

Appendix A for 2.4G Test Data

Product Name: 2.4G remote control

Test Model: HLCF-550

Environmental Conditions

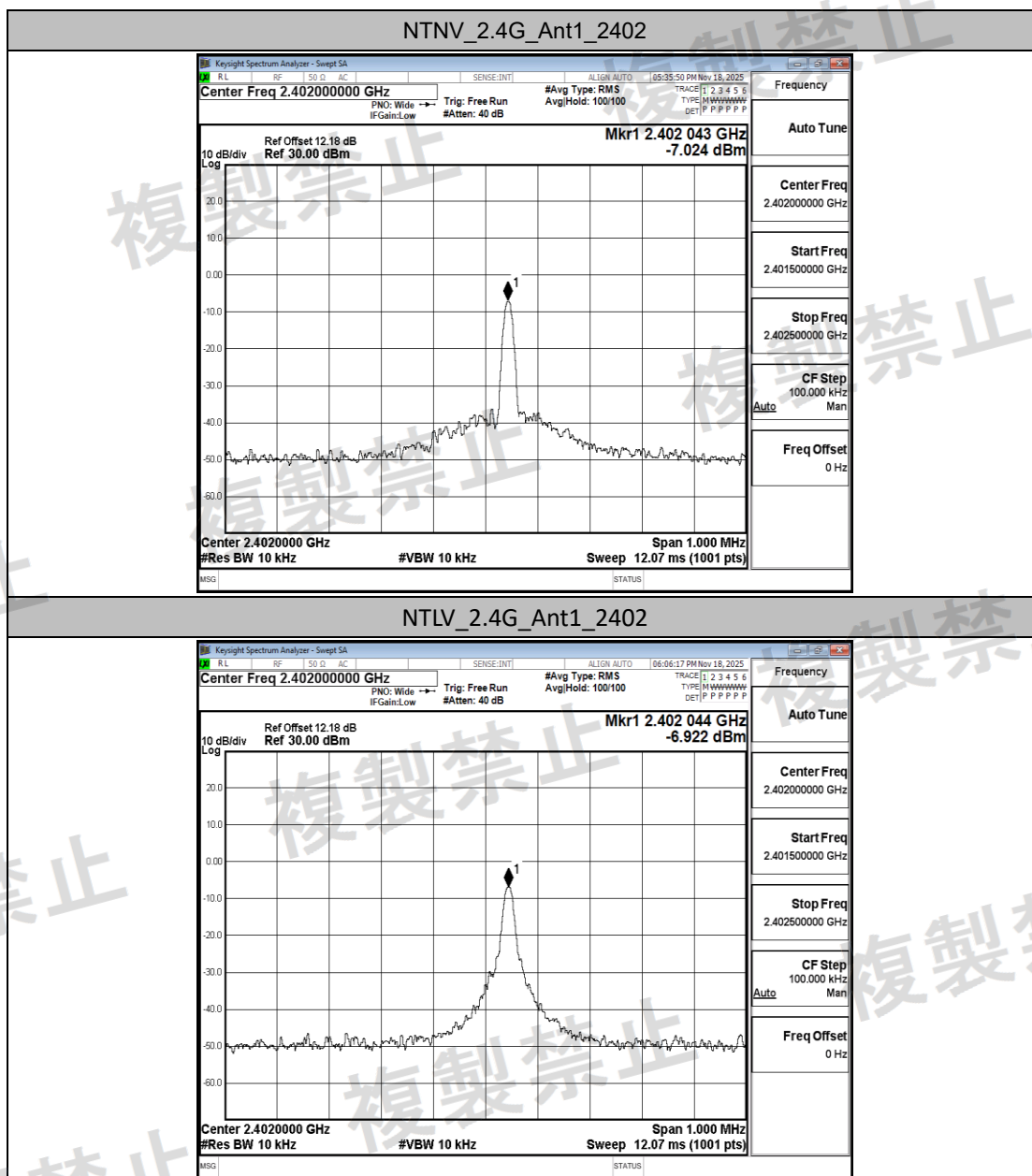
Temperature:	24.8° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Suichao Lai
Supervised by:	Fengliu Tang

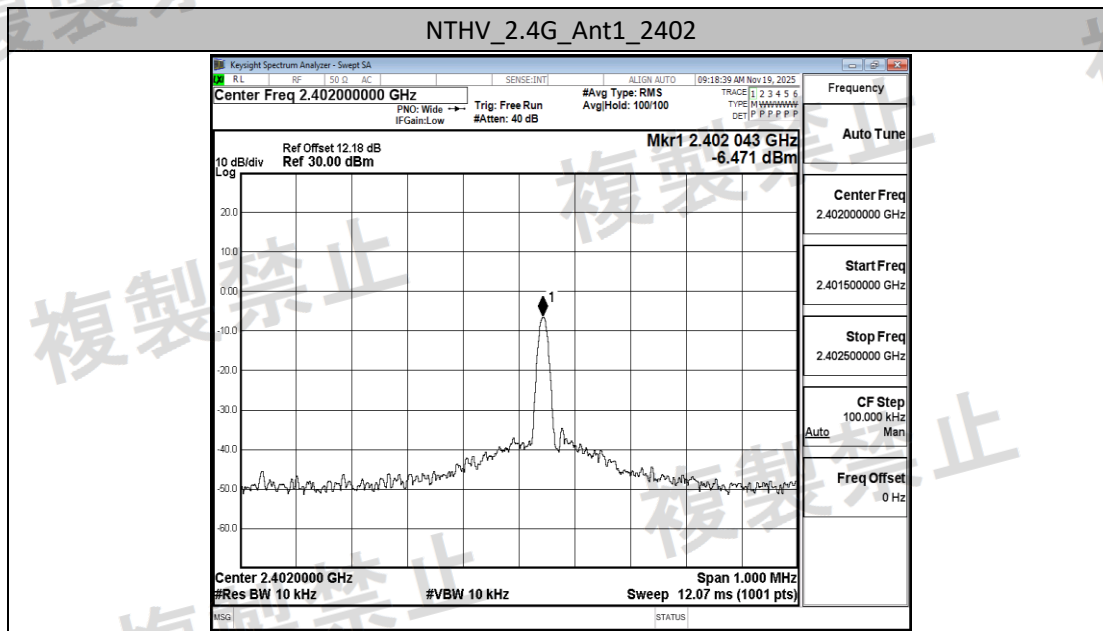
A.1 Frequency Error

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	2.4G	Ant1	2402	17.90175	±50	PASS
NTLV	2.4G	Ant1	2402	18.31807	±50	PASS
NTHV	2.4G	Ant1	2402	17.90175	±50	PASS

Test Graphs





A.2 Antenna Power

Test Result

Antenna Power							
TestCondition	TestMode	Antenna	Freq(M Hz)	Result(dBm)	Result(mW)	Limit(mW)	Verdict
NTNV	2.4G	Ant1	2402	-8.49	0.1416	≤10	PASS
NTLV	2.4G	Ant1	2402	-8.35	0.1462	≤10	PASS
NTHV	2.4G	Ant1	2402	-7.78	0.1667	≤10	PASS

