

Appendix A for BT LE Test Data

Product Name: IPL Hair Removal Device

Test Model: UI20S

Environmental Conditions

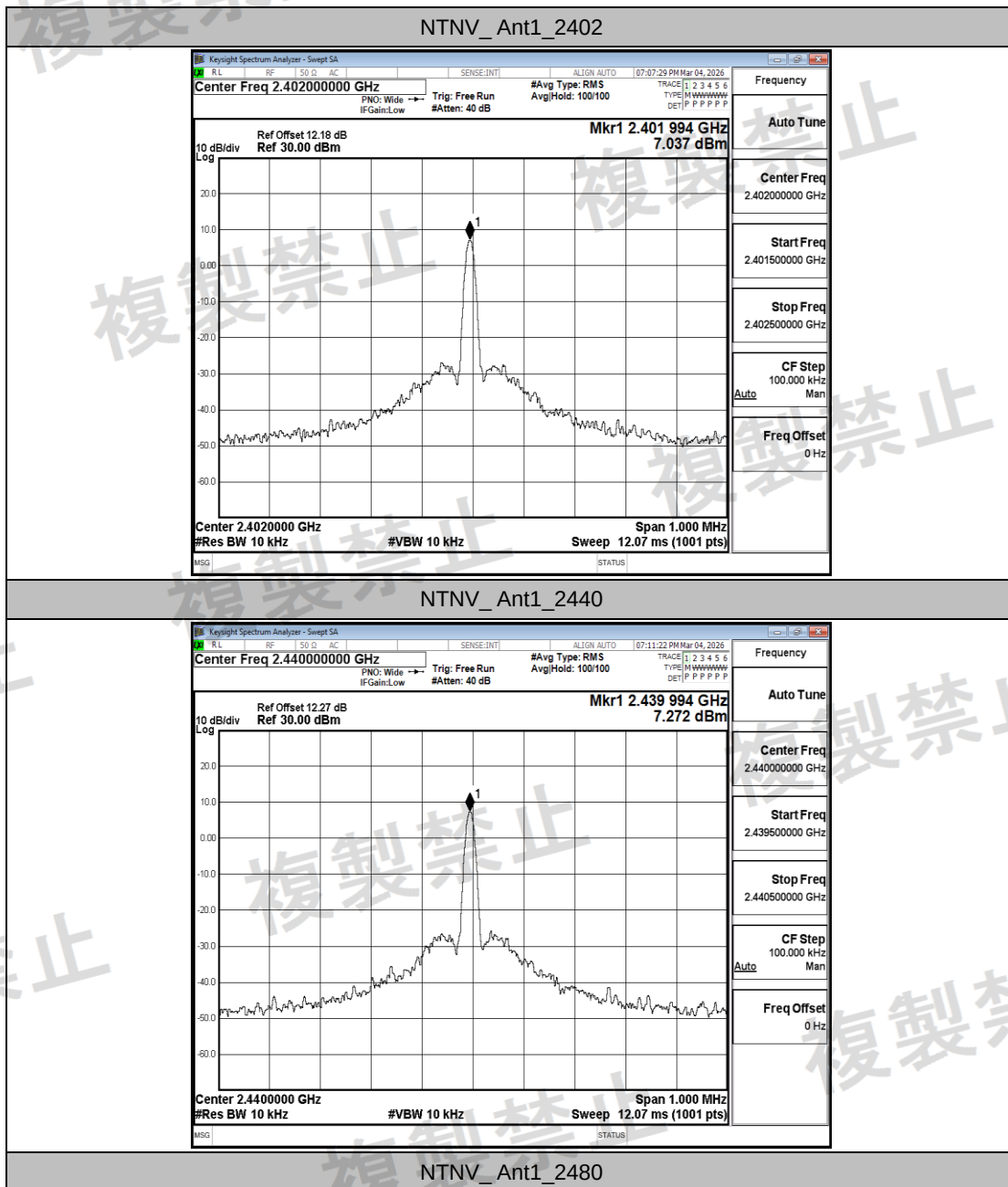
Temperature:	23.8°C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhao Xing Hai
Supervised by:	Fengliu Tang

