FCC_BT (Part15.247) Test Data
Report No.:MAX250513110P01-R01
FCC ID:2BPLN-SN800

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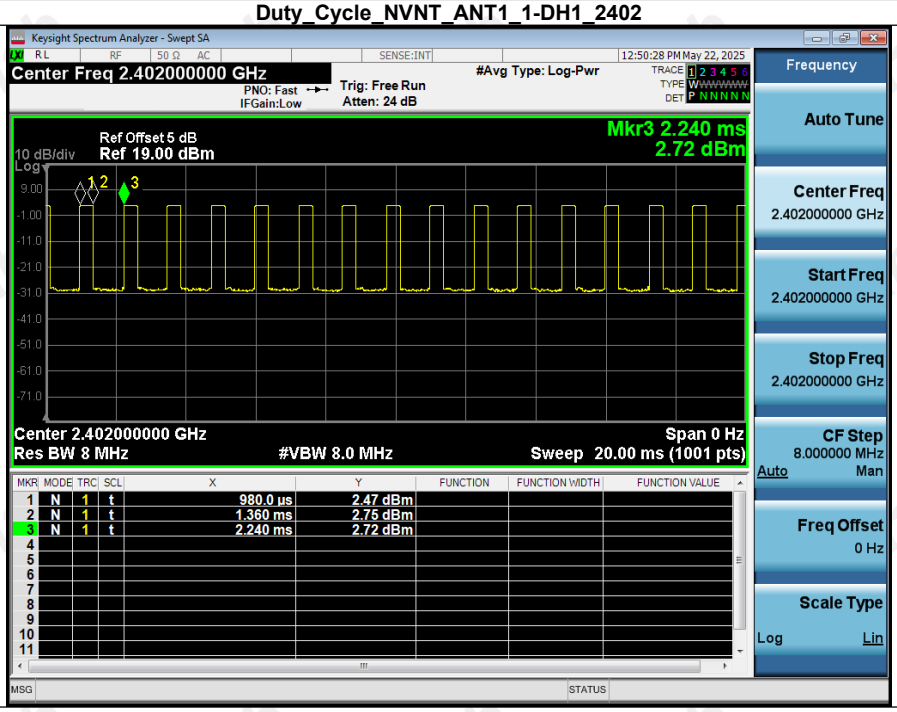
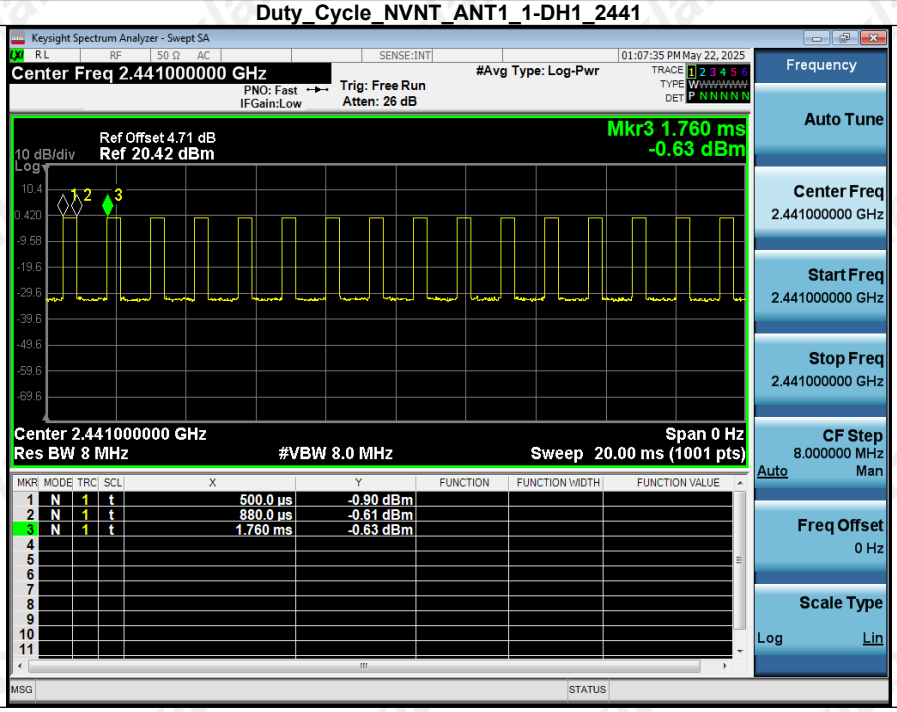
1. Duty Cycle

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

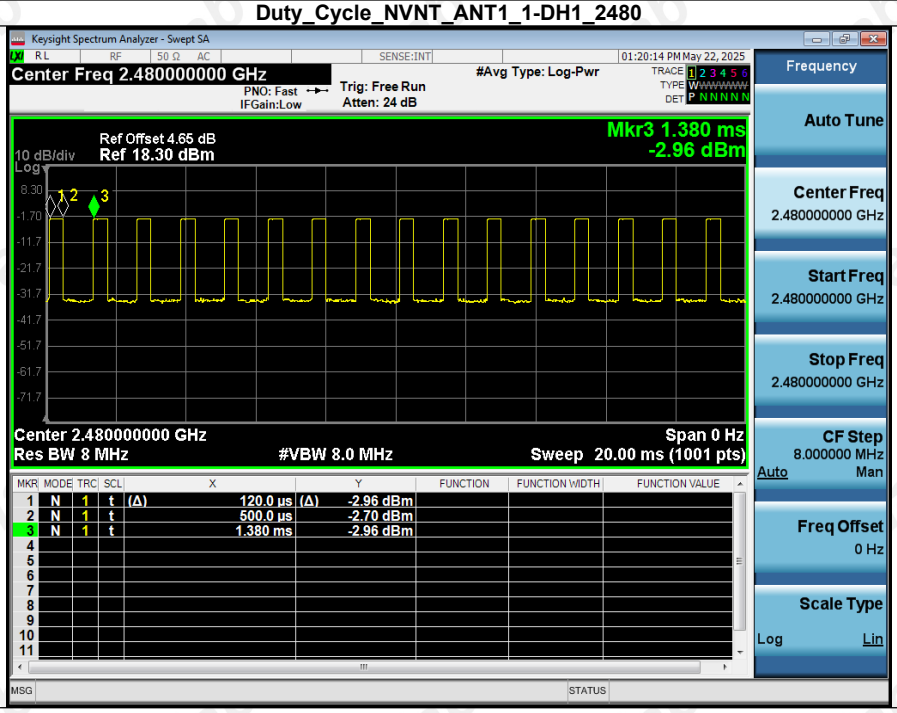
Duty_Cycle_NVNT_ANT1_1-DH1_2402



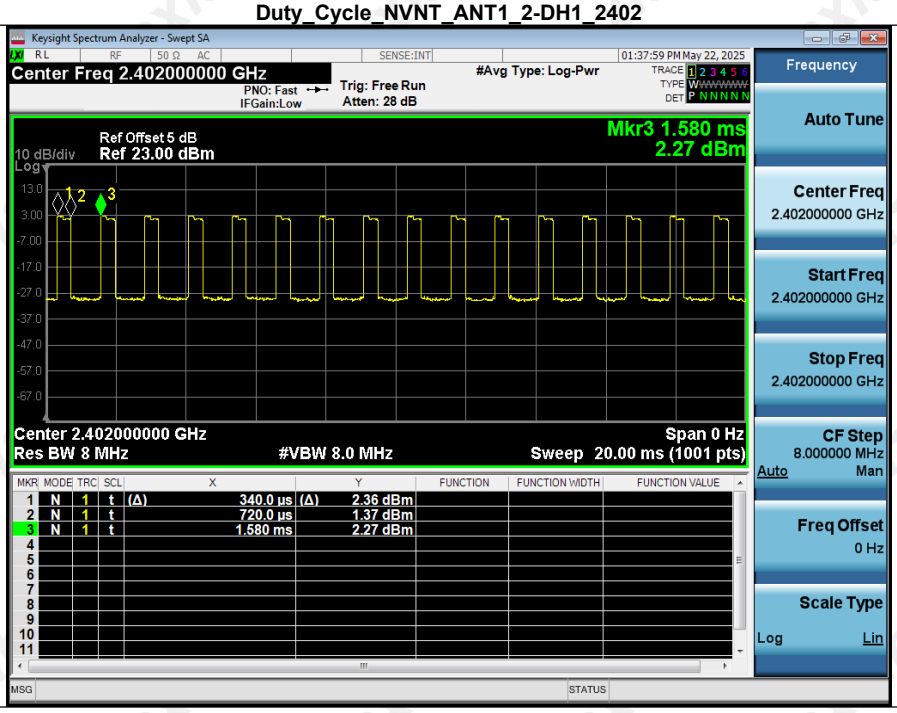
Duty_Cycle_NVNT_ANT1_1-DH1_2441



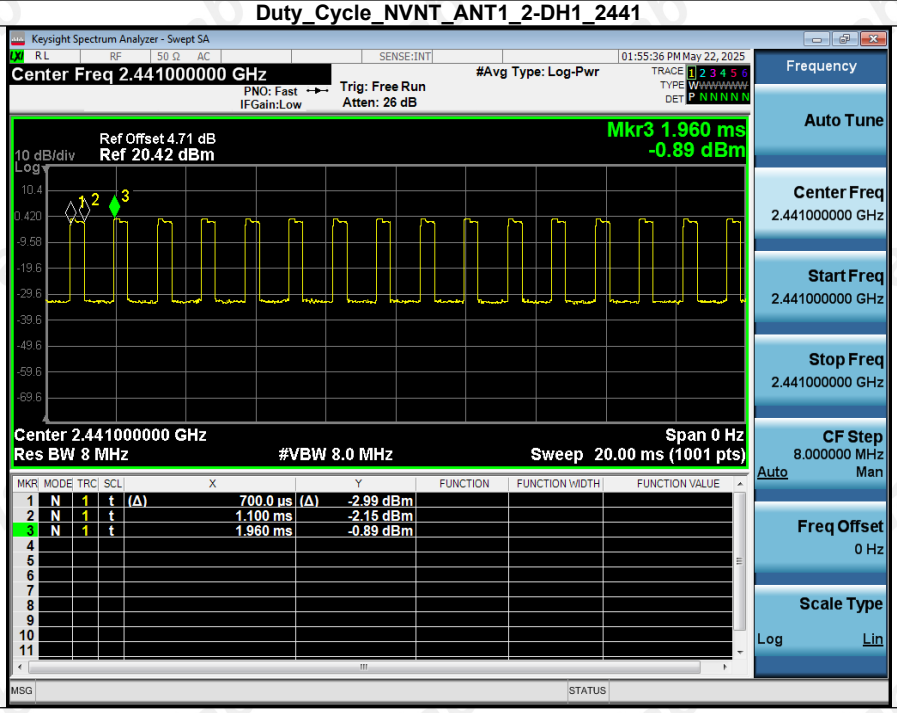
Duty_Cycle_NVNT_ANT1_1-DH1_2480



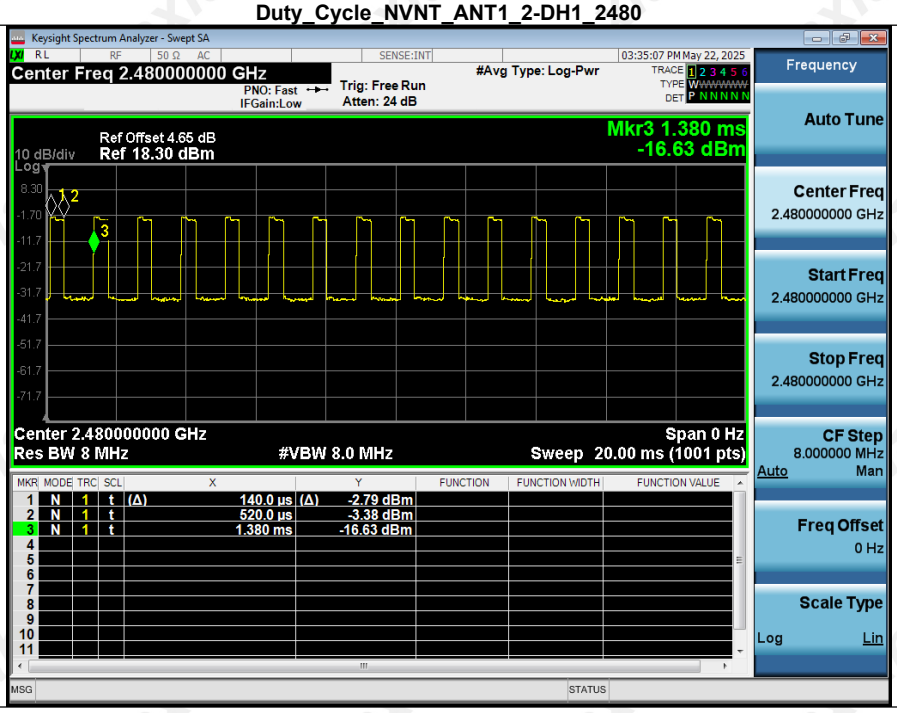
Duty_Cycle_NVNT_ANT1_2-DH1_2402



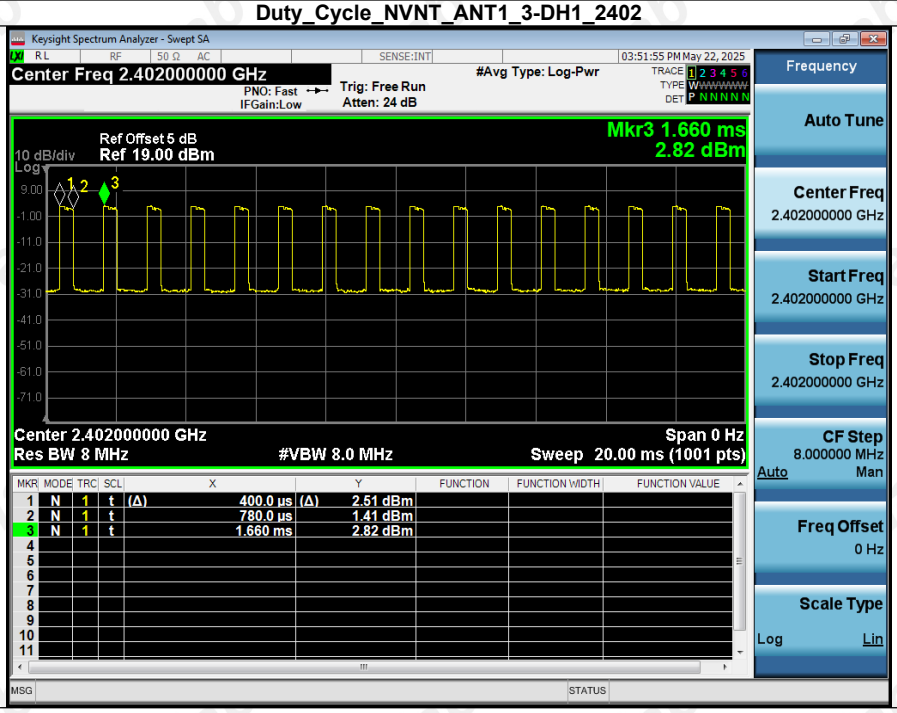
Duty_Cycle_NVNT_ANT1_2-DH1_2441



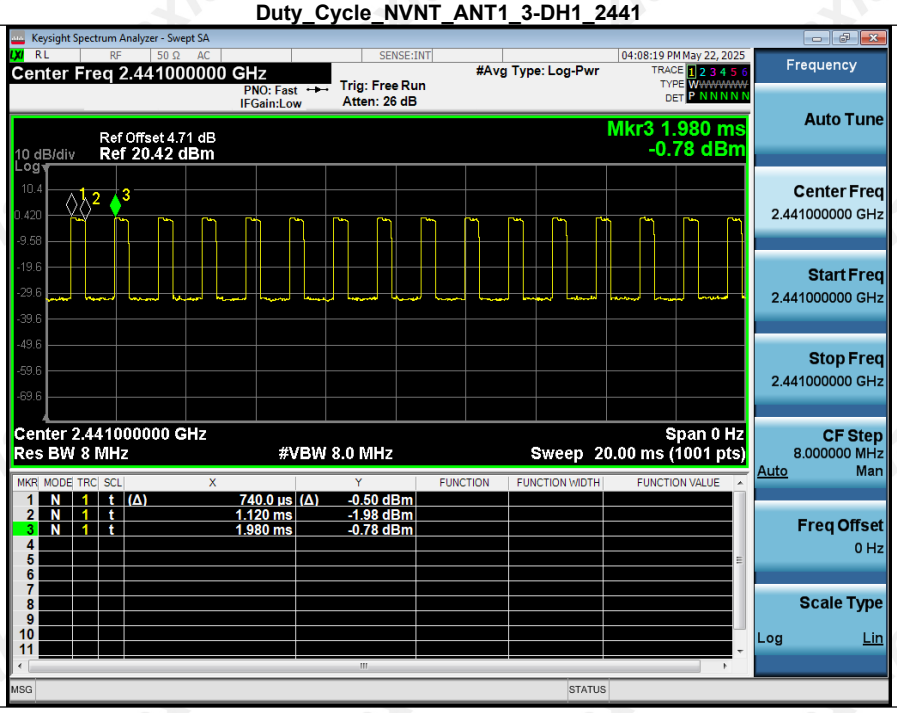
Duty_Cycle_NVNT_ANT1_2-DH1_2480



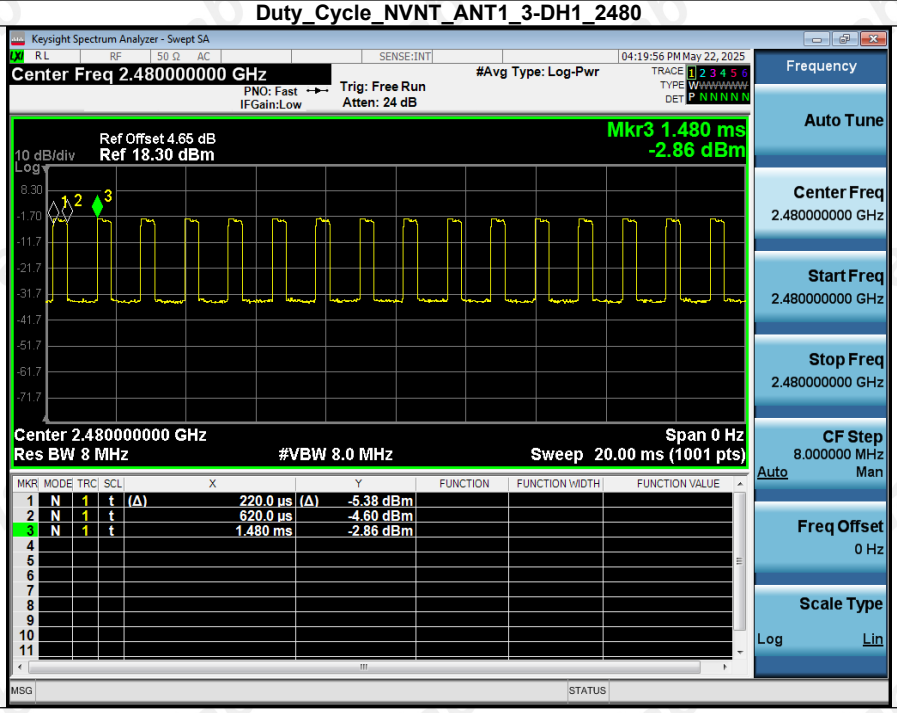
Duty_Cycle_NVNT_ANT1_3-DH1_2402



Duty_Cycle_NVNT_ANT1_3-DH1_2441



Duty_Cycle_NVNT_ANT1_3-DH1_2480

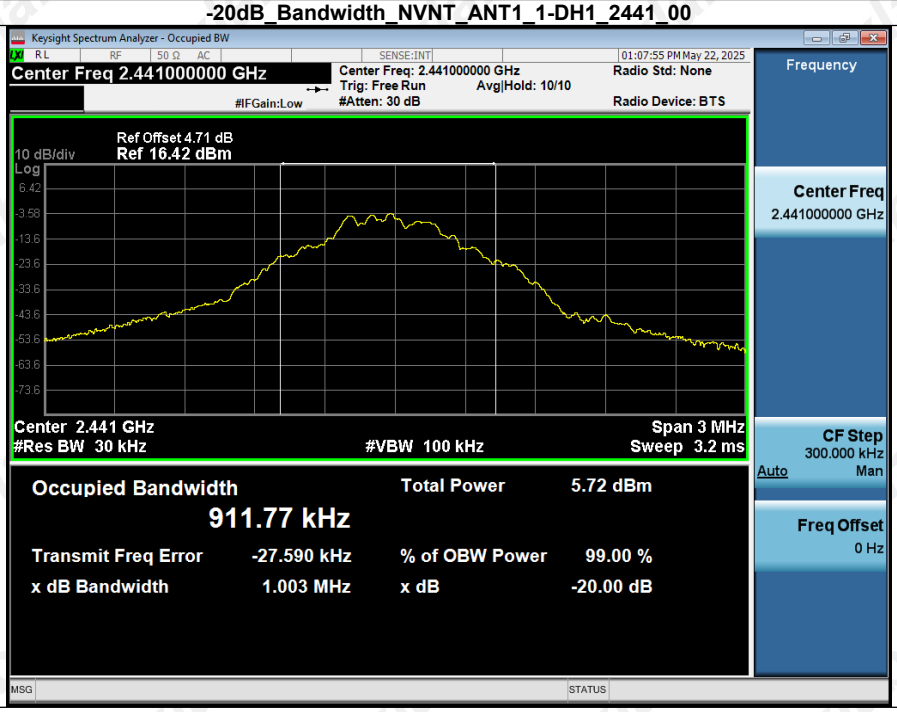


2. -20dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH1	2402.00	1.012	Yes
NVNT	ANT1	1-DH1	2441.00	1.003	Yes
NVNT	ANT1	1-DH1	2480.00	1.000	Yes
NVNT	ANT1	2-DH1	2402.00	1.286	Yes
NVNT	ANT1	2-DH1	2441.00	1.287	Yes
NVNT	ANT1	2-DH1	2480.00	1.288	Yes
NVNT	ANT1	3-DH1	2402.00	1.276	Yes
NVNT	ANT1	3-DH1	2441.00	1.280	Yes
NVNT	ANT1	3-DH1	2480.00	1.272	Yes

