

Appendix

Test Data

for BTEK240920007AE

Start date	2025/2/12	Finish date	2025/2/12
Temperature	20.3℃	Humidity	70%
RF specifications	BLE	Test Engineer	Zora



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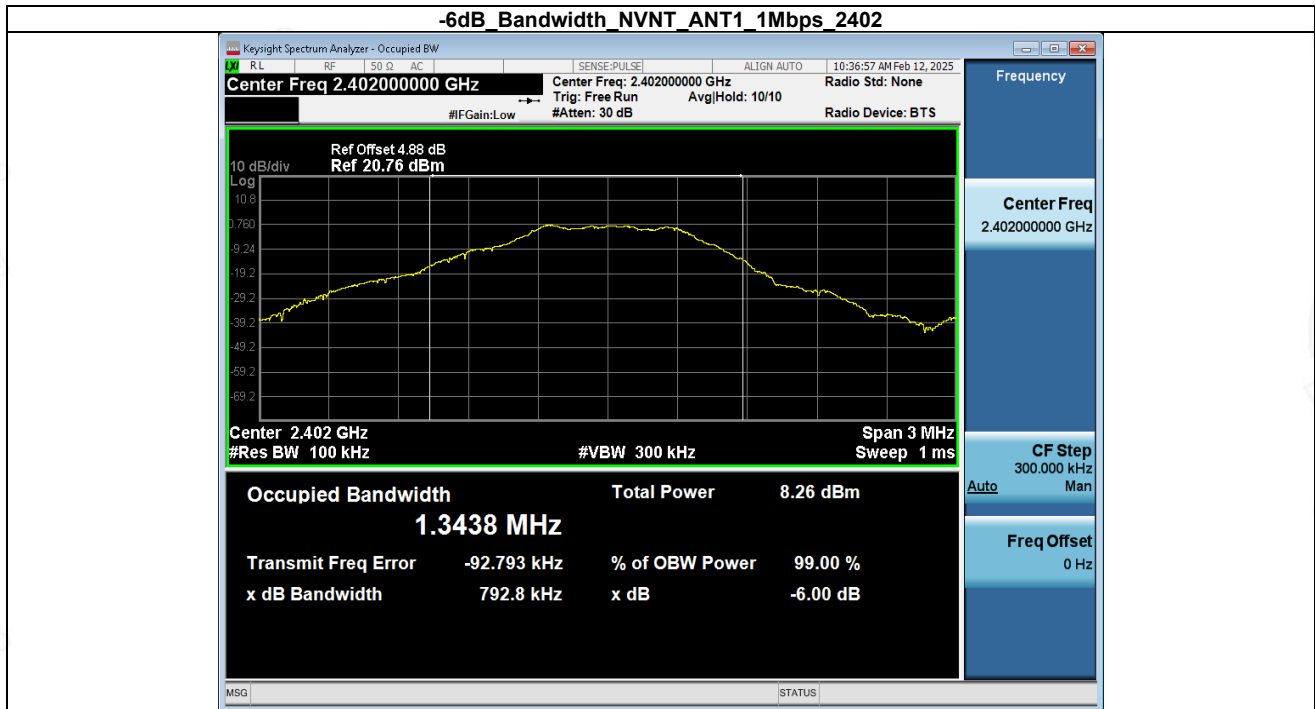
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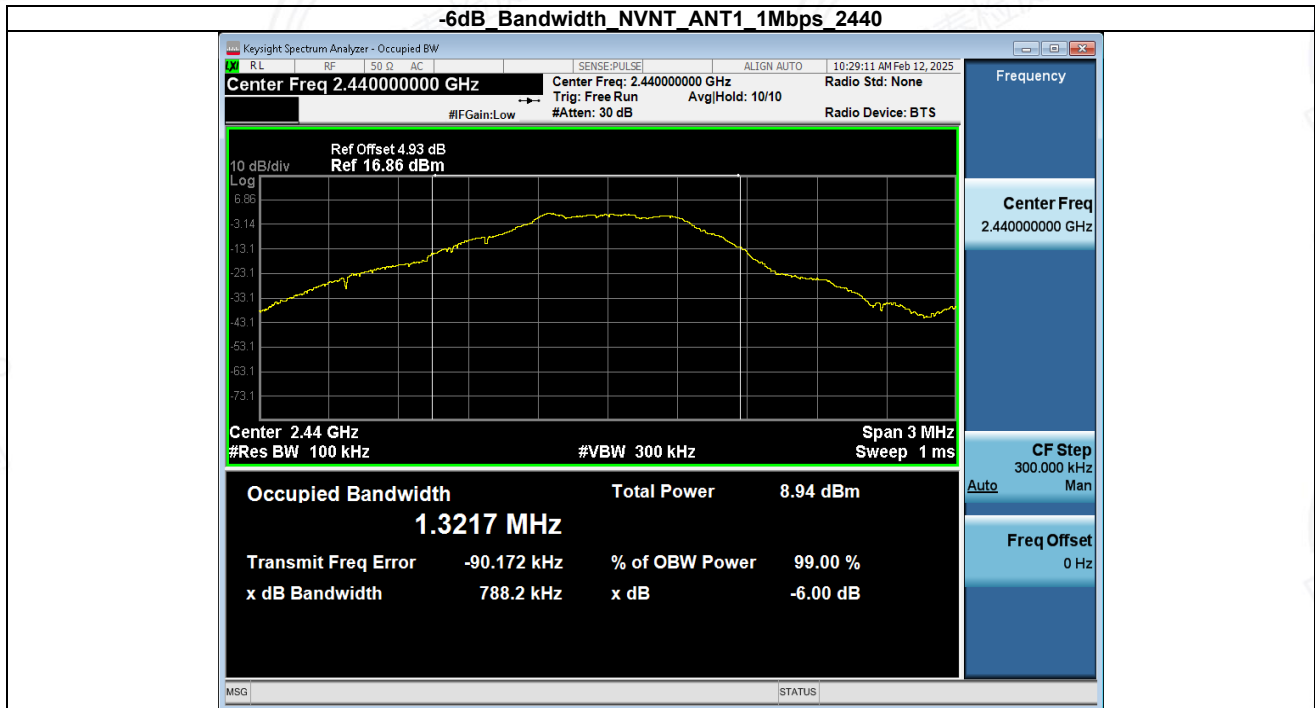
1. -6dB Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	-6dB BW(kHz)	limit(kHz)	Result
NVNT	ANT1	1Mbps	2402.00	792.76	500	Pass
NVNT	ANT1	1Mbps	2440.00	788.16	500	Pass
NVNT	ANT1	1Mbps	2480.00	794.29	500	Pass

