

Appendix

Test Data

for BTEK250304010A01E02

Start date	2025/3/20	Finish date	2025/3/20
Temperature	25.5℃	Humidity	44%
RF specifications	BT	Test Engineer	Zora



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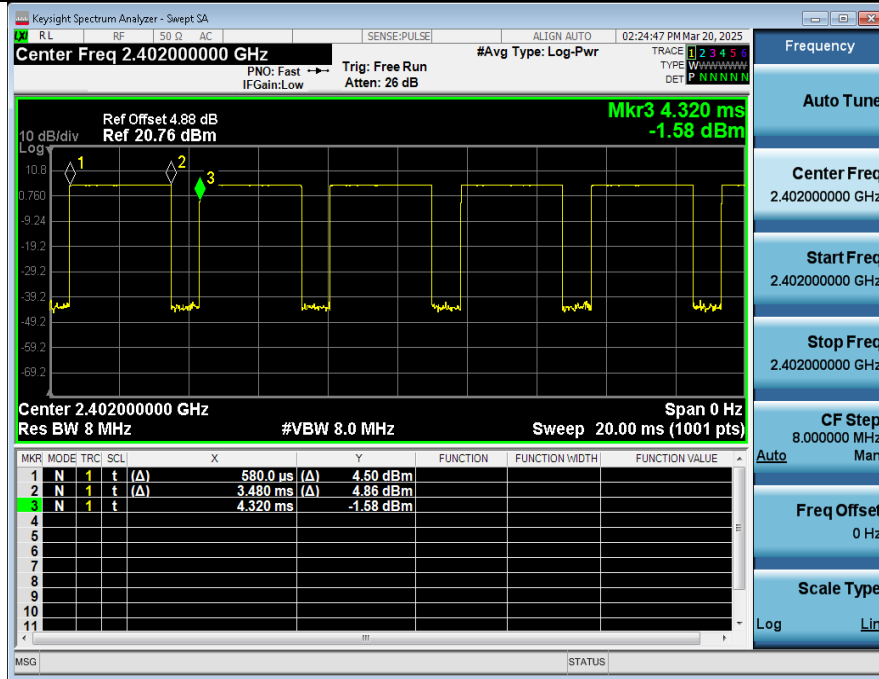
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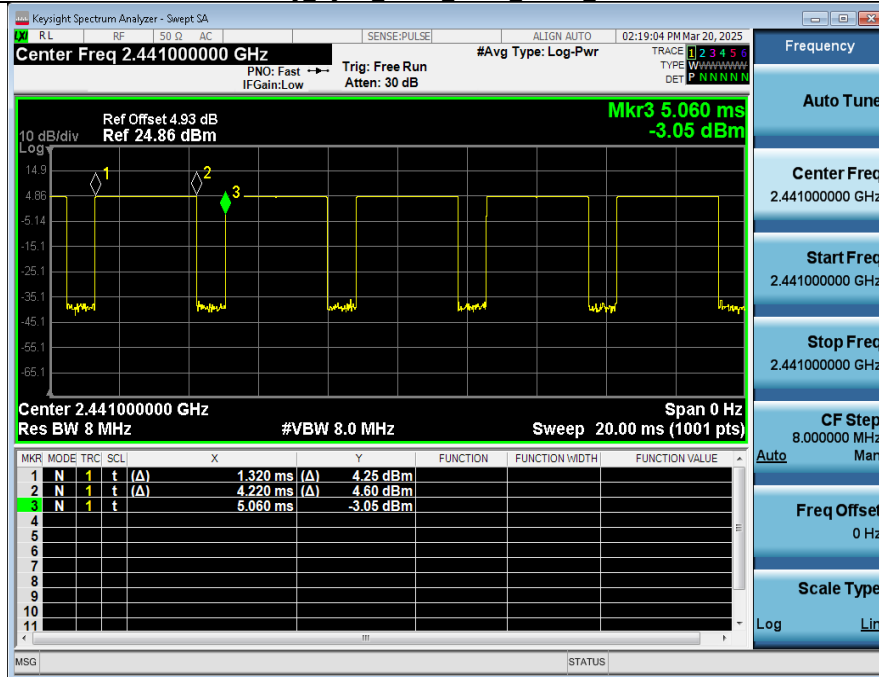
1. Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1-DH5	2402.00	77.54	1.10
NVNT	ANT1	1-DH5	2441.00	78.07	1.07
NVNT	ANT1	1-DH5	2480.00	78.19	1.07
NVNT	ANT1	2-DH5	2402.00	78.07	1.07
NVNT	ANT1	2-DH5	2441.00	78.19	1.07
NVNT	ANT1	2-DH5	2480.00	78.19	1.07
NVNT	ANT1	3-DH5	2402.00	78.19	1.07
NVNT	ANT1	3-DH5	2441.00	78.07	1.07
NVNT	ANT1	3-DH5	2480.00	78.61	1.05

Duty_Cycle_NVNT_ANT1_1-DH5_2402

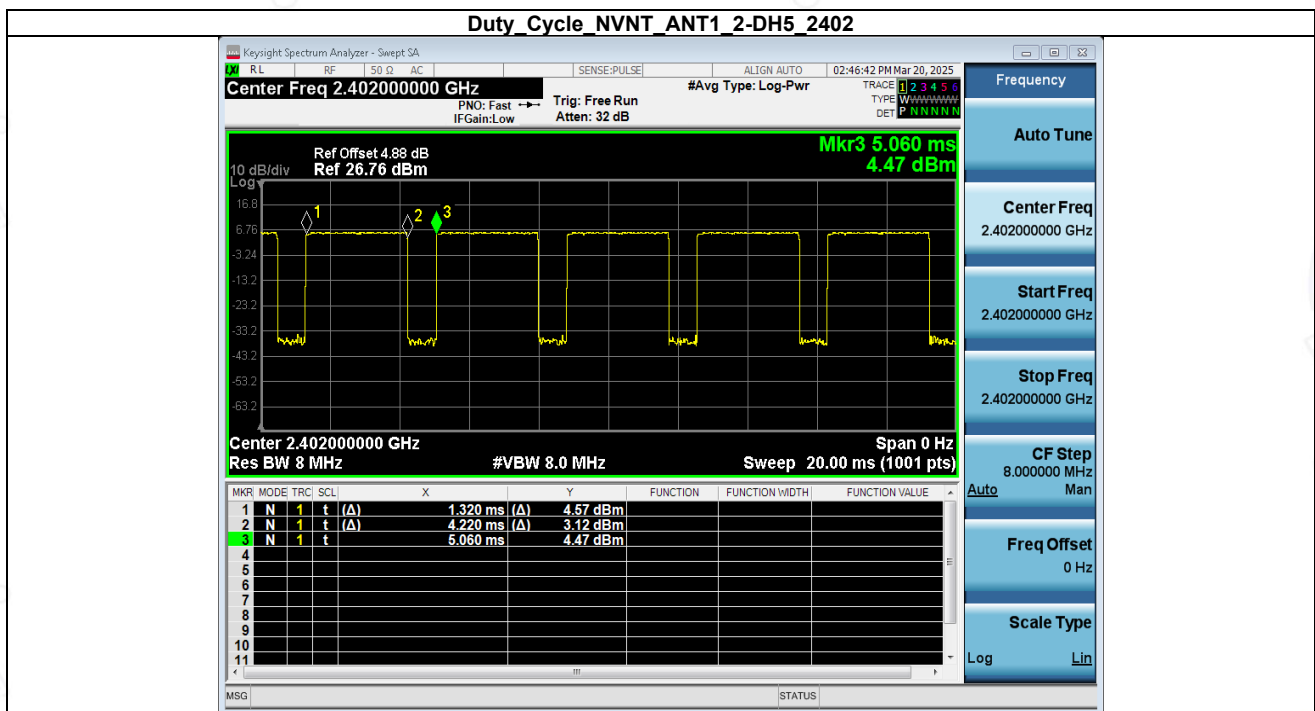
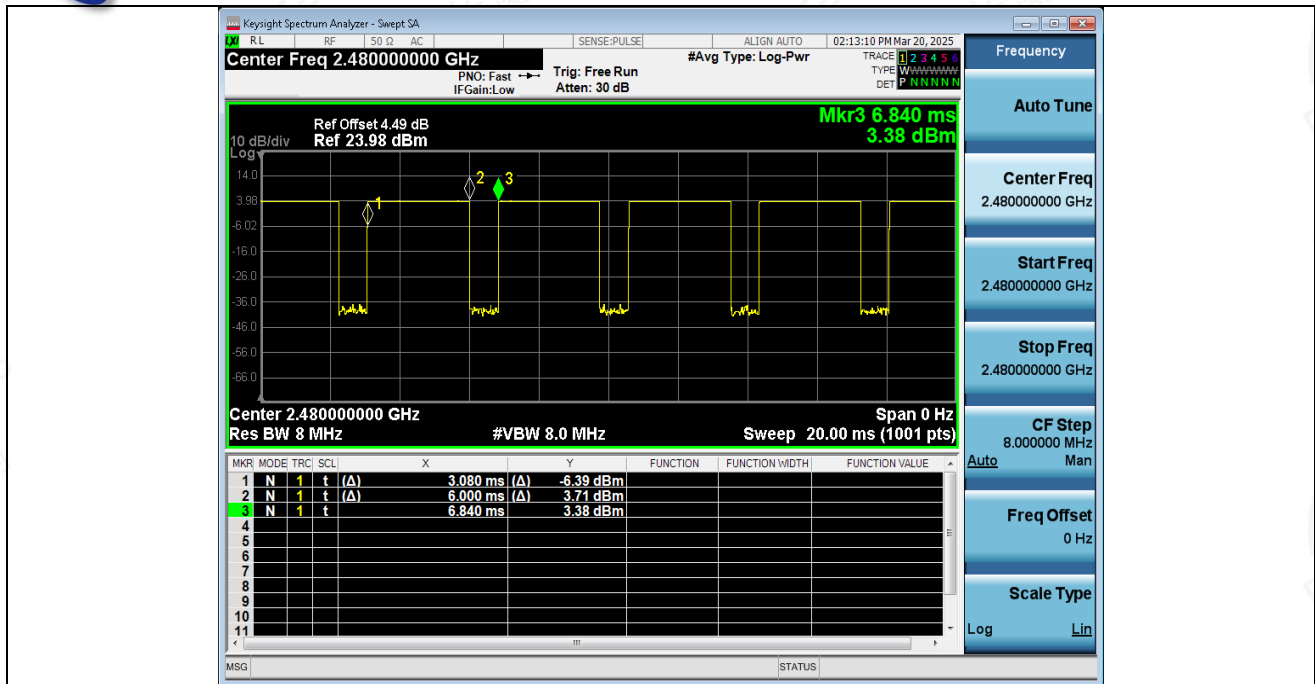


Duty_Cycle_NVNT_ANT1_1-DH5_2441



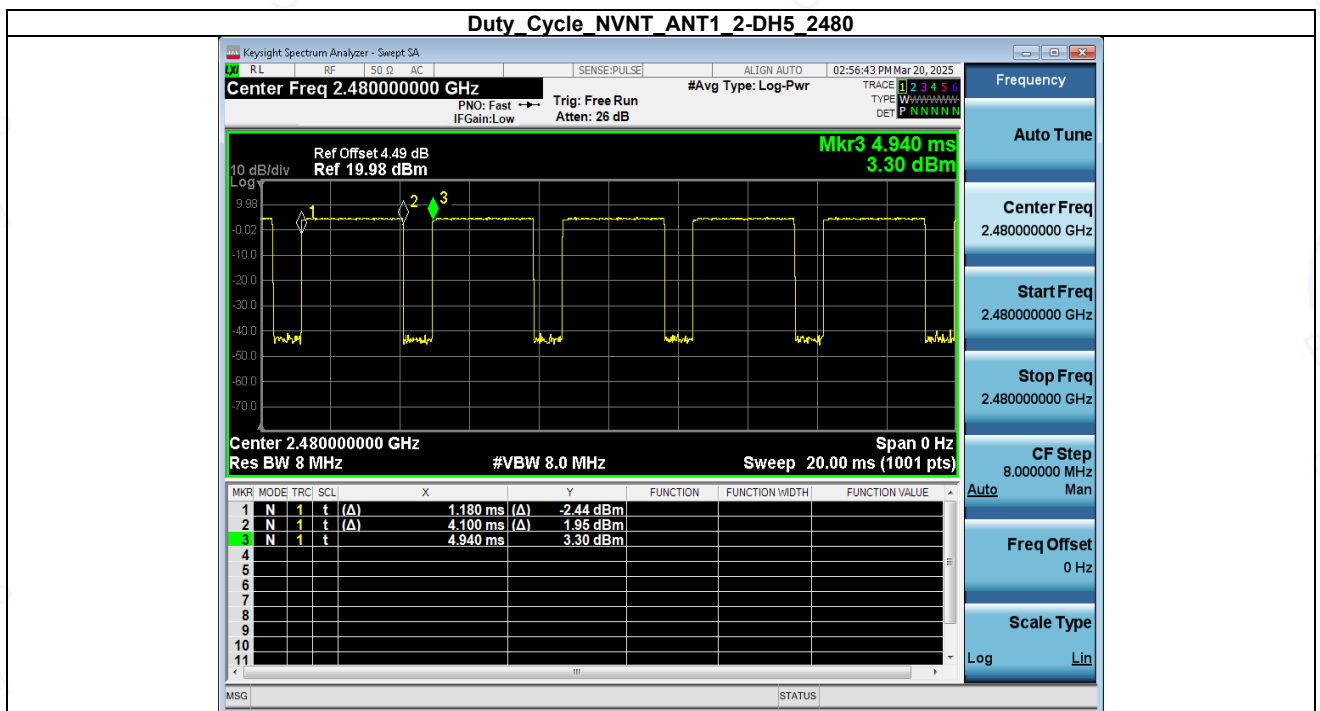
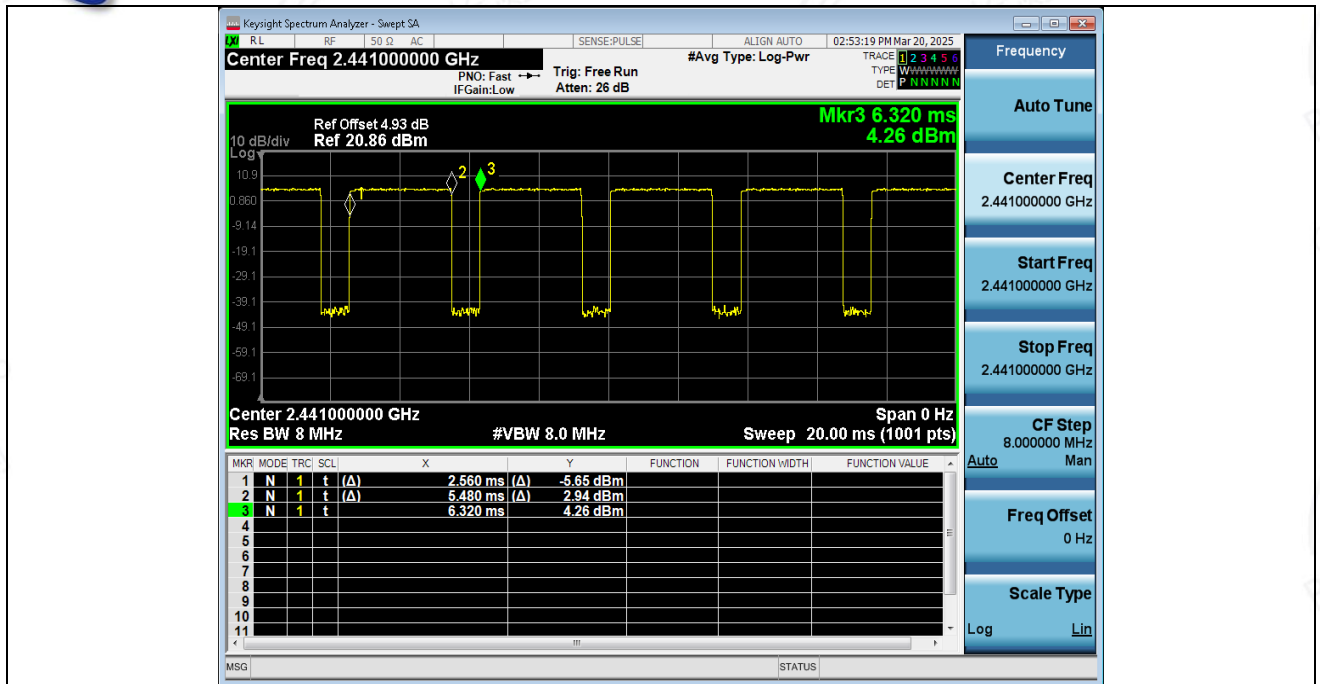
Duty_Cycle_NVNT_ANT1_1-DH5_2480

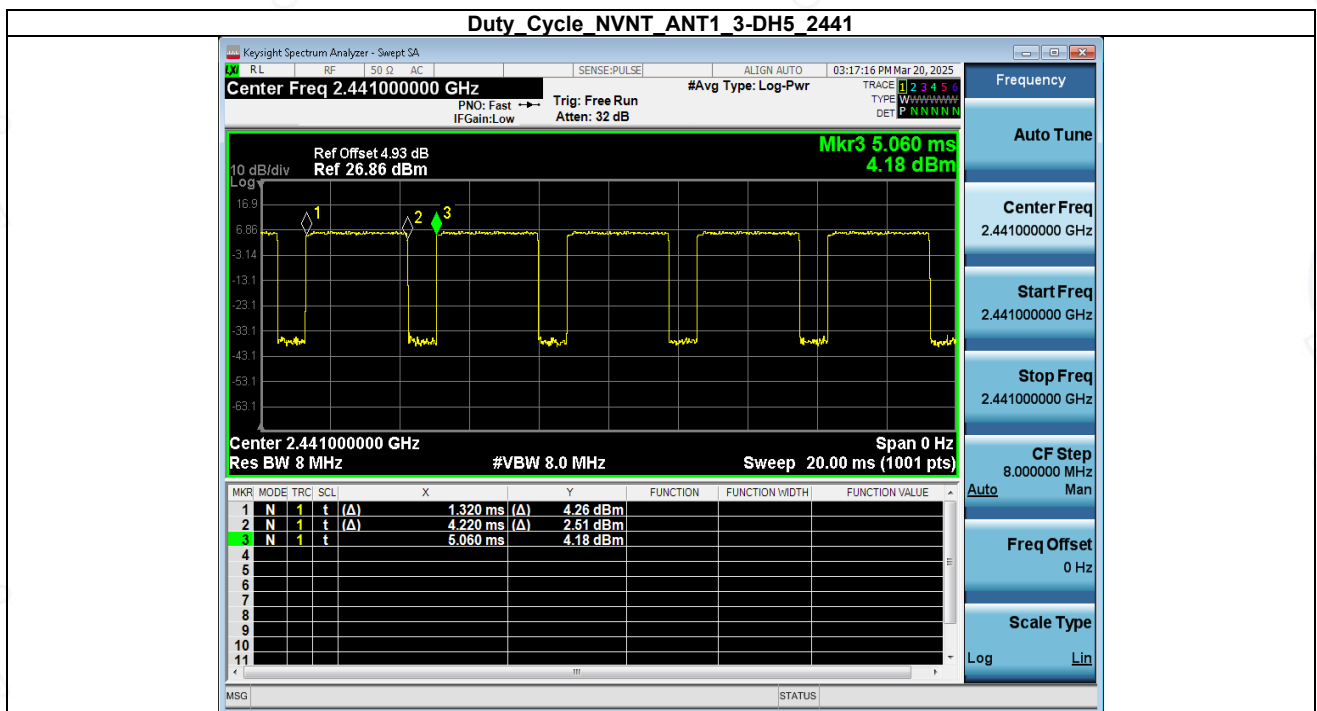
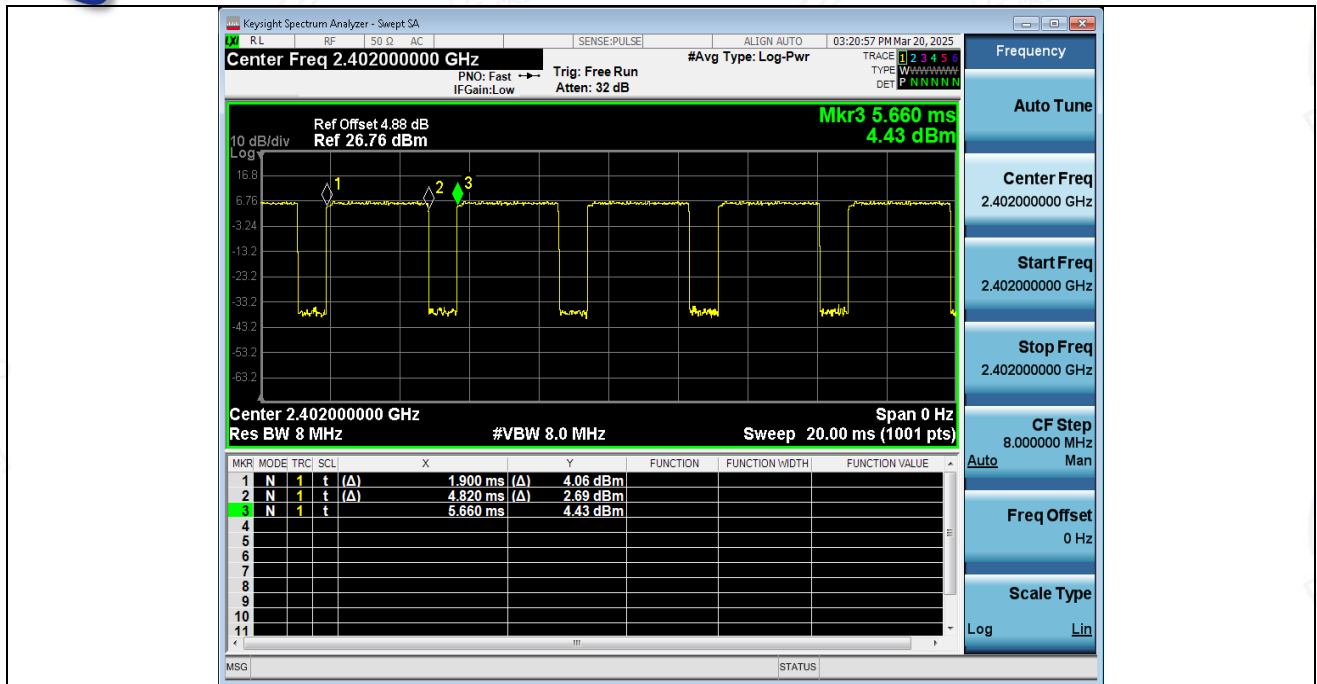




Duty Cycle_NVNT_ANT1_2-DH5_2441

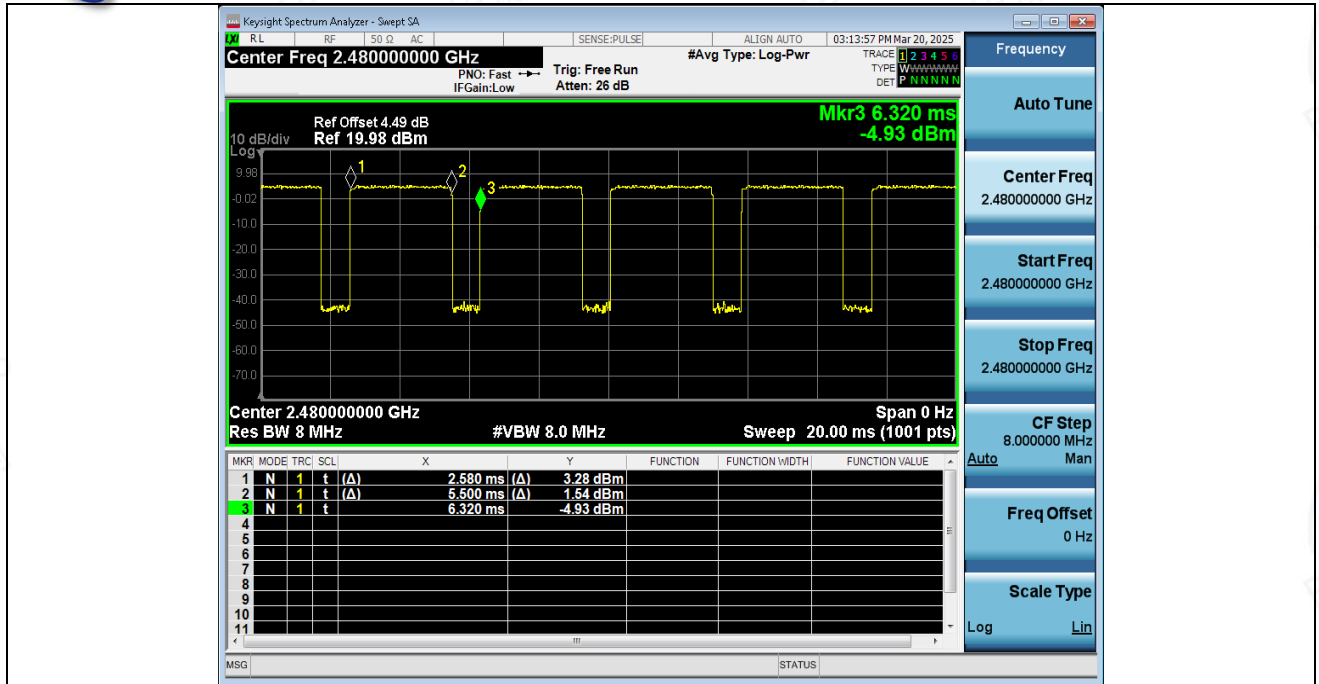






Duty Cycle_NVNT_ANT1_3-DH5_2480





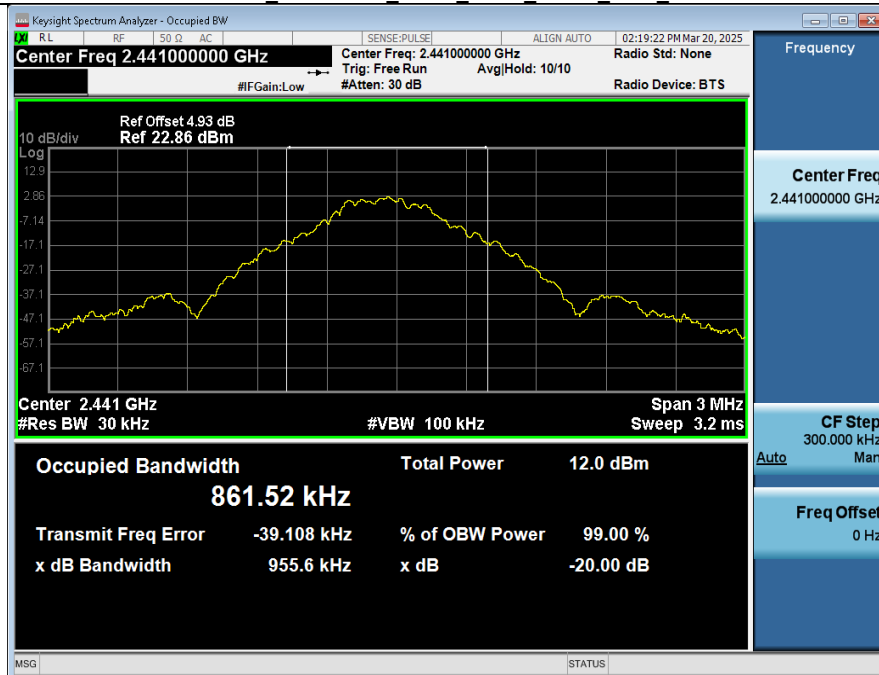
2. -20dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH5	2402.00	0.954	No
NVNT	ANT1	1-DH5	2441.00	0.956	No
NVNT	ANT1	1-DH5	2480.00	0.959	No
NVNT	ANT1	2-DH5	2402.00	1.273	Yes
NVNT	ANT1	2-DH5	2441.00	1.281	Yes
NVNT	ANT1	2-DH5	2480.00	1.278	Yes
NVNT	ANT1	3-DH5	2402.00	1.287	Yes
NVNT	ANT1	3-DH5	2441.00	1.292	Yes
NVNT	ANT1	3-DH5	2480.00	1.285	Yes