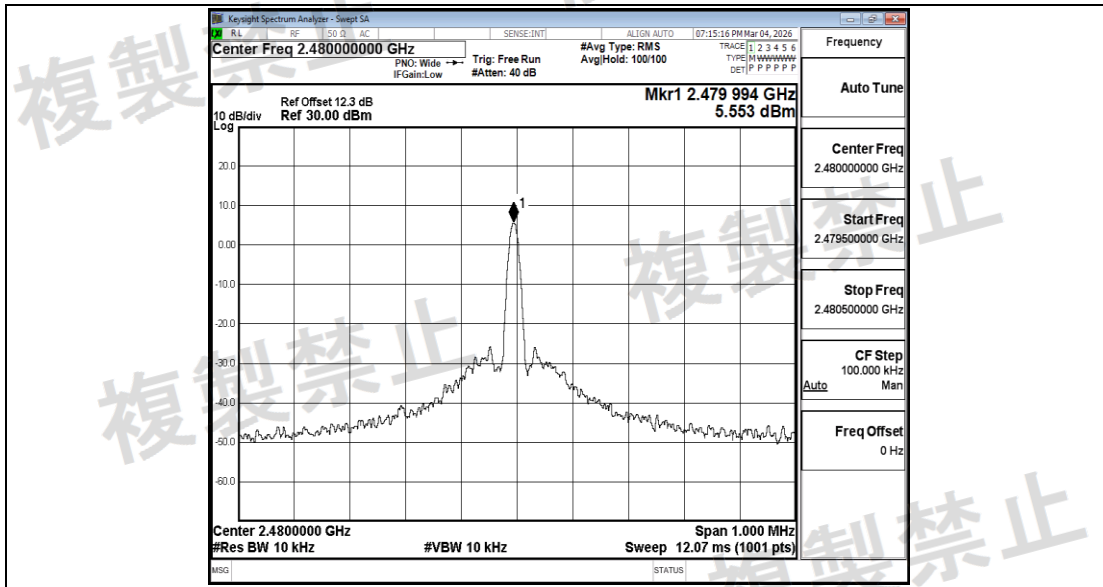
A.1 Frequency Error

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	Frequency Error	Ant1	2402	-2.49792	±50	PASS
			2440	-2.45902	±50	PASS
			2480	-2.41936	±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	Ant1	2402	0.14	1.0328	≤10	PASS
			2440	0.19	1.0447	≤10	PASS
			2480	0.23	1.0544	≤10	PASS

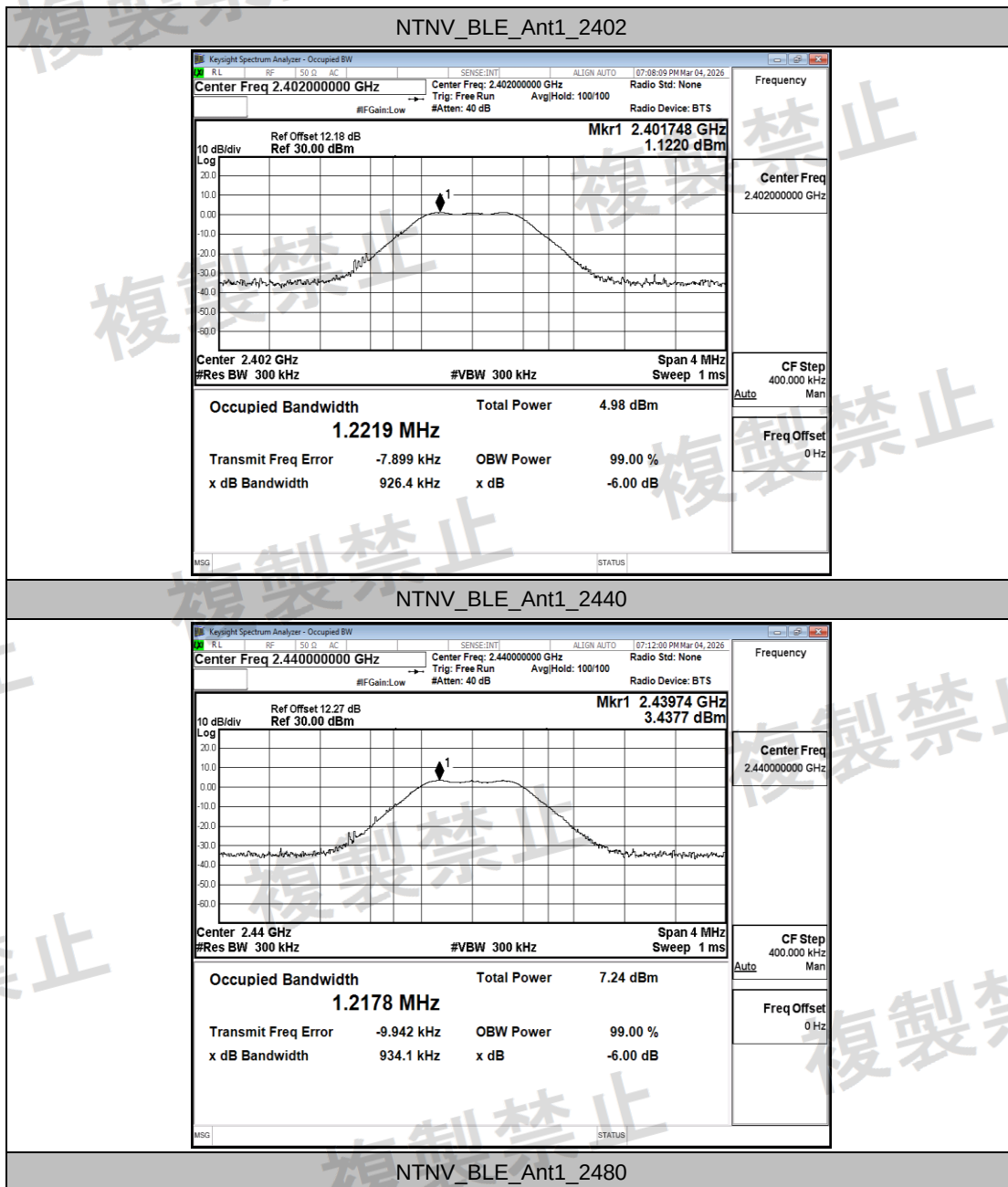
Tolerance								
Test Condition	Test Mode	Antenna	Frequency[MHz]	Power (mW)	Rated Power (mW)	Result (%)	Limit (%)	Verdict
NTNV	BLE	Ant1	2402	1.0328	1	3.28	+20	PASS
			2440	1.0447	1	4.47	+20	PASS
			2480	1.0544	1	5.44	+20	PASS

