

13.4. Test Result

Test environment:

Temperature:	23.1~27.5 °C
Relative Humidity:	46~51 %
ATM Pressure:	100.2~101.5 kPa
Test Date (yy-mm-dd):	2026-04-20~2026-05-18
Test Voltage:	DC 5V
Test Engineer:	Stone Zhang

Test Data:

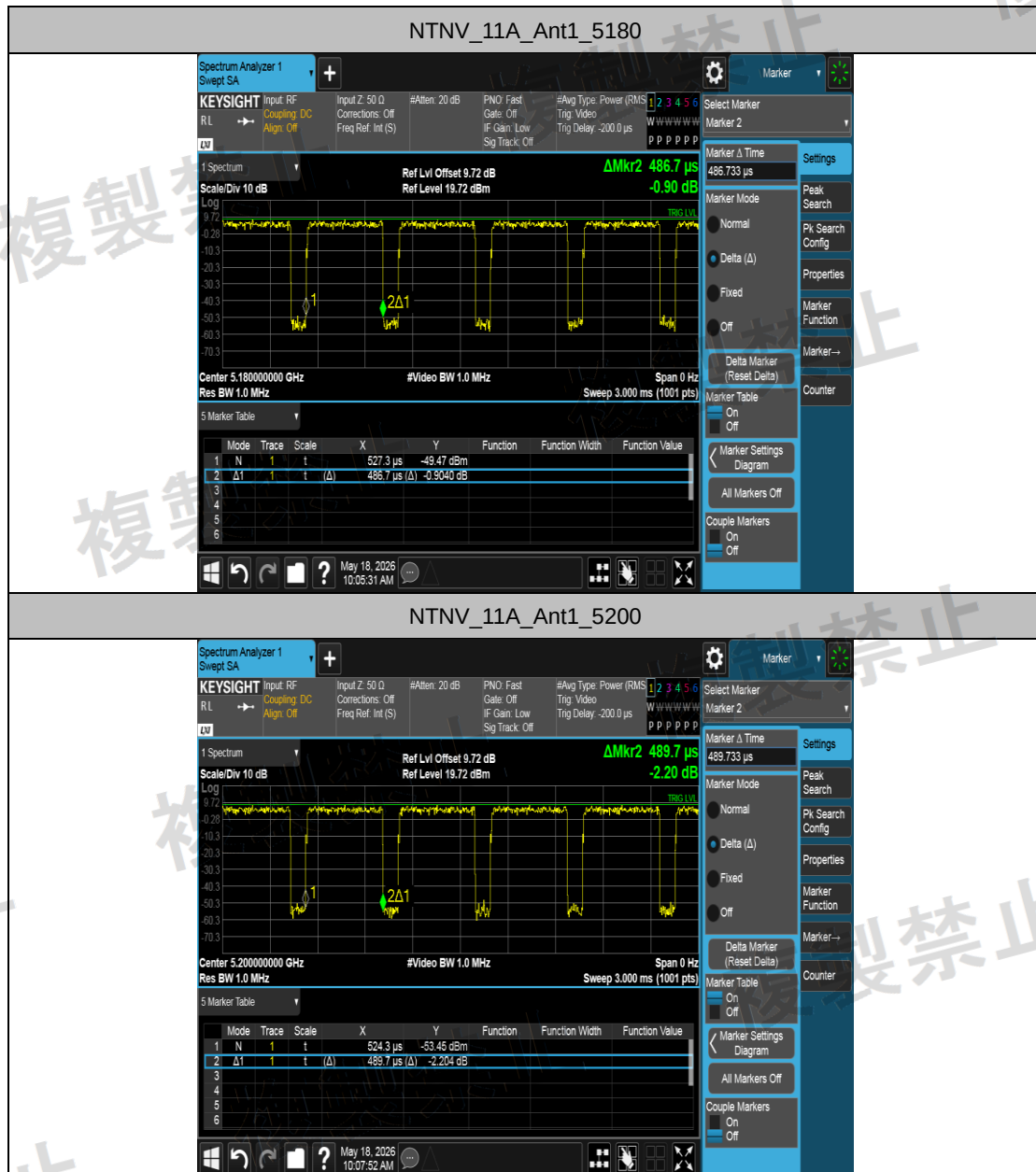
Test Condition	Test Mode	Antenna	Frequency (MHz)	Result [ms]	Limit [ms]	Verdict
NTNV	11A	Ant1	5180	0.487	≤8	PASS
			5200	0.490	≤8	PASS
			5240	0.490	≤8	PASS
			5260	0.490	≤8	PASS
			5280	0.486	≤8	PASS
			5320	0.486	≤8	PASS
			5500	0.486	≤8	PASS
			5600	0.486	≤8	PASS
			5720	0.486	≤8	PASS
	11N20SISO	Ant1	5180	1.321	≤8	PASS
			5200	1.321	≤8	PASS
			5240	1.320	≤8	PASS
			5260	1.320	≤8	PASS
			5280	1.320	≤8	PASS
			5320	1.320	≤8	PASS
			5500	1.320	≤8	PASS
			5600	1.320	≤8	PASS
			5720	1.320	≤8	PASS
	11N40SISO	Ant1	5190	0.661	≤8	PASS
			5230	0.660	≤8	PASS
			5270	0.660	≤8	PASS
			5310	0.665	≤8	PASS
			5510	0.660	≤8	PASS
			5590	0.660	≤8	PASS



			5710	0.660	≤8	PASS
	11AC20SISO	Ant1	5180	1.331	≤8	PASS
			5200	1.335	≤8	PASS
			5240	1.320	≤8	PASS
			5260	1.330	≤8	PASS
			5280	1.330	≤8	PASS
			5320	1.330	≤8	PASS
			5500	1.330	≤8	PASS
			5600	1.330	≤8	PASS
			5720	1.330	≤8	PASS
	11AC40SISO	Ant1	5190	0.681	≤8	PASS
			5230	0.660	≤8	PASS
			5270	0.660	≤8	PASS
			5310	0.670	≤8	PASS
			5510	0.660	≤8	PASS
			5590	0.670	≤8	PASS
			5710	0.660	≤8	PASS
	11AC80SISO	Ant1	5210	0.331	≤8	PASS
			5290	0.340	≤8	PASS
			5530	0.340	≤8	PASS
			5610	0.340	≤8	PASS
			5690	0.340	≤8	PASS



Test Plots:









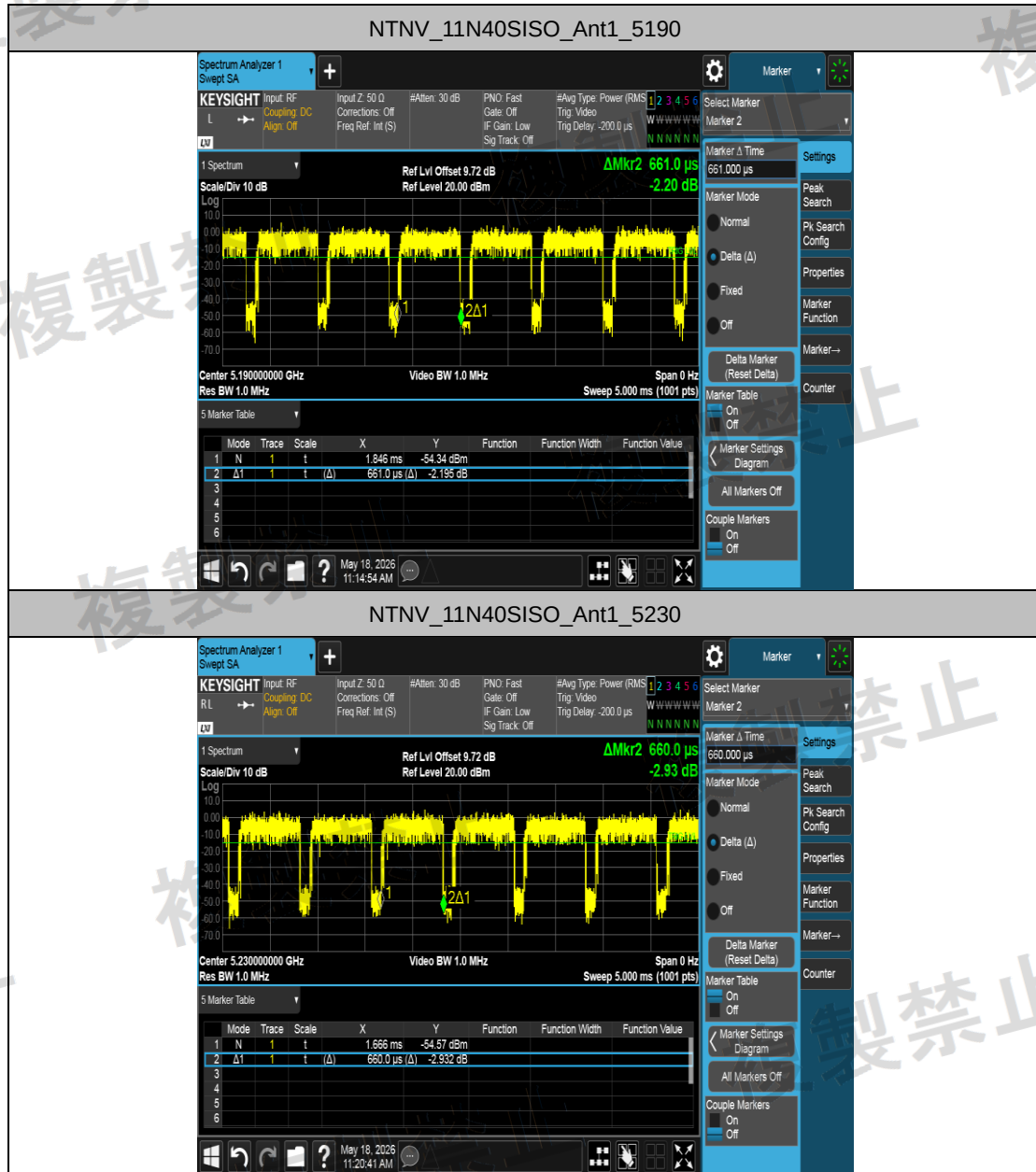




































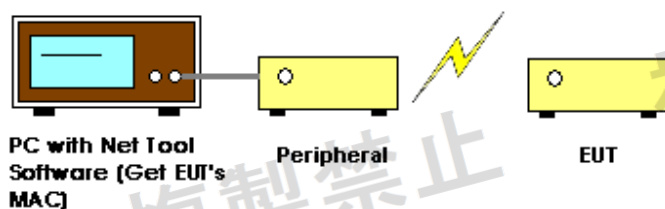


14. Radio Interference Prevention Capability Measurement

14.1. Limit

Item	Limits
Identification code	≥48 bits

14.2. Test Setup



14.3. Test Procedure

In the case that the EUT has the function of automatically transmitting the identification code: Transmit the predetermined identification codes form EUT. Check the transmitted identification codes with the demodulator.

In the case of receiving the identification code: Transmit the predetermined identification codes form the counterpart. Check if communication is normal. Transmit the signals other than predetermined ID codes form the counterpart. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

14.4. Test Result

Test environment:

Temperature:	23.1~27.5 °C
Relative Humidity:	46~51 %
ATM Pressure:	100.2~101.5 kPa
Test Date (yy-mm-dd):	2026-04-20~2026-05-18
Test Voltage:	DC 5V
Test Engineer:	Stone Zhang

Test Mode	EUT normal working
Test Result	Good (identification code: 9C:B8:B4:71:00:38)

15. Carrier Sense Capability

15.1. Limit

Item	Limits
Carrier Sense Capability	Good – EUT stop RF transmission signal after carrier inject to EUT. (On $22.79 + Gr - 20 \cdot \log(f)$ [dBm] (Gr: dBi; f: MHz) or 100mV/m)

15.2. Test Setup



15.3. Test Procedure

1. EUT have transmitted the maximum modulation signal and fixed channelize.
2. Setting of SA is following as: RBW:1MHz / VBW:1MHz / SPAN: 0MHz / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak.

15.4. Test Result

Test environment:

Temperature:	23.1~27.5 °C
Relative Humidity:	46~51 %
ATM Pressure:	100.2~101.5 kPa
Test Date (yy-mm-dd):	2026-04-20~2026-05-18
Test Voltage:	DC 5V
Test Engineer:	Stone Zhang



Test Mode	Frequency (MHz)	Pcs[dBm]	Result	Verdict
802.11a	5180	-48.19	Good	PASS
	5200	-48.22	Good	PASS
	5240	-48.29	Good	PASS
	5260	-48.32	Good	PASS
	5280	-48.35	Good	PASS
	5320	-48.42	Good	PASS
	5500	-48.71	Good	PASS
	5700	-49.02	Good	PASS
	5720	-49.05	Good	PASS

Note: Pcs = $22.79 + Gr - 20 \cdot \log(\text{freq_MHz})$ [dBm]

Test Mode	Frequency (MHz)	Pcs[dBm]	Result	Verdict
802.11n-HT20	5180	-48.19	Good	PASS
	5200	-48.22	Good	PASS
	5240	-48.29	Good	PASS
	5260	-48.32	Good	PASS
	5280	-48.35	Good	PASS
	5320	-48.42	Good	PASS
	5500	-48.71	Good	PASS
	5700	-49.02	Good	PASS
	5720	-49.05	Good	PASS

Note: Pcs = $22.79 + Gr - 20 \cdot \log(\text{freq_MHz})$ [dBm]

Test Mode	Frequency (MHz)	Pcs[dBm]	Result	Verdict
802.11n-HT40	5190	-48.20	Good	PASS
	5230	-48.27	Good	PASS
	5270	-48.34	Good	PASS
	5310	-48.40	Good	PASS
	5510	-48.72	Good	PASS
	5590	-48.85	Good	PASS
	5710	-49.03	Good	PASS

Note: Pcs = $22.79 + Gr - 20 \cdot \log(\text{freq_MHz})$ [dBm]

Test Mode	Frequency (MHz)	Pcs[dBm]	Result	Verdict
802.11ac-VHT20	5180	-48.19	Good	PASS
	5200	-48.22	Good	PASS
	5240	-48.29	Good	PASS
	5260	-48.32	Good	PASS
	5280	-48.35	Good	PASS
	5320	-48.42	Good	PASS
	5500	-48.71	Good	PASS
	5700	-49.02	Good	PASS
	5720	-49.05	Good	PASS

Note: Pcs = 22.79+Gr-20*log(freq_MHz)[dBm]

Test Mode	Frequency (MHz)	Pcs[dBm]	Result	Verdict
802.11ac-VHT40	5190	-48.20	Good	PASS
	5230	-48.27	Good	PASS
	5270	-48.34	Good	PASS
	5310	-48.40	Good	PASS
	5510	-48.72	Good	PASS
	5590	-48.85	Good	PASS
	5710	-49.03	Good	PASS

