



MAXLAB Testing Co.,Ltd.

Report No.: MAX250117110P01-R01

Table of Contents

1. Duty Cycle	2
2. -20dB Bandwidth	7
3. 99% Occupied Bandwidth	12
4. Peak Output Power	17
5. Spurious Emissions	22
6. Bandedge	32
7. Carrier Frequencies Separation (Hopping)	45
8. Number of Hopping Channel (Hopping)	50
9. Dwell Time (Hopping)	52

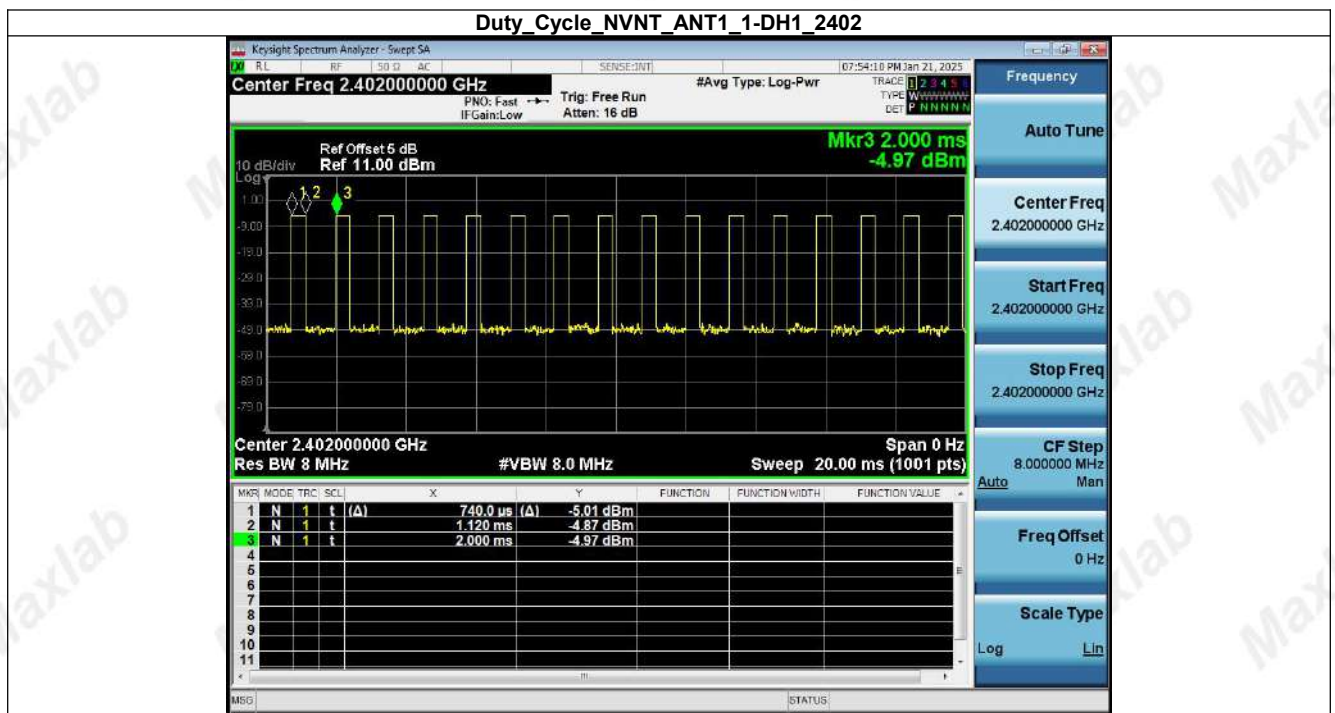
Report No.:MAX250117110P01-R01

FCC ID:2BMNJ-F118

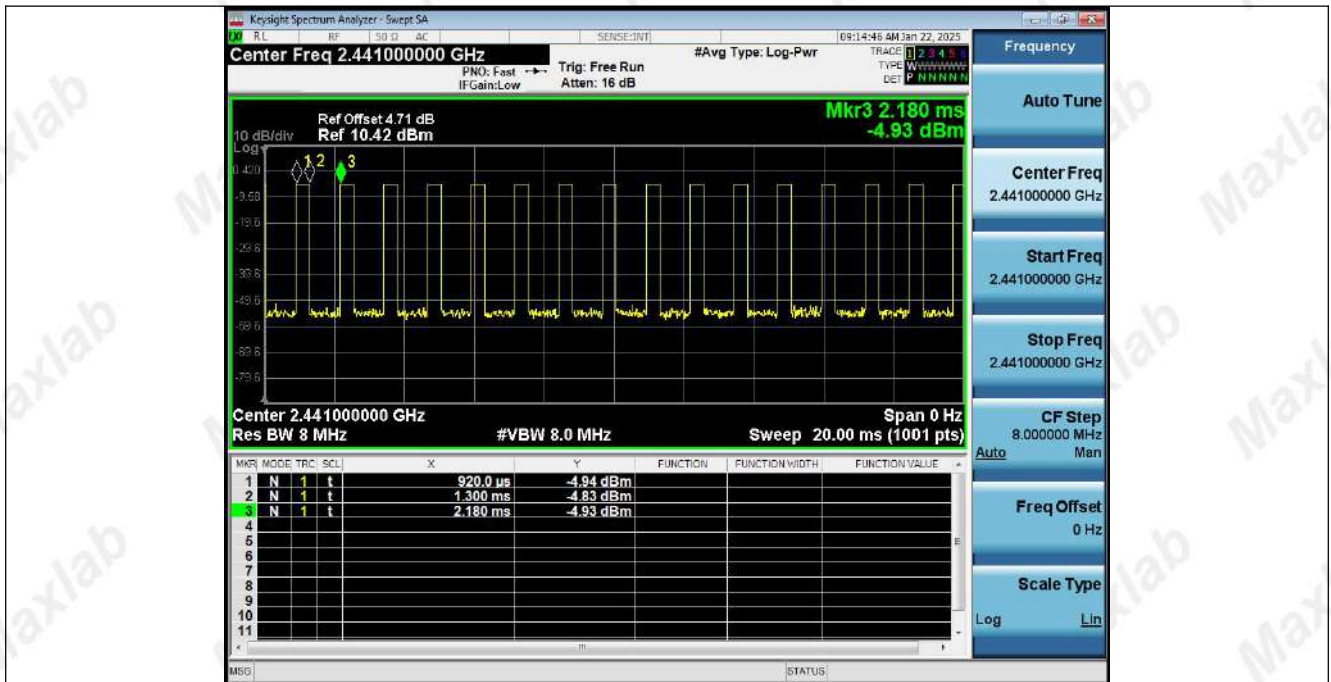
FCC_BT (Part15.247) Test Data

1. Duty Cycle

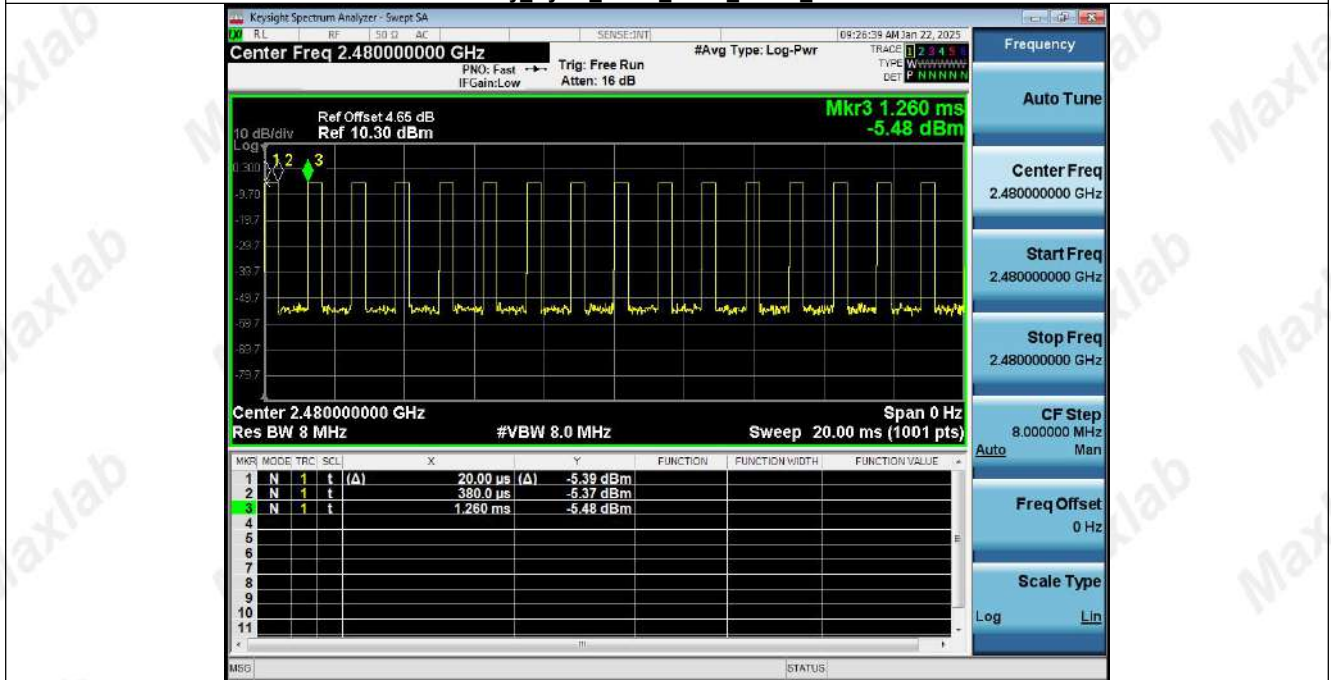
Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1-DH1	2402.00	30.16	5.21
NVNT	ANT1	1-DH1	2441.00	31.75	4.98
NVNT	ANT1	1-DH1	2480.00	29.03	5.37
NVNT	ANT1	2-DH1	2402.00	32.26	4.91
NVNT	ANT1	2-DH1	2441.00	30.65	5.14
NVNT	ANT1	2-DH1	2480.00	31.75	4.98
NVNT	ANT1	3-DH1	2402.00	31.75	4.98
NVNT	ANT1	3-DH1	2441.00	31.75	4.98
NVNT	ANT1	3-DH1	2480.00	30.65	5.14



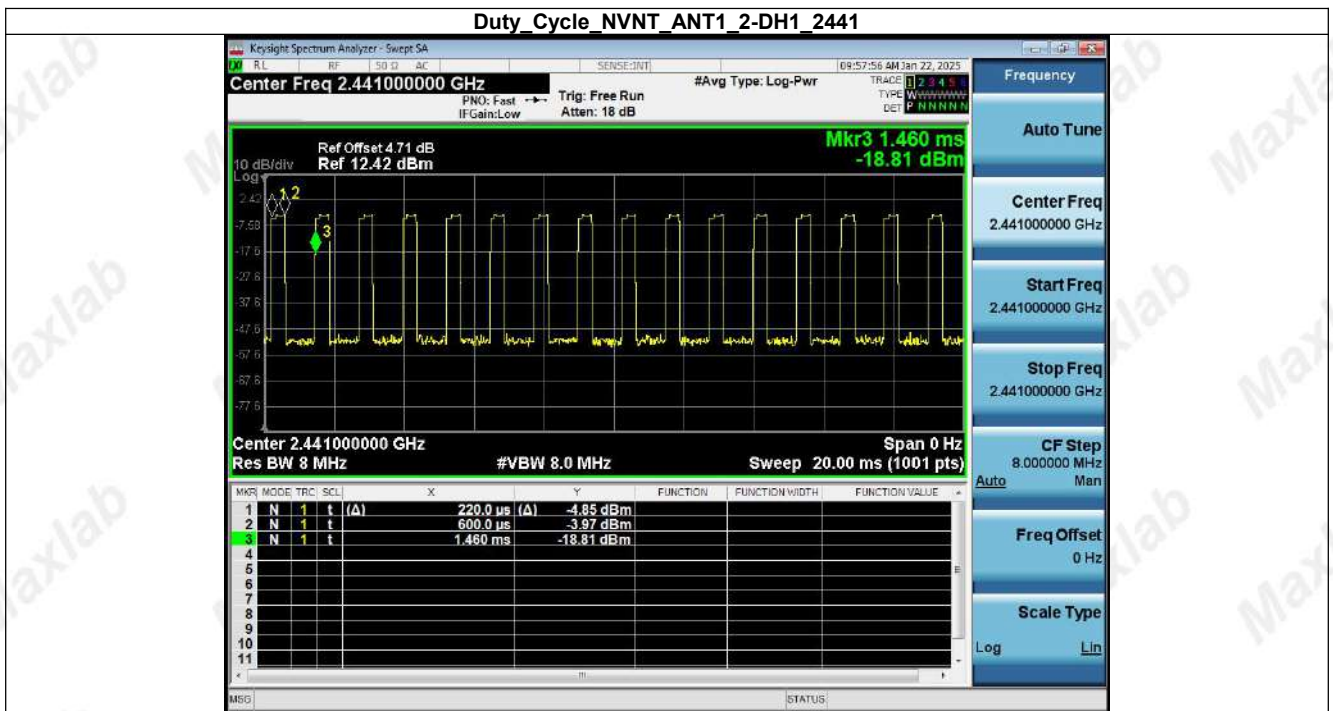
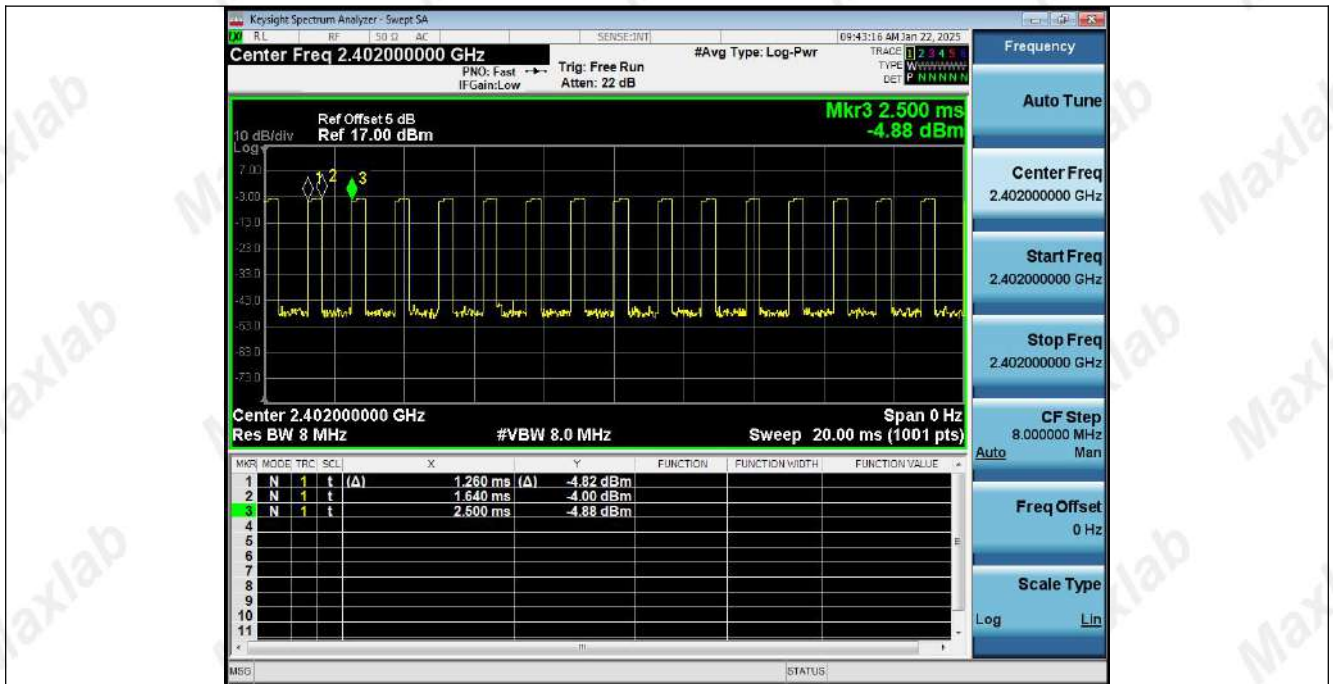
Duty_Cycle_NVNT_ANT1_1-DH1_2441



