

Appendix

Test Data

for BTEK241108034A01E02

Start date	2025/1/8	Finish date	2025/1/8
Temperature	23.1℃	Humidity	36%
RF specifications	BT	Test Engineer	Zora



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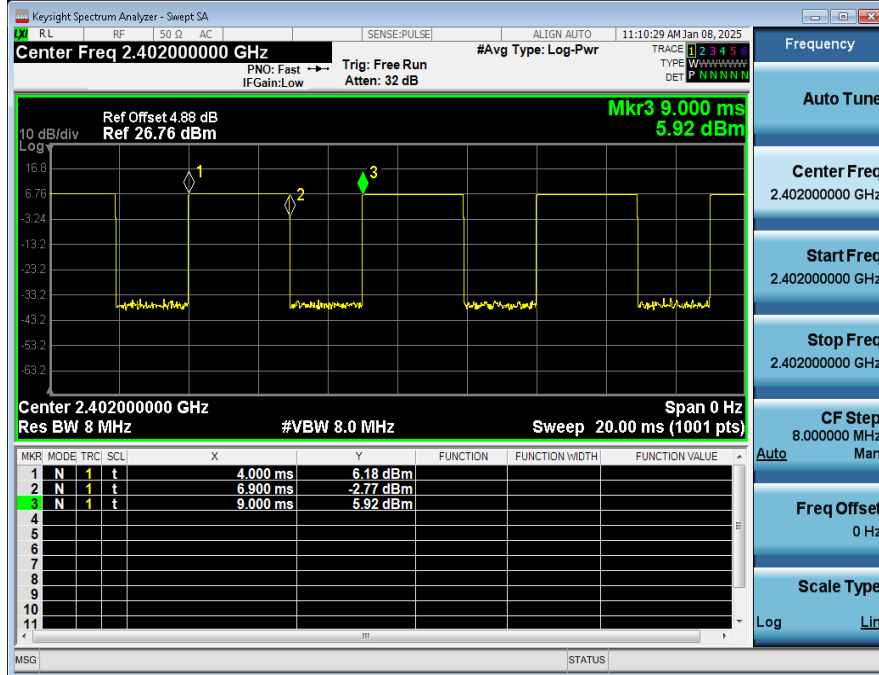
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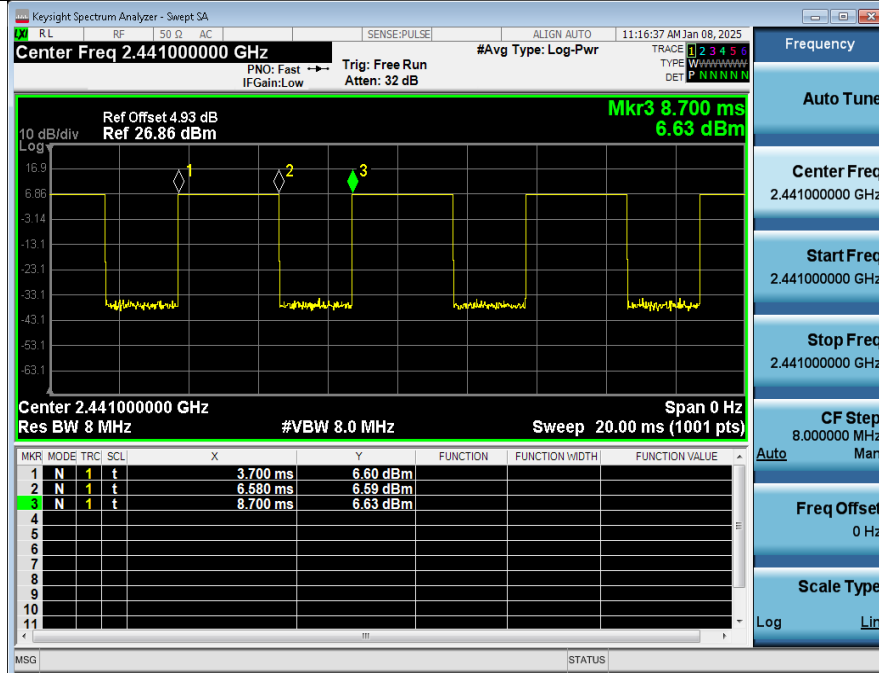
1. Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1-DH5	2402.00	58.40	2.34
NVNT	ANT1	1-DH5	2441.00	58.00	2.37
NVNT	ANT1	1-DH5	2480.00	57.60	2.40
NVNT	ANT1	2-DH5	2402.00	57.60	2.40
NVNT	ANT1	2-DH5	2441.00	57.60	2.40
NVNT	ANT1	2-DH5	2480.00	57.60	2.40
NVNT	ANT1	3-DH5	2402.00	58.40	2.34
NVNT	ANT1	3-DH5	2441.00	58.40	2.34
NVNT	ANT1	3-DH5	2480.00	58.00	2.37

Duty_Cycle_NVNT_ANT1_1-DH5_2402

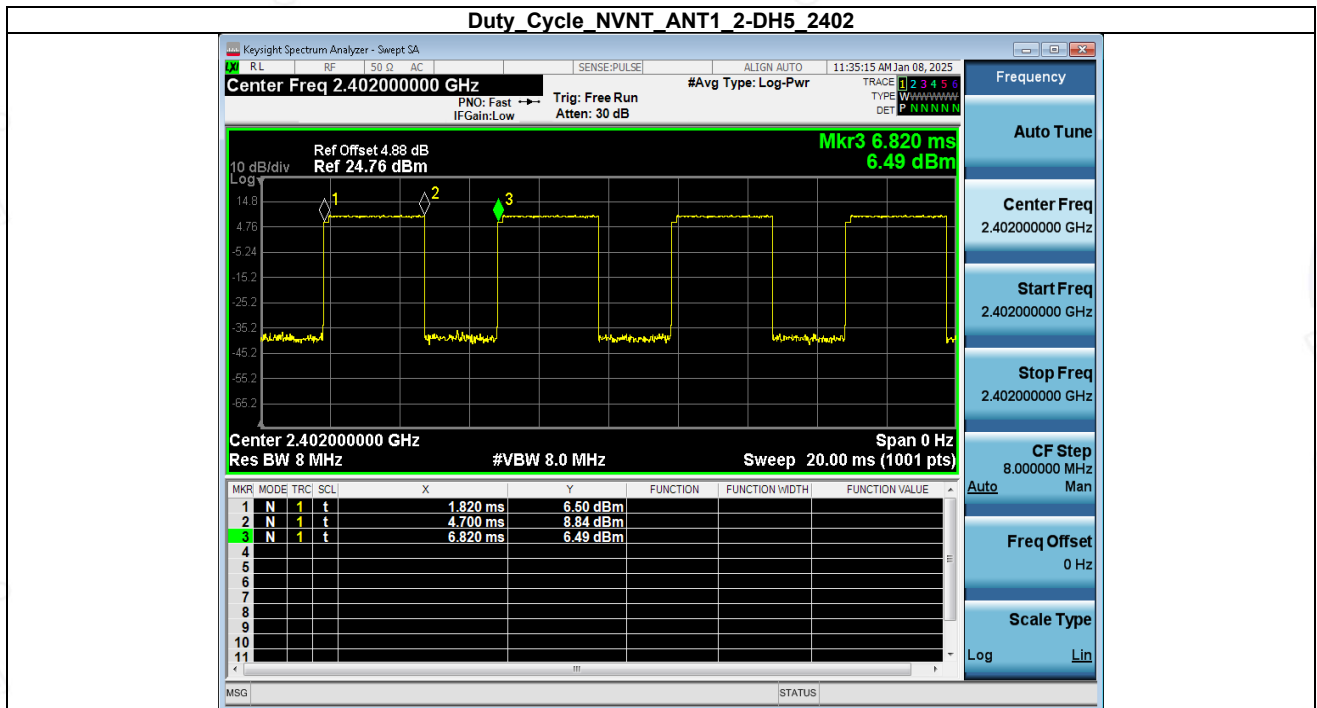
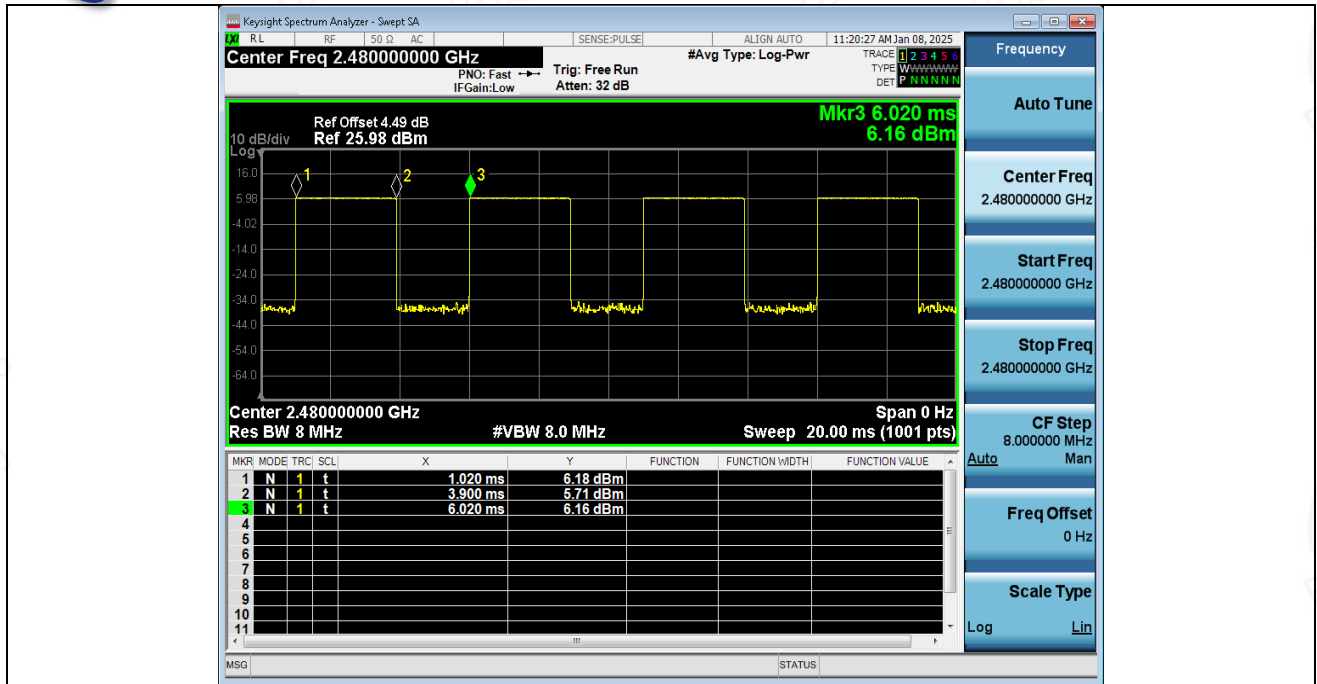


Duty_Cycle_NVNT_ANT1_1-DH5_2441



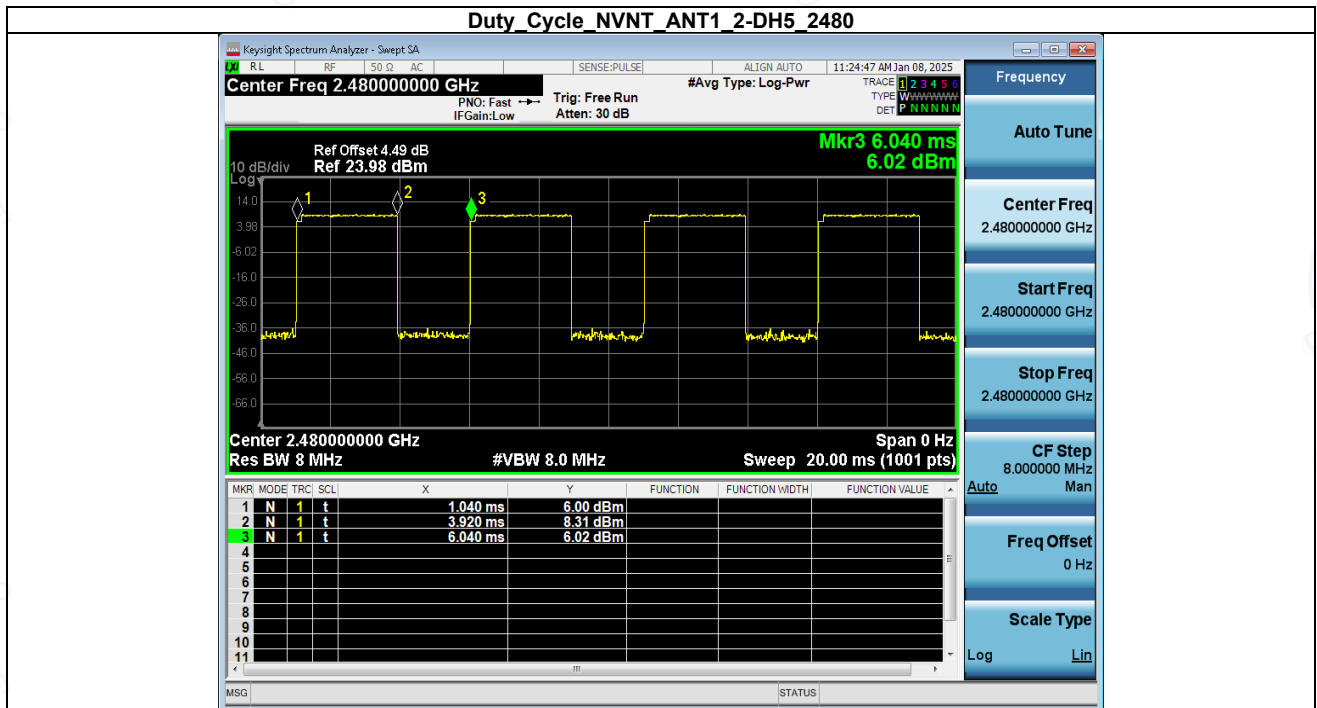
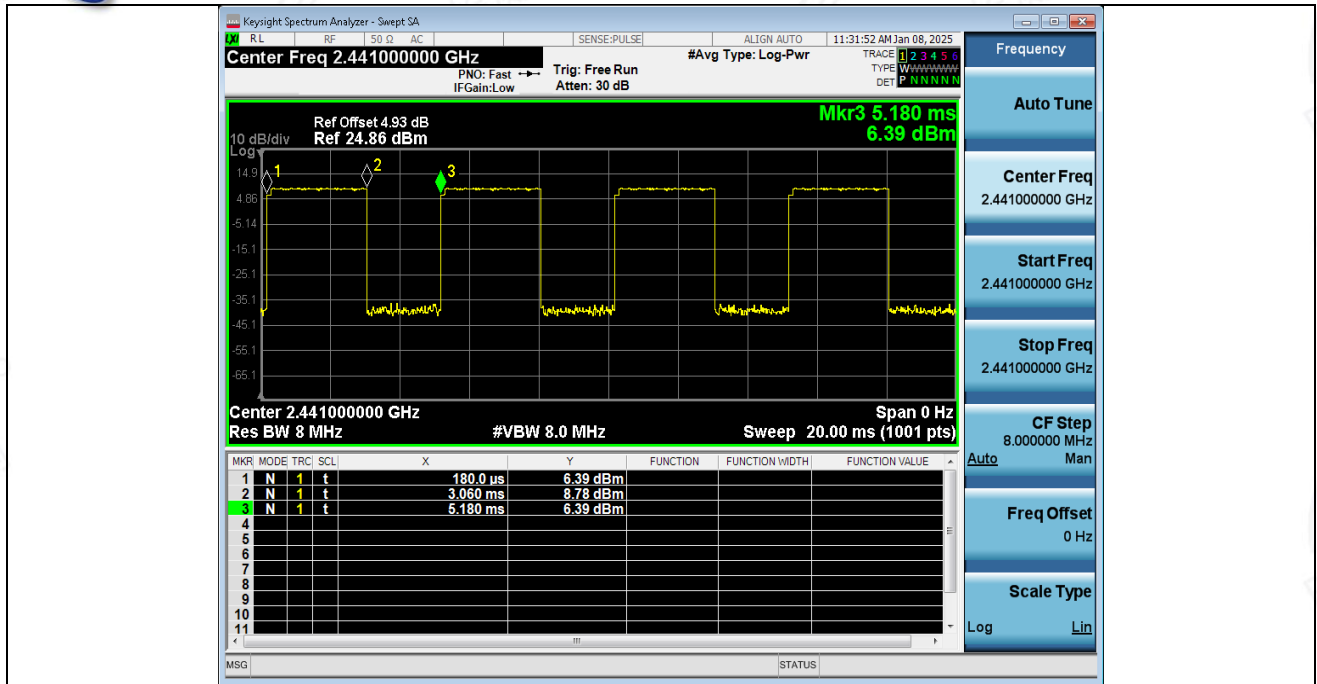
Duty_Cycle_NVNT_ANT1_1-DH5_2480

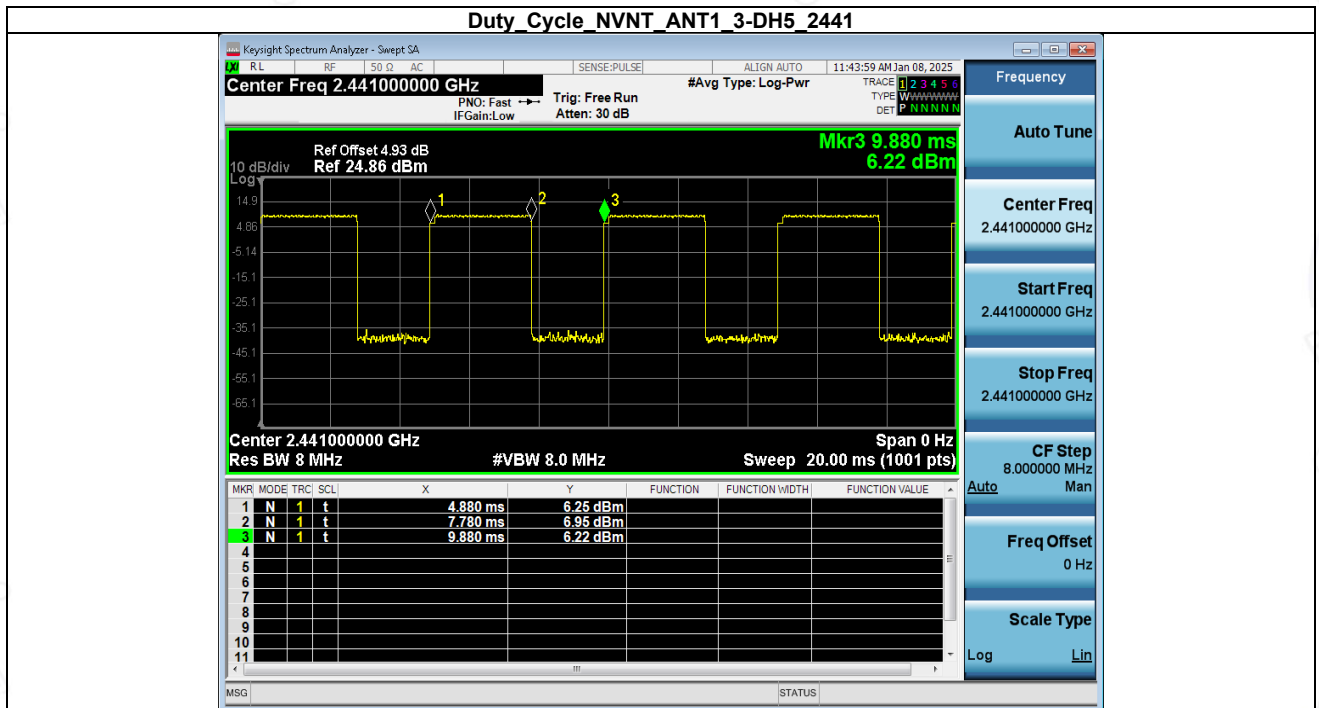
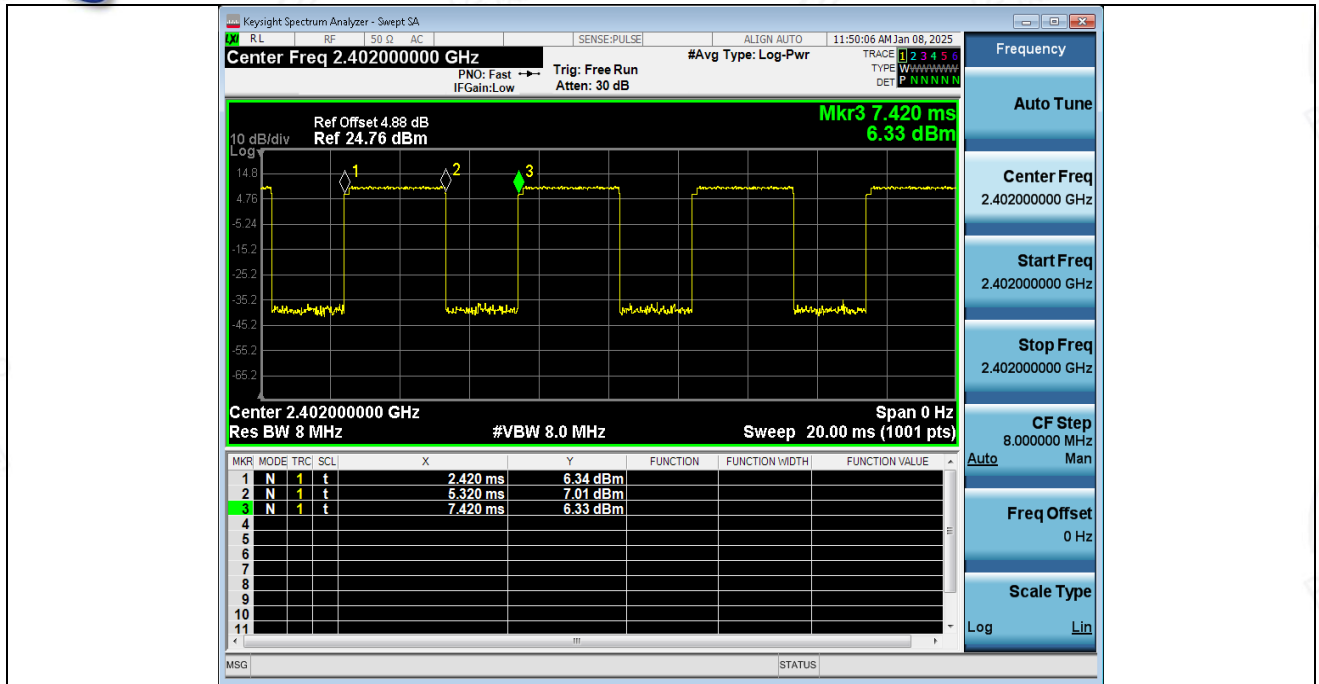




