

Appendix

Test Data

for BTEK250110050A01-T05

Start date	2025/2/27	Finish date	2025/2/27
Temperature	20.0℃	Humidity	55%
RF specifications	BLE_500kbps	Test Engineer	Zora



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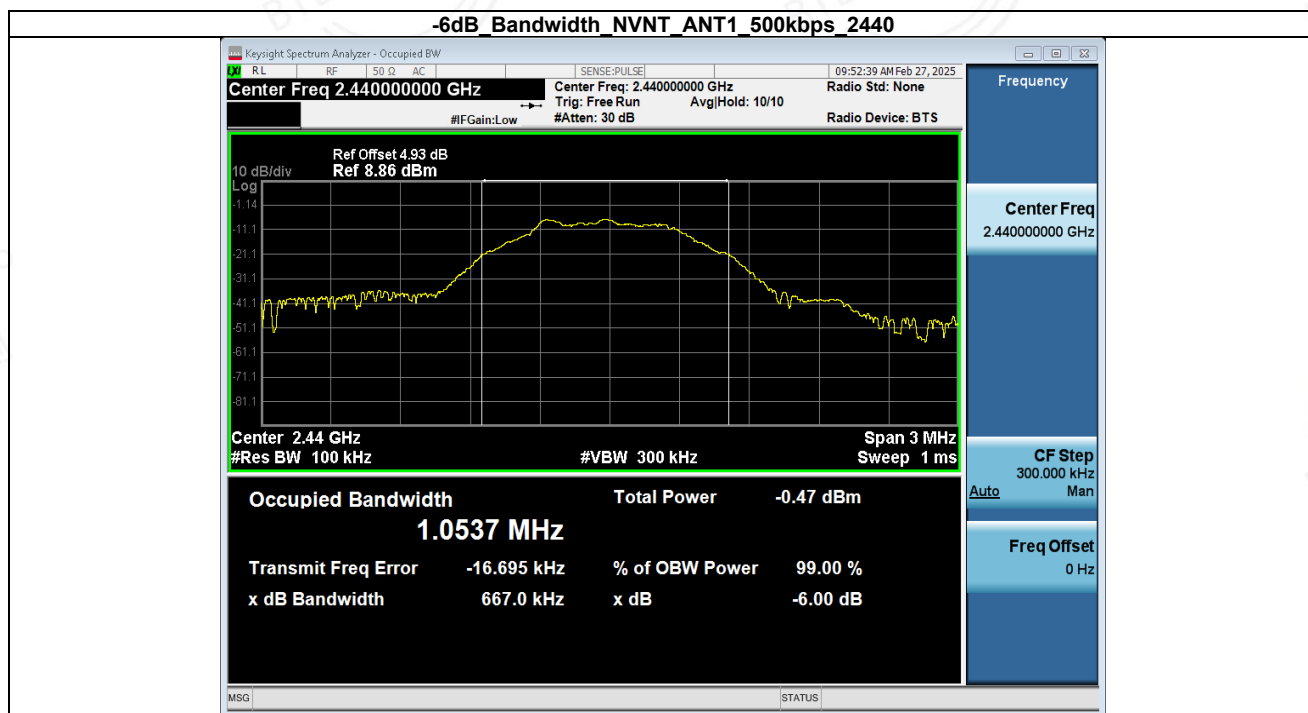
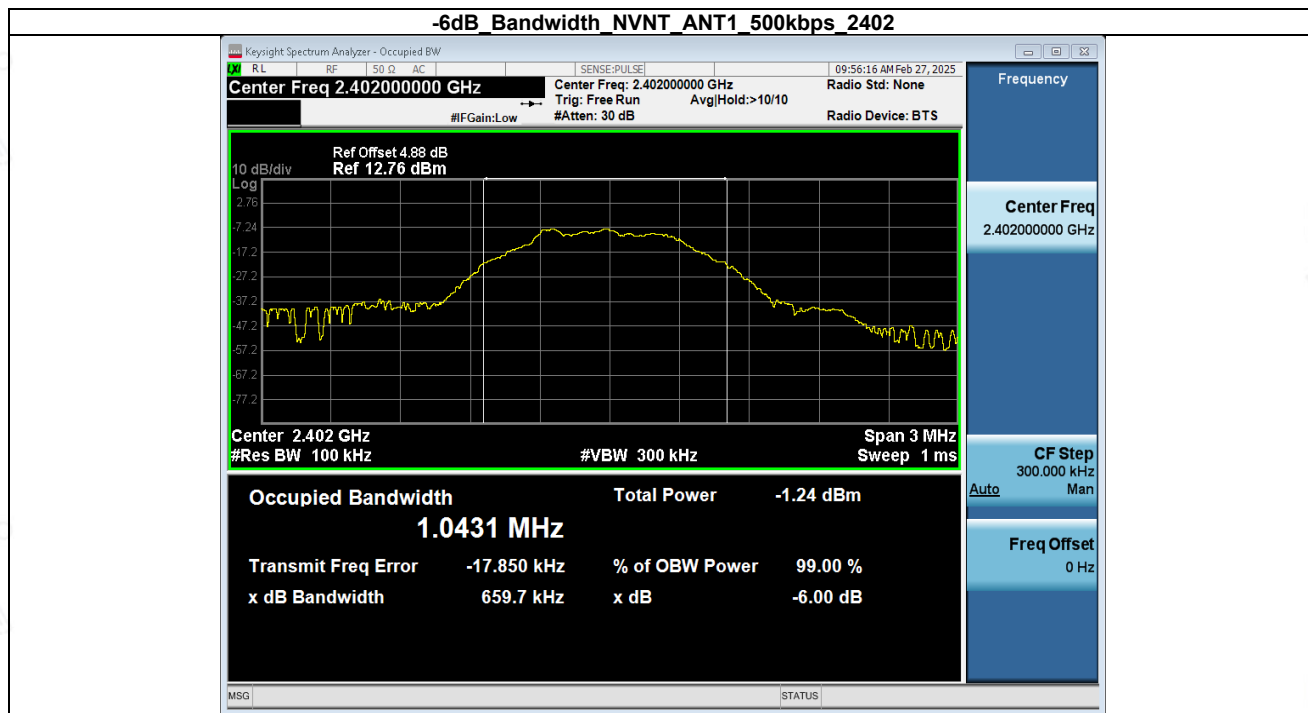
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BTEK250110050A01-T05 S2 FCC_BLE (Part15.247) Test Data

