

Appendix A for 2.4G Test Data

Product Name: PCB module TX (Mini car GR red and white)
Test Model: YY-HF10TX

Environmental Conditions

Temperature:	24.1°C
Relative Humidity:	52.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang Hai
Supervised by:	Fengliu Tang

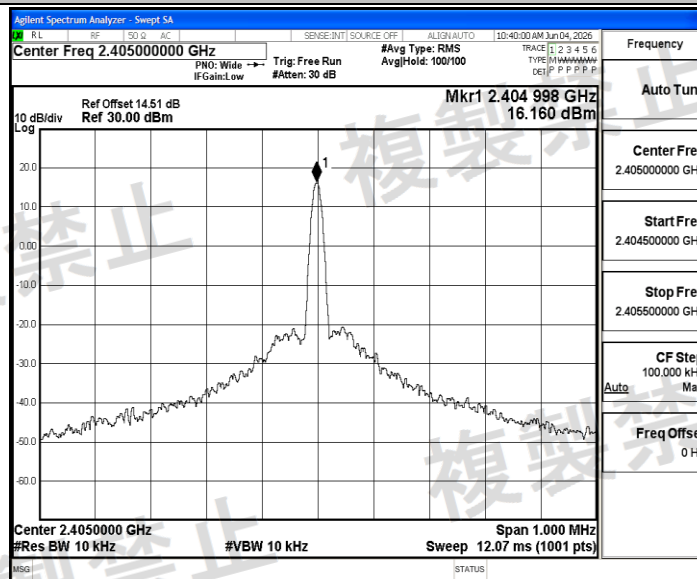
A.1 Frequency_Error

Test Result

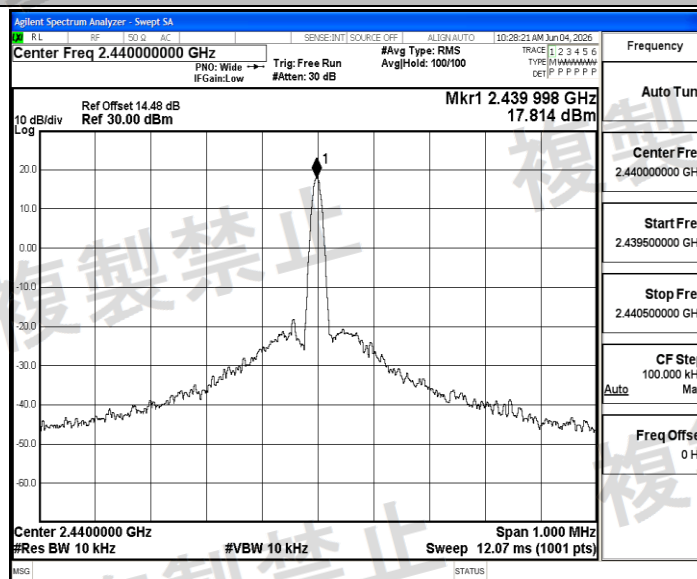
TestCondition	TestMode	Antenna	Frequency[MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	Frequency_Error	Ant1	2405	-0.83160	±50	PASS
			2440	-0.81967	±50	PASS
			2475	-0.80808	±50	PASS