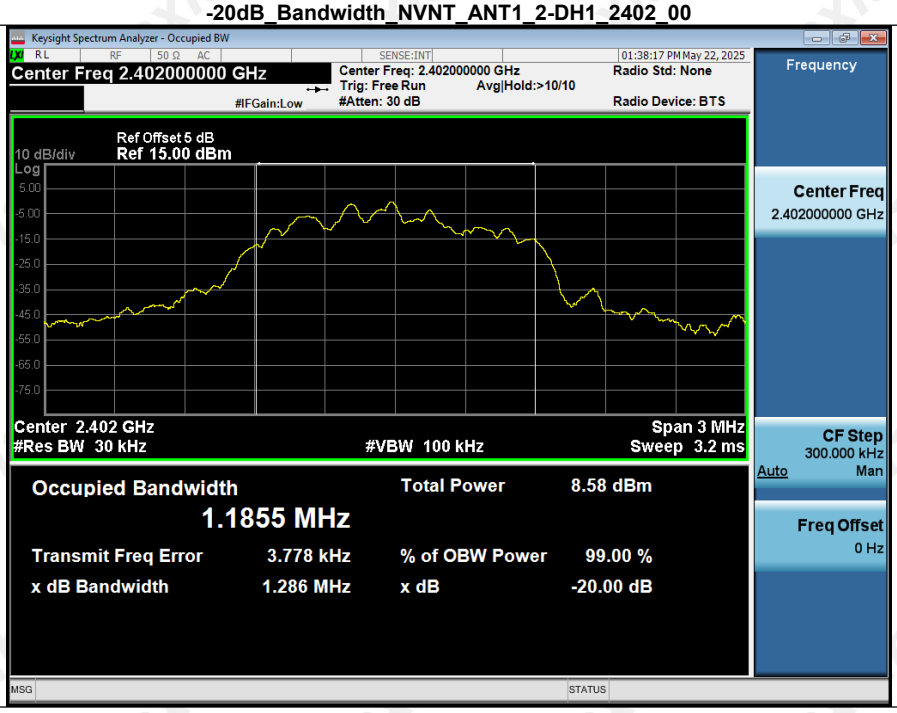
-20dB_Bandwidth_NVNT_ANT1_1-DH1_2402_00

-20dB_Bandwidth_NVNT_ANT1_1-DH1_2441_00



-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

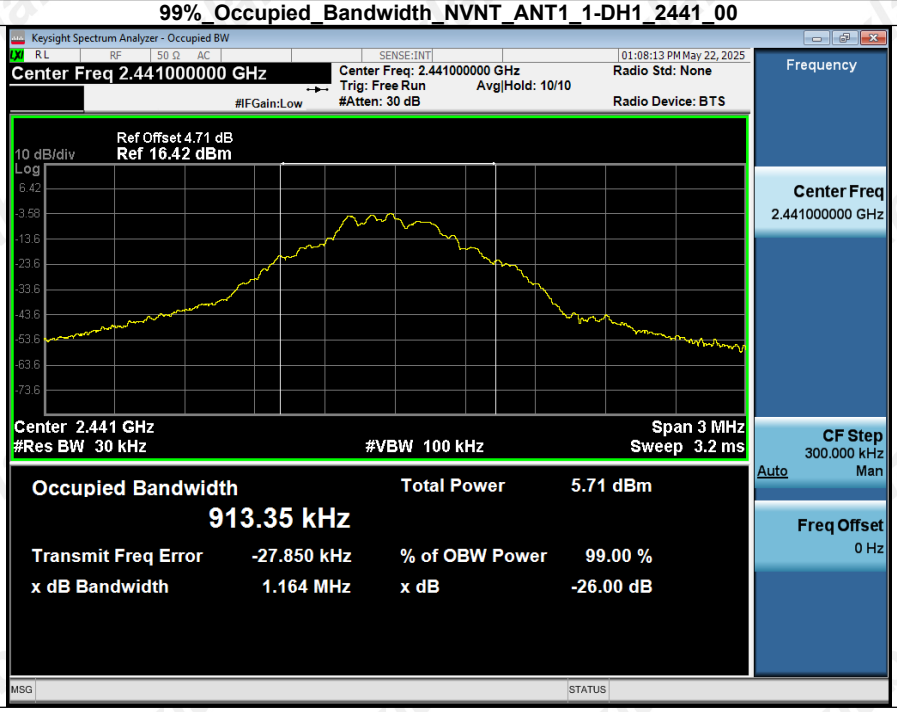
-20dB_Bandwidth_NVNT_ANT1_3-DH1_2480_00

3. 99% Occupied Bandwidth

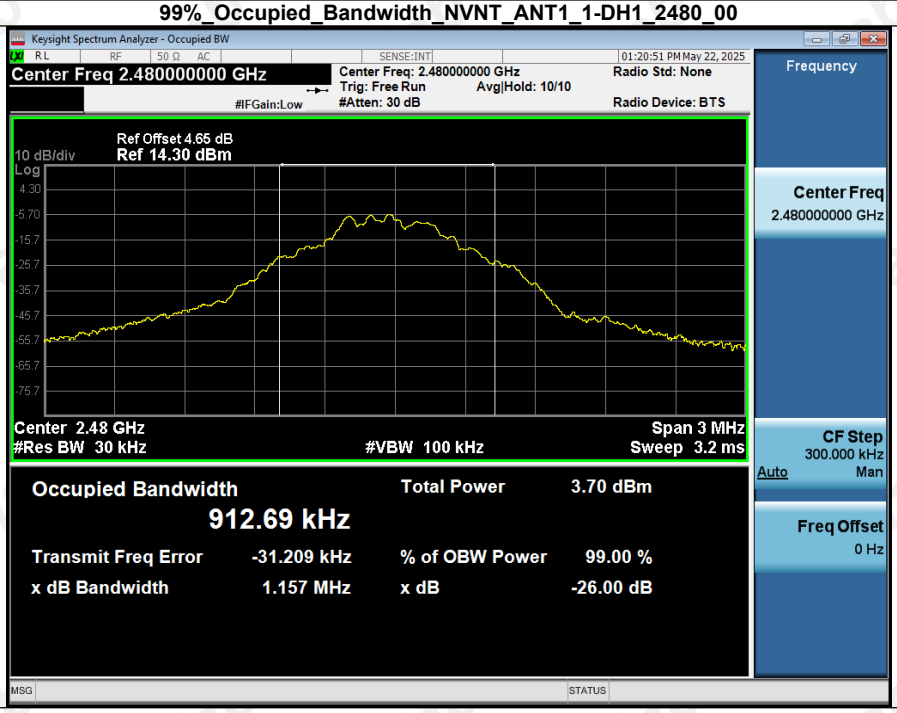
Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	1-DH1	2402.00	0.913
NVNT	ANT1	1-DH1	2441.00	0.913
NVNT	ANT1	1-DH1	2480.00	0.913
NVNT	ANT1	2-DH1	2402.00	1.186
NVNT	ANT1	2-DH1	2441.00	1.187
NVNT	ANT1	2-DH1	2480.00	1.187
NVNT	ANT1	3-DH1	2402.00	1.174
NVNT	ANT1	3-DH1	2441.00	1.176
NVNT	ANT1	3-DH1	2480.00	1.177

99%_Occupied_Bandwidth_NVNT_ANT1_1-DH1_2402_00

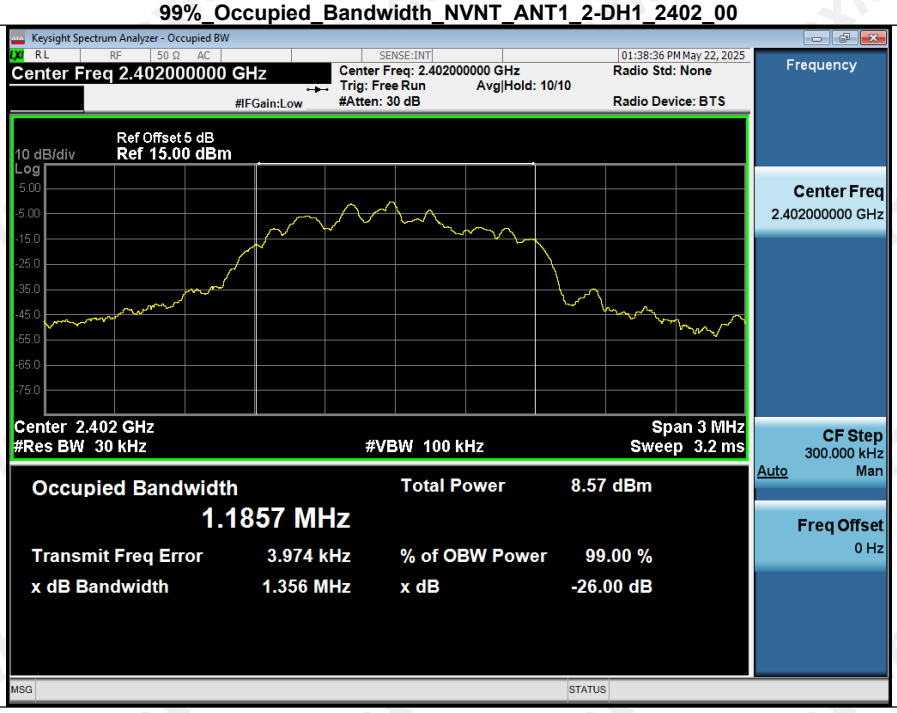
99%_Occupied_Bandwidth_NVNT_ANT1_1-DH1_2441_00



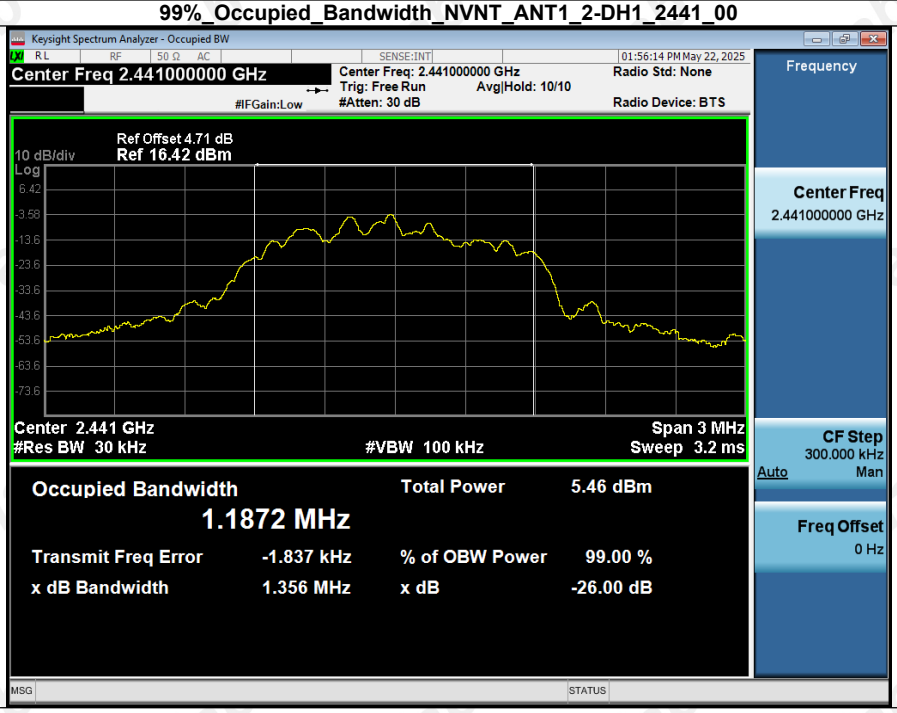
99%_Occupied_Bandwidth_NVNT_ANT1_1-DH1_2480_00



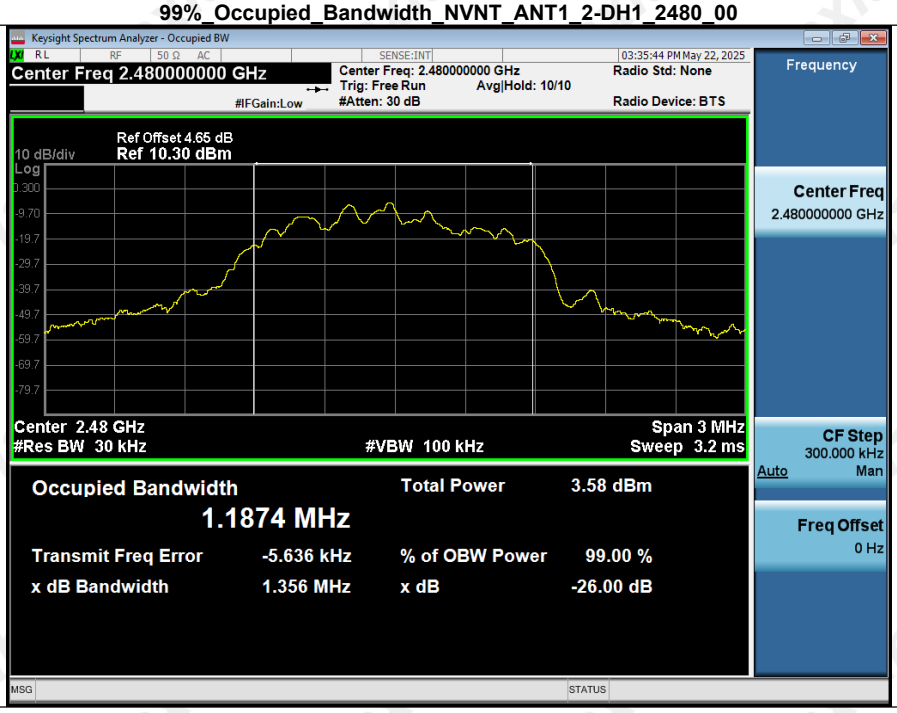
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH1_2402_00



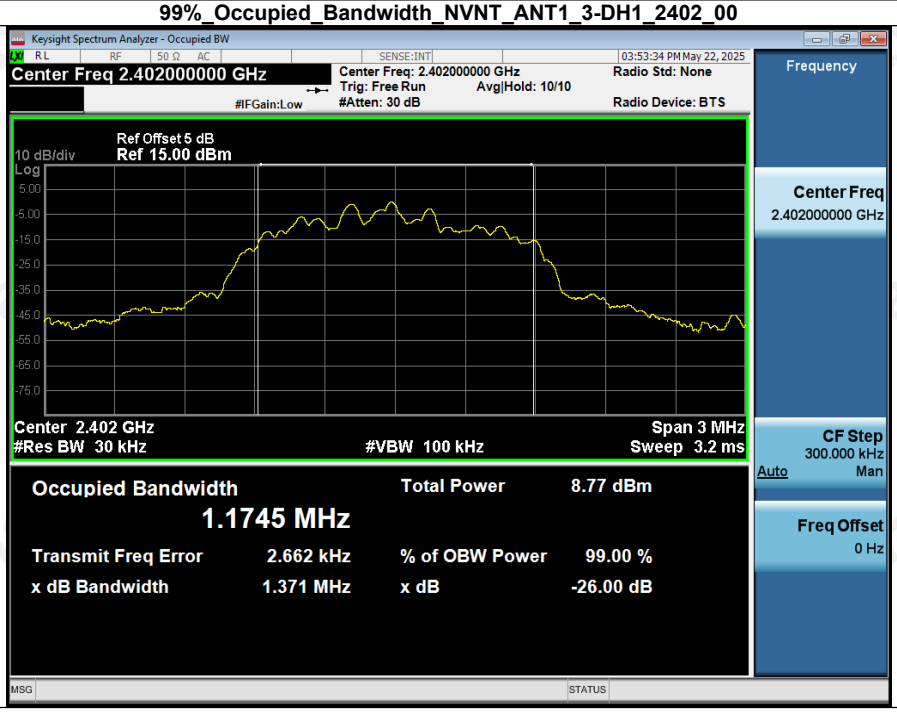
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH1_2441_00



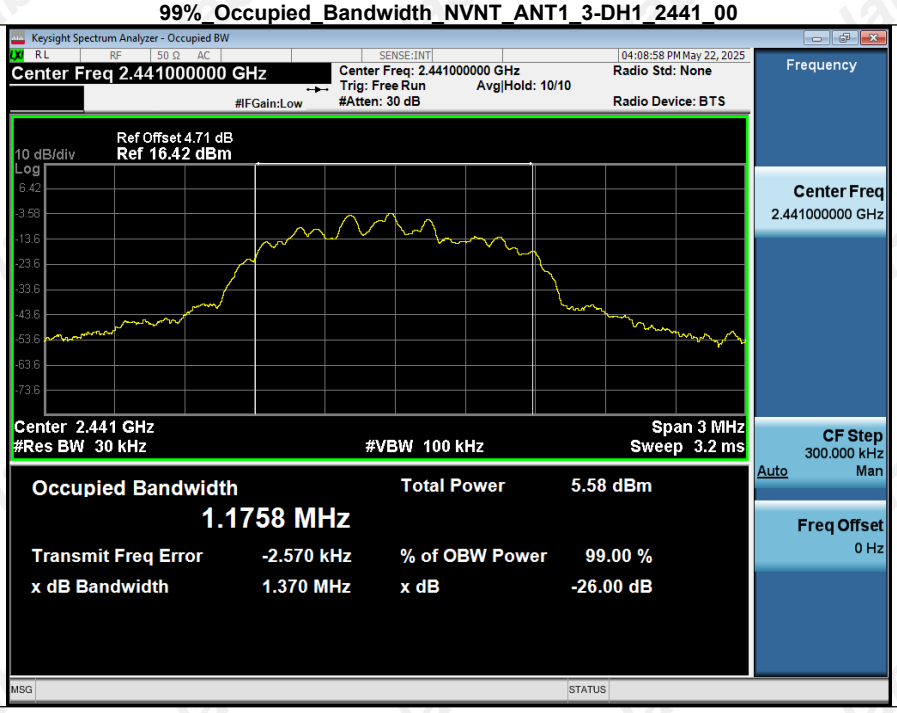
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH1_2480_00



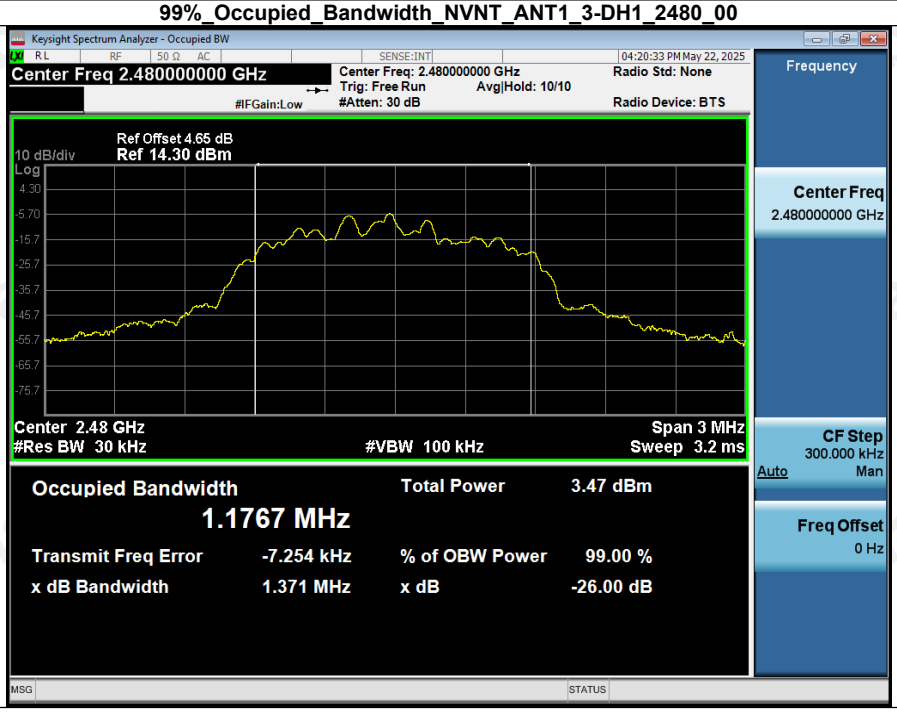
99%_Occupied_Bandwidth_NVNT_ANT1_3-DH1_2402_00



99%_Occupied_Bandwidth_NVNT_ANT1_3-DH1_2441_00



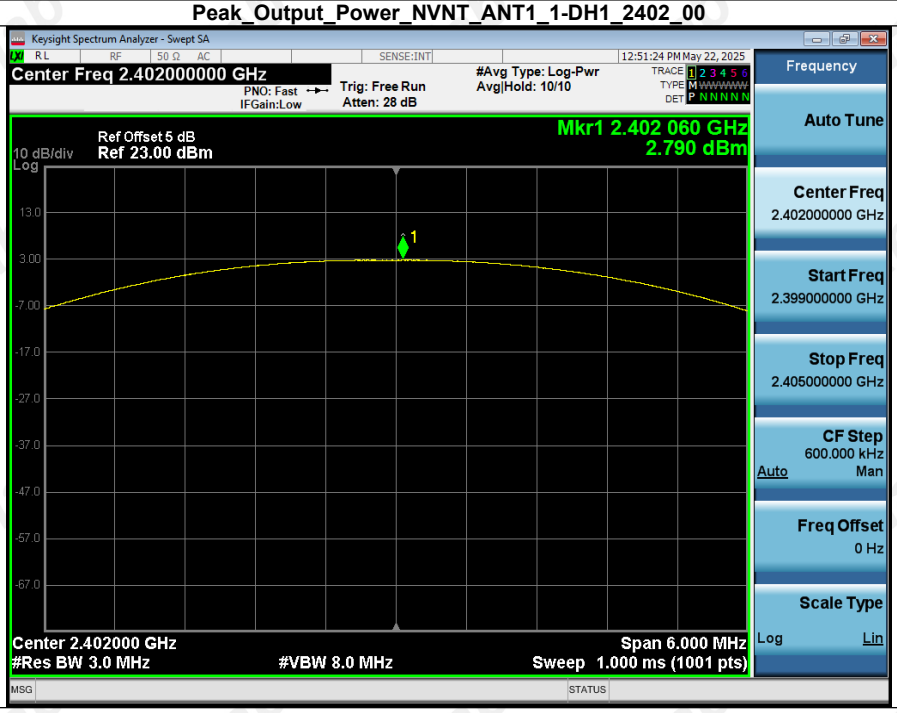
99%_Occupied_Bandwidth_NVNT_ANT1_3-DH1_2480_00



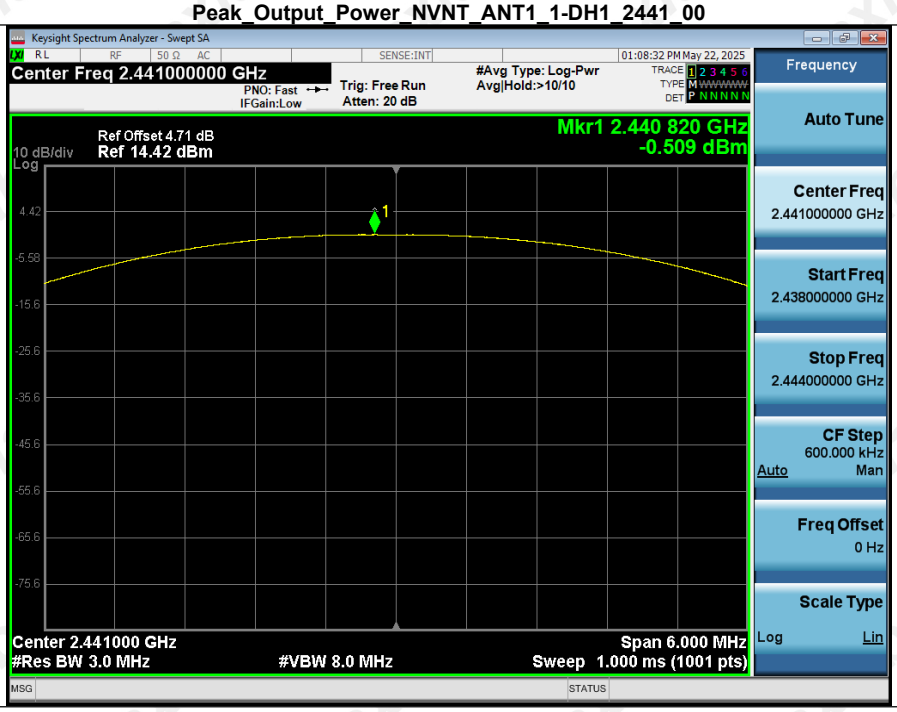
4. Peak Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1-DH1	2402.00	2.79	1.90	125	Pass
NVNT	ANT1	1-DH1	2441.00	-0.51	0.89	125	Pass
NVNT	ANT1	1-DH1	2480.00	-2.60	0.55	125	Pass
NVNT	ANT1	2-DH1	2402.00	2.68	1.85	125	Pass
NVNT	ANT1	2-DH1	2441.00	-0.50	0.89	125	Pass
NVNT	ANT1	2-DH1	2480.00	-2.44	0.57	125	Pass
NVNT	ANT1	3-DH1	2402.00	2.87	1.94	125	Pass
NVNT	ANT1	3-DH1	2441.00	-0.35	0.92	125	Pass
NVNT	ANT1	3-DH1	2480.00	-2.52	0.56	125	Pass