1. -6dB Bandwidth

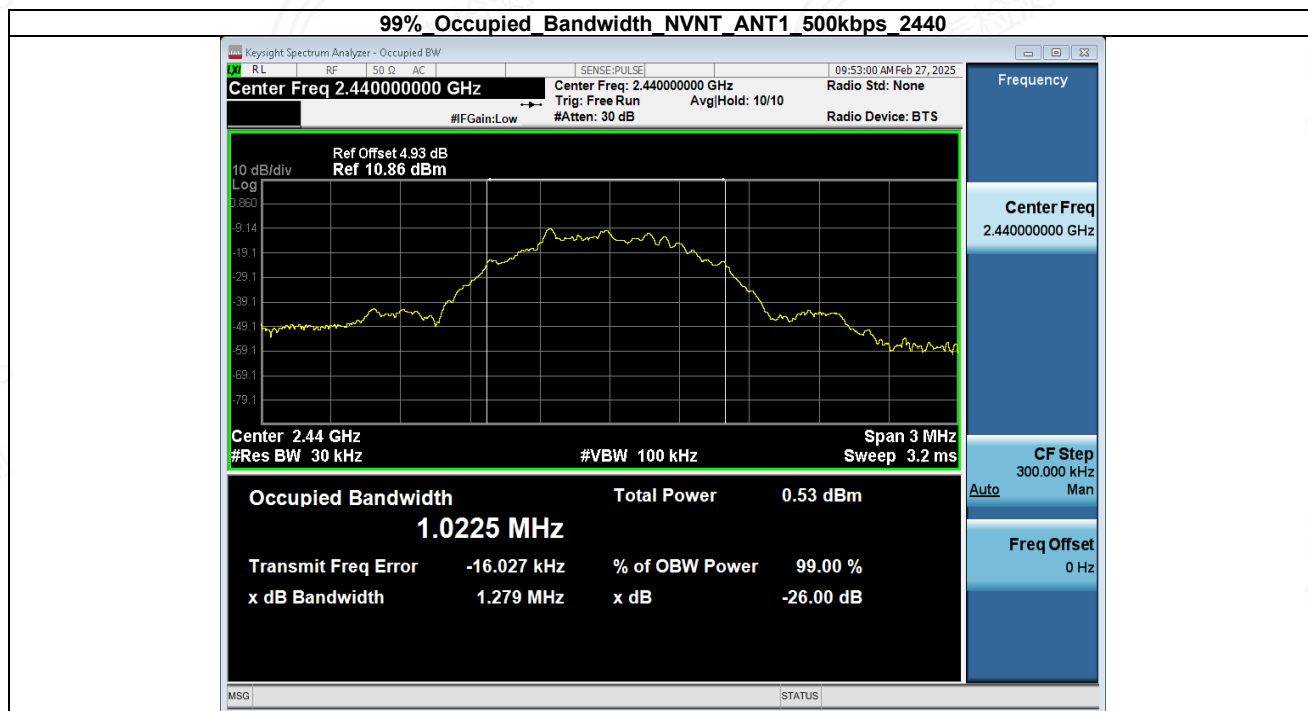
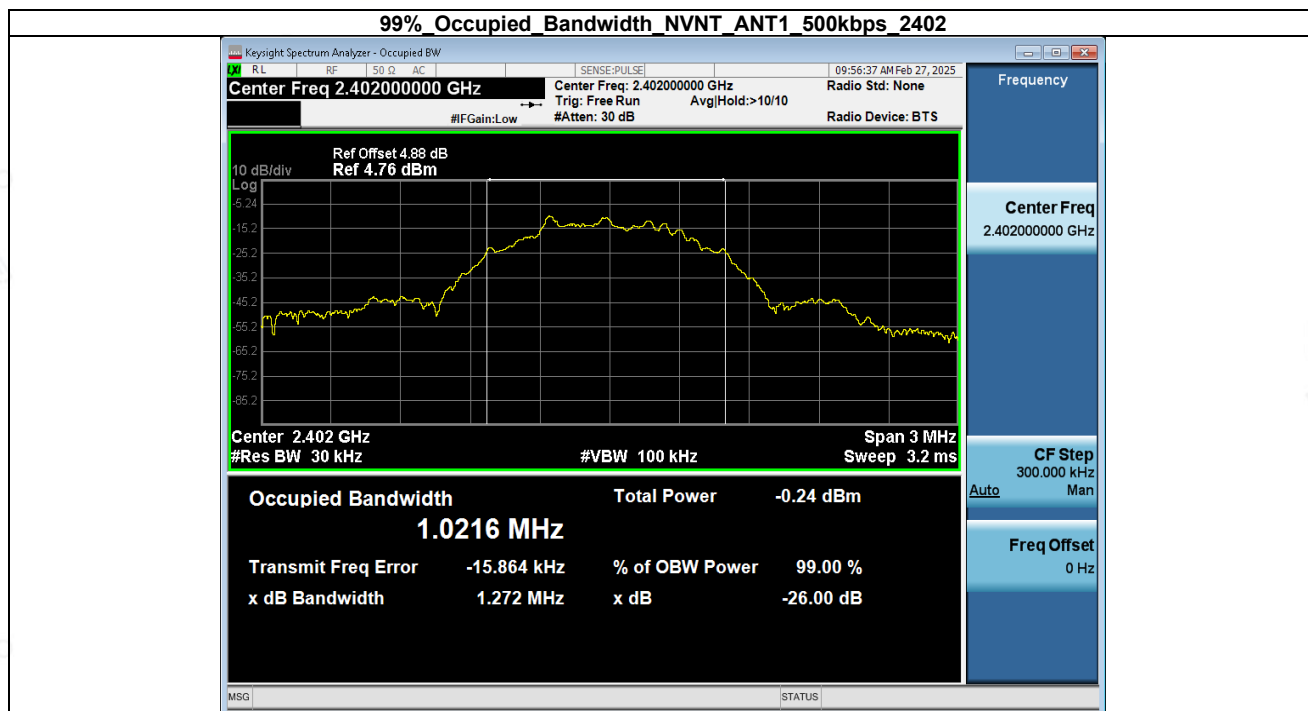
Condition	Antenna	Rate	Frequency (MHz)	-6dB BW(kHz)	limit(kHz)	Result
NVNT	ANT1	500kbps	2402.00	659.72	500	Pass
NVNT	ANT1	500kbps	2440.00	666.98	500	Pass
NVNT	ANT1	500kbps	2480.00	664.85	500	Pass





