

Appendix A for BT LE Test Data

Product Name: BT RCU

Test Model: RC1-ST4000G

Environmental Conditions

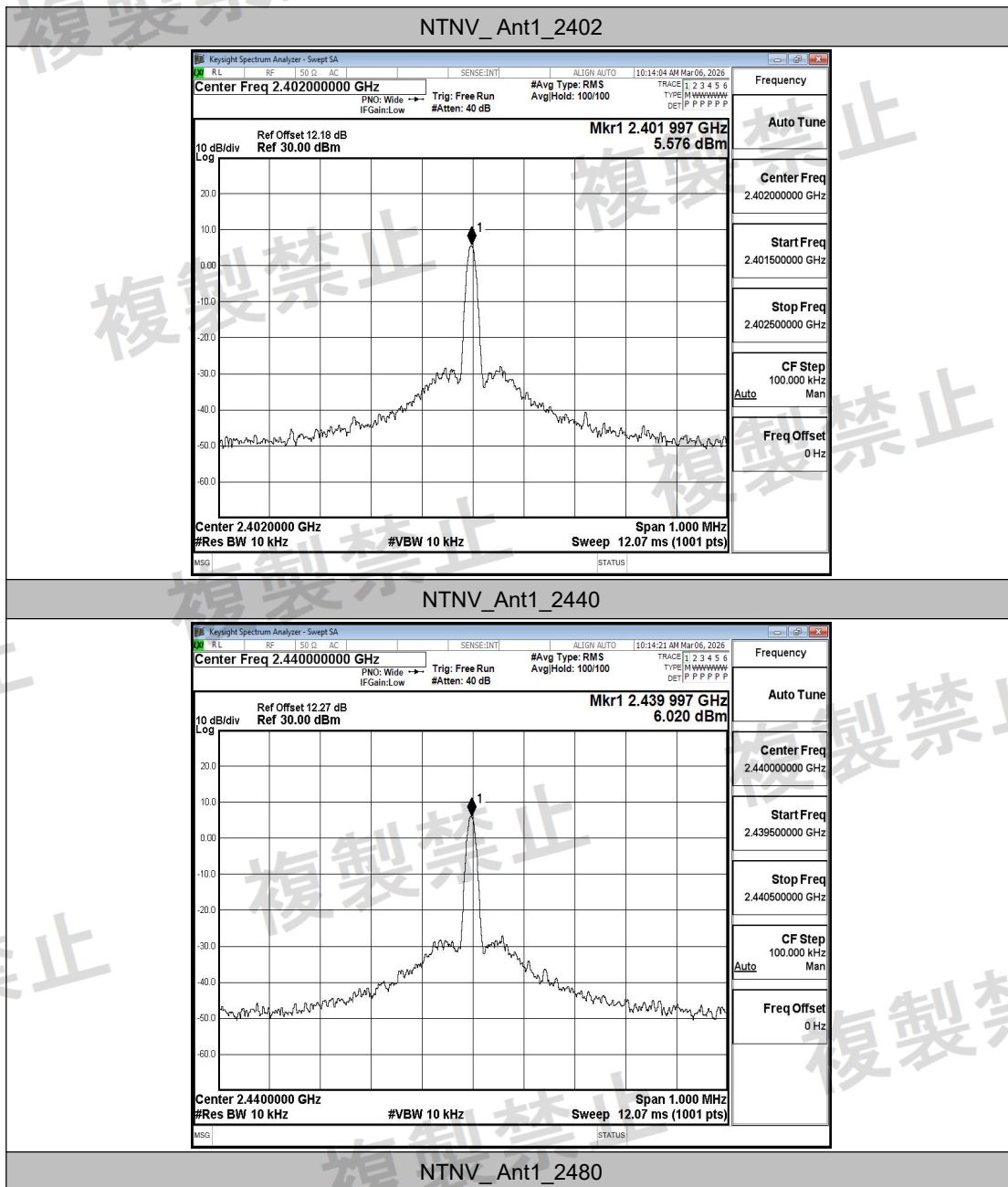
Temperature:	23.8°C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhao Xing Hai
Supervised by:	Fengliu Tang

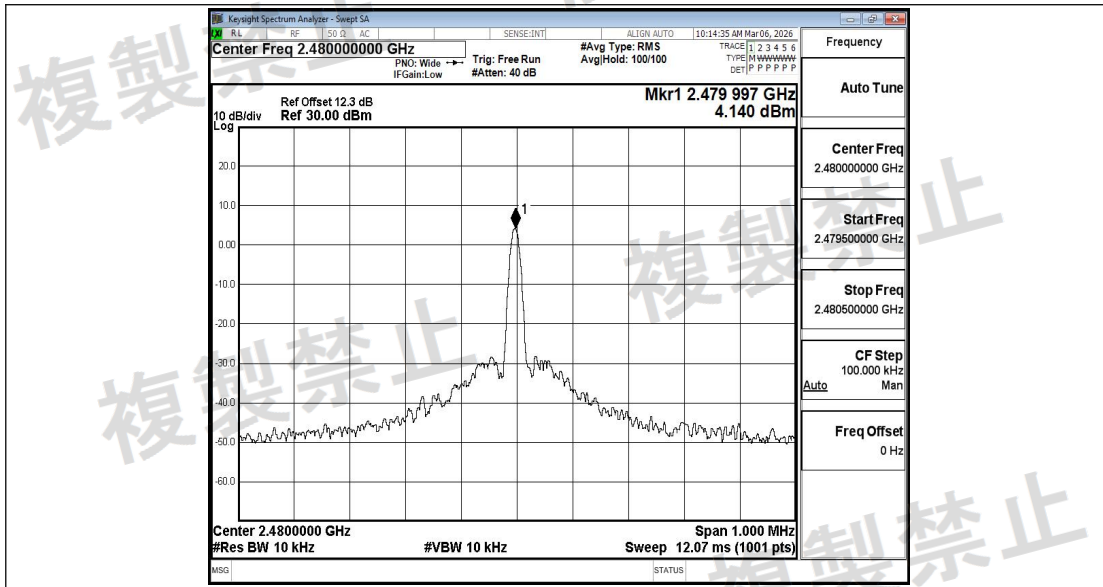
A.1 Frequency Error

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	Frequency Error	Ant1	2402	-1.24896	±50	PASS
			2440	-1.22951	±50	PASS
			2480	-1.20968	±50	PASS