Note: Pcs = 22.79+Gr-20*log(freq_MHz)[dBm]

Test Mode	Frequency (MHz)	Pcs[dBm]	Result	Verdict
802.11ac-VHT80	5210	-48.24	Good	PASS
	5290	-48.37	Good	PASS
	5530	-48.75	Good	PASS
	5610	-48.88	Good	PASS
	5690	-49.00	Good	PASS

Note: Pcs = 22.79+Gr-20*log(freq_MHz)[dBm]

16. Dynamic frequency selection

16.1. Requirement

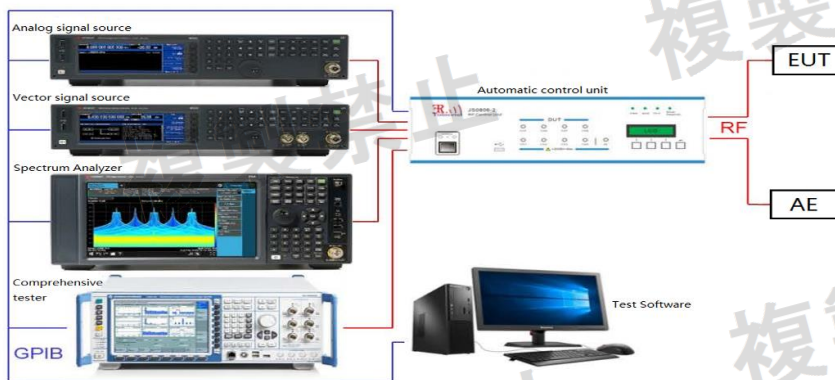
(W53) (W56): Slave Station (Controlled by Master)

It has the following functions.

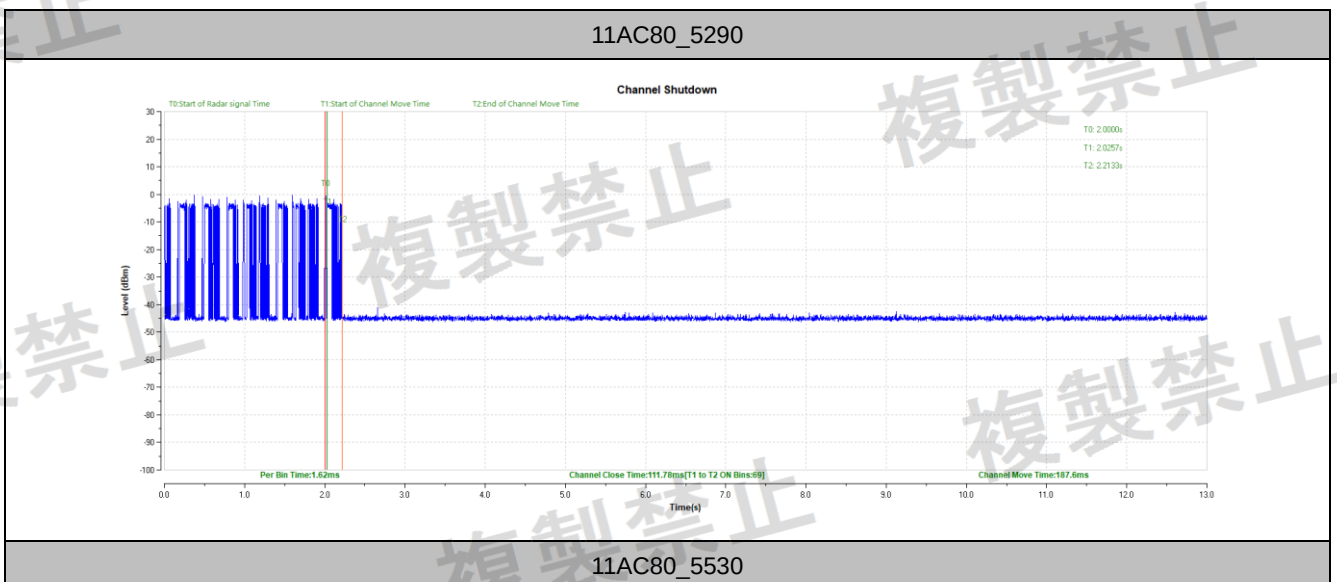
Chooses the frequency which transmits automatically by the control from a "master station".

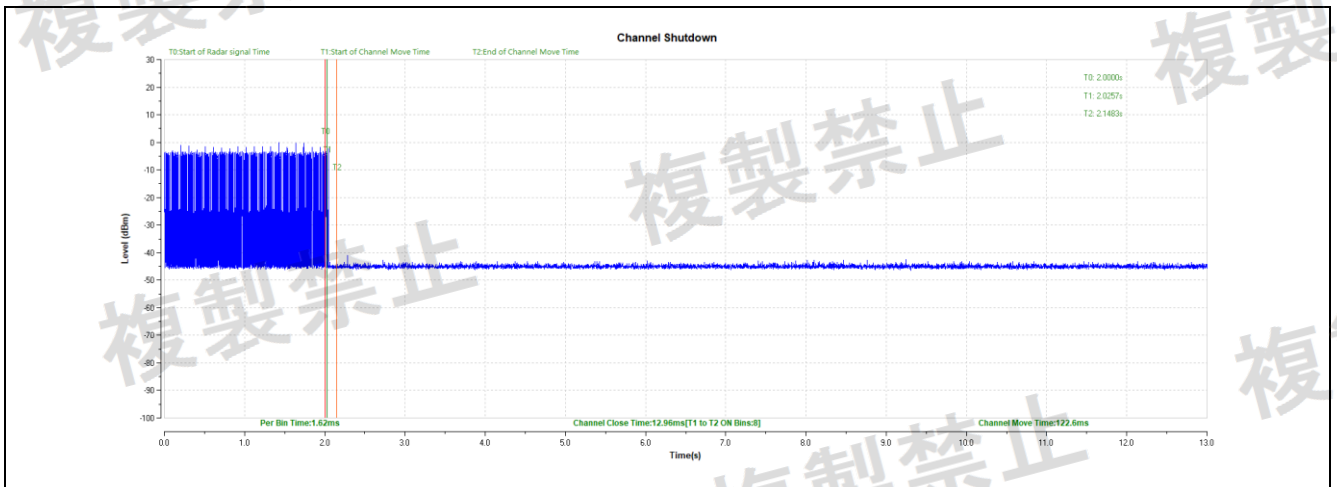
Transmission and a stop of a radio wave are performed by the control from a "master station".

