

Appendix

Test Data

for BTEK241111036A02E16

Start date	2024/12/16	Finish date	2024/12/16
Temperature	18.1℃	Humidity	29%
RF specifications	BT-Module 2 GTV	Test Engineer	Zora



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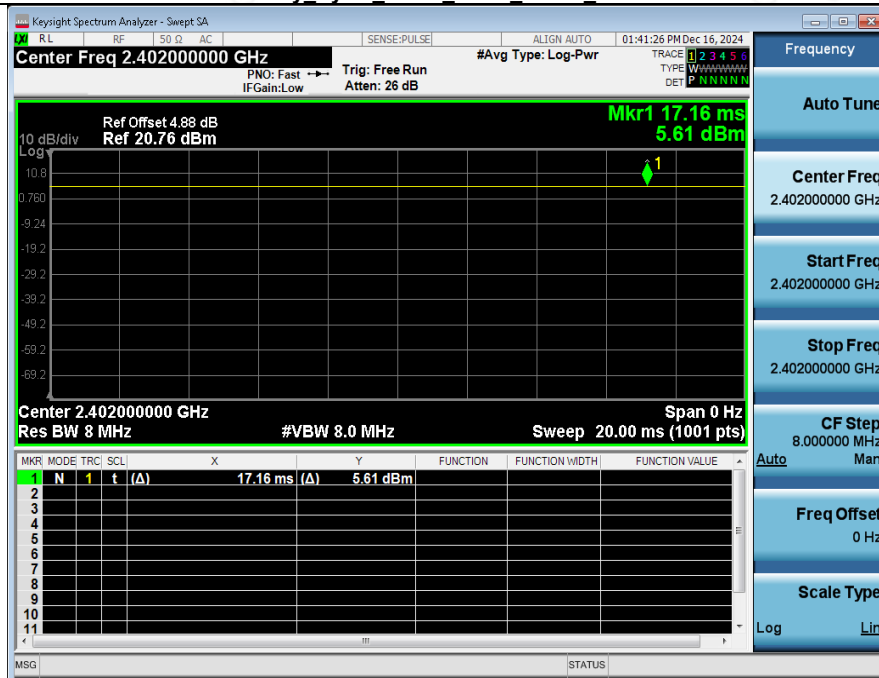
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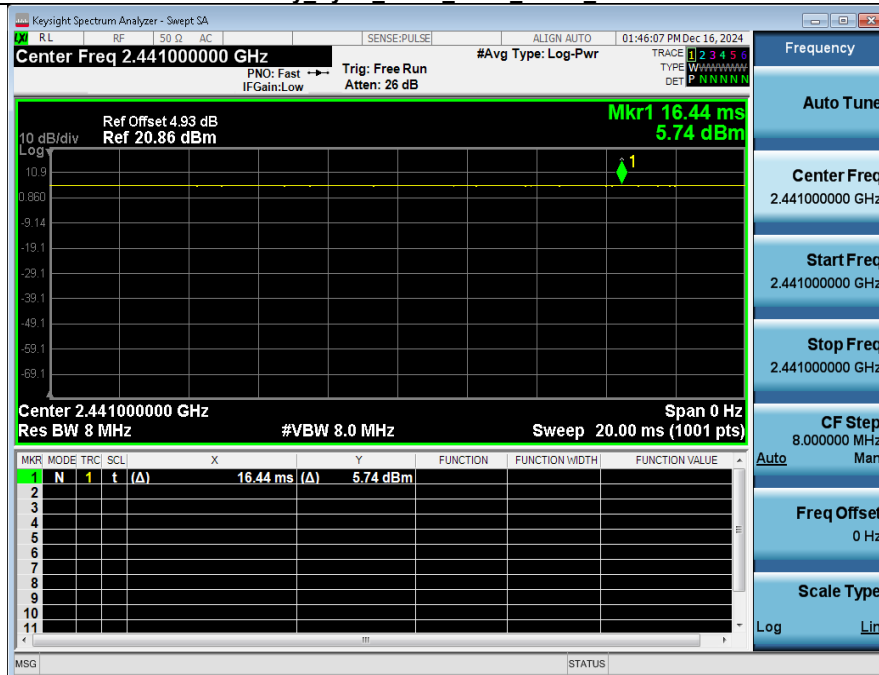
1. Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1-DH5	2402.00	100	0.00
NVNT	ANT1	1-DH5	2441.00	100	0.00
NVNT	ANT1	1-DH5	2480.00	100	0.00
NVNT	ANT1	2-DH5	2402.00	100	0.00
NVNT	ANT1	2-DH5	2441.00	100	0.00
NVNT	ANT1	2-DH5	2480.00	100	0.00
NVNT	ANT1	3-DH5	2402.00	100	0.00
NVNT	ANT1	3-DH5	2441.00	100	0.00
NVNT	ANT1	3-DH5	2480.00	100	0.00

Duty_Cycle_NVNT_ANT1_1-DH5_2402

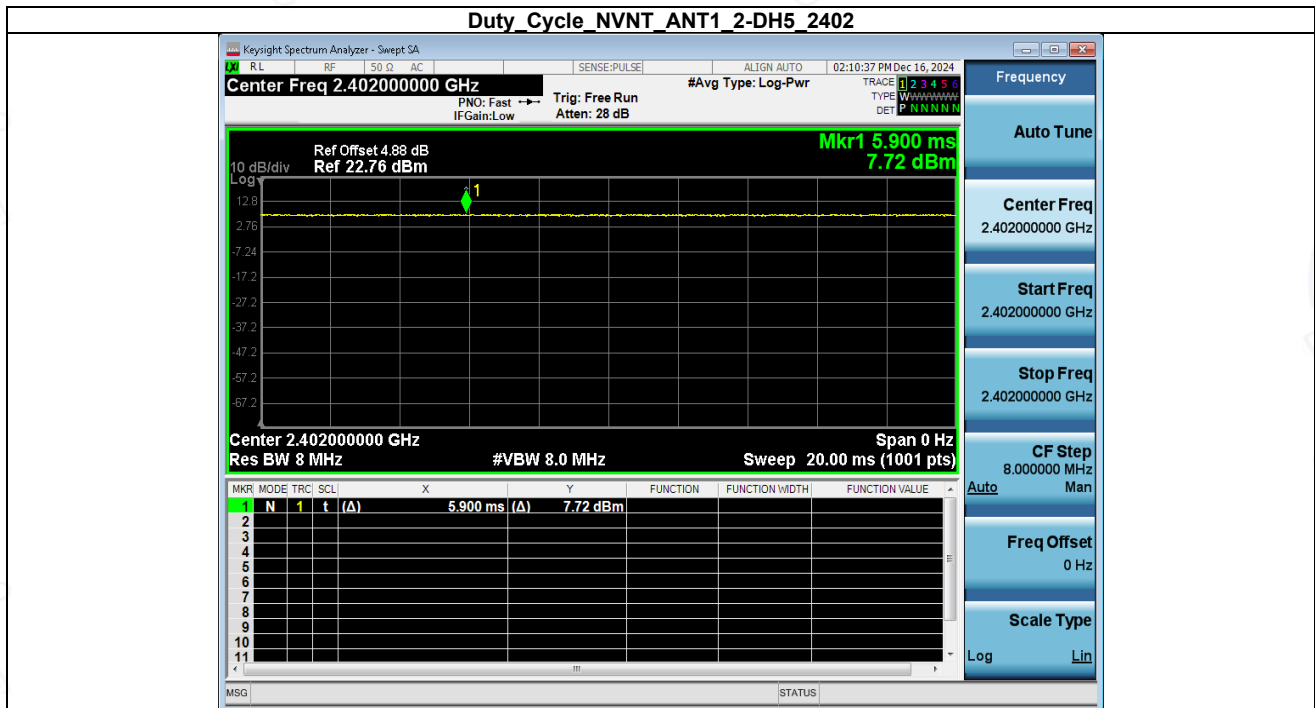
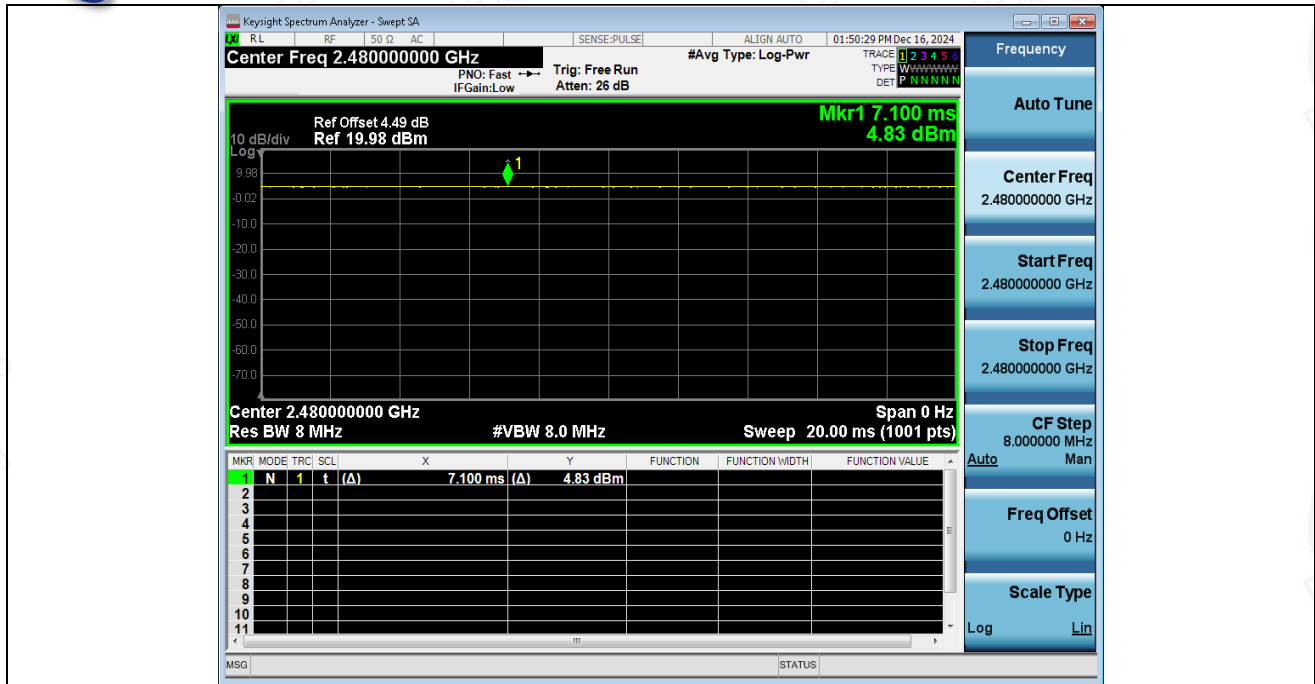


Duty_Cycle_NVNT_ANT1_1-DH5_2441



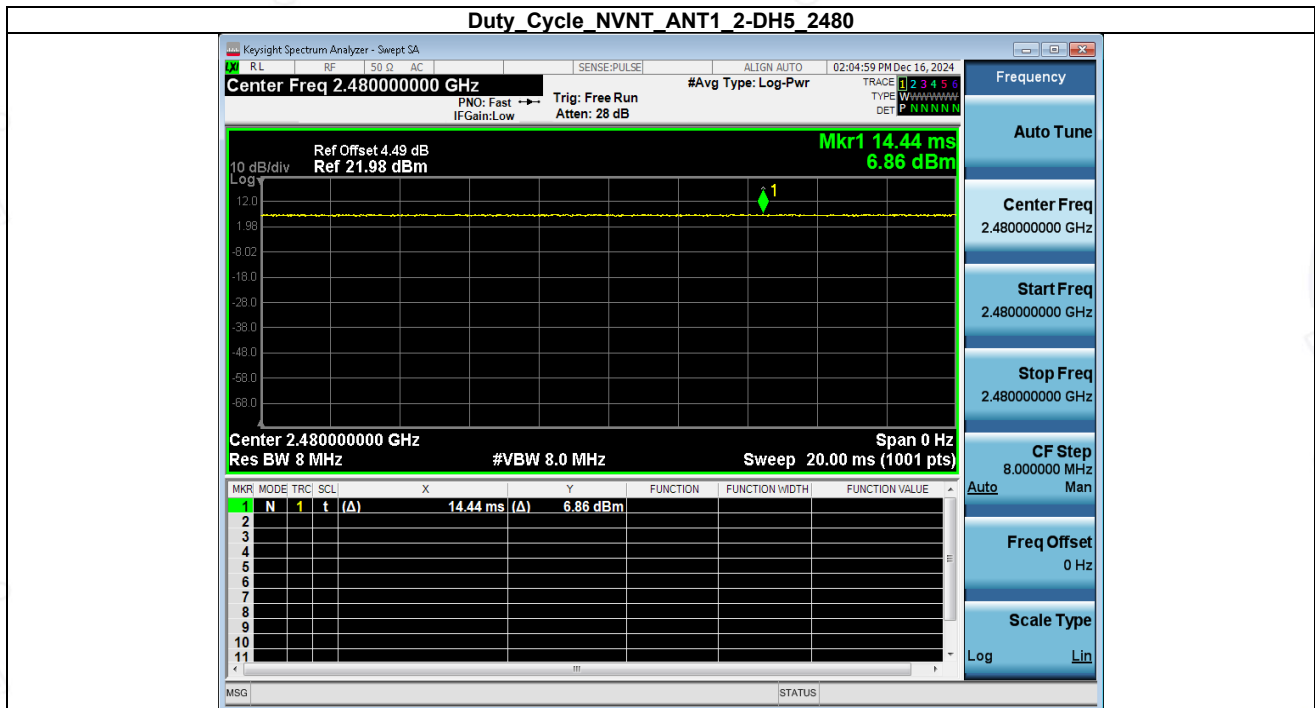
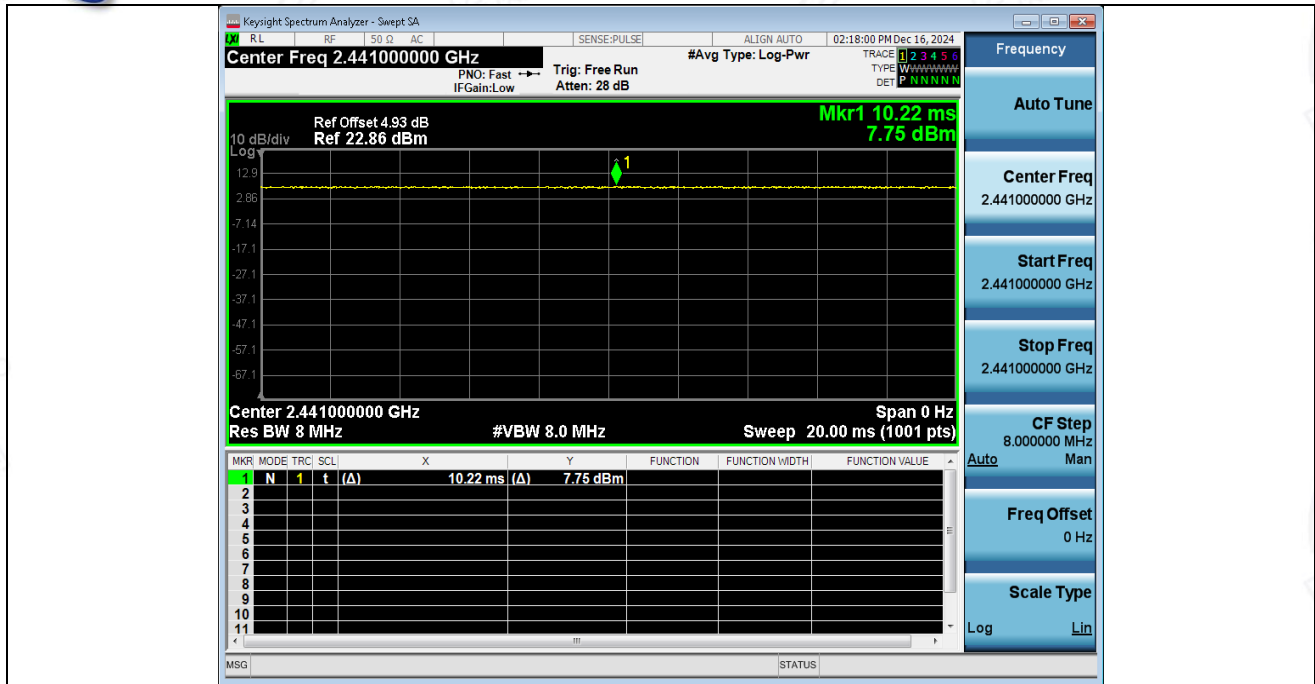
Duty_Cycle_NVNT_ANT1_1-DH5_2480





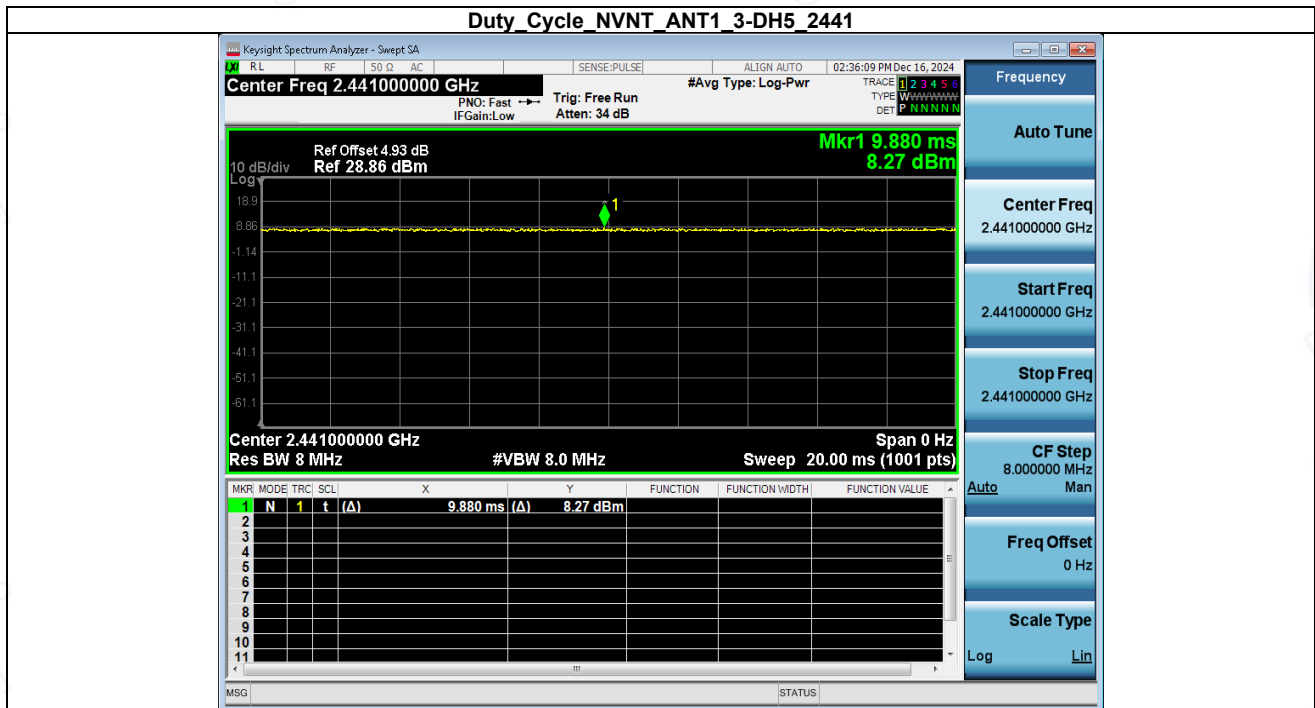
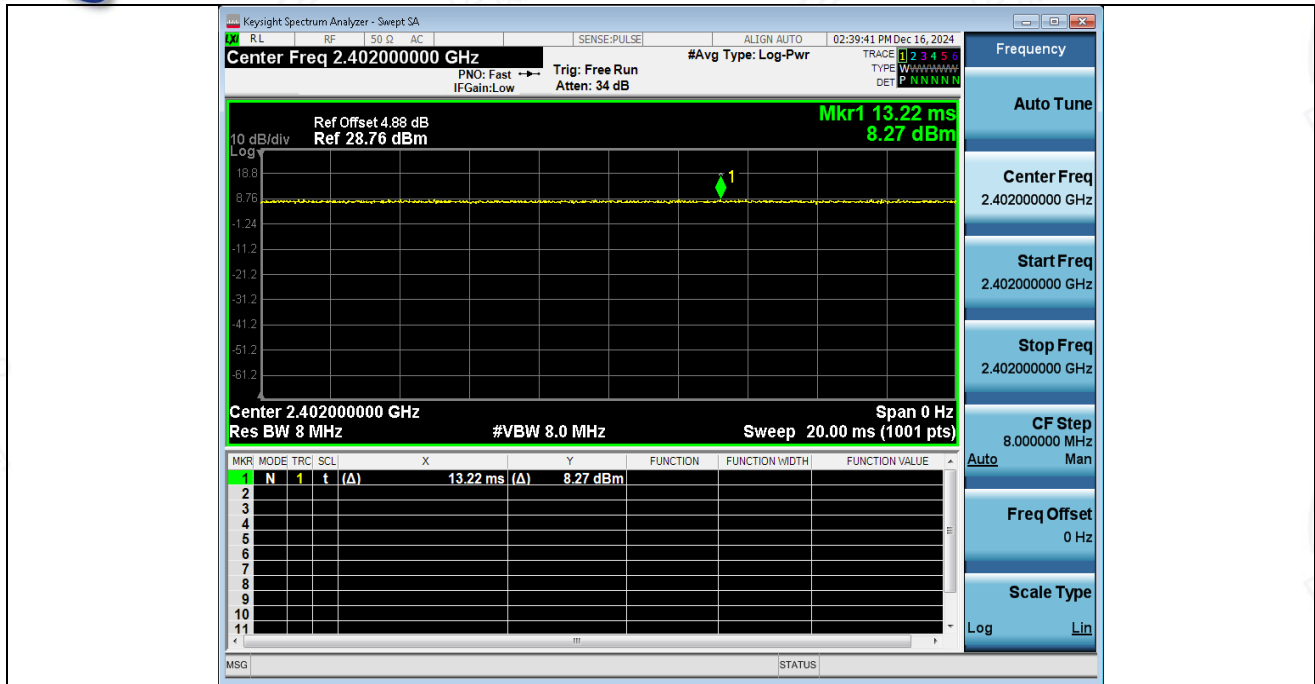
Duty Cycle_NVNT_ANT1_2-DH5_2441