Test Graphs





A.2 Antenna Power

Test Result

Antenna Power							
TestCondition	TestMode	Antenna	Frequency[MHz]	Result [dBm]	Result [mW]	Limit [mW]	Verdict
NTNV	BLE_1M	Ant1	2402	3.32	2.1478	≤10	PASS
			2440	3.14	2.0606	≤10	PASS
			2480	3.09	2.0370	≤10	PASS

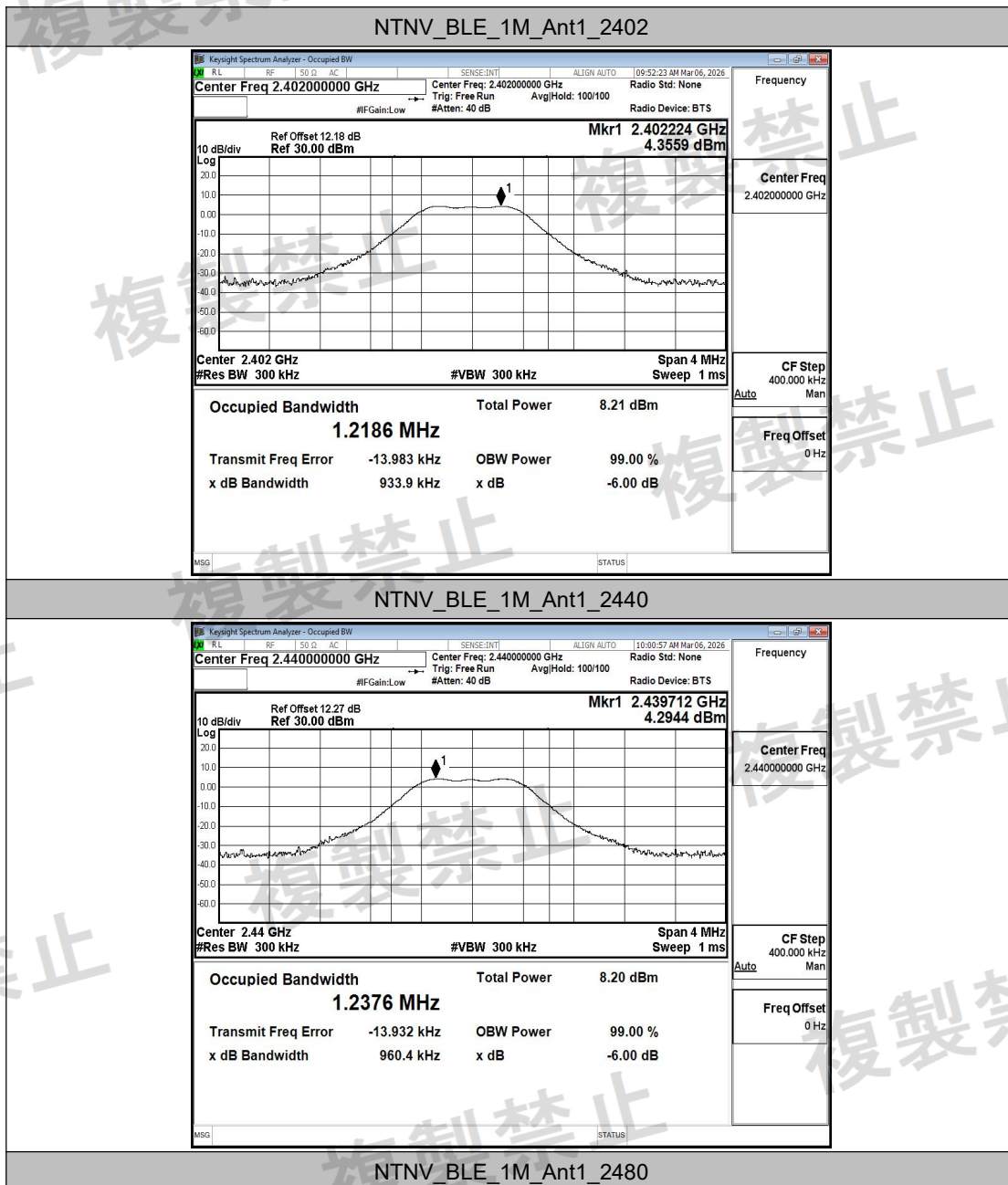
Tolerance								
Test Condition	Test Mode	Antenna	Frequency[MHz]	Power (mW)	Rated Power (mW)	Result (%)	Limit (%)	Verdict
NTNV	BLE_1M	Ant1	2402	2.1478	2.5	-14.09	+20	PASS
			2440	2.0606	2.5	-17.58	+20	PASS
			2480	2.0370	2.5	-18.52	+20	PASS