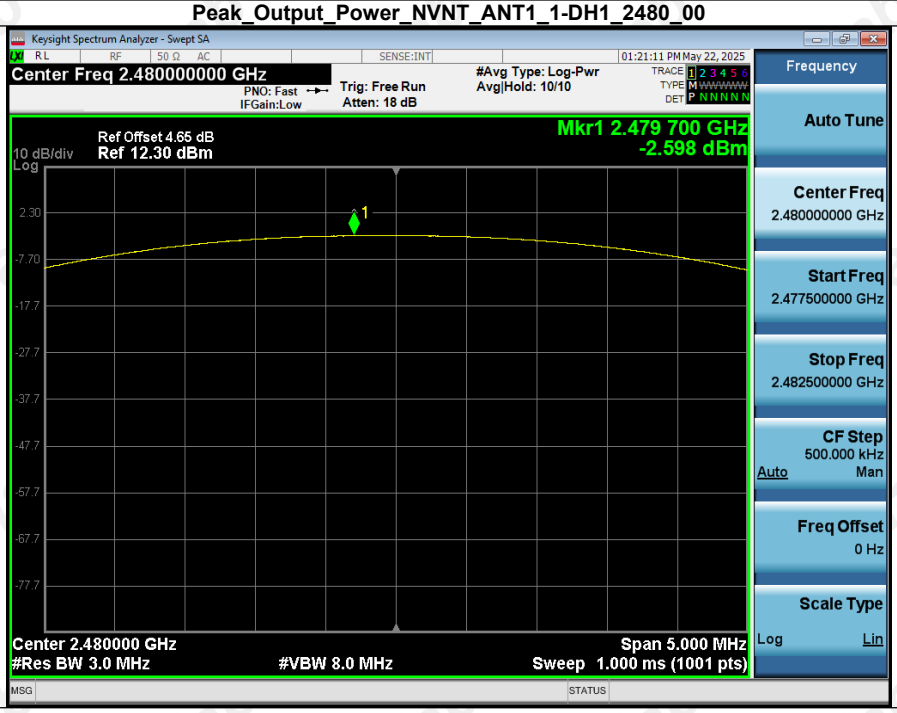
Peak_Output_Power_NVNT_ANT1_1-DH1_2402_00



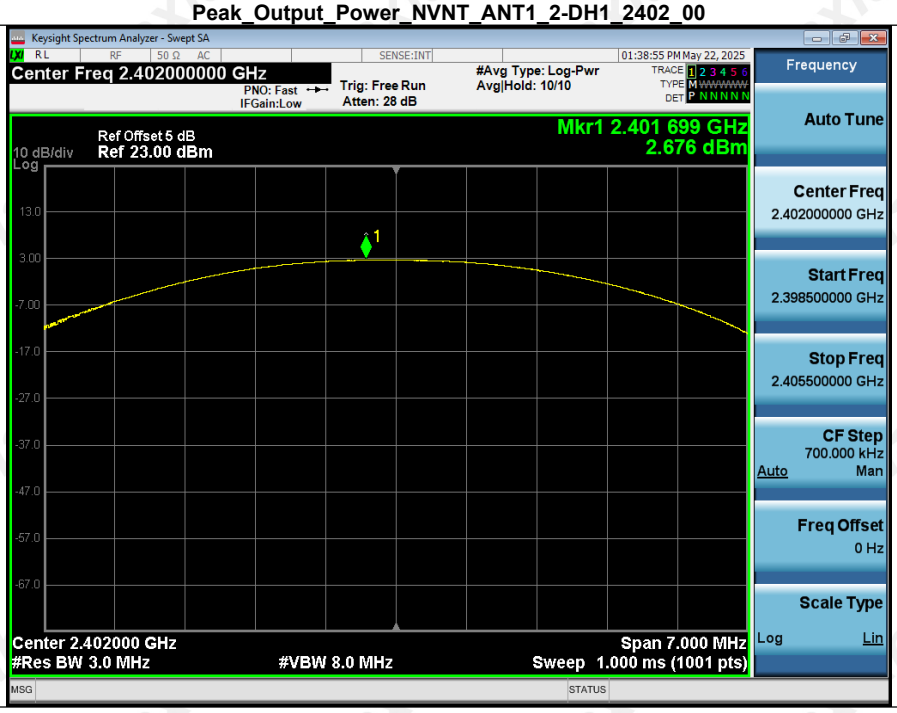
Peak_Output_Power_NVNT_ANT1_1-DH1_2441_00



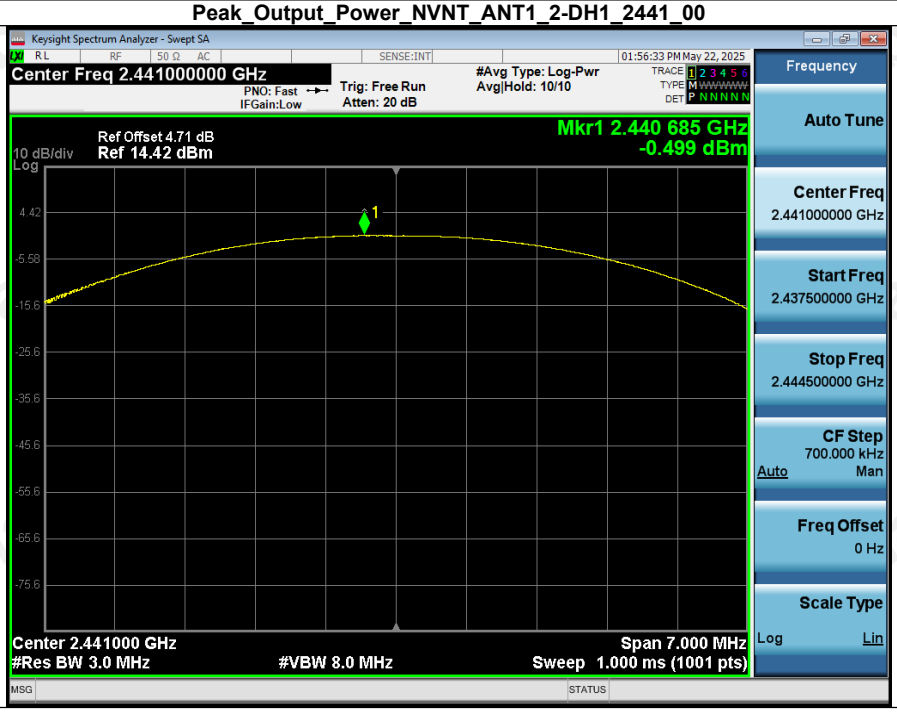
Peak_Output_Power_NVNT_ANT1_1-DH1_2480_00



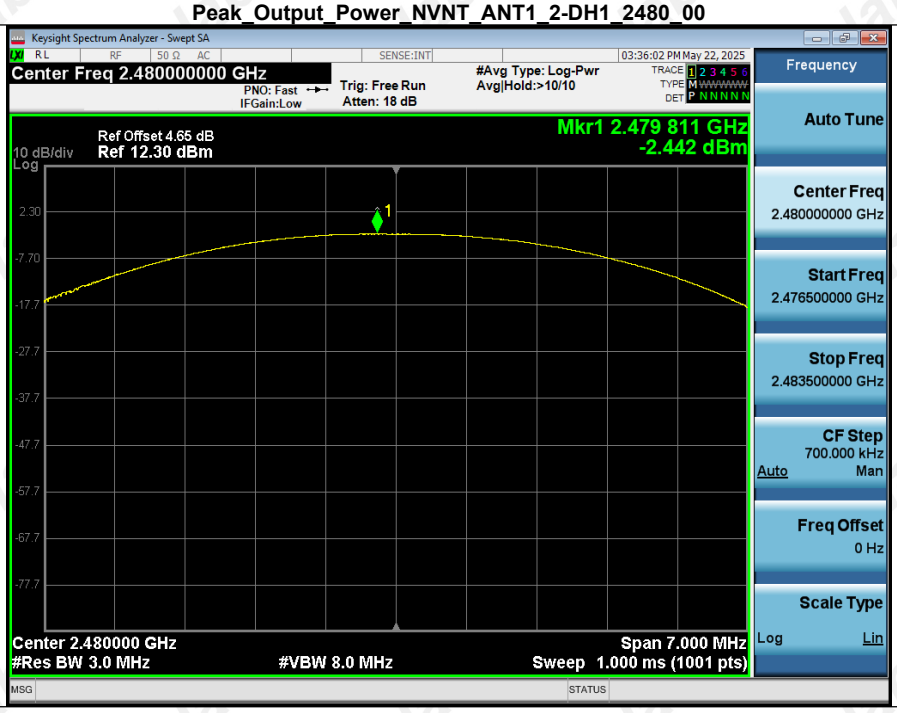
Peak_Output_Power_NVNT_ANT1_2-DH1_2402_00



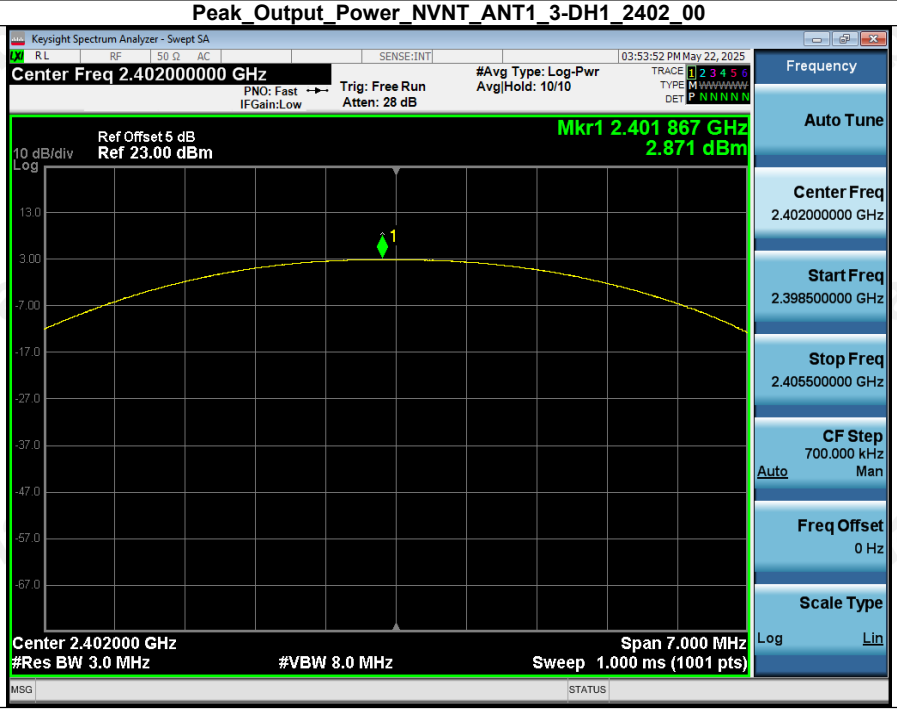
Peak_Output_Power_NVNT_ANT1_2-DH1_2441_00



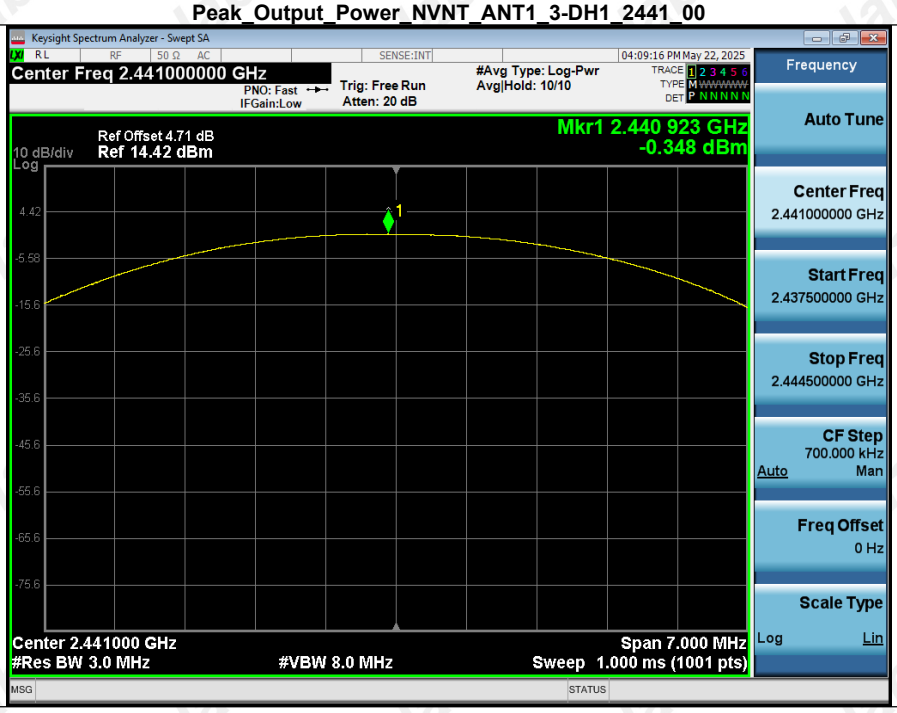
Peak_Output_Power_NVNT_ANT1_2-DH1_2480_00



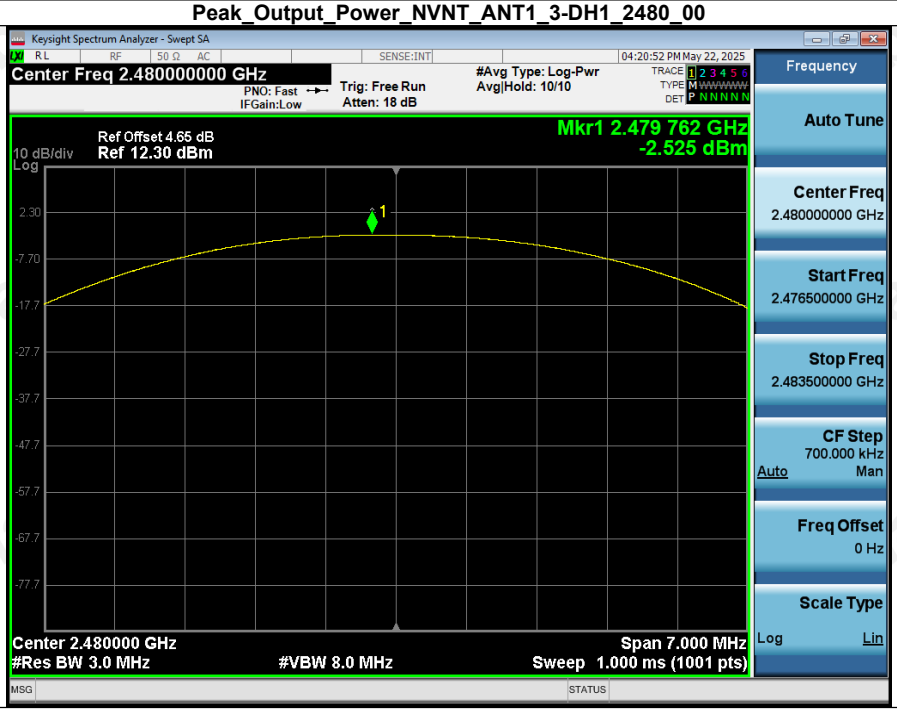
Peak_Output_Power_NVNT_ANT1_3-DH1_2402_00



Peak_Output_Power_NVNT_ANT1_3-DH1_2441_00



Peak_Output_Power_NVNT_ANT1_3-DH1_2480_00

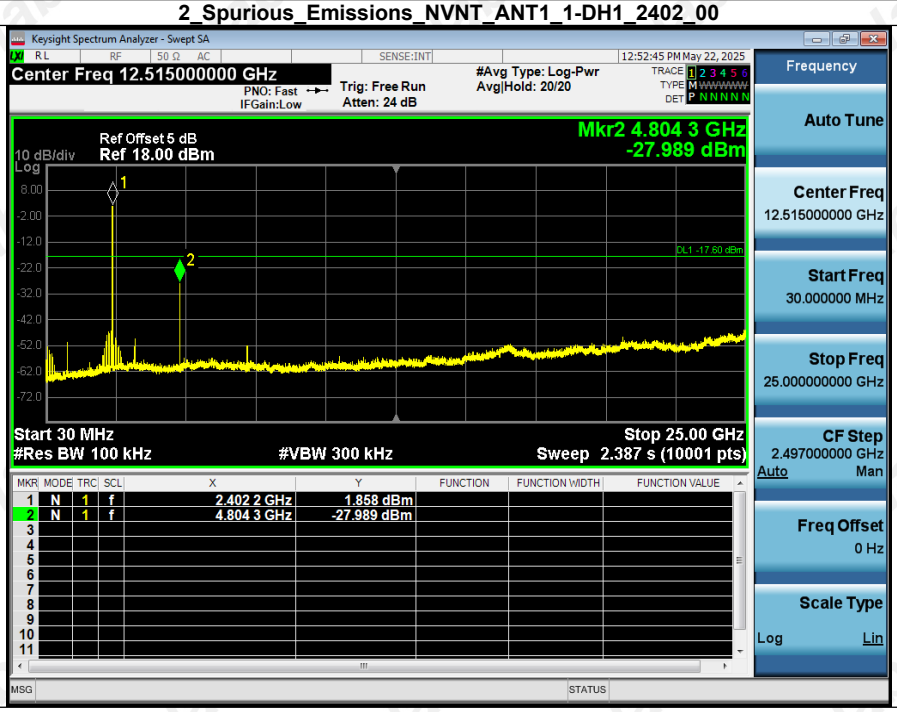


5. Spurious Emissions

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH1	2402.00	2.401	-27.989	-17.599	Pass
NVNT	ANT1	1-DH1	2441.00	-0.858	-33.942	-20.858	Pass
NVNT	ANT1	1-DH1	2480.00	-2.907	-38.958	-22.907	Pass
NVNT	ANT1	2-DH1	2402.00	2.296	-30.523	-17.704	Pass
NVNT	ANT1	2-DH1	2441.00	-0.850	-39.289	-20.850	Pass
NVNT	ANT1	2-DH1	2480.00	-2.734	-47.586	-22.734	Pass
NVNT	ANT1	3-DH1	2402.00	2.512	-33.333	-17.488	Pass
NVNT	ANT1	3-DH1	2441.00	-0.697	-38.909	-20.697	Pass
NVNT	ANT1	3-DH1	2480.00	-2.847	-41.906	-22.847	Pass

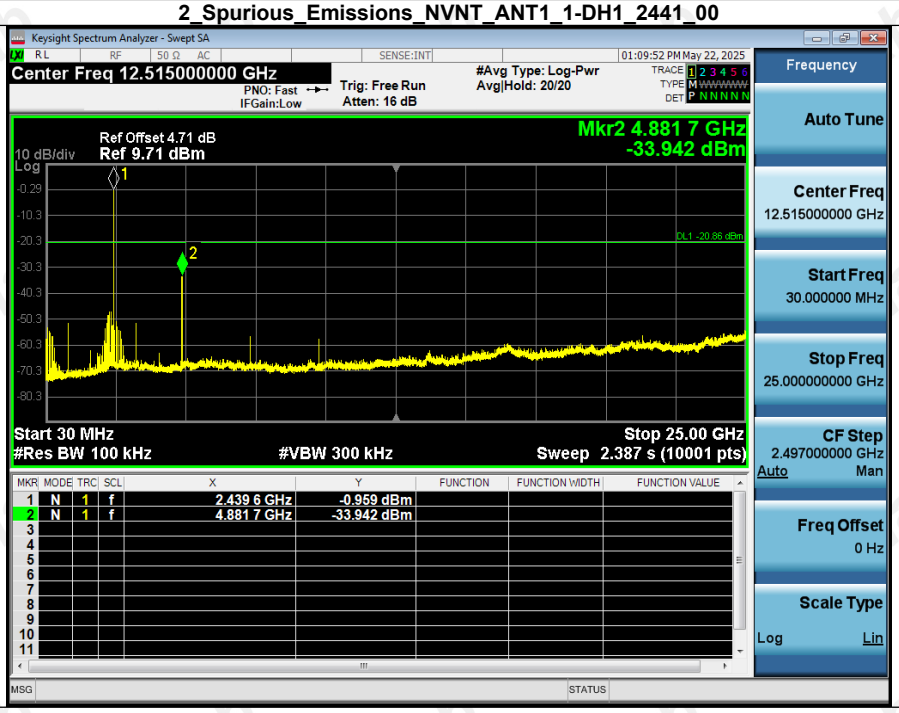
1_Reference_Level_NVNT_ANT1_1-DH1_2402_00

2_Spurious_Emissions_NVNT_ANT1_1-DH1_2402_00



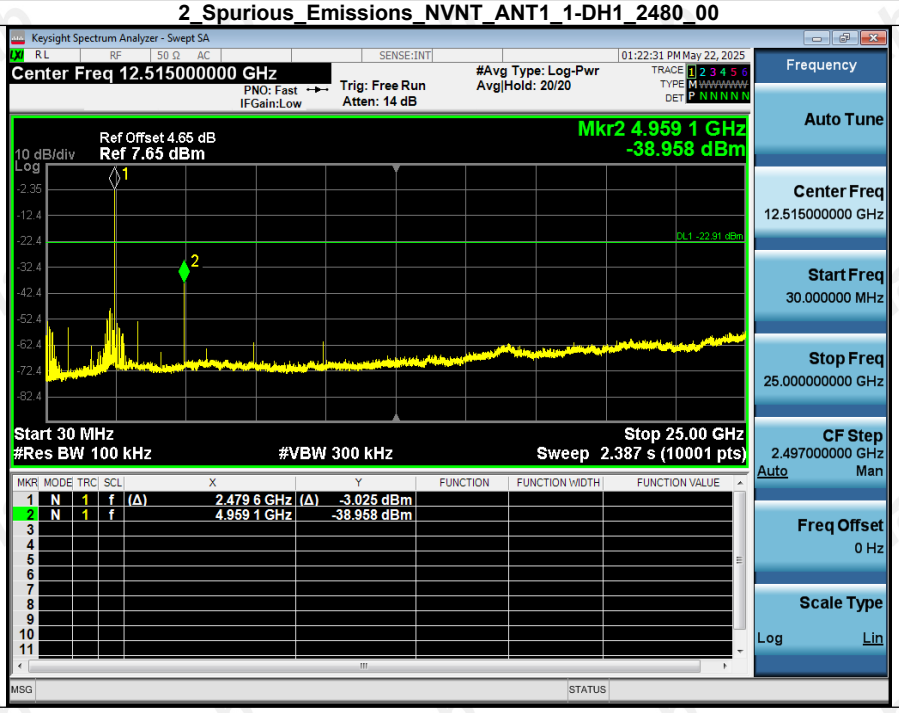
1_Reference_Level_NVNT_ANT1_1-DH1_2441_00

