

Appendix

BLE Test Data

for BTEK240612005AE



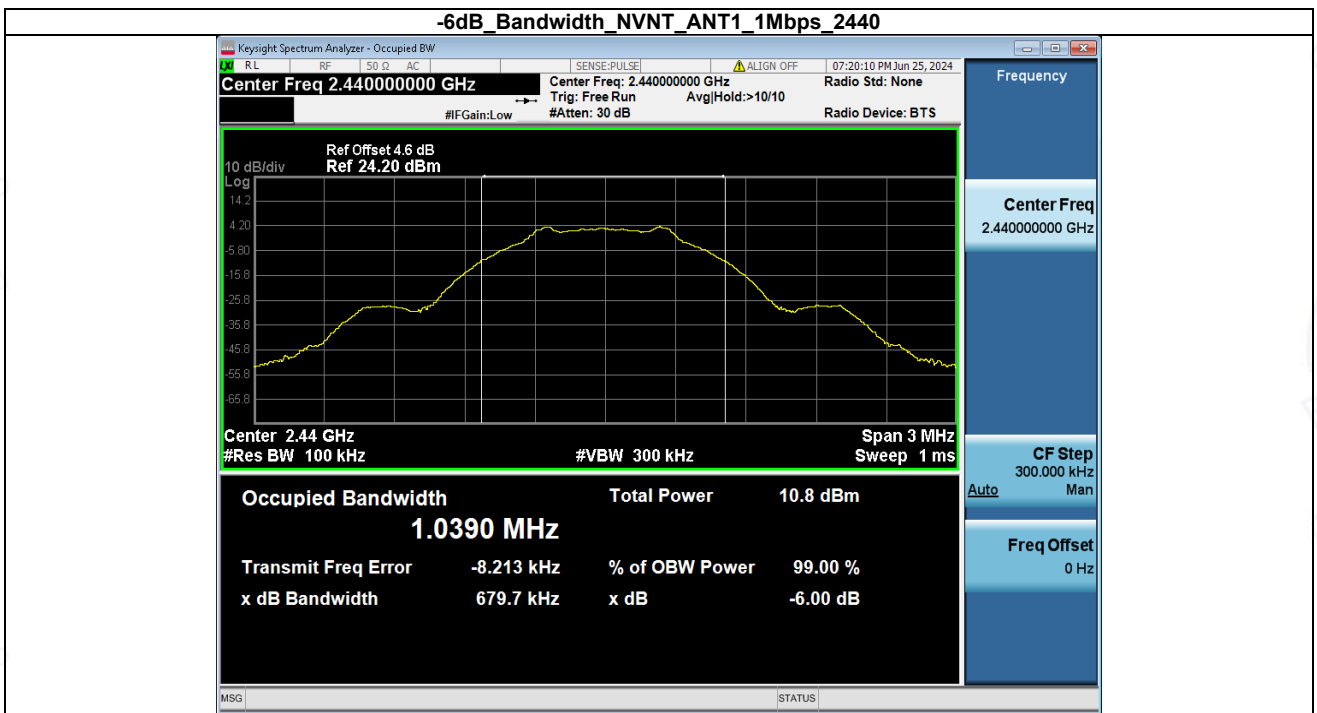
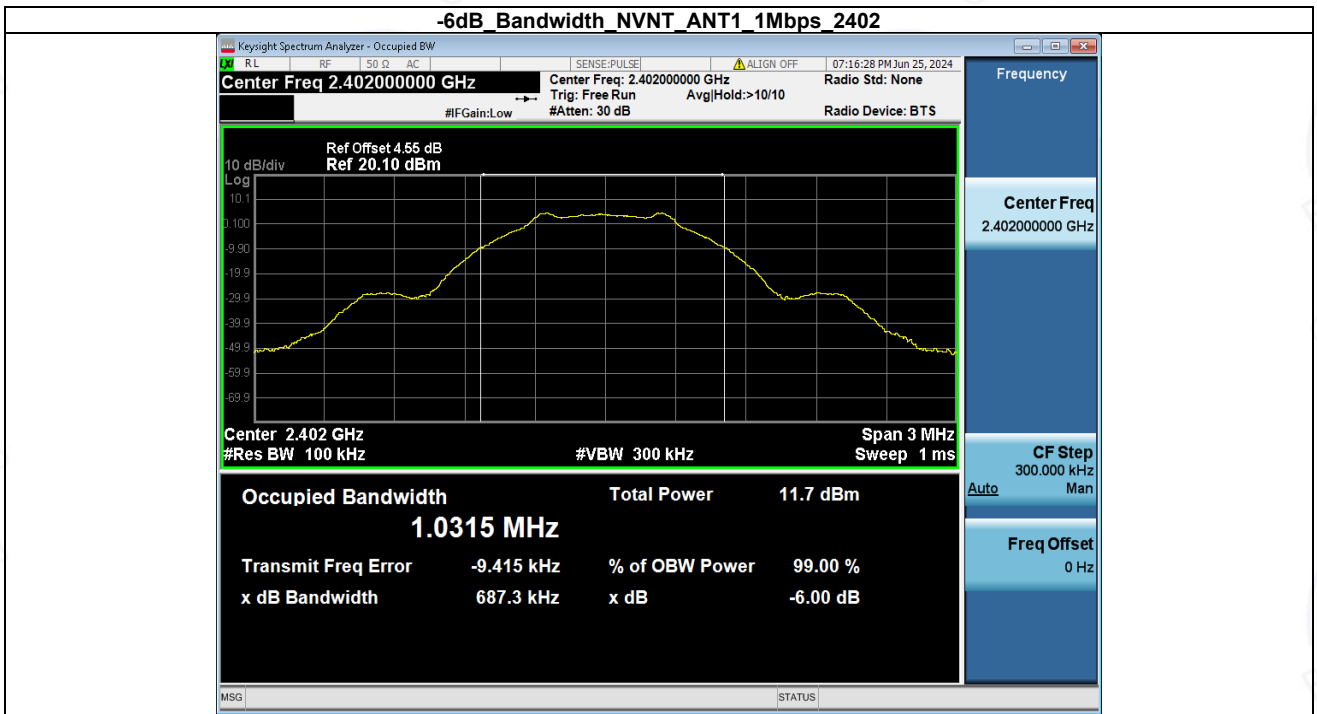
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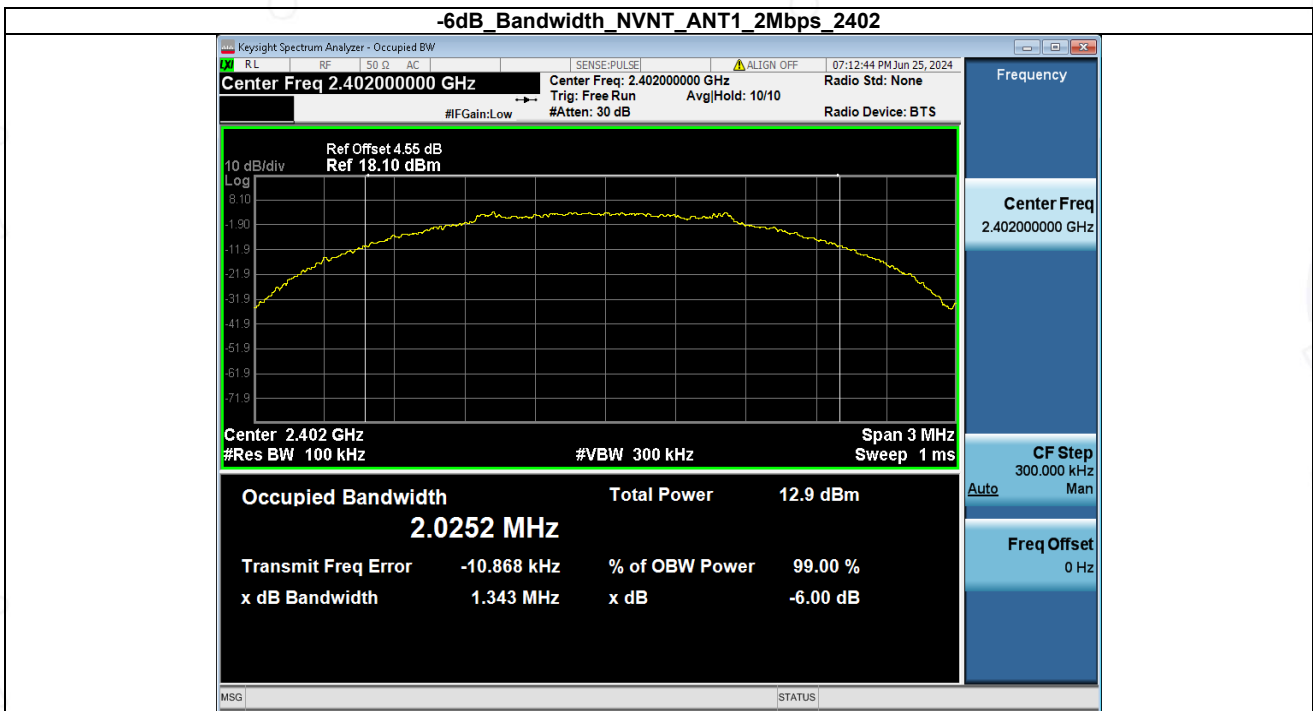
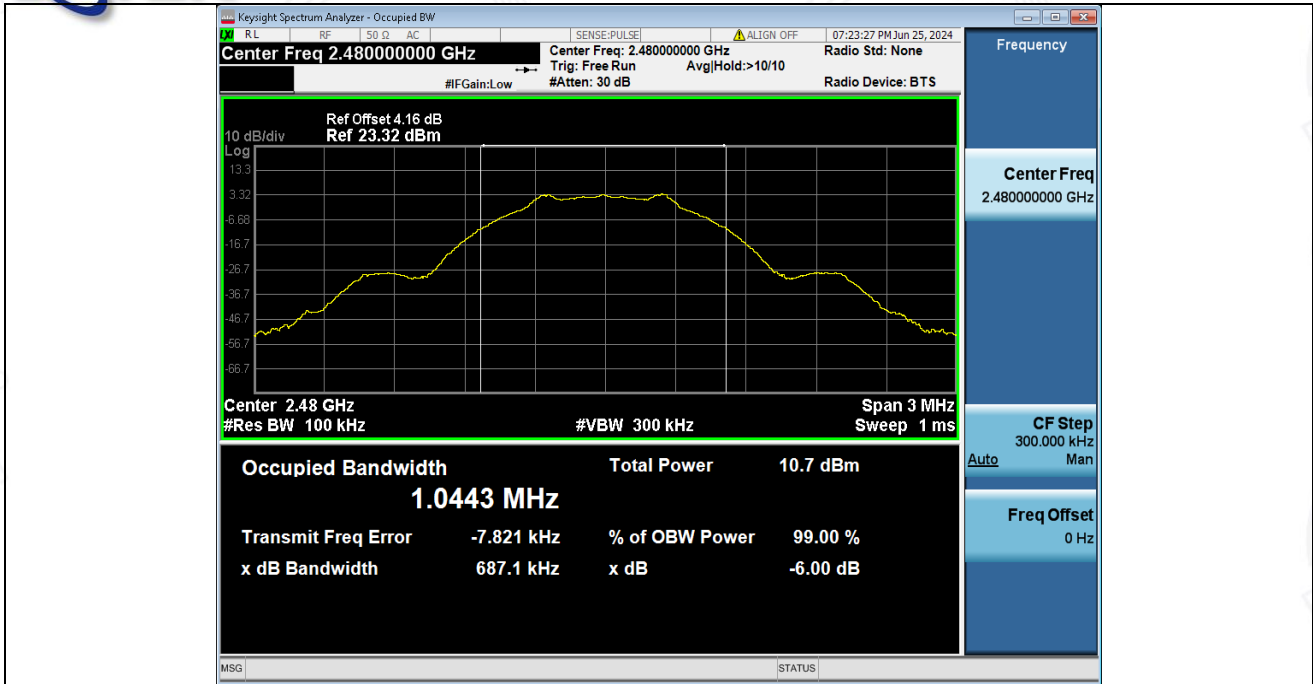
1. -6dB Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	-6dB BW(kHz)	limit(kHz)	Result
NVNT	ANT1	1Mbps	2402.00	687.32	500	Pass
NVNT	ANT1	1Mbps	2440.00	679.69	500	Pass
NVNT	ANT1	1Mbps	2480.00	687.08	500	Pass
NVNT	ANT1	2Mbps	2402.00	1342.66	500	Pass
NVNT	ANT1	2Mbps	2440.00	1386.89	500	Pass
NVNT	ANT1	2Mbps	2480.00	1340.40	500	Pass



