

GTSL2025020052F05

Appendix

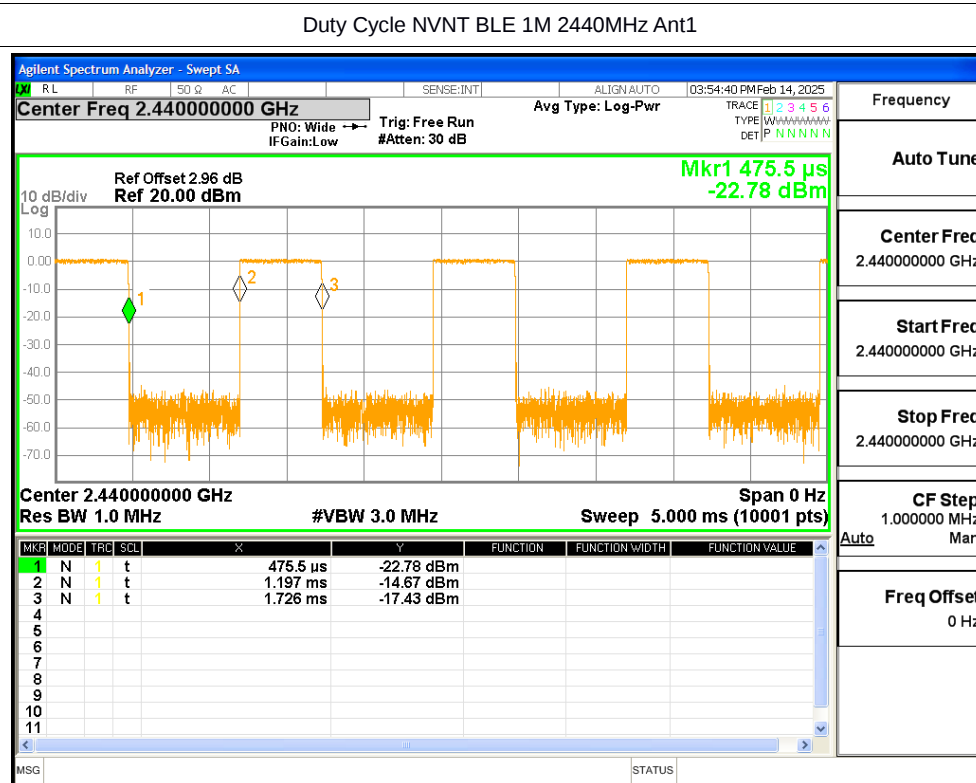
Duty Cycle.....	2
Maximum Conducted Output Power	6
-6dB Bandwidth	10
Occupied Channel Bandwidth	14
Maximum Power Spectral Density Level.....	18
Band Edge	22
Conducted RF Spurious Emission	27

GTSL2025020052F05

Duty Cycle

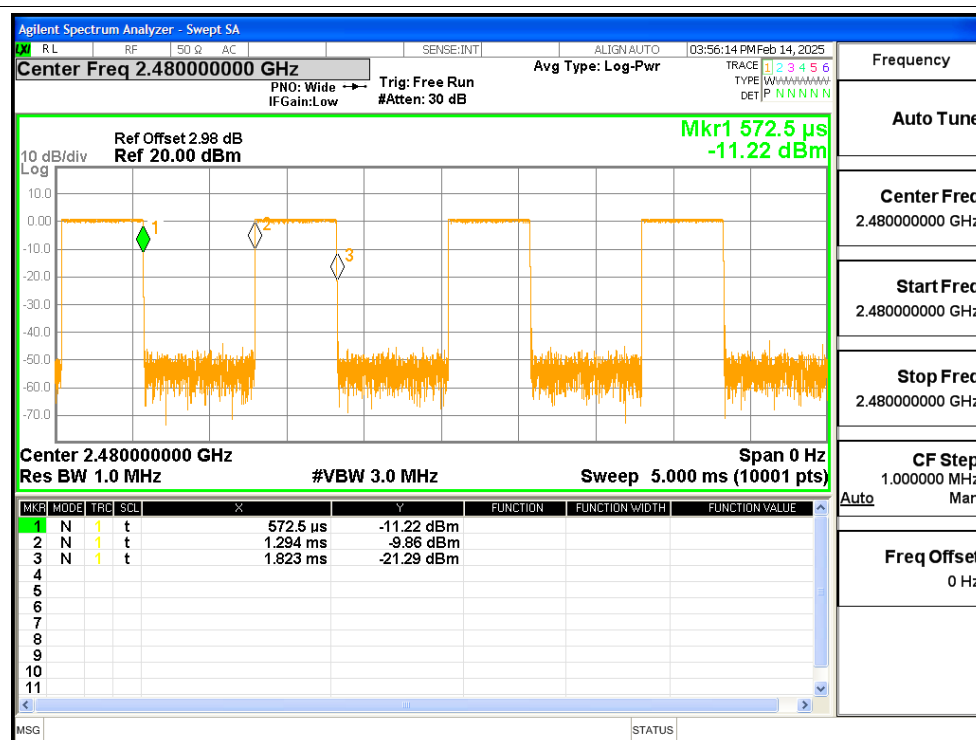
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	42.3	3.74	1.89
		2440		42.32	3.73	1.89
		2480		42.3	3.74	1.89
	BLE 2M	2402		22.16	6.54	3.61
		2440		22.15	6.55	3.61
		2480		22.15	6.55	3.61

Duty Cycle NVNT BLE 1M 2402MHz Ant1

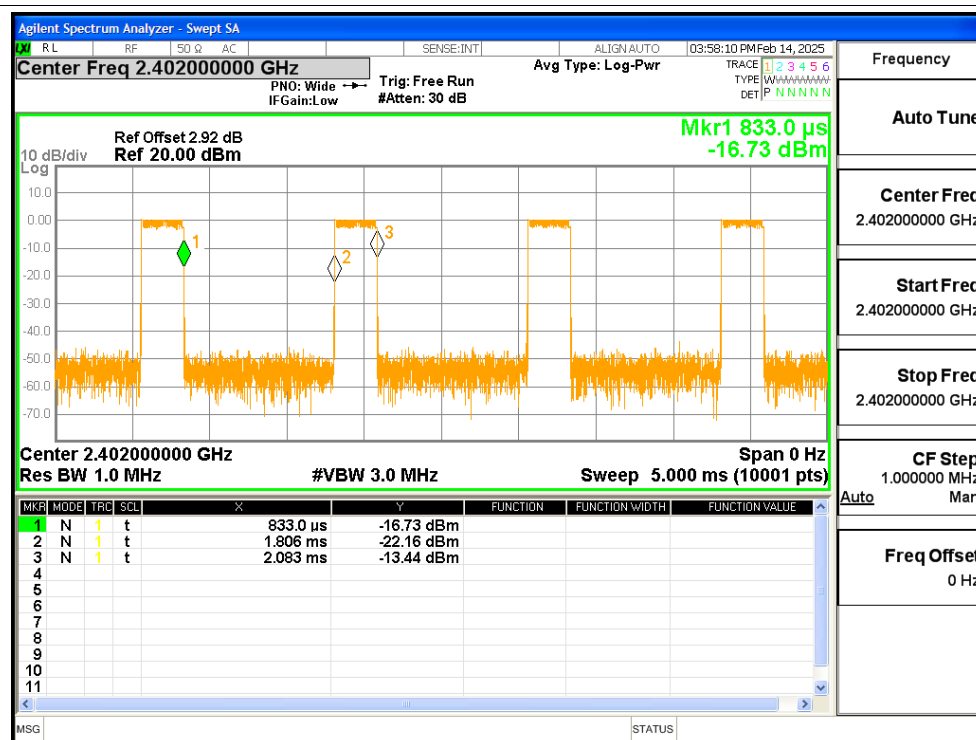


GTSL2025020052F05

Duty Cycle NVNT BLE 1M 2480MHz Ant1

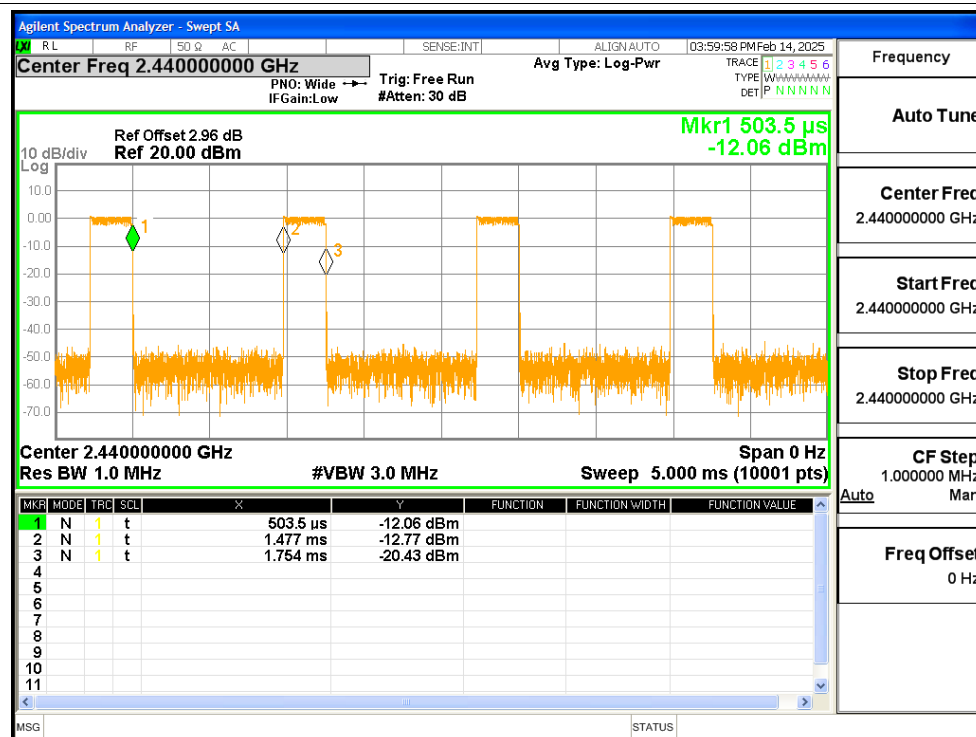


Duty Cycle NVNT BLE 2M 2402MHz Ant1

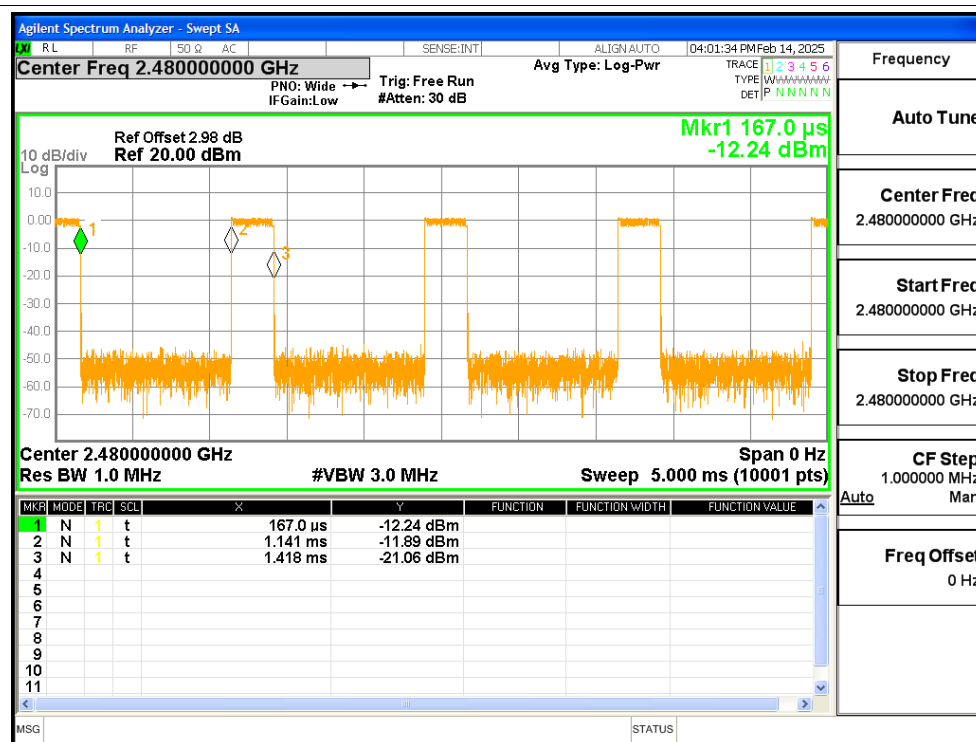


GTSL2025020052F05

Duty Cycle NVNT BLE 2M 2440MHz Ant1



Duty Cycle NVNT BLE 2M 2480MHz Ant1



GTSL2025020052F05

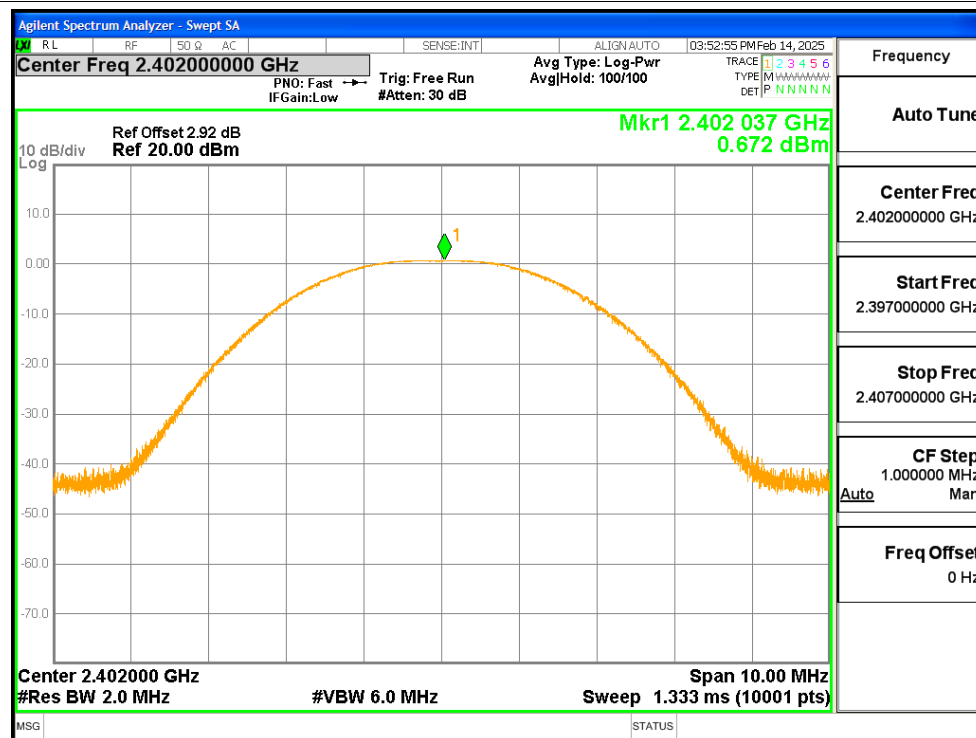
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	0.67	0	0.67	30	Pass
		2440		0.83	0	0.83	30	Pass
		2480		1.02	0	1.02	30	Pass
	BLE 2M	2402		0.65	0	0.65	30	Pass
		2440		0.8	0	0.8	30	Pass
		2480		1.09	0	1.09	30	Pass

