

Appendix D

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	63.2	1.99	2.53
NVNT	BLE 1M	2440	Ant1	63.2	1.99	2.53
NVNT	BLE 1M	2480	Ant1	63.2	1.99	2.53
NVNT	BLE 2M	2402	Ant1	33.57	4.74	4.76
NVNT	BLE 2M	2440	Ant1	33.52	4.75	4.77
NVNT	BLE 2M	2480	Ant1	33.52	4.75	4.77

Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	5.21	0	5.21	30	Pass
NVNT	BLE 1M	2440	Ant1	4.48	0	4.48	30	Pass
NVNT	BLE 1M	2480	Ant1	3.9	0	3.9	30	Pass
NVNT	BLE 2M	2402	Ant1	5.55	0	5.55	30	Pass
NVNT	BLE 2M	2440	Ant1	4.81	0	4.81	30	Pass
NVNT	BLE 2M	2480	Ant1	4.21	0	4.21	30	Pass

Test Graphs

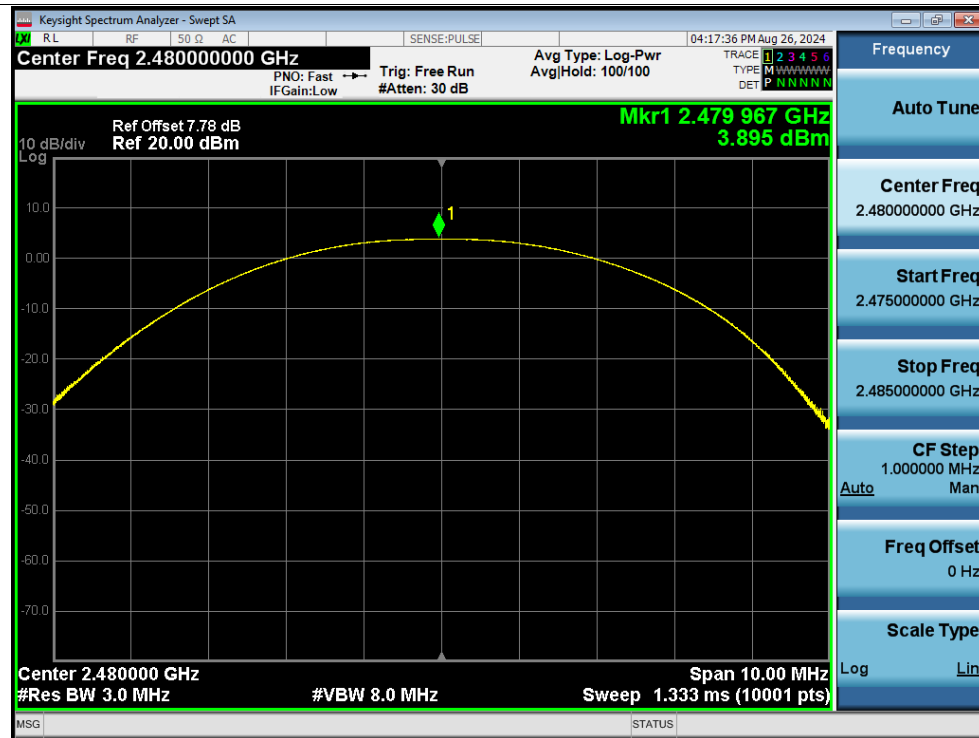
Power NVNT BLE 1M 2402MHz Ant1



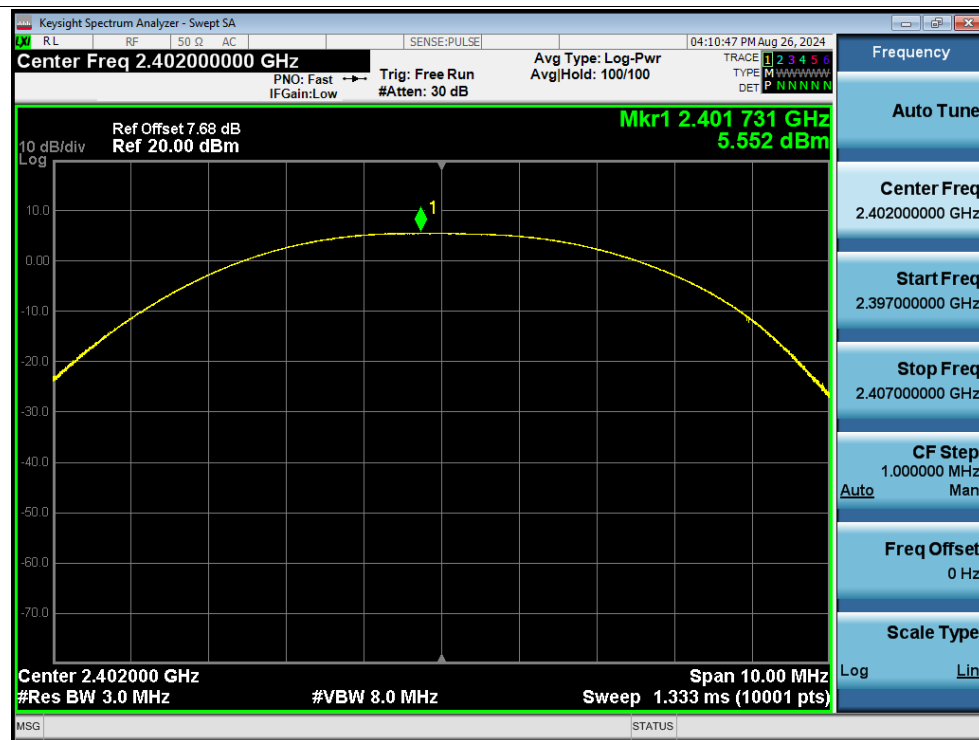
Power NVNT BLE 1M 2440MHz Ant1



Power NVNT BLE 1M 2480MHz Ant1



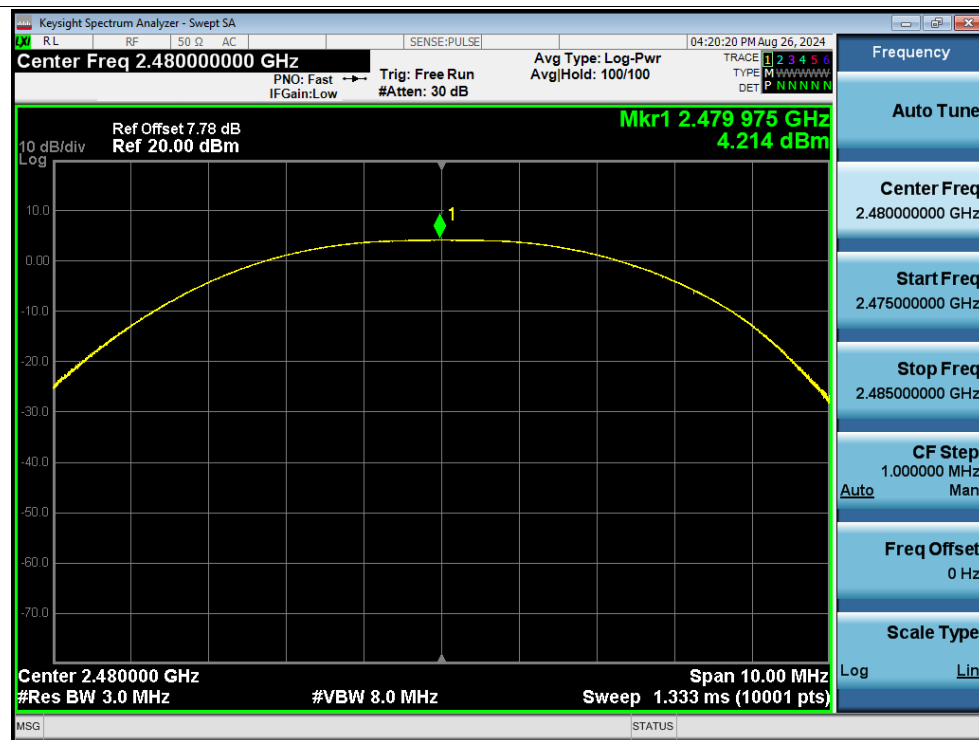
Power NVNT BLE 2M 2402MHz Ant1



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	0.64	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.65	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.65	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.11	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.07	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.08	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



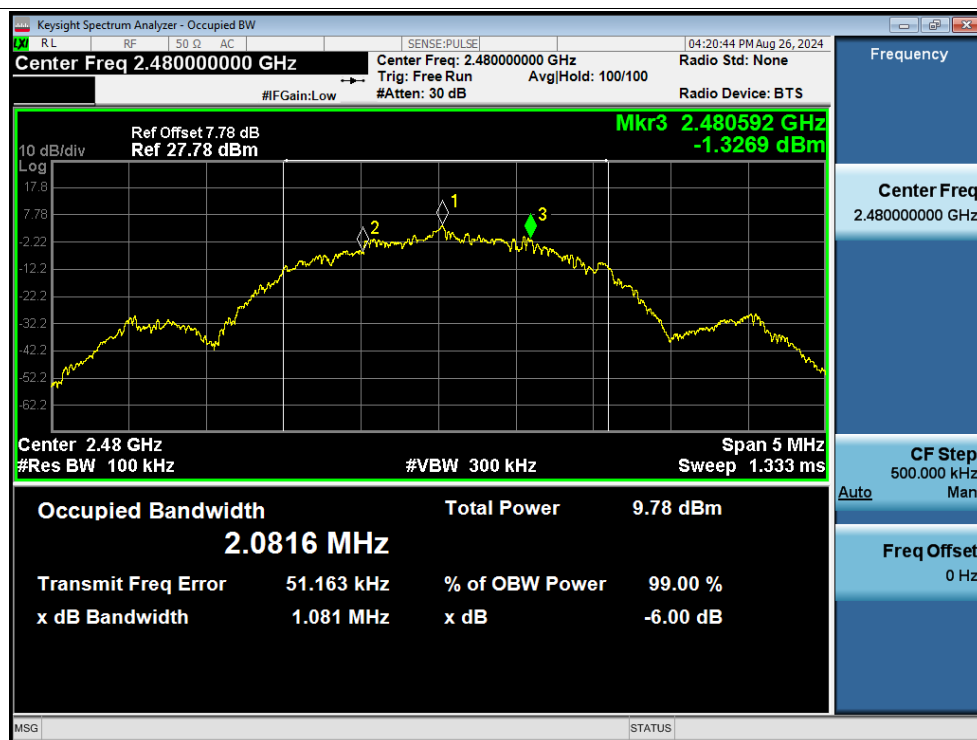
-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1

