

Appendix D_BLE

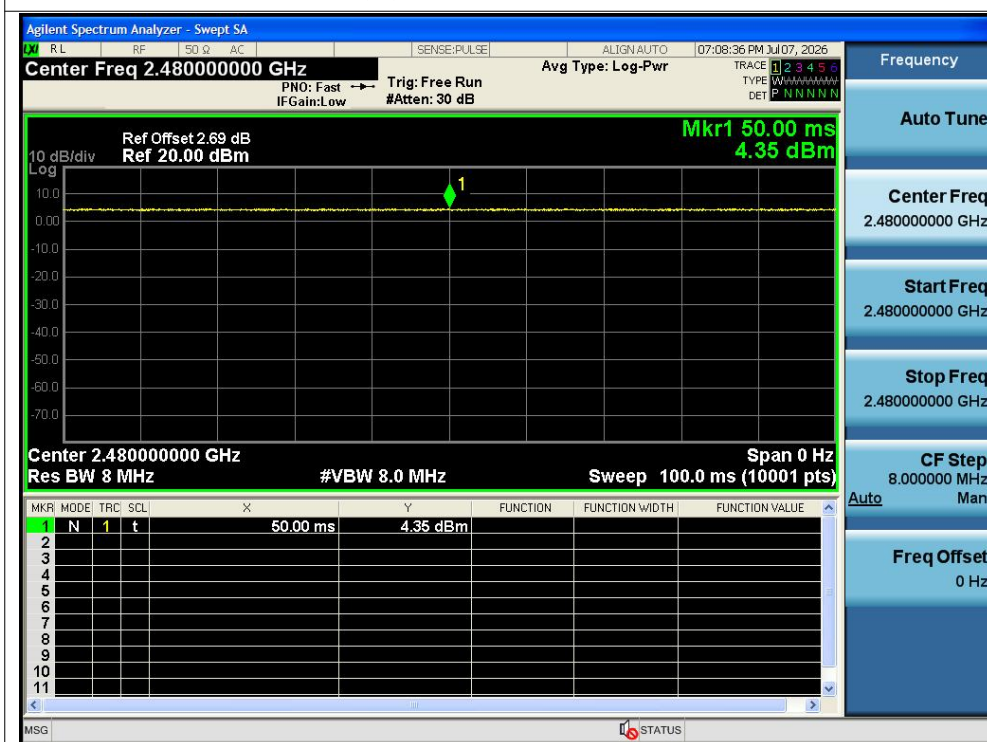
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	100	0	0.01
NVNT	BLE 1M	2440	Ant1	100	0	0.01
NVNT	BLE 1M	2480	Ant1	100	0	0.01
NVNT	BLE 2M	2402	Ant1	100	0	0.01
NVNT	BLE 2M	2440	Ant1	100	0	0.01
NVNT	BLE 2M	2480	Ant1	100	0	0.01

