

Appendix A BLE

Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Gain(dBi)	EIRP (dBm)	EIRP (W)	Limit (dBm)	EIRP Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	2.2	-0.58	1.62	0.001452112	30	36	Pass
NVNT	BLE 1M	2440	Ant1	2.42	-0.58	1.84	0.001527566	30	36	Pass
NVNT	BLE 1M	2480	Ant1	2.28	-0.58	1.7	0.001479108	30	36	Pass
NVNT	BLE 2M	2402	Ant1	2.2	-0.58	1.62	0.001452112	30	36	Pass
NVNT	BLE 2M	2440	Ant1	2.42	-0.58	1.84	0.001527566	30	36	Pass
NVNT	BLE 2M	2480	Ant1	2.3	-0.58	1.72	0.001485936	30	36	Pass

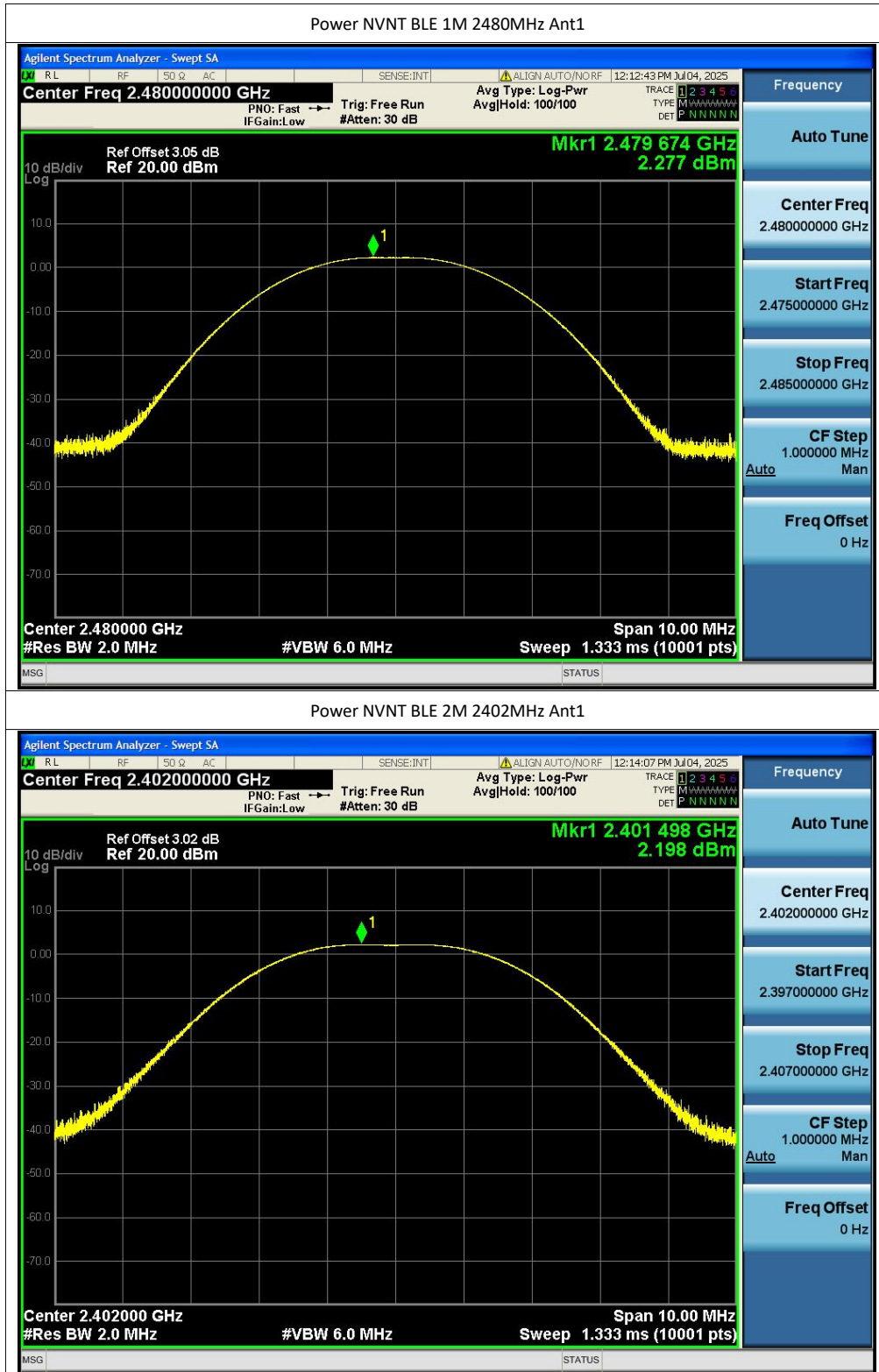
Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

