

Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: Portable Power station

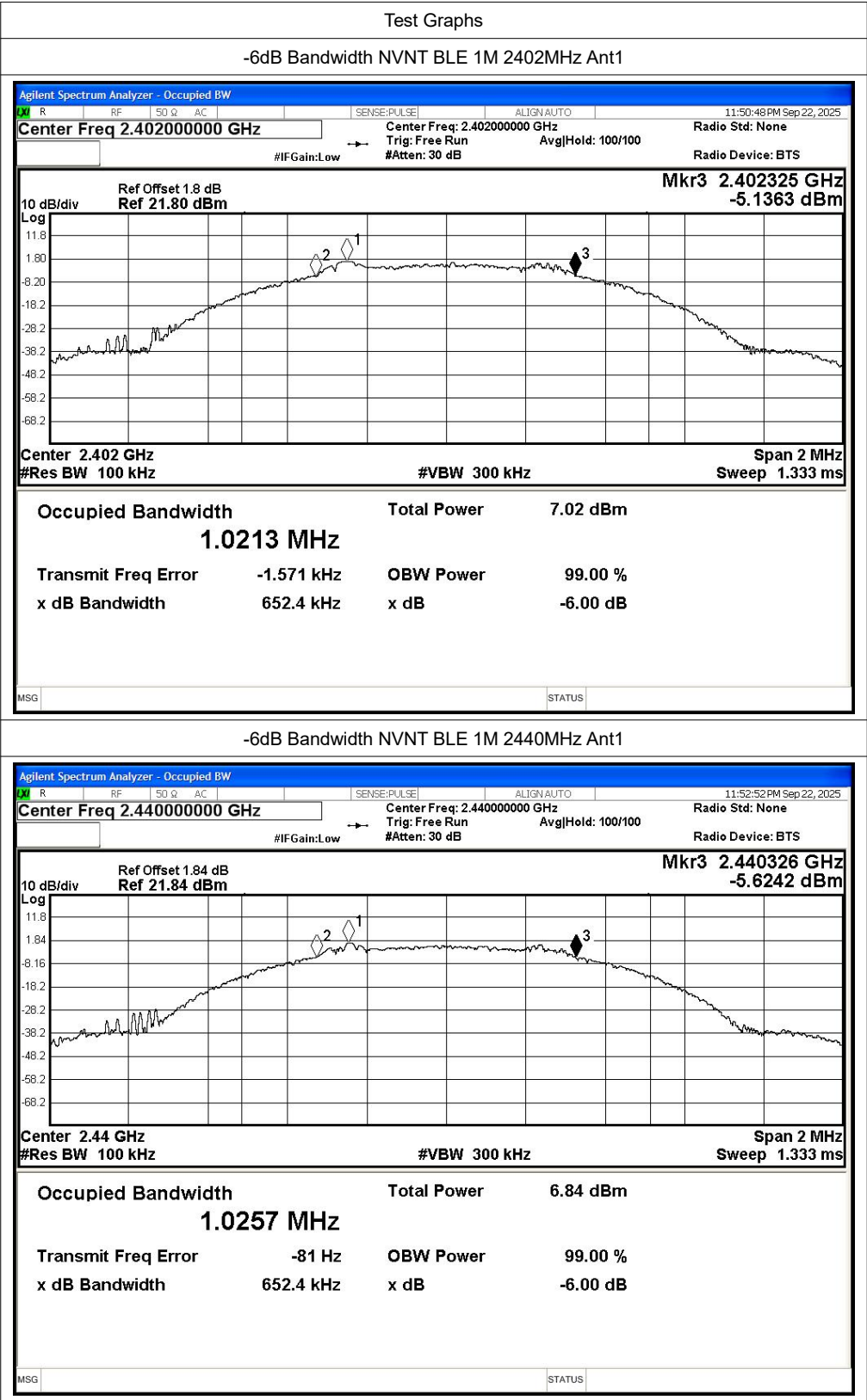
Test Model: P5000 PRO

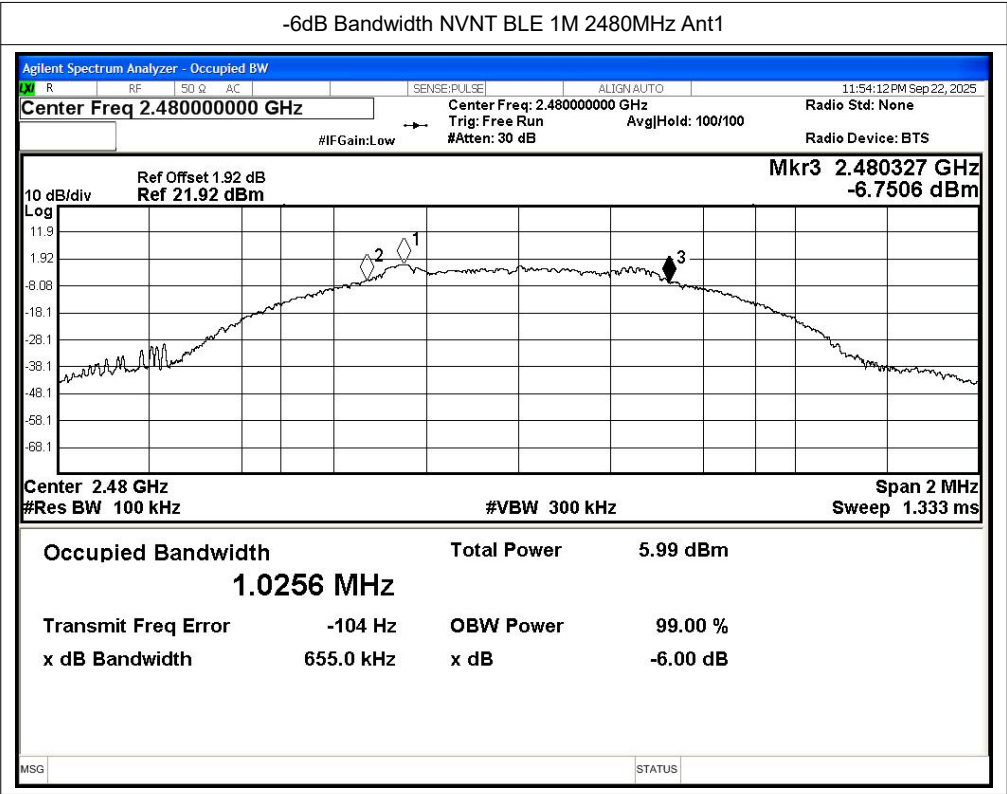
Environmental Conditions

Temperature:	23.4 ° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Jone Lee
Supervised by:	Fengliu Tang

A.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.652	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.652	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.655	≥ 0.5	Pass



