

Appendix

Test Data

for BTEK241111036A01E02

Start date	2024/12/16	Finish date	2024/12/16
Temperature	18.9℃	Humidity	28%
RF specifications	BT	Test Engineer	Zora



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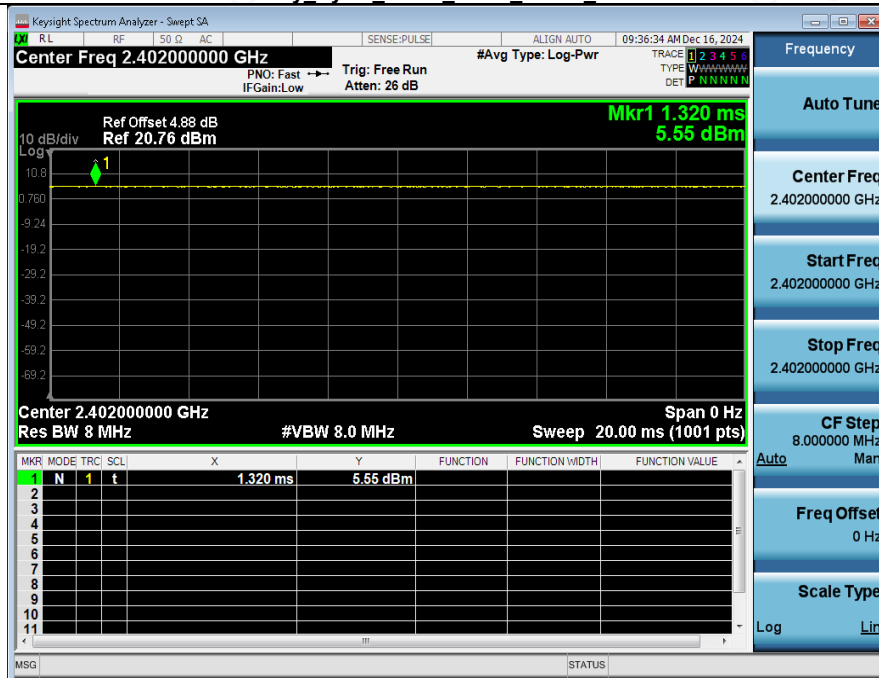
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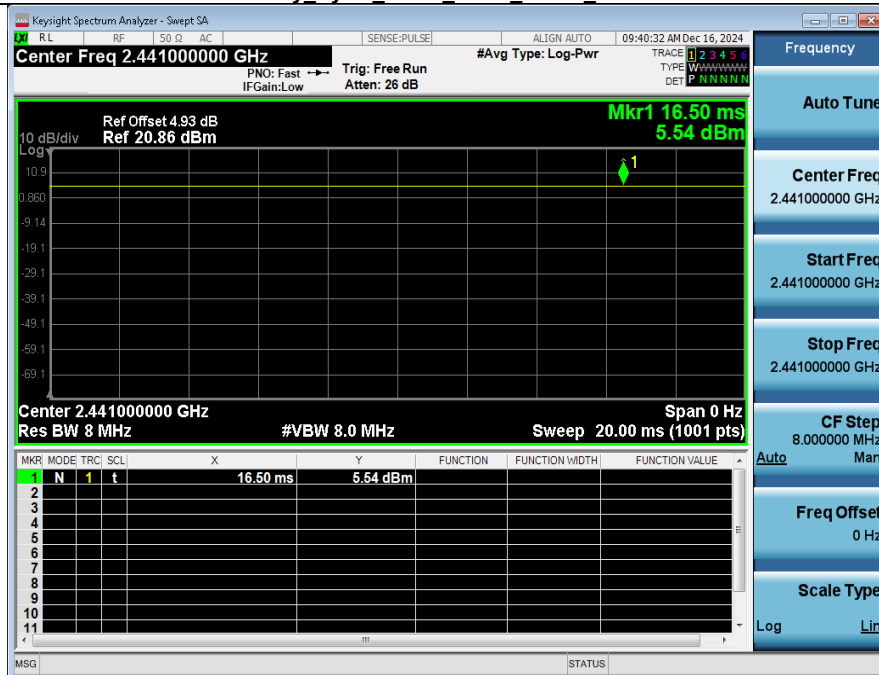
1. Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1-DH5	2402.00	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

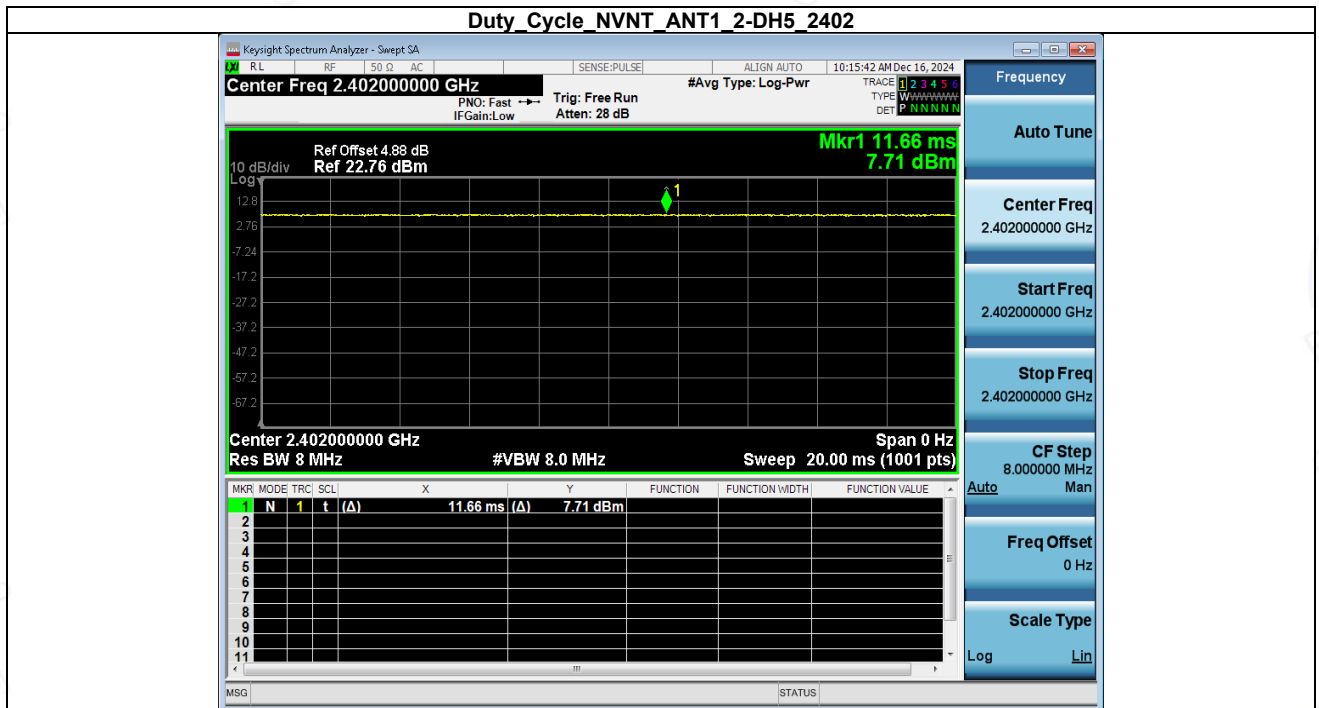
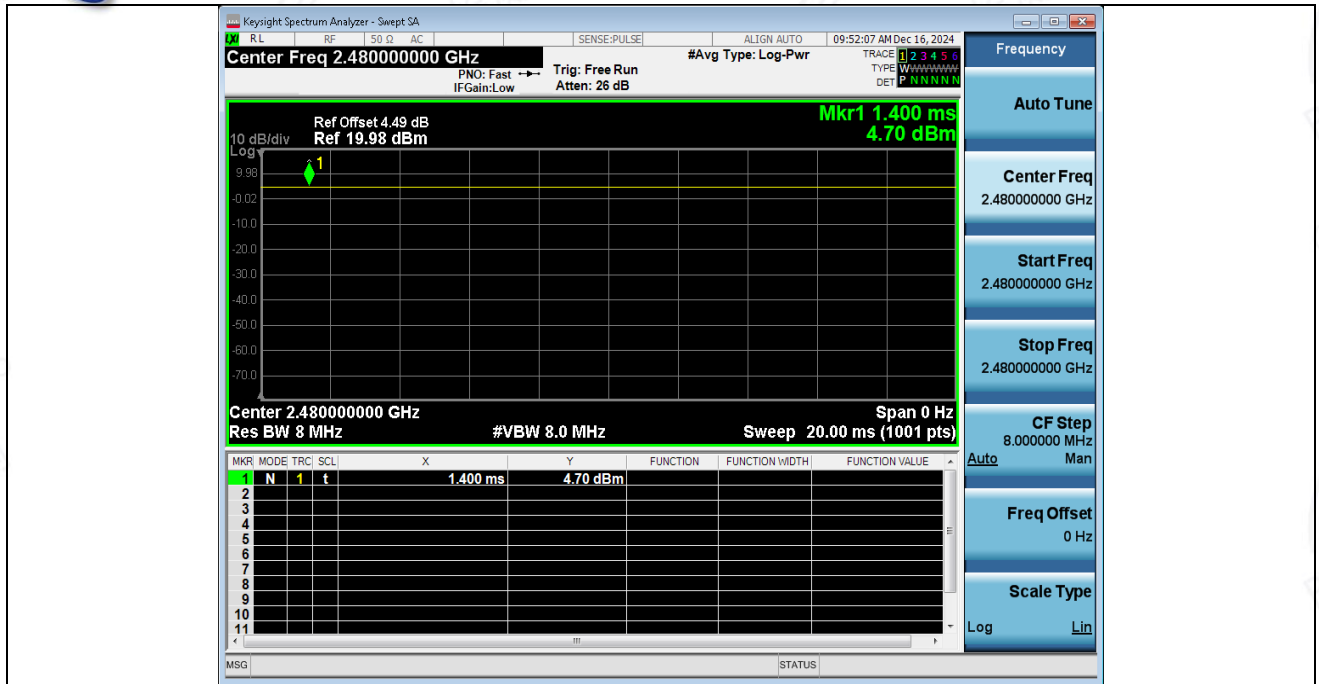


Duty_Cycle_NVNT_ANT1_1-DH5_2441



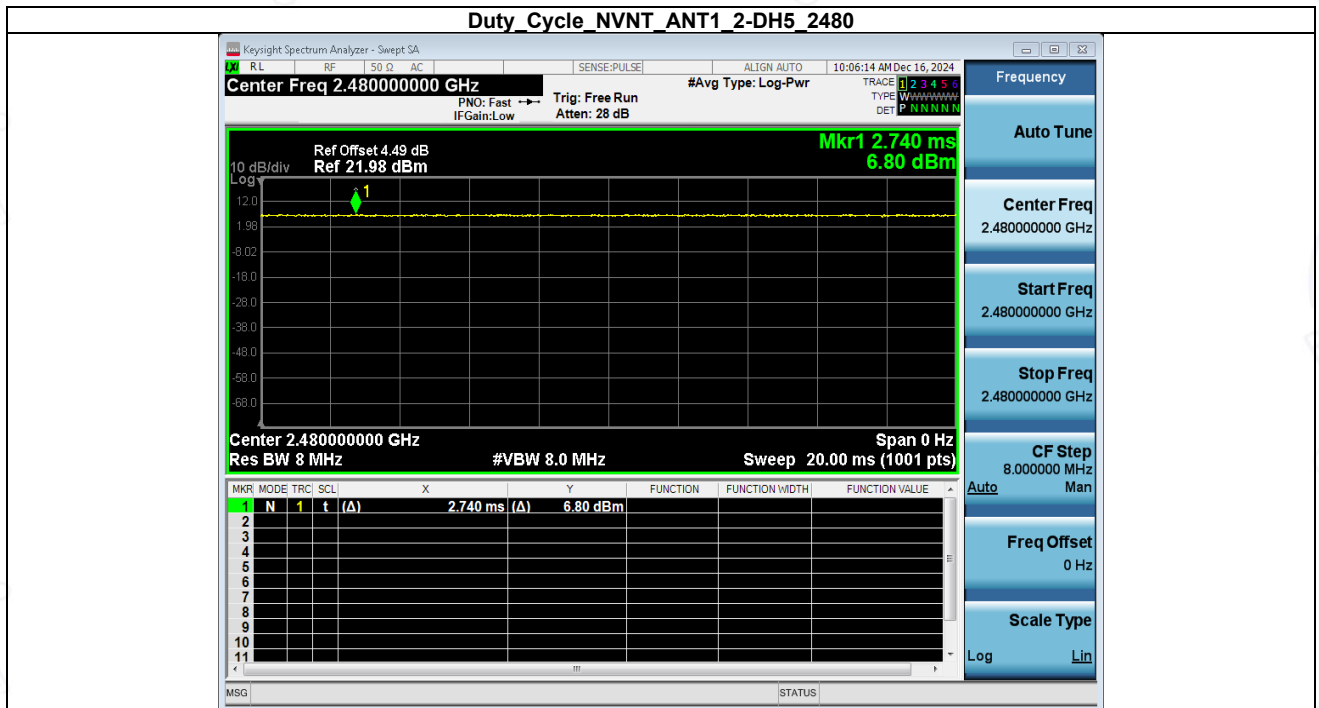
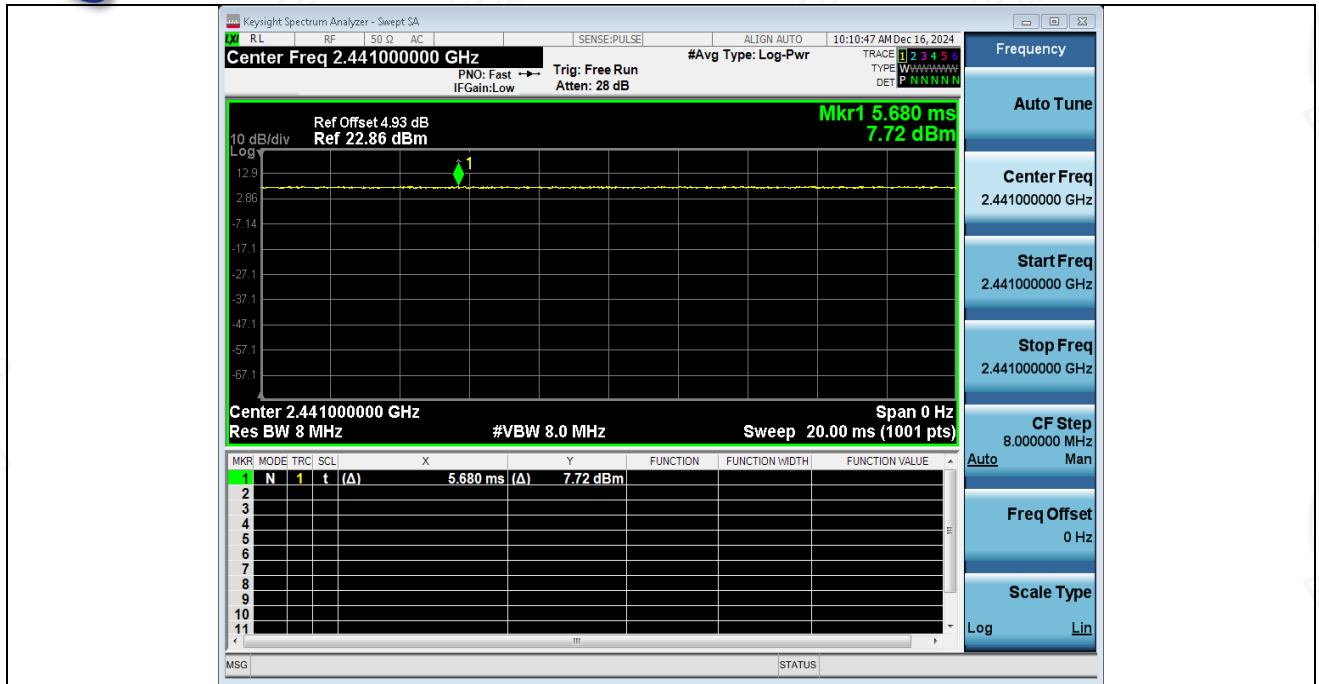
Duty_Cycle_NVNT_ANT1_1-DH5_2480





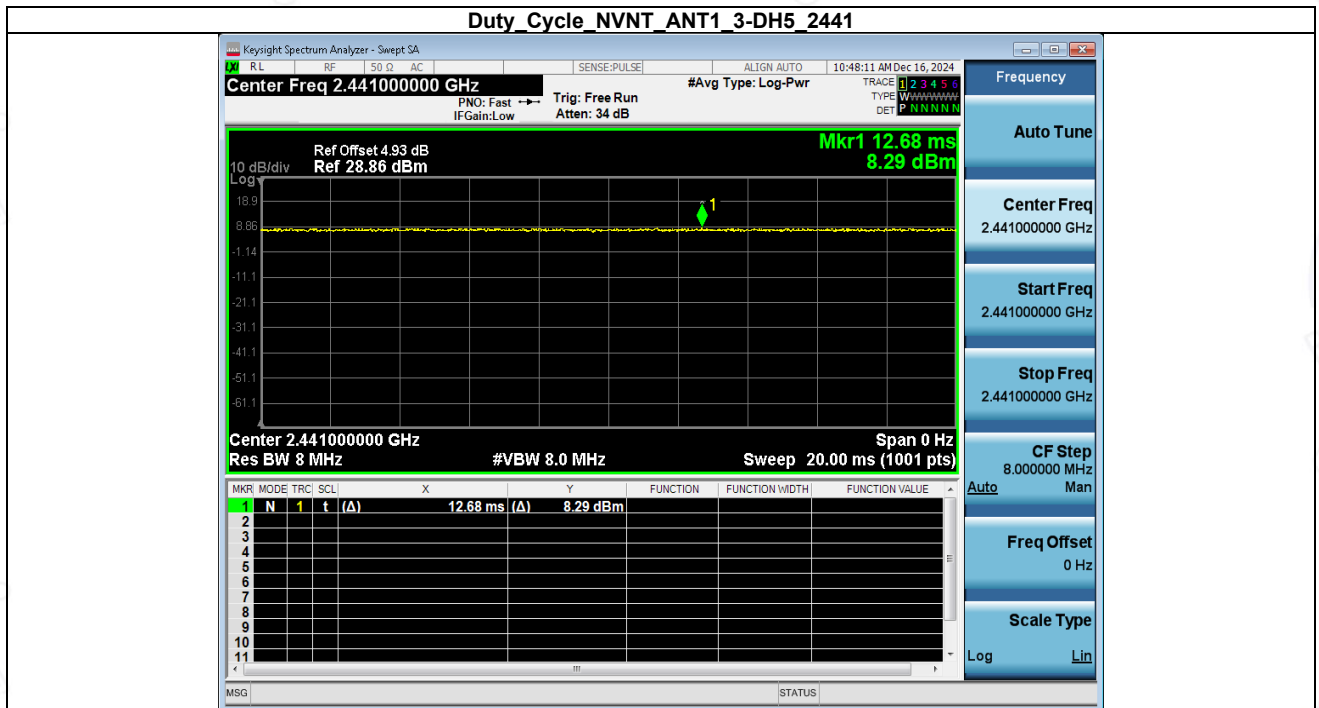
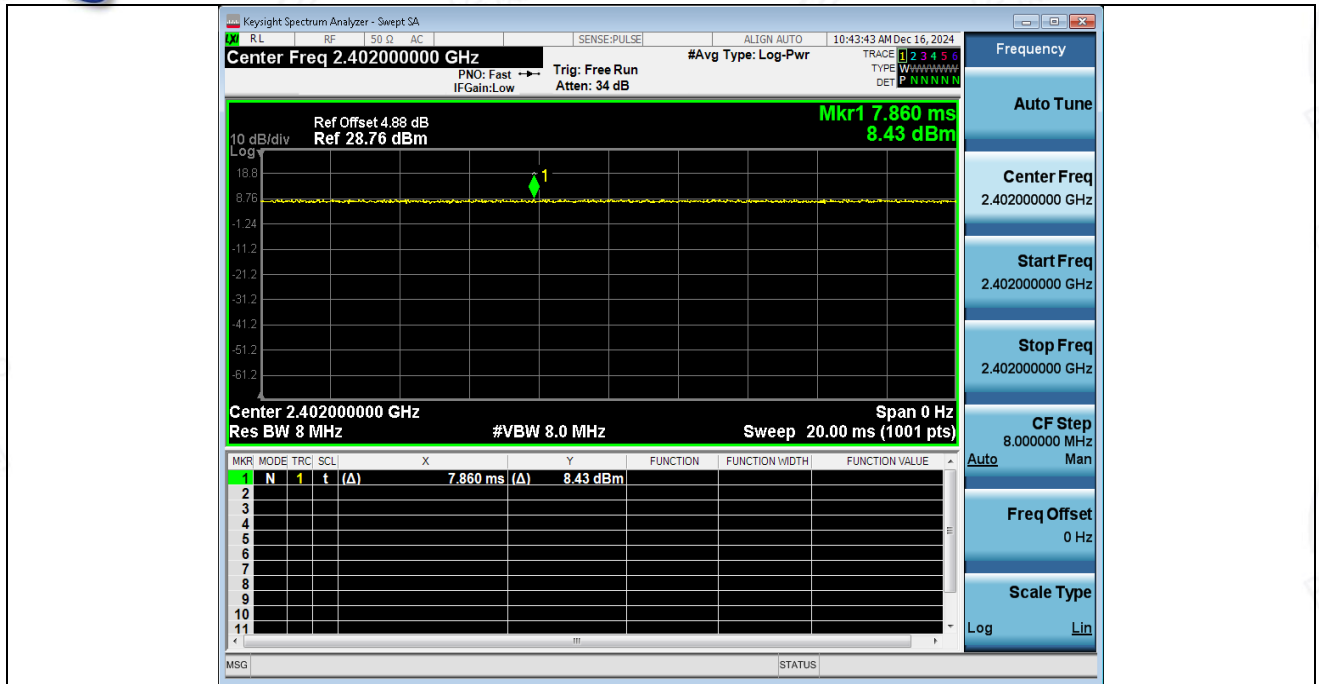
Duty Cycle_NVNT_ANT1_2-DH5_2441





