

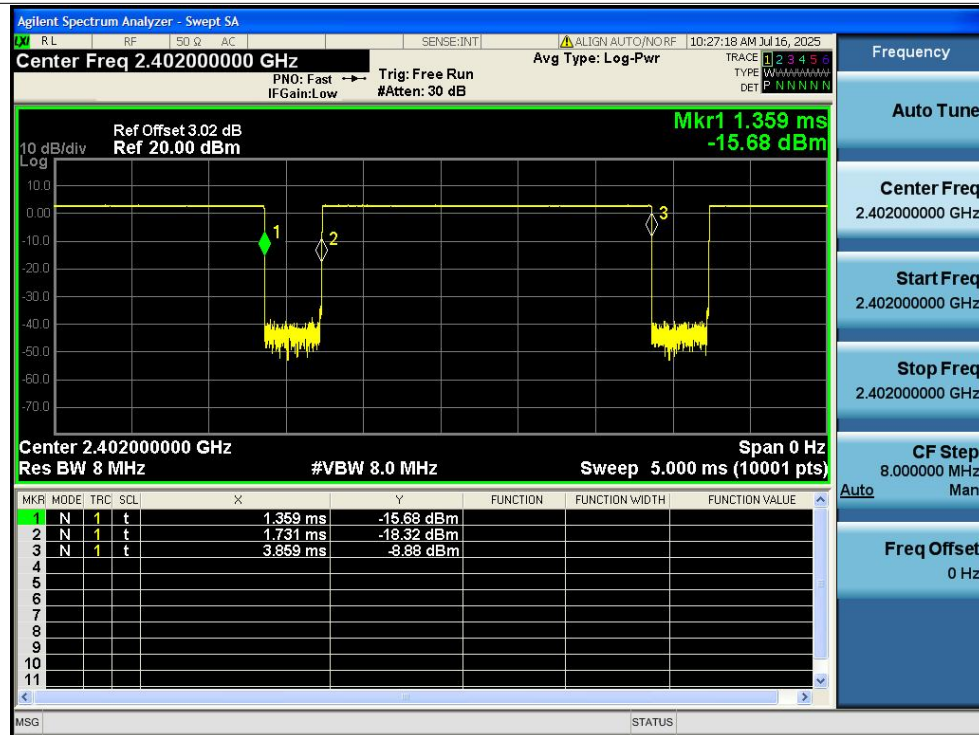
Appendix A BLE

Duty Cycle

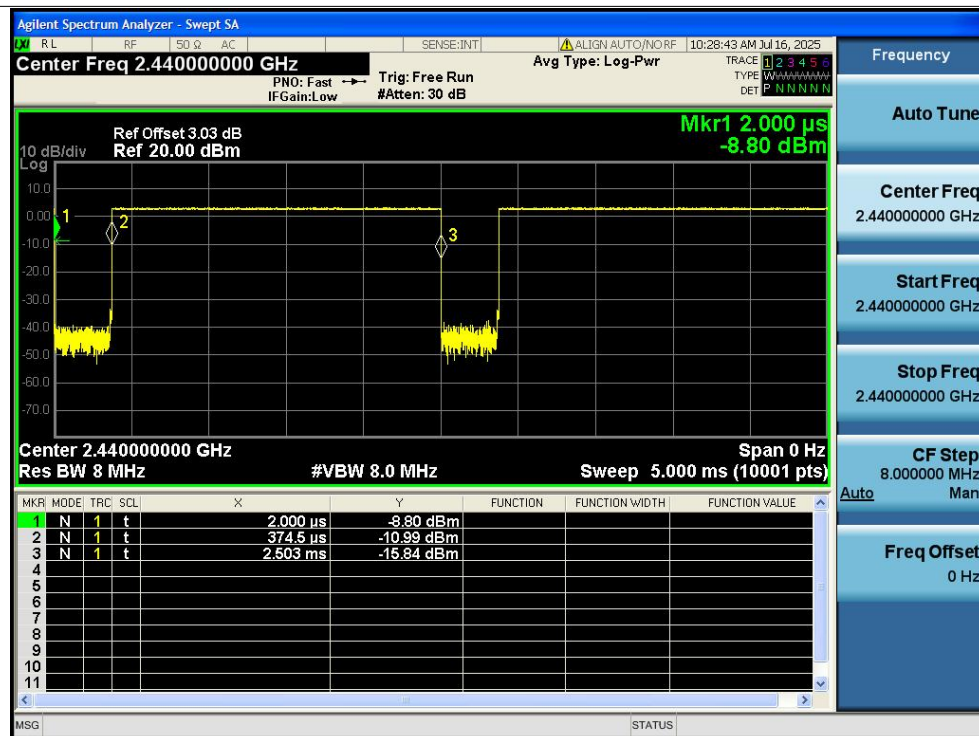
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	85.12	0.7	0.47
NVNT	BLE 1M	2440	Ant1	85.1	0.7	0.47
NVNT	BLE 1M	2480	Ant1	85.1	0.7	0.47
NVNT	BLE 2M	2402	Ant1	85.92	0.66	0.93
NVNT	BLE 2M	2440	Ant1	85.88	0.66	0.93
NVNT	BLE 2M	2480	Ant1	85.88	0.66	0.93