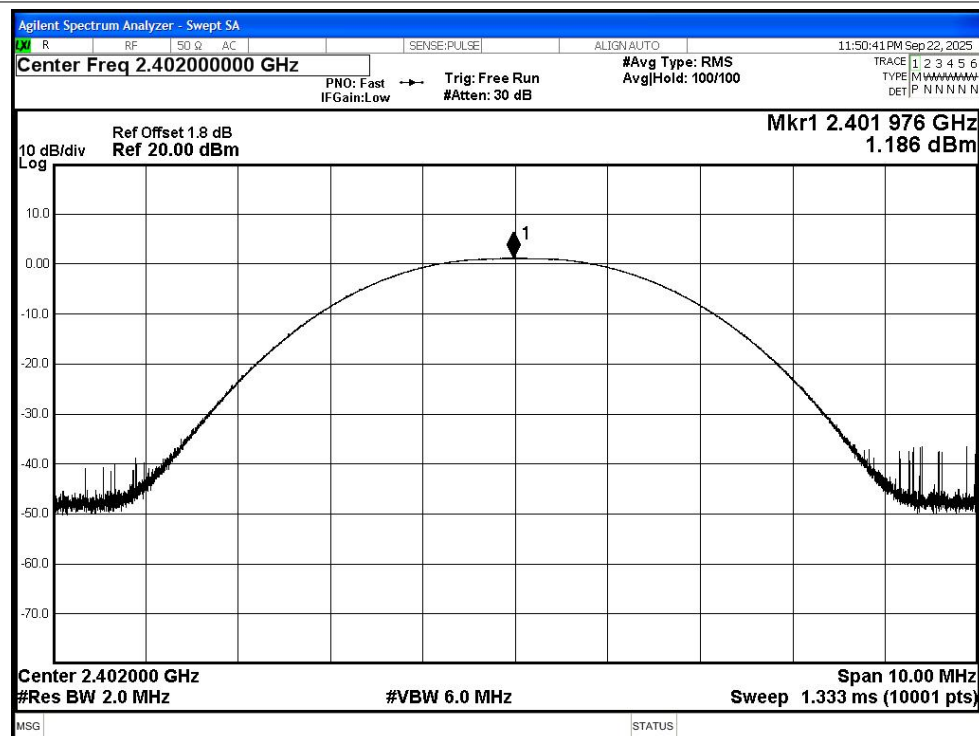


A.2 Maximum Peak Conducted Output Power

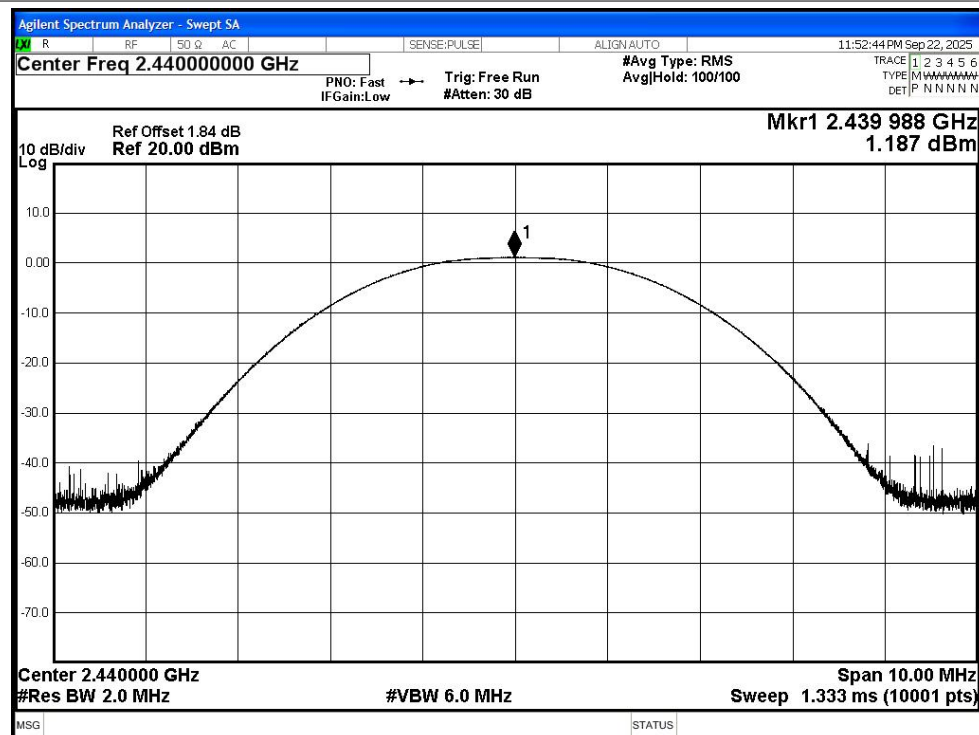
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	1.19	30	Pass
NVNT	BLE 1M	2440	Ant1	1.19	30	Pass
NVNT	BLE 1M	2480	Ant1	0.18	30	Pass

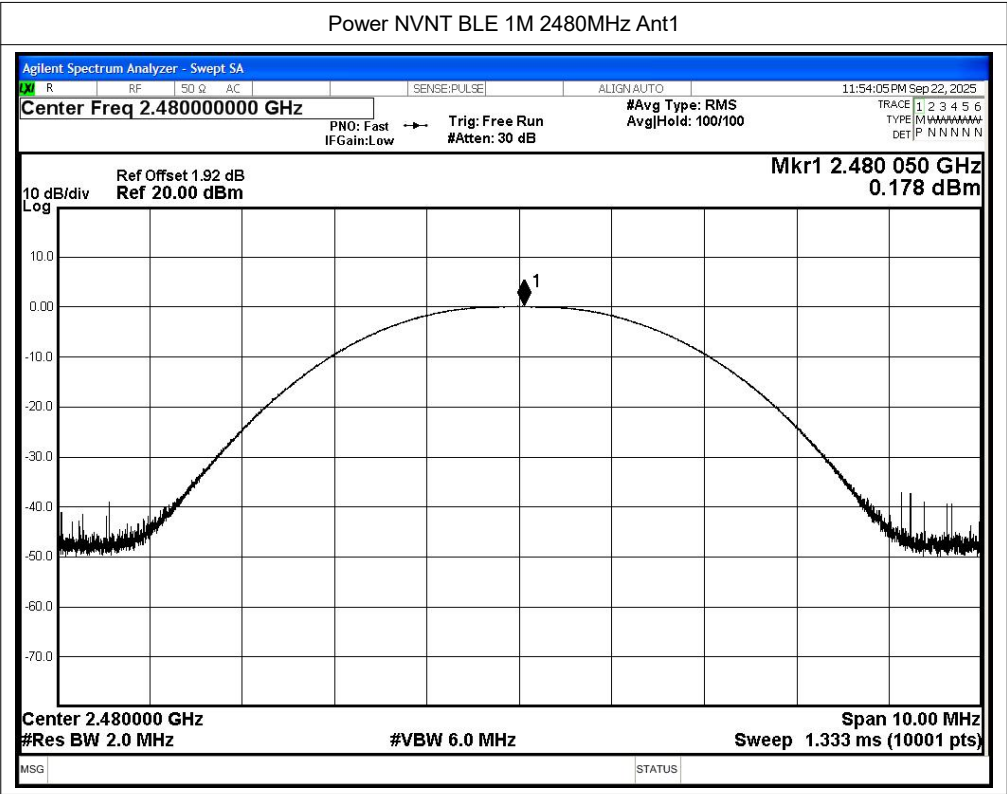
Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1



