

FCC TEST DATA

FCC ID: 2A5N2-A39

Product: Bluetooth headset

Model Name : A39

Table of Contents

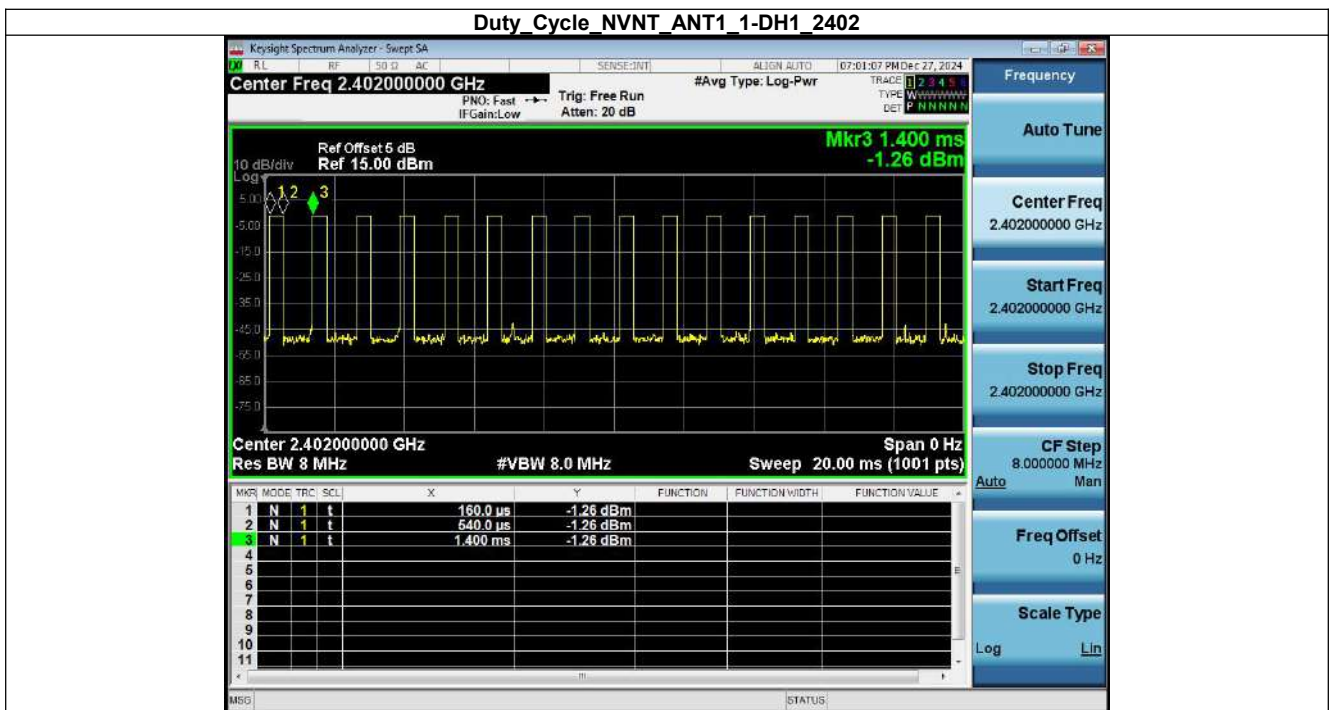
1. Duty Cycle	3
2. -20dB Bandwidth	8
3. 99% Occupied Bandwidth	13
4. Peak Output Power	18
5. Spurious Emissions	23
6. Bandedge	32
7. Carrier Frequencies Separation (Hopping)	45
8. Number of Hopping Channel (Hopping)	50
9. Dwell Time (Hopping)	52

FCC ID EDR

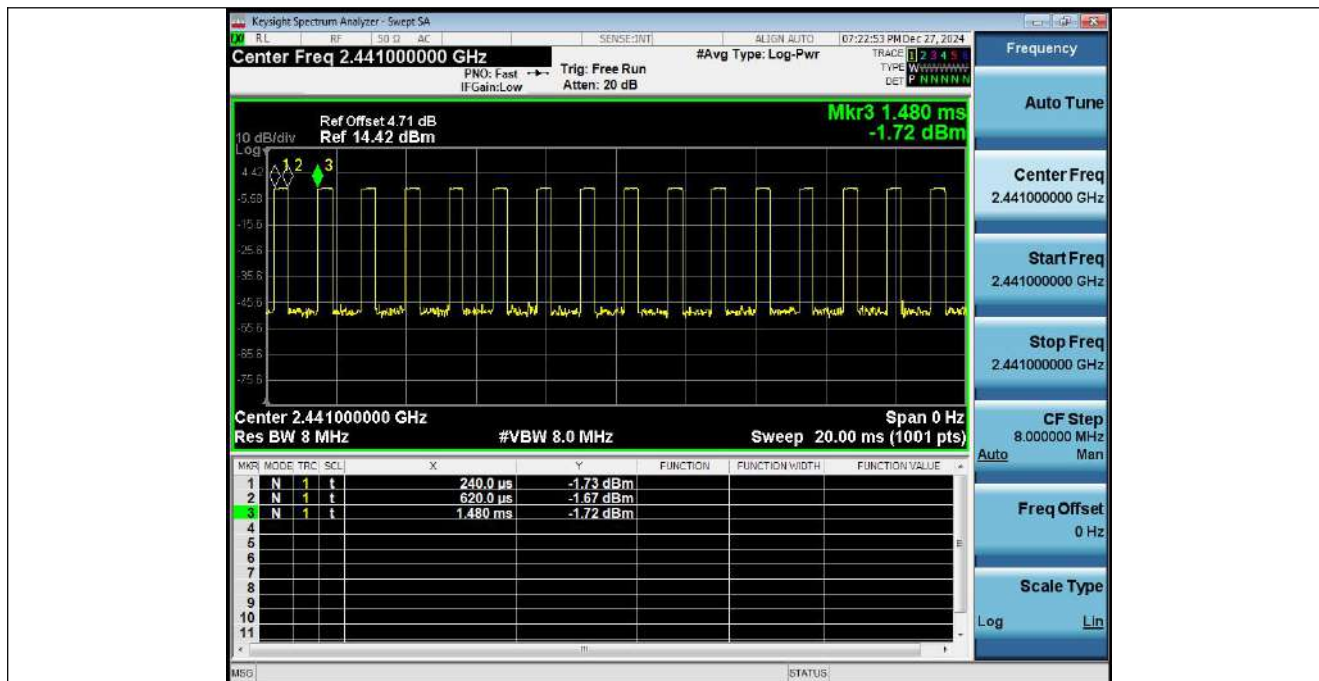
FCC_BT (Part15.247) Test Data

1. Duty Cycle

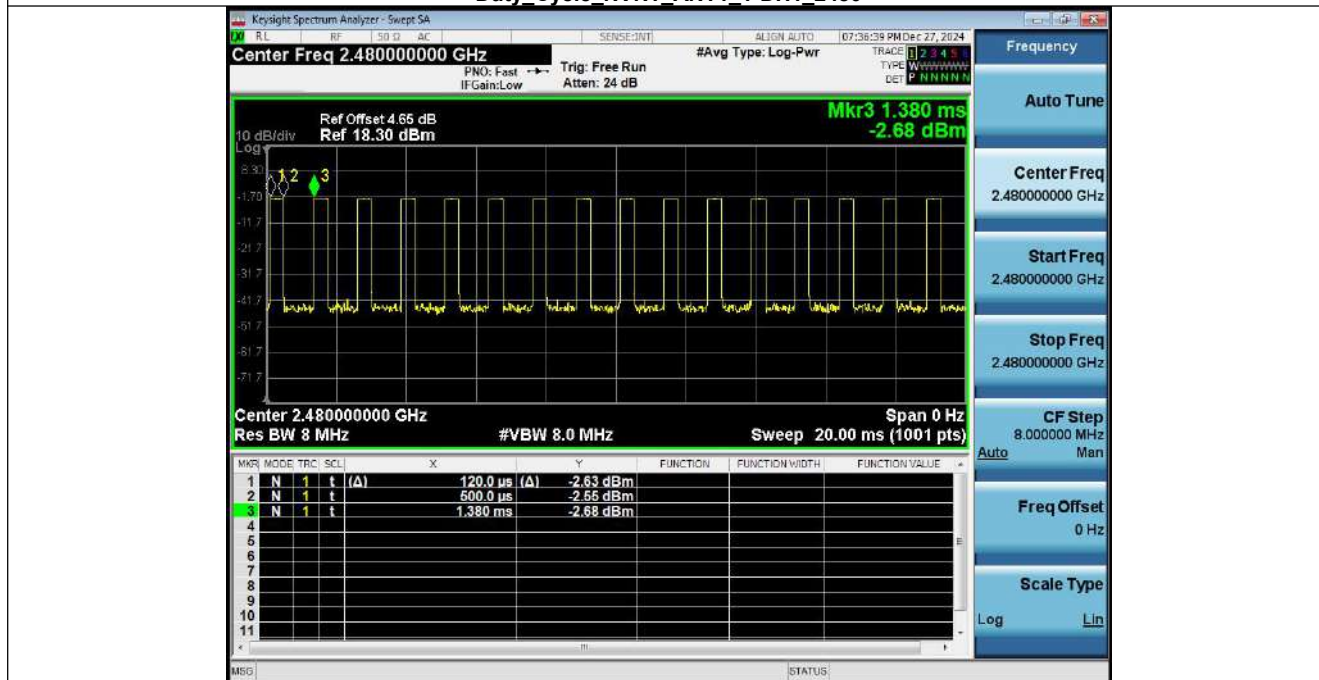
Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1-DH1	2402.00	30.65	5.14
NVNT	ANT1	1-DH1	2441.00	30.65	5.14
NVNT	ANT1	1-DH1	2480.00	30.16	5.21
NVNT	ANT1	2-DH1	2402.00	16.13	7.92
NVNT	ANT1	2-DH1	2441.00	31.75	4.98
NVNT	ANT1	2-DH1	2480.00	30.65	5.14
NVNT	ANT1	3-DH1	2402.00	31.75	4.98
NVNT	ANT1	3-DH1	2441.00	33.33	4.77
NVNT	ANT1	3-DH1	2480.00	33.33	4.77