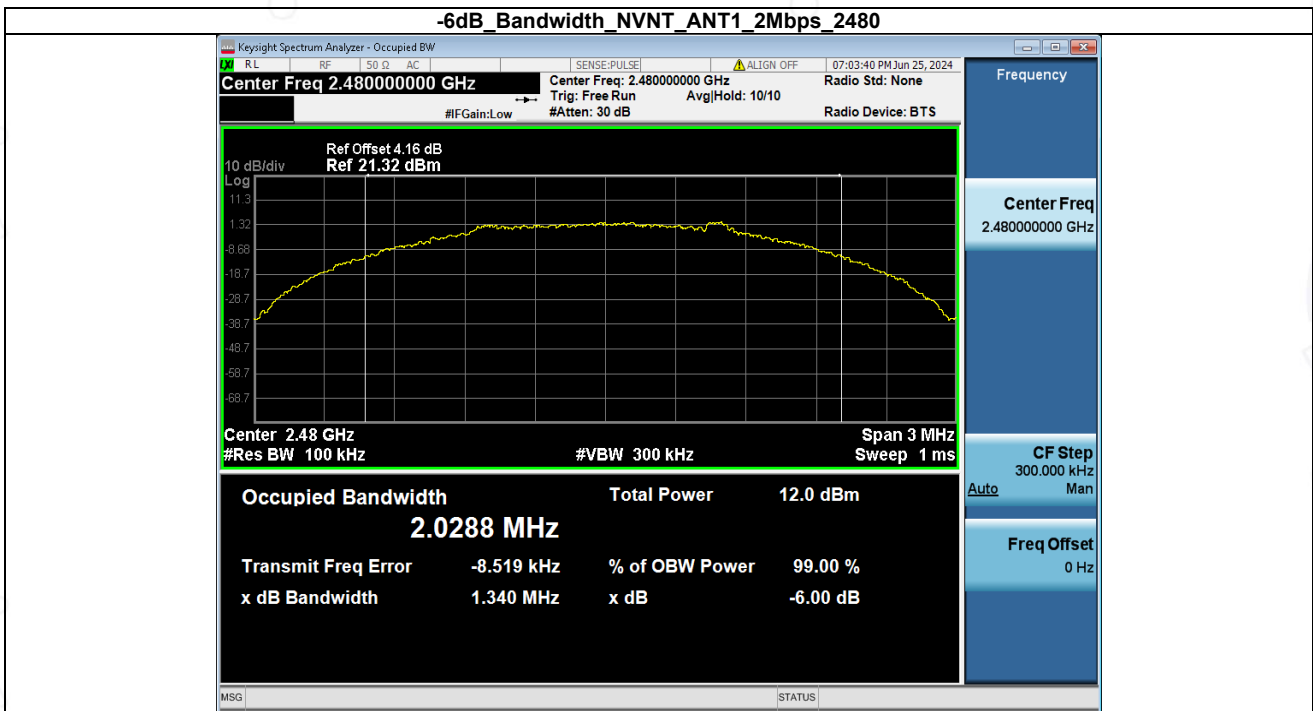
-6dB Bandwidth_NVNT_ANT1_1Mbps_2480





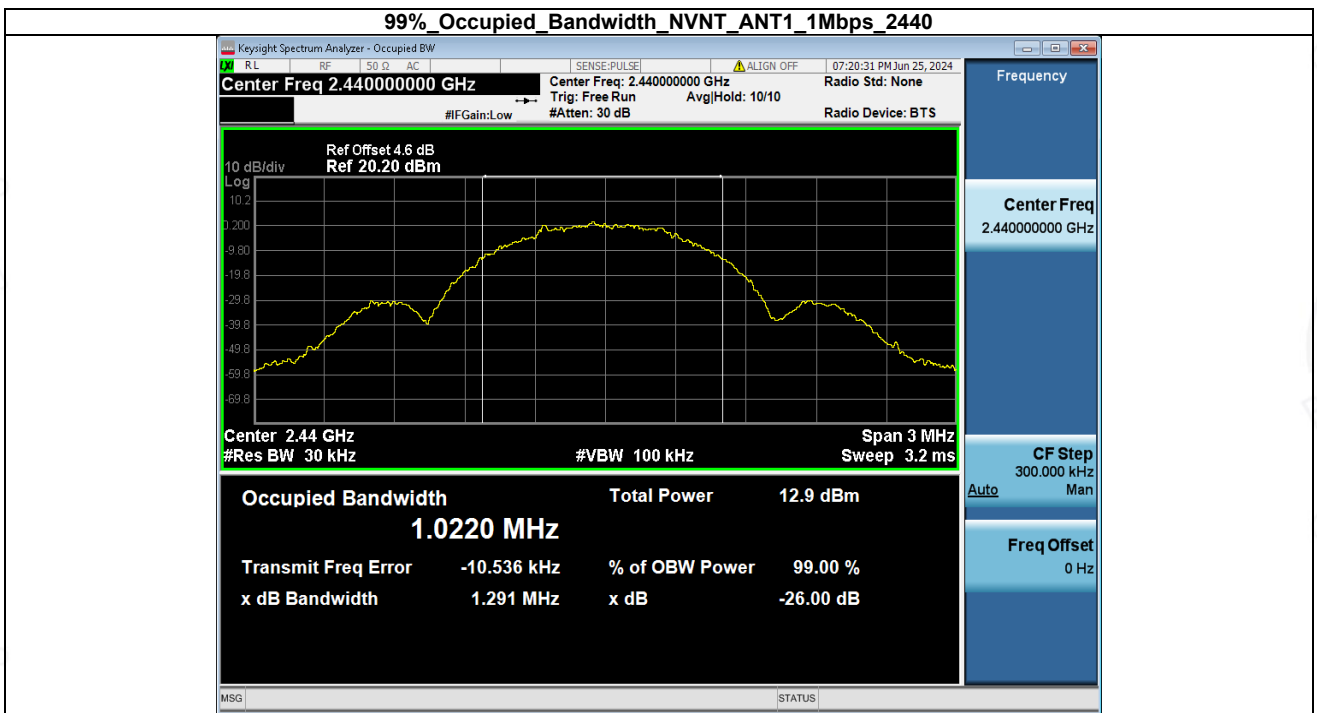
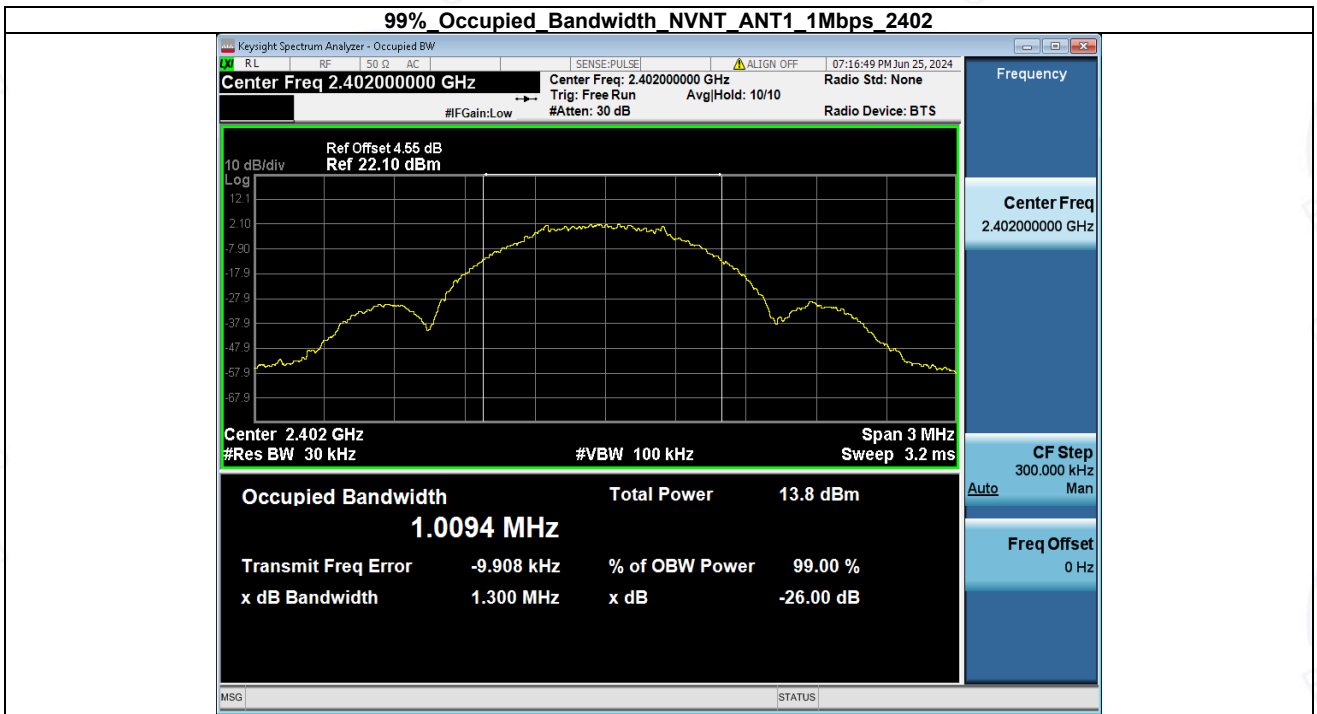
-6dB Bandwidth_NVNT_ANT1_2Mbps_2440





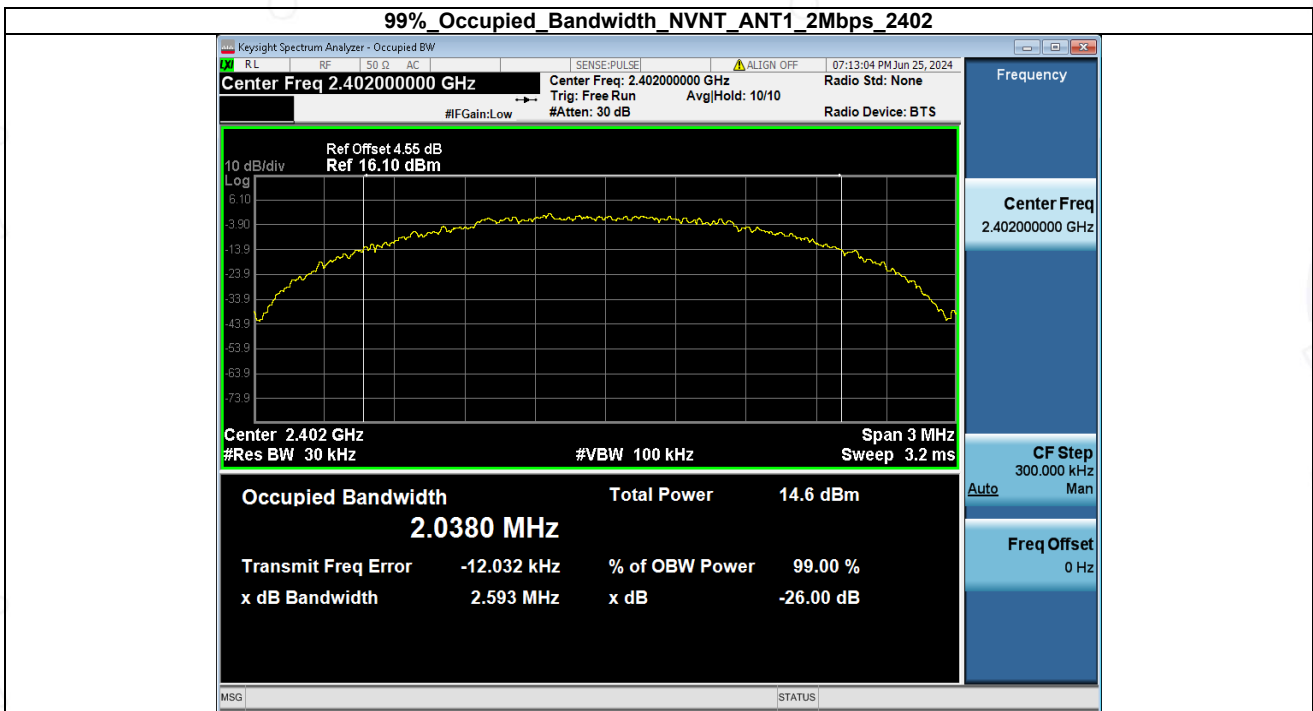
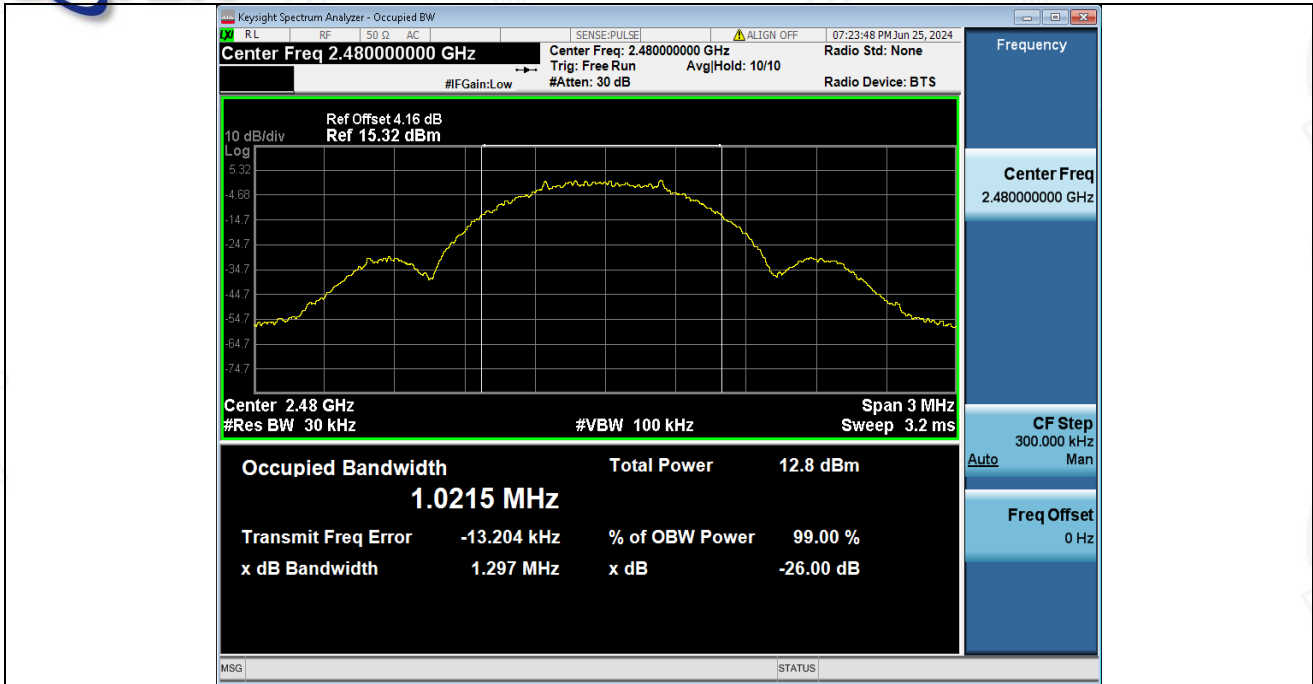
2. 99% Occupied Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	1Mbps	2402.00	1.009
NVNT	ANT1	1Mbps	2440.00	1.022
NVNT	ANT1	1Mbps	2480.00	1.022
NVNT	ANT1	2Mbps	2402.00	2.038
NVNT	ANT1	2Mbps	2440.00	2.042
NVNT	ANT1	2Mbps	2480.00	2.028



