

Appendix

Test Data

for BTEK241218089A01E02

Start date	2024/12/30	Finish date	2024/12/30
Temperature	21.3℃	Humidity	33%
RF specifications	125kbps	Test Engineer	Zora



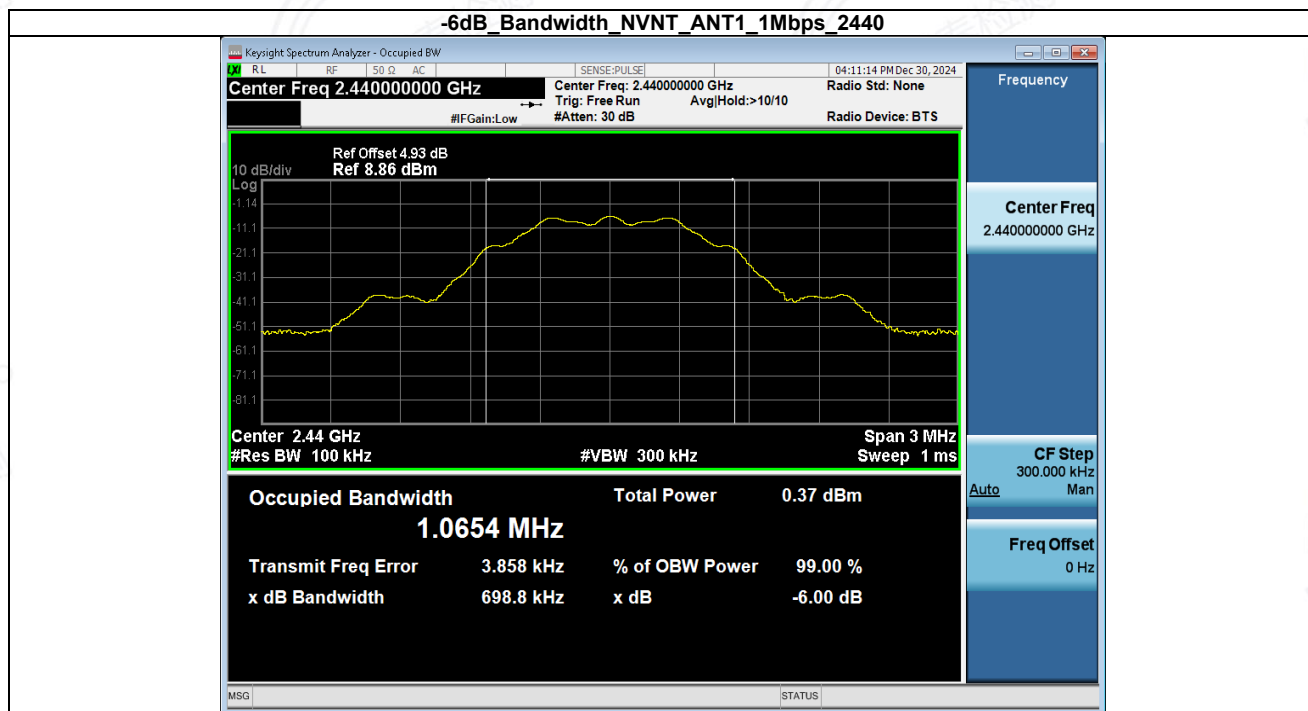
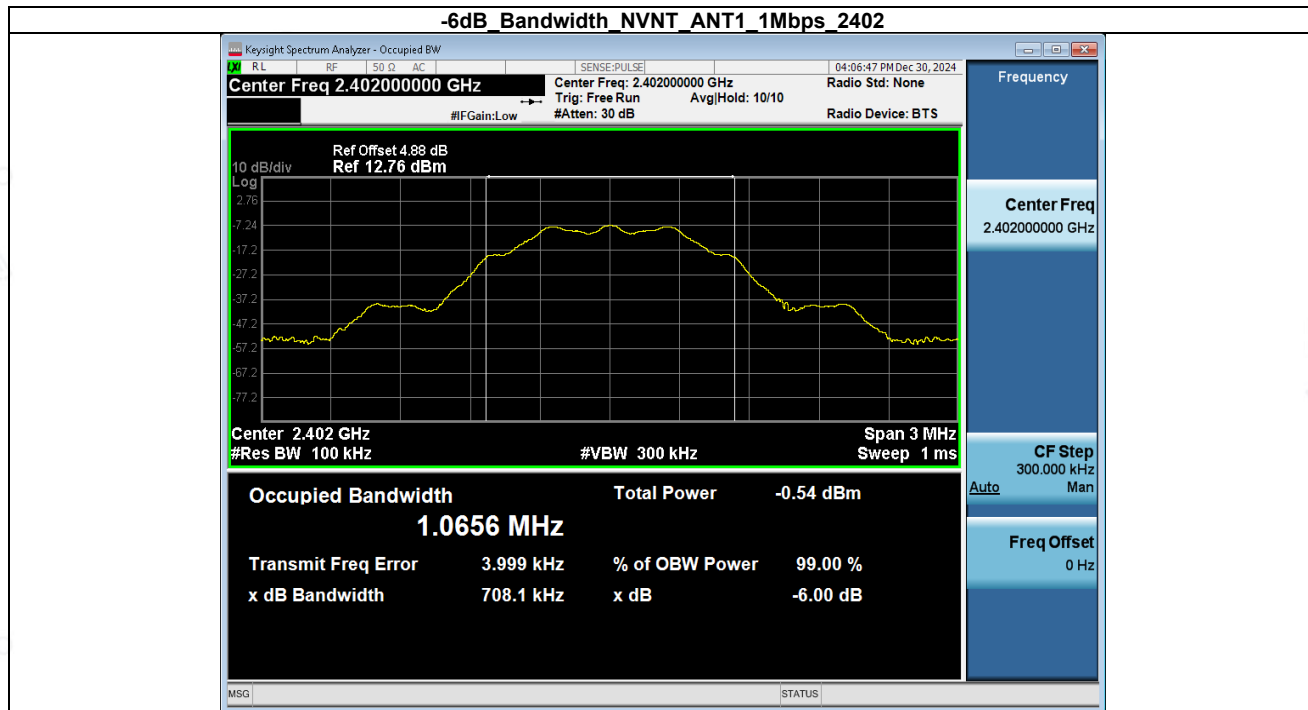
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1. -6dB Bandwidth