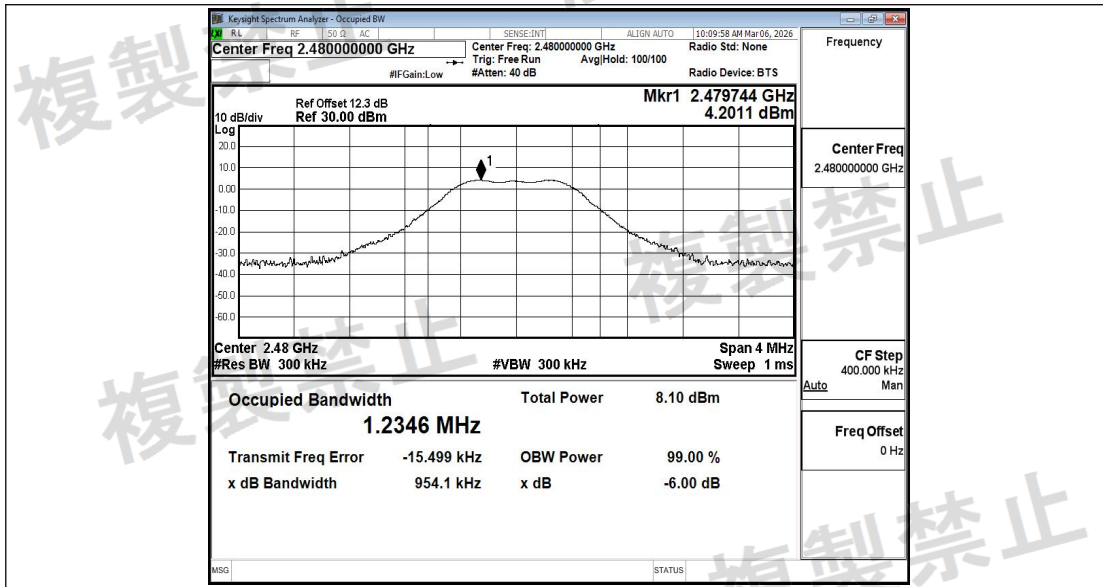
A.3 Occupied Bandwidth

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	1.219	≤26	PASS
			2440	1.238	≤26	PASS
			2480	1.235	≤26	PASS

