FCC_BT (Part15.247) Test Data
FCC ID: 2BMCW-K1-800
Report No.:NCT240472436XE1-2

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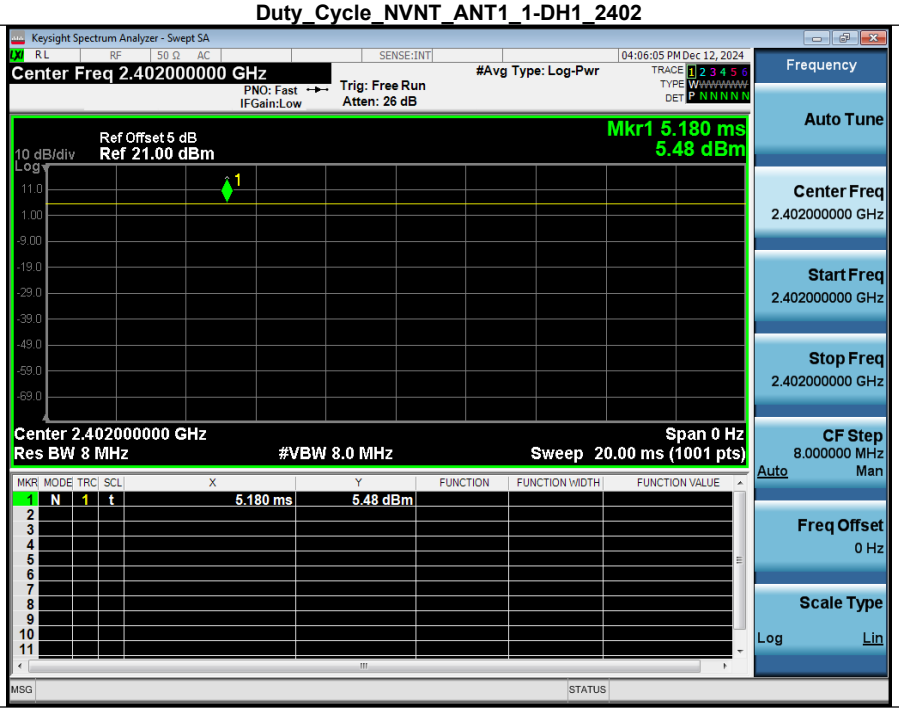
FCC ID EDR
FCC_BT (Part15.247) Test Data

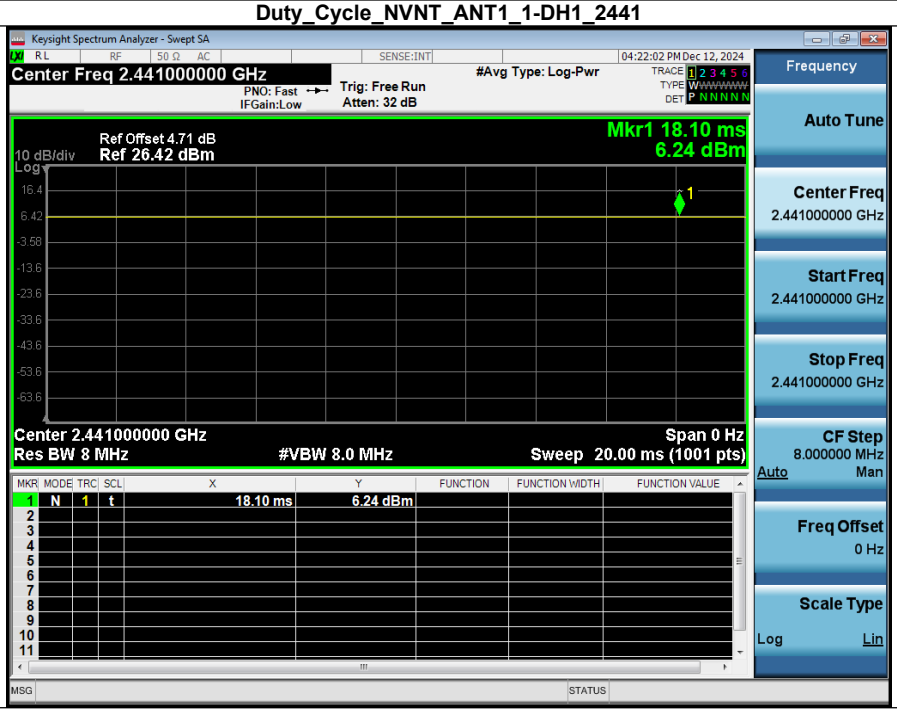
1. Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1-DH1	2402.00	100	0.00
NVNT	ANT1	1-DH1	2441.00	100	0.00
NVNT	ANT1	1-DH1	2480.00	100	0.00
NVNT	ANT1	2-DH1	2402.00	100	0.00
NVNT	ANT1	2-DH1	2441.00	100	0.00
NVNT	ANT1	2-DH1	2480.00	100	0.00
NVNT	ANT1	3-DH1	2402.00	100	0.00
NVNT	ANT1	3-DH1	2441.00	100	0.00
NVNT	ANT1	3-DH1	2480.00	100	0.00

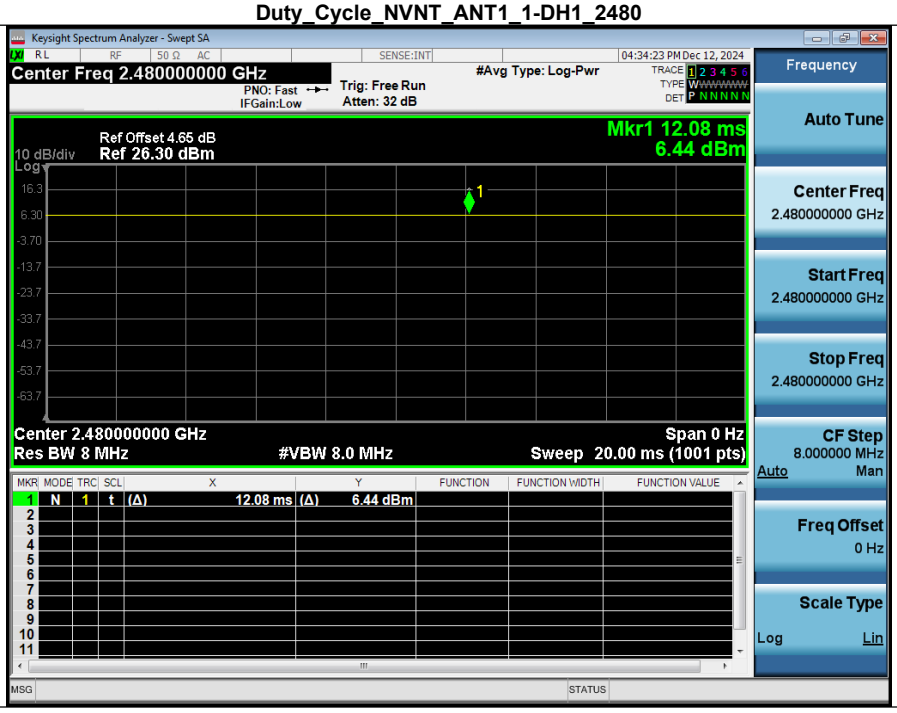
Duty_Cycle_NVNT_ANT1_1-DH1_2402



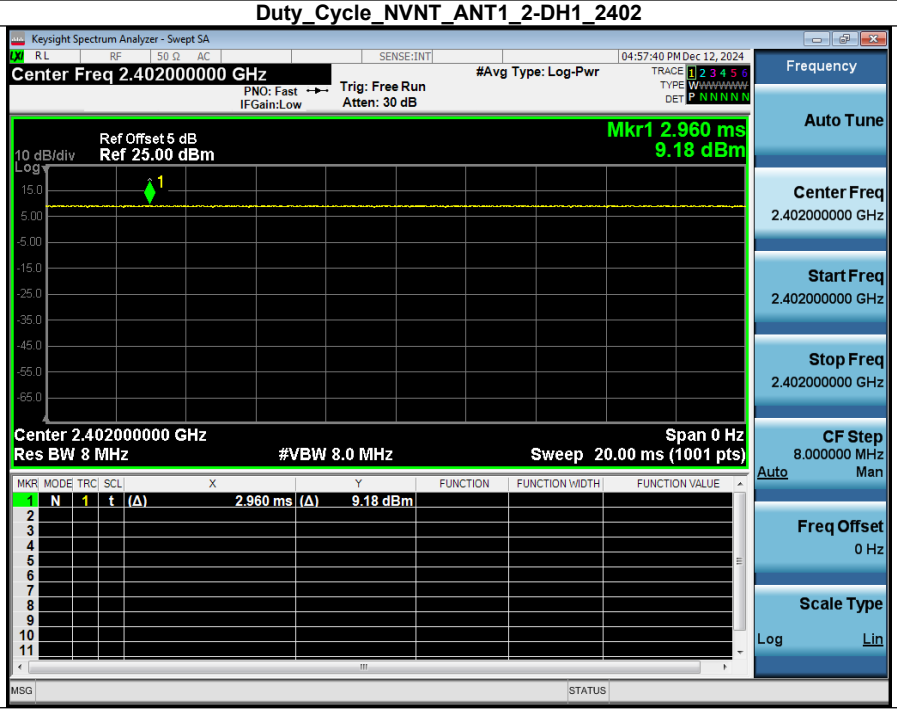
Duty_Cycle_NVNT_ANT1_1-DH1_2441



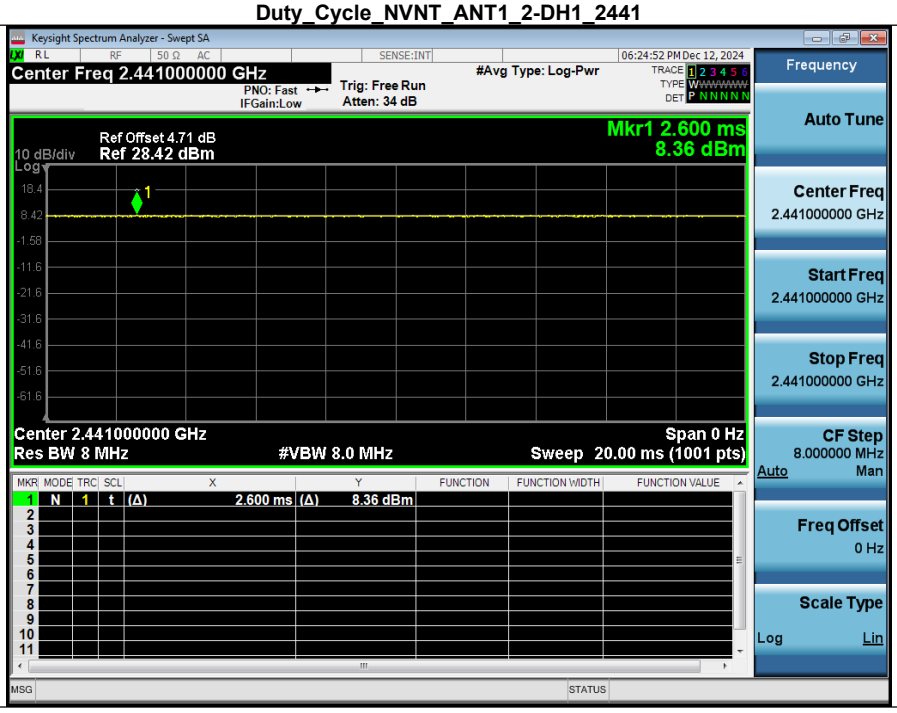
Duty_Cycle_NVNT_ANT1_1-DH1_2480



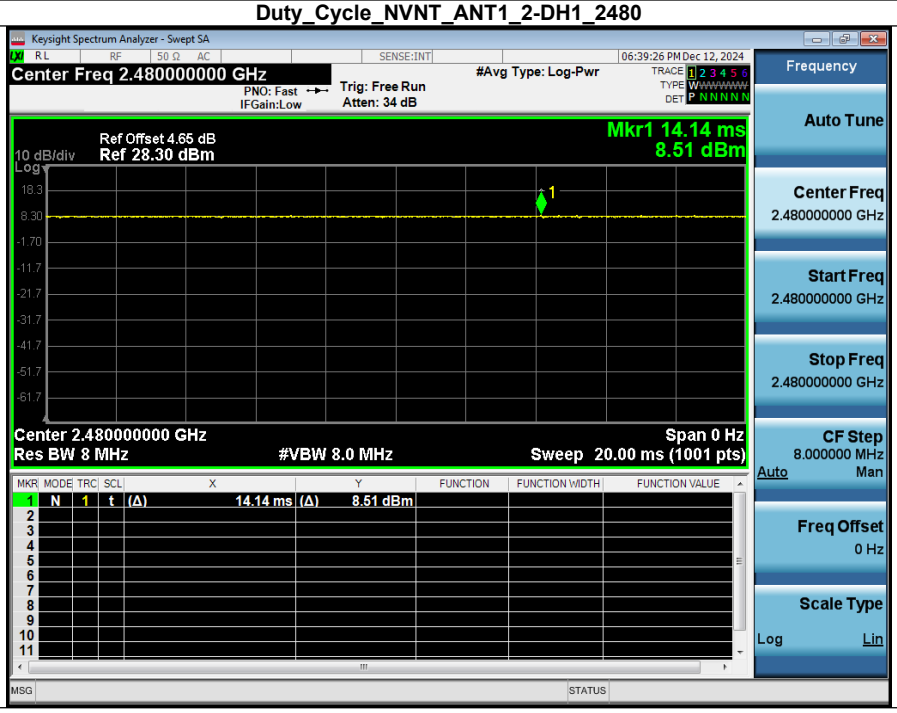
Duty_Cycle_NVNT_ANT1_2-DH1_2402



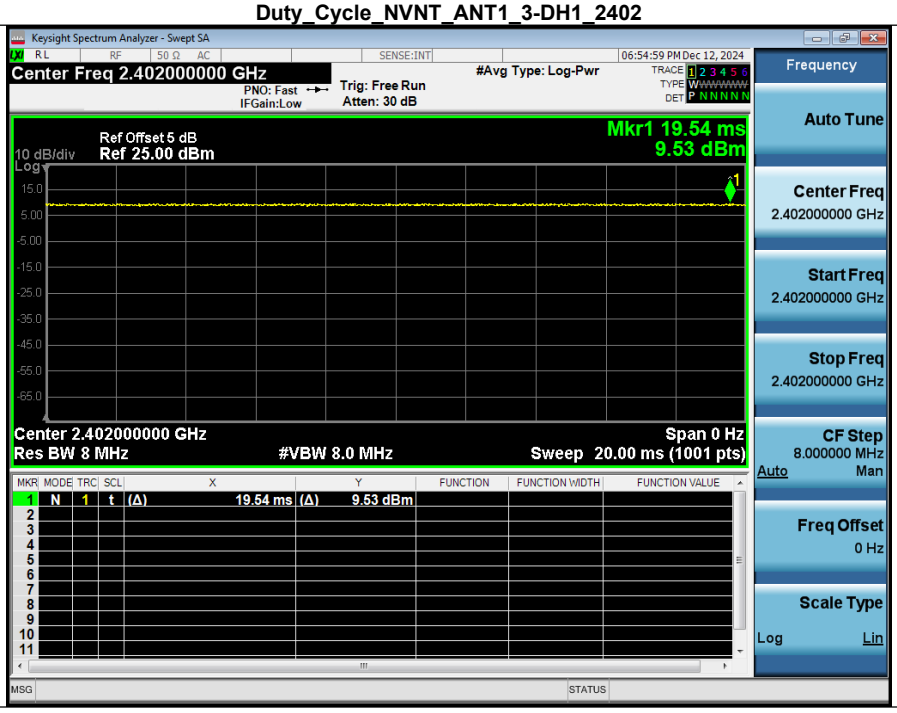
Duty_Cycle_NVNT_ANT1_2-DH1_2441



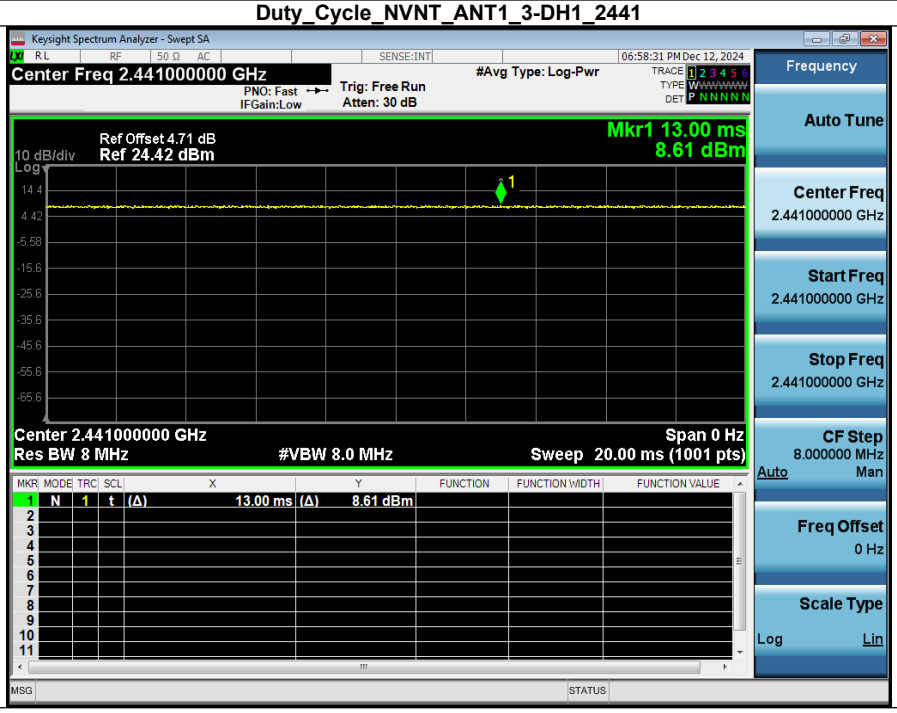
Duty_Cycle_NVNT_ANT1_2-DH1_2480



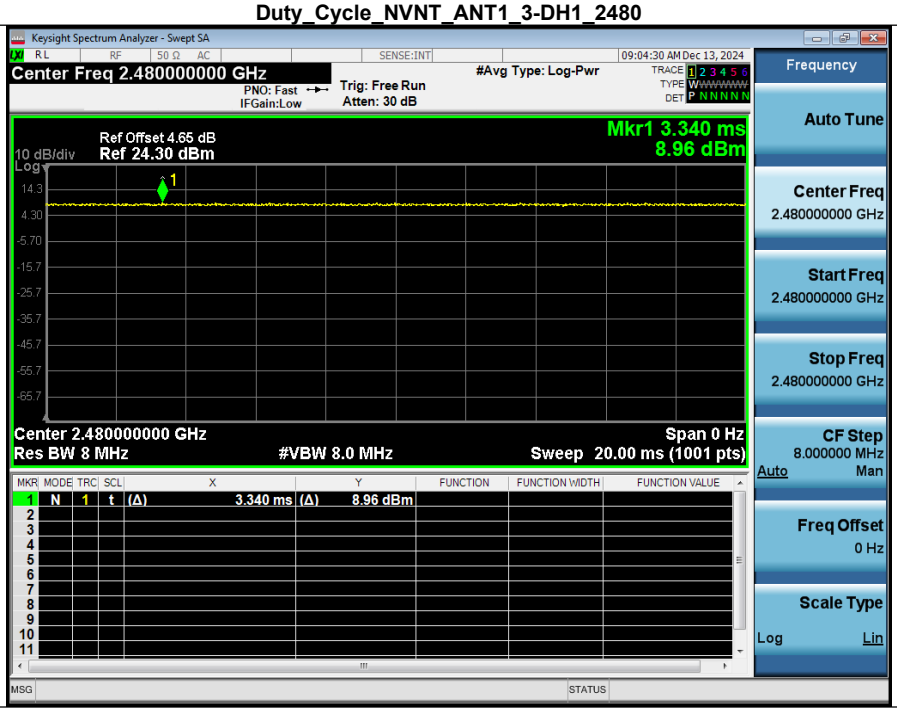
Duty_Cycle_NVNT_ANT1_3-DH1_2402



Duty_Cycle_NVNT_ANT1_3-DH1_2441



Duty_Cycle_NVNT_ANT1_3-DH1_2480

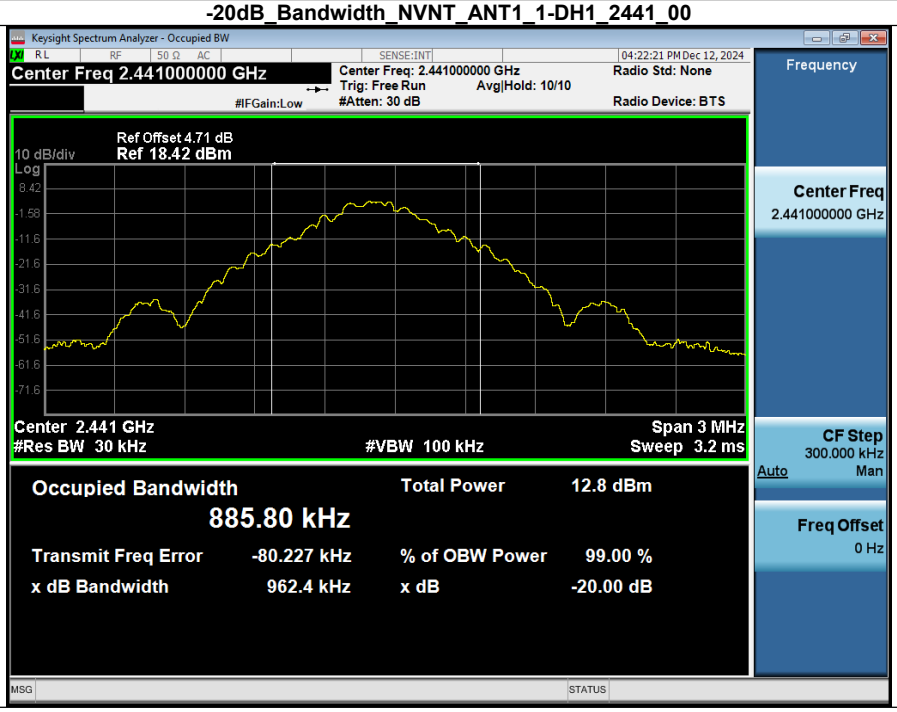


2. -20dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH1	2402.00	0.964	No
NVNT	ANT1	1-DH1	2441.00	0.962	No
NVNT	ANT1	1-DH1	2480.00	0.963	No
NVNT	ANT1	2-DH1	2402.00	1.375	Yes
NVNT	ANT1	2-DH1	2441.00	1.373	Yes
NVNT	ANT1	2-DH1	2480.00	1.371	Yes
NVNT	ANT1	3-DH1	2402.00	1.353	Yes
NVNT	ANT1	3-DH1	2441.00	1.353	Yes
NVNT	ANT1	3-DH1	2480.00	1.351	Yes

