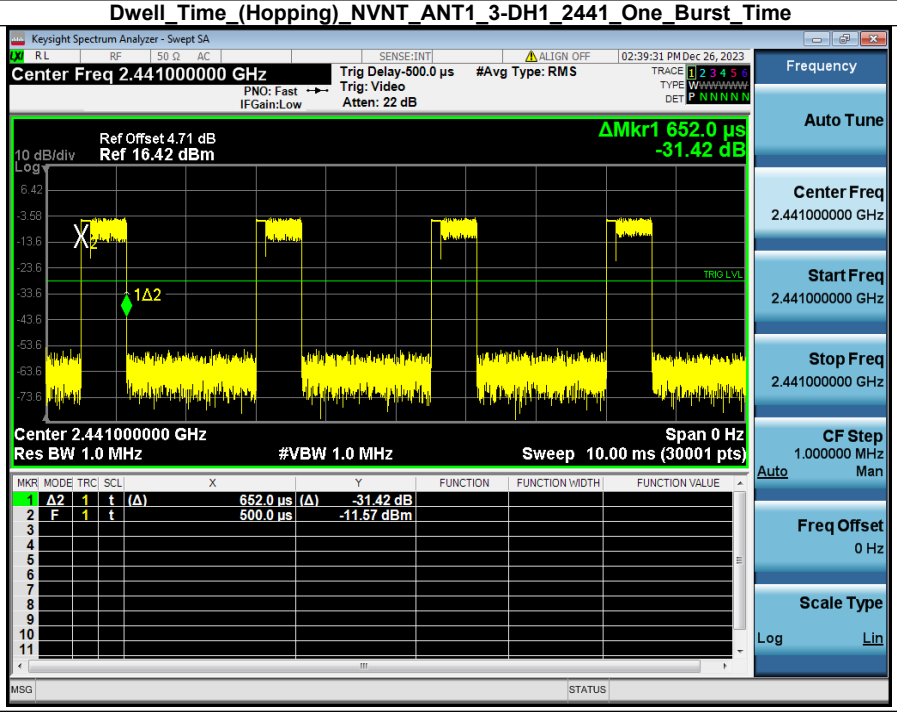
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH5_2441_One_Burst_Time



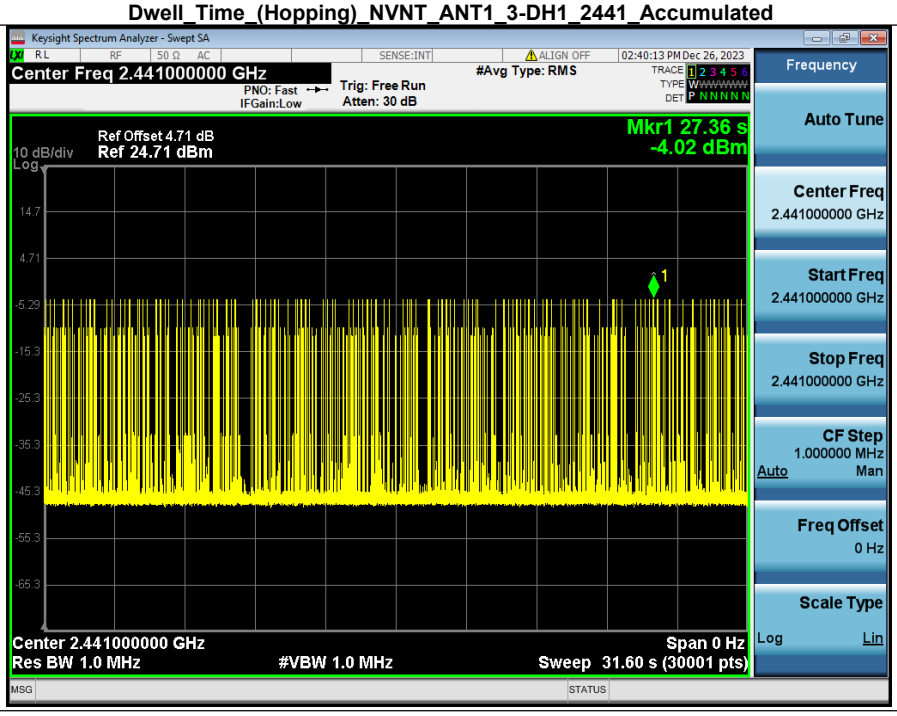
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH5_2441_Accumulated



