

Appendix B for BT LE Test Data

Product Name: 2.4G+Bluetooth dual-mode wireless mouse

Test Model: YQ-145

Environmental Conditions

Temperature:	23.3°C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang



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B.1 Frequency Error

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	Frequency Error	Ant1	2402	-0.83264	±50	PASS
			2440	-0.81967	±50	PASS
			2480	-0.80645	±50	PASS



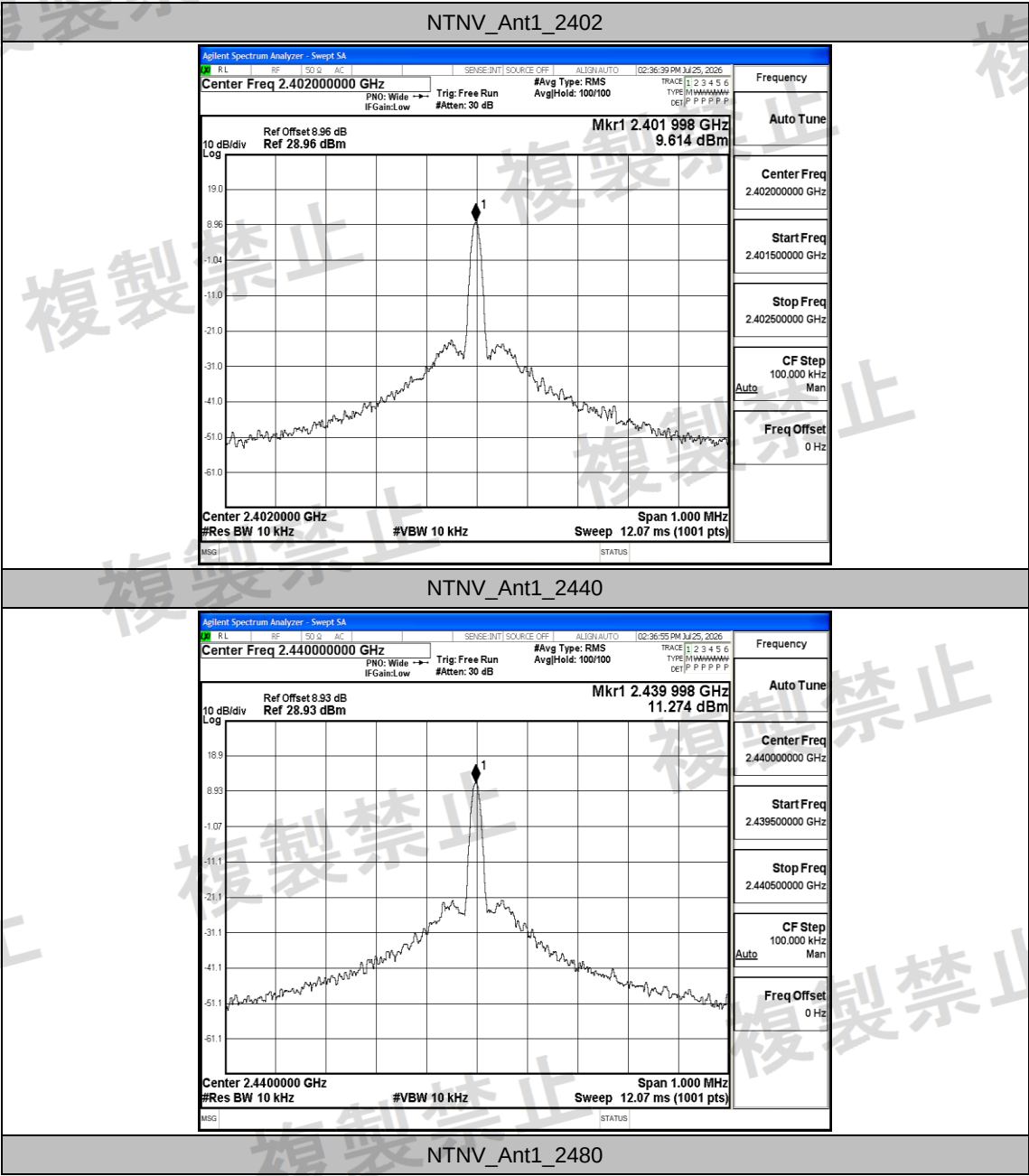
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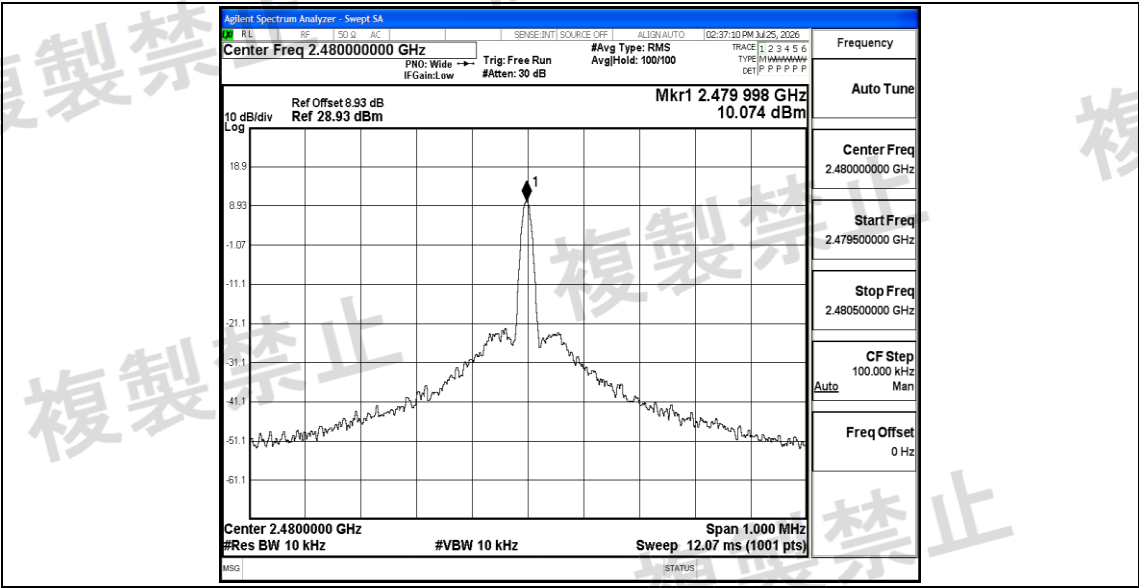
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B.2 Antenna Power and E.I.R.P