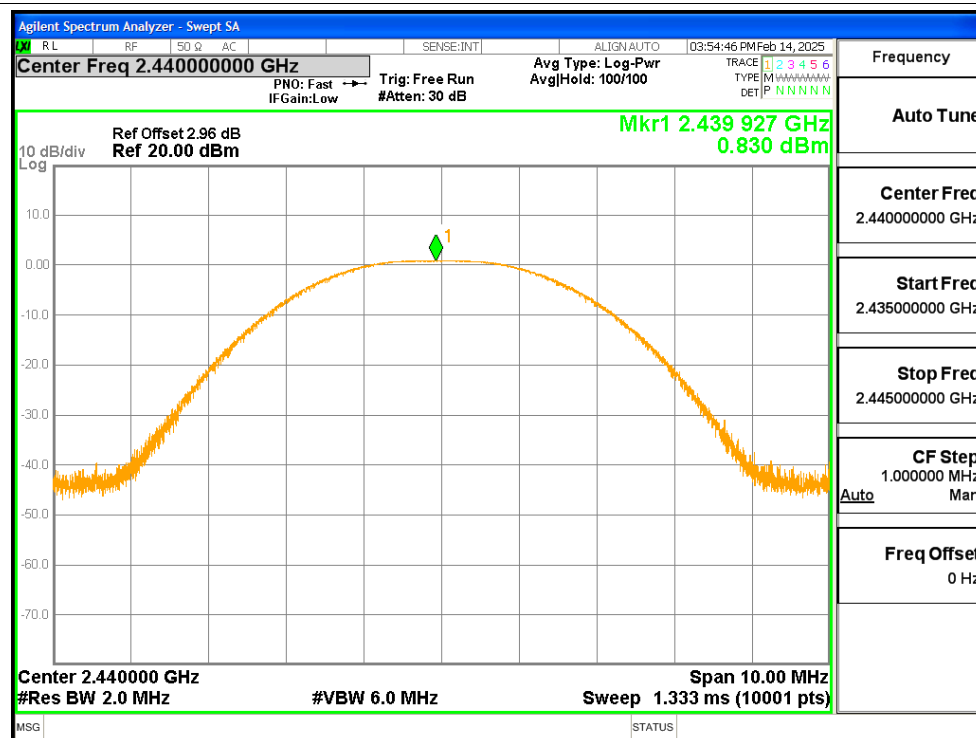
GTSL2025020052F05

Test Graphs

Power NVNT BLE 1M 2402MHz Ant1

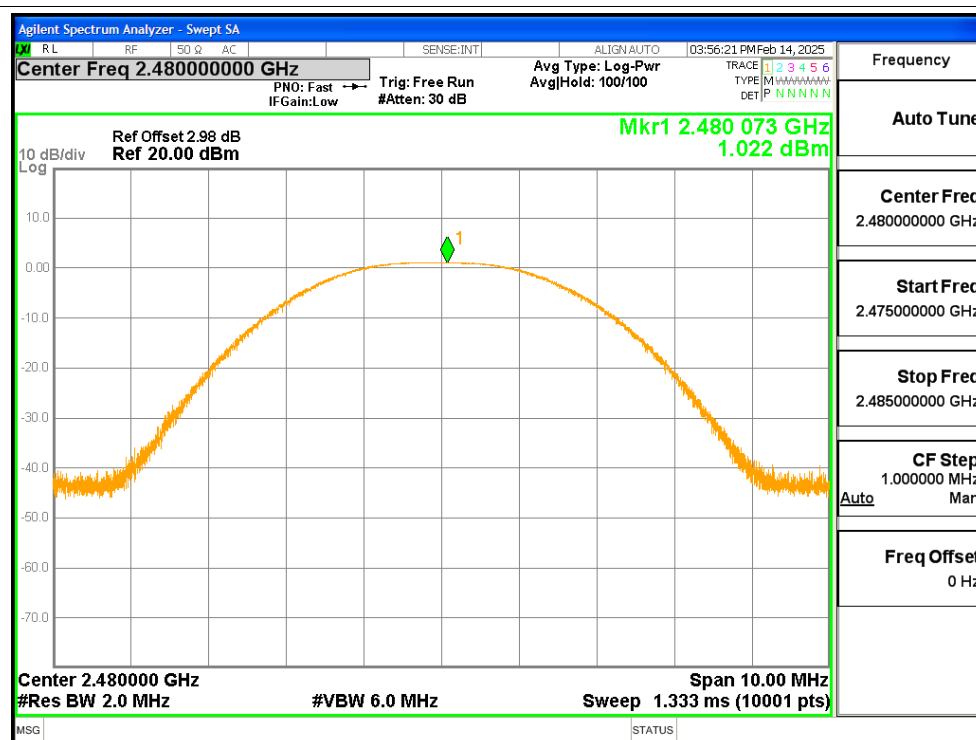


Power NVNT BLE 1M 2440MHz Ant1

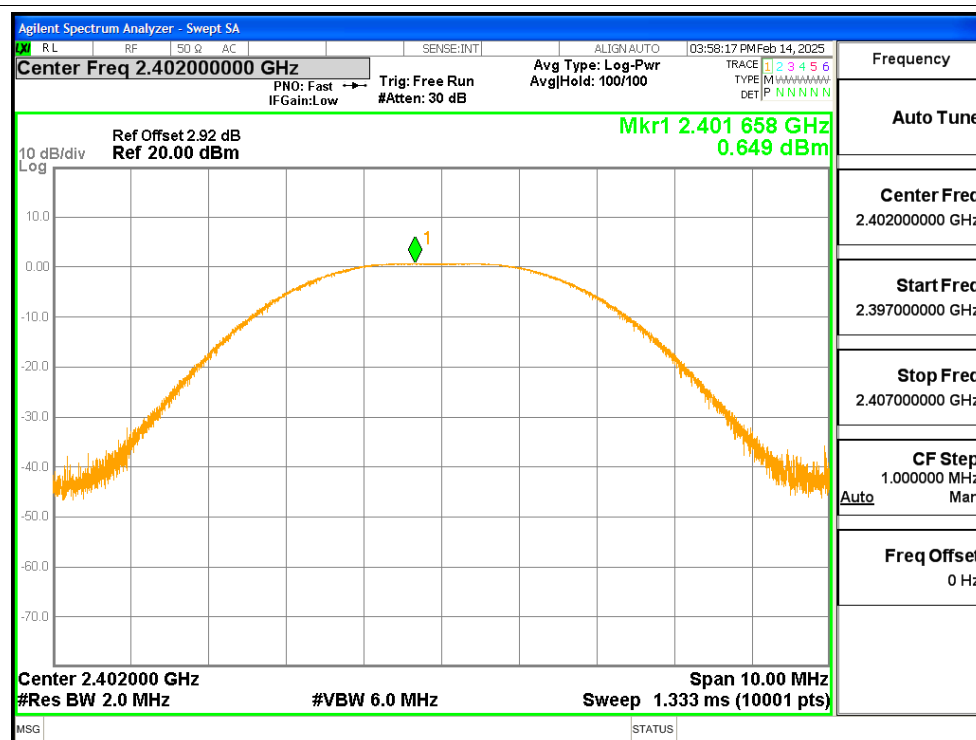


GTSL2025020052F05

Power NVNT BLE 1M 2480MHz Ant1

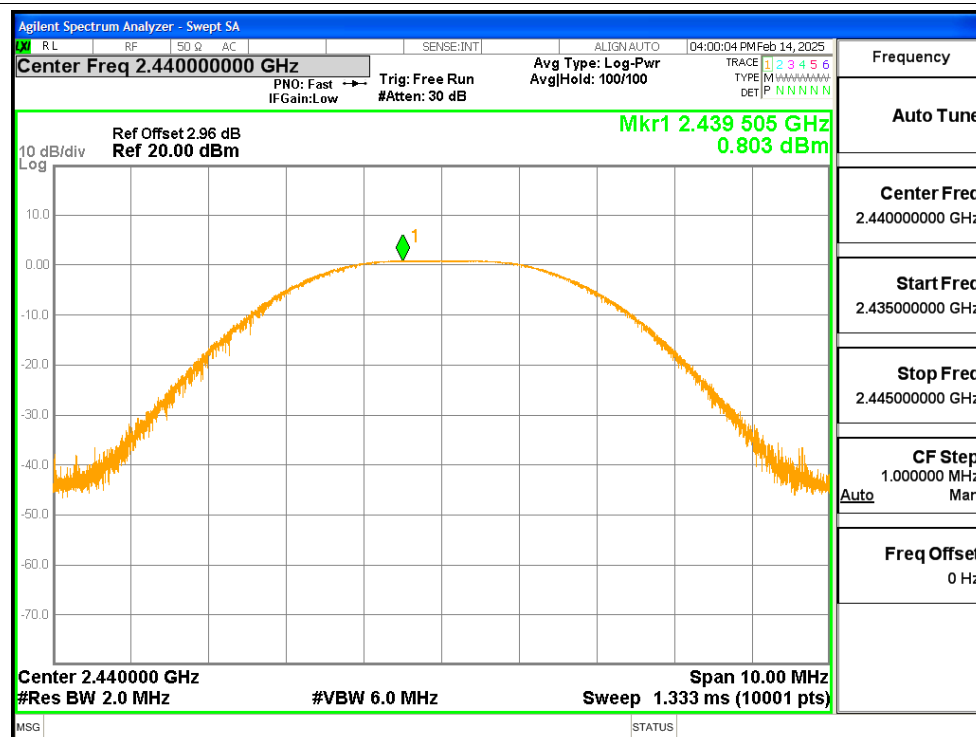


Power NVNT BLE 2M 2402MHz Ant1

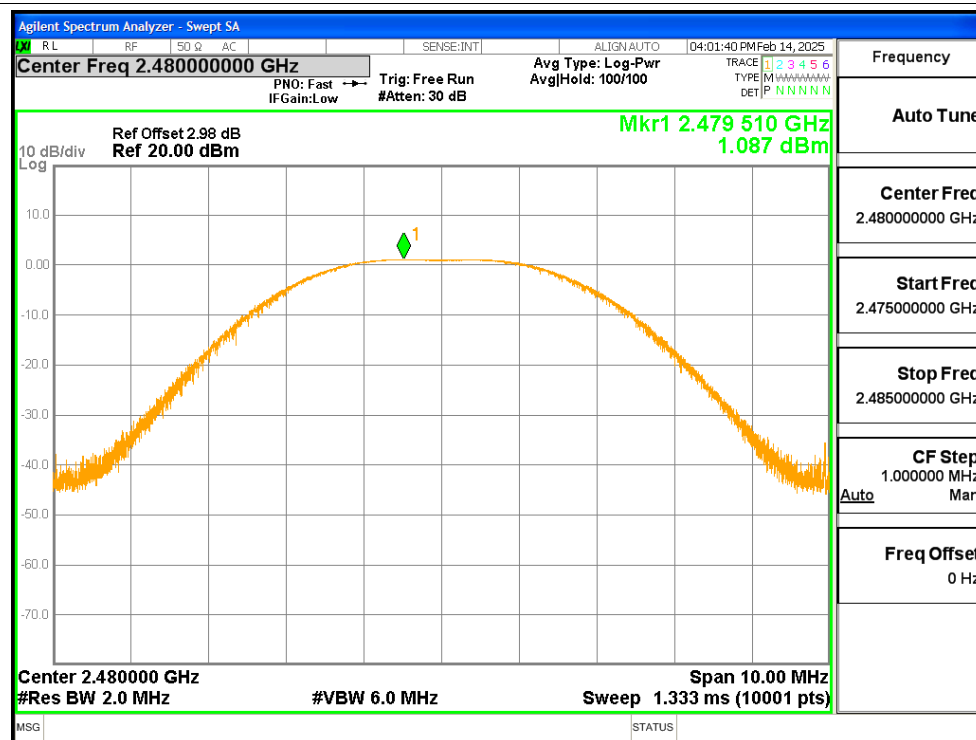


GTSL2025020052F05

Power NVNT BLE 2M 2440MHz Ant1



Power NVNT BLE 2M 2480MHz Ant1



GTSL2025020052F05

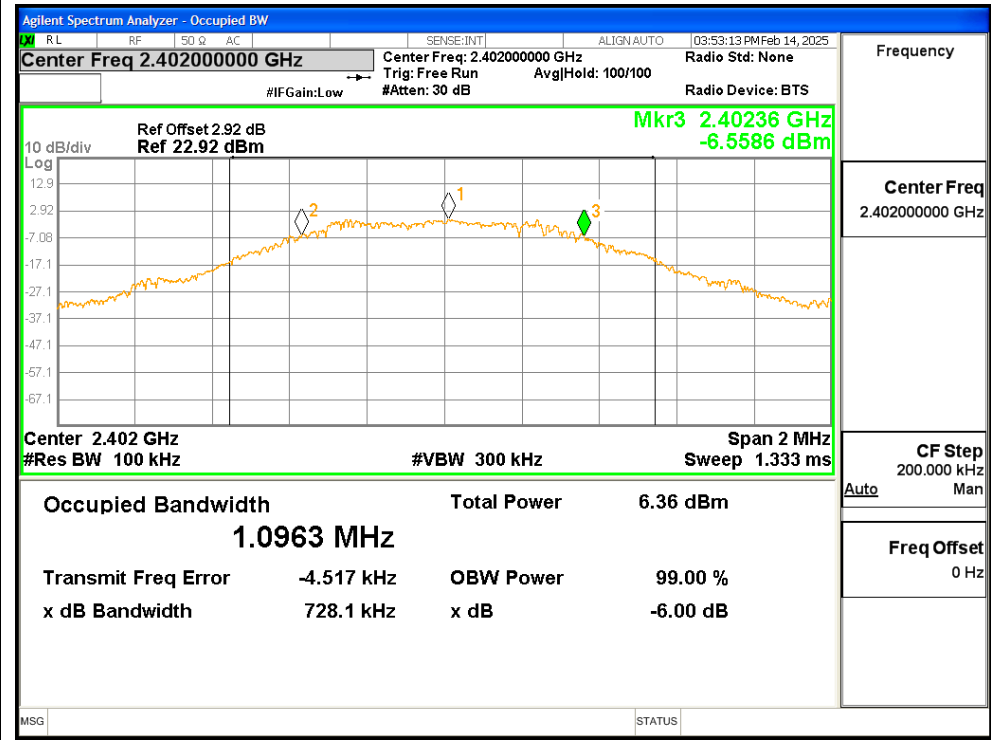
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.728	0.5	Pass
		2440		0.757	0.5	Pass
		2480		0.728	0.5	Pass
	BLE 2M	2402		1.151	0.5	Pass
		2440		1.112	0.5	Pass
		2480		1.142	0.5	Pass