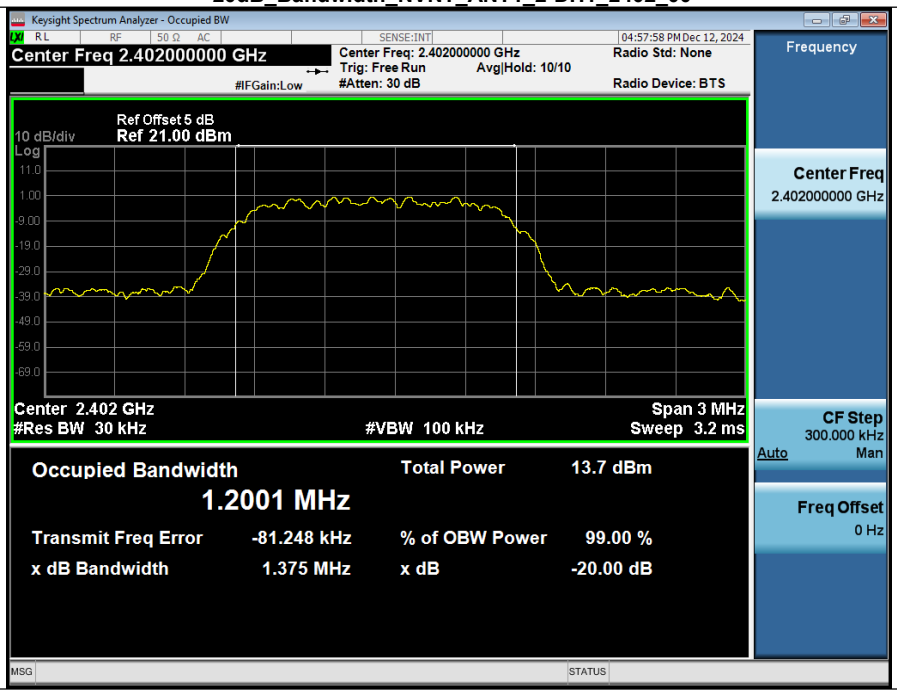
-20dB_Bandwidth_NVNT_ANT1_1-DH1_2402_00

-20dB_Bandwidth_NVNT_ANT1_1-DH1_2441_00

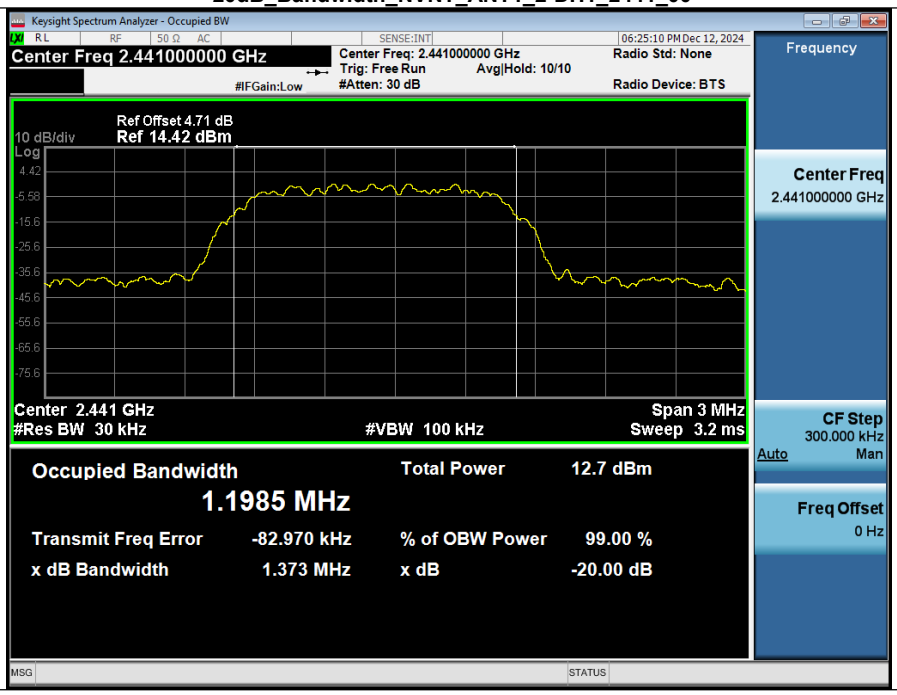


-20dB_Bandwidth_NVNT_ANT1_1-DH1_2480_00

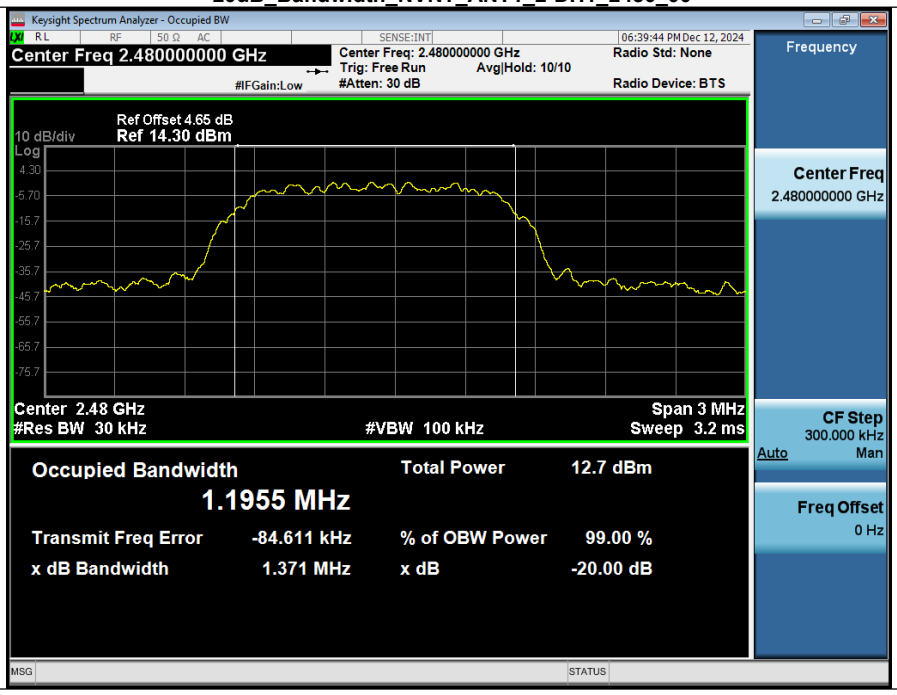
-20dB_Bandwidth_NVNT_ANT1_2-DH1_2402_00



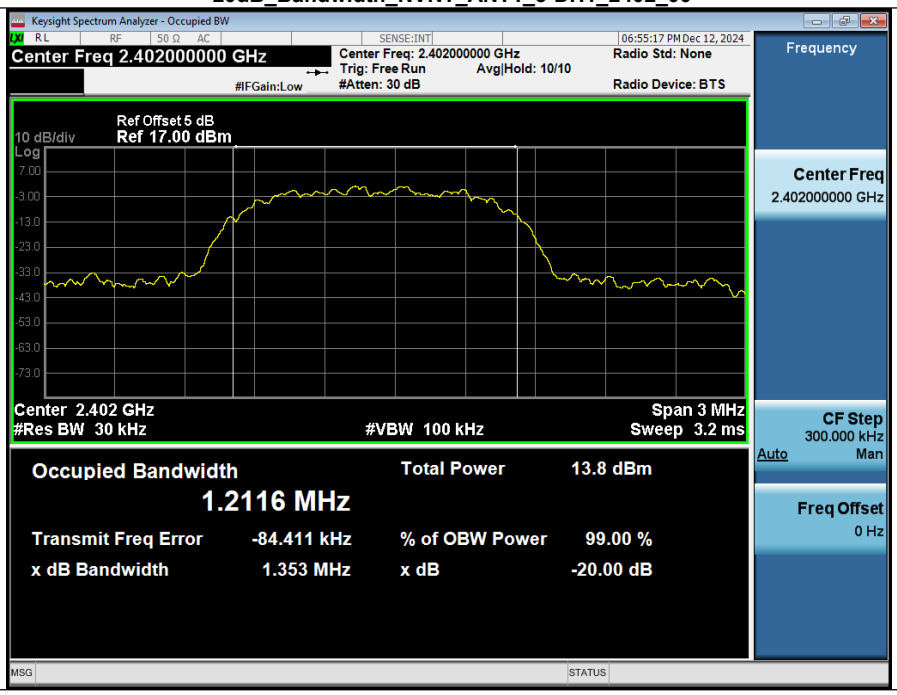
-20dB_Bandwidth_NVNT_ANT1_2-DH1_2441_00



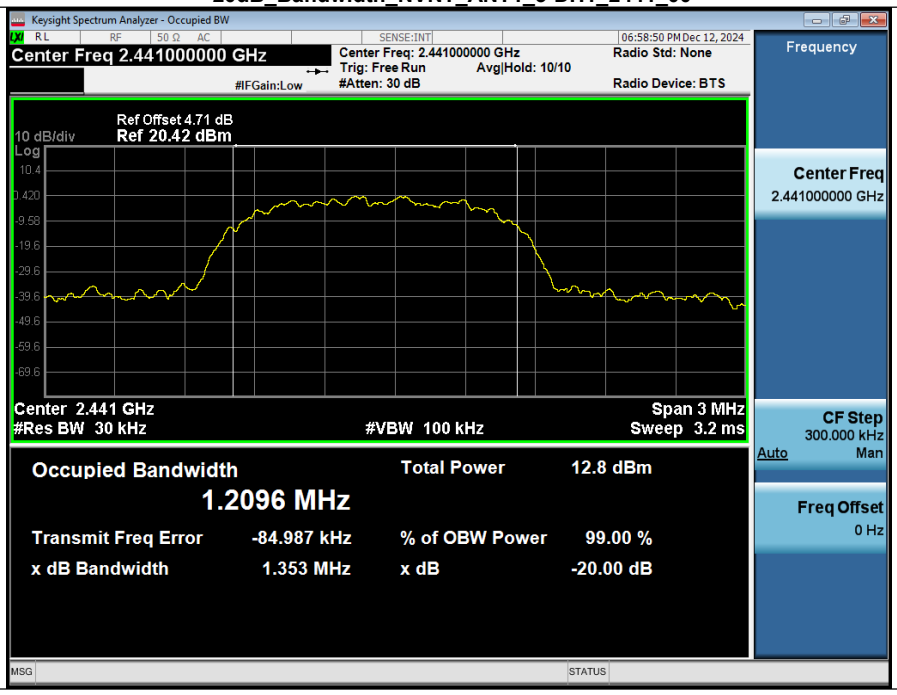
-20dB_Bandwidth_NVNT_ANT1_2-DH1_2480_00



-20dB_Bandwidth_NVNT_ANT1_3-DH1_2402_00



-20dB_Bandwidth_NVNT_ANT1_3-DH1_2441_00

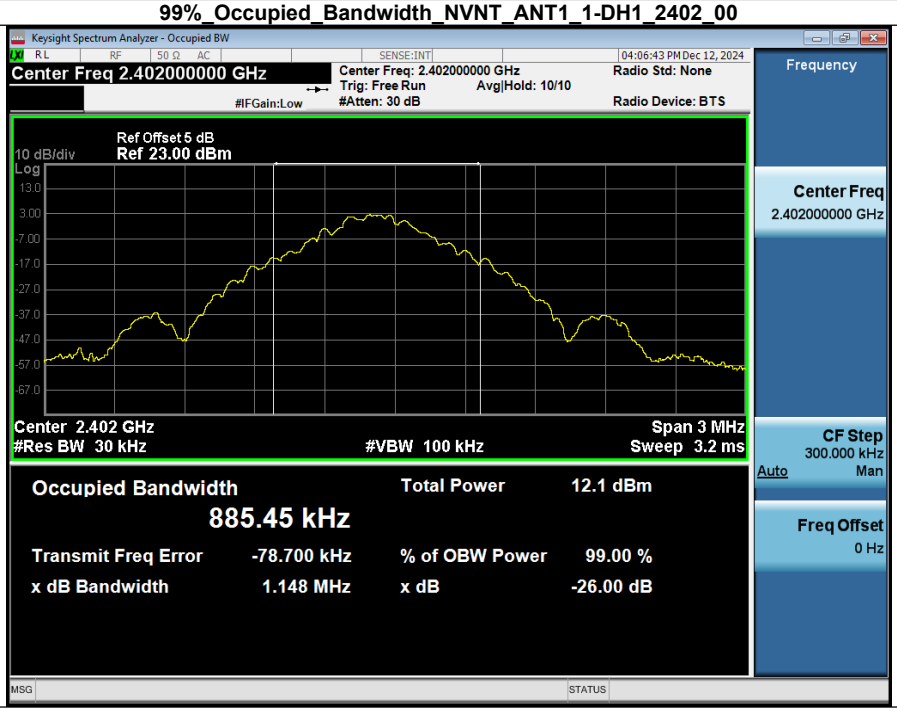


-20dB_Bandwidth_NVNT_ANT1_3-DH1_2480_00

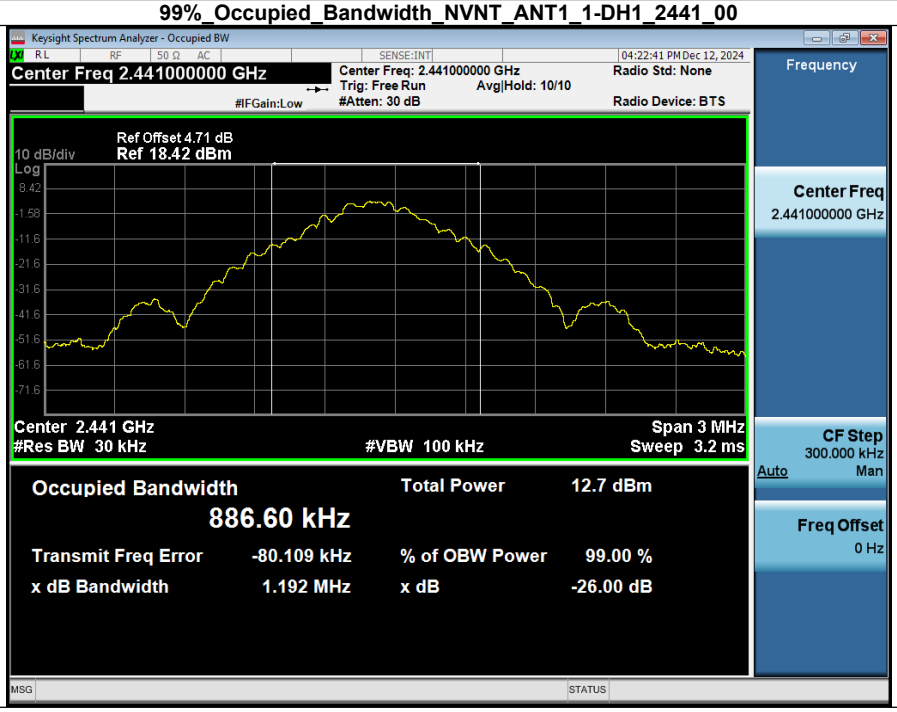
3. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	1-DH1	2402.00	0.885
NVNT	ANT1	1-DH1	2441.00	0.887
NVNT	ANT1	1-DH1	2480.00	0.887
NVNT	ANT1	2-DH1	2402.00	1.200
NVNT	ANT1	2-DH1	2441.00	1.198
NVNT	ANT1	2-DH1	2480.00	1.196
NVNT	ANT1	3-DH1	2402.00	1.212
NVNT	ANT1	3-DH1	2441.00	1.210
NVNT	ANT1	3-DH1	2480.00	1.206

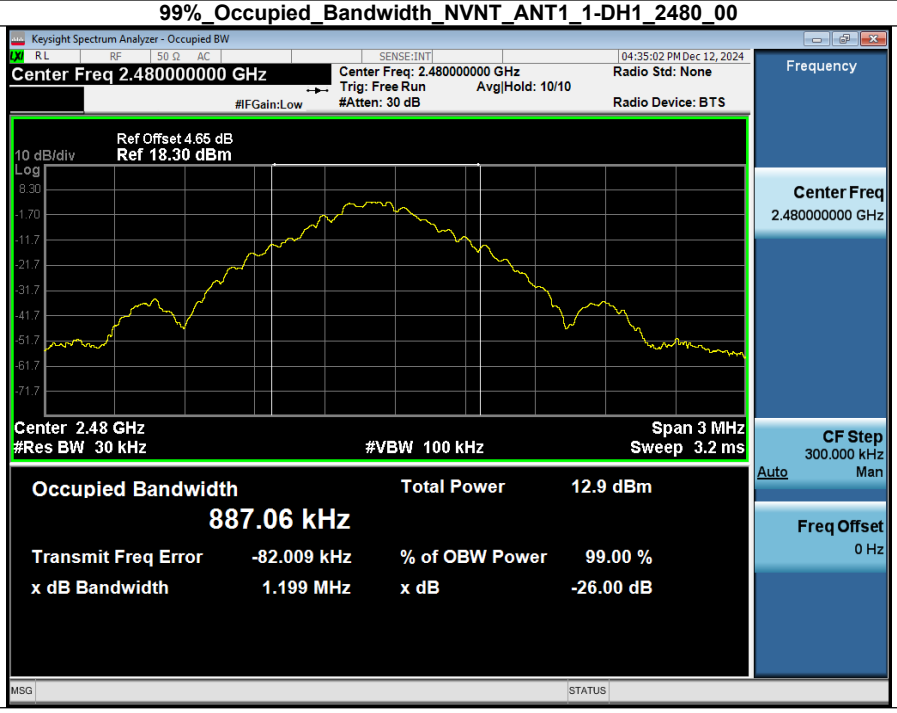
99%_Occupied_Bandwidth_NVNT_ANT1_1-DH1_2402_00



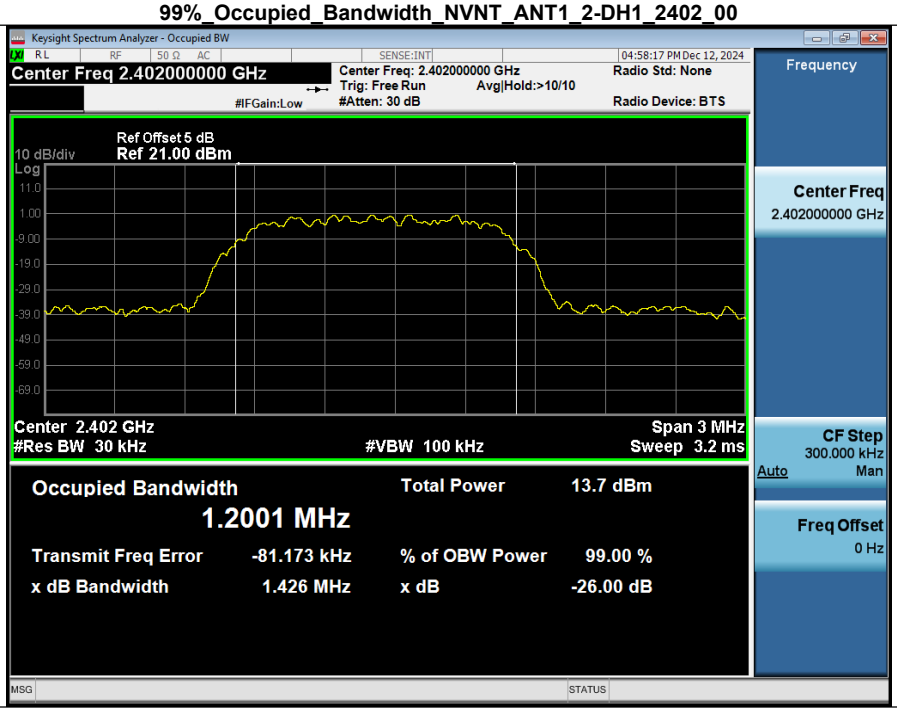
99%_Occupied_Bandwidth_NVNT_ANT1_1-DH1_2441_00



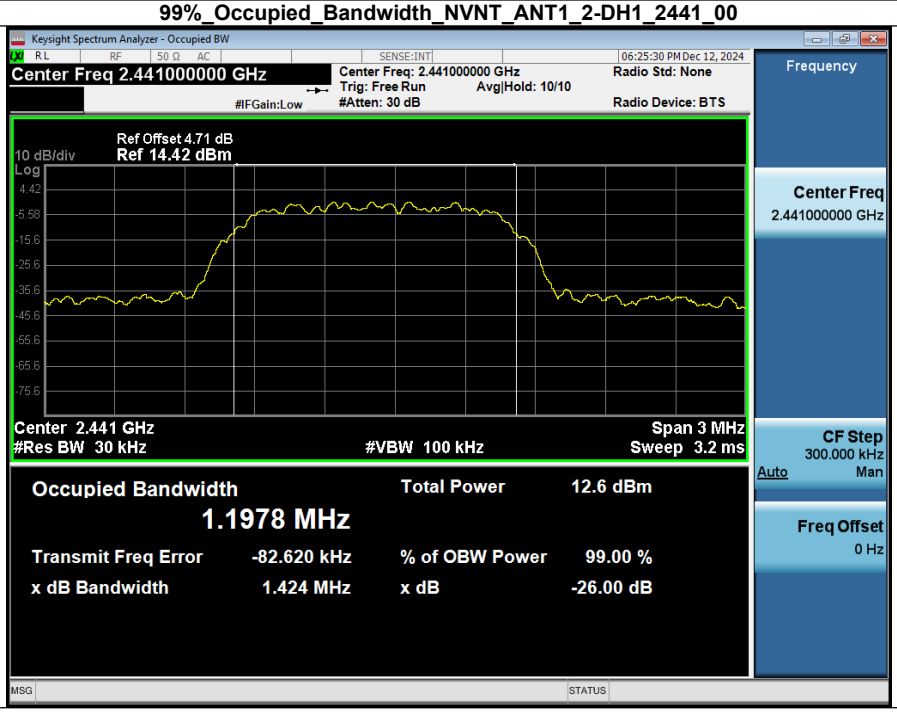
99%_Occupied_Bandwidth_NVNT_ANT1_1-DH1_2480_00



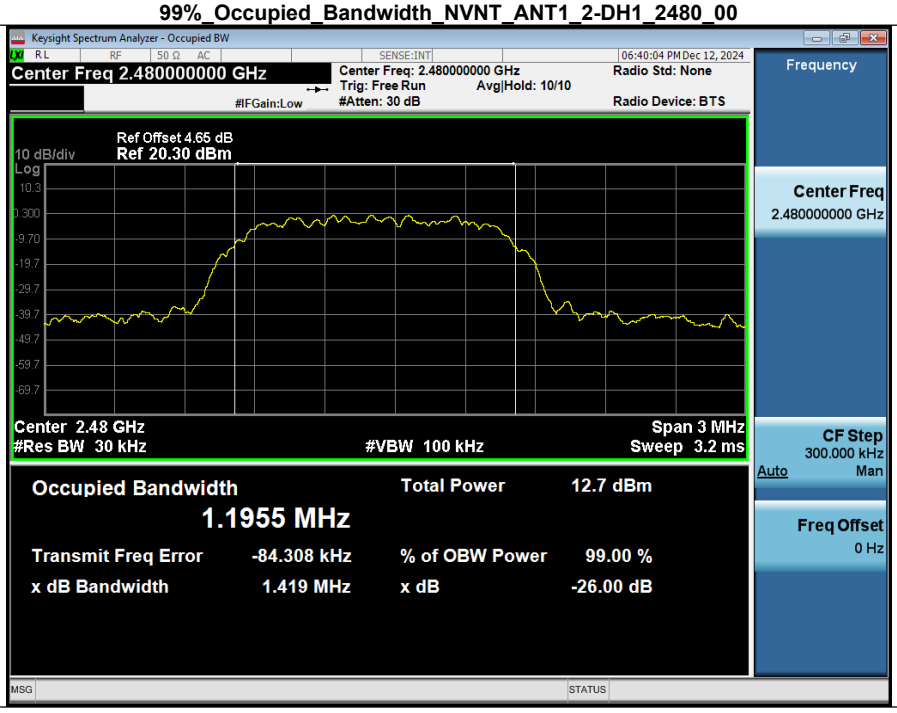
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH1_2402_00



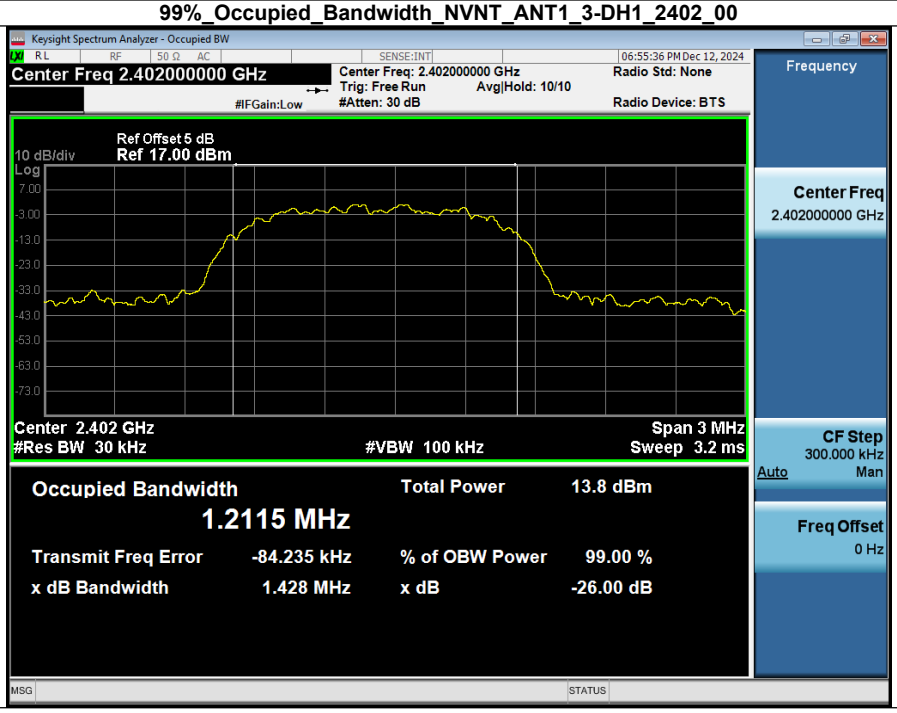
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH1_2441_00