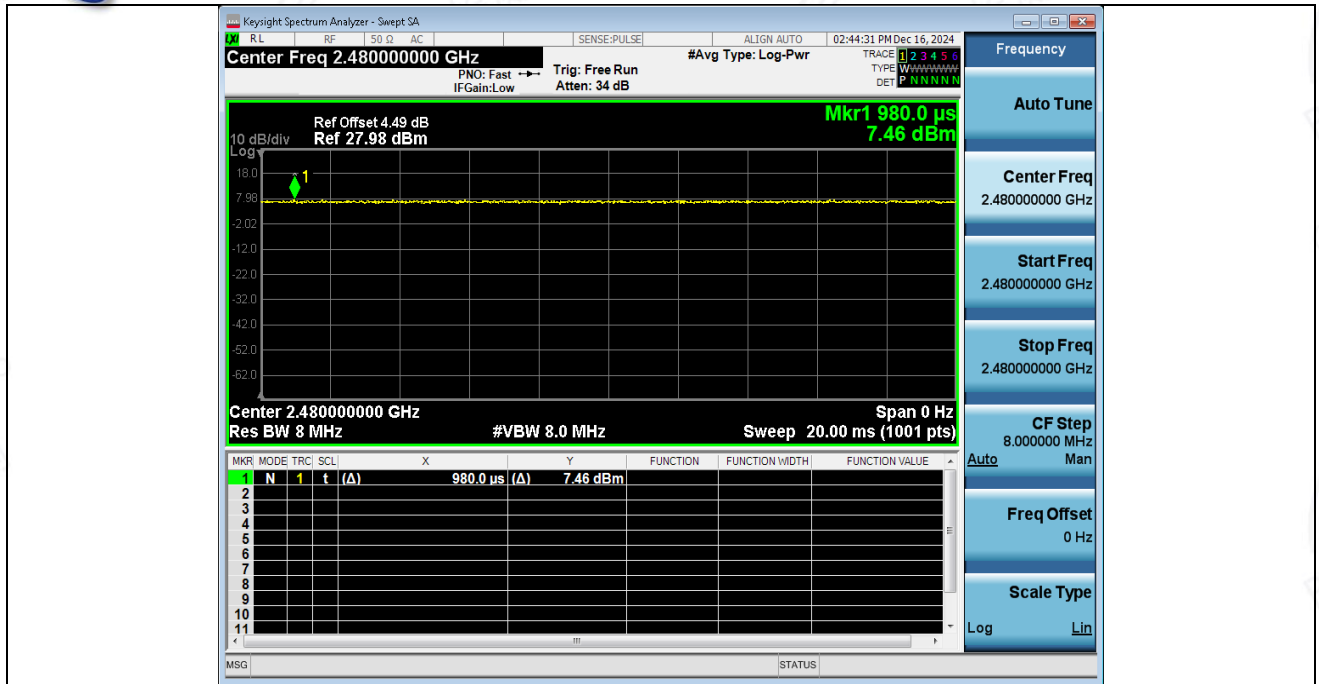
Duty Cycle_NVNT_ANT1_3-DH5_2402





Duty Cycle_NVNT_ANT1_3-DH5_2480

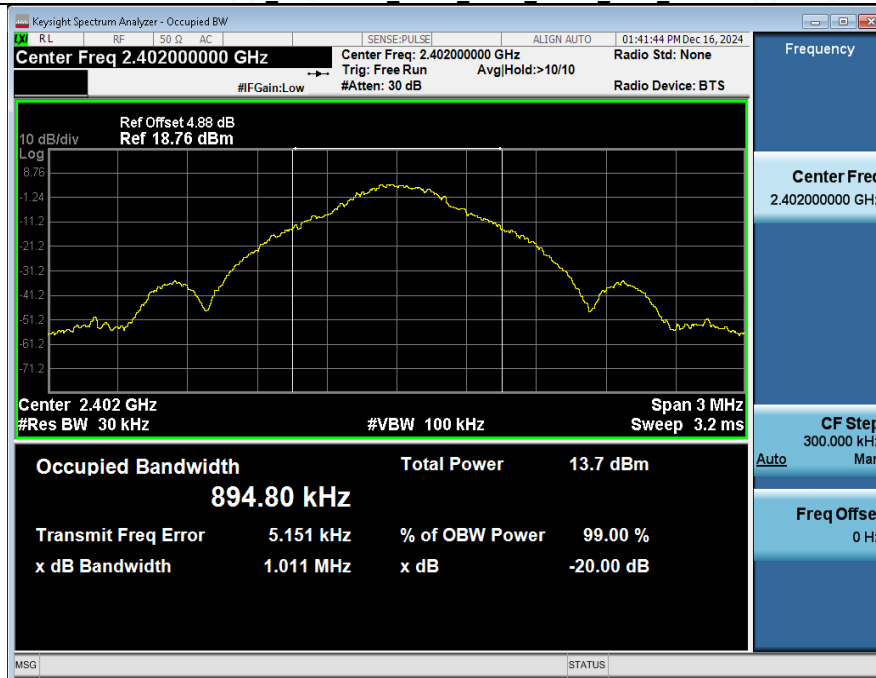




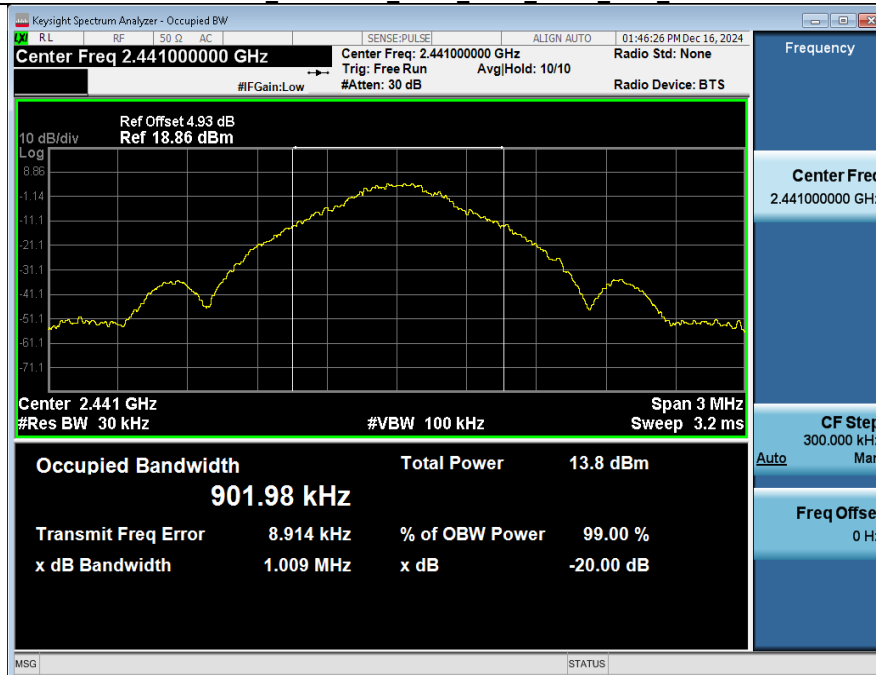
2. -20dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH5	2402.00	1.011	Yes
NVNT	ANT1	1-DH5	2441.00	1.009	Yes
NVNT	ANT1	1-DH5	2480.00	1.019	Yes
NVNT	ANT1	2-DH5	2402.00	1.357	Yes
NVNT	ANT1	2-DH5	2441.00	1.360	Yes
NVNT	ANT1	2-DH5	2480.00	1.352	Yes
NVNT	ANT1	3-DH5	2402.00	1.357	Yes
NVNT	ANT1	3-DH5	2441.00	1.366	Yes
NVNT	ANT1	3-DH5	2480.00	1.356	Yes

-20dB Bandwidth NVNT ANT1 1-DH5 2402_00

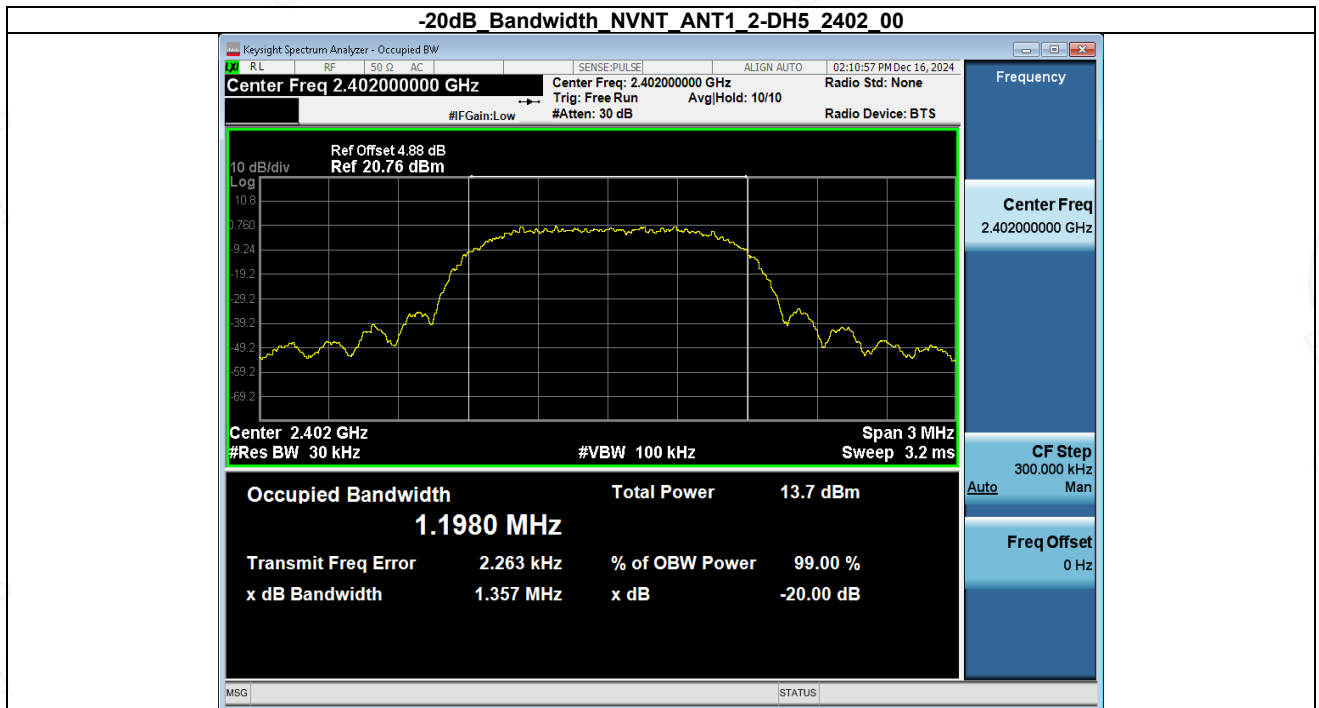


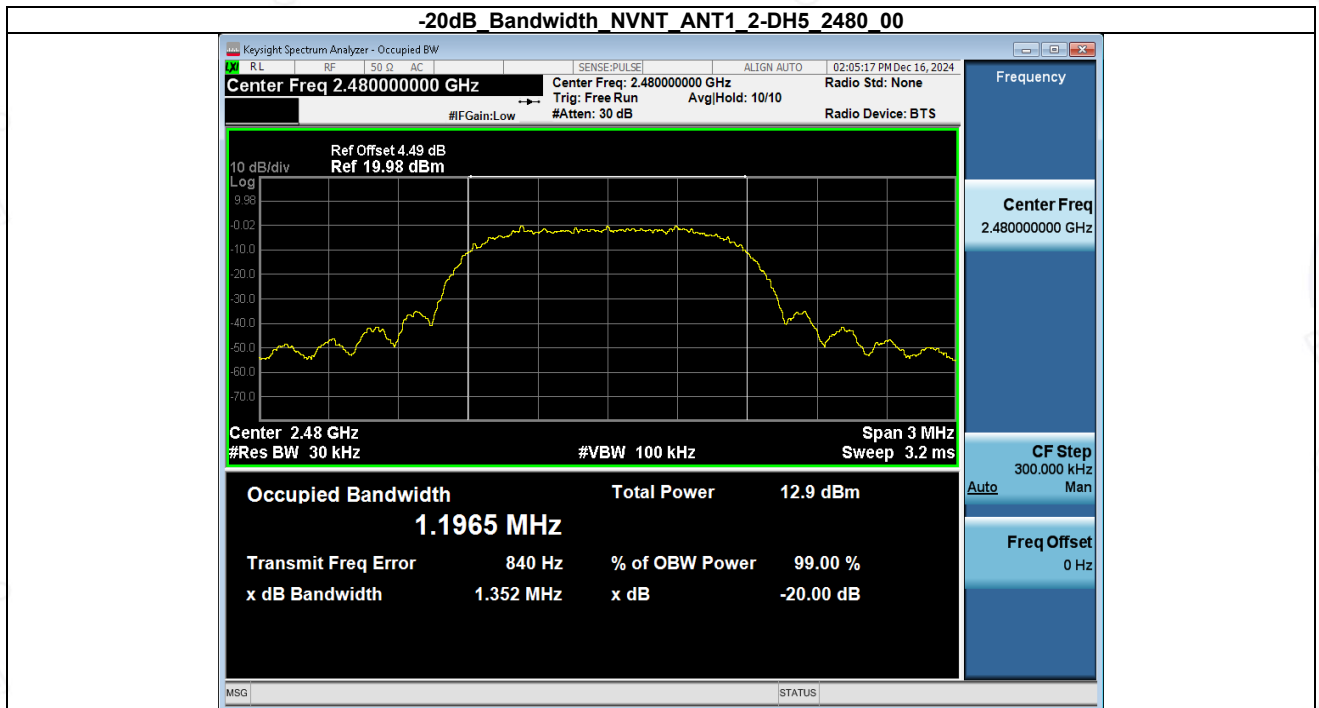
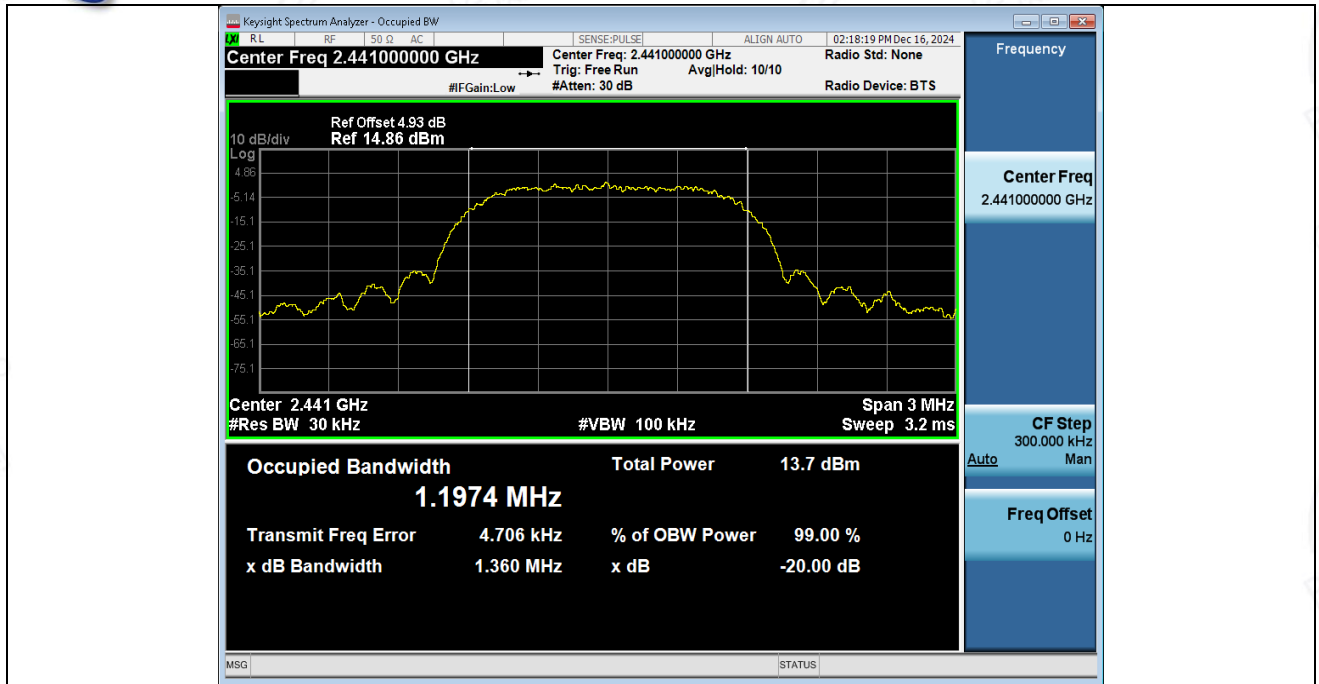
-20dB Bandwidth NVNT ANT1 1-DH5 2441_00

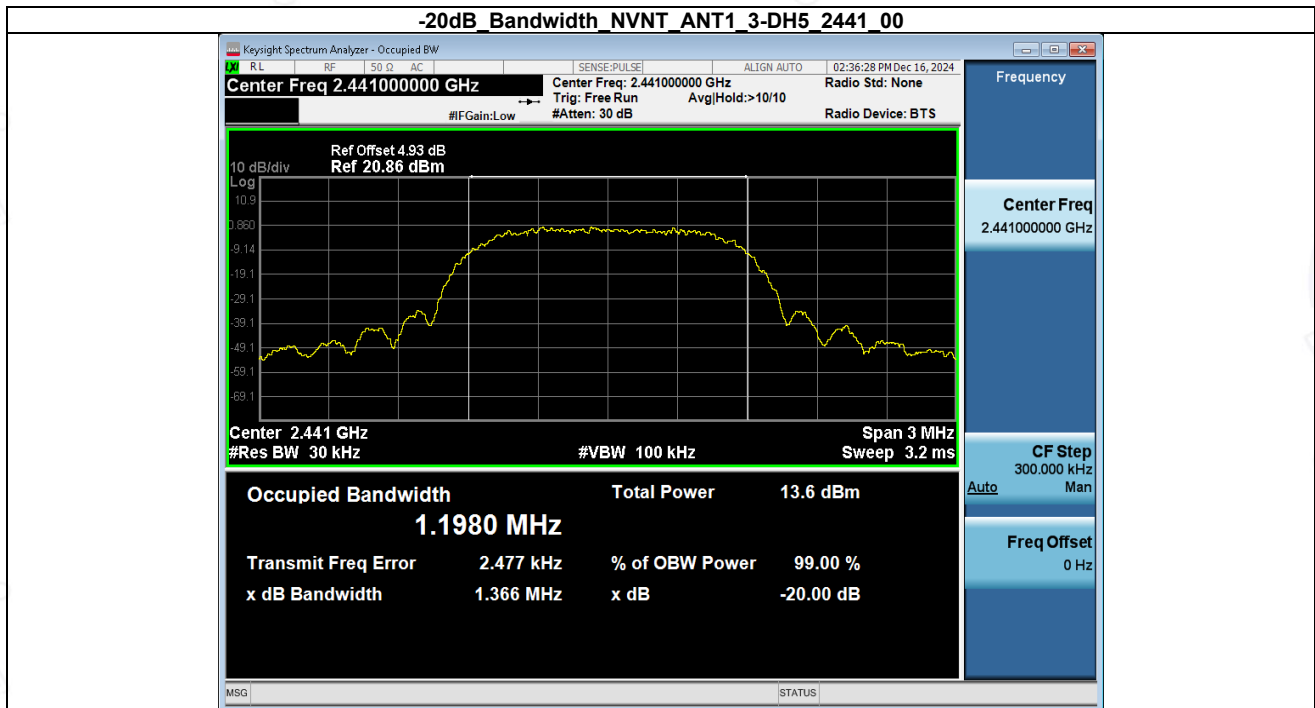
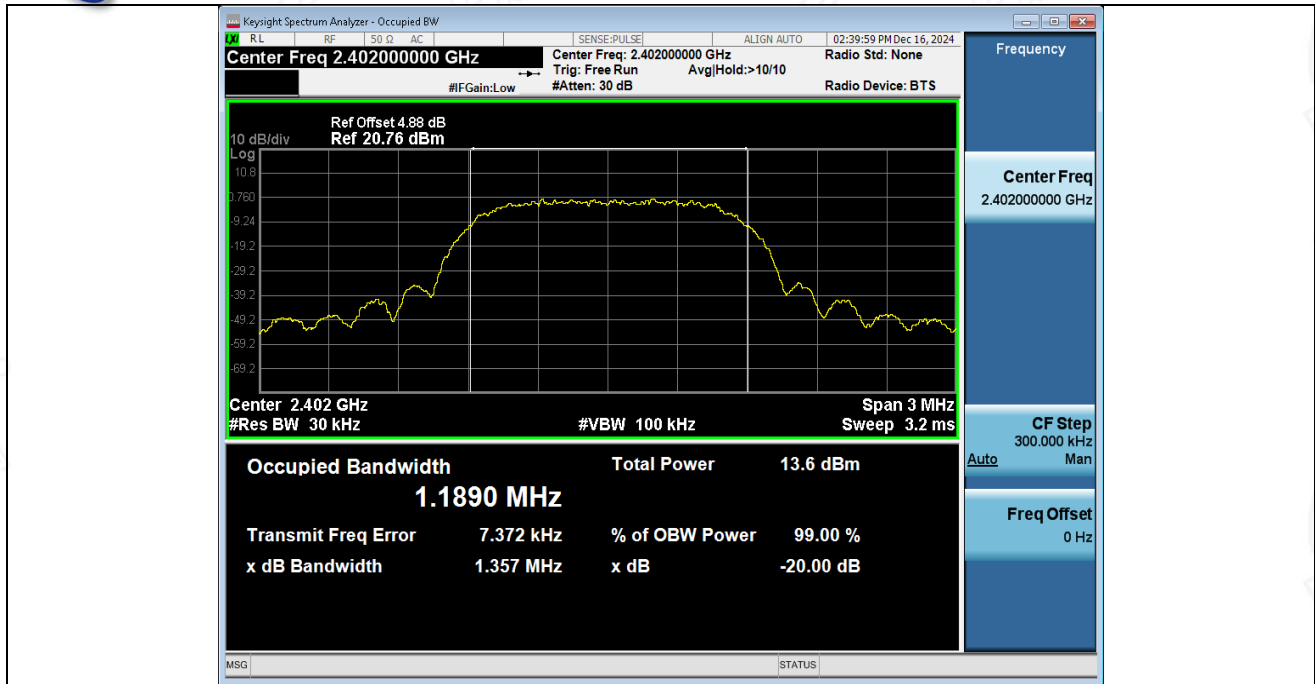


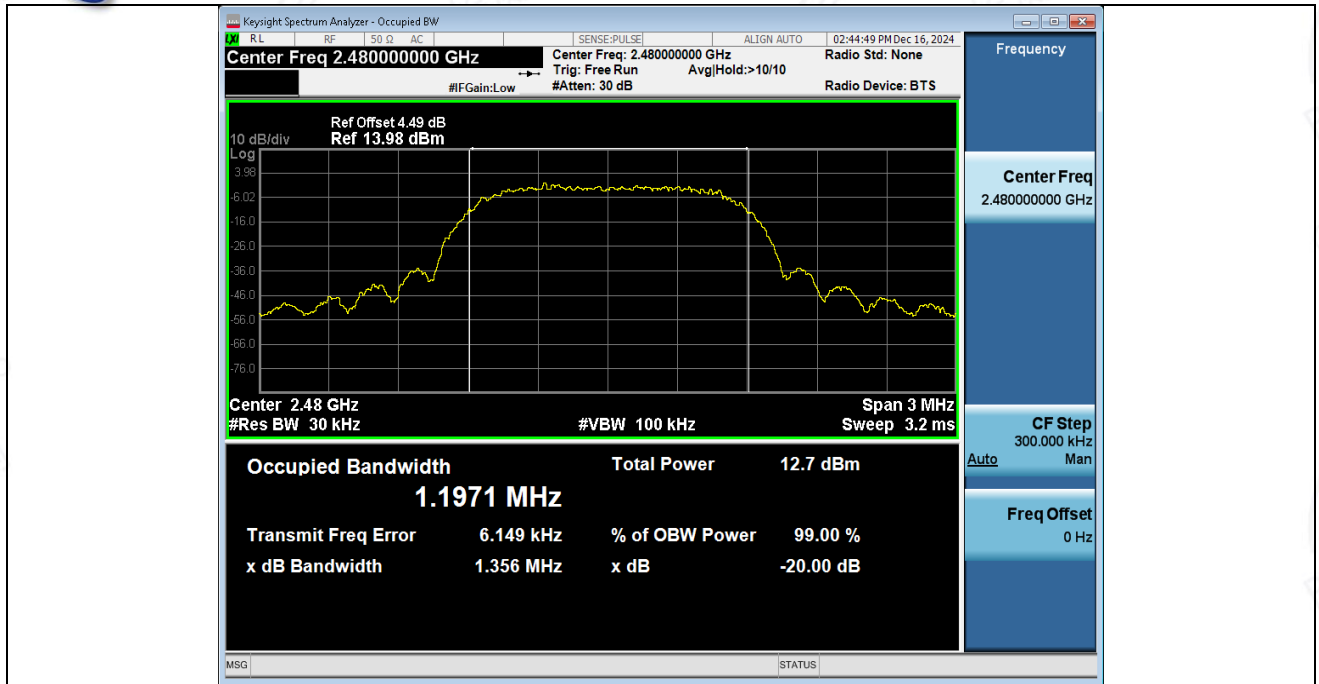
-20dB Bandwidth NVNT ANT1 1-DH5 2480_00











3. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	1-DH5	2402.00	0.898
NVNT	ANT1	1-DH5	2441.00	0.898
NVNT	ANT1	1-DH5	2480.00	0.893
NVNT	ANT1	2-DH5	2402.00	1.193
NVNT	ANT1	2-DH5	2441.00	1.192
NVNT	ANT1	2-DH5	2480.00	1.200
NVNT	ANT1	3-DH5	2402.00	1.188
NVNT	ANT1	3-DH5	2441.00	1.190
NVNT	ANT1	3-DH5	2480.00	1.187