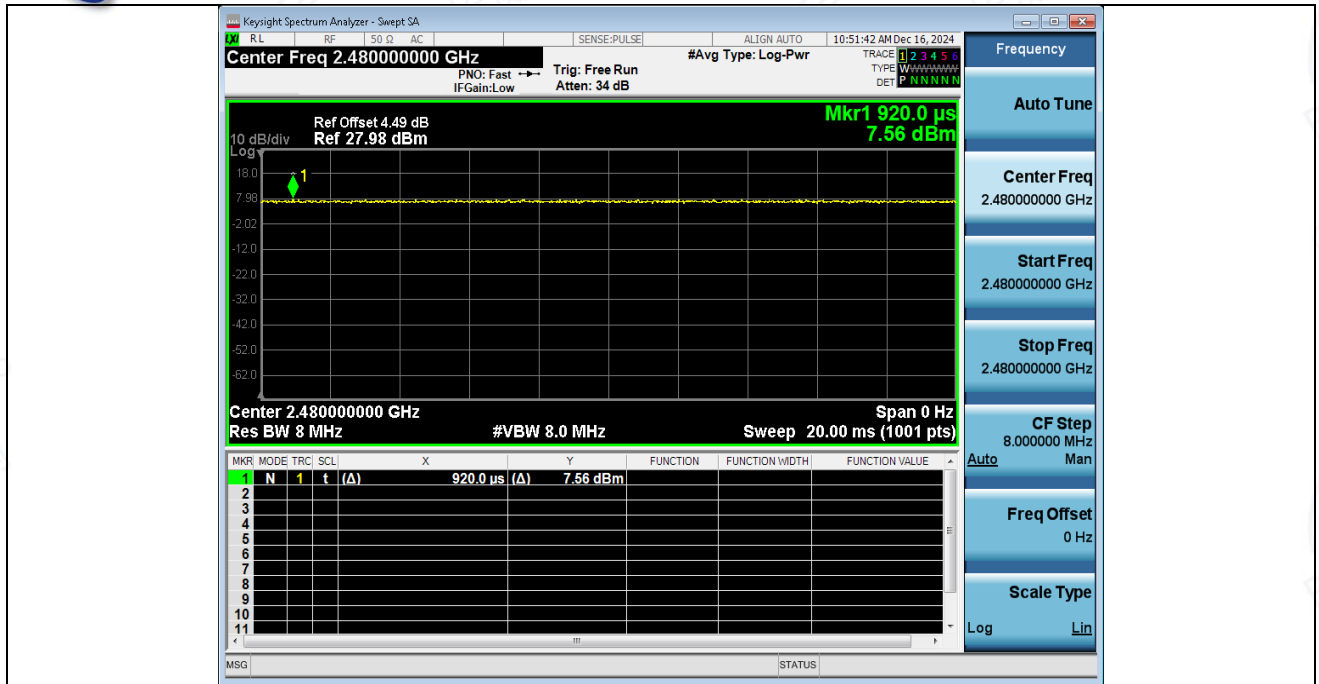
Duty Cycle_NVNT_ANT1_3-DH5_2402





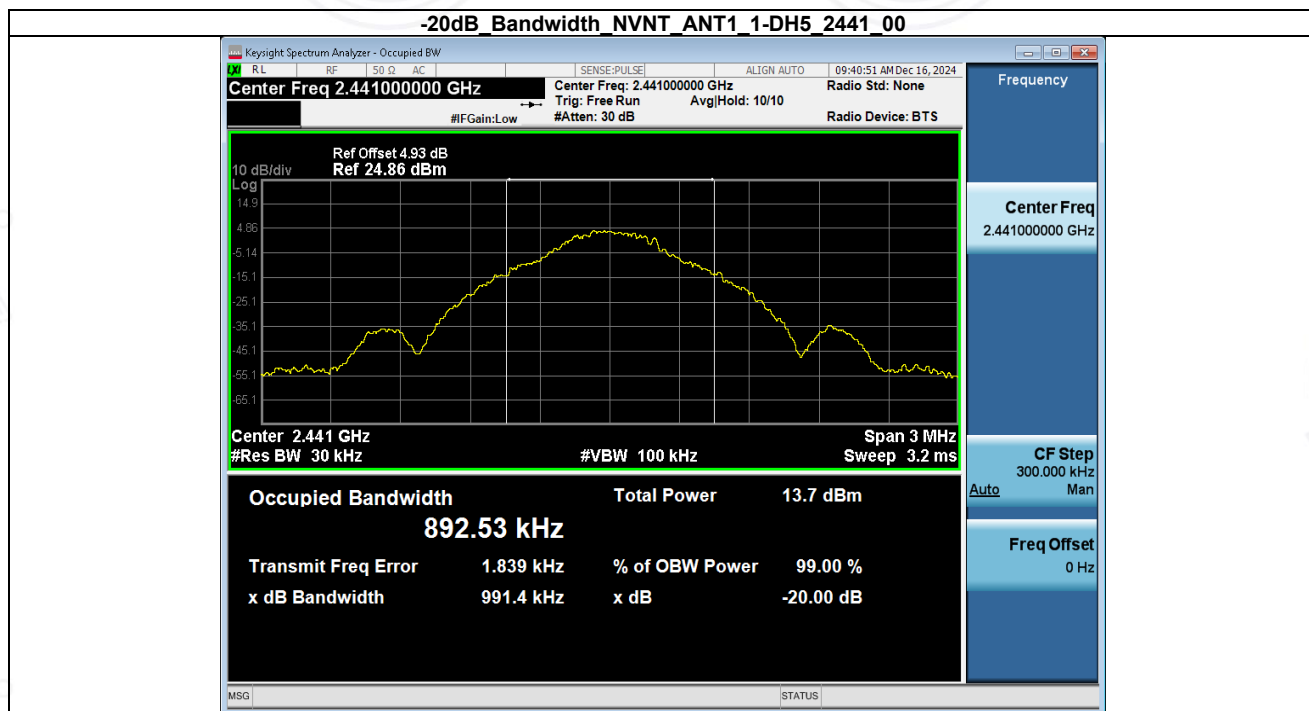
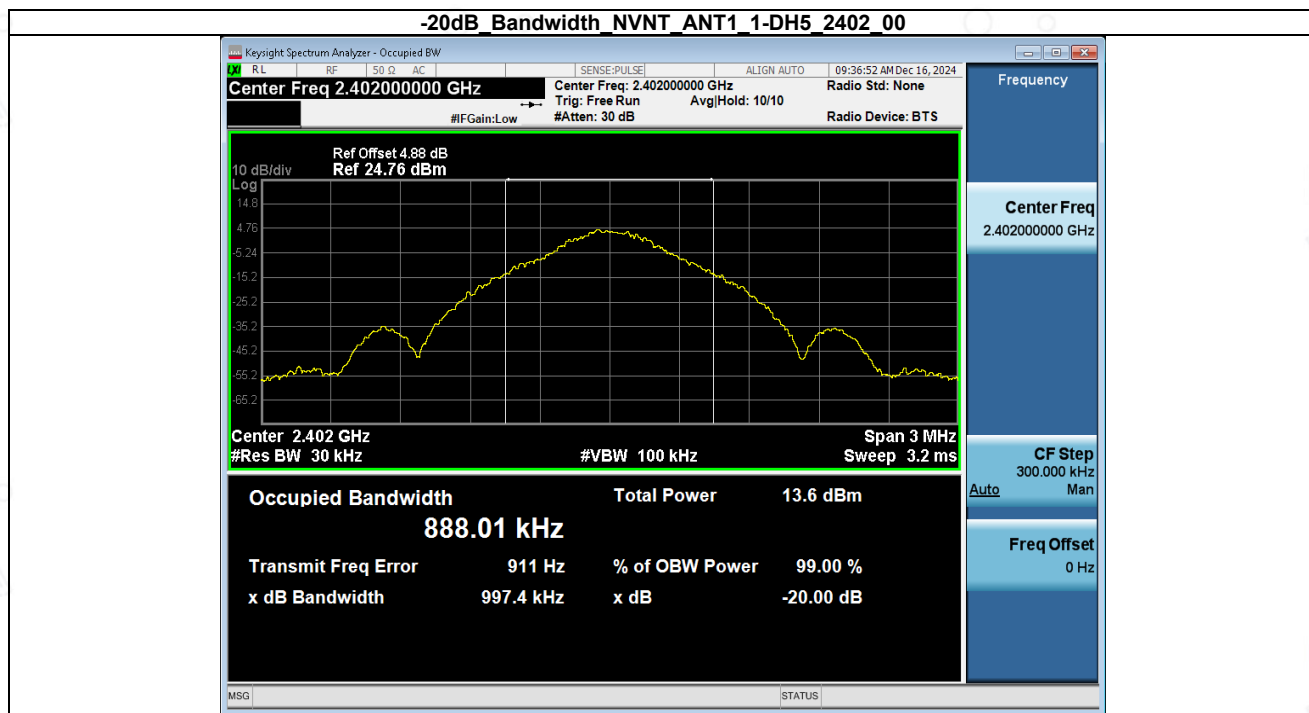
Duty Cycle_NVNT_ANT1_3-DH5_2480

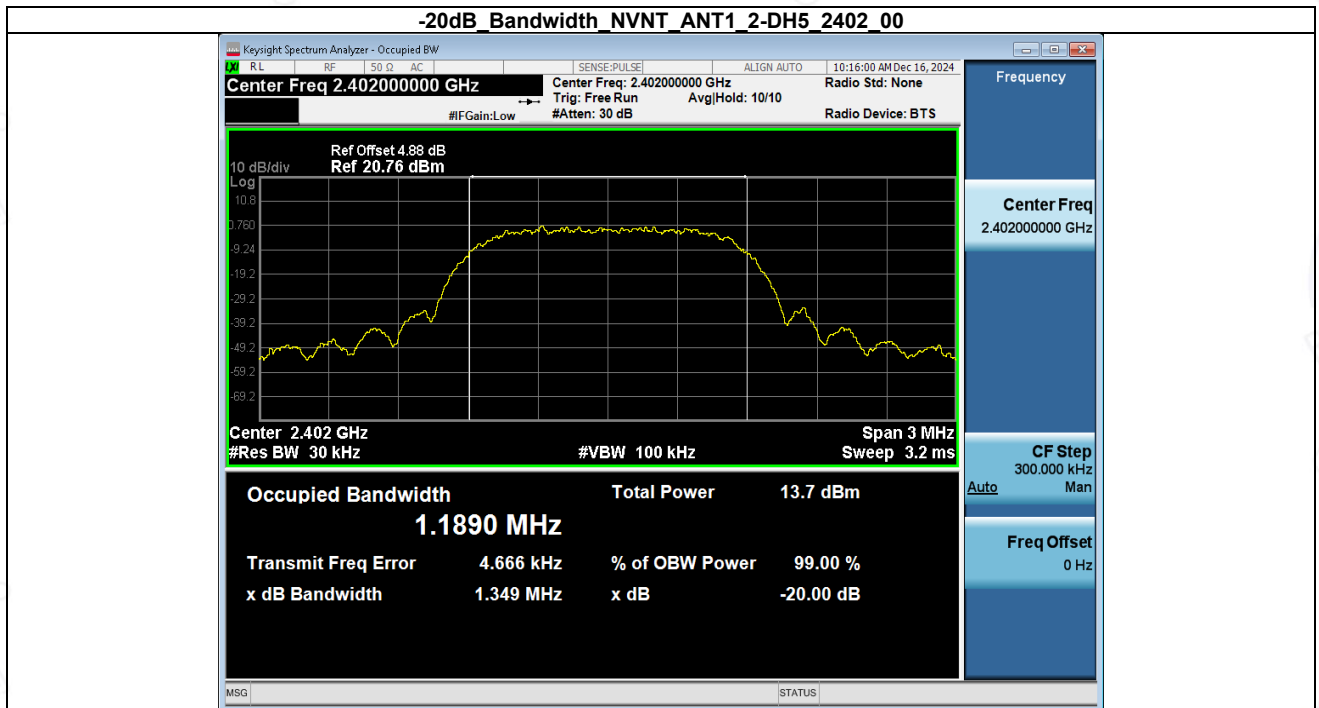
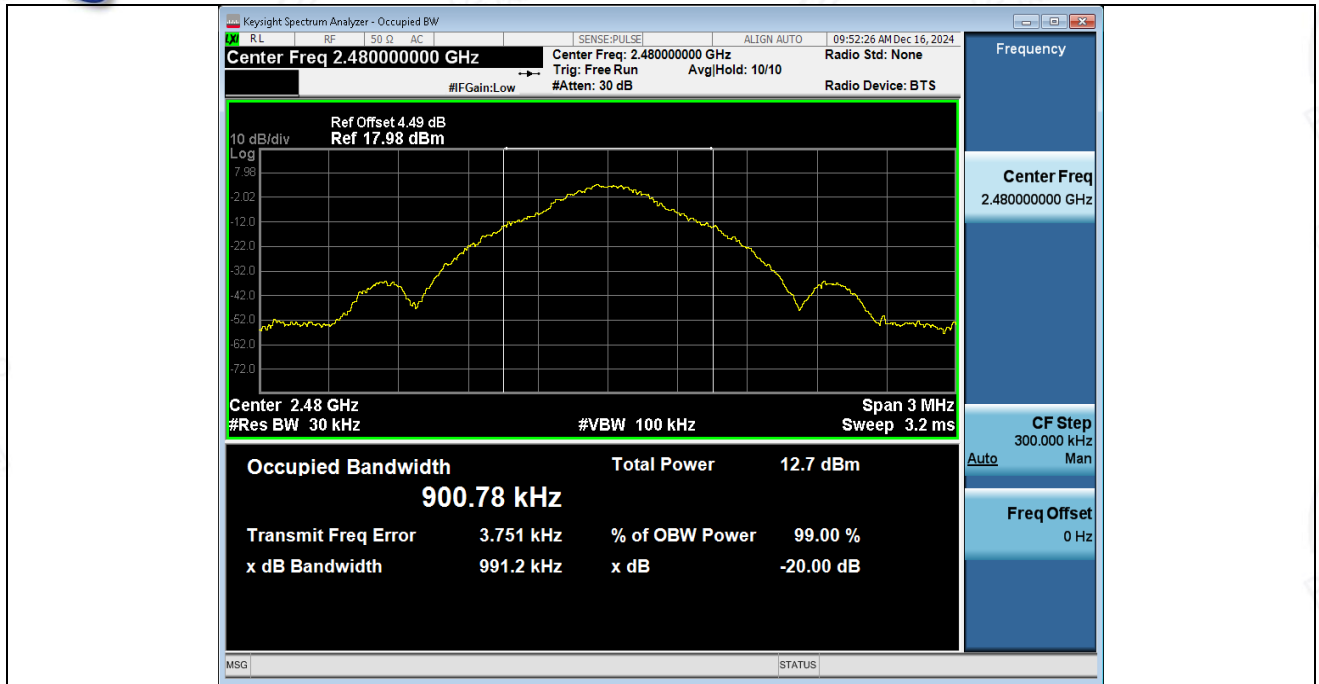


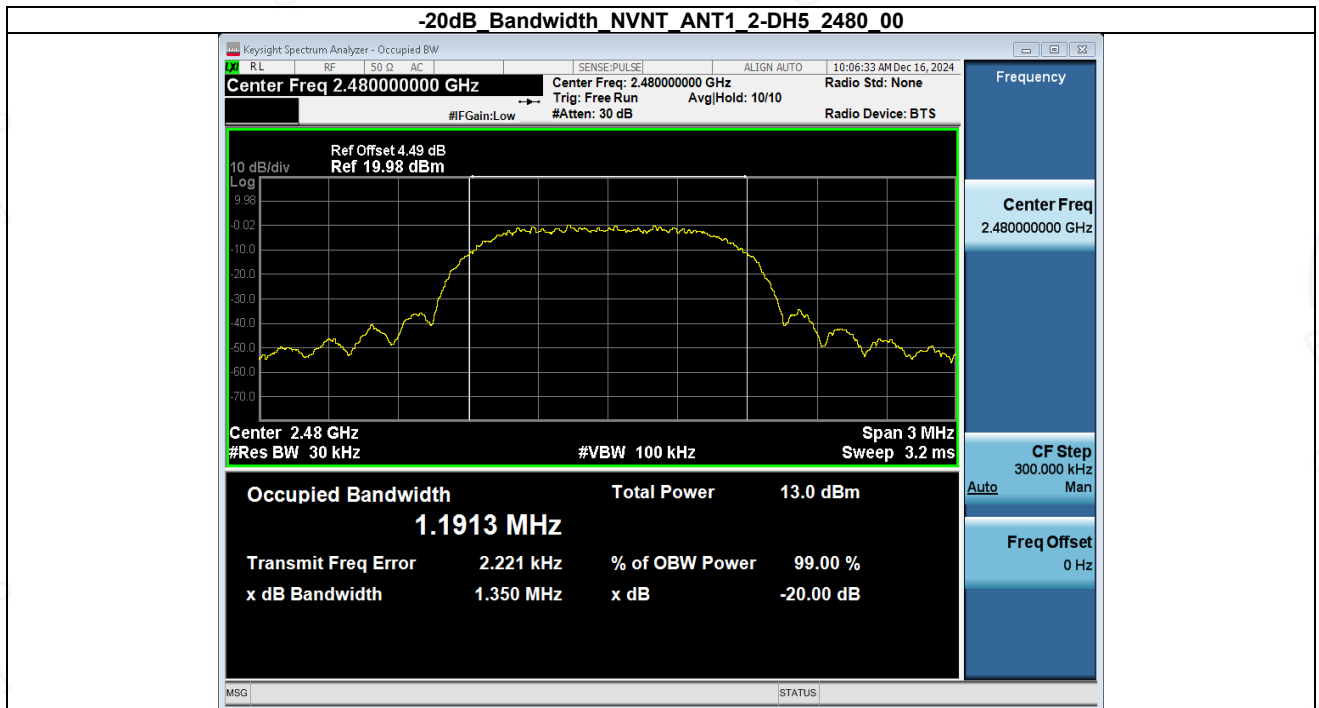
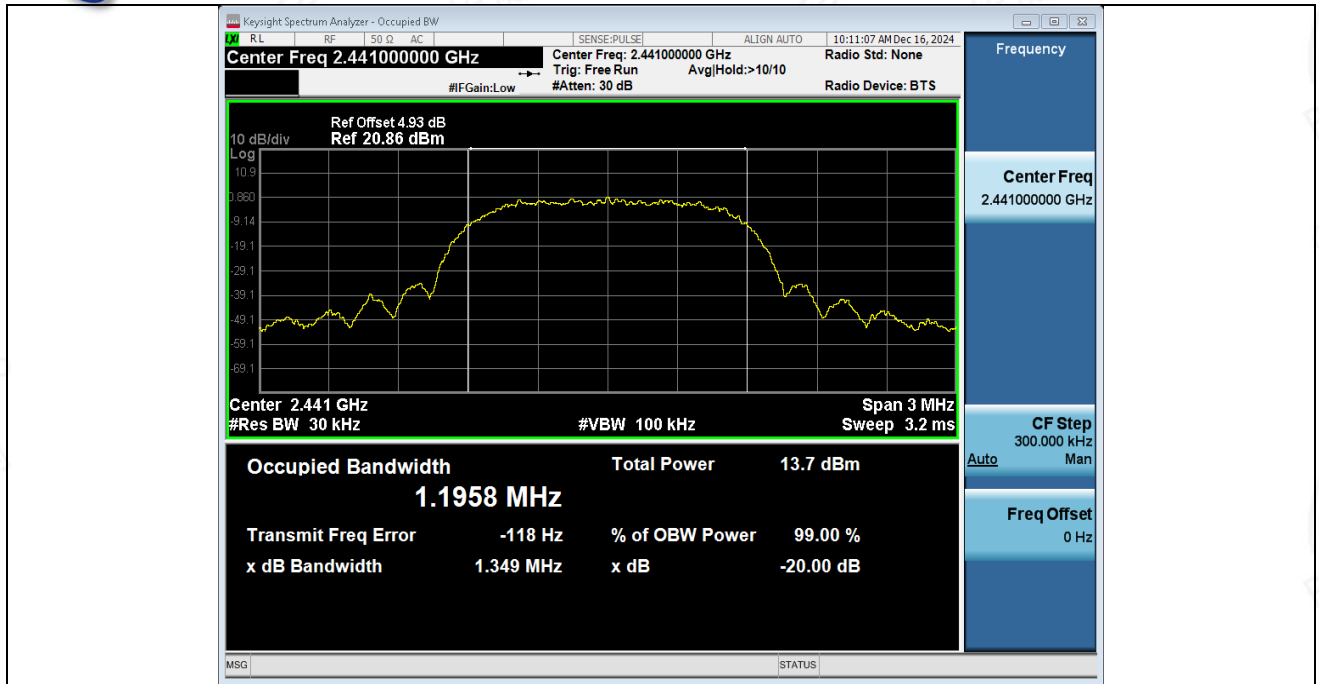


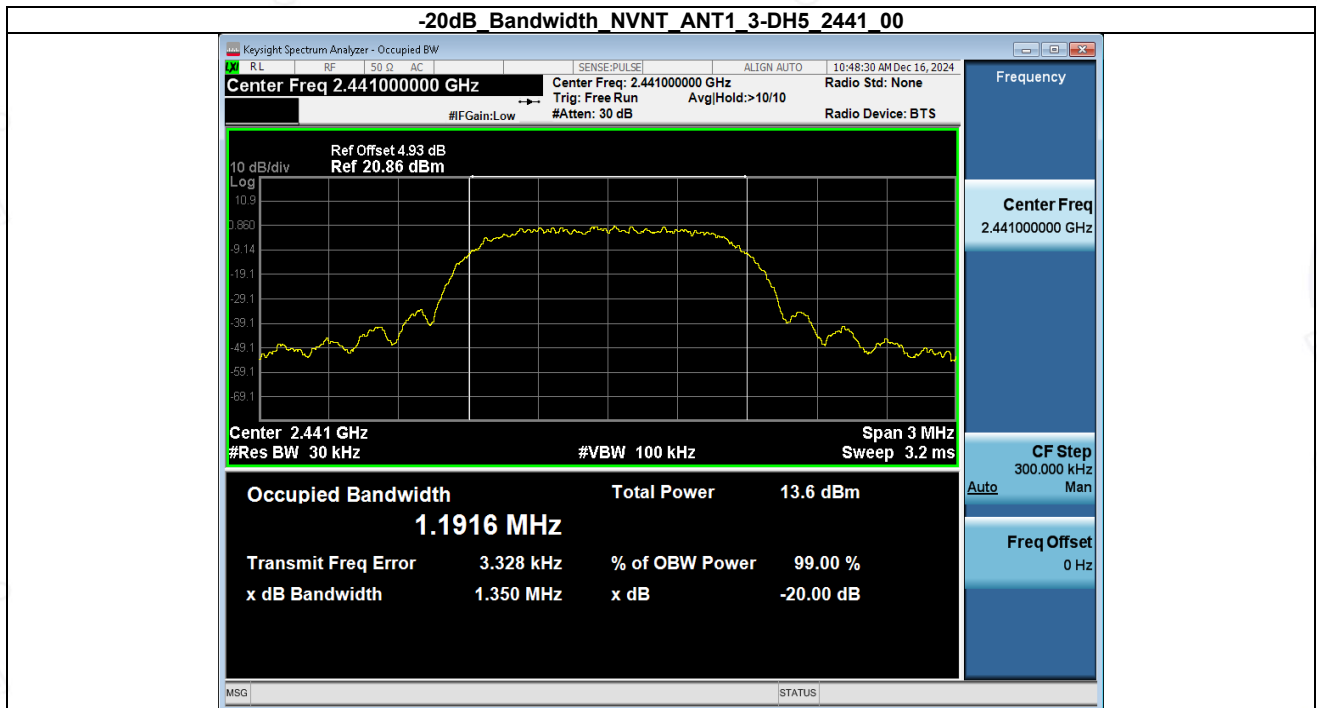
2. -20dB Bandwidth

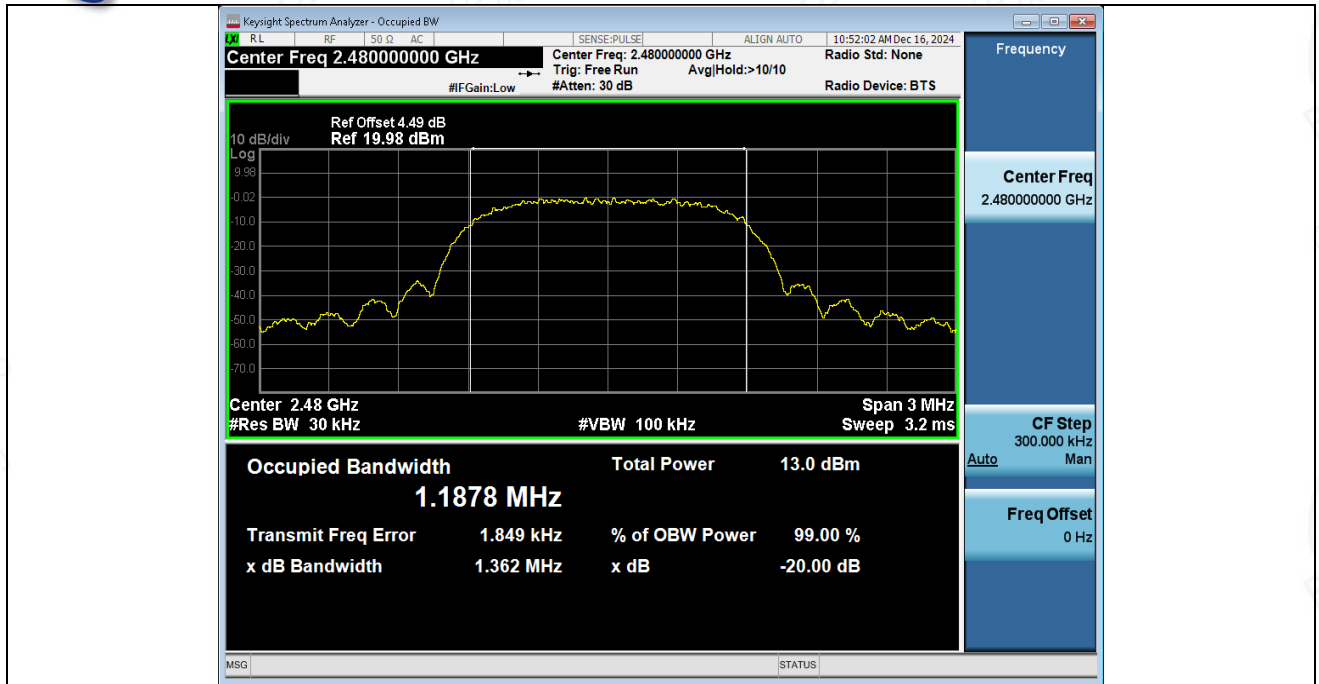
Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH5	2402.00	0.997	No
NVNT	ANT1	1-DH5	2441.00	0.991	No
NVNT	ANT1	1-DH5	2480.00	0.991	No
NVNT	ANT1	2-DH5	2402.00	1.349	Yes
NVNT	ANT1	2-DH5	2441.00	1.349	Yes
NVNT	ANT1	2-DH5	2480.00	1.350	Yes
NVNT	ANT1	3-DH5	2402.00	1.356	Yes
NVNT	ANT1	3-DH5	2441.00	1.350	Yes
NVNT	ANT1	3-DH5	2480.00	1.362	Yes











3. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	1-DH5	2402.00	0.891
NVNT	ANT1	1-DH5	2441.00	0.892
NVNT	ANT1	1-DH5	2480.00	0.911
NVNT	ANT1	2-DH5	2402.00	1.196
NVNT	ANT1	2-DH5	2441.00	1.197
NVNT	ANT1	2-DH5	2480.00	1.196
NVNT	ANT1	3-DH5	2402.00	1.191
NVNT	ANT1	3-DH5	2441.00	1.197
NVNT	ANT1	3-DH5	2480.00	1.190

99% Occupied Bandwidth NVNT ANT1 1-DH5 2402_00



99% Occupied Bandwidth NVNT ANT1 1-DH5 2441_00

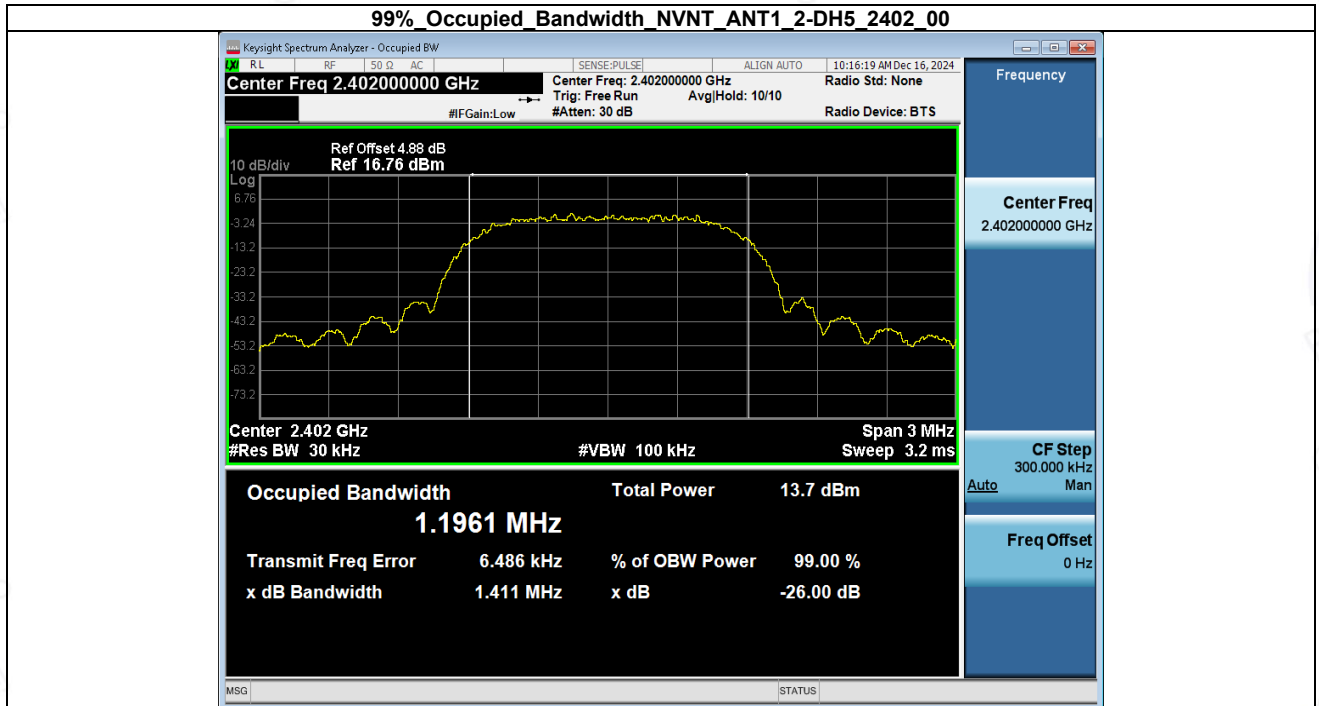


99% Occupied Bandwidth NVNT ANT1 1-DH5 2480_00



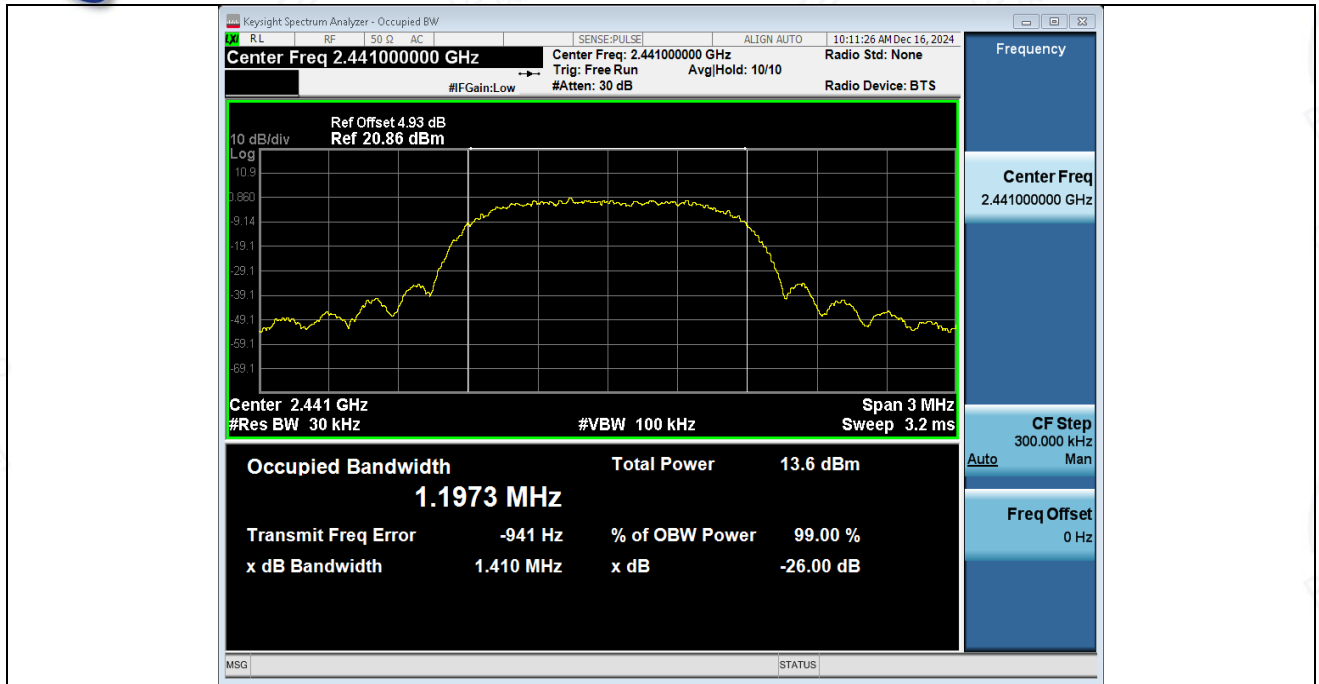


99% Occupied Bandwidth_NVNT_ANT1_2-DH5_2402_00

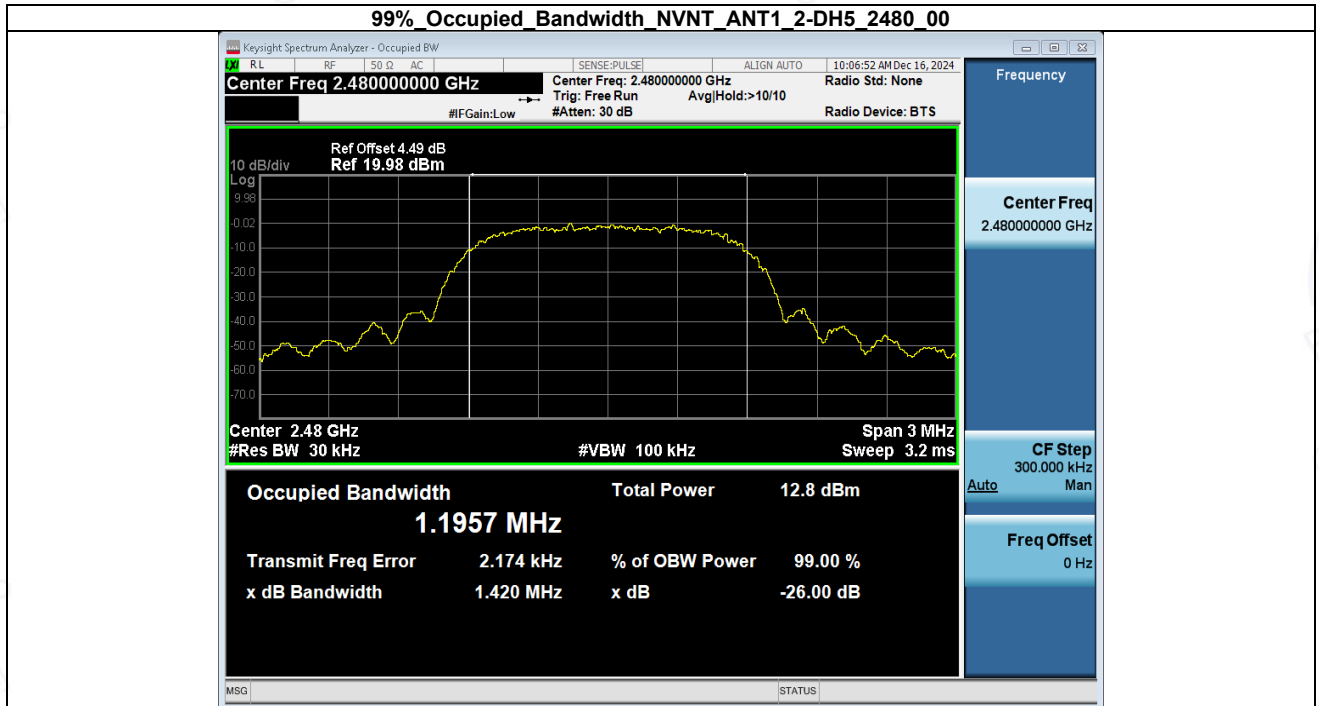


99% Occupied Bandwidth_NVNT_ANT1_2-DH5_2441_00



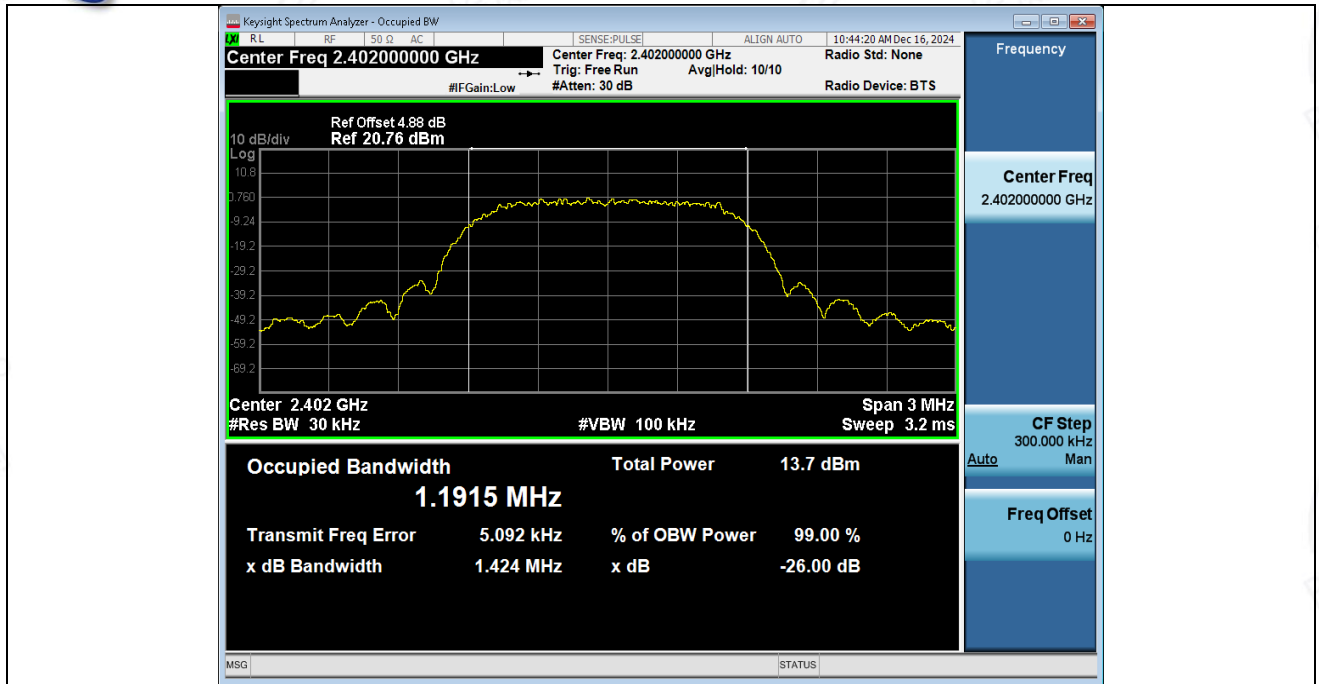


99% Occupied Bandwidth_NVNT_ANT1_2-DH5_2480_00

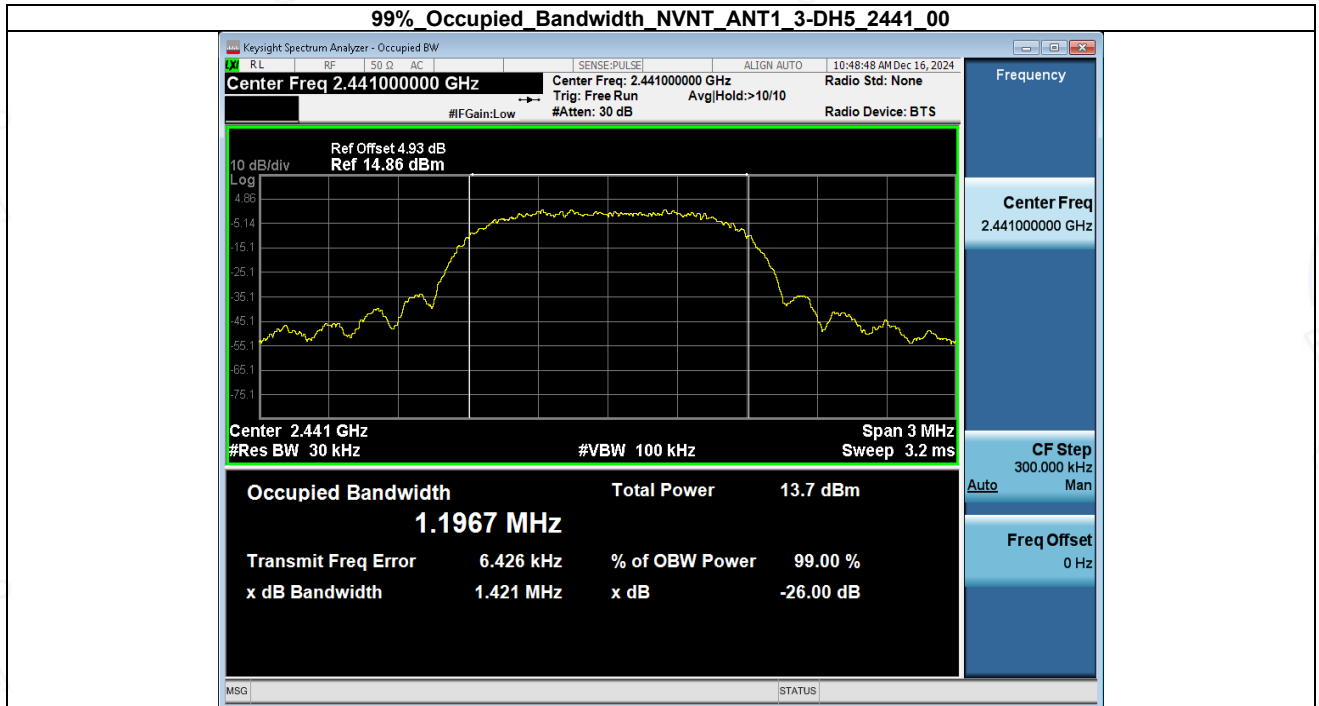


99% Occupied Bandwidth_NVNT_ANT1_3-DH5_2402_00



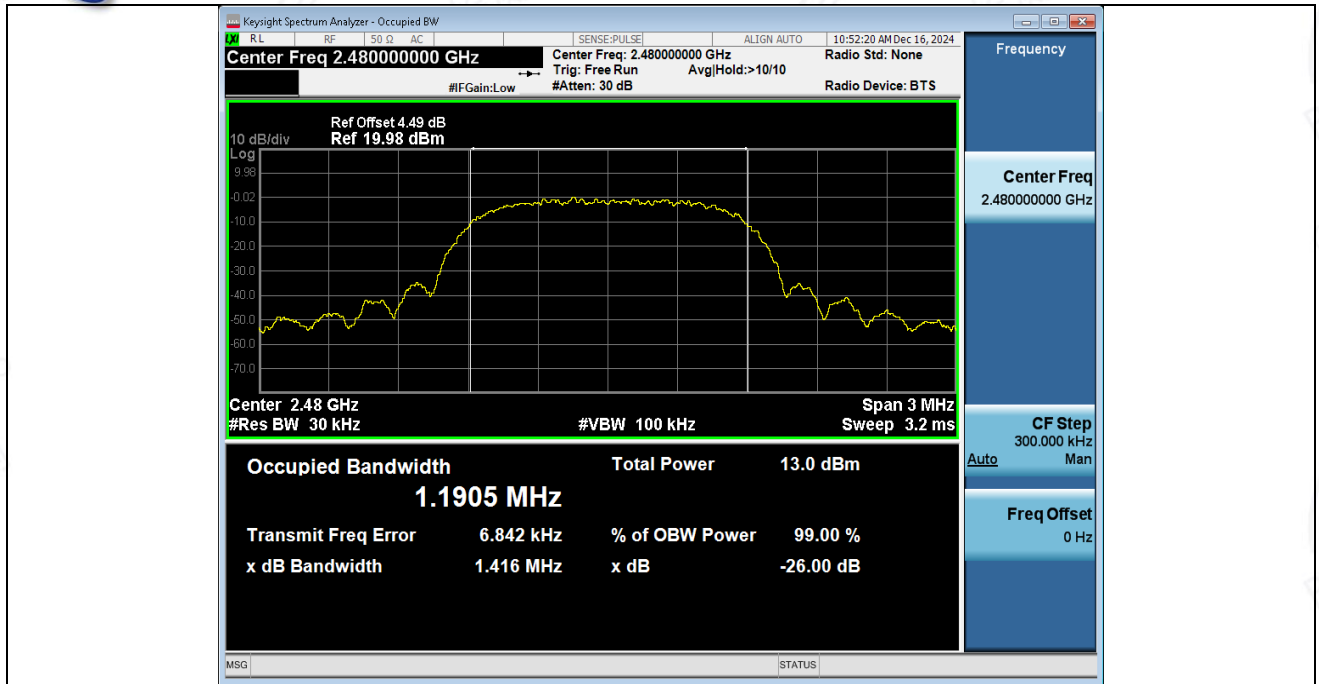


99% Occupied Bandwidth_NVNT_ANT1_3-DH5_2441_00



99% Occupied Bandwidth_NVNT_ANT1_3-DH5_2480_00

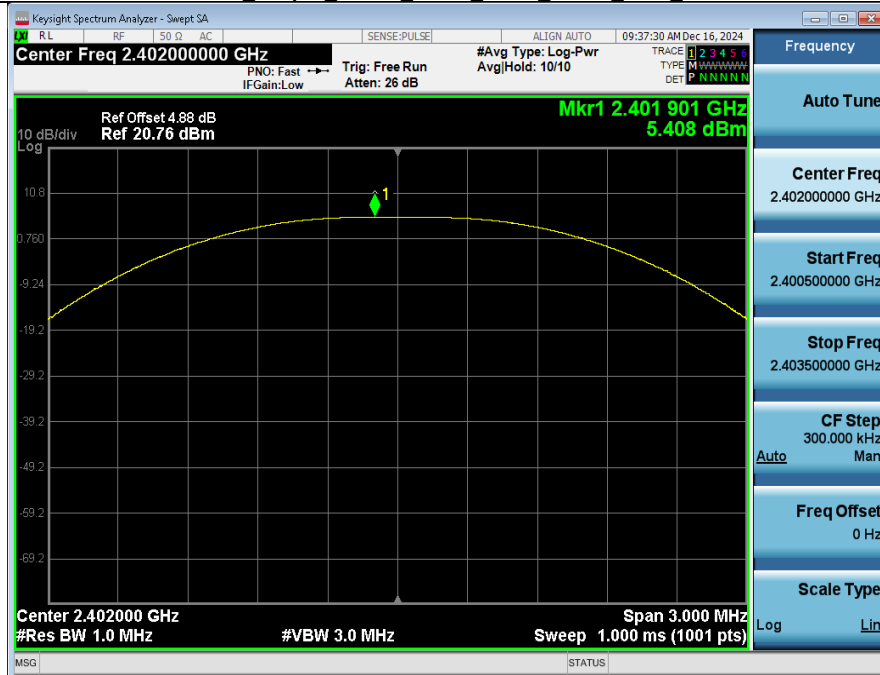




4. Peak Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1-DH5	2402.00	5.41	3.47	1000	Pass
NVNT	ANT1	1-DH5	2441.00	5.35	3.43	1000	Pass
NVNT	ANT1	1-DH5	2480.00	4.51	2.83	1000	Pass
NVNT	ANT1	2-DH5	2402.00	7.76	5.97	125	Pass
NVNT	ANT1	2-DH5	2441.00	7.63	5.79	125	Pass
NVNT	ANT1	2-DH5	2480.00	6.80	4.79	125	Pass
NVNT	ANT1	3-DH5	2402.00	8.30	6.77	125	Pass
NVNT	ANT1	3-DH5	2441.00	8.24	6.68	125	Pass
NVNT	ANT1	3-DH5	2480.00	7.47	5.58	125	Pass