2. 99% Occupied Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	500kbps	2402.00	1.022
NVNT	ANT1	500kbps	2440.00	1.022
NVNT	ANT1	500kbps	2480.00	1.022



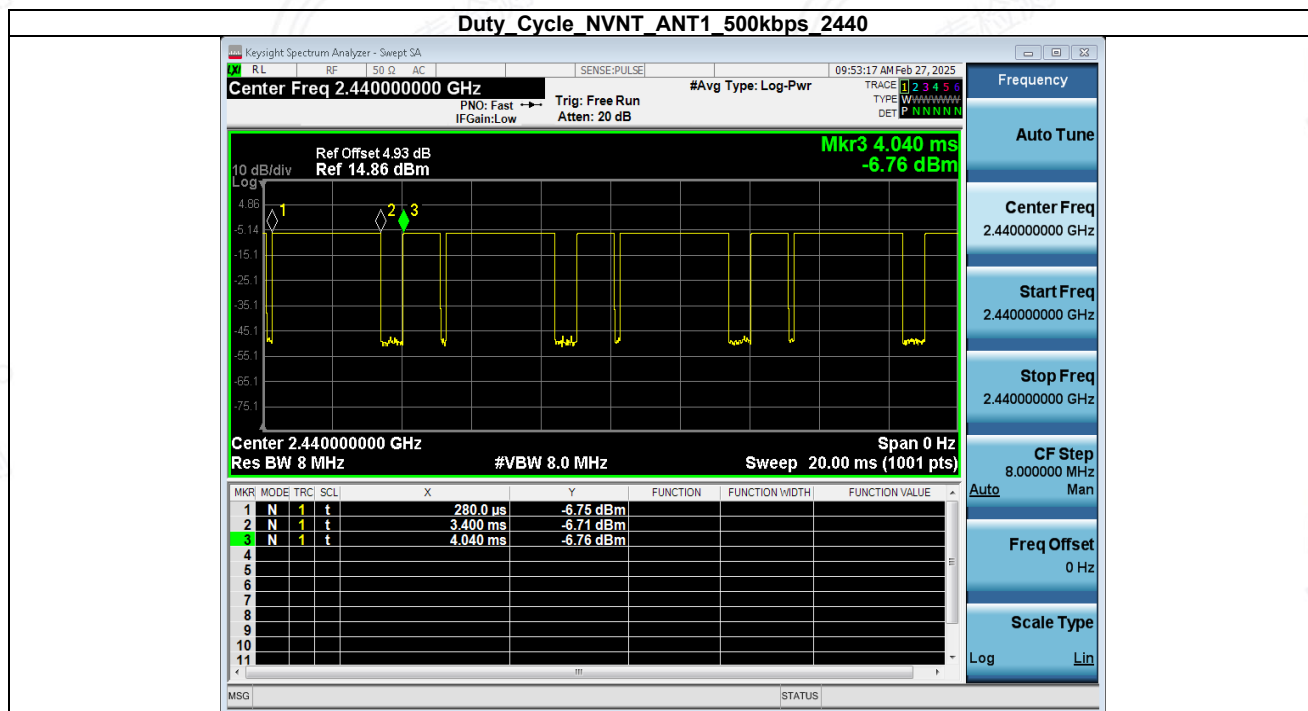
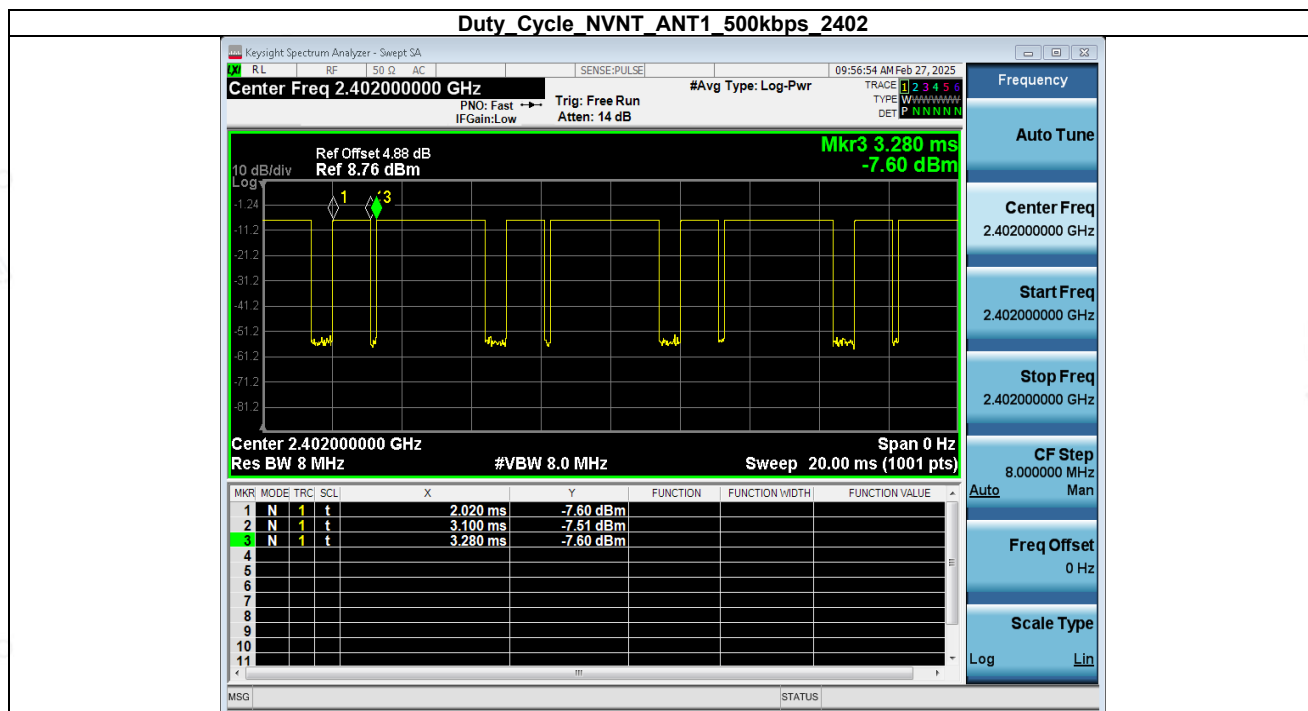
99%_Occupied_Bandwidth_NVNT_ANT1_500kbps_2480





