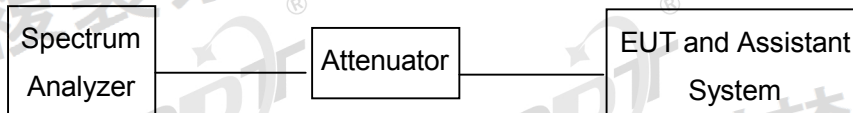


9. Secondary Radiated Emissions

9.1. Limit

The limit on secondary emissions radiated from the receiving equipment within which the function of other radio equipment will not be impaired shall be, in terms of the power of a dummy antenna circuit that has the same electrical constant as the receiving antenna, 4 nW or less at a frequency below 1 GHz and 20 nW or less at a frequency of 1 GHz or higher as measured using the circuit.

9.2. Block diagram of test setup



9.3. Test procedure

- (1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Resolution BW: 100 kHz for frequency below 1 GHz and 1 MHz for frequency above 1 GHz

Video BW: 100 kHz for frequency below 1 GHz and 1 MHz for frequency above 1 GHz

Detector: Peak.

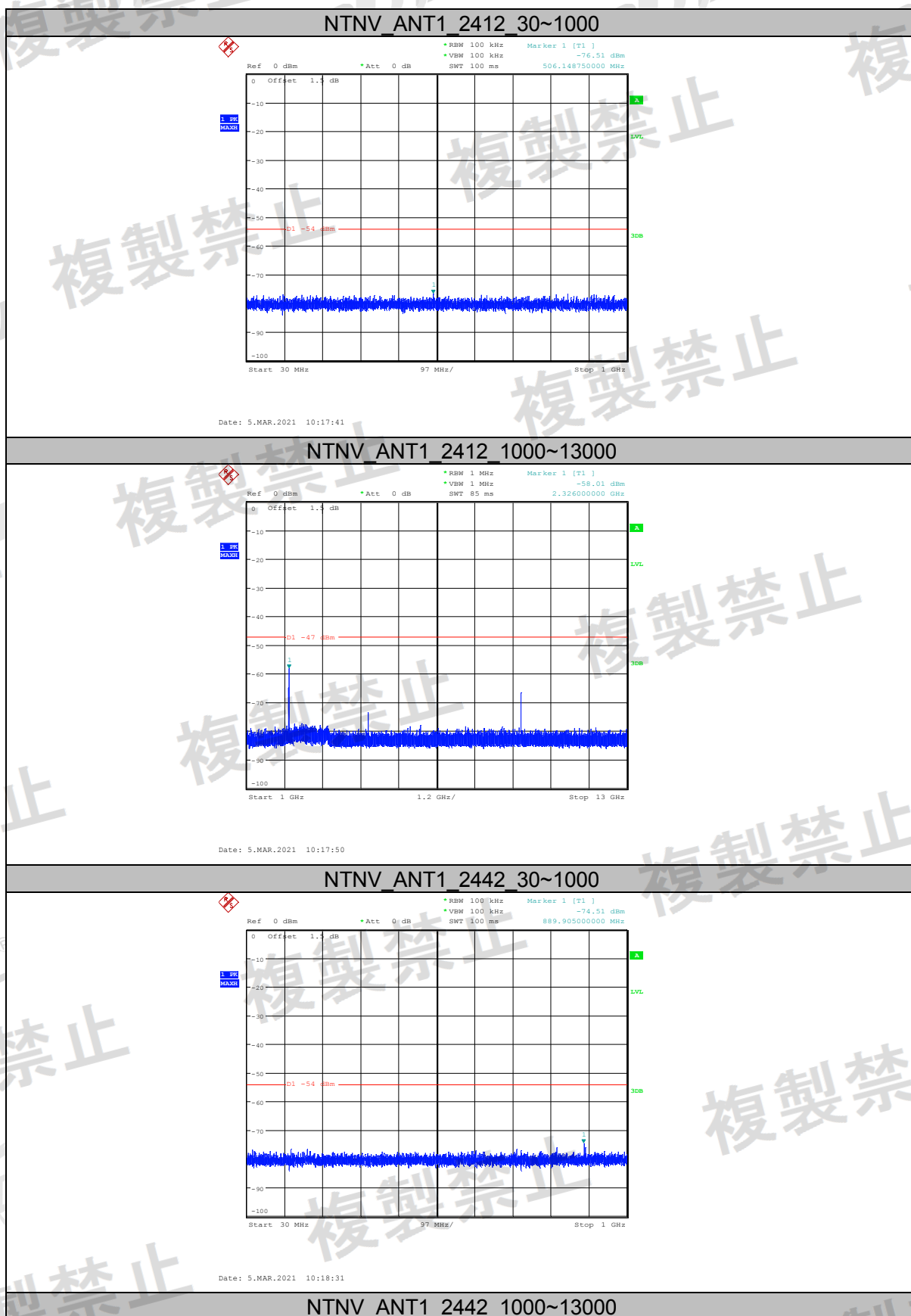
Trace Mode: Max Hold.