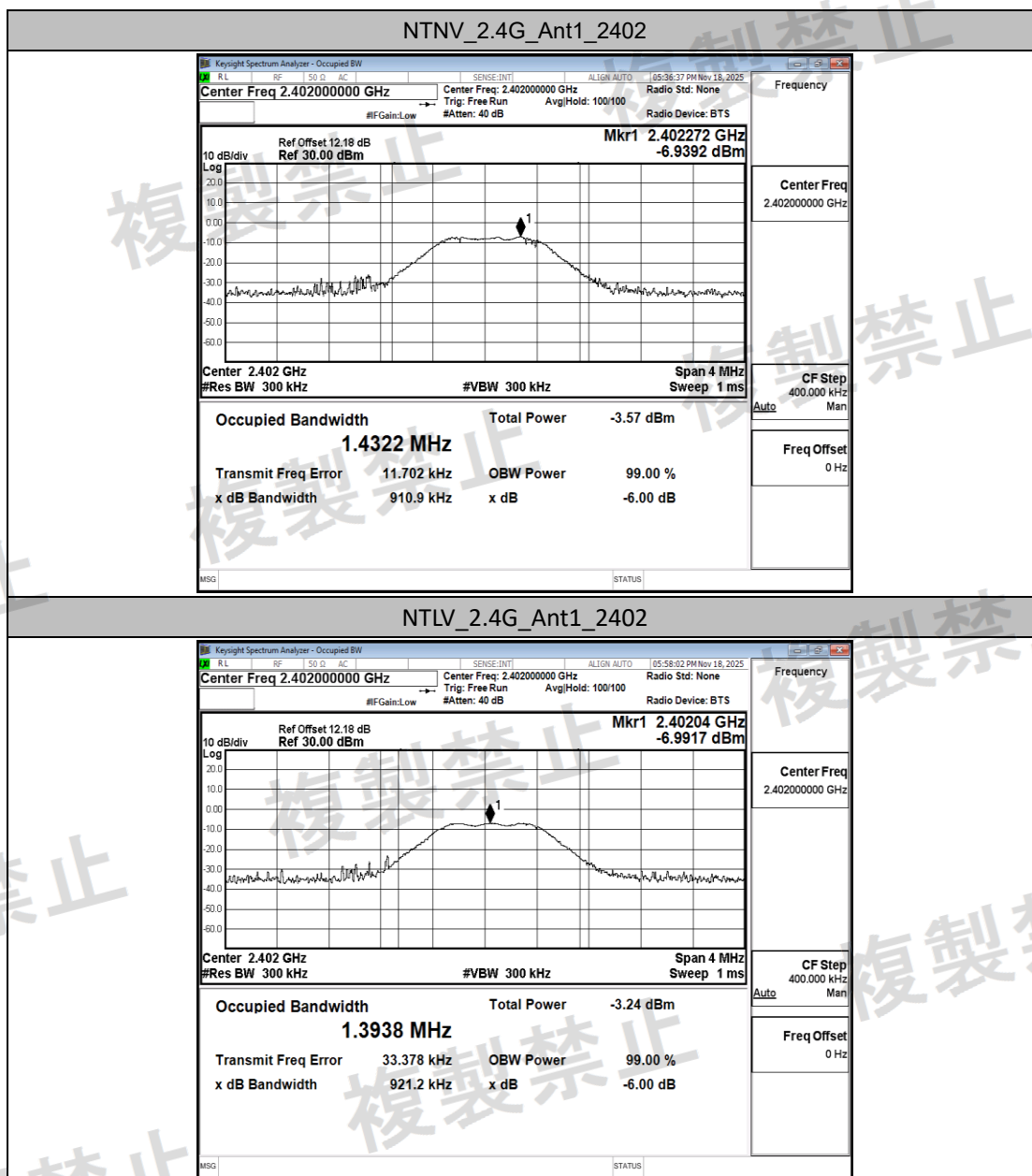
Tolerance								
Test Condition	Test Mode	Antenna	Frequency[MHz]	Power (mW)	RatedPower (mW)	Result (%)	Limit (%)	Verdict
NTNV	2.4G	Ant1	2402	0.1416	0.2	-29.20	+20	PASS
NTLV	2.4G	Ant1	2402	0.1462	0.2	-26.90	+20	PASS
NTHV	2.4G	Ant1	2402	0.1667	0.2	-16.65	+20	PASS

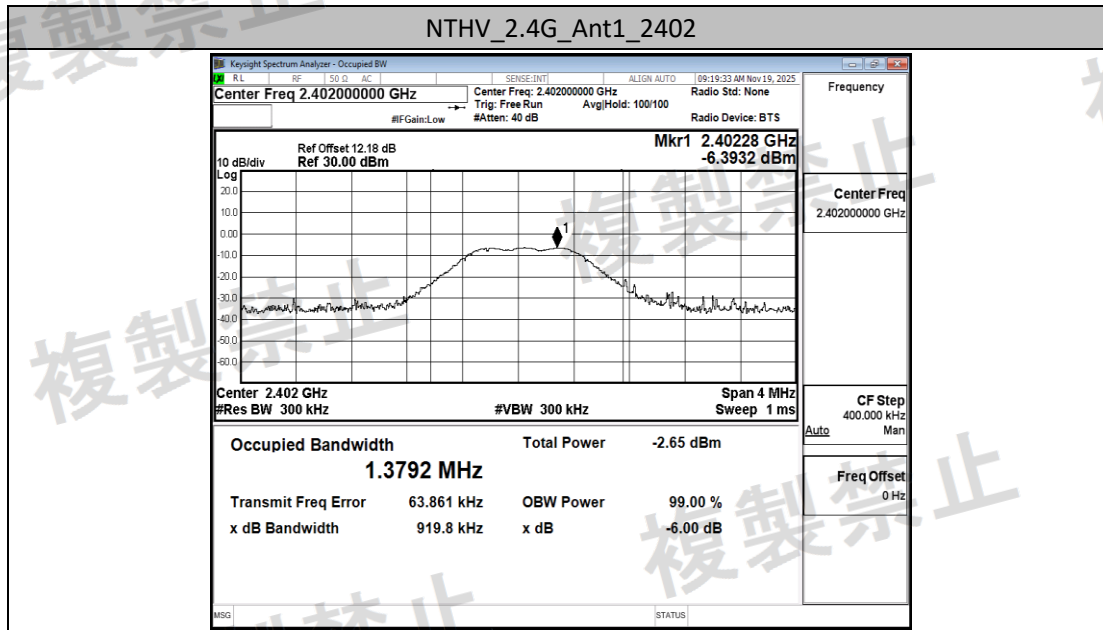
A.3 Occupied Bandwidth

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	2.4G	Ant1	2402	1.432	≤26	PASS
NTLV	2.4G	Ant1	2402	1.394	≤26	PASS
NTHV	2.4G	Ant1	2402	1.379	≤26	PASS