99% Occupied Bandwidth NVNT ANT1 1-DH5 2402_00

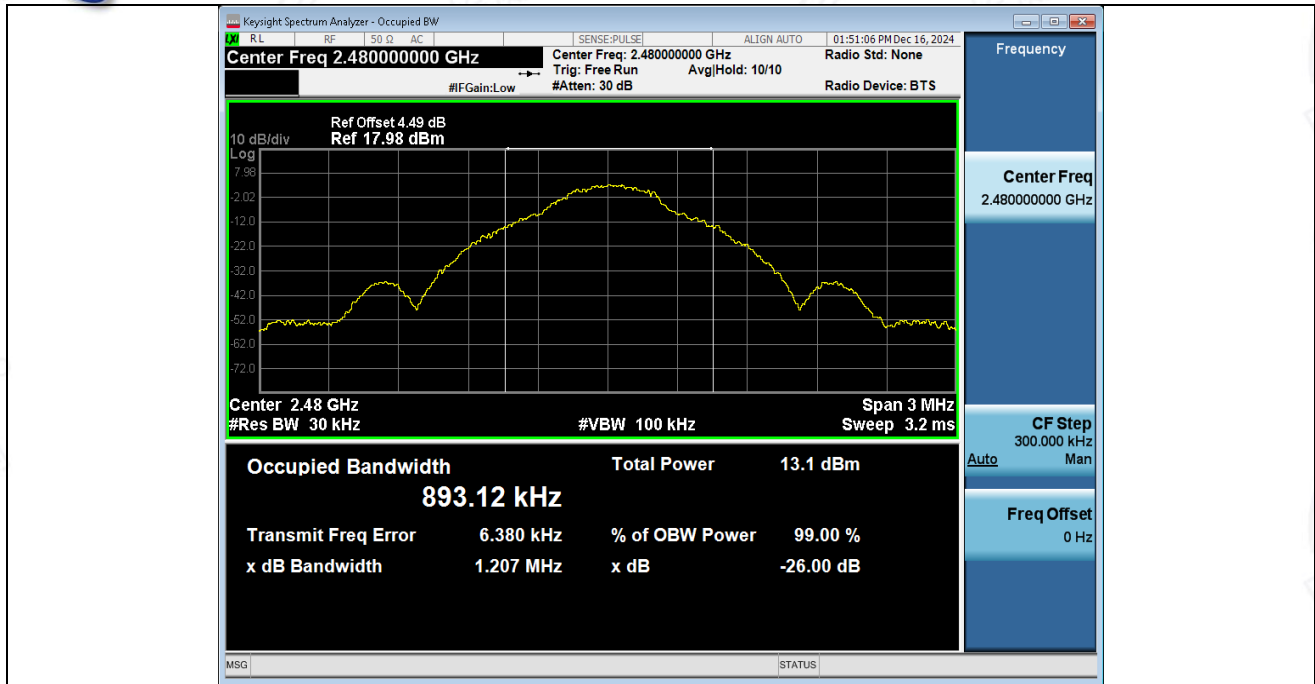


99% Occupied Bandwidth NVNT ANT1 1-DH5 2441_00



99% Occupied Bandwidth NVNT ANT1 1-DH5 2480_00



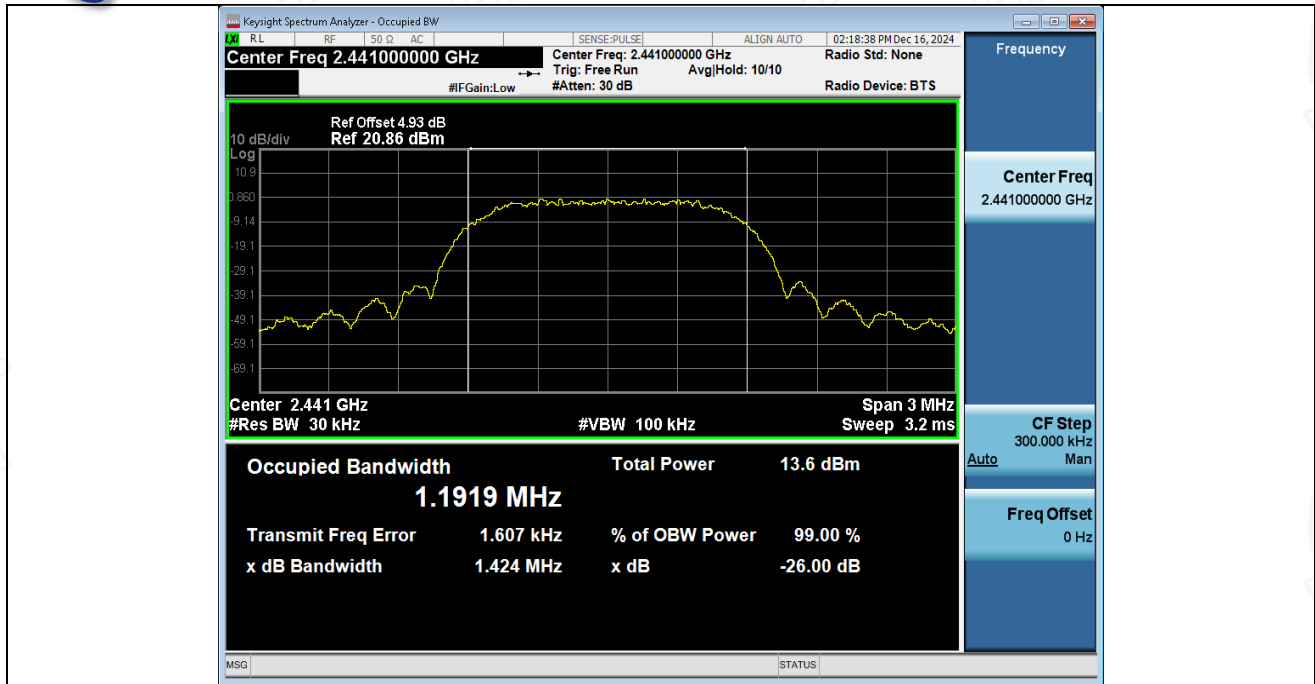


99% Occupied Bandwidth_NVNT_ANT1_2-DH5_2402_00

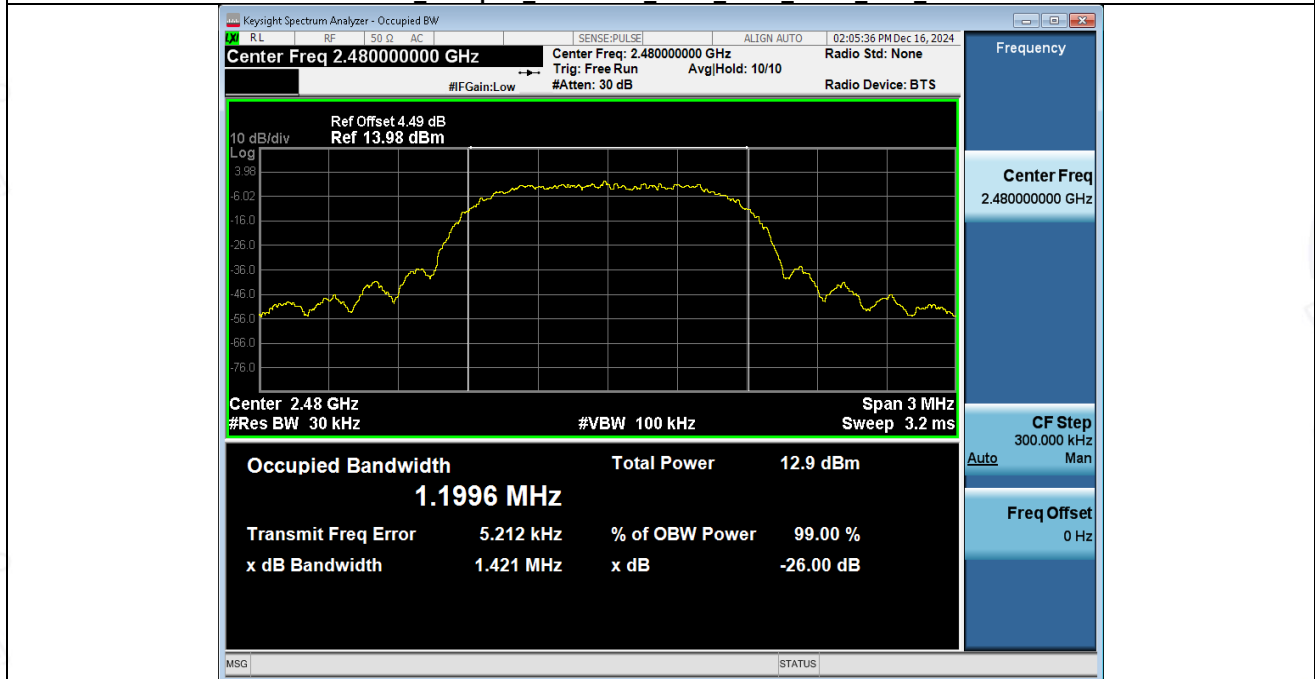


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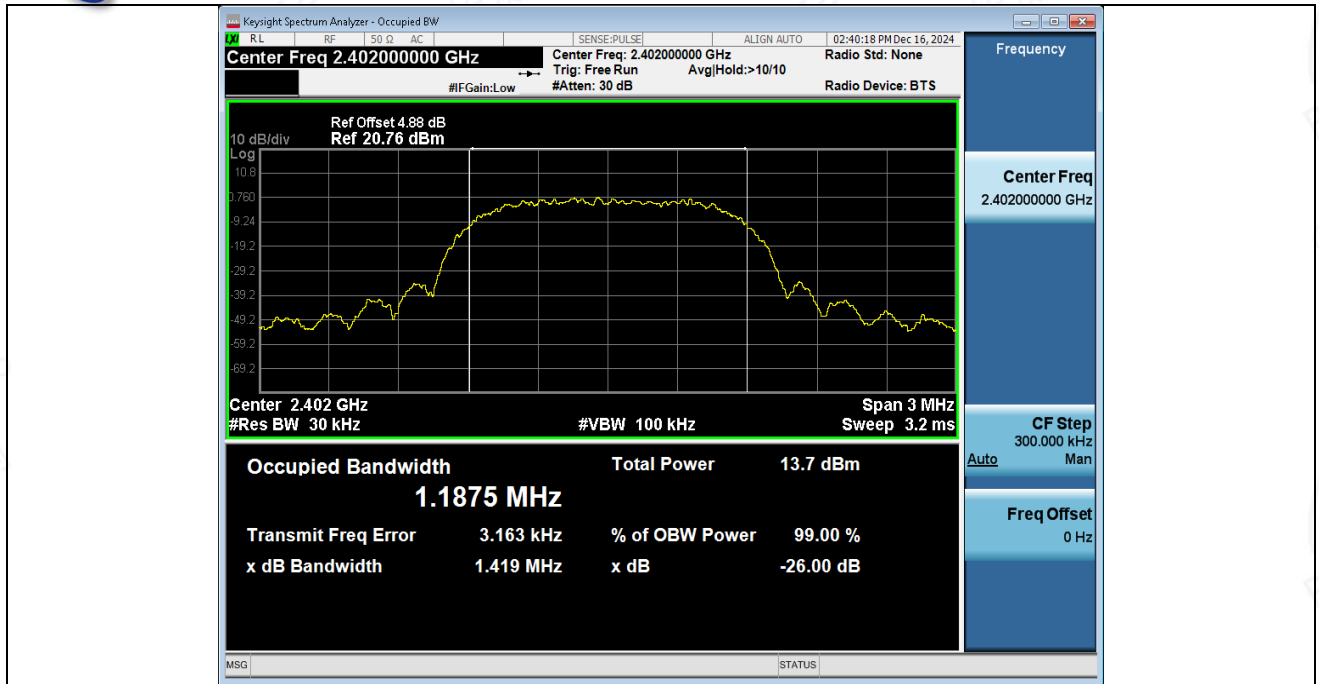


99% Occupied Bandwidth_NVNT_ANT1_2-DH5_2480_00

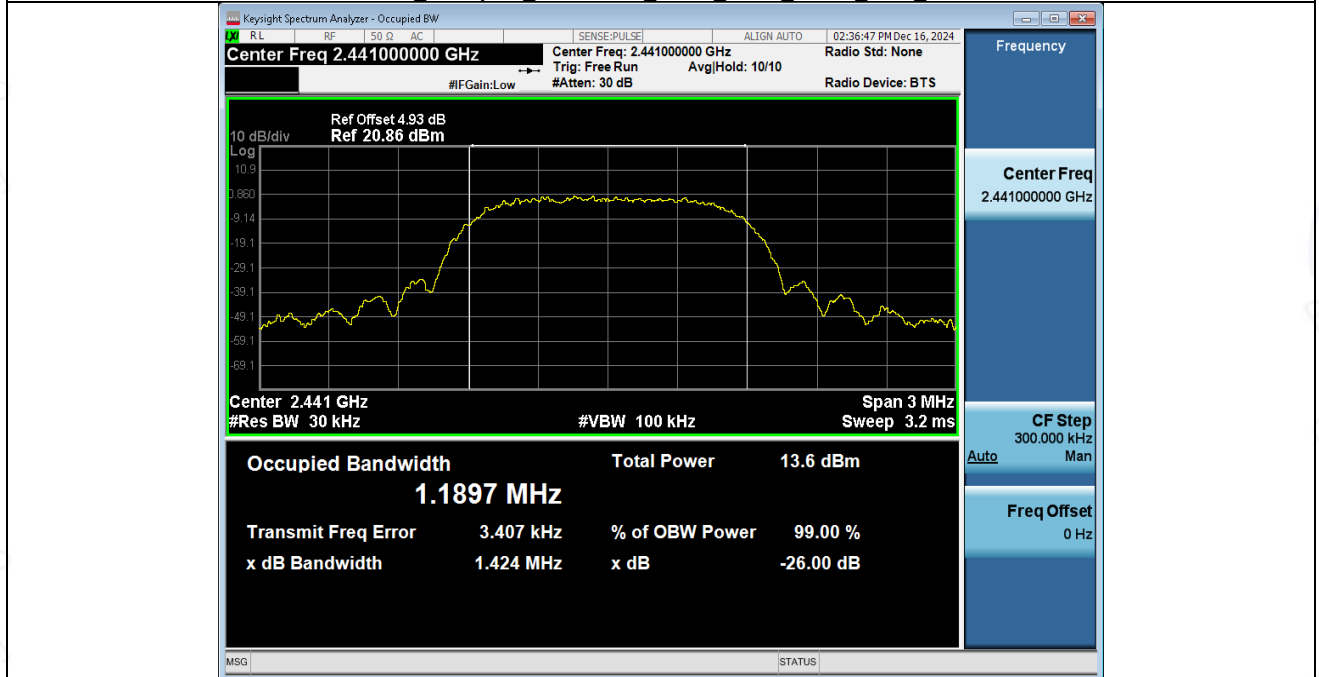


99% Occupied Bandwidth_NVNT_ANT1_3-DH5_2402_00



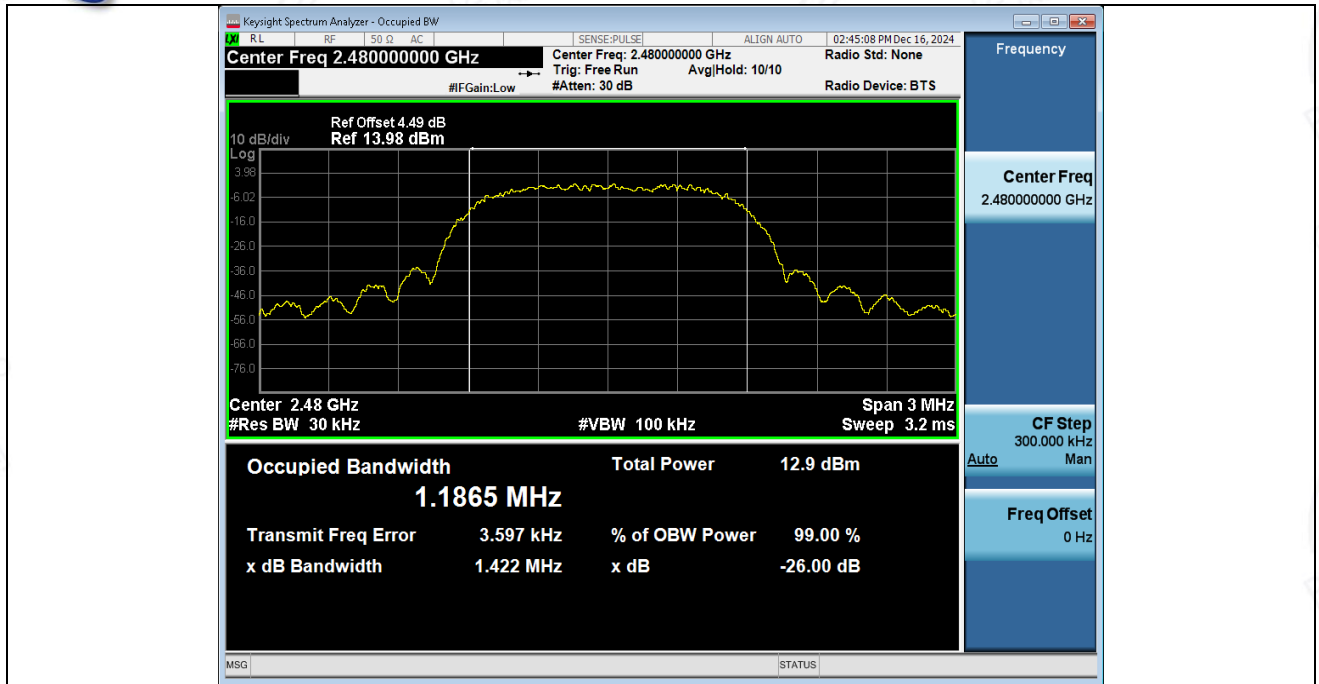


99% Occupied Bandwidth_NVNT_ANT1_3-DH5_2441_00



99% Occupied Bandwidth_NVNT_ANT1_3-DH5_2480_00

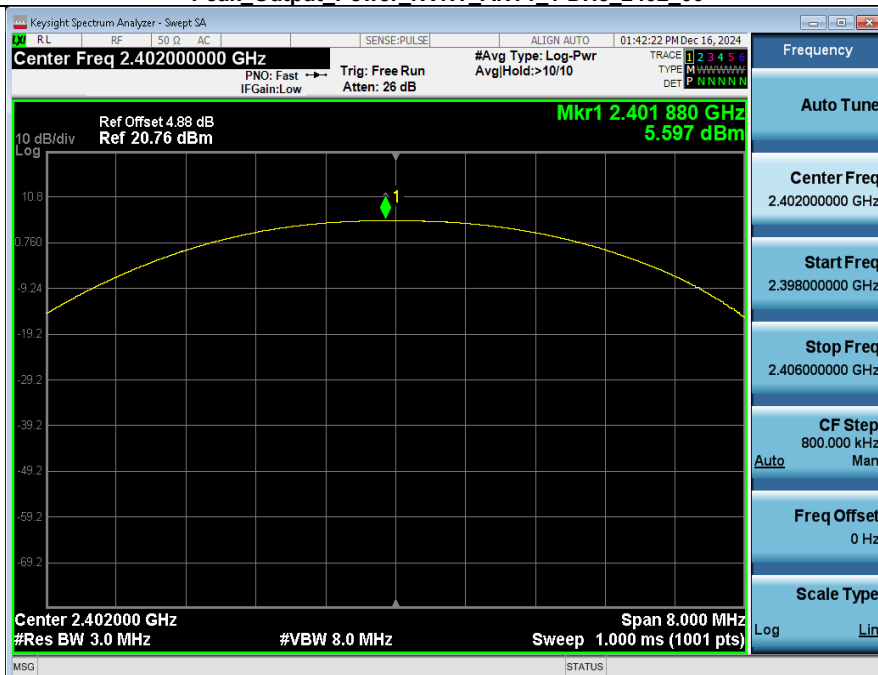




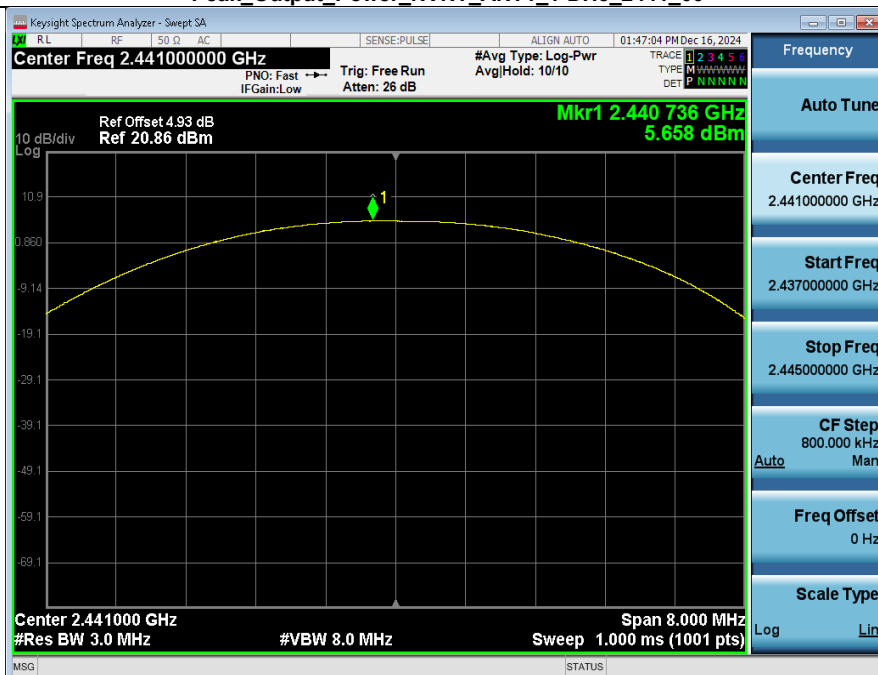
4. Peak Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1-DH5	2402.00	5.60	3.63	125	Pass
NVNT	ANT1	1-DH5	2441.00	5.66	3.68	125	Pass
NVNT	ANT1	1-DH5	2480.00	4.76	2.99	125	Pass
NVNT	ANT1	2-DH5	2402.00	7.64	5.81	125	Pass
NVNT	ANT1	2-DH5	2441.00	7.70	5.89	125	Pass
NVNT	ANT1	2-DH5	2480.00	6.83	4.82	125	Pass
NVNT	ANT1	3-DH5	2402.00	8.27	6.71	125	Pass
NVNT	ANT1	3-DH5	2441.00	8.24	6.67	125	Pass
NVNT	ANT1	3-DH5	2480.00	7.35	5.43	125	Pass