Test Result

Antenna Power							
TestCondition	TestMode	Antenna	Frequency[MHz]	Result [dBm]	Result [mW]	Limit [mW]	Verdict
NTNV	BLE	Ant1	2402	2.55	1.80	≤10	PASS
			2440	6.26	4.23	≤10	PASS
			2480	5.04	3.19	≤10	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Frequency[MHz]	Power (mW)	Rated Power (mW)	Result (%)	Limit (%)	Verdict
NTNV	BLE	Ant1	2402	1.80	4.0	-55.00%	+20	PASS
			2440	4.23	4.0	5.75%	+20	PASS
			2480	3.19	4.0	-20.25%	+20	PASS

EIRP								
TestCondition	TestMode	Antenna	Frequency [MHz]	Measured Power (dBm/MHz)	Antenna gain (dBi)	EIRP (dBm)	Limit (dBm)	Verdict
NTNV	BLE	Ant1	2402	2.55	3.74	6.29	≤12.14	PASS
			2440	6.26	3.74	10.00	≤12.14	PASS
			2480	5.04	3.74	8.78	≤12.14	PASS



B.3 Occupied Bandwidth

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE	Ant1	2402	1.014	≤26	PASS
			2440	1.019	≤26	PASS
			2480	1.020	≤26	PASS



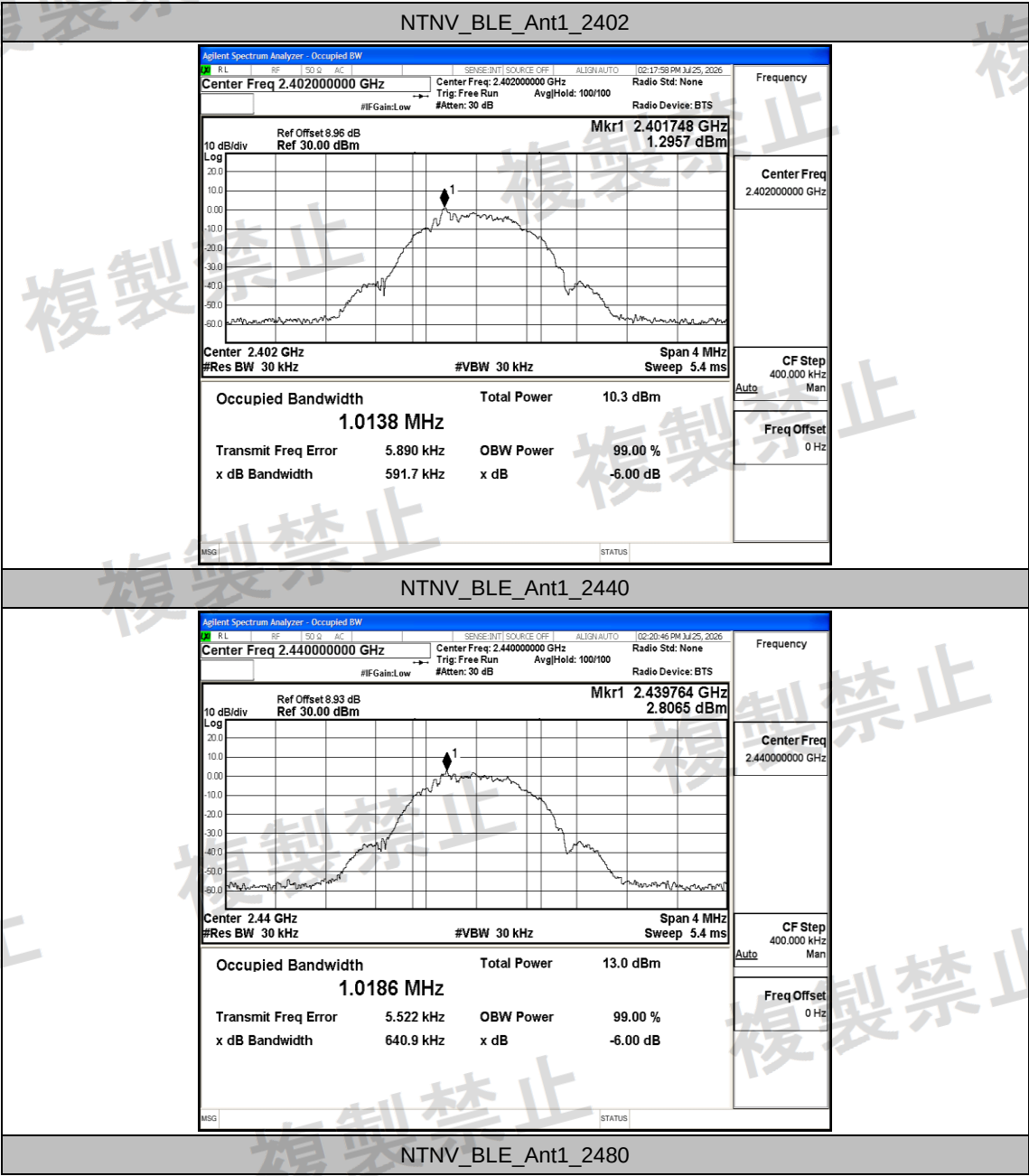
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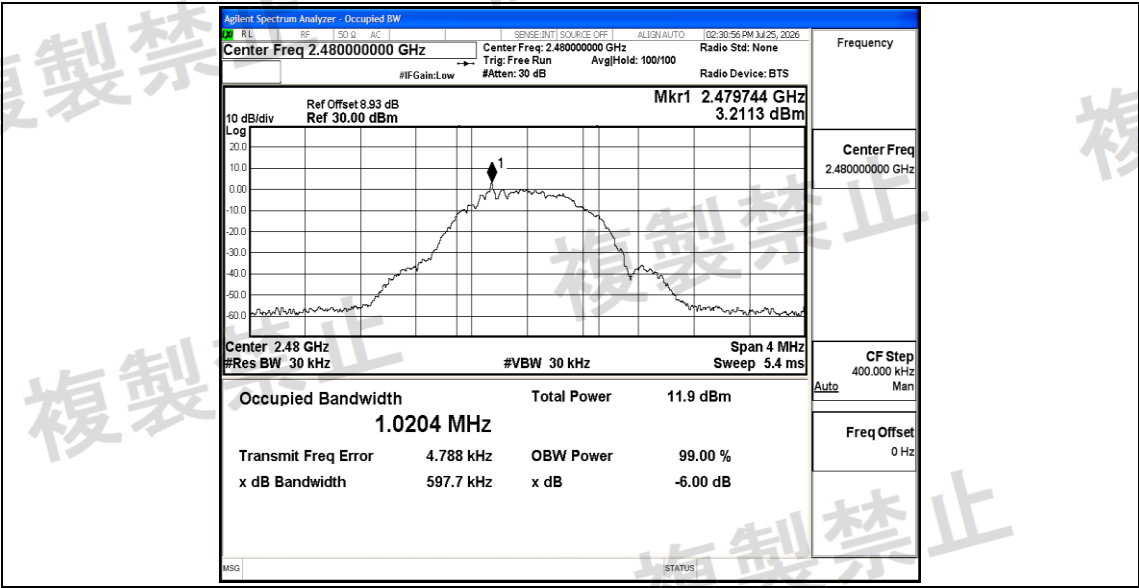
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B.4 Spread Bandwidth

