

# Appendix

## BLE Test Data

### for BTEK240509015AE



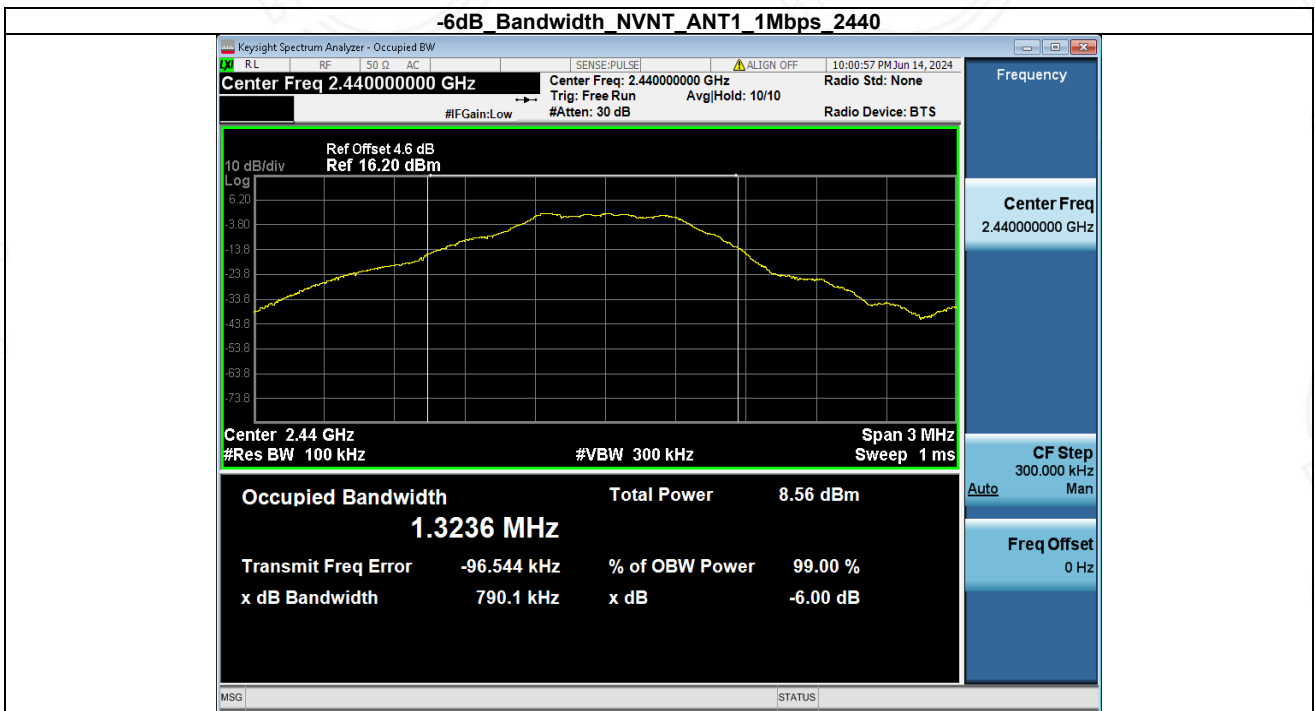
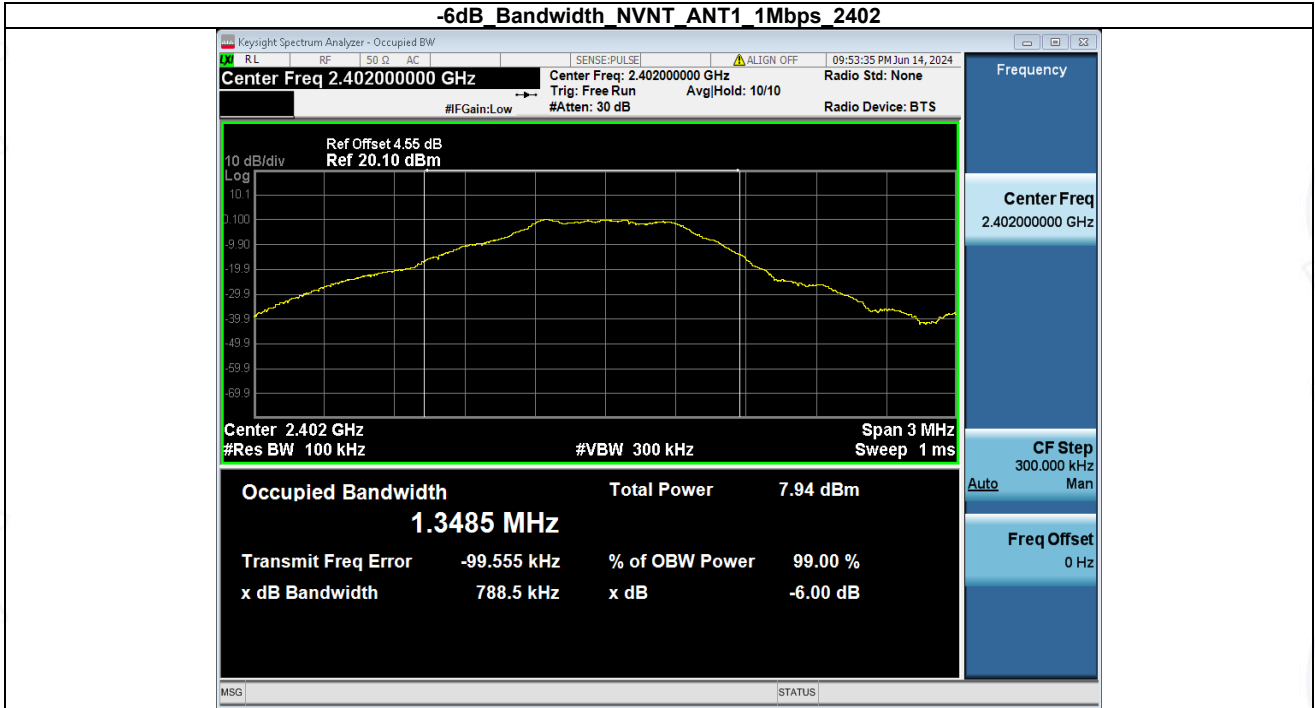
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# 1. -6dB Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	-6dB BW(kHz)	limit(kHz)	Result
NVNT	ANT1	1Mbps	2402.00	788.49	500	Pass
NVNT	ANT1	1Mbps	2440.00	790.07	500	Pass
NVNT	ANT1	1Mbps	2480.00	781.14	500	Pass



