

Appendix B for BT LE Test Data

Product Name: Enya INSPIRE PRO Electric Guitar

Test Model: Inspire Pro

Environmental Conditions

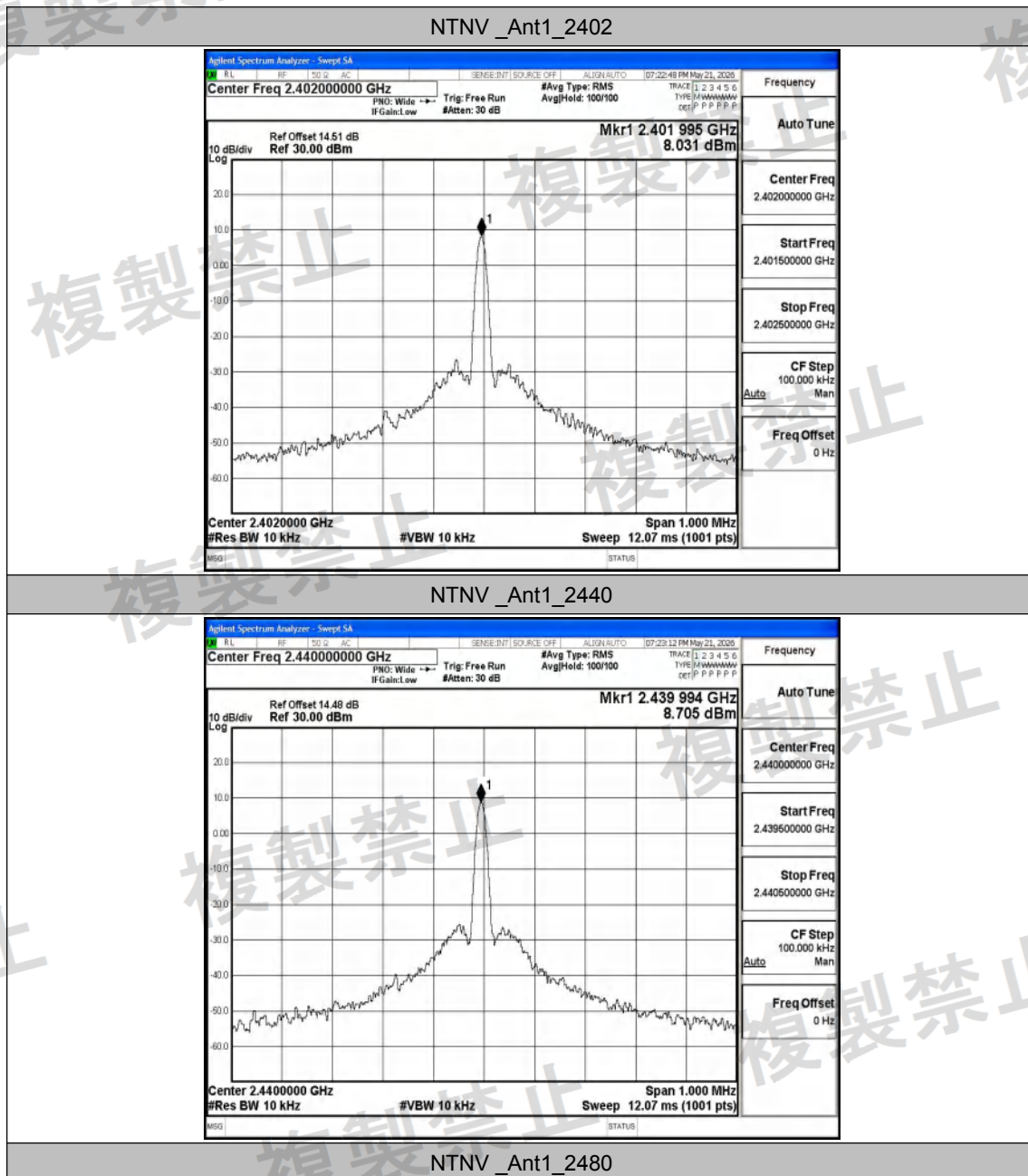
Temperature:	23.2° C
Relative Humidity:	52.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

B.1 Frequency Error

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	Frequency Error	Ant1	2402	-2.08160	±50	PASS
			2440	-2.45902	±50	PASS
			2480	-2.41936	±50	PASS

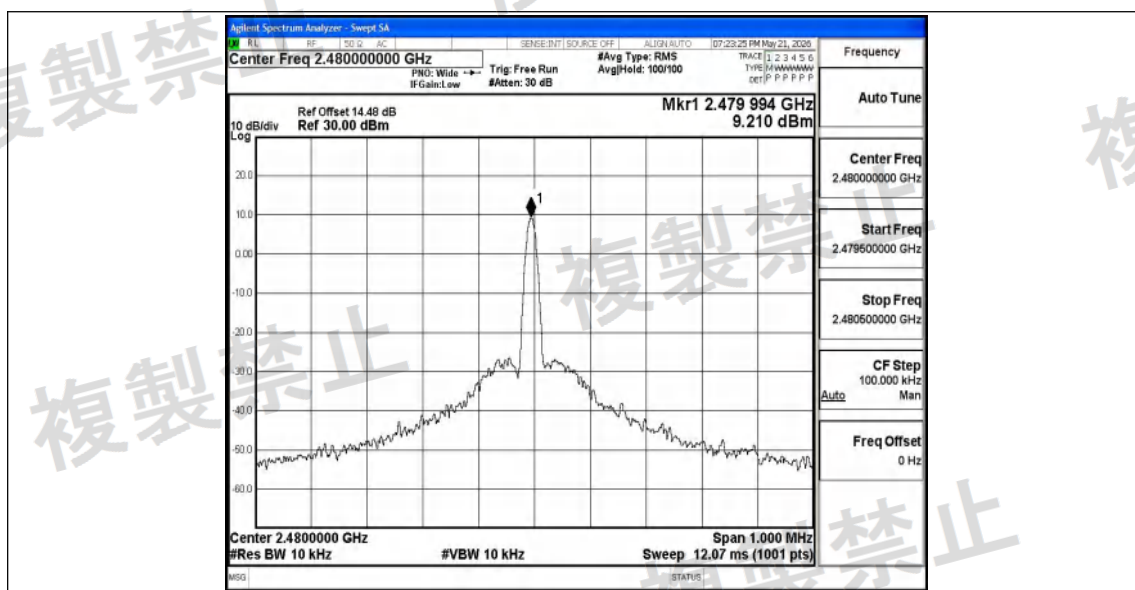
Test Graphs



Guangzhou LCS Compliance Testing Laboratory Ltd.

Add: No.44-1, Qianfeng North Road, Shiqi, Panyu District, Guangzhou, Guangdong, China

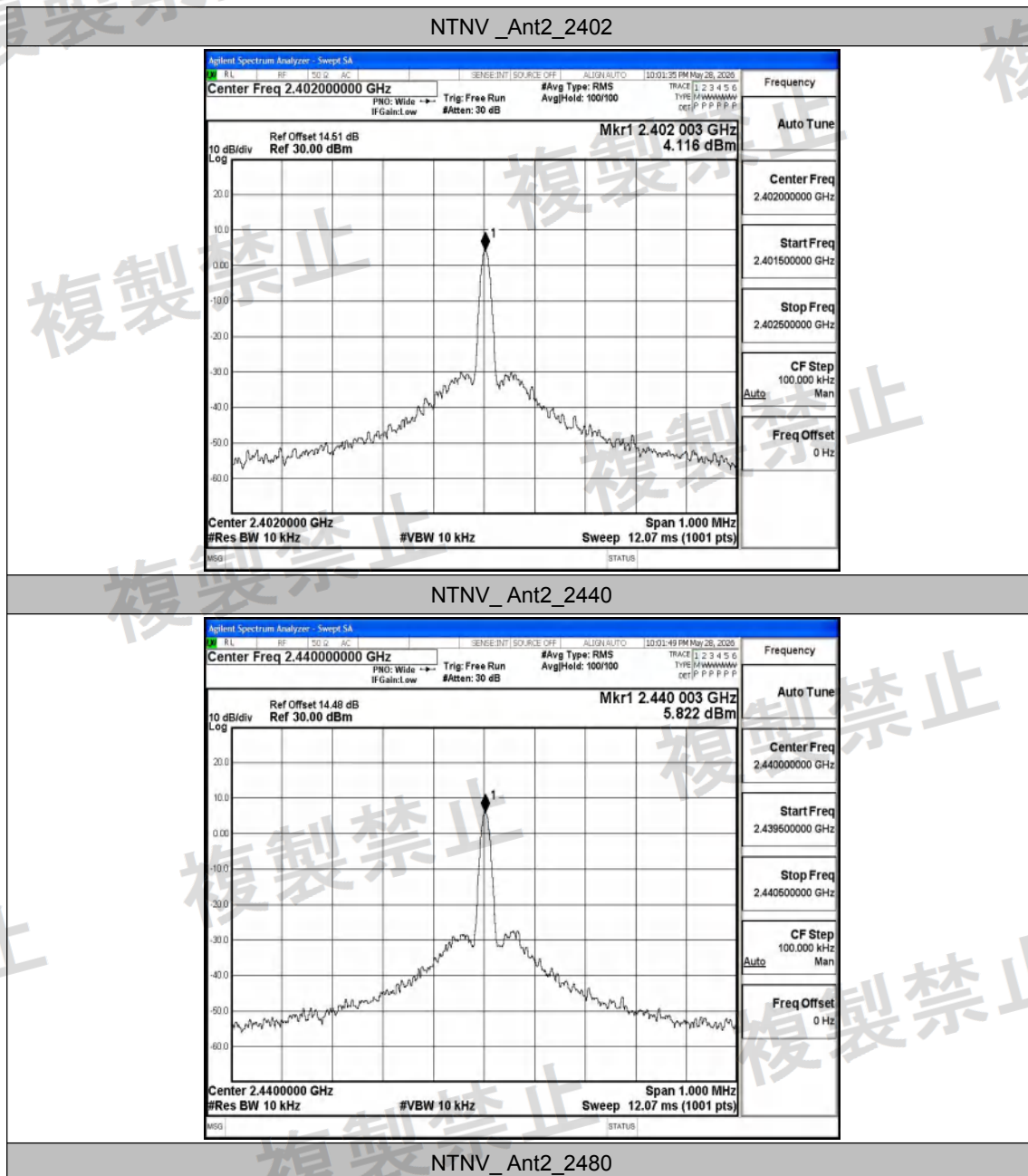
Tel: +(86) 020-39166689 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com



Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	Frequency Error	Ant2	2402	1.24896	±50	PASS
			2440	1.22951	±50	PASS
			2480	0.80645	±50	PASS

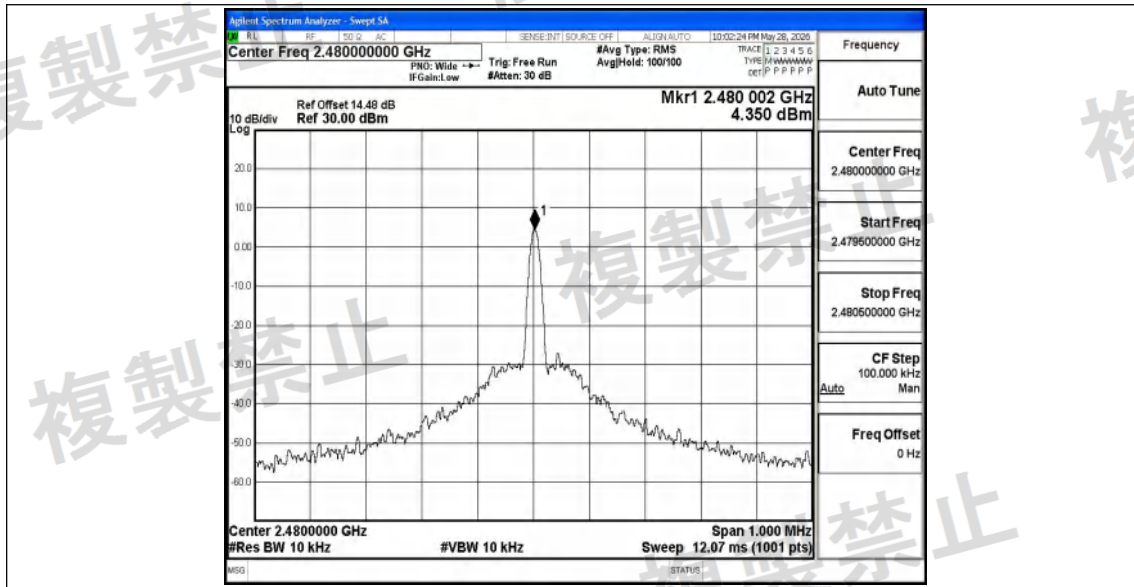
Test Graphs



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B.2 Antenna Power & EIRP

Test Result

Antenna Power							
TestCondition	TestMode	Antenna	Frequency [MHz]	Result [dBm]	Result [mW]	Limit [mW]	Verdict
NTNV	BLE_1M	Ant1	2402	1.30	1.3490	≤10	PASS
			2440	1.11	1.2912	≤10	PASS
			2480	1.18	1.3122	≤10	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Frequency [MHz]	Power [mW]	Rated Power [mW]	Result [%]	Limit [%]	Verdict
NTNV	BLE_1M	Ant1	2402	1.3490	1.5	-10.07	+20	PASS
			2440	1.2912	1.5	-13.92	+20	PASS
			2480	1.3122	1.5	-12.52	+20	PASS