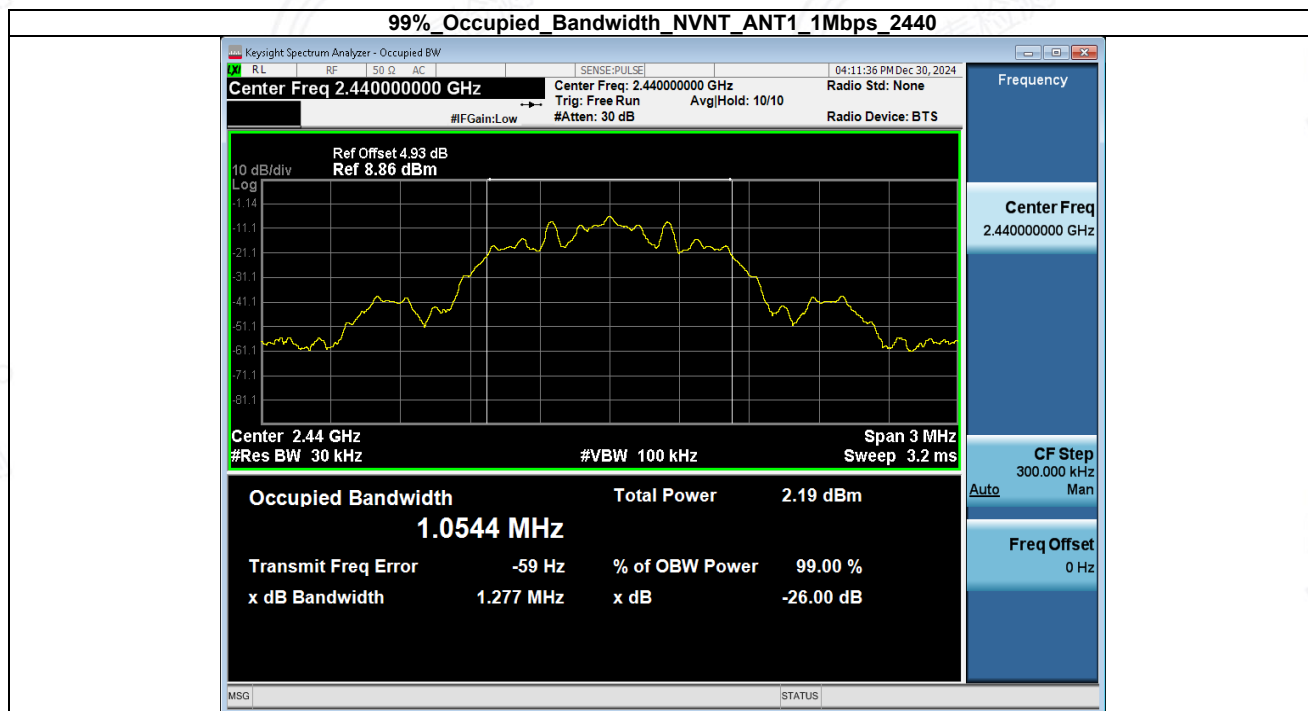
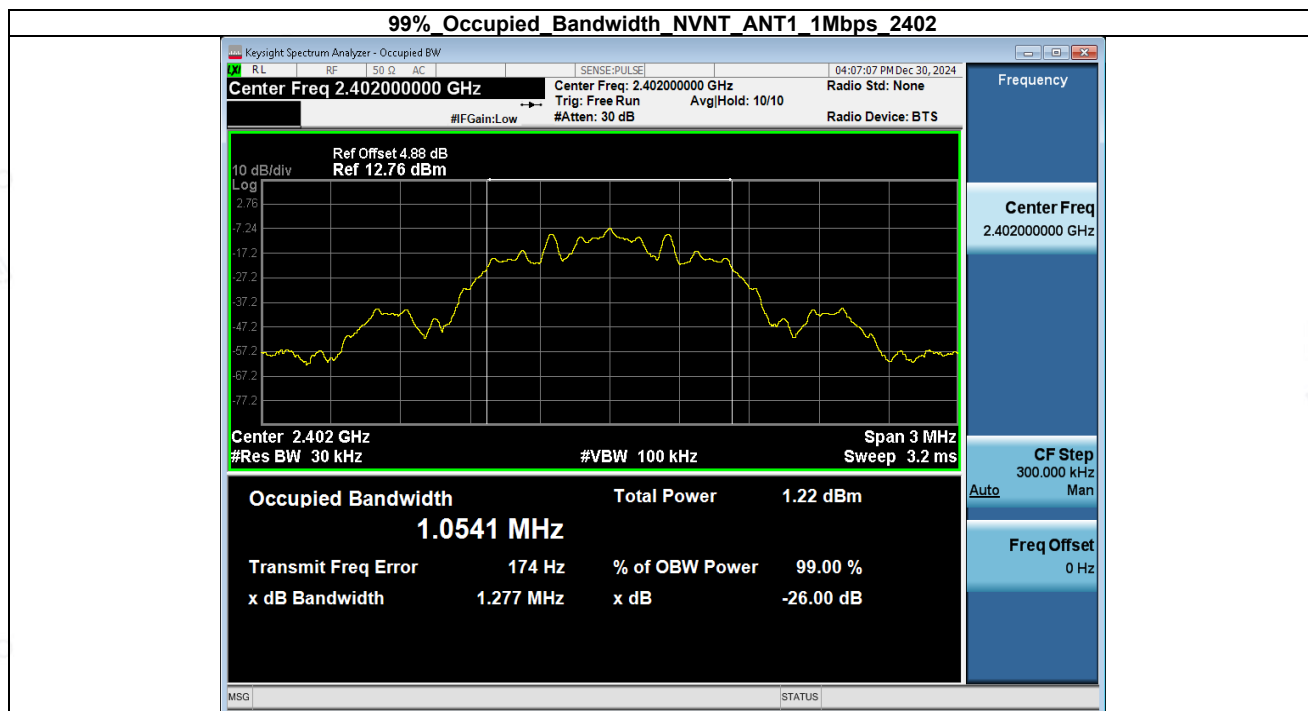
Condition	Antenna	Rate	Frequency (MHz)	-6dB BW(kHz)	limit(kHz)	Result
NVNT	ANT1	1Mbps	2402.00	708.07	500	Pass
NVNT	ANT1	1Mbps	2440.00	698.85	500	Pass
NVNT	ANT1	1Mbps	2480.00	696.90	500	Pass