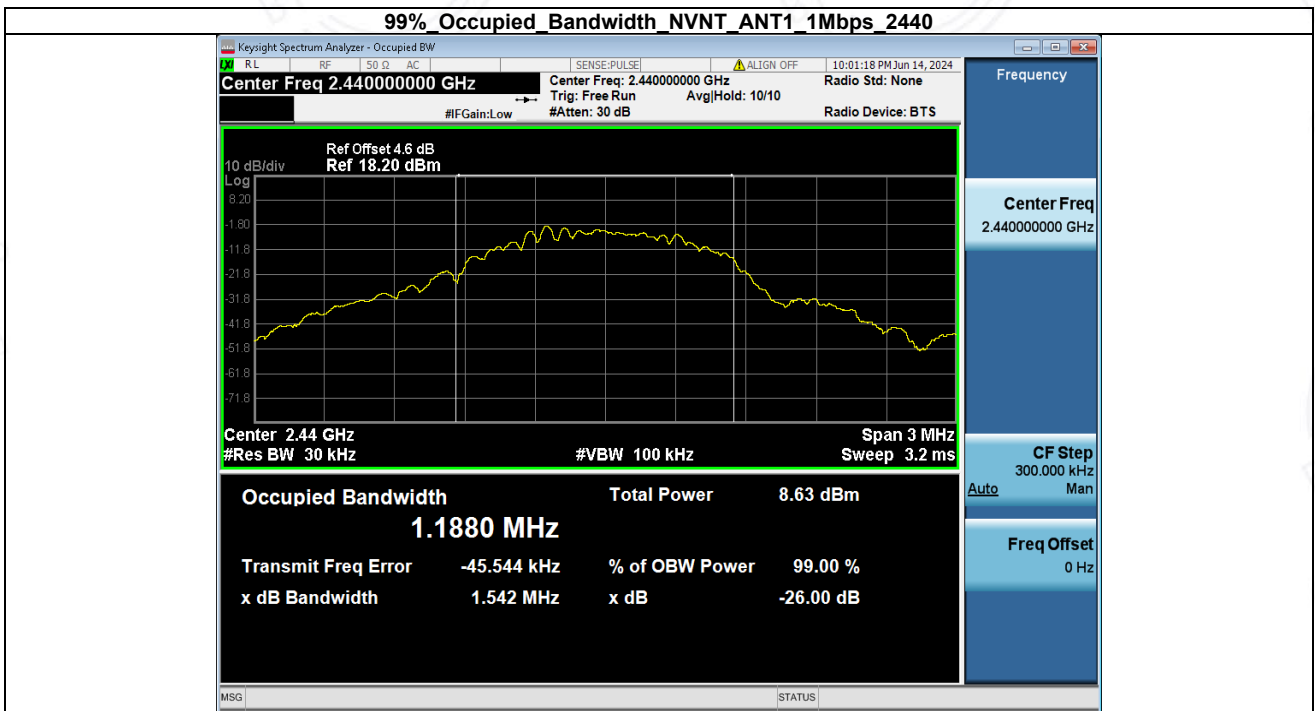
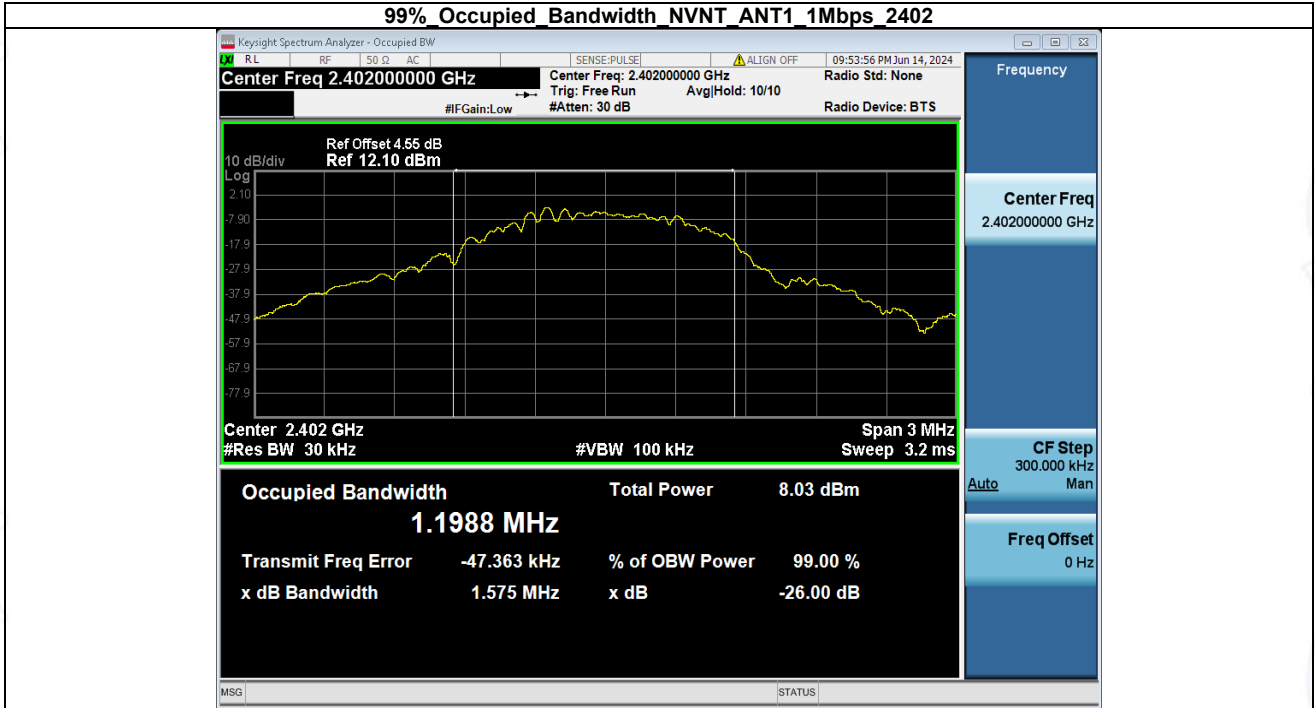
**-6dB Bandwidth NVNT\_ANT1\_1Mbps\_2480**





## 2. 99% Occupied Bandwidth

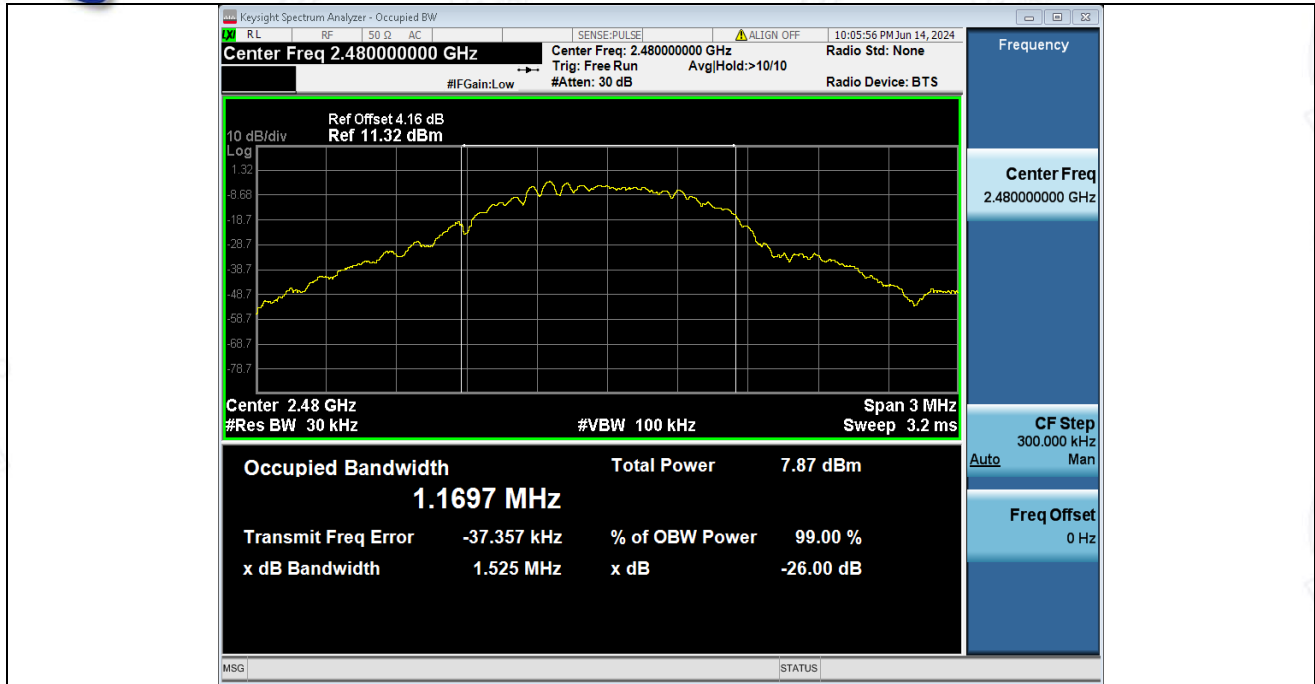
Condition	Antenna	Rate	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	1Mbps	2402.00	1.199
NVNT	ANT1	1Mbps	2440.00	1.188
NVNT	ANT1	1Mbps	2480.00	1.170