Test Graphs



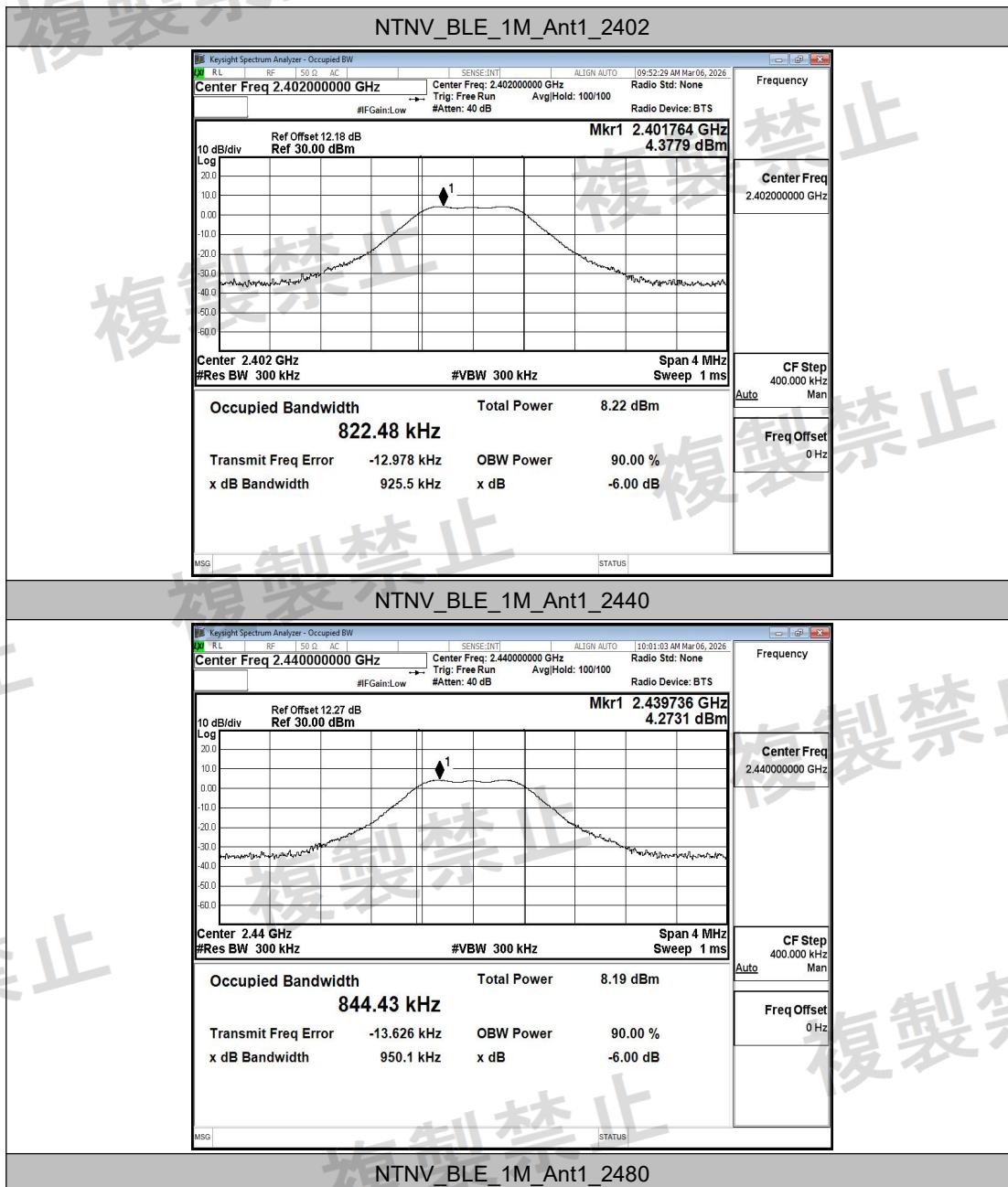


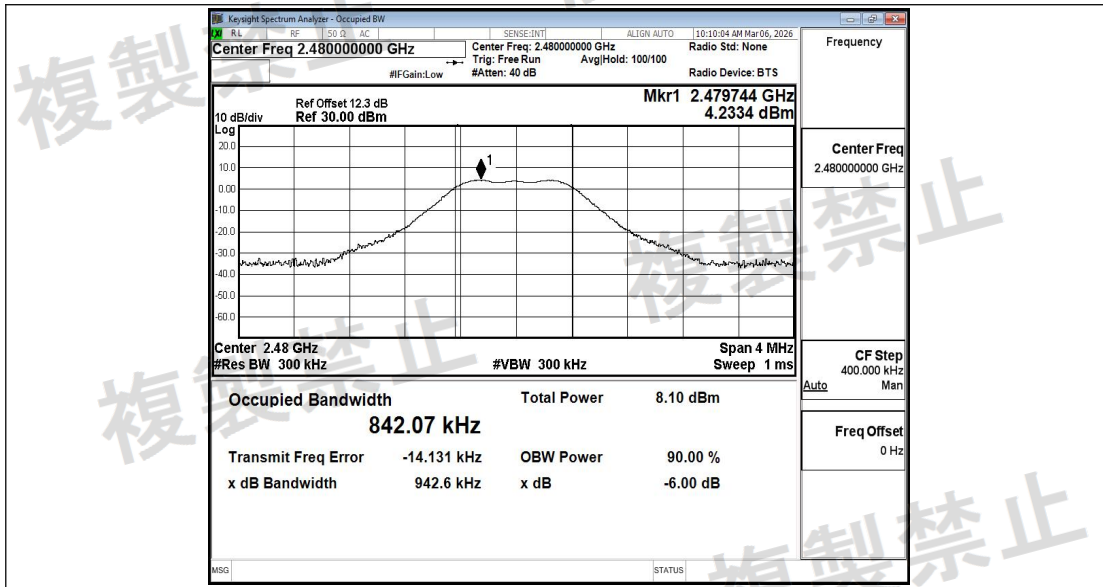
A.4 Spread Bandwidth

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	0.822	---	PASS
			2440	0.844	---	PASS
			2480	0.842	---	PASS