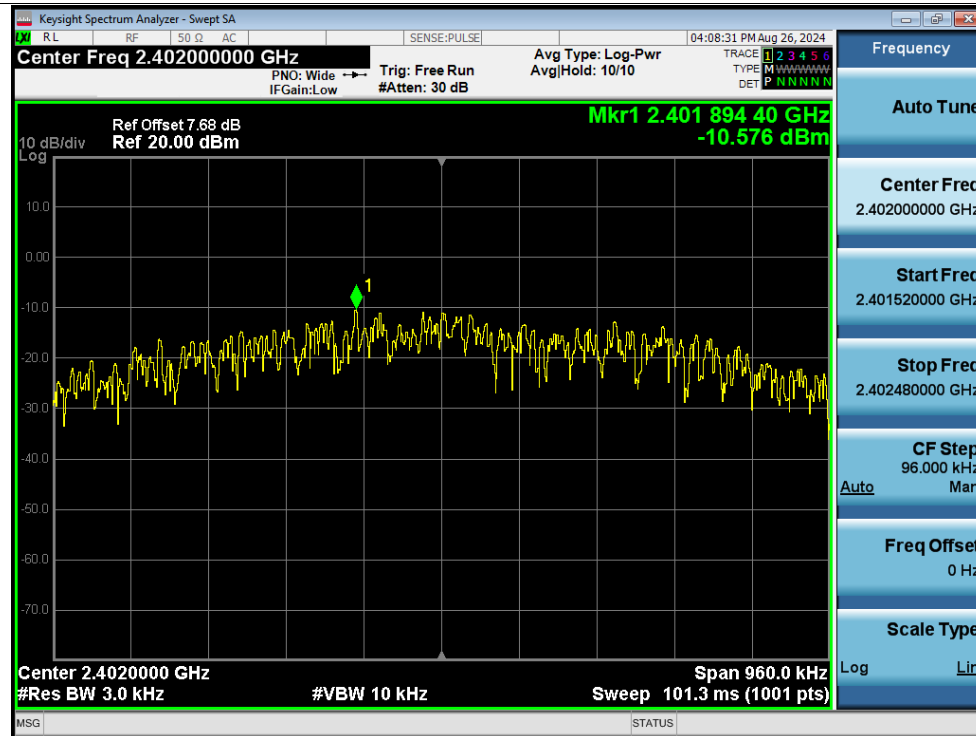


Maximum Power Spectral Density Level

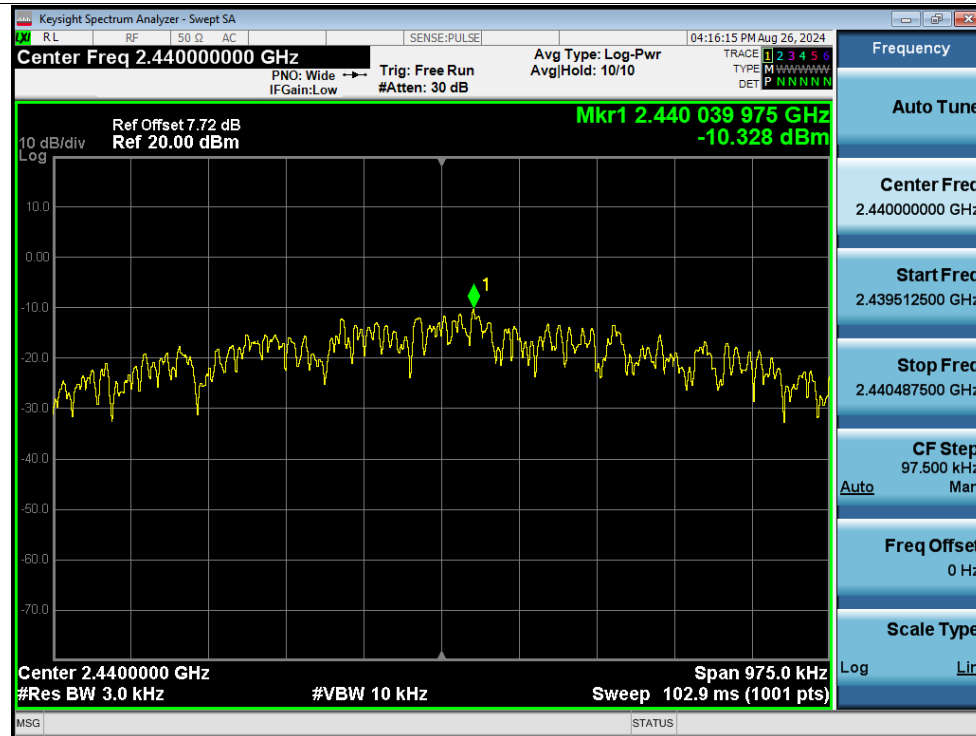
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-10.58	0	-10.58	8	Pass
NVNT	BLE 1M	2440	Ant1	-10.33	0	-10.33	8	Pass
NVNT	BLE 1M	2480	Ant1	-12.41	0	-12.41	8	Pass
NVNT	BLE 2M	2402	Ant1	-11.15	0	-11.15	8	Pass
NVNT	BLE 2M	2440	Ant1	-13.47	0	-13.47	8	Pass
NVNT	BLE 2M	2480	Ant1	-13.74	0	-13.74	8	Pass