**99% Occupied Bandwidth NVNT ANT1 1Mbps 2480**

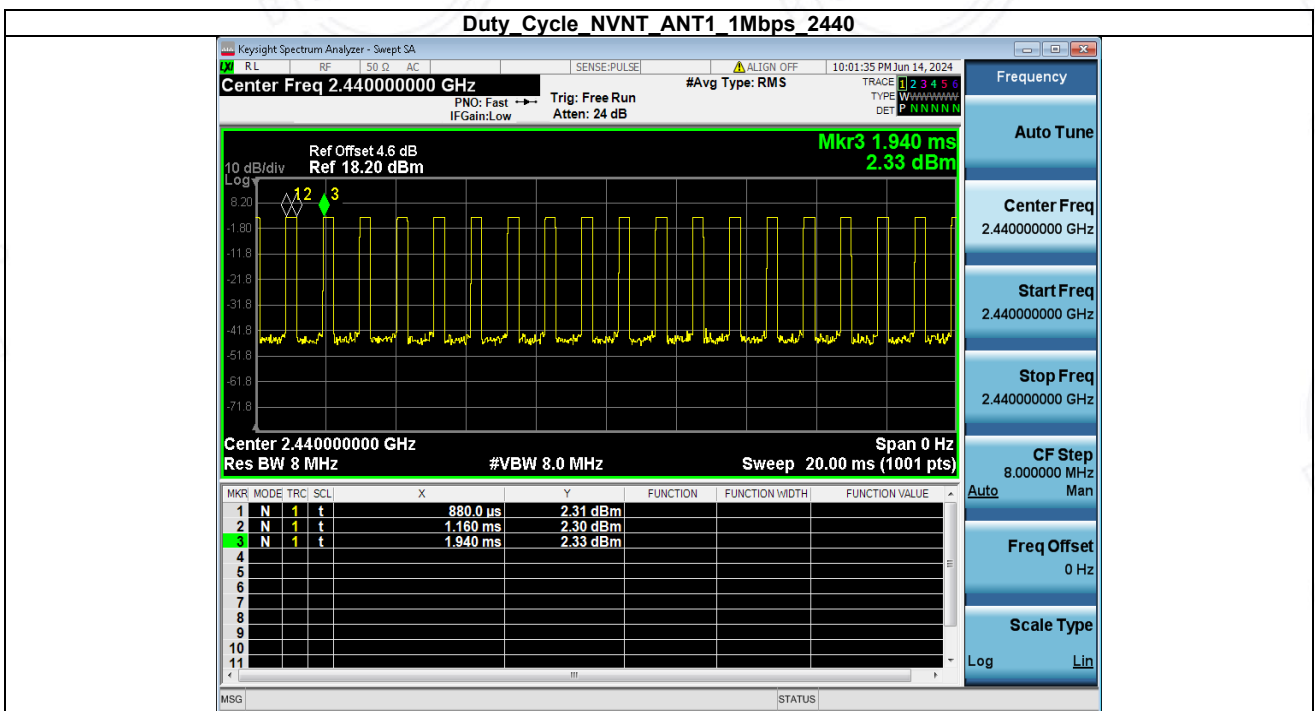
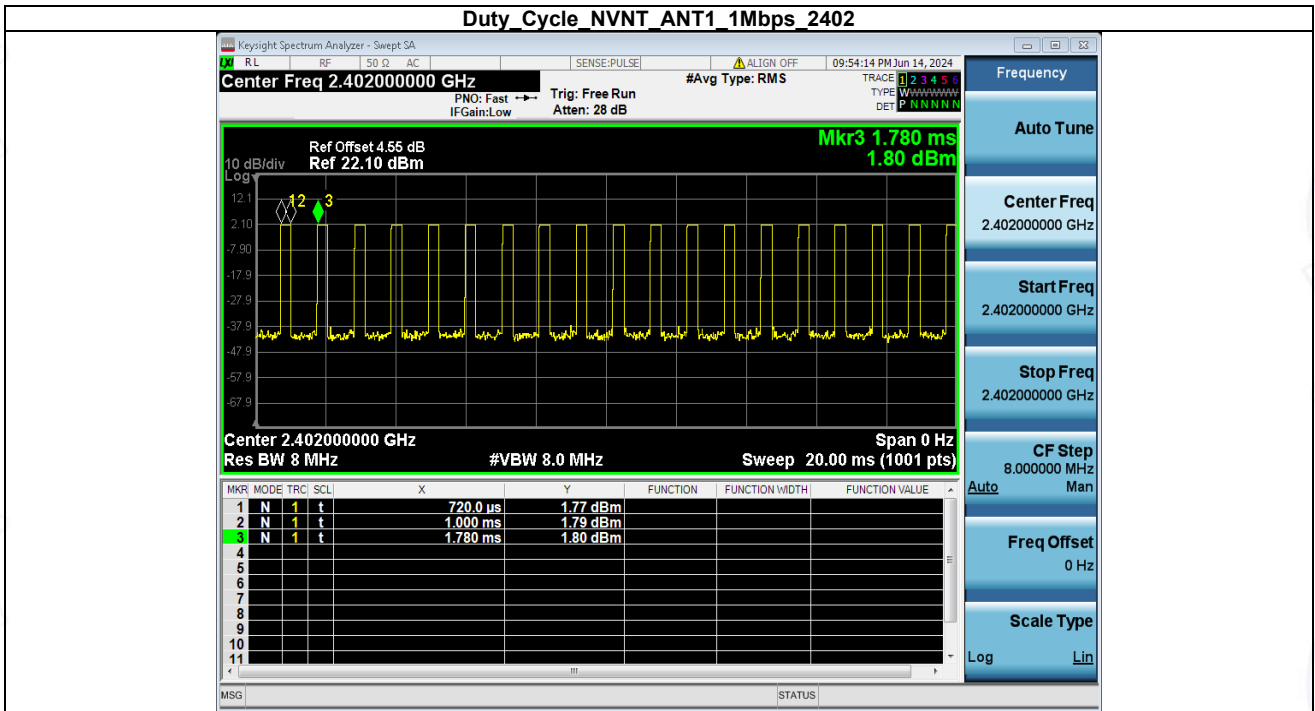