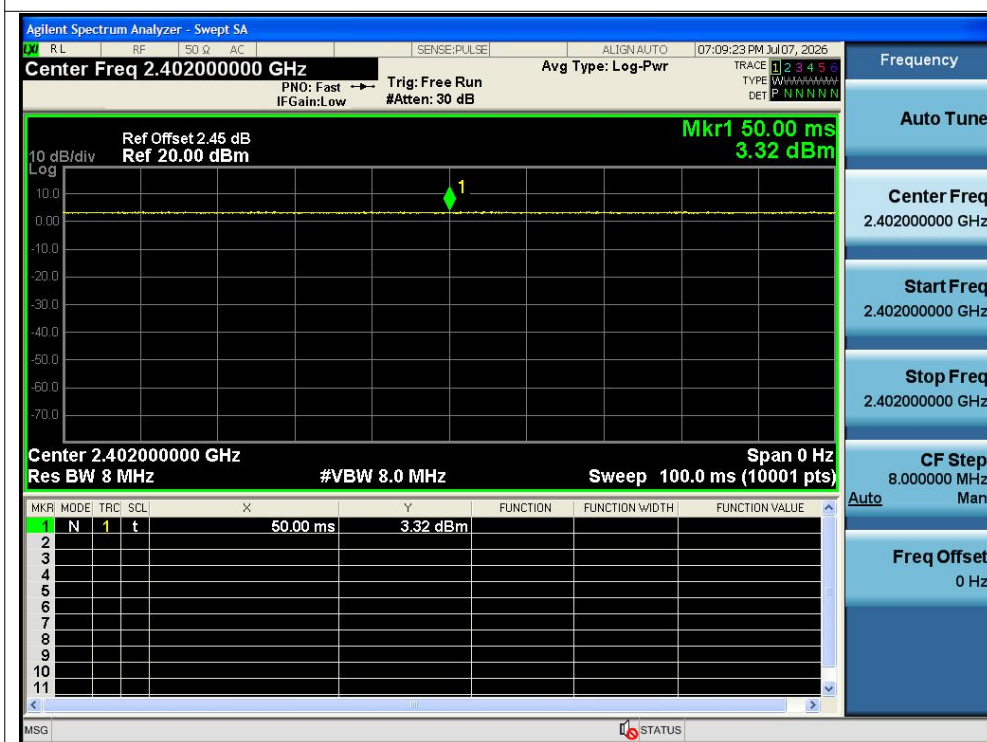
Duty Cycle NVNT BLE 1M 2402MHz Ant1



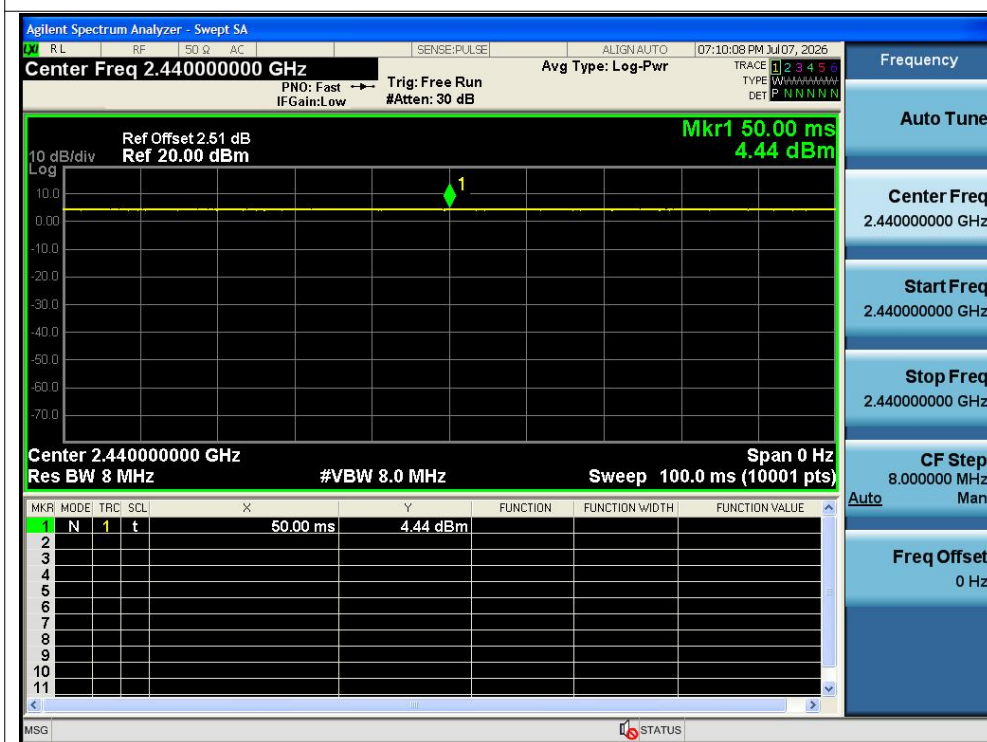
Duty Cycle NVNT BLE 1M 2480MHz Ant1



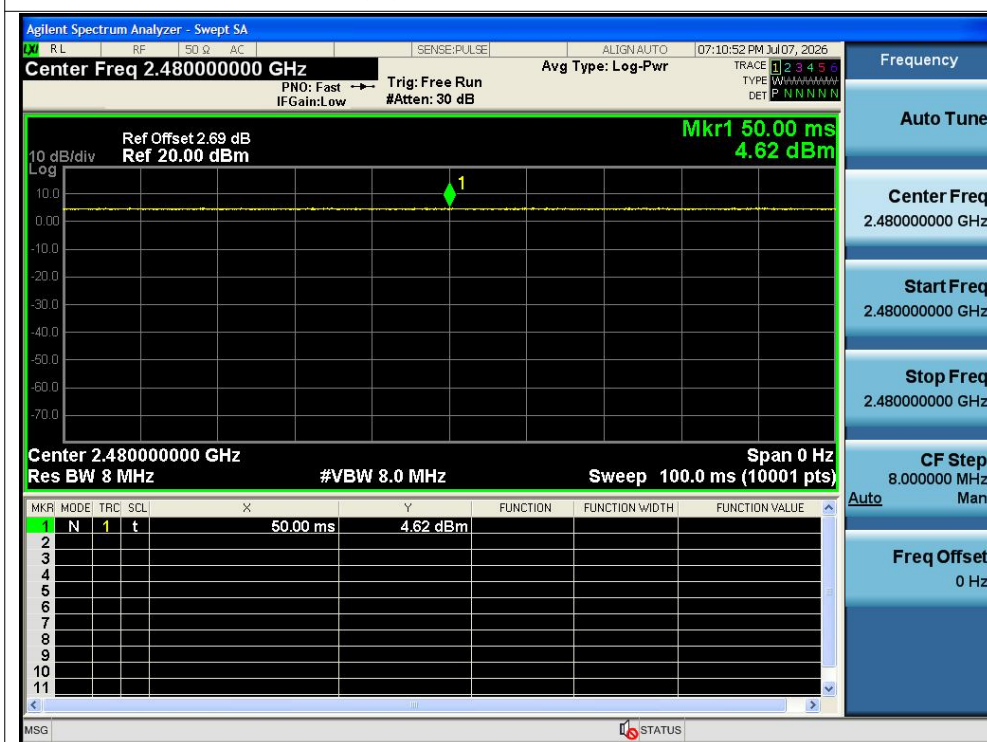
Duty Cycle NVNT BLE 2M 2402MHz Ant1



Duty Cycle NVNT BLE 2M 2440MHz Ant1



Duty Cycle NVNT BLE 2M 2480MHz Ant1