Test Graphs

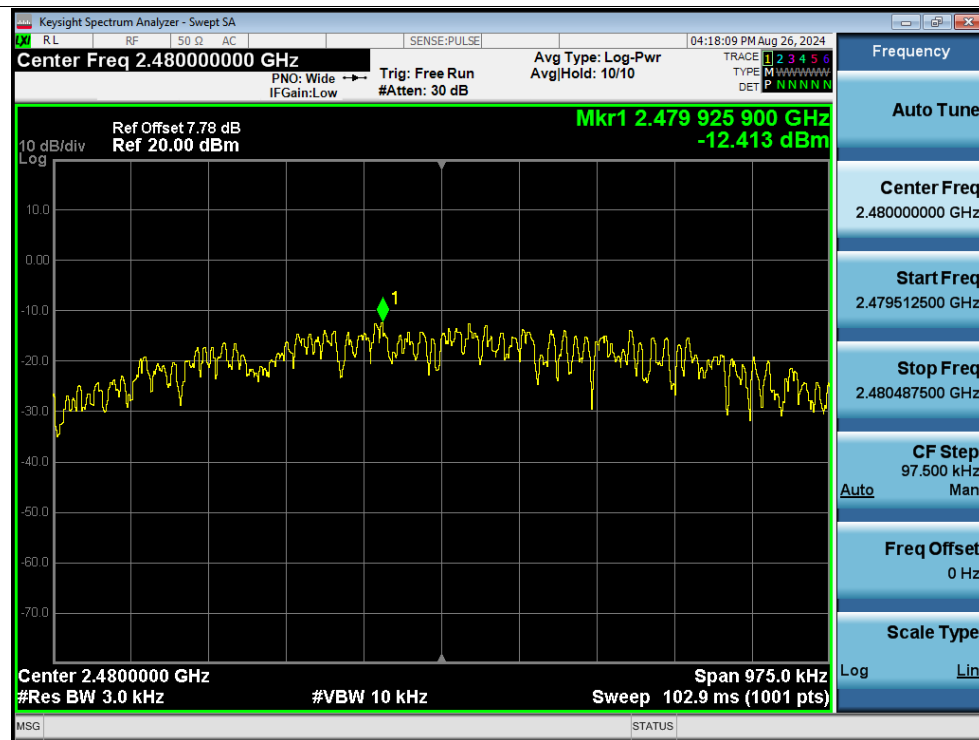
PSD NVNT BLE 1M 2402MHz Ant1



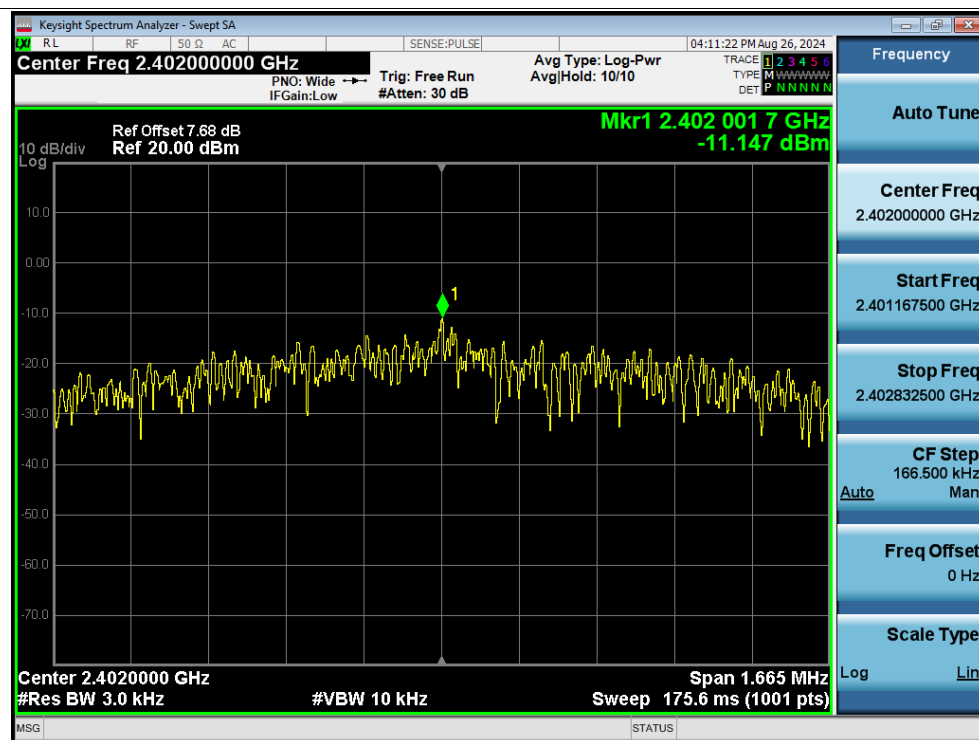
PSD NVNT BLE 1M 2440MHz Ant1



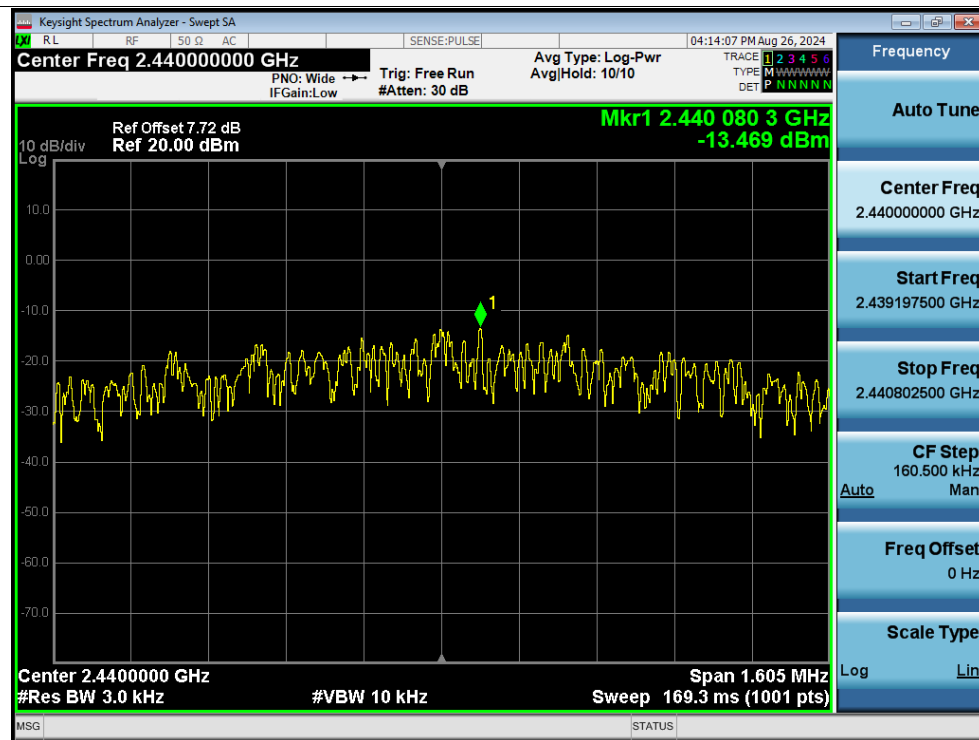
PSD NVNT BLE 1M 2480MHz Ant1



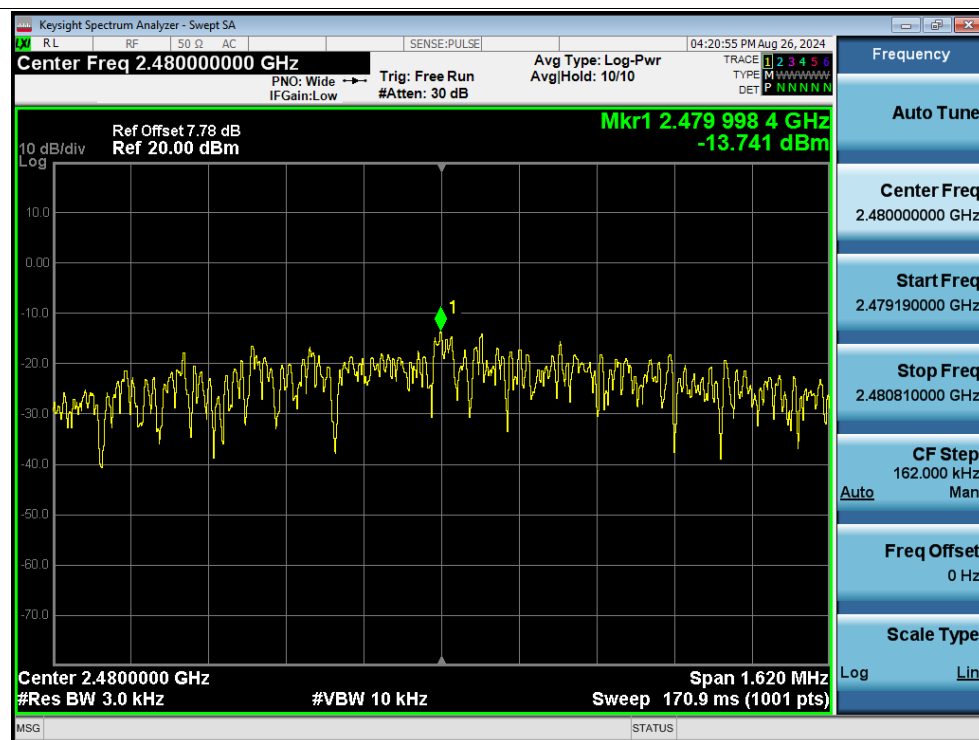