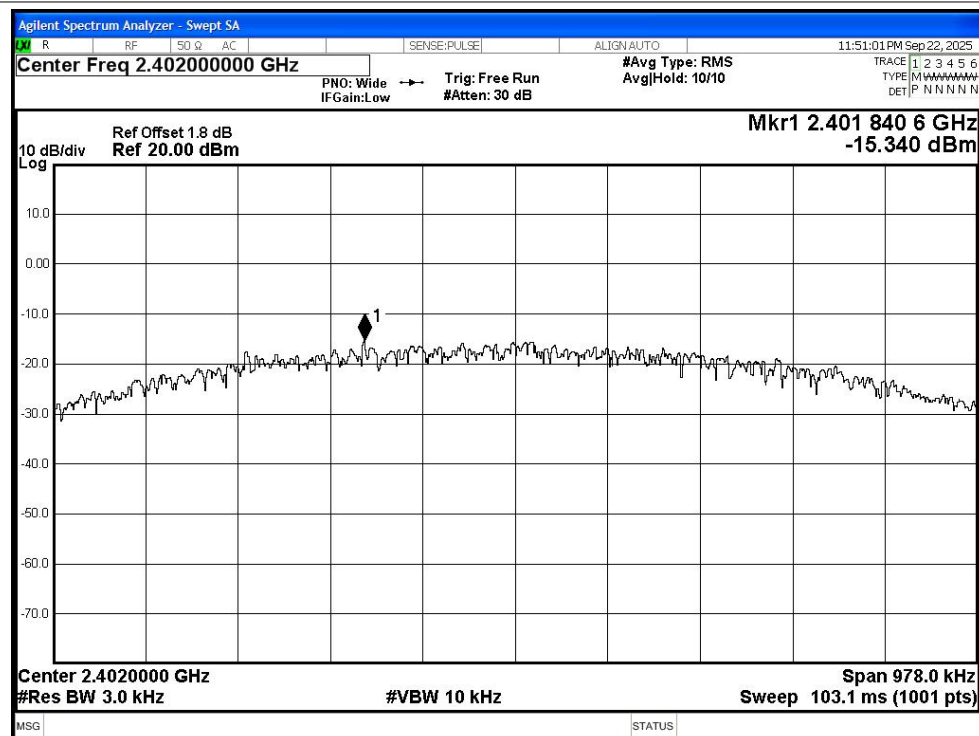


A.3 Maximum Power Spectral Density Level

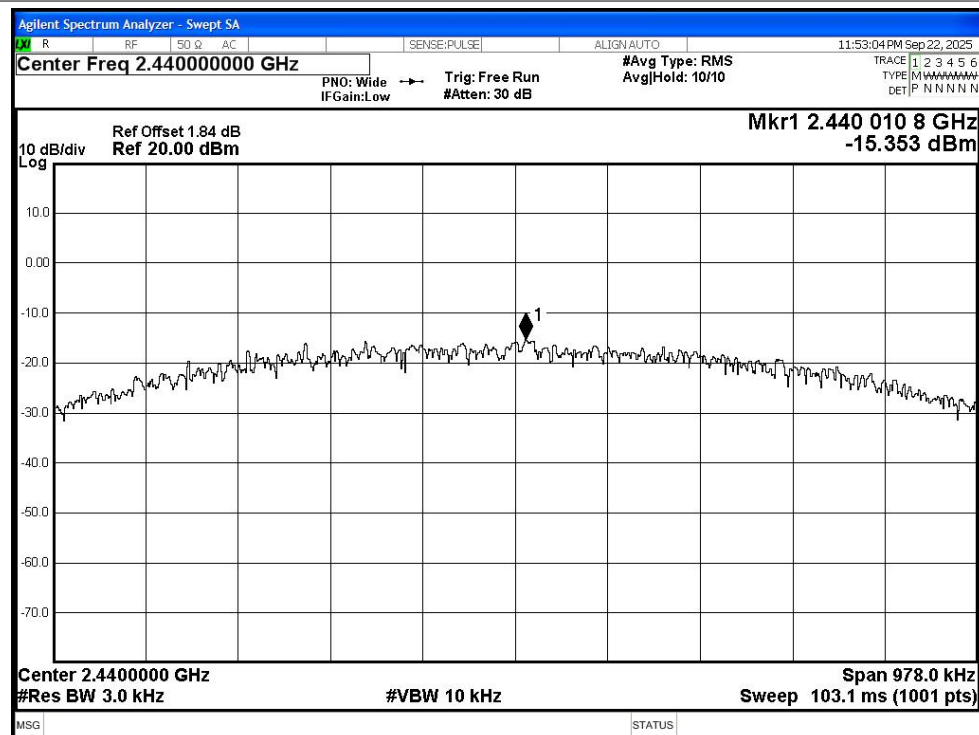
Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-15.34	8	Pass
NVNT	BLE 1M	2440	Ant1	-15.35	8	Pass
NVNT	BLE 1M	2480	Ant1	-16.4	8	Pass

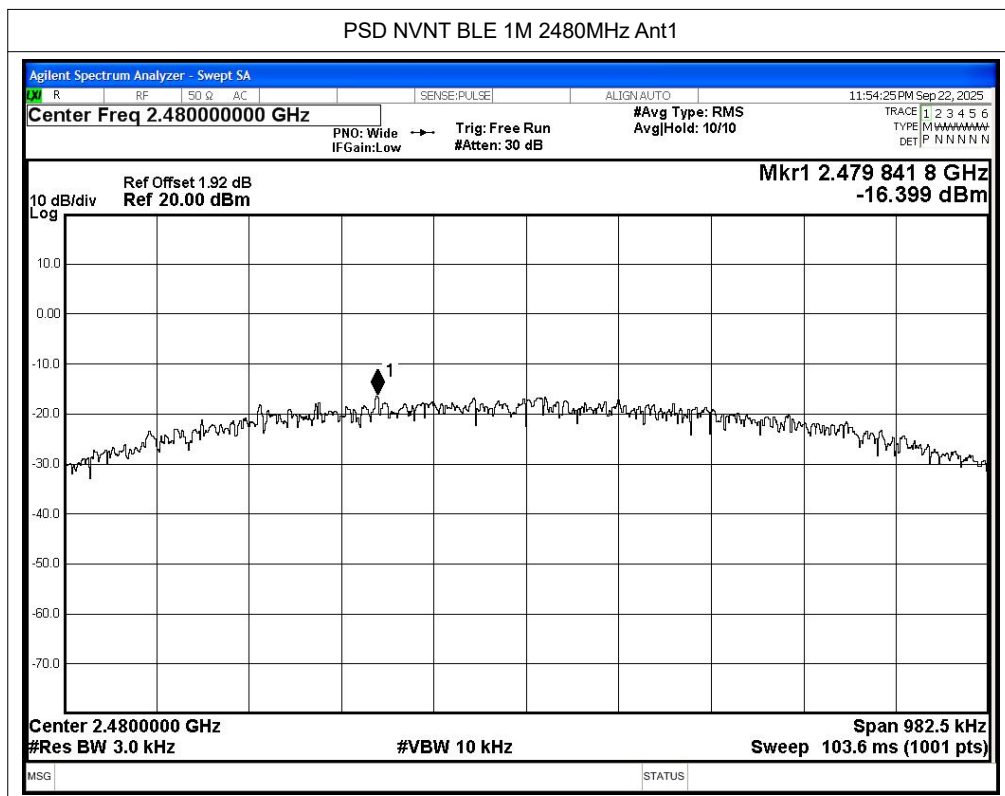
Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1



