



Appendix A BLE

Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	4.93	4.93	30	Pass
NVNT	BLE 1M	2440	Ant1	3.46	3.46	30	Pass
NVNT	BLE 1M	2480	Ant1	3.41	3.41	30	Pass
NVNT	BLE 2M	2402	Ant1	4.88	4.88	30	Pass
NVNT	BLE 2M	2440	Ant1	3.56	3.56	30	Pass
NVNT	BLE 2M	2480	Ant1	3.34	3.34	30	Pass

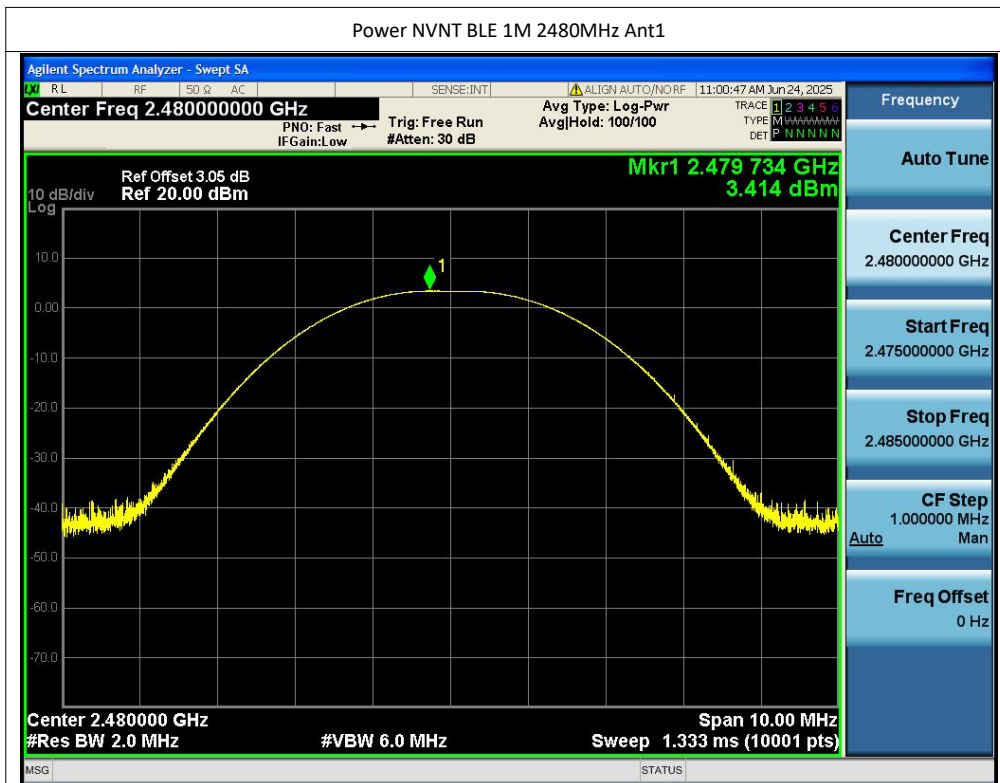
Test Graphs

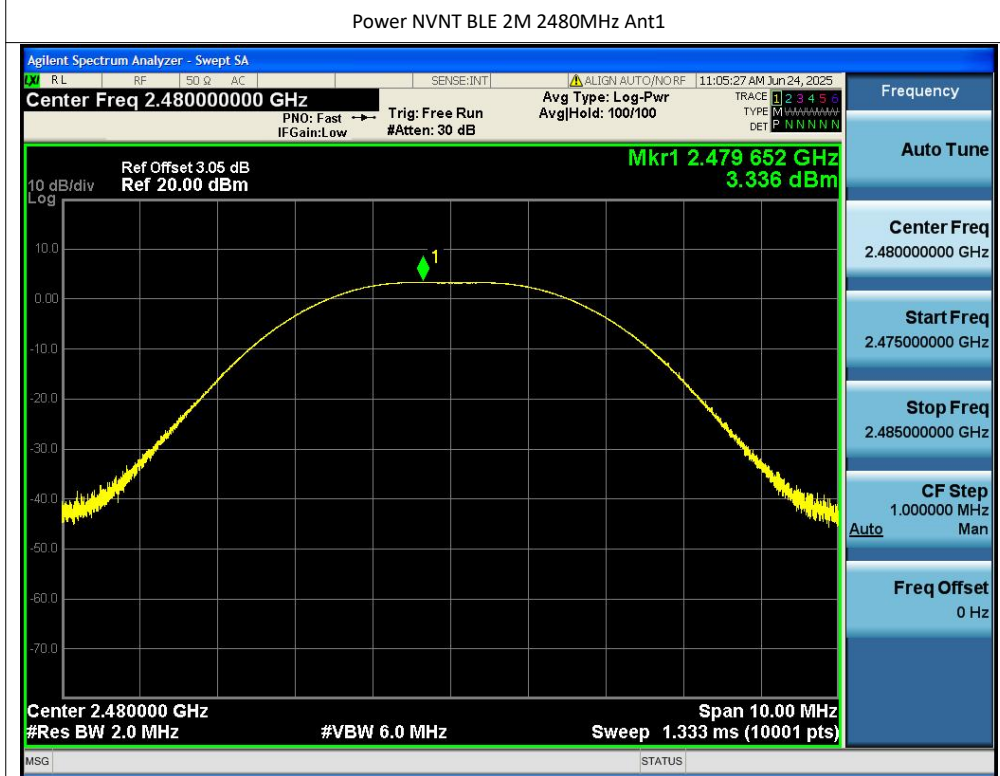
Power NVNT BLE 1M 2402MHz Ant1



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	0.664	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.644	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.653	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.117	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.121	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.11	0.5	Pass

