

Table of Contents

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

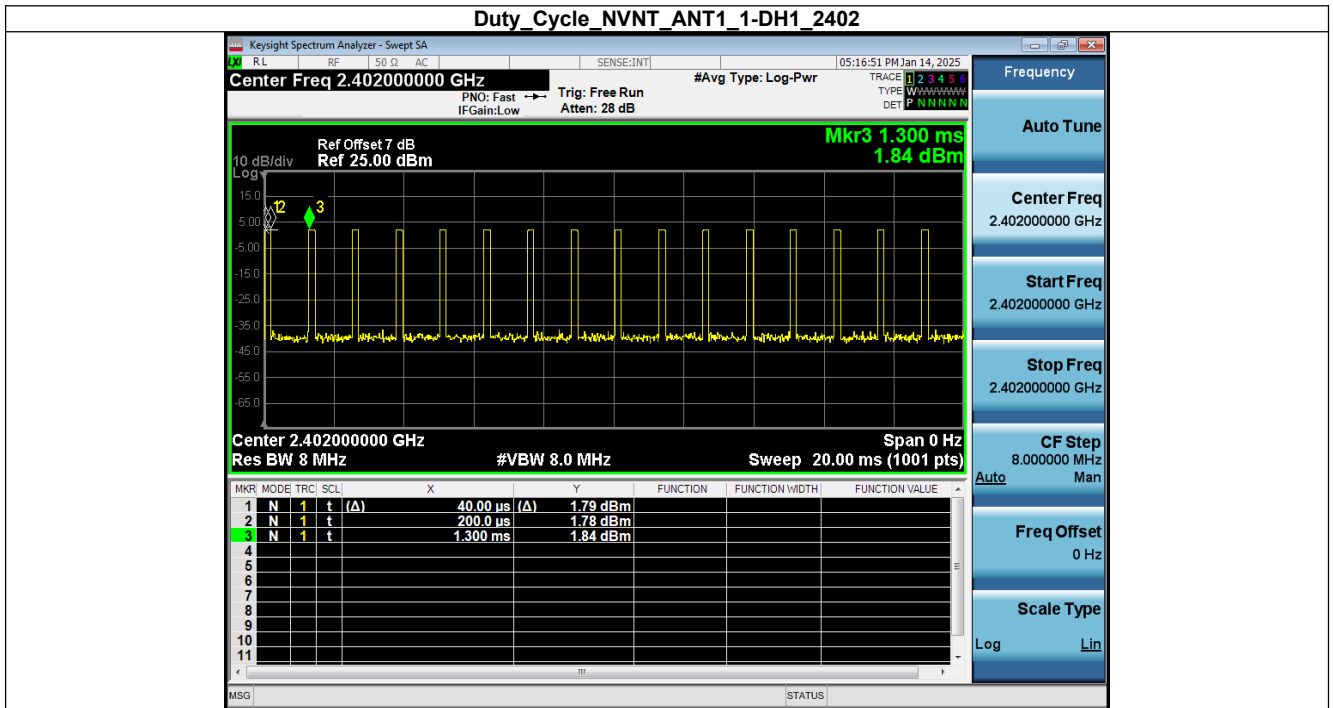
FCC ID:QIC-MSE12

IC:30055-MSE12

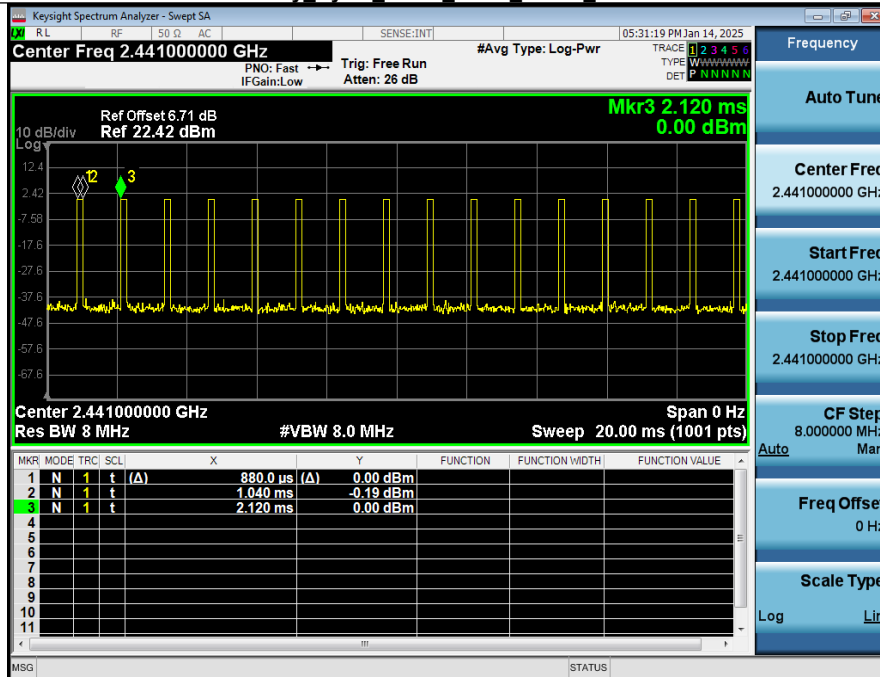
FCC_BT (Part15.247) Test Data

1. Duty Cycle

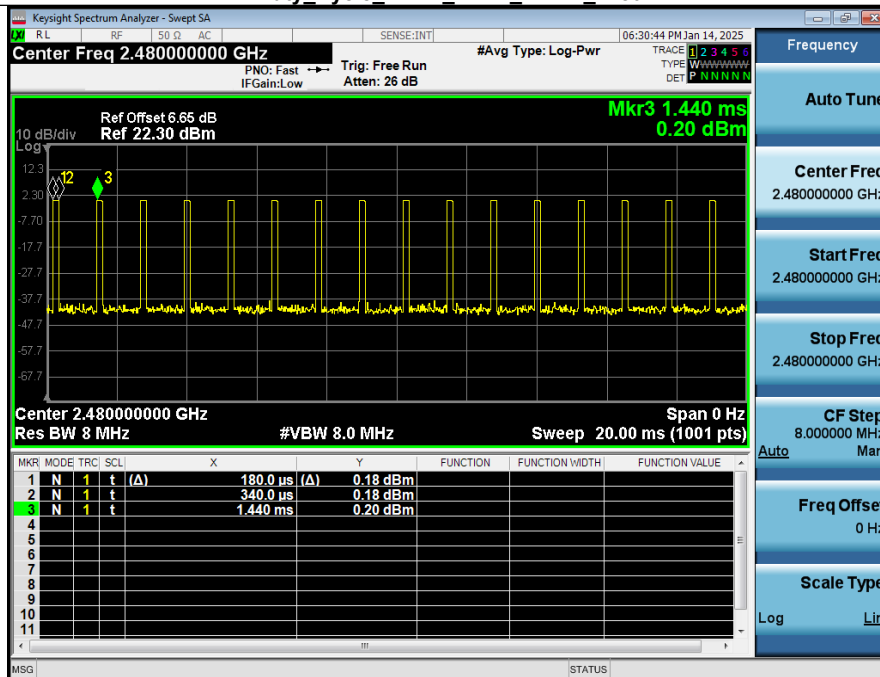
Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1-DH1	2402.00	12.70	8.96
NVNT	ANT1	1-DH1	2441.00	12.90	8.89
NVNT	ANT1	1-DH1	2480.00	12.70	8.96
NVNT	ANT1	2-DH1	2402.00	14.29	8.45
NVNT	ANT1	2-DH1	2441.00	14.29	8.45
NVNT	ANT1	2-DH1	2480.00	12.90	8.89
NVNT	ANT1	3-DH1	2402.00	12.90	8.89
NVNT	ANT1	3-DH1	2441.00	12.90	8.89
NVNT	ANT1	3-DH1	2480.00	12.70	8.96



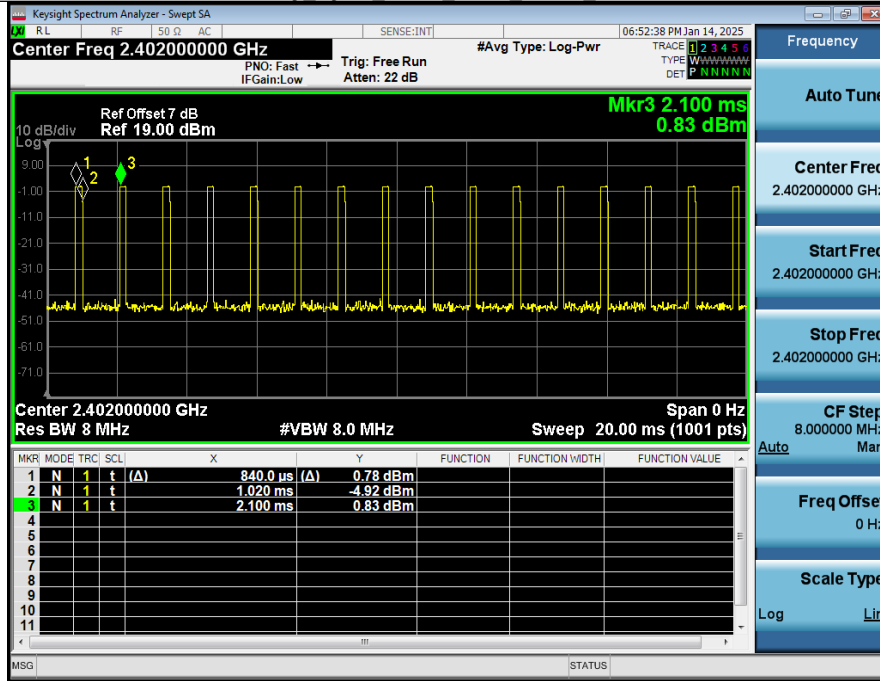
Duty Cycle_NVNT_ANT1_1-DH1_2441



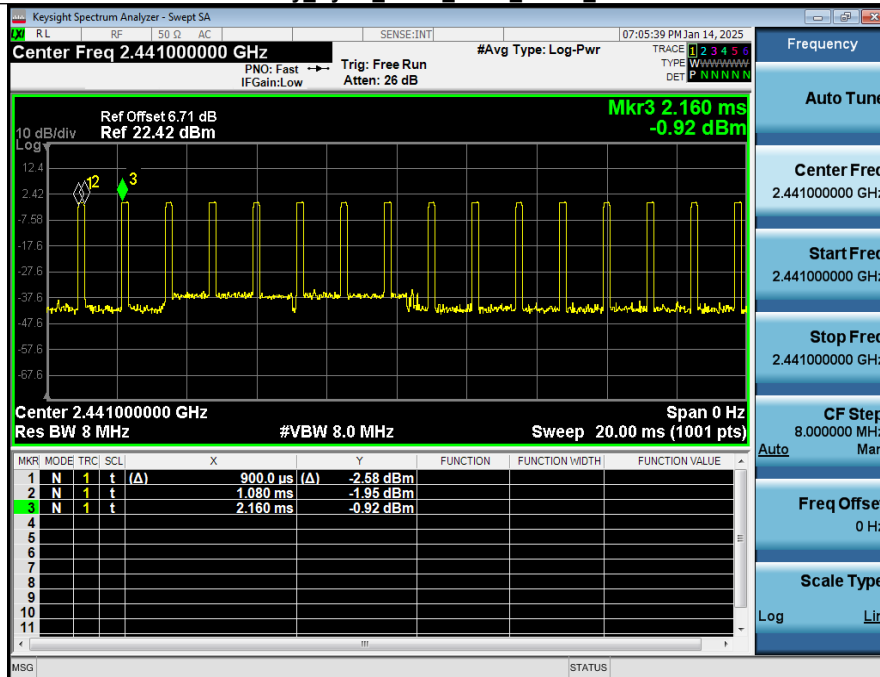
Duty Cycle_NVNT_ANT1_1-DH1_2480



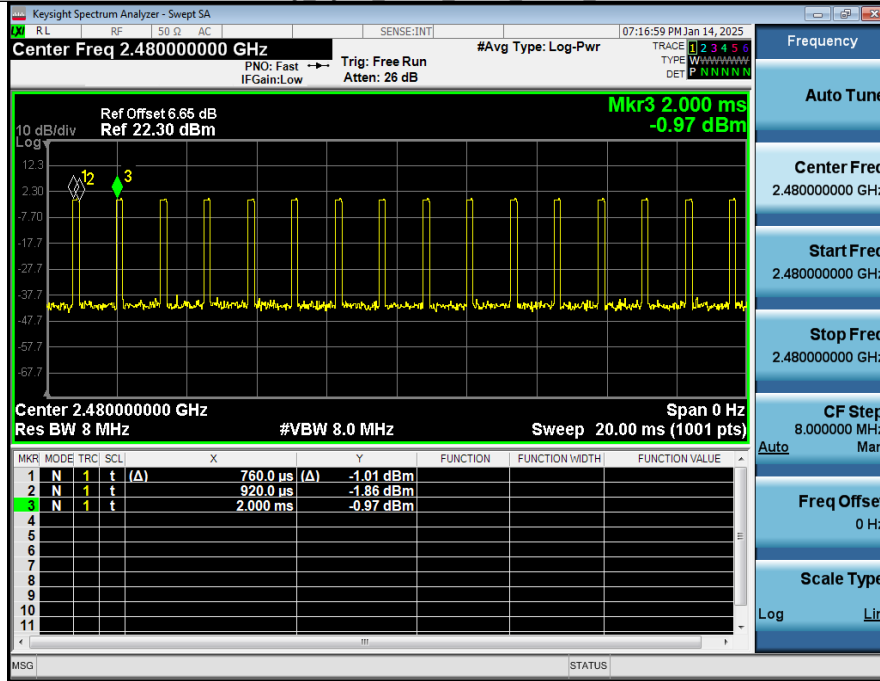
Duty Cycle_NVNT_ANT1_2-DH1_2402



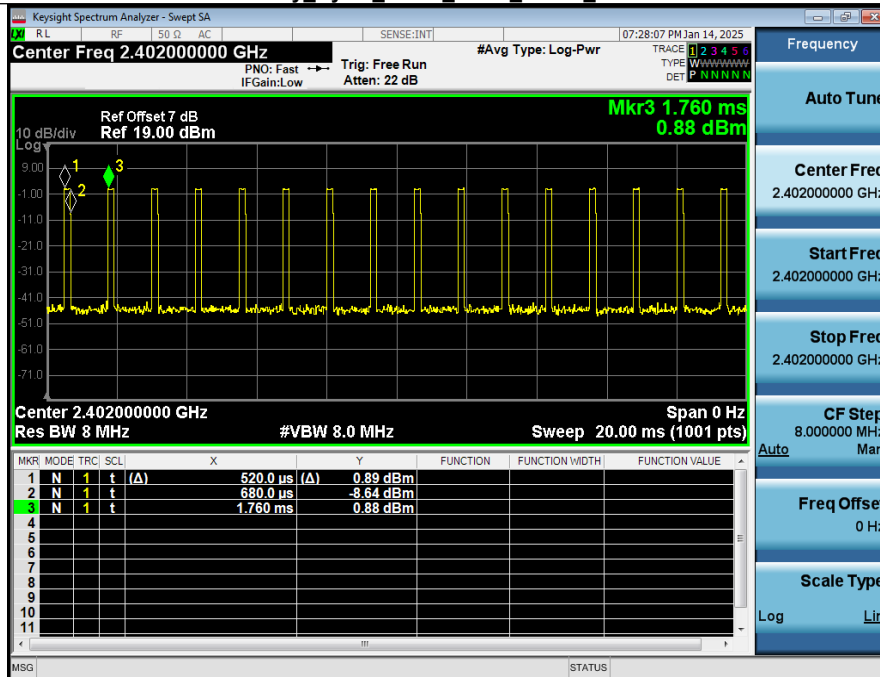
Duty Cycle_NVNT_ANT1_2-DH1_2441



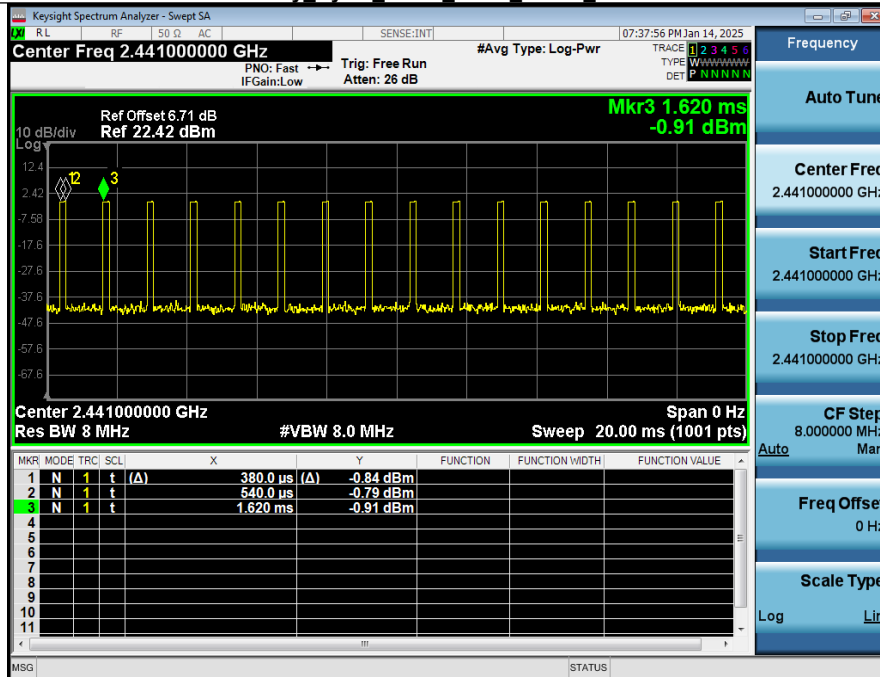
Duty Cycle NVNT_ANT1_2-DH1_2480



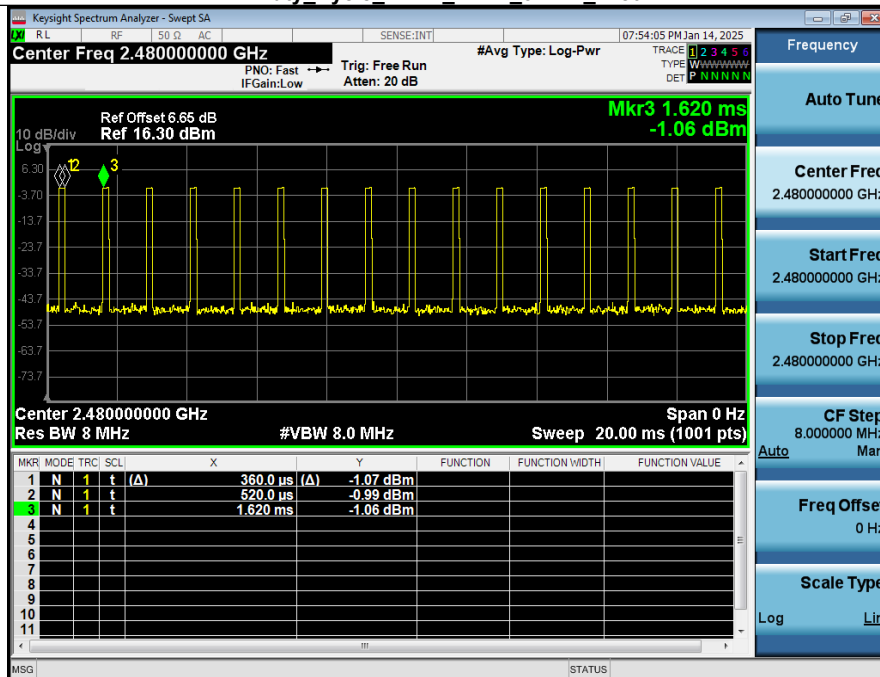
Duty Cycle NVNT_ANT1_3-DH1_2402



Duty Cycle_NVNT_ANT1_3-DH1_2441

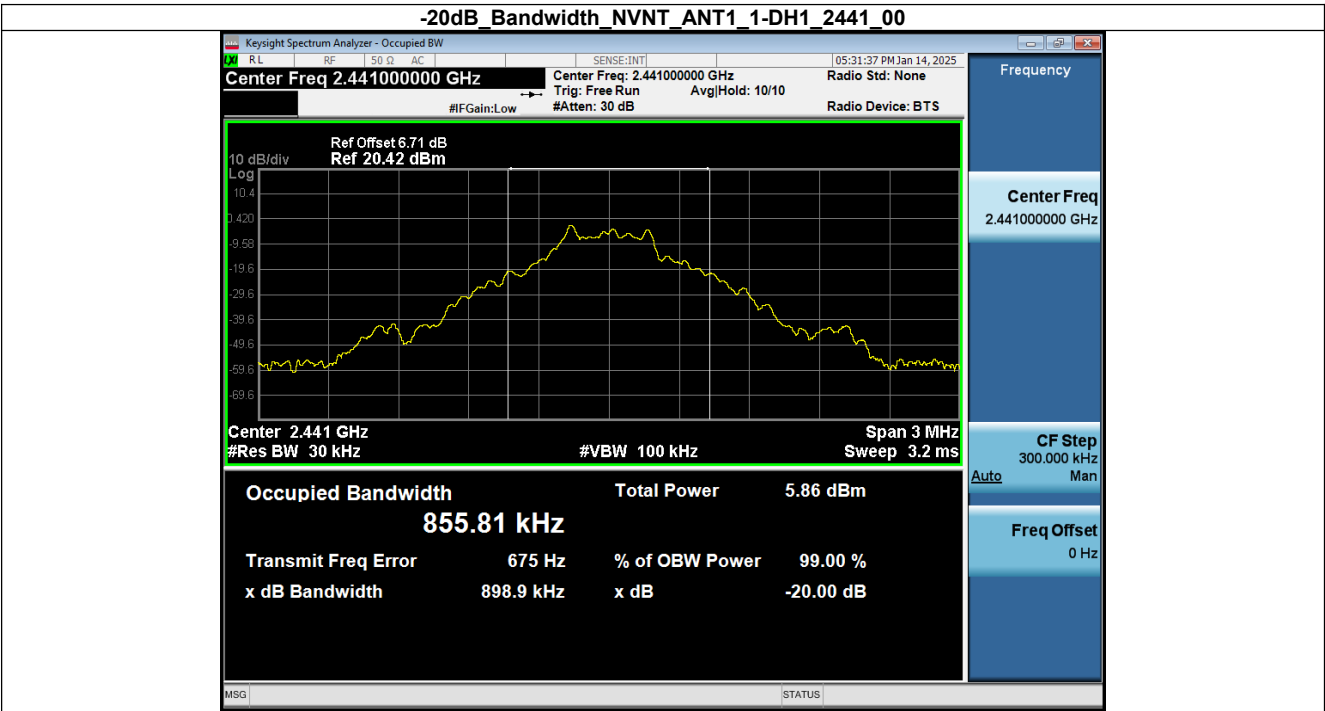


Duty Cycle_NVNT_ANT1_3-DH1_2480



2. -20dB Bandwidth

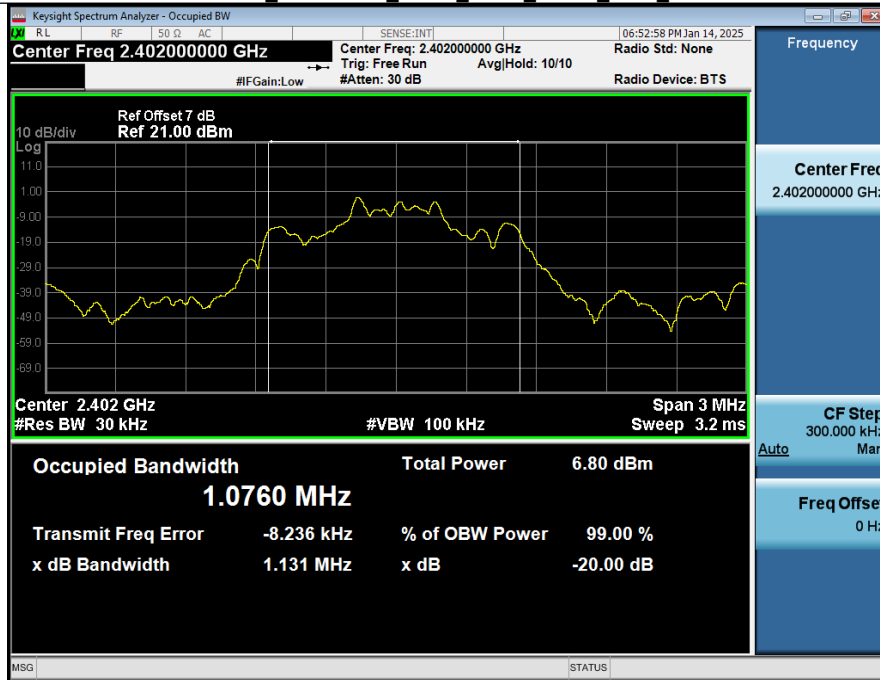
Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH1	2402.00	0.899	No
NVNT	ANT1	1-DH1	2441.00	0.899	No
NVNT	ANT1	1-DH1	2480.00	0.898	No
NVNT	ANT1	2-DH1	2402.00	1.131	Yes
NVNT	ANT1	2-DH1	2441.00	1.129	Yes
NVNT	ANT1	2-DH1	2480.00	1.129	Yes
NVNT	ANT1	3-DH1	2402.00	1.156	Yes
NVNT	ANT1	3-DH1	2441.00	1.159	Yes
NVNT	ANT1	3-DH1	2480.00	1.157	Yes