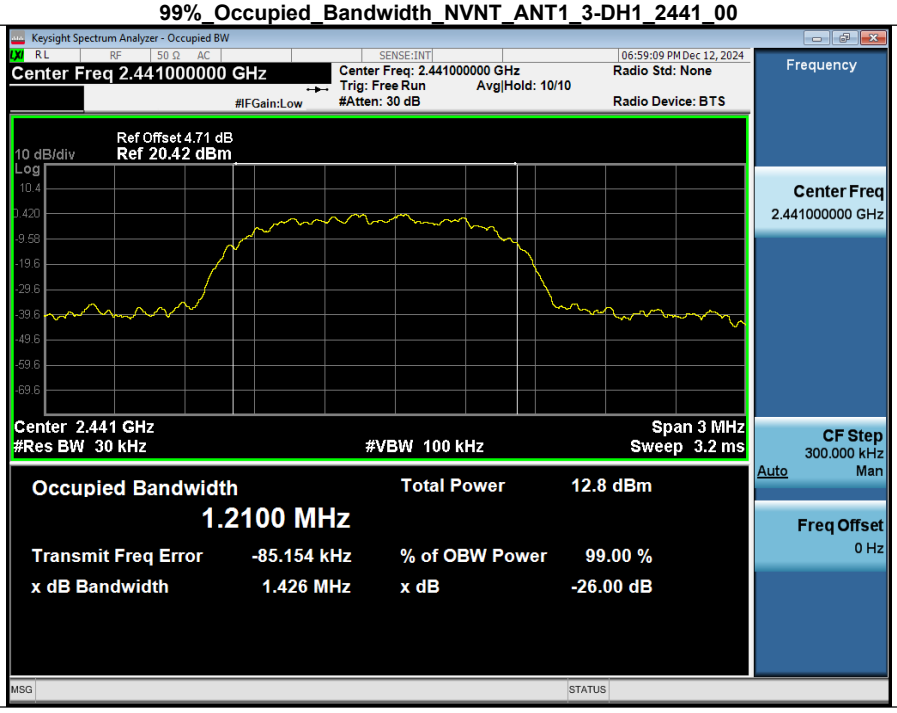
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH1_2480_00



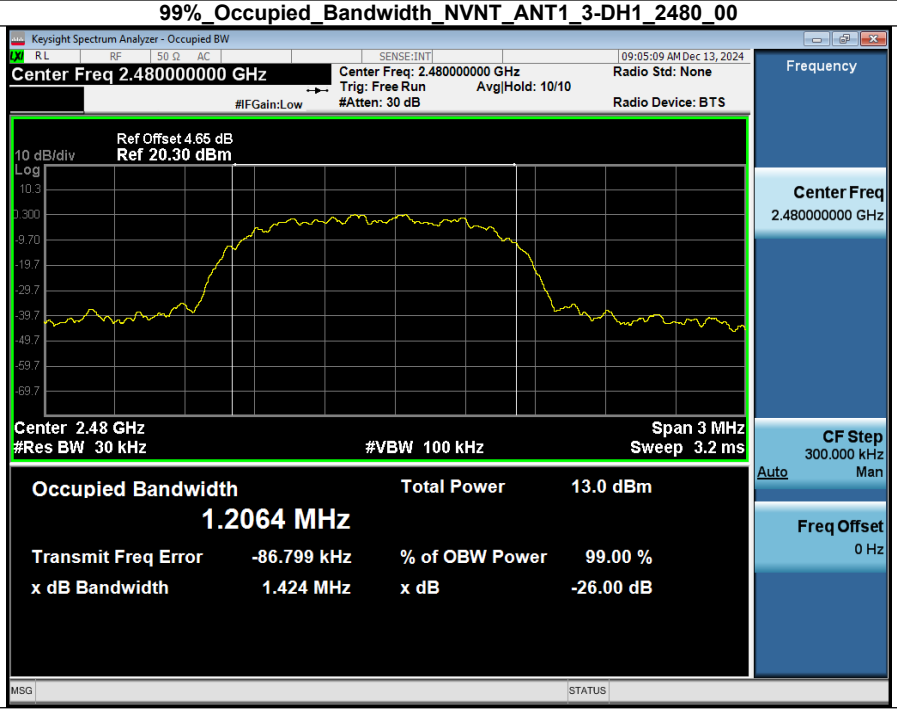
99%_Occupied_Bandwidth_NVNT_ANT1_3-DH1_2402_00



99%_Occupied_Bandwidth_NVNT_ANT1_3-DH1_2441_00



99%_Occupied_Bandwidth_NVNT_ANT1_3-DH1_2480_00



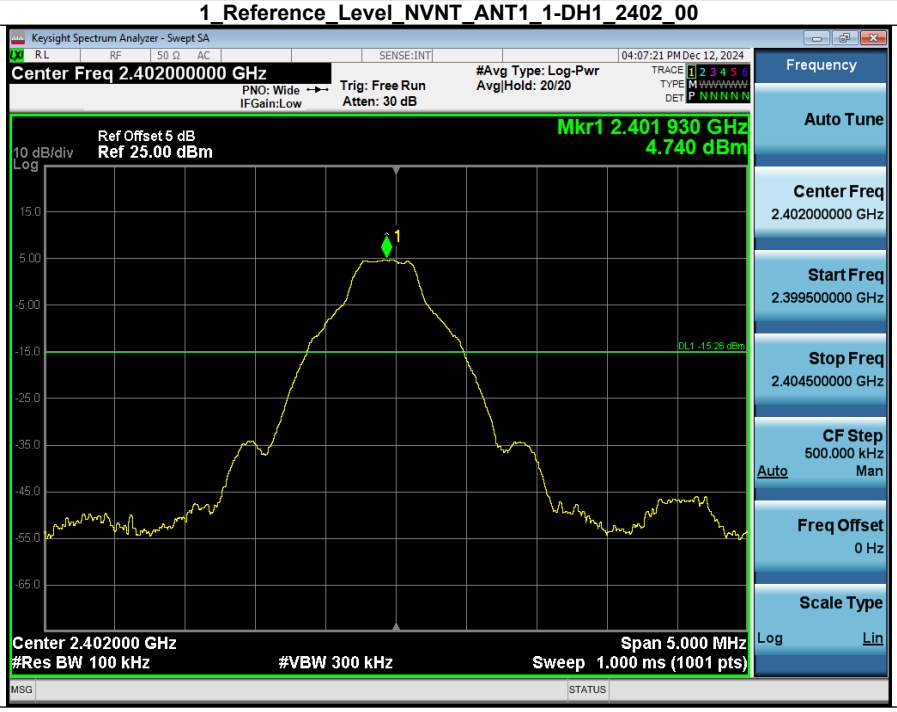
4. Peak Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1-DH1	2402.00	5.31	3.40	1000	Pass
NVNT	ANT1	1-DH1	2441.00	6.06	4.03	1000	Pass
NVNT	ANT1	1-DH1	2480.00	6.25	4.21	1000	Pass
NVNT	ANT1	2-DH1	2402.00	9.24	8.39	125	Pass
NVNT	ANT1	2-DH1	2441.00	8.28	6.72	125	Pass
NVNT	ANT1	2-DH1	2480.00	8.43	6.96	125	Pass
NVNT	ANT1	3-DH1	2402.00	9.52	8.95	125	Pass
NVNT	ANT1	3-DH1	2441.00	8.68	7.38	125	Pass
NVNT	ANT1	3-DH1	2480.00	8.87	7.70	125	Pass

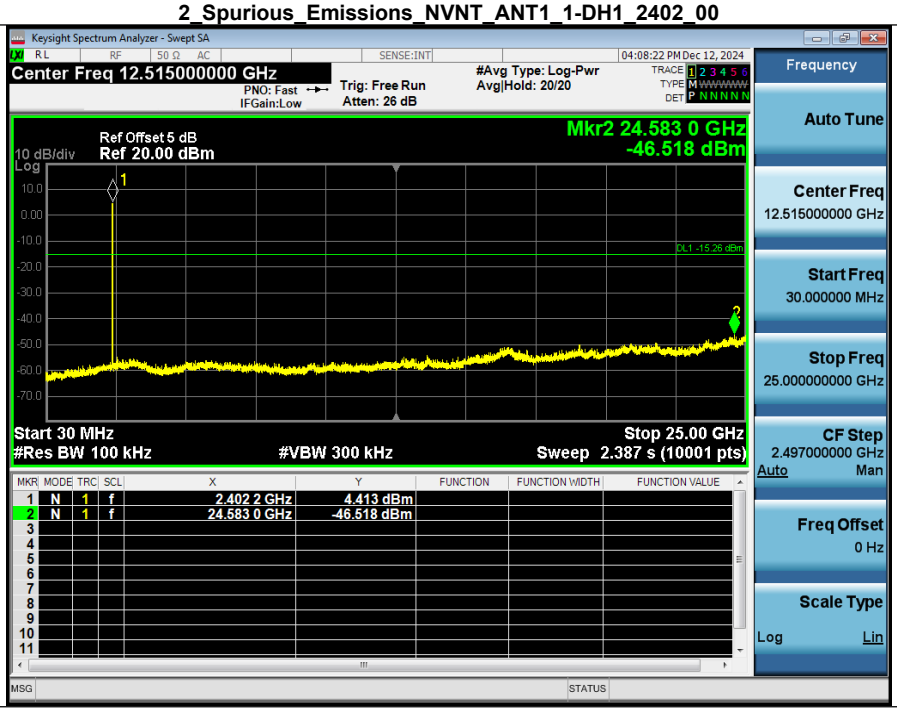
5. Spurious Emissions

Condition	Antenna	Modulation	TX Mode	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH1	2402.00	-46.518	-15.260	Pass
NVNT	ANT1	1-DH1	2441.00	-50.566	-14.574	Pass
NVNT	ANT1	1-DH1	2480.00	-50.475	-14.438	Pass
NVNT	ANT1	2-DH1	2402.00	-50.332	-14.642	Pass
NVNT	ANT1	2-DH1	2441.00	-46.300	-15.825	Pass
NVNT	ANT1	2-DH1	2480.00	-46.455	-15.596	Pass
NVNT	ANT1	3-DH1	2402.00	-50.230	-14.797	Pass
NVNT	ANT1	3-DH1	2441.00	-46.203	-15.773	Pass
NVNT	ANT1	3-DH1	2480.00	-46.456	-15.661	Pass

1_Reference_Level_NVNT_ANT1_1-DH1_2402_00

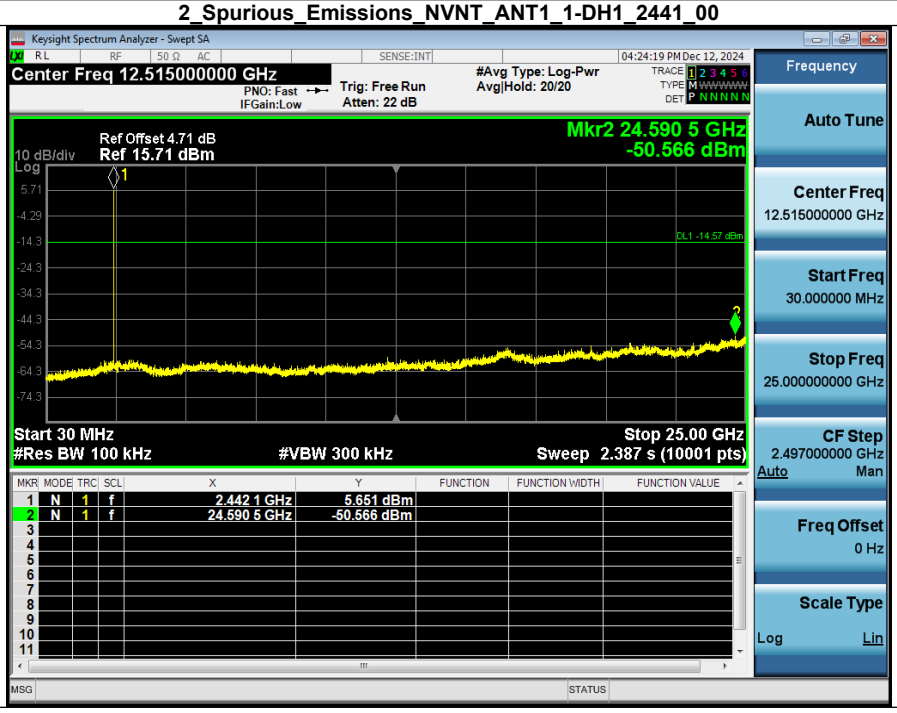


2_Spurious_Emissions_NVNT_ANT1_1-DH1_2402_00



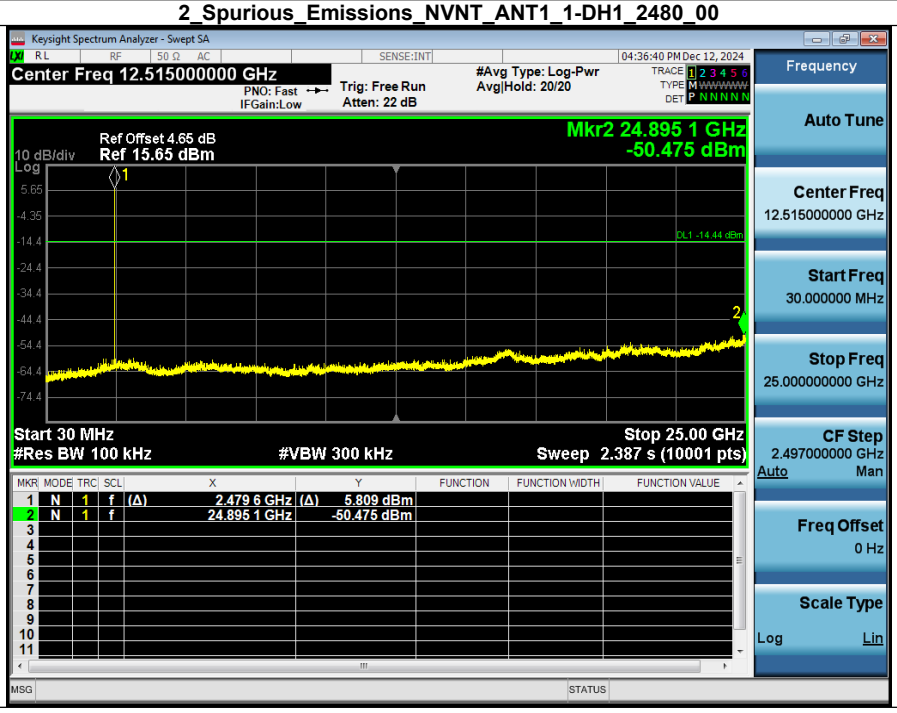
1_Reference_Level_NVNT_ANT1_1-DH1_2441_00

2_Spurious_Emissions_NVNT_ANT1_1-DH1_2441_00

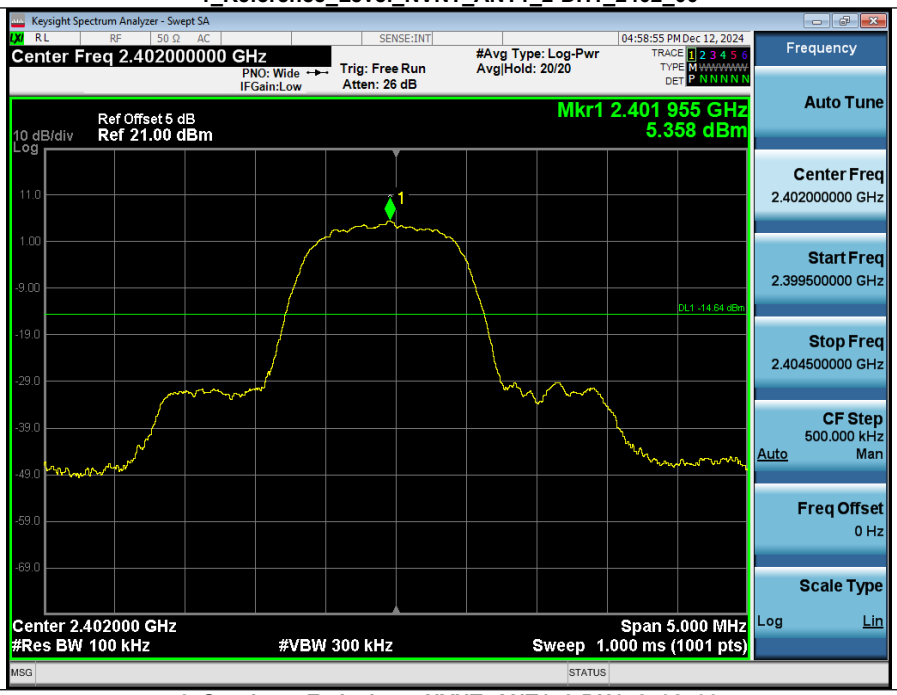


1_Reference_Level_NVNT_ANT1_1-DH1_2480_00

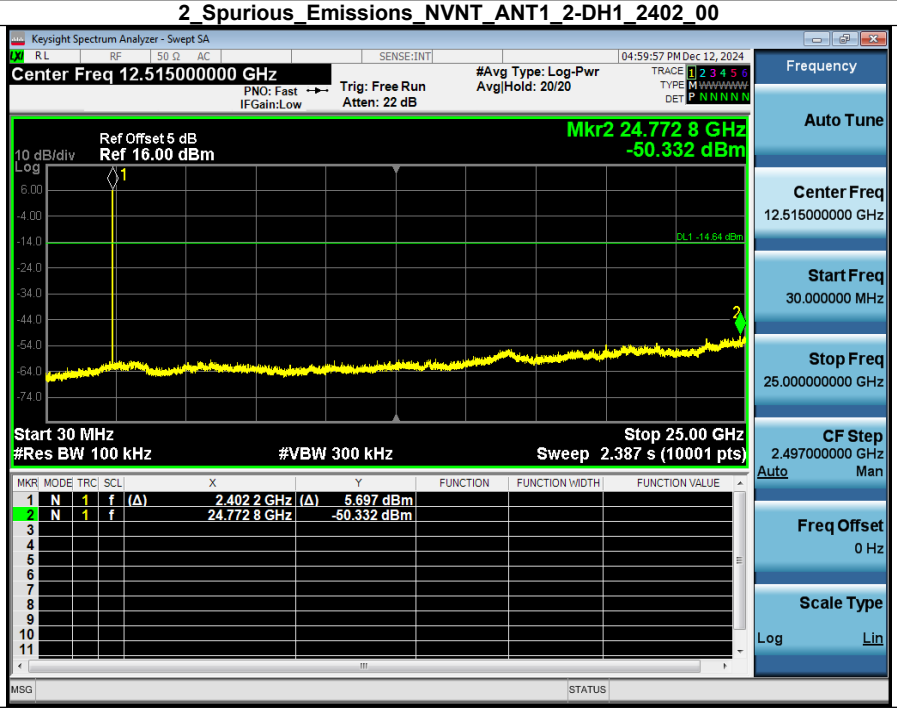
2_Spurious_Emissions_NVNT_ANT1_1-DH1_2480_00



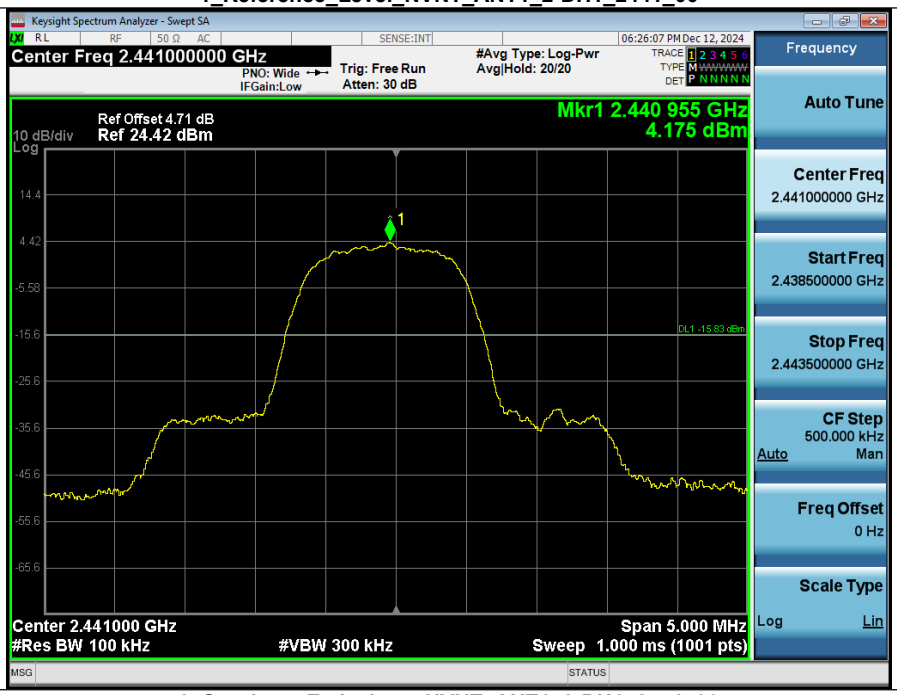
1_Reference_Level_NVNT_ANT1_2-DH1_2402_00



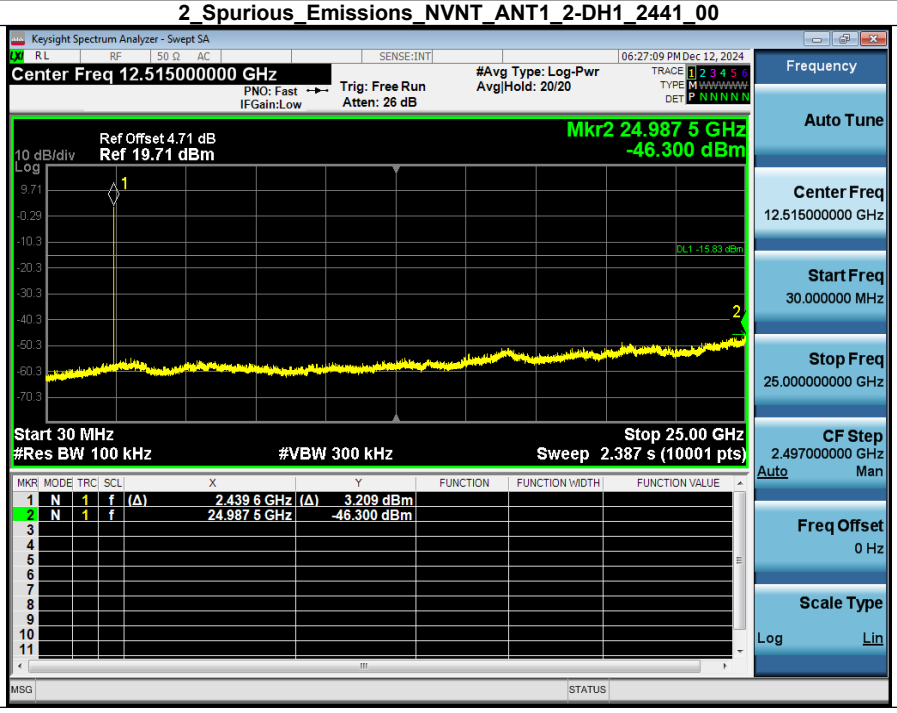
2_Spurious_Emissions_NVNT_ANT1_2-DH1_2402_00



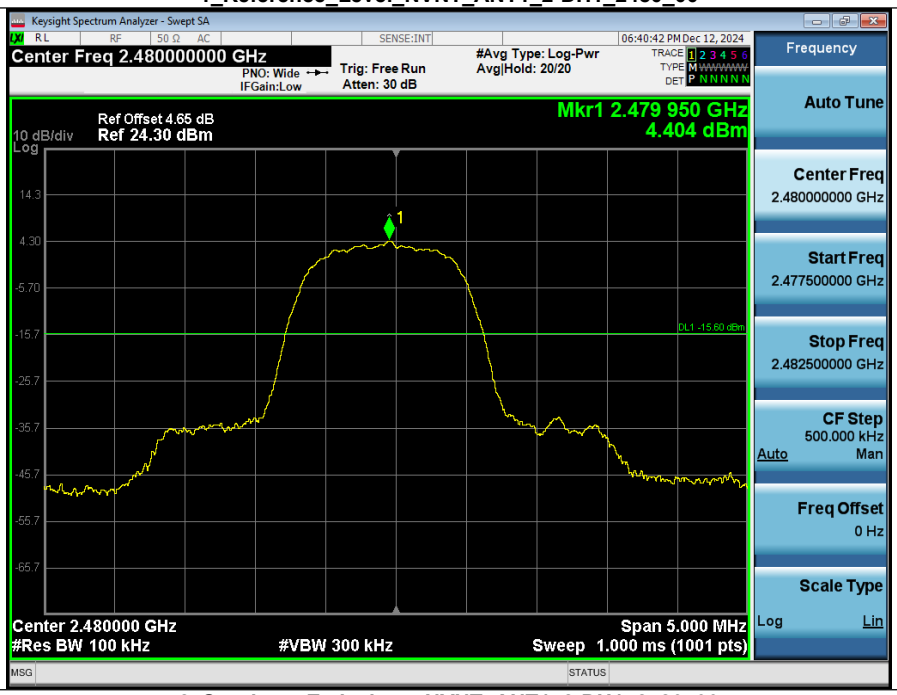
1_Reference_Level_NVNT_ANT1_2-DH1_2441_00