-6dB_Bandwidth_NVNT_ANT1_1Mbps_2402



-6dB_Bandwidth_NVNT_ANT1_1Mbps_2440



-6dB_Bandwidth_NVNT_ANT1_1Mbps_2480

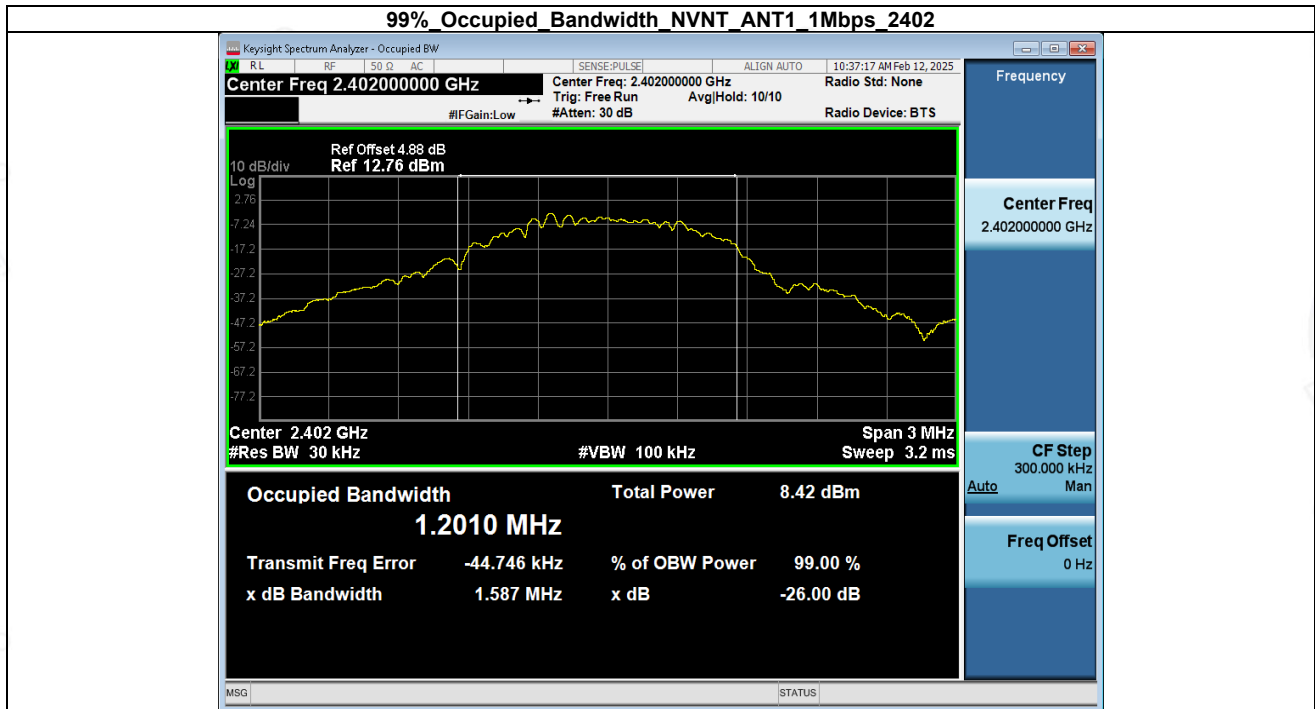




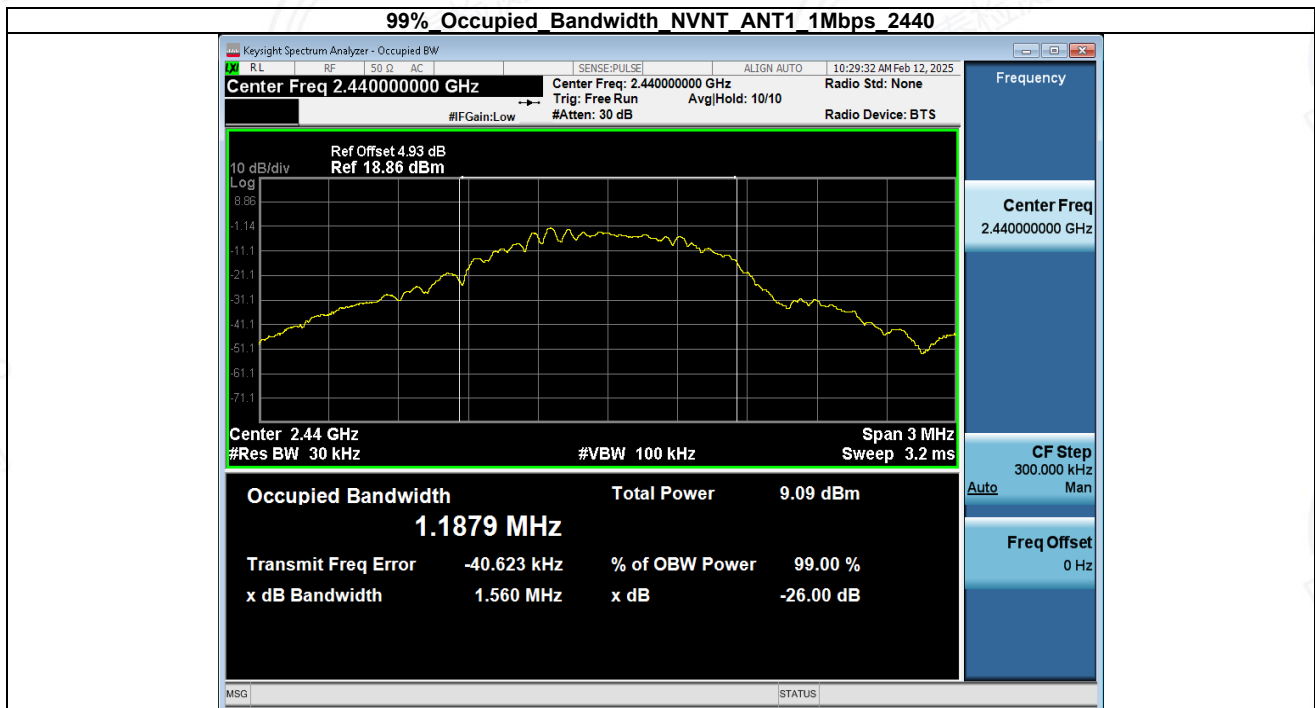
2. 99% Occupied Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	1Mbps	2402.00	1.201
NVNT	ANT1	1Mbps	2440.00	1.188
NVNT	ANT1	1Mbps	2480.00	1.170