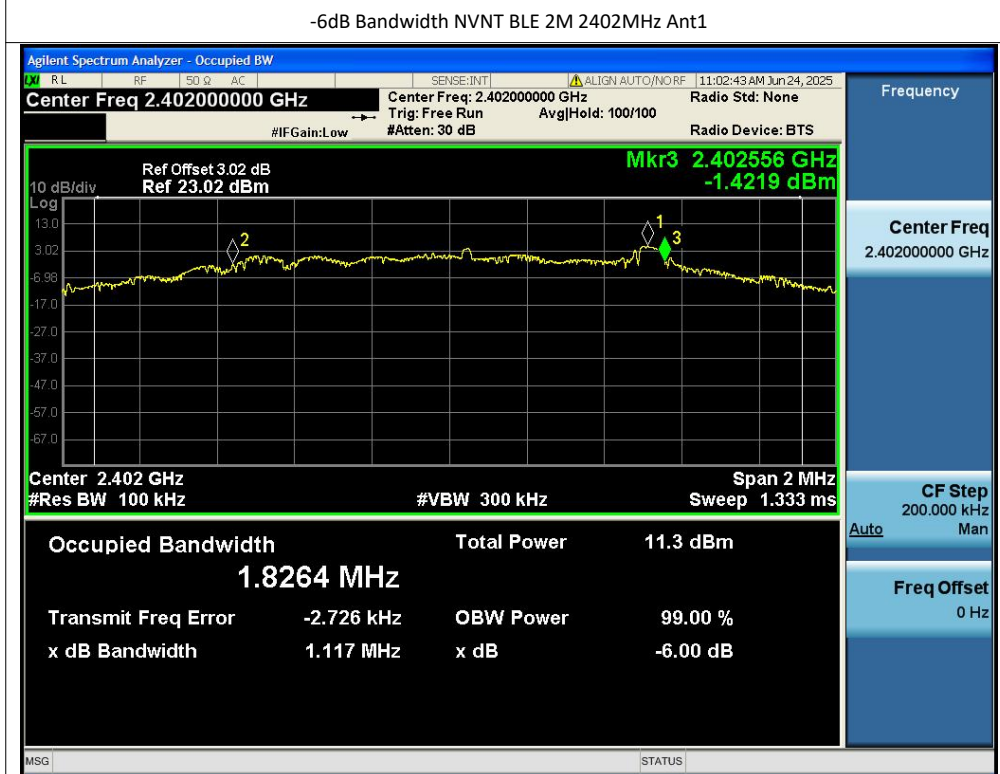
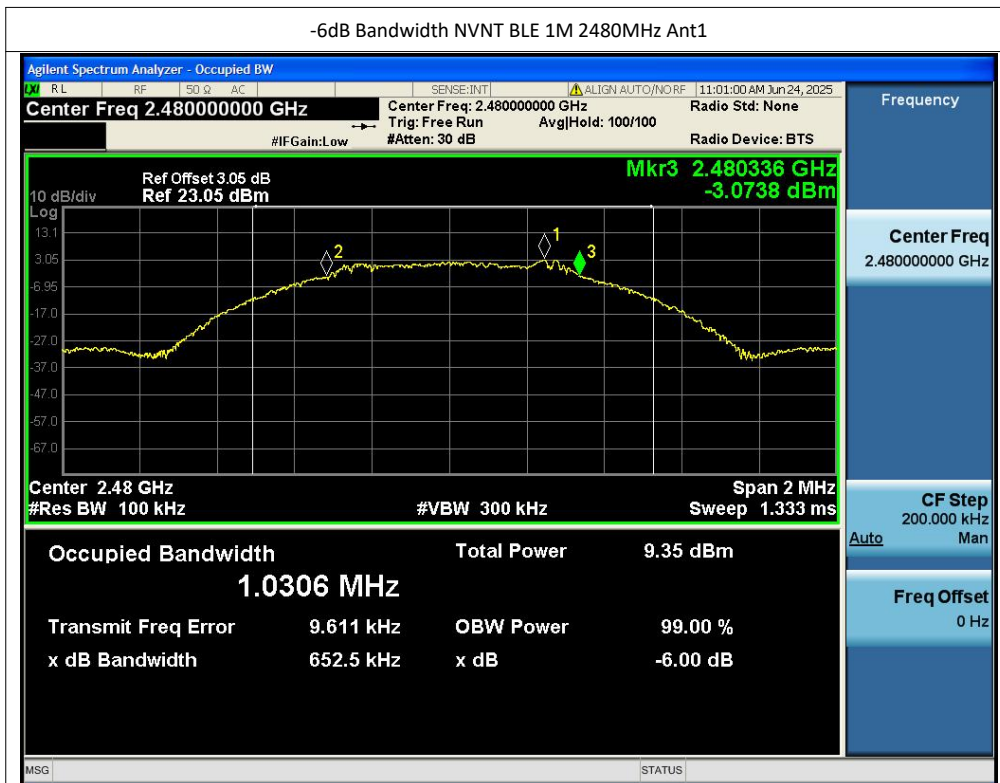
Test Graphs