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE	Ant1	2402	0.664	--	PASS
			2440	0.669	--	PASS
			2480	0.666	--	PASS



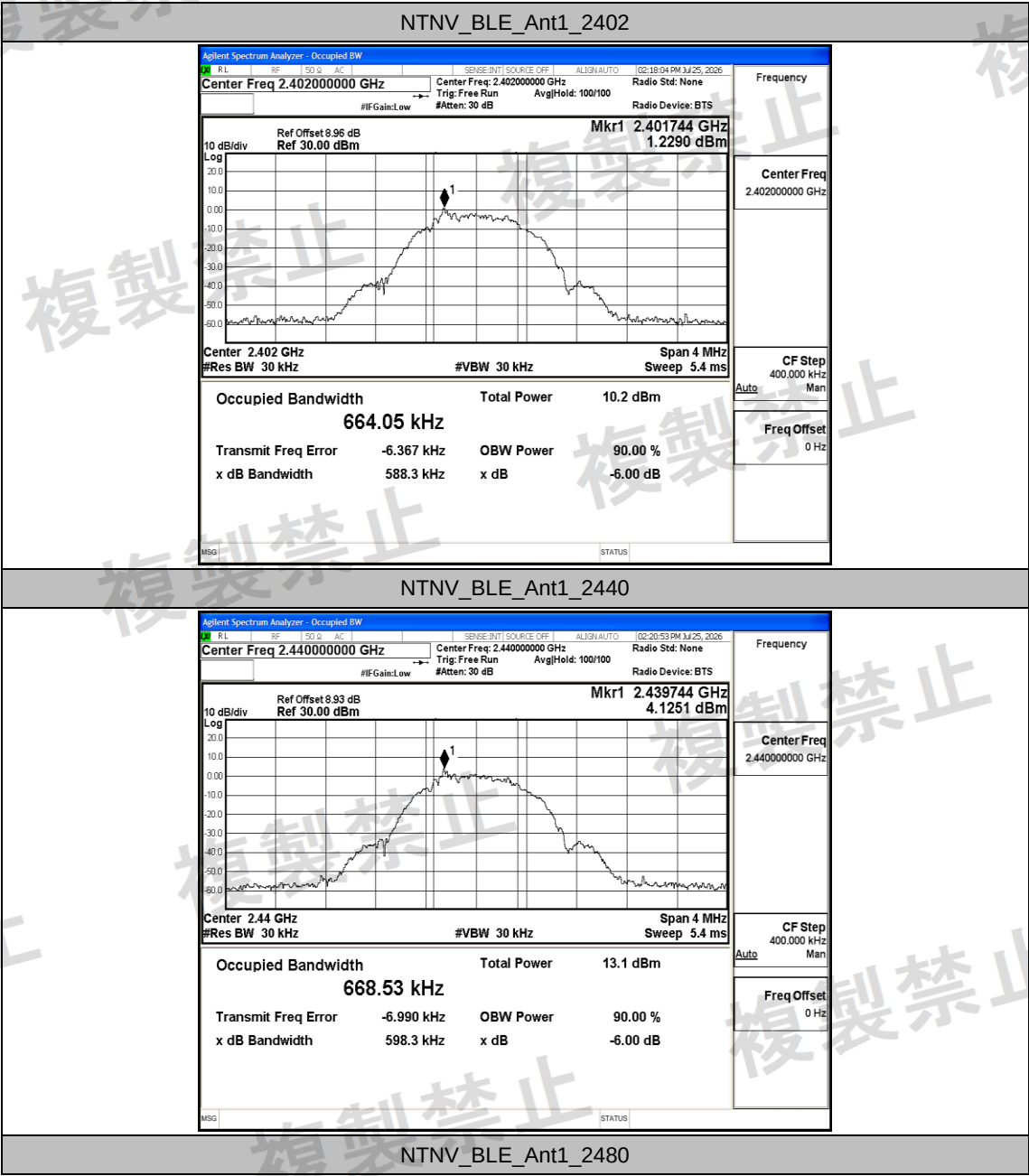
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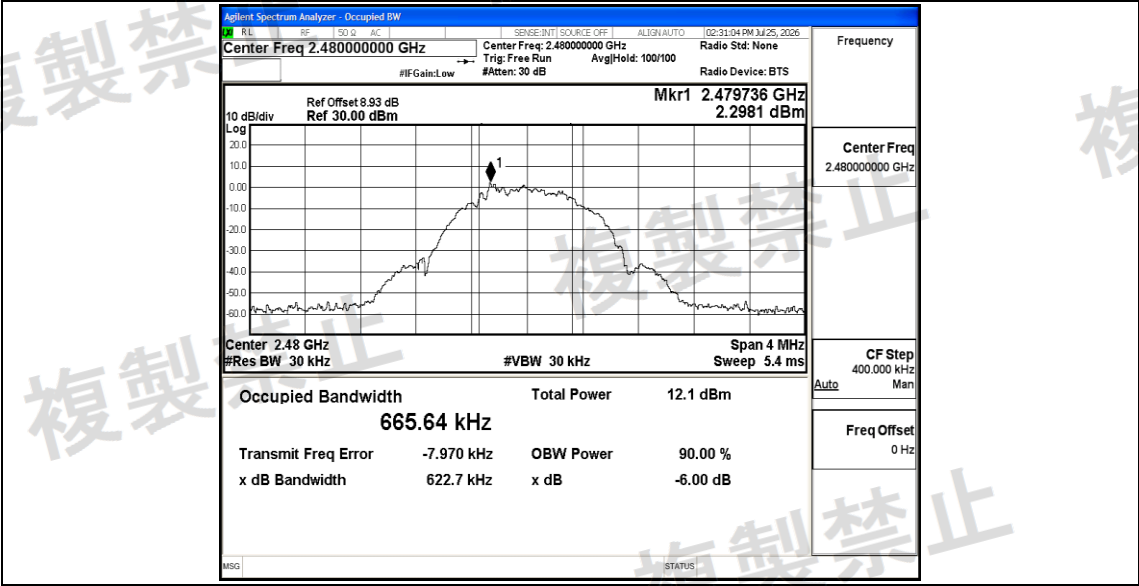
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B.5 Spurious Emission of TX