Test Graphs

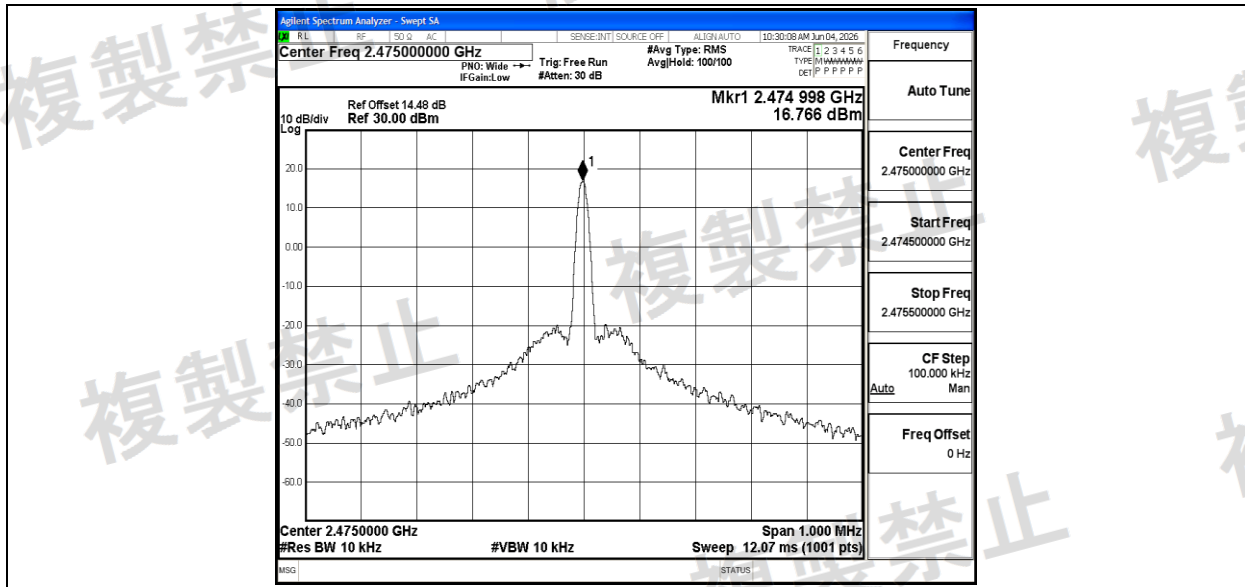
NTNV_2.4G_Ant1_2405



NTNV_2.4G_Ant1_2440



NTNV_2.4G_Ant1_2475



A.2 Antenna Power

Test Result

Antenna Power							
TestCondition	TestMode	Antenna	Frequency[MHz]	Result(dBm)	Result(mW)	Limit(mW)	Verdict
NTNV	2.4G	Ant	2405	1.71	1.4825	≤10	PASS
			2440	2.70	1.8621	≤10	PASS
			2475	2.50	1.7783	≤10	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Frequency[MHz]	Power (mW)	RatedPower (mW)	Result (%)	Limit (%)	Verdict
NTNV	2.4G	Ant	2405	1.4825	2	-25.88	+20	PASS
			2440	1.8621	2	-6.90	+20	PASS
			2475	1.7783	2	-11.09	+20	PASS

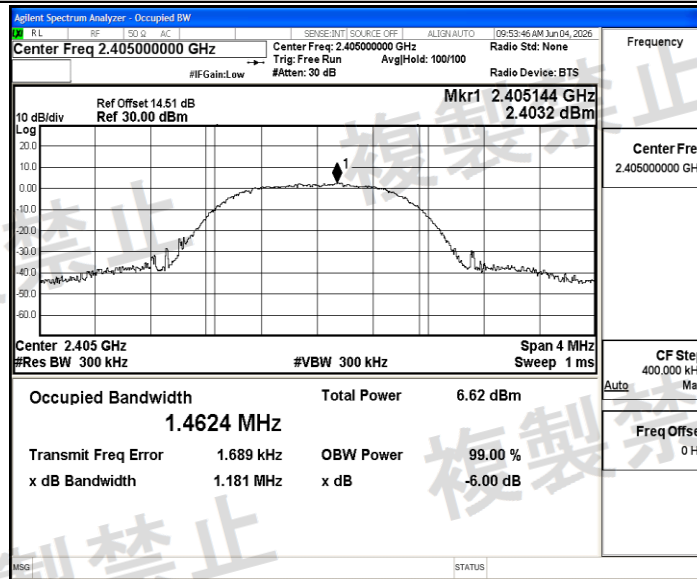
A.3 Occupied Bandwidth

Test Result

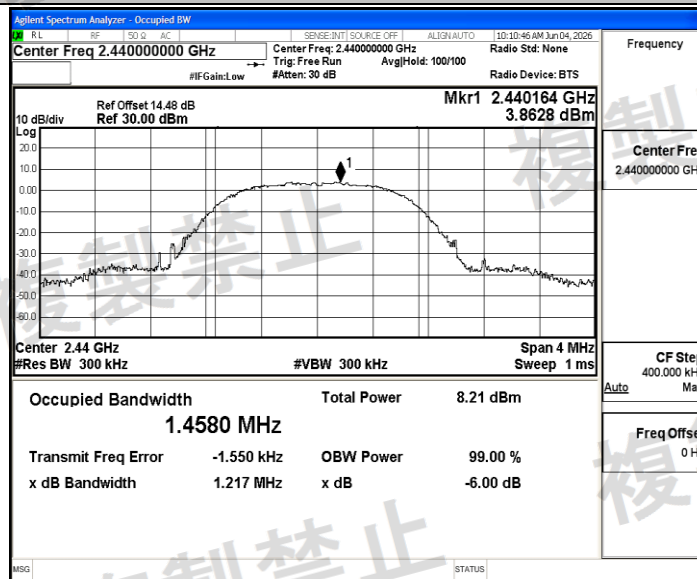
TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	2.4G	Ant1	2405	1.462	≤26	PASS
			2440	1.458	≤26	PASS
			2475	1.472	≤26	PASS