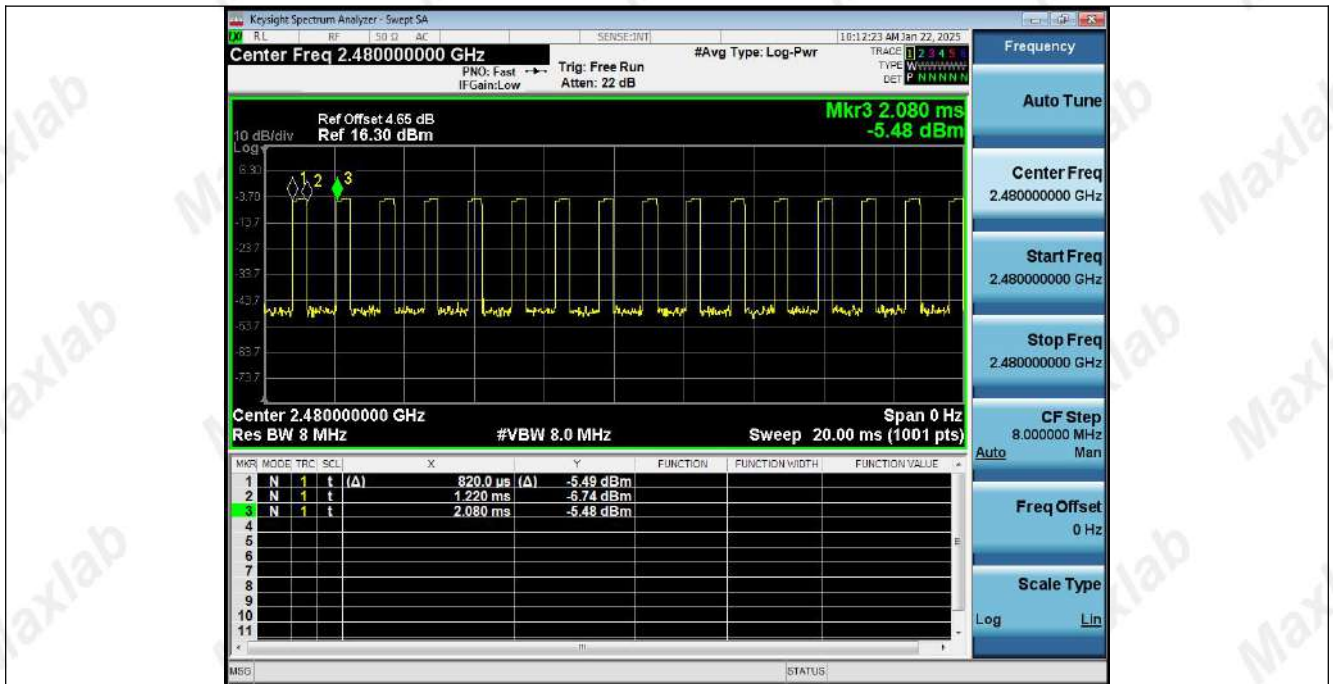
Duty Cycle_NVNT_ANT1_1-DH1_2480



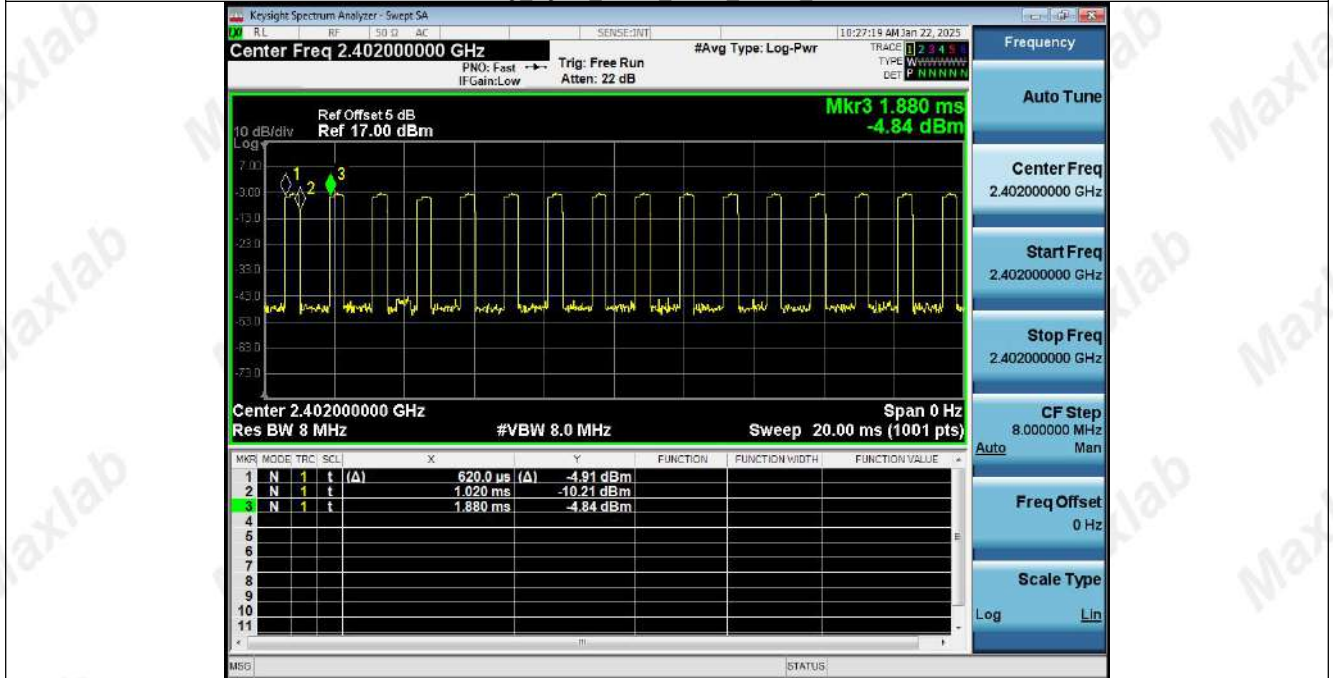
Duty Cycle_NVNT_ANT1_2-DH1_2402



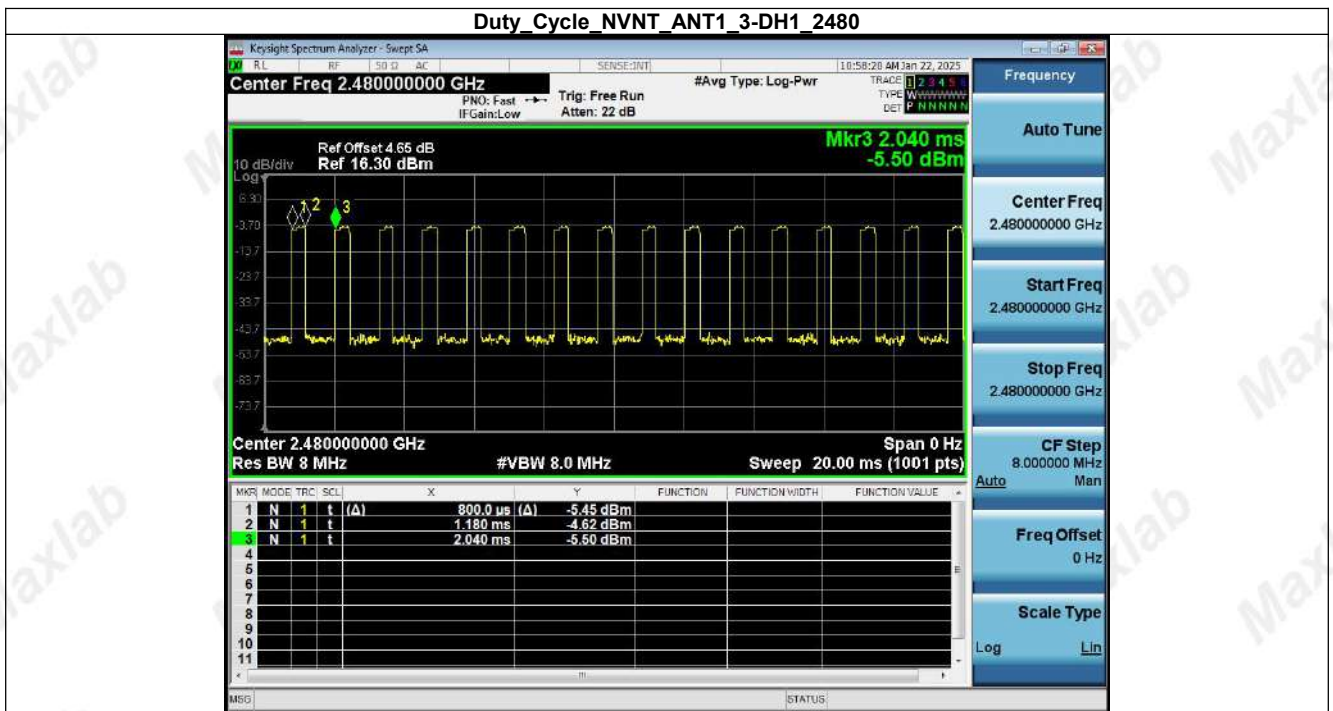
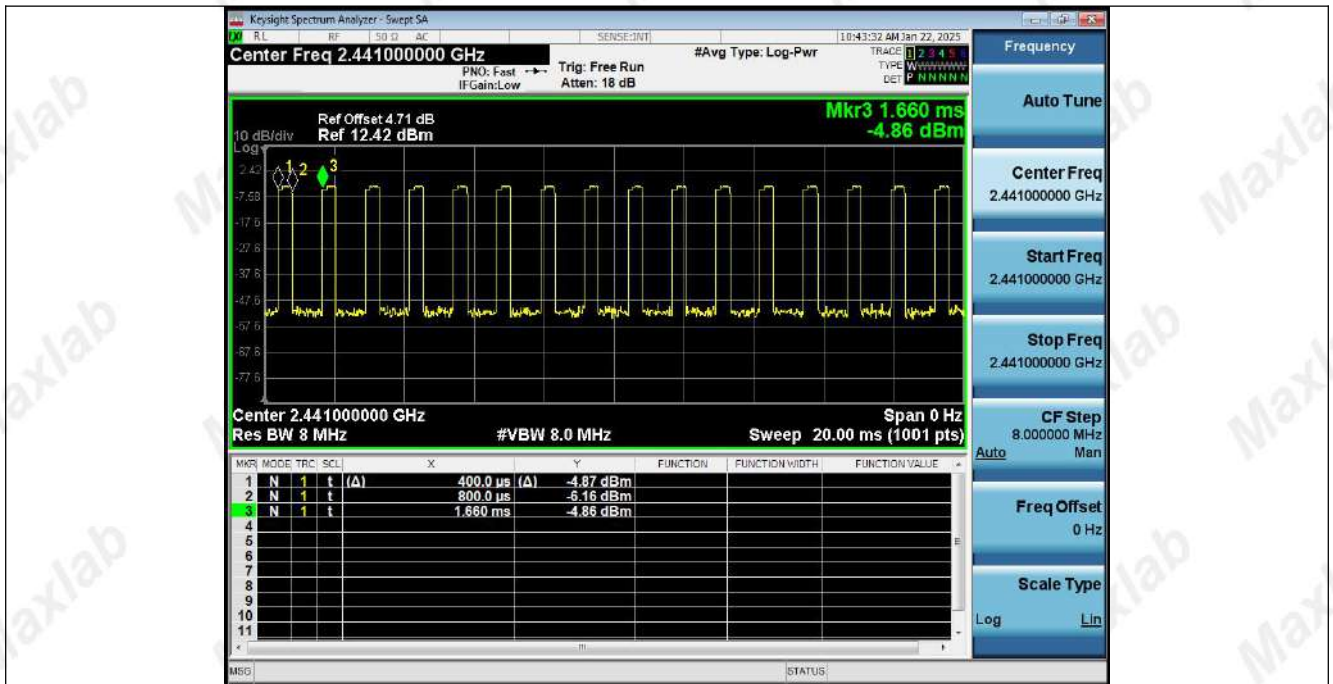
Duty Cycle_NVNT_ANT1_2-DH1_2480



Duty Cycle_NVNT_ANT1_3-DH1_2402

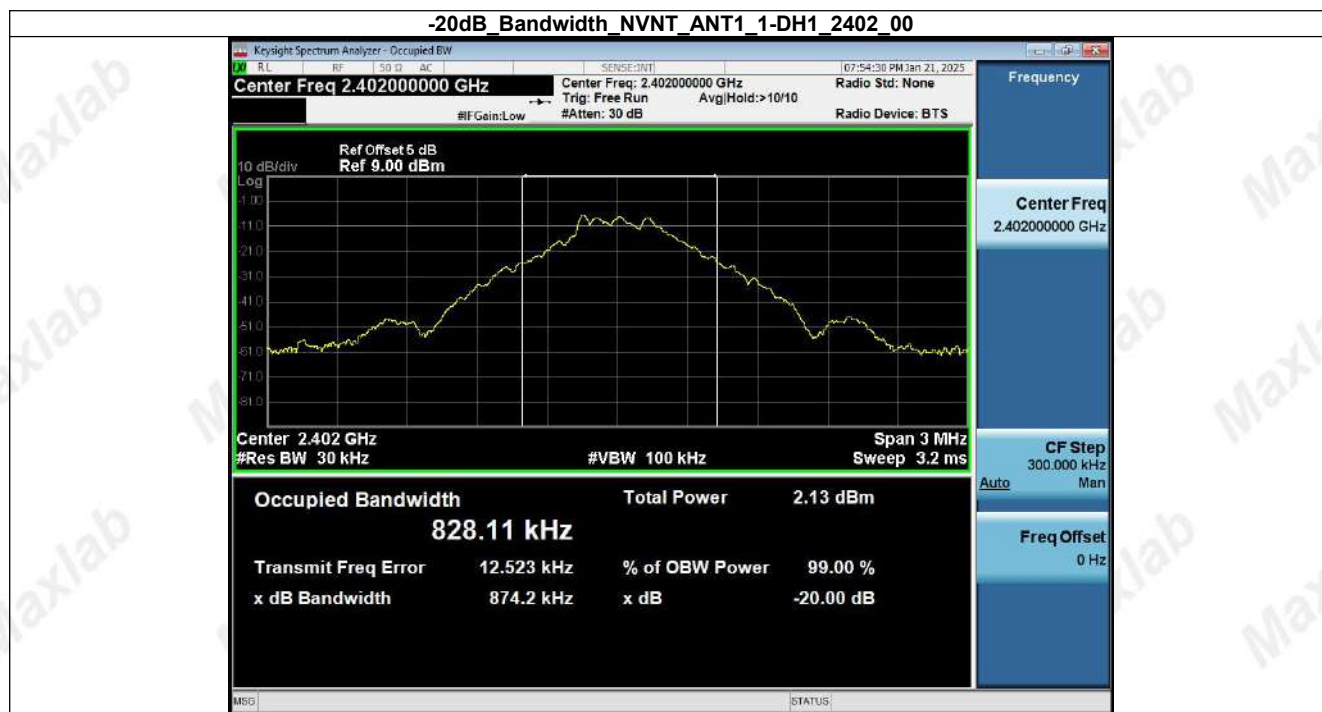


Duty Cycle_NVNT_ANT1_3-DH1_2441



2. -20dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH1	2402.00	0.874	No
NVNT	ANT1	1-DH1	2441.00	0.874	No
NVNT	ANT1	1-DH1	2480.00	0.876	No
NVNT	ANT1	2-DH1	2402.00	1.275	Yes
NVNT	ANT1	2-DH1	2441.00	1.278	Yes
NVNT	ANT1	2-DH1	2480.00	1.274	Yes
NVNT	ANT1	3-DH1	2402.00	1.225	Yes
NVNT	ANT1	3-DH1	2441.00	1.249	Yes
NVNT	ANT1	3-DH1	2480.00	1.244	Yes



-20dB_Bandwidth_NVNT_ANT1_1-DH1_2441_00









3. 99% Occupied Bandwidth

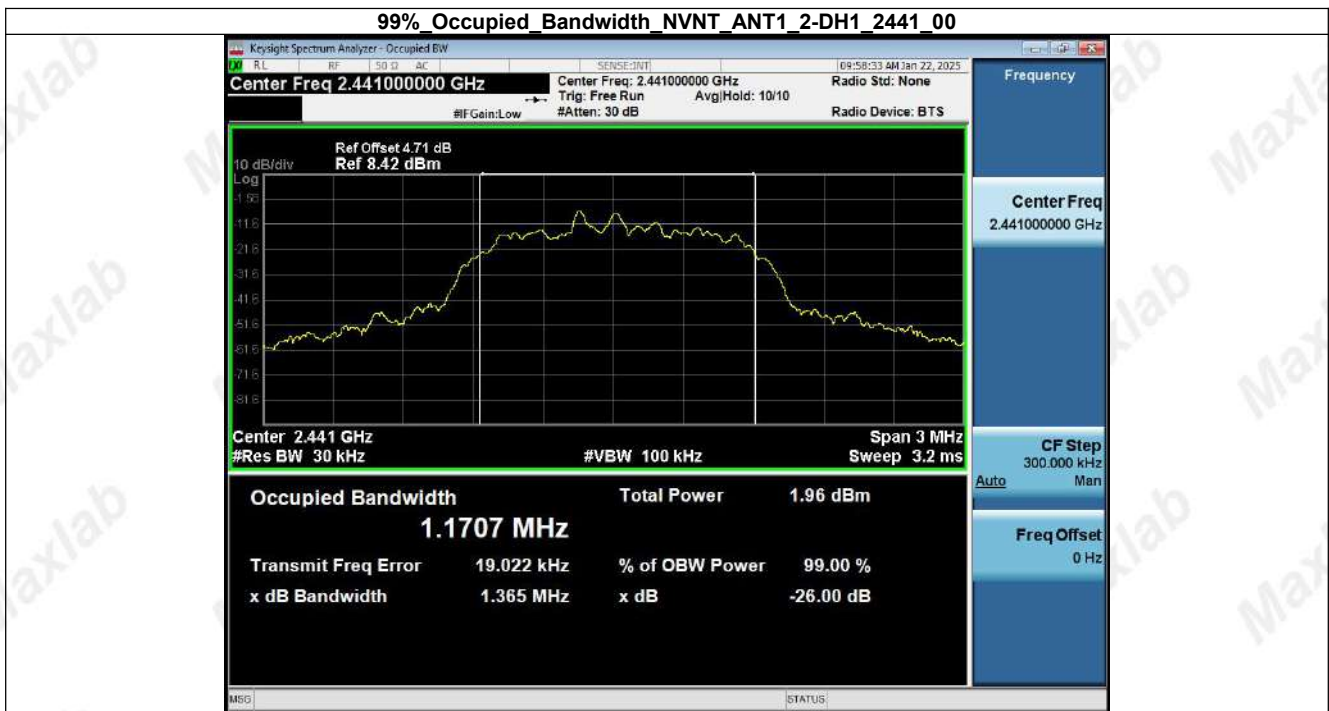
Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	1-DH1	2402.00	0.828
NVNT	ANT1	1-DH1	2441.00	0.828
NVNT	ANT1	1-DH1	2480.00	0.826
NVNT	ANT1	2-DH1	2402.00	1.168
NVNT	ANT1	2-DH1	2441.00	1.171
NVNT	ANT1	2-DH1	2480.00	1.172
NVNT	ANT1	3-DH1	2402.00	1.163
NVNT	ANT1	3-DH1	2441.00	1.164
NVNT	ANT1	3-DH1	2480.00	1.164



99%_Occupied_Bandwidth_NVNT_ANT1_1-DH1_2441_00



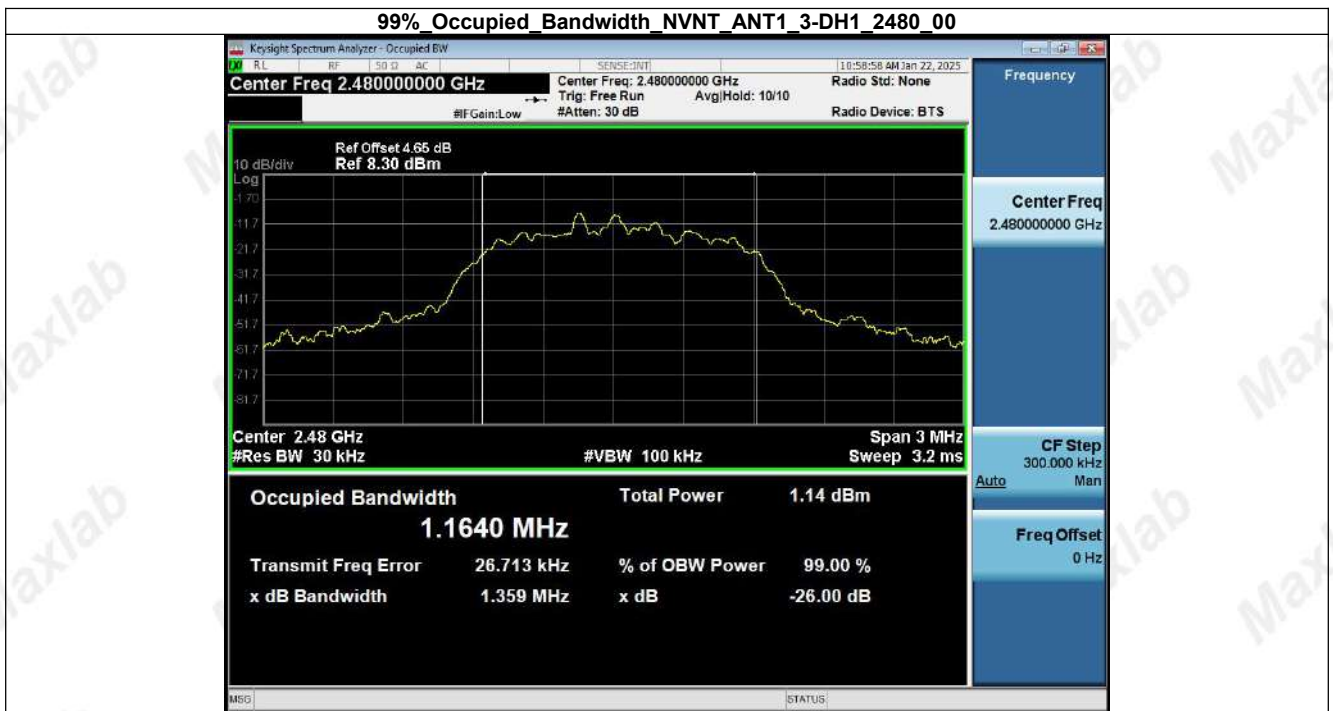
99% Occupied Bandwidth NVNT_ANT1_2-DH1_2402_00



99%_Occupied_Bandwidth_NVNT_ANT1_2-DH1_2480_00



99%_Occupied_Bandwidth_NVNT_ANT1_3-DH1_2441_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	-0.98	0.80	1000	Pass
NVNT	ANT1	1-DH1	2441.00	-1.20	0.76	1000	Pass
NVNT	ANT1	1-DH1	2480.00	-1.98	0.63	1000	Pass
NVNT	ANT1	2-DH1	2402.00	-0.27	0.94	125	Pass
NVNT	ANT1	2-DH1	2441.00	-0.42	0.91	125	Pass
NVNT	ANT1	2-DH1	2480.00	-1.23	0.75	125	Pass
NVNT	ANT1	3-DH1	2402.00	0.29	1.07	125	Pass
NVNT	ANT1	3-DH1	2441.00	0.16	1.04	125	Pass
NVNT	ANT1	3-DH1	2480.00	-0.61	0.87	125	Pass