Duty Cycle_NVNT_ANT1_2-DH5_2441

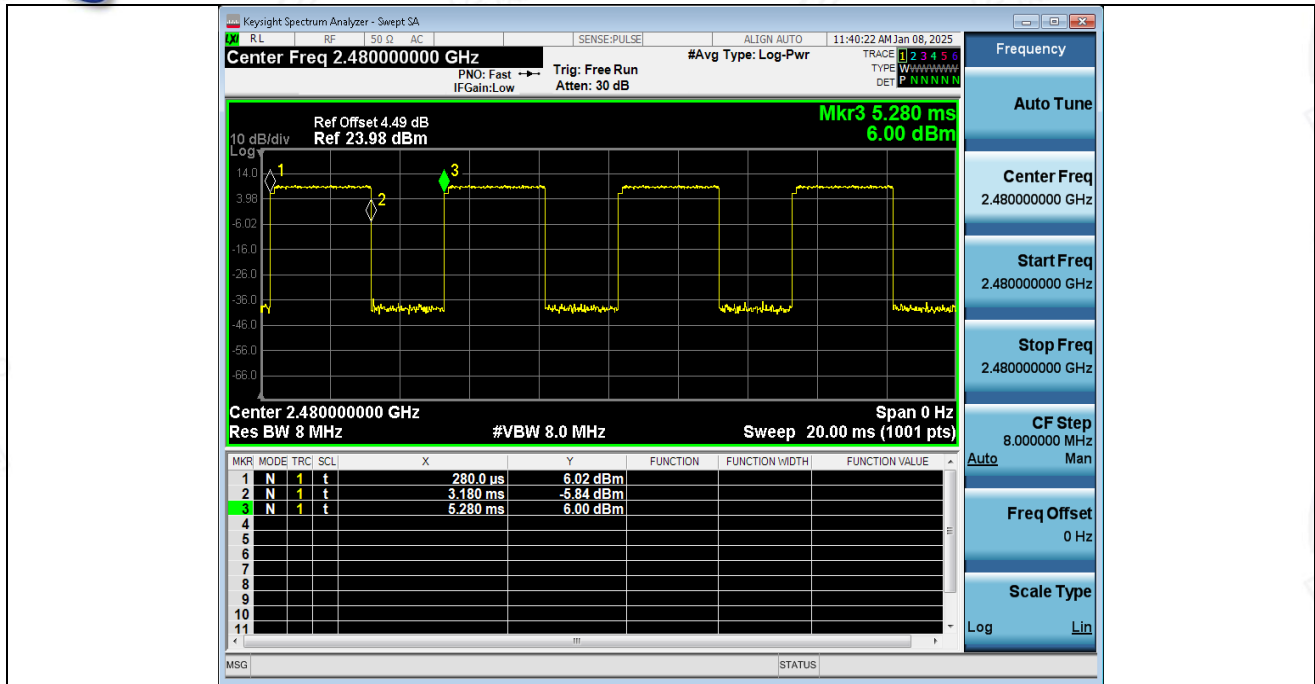






Duty Cycle_NVNT_ANT1_3-DH5_2480

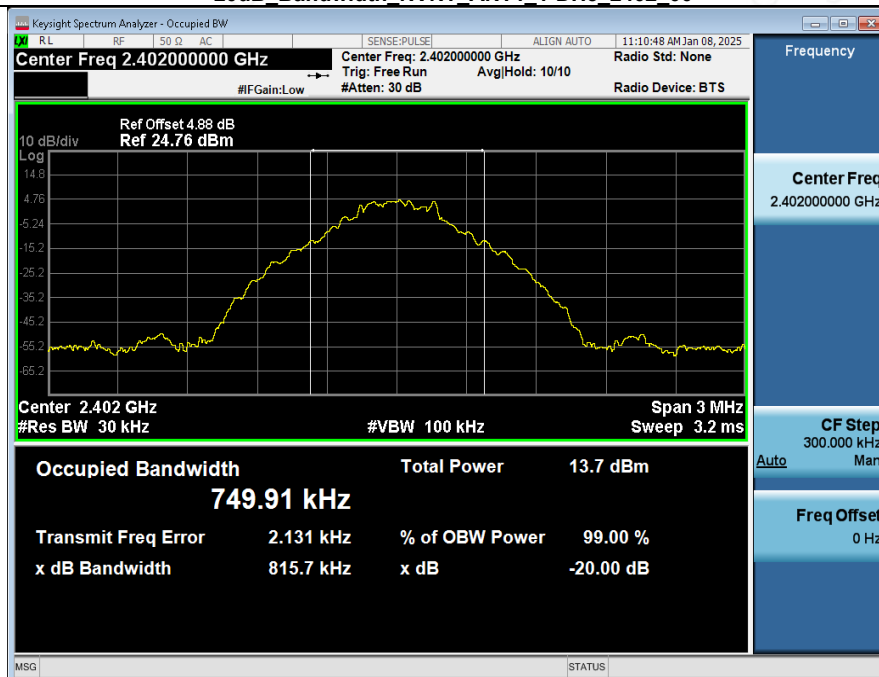




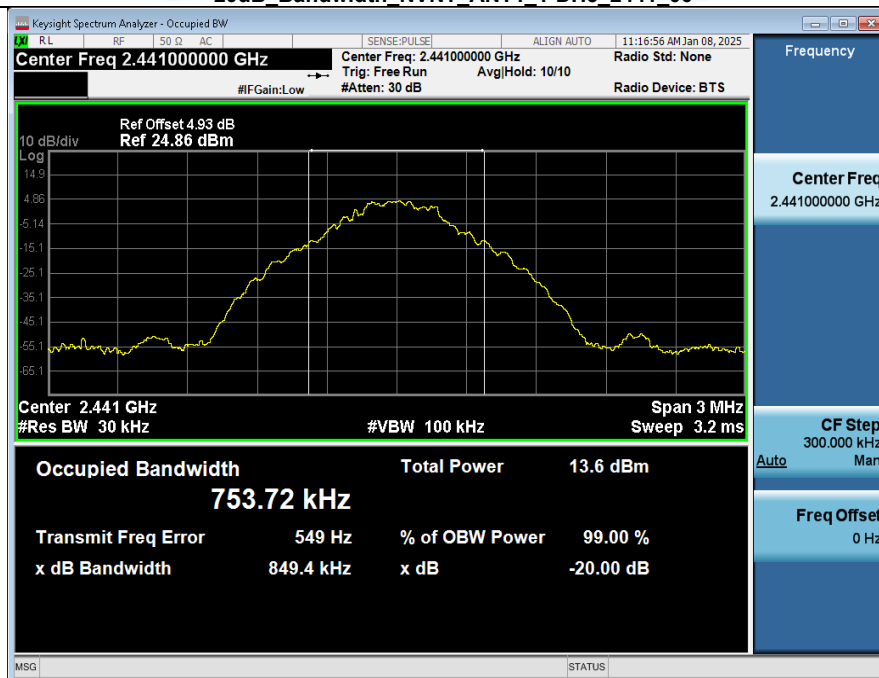
2. -20dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH5	2402.00	0.816	No
NVNT	ANT1	1-DH5	2441.00	0.849	No
NVNT	ANT1	1-DH5	2480.00	0.844	No
NVNT	ANT1	2-DH5	2402.00	1.330	Yes
NVNT	ANT1	2-DH5	2441.00	1.318	Yes
NVNT	ANT1	2-DH5	2480.00	1.320	Yes
NVNT	ANT1	3-DH5	2402.00	1.309	Yes
NVNT	ANT1	3-DH5	2441.00	1.313	Yes
NVNT	ANT1	3-DH5	2480.00	1.306	Yes

-20dB Bandwidth_NVNT_ANT1_1-DH5_2402_00

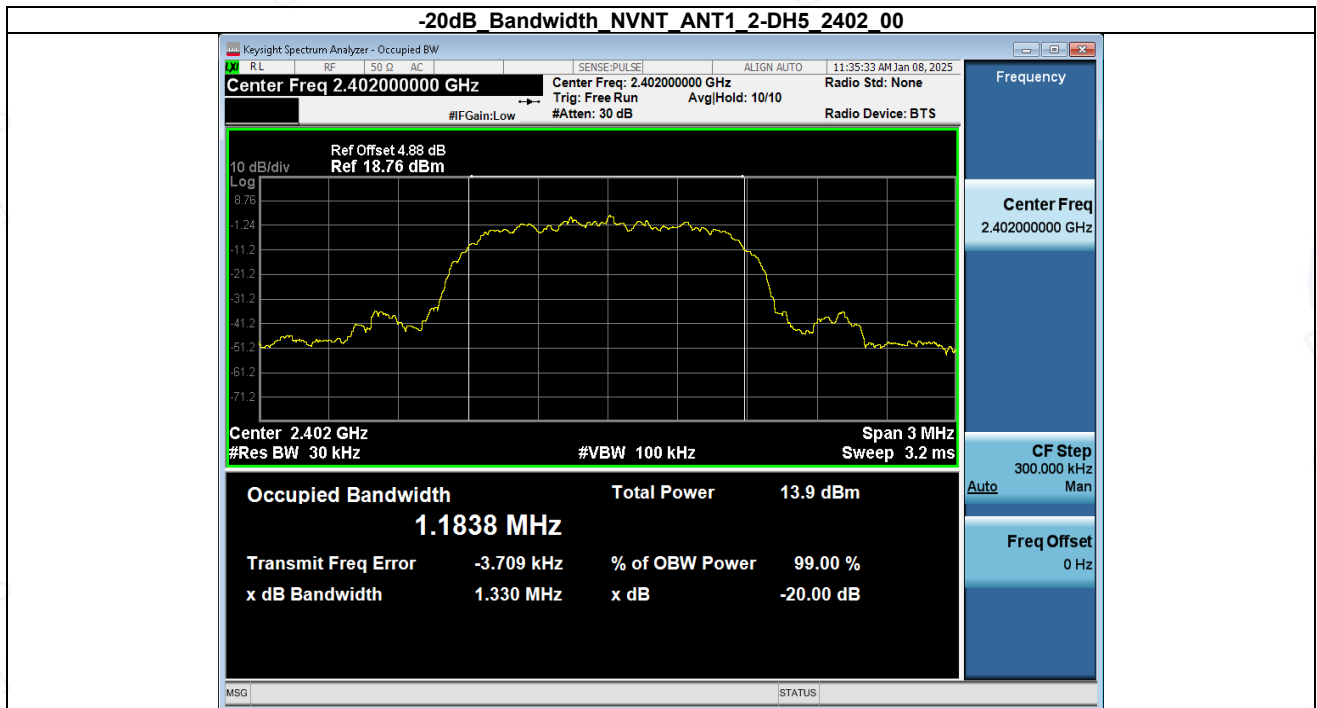
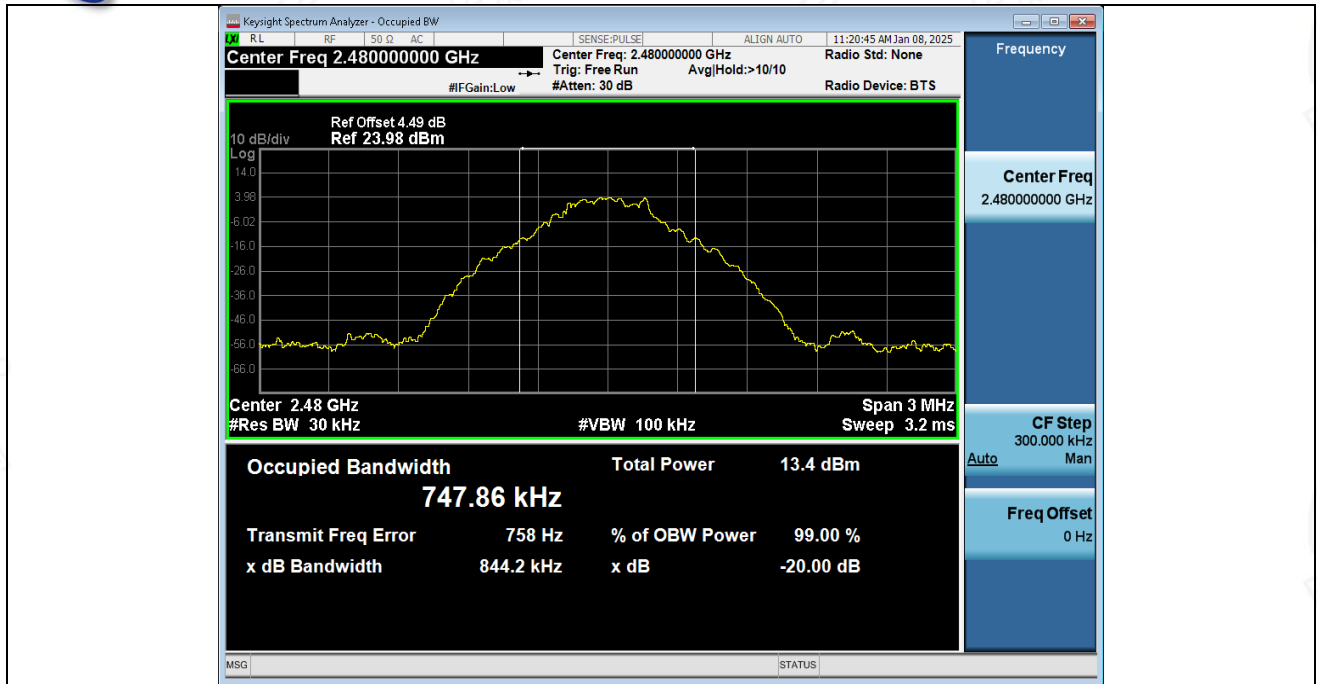


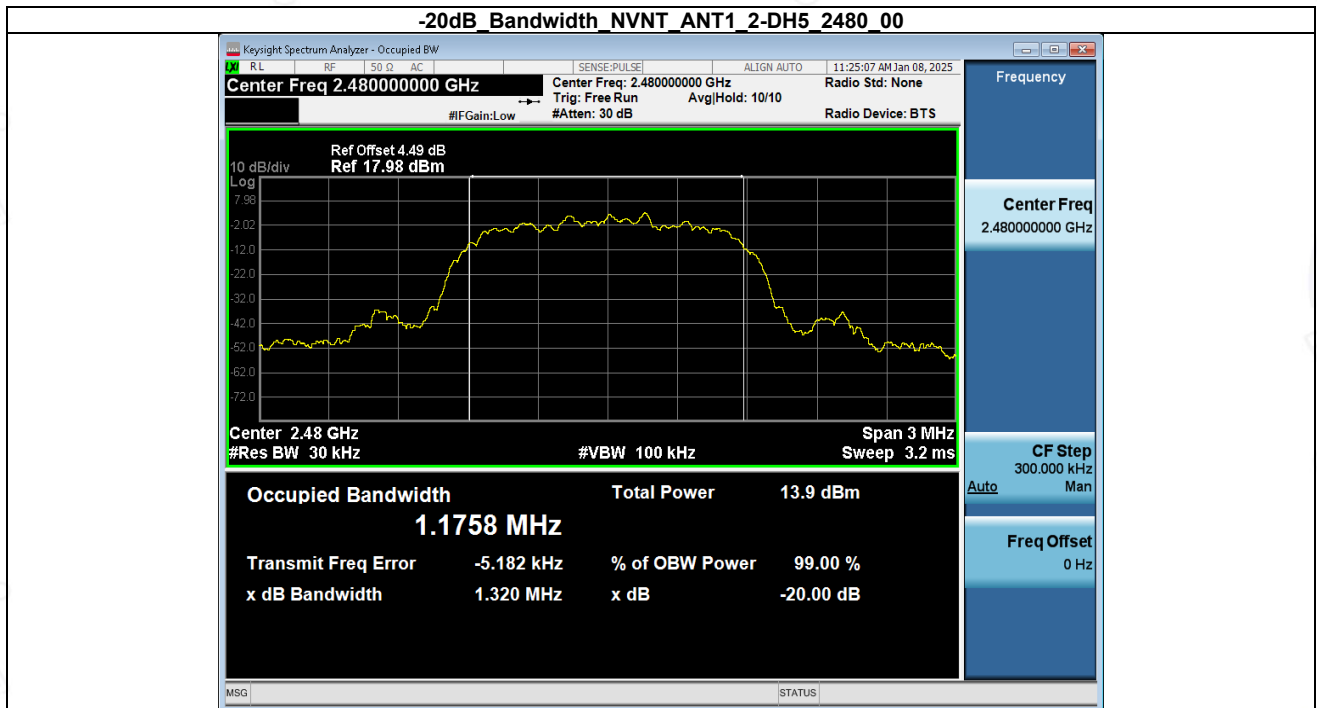
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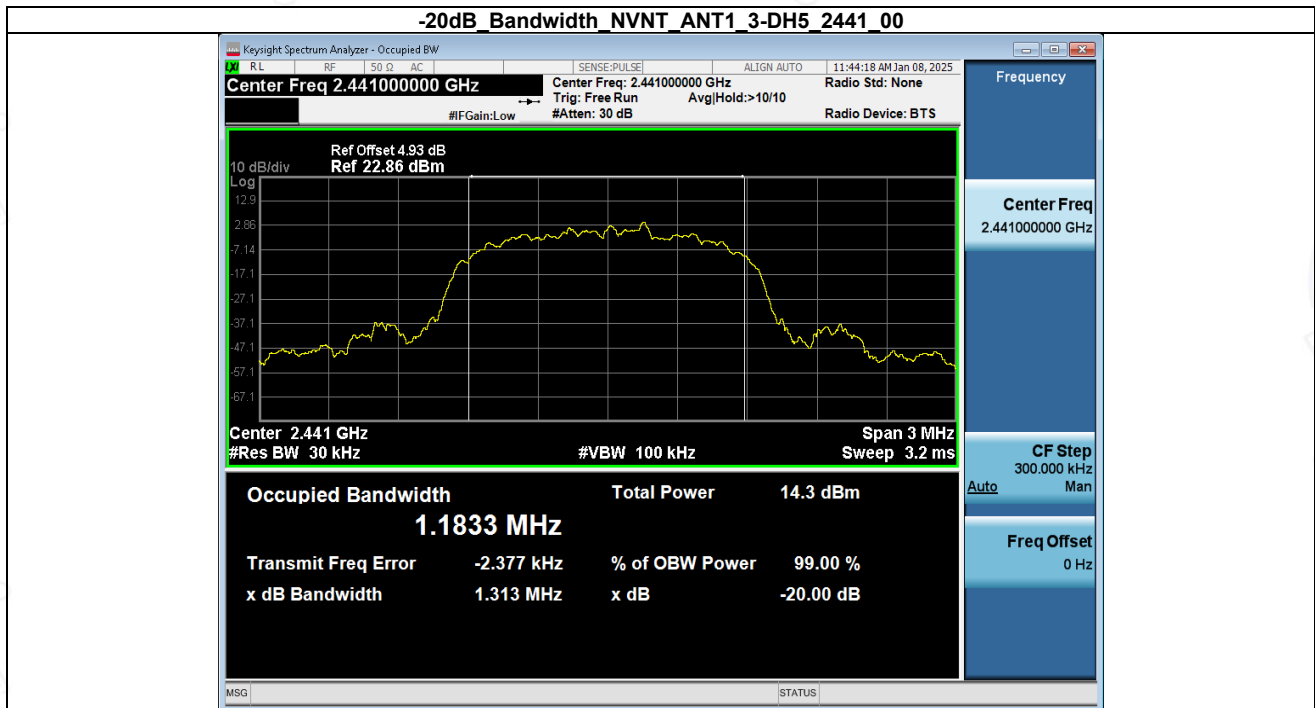
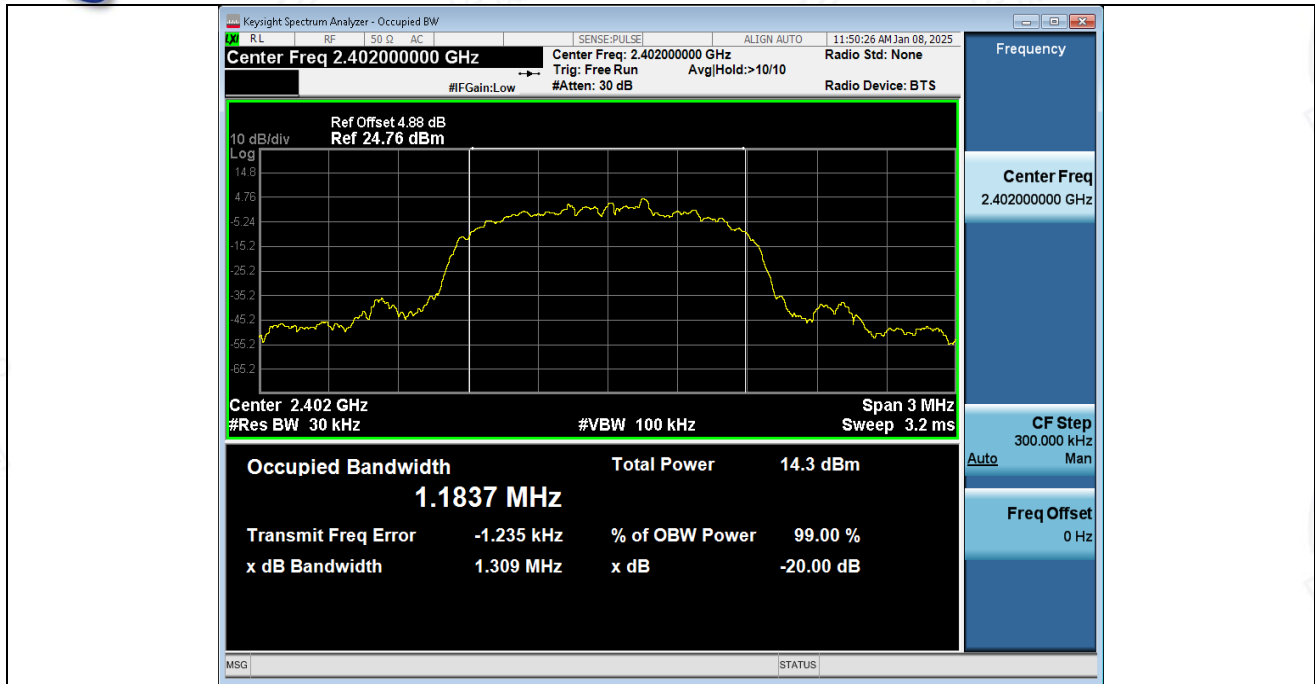


-20dB Bandwidth_NVNT_ANT1_1-DH5_2480_00







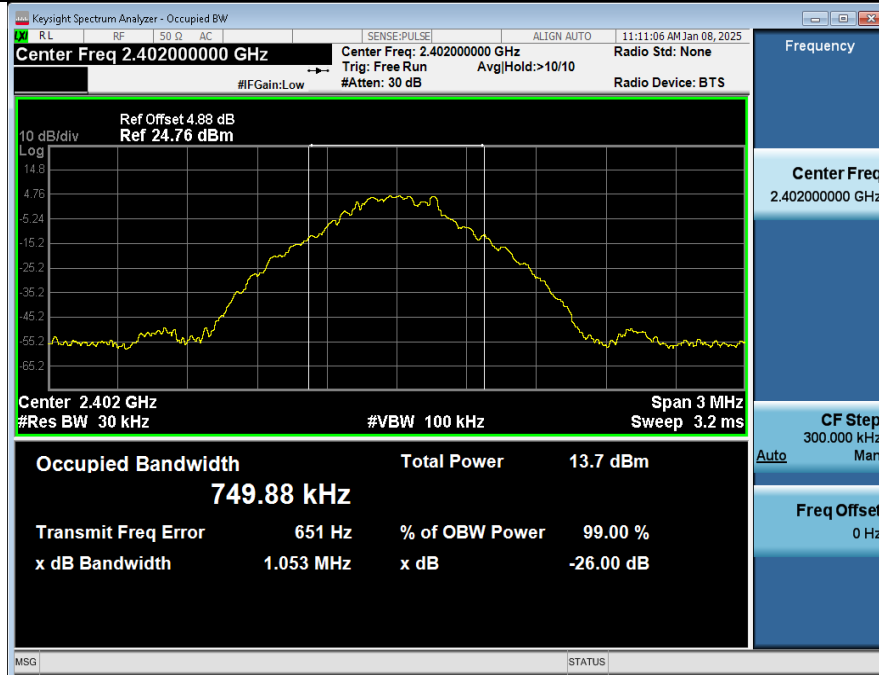




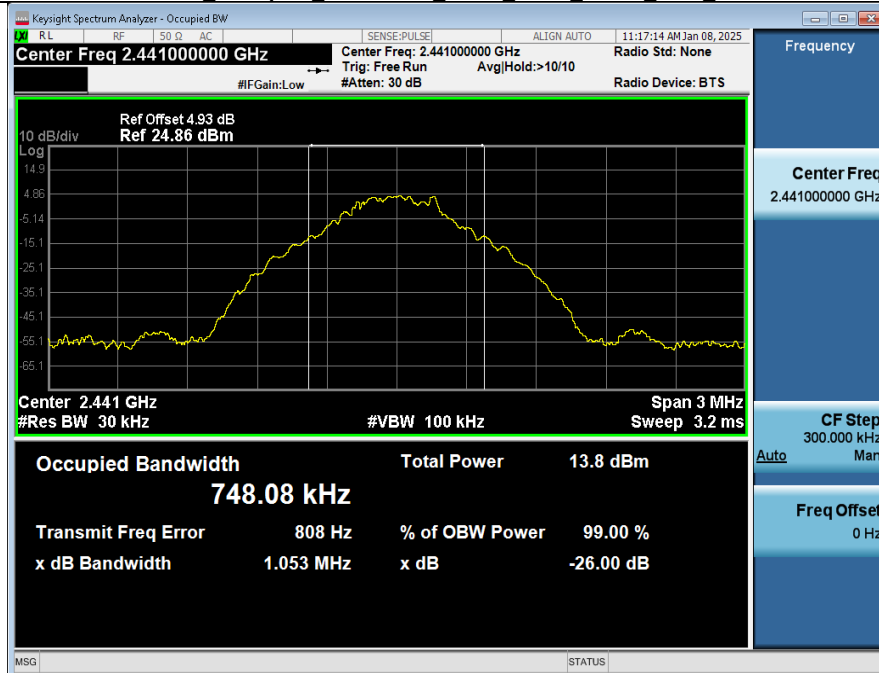
3. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	1-DH5	2402.00	0.750
NVNT	ANT1	1-DH5	2441.00	0.748
NVNT	ANT1	1-DH5	2480.00	0.745
NVNT	ANT1	2-DH5	2402.00	1.181
NVNT	ANT1	2-DH5	2441.00	1.179
NVNT	ANT1	2-DH5	2480.00	1.179
NVNT	ANT1	3-DH5	2402.00	1.185
NVNT	ANT1	3-DH5	2441.00	1.186
NVNT	ANT1	3-DH5	2480.00	1.187