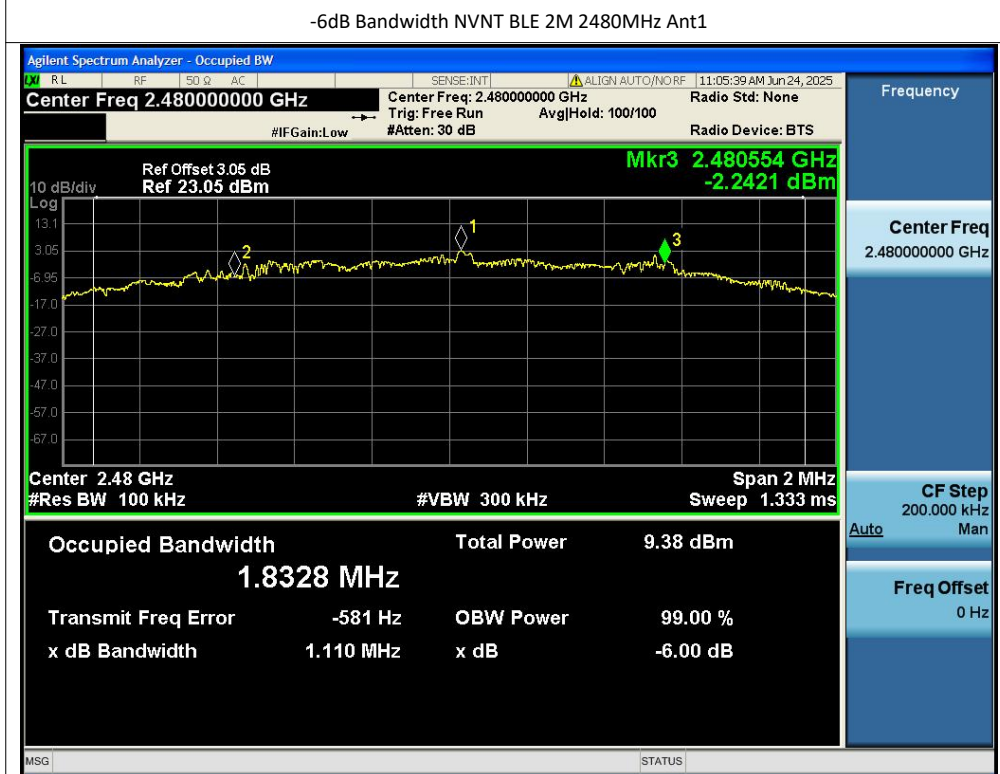
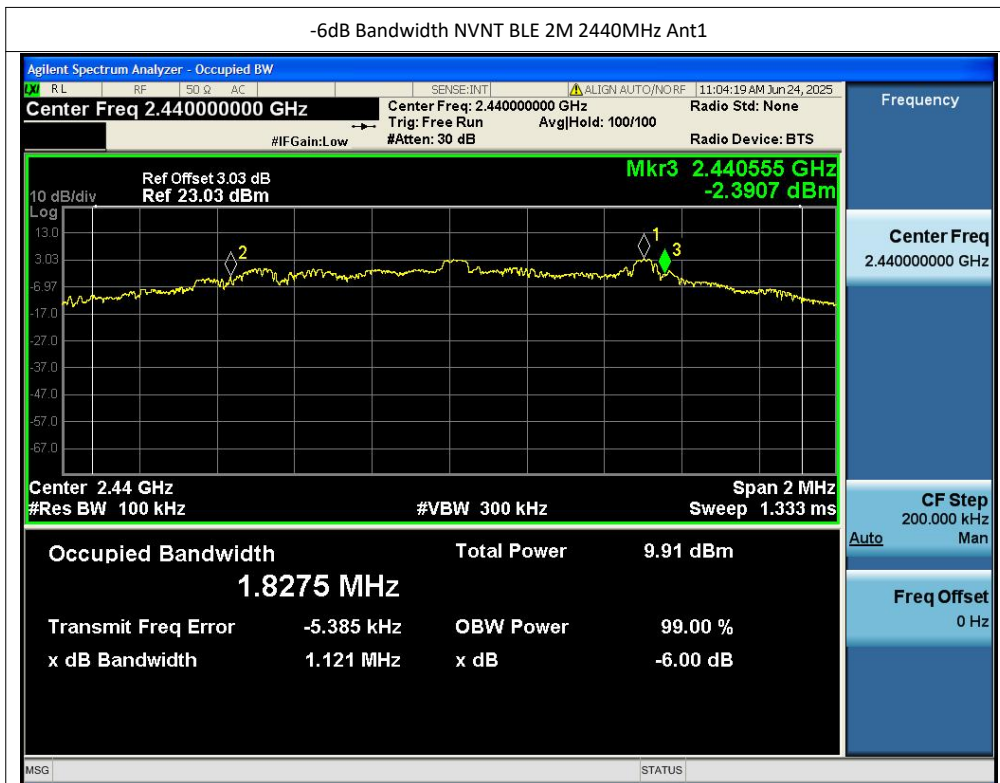
-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1









Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.023
NVNT	BLE 1M	2440	Ant1	1.024
NVNT	BLE 1M	2480	Ant1	1.021
NVNT	BLE 2M	2402	Ant1	2.019
NVNT	BLE 2M	2440	Ant1	2.012
NVNT	BLE 2M	2480	Ant1	2.02