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



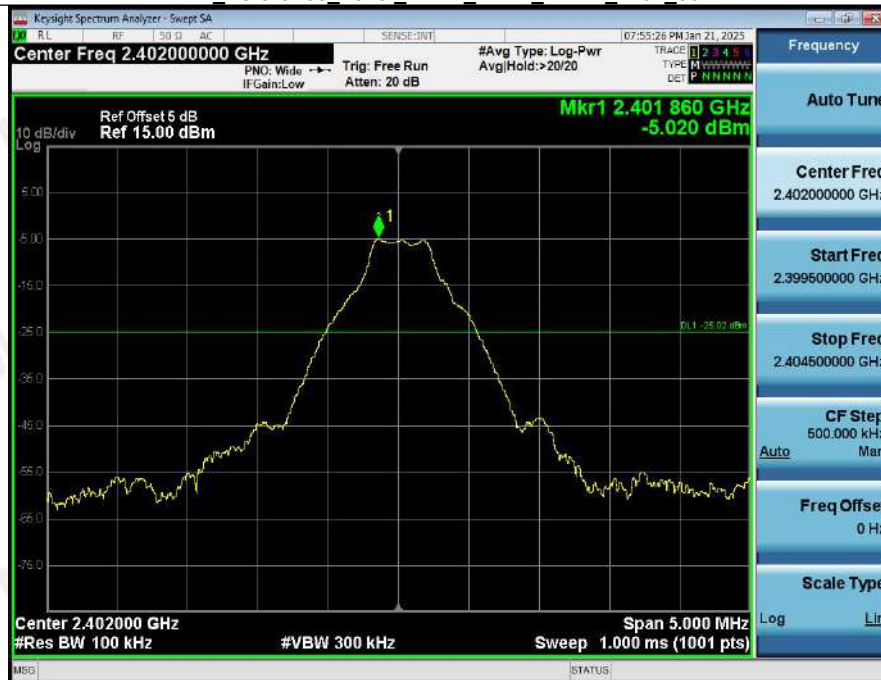
Peak Output Power_NVNT_ANT1_3-DH1_2441_00



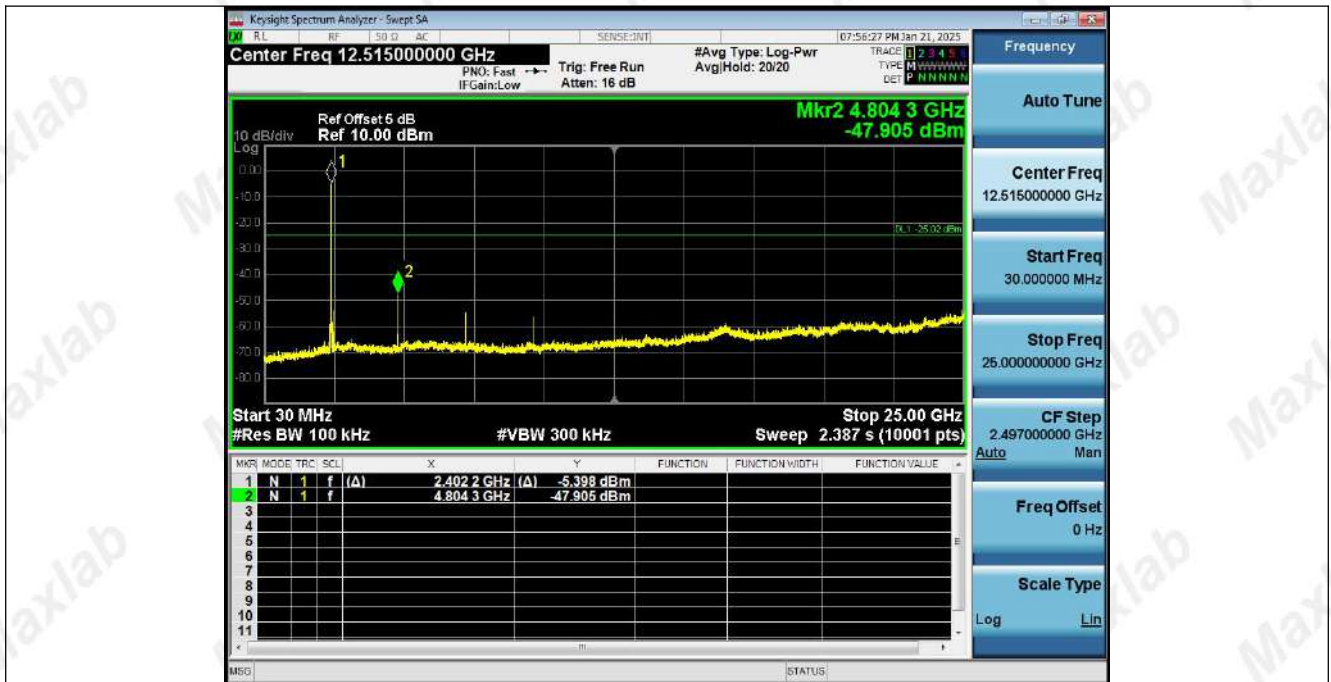
5. Spurious Emissions

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH1	2402.00	-5.020	-47.905	-25.020	Pass
NVNT	ANT1	1-DH1	2441.00	-5.008	-49.167	-25.008	Pass
NVNT	ANT1	1-DH1	2480.00	-5.525	-48.075	-25.525	Pass
NVNT	ANT1	2-DH1	2402.00	-4.983	-50.041	-24.983	Pass
NVNT	ANT1	2-DH1	2441.00	-4.893	-49.167	-24.893	Pass
NVNT	ANT1	2-DH1	2480.00	-5.576	-48.600	-25.576	Pass
NVNT	ANT1	3-DH1	2402.00	-4.962	-48.332	-24.962	Pass
NVNT	ANT1	3-DH1	2441.00	-5.058	-47.938	-25.058	Pass
NVNT	ANT1	3-DH1	2480.00	-5.562	-49.013	-25.562	Pass

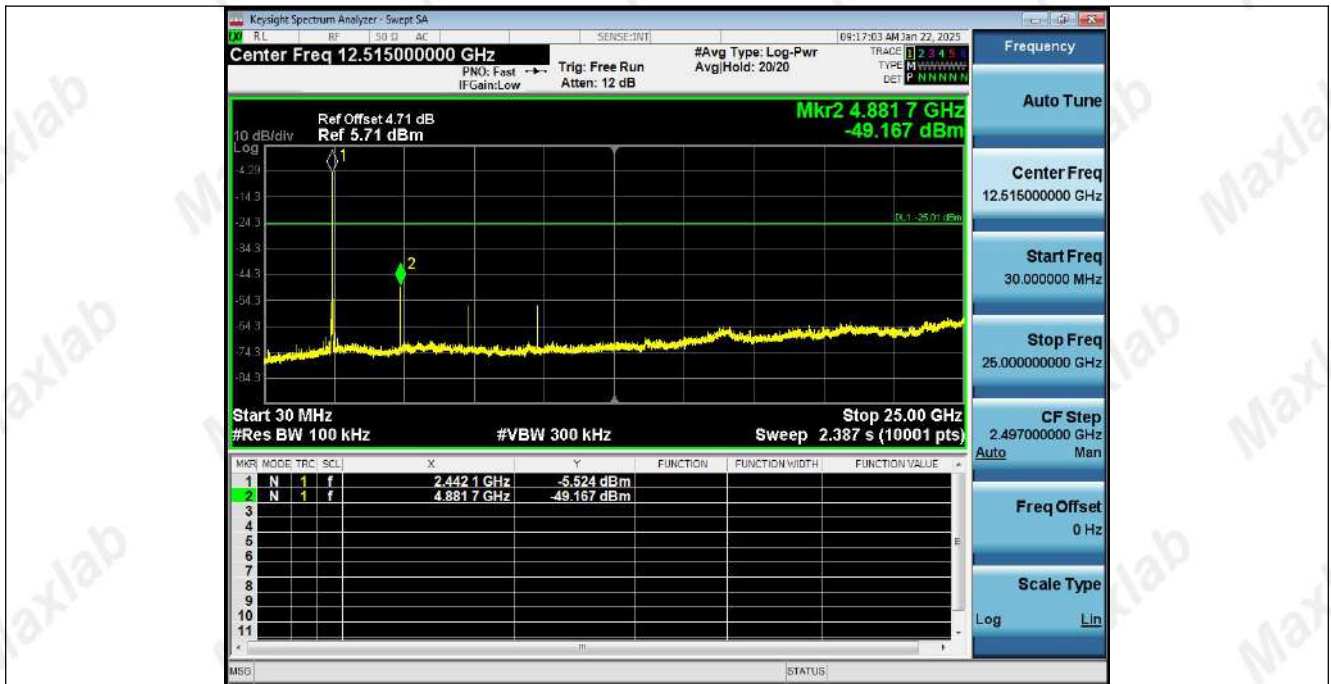
1_Reference_Level_NVNT_ANT1_1-DH1_2402_00



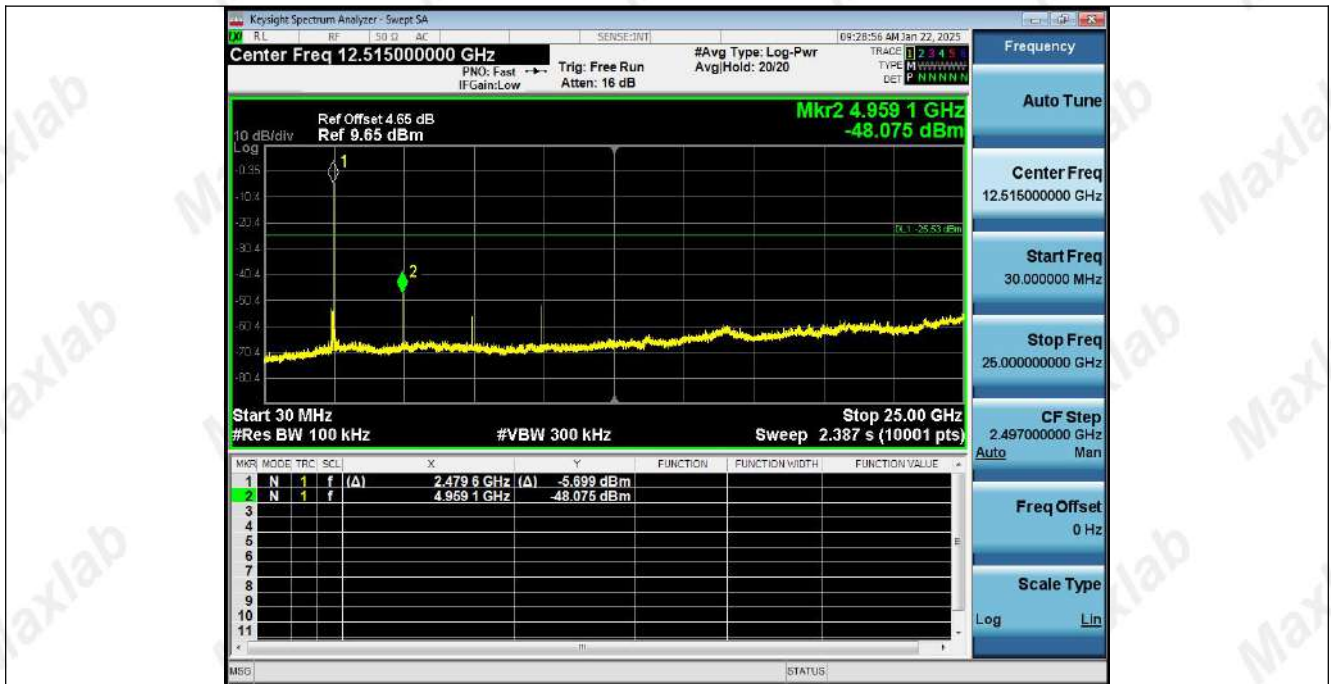
2_Spurious_Emissions_NVNT_ANT1_1-DH1_2402_00



2 Spurious Emissions NVNT ANT1 1-DH1 2441 00



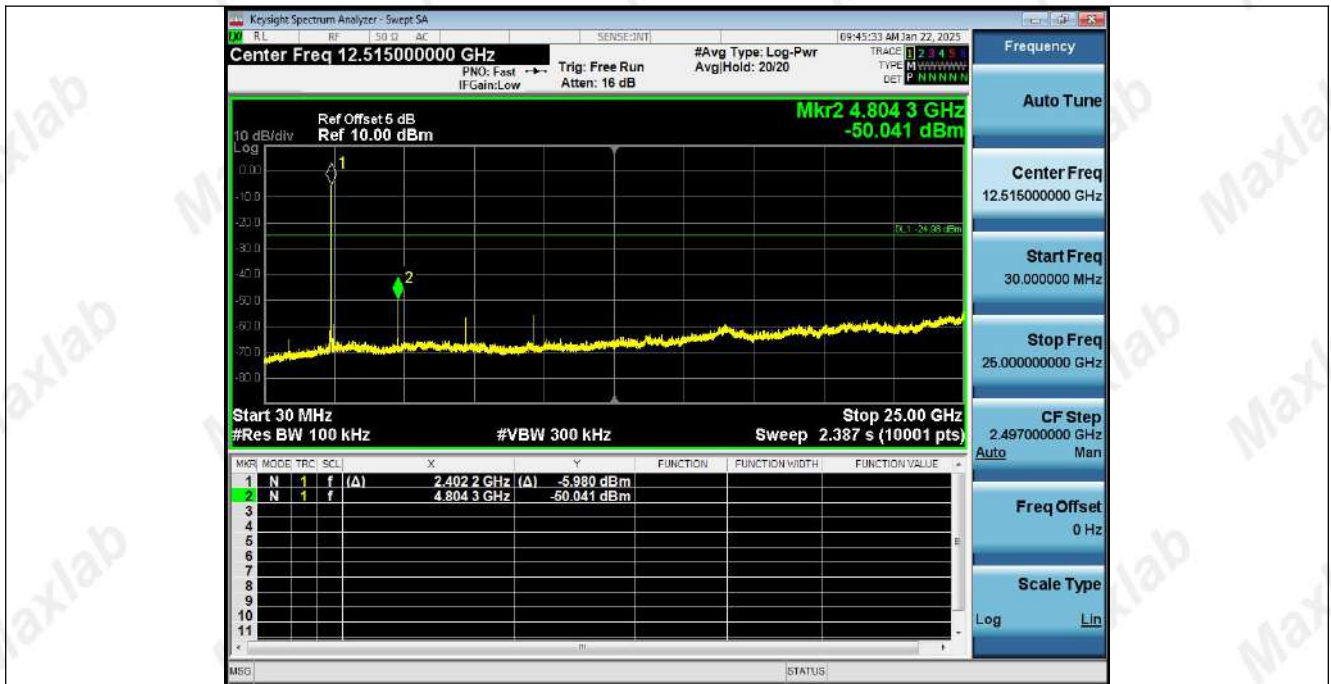
2 Spurious Emissions NVNT ANT1 1-DH1 2480 00



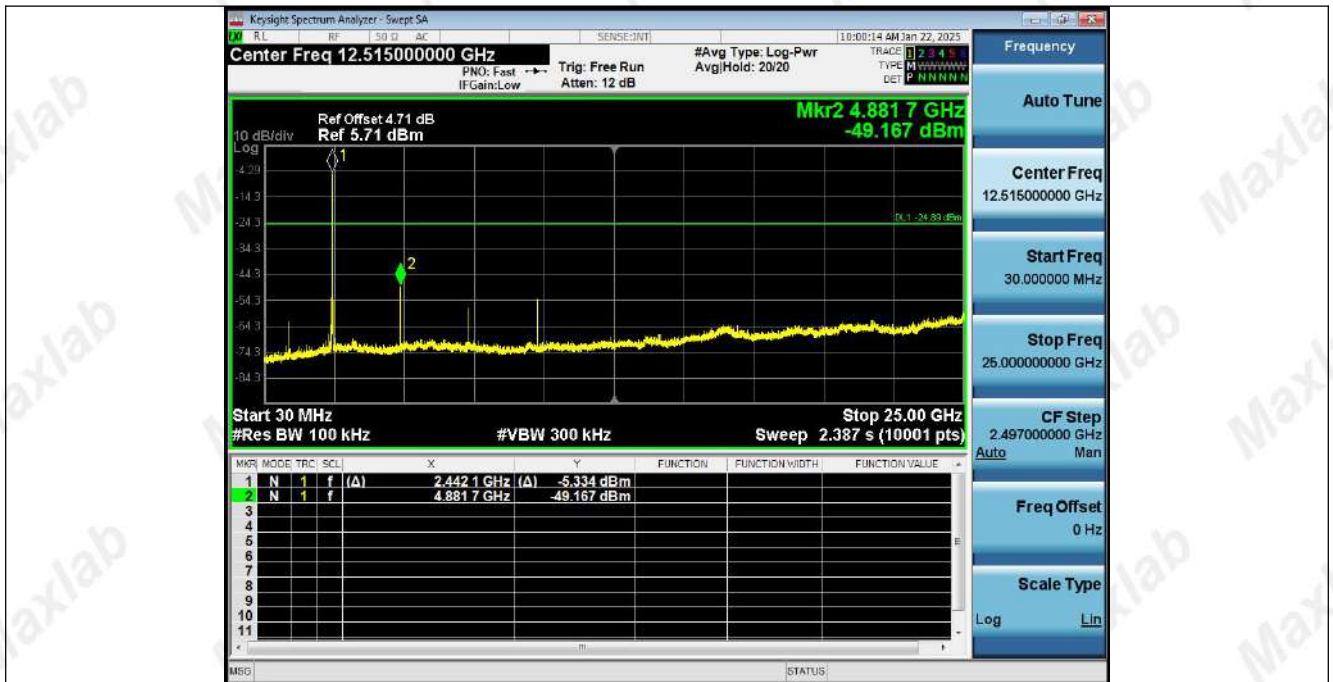
1 Reference Level NVNT ANT1 2-DH1 2402 00



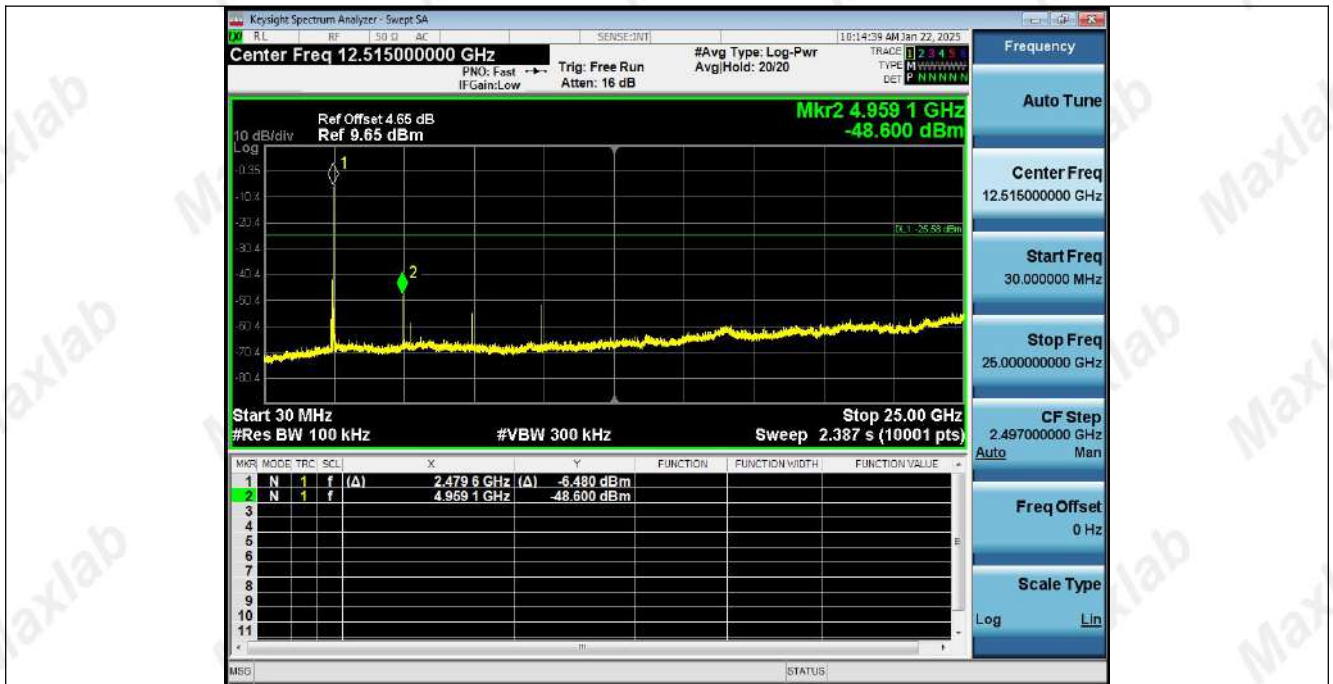
2 Spurious Emissions NVNT ANT1 2-DH1 2402 00