99% Occupied Bandwidth NVNT ANT1 1-DH5 2402_00

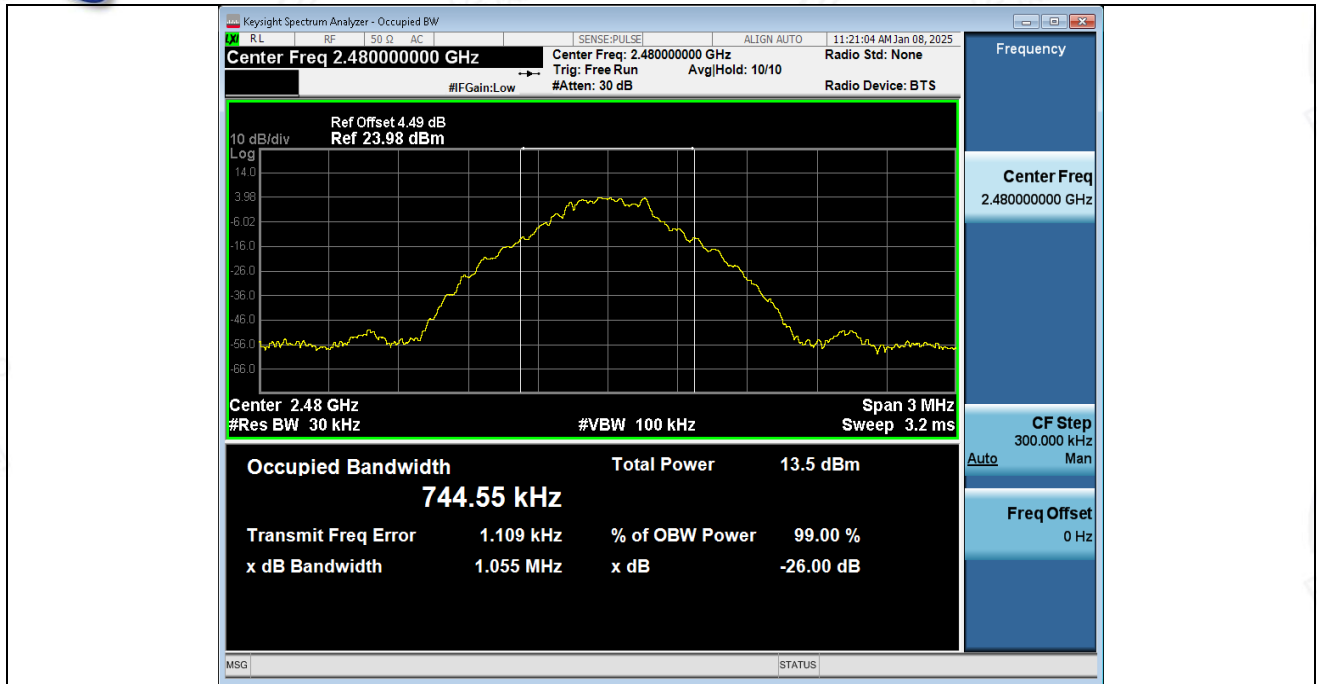


99% Occupied Bandwidth NVNT ANT1 1-DH5 2441_00

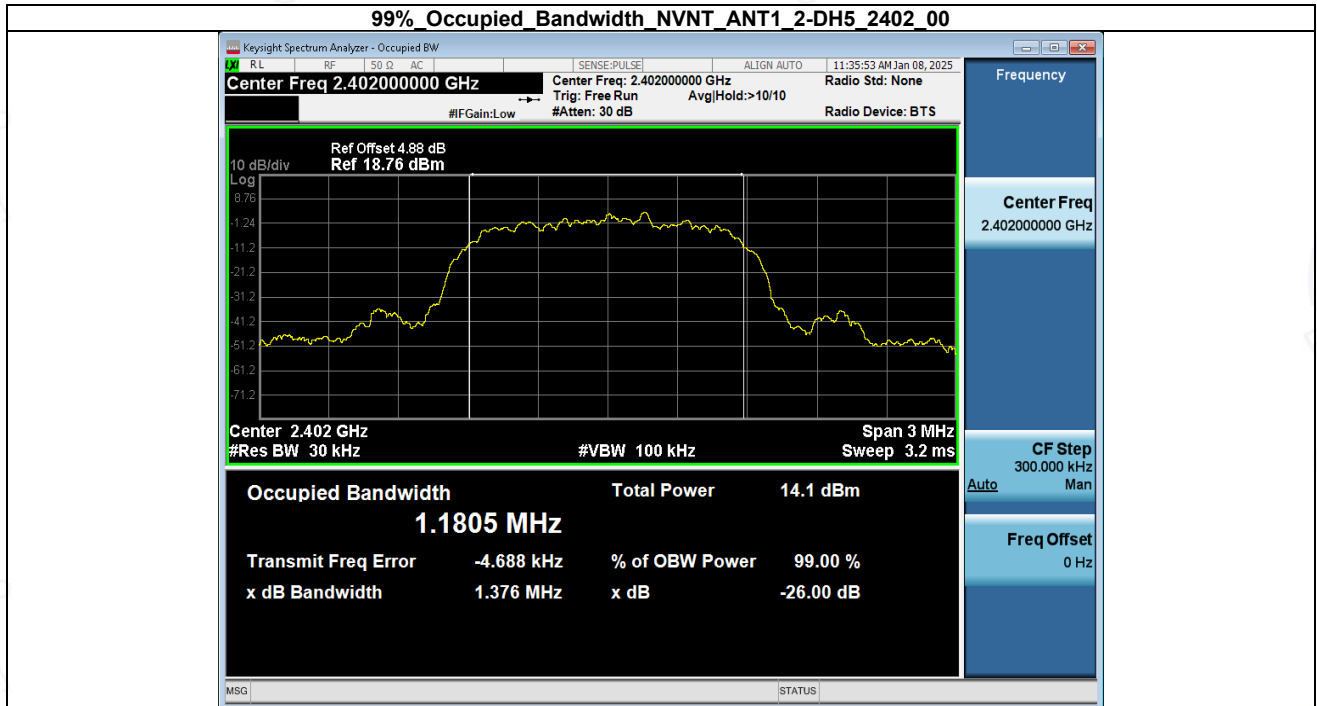


99% Occupied Bandwidth NVNT ANT1 1-DH5 2480_00





99% Occupied Bandwidth_NVNT_ANT1_2-DH5_2402_00

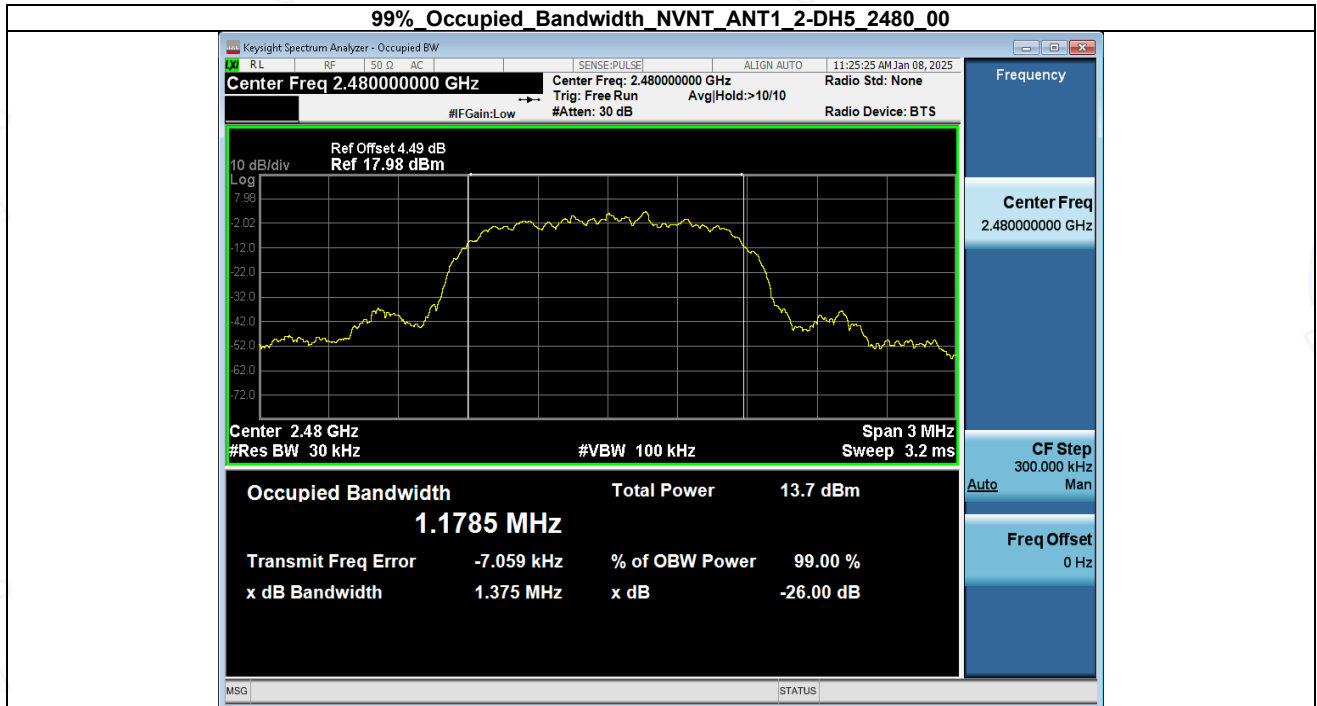


99% Occupied Bandwidth_NVNT_ANT1_2-DH5_2441_00





99% Occupied Bandwidth_NVNT_ANT1_2-DH5_2480_00

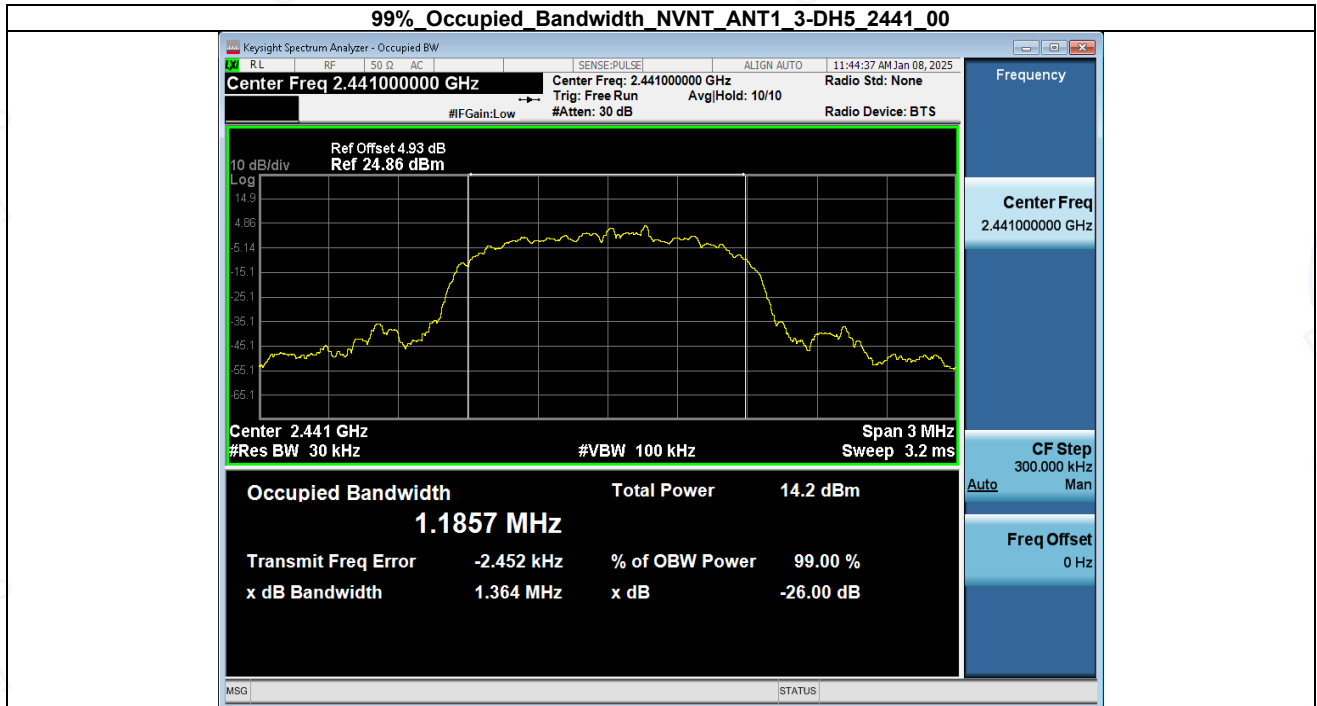


99% Occupied Bandwidth_NVNT_ANT1_3-DH5_2402_00





99% Occupied Bandwidth_NVNT_ANT1_3-DH5_2441_00



99% Occupied Bandwidth_NVNT_ANT1_3-DH5_2480_00

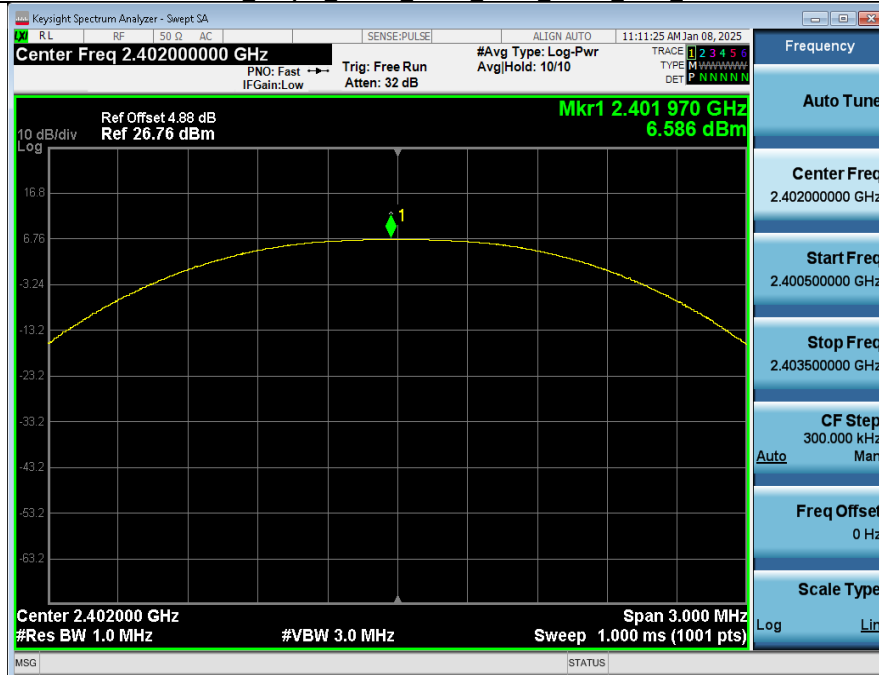




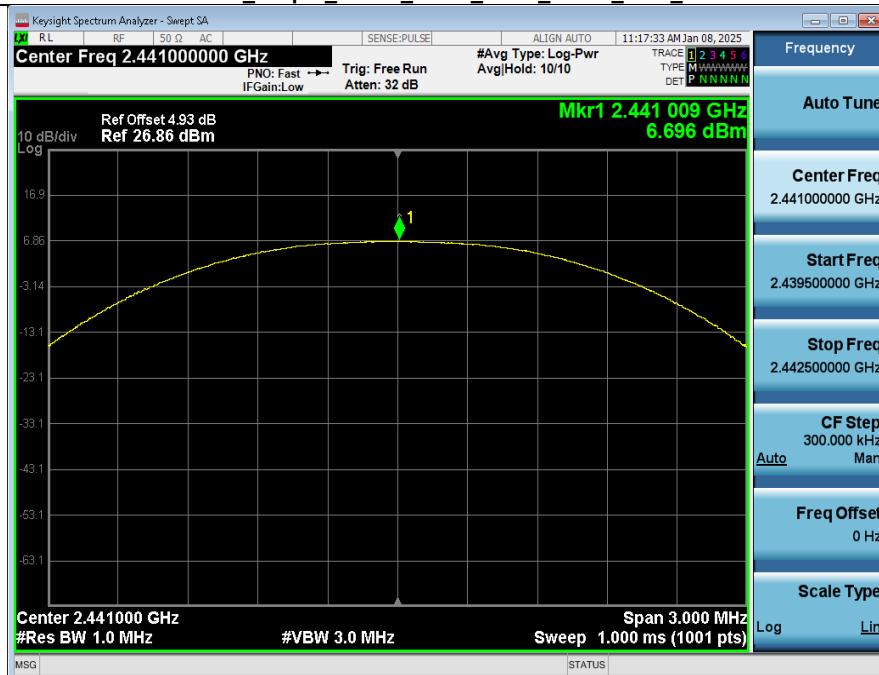
4. Peak Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1-DH5	2402.00	6.59	4.56	1000	Pass
NVNT	ANT1	1-DH5	2441.00	6.70	4.67	1000	Pass
NVNT	ANT1	1-DH5	2480.00	6.12	4.09	1000	Pass
NVNT	ANT1	2-DH5	2402.00	9.22	8.35	125	Pass
NVNT	ANT1	2-DH5	2441.00	9.12	8.17	125	Pass
NVNT	ANT1	2-DH5	2480.00	8.70	7.41	125	Pass
NVNT	ANT1	3-DH5	2402.00	9.60	9.12	125	Pass
NVNT	ANT1	3-DH5	2441.00	9.64	9.21	125	Pass
NVNT	ANT1	3-DH5	2480.00	9.13	8.19	125	Pass