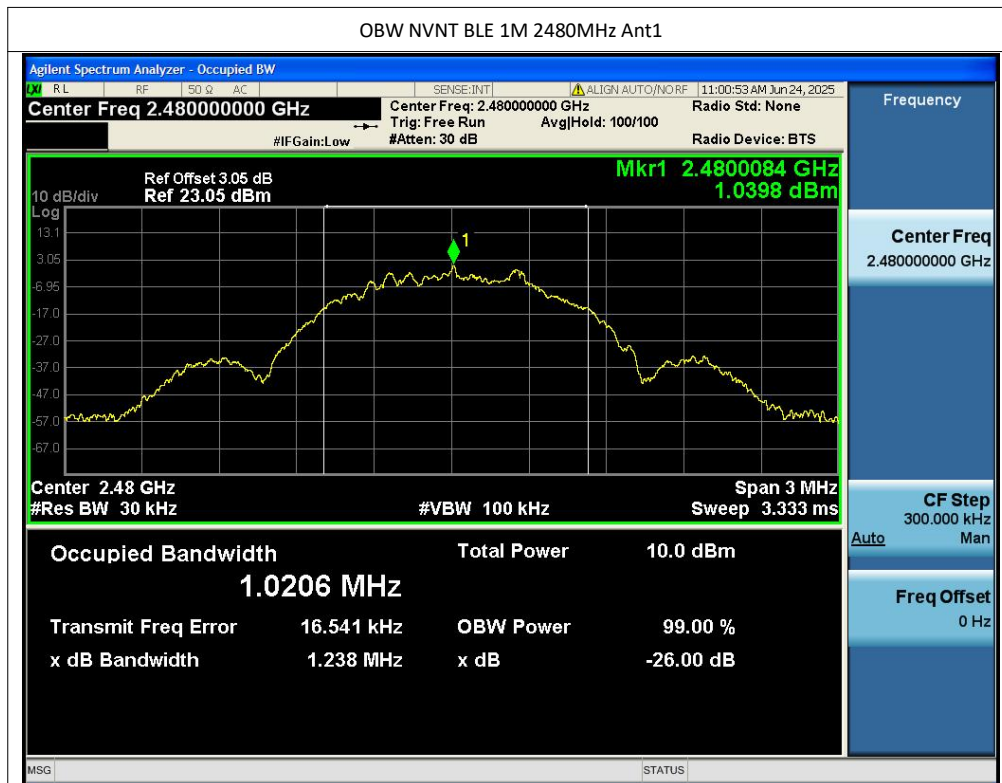
Test Graphs

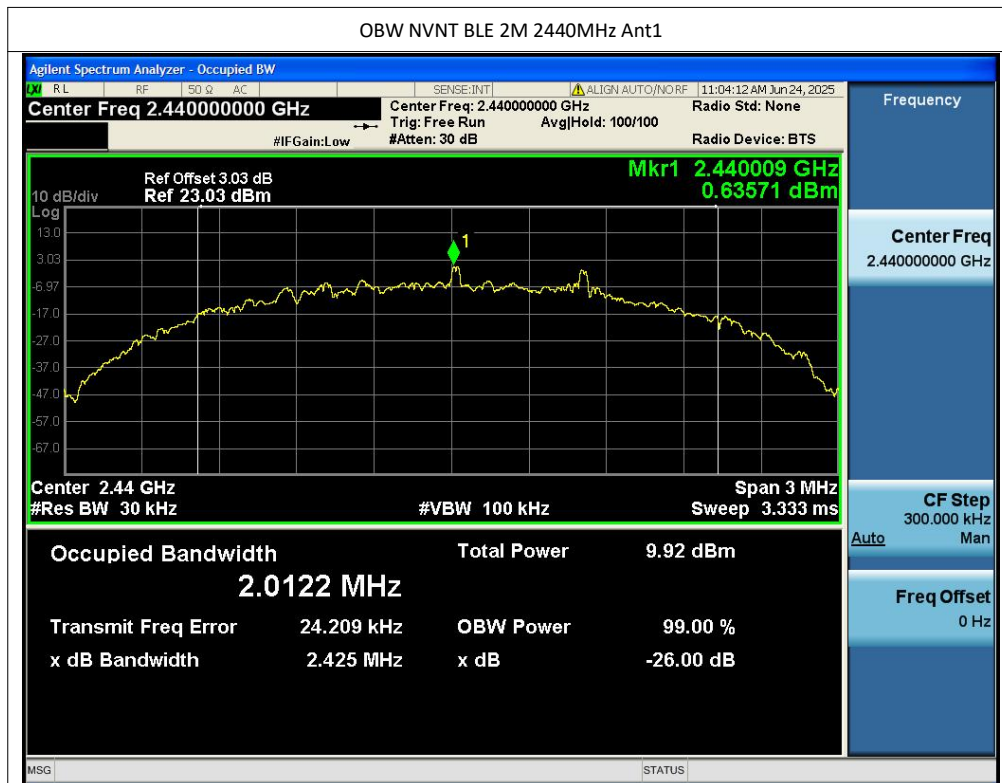
OBW NVNT BLE 1M 2402MHz Ant1



OBW NVNT BLE 1M 2440MHz Ant1









Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	4.74	0	4.74	8	Pass
NVNT	BLE 1M	2440	Ant1	3.17	0	3.17	8	Pass
NVNT	BLE 1M	2480	Ant1	3.13	0	3.13	8	Pass
NVNT	BLE 2M	2402	Ant1	3.79	0	3.79	8	Pass
NVNT	BLE 2M	2440	Ant1	3.01	0	3.01	8	Pass
NVNT	BLE 2M	2480	Ant1	3.12	0	3.12	8	Pass

Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1









Band Edge

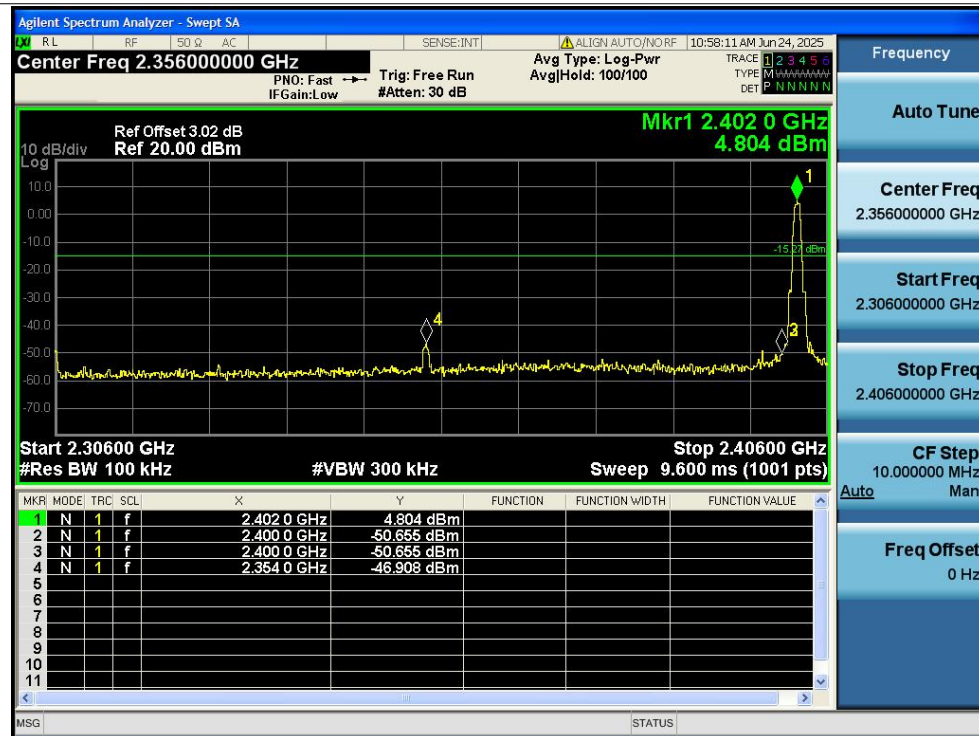
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-51.63	-20	Pass
NVNT	BLE 1M	2480	Ant1	-54.3	-20	Pass
NVNT	BLE 2M	2402	Ant1	-33.72	-20	Pass
NVNT	BLE 2M	2480	Ant1	-54.14	-20	Pass