Test Graphs

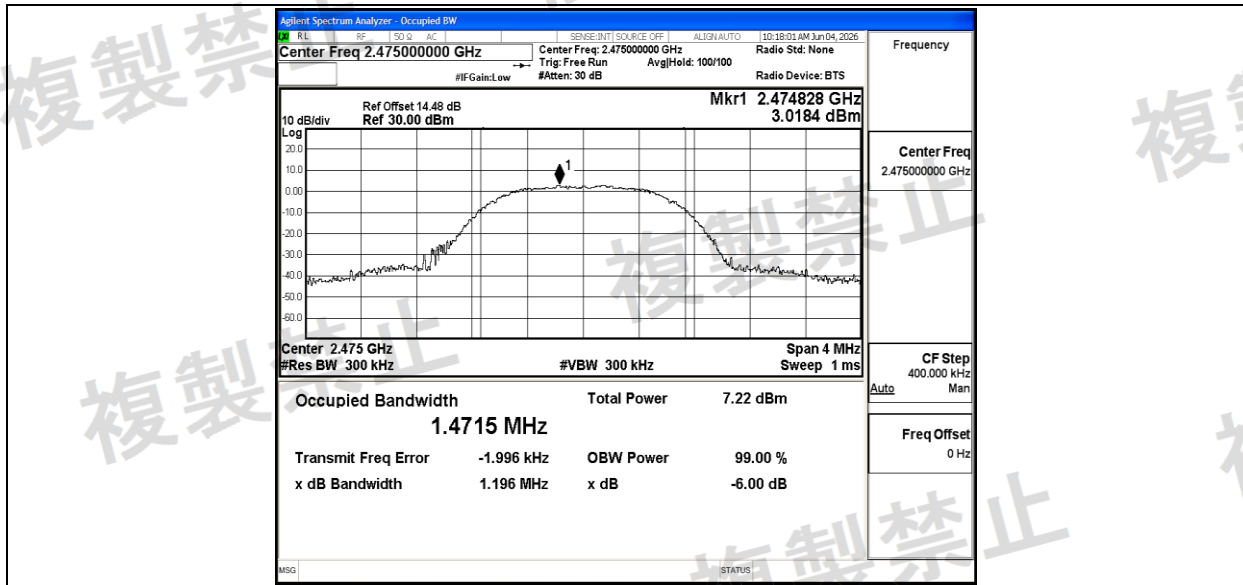
NTNV_2.4G_Ant1_2405



NTNV_2.4G_Ant1_2440



NTNV_2.4G_Ant1_2475

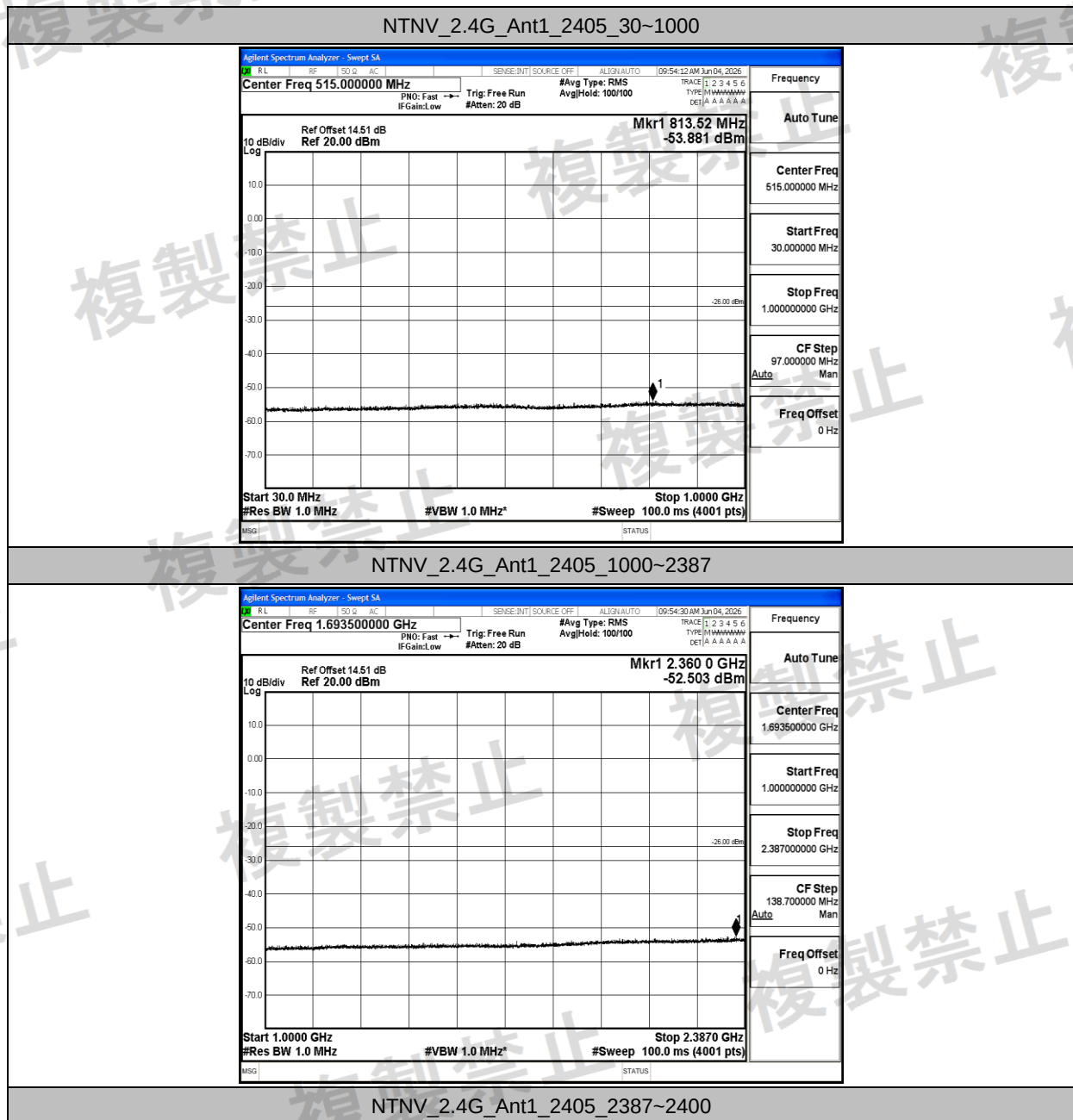


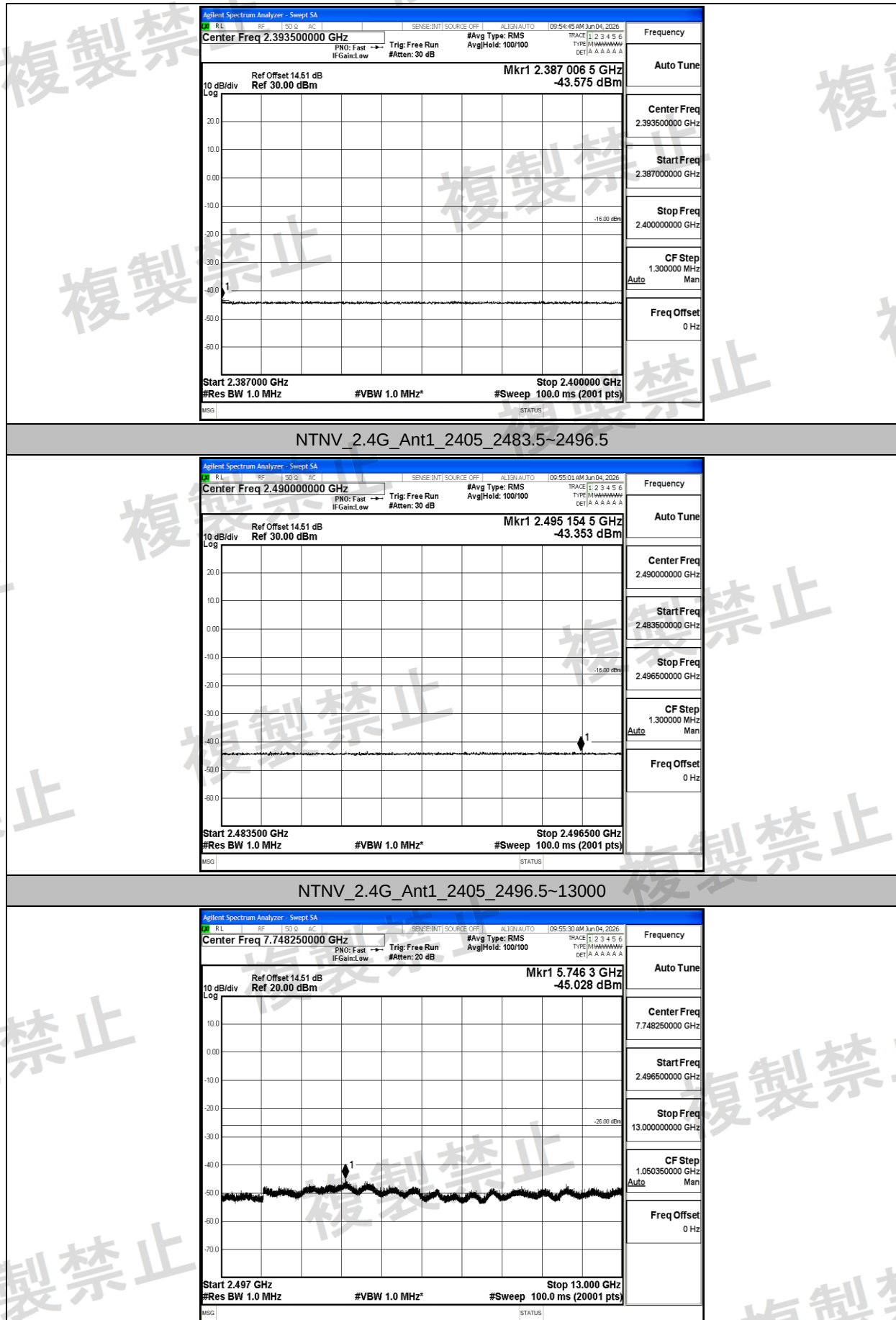
A.4 Spurious Emission of TX

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	2.4G	Ant1	2405	30~1000	-53.88	≤-26	0.00409	≤2.5	PASS
				1000~2387	-52.50	≤-26	0.00562	≤2.5	PASS