Peak_Output_Power_NVNT_ANT1_1-DH5_2402_00

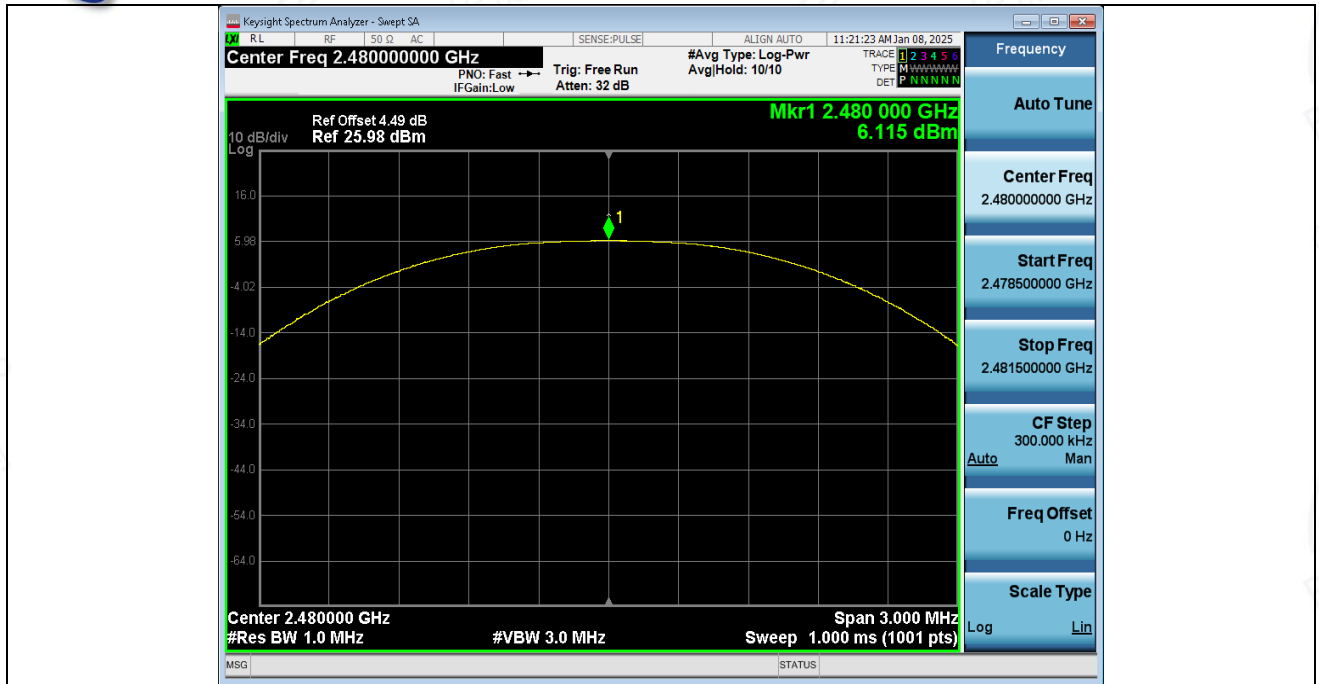


Peak_Output_Power_NVNT_ANT1_1-DH5_2441_00

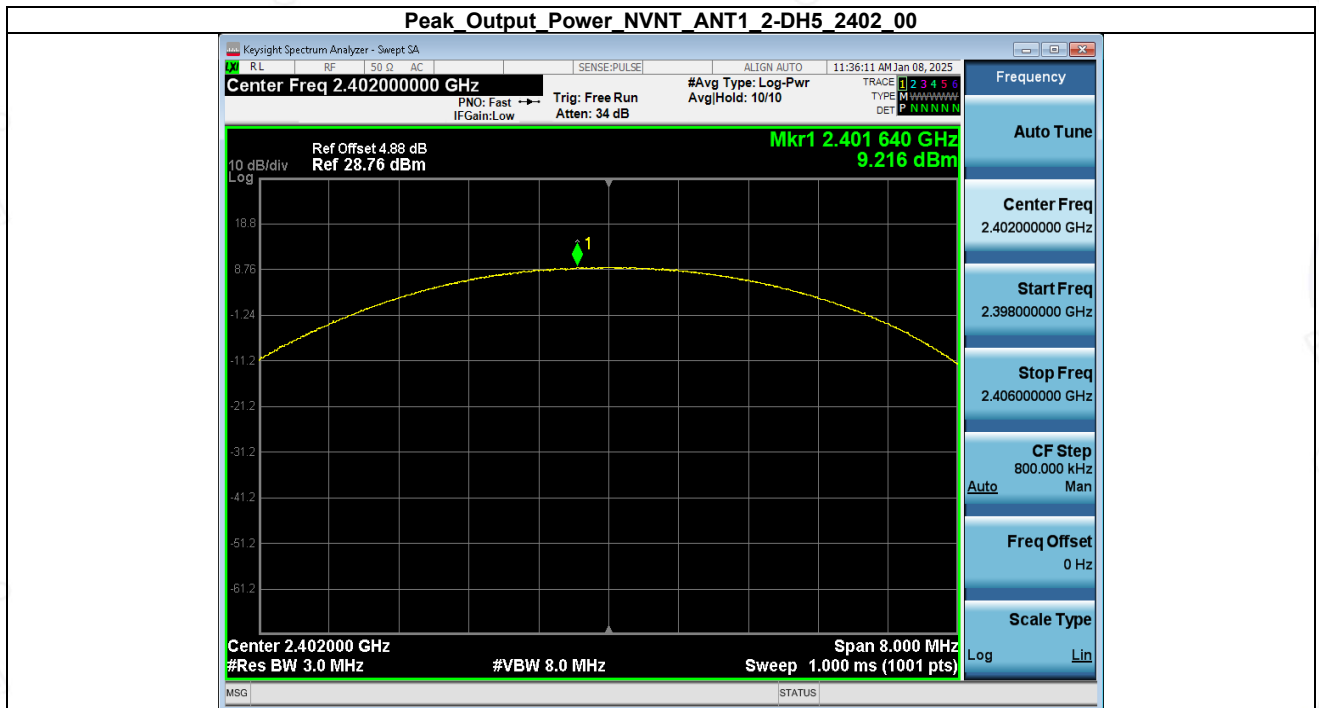


Peak_Output_Power_NVNT_ANT1_1-DH5_2480_00



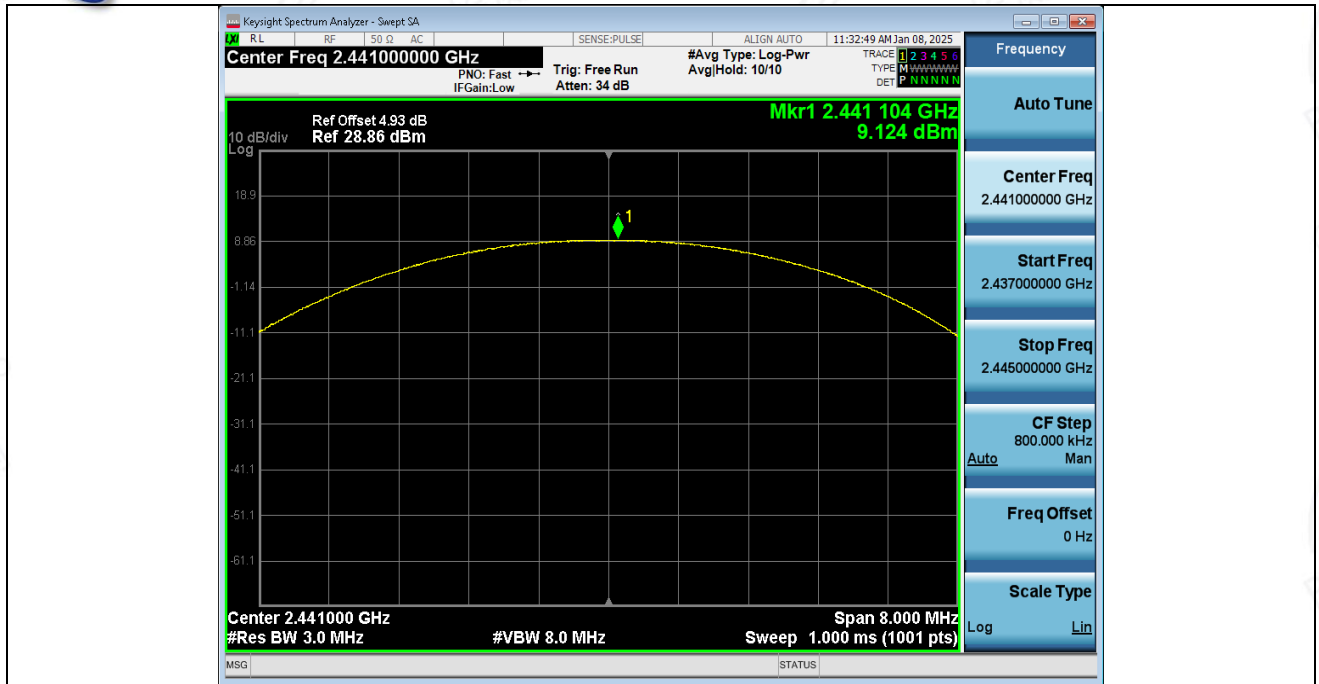


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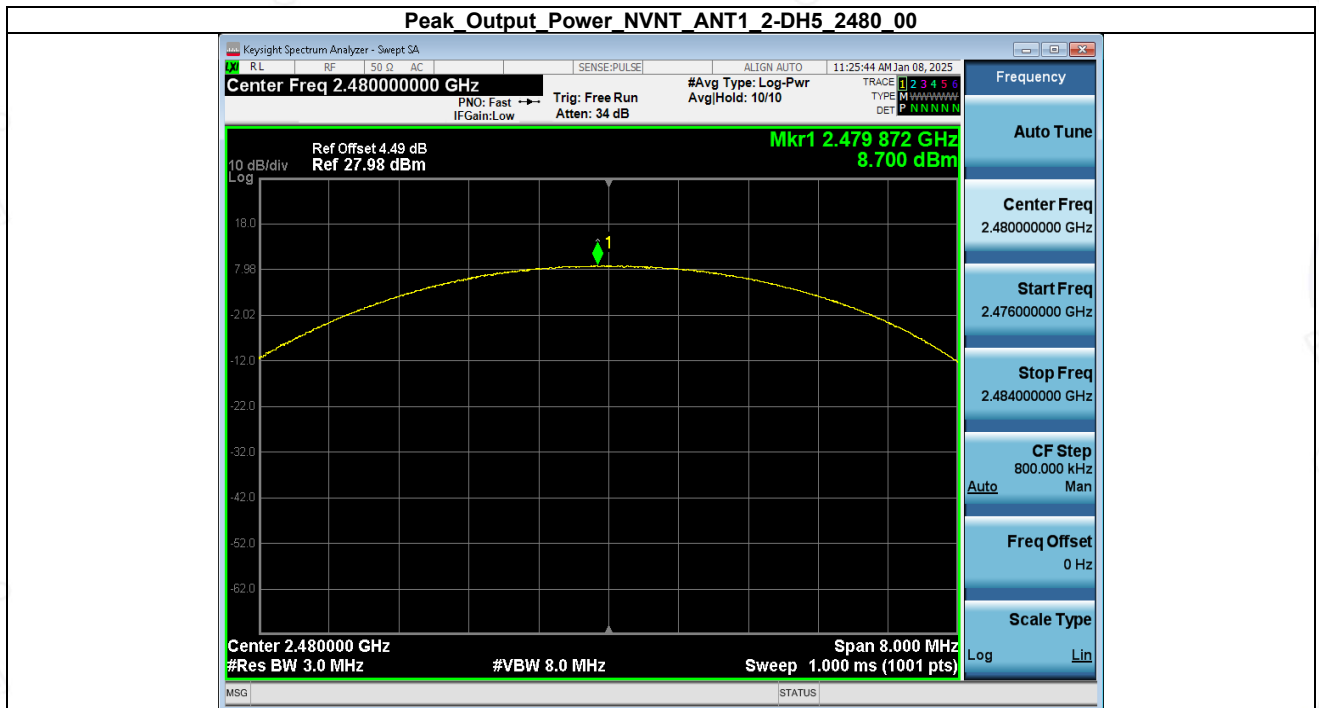


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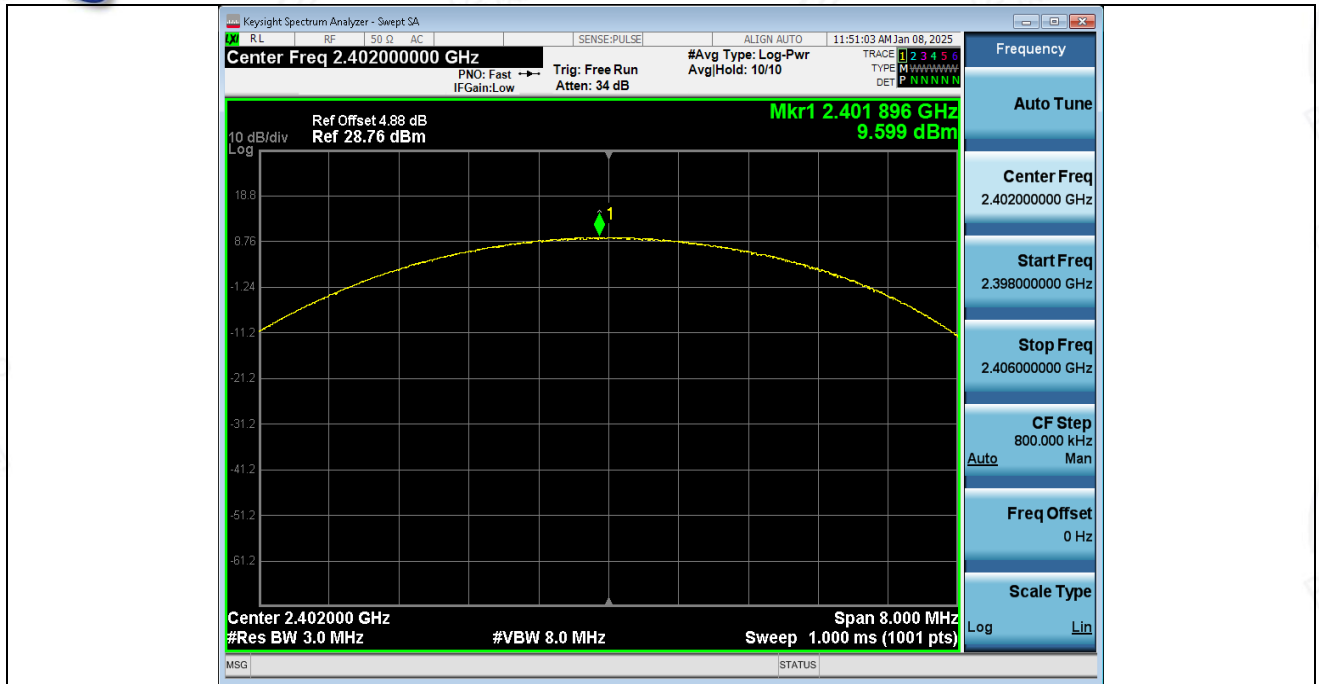


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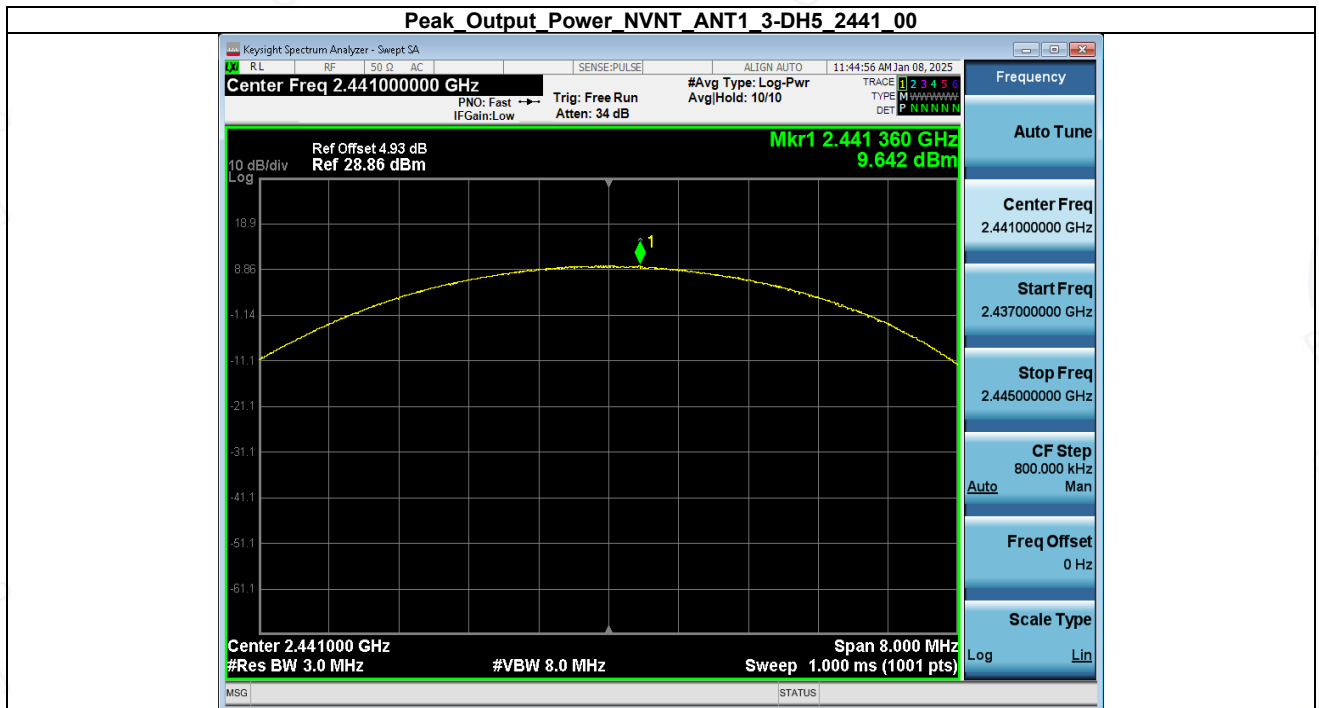


Peak_Output_Power_NVNT_ANT1_3-DH5_2402_00



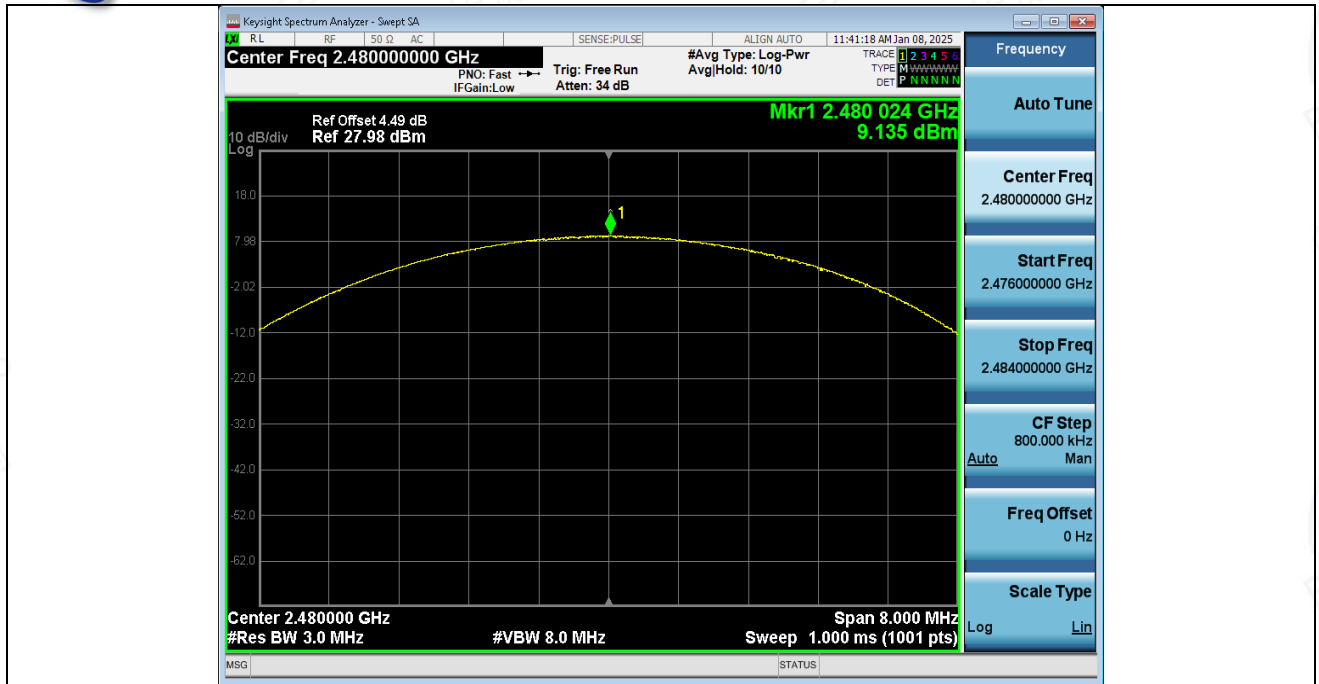


Peak_Output_Power_NVNT_ANT1_3-DH5_2441_00



Peak_Output_Power_NVNT_ANT1_3-DH5_2480_00

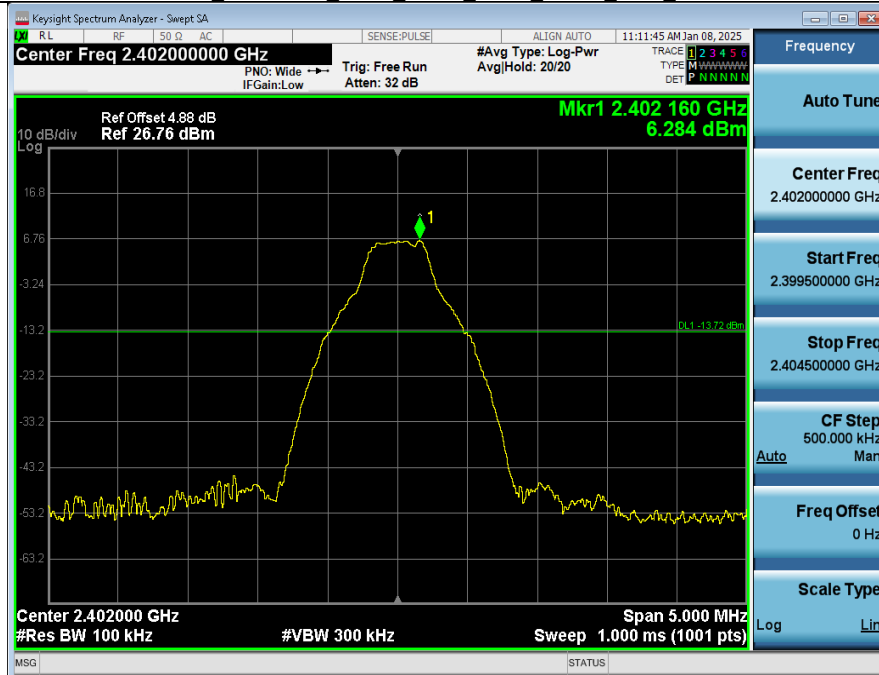




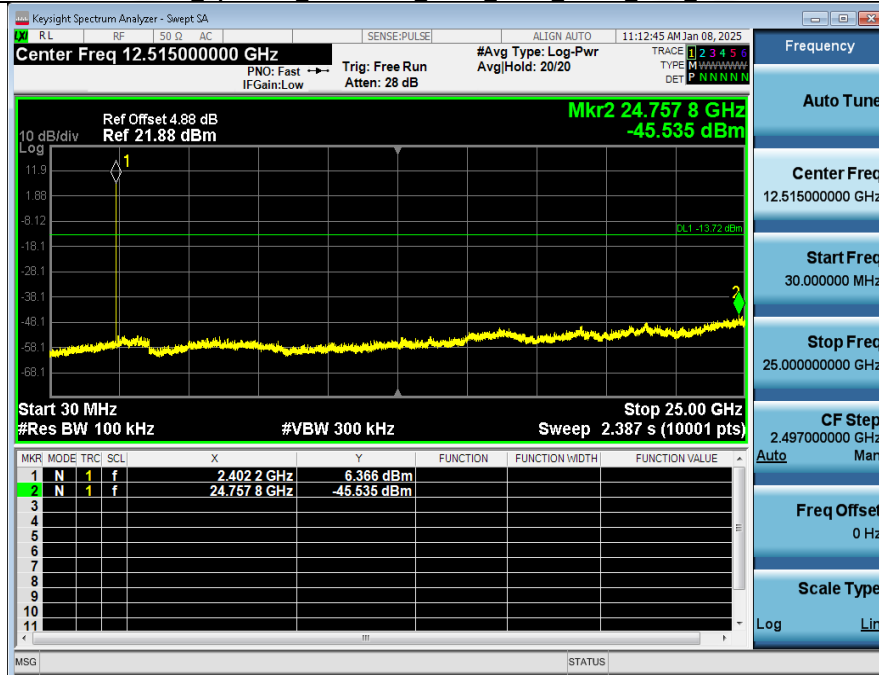
5. Spurious Emissions

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH5	2402.00	6.284	-45.535	-13.716	Pass
NVNT	ANT1	1-DH5	2441.00	6.347	-46.103	-13.653	Pass
NVNT	ANT1	1-DH5	2480.00	5.709	-46.503	-14.291	Pass
NVNT	ANT1	2-DH5	2402.00	6.143	-45.441	-13.857	Pass
NVNT	ANT1	2-DH5	2441.00	6.129	-52.380	-13.871	Pass
NVNT	ANT1	2-DH5	2480.00	5.418	-47.054	-14.582	Pass
NVNT	ANT1	3-DH5	2402.00	6.243	-46.552	-13.757	Pass
NVNT	ANT1	3-DH5	2441.00	6.257	-51.854	-13.743	Pass
NVNT	ANT1	3-DH5	2480.00	5.317	-52.122	-14.683	Pass