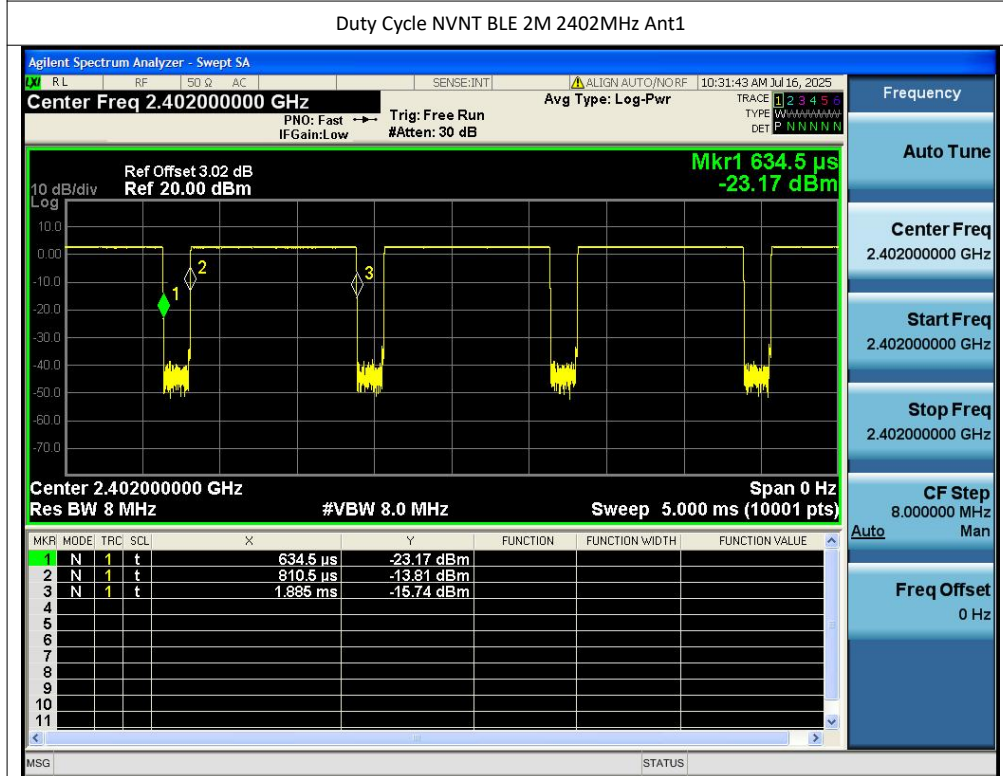
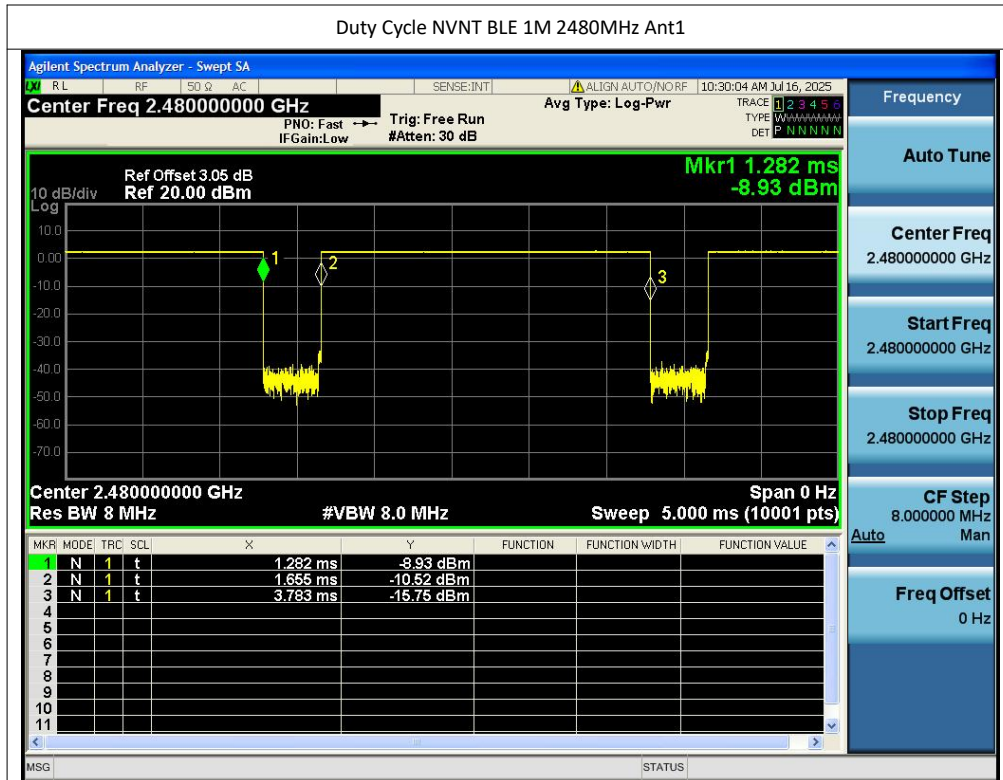
Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1