99% Occupied Bandwidth NVNT ANT1 1Mbps 2402

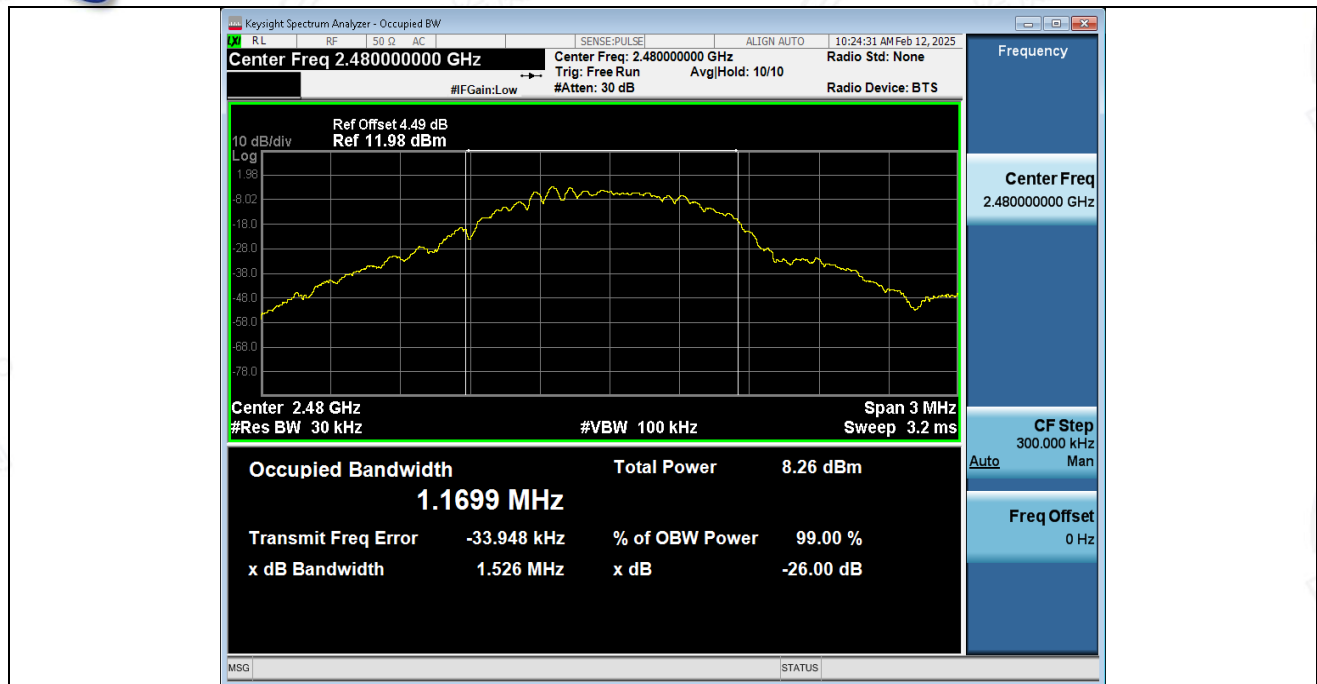


99% Occupied Bandwidth NVNT ANT1 1Mbps 2440



99% Occupied Bandwidth NVNT ANT1 1Mbps 2480

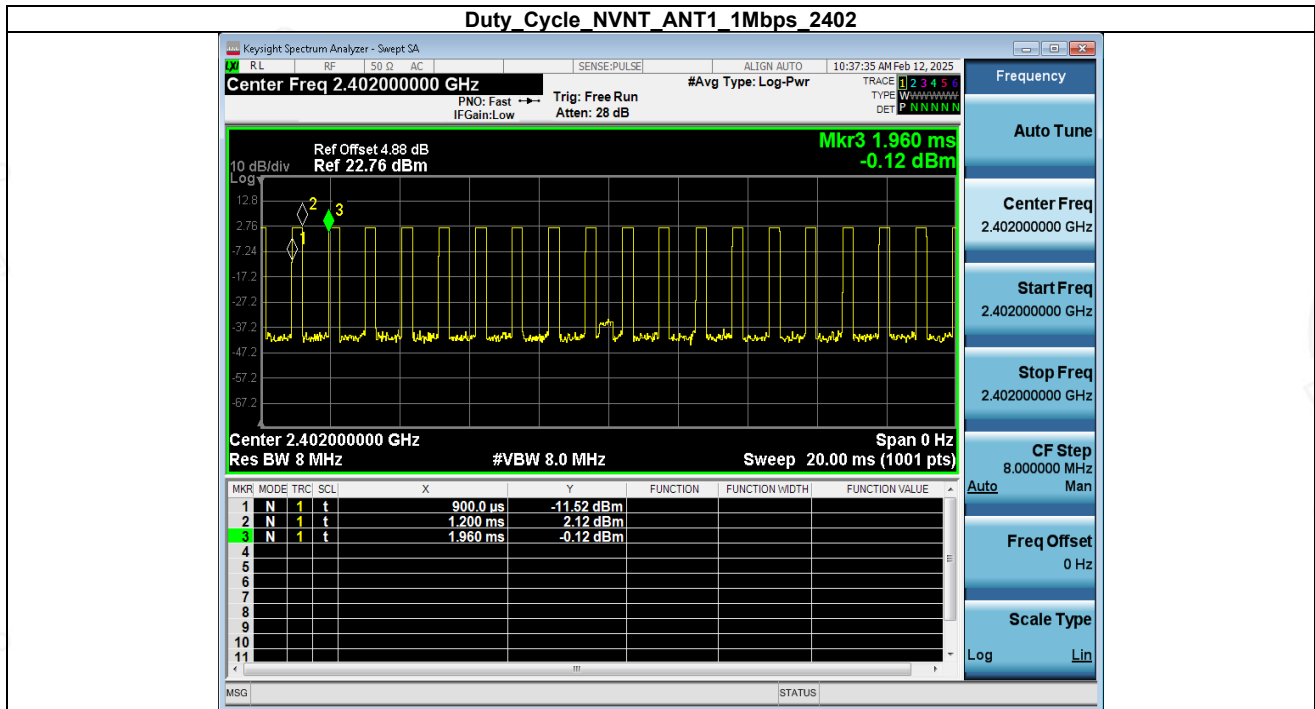