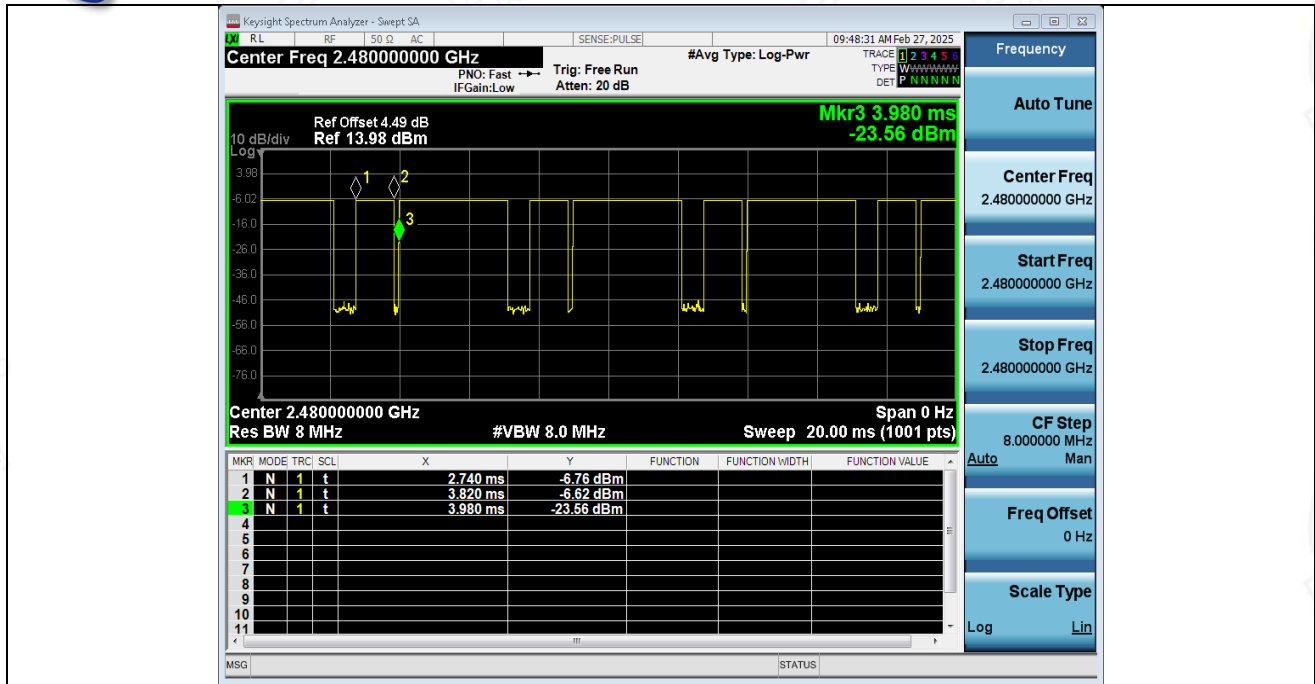
3. Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	500kbps	2402.00	87.30	0.59
NVNT	ANT1	500kbps	2440.00	83.51	0.78
NVNT	ANT1	500kbps	2480.00	88.71	0.52



