



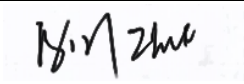
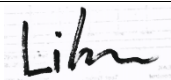
Appendix A

RF Test Data for BLE (Conducted Measurement)

Product Name: Wireless Control Turning Light

Test Model: Cute Eye

Environmental Conditions

Temperature:	21.1 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	
Supervised by:	



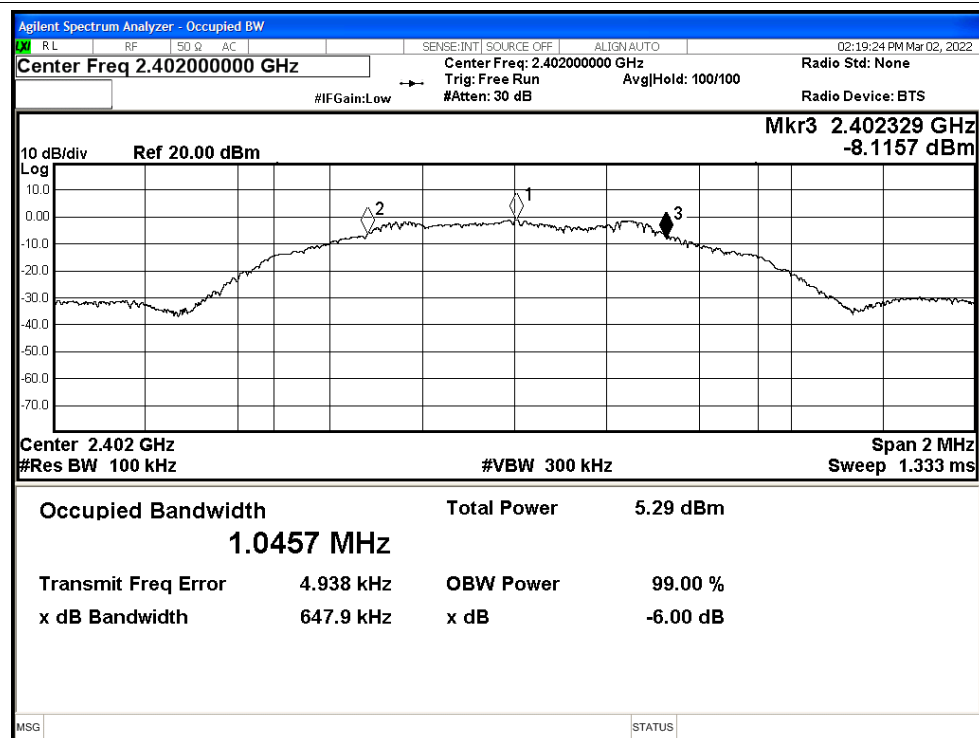
A.1 6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	6 dB Bandwidth (MHz)	Limit 6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant	0.648	0.5	Pass
NVNT	BLE 1M	2440	Ant	0.649	0.5	Pass
NVNT	BLE 1M	2480	Ant	0.655	0.5	Pass