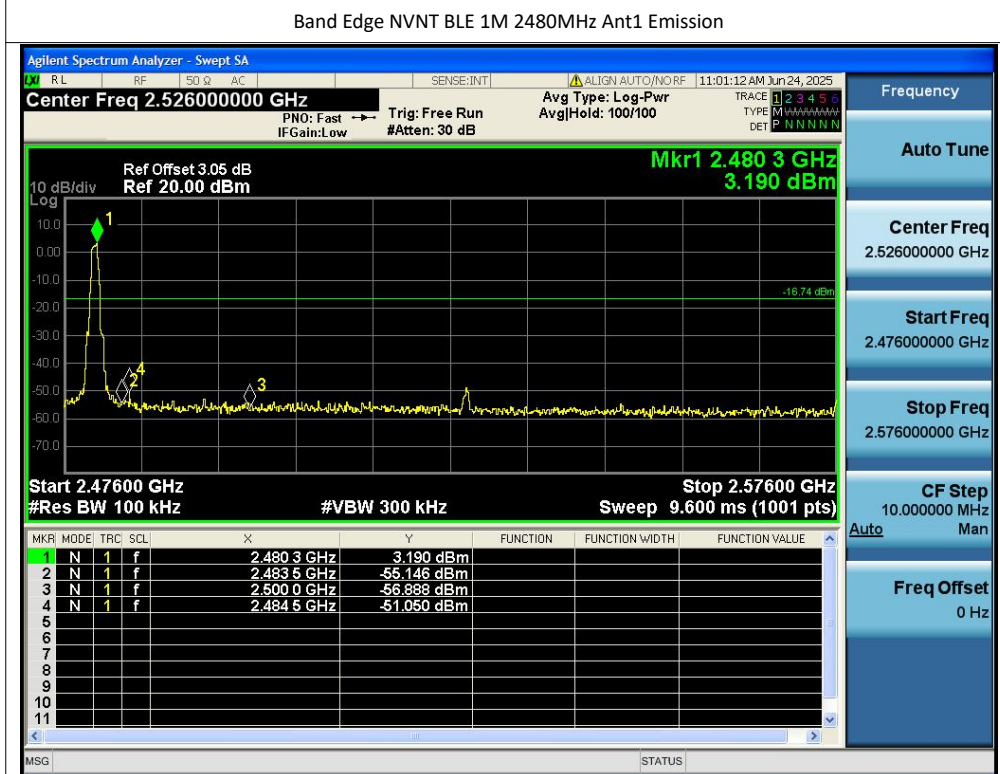
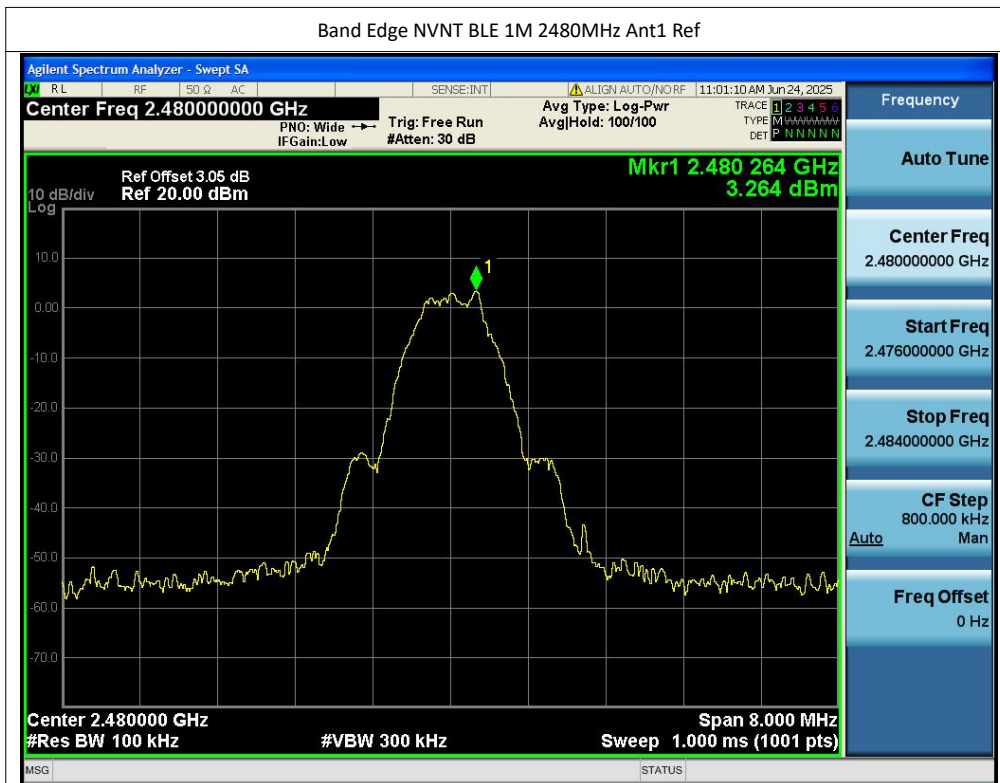
Test Graphs