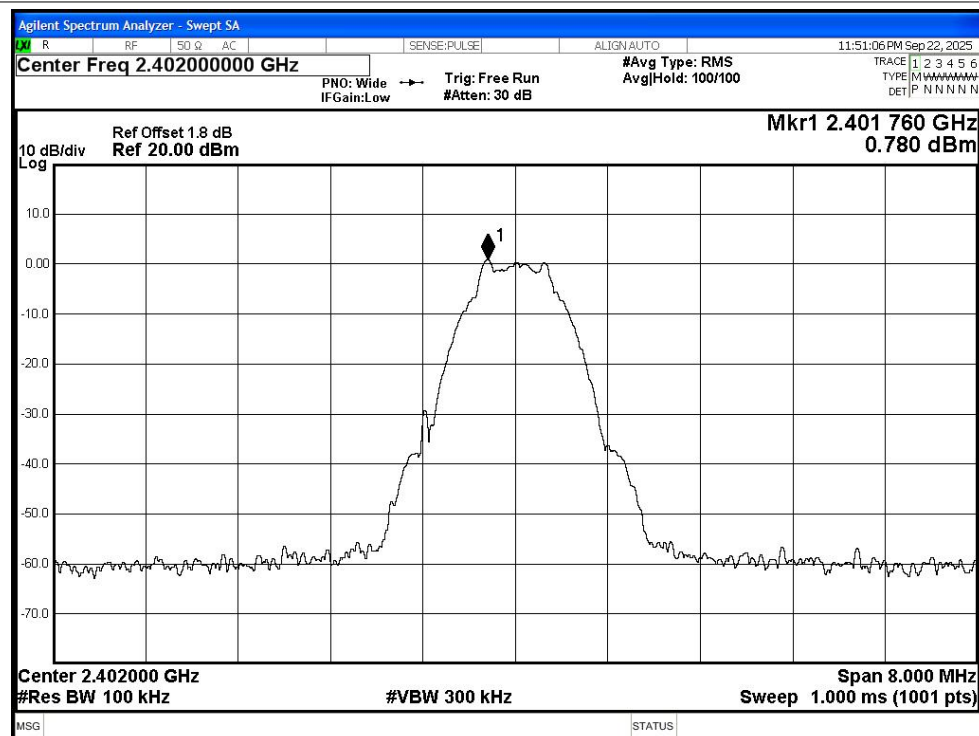


A.4 Band Edge

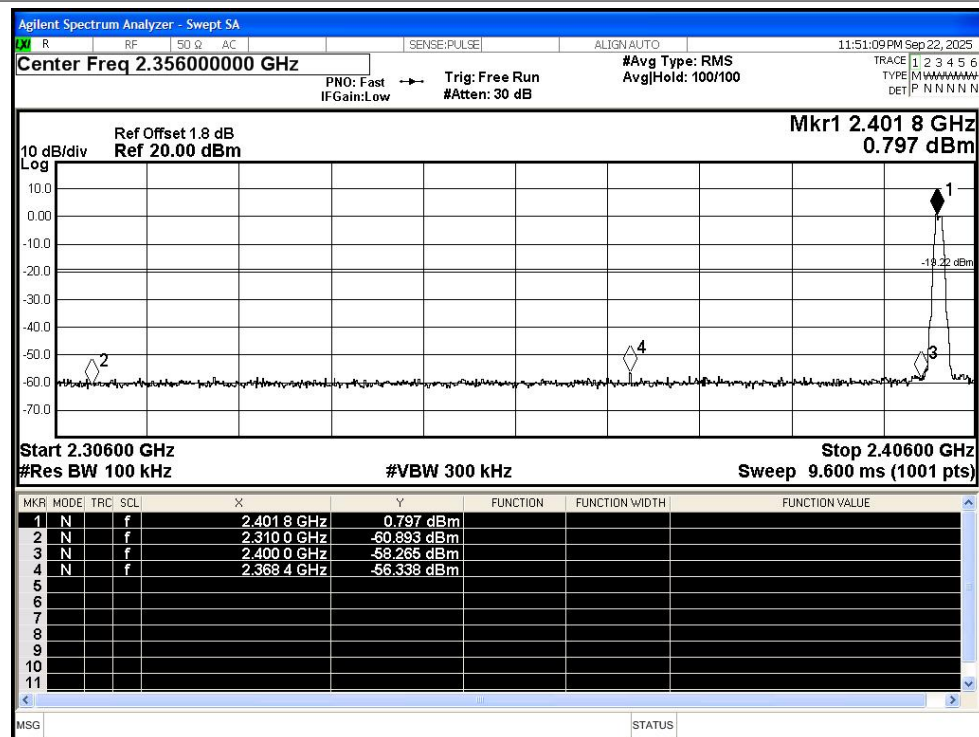
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-57.12	-20	Pass
NVNT	BLE 1M	2480	Ant1	-56.89	-20	Pass

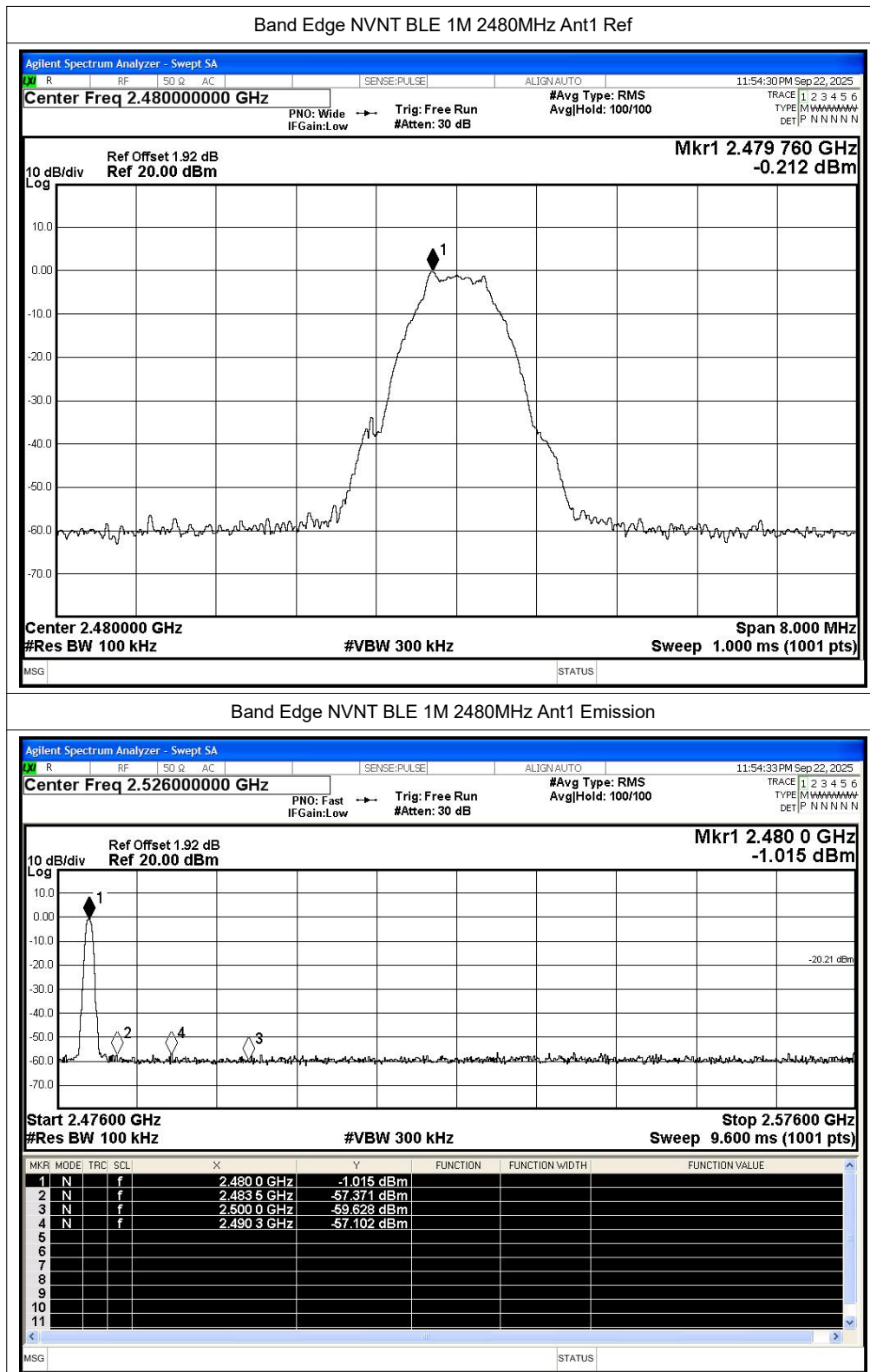
Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



