

Appendix A: Test Results of Sub-1GHz

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Appendix A.1: Test Results of Frequency Tolerance

Test Result

TestCondition	TestMode	Antenna	Frequency [MHz]	Result [ppm]	Limit [ppm]	Verdict
NTNV	Sub-1GHz	Ant1	920.6	17.15620	±20	PASS
NTNV	Sub-1GHz	Ant1	922	14.40347	±20	PASS
NTNV	Sub-1GHz	Ant1	923.4	14.36647	±20	PASS

Appendix A.2: Test Results of Occupied Channel Bandwidth (99%)

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	Sub-1GHz	Ant1	920.6	0.073	≤0.2	PASS
NTNV	Sub-1GHz	Ant1	922	0.067	≤0.2	PASS
NTNV	Sub-1GHz	Ant1	923.4	0.070	≤0.2	PASS

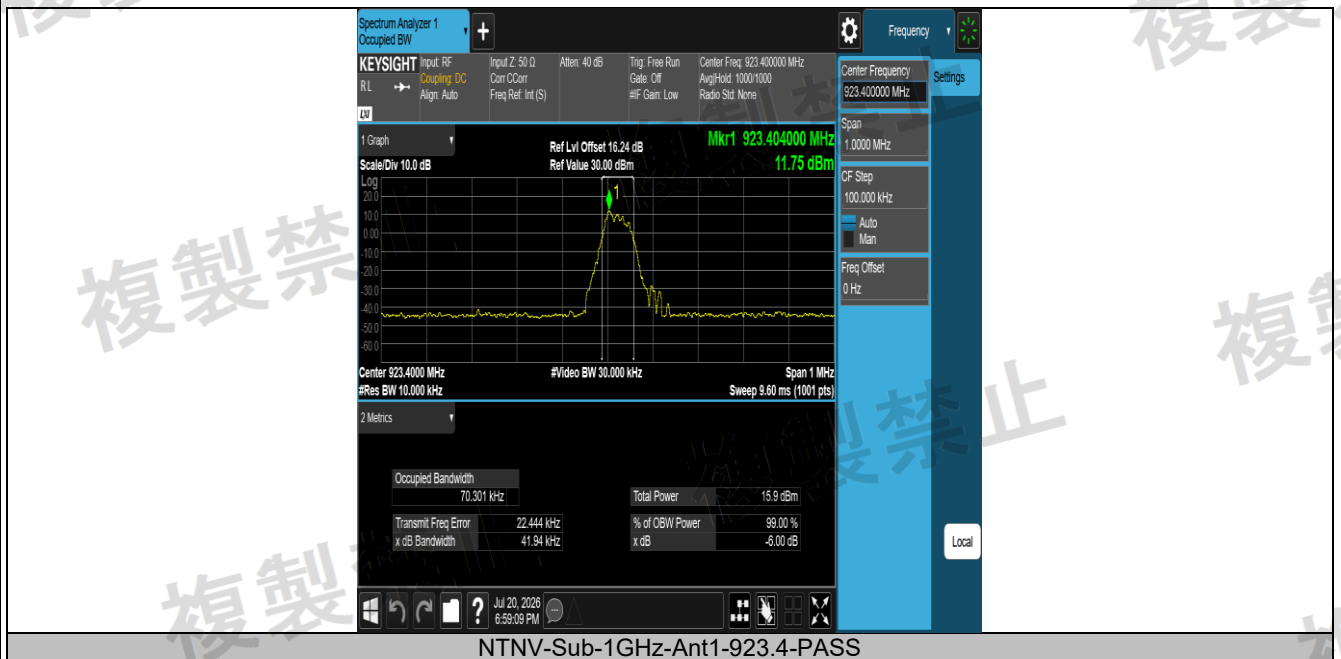
Test Graphs



NTNV-Sub-1GHz-Ant1-920.6-PASS



NTNV-Sub-1GHz-Ant1-922-PASS



Appendix A.3: Test Results of Adjacent Channel Power*Test Result*

TestCondition	TestMode	Antenna	Frequency [MHz]	Offset [MHz]	Result [dBc]	Limit [dBc]	Verdict
NTNV	Sub-1GHz	Ant1	920.6	-1	-45.24	≤-25	PASS
NTNV	Sub-1GHz	Ant1	920.6	+1	-38.63	≤-25	PASS
NTNV	Sub-1GHz	Ant1	920.6	-2	-49.89	≤-40	PASS
NTNV	Sub-1GHz	Ant1	920.6	+2	-49.88	≤-40	PASS
NTNV	Sub-1GHz	Ant1	922	-1	-45.17	≤-25	PASS
NTNV	Sub-1GHz	Ant1	922	+1	-38.62	≤-25	PASS
NTNV	Sub-1GHz	Ant1	922	-2	-49.84	≤-40	PASS
NTNV	Sub-1GHz	Ant1	922	+2	-49.96	≤-40	PASS
NTNV	Sub-1GHz	Ant1	923.4	-1	-39.95	≤-25	PASS
NTNV	Sub-1GHz	Ant1	923.4	+1	-38.13	≤-25	PASS
NTNV	Sub-1GHz	Ant1	923.4	-2	-40.39	≤-40	PASS
NTNV	Sub-1GHz	Ant1	923.4	+2	-40.41	≤-40	PASS