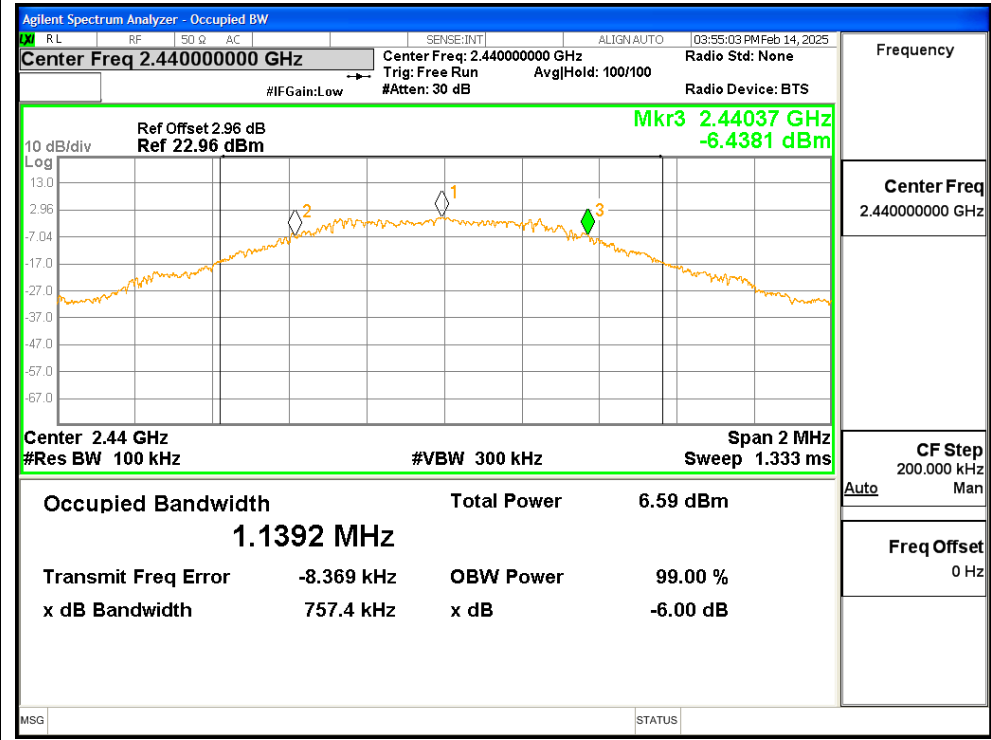
GTSL2025020052F05

Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1

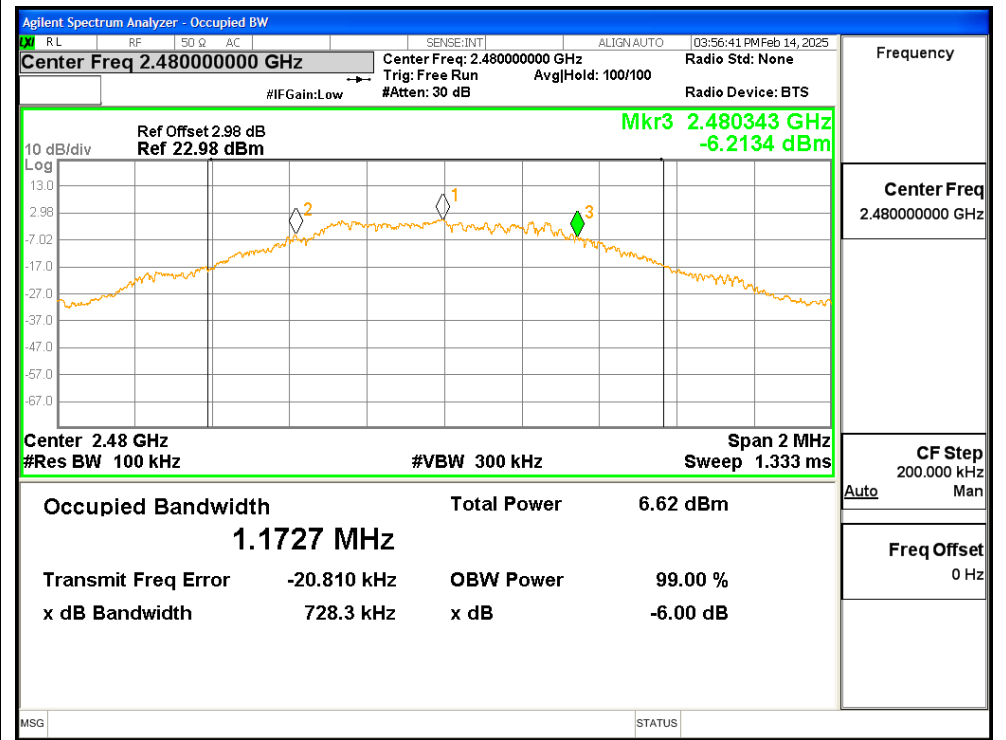


-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

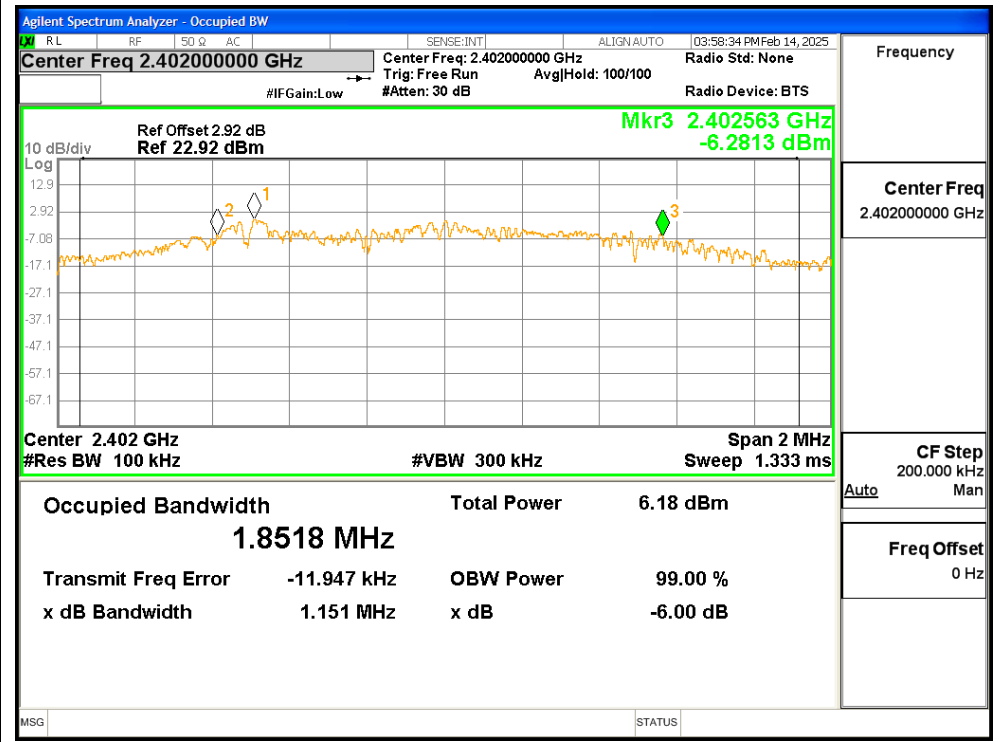


GTSL2025020052F05

-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1

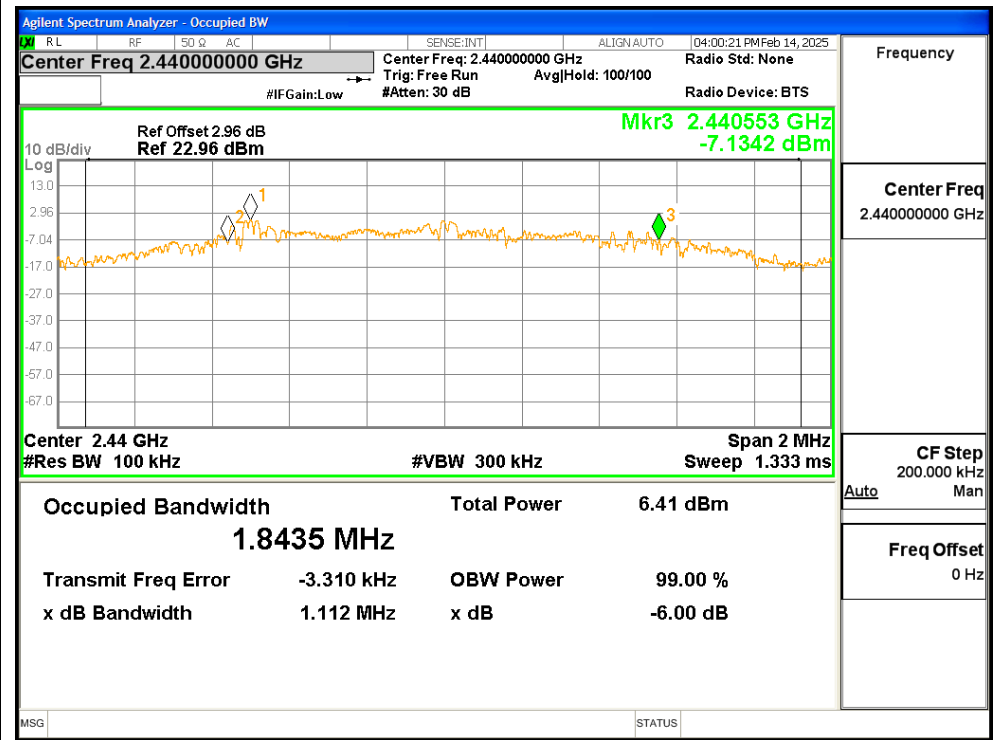


-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1

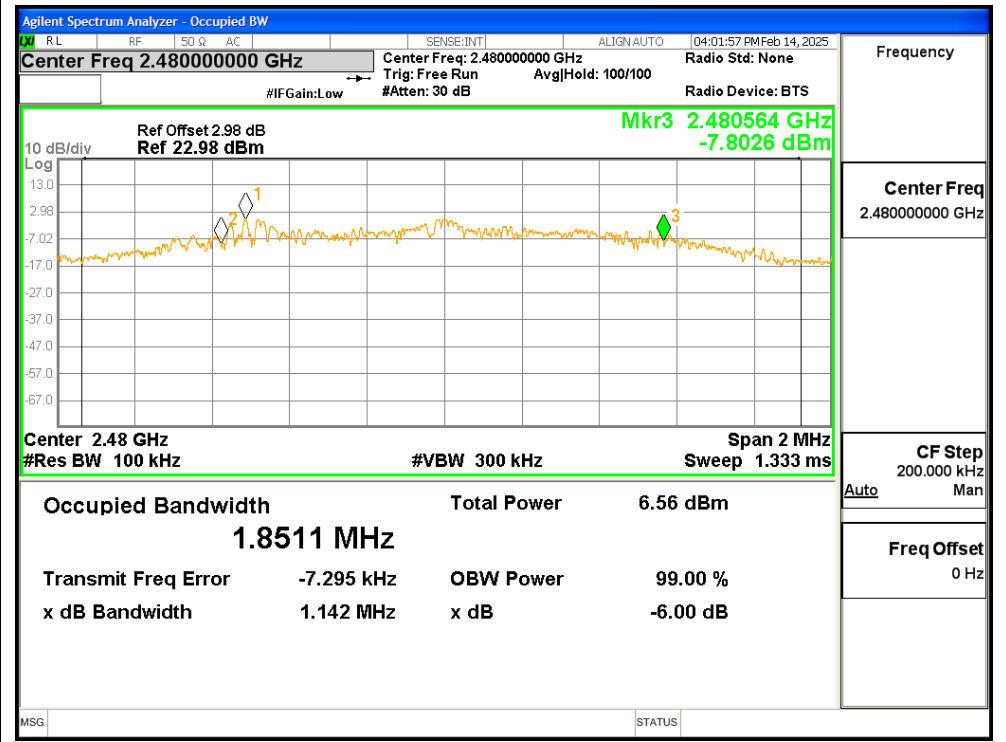


GTSL2025020052F05

-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1

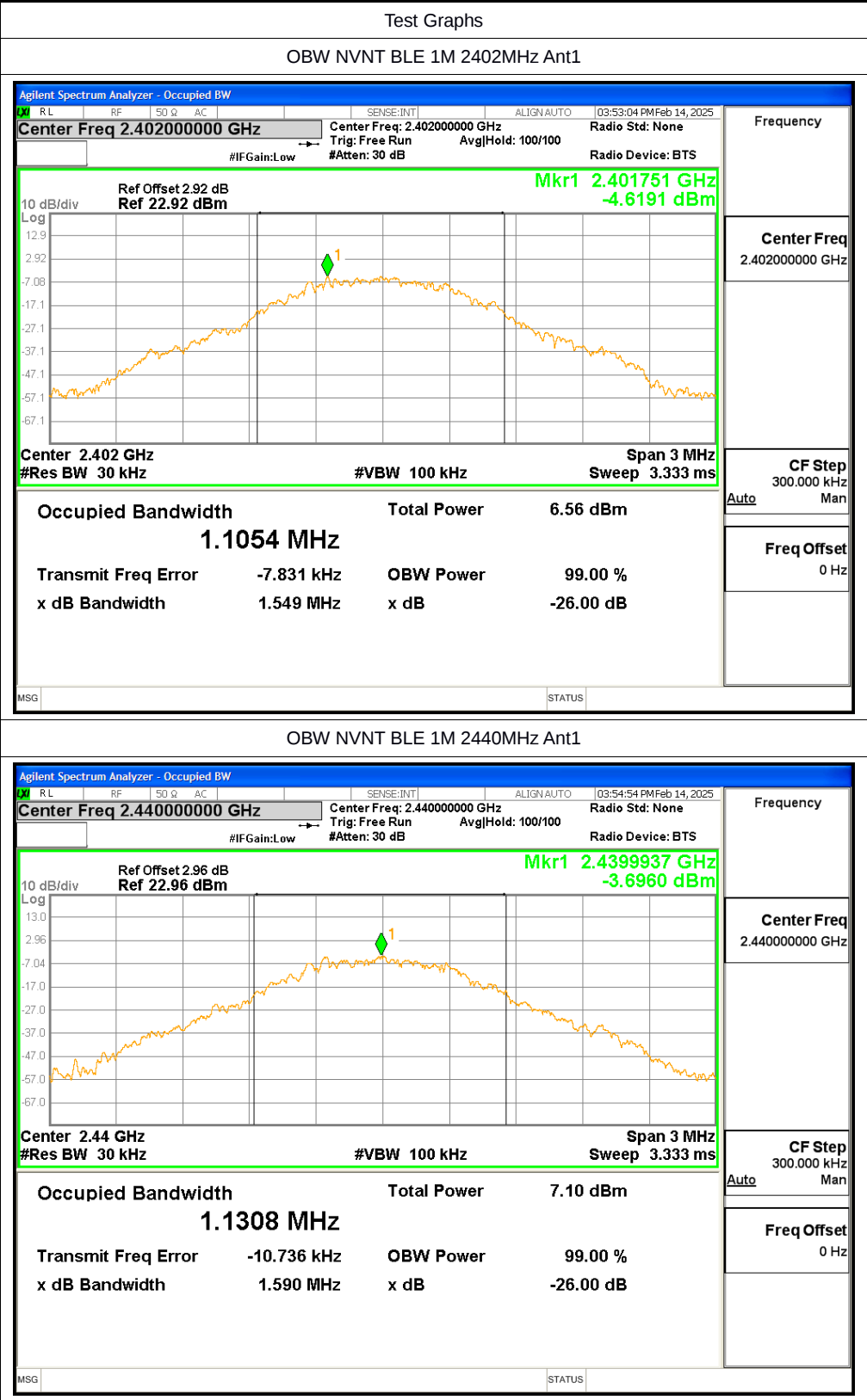


GTSL2025020052F05

Occupied Channel Bandwidth

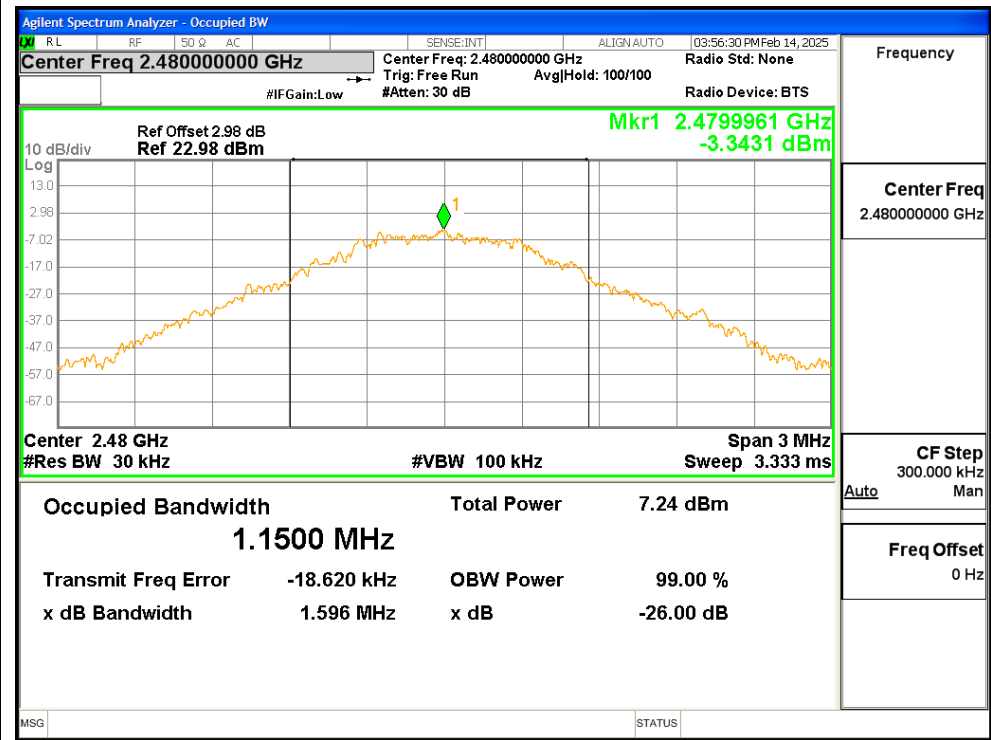