				2387~2400	-43.58	≤-16	0.04385	≤25	PASS
				2483.5~2496.5	-43.35	≤-16	0.04624	≤25	PASS
				2496.5~13000	-45.03	≤-26	0.03141	≤2.5	PASS
			2440	30~1000	-53.98	≤-26	0.00400	≤2.5	PASS
				1000~2387	-52.65	≤-26	0.00543	≤2.5	PASS
				2387~2400	-43.43	≤-16	0.04539	≤25	PASS
				2483.5~2496.5	-43.39	≤-16	0.04581	≤25	PASS
				2496.5~13000	-45.42	≤-26	0.02871	≤2.5	PASS
			2475	30~1000	-54.08	≤-26	0.00391	≤2.5	PASS
				1000~2387	-52.60	≤-26	0.00550	≤2.5	PASS
				2387~2400	-43.44	≤-16	0.04529	≤25	PASS
				2483.5~2496.5	-43.38	≤-16	0.04592	≤25	PASS
				2496.5~13000	-45.55	≤-26	0.02786	≤2.5	PASS

Test Graphs



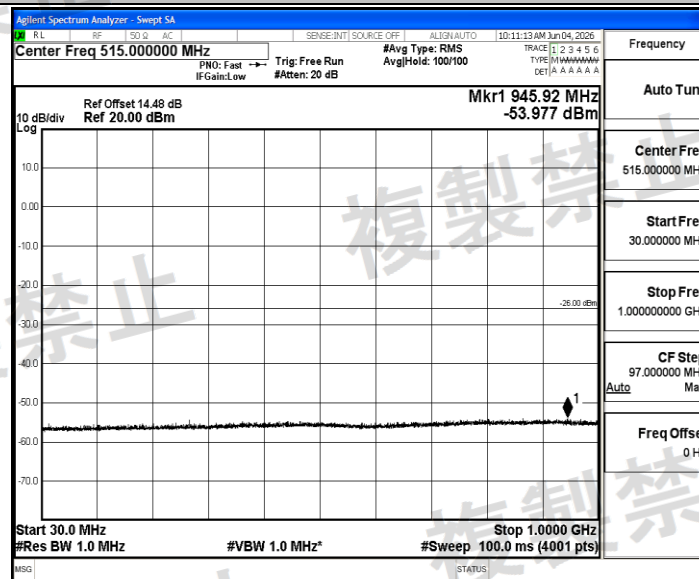


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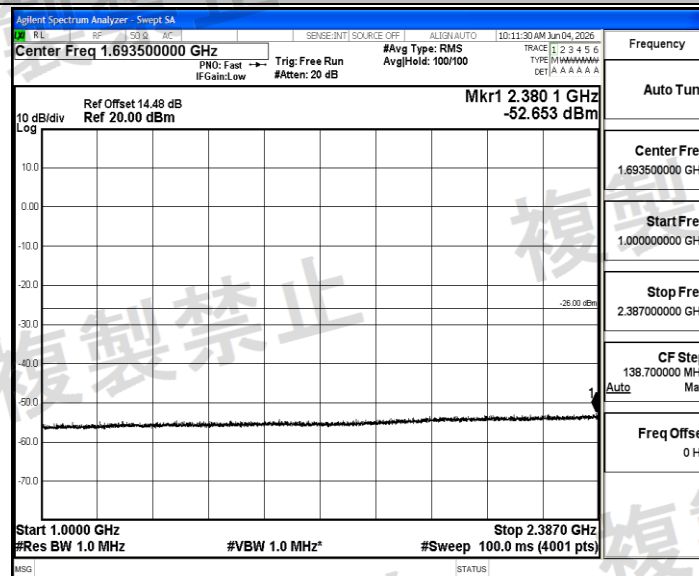
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NTNV_2.4G_Ant1_2440_30~1000