Test Graphs



NTNV-Sub-1GHz-Ant1-920.6-PASS



NTNV-Sub-1GHz-Ant1-922-PASS



Appendix A.4: Test Results of Antenna Power

Test Result

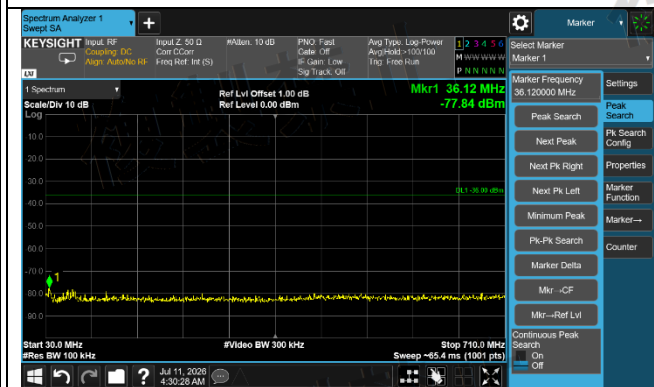
Condition	Frequency (MHz)	Measured Power (dBm)	Antenna Power (mW)	Rated Power (mW)	Power Limit (mW)	Power Tolerance (%)	Tolerance Limit (%)	Result
NVNT	920.6	10.04	10.093	20.00	20.00	-49.54	+20	Pass
NVNT	922	10.11	10.257	20.00	20.00	-48.72	+20	Pass
NVNT	923.4	10.08	10.186	20.00	20.00	-49.07	+20	Pass

Antenna Gain: 3.0dBi, maximum EIRP is 13.11dBm, less than 16dBm

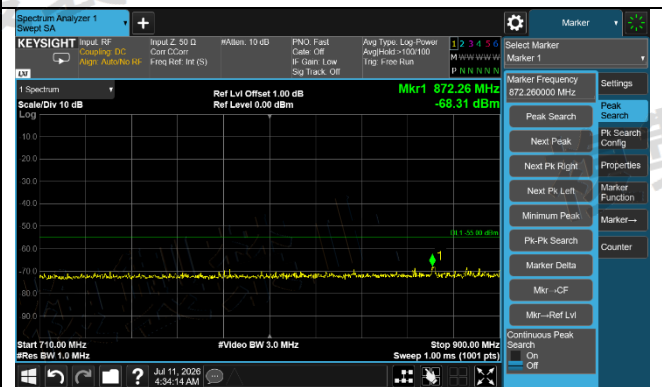
Appendix A.5: Test Results of Spurious Emissions for Transmitter

Test Result, 920.6MHz

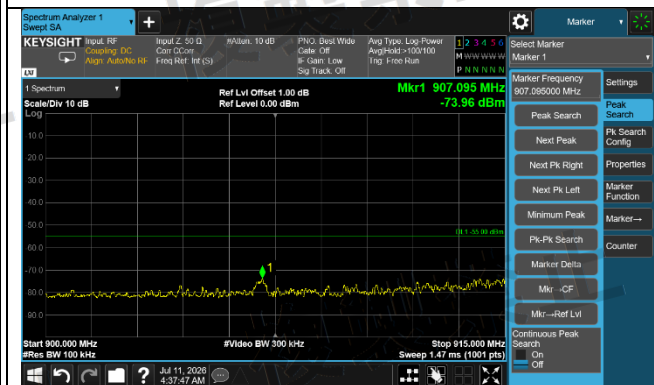
30MHz -710MHz: -36dBm/100kHz:



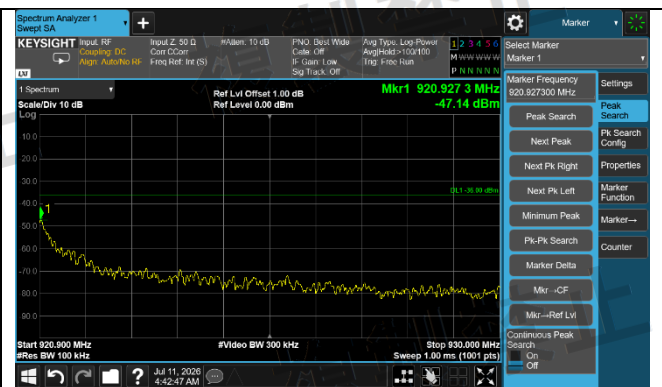
710MHz~900MHz: -55dBm/1MHz:

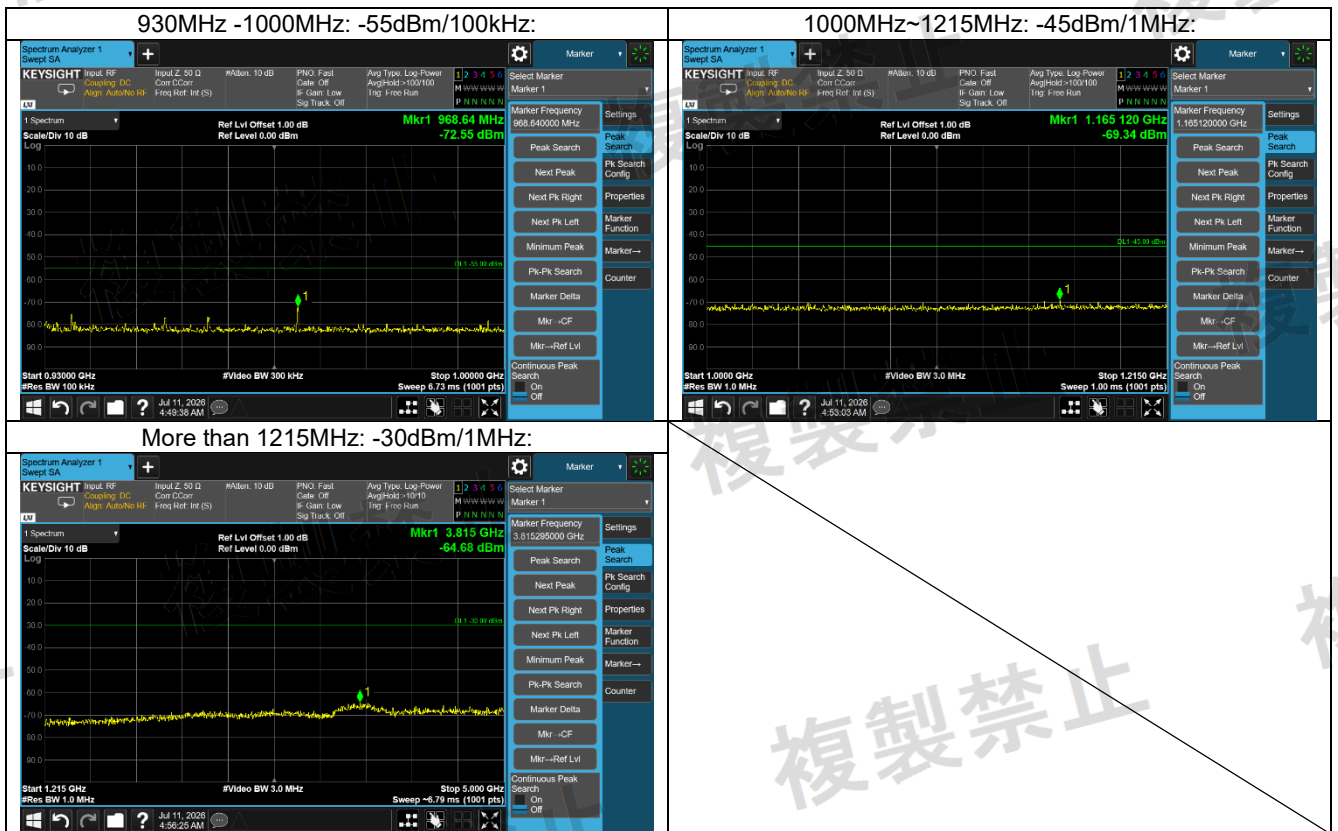


900MHz -915MHz: -55dBm/100kHz:

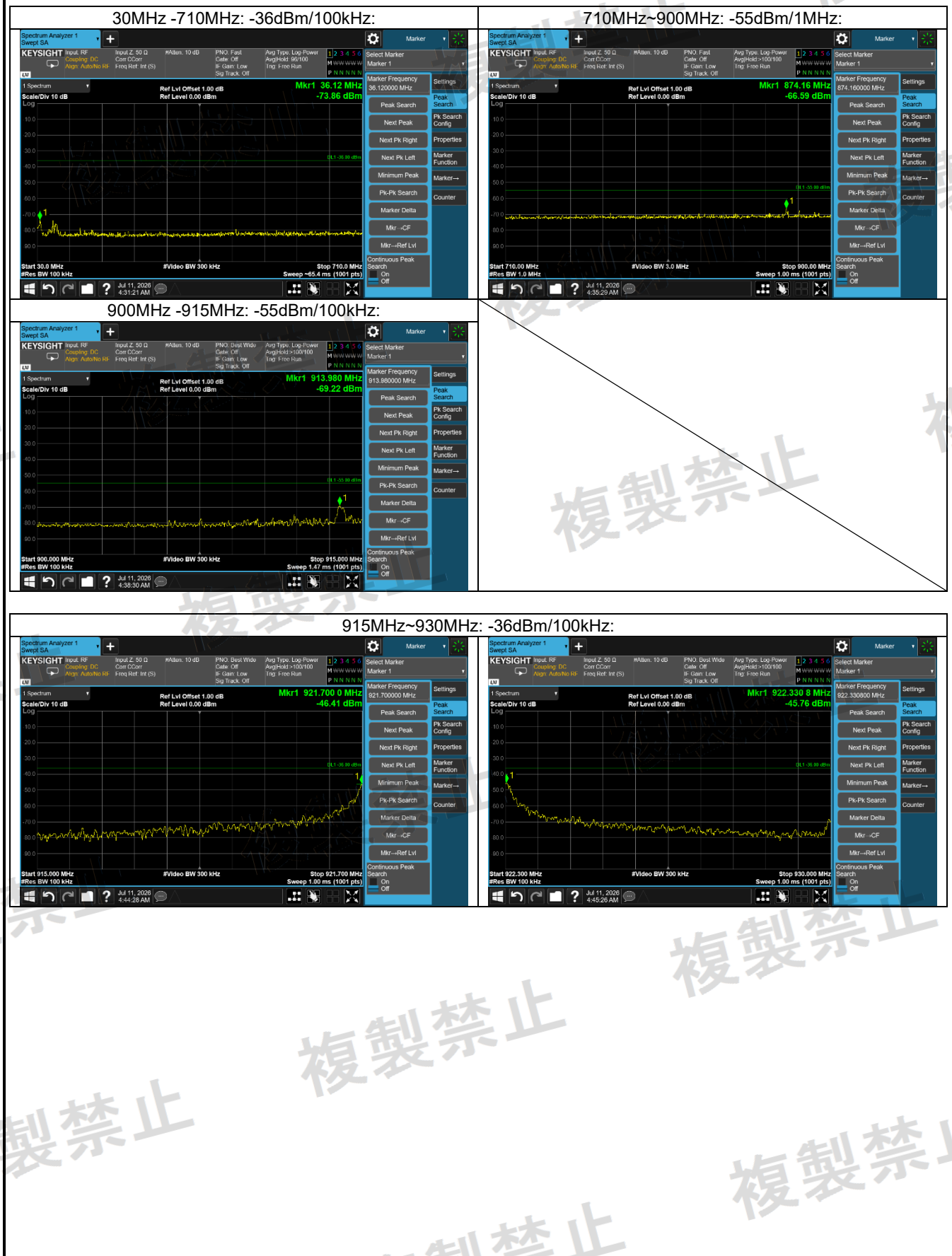


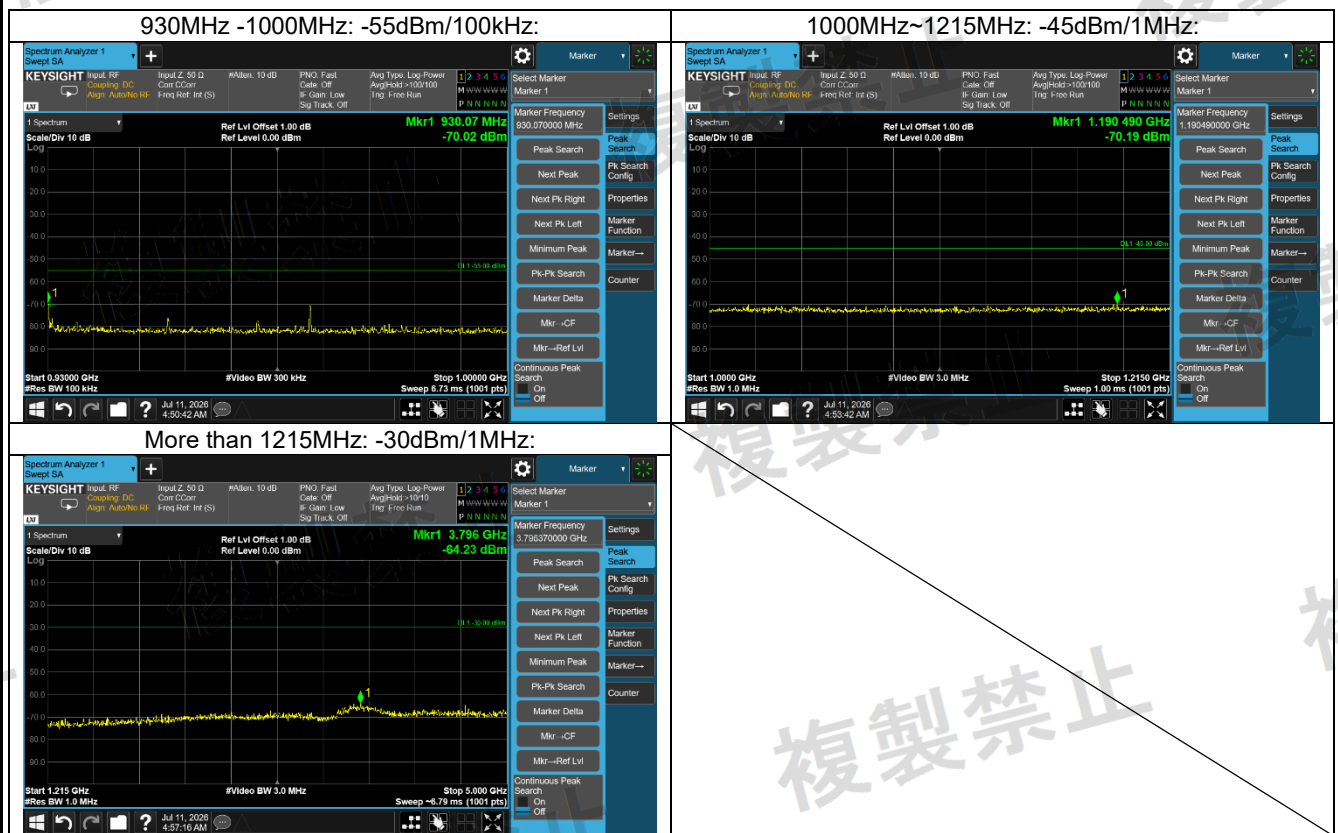
915MHz~930MHz: -36dBm/100kHz:



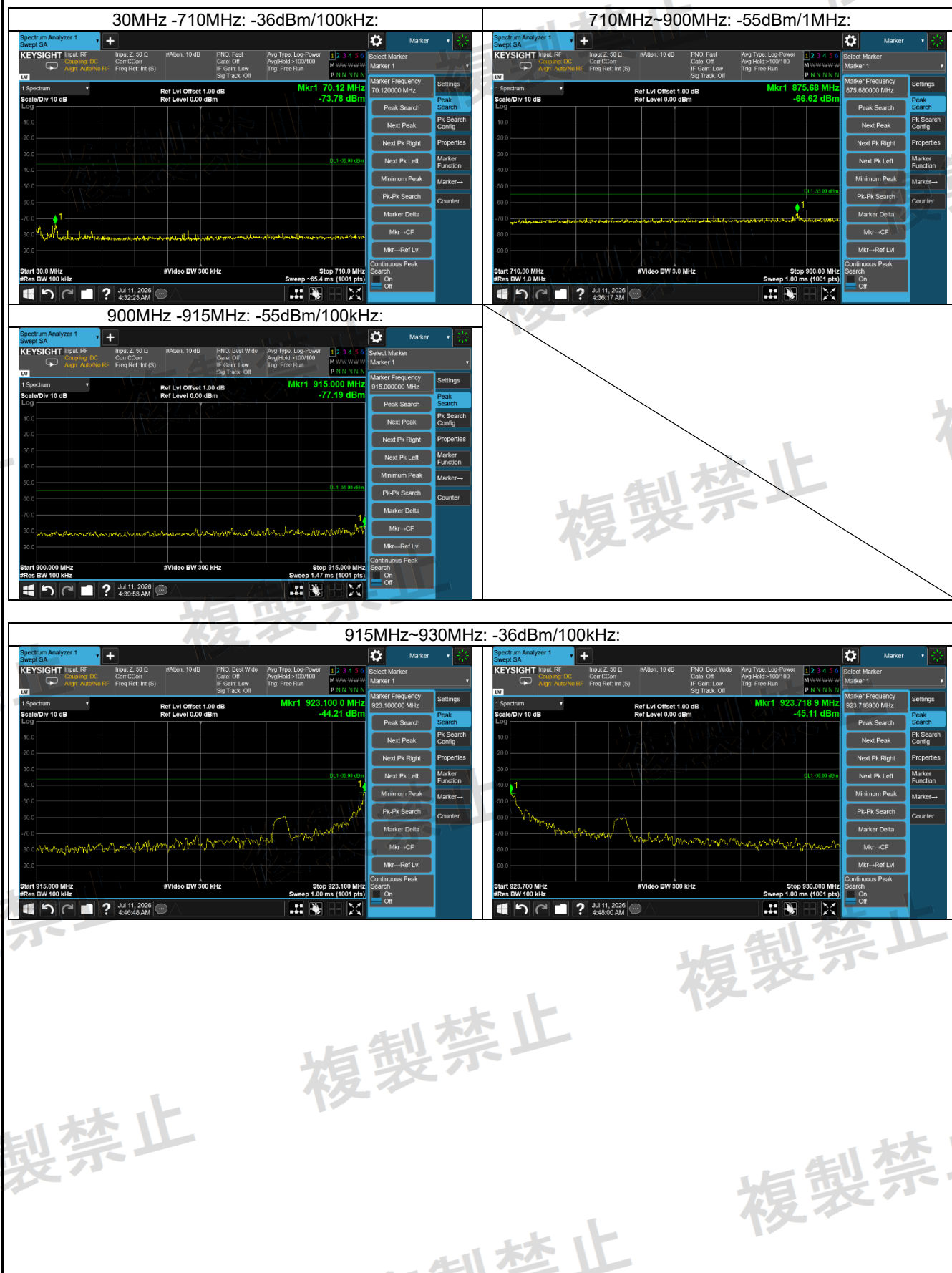


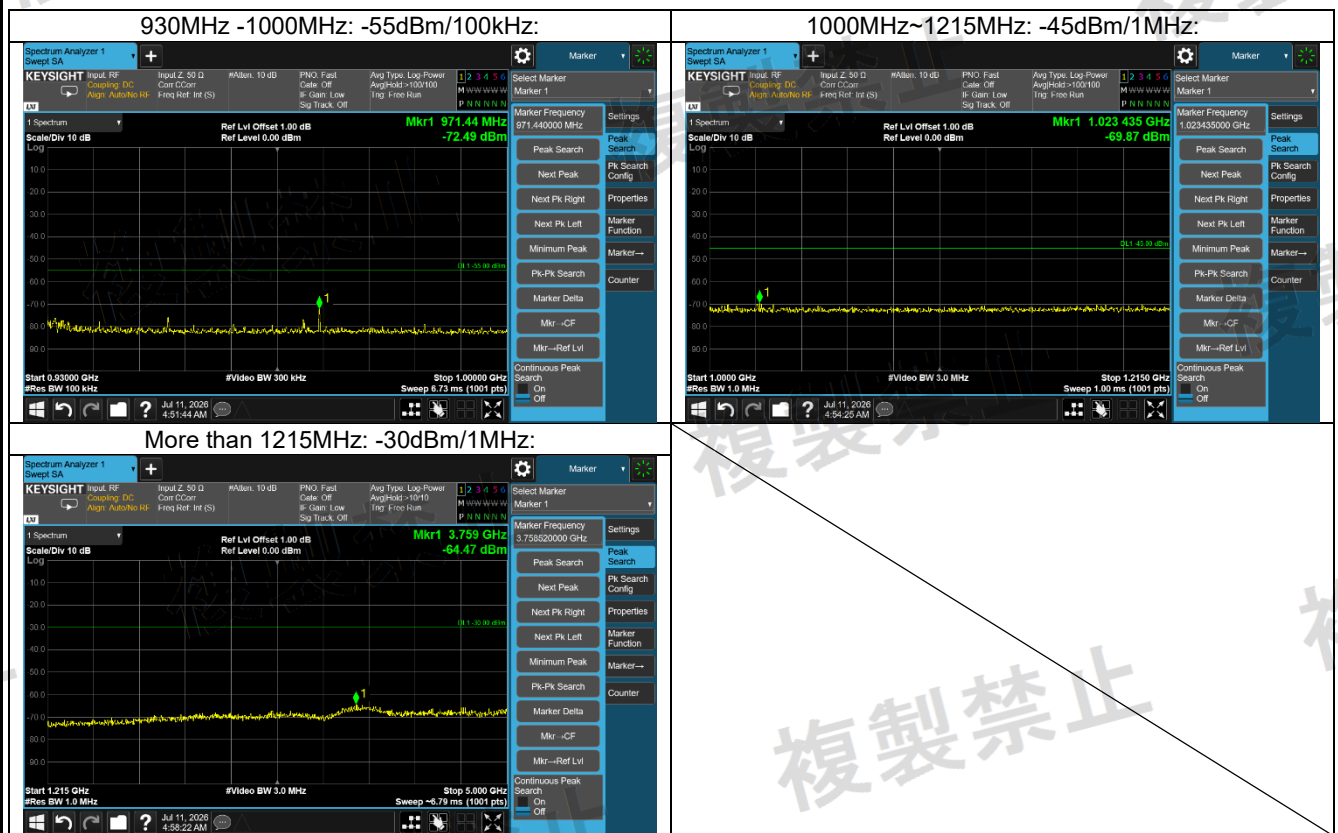
Test Result, 922MHz





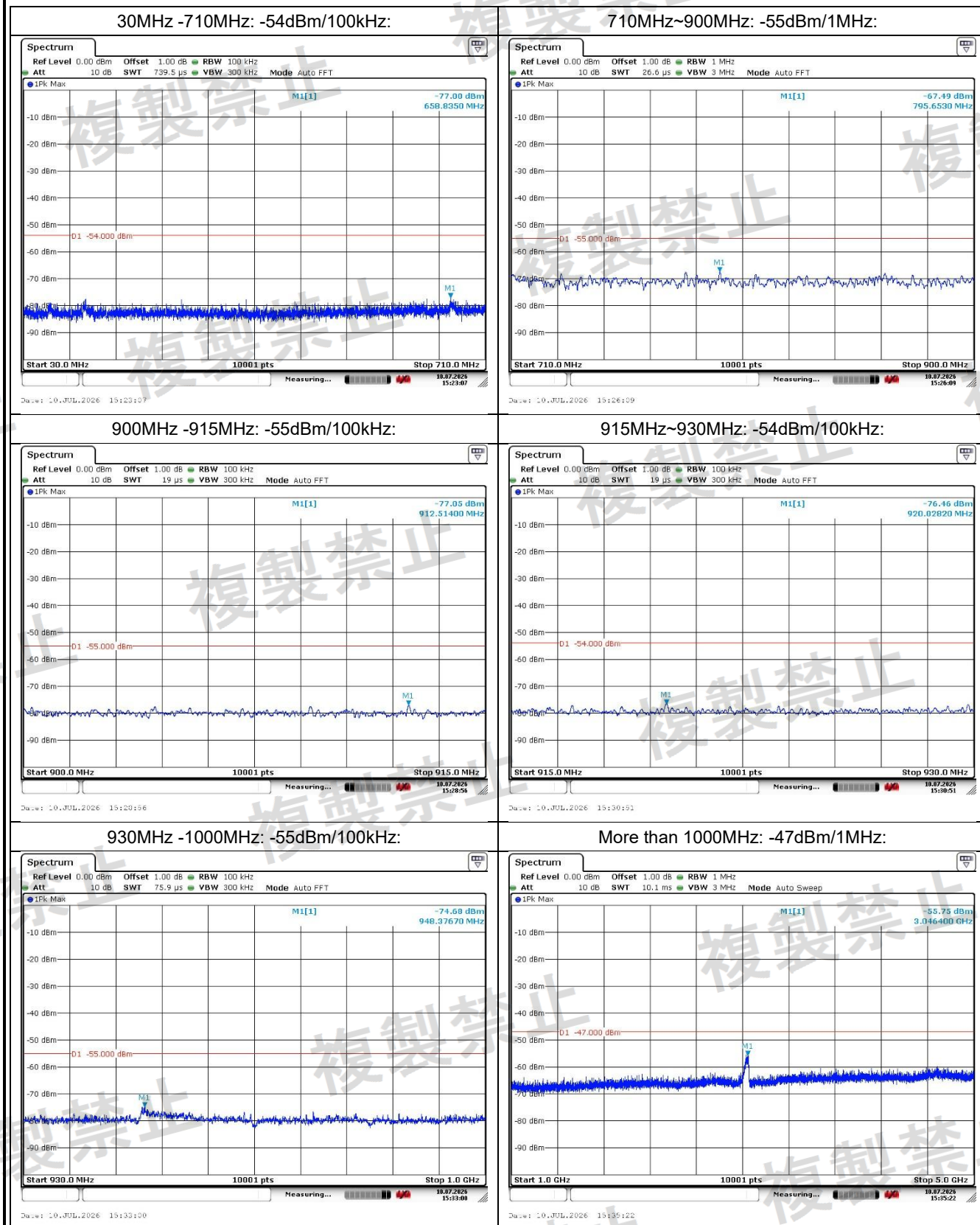
Test Result, 923.4MHz





