

Appendix A for 2.4G Test Data

Product Name: PCB module TX (Fork Lift Controller)
Test Model: XN-HX2613T

Environmental Conditions

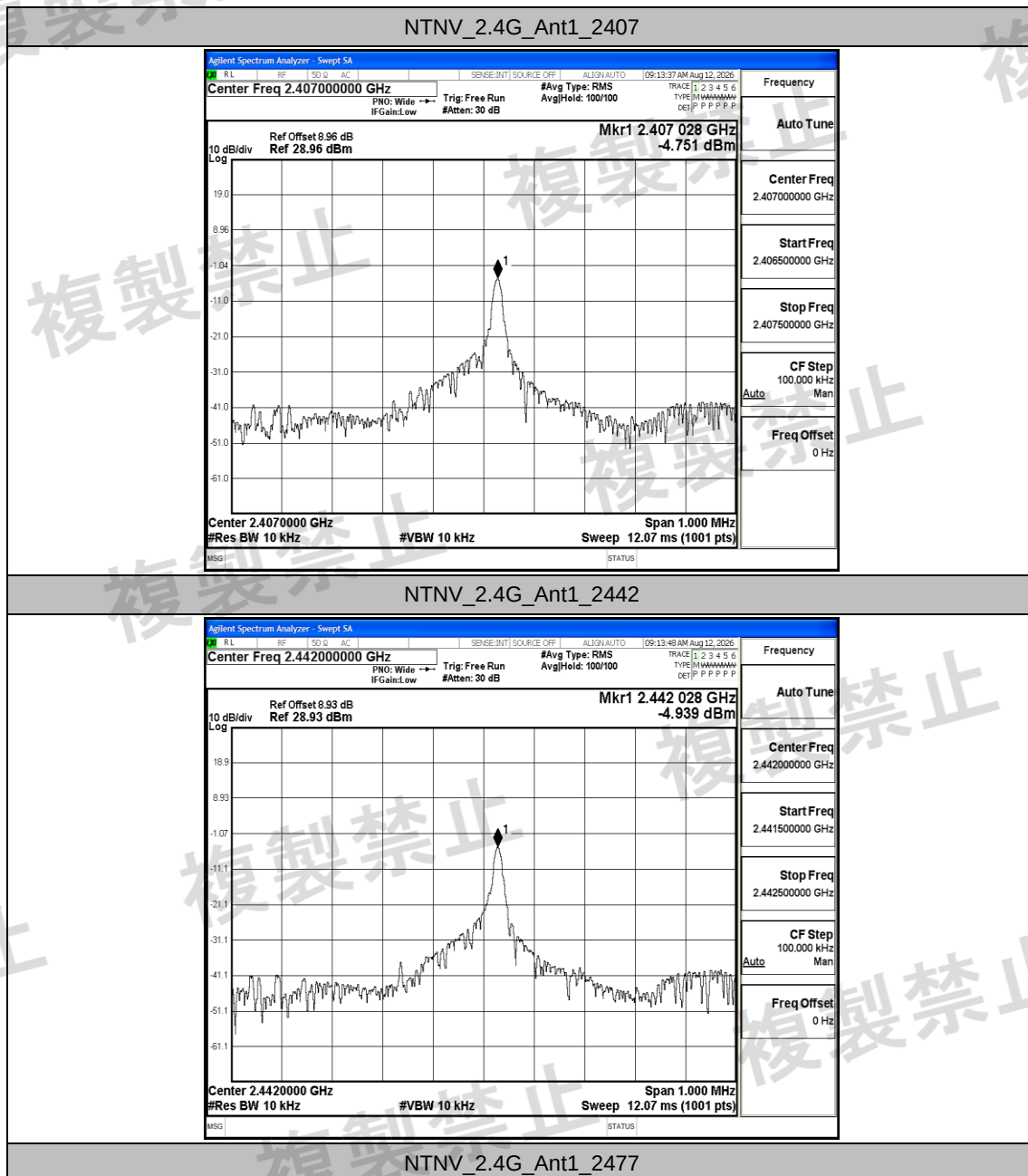
Temperature:	24.1°C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang Hai
Supervised by:	Fengliu Tang

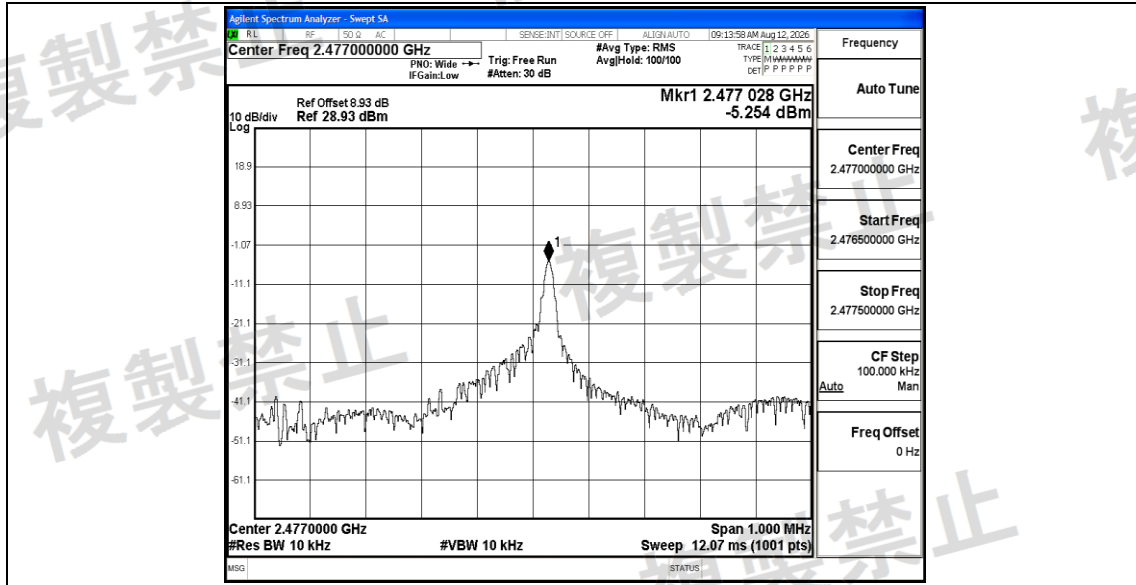
A.1 Frequency Error

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	2.4G	Ant1	2407	11.63274	±50	PASS
			2442	11.46601	±50	PASS
			2477	11.30400	±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	2.4G	Ant1	2407	-2.41	0.57	≤10	PASS
			2442	-2.03	0.63	≤10	PASS
			2477	-2.11	0.62	≤10	PASS