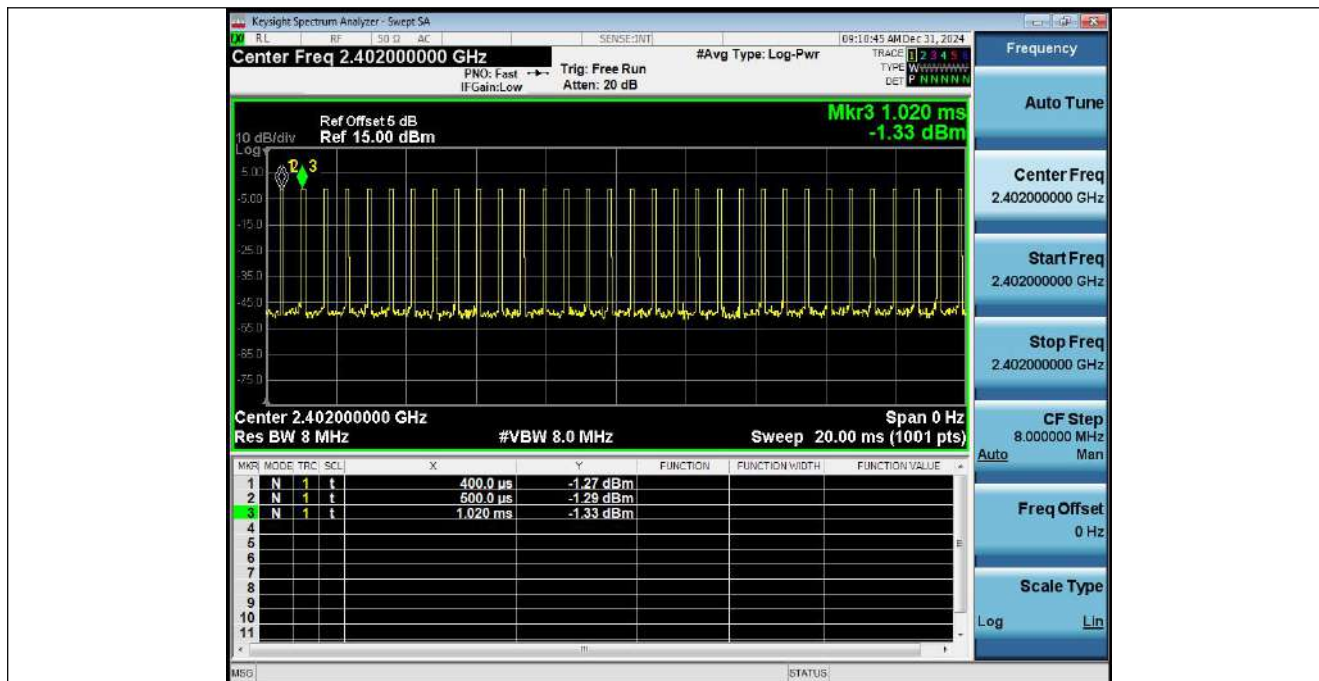
Duty_Cycle_NVNT_ANT1_1-DH1_2441



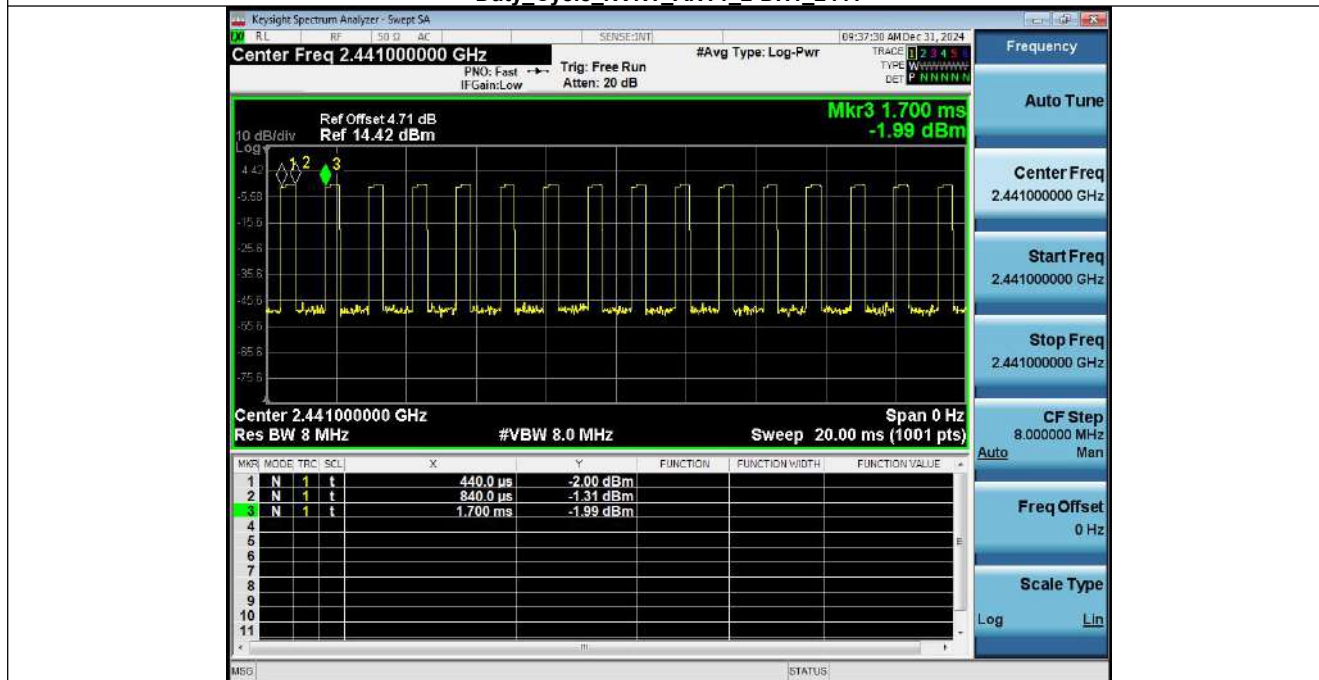
Duty Cycle_NVNT_ANT1 1-DH1_2480



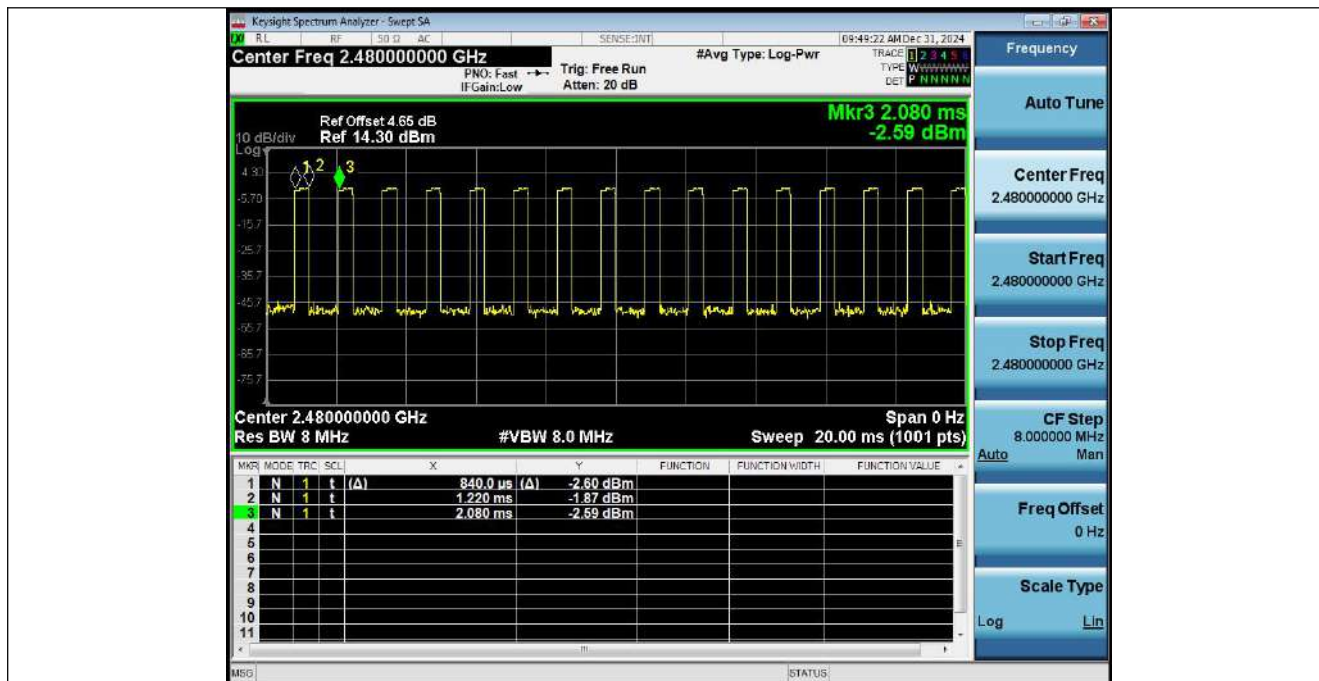
Duty Cycle_NVNT_ANT1 2-DH1_2402



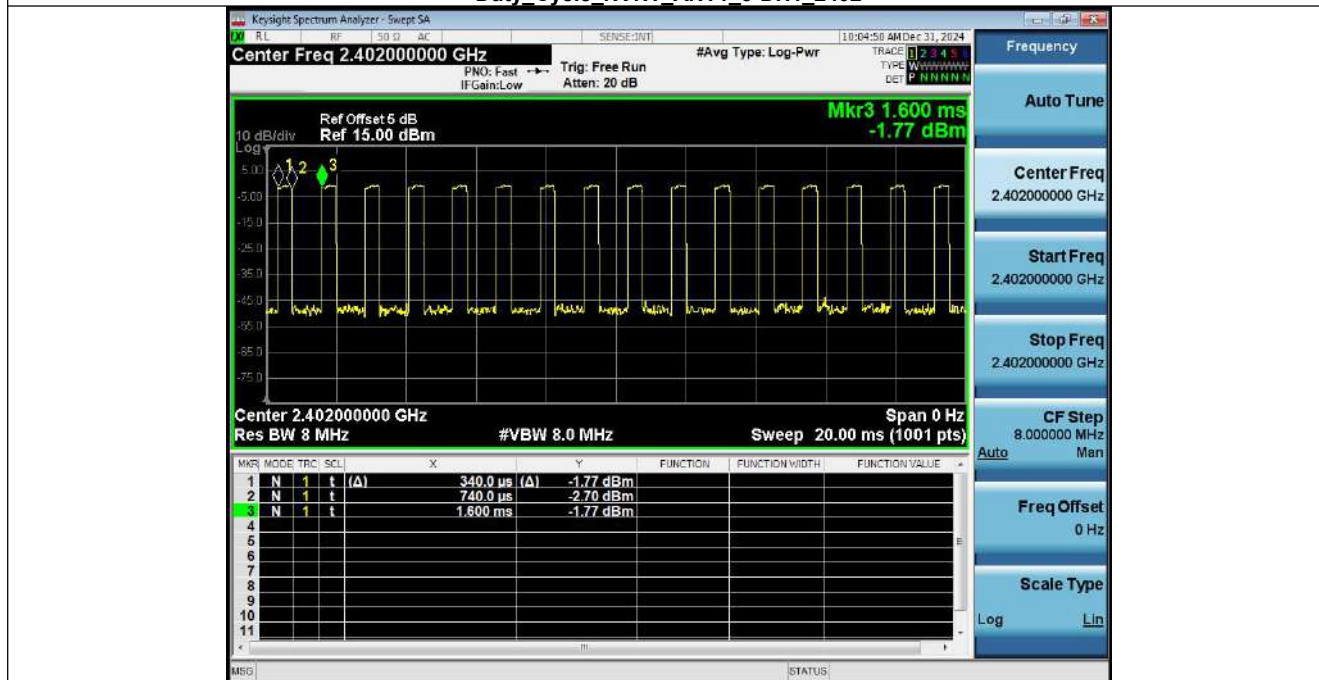
Duty Cycle_NVNT_ANT1_2-DH1_2441



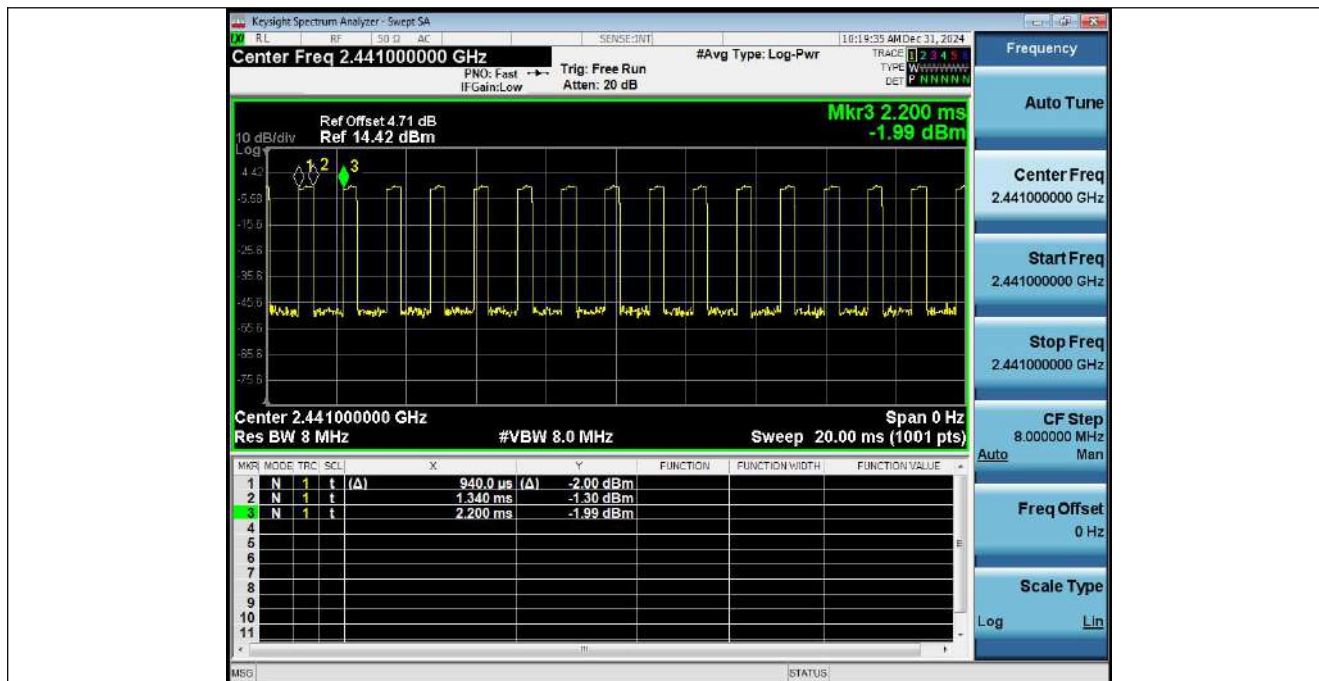
Duty Cycle_NVNT_ANT1_2-DH1_2480



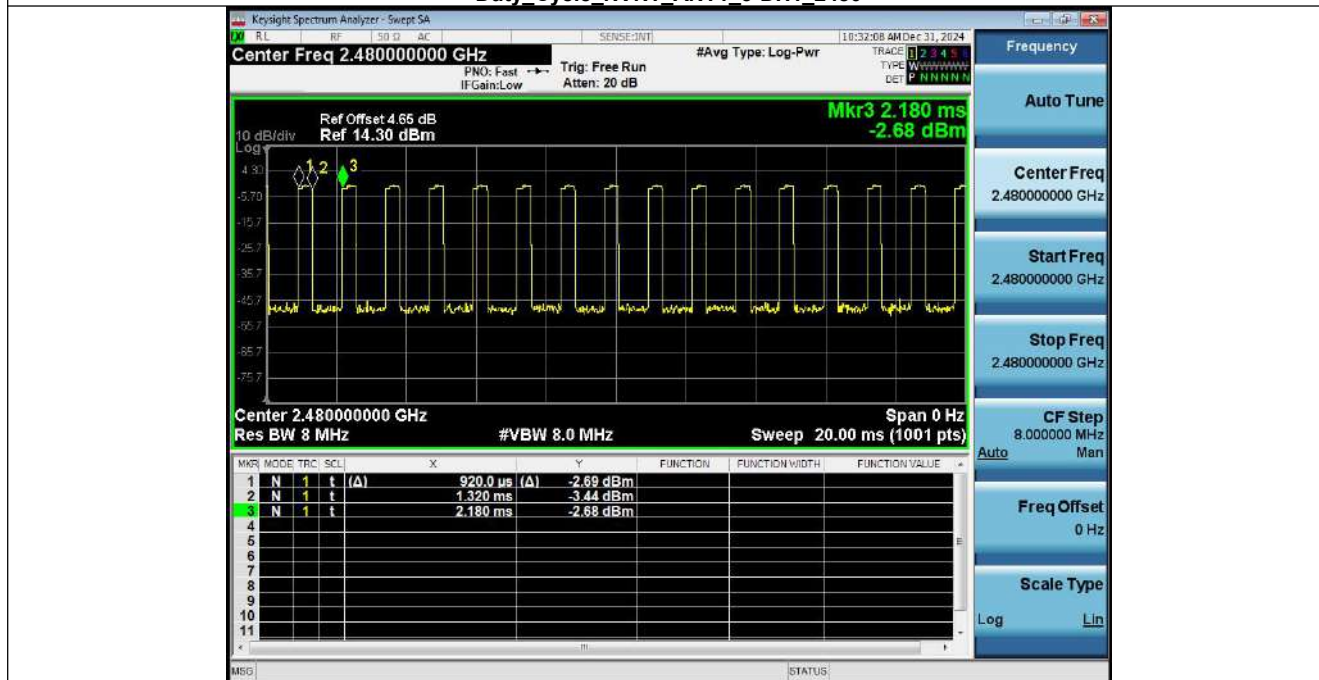
Duty Cycle_NVNT_ANT1_3-DH1_2402



Duty Cycle_NVNT_ANT1_3-DH1_2441

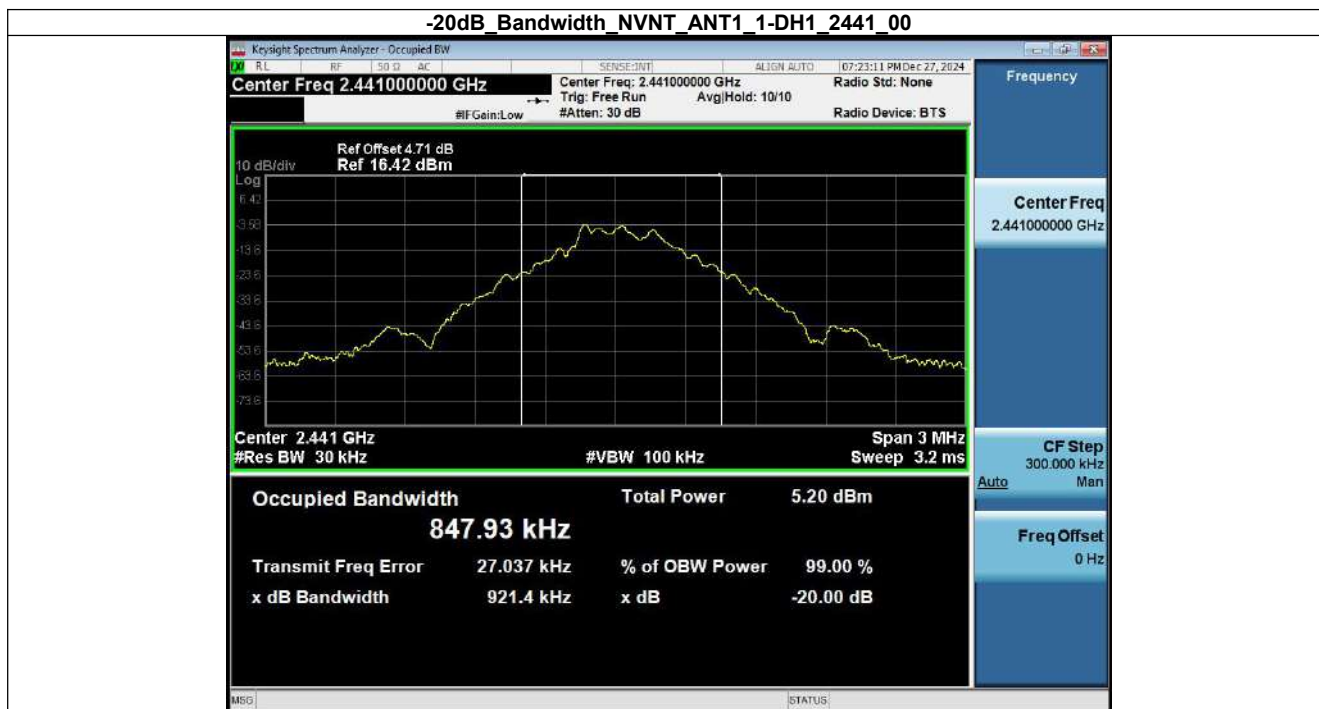


Duty Cycle_NVNT_ANT1 3-DH1_2480



2. -20dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH1	2402.00	0.879	No
NVNT	ANT1	1-DH1	2441.00	0.921	No
NVNT	ANT1	1-DH1	2480.00	0.925	No
NVNT	ANT1	2-DH1	2402.00	1.271	Yes
NVNT	ANT1	2-DH1	2441.00	1.274	Yes
NVNT	ANT1	2-DH1	2480.00	1.271	Yes
NVNT	ANT1	3-DH1	2402.00	1.225	Yes
NVNT	ANT1	3-DH1	2441.00	1.227	Yes
NVNT	ANT1	3-DH1	2480.00	1.251	Yes



-20dB_Bandwidth_NVNT_ANT1_1-DH1_2480_00



-20dB_Bandwidth_NVNT_ANT1_2-DH1_2402_00



-20dB_Bandwidth_NVNT_ANT1_2-DH1_2441_00



-20dB_Bandwidth_NVNT_ANT1_2-DH1_2480_00



-20dB_Bandwidth_NVNT_ANT1_3-DH1_2402_00



-20dB_Bandwidth_NVNT_ANT1_3-DH1_2441_00



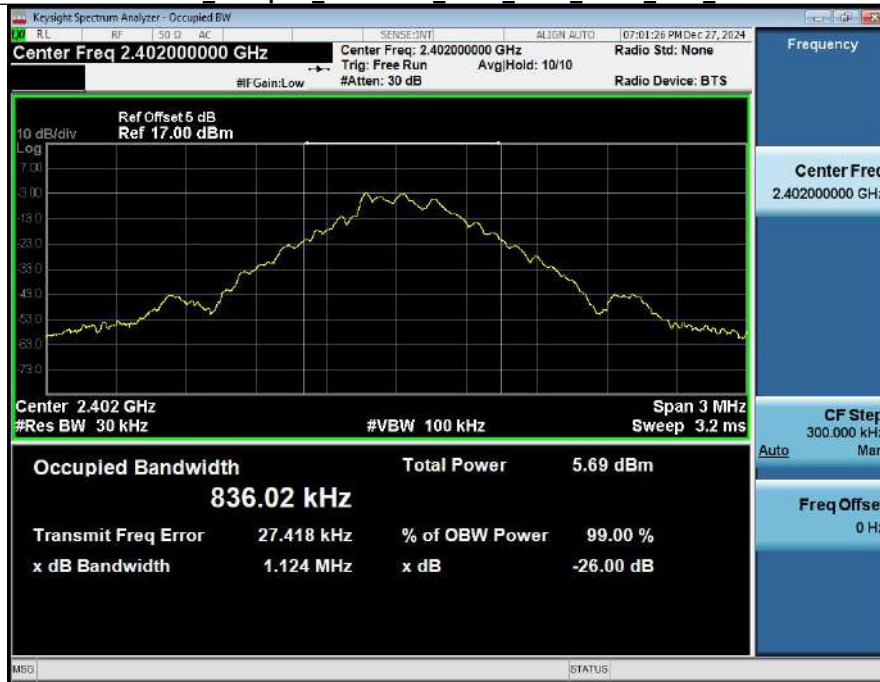
-20dB_Bandwidth_NVNT_ANT1_3-DH1_2480_00



3. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	1-DH1	2402.00	0.836
NVNT	ANT1	1-DH1	2441.00	0.848
NVNT	ANT1	1-DH1	2480.00	0.850
NVNT	ANT1	2-DH1	2402.00	1.173
NVNT	ANT1	2-DH1	2441.00	1.174
NVNT	ANT1	2-DH1	2480.00	1.175
NVNT	ANT1	3-DH1	2402.00	1.151
NVNT	ANT1	3-DH1	2441.00	1.155
NVNT	ANT1	3-DH1	2480.00	1.158

99% Occupied Bandwidth NVNT ANT1 1-DH1 2402 00



99% Occupied Bandwidth NVNT ANT1 1-DH1 2441 00



99% Occupied Bandwidth NVNT_ANT1_1-DH1_2480_00



99% Occupied Bandwidth NVNT_ANT1_2-DH1_2402_00



99% Occupied Bandwidth NVNT_ANT1_2-DH1_2441_00



99% Occupied Bandwidth NVNT_ANT1_2-DH1_2480_00



99% Occupied Bandwidth NVNT_ANT1_3-DH1_2402_00



99% Occupied Bandwidth NVNT_ANT1_3-DH1_2441_00



99% Occupied Bandwidth NVNT_ANT1_3-DH1_2480_00



4. 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	-1.21	0.76	1000	Pass
NVNT	ANT1	1-DH1	2441.00	-1.66	0.68	1000	Pass
NVNT	ANT1	1-DH1	2480.00	-2.55	0.56	1000	Pass
NVNT	ANT1	2-DH1	2402.00	-1.26	0.75	125	Pass
NVNT	ANT1	2-DH1	2441.00	-1.09	0.78	125	Pass
NVNT	ANT1	2-DH1	2480.00	-1.77	0.67	125	Pass
NVNT	ANT1	3-DH1	2402.00	-0.49	0.89	125	Pass
NVNT	ANT1	3-DH1	2441.00	-0.62	0.87	125	Pass
NVNT	ANT1	3-DH1	2480.00	-1.25	0.75	125	Pass

Peak_Output_Power_NVNT_ANT1_1-DH1_2402_00



Peak_Output_Power_NVNT_ANT1_1-DH1_2441_00



Peak_Output_Power_NVNT_ANT1_1-DH1_2480_00



Peak_Output_Power_NVNT_ANT1_2-DH1_2402_00



Peak_Output_Power_NVNT_ANT1_2-DH1_2441_00



Peak Output Power NVNT_ANT1_2-DH1_2480_00



Peak Output Power NVNT_ANT1_3-DH1_2402_00



Peak Output Power NVNT_ANT1_3-DH1_2441_00



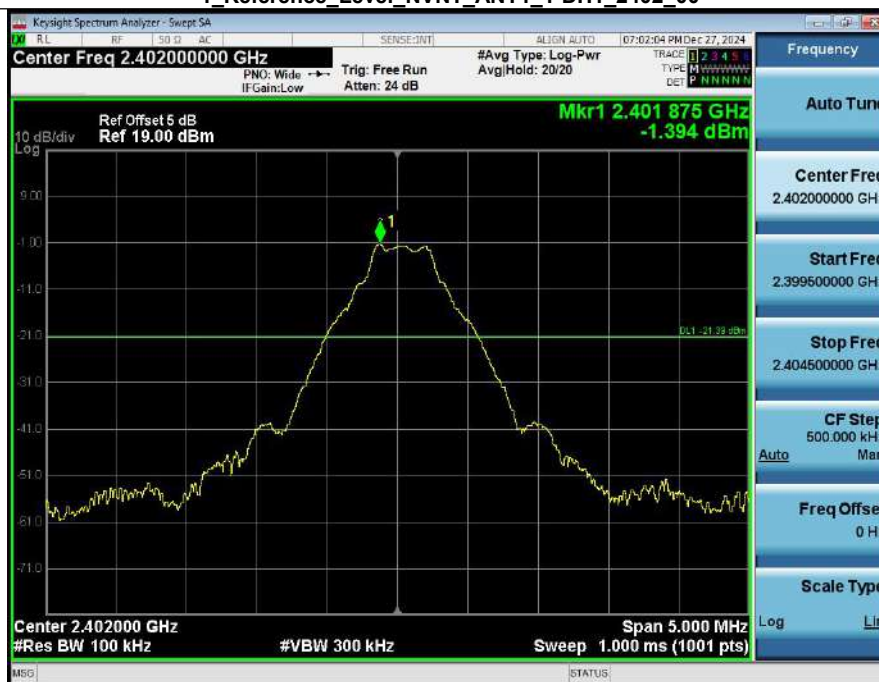
Peak Output Power NVNT_ANT1_3-DH1_2480_00



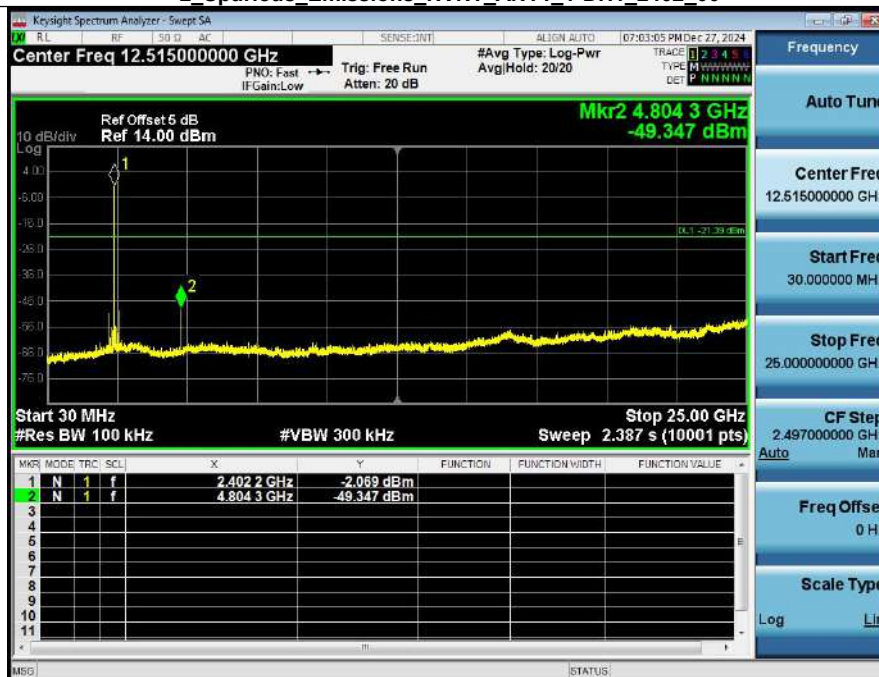
5. Spurious Emissions

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH1	2402.00	-1.394	-49.347	-21.394	Pass
NVNT	ANT1	1-DH1	2441.00	-1.776	-50.436	-21.776	Pass
NVNT	ANT1	1-DH1	2480.00	-2.740	-46.991	-22.740	Pass
NVNT	ANT1	2-DH1	2402.00	-1.357	-31.633	-21.357	Pass
NVNT	ANT1	2-DH1	2441.00	-1.991	-46.811	-21.991	Pass
NVNT	ANT1	2-DH1	2480.00	-2.683	-52.712	-22.683	Pass
NVNT	ANT1	3-DH1	2402.00	-1.846	-49.181	-21.846	Pass
NVNT	ANT1	3-DH1	2441.00	-2.053	-49.175	-22.053	Pass
NVNT	ANT1	3-DH1	2480.00	-2.827	-46.588	-22.827	Pass

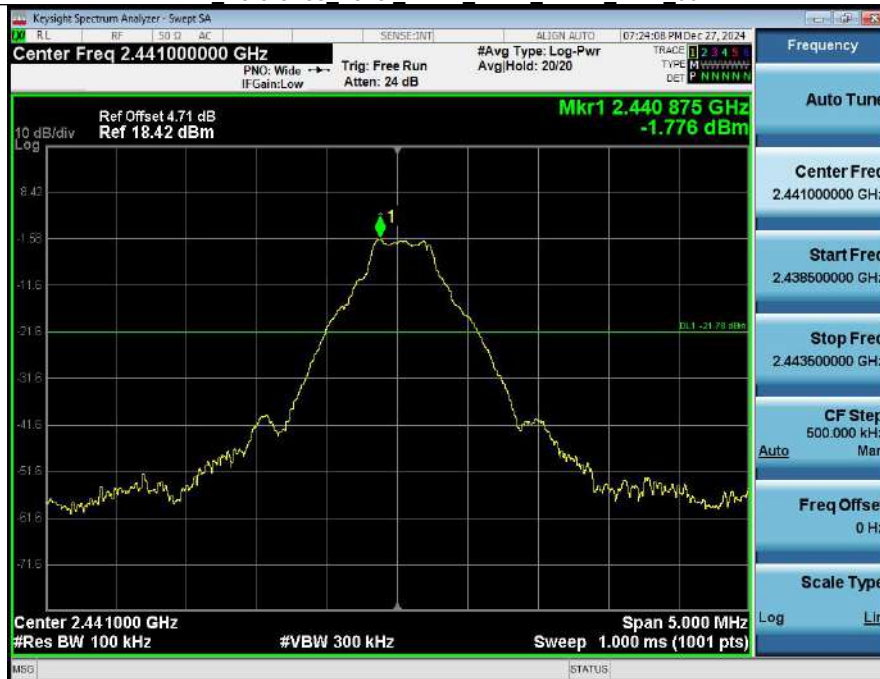
1_Reference_Level_NVNT_ANT1_1-DH1_2402_00



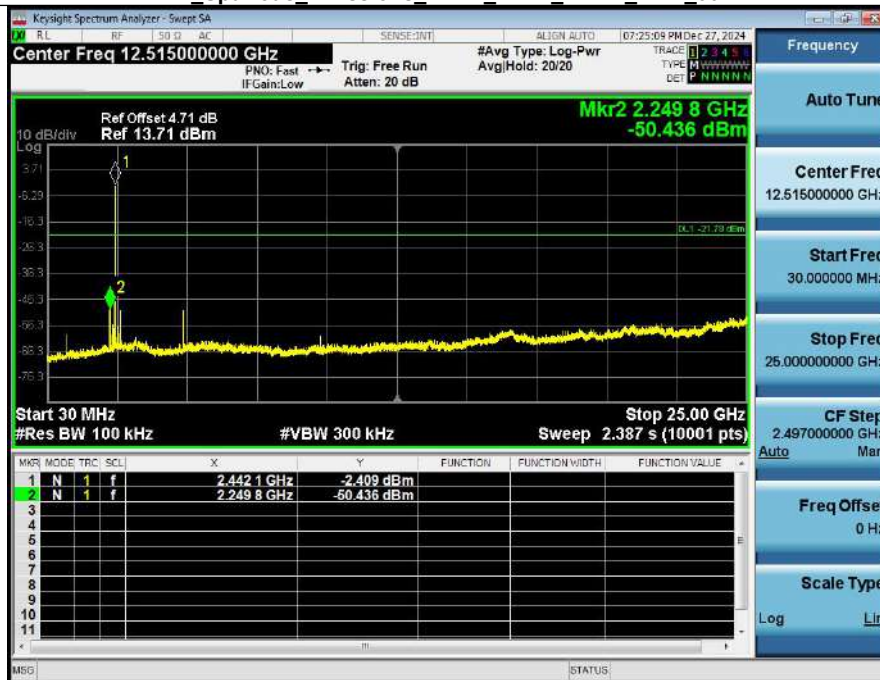
2_Spurious_Emissions_NVNT_ANT1_1-DH1_2402_00