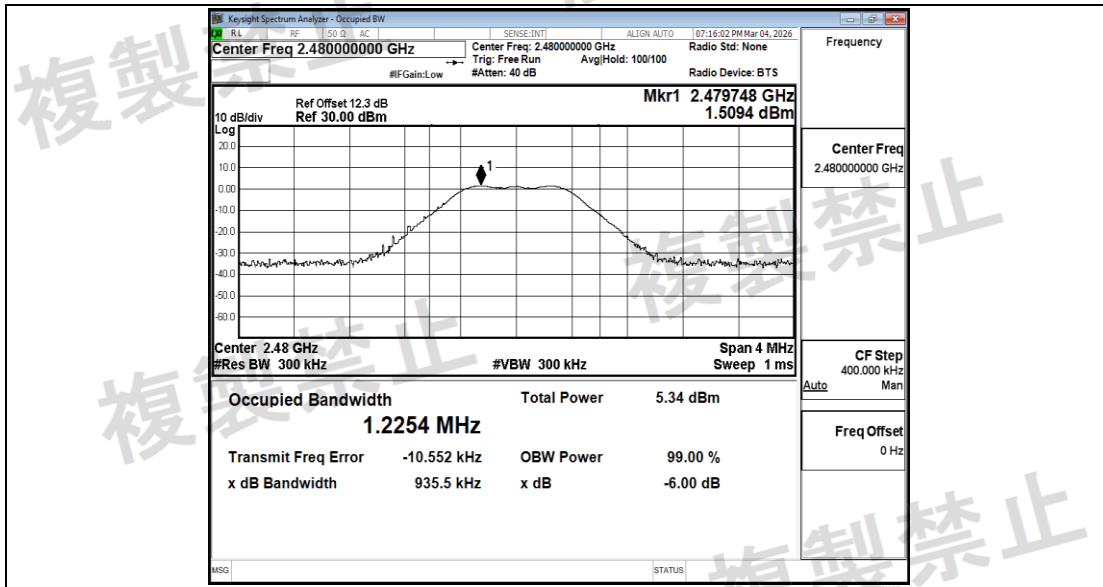
A.3 Occupied Bandwidth

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE	Ant1	2402	1.222	≤26	PASS
			2440	1.218	≤26	PASS
			2480	1.225	≤26	PASS