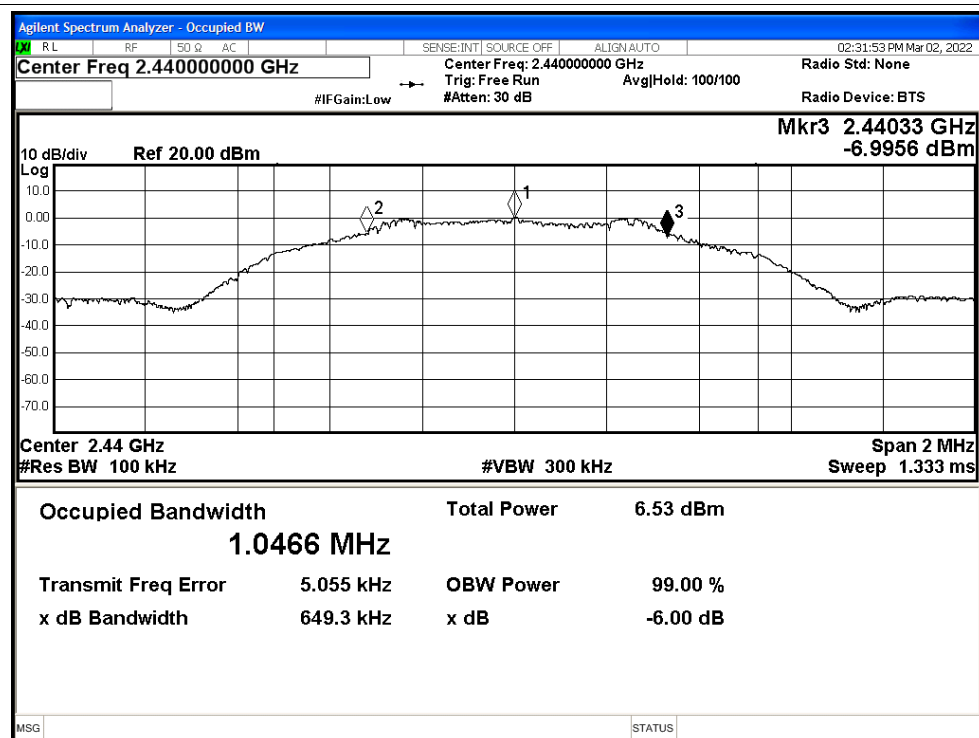


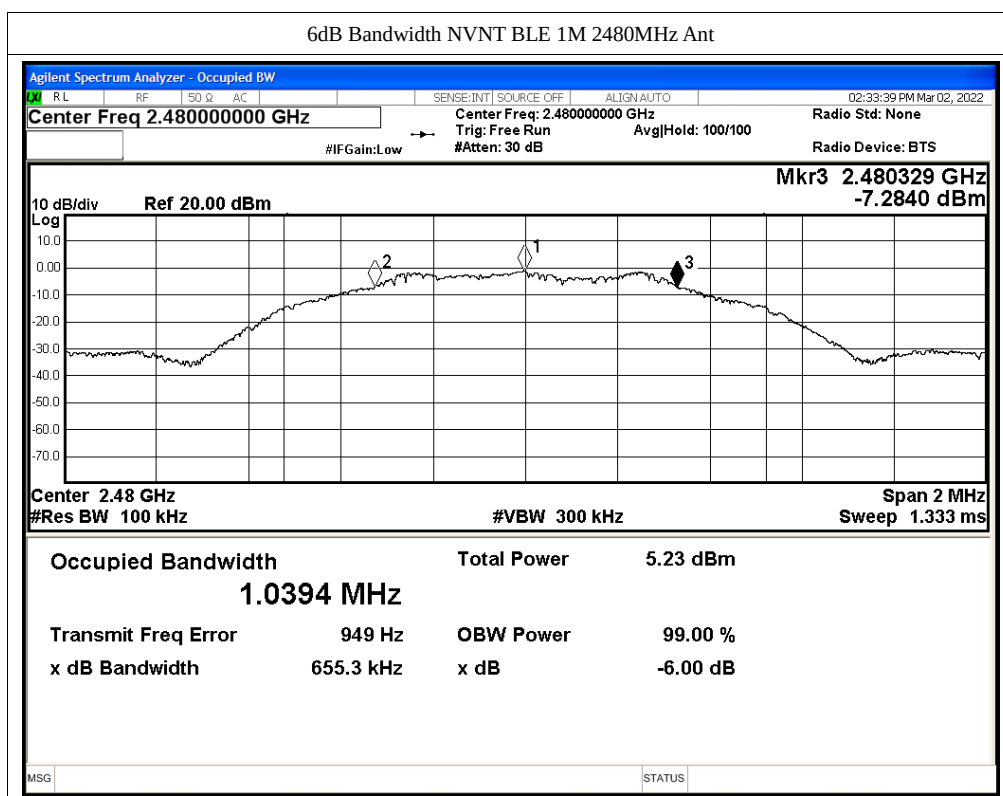
Test Graphs

6dB Bandwidth NVNT BLE 1M 2402MHz Ant



6dB Bandwidth NVNT BLE 1M 2440MHz Ant







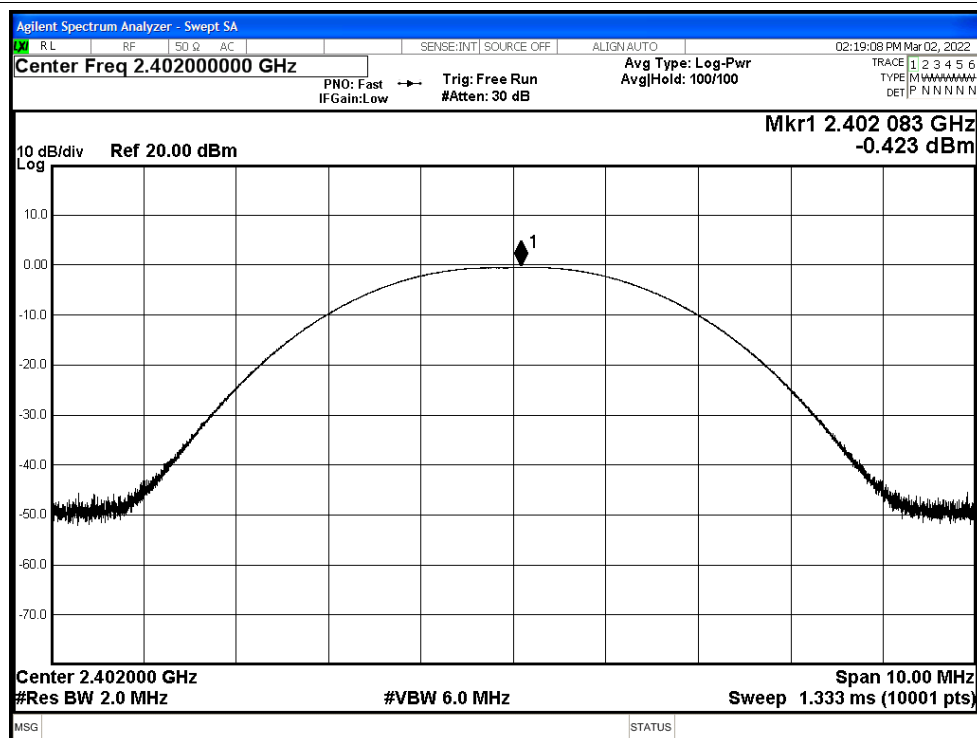
A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant	-0.42	30	Pass
NVNT	BLE 1M	2440	Ant	0.79	30	Pass
NVNT	BLE 1M	2480	Ant	-0.55	30	Pass