2_Spurious_Emissions_NVNT_ANT1_1-DH1_2441_00



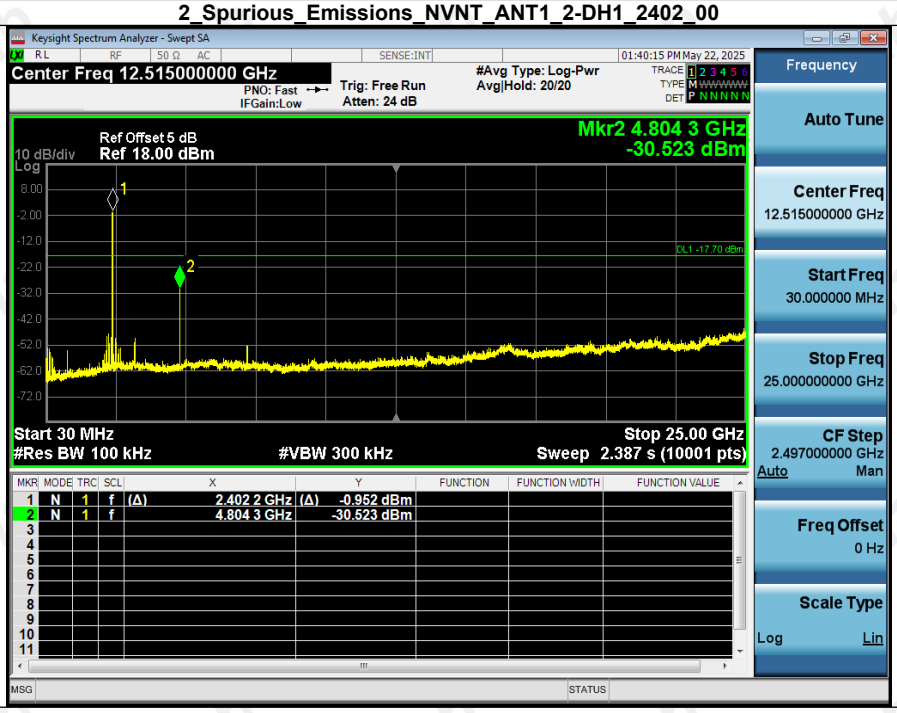
1_Reference_Level_NVNT_ANT1_1-DH1_2480_00

2_Spurious_Emissions_NVNT_ANT1_1-DH1_2480_00



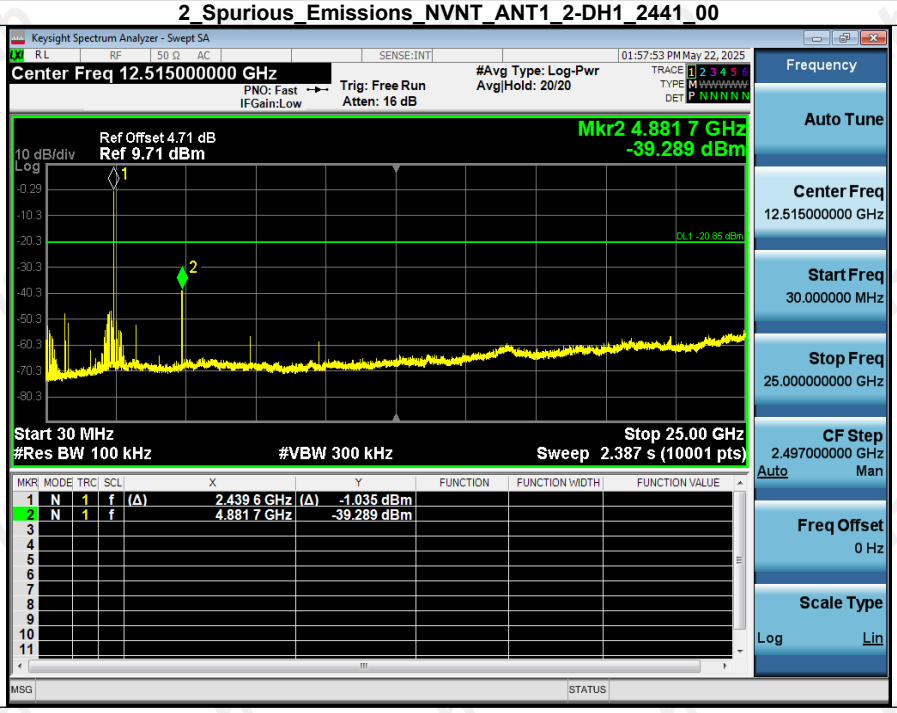
1_Reference_Level_NVNT_ANT1_2-DH1_2402_00

2_Spurious_Emissions_NVNT_ANT1_2-DH1_2402_00



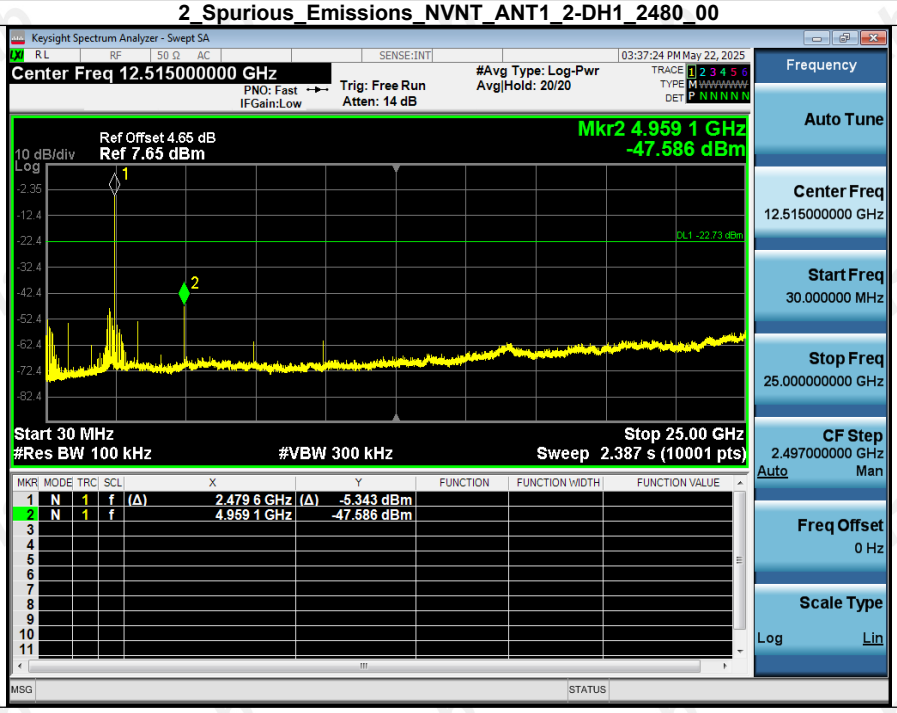
1_Reference_Level_NVNT_ANT1_2-DH1_2441_00

2_Spurious_Emissions_NVNT_ANT1_2-DH1_2441_00



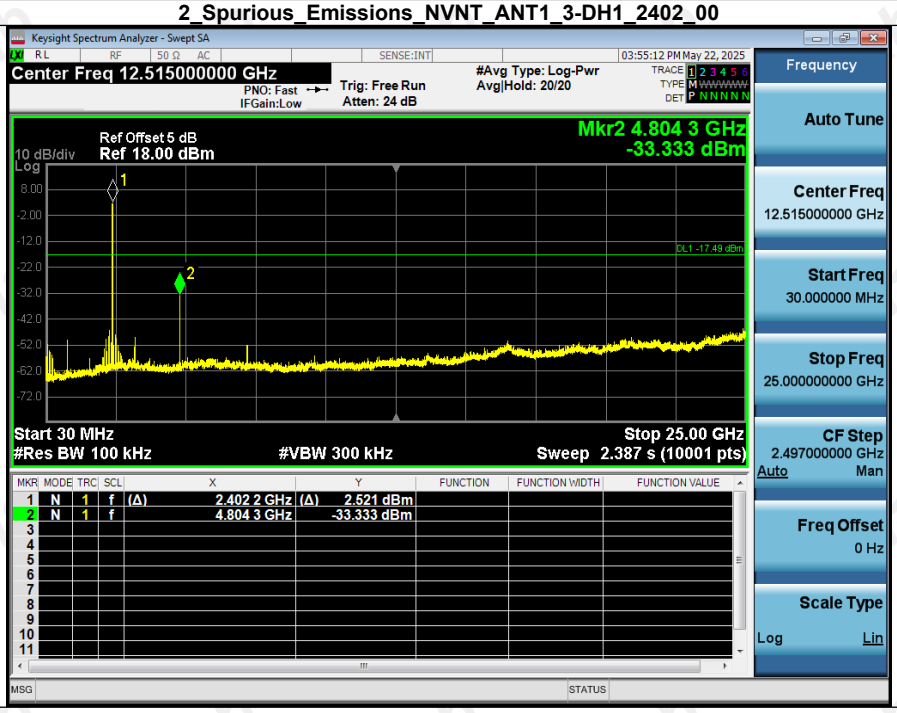
1_Reference_Level_NVNT_ANT1_2-DH1_2480_00

2_Spurious_Emissions_NVNT_ANT1_2-DH1_2480_00



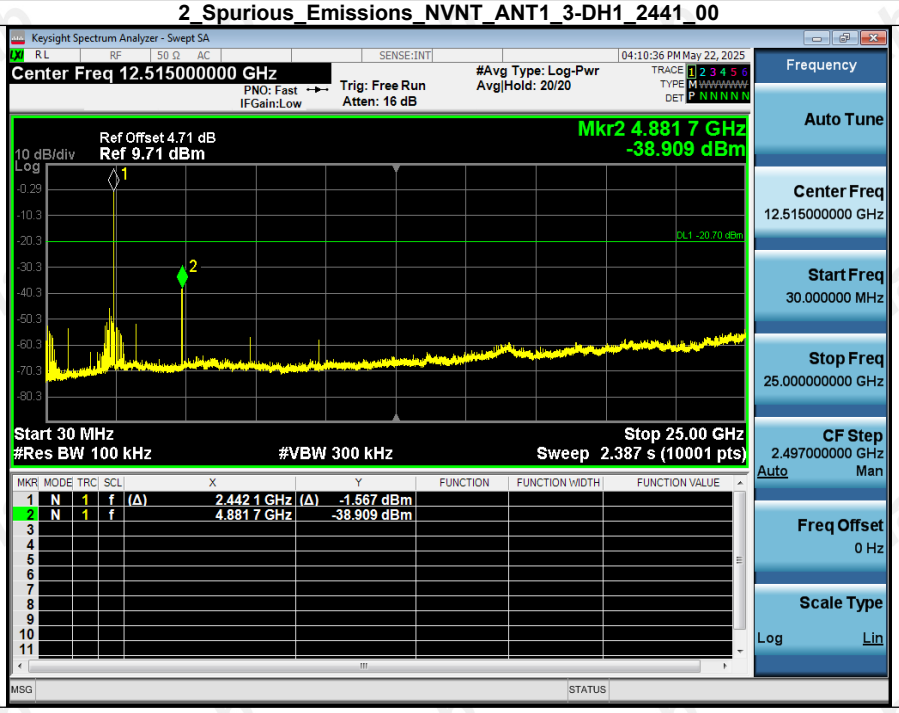
1_Reference_Level_NVNT_ANT1_3-DH1_2402_00

2_Spurious_Emissions_NVNT_ANT1_3-DH1_2402_00



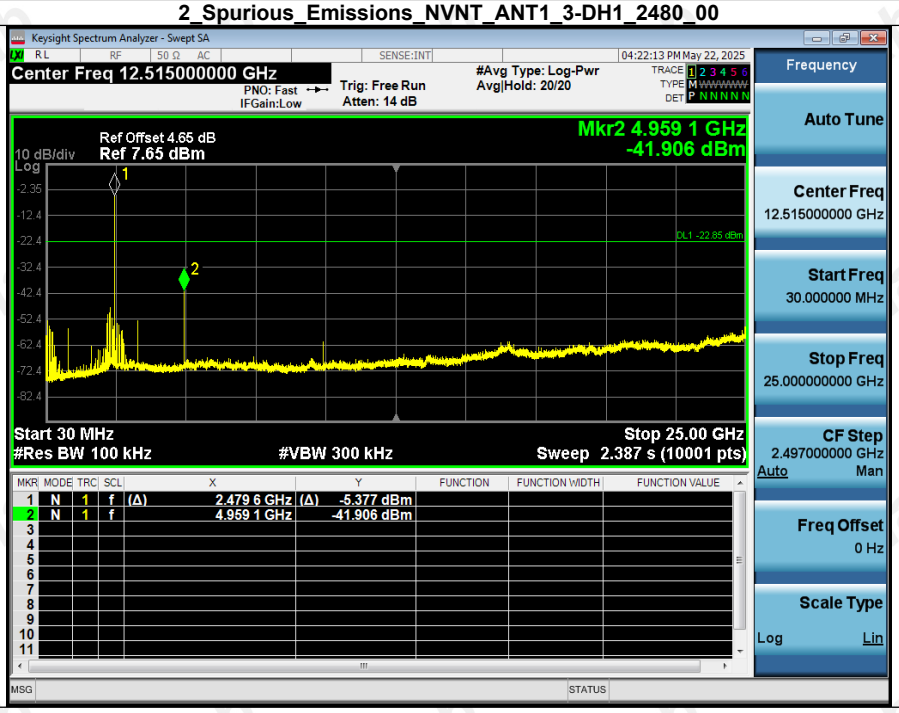
1_Reference_Level_NVNT_ANT1_3-DH1_2441_00

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

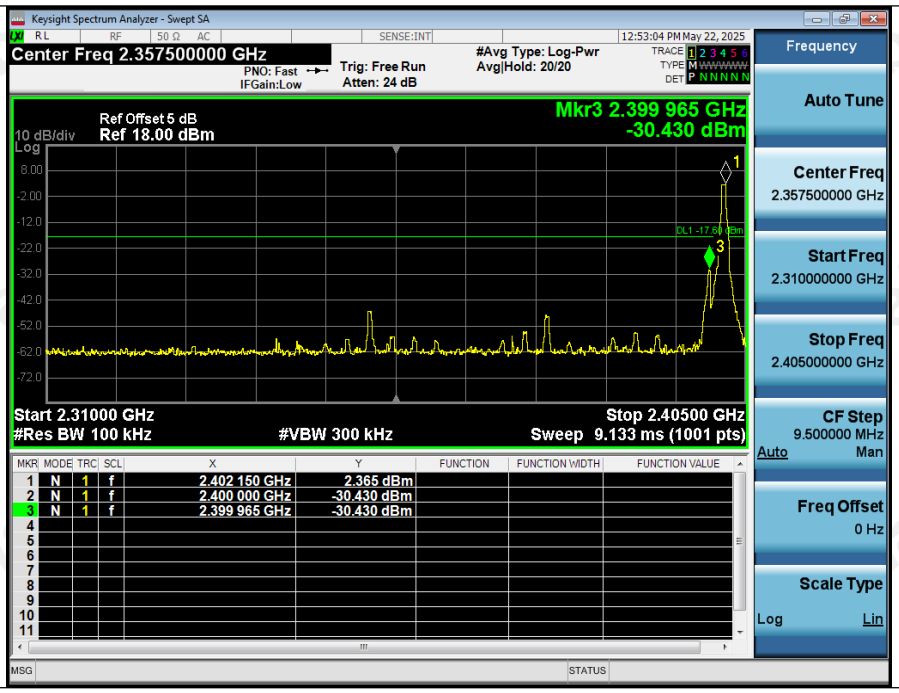


6. Bandedge

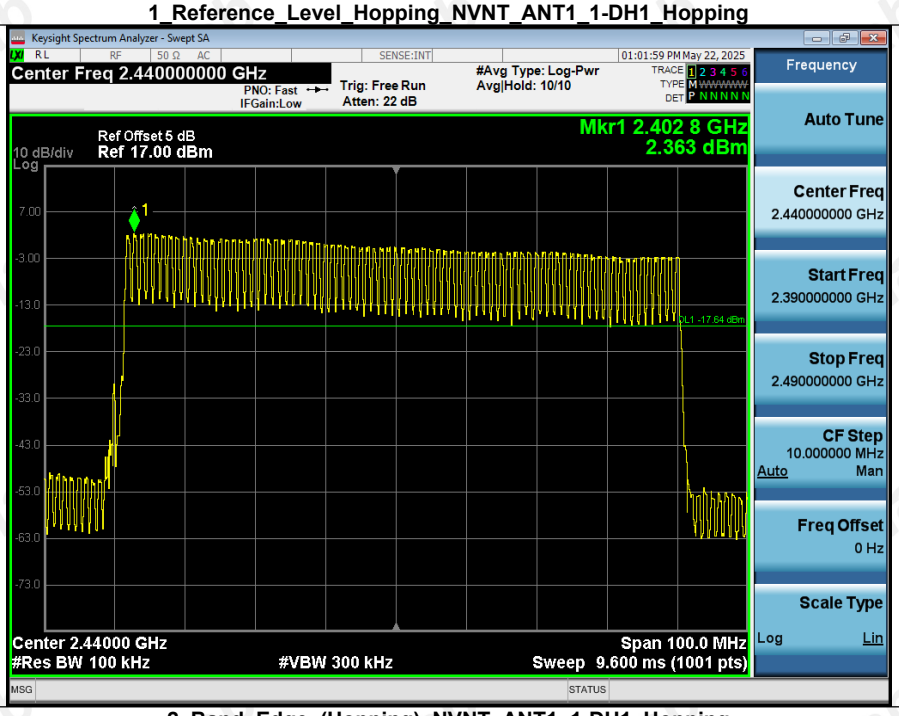
Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Bandedge MAX.Value	Limit	Result
NVNT	ANT1	1-DH1	2402.00	2.401	-30.430	-17.599	Pass
NVNT	ANT1	1-DH1	Hopping_LCH	2.363	-30.546	-17.637	Pass
NVNT	ANT1	1-DH1	2480.00	-2.907	-63.333	-22.907	Pass
NVNT	ANT1	1-DH1	Hopping_HCH	2.107	-47.405	-17.893	Pass
NVNT	ANT1	2-DH1	2402.00	2.296	-30.885	-17.704	Pass
NVNT	ANT1	2-DH1	Hopping_LCH	2.344	-30.969	-17.656	Pass
NVNT	ANT1	2-DH1	2480.00	-2.734	-63.517	-22.734	Pass
NVNT	ANT1	2-DH1	Hopping_HCH	2.230	-47.900	-17.770	Pass
NVNT	ANT1	3-DH1	2402.00	2.512	-30.195	-17.488	Pass
NVNT	ANT1	3-DH1	Hopping_LCH	2.594	-30.273	-17.406	Pass
NVNT	ANT1	3-DH1	2480.00	-2.847	-63.274	-22.847	Pass
NVNT	ANT1	3-DH1	Hopping_HCH	2.217	-46.775	-17.783	Pass