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.105
		2440		1.131
		2480		1.15
	BLE 2M	2402		2.065
		2440		2.048
		2480		2.066

GTSL2025020052F05

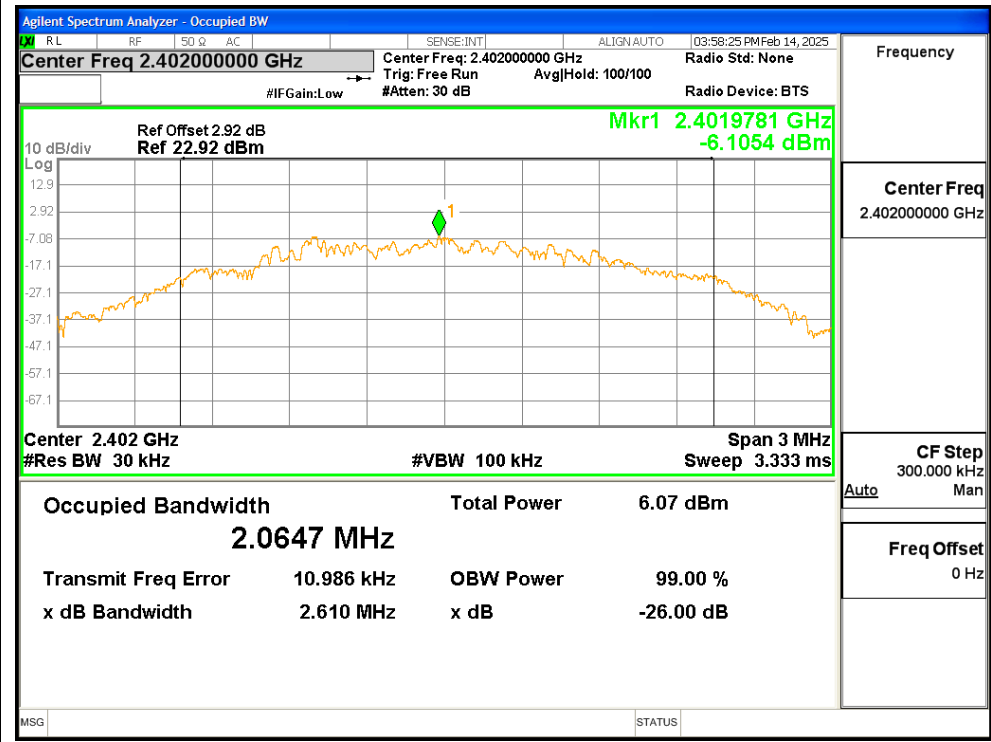


GTSL2025020052F05

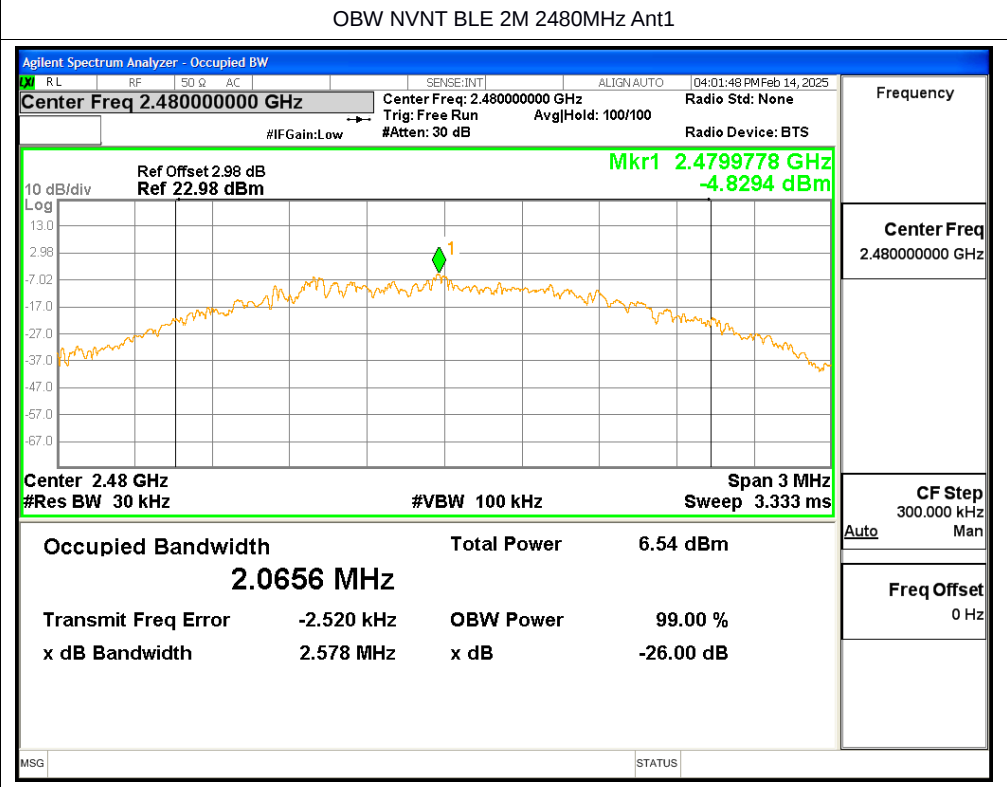
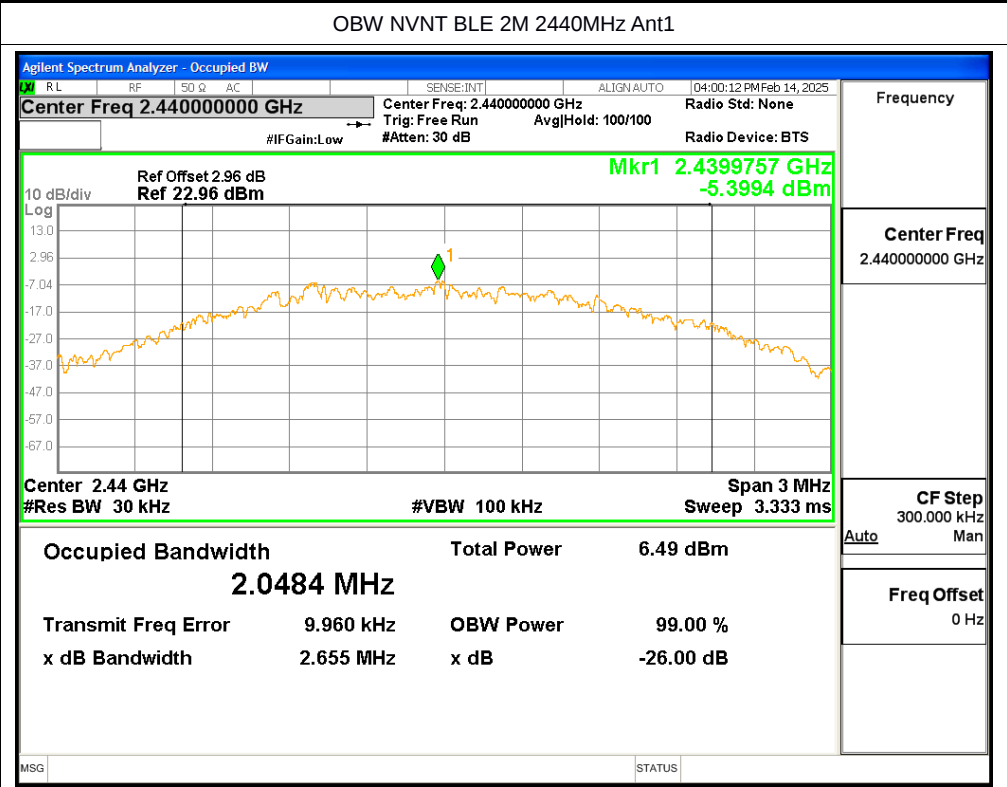
OBW NVNT BLE 1M 2480MHz Ant1



OBW NVNT BLE 2M 2402MHz Ant1



GTSL2025020052F05



GTSL2025020052F05

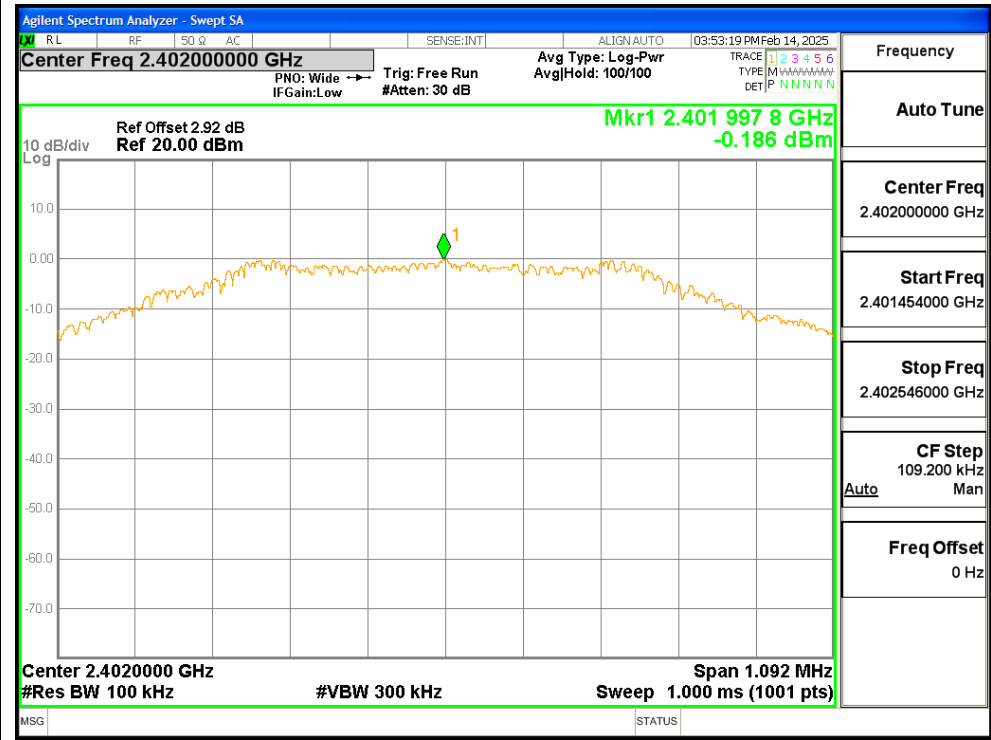
Maximum Power Spectral Density Level

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	-0.19	3.74	3.55	8	Pass
		2440		0.15	3.73	3.88	8	Pass
		2480		0.45	3.74	4.19	8	Pass
	BLE 2M	2402		0.16	6.54	6.7	8	Pass
		2440		0.33	6.55	6.88	8	Pass
		2480		0.52	6.55	7.07	8	Pass