-20dB Bandwidth_NVNT_ANT1_1-DH5_2402_00

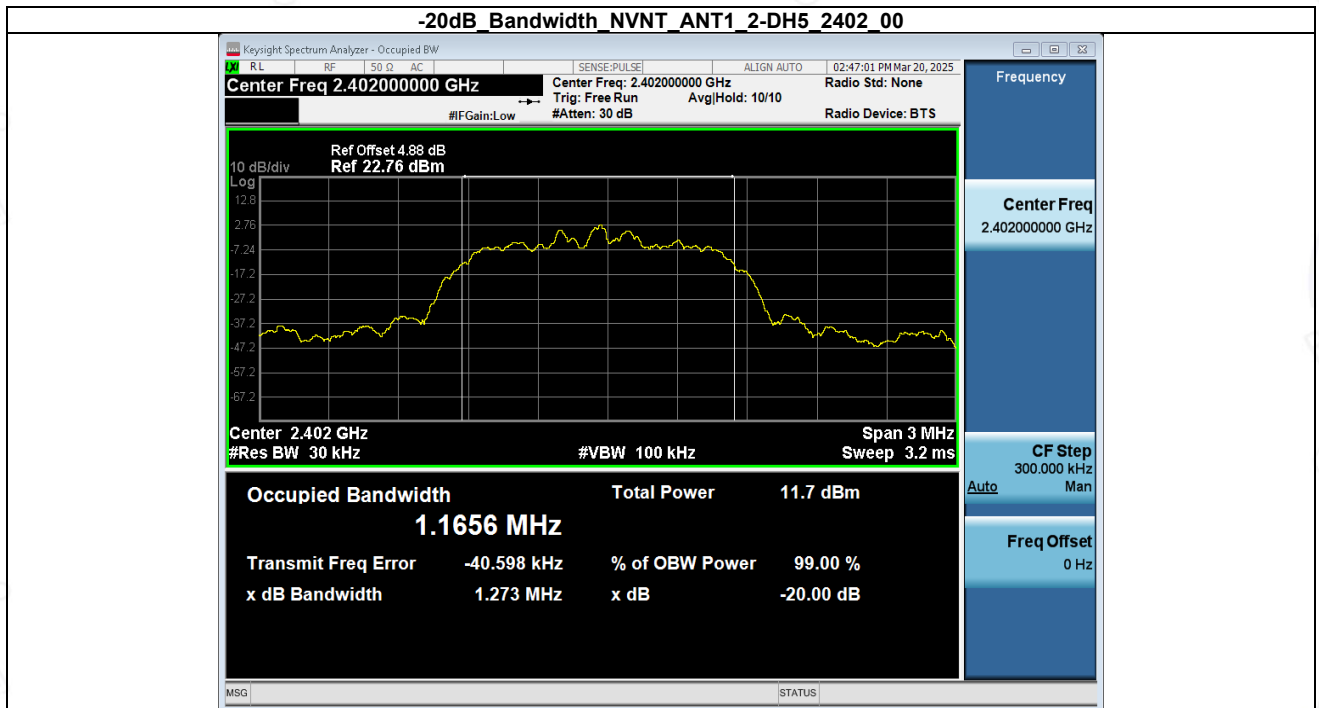


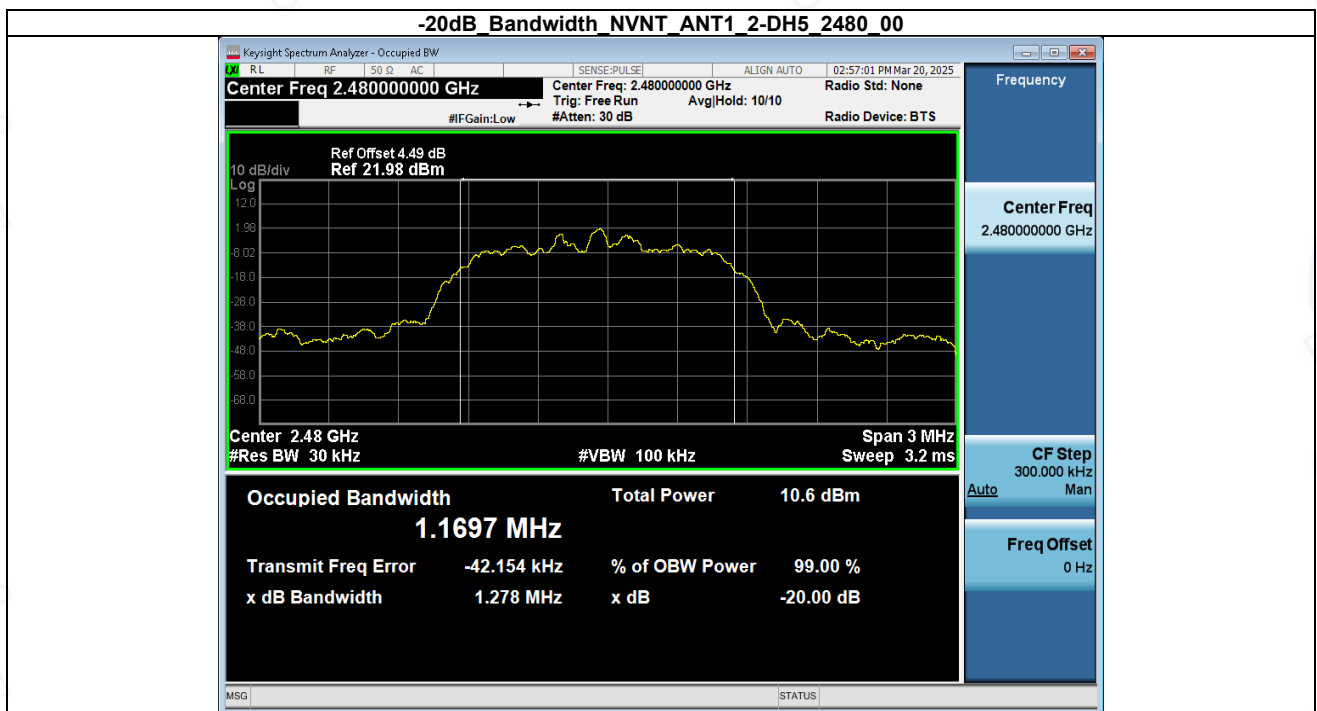
-20dB Bandwidth_NVNT_ANT1_1-DH5_2441_00

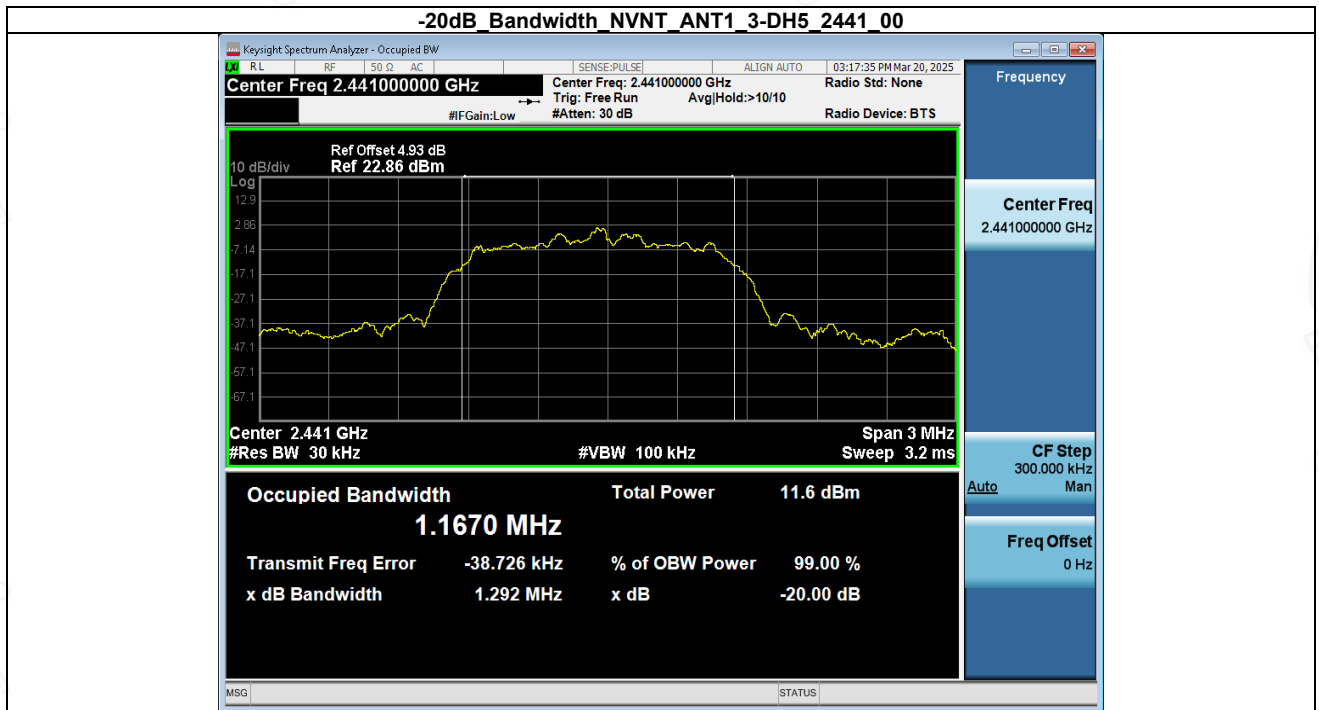


-20dB Bandwidth_NVNT_ANT1_1-DH5_2480_00











3. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	1-DH5	2402.00	0.862
NVNT	ANT1	1-DH5	2441.00	0.859
NVNT	ANT1	1-DH5	2480.00	0.863
NVNT	ANT1	2-DH5	2402.00	1.165
NVNT	ANT1	2-DH5	2441.00	1.172
NVNT	ANT1	2-DH5	2480.00	1.167
NVNT	ANT1	3-DH5	2402.00	1.165
NVNT	ANT1	3-DH5	2441.00	1.162
NVNT	ANT1	3-DH5	2480.00	1.166

99% Occupied Bandwidth NVNT ANT1 1-DH5 2402_00



99% Occupied Bandwidth NVNT ANT1 1-DH5 2441_00

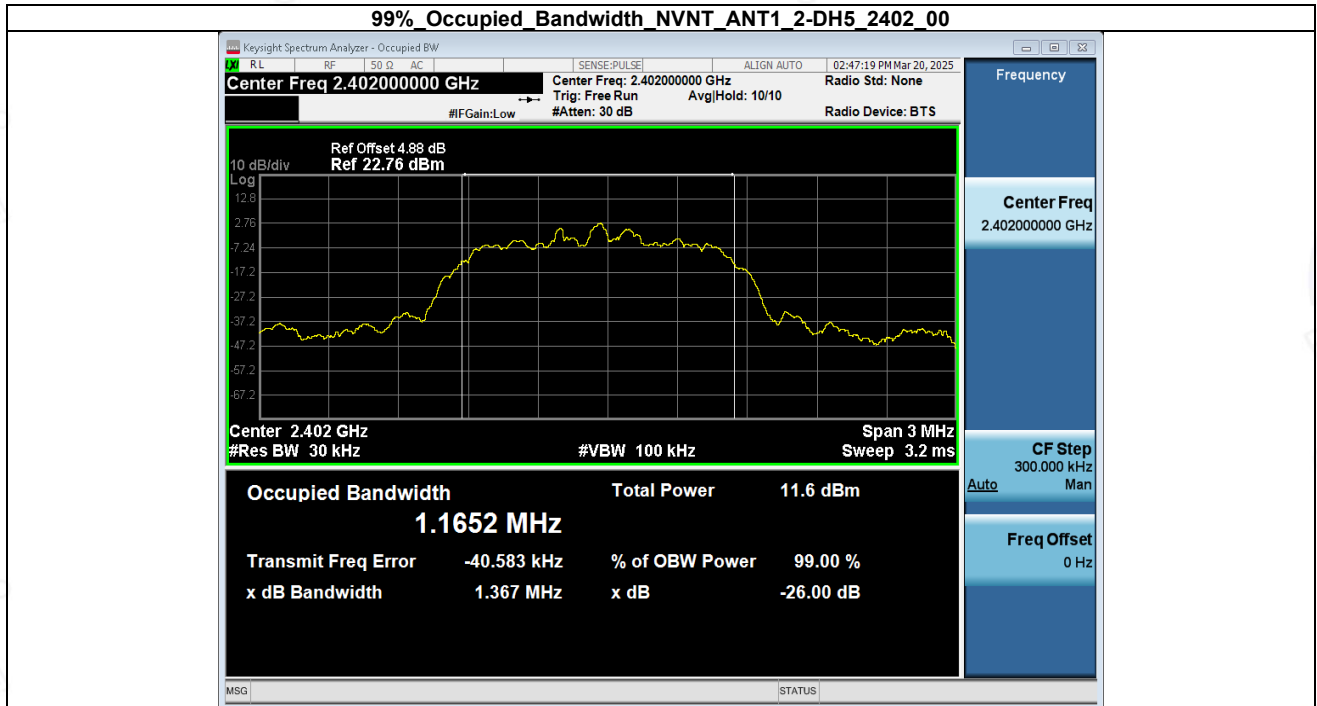


99% Occupied Bandwidth NVNT ANT1 1-DH5 2480_00





99% Occupied Bandwidth NVNT_ANT1_2-DH5_2402_00

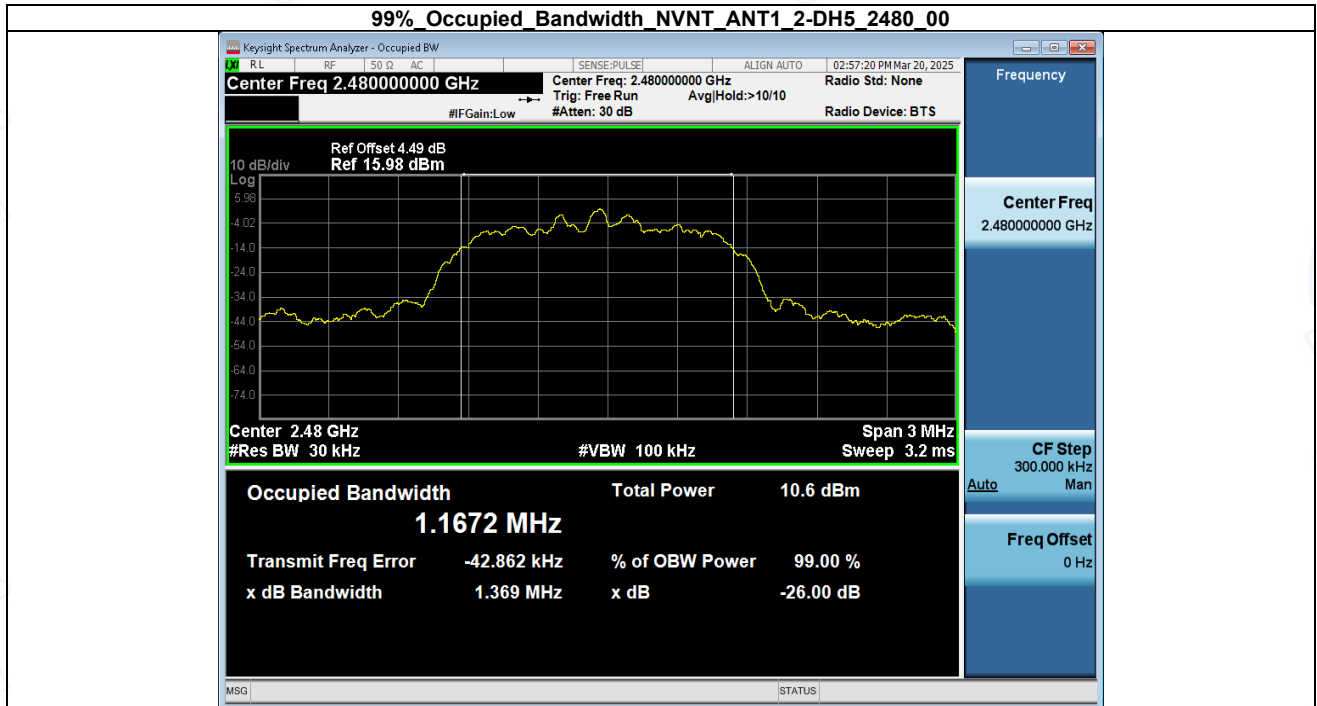


99% Occupied Bandwidth NVNT_ANT1_2-DH5_2441_00





99% Occupied Bandwidth_NVNT_ANT1_2-DH5_2480_00

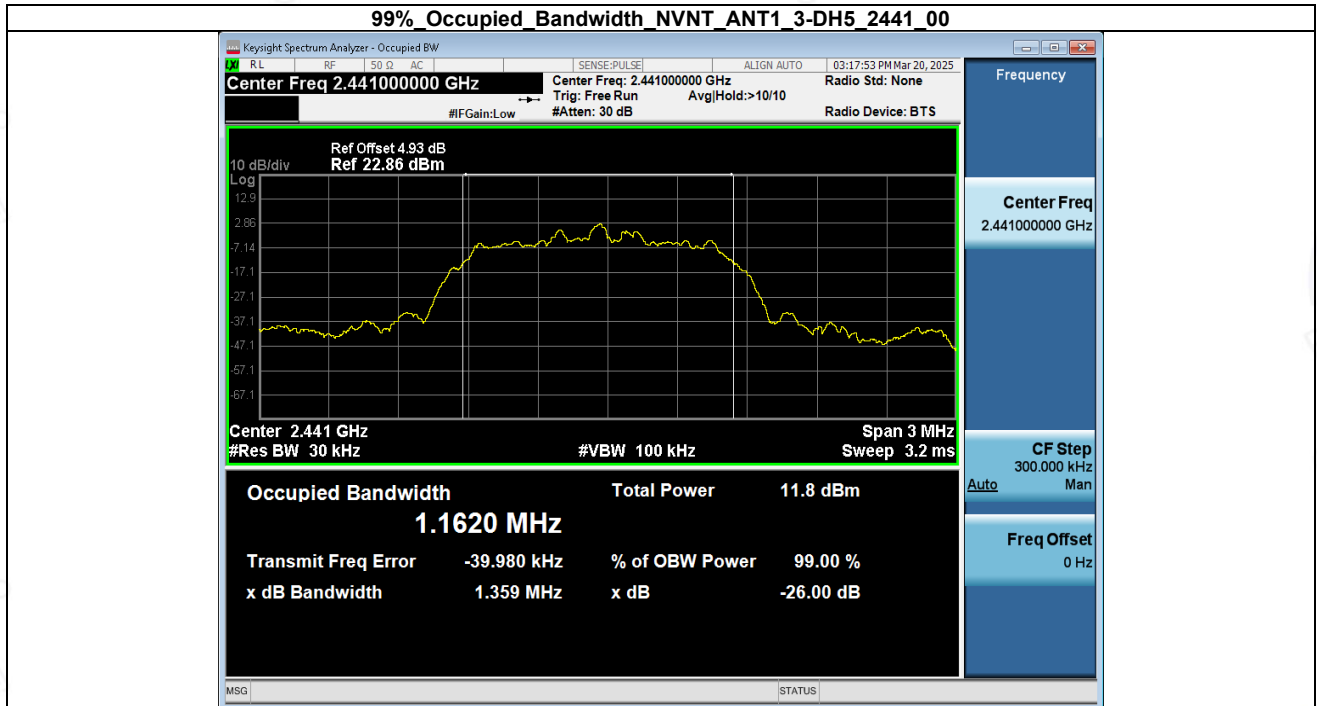


99% Occupied Bandwidth_NVNT_ANT1_3-DH5_2402_00



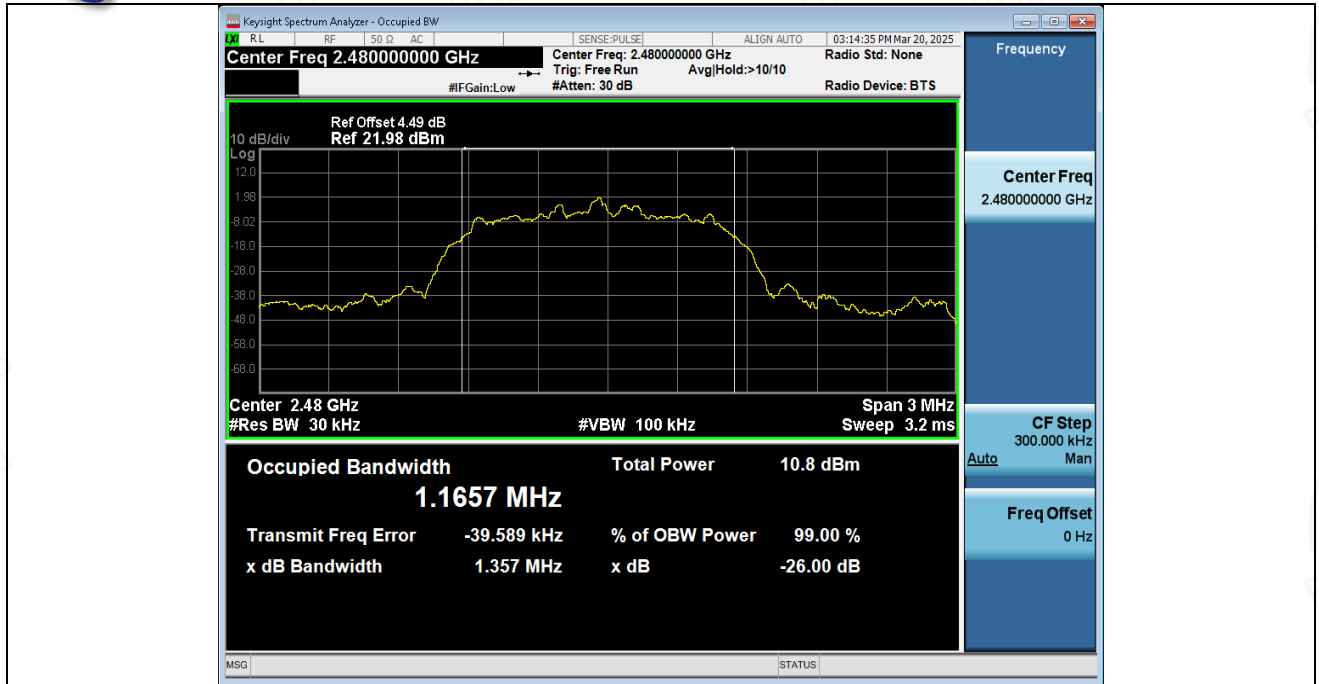


99% Occupied Bandwidth_NVNT_ANT1_3-DH5_2441_00



99% Occupied Bandwidth_NVNT_ANT1_3-DH5_2480_00

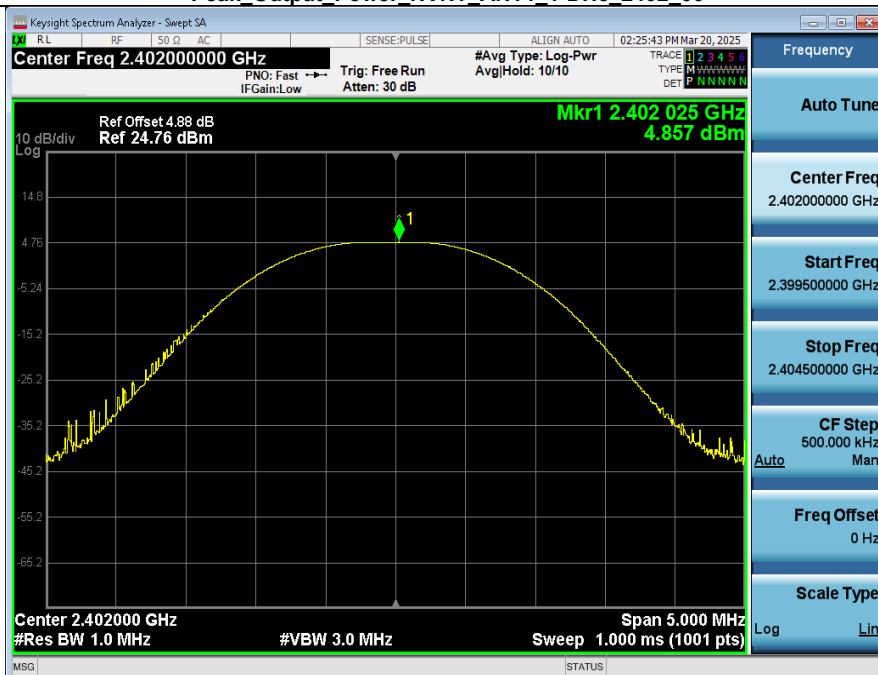




4. Peak Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1-DH5	2402.00	4.86	3.06	1000	Pass
NVNT	ANT1	1-DH5	2441.00	4.60	2.89	1000	Pass
NVNT	ANT1	1-DH5	2480.00	3.74	2.37	1000	Pass
NVNT	ANT1	2-DH5	2402.00	5.83	3.83	125	Pass
NVNT	ANT1	2-DH5	2441.00	5.54	3.58	125	Pass
NVNT	ANT1	2-DH5	2480.00	4.68	2.94	125	Pass
NVNT	ANT1	3-DH5	2402.00	6.39	4.36	125	Pass
NVNT	ANT1	3-DH5	2441.00	6.14	4.11	125	Pass
NVNT	ANT1	3-DH5	2480.00	5.25	3.35	125	Pass