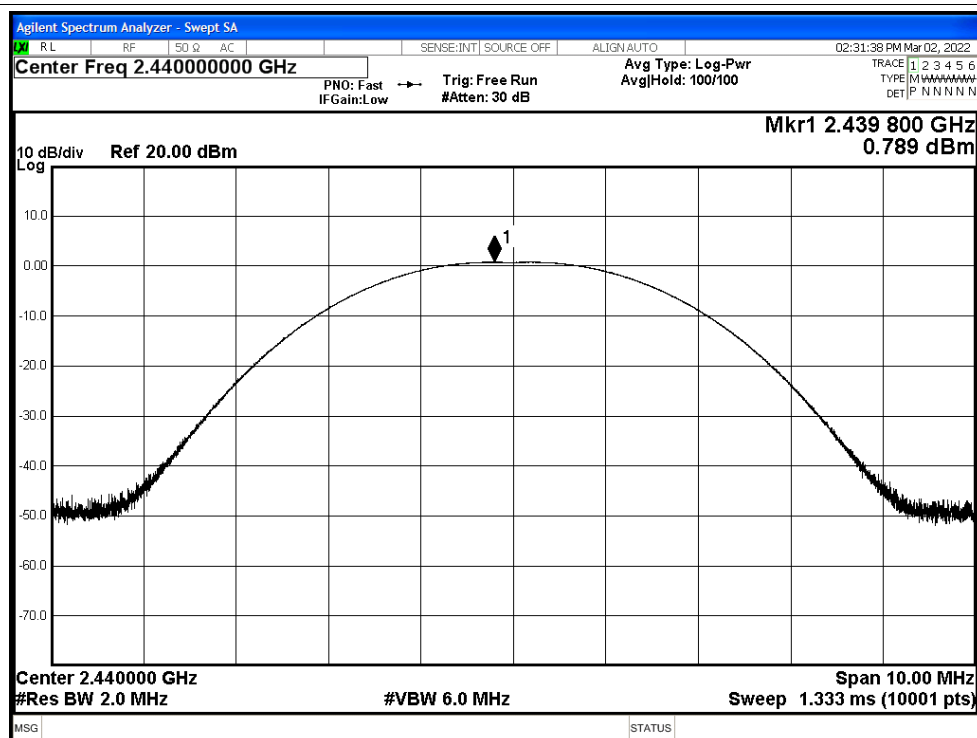


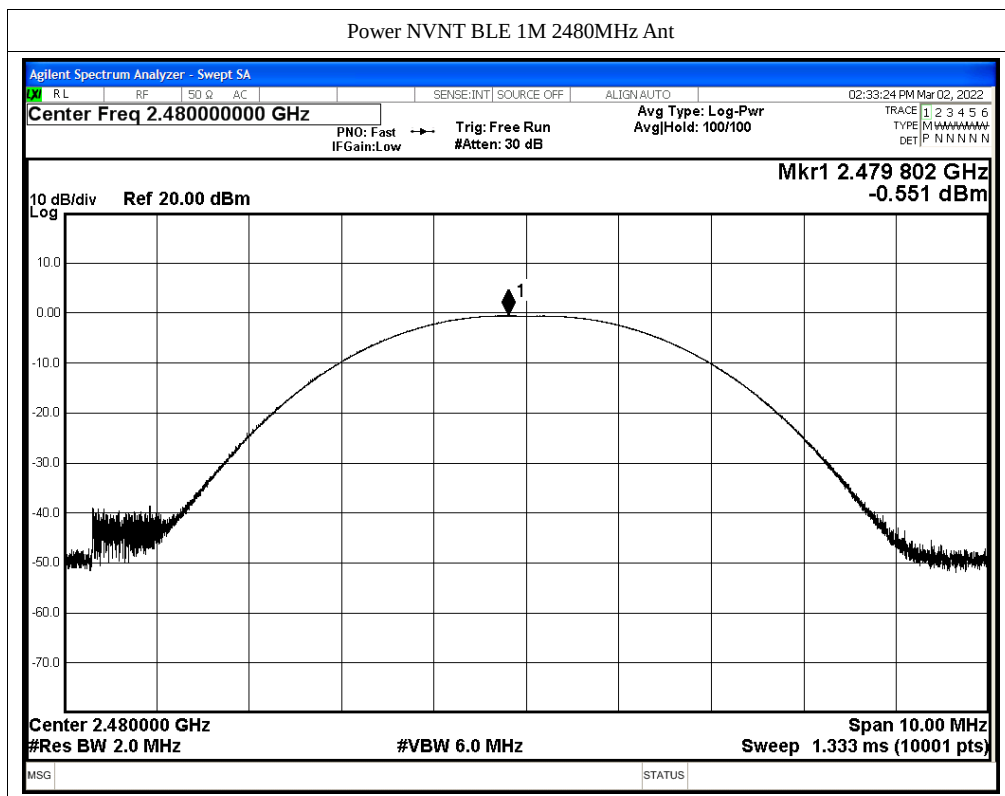
Test Graphs

Power NVNT BLE 1M 2402MHz Ant



Power NVNT BLE 1M 2440MHz Ant







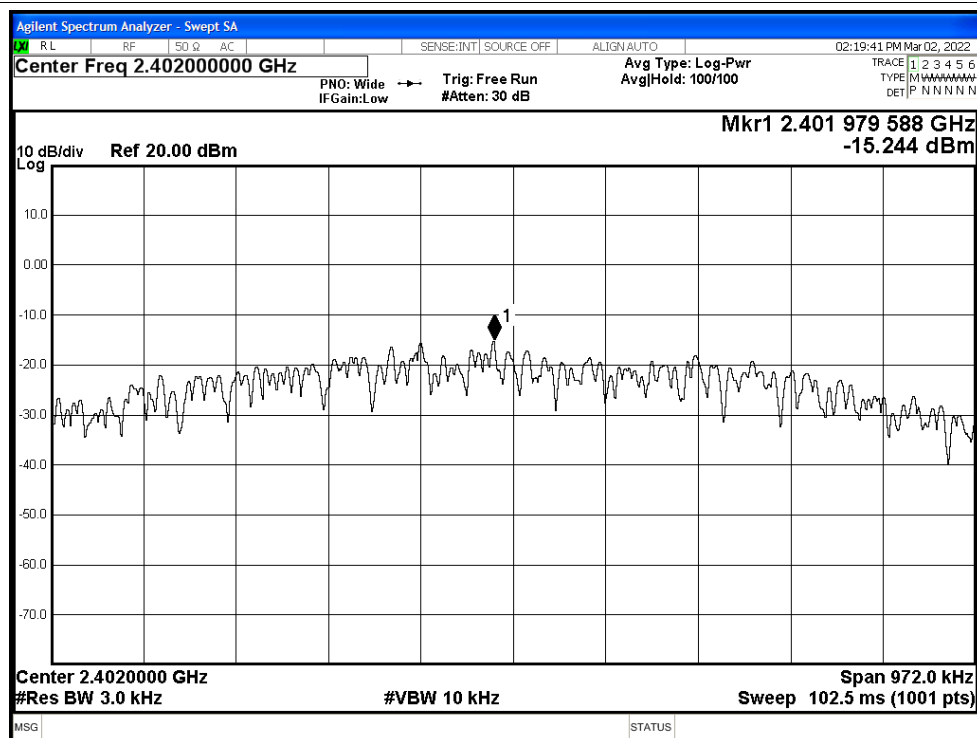
A.3 Maximum power spectral density

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant	-15.24	0	-15.24	8	Pass
NVNT	BLE 1M	2440	Ant	-13.96	0	-13.96	8	Pass
NVNT	BLE 1M	2480	Ant	-15.34	0	-15.34	8	Pass