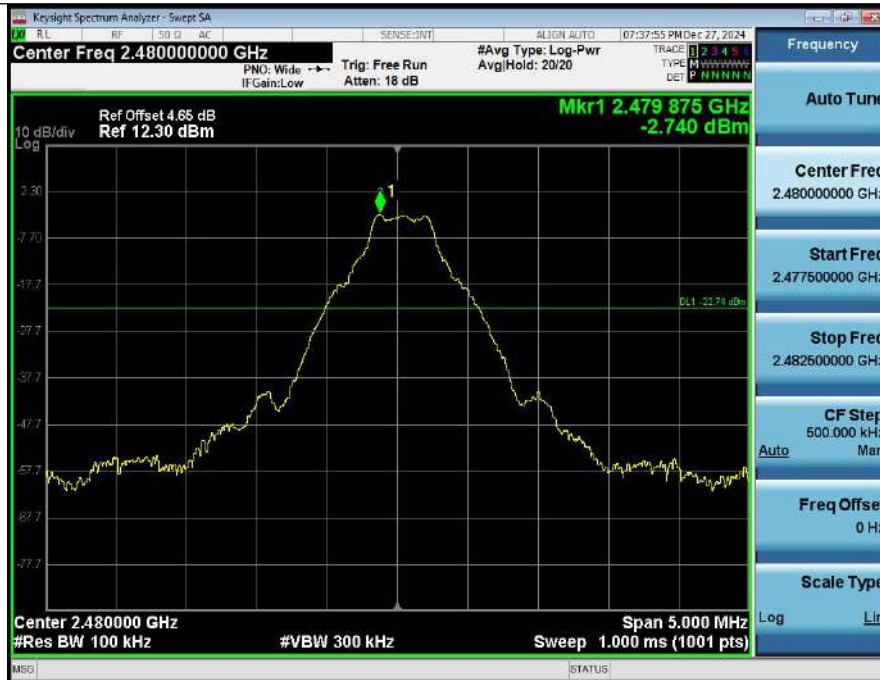
1 Reference Level NVNT ANT1 1-DH1 2441 00



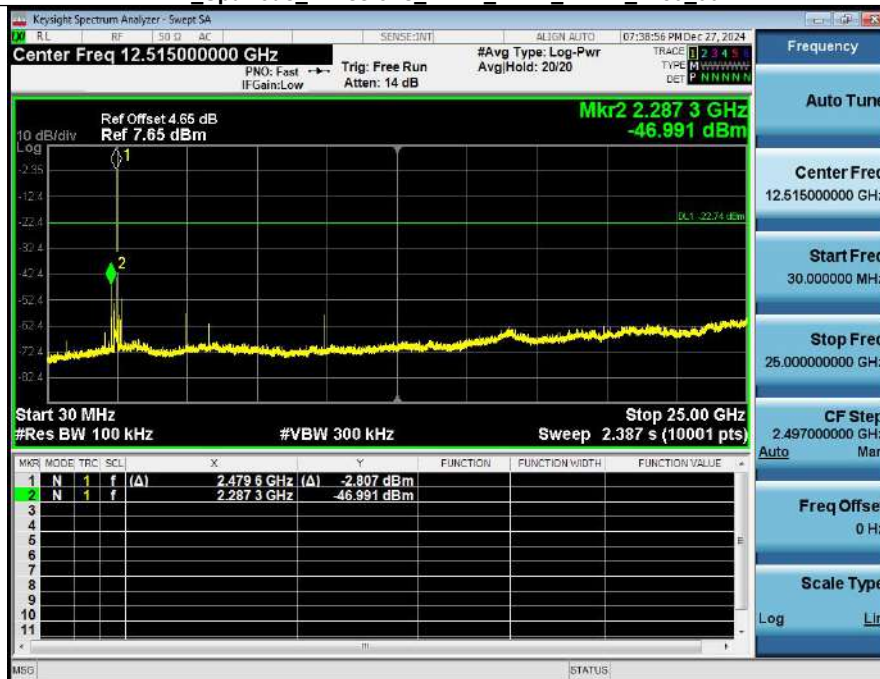
2 Spurious Emissions NVNT ANT1 1-DH1 2441 00



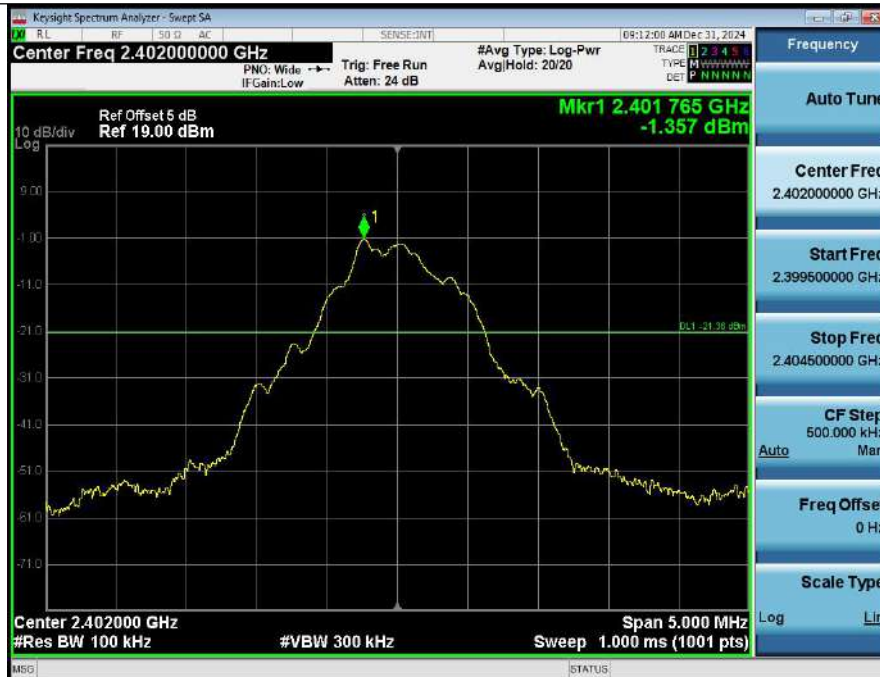
1 Reference Level NVNT ANT1 1-DH1 2480 00



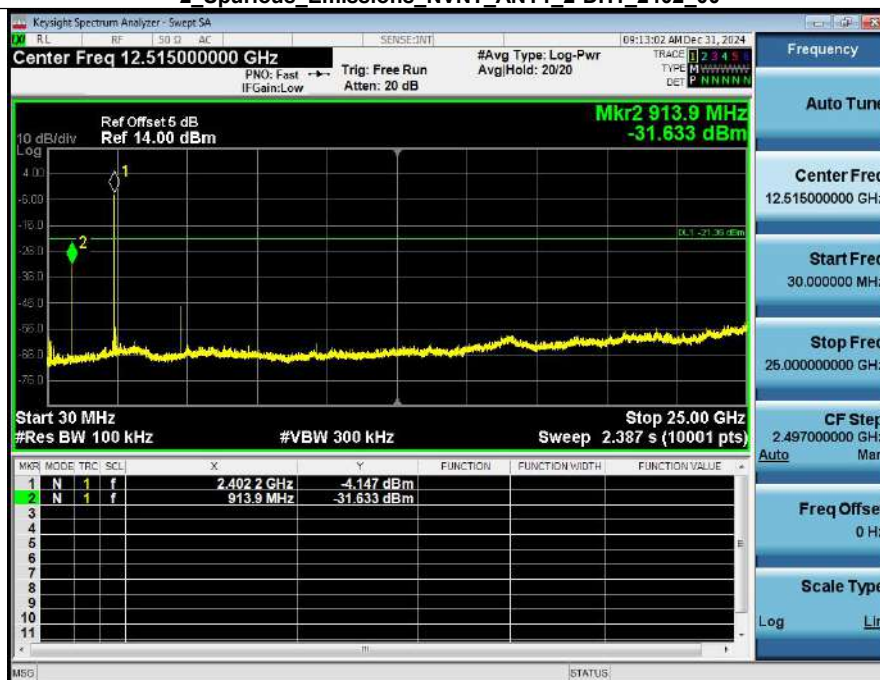
2_Spurious_Emissions_NVNT_ANT1_1-DH1_2480_00



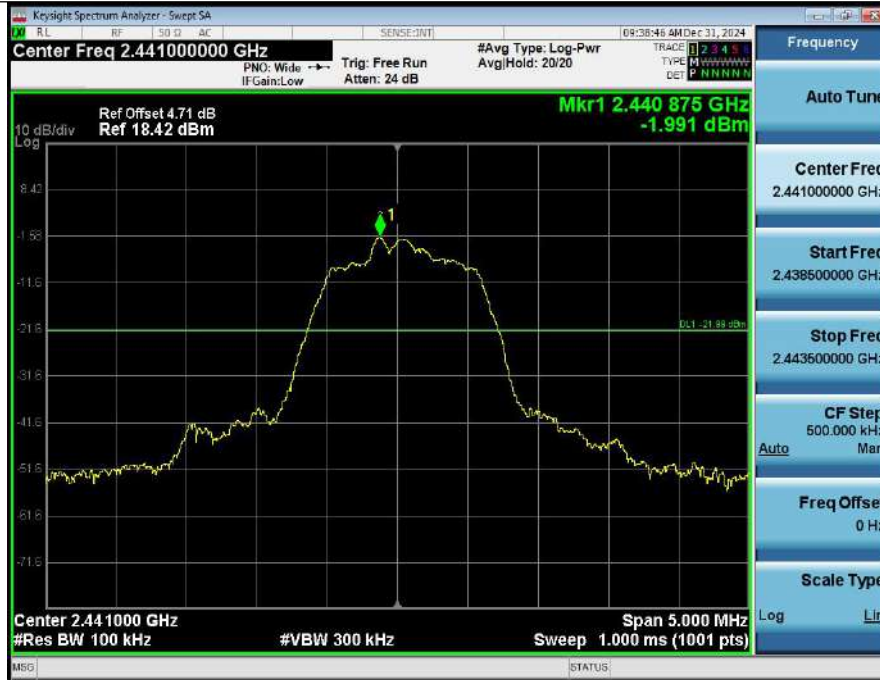
1_Reference_Level_NVNT_ANT1_2-DH1_2402_00



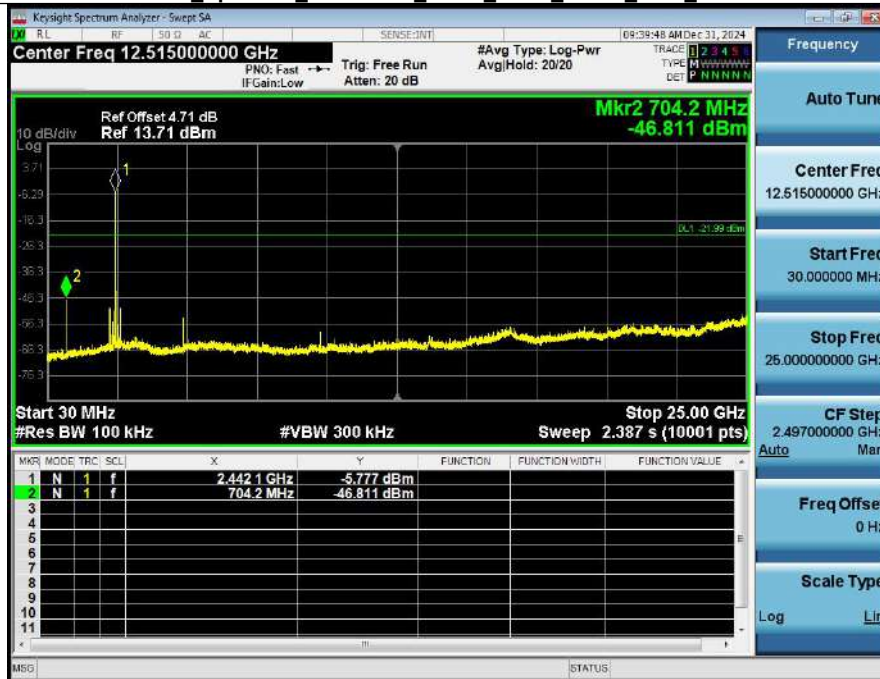
2_Spurious_Emissions_NVNT_ANT1_2-DH1_2402_00



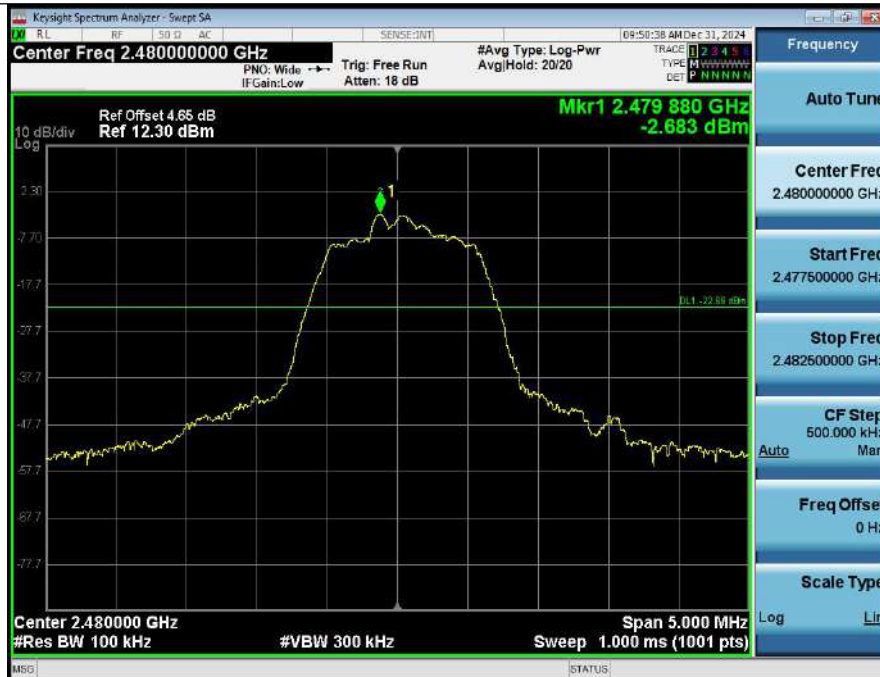
1_Reference_Level_NVNT_ANT1_2-DH1_2441_00



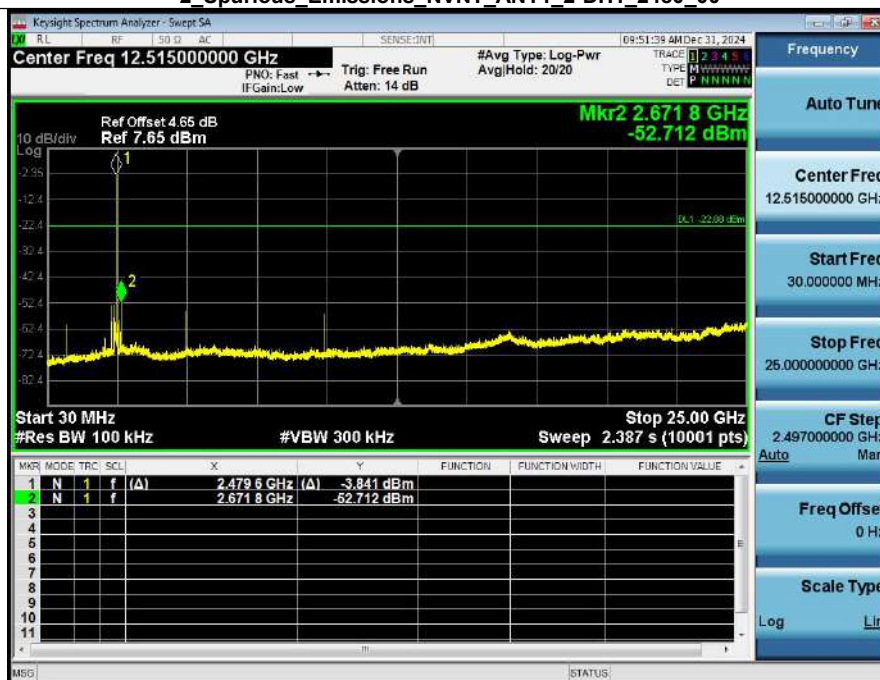
2_Spurious_Emissions_NVNT_ANT1_2-DH1_2441_00



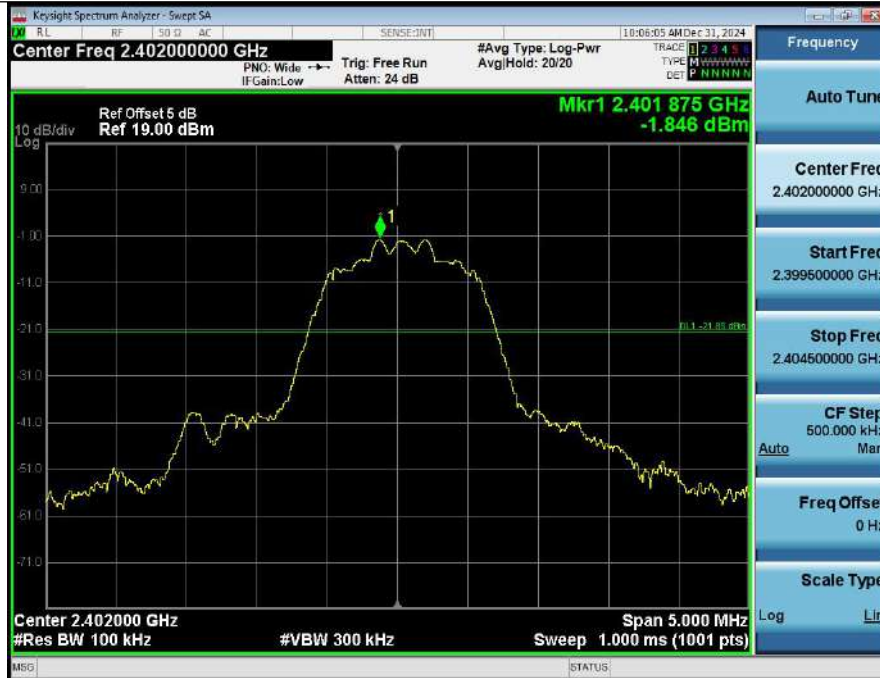
1_Reference_Level_NVNT_ANT1_2-DH1_2480_00



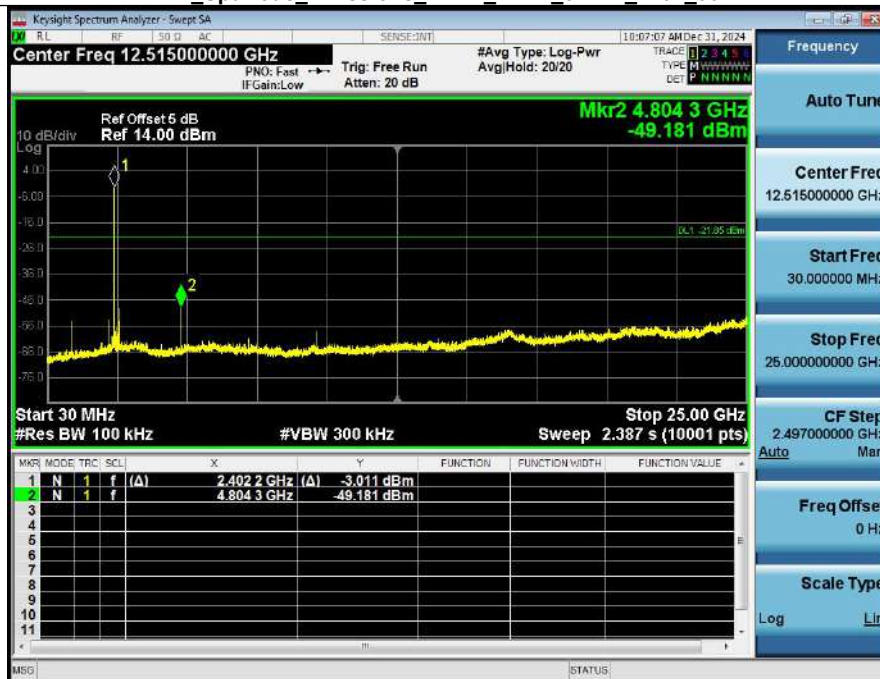
2_Spurious_Emissions_NVNT_ANT1_2-DH1_2480_00



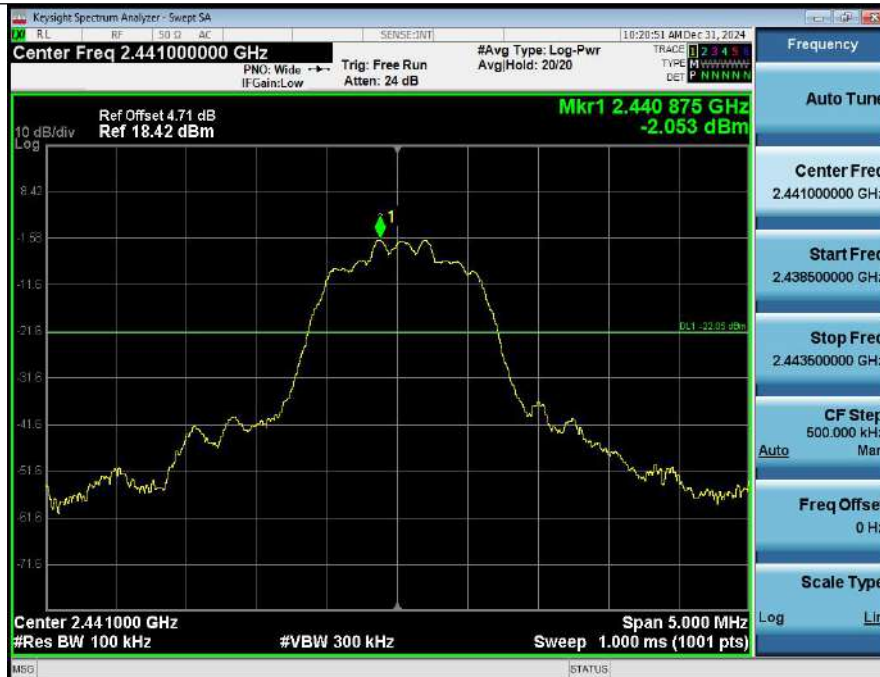
1_Reference_Level_NVNT_ANT1_3-DH1_2402_00



