

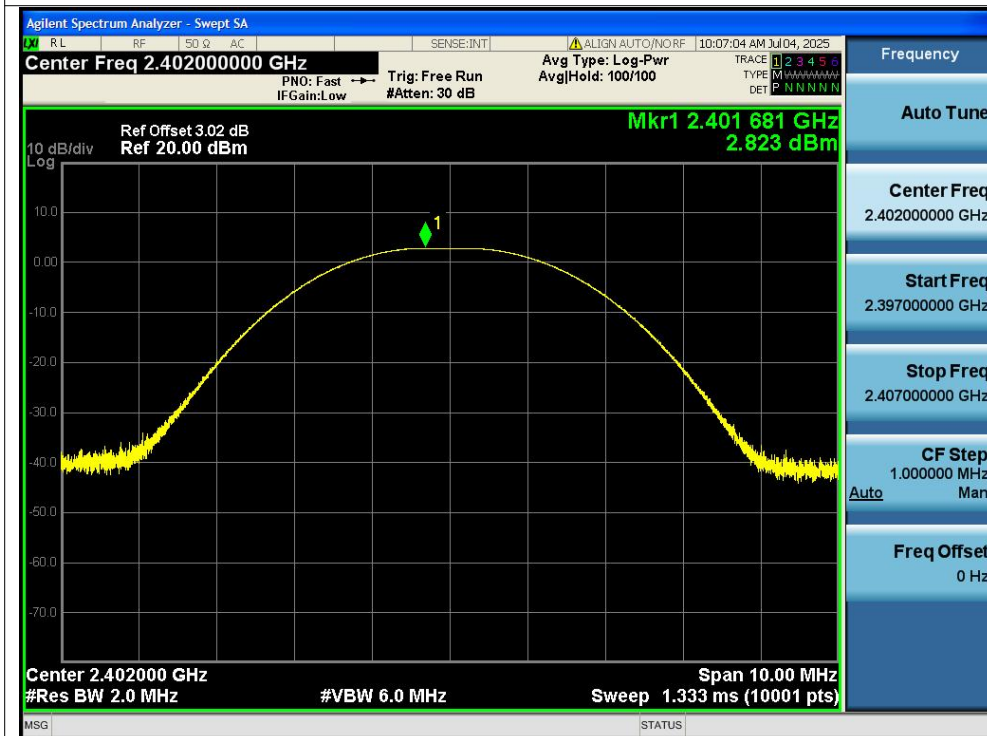
Appendix A BLE

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	2.82	-0.58	2.24	0.001674943	30	36	Pass
NVNT	BLE 1M	2440	Ant1	3.02	-0.58	2.44	0.001753881	30	36	Pass
NVNT	BLE 1M	2480	Ant1	2.92	-0.58	2.34	0.001713957	30	36	Pass
NVNT	BLE 2M	2402	Ant1	2.83	-0.58	2.25	0.001678804	30	36	Pass
NVNT	BLE 2M	2440	Ant1	3.04	-0.58	2.46	0.001761976	30	36	Pass
NVNT	BLE 2M	2480	Ant1	2.95	-0.58	2.37	0.001725838	30	36	Pass