Peak_Output_Power_NVNT_ANT1_1-DH5_2402_00

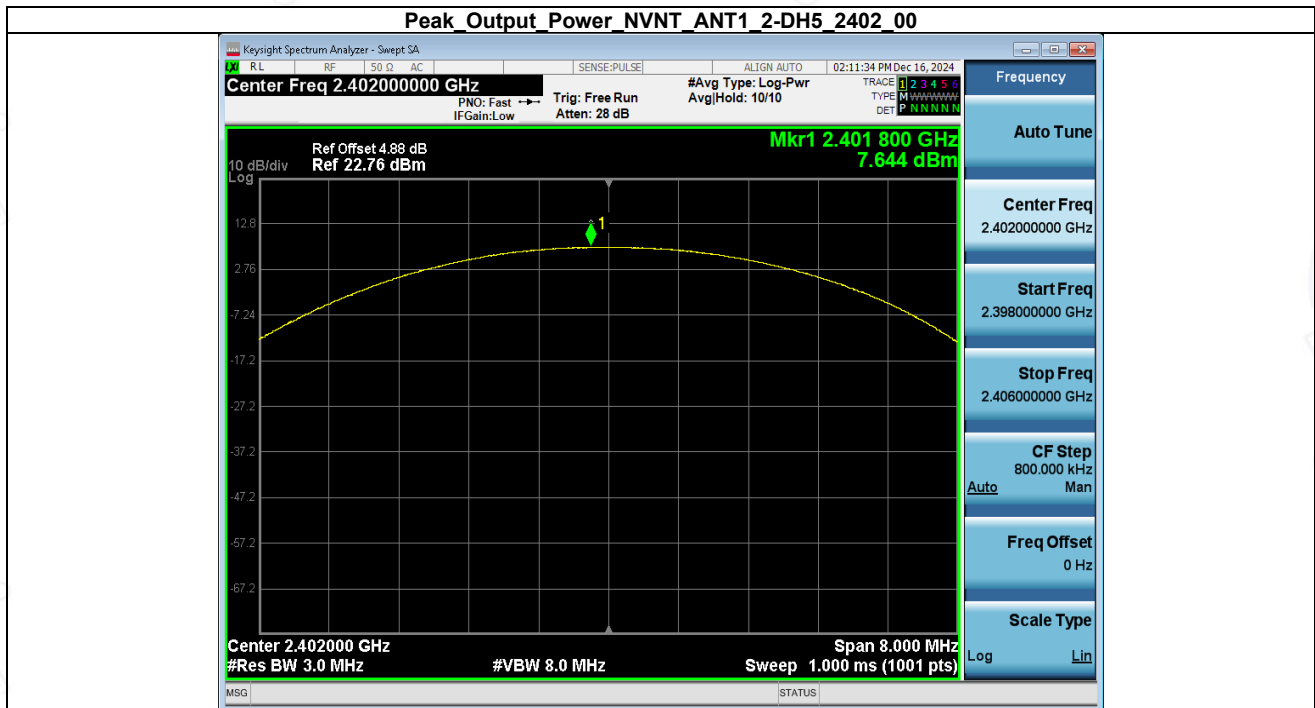
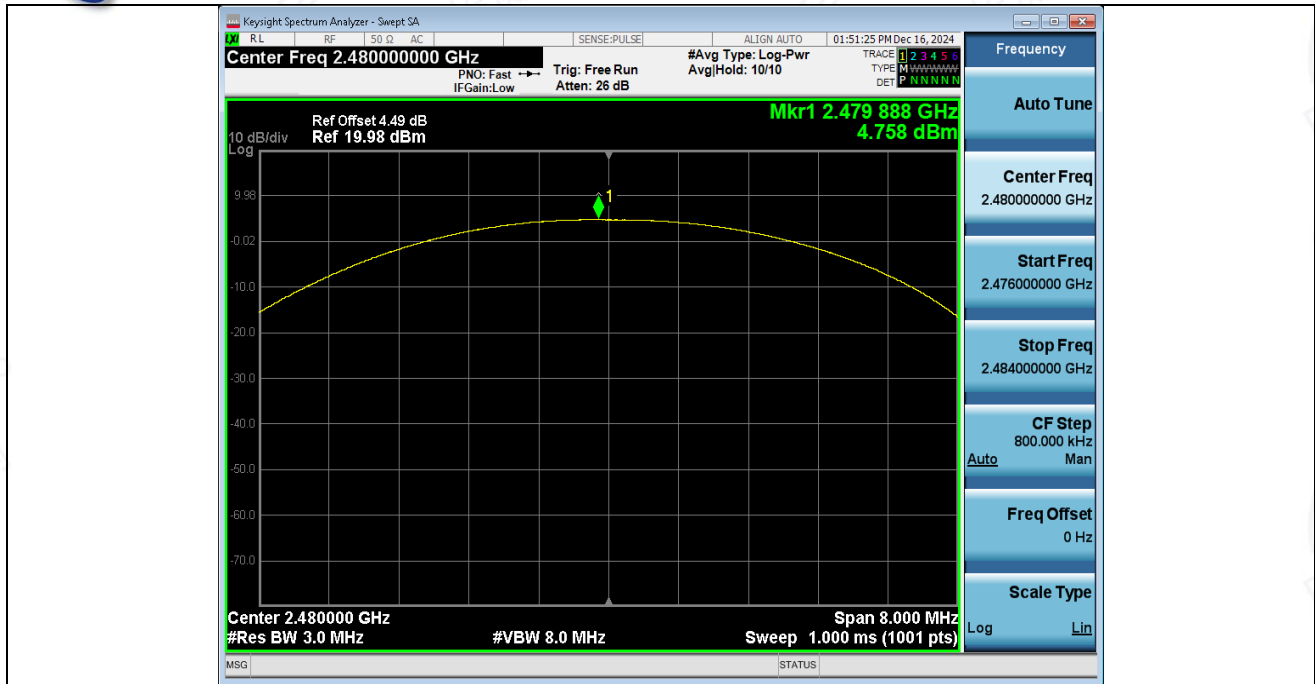


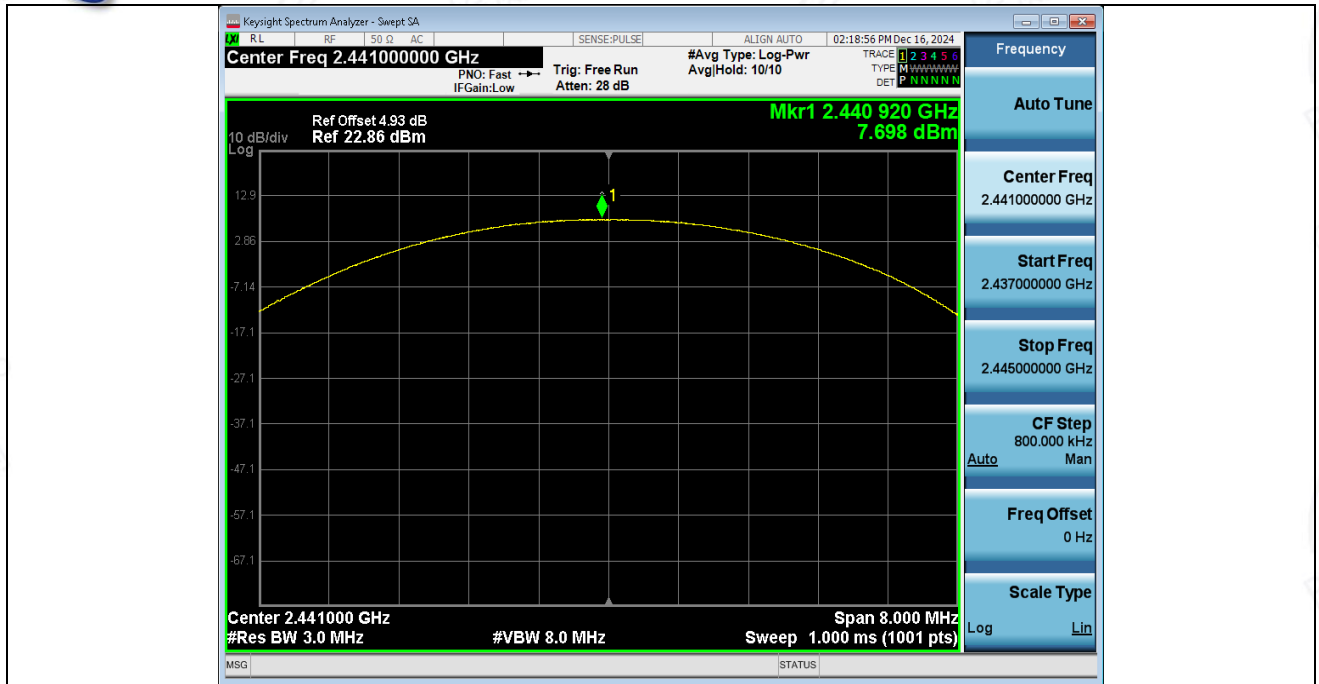
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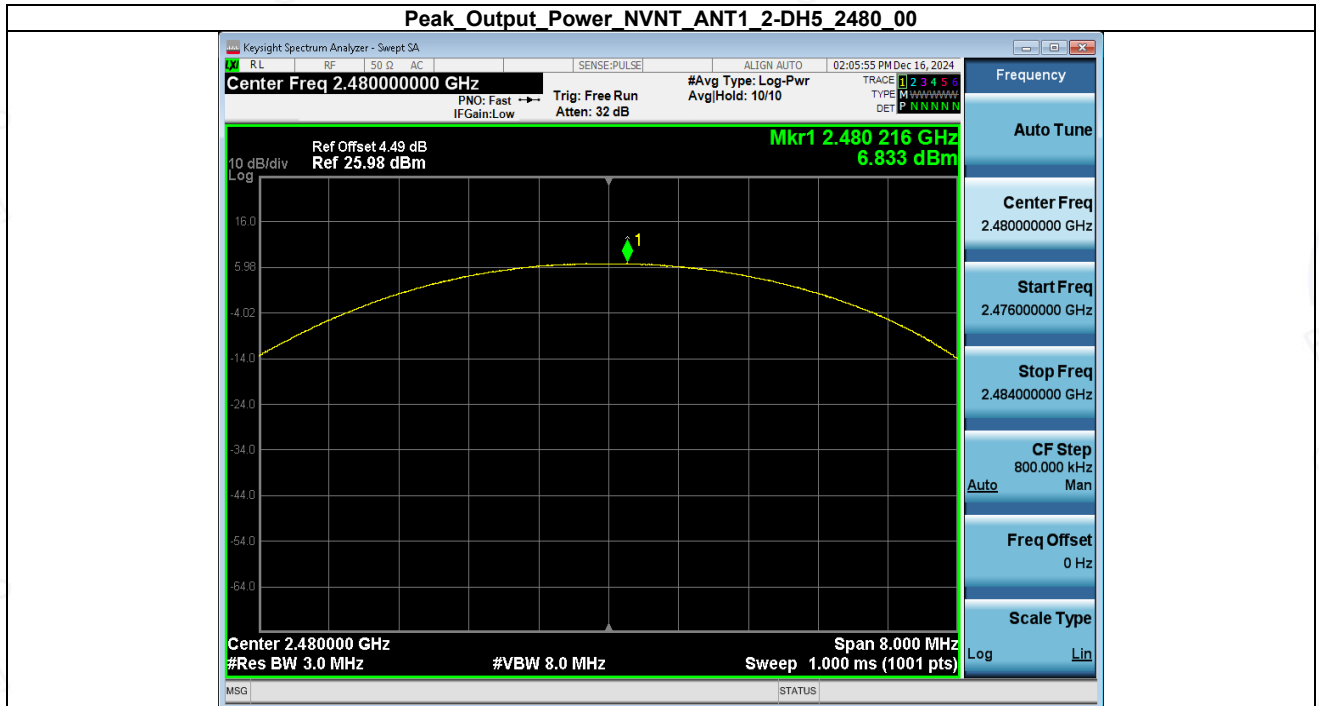
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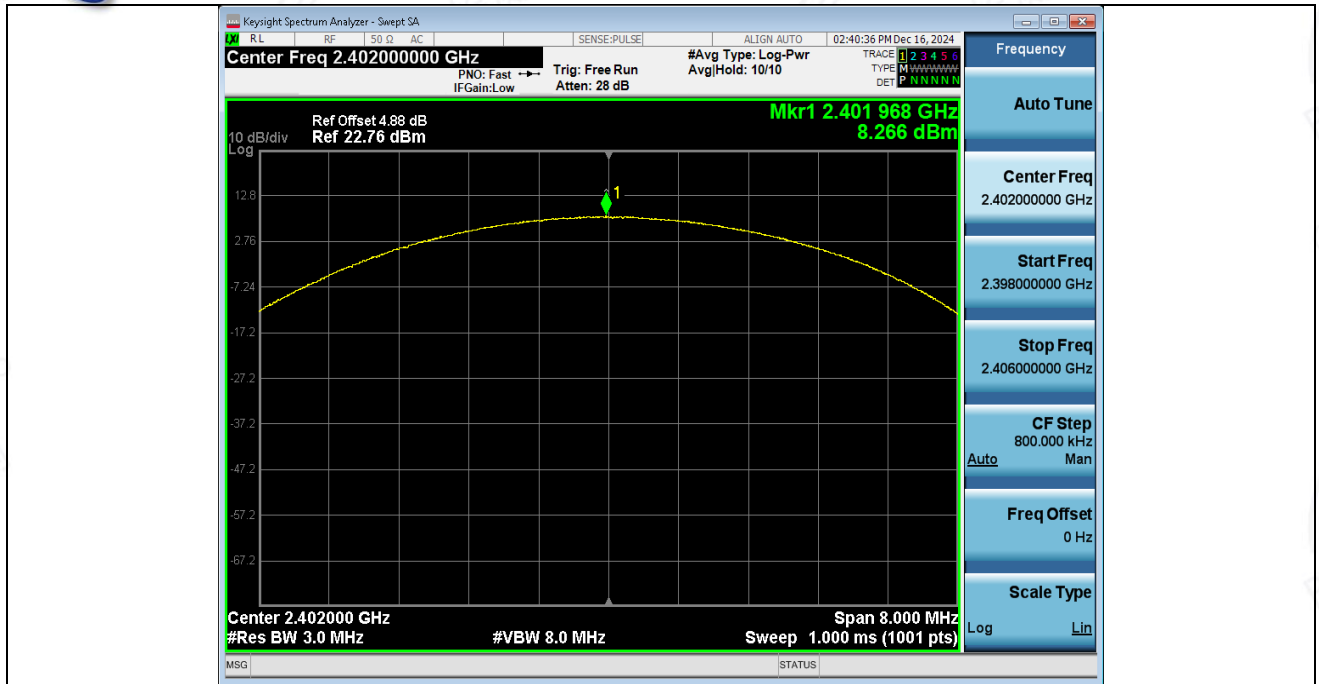


Peak_Output_Power_NVNT_ANT1_2-DH5_2480_00

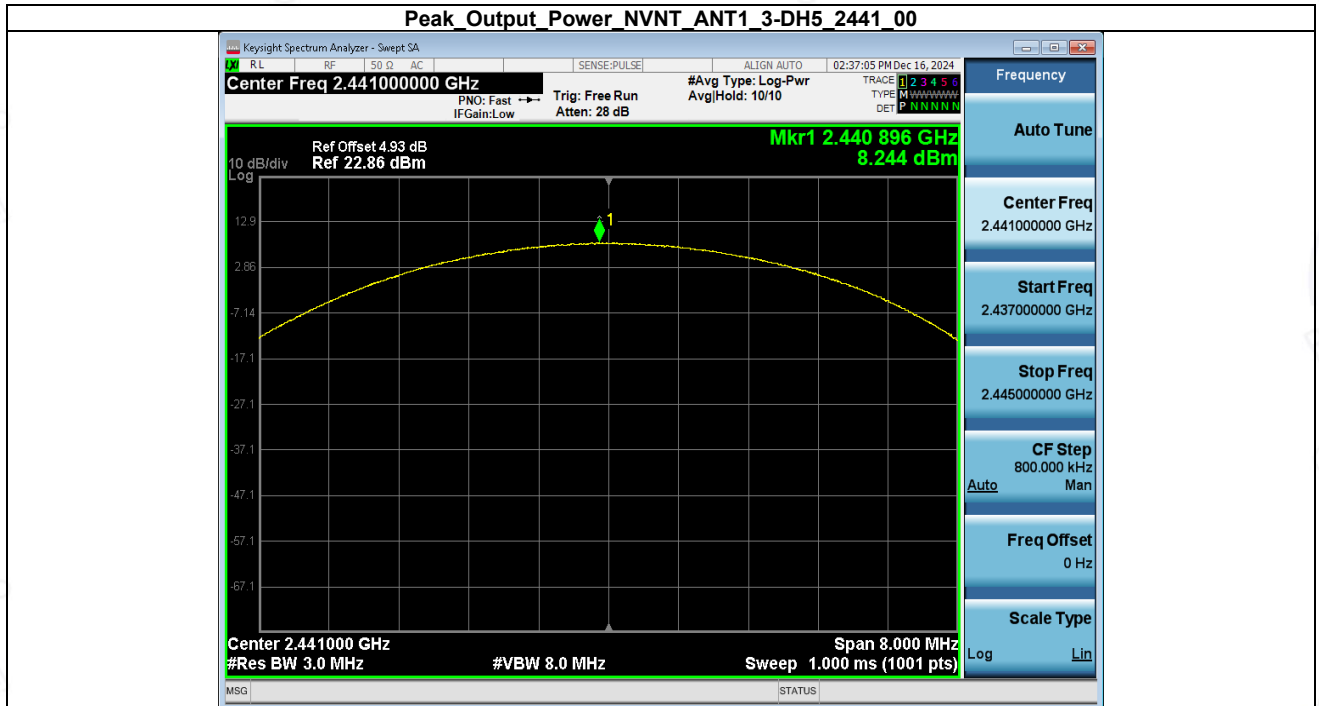


Peak_Output_Power_NVNT_ANT1_3-DH5_2402_00



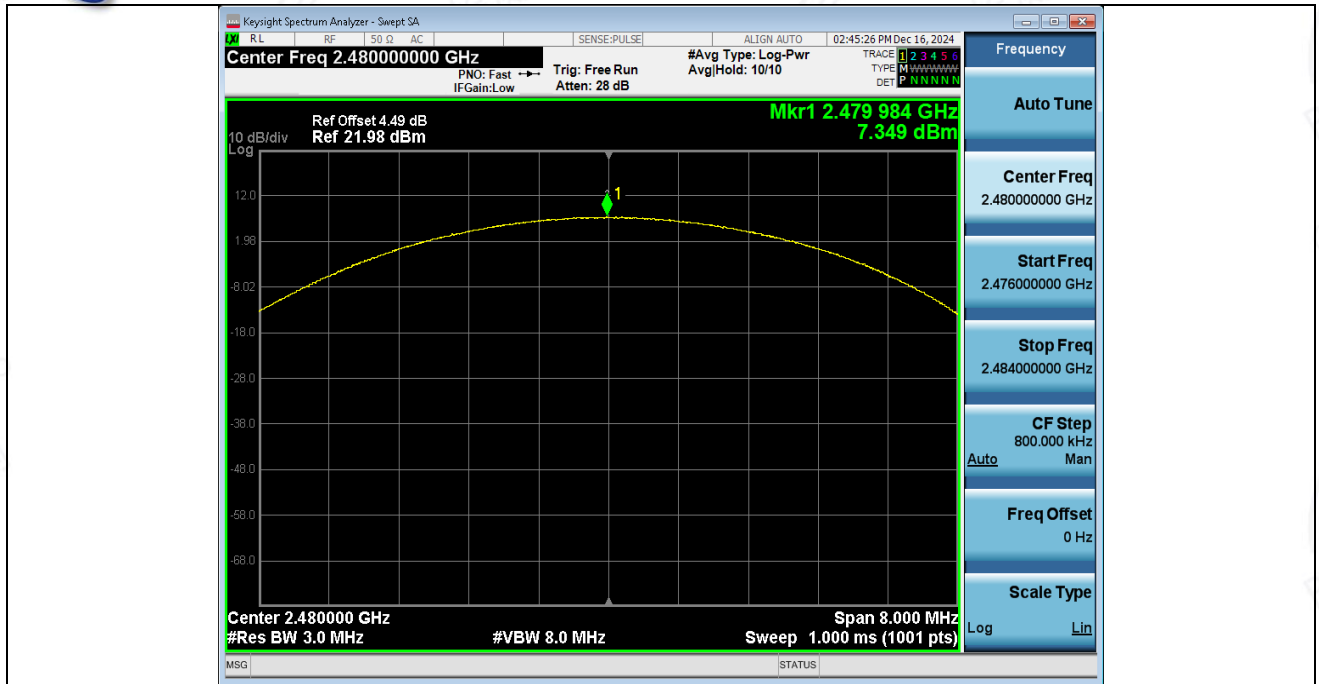


Peak_Output_Power_NVNT_ANT1_3-DH5_2441_00



Peak_Output_Power_NVNT_ANT1_3-DH5_2480_00

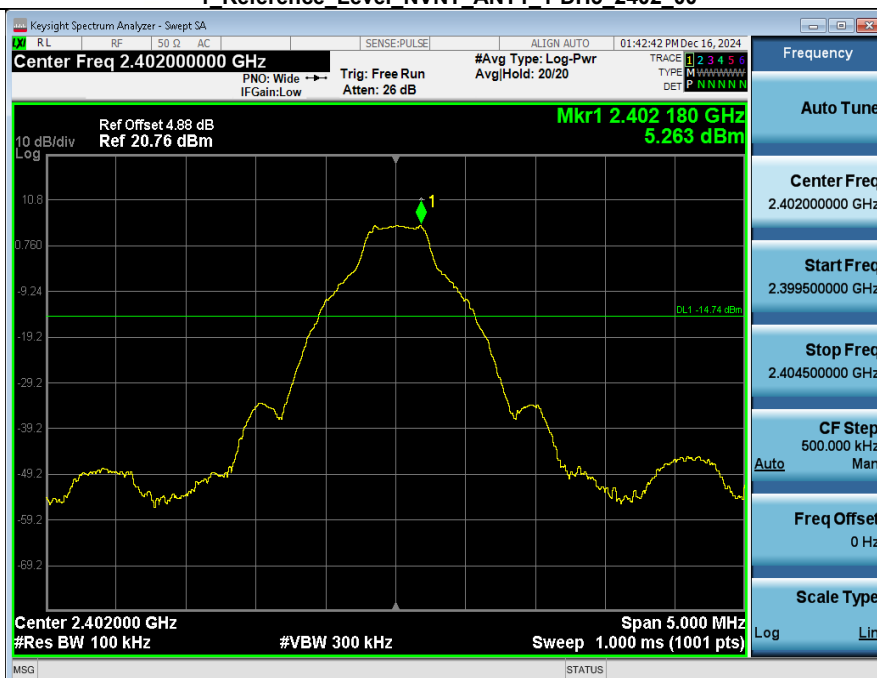




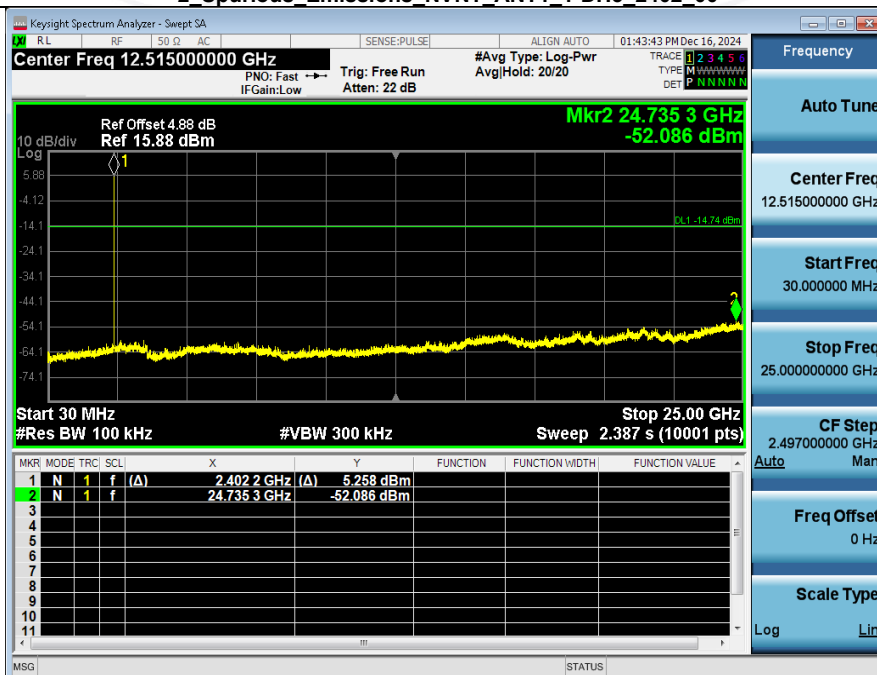
5. Spurious Emissions

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH5	2402.00	5.263	-52.086	-14.737	Pass
NVNT	ANT1	1-DH5	2441.00	5.311	-51.518	-14.689	Pass
NVNT	ANT1	1-DH5	2480.00	4.368	-47.955	-15.632	Pass
NVNT	ANT1	2-DH5	2402.00	3.658	-47.592	-16.342	Pass
NVNT	ANT1	2-DH5	2441.00	4.152	-54.130	-15.848	Pass
NVNT	ANT1	2-DH5	2480.00	2.927	-54.449	-17.073	Pass
NVNT	ANT1	3-DH5	2402.00	3.863	-47.089	-16.137	Pass
NVNT	ANT1	3-DH5	2441.00	4.082	-54.208	-15.918	Pass
NVNT	ANT1	3-DH5	2480.00	3.191	-54.364	-16.809	Pass