Peak Output Power NVNT_ANT1_1-DH5_2402_00

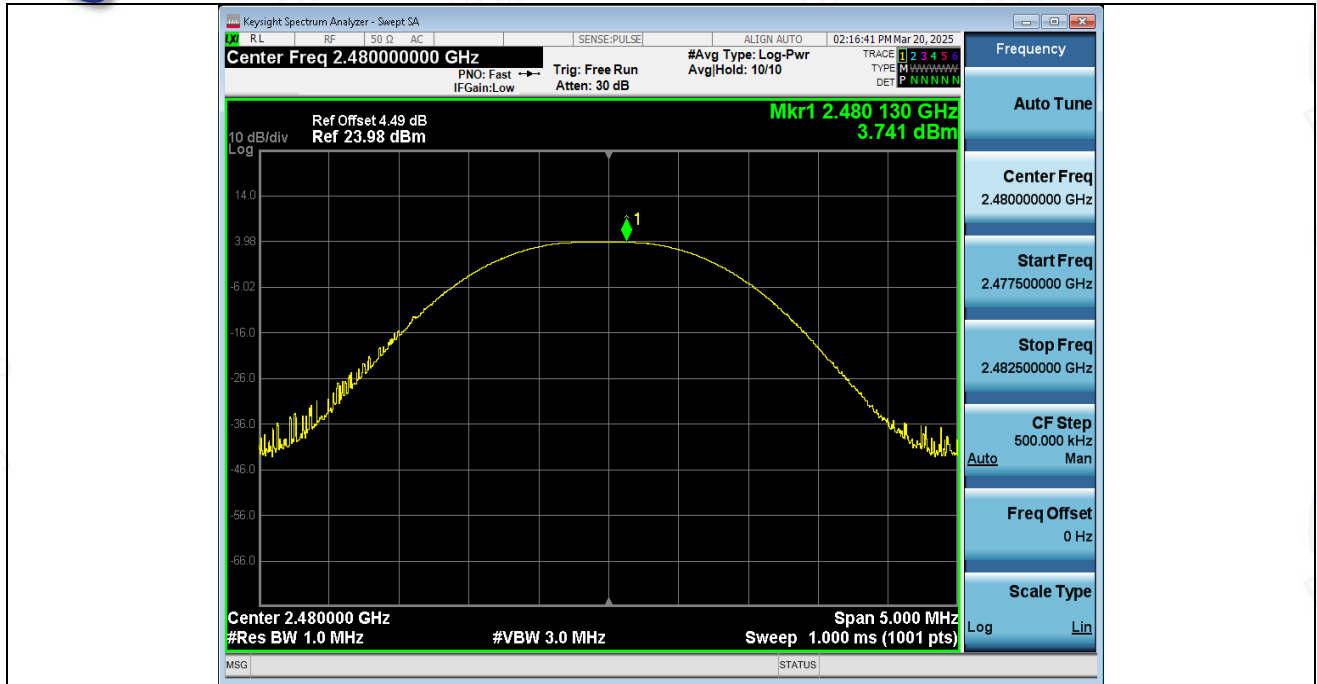


Peak Output Power NVNT_ANT1_1-DH5_2441_00

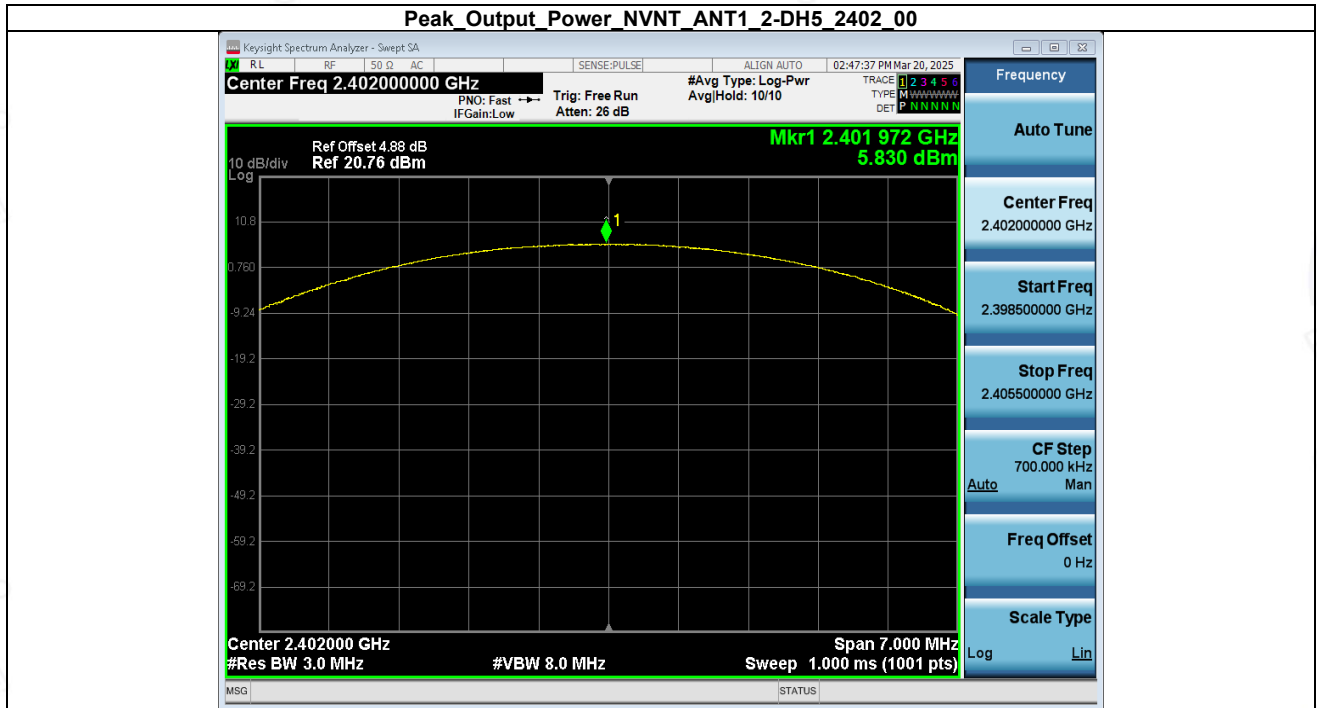


Peak Output Power NVNT_ANT1_1-DH5_2480_00





Peak_Output_Power_NVNT_ANT1_2-DH5_2402_00

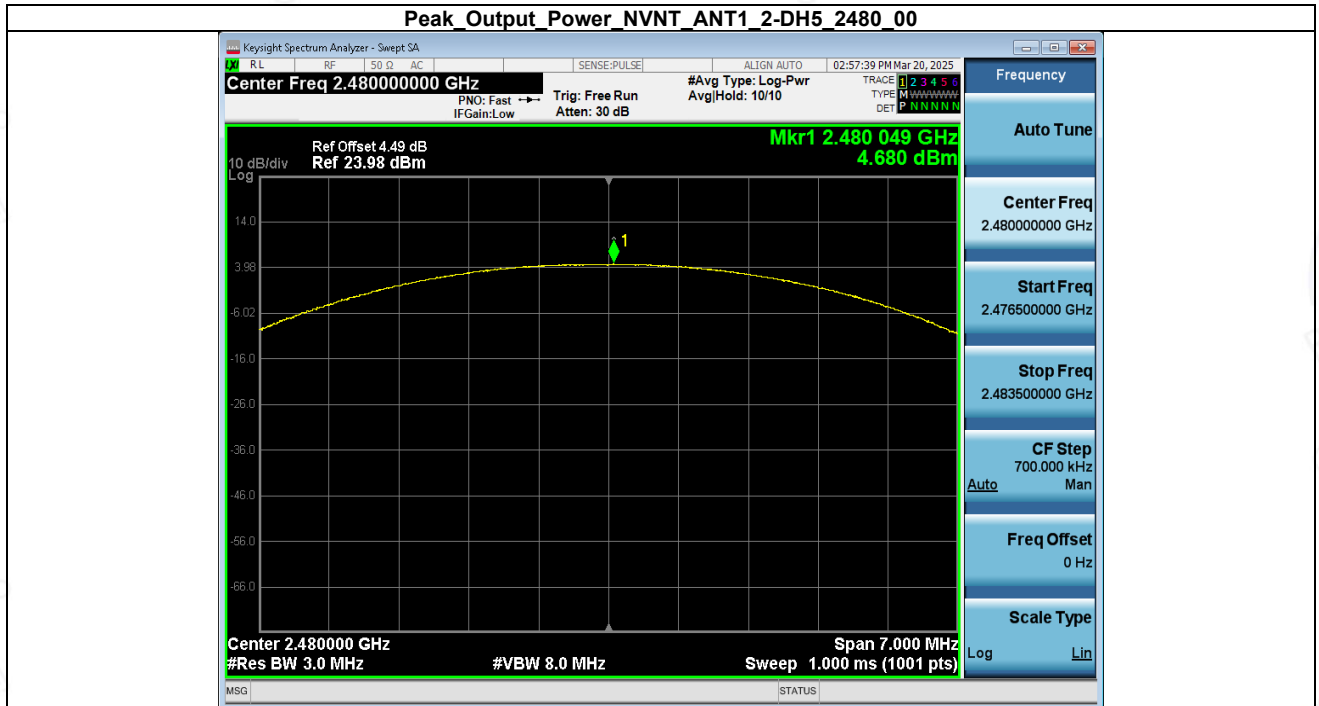


Peak_Output_Power_NVNT_ANT1_2-DH5_2441_00



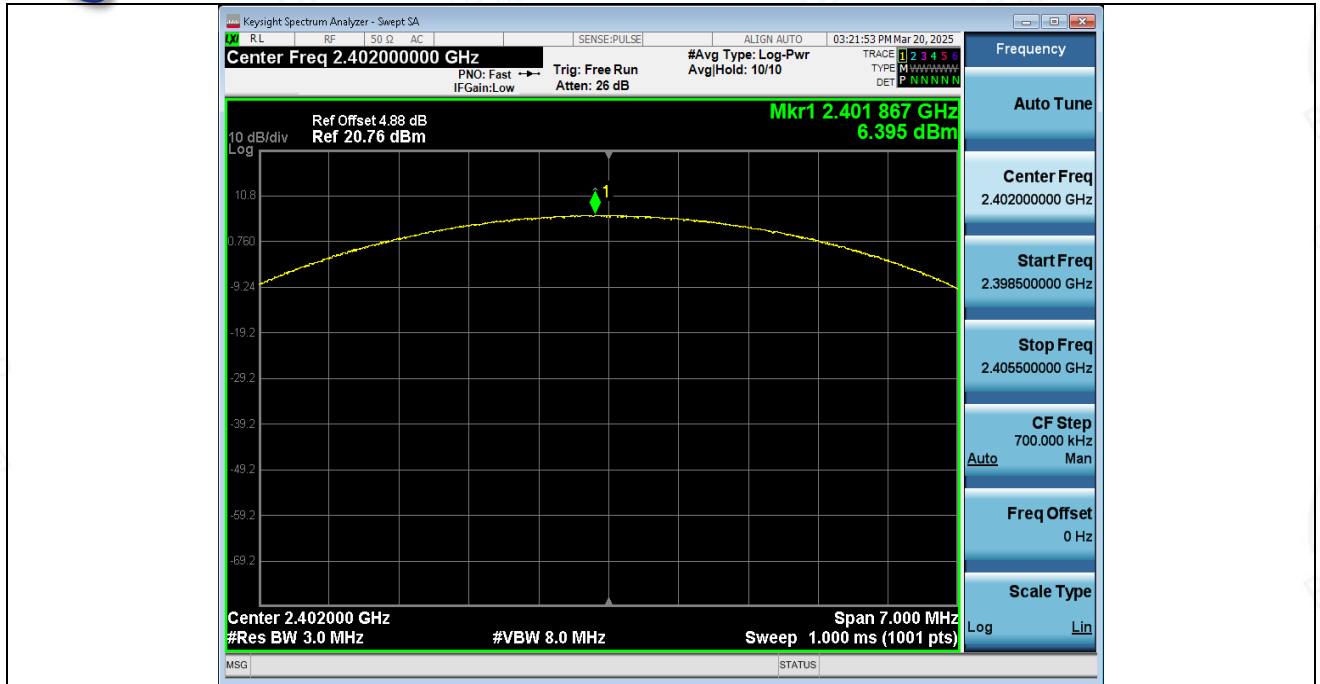


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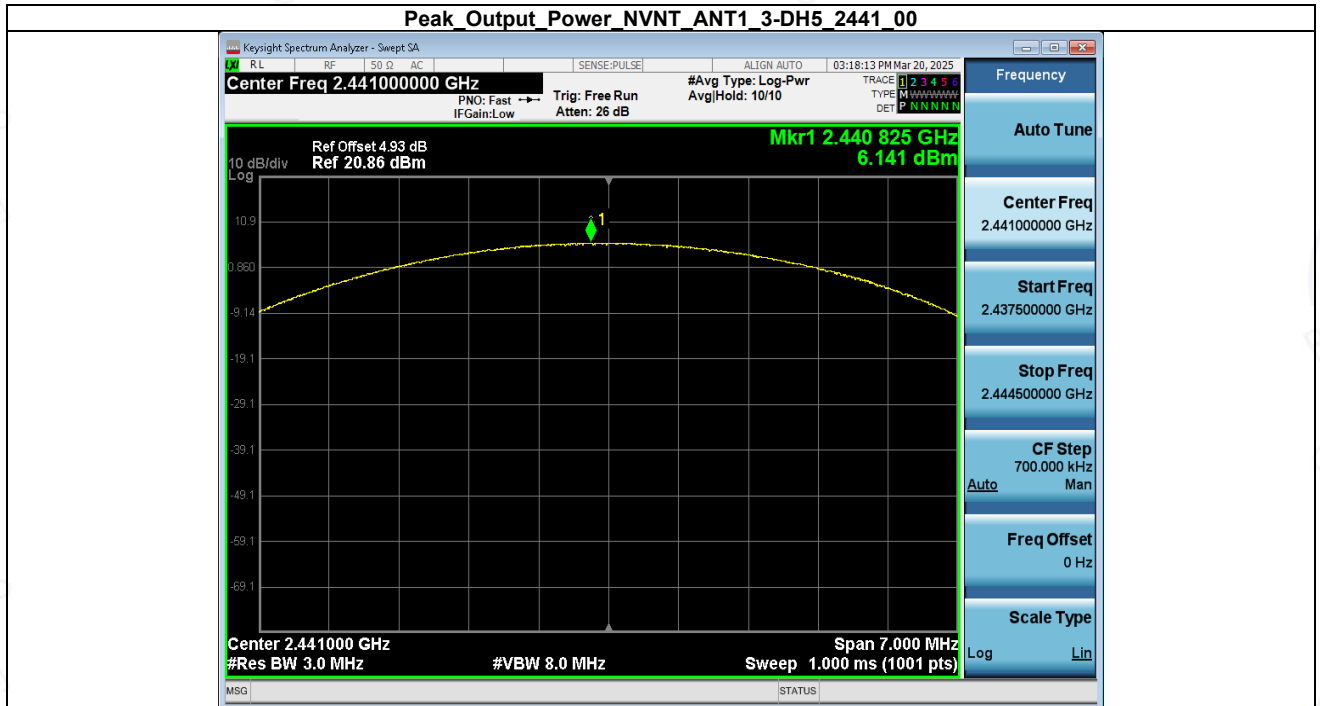


Peak_Output_Power_NVNT_ANT1_3-DH5_2402_00



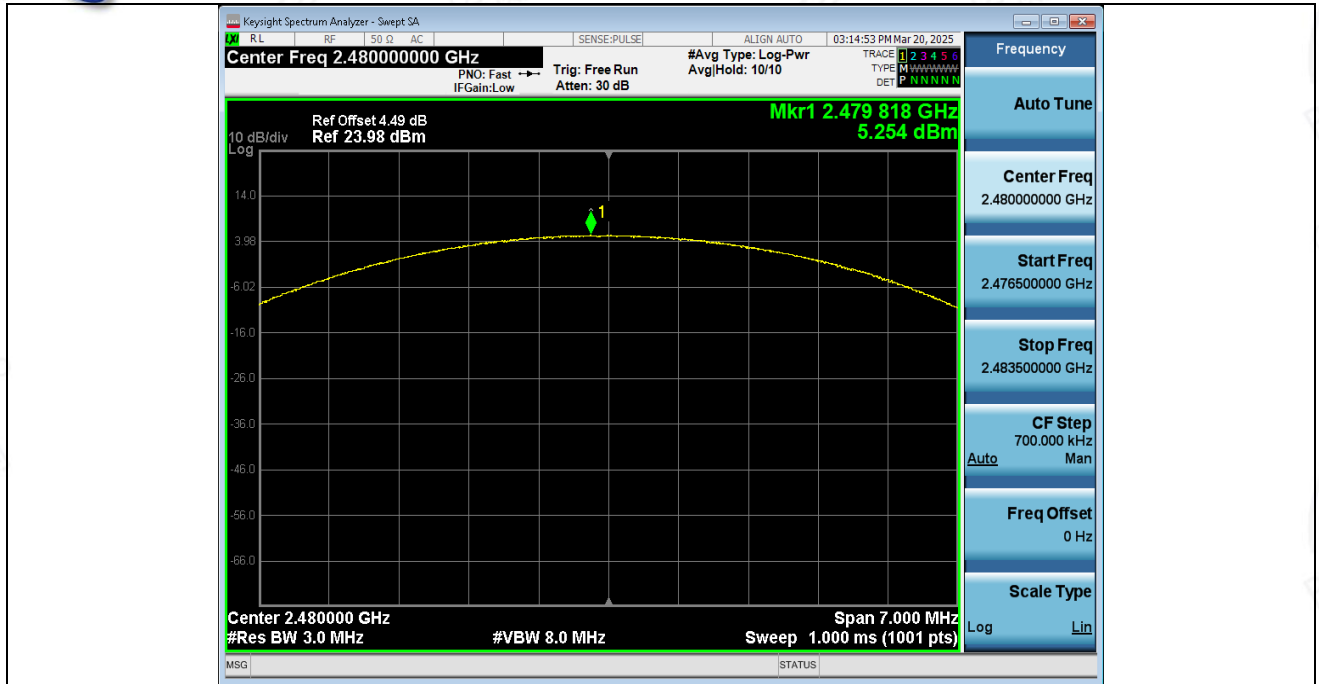


Peak_Output_Power_NVNT_ANT1_3-DH5_2441_00



Peak_Output_Power_NVNT_ANT1_3-DH5_2480_00

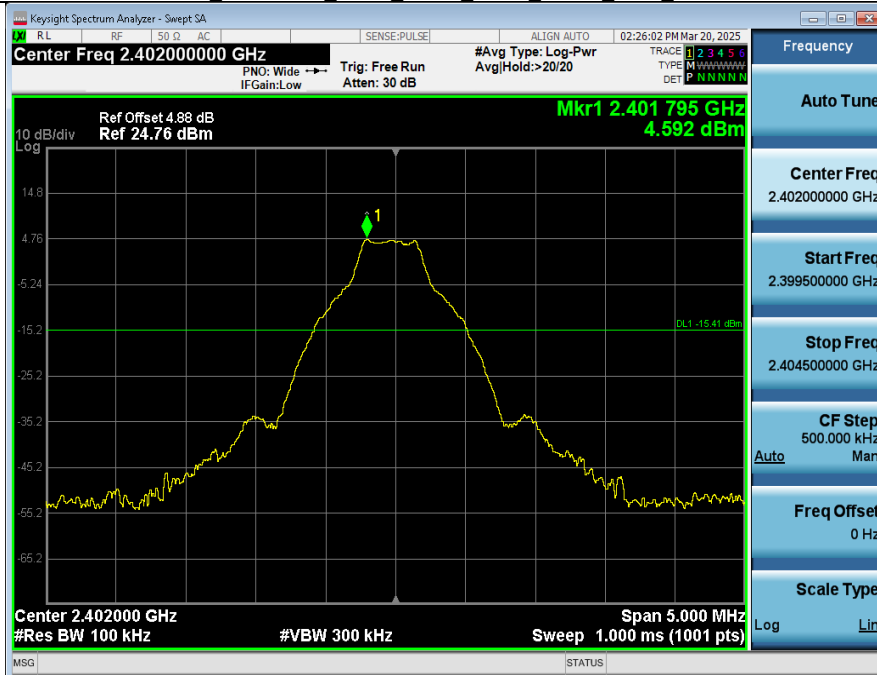




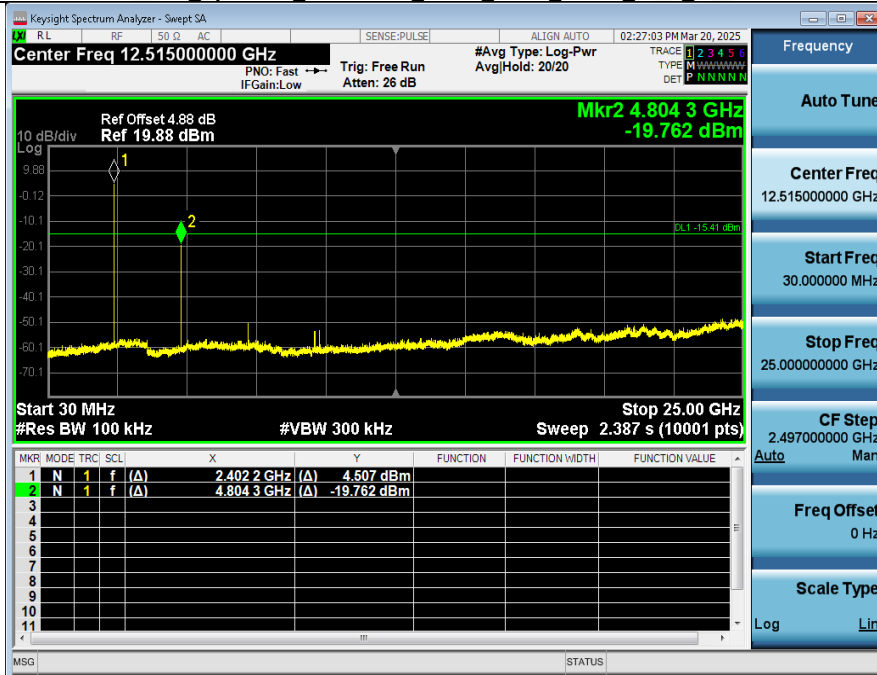
5. Spurious Emissions

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH5	2402.00	4.592	-19.762	-15.408	Pass
NVNT	ANT1	1-DH5	2441.00	4.344	-20.613	-15.656	Pass
NVNT	ANT1	1-DH5	2480.00	3.380	-22.228	-16.620	Pass
NVNT	ANT1	2-DH5	2402.00	4.509	-21.176	-15.491	Pass
NVNT	ANT1	2-DH5	2441.00	4.219	-24.568	-15.781	Pass
NVNT	ANT1	2-DH5	2480.00	3.225	-23.079	-16.775	Pass
NVNT	ANT1	3-DH5	2402.00	4.493	-20.513	-15.507	Pass
NVNT	ANT1	3-DH5	2441.00	4.165	-20.138	-15.835	Pass
NVNT	ANT1	3-DH5	2480.00	3.206	-25.614	-16.794	Pass