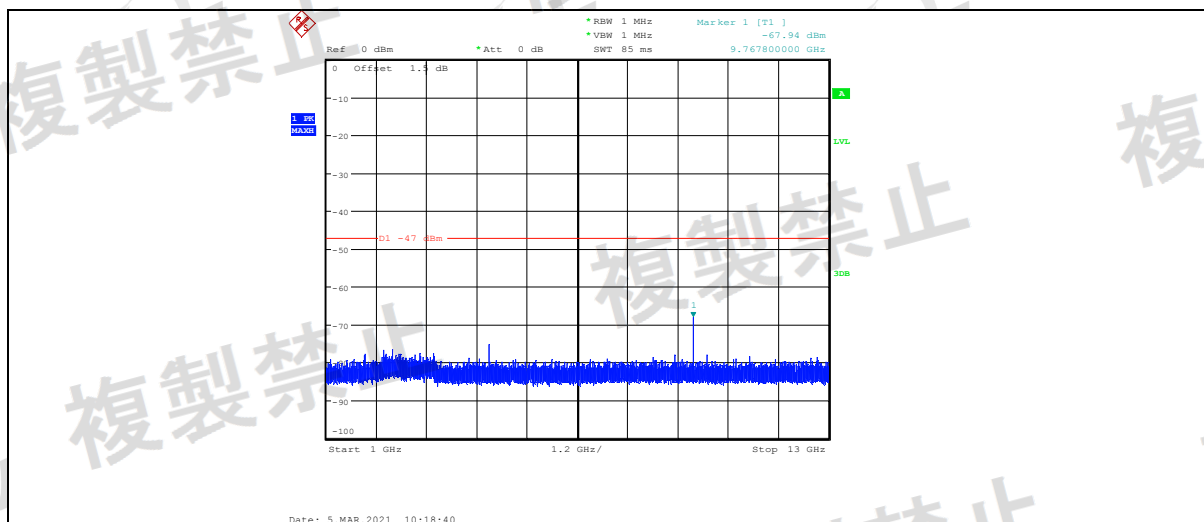
- (2) All the emissions from 30 MHz to 13 GHz were measured and record.

9.4. Test result

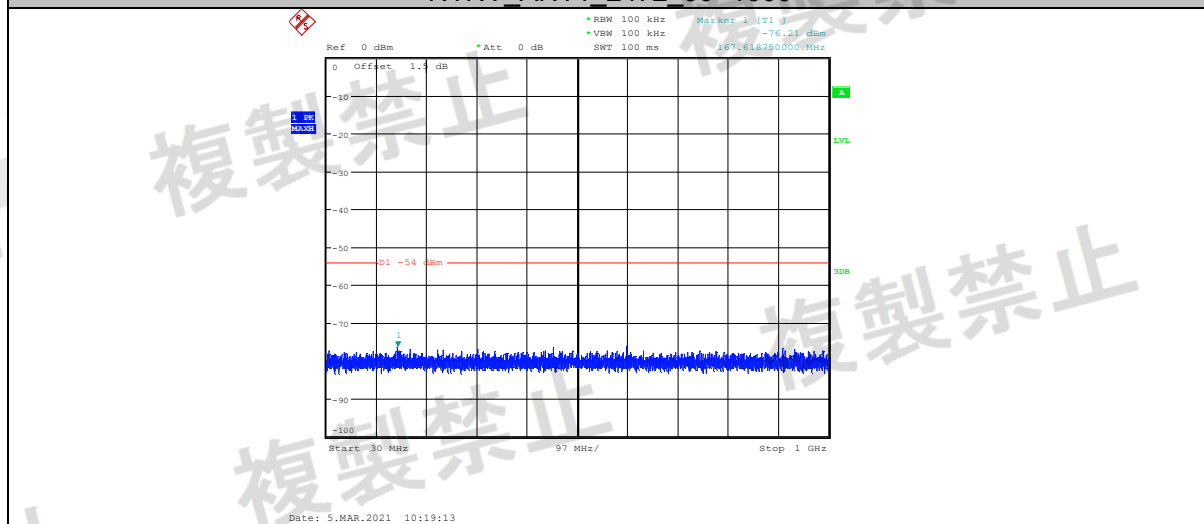
Antenna	Channel (MHz)	Freq. Range (MHz)	Result (dBm)	Limit (dBm)	Verdict
ANT1	2412	30~1000	-76.51	-54	Pass
ANT1	2412	1000~13000	-58.01	-47	Pass
ANT1	2442	30~1000	-74.51	-54	Pass
ANT1	2442	1000~13000	-67.94	-47	Pass
ANT1	2472	30~1000	-76.21	-54	Pass
ANT1	2472	1000~13000	-68.90	-47	Pass