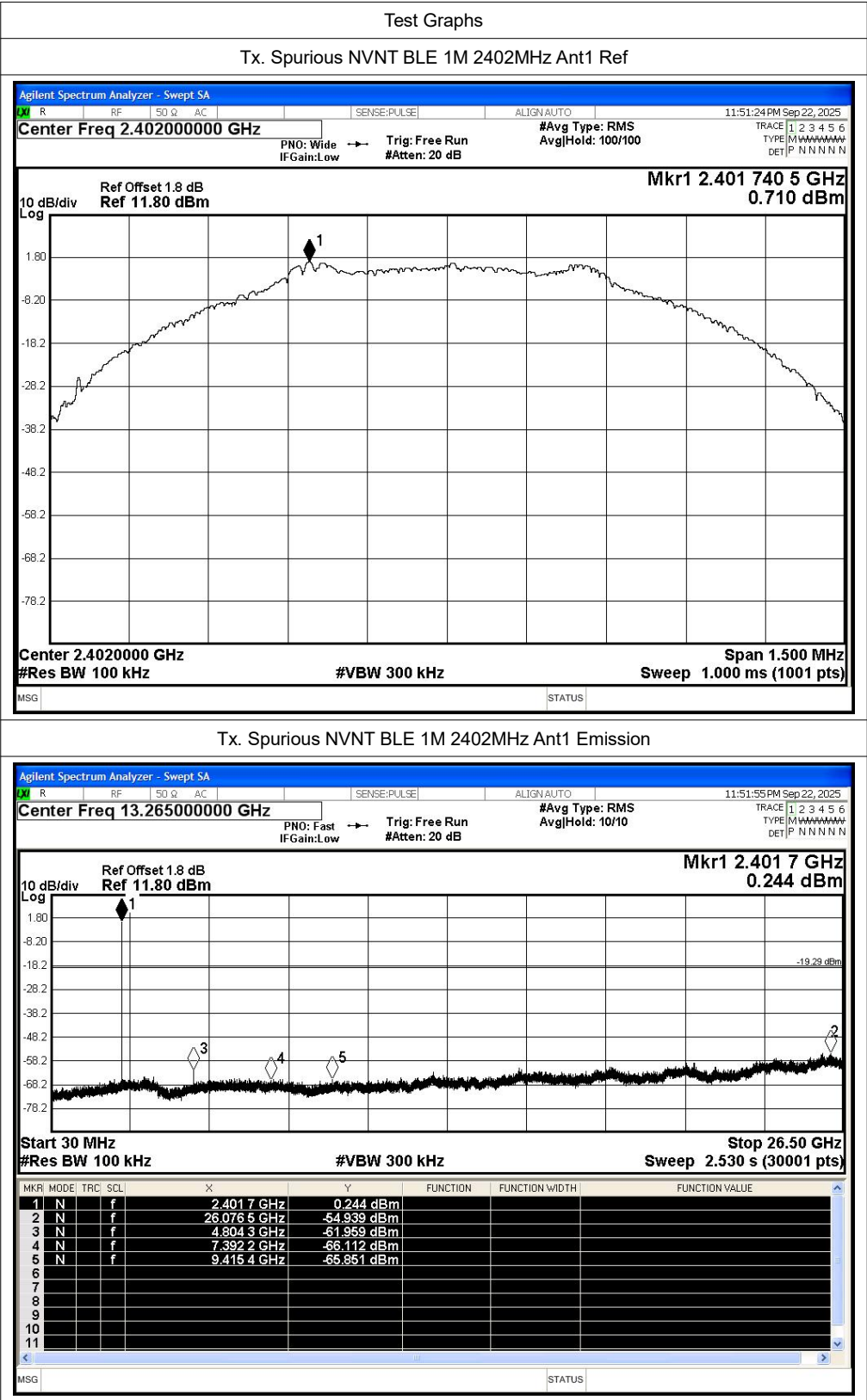
Band Edge NVNT BLE 1M 2402MHz Ant1 Emission