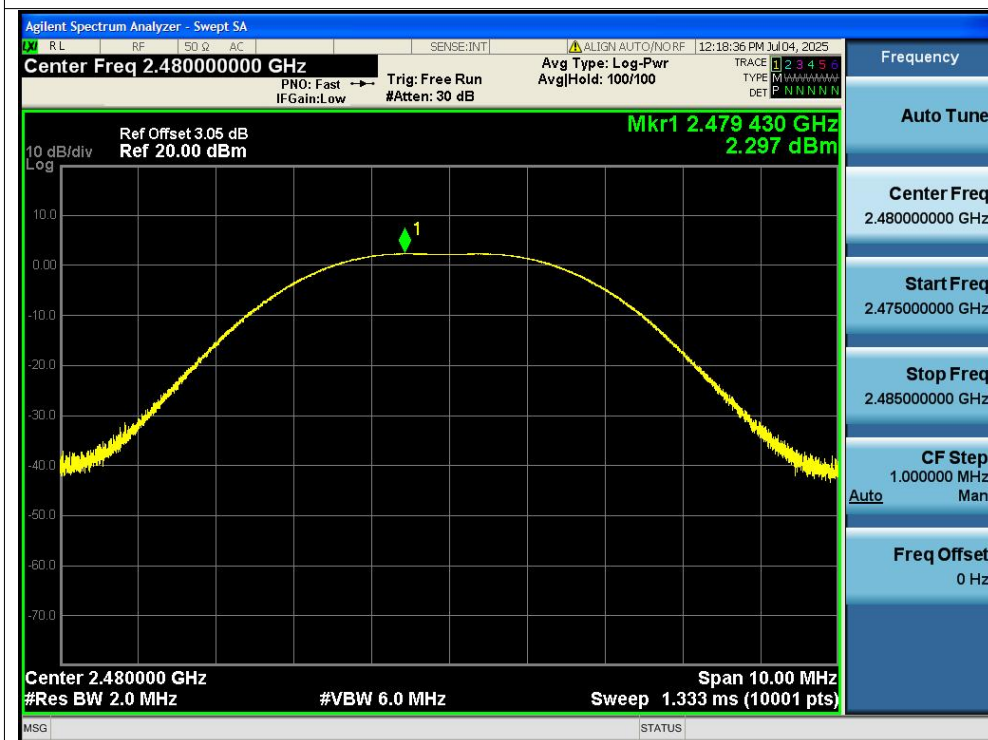




Power NVNT BLE 2M 2440MHz Ant1



Power NVNT BLE 2M 2480MHz Ant1

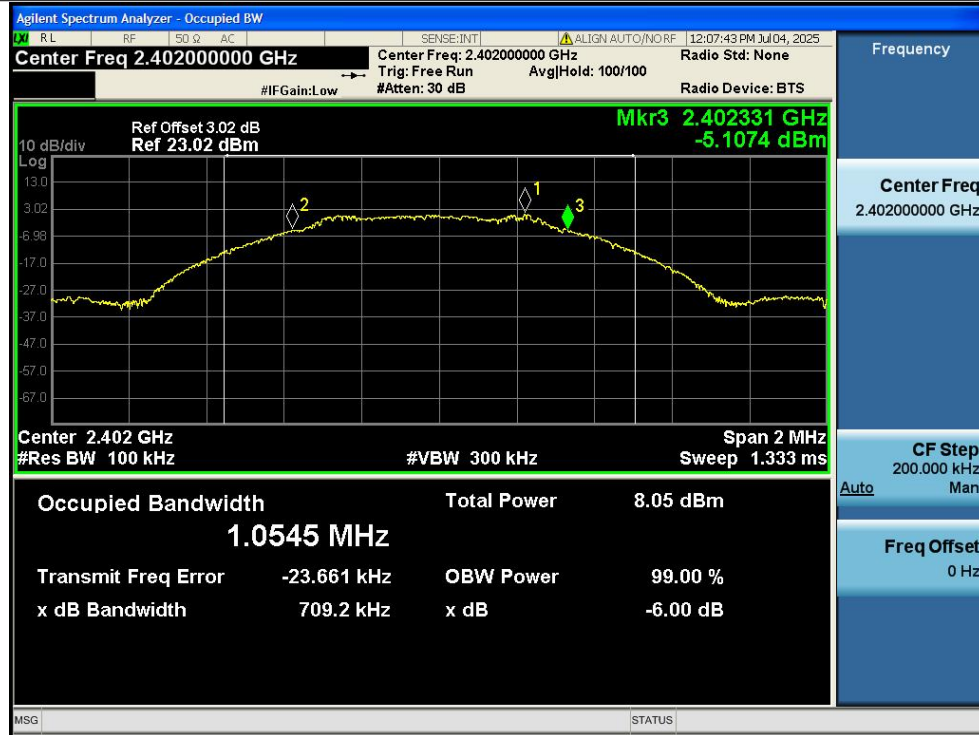


-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.709	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.705	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.692	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.269	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.28	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.27	0.5	Pass