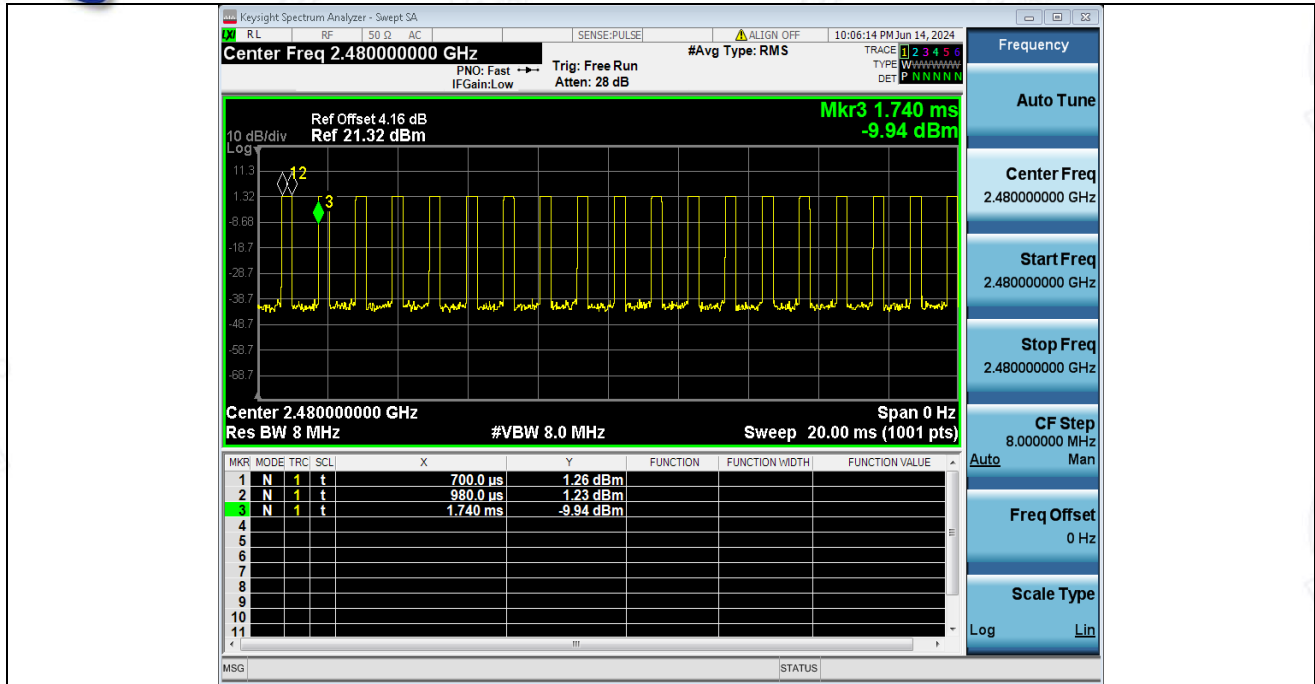
### 3. Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1Mbps	2402.00	26.42	5.78
NVNT	ANT1	1Mbps	2440.00	28.30	5.48
NVNT	ANT1	1Mbps	2480.00	26.92	5.70



**Duty Cycle NVNT\_ANT1\_1Mbps\_2480**

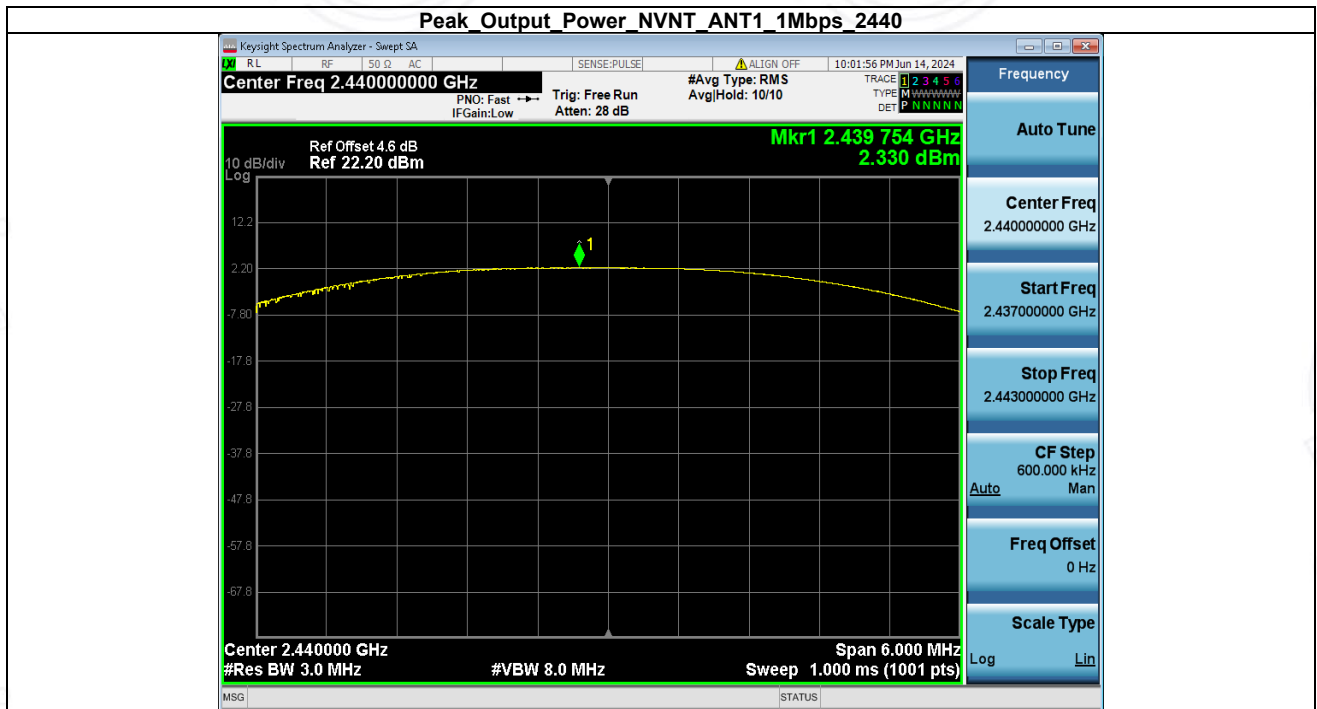
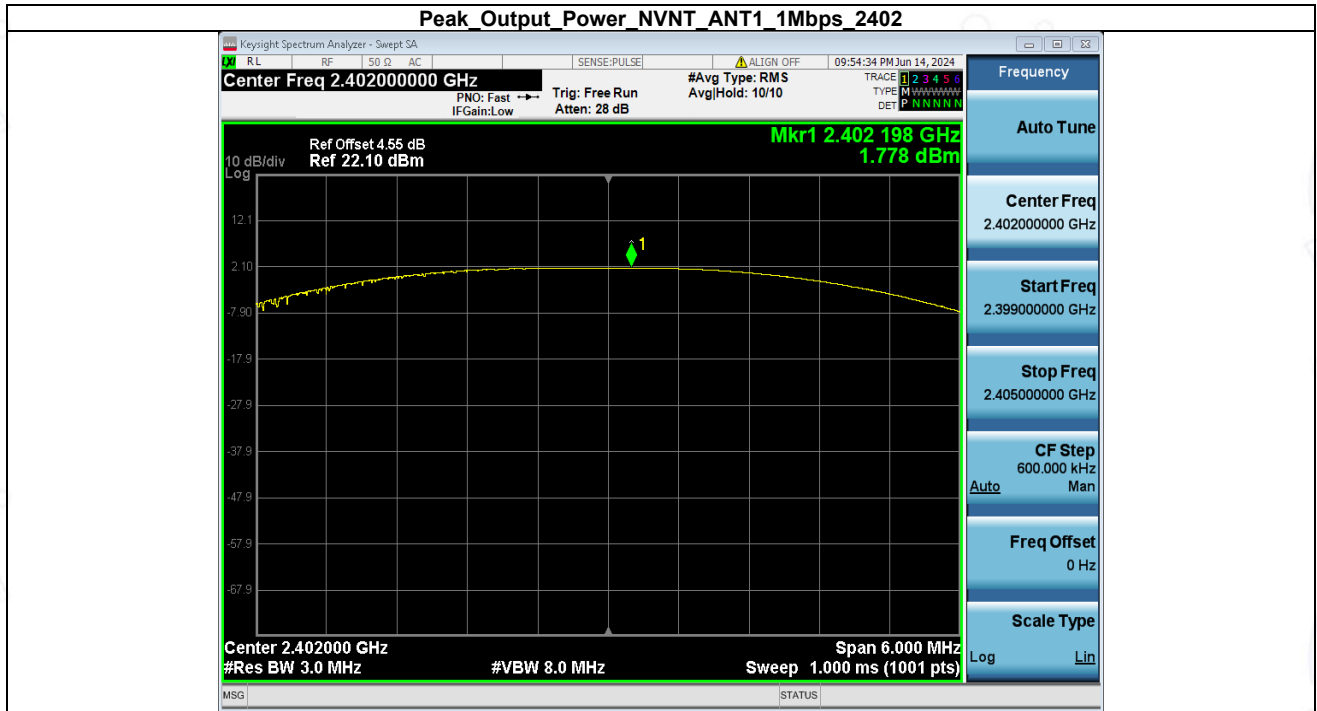