1_Reference_Level_NVNT_ANT1_1-DH1_2402_00

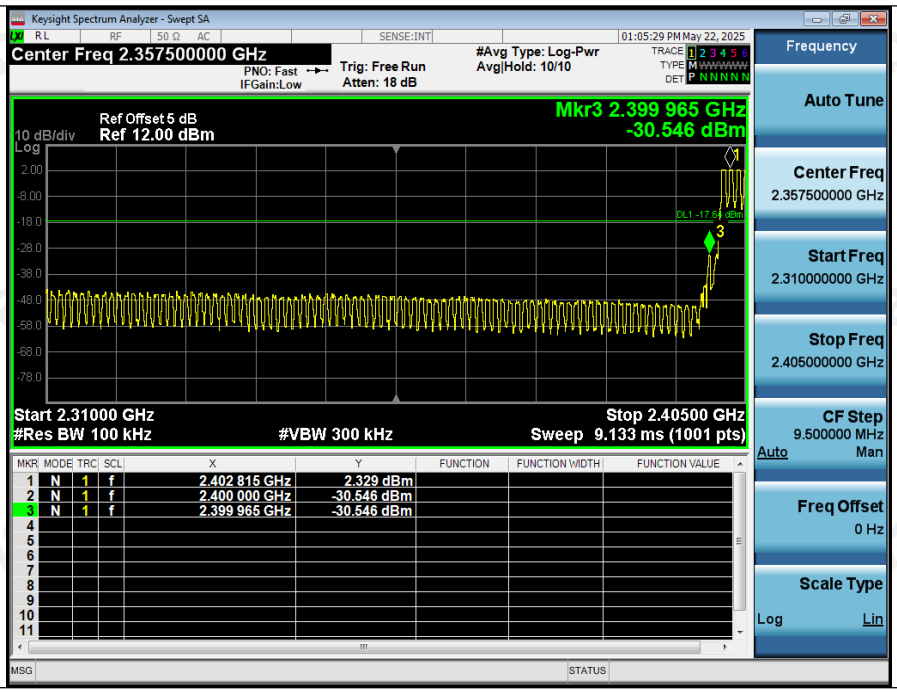
2_Bandedge_NVNT_ANT1_1-DH1_2402_00



1_Reference_Level_Hopping_NVNT_ANT1_1-DH1_Hopping

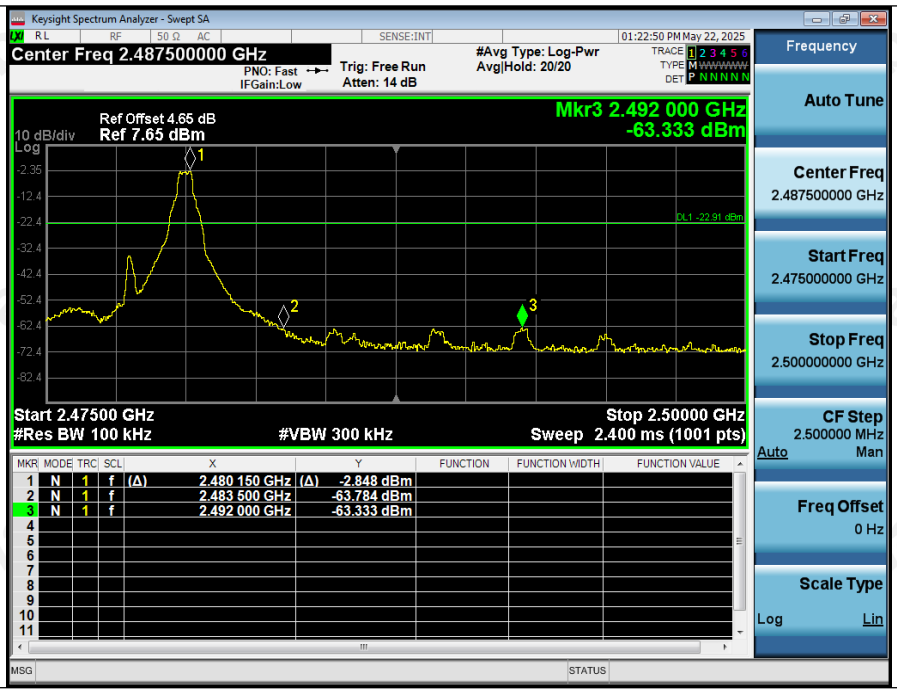


2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH1_Hopping

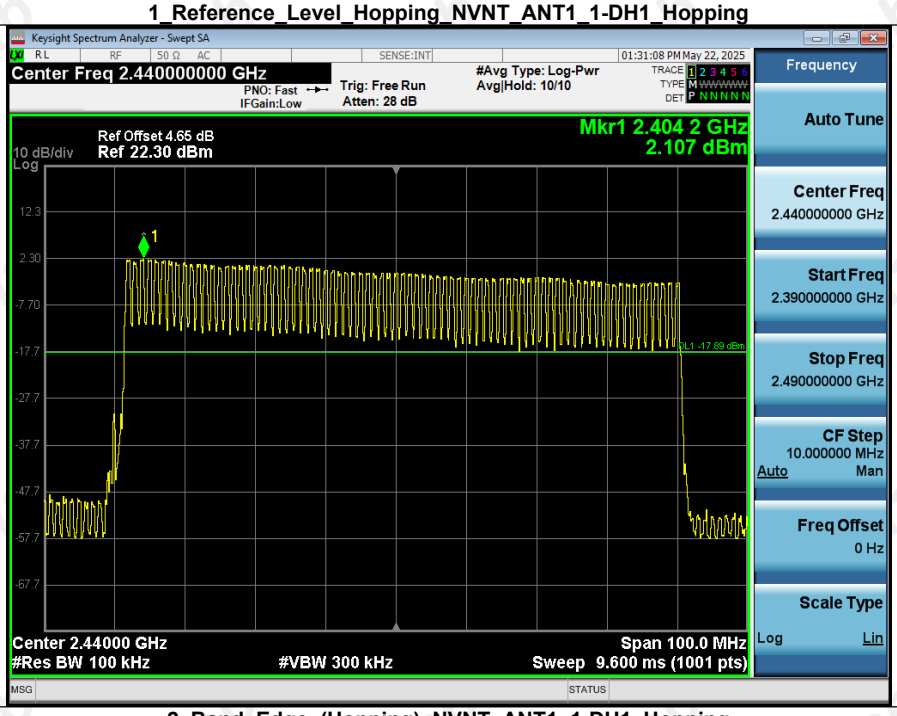


1_Reference_Level_NVNT_ANT1_1-DH1_2480_00

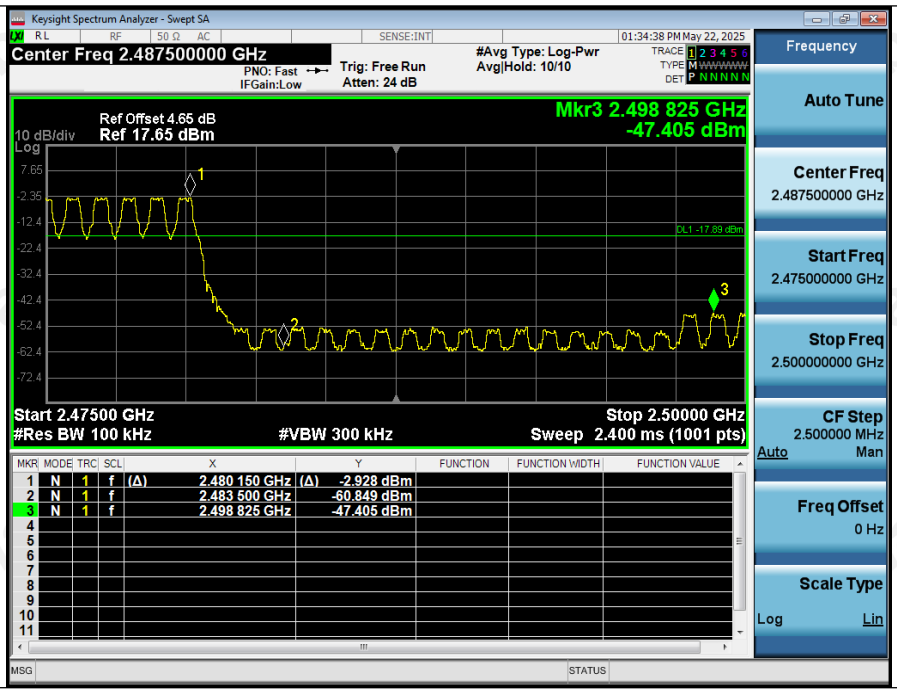
2_Bandedge_NVNT_ANT1_1-DH1_2480_00



1_Reference_Level_Hopping_NVNT_ANT1_1-DH1_Hopping

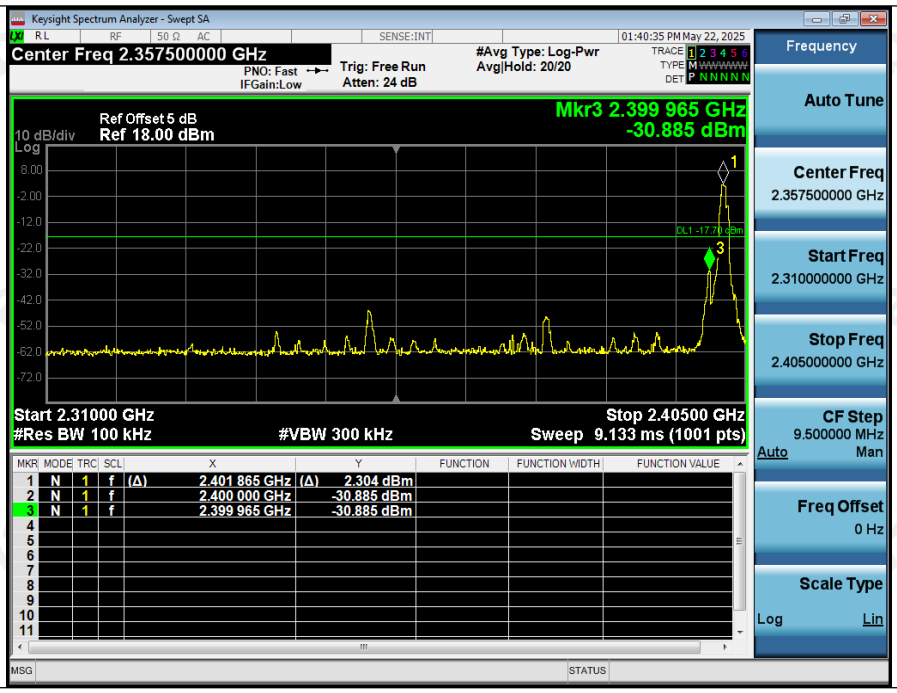


2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH1_Hopping

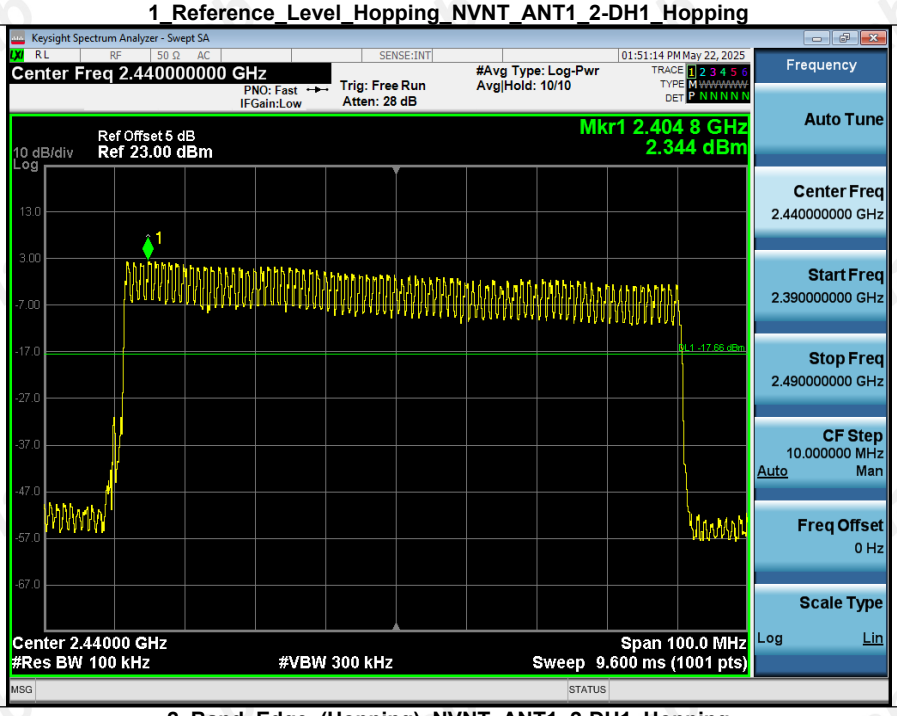


1_Reference_Level_NVNT_ANT1_2-DH1_2402_00

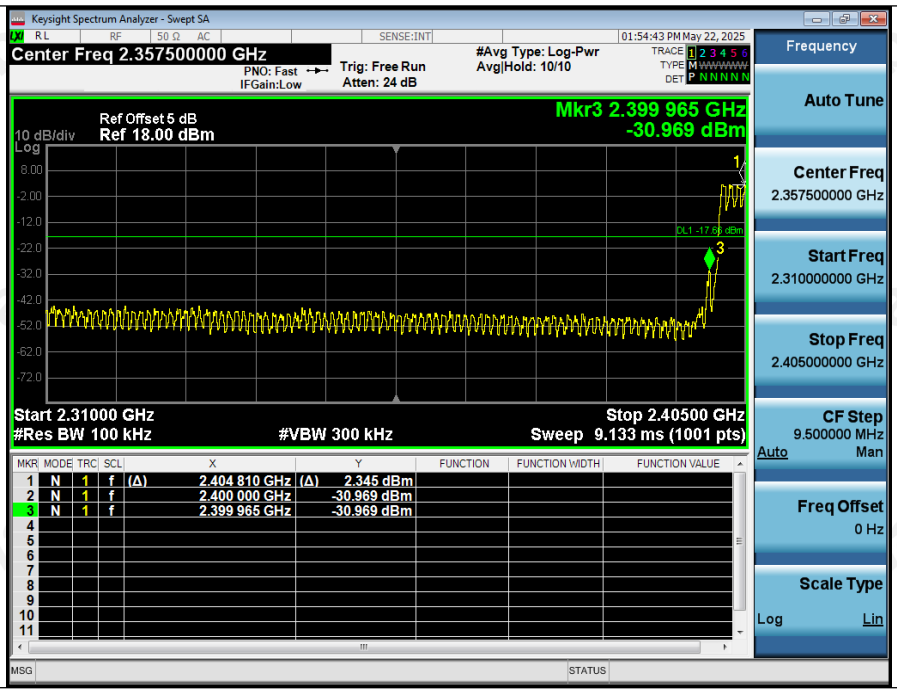
2_Bandedge_NVNT_ANT1_2-DH1_2402_00



1_Reference_Level_Hopping_NVNT_ANT1_2-DH1_Hopping

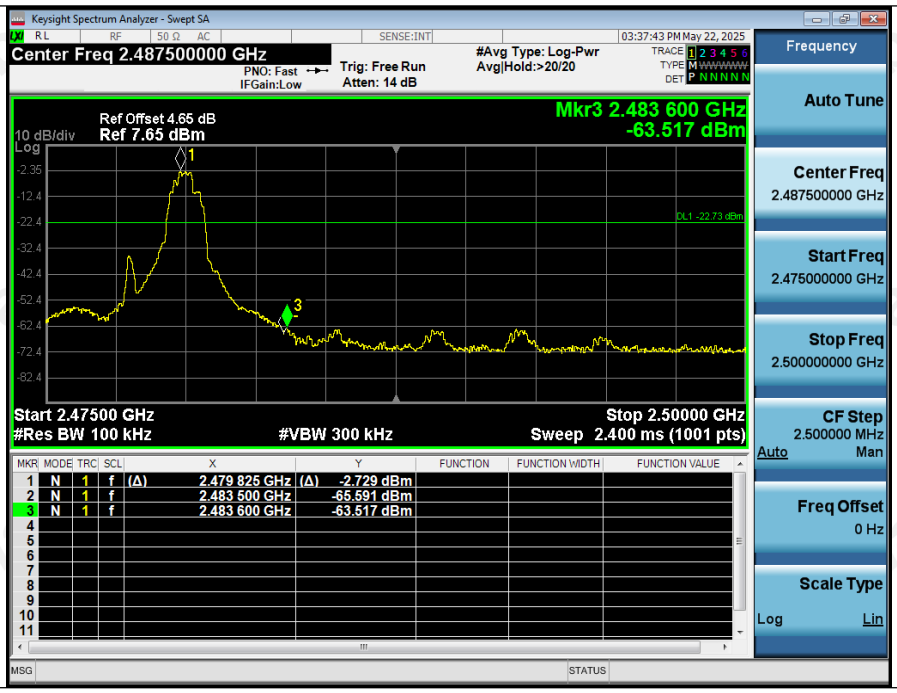


2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH1_Hopping

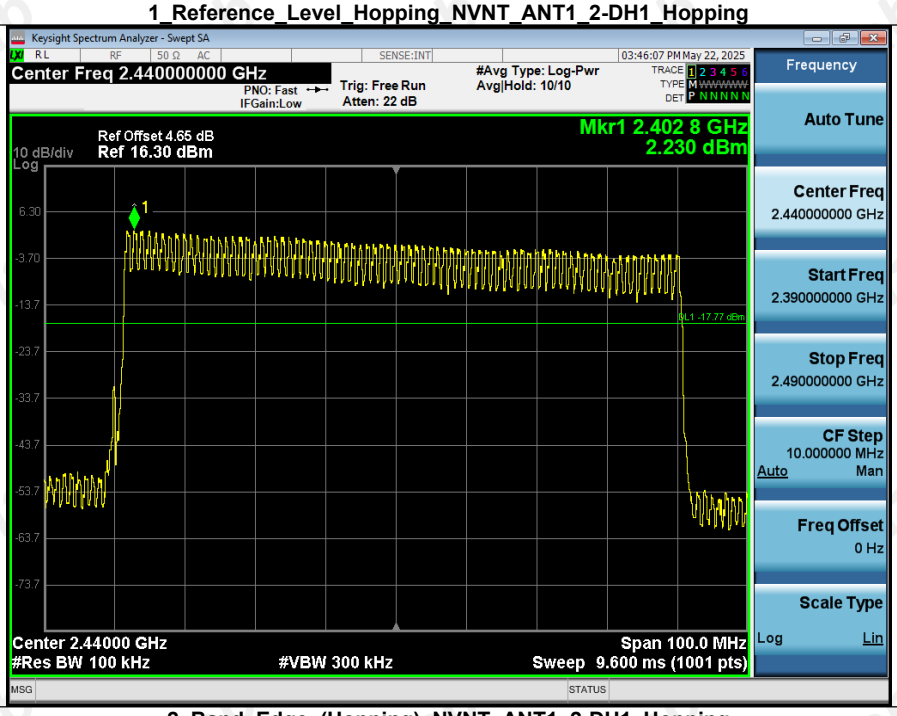


1_Reference_Level_NVNT_ANT1_2-DH1_2480_00

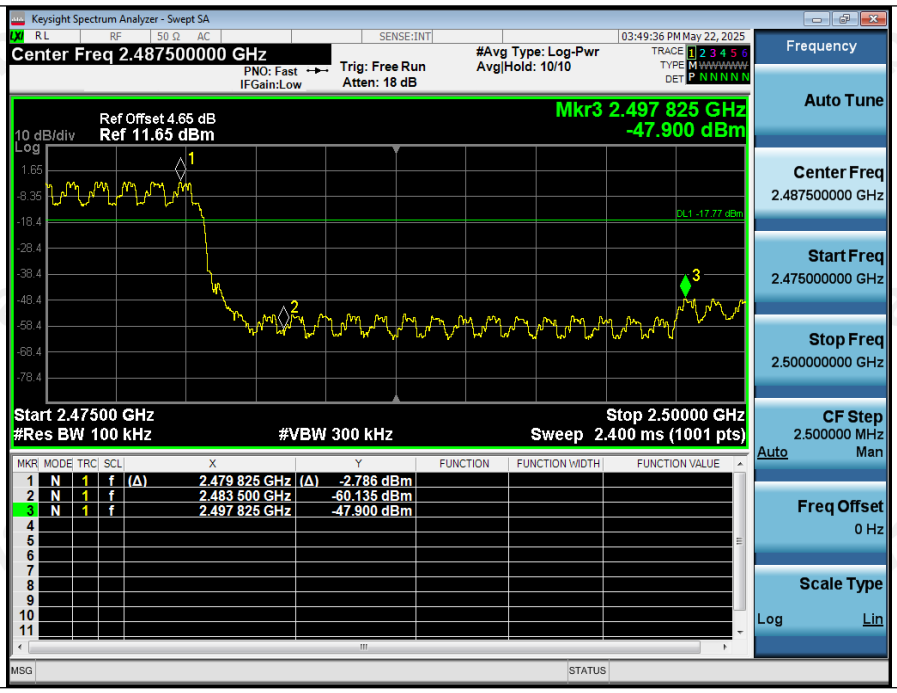
2_Bandedge_NVNT_ANT1_2-DH1_2480_00



1_Reference_Level_Hopping_NVNT_ANT1_2-DH1_Hopping

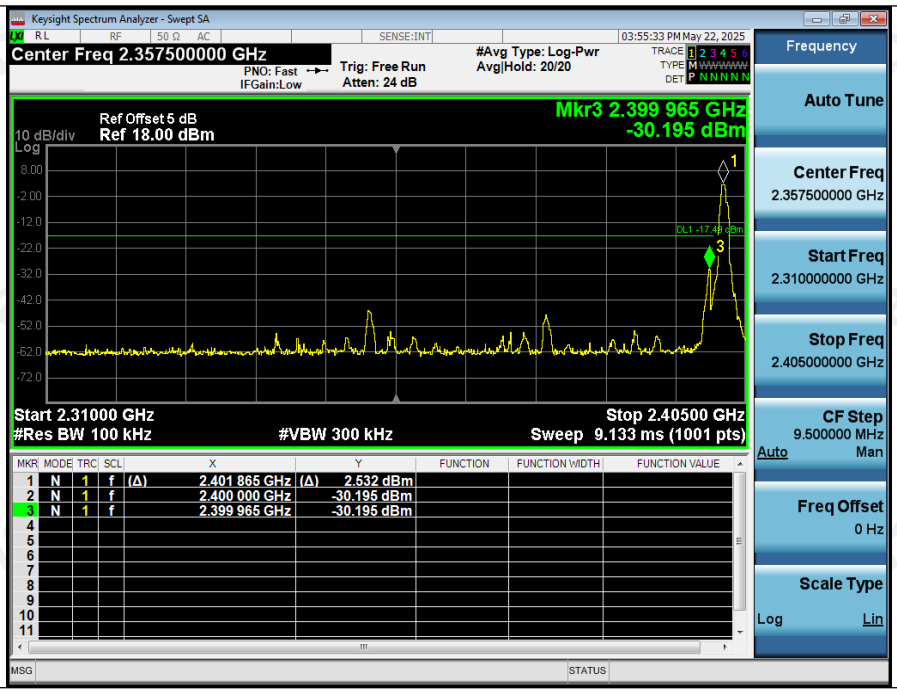


2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH1_Hopping

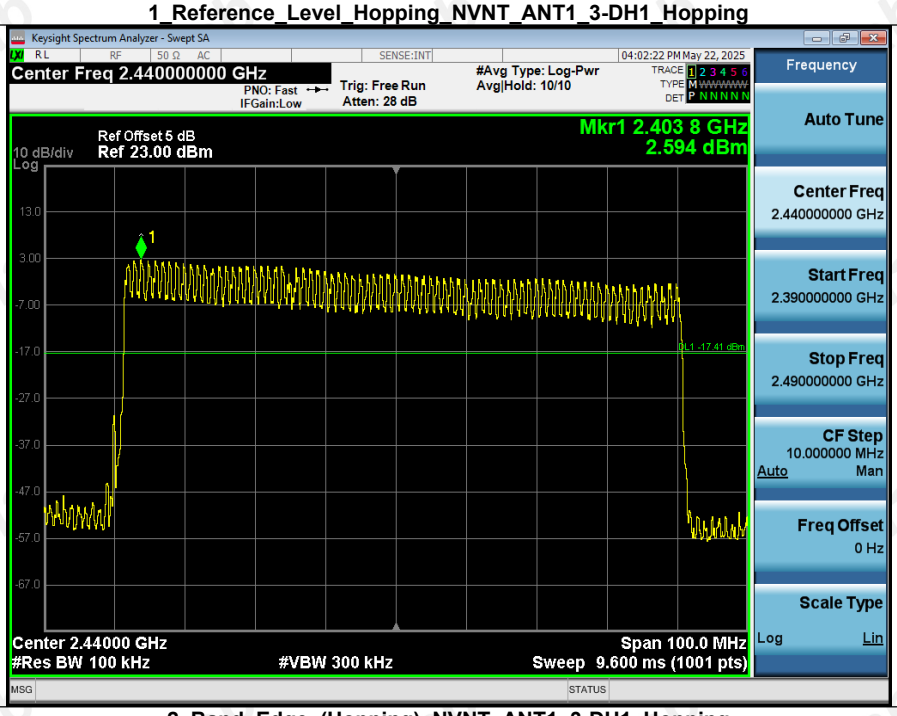


1_Reference_Level_NVNT_ANT1_3-DH1_2402_00

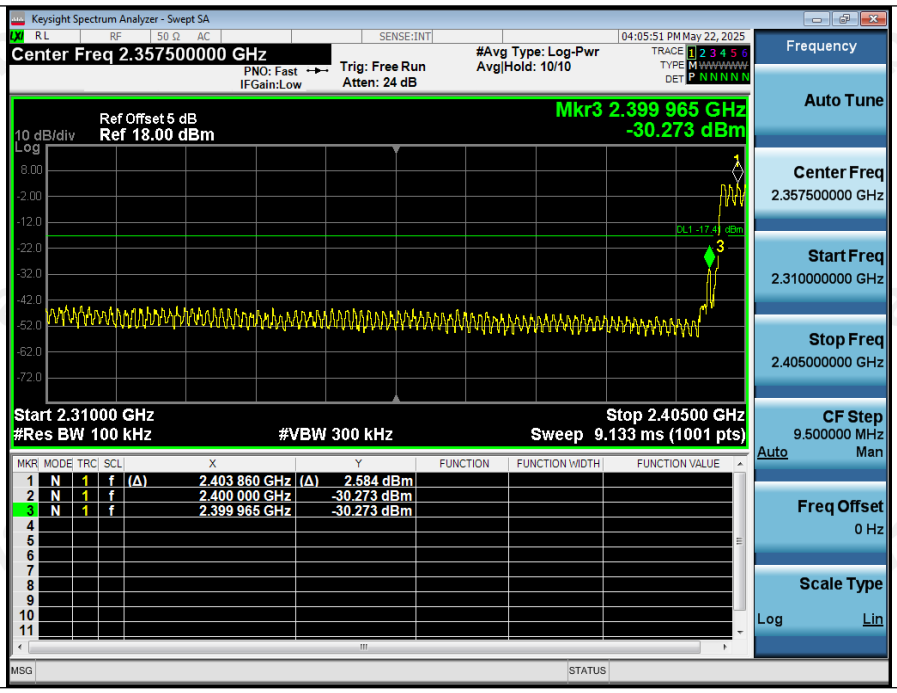
2_Bandedge_NVNT_ANT1_3-DH1_2402_00



1_Reference_Level_Hopping_NVNT_ANT1_3-DH1_Hopping

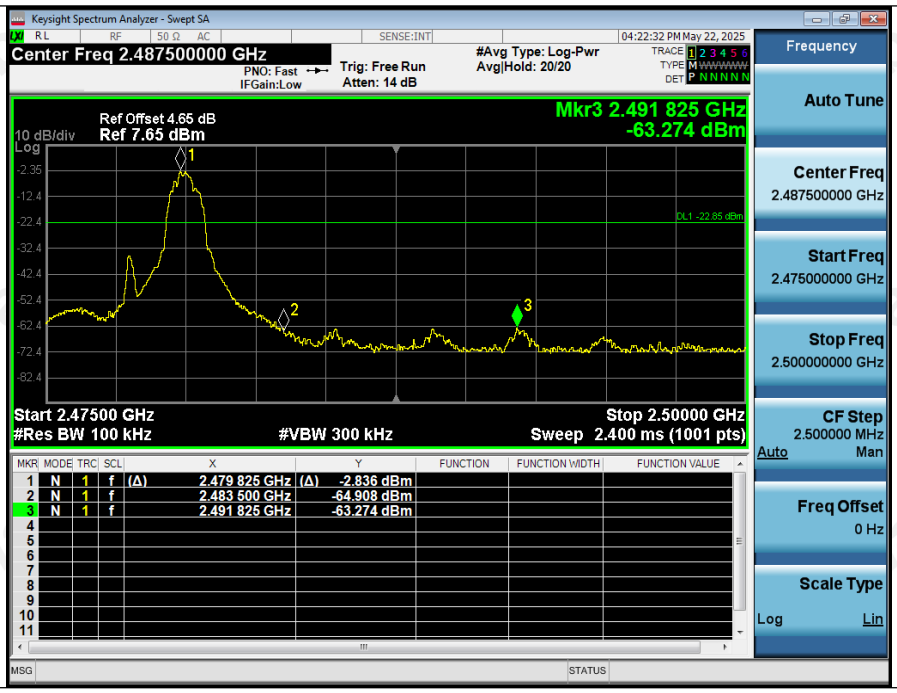


2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH1_Hopping

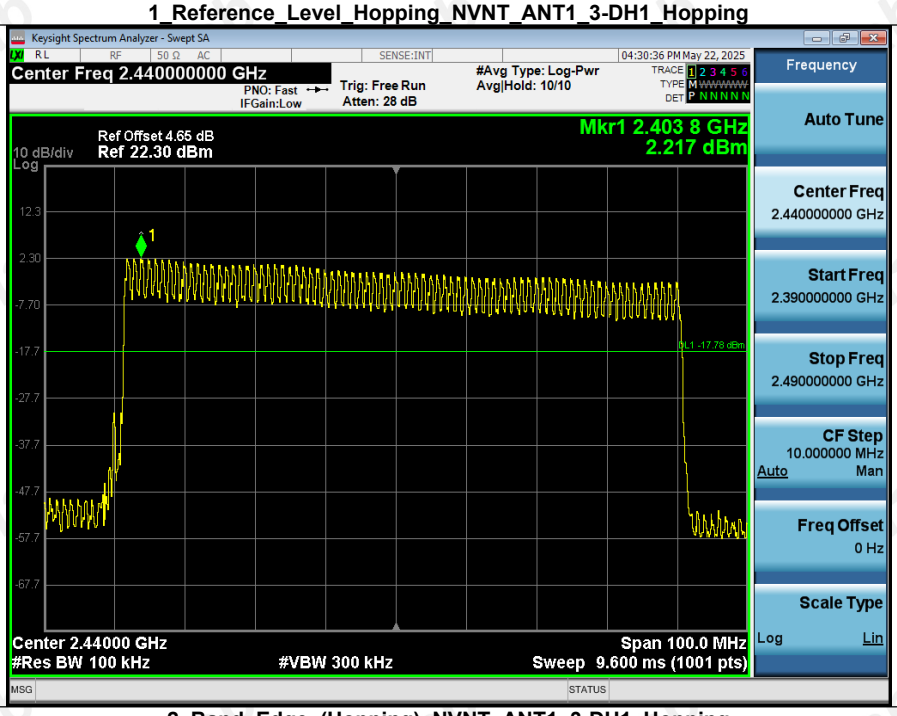


1_Reference_Level_NVNT_ANT1_3-DH1_2480_00

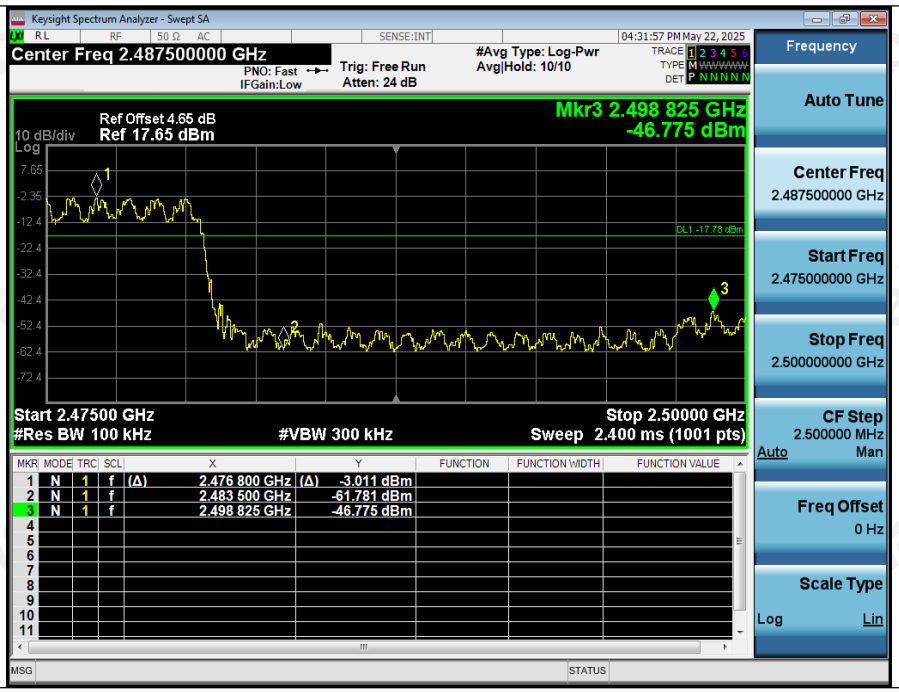
2_Bandedge_NVNT_ANT1_3-DH1_2480_00



1_Reference_Level_Hopping_NVNT_ANT1_3-DH1_Hopping



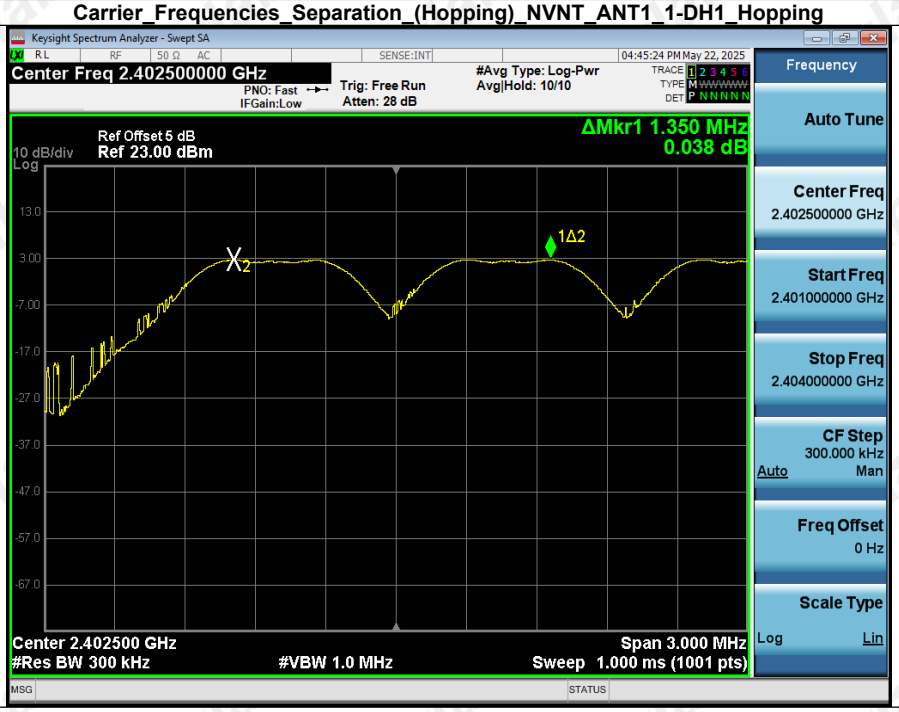