Peak_Output_Power_NVNT_ANT1_1-DH5_2402_00

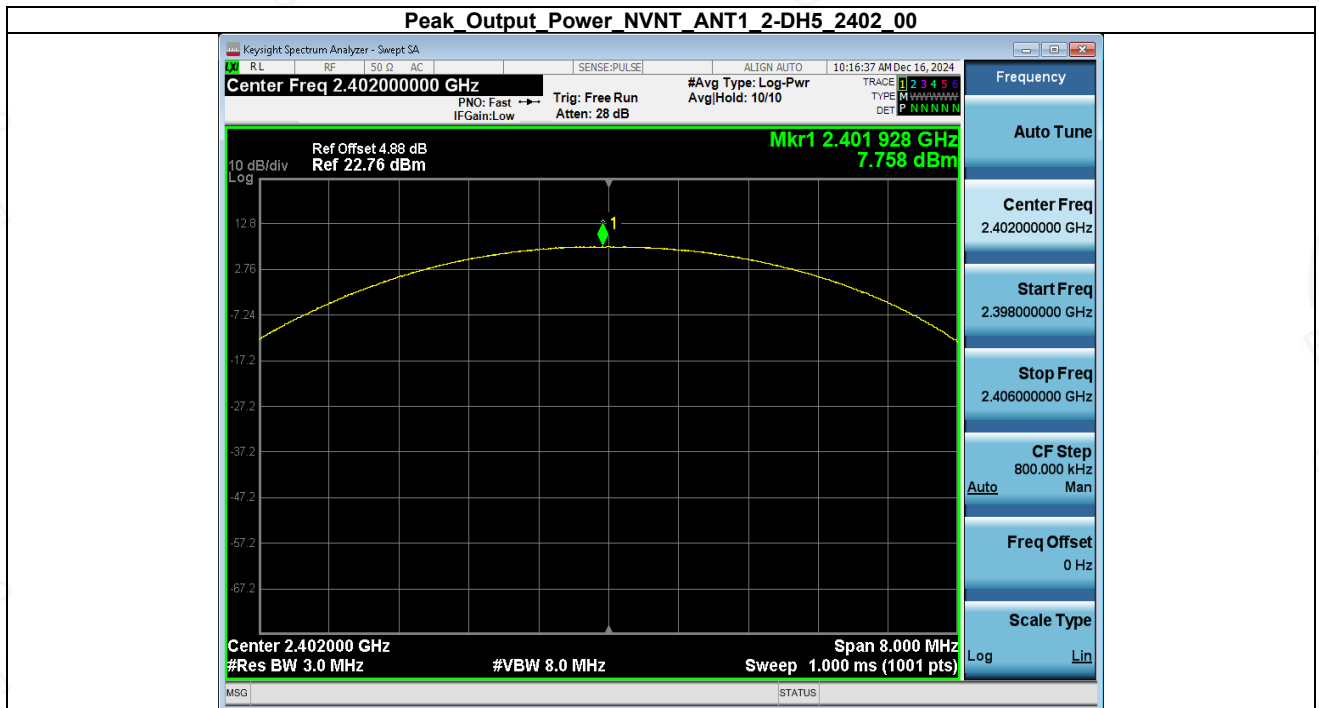
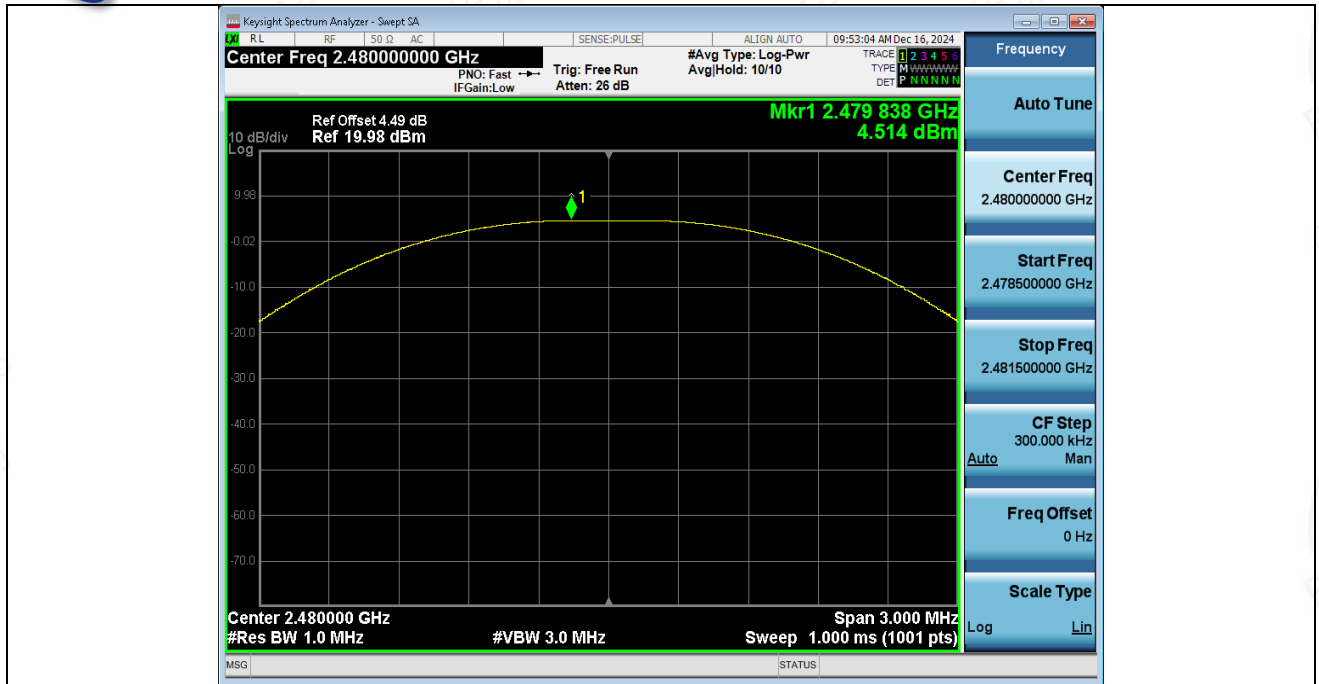


Peak_Output_Power_NVNT_ANT1_1-DH5_2441_00



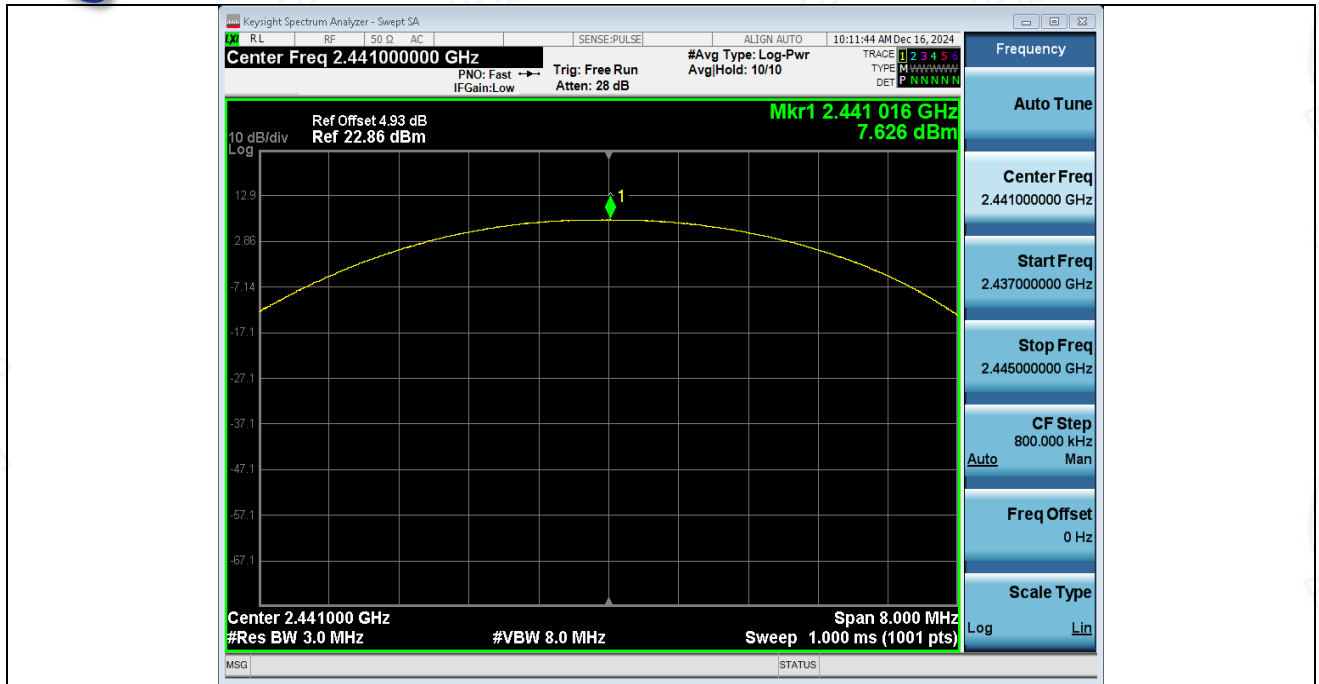
Peak_Output_Power_NVNT_ANT1_1-DH5_2480_00



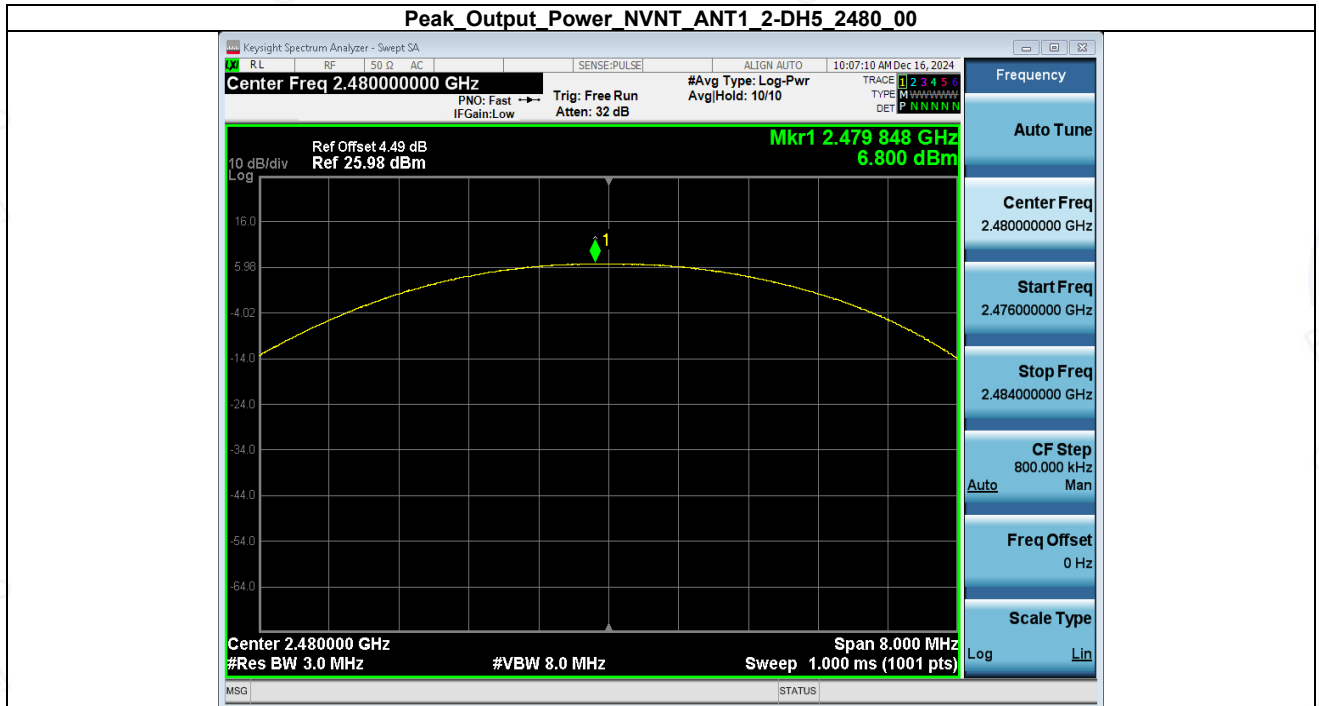


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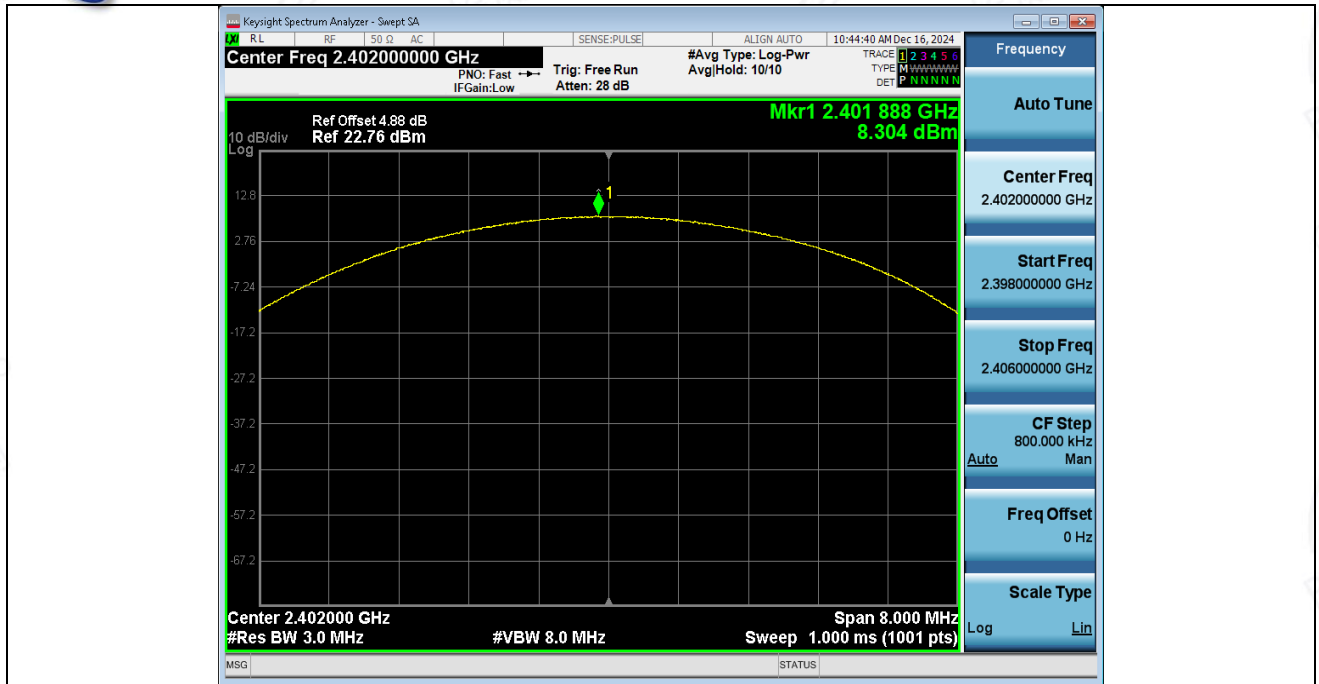


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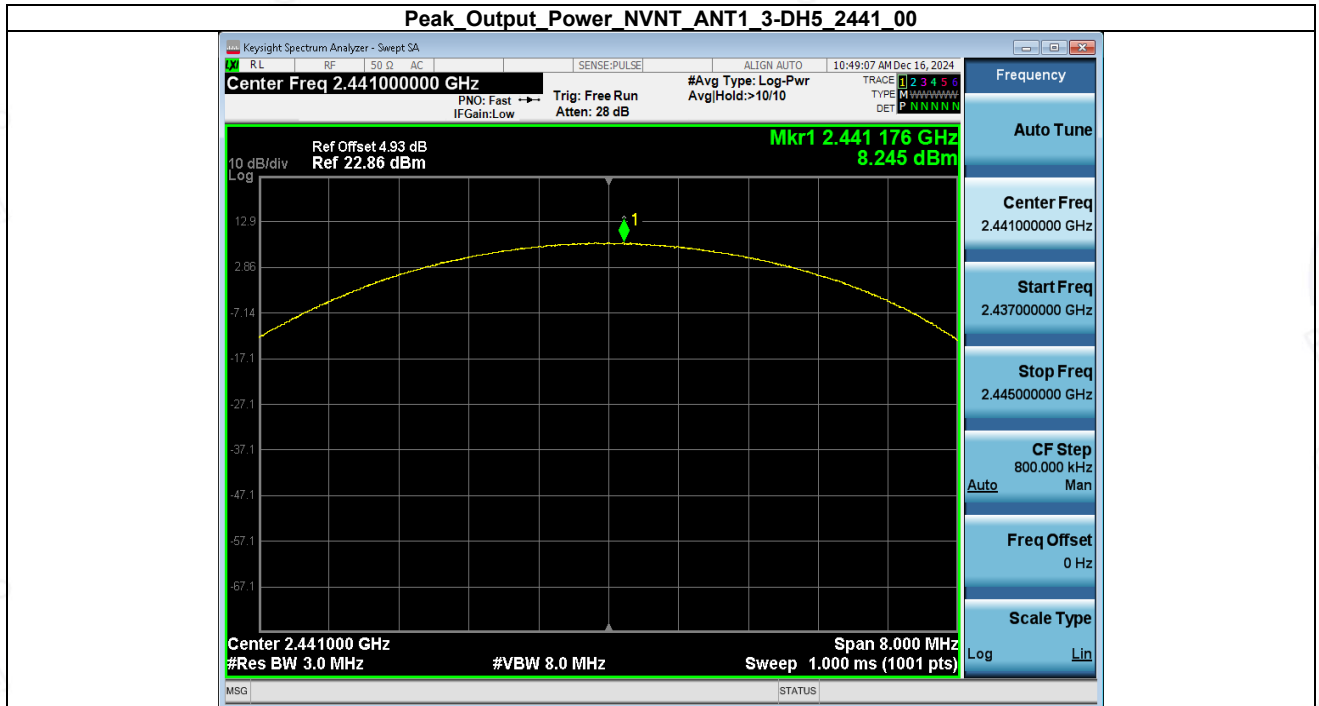


Peak_Output_Power_NVNT_ANT1_3-DH5_2402_00



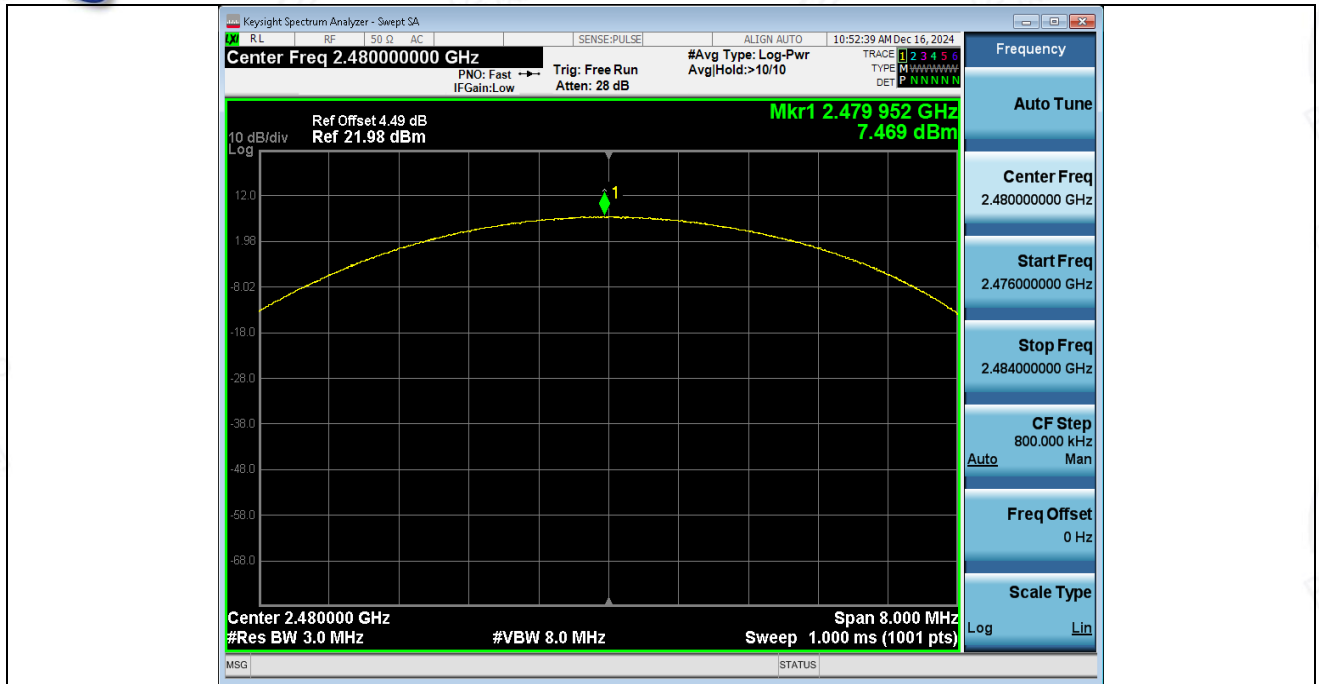


Peak_Output_Power_NVNT_ANT1_3-DH5_2441_00



Peak_Output_Power_NVNT_ANT1_3-DH5_2480_00





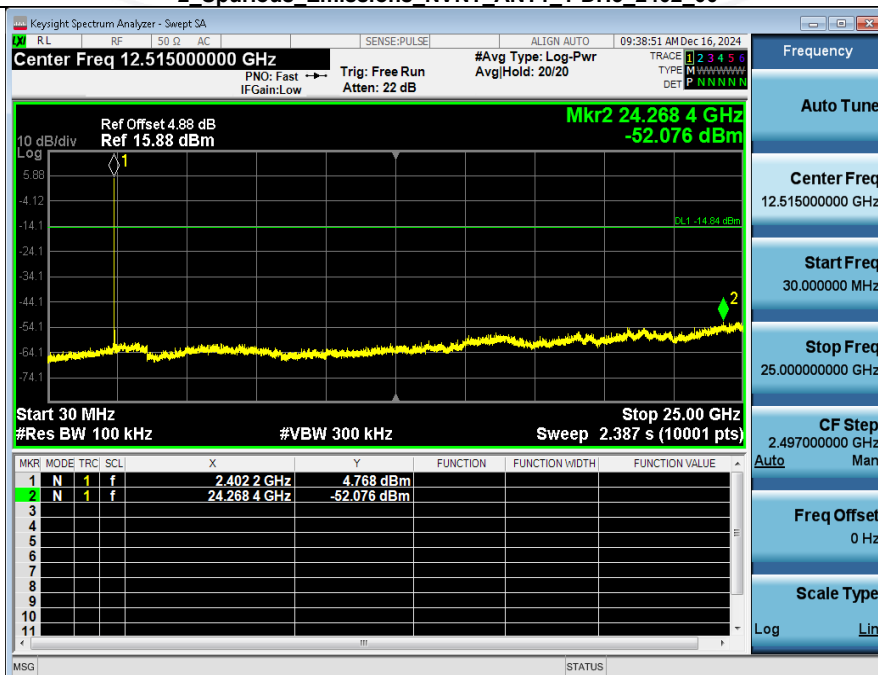
5. Spurious Emissions

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH5	2402.00	5.164	-52.076	-14.836	Pass
NVNT	ANT1	1-DH5	2441.00	4.952	-48.527	-15.048	Pass
NVNT	ANT1	1-DH5	2480.00	4.262	-48.850	-15.738	Pass
NVNT	ANT1	2-DH5	2402.00	3.634	-53.772	-16.366	Pass
NVNT	ANT1	2-DH5	2441.00	3.745	-45.402	-16.255	Pass
NVNT	ANT1	2-DH5	2480.00	3.114	-49.839	-16.886	Pass
NVNT	ANT1	3-DH5	2402.00	3.659	-46.673	-16.341	Pass
NVNT	ANT1	3-DH5	2441.00	4.135	-47.942	-15.865	Pass
NVNT	ANT1	3-DH5	2480.00	2.792	-54.388	-17.208	Pass