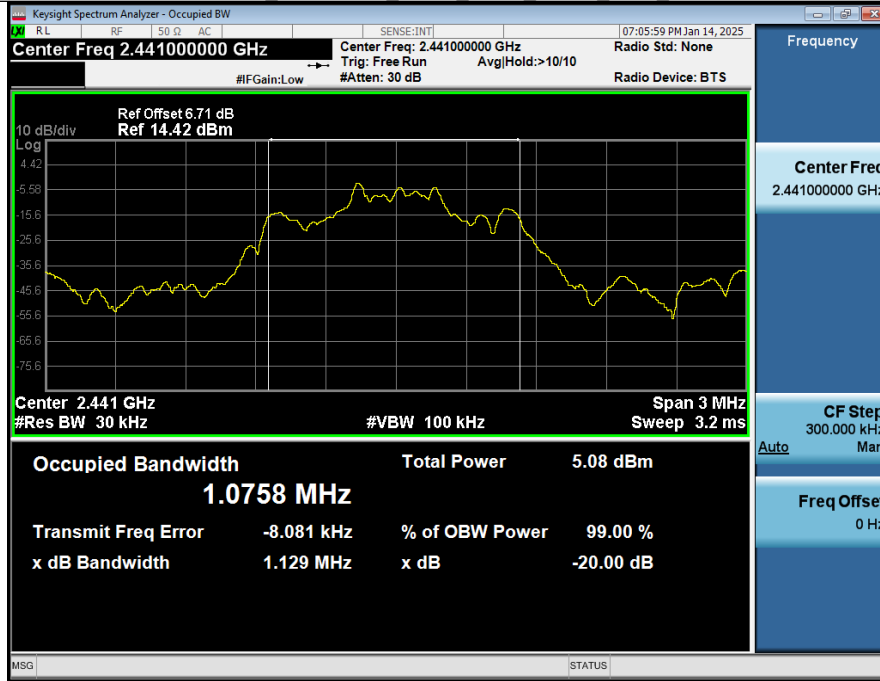
-20dB_Bandwidth_NVNT_ANT1_1-DH1_2480_00



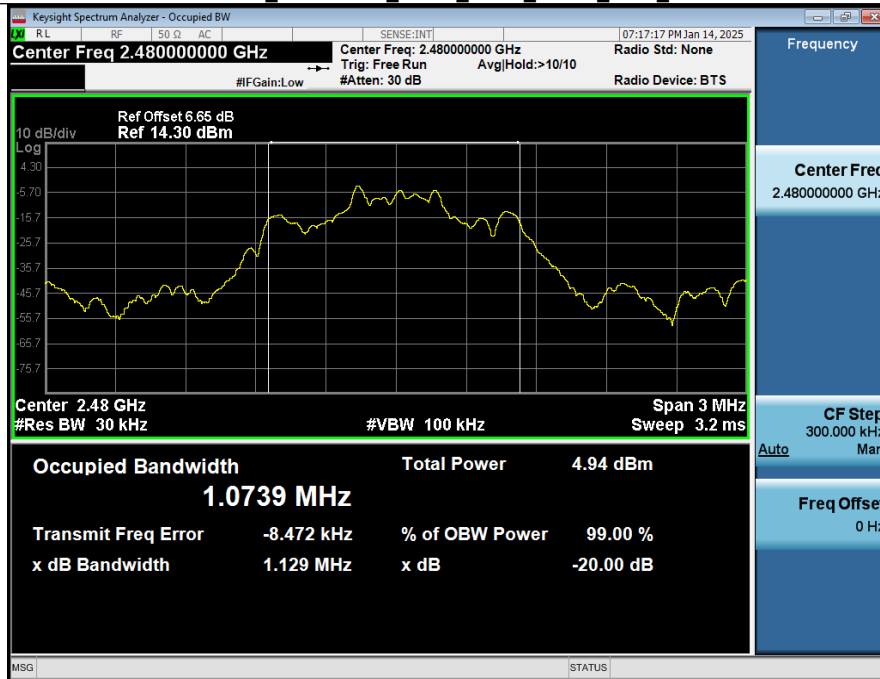
-20dB_Bandwidth_NVNT_ANT1_2-DH1_2402_00



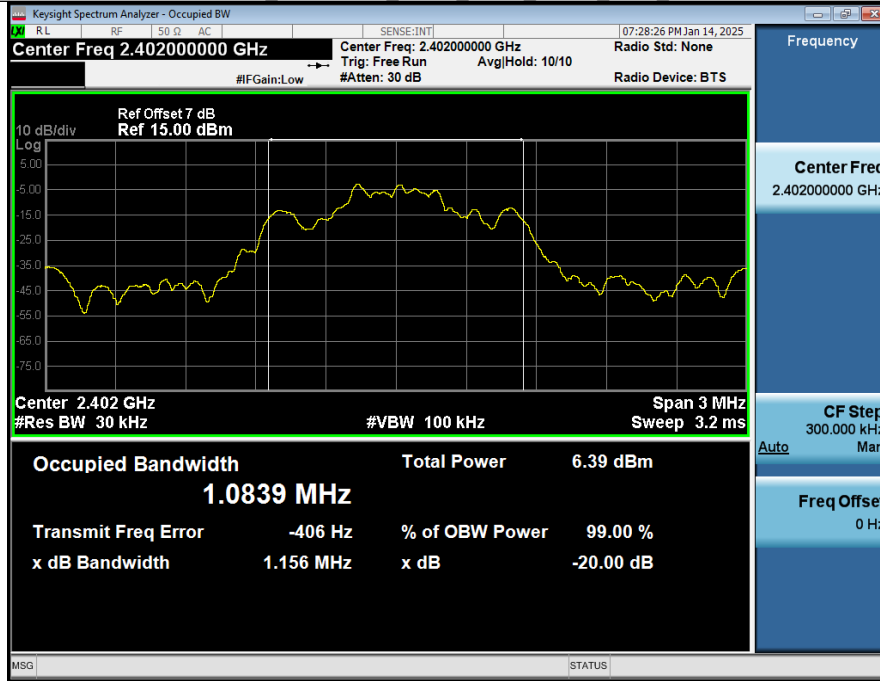
-20dB Bandwidth_NVNT_ANT1_2-DH1_2441_00



-20dB Bandwidth_NVNT_ANT1_2-DH1_2480_00



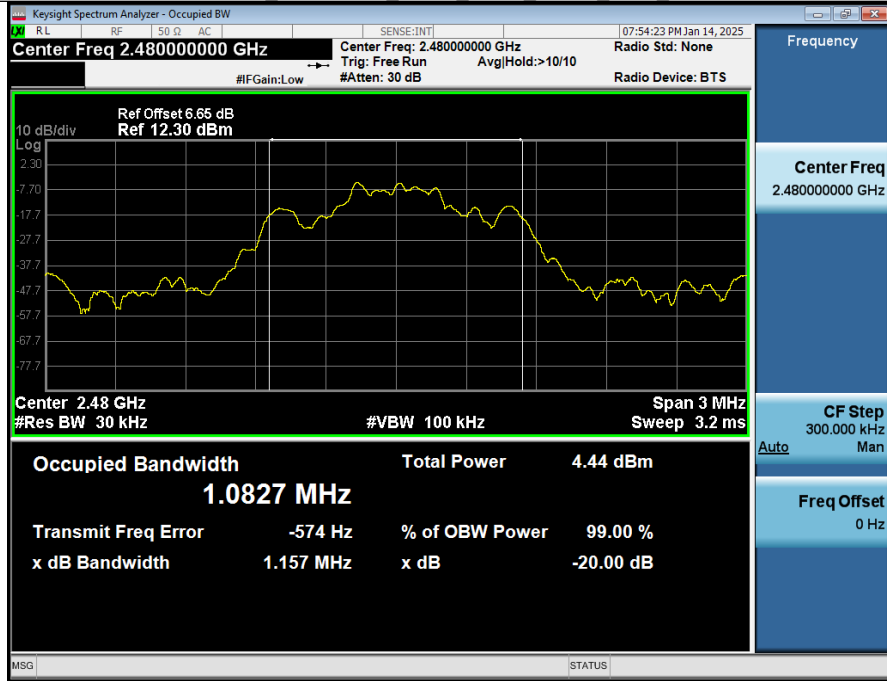
-20dB Bandwidth_NVNT_ANT1_3-DH1_2402_00



-20dB Bandwidth_NVNT_ANT1_3-DH1_2441_00

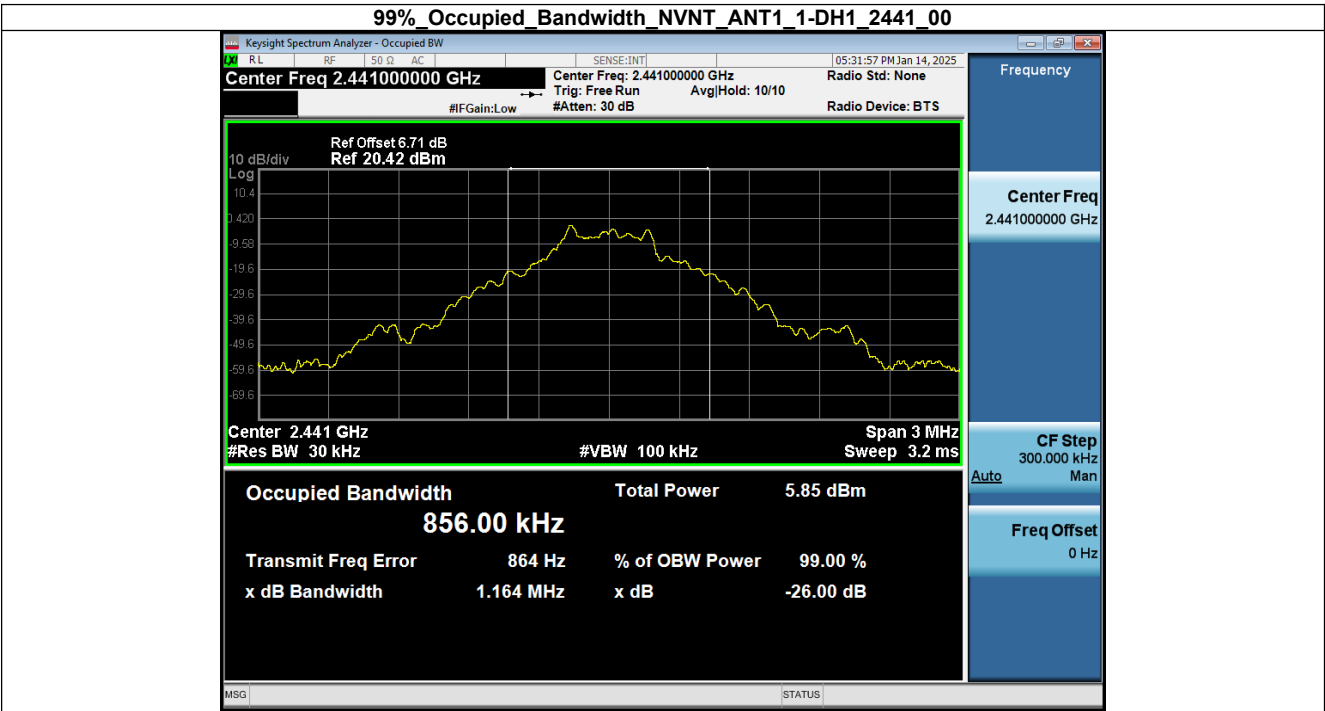


-20dB Bandwidth NVNT_ANT1_3-DH1_2480_00



3. 99% Occupied Bandwidth

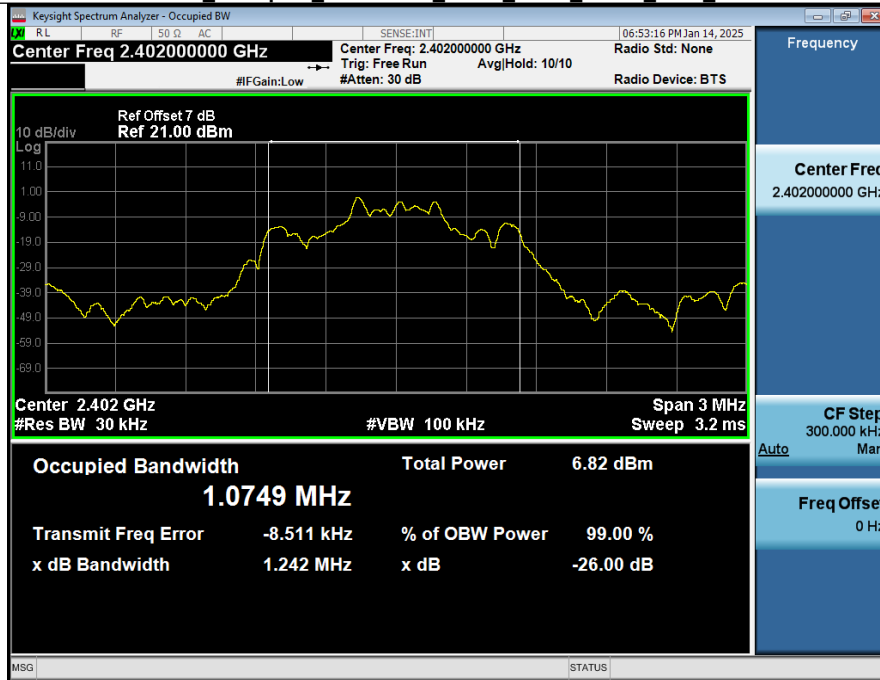
Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	1-DH1	2402.00	0.853
NVNT	ANT1	1-DH1	2441.00	0.856
NVNT	ANT1	1-DH1	2480.00	0.859
NVNT	ANT1	2-DH1	2402.00	1.075
NVNT	ANT1	2-DH1	2441.00	1.075
NVNT	ANT1	2-DH1	2480.00	1.074
NVNT	ANT1	3-DH1	2402.00	1.084
NVNT	ANT1	3-DH1	2441.00	1.084
NVNT	ANT1	3-DH1	2480.00	1.082



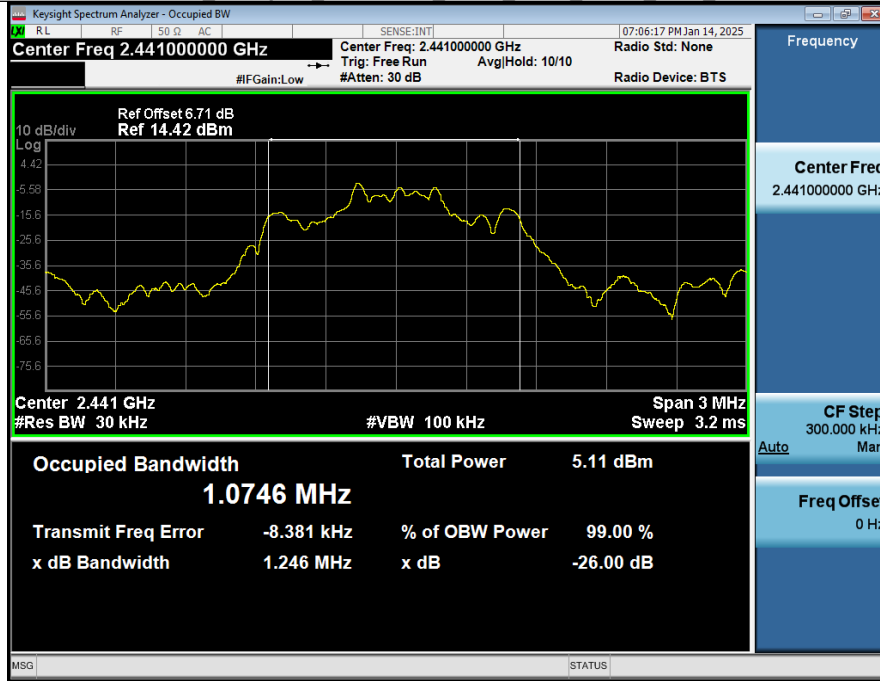
99% Occupied Bandwidth NVNT_ANT1_1-DH1_2480_00



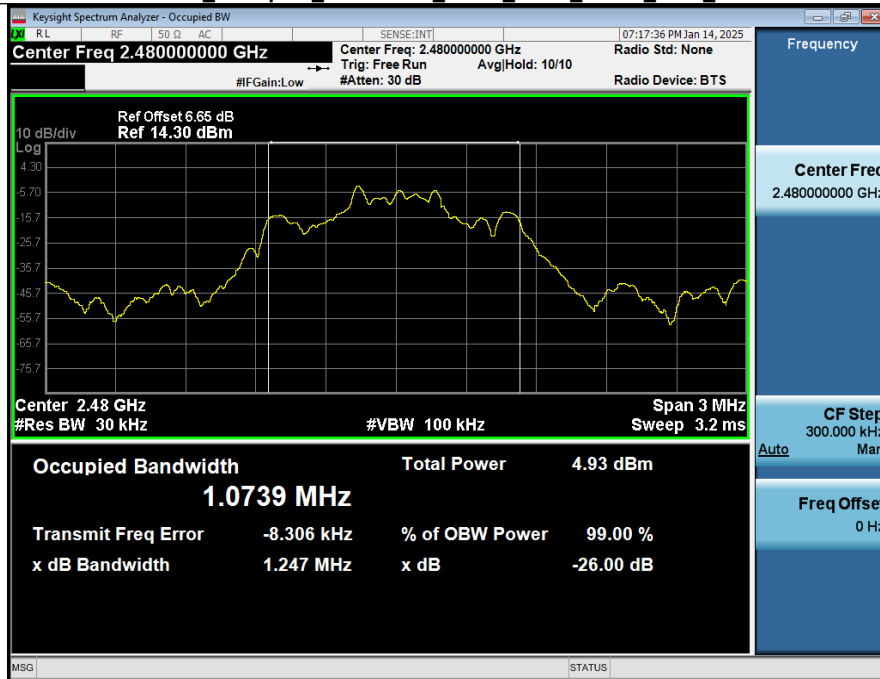
99% Occupied Bandwidth NVNT_ANT1_2-DH1_2402_00



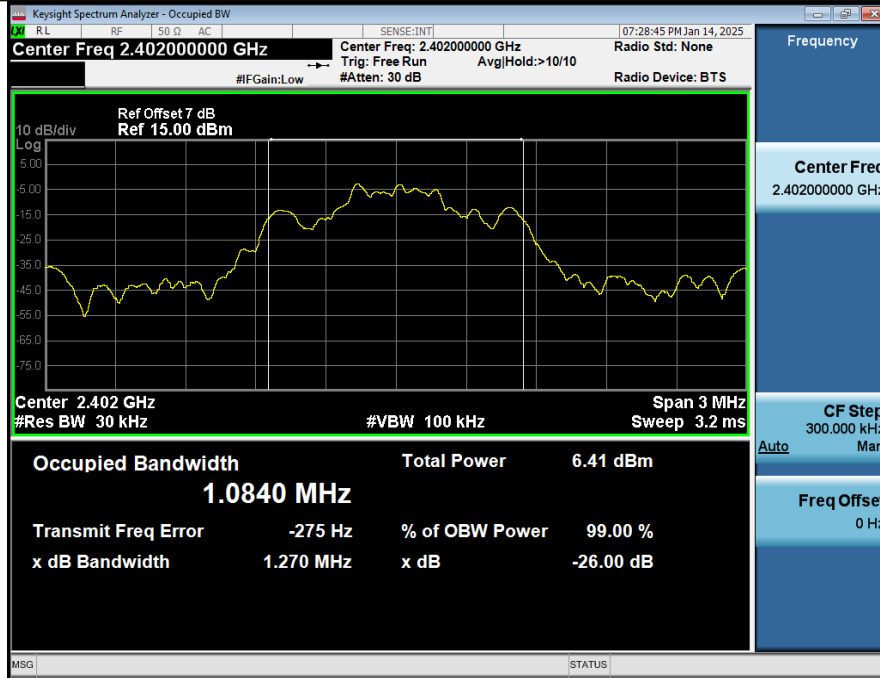
99% Occupied Bandwidth_NVNT_ANT1_2-DH1_2441_00