1 Reference Level NVNT ANT1 1-DH5 2402 00



2 Spurious Emissions NVNT ANT1 1-DH5 2402 00

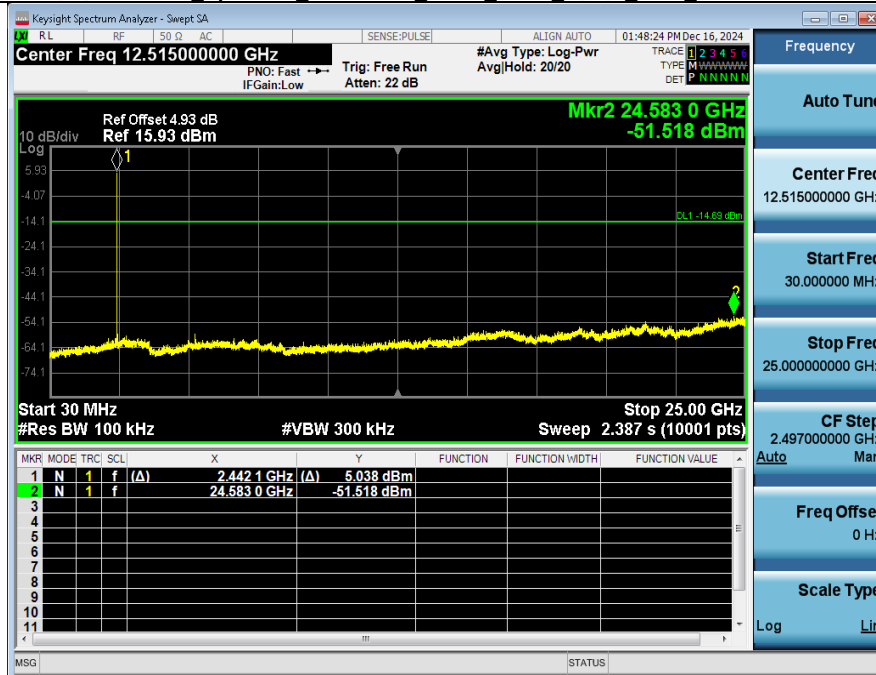


1 Reference Level NVNT ANT1 1-DH5 2441 00





2_Spurious_Emissions_NVNT_ANT1_1-DH5_2441_00

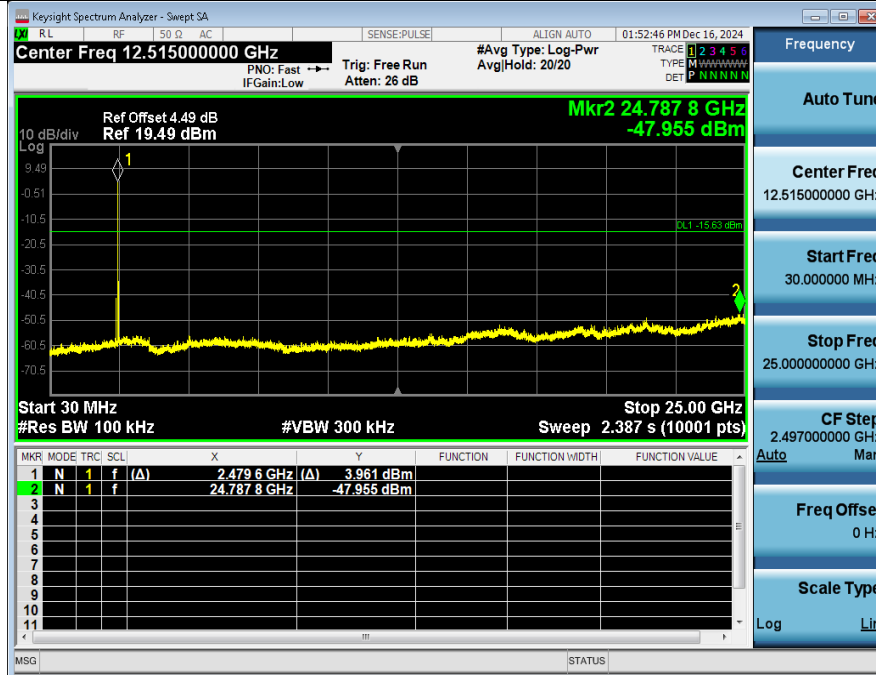


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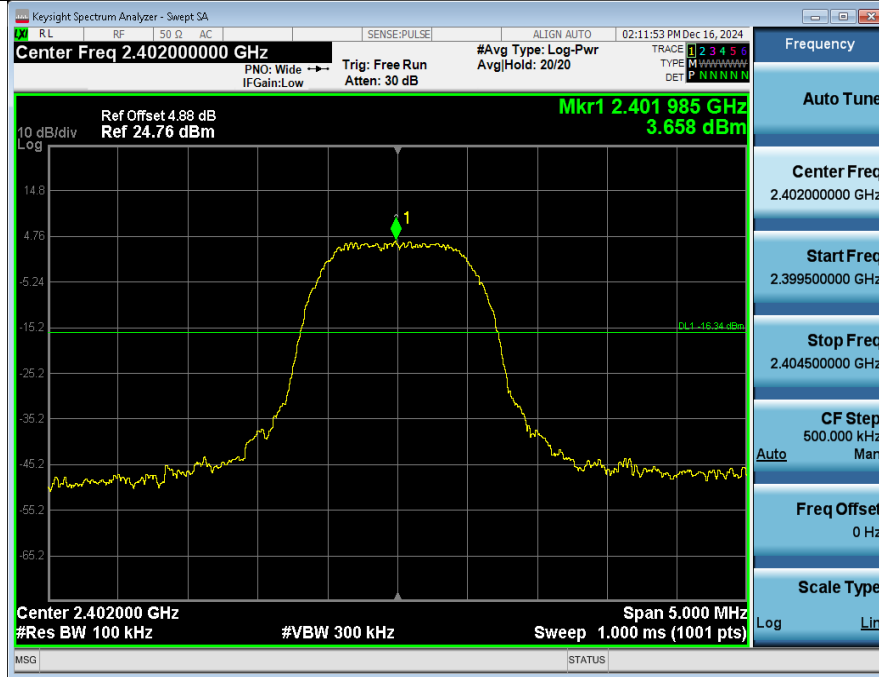


2_Spurious_Emissions_NVNT_ANT1_1-DH5_2480_00

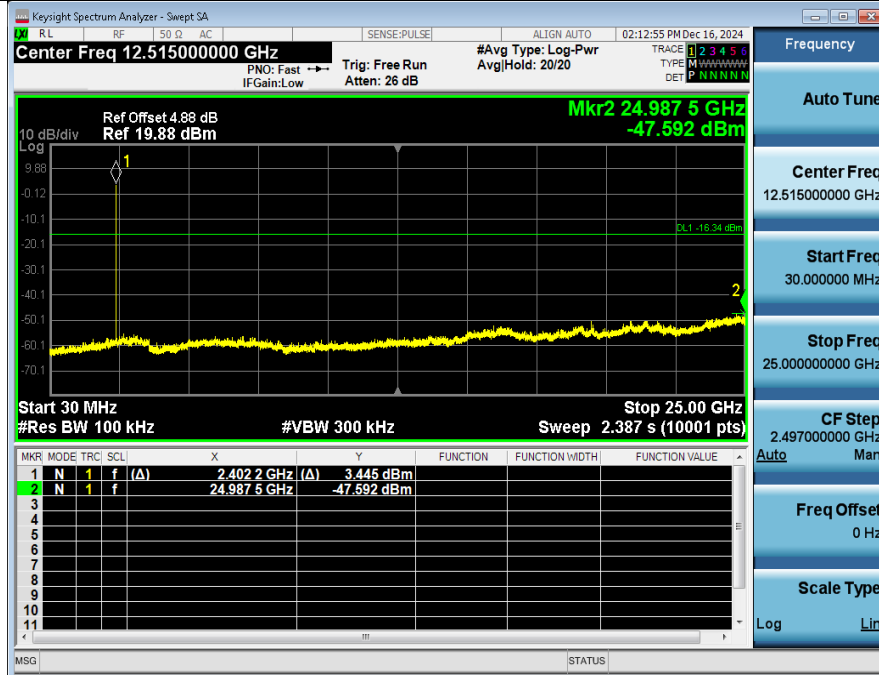


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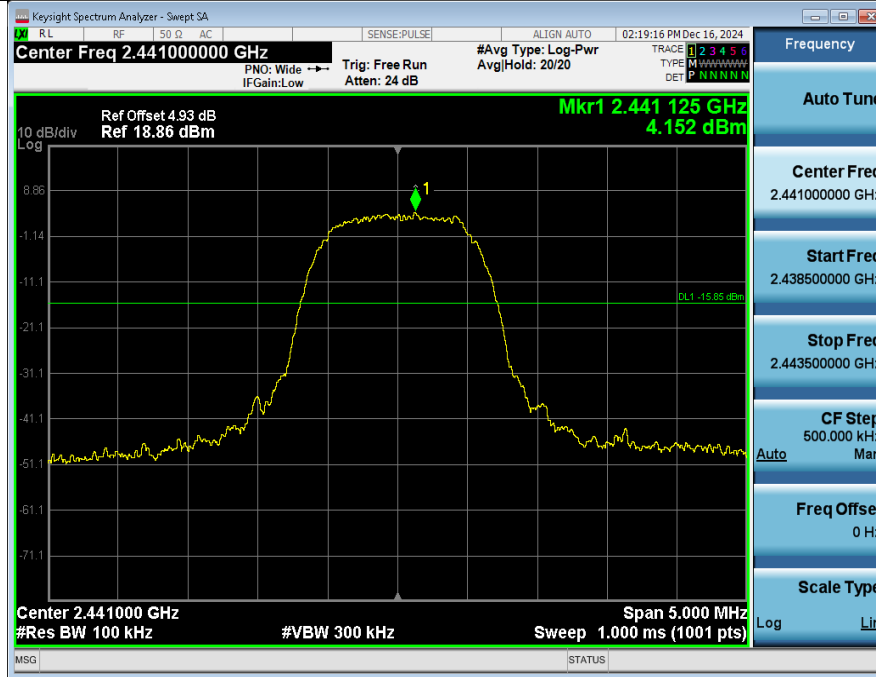


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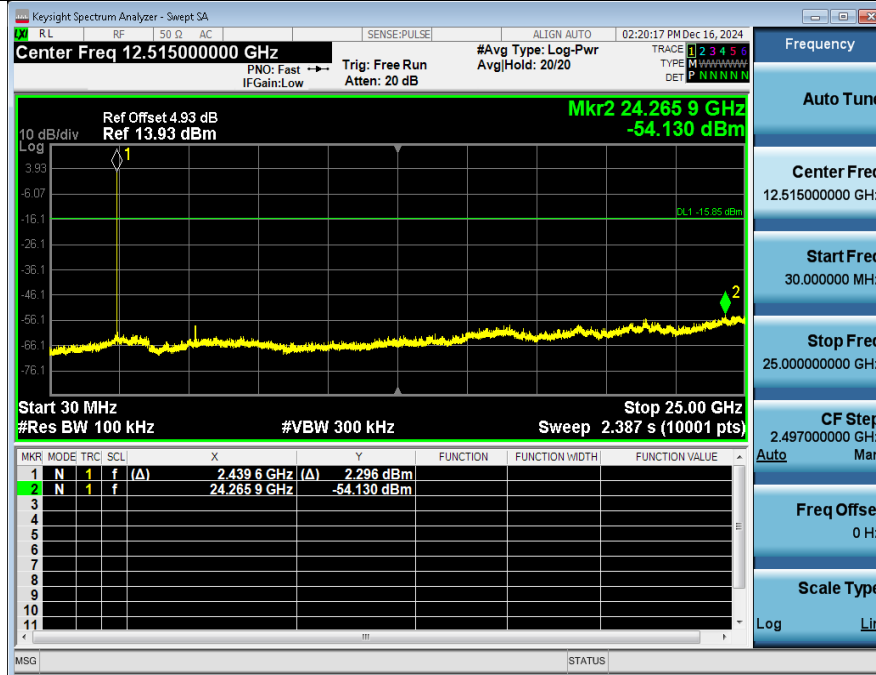


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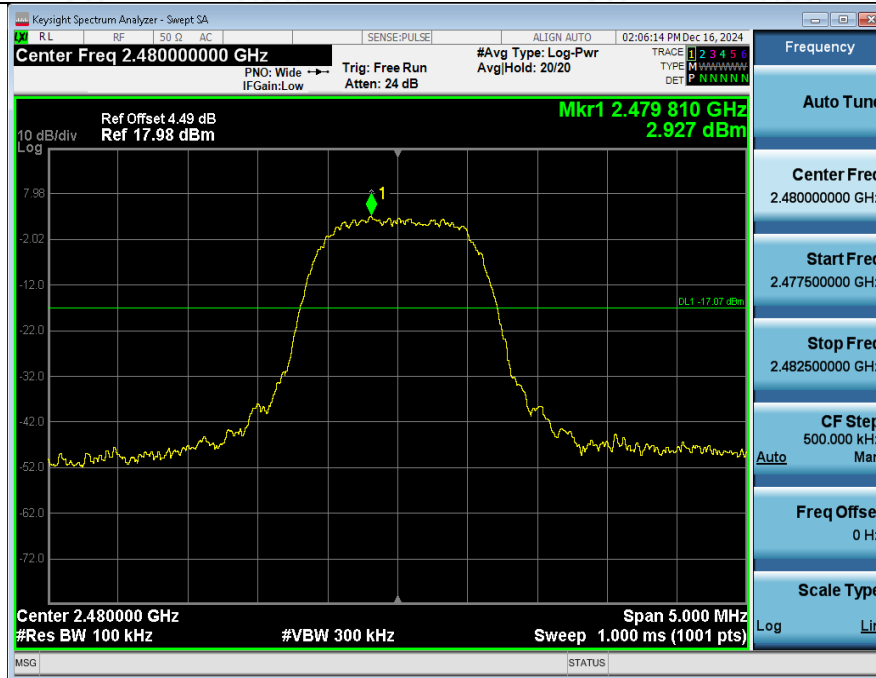


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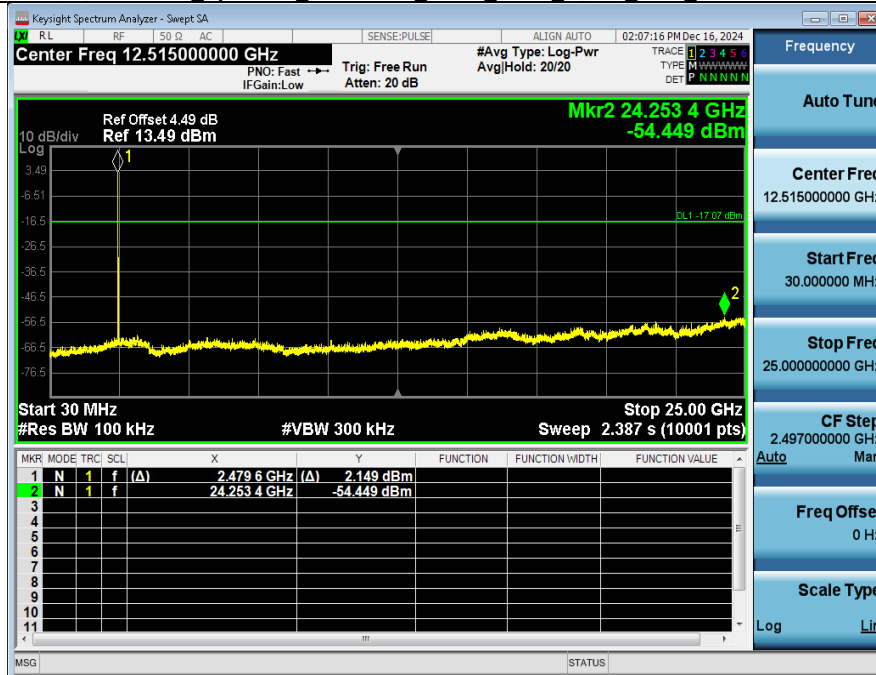