1 Reference Level NVNT ANT1 1-DH5 2402 00



2 Spurious Emissions NVNT ANT1 1-DH5 2402 00

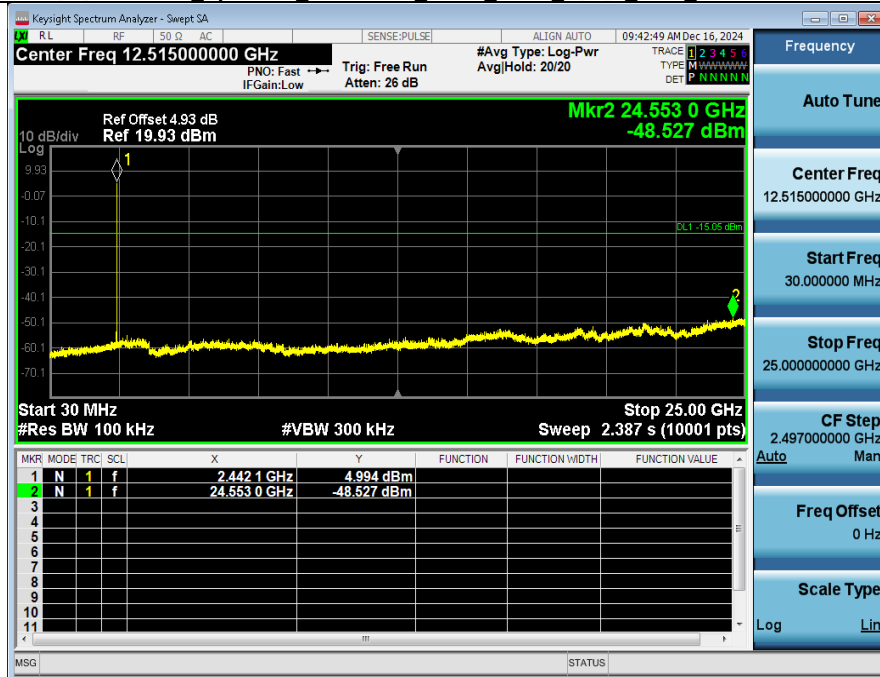


1 Reference Level NVNT ANT1 1-DH5 2441 00





2_Spurious_Emissions_NVNT_ANT1_1-DH5_2441_00

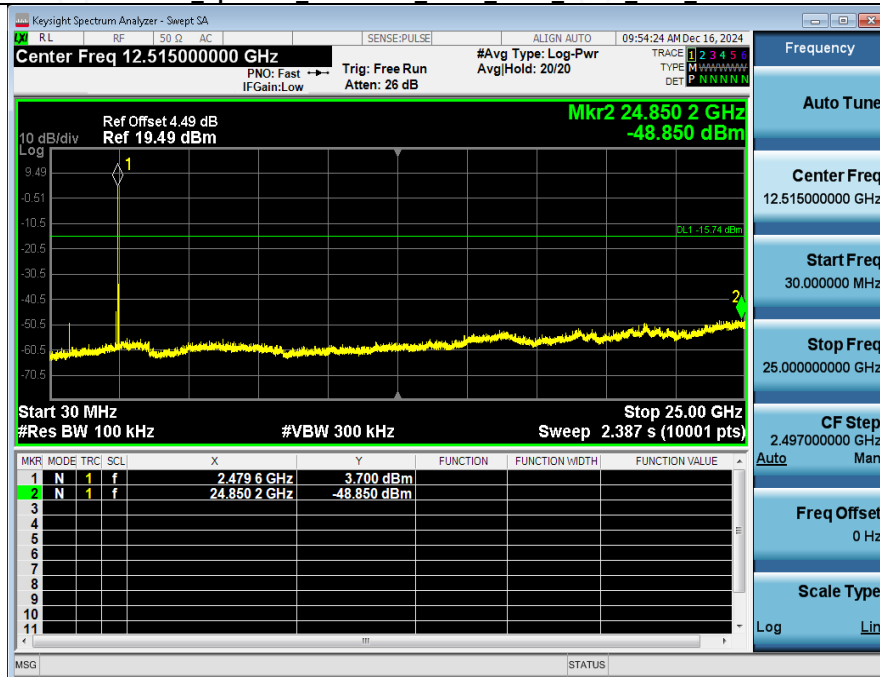


1_Reference_Level_NVNT_ANT1_1-DH5_2480_00





2_Spurious_Emissions_NVNT_ANT1_1-DH5_2480_00

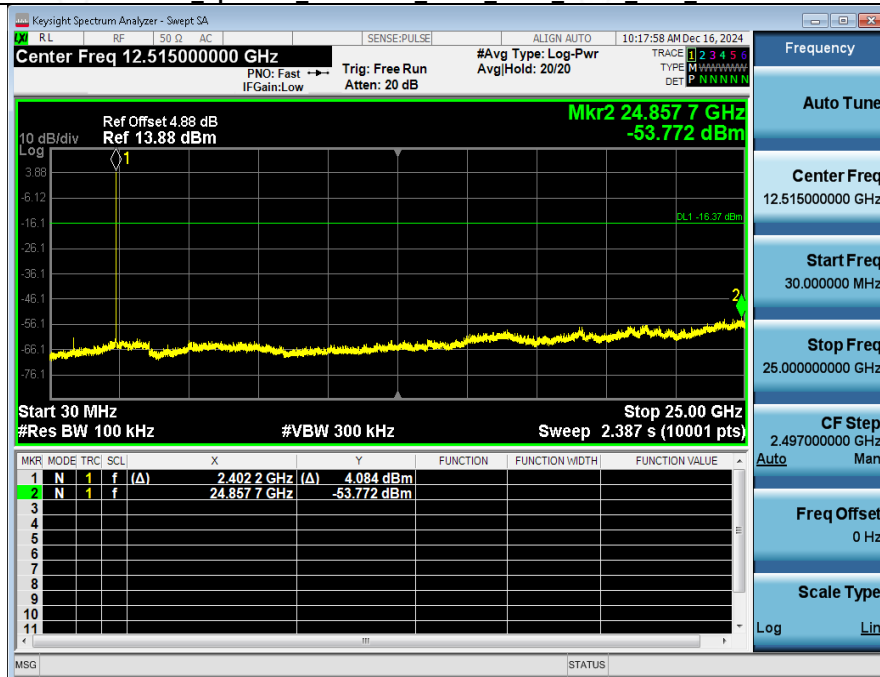


1_Reference_Level_NVNT_ANT1_2-DH5_2402_00



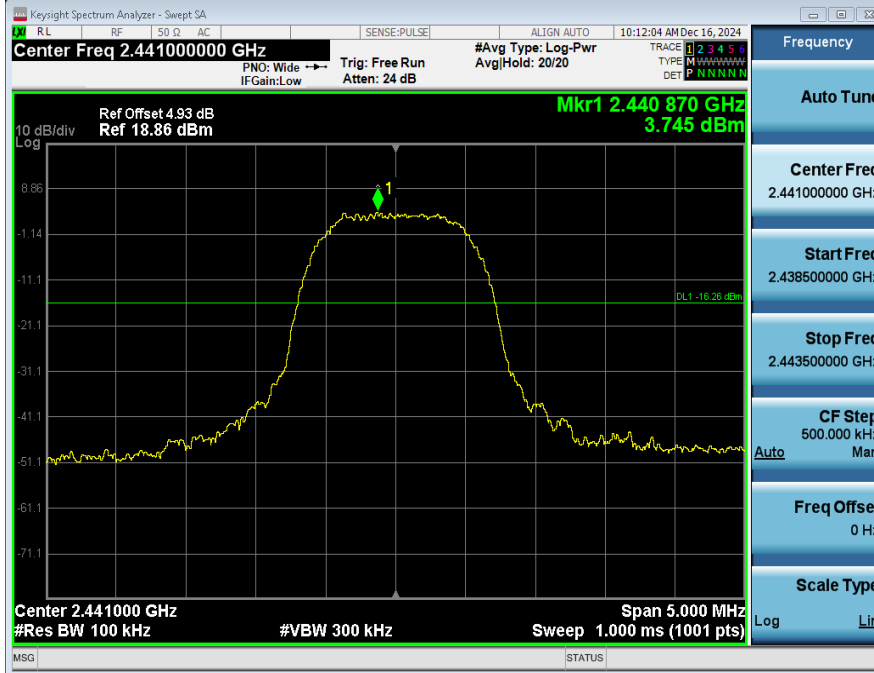


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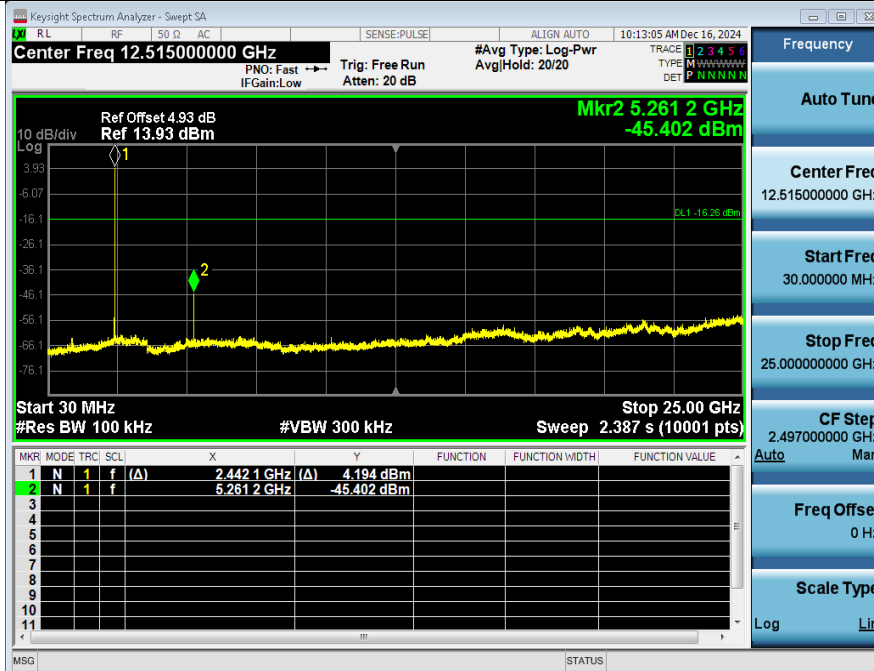


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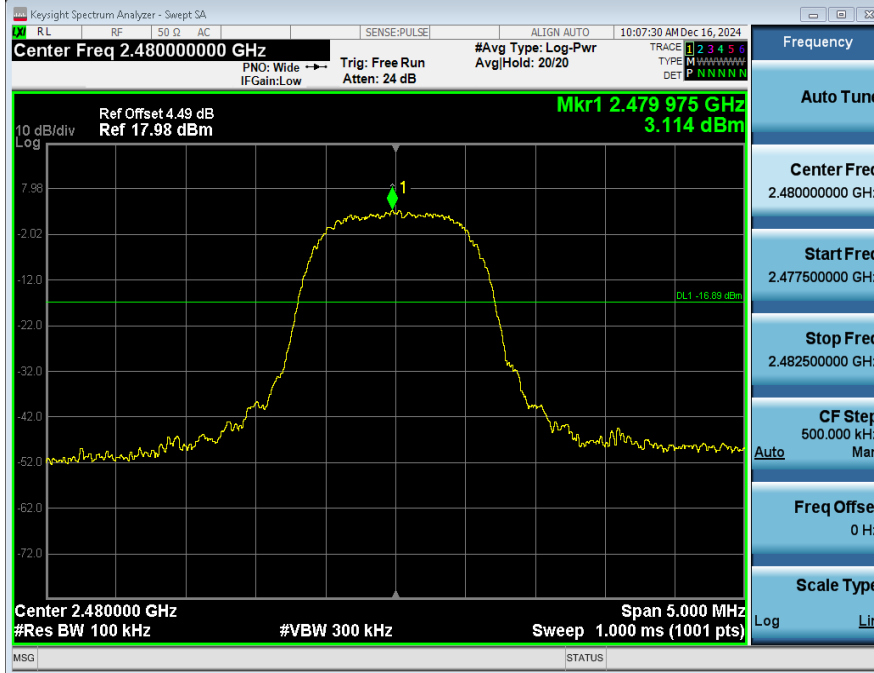


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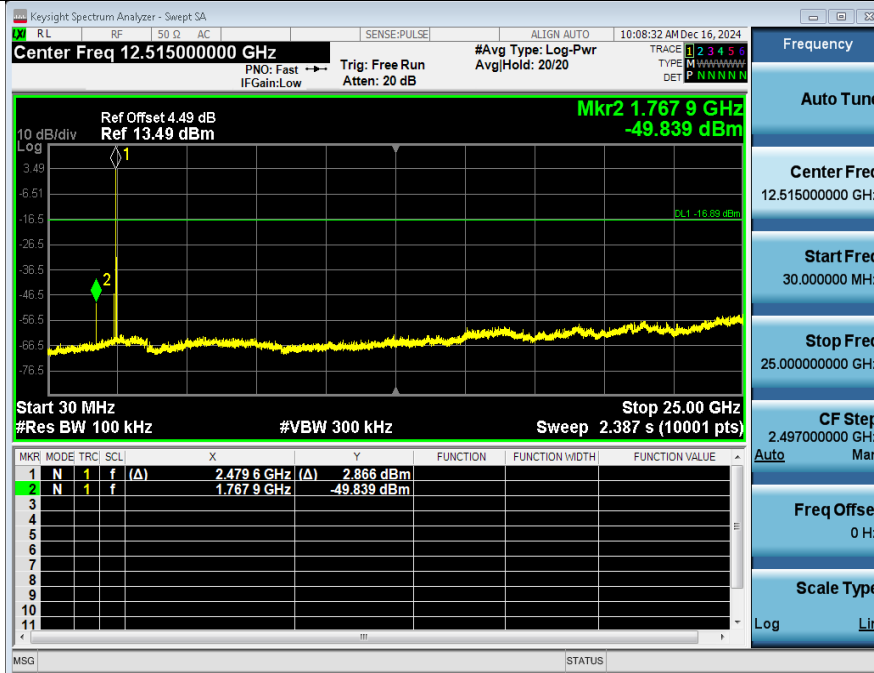


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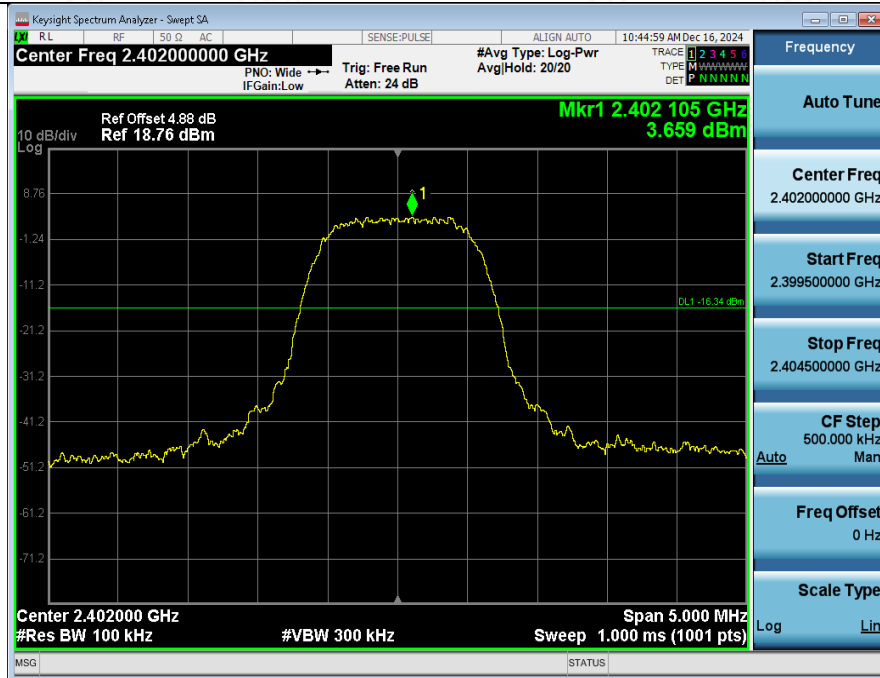


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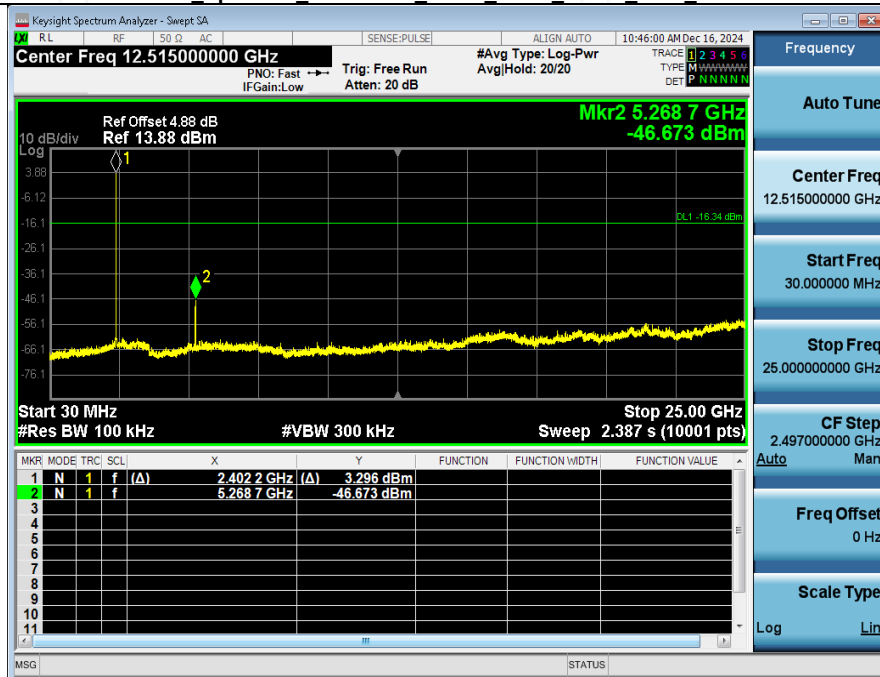


1_Reference_Level_NVNT_ANT1_3-DH5_2402_00





2_Spurious_Emissions_NVNT_ANT1_3-DH5_2402_00

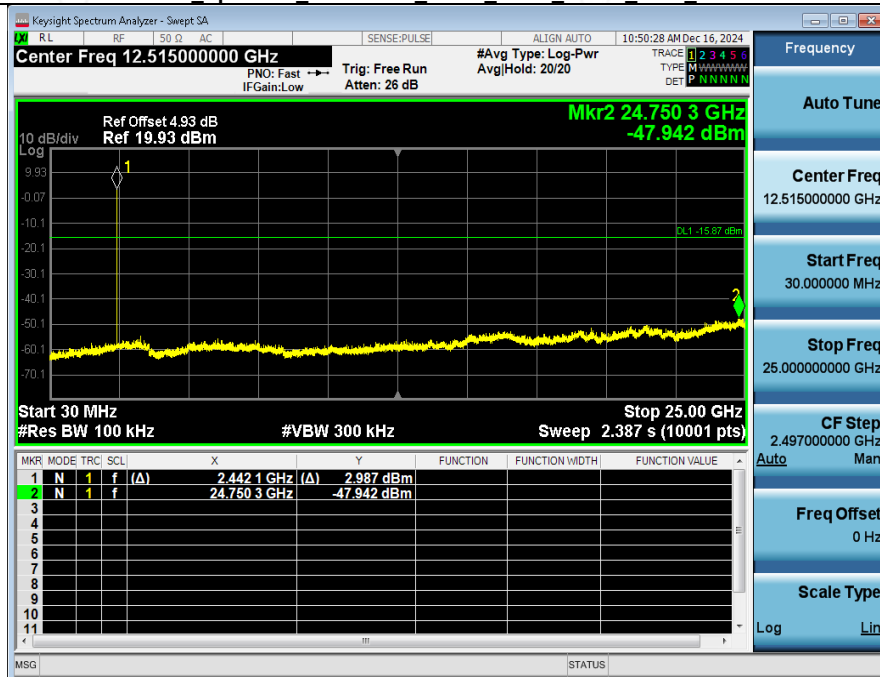


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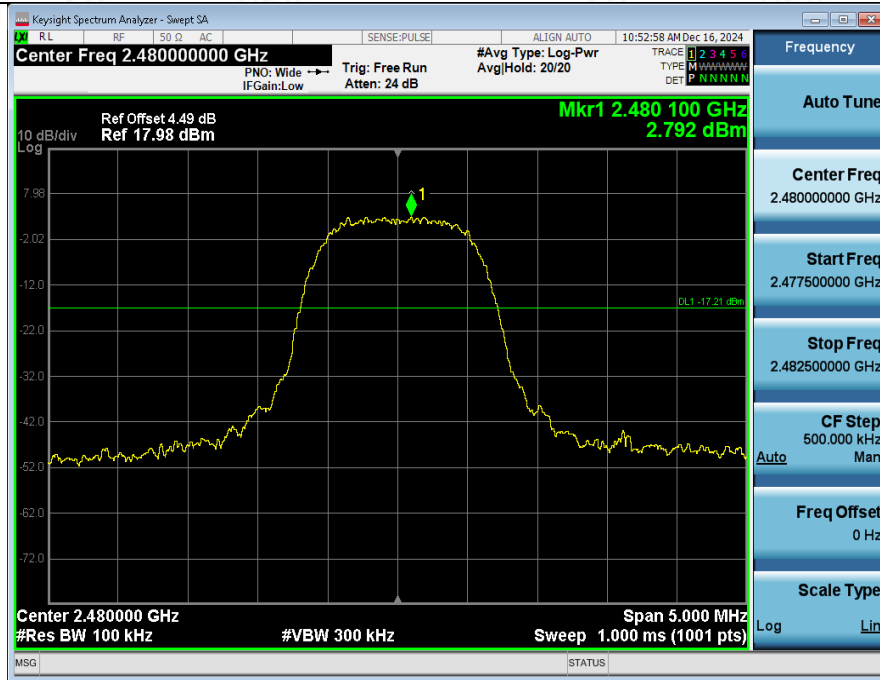


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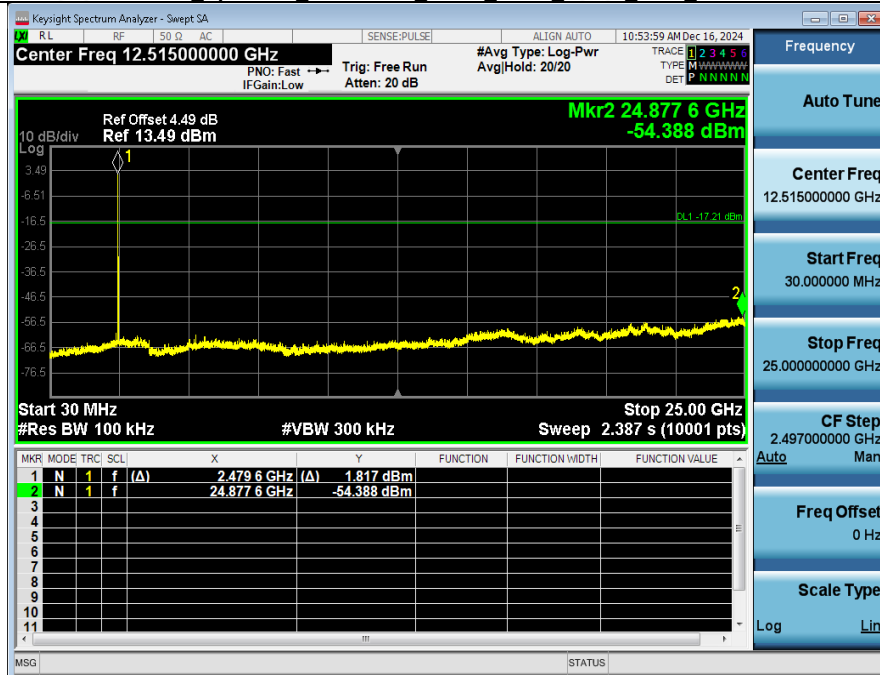