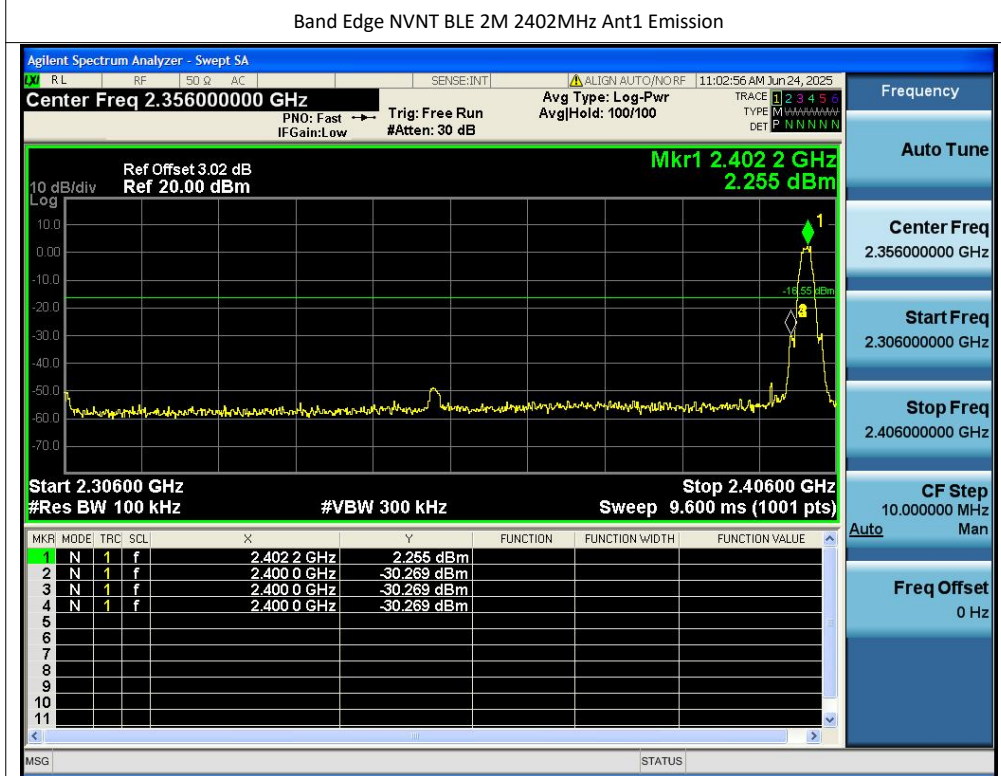
Band Edge NVNT BLE 1M 2402MHz Ant1 Ref

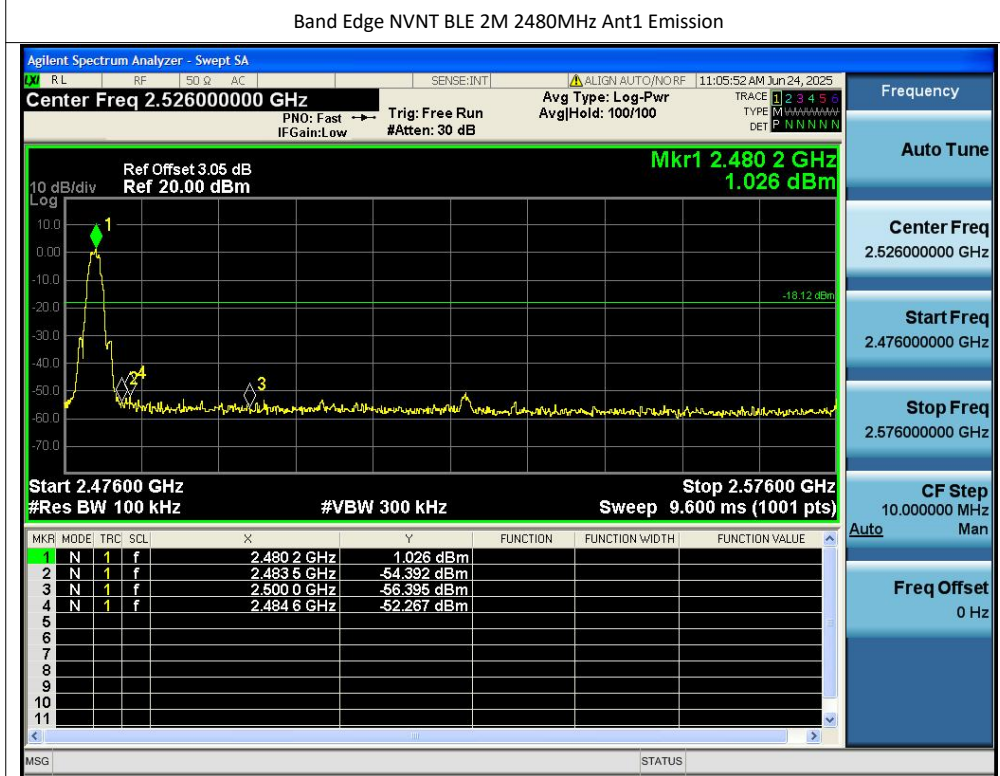


Band Edge NVNT BLE 1M 2402MHz Ant1 Emission











Conducted RF Spurious Emission

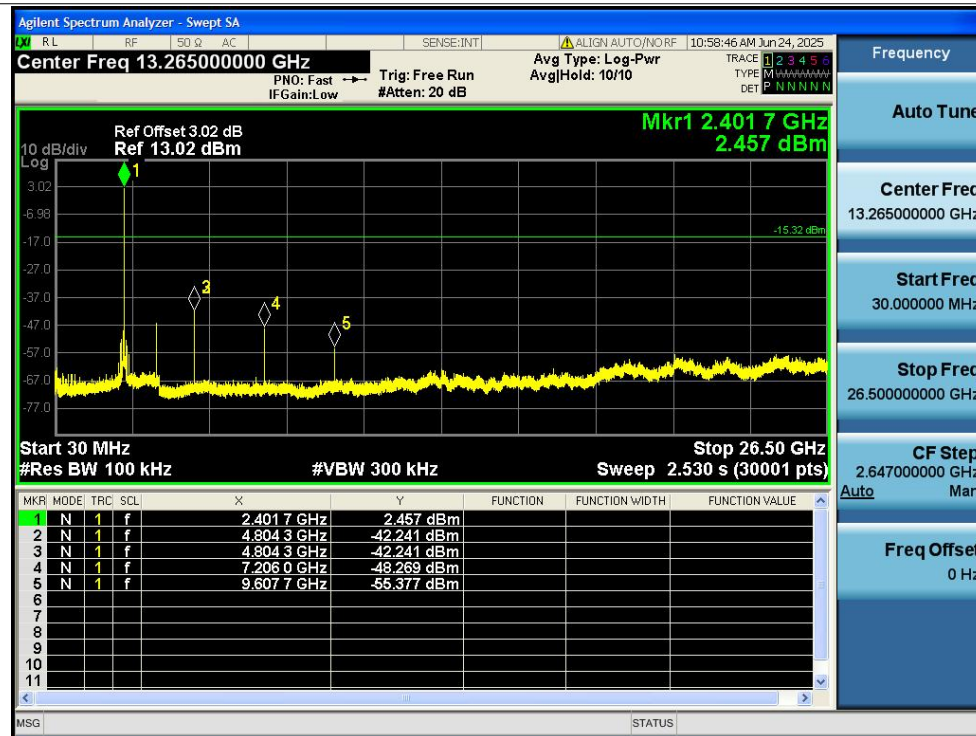
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-46.92	-20	Pass
NVNT	BLE 1M	2440	Ant1	-46.52	-20	Pass
NVNT	BLE 1M	2480	Ant1	-43.37	-20	Pass