Antenna Power							
TestCondition	TestMode	Antenna	Frequency [MHz]	Result [dBm]	Result [mW]	Limit [mW]	Verdict
NTNV	BLE_1M	Ant2	2402	1.60	1.4454	≤10	PASS
			2440	1.41	1.3836	≤10	PASS
			2480	1.43	1.3900	≤10	PASS

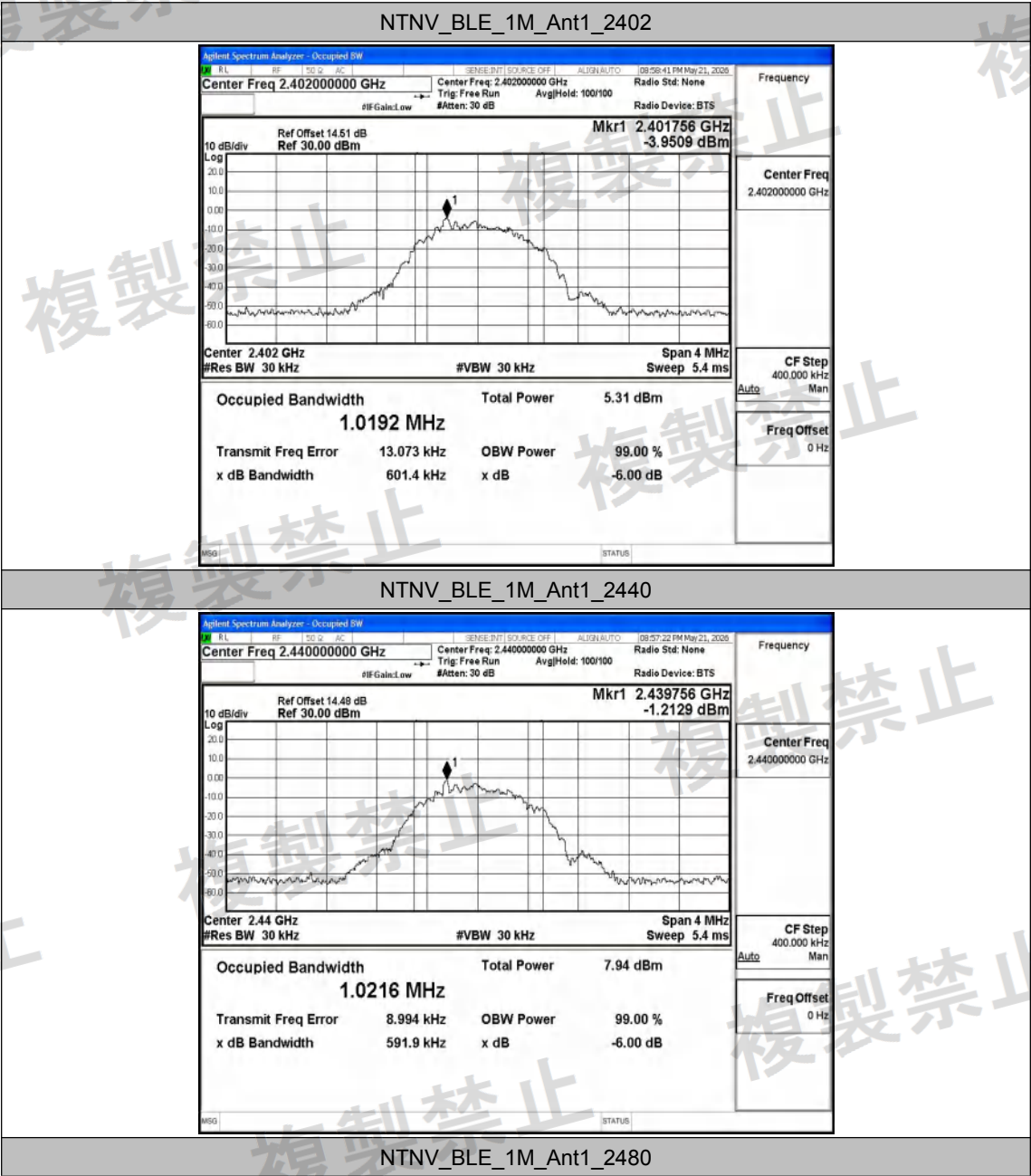
Tolerance								
Test Condition	Test Mode	Antenna	Frequency [MHz]	Power [mW]	Rated Power [mW]	Result [%]	Limit [%]	Verdict
NTNV	BLE_1M	Ant2	2402	1.4454	1.5	-3.64	+20	PASS
			2440	1.3836	1.5	-7.76	+20	PASS
			2480	1.3900	1.5	-7.33	+20	PASS

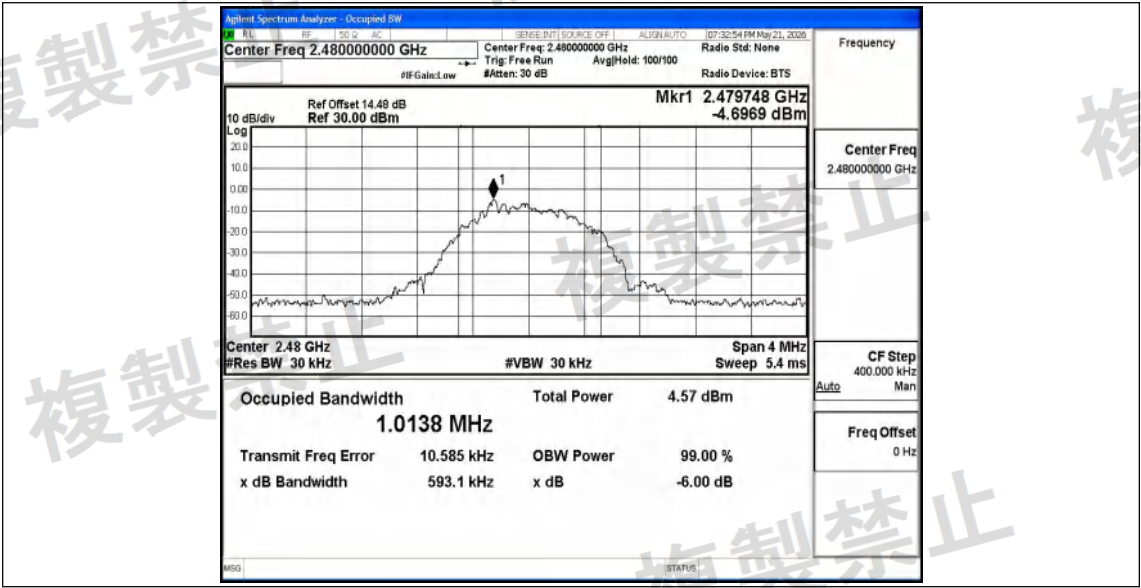
B.3 Occupied Bandwidth

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	1.019	≤26	PASS
			2440	1.022	≤26	PASS
			2480	1.014	≤26	PASS

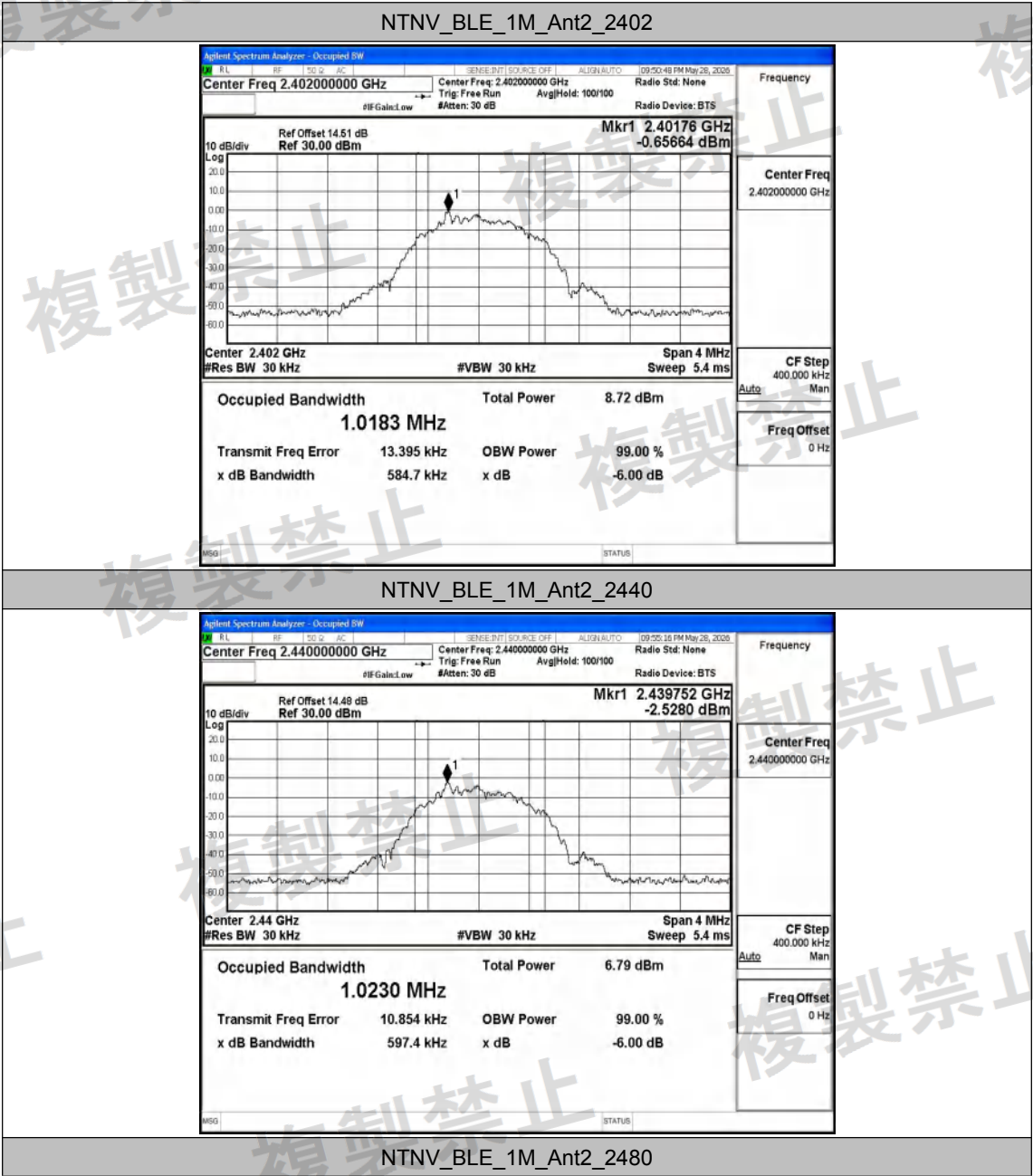
Test Graphs

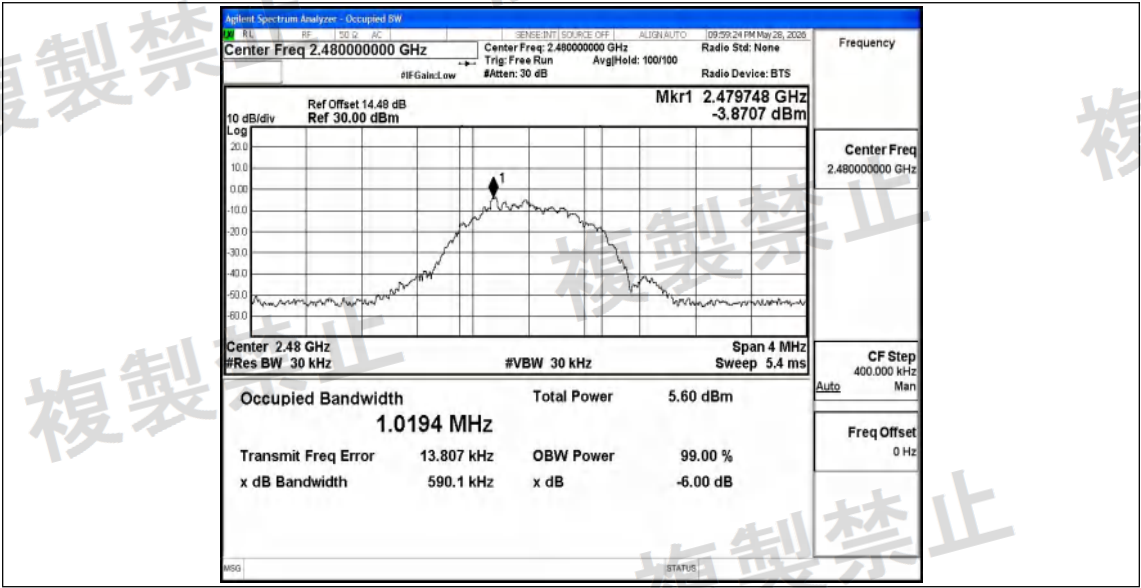




TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant2	2402	1.018	≤26	PASS
			2440	1.023	≤26	PASS
			2480	1.019	≤26	PASS