2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH1_Hopping


Keysight Spectrum Analyzer - Swept SA
Center Freq 2.487500000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 24 dB
#Avg Type: Log-Pwr
Avg|Hold: 10/10
04:31:57 PM May 22, 2025
Ref Offset 4.65 dB
10 dB/div
Ref 17.65 dBm
Mkr3 2.498 825 GHz
-46.775 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) 2.476 800 GHz (Δ) -3.011 dBm
2 N 1 f 2.483 500 GHz -61.781 dBm
3 N 1 f 2.498 825 GHz -46.775 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

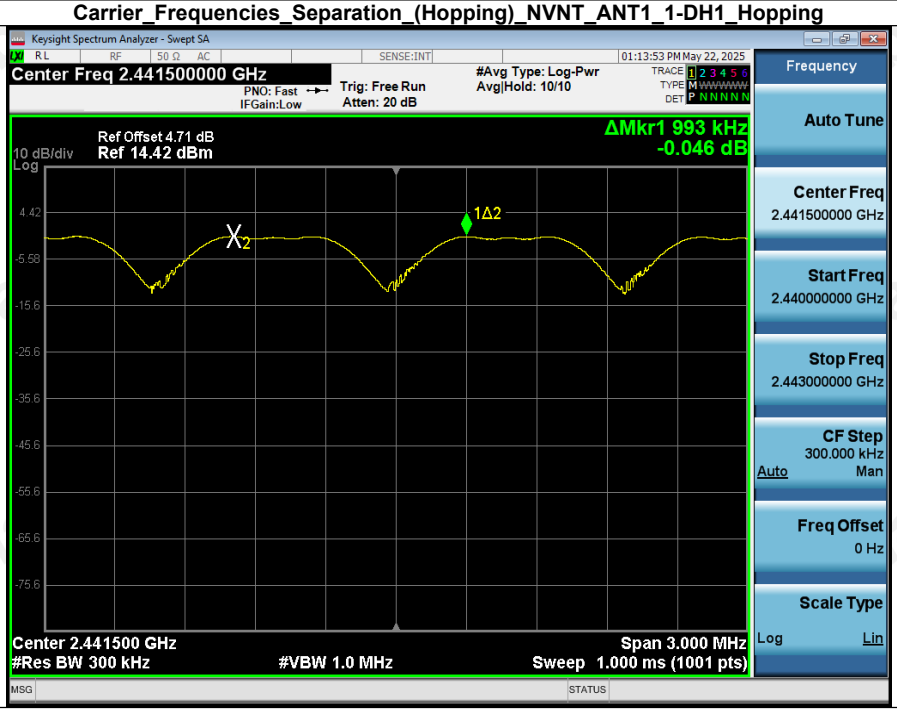
7. Carrier Frequencies Separation (Hopping)

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	2401.807	2403.157	1.35	0.675	Pass
NVNT	ANT1	1-DH1	2441.00	2440.807	2441.800	0.99	0.669	Pass
NVNT	ANT1	1-DH1	2480.00	2479.182	2480.187	1.05	0.667	Pass
NVNT	ANT1	2-DH1	2402.00	2401.807	2402.806	1.00	0.857	Pass
NVNT	ANT1	2-DH1	2441.00	2440.798	2441.803	1.00	0.858	Pass
NVNT	ANT1	2-DH1	2480.00	2478.801	2480.136	1.33	0.859	Pass
NVNT	ANT1	3-DH1	2402.00	2401.864	2402.866	1.00	0.851	Pass
NVNT	ANT1	3-DH1	2441.00	2440.798	2441.809	1.01	0.853	Pass
NVNT	ANT1	3-DH1	2480.00	2478.798	2479.809	1.01	0.848	Pass

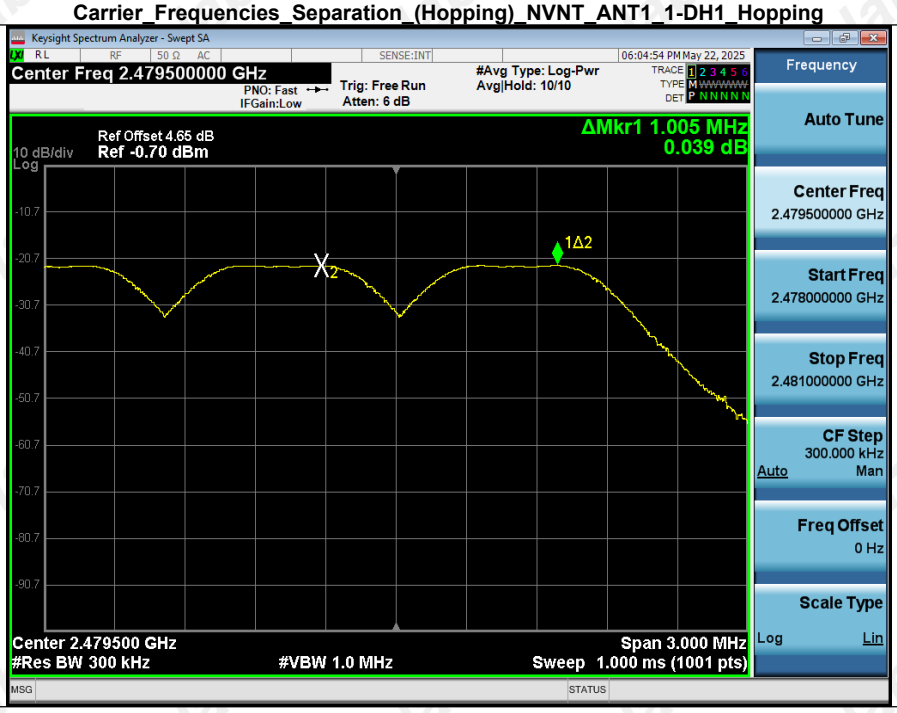
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH1_Hopping



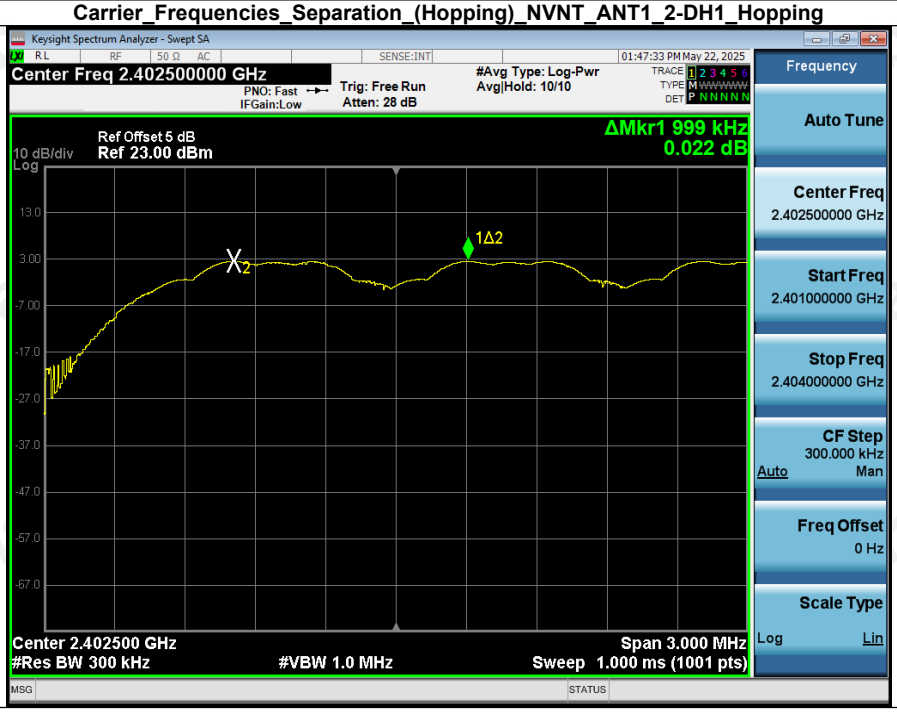
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH1_Hopping



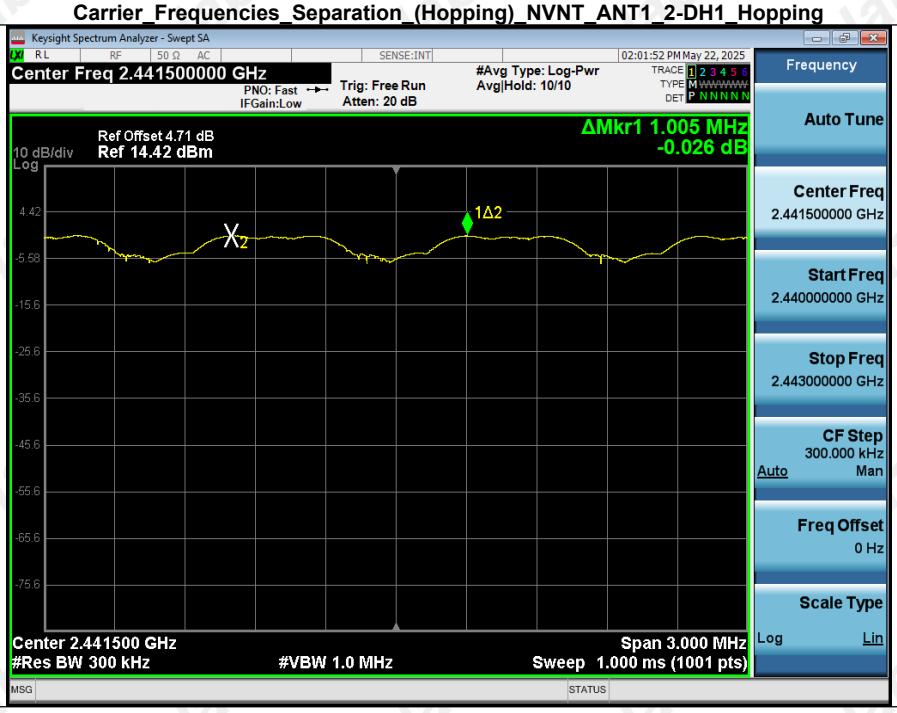
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH1_Hopping



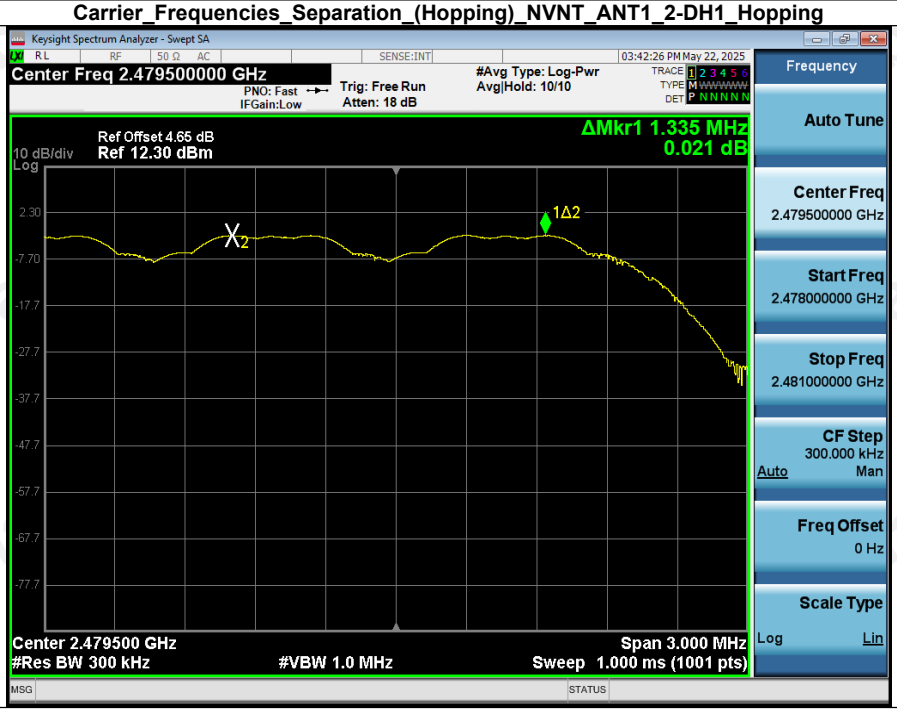
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH1_Hopping



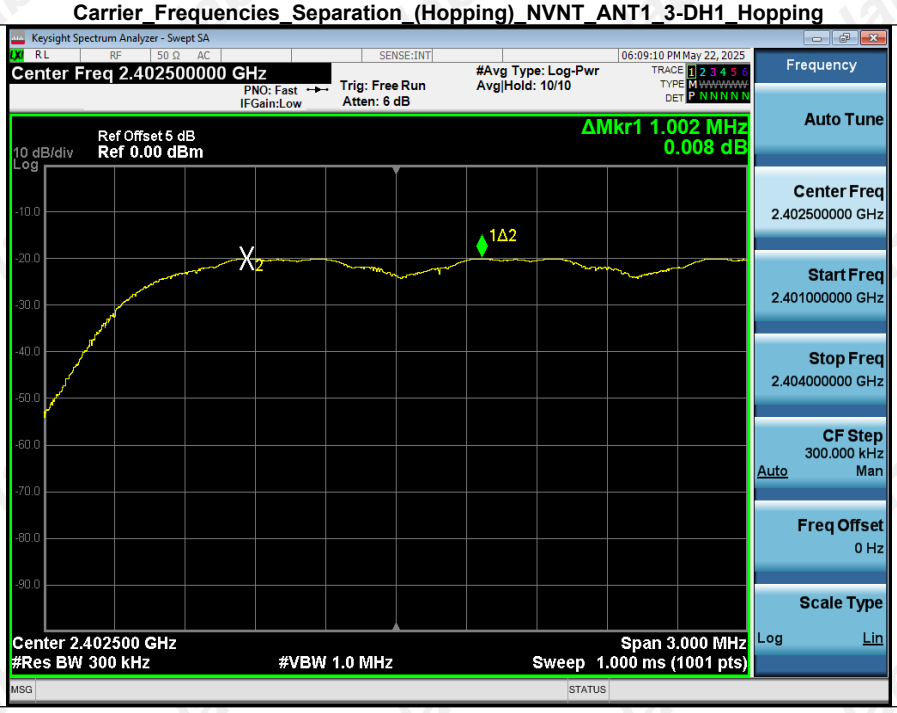
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH1_Hopping



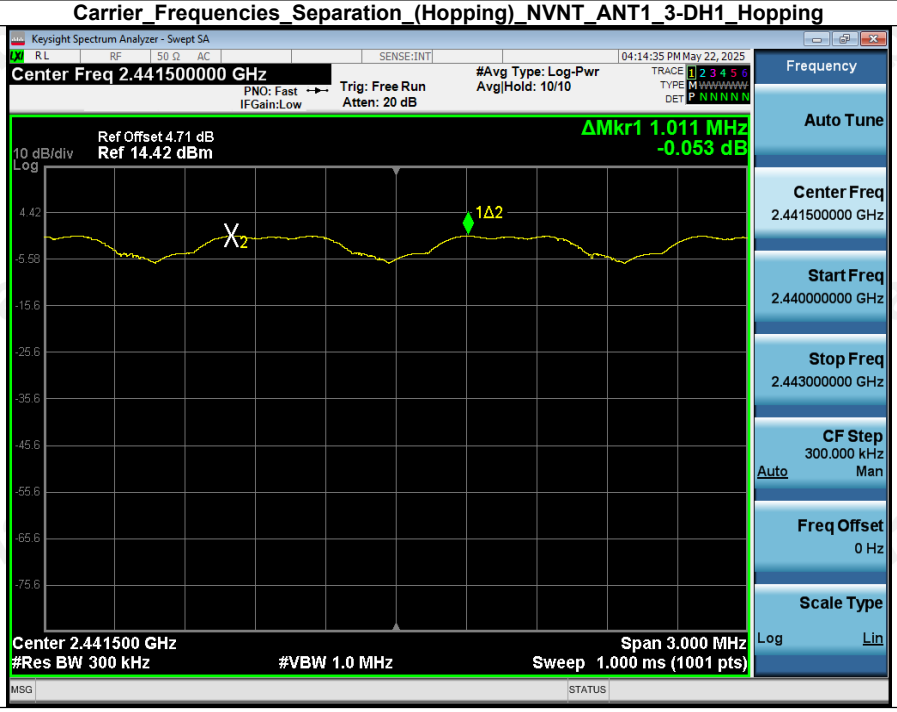
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH1_Hopping