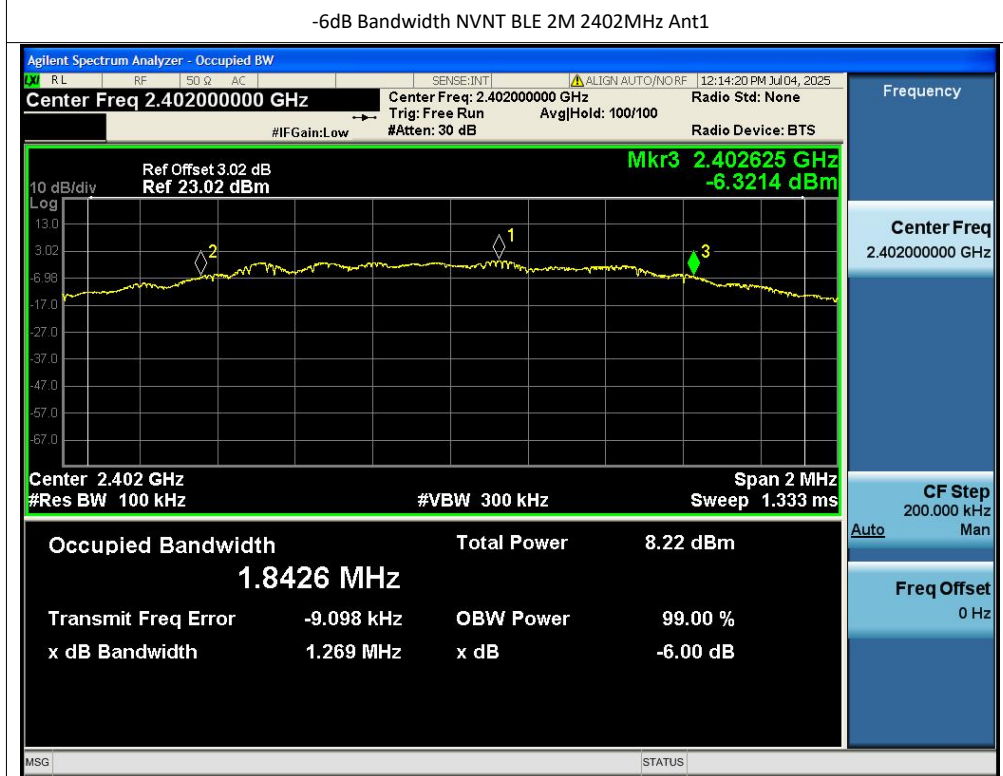
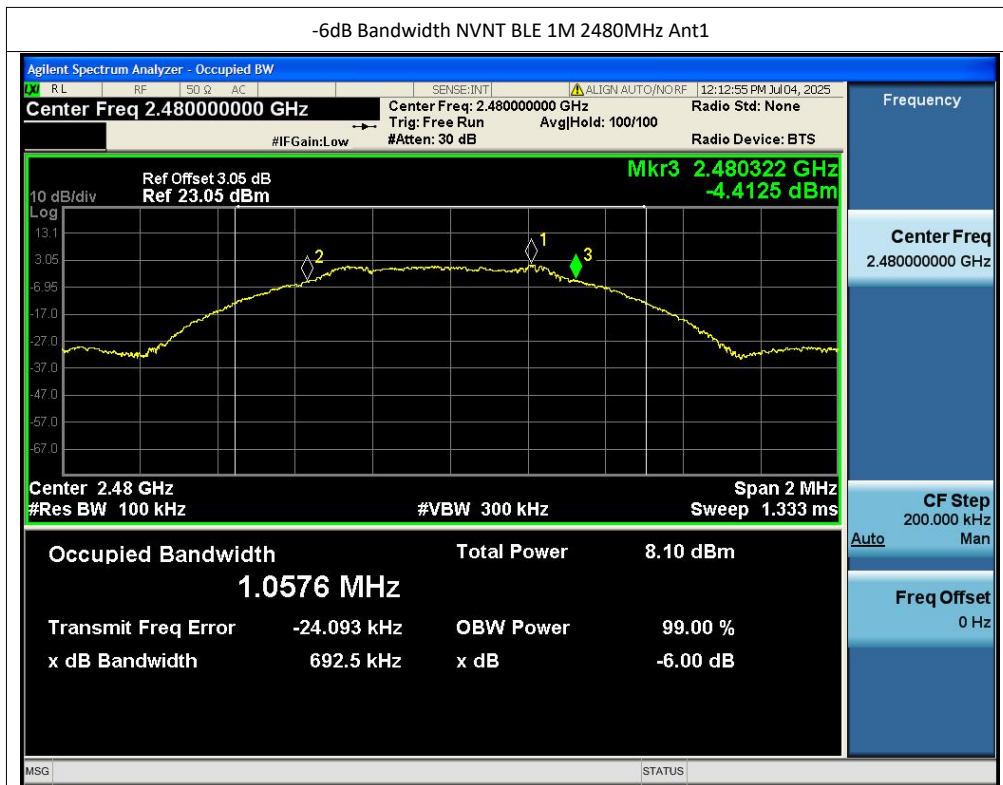
Test Graphs