1_Reference_Level_NVNT_ANT1_2-DH5_2480_00



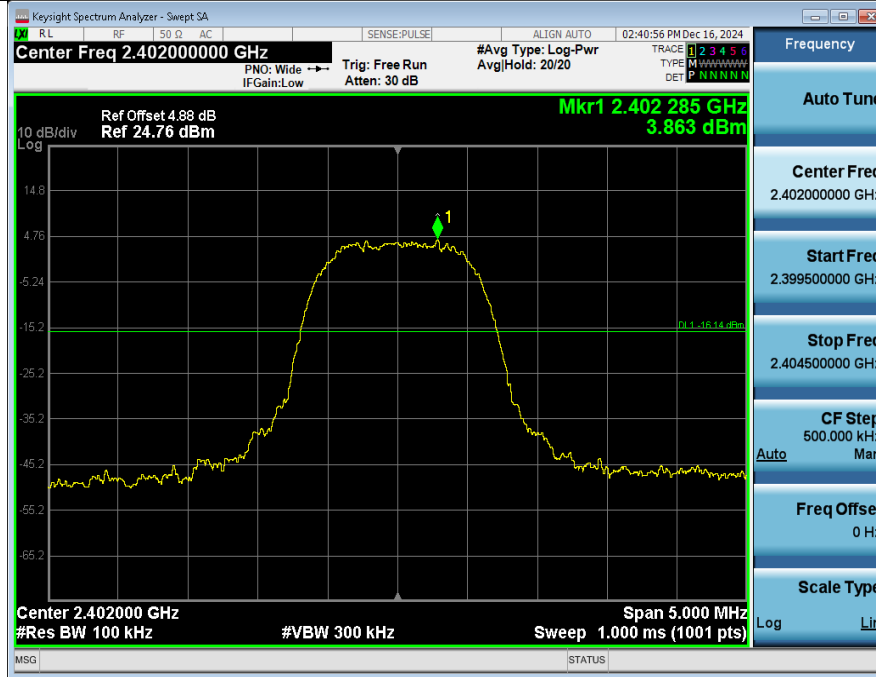


2_Spurious_Emissions_NVNT_ANT1_2-DH5_2480_00

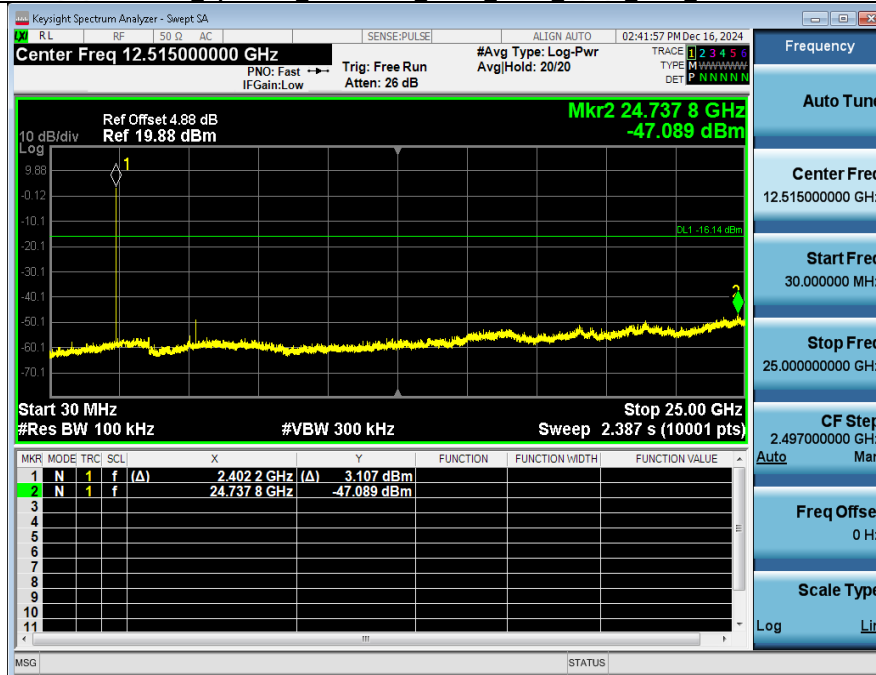


1_Reference_Level_NVNT_ANT1_3-DH5_2402_00



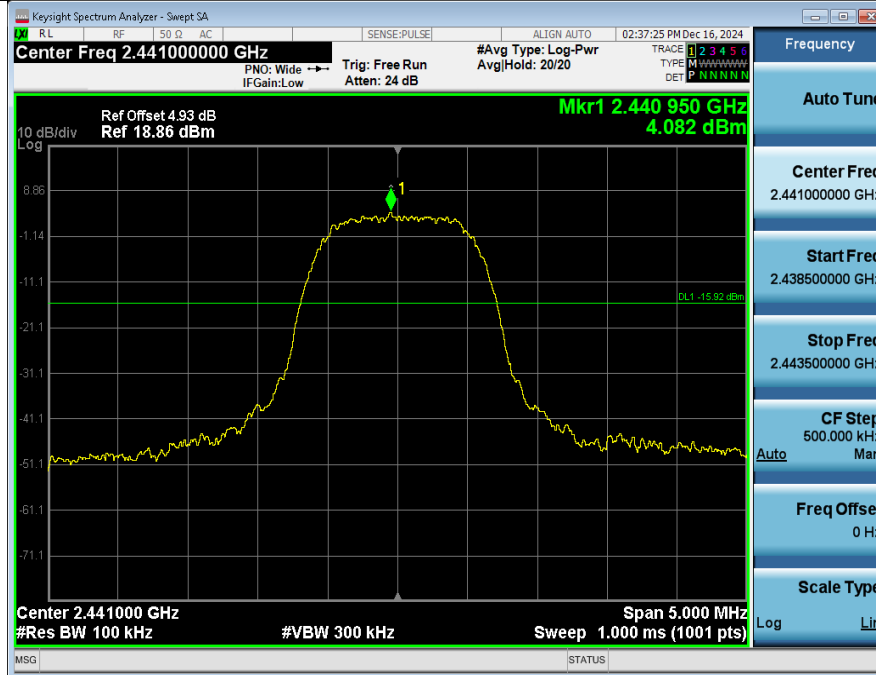


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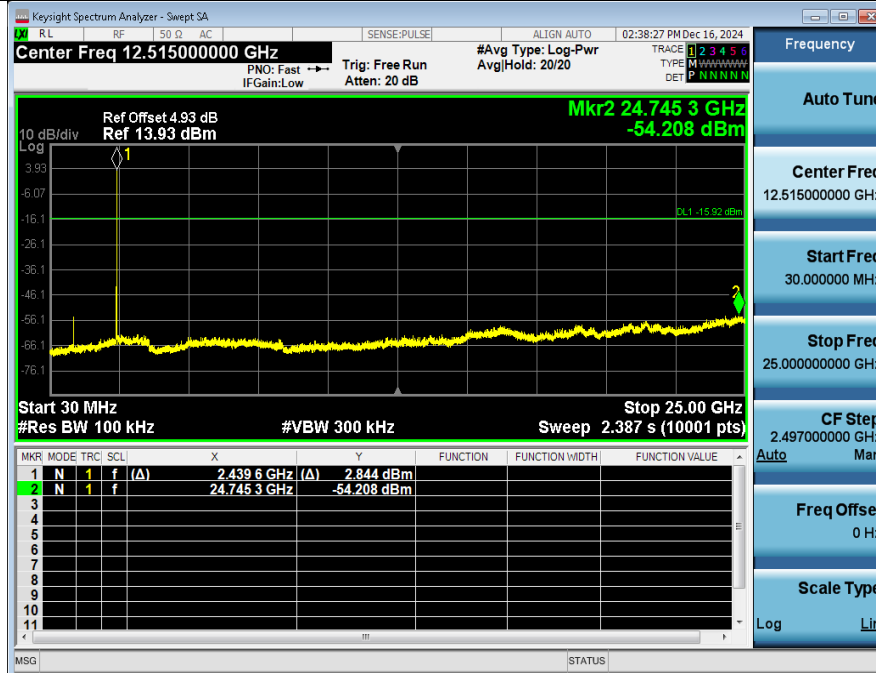


1_Reference_Level_NVNT_ANT1_3-DH5_2441_00



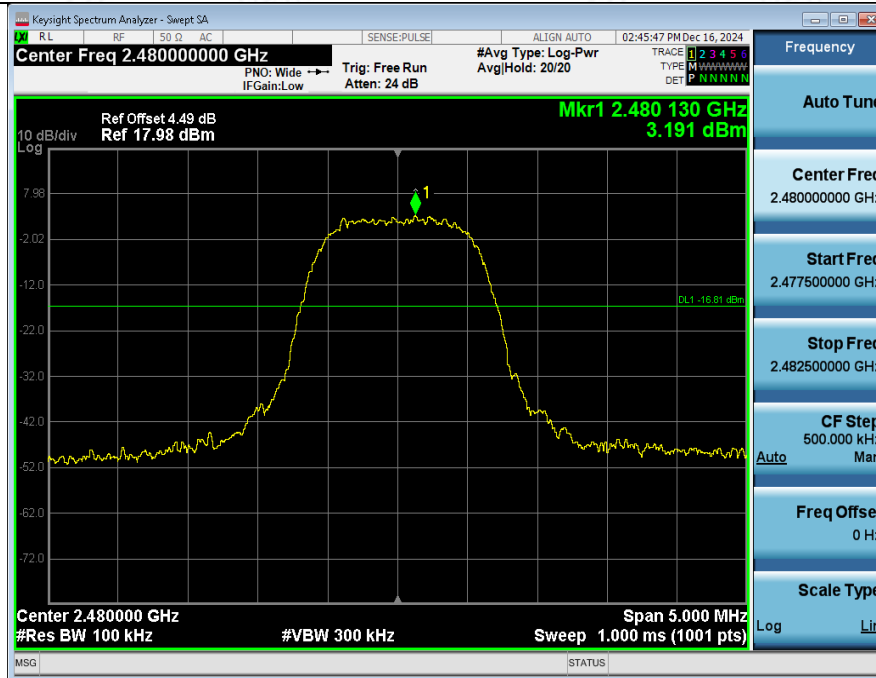


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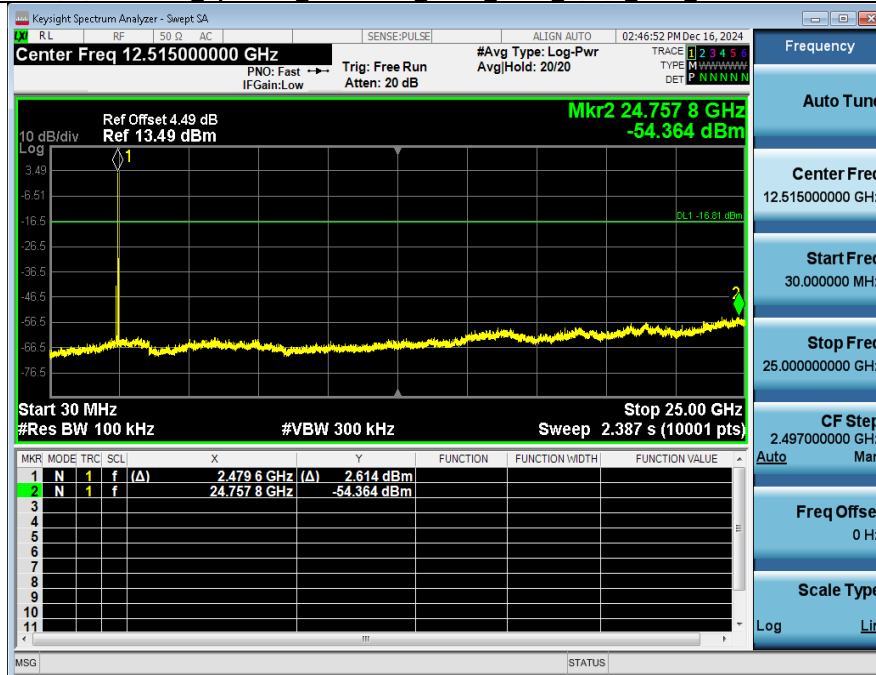


1_Reference_Level_NVNT_ANT1_3-DH5_2480_00





2 Spurious Emissions NVNT ANT1 3-DH5 2480 00



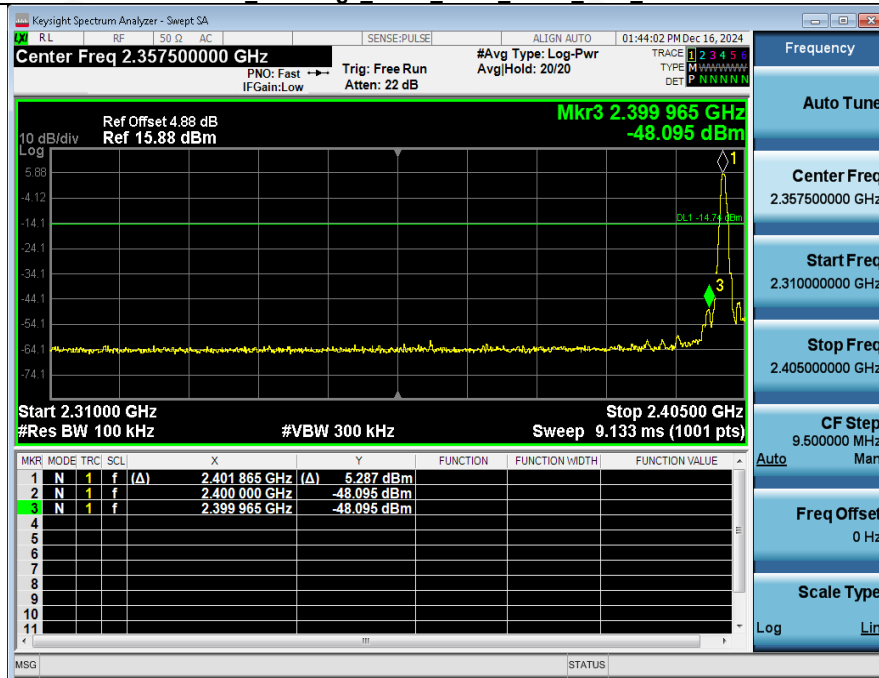
6. Bandedge

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Bandedge MAX.Value	Limit	Result
NVNT	ANT1	1-DH5	2402.00	5.263	-48.095	-14.737	Pass
NVNT	ANT1	1-DH5	Hopping_LCH	7.307	-48.890	-12.693	Pass
NVNT	ANT1	1-DH5	2480.00	4.368	-55.290	-15.632	Pass
NVNT	ANT1	1-DH5	Hopping_HCH	6.553	-55.488	-13.447	Pass
NVNT	ANT1	2-DH5	2402.00	3.658	-48.263	-16.342	Pass
NVNT	ANT1	2-DH5	Hopping_LCH	7.857	-48.937	-12.143	Pass
NVNT	ANT1	2-DH5	2480.00	2.927	-58.192	-17.073	Pass
NVNT	ANT1	2-DH5	Hopping_HCH	7.609	-58.254	-12.391	Pass
NVNT	ANT1	3-DH5	2402.00	3.863	-47.856	-16.137	Pass
NVNT	ANT1	3-DH5	Hopping_LCH	8.043	-47.691	-11.957	Pass
NVNT	ANT1	3-DH5	2480.00	3.191	-58.073	-16.809	Pass
NVNT	ANT1	3-DH5	Hopping_HCH	7.463	-54.147	-12.537	Pass