Appendix A.6: Test Results of Secondary Radiated Emission Strength

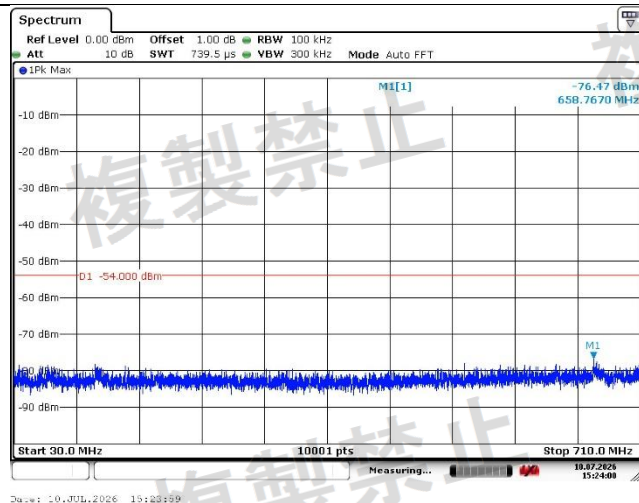
Test Result, 920.6MHz



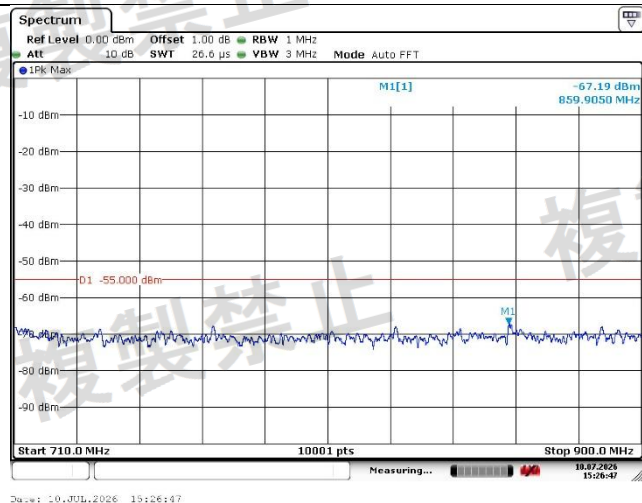
Prüfbericht - Produkte
Test Report - Products