Maximum Conducted Output Power

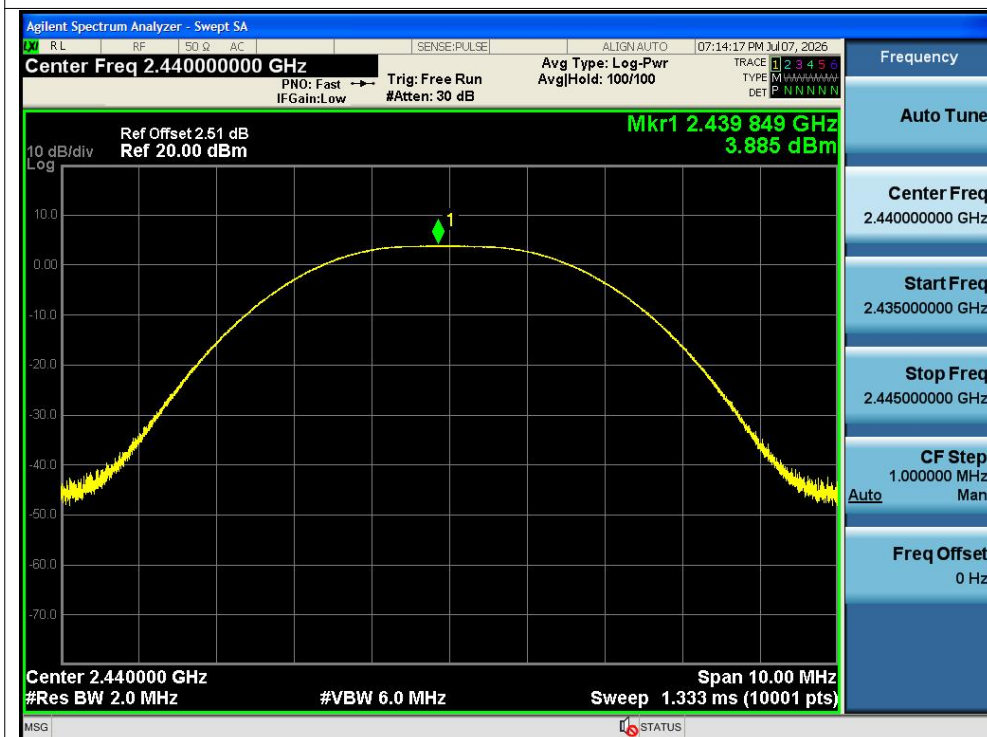
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	3.14	30	Pass
NVNT	BLE 1M	2440	Ant1	3.89	30	Pass
NVNT	BLE 1M	2480	Ant1	4.33	30	Pass
NVNT	BLE 2M	2402	Ant1	3.14	30	Pass
NVNT	BLE 2M	2440	Ant1	3.94	30	Pass
NVNT	BLE 2M	2480	Ant1	4.32	30	Pass