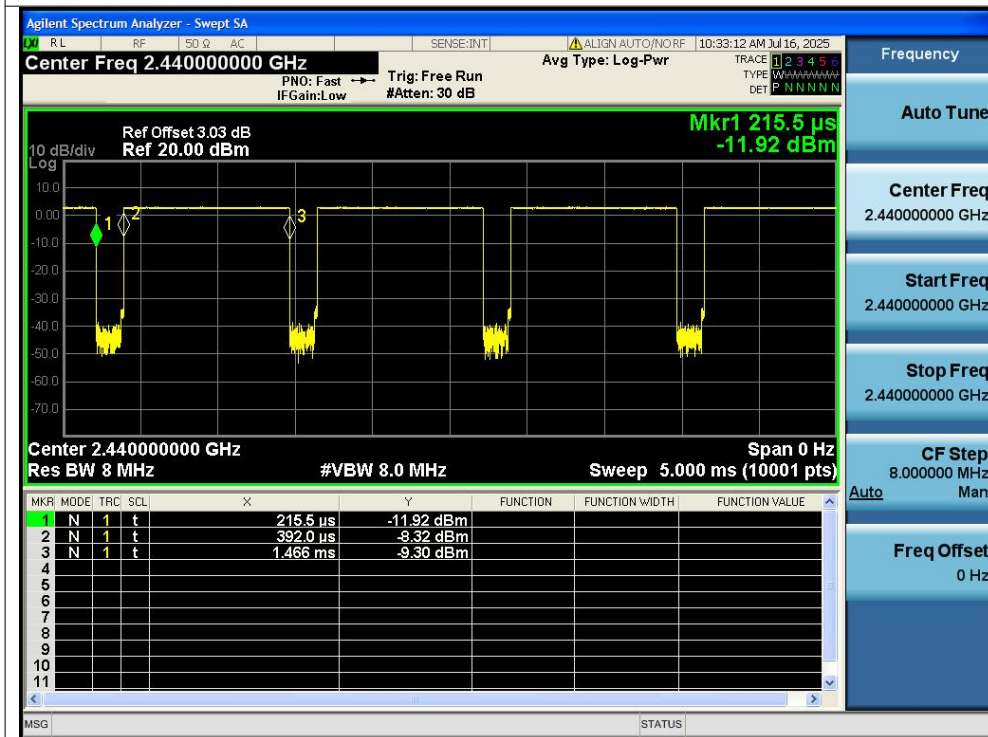


Duty Cycle NVNT BLE 1M 2440MHz Ant1

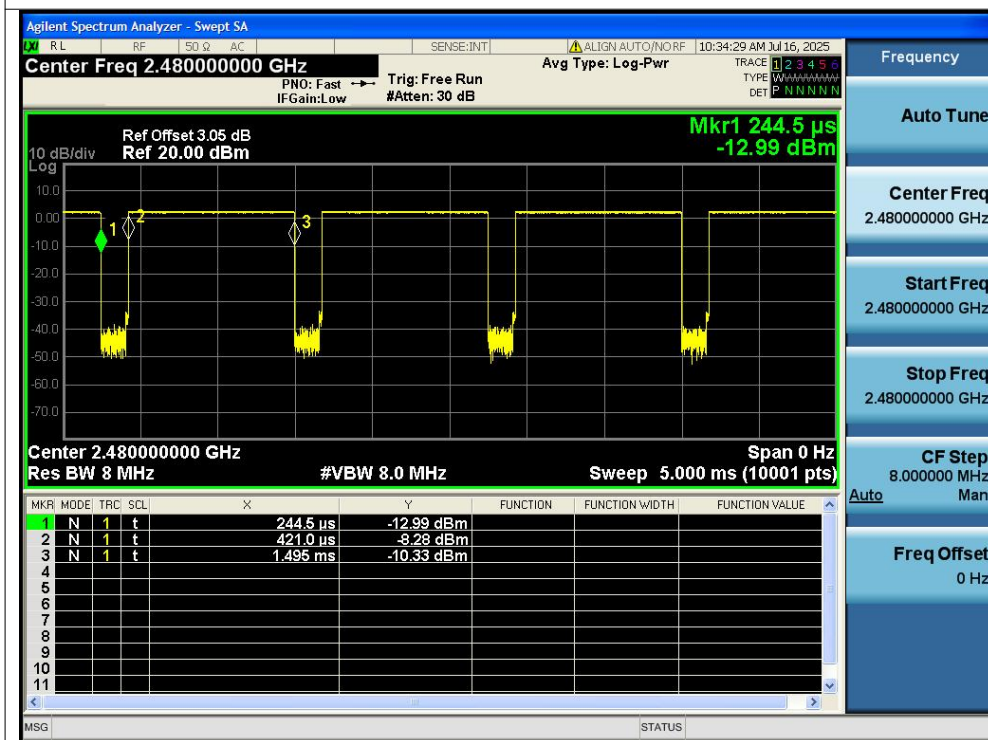




Duty Cycle NVNT BLE 2M 2440MHz Ant1



Duty Cycle NVNT BLE 2M 2480MHz Ant1



Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	2.97	30	Pass
NVNT	BLE 1M	2440	Ant1	3.03	30	Pass
NVNT	BLE 1M	2480	Ant1	2.6	30	Pass
NVNT	BLE 2M	2402	Ant1	2.83	30	Pass
NVNT	BLE 2M	2440	Ant1	2.87	30	Pass
NVNT	BLE 2M	2480	Ant1	2.45	30	Pass