Test Graphs



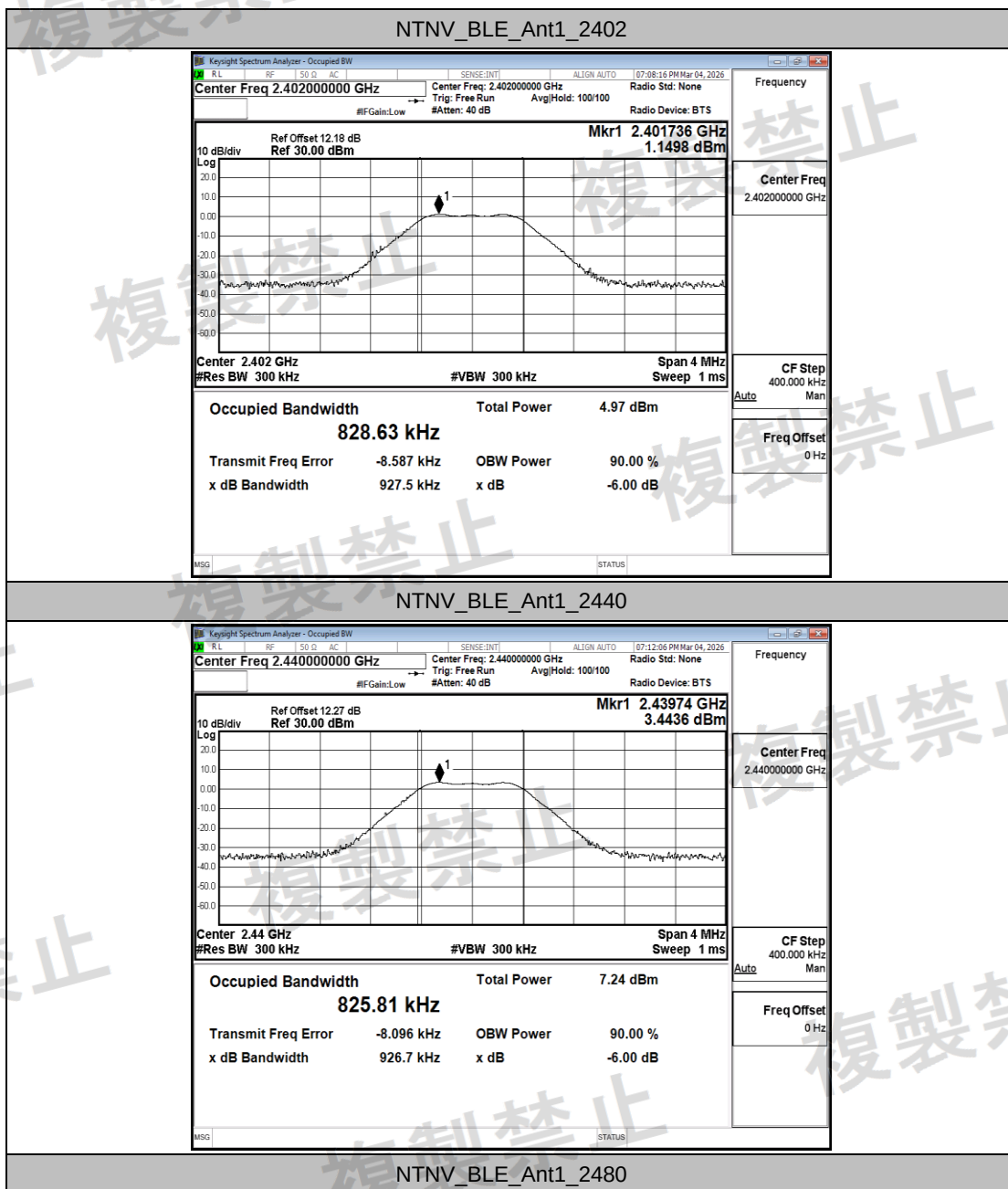


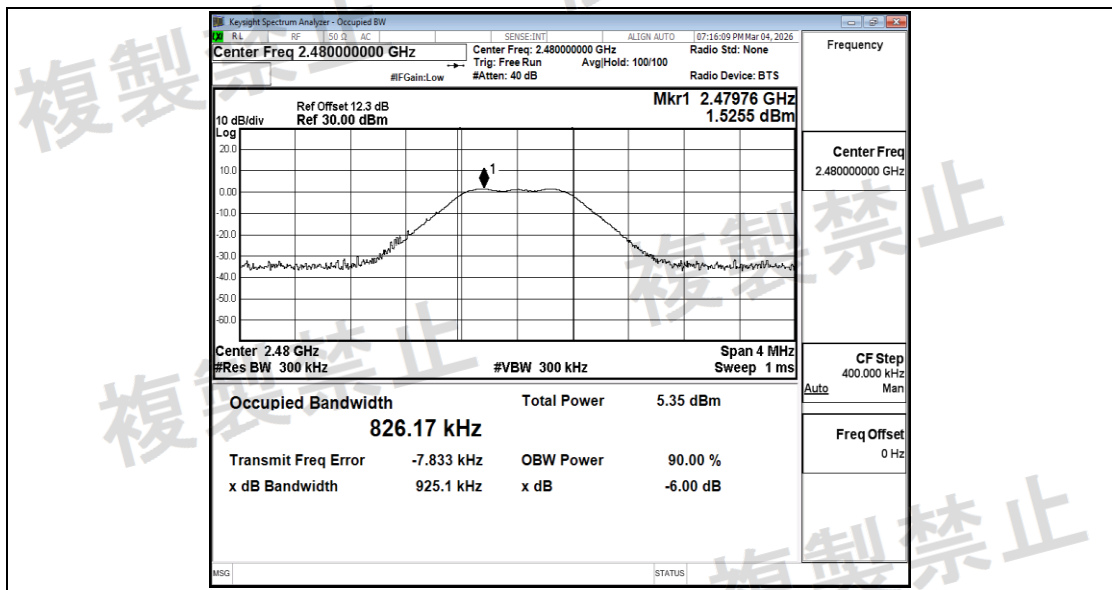
A.4 Spread Bandwidth

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE	Ant1	2402	0.829	---	PASS
			2440	0.826	---	PASS
			2480	0.826	---	PASS