2 Spurious Emissions NVNT ANT1 2-DH1 2441 00



2 Spurious Emissions NVNT ANT1 2-DH1 2480 00



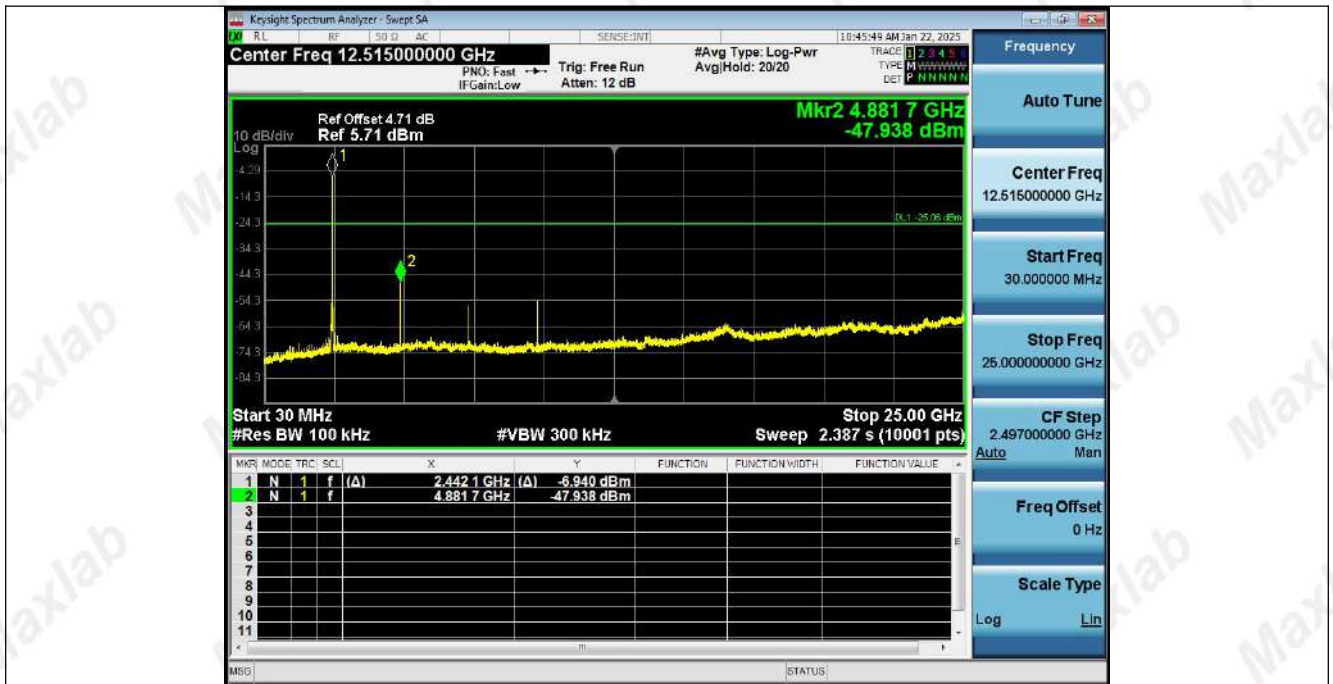
1 Reference Level NVNT ANT1 3-DH1 2402 00



2 Spurious Emissions NVNT ANT1 3-DH1 2402 00



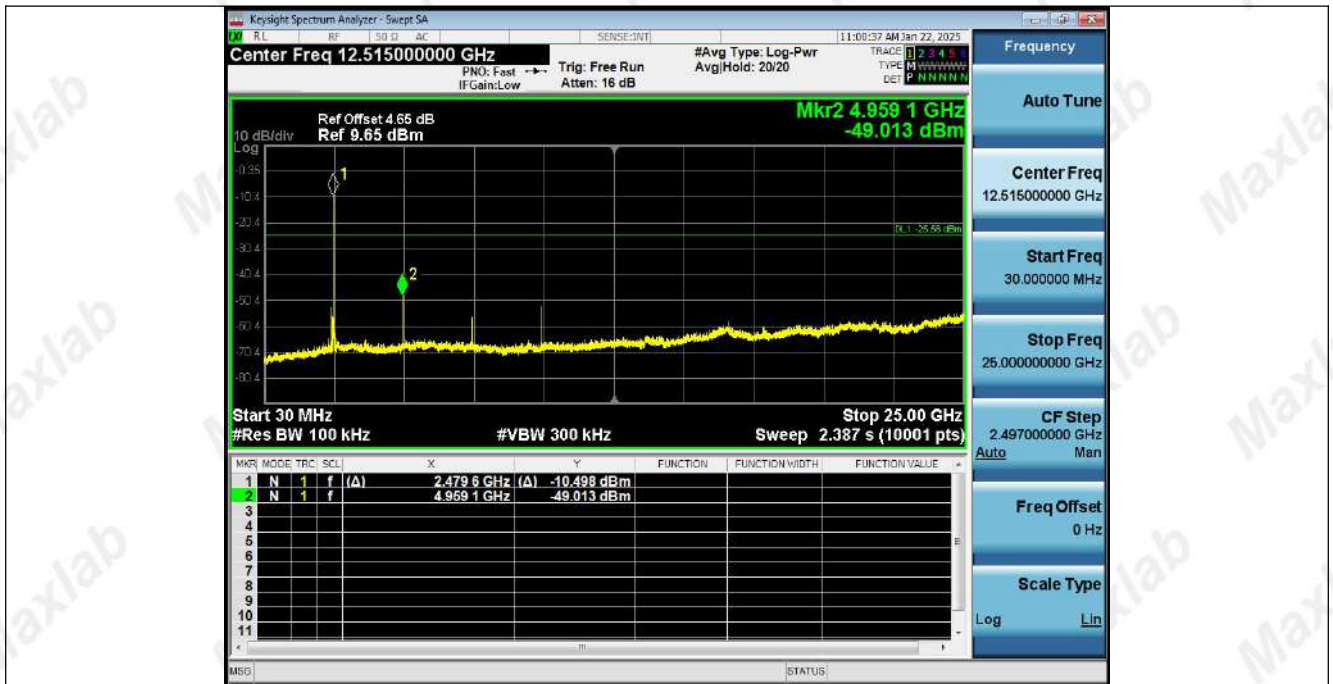
2 Spurious Emissions NVNT ANT1 3-DH1 2441 00



1 Reference Level NVNT ANT1 3-DH1 2480 00



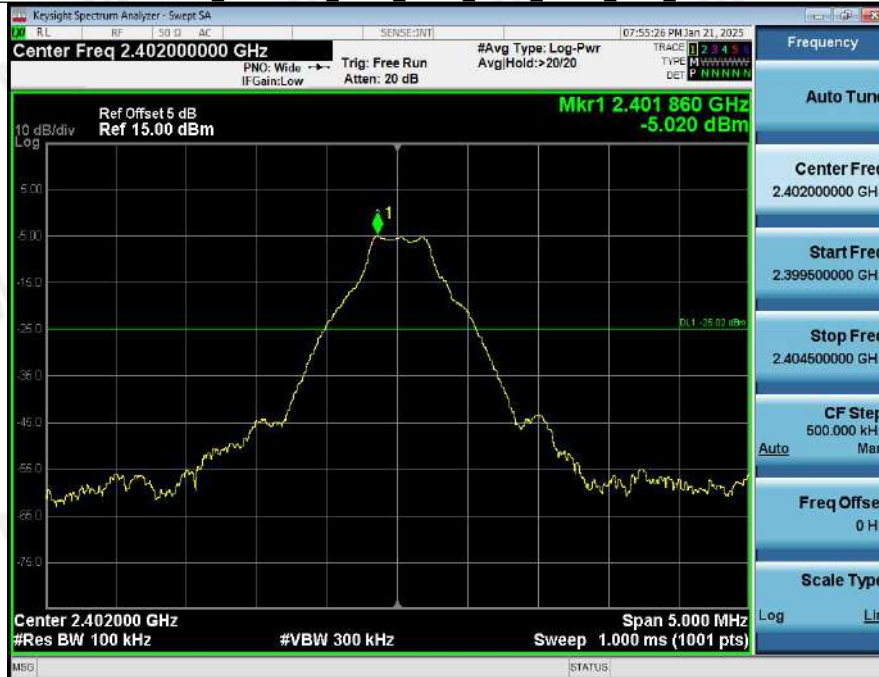
2 Spurious Emissions NVNT ANT1 3-DH1 2480 00



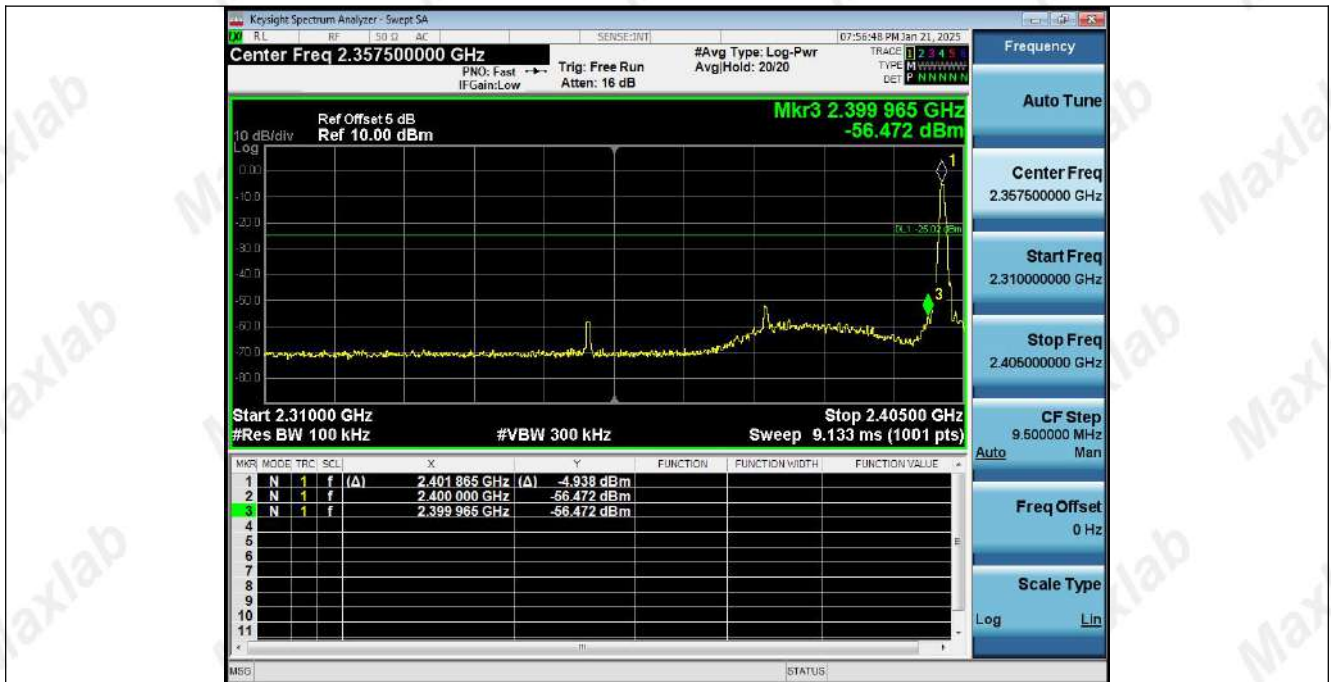
6. Bandedge

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Bandedge MAX.Value	Limit	Result
NVNT	ANT1	1-DH1	2402.00	-5.020	-56.472	-25.020	Pass
NVNT	ANT1	1-DH1	Hopping_LCH	-4.606	-52.447	-24.606	Pass
NVNT	ANT1	1-DH1	2480.00	-5.525	-59.090	-25.525	Pass
NVNT	ANT1	1-DH1	Hopping_HCH	-4.789	-51.650	-24.789	Pass
NVNT	ANT1	2-DH1	2402.00	-4.983	-55.404	-24.983	Pass
NVNT	ANT1	2-DH1	Hopping_LCH	-4.533	-52.818	-24.533	Pass
NVNT	ANT1	2-DH1	2480.00	-5.576	-59.002	-25.576	Pass
NVNT	ANT1	2-DH1	Hopping_HCH	-4.844	-52.052	-24.844	Pass
NVNT	ANT1	3-DH1	2402.00	-4.962	-55.014	-24.962	Pass
NVNT	ANT1	3-DH1	Hopping_LCH	-4.558	-52.358	-24.558	Pass
NVNT	ANT1	3-DH1	2480.00	-5.562	-59.098	-25.562	Pass
NVNT	ANT1	3-DH1	Hopping_HCH	-4.878	-52.174	-24.878	Pass

1 Reference Level NVNT ANT1 1-DH1 2402_00



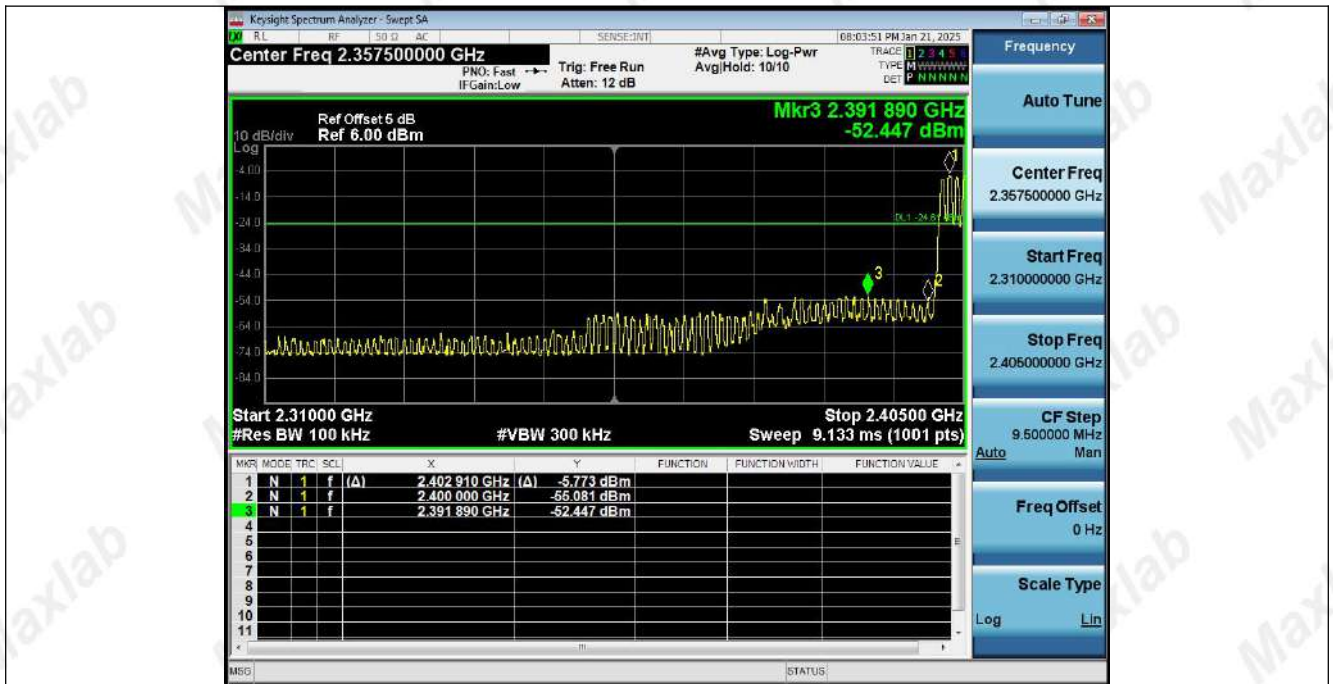
2 Bandedge NVNT ANT1 1-DH1 2402_00



1 Reference_Level_Hopping_NVNT_ANT1_1-DH1_Hopping



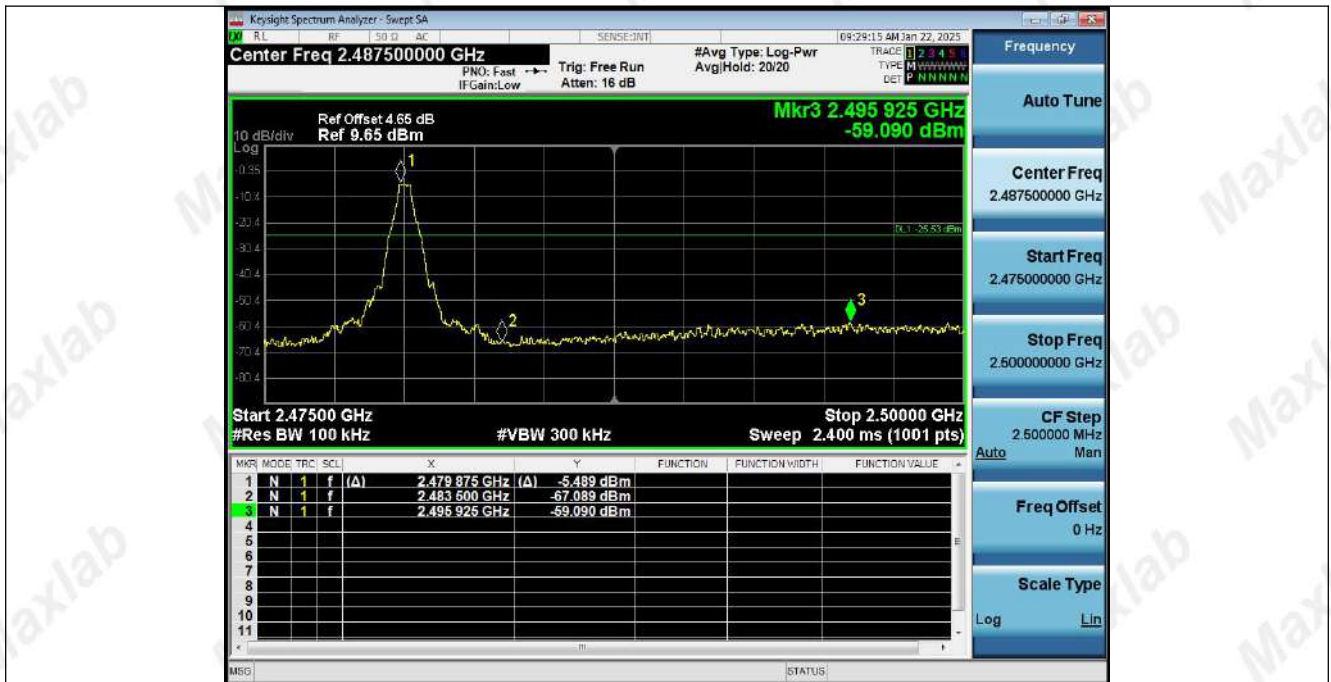
2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH1_Hopping