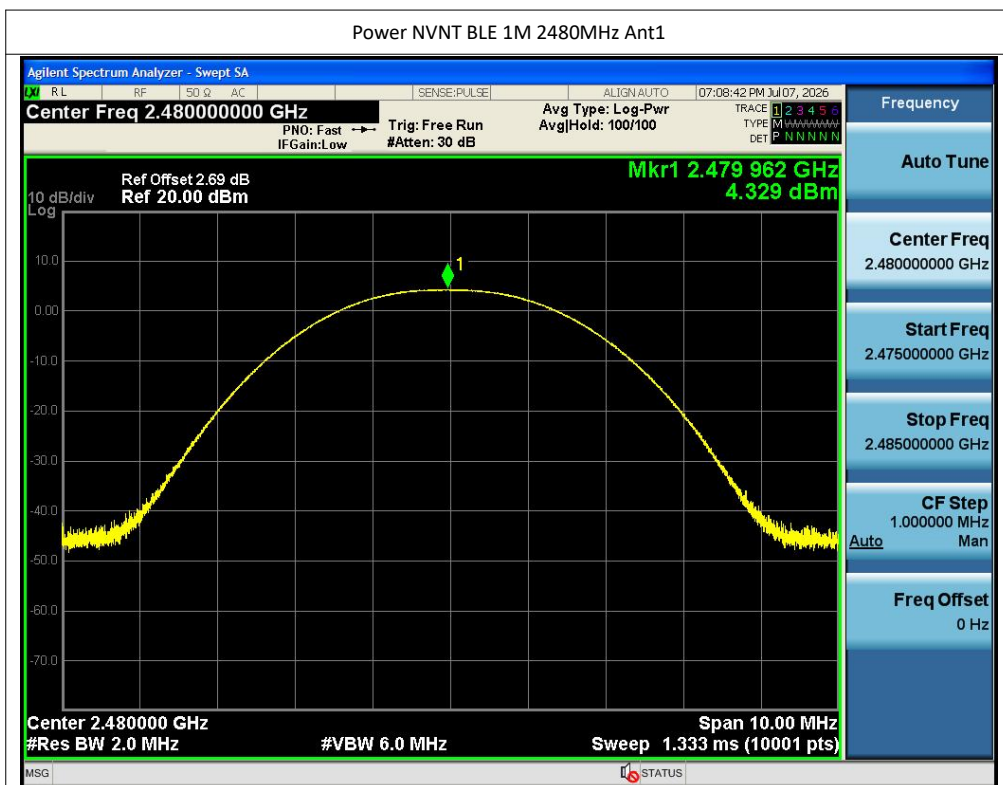
Test Graphs

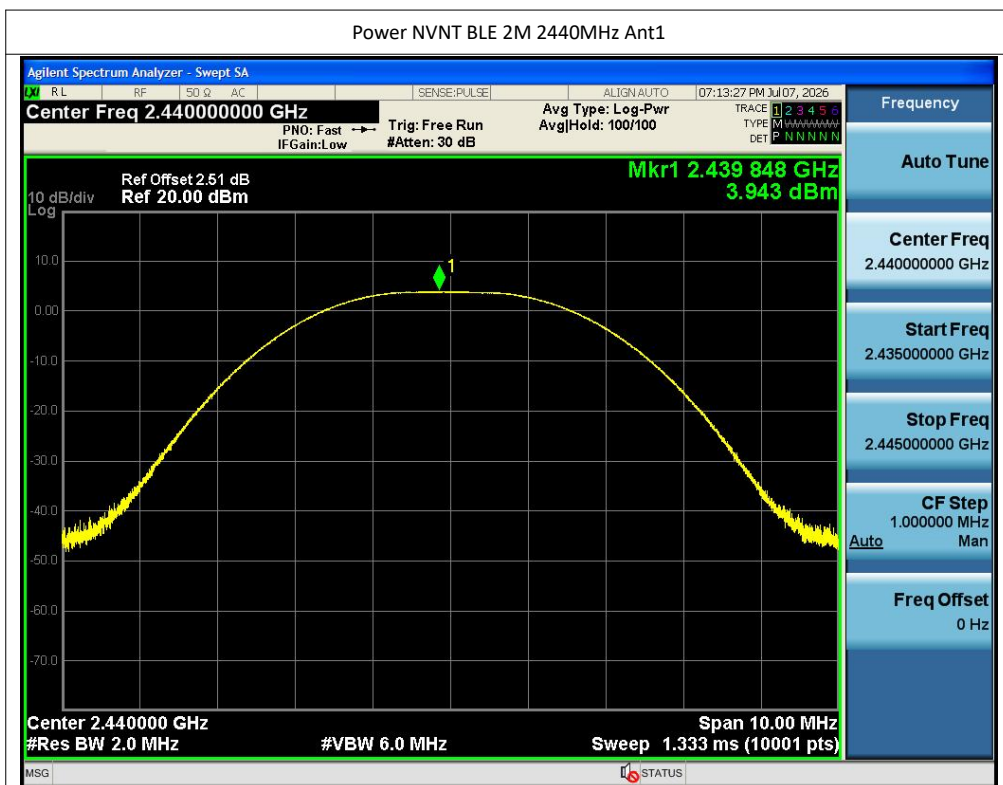
Power NVNT BLE 1M 2402MHz Ant1



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	0.6588	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.6516	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.6429	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.335	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.326	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.328	0.5	Pass