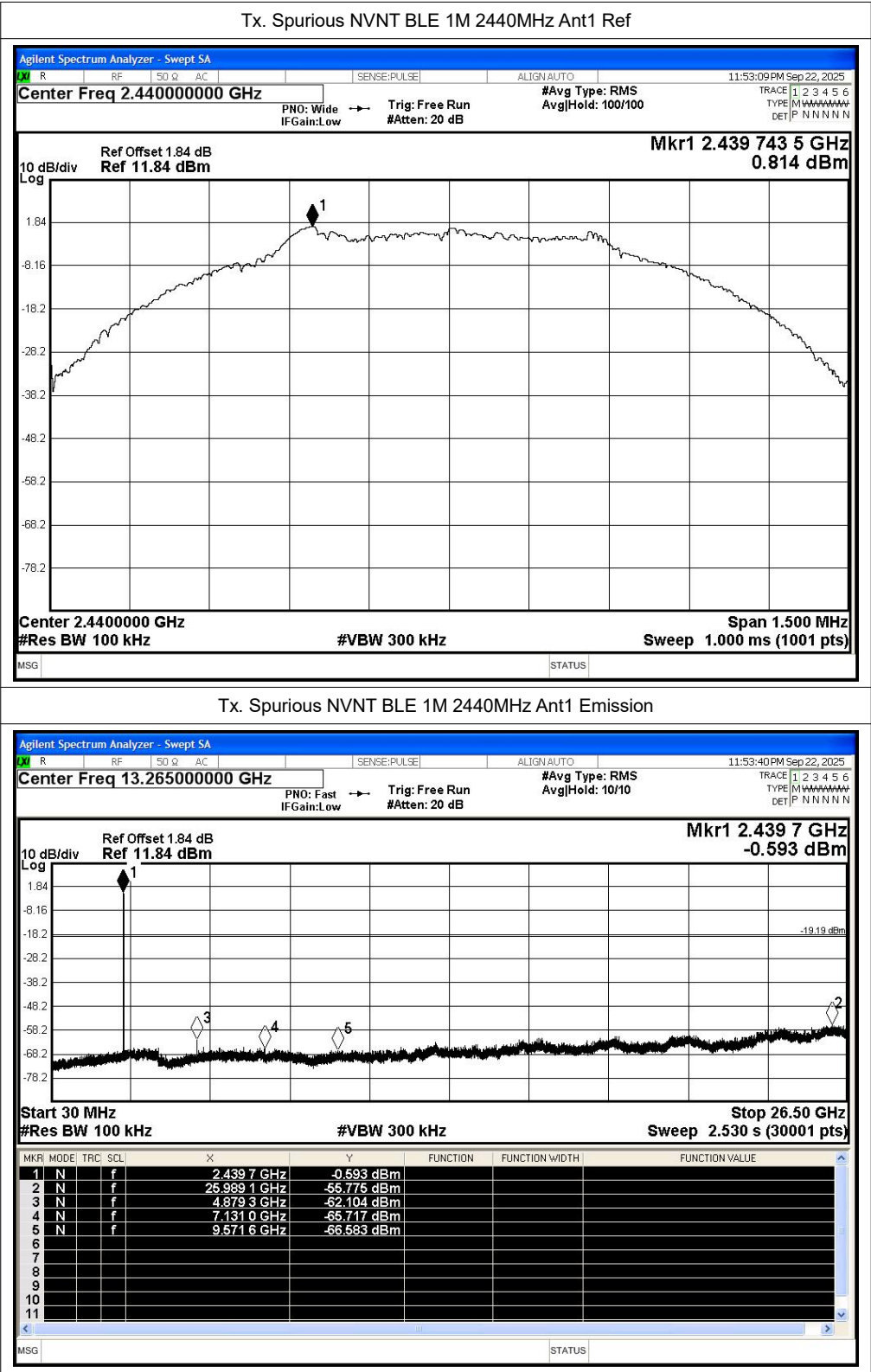




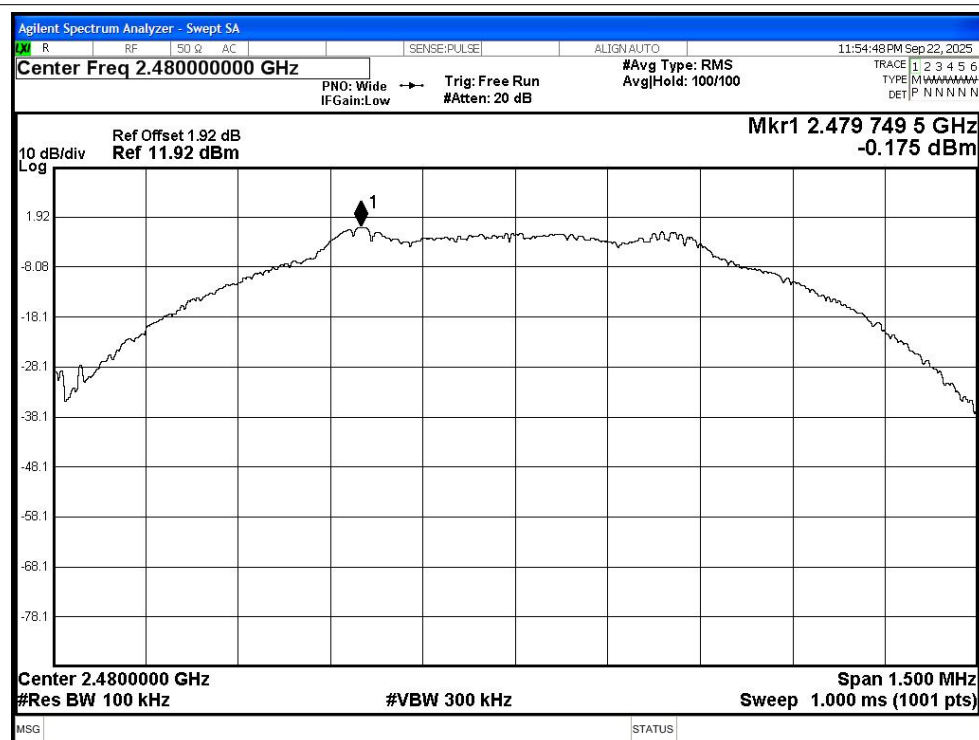
A.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-55.65	-20	Pass
NVNT	BLE 1M	2440	Ant1	-56.59	-20	Pass
NVNT	BLE 1M	2480	Ant1	-55.16	-20	Pass

