



Appendix A for BT Test Data

Product Name: Tea Pro Magnetic Headphone Amplifier

Test Model: K1017

Environmental Conditions

Temperature:	22.4° C
Relative Humidity:	53.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Can Kun
Supervised by:	Nick Peng



Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity



A.1 Frequency_Error

Test Result

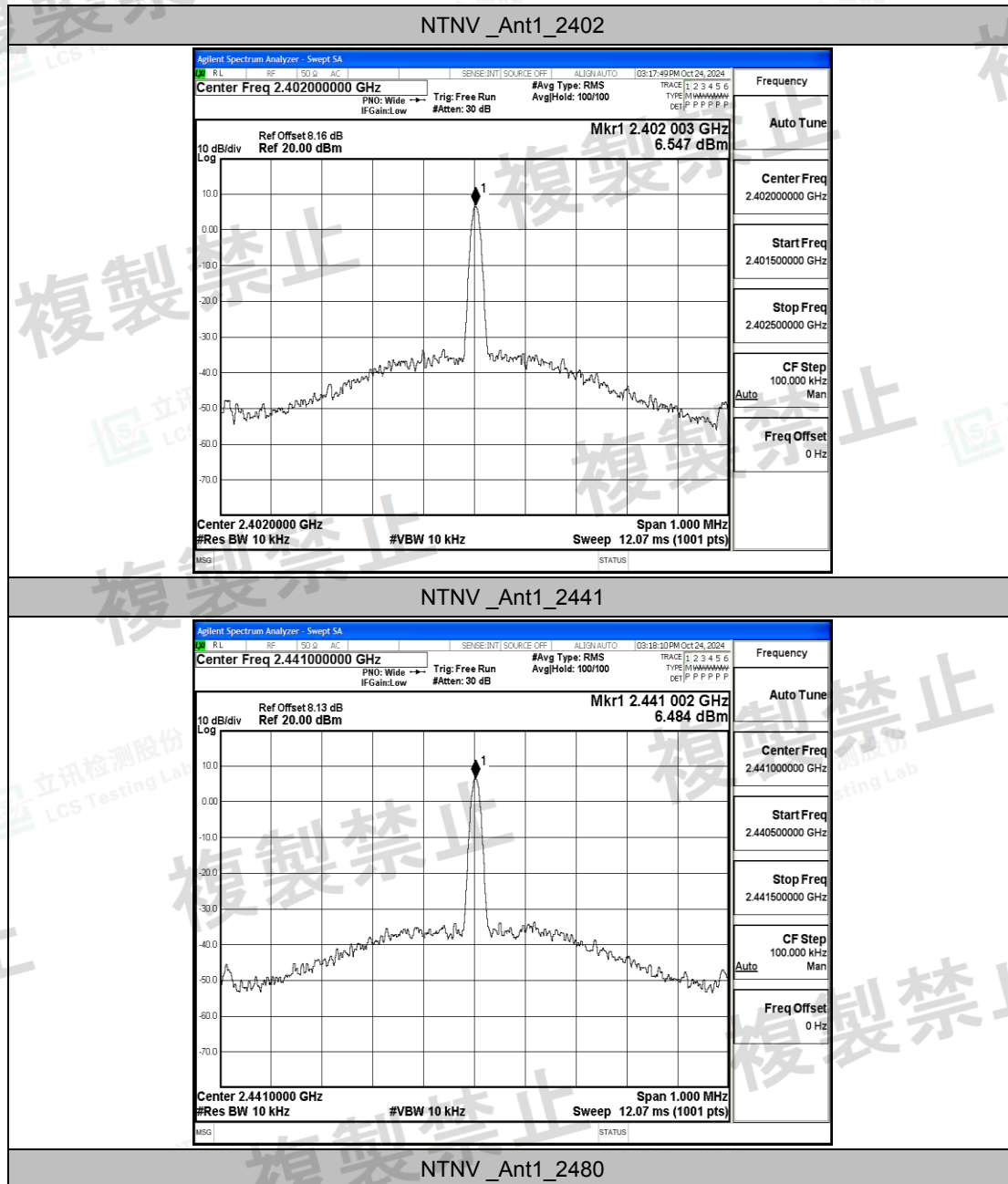
TestCondition	TestMode	Antenna	Frequency[MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	Frequency_Error	Ant1	2402	1.24896	±50	PASS
			2441	0.81934	±50	PASS
			2480	1.20968	±50	PASS



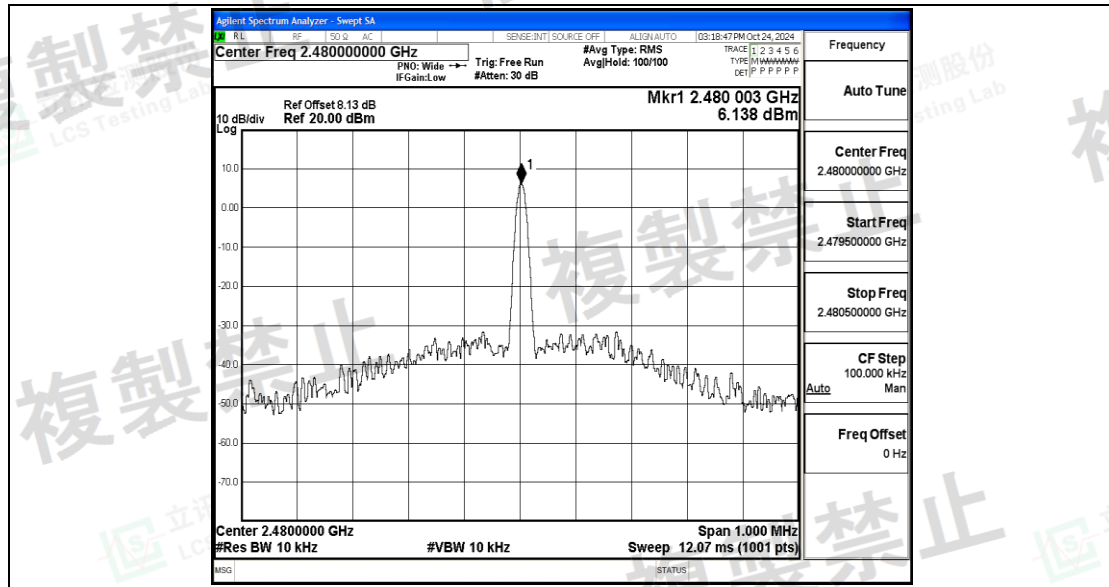
Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity



Test Graphs



Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity



Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity



A.2 Antenna Power

Test Result

Test Voltage				Normal Voltage			
Mode	Declared power	Average Result	Average Result	Result	Limit	Tolerance	Limit
	(mW/MHz)	(dBm)	(mW)	(mW/MHz)	(mW/MHz)	%	/
Hopping-Tx (1Mbps)	0.02	-1.39	0.73	0.013	3	-35.00	+20%
Hopping-Tx (2Mbps)	0.02	-0.62	0.87	0.016	3	-20.00	+20%
Hopping-Tx (3Mbps)	0.02	-3.62	0.43	0.008	3	-60.00	+20%
Conclusion: PASS							

Result power= Average value / (Duty Cycle * Spreading bandwidth)

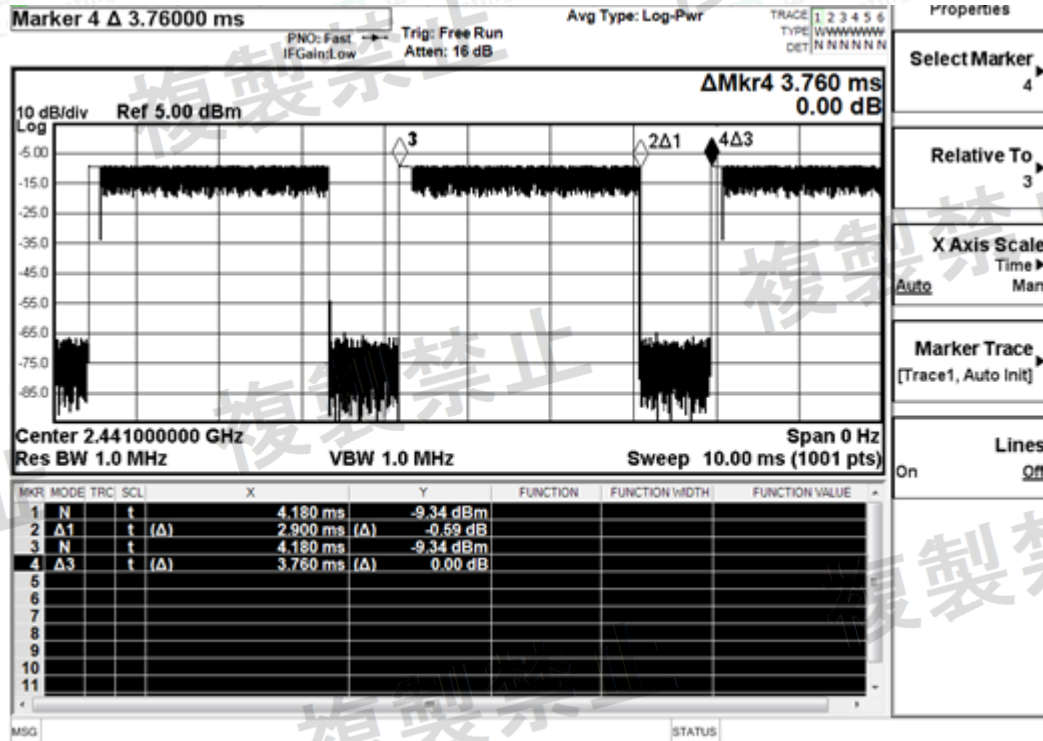
Antenna power Result = Measured Power / Spreading bandwidth

Spread Bandwidth (DH5) = 71.323MHz, Spread Bandwidth (2DH5) = 71.341MHz,

Spread Bandwidth (3DH5) =71.521MHz

Duty cycle=77.1%

Duty cycle= [Ton/ (Ton+Toff)]*100%=2.900/3.760*100%=77.1%





A.3 Occupied Bandwidth

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	DH5	Ant1	2402	0.870	≤83.5	PASS
			2441	0.872	≤83.5	PASS
			2480	0.865	≤83.5	PASS
	2DH5	Ant1	2402	1.189	≤83.5	PASS
			2441	1.187	≤83.5	PASS
			2480	1.189	≤83.5	PASS
	3DH5	Ant1	2402	1.192	≤83.5	PASS
			2441	1.194	≤83.5	PASS
			2480	1.192	≤83.5	PASS

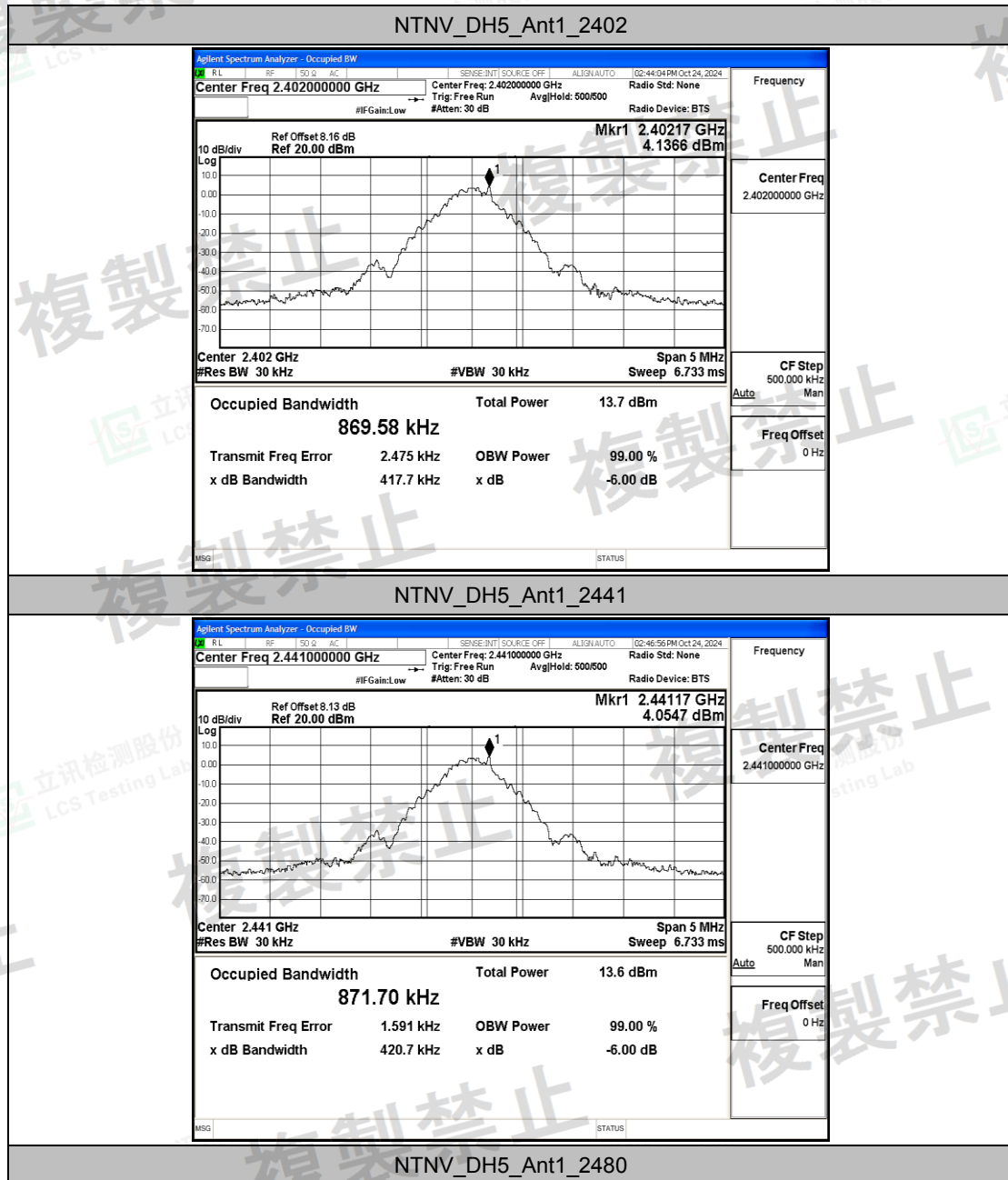
TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	DH5	Ant1	Hop	78.647	≤83.5	PASS
	2DH5	Ant1	Hop	78.813	≤83.5	PASS
	3DH5	Ant1	Hop	78.749	≤83.5	PASS



Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity



Test Graphs

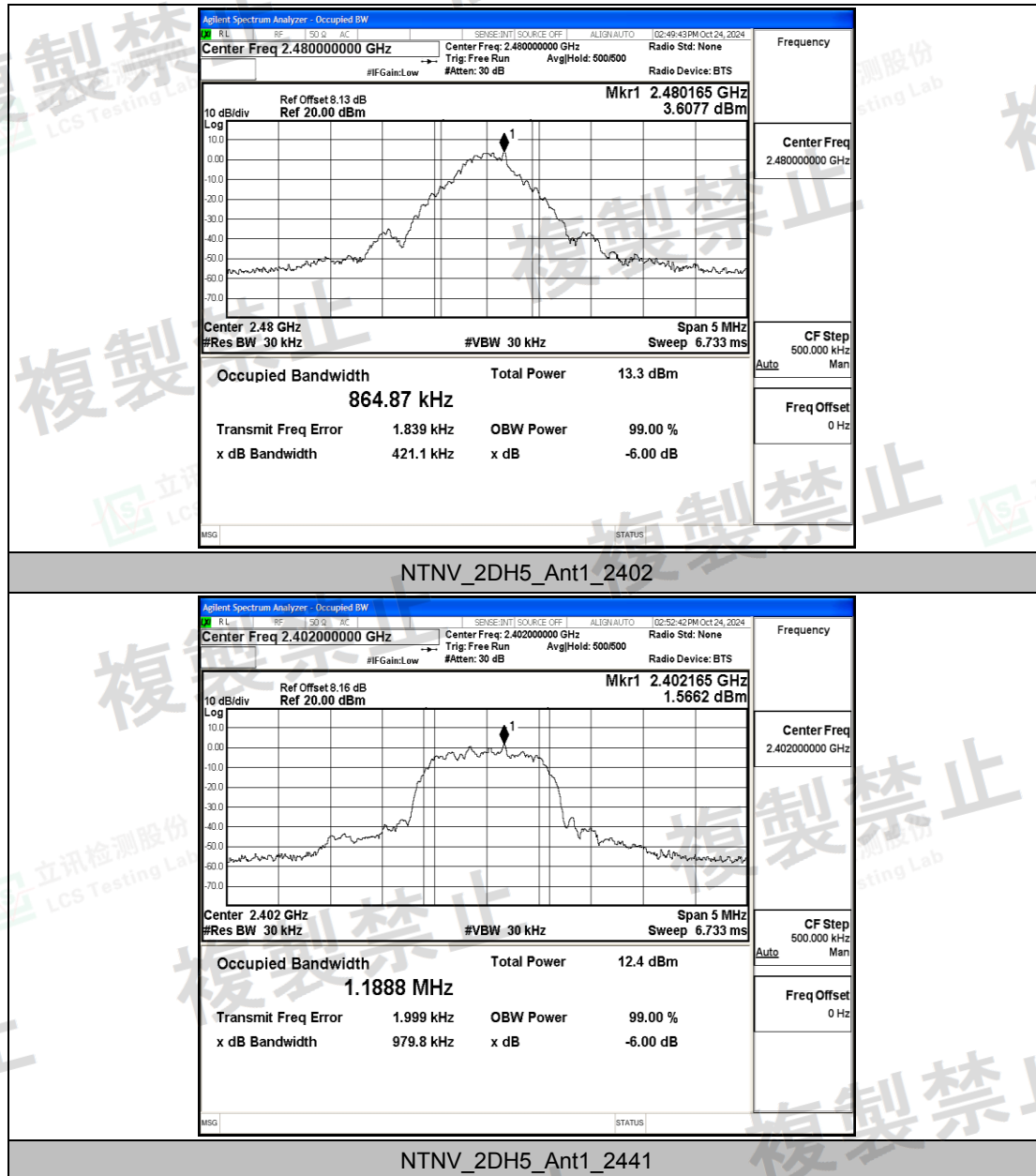


Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

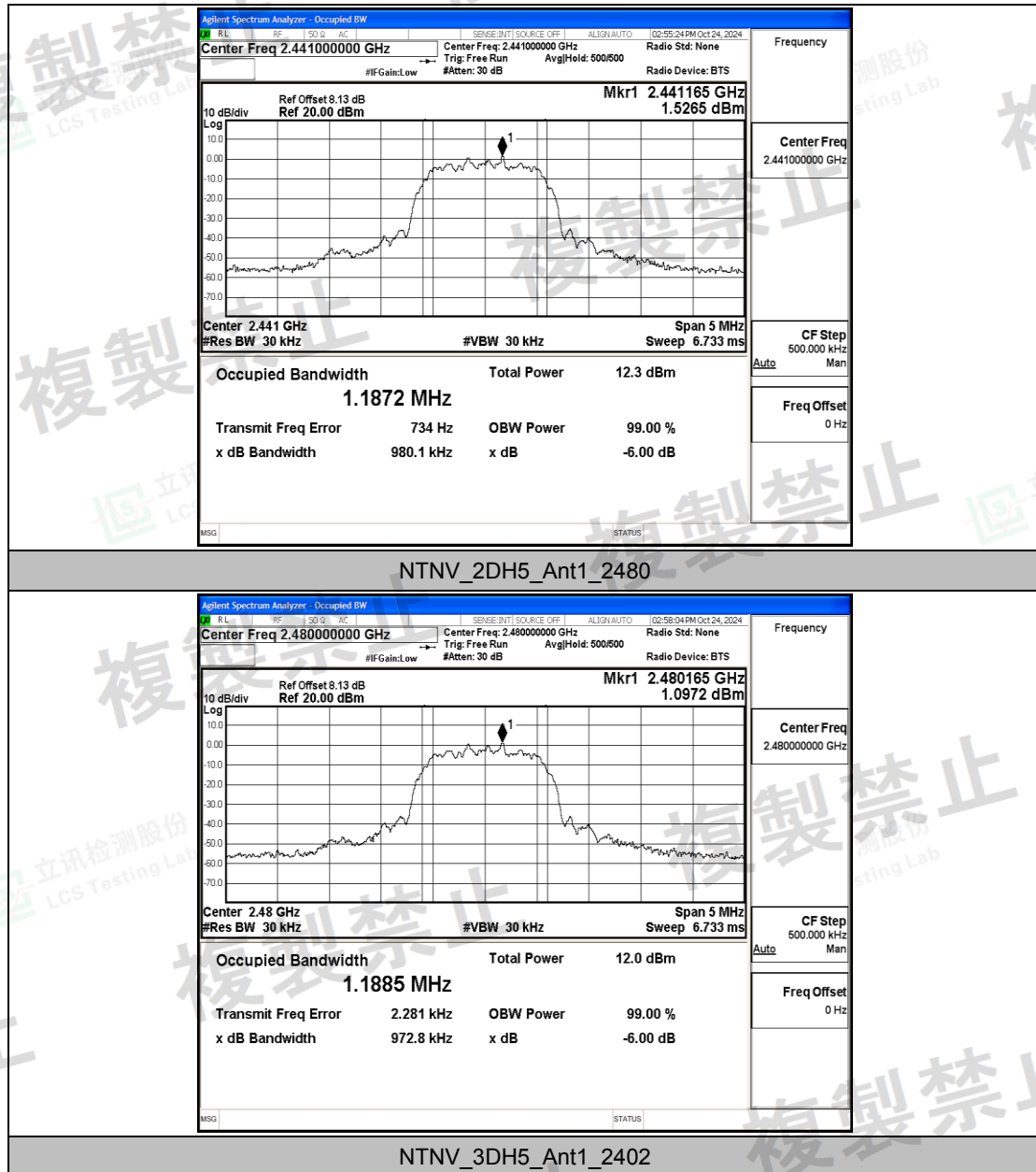


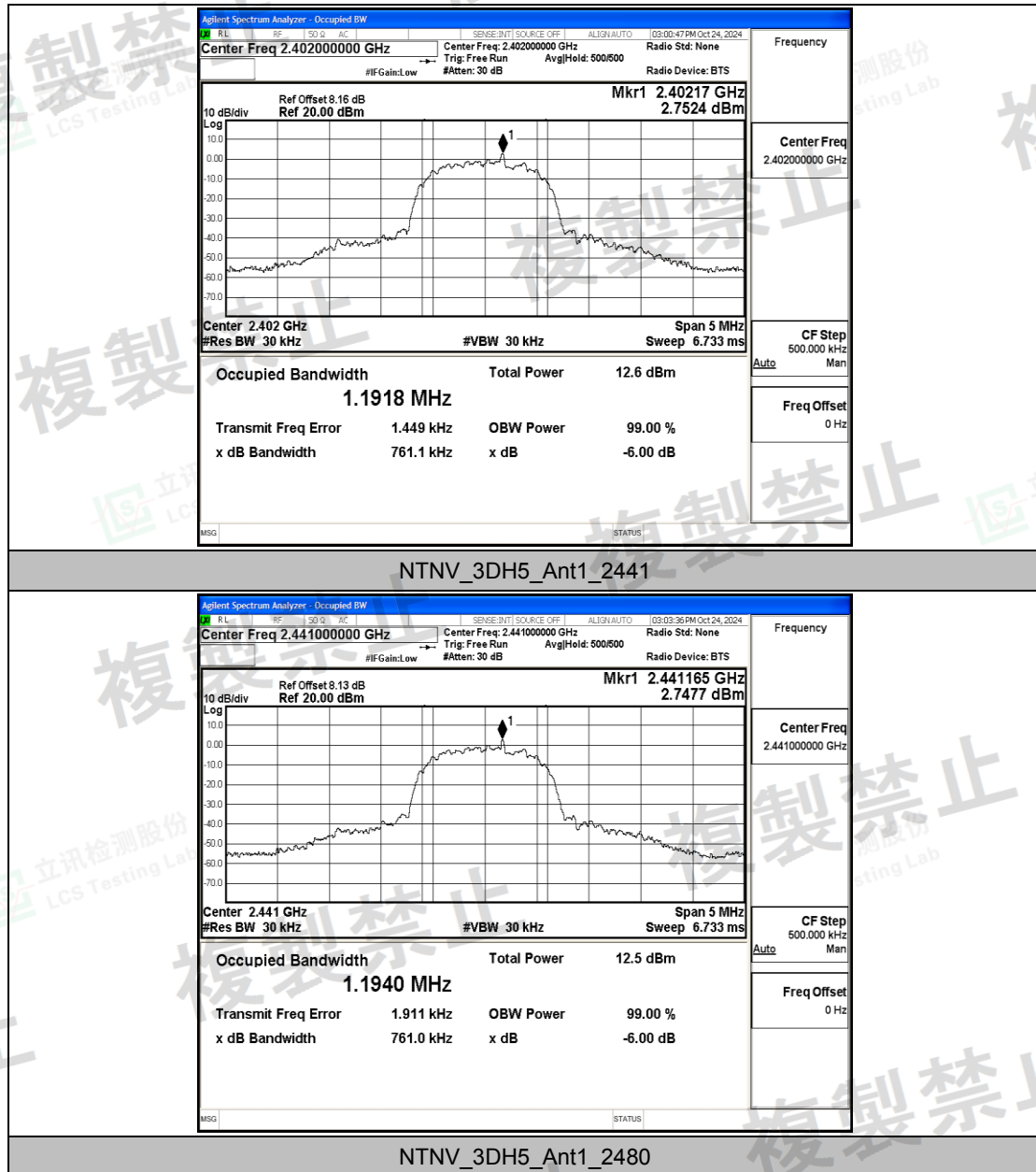
Shenzhen LCS Compliance Testing Laboratory Ltd.

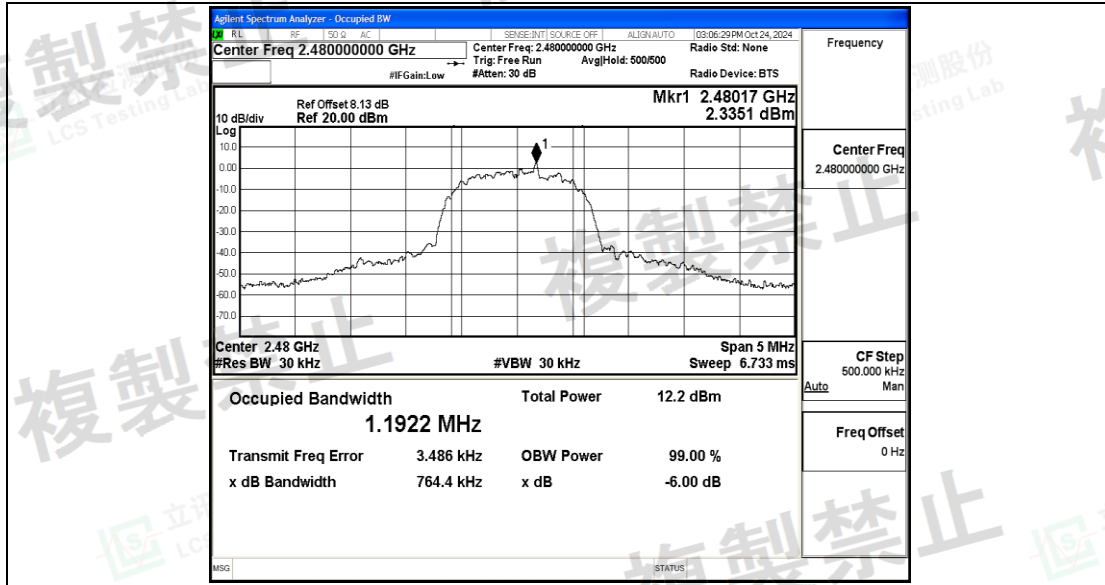
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



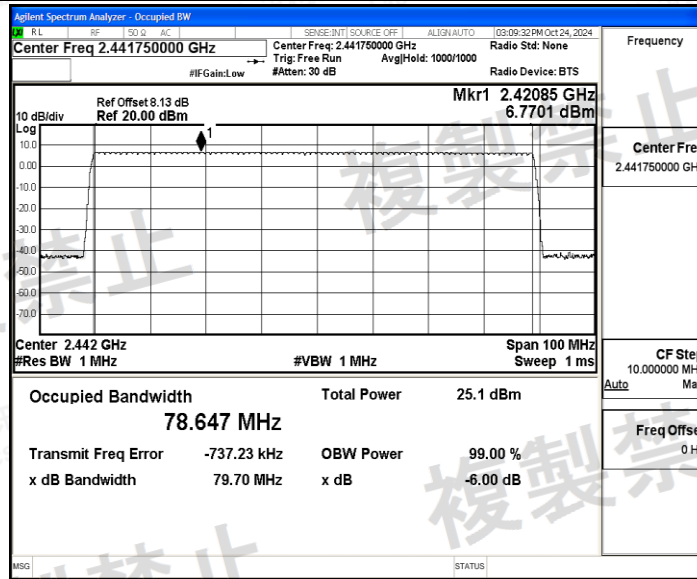




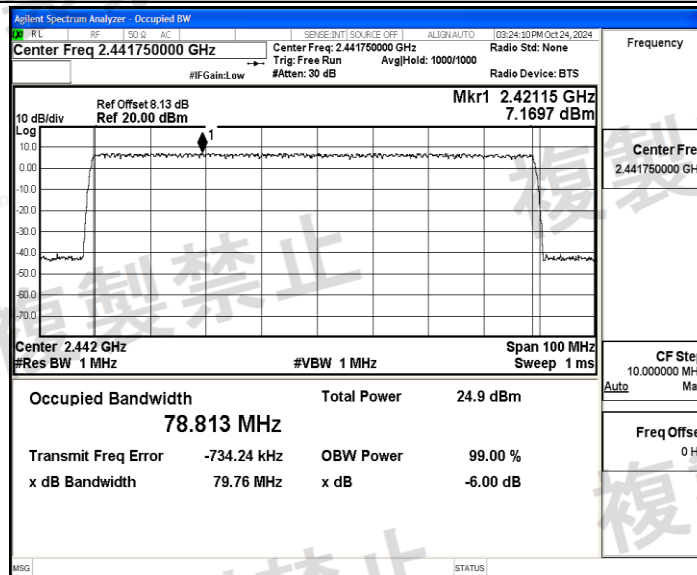
Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity



NTNV_DH5_Ant1_Hop

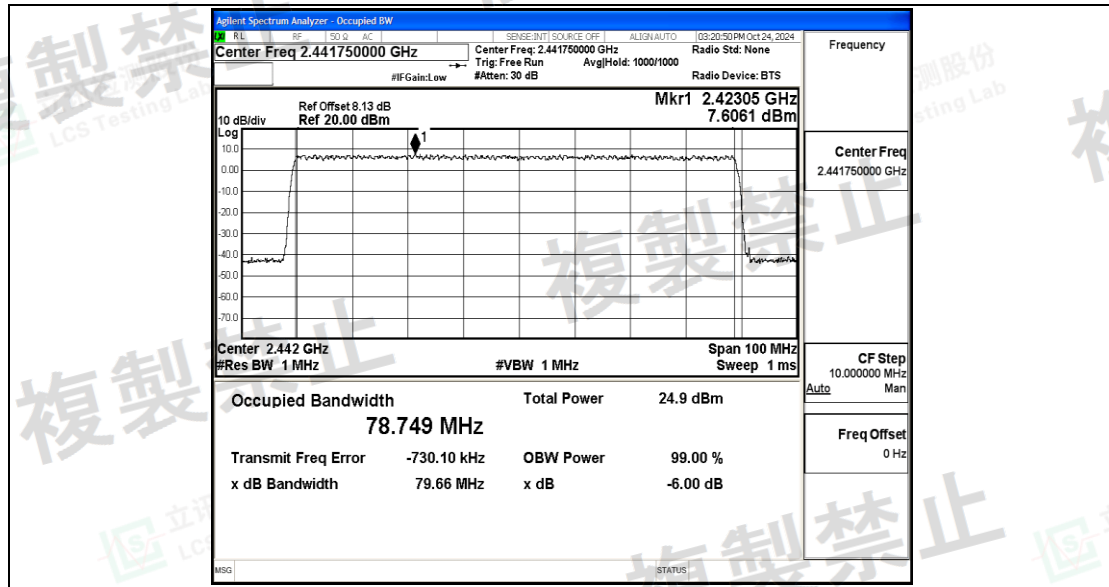


NTNV_2DH5_Ant1_Hop



NTNV_3DH5_Ant1_Hop







A.4 Spread Bandwidth

Test Result

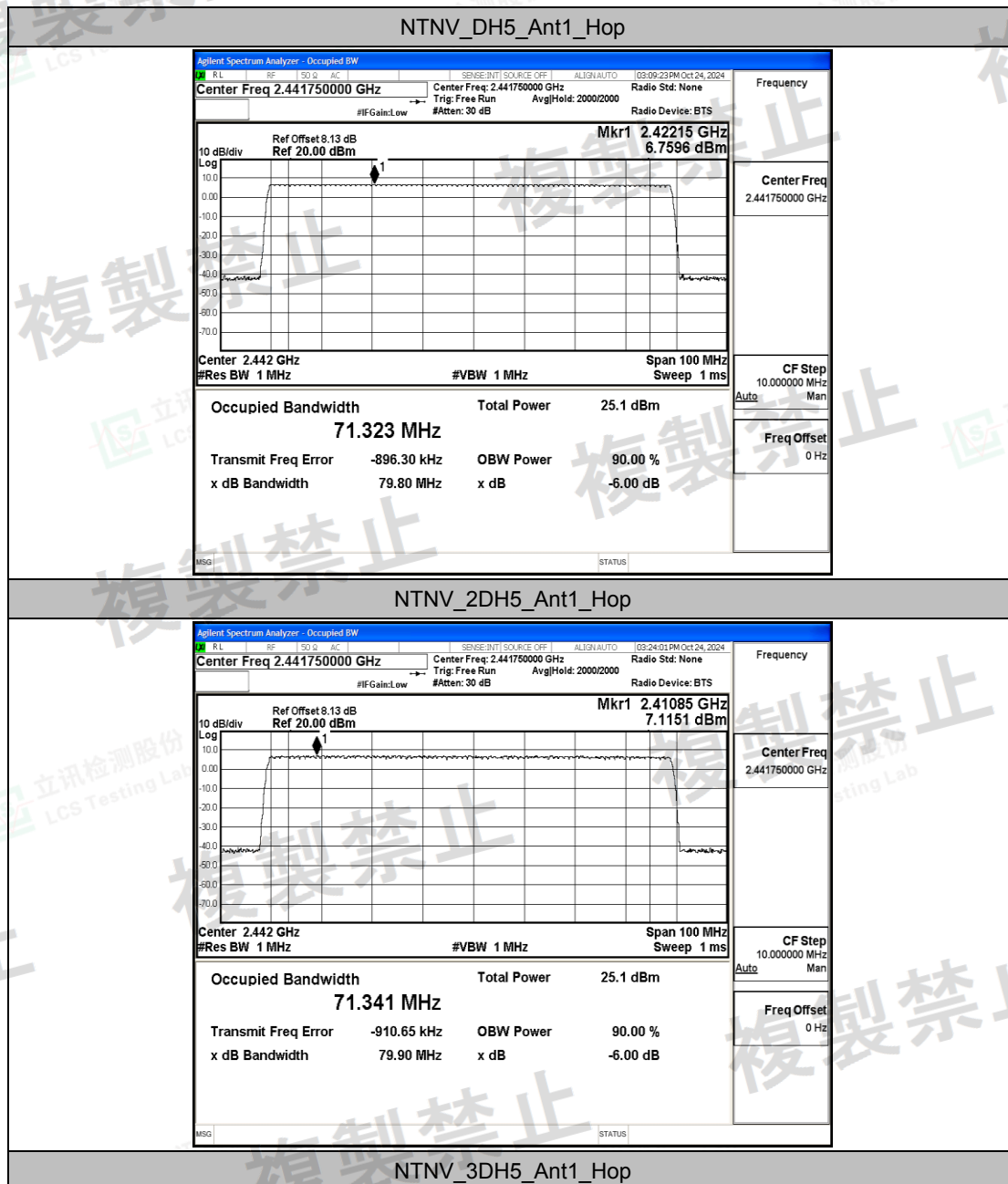
TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Modulation Rate (MHz)	Spread Factor	Limit [MHz]	Verdict
NTNV	DH5	Ant1	Hop	71.323	1	71.323	---	PASS
	2DH5	Ant1	Hop	71.341	2	35.671	---	PASS
	3DH5	Ant1	Hop	71.521	3	23.840	---	PASS