16.2. Test Setup



16.3. Test Result





17. Construction Protection Confirmation Method

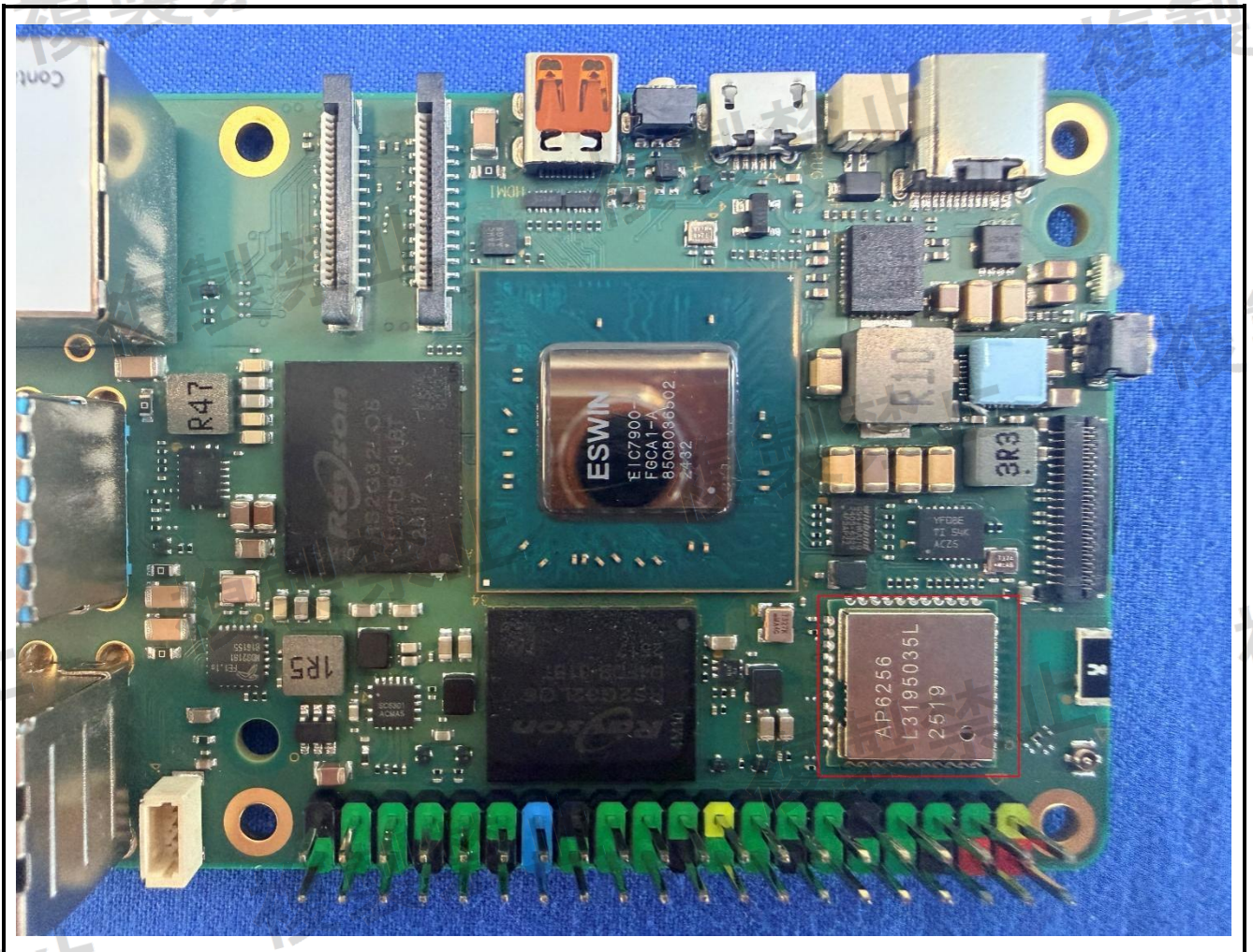
17.1. Limit

(See Article 49-20, Item1-a of the Ordinance Regulating Radio Equipment) The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

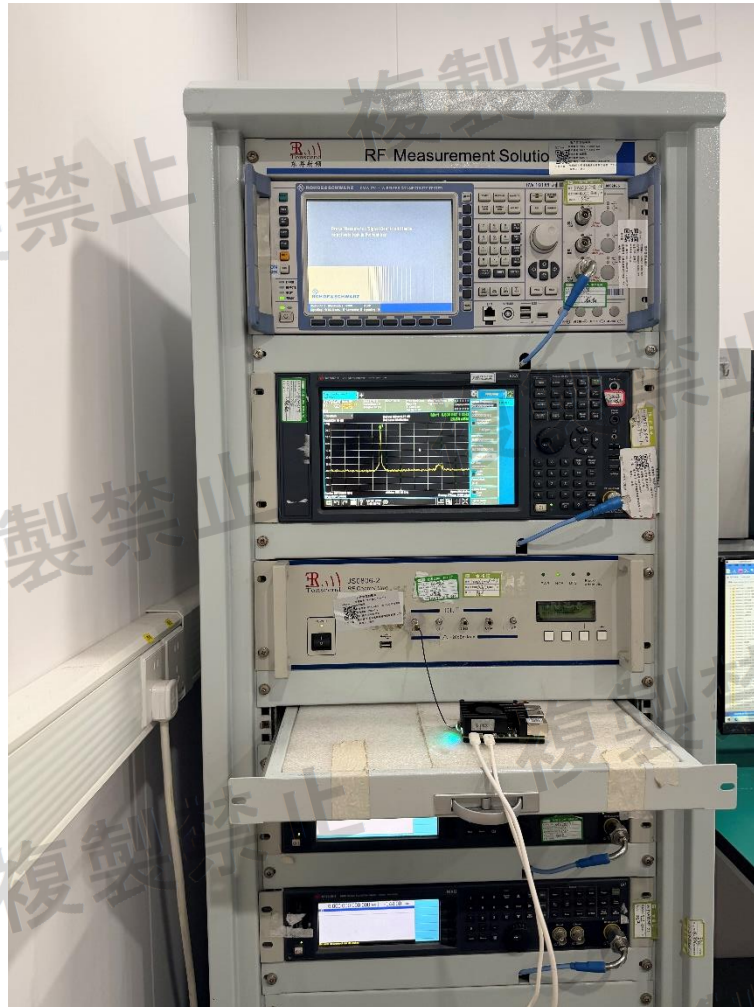
17.2. Confirmation Method

The RF and modulation portions are protected against illegal modification as following method:

Tick the appropriate box	
	1). Sealed with special screws.
	2). Plastic chassis is being welded using ultrasonic waves.
	3). Chassis is glued using a special adhesive.
	4). Metal covers are spot-fused.
	5). Cover is specially interlocked.
☒	6). RF and Modulation components are covered with shielding case and this shielding case is soldered.
	7). Shield case is welded at RF and modulation parts, and ID-ROM is welded using the BGA Method.
	8). Shield case is welded at RF and modulation parts, and ID-ROM is glued at its lead with a special adhesive
	9). Shield case is welded at RF and modulation parts, and ID-ROM is glued with a non-transparent laminating agent.
	10). RF and Modulation parts are mounted on PCB with surface mount technology, and there is no any adjustable part on PCB or adjustable parts are not exposed.