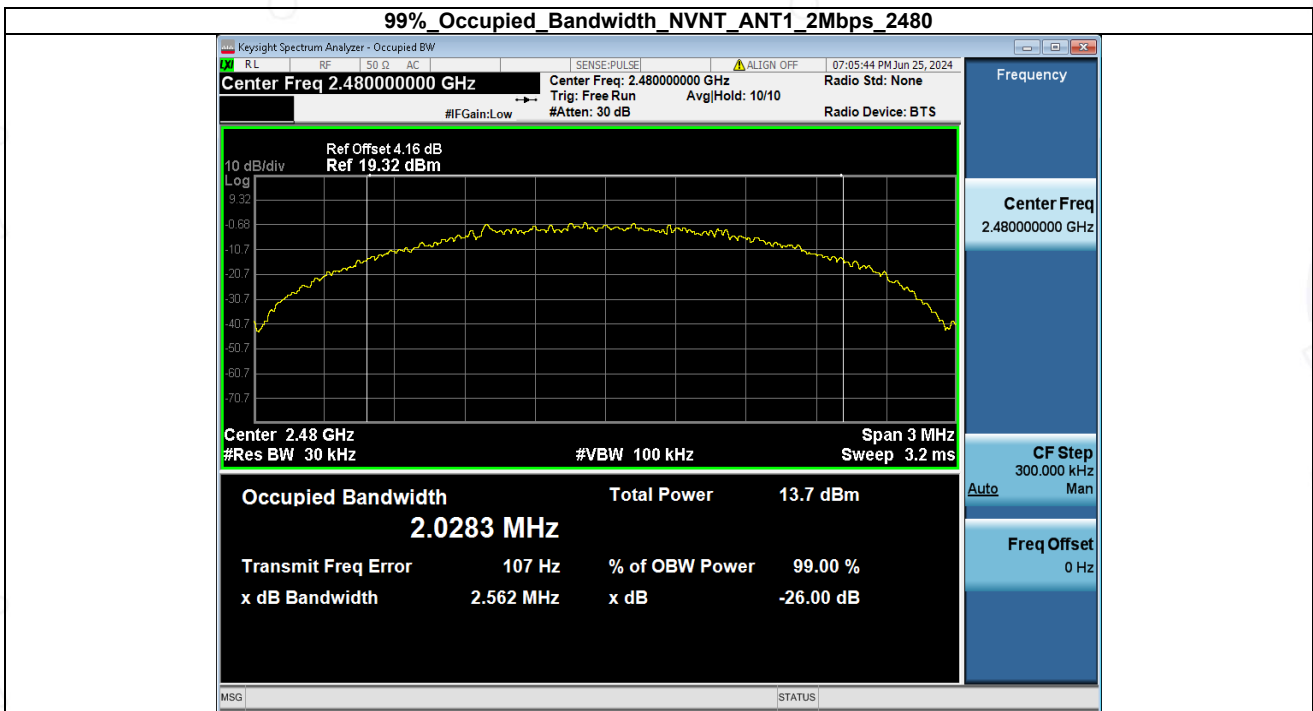
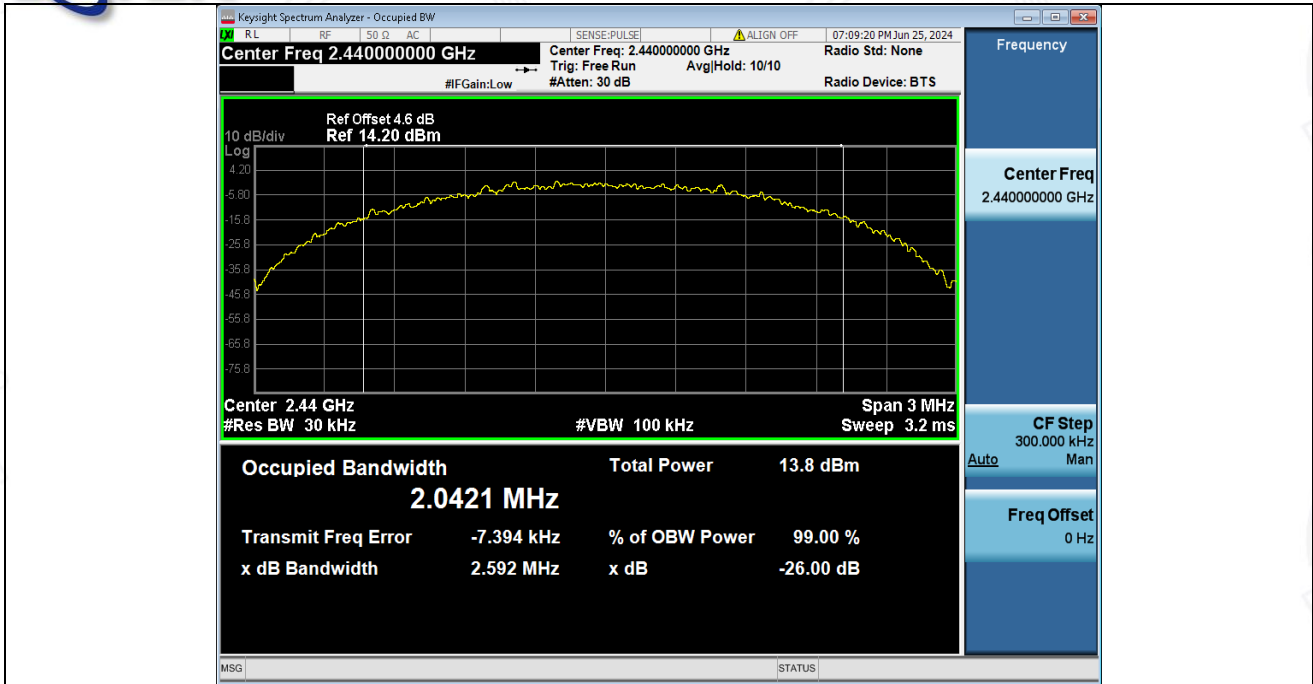
99% Occupied Bandwidth NVNT ANT1 1Mbps 2480





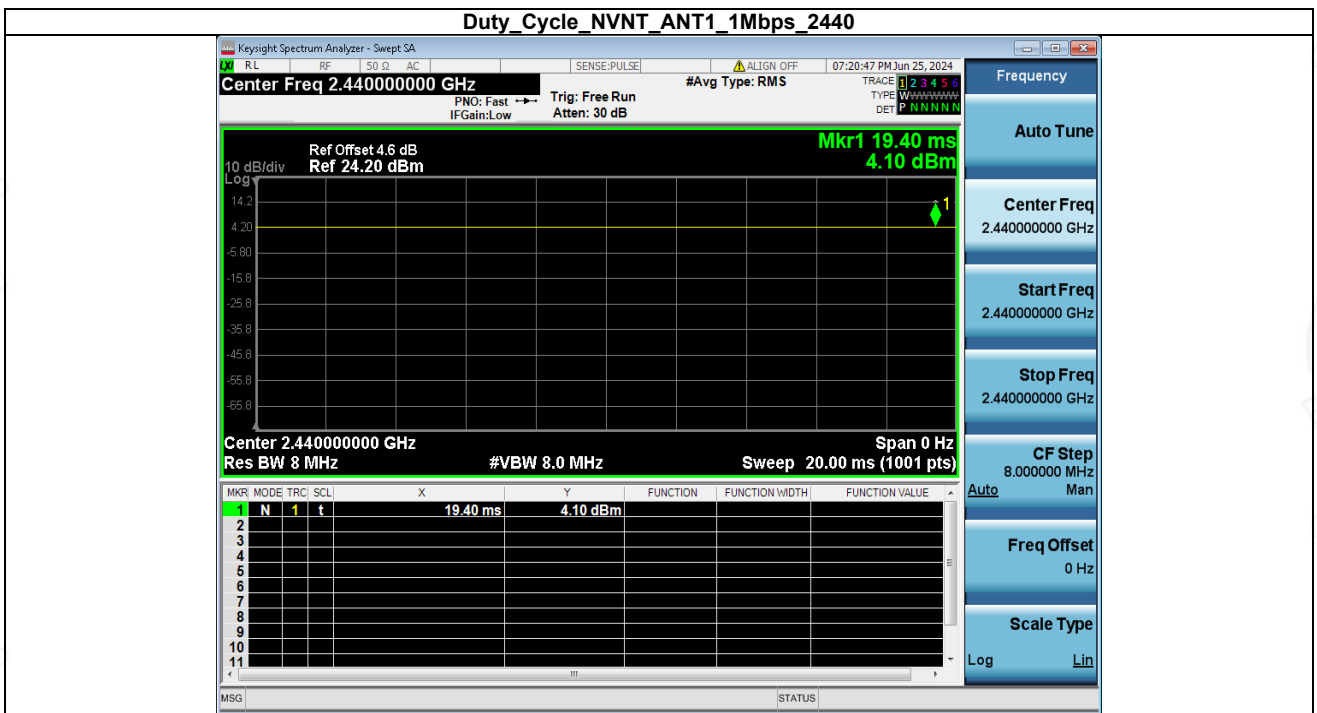
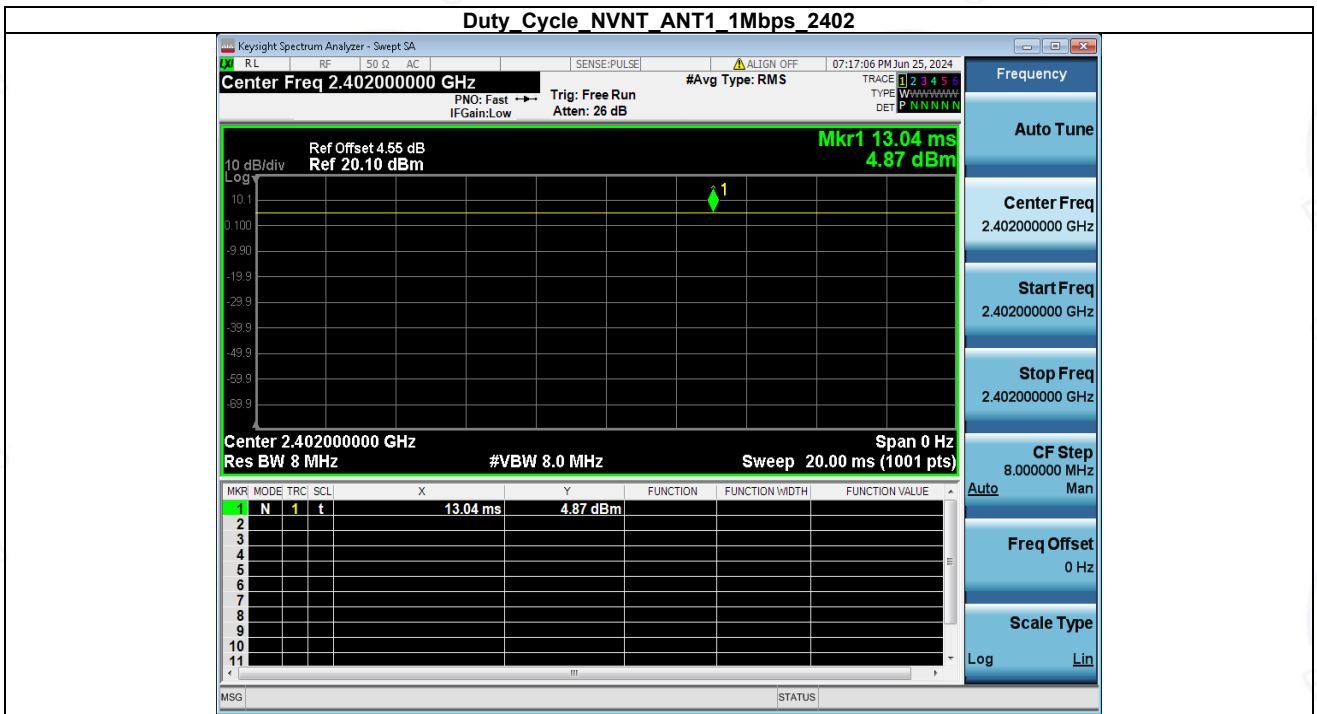
99% Occupied Bandwidth NVNT_ANT1_2Mbps_2440





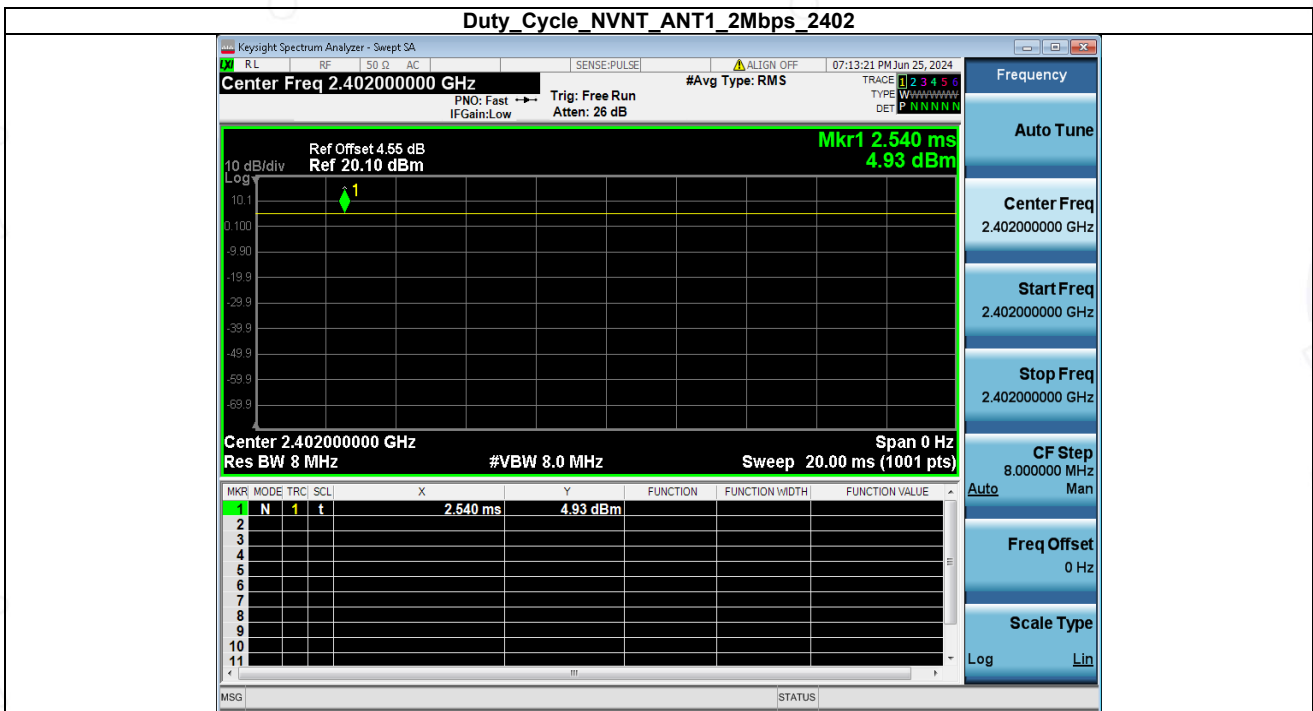
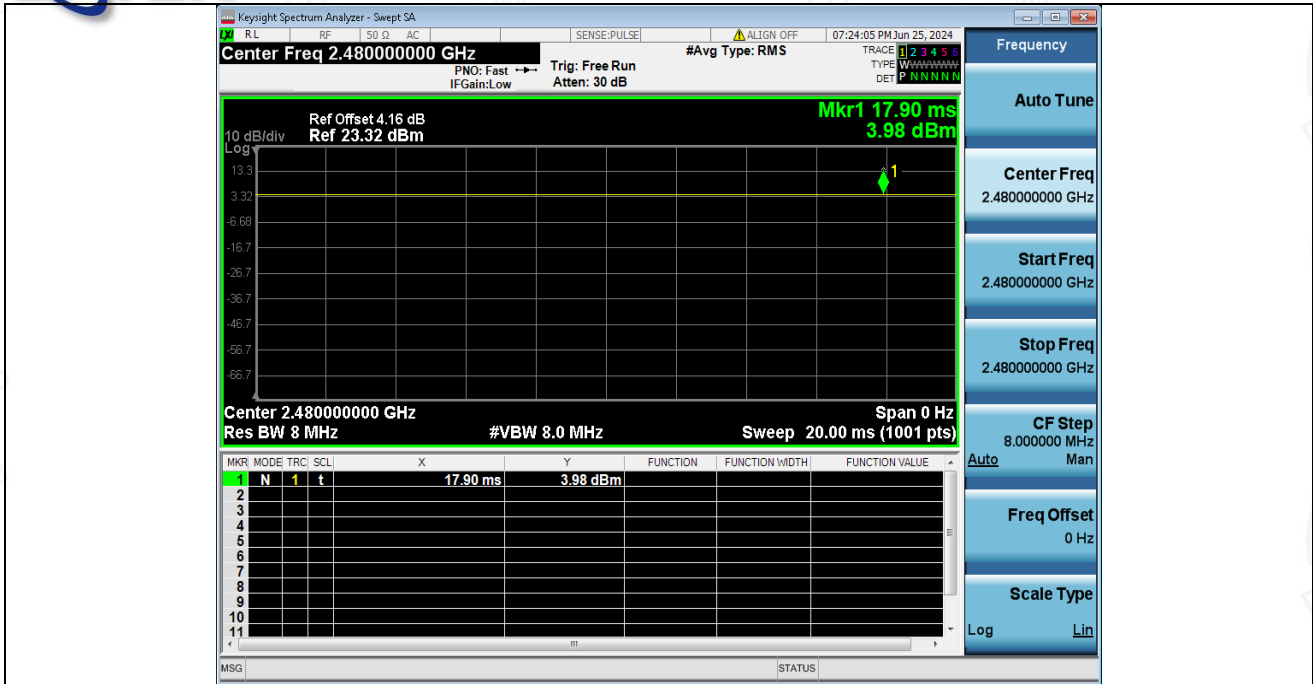
3. Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1Mbps	2402.00	100	0.00
NVNT	ANT1	1Mbps	2440.00	100	0.00
NVNT	ANT1	1Mbps	2480.00	100	0.00
NVNT	ANT1	2Mbps	2402.00	100	0.00
NVNT	ANT1	2Mbps	2440.00	100	0.00
NVNT	ANT1	2Mbps	2480.00	100	0.00