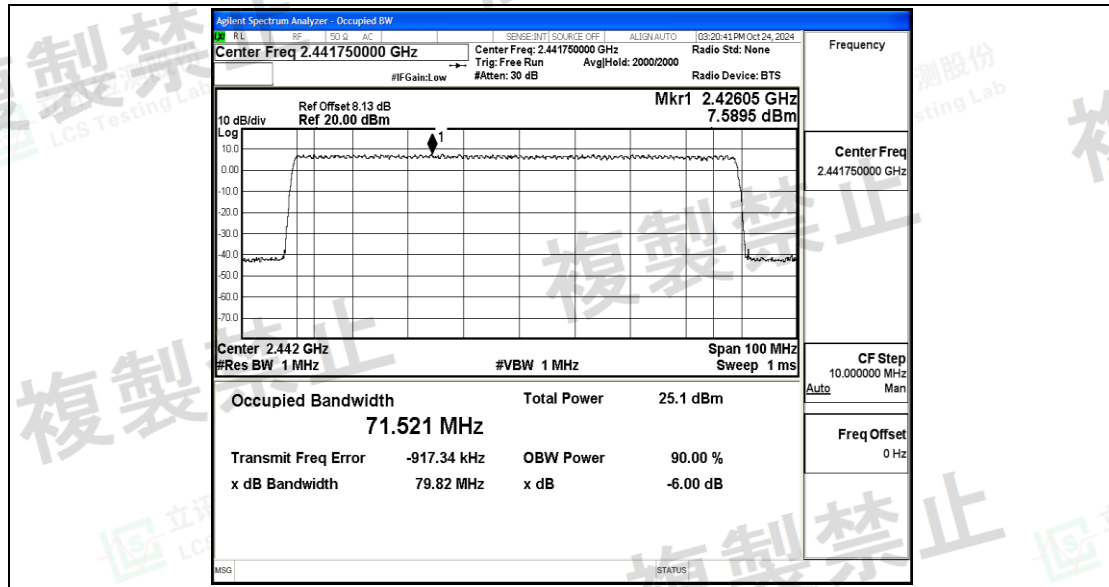


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity



Test Graphs







A.5 Spurious Emission of TX

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	DH5	Ant1	2402	30~1000	-54.80	≤-26	0.00331	≤2.5	PASS
				1000~2387	-54.44	≤-26	0.00360	≤2.5	PASS
				2387~2400	-39.10	≤-16	0.12303	≤25	PASS
				2483.5~2496.5	-49.50	≤-16	0.01122	≤25	PASS
				2496.5~13000	-50.22	≤-26	0.00951	≤2.5	PASS
		Ant1	2441	30~1000	-54.11	≤-26	0.00388	≤2.5	PASS
				1000~2387	-58.45	≤-26	0.00143	≤2.5	PASS
				2387~2400	-49.50	≤-16	0.01122	≤25	PASS
				2483.5~2496.5	-49.48	≤-16	0.01127	≤25	PASS
				2496.5~13000	-51.52	≤-26	0.00705	≤2.5	PASS
		Ant1	2480	30~1000	-54.23	≤-26	0.00378	≤2.5	PASS
				1000~2387	-58.66	≤-26	0.00136	≤2.5	PASS
				2387~2400	-49.67	≤-16	0.01079	≤25	PASS
				2483.5~2496.5	-48.65	≤-16	0.01365	≤25	PASS
				2496.5~13000	-51.72	≤-26	0.00673	≤2.5	PASS
	2DH5	Ant1	2402	30~1000	-54.79	≤-26	0.00332	≤2.5	PASS
				1000~2387	-57.25	≤-26	0.00188	≤2.5	PASS
				2387~2400	-31.94	≤-16	0.63973	≤25	PASS
				2483.5~2496.5	-49.38	≤-16	0.01153	≤25	PASS
				2496.5~13000	-51.29	≤-26	0.00743	≤2.5	PASS
		Ant1	2441	30~1000	-54.40	≤-26	0.00363	≤2.5	PASS
				1000~2387	-49.28	≤-26	0.01180	≤2.5	PASS
				2387~2400	-49.51	≤-16	0.01119	≤25	PASS
				2483.5~2496.5	-49.55	≤-16	0.01109	≤25	PASS
				2496.5~13000	-51.39	≤-26	0.00726	≤2.5	PASS
		Ant1	2480	30~1000	-54.88	≤-26	0.00325	≤2.5	PASS
				1000~2387	-50.10	≤-26	0.00977	≤2.5	PASS
				2387~2400	-49.62	≤-16	0.01091	≤25	PASS
				2483.5~2496.5	-48.48	≤-16	0.01419	≤25	PASS
				2496.5~13000	-51.13	≤-26	0.00771	≤2.5	PASS
	3DH5	Ant1	2402	30~1000	-54.75	≤-26	0.00335	≤2.5	PASS
				1000~2387	-57.56	≤-26	0.00175	≤2.5	PASS
				2387~2400	-32.17	≤-16	0.60674	≤25	PASS
				2483.5~2496.5	-49.41	≤-16	0.01146	≤25	PASS
				2496.5~13000	-50.92	≤-26	0.00809	≤2.5	PASS

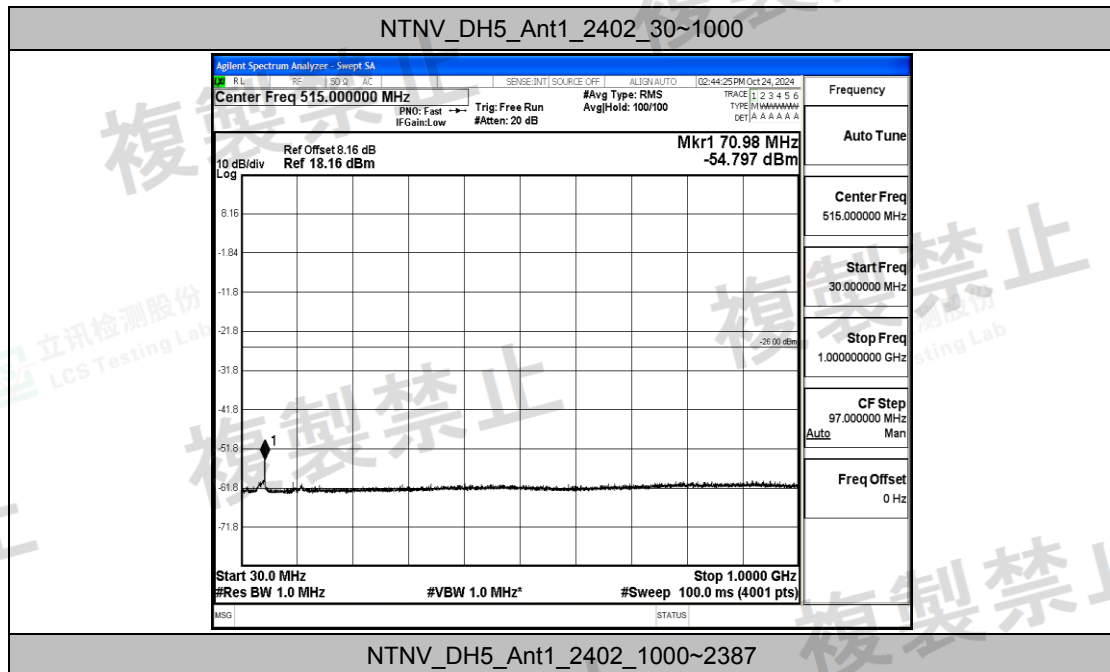


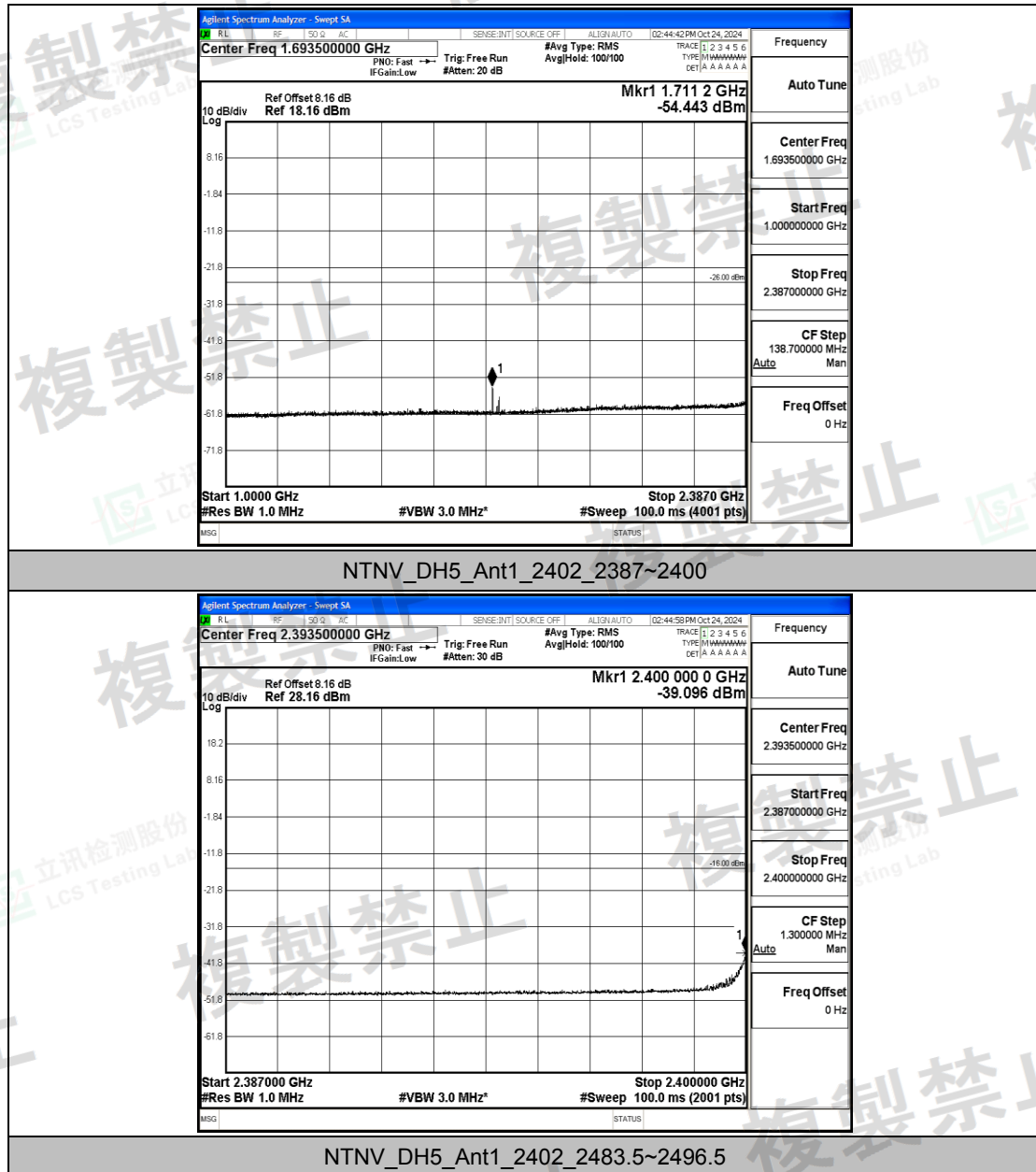
Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

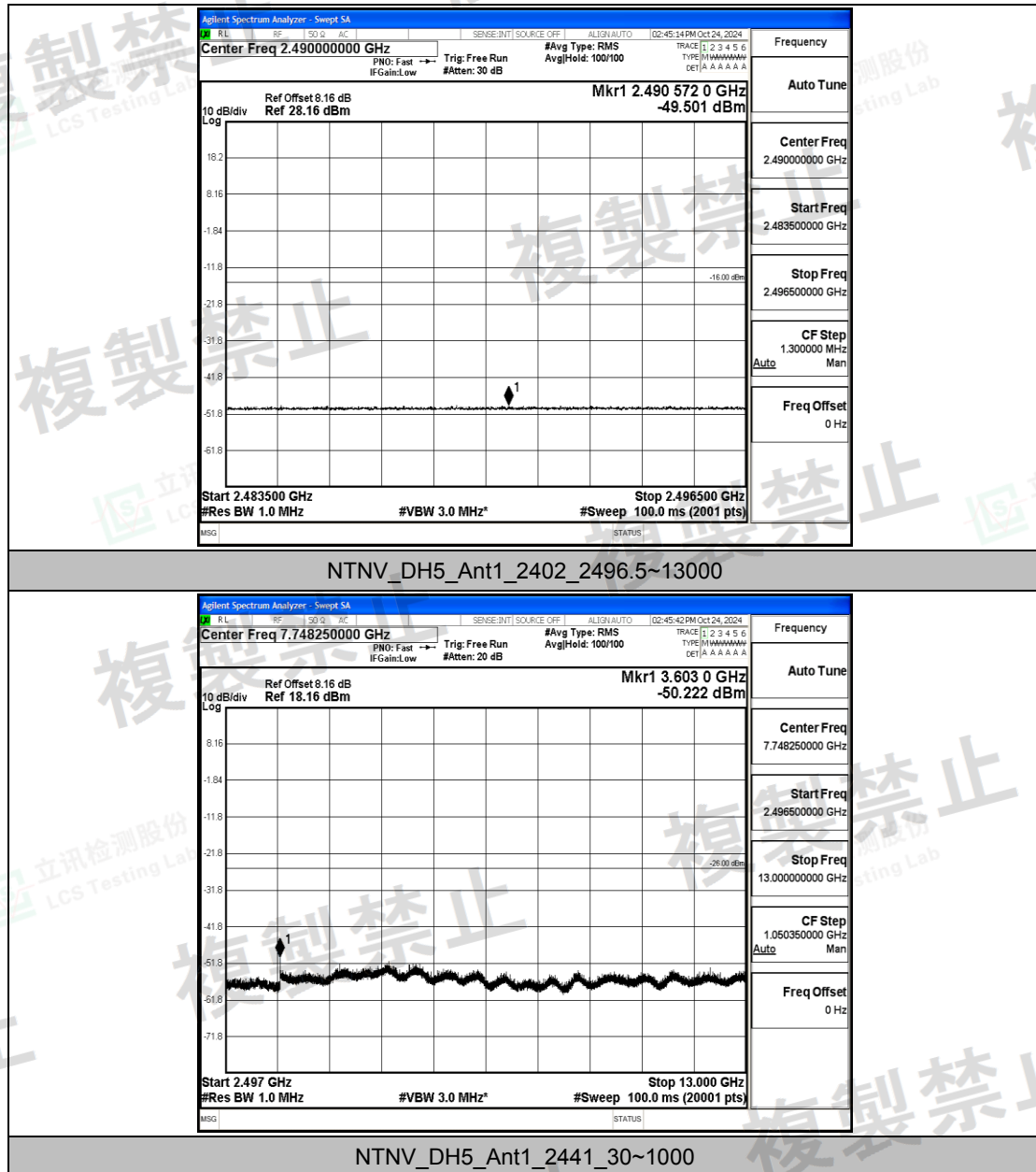


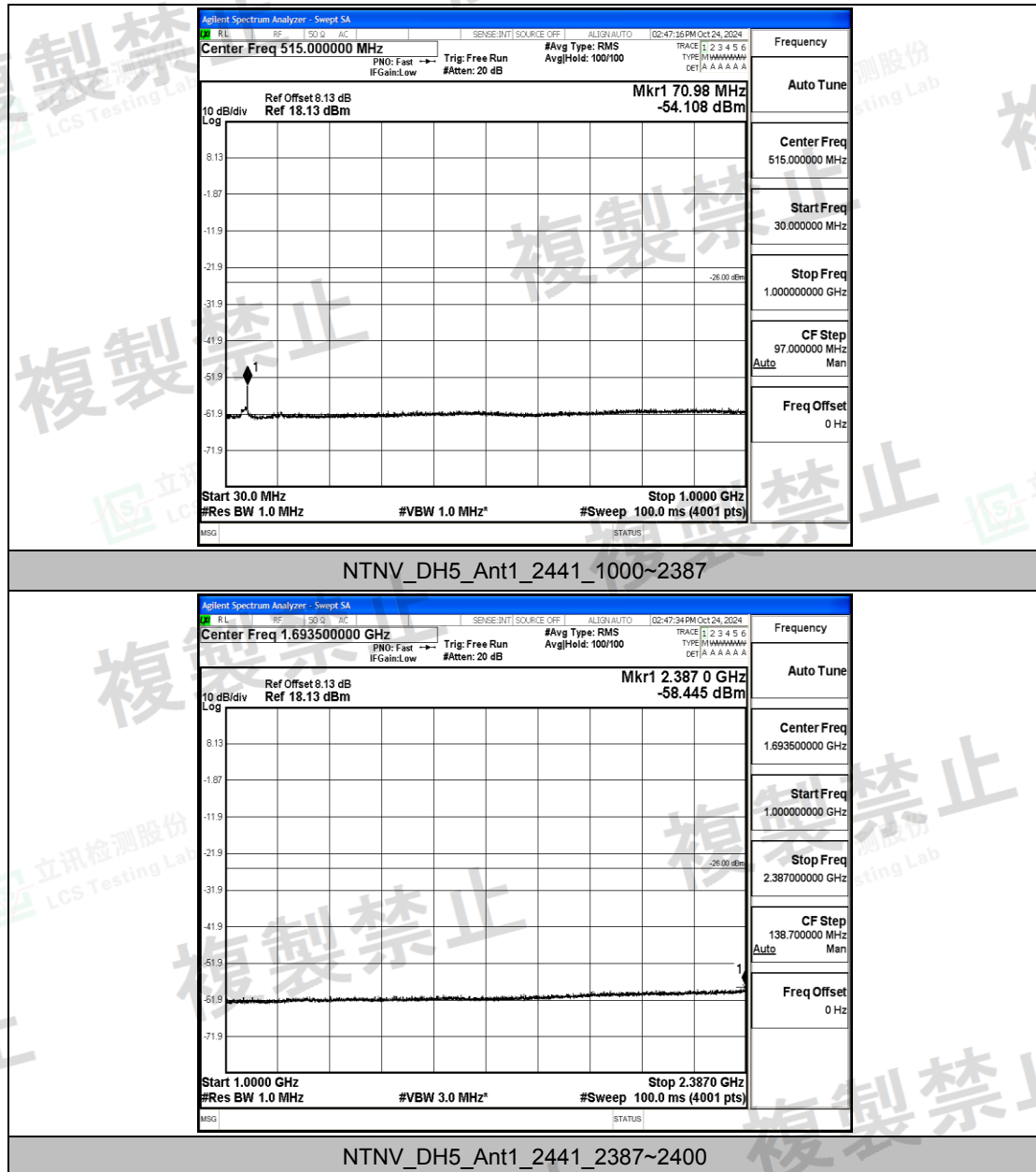
		2441	30~1000	-42.86	≤-26	0.05176	≤2.5	PASS
			1000~2387	-58.73	≤-26	0.00134	≤2.5	PASS
			2387~2400	-49.52	≤-16	0.01117	≤25	PASS
			2483.5~2496.5	-49.47	≤-16	0.01130	≤25	PASS
			2496.5~13000	-51.76	≤-26	0.00667	≤2.5	PASS
		2480	30~1000	-54.02	≤-26	0.00396	≤2.5	PASS
			1000~2387	-58.53	≤-26	0.00140	≤2.5	PASS
			2387~2400	-49.49	≤-16	0.01125	≤25	PASS
			2483.5~2496.5	-48.52	≤-16	0.01406	≤25	PASS
			2496.5~13000	-51.24	≤-26	0.00752	≤2.5	PASS

