

Appendix A

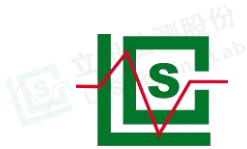
RF Test Data for BLE (Conducted Measurement)

Product Name: LED Down Light
Test Model: US-GL6A-1

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling.zhu
Supervised by:	Libin

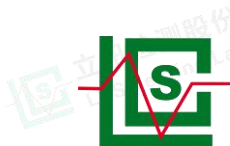




A.1 6dB Bandwidth

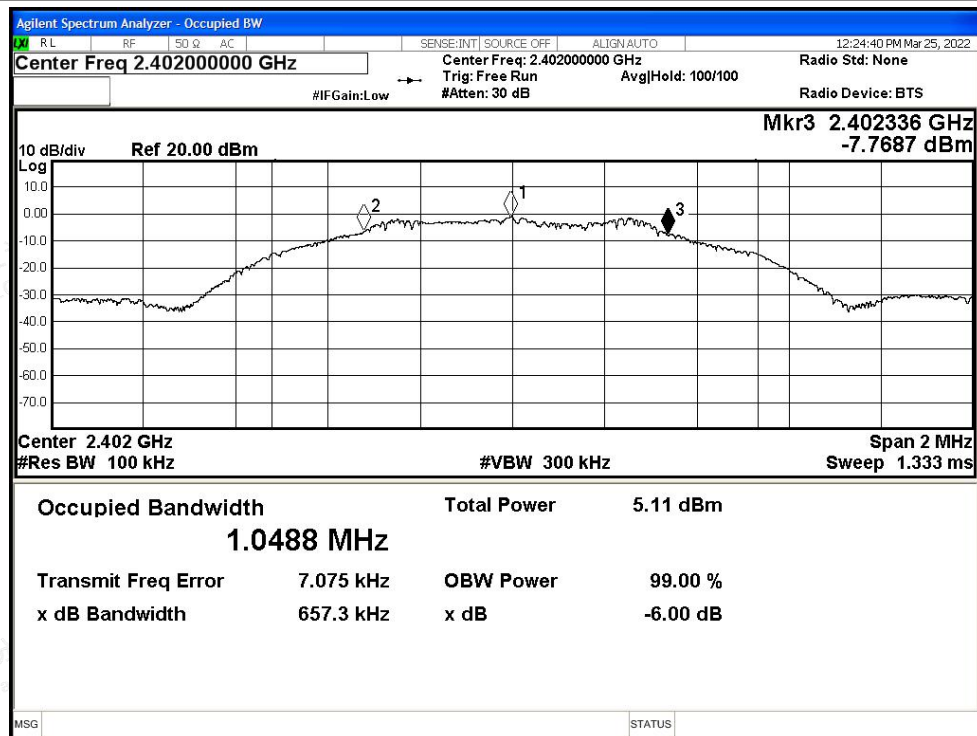
Condition	Mode	Frequency (MHz)	Antenna	6 dB Bandwidth (MHz)	Limit 6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.657	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.659	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.654	0.5	Pass