18. Photograph of The Test Connection Diagram



19. Appendix - EUT Photograph

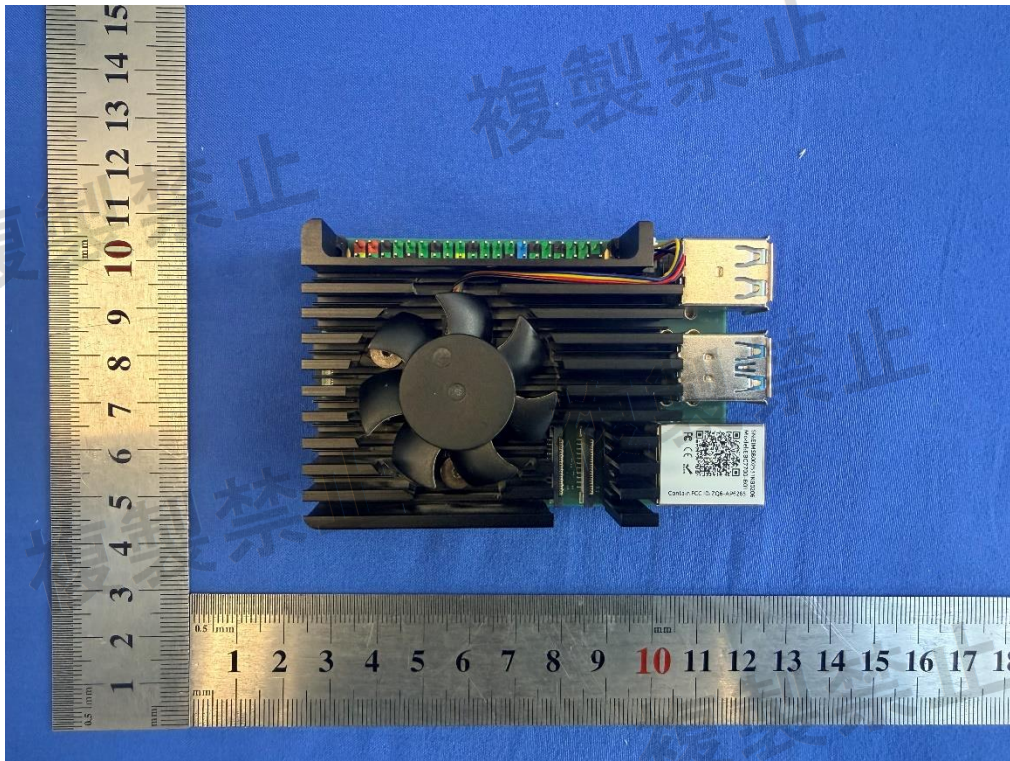


Photo 1: The whole product view

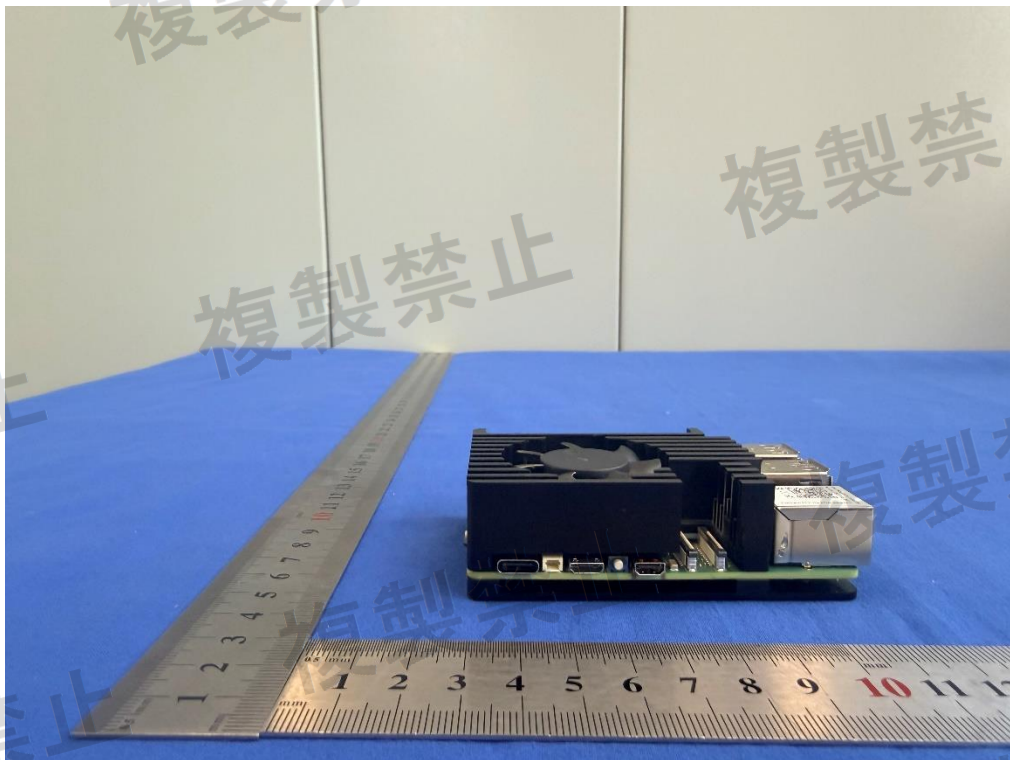


Photo 2: The whole product view

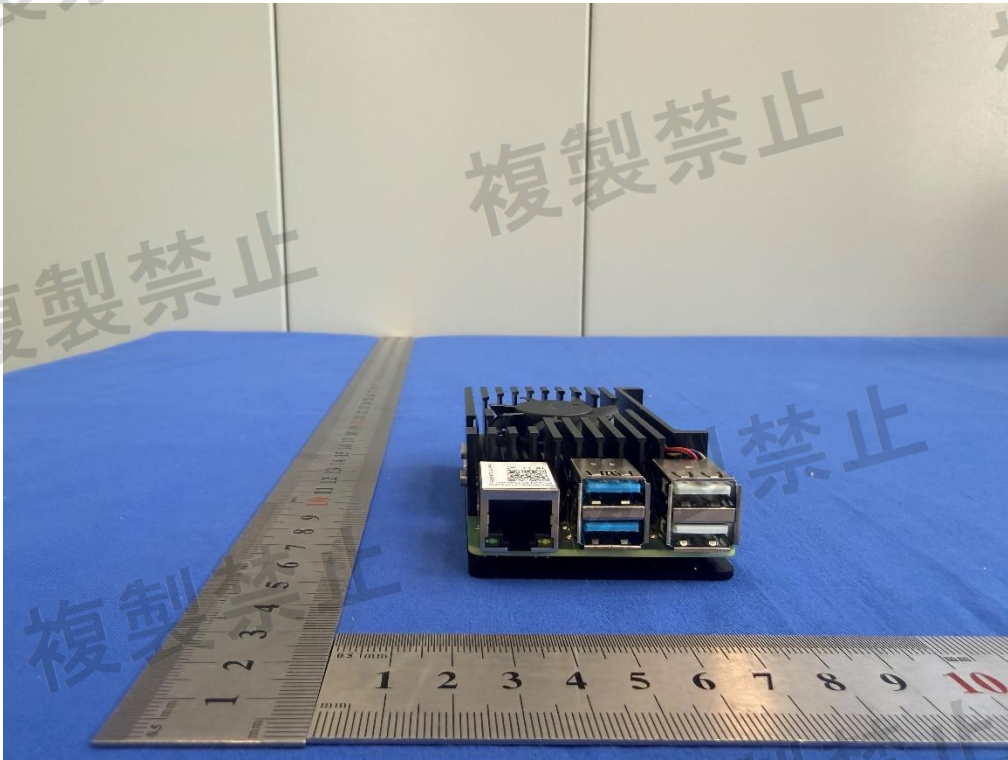