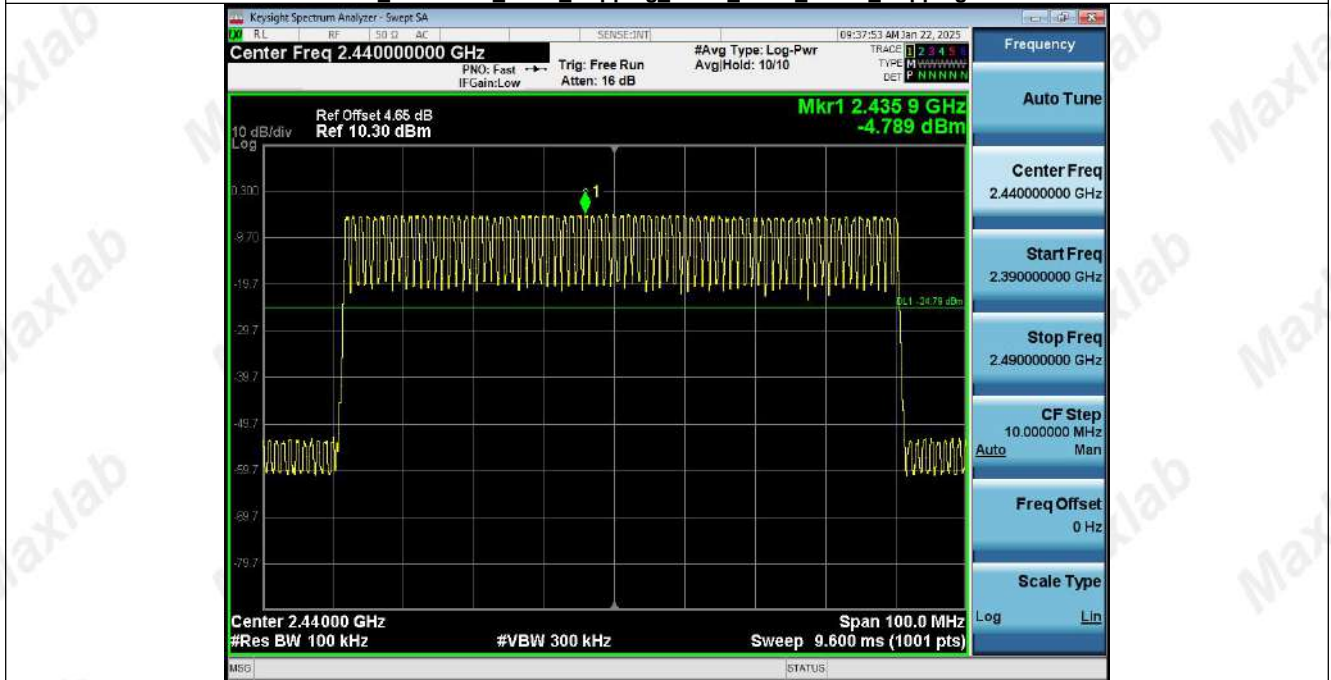
1 Reference Level NVNT_ANT1_1-DH1_2480_00



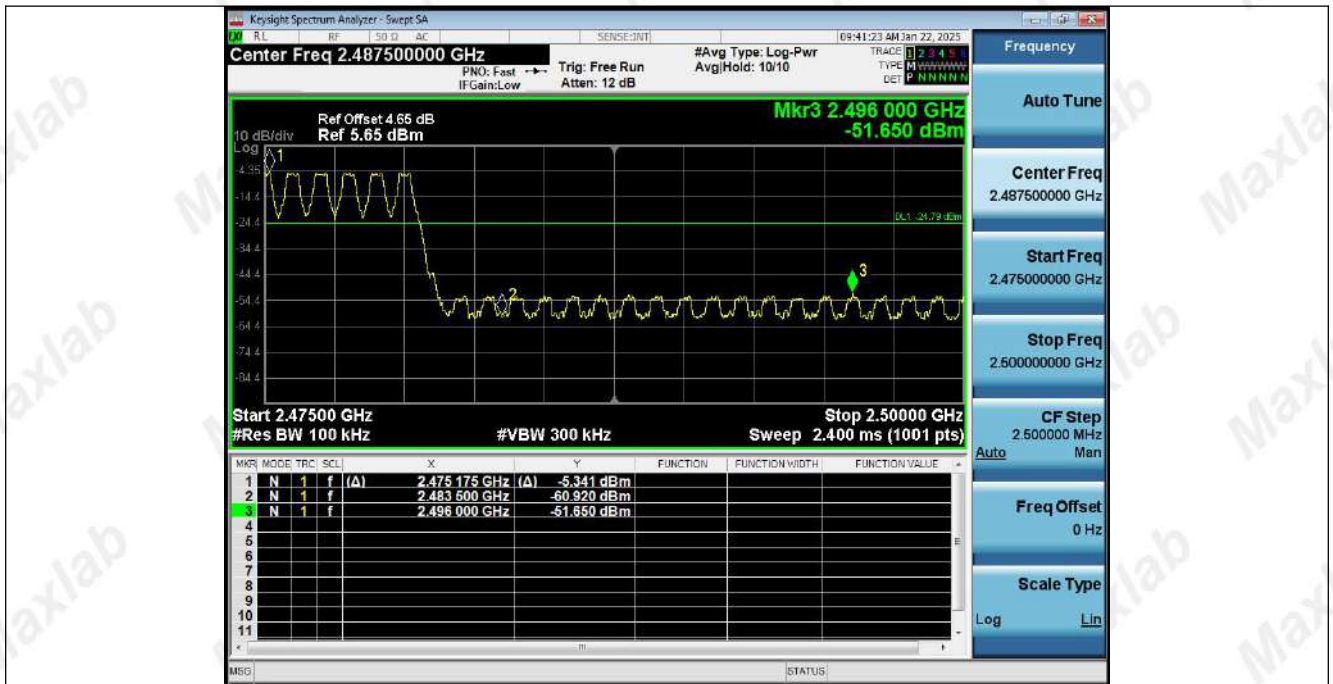
2 Bandedge NVNT_ANT1_1-DH1_2480_00



1 Reference_Level_Hopping_NVNT_ANT1_1-DH1_Hopping



2 Band_Edge_(Hopping)_NVNT_ANT1_1-DH1_Hopping



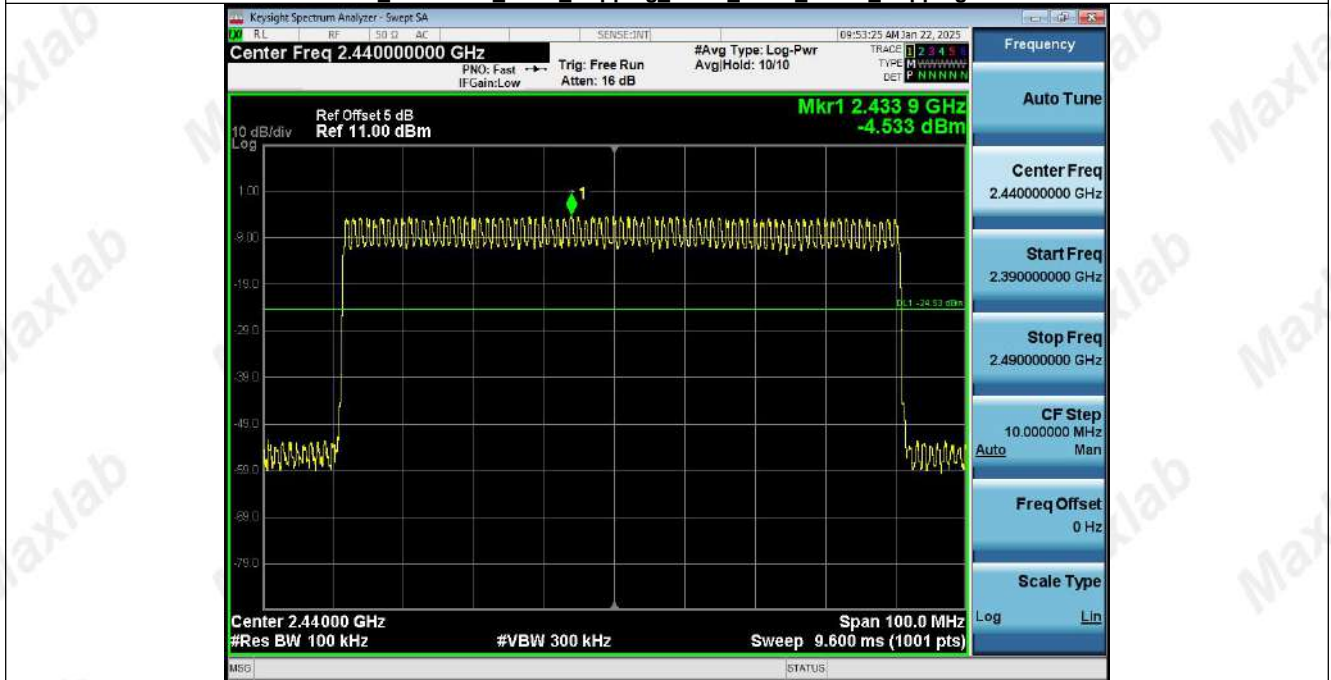
1 Reference Level NVNT_ANT1_2-DH1_2402_00



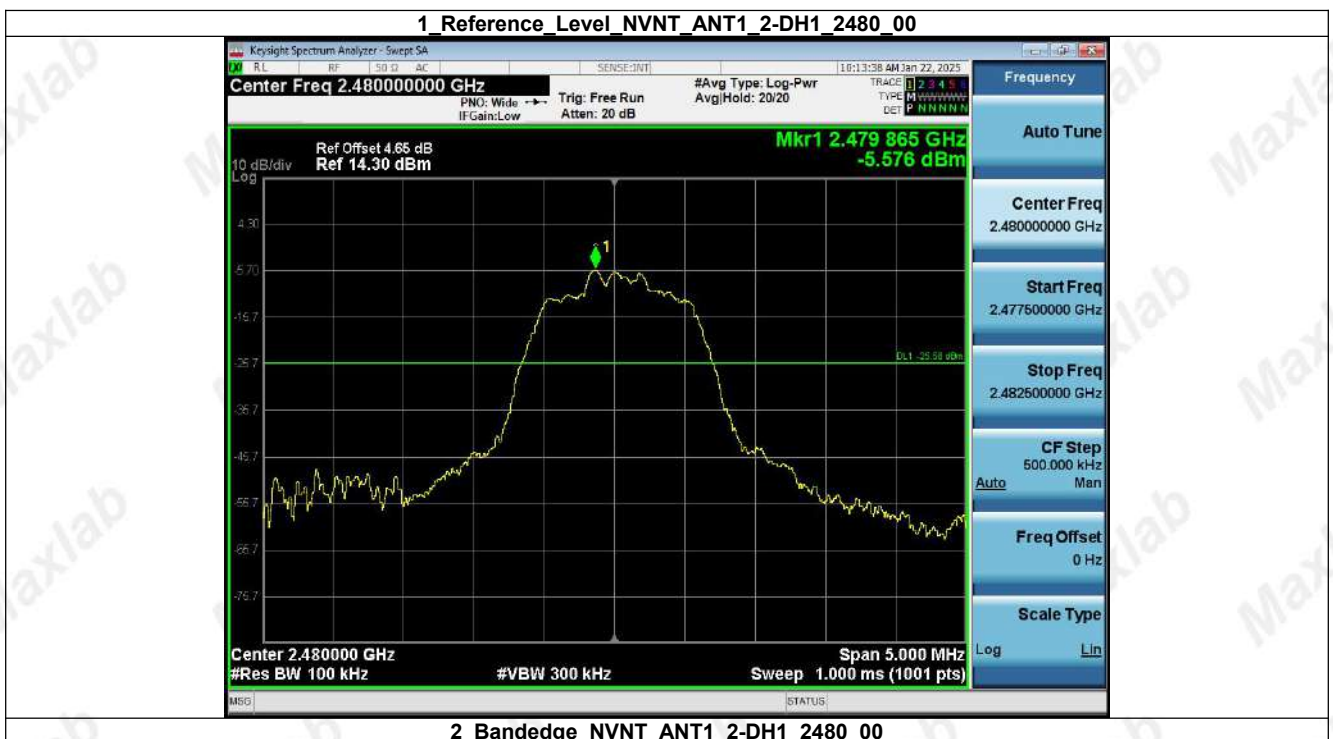
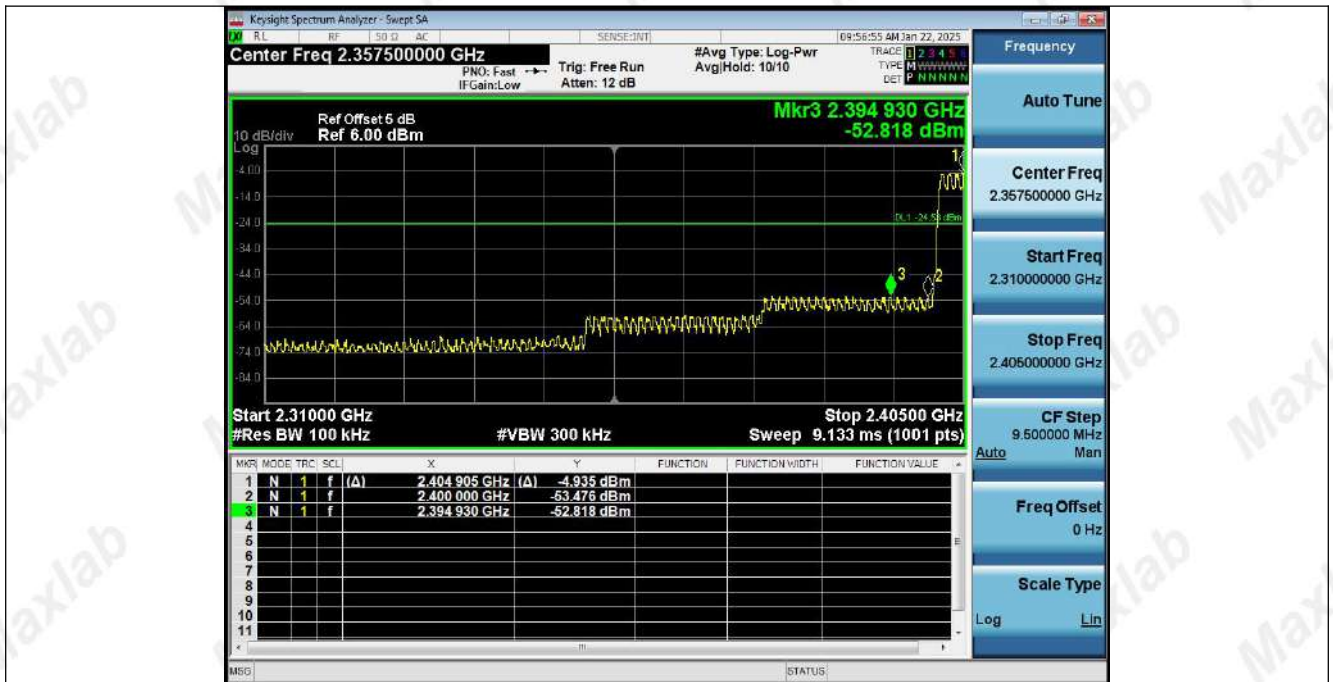
2 Bandedge NVNT_ANT1_2-DH1_2402_00



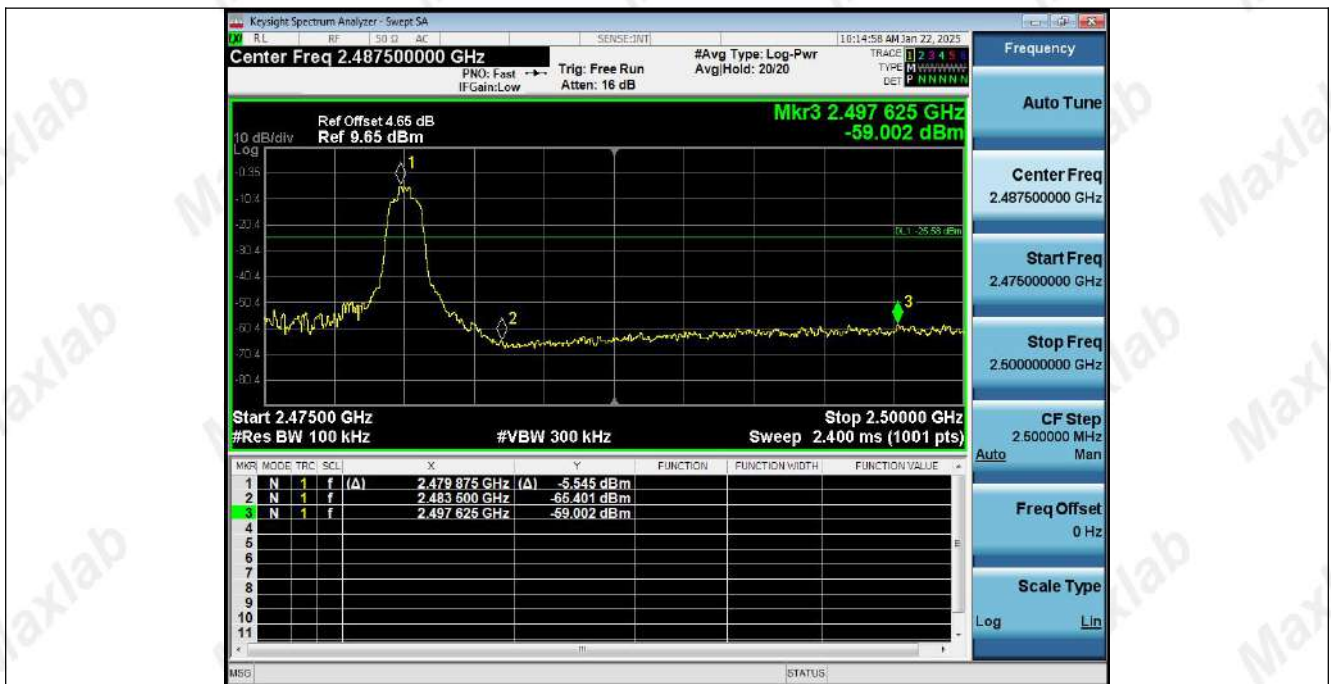
1 Reference_Level_Hopping_NVNT_ANT1_2-DH1_Hopping



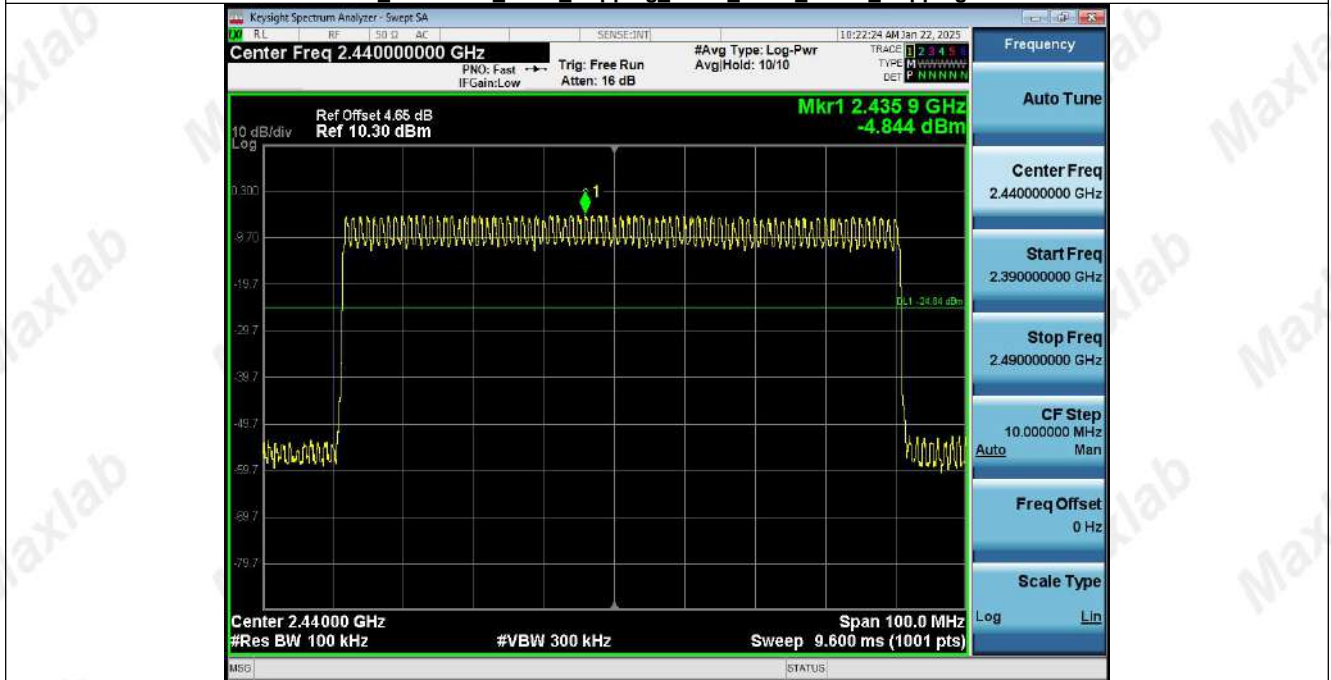
2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH1_Hopping