Test Graphs



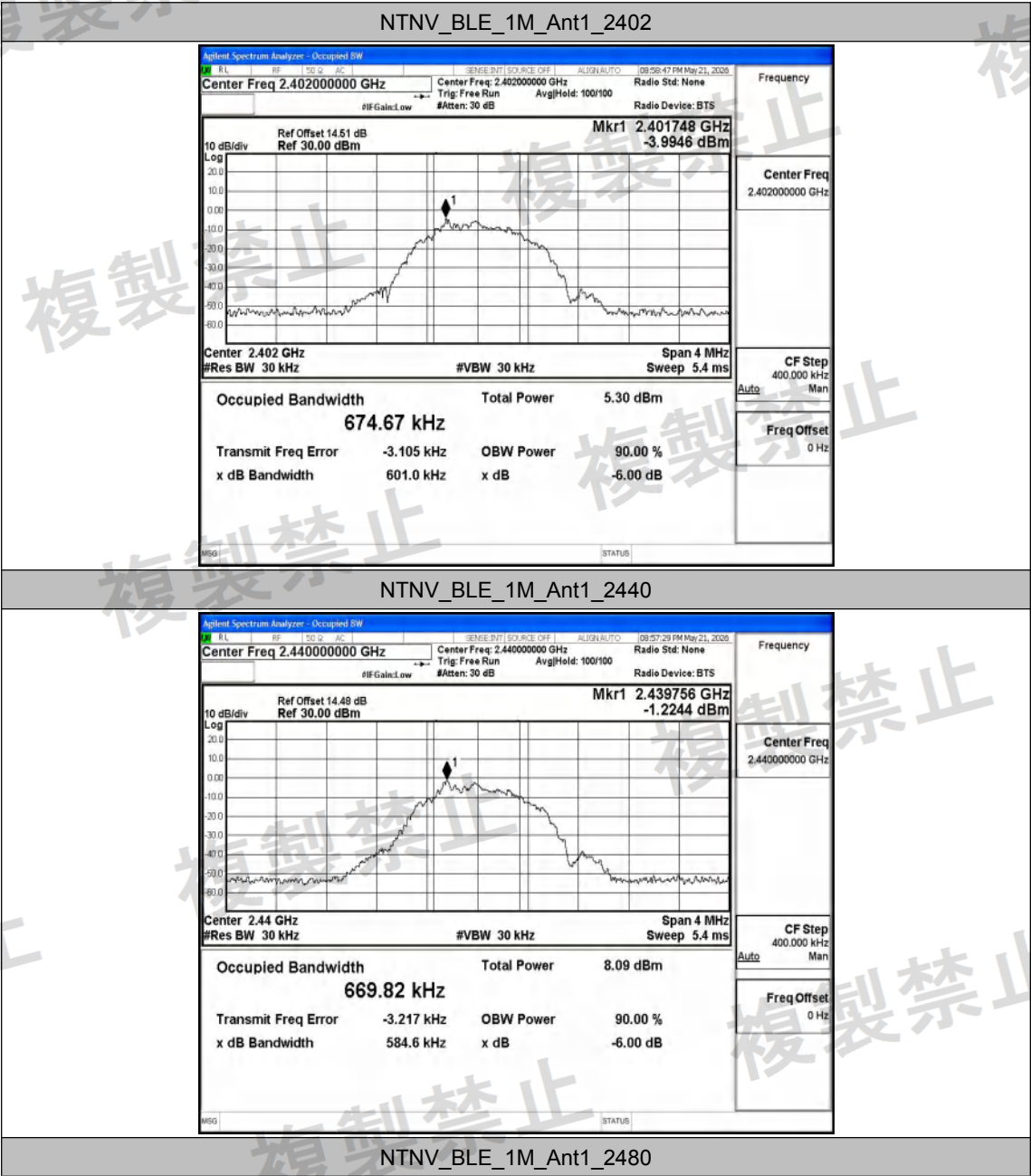


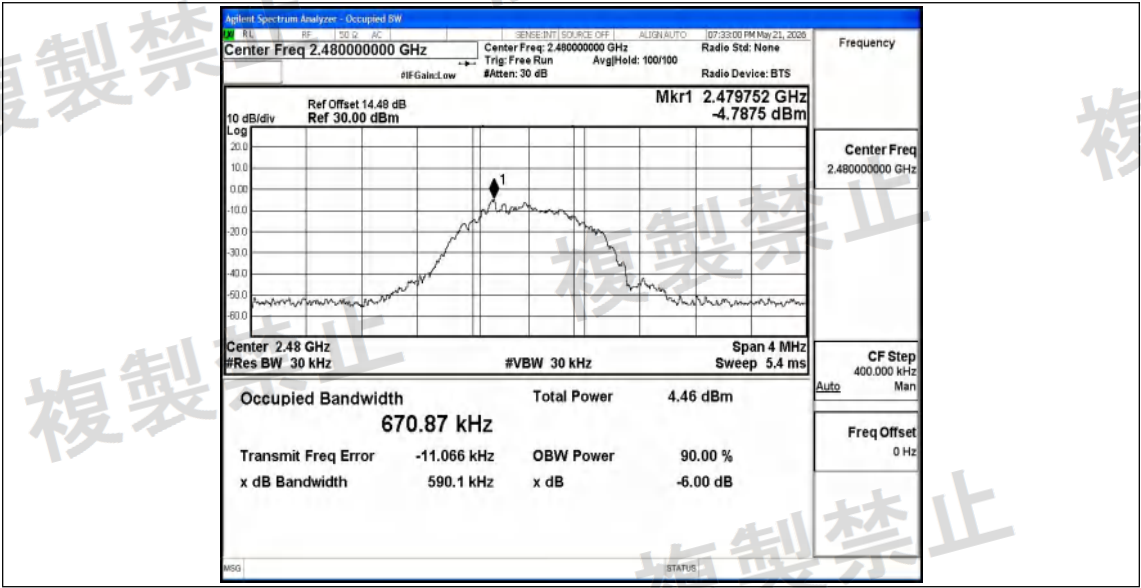
B.4 Spread Bandwidth

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]
NTNV	BLE_1M	Ant1	2402	0.675
			2440	0.670
			2480	0.671

Test Graphs

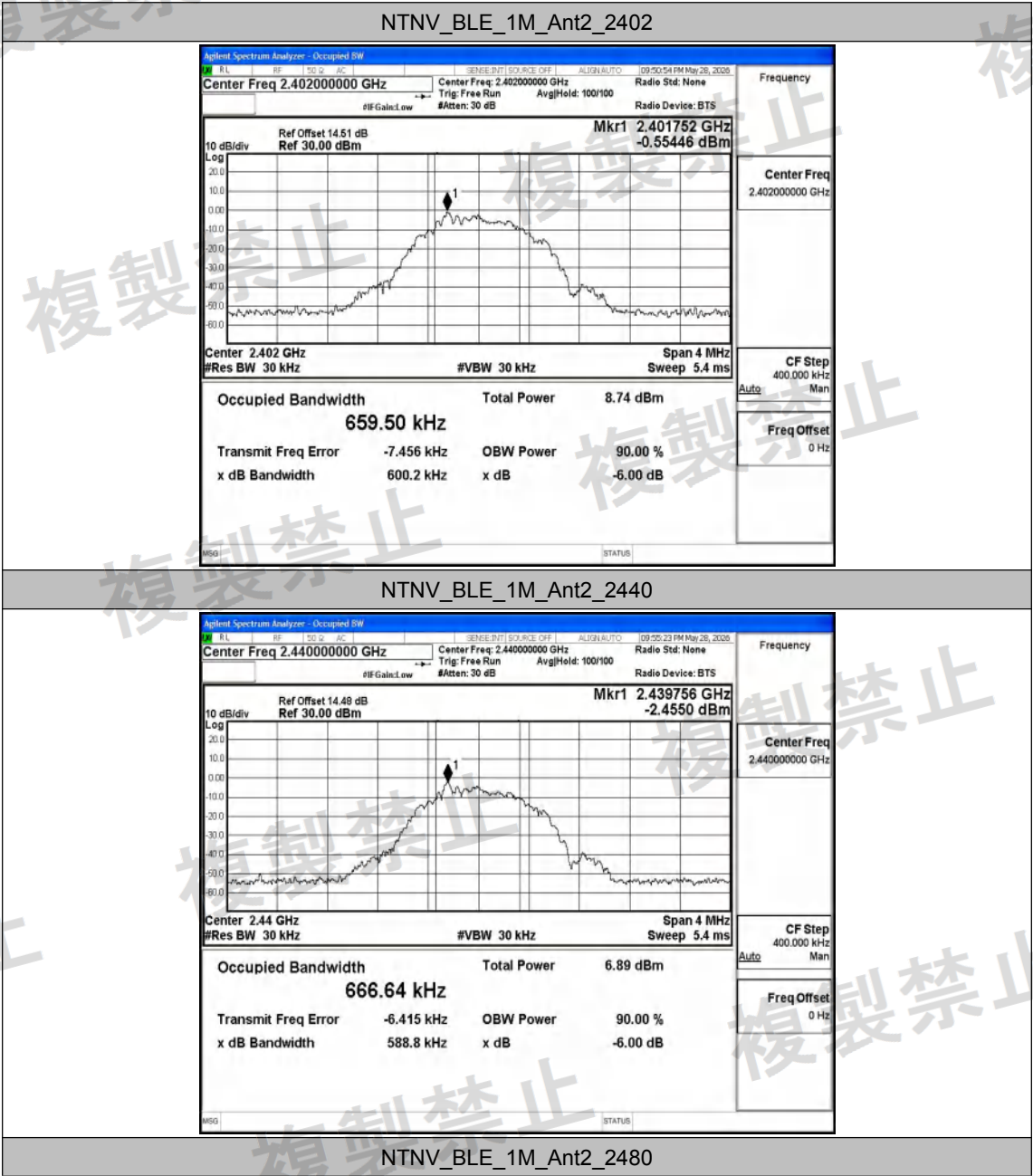


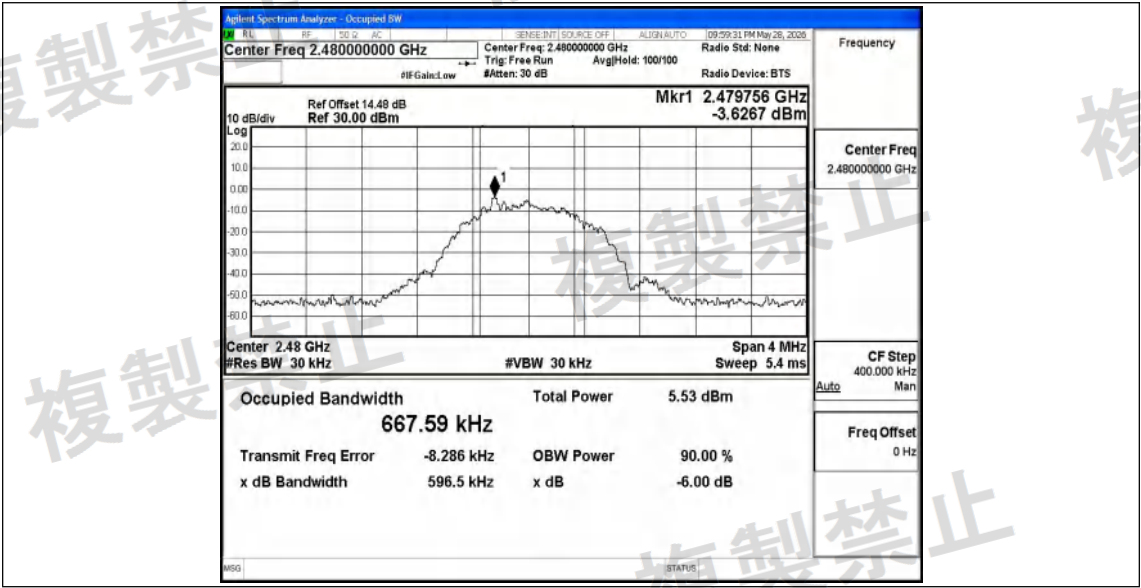


Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]
NTNV	BLE_1M	Ant2	2402	0.660
			2440	0.667
			2480	0.668