Test Graphs



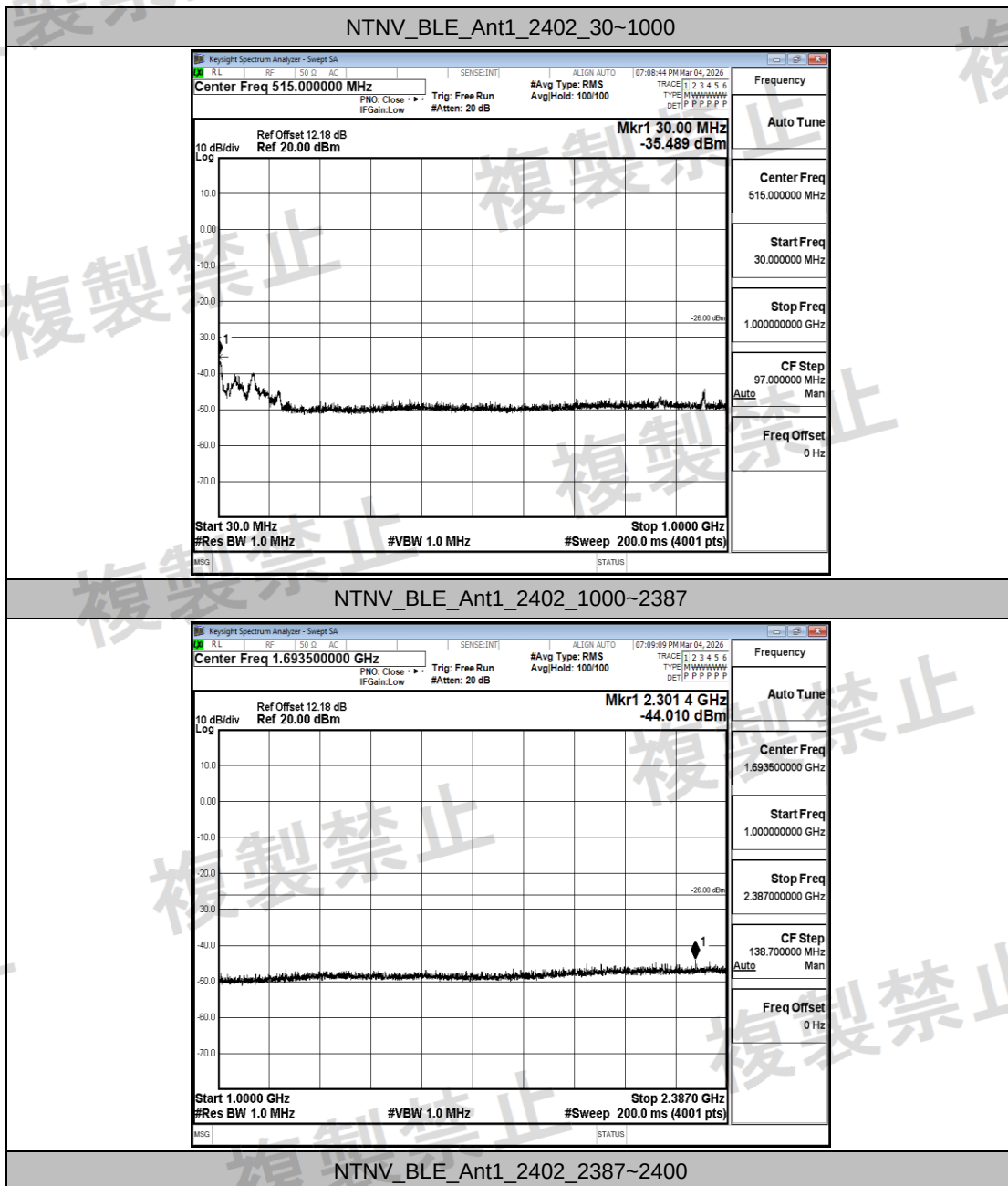


A.5 Spurious Emission of TX

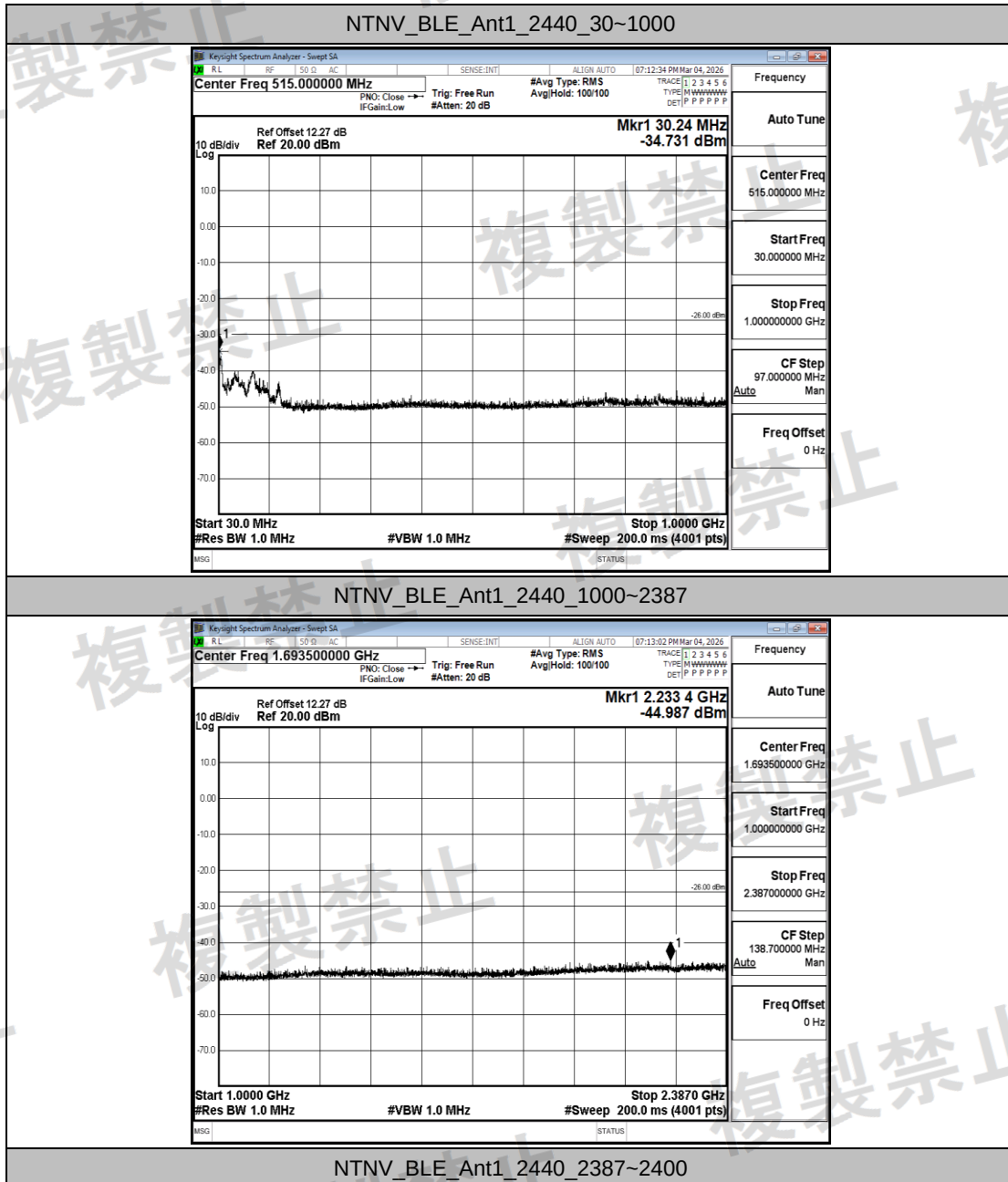
Test Result

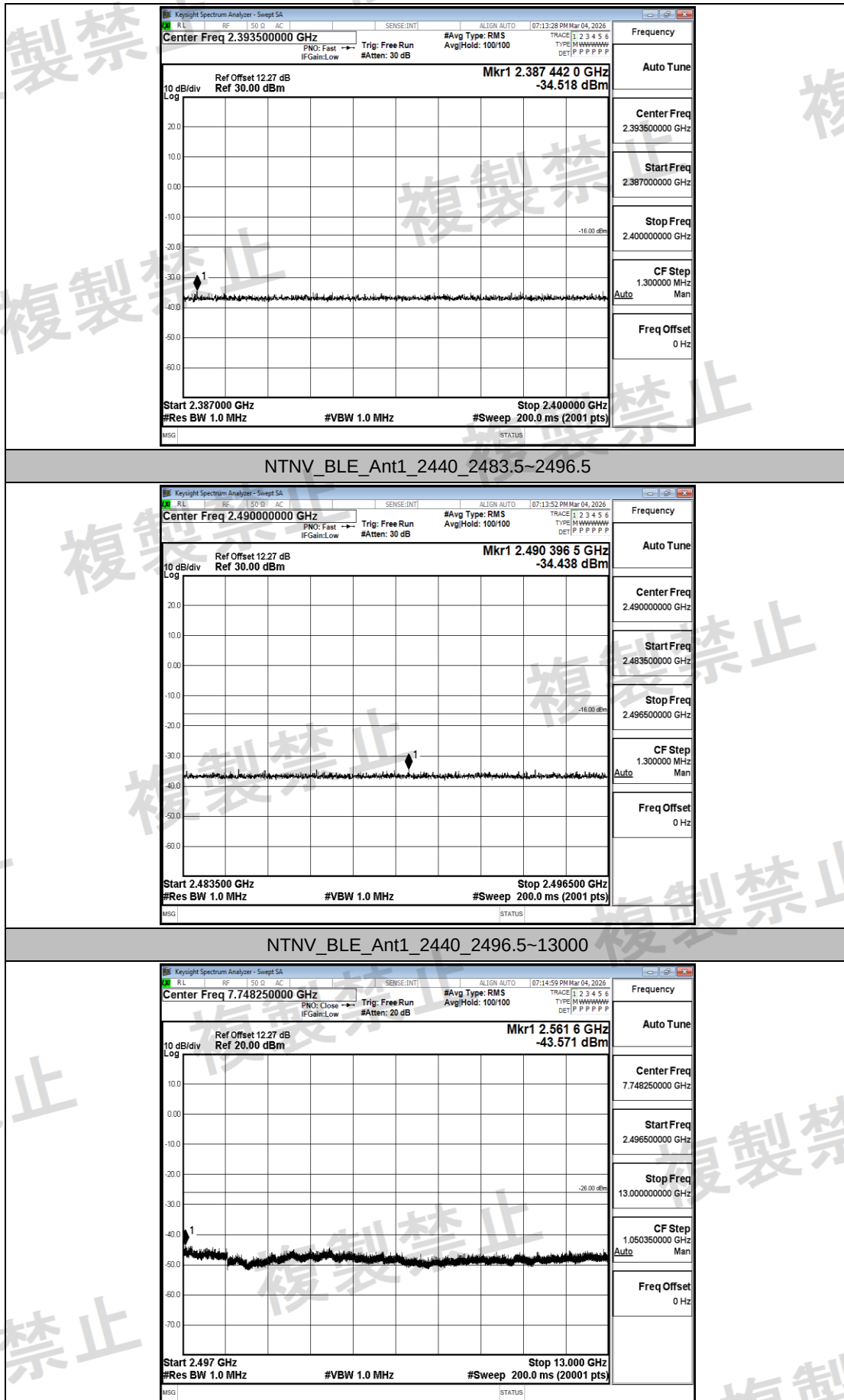
TestCondition	TestMode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE	Ant1	2402	30~1000	30.00	-35.49	≤-26	0.28249	≤2.5	PASS
				1000~2387	2301.35	-44.01	≤-26	0.03972	≤2.5	PASS
				2387~2400	2399.98	-32.19	≤-16	0.60395	≤25	PASS
				2483.5~2496.5	2494.47	-34.55	≤-16	0.35075	≤25	PASS
				2496.5~13000	2652.48	-43.90	≤-26	0.04074	≤2.5	PASS
			2440	30~1000	30.24	-34.73	≤-26	0.33651	≤2.5	PASS
				1000~2387	2233.39	-44.99	≤-26	0.03170	≤2.5	PASS
				2387~2400	2387.44	-34.52	≤-16	0.35318	≤25	PASS
				2483.5~2496.5	2490.40	-34.44	≤-16	0.35975	≤25	PASS
				2496.5~13000	2561.62	-43.57	≤-26	0.04395	≤2.5	PASS
			2480	30~1000	30.73	-34.99	≤-26	0.31696	≤2.5	PASS
				1000~2387	2292.68	-44.80	≤-26	0.03311	≤2.5	PASS
				2387~2400	2398.17	-34.50	≤-16	0.35481	≤25	PASS
				2483.5~2496.5	2488.28	-34.05	≤-16	0.39355	≤25	PASS
				2496.5~13000	2546.39	-43.25	≤-26	0.04732	≤2.5	PASS