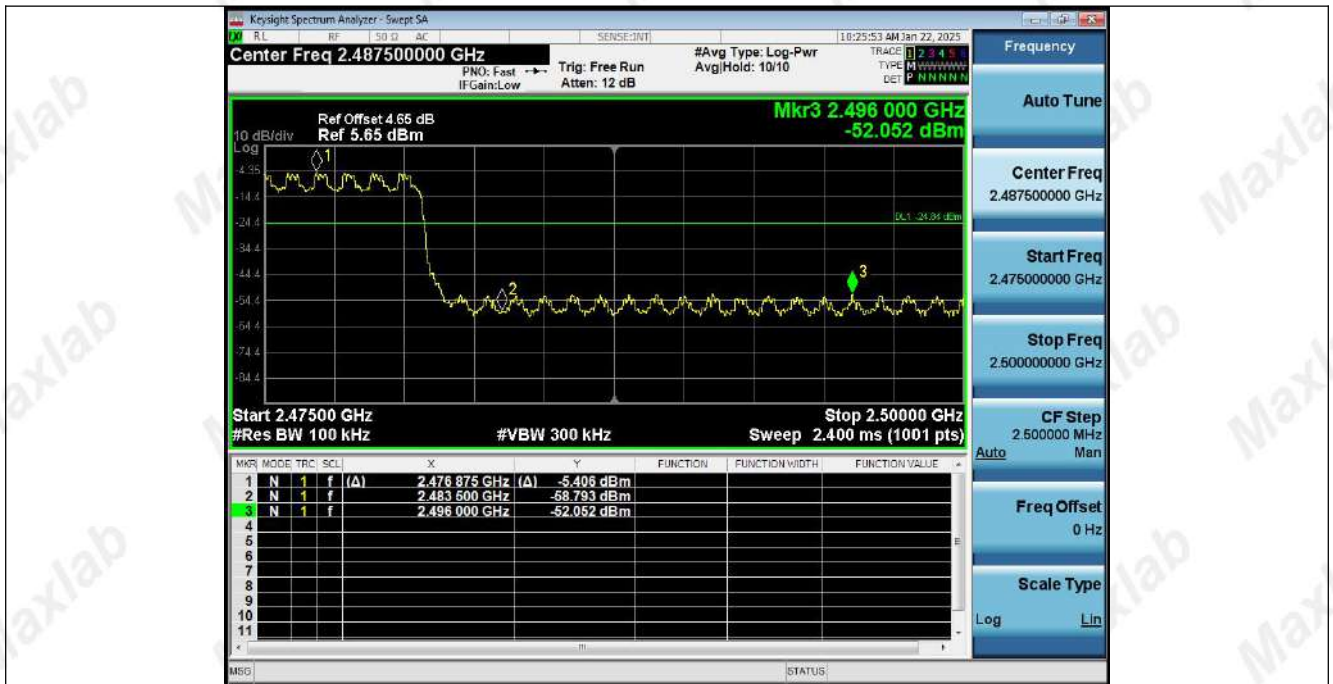
2_Bandedge_NVNT_ANT1_2-DH1_2480_00



1 Reference_Level_Hopping_NVNT_ANT1_2-DH1_Hopping



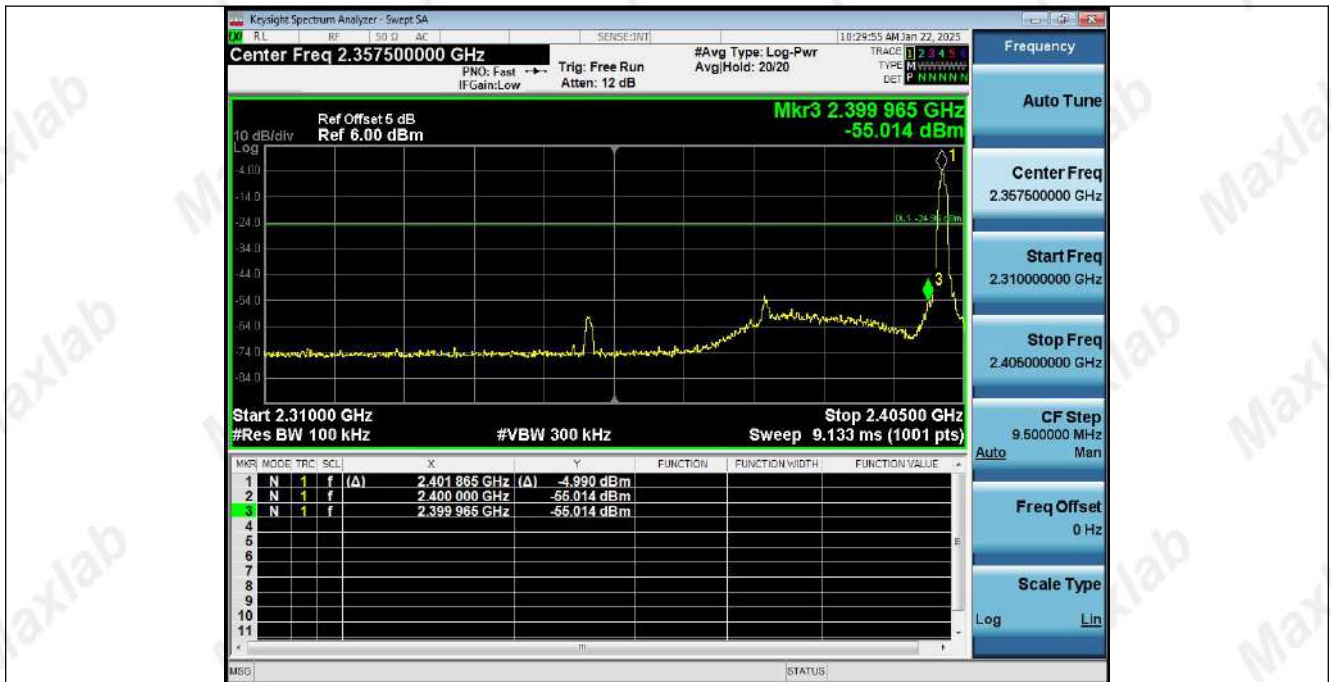
2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH1_Hopping



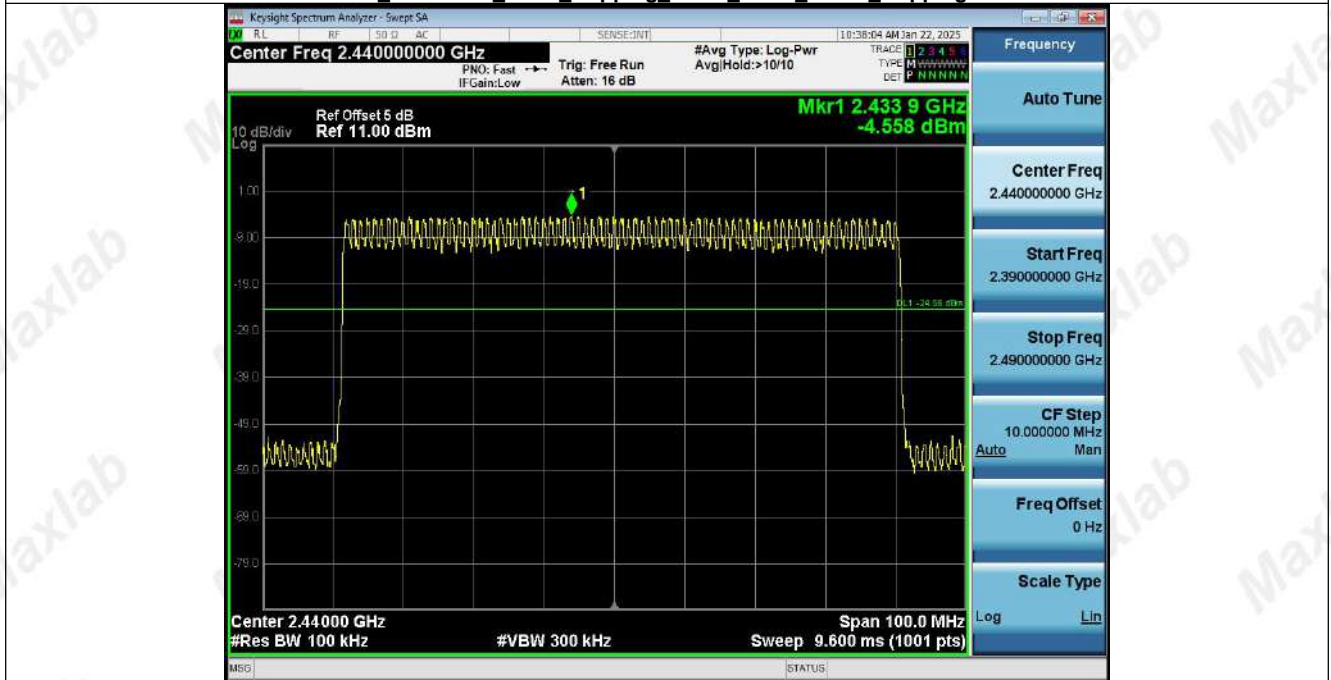
1 Reference Level NVNT_ANT1_3-DH1_2402_00



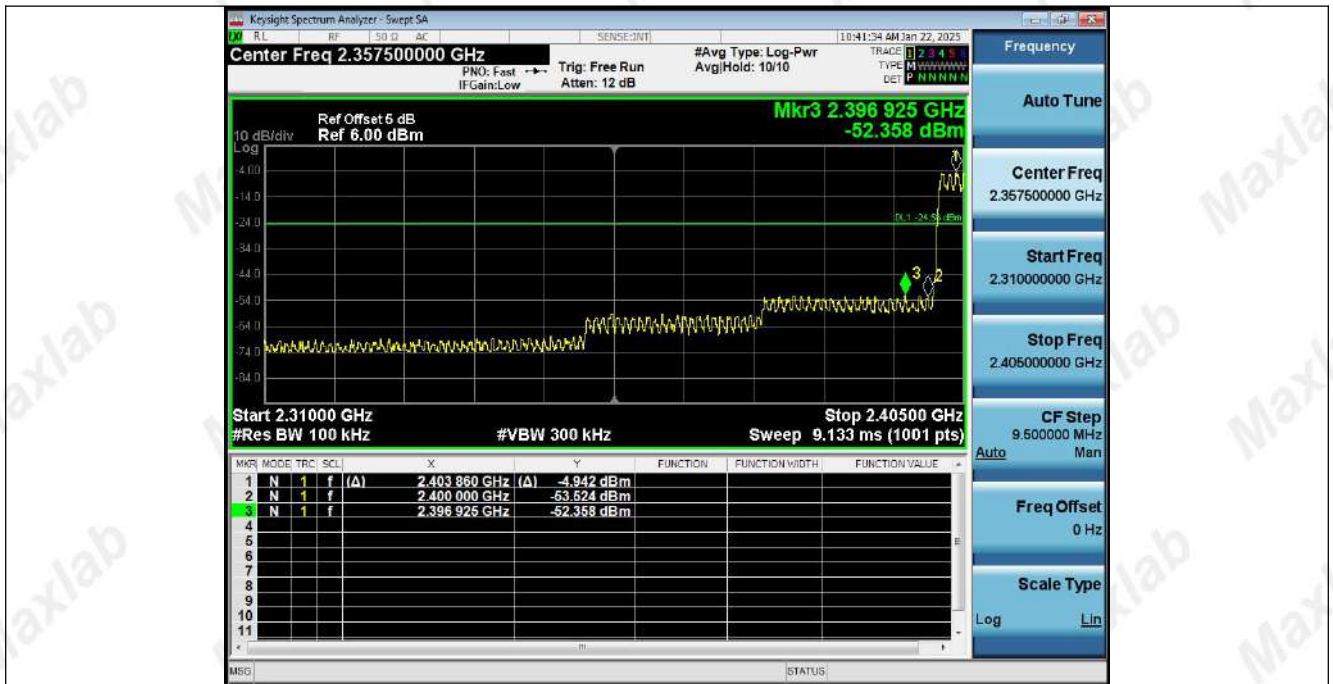
2 Bandedge NVNT_ANT1_3-DH1_2402_00



1 Reference_Level_Hopping_NVNT_ANT1_3-DH1_Hopping



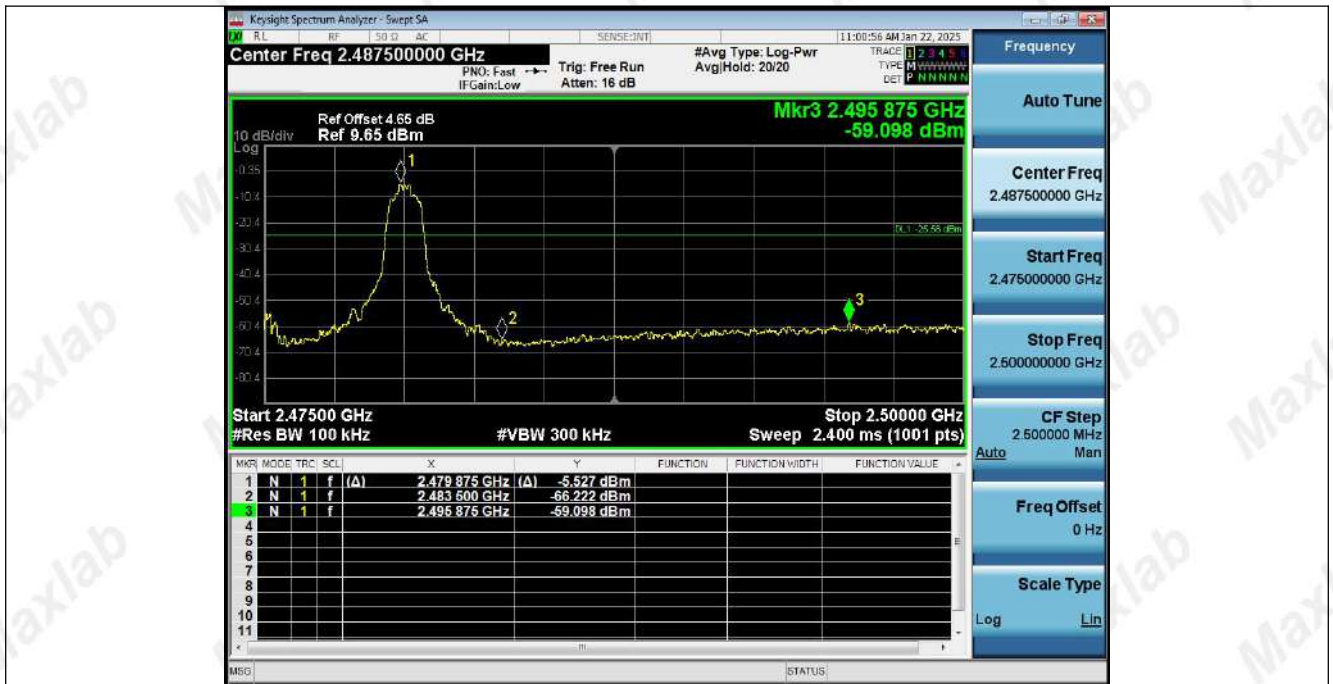
2 Band_Edge_(Hopping)_NVNT_ANT1_3-DH1_Hopping



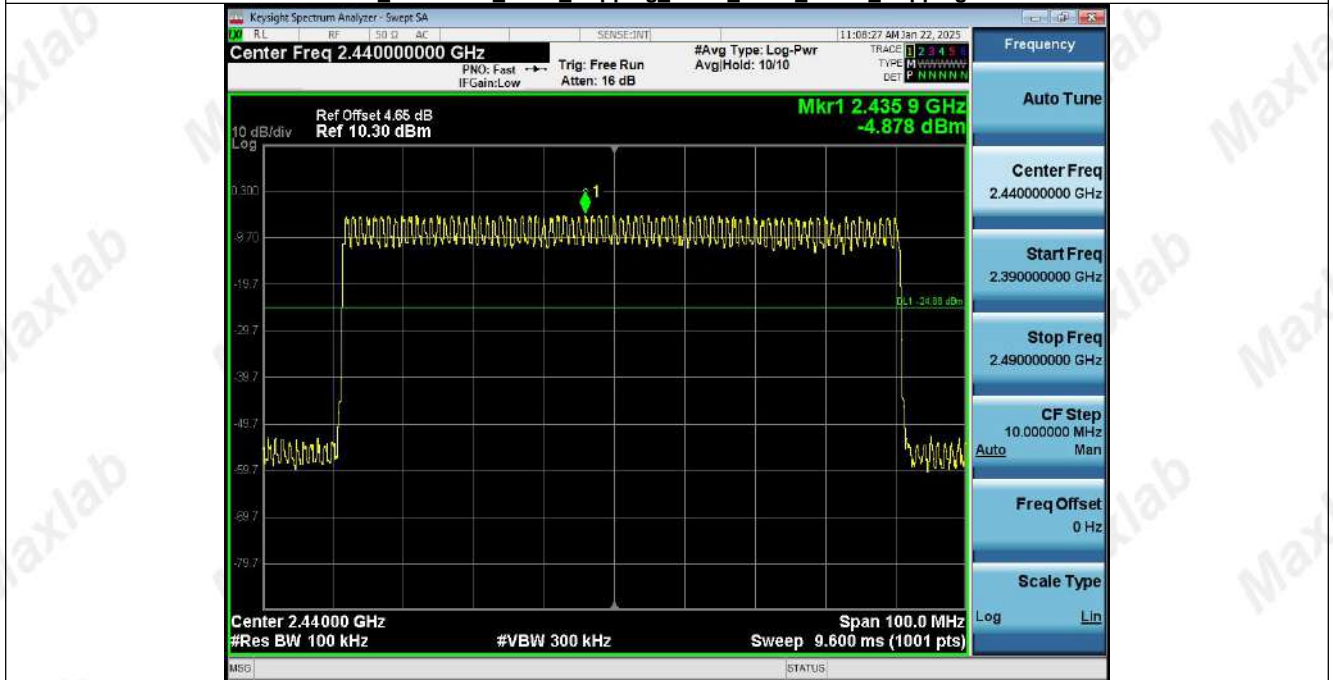
1 Reference Level NVNT_ANT1_3-DH1_2480_00