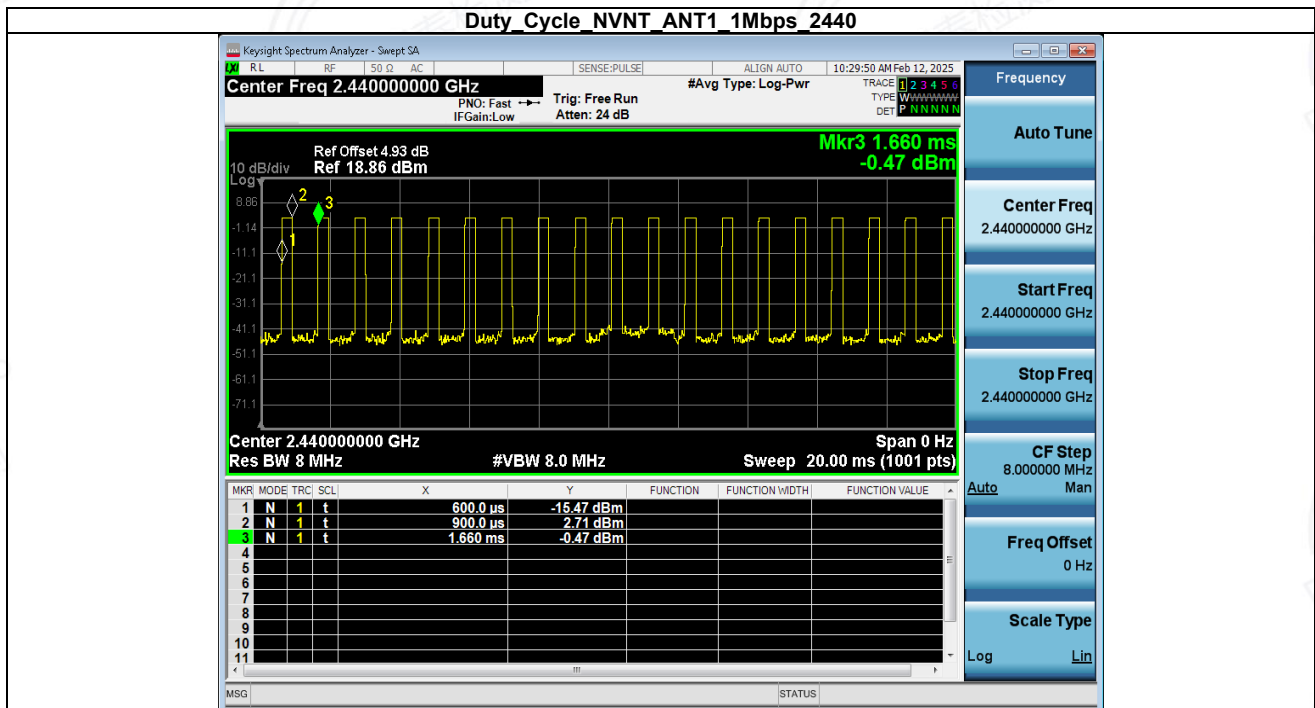
3. Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1Mbps	2402.00	30.19	5.20
NVNT	ANT1	1Mbps	2440.00	28.30	5.48
NVNT	ANT1	1Mbps	2480.00	26.42	5.78