PSD NVNT BLE 2M 2402MHz Ant1



PSD NVNT BLE 2M 2440MHz Ant1



PSD NVNT BLE 2M 2480MHz Ant1

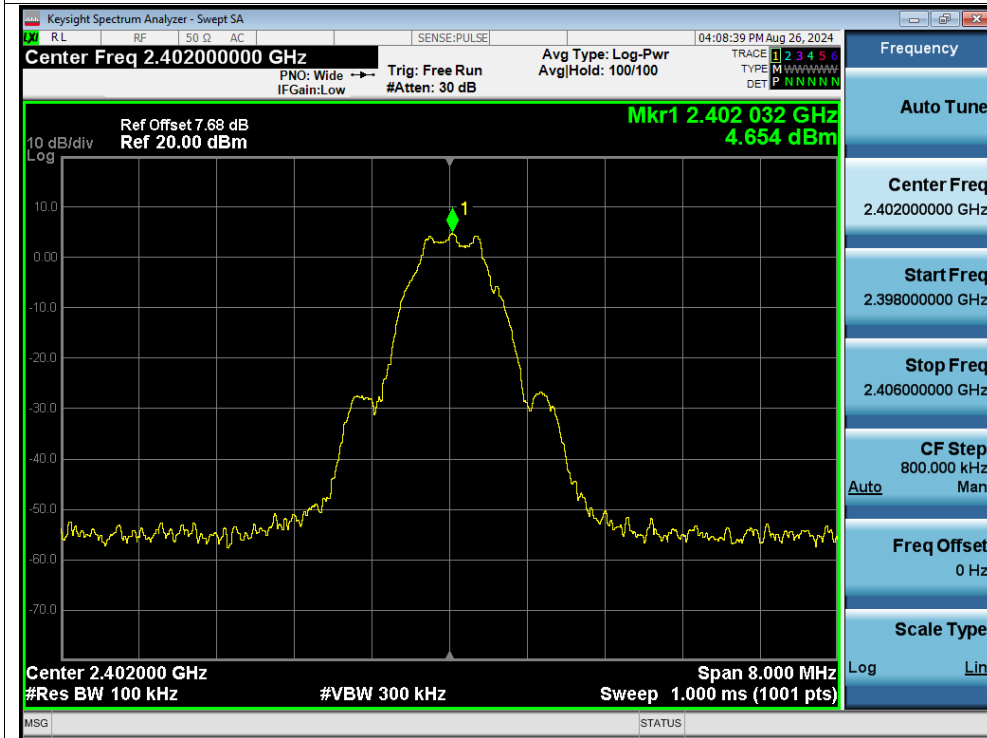


Band Edge

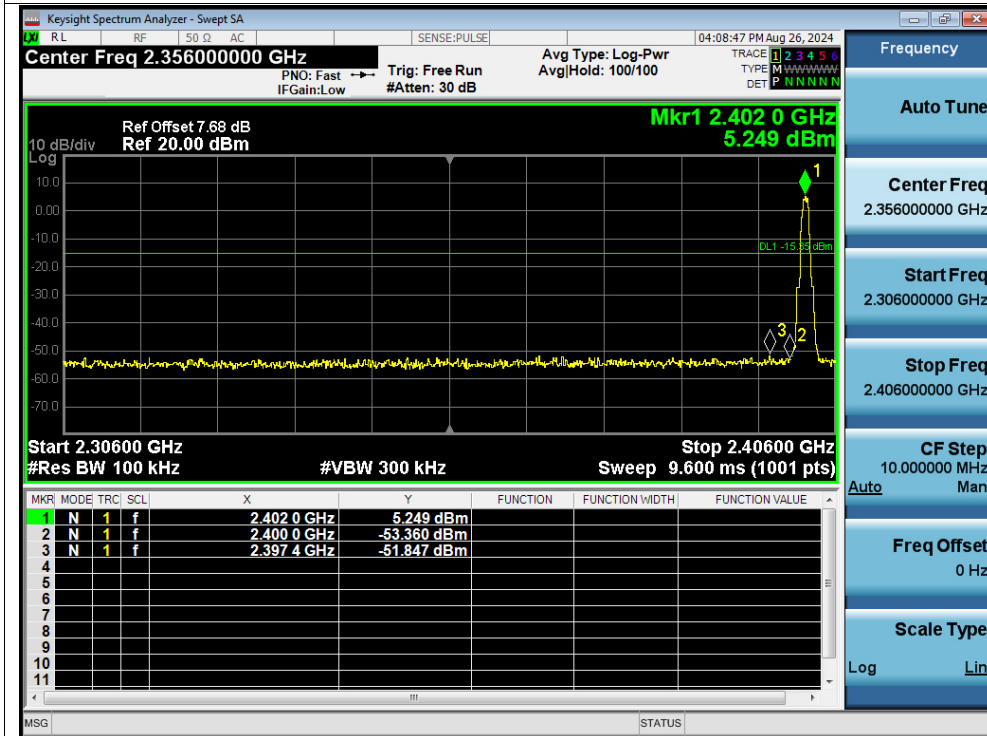
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-56.504	-20	Pass