Duty Cycle NVNT_ANT1_500kbps_2480





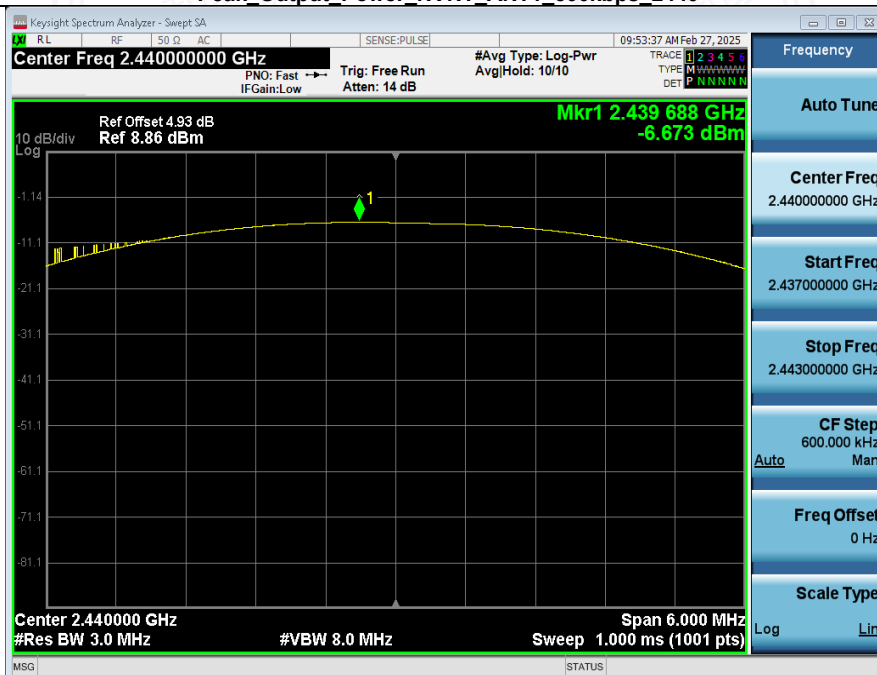
4. Peak Output Power

Condition	Antenna	Rate	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	500kbps	2402.00	-7.46	0.18	1000	Pass
NVNT	ANT1	500kbps	2440.00	-6.67	0.22	1000	Pass
NVNT	ANT1	500kbps	2480.00	-6.64	0.22	1000	Pass