2. 99% Occupied Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	1Mbps	2402.00	1.054
NVNT	ANT1	1Mbps	2440.00	1.054
NVNT	ANT1	1Mbps	2480.00	1.058

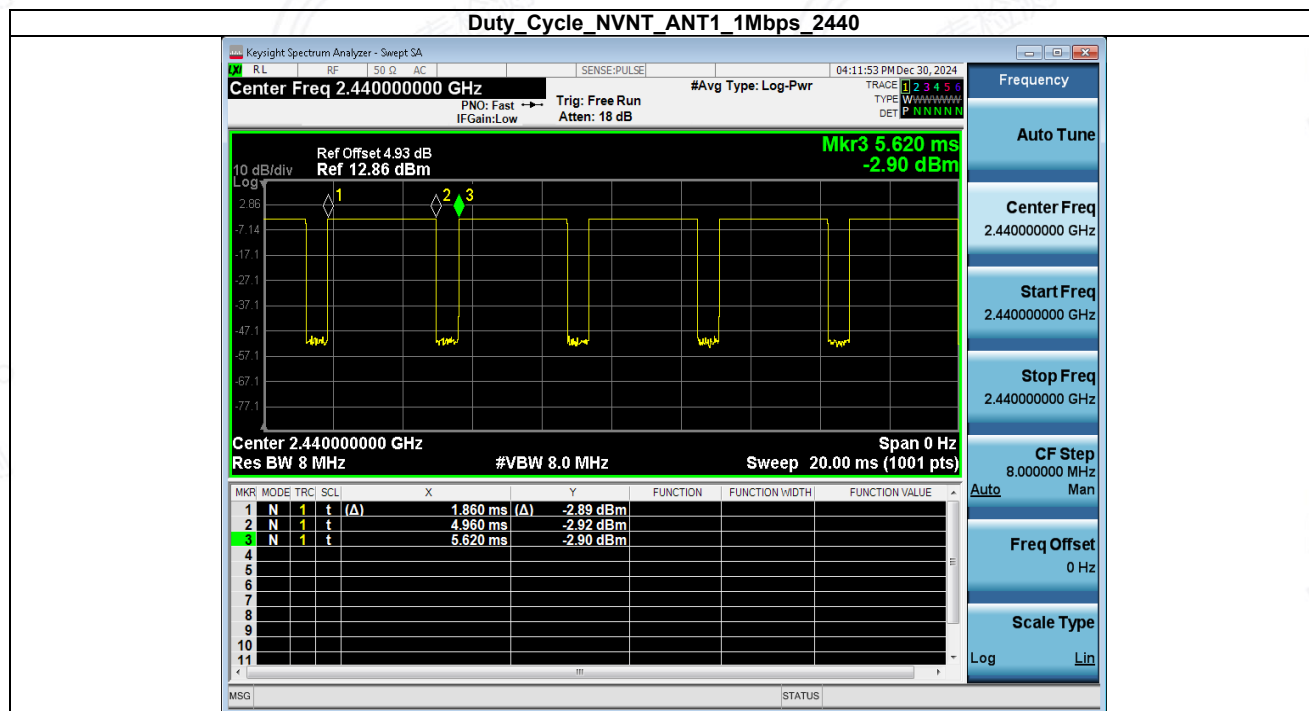


99% Occupied Bandwidth_NVNT_ANT1_1Mbps_2480

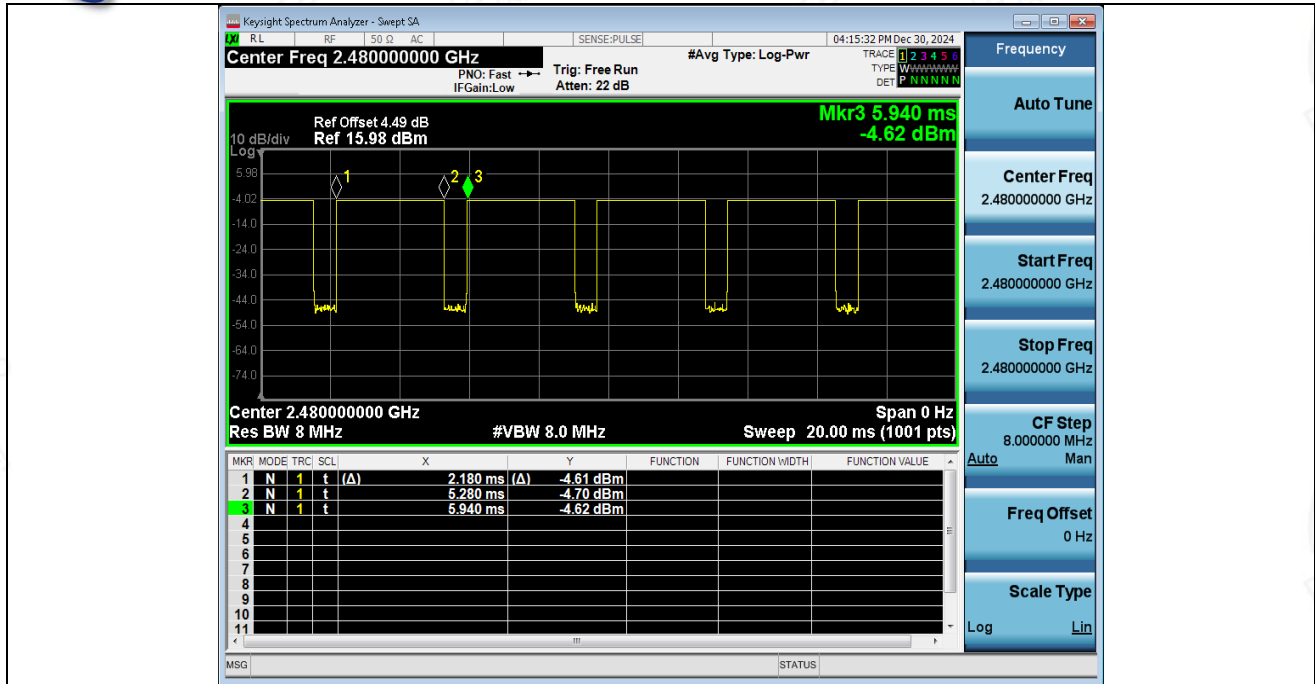




Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1Mbps	2402.00	82.98	0.81
NVNT	ANT1	1Mbps	2440.00	82.98	0.81
NVNT	ANT1	1Mbps	2480.00	82.98	0.81



Duty Cycle	NVNT	ANT1	1Mbps	2480
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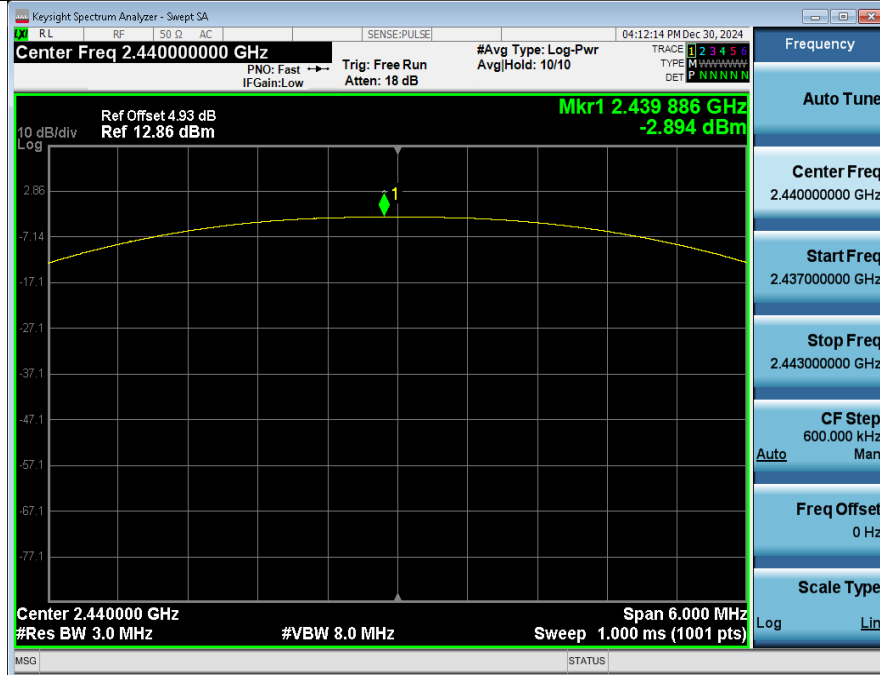
4. Peak Output Power