Photo 3: The whole product view

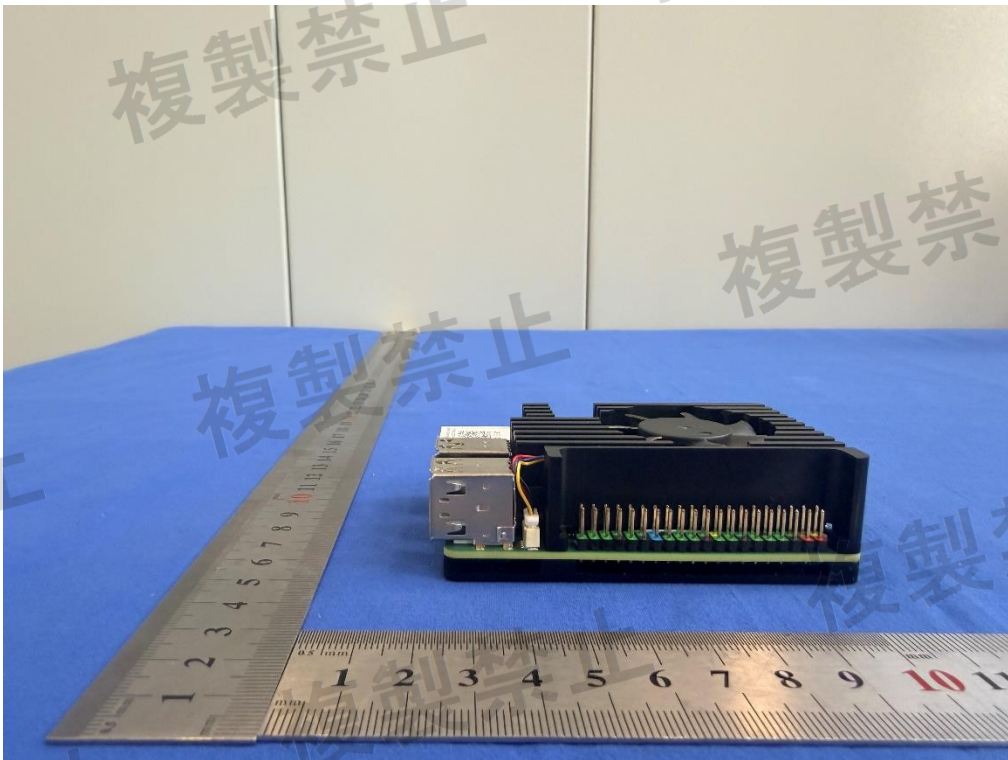


Photo 4: The whole product view

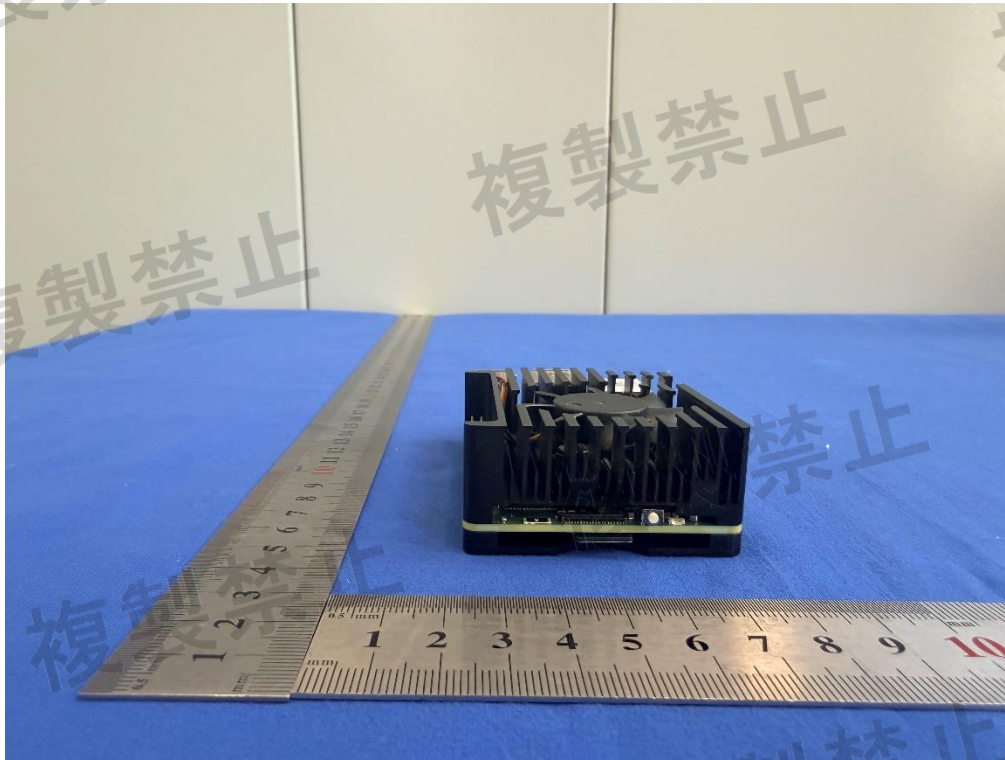


Photo 5: The whole product view

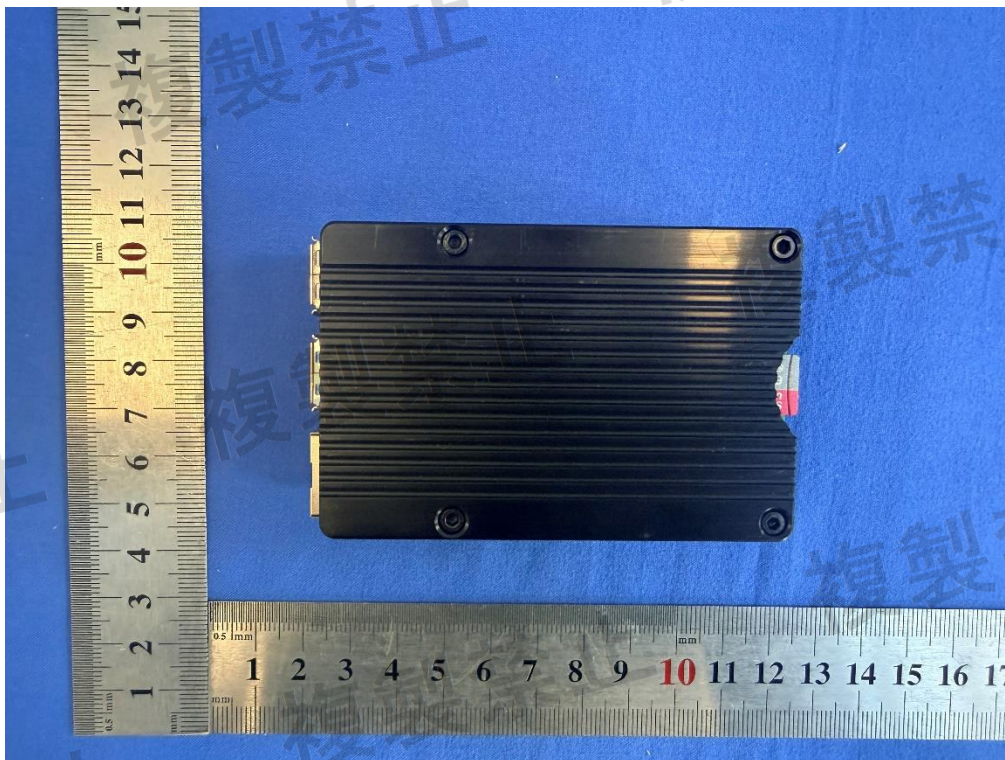


Photo 6: The whole product view

