

Appendix B

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)	Final settingFor VBW (kHz)
NVNT	Thread	2405	Ant1	0	0	100	0	0	1
NVNT	Thread	2440	Ant1	0	0	100	0	0	1
NVNT	Thread	2480	Ant1	0	0	100	0	0	1

Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Antenna Gain (dBi)	E.i.r.p. (dBm)	Limit (dBm)	Verdict
NVNT	Thread	2405	Ant1	4.94	0	4.94	30	2.15	7.09	36.02	Pass
NVNT	Thread	2440	Ant1	4.91	0	4.91	30	2.15	7.06	36.02	Pass
NVNT	Thread	2480	Ant1	5.33	0	5.33	30	2.15	7.48	36.02	Pass

Test Graphs

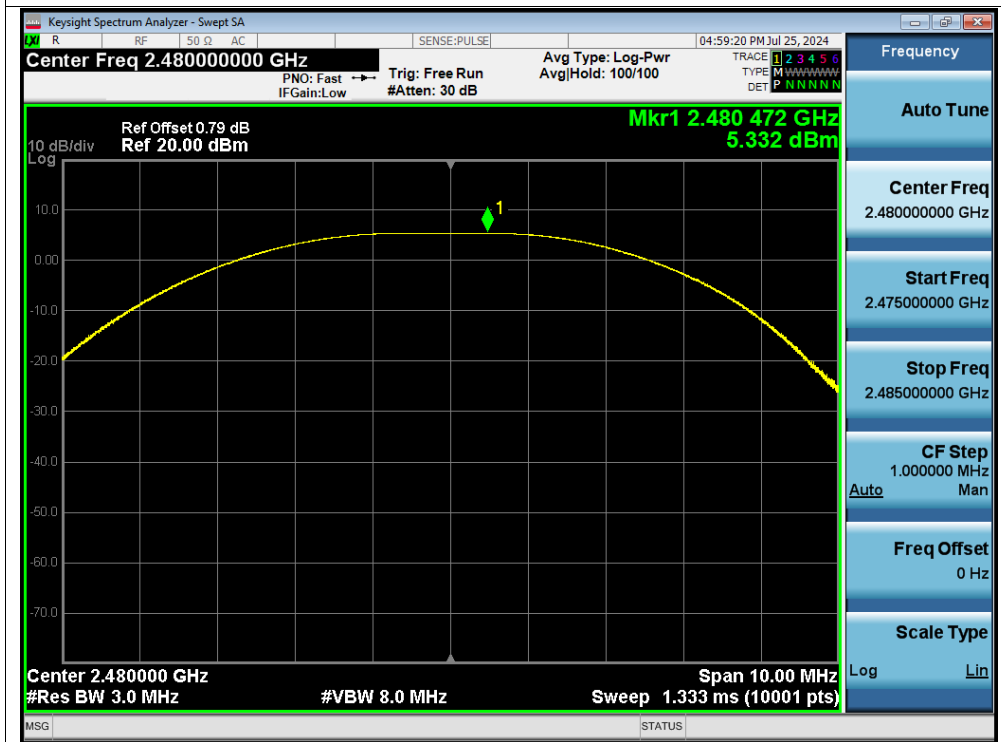
Power NVNT Thread 2405MHz Ant1



Power NVNT Thread 2440MHz Ant1



Power NVNT Thread 2480MHz Ant1



-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	Thread	2405	Ant1	1.62	0.5	Pass
NVNT	Thread	2440	Ant1	1.63	0.5	Pass
NVNT	Thread	2480	Ant1	1.63	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT Thread 2405MHz Ant1



-6dB Bandwidth NVNT Thread 2440MHz Ant1



-6dB Bandwidth NVNT Thread 2480MHz Ant1



Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	Thread	2405	Ant1	2.233
NVNT	Thread	2440	Ant1	2.236
NVNT	Thread	2480	Ant1	2.242