NTNV_2.4G_Ant1_2440_1000~2387



NTNV_2.4G_Ant1_2440_2387~2400

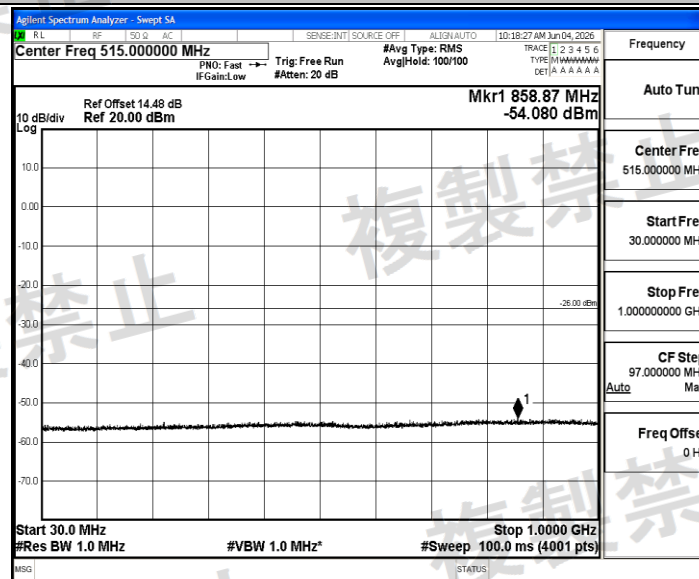


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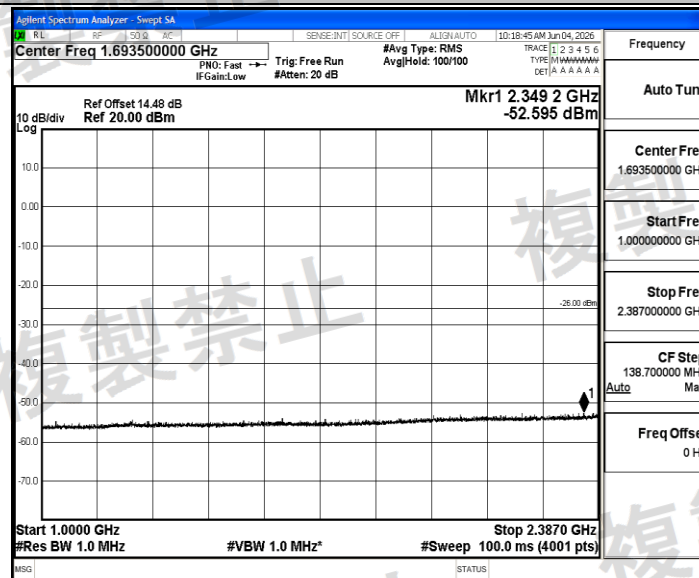
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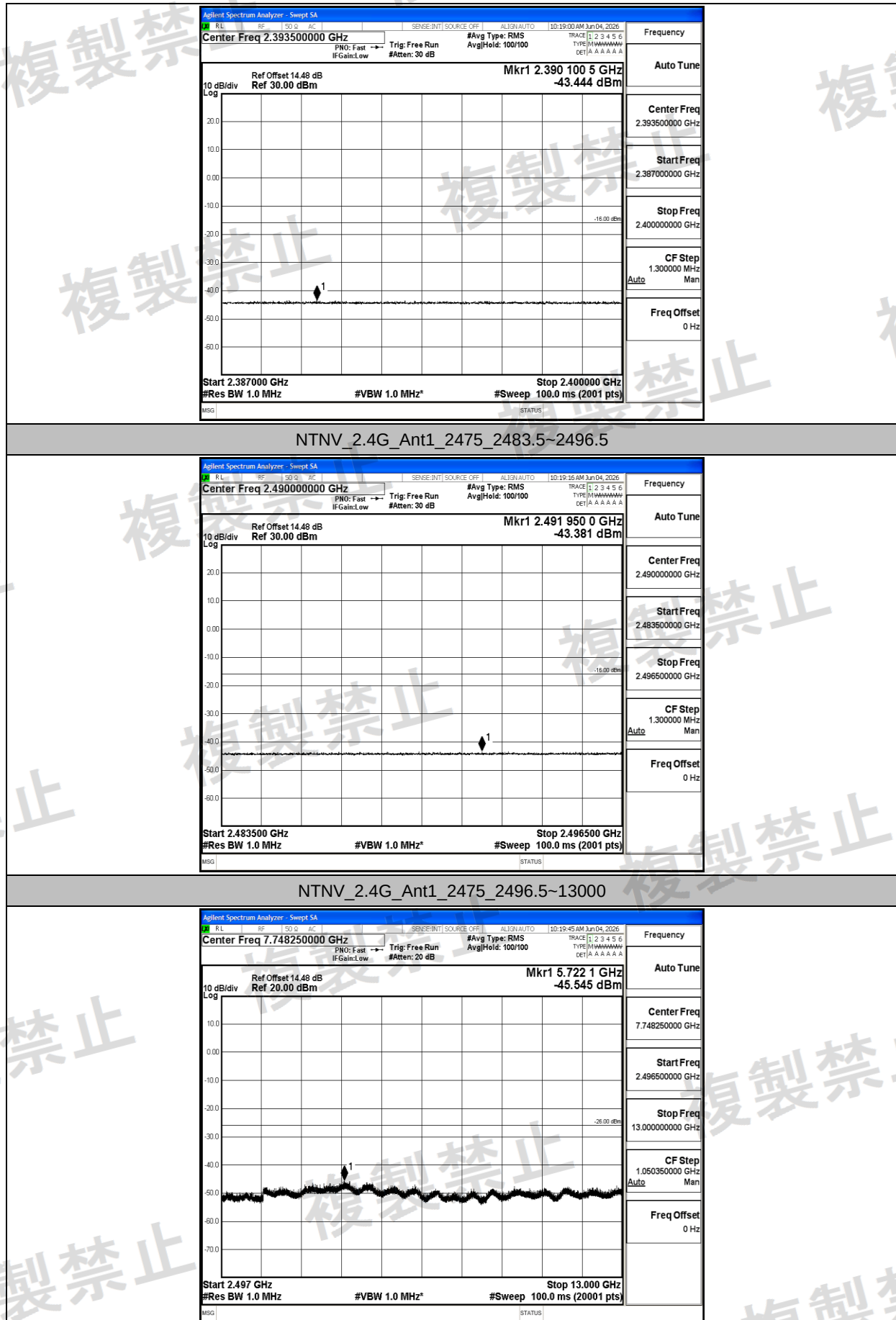
NTNV_2.4G_Ant1_2475_30~1000