### 4. Peak Output Power

Condition	Antenna	Rate	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1Mbps	2402.00	1.78	1.51	1000	Pass
NVNT	ANT1	1Mbps	2440.00	2.33	1.71	1000	Pass
NVNT	ANT1	1Mbps	2480.00	1.27	1.34	1000	Pass



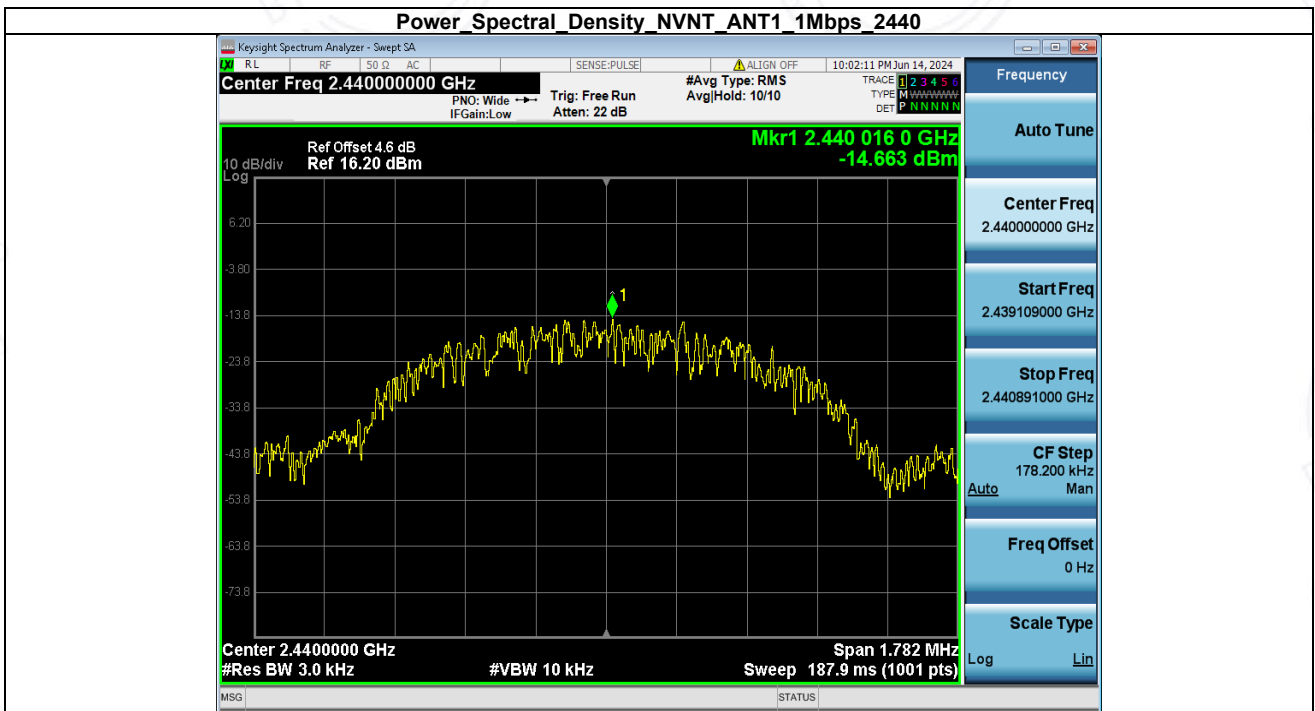
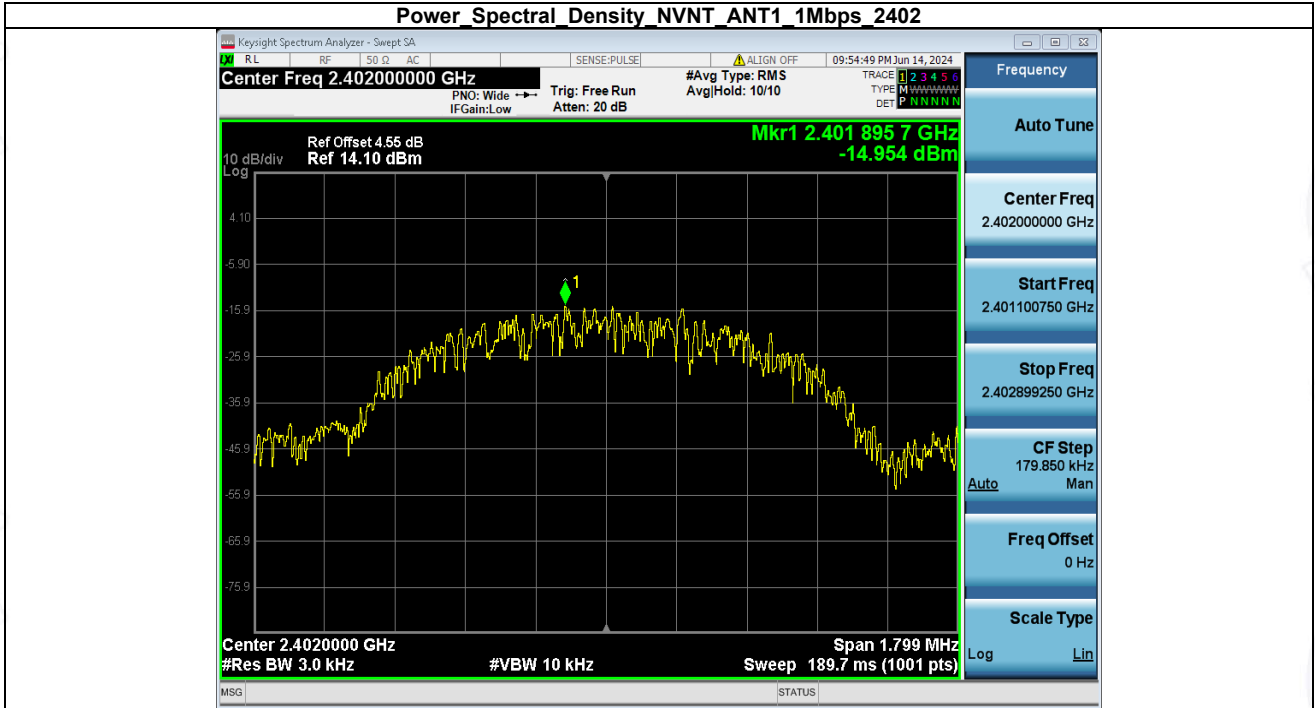
**Peak Output Power\_NVNT\_ANT1\_1Mbps\_2480**