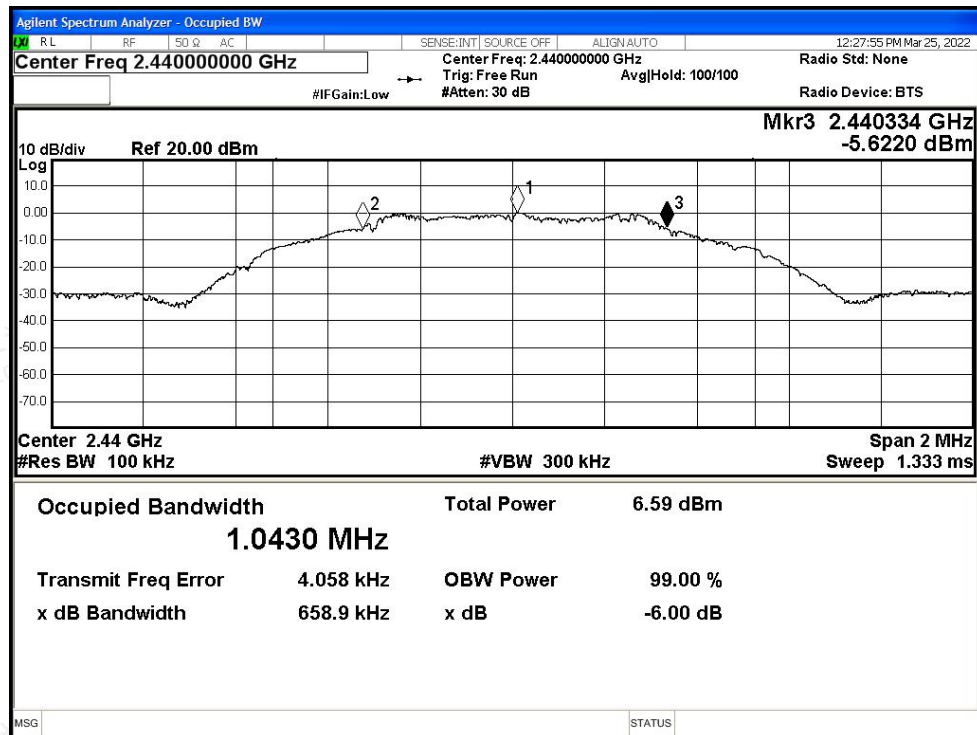


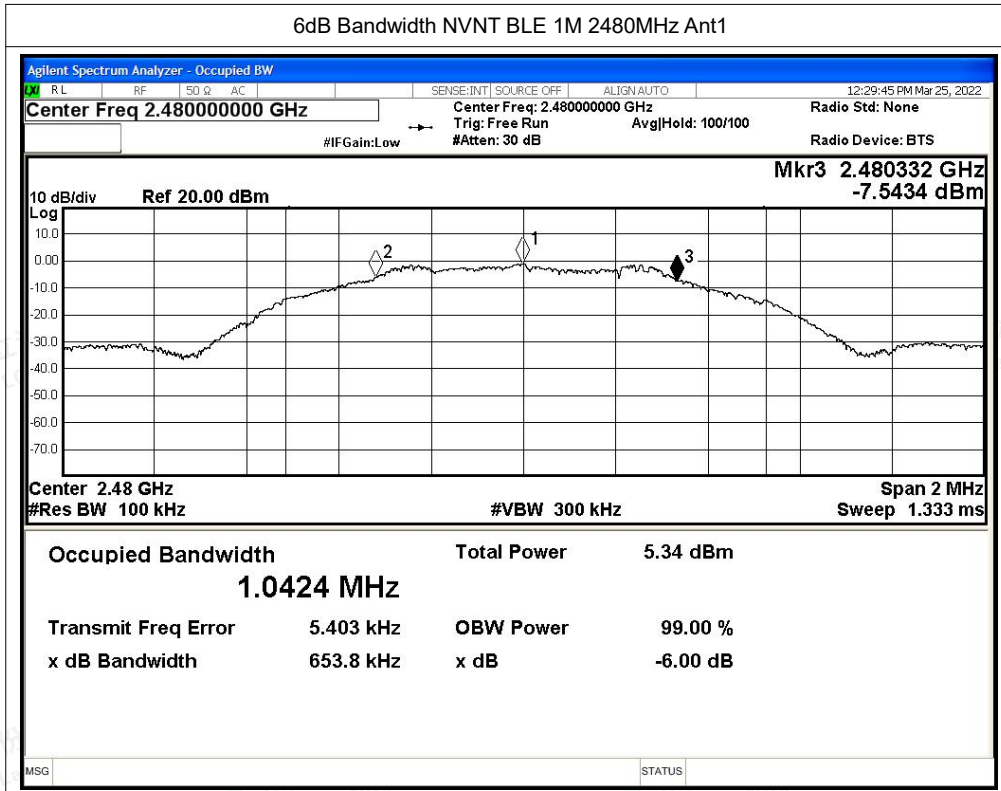
Test Graphs

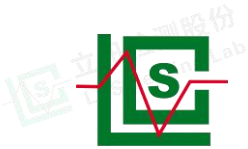
6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



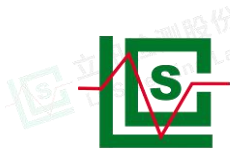




A.2 Maximum Conducted Output Power

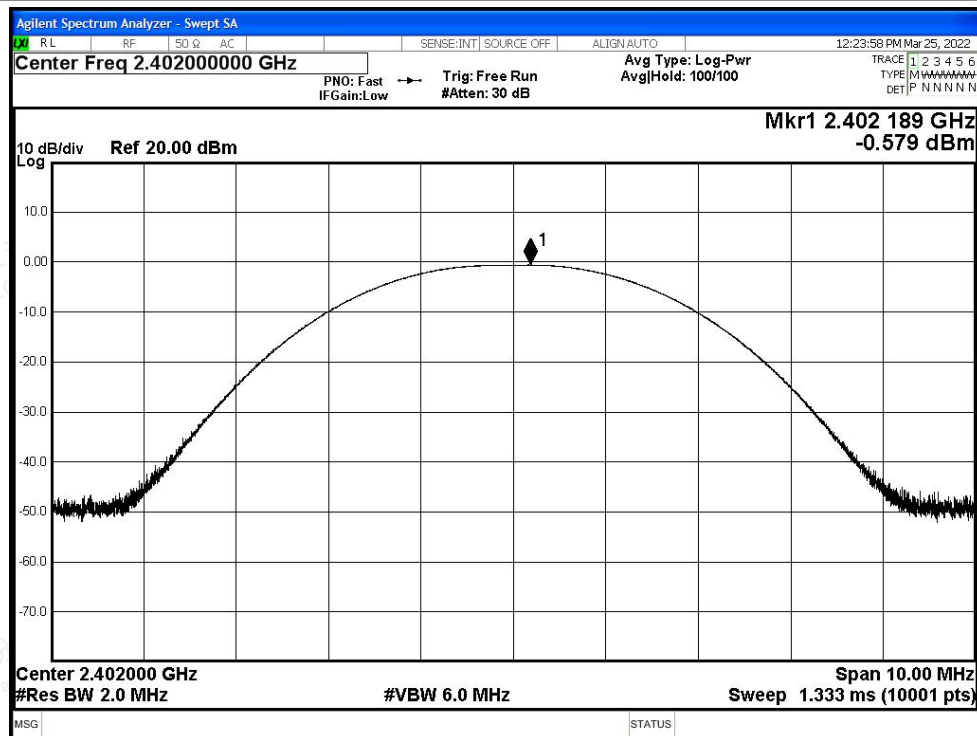
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-0.58	0	-0.58	30	Pass
NVNT	BLE 1M	2440	Ant1	0.85	0	0.85	30	Pass
NVNT	BLE 1M	2480	Ant1	-0.44	0	-0.44	30	Pass