Test Graphs



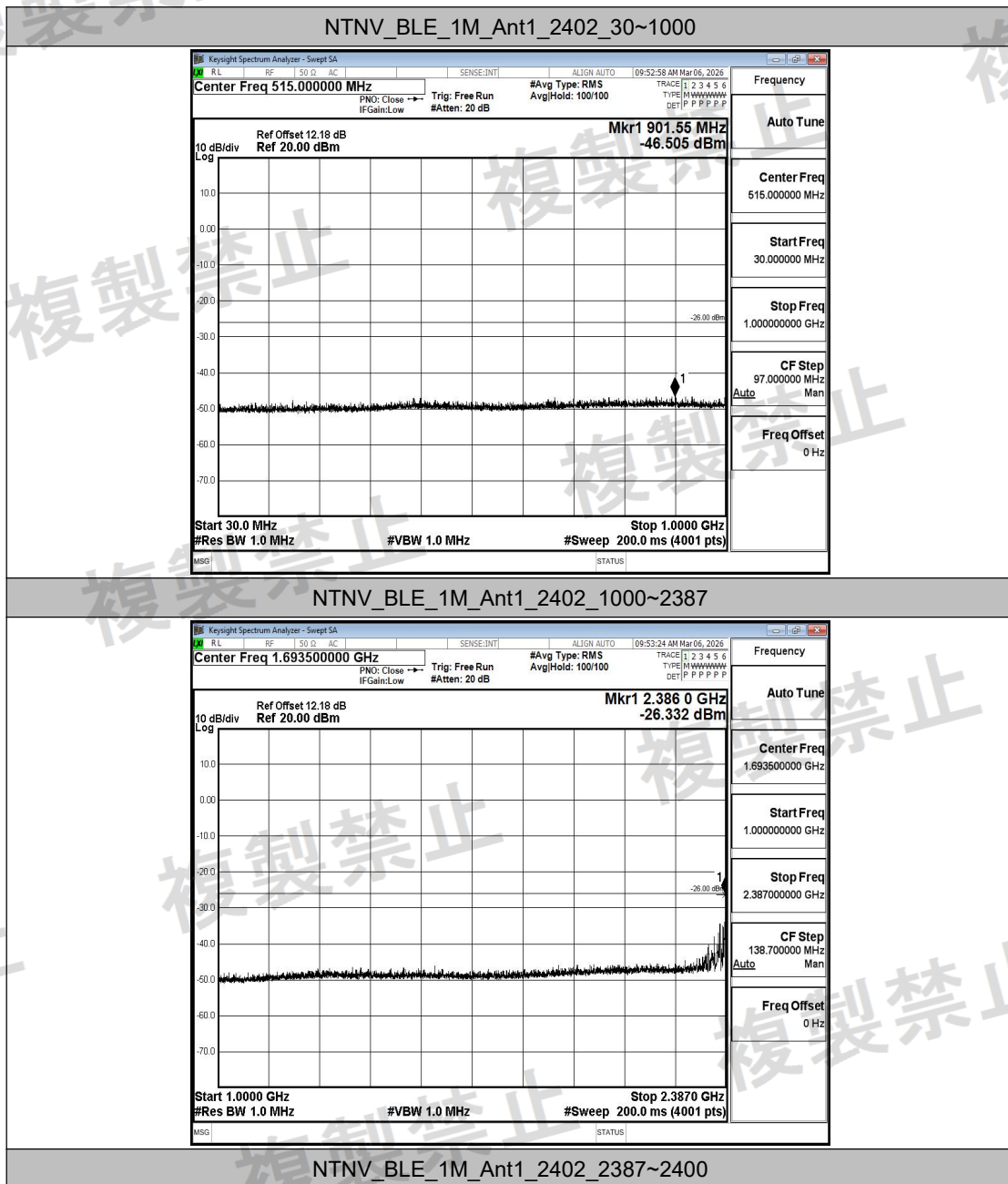


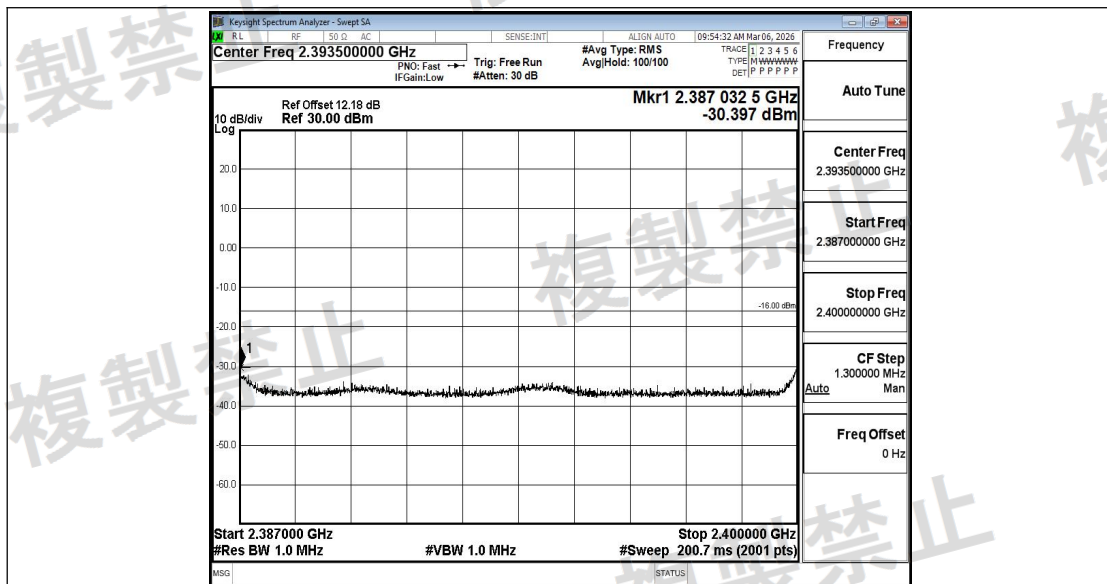
A.5 Spurious Emission of TX

Test Result

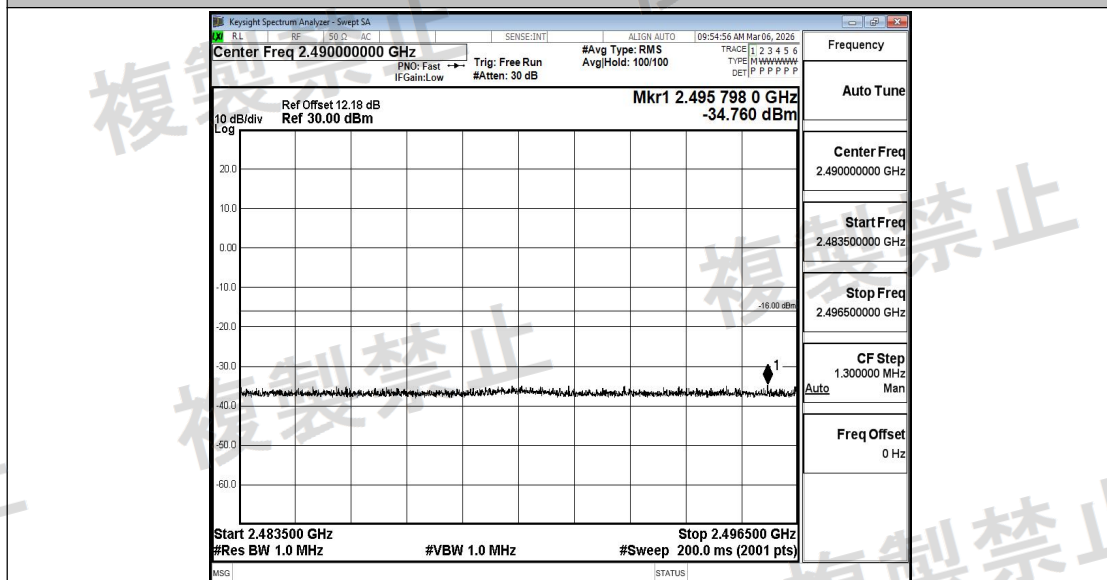
TestCondition	TestMode	Antenna	Freq(MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	901.55	-46.51	≤-26	0.02234	≤2.5	PASS
				1000~2387	2385.96	-26.33	≤-26	2.32809	≤2.5	PASS
				2387~2400	2387.03	-30.40	≤-16	0.91201	≤25	PASS
				2483.5~2496.5	2495.80	-34.76	≤-16	0.33420	≤25	PASS
				2496.5~13000	2580.00	-43.44	≤-26	0.04529	≤2.5	PASS
			2440	30~1000	399.57	-46.64	≤-26	0.02168	≤2.5	PASS
				1000~2387	2375.90	-39.90	≤-26	0.10233	≤2.5	PASS
				2387~2400	2391.64	-34.12	≤-16	0.38726	≤25	PASS
				2483.5~2496.5	2495.64	-33.63	≤-16	0.43351	≤25	PASS
				2496.5~13000	2504.38	-39.01	≤-26	0.12560	≤2.5	PASS
			2480	30~1000	889.18	-46.35	≤-26	0.02317	≤2.5	PASS
				1000~2387	2367.58	-44.45	≤-26	0.03589	≤2.5	PASS
				2387~2400	2389.55	-34.48	≤-16	0.35645	≤25	PASS
				2483.5~2496.5	2495.90	-26.50	≤-16	2.23872	≤25	PASS
				2496.5~13000	2496.50	-31.24	≤-26	0.75162	≤2.5	PASS