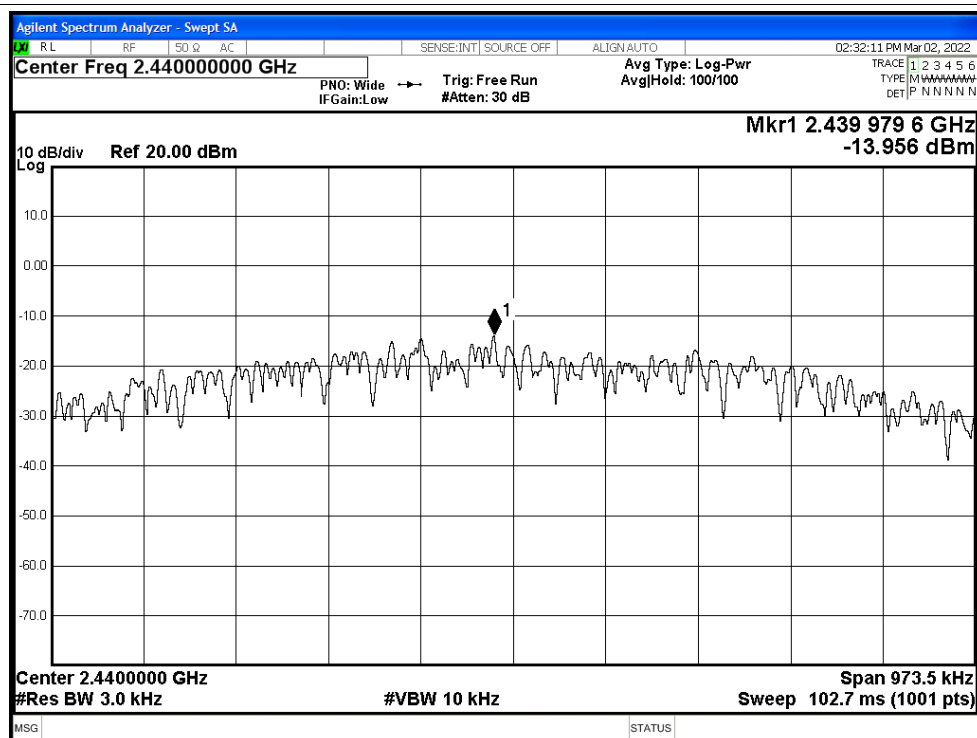


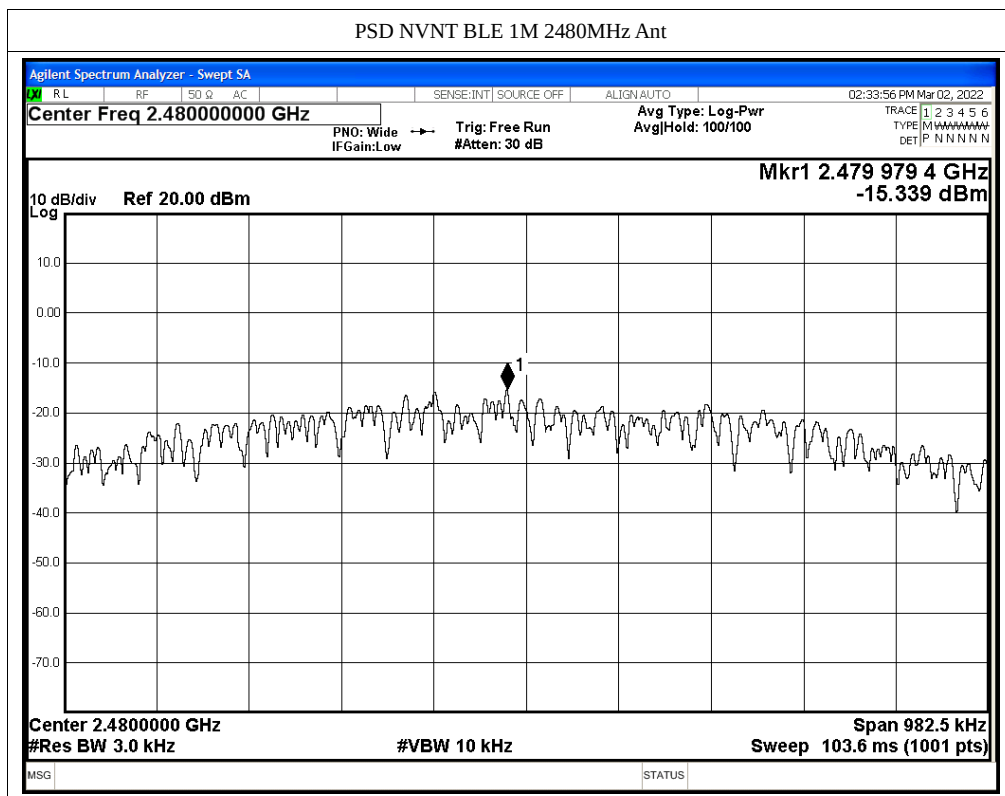
Test Graphs

PSD NVNT BLE 1M 2402MHz Ant



PSD NVNT BLE 1M 2440MHz Ant







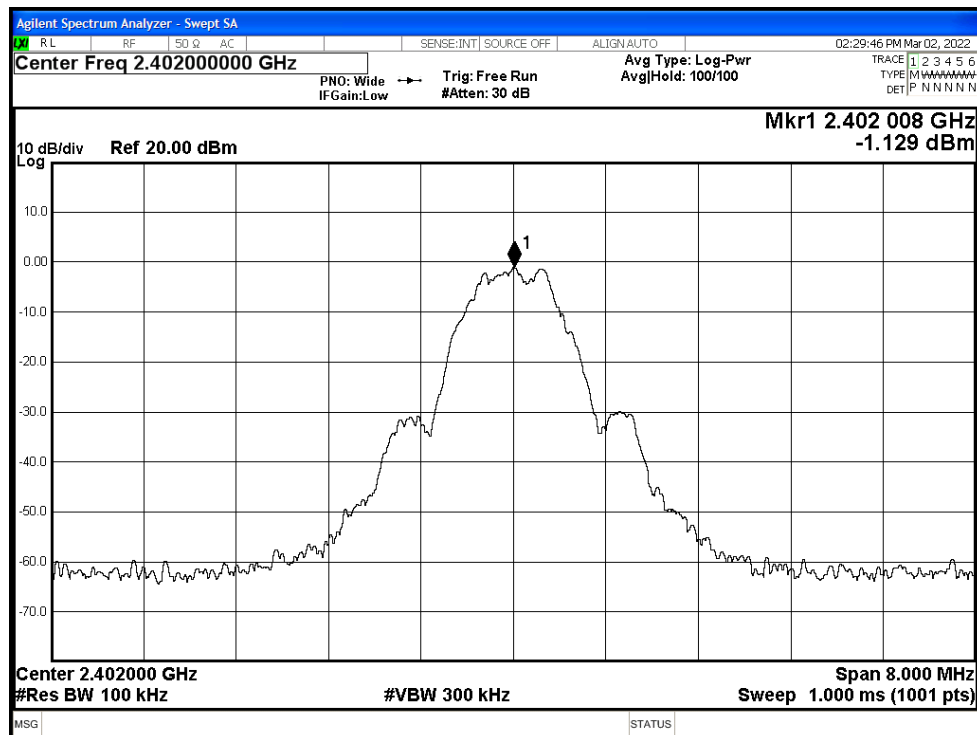
A.4 Band edge measurements

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant	-57.21	-20	Pass
NVNT	BLE 1M	2480	Ant	-57.61	-20	Pass

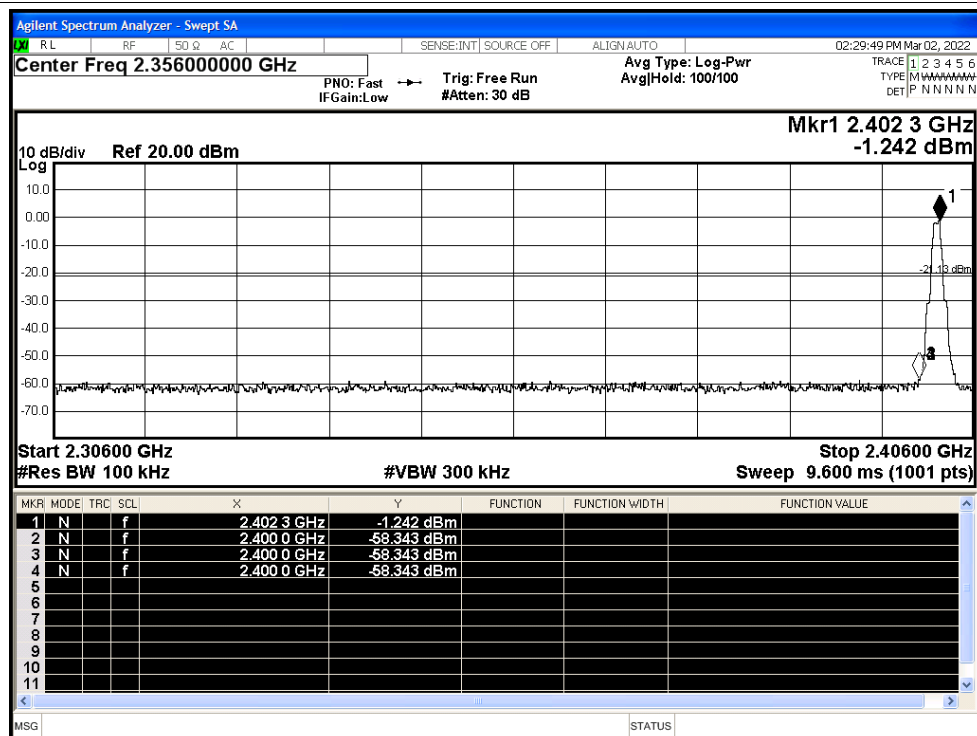


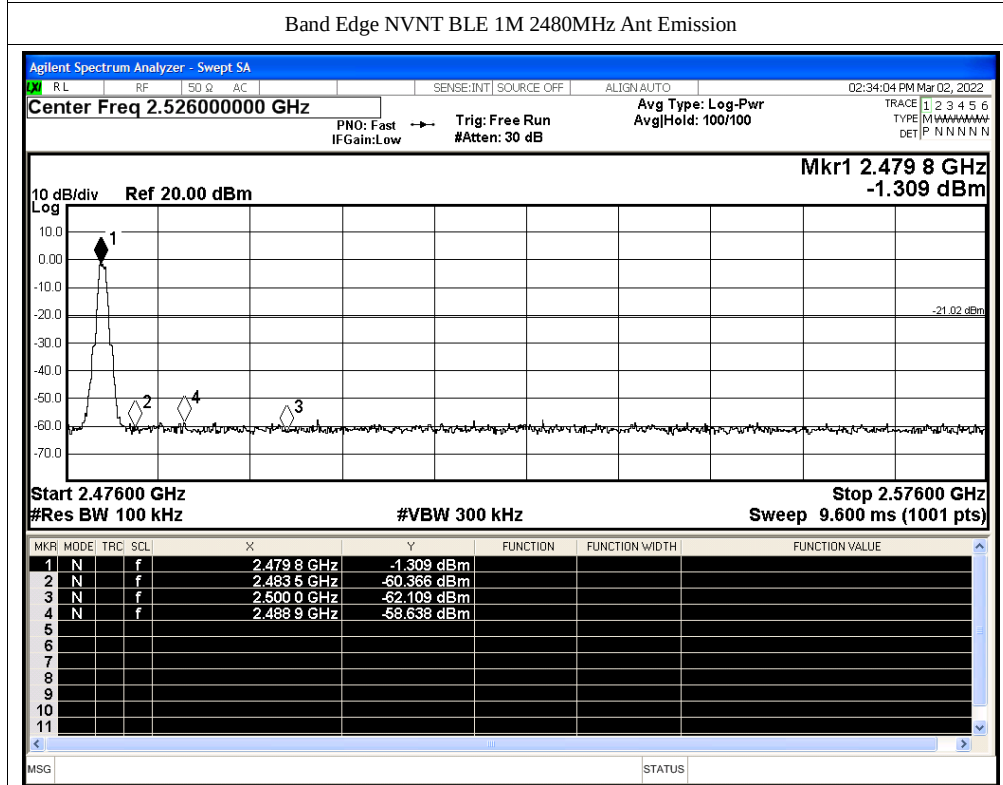
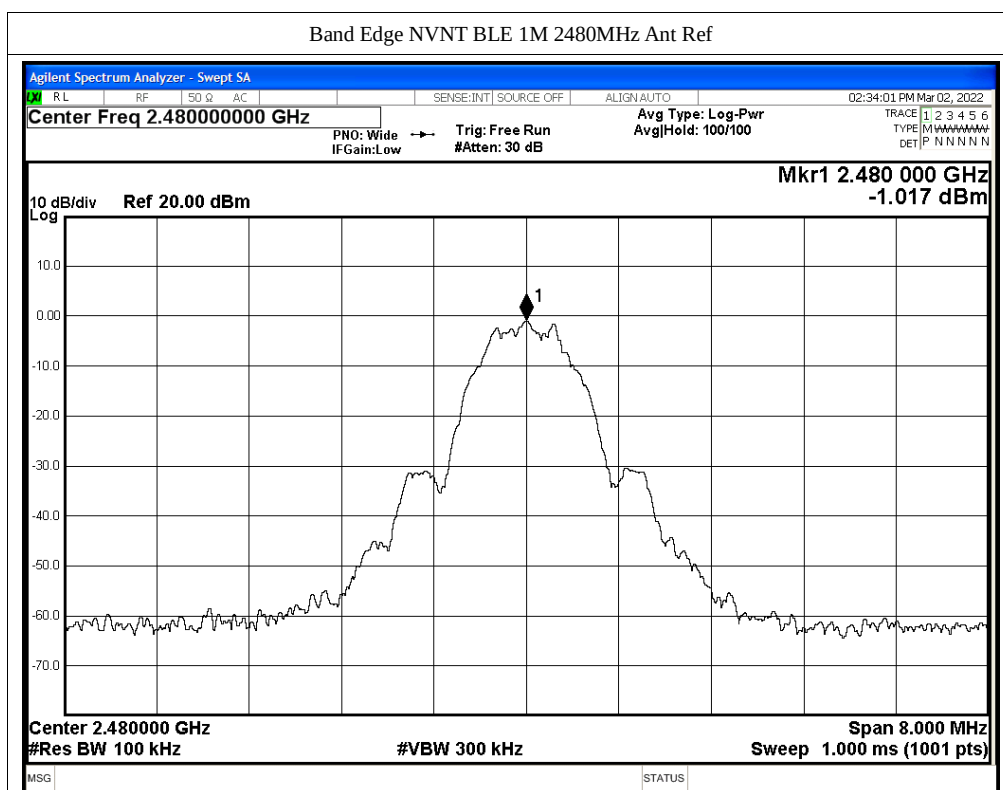
Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant Ref