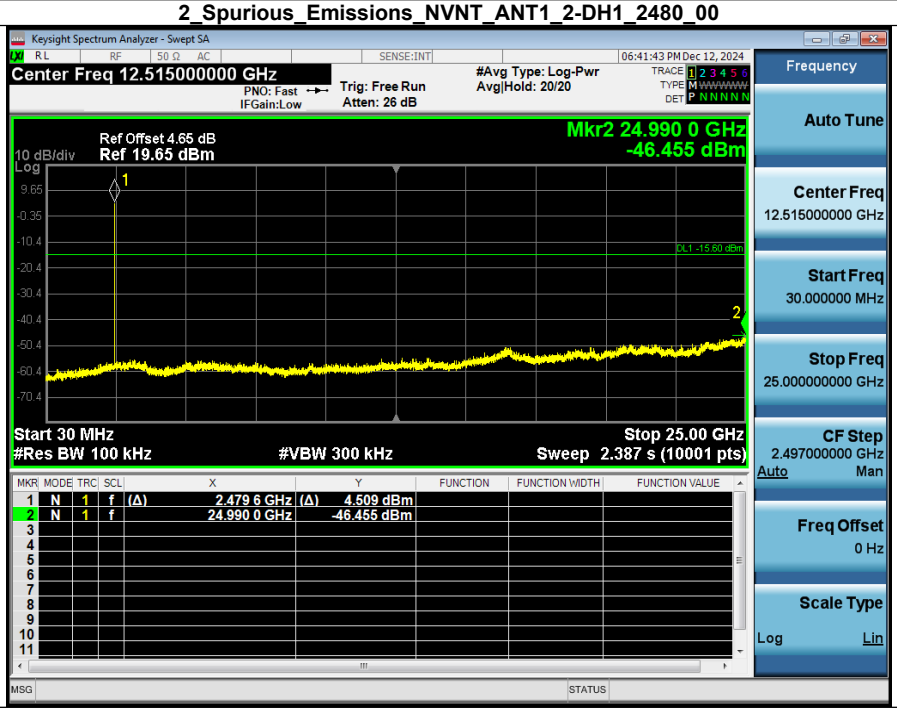
2_Spurious_Emissions_NVNT_ANT1_2-DH1_2441_00



1_Reference_Level_NVNT_ANT1_2-DH1_2480_00

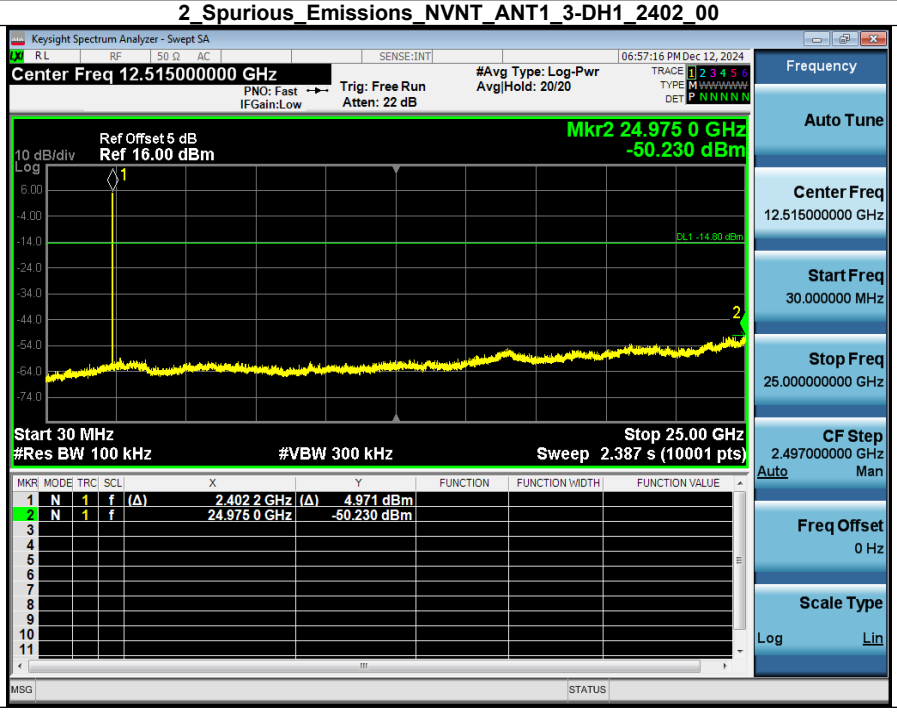


2_Spurious_Emissions_NVNT_ANT1_2-DH1_2480_00



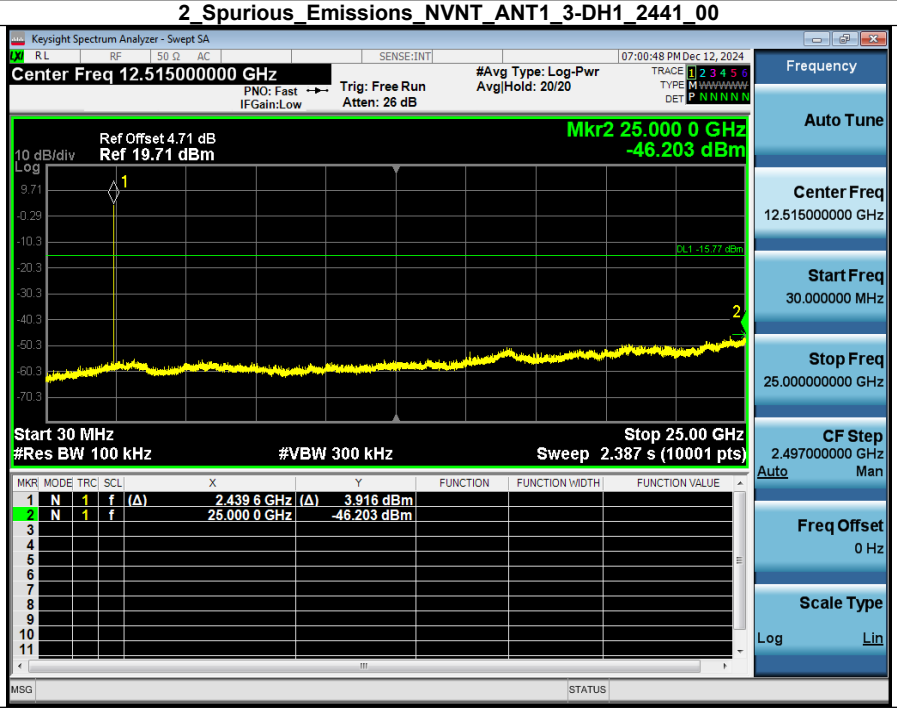
1_Reference_Level_NVNT_ANT1_3-DH1_2402_00

2_Spurious_Emissions_NVNT_ANT1_3-DH1_2402_00

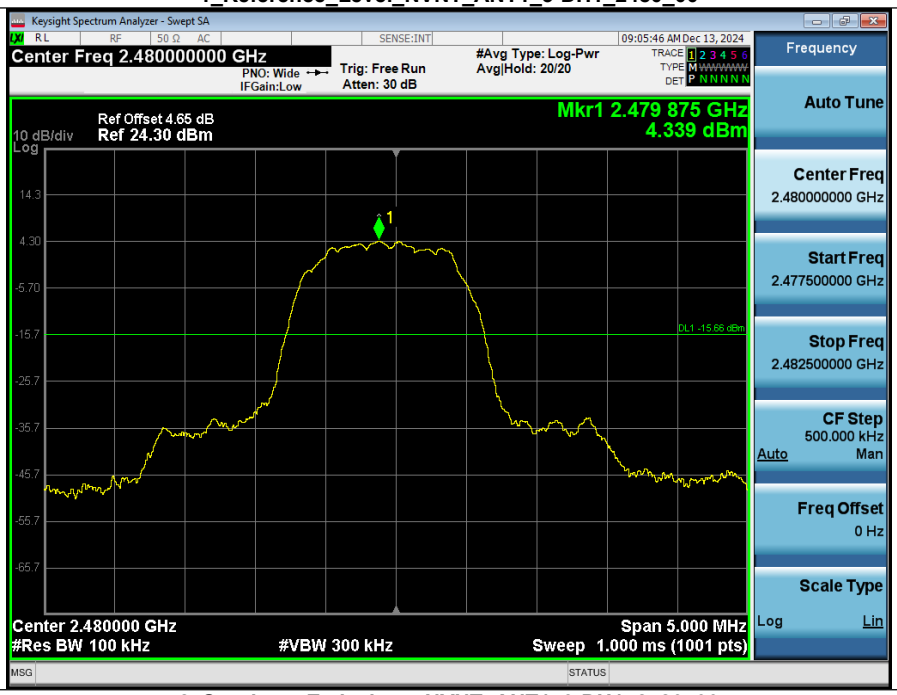


1_Reference_Level_NVNT_ANT1_3-DH1_2441_00

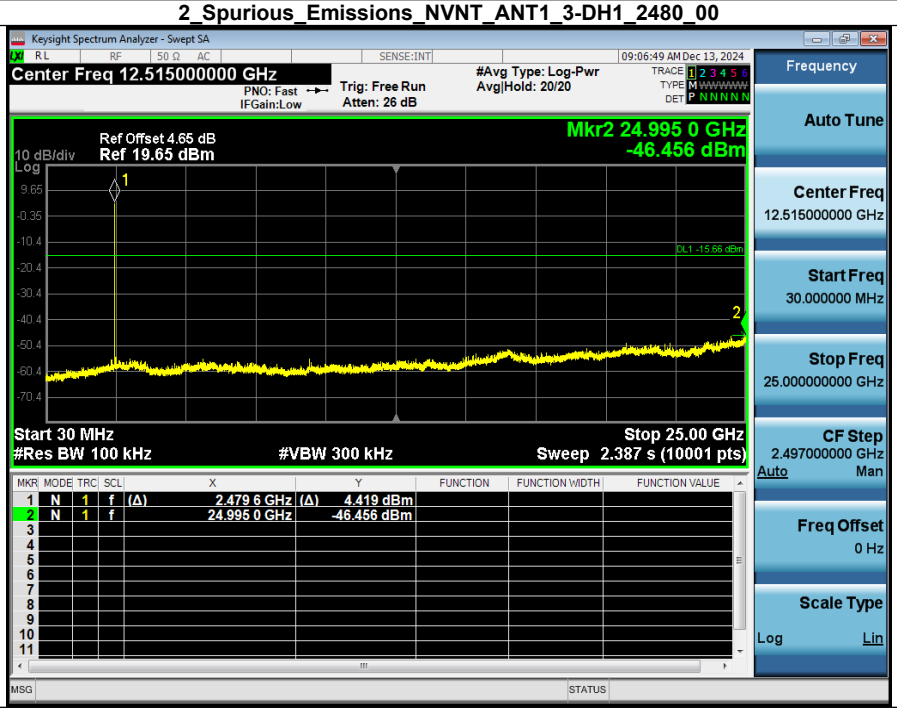
2_Spurious_Emissions_NVNT_ANT1_3-DH1_2441_00



1_Reference_Level_NVNT_ANT1_3-DH1_2480_00



2_Spurious_Emissions_NVNT_ANT1_3-DH1_2480_00

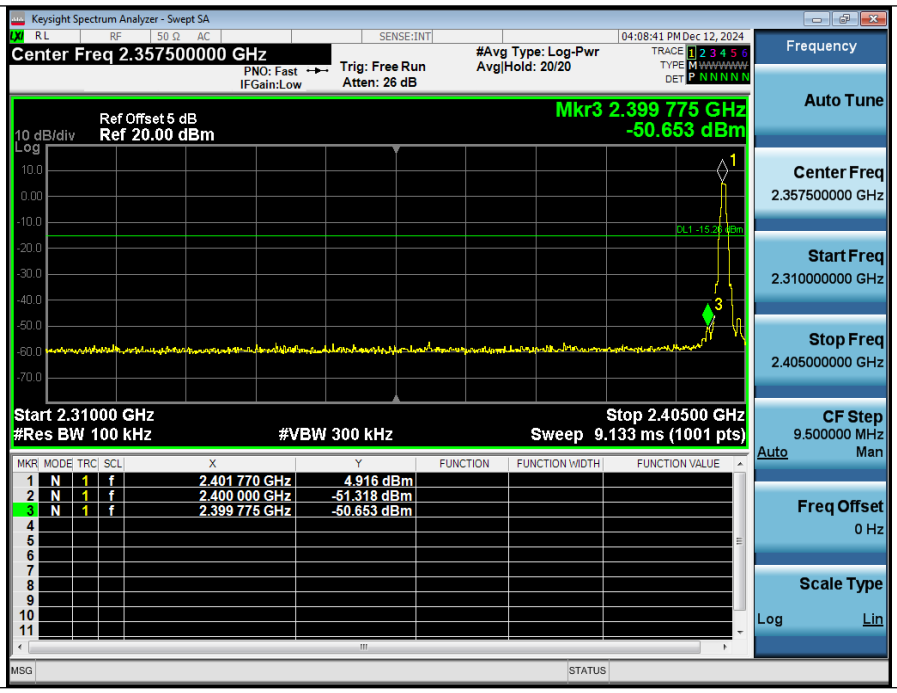


6. Bandedge

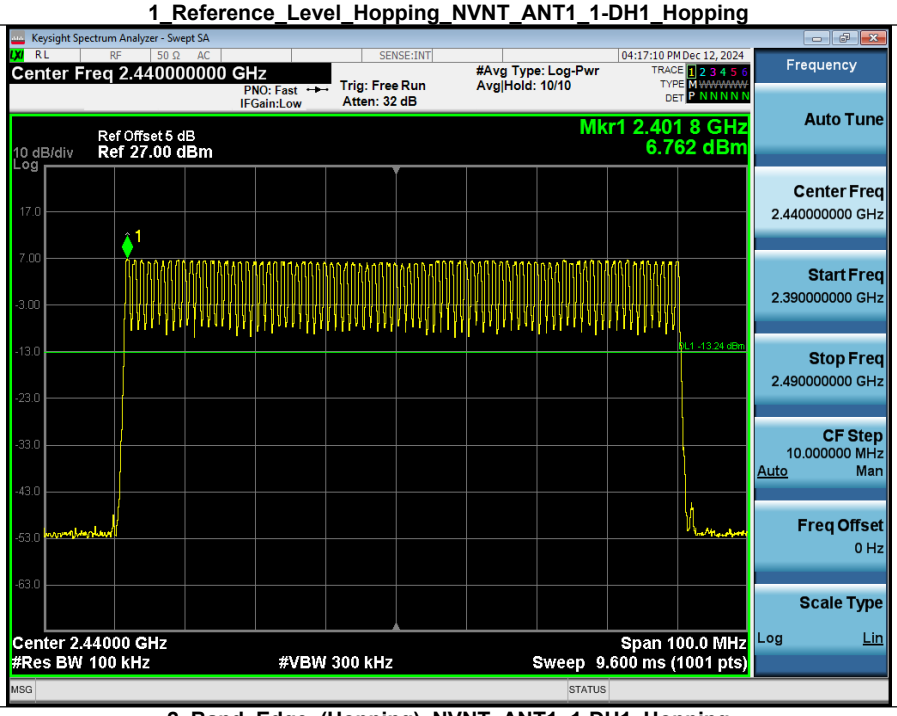
Condition	Antenna	Modulation	TX Mode	Bandedge MAX.Value	Limit	Result
NVNT	ANT1	1-DH1	2402.00	-50.653	-15.260	Pass
NVNT	ANT1	1-DH1	Hopping_LCH	-49.212	-13.238	Pass
NVNT	ANT1	1-DH1	2480.00	-57.034	-14.438	Pass
NVNT	ANT1	1-DH1	Hopping_HCH	-53.374	-13.562	Pass
NVNT	ANT1	2-DH1	2402.00	-47.081	-14.642	Pass
NVNT	ANT1	2-DH1	Hopping_LCH	-47.168	-12.156	Pass
NVNT	ANT1	2-DH1	2480.00	-55.847	-15.596	Pass
NVNT	ANT1	2-DH1	Hopping_HCH	-57.477	-12.159	Pass
NVNT	ANT1	3-DH1	2402.00	-47.002	-14.797	Pass
NVNT	ANT1	3-DH1	Hopping_LCH	-48.545	-12.284	Pass
NVNT	ANT1	3-DH1	2480.00	-55.168	-15.661	Pass
NVNT	ANT1	3-DH1	Hopping_HCH	-57.598	-12.193	Pass

1_Reference_Level_NVNT_ANT1_1-DH1_2402_00

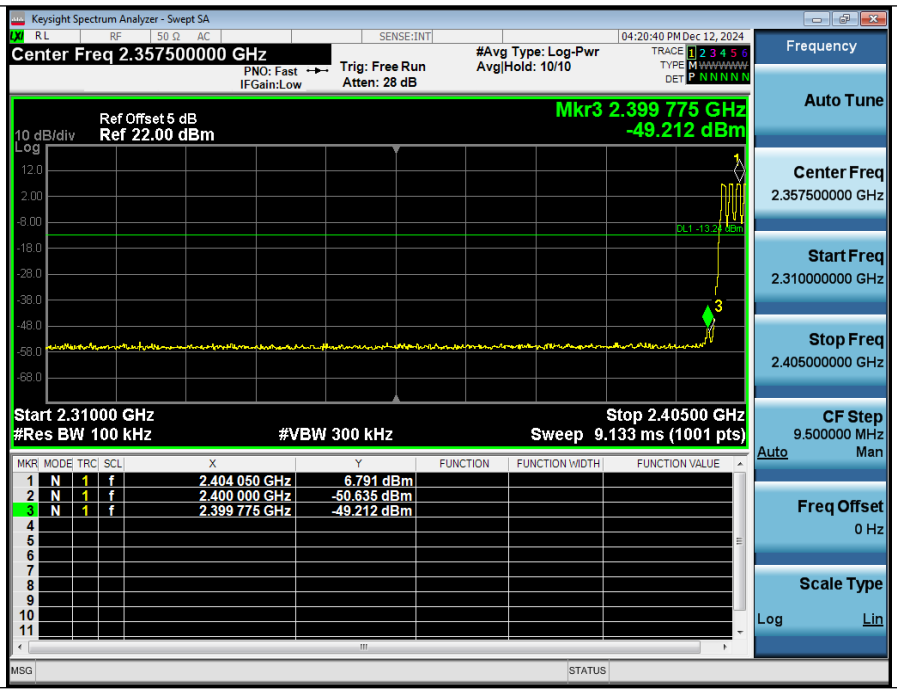
2_Bandedge_NVNT_ANT1_1-DH1_2402_00



1_Reference_Level_Hopping_NVNT_ANT1_1-DH1_Hopping

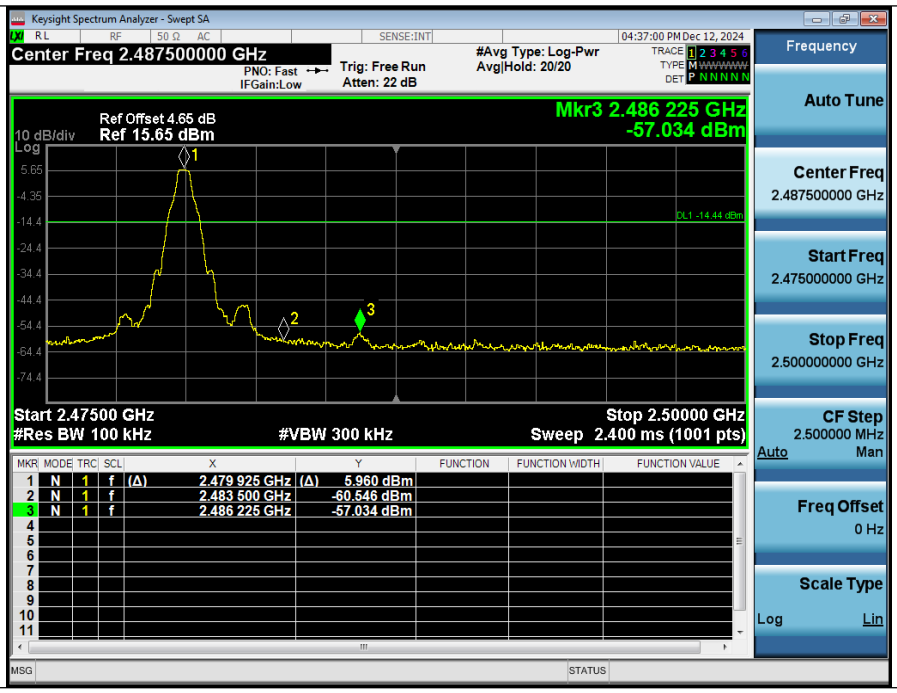


2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH1_Hopping

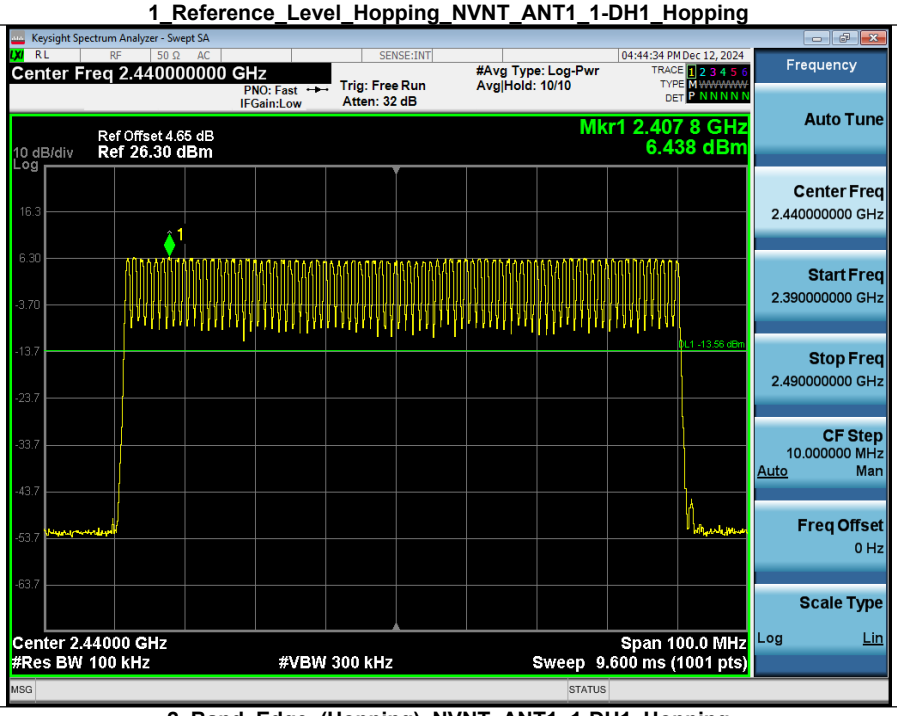


1_Reference_Level_NVNT_ANT1_1-DH1_2480_00

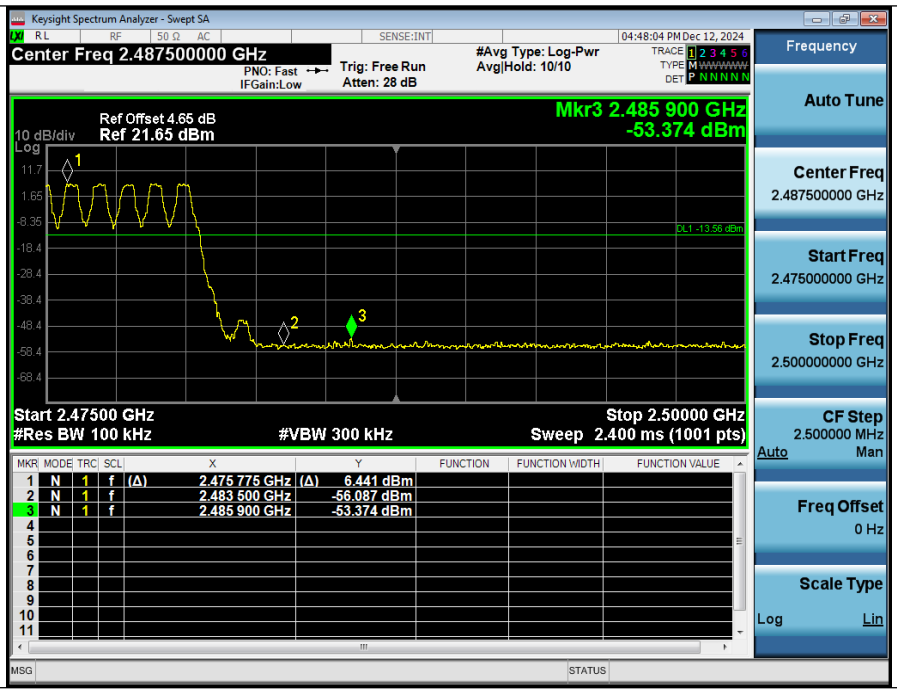
2_Bandedge_NVNT_ANT1_1-DH1_2480_00



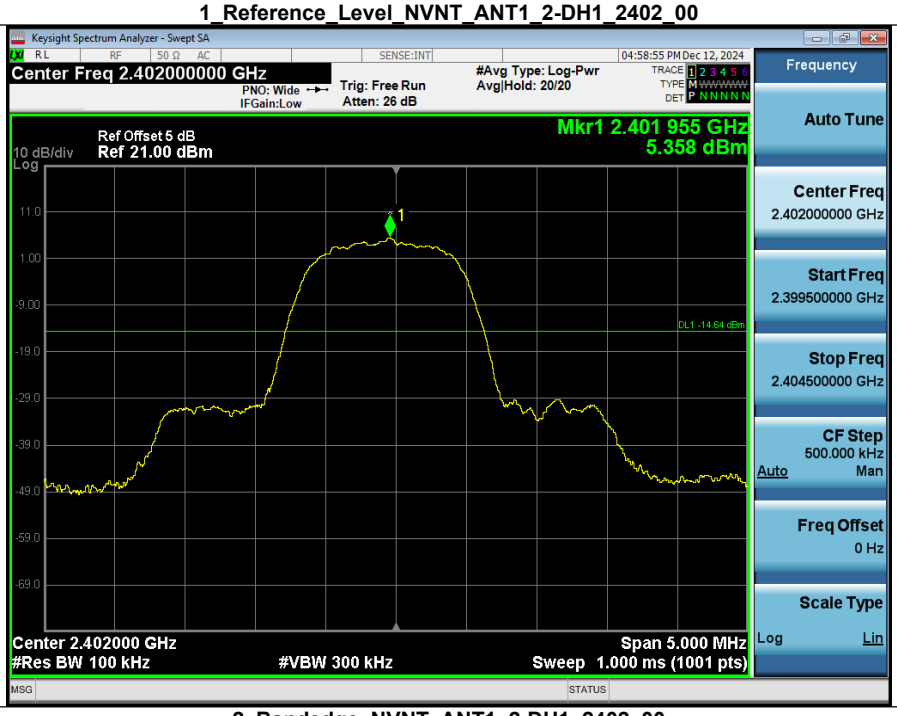
1_Reference_Level_Hopping_NVNT_ANT1_1-DH1_Hopping