NVNT	BLE 1M	2480	Ant1	-55.862	-20	Pass
NVNT	BLE 2M	2402	Ant1	-32.793	-20	Pass
NVNT	BLE 2M	2480	Ant1	-55.321	-20	Pass

Test Graphs

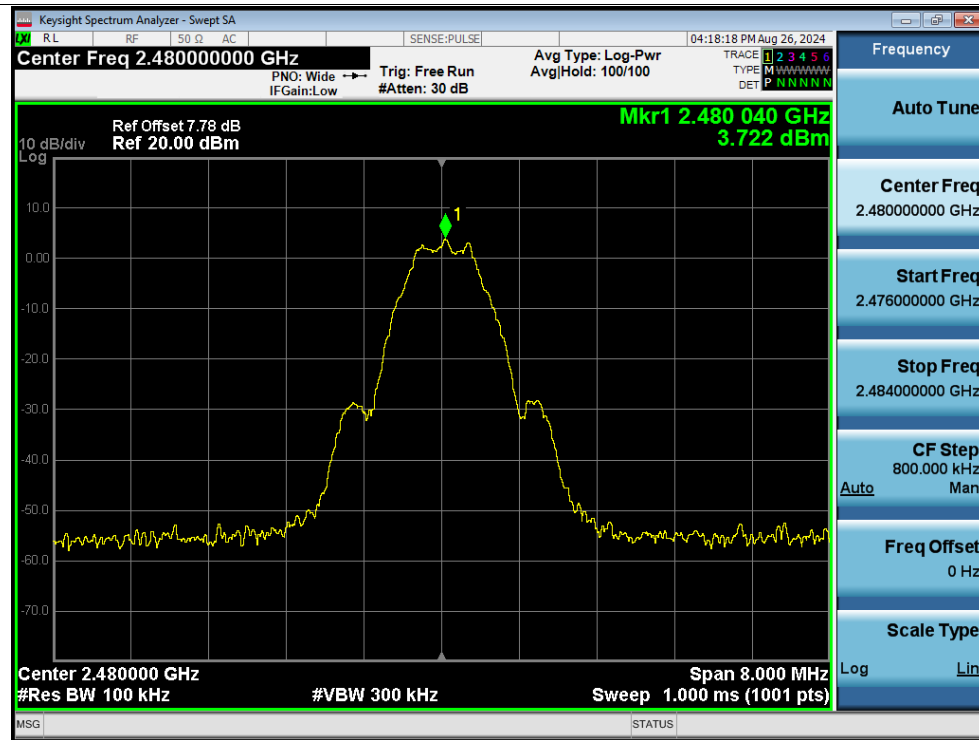
Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