1 Reference Level NVNT ANT1 1-DH5 2402 00



2 Spurious Emissions NVNT ANT1 1-DH5 2402 00

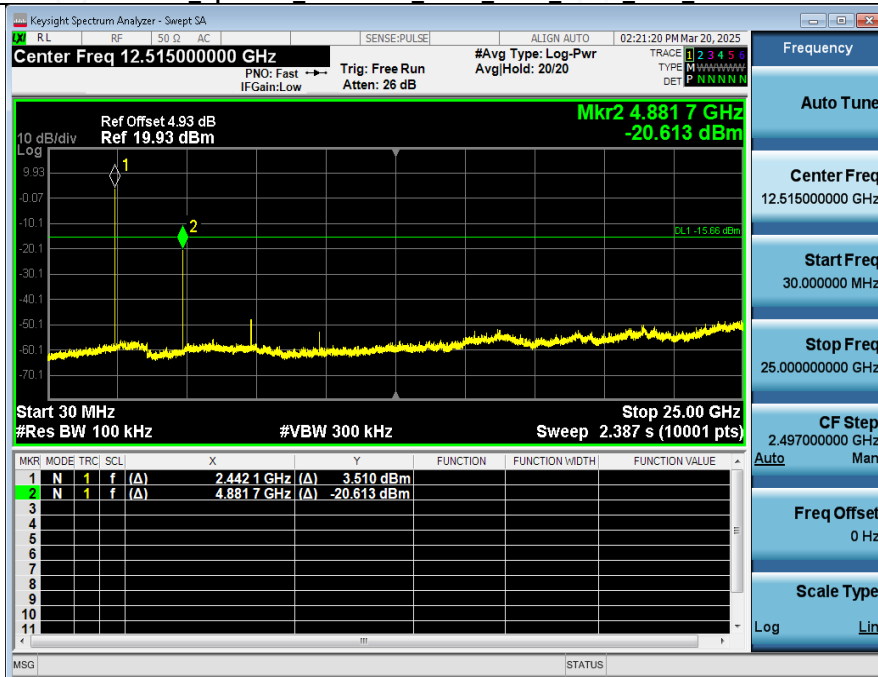


1 Reference Level NVNT ANT1 1-DH5 2441 00





2_Spurious_Emissions_NVNT_ANT1_1-DH5_2441_00

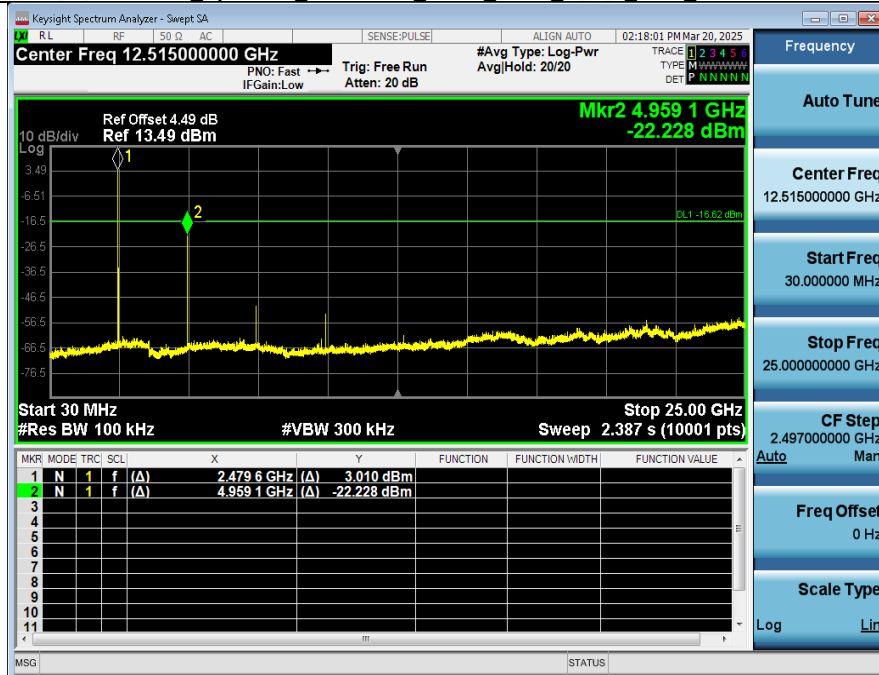


1_Reference_Level_NVNT_ANT1_1-DH5_2480_00





2_Spurious_Emissions_NVNT_ANT1_1-DH5_2480_00

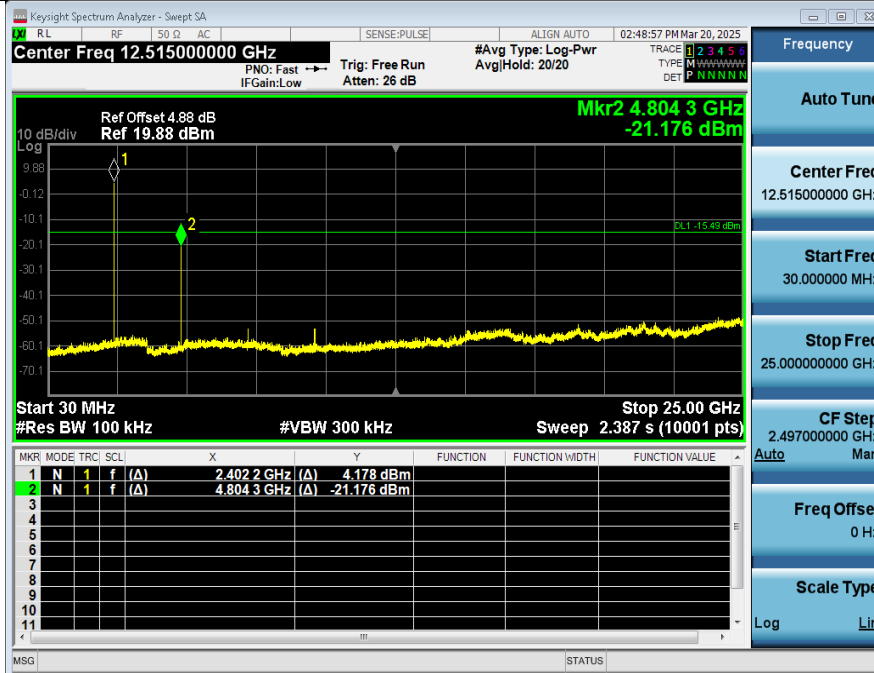


1_Reference_Level_NVNT_ANT1_2-DH5_2402_00





2_Spurious_Emissions_NVNT_ANT1_2-DH5_2402_00

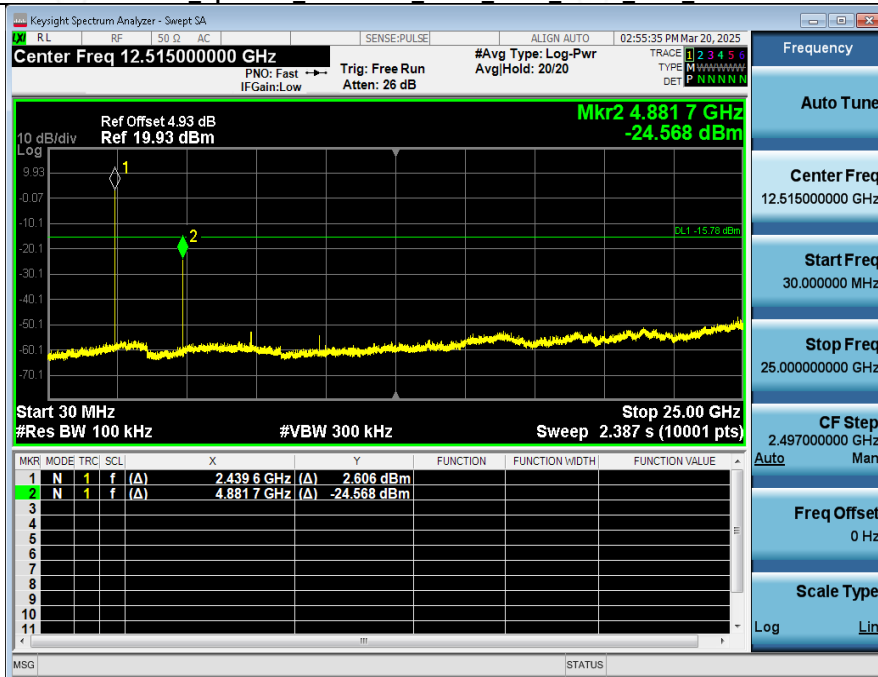


1_Reference_Level_NVNT_ANT1_2-DH5_2441_00





2_Spurious_Emissions_NVNT_ANT1_2-DH5_2441_00

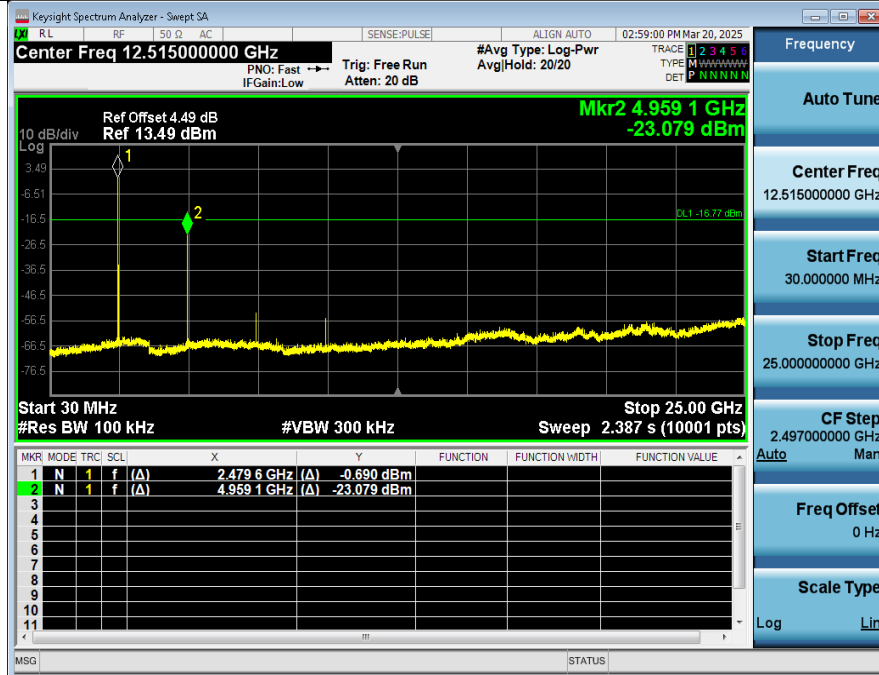


1_Reference_Level_NVNT_ANT1_2-DH5_2480_00





2_Spurious_Emissions_NVNT_ANT1_2-DH5_2480_00

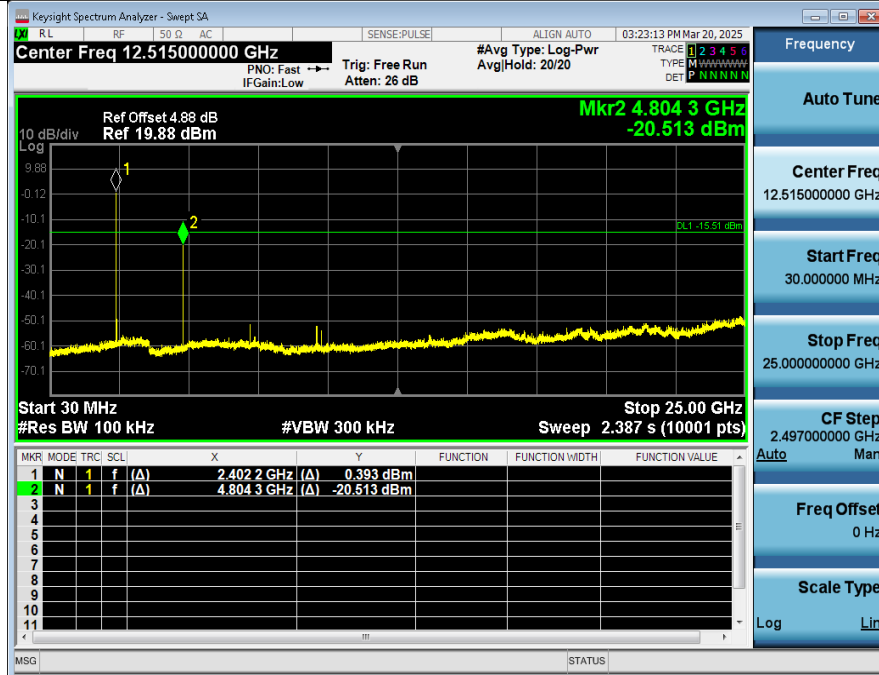


1_Reference_Level_NVNT_ANT1_3-DH5_2402_00





2_Spurious_Emissions_NVNT_ANT1_3-DH5_2402_00

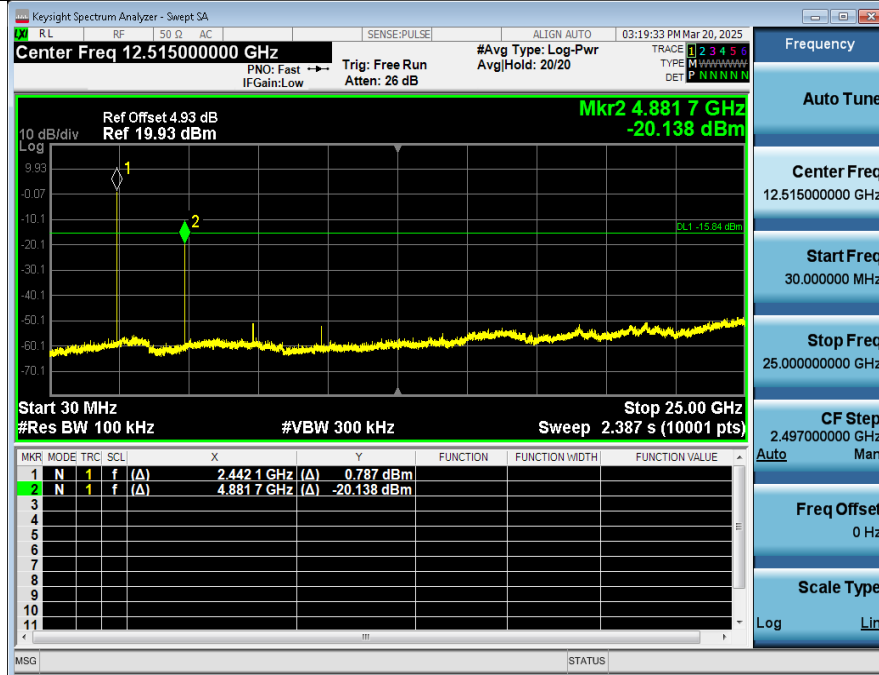


1_Reference_Level_NVNT_ANT1_3-DH5_2441_00



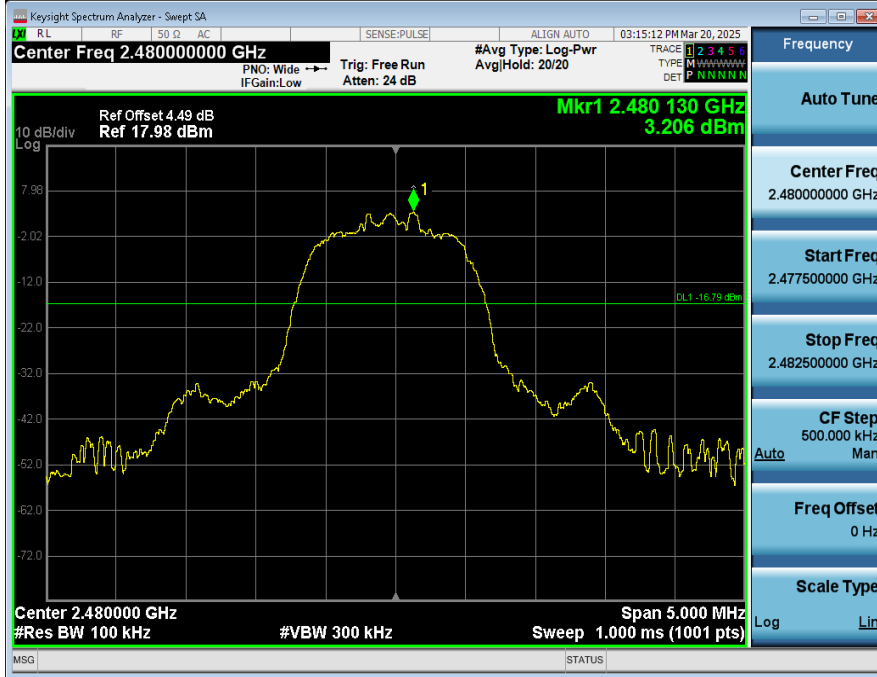


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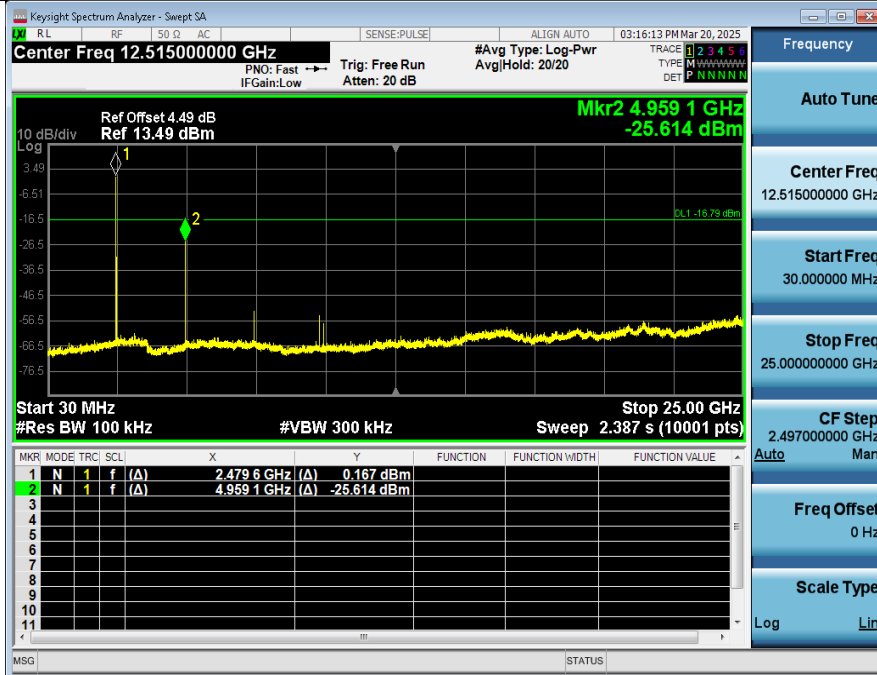


1_Reference_Level_NVNT_ANT1_3-DH5_2480_00





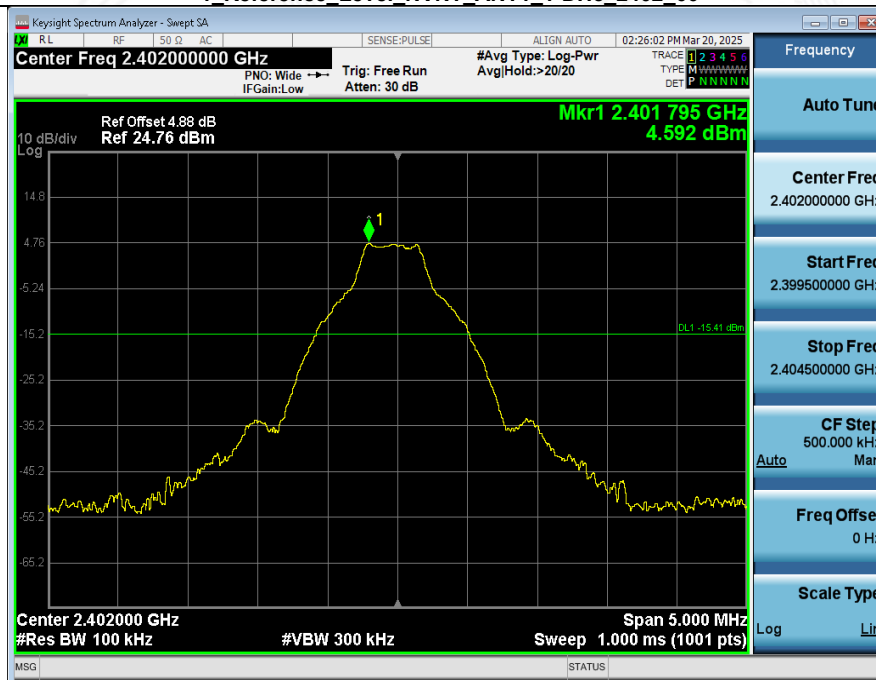
2 Spurious Emissions NVNT ANT1 3-DH5 2480 00



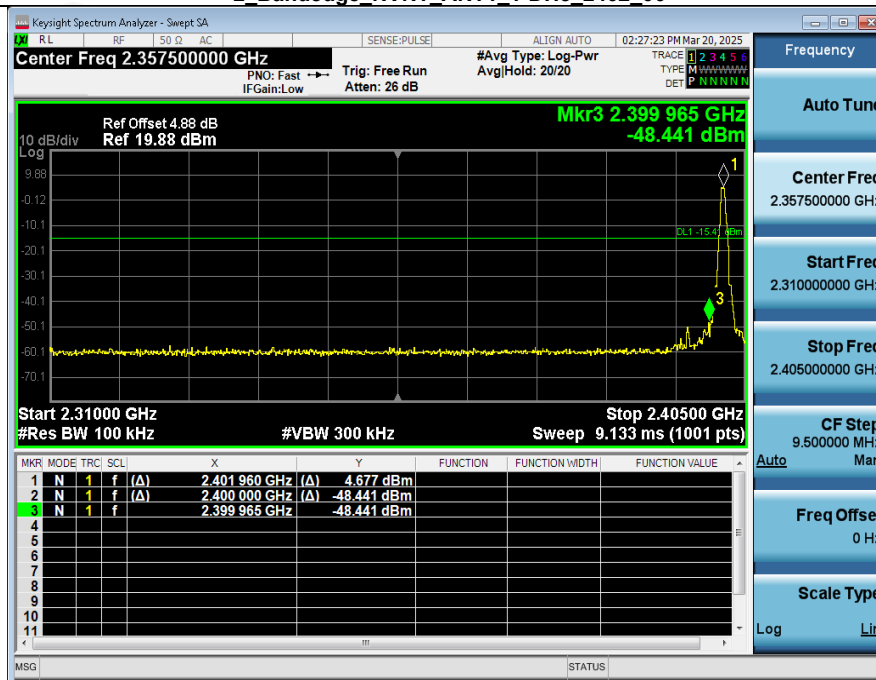
6. Bandedge

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Bandedge MAX.Value	Limit	Result
NVNT	ANT1	1-DH5	2402.00	4.592	-48.441	-15.408	Pass
NVNT	ANT1	1-DH5	Hopping_LCH	4.600	-51.524	-15.400	Pass
NVNT	ANT1	1-DH5	2480.00	3.380	-51.268	-16.620	Pass
NVNT	ANT1	1-DH5	Hopping_HCH	4.188	-52.708	-15.812	Pass
NVNT	ANT1	2-DH5	2402.00	4.509	-46.447	-15.491	Pass
NVNT	ANT1	2-DH5	Hopping_LCH	4.252	-54.262	-15.748	Pass
NVNT	ANT1	2-DH5	2480.00	3.225	-51.798	-16.775	Pass
NVNT	ANT1	2-DH5	Hopping_HCH	4.112	-56.706	-15.888	Pass
NVNT	ANT1	3-DH5	2402.00	4.493	-44.544	-15.507	Pass
NVNT	ANT1	3-DH5	Hopping_LCH	4.451	-53.687	-15.549	Pass
NVNT	ANT1	3-DH5	2480.00	3.206	-51.847	-16.794	Pass
NVNT	ANT1	3-DH5	Hopping_HCH	4.265	-53.741	-15.735	Pass