Test Graphs

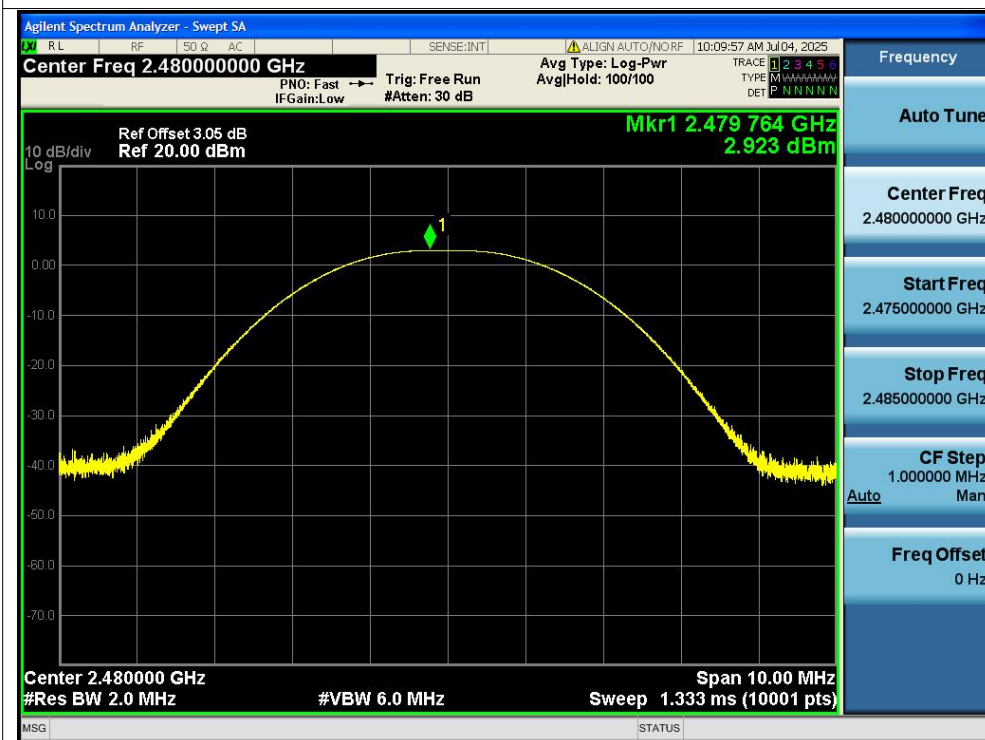
Power NVNT BLE 1M 2402MHz Ant1



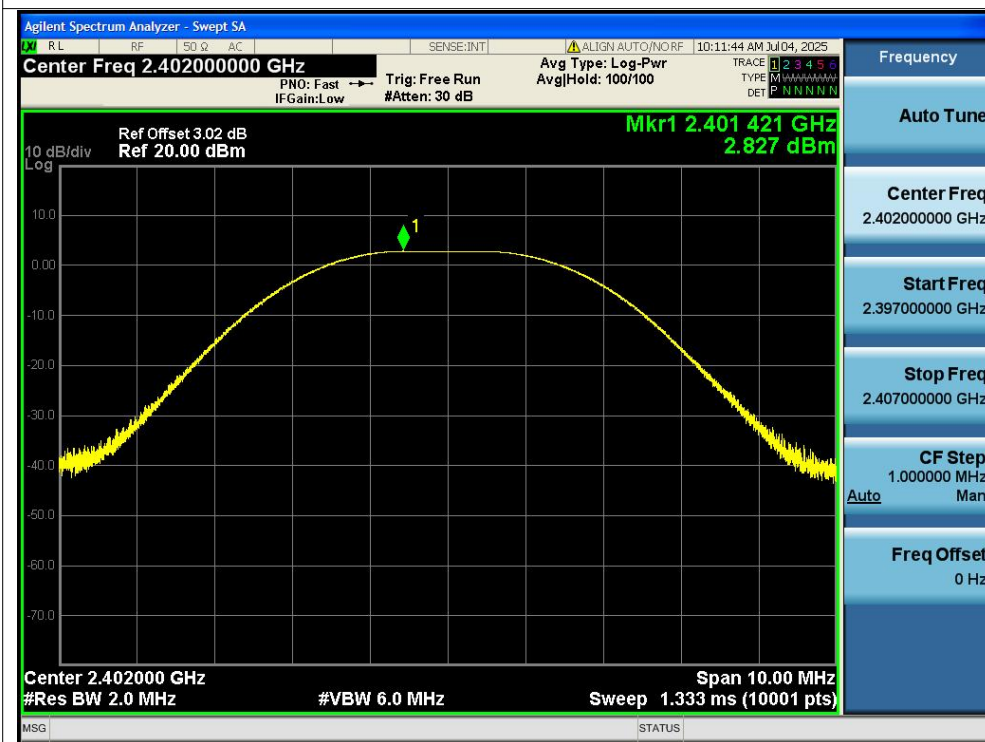
Power NVNT BLE 1M 2440MHz Ant1



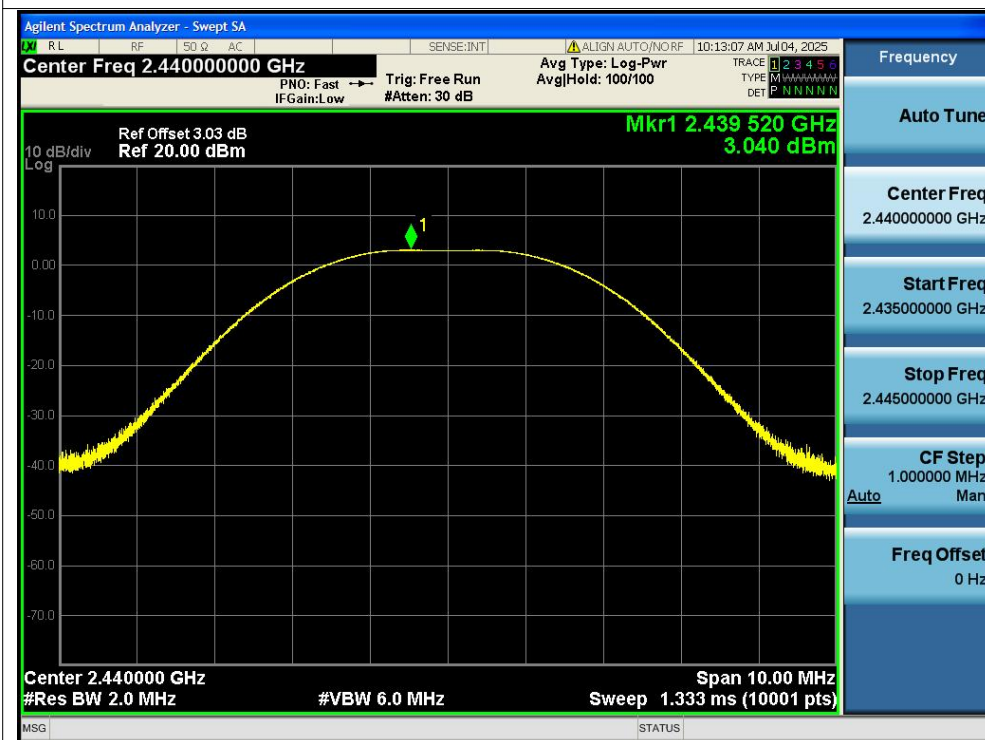
Power NVNT BLE 1M 2480MHz Ant1



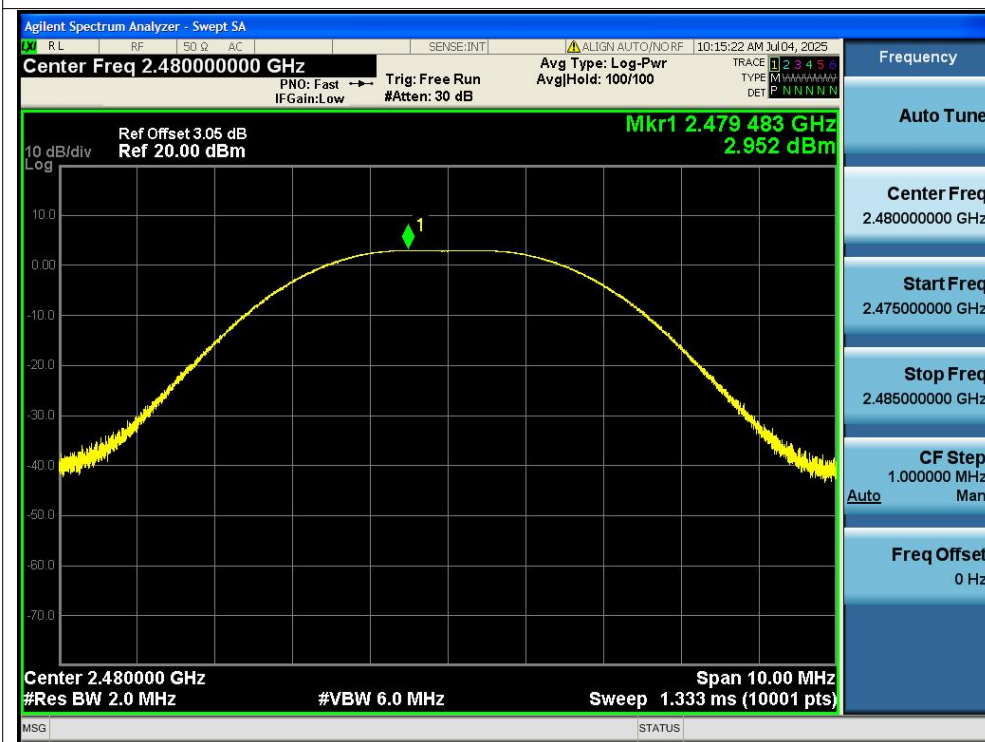
Power NVNT BLE 2M 2402MHz Ant1



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	0.694	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.716	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.704	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.269	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.239	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.261	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