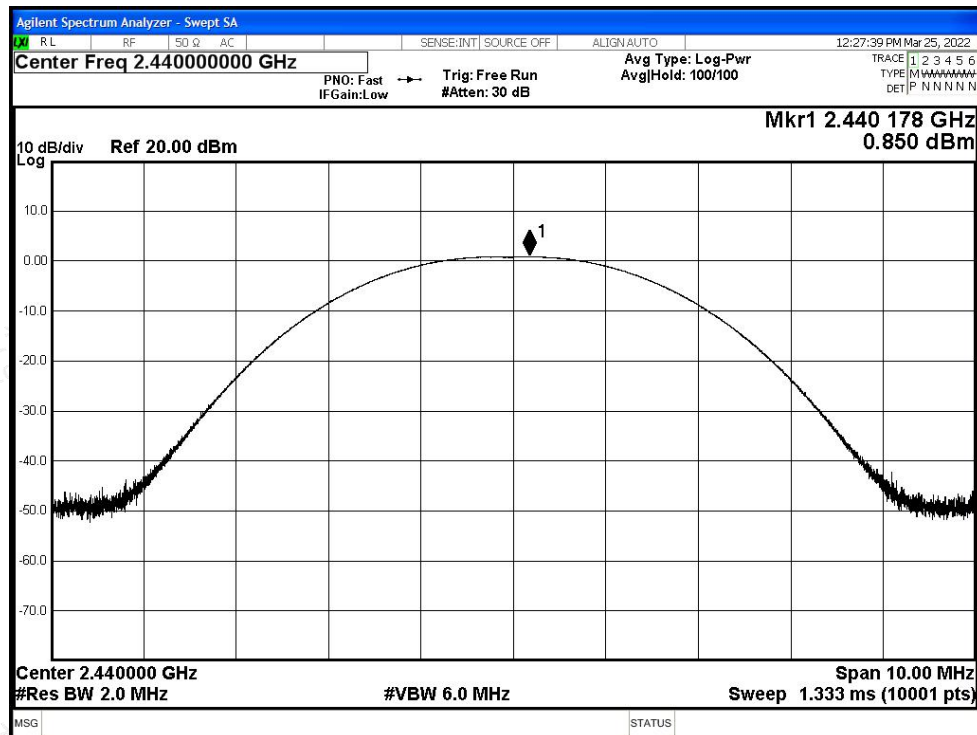


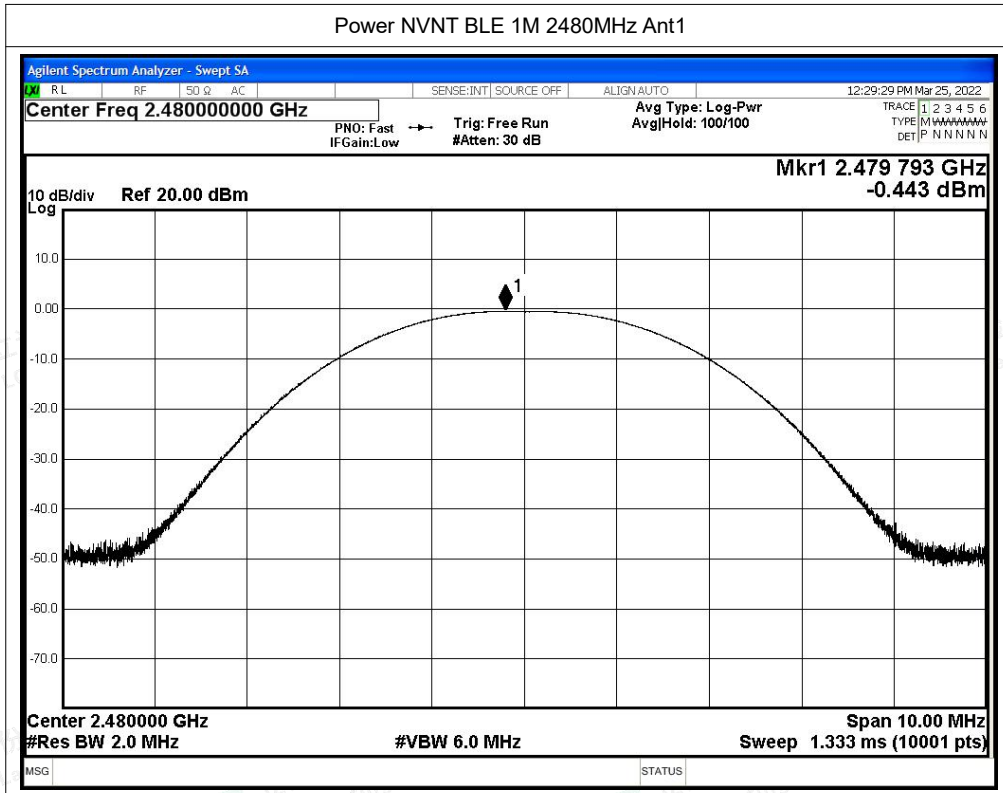
Test Graphs

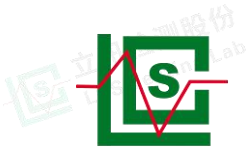
Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1