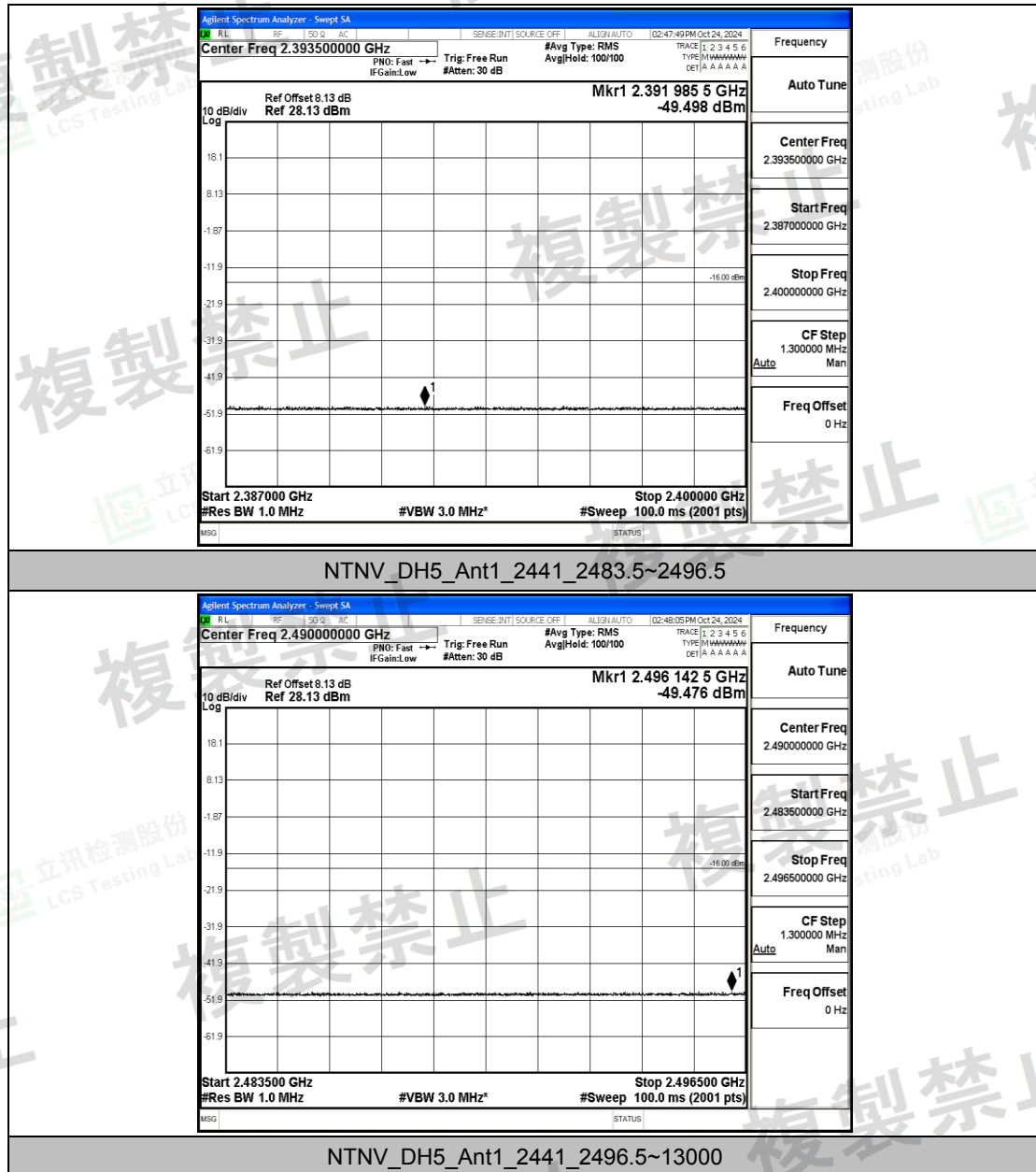
Test Graphs

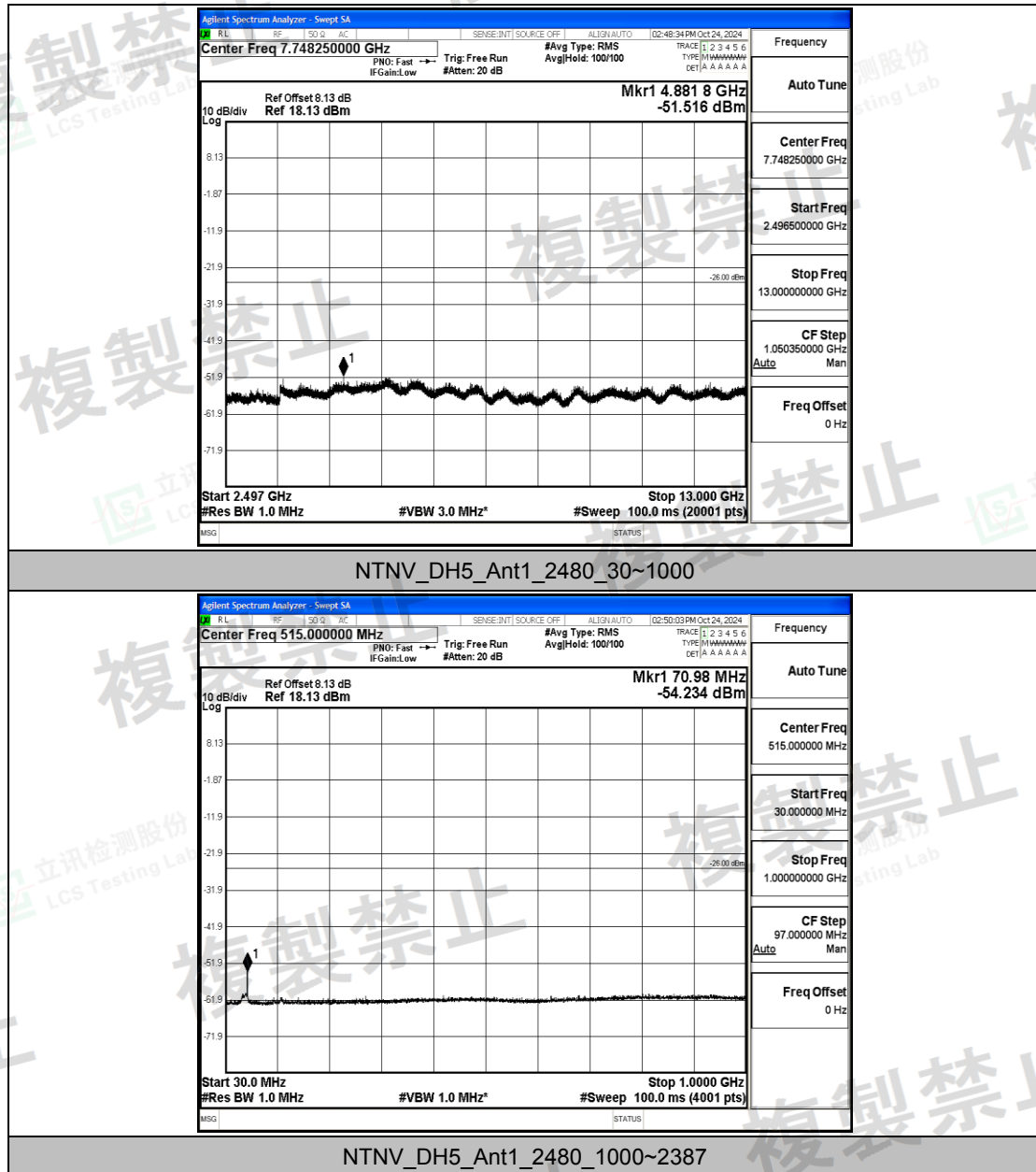


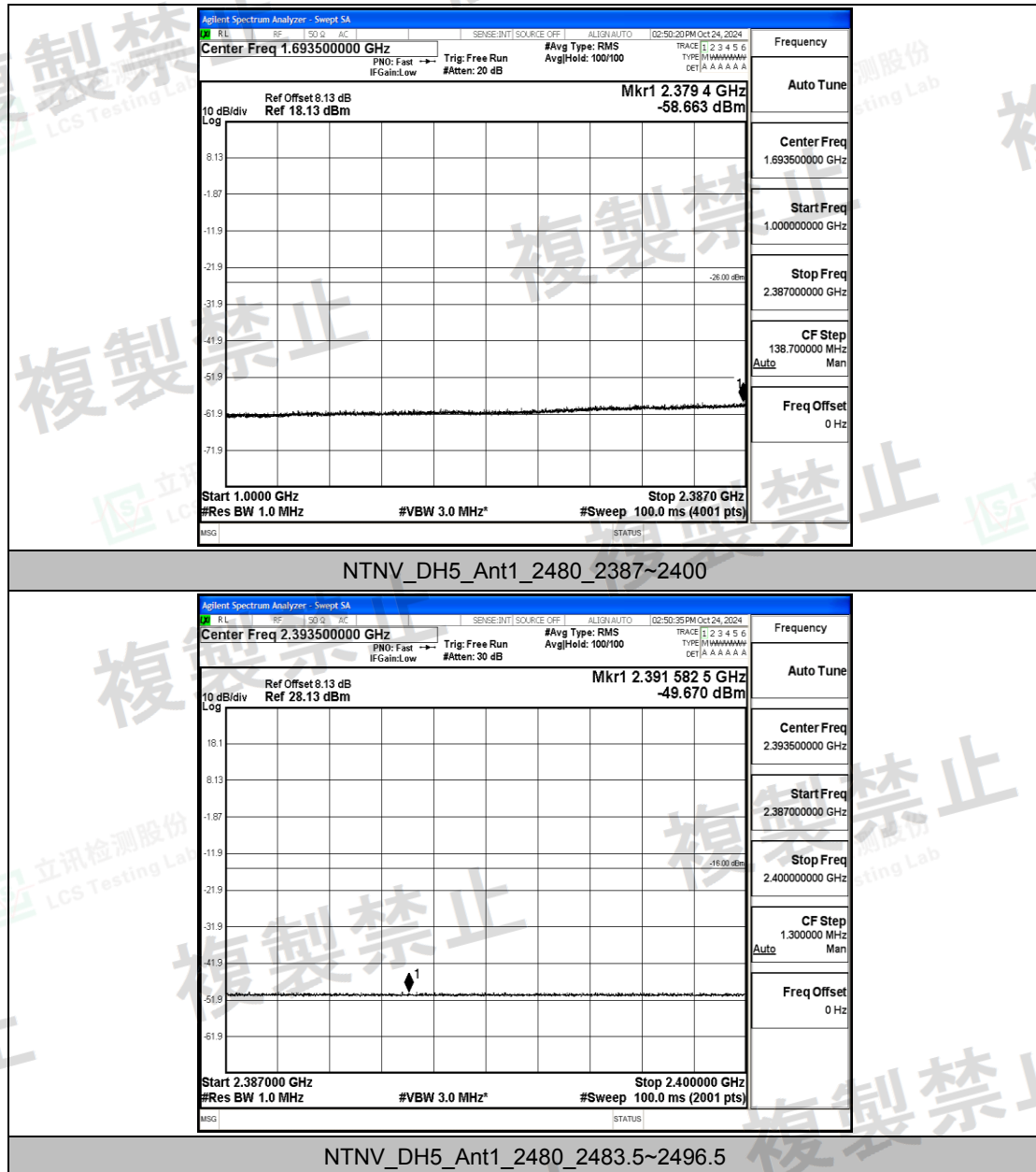


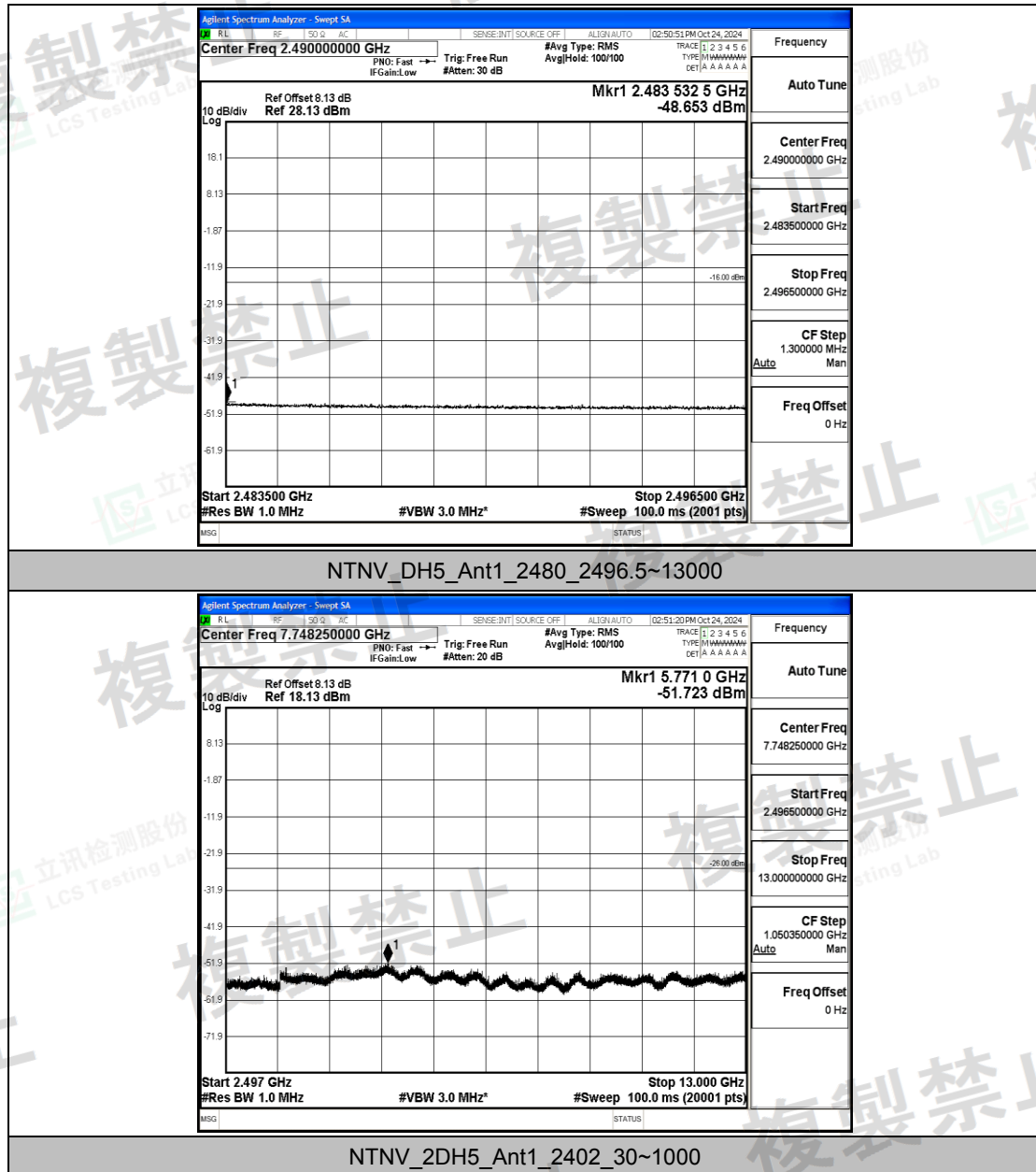




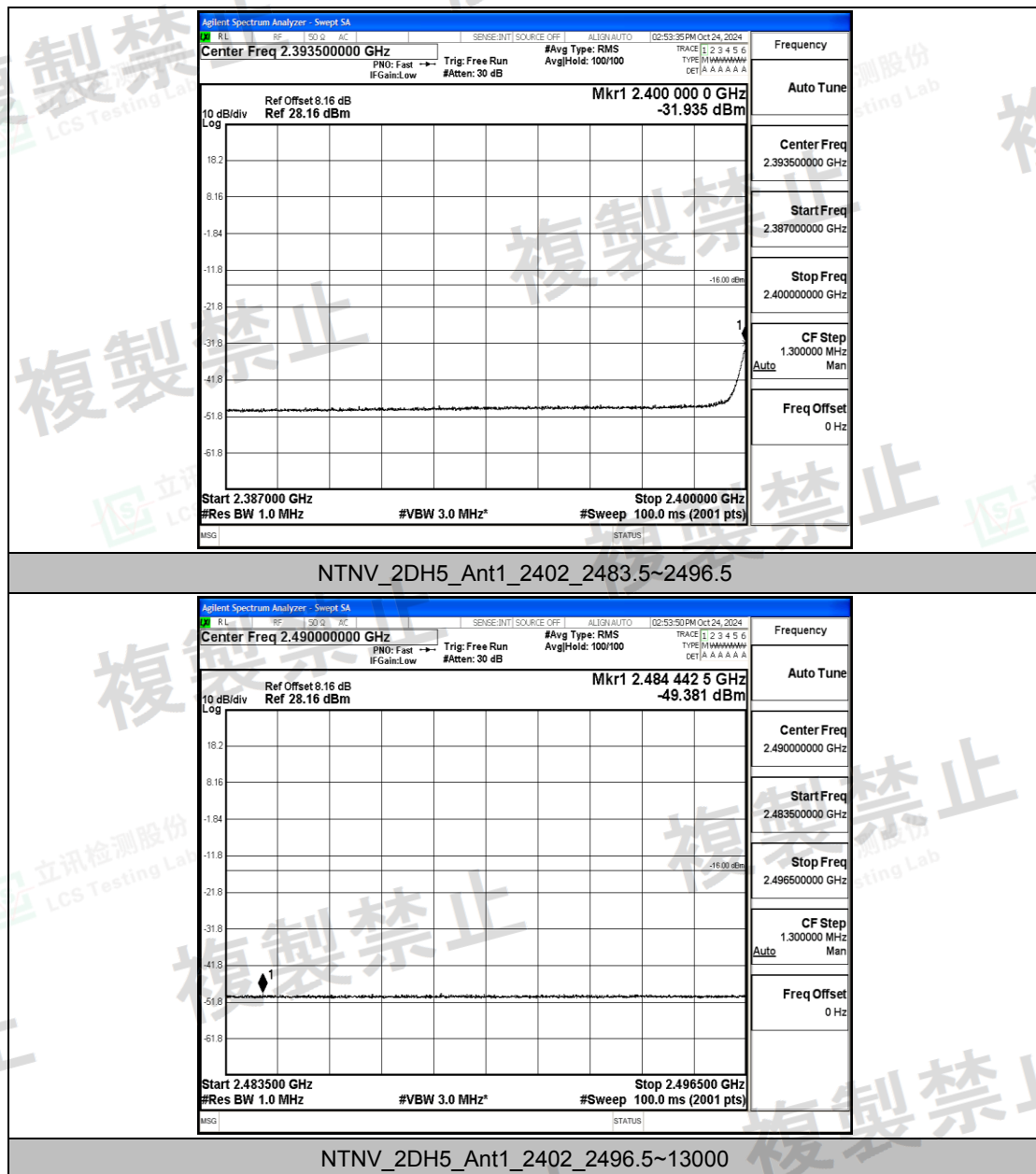


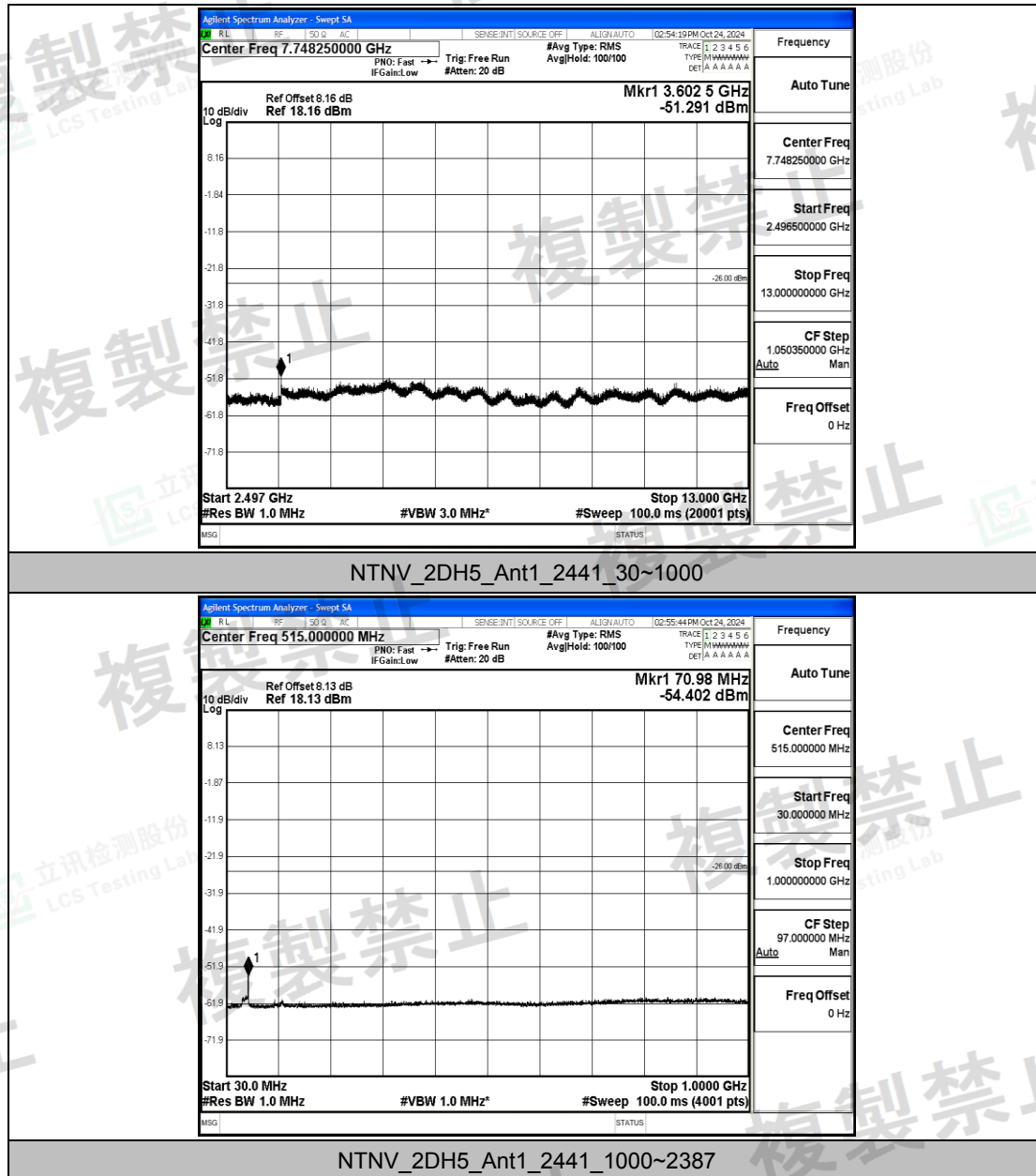


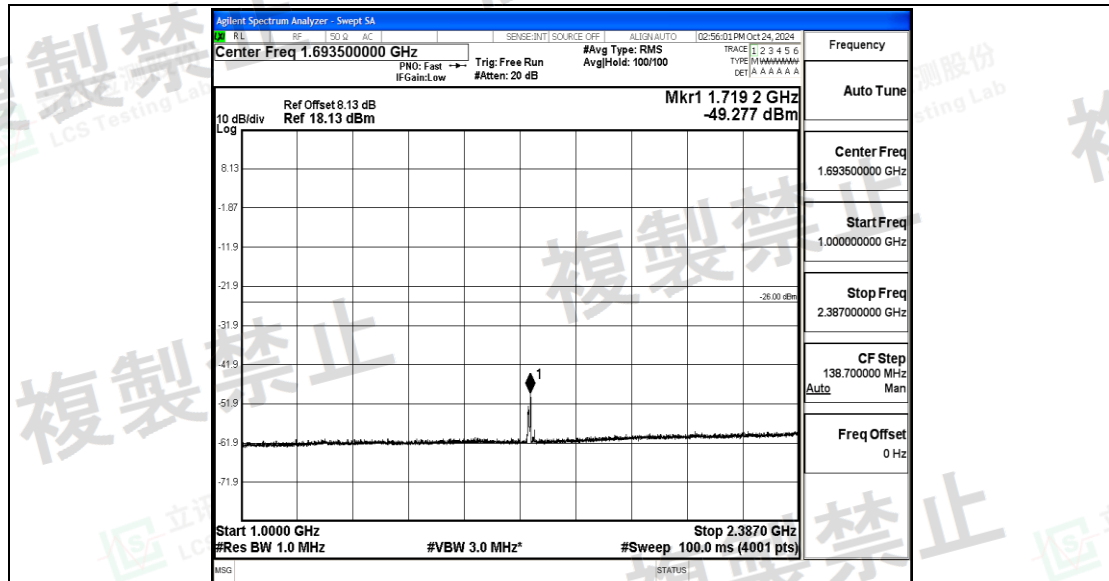




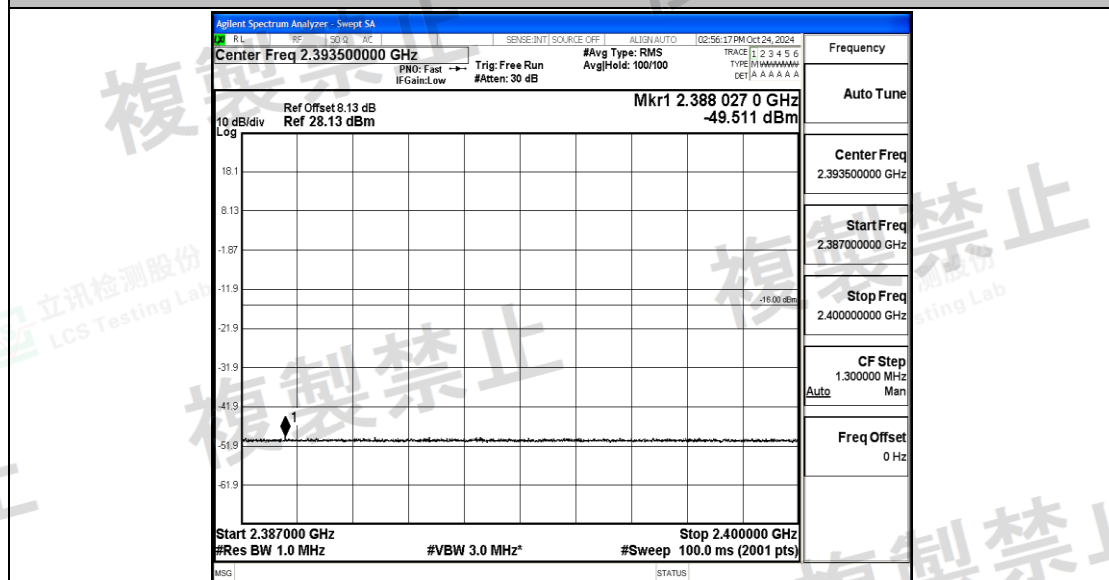








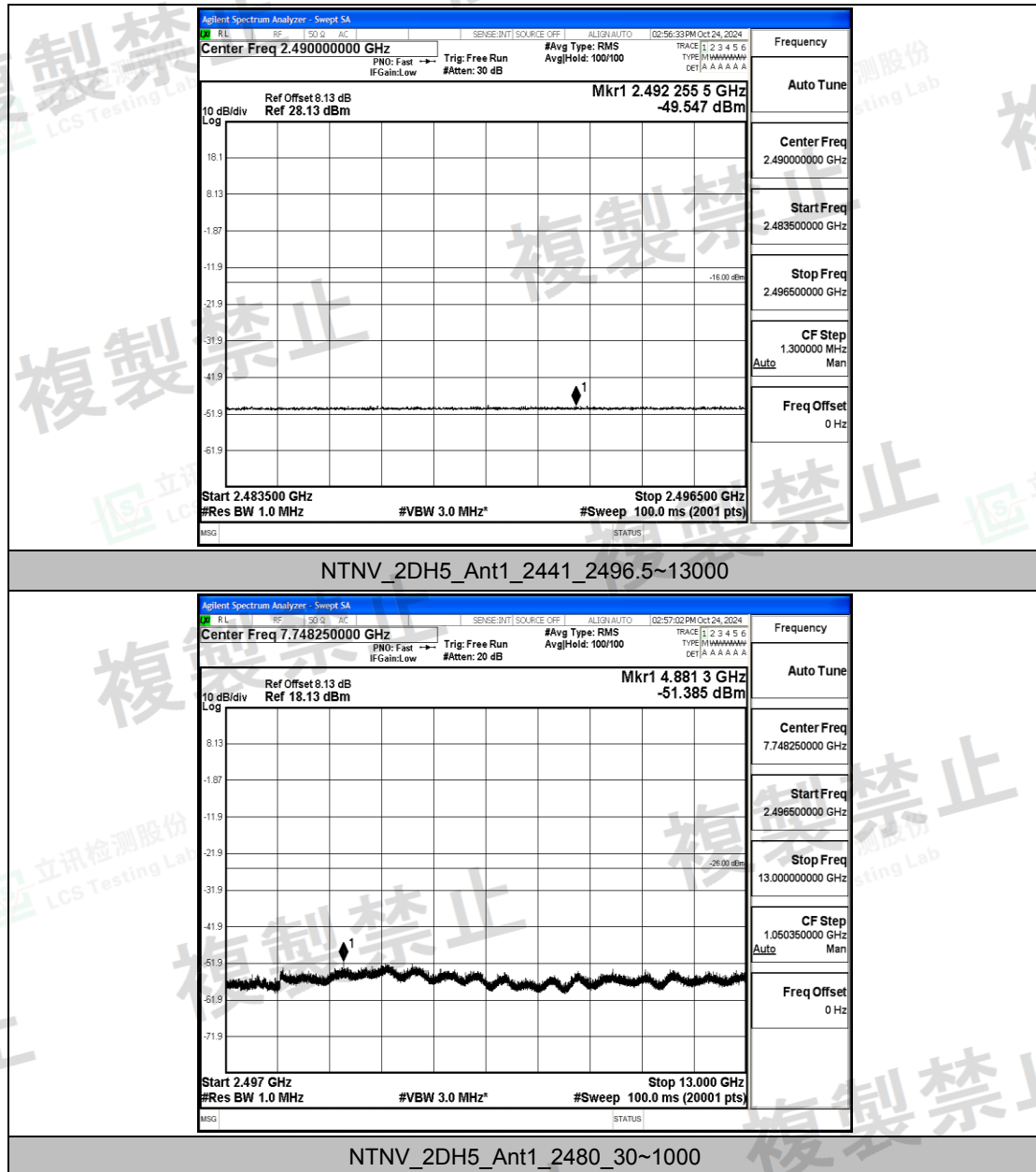
NTNV_2DH5_Ant1_2441_2387~2400

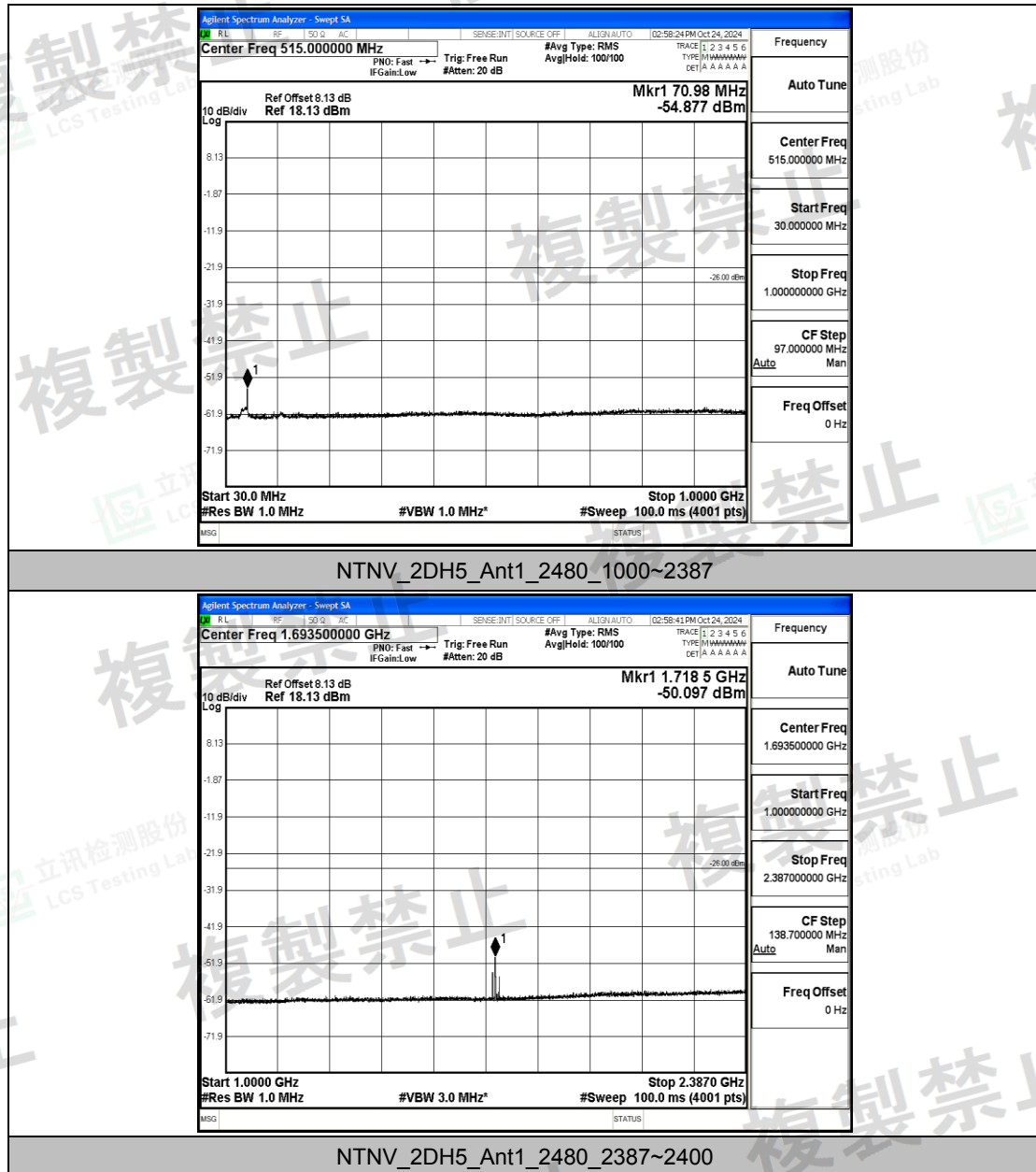


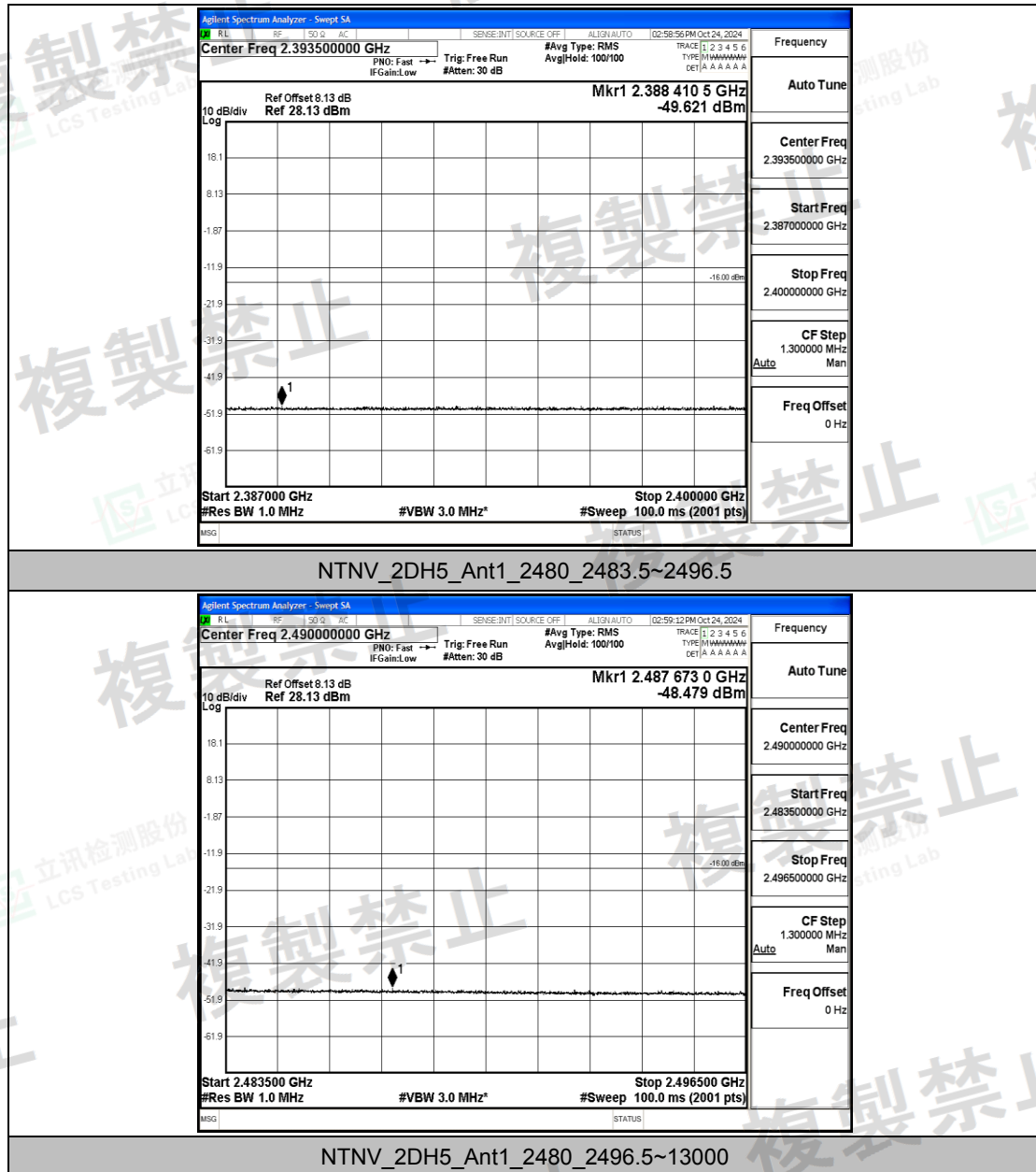
NTNV_2DH5_Ant1_2441_2483.5~2496.5