Test Graphs



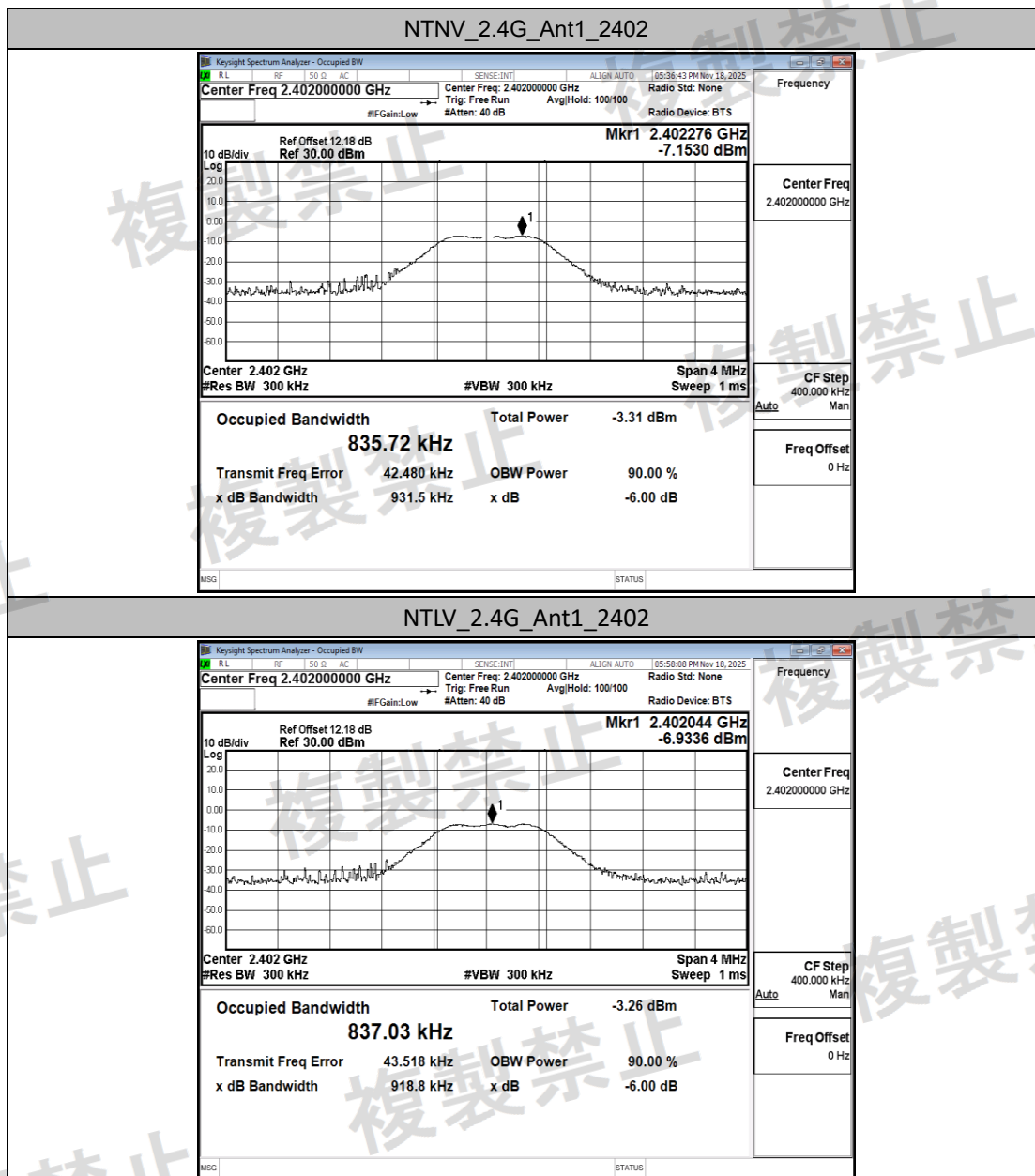


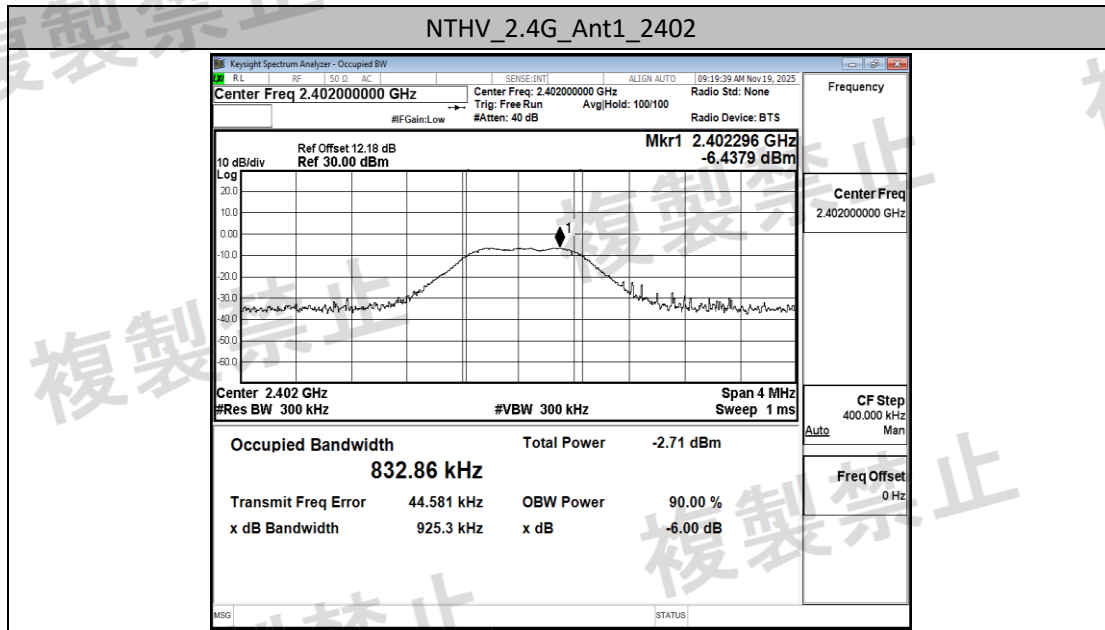
A.4 Spread Bandwidth

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	2.4G	Ant1	2402	0.836	≥0.5	PASS
NTLV	2.4G	Ant1	2402	0.837	≥0.5	PASS
NTHV	2.4G	Ant1	2402	0.833	≥0.5	PASS