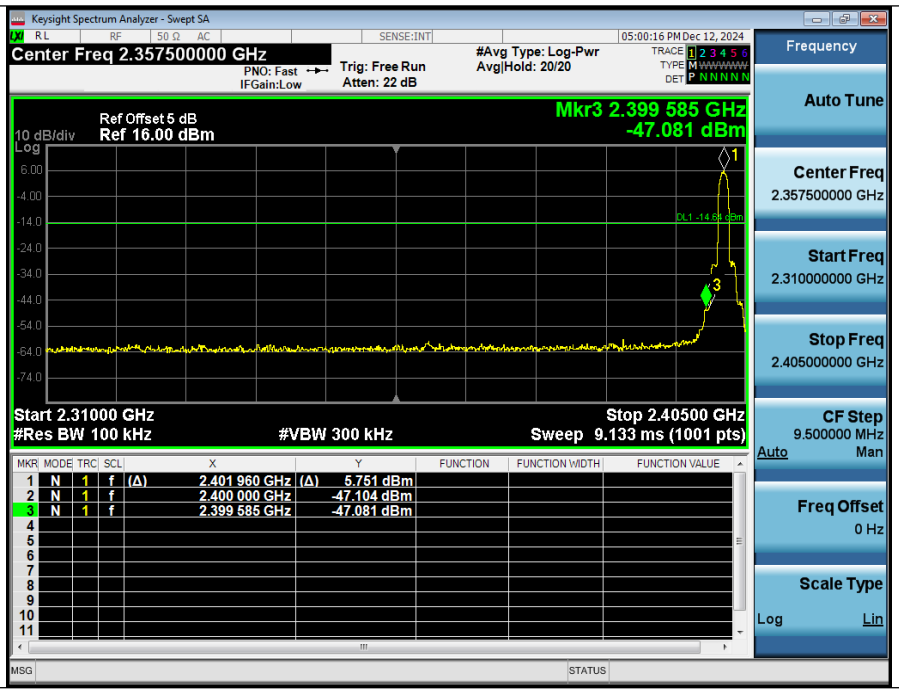
2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH1_Hopping



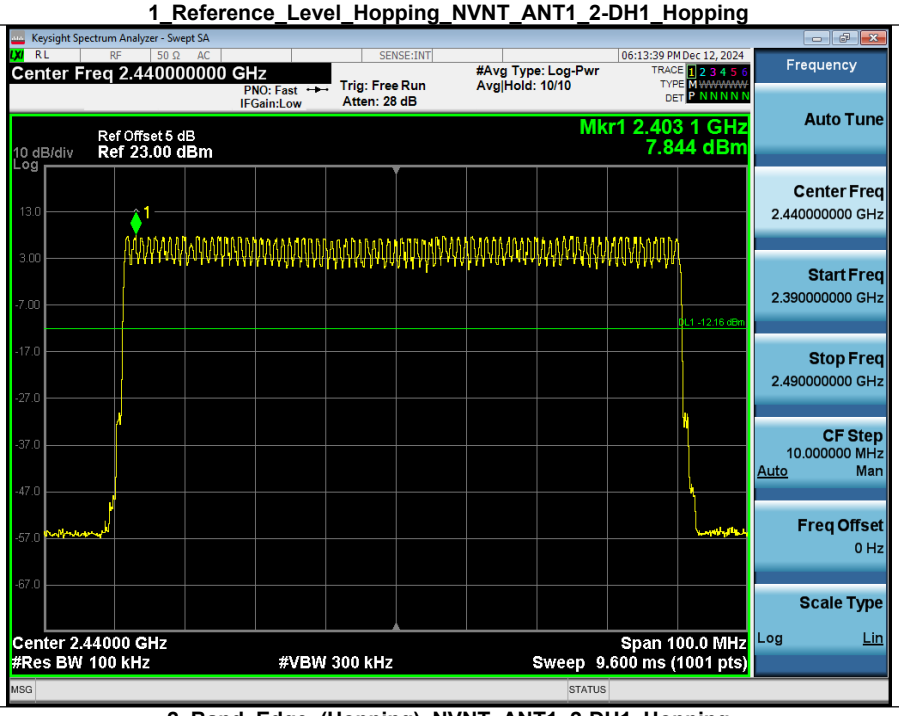
1_Reference_Level_NVNT_ANT1_2-DH1_2402_00



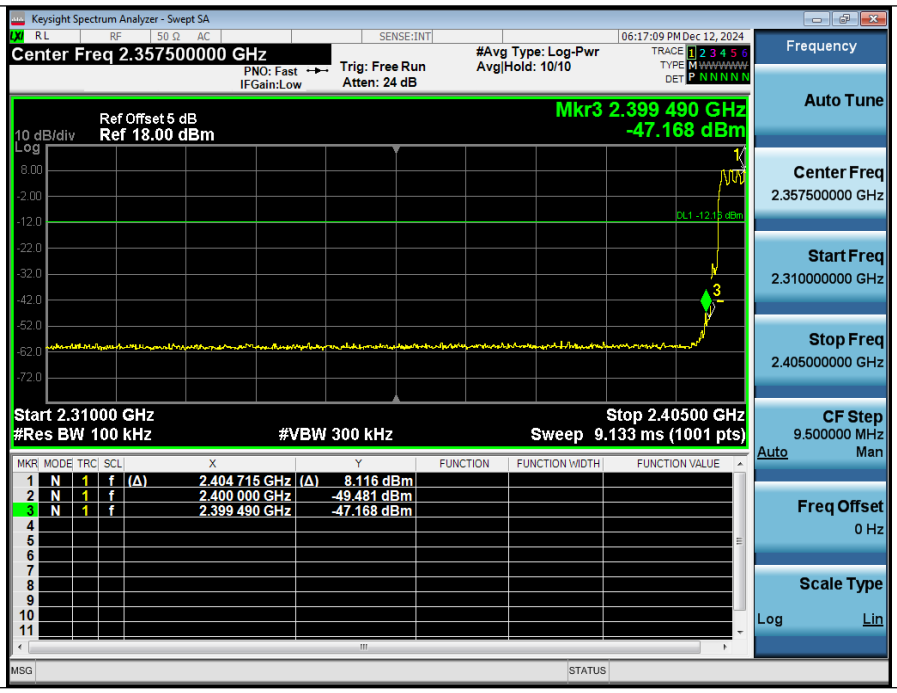
2_Bandedge_NVNT_ANT1_2-DH1_2402_00



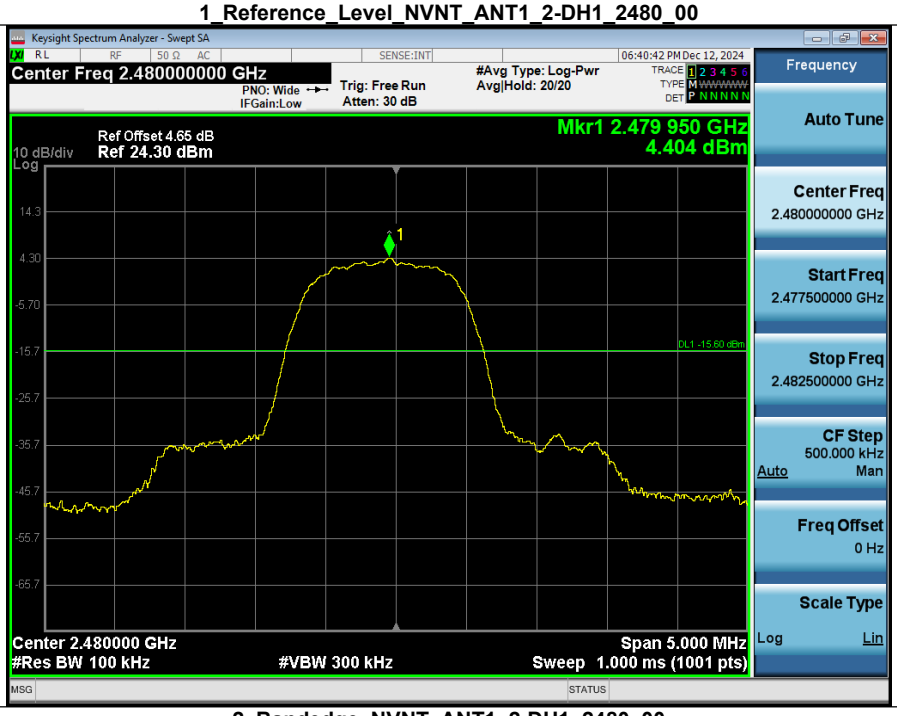
1_Reference_Level_Hopping_NVNT_ANT1_2-DH1_Hopping



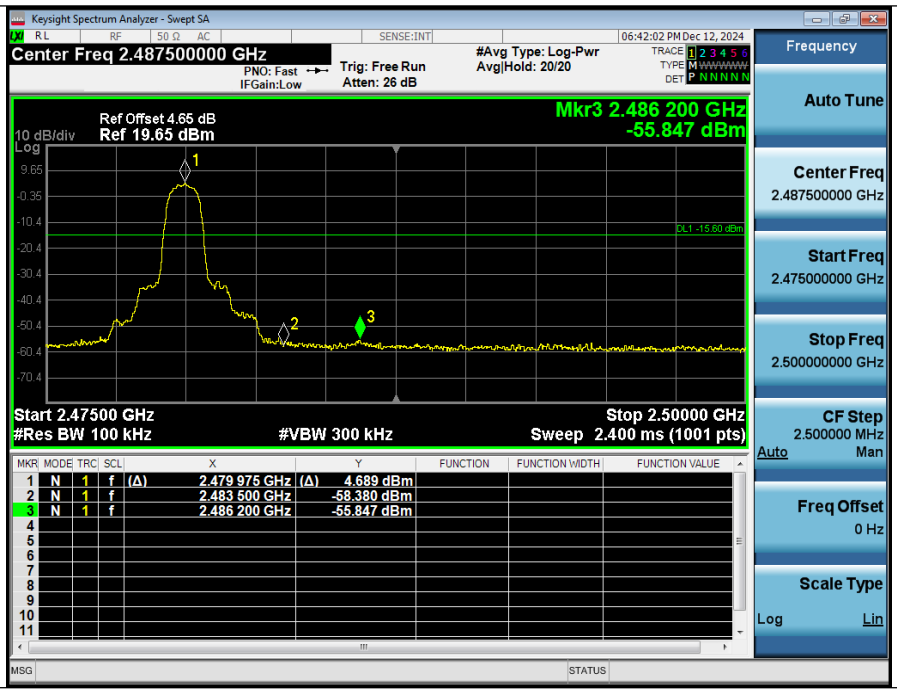
2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH1_Hopping



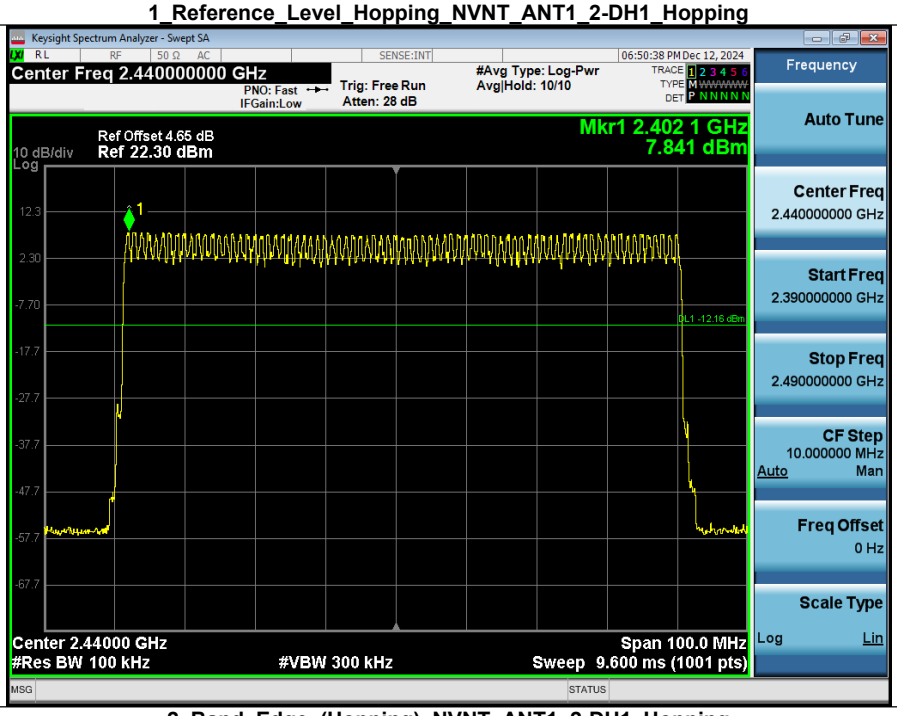
1_Reference_Level_NVNT_ANT1_2-DH1_2480_00



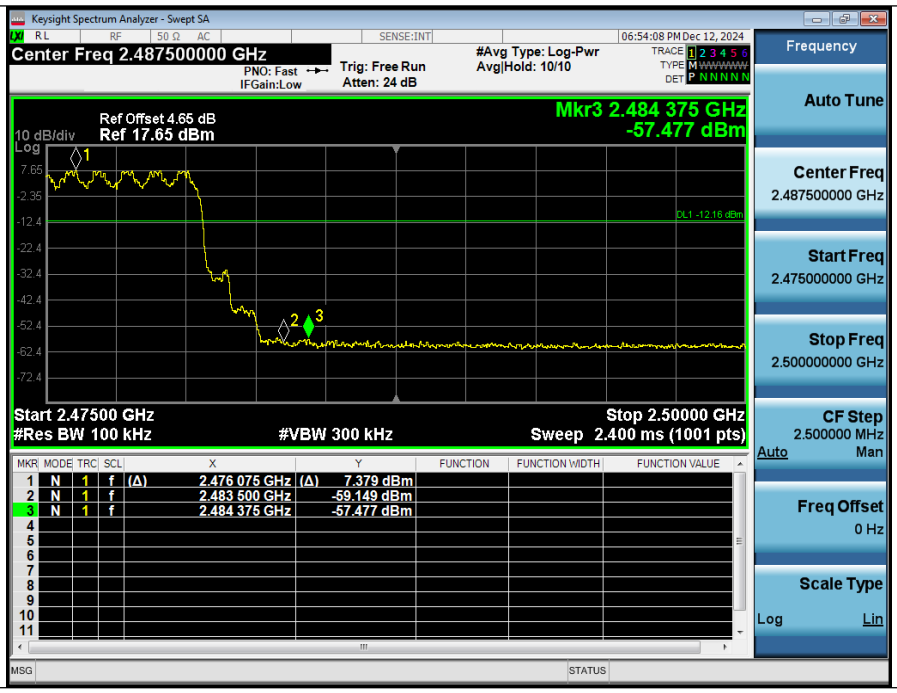
2_Bandedge_NVNT_ANT1_2-DH1_2480_00



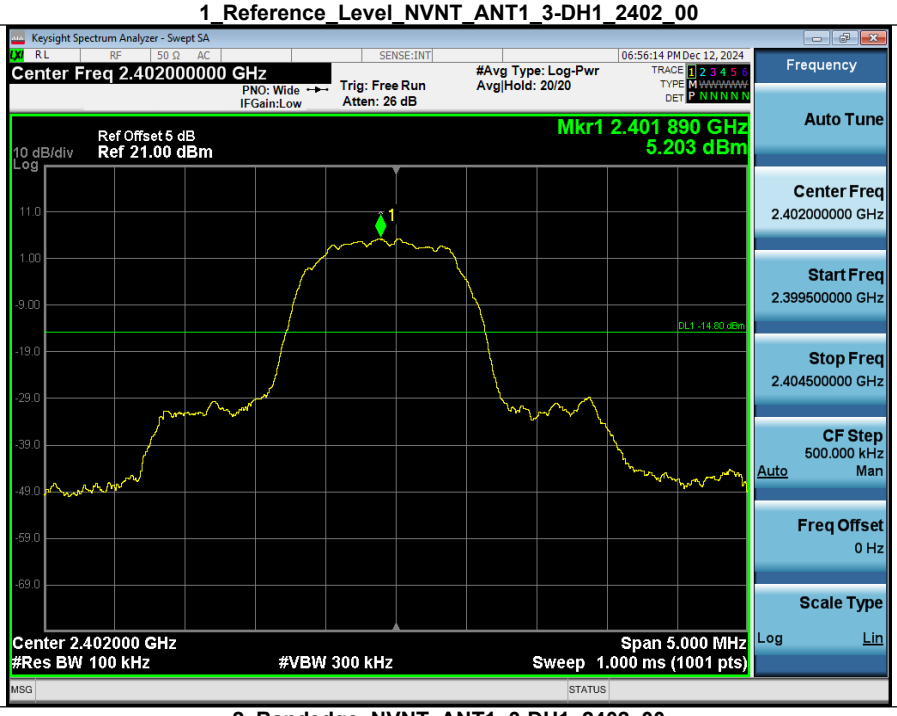
1_Reference_Level_Hopping_NVNT_ANT1_2-DH1_Hopping



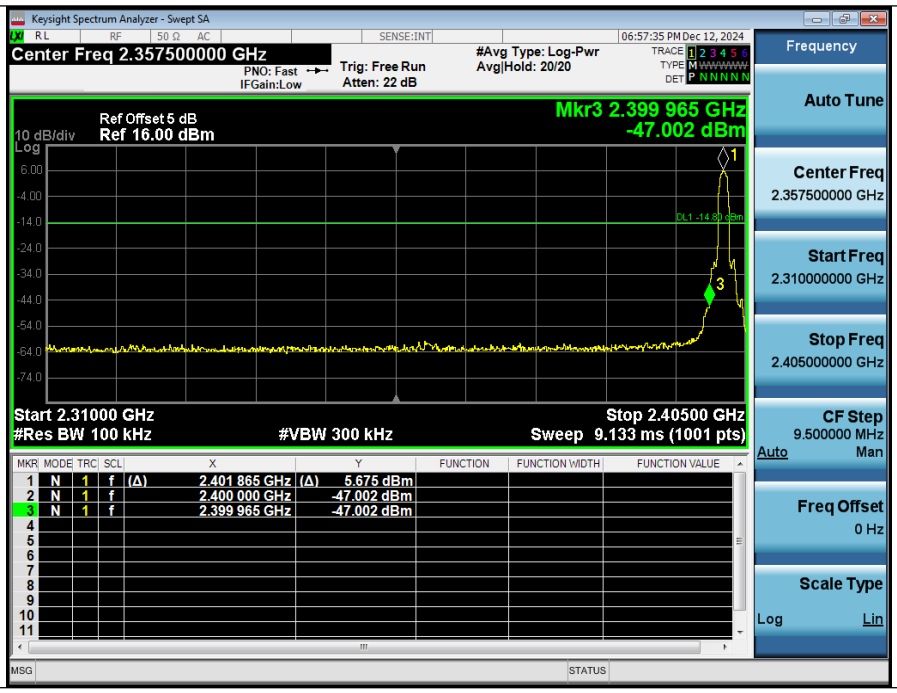
2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH1_Hopping



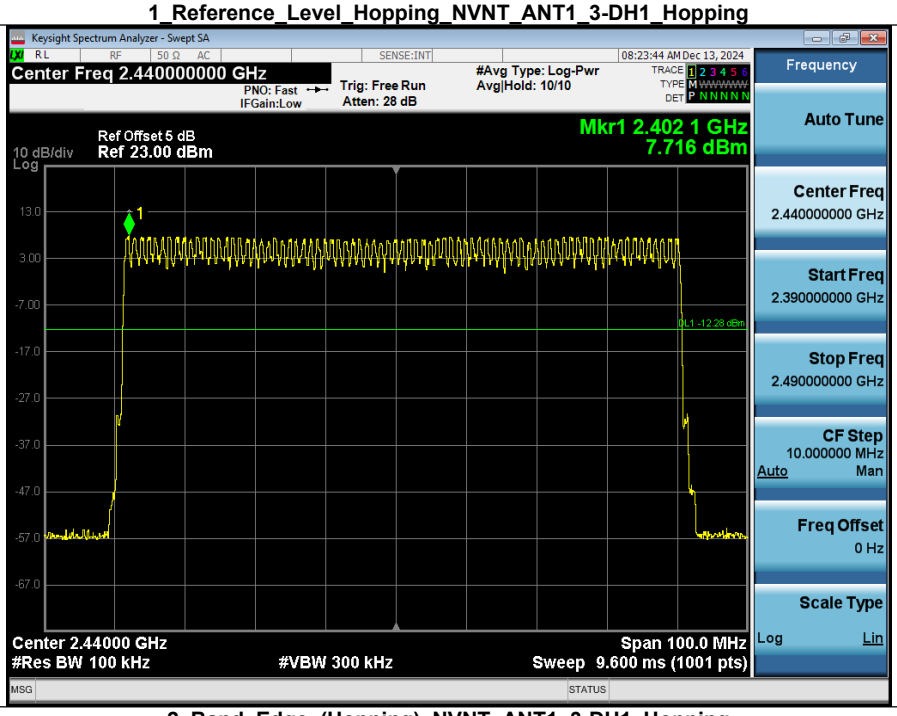
1_Reference_Level_NVNT_ANT1_3-DH1_2402_00