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE	Ant1	2402	30~1000	-45.16	≤-26	0.03048	≤2.5	PASS
				1000~2387	-57.74	≤-26	0.00168	≤2.5	PASS
				2387~2400	-39.35	≤-16	0.11614	≤25	PASS
				2483.5~2496.5	-49.00	≤-16	0.01259	≤25	PASS
				2496.5~13000	-51.19	≤-26	0.00760	≤2.5	PASS
			2440	30~1000	-45.18	≤-26	0.03034	≤2.5	PASS
				1000~2387	-57.87	≤-26	0.00163	≤2.5	PASS
				2387~2400	-49.24	≤-16	0.01191	≤25	PASS
				2483.5~2496.5	-49.10	≤-16	0.01230	≤25	PASS
				2496.5~13000	-51.04	≤-26	0.00787	≤2.5	PASS
			2480	30~1000	-45.55	≤-26	0.02786	≤2.5	PASS
				1000~2387	-58.22	≤-26	0.00151	≤2.5	PASS
				2387~2400	-49.08	≤-16	0.01236	≤25	PASS
				2483.5~2496.5	-48.72	≤-16	0.01343	≤25	PASS
				2496.5~13000	-51.62	≤-26	0.00689	≤2.5	PASS



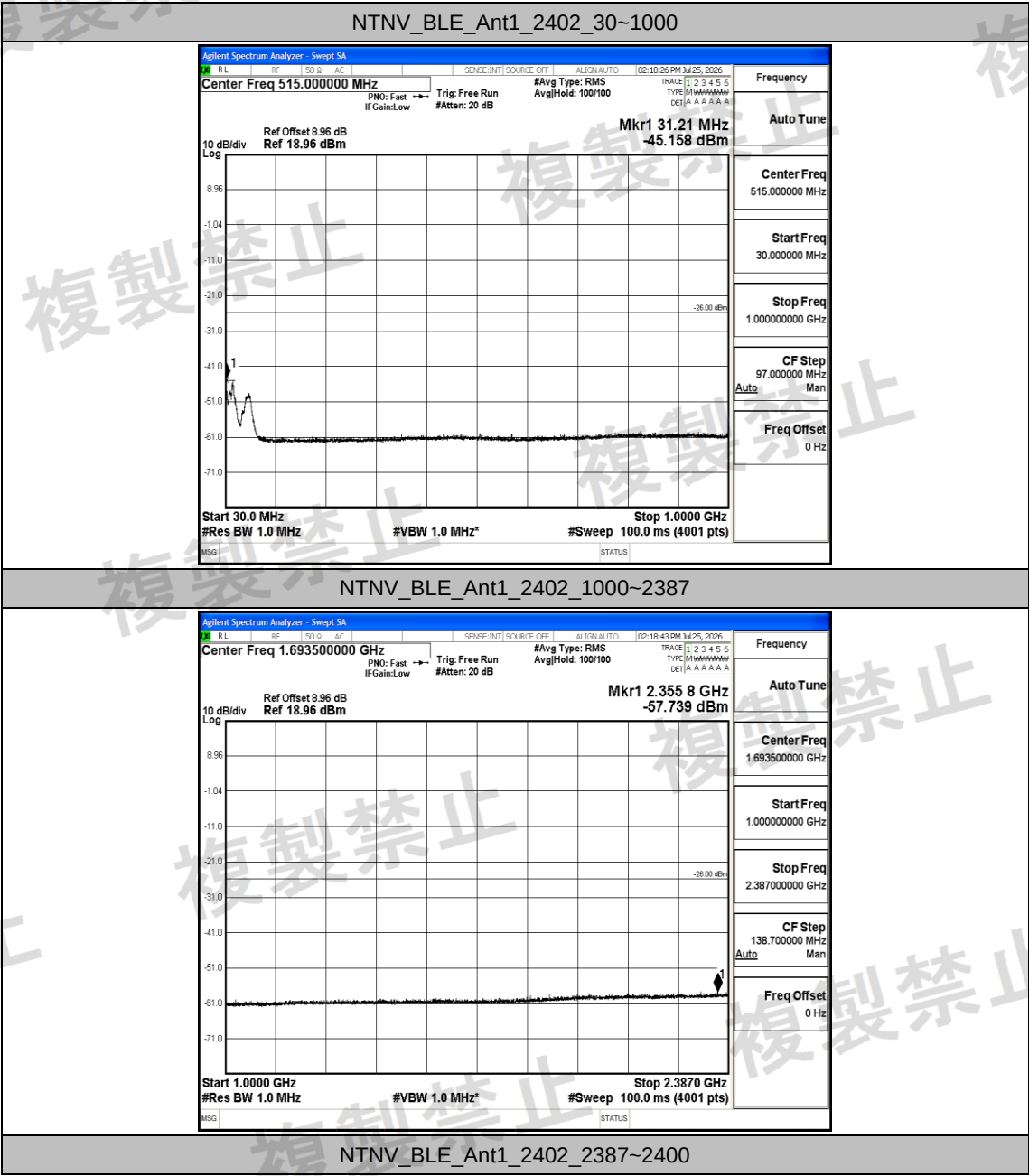
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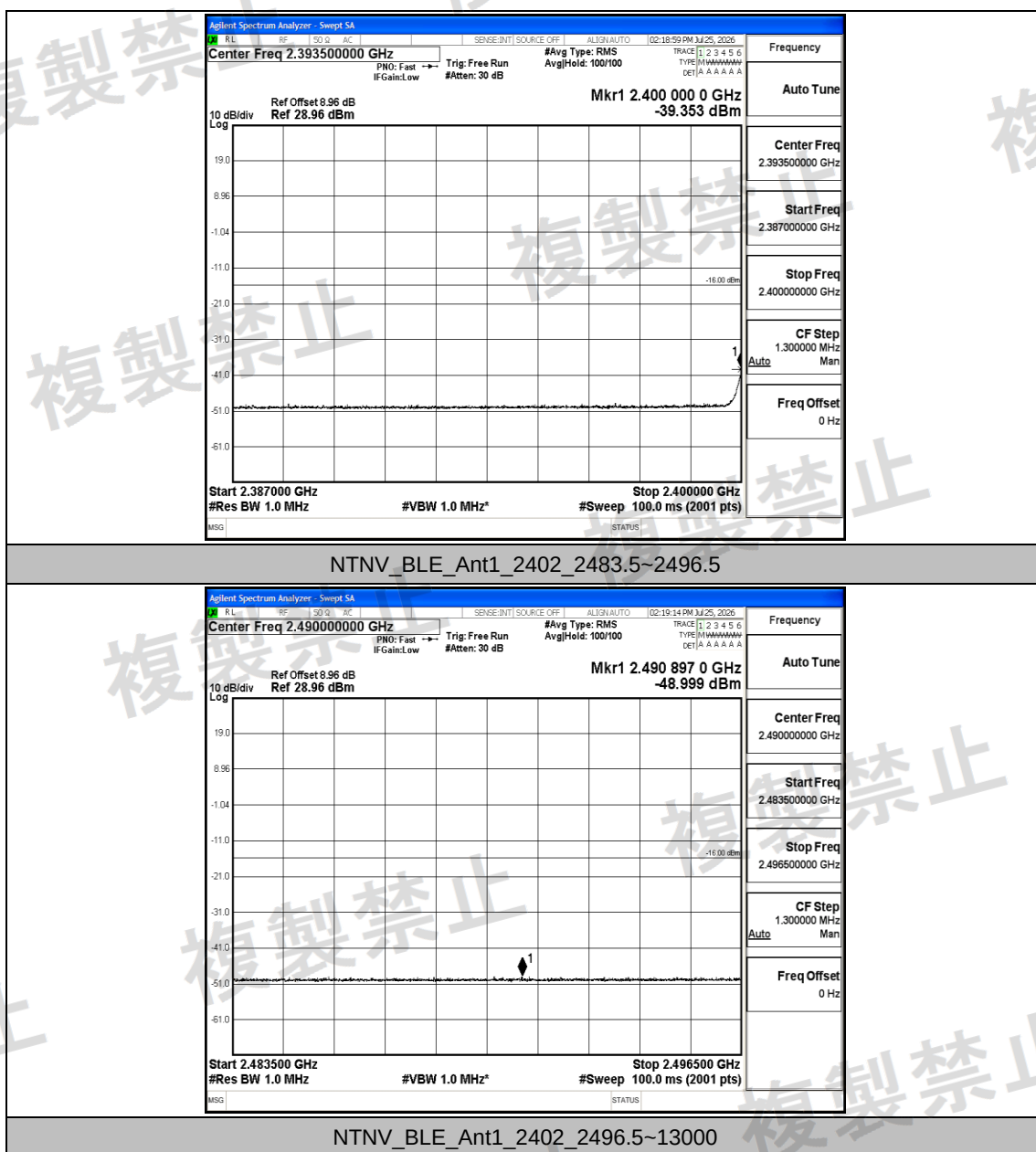
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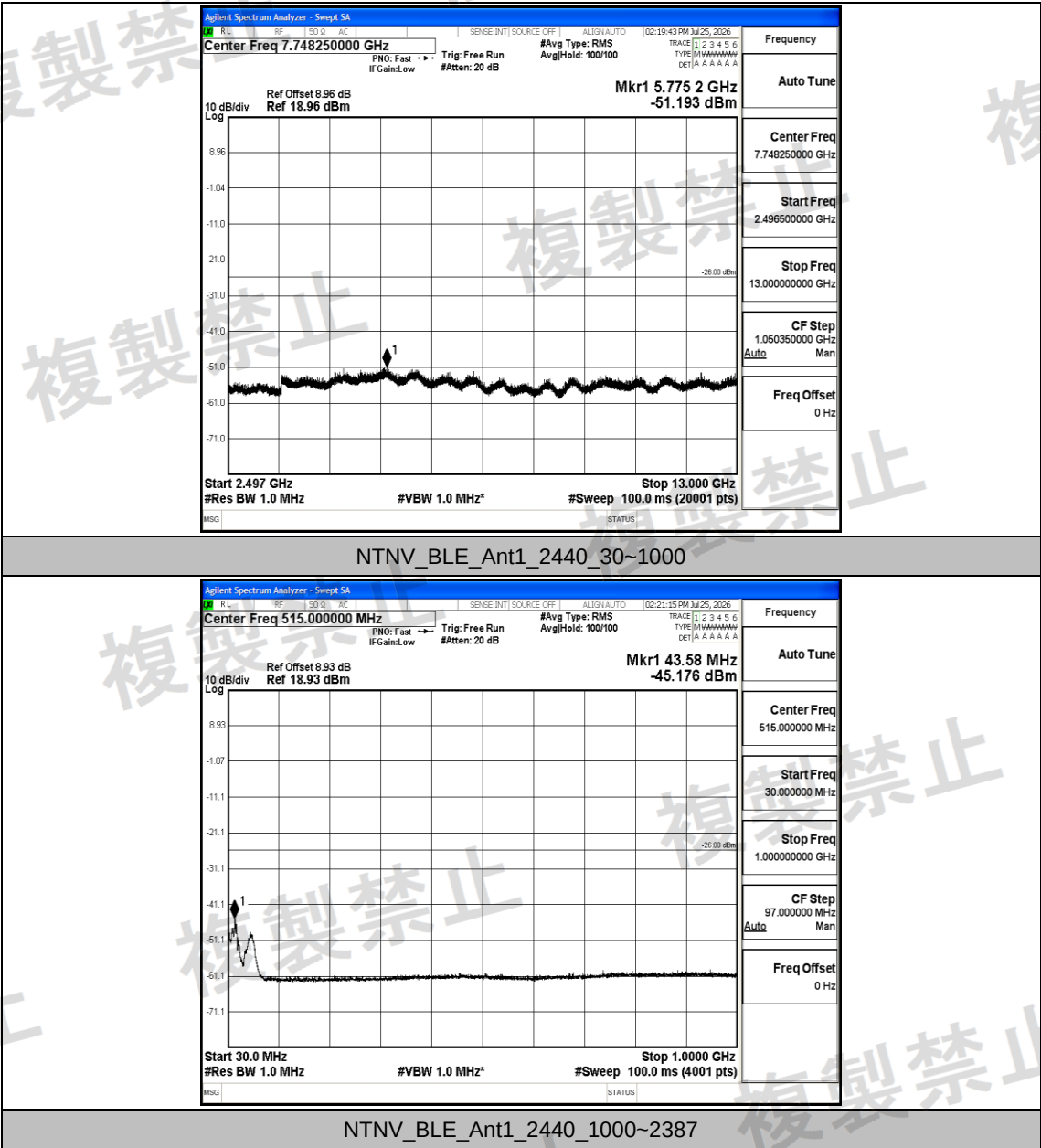