Test Graphs



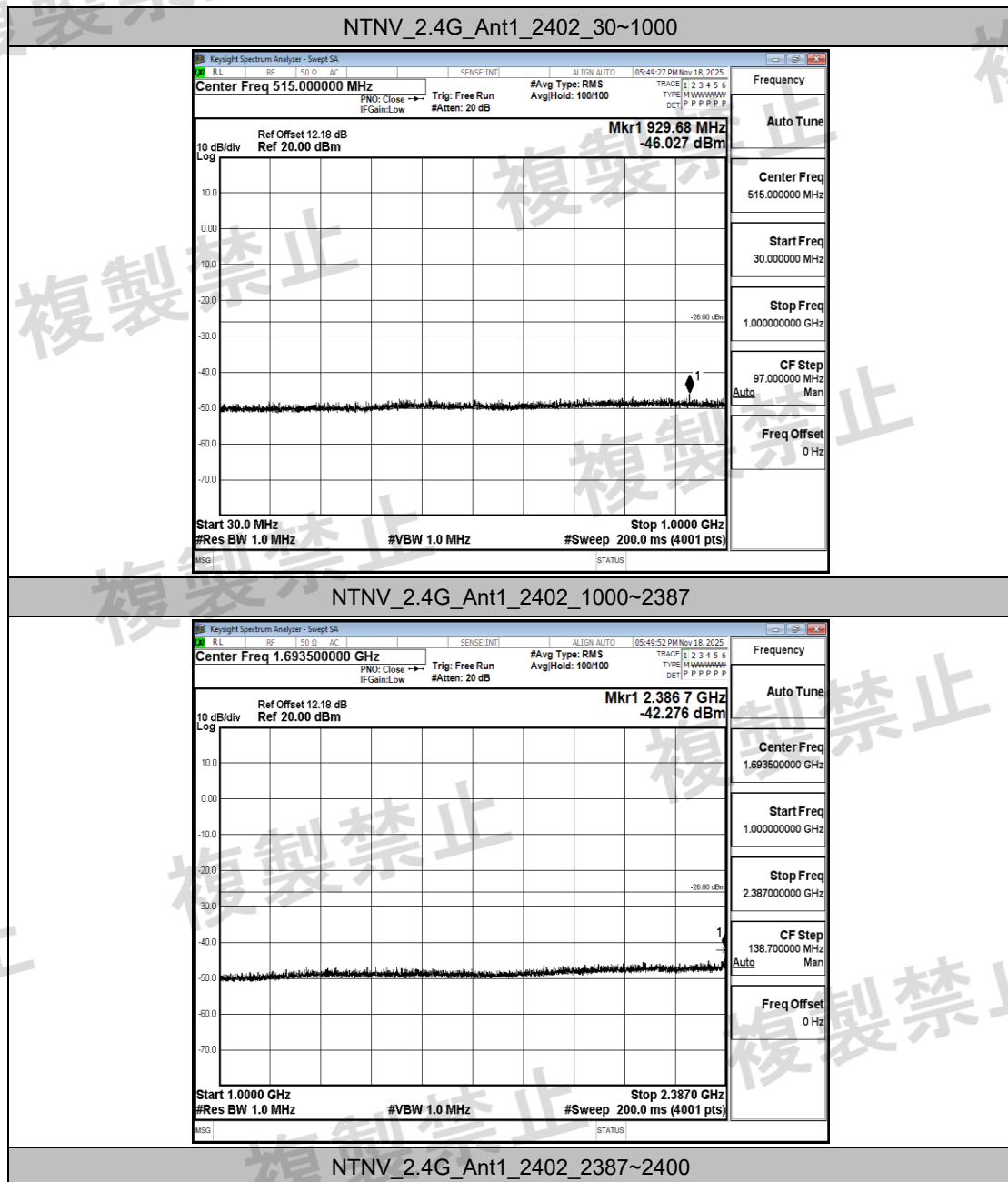


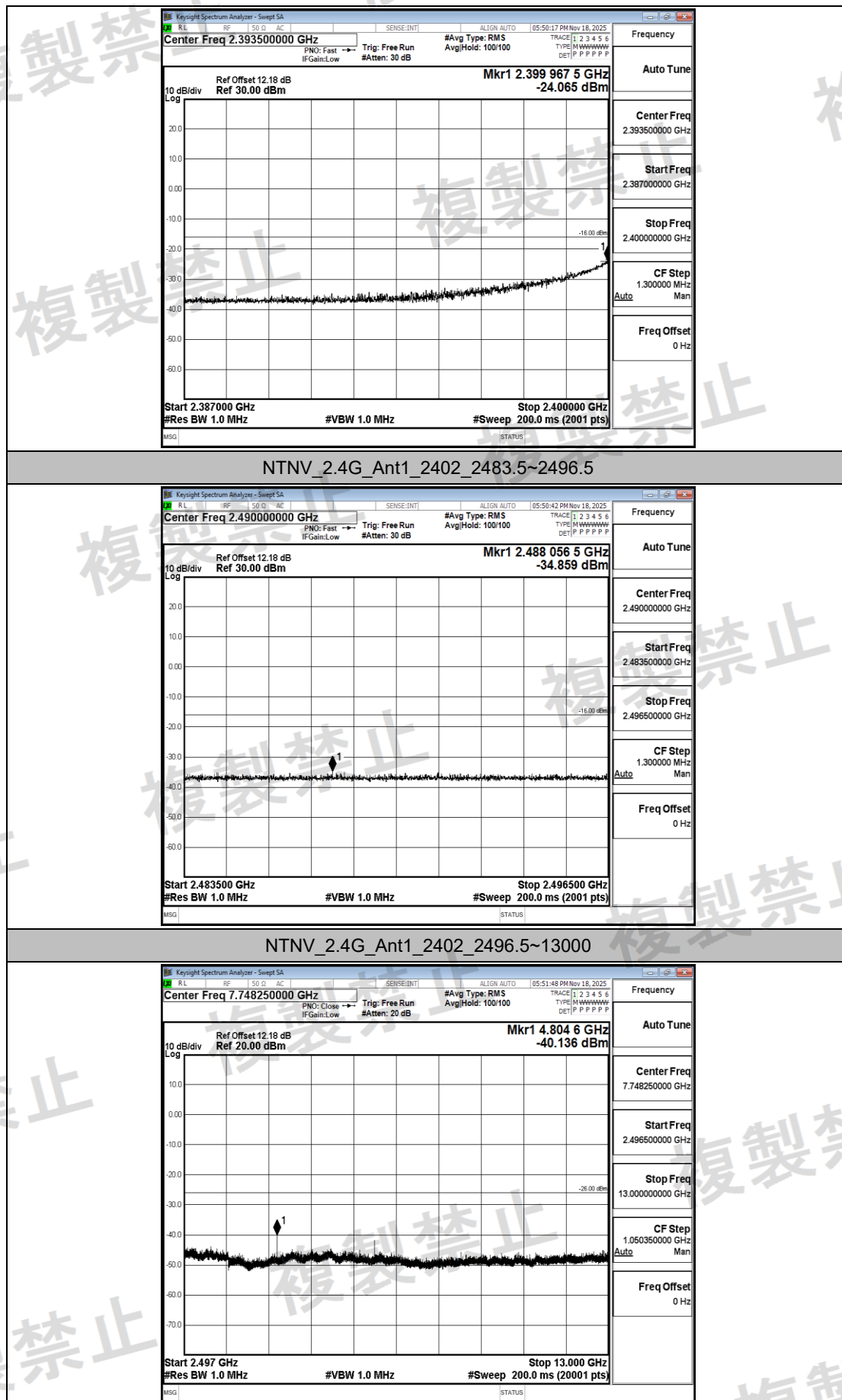
A.5 Spurious Emission of TX

Test Result

TestCondition	TestMode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	2.4G	Ant1	2402	30~1000	929.68	-46.03	≤-26	0.02495	≤2.5	PASS
				1000~2387	2386.65	-42.28	≤-26	0.05916	≤2.5	PASS
				2387~2400	2399.97	-24.07	≤-16	3.91742	≤25	PASS
				2483.5~2496.5	2488.06	-34.86	≤-16	0.32659	≤25	PASS
				2496.5~13000	4804.64	-40.14	≤-26	0.09683	≤2.5	PASS
NTLV	2.4G	Ant1	2402	30~1000	927.01	-46.47	≤-26	0.02254	≤2.5	PASS
				1000~2387	2385.96	-43.28	≤-26	0.04699	≤2.5	PASS
				2387~2400	2399.97	-23.88	≤-16	4.09261	≤25	PASS
				2483.5~2496.5	2495.30	-34.38	≤-16	0.36475	≤25	PASS
				2496.5~13000	4803.59	-40.05	≤-26	0.09886	≤2.5	PASS
NTHV	2.4G	Ant1	2402	30~1000	913.43	-46.31	≤-26	0.02339	≤2.5	PASS
				1000~2387	2382.49	-42.73	≤-26	0.05333	≤2.5	PASS
				2387~2400	2399.88	-26.09	≤-16	2.46037	≤25	PASS
				2483.5~2496.5	2487.57	-34.71	≤-16	0.33806	≤25	PASS
				2496.5~13000	4804.64	-39.70	≤-26	0.10715	≤2.5	PASS