1 Reference Level NVNT ANT1 1-DH5 2402 00

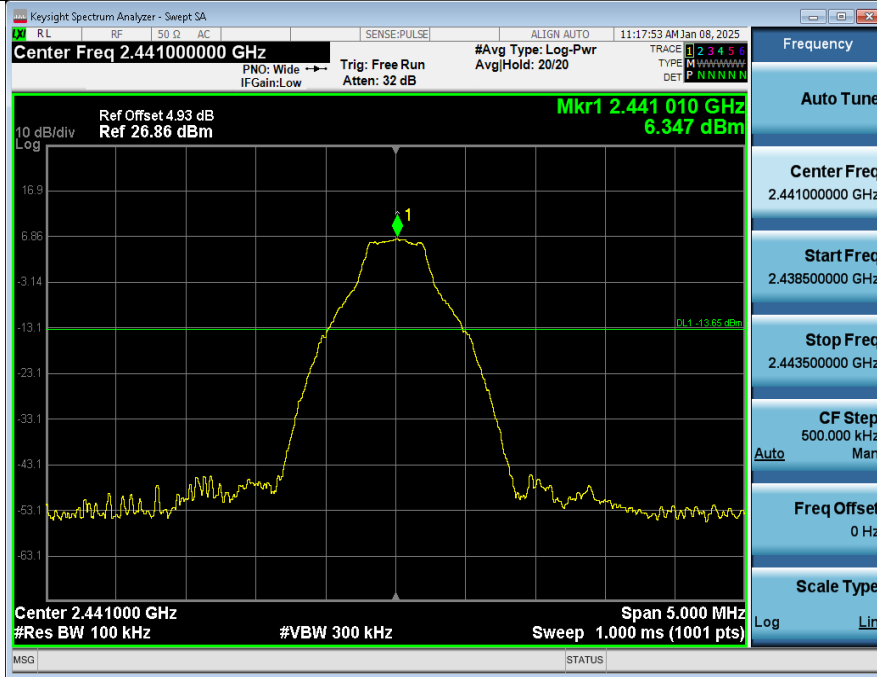


2 Spurious Emissions NVNT ANT1 1-DH5 2402 00

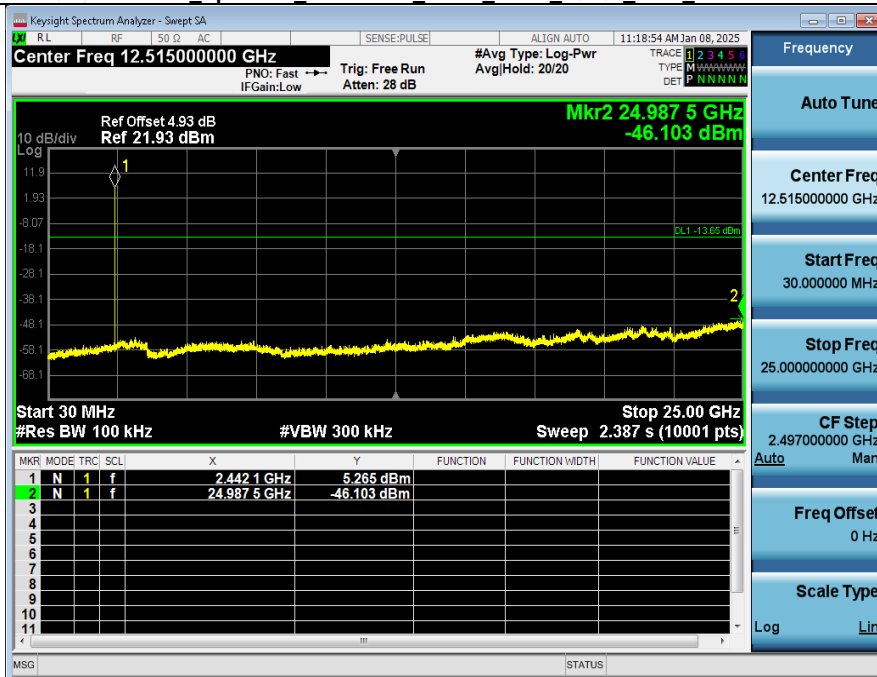


1 Reference Level NVNT ANT1 1-DH5 2441 00



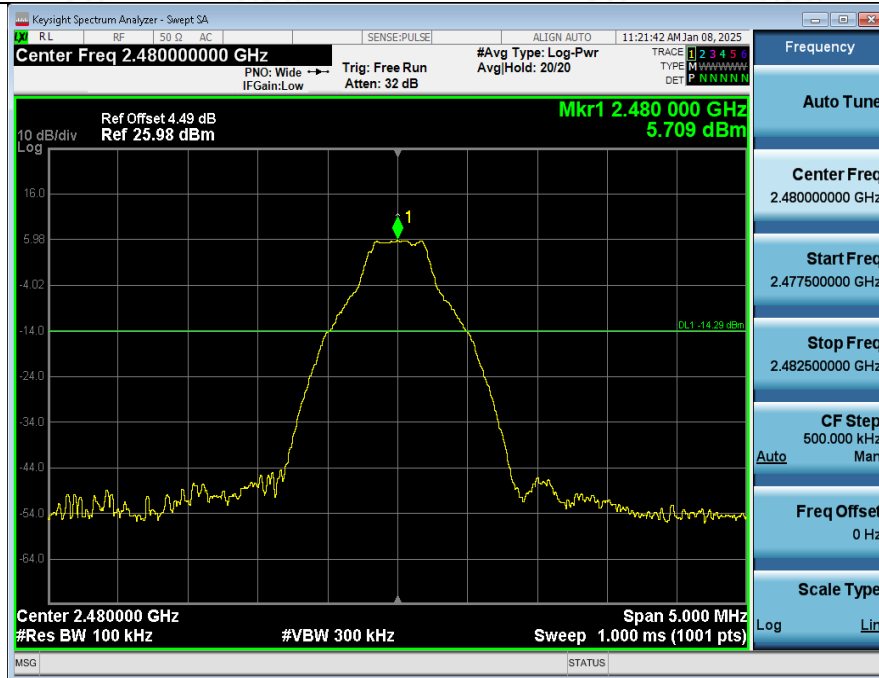


2_Spurious_Emissions_NVNT_ANT1_1-DH5_2441_00

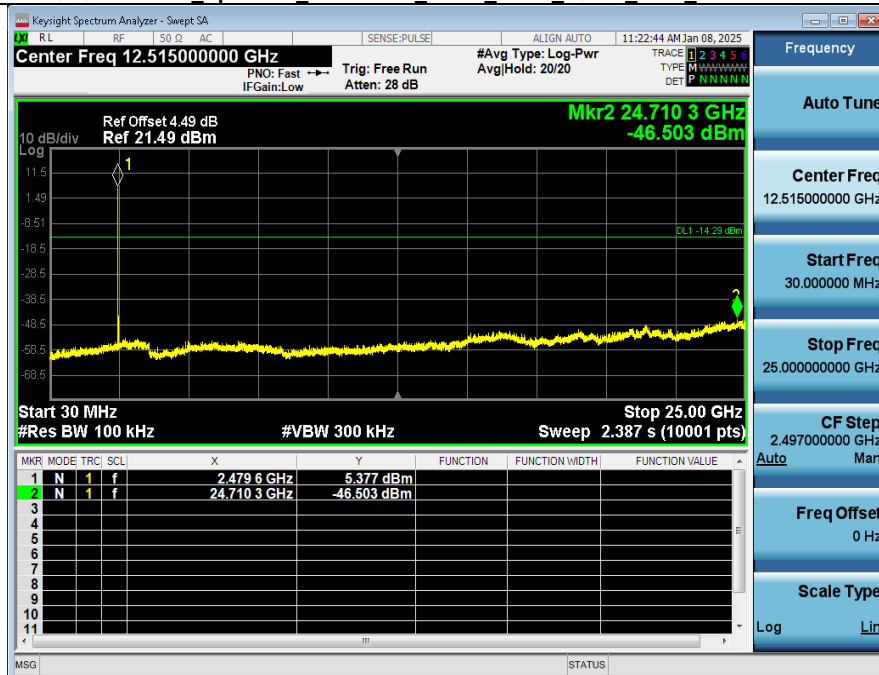


1_Reference_Level_NVNT_ANT1_1-DH5_2480_00





2_Spurious_Emissions_NVNT_ANT1_1-DH5_2480_00

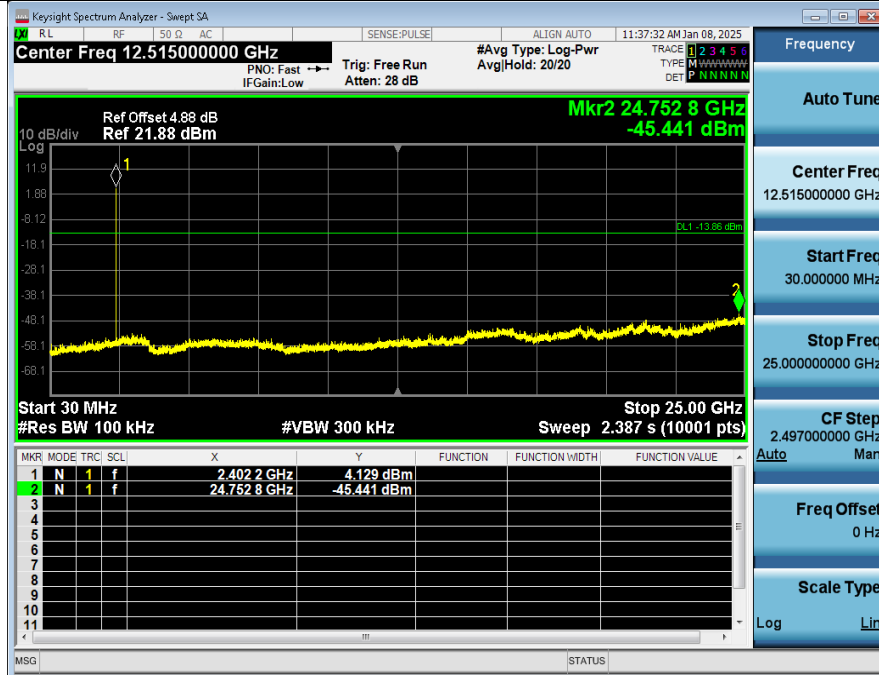


1_Reference_Level_NVNT_ANT1_2-DH5_2402_00





2_Spurious_Emissions_NVNT_ANT1_2-DH5_2402_00

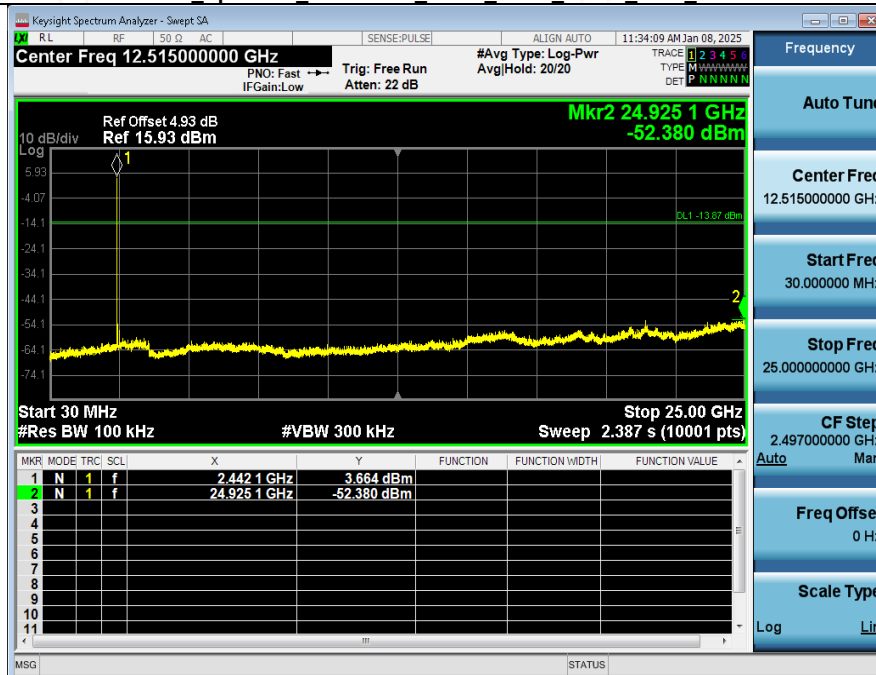


1_Reference_Level_NVNT_ANT1_2-DH5_2441_00



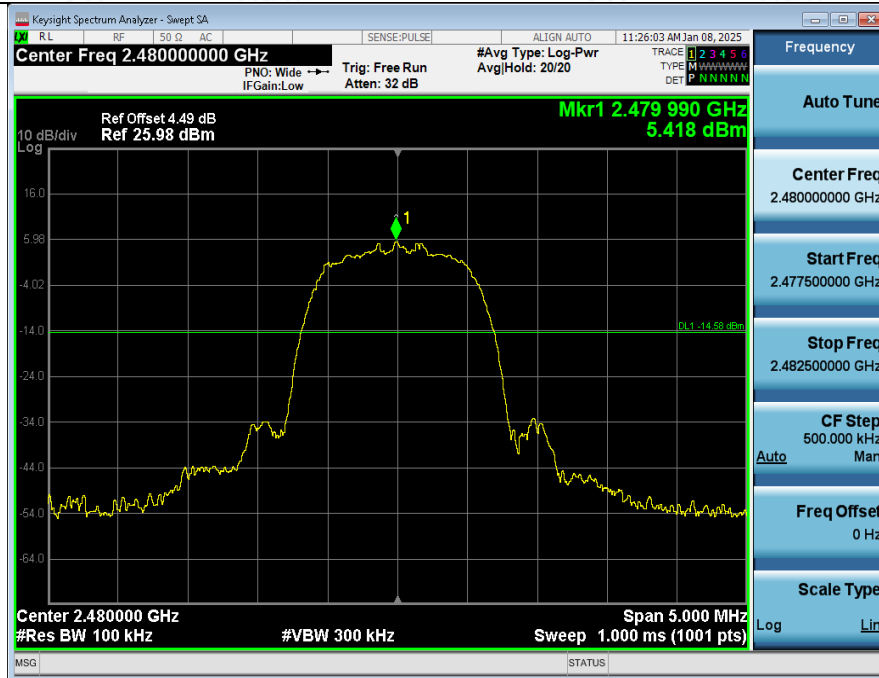


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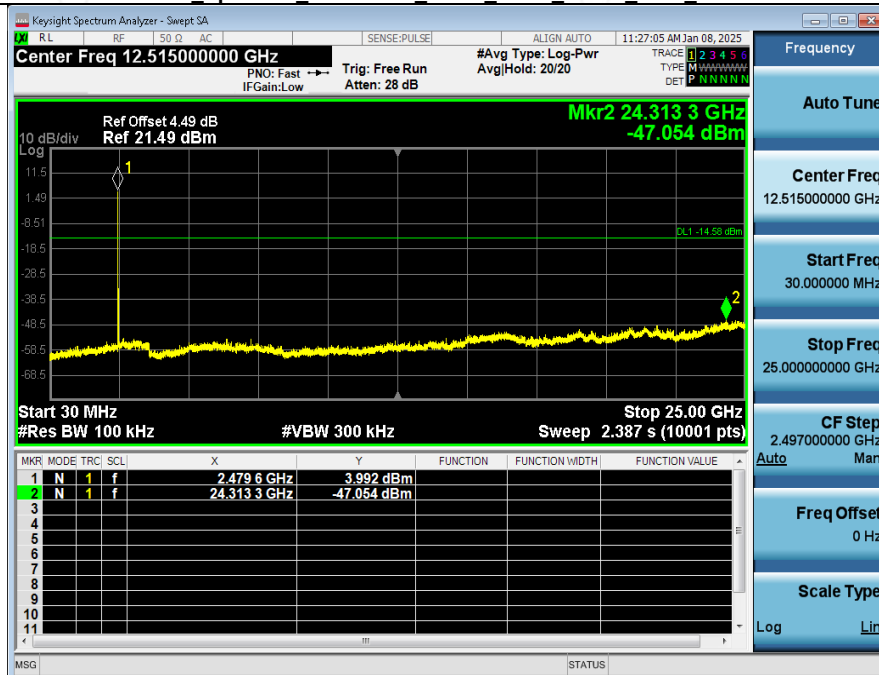


1_Reference_Level_NVNT_ANT1_2-DH5_2480_00





2_Spurious_Emissions_NVNT_ANT1_2-DH5_2480_00

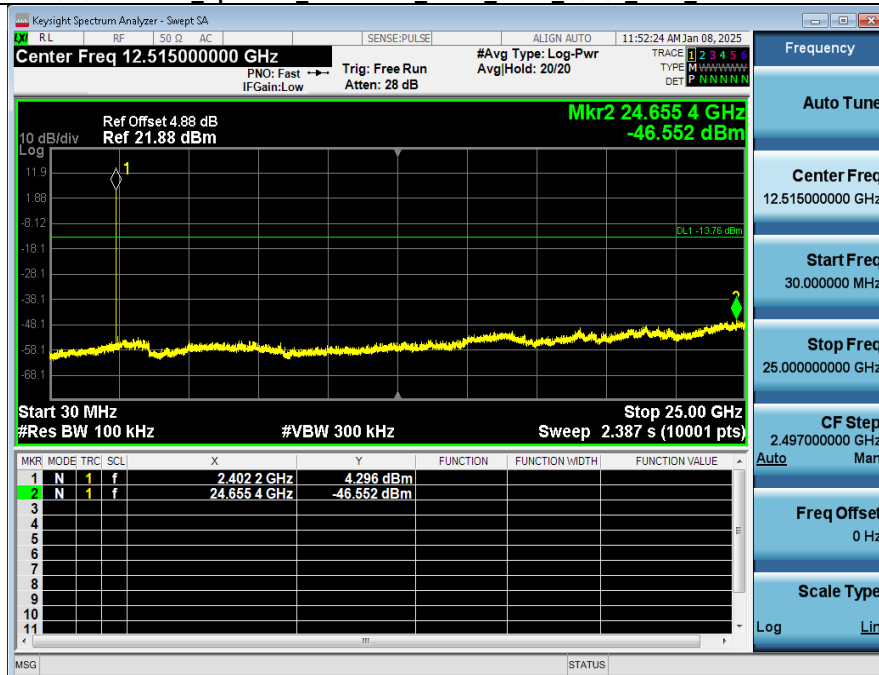


1_Reference_Level_NVNT_ANT1_3-DH5_2402_00





2_Spurious_Emissions_NVNT_ANT1_3-DH5_2402_00

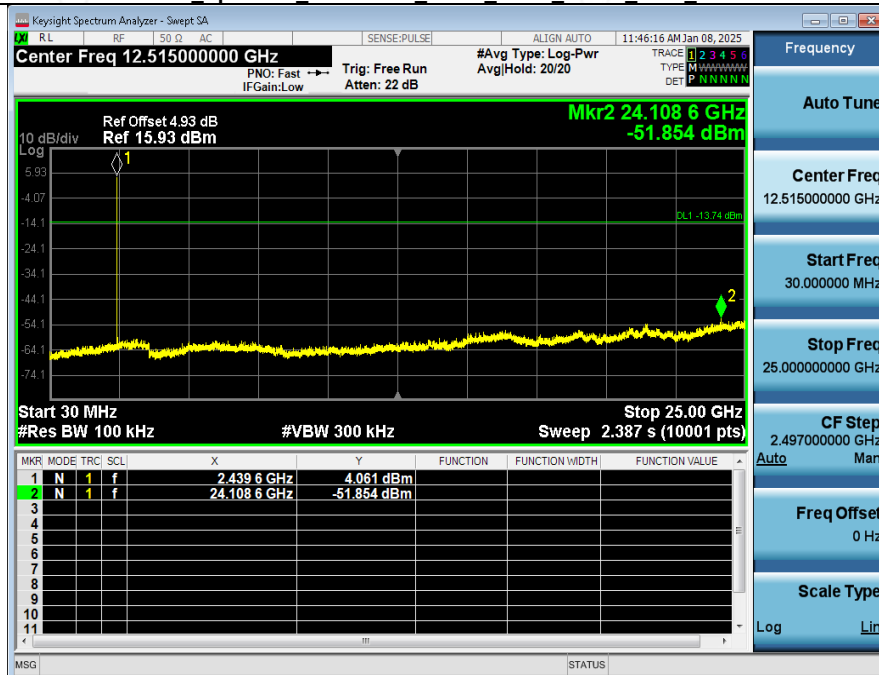


1_Reference_Level_NVNT_ANT1_3-DH5_2441_00



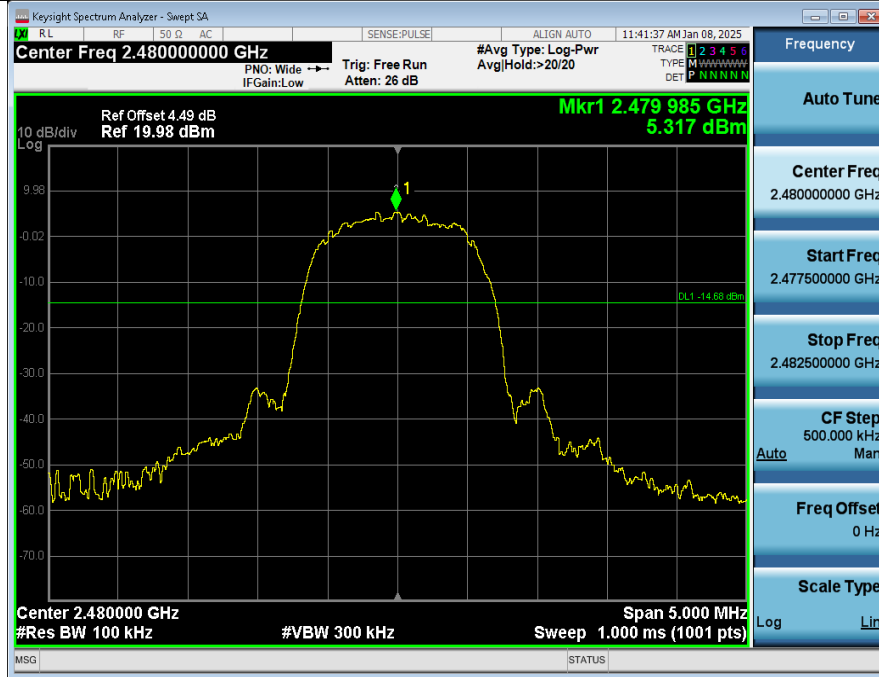


2_Spurious_Emissions_NVNT_ANT1_3-DH5_2441_00

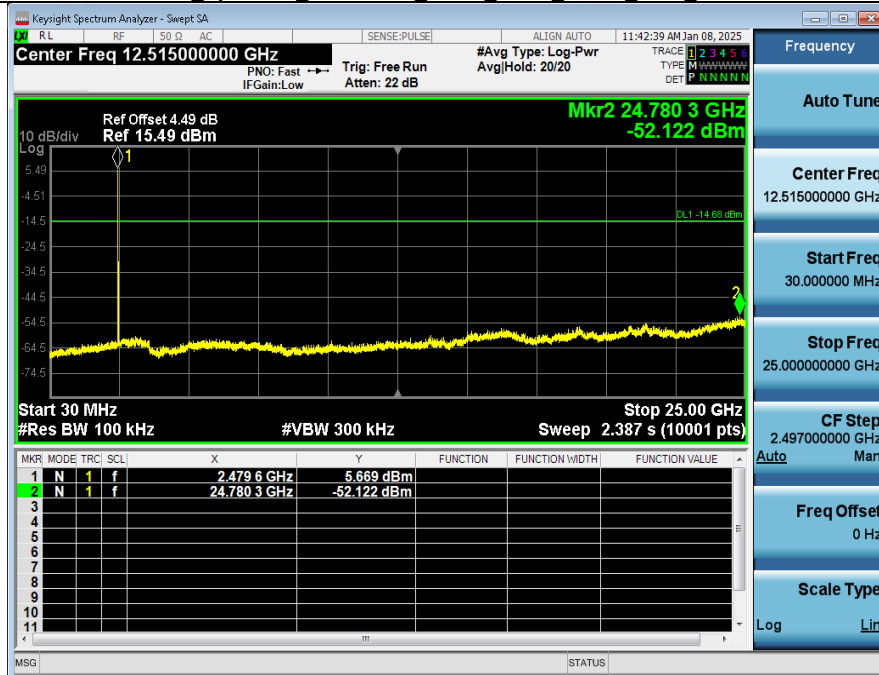


1_Reference_Level_NVNT_ANT1_3-DH5_2480_00





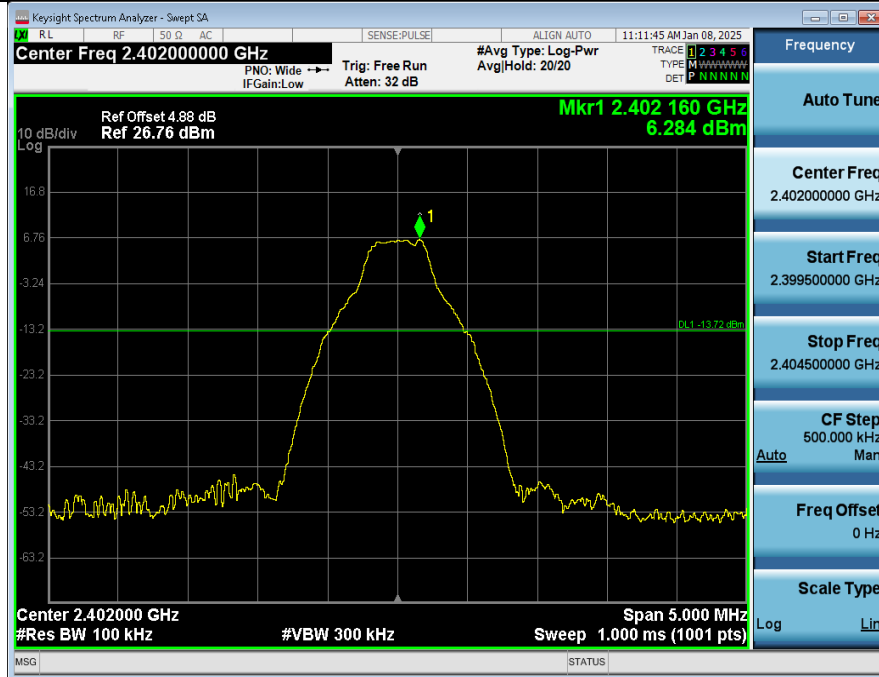
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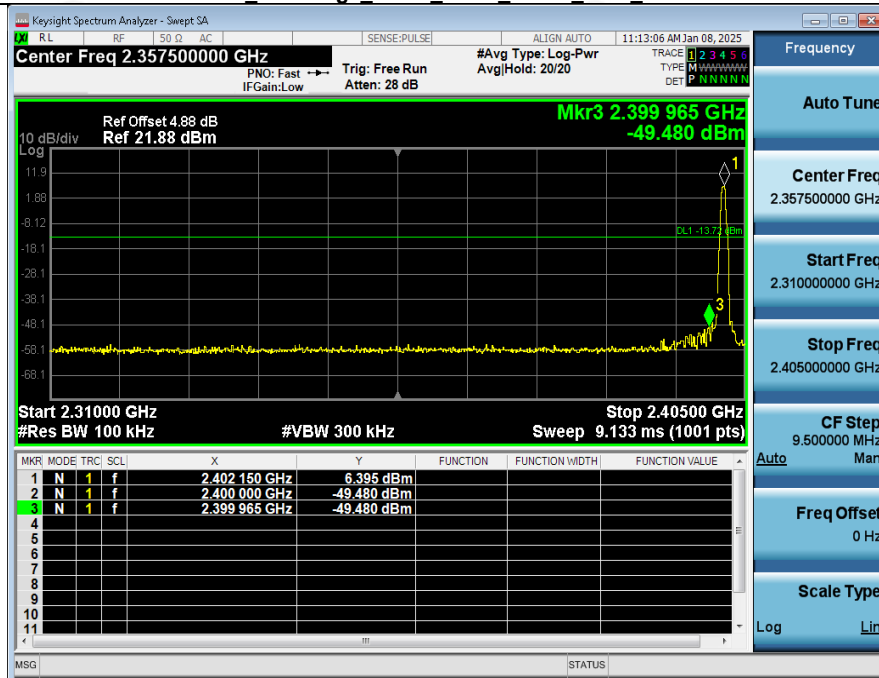
6. Bandedge