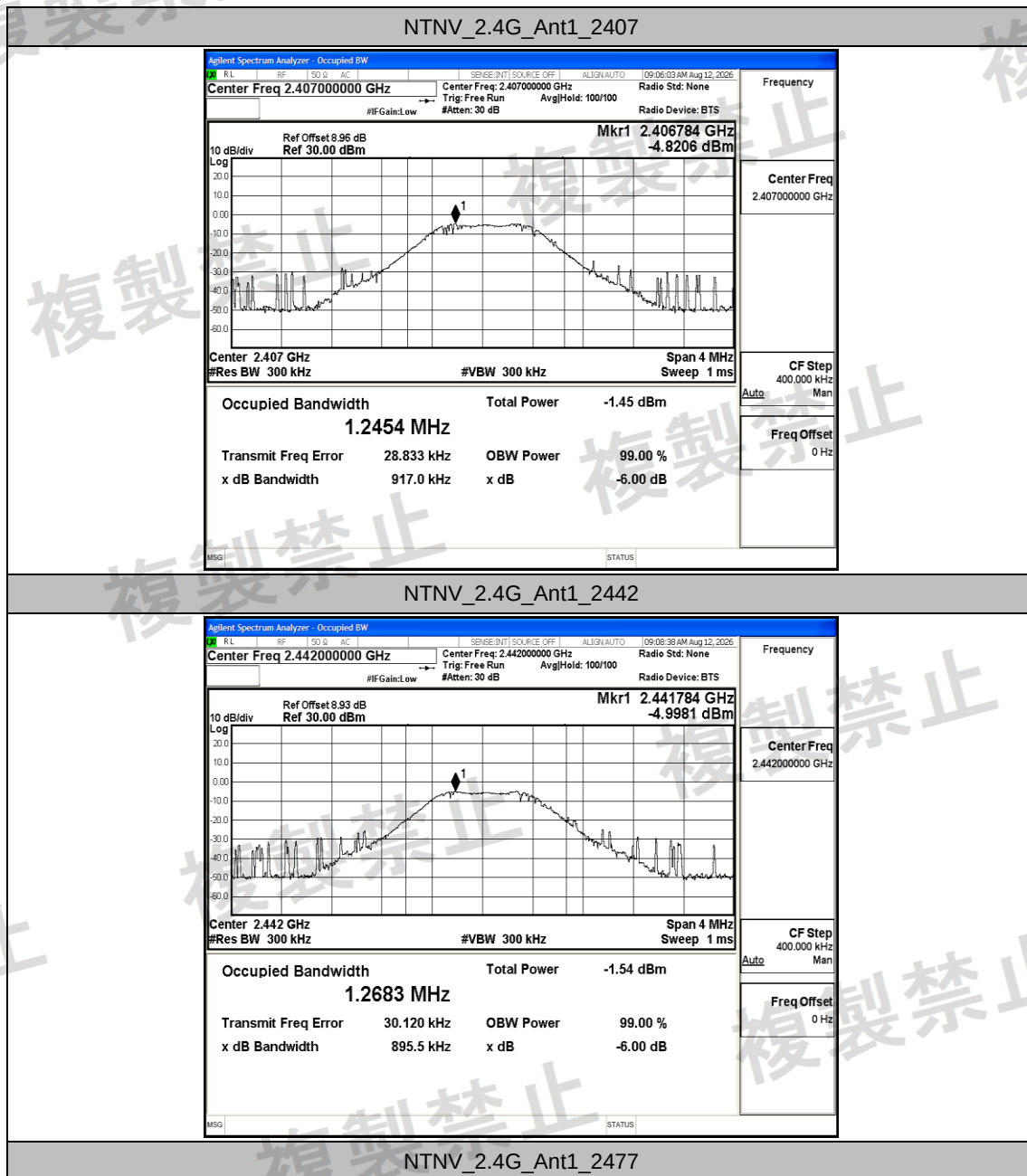
Tolerance								
Test Condition	Test Mode	Antenna	Frequency [MHz]	Power (mW)	RatedPower (mW)	Result (%)	Limit (%)	Verdict
NTNV	2.4G	Ant1	2407	0.57	1.0	-43.00	20	PASS
			2442	0.63	1.0	-37.00	20	PASS
			2477	0.62	1.0	-38.00	20	PASS

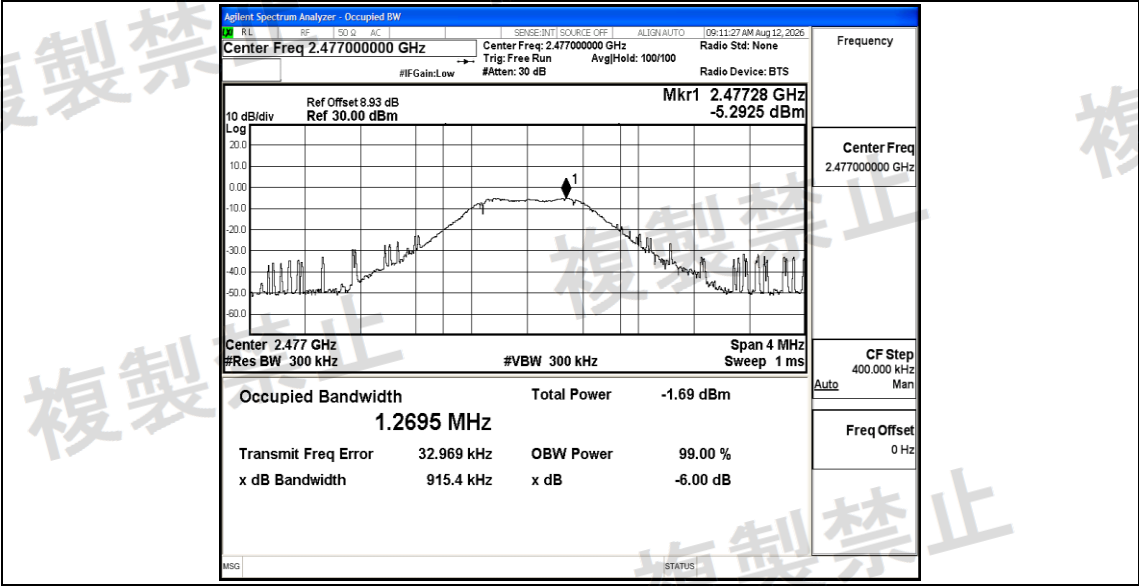
A.3 Occupied Bandwidth

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	2.4G	Ant1	2407	1.245	≤26	PASS
			2442	1.268	≤26	PASS
			2477	1.270	≤26	PASS