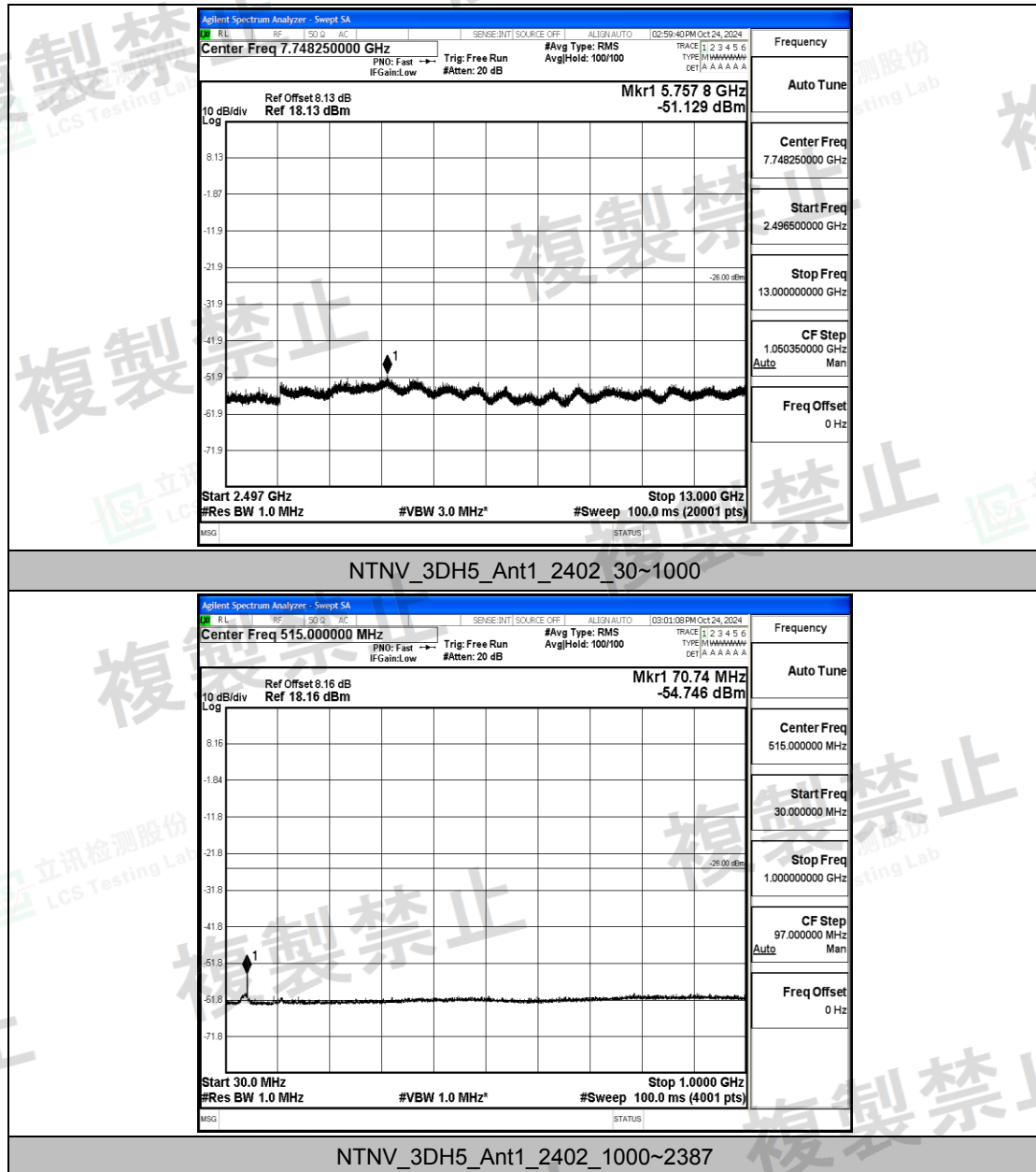


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

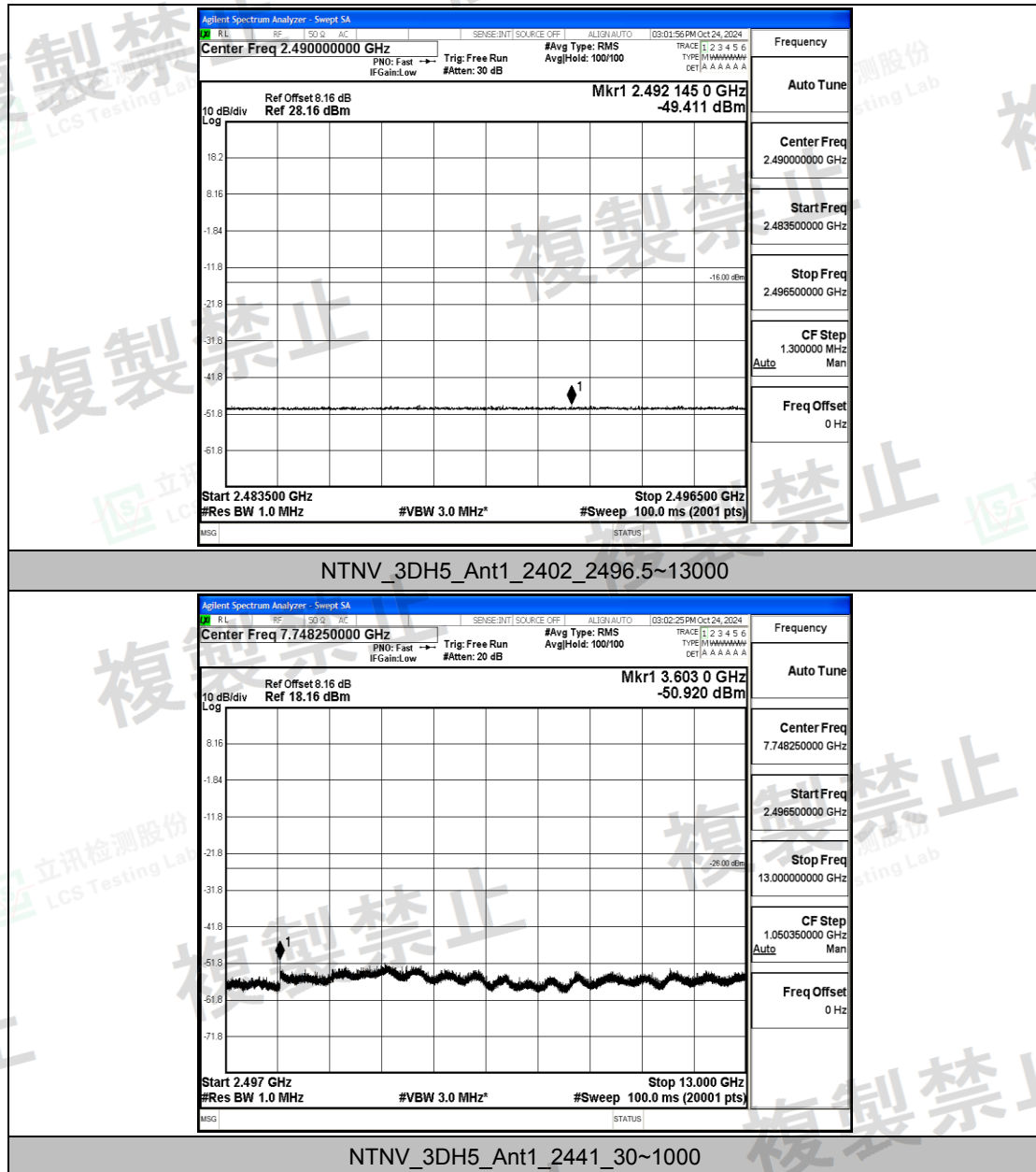




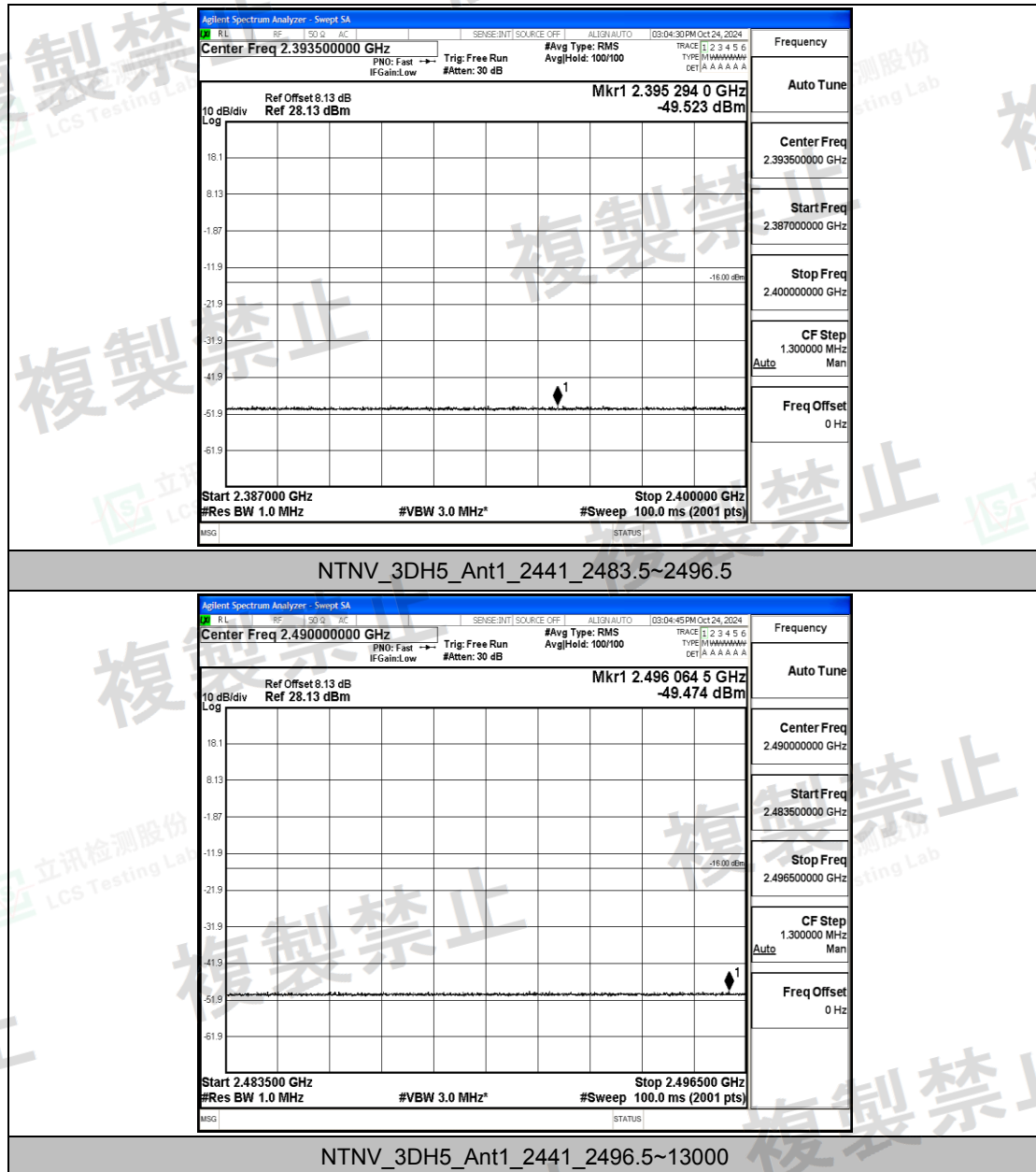


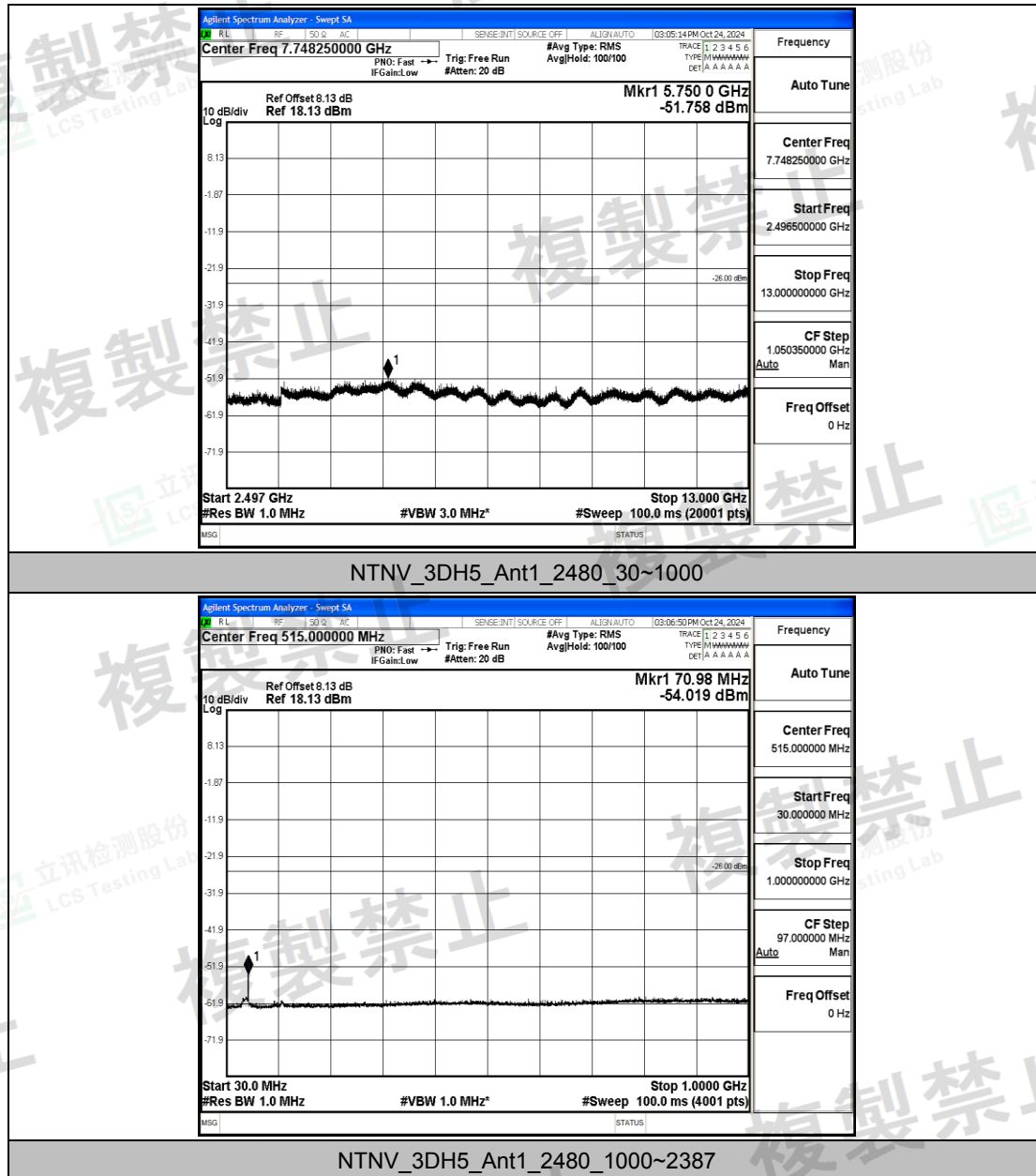


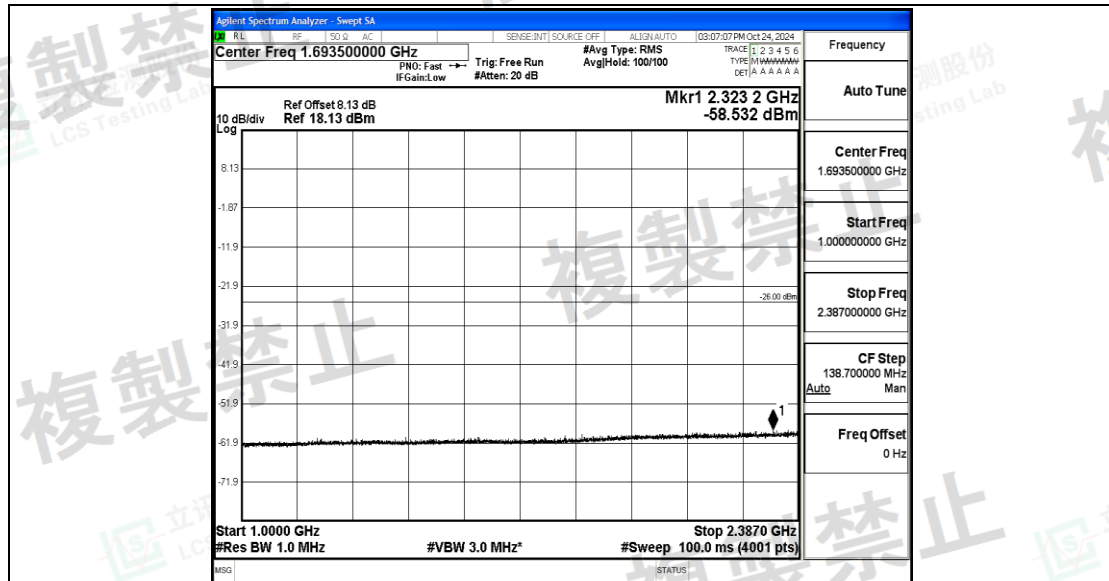




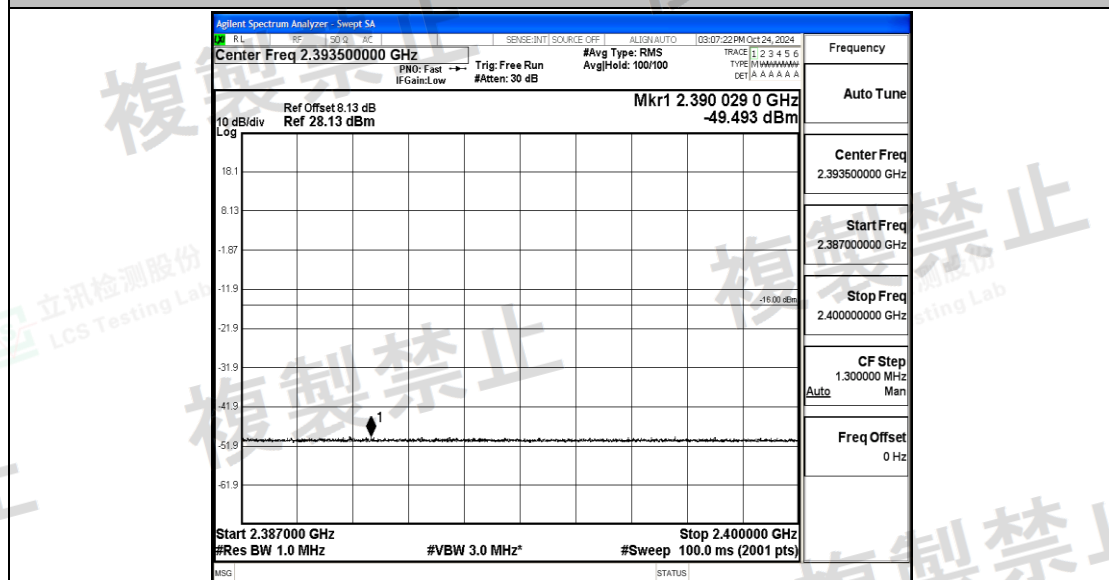








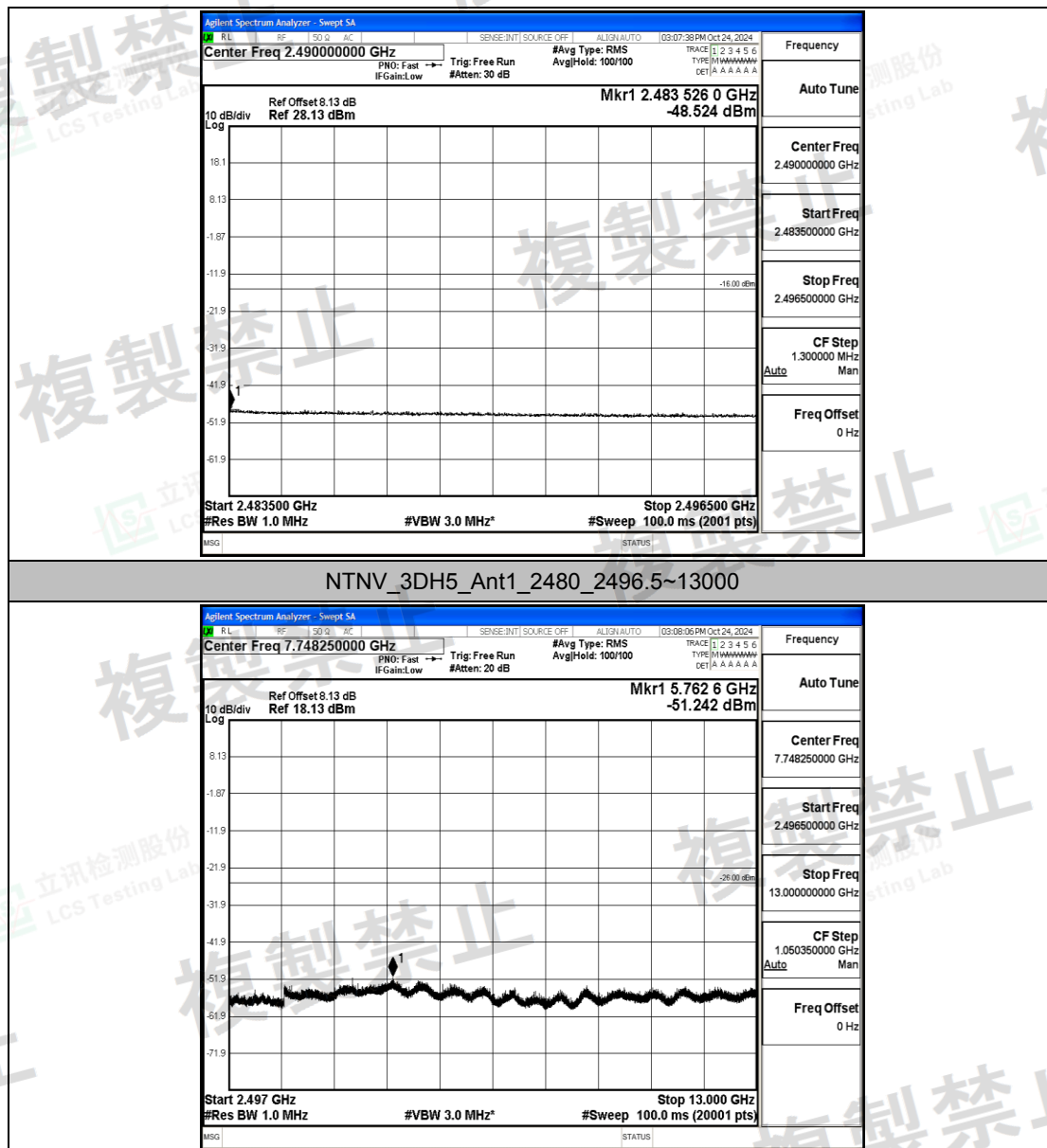
NTNV_3DH5_Ant1_2480_2387~2400



NTNV_3DH5_Ant1_2480_2483.5~2496.5



Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity



Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