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Bandedge MAX.Value	Limit	Result
NVNT	ANT1	1-DH5	2402.00	6.284	-49.480	-13.716	Pass
NVNT	ANT1	1-DH5	Hopping_LCH	6.378	-51.913	-13.622	Pass
NVNT	ANT1	1-DH5	2480.00	5.709	-54.110	-14.291	Pass
NVNT	ANT1	1-DH5	Hopping_HCH	6.062	-55.928	-13.938	Pass
NVNT	ANT1	2-DH5	2402.00	6.143	-49.570	-13.857	Pass
NVNT	ANT1	2-DH5	Hopping_LCH	6.114	-50.238	-13.886	Pass
NVNT	ANT1	2-DH5	2480.00	5.418	-55.399	-14.582	Pass
NVNT	ANT1	2-DH5	Hopping_HCH	5.824	-55.227	-14.176	Pass
NVNT	ANT1	3-DH5	2402.00	6.243	-48.368	-13.757	Pass
NVNT	ANT1	3-DH5	Hopping_LCH	6.538	-51.308	-13.462	Pass
NVNT	ANT1	3-DH5	2480.00	5.317	-58.902	-14.683	Pass
NVNT	ANT1	3-DH5	Hopping_HCH	5.848	-52.969	-14.152	Pass