Test Graphs

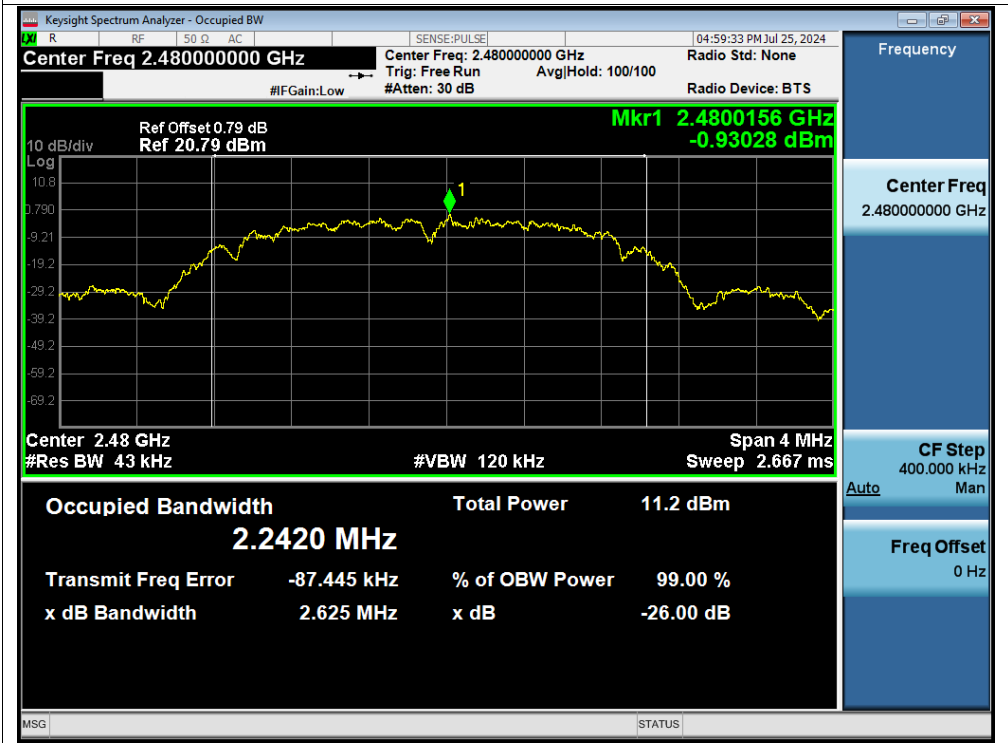
OBW NVNT Thread 2405MHz Ant1



OBW NVNT Thread 2440MHz Ant1



OBW NVNT Thread 2480MHz Ant1



Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	Thread	2405	Ant1	-11.24	0	-11.24	8	Pass
NVNT	Thread	2440	Ant1	-10.64	0	-10.64	8	Pass
NVNT	Thread	2480	Ant1	-10.36	0	-10.36	8	Pass

Test Graphs

PSD NVNT Thread 2405MHz Ant1



PSD NVNT Thread 2440MHz Ant1



PSD NVNT Thread 2480MHz Ant1



Band Edge

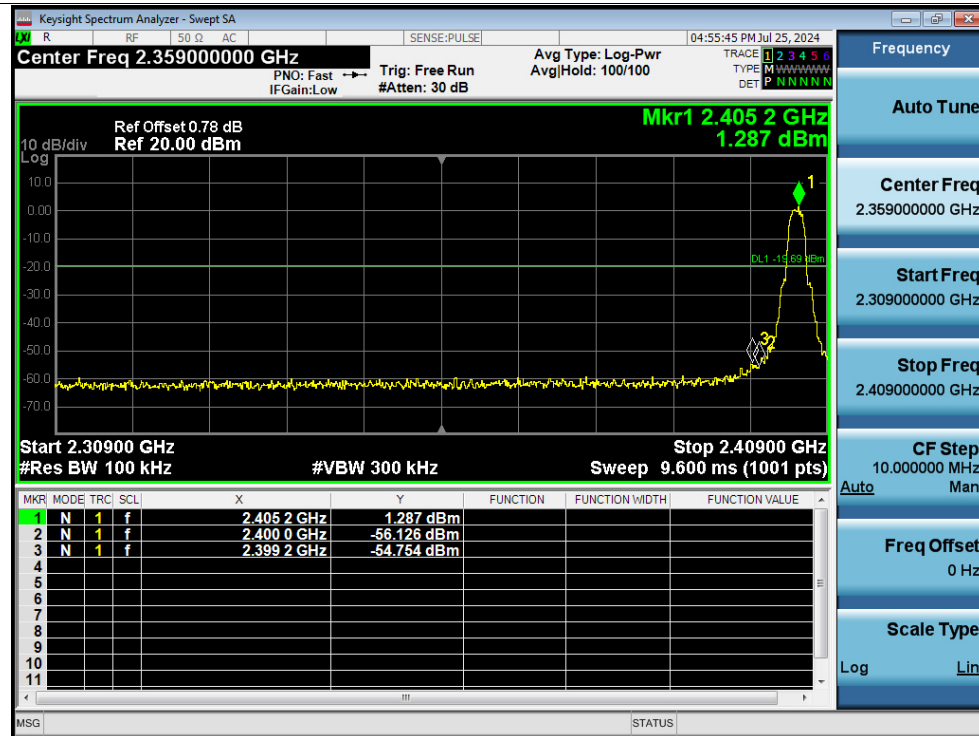
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	Thread	2405	Ant1	-55.06	-20	Pass
NVNT	Thread	2480	Ant1	-51.79	-20	Pass