99% Occupied Bandwidth_NVNT_ANT1_2-DH1_2480_00



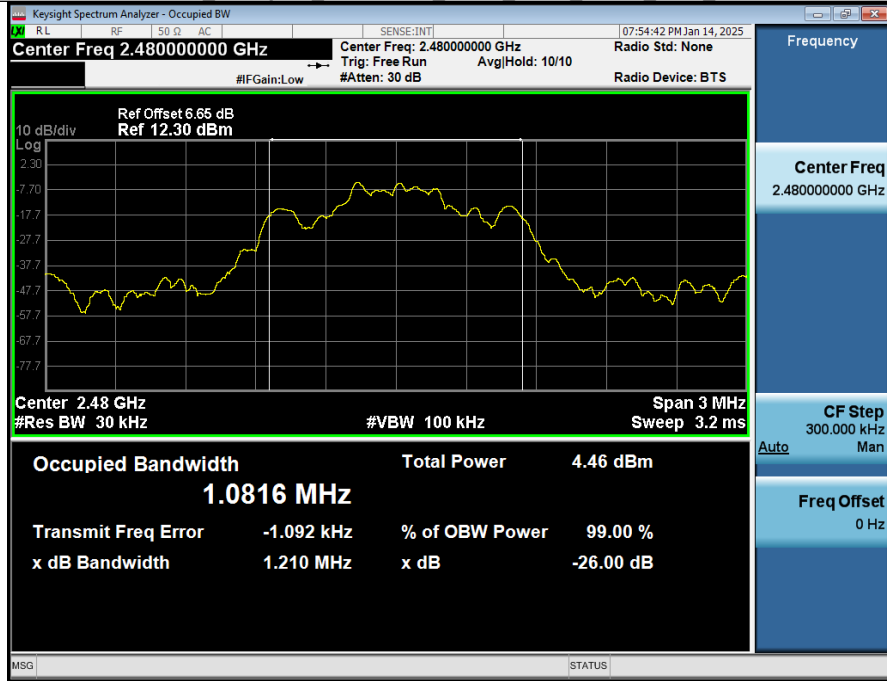
99% Occupied Bandwidth NVNT_ANT1_3-DH1_2402_00



99% Occupied Bandwidth NVNT_ANT1_3-DH1_2441_00

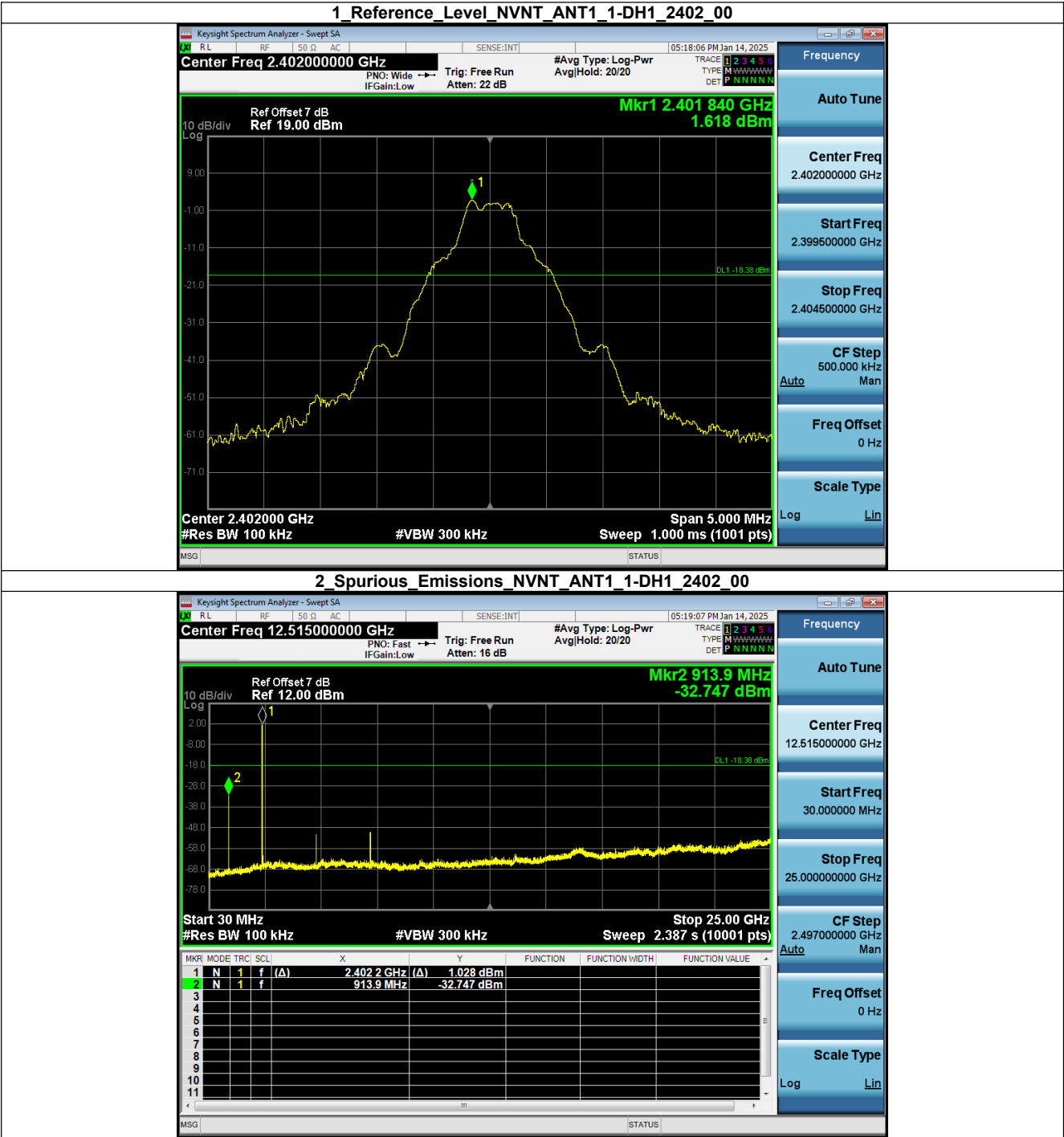


99% Occupied Bandwidth_NVNT_ANT1_3-DH1_2480_00



5. Spurious Emissions

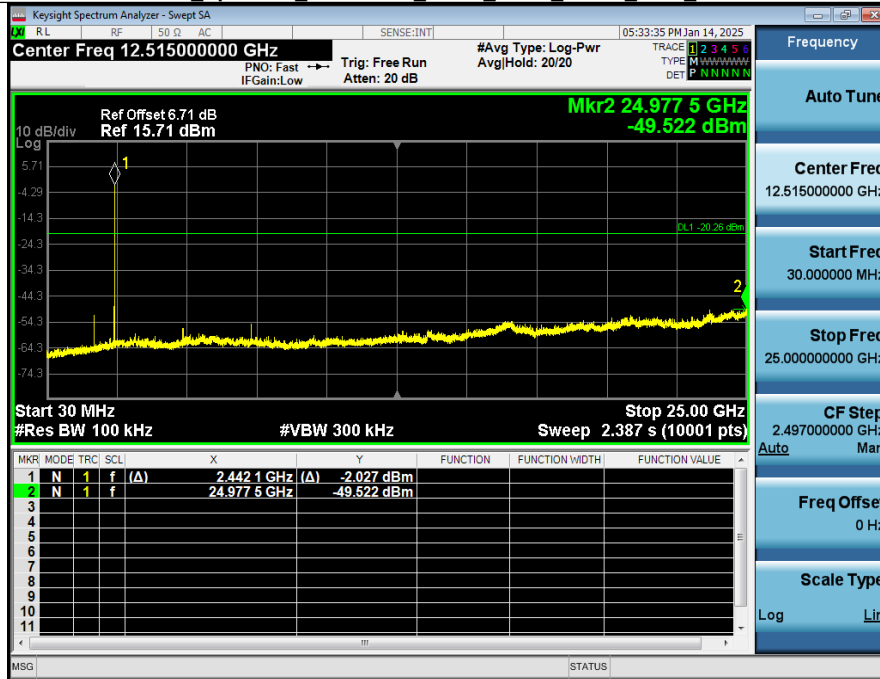
Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH1	2402.00	1.618	-32.747	-18.382	Pass
NVNT	ANT1	1-DH1	2441.00	-0.261	-49.522	-20.261	Pass
NVNT	ANT1	1-DH1	2480.00	-0.128	-49.201	-20.128	Pass
NVNT	ANT1	2-DH1	2402.00	0.650	-48.813	-19.350	Pass
NVNT	ANT1	2-DH1	2441.00	-1.061	-54.616	-21.061	Pass
NVNT	ANT1	2-DH1	2480.00	-1.252	-53.972	-21.252	Pass
NVNT	ANT1	3-DH1	2402.00	0.677	-49.251	-19.323	Pass
NVNT	ANT1	3-DH1	2441.00	-1.032	-54.803	-21.032	Pass
NVNT	ANT1	3-DH1	2480.00	-1.266	-54.913	-21.266	Pass



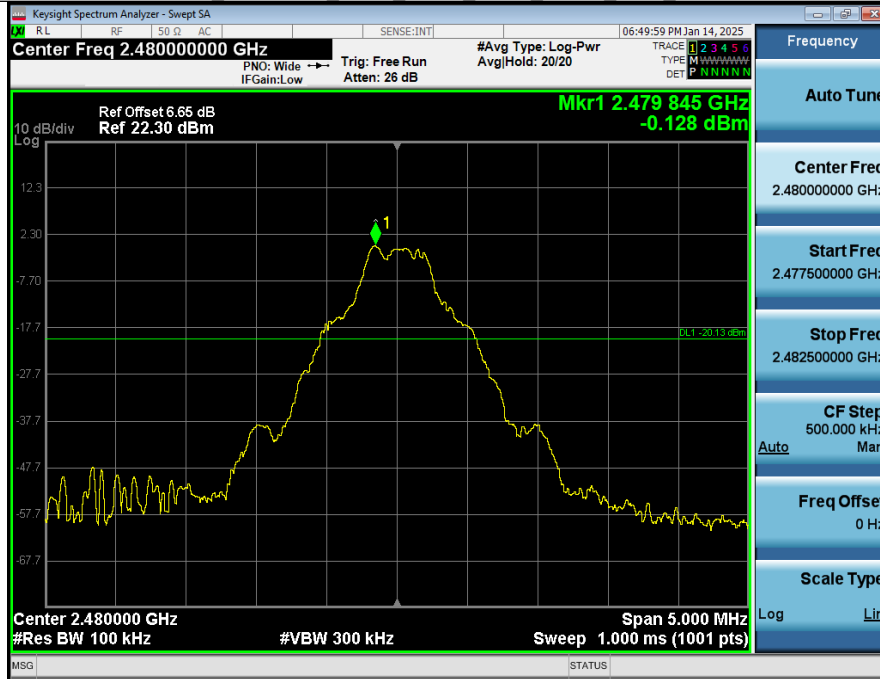
1 Reference_Level_NVNT_ANT1_1-DH1_2441_00



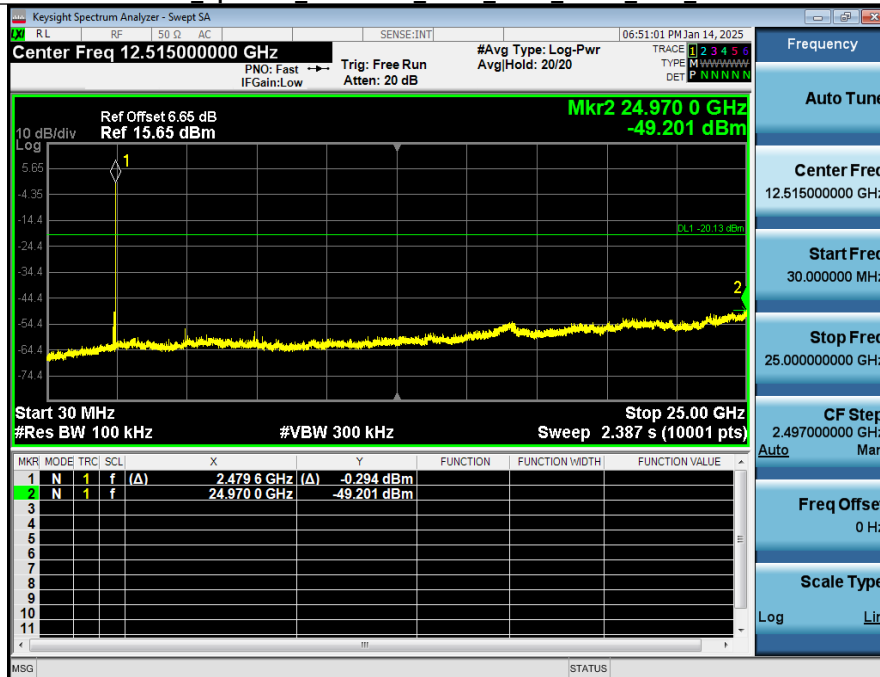
2 Spurious_Emissions_NVNT_ANT1_1-DH1_2441_00



1 Reference Level NVNT ANT1 1-DH1 2480 00



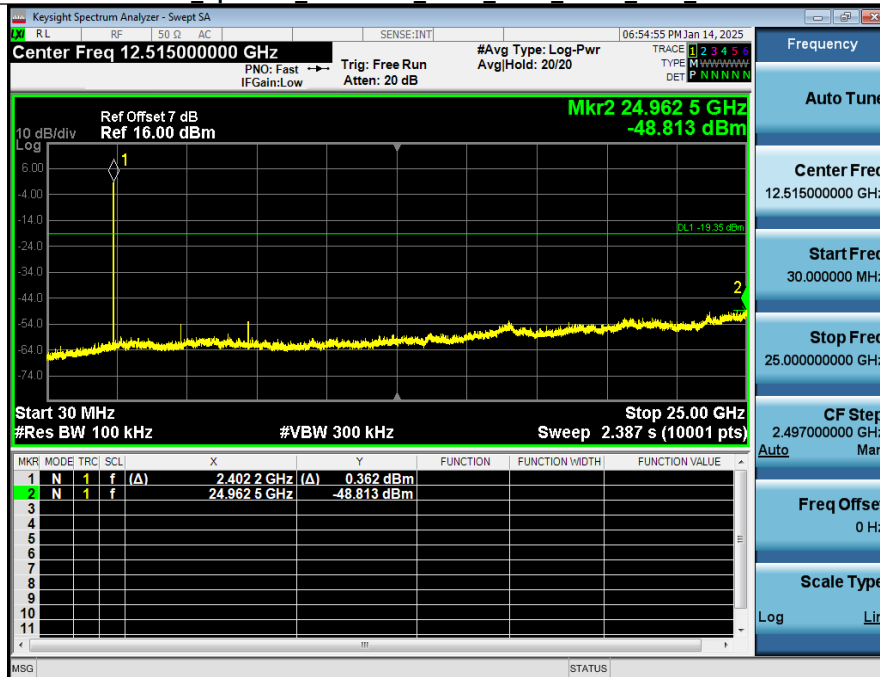
2 Spurious Emissions NVNT ANT1 1-DH1 2480 00



1 Reference Level NVNT ANT1 2-DH1 2402 00



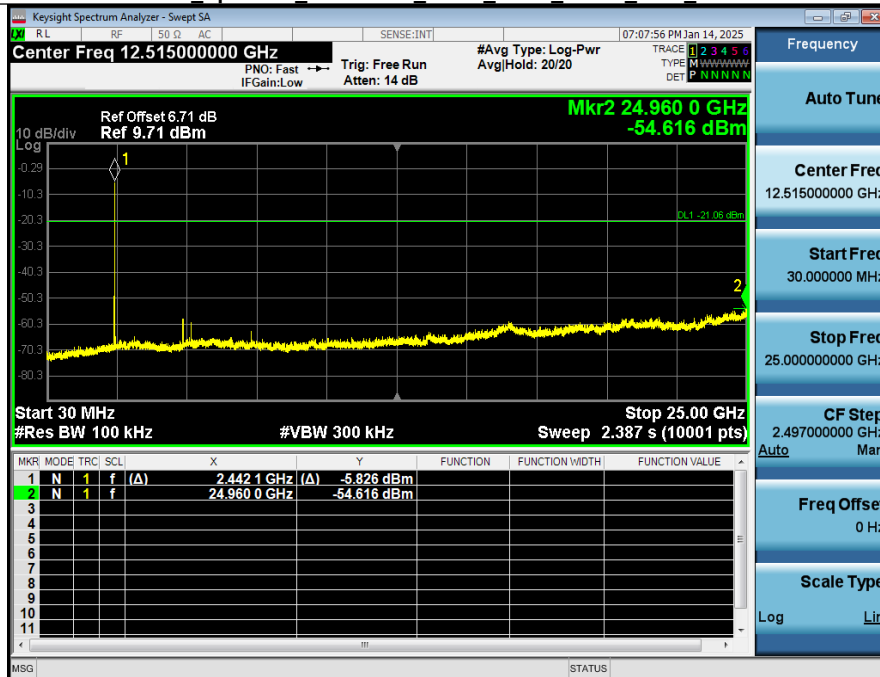
2 Spurious Emissions NVNT ANT1 2-DH1 2402 00



1 Reference Level NVNT_ANT1_2-DH1_2441_00



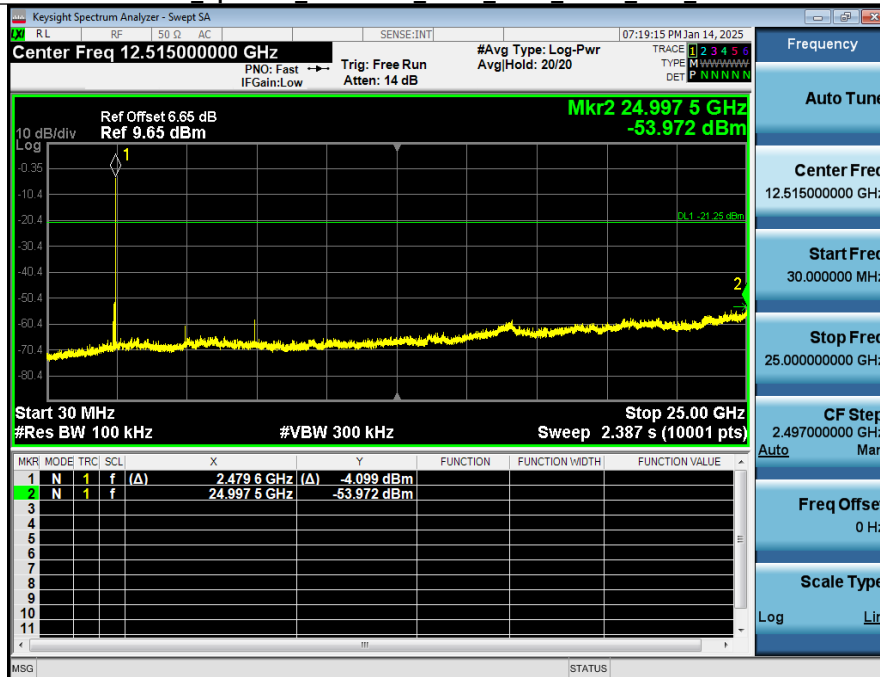
2 Spurious Emissions NVNT_ANT1_2-DH1_2441_00



1 Reference Level NVNT ANT1 2-DH1 2480 00



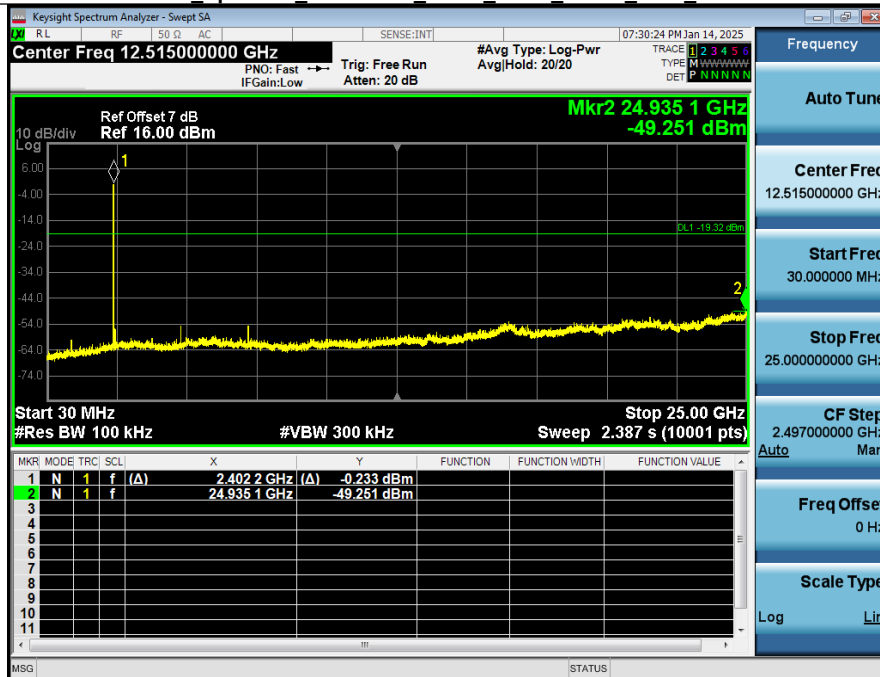
2 Spurious Emissions NVNT ANT1 2-DH1 2480 00



1 Reference Level NVNT_ANT1_3-DH1_2402_00



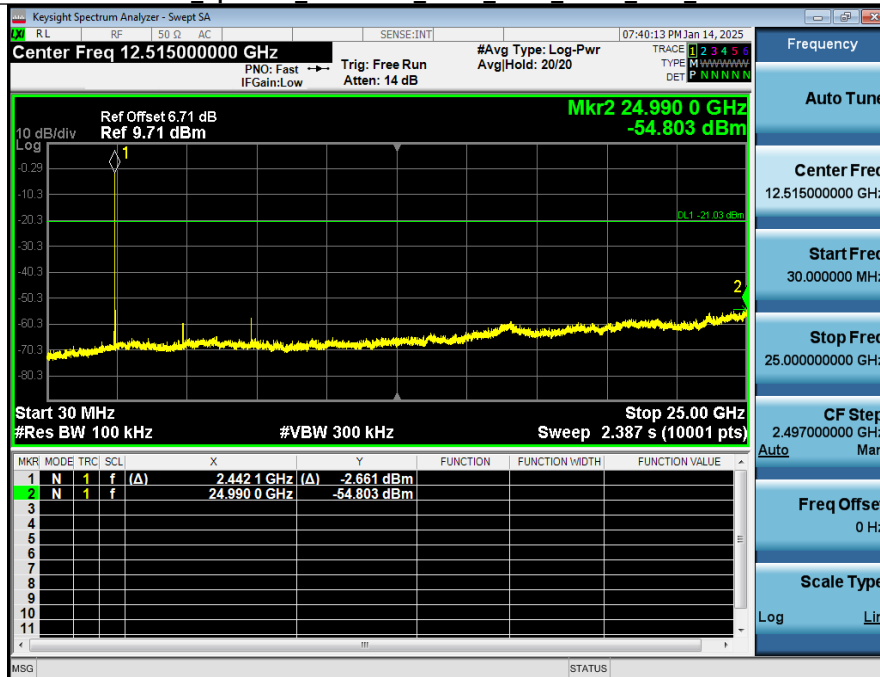
2 Spurious Emissions NVNT_ANT1_3-DH1_2402_00