Peak_Output_Power_NVNT_ANT1_500kbps_2402

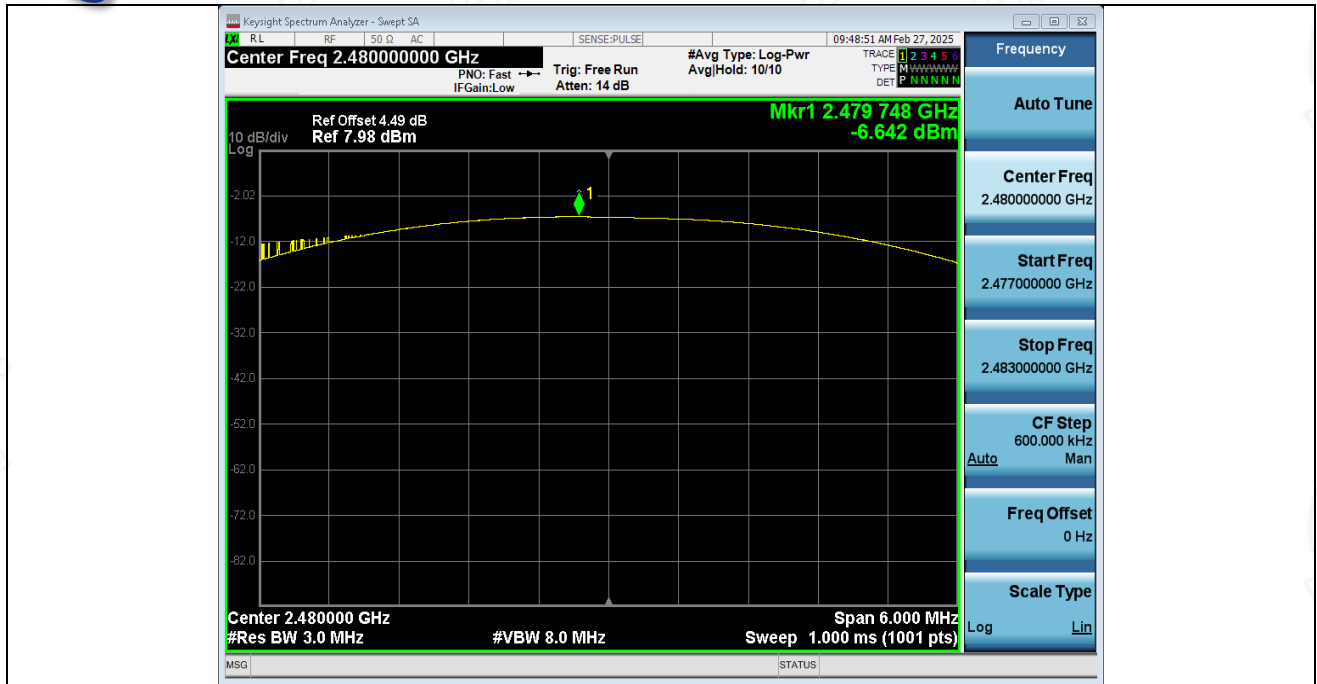


Peak_Output_Power_NVNT_ANT1_500kbps_2440



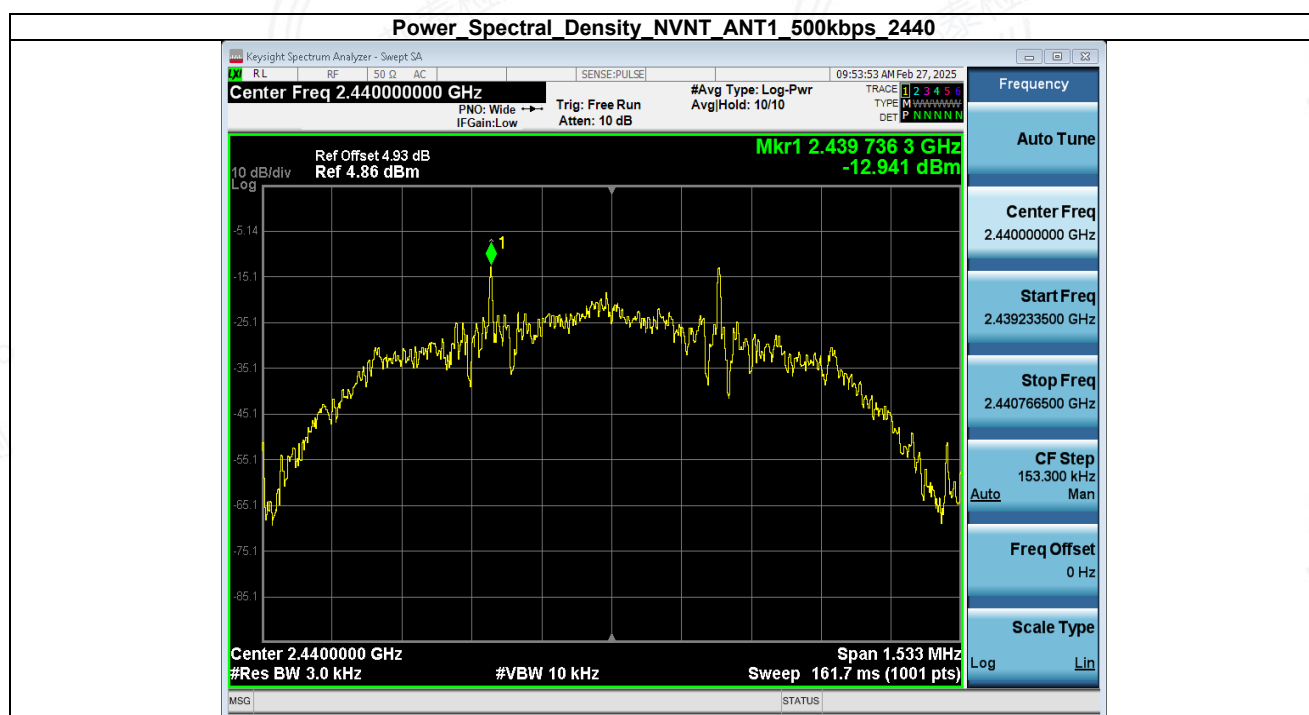
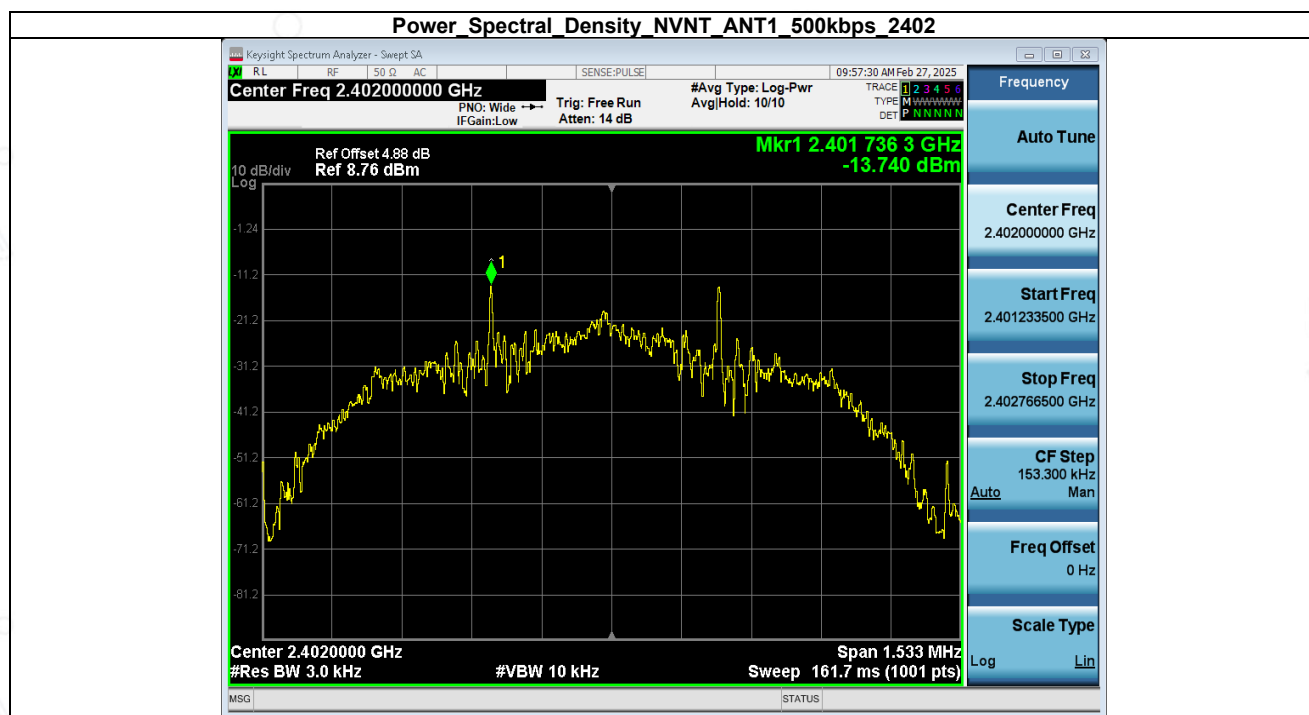
Peak_Output_Power_NVNT_ANT1_500kbps_2480





5. Power Spectral Density

Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm/3kHz)	Limit(dBm/3kHz)	Result