1 Reference Level NVNT ANT1 1-DH5 2402_00



2 Bandedge NVNT ANT1 1-DH5 2402_00

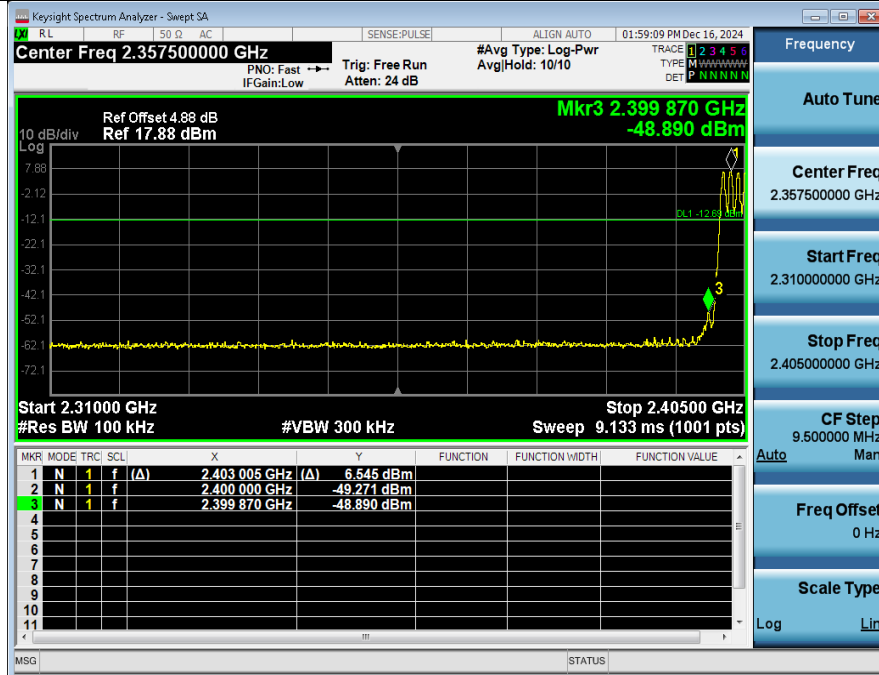


1 Reference Level Hopping NVNT ANT1 1-DH5 Hopping





2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH5_Hopping

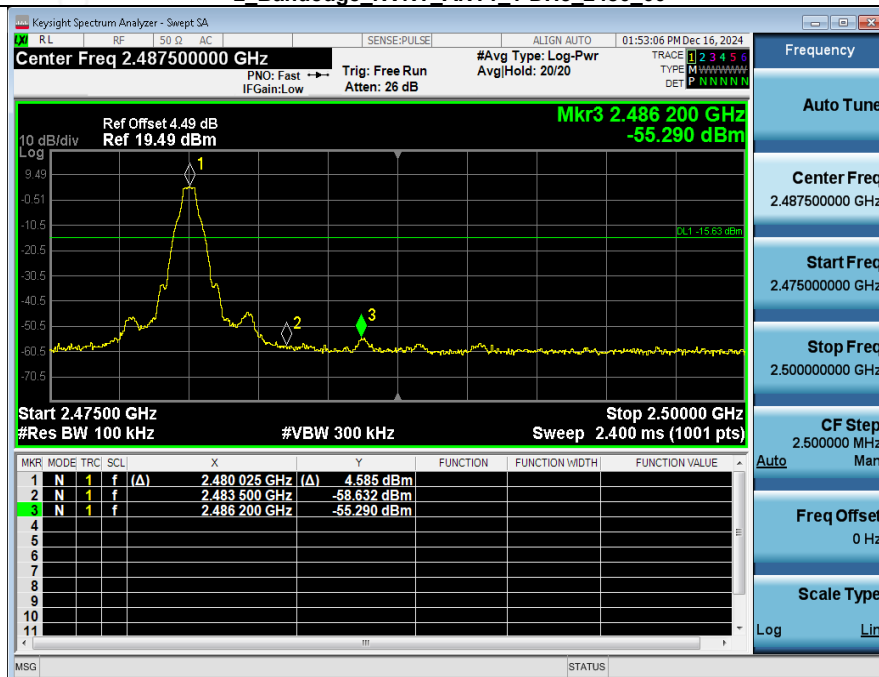


1_Reference_Level_NVNT_ANT1_1-DH5_2480_00



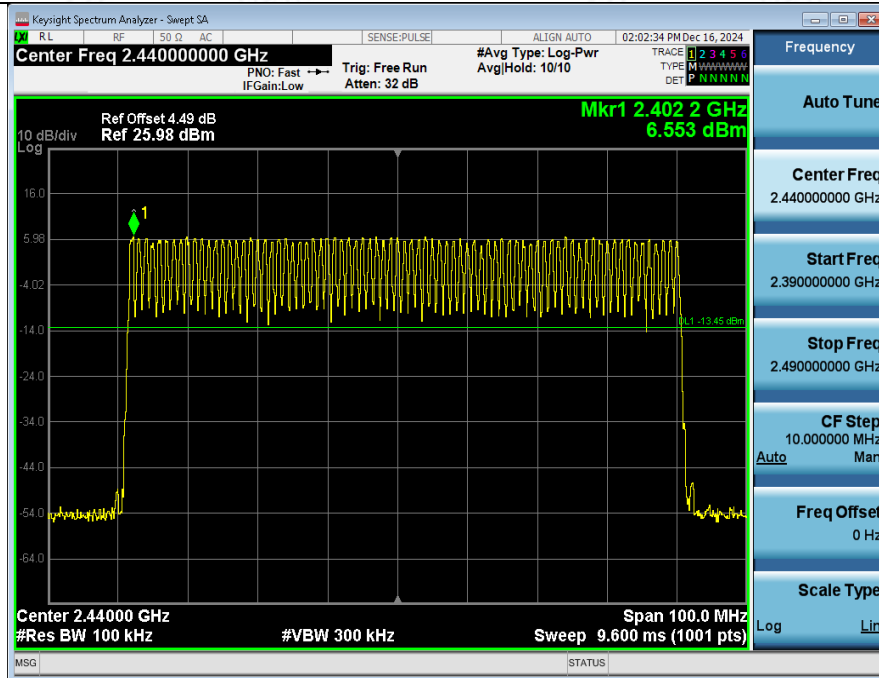


2_Bandedge_NVNT_ANT1_1-DH5_2480_00

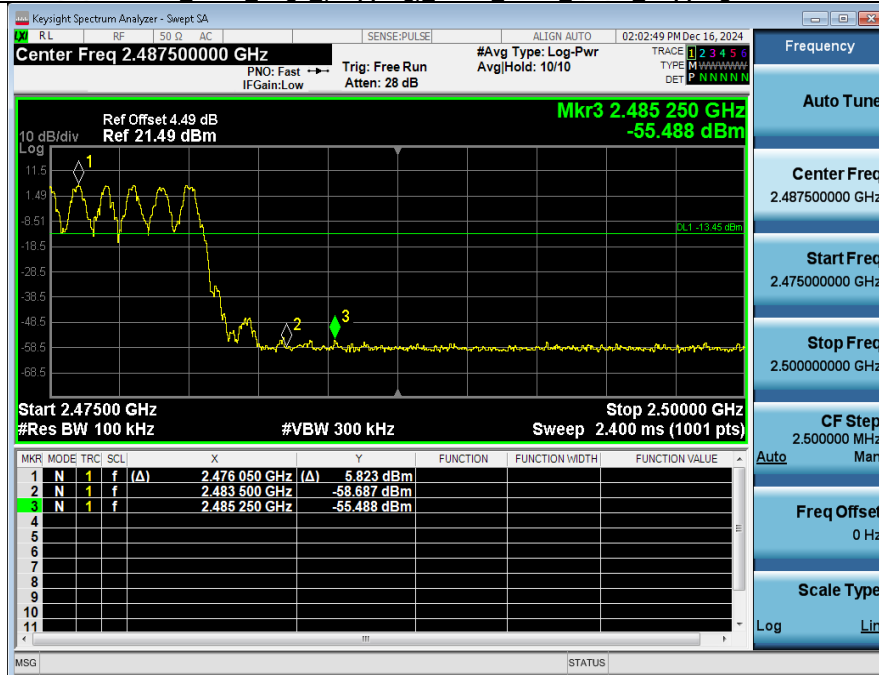


1_Reference_Level_Hopping_NVNT_ANT1_1-DH5_Hopping



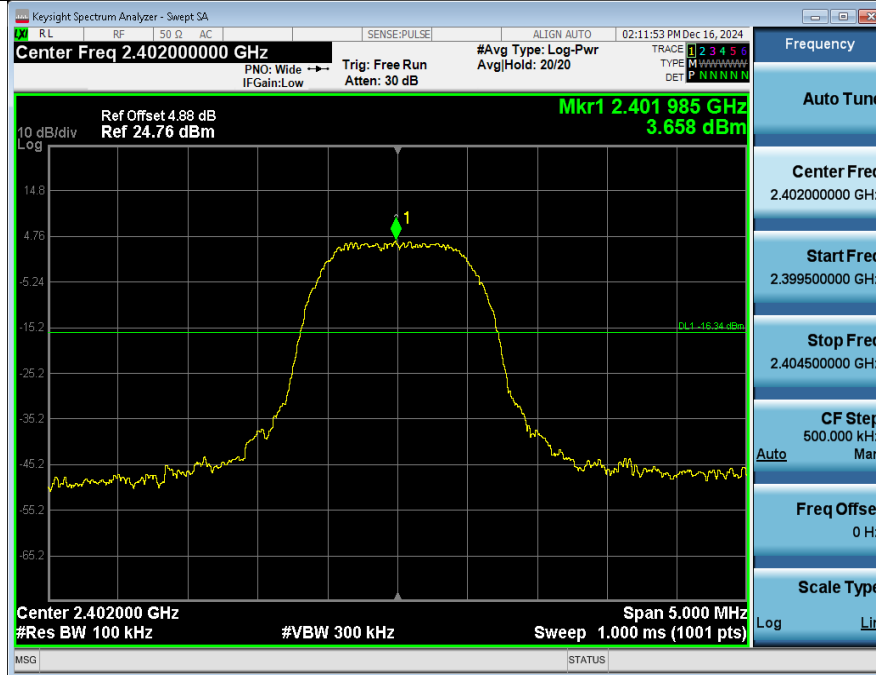


2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH5_Hopping

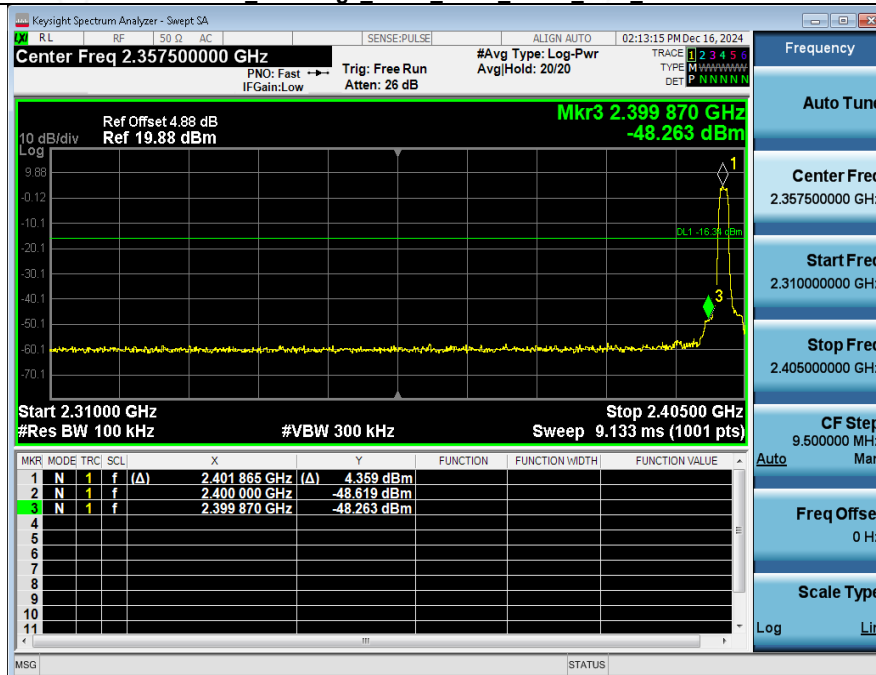


1_Reference_Level_NVNT_ANT1_2-DH5_2402_00



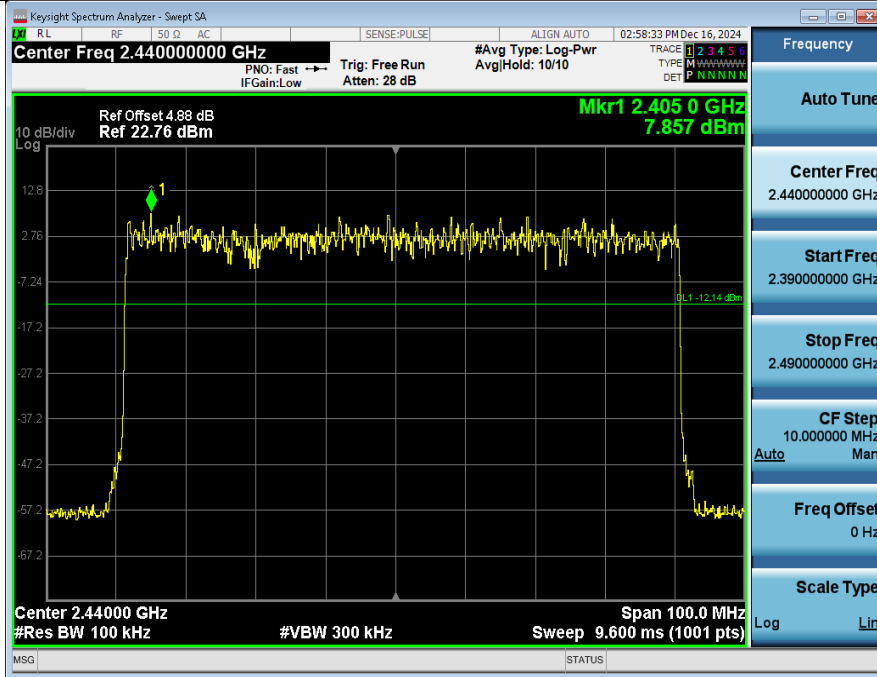


2_Bandedge_NVNT_ANT1_2-DH5_2402_00

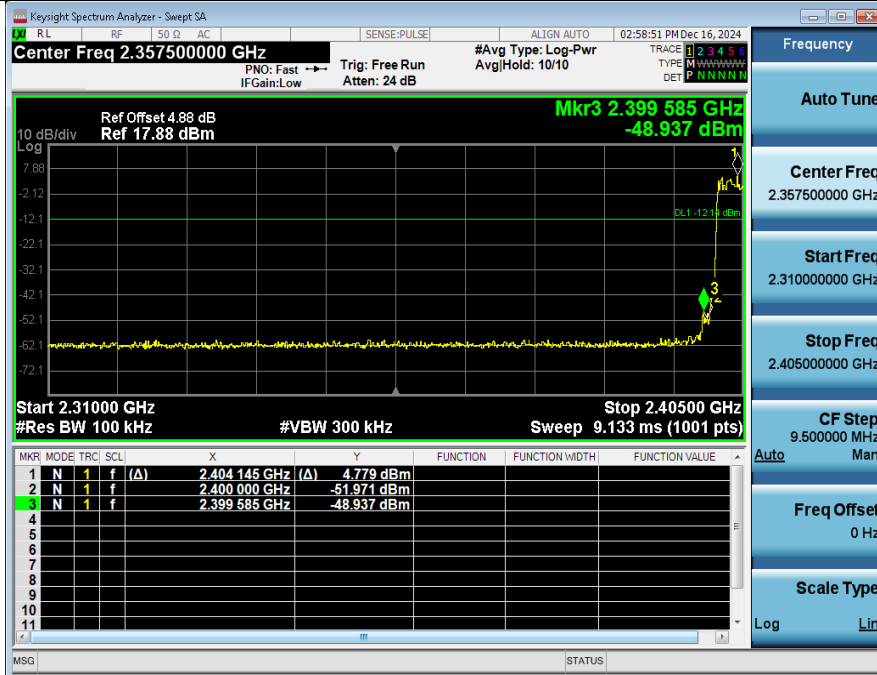


1_Reference_Level_Hopping_NVNT_ANT1_2-DH5_Hopping



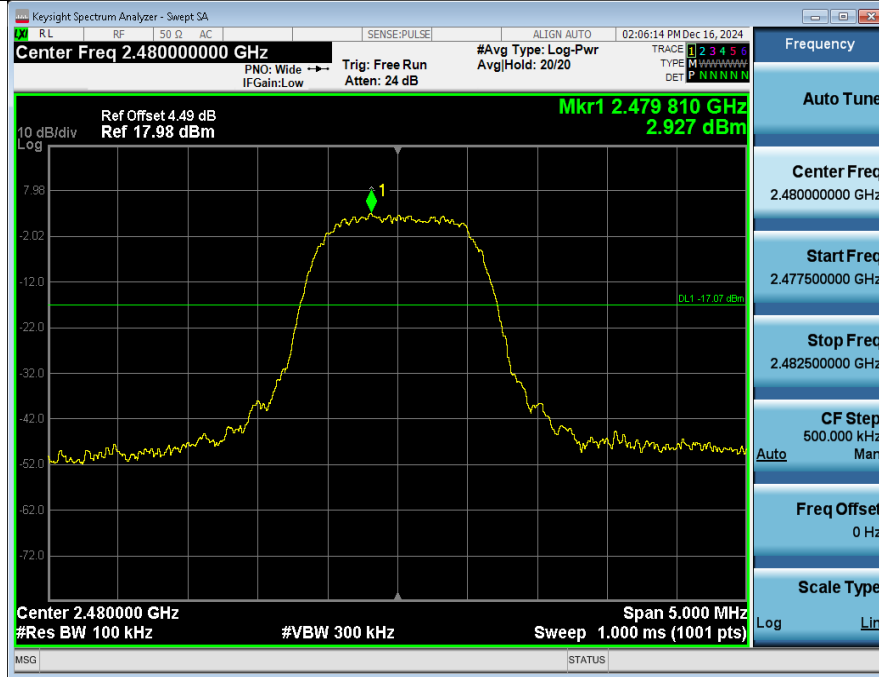


2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH5_Hopping

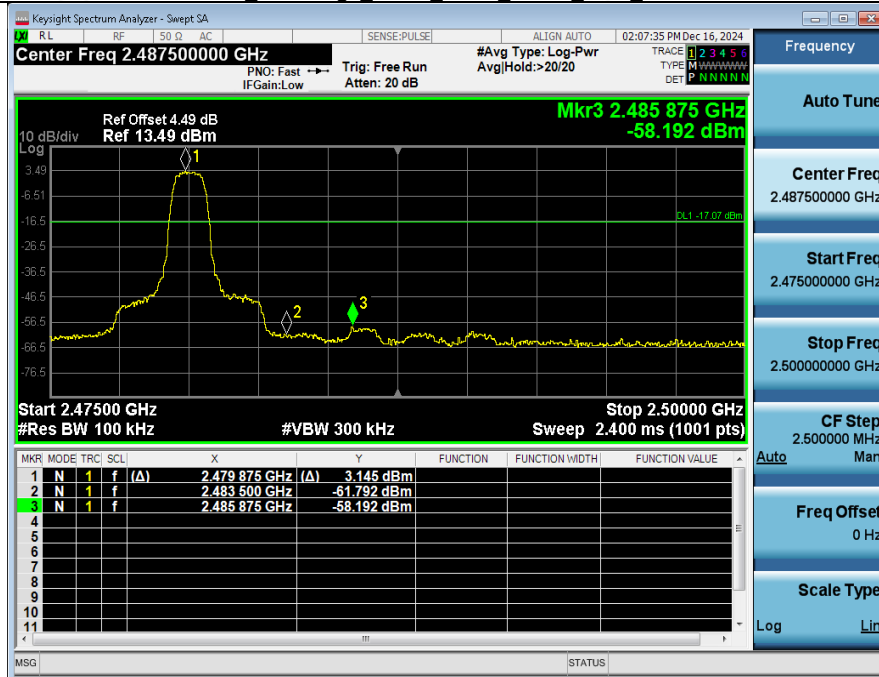


1_Reference_Level_NVNT_ANT1_2-DH5_2480_00



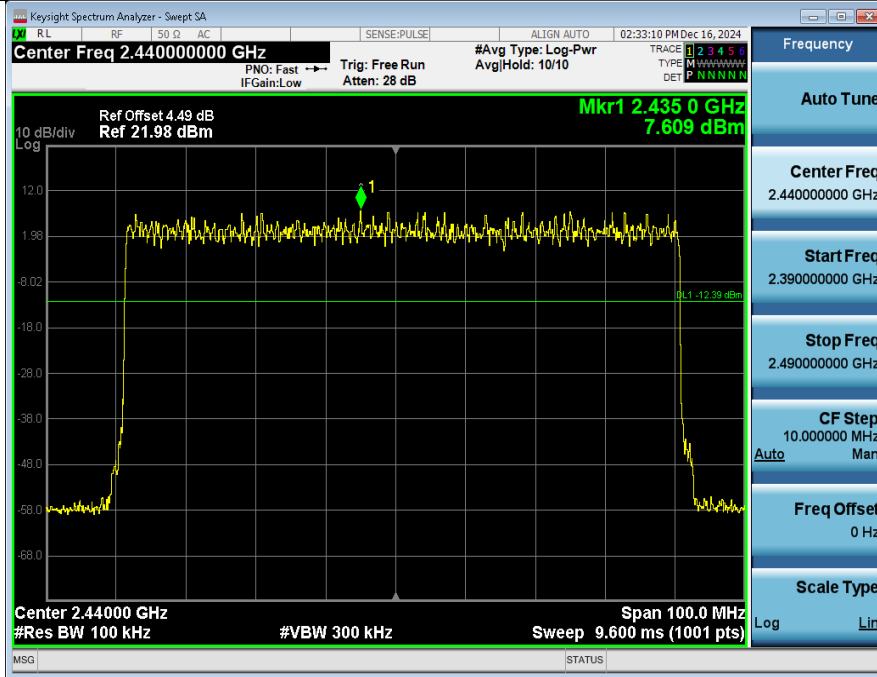


2_Bandedge_NVNT_ANT1_2-DH5_2480_00



1_Reference_Level_Hopping_NVNT_ANT1_2-DH5_Hopping





2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH5_Hopping

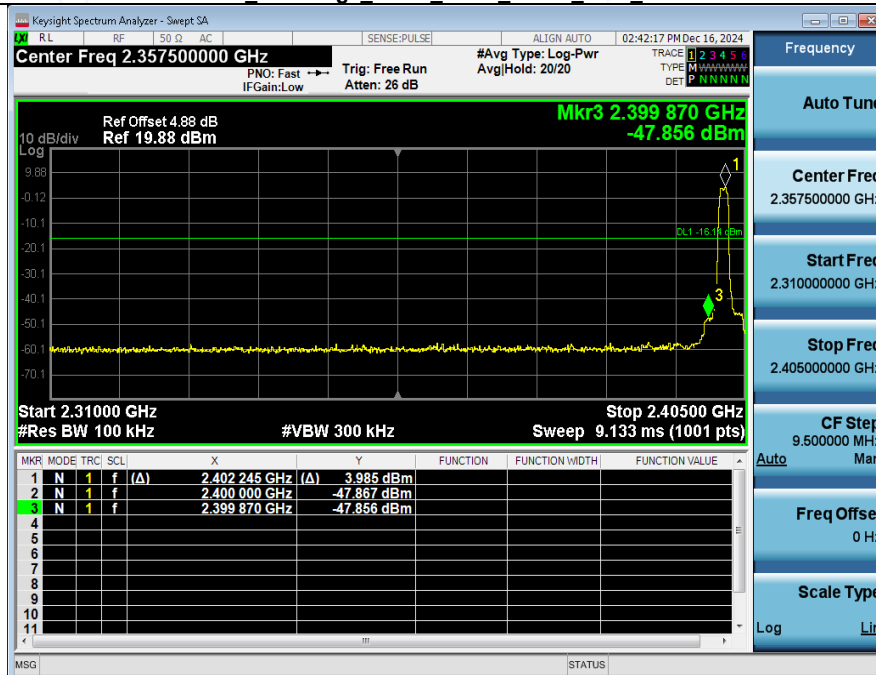


1_Reference_Level_NVNT_ANT1_3-DH5_2402_00



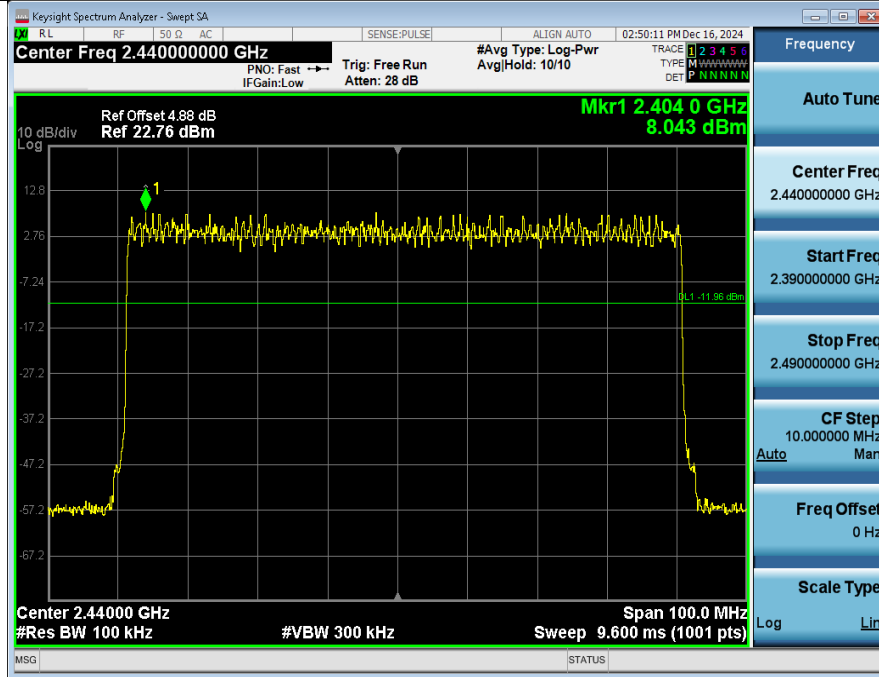


2_Bandedge_NVNT_ANT1_3-DH5_2402_00

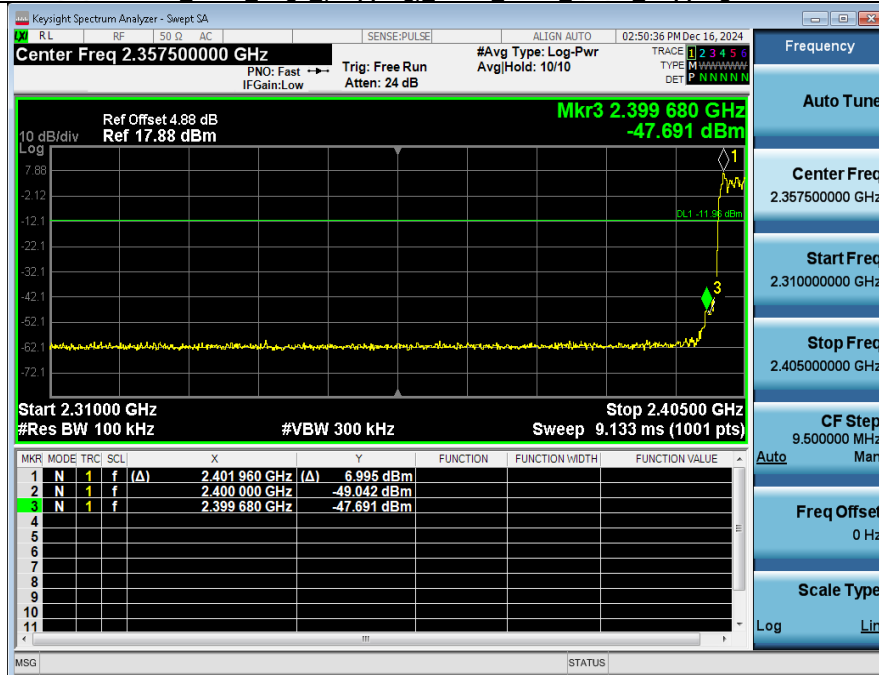


1_Reference_Level_Hopping_NVNT_ANT1_3-DH5_Hopping



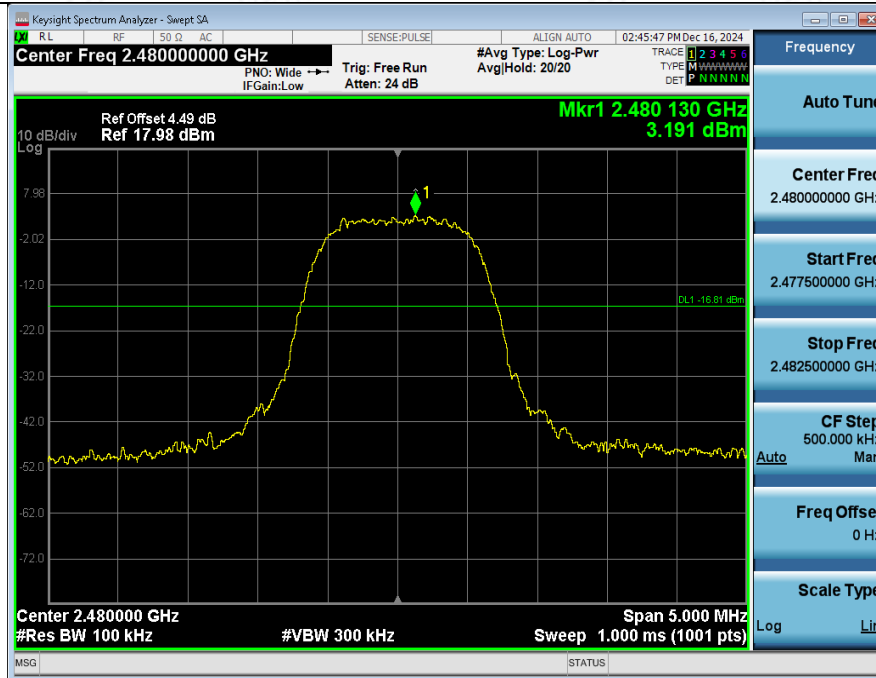


2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH5_Hopping

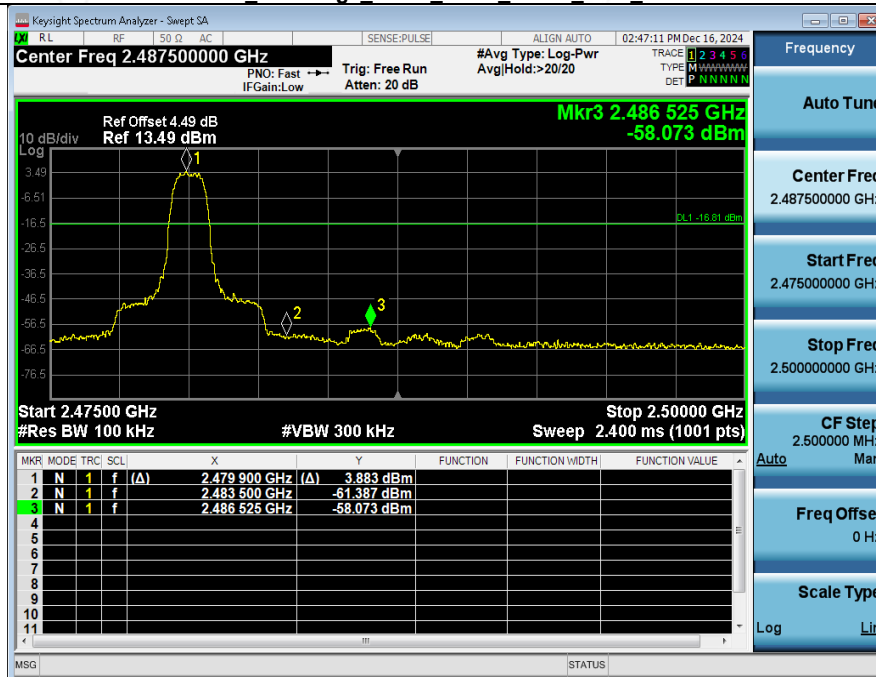


1_Reference_Level_NVNT_ANT1_3-DH5_2480_00



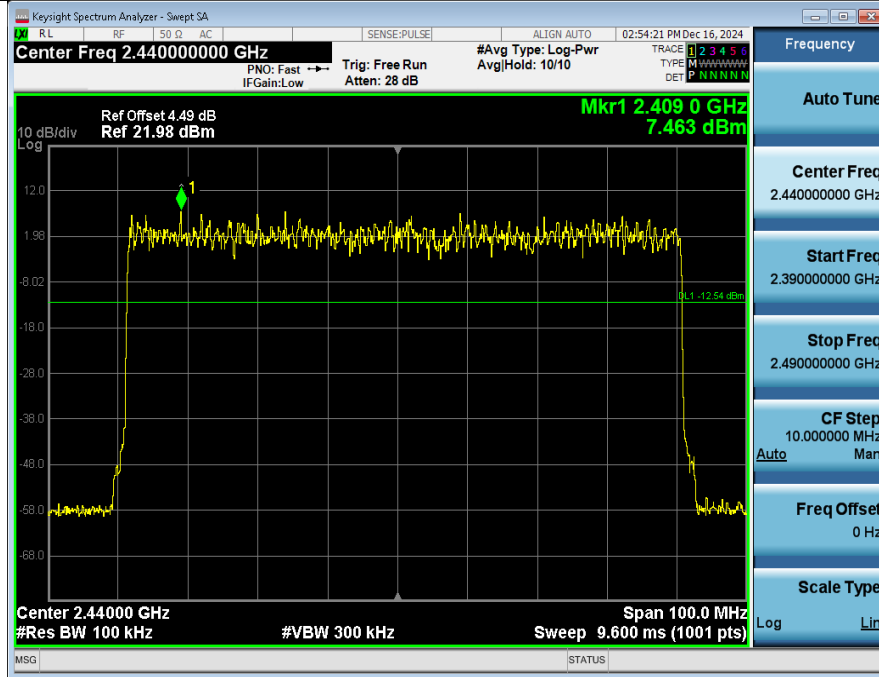


2_Bandedge_NVNT_ANT1_3-DH5_2480_00



1_Reference_Level_Hopping_NVNT_ANT1_3-DH5_Hopping





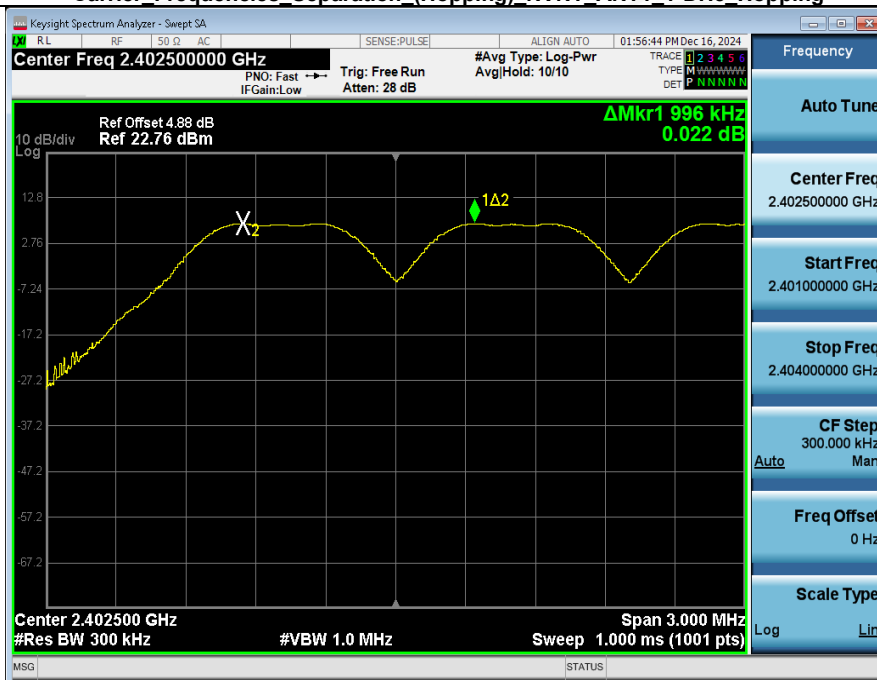
2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH5_Hopping