9.5. Original test data

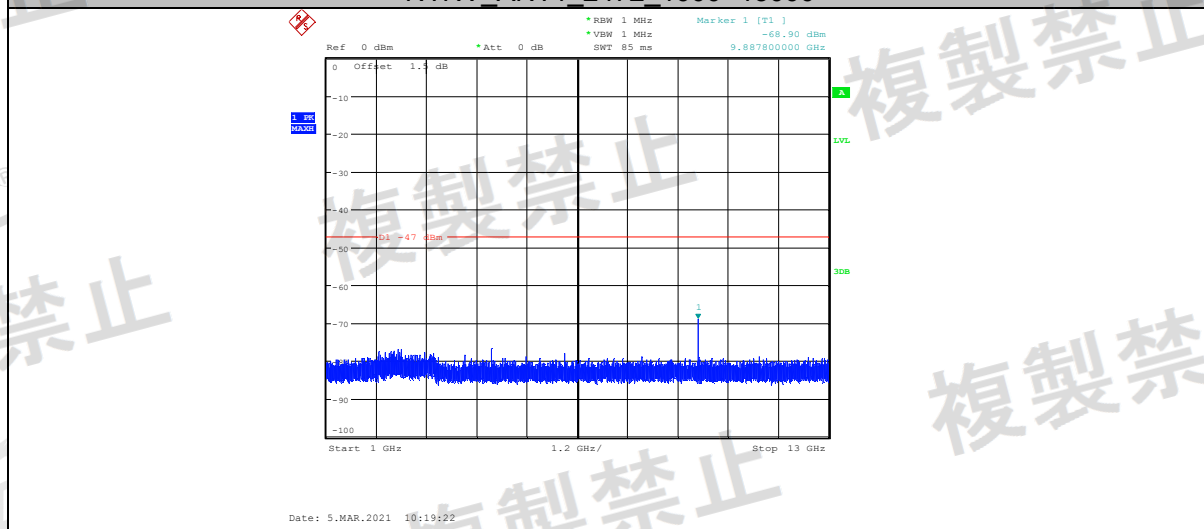




NTNV_ANT1_2472_30~1000



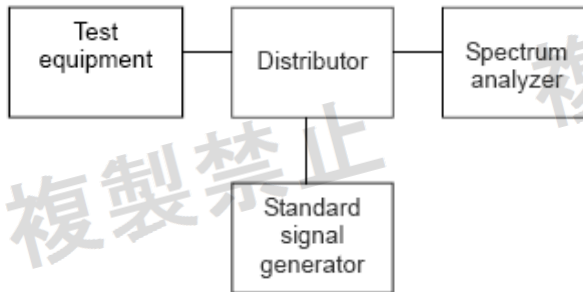
NTNV_ANT1_2472_1000~13000



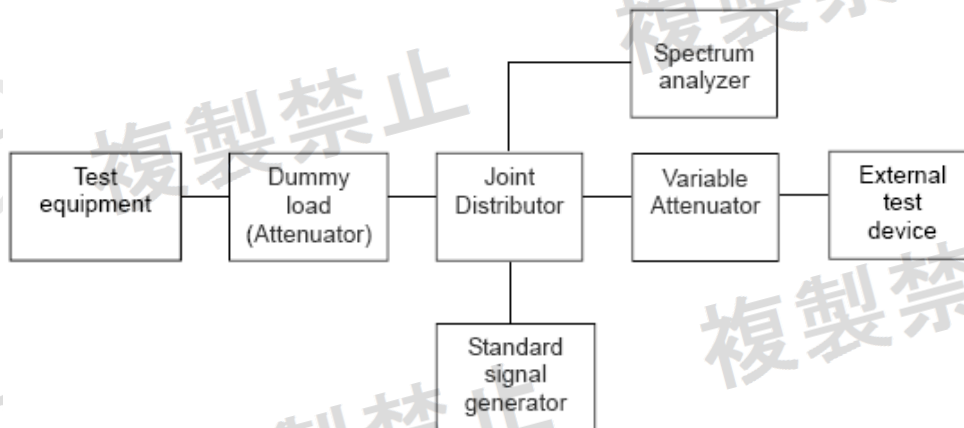
10. Carrier Sense Measurement

1) Measurement system diagram

(1) Test with test equipment only



(2) Test with external test device



2) Condition of measuring instrument

(1) Set the standard signal generator as follows:

Carrier frequency: Center frequency of receiving frequency band of test equipment

Modulation: No modulation. (note1)

Output level: regulated level on antenna input of test equipment

Note 1: The un-modulated carrier in the center frequency, when the carrier sense function of test equipment is not worked, if necessary, change the frequency or modulate it.

(2) Set the spectrum analyzer as follows:

Center frequency: Center frequency of the bandwidth used (note2)

Sweep frequency band: 50 MHz (note2)

Resolution bandwidth: Approximately 1 MHz

Video bandwidth: Comparable level with resolution bandwidth

Trigger condition: Free-run

Detective mode: positive peak

Note 2: Under 26 MHz of OFDM or other modulated method that with transmit function, set sweep frequency band as 0Hz, detective mode as sample, center frequency as the carrier frequency from 13 MHz to 19 MHz.

(3) External test device must be the one that can connect with the test equipment by line connection. However, facing device that can communicate with the test equipment can substitute it.

3) Condition of test equipment

Set the test equipment at the test frequency and the test spread code, and set it to the receiving mode in the beginning. When using external test device, connect with the test equipment by line connection.

4) Measuring operation procedure

(1) Test with test equipment only:

A) Set the spectrum analyzer according to (2) of 2).

B) Set the test equipment to the transmitting operation with the output of standard signal generator OFF, and confirm that it emits over 26 MHz occupied frequency bandwidth OFDM radio wave, by using spectrum analyzer.

C) Set the test equipment to the receiving mode.