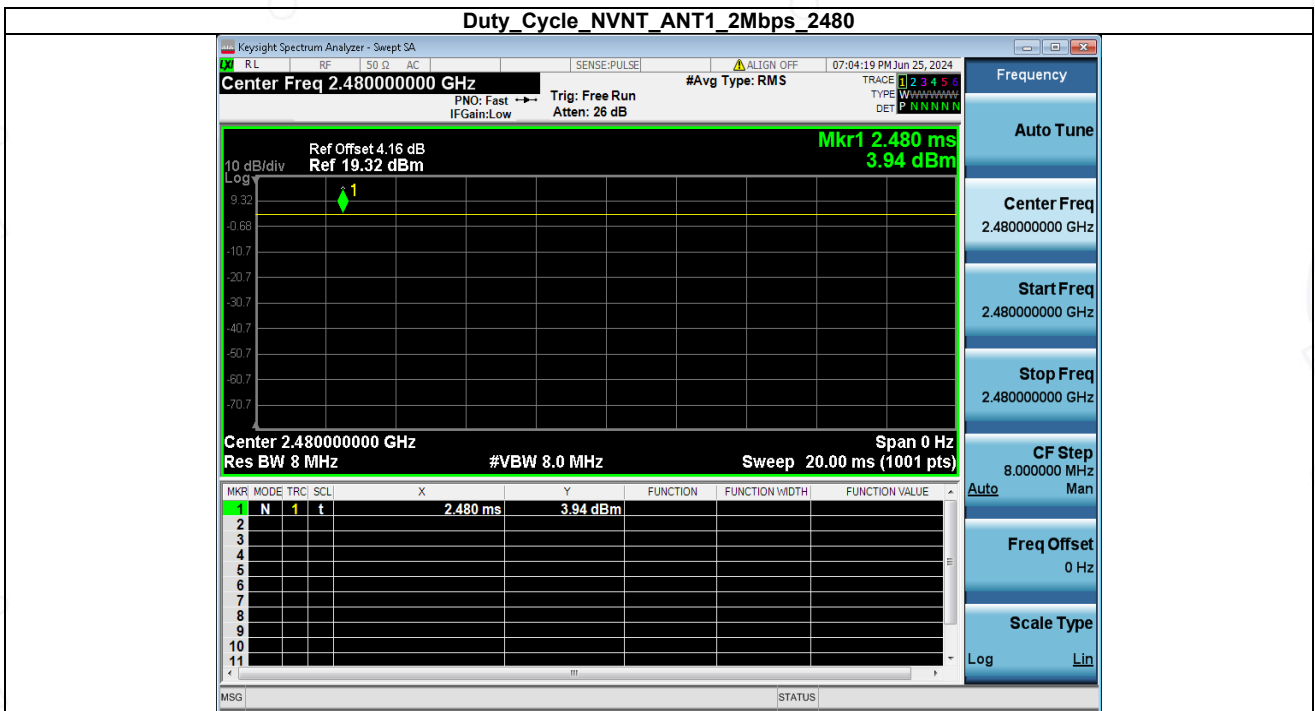
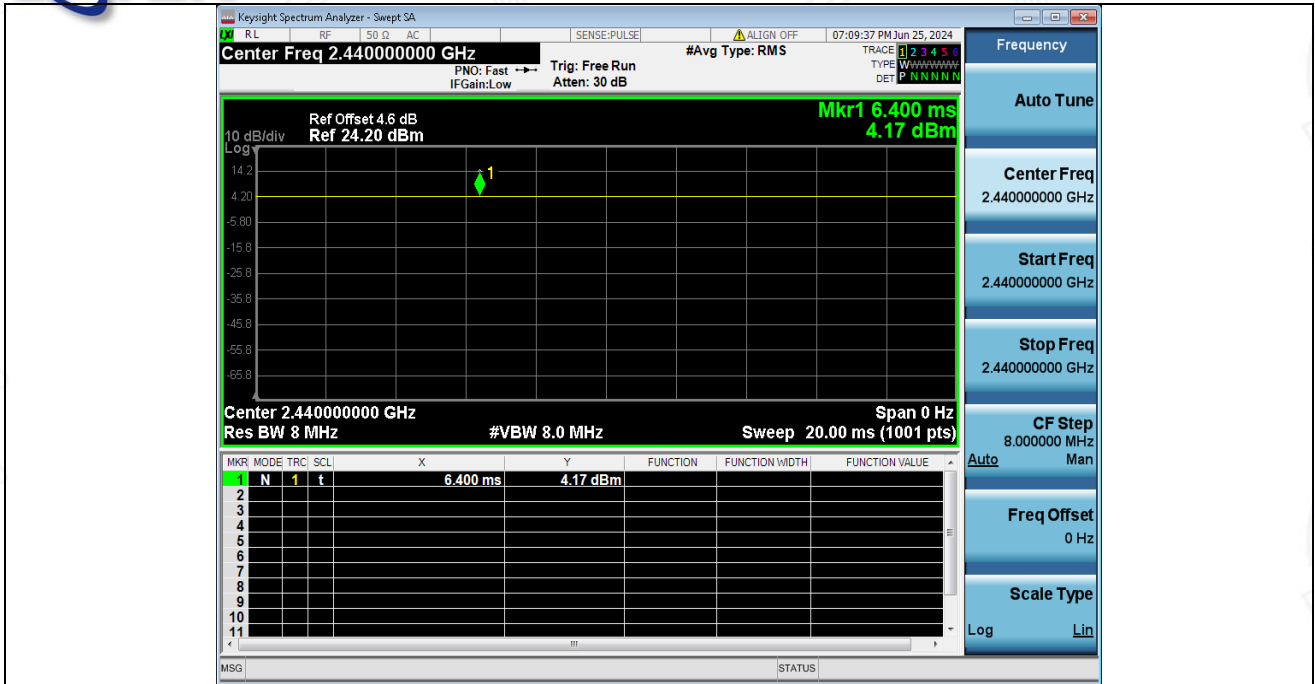
Duty Cycle_NVNT_ANT1_1Mbps_2480





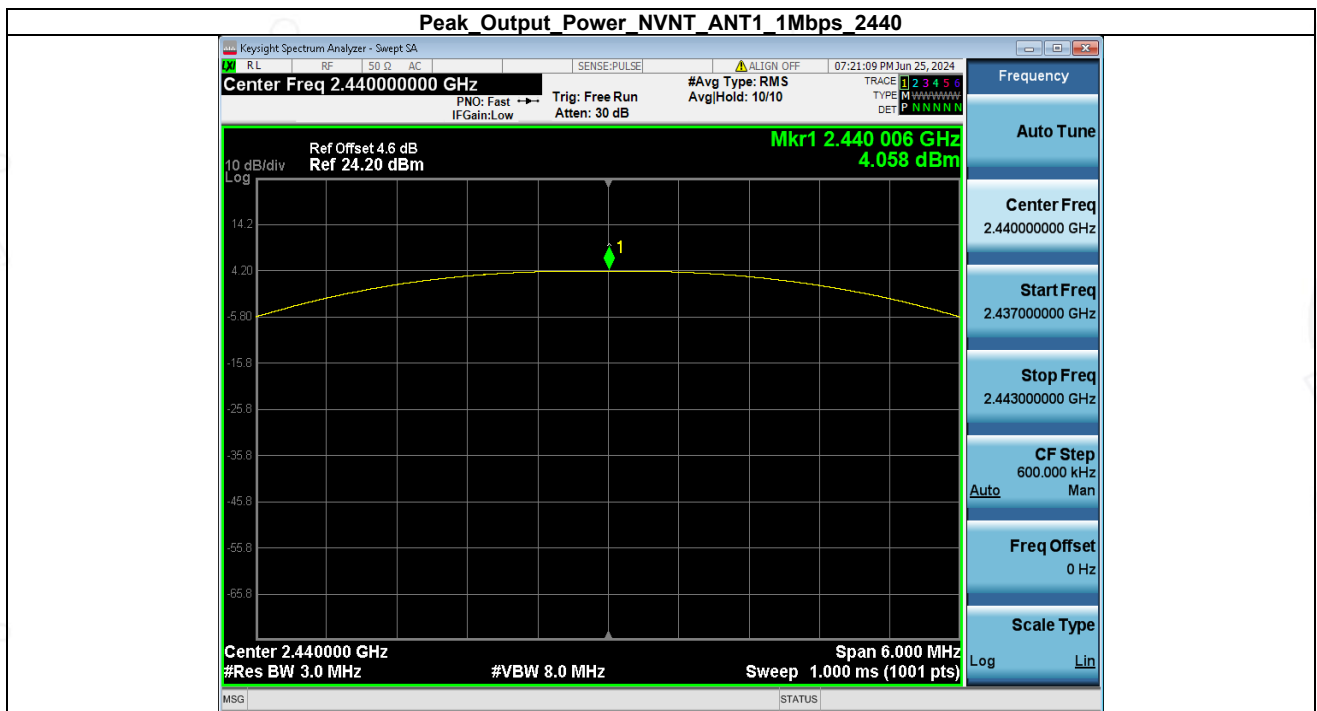
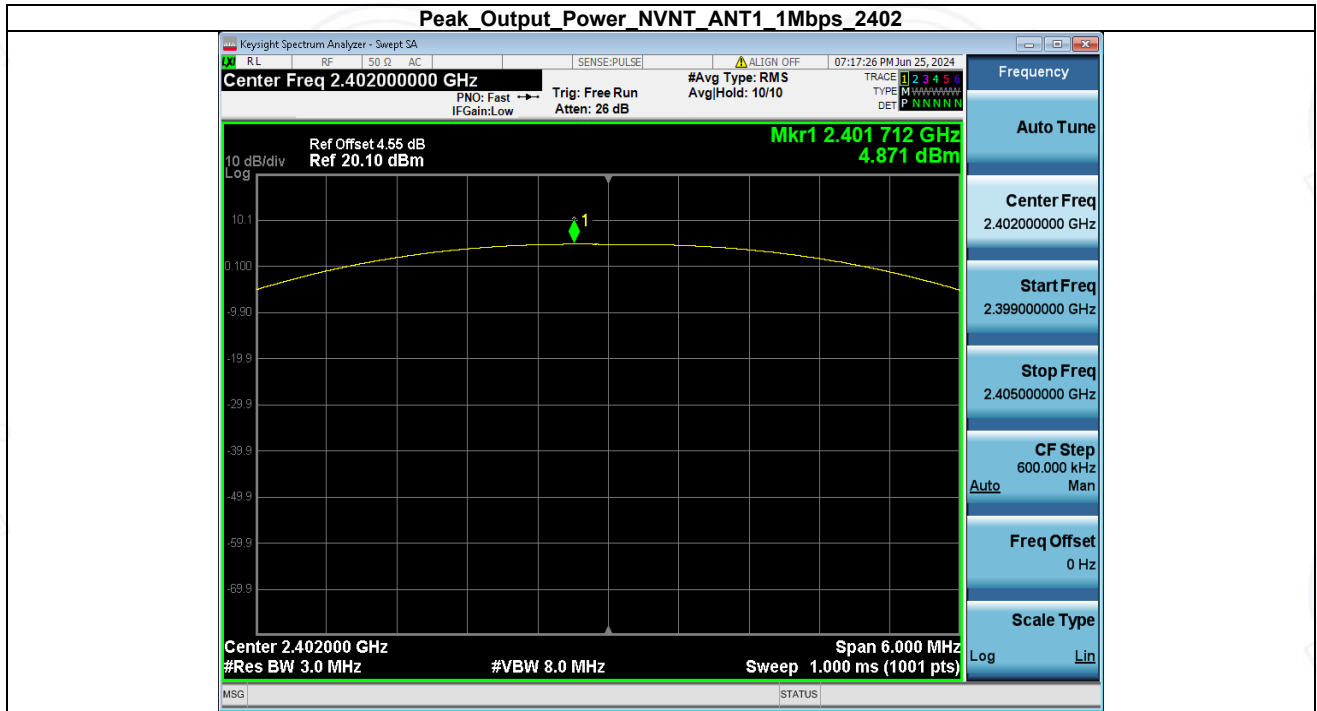
Duty Cycle_NVNT_ANT1_2Mbps_2440