Test Graphs

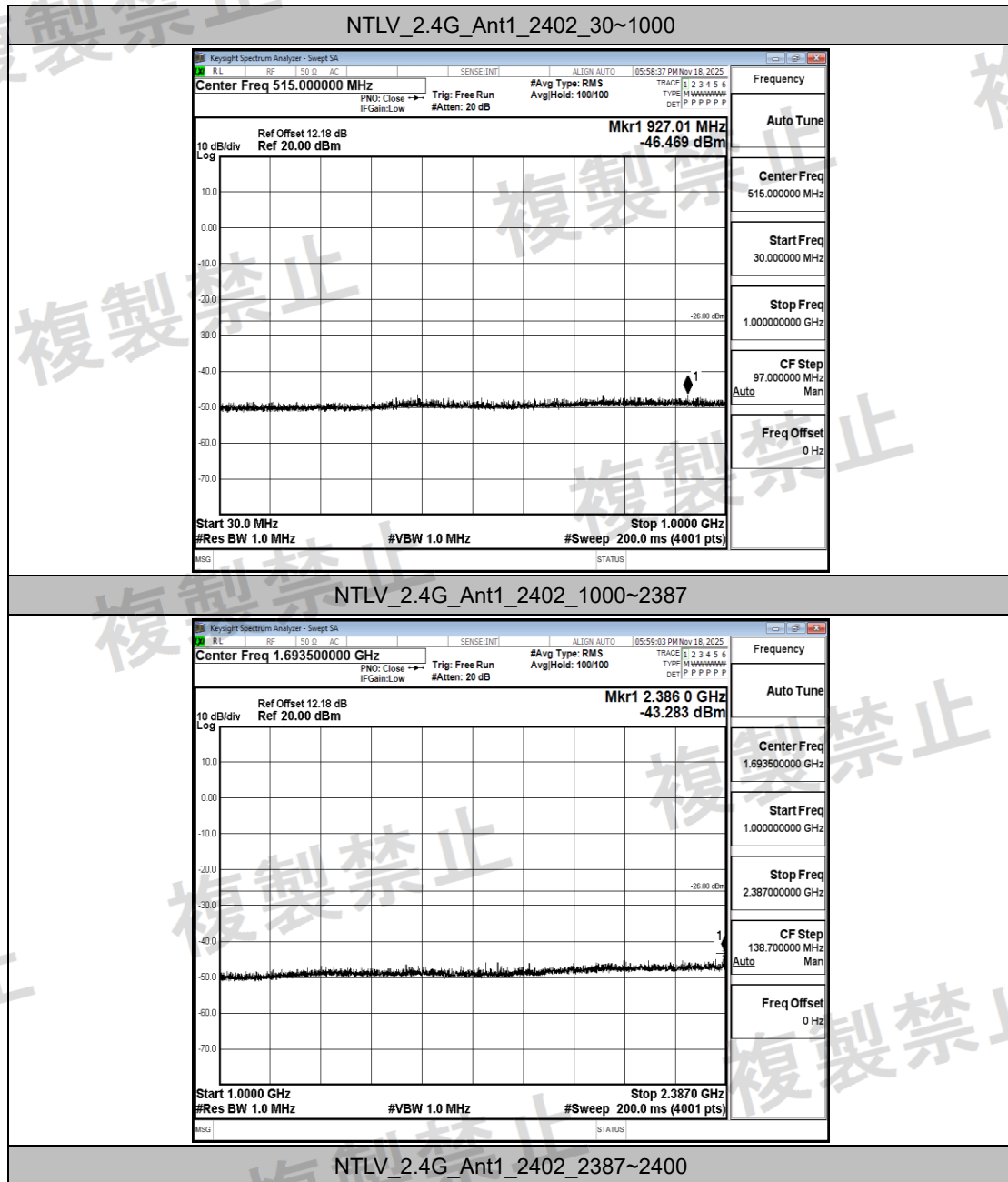


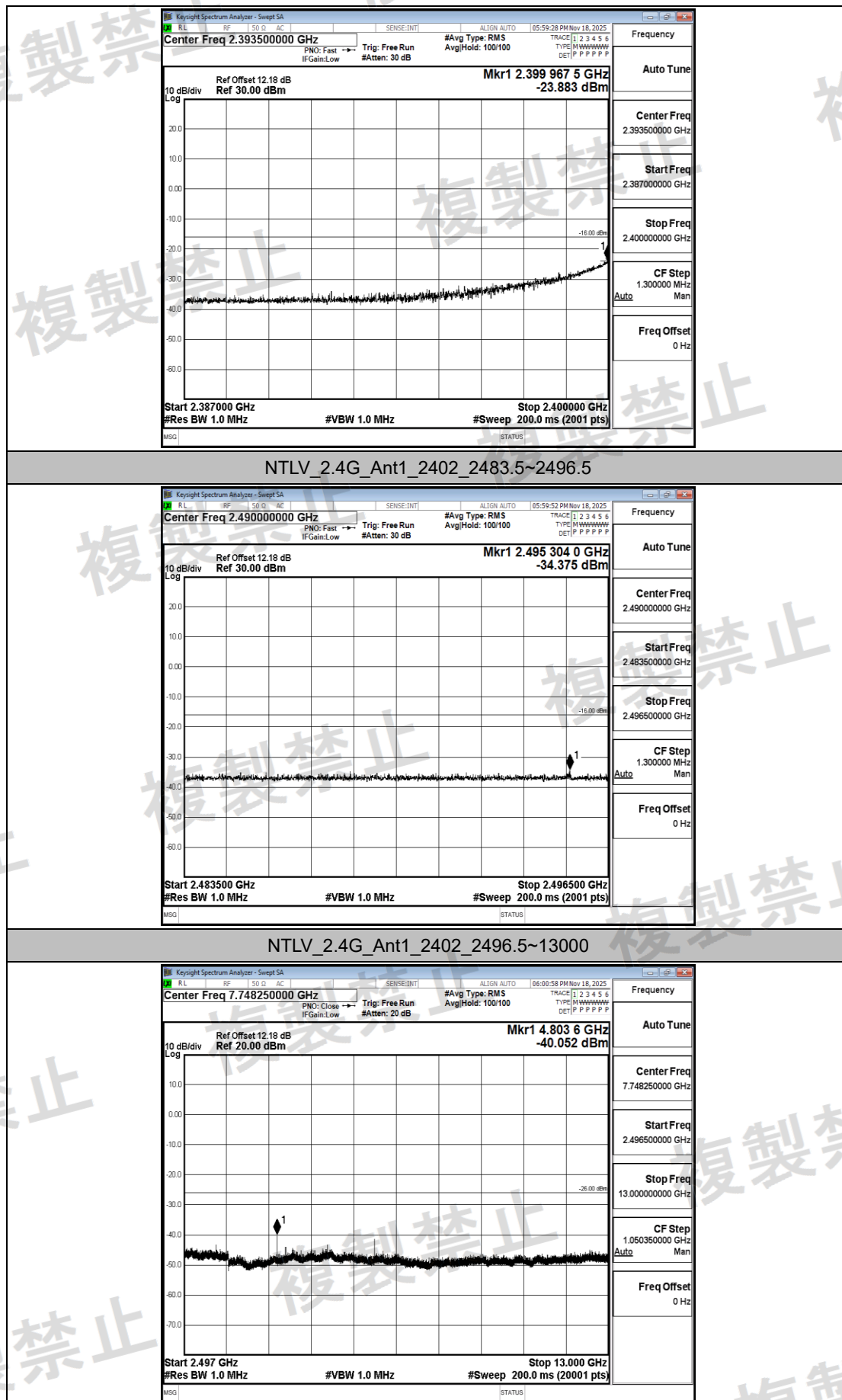


Guangzhou LCS Compliance Testing Laboratory Ltd.