Duty Cycle_NVNT_ANT1_1Mbps_2402

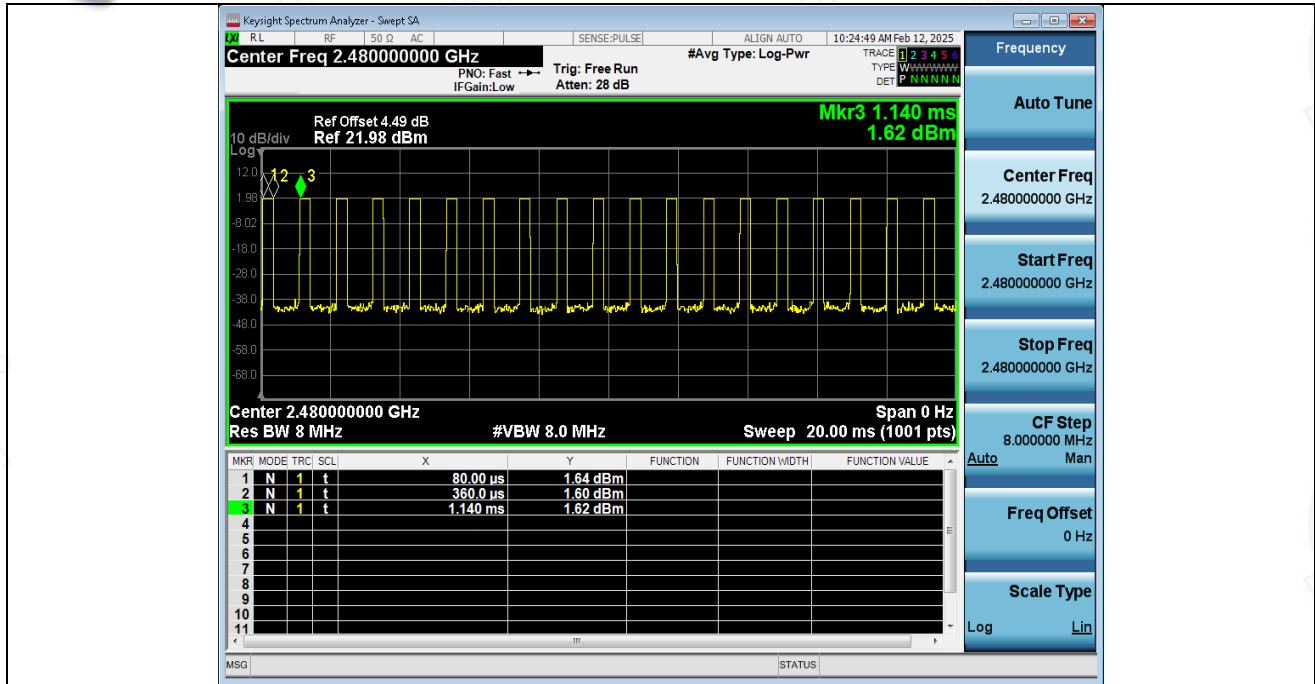


Duty Cycle_NVNT_ANT1_1Mbps_2440



Duty Cycle_NVNT_ANT1_1Mbps_2480





4. Peak Output Power

Condition	Antenna	Rate	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1Mbps	2402.00	2.17	1.65	1000	Pass
NVNT	ANT1	1Mbps	2440.00	2.73	1.88	1000	Pass
NVNT	ANT1	1Mbps	2480.00	1.66	1.46	1000	Pass

Peak_Output_Power_NVNT_ANT1_1Mbps_2402