NTNV_2.4G_Ant1_2475_1000~2387



NTNV_2.4G_Ant1_2475_2387~2400



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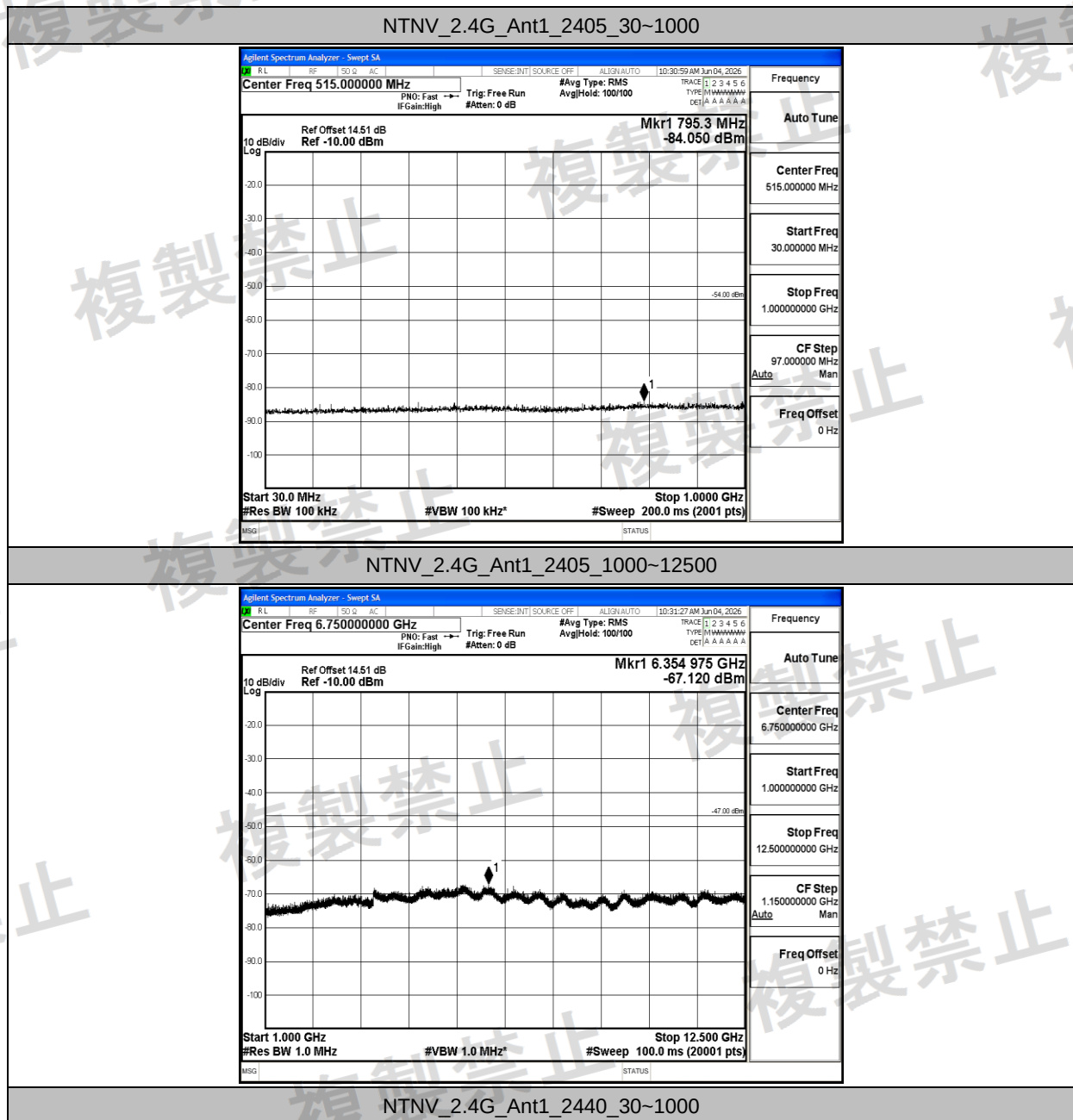
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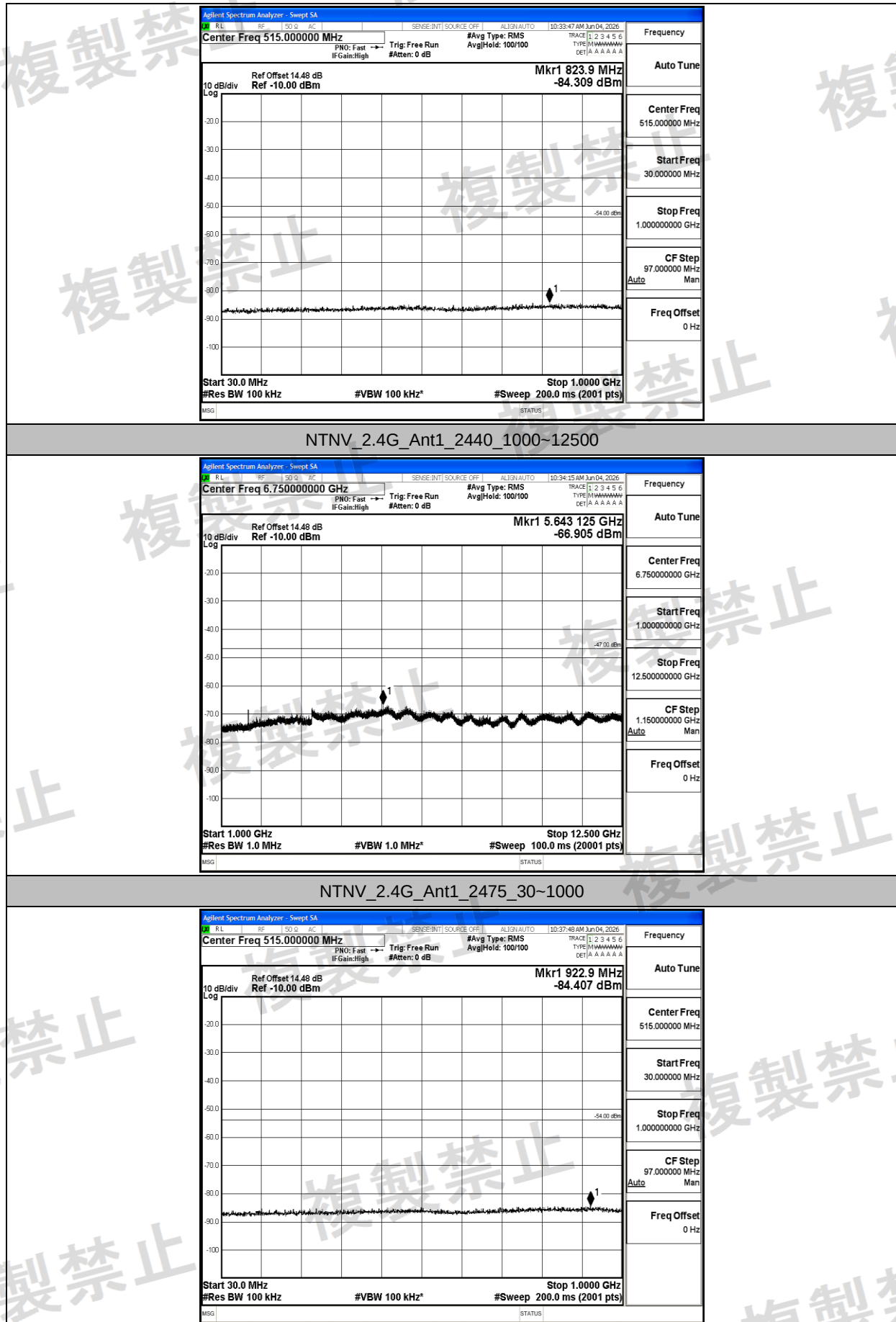
A.5 Spurious Emission of RX

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	2.4G	Ant1	2405	30~1000	-84.05	≤-54	0.00394	≤4	PASS
				1000~12500	-67.12	≤-47	0.19409	≤20	PASS
			2440	30~1000	-84.31	≤-54	0.00371	≤4	PASS
				1000~12500	-66.91	≤-47	0.20370	≤20	PASS
			2475	30~1000	-84.41	≤-54	0.00362	≤4	PASS
				1000~12500	-66.95	≤-47	0.20184	≤20	PASS

Test Graphs





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