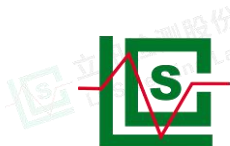




A.3 Maximum Power Spectral Density

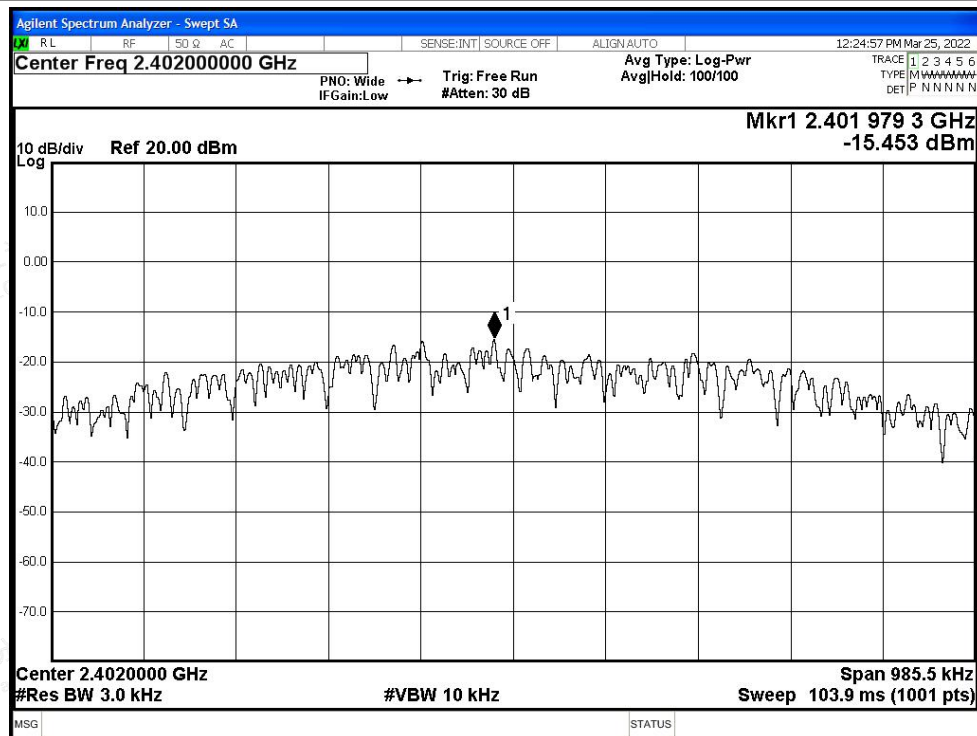
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-15.45	0	-15.45	8	Pass
NVNT	BLE 1M	2440	Ant1	-13.95	0	-13.95	8	Pass
NVNT	BLE 1M	2480	Ant1	-15.25	0	-15.25	8	Pass