1 Reference Level NVNT ANT1 1-DH5 2402_00

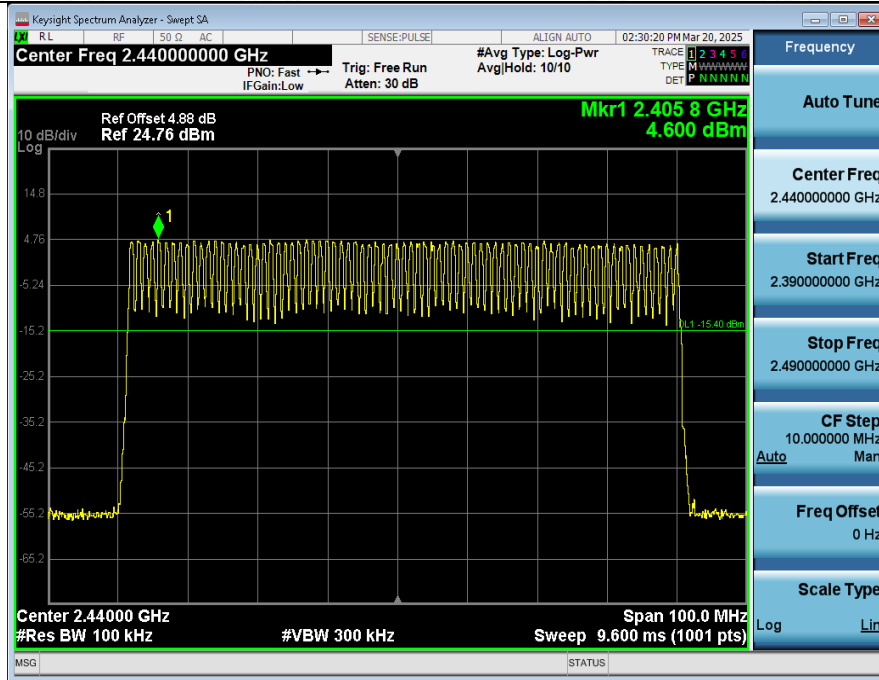


2 Bandedge NVNT ANT1 1-DH5 2402_00

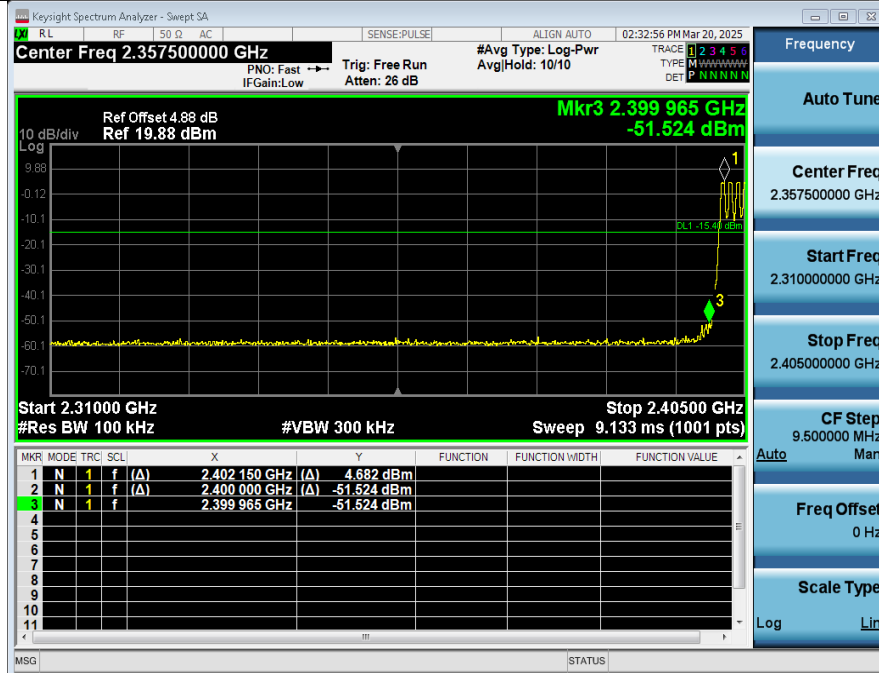


1 Reference Level Hopping NVNT ANT1 1-DH5 Hopping





2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH5_Hopping

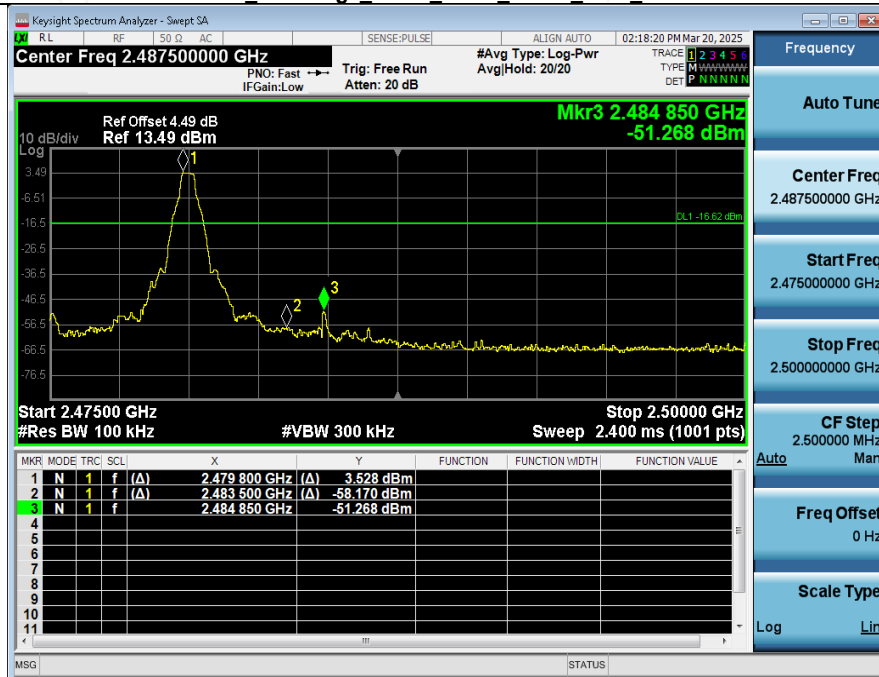


1_Reference_Level_NVNT_ANT1_1-DH5_2480_00



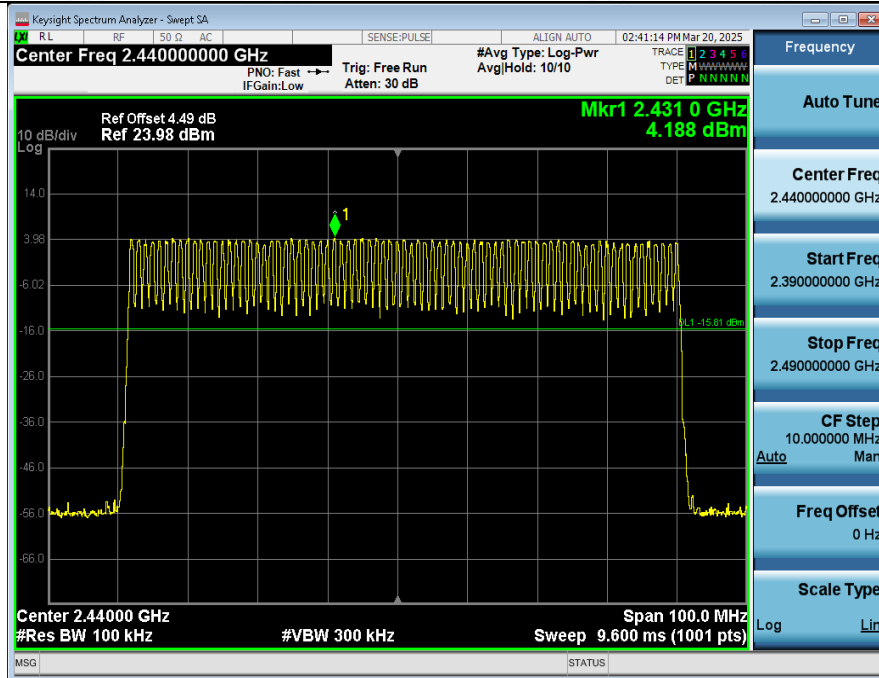


2_Bandedge_NVNT_ANT1_1-DH5_2480_00

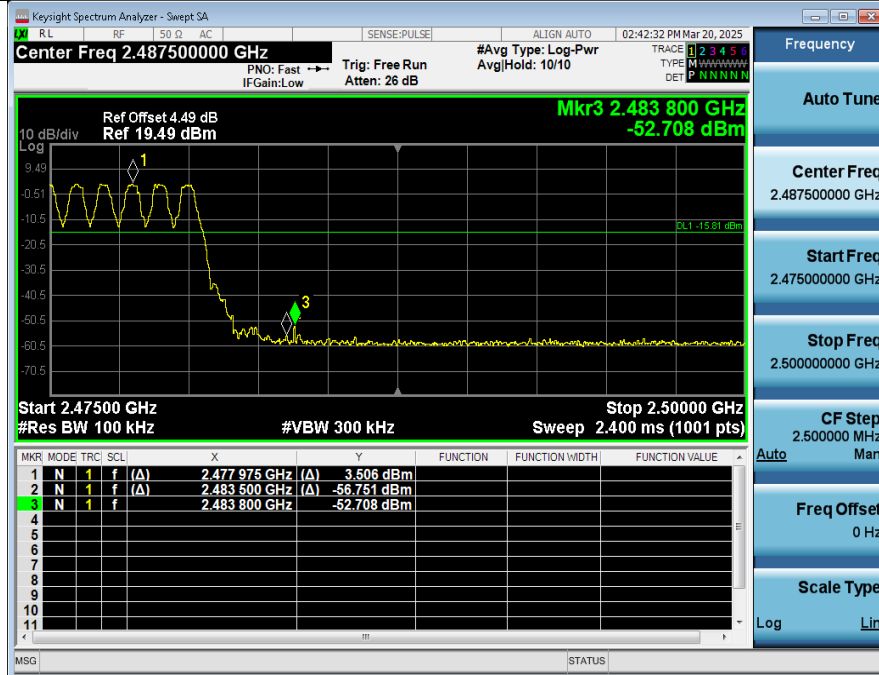


1_Reference_Level_Hopping_NVNT_ANT1_1-DH5_Hopping





2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH5_Hopping

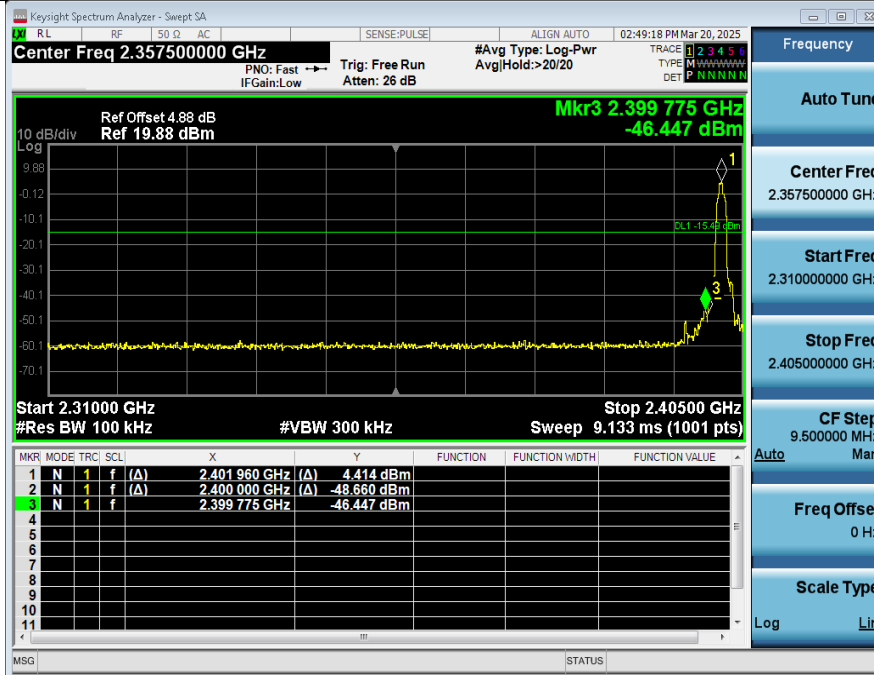


1_Reference_Level_NVNT_ANT1_2-DH5_2402_00



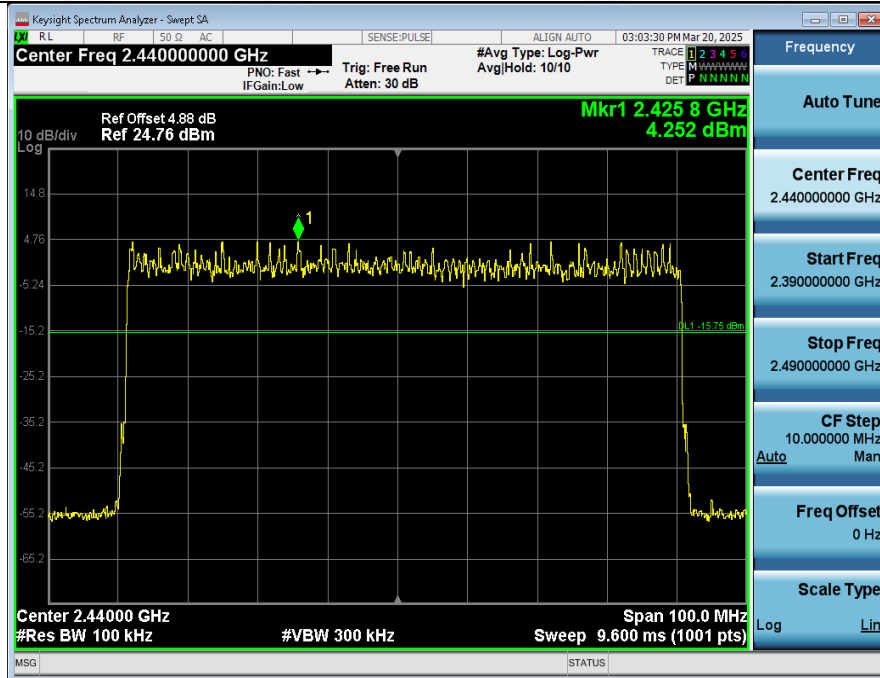


2_Bandedge_NVNT_ANT1_2-DH5_2402_00

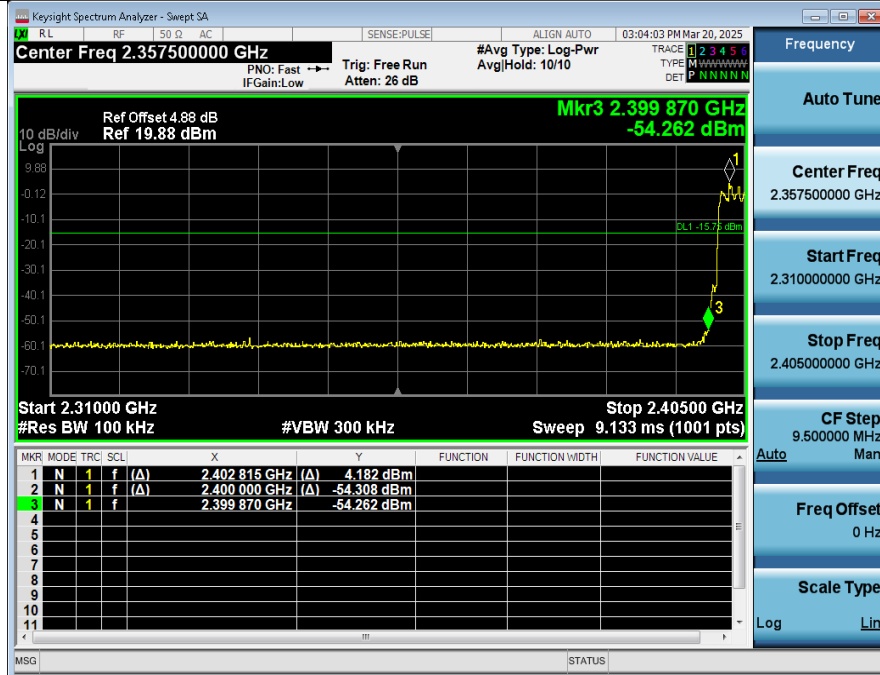


1_Reference_Level_Hopping_NVNT_ANT1_2-DH5_Hopping





2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH5_Hopping

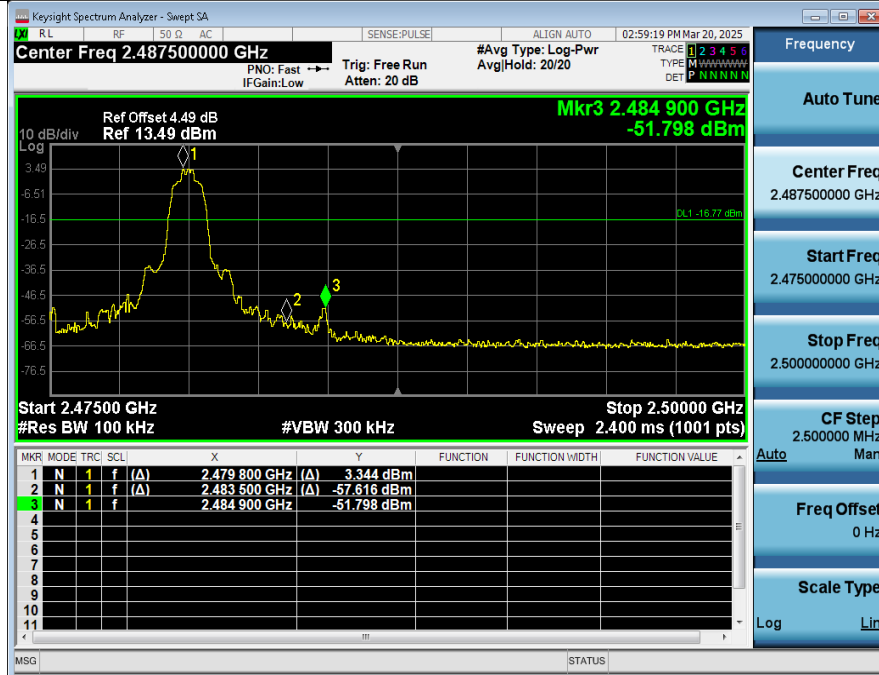


1_Reference_Level_NVNT_ANT1_2-DH5_2480_00



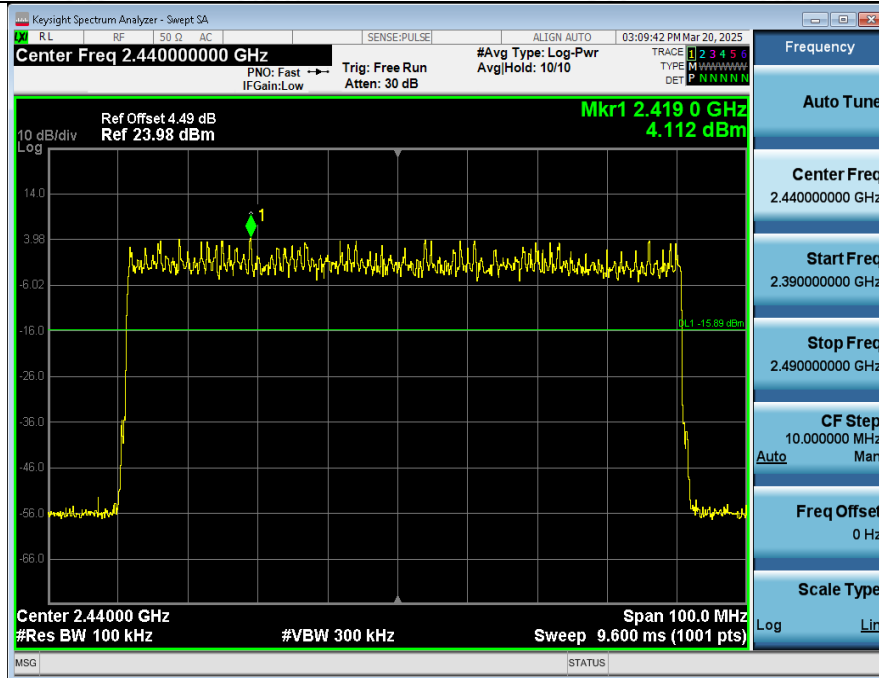


2_Bandedge_NVNT_ANT1_2-DH5_2480_00

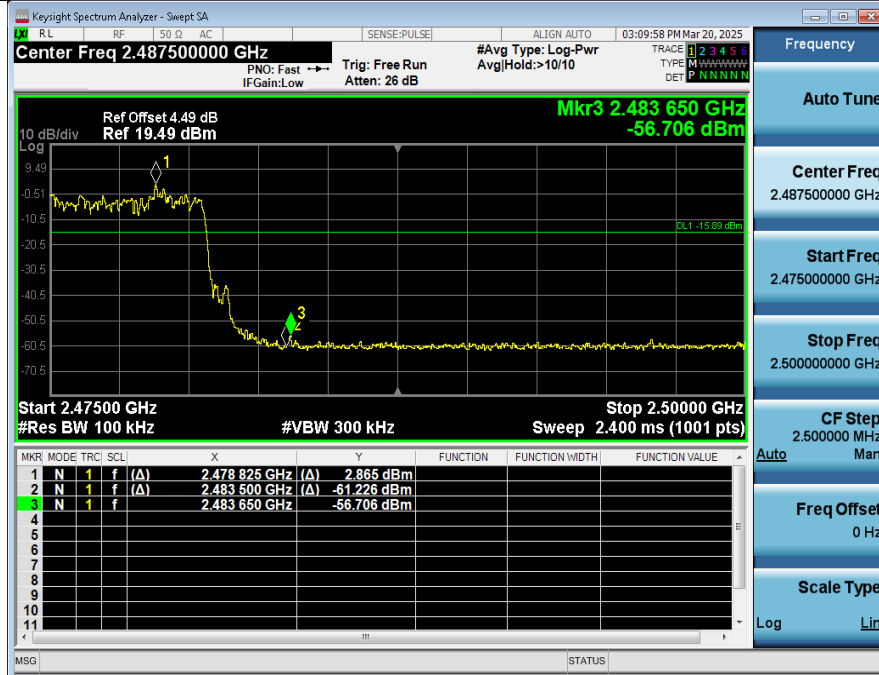


1_Reference_Level_Hopping_NVNT_ANT1_2-DH5_Hopping





2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH5_Hopping

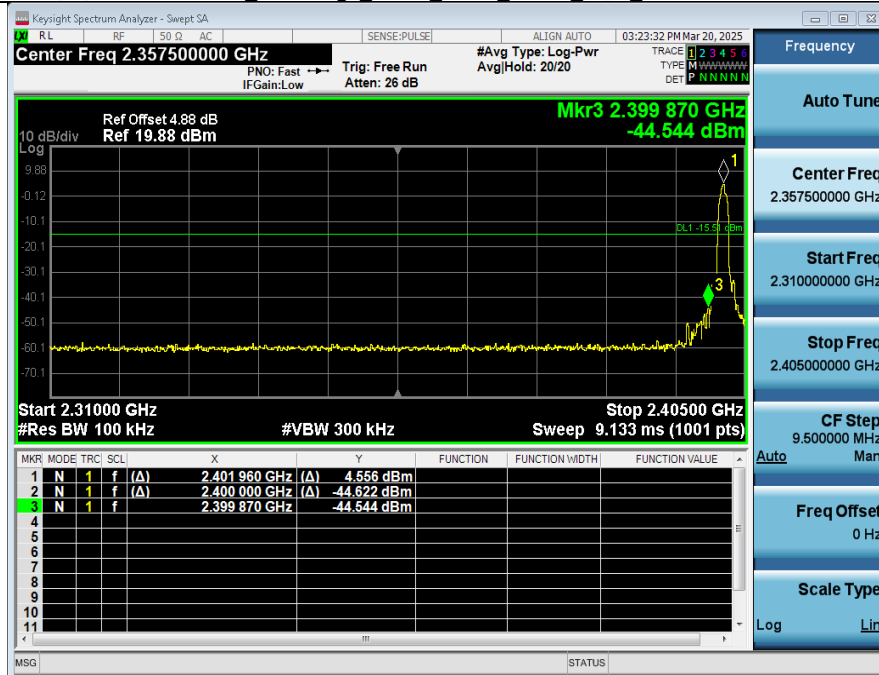


1_Reference_Level_NVNT_ANT1_3-DH5_2402_00



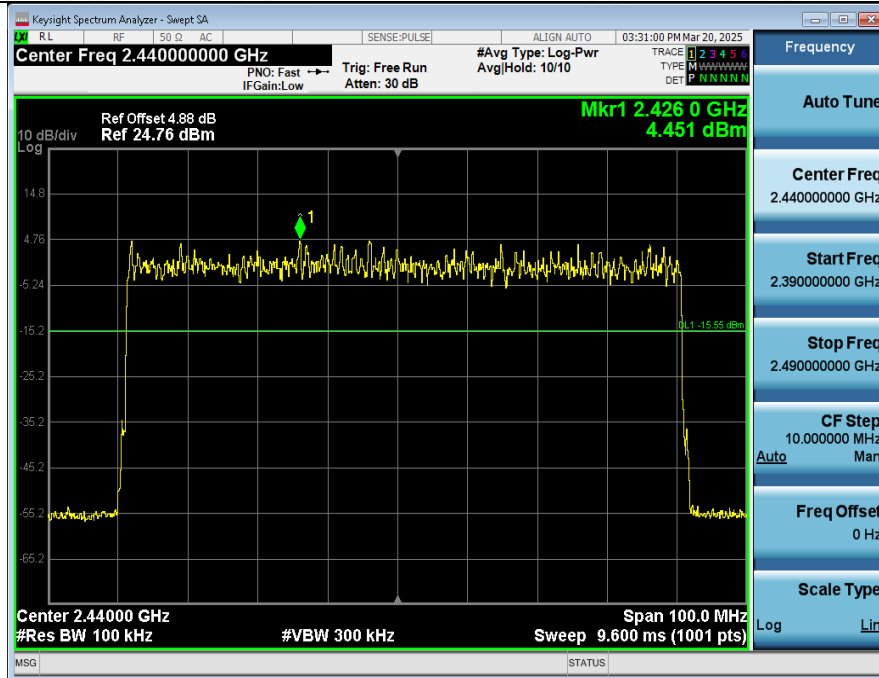


2_Bandedge_NVNT_ANT1_3-DH5_2402_00

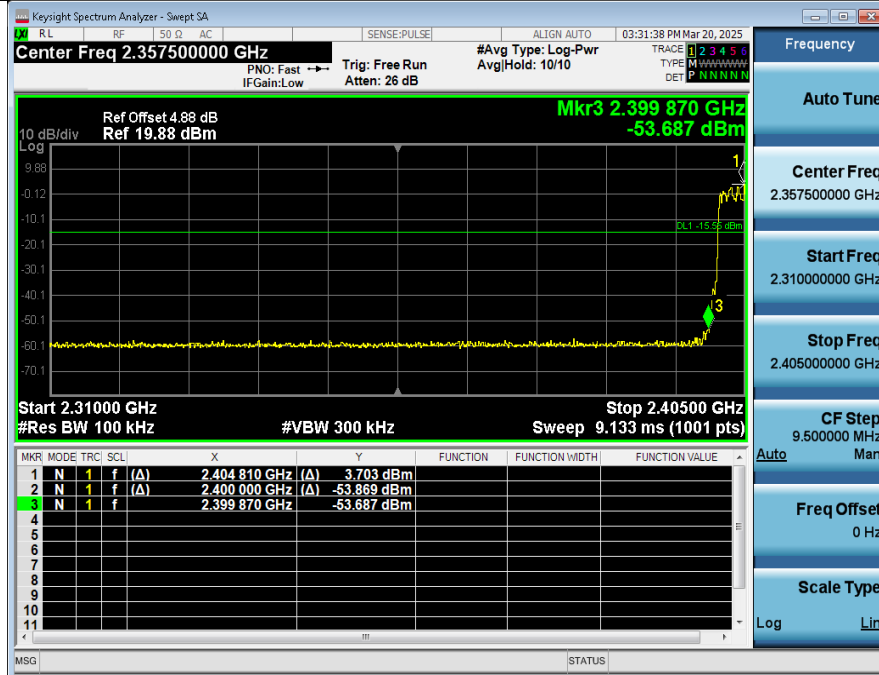


1_Reference_Level_Hopping_NVNT_ANT1_3-DH5_Hopping





2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH5_Hopping



1_Reference_Level_NVNT_ANT1_3-DH5_2480_00



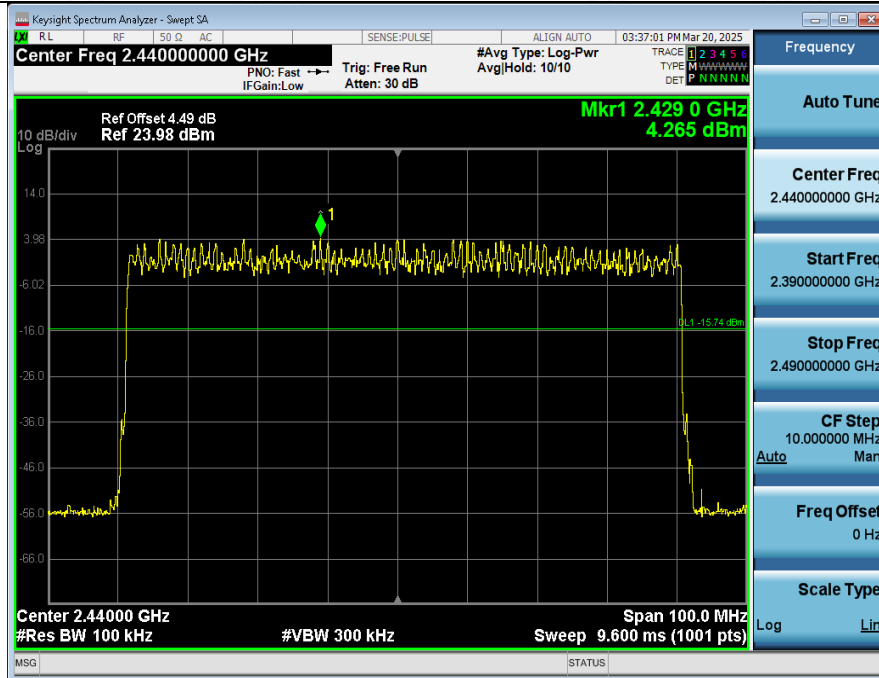


2_Bandedge_NVNT_ANT1_3-DH5_2480_00



1_Reference_Level_Hopping_NVNT_ANT1_3-DH5_Hopping





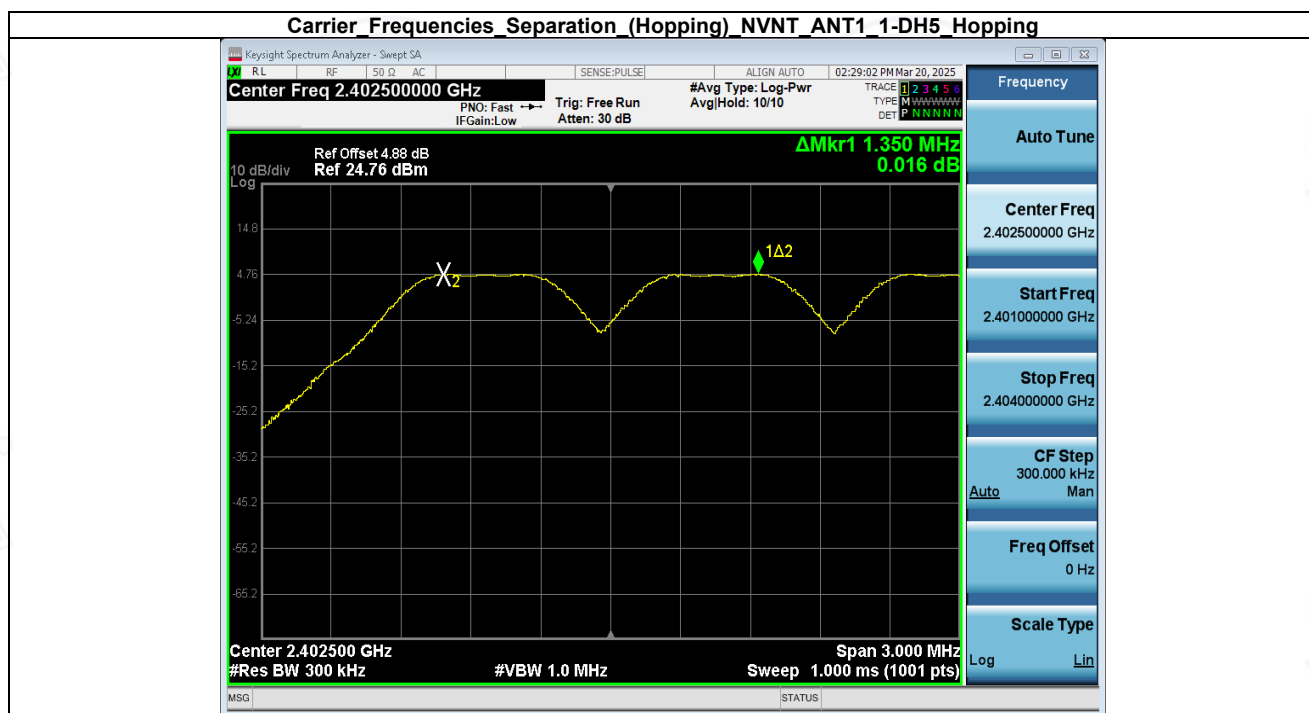