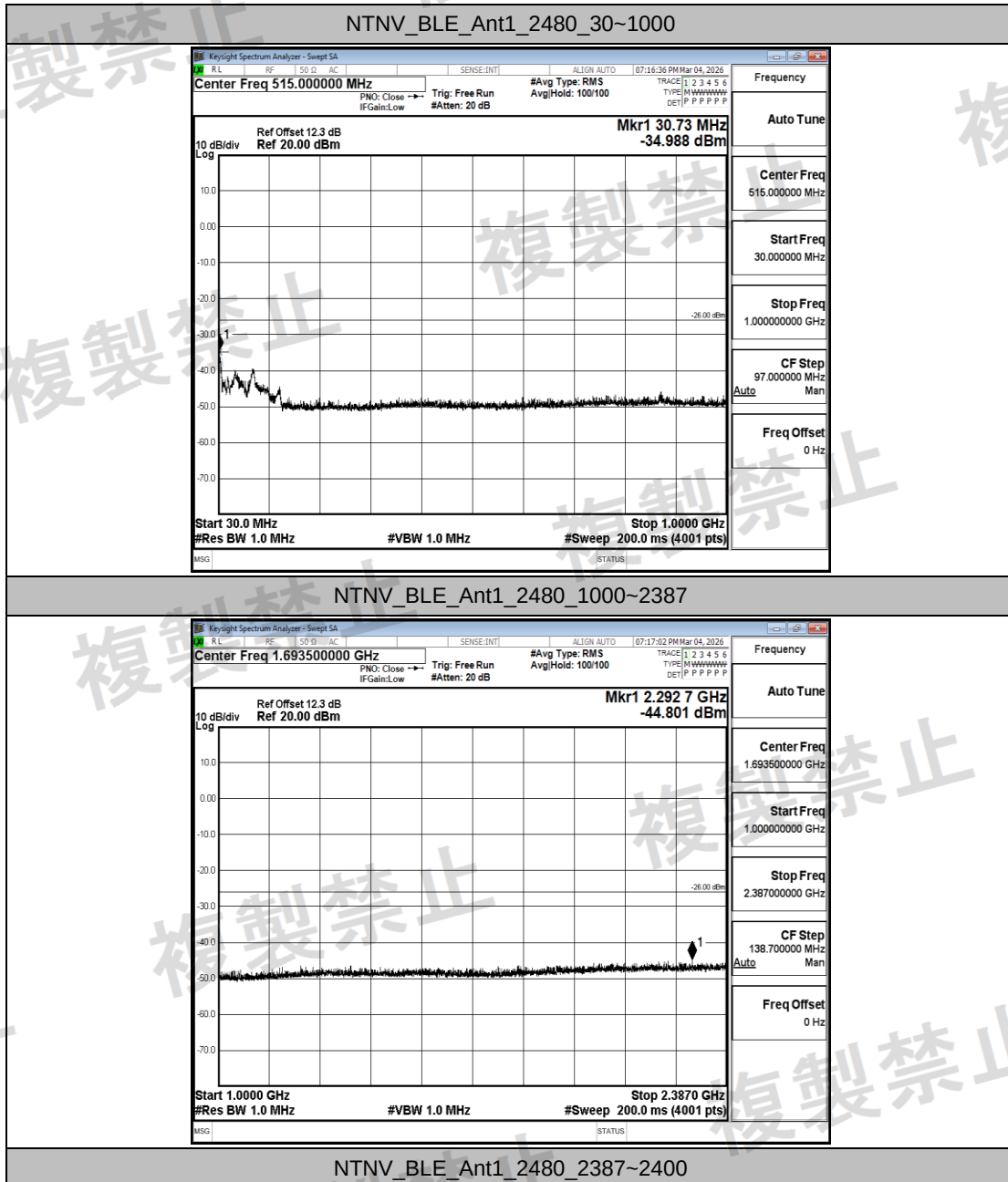
Test Graphs

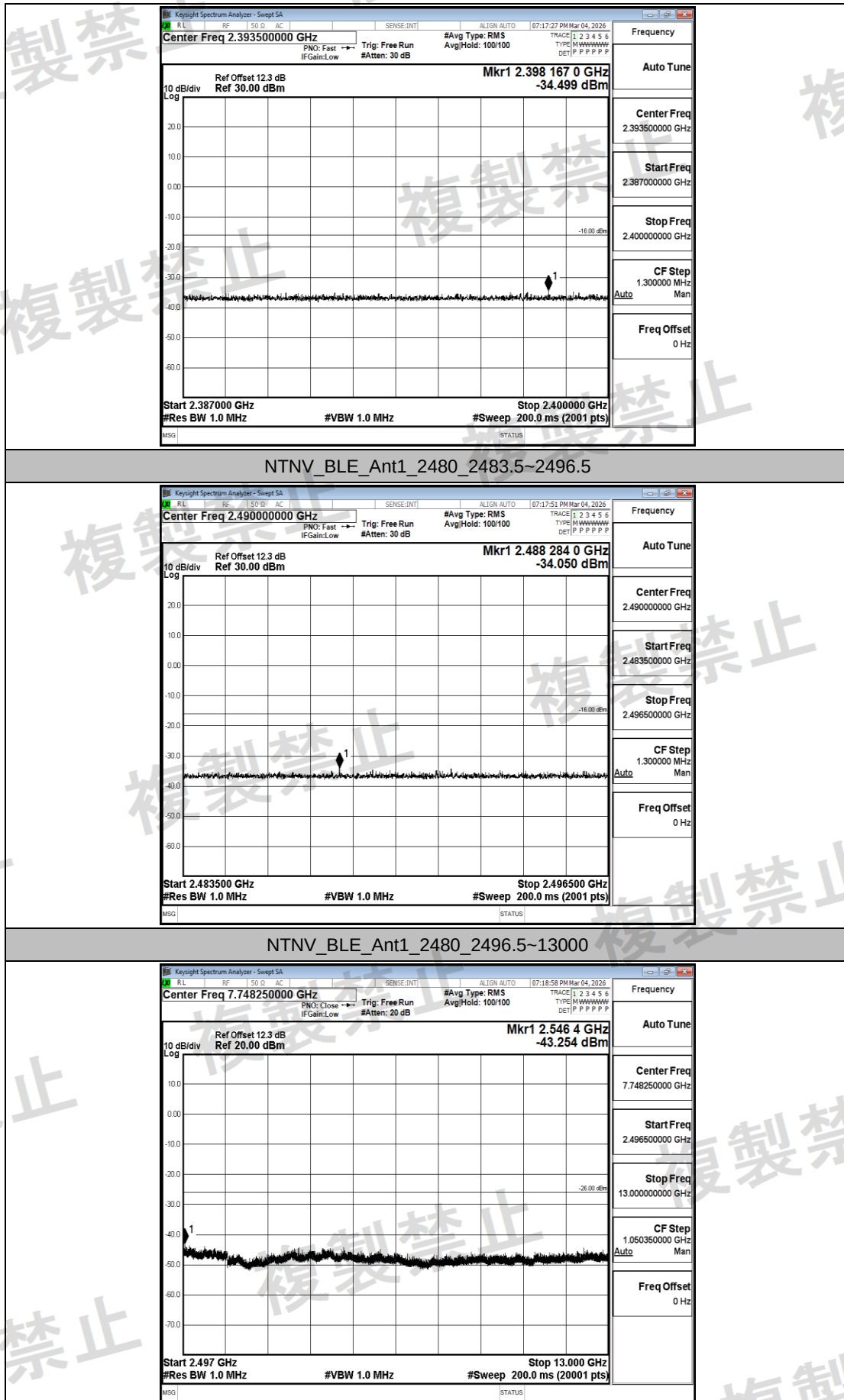












A.6 Spurious Emission of RX

Test Result

TestCondition	TestMode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE	Ant1	2402	30~1000	825.89	-78.16	≤-54	0.01528	≤4	PASS
				1000~12500	2559.40	-65.14	≤-47	0.30620	≤20	PASS
			2440	30~1000	873.42	-78.51	≤-54	0.01409	≤4	PASS
				1000~12500	2536.98	-64.78	≤-47	0.33266	≤20	PASS
			2480	30~1000	386.96	-78.51	≤-54	0.01409	≤4	PASS
				1000~12500	3163.73	-65.20	≤-47	0.30200	≤20	PASS

Test Graphs