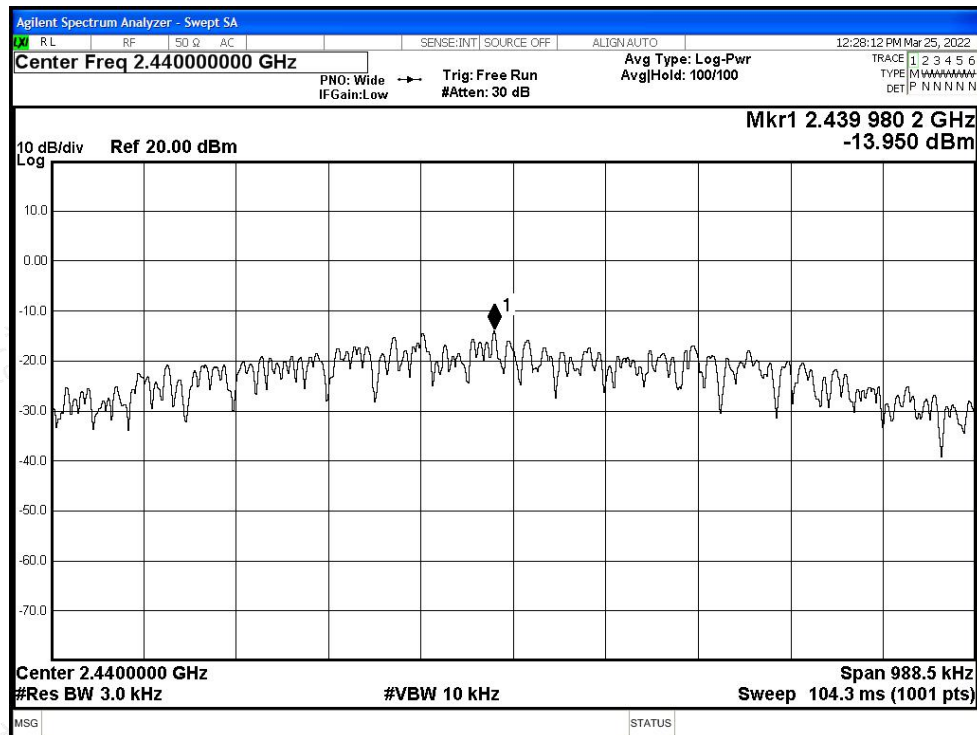


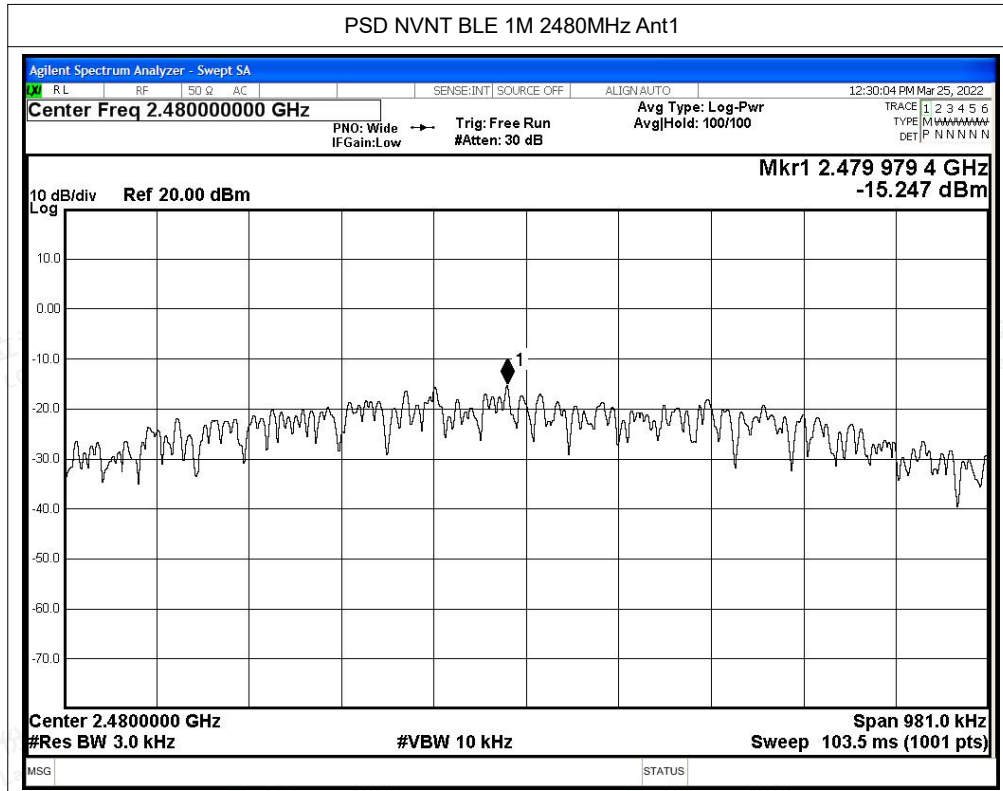
Test Graphs

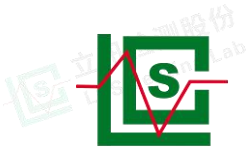
PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1



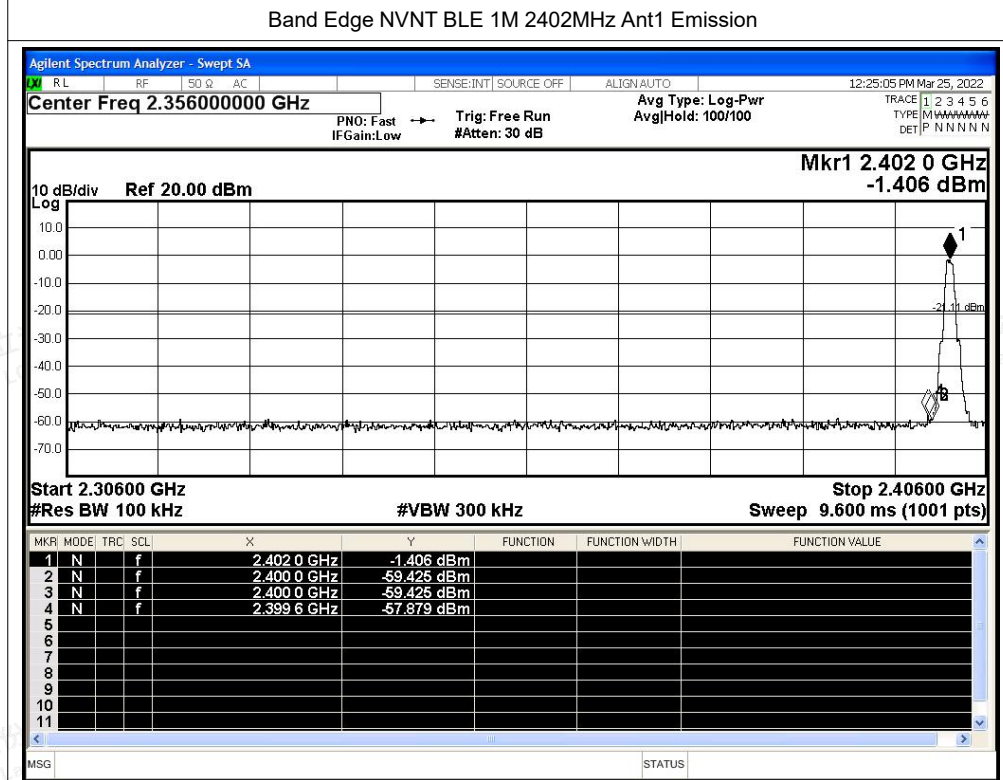
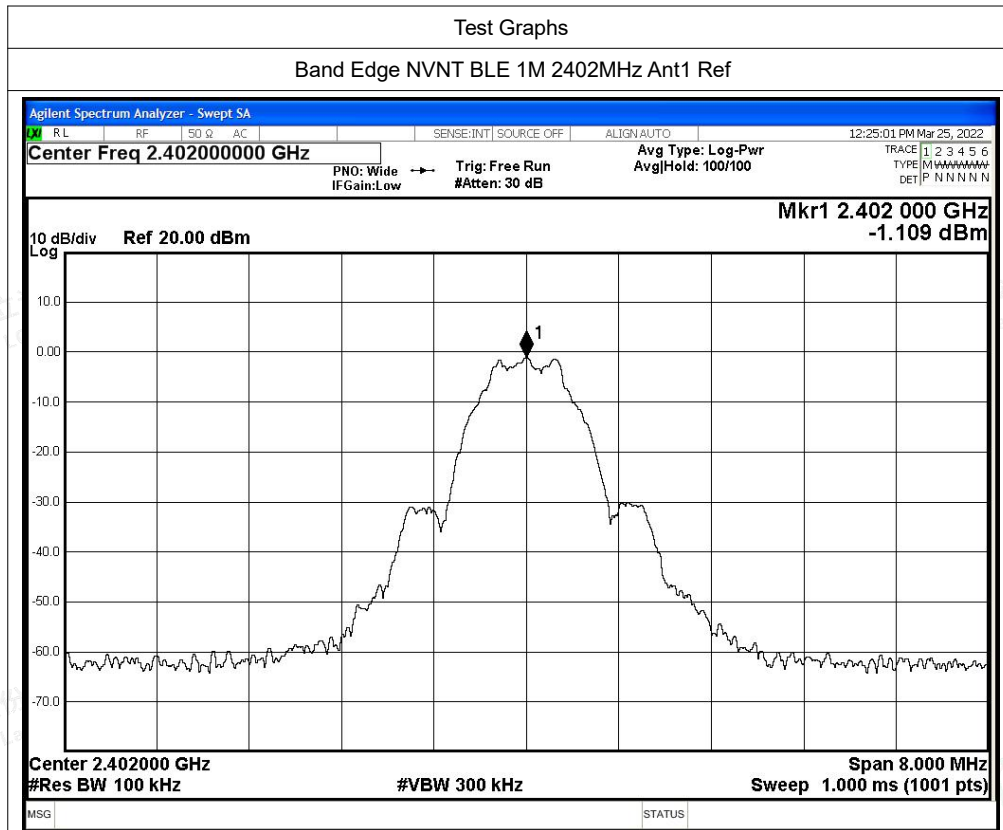
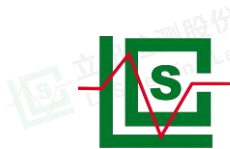