Band Edge NVNT BLE 1M 2402MHz Ant Emission







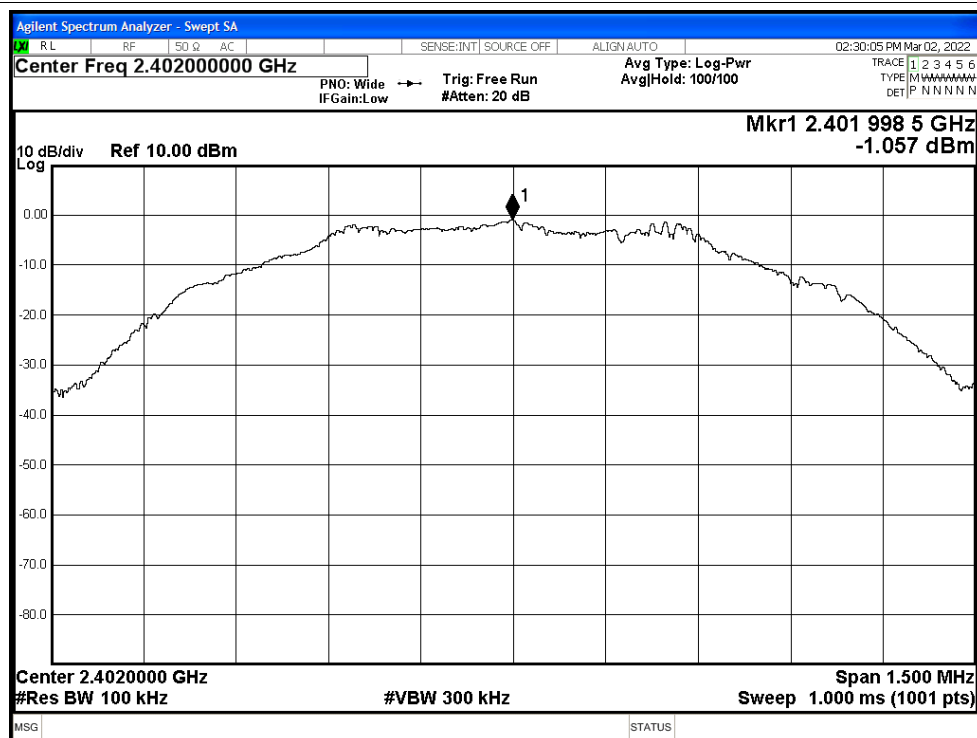
A.5 Conducted Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant	-56.58	-20	Pass
NVNT	BLE 1M	2440	Ant	-58.14	-20	Pass
NVNT	BLE 1M	2480	Ant	-56.04	-20	Pass