2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH5_Hopping



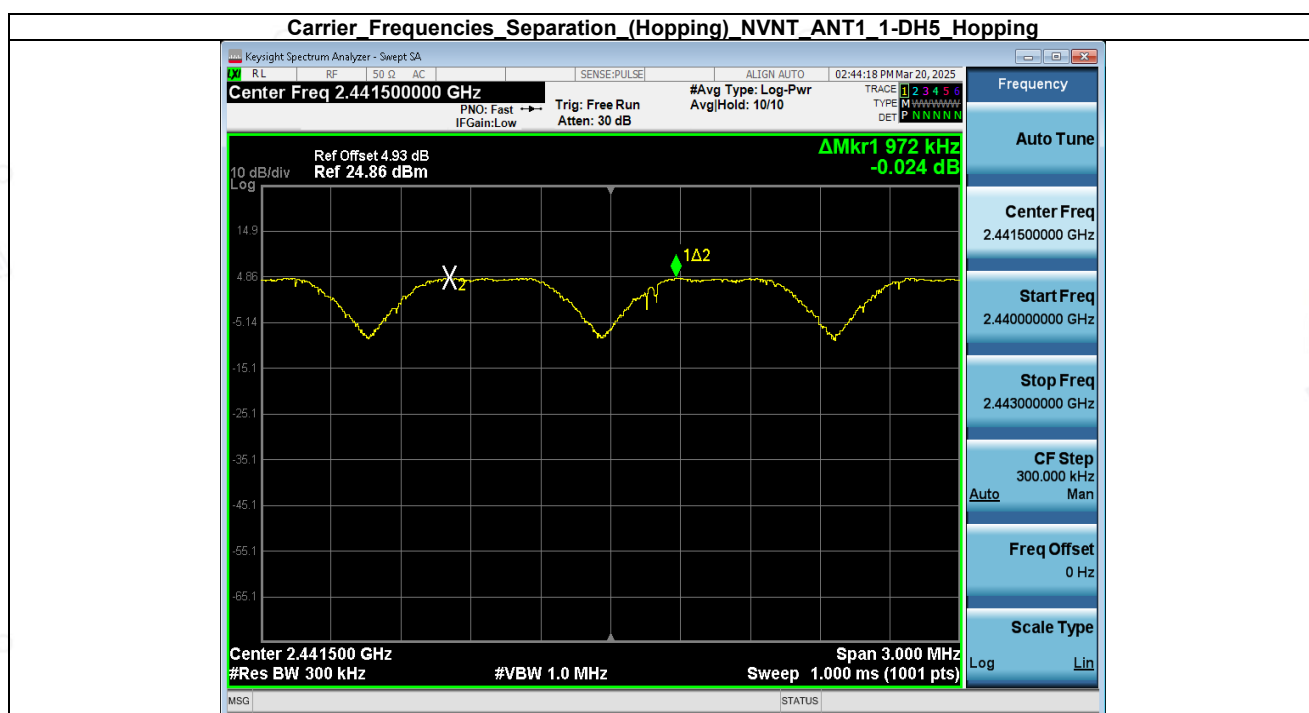
7. Carrier Frequencies Separation (Hopping)

Condition	Antenna	Modulation	Frequency(MHz)	Hopping NO.0 (MHz)	Hopping NO.1 (MHz)	Carrier Frequencies Separation(MHz)	Limit(MHz)	Result
NVNT	ANT1	1-DH5	2402.00	2401.783	2403.133	1.35	0.954	Pass
NVNT	ANT1	1-DH5	2441.00	2440.810	2441.782	0.97	0.956	Pass
NVNT	ANT1	1-DH5	2480.00	2479.131	2480.115	0.98	0.959	Pass
NVNT	ANT1	2-DH5	2402.00	2401.807	2403.127	1.32	0.849	Pass
NVNT	ANT1	2-DH5	2441.00	2440.819	2442.097	1.28	0.854	Pass
NVNT	ANT1	2-DH5	2480.00	2478.795	2479.812	1.02	0.852	Pass
NVNT	ANT1	3-DH5	2402.00	2402.119	2403.112	0.99	0.858	Pass
NVNT	ANT1	3-DH5	2441.00	2440.801	2441.764	0.96	0.861	Pass
NVNT	ANT1	3-DH5	2480.00	2478.954	2479.878	0.92	0.857	Pass

Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH5_Hopping

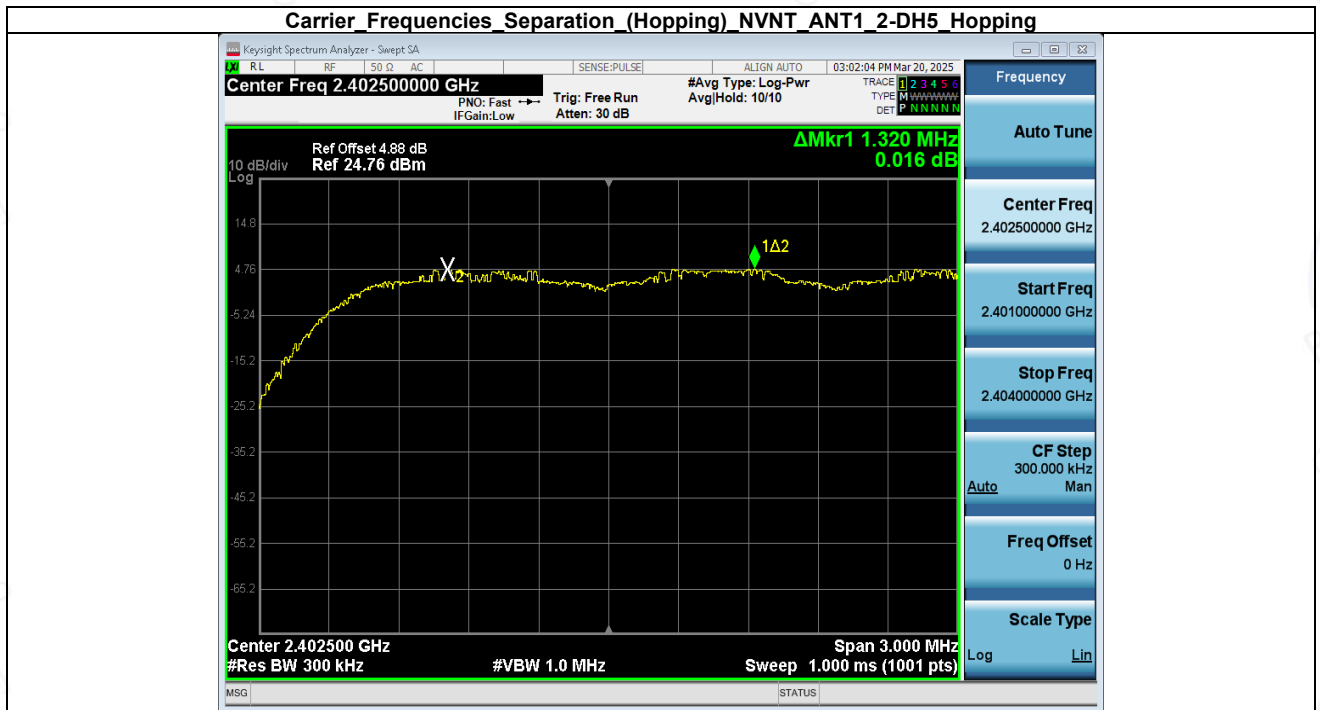


Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH5_Hopping



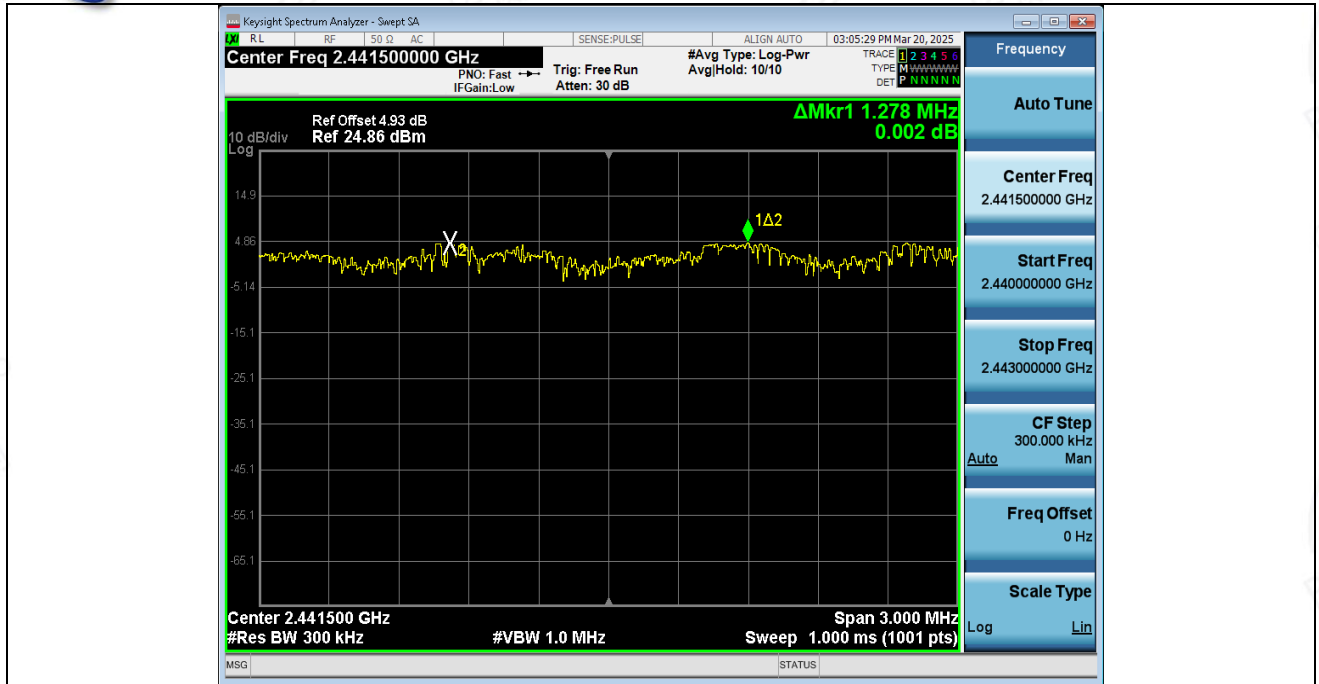
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH5_Hopping





Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH5_Hopping



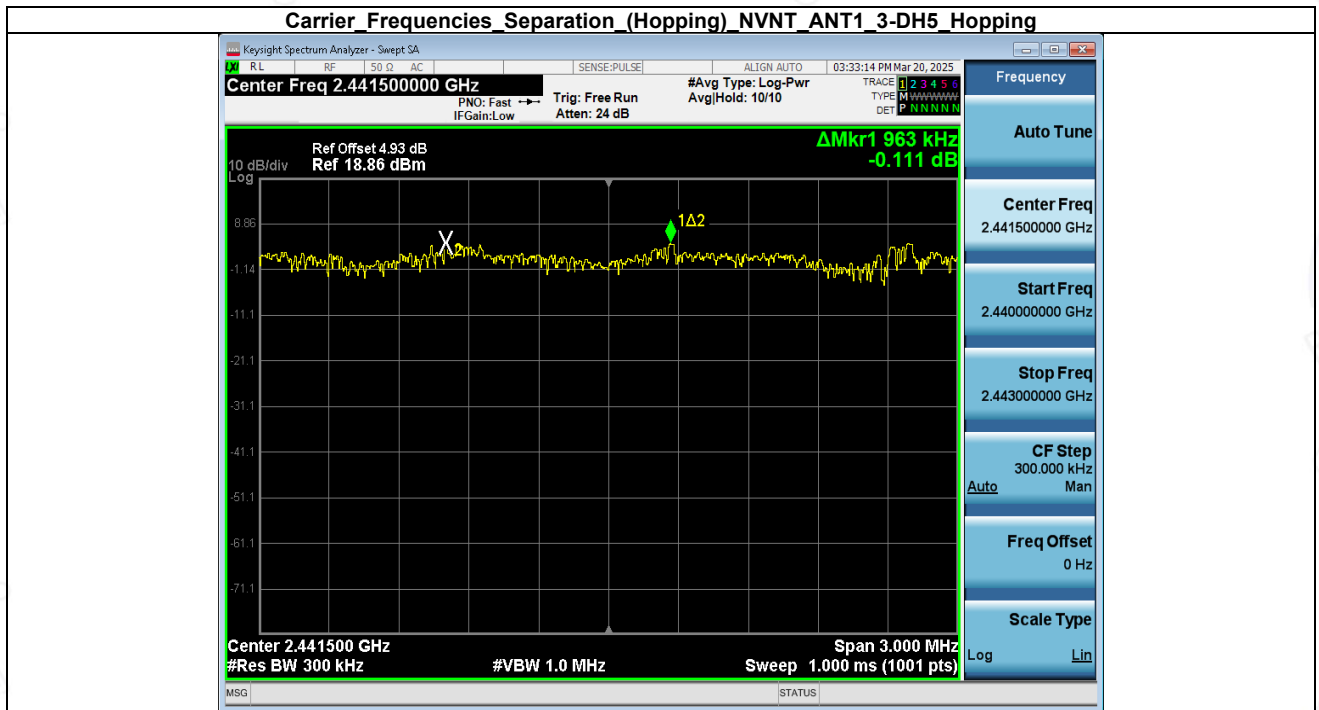


Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH5_Hopping



Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH5_Hopping





Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH5_Hopping

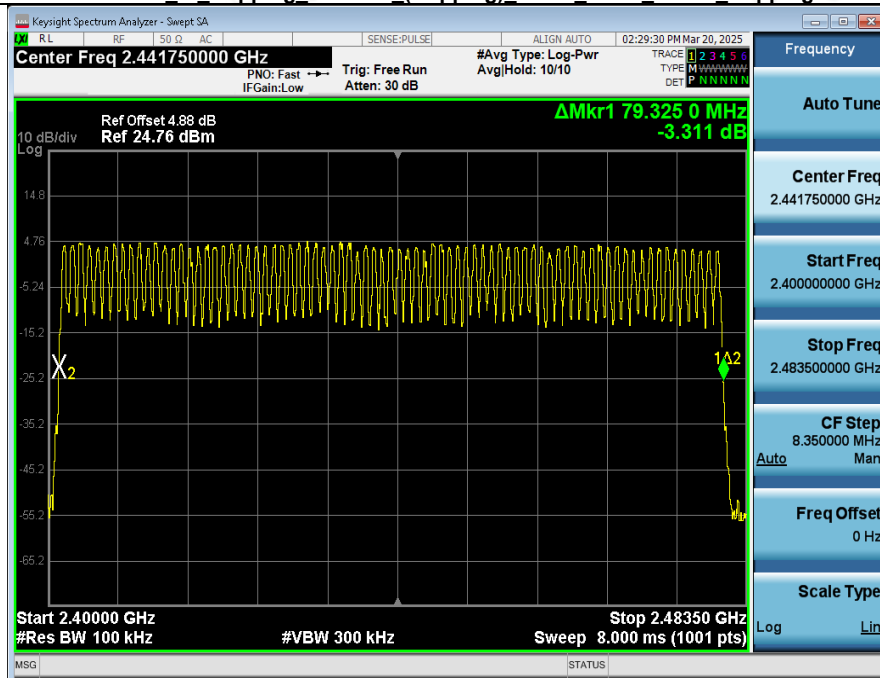




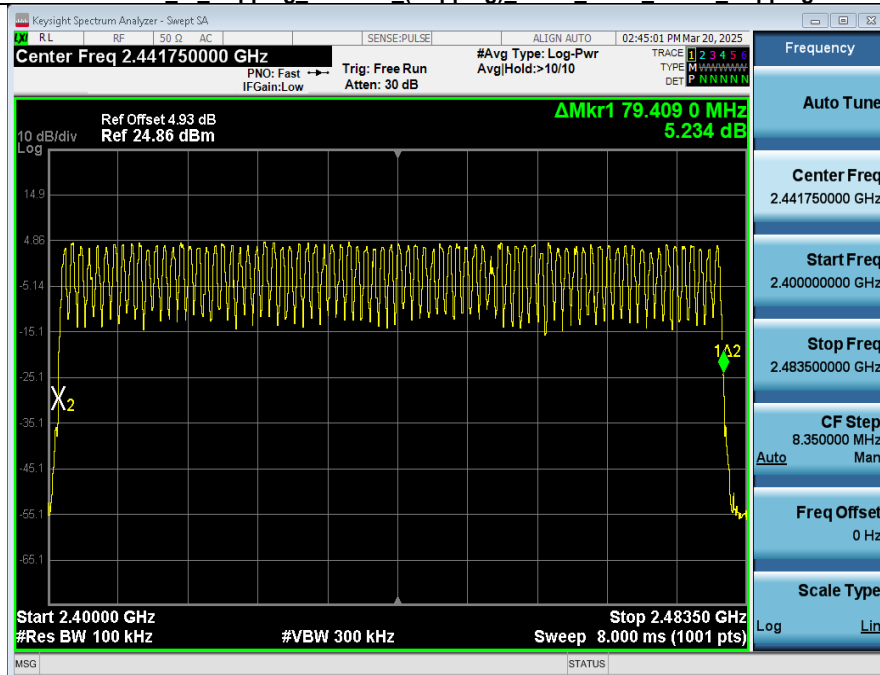
8. Number of Hopping Channel (Hopping)

Condition	Antenna	Modulation	Hopping Num	Limit	Result
NVNT	ANT1	1-DH5	79	15	Pass
NVNT	ANT1	1-DH5	79	15	Pass
NVNT	ANT1	1-DH5	79	15	Pass
NVNT	ANT1	2-DH5	79	15	Pass
NVNT	ANT1	2-DH5	79	15	Pass
NVNT	ANT1	2-DH5	79	15	Pass
NVNT	ANT1	3-DH5	79	15	Pass
NVNT	ANT1	3-DH5	79	15	Pass
NVNT	ANT1	3-DH5	79	15	Pass

Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_1-DH5_Hopping

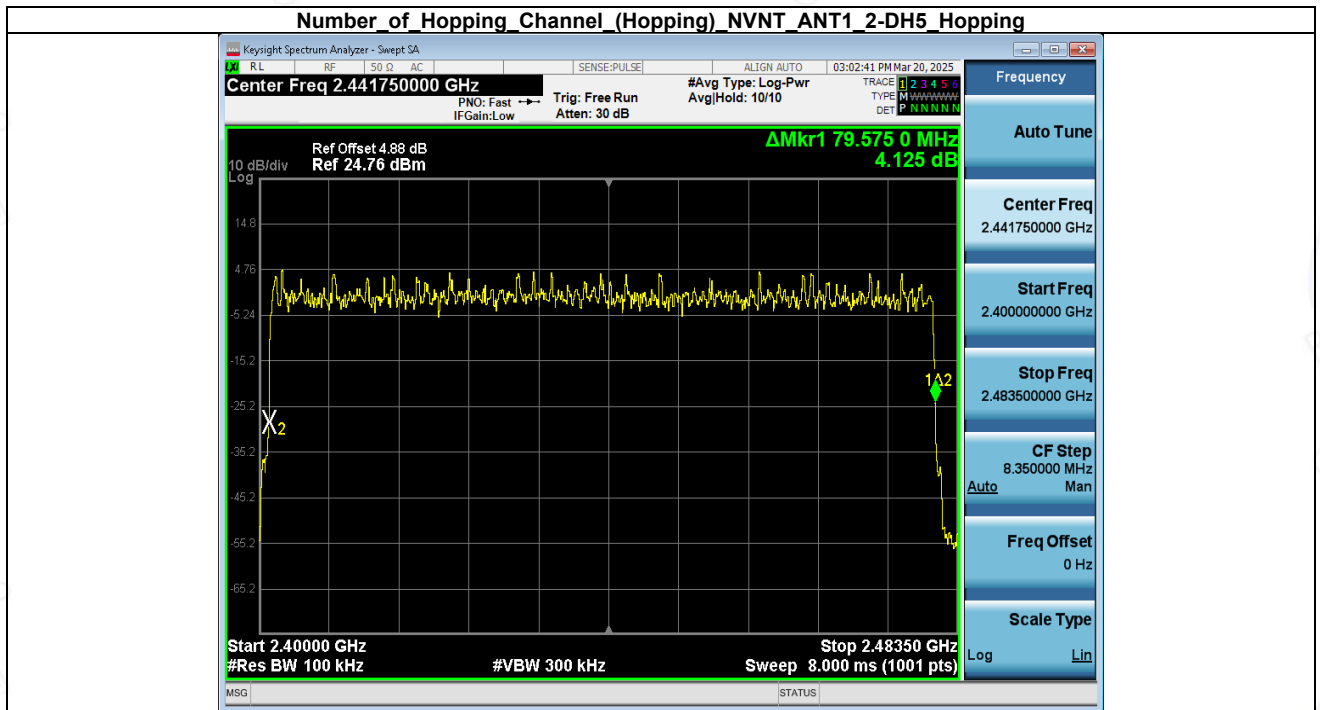
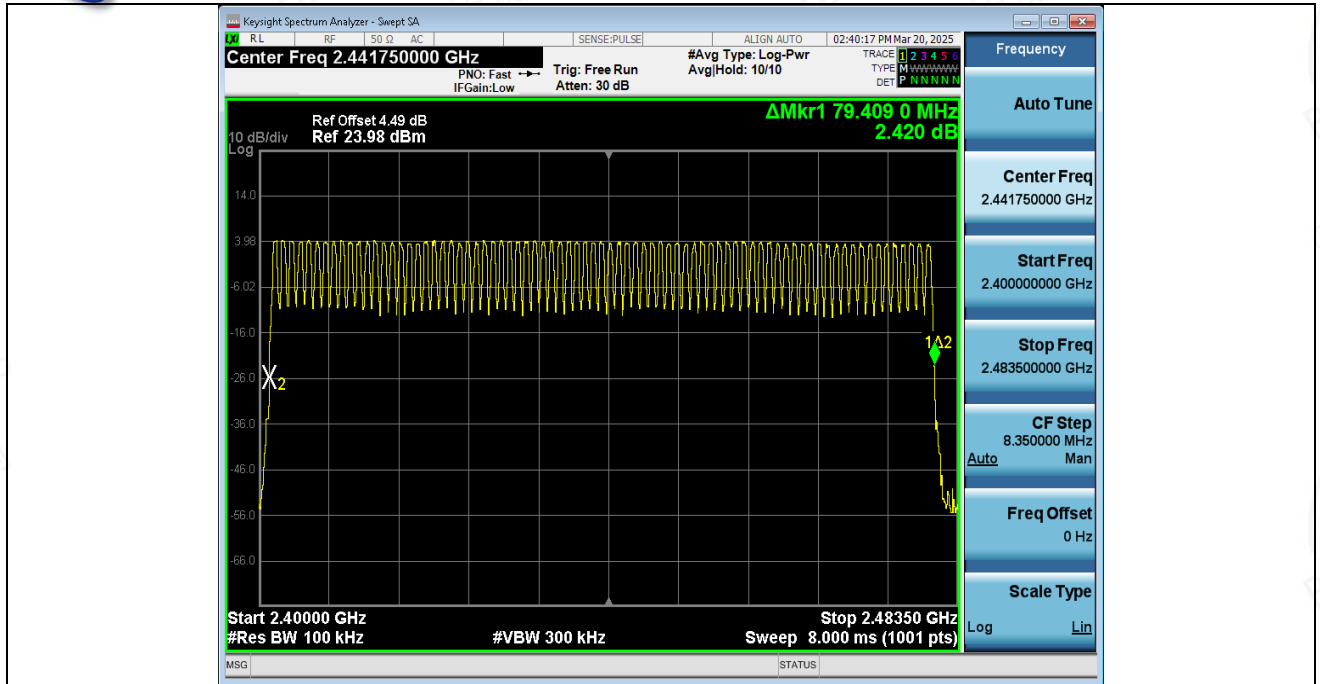


Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_1-DH5_Hopping



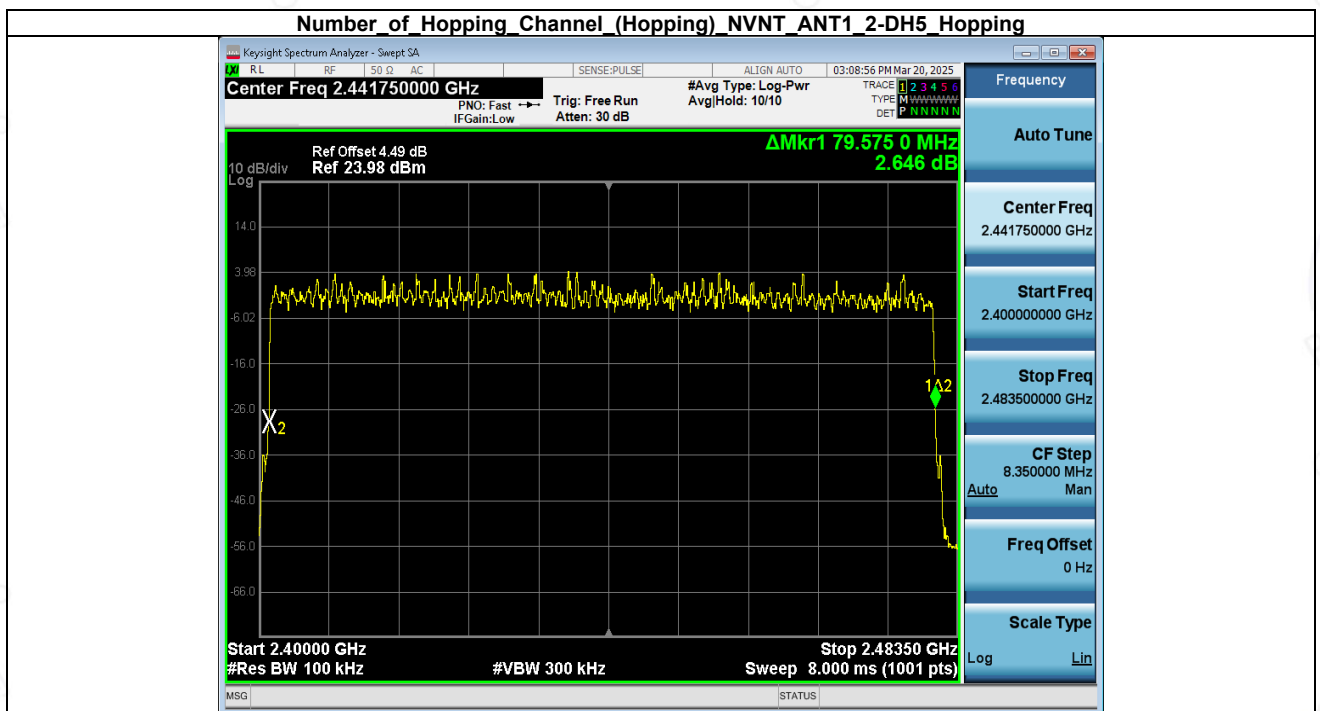
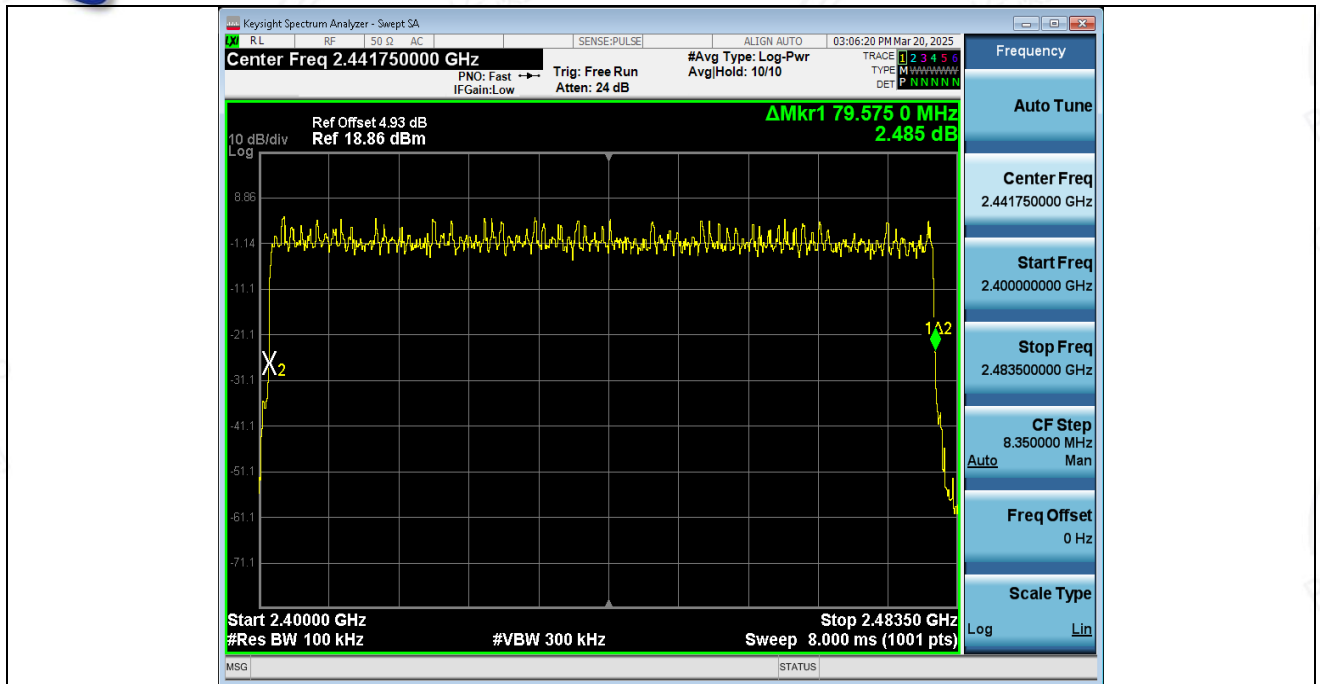
Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_1-DH5_Hopping





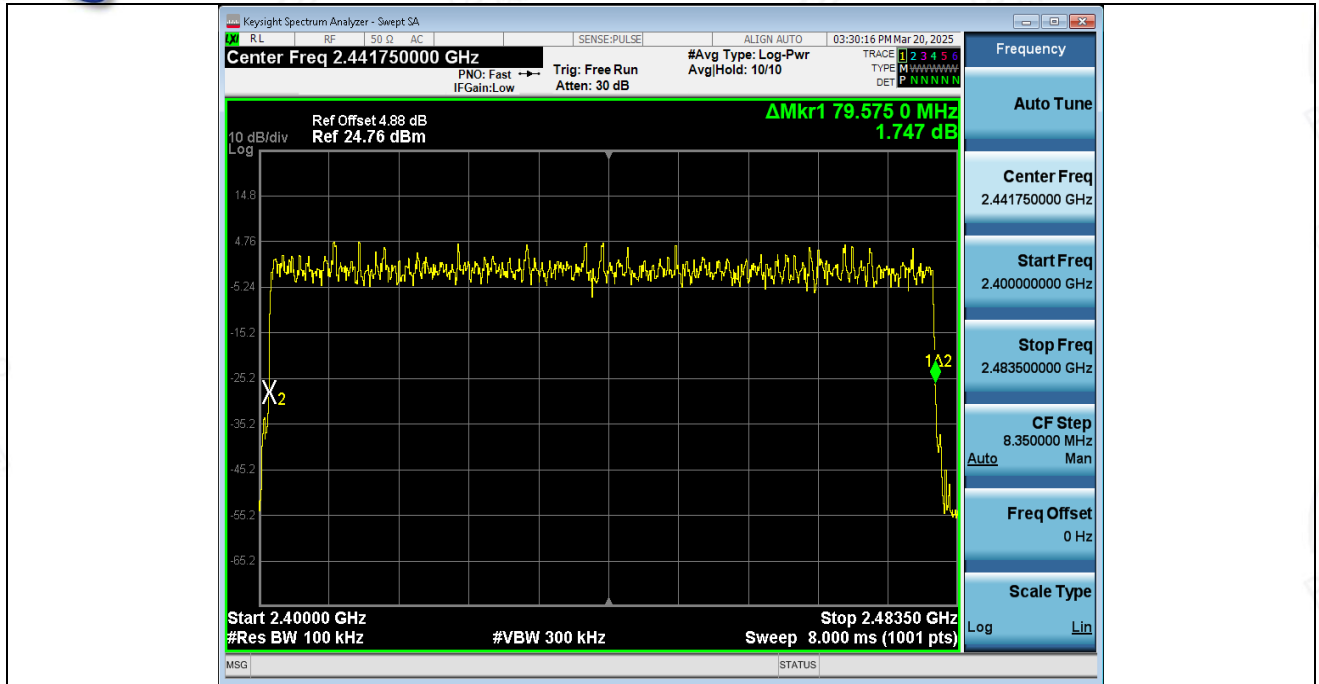
Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_2-DH5_Hopping



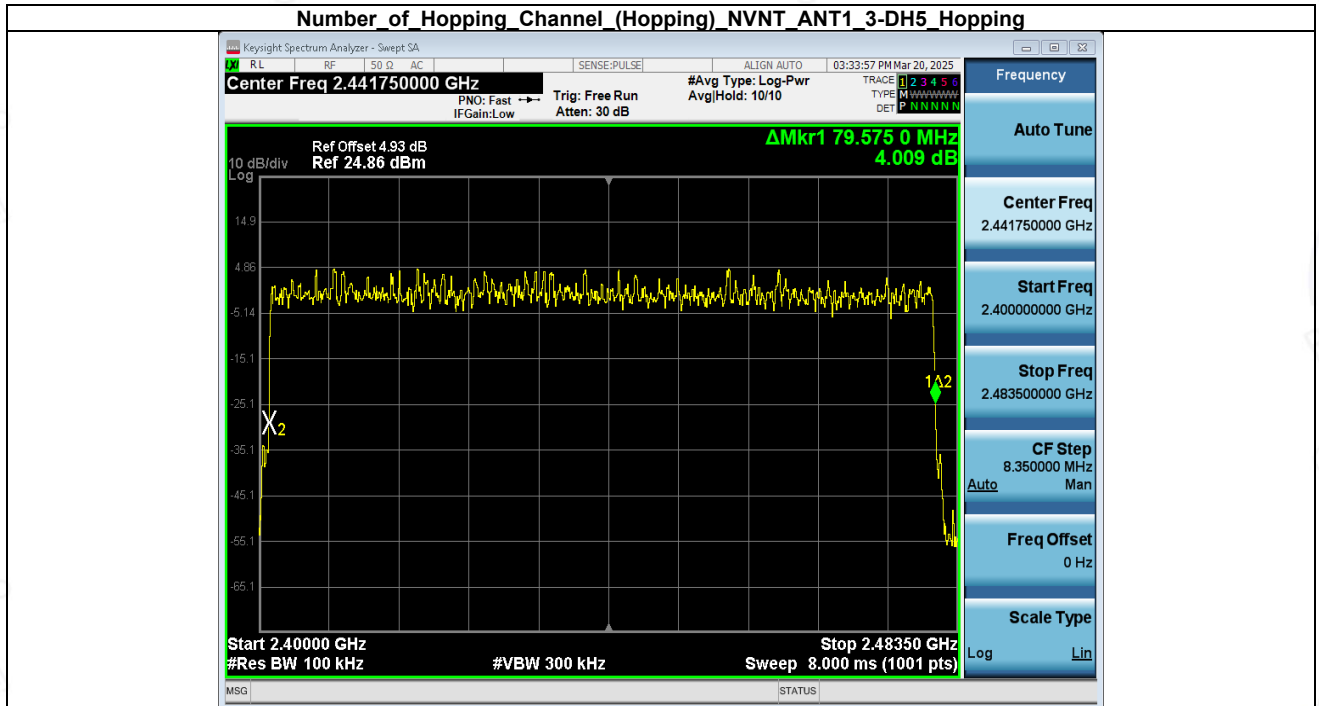


Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_3-DH5_Hopping



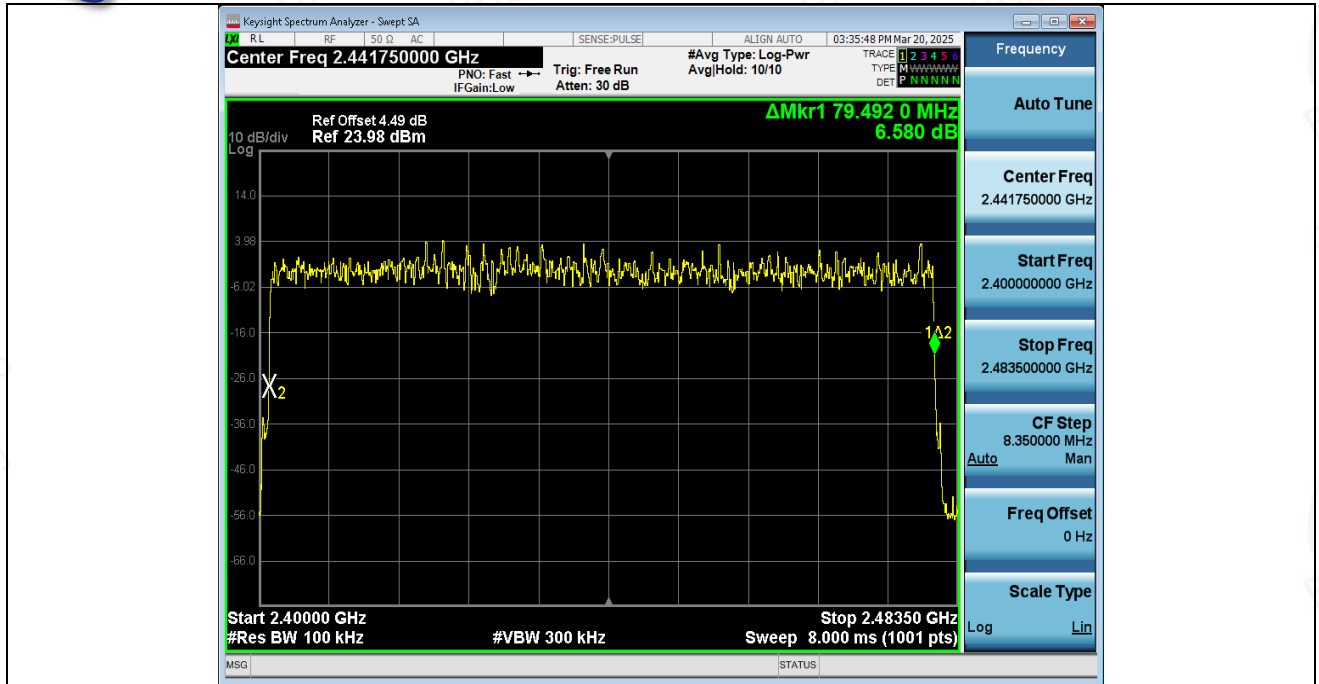


Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_3-DH5_Hopping

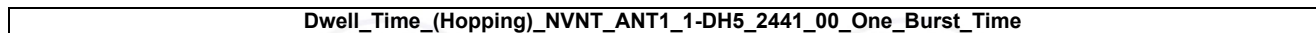
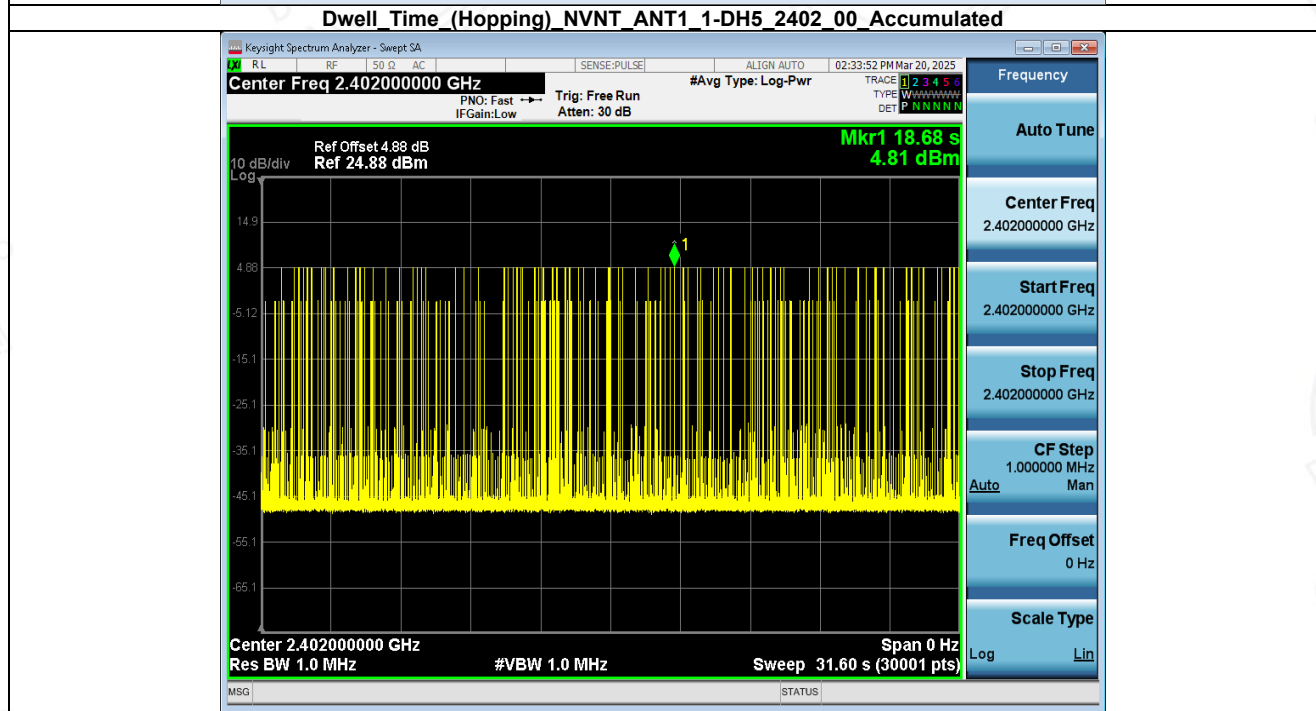


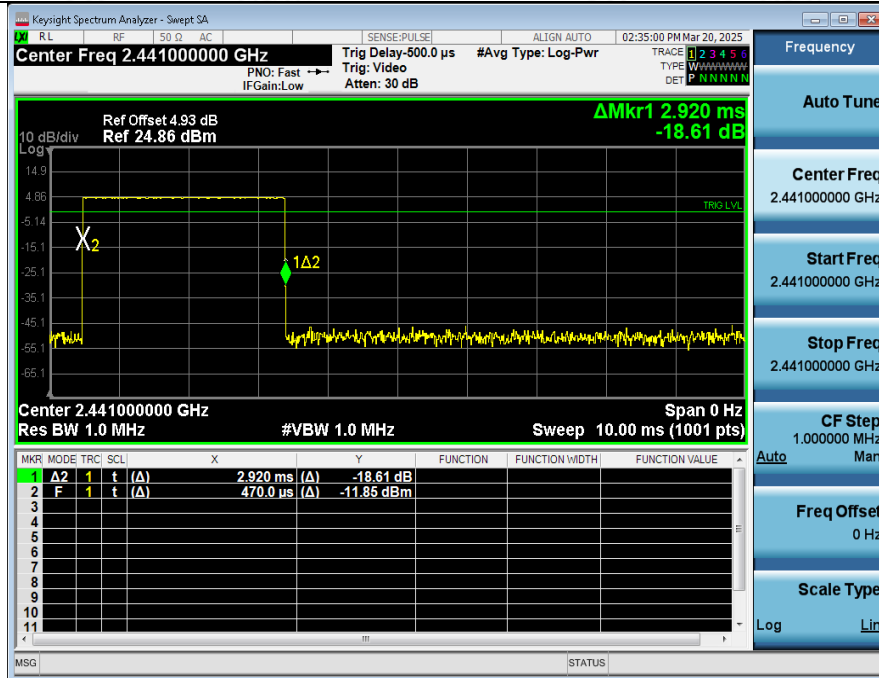
Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_3-DH5_Hopping



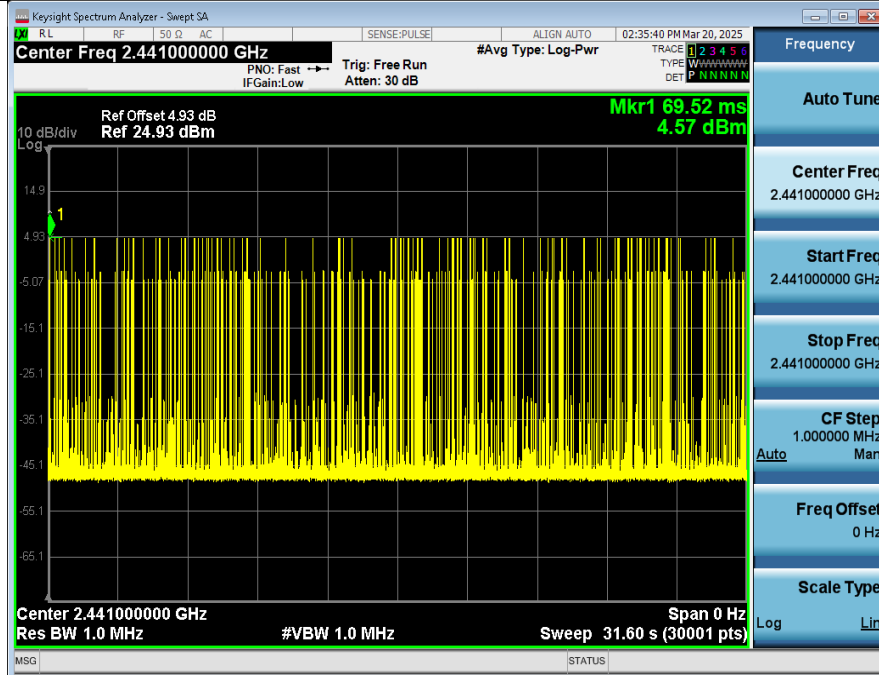


Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH5	2.920	103.00	300.760	0.40	Pass
NVNT	ANT1	1-DH5	2.920	106.00	309.520	0.40	Pass
NVNT	ANT1	1-DH5	2.920	110.00	321.200	0.40	Pass
NVNT	ANT1	2-DH5	2.920	102.00	297.840	0.40	Pass
NVNT	ANT1	2-DH5	2.920	101.00	294.920	0.40	Pass
NVNT	ANT1	2-DH5	2.930	113.00	331.090	0.40	Pass
NVNT	ANT1	3-DH5	2.930	102.00	298.860	0.40	Pass
NVNT	ANT1	3-DH5	2.920	109.00	318.280	0.40	Pass
NVNT	ANT1	3-DH5	2.930	99.00	290.070	0.40	Pass