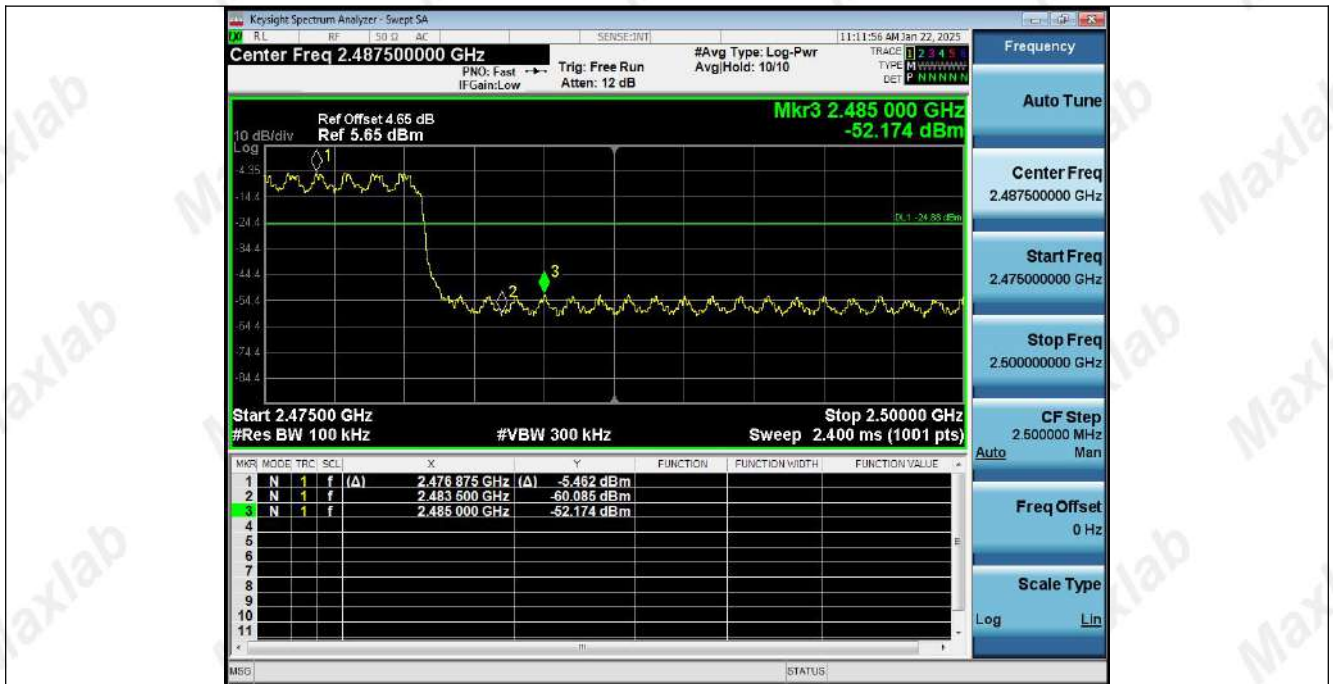
2 Bandedge NVNT_ANT1_3-DH1_2480_00



1 Reference_Level_Hopping_NVNT_ANT1_3-DH1_Hopping



2 Band_Edge_(Hopping)_NVNT_ANT1_3-DH1_Hopping



7. Carrier Frequencies Separation (Hopping)

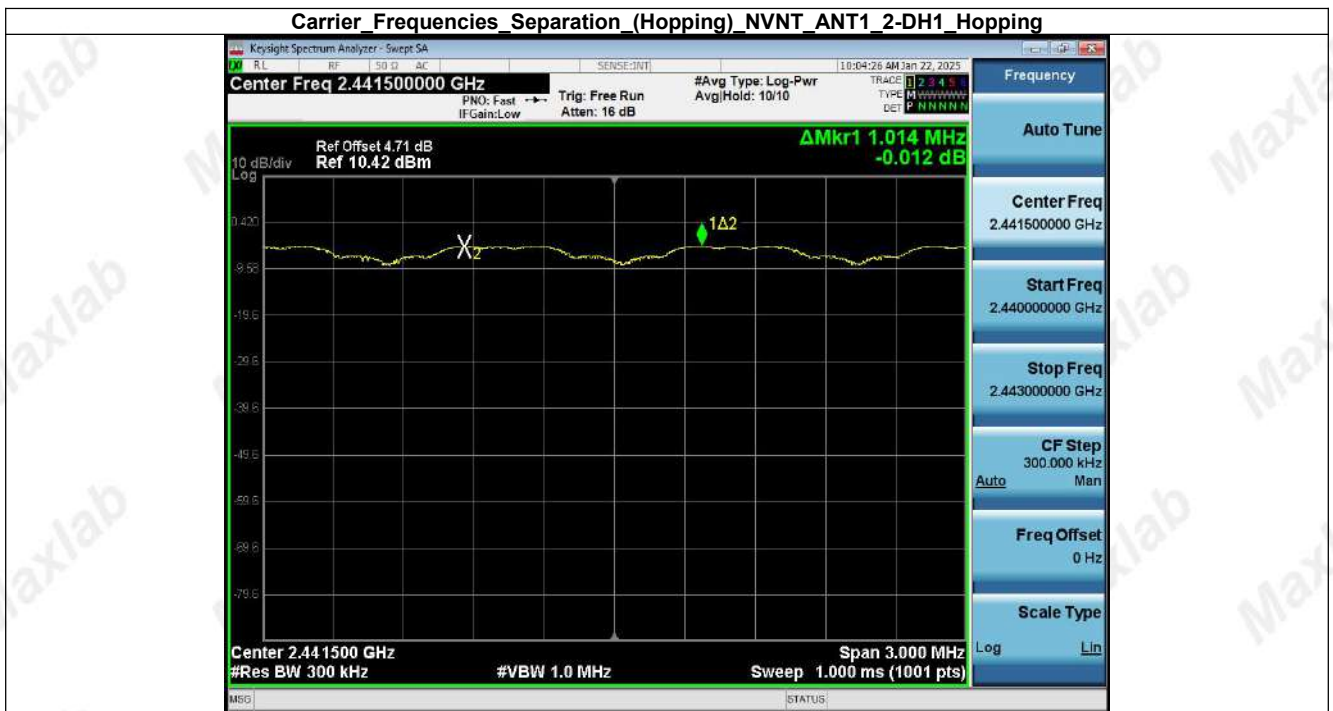
Condition	Antenna	Modulation	Frequency(MHz)	Hopping NO.0 (MHz)	Hopping NO.1 (MHz)	Carrier Frequencies Separation(MHz)	Limit(MHz)	Result
NVNT	ANT1	1-DH1	2402.00	2402.179	2403.178	1.00	0.874	Pass
NVNT	ANT1	1-DH1	2441.00	2440.861	2441.881	1.02	0.874	Pass
NVNT	ANT1	1-DH1	2480.00	2478.858	2479.860	1.00	0.876	Pass
NVNT	ANT1	2-DH1	2402.00	2401.861	2403.169	1.31	0.850	Pass
NVNT	ANT1	2-DH1	2441.00	2440.858	2441.872	1.01	0.852	Pass
NVNT	ANT1	2-DH1	2480.00	2478.861	2479.860	1.00	0.849	Pass
NVNT	ANT1	3-DH1	2402.00	2401.864	2402.863	1.00	0.817	Pass
NVNT	ANT1	3-DH1	2441.00	2440.855	2441.869	1.01	0.833	Pass
NVNT	ANT1	3-DH1	2480.00	2478.864	2479.869	1.00	0.829	Pass



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

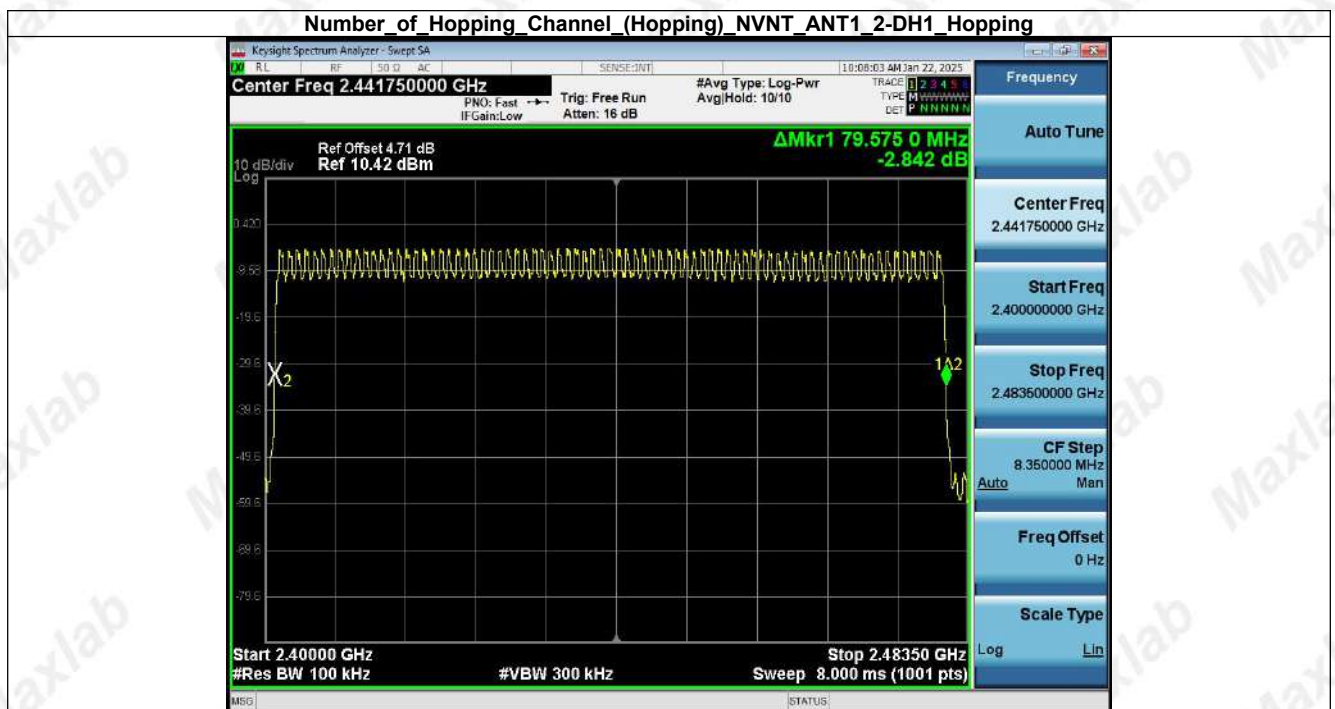
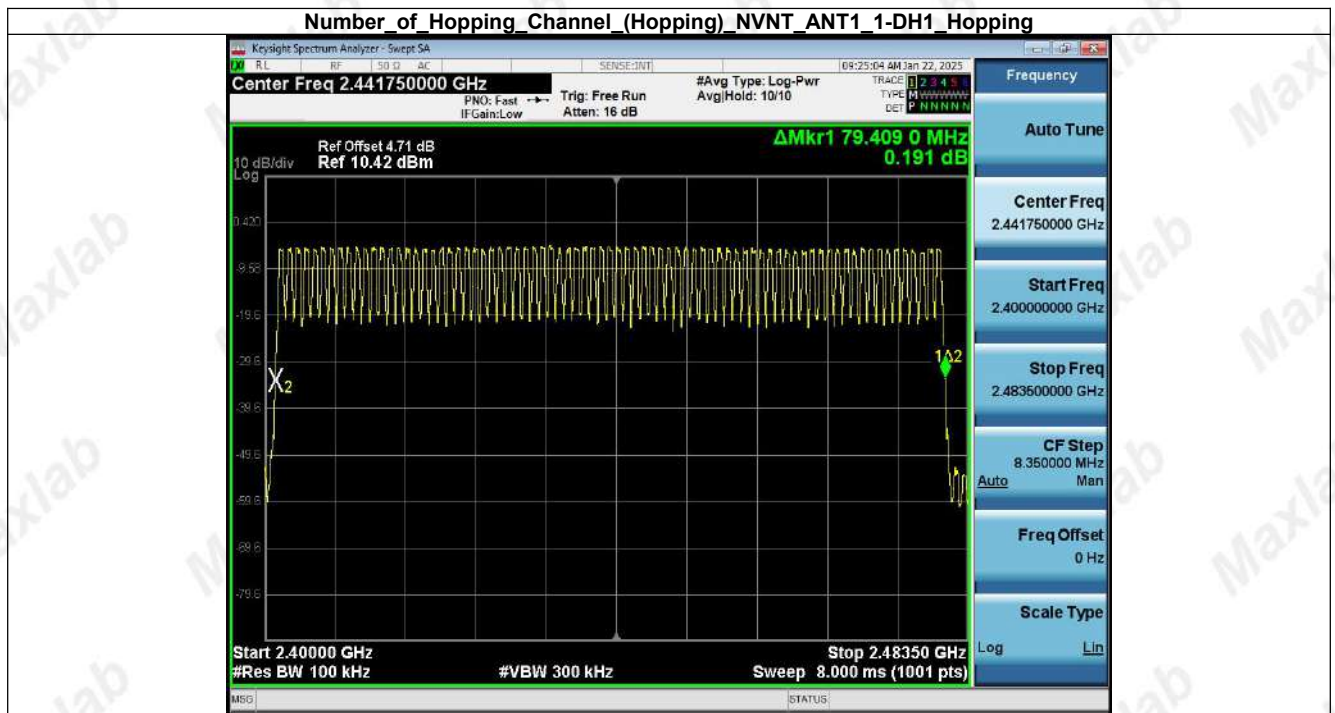


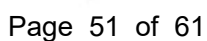
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH1_Hopping



8. Number of Hopping Channel (Hopping)

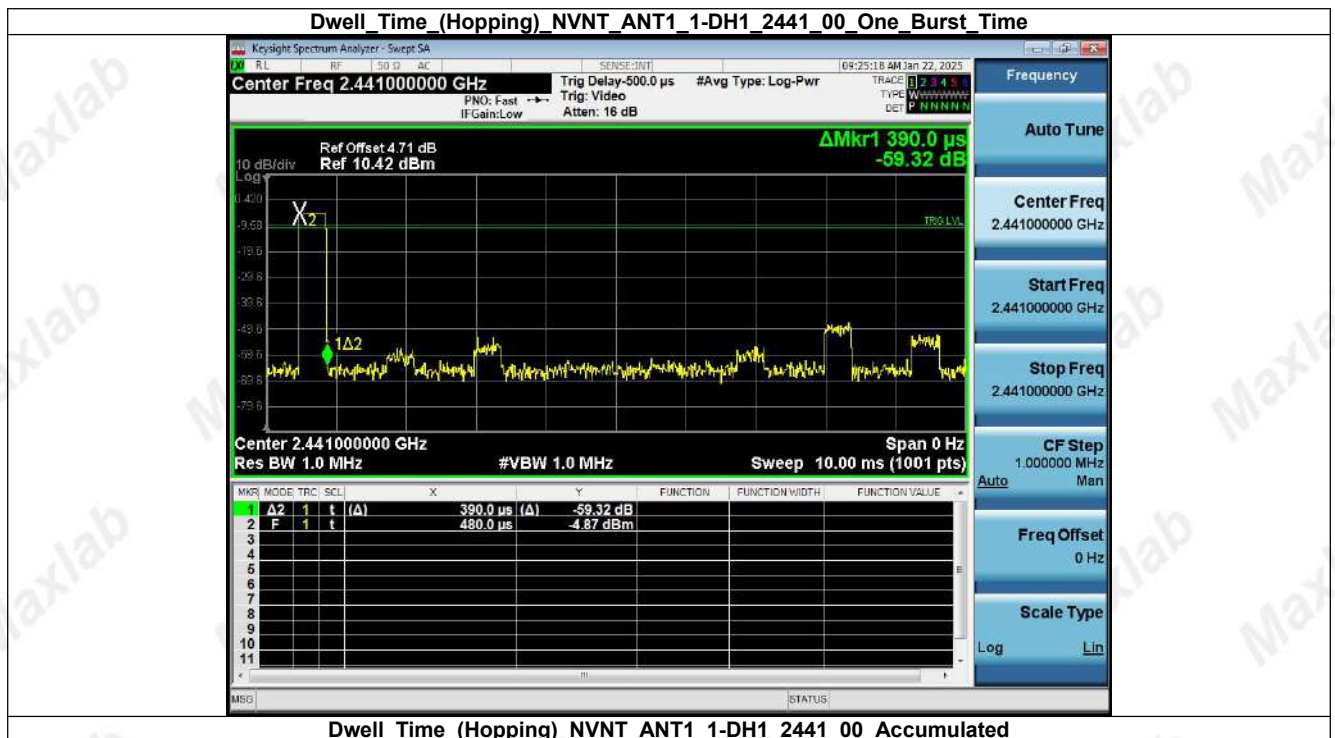
Condition	Antenna	Modulation	Hopping Num	Limit	Result
NVNT	ANT1	1-DH1	79	15	Pass
NVNT	ANT1	2-DH1	79	15	Pass
NVNT	ANT1	3-DH1	79	15	Pass

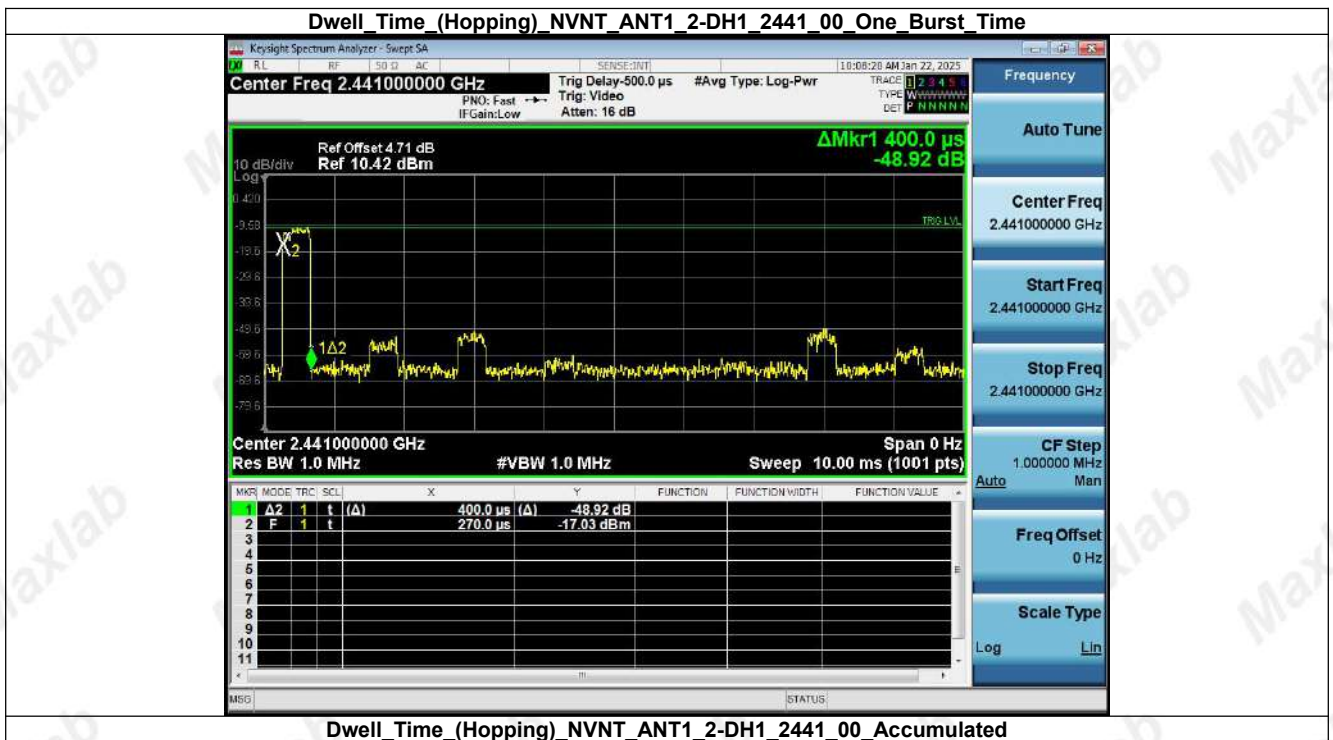
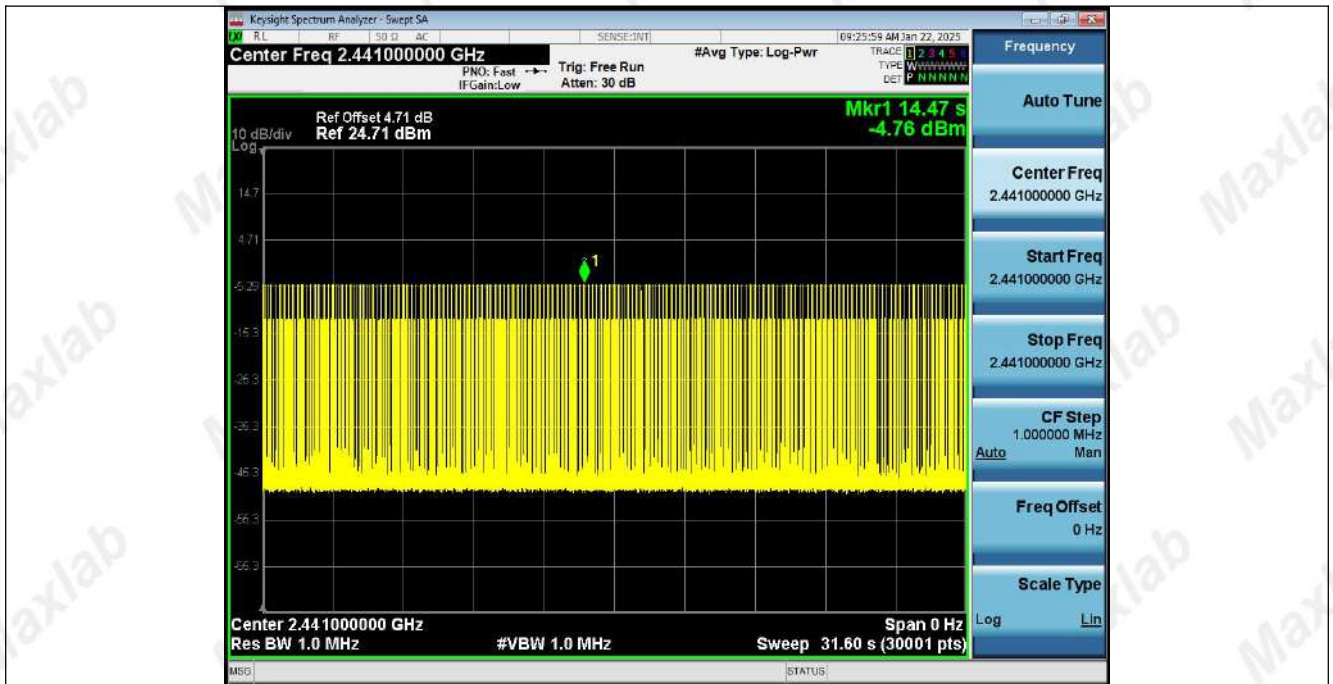