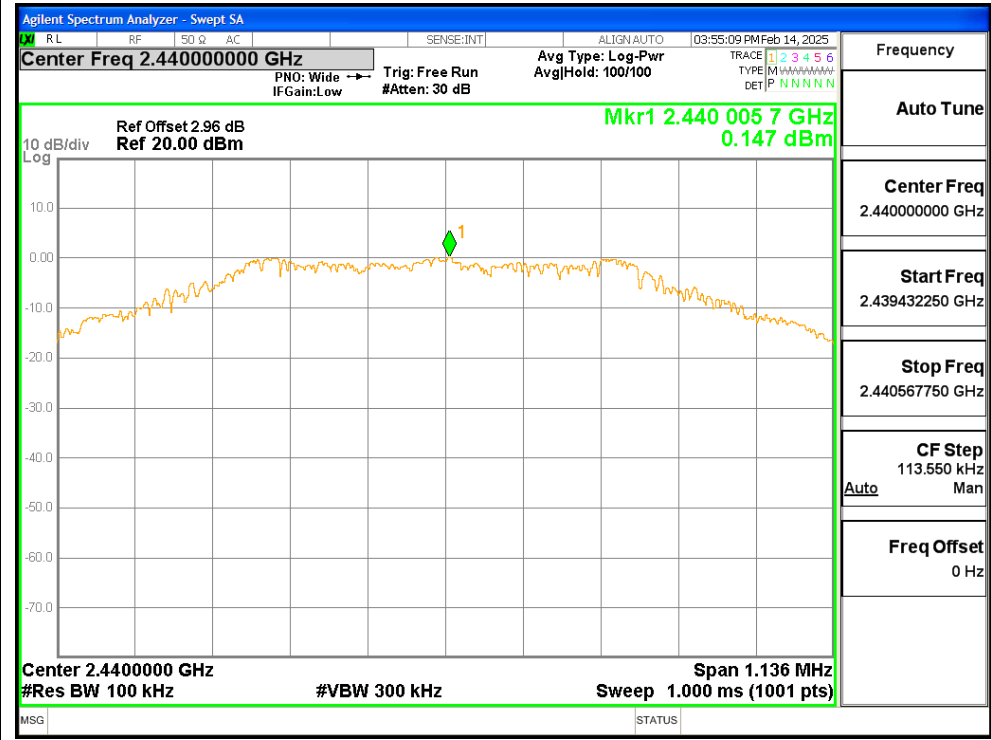
GTSL2025020052F05

Test Graphs

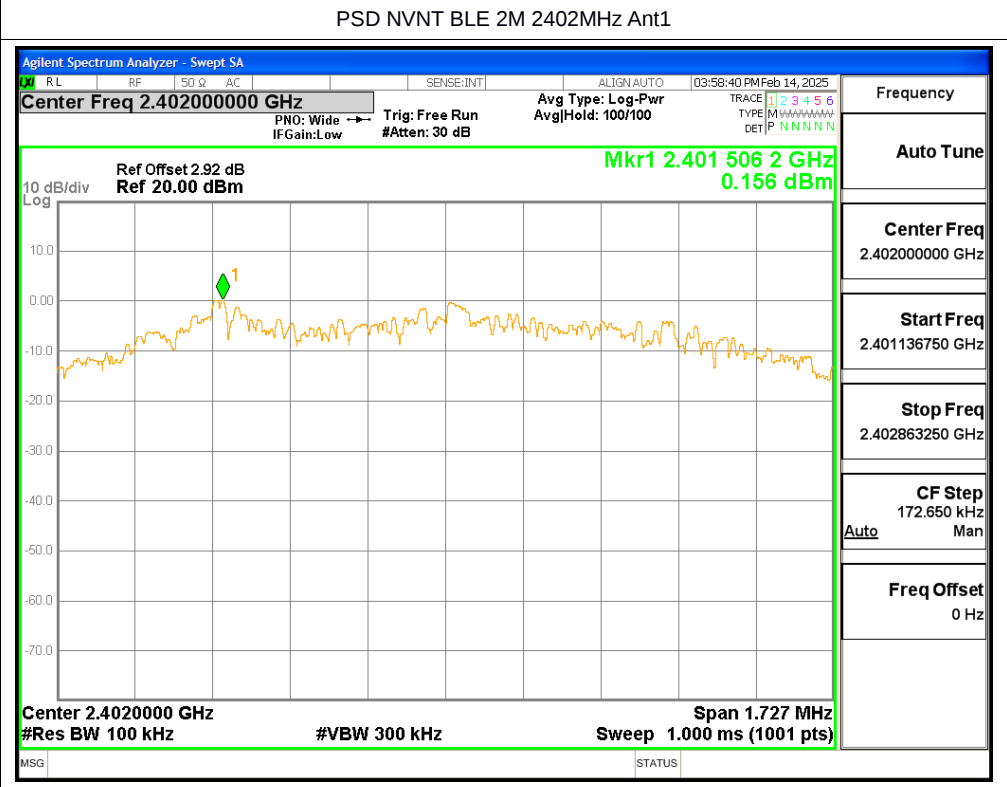
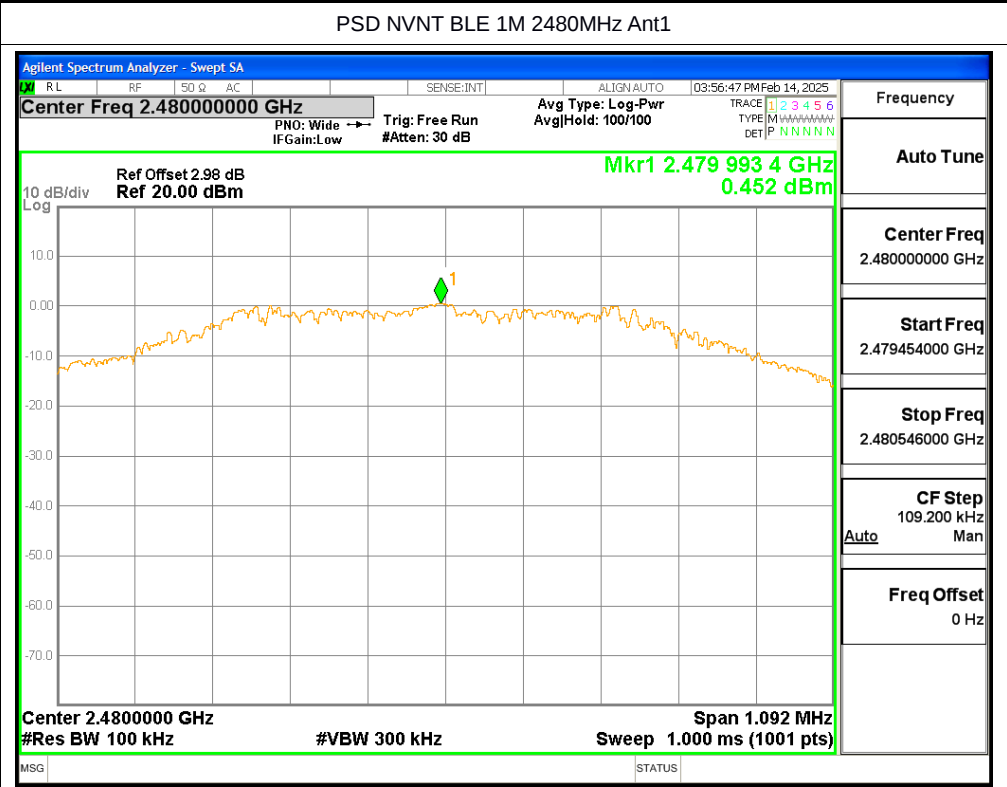
PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

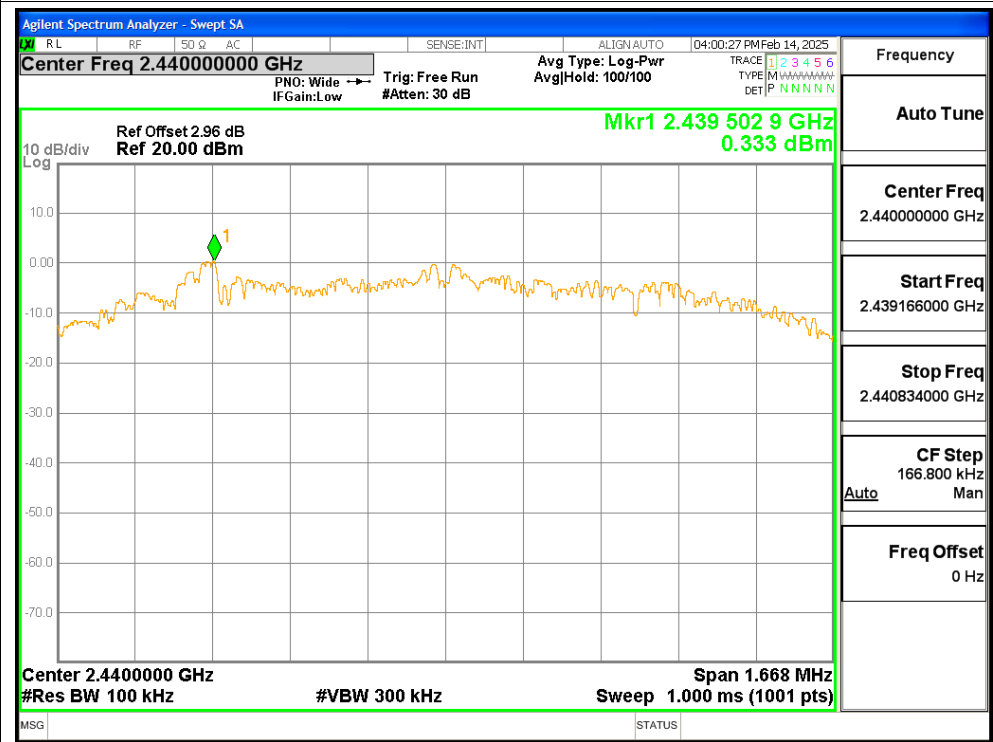


GTSL2025020052F05

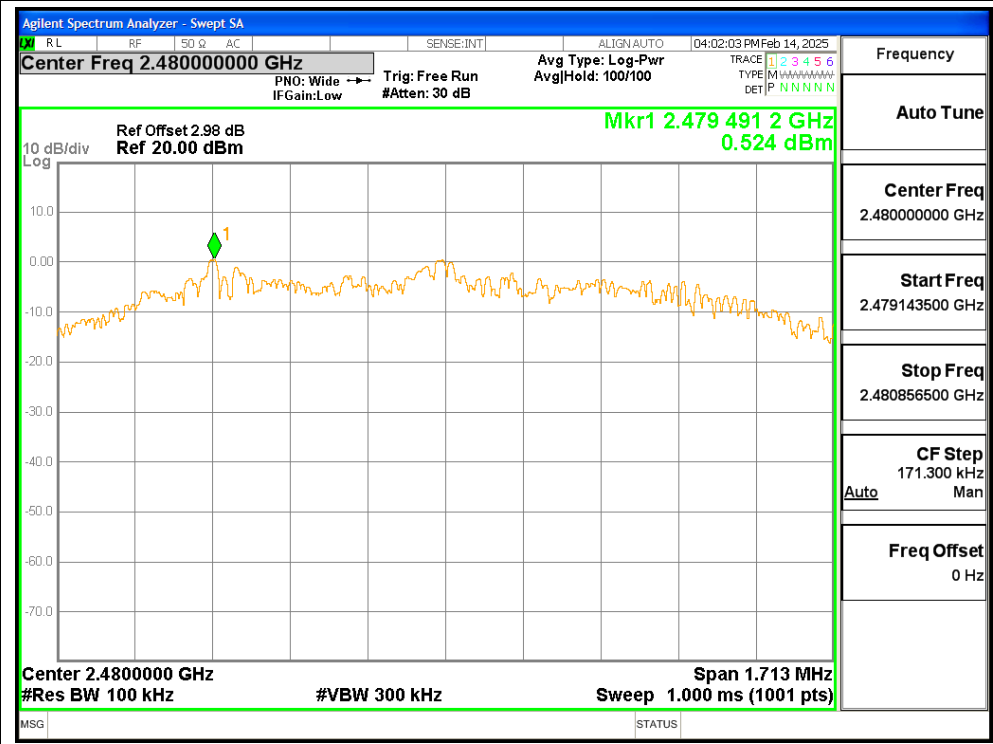


GTSL2025020052F05

PSD NVNT BLE 2M 2440MHz Ant1



PSD NVNT BLE 2M 2480MHz Ant1



GTSL2025020052F05

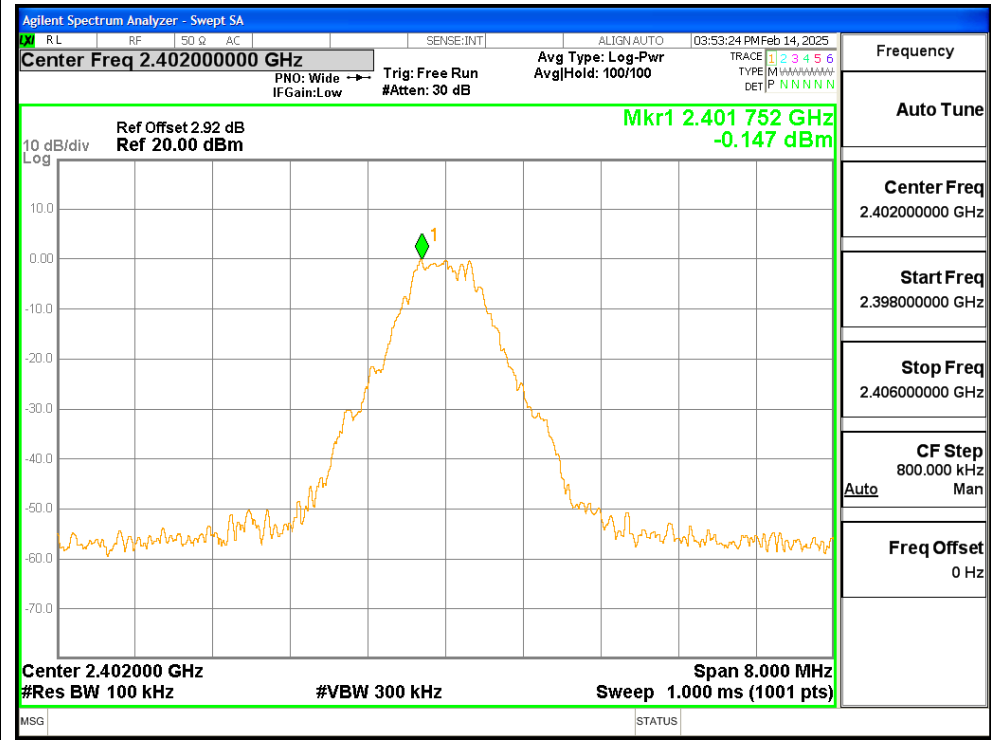
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-51.76	-20	Pass
		2480		-52.84	-20	Pass
	BLE 2M	2402		-34.23	-20	Pass
		2480		-50.6	-20	Pass