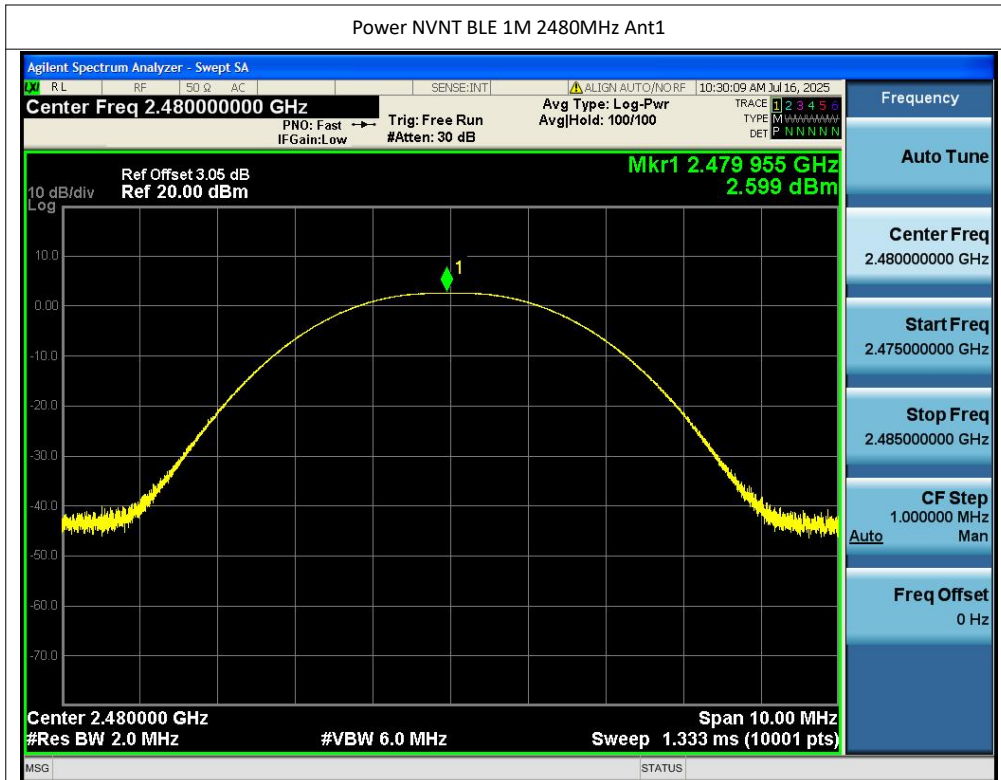
Test Graphs

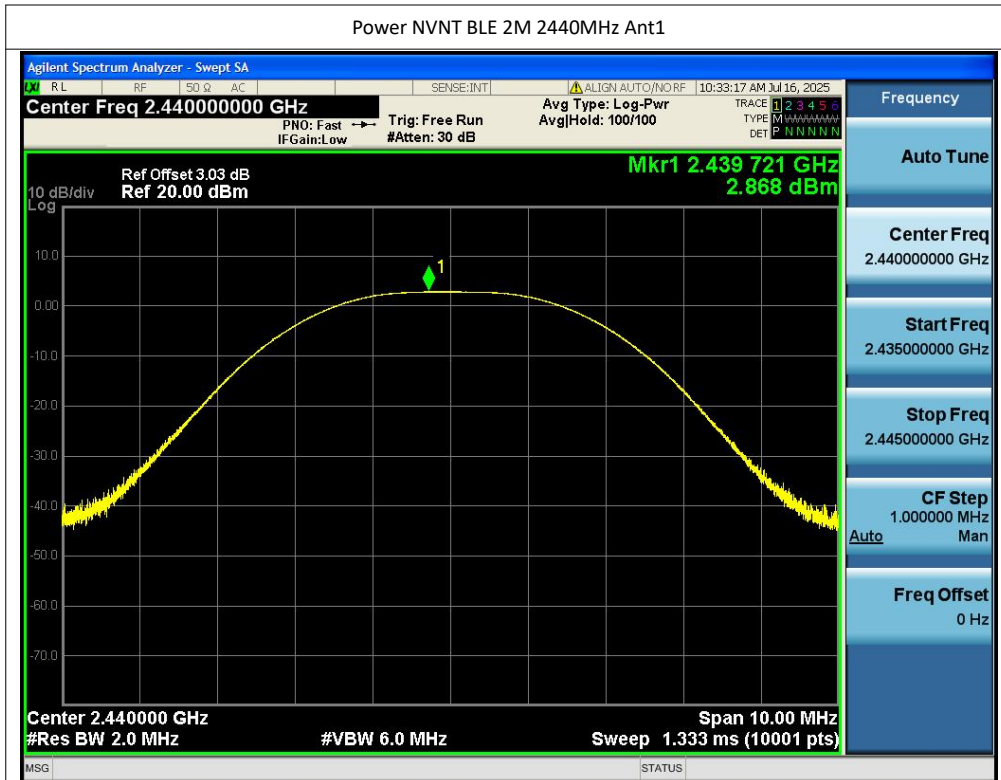
Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1







-6dB Bandwidth

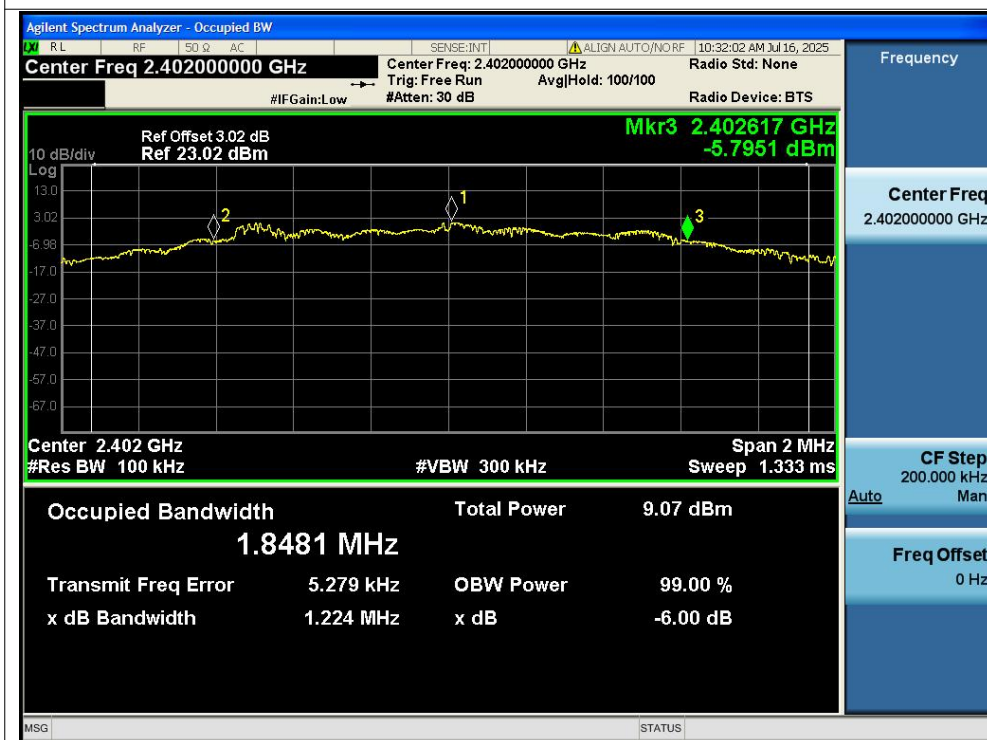
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.719	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.718	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.716	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.224	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.23	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.23	0.5	Pass