1 Reference Level NVNT ANT1 3-DH1 2441 00



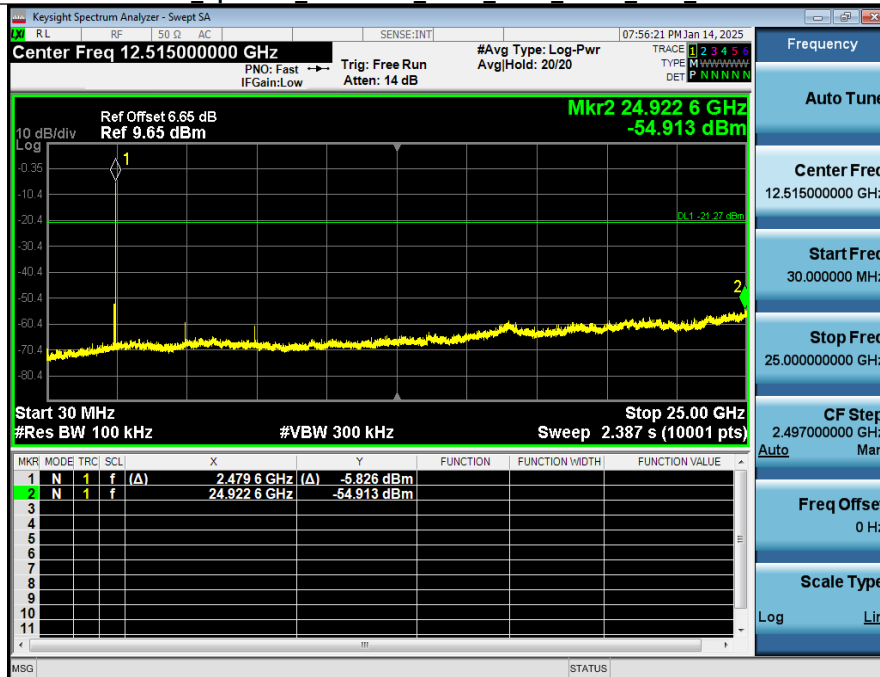
2 Spurious Emissions NVNT ANT1 3-DH1 2441 00



1 Reference Level NVNT ANT1 3-DH1 2480 00

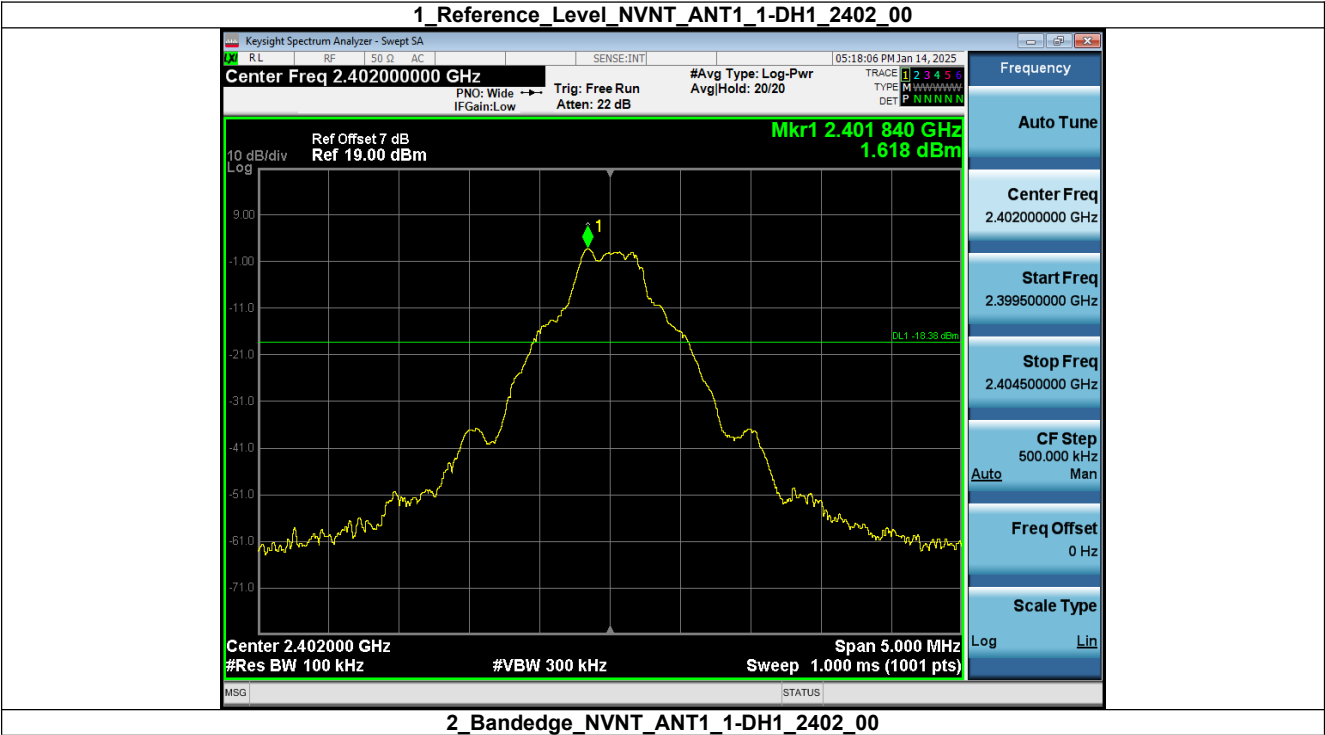


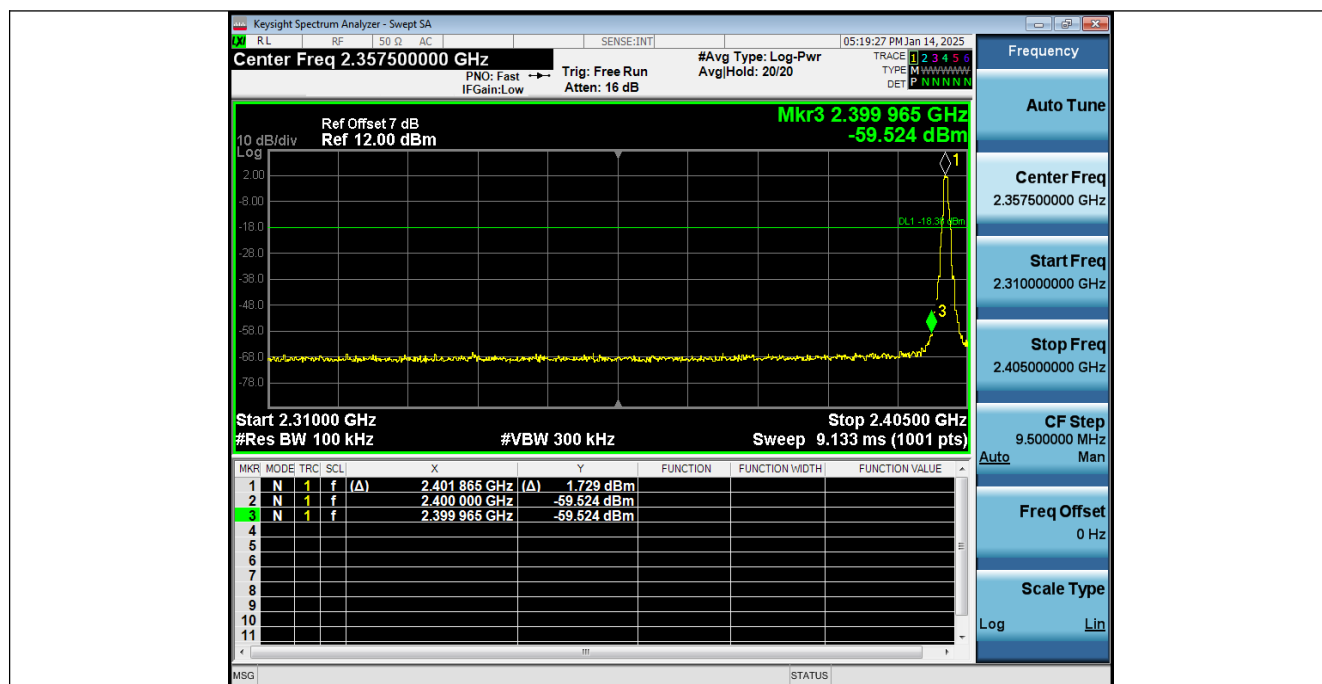
2 Spurious Emissions NVNT ANT1 3-DH1 2480 00



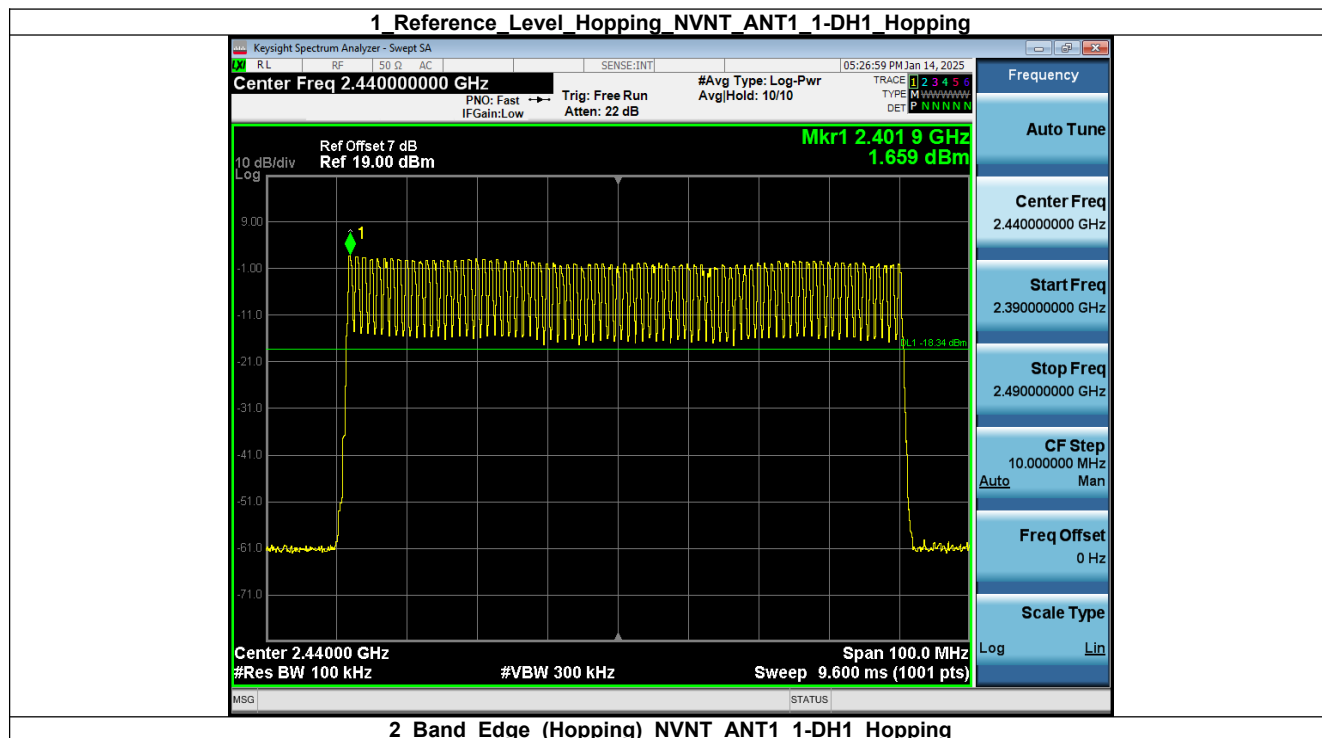
6. Bandedge

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Bandedge MAX.Value	Limit	Result
NVNT	ANT1	1-DH1	2402.00	1.618	-59.524	-18.382	Pass
NVNT	ANT1	1-DH1	Hopping_LCH	1.659	-60.996	-18.341	Pass
NVNT	ANT1	1-DH1	2480.00	-0.095	-62.099	-20.095	Pass
NVNT	ANT1	1-DH1	Hopping_HCH	1.183	-60.910	-18.817	Pass
NVNT	ANT1	2-DH1	2402.00	0.650	-57.109	-19.350	Pass
NVNT	ANT1	2-DH1	Hopping_LCH	0.608	-58.997	-19.392	Pass
NVNT	ANT1	2-DH1	2480.00	-1.252	-62.820	-21.252	Pass
NVNT	ANT1	2-DH1	Hopping_HCH	0.273	-61.957	-19.727	Pass
NVNT	ANT1	3-DH1	2402.00	0.677	-54.484	-19.323	Pass
NVNT	ANT1	3-DH1	Hopping_LCH	0.685	-59.458	-19.315	Pass
NVNT	ANT1	3-DH1	2480.00	-1.266	-61.586	-21.266	Pass
NVNT	ANT1	3-DH1	Hopping_HCH	0.341	-64.529	-19.659	Pass

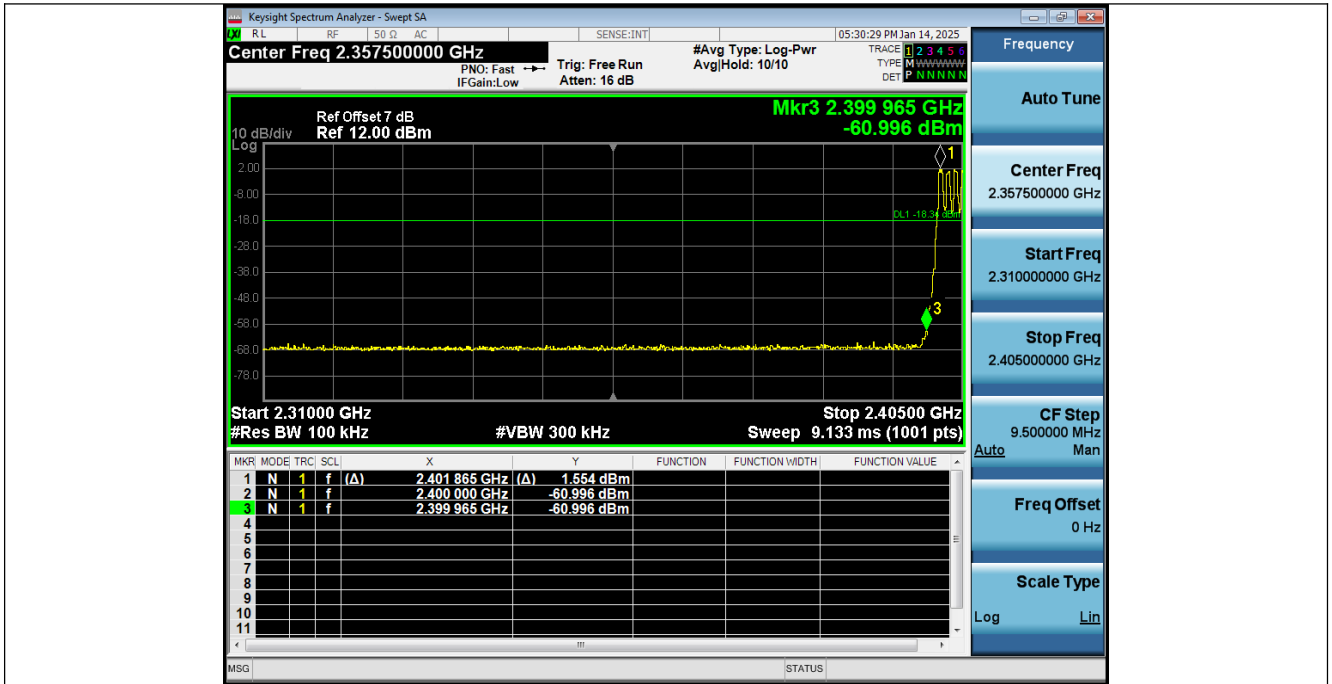




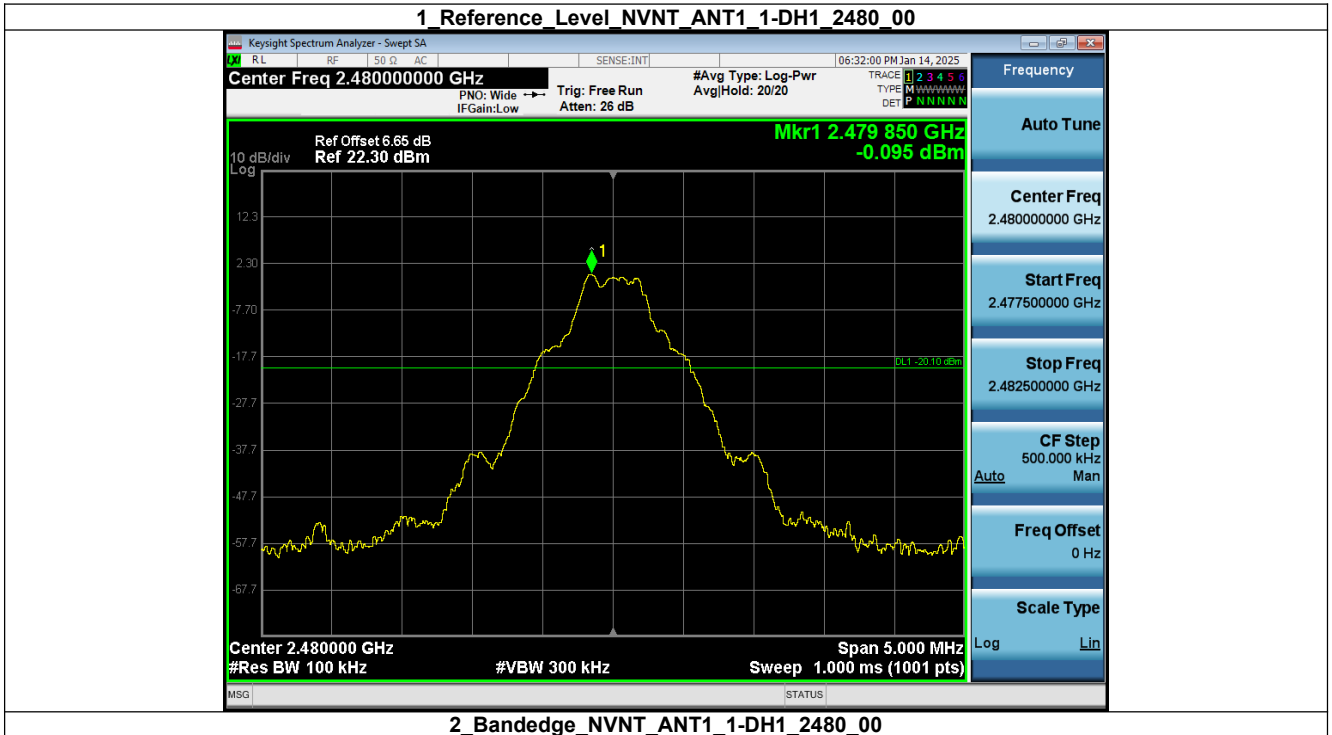
1 Reference_Level_Hopping_NVNT_ANT1_1-DH1_Hopping



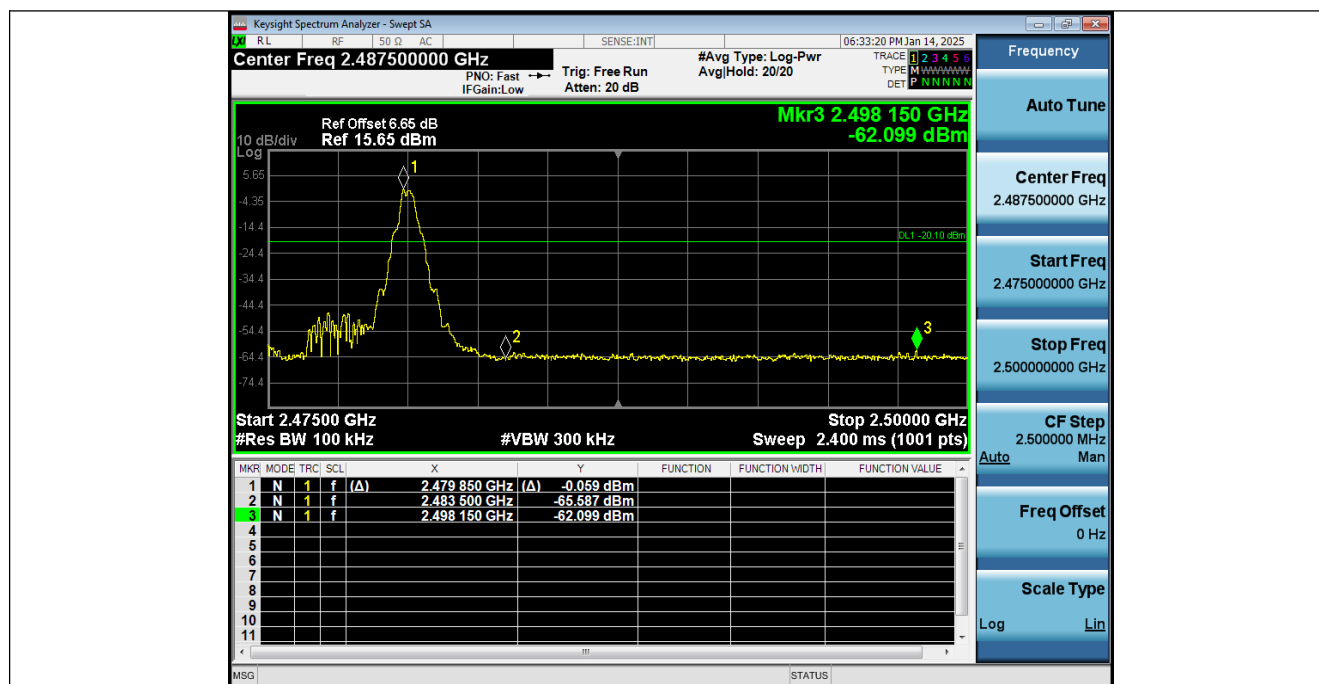
2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH1_Hopping



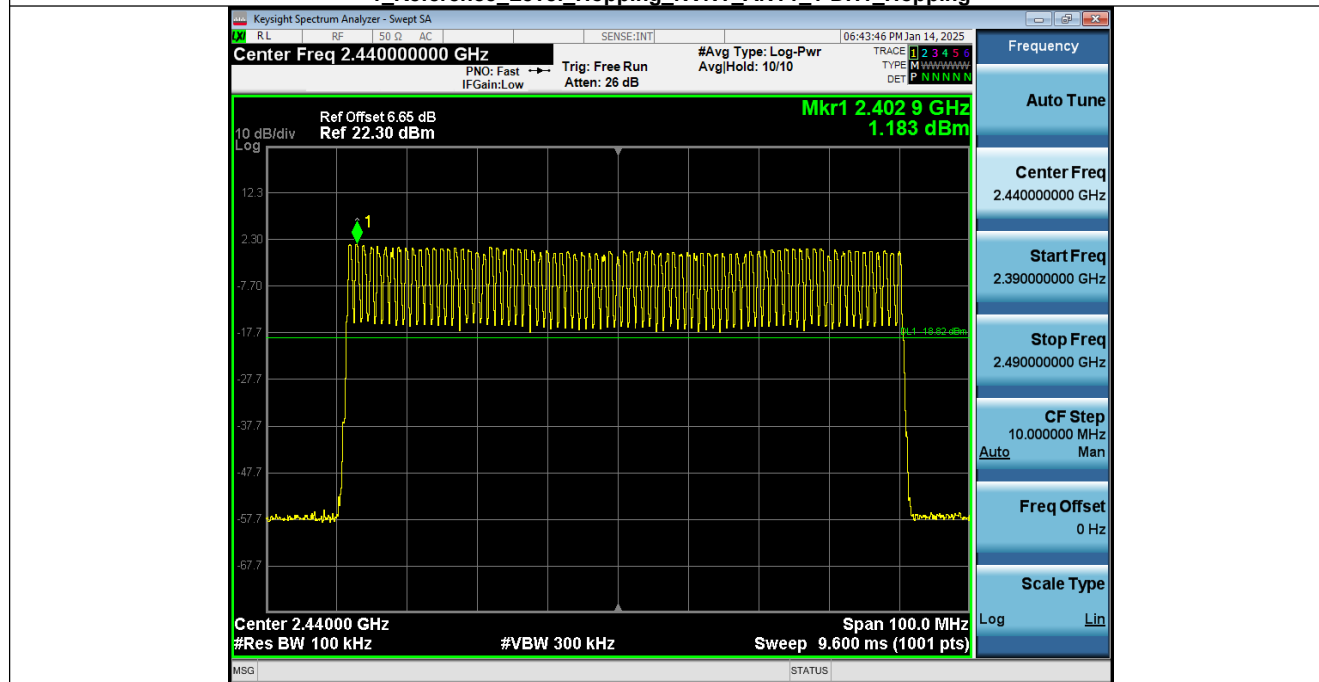
1_Reference_Level_NVNT_ANT1_1-DH1_2480_00