Test Graphs



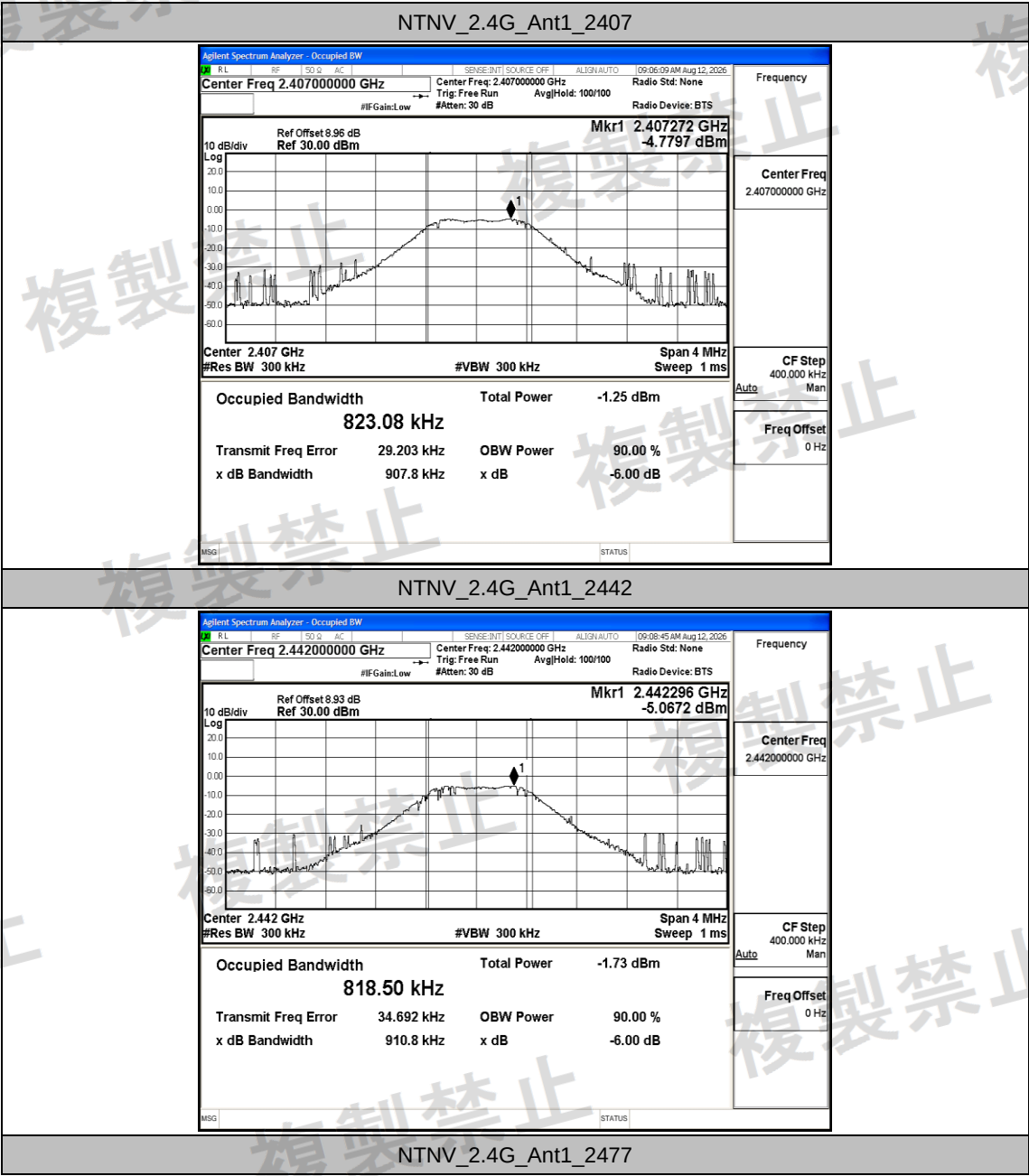


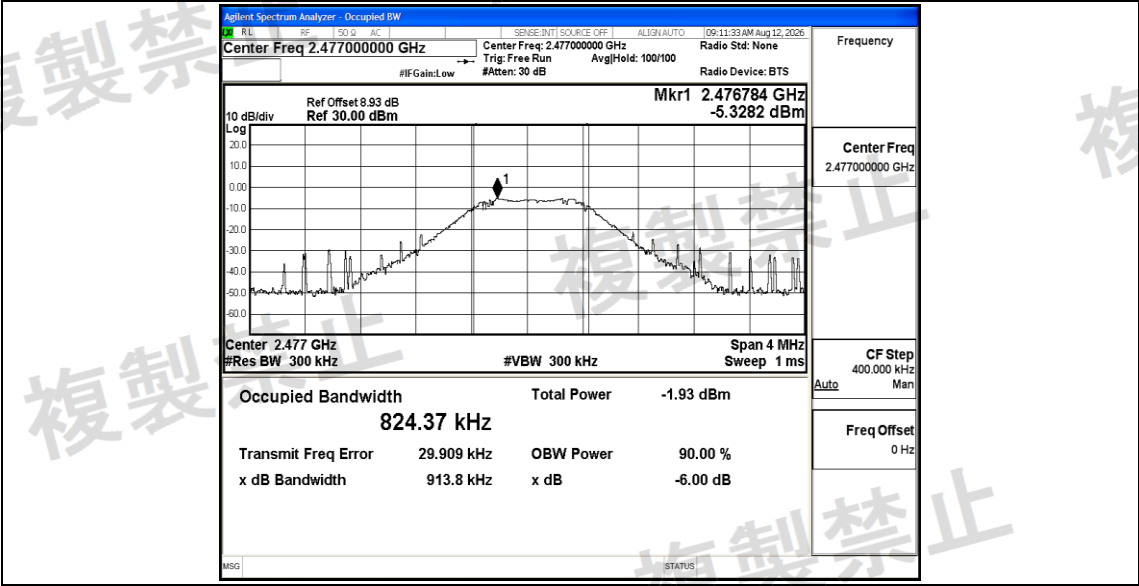
A.4 Spread Bandwidth

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	2.4G	Ant1	2407	0.823	---	PASS
			2442	0.819	---	PASS
			2477	0.824	---	PASS