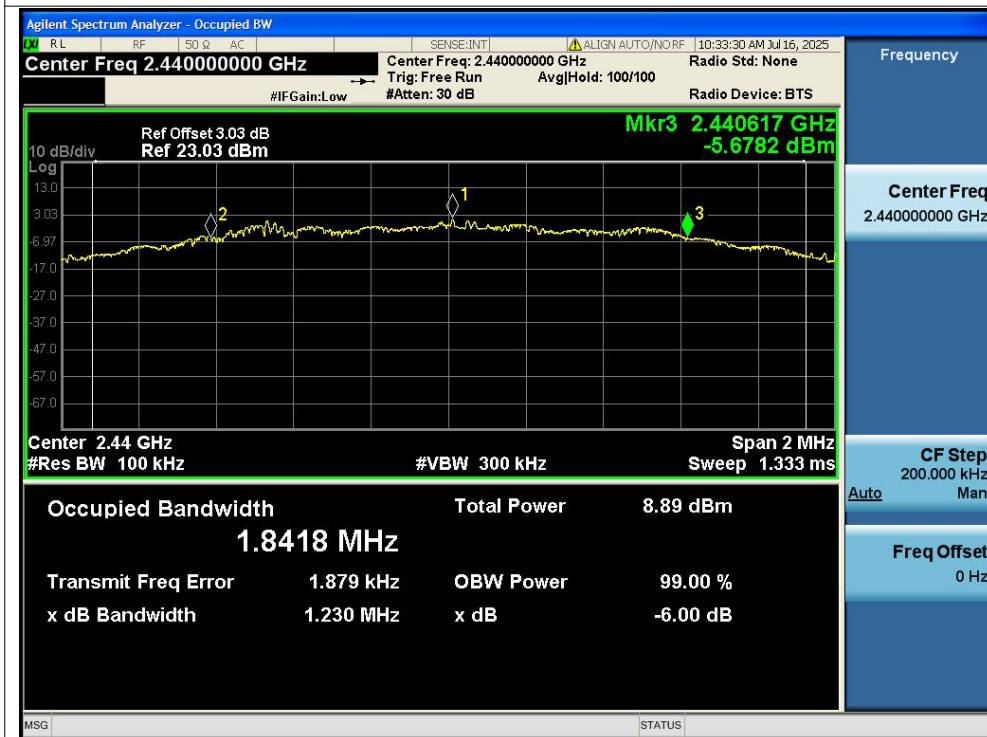
-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



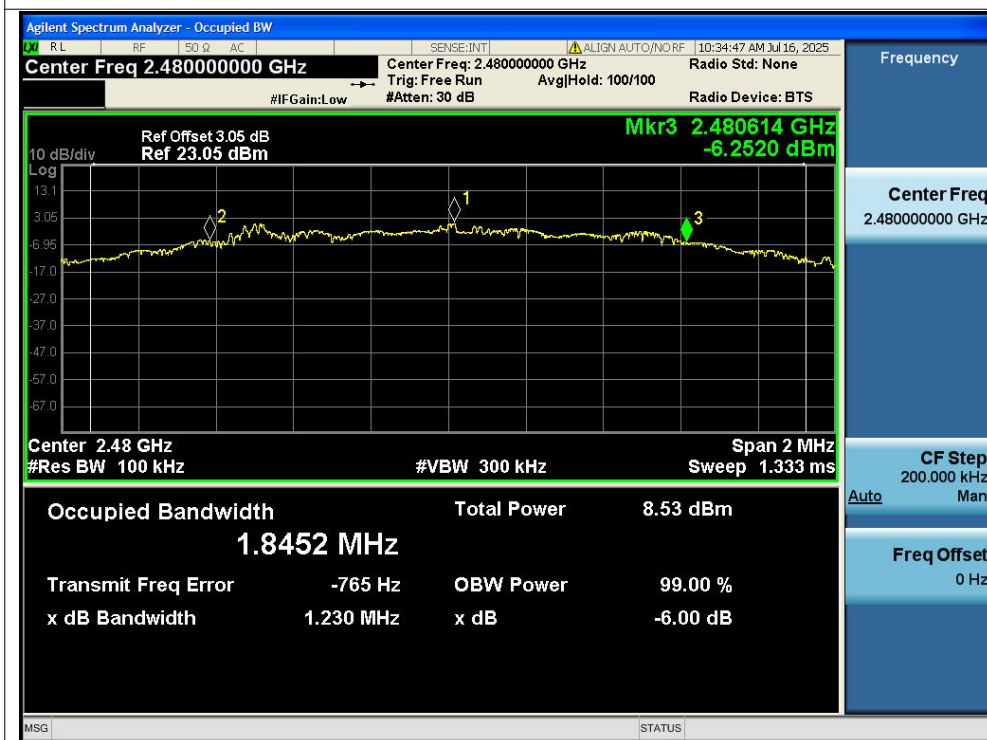
-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