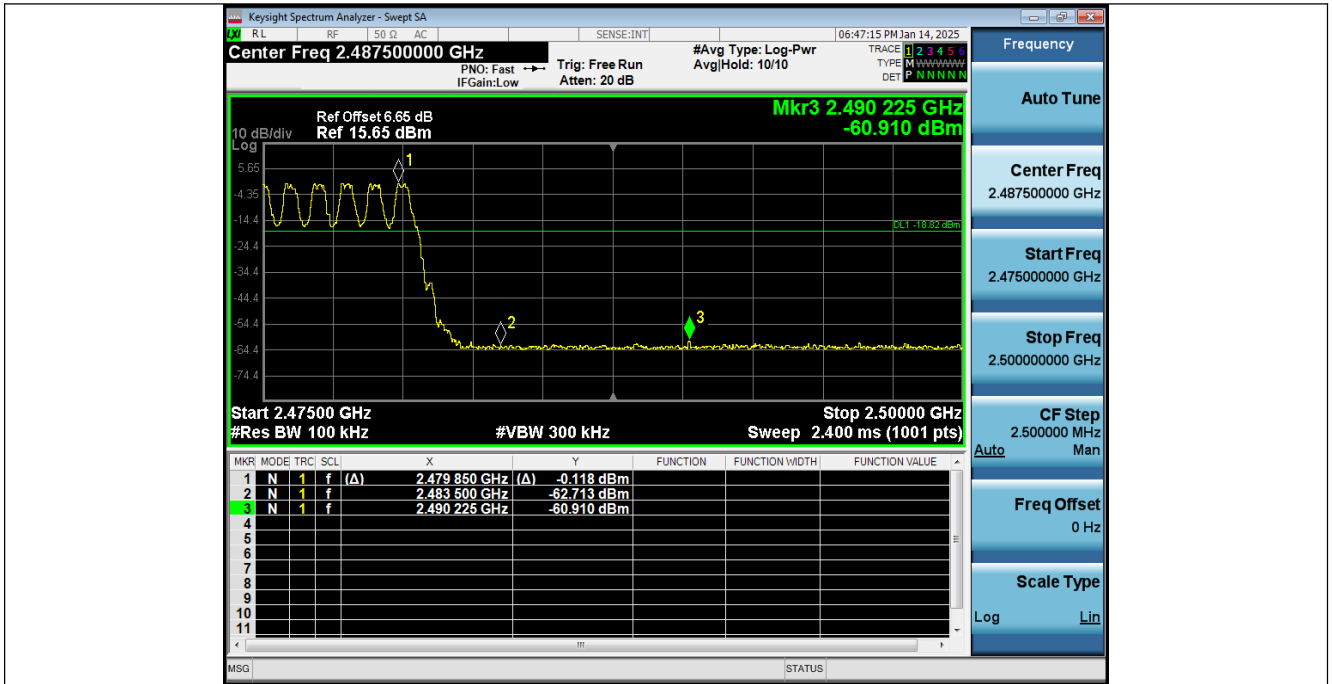
2_Bandedge_NVNT_ANT1_1-DH1_2480_00



1 Reference_Level_Hopping_NVNT_ANT1_1-DH1_Hopping



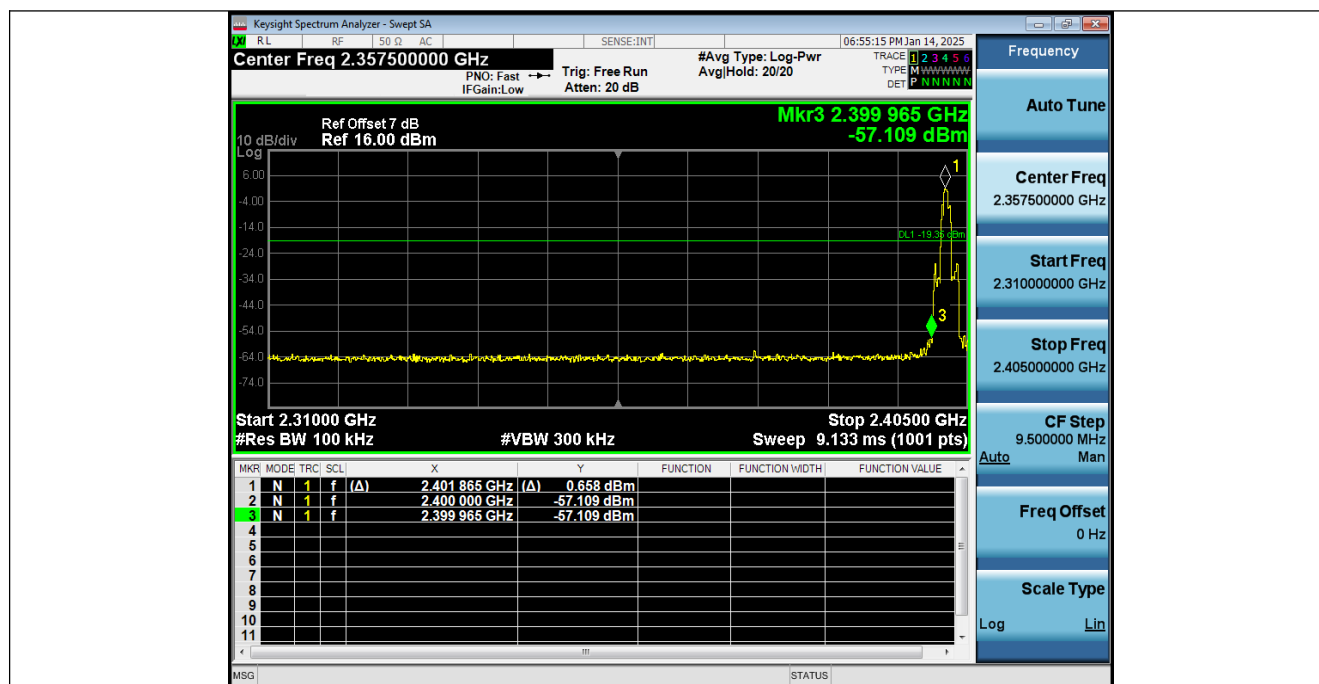
2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH1_Hopping



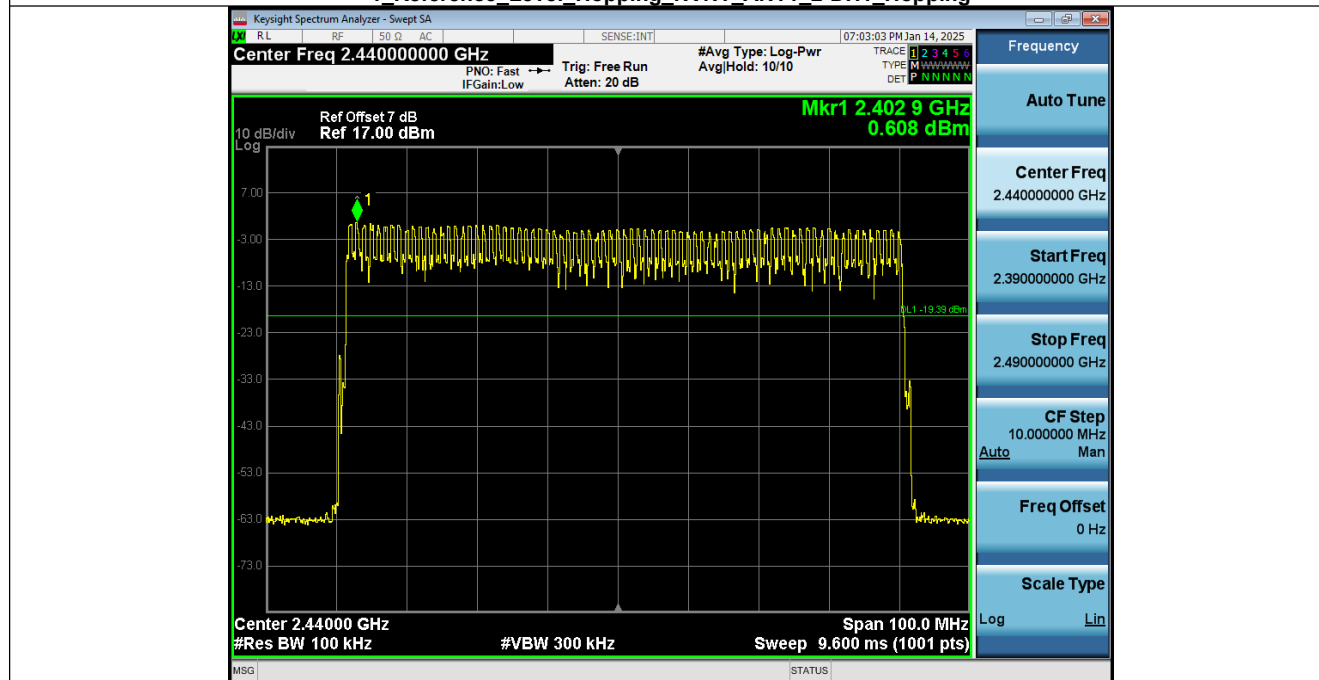
1 Reference_Level_NVNT_ANT1_2-DH1_2402_00



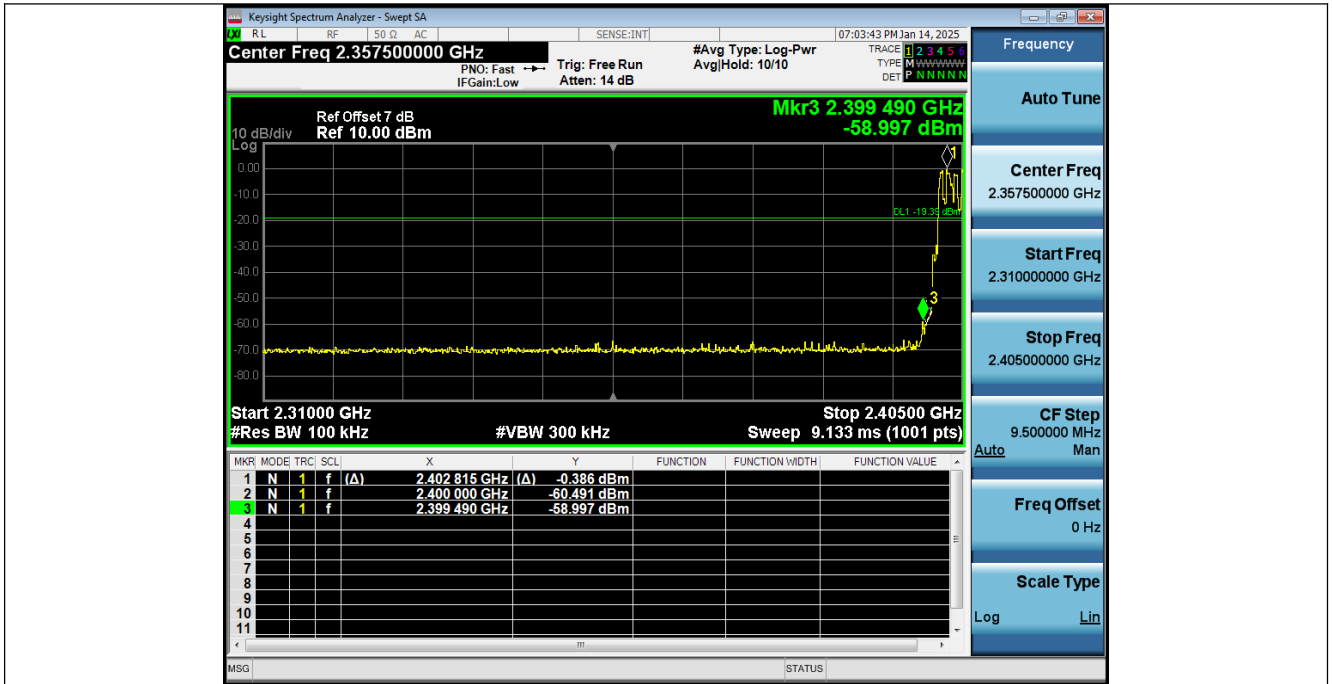
2_Bandedge_NVNT_ANT1_2-DH1_2402_00



1 Reference_Level_Hopping_NVNT_ANT1_2-DH1_Hopping



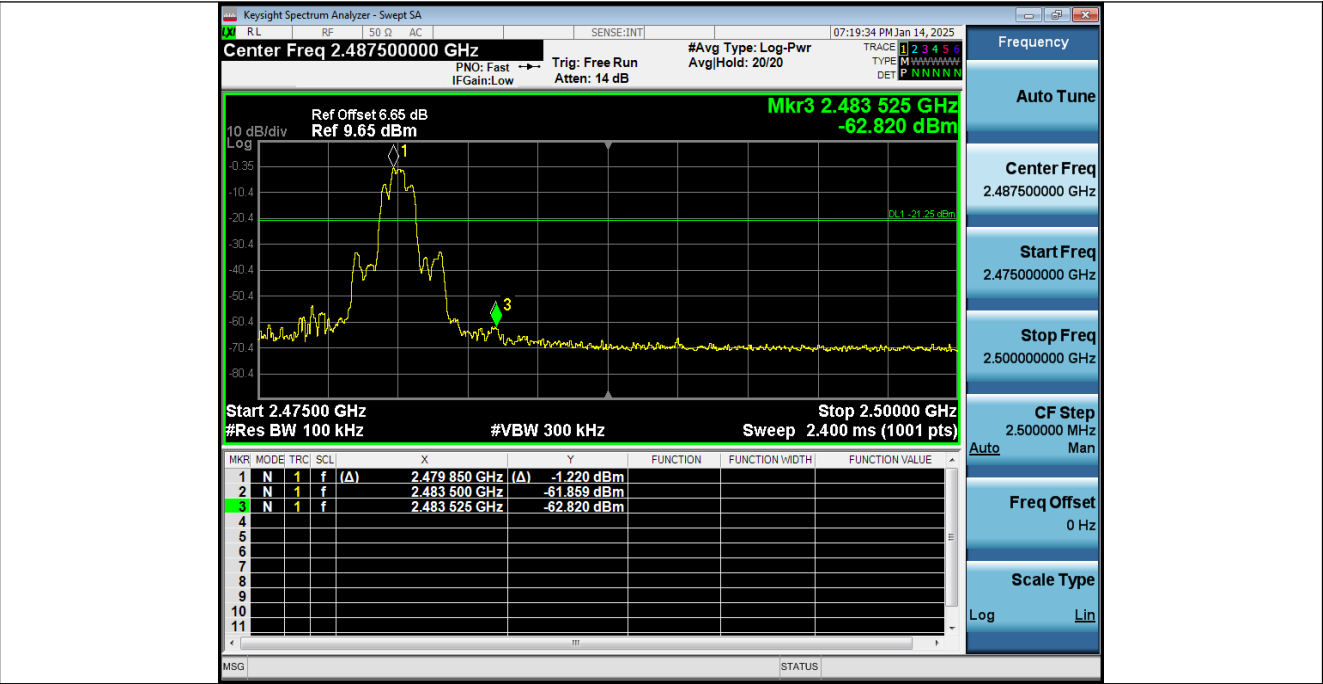
2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH1_Hopping



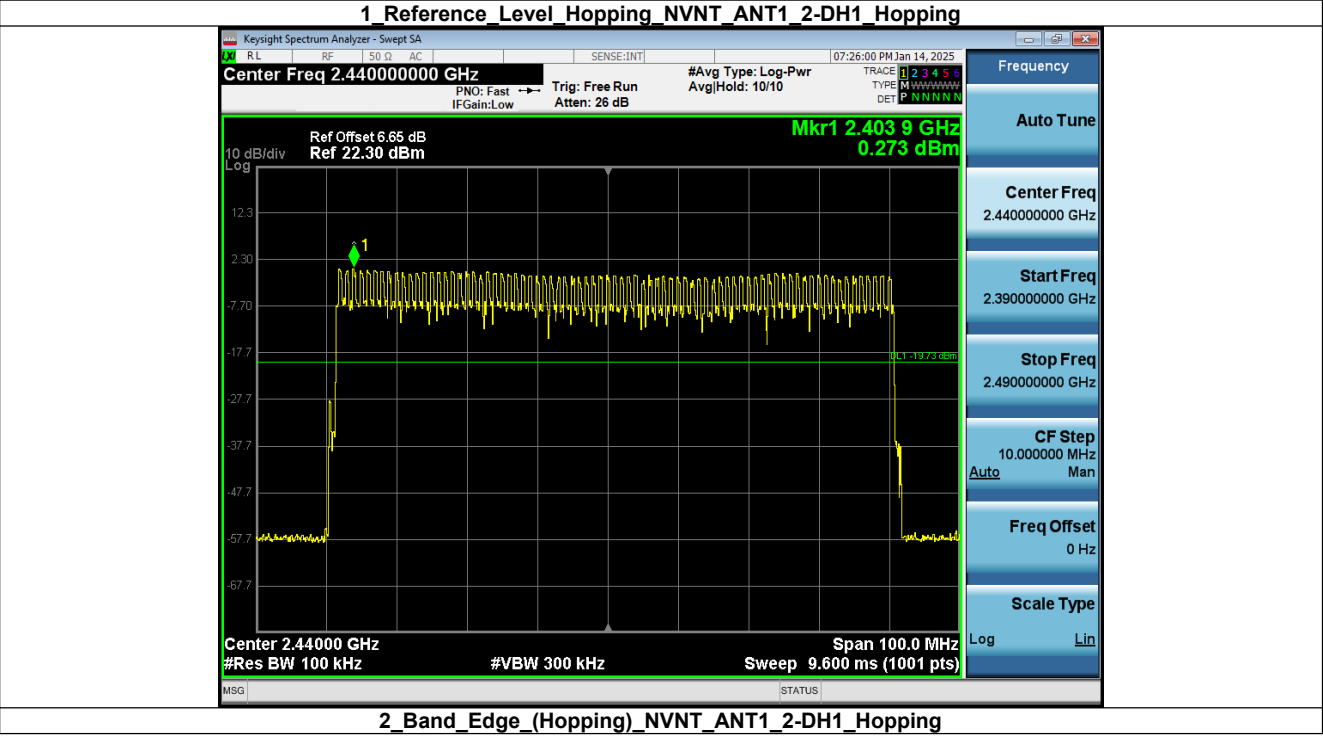
1 Reference_Level_NVNT_ANT1_2-DH1_2480_00



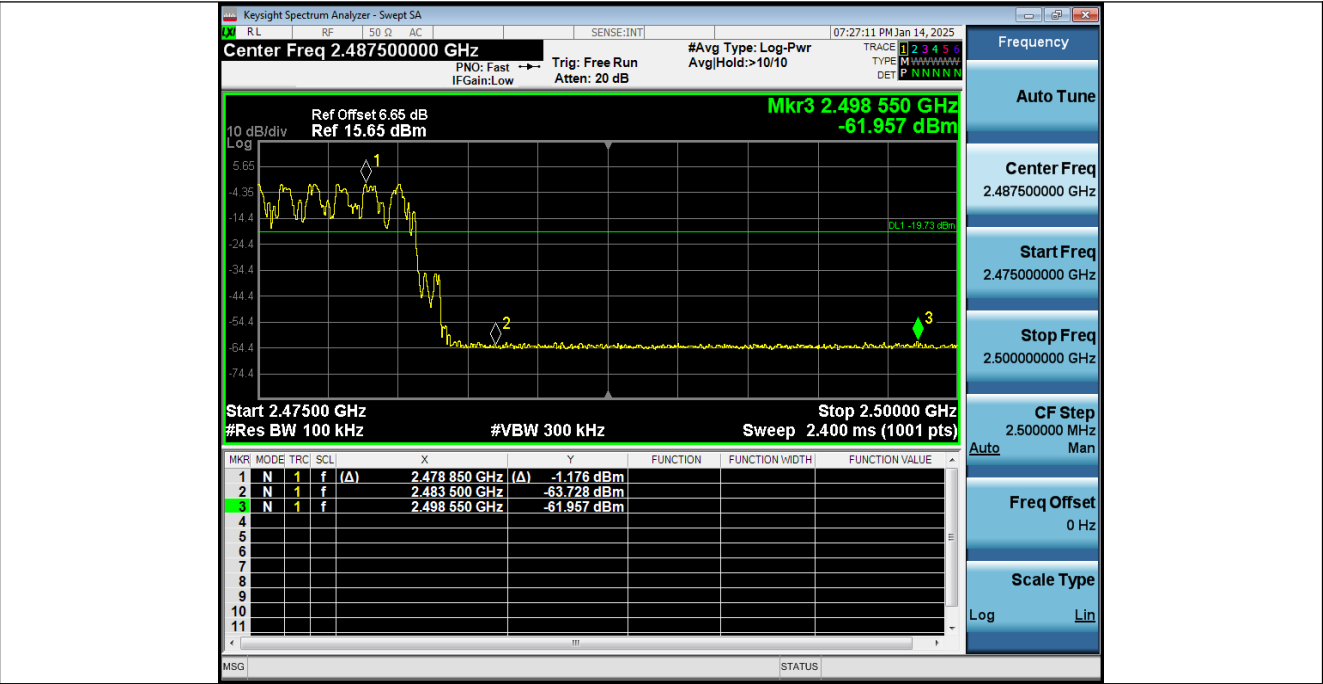
2_Bandedge_NVNT_ANT1_2-DH1_2480_00



1 Reference_Level_Hopping_NVNT_ANT1_2-DH1_Hopping



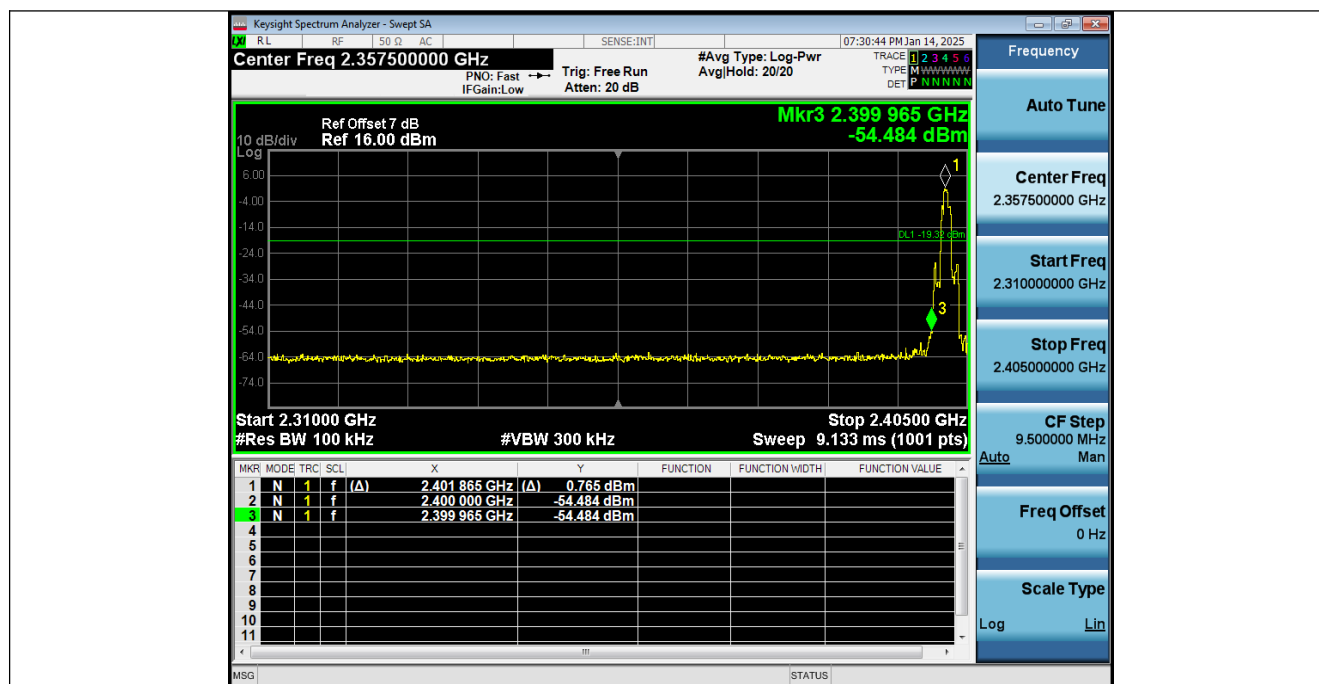
2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH1_Hopping