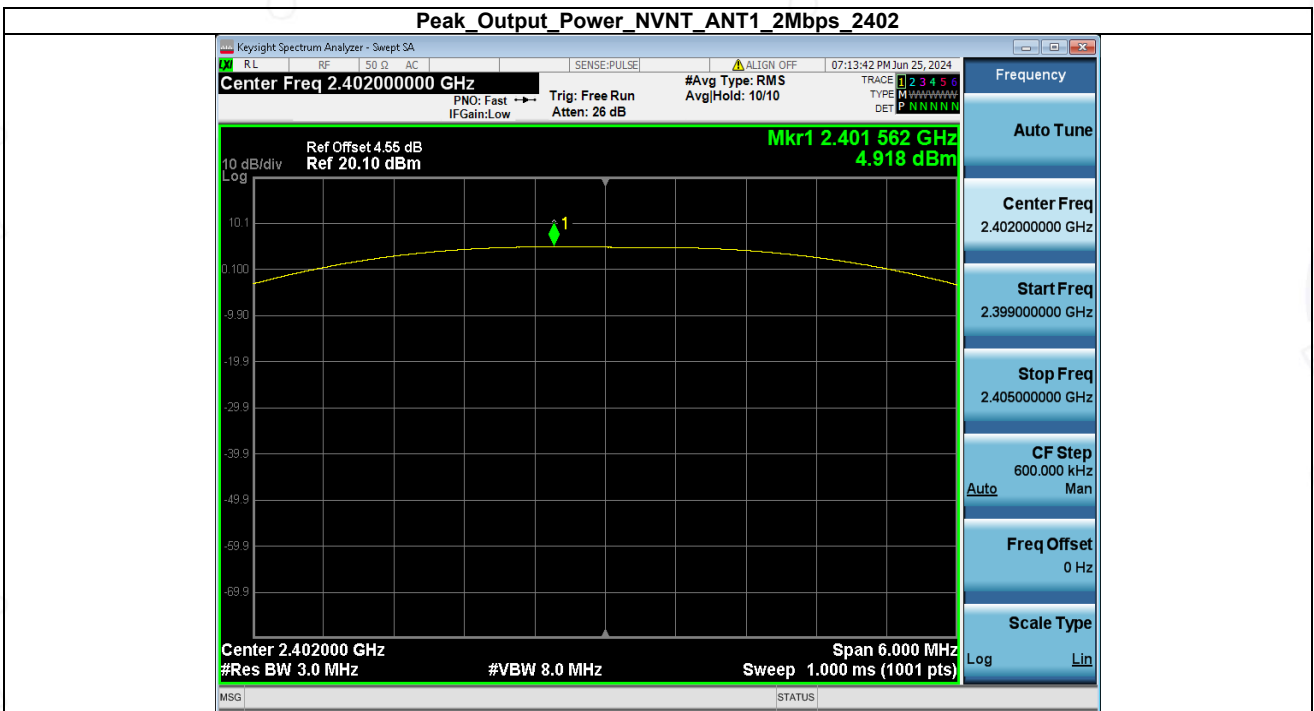
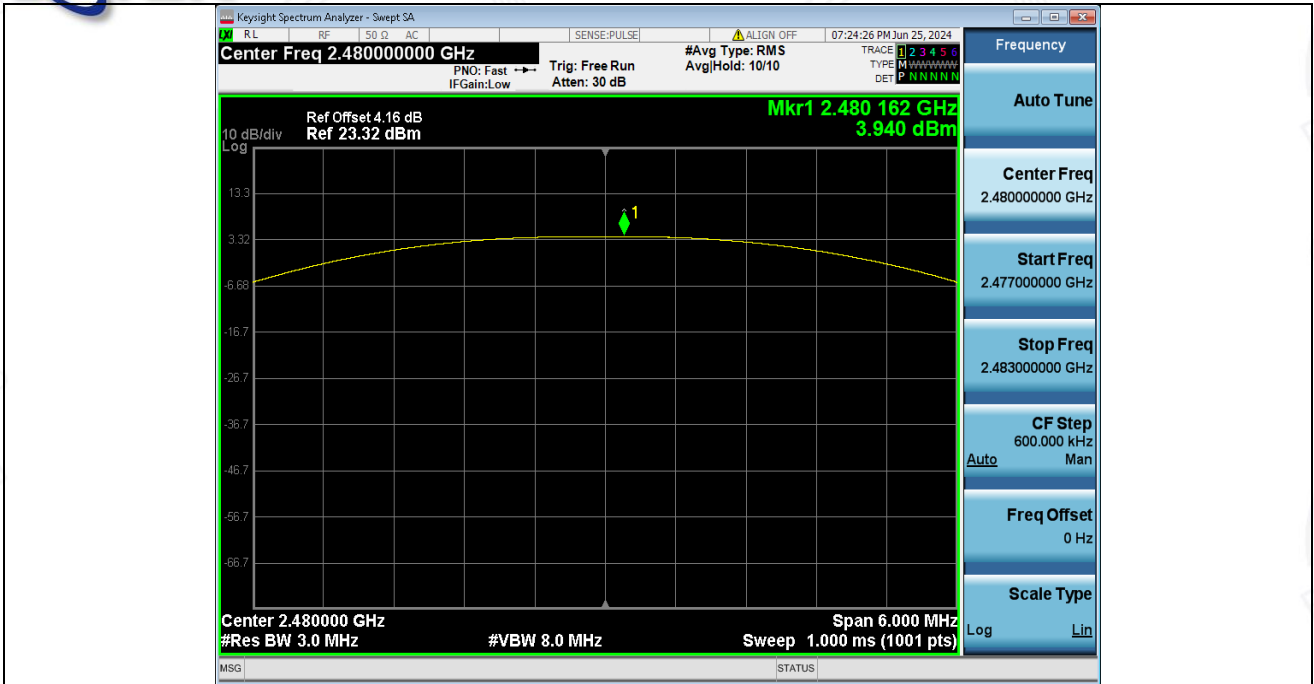
4. Peak Output Power

Condition	Antenna	Rate	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1Mbps	2402.00	4.87	3.07	1000	Pass
NVNT	ANT1	1Mbps	2440.00	4.06	2.55	1000	Pass
NVNT	ANT1	1Mbps	2480.00	3.94	2.48	1000	Pass
NVNT	ANT1	2Mbps	2402.00	4.92	3.10	1000	Pass
NVNT	ANT1	2Mbps	2440.00	4.09	2.57	1000	Pass
NVNT	ANT1	2Mbps	2480.00	4.00	2.51	1000	Pass



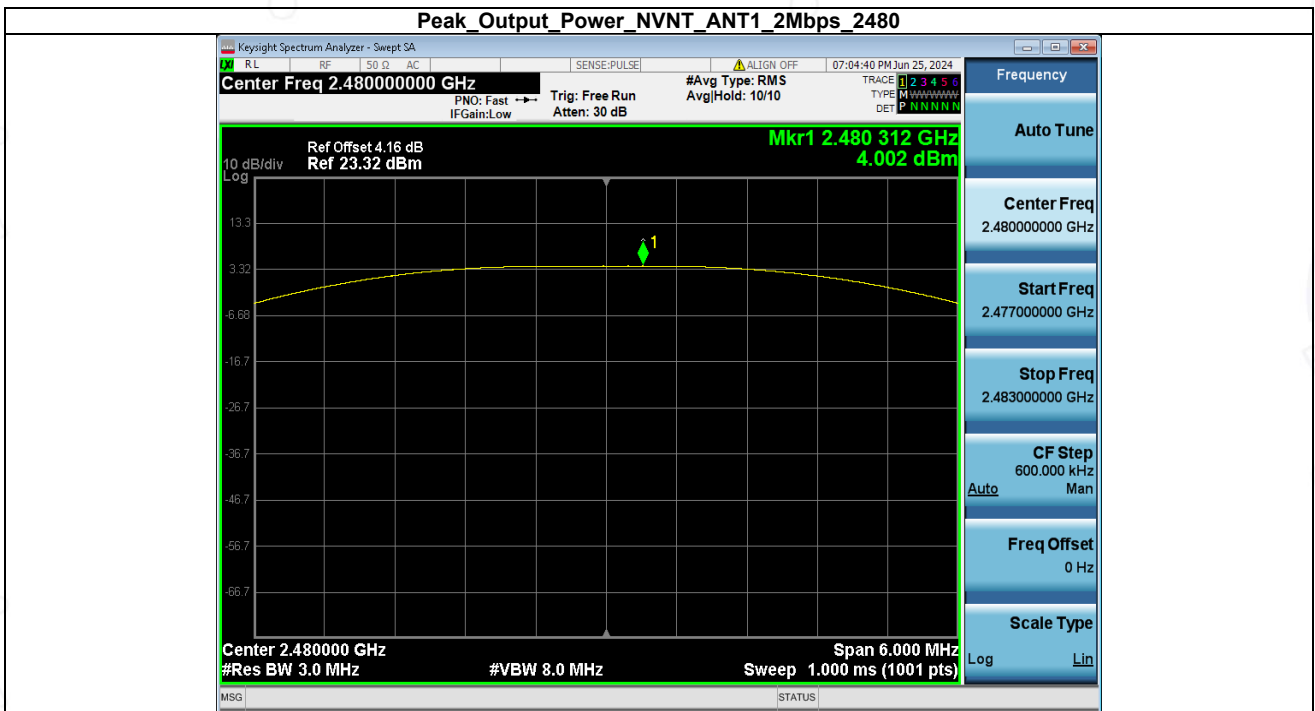
Peak Output Power_NVNT_ANT1_1Mbps_2480





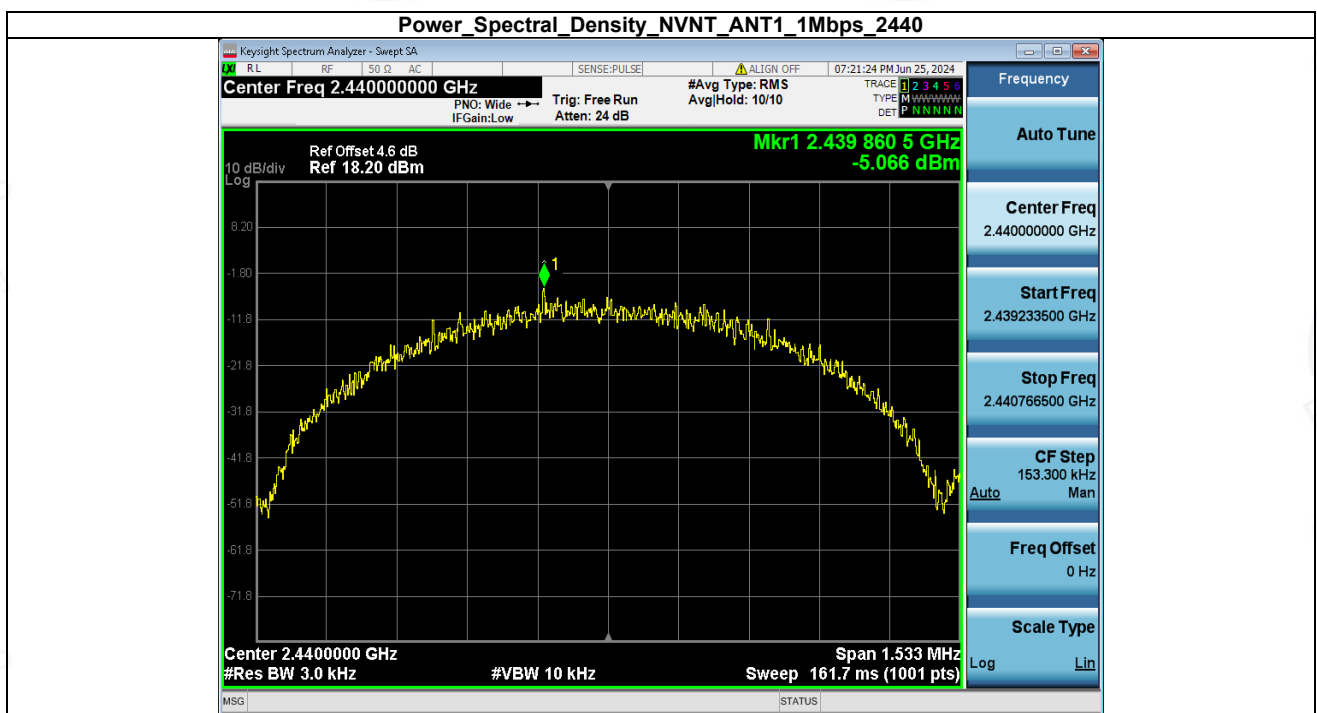
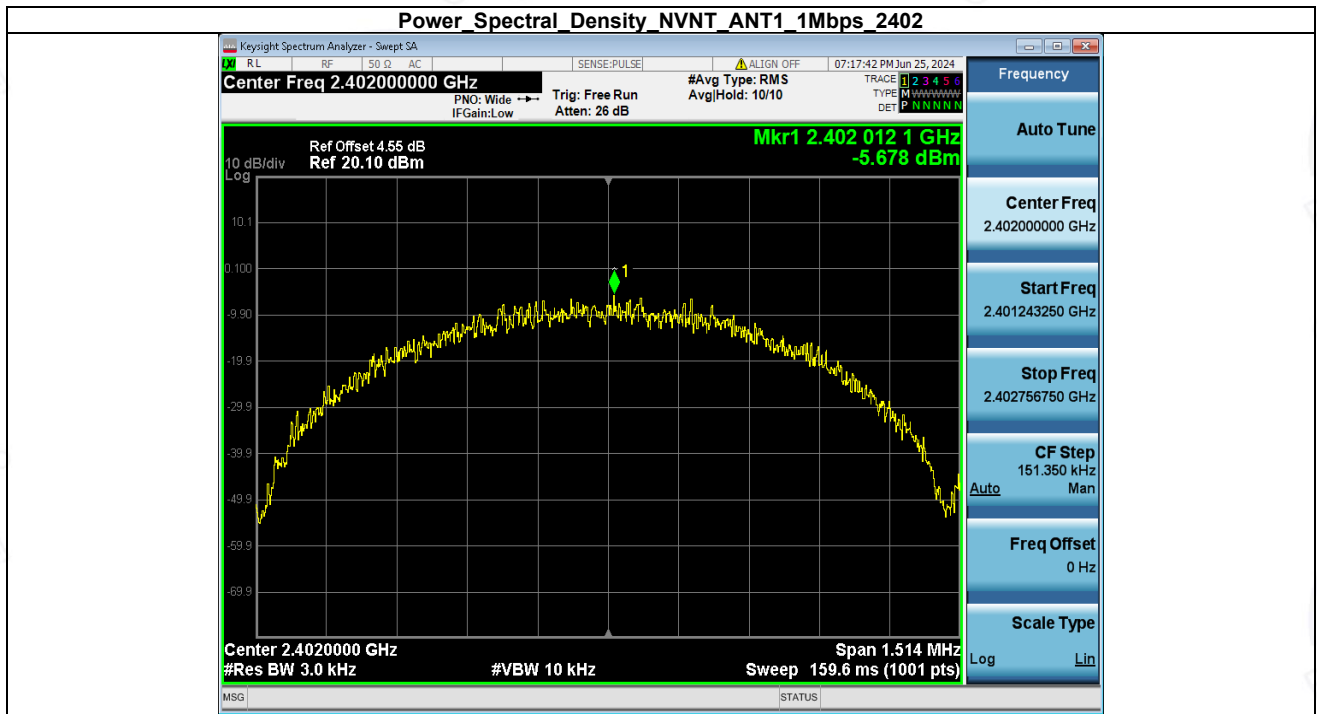
Peak Output Power_NVNT_ANT1_2Mbps_2440