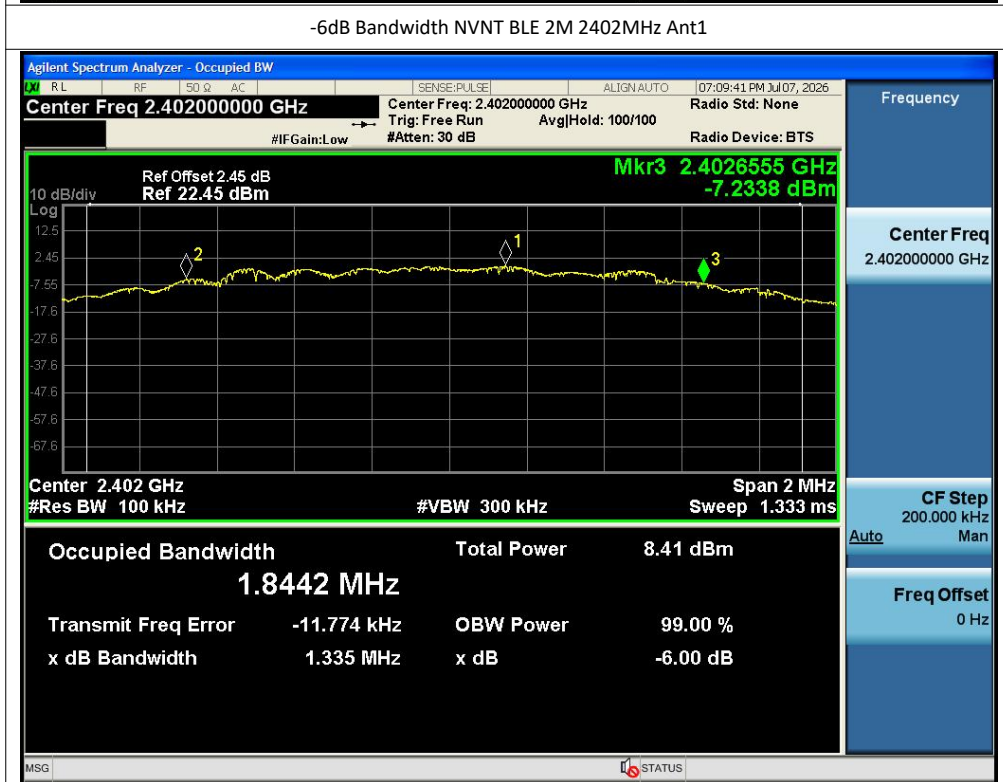
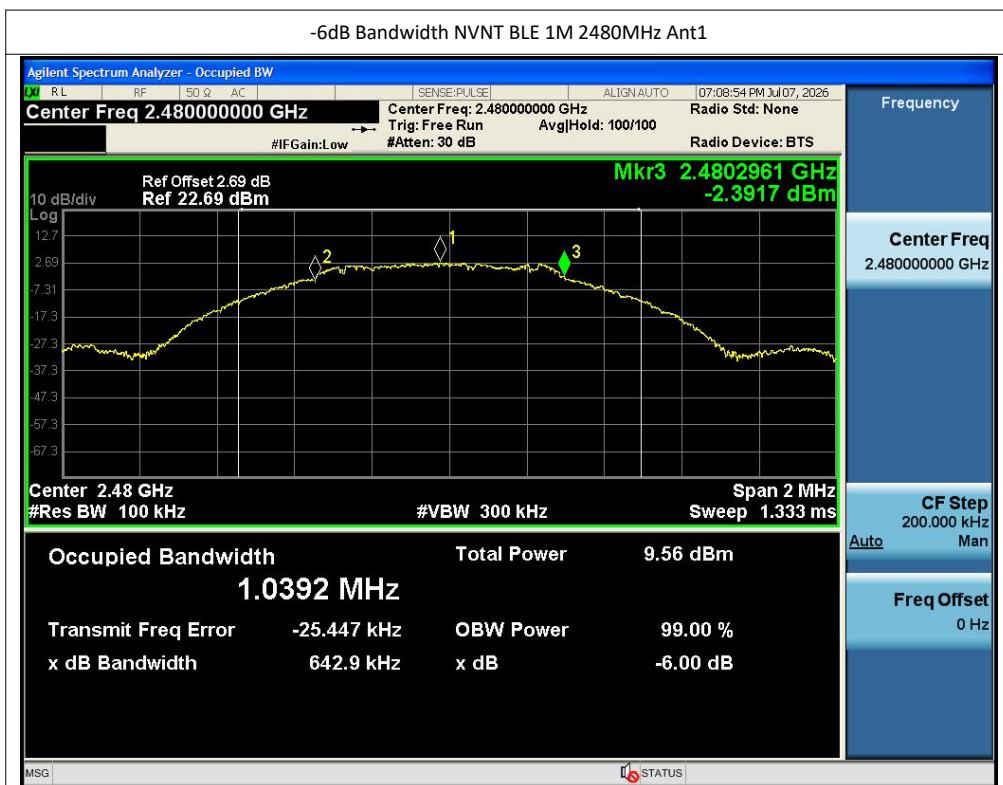
Test Graphs