D) With the output of standard signal generator ON, set the test equipment to the transmitting operation, and confirm that it does not emit over 26 MHz occupied frequency bandwidth OFDM radio wave, by using spectrum analyzer.

(2) Test with external device

A) Set the spectrum analyzer according to (2) of 2).

B) Set the output of standard signal generator OFF.

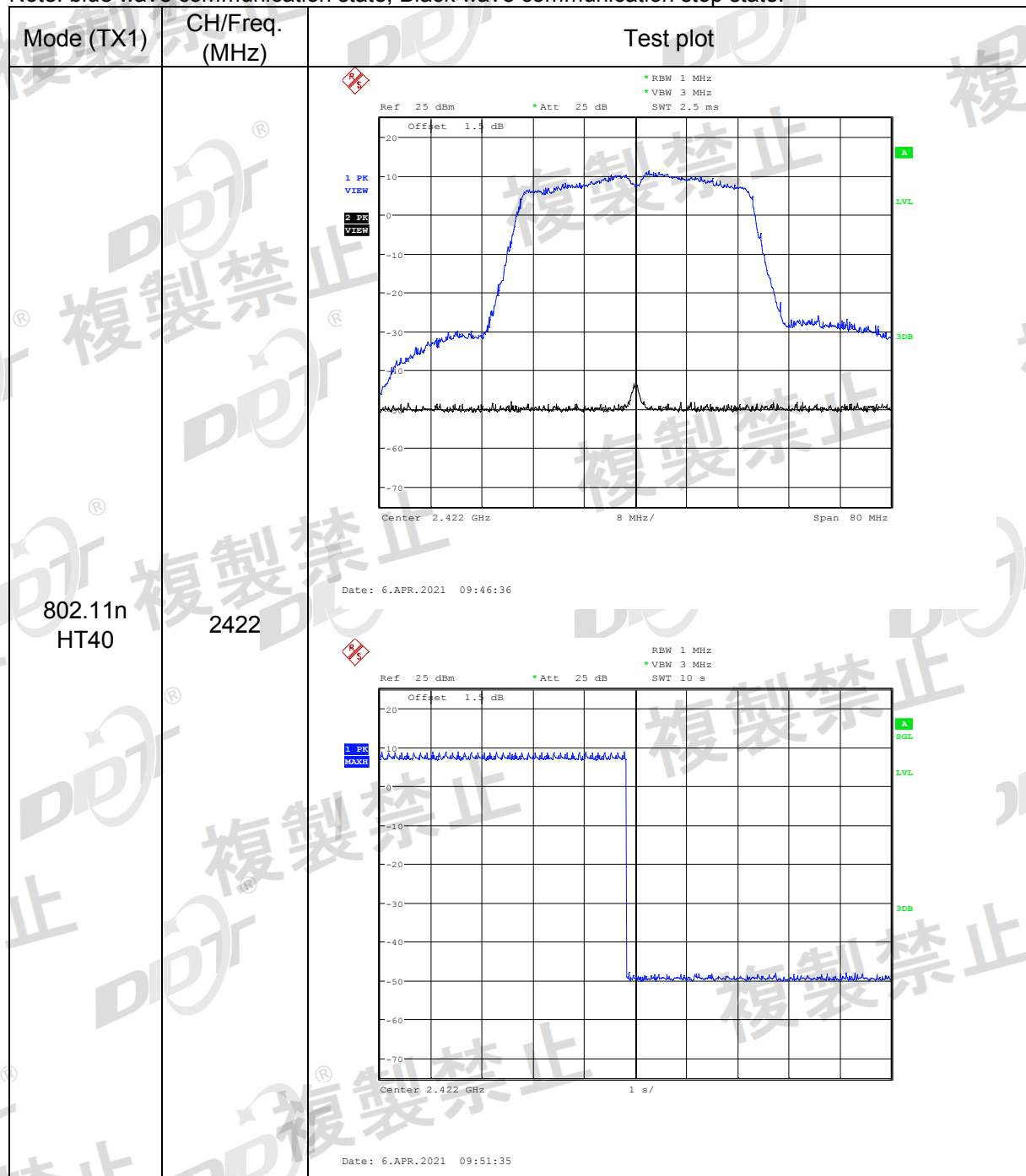
C) Connect test equipment and external test device with line connection. Confirm that it emits over 26 MHz occupied frequency bandwidth OFDM radio wave, by using spectrum analyzer.