1_Reference_Level_NVNT_ANT1_3-DH5_2480_00





2 Spurious Emissions NVNT ANT1 3-DH5 2480 00



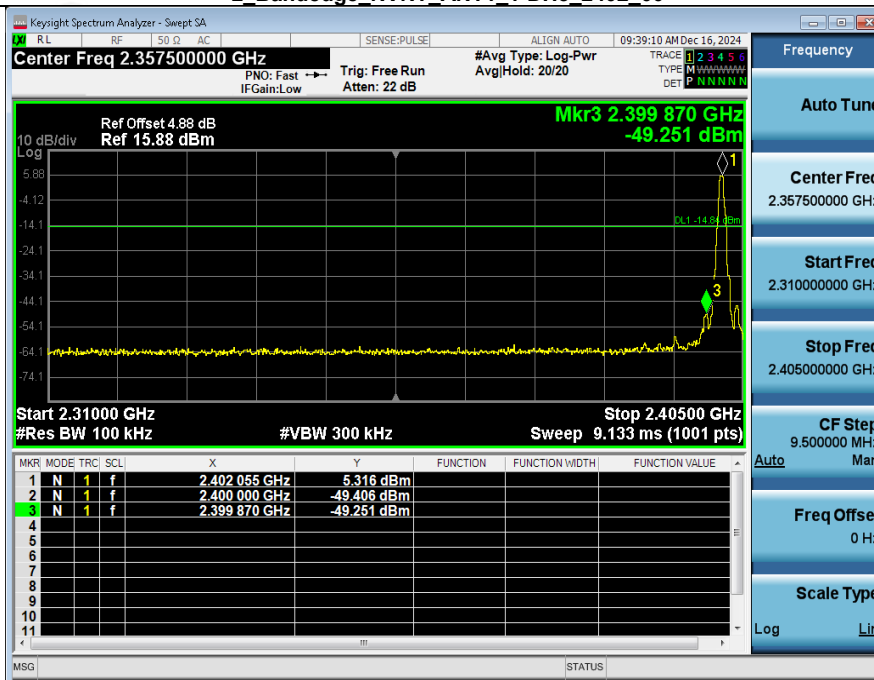
6. Bandedge

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Bandedge MAX.Value	Limit	Result
NVNT	ANT1	1-DH5	2402.00	5.164	-49.251	-14.836	Pass
NVNT	ANT1	1-DH5	Hopping_LCH	6.718	-48.509	-13.282	Pass
NVNT	ANT1	1-DH5	2480.00	4.262	-55.219	-15.738	Pass
NVNT	ANT1	1-DH5	Hopping_HCH	6.457	-54.279	-13.543	Pass
NVNT	ANT1	2-DH5	2402.00	3.634	-47.625	-16.366	Pass
NVNT	ANT1	2-DH5	Hopping_LCH	8.162	-46.669	-11.838	Pass
NVNT	ANT1	2-DH5	2480.00	3.114	-58.186	-16.886	Pass
NVNT	ANT1	2-DH5	Hopping_HCH	7.800	-57.943	-12.200	Pass
NVNT	ANT1	3-DH5	2402.00	3.659	-48.068	-16.341	Pass
NVNT	ANT1	3-DH5	Hopping_LCH	8.048	-48.345	-11.952	Pass
NVNT	ANT1	3-DH5	2480.00	2.792	-57.747	-17.208	Pass
NVNT	ANT1	3-DH5	Hopping_HCH	7.728	-56.822	-12.272	Pass

1 Reference Level NVNT ANT1 1-DH5 2402_00

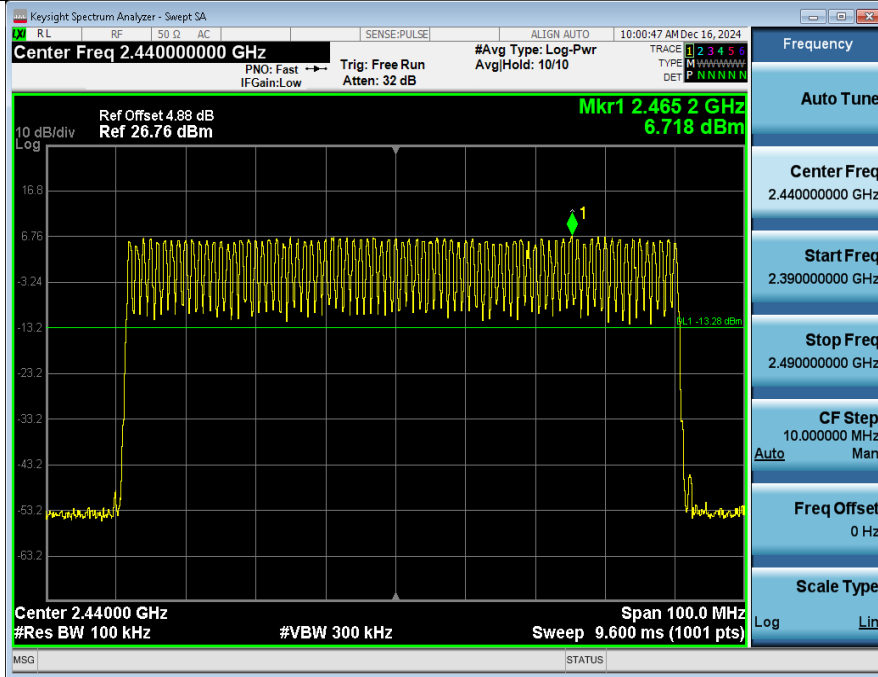


2 Bandedge NVNT ANT1 1-DH5 2402_00

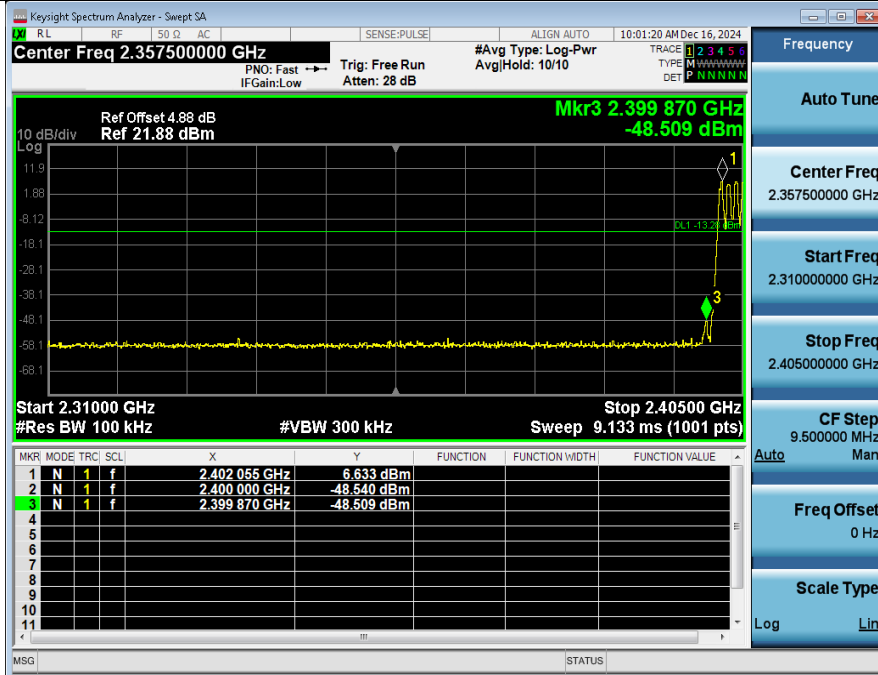


1 Reference Level Hopping NVNT ANT1 1-DH5 Hopping





2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH5_Hopping

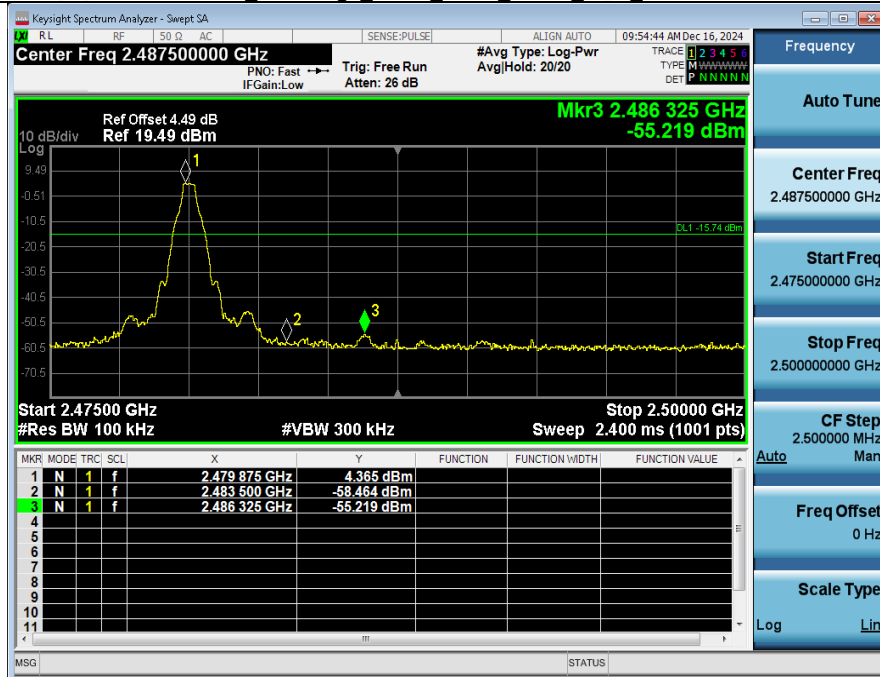


1_Reference_Level_NVNT_ANT1_1-DH5_2480_00



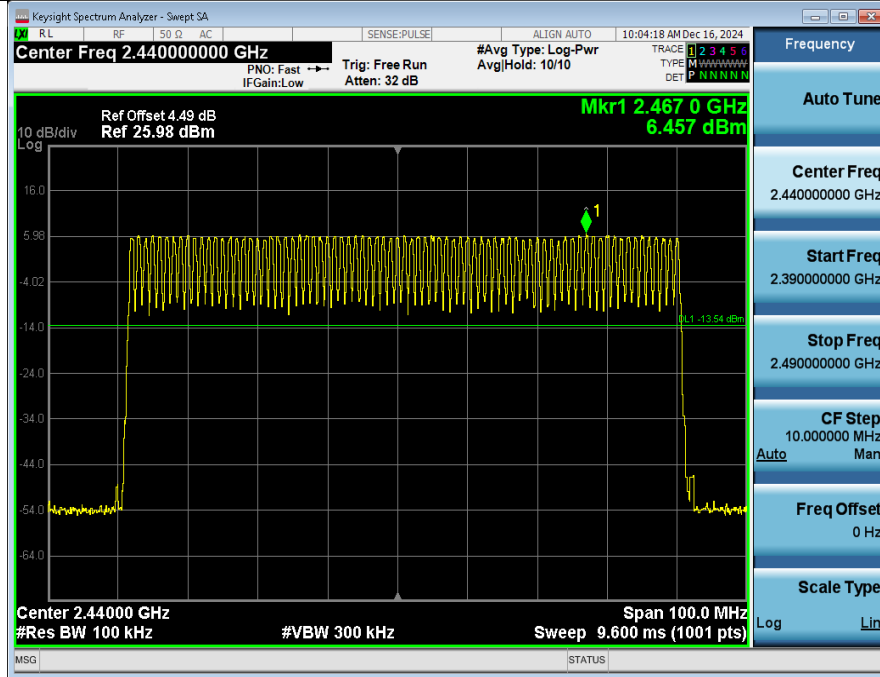


2_Bandedge_NVNT_ANT1_1-DH5_2480_00

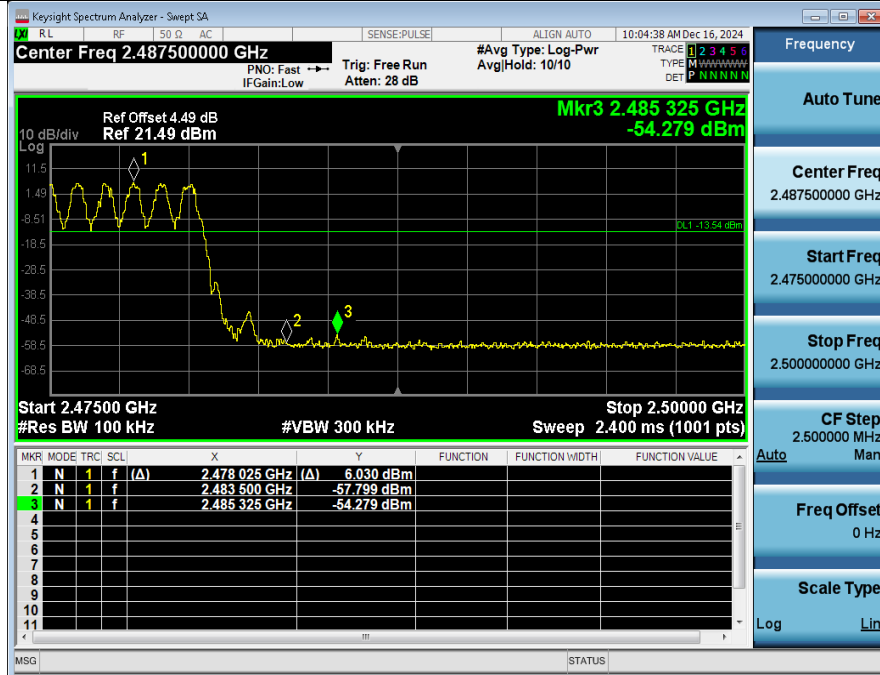


1_Reference_Level_Hopping_NVNT_ANT1_1-DH5_Hopping





2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH5_Hopping

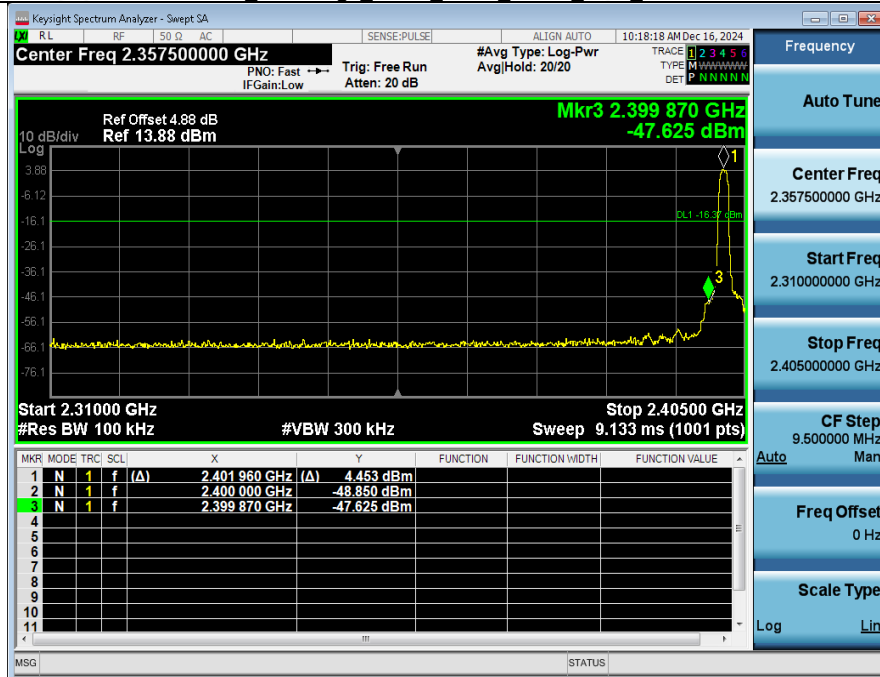


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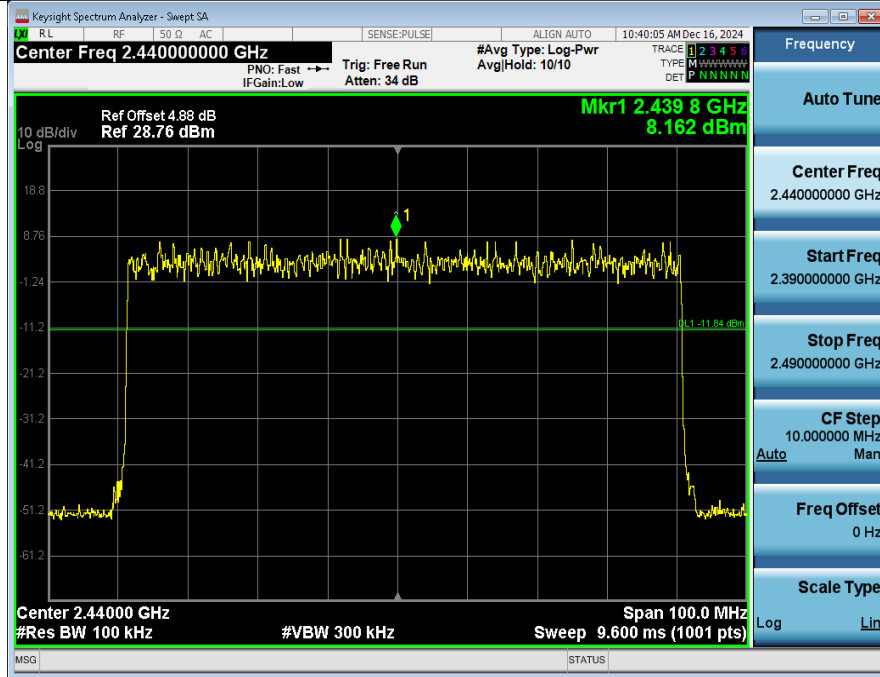