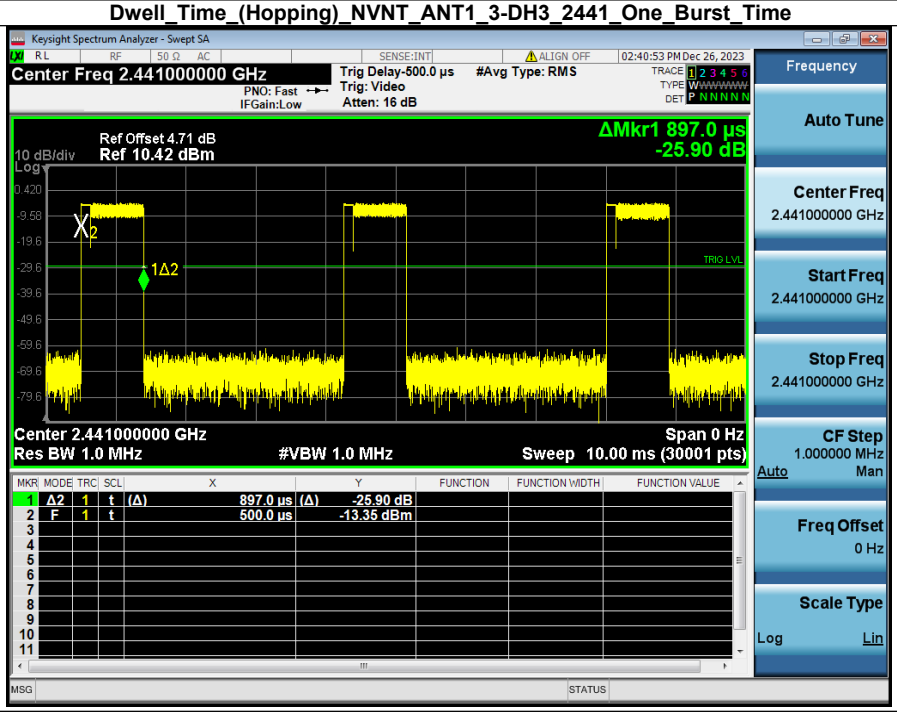
Dwell_Time_(Hopping)_NVNT_ANT1_3-DH1_2441_One_Burst_Time



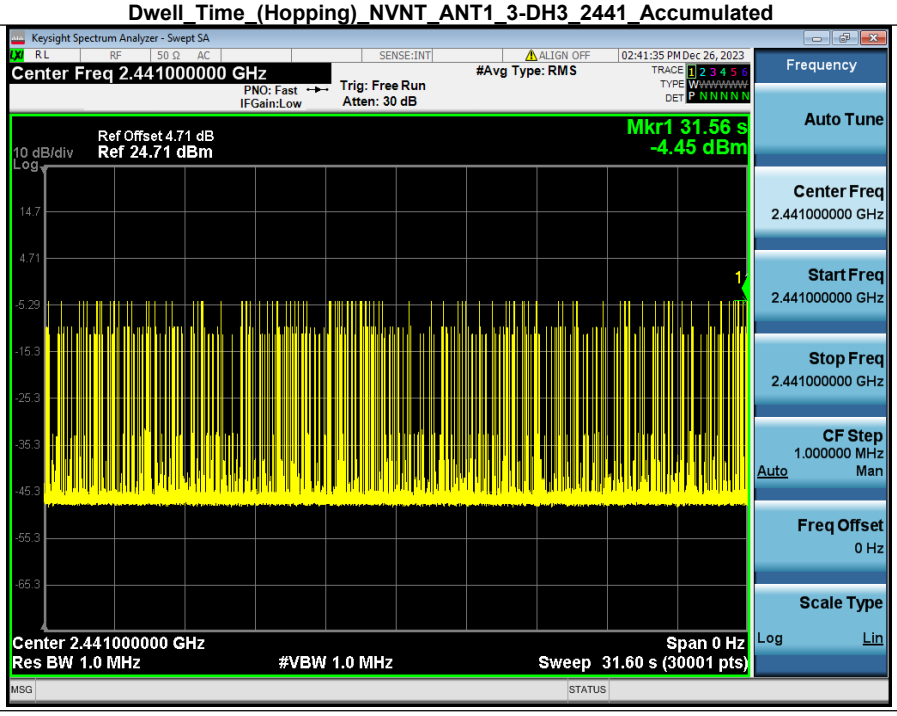
Dwell_Time_(Hopping)_NVNT_ANT1_3-DH1_2441_Accumulated