Condition	Antenna	Rate	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1Mbps	2402.00	-3.78	0.42	1000	Pass
NVNT	ANT1	1Mbps	2440.00	-2.89	0.51	1000	Pass
NVNT	ANT1	1Mbps	2480.00	-4.27	0.37	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	-10.10	8	Pass
NVNT	ANT1	1Mbps	2440.00	-9.15	8	Pass
NVNT	ANT1	1Mbps	2480.00	-10.81	8	Pass

Power Spectral Density_NVNT_ANT1_1Mbps_2402



Power Spectral Density_NVNT_ANT1_1Mbps_2440



Power Spectral Density_NVNT_ANT1_1Mbps_2480





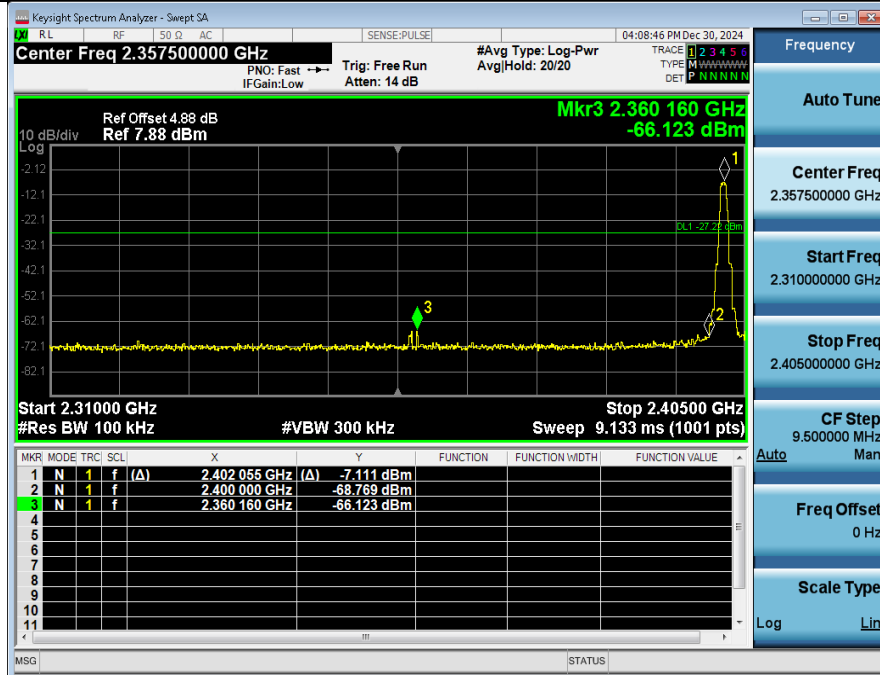
6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	1Mbps	2402.00	2360.160	-7.223	-66.123	-27.223	Pass
NVNT	ANT1	1Mbps	2480.00	2487.025	-8.075	-57.893	-28.075	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