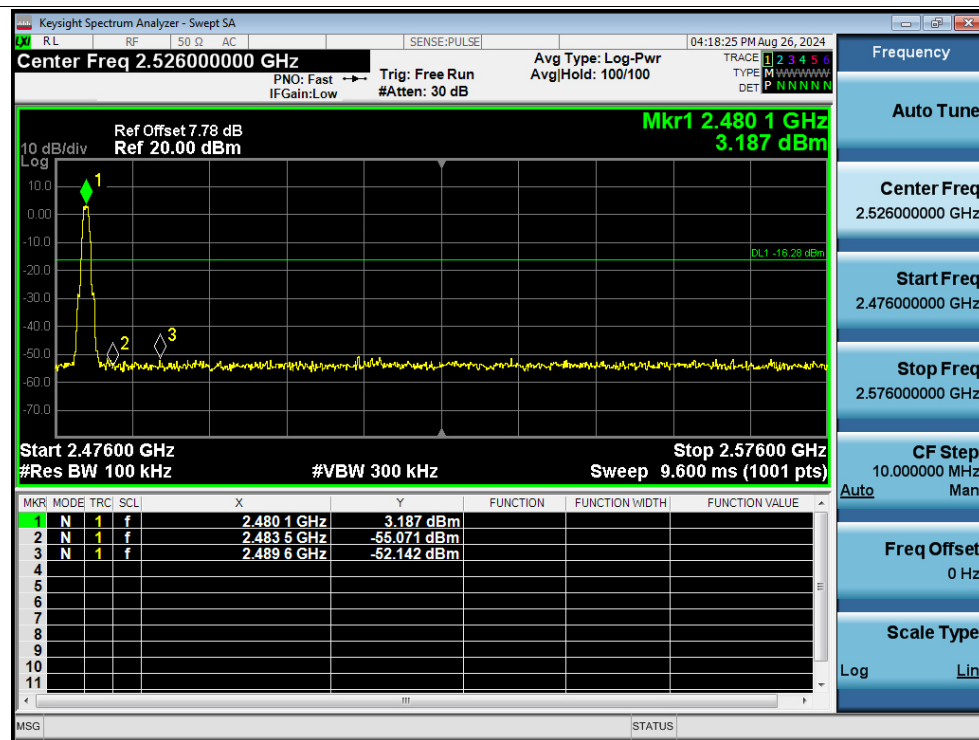
Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



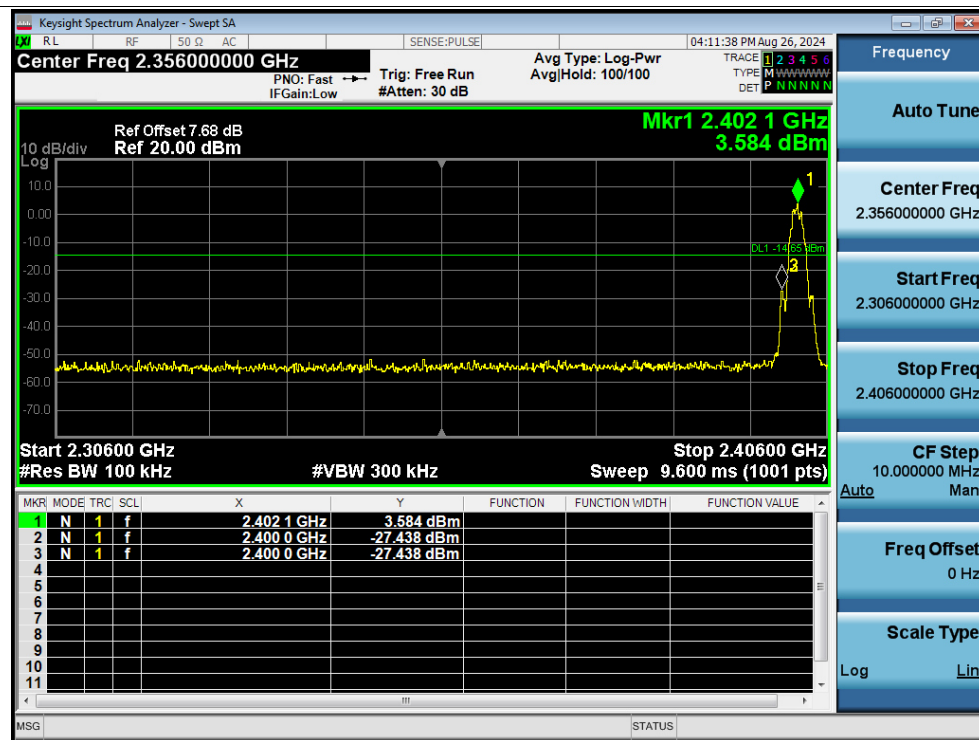
Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



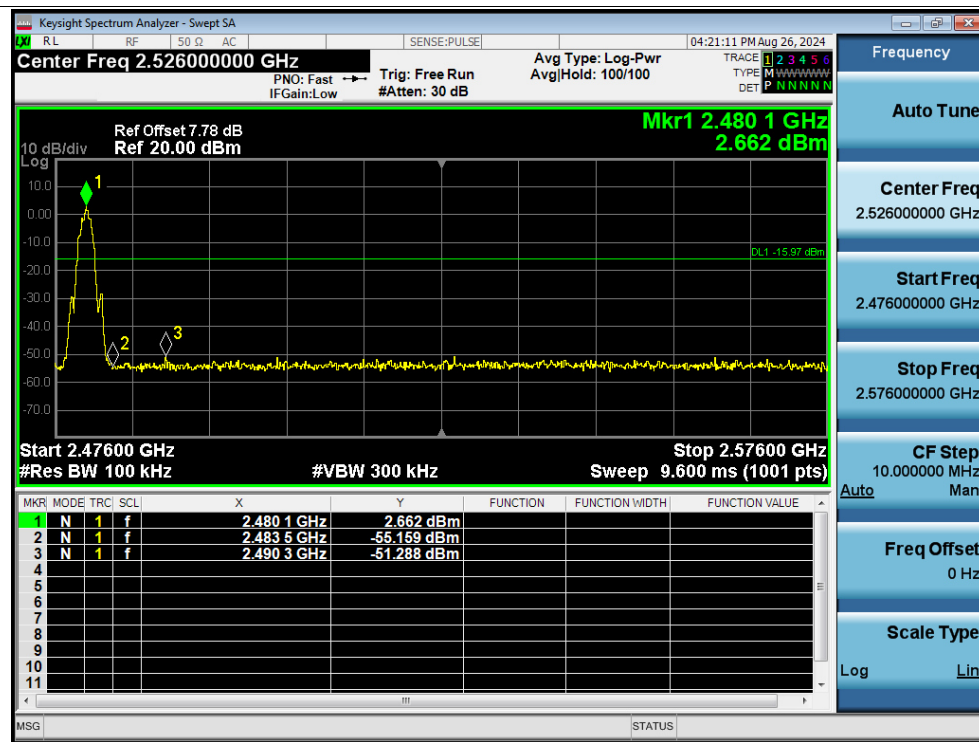
Band Edge NVNT BLE 2M 2402MHz Ant1 Emission



Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



Band Edge NVNT BLE 2M 2480MHz Ant1 Emission



Conducted RF Spurious Emission

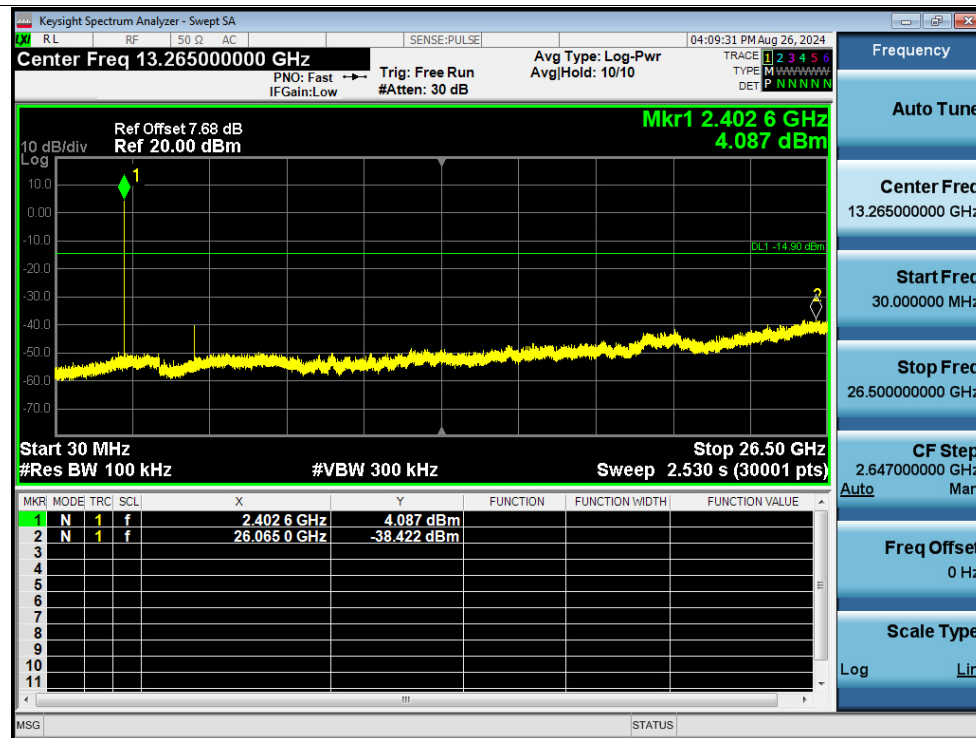
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-43.52	-20	Pass
NVNT	BLE 1M	2440	Ant1	-42.03	-20	Pass
NVNT	BLE 1M	2480	Ant1	-41.69	-20	Pass
NVNT	BLE 2M	2402	Ant1	-43.68	-20	Pass
NVNT	BLE 2M	2440	Ant1	-42.04	-20	Pass
NVNT	BLE 2M	2480	Ant1	-41.3	-20	Pass

Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



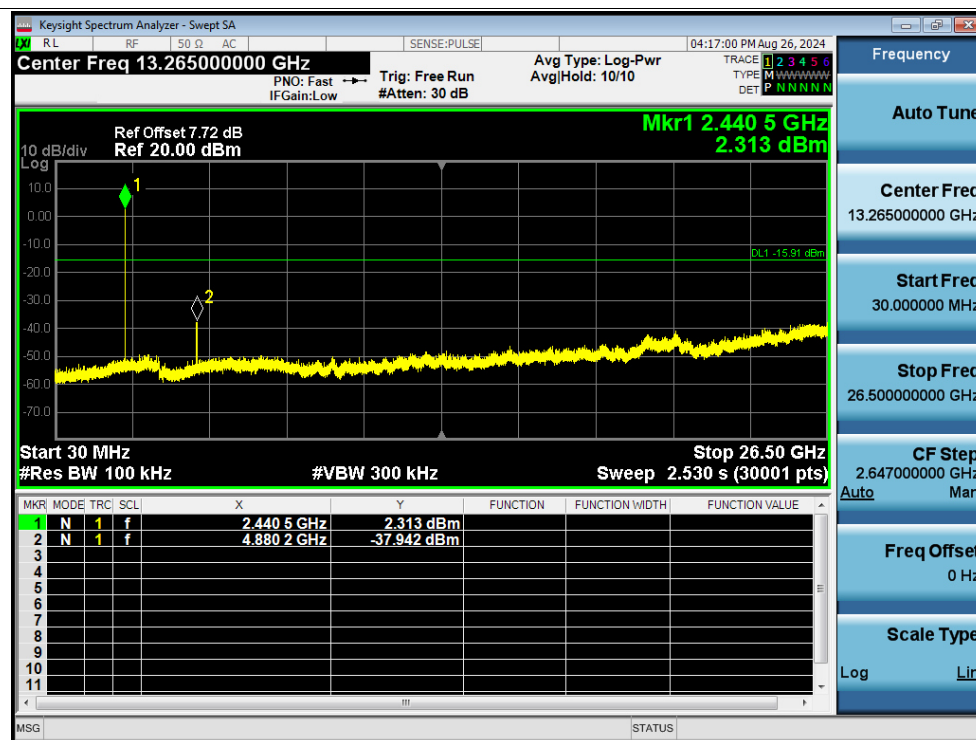
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