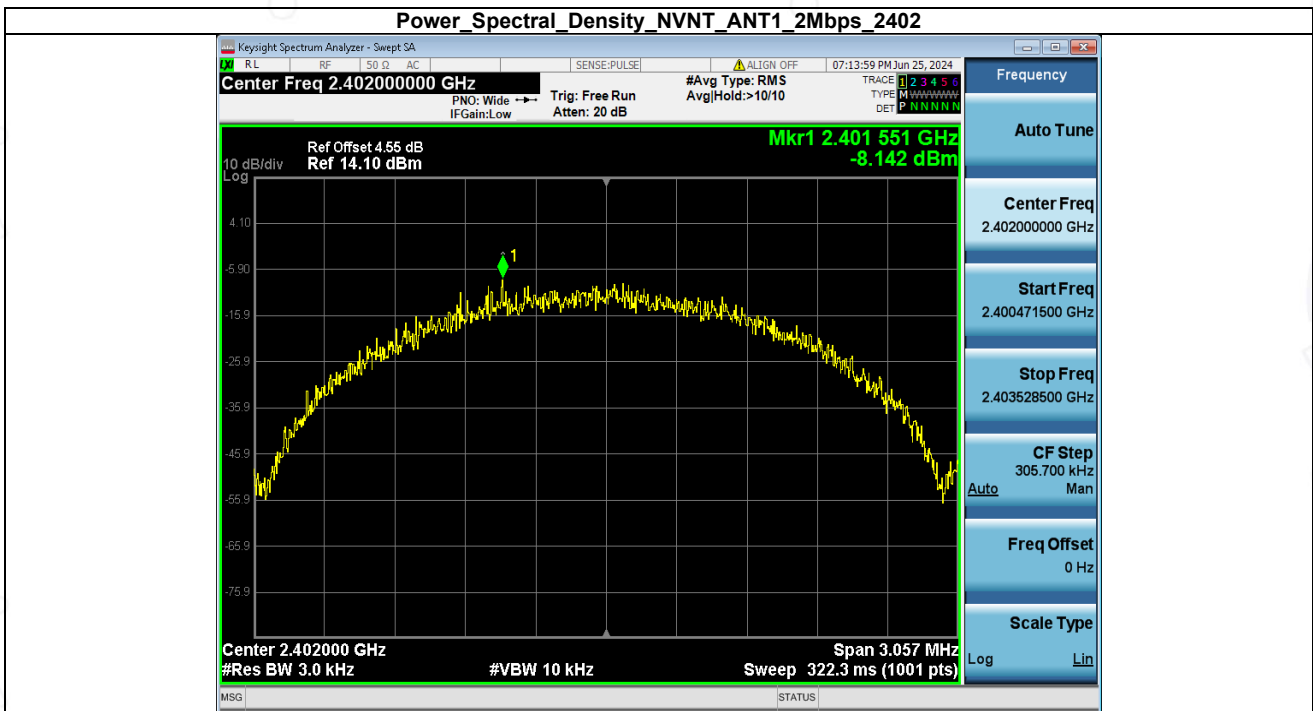
5. Power Spectral Density

Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm)	Limit(dBm/3kHz)	Result
NVNT	ANT1	1Mbps	2402.00	-5.68	8	Pass
NVNT	ANT1	1Mbps	2440.00	-5.07	8	Pass
NVNT	ANT1	1Mbps	2480.00	-6.75	8	Pass
NVNT	ANT1	2Mbps	2402.00	-8.14	8	Pass
NVNT	ANT1	2Mbps	2440.00	-9.41	8	Pass
NVNT	ANT1	2Mbps	2480.00	-8.23	8	Pass



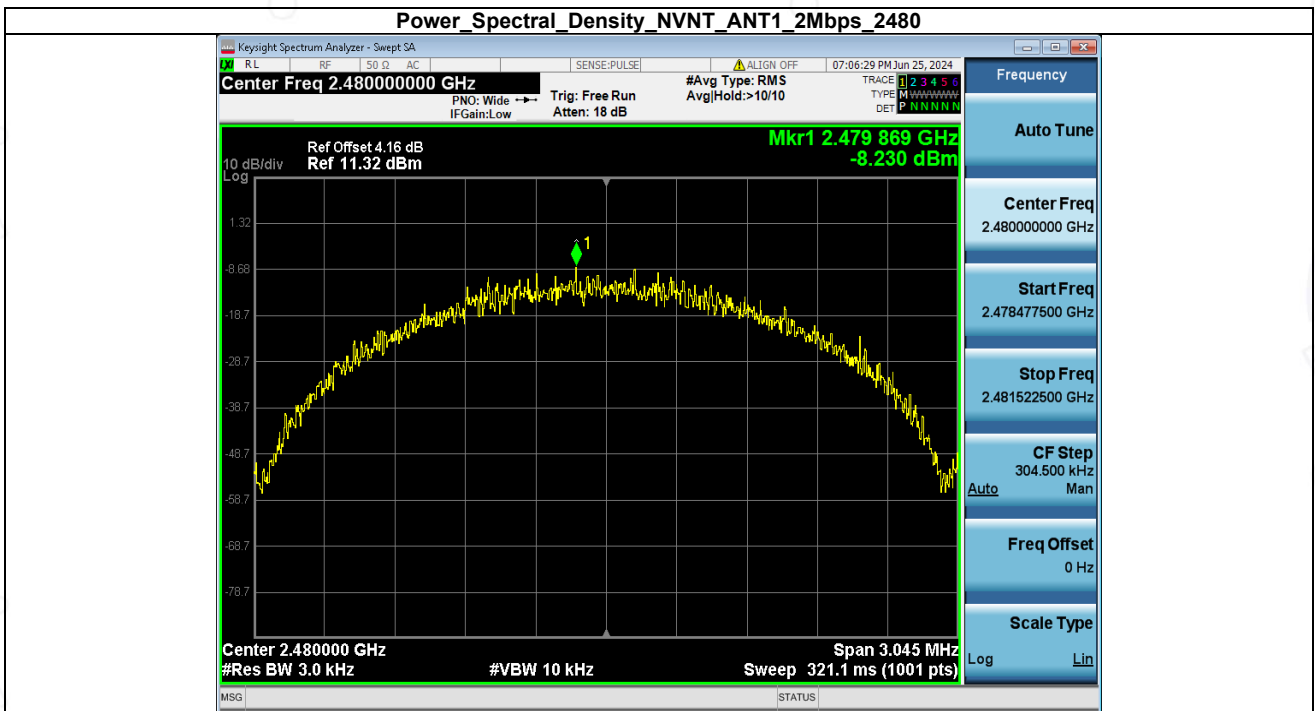
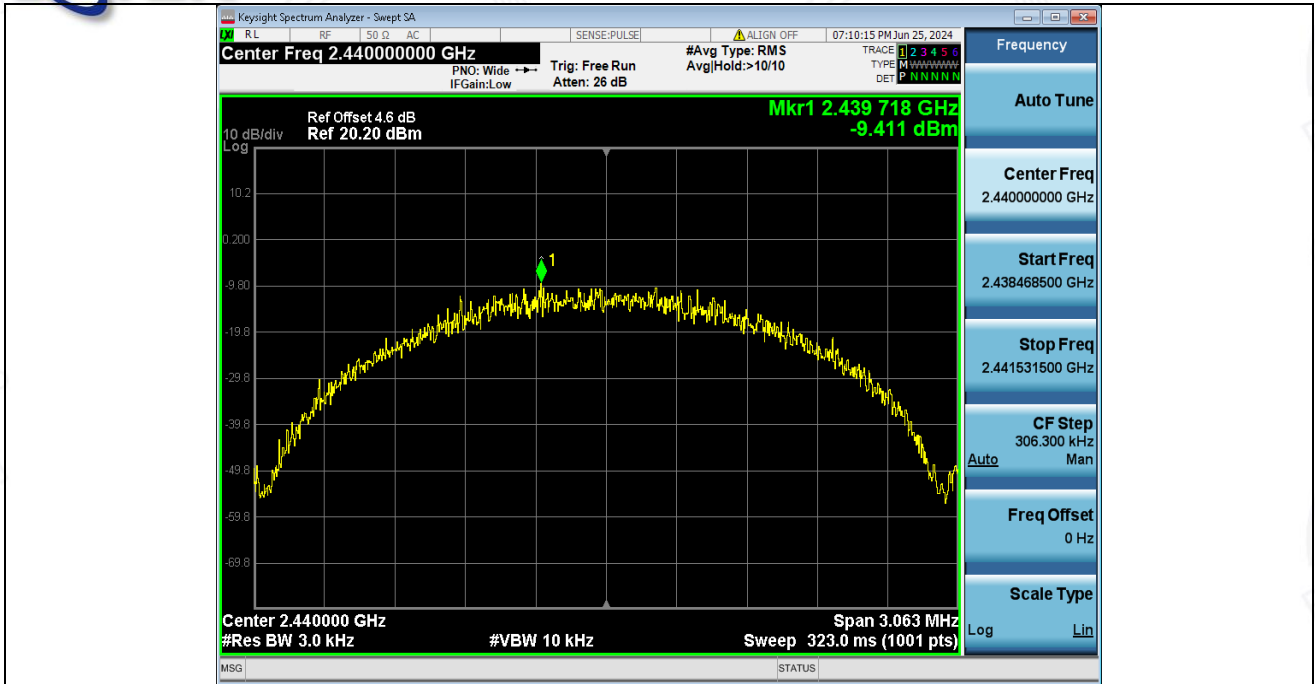
Power Spectral Density_NVNT_ANT1_1Mbps_2480





Power Spectral Density NVNT_ANT1_2Mbps_2440





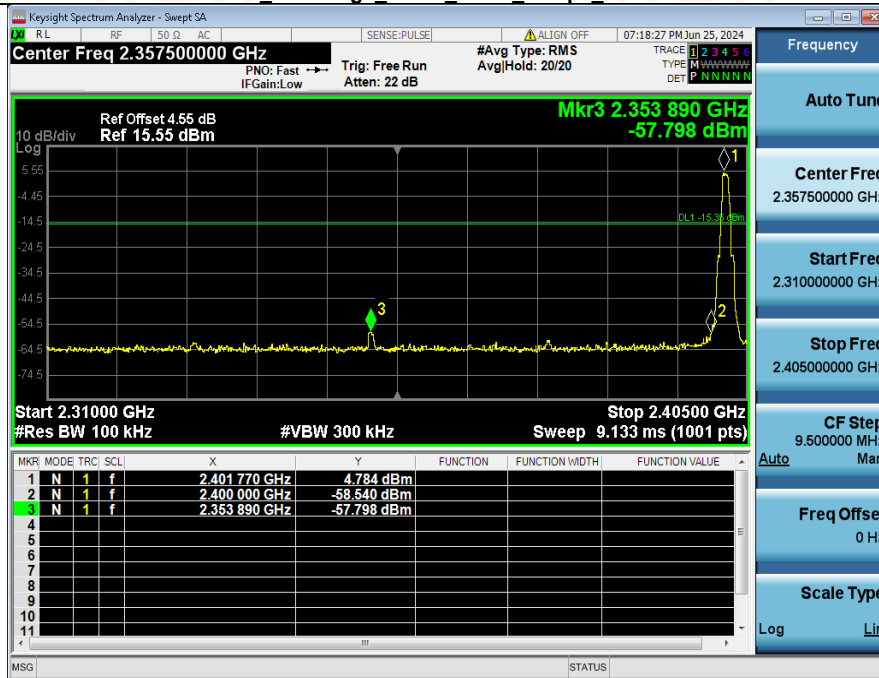
6. Bandedge

Condition	Antenna	Rate	TX_Frequency (MHz)	Max. Mark Frequency (MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	1Mbps	2402.00	2353.890	-57.798	-15.351	Pass
NVNT	ANT1	1Mbps	2480.00	2493.625	-58.230	-16.325	Pass
NVNT	ANT1	2Mbps	2402.00	2399.965	-30.130	-16.787	Pass
NVNT	ANT1	2Mbps	2480.00	2483.525	-59.715	-17.740	Pass

1 Reference Level NVNT ANT1 1Mbps 2402

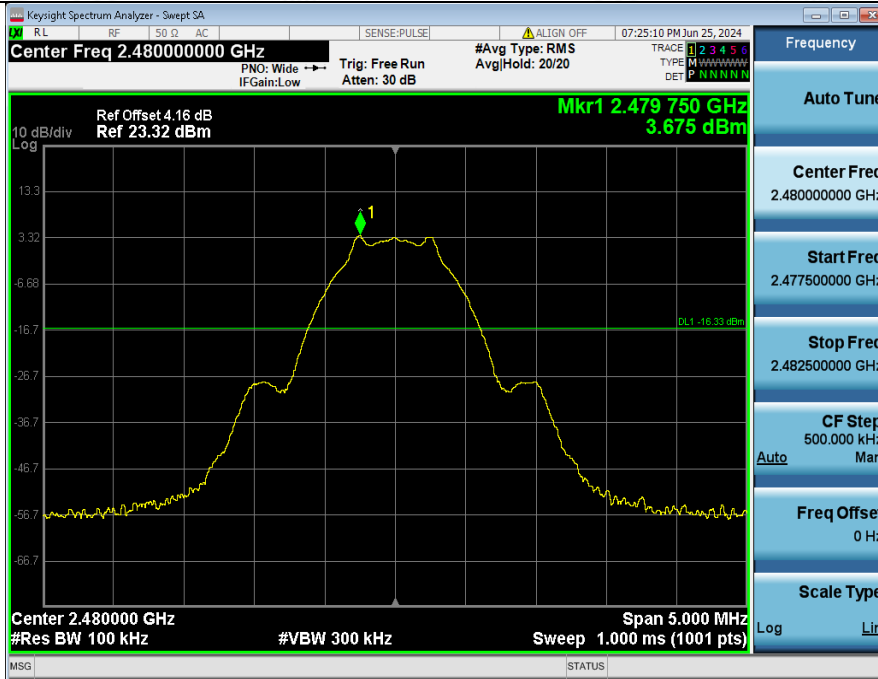


2 Bandedge NVNT ANT1 1Mbps 2402

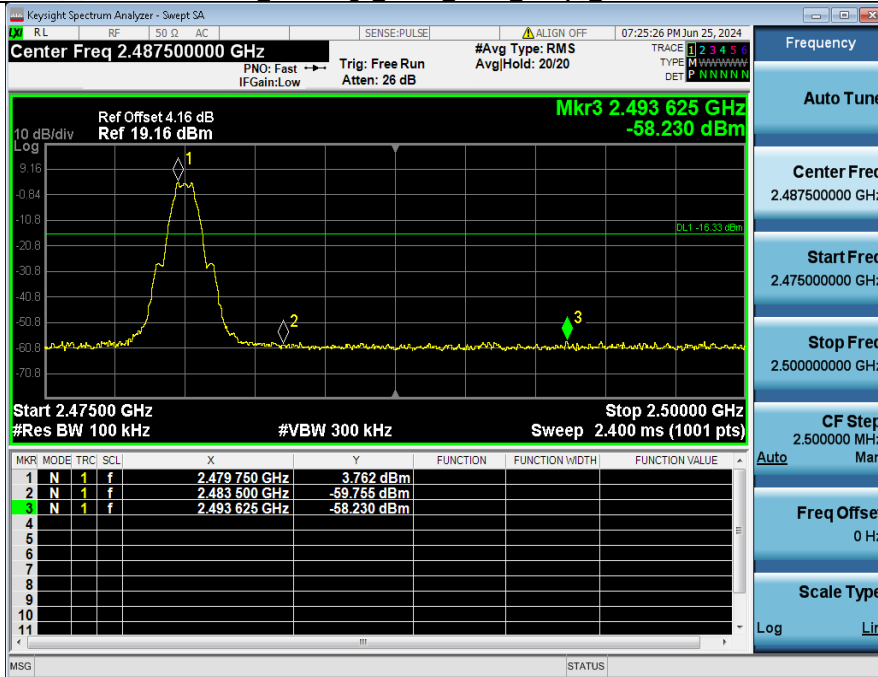


1 Reference Level NVNT ANT1 1Mbps 2480





2_Bandedge_NVNT_ANT1_1Mbps_2480

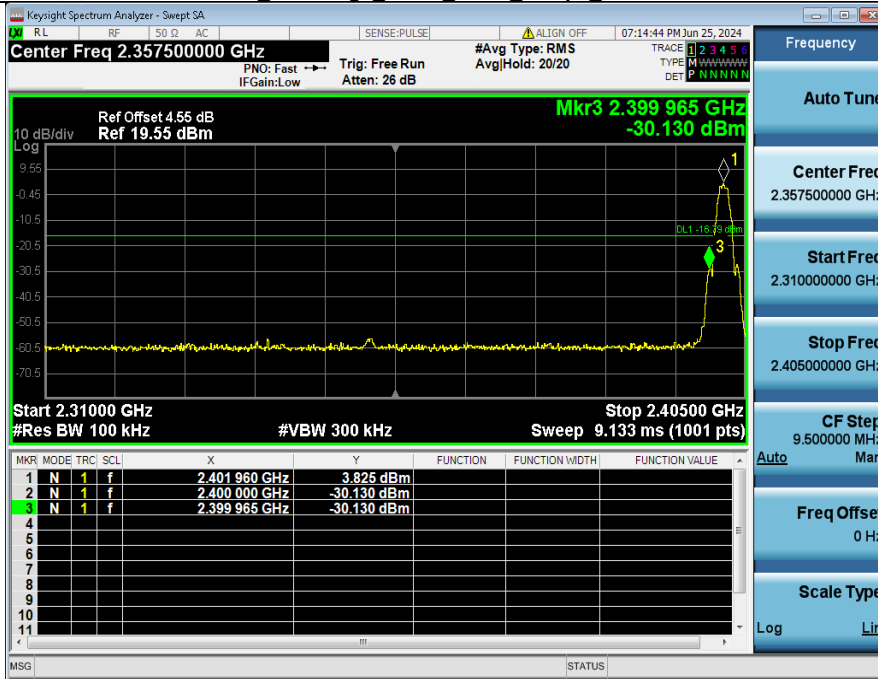


1_Reference_Level_NVNT_ANT1_2Mbps_2402



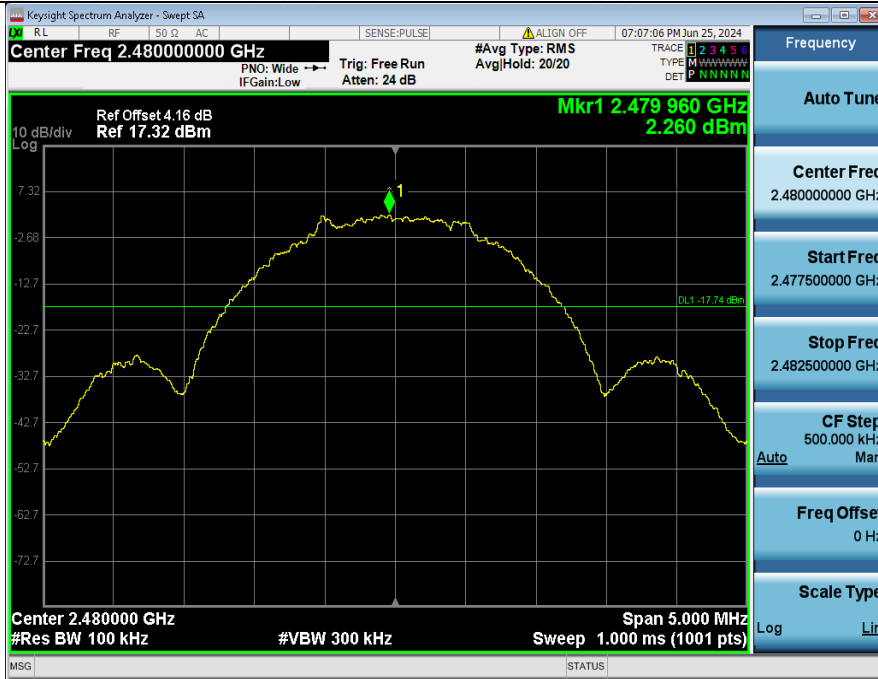


2_Bandedge_NVNT_ANT1_2Mbps_2402

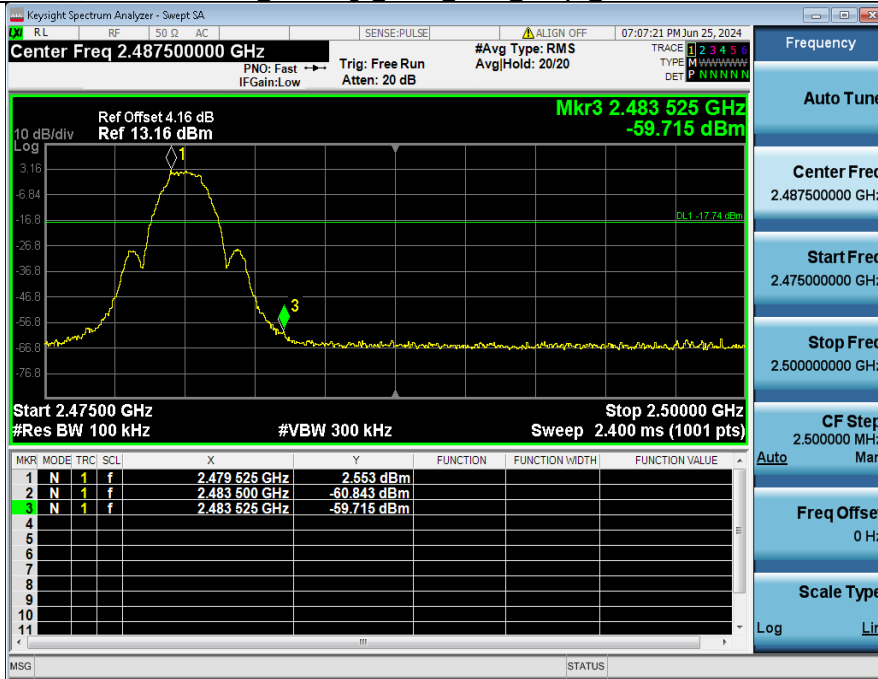


1_Reference_Level_NVNT_ANT1_2Mbps_2480





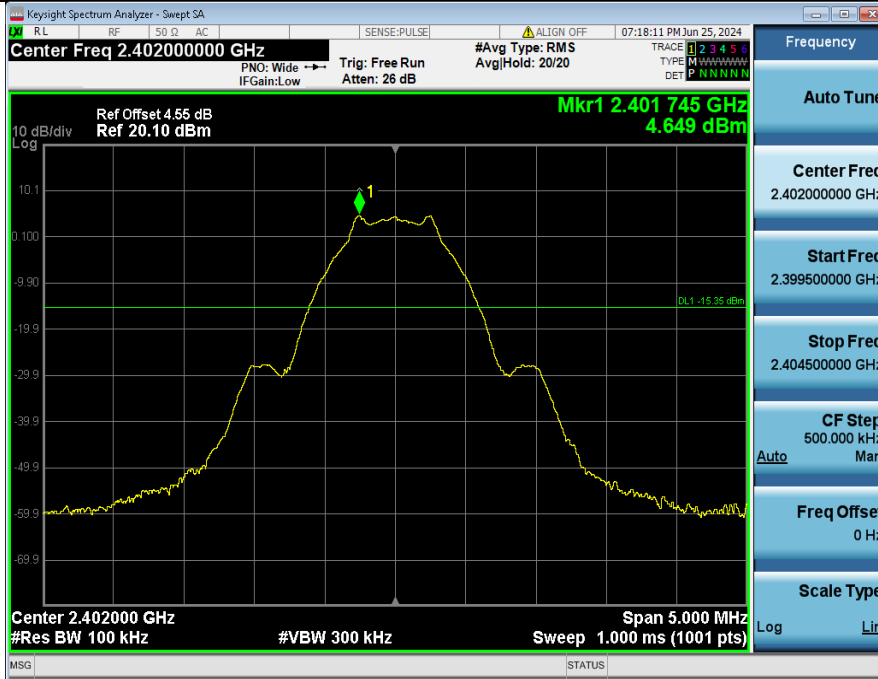
2_Bandedge_NVNT_ANT1_2Mbps_2480



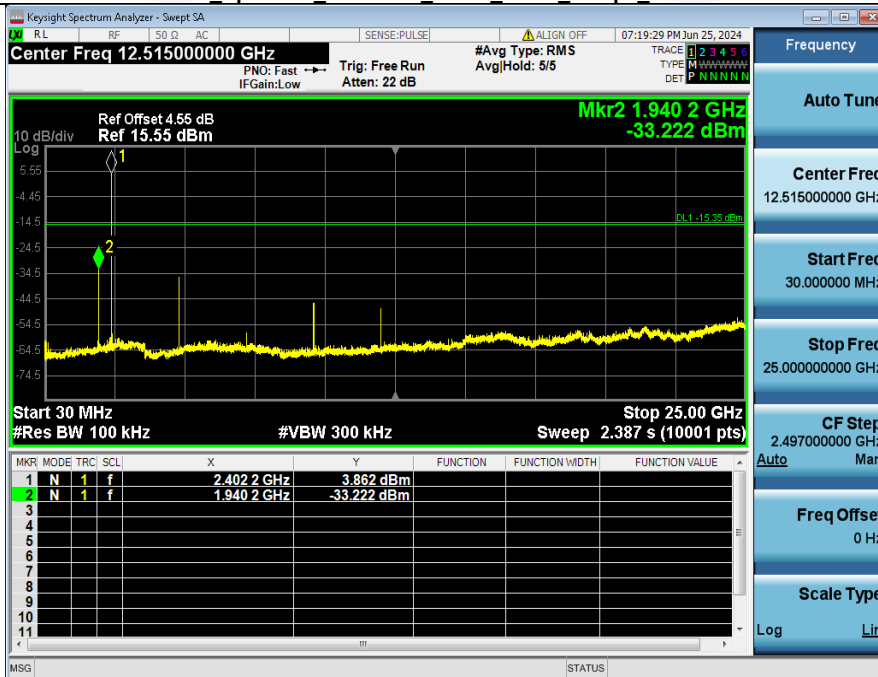
7. Spurious Emission

Condition	Antenna	Rate	TX_Frequency(MHz)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1Mbps	2402.00	-33.222	-15.351	Pass
NVNT	ANT1	1Mbps	2440.00	-36.425	-16.555	Pass
NVNT	ANT1	1Mbps	2480.00	-36.328	-16.325	Pass
NVNT	ANT1	2Mbps	2402.00	-37.513	-16.787	Pass
NVNT	ANT1	2Mbps	2440.00	-38.950	-17.363	Pass
NVNT	ANT1	2Mbps	2480.00	-39.167	-17.740	Pass