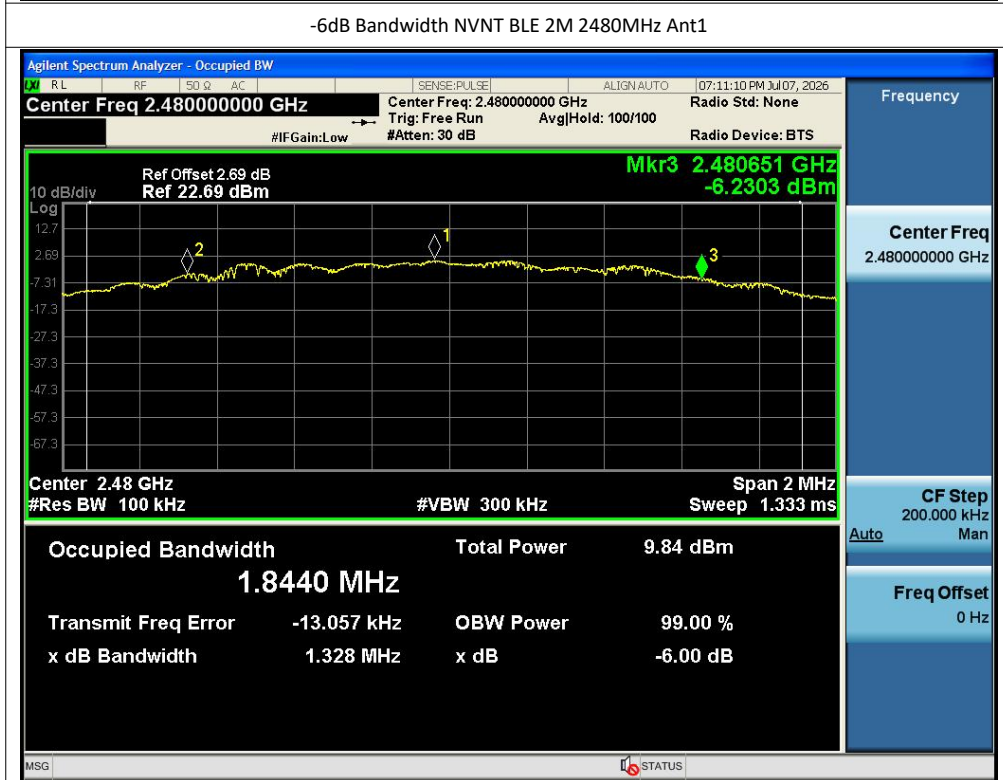
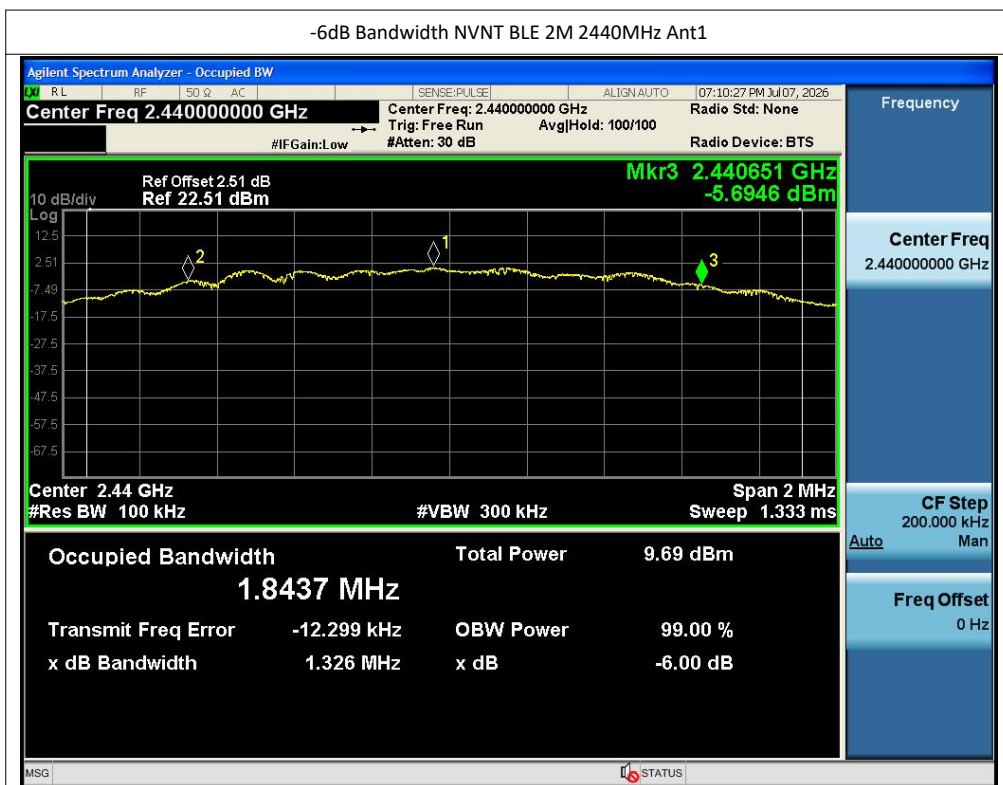
-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1







Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.039
NVNT	BLE 1M	2440	Ant1	1.0402
NVNT	BLE 1M	2480	Ant1	1.038
NVNT	BLE 2M	2402	Ant1	2.0535
NVNT	BLE 2M	2440	Ant1	2.0584
NVNT	BLE 2M	2480	Ant1	2.0591

Test Graphs

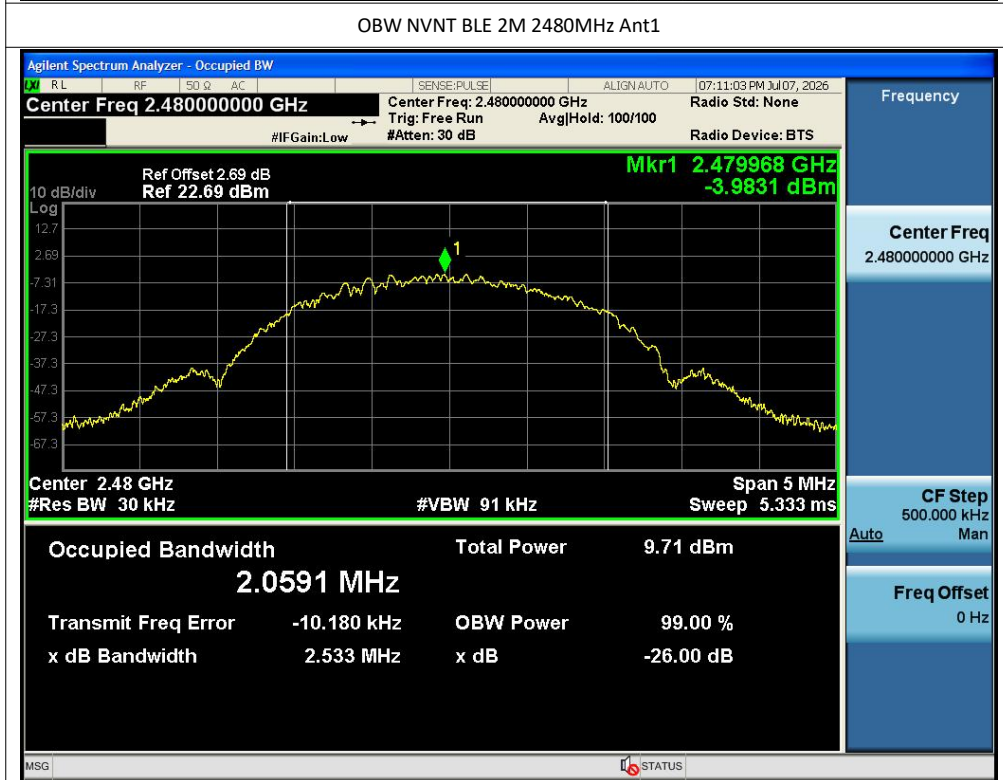
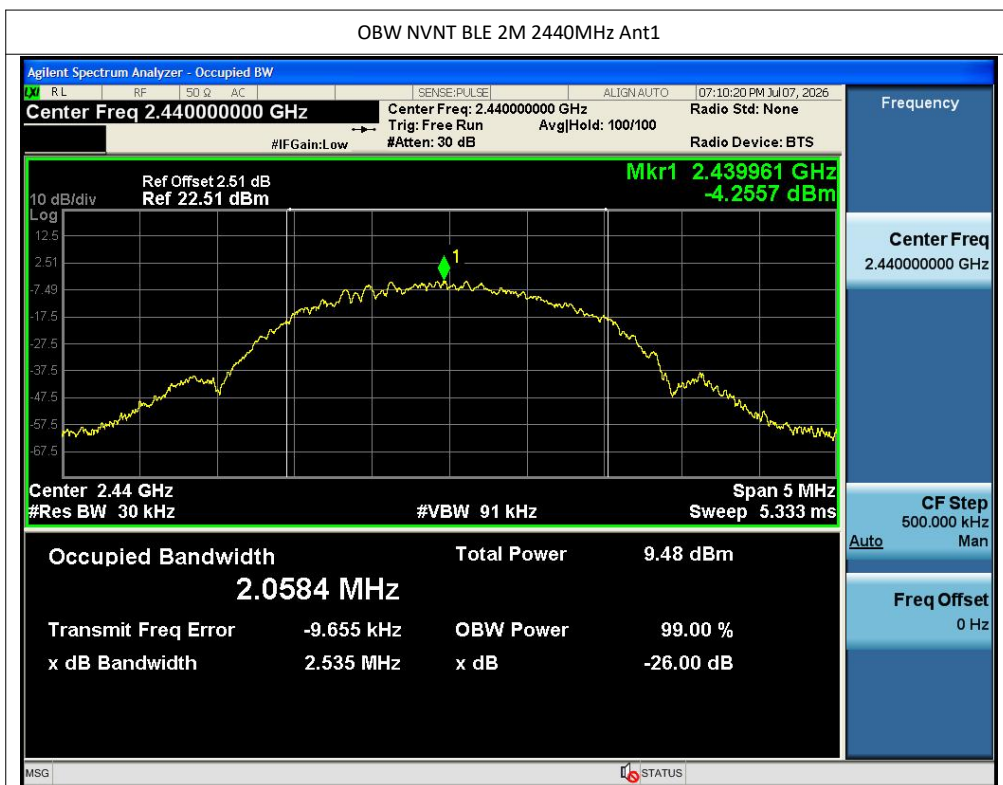
OBW NVNT BLE 1M 2402MHz Ant1