Peak_Output_Power_NVNT_ANT1_1Mbps_2440



Peak_Output_Power_NVNT_ANT1_1Mbps_2480

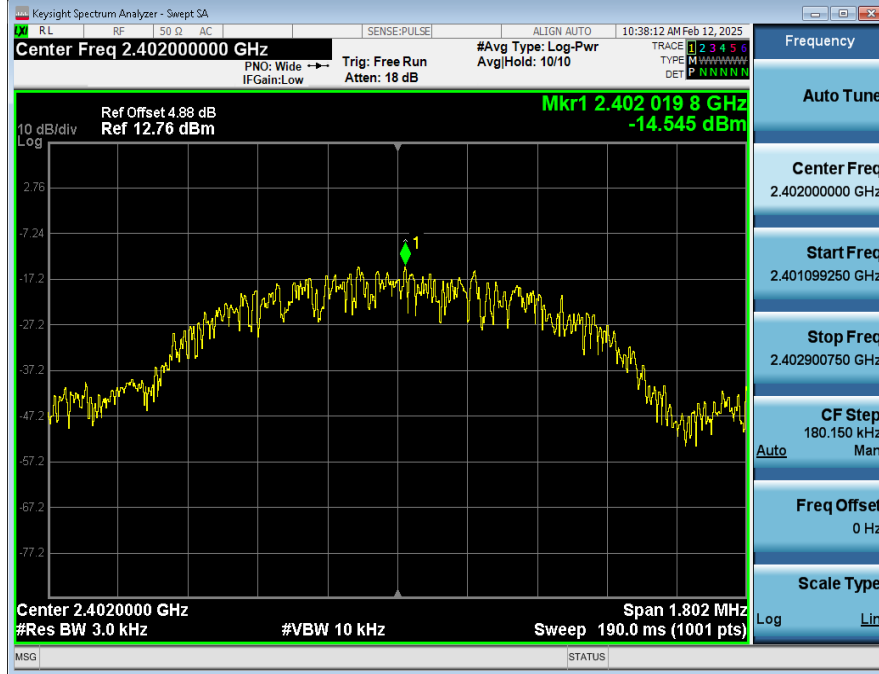




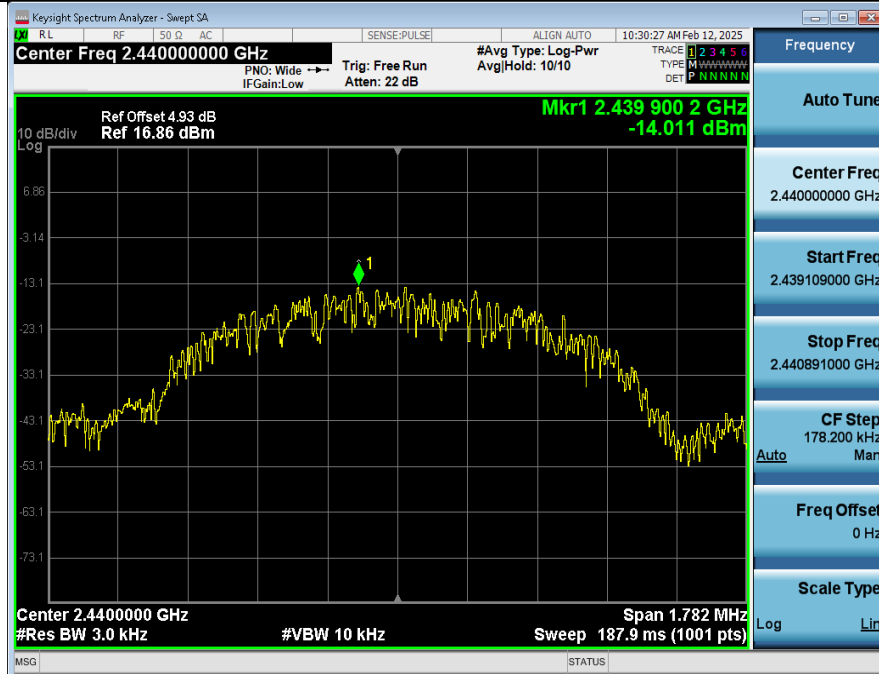
5. Power Spectral Density

Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm/3kHz)	Limit(dBm/3kHz)	Result
NVNT	ANT1	1Mbps	2402.00	-14.54	8	Pass
NVNT	ANT1	1Mbps	2440.00	-14.01	8	Pass
NVNT	ANT1	1Mbps	2480.00	-15.34	8	Pass