Test Graphs



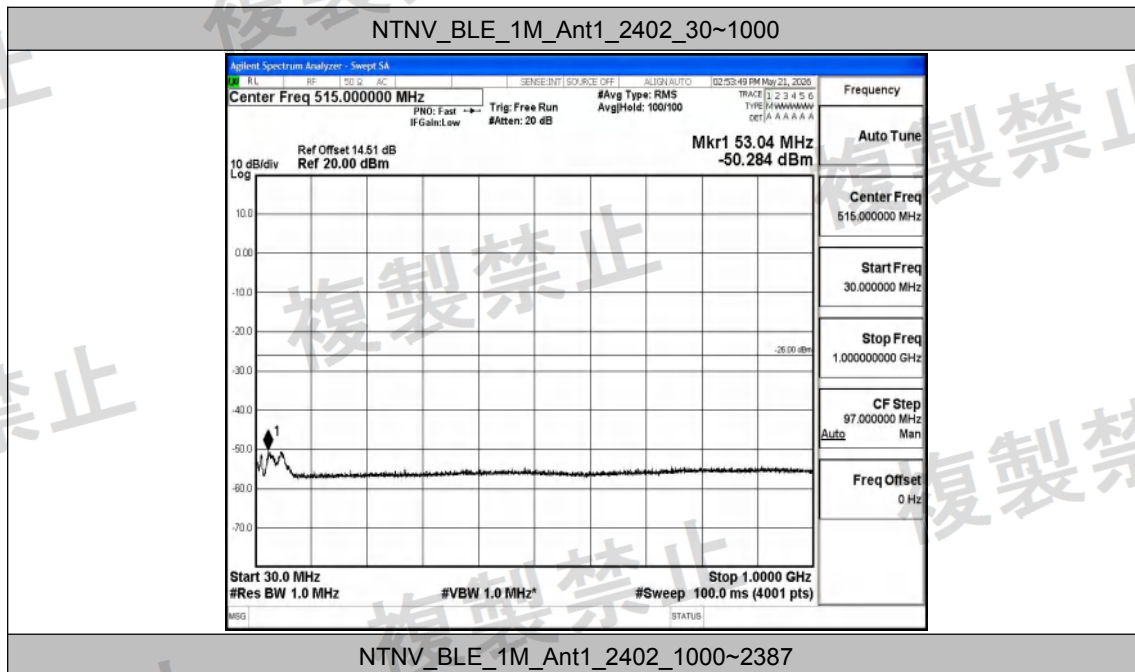


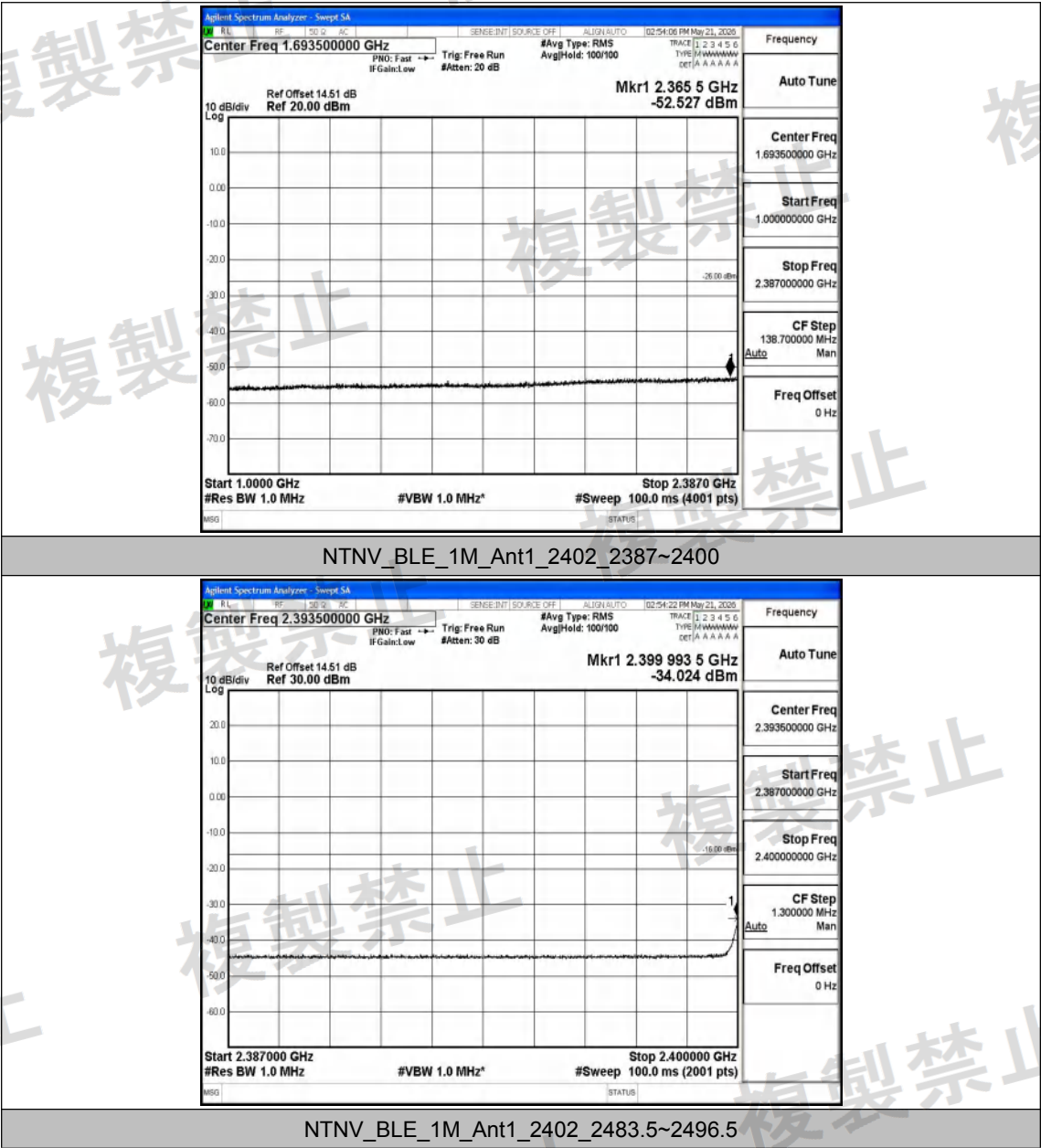
B.5 Spurious Emission of TX

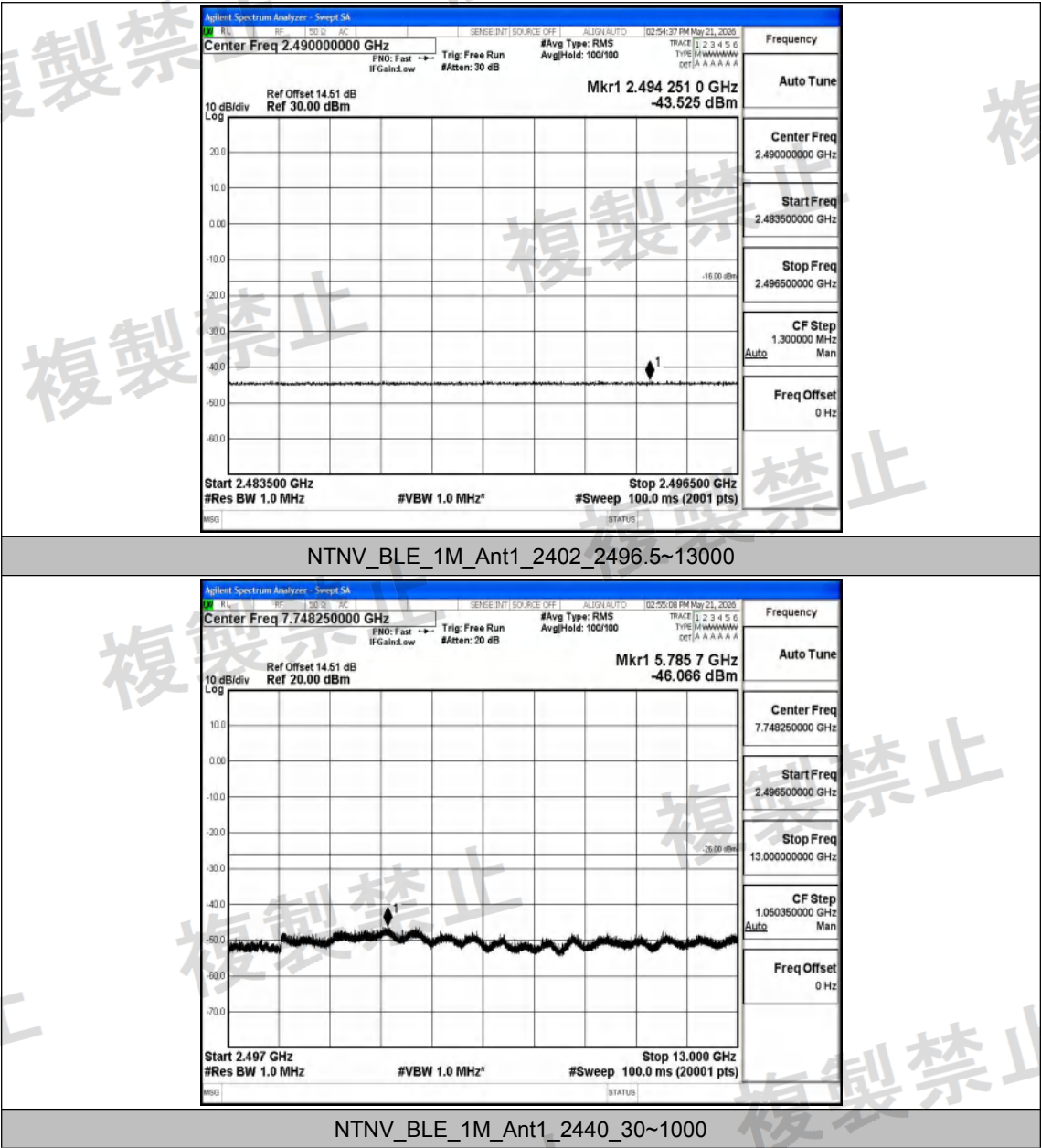
Test Result

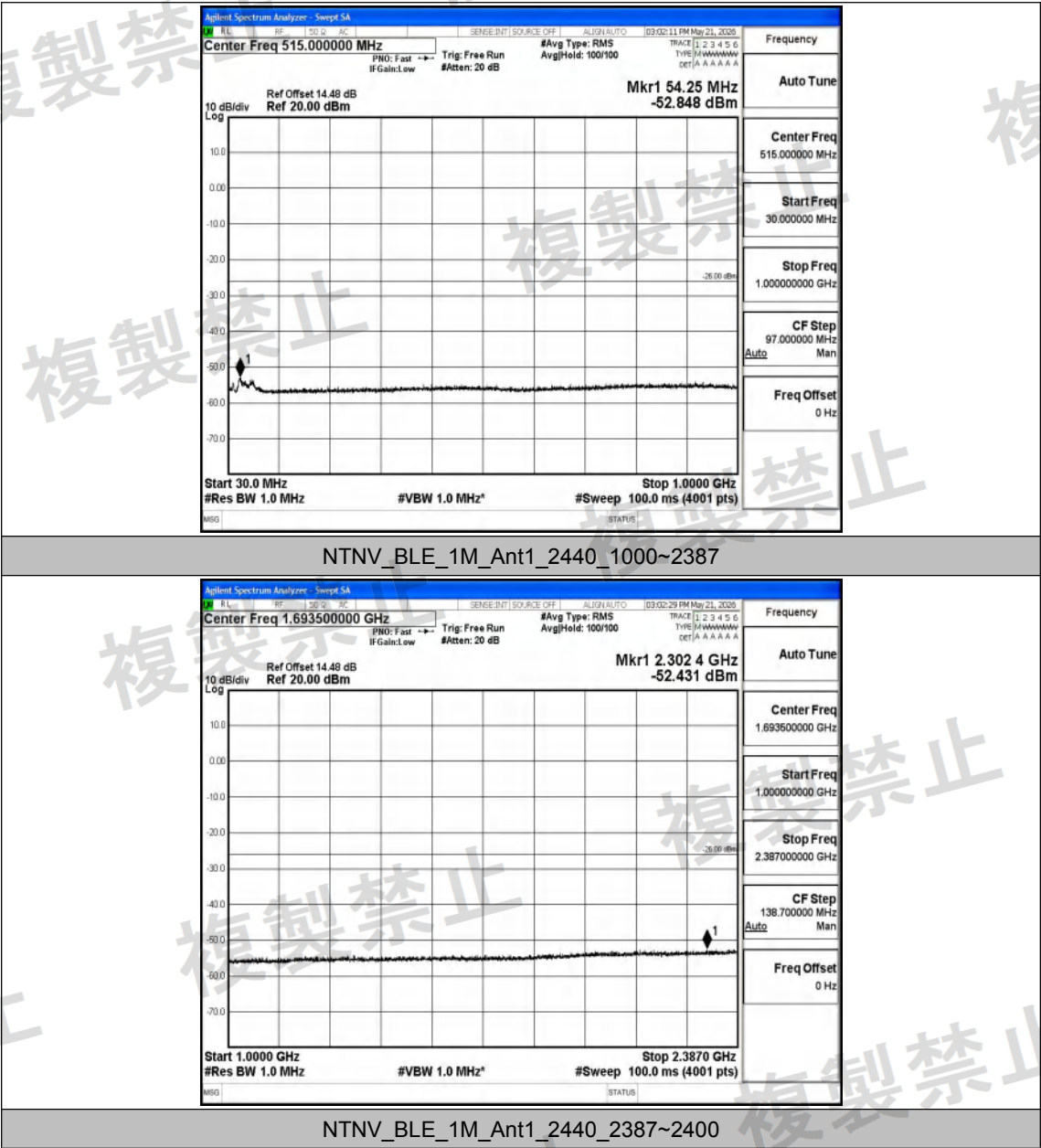
TestCondition	TestMode	Antenna	Channel	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	-50.28	≤-26	0.00938	≤2.5	PASS
				1000~2387	-52.53	≤-26	0.00558	≤2.5	PASS
				2387~2400	-34.02	≤-16	0.39628	≤25	PASS
				2483.5~2496.5	-43.53	≤-16	0.04436	≤25	PASS
				2496.5~13000	-46.07	≤-26	0.02472	≤2.5	PASS
			2440	30~1000	-52.85	≤-26	0.00519	≤2.5	PASS
				1000~2387	-52.43	≤-26	0.00571	≤2.5	PASS
				2387~2400	-43.53	≤-16	0.04436	≤25	PASS
				2483.5~2496.5	-43.70	≤-16	0.04266	≤25	PASS
				2496.5~13000	-45.36	≤-26	0.02911	≤2.5	PASS
			2480	30~1000	-53.87	≤-26	0.00410	≤2.5	PASS
				1000~2387	-52.89	≤-26	0.00514	≤2.5	PASS
				2387~2400	-43.55	≤-16	0.04416	≤25	PASS
				2483.5~2496.5	-43.31	≤-16	0.04667	≤25	PASS
				2496.5~13000	-45.66	≤-26	0.02716	≤2.5	PASS