NVNT	BLE 2M	2402	Ant1	-48.78	-20	Pass
NVNT	BLE 2M	2440	Ant1	-46.49	-20	Pass
NVNT	BLE 2M	2480	Ant1	-44.61	-20	Pass

Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



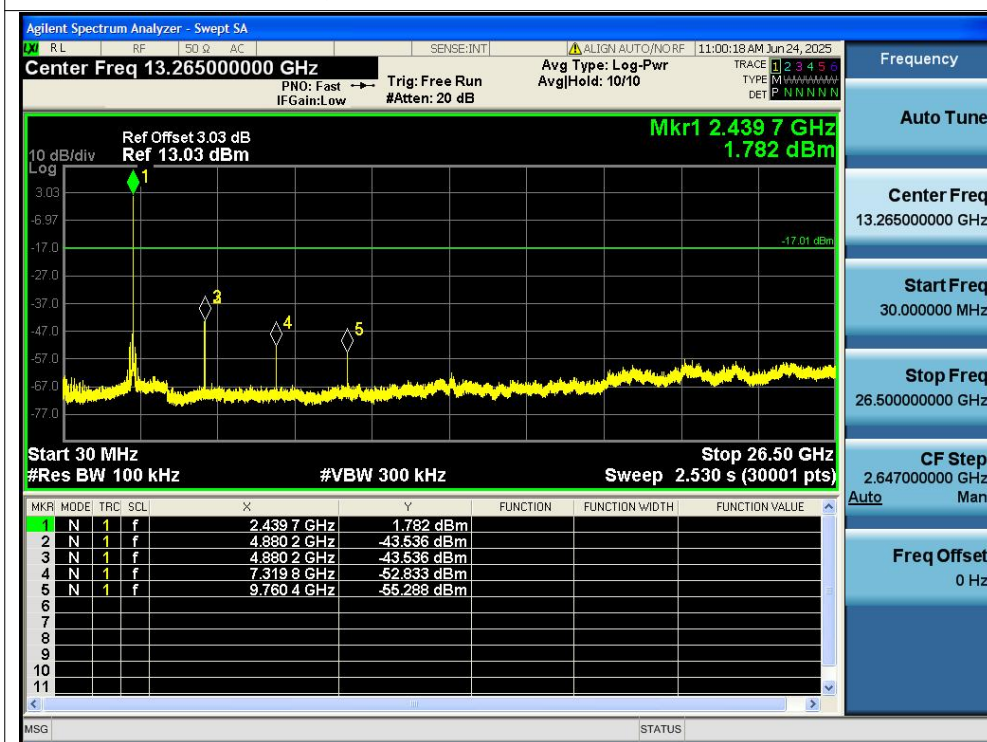
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



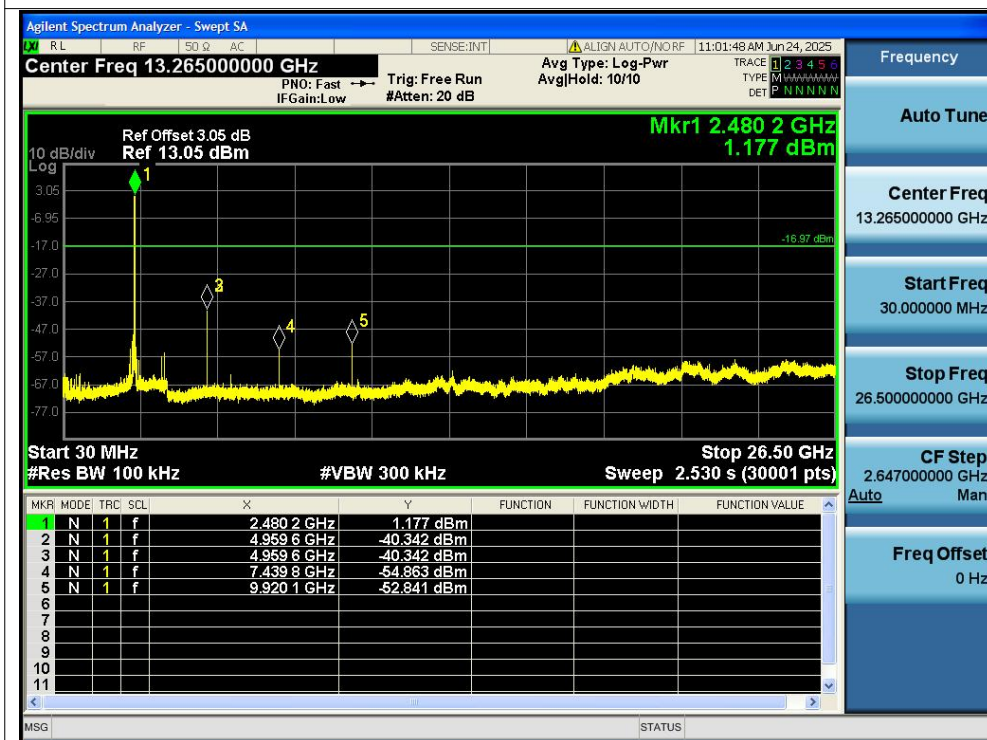
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