Test Graphs

Band Edge NVNT Thread 2405MHz Ant1 Ref



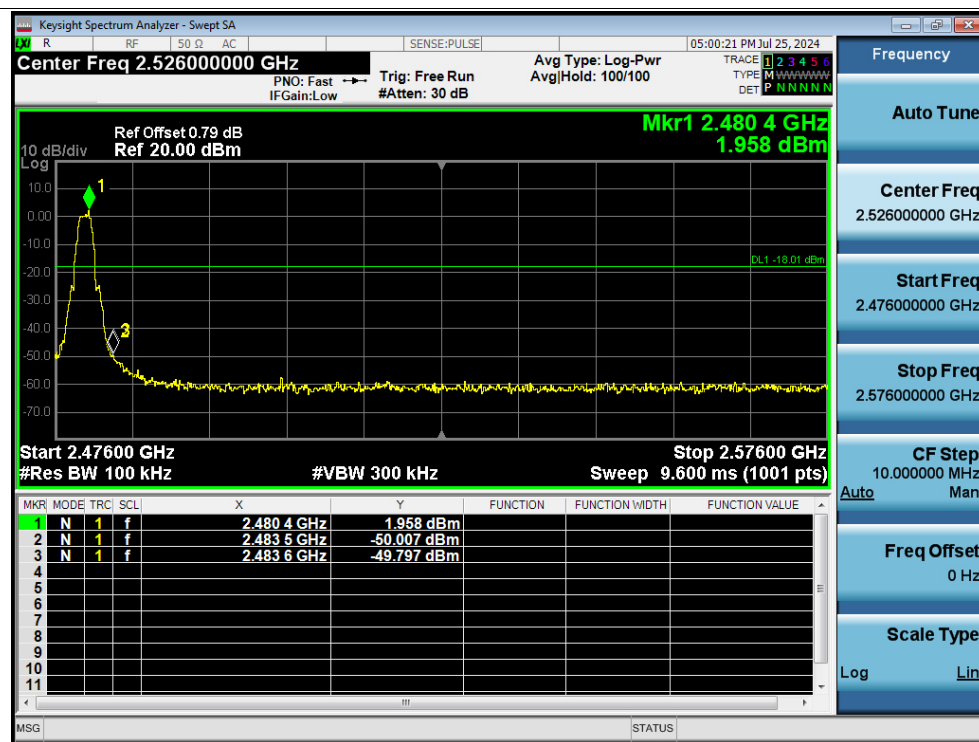
Band Edge NVNT Thread 2405MHz Ant1 Emission