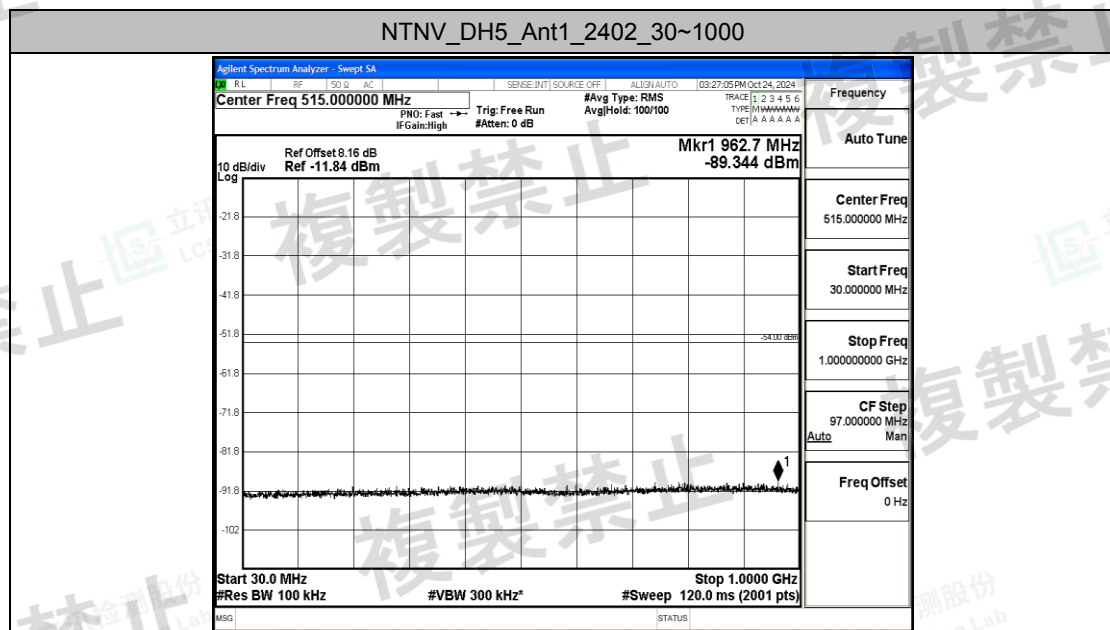


A.6 Spurious Emission of RX

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	DH5	Ant1	2402	30~1000	-89.34	≤-54	0.00116	≤4	PASS
				1000~12500	-73.53	≤-47	0.04436	≤20	PASS
			2441	30~1000	-89.44	≤-54	0.00114	≤4	PASS
				1000~12500	-73.03	≤-47	0.04977	≤20	PASS
			2480	30~1000	-89.15	≤-54	0.00122	≤4	PASS
				1000~12500	-73.18	≤-47	0.04808	≤20	PASS
	2DH5	Ant1	2402	30~1000	-89.44	≤-54	0.00114	≤4	PASS
				1000~12500	-72.8	≤-47	0.05248	≤20	PASS
			2441	30~1000	-89.1	≤-54	0.00123	≤4	PASS