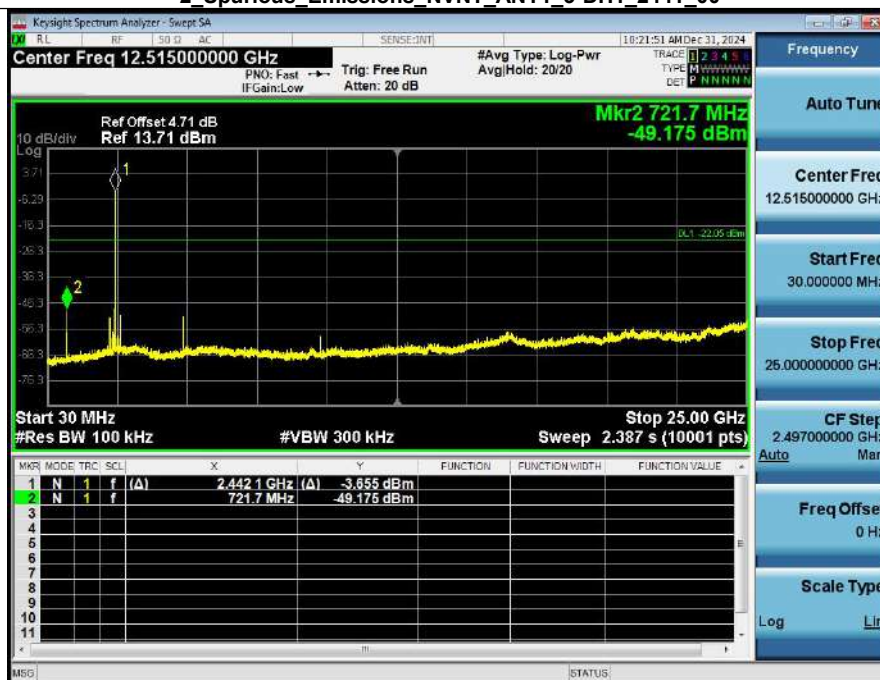
2 Spurious Emissions_NVNT_ANT1_3-DH1_2402_00



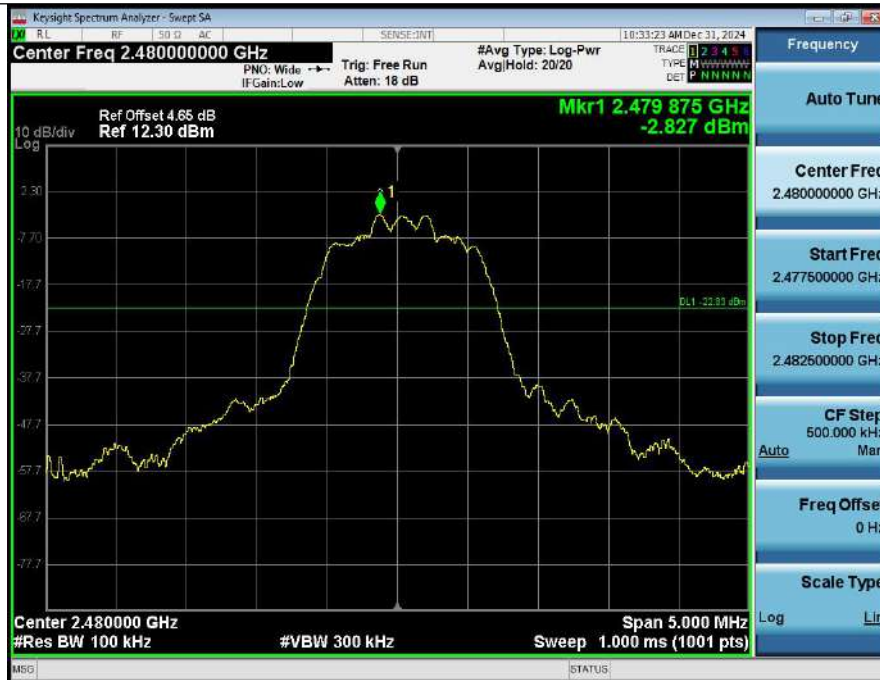
1 Reference_Level_NVNT_ANT1_3-DH1_2441_00



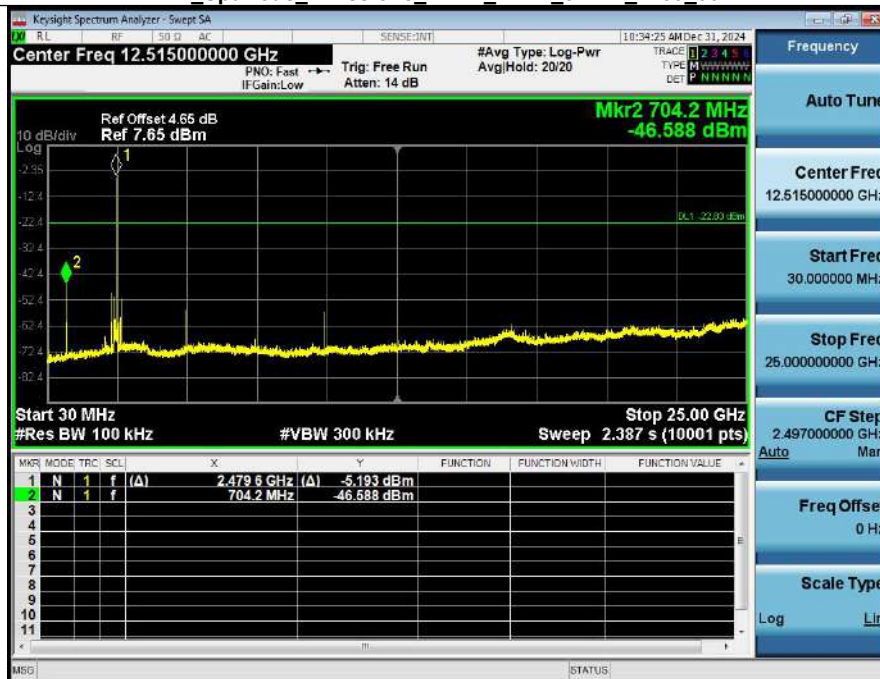
2_Spurious_Emissions_NVNT_ANT1_3-DH1_2441_00



1_Reference_Level_NVNT_ANT1_3-DH1_2480_00



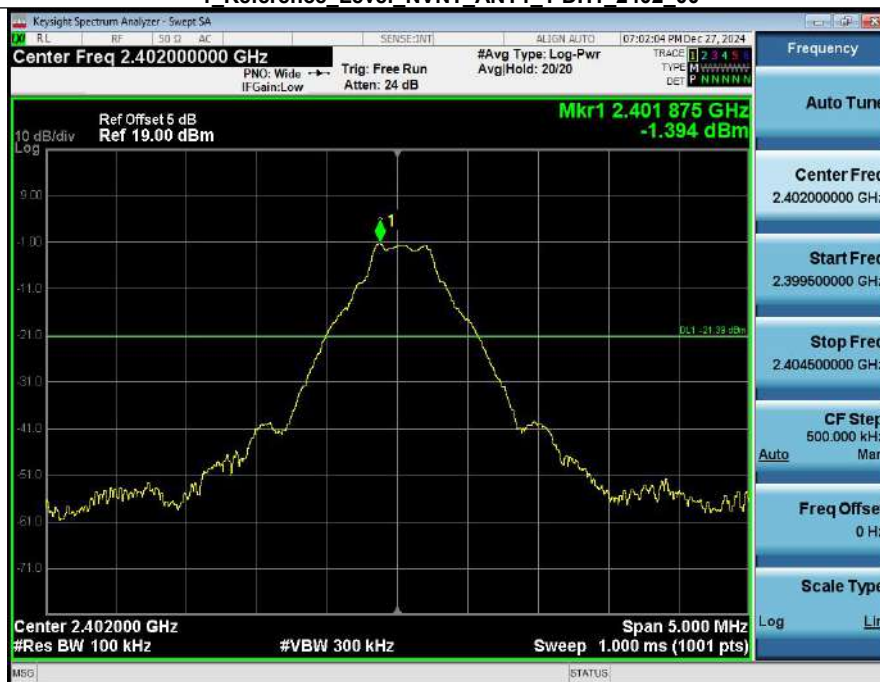
2 Spurious Emissions_NVNT_ANT1_3-DH1_2480_00



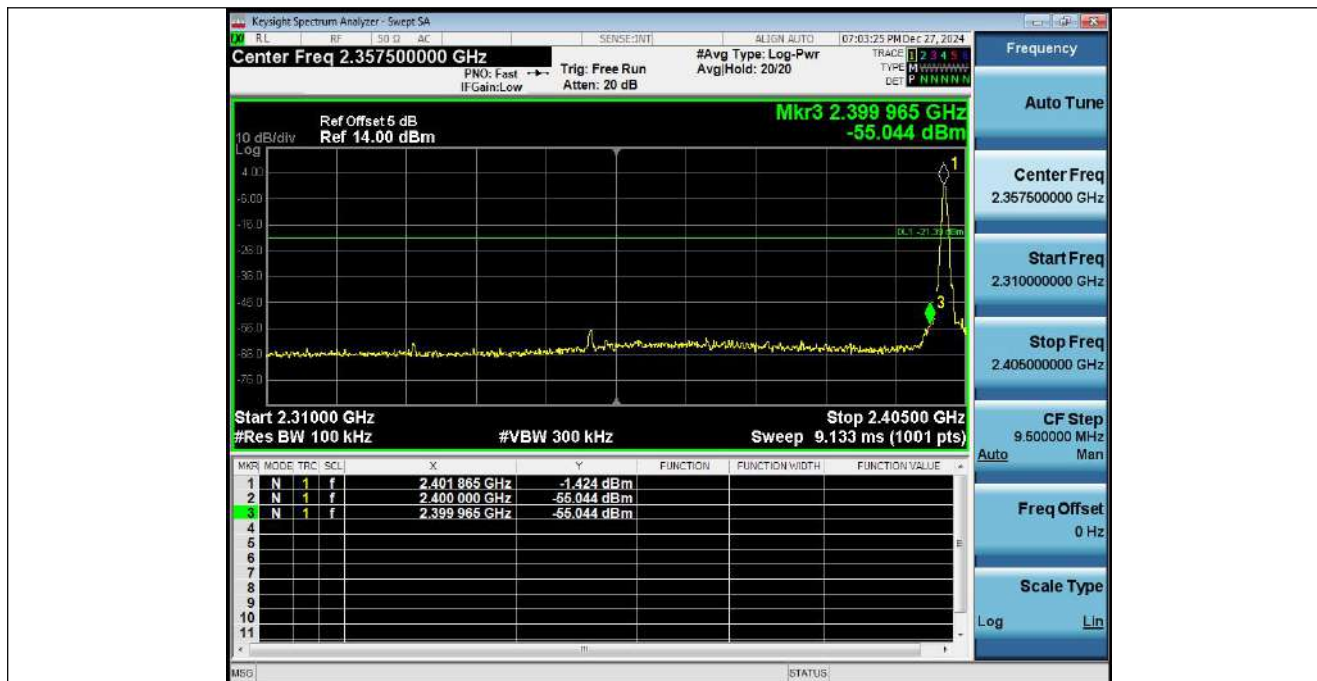
6. Bandedge

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Bandedge MAX.Value	Limit	Result
NVNT	ANT1	1-DH1	2402.00	-1.394	-55.044	-21.394	Pass
NVNT	ANT1	1-DH1	Hopping_LCH	-1.116	-56.275	-21.116	Pass
NVNT	ANT1	1-DH1	2480.00	-2.740	-64.892	-22.740	Pass
NVNT	ANT1	1-DH1	Hopping_HCH	-1.472	-55.619	-21.472	Pass
NVNT	ANT1	2-DH1	2402.00	-1.357	-53.233	-21.357	Pass
NVNT	ANT1	2-DH1	Hopping_LCH	-1.444	-59.504	-21.444	Pass
NVNT	ANT1	2-DH1	2480.00	-2.683	-59.209	-22.683	Pass
NVNT	ANT1	2-DH1	Hopping_HCH	-1.848	-55.281	-21.848	Pass
NVNT	ANT1	3-DH1	2402.00	-1.846	-52.171	-21.846	Pass
NVNT	ANT1	3-DH1	Hopping_LCH	-1.467	-51.603	-21.467	Pass
NVNT	ANT1	3-DH1	2480.00	-2.827	-64.535	-22.827	Pass
NVNT	ANT1	3-DH1	Hopping_HCH	-1.826	-55.296	-21.826	Pass

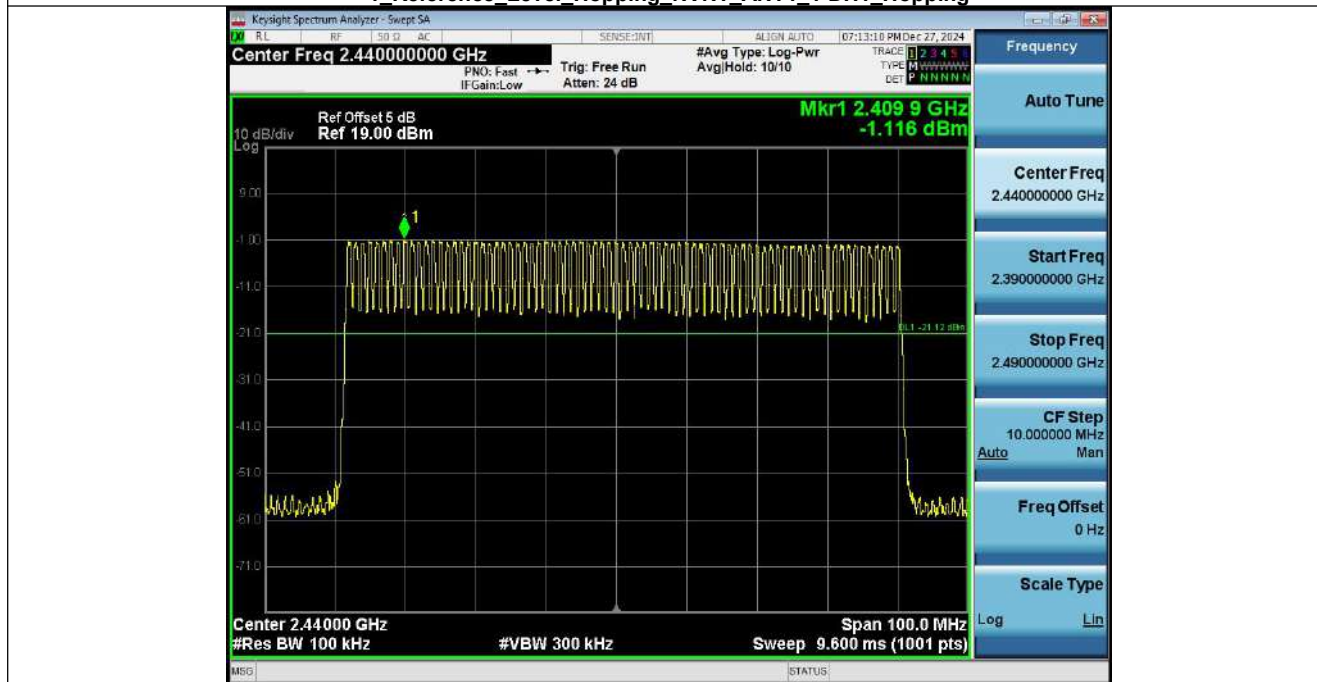
1 Reference Level NVNT ANT1 1-DH1 2402_00



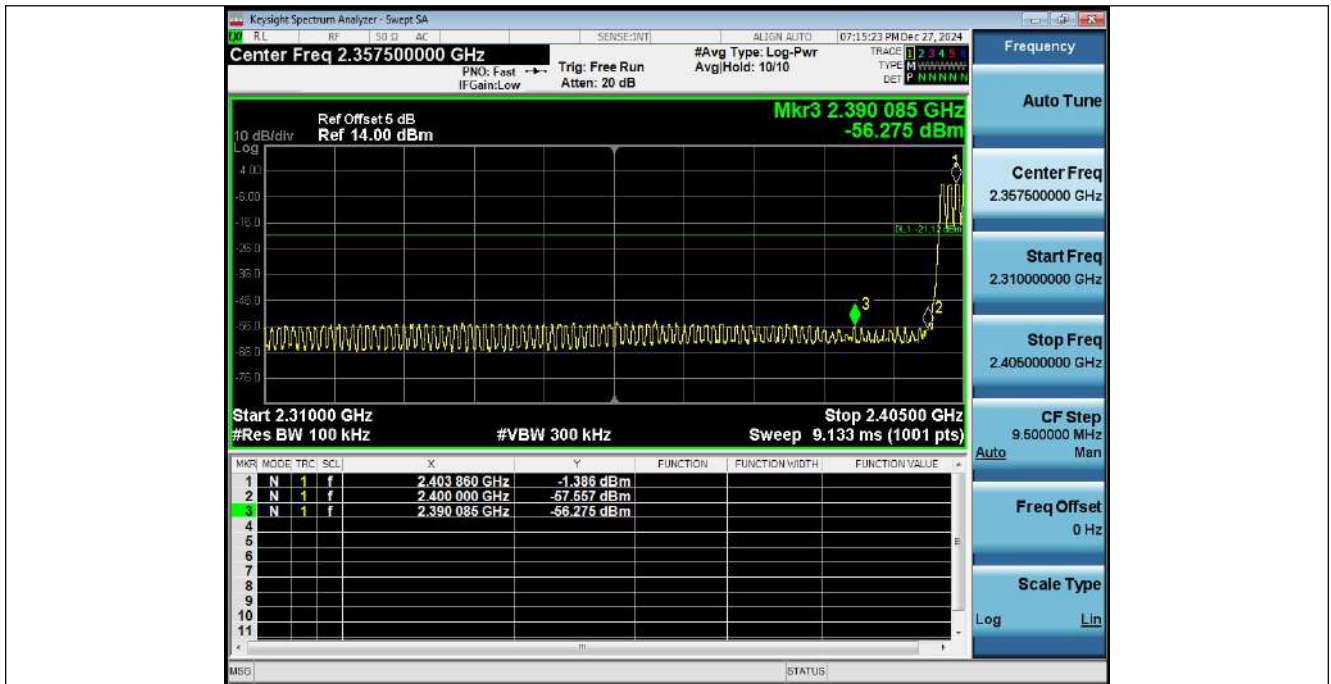
2 Bandedge NVNT ANT1 1-DH1 2402_00



1 Reference_Level_Hopping_NVNT_ANT1_1-DH1_Hopping



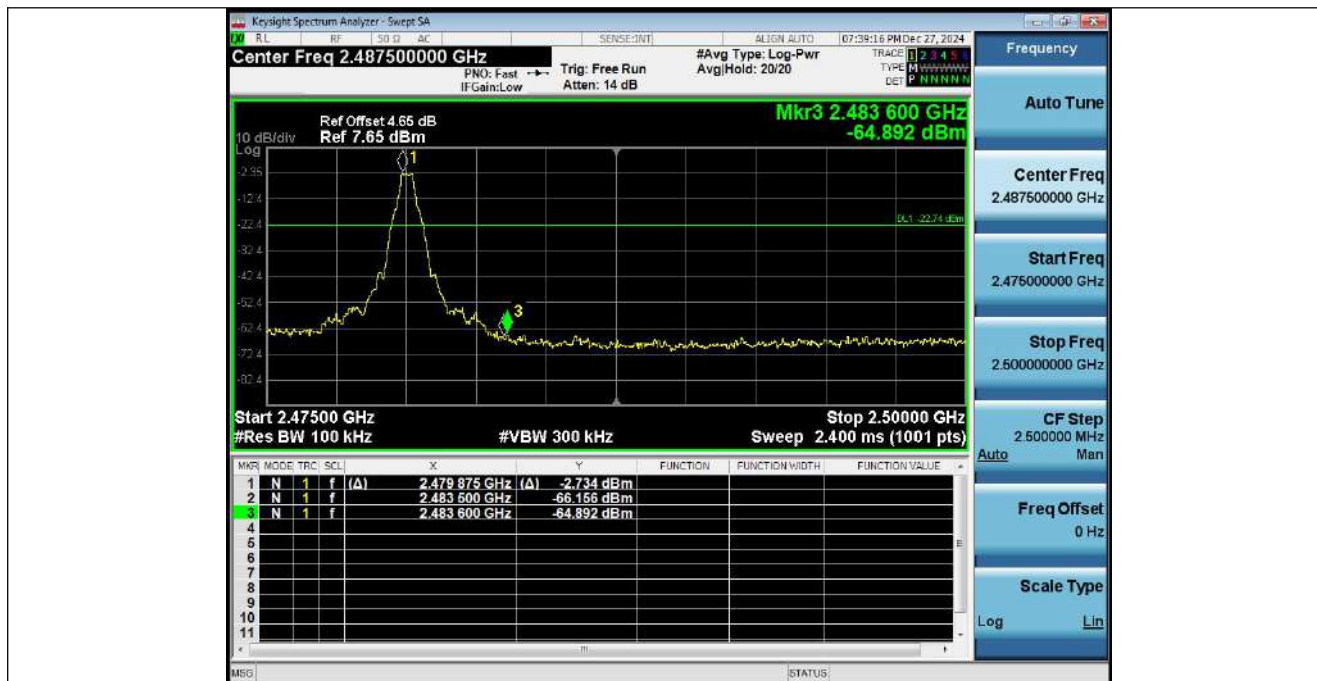
2 Band_Edge_(Hopping)_NVNT_ANT1_1-DH1_Hopping



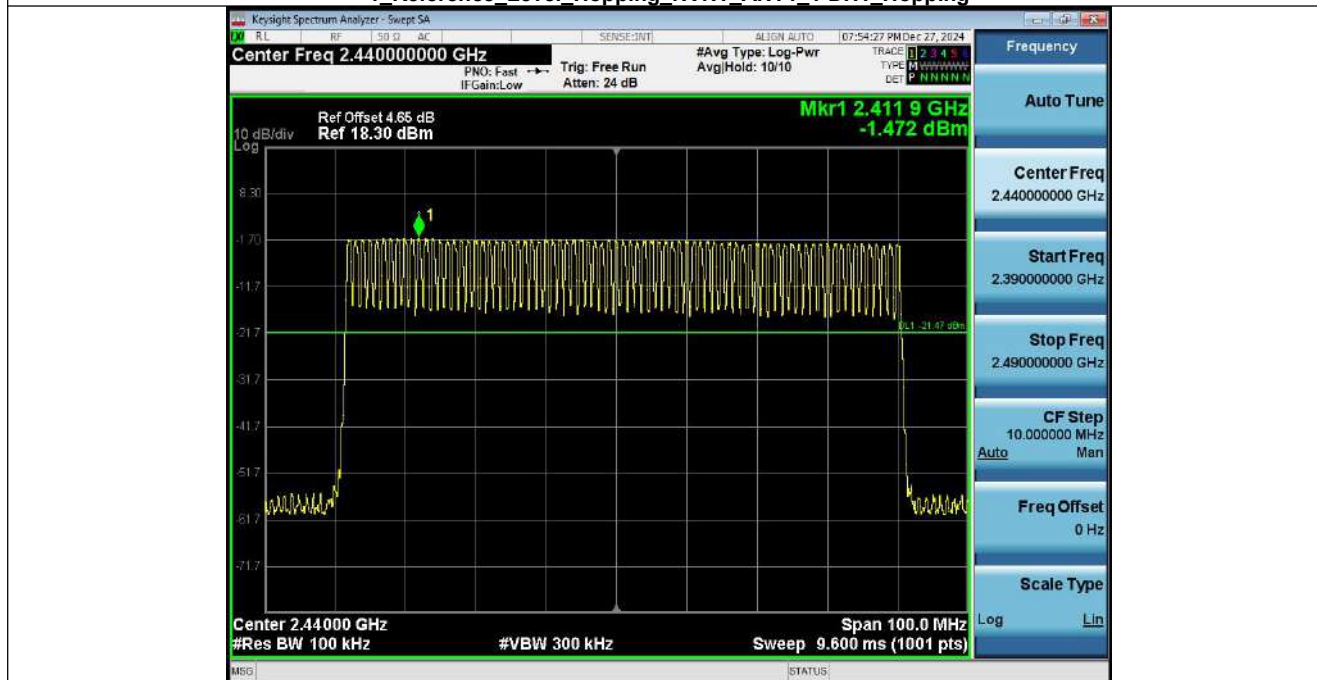
1 Reference Level NVNT ANT1 1-DH1 2480 00