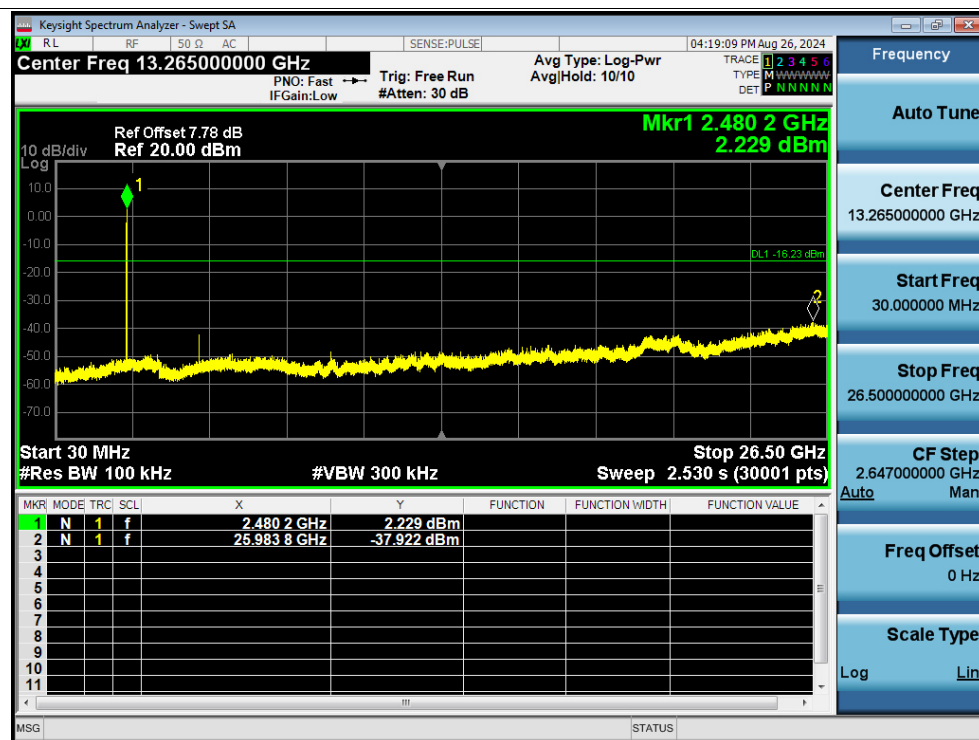
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



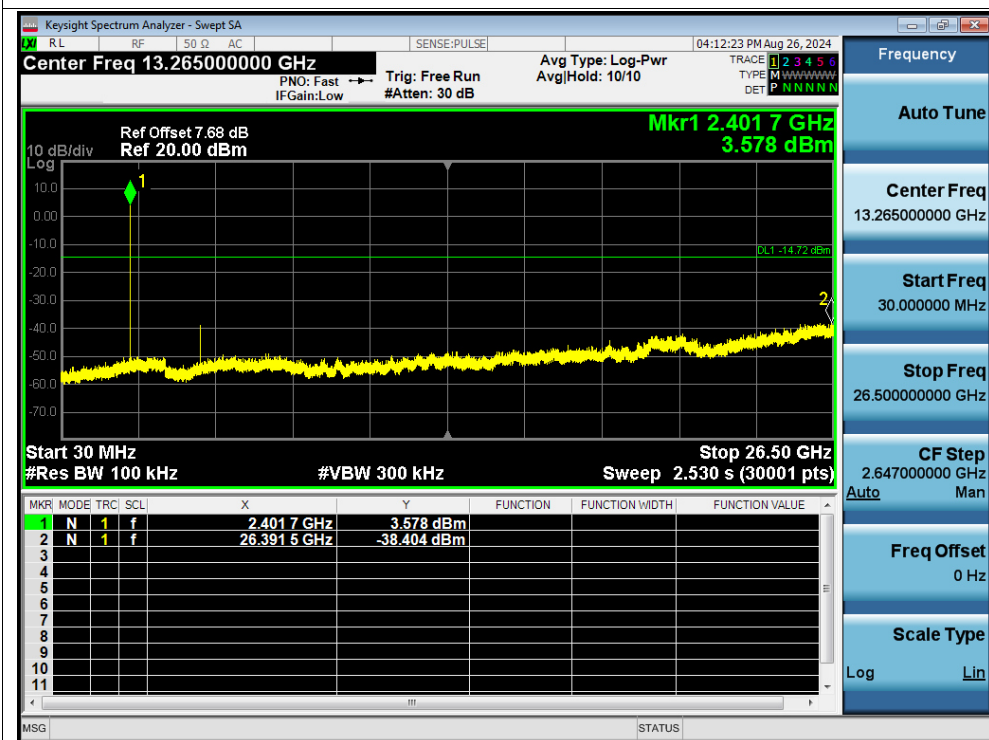
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



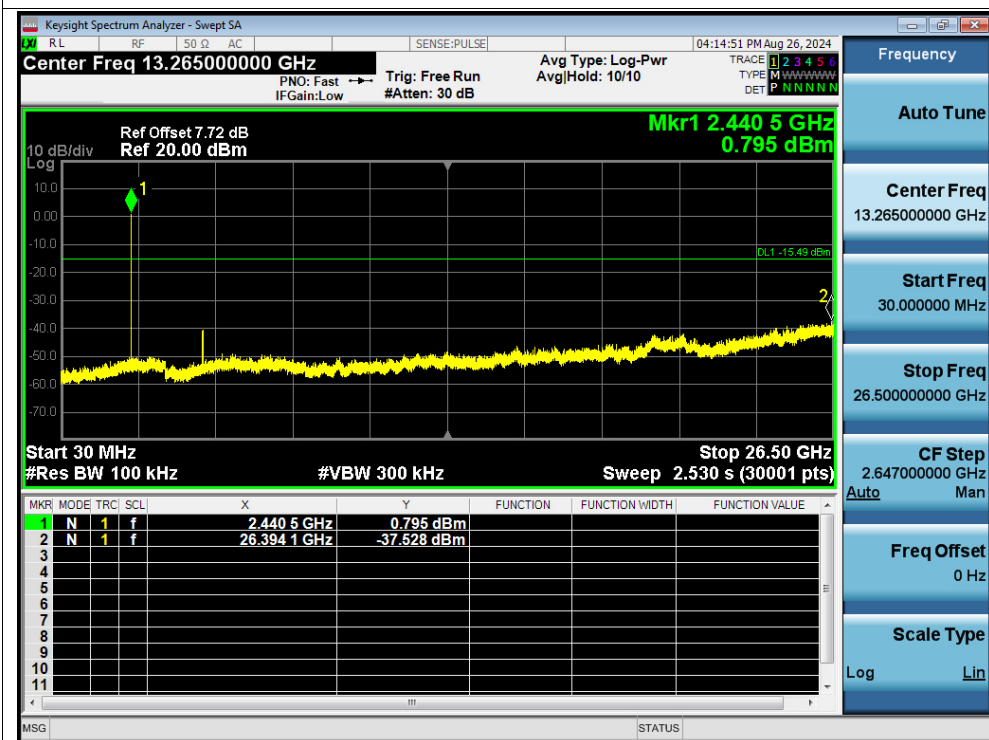
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission