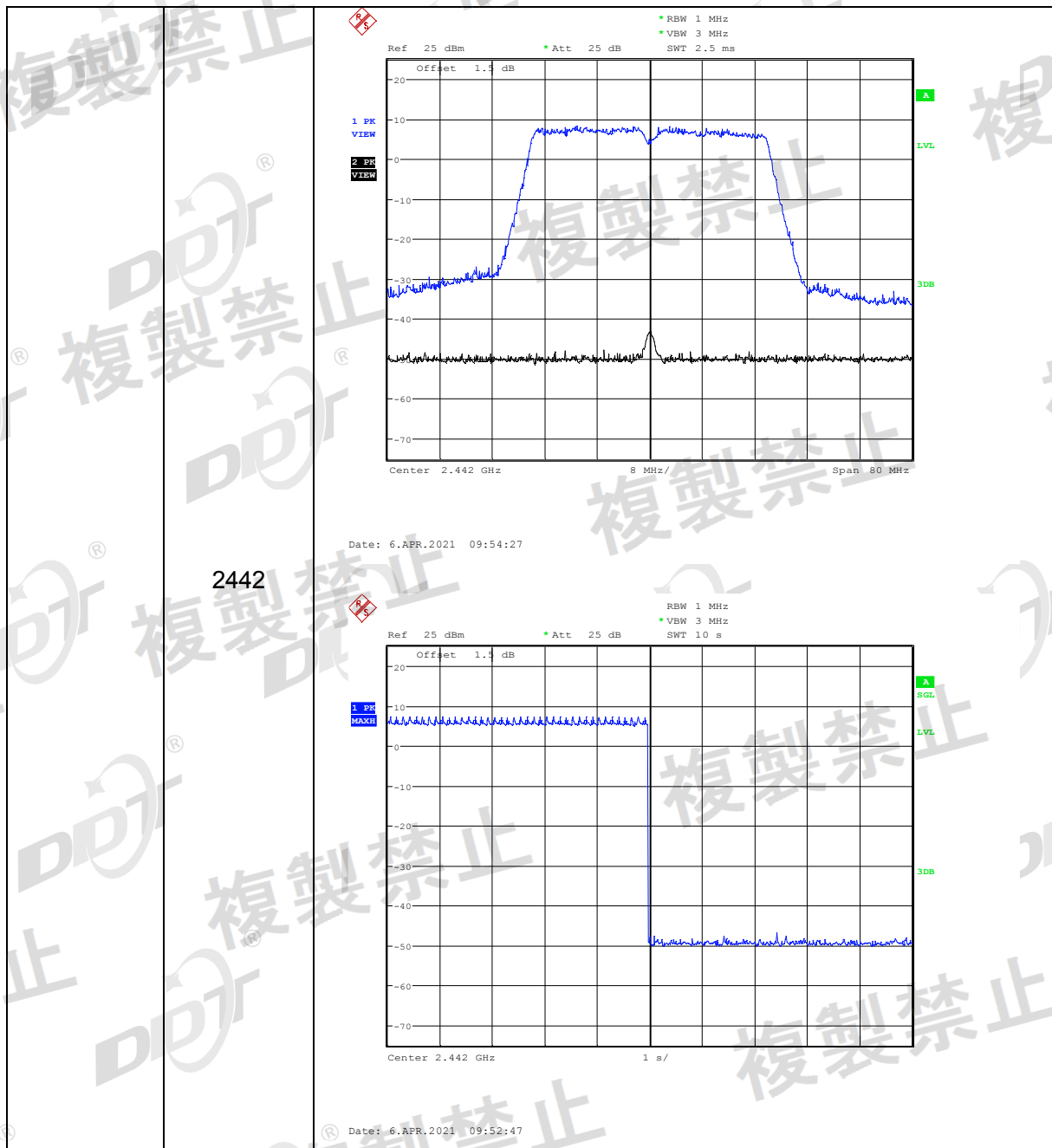
D) Set the test equipment to the receiving mode.

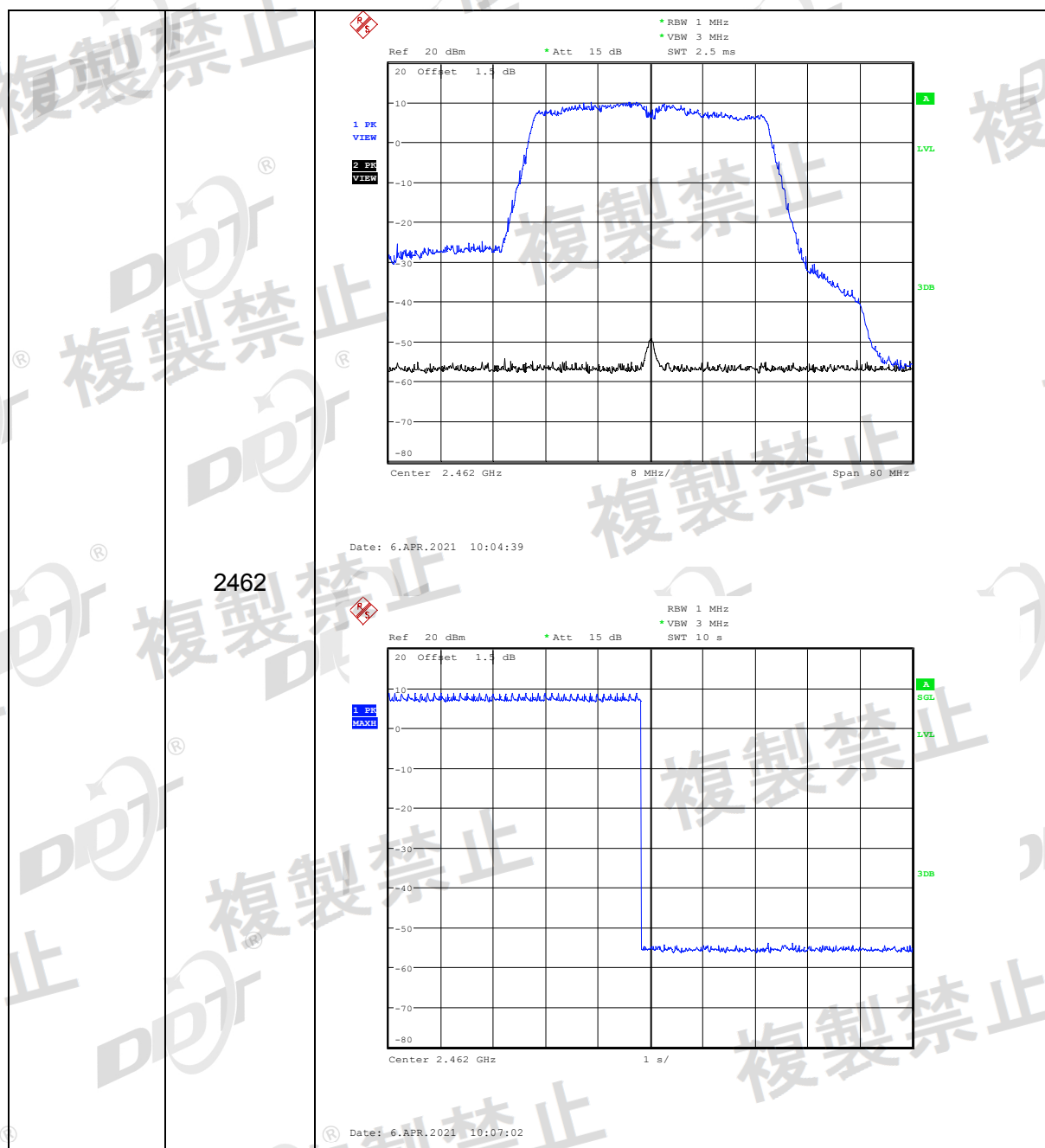
E) With the output of standard signal generator ON, set the test equipment to the transmitting operation, and confirm that it does not emit over 26 MHz occupied frequency bandwidth OFDM radio wave, by using spectrum analyzer.

5) Test result: The unit does meet the requirements (Good).

Note: blue wave communication state; Black wave communication stop state.



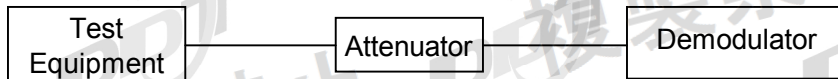




11. Interference Prevention Function

11.1. Measurement system diagram

1) When transmitting identification code



2) Condition of measuring instrument

Demodulator must be able to demodulate the transmitting signal emitted by test equipment and to indicate the identification code.

3) Condition of test equipment the mode of normal use.

11.2. Measuring operation procedure

1) When test equipment has the function to transmit identification code automatically:

A) Transmit the predetermined identification code from test equipment.

B) Confirm the transmitted identification code by demodulator.

MAC 地址
00:0a:f5:3f:bb:39

11.3. Test result: The unit does meet the requirements (Good).

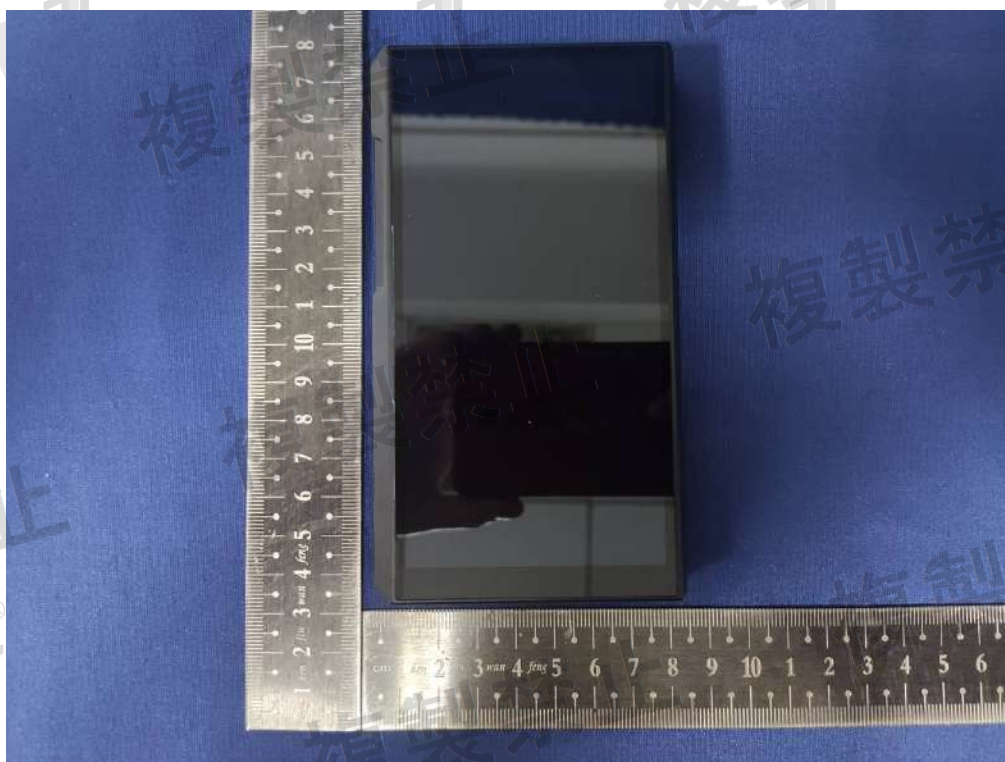
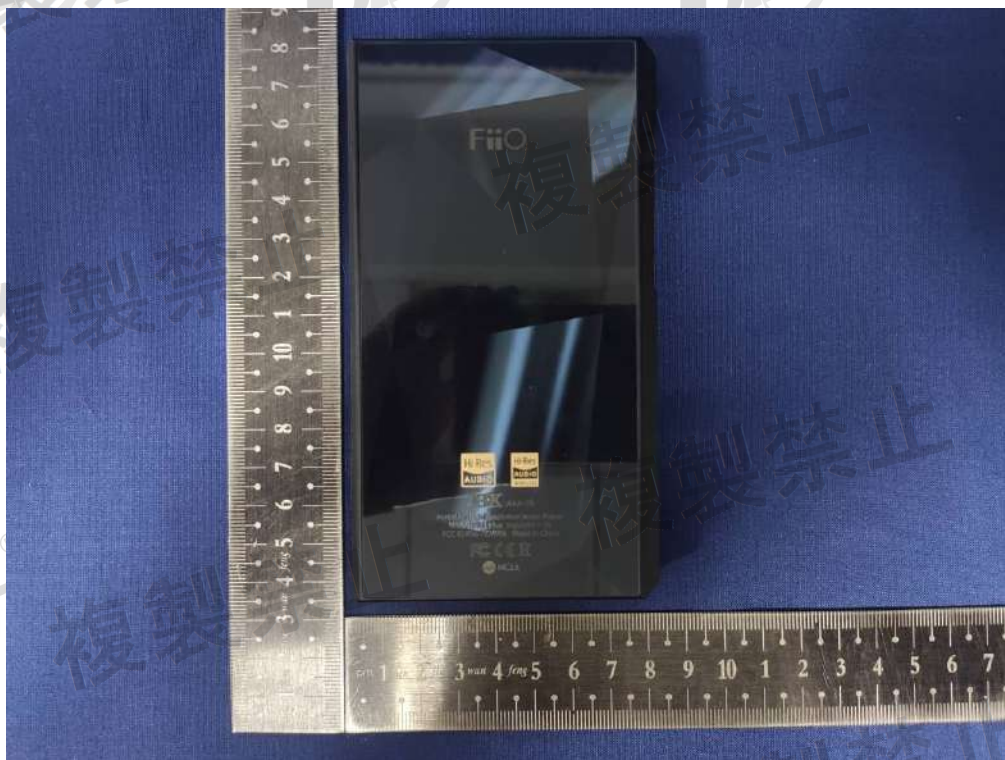
Test result: The unit does meet the requirements.