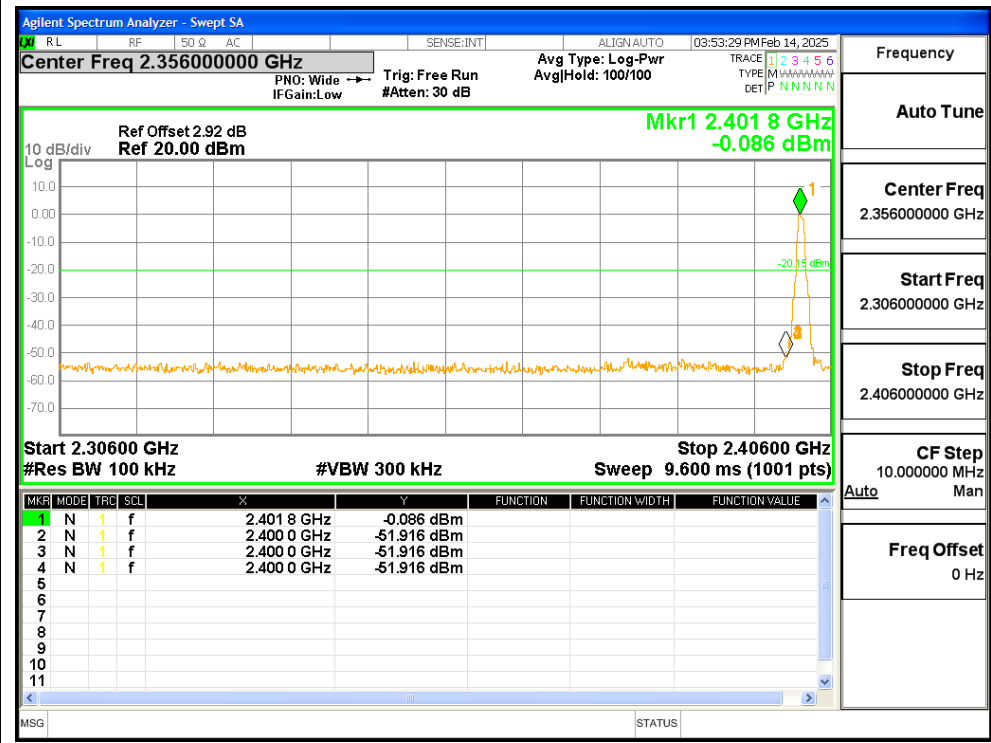
GTSL2025020052F05

Test Graphs

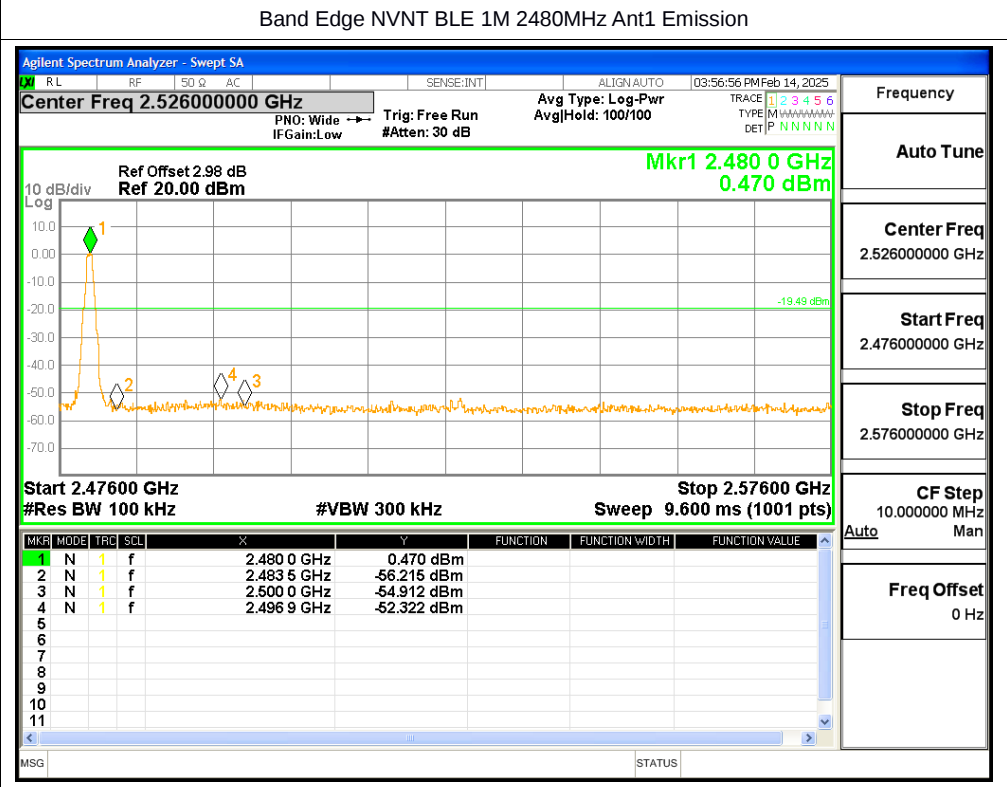
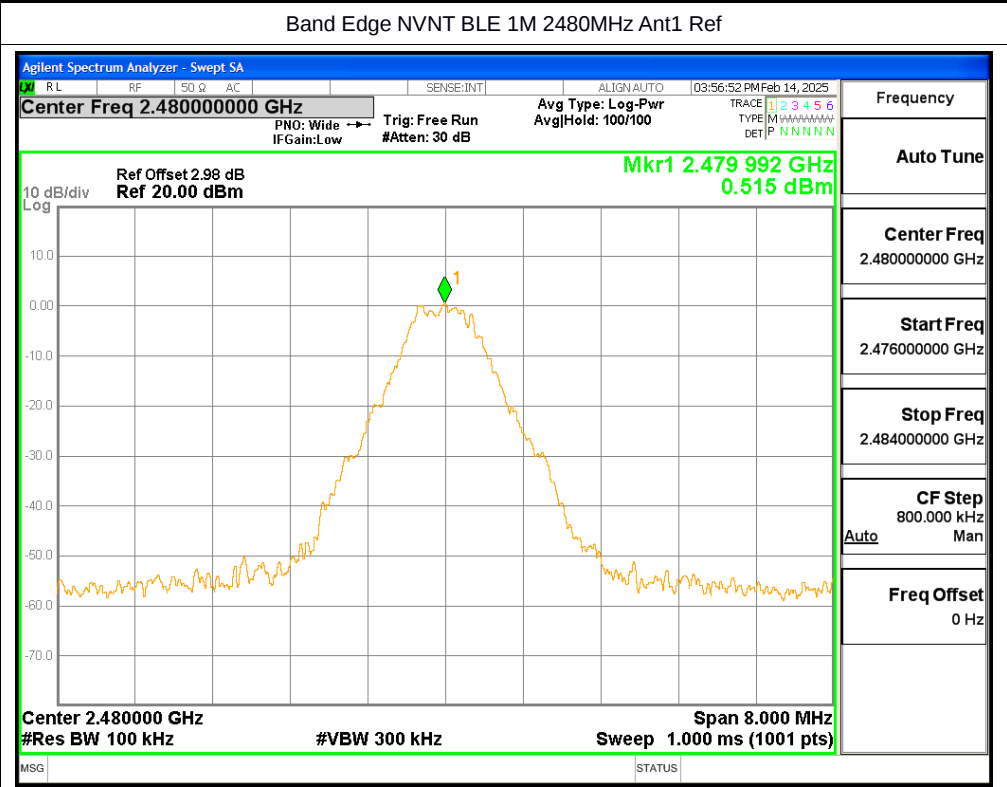
Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



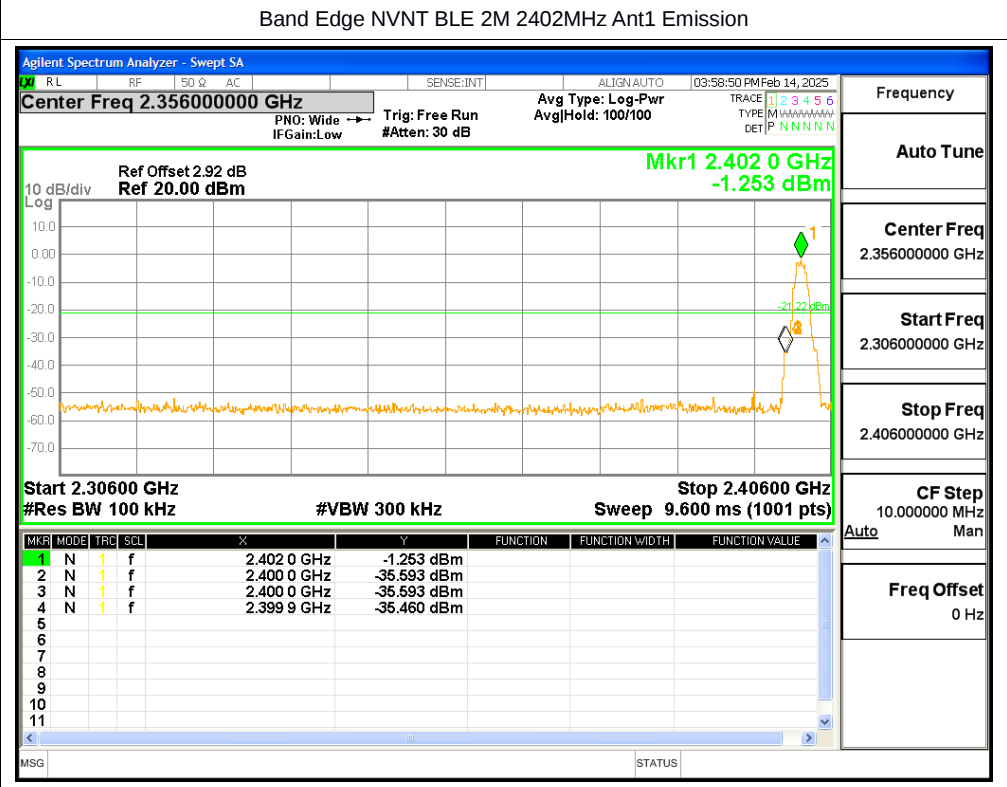
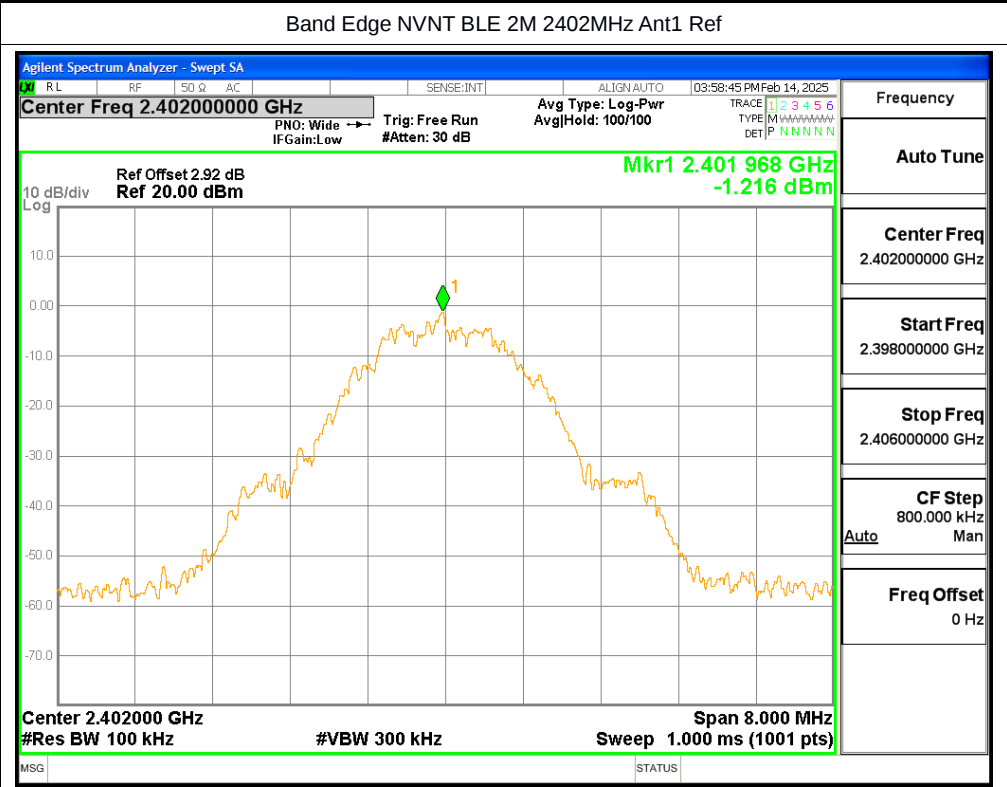
Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