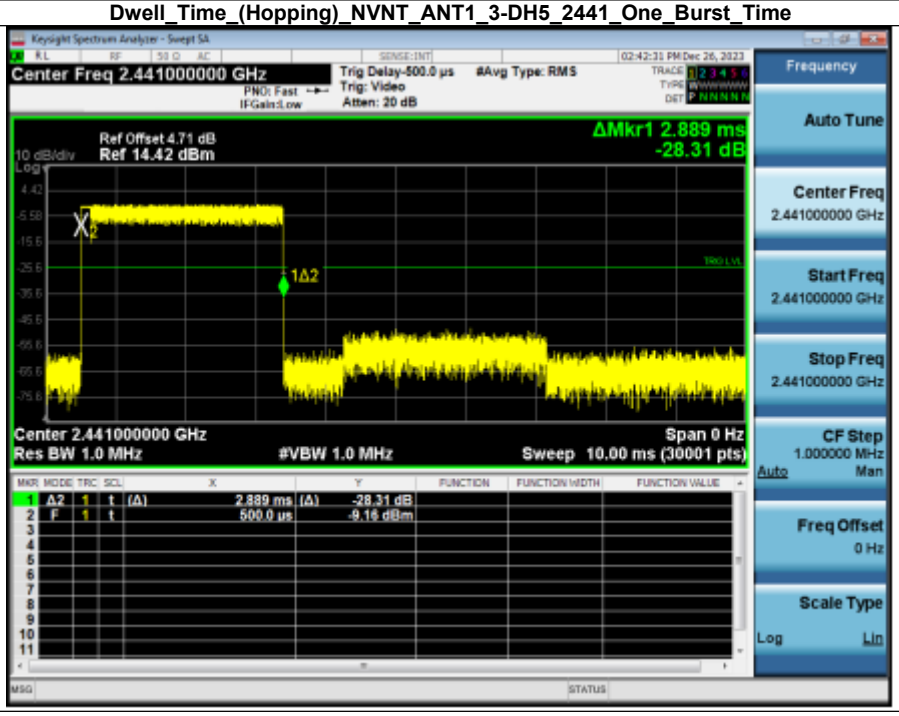
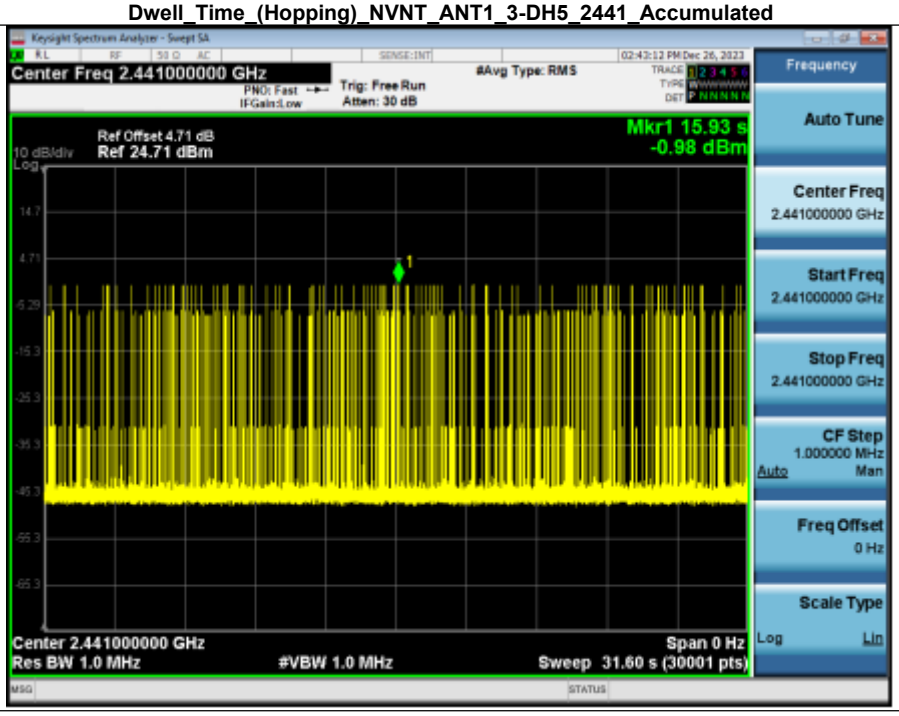
Dwell_Time_(Hopping)_NVNT_ANT1_3-DH3_2441_One_Burst_Time



Dwell_Time_(Hopping)_NVNT_ANT1_3-DH3_2441_Accumulated



Dwell_Time_(Hopping)_NVNT_ANT1_3-DH5_2441_One_Burst_Time



Dwell_Time_(Hopping)_NVNT_ANT1_3-DH5_2441_Accumulated