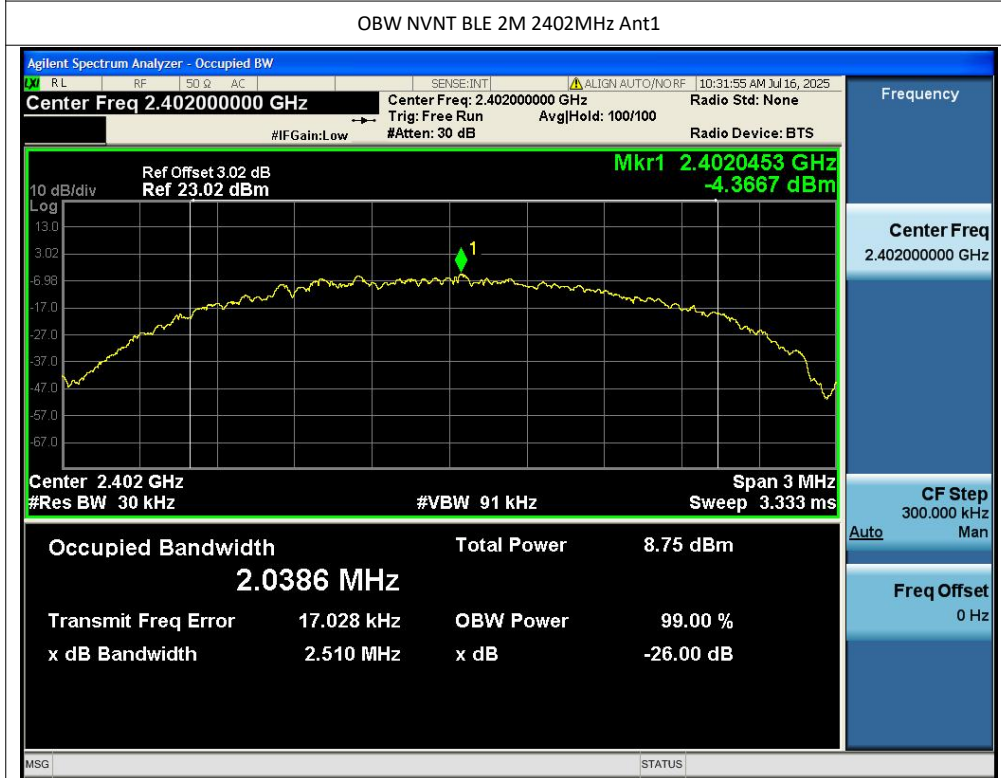
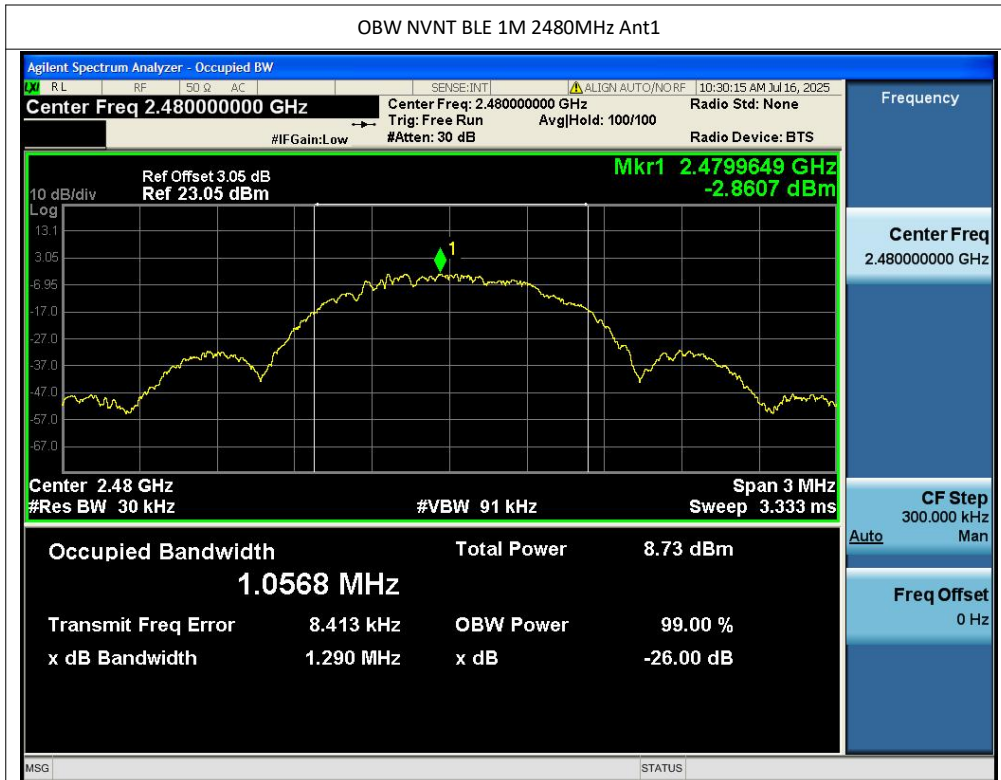
-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1