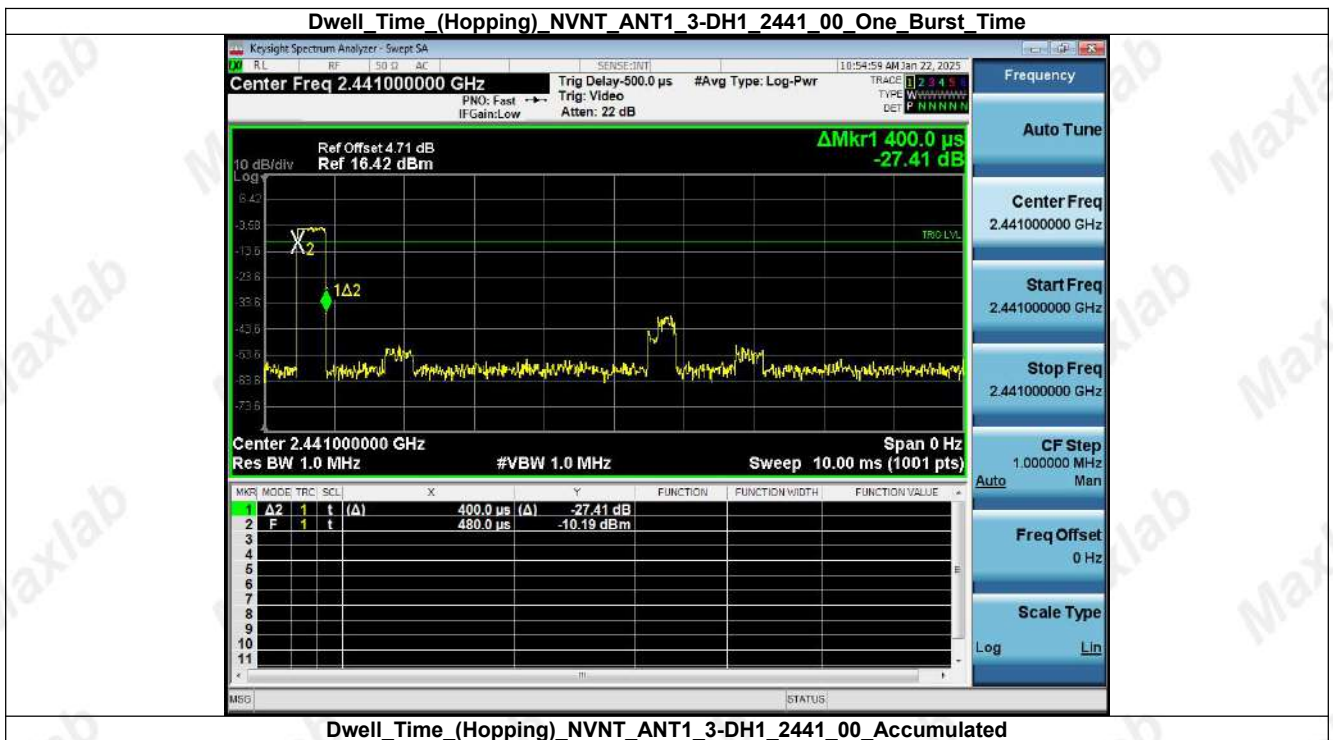
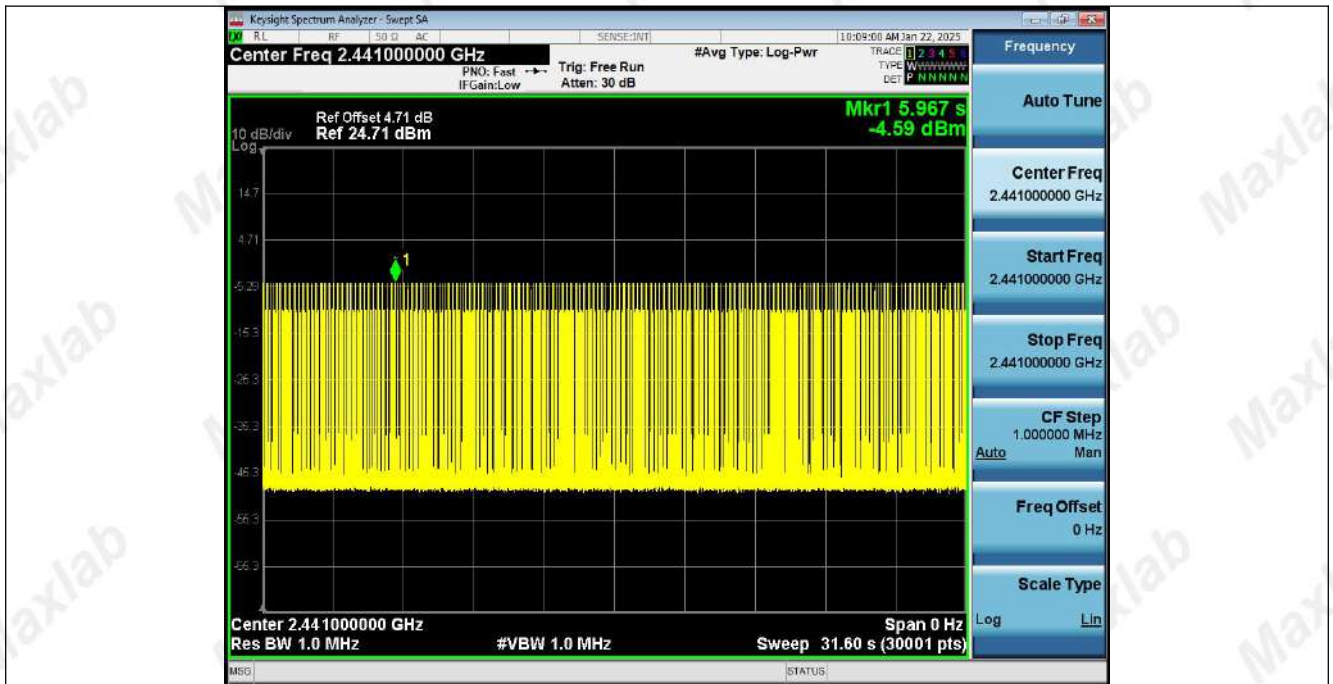


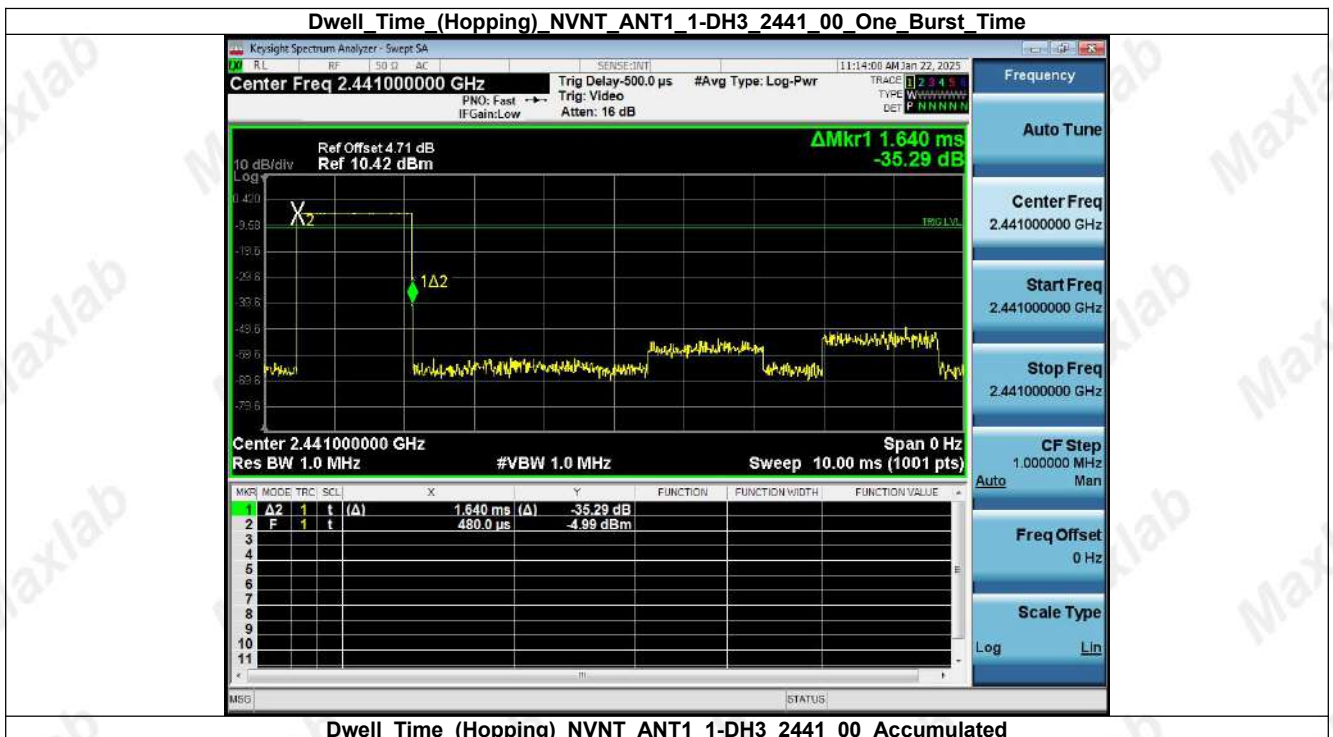
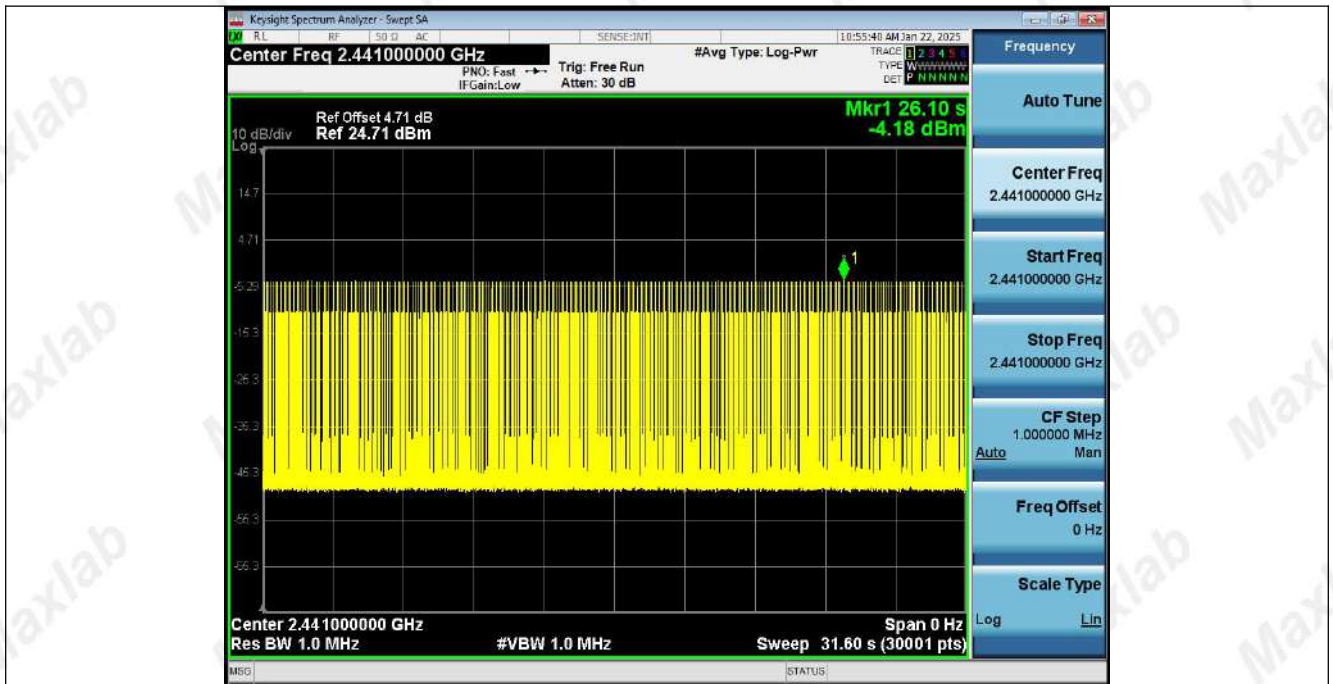
9. Dwell Time (Hopping)

Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH1	0.390	318.00	124.020	0.40	Pass
NVNT	ANT1	2-DH1	0.400	320.00	128.000	0.40	Pass
NVNT	ANT1	3-DH1	0.400	319.00	127.600	0.40	Pass
NVNT	ANT1	1-DH3	1.640	156.00	255.840	0.40	Pass
NVNT	ANT1	1-DH5	2.890	125.00	361.250	0.40	Pass
NVNT	ANT1	2-DH3	1.650	158.00	260.700	0.40	Pass
NVNT	ANT1	2-DH5	2.900	109.00	316.100	0.40	Pass
NVNT	ANT1	3-DH3	1.650	149.00	245.850	0.40	Pass
NVNT	ANT1	3-DH5	2.890	107.00	309.230	0.40	Pass

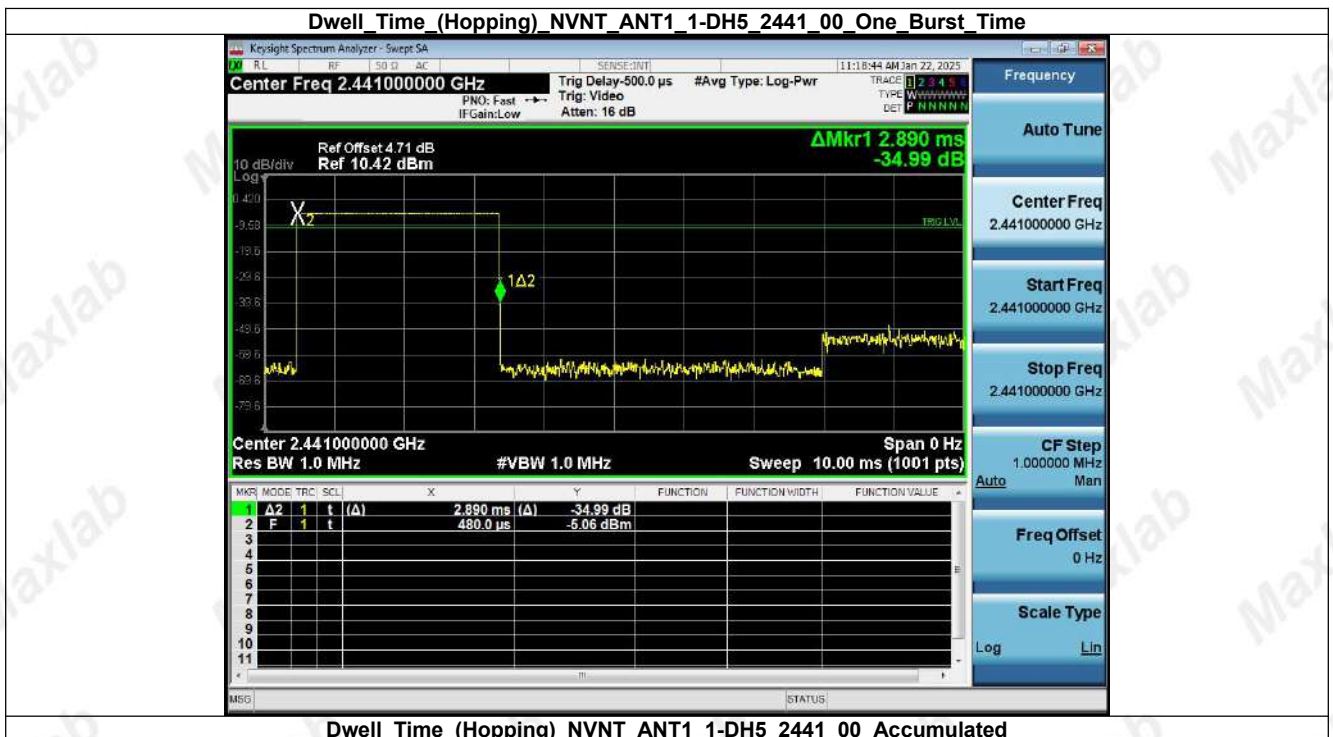
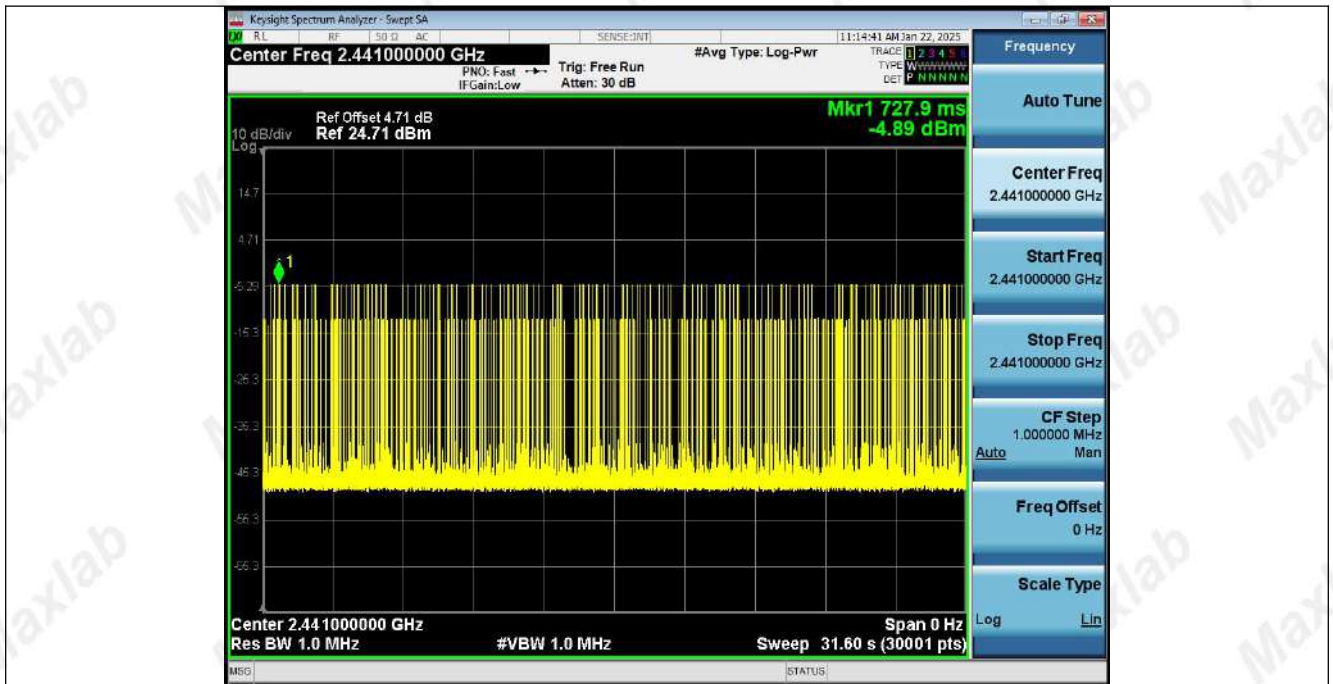








Dwell Time (Hopping) NVNT_ANT1_1-DH3_2441_00_Accumulated



Dwell Time (Hopping) NVNT_ANT1_1-DH5_2441_00 Accumulated