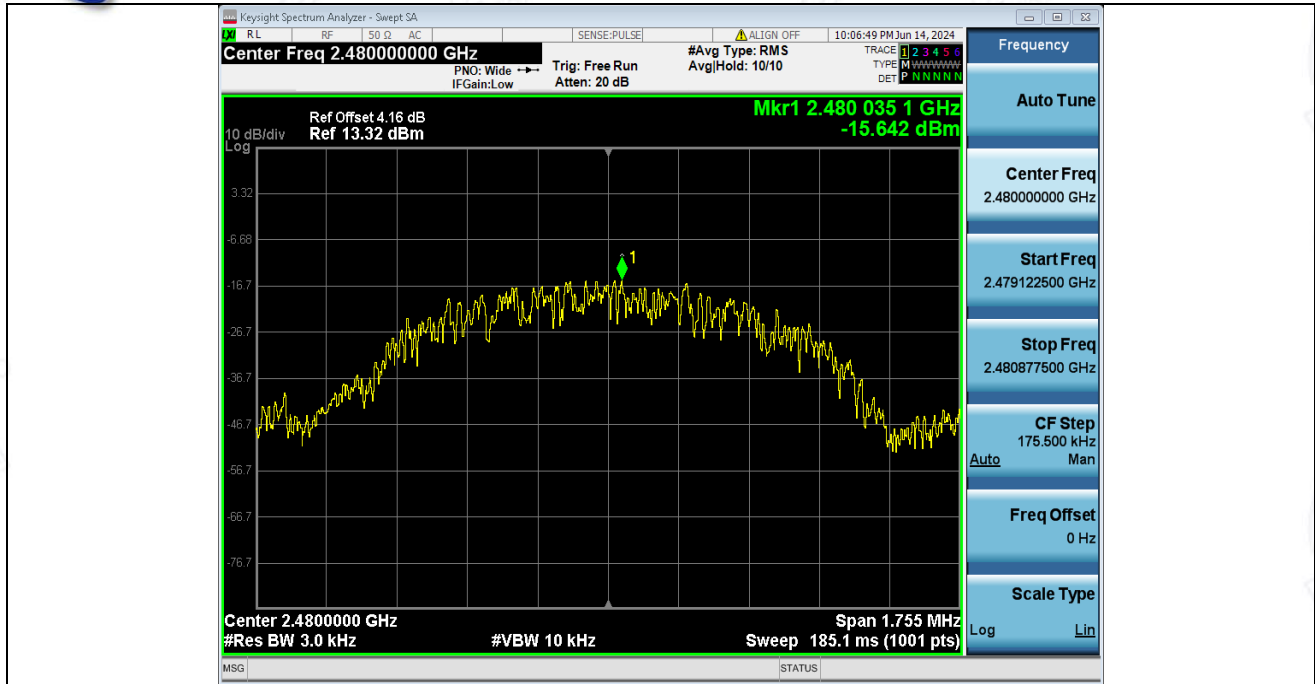
### 5. Power Spectral Density

Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm)	Limit(dBm/3kHz)	Result
NVNT	ANT1	1Mbps	2402.00	-14.95	8	Pass
NVNT	ANT1	1Mbps	2440.00	-14.66	8	Pass
NVNT	ANT1	1Mbps	2480.00	-15.64	8	Pass



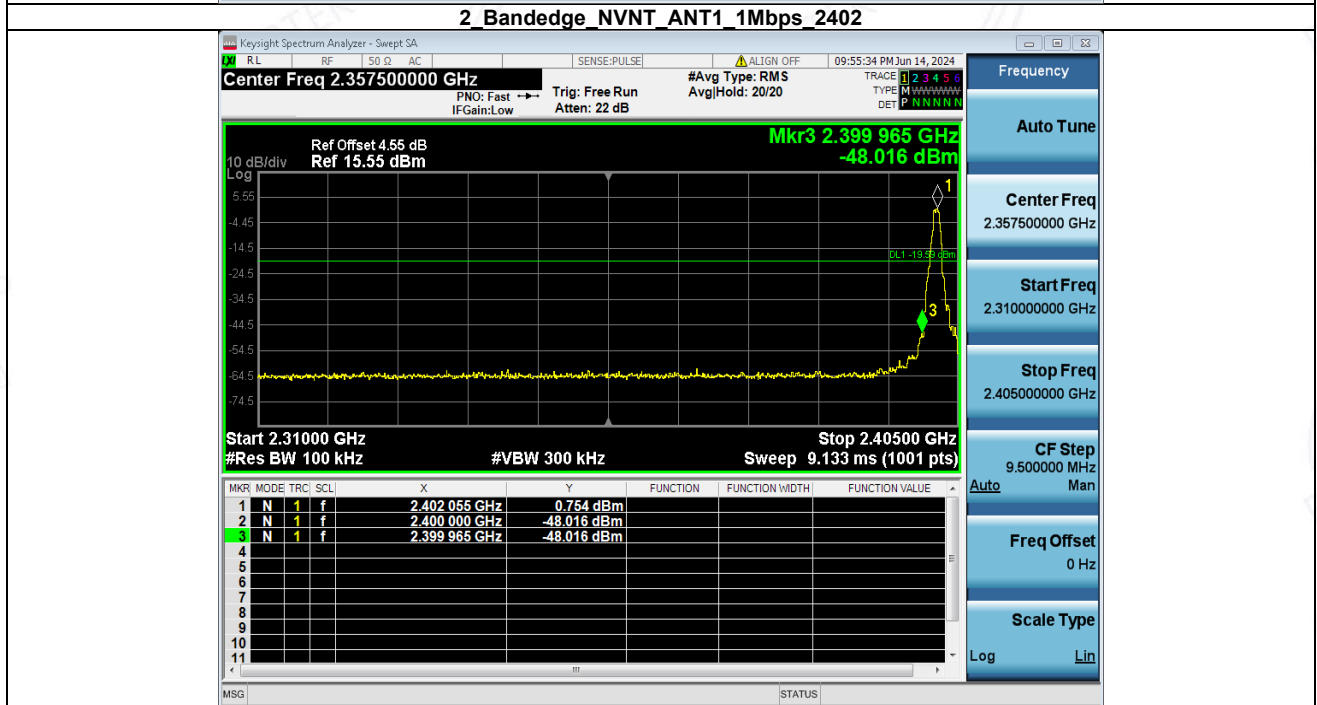
**Power Spectral Density\_NVNT\_ANT1\_1Mbps\_2480**