Test Graphs



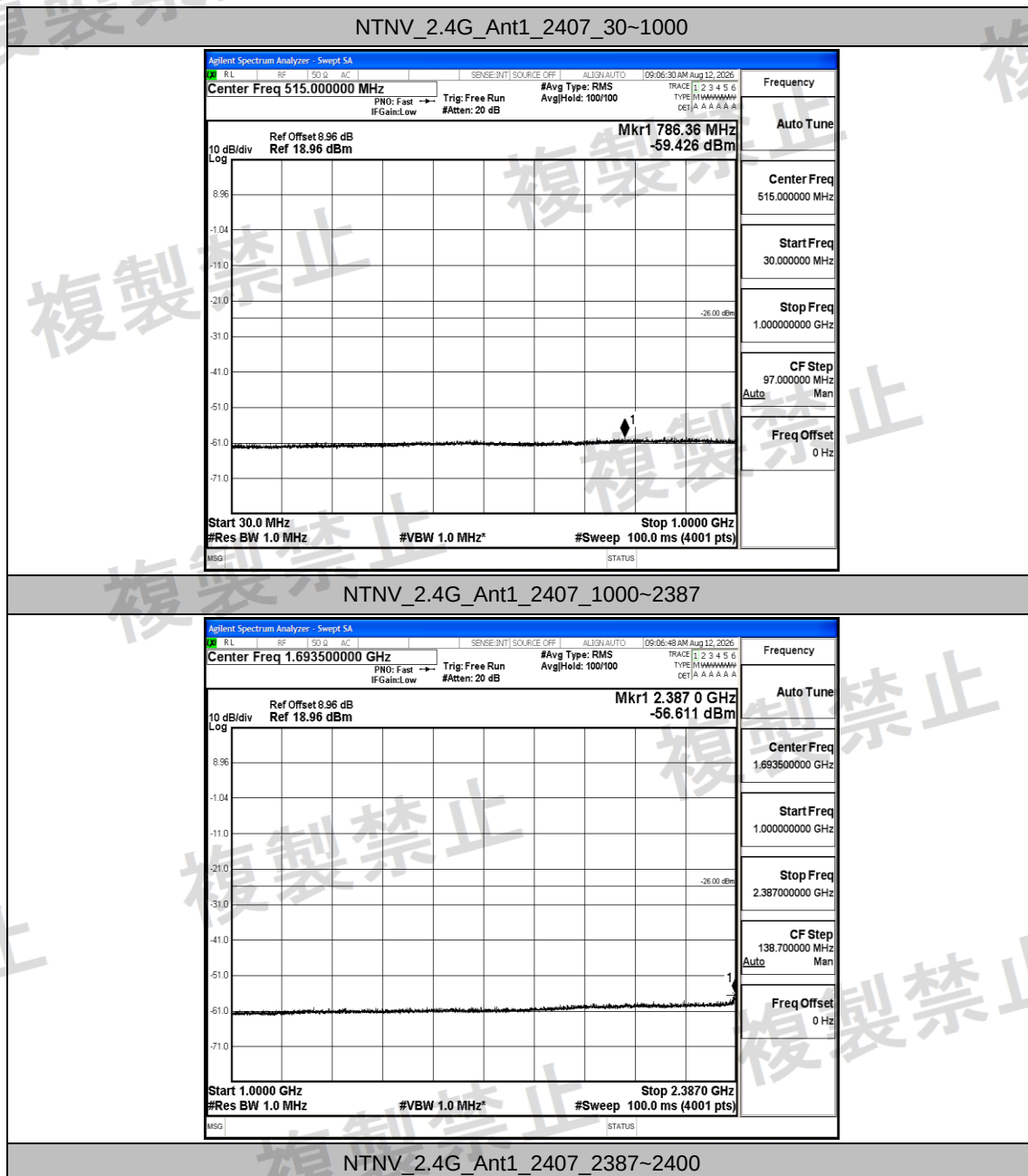


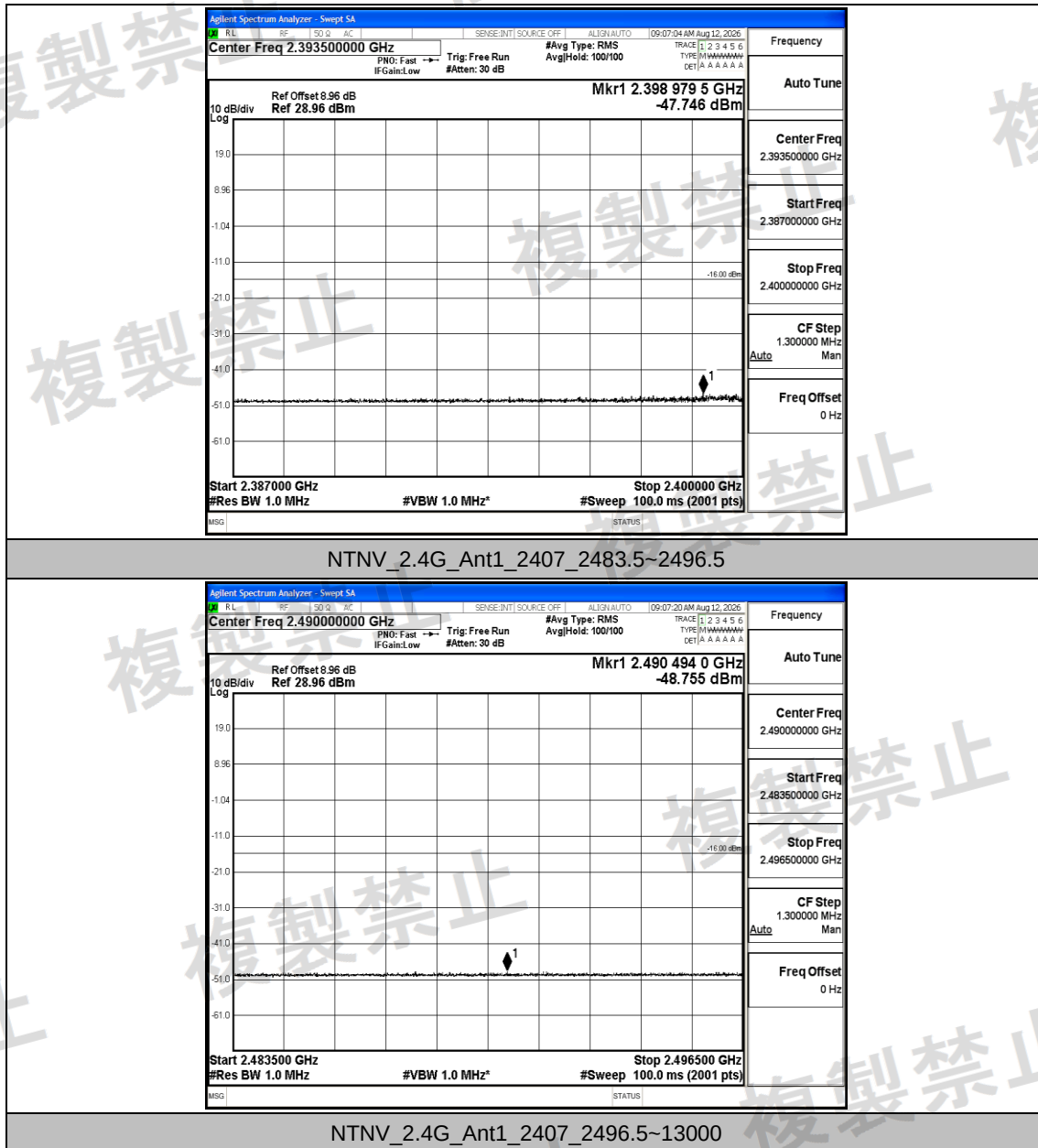
A.5 Spurious Emission of TX

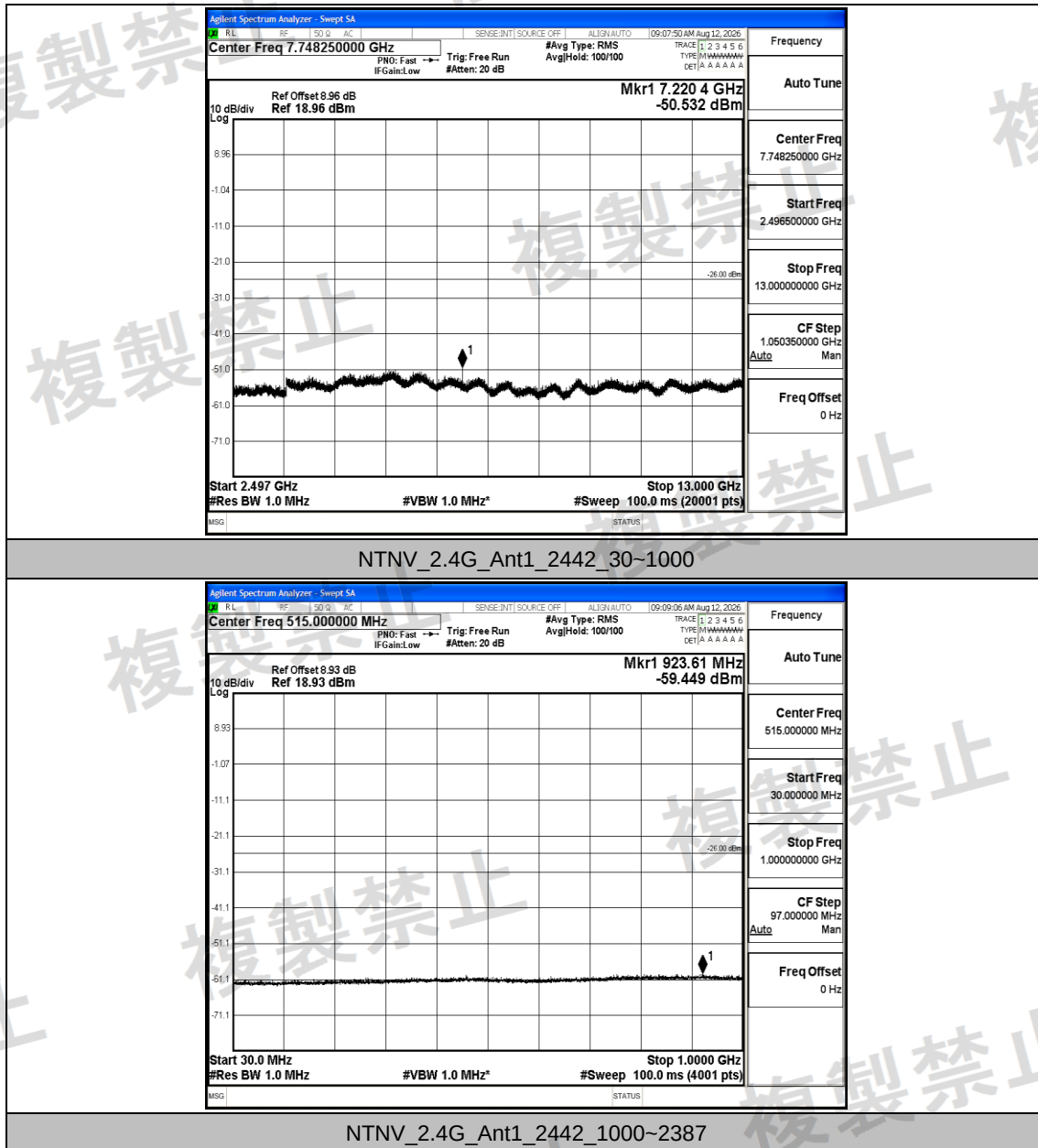
Test Result

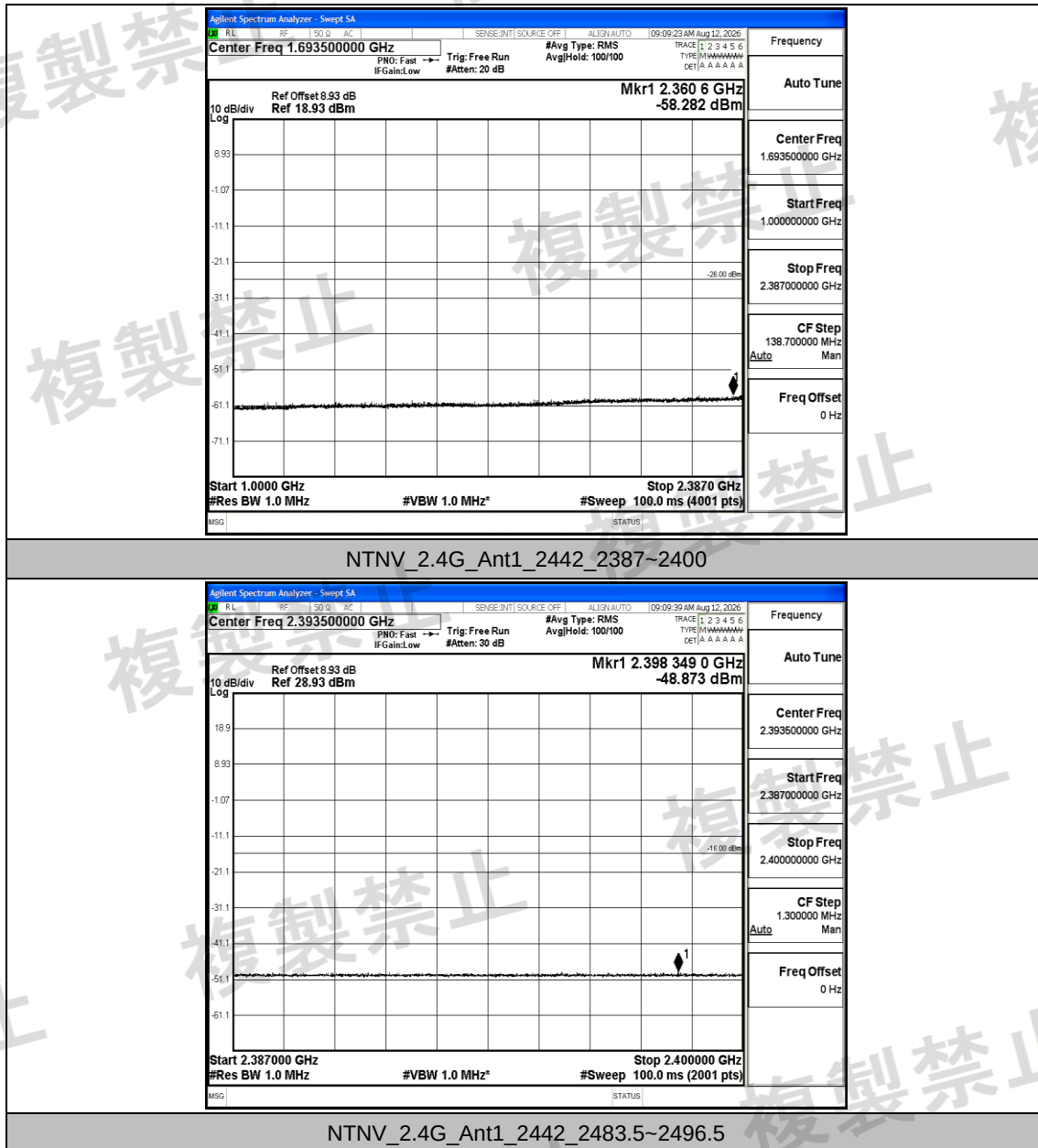
TestCondition	TestMode	Antenna	Frequency[MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	2.4G	Ant1	2407	30~1000	-59.43	≤-26	0.00114	≤2.5	PASS
				1000~2387	-56.61	≤-26	0.00218	≤2.5	PASS
				2387~2400	-47.75	≤-16	0.01679	≤25	PASS
				2483.5~2496.5	-48.76	≤-16	0.01330	≤25	PASS
				2496.5~13000	-50.53	≤-26	0.00885	≤2.5	PASS
			2442	30~1000	-59.45	≤-26	0.00114	≤2.5	PASS
				1000~2387	-58.28	≤-26	0.00149	≤2.5	PASS
				2387~2400	-48.87	≤-16	0.01297	≤25	PASS
				2483.5~2496.5	-48.75	≤-16	0.01334	≤25	PASS
				2496.5~13000	-51.05	≤-26	0.00785	≤2.5	PASS
			2477	30~1000	-59.42	≤-26	0.00114	≤2.5	PASS
				1000~2387	-58.13	≤-26	0.00154	≤2.5	PASS
				2387~2400	-49.00	≤-16	0.01259	≤25	PASS
				2483.5~2496.5	-47.83	≤-16	0.01648	≤25	PASS
				2496.5~13000	-50.66	≤-26	0.00859	≤2.5	PASS