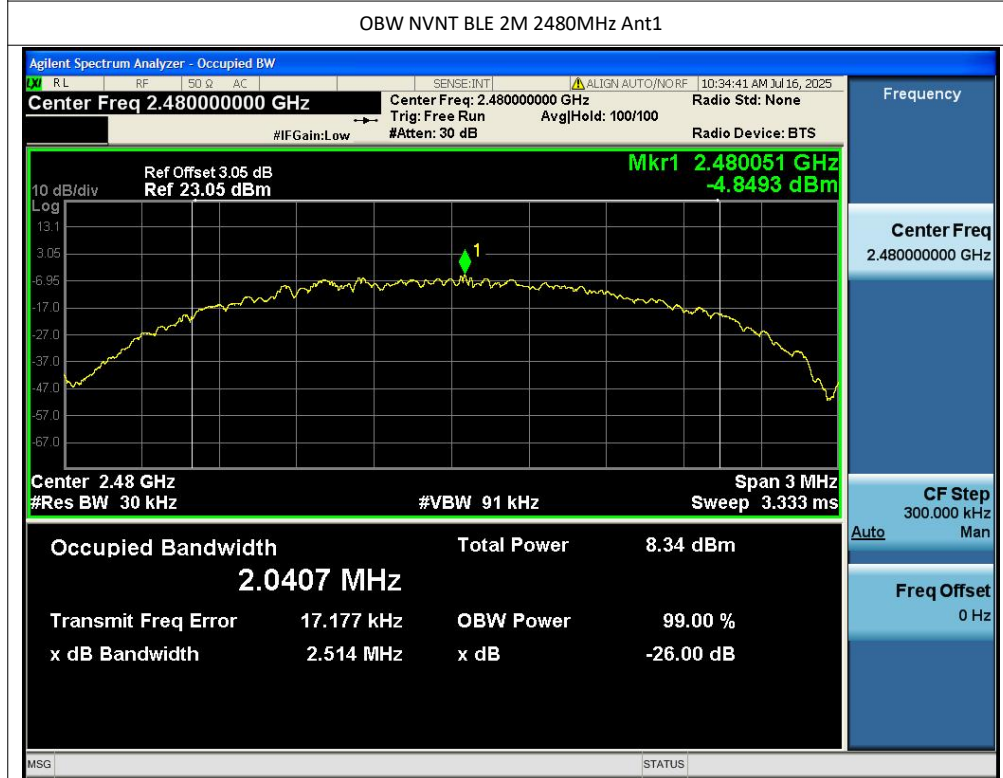
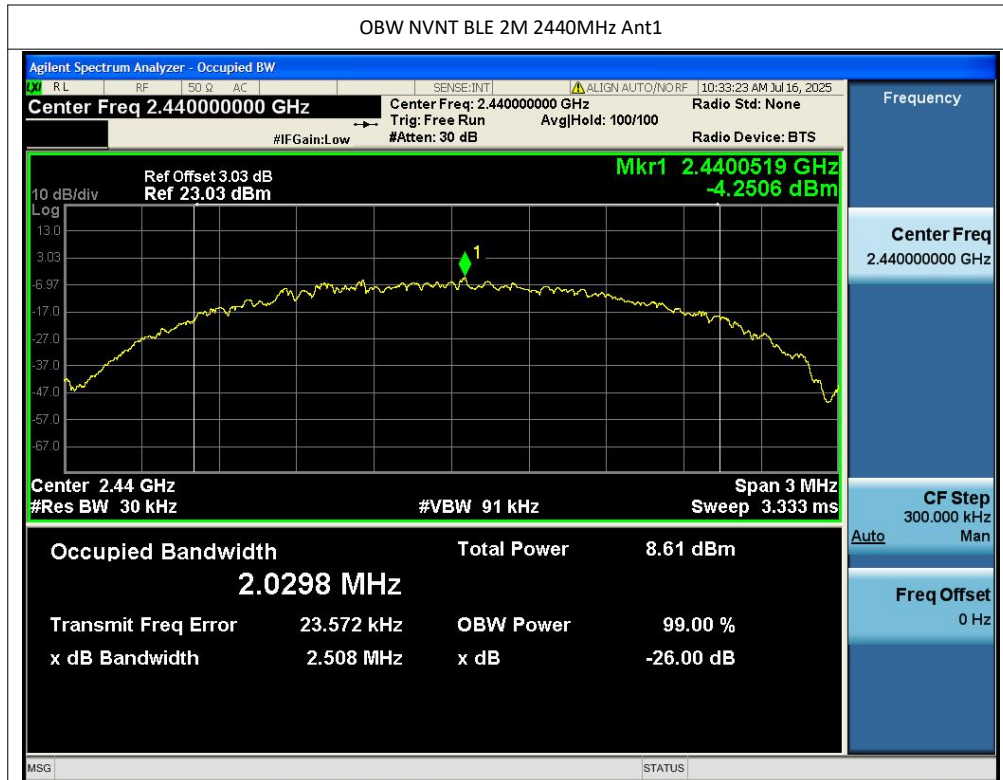


Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.056
NVNT	BLE 1M	2440	Ant1	1.059
NVNT	BLE 1M	2480	Ant1	1.057
NVNT	BLE 2M	2402	Ant1	2.039
NVNT	BLE 2M	2440	Ant1	2.03
NVNT	BLE 2M	2480	Ant1	2.041







Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/100kHz)	Limit (dBm/100kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	1.87	8	Pass
NVNT	BLE 1M	2440	Ant1	1.89	8	Pass
NVNT	BLE 1M	2480	Ant1	1.47	8	Pass
NVNT	BLE 2M	2402	Ant1	1.04	8	Pass
NVNT	BLE 2M	2440	Ant1	1.29	8	Pass
NVNT	BLE 2M	2480	Ant1	0.92	8	Pass

Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1







Band Edge

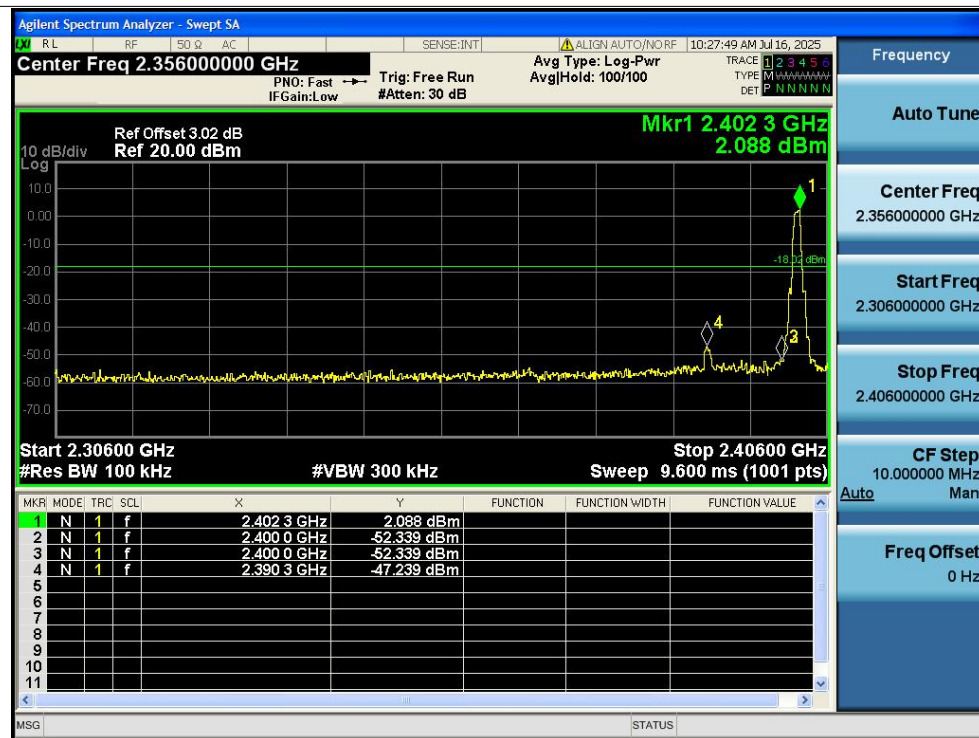
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-49.21	-20	Pass
NVNT	BLE 1M	2480	Ant1	-48.13	-20	Pass
NVNT	BLE 2M	2402	Ant1	-32.76	-20	Pass
NVNT	BLE 2M	2480	Ant1	-49.21	-20	Pass

Test Graphs

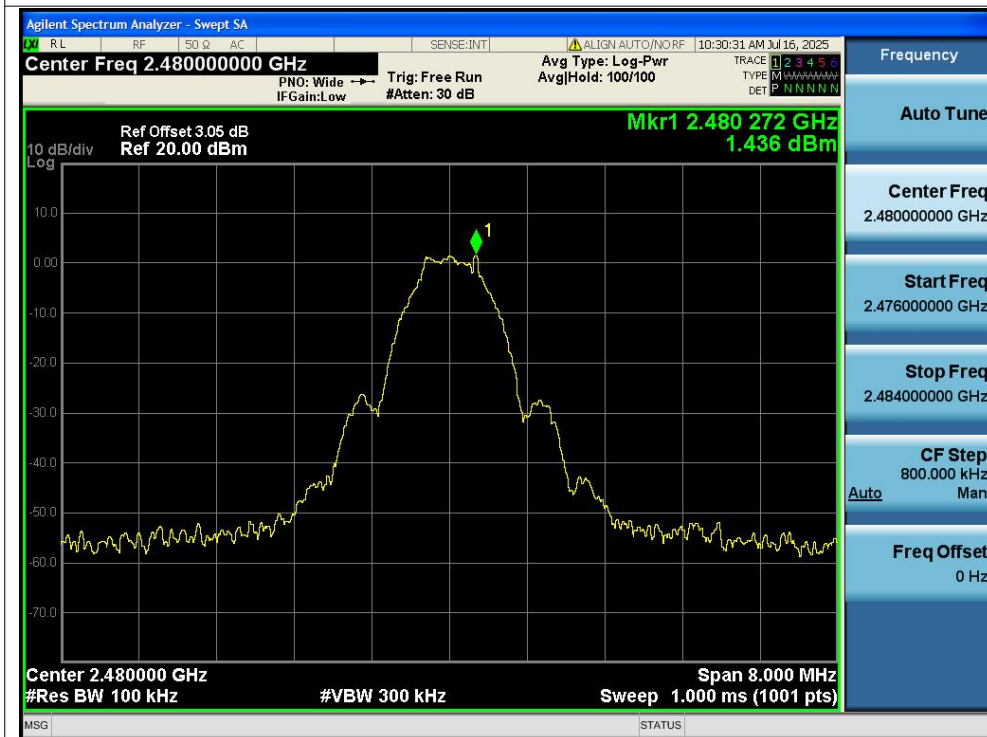
Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



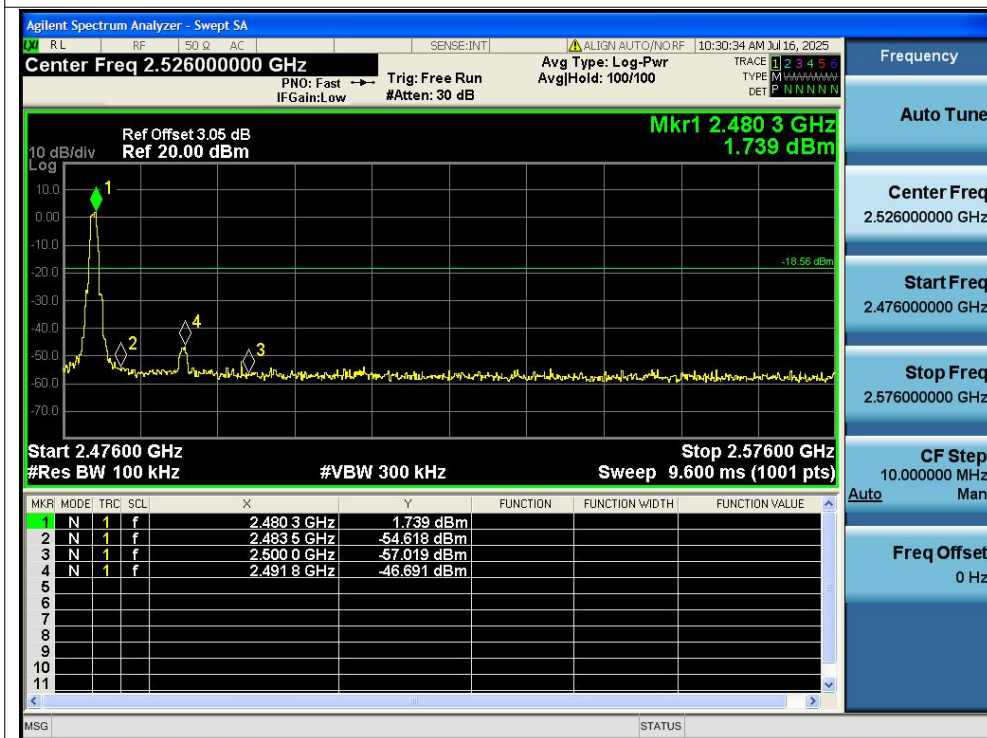
Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



Band Edge NVNT BLE 2M 2402MHz Ant1 Emission