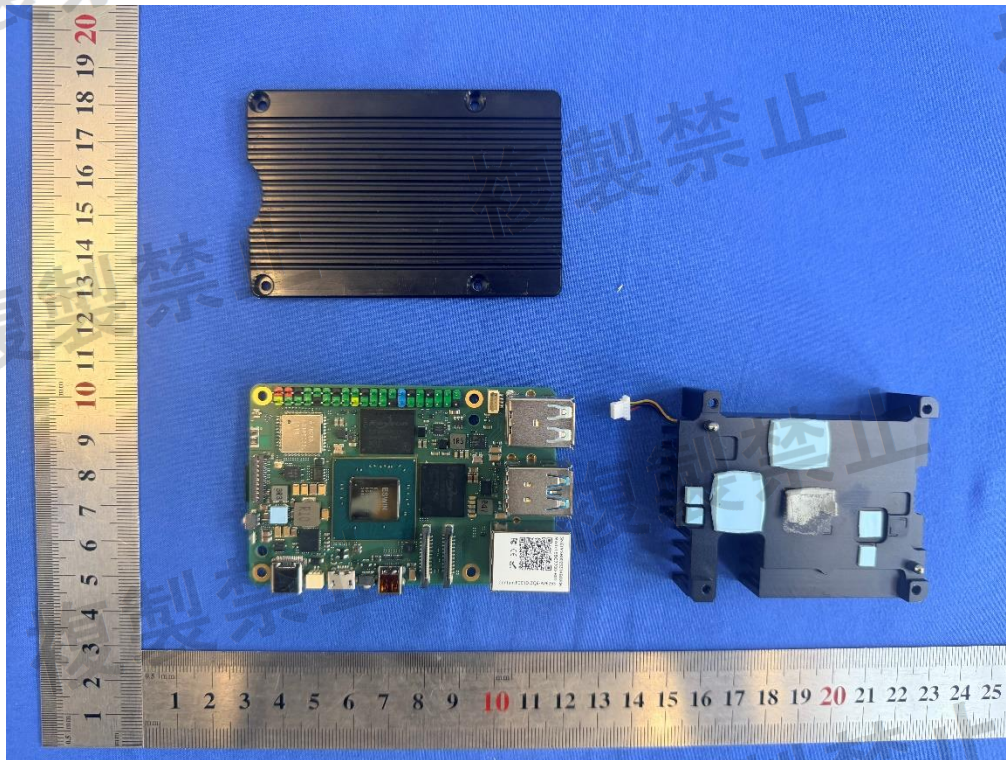


Photo 7: Internal View for PCB

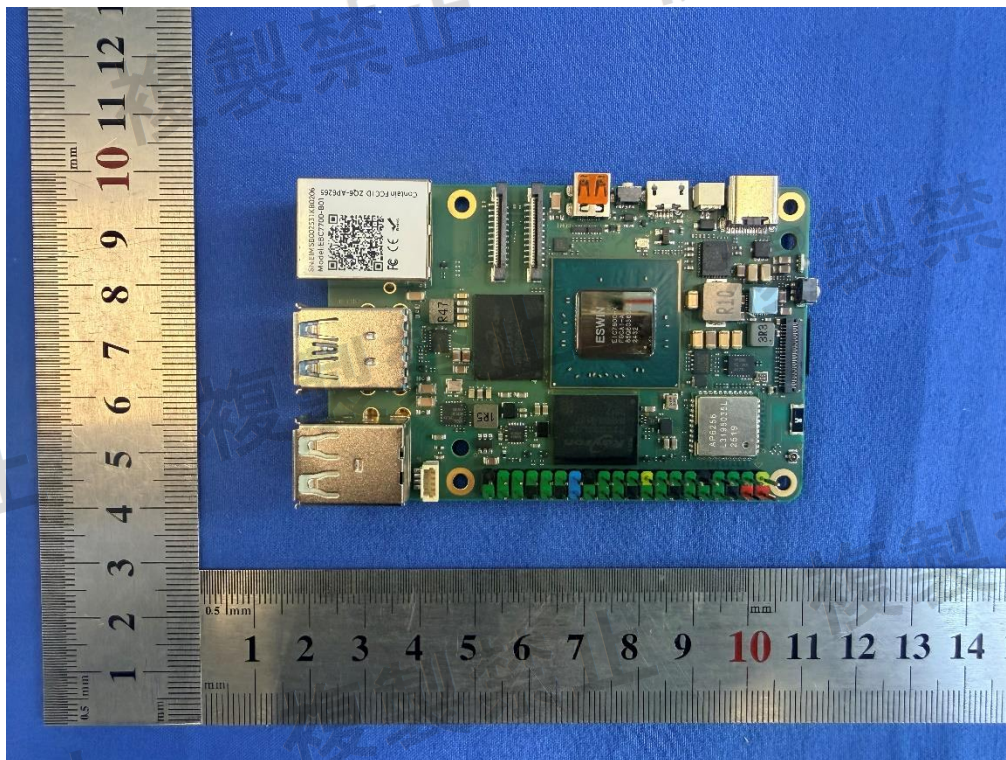


Photo 8: Internal View for PCB

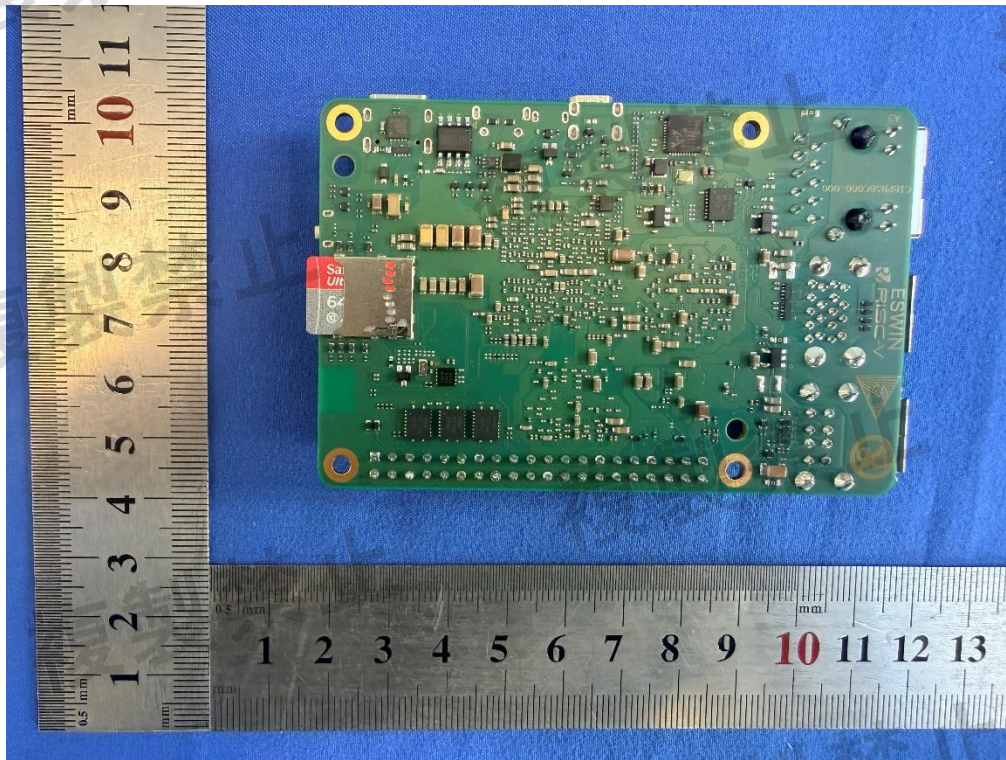


Photo 9: Internal View for PCB

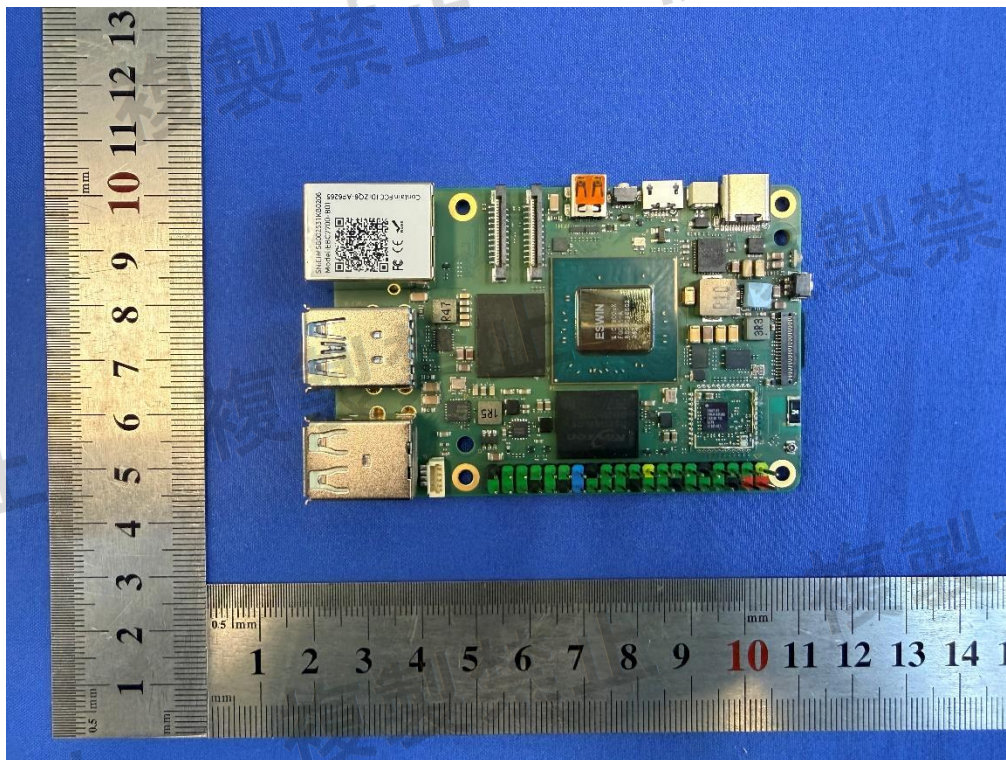