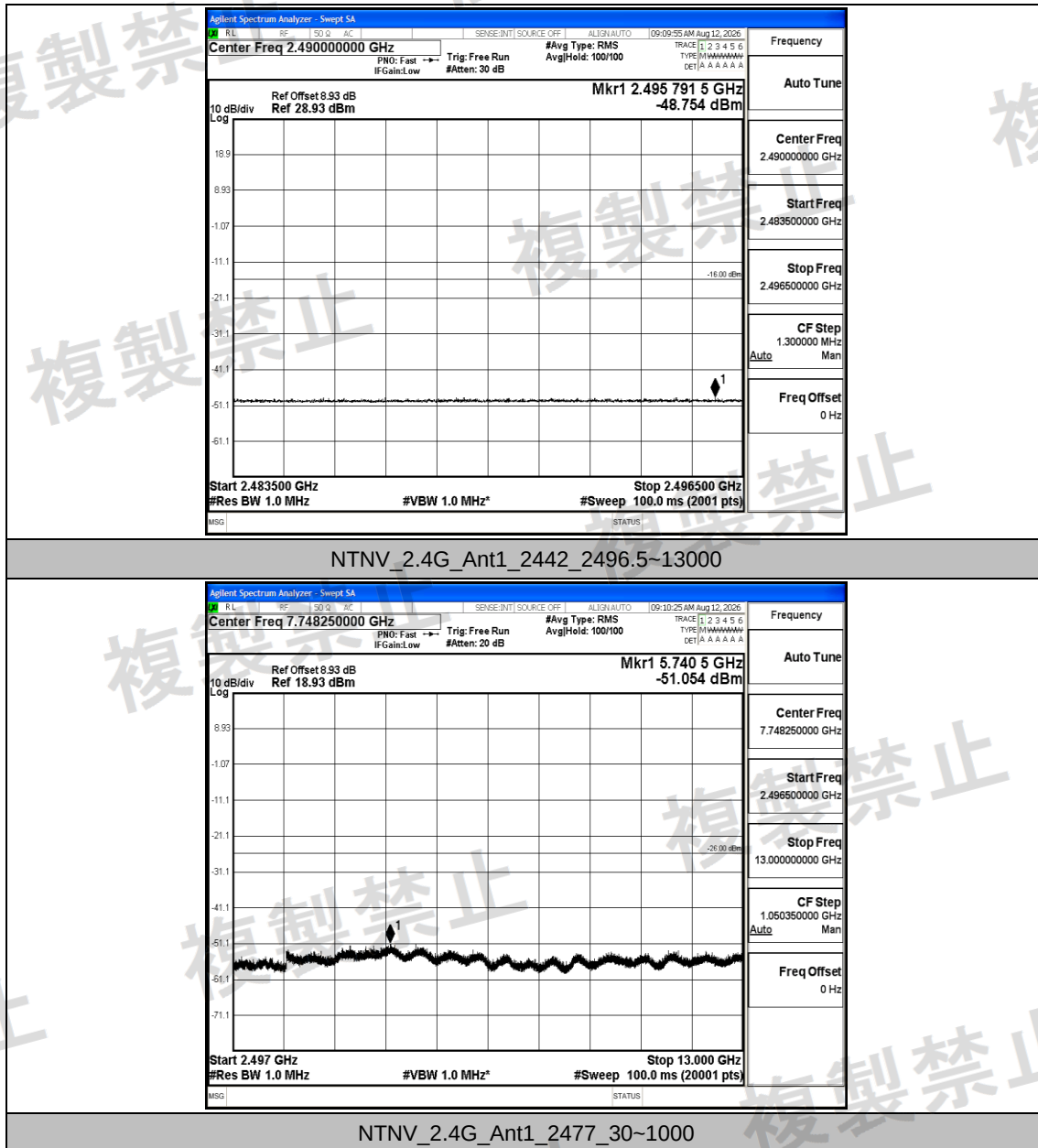
Test Graphs

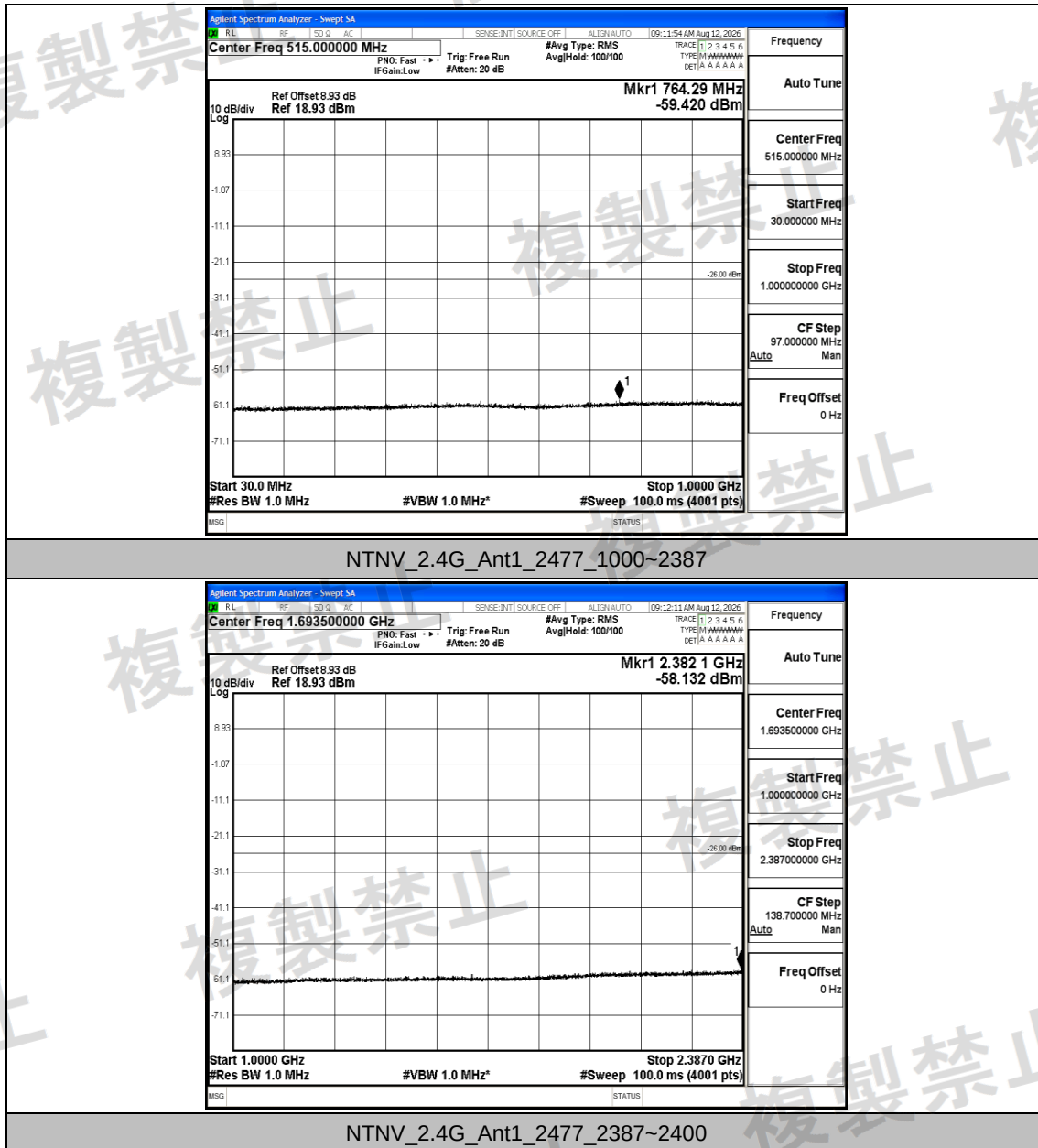


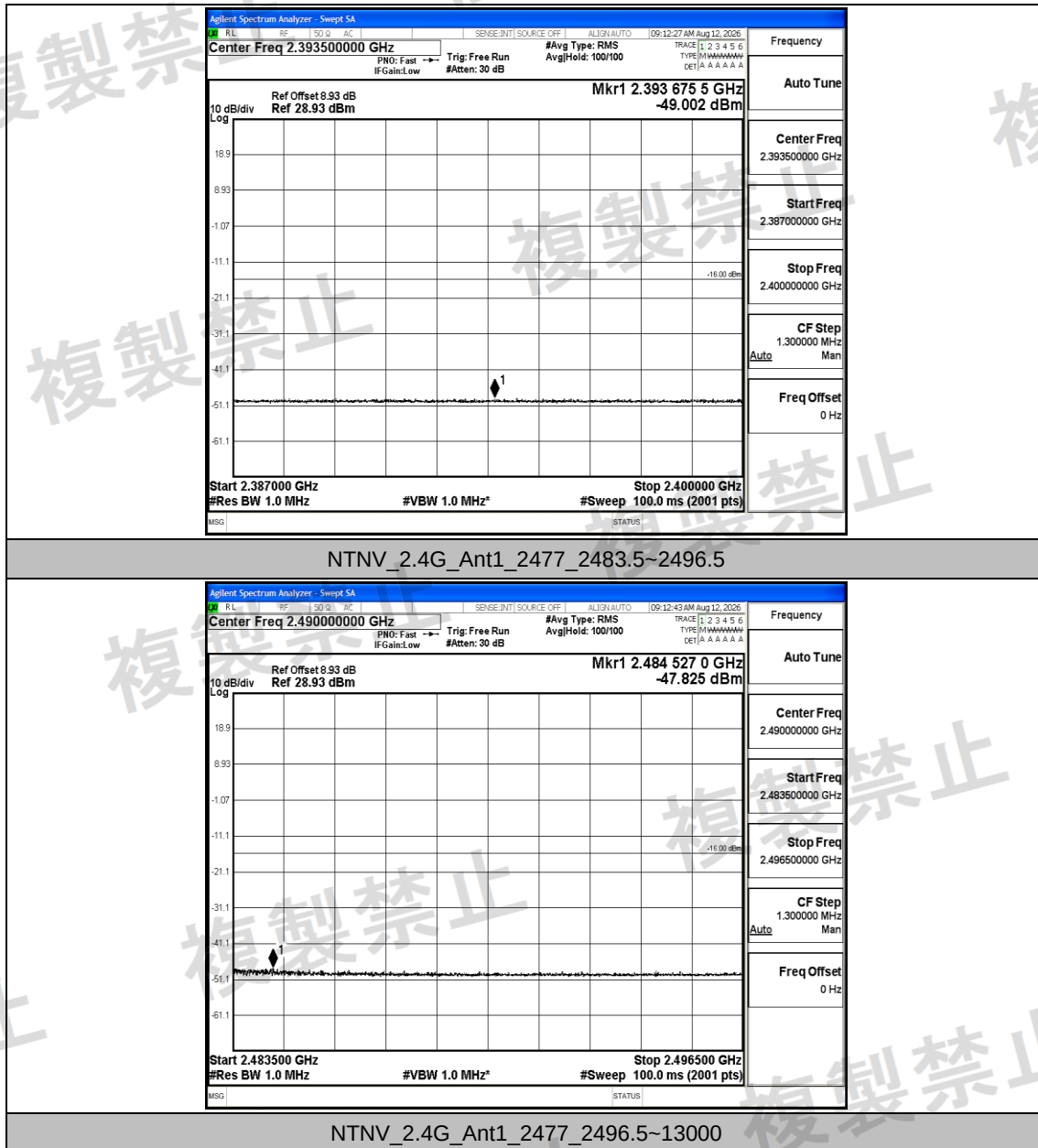


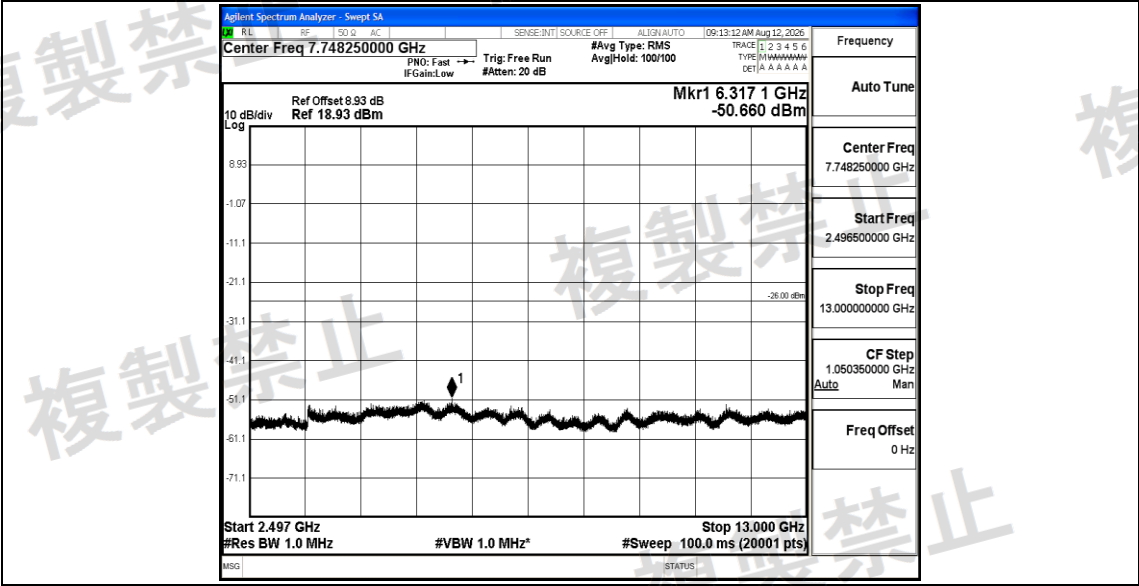












A.6 Spurious Emission of RX

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	2.4G	Ant1	2407	30~1000	-89.61	≤-54	0.00109	≤4	PASS
				1000~12500	-71.93	≤-47	0.06412	≤20	PASS
			2442	30~1000	-89.66	≤-54	0.00108	≤4	PASS
				1000~12500	-69.41	≤-47	0.11455	≤20	PASS
			2477	30~1000	-89.7	≤-54	0.00107	≤4	PASS
				1000~12500	-71.85	≤-47	0.06531	≤20	PASS

Test Graphs