NVNT	ANT1	500kbps	2402.00	-13.74	8	Pass
NVNT	ANT1	500kbps	2440.00	-12.94	8	Pass
NVNT	ANT1	500kbps	2480.00	-12.96	8	Pass



Power Spectral Density NVNT_ANT1_500kbps_2480





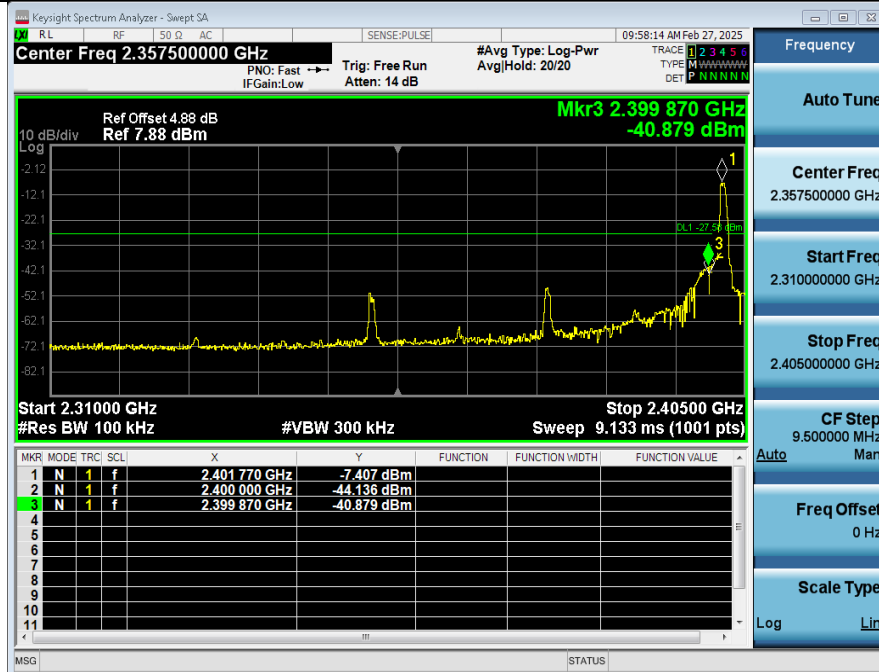
6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	500kbps	2402.00	2399.870	-7.583	-40.879	-27.583	Pass
NVNT	ANT1	500kbps	2480.00	2483.600	-6.764	-52.880	-26.764	Pass