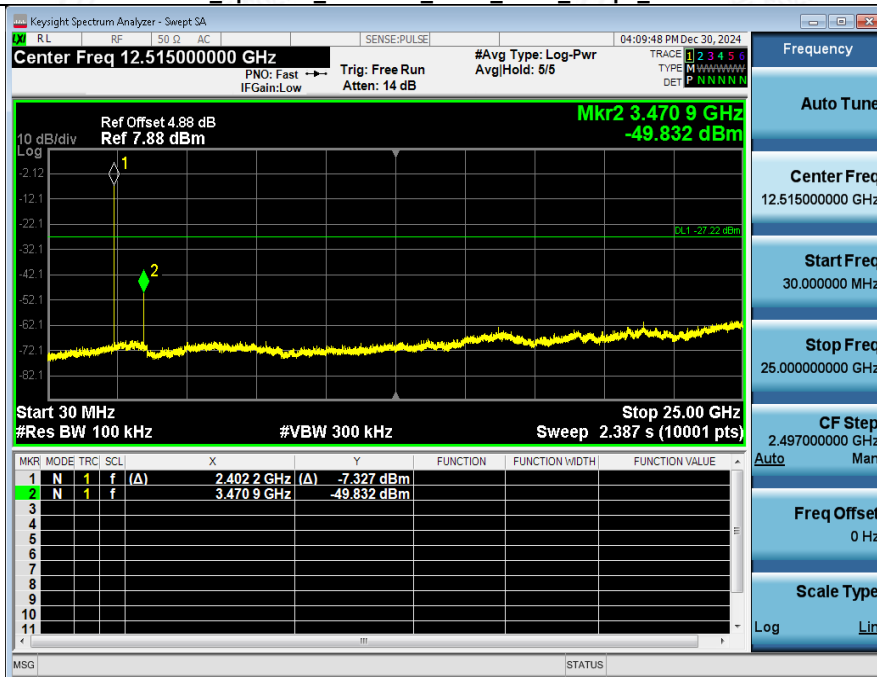
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	1Mbps	2402.00	-7.223	-49.832	-27.223	Pass
NVNT	ANT1	1Mbps	2440.00	-6.300	-64.328	-26.300	Pass
NVNT	ANT1	1Mbps	2480.00	-8.075	-60.190	-28.075	Pass

1 Reference_Level_NVNT_ANT1_1Mbps_2402



2 Spurious_Emission_NVNT_ANT1_1Mbps_2402

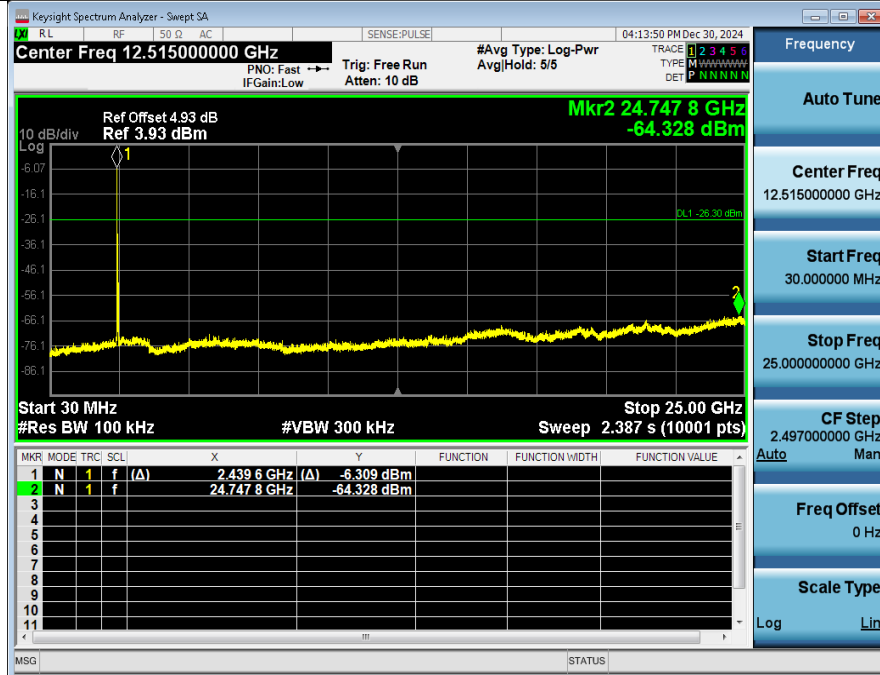


1 Reference_Level_NVNT_ANT1_1Mbps_2440





2_Spurious_Emission_NVNT_ANT1_1Mbps_2440



1_Reference_Level_NVNT_ANT1_1Mbps_2480





2_Spurious_Emission_NVNT_ANT1_1Mbps_2480