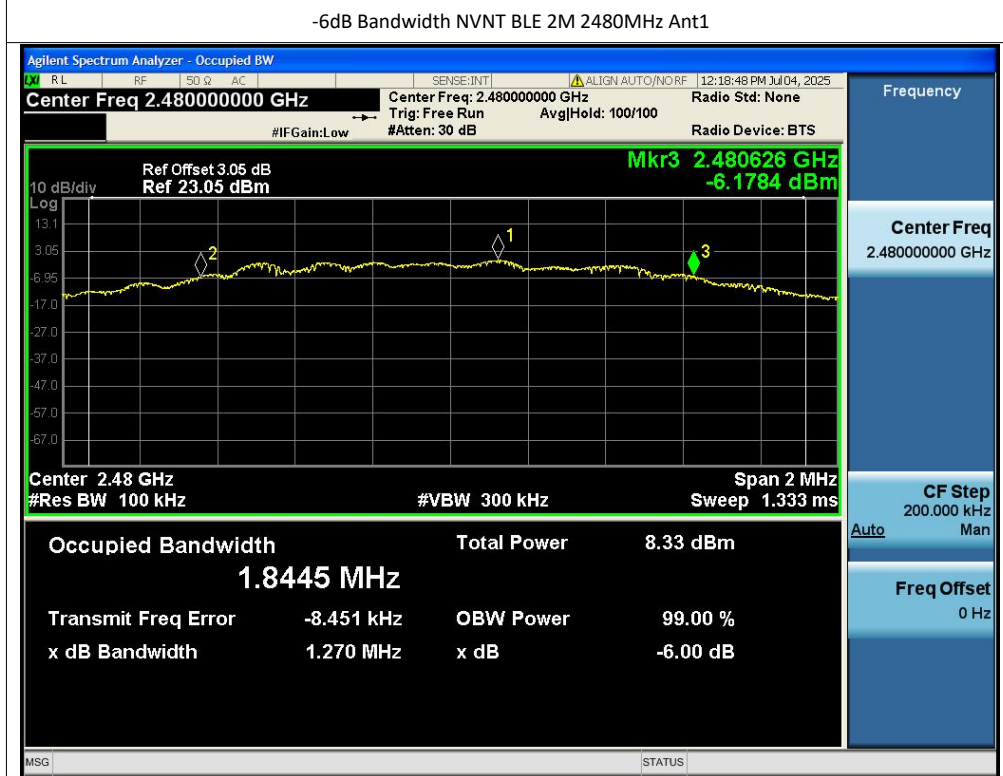
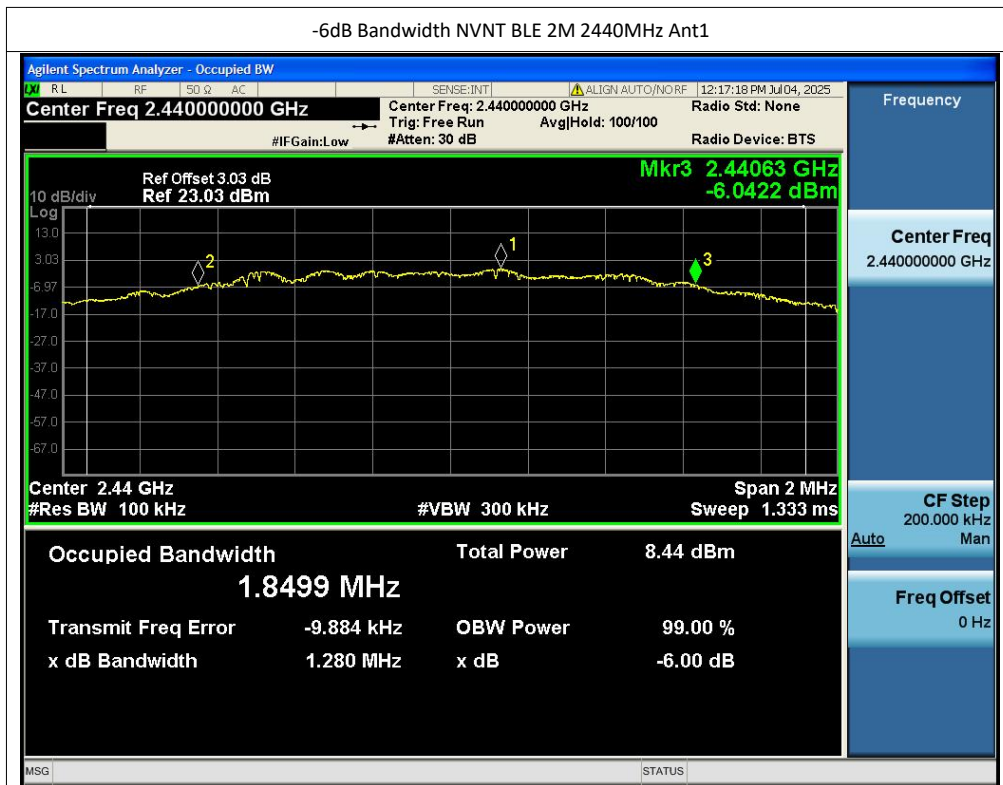
-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1







Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.046
NVNT	BLE 1M	2440	Ant1	1.046
NVNT	BLE 1M	2480	Ant1	1.049
NVNT	BLE 2M	2402	Ant1	2.103
NVNT	BLE 2M	2440	Ant1	2.109
NVNT	BLE 2M	2480	Ant1	2.108

Test Graphs

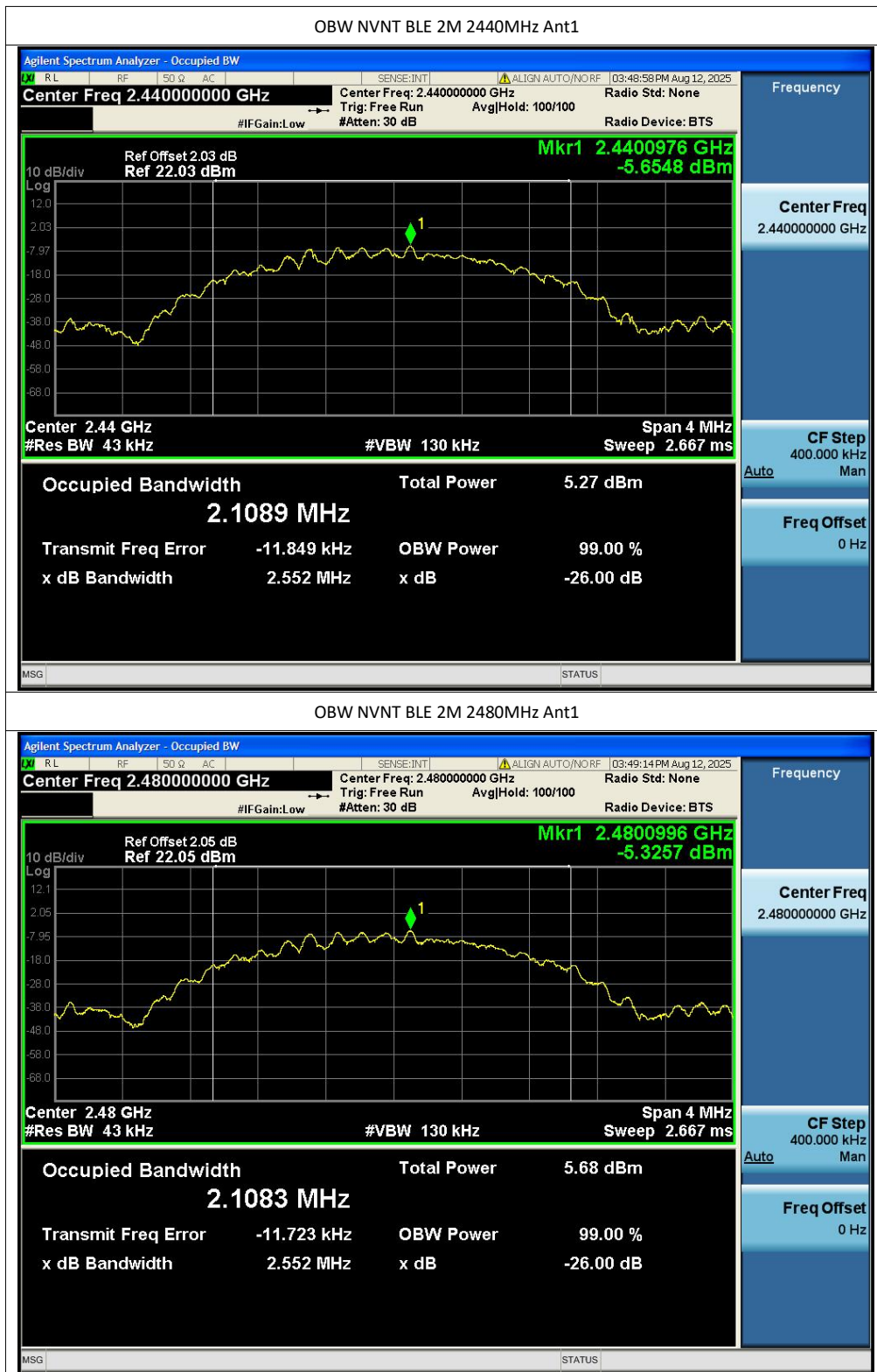
OBW NVNT BLE 1M 2402MHz Ant1



OBW NVNT BLE 1M 2440MHz Ant1







Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/100kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	1.26	8	Pass
NVNT	BLE 1M	2440	Ant1	1.5	8	Pass
NVNT	BLE 1M	2480	Ant1	1.37	8	Pass
NVNT	BLE 2M	2402	Ant1	-0.41	8	Pass
NVNT	BLE 2M	2440	Ant1	-0.24	8	Pass
NVNT	BLE 2M	2480	Ant1	-0.32	8	Pass

Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1





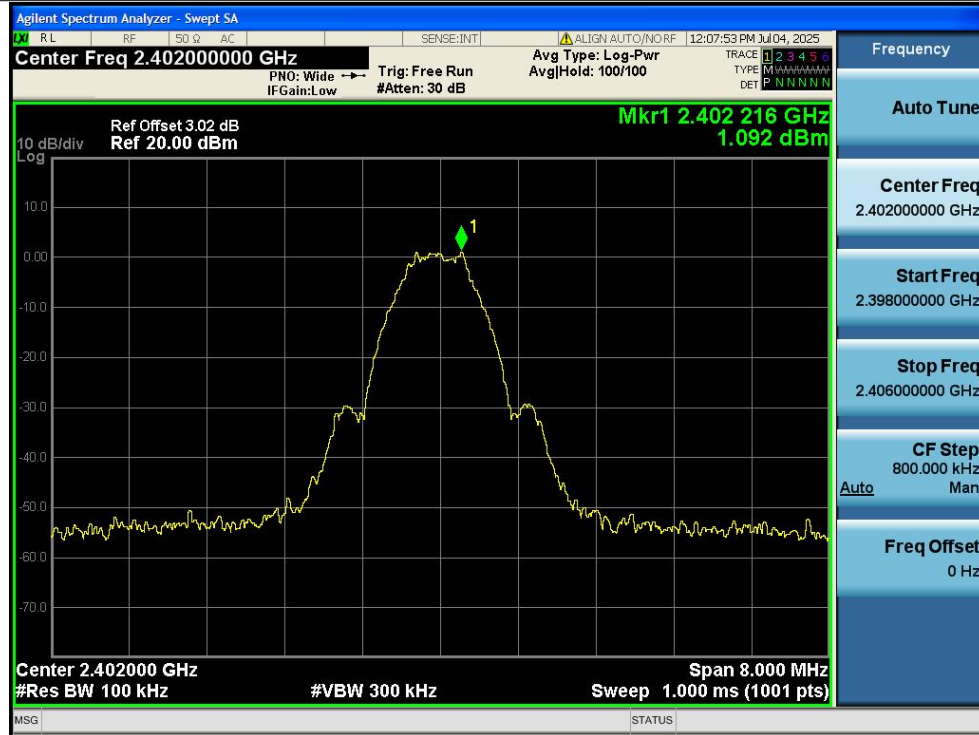


Band Edge

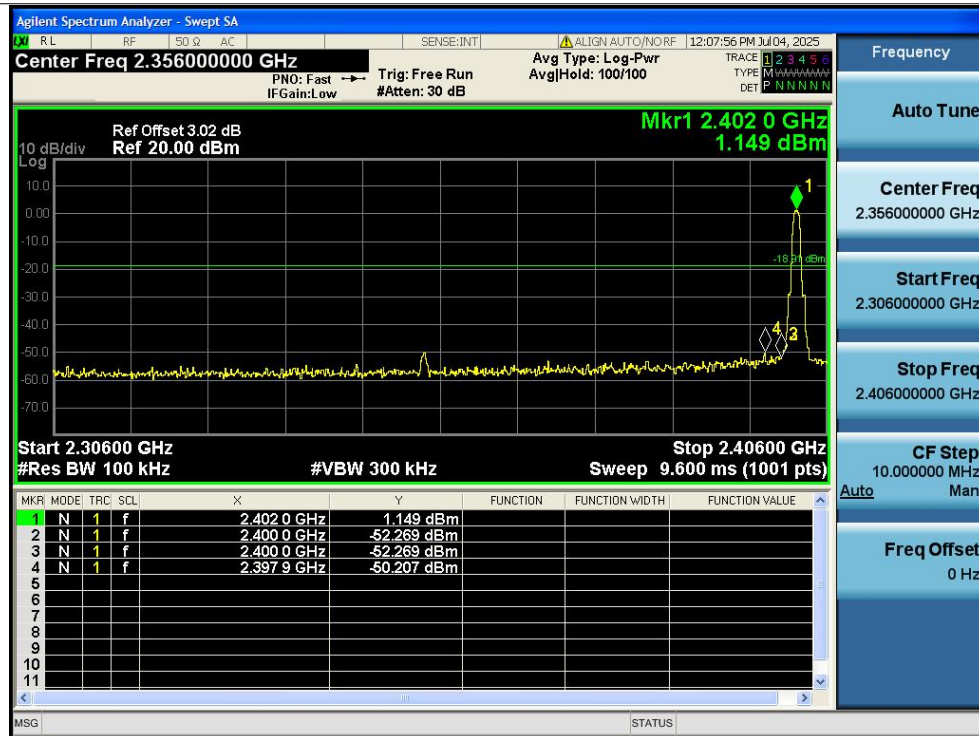
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-51.29	-20	Pass