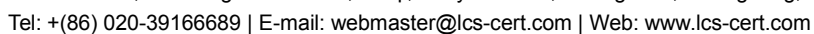
Test Graphs

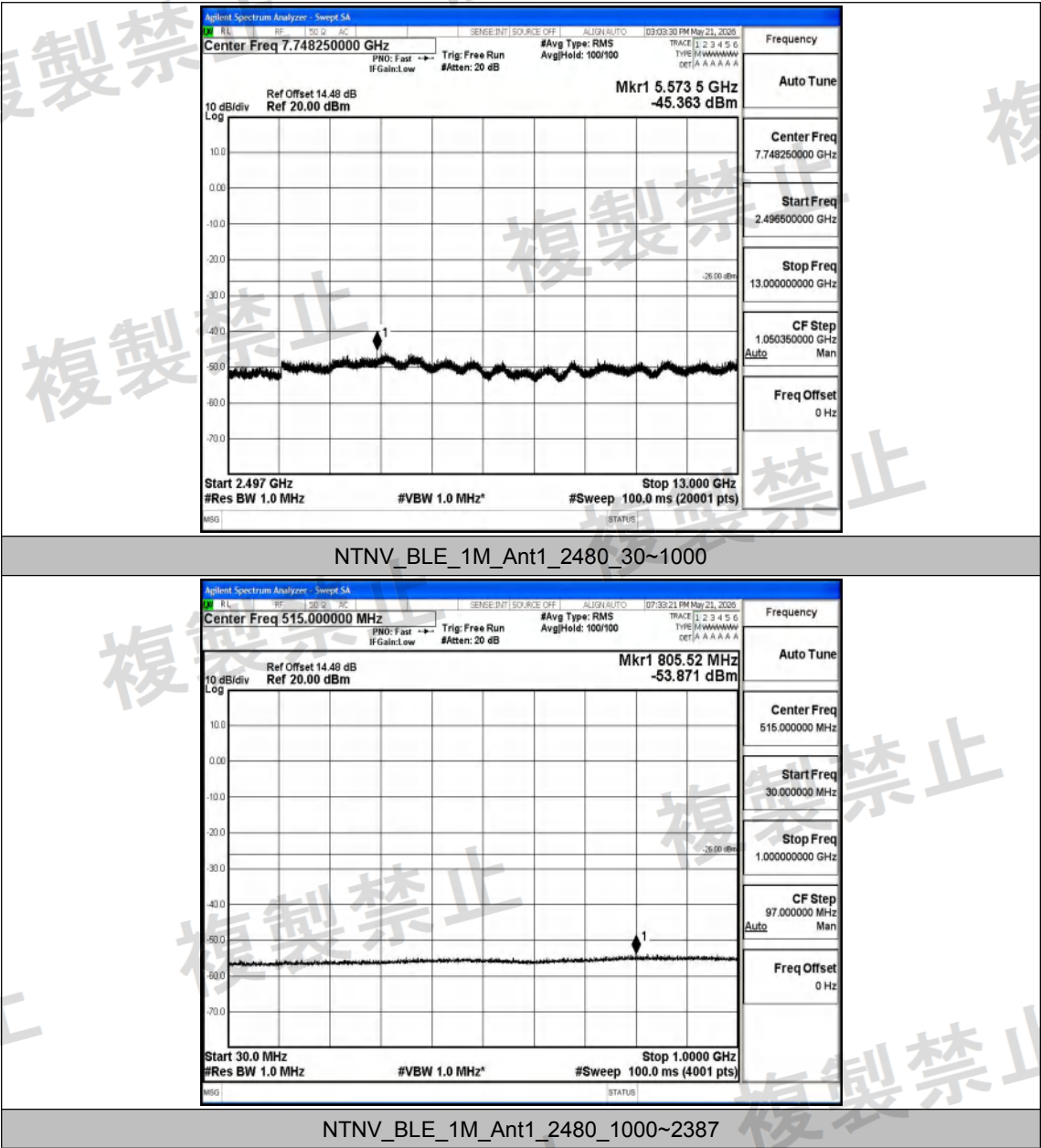


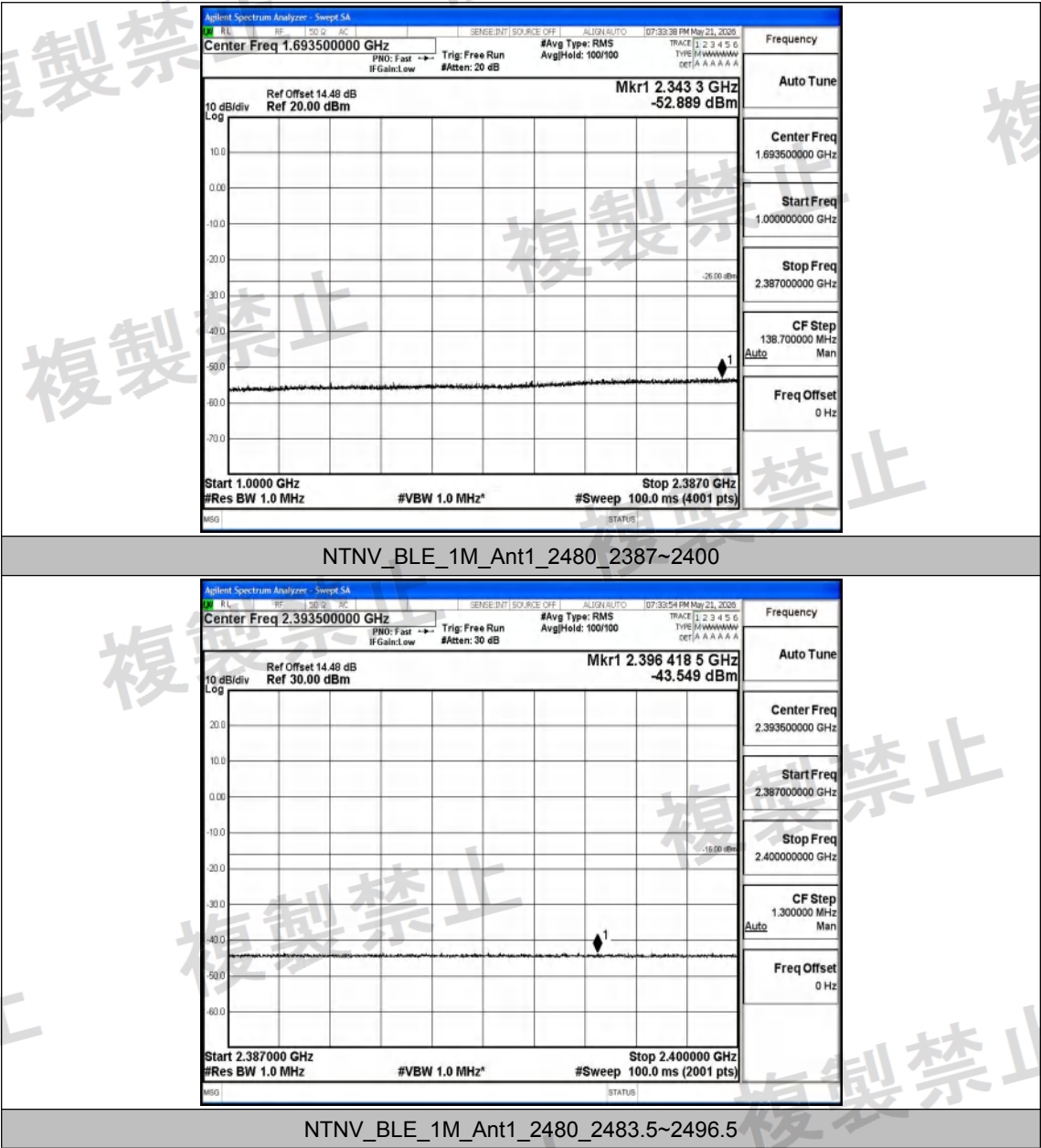


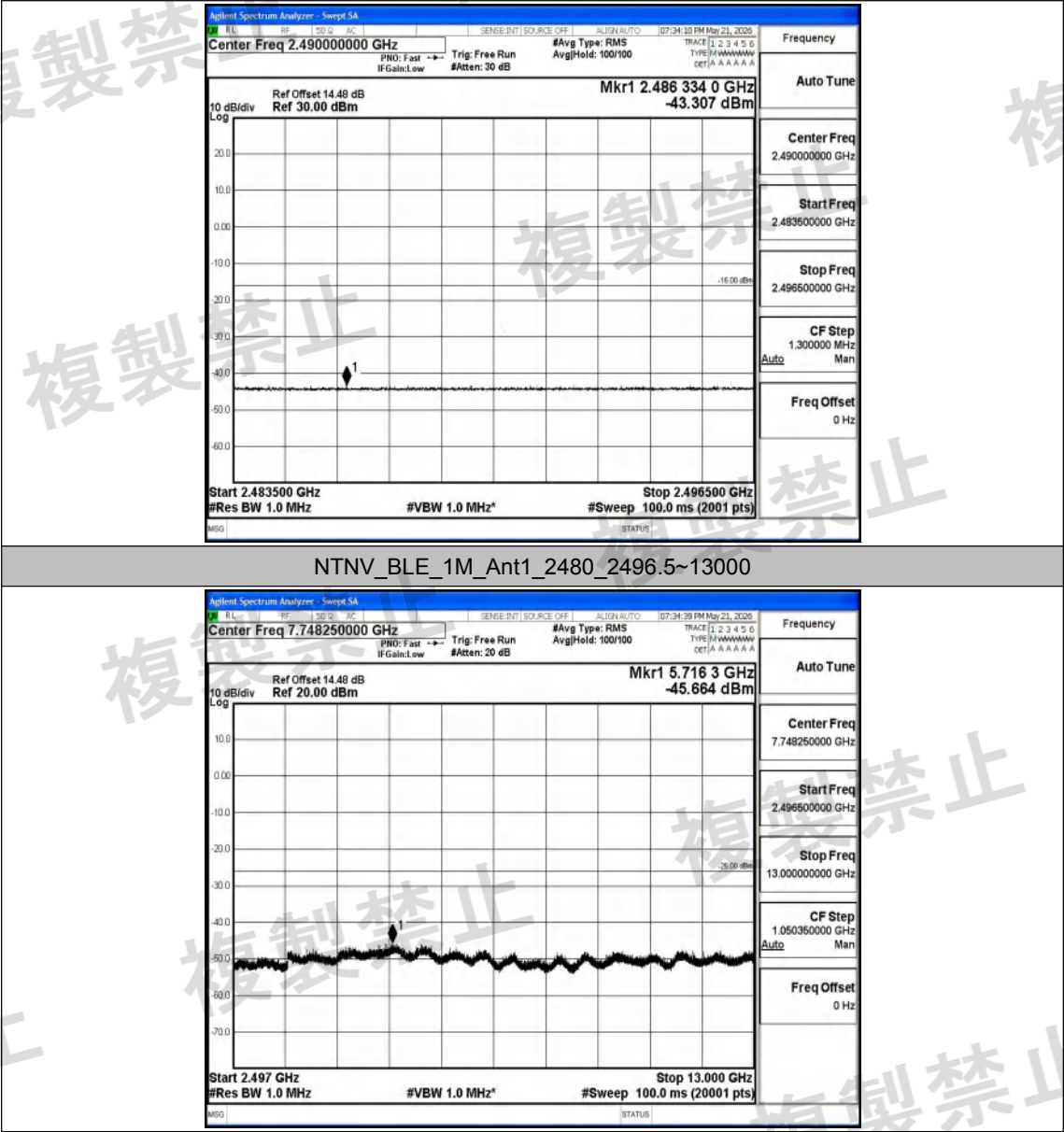






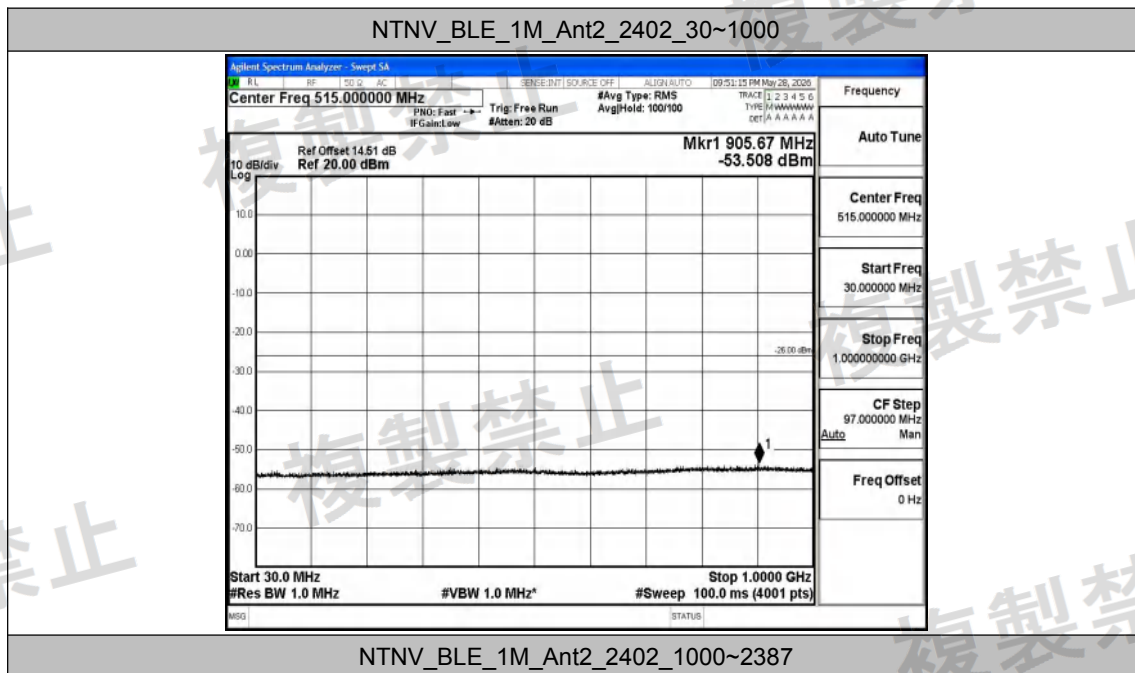


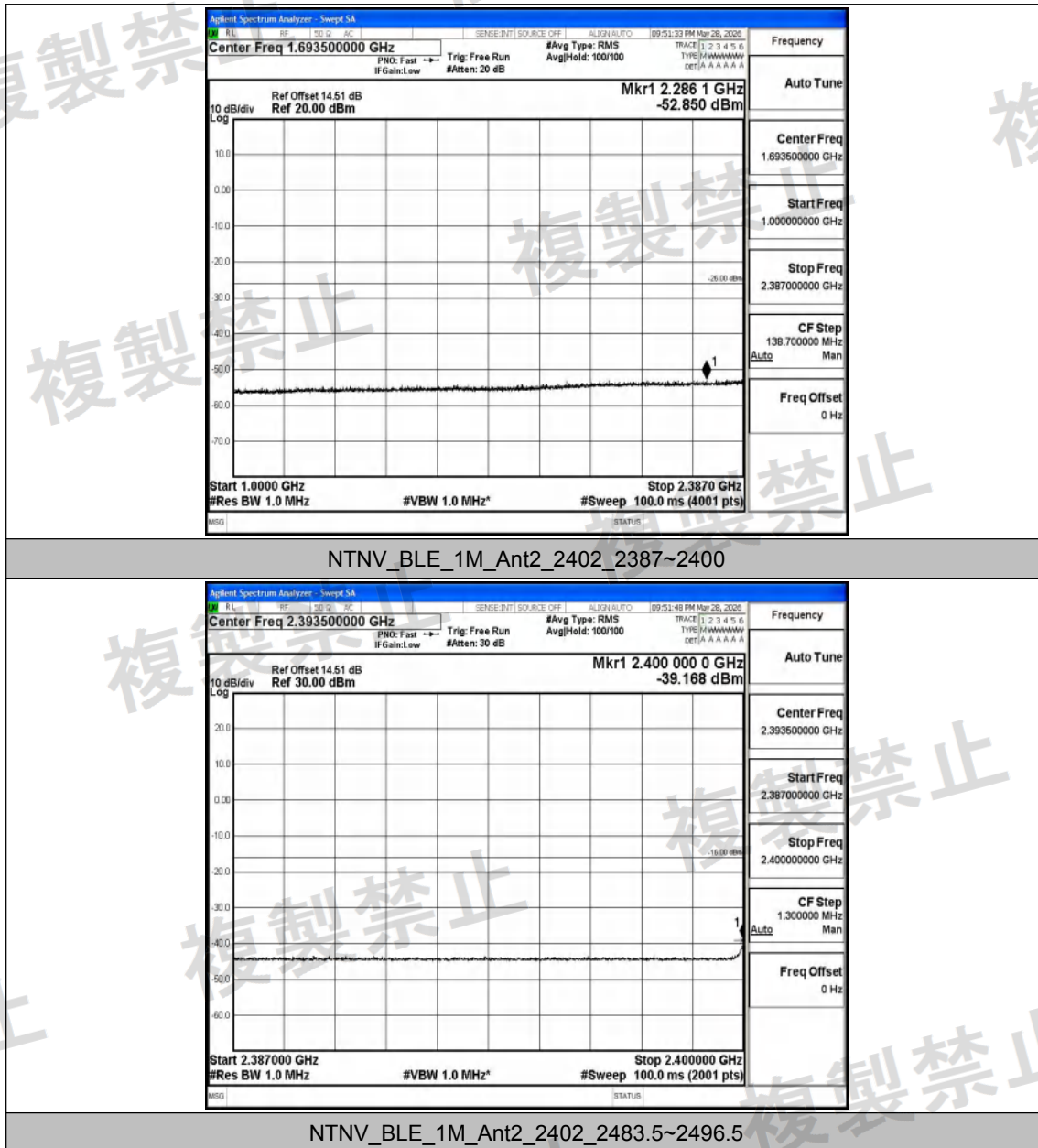


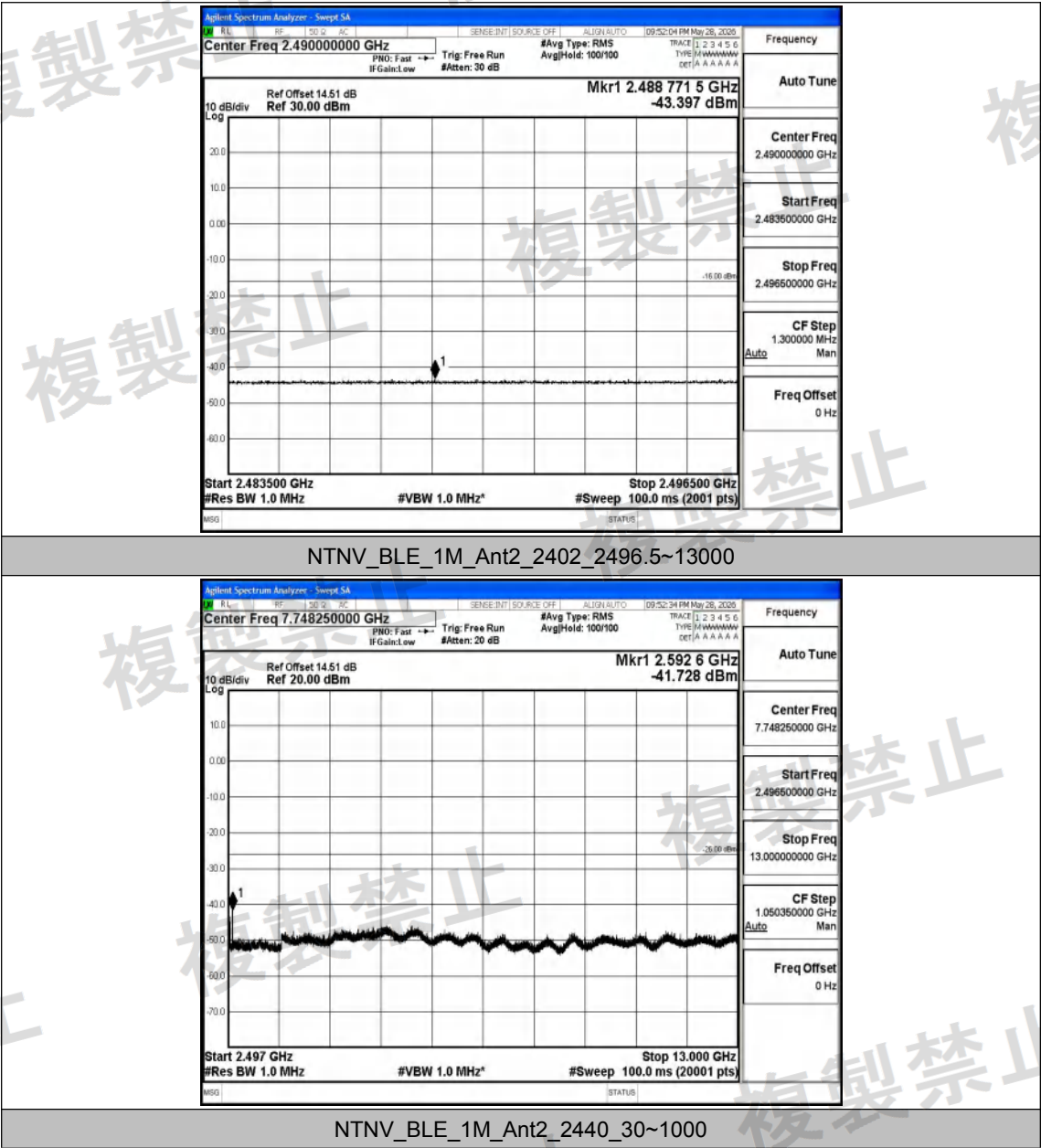


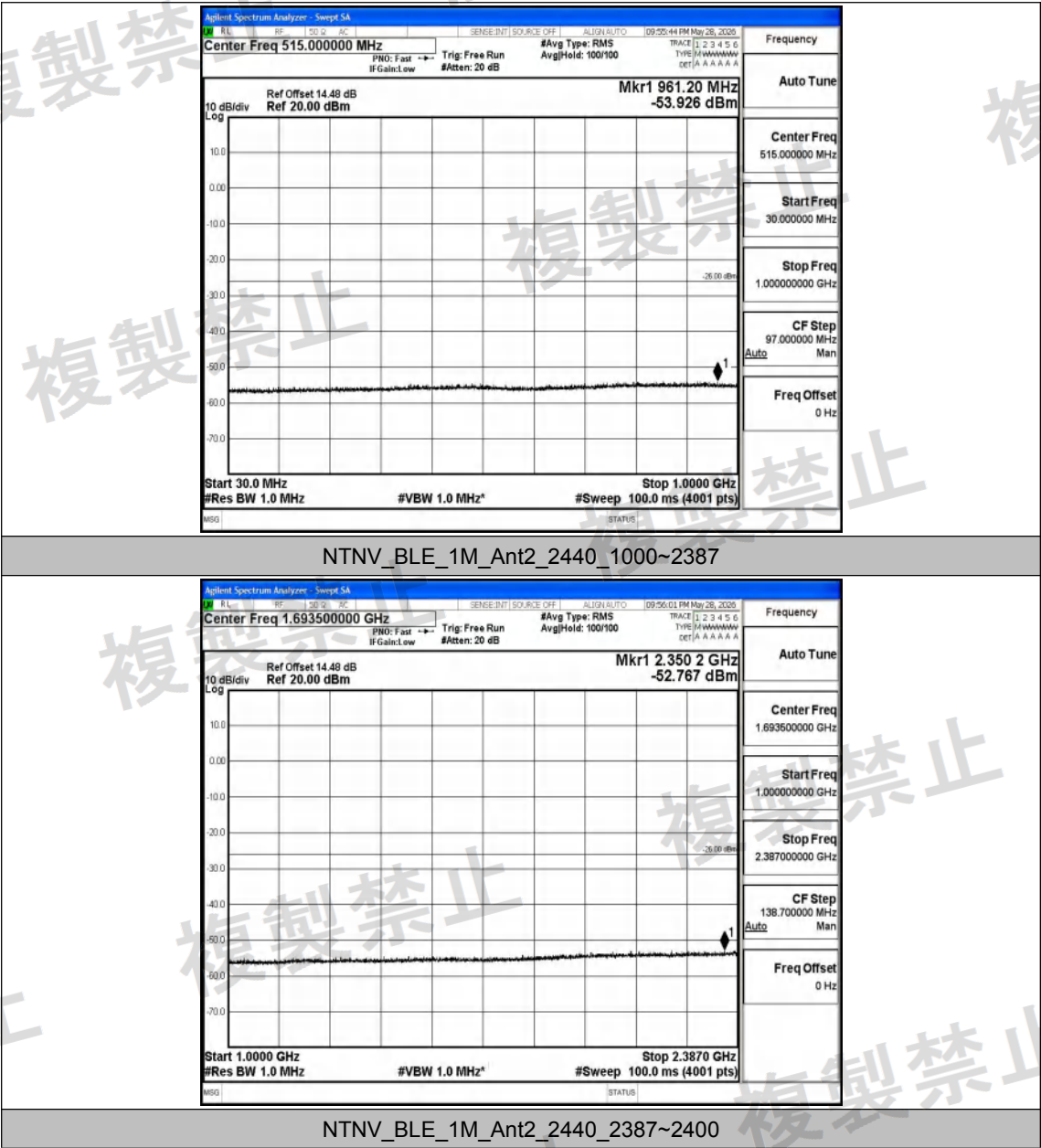
TestCondition	TestMode	Antenna	Freq(MHz)	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE_1M	Ant2	2402	30~1000	-53.51	≤-26	0.00446	≤2.5	PASS
				1000~2387	-52.85	≤-26	0.00519	≤2.5	PASS
				2387~2400	-39.17	≤-16	0.12106	≤25	PASS
				2483.5~2496.5	-43.40	≤-16	0.04571	≤25	PASS
				2496.5~13000	-41.73	≤-26	0.06714	≤2.5	PASS
			2440	30~1000	-53.93	≤-26	0.00405	≤2.5	PASS
				1000~2387	-52.77	≤-26	0.00528	≤2.5	PASS
				2387~2400	-43.34	≤-16	0.04634	≤25	PASS
				2483.5~2496.5	-43.28	≤-16	0.04699	≤25	PASS
				2496.5~13000	-45.86	≤-26	0.02594	≤2.5	PASS
			2480	30~1000	-53.90	≤-26	0.00407	≤2.5	PASS
				1000~2387	-52.72	≤-26	0.00535	≤2.5	PASS
				2387~2400	-43.25	≤-16	0.04732	≤25	PASS
				2483.5~2496.5	-43.22	≤-16	0.04764	≤25	PASS
				2496.5~13000	-45.74	≤-26	0.02667	≤2.5	PASS