GTSL2025020052F05

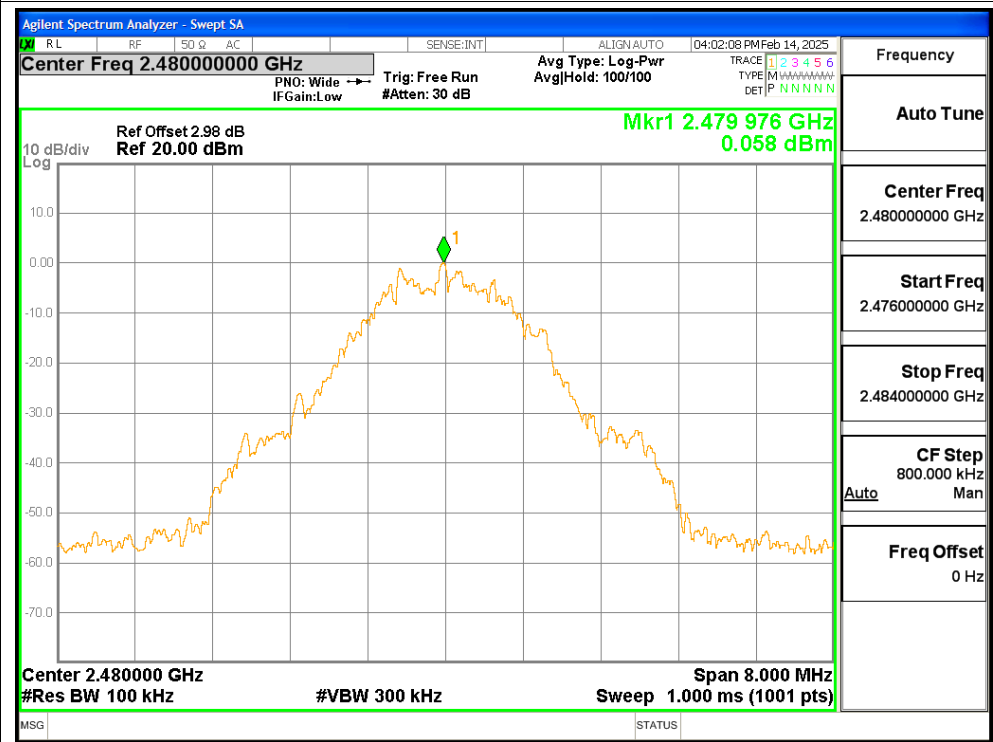


GTSL2025020052F05

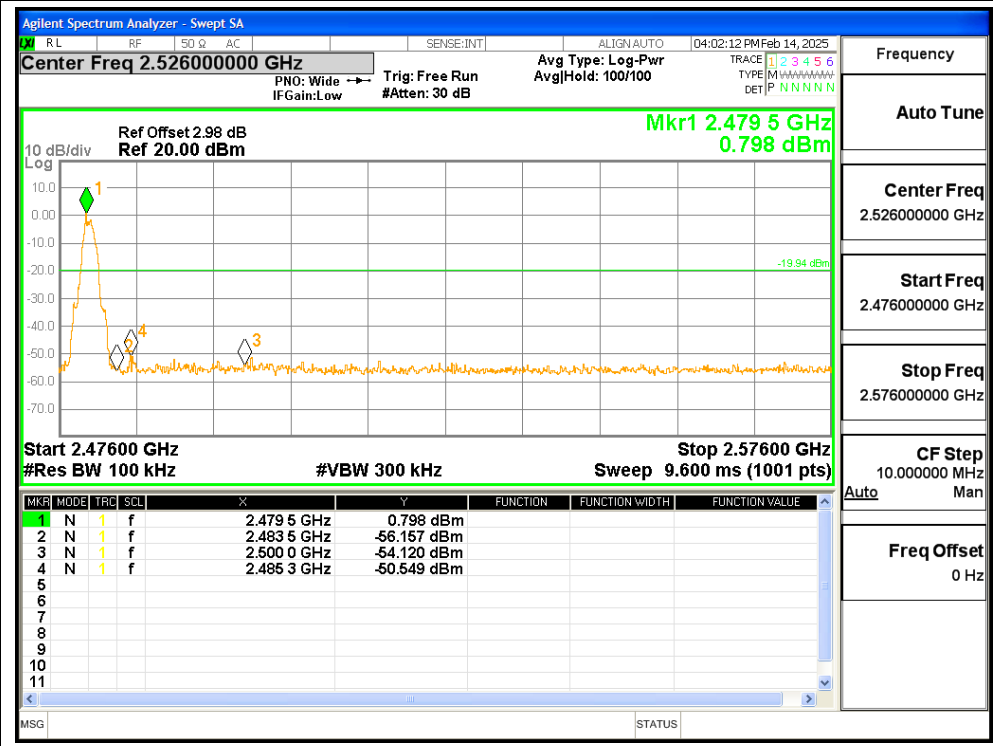


GTSL2025020052F05

Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



Band Edge NVNT BLE 2M 2480MHz Ant1 Emission



GTSL2025020052F05

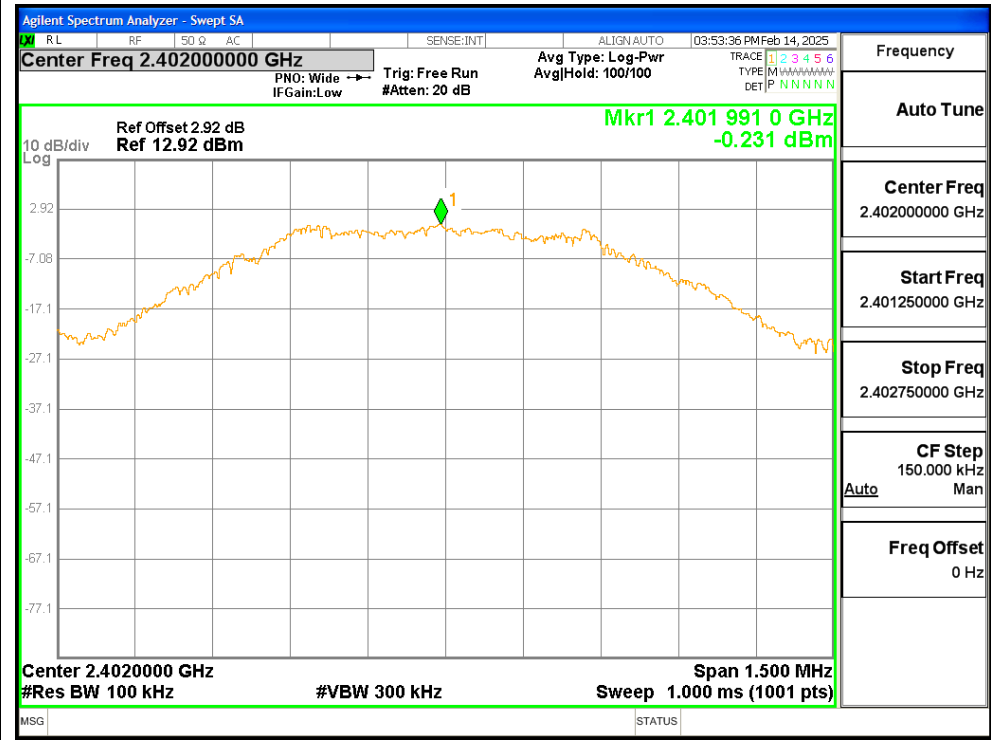
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-39.84	-20	Pass
		2440		-42.25	-20	Pass
		2480		-41.79	-20	Pass
	BLE 2M	2402		-40.57	-20	Pass
		2440		-43.45	-20	Pass
		2480		-43.23	-20	Pass