1 Reference_Level_NVNT_ANT1_1Mbps_2402



2 Spurious Emission_NVNT_ANT1_1Mbps_2402

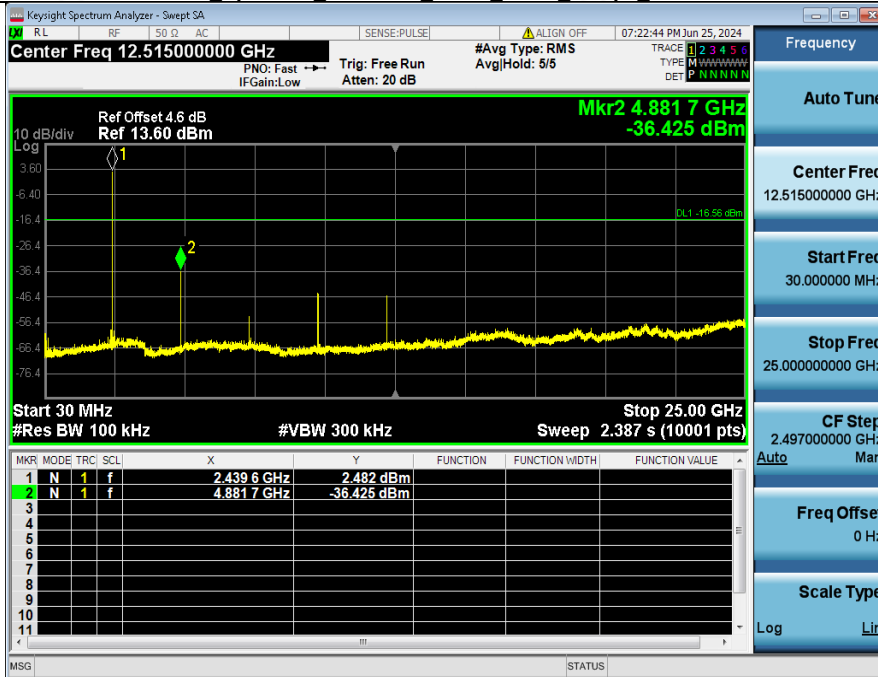


1 Reference_Level_NVNT_ANT1_1Mbps_2440



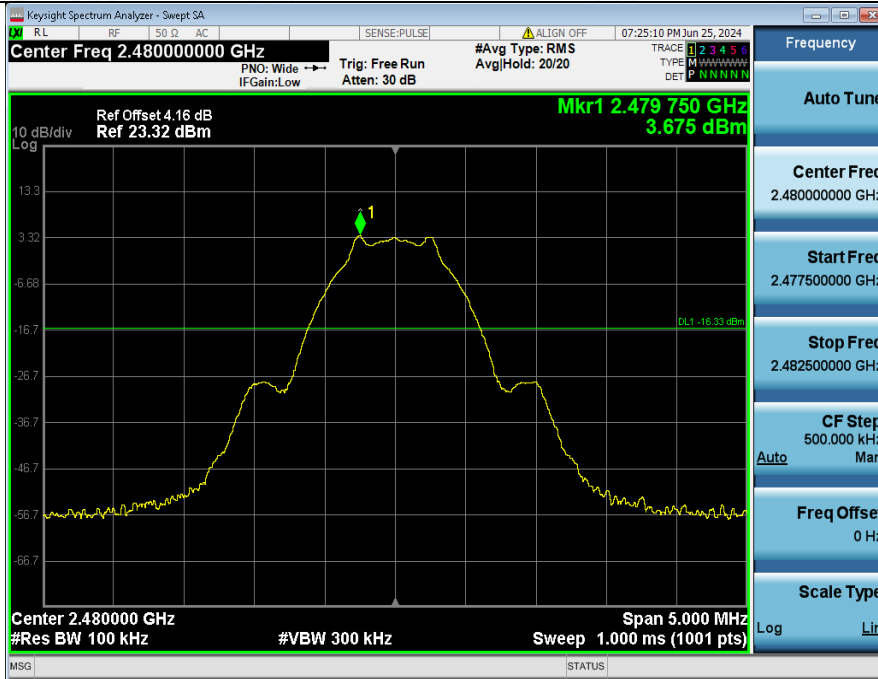


2_Spurious Emission_NVNT_ANT1_1Mbps_2440

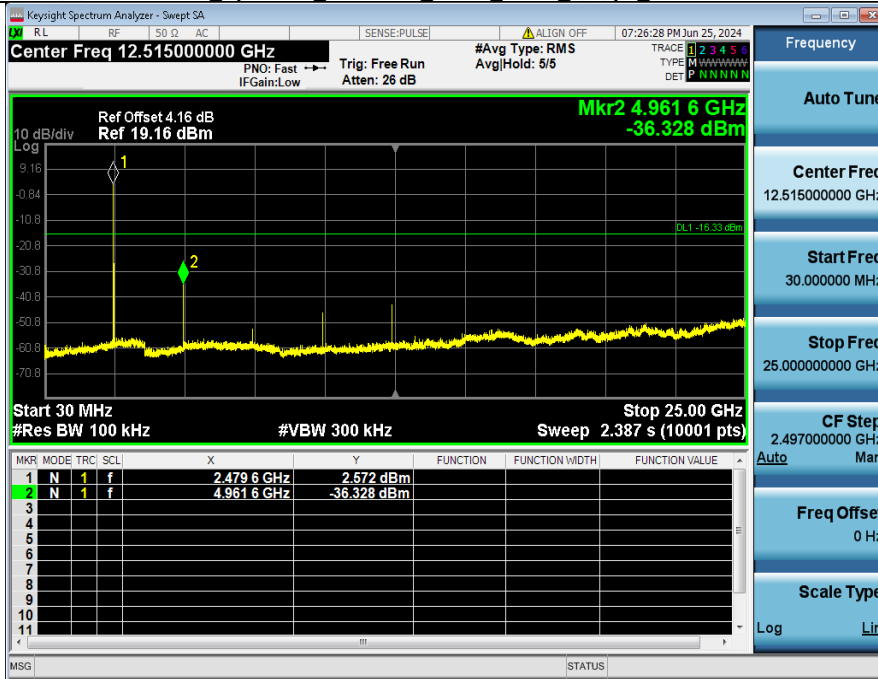


1 Reference Level_NVNT_ANT1_1Mbps_2480



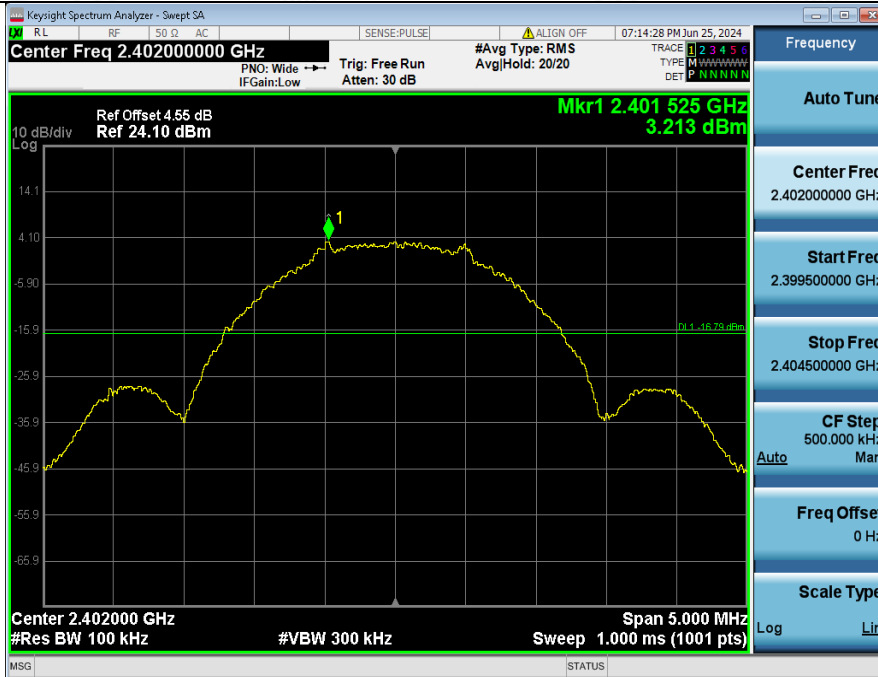


2_Spurious Emission_NVNT_ANT1_1Mbps_2480

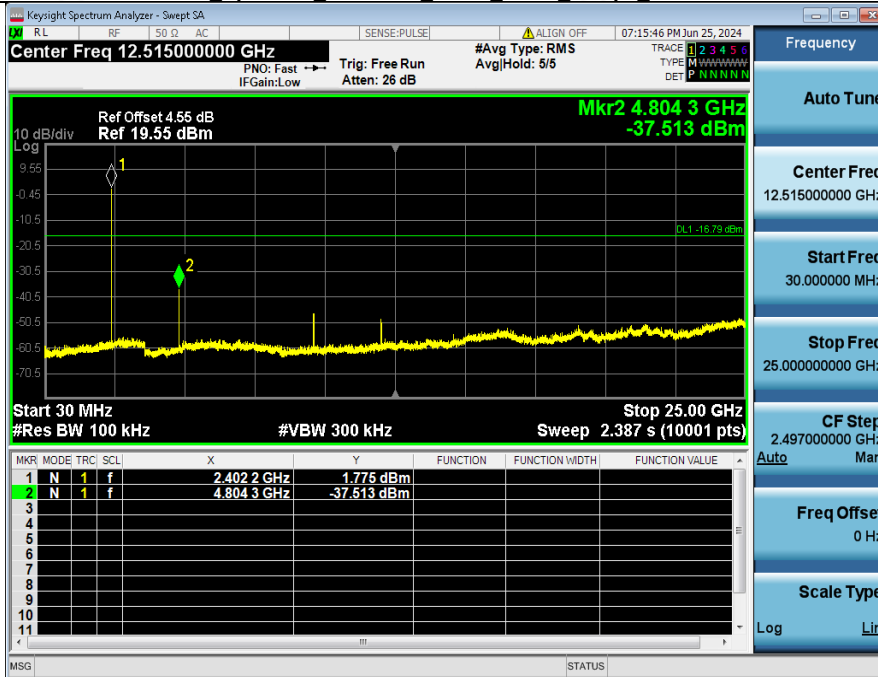


1_Reference Level_NVNT_ANT1_2Mbps_2402



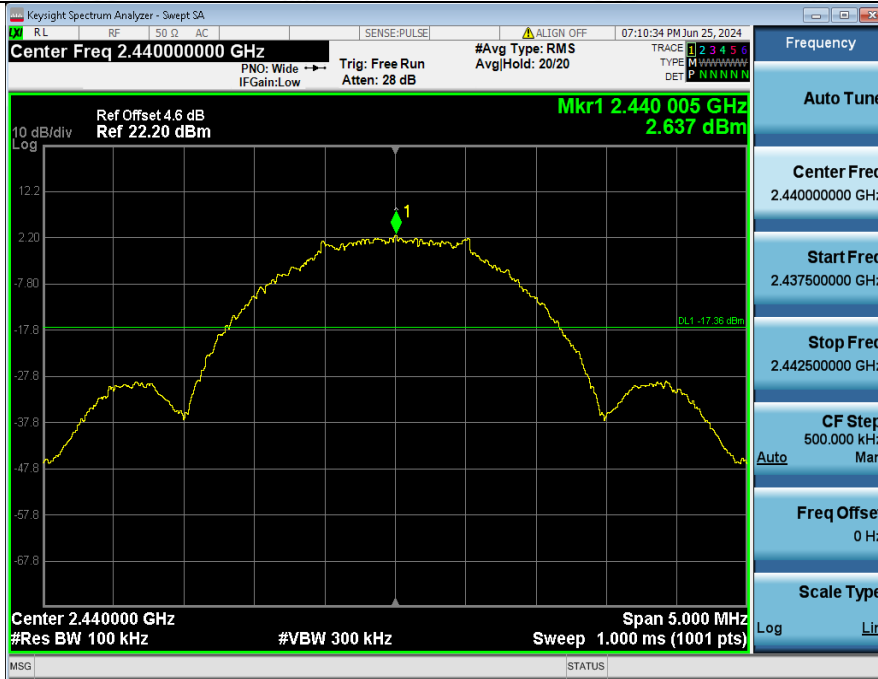


2_Spurious Emission_NVNT_ANT1_2Mbps_2402

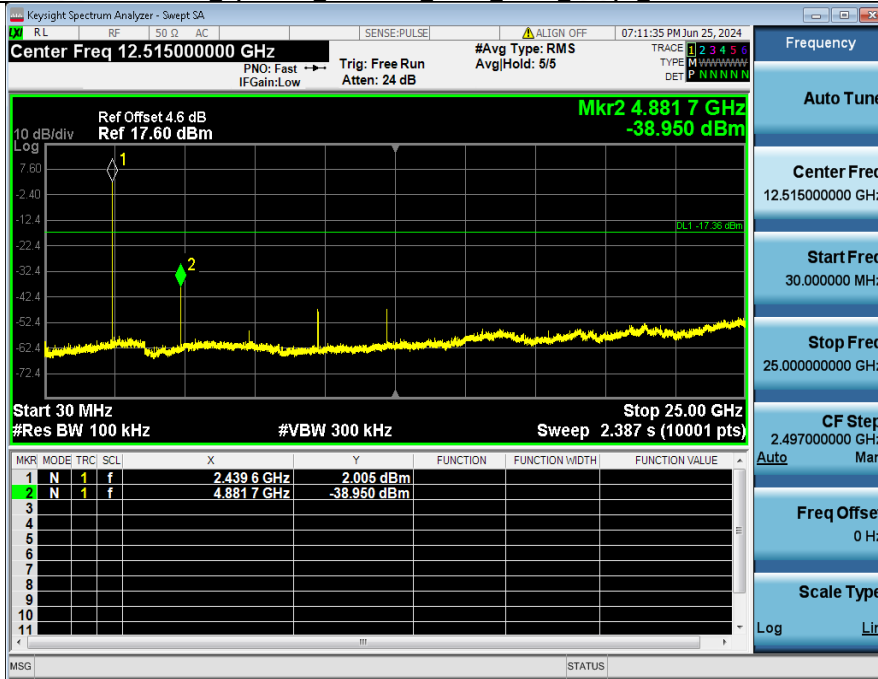


1_Reference_Level_NVNT_ANT1_2Mbps_2440



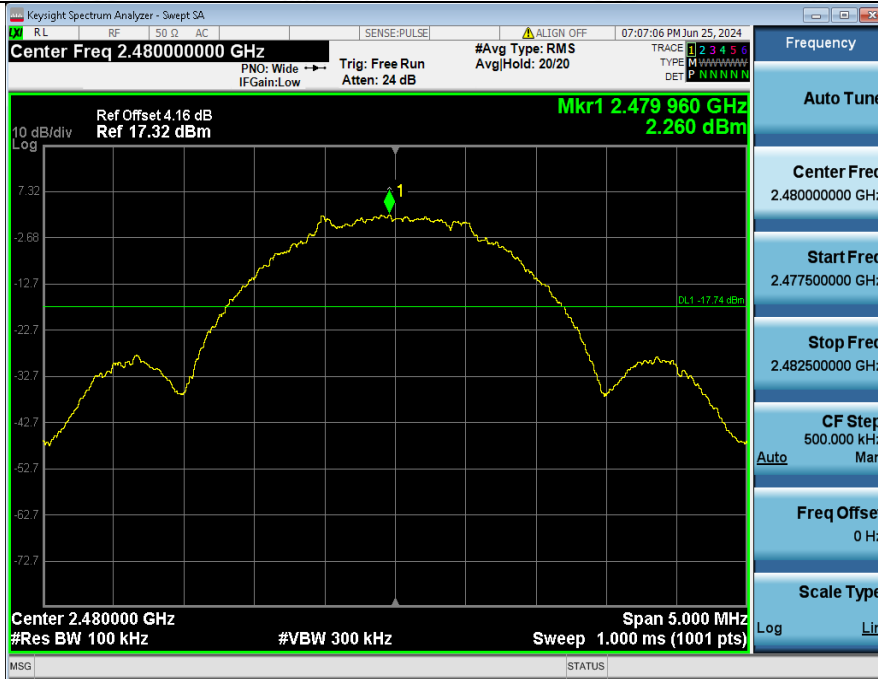


2_Spurious Emission_NVNT_ANT1_2Mbps_2440



1_Reference_Level_NVNT_ANT1_2Mbps_2480





2_Spurious Emission_NVNT_ANT1_2Mbps_2480