Test Graphs

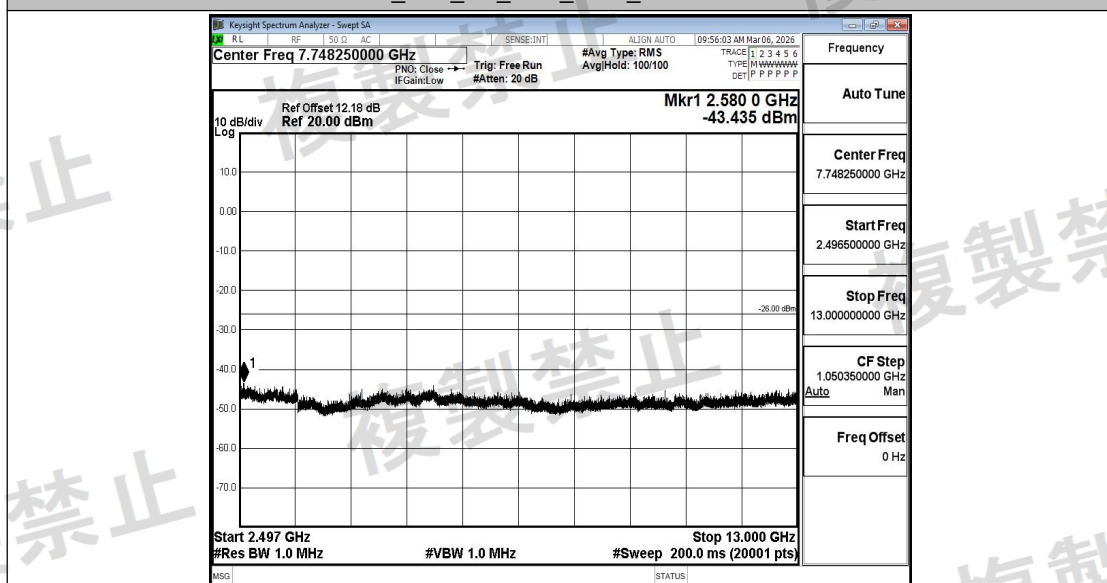


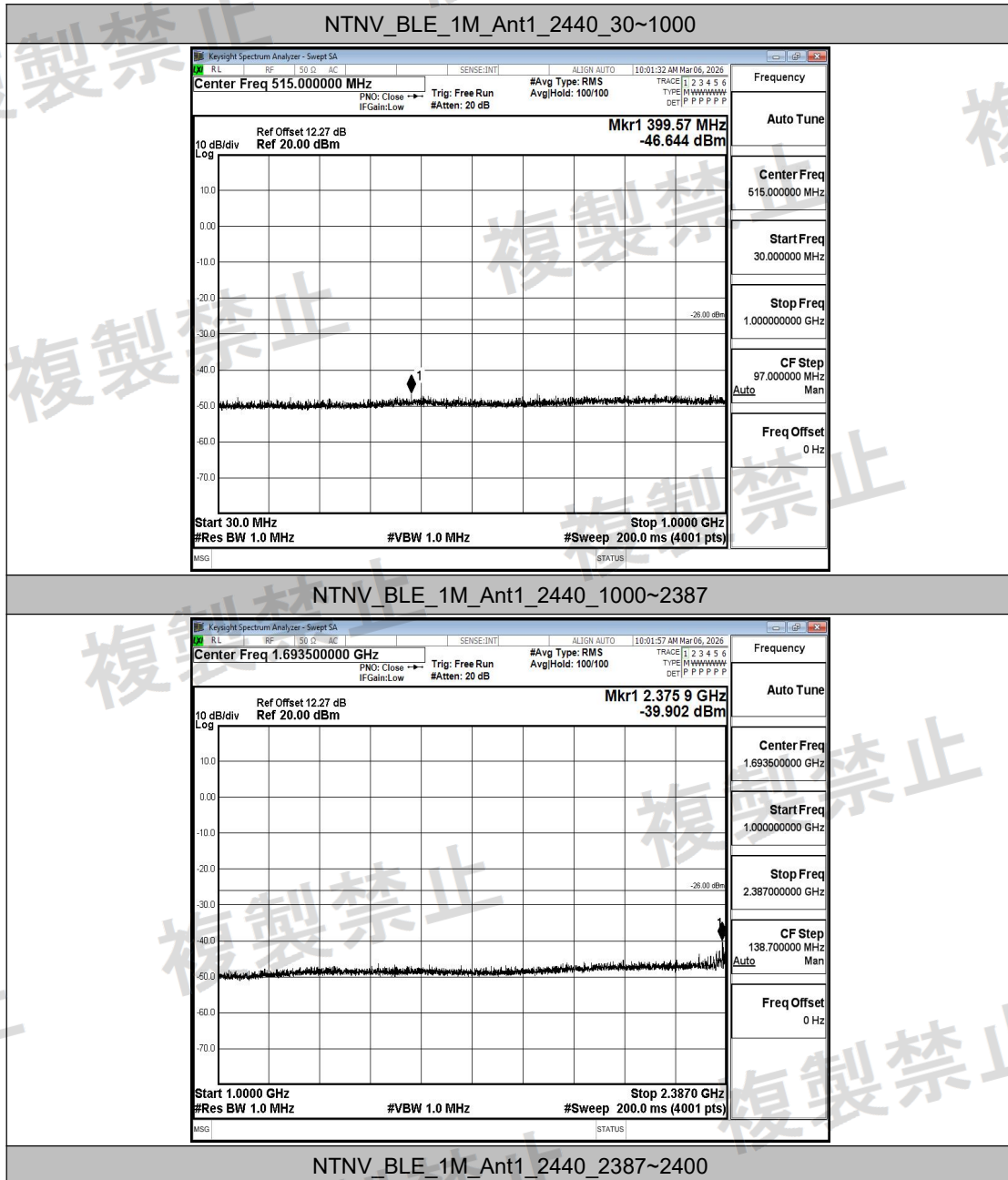


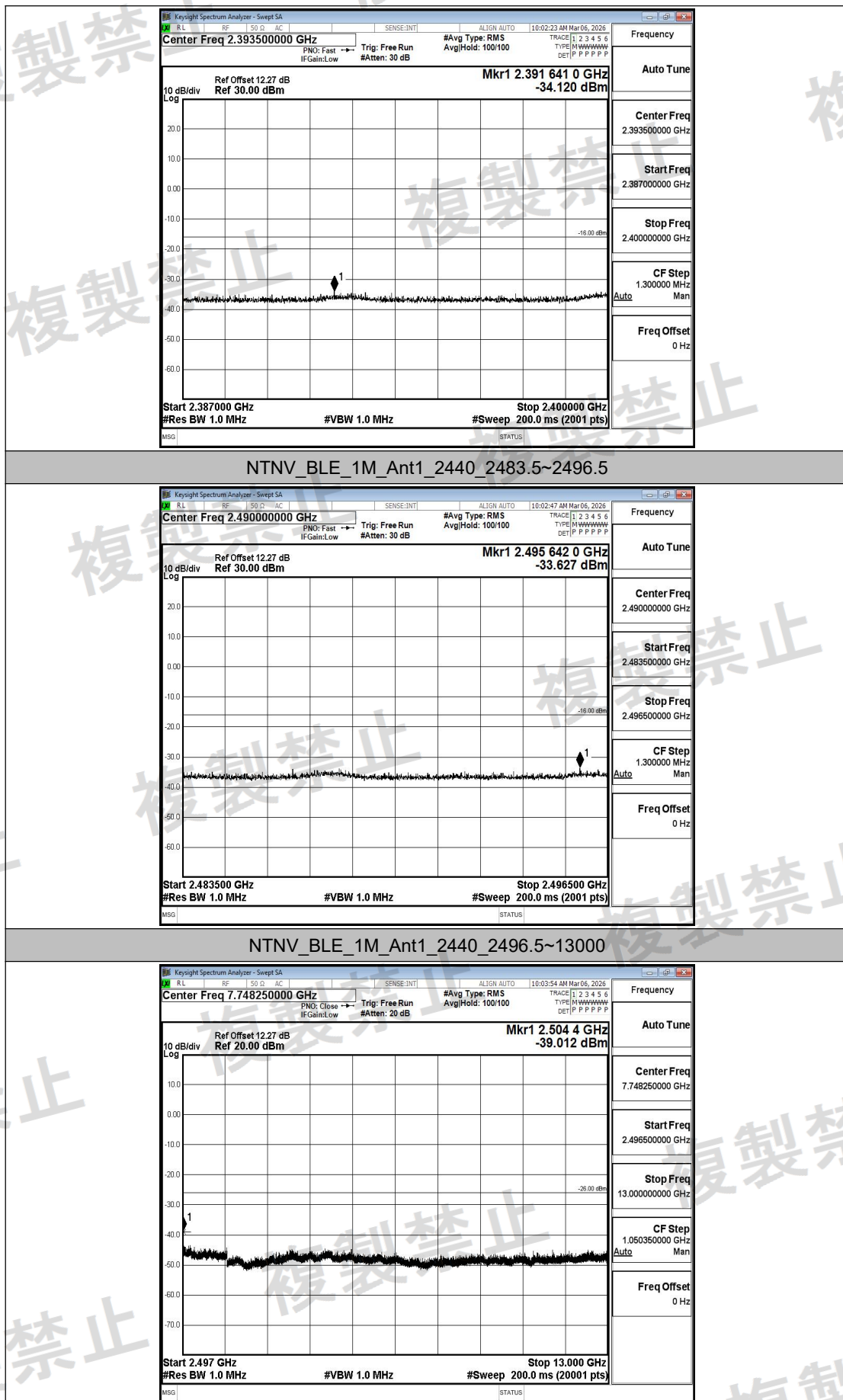
NTNV_BLE_1M_Ant1_2402_2483.5~2496.5

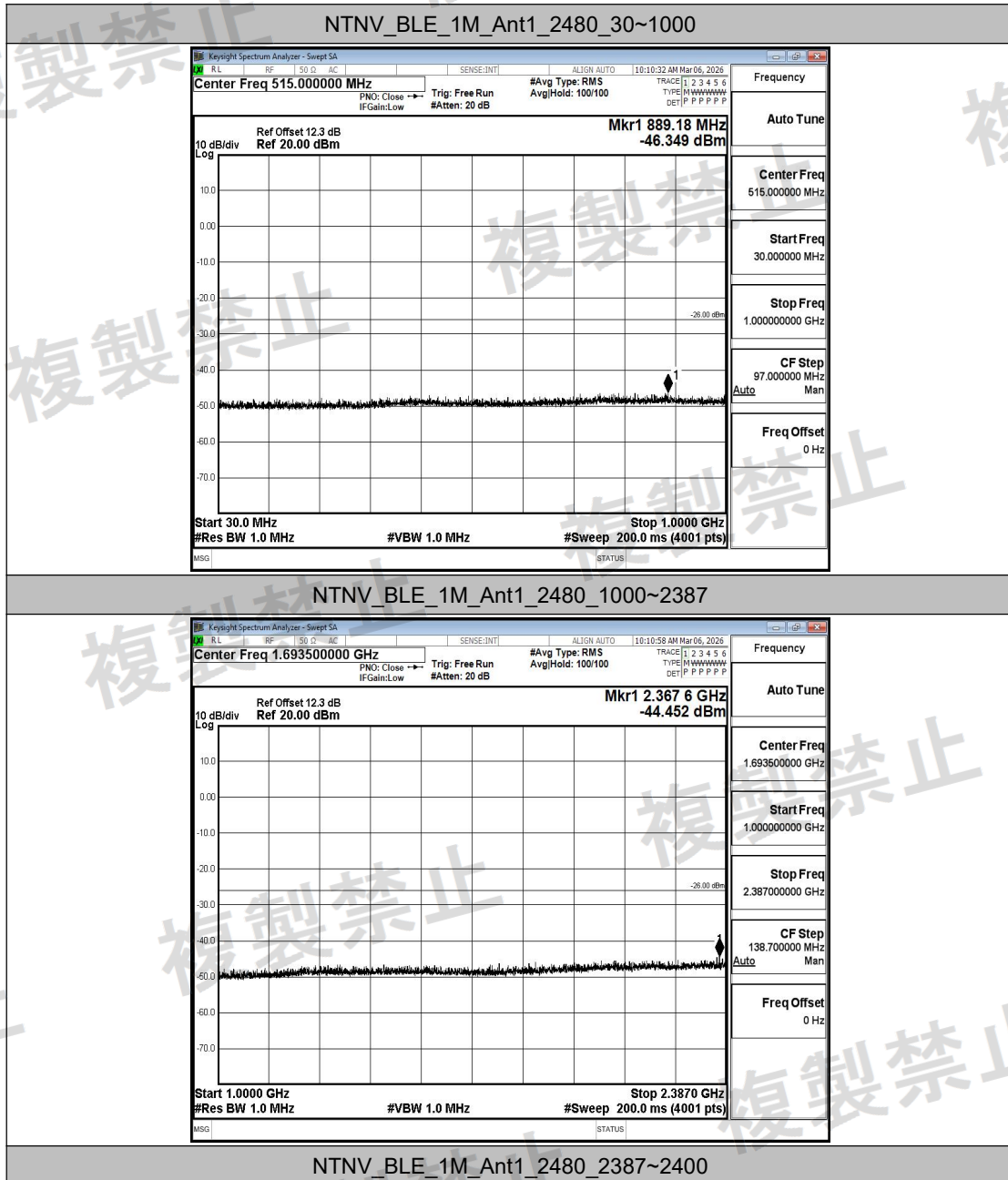


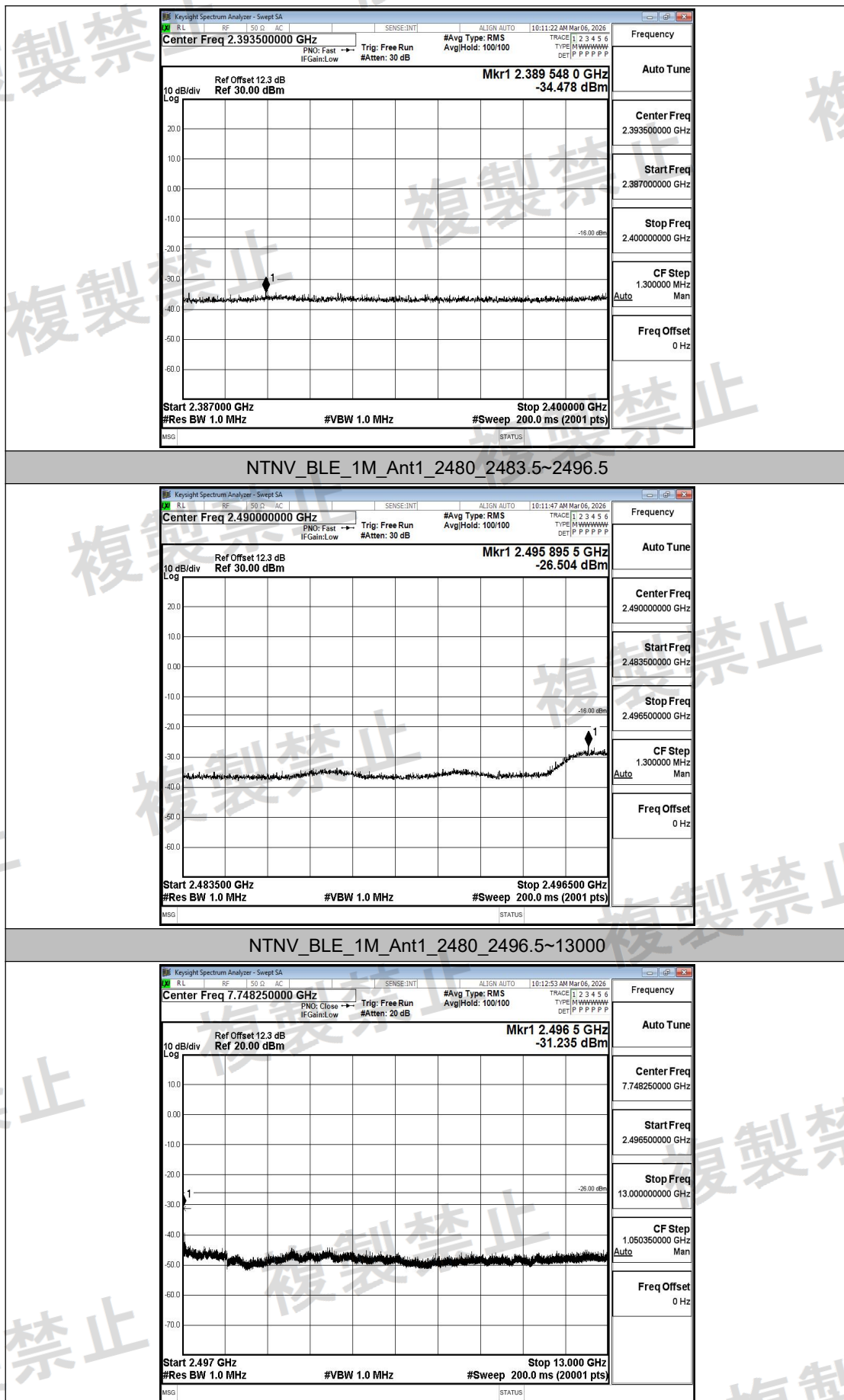
NTNV_BLE_1M_Ant1_2402_2496.5~13000











A.6 Spurious Emission of RX

Test Result

TestCondition	TestMode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	813.76	-78.73	≤-54	0.01340	≤4	PASS
				1000~12500	2683.60	-64.97	≤-47	0.31842	≤20	PASS
			2440	30~1000	394.72	-78.09	≤-54	0.01552	≤4	PASS
				1000~12500	2711.20	-65.37	≤-47	0.29040	≤20	PASS
			2480	30~1000	793.39	-77.50	≤-54	0.01778	≤4	PASS
				1000~12500	2578.38	-65.40	≤-47	0.28840	≤20	PASS

Test Graphs