OBW NVNT BLE 1M 2440MHz Ant1







Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/100kHz)	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-0.6	-15.83	8	Pass
NVNT	BLE 1M	2440	Ant1	2.63	-12.6	8	Pass
NVNT	BLE 1M	2480	Ant1	2.83	-12.4	8	Pass
NVNT	BLE 2M	2402	Ant1	-0.49	-15.72	8	Pass
NVNT	BLE 2M	2440	Ant1	0.61	-14.62	8	Pass
NVNT	BLE 2M	2480	Ant1	0.85	-14.38	8	Pass

Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1





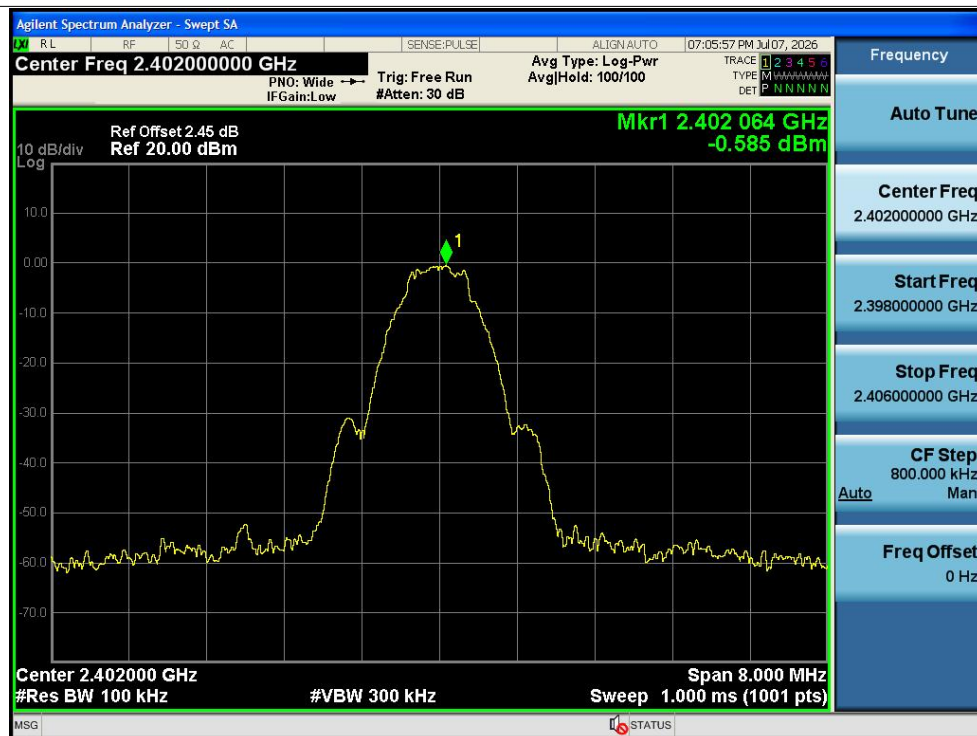


Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-52.35	-20	Pass
NVNT	BLE 1M	2480	Ant1	-58.57	-20	Pass
NVNT	BLE 2M	2402	Ant1	-44.69	-20	Pass
NVNT	BLE 2M	2480	Ant1	-55.48	-20	Pass

Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission