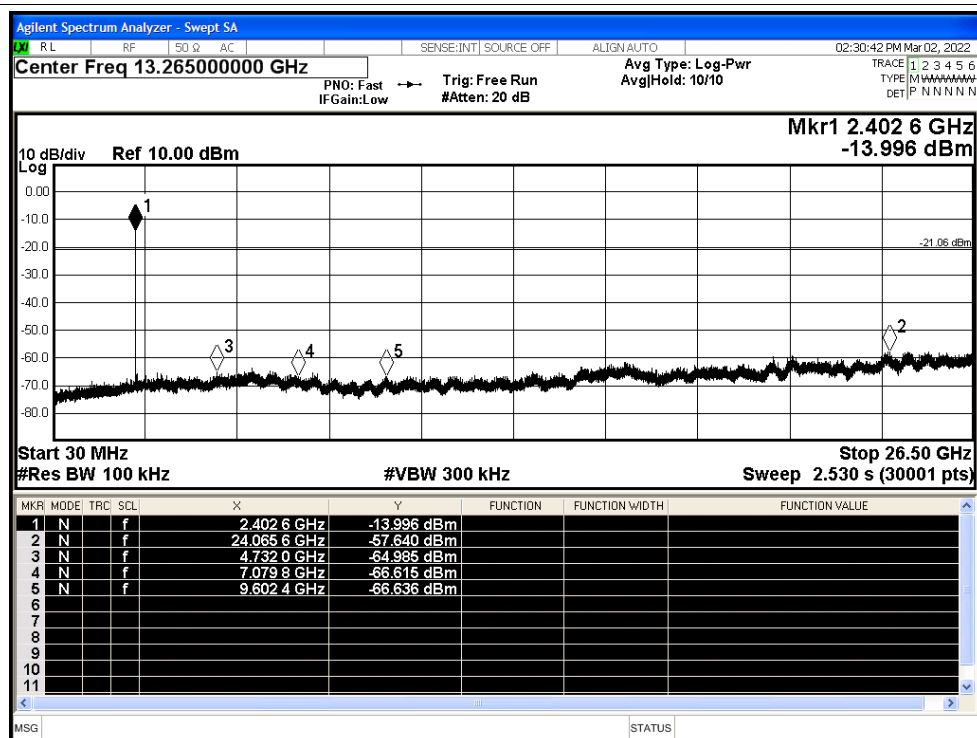


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant Ref

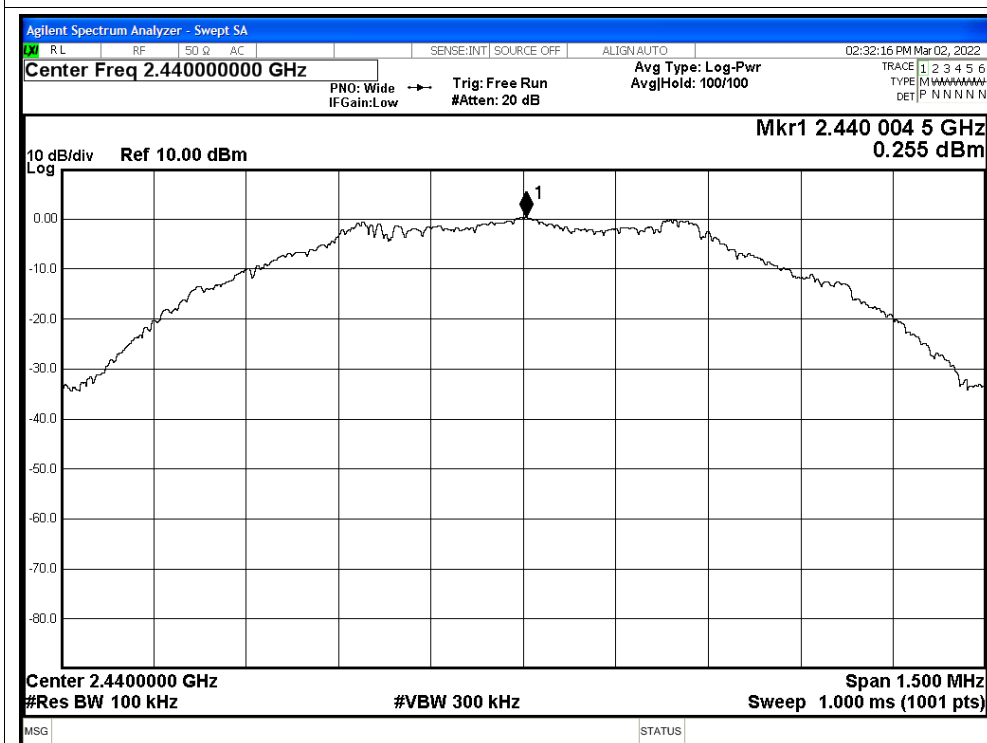


Tx. Spurious NVNT BLE 1M 2402MHz Ant Emission

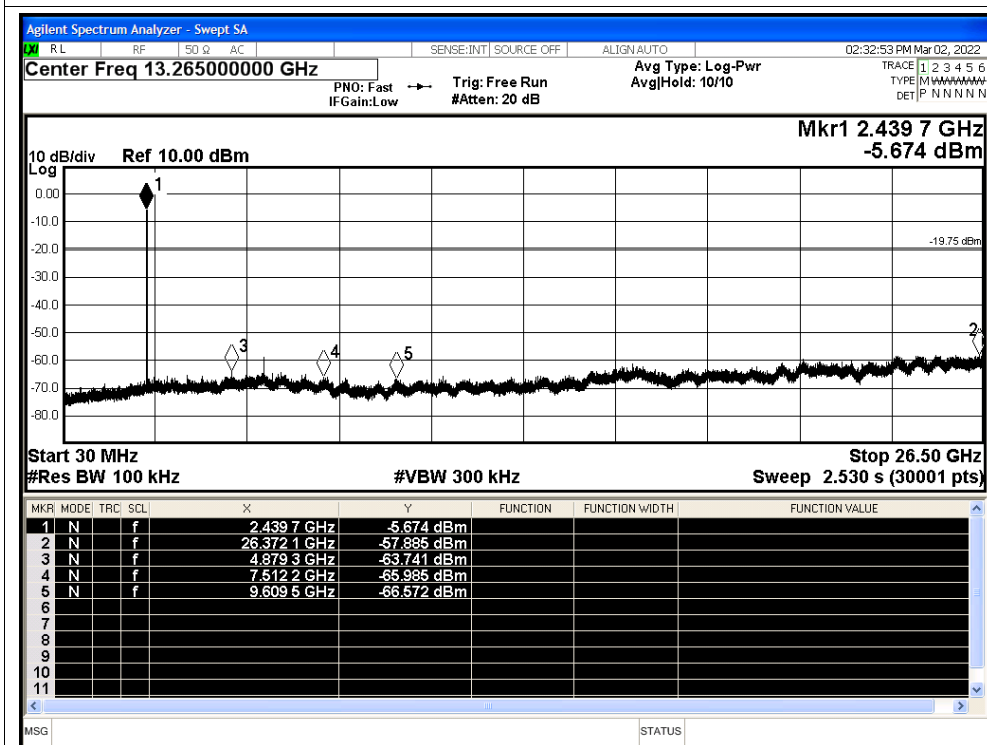




Tx. Spurious NVNT BLE 1M 2440MHz Ant Ref

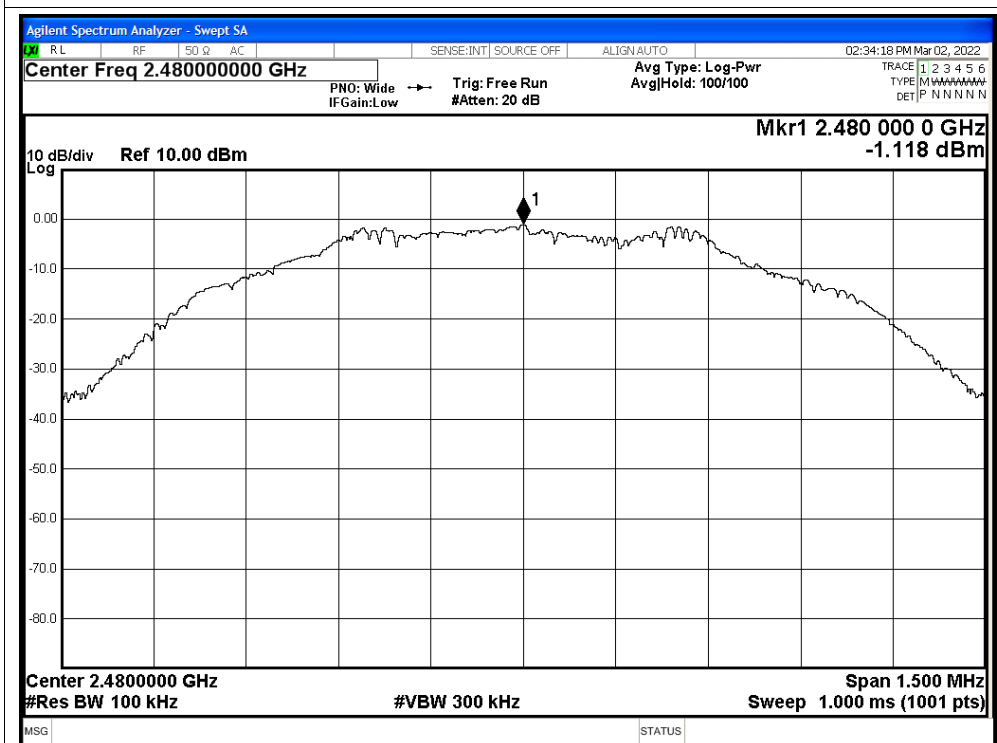


Tx. Spurious NVNT BLE 1M 2440MHz Ant Emission

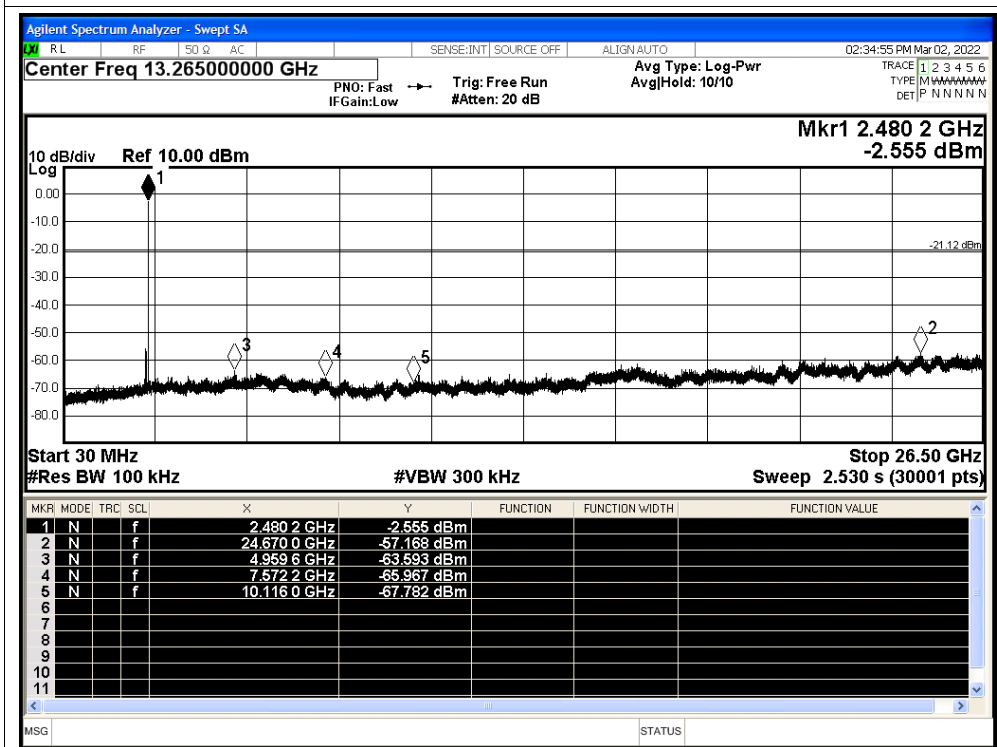




Tx. Spurious NVNT BLE 1M 2480MHz Ant Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant Emission