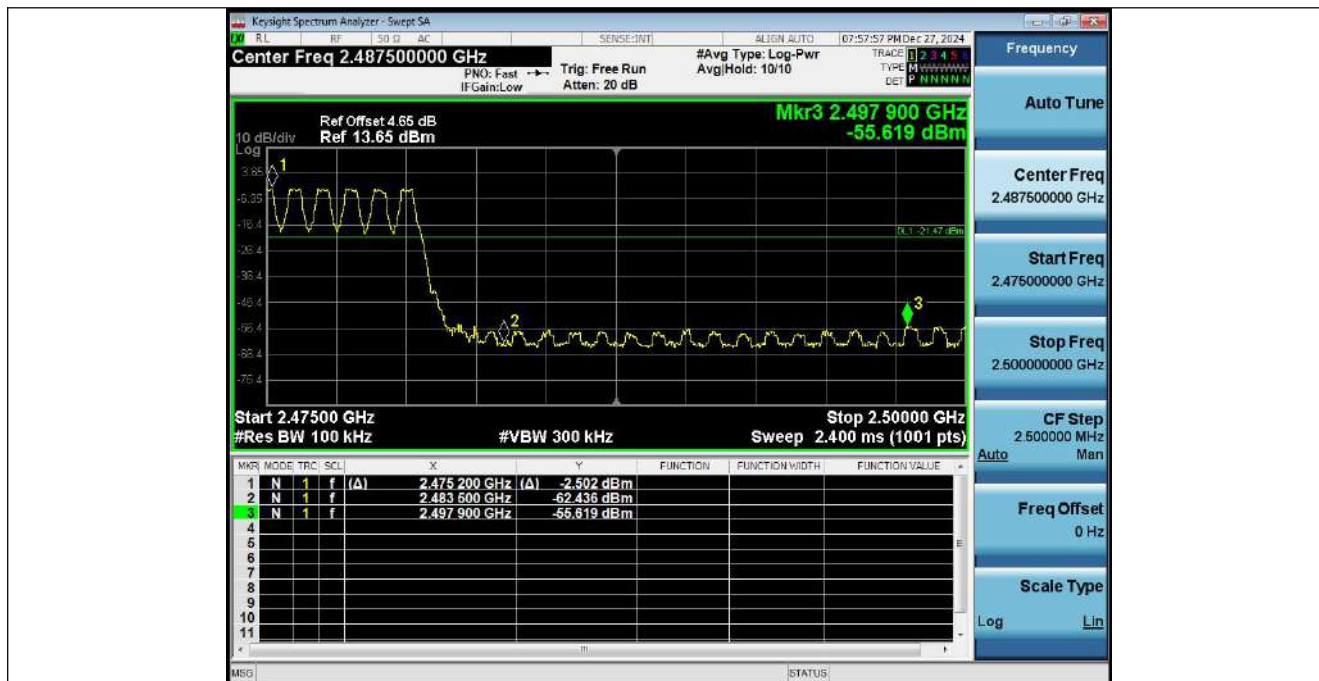
2 Bandedge NVNT ANT1 1-DH1 2480 00



1 Reference_Level_Hopping_NVNT_ANT1_1-DH1_Hopping



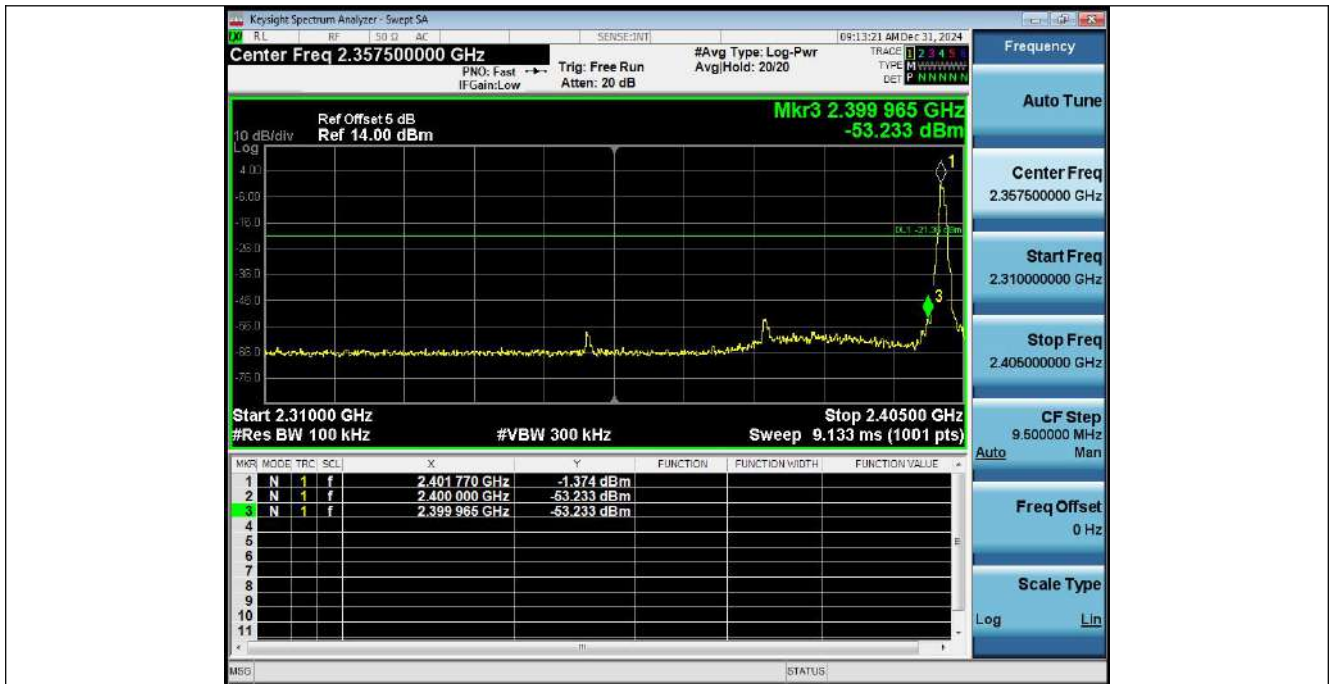
2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH1_Hopping



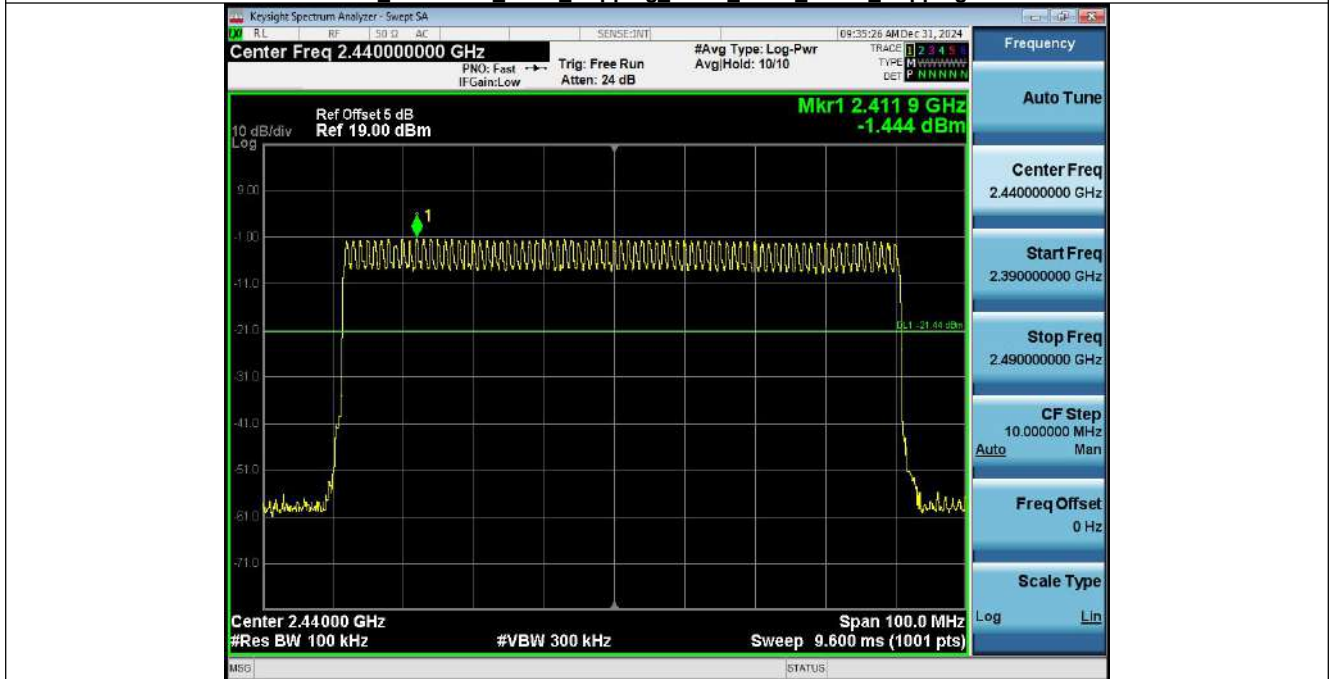
1 Reference Level NVNT ANT1 2-DH1 2402_00



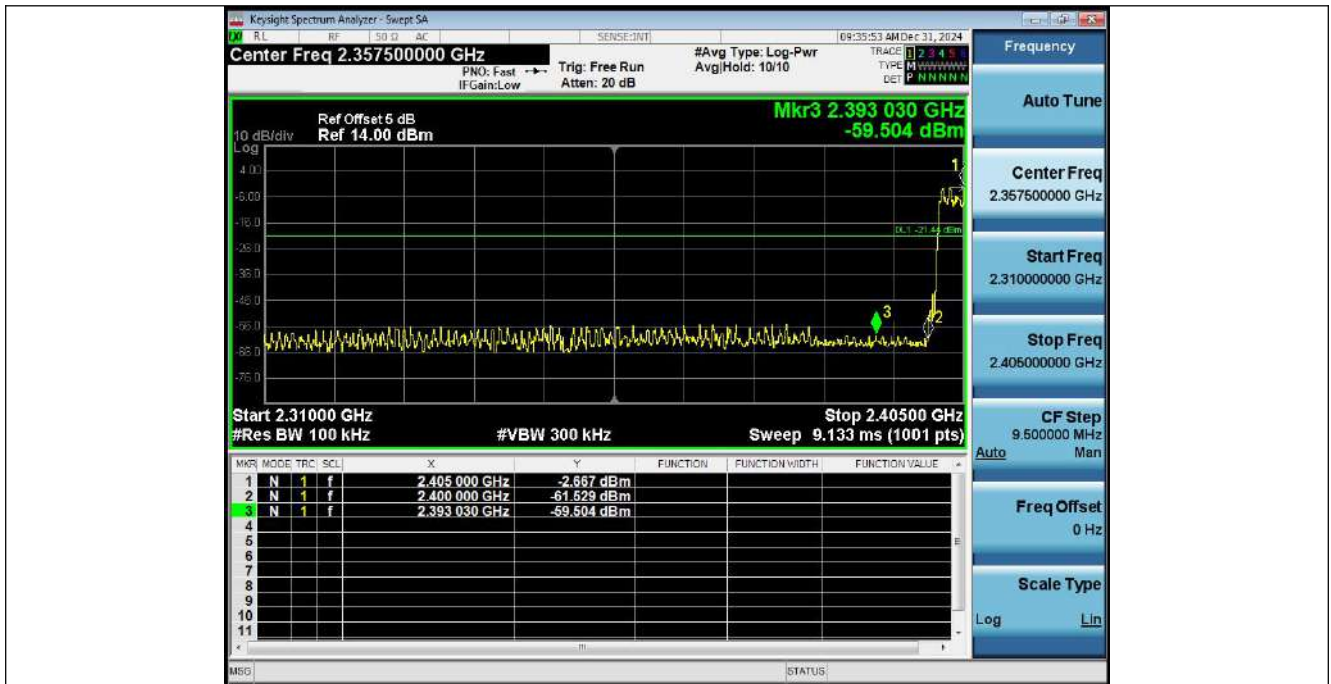
2 Bandedge NVNT ANT1 2-DH1 2402_00



1 Reference_Level_Hopping_NVNT_ANT1_2-DH1_Hopping



2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH1_Hopping



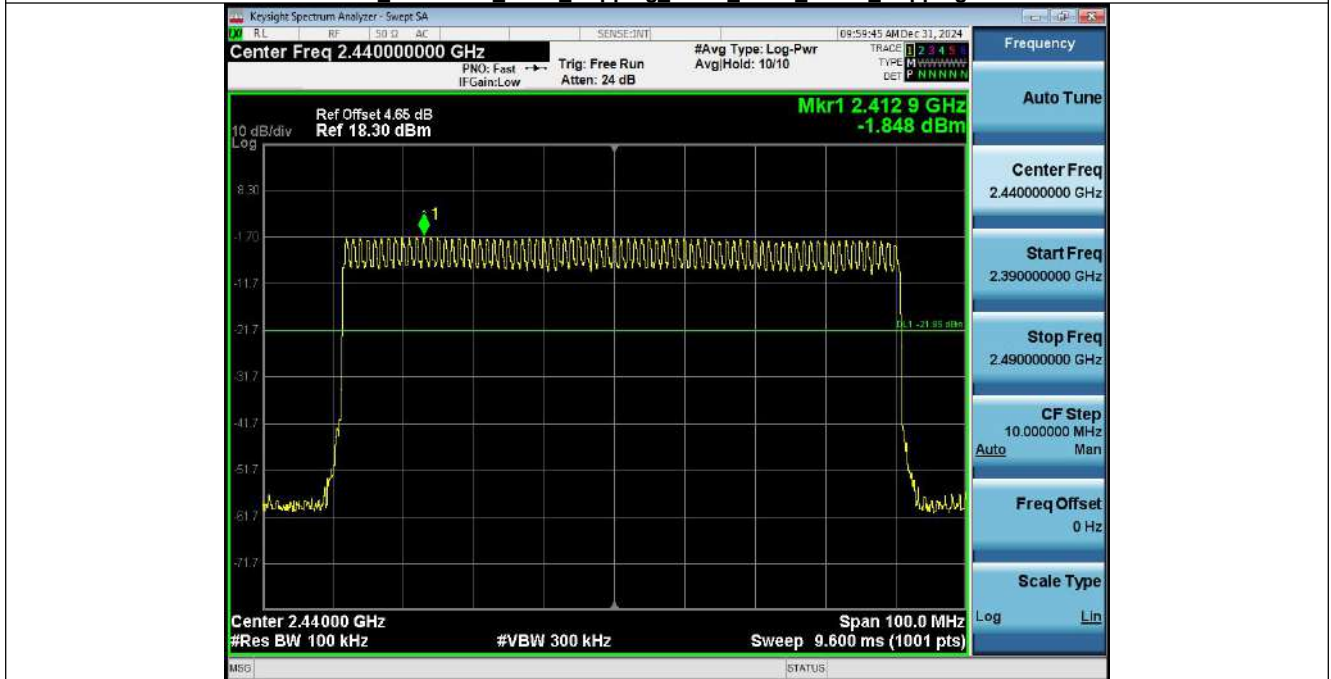
1 Reference Level NVNT ANT1 2-DH1 2480 00



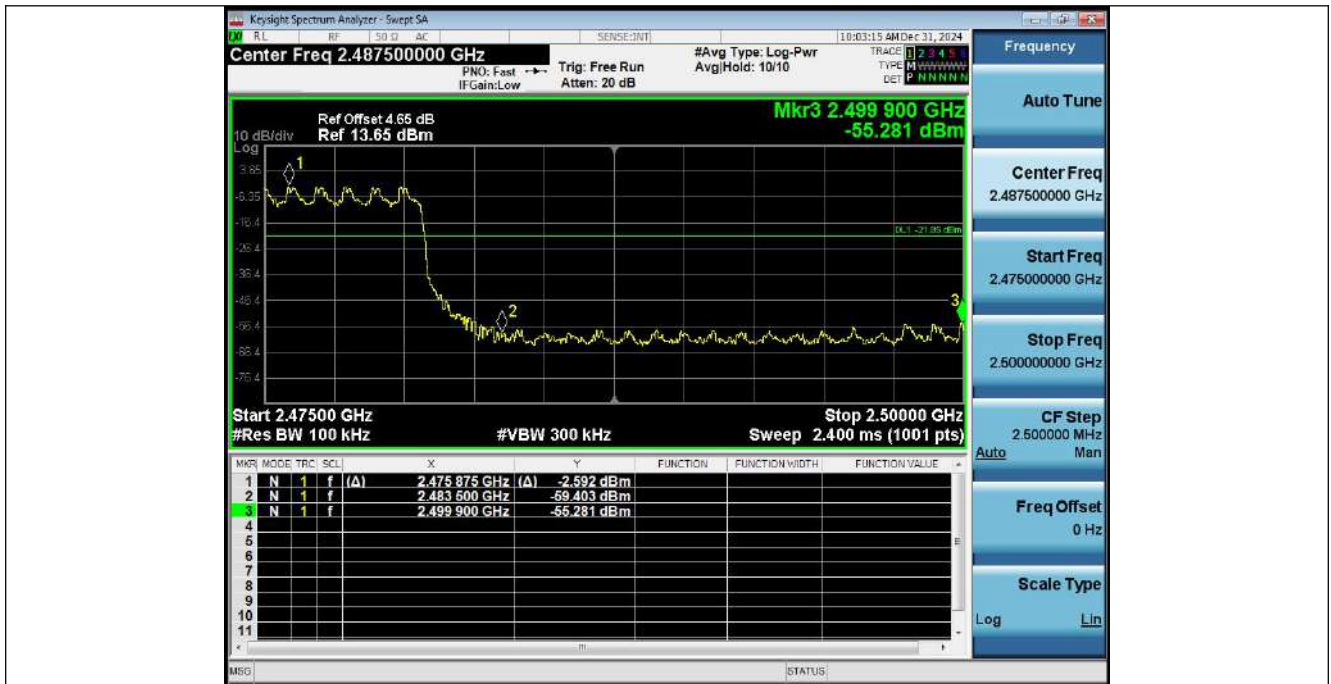
2 Bandedge NVNT ANT1 2-DH1 2480 00



1 Reference_Level_Hopping_NVNT_ANT1_2-DH1_Hopping



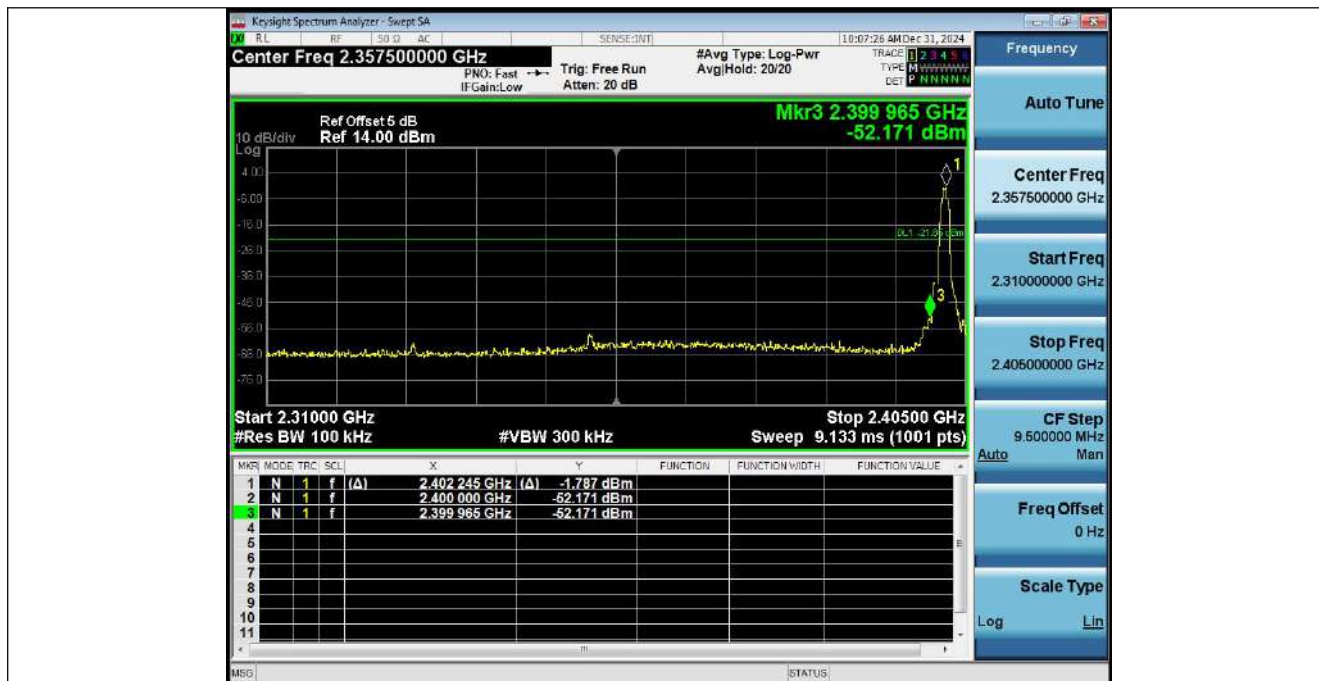
2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH1_Hopping