Band Edge NVNT Thread 2480MHz Ant1 Ref



Band Edge NVNT Thread 2480MHz Ant1 Emission



Conducted RF Spurious Emission

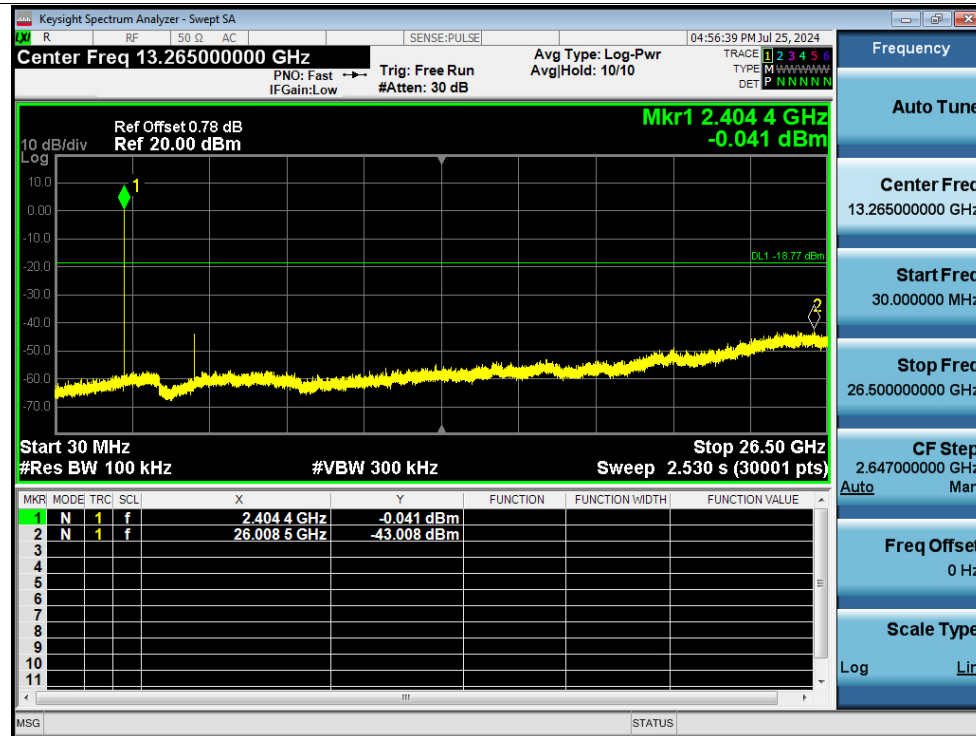
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	Thread	2405	Ant1	-44.24	-20	Pass
NVNT	Thread	2440	Ant1	-43.29	-20	Pass
NVNT	Thread	2480	Ant1	-44.6	-20	Pass

Test Graphs

Tx. Spurious NVNT Thread 2405MHz Ant1 Ref



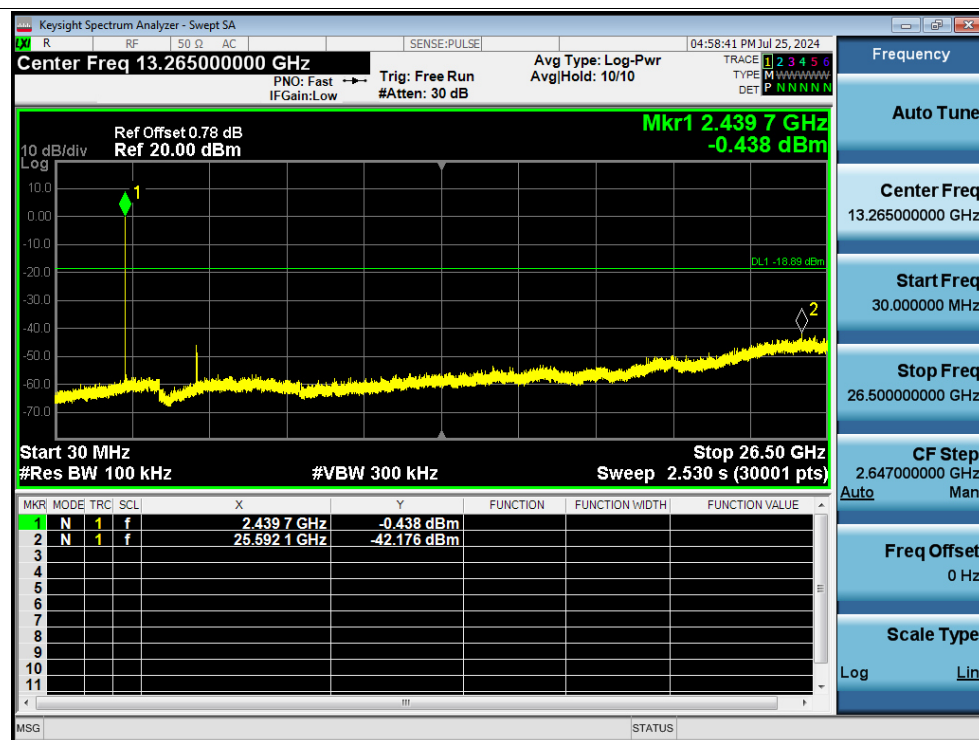
Tx. Spurious NVNT Thread 2405MHz Ant1 Emission



Tx. Spurious NVNT Thread 2440MHz Ant1 Ref



Tx. Spurious NVNT Thread 2440MHz Ant1 Emission



Tx. Spurious NVNT Thread 2480MHz Ant1 Ref



Tx. Spurious NVNT Thread 2480MHz Ant1 Emission