1 Reference Level NVNT ANT1 1-DH5 2402_00

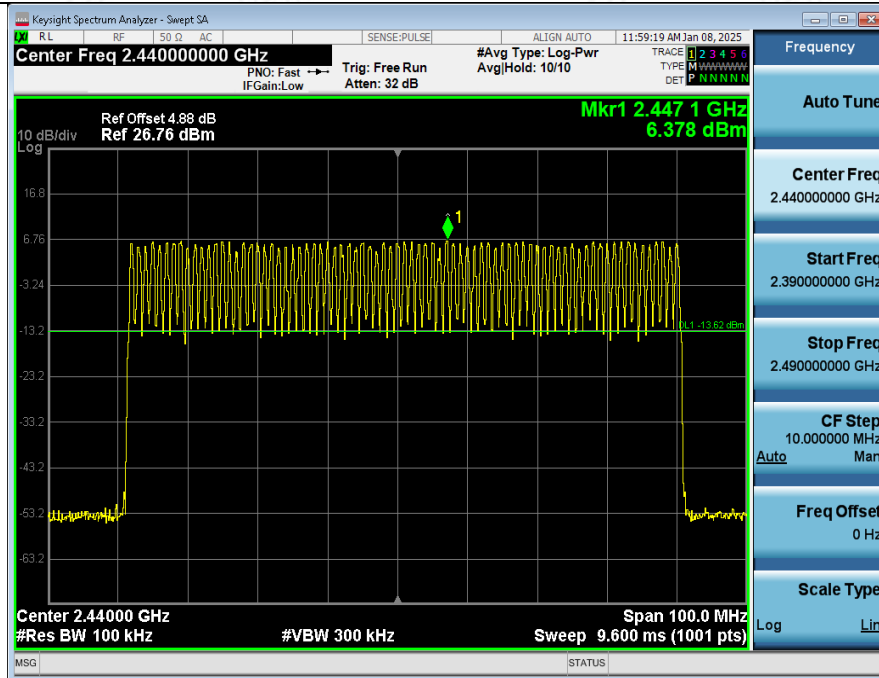


2 Bandedge NVNT ANT1 1-DH5 2402_00

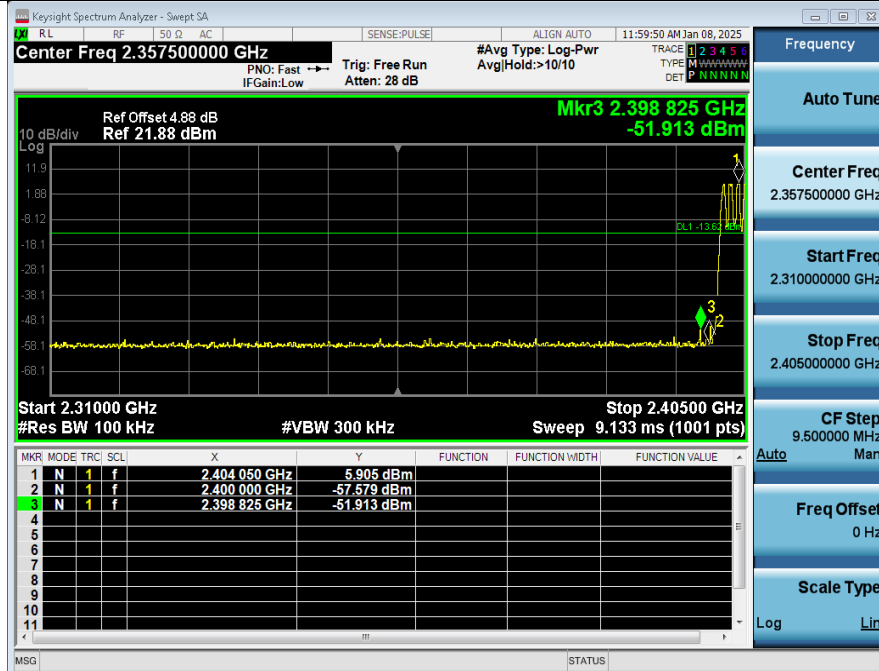


1 Reference Level Hopping NVNT ANT1 1-DH5 Hopping



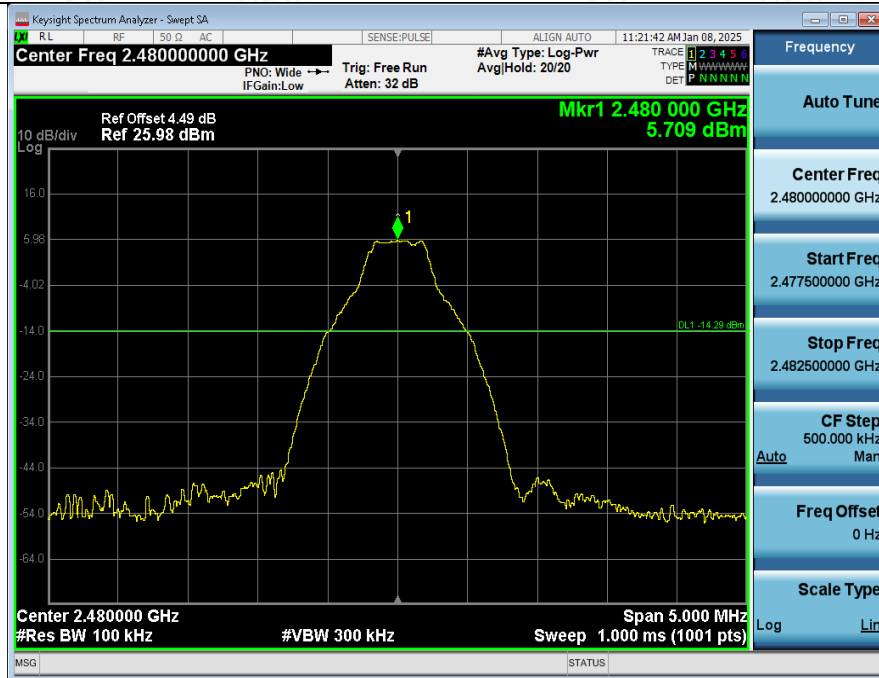


2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH5_Hopping

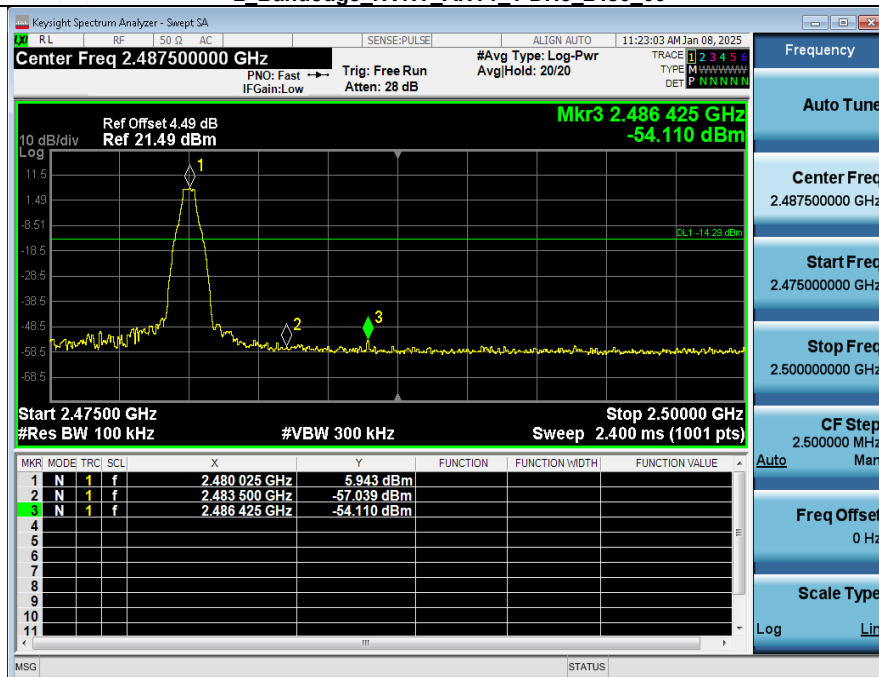


1_Reference_Level_NVNT_ANT1_1-DH5_2480_00



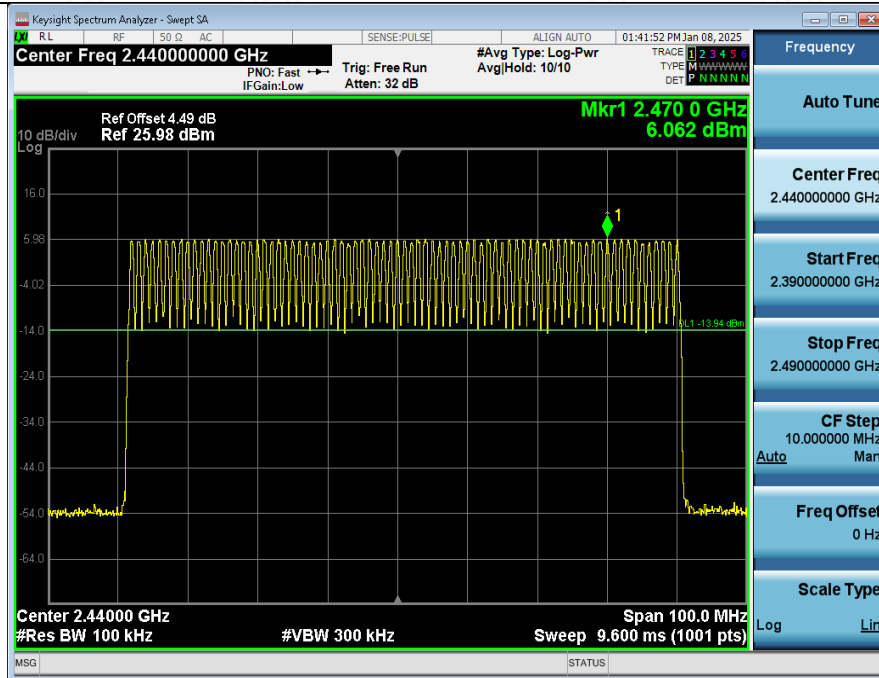


2_Bandedge_NVNT_ANT1_1-DH5_2480_00

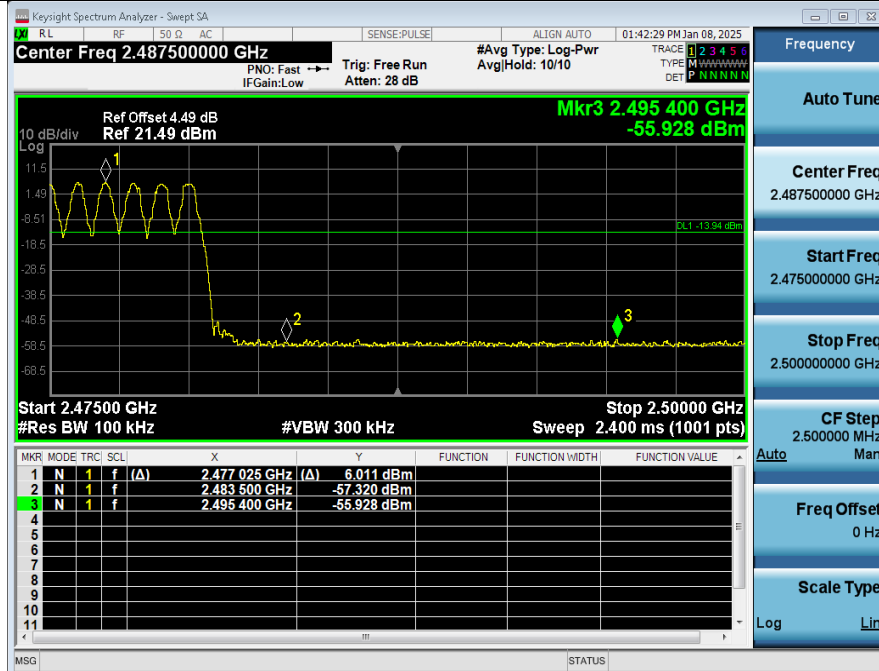


1_Reference_Level_Hopping_NVNT_ANT1_1-DH5_Hopping





2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH5_Hopping

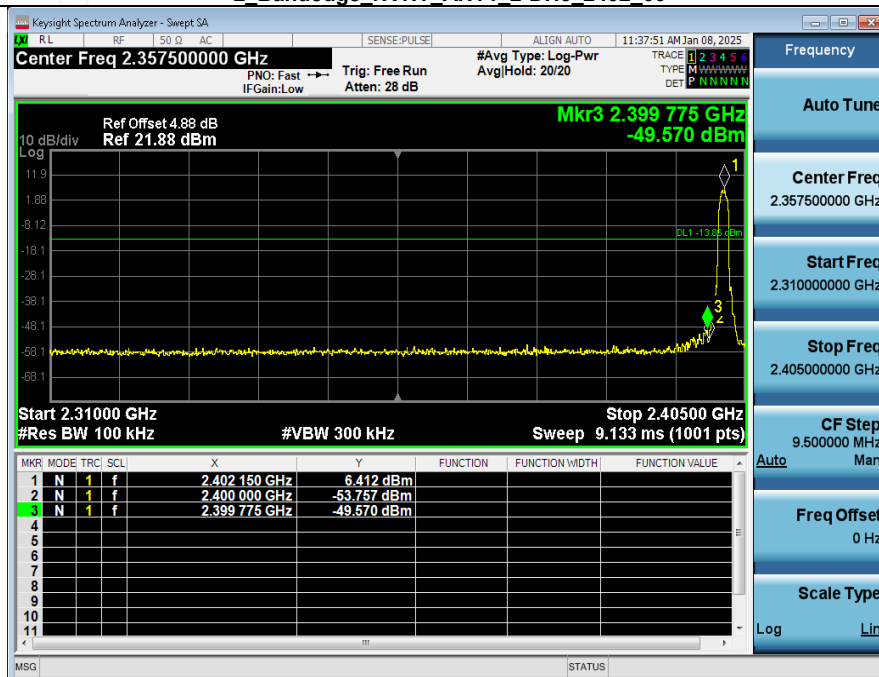


1_Reference_Level_NVNT_ANT1_2-DH5_2402_00



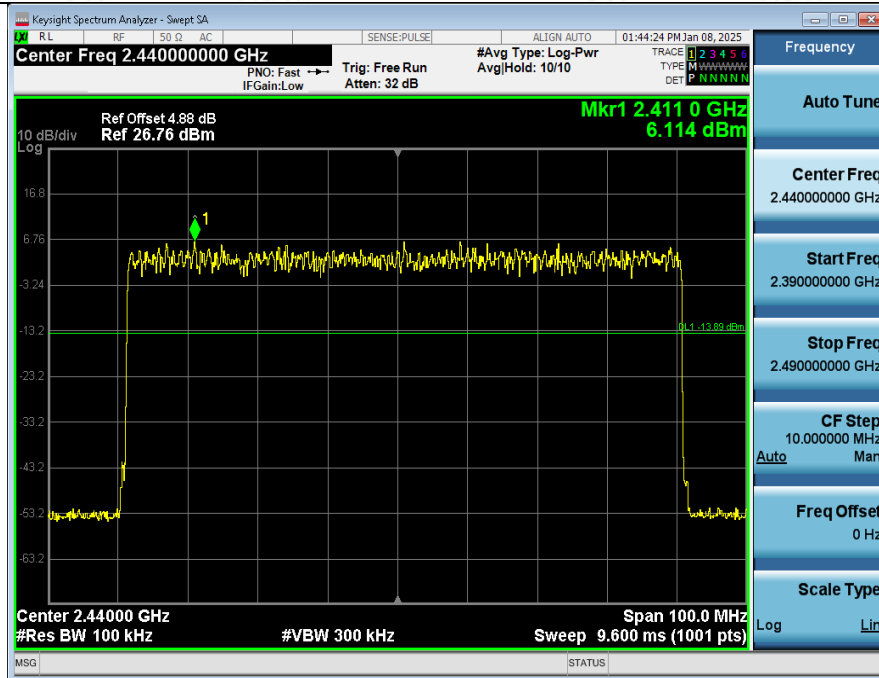


2_Bandedge_NVNT_ANT1_2-DH5_2402_00

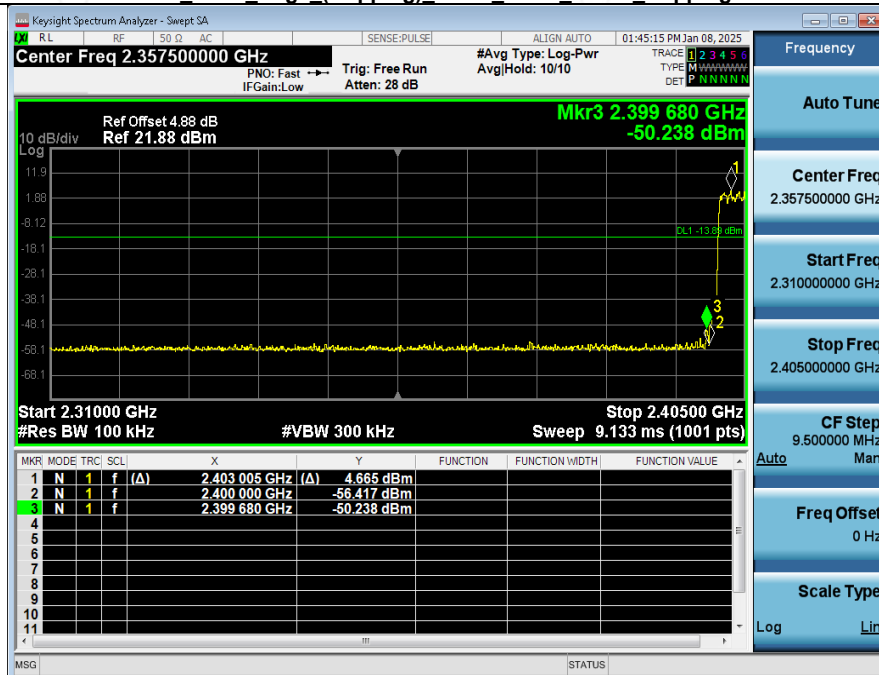


1_Reference_Level_Hopping_NVNT_ANT1_2-DH5_Hopping



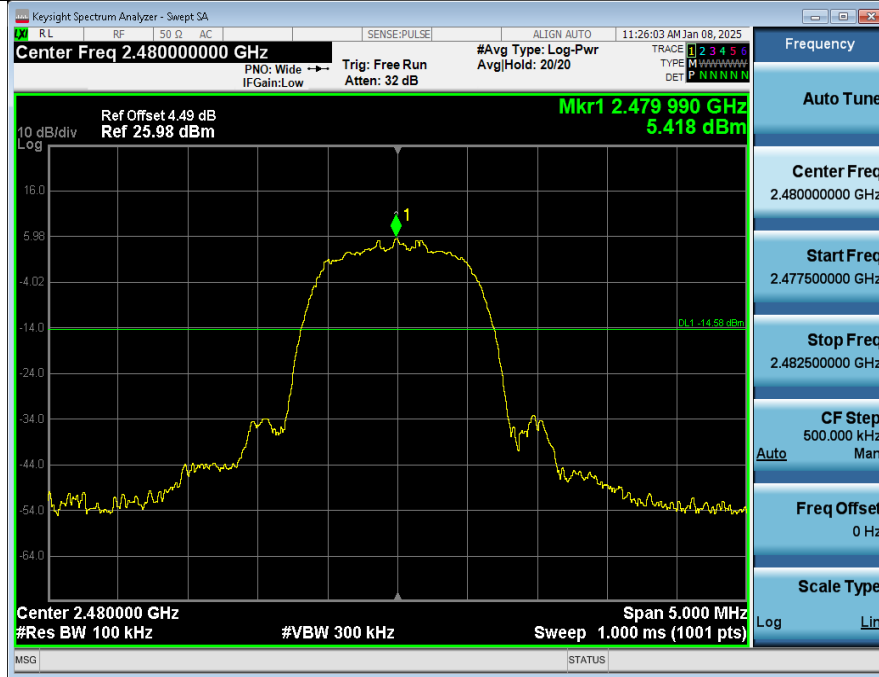


2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH5_Hopping

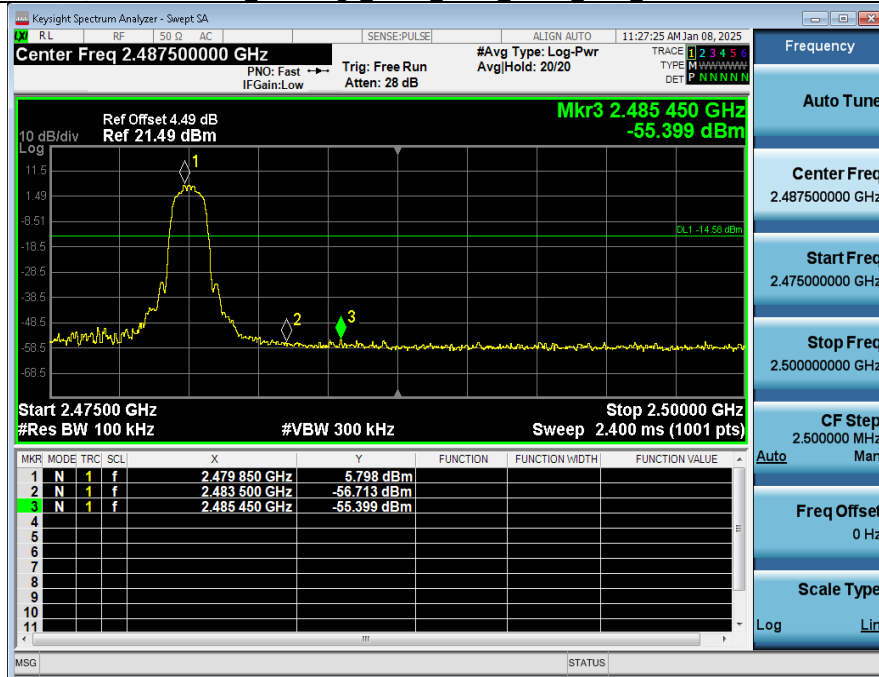


1_Reference_Level_NVNT_ANT1_2-DH5_2480_00



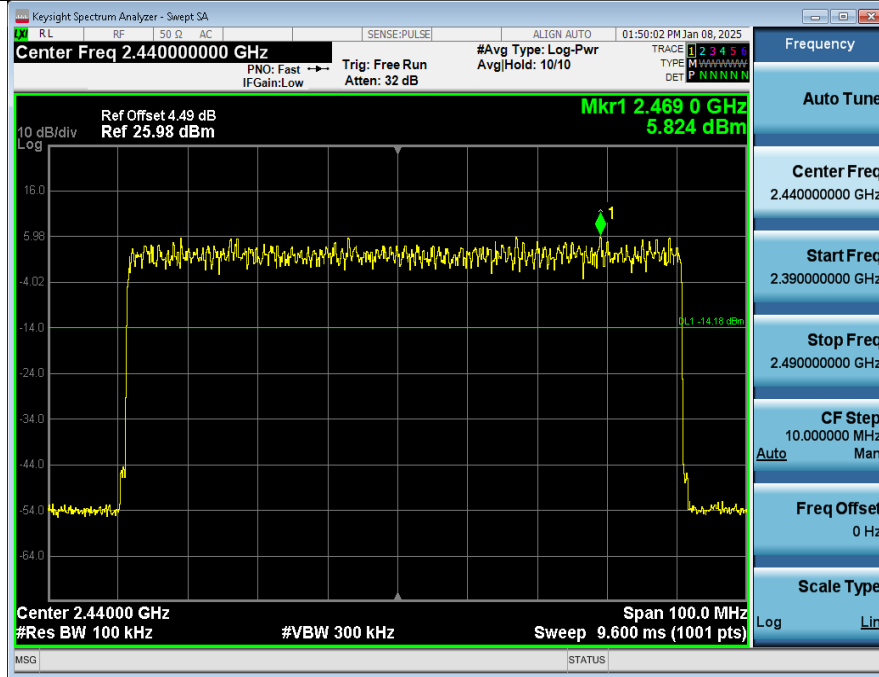


2_Bandedge_NVNT_ANT1_2-DH5_2480_00

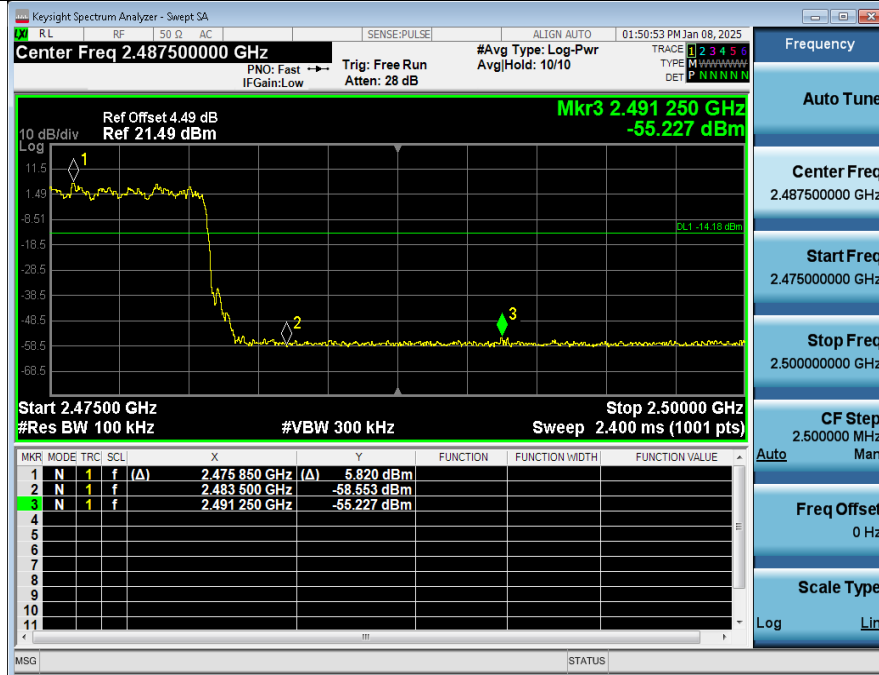


1_Reference_Level_Hopping_NVNT_ANT1_2-DH5_Hopping





2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH5_Hopping

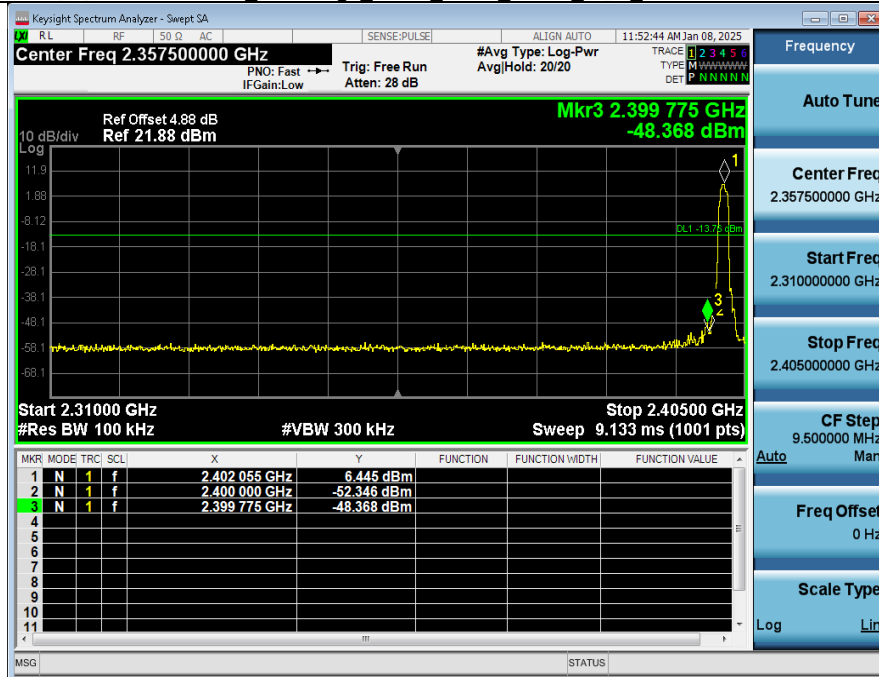


1_Reference_Level_NVNT_ANT1_3-DH5_2402_00



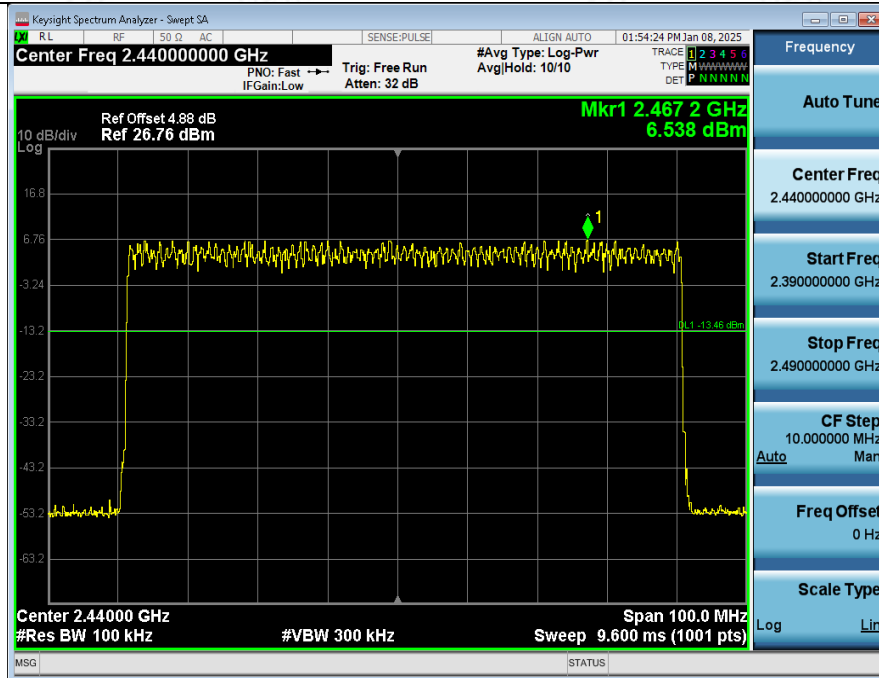


2_Bandedge_NVNT_ANT1_3-DH5_2402_00

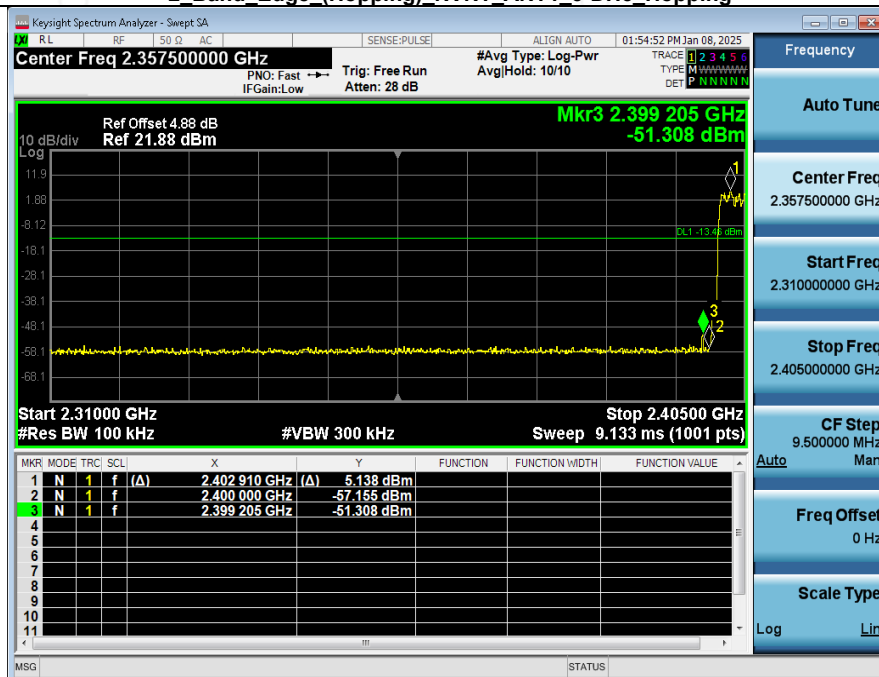


1_Reference_Level_Hopping_NVNT_ANT1_3-DH5_Hopping



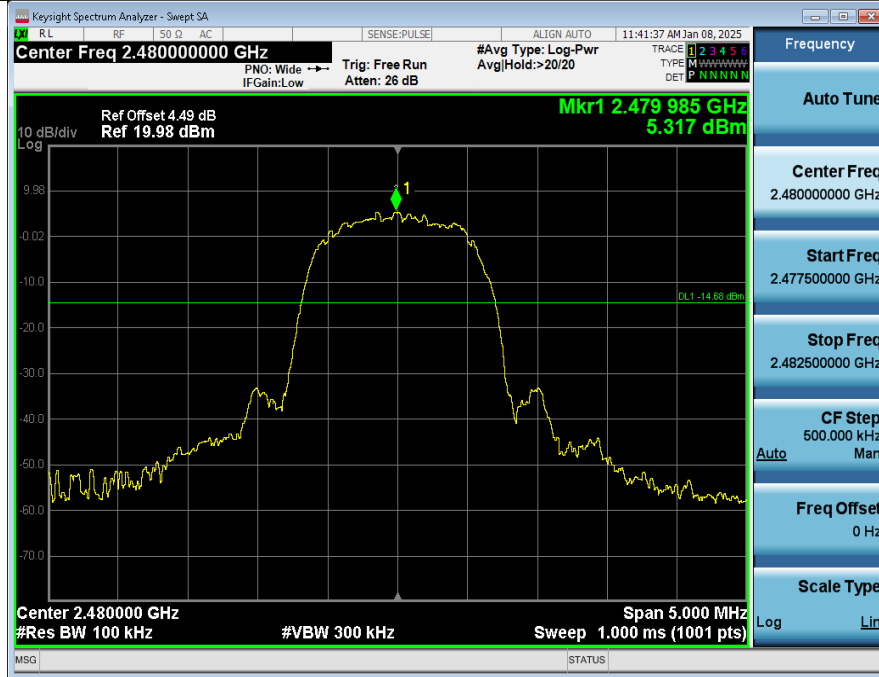


2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH5_Hopping

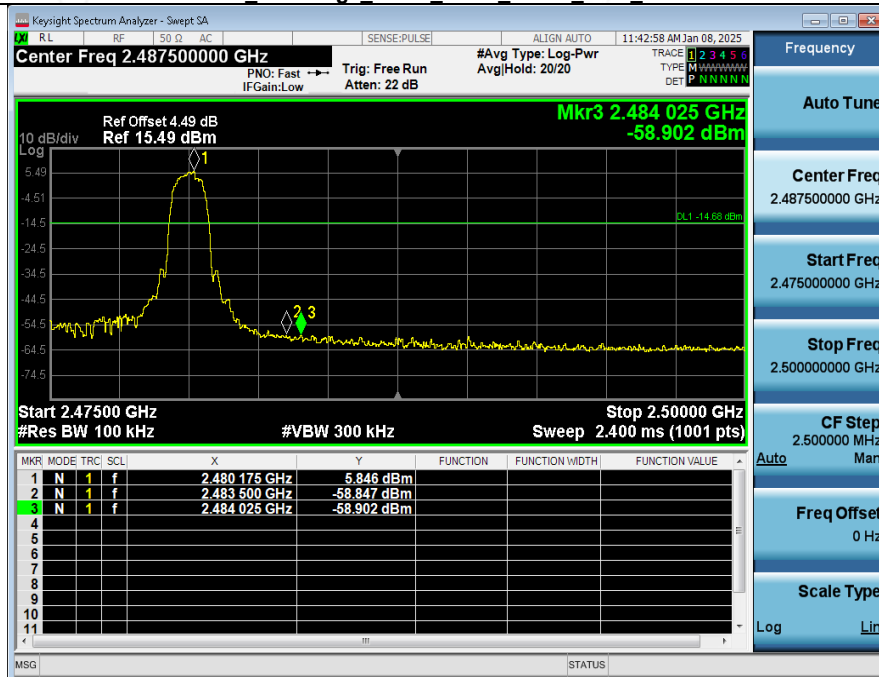


1_Reference_Level_NVNT_ANT1_3-DH5_2480_00



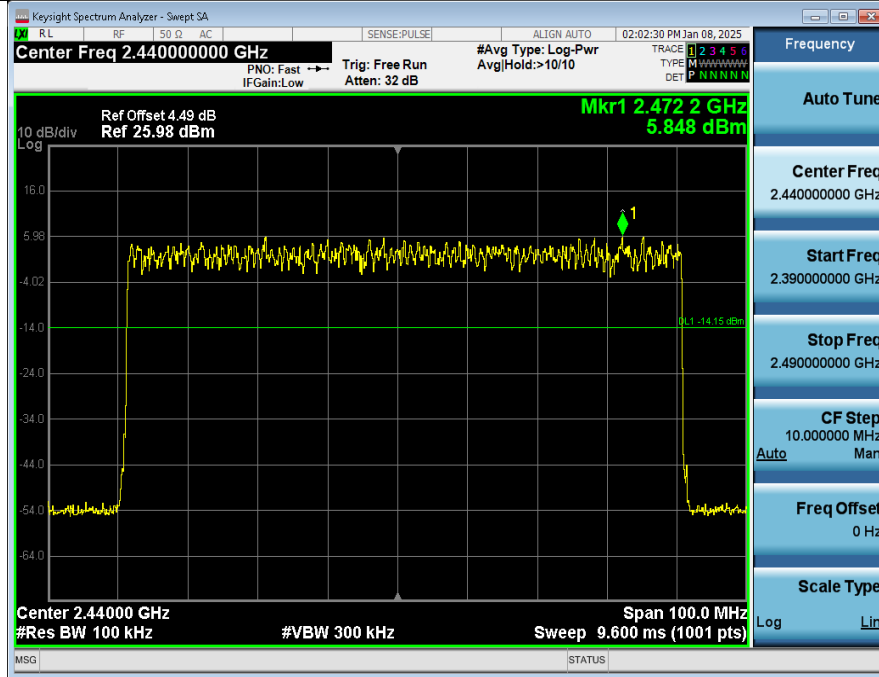


2_Bandedge_NVNT_ANT1_3-DH5_2480_00

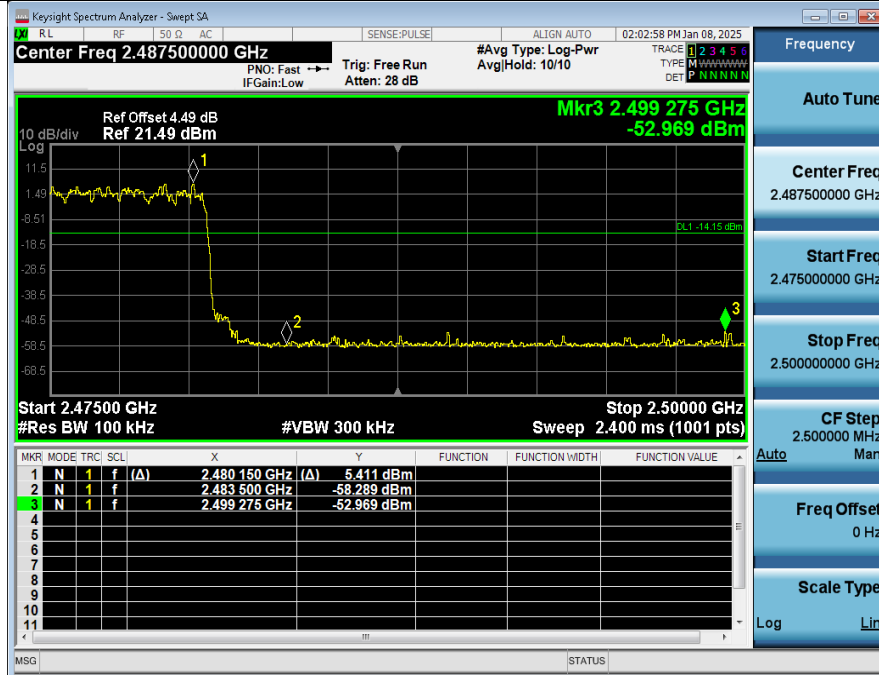


1_Reference_Level_Hopping_NVNT_ANT1_3-DH5_Hopping





2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH5_Hopping



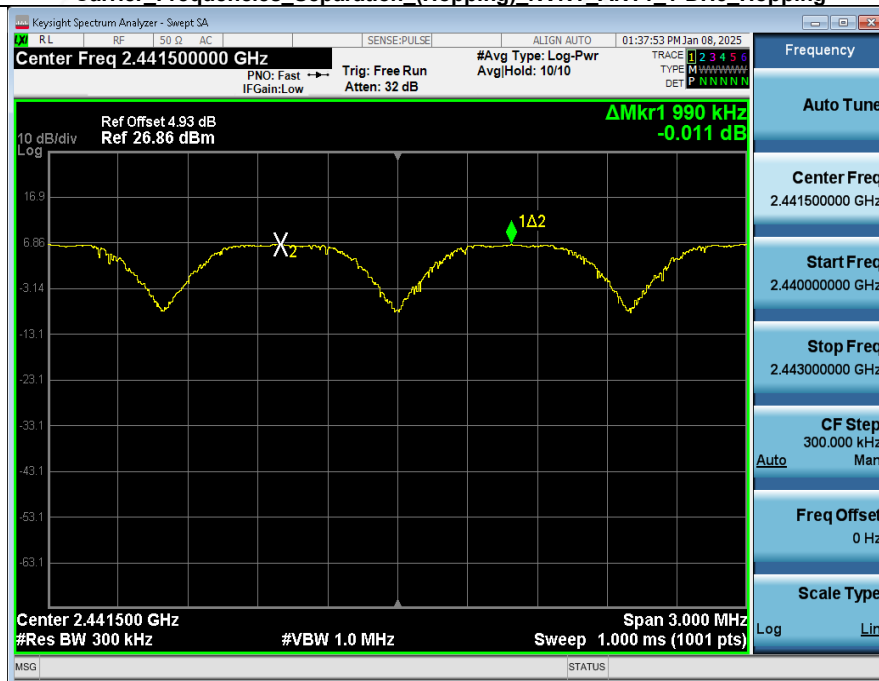
7. Carrier Frequencies Separation (Hopping)

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	2401.999	2402.986	0.99	0.816	Pass
NVNT	ANT1	1-DH5	2441.00	2440.999	2441.989	0.99	0.849	Pass
NVNT	ANT1	1-DH5	2480.00	2479.005	2479.983	0.98	0.844	Pass
NVNT	ANT1	2-DH5	2402.00	2401.837	2402.881	1.04	0.887	Pass
NVNT	ANT1	2-DH5	2441.00	2441.119	2442.118	1.00	0.879	Pass
NVNT	ANT1	2-DH5	2480.00	2478.879	2480.127	1.25	0.880	Pass
NVNT	ANT1	3-DH5	2402.00	2402.113	2403.127	1.01	0.873	Pass
NVNT	ANT1	3-DH5	2441.00	2441.119	2442.151	1.03	0.875	Pass
NVNT	ANT1	3-DH5	2480.00	2478.864	2479.863	1.00	0.871	Pass

Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH5_Hopping

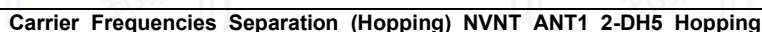
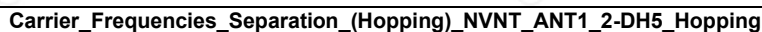


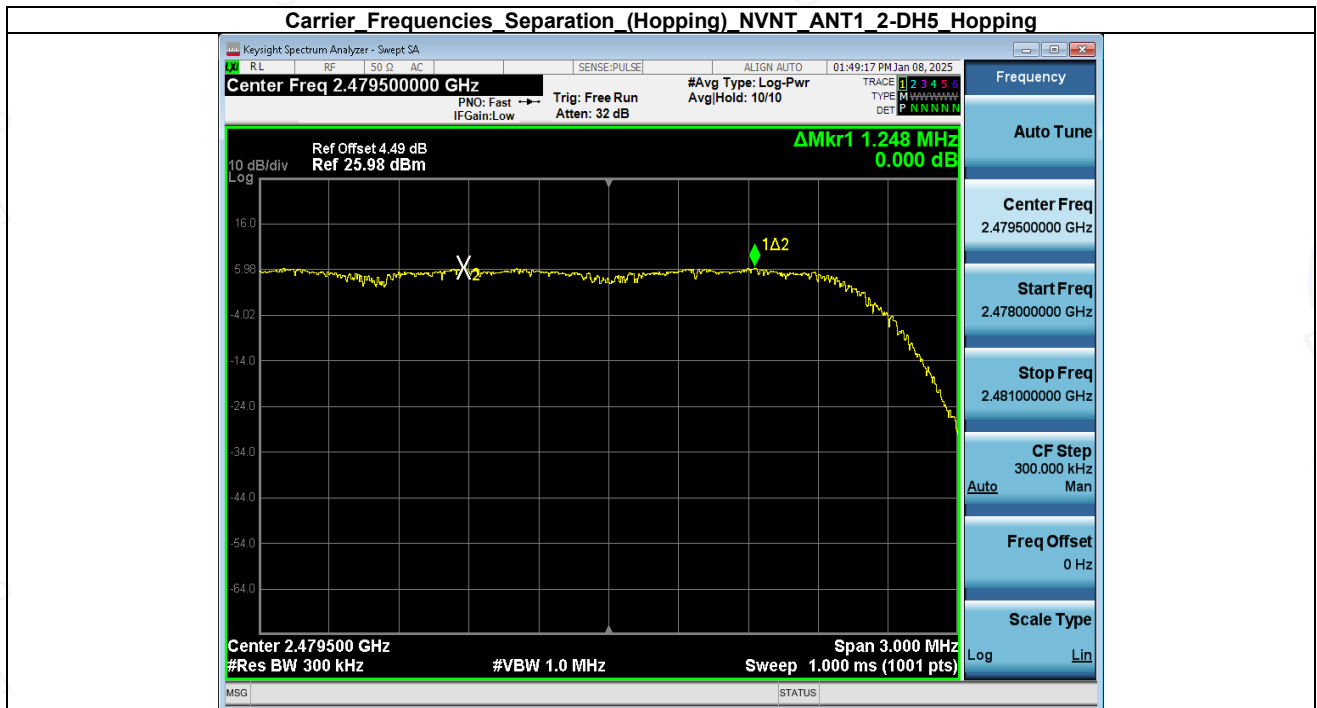
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH5_Hopping



Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH5_Hopping

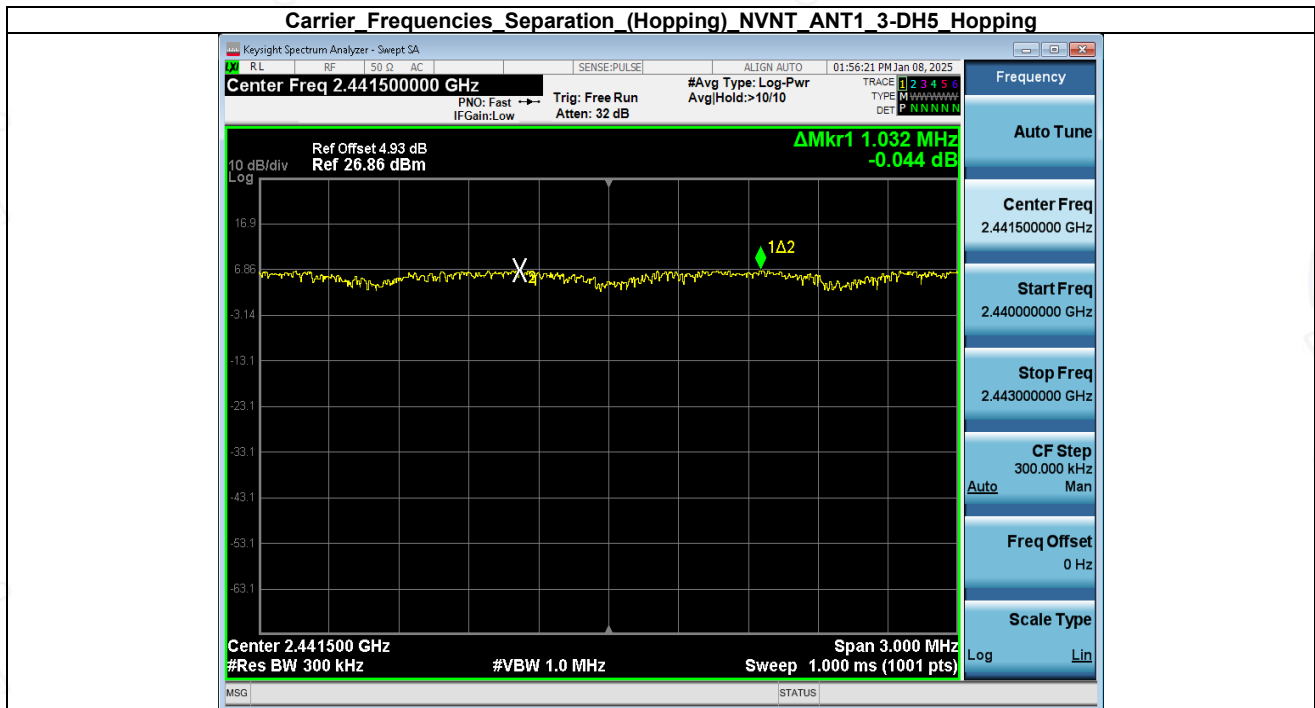






Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH5_Hopping





Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH5_Hopping

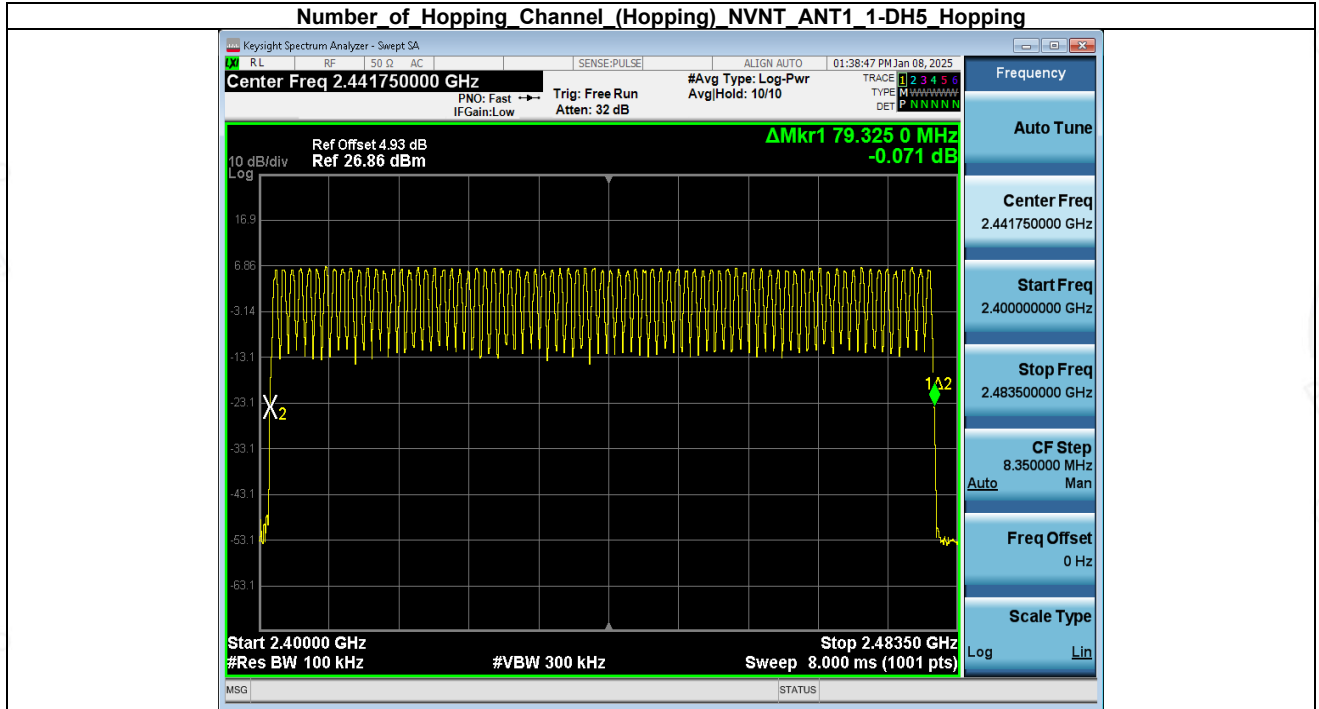




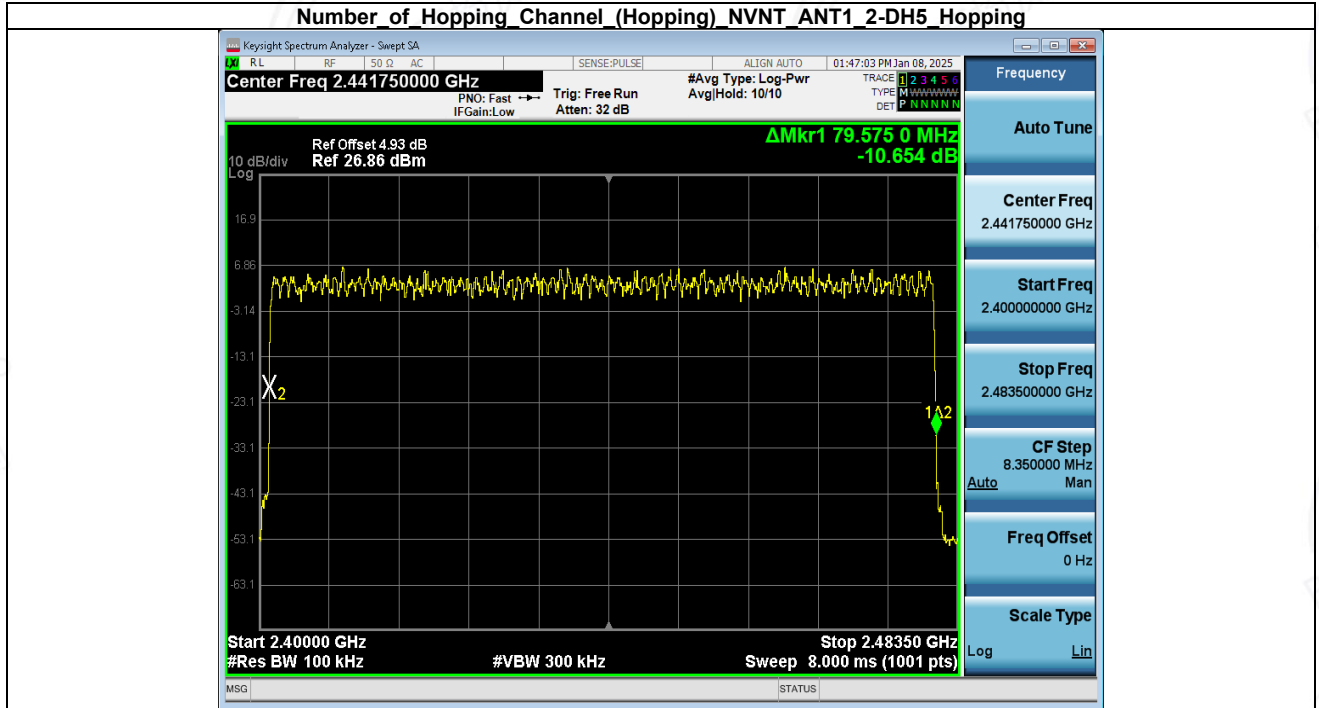
8. Number of Hopping Channel (Hopping)

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

Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_1-DH5_Hopping

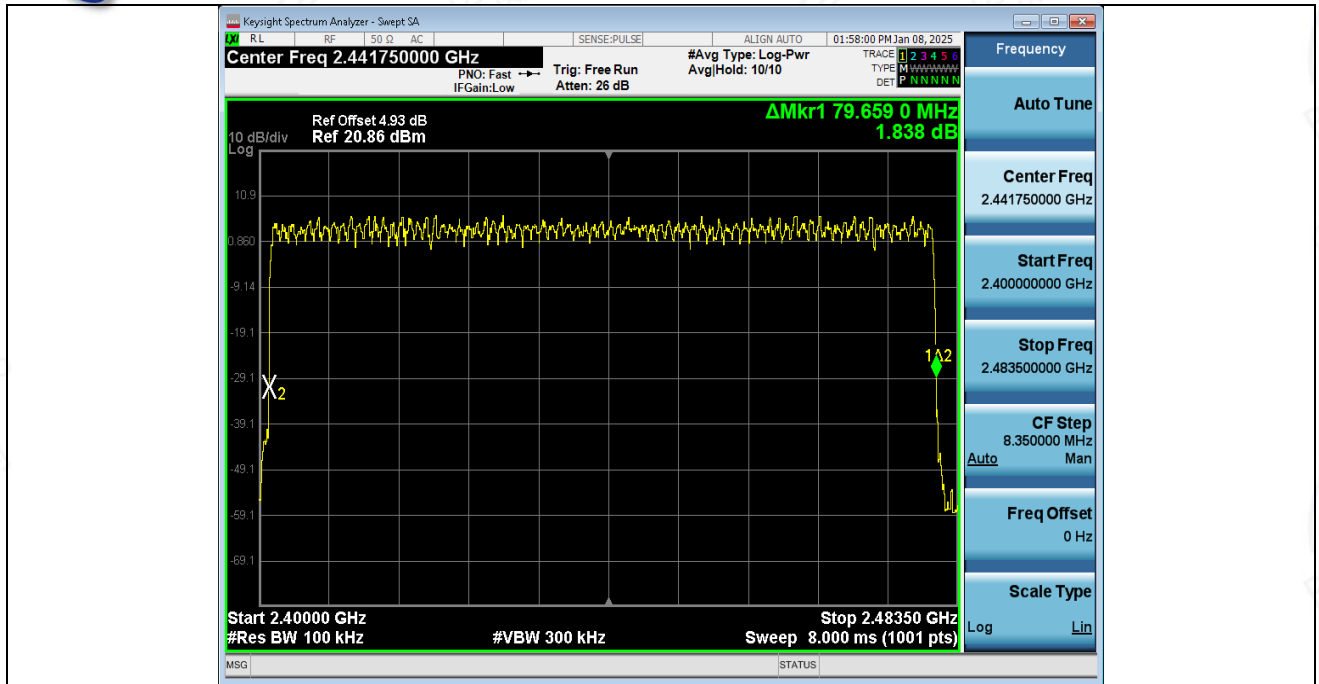


Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_2-DH5_Hopping



Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_3-DH5_Hopping

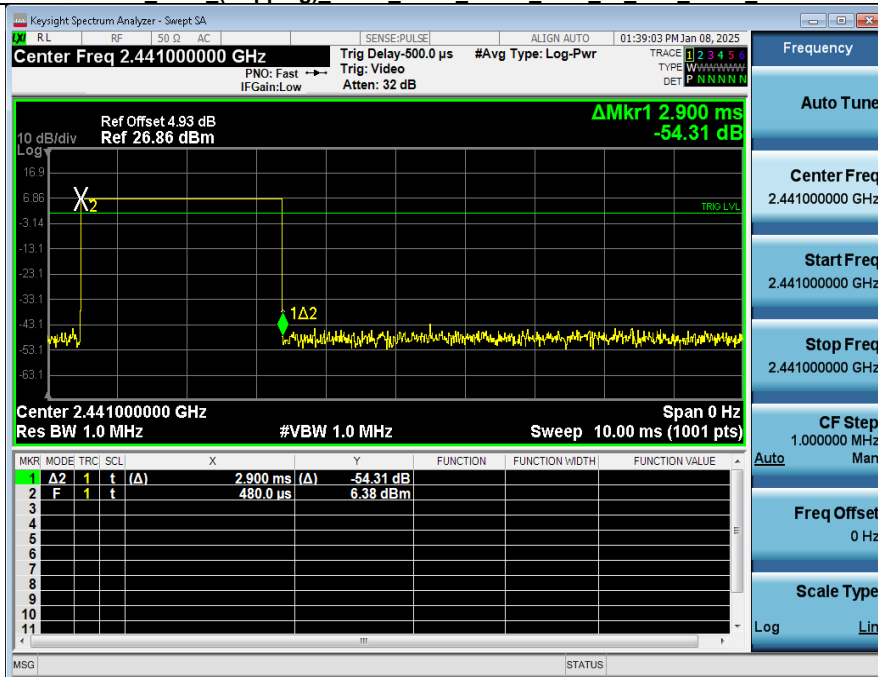




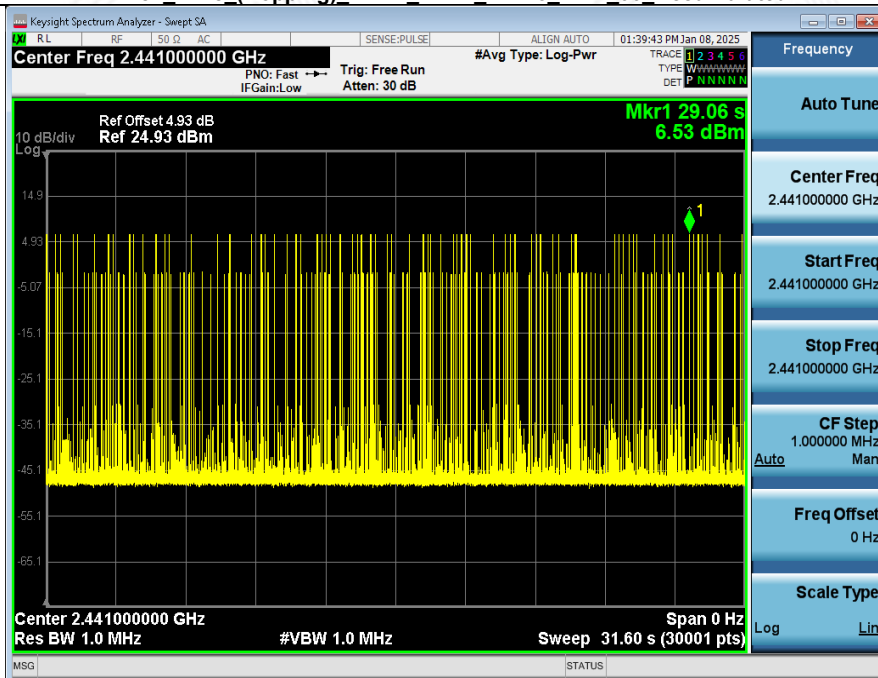
9. Dwell Time (Hopping)

Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH5	2.900	84.00	243.600	0.40	Pass
NVNT	ANT1	2-DH5	2.890	78.00	225.420	0.40	Pass
NVNT	ANT1	3-DH5	2.900	84.00	243.600	0.40	Pass

Dwell_Time (Hopping)_NVNT_ANT1_1-DH5_2441_00_One_Burst_Time

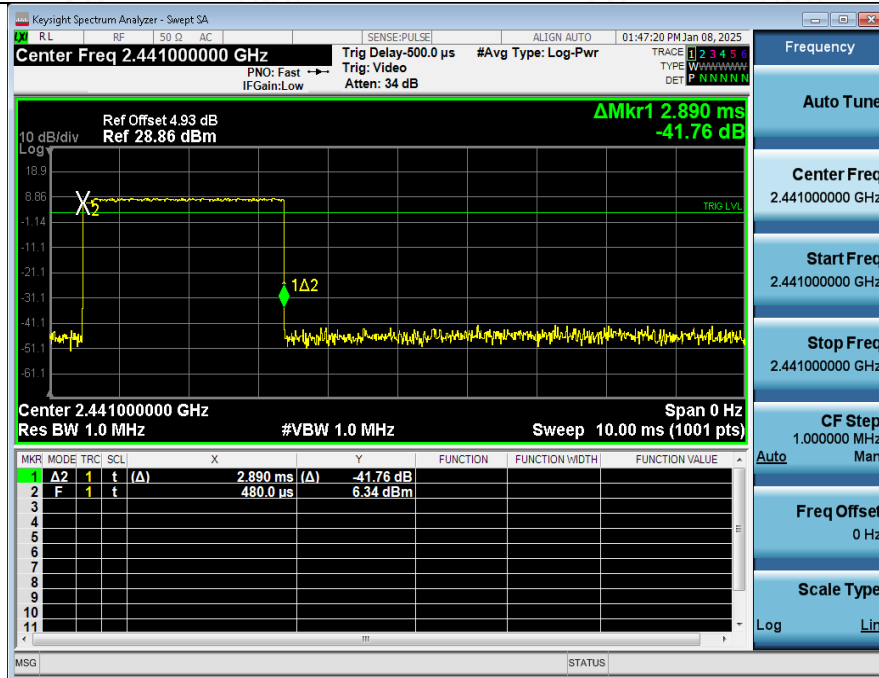


Dwell_Time (Hopping)_NVNT_ANT1_1-DH5_2441_00_Accumulated

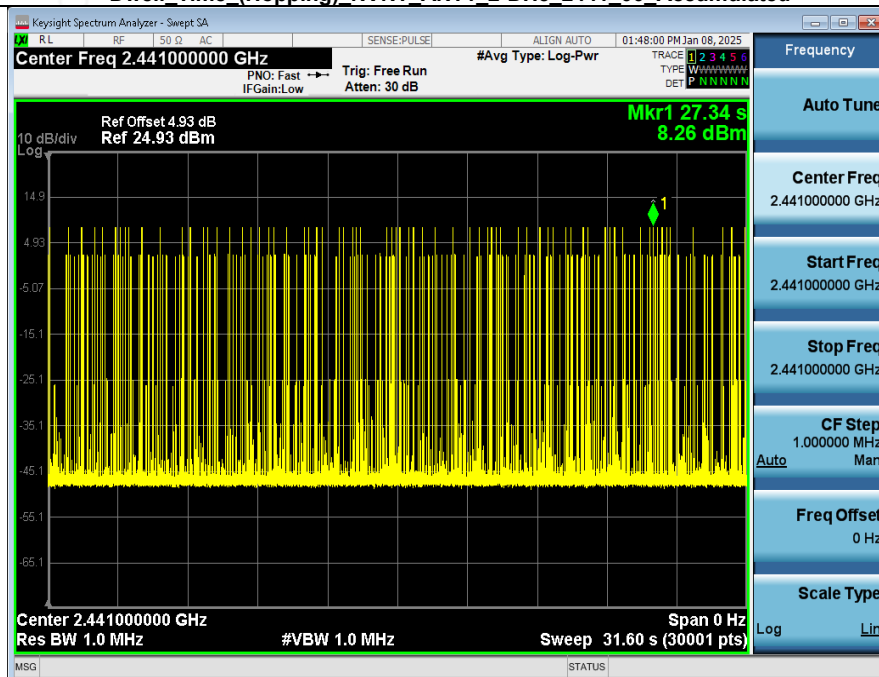


Dwell_Time (Hopping)_NVNT_ANT1_2-DH5_2441_00_One_Burst_Time



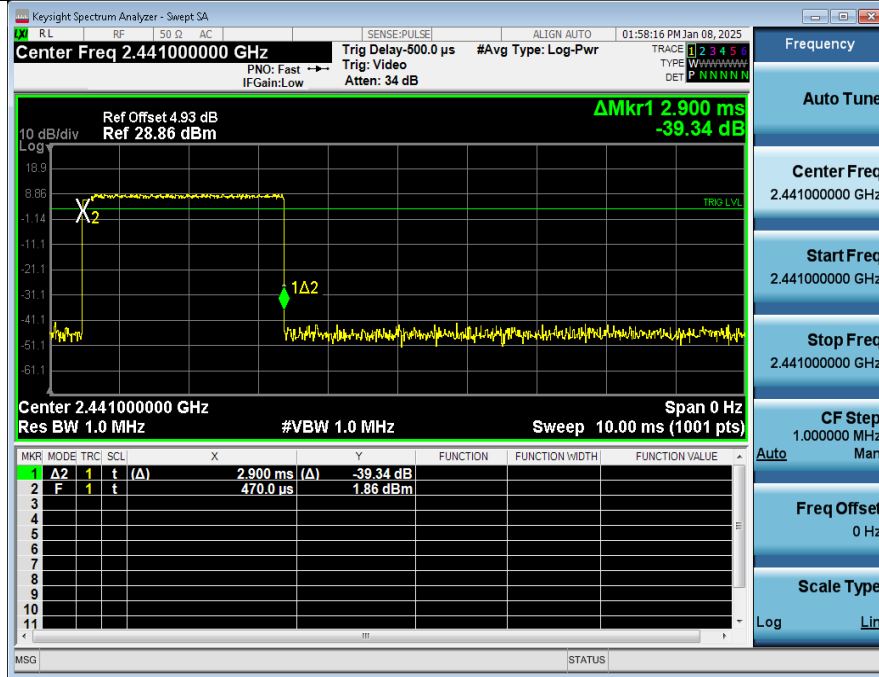


Dwell Time (Hopping) NVNT_ANT1_2-DH5_2441_00_Accumulated



Dwell Time (Hopping) NVNT_ANT1_3-DH5_2441_00_One_Burst_Time





Dwell Time (Hopping) NVNT_ANT1_3-DH5_2441_00 Accumulated