## 6. Bandedge

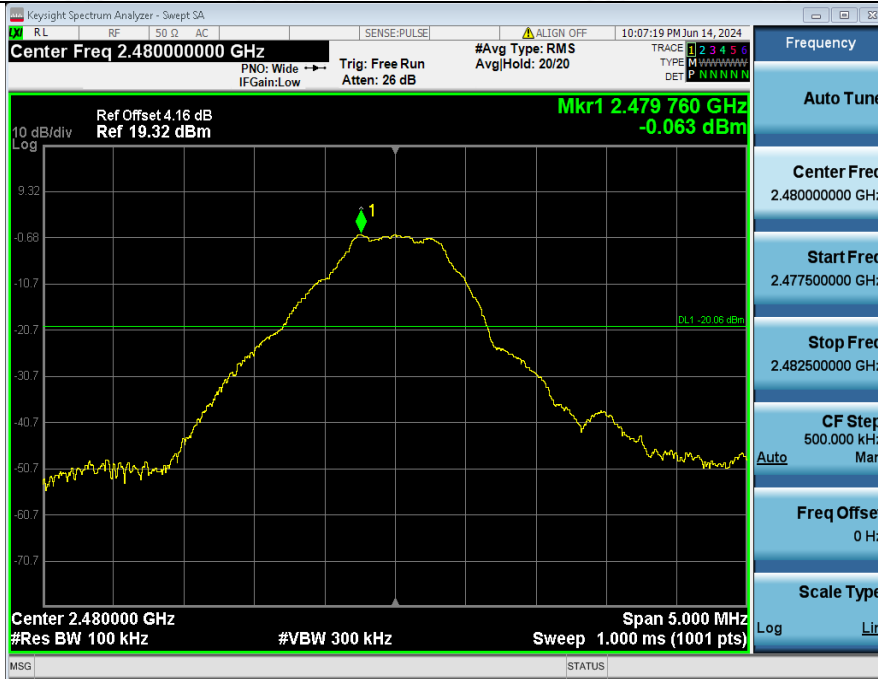
Condition	Antenna	Rate	TX_Frequency (MHz)	Max. Mark Frequency (MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	1Mbps	2402.00	2399.965	-48.016	-19.593	Pass
NVNT	ANT1	1Mbps	2480.00	2483.525	-55.683	-20.063	Pass



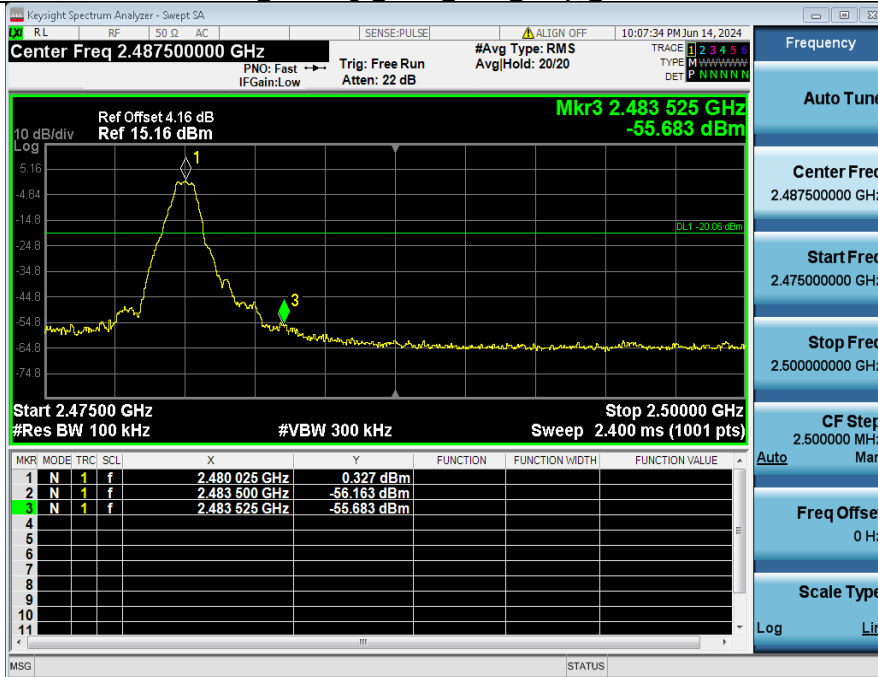
**1 Reference\_Level\_NVNT\_ANT1\_1Mbps\_2480**