1 Reference Level NVNT_ANT1_500kbps_2402

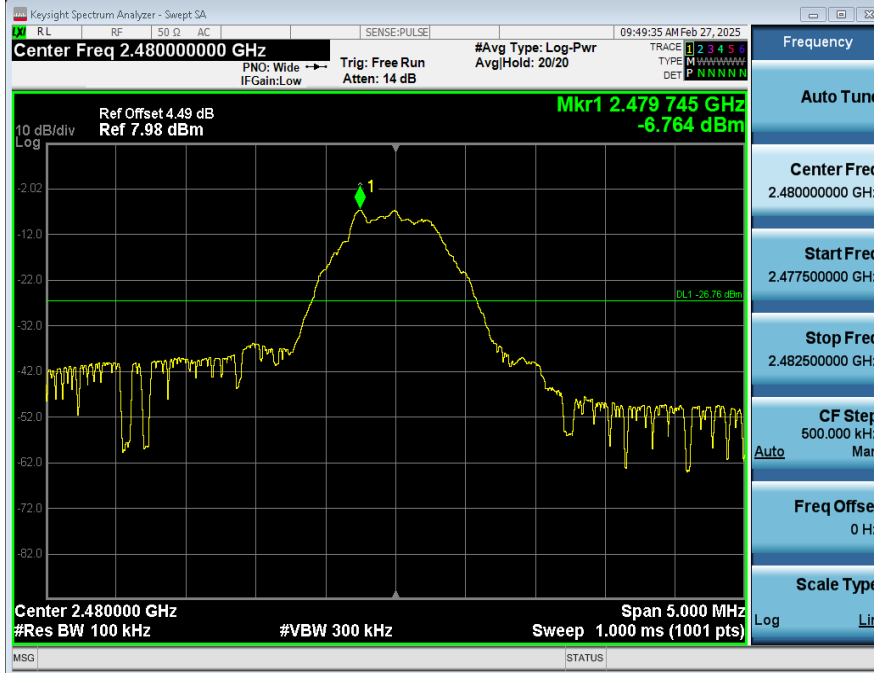


2 Bandedge NVNT_ANT1_500kbps_2402

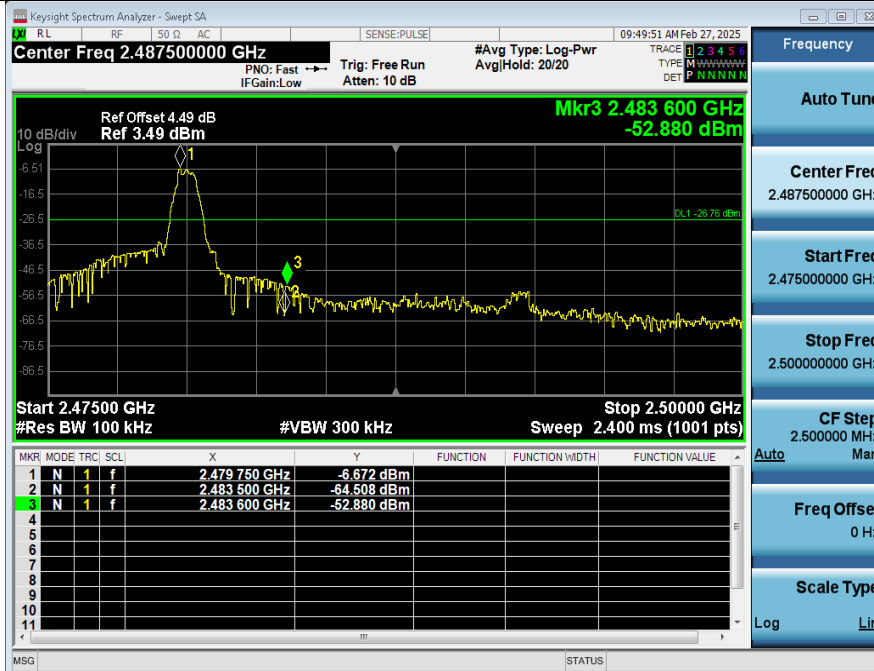


1 Reference Level NVNT_ANT1_500kbps_2480





2_Bandedge_NVNT_ANT1_500kbps_2480



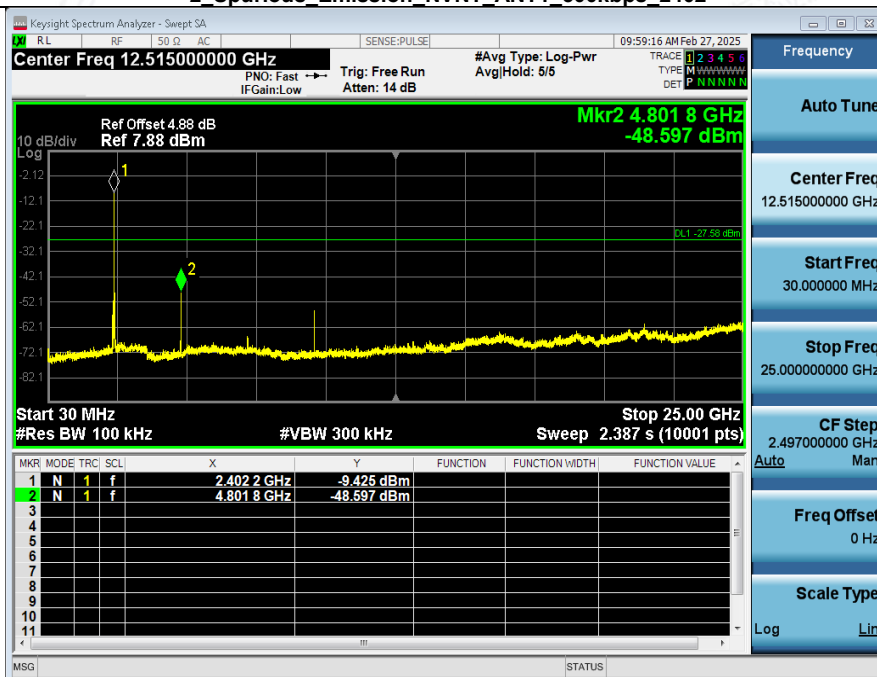
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	500kbps	2402.00	-7.583	-48.597	-27.583	Pass
NVNT	ANT1	500kbps	2440.00	-6.811	-47.478	-26.811	Pass
NVNT	ANT1	500kbps	2480.00	-6.764	-41.582	-26.764	Pass

1 Reference Level NVNT_ANT1_500kbps_2402



2 Spurious Emission NVNT_ANT1_500kbps_2402

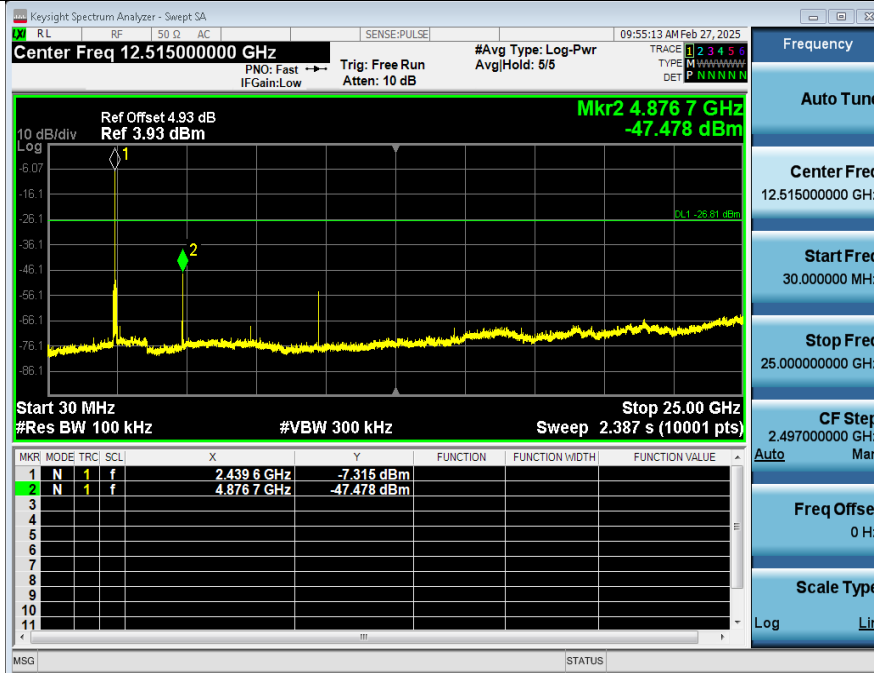


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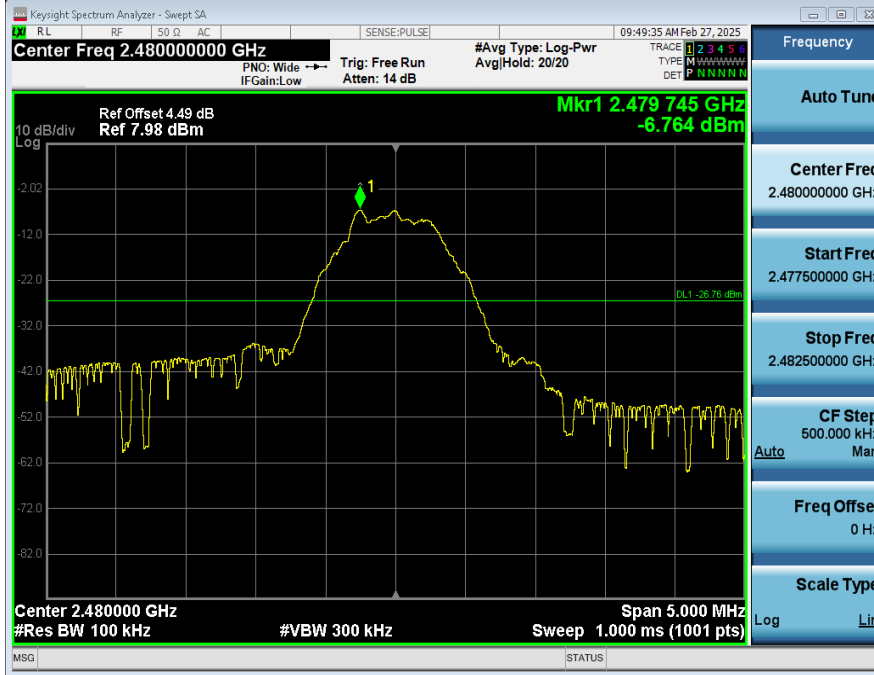


2_Spurious_Emission_NVNT_ANT1_500kbps_2440



1_Reference_Level_NVNT_ANT1_500kbps_2480





2_Spurious_Emission_NVNT_ANT1_500kbps_2480