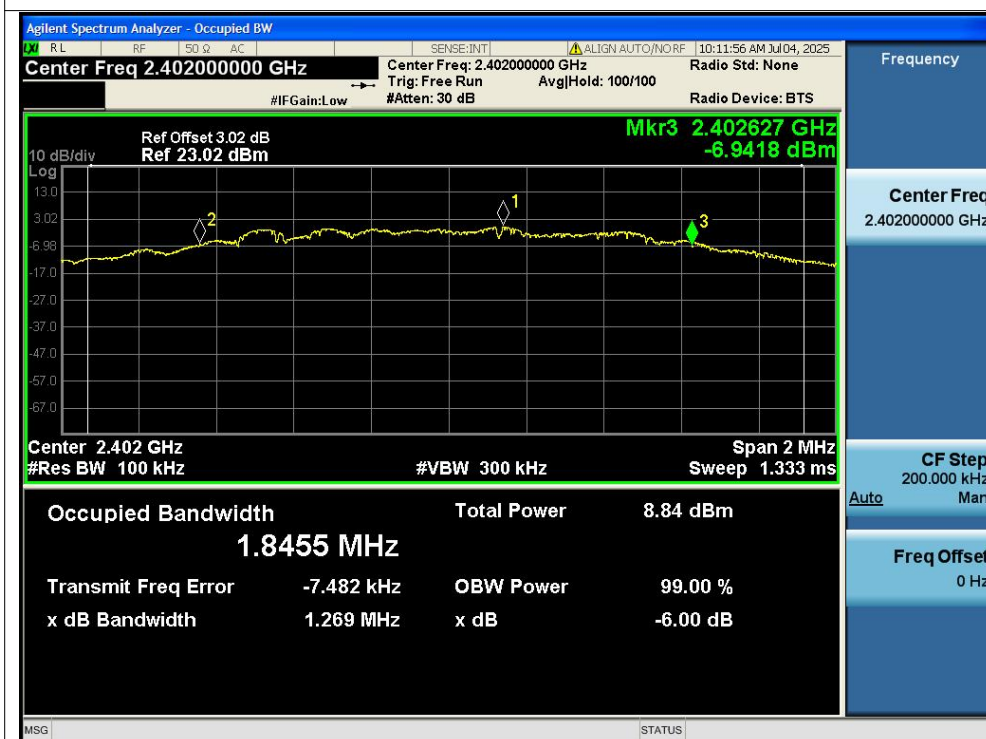
-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



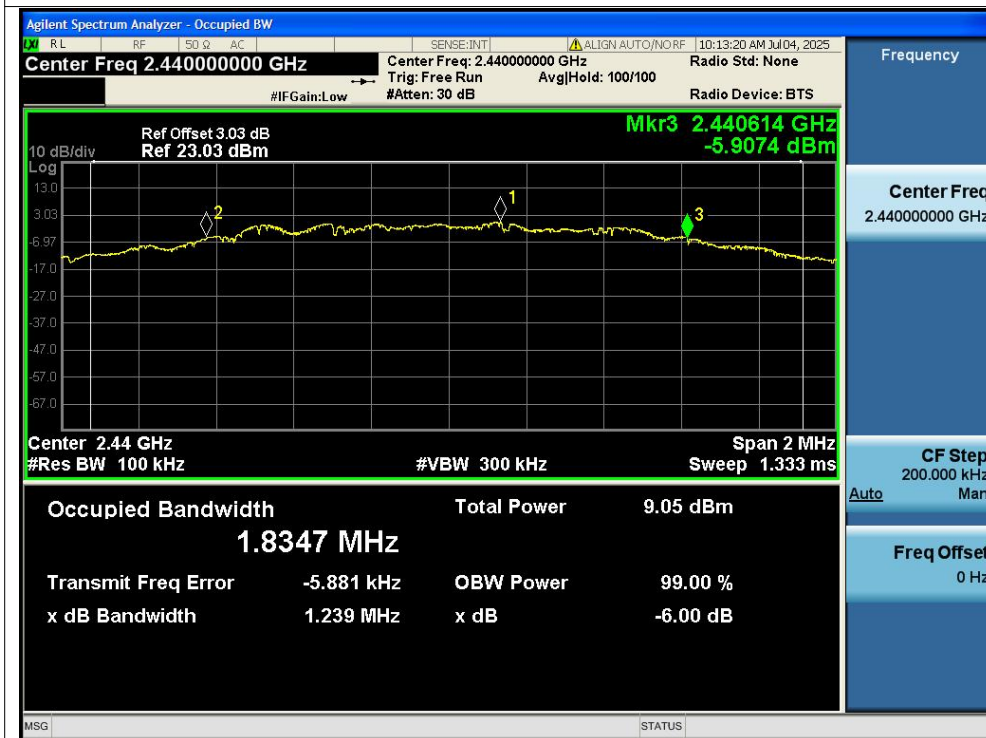
-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