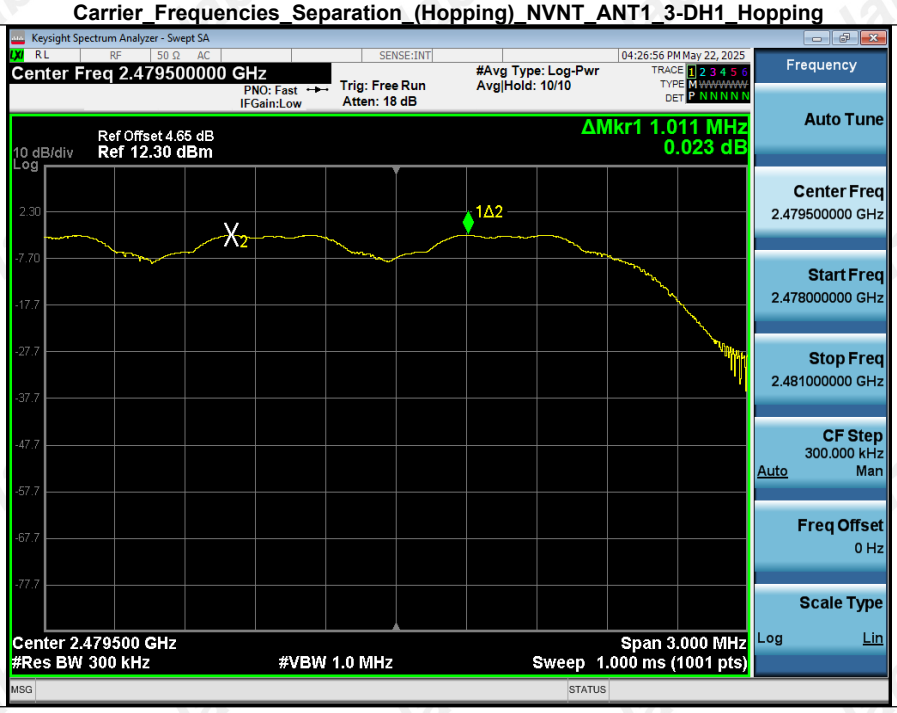
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH1_Hopping



Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH1_Hopping



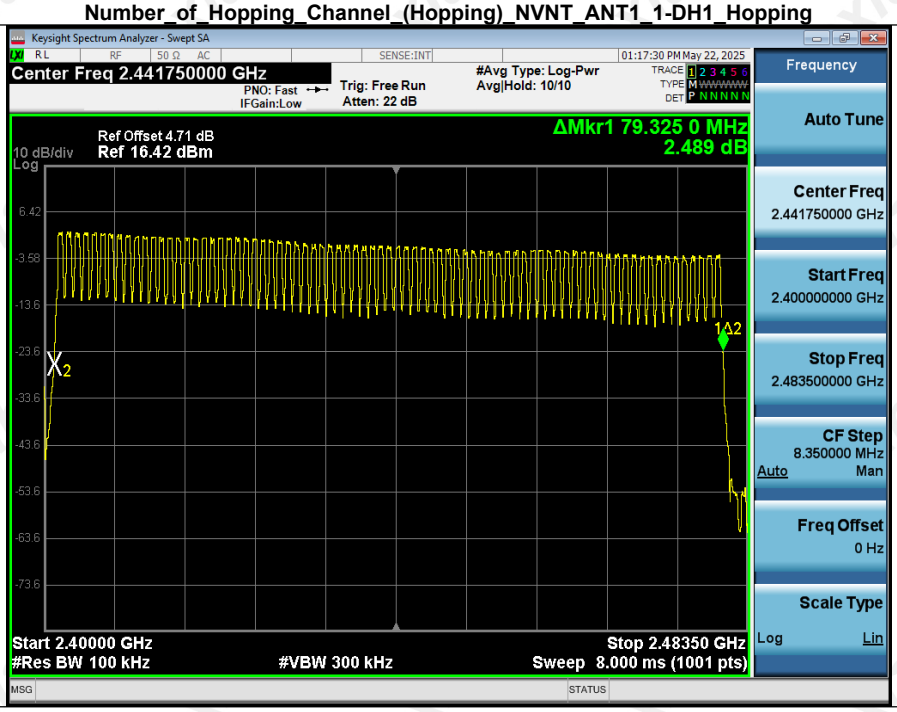
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH1_Hopping



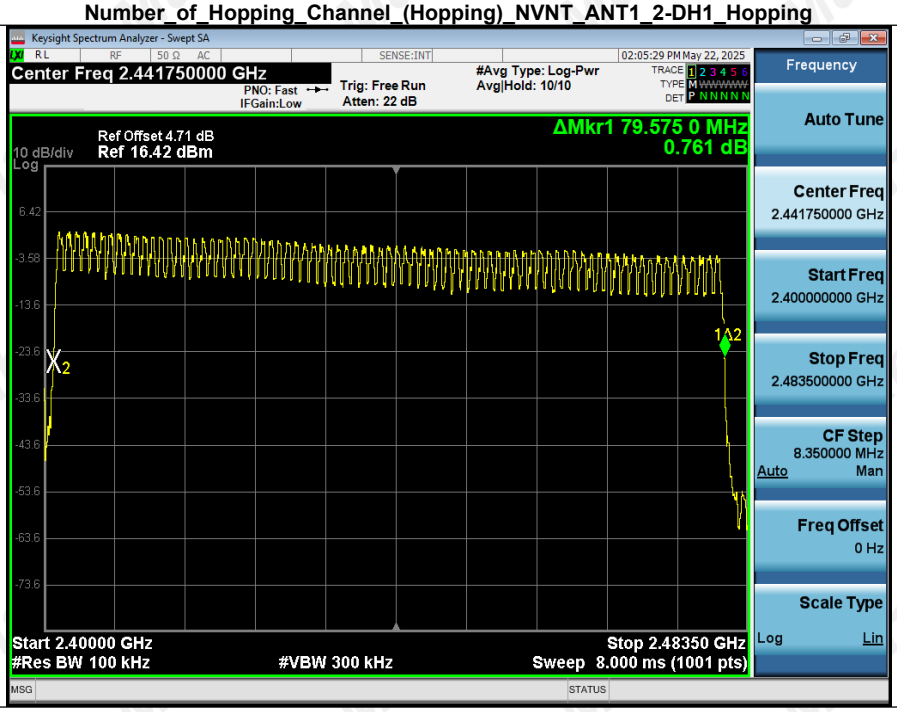
8. Number of Hopping Channel (Hopping)

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	80	15	Pass

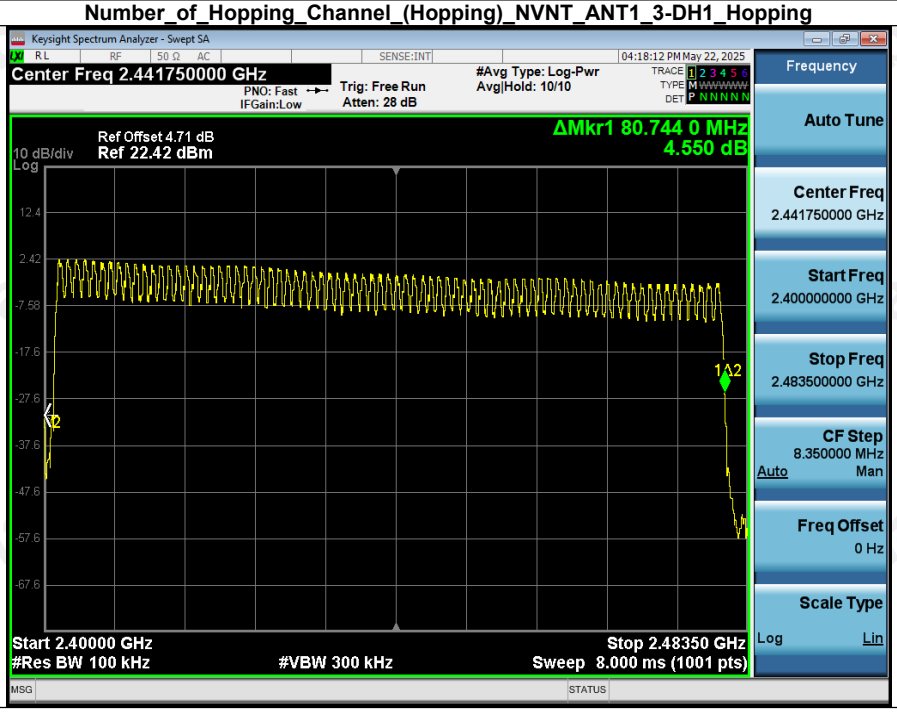
Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_1-DH1_Hopping



Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_2-DH1_Hopping



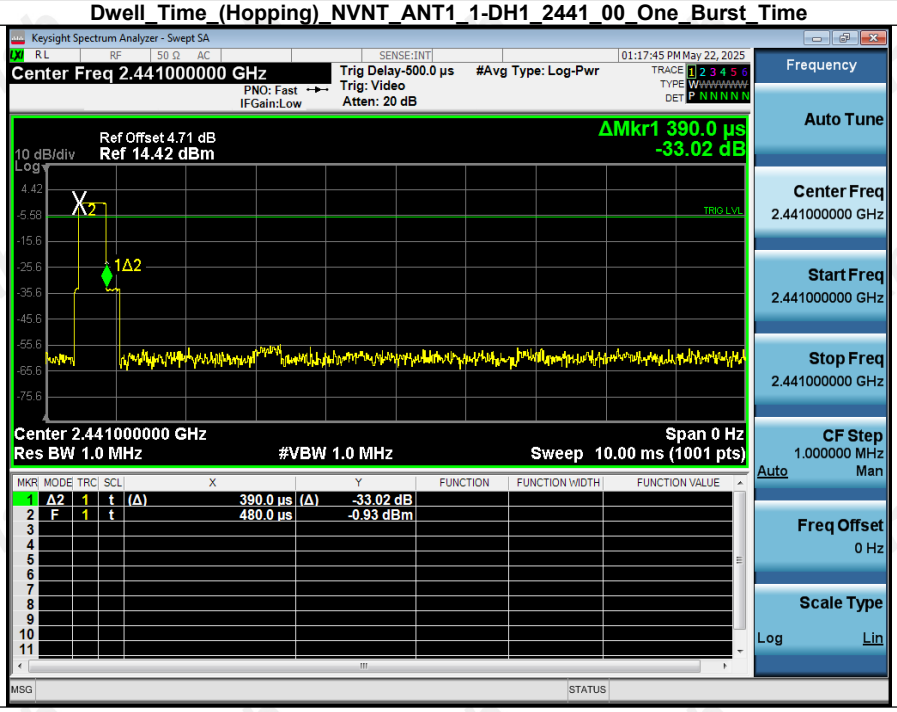
Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_3-DH1_Hopping



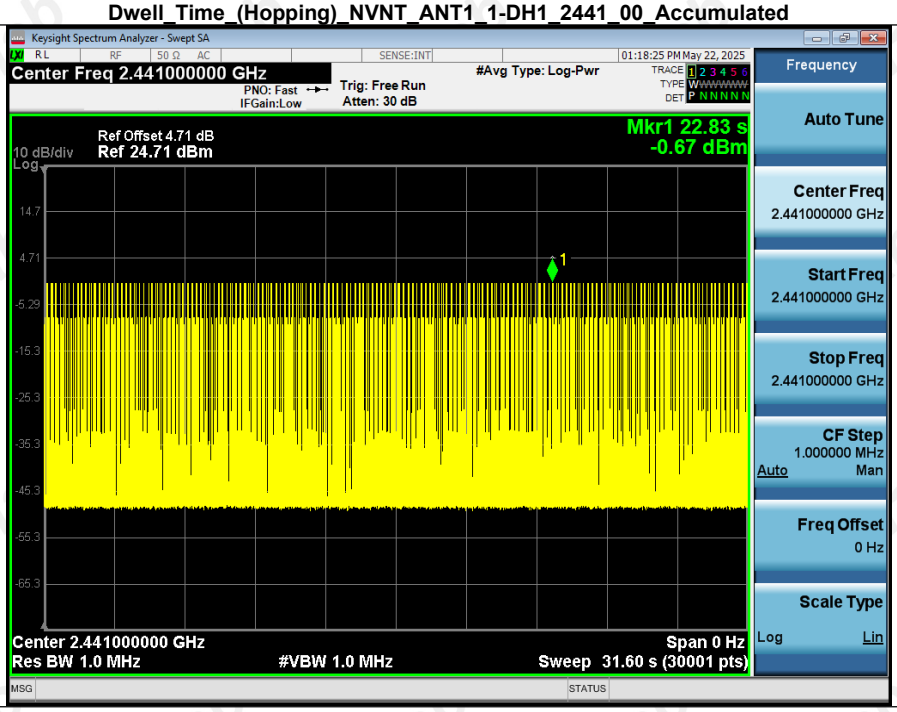
9. Dwell Time (Hopping)

Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH1	0.390	318.00	124.020	0.40	Pass
NVNT	ANT1	2-DH1	0.400	318.00	127.200	0.40	Pass
NVNT	ANT1	3-DH1	0.400	318.00	127.200	0.40	Pass
NVNT	ANT1	1-DH3	1.660	176.00	292.160	0.40	Pass
NVNT	ANT1	1-DH5	2.900	107.00	310.300	0.40	Pass
NVNT	ANT1	2-DH3	1.650	174.00	287.100	0.40	Pass
NVNT	ANT1	2-DH5	2.900	111.00	321.900	0.40	Pass
NVNT	ANT1	3-DH3	1.650	151.00	249.150	0.40	Pass
NVNT	ANT1	3-DH5	2.900	125.00	362.500	0.40	Pass

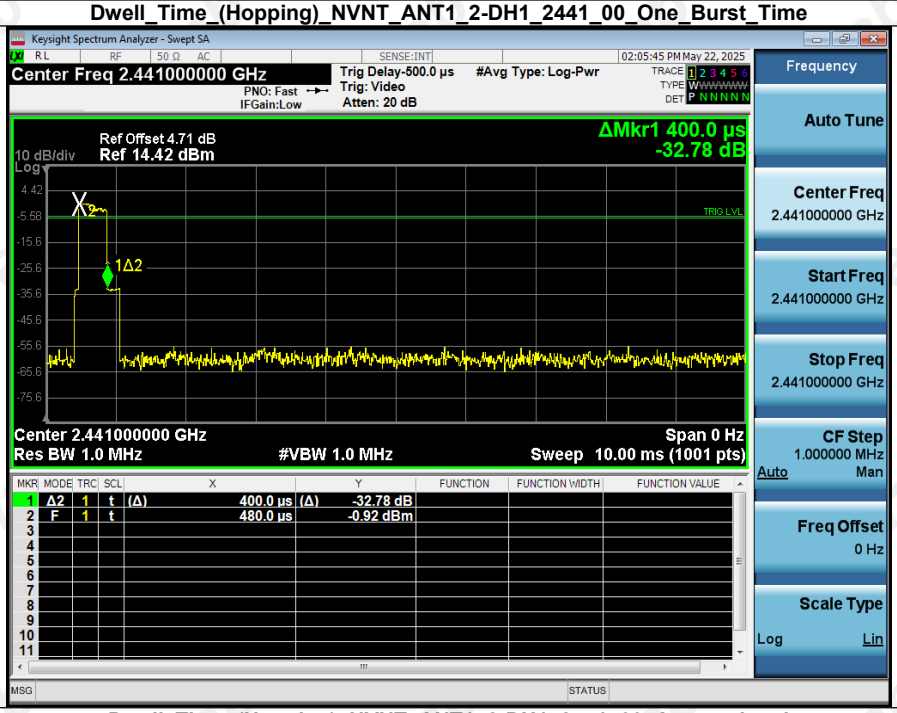
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH1_2441_00_One_Burst_Time



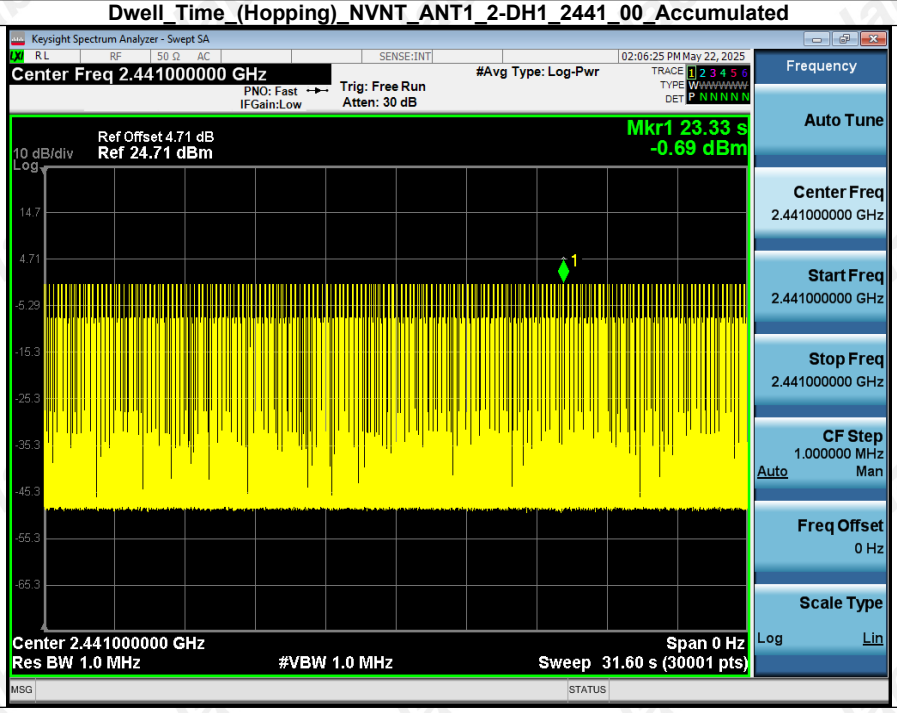
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH1_2441_00_Accumulated



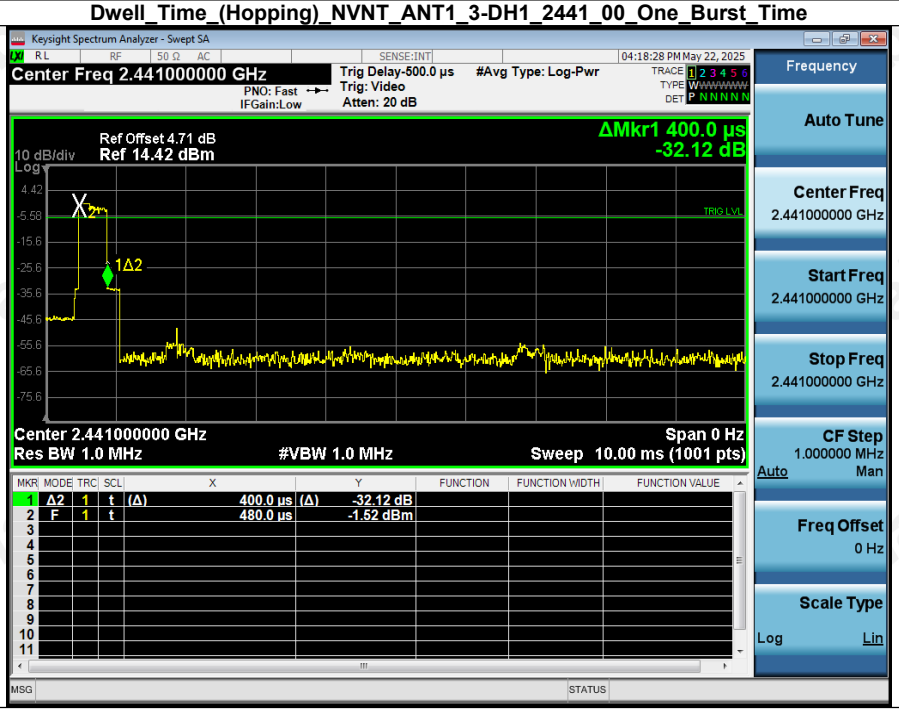
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH1_2441_00_One_Burst_Time



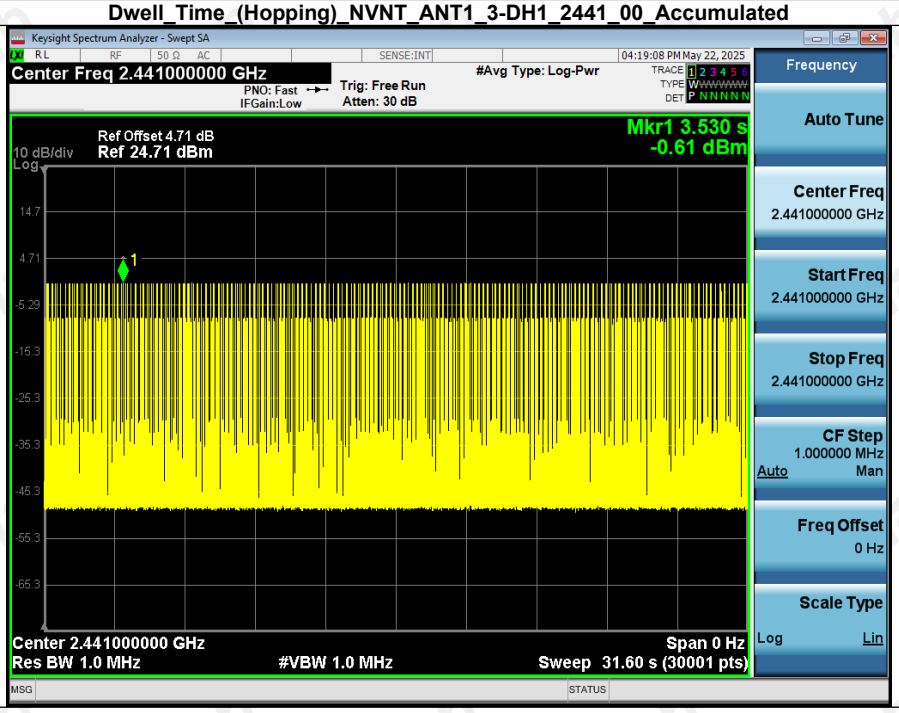
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH1_2441_00_Accumulated



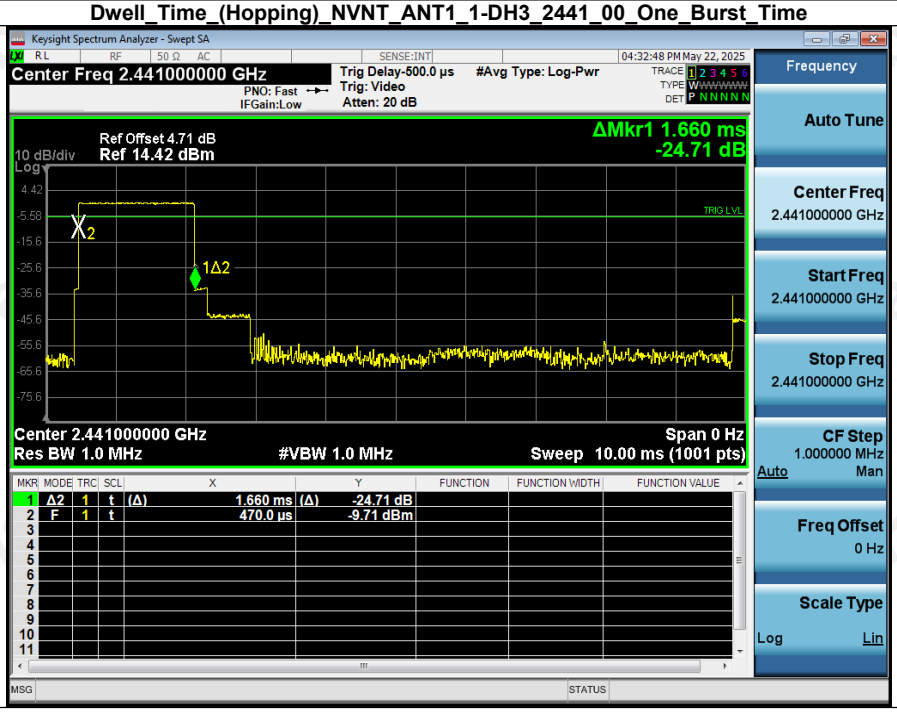
Dwell_Time_(Hopping)_NVNT_ANT1_3-DH1_2441_00_One_Burst_Time