Test Result, 922MHz

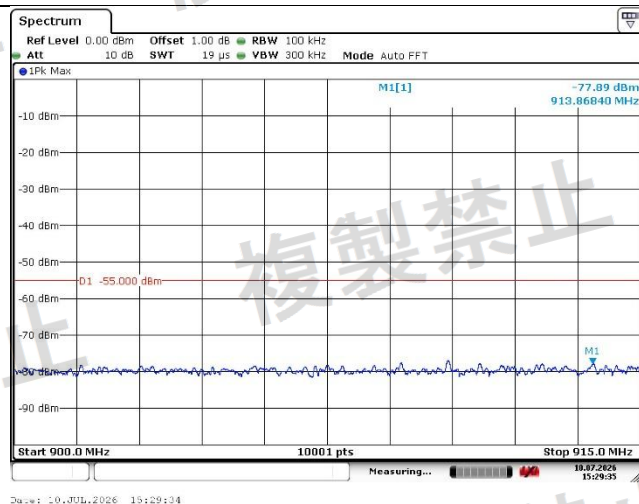
30MHz -710MHz: -54dBm/100kHz:



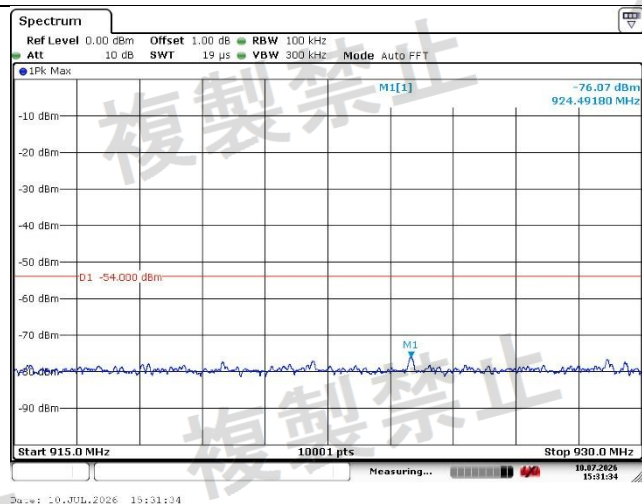
710MHz~900MHz: -55dBm/1MHz:



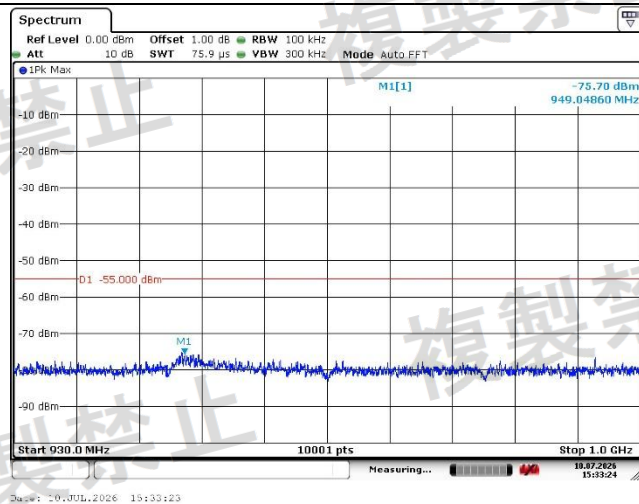
900MHz -915MHz: -55dBm/100kHz:



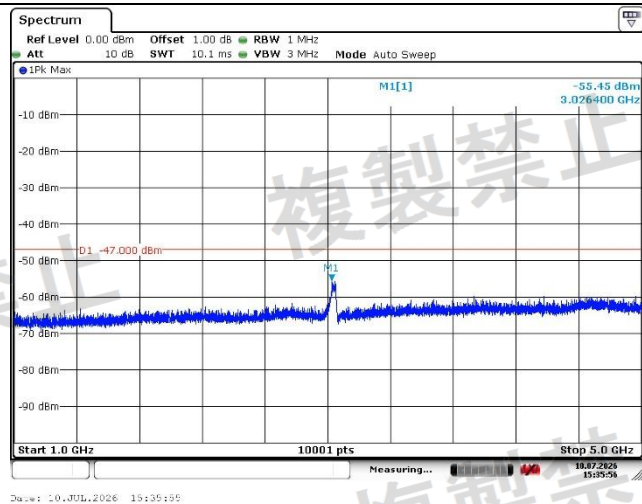
915MHz~930MHz: -54dBm/100kHz:



930MHz -1000MHz: -55dBm/100kHz:

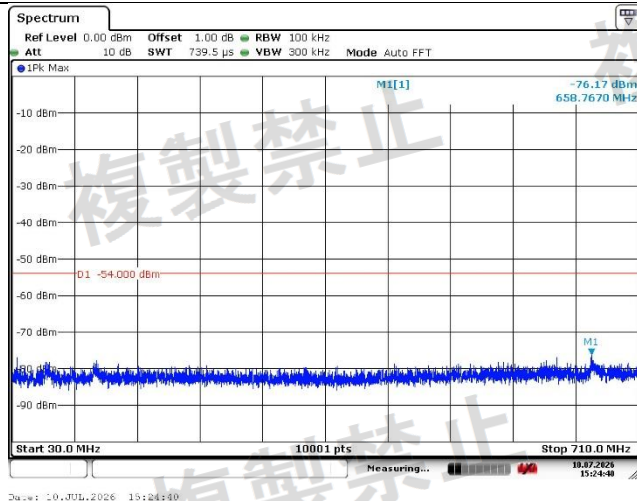


More than 1000MHz: -47dBm/1MHz:

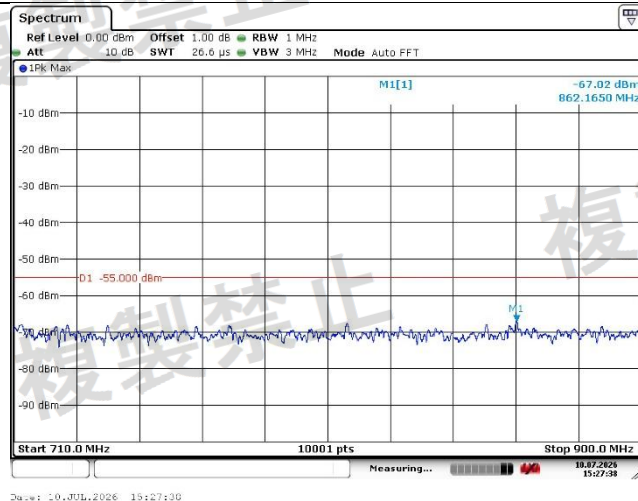


Test Result, 923.4MHz

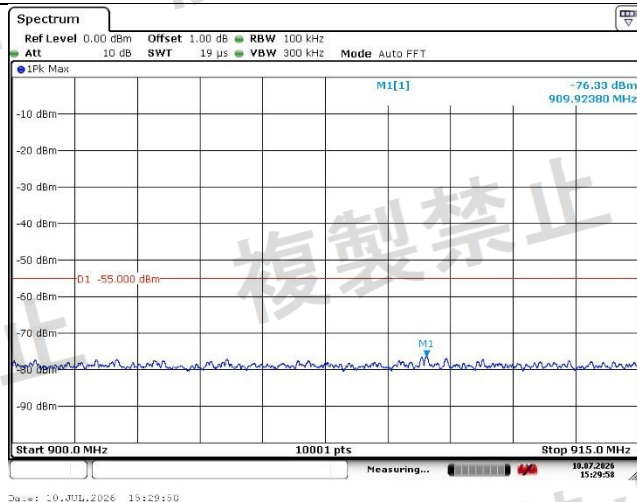
30MHz -710MHz: -54dBm/100kHz:



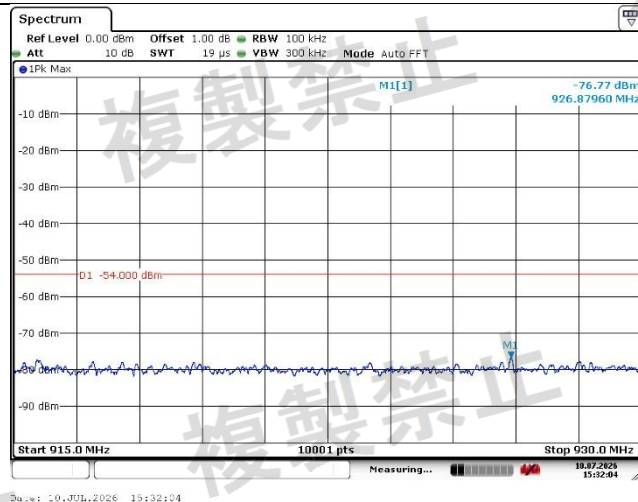
710MHz~900MHz: -55dBm/1MHz:



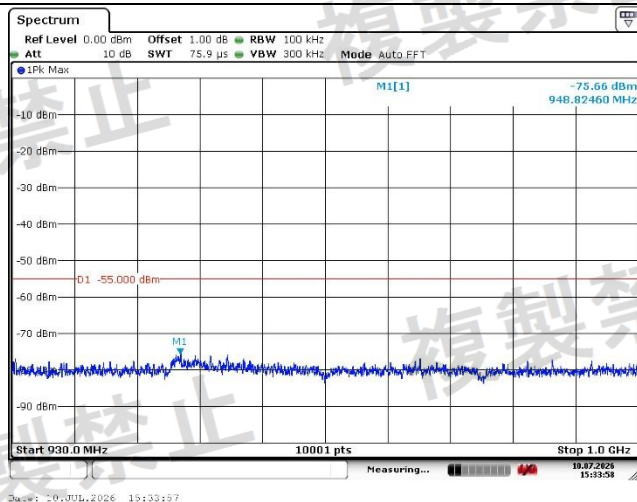
900MHz -915MHz: -55dBm/100kHz:



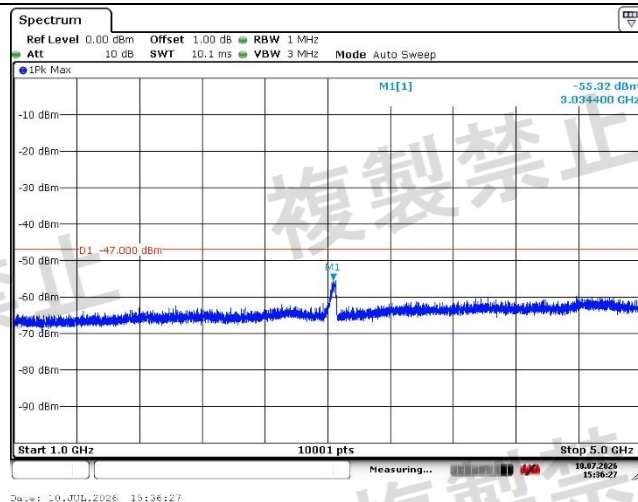
915MHz~930MHz: -54dBm/100kHz:



930MHz -1000MHz: -55dBm/100kHz:



More than 1000MHz: -47dBm/1MHz:



Appendix A.7: Transmission Time Restriction, Carrier Sensing Function

Test Result

Frequency Range	Frequency (MHz)	Total Transmission Time	Transmission Time Restriction	Result
920.5 ~ 923.5MHz (Low Duty Cycle)	922	Less than 36s/hour	Transmission ON: within 4 sec.	Pass
			Transmission OFF: over 0.050 sec.	Pass

Note: Carrier Sensing Function is not required for this band

Appendix A.8: Test Results of Interference Prevention Function

Test Result

Temperature:	24.8°C	Humidity:	55%RH
Test result:	Pass		