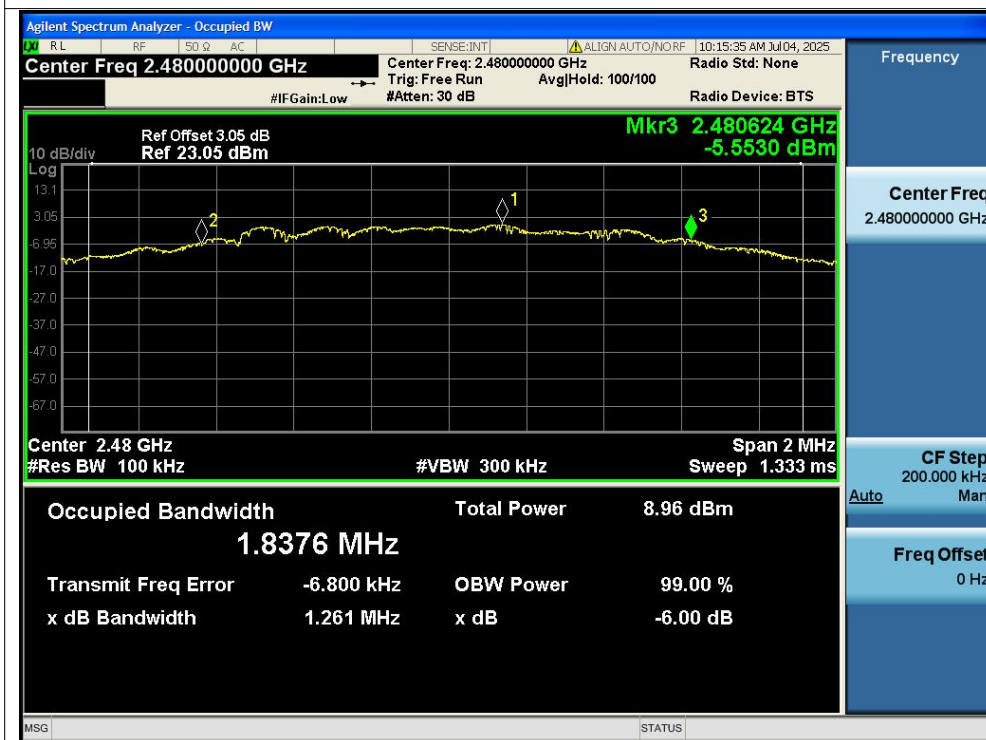
-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



-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	1.044
NVNT	BLE 1M	2440	Ant1	1.054
NVNT	BLE 1M	2480	Ant1	1.055
NVNT	BLE 2M	2402	Ant1	2.111
NVNT	BLE 2M	2440	Ant1	2.112
NVNT	BLE 2M	2480	Ant1	2.114