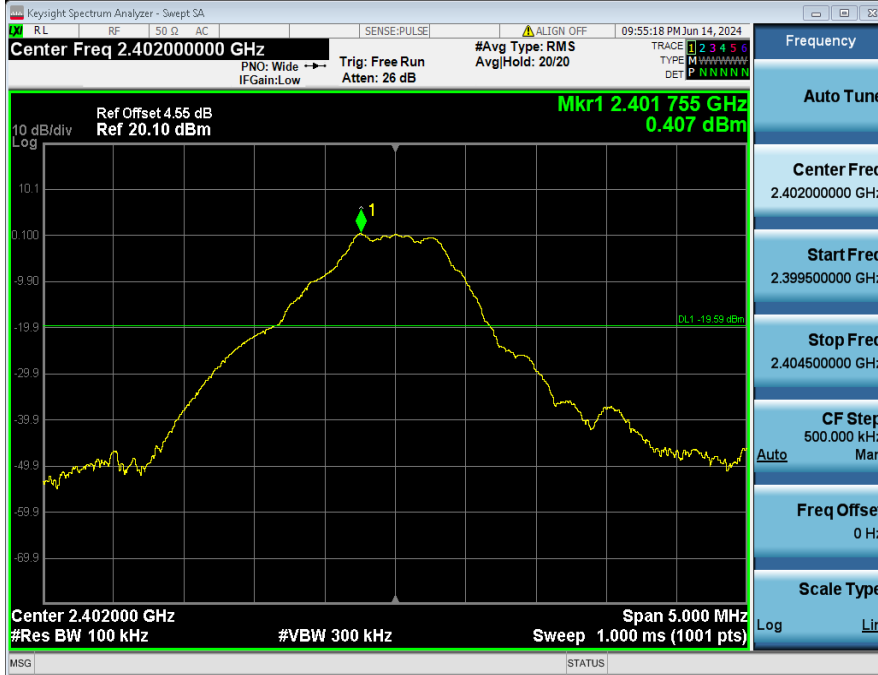
2\_Bandedge\_NVNT\_ANT1\_1Mbps\_2480



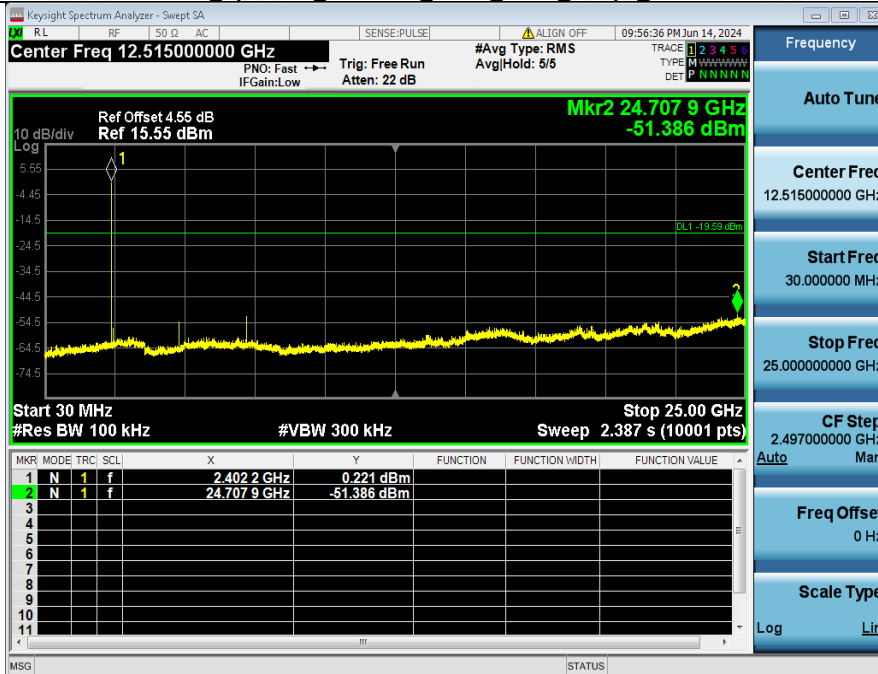
## 7. Spurious Emission

Condition	Antenna	Rate	TX_Frequency(MHz)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1Mbps	2402.00	-51.386	-19.593	Pass
NVNT	ANT1	1Mbps	2440.00	-52.300	-19.224	Pass
NVNT	ANT1	1Mbps	2480.00	-52.328	-20.063	Pass

1 Reference\_Level\_NVNT\_ANT1\_1Mbps\_2402

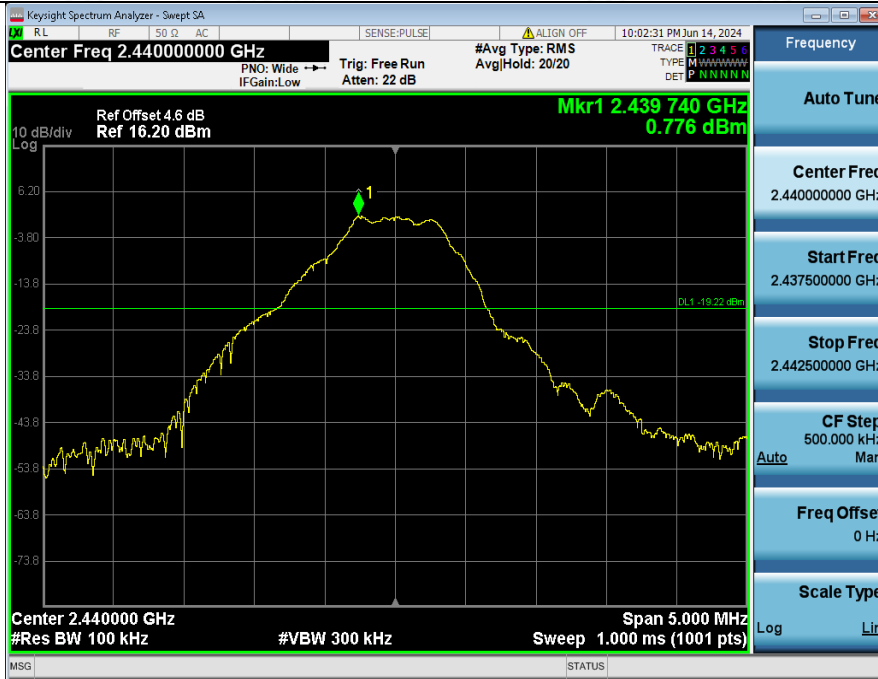


2 Spurious Emission\_NVNT\_ANT1\_1Mbps\_2402

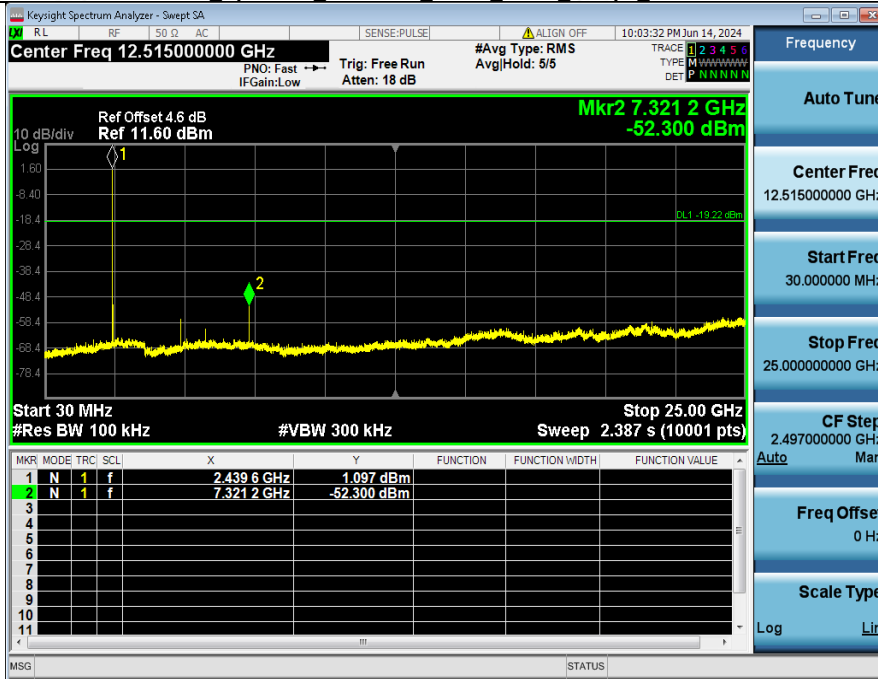


1 Reference\_Level\_NVNT\_ANT1\_1Mbps\_2440





2\_Spurious Emission\_NVNT\_ANT1\_1Mbps\_2440



1\_Reference\_Level\_NVNT\_ANT1\_1Mbps\_2480





2\_Spurious Emission\_NVNT\_ANT1\_1Mbps\_2480