2_Bandedge_NVNT_ANT1_2-DH5_2402_00

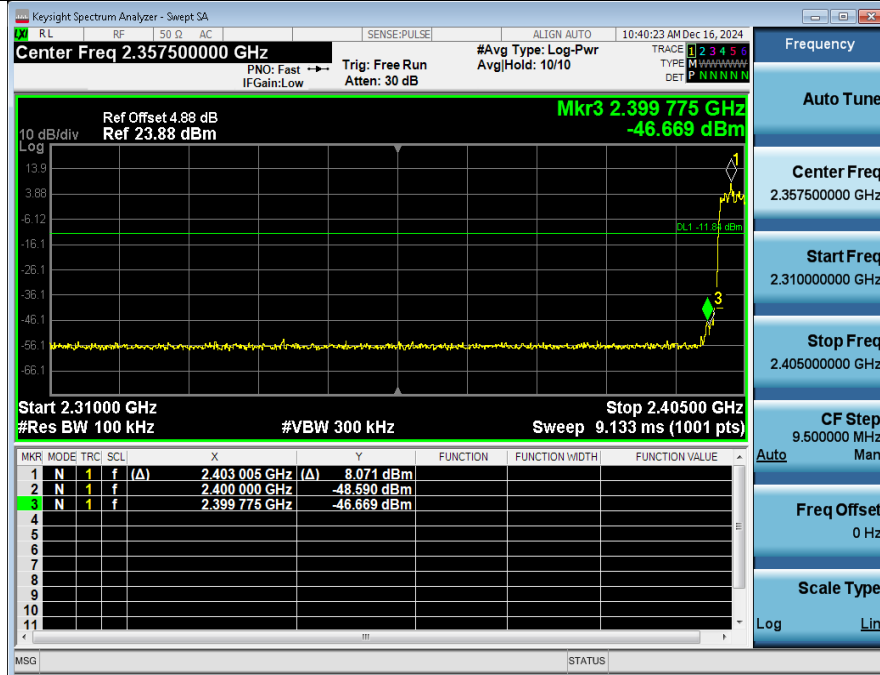


1_Reference_Level_Hopping_NVNT_ANT1_2-DH5_Hopping



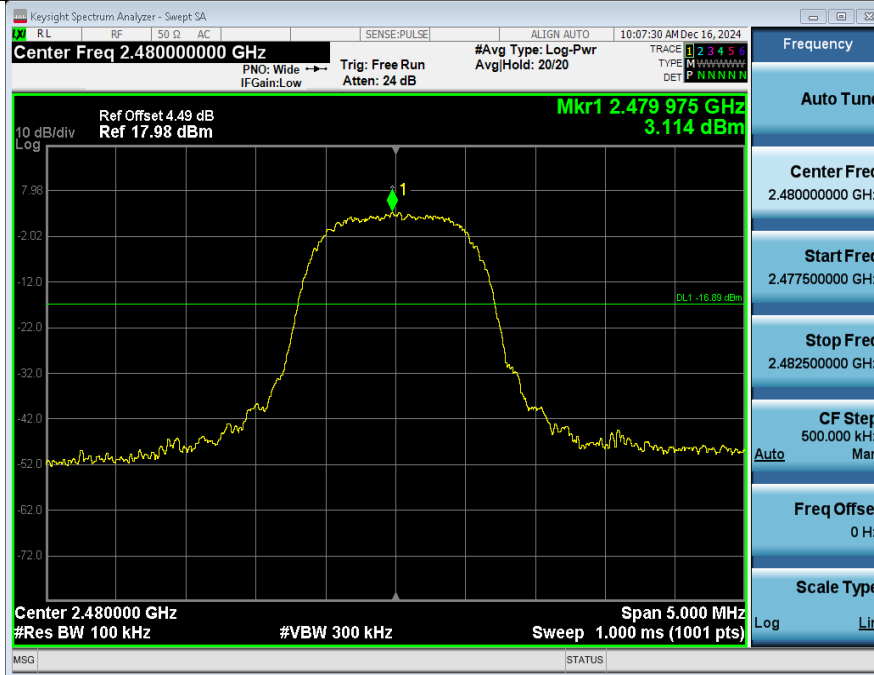


2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH5_Hopping

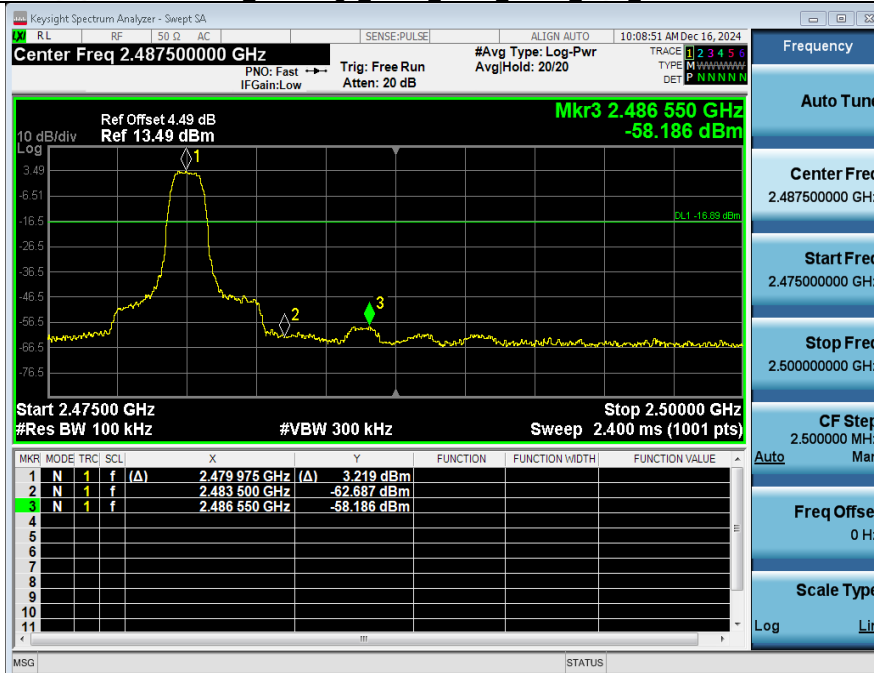


1_Reference_Level_NVNT_ANT1_2-DH5_2480_00



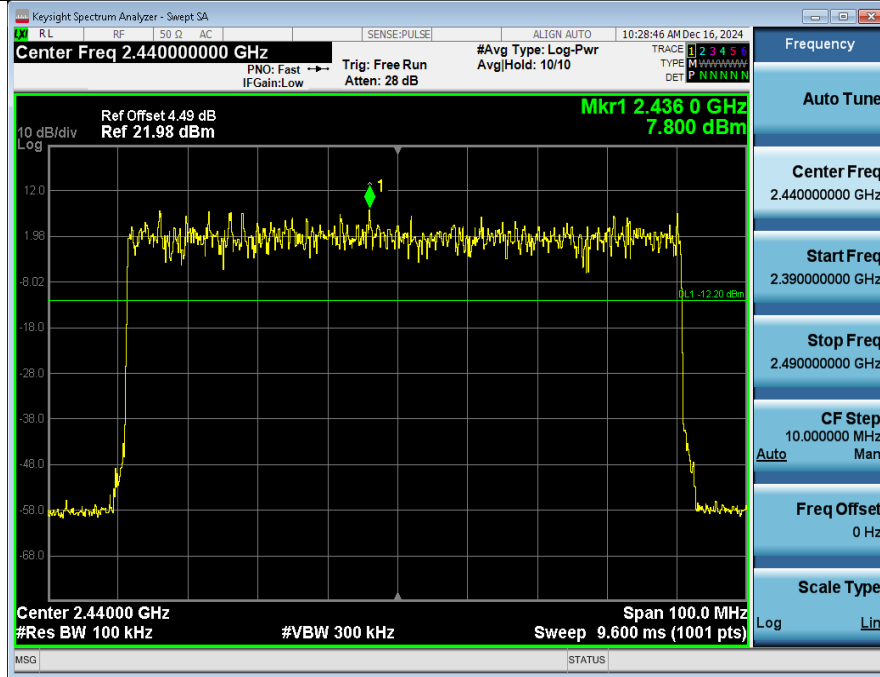


2_Bandedge_NVNT_ANT1_2-DH5_2480_00

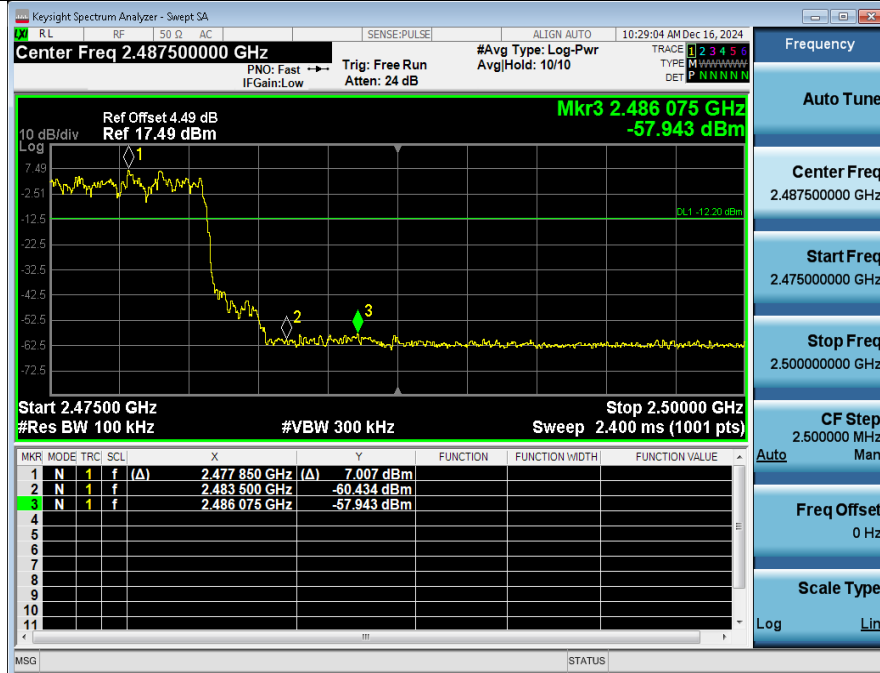


1_Reference_Level_Hopping_NVNT_ANT1_2-DH5_Hopping



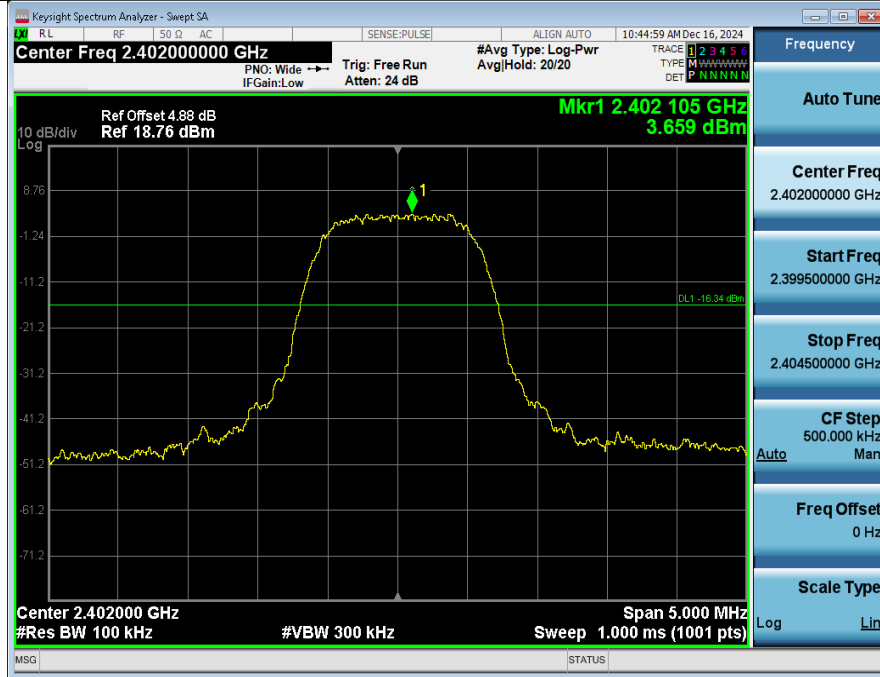


2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH5_Hopping

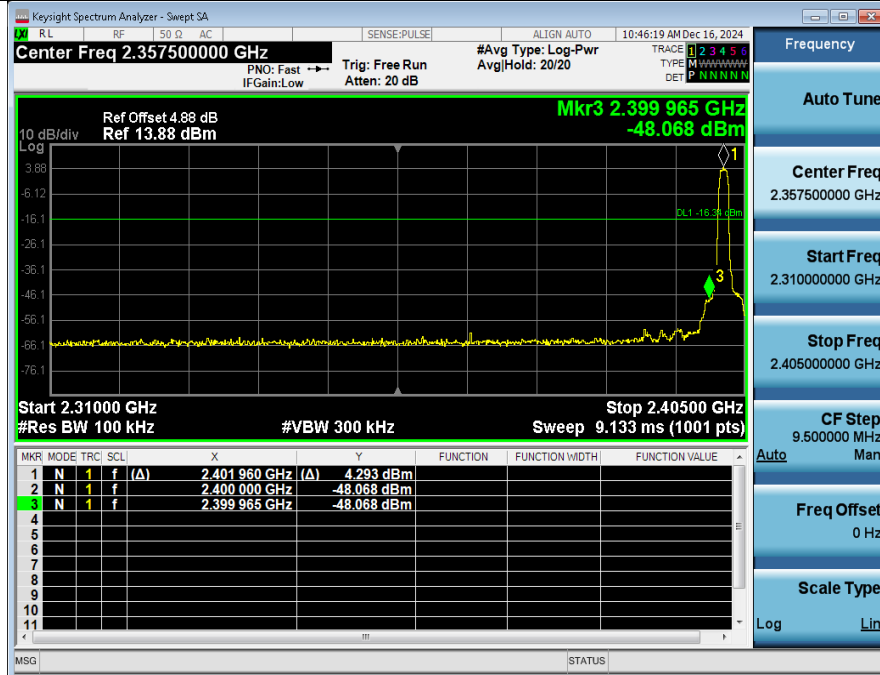


1_Reference_Level_NVNT_ANT1_3-DH5_2402_00



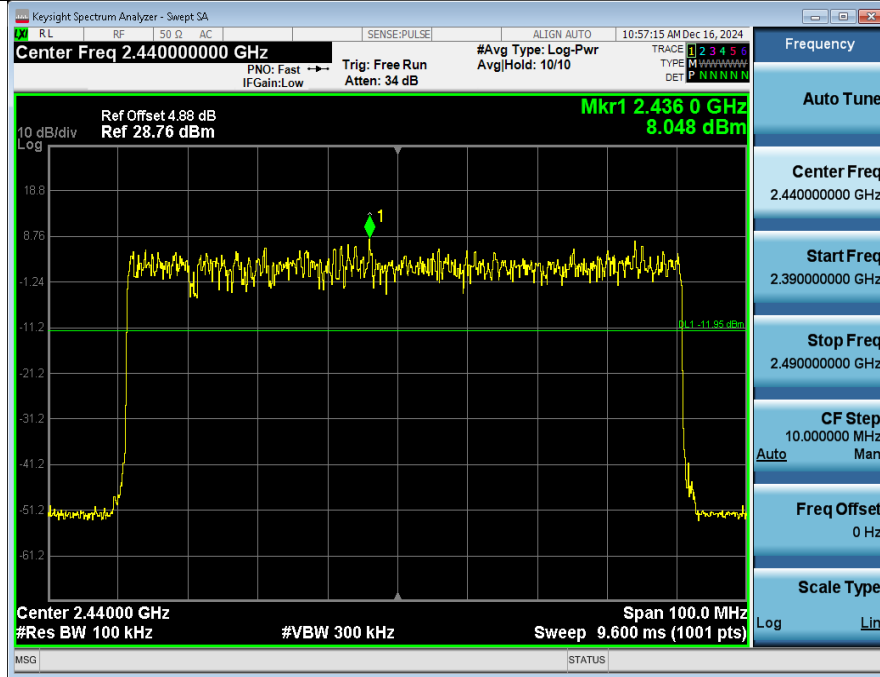


2_Bandedge_NVNT_ANT1_3-DH5_2402_00

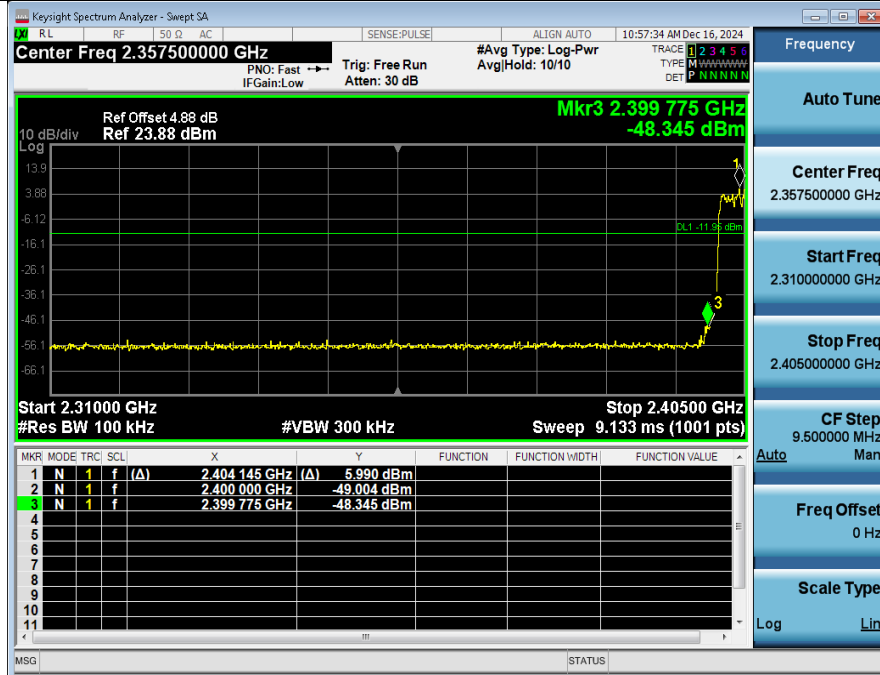


1_Reference_Level_Hopping_NVNT_ANT1_3-DH5_Hopping



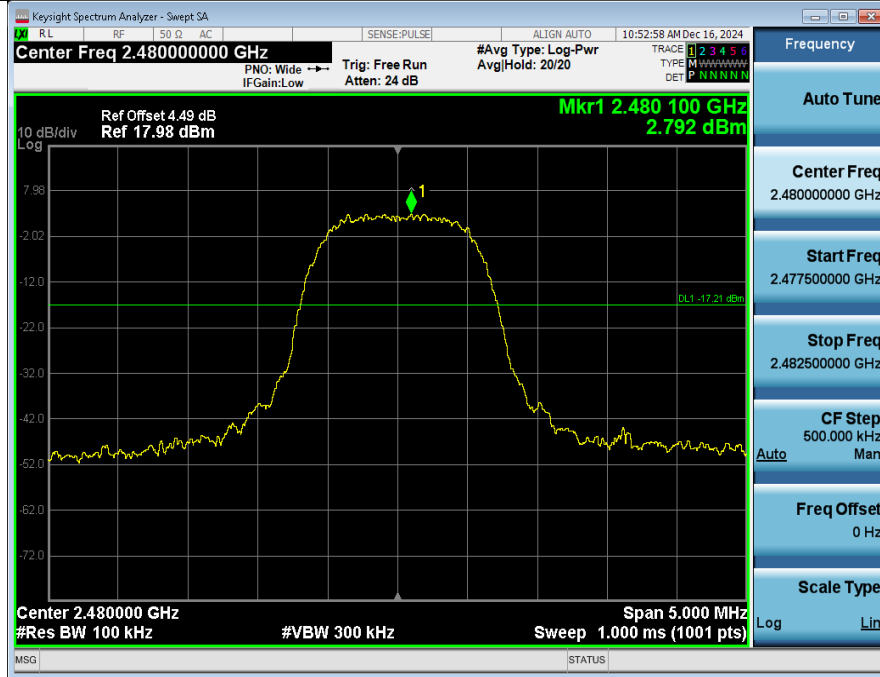


2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH5_Hopping

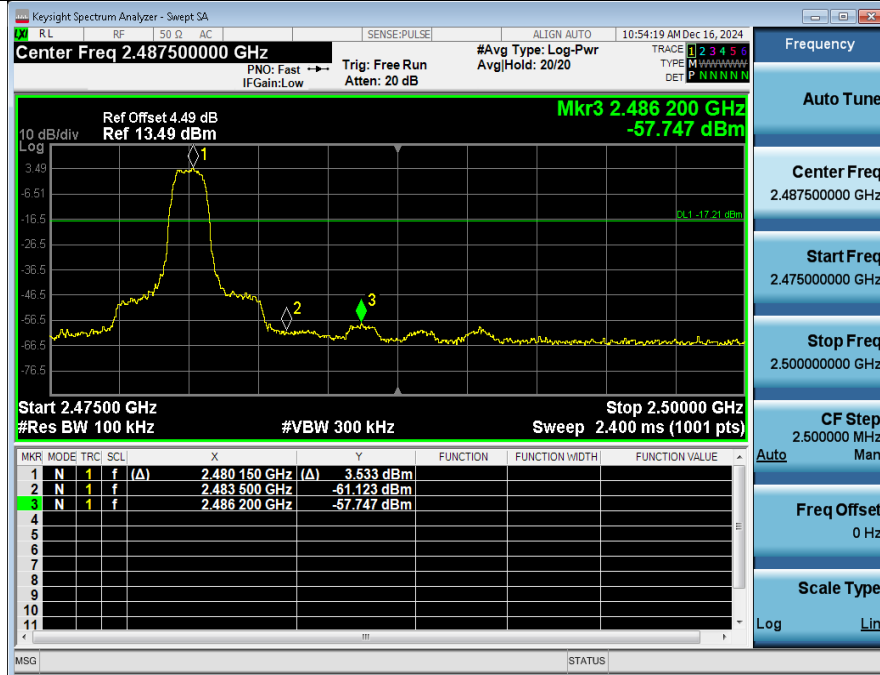


1_Reference_Level_NVNT_ANT1_3-DH5_2480_00



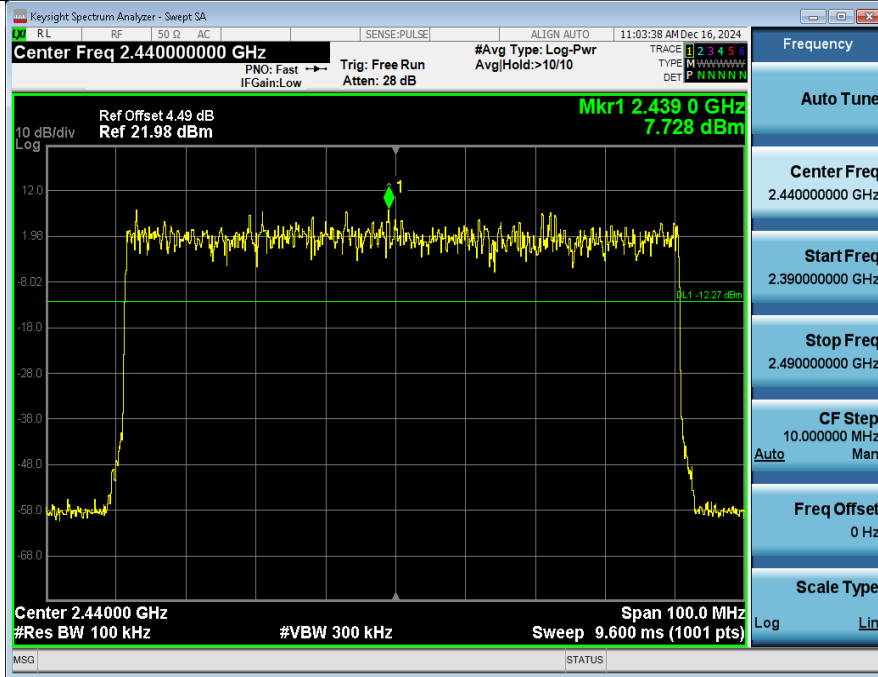


2_Bandedge_NVNT_ANT1_3-DH5_2480_00

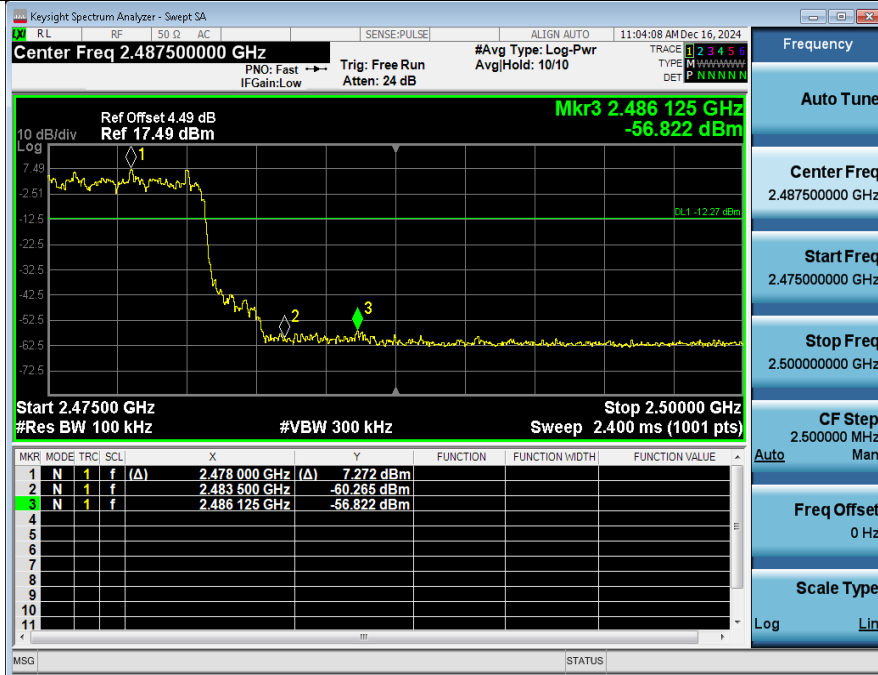


1_Reference_Level_Hopping_NVNT_ANT1_3-DH5_Hopping





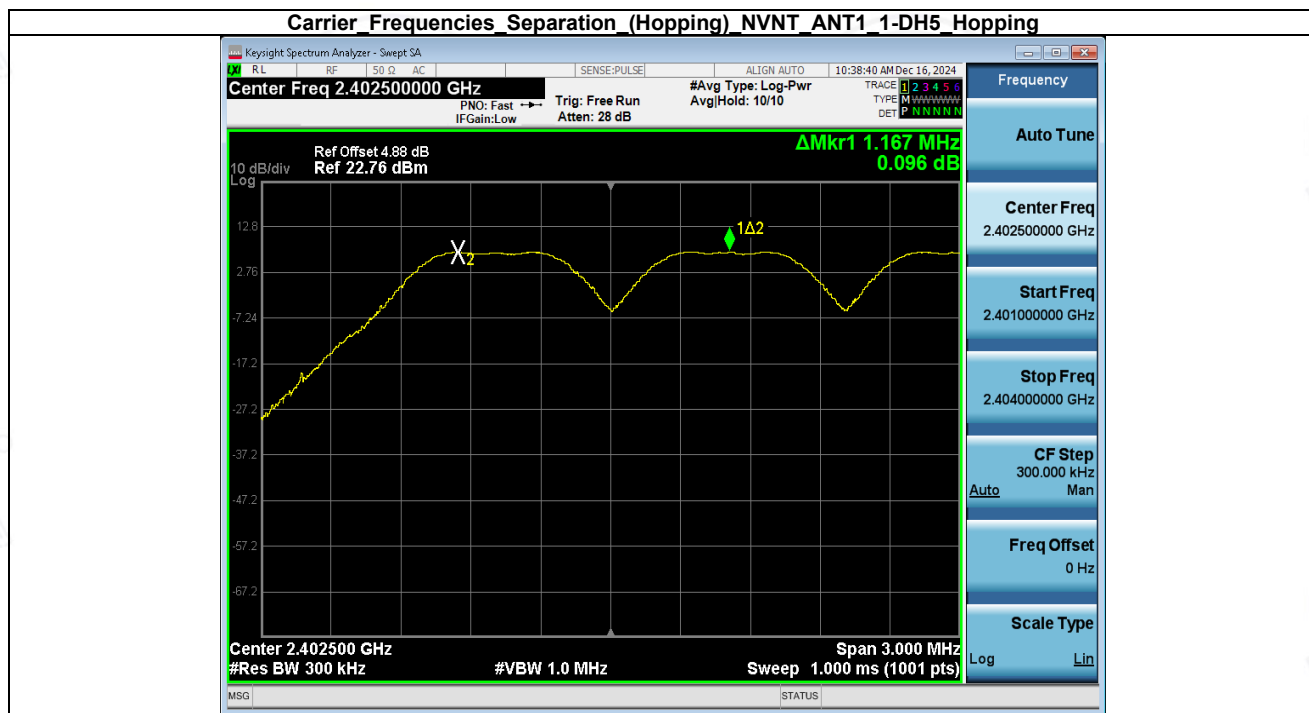
2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH5_Hopping



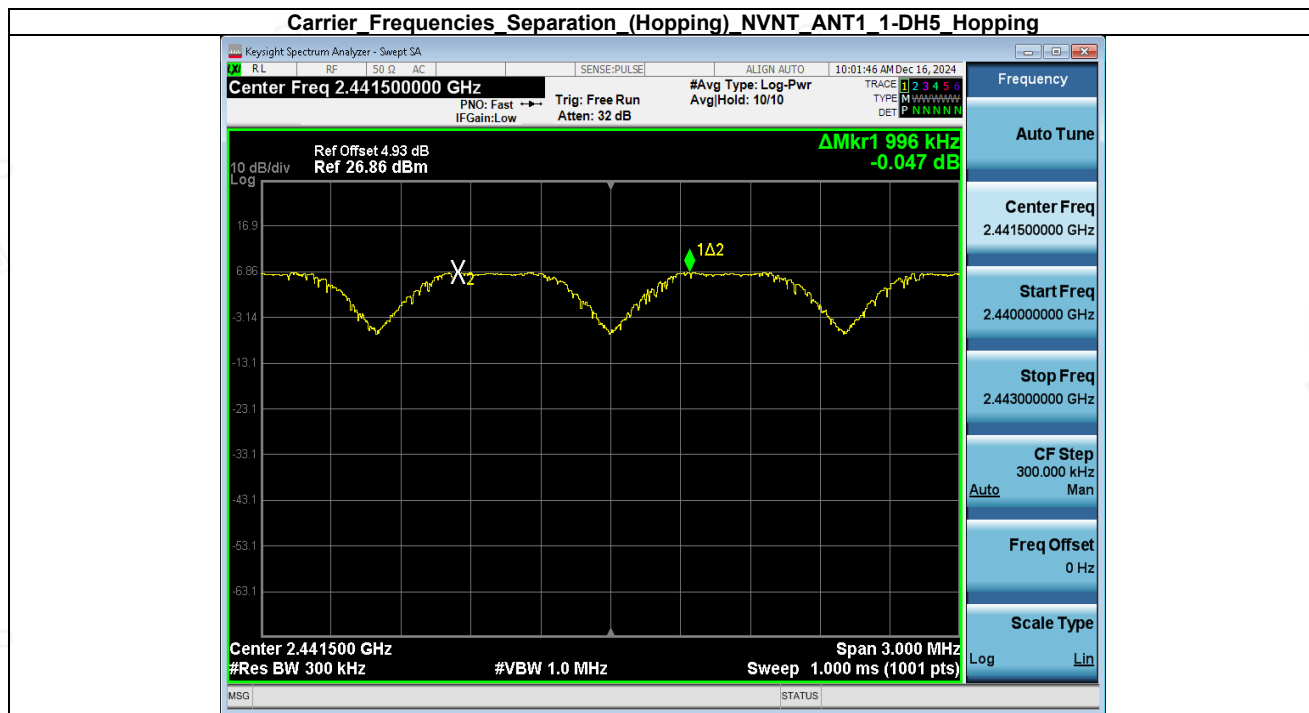
7. Carrier Frequencies Separation (Hopping)