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

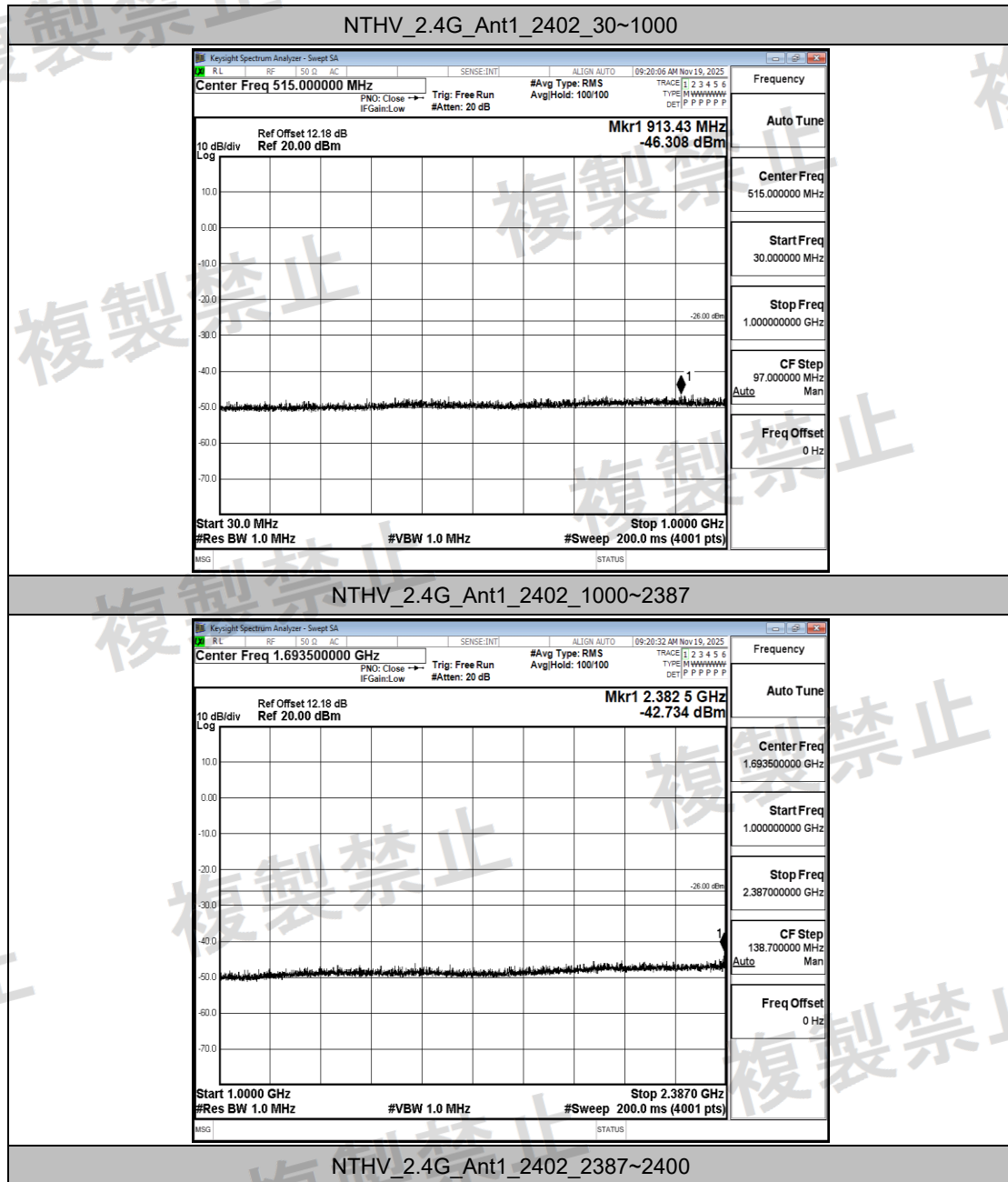


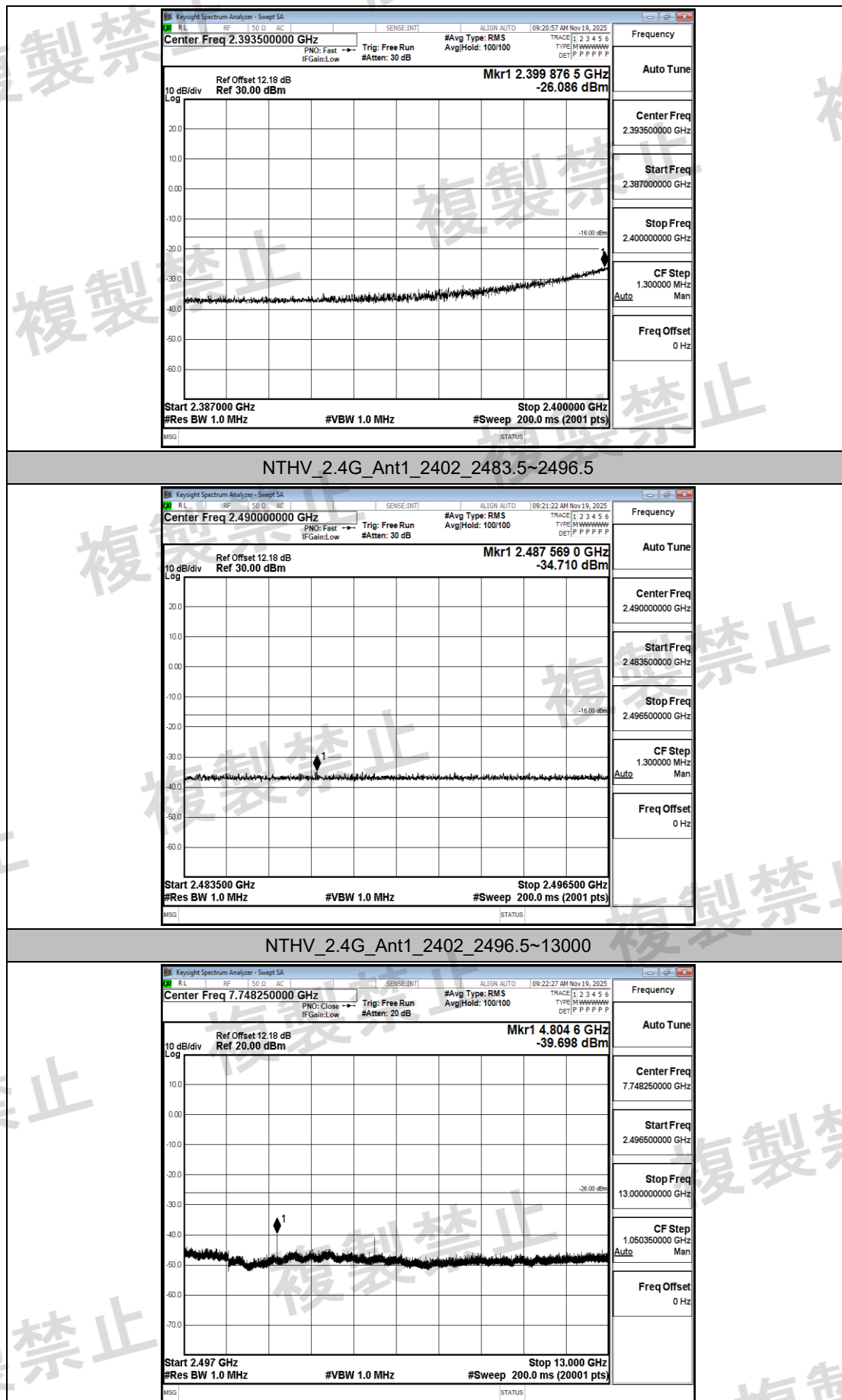


Guangzhou LCS Compliance Testing Laboratory Ltd.

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





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

A.6 Spurious Emission of RX

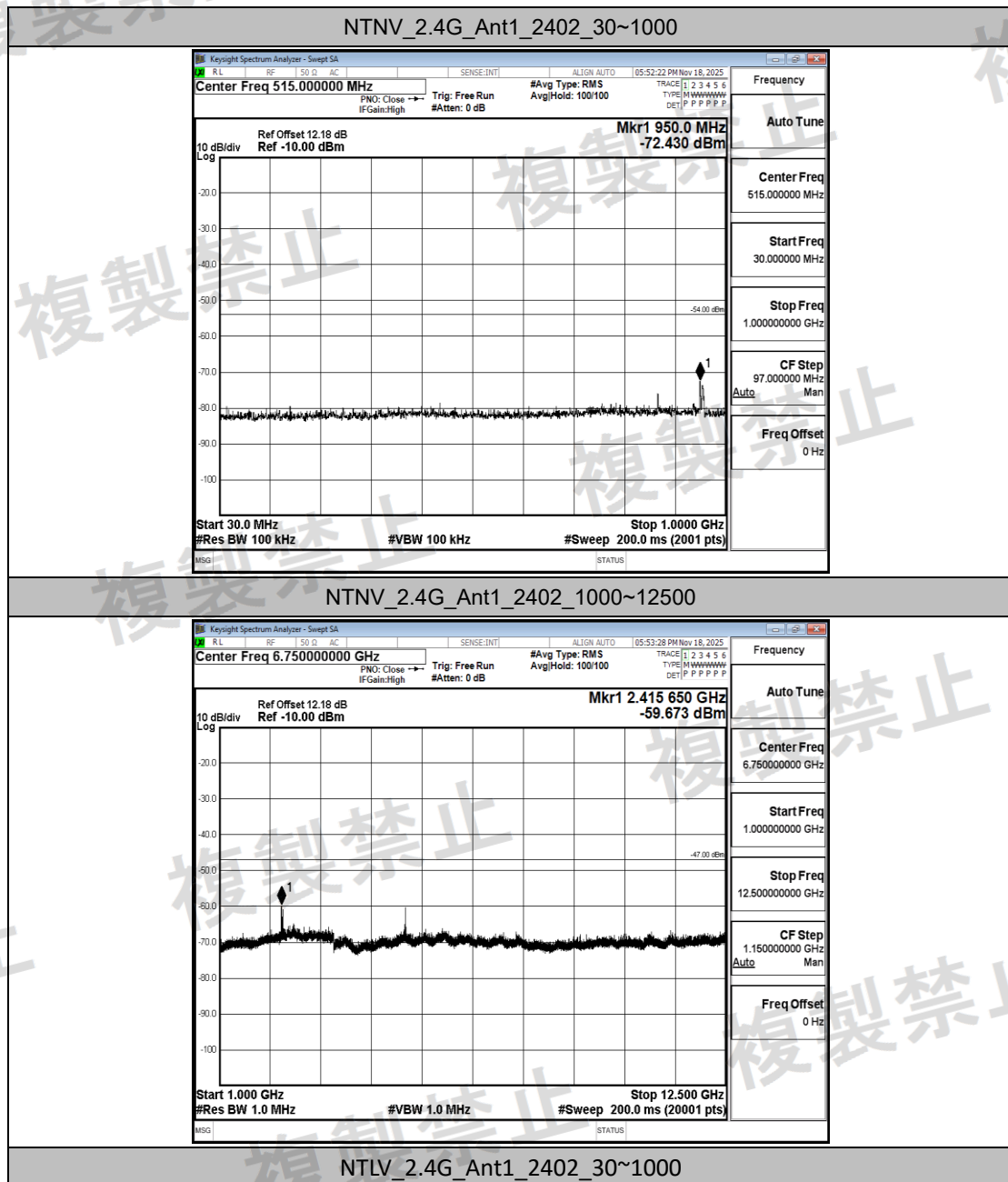
Test Result

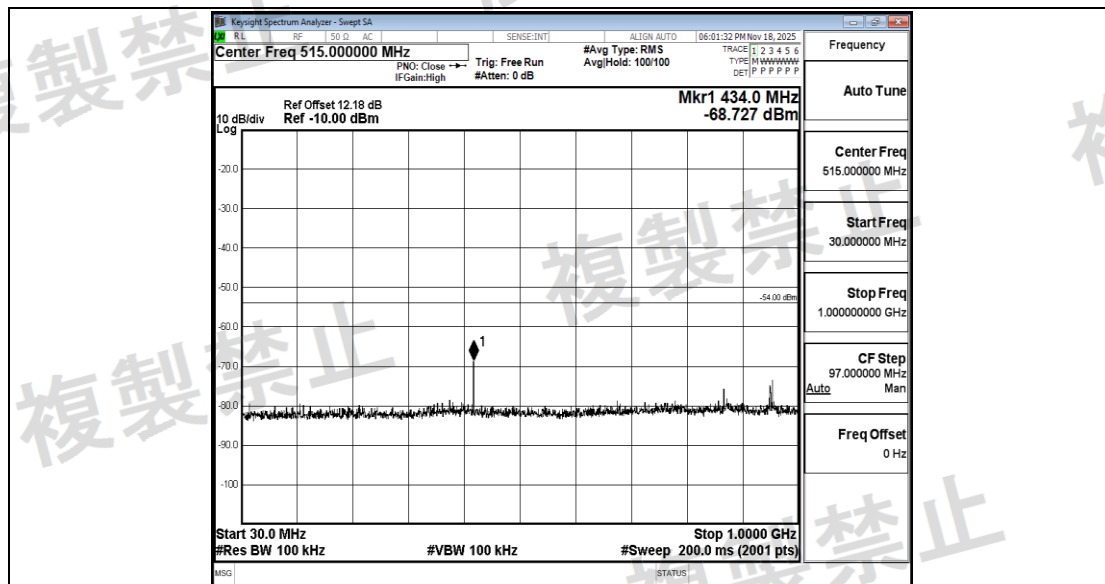
TestCondition	TestMode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	2.4G	Ant1	2402	30~1000	950.05	-72.43	≤-54	0.05715	≤4	PASS
				1000~12500	2415.65	-59.67	≤-47	1.07895	≤20	PASS
NTLV	2.4G	Ant1	2402	30~1000	434.01	-68.73	≤-54	0.13397	≤4	PASS
				1000~12500	1775.1	-42.96	≤-47	50.58247	≤20	See table below
NTHV	2.4G	Ant1	2402	30~1000	899.12	-64.20	≤-54	0.38019	≤4	PASS
				1000~12500	2439.8	-54.34	≤-47	3.68129	≤20	See table below