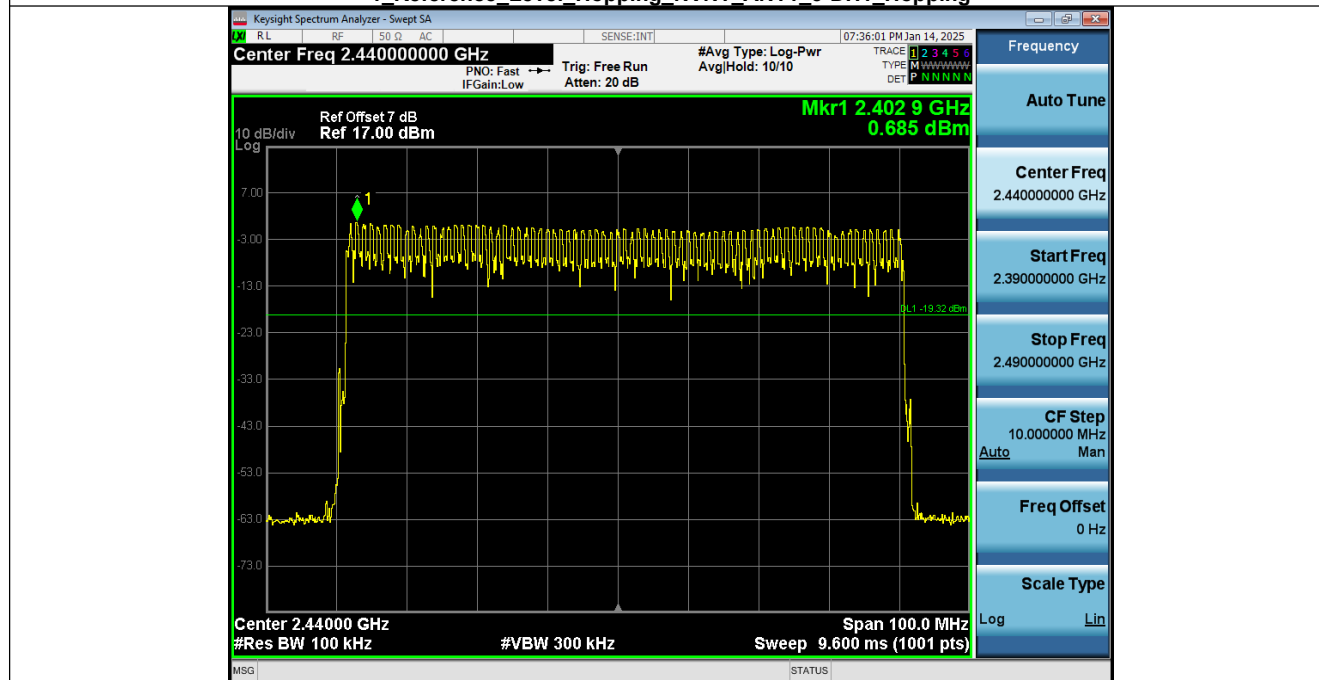
1 Reference_Level_NVNT_ANT1_3-DH1_2402_00



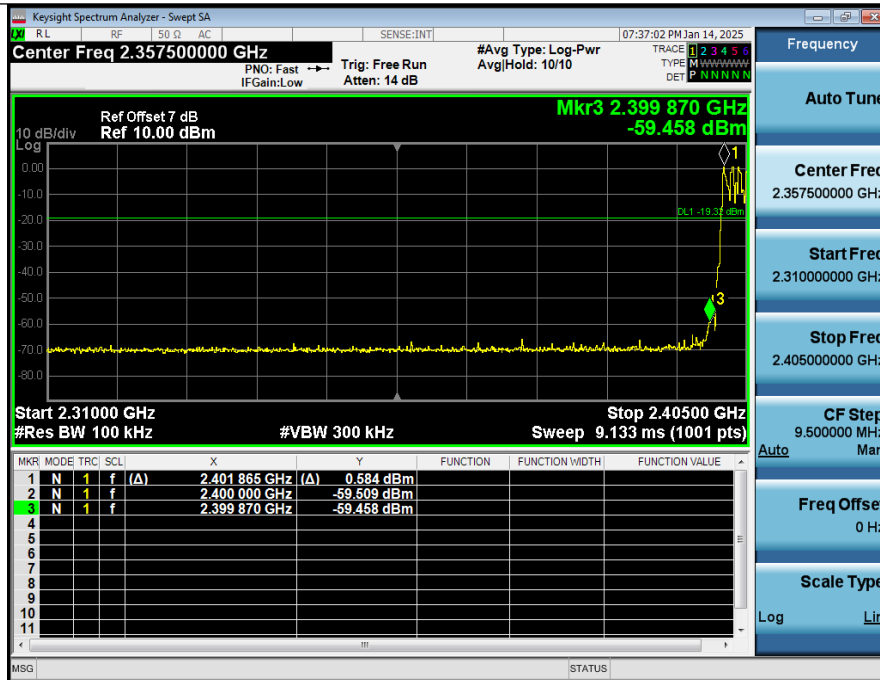
2_Bandedge_NVNT_ANT1_3-DH1_2402_00



1 Reference_Level_Hopping_NVNT_ANT1_3-DH1_Hopping



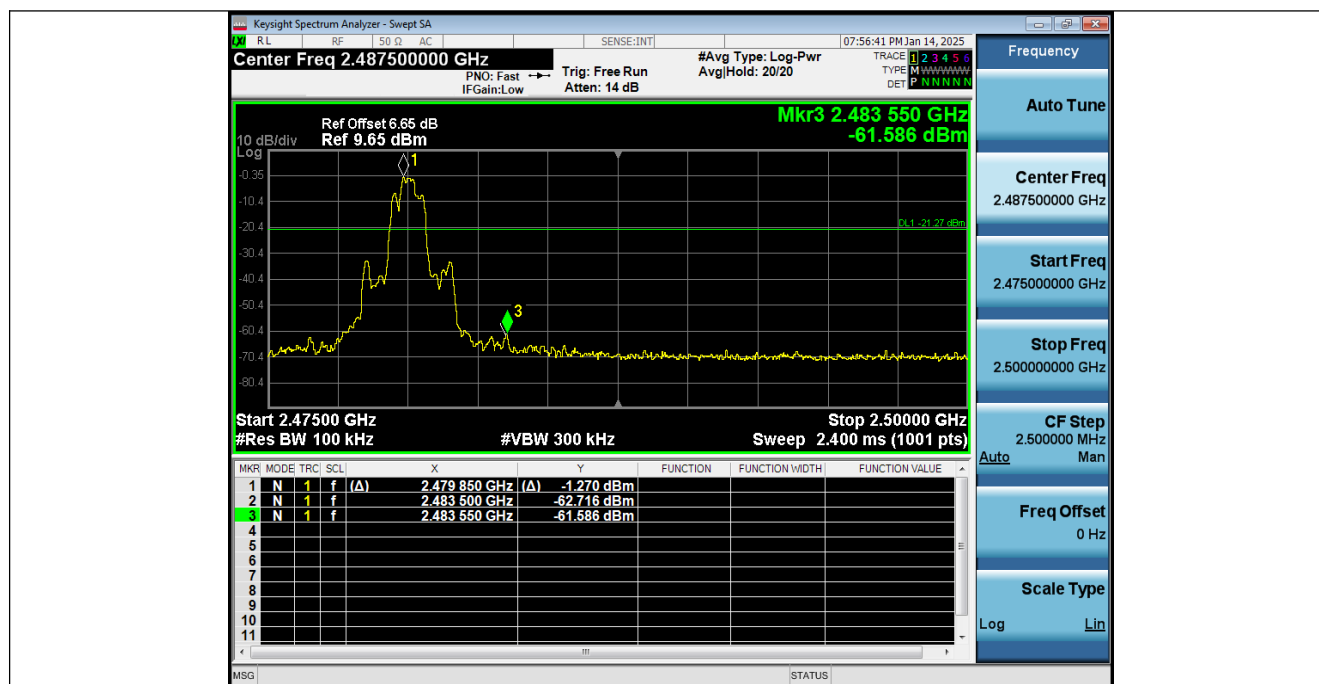
2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH1_Hopping



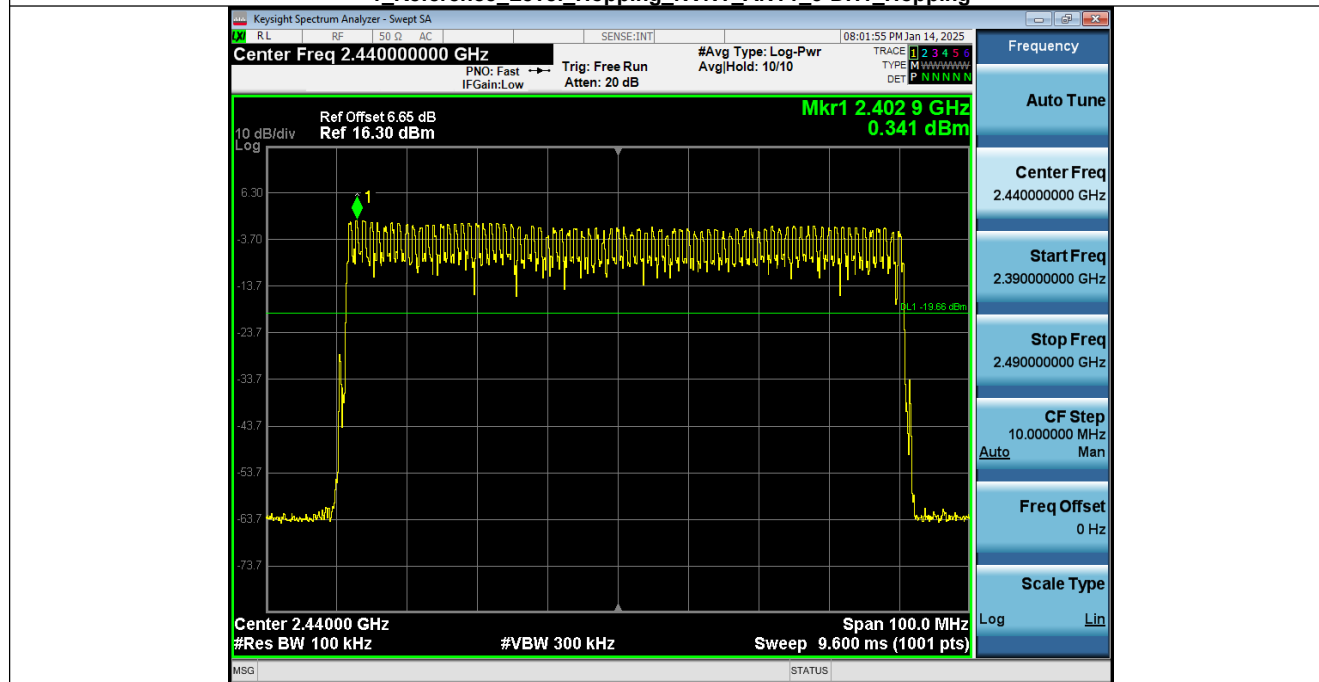
1 Reference_Level_NVNT_ANT1_3-DH1_2480_00



2_Bandedge_NVNT_ANT1_3-DH1_2480_00



1 Reference_Level_Hopping_NVNT_ANT1_3-DH1_Hopping

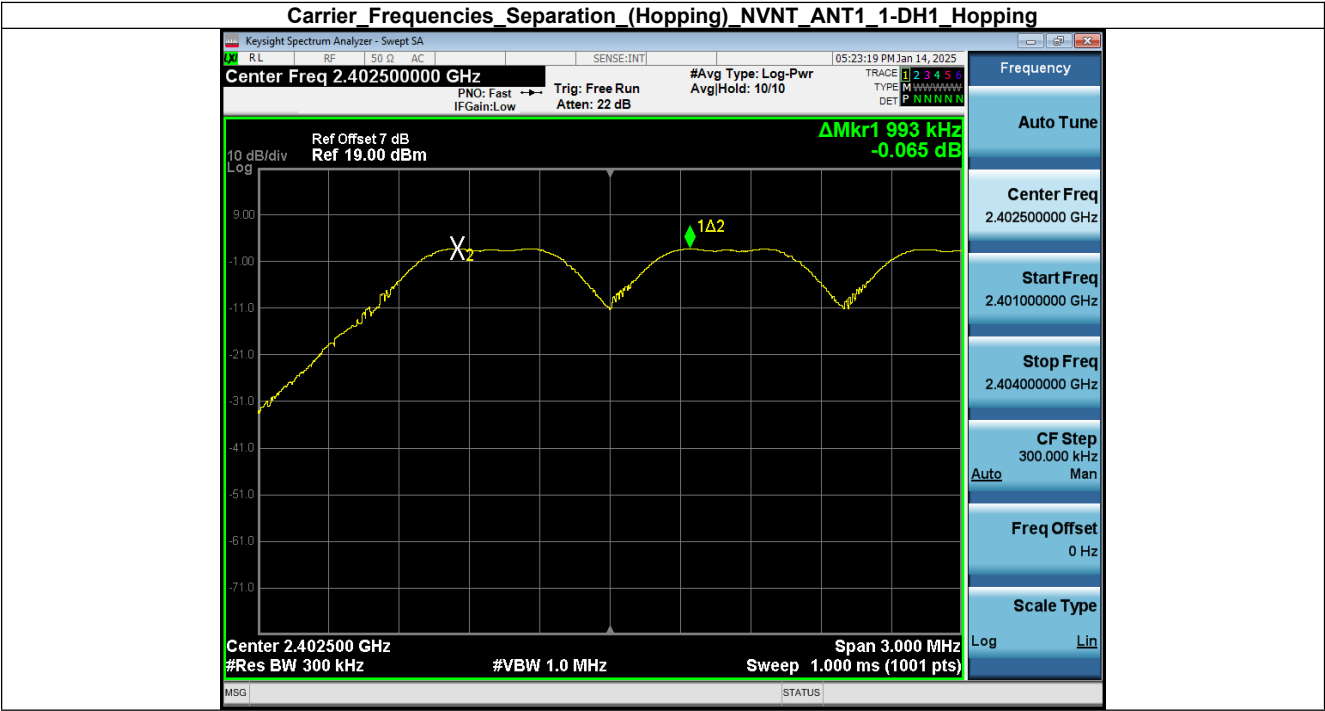


2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH1_Hopping

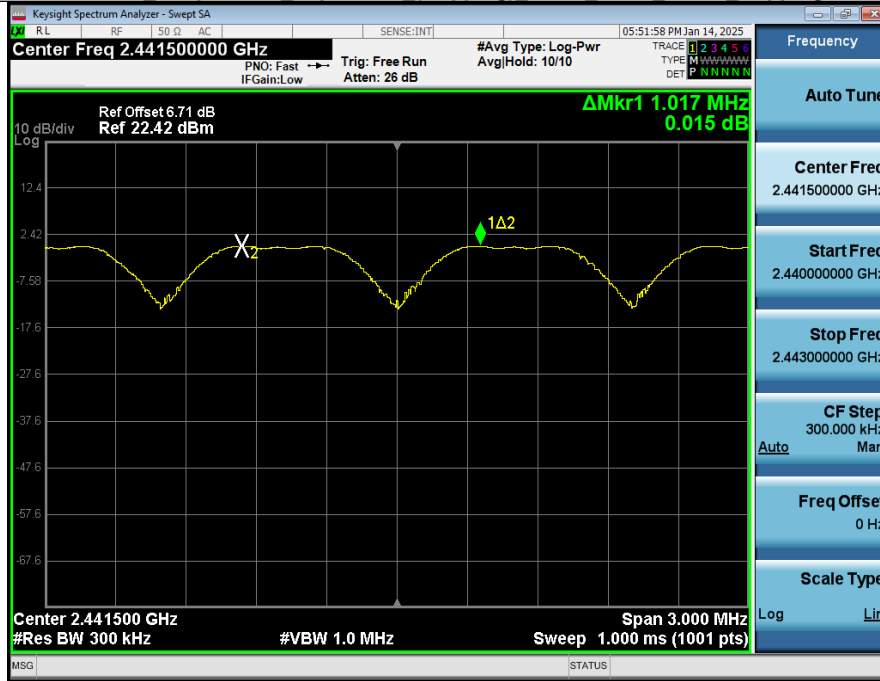


7. Carrier Frequencies Separation (Hopping)

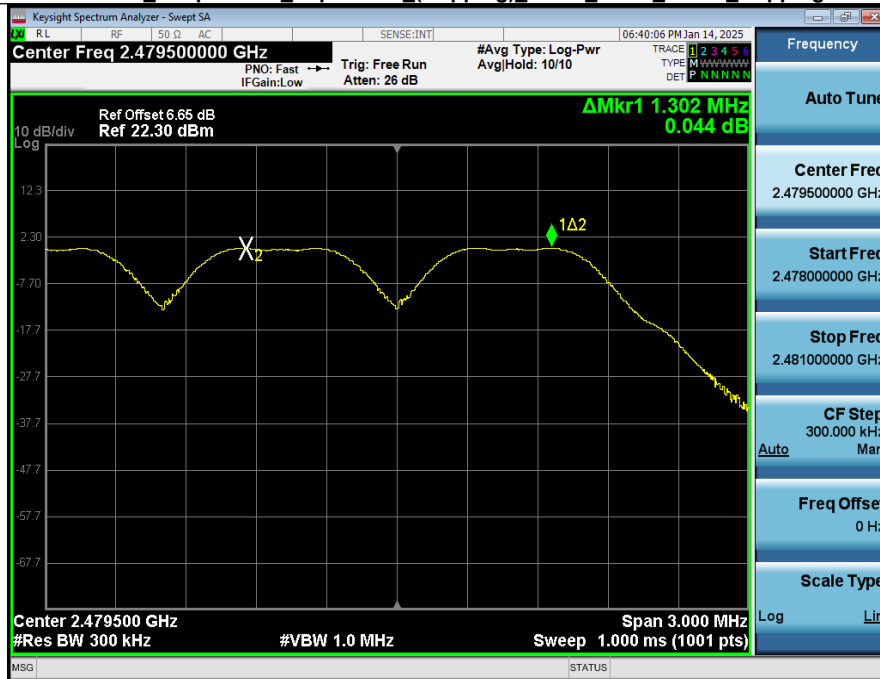
Condition	Antenna	Modulation	Frequency(MHz)	Hopping NO.0 (MHz)	Hopping NO.1 (MHz)	Carrier Frequencies Separation(MHz)	Limit(MHz)	Result
NVNT	ANT1	1-DH1	2402.00	2401.849	2402.842	0.99	0.899	Pass
NVNT	ANT1	1-DH1	2441.00	2440.837	2441.854	1.02	0.899	Pass
NVNT	ANT1	1-DH1	2480.00	2478.855	2480.157	1.30	0.898	Pass
NVNT	ANT1	2-DH1	2402.00	2401.849	2402.842	0.99	0.754	Pass
NVNT	ANT1	2-DH1	2441.00	2441.161	2442.163	1.00	0.753	Pass
NVNT	ANT1	2-DH1	2480.00	2479.161	2480.169	1.01	0.753	Pass
NVNT	ANT1	3-DH1	2402.00	2401.852	2402.854	1.00	0.771	Pass
NVNT	ANT1	3-DH1	2441.00	2440.852	2442.157	1.30	0.773	Pass
NVNT	ANT1	3-DH1	2480.00	2478.846	2480.157	1.31	0.771	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_2-DH1_Hopping



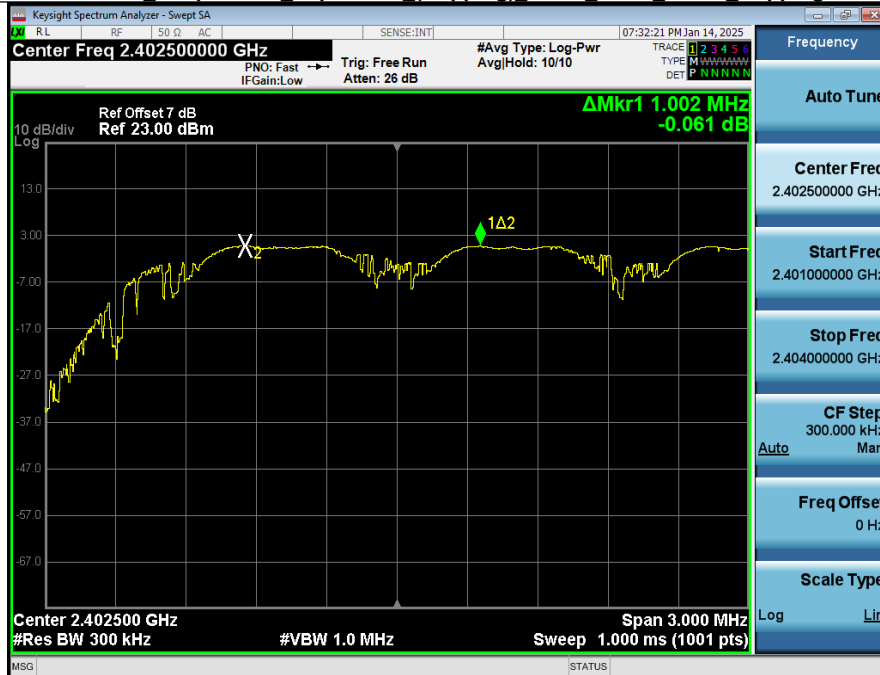
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH1_Hopping