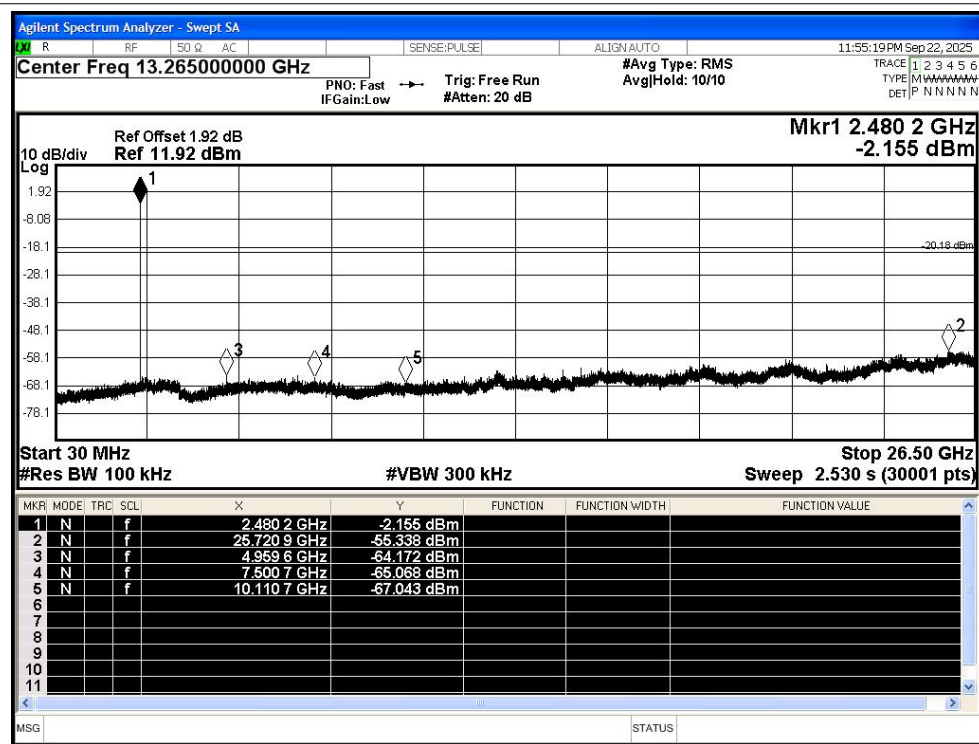




Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref

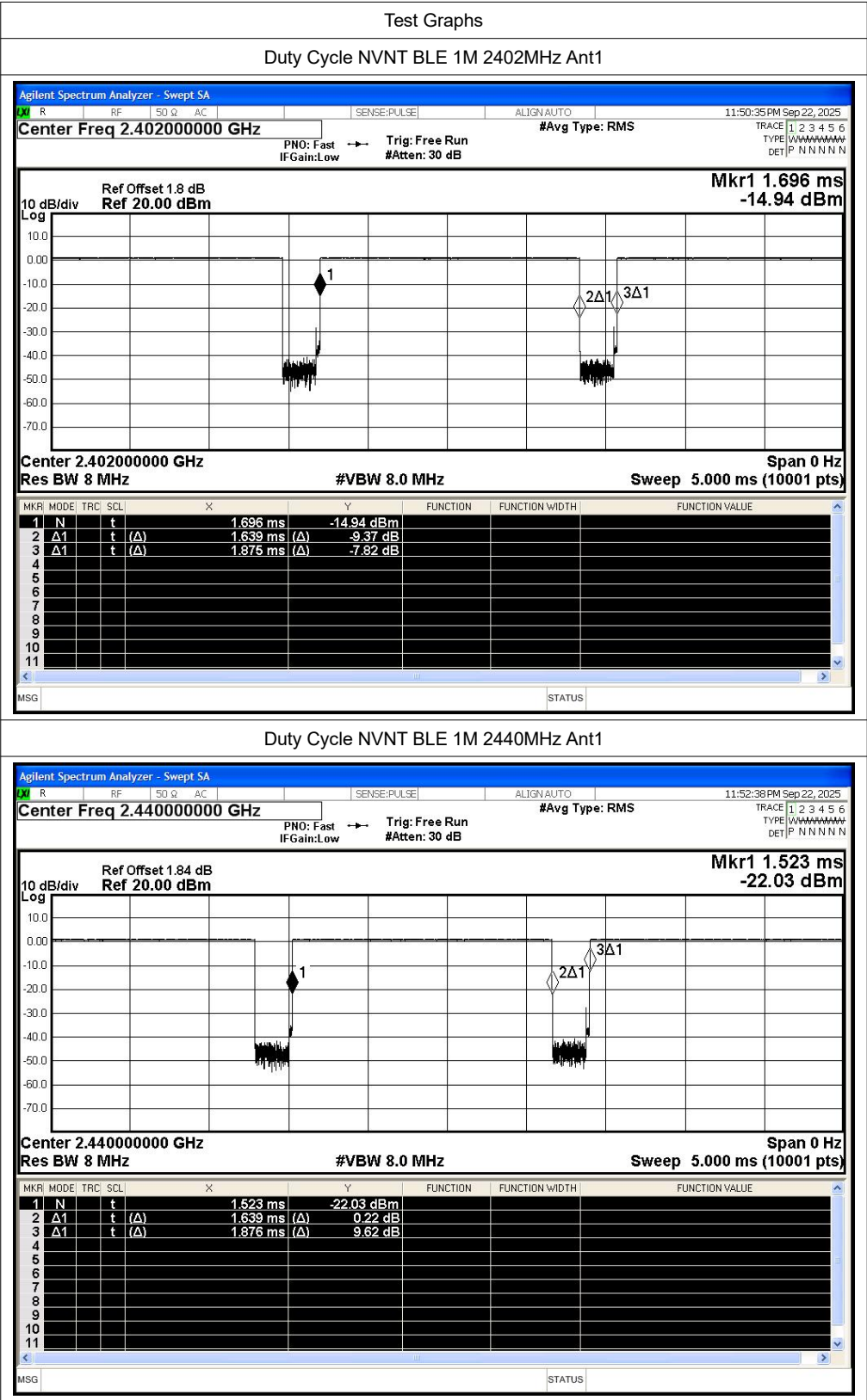


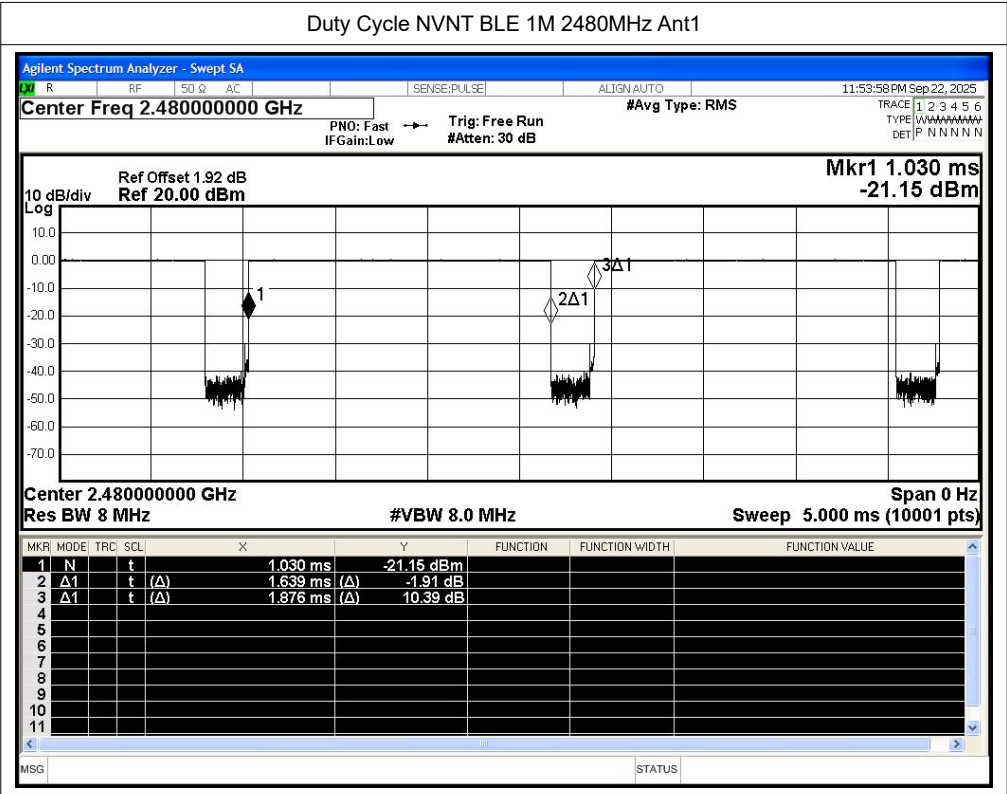
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



A.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	87.41	0.58	0.61
NVNT	BLE 1M	2440	Ant1	87.39	0.59	0.61
NVNT	BLE 1M	2480	Ant1	87.39	0.59	0.61