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	2403.010	1.17	0.997	Pass
NVNT	ANT1	1-DH5	2441.00	2440.843	2441.839	1.00	0.991	Pass
NVNT	ANT1	1-DH5	2480.00	2478.846	2479.842	1.00	0.991	Pass
NVNT	ANT1	2-DH5	2402.00	2401.975	2402.884	0.91	0.899	Pass
NVNT	ANT1	2-DH5	2441.00	2440.840	2441.848	1.01	0.899	Pass
NVNT	ANT1	2-DH5	2480.00	2478.828	2479.986	1.16	0.900	Pass
NVNT	ANT1	3-DH5	2402.00	2402.002	2402.980	0.98	0.904	Pass
NVNT	ANT1	3-DH5	2441.00	2440.813	2441.845	1.03	0.900	Pass
NVNT	ANT1	3-DH5	2480.00	2478.831	2479.833	1.00	0.908	Pass

Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH5_Hopping

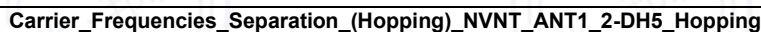
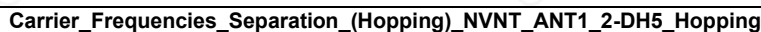


Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH5_Hopping



Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH5_Hopping





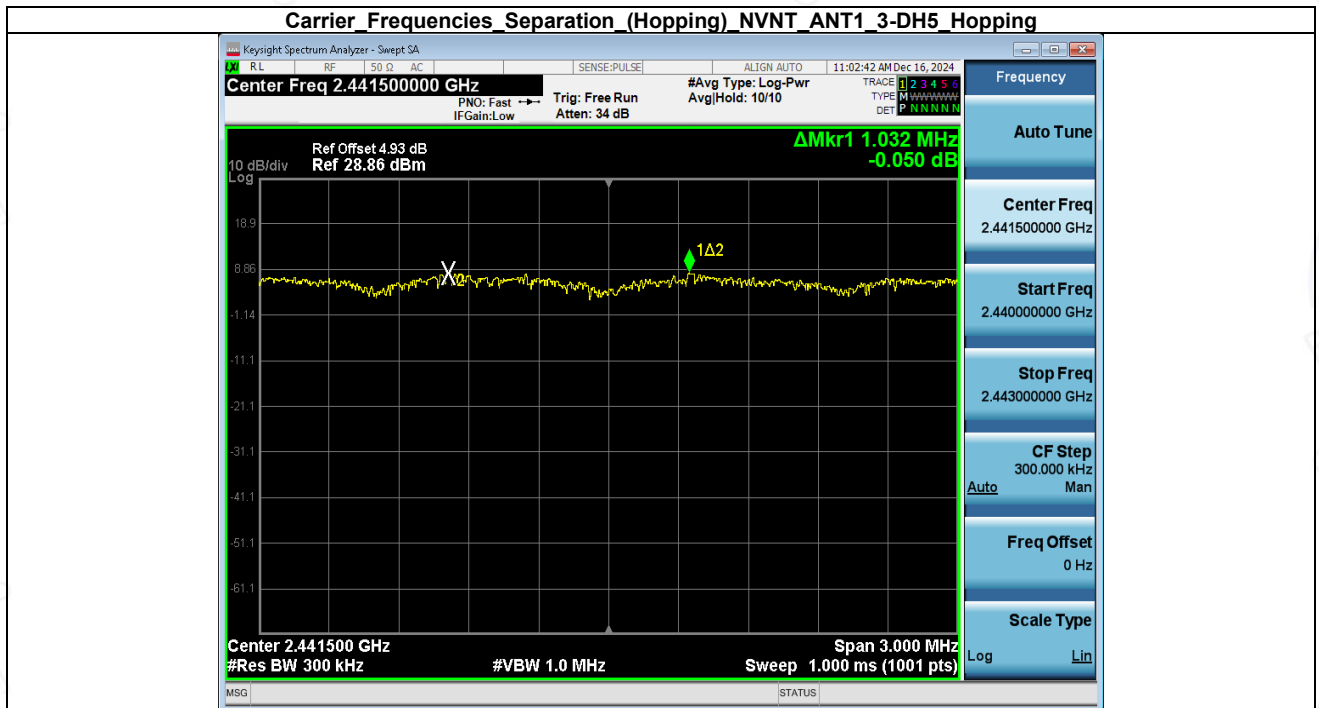


Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH5_Hopping



Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH5_Hopping





Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH5_Hopping

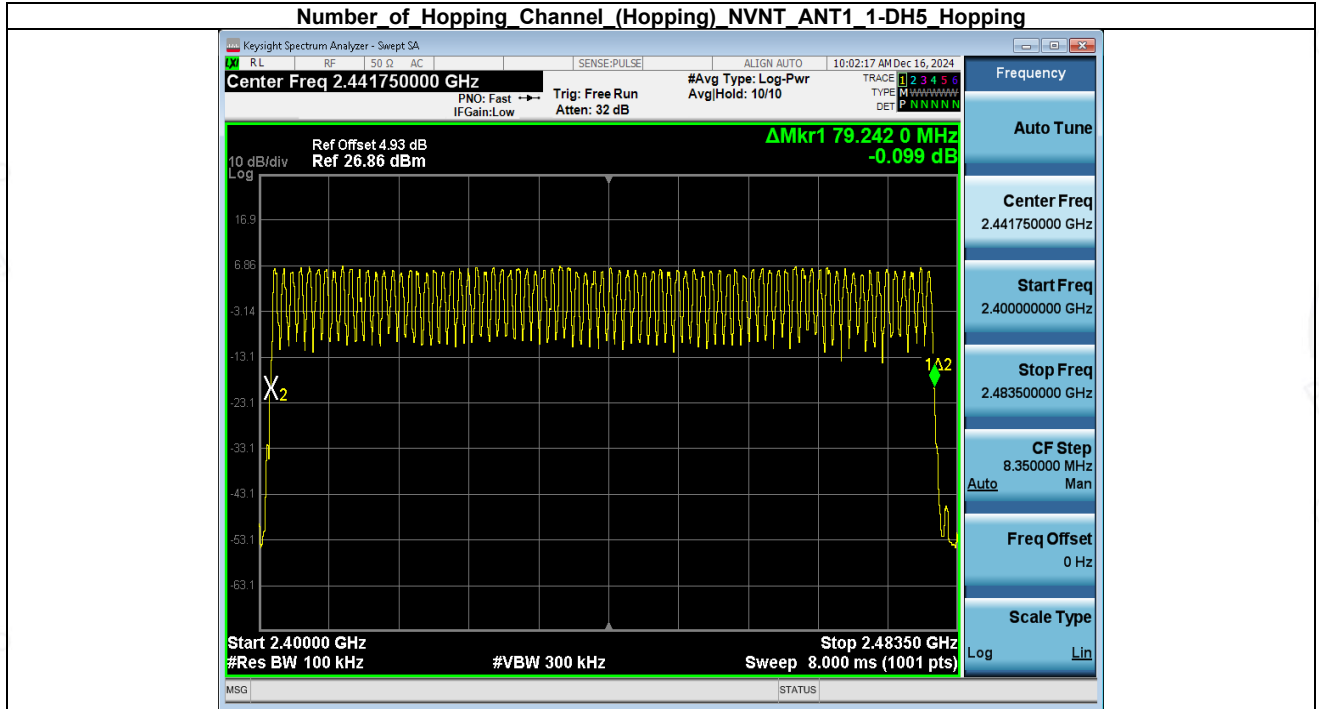




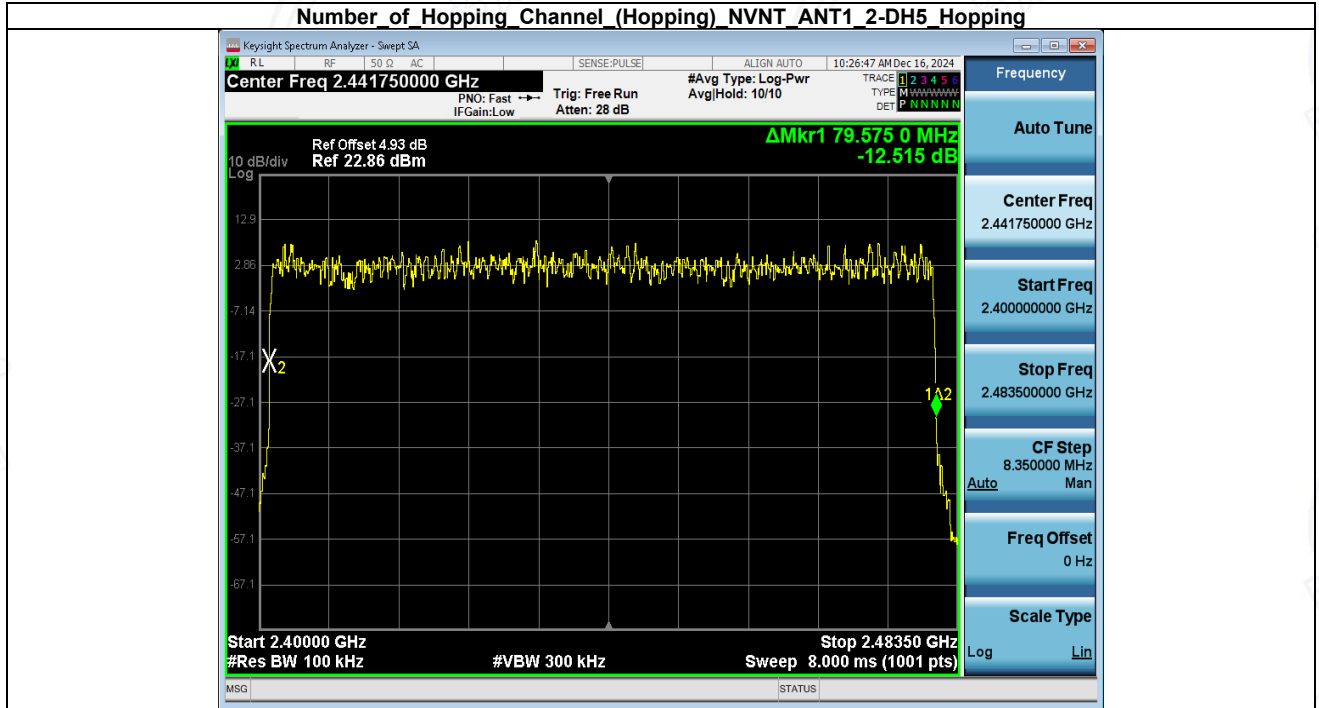
8. Number of Hopping Channel (Hopping)

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

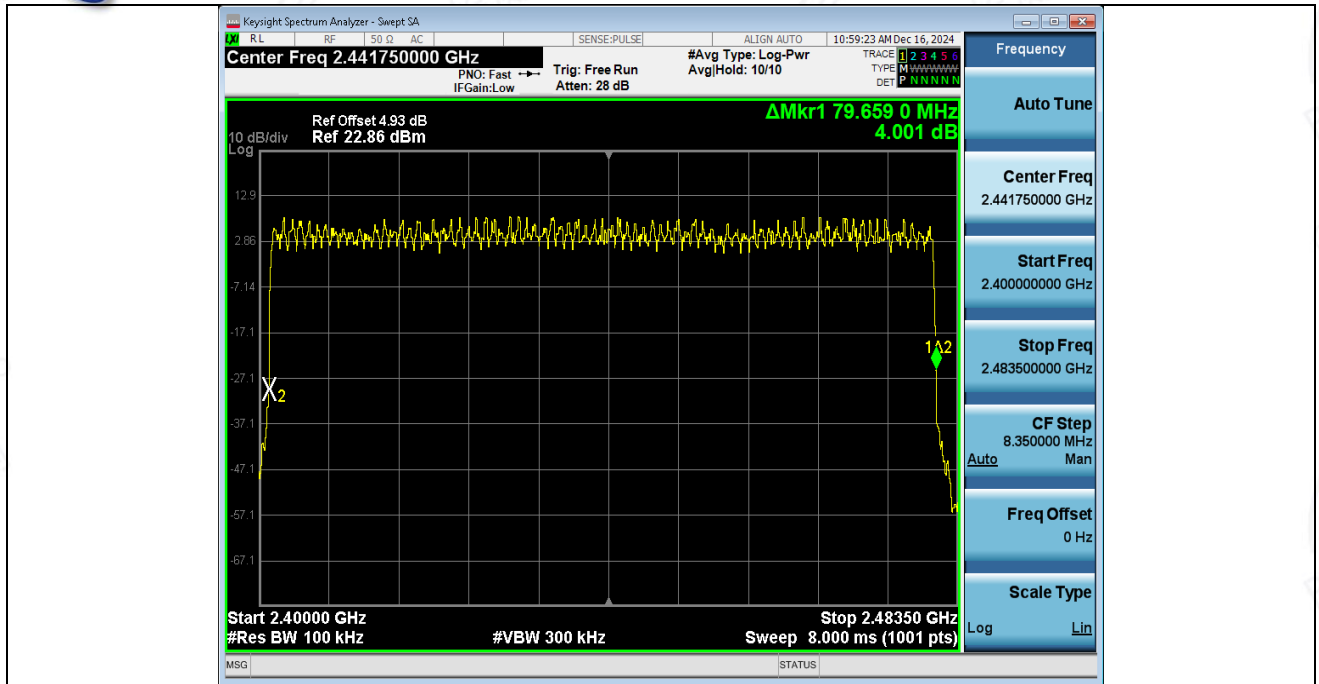


Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_2-DH5_Hopping

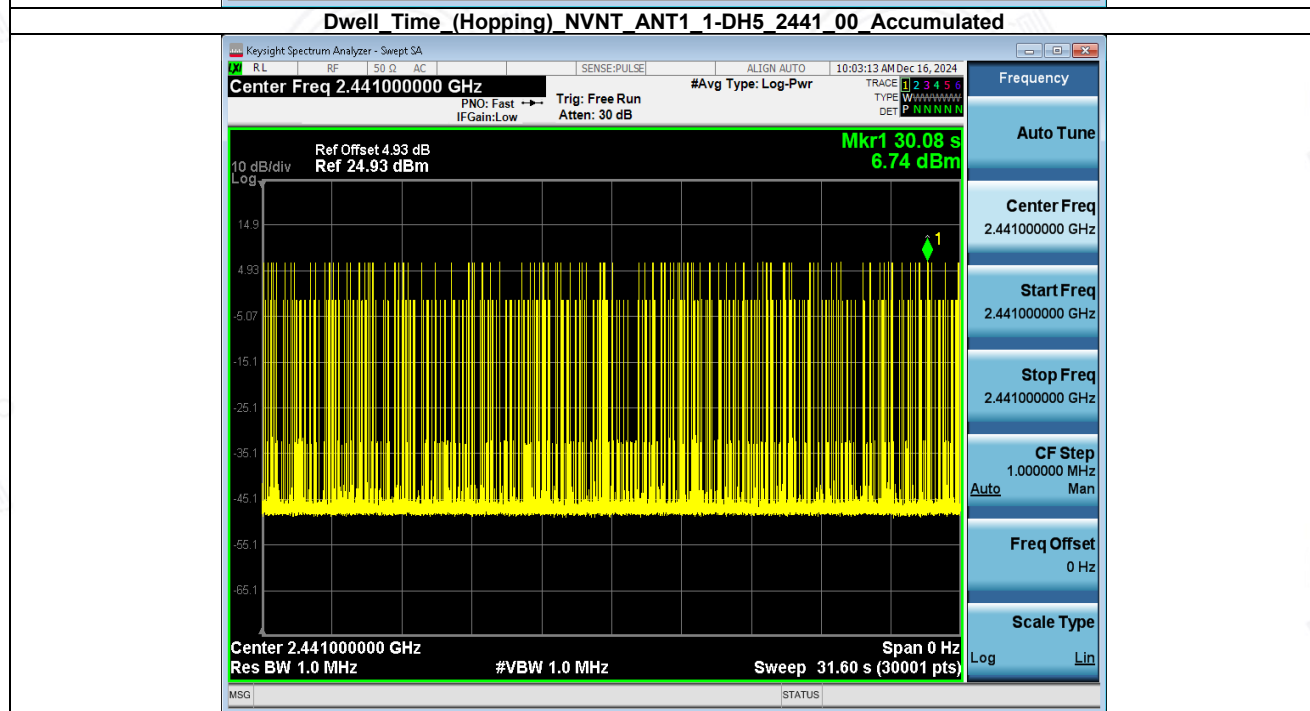


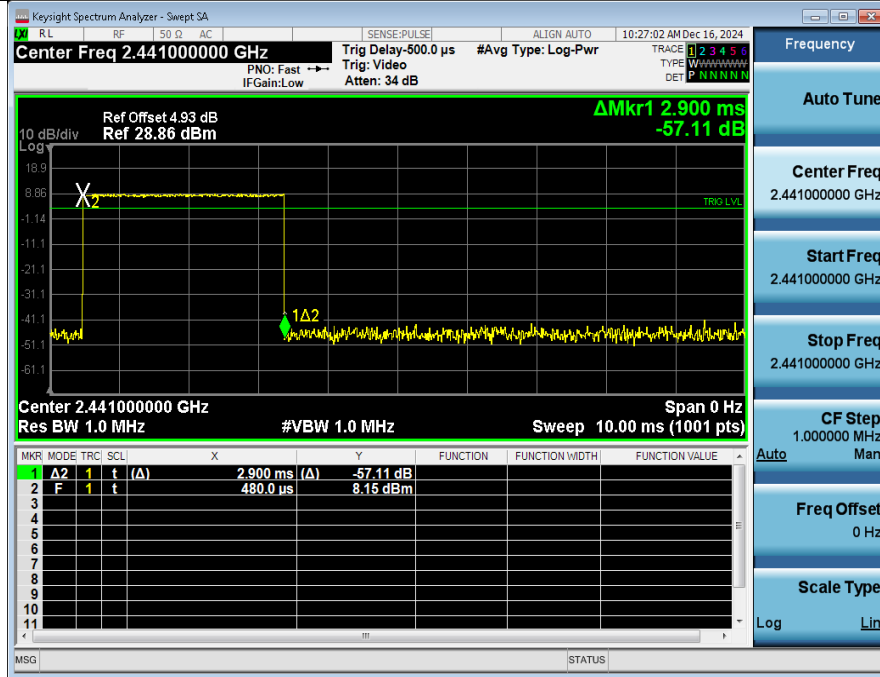
Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_3-DH5_Hopping



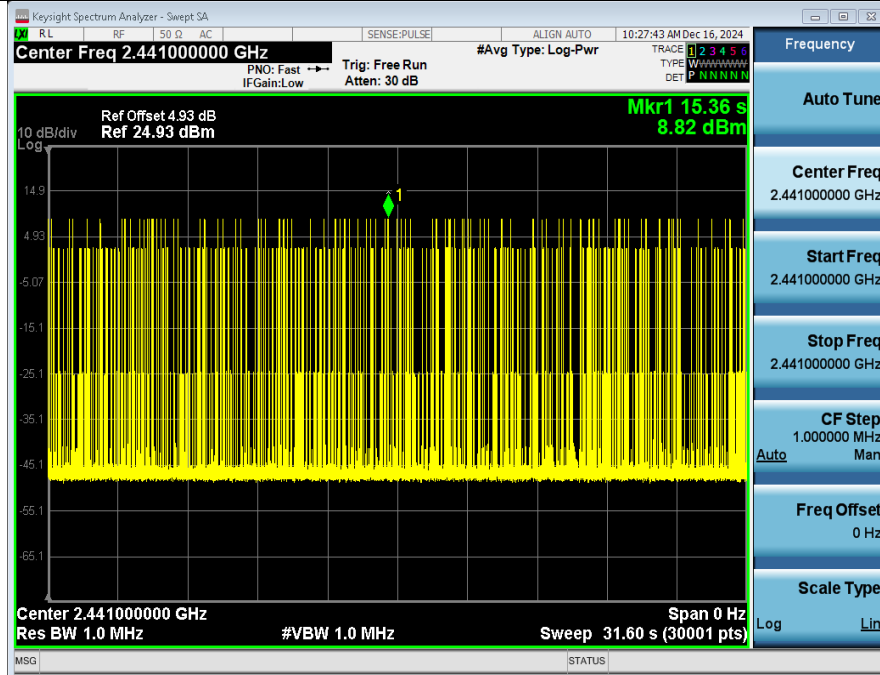


Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH5	2.900	113.00	327.700	0.40	Pass
NVNT	ANT1	2-DH5	2.900	100.00	290.000	0.40	Pass
NVNT	ANT1	3-DH5	2.900	116.00	336.400	0.40	Pass



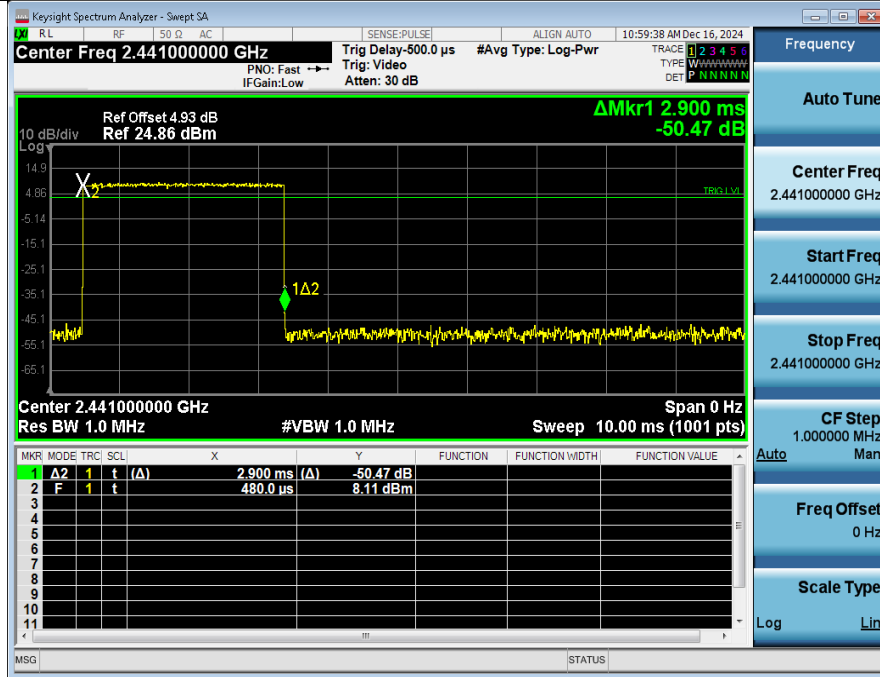


Dwell Time (Hopping) NVNT_ANT1_2-DH5_2441_00_Accumulated



Dwell Time (Hopping) NVNT_ANT1_3-DH5_2441_00_One_Burst_Time





Dwell Time (Hopping) NVNT_ANT1_3-DH5_2441_00_Accumulated