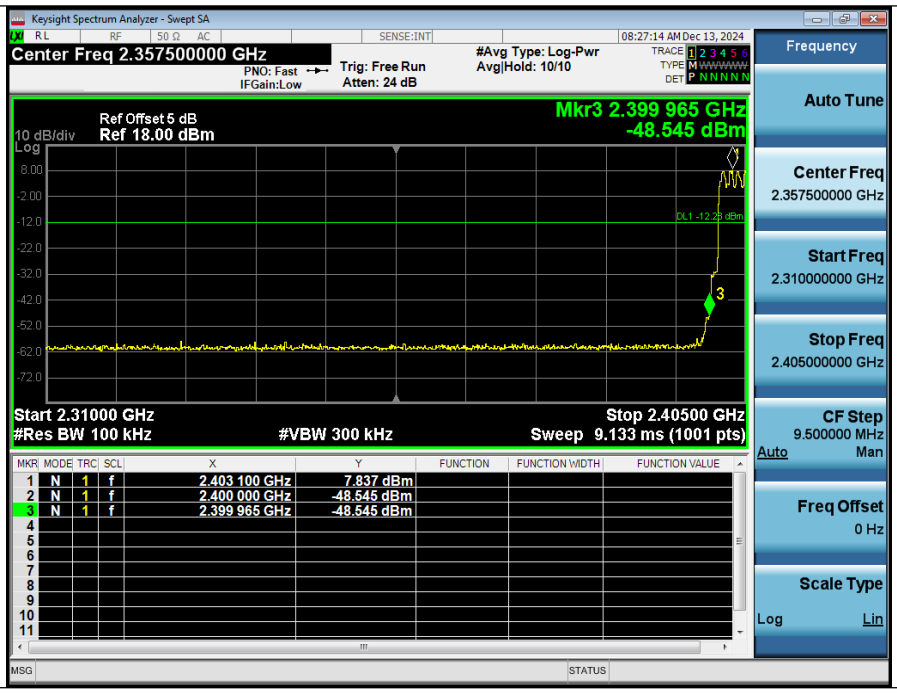
2_Bandedge_NVNT_ANT1_3-DH1_2402_00



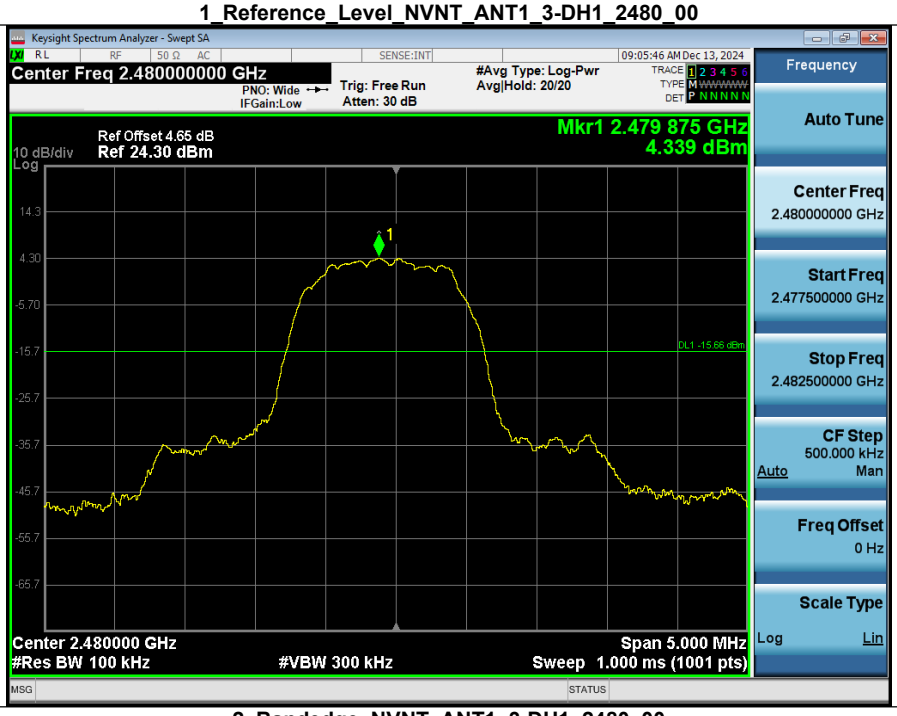
1_Reference_Level_Hopping_NVNT_ANT1_3-DH1_Hopping



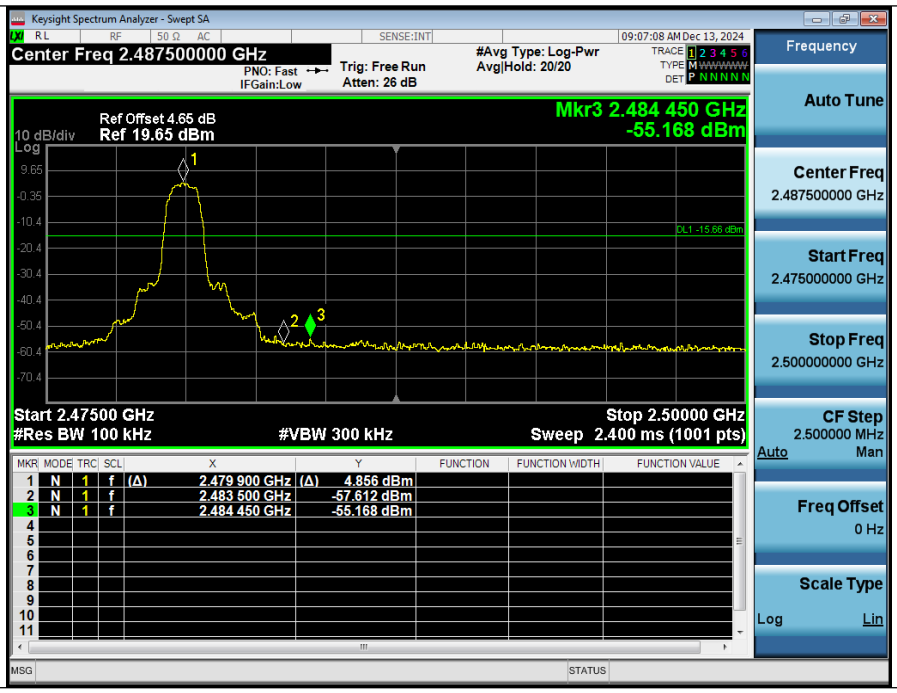
2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH1_Hopping



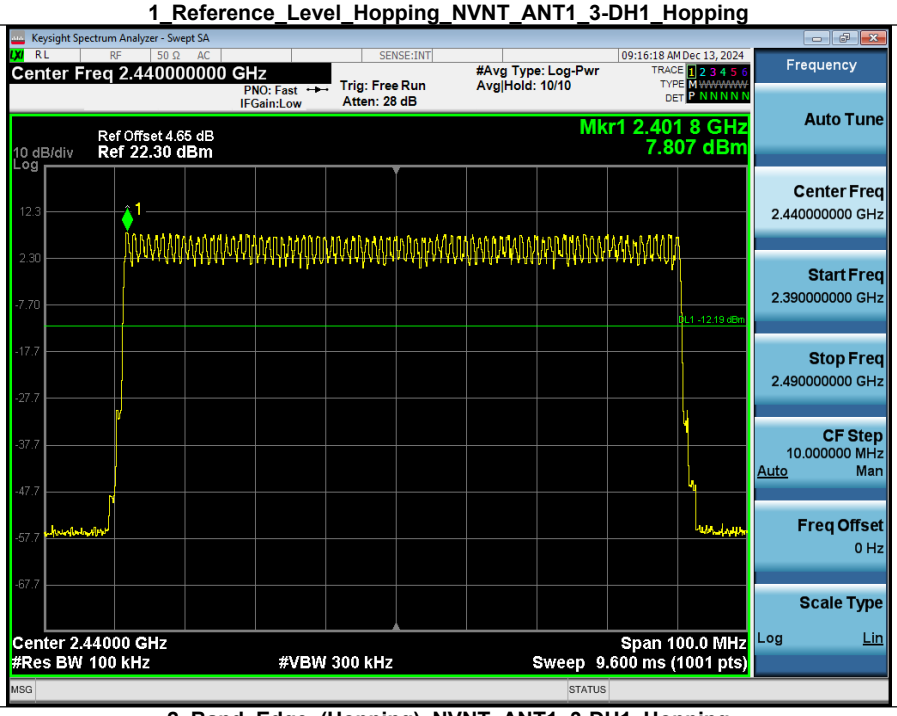
1_Reference_Level_NVNT_ANT1_3-DH1_2480_00



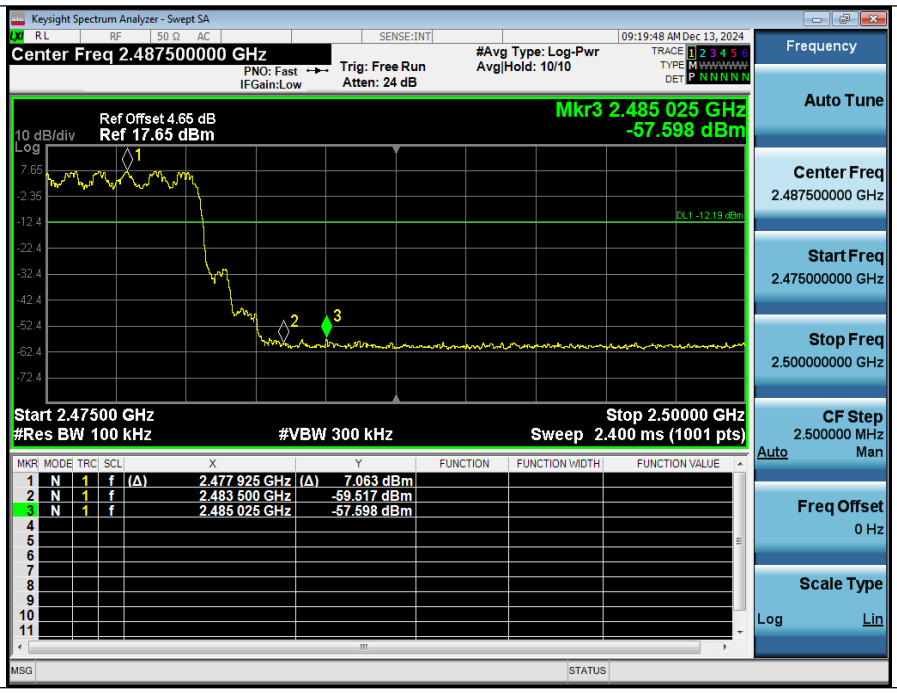
2_Bandedge_NVNT_ANT1_3-DH1_2480_00



1_Reference_Level_Hopping_NVNT_ANT1_3-DH1_Hopping



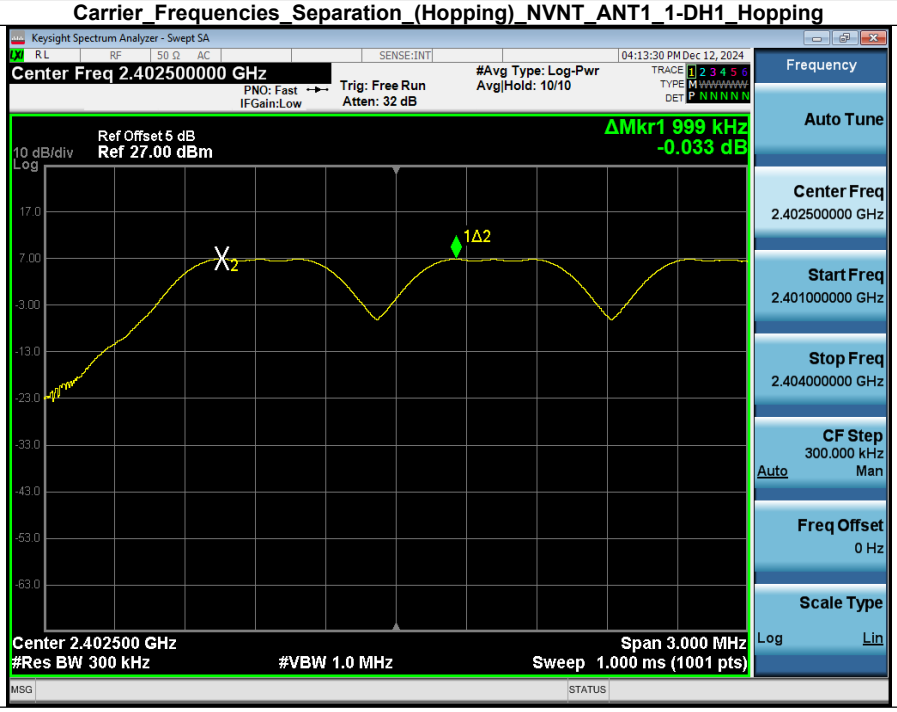
2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH1_Hopping


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
09:19:48 AM Dec 13, 2024
Ref Offset 4.65 dB
10 dB/div
Ref 17.65 dBm
Mkr3 2.485 025 GHz
-57.598 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) 2.477 925 GHz (Δ) 7.063 dBm
2 N 1 f 2.483 500 GHz -59.517 dBm
3 N 1 f 2.485 025 GHz -57.598 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

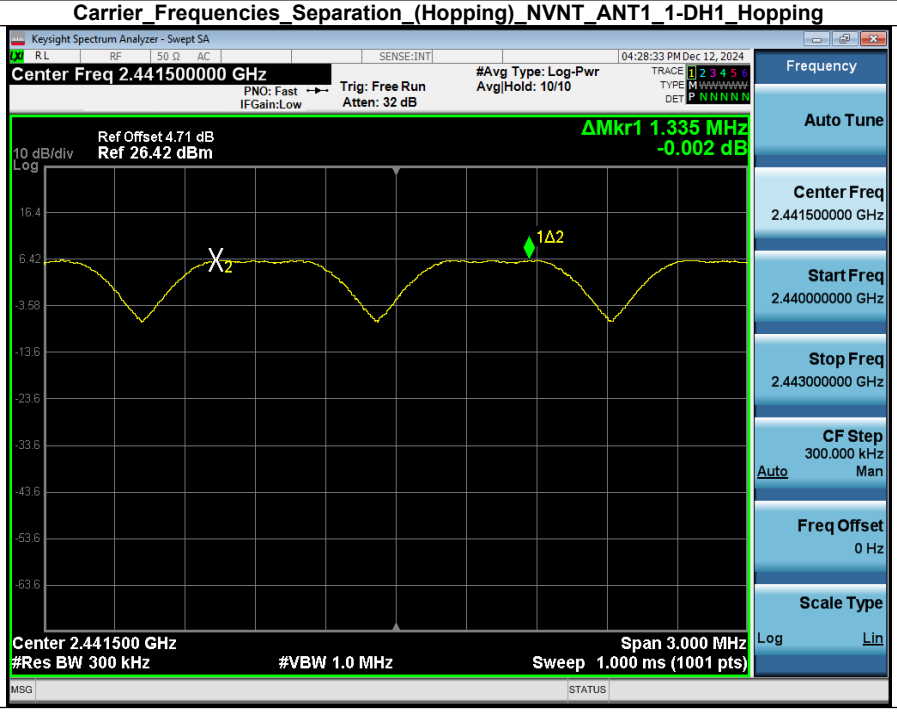
7. Carrier Frequencies Separation (Hopping)

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	2401.756	2402.755	1.00	0.964	Pass
NVNT	ANT1	1-DH1	2441.00	2440.732	2442.067	1.33	0.962	Pass
NVNT	ANT1	1-DH1	2480.00	2478.753	2479.749	1.00	0.963	Pass
NVNT	ANT1	2-DH1	2402.00	2401.744	2402.749	1.00	0.917	Pass
NVNT	ANT1	2-DH1	2441.00	2440.738	2441.746	1.01	0.915	Pass
NVNT	ANT1	2-DH1	2480.00	2478.744	2479.743	1.00	0.914	Pass
NVNT	ANT1	3-DH1	2402.00	2402.080	2403.076	1.00	0.902	Pass
NVNT	ANT1	3-DH1	2441.00	2440.738	2441.740	1.00	0.902	Pass
NVNT	ANT1	3-DH1	2480.00	2478.744	2479.740	1.00	0.901	Pass

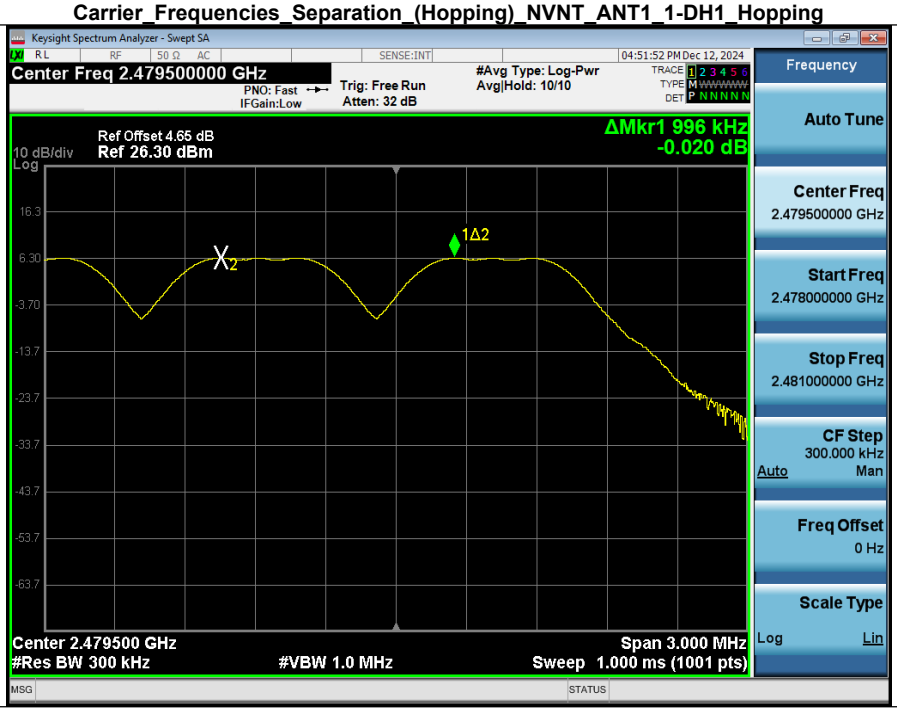
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH1_Hopping



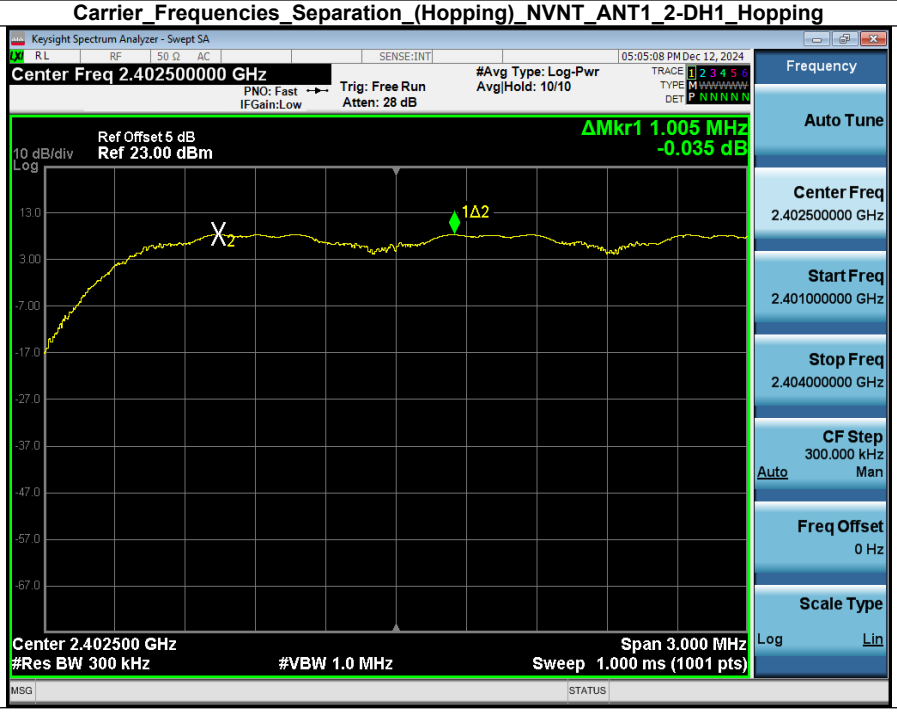
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH1_Hopping



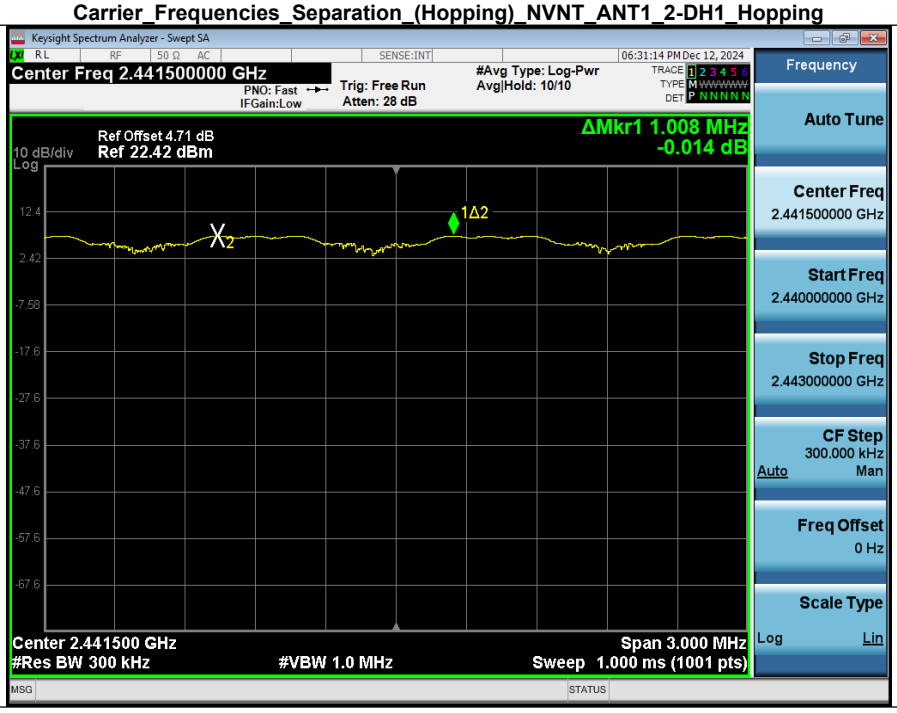
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH1_Hopping



Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH1_Hopping

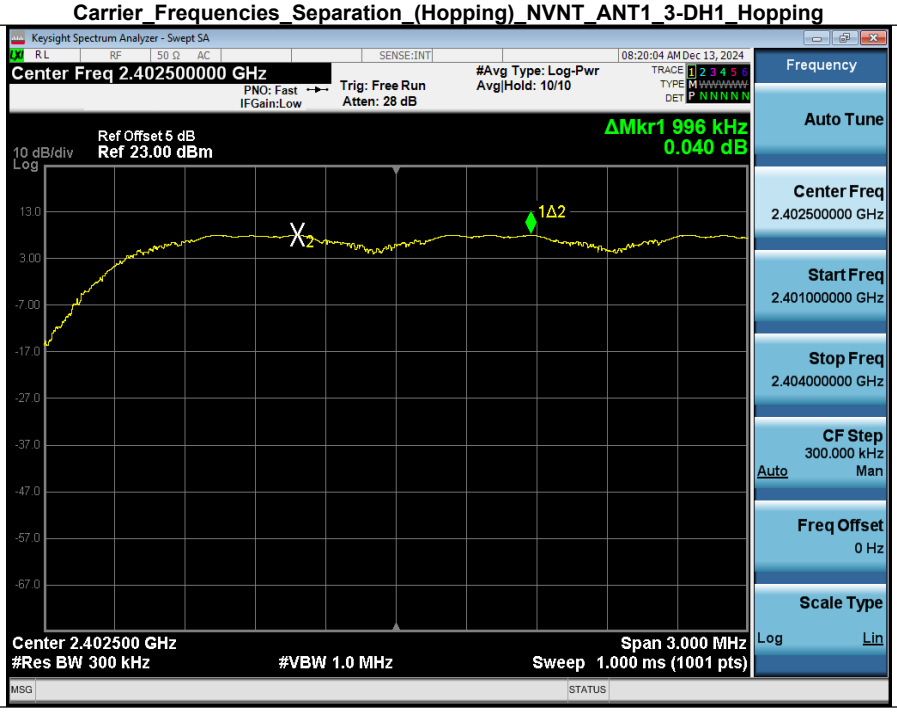


Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH1_Hopping

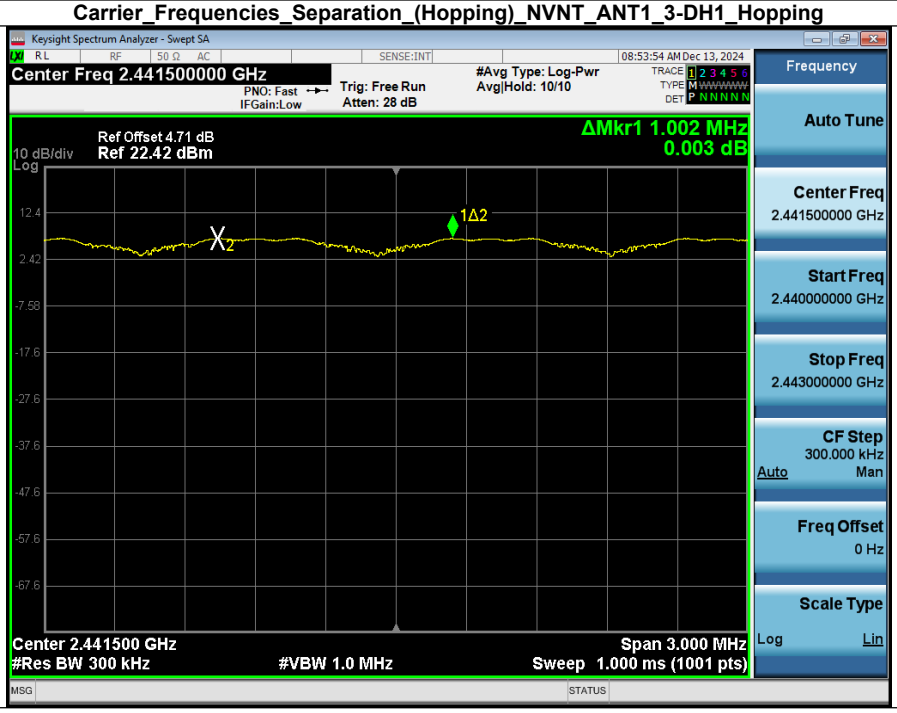


Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH1_Hopping

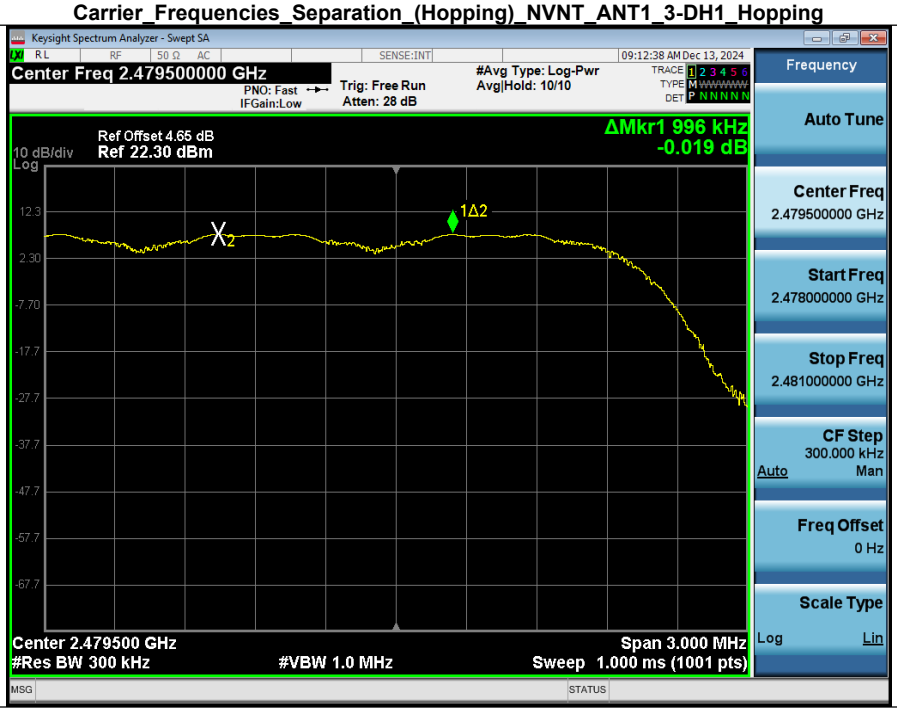
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH1_Hopping



Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH1_Hopping



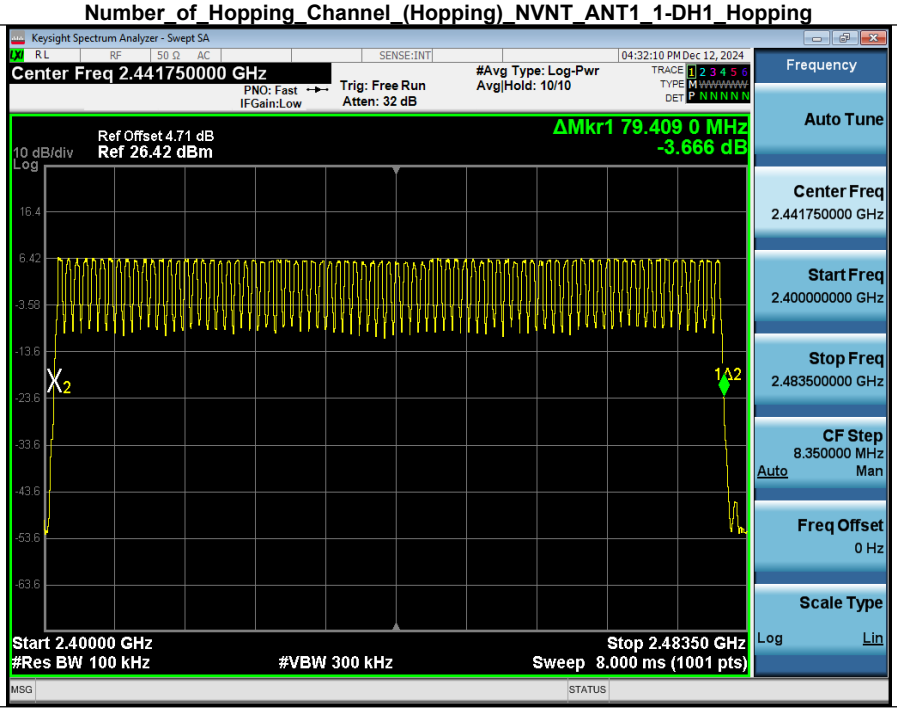
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH1_Hopping



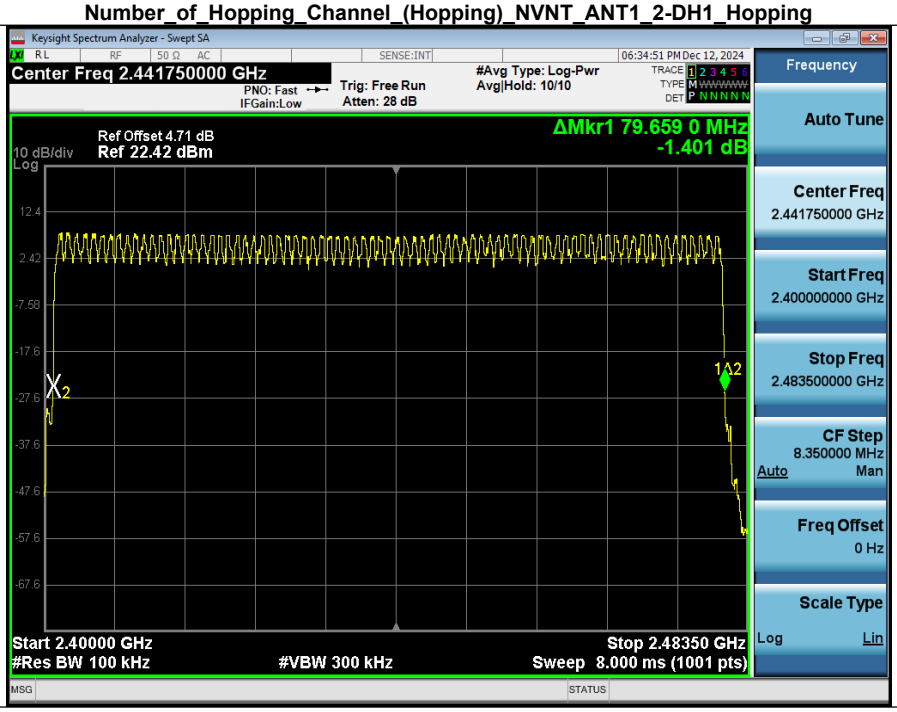
8. Number of Hopping Channel (Hopping)

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

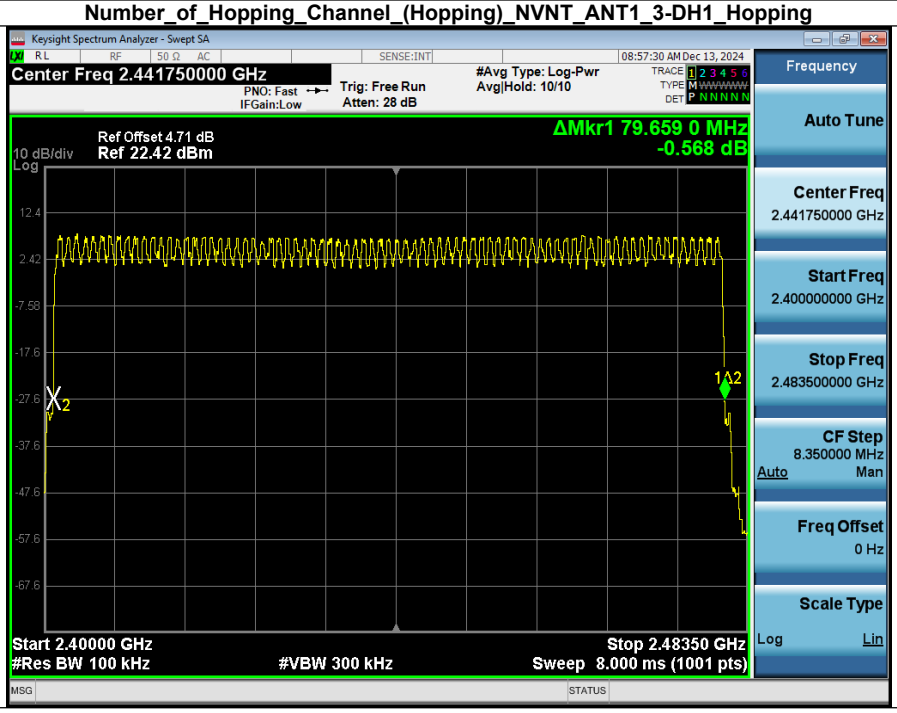
Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_1-DH1_Hopping



Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_2-DH1_Hopping



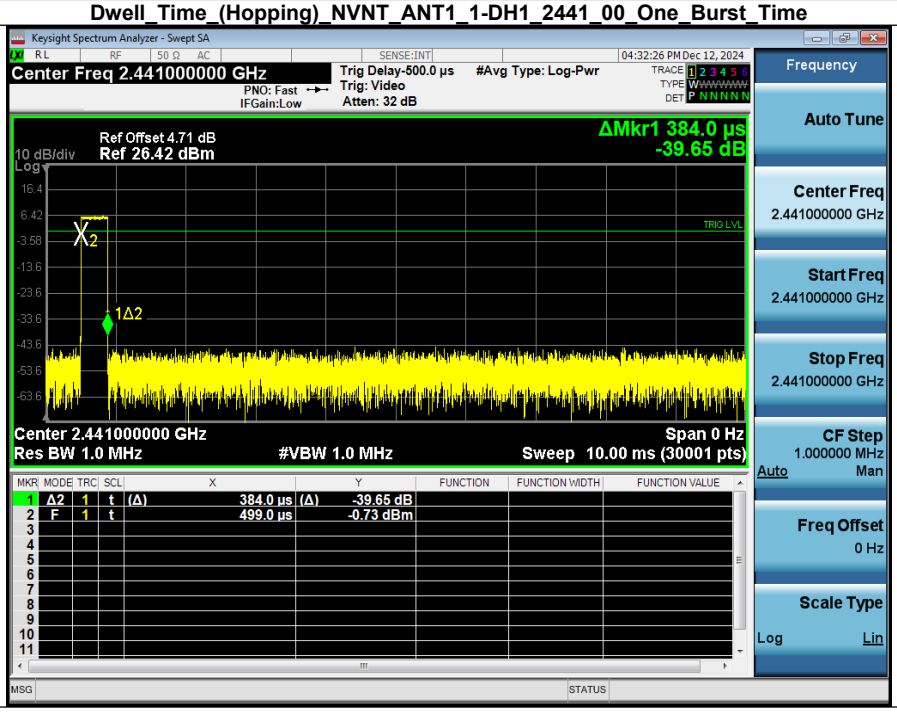
Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_3-DH1_Hopping



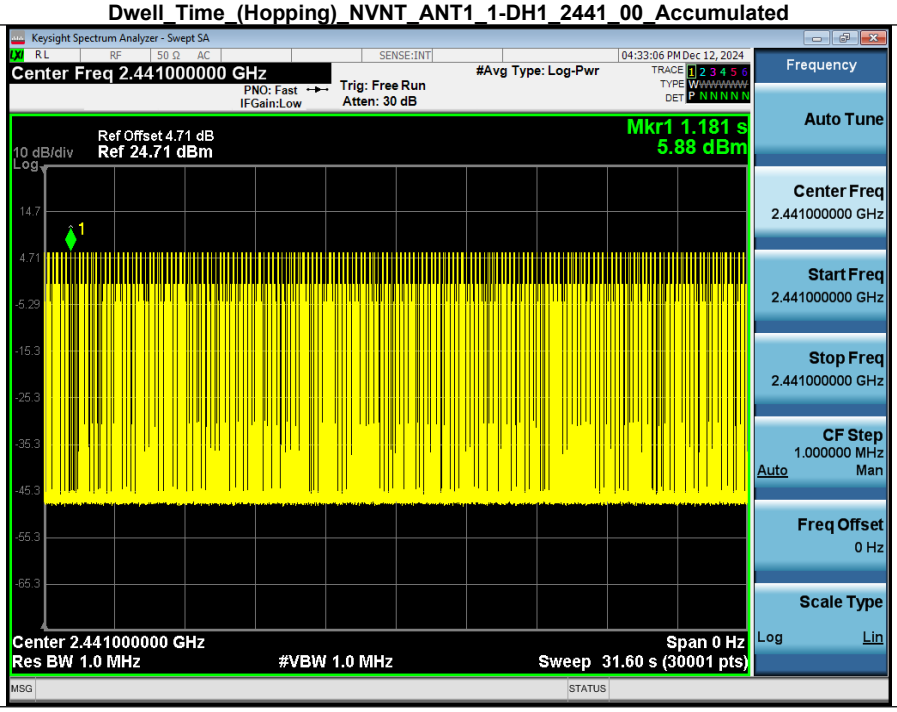
9. Dwell Time (Hopping)

Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH1	0.384	320.00	122.880	0.40	Pass
NVNT	ANT1	2-DH1	0.387	320.00	123.840	0.40	Pass
NVNT	ANT1	3-DH1	0.388	320.00	124.160	0.40	Pass
NVNT	ANT1	1-DH3	1.640	166.00	272.240	0.40	Pass
NVNT	ANT1	1-DH5	2.888	109.00	314.792	0.40	Pass
NVNT	ANT1	2-DH3	1.646	163.00	268.298	0.40	Pass
NVNT	ANT1	2-DH5	2.894	106.00	306.764	0.40	Pass
NVNT	ANT1	3-DH3	1.638	153.00	250.614	0.40	Pass
NVNT	ANT1	3-DH5	2.896	116.00	335.936	0.40	Pass

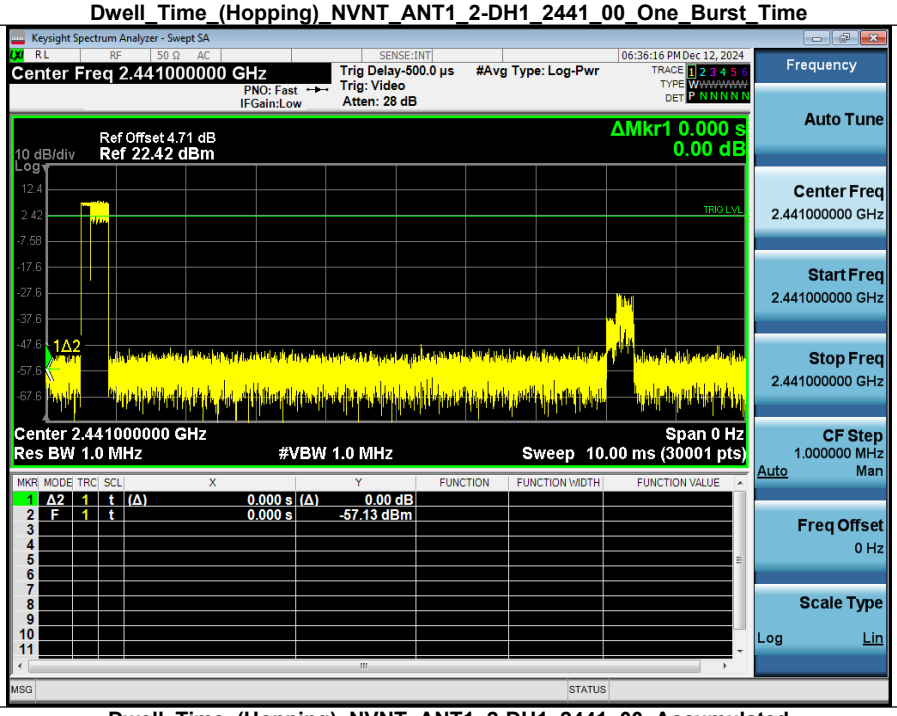
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH1_2441_00_One_Burst_Time



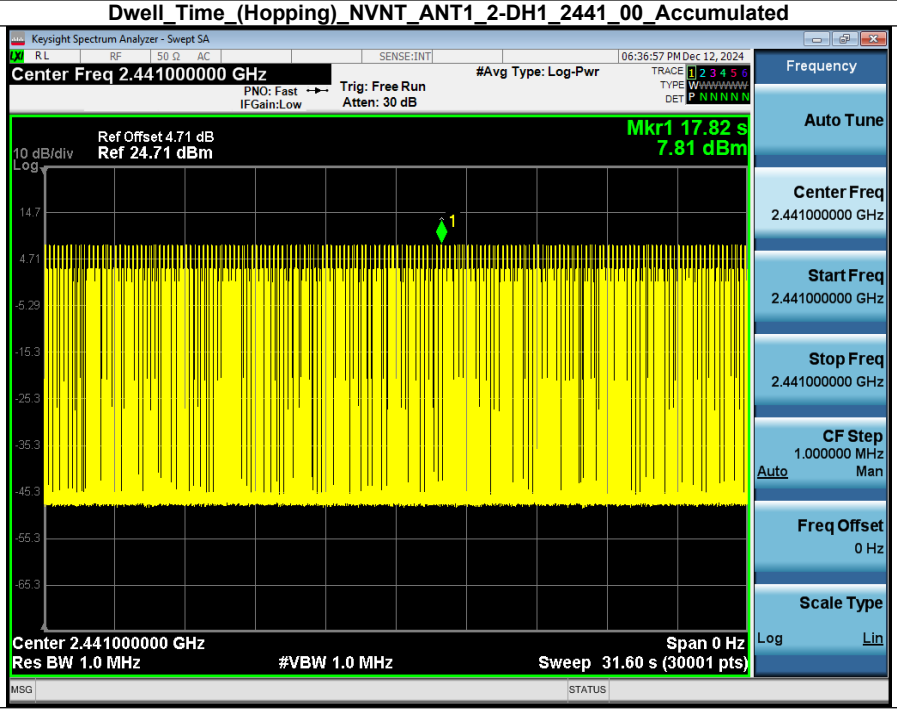
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH1_2441_00_Accumulated



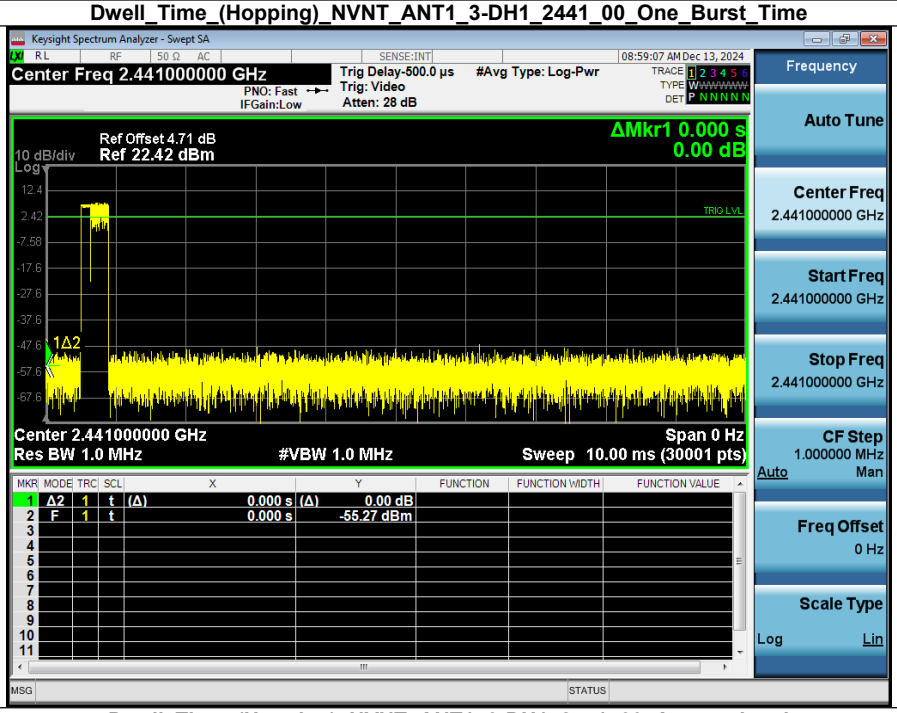
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH1_2441_00_One_Burst_Time



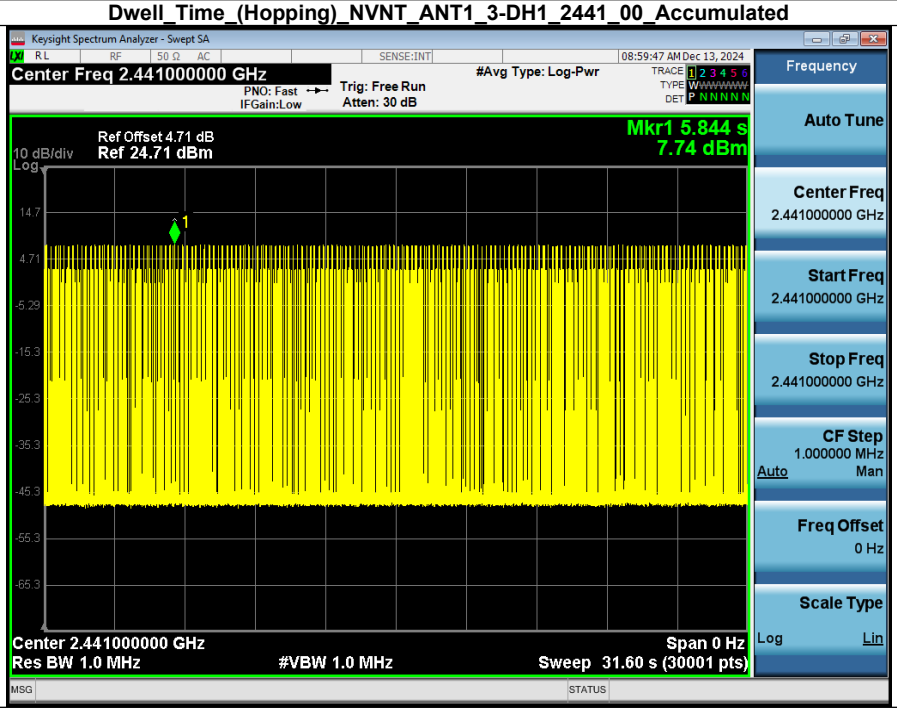
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH1_2441_00_Accumulated