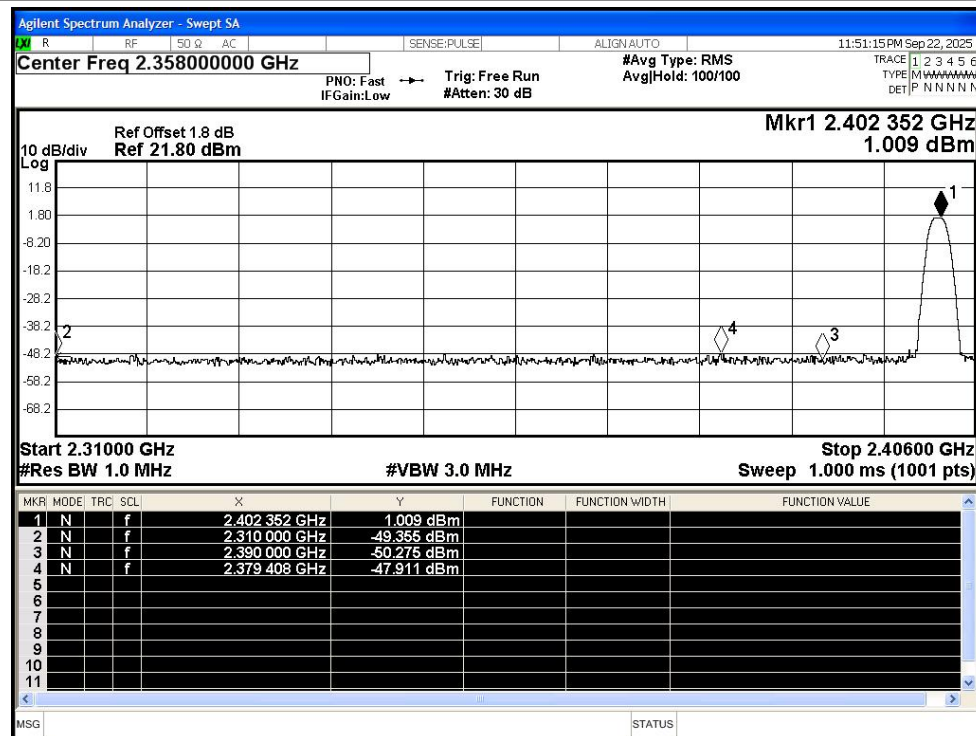


A.7 Restrict Band

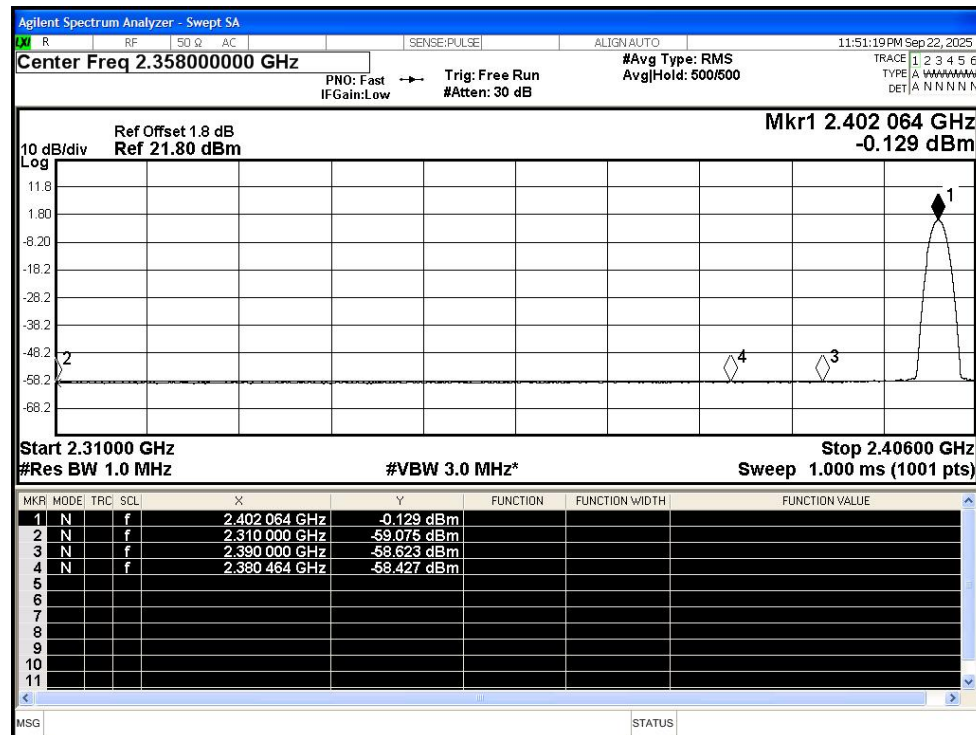
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-49.36	2	-	47.9	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-59.08	2	0.58	38.76	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2379.408	-47.91	2	-	49.35	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2380.464	-58.43	2	0.58	39.41	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-50.28	2	-	46.98	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-58.62	2	0.58	39.22	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-47.89	2	-	49.37	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-57.73	2	0.59	40.12	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2488.936	-44.19	2	-	53.07	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2484.04	-57.61	2	0.59	40.24	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-49.14	2	-	48.12	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-58.18	2	0.59	39.67	Average	54	Pass

Test Graphs

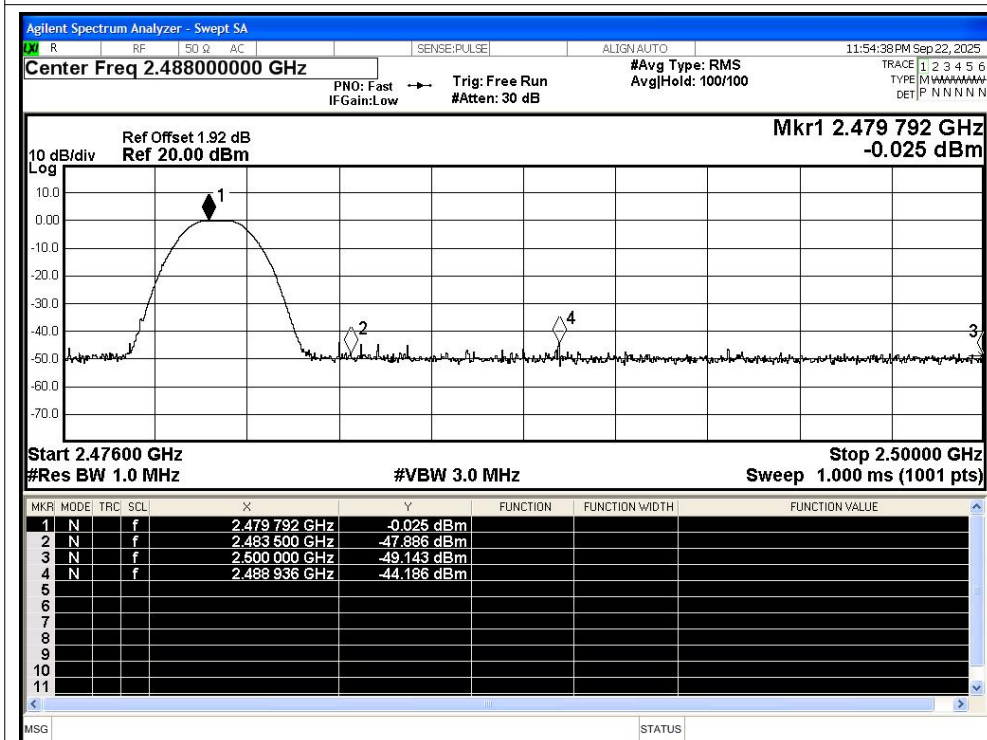
Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average