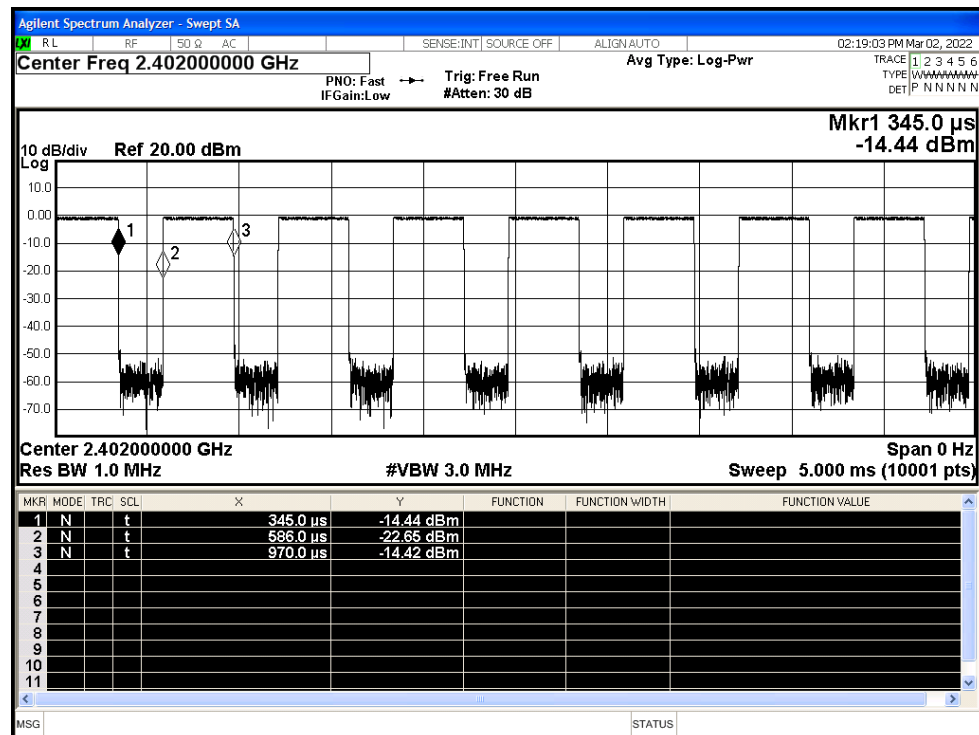
A.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant	61.44	2.12	2.6
NVNT	BLE 1M	2440	Ant	61.44	2.12	2.6
NVNT	BLE 1M	2480	Ant	61.44	2.12	2.6

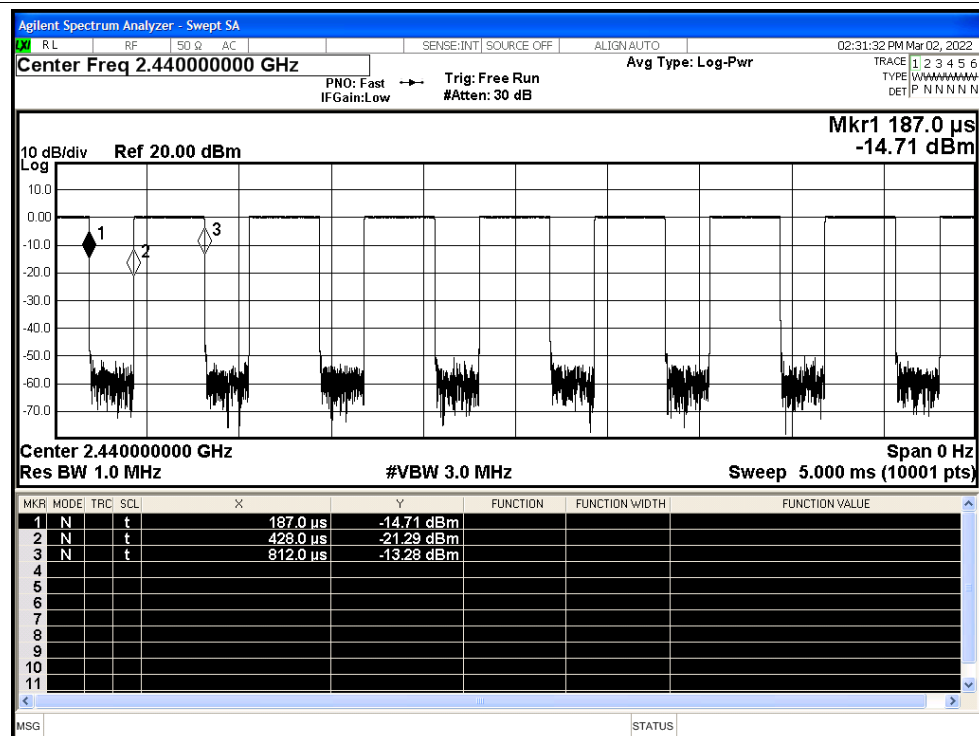


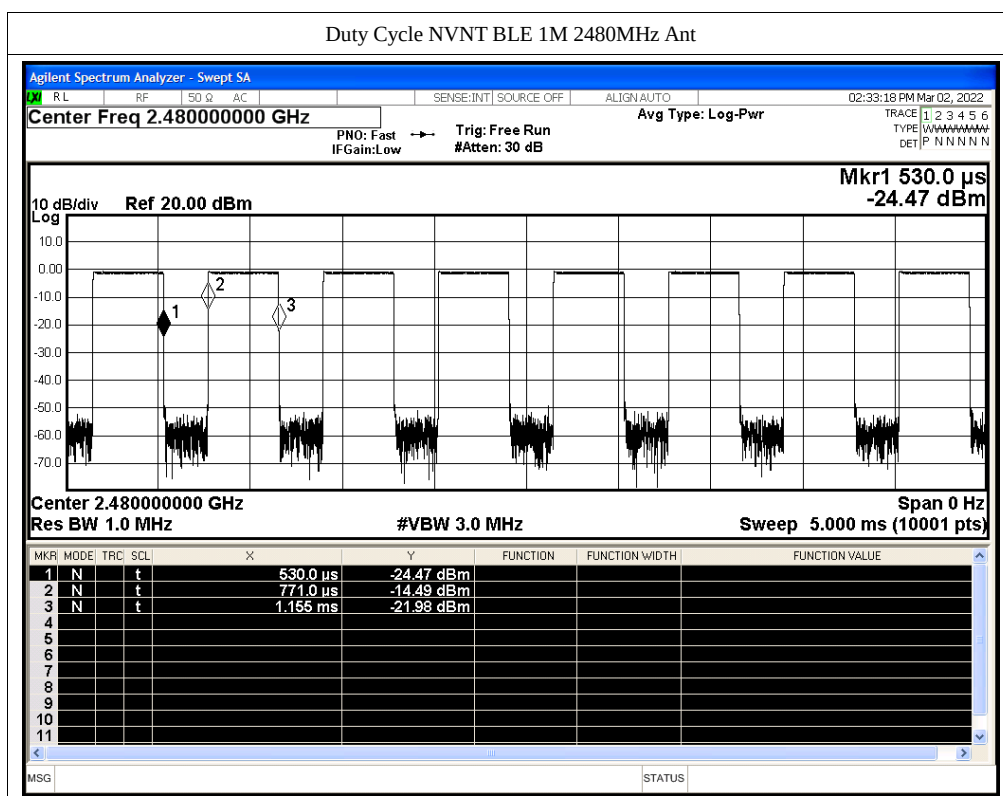
Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant