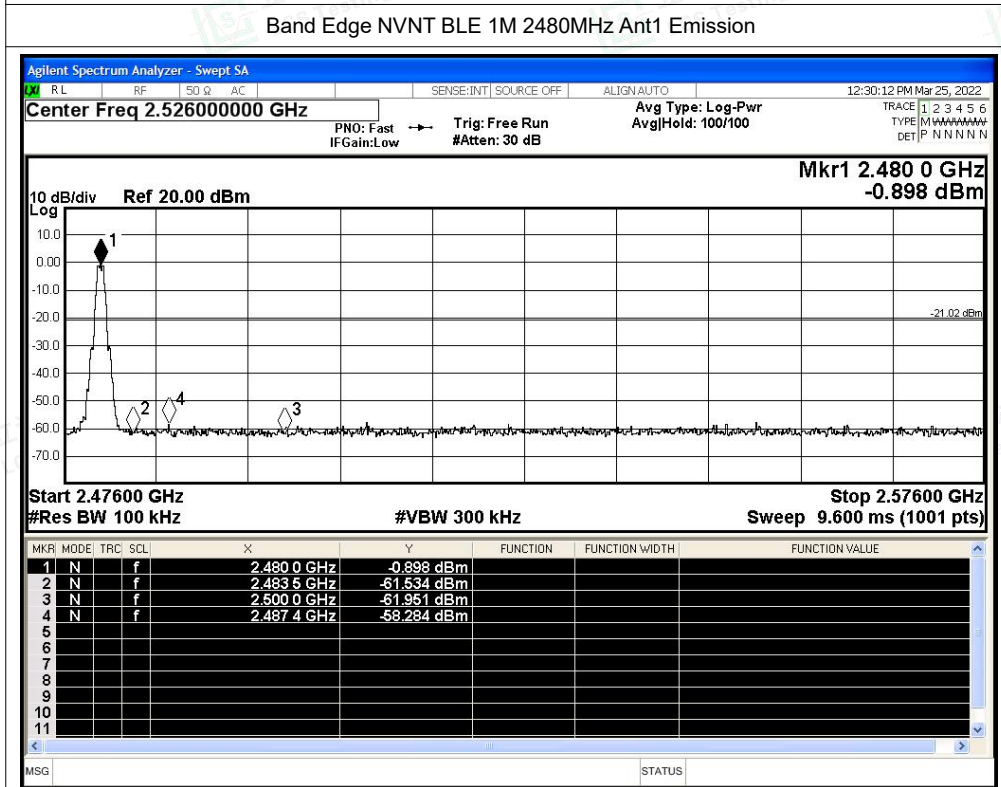
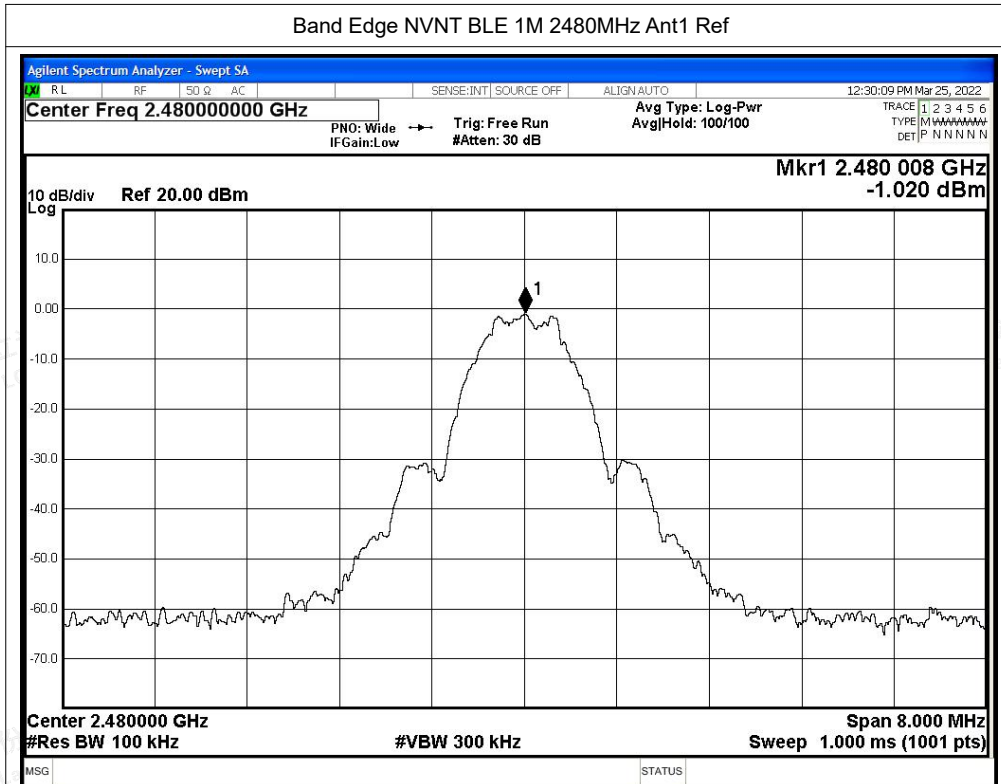