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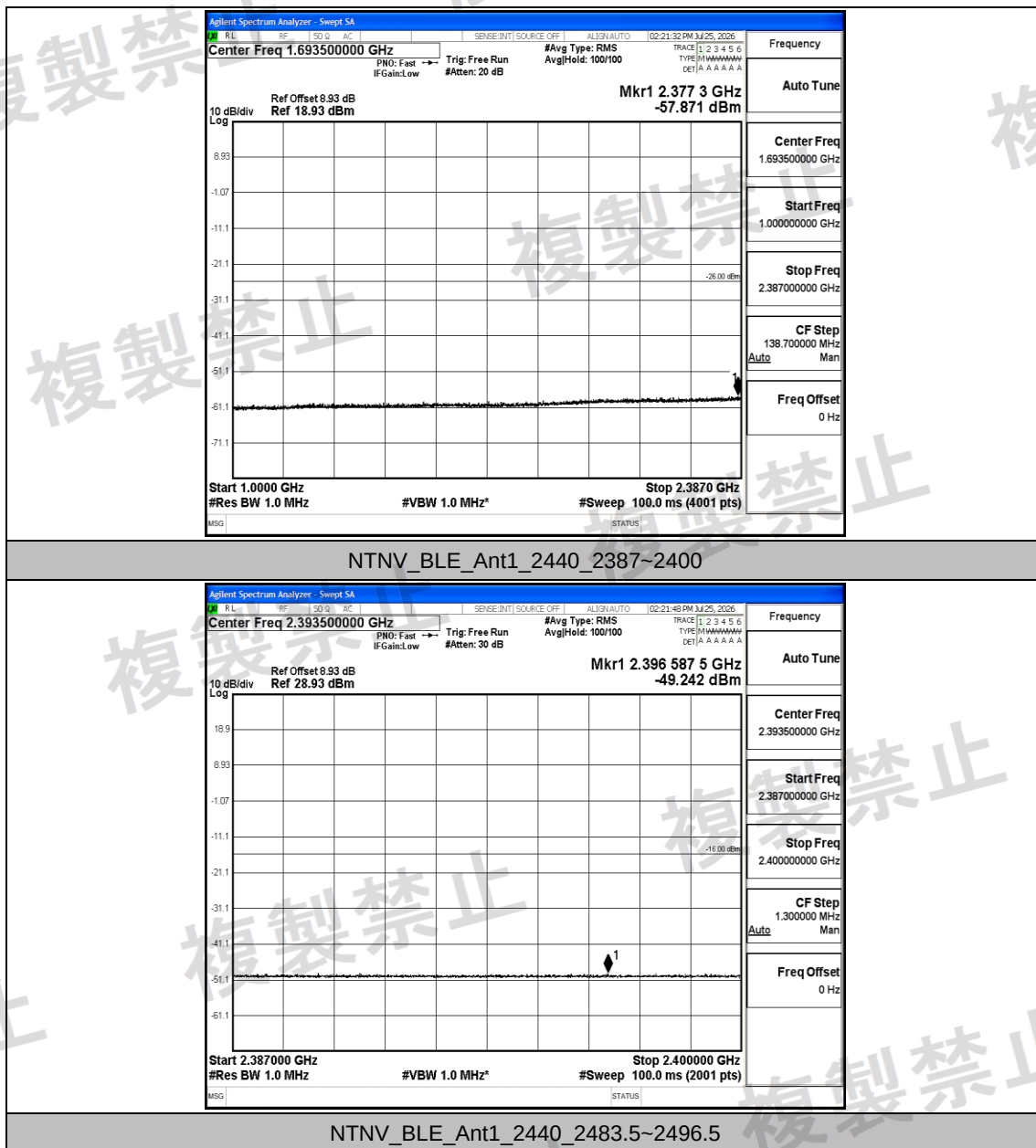
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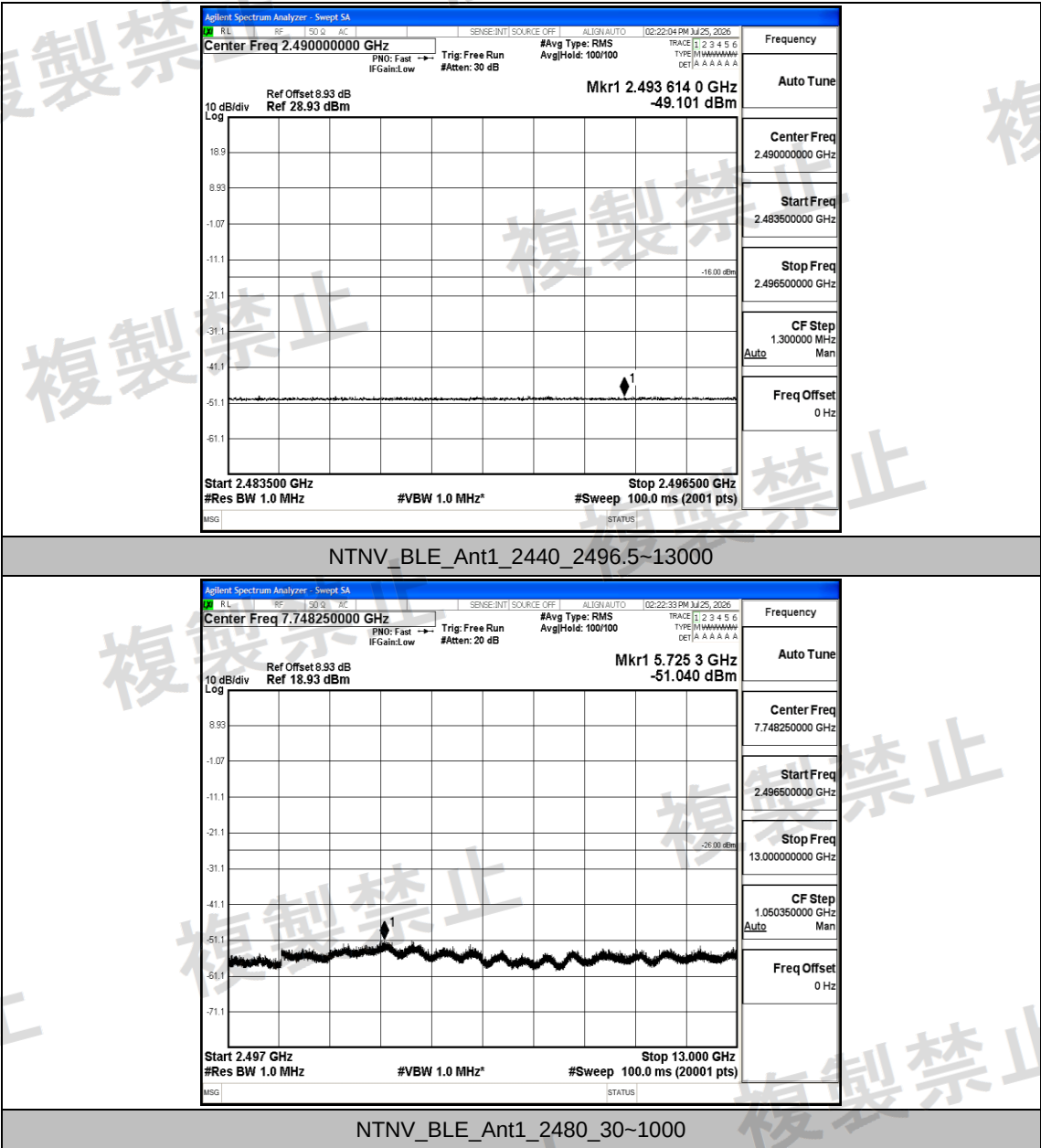
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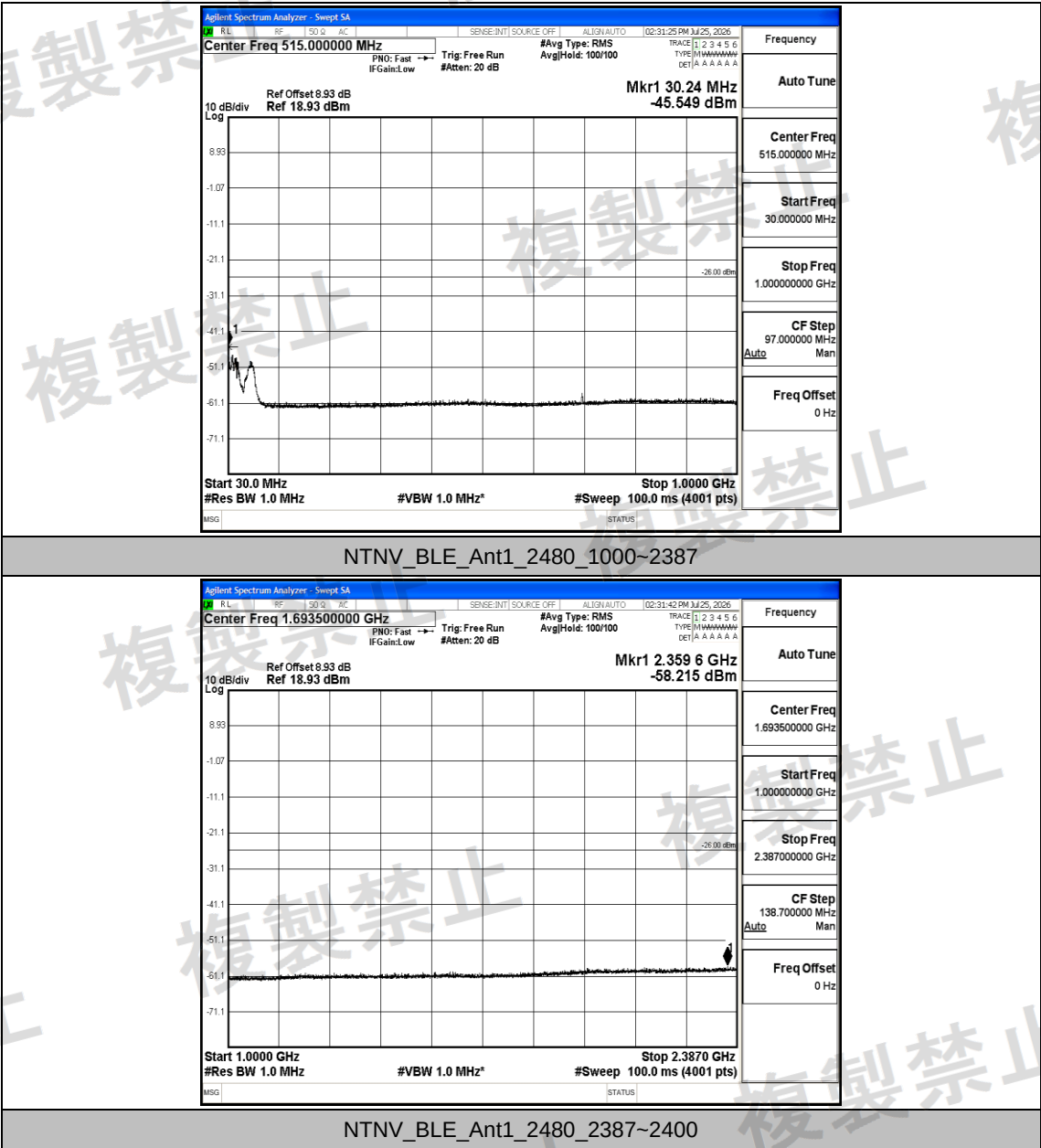