Power Spectral Density_NVNT_ANT1_1Mbps_2402



Power Spectral Density_NVNT_ANT1_1Mbps_2440



Power Spectral Density_NVNT_ANT1_1Mbps_2480





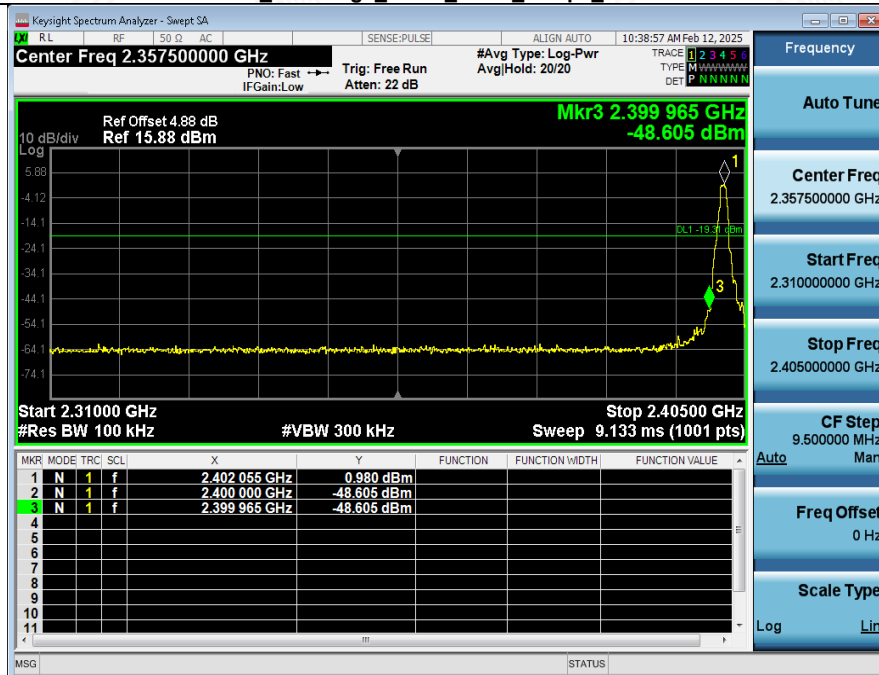
6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	1Mbps	2402.00	2399.965	0.693	-48.605	-19.307	Pass
NVNT	ANT1	1Mbps	2480.00	2483.625	0.232	-55.798	-19.768	Pass