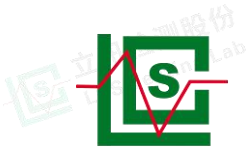
A.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-56.76	-20	Pass
NVNT	BLE 1M	2480	Ant1	-57.26	-20	Pass





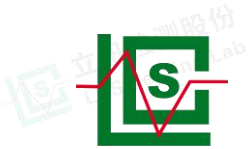




A.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-55.76	-20	Pass
NVNT	BLE 1M	2440	Ant1	-57.44	-20	Pass
NVNT	BLE 1M	2480	Ant1	-42.26	-20	Pass

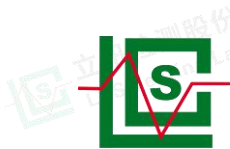




A.6 Duty Cycle

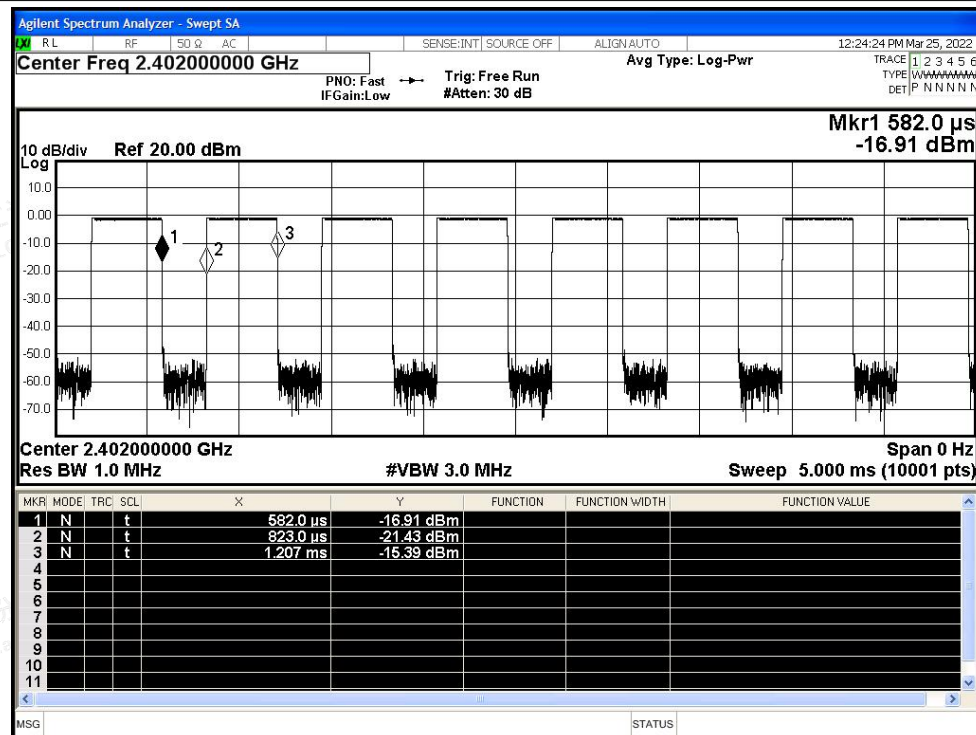
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	61.44	2.12	2.6
NVNT	BLE 1M	2440	Ant1	61.44	2.12	2.6
NVNT	BLE 1M	2480	Ant1	61.44	2.12	2.6