Test Graphs

OBW NVNT BLE 1M 2402MHz Ant1



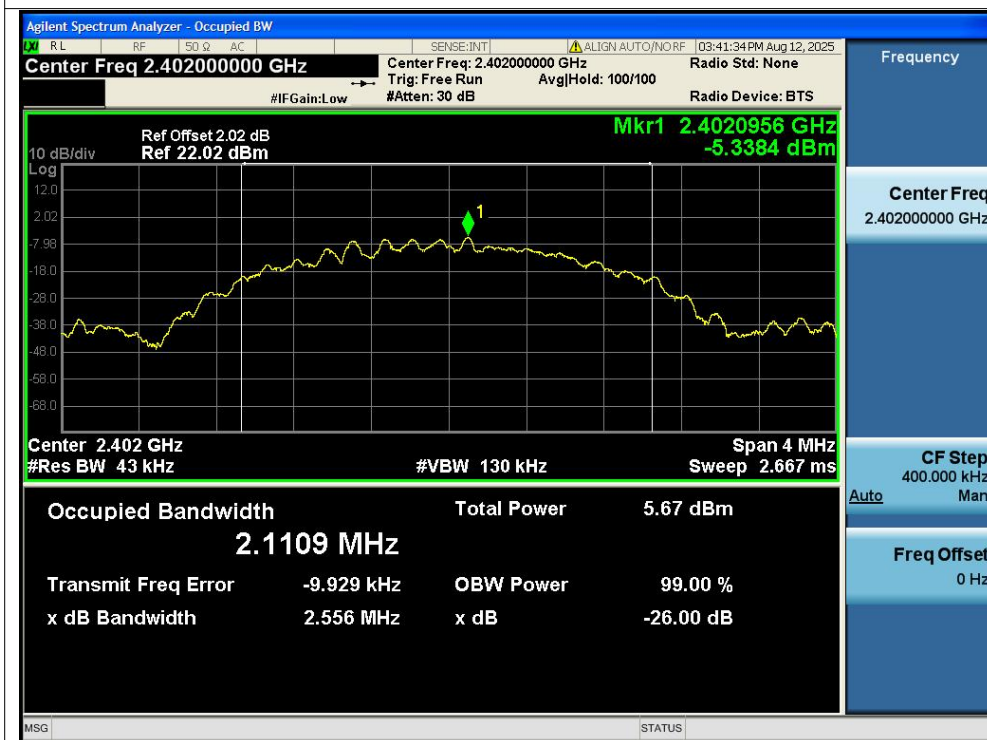
OBW NVNT BLE 1M 2440MHz Ant1



OBW NVNT BLE 1M 2480MHz Ant1



OBW NVNT BLE 2M 2402MHz Ant1



OBW NVNT BLE 2M 2440MHz Ant1



OBW NVNT BLE 2M 2480MHz Ant1



Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/100kHz)	Limit (dBm/100kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	1.86	8	Pass
NVNT	BLE 1M	2440	Ant1	2.11	8	Pass
NVNT	BLE 1M	2480	Ant1	2.01	8	Pass
NVNT	BLE 2M	2402	Ant1	0.26	8	Pass
NVNT	BLE 2M	2440	Ant1	0.42	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