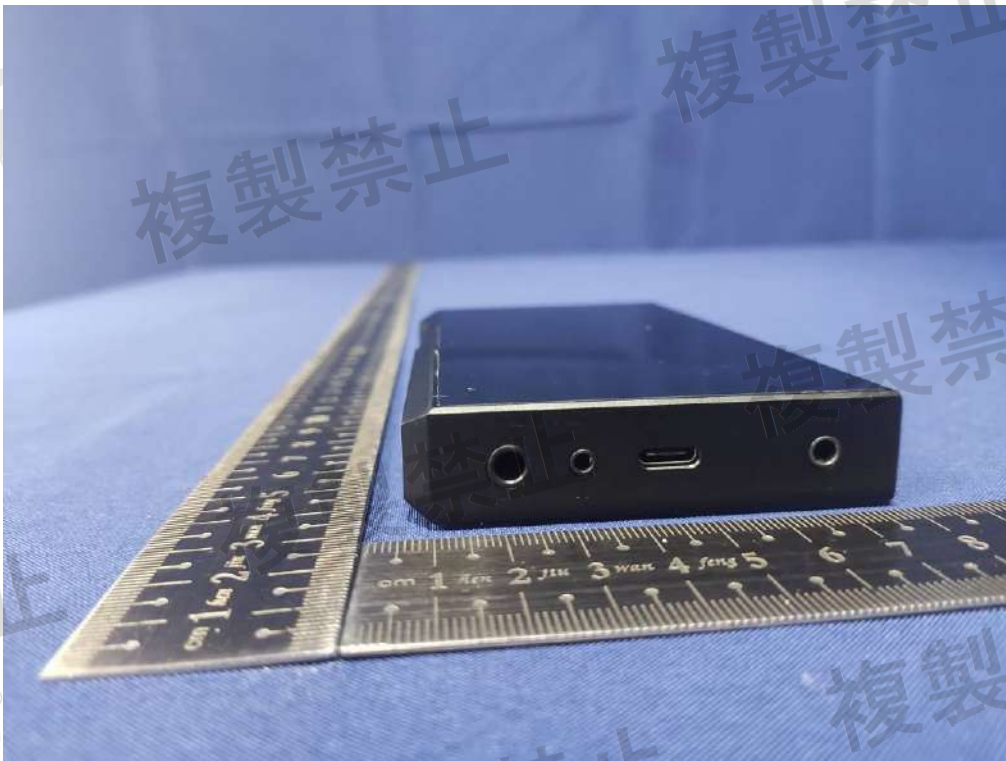
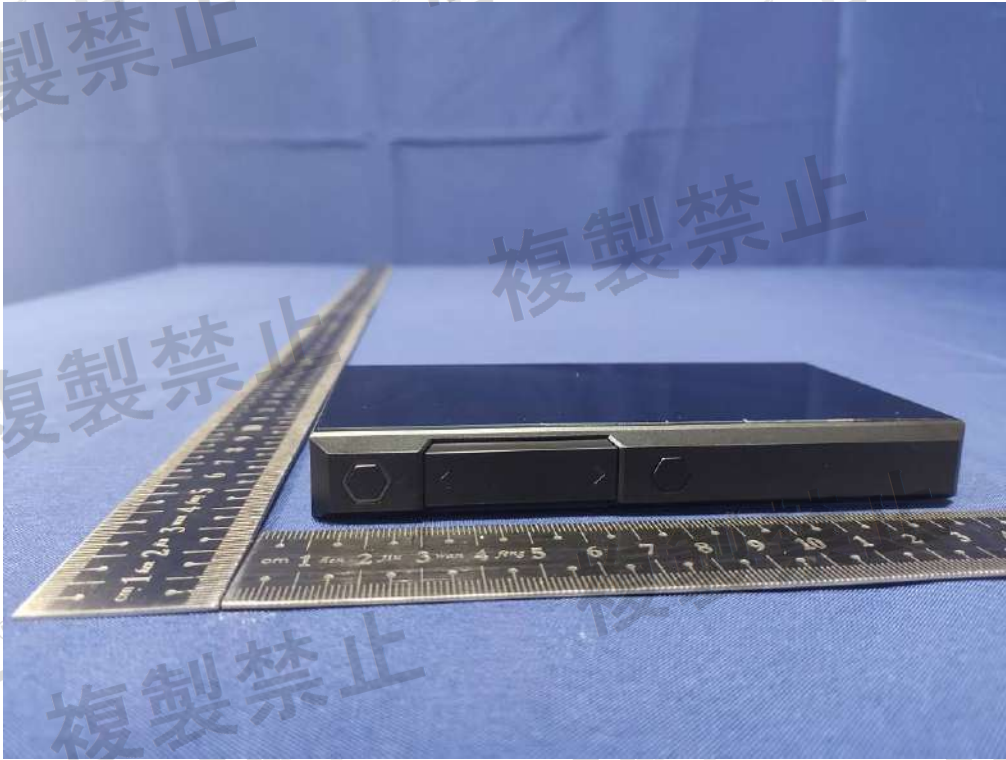
Pass

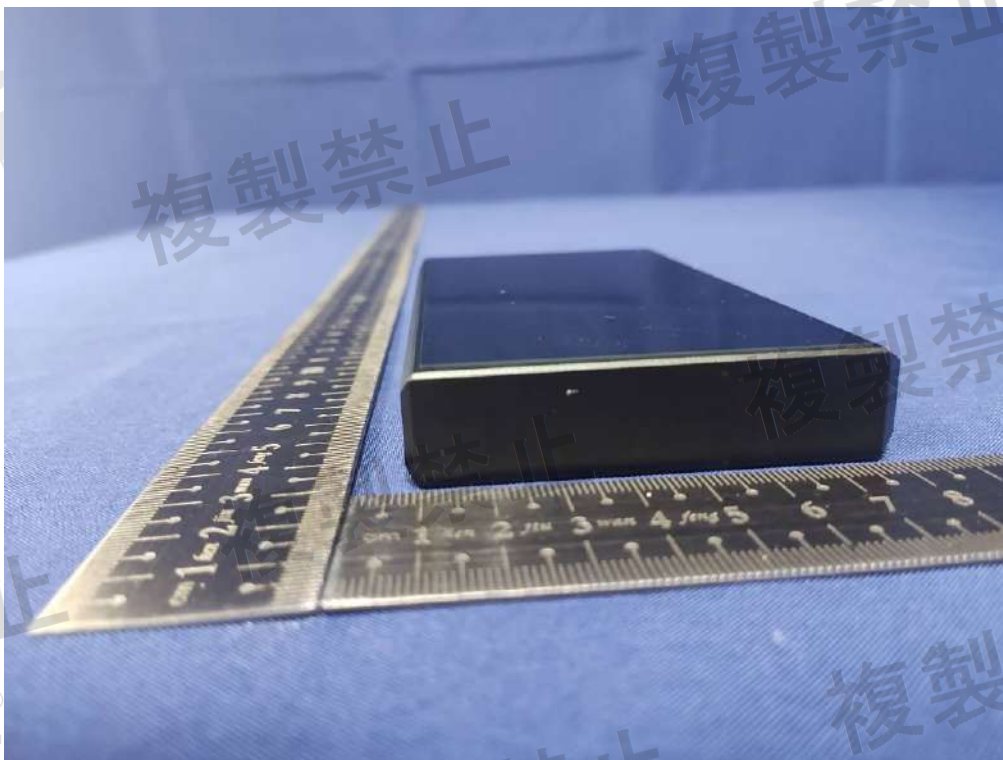