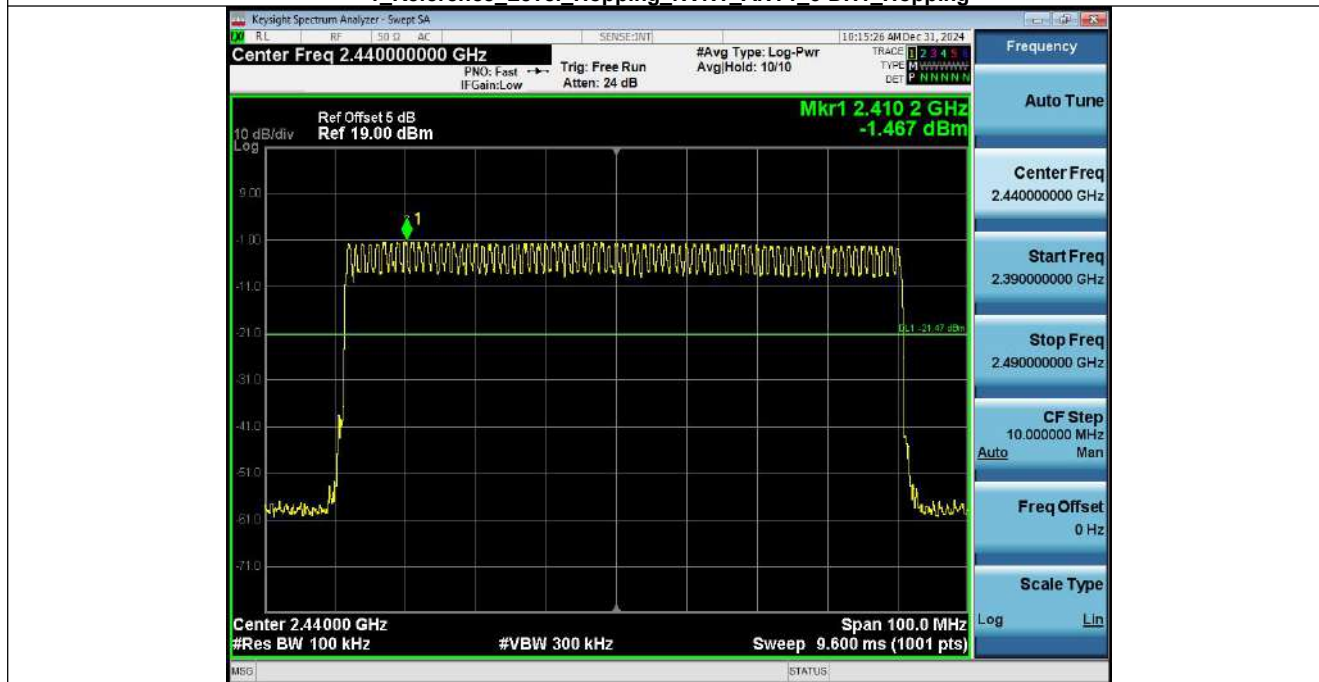
1 Reference Level NVNT ANT1 3-DH1 2402 00



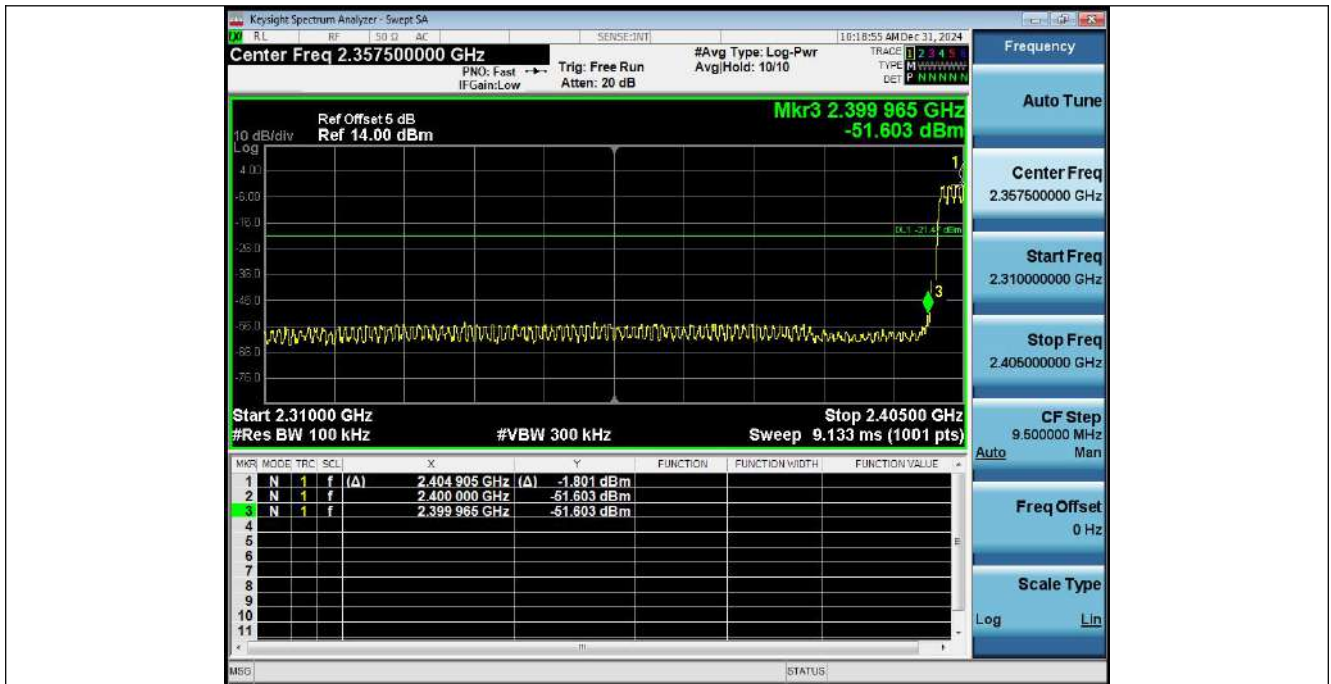
2 Bandedge NVNT ANT1 3-DH1 2402 00



1 Reference_Level_Hopping_NVNT_ANT1_3-DH1_Hopping



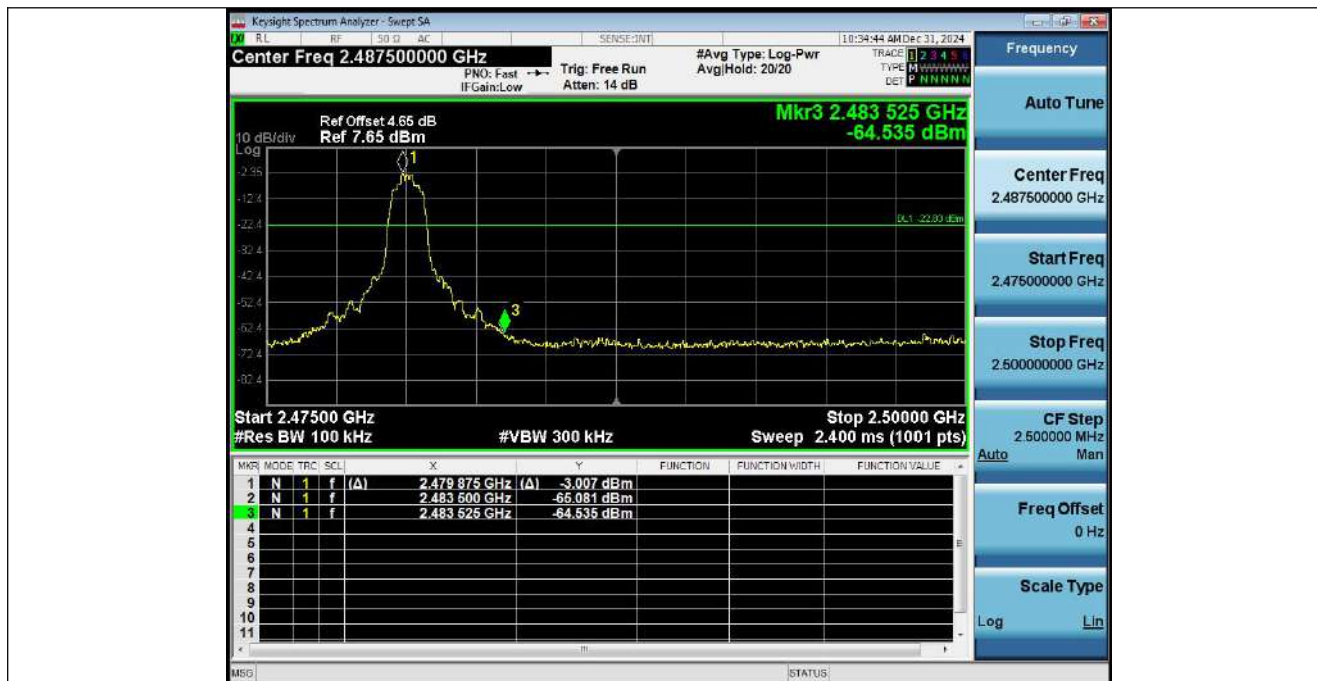
2 Band_Edge_(Hopping)_NVNT_ANT1_3-DH1_Hopping



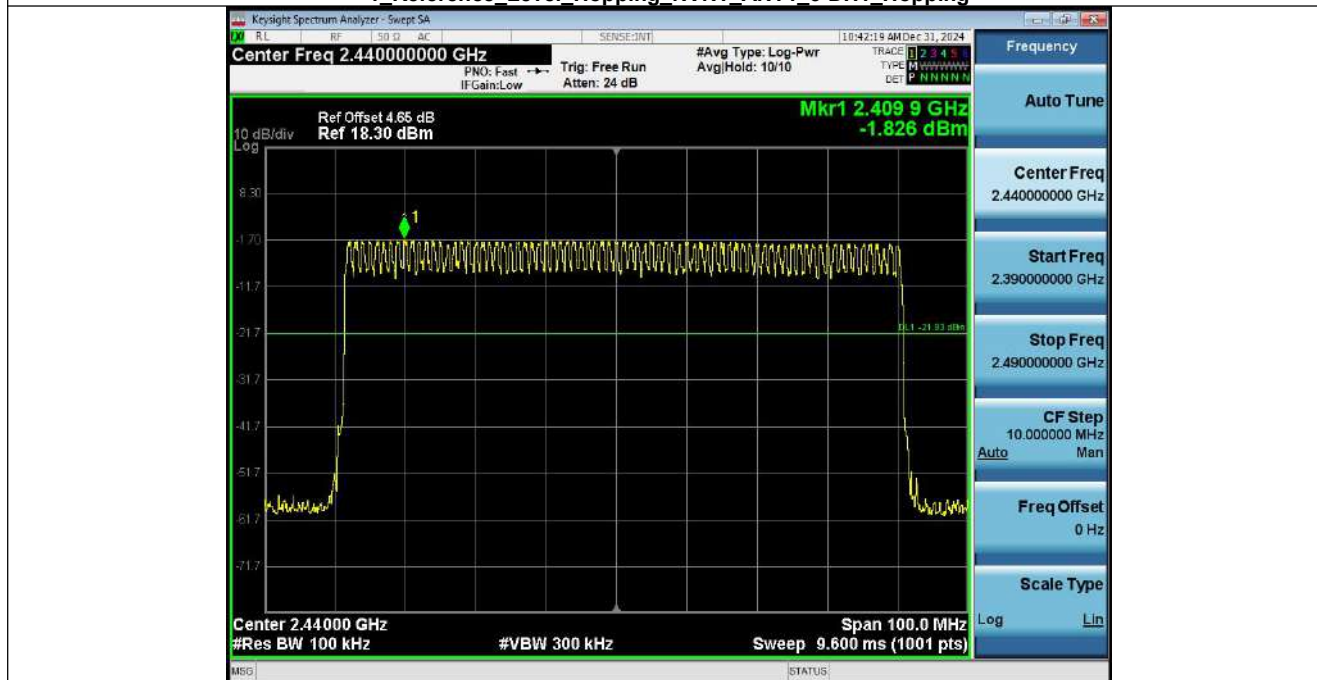
1 Reference Level NVNT ANT1 3-DH1 2480 00



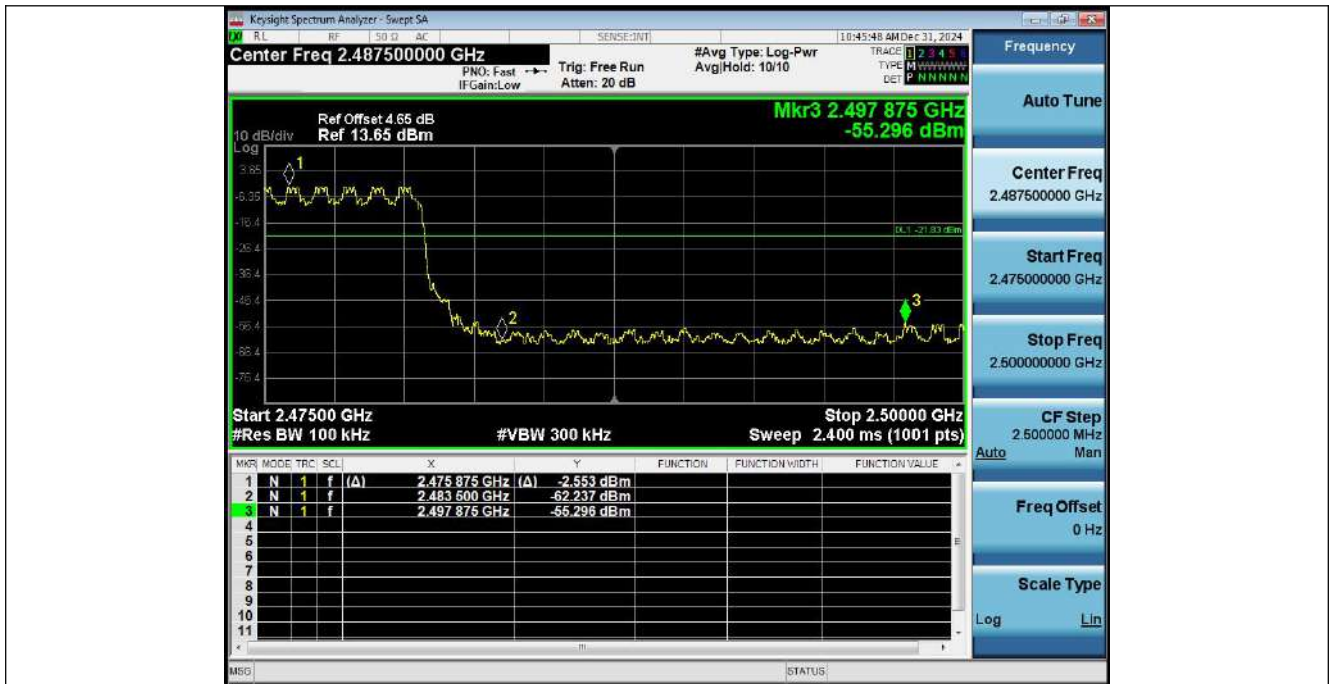
2 Bandedge NVNT ANT1 3-DH1 2480 00



1 Reference_Level_Hopping_NVNT_ANT1_3-DH1_Hopping



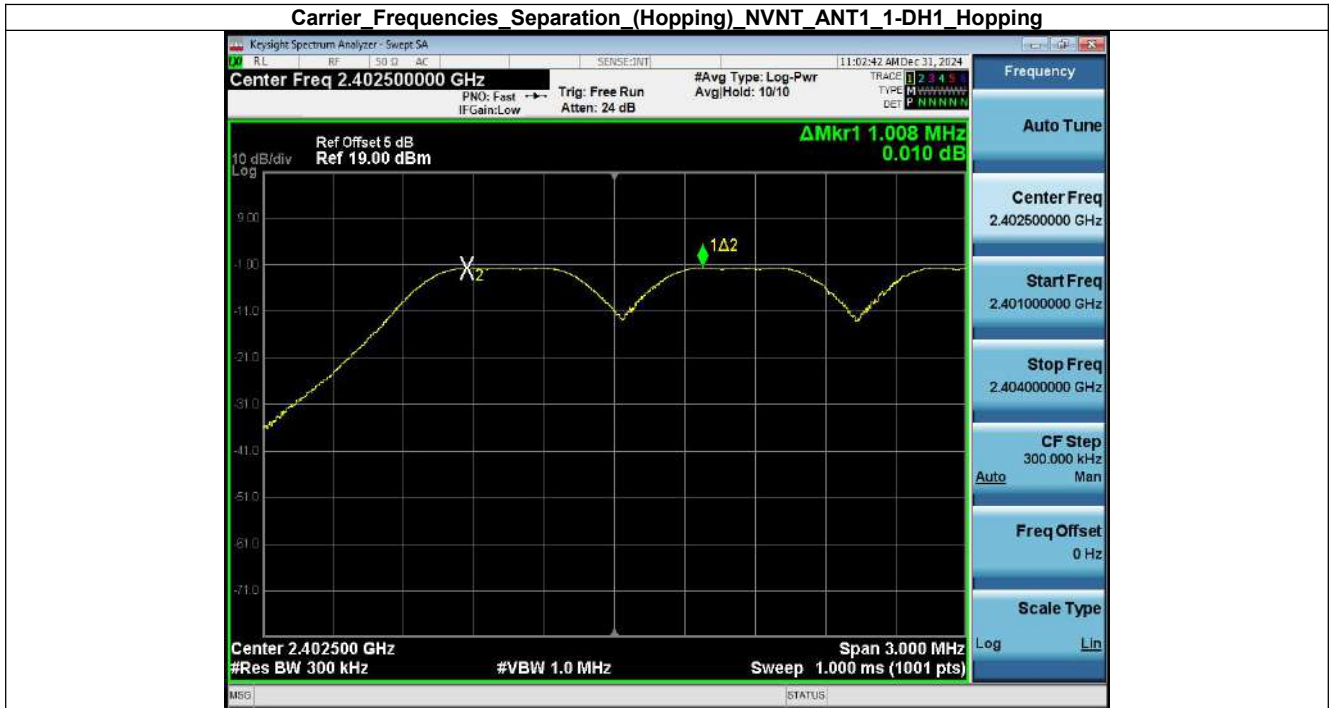
2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH1_Hopping



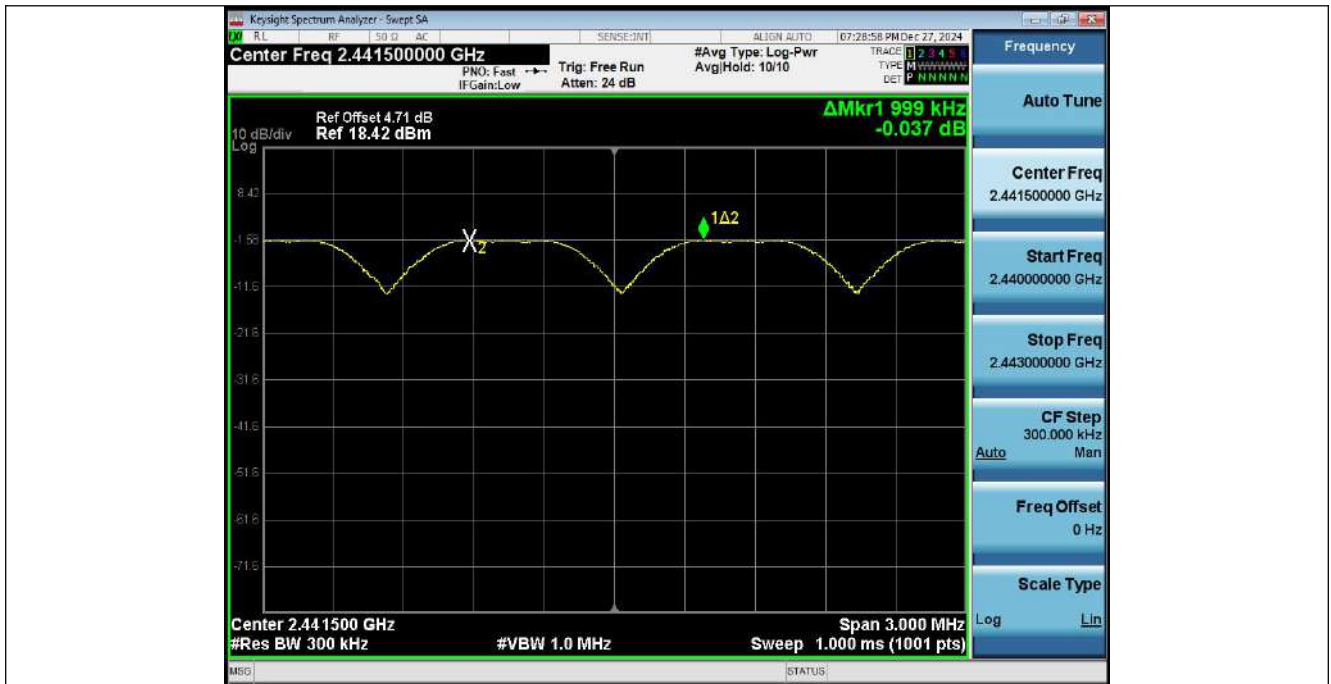
7. Carrier Frequencies Separation (Hopping)

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	2401.870	2402.878	1.01	0.879	Pass
NVNT	ANT1	1-DH1	2441.00	2440.882	2441.881	1.00	0.921	Pass
NVNT	ANT1	1-DH1	2480.00	2478.882	2479.872	0.99	0.925	Pass
NVNT	ANT1	2-DH1	2402.00	2401.873	2402.884	1.01	0.847	Pass
NVNT	ANT1	2-DH1	2441.00	2440.867	2441.875	1.01	0.849	Pass
NVNT	ANT1	2-DH1	2480.00	2478.876	2479.878	1.00	0.847	Pass
NVNT	ANT1	3-DH1	2402.00	2401.864	2403.196	1.33	0.817	Pass
NVNT	ANT1	3-DH1	2441.00	2440.867	2441.875	1.01	0.818	Pass
NVNT	ANT1	3-DH1	2480.00	2478.873	2479.875	1.00	0.834	Pass

Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH1_Hopping



Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH1_Hopping



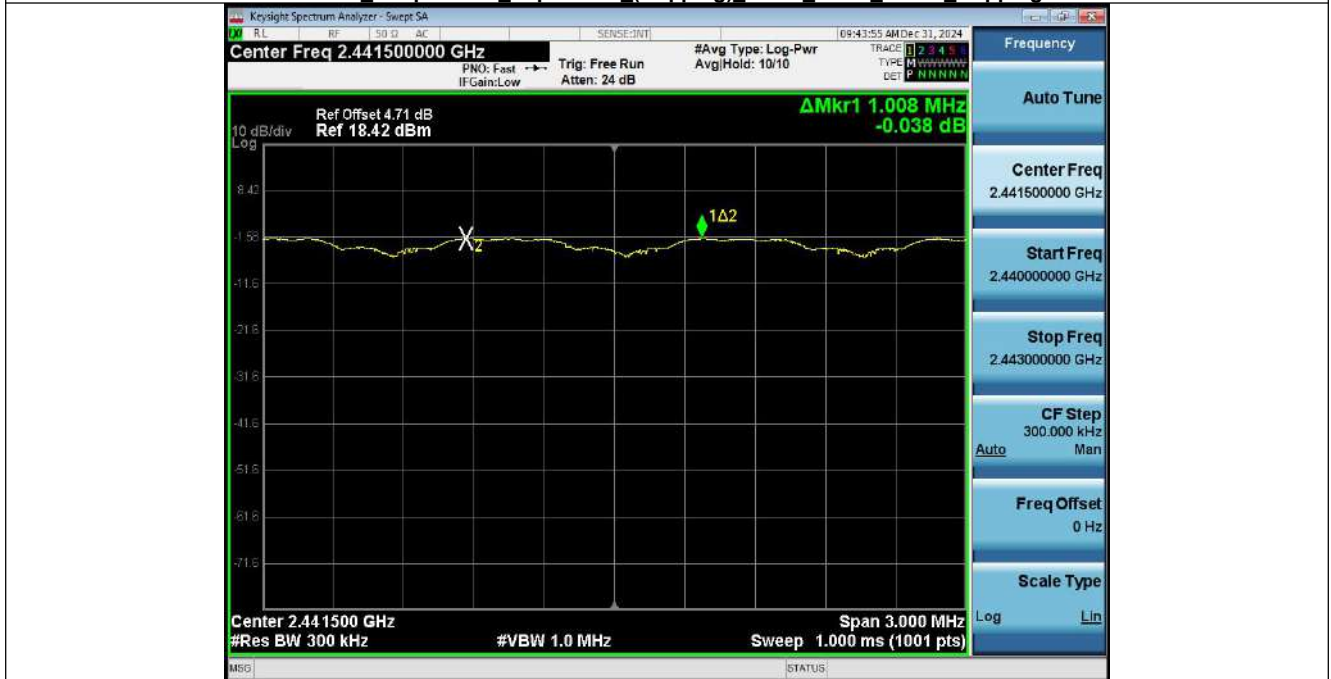
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH1_Hopping



Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH1_Hopping



Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH1_Hopping



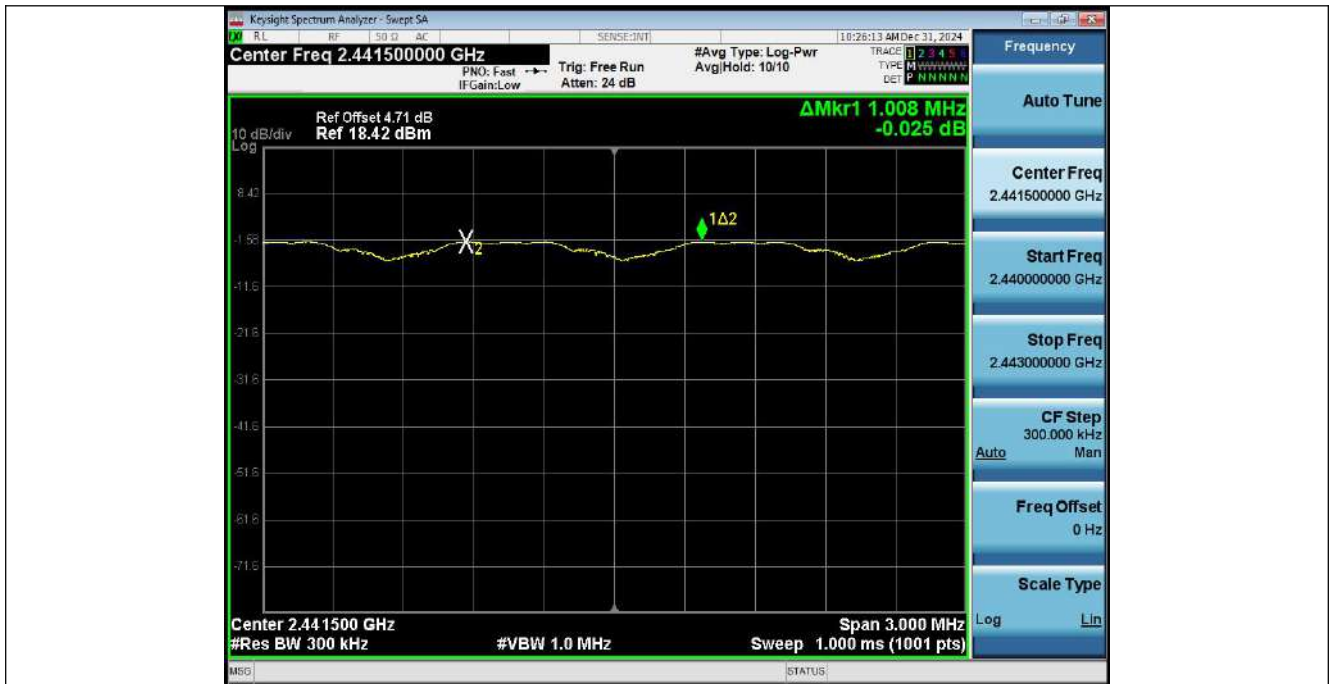
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH1_Hopping



Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH1_Hopping



Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH1_Hopping



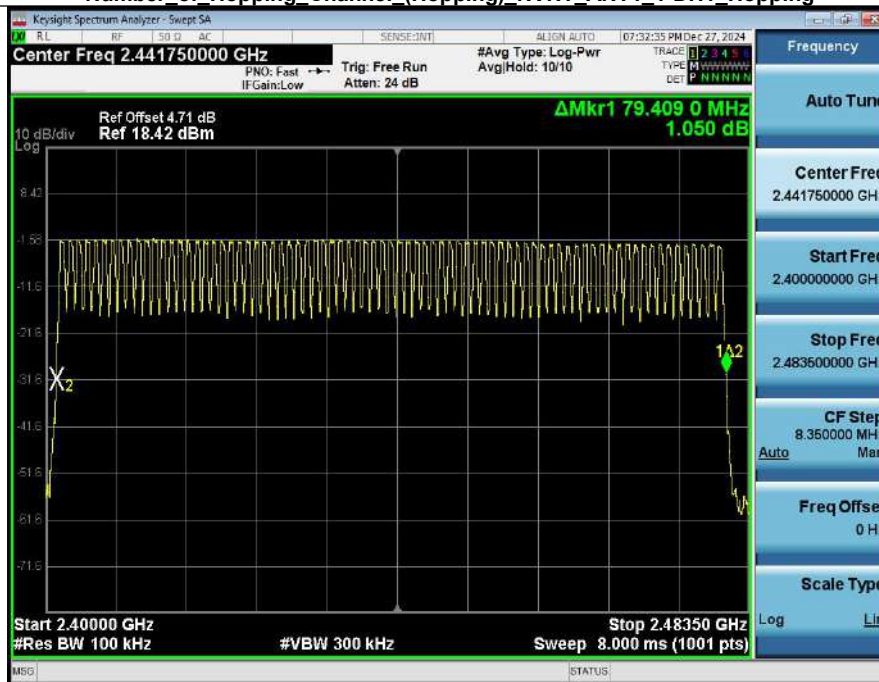
Carrier Frequencies Separation (Hopping) NVNT ANT1 3-DH1 Hopping



8. 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

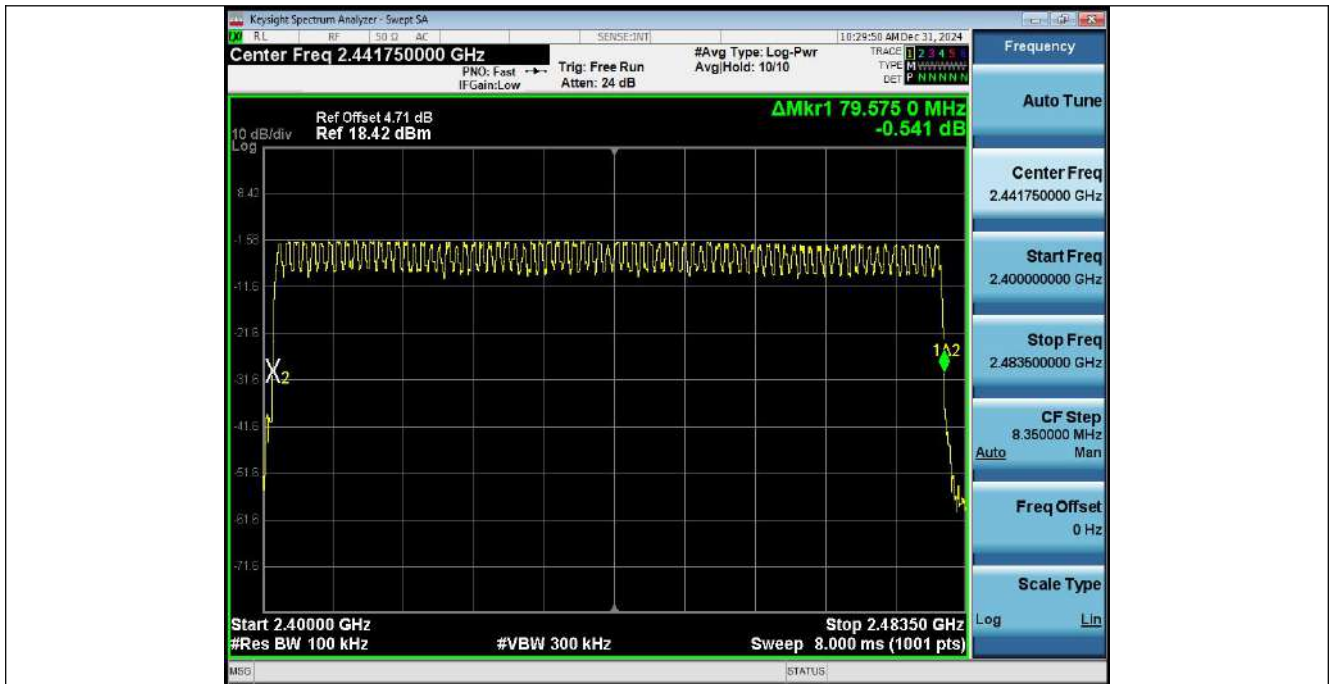
Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_1-DH1_Hopping



Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_2-DH1_Hopping



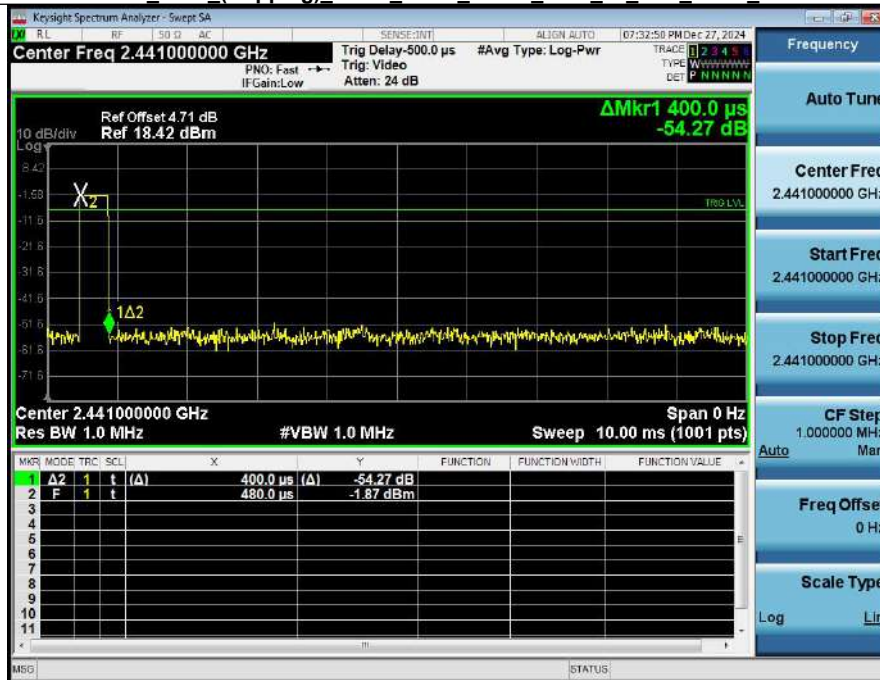
Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_3-DH1_Hopping



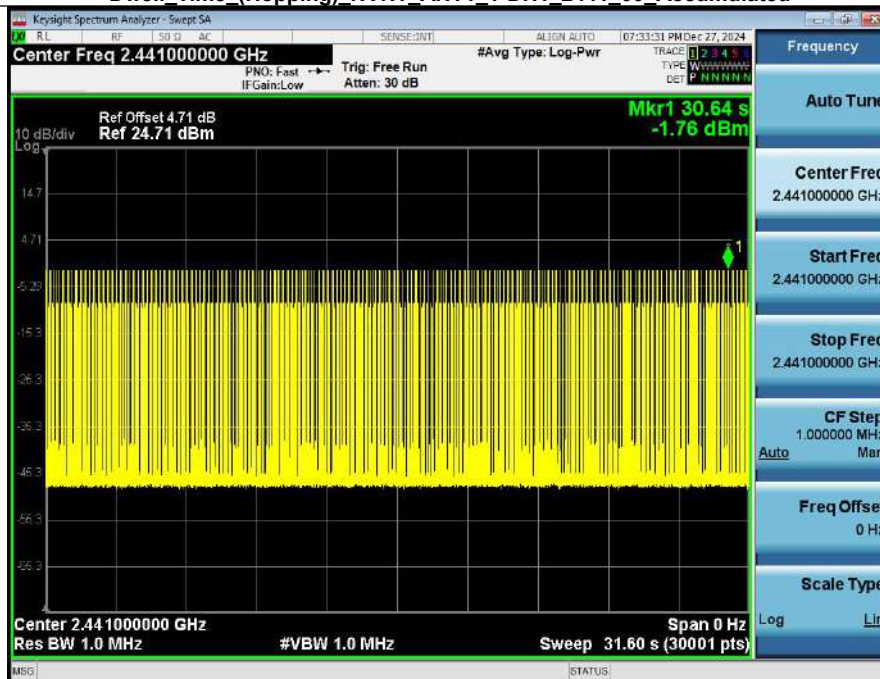
9. Dwell Time (Hopping)

Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH1	0.400	318.00	127.200	0.40	Pass
NVNT	ANT1	2-DH1	0.400	320.00	128.000	0.40	Pass
NVNT	ANT1	3-DH1	0.400	320.00	128.000	0.40	Pass
NVNT	ANT1	1-DH5	1.650	165.00	272.250	0.40	Pass
NVNT	ANT1	1-DH5	2.900	100.00	290.000	0.40	Pass
NVNT	ANT1	2-DH3	1.650	153.00	252.450	0.40	Pass
NVNT	ANT1	2-DH5	2.910	128.00	372.480	0.40	Pass
NVNT	ANT1	3-DH3	1.660	152.00	252.320	0.40	Pass
NVNT	ANT1	3-DH5	2.900	108.00	313.200	0.40	Pass

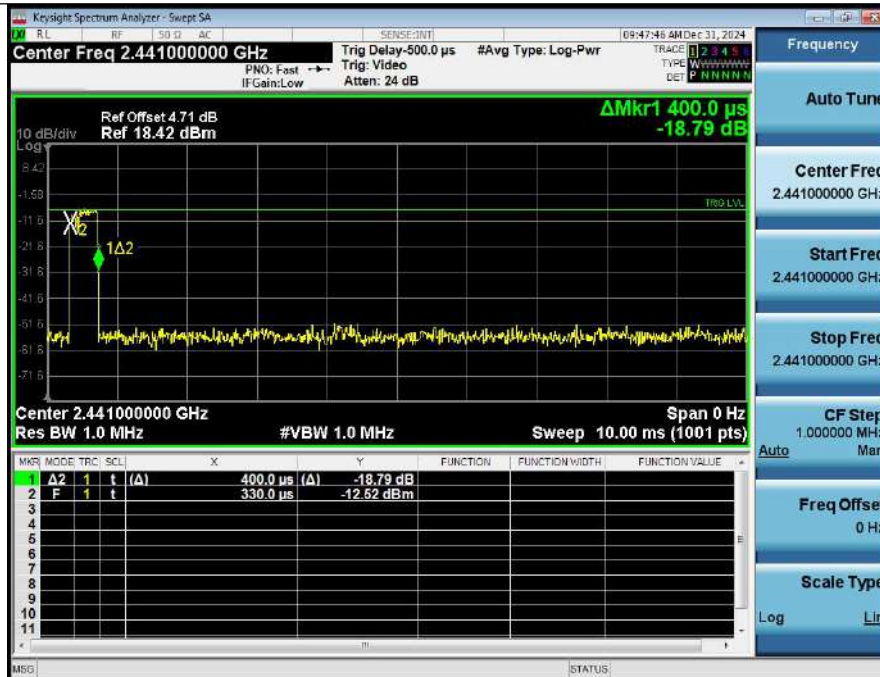
Dwell Time (Hopping) NVNT ANT1 1-DH1 2441 00 One Burst Time



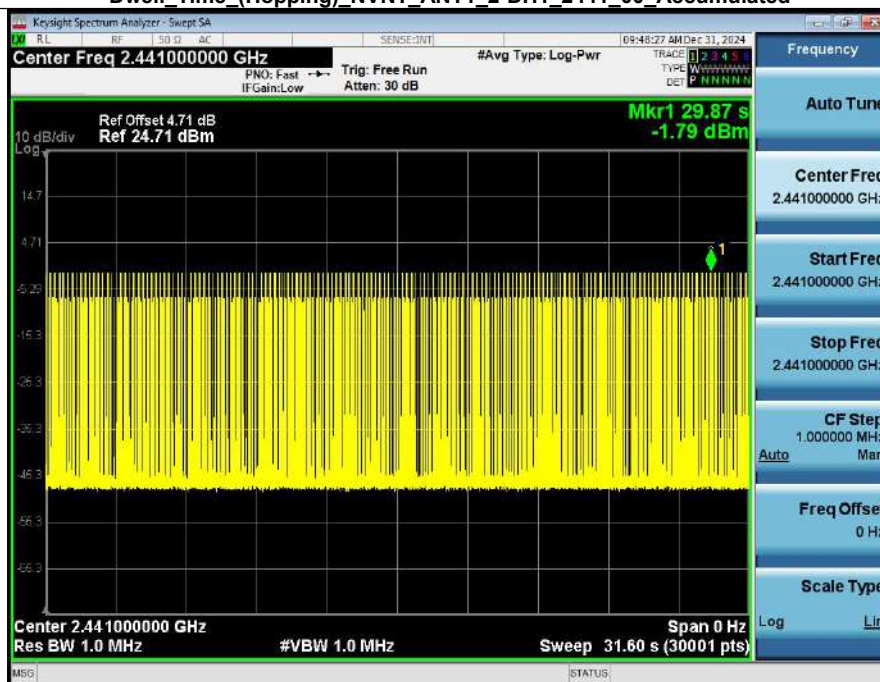
Dwell Time (Hopping) NVNT ANT1 1-DH1 2441 00 Accumulated



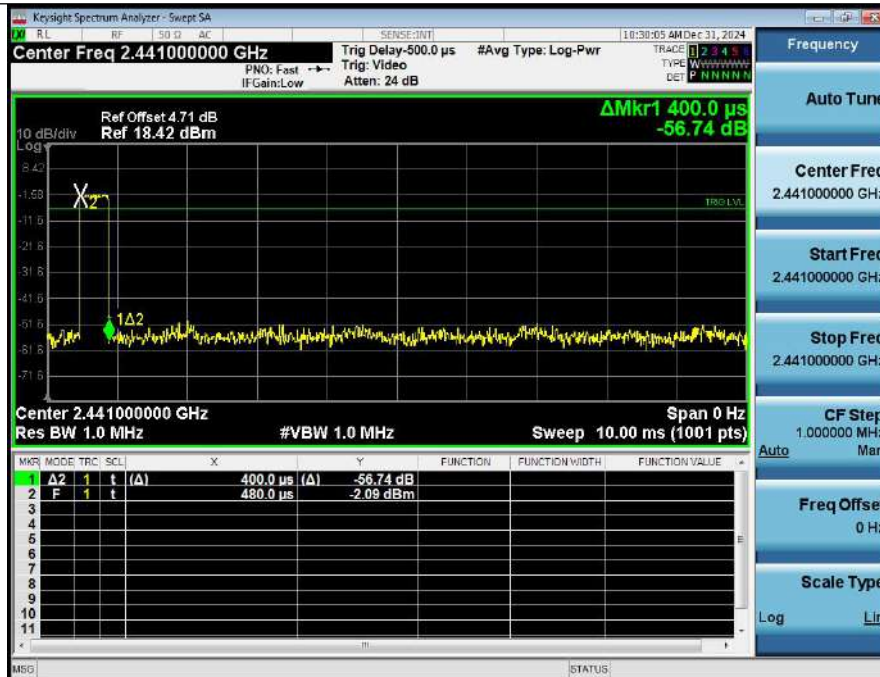
Dwell Time (Hopping) NVNT ANT1 2-DH1 2441 00 One Burst Time



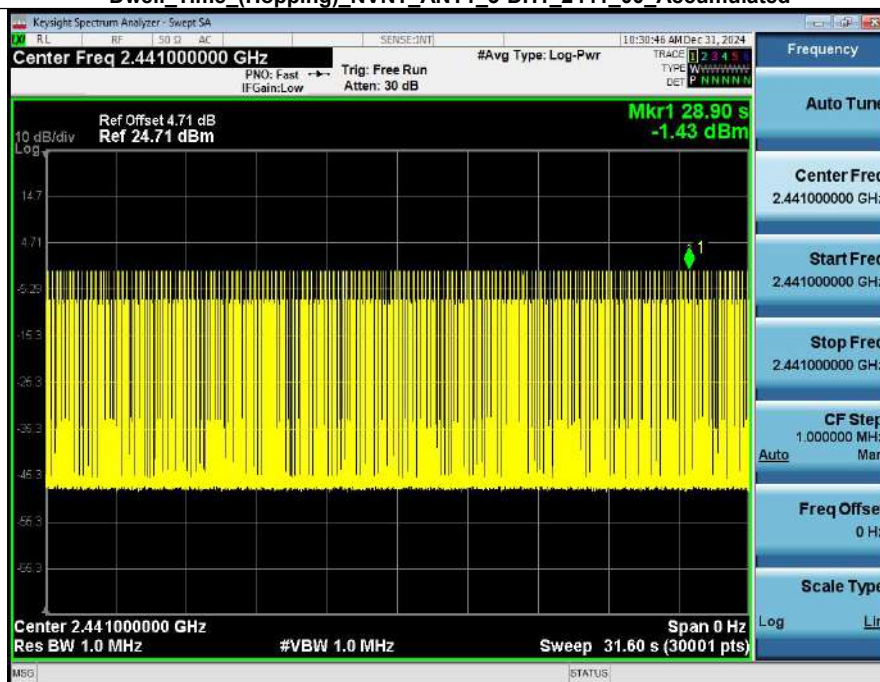
Dwell Time (Hopping) NVNT_ANT1_2-DH1_2441_00_Accumulated