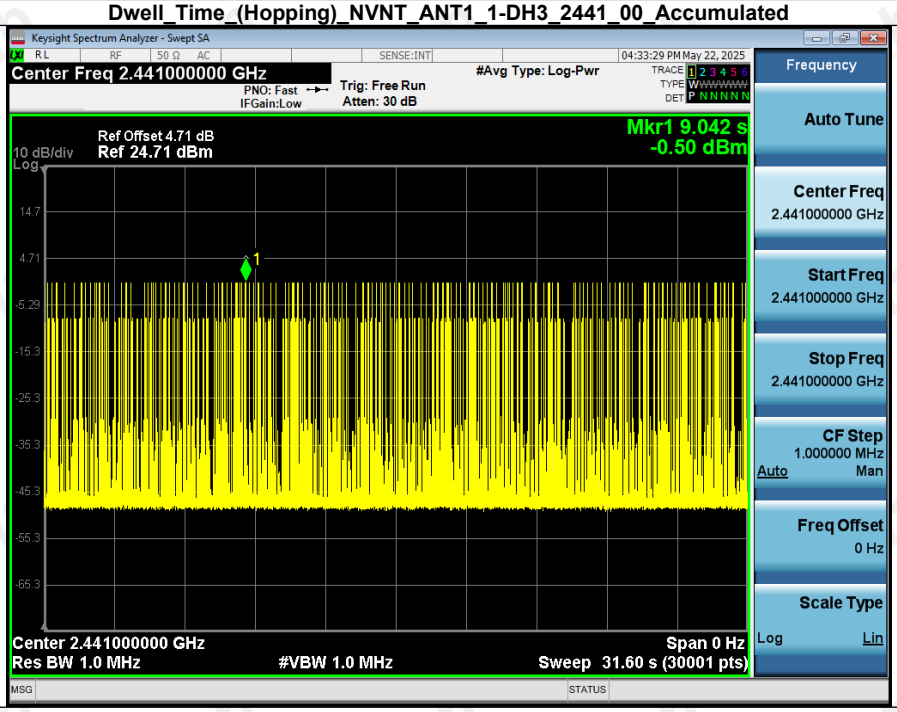
Dwell_Time_(Hopping)_NVNT_ANT1_3-DH1_2441_00_Accumulated



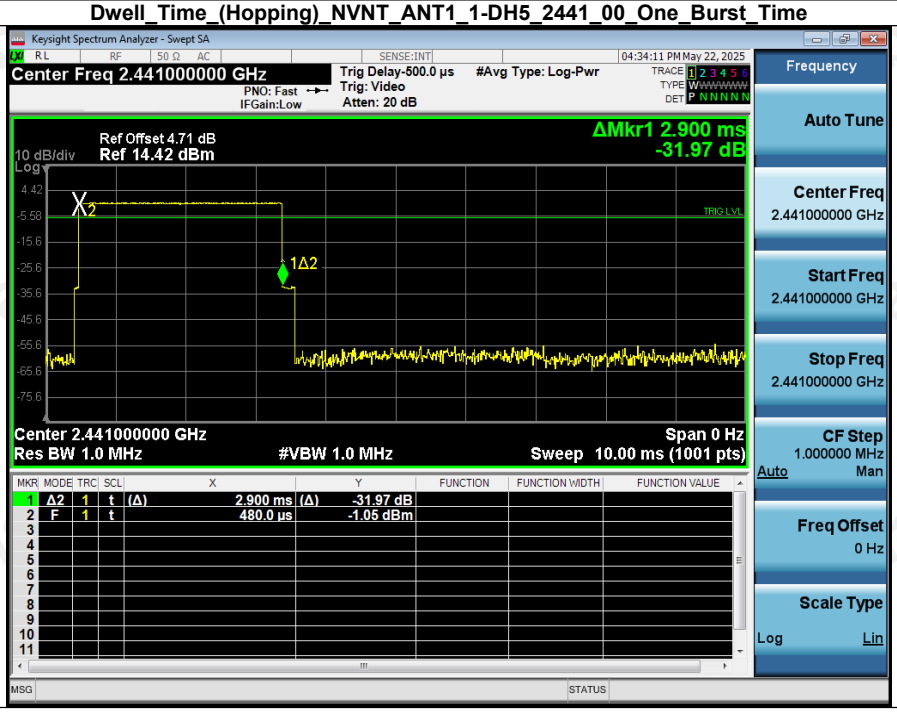
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH3_2441_00_One_Burst_Time



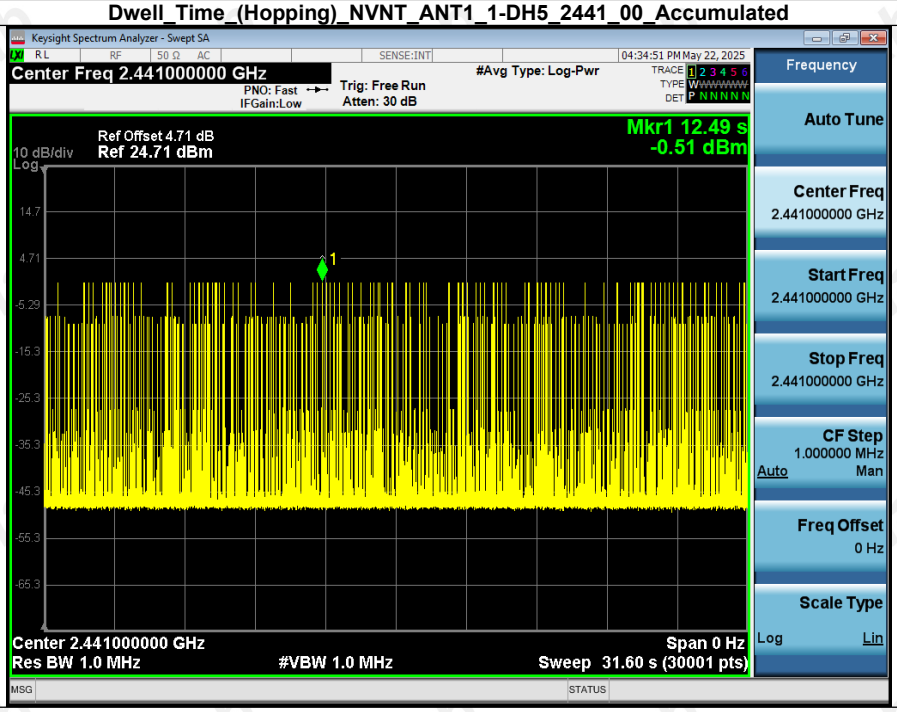
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH3_2441_00_Accumulated



Dwell_Time_(Hopping)_NVNT_ANT1_1-DH5_2441_00_One_Burst_Time



Dwell_Time_(Hopping)_NVNT_ANT1_1-DH5_2441_00_Accumulated



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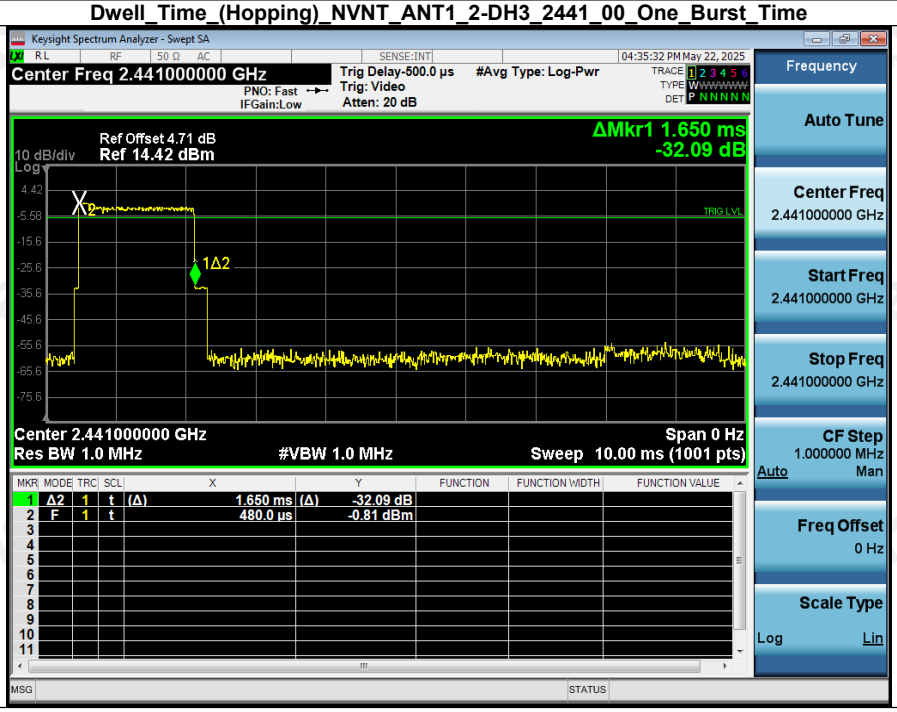

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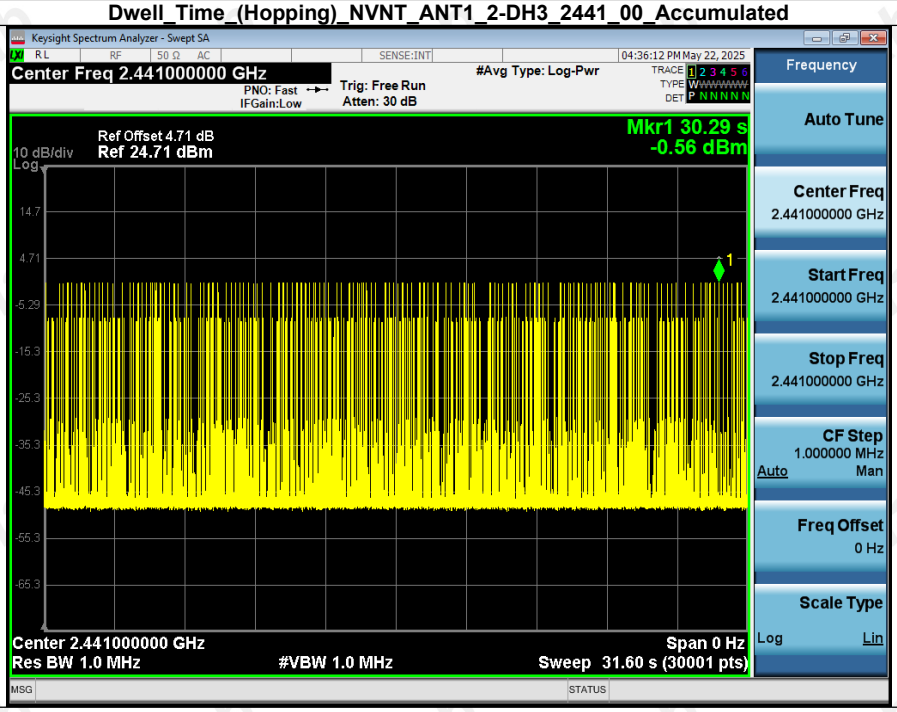

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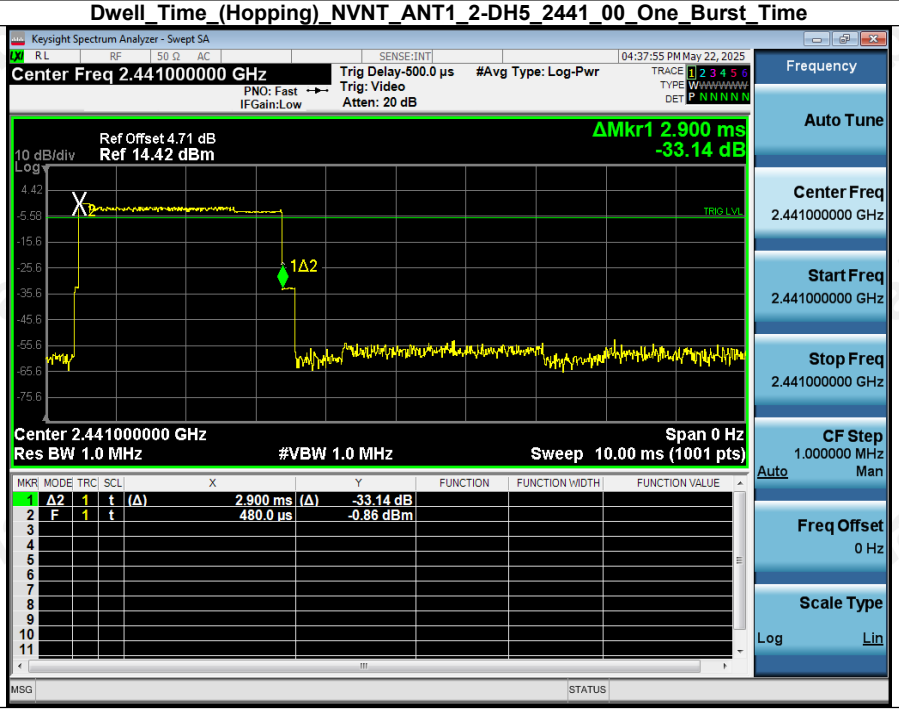

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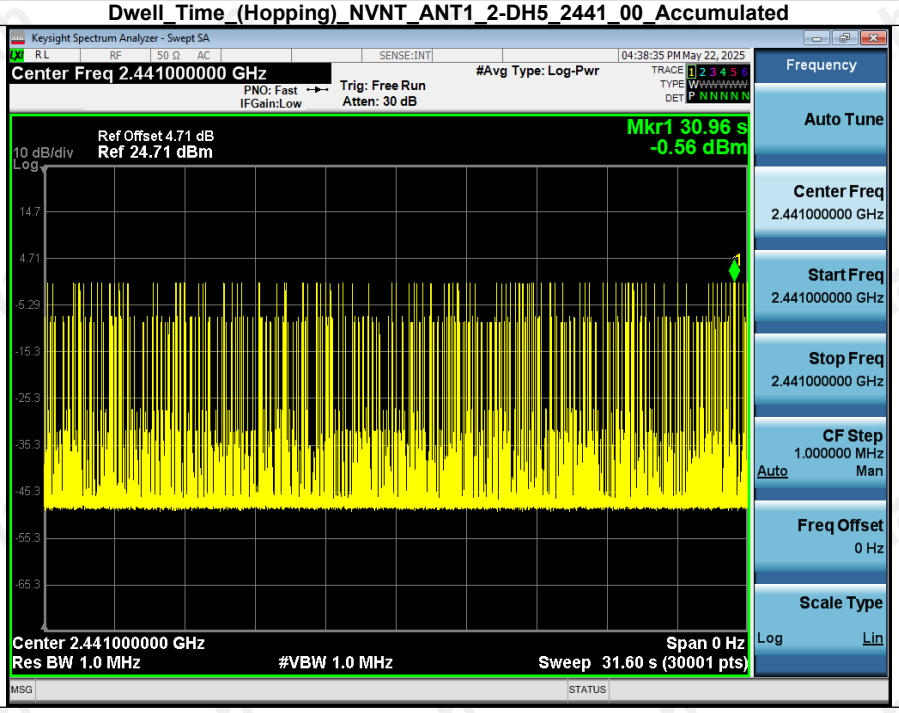

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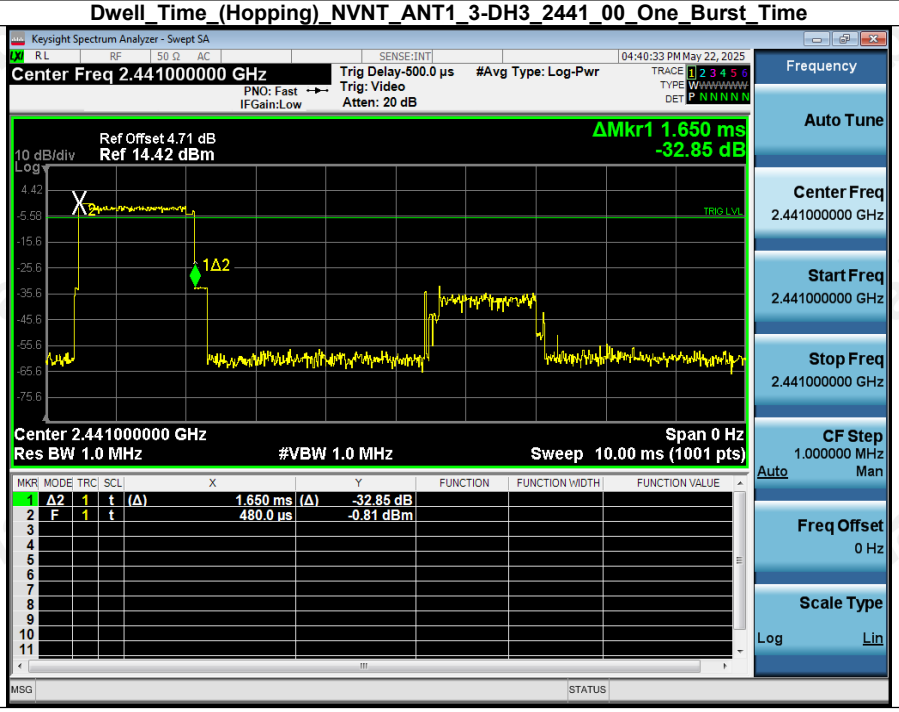

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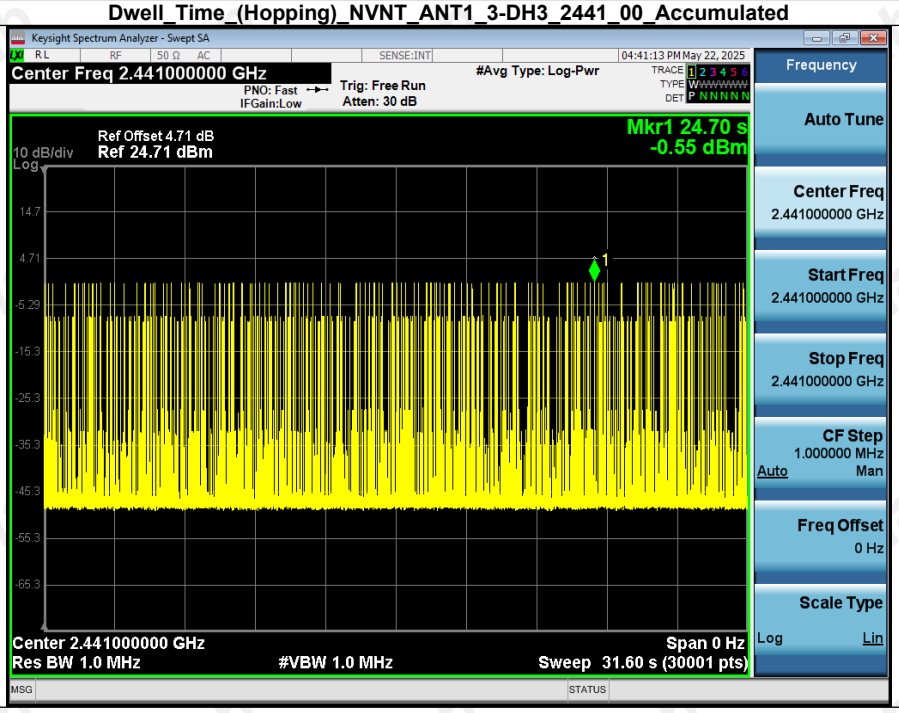

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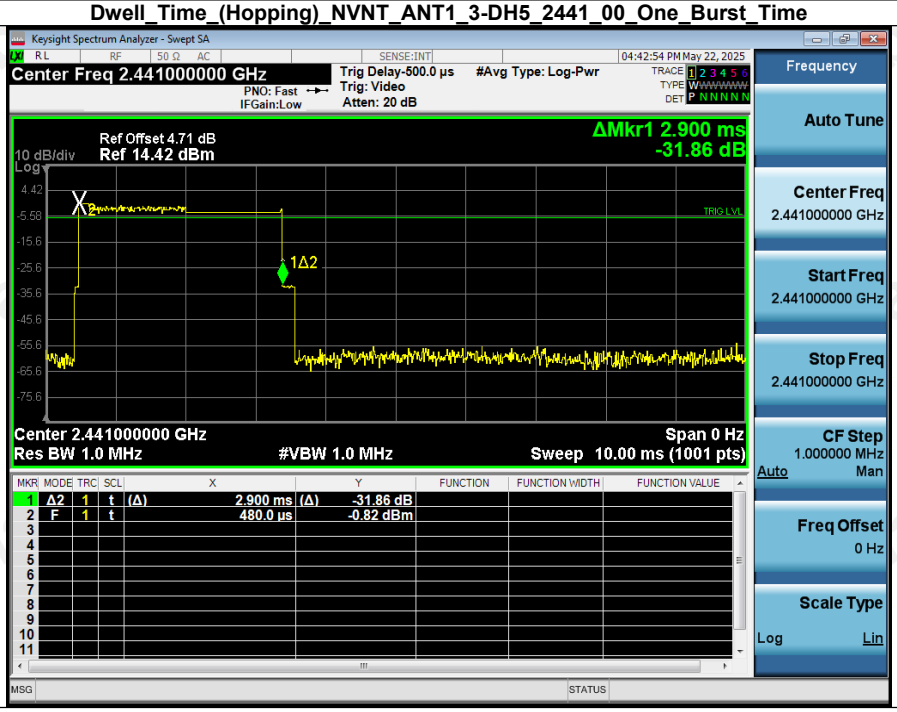
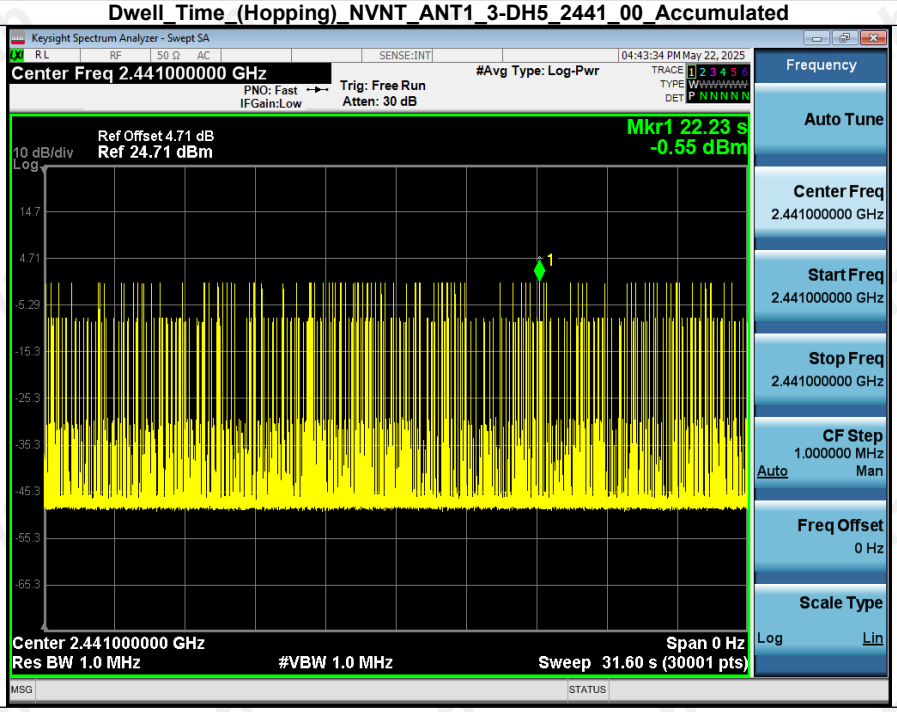
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