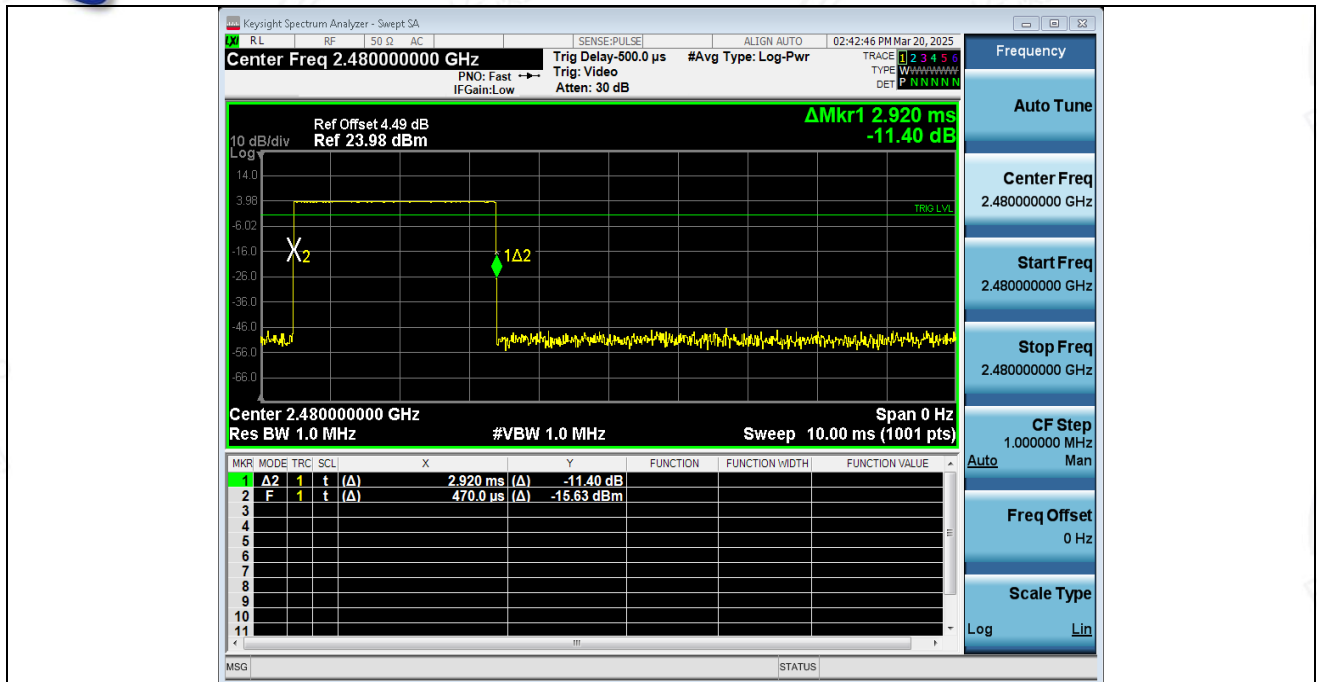


Dwell Time (Hopping) NVNT_ANT1_1-DH5_2441_00_Accumulated

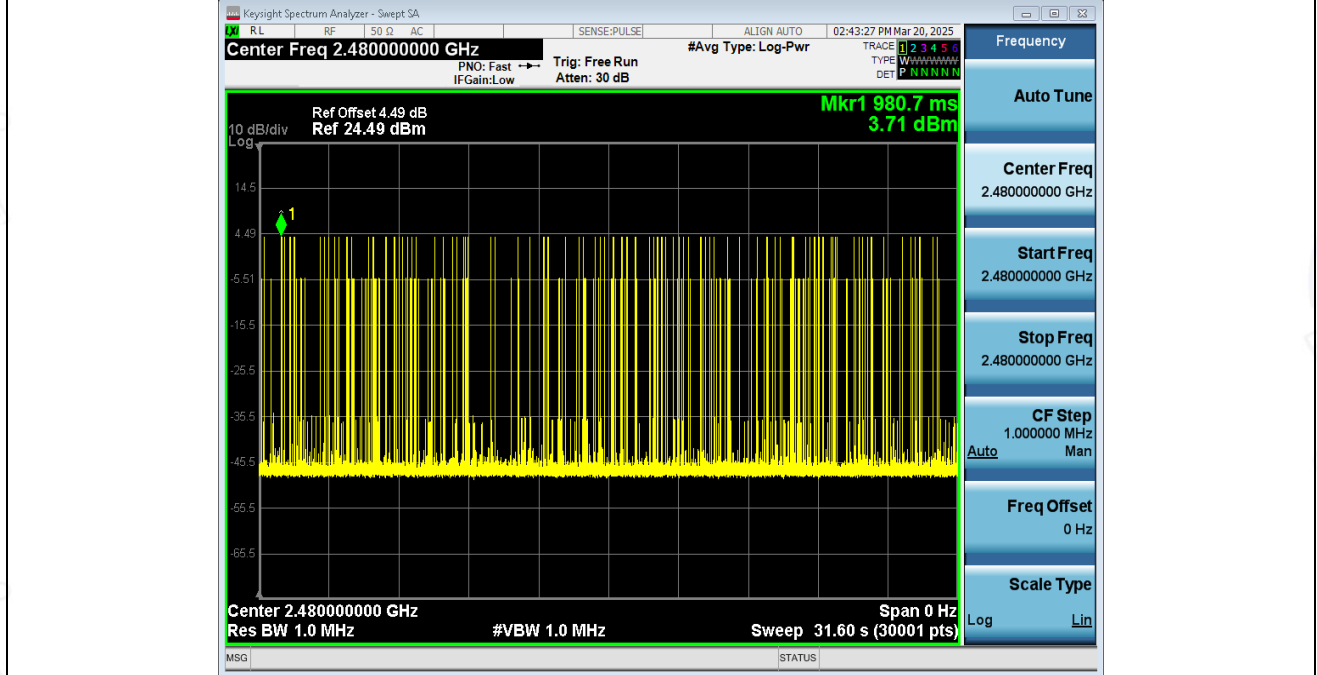


Dwell Time (Hopping) NVNT_ANT1_1-DH5_2480_00_One_Burst_Time



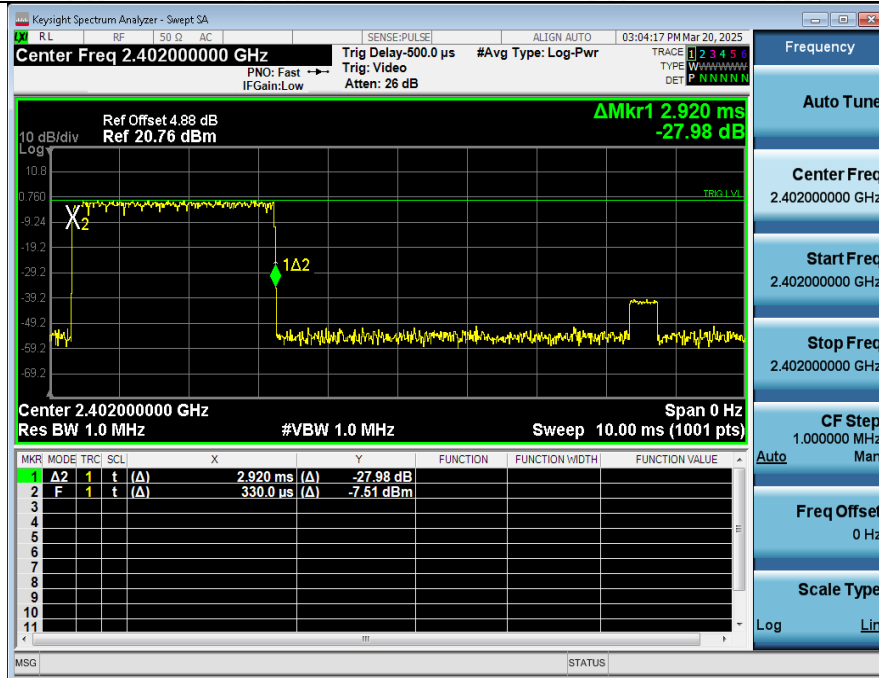


Dwell Time (Hopping) NVNT_ANT1_1-DH5_2480_00_Accumulated

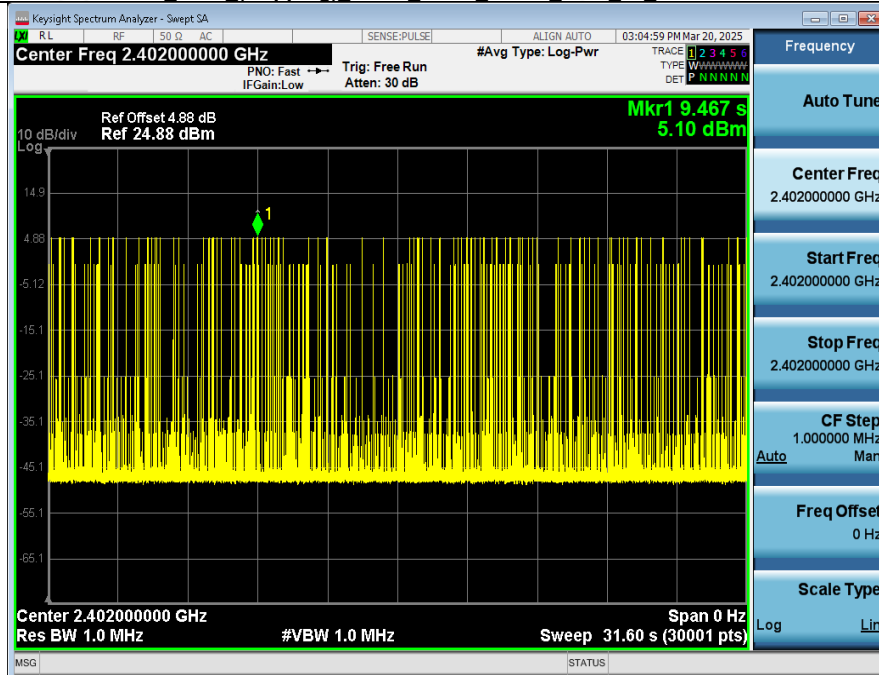


Dwell Time (Hopping) NVNT_ANT1_2-DH5_2402_00_One_Burst_Time



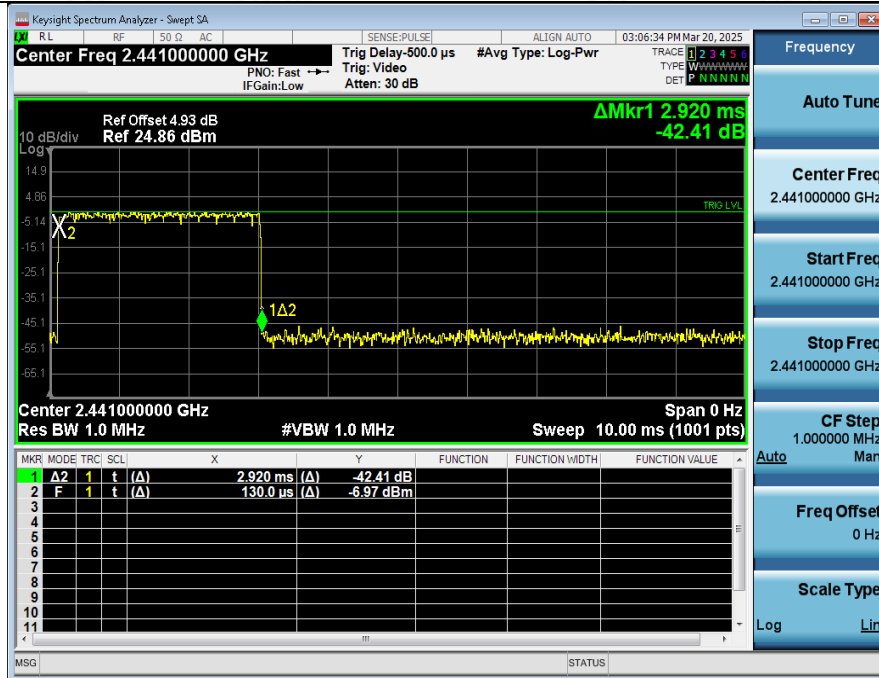


Dwell Time (Hopping) NVNT_ANT1_2-DH5_2402_00_Accumulated

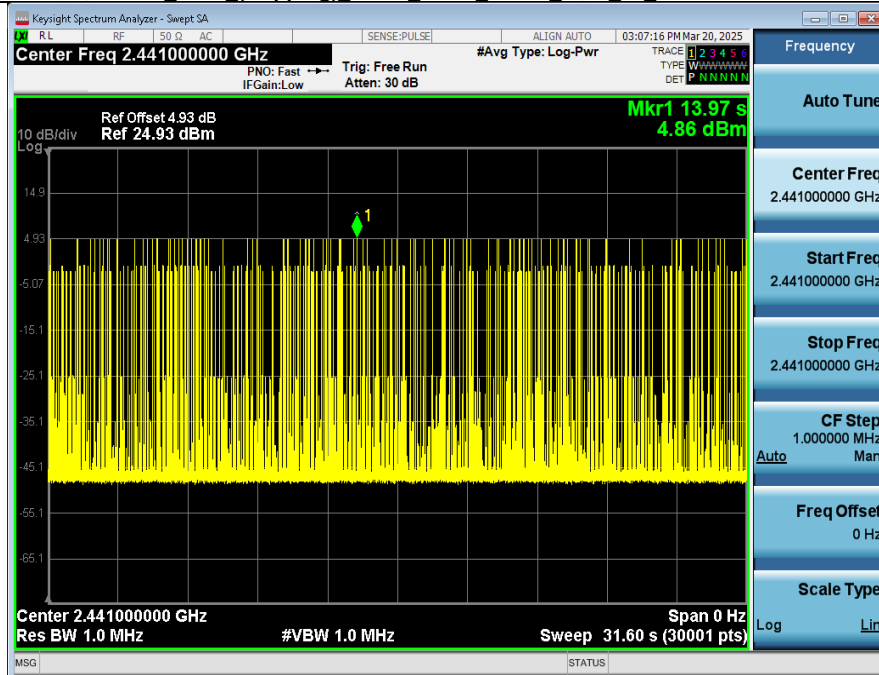


Dwell Time (Hopping) NVNT_ANT1_2-DH5_2441_00_One_Burst_Time



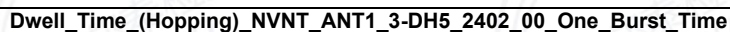


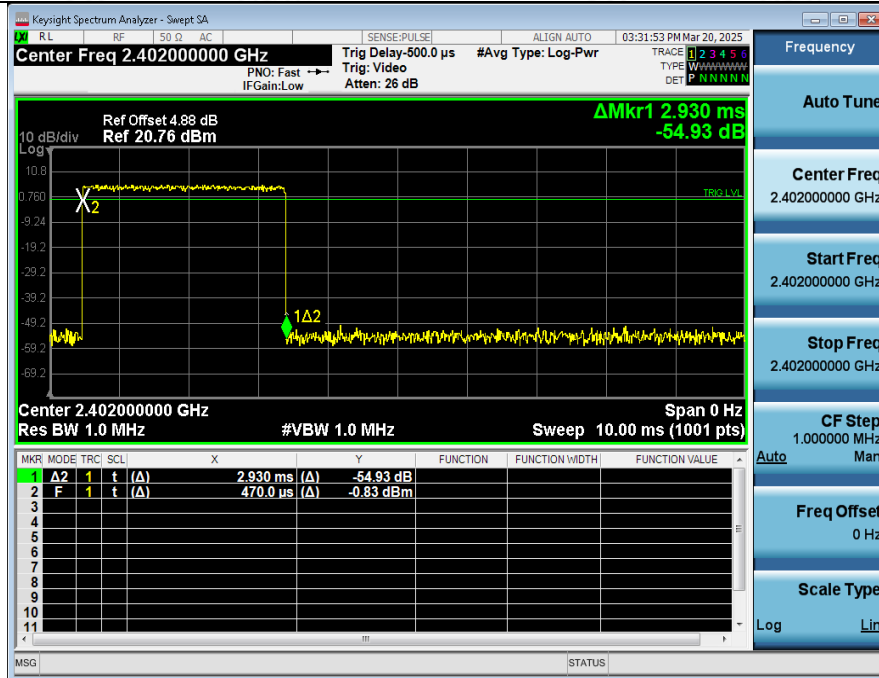
Dwell Time (Hopping) NVNT_ANT1_2-DH5_2441_00_Accumulated



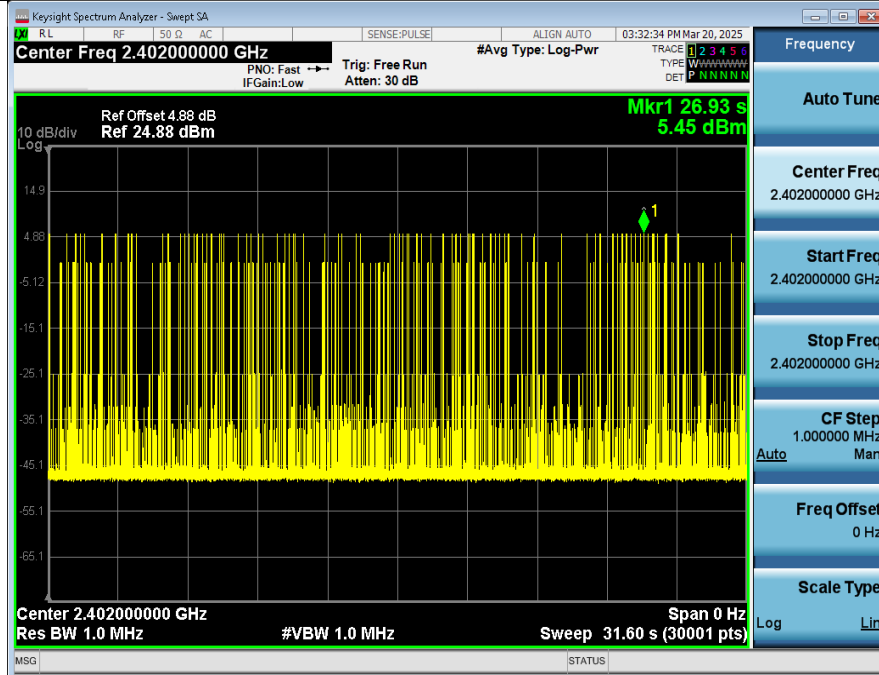
Dwell Time (Hopping) NVNT_ANT1_2-DH5_2480_00_One_Burst_Time





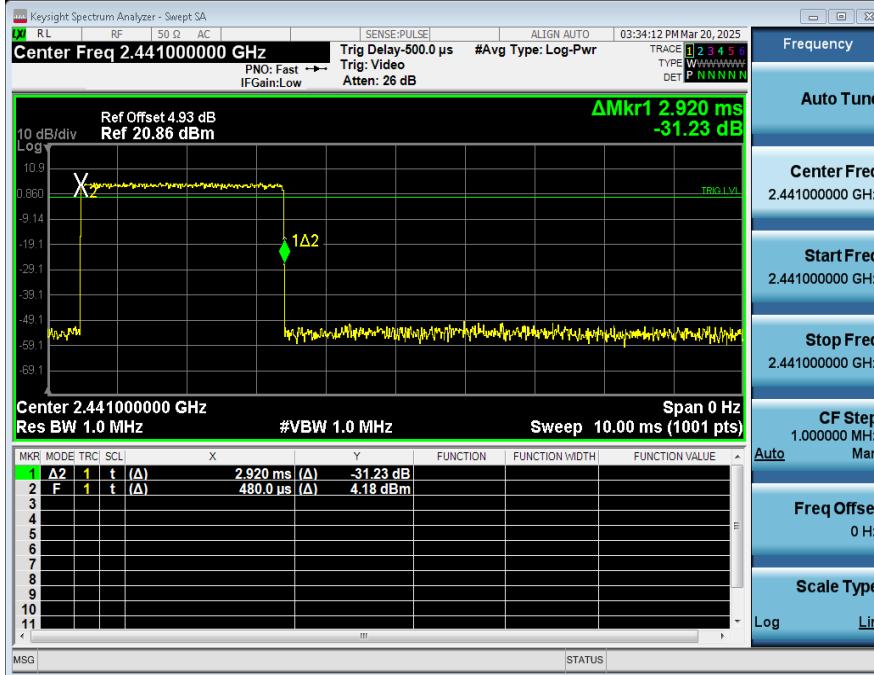


Dwell Time (Hopping) NVNT_ANT1_3-DH5_2402_00_Accumulated

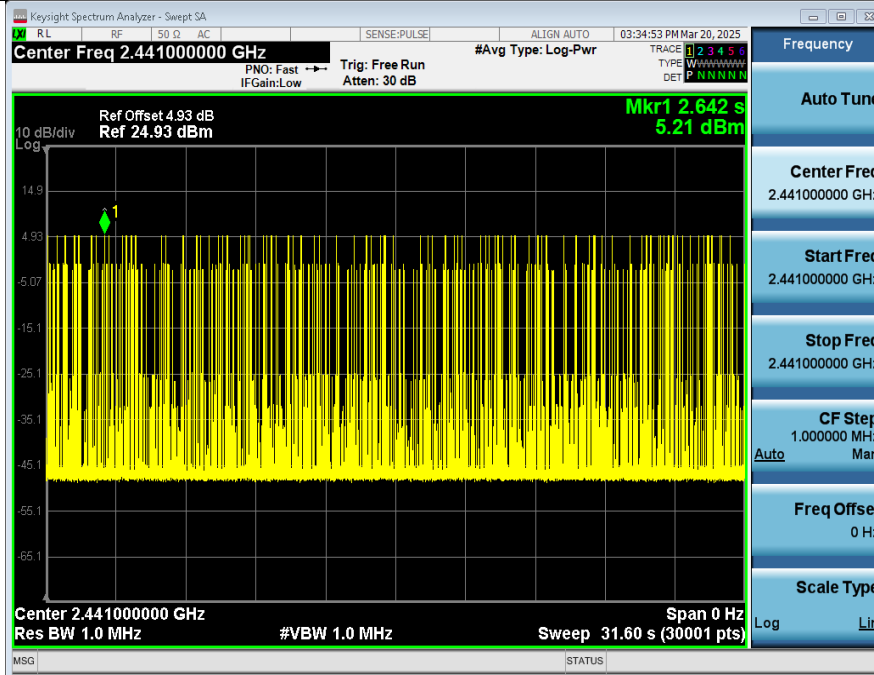


Dwell Time (Hopping) NVNT_ANT1_3-DH5_2441_00_One_Burst_Time



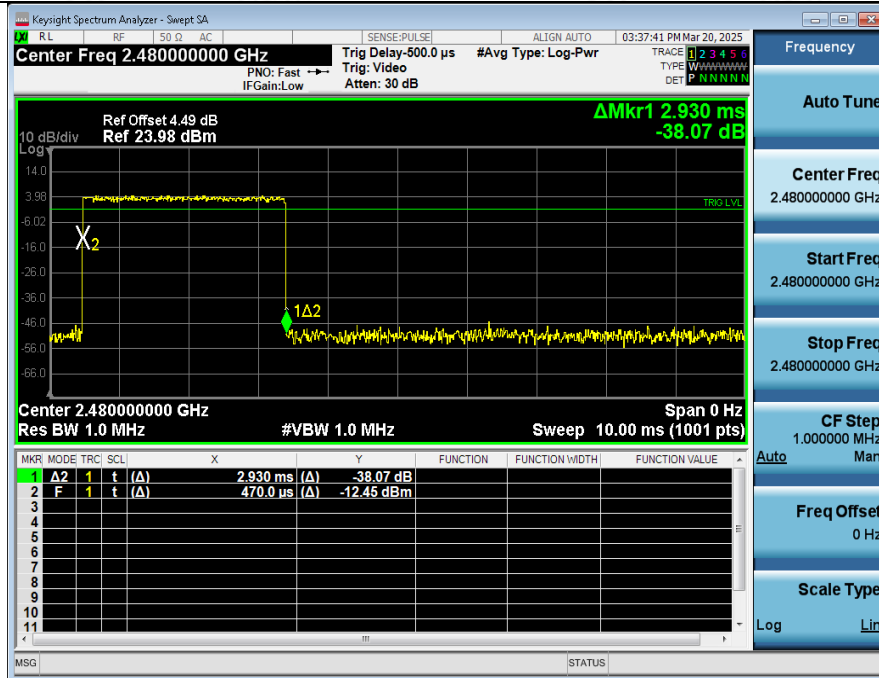


Dwell Time (Hopping) NVNT_ANT1_3-DH5_2441_00_Accumulated



Dwell Time (Hopping) NVNT_ANT1_3-DH5_2480_00_One_Burst_Time





Dwell Time (Hopping) NVNT_ANT1_3-DH5_2480_00_Accumulated