Test Result Step2

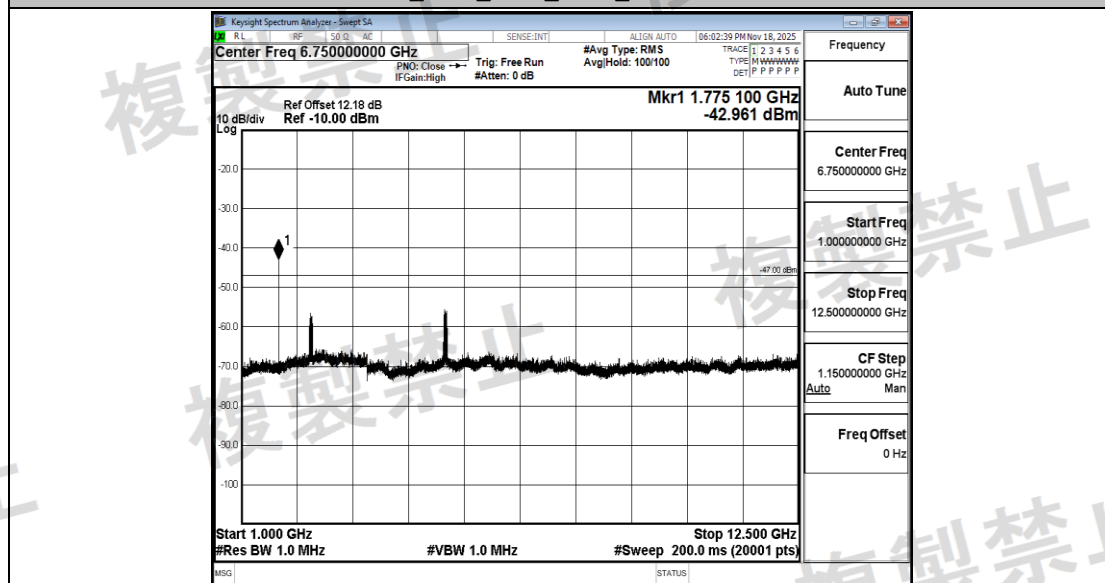
TestCondition	TestMode	Antenna	Freq(M Hz)	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTLV	2.4G	Ant1	2402	1775.10	-80.06	≤-47	0.00986	≤20	PASS
				2433.48	-77.44	≤-47	0.01803	≤20	PASS
				5195.20	-59.12	≤-47	1.22462	≤20	PASS
				5238.33	-68.30	≤-47	0.14791	≤20	PASS
NTHV	2.4G	Ant1	2402	2413.35	-77.91	≤-47	0.01618	≤20	PASS
				2439.80	-75.85	≤-47	0.02600	≤20	PASS

Test Graphs

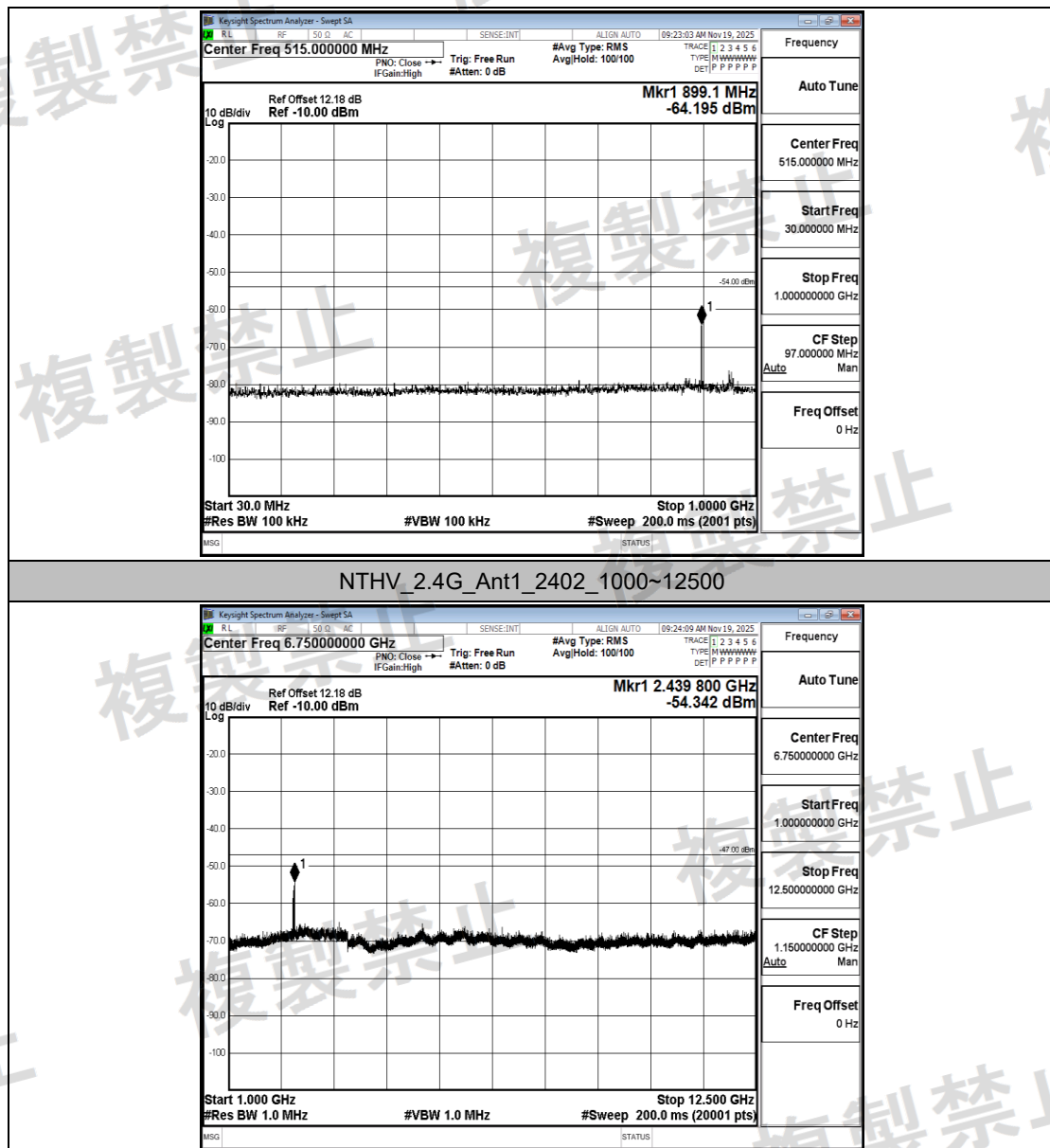




NTLV_2.4G_Ant1_2402_1000~12500



NTHV_2.4G_Ant1_2402_30~1000



Test Graphs_Step2