NVNT	BLE 1M	2480	Ant1	-53	-20	Pass
NVNT	BLE 2M	2402	Ant1	-31.68	-20	Pass
NVNT	BLE 2M	2480	Ant1	-51.17	-20	Pass

Test Graphs

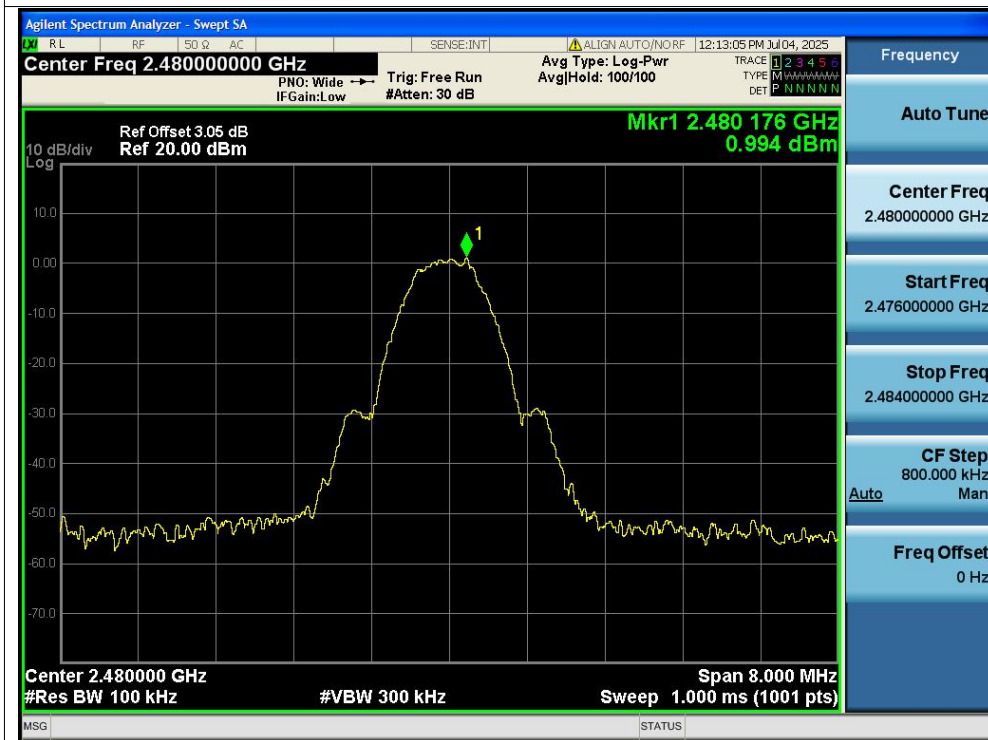
Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