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

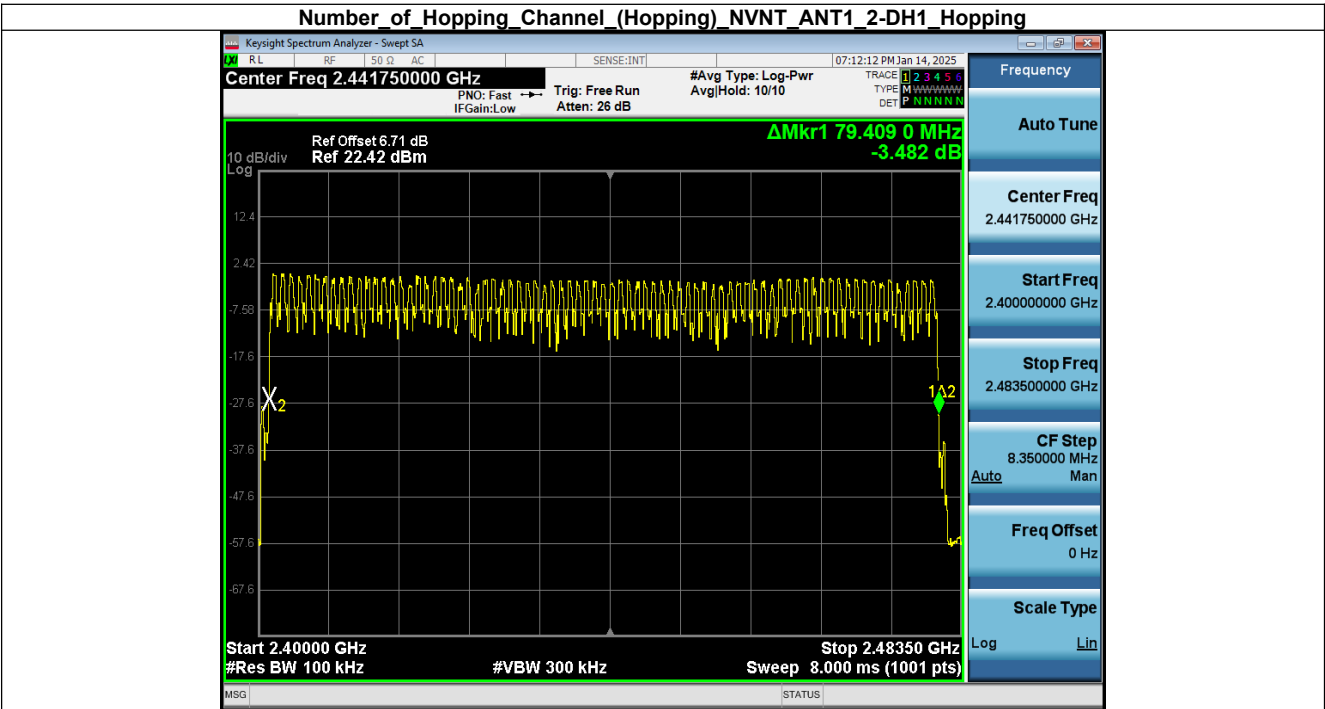
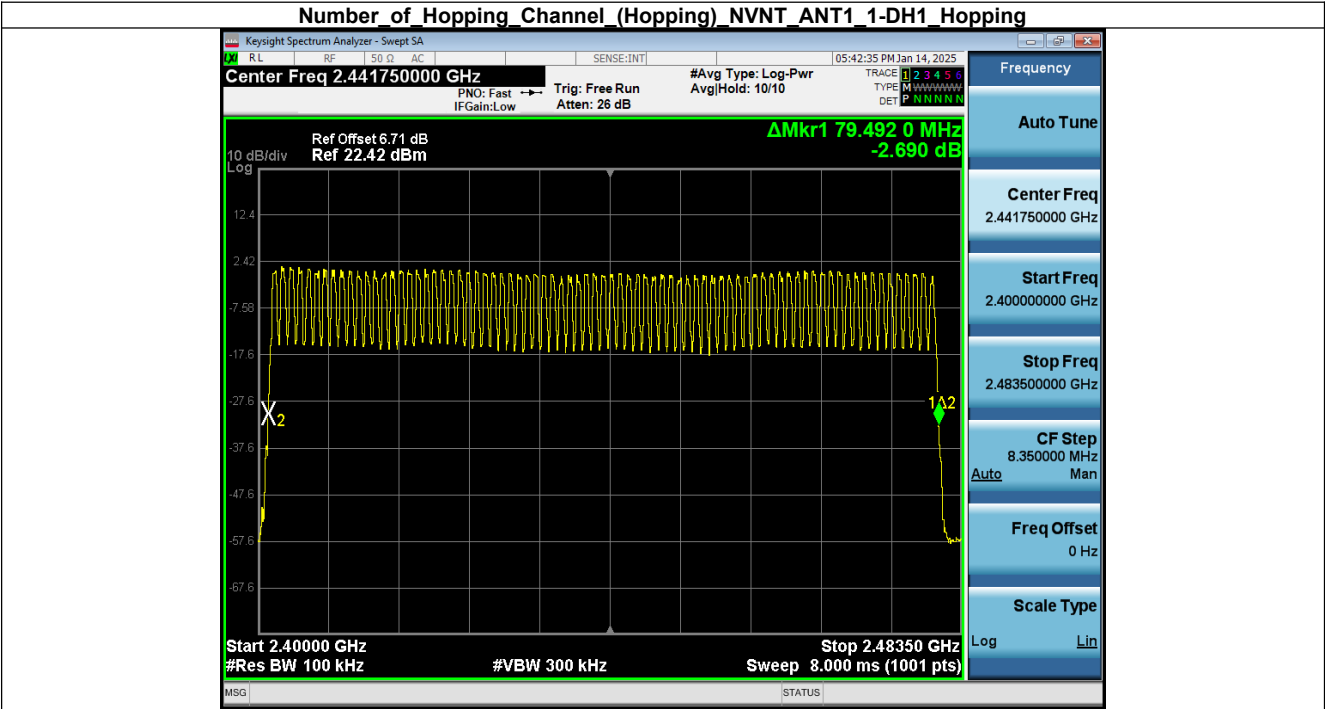


Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH1_Hopping

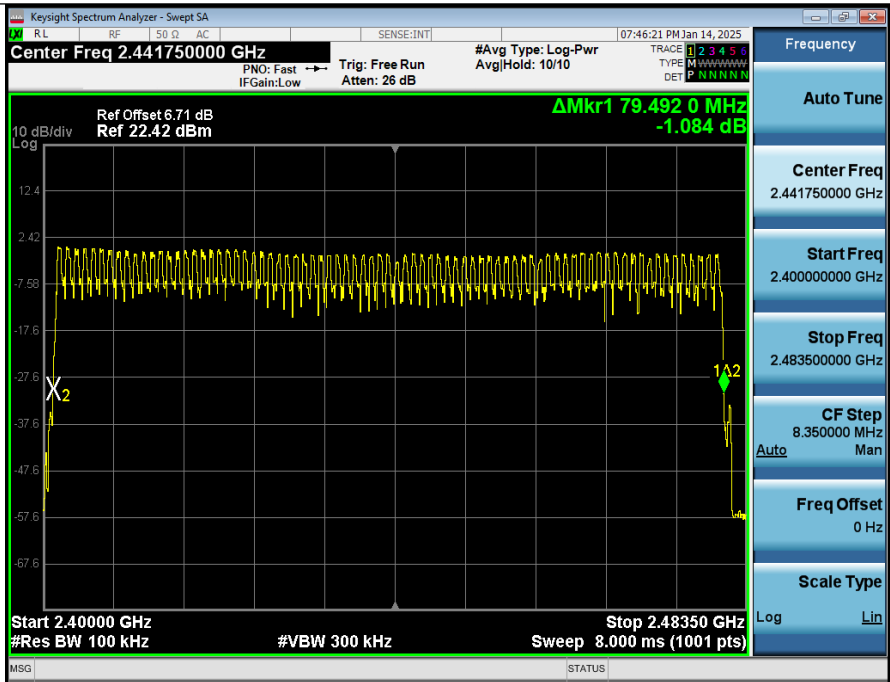


8. Number of Hopping Channel (Hopping)

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

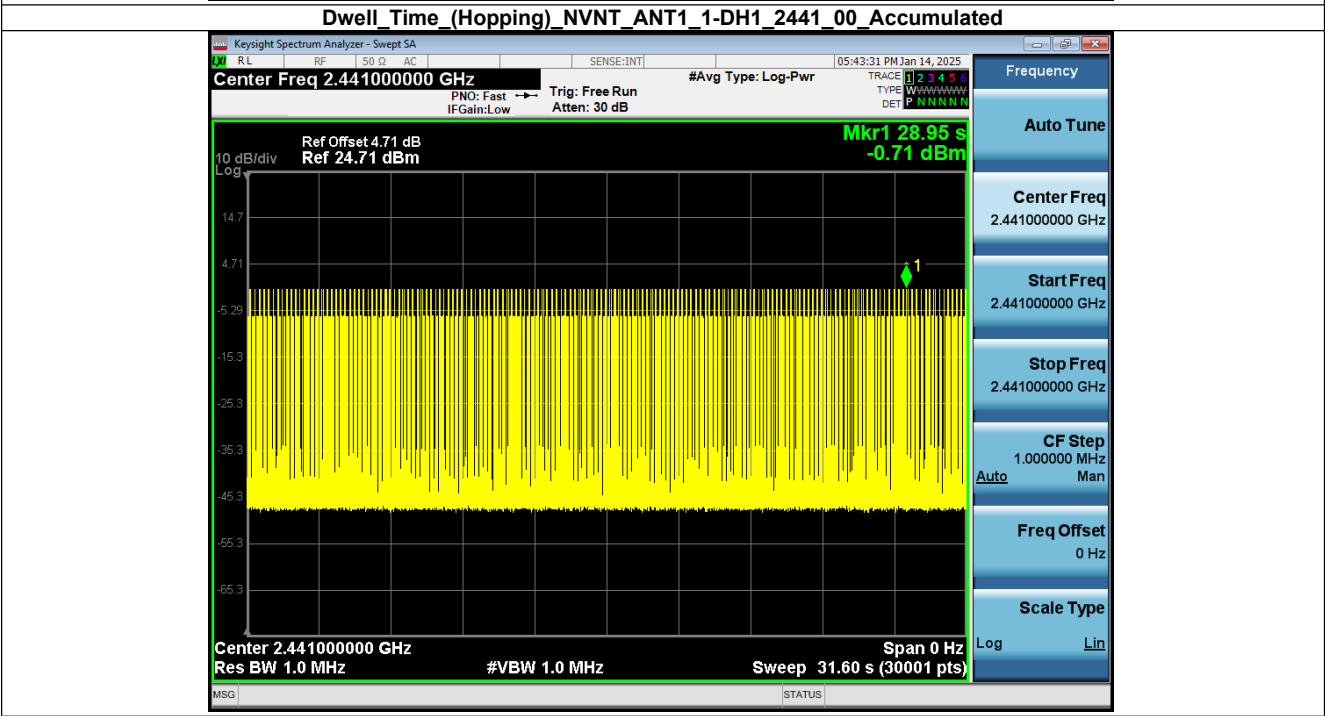
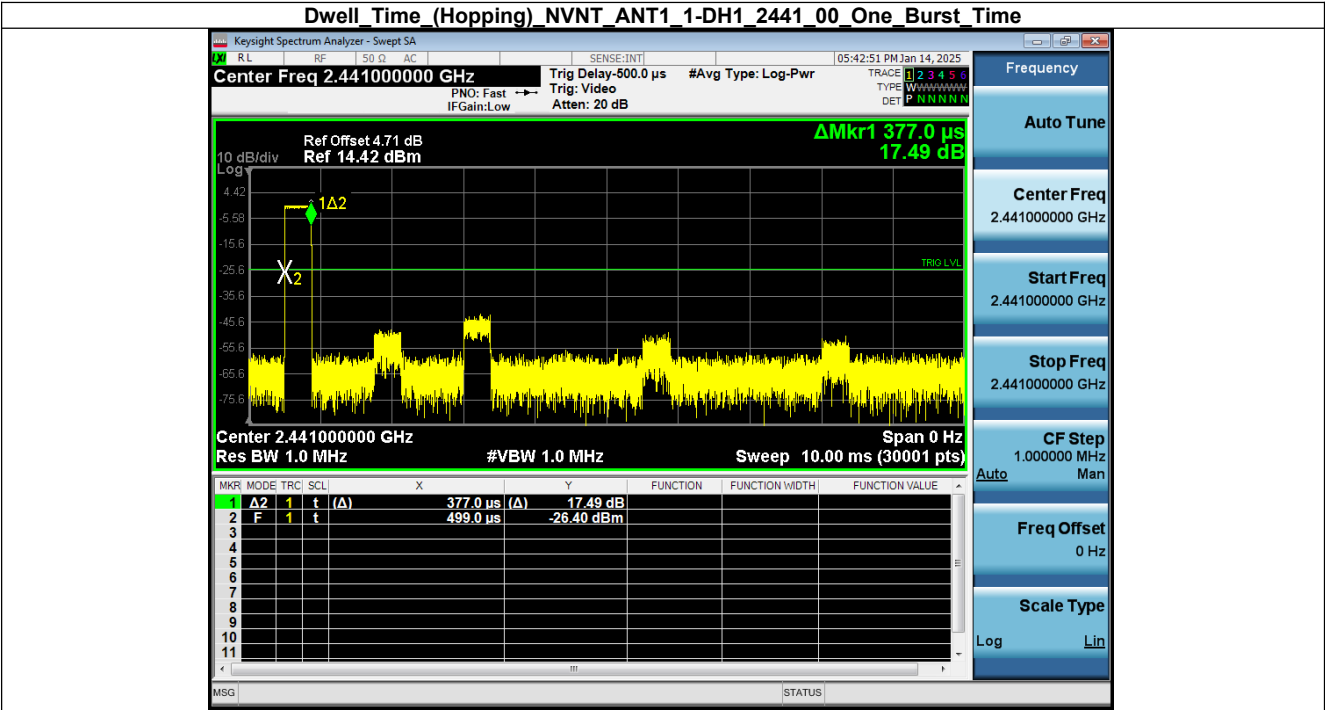


Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_3-DH1_Hopping

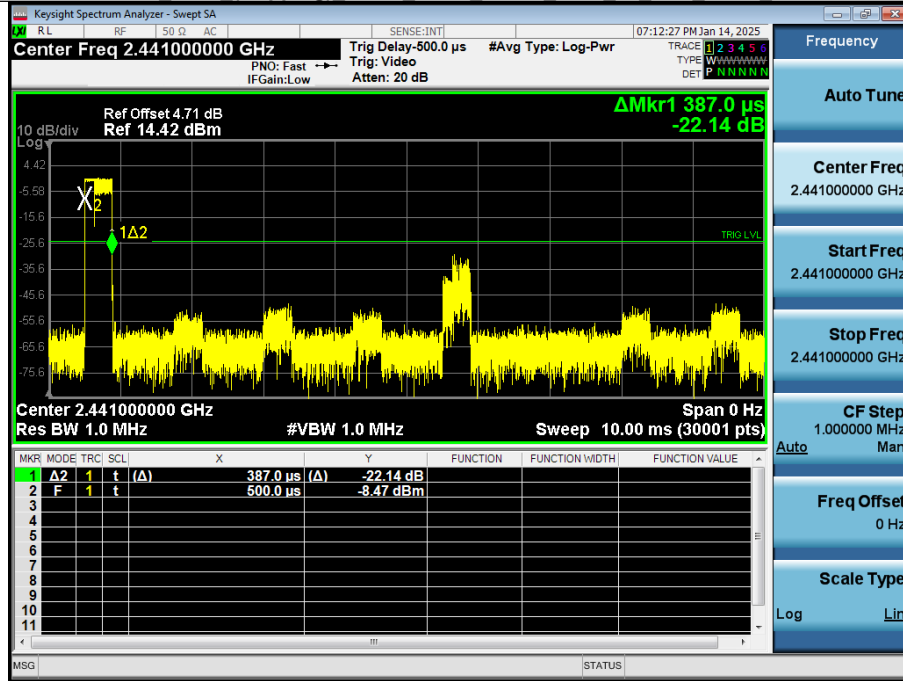


9. Dwell Time (Hopping)

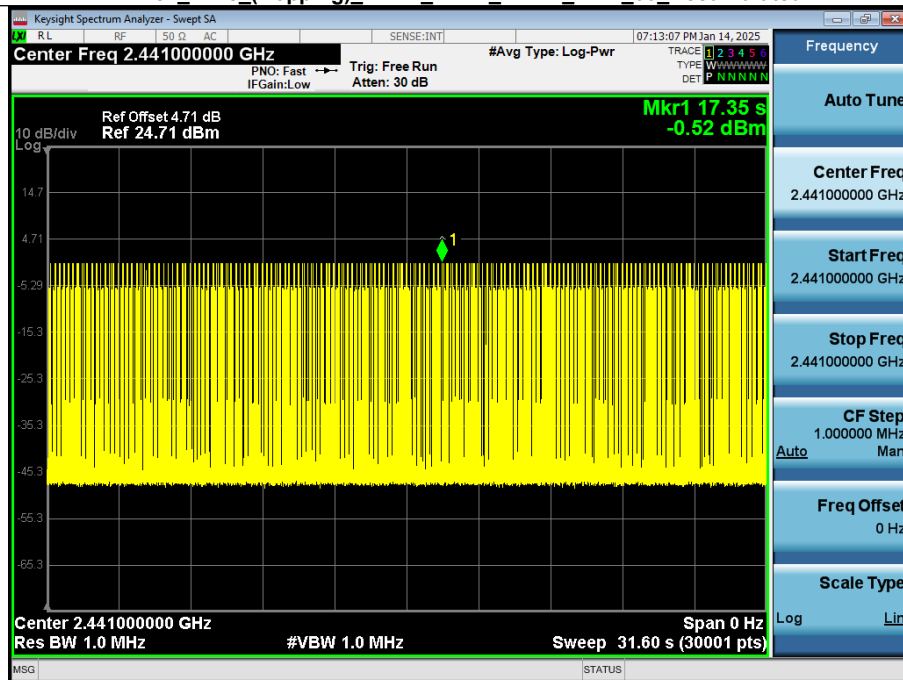
Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH1	0.377	318.00	119.886	0.40	Pass
NVNT	ANT1	2-DH1	0.387	320.00	123.840	0.40	Pass
NVNT	ANT1	3-DH1	0.388	320.00	124.160	0.40	Pass
NVNT	ANT1	1-DH3	1.633	168.00	274.344	0.40	Pass
NVNT	ANT1	1-DH5	2.881	112.00	322.672	0.40	Pass
NVNT	ANT1	2-DH3	1.639	166.00	272.074	0.40	Pass
NVNT	ANT1	2-DH5	2.887	119.00	343.553	0.40	Pass
NVNT	ANT1	3-DH3	1.638	153.00	250.614	0.40	Pass
NVNT	ANT1	3-DH5	2.890	105.00	303.450	0.40	Pass



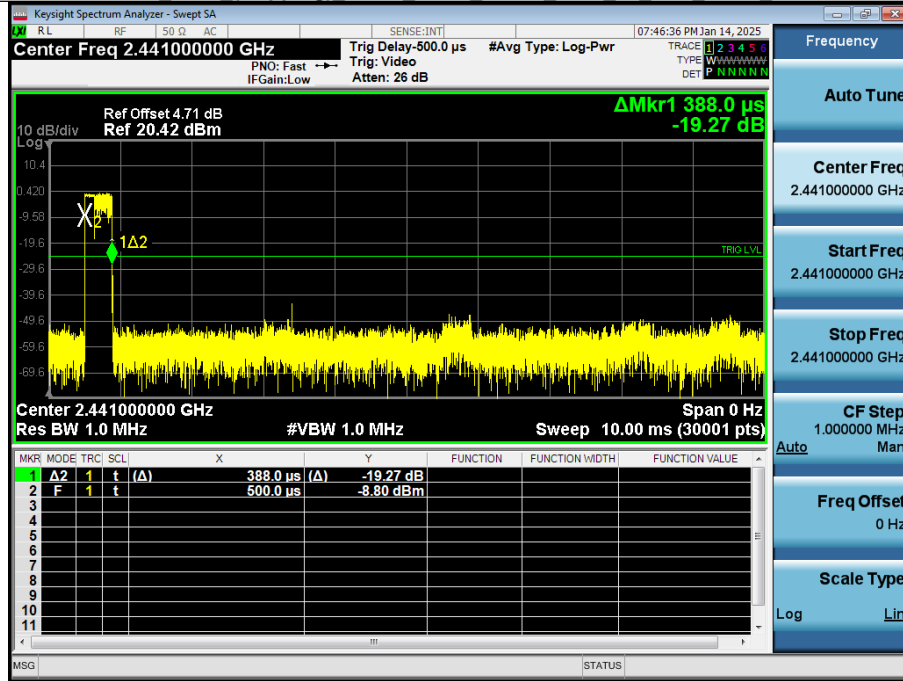
Dwell Time (Hopping) NVNT_ANT1_2-DH1_2441_00_One Burst Time



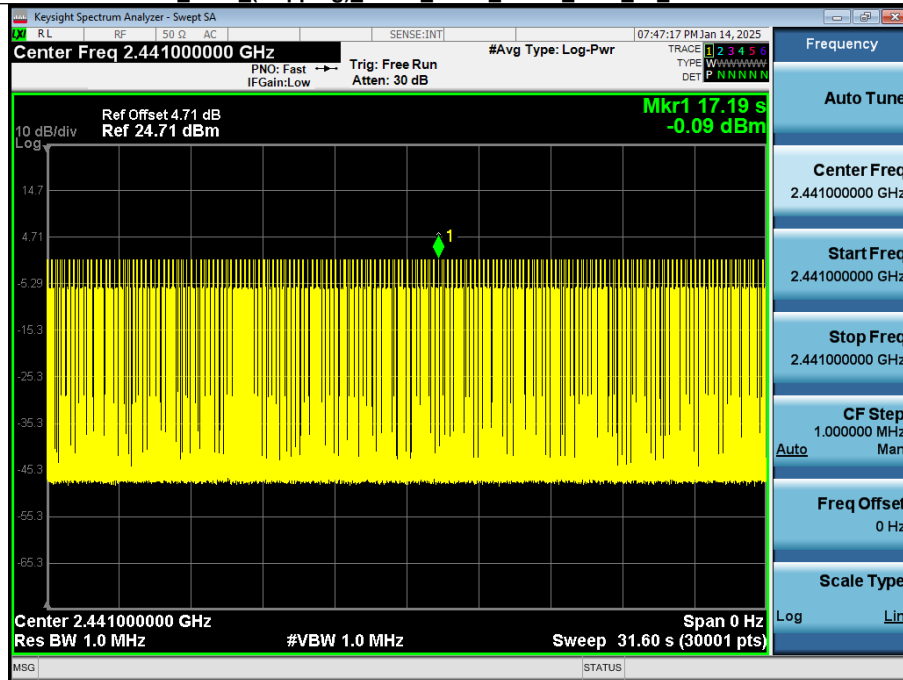
Dwell Time (Hopping) NVNT_ANT1_2-DH1_2441_00_Accumulated