PSD NVNT BLE 1M 2480MHz Ant1



PSD NVNT BLE 2M 2402MHz Ant1



PSD NVNT BLE 2M 2440MHz Ant1



PSD NVNT BLE 2M 2480MHz Ant1

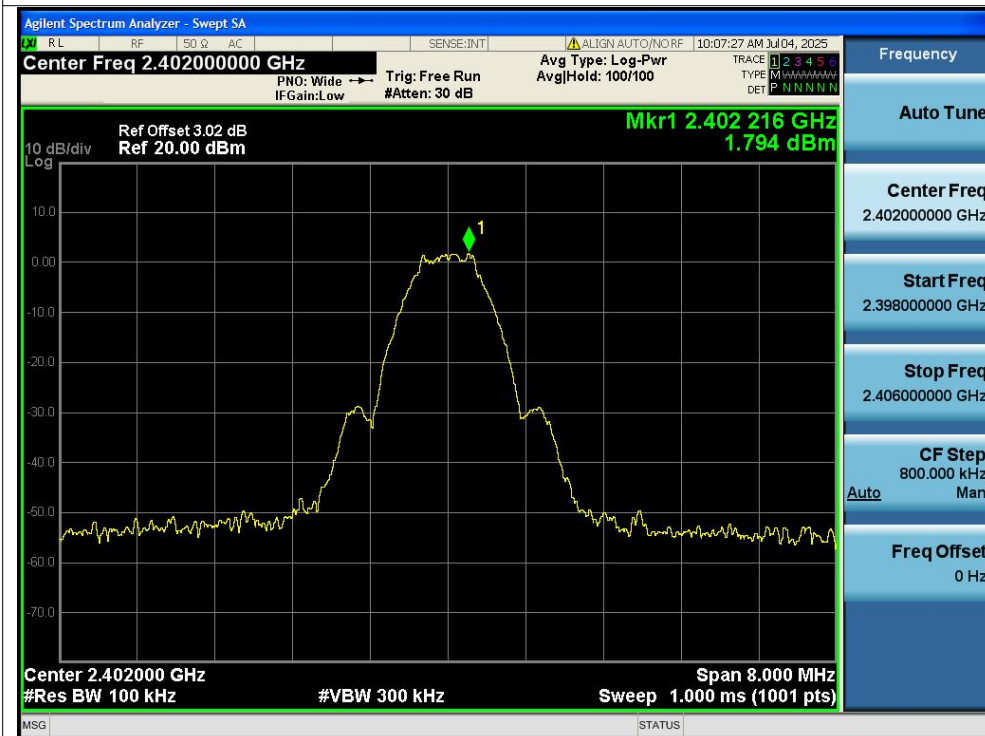


Band Edge

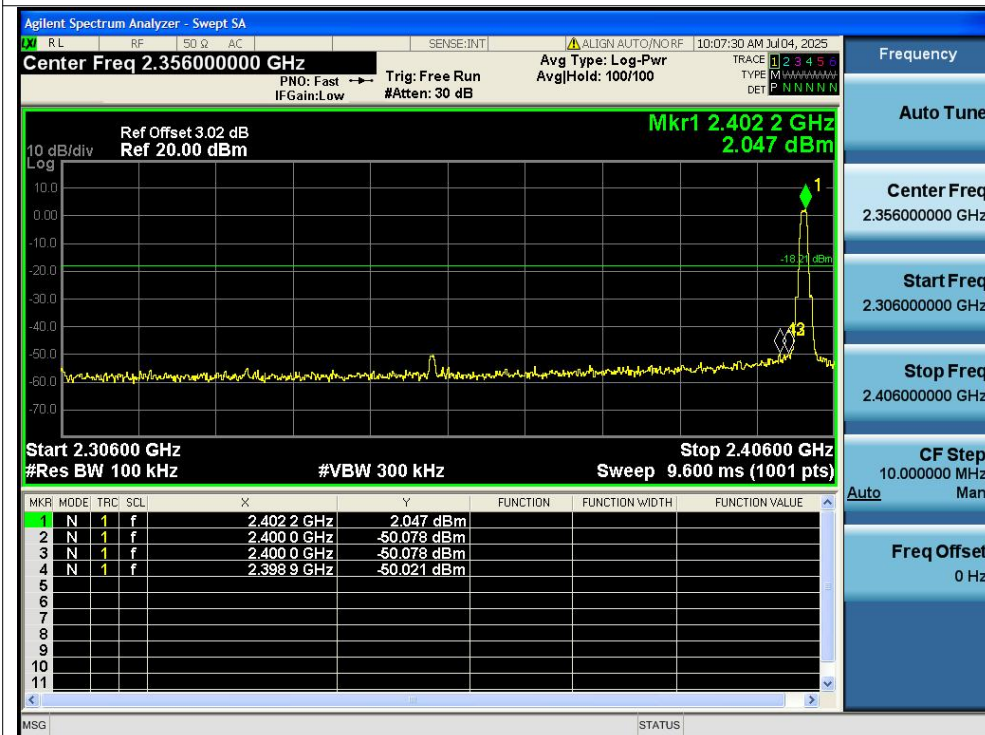
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-51.81	-20	Pass
NVNT	BLE 1M	2480	Ant1	-53.87	-20	Pass
NVNT	BLE 2M	2402	Ant1	-33.05	-20	Pass
NVNT	BLE 2M	2480	Ant1	-52.76	-20	Pass

Test Graphs

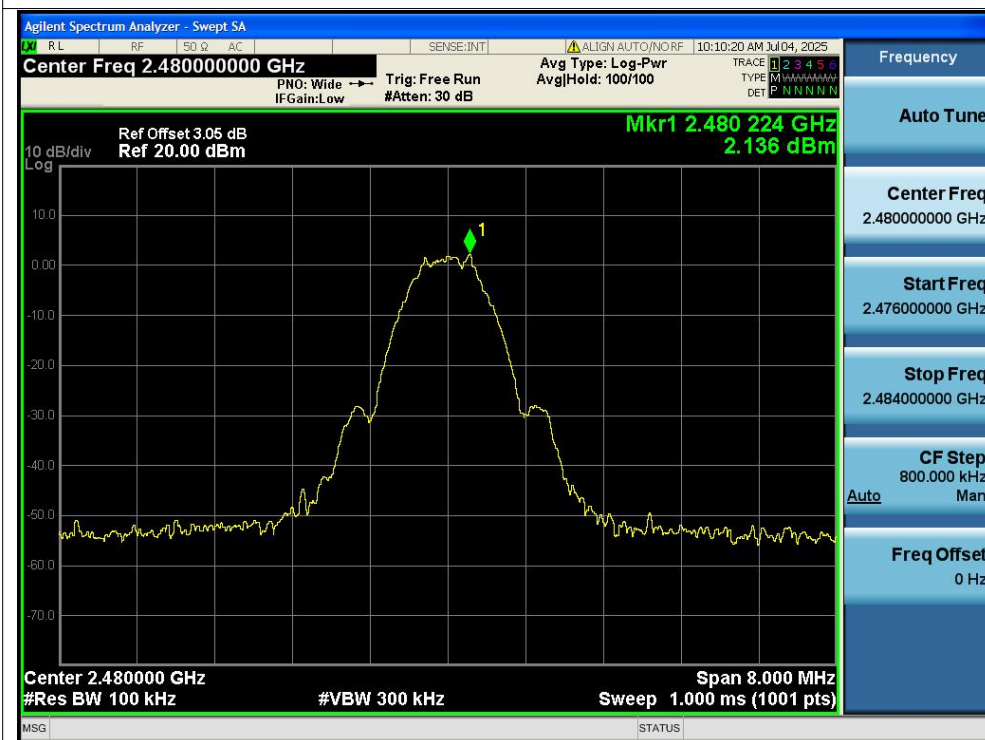
Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