				1000~12500	-73.18	≤-47	0.04808	≤20	PASS
			2480	30~1000	-89.32	≤-54	0.00117	≤4	PASS
				1000~12500	-73.27	≤-47	0.04710	≤20	PASS
	3DH5	Ant1	2402	30~1000	-89.23	≤-54	0.00119	≤4	PASS
				1000~12500	-72.88	≤-47	0.05152	≤20	PASS
			2441	30~1000	-89.88	≤-54	0.00103	≤4	PASS
				1000~12500	-72.79	≤-47	0.05260	≤20	PASS
			2480	30~1000	-89.93	≤-54	0.00102	≤4	PASS
				1000~12500	-72.89	≤-47	0.05140	≤20	PASS

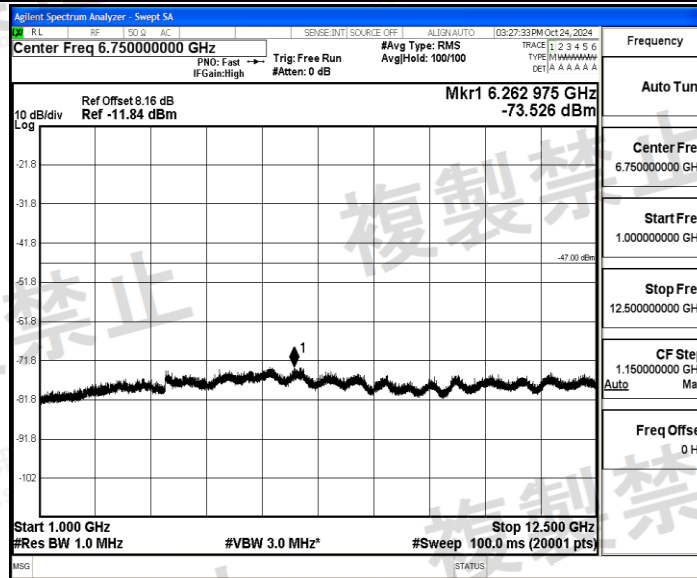
Test Graphs



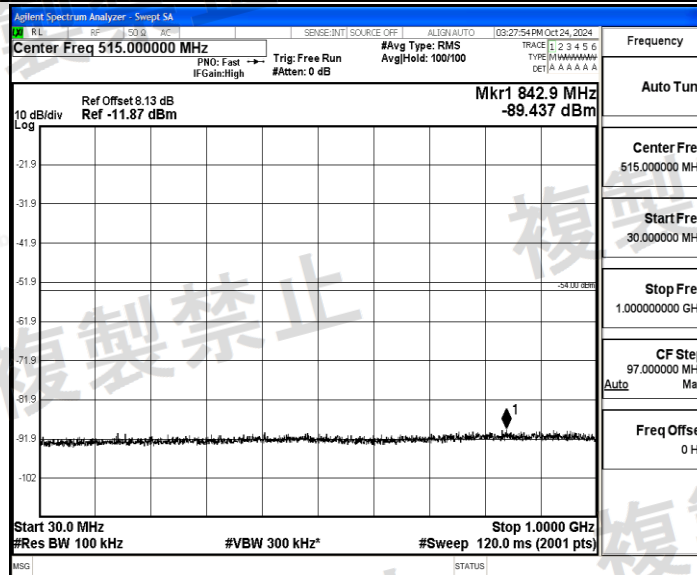
Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity



NTNV_DH5_Ant1_2402_1000~12500

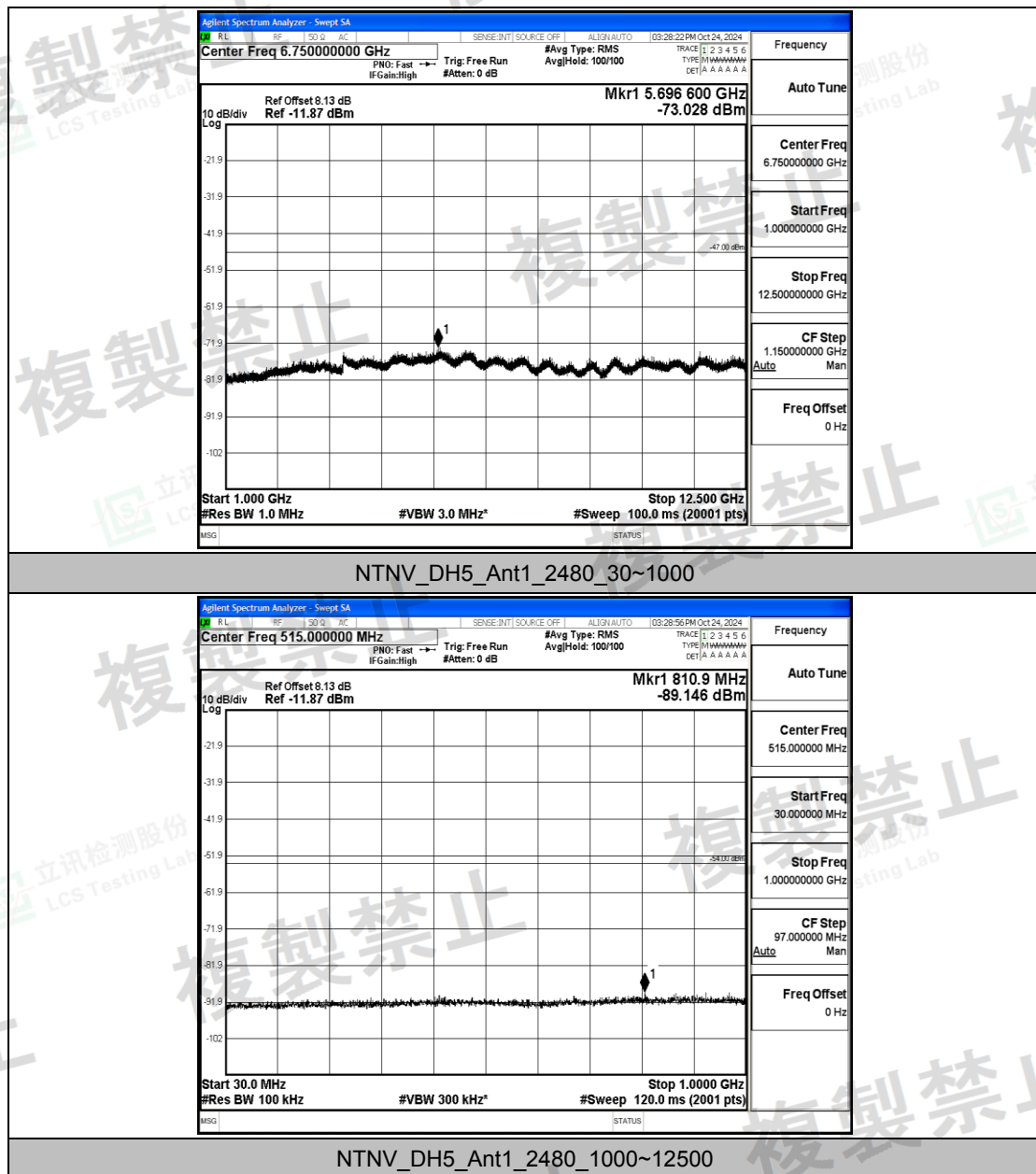


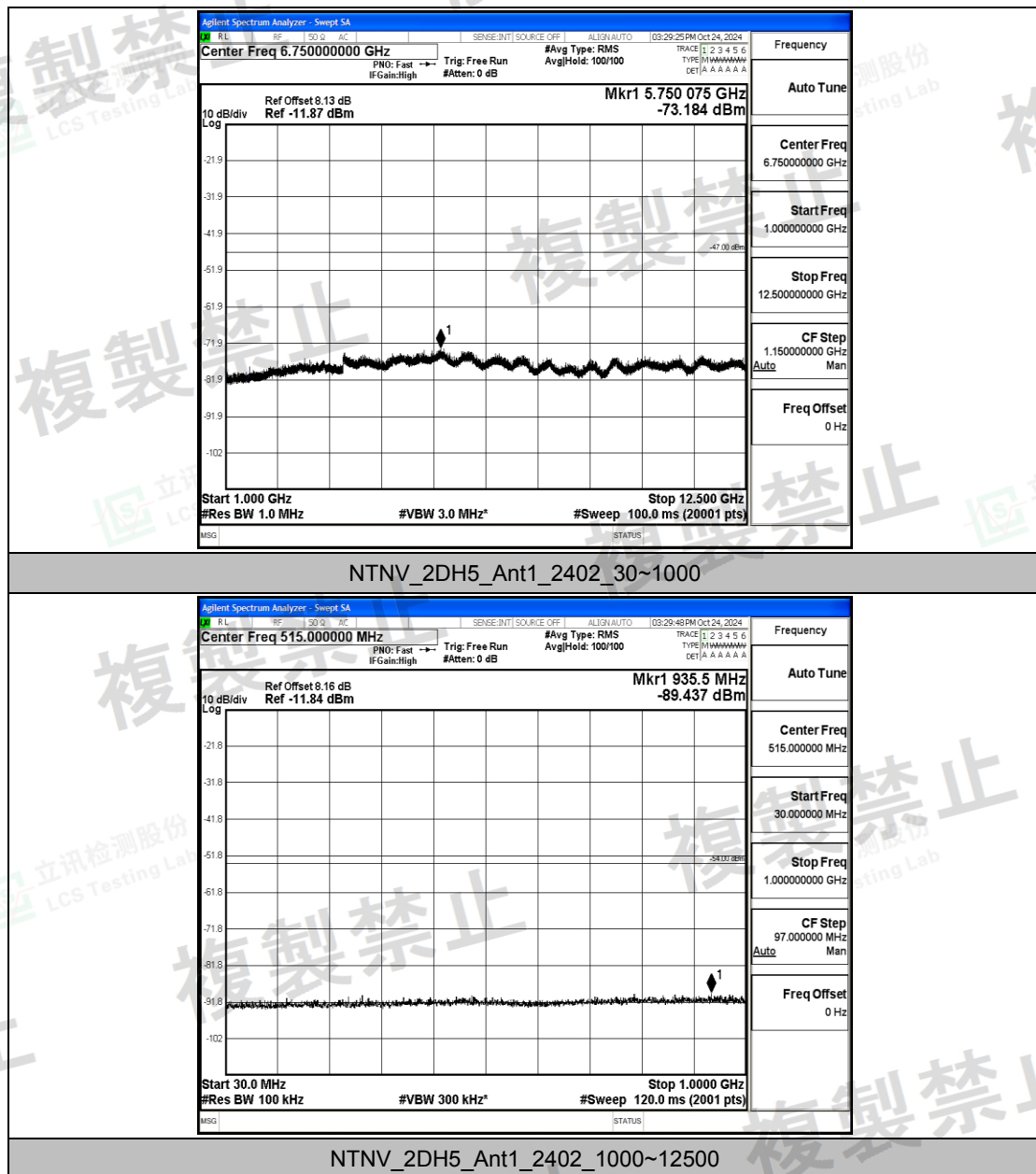
NTNV_DH5_Ant1_2441_30~1000

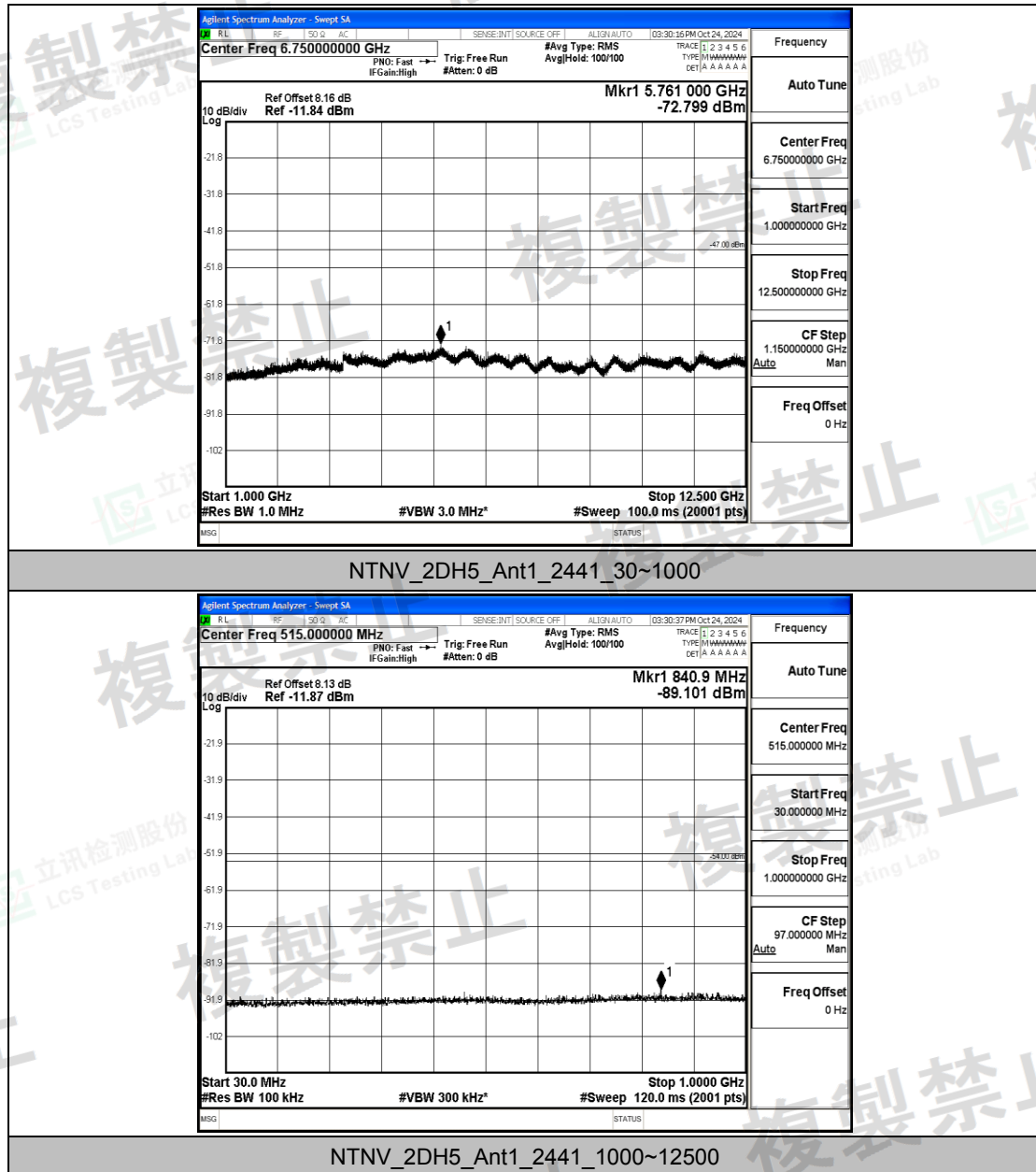


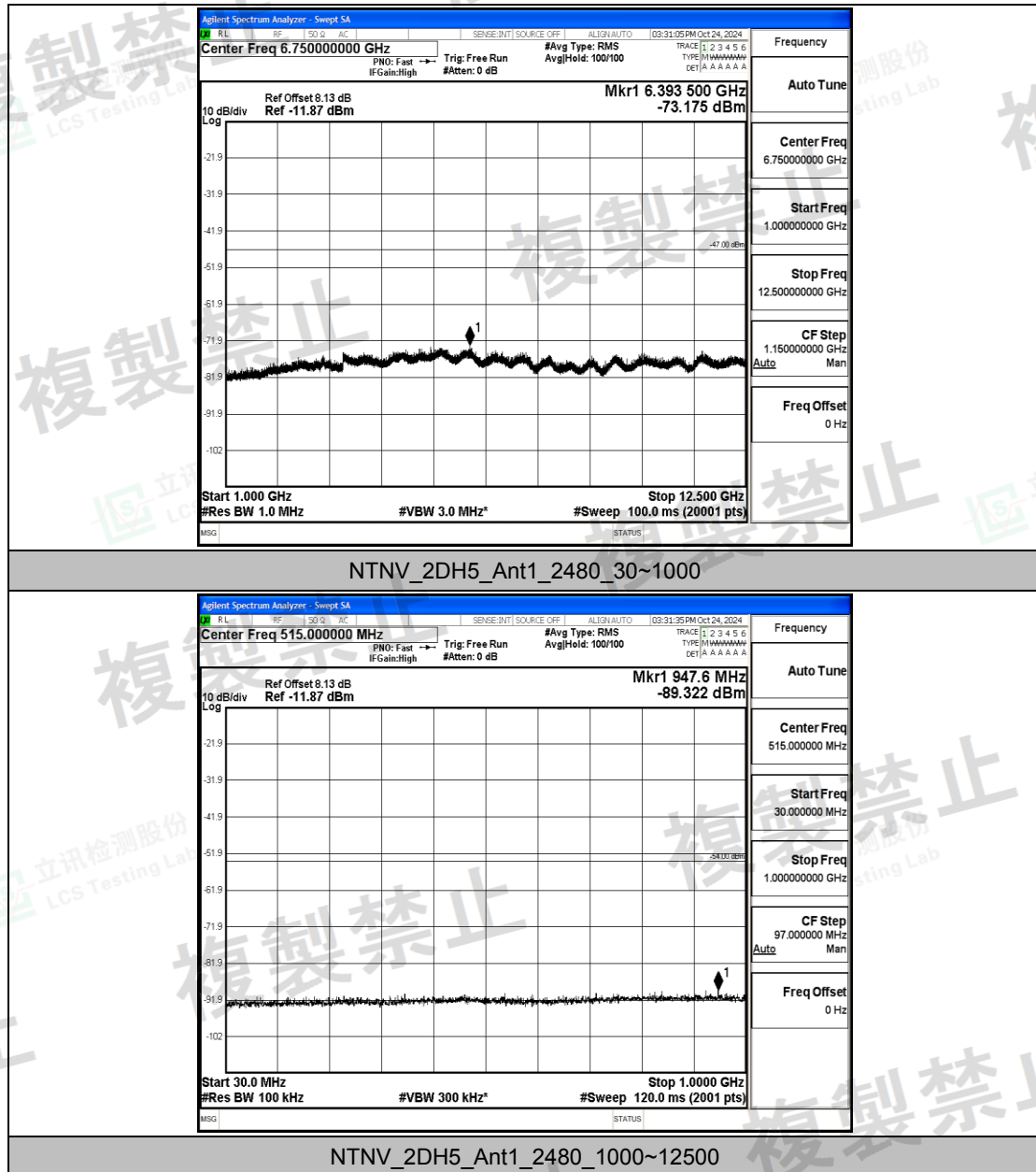
NTNV_DH5_Ant1_2441_1000~12500

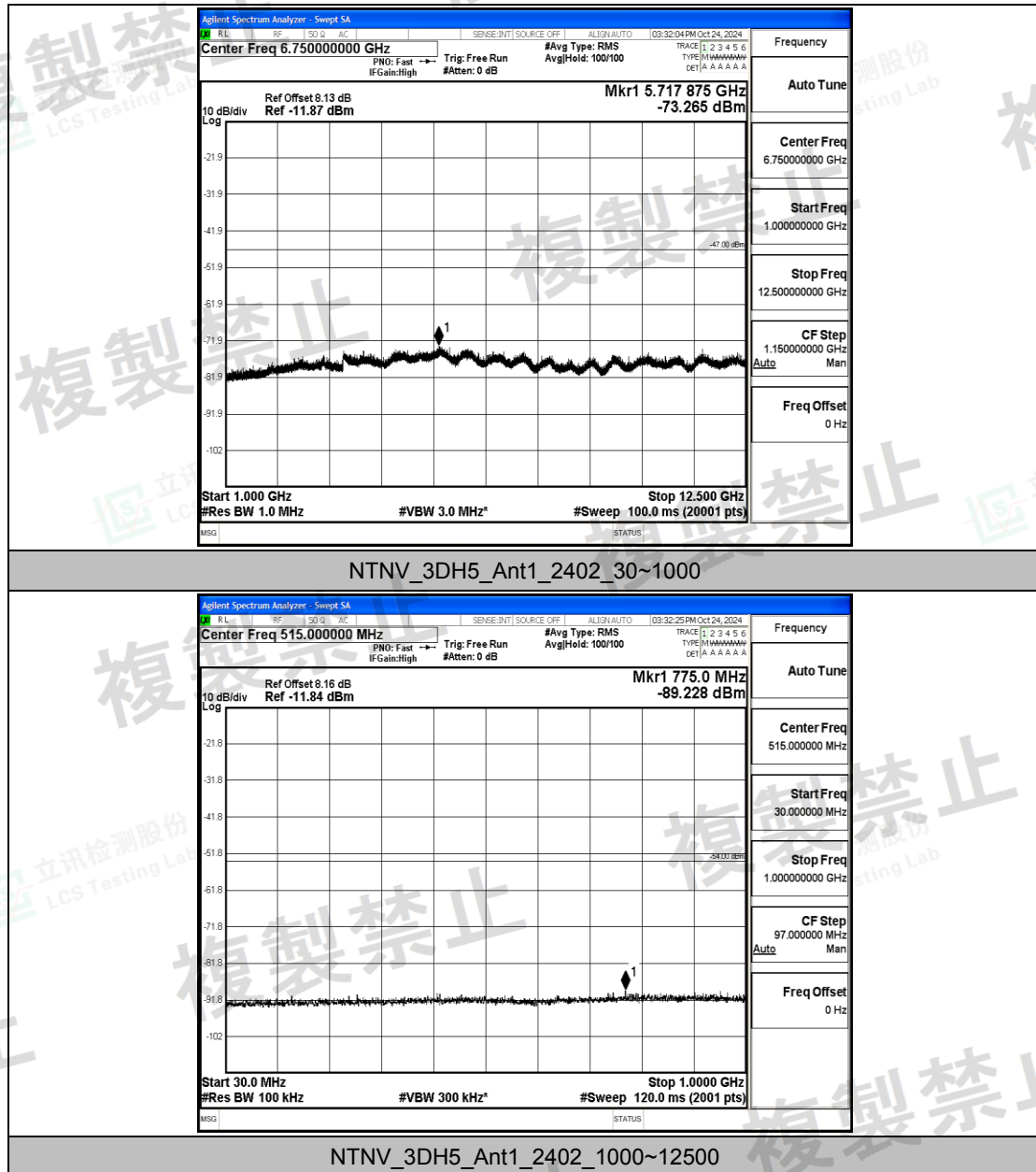


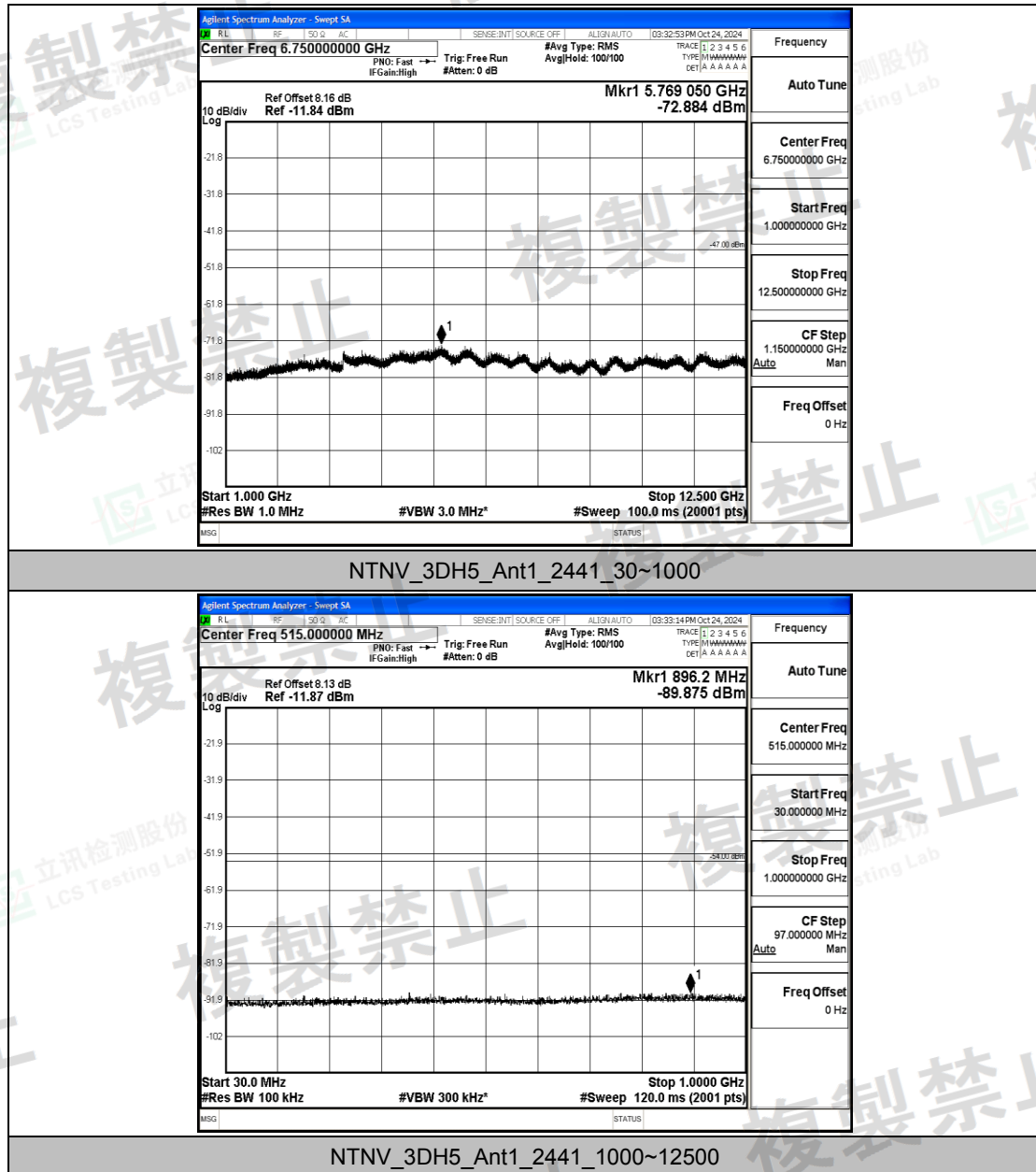


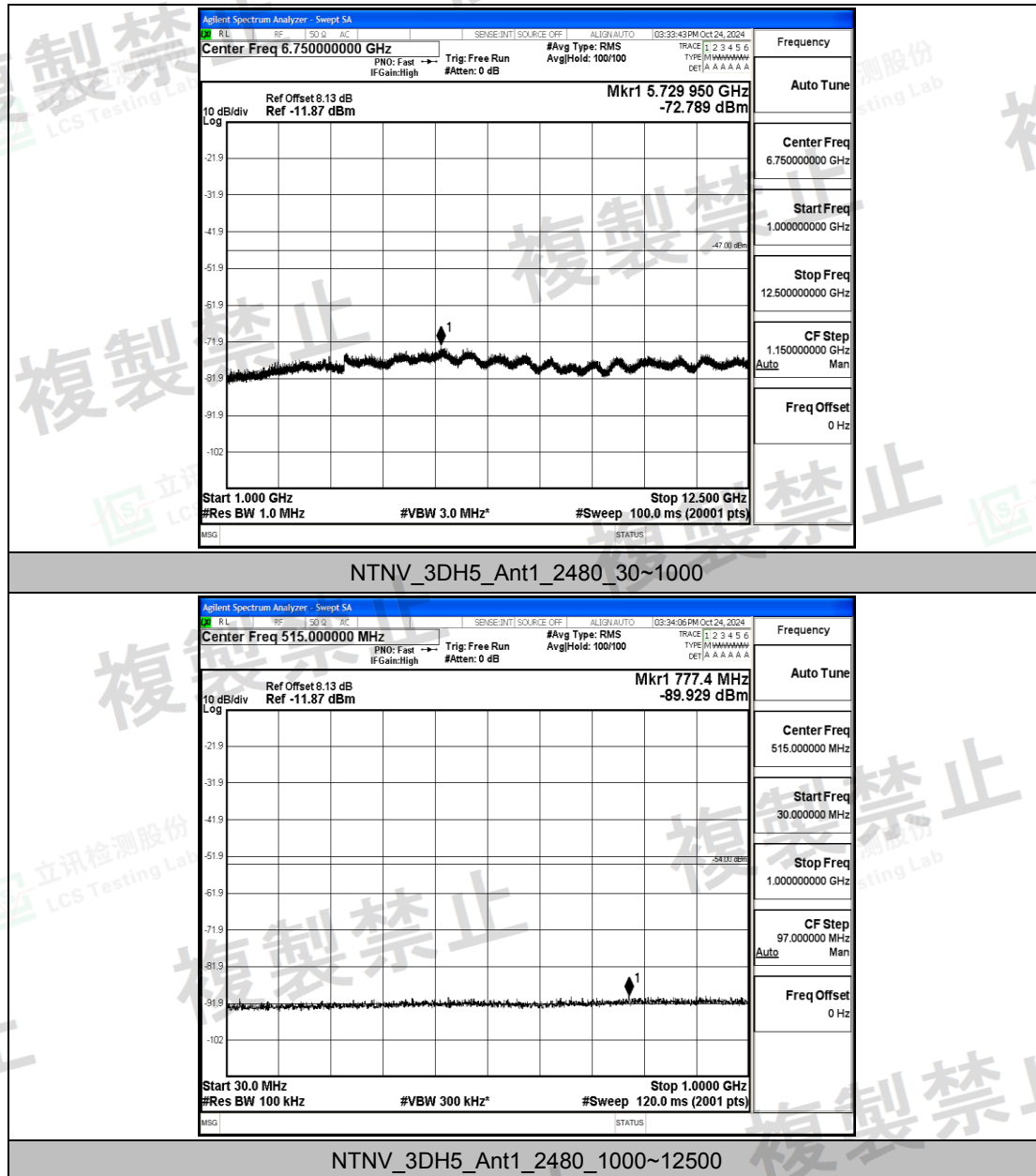


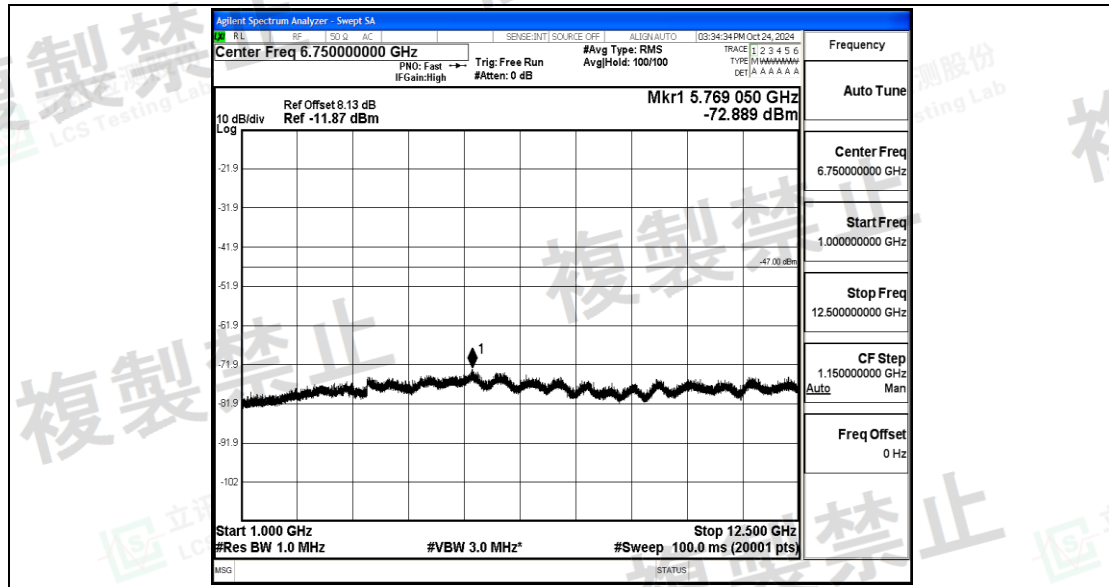














A.7 Dwell Time

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit [s]	Verdict
NTNV	DH5	Ant1	Hop	2.89	130	0.376	≤0.4	PASS
	2DH5	Ant1	Hop	2.89	120	0.347	≤0.4	PASS
	3DH5	Ant1	Hop	2.89	120	0.347	≤0.4	PASS



Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity



Test Graphs