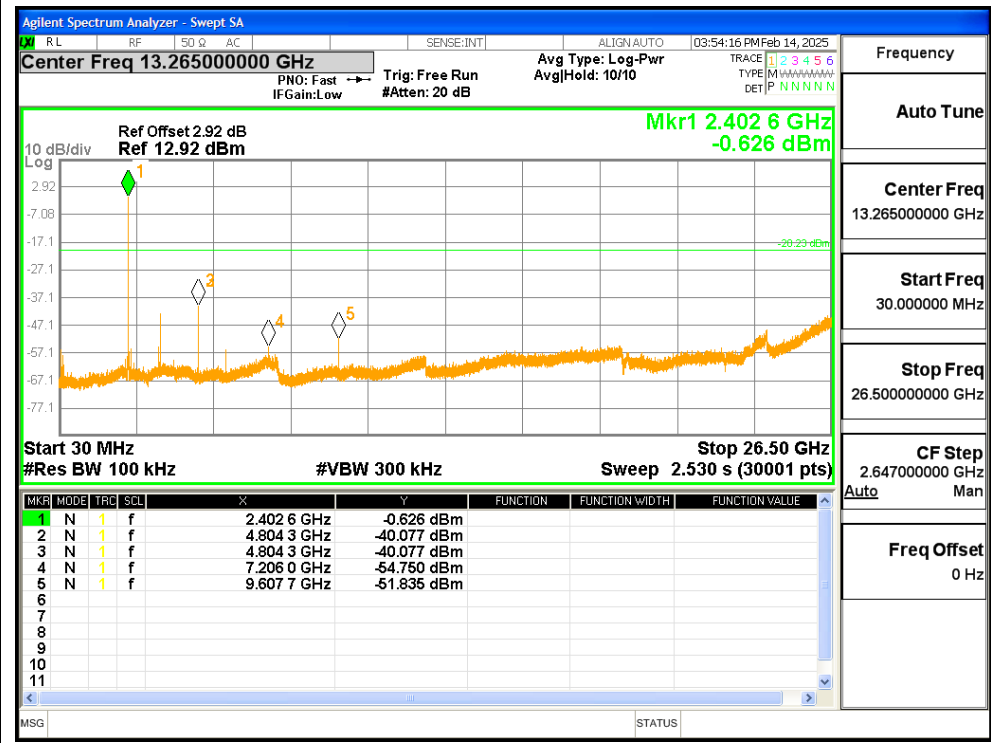
GTSL2025020052F05

Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref

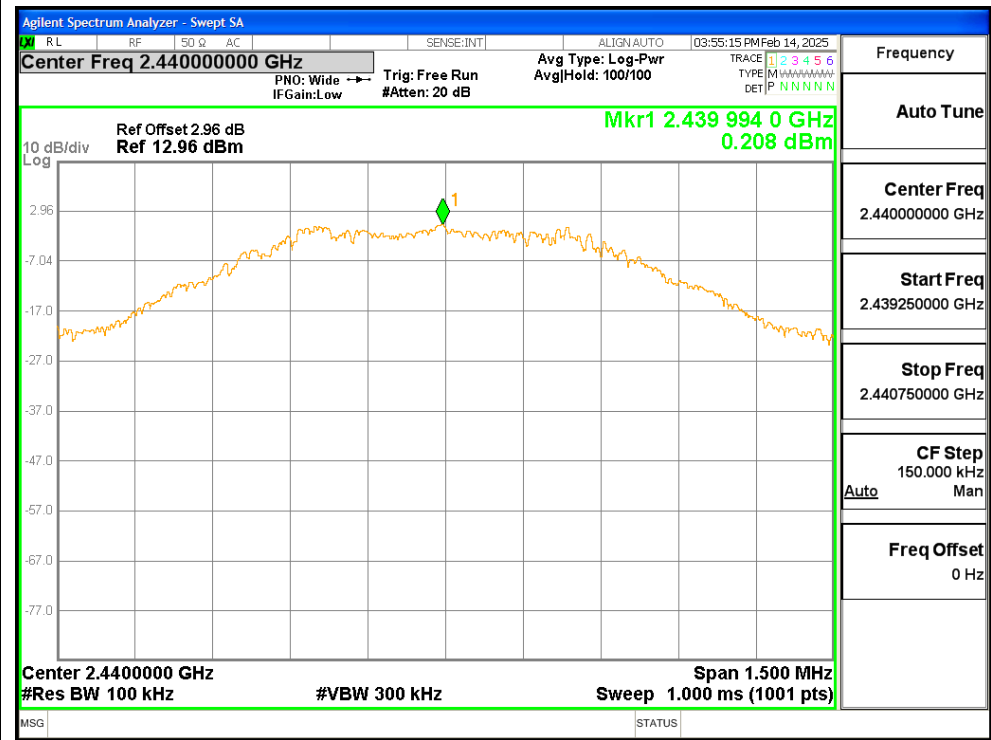


Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission

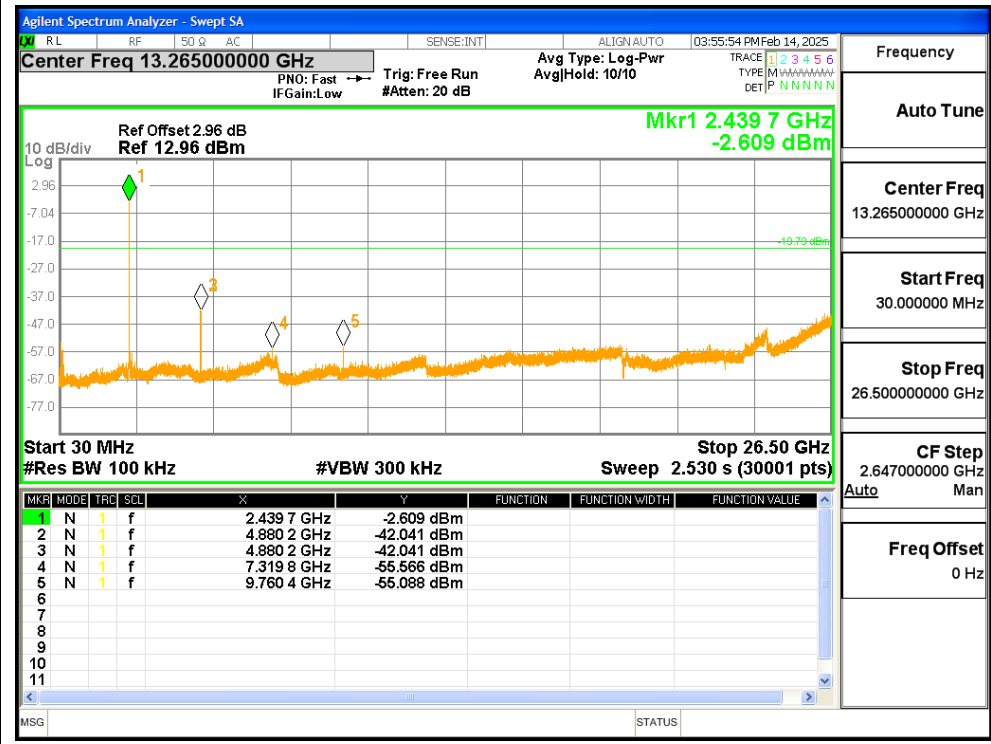


GTSL2025020052F05

Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref

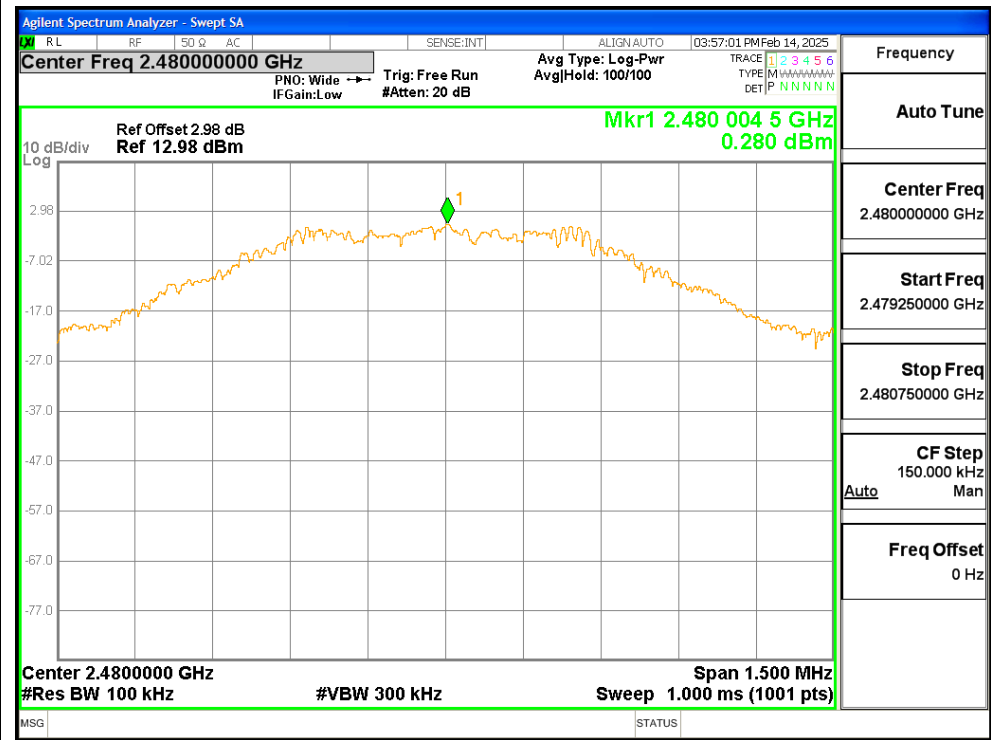


Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission

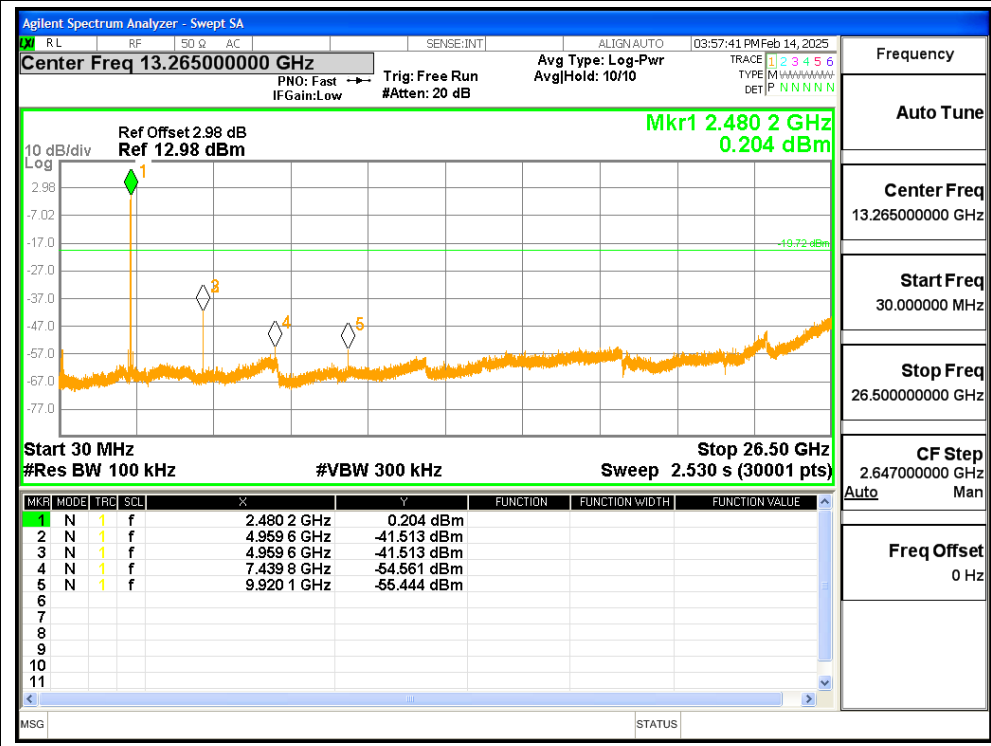


GTSL2025020052F05

Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref

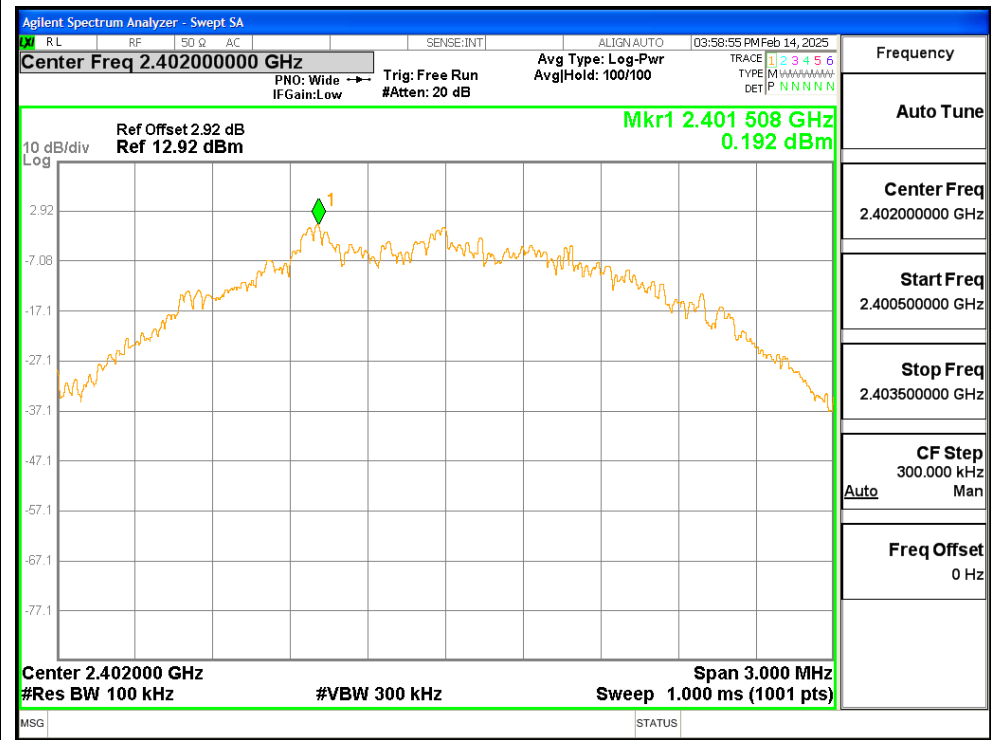


Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission

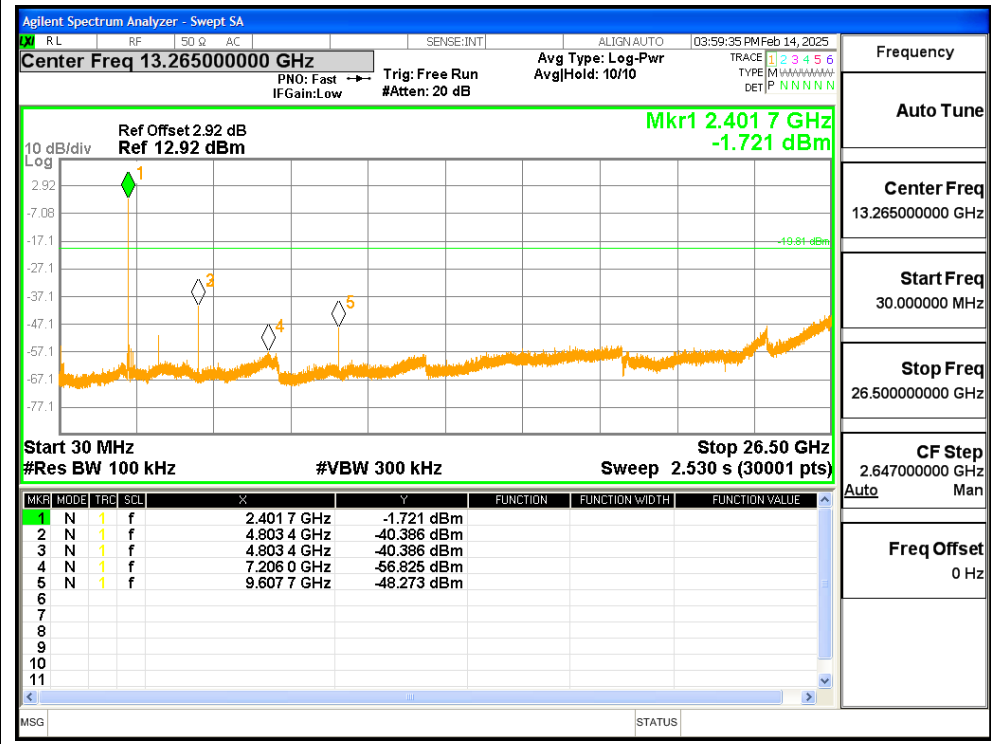


GTSL2025020052F05

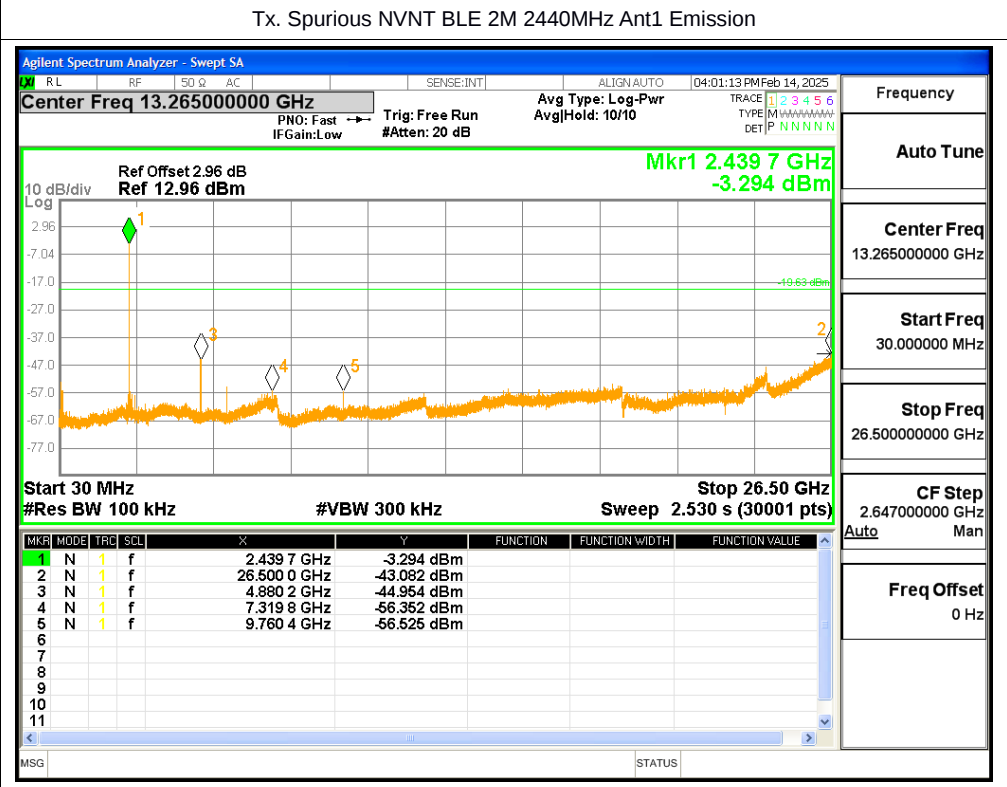
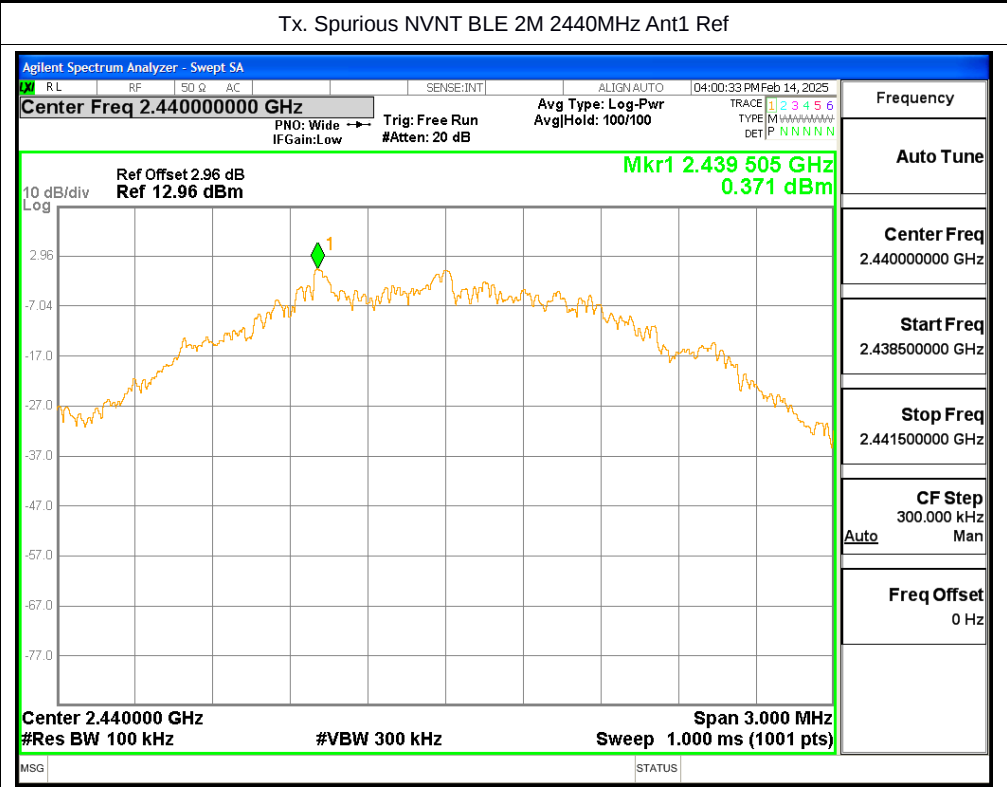
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission

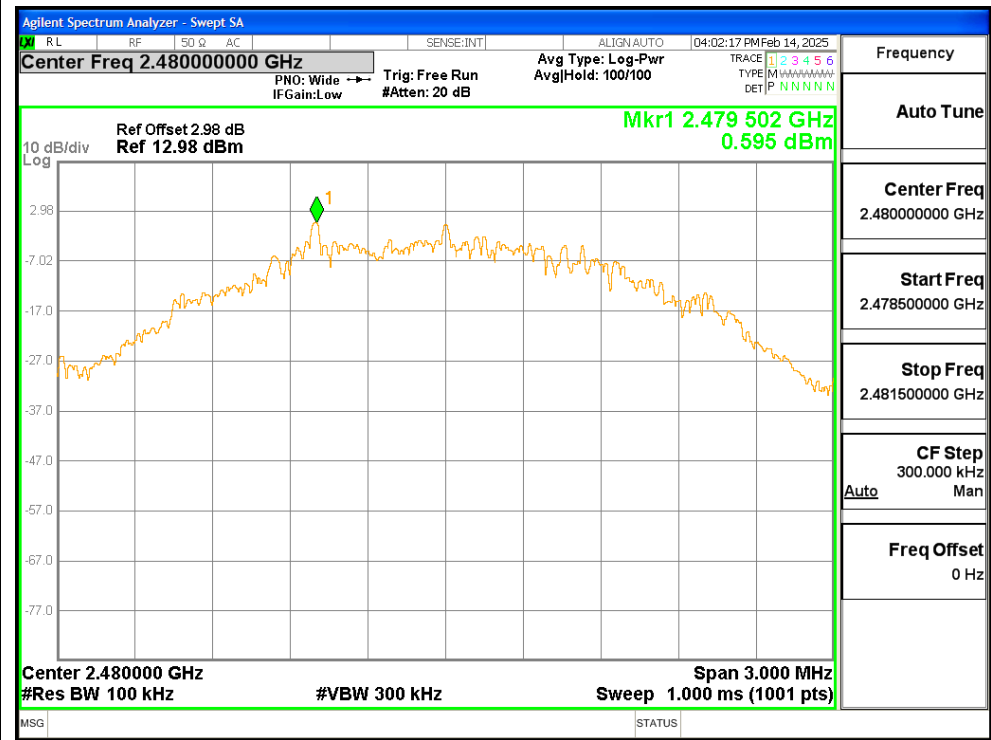


GTSL2025020052F05



GTSL2025020052F05

Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission