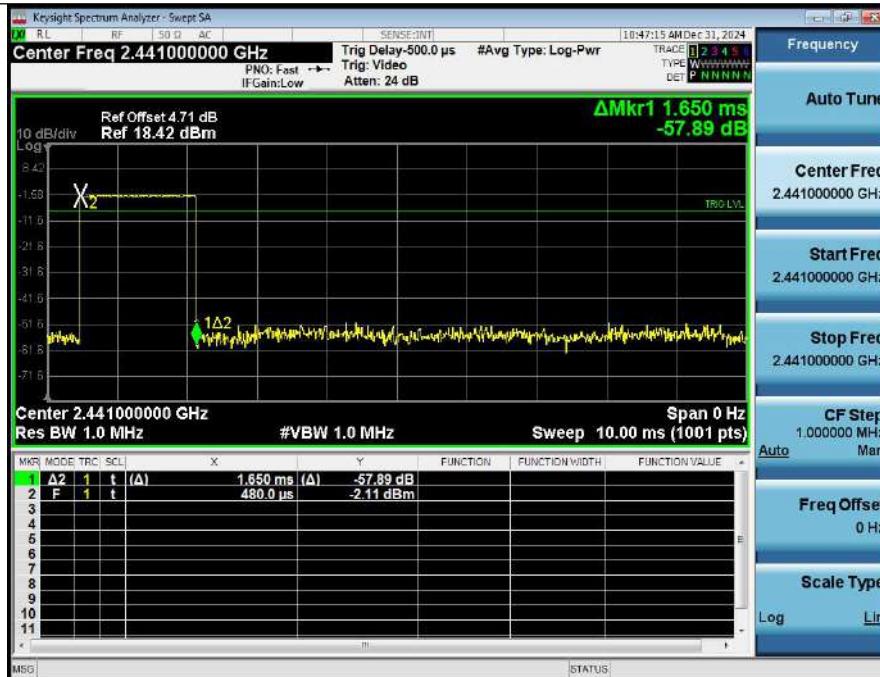
Dwell Time (Hopping) NVNT_ANT1_3-DH1_2441_00_One Burst Time



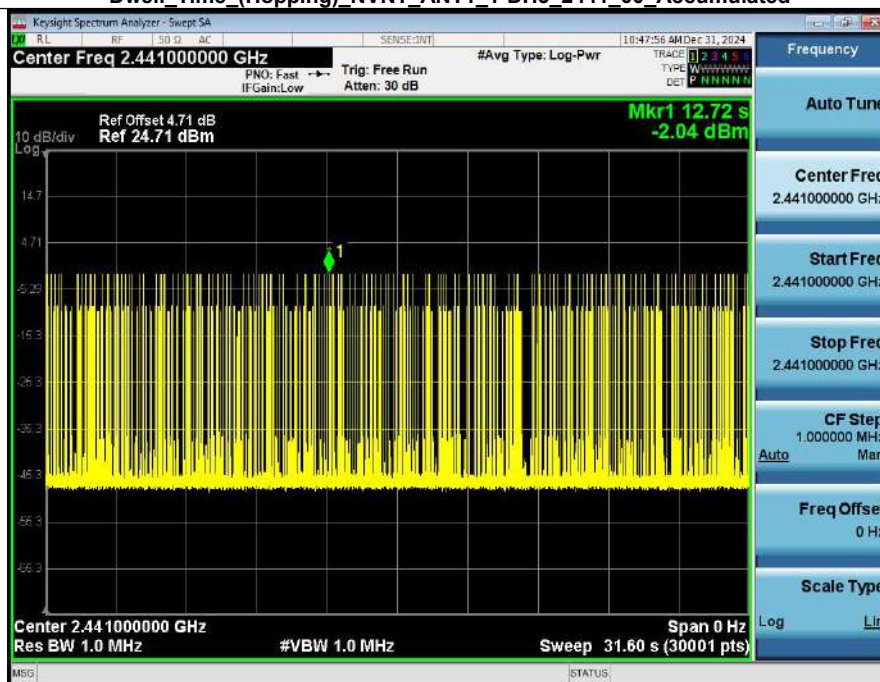
Dwell Time (Hopping) NVNT_ANT1_3-DH1_2441_00_Accumulated



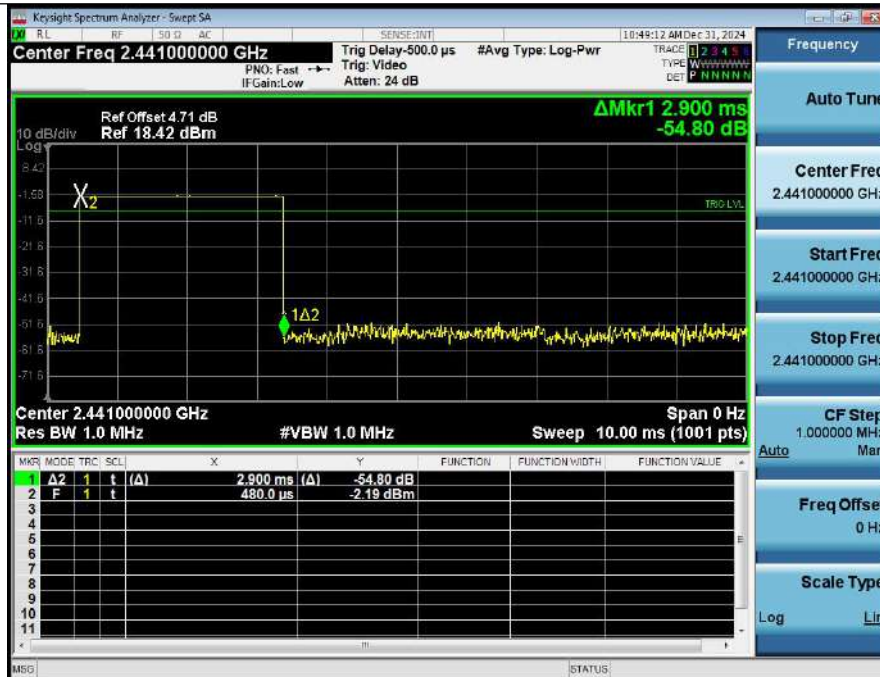
Dwell Time (Hopping) NVNT_ANT1_1-DH3_2441_00_One Burst Time



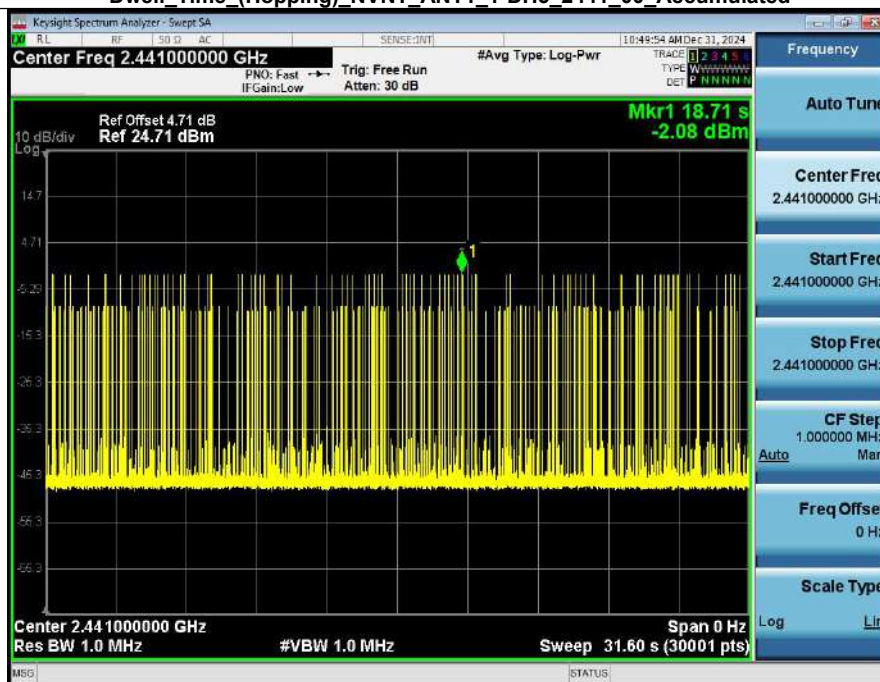
Dwell Time (Hopping) NVNT_ANT1_1-DH3_2441_00_Accumulated



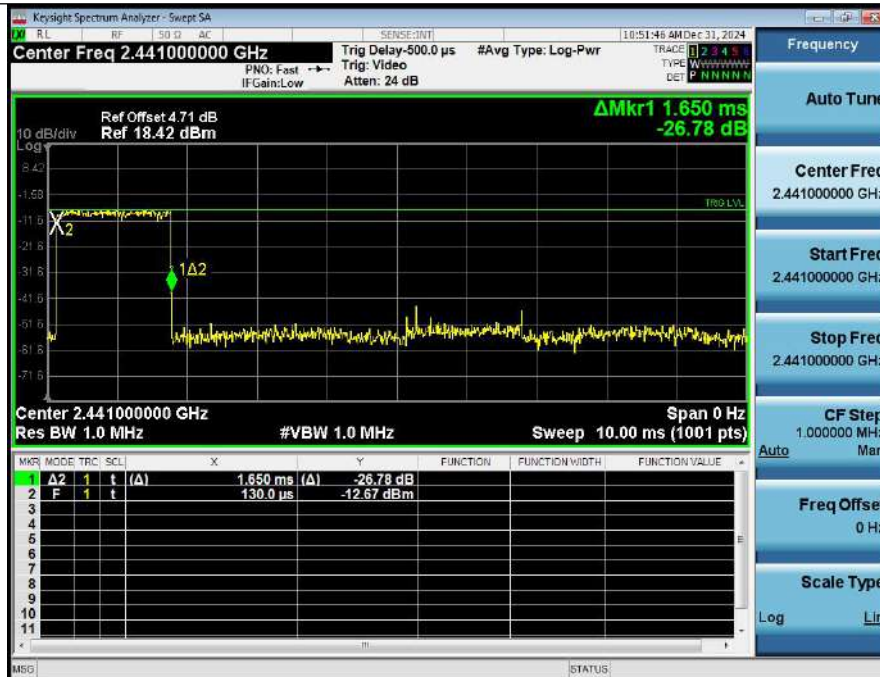
Dwell Time (Hopping) NVNT_ANT1_1-DH5_2441_00_One Burst Time



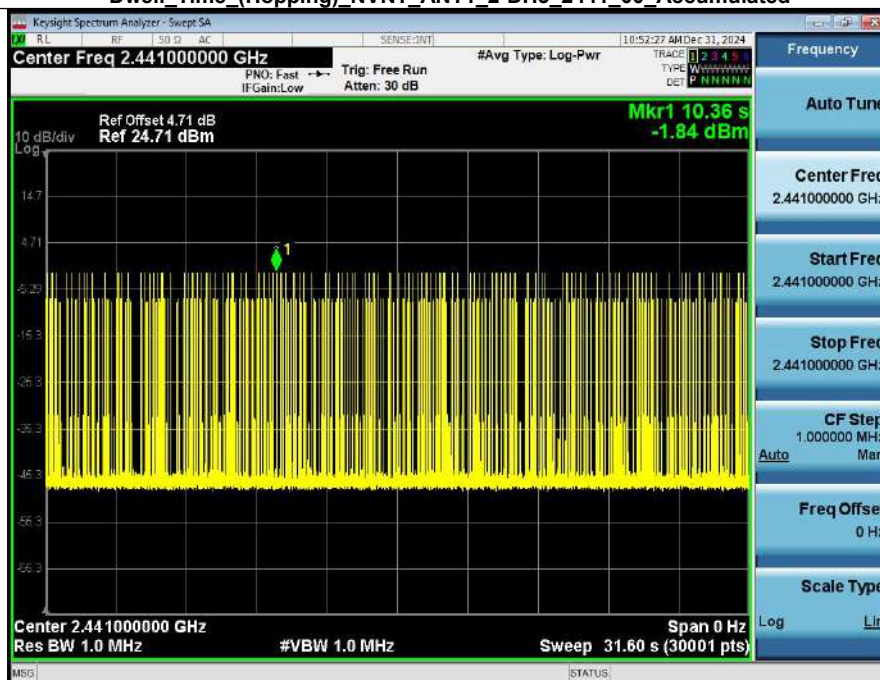
Dwell Time (Hopping) NVNT_ANT1_1-DH5_2441_00_Accumulated



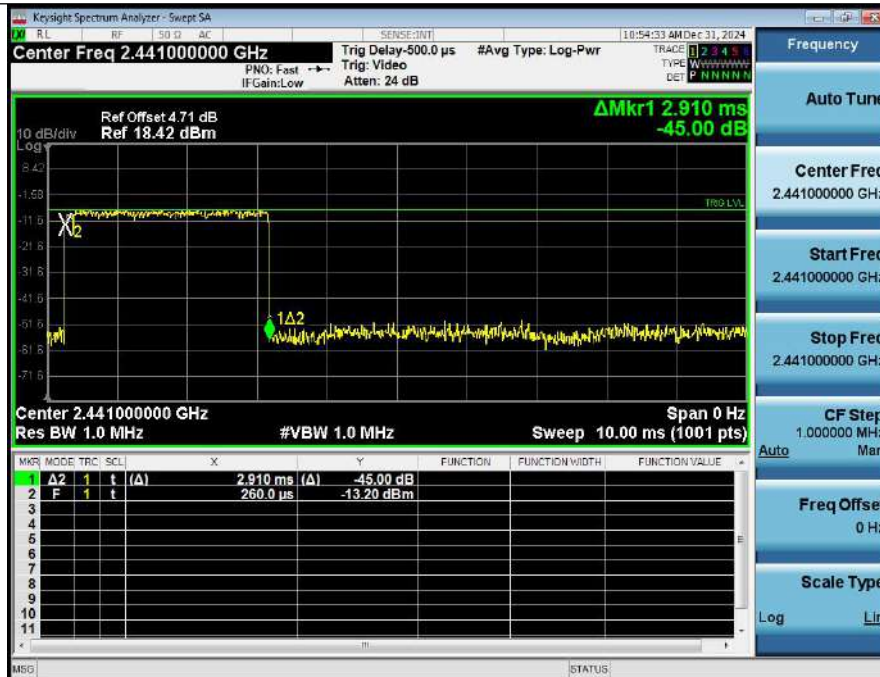
Dwell Time (Hopping) NVNT_ANT1_2-DH3_2441_00_One Burst Time



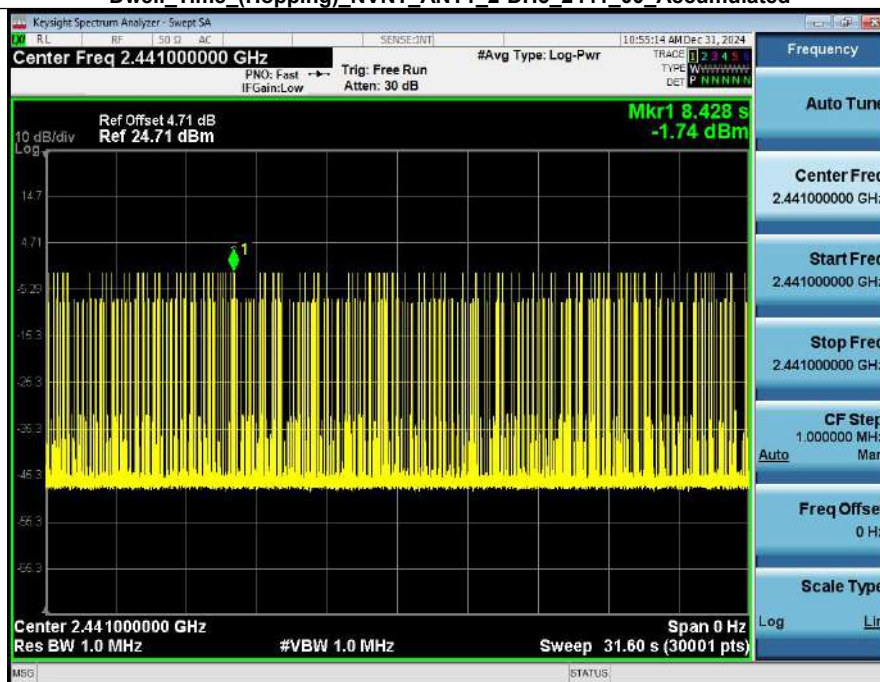
Dwell Time (Hopping) NVNT_ANT1_2-DH3_2441_00_Accumulated



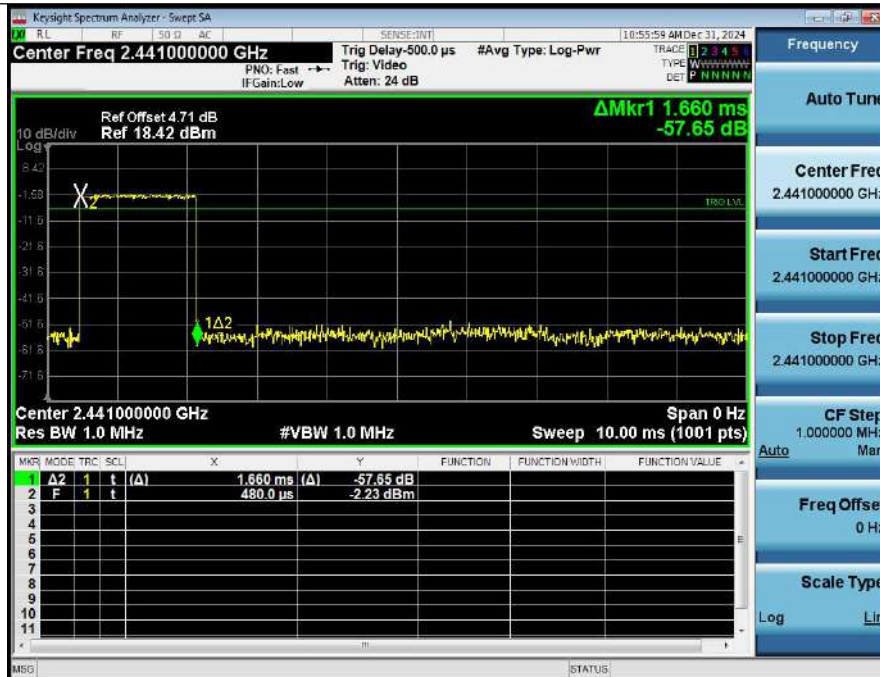
Dwell Time (Hopping) NVNT_ANT1_2-DH5_2441_00_One Burst Time



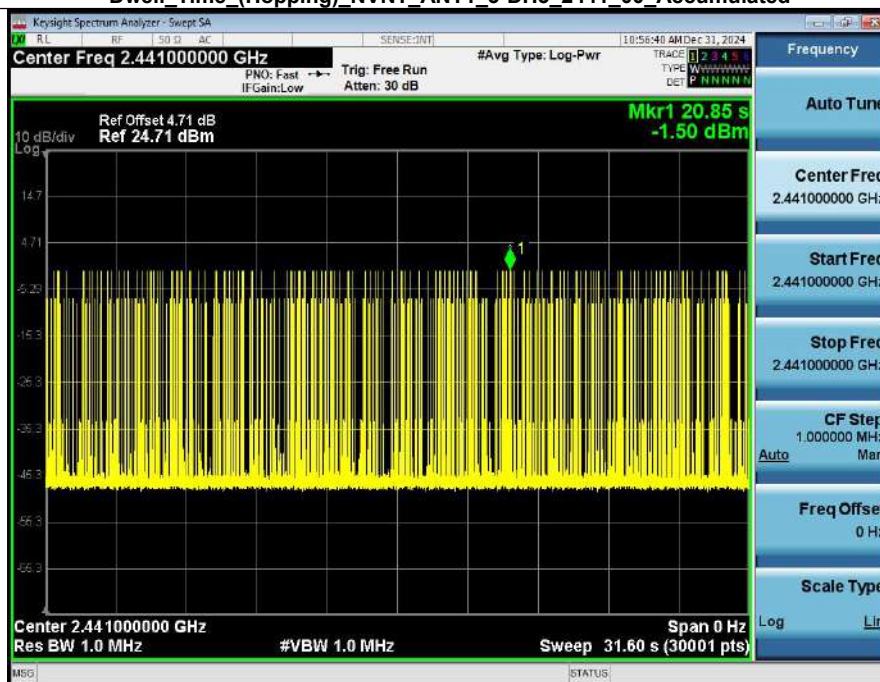
Dwell Time (Hopping) NVNT_ANT1_2-DH5_2441_00_Accumulated



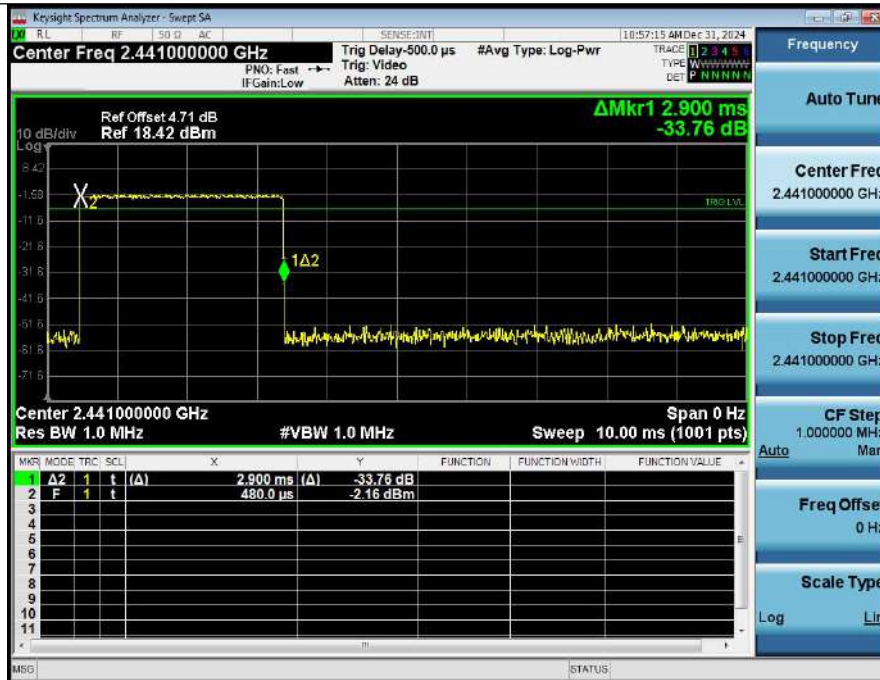
Dwell Time (Hopping) NVNT_ANT1_3-DH3_2441_00_One Burst Time



Dwell Time (Hopping) NVNT_ANT1_3-DH3_2441_00_Accumulated



Dwell Time (Hopping) NVNT_ANT1_3-DH5_2441_00_One Burst Time



Dwell Time (Hopping) NVNT_ANT1_3-DH5_2441_00_Accumulated