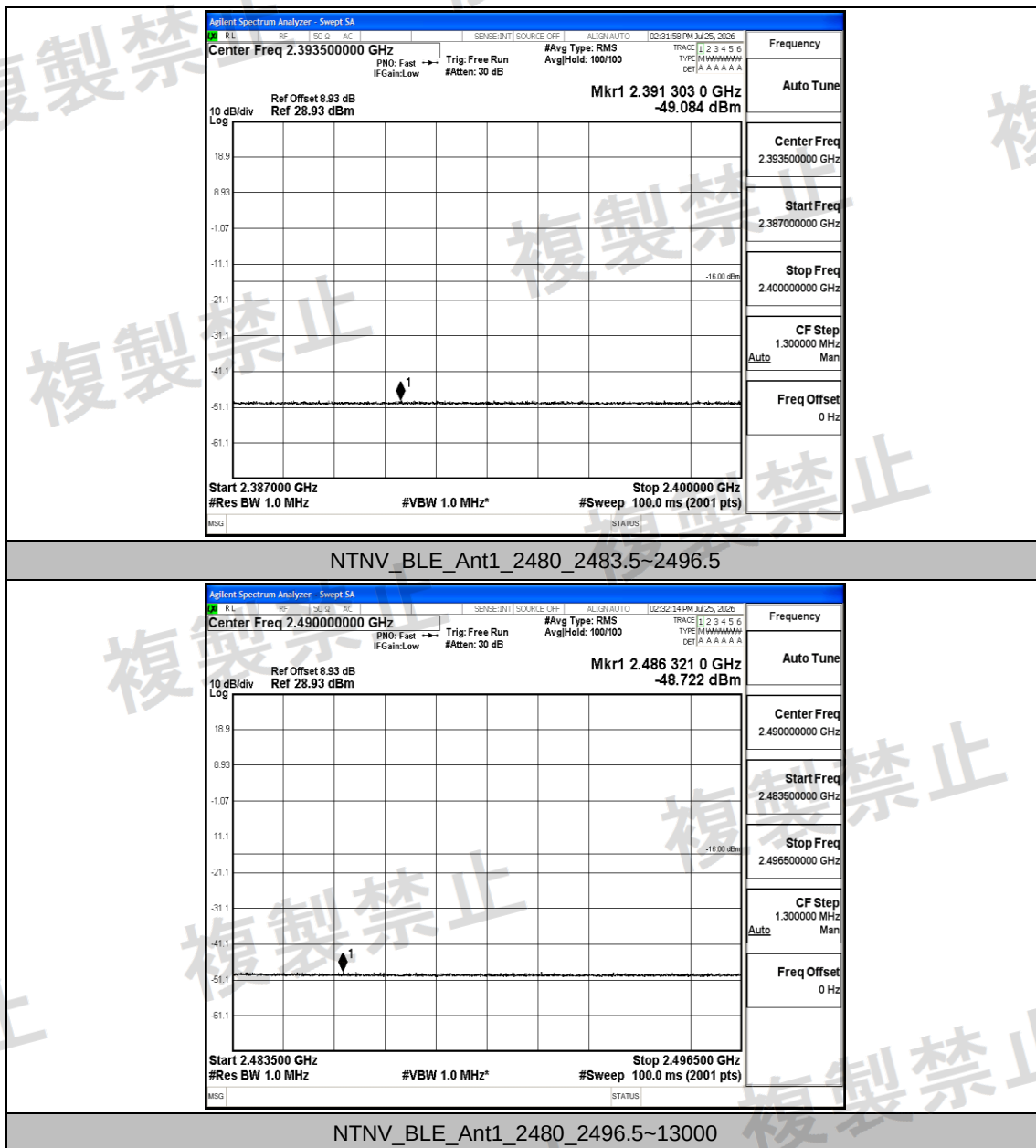


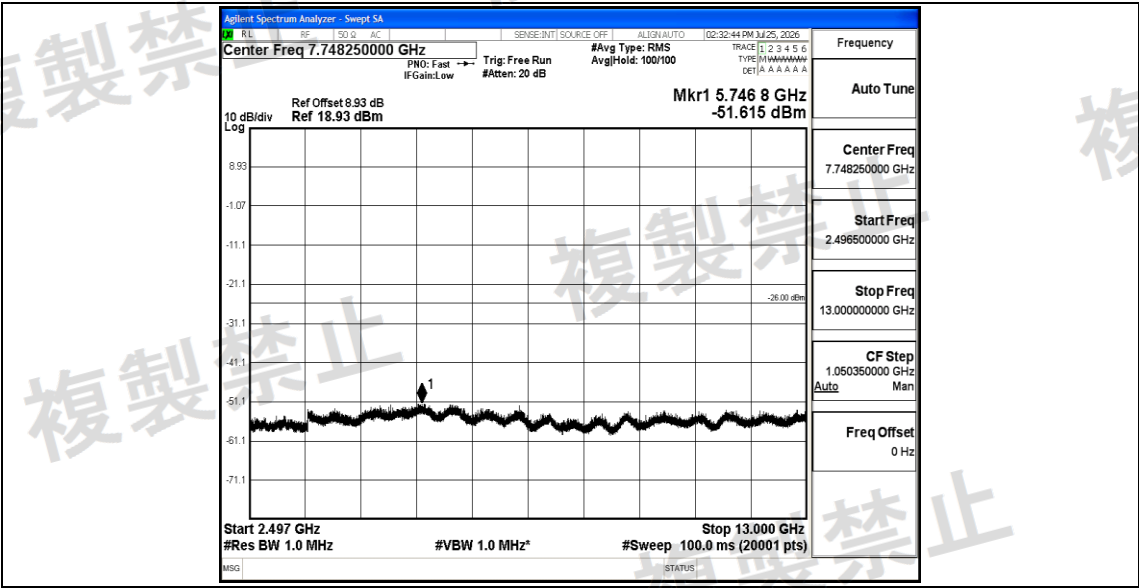












B.6 Spurious Emission of RX

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE	Ant1	2402	30~1000	-89.39	≤-54	0.00115	≤4	PASS
				1000~12500	-69.07	≤-47	0.12388	≤20	PASS
			2440	30~1000	-89.55	≤-54	0.00111	≤4	PASS
				1000~12500	-72.52	≤-47	0.05598	≤20	PASS
			2480	30~1000	-89.58	≤-54	0.00110	≤4	PASS
				1000~12500	-69.99	≤-47	0.10023	≤20	PASS

Test Graphs