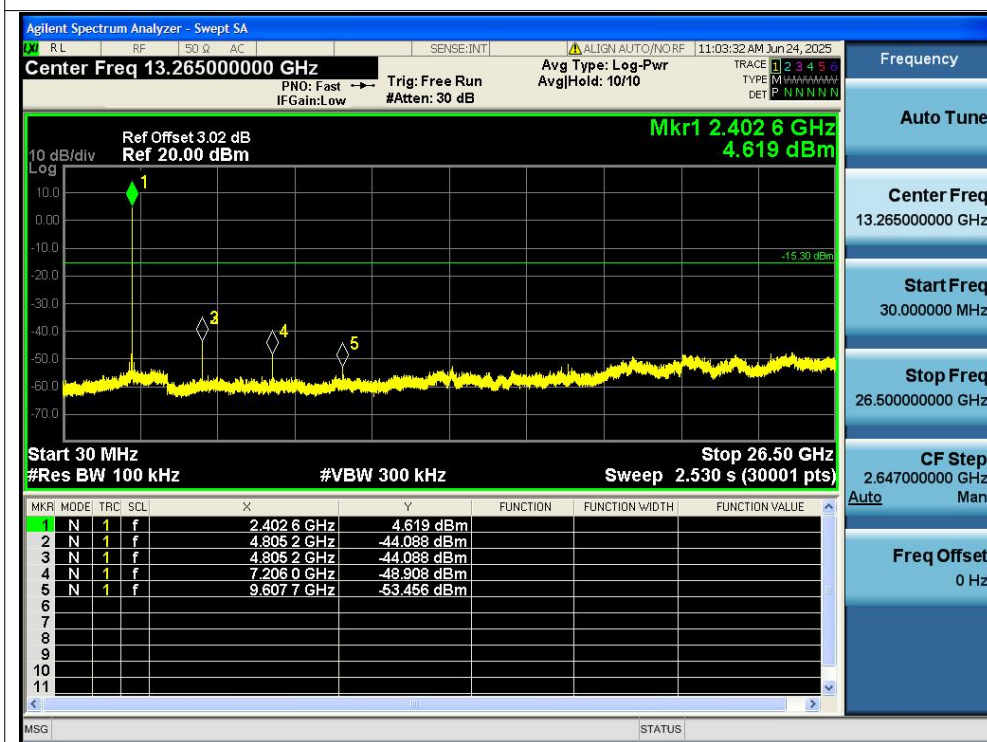
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



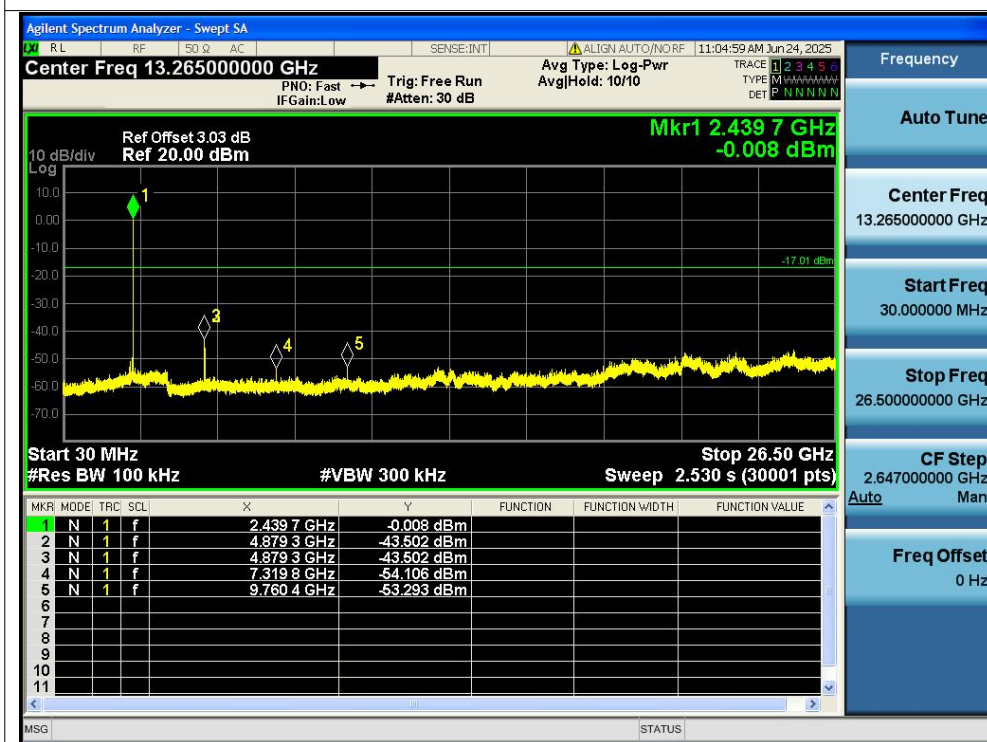
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



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