1 Reference_Level_NVNT_ANT1_1Mbps_2402



2 Bandedge_NVNT_ANT1_1Mbps_2402

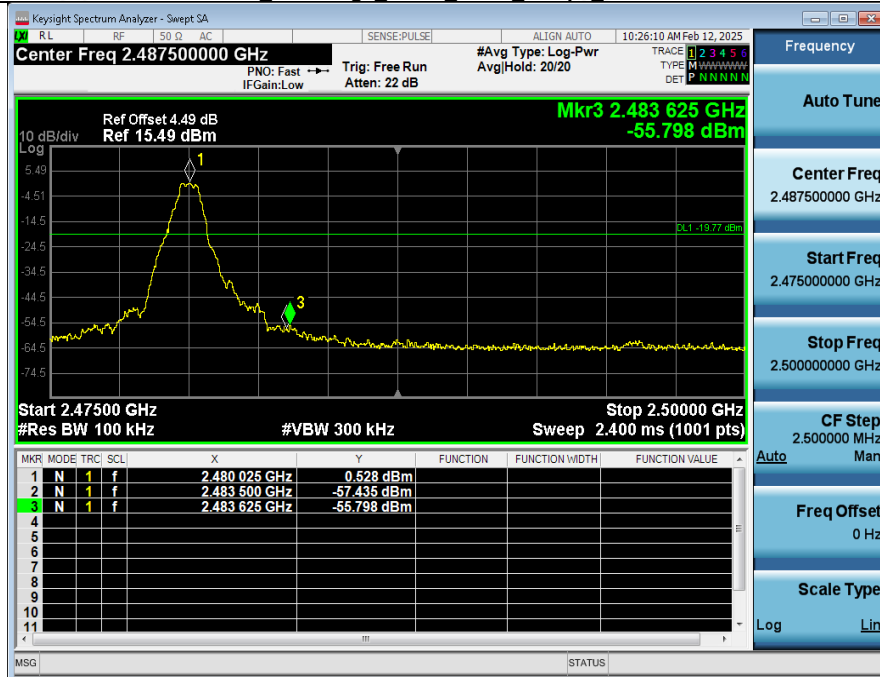


1 Reference_Level_NVNT_ANT1_1Mbps_2480





2_Bandedge_NVNT_ANT1_1Mbps_2480



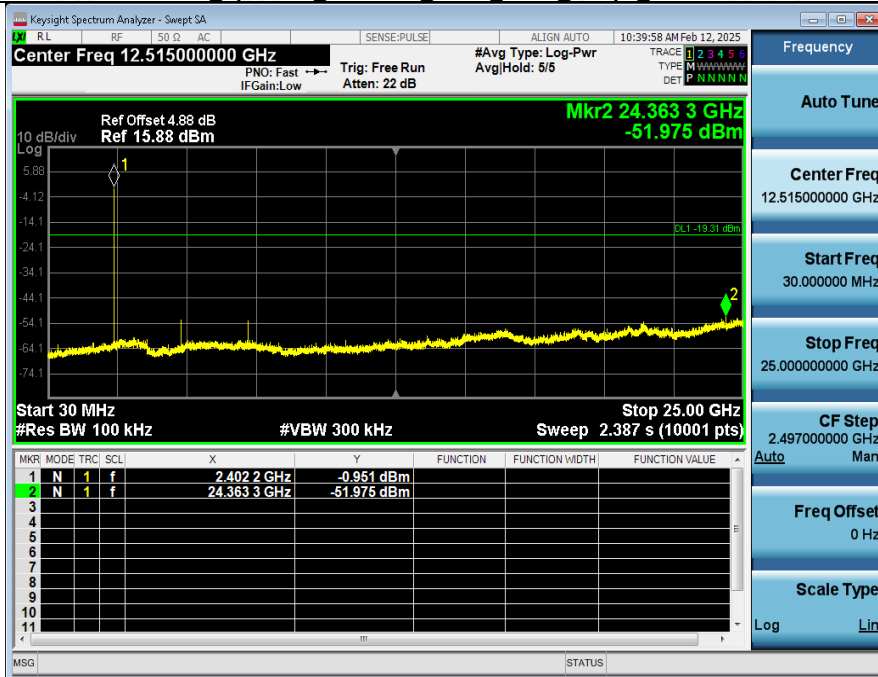
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	1Mbps	2402.00	0.693	-51.975	-19.307	Pass
NVNT	ANT1	1Mbps	2440.00	1.219	-53.941	-18.781	Pass
NVNT	ANT1	1Mbps	2480.00	0.232	-52.748	-19.768	Pass

1 Reference_Level_NVNT_ANT1_1Mbps_2402



2 Spurious Emission_NVNT_ANT1_1Mbps_2402

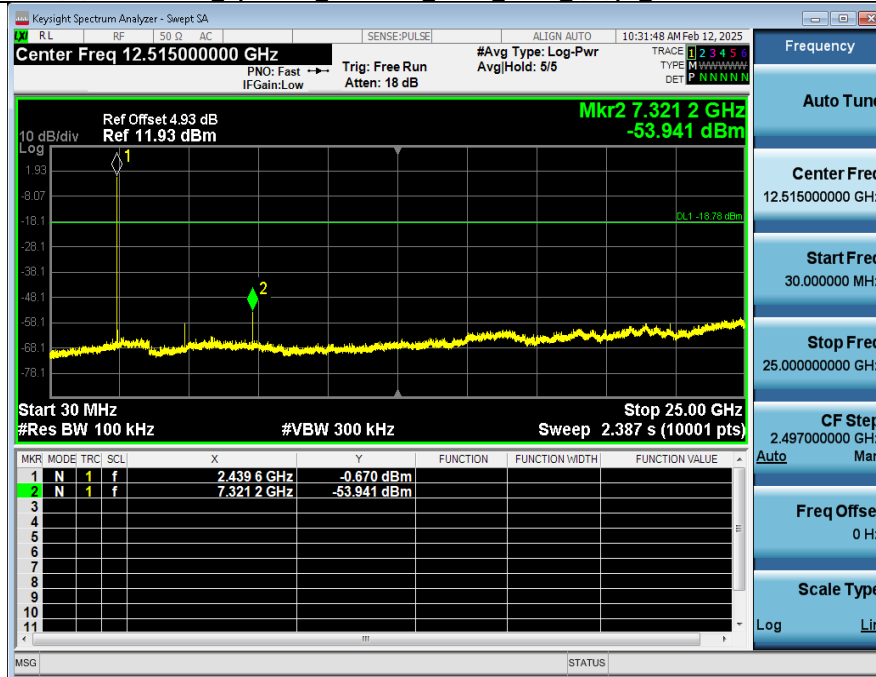


1 Reference_Level_NVNT_ANT1_1Mbps_2440





2_Spurious_Emission_NVNT_ANT1_1Mbps_2440



1_Reference_Level_NVNT_ANT1_1Mbps_2480





2_Spurious Emission_NVNT_ANT1_1Mbps_2480