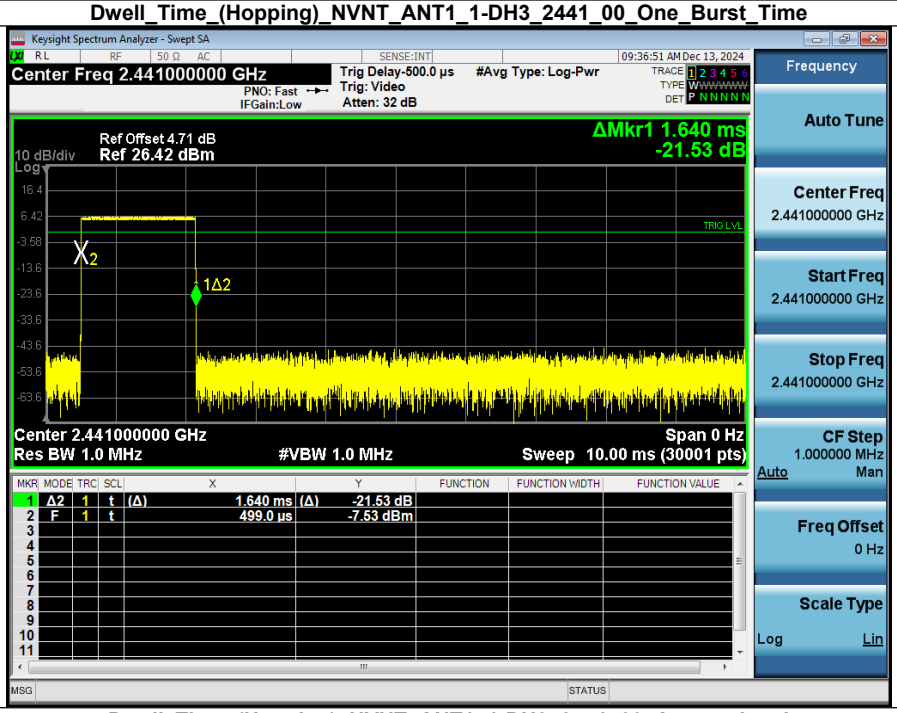
Dwell_Time_(Hopping)_NVNT_ANT1_3-DH1_2441_00_One_Burst_Time



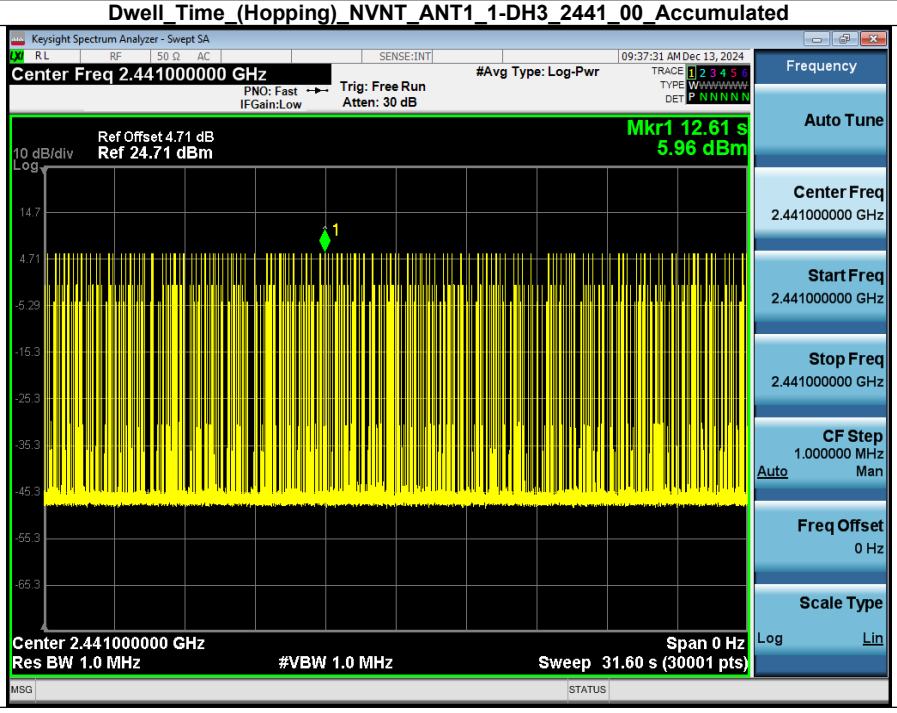
Dwell_Time_(Hopping)_NVNT_ANT1_3-DH1_2441_00_Accumulated



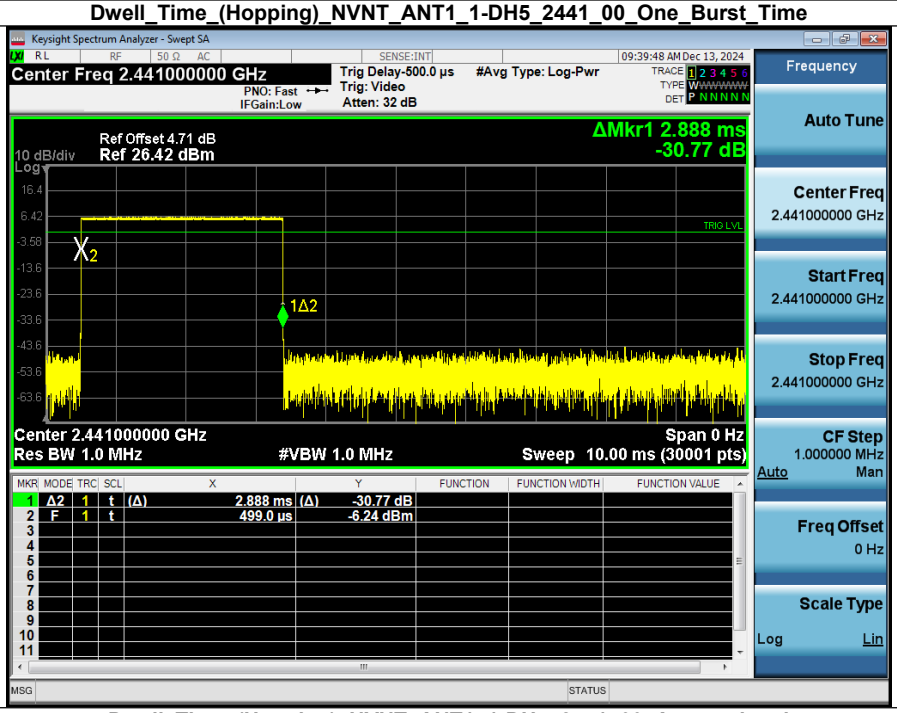
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH3_2441_00_One_Burst_Time



Dwell_Time_(Hopping)_NVNT_ANT1_1-DH3_2441_00_Accumulated



Dwell_Time_(Hopping)_NVNT_ANT1_1-DH5_2441_00_One_Burst_Time



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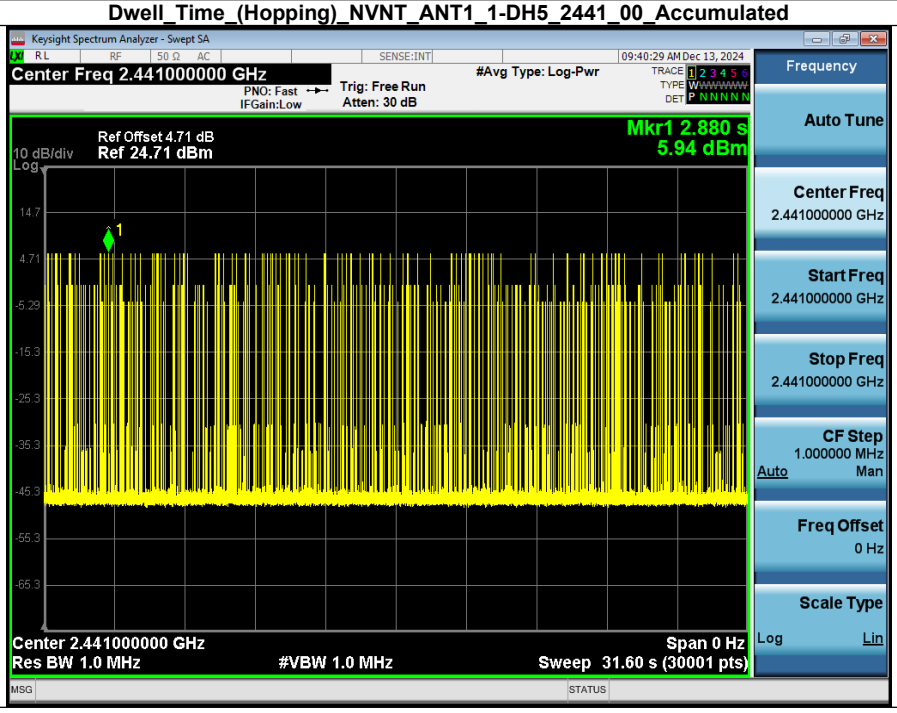

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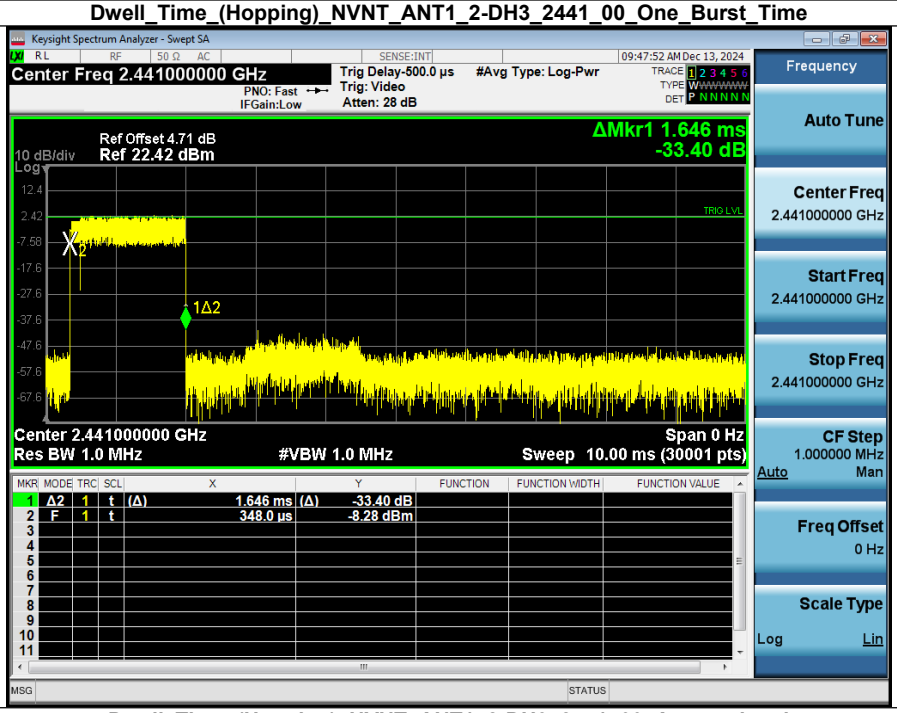

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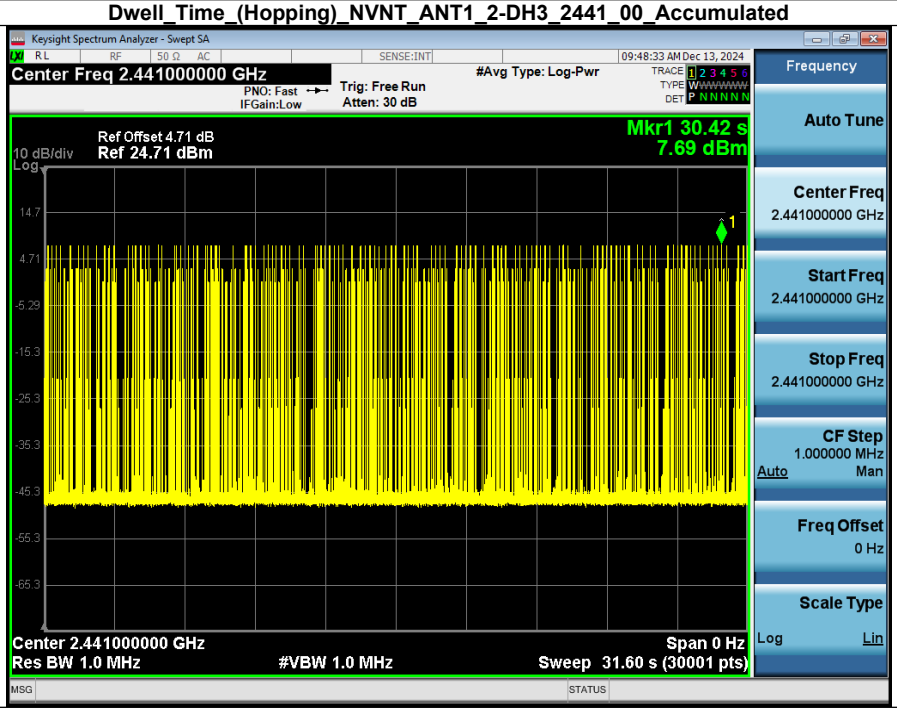

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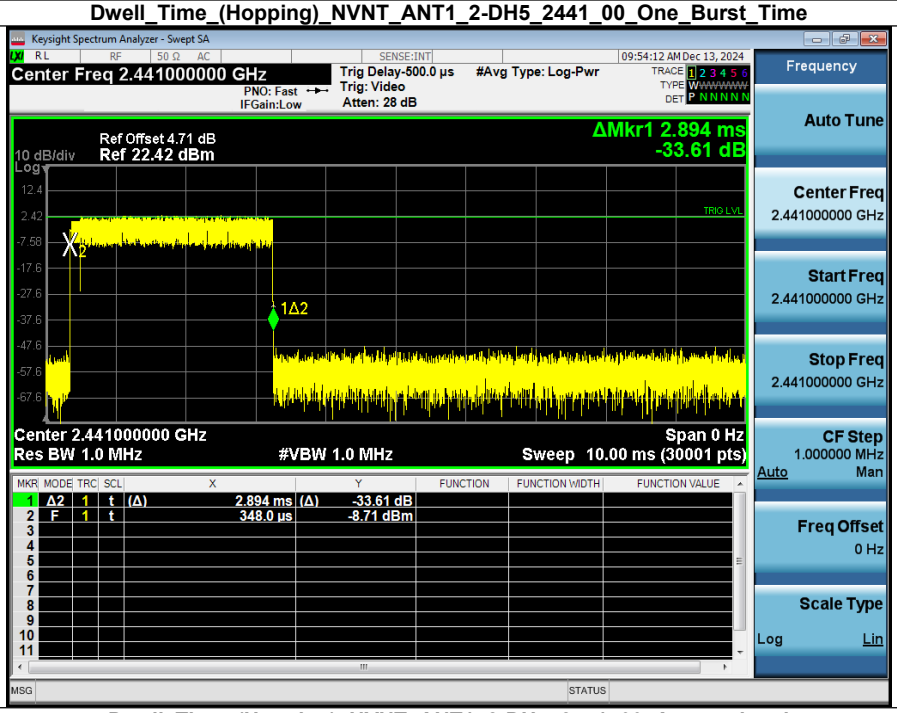

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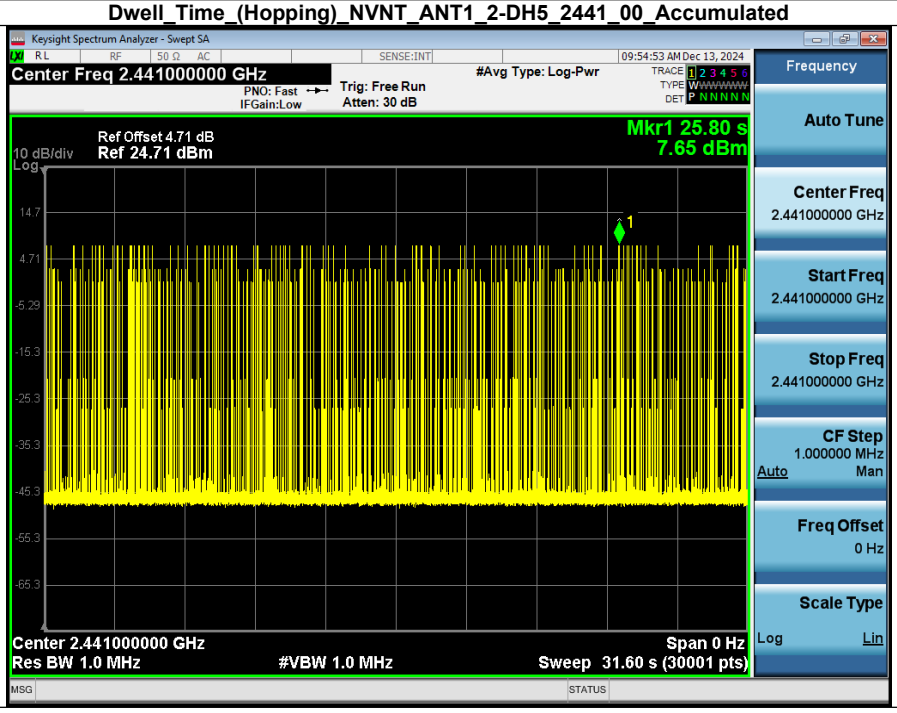

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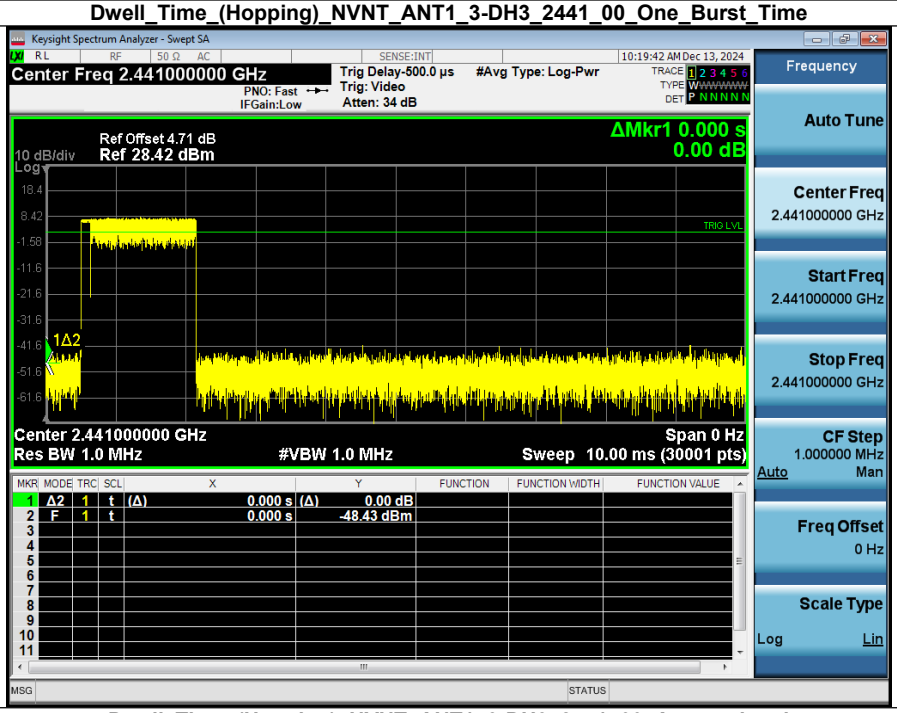

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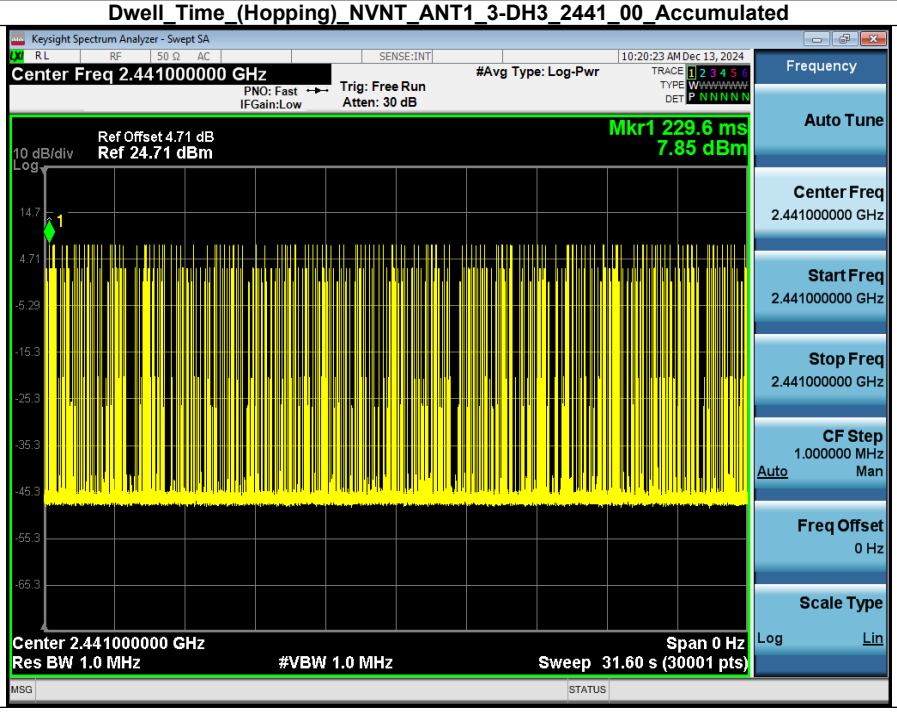

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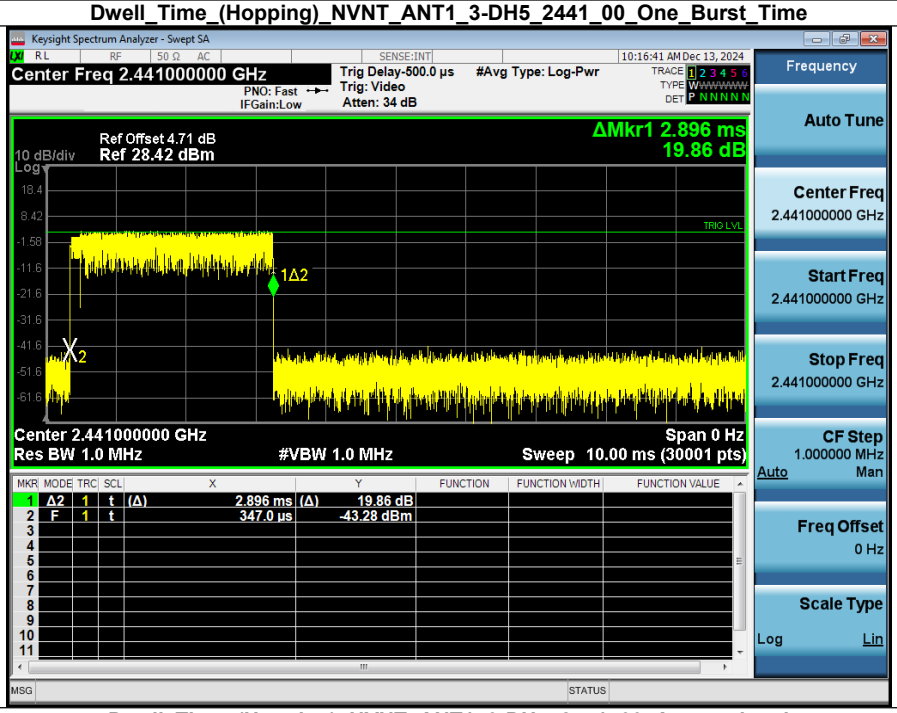
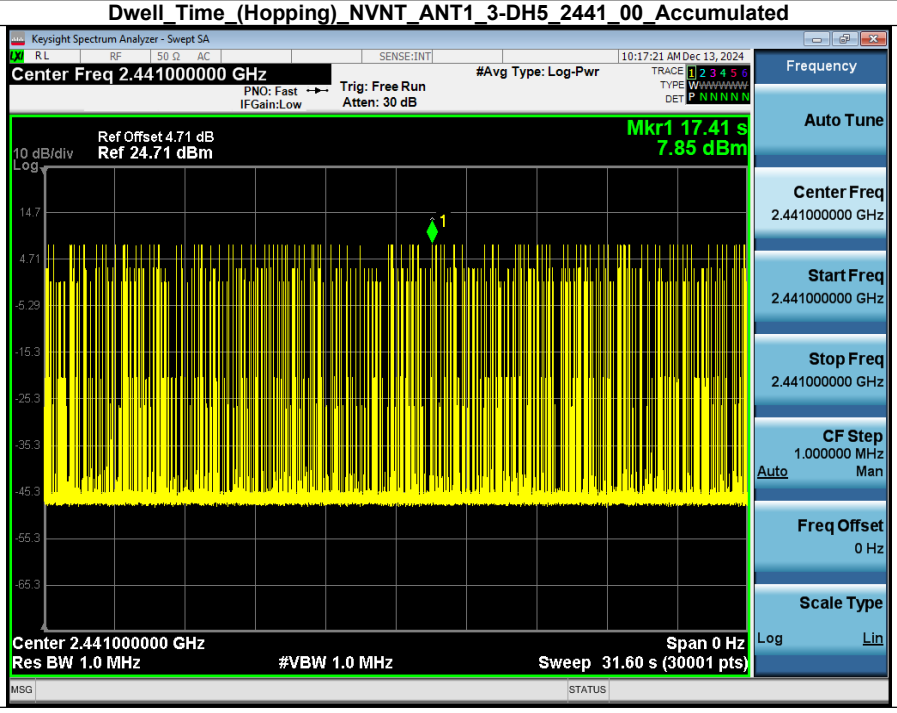
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