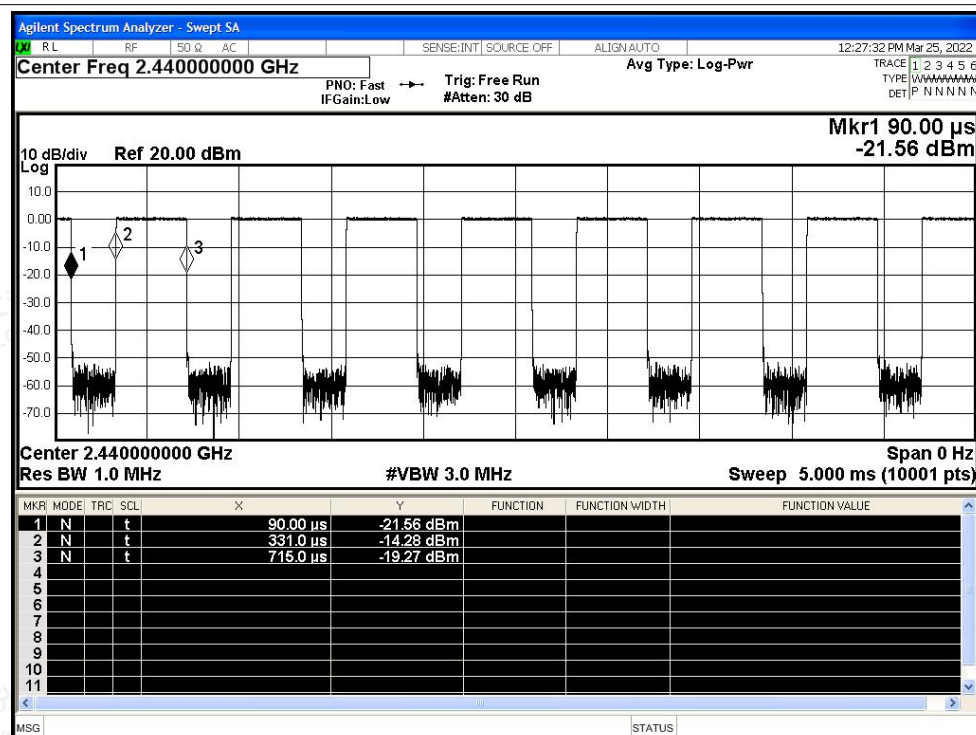


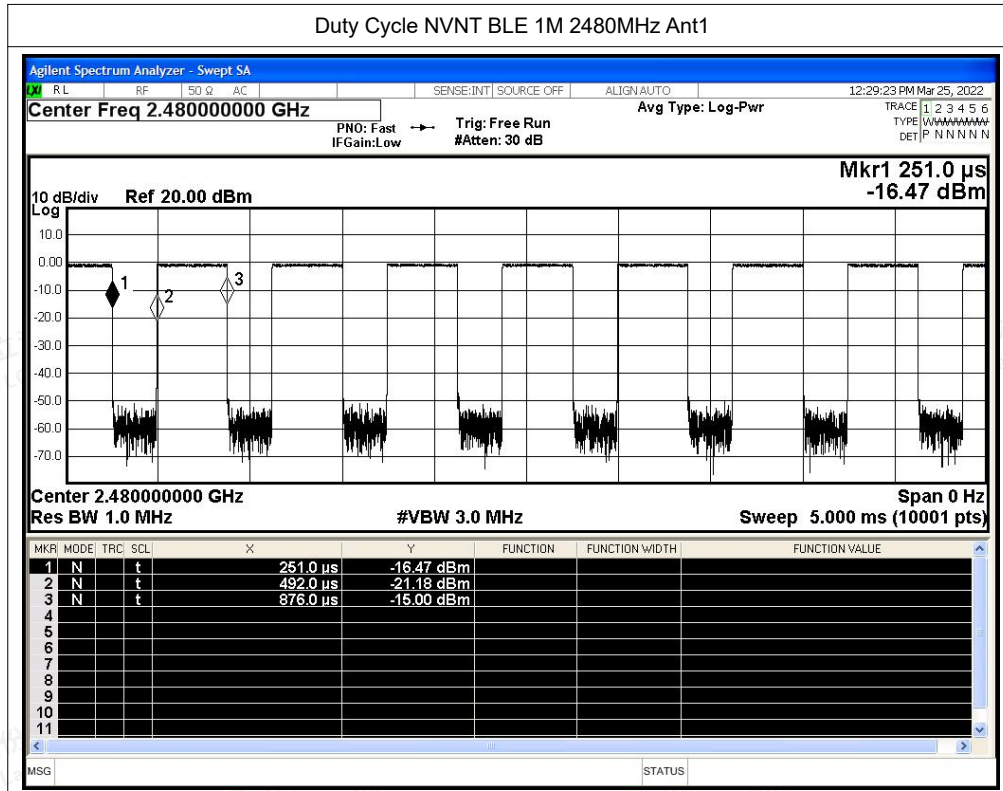
Test Graphs

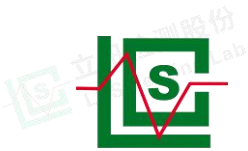
Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1







A.7 Emissions at Restricted Band

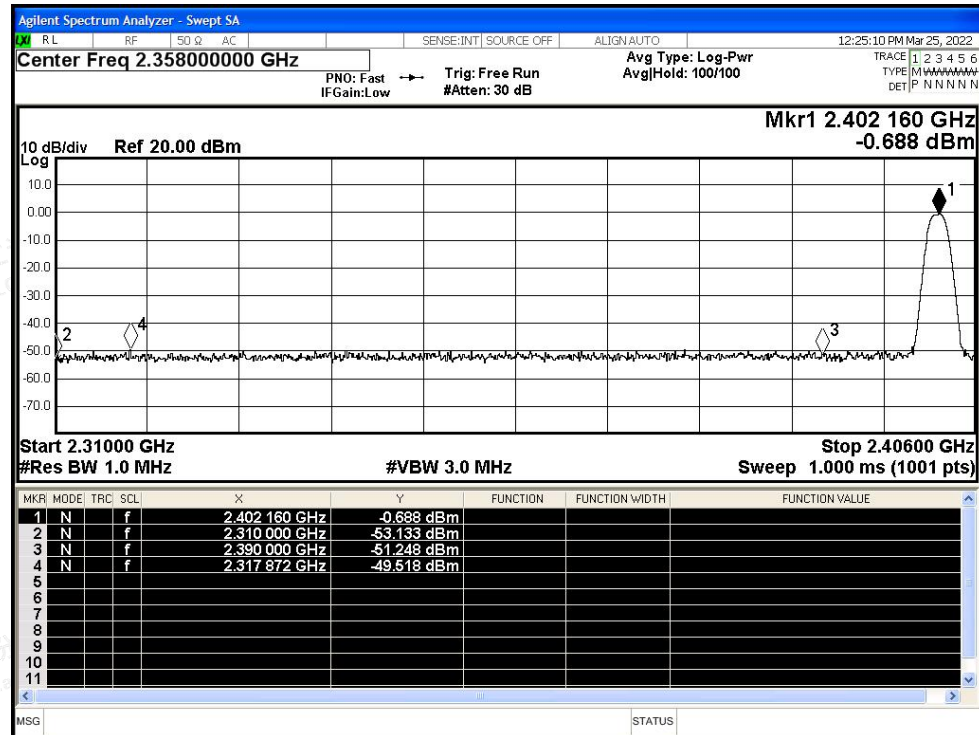
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-53.13	2	44.13	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-61.38	2	35.88	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2317.872	-49.51	2	47.75	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2360.016	-60.51	2	36.75	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-51.29	2	45.97	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-60.95	2	36.31	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-52.62	2	44.64	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-60.62	2	36.64	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2492.728	-48.85	2	48.41	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2485.936	-60.29	2	36.97	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-52.09	2	45.17	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-60.9	2	36.36	Average	54	Pass





Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average