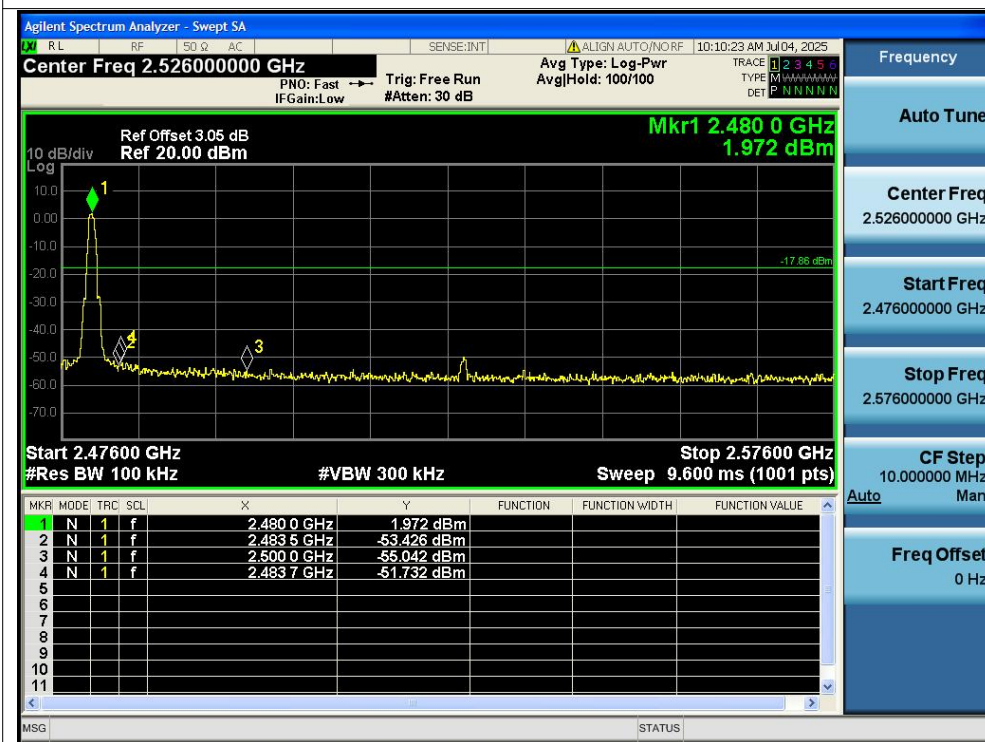
Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



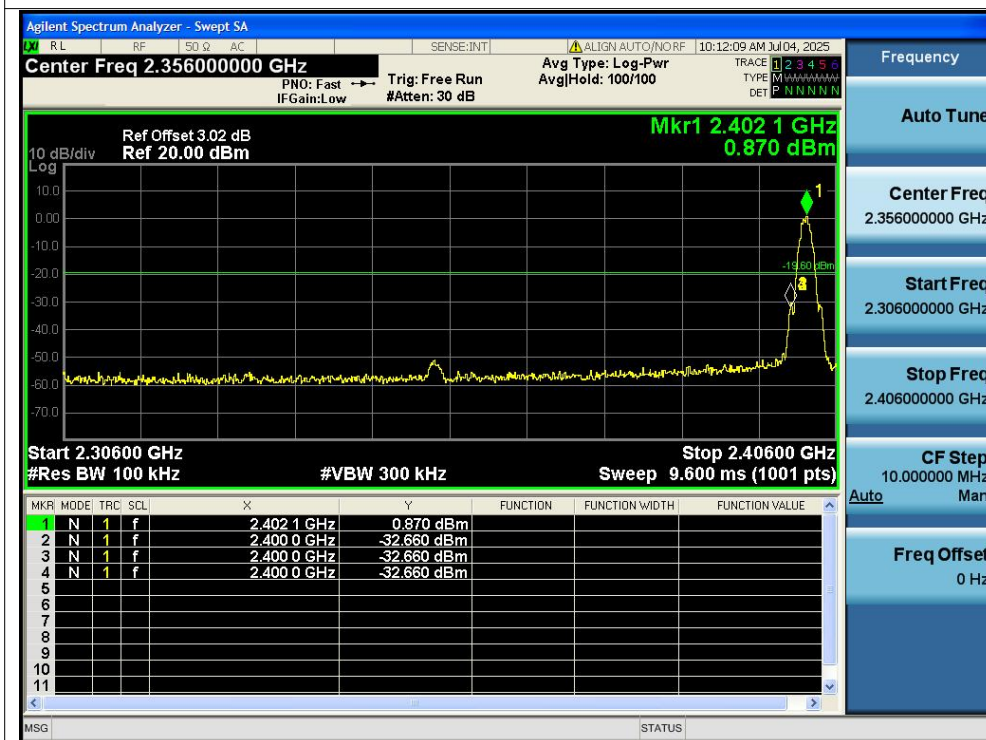
Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



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