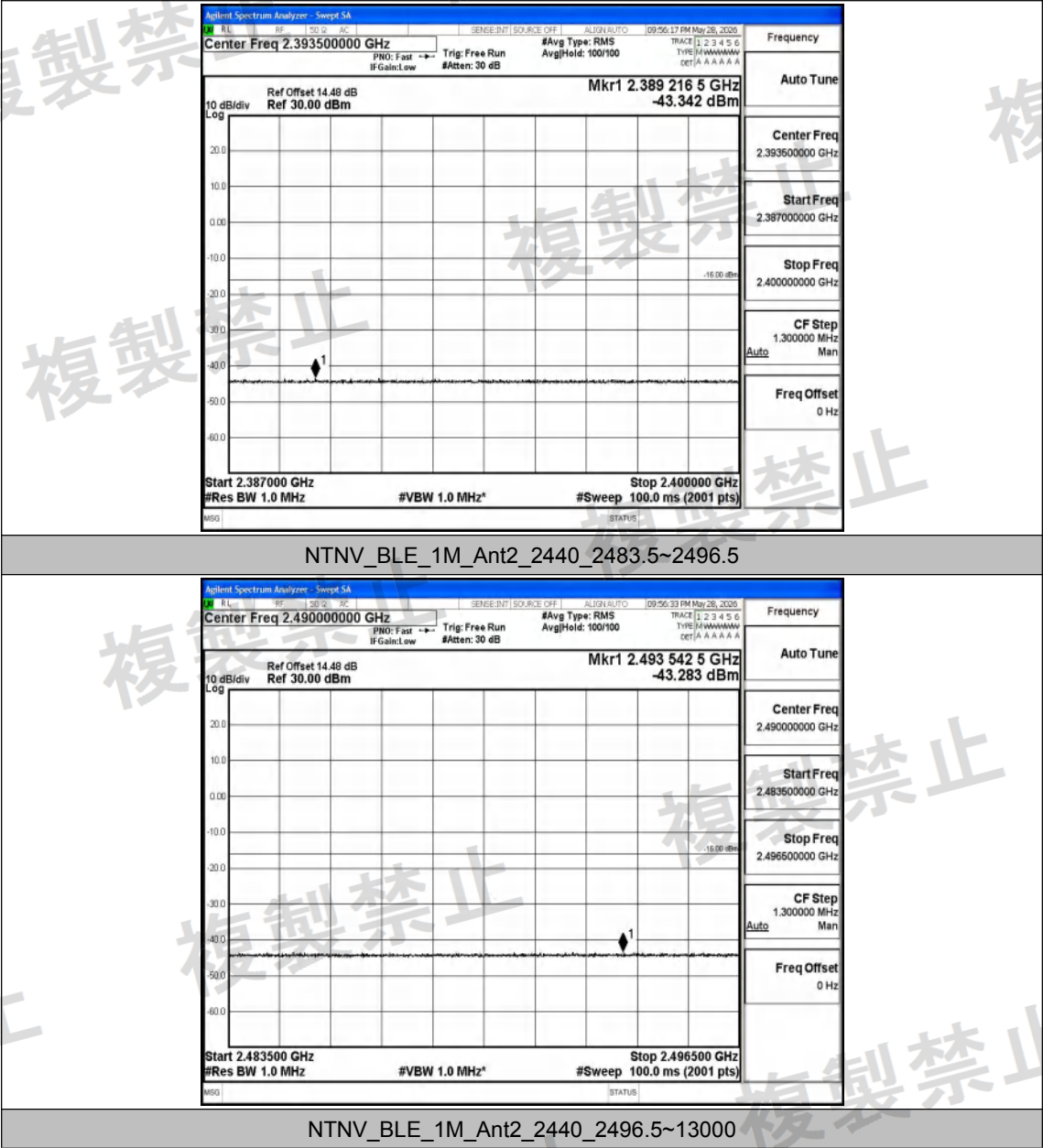
Test Graphs

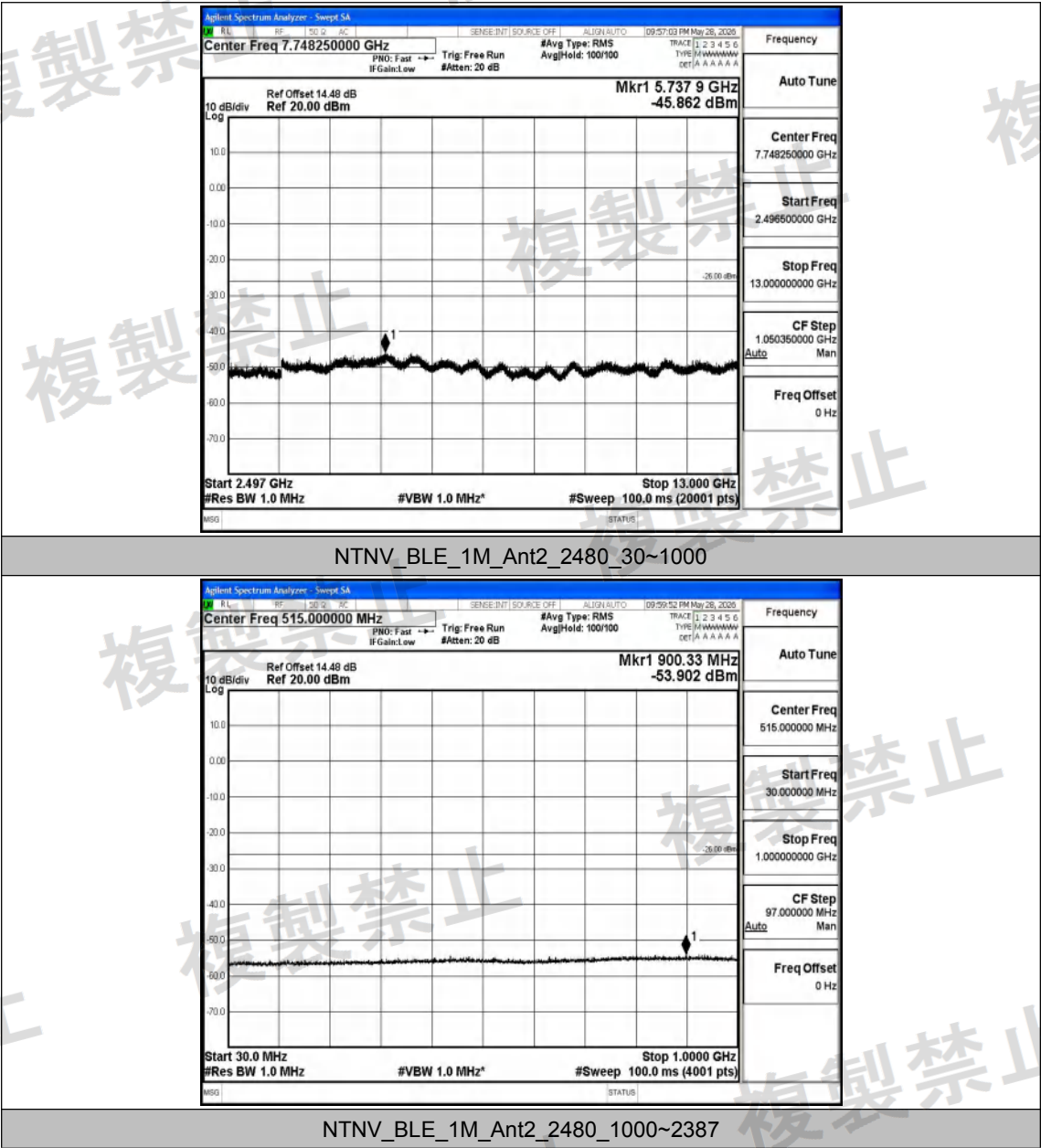


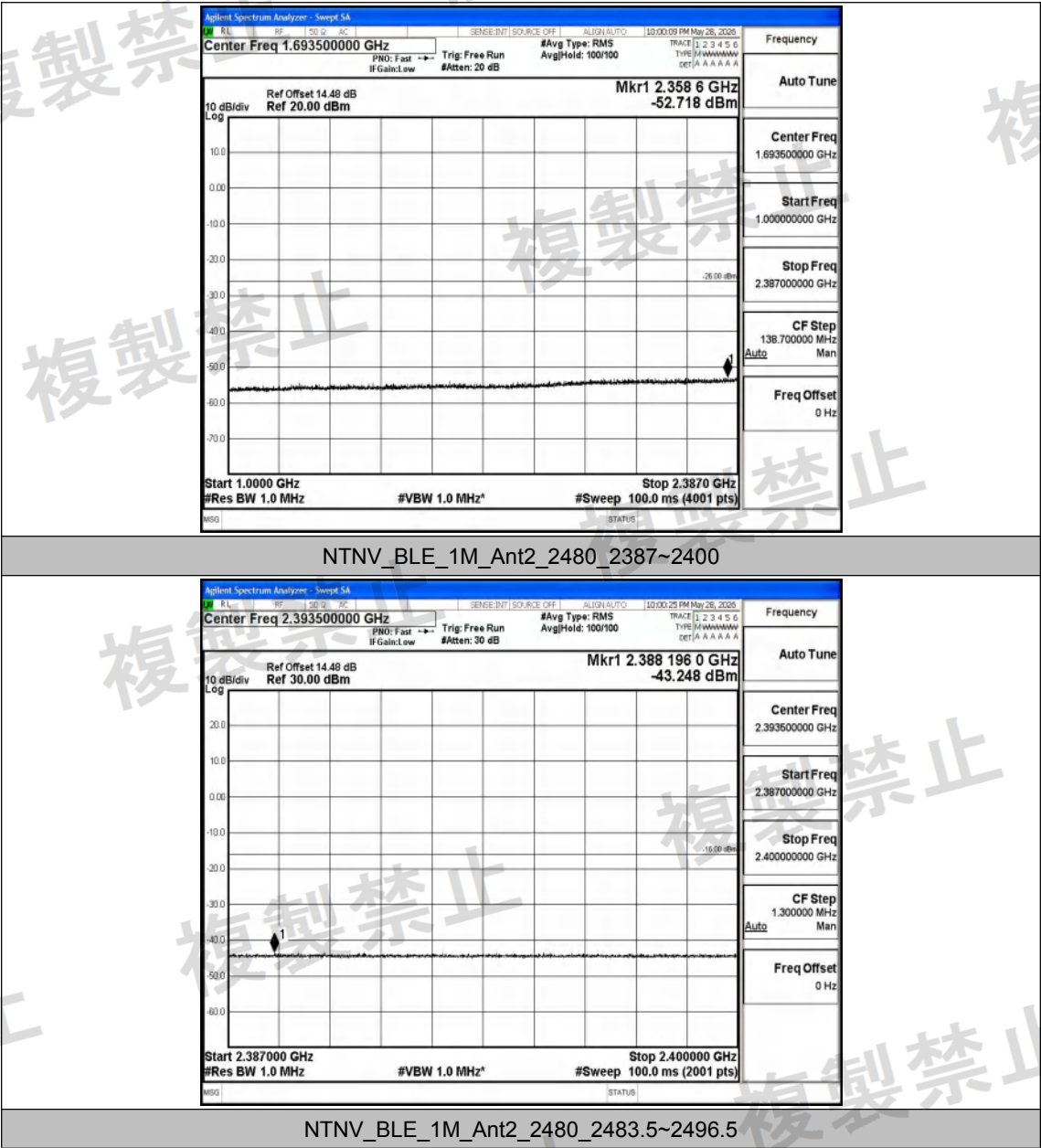


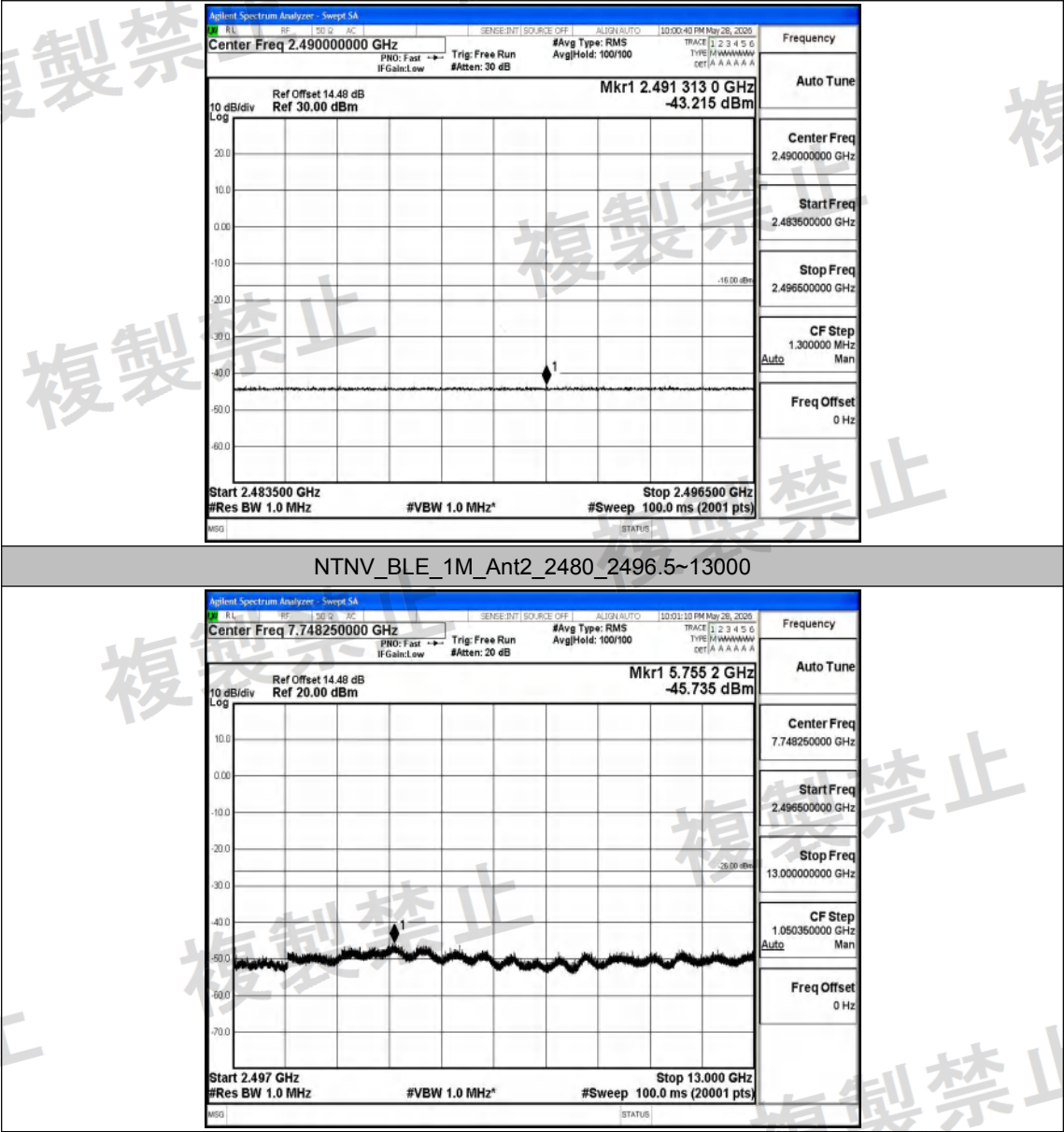










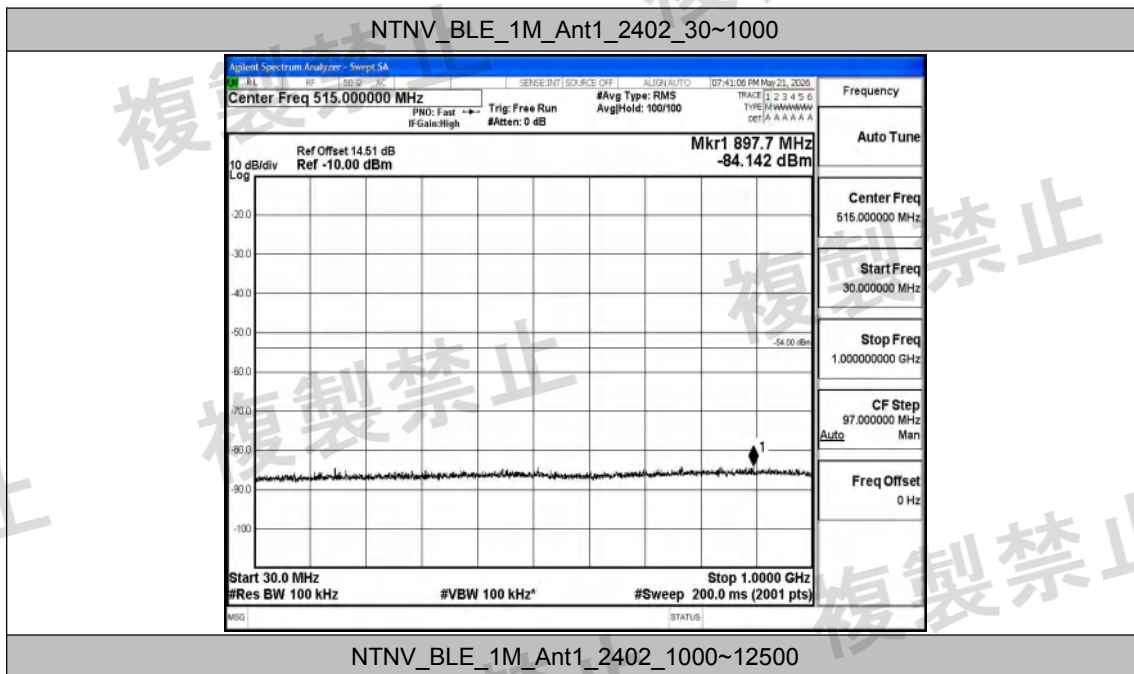


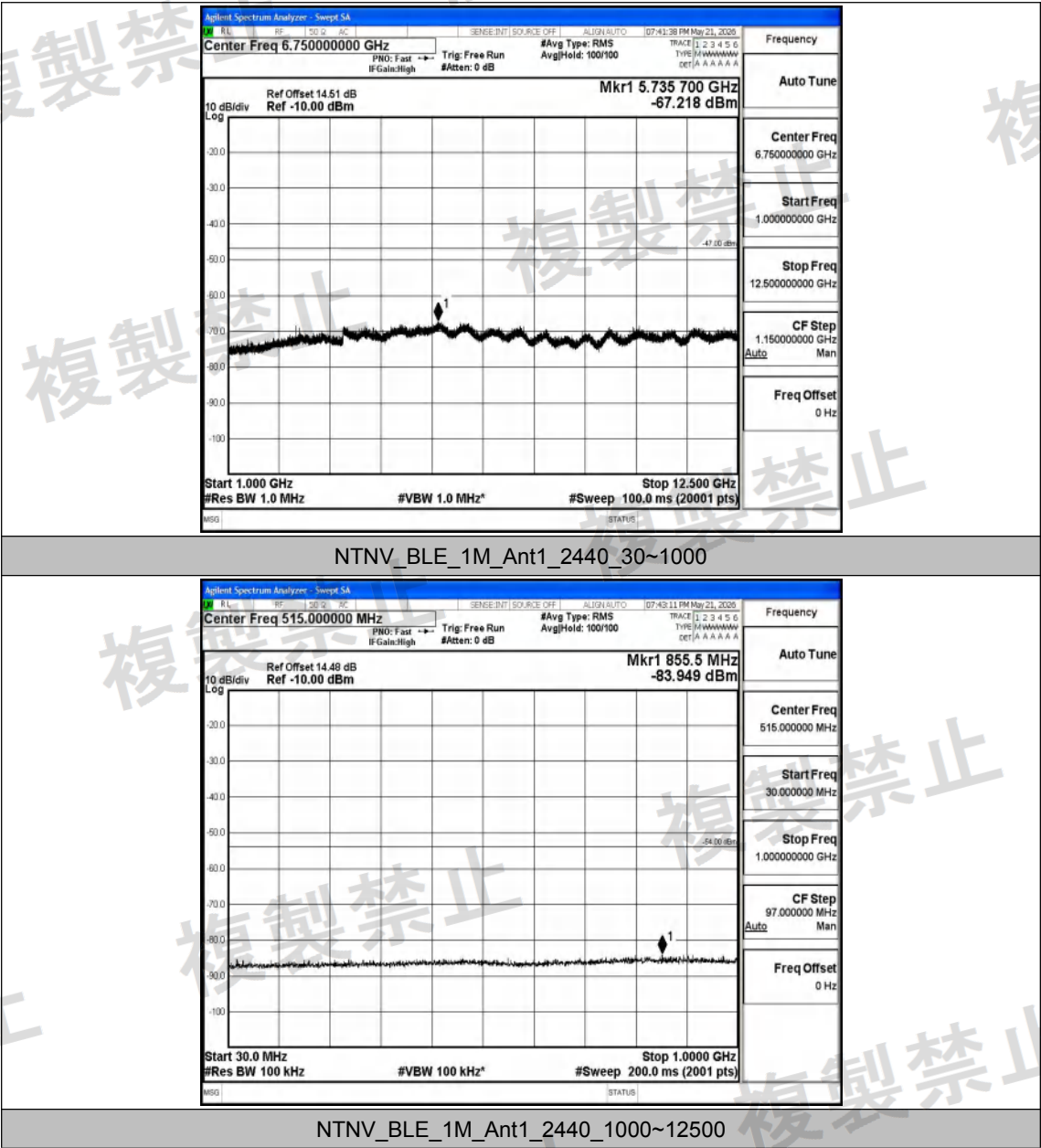
B.6 Spurious Emission of RX

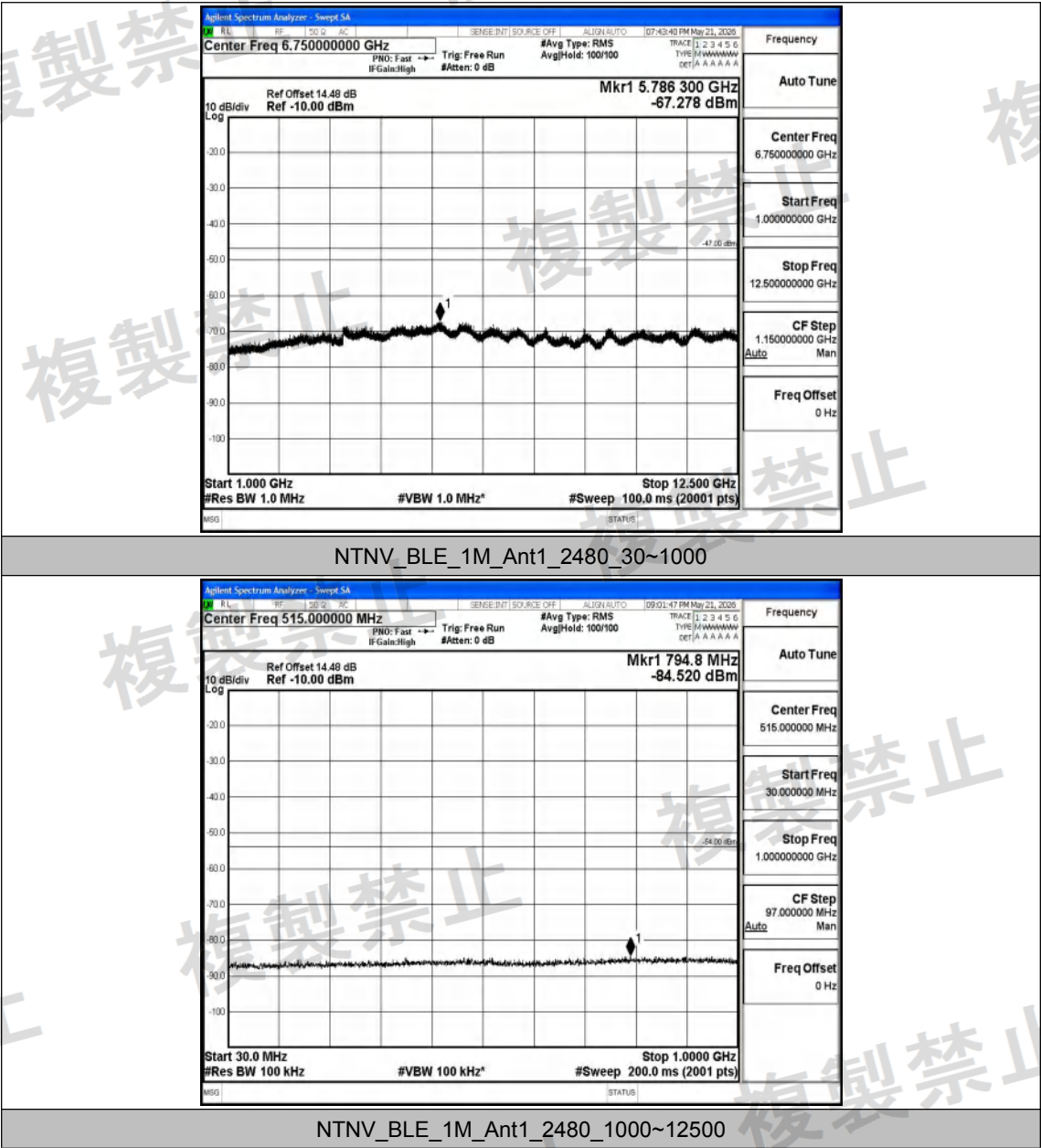
Test Result

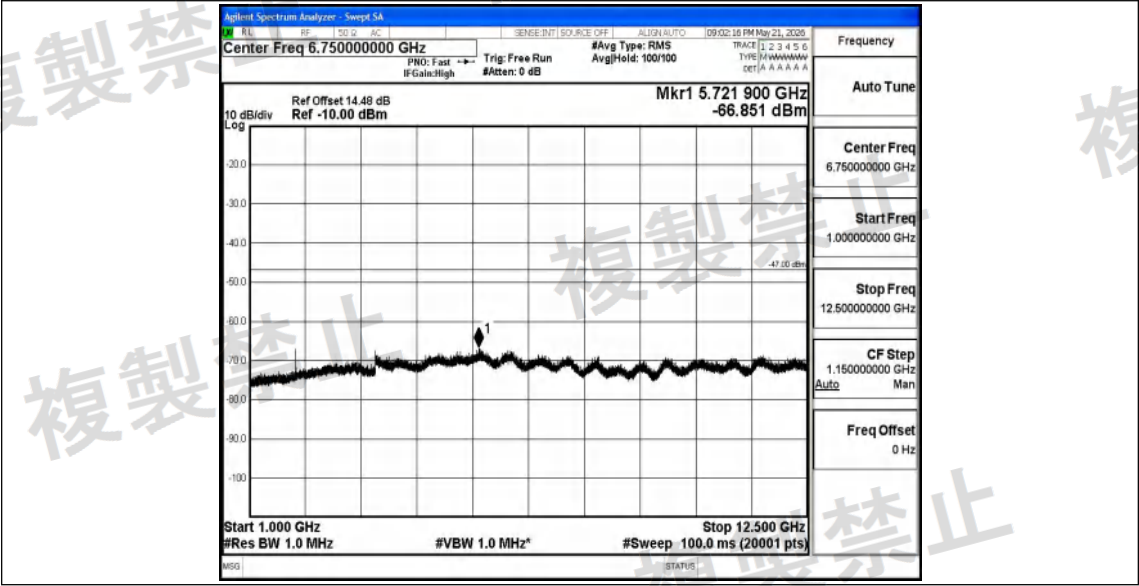
TestCondition	TestMode	Antenna	Freq(MHz)	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	-84.14	≤-54	0.00385	≤4	PASS
				1000~12500	-67.22	≤-47	0.18967	≤20	PASS
			2440	30~1000	-83.95	≤-54	0.00403	≤4	PASS
				1000~12500	-67.28	≤-47	0.18707	≤20	PASS
			2480	30~1000	-84.52	≤-54	0.00353	≤4	PASS
				1000~12500	-66.85	≤-47	0.20654	≤20	PASS

Test Graphs









Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant2	2402	30~1000	-83.94	≤-54	0.00404	≤4	PASS
				1000~12500	-67.41	≤-47	0.18155	≤20	PASS
			2440	30~1000	-83.26	≤-54	0.00472	≤4	PASS
				1000~12500	-67.02	≤-47	0.19861	≤20	PASS
			2480	30~1000	-83.51	≤-54	0.00446	≤4	PASS
				1000~12500	-66.01	≤-47	0.25061	≤20	PASS

Test Graphs