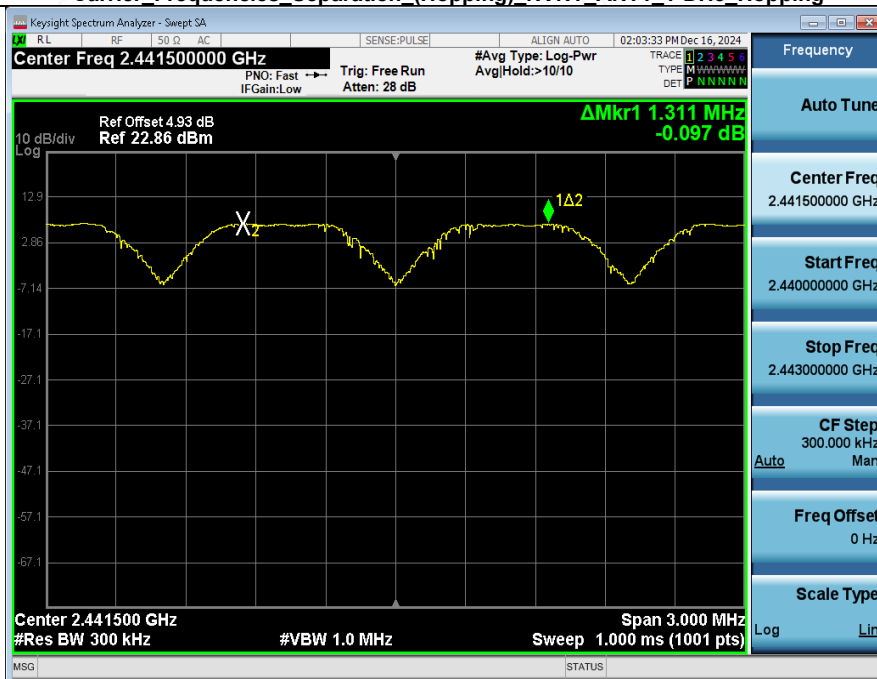
7. Carrier Frequencies Separation (Hopping)

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	2401.843	2402.839	1.00	0.674	Pass
NVNT	ANT1	1-DH5	2441.00	2440.846	2442.157	1.31	0.673	Pass
NVNT	ANT1	1-DH5	2480.00	2478.858	2479.851	0.99	0.679	Pass
NVNT	ANT1	2-DH5	2402.00	2401.975	2402.986	1.01	0.905	Pass
NVNT	ANT1	2-DH5	2441.00	2440.828	2442.031	1.20	0.907	Pass
NVNT	ANT1	2-DH5	2480.00	2478.963	2480.163	1.20	0.901	Pass
NVNT	ANT1	3-DH5	2402.00	2402.017	2402.980	0.96	0.905	Pass
NVNT	ANT1	3-DH5	2441.00	2440.852	2441.818	0.97	0.911	Pass
NVNT	ANT1	3-DH5	2480.00	2478.828	2480.004	1.18	0.904	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

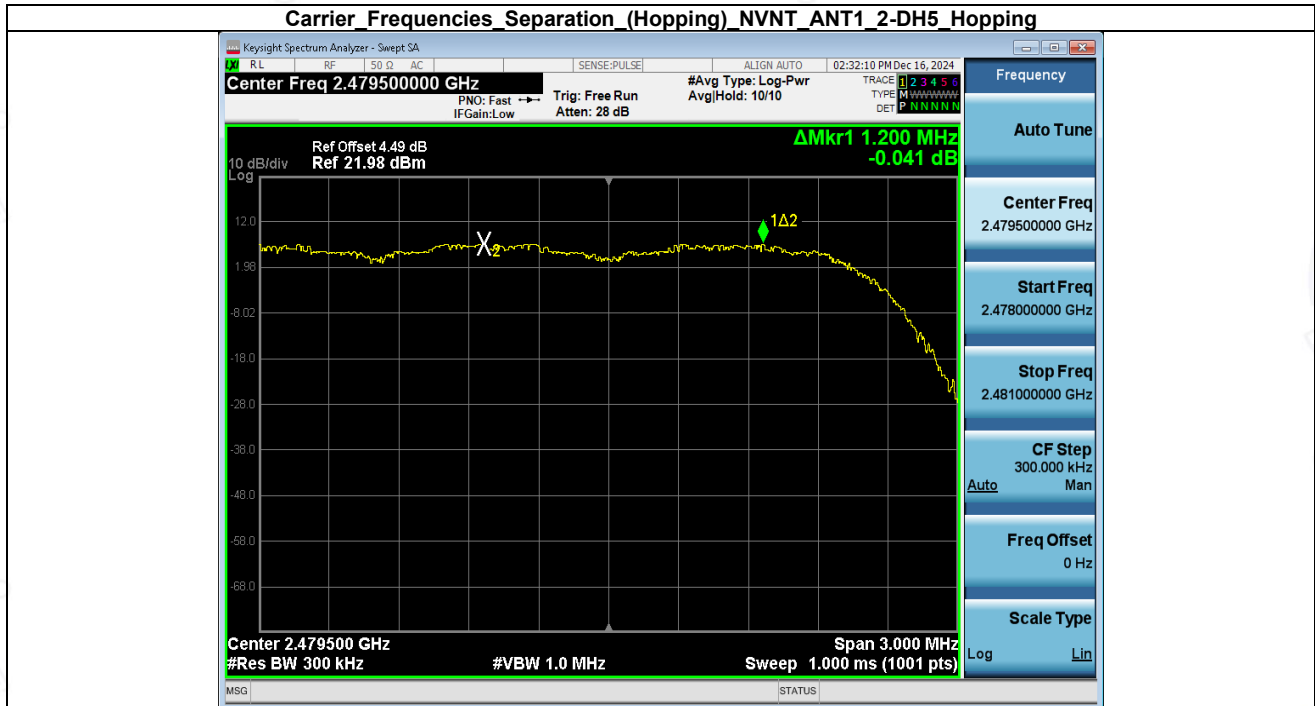


Carrier Frequencies Separation (Hopping) NVNT ANT1 2-DH5 Hopping



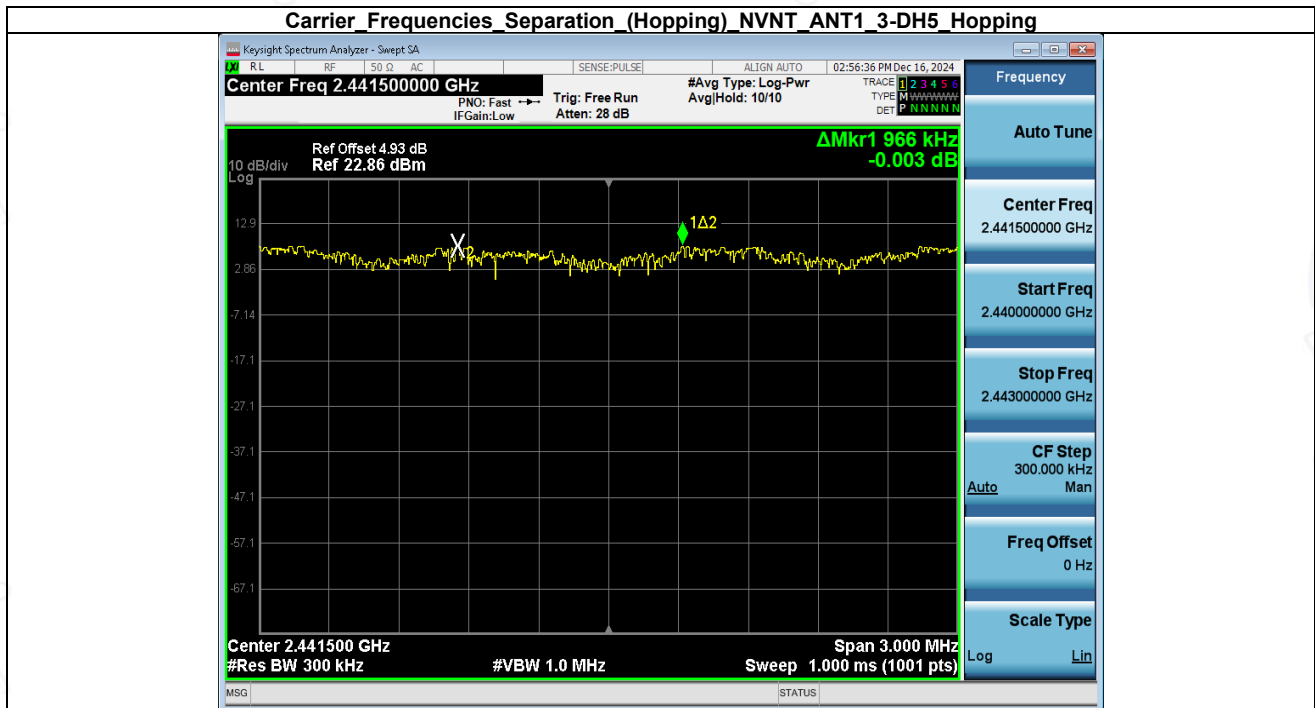


Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH5_Hopping



Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH5_Hopping





Carrier Frequencies Separation (Hopping) NVNT ANT1 3-DH5 Hopping

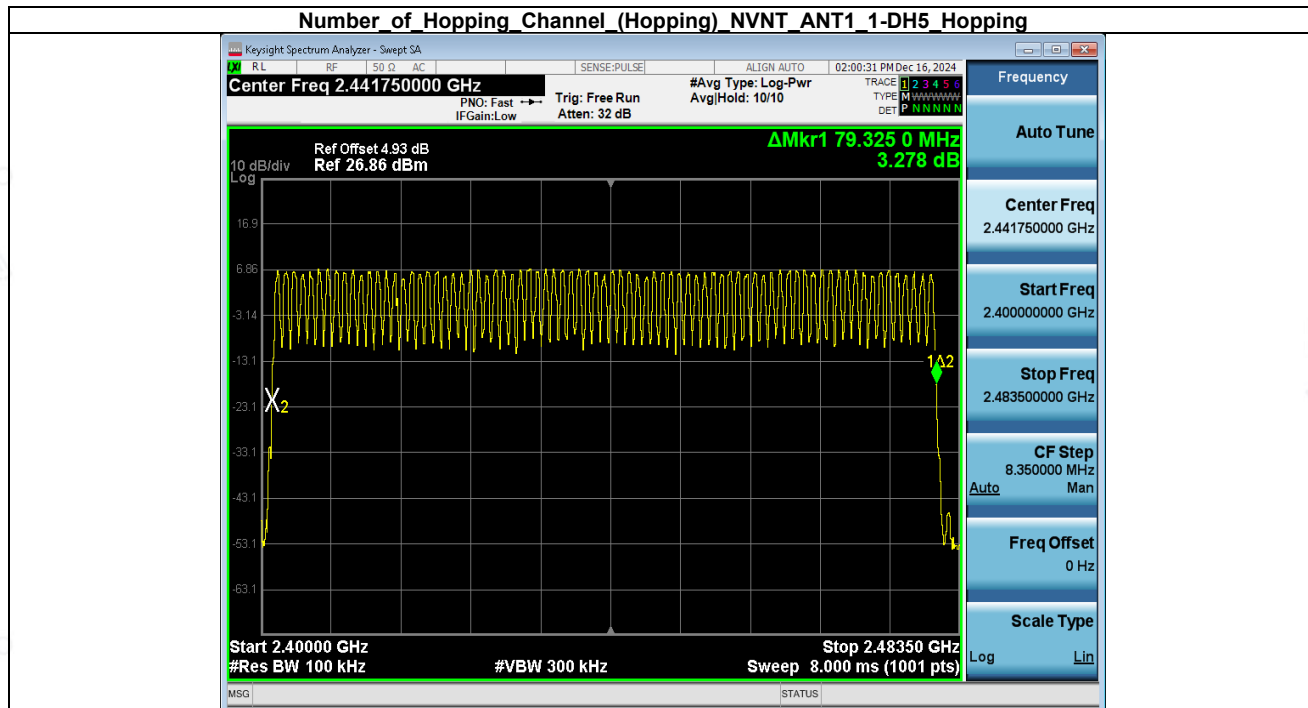




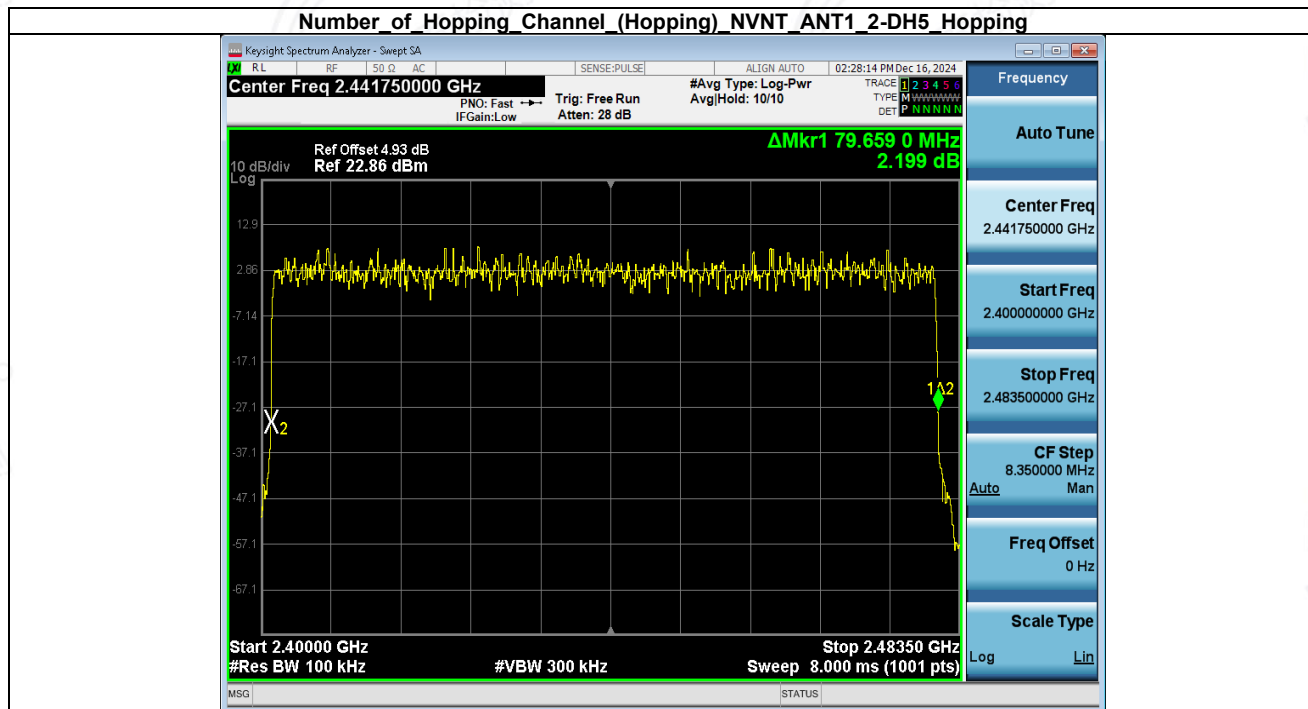
8. Number of Hopping Channel (Hopping)

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

Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_1-DH5_Hopping

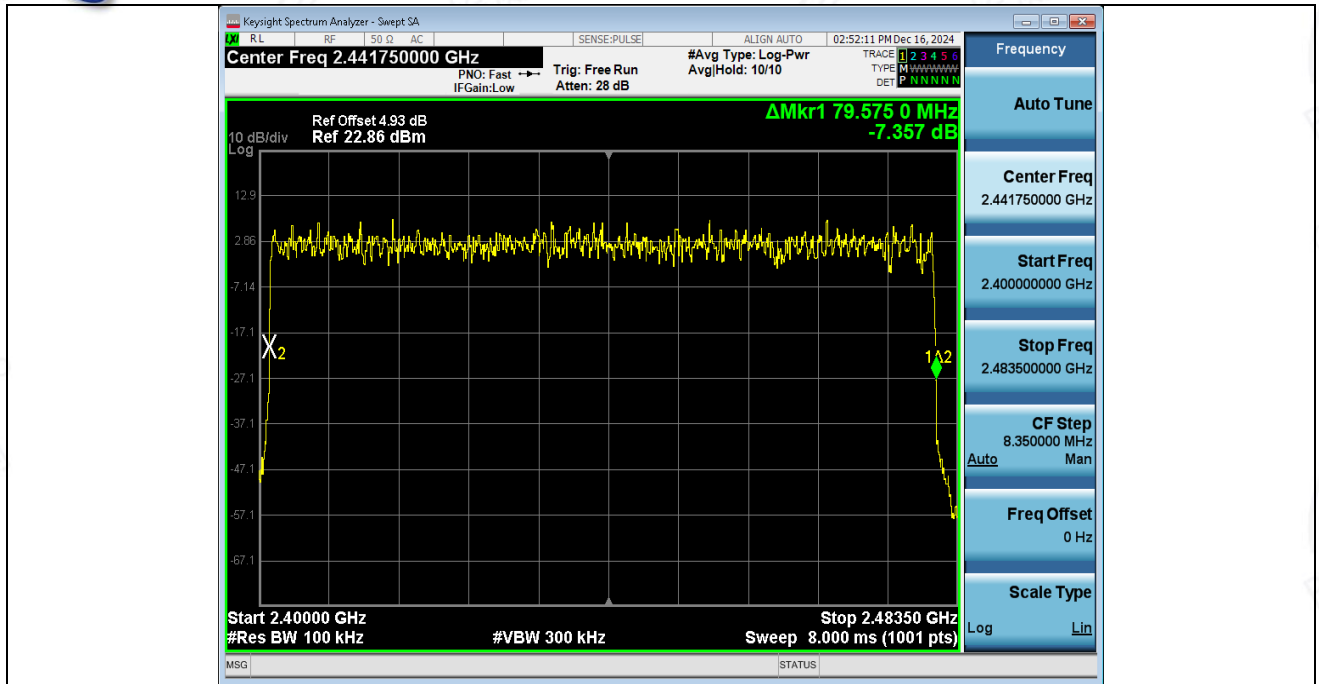


Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_2-DH5_Hopping



Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_3-DH5_Hopping

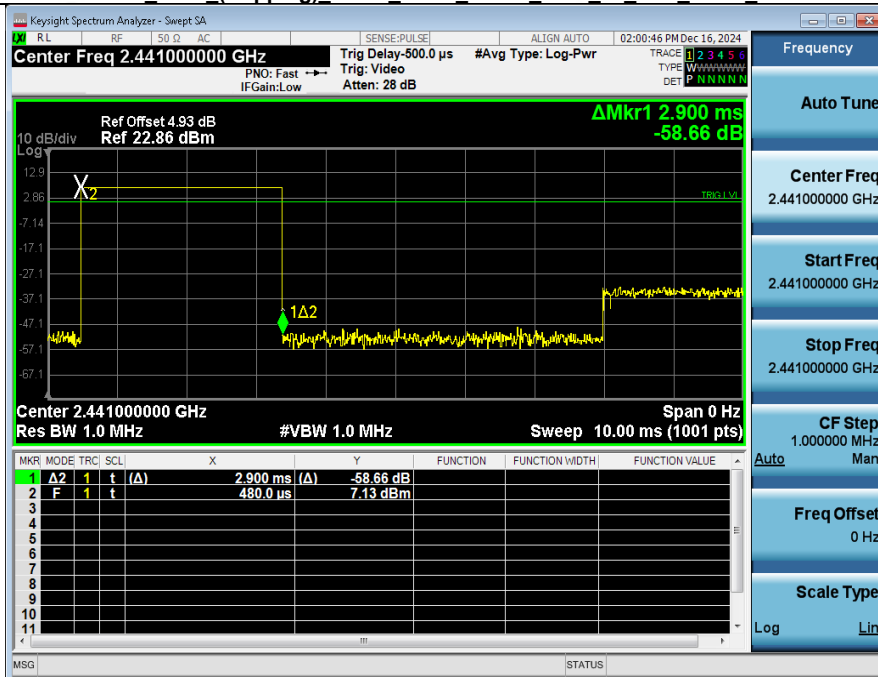




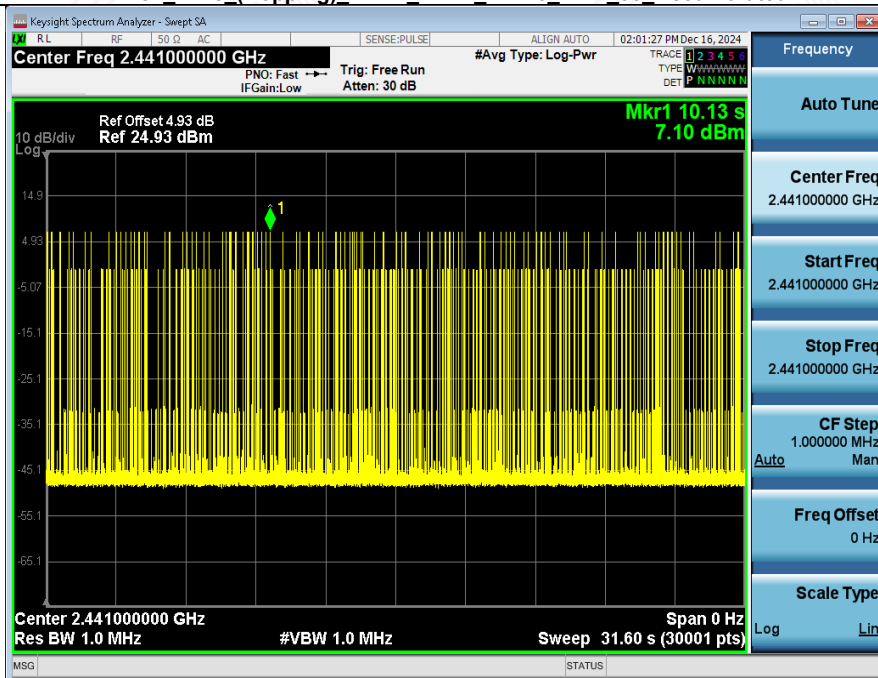
9. Dwell Time (Hopping)

Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH5	2.900	115.00	333.500	0.40	Pass
NVNT	ANT1	2-DH5	2.900	109.00	316.100	0.40	Pass
NVNT	ANT1	3-DH5	2.910	101.00	293.910	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