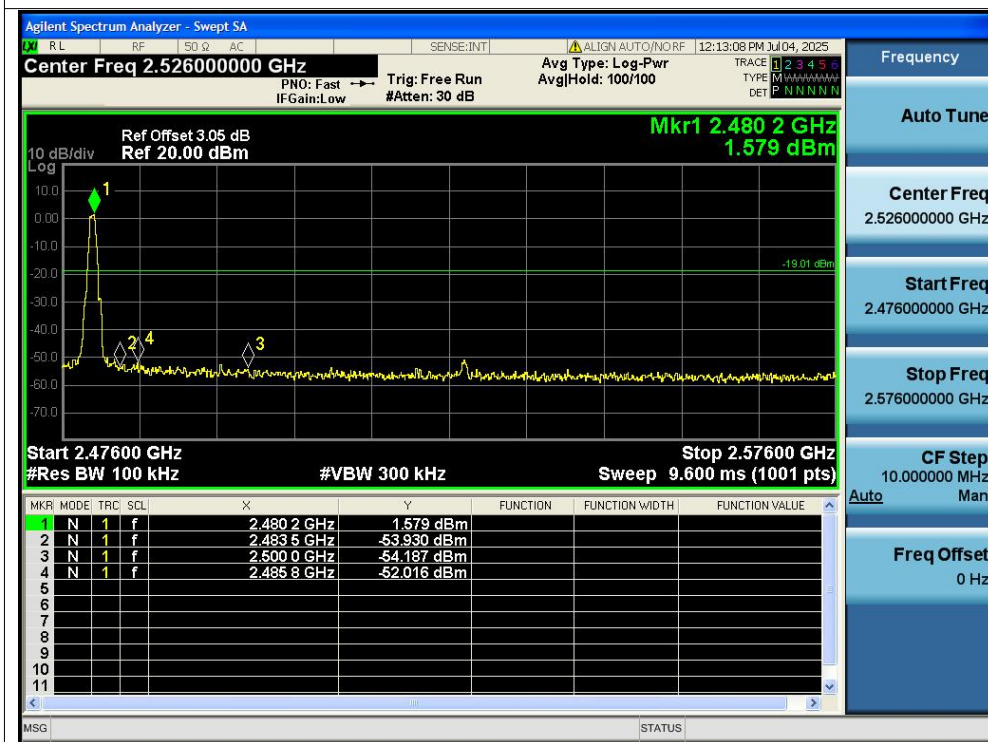
Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



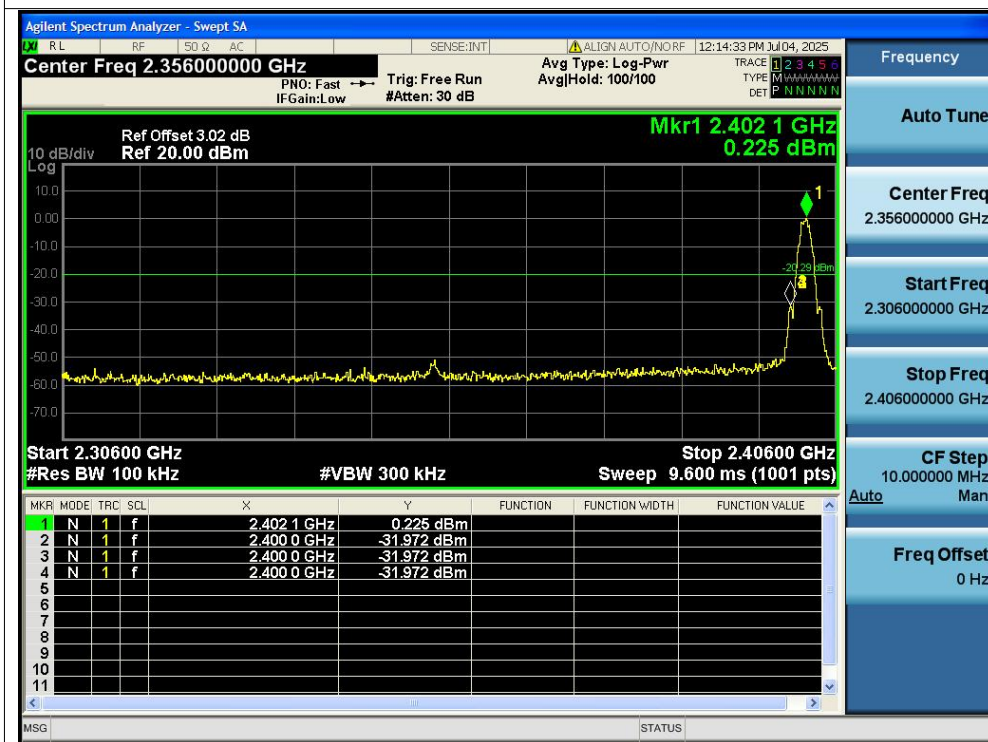
Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



Band Edge NVNT BLE 2M 2402MHz Ant1 Emission



Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



Band Edge NVNT BLE 2M 2480MHz Ant1 Emission