Photo 10: Internal View for PCB

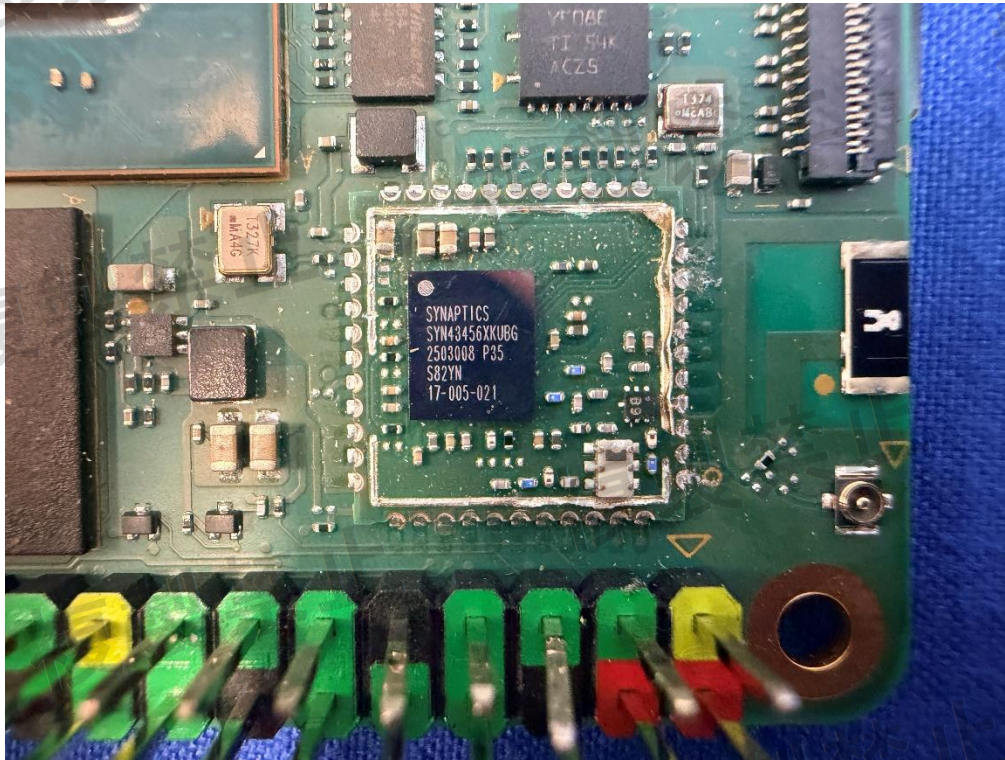


Photo 11: Internal View for PCB

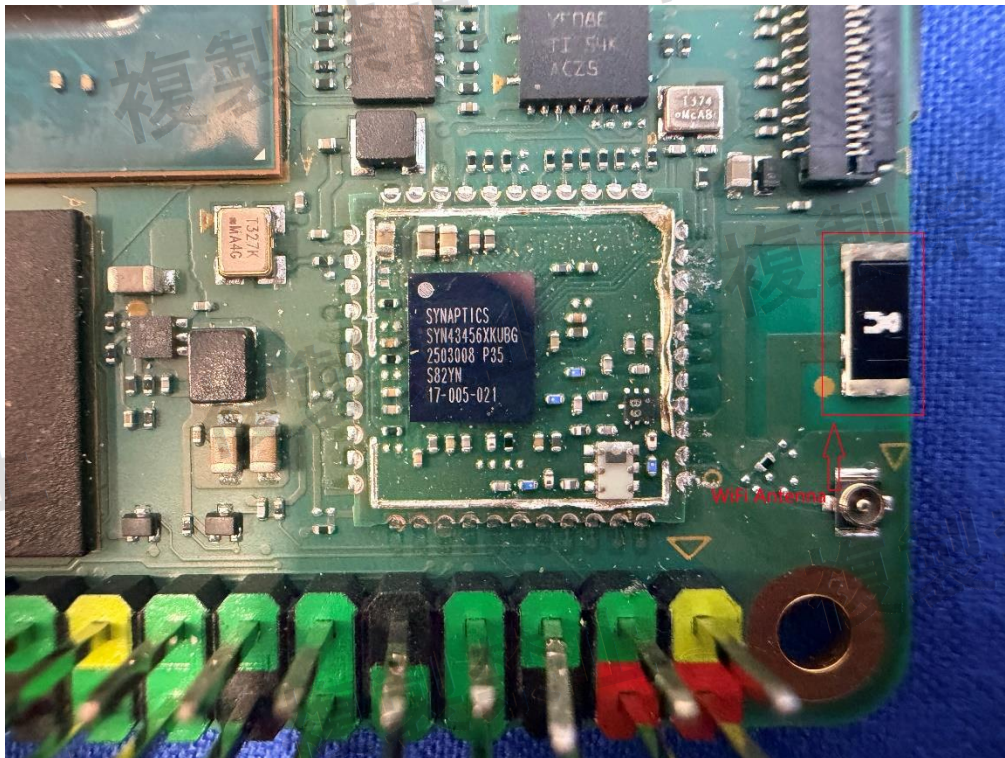


Photo 12: Internal View for WIFI Antenna



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