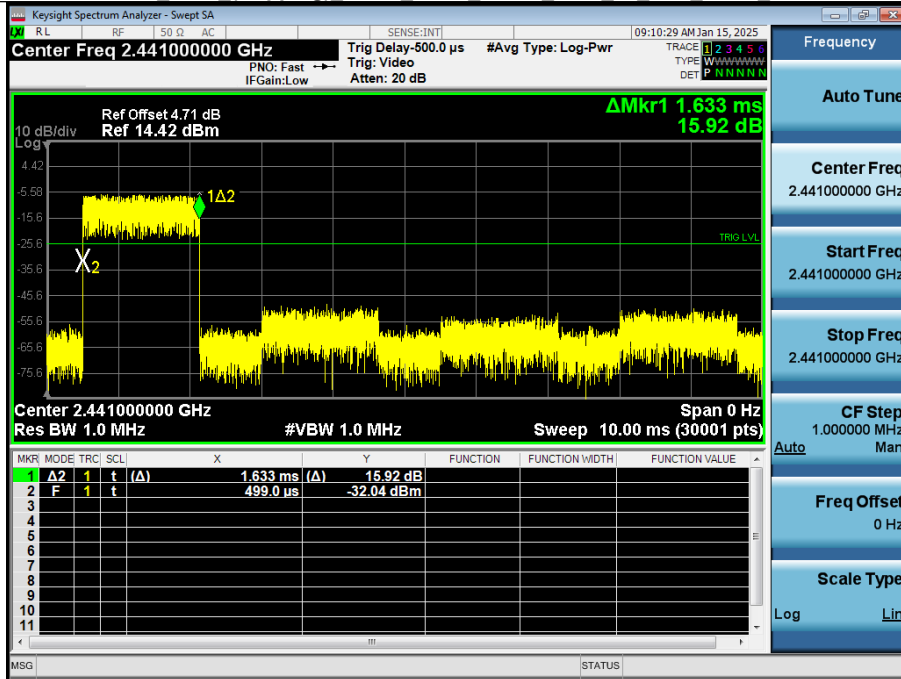
Dwell Time (Hopping) NVNT_ANT1_3-DH1_2441_00_One Burst Time



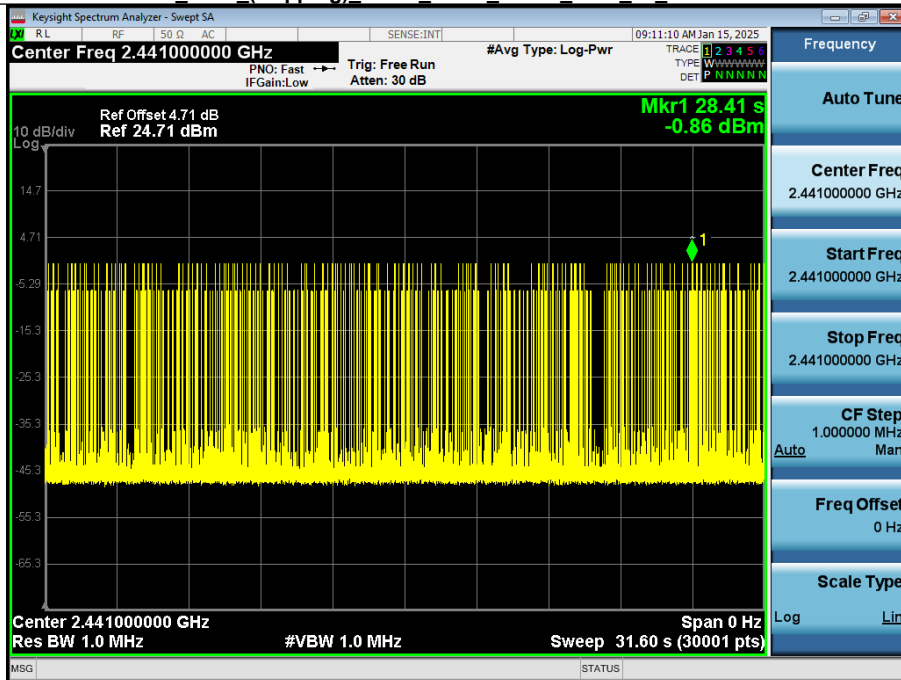
Dwell Time (Hopping) NVNT_ANT1_3-DH1_2441_00_Accumulated



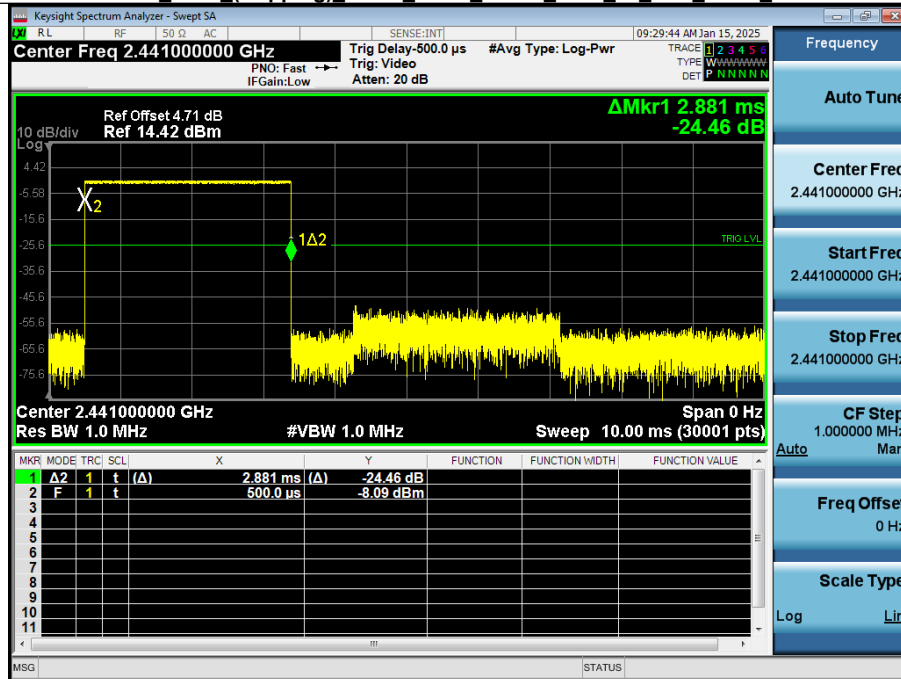
Dwell Time (Hopping) NVNT_ANT1_1-DH3_2441_00_One Burst Time



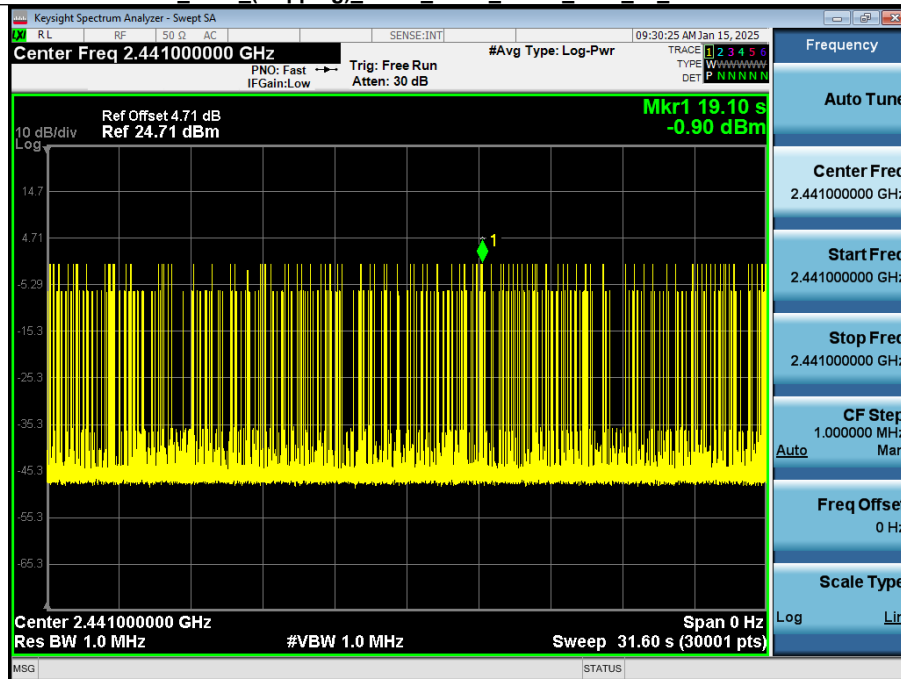
Dwell Time (Hopping) NVNT_ANT1_1-DH3_2441_00_Accumulated



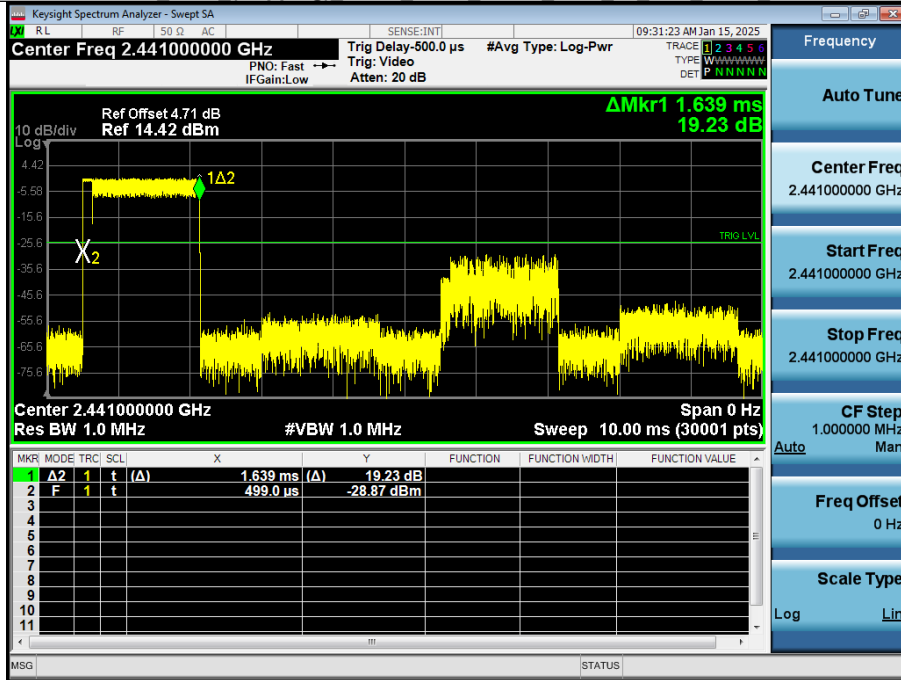
Dwell Time (Hopping) NVNT_ANT1_1-DH5_2441_00_One Burst Time



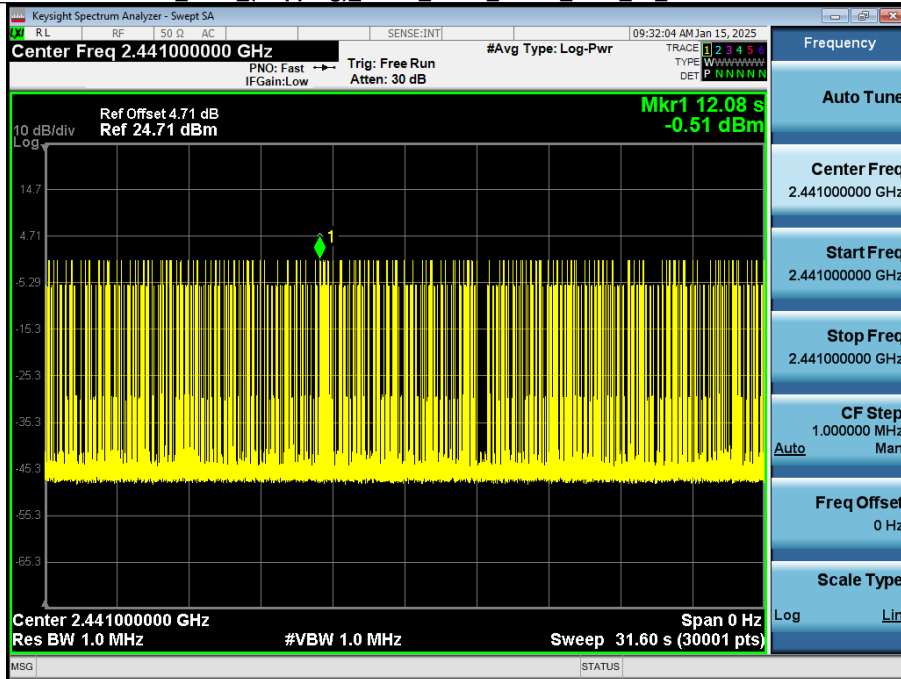
Dwell Time (Hopping) NVNT_ANT1_1-DH5_2441_00_Accumulated



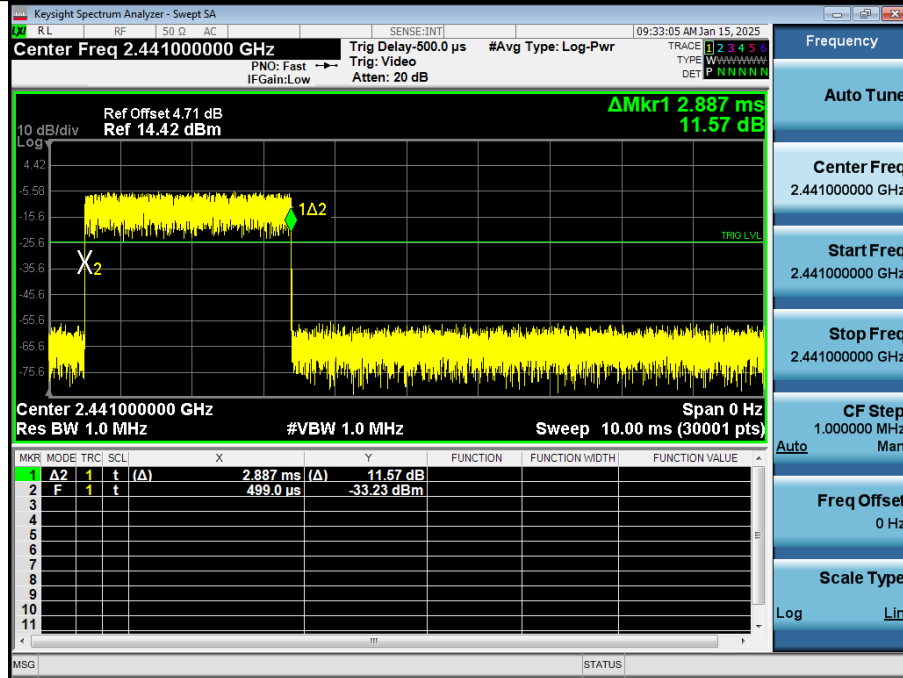
Dwell Time (Hopping) NVNT_ANT1_2-DH3_2441_00_One Burst Time



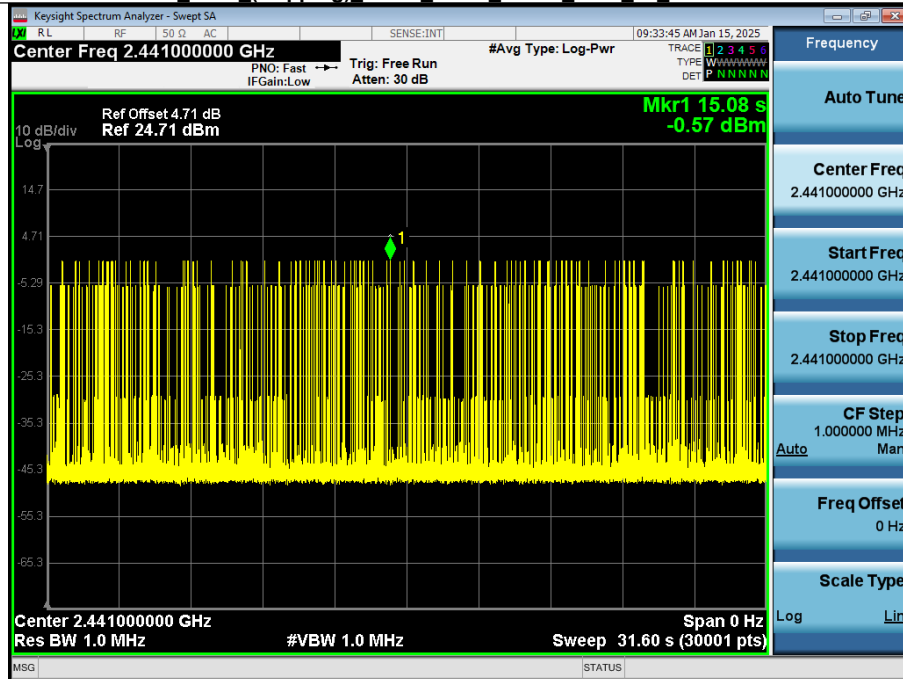
Dwell Time (Hopping) NVNT_ANT1_2-DH3_2441_00_Accumulated



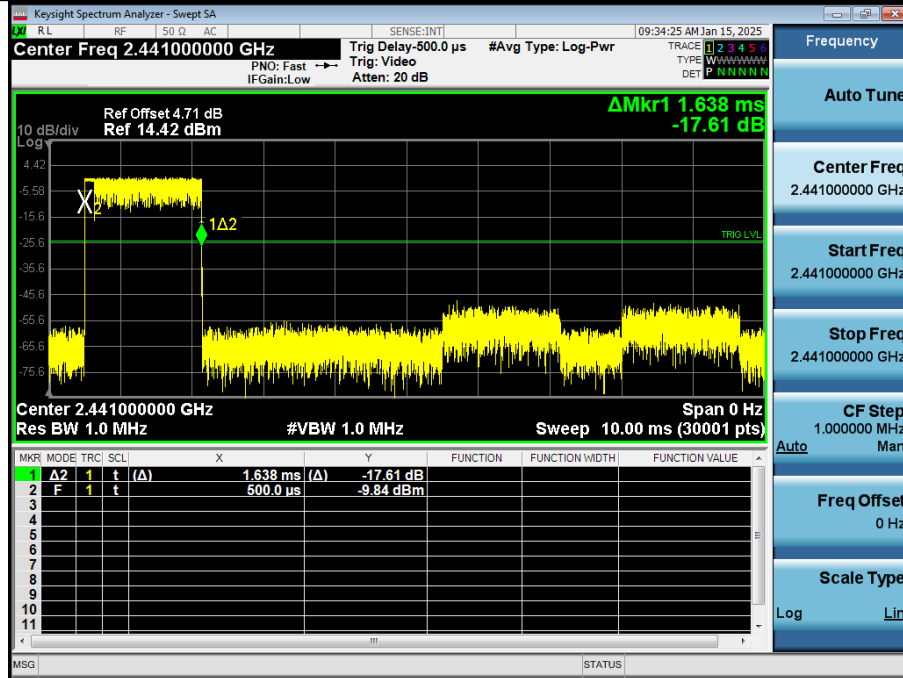
Dwell Time (Hopping) NVNT_ANT1_2-DH5_2441_00_One_Burst_Time



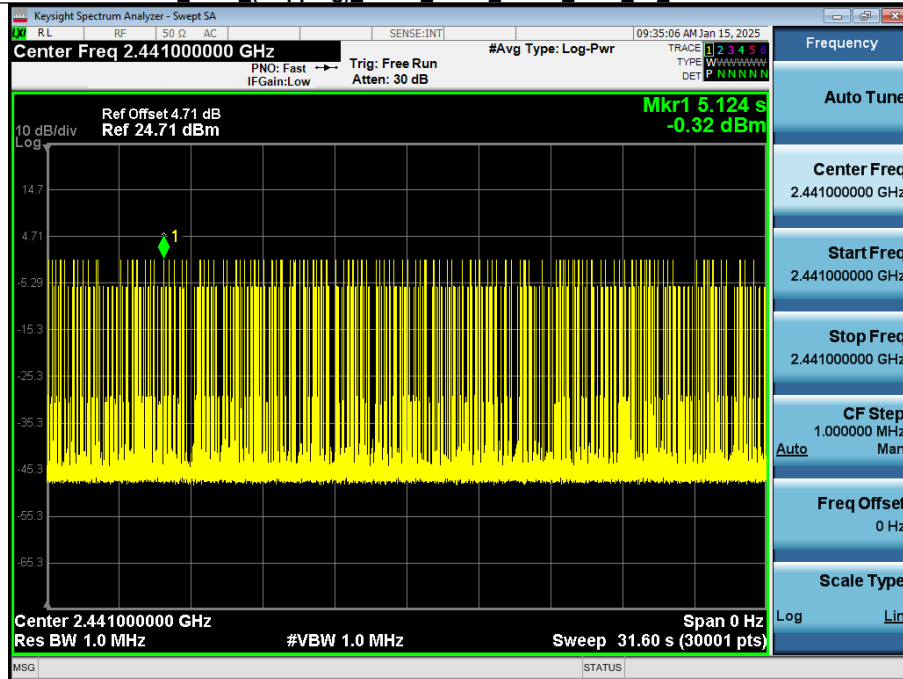
Dwell Time (Hopping) NVNT_ANT1_2-DH5_2441_00_Accumulated



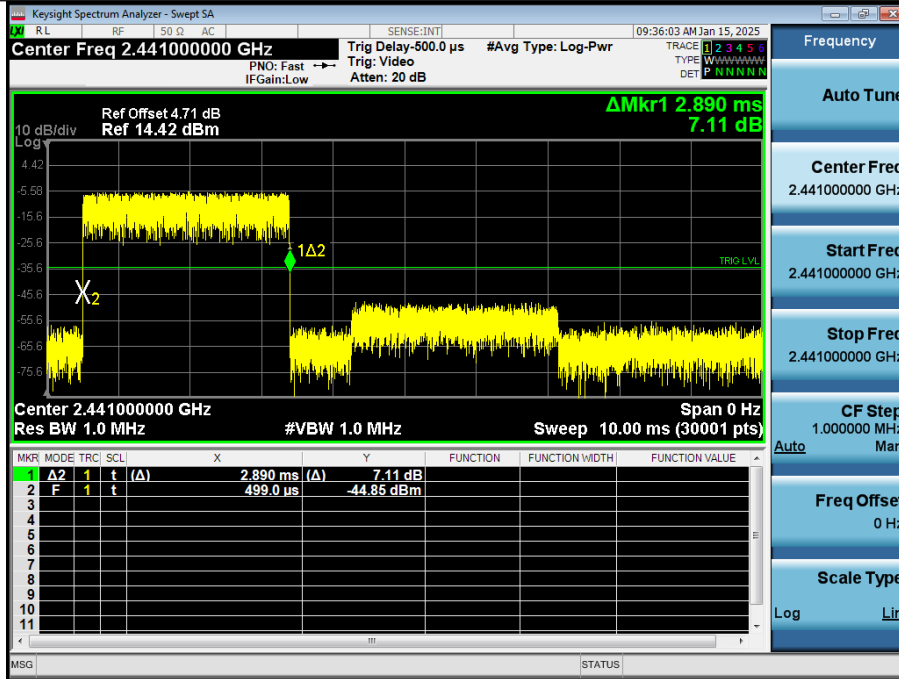
Dwell Time (Hopping) NVNT_ANT1_3-DH3_2441_00_One_Burst_Time



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