Duty Cycle NVNT BLE 1M 2440MHz Ant







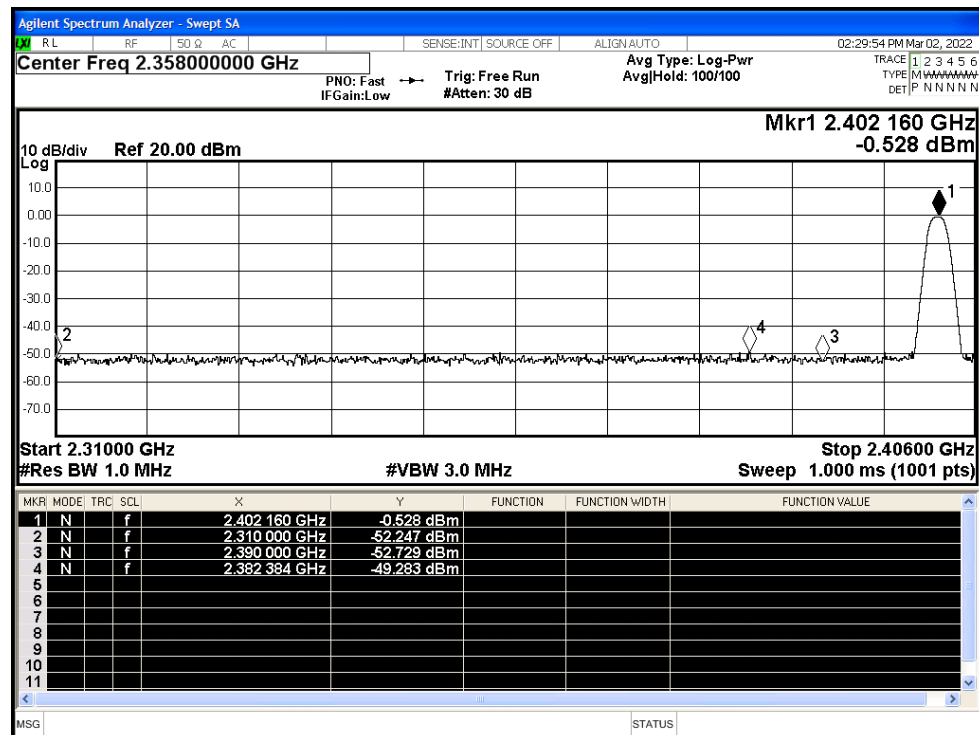
A.7 Emissions in Restricted Bands

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant	2310	-52.24	2	45.02	Peak	74	Pass
NVNT	BLE 1M	2402	Ant	2310	-61.16	2	36.1	Average	54	Pass
NVNT	BLE 1M	2402	Ant	2382.384	-49.28	2	47.98	Peak	74	Pass
NVNT	BLE 1M	2402	Ant	2374.896	-60.43	2	36.83	Average	54	Pass
NVNT	BLE 1M	2402	Ant	2390	-52.05	2	45.21	Peak	74	Pass
NVNT	BLE 1M	2402	Ant	2390	-60.93	2	36.33	Average	54	Pass
NVNT	BLE 1M	2480	Ant	2483.5	-51.66	2	45.6	Peak	74	Pass
NVNT	BLE 1M	2480	Ant	2483.5	-60.72	2	36.54	Average	54	Pass
NVNT	BLE 1M	2480	Ant	2491.648	-48.77	2	48.49	Peak	74	Pass
NVNT	BLE 1M	2480	Ant	2483.68	-60.02	2	37.24	Average	54	Pass
NVNT	BLE 1M	2480	Ant	2500	-51.79	2	45.47	Peak	74	Pass
NVNT	BLE 1M	2480	Ant	2500	-60.82	2	36.44	Average	54	Pass

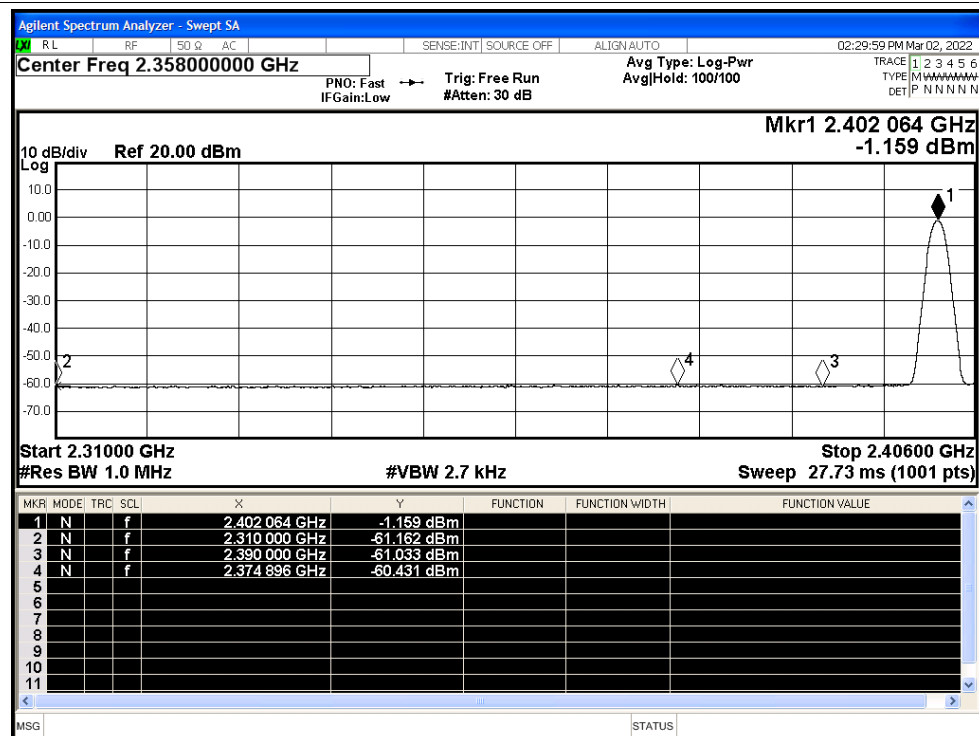


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant Peak

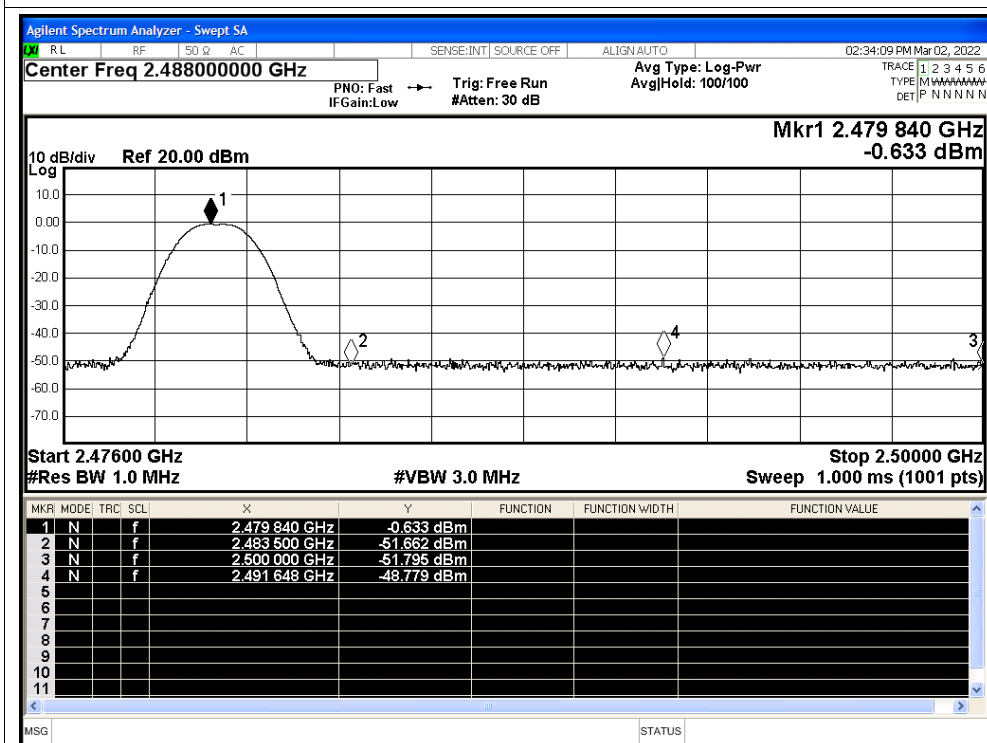


Restrict Band NVNT BLE 1M 2402MHz Ant Average





Restrict Band NVNT BLE 1M 2480MHz Ant Peak



Restrict Band NVNT BLE 1M 2480MHz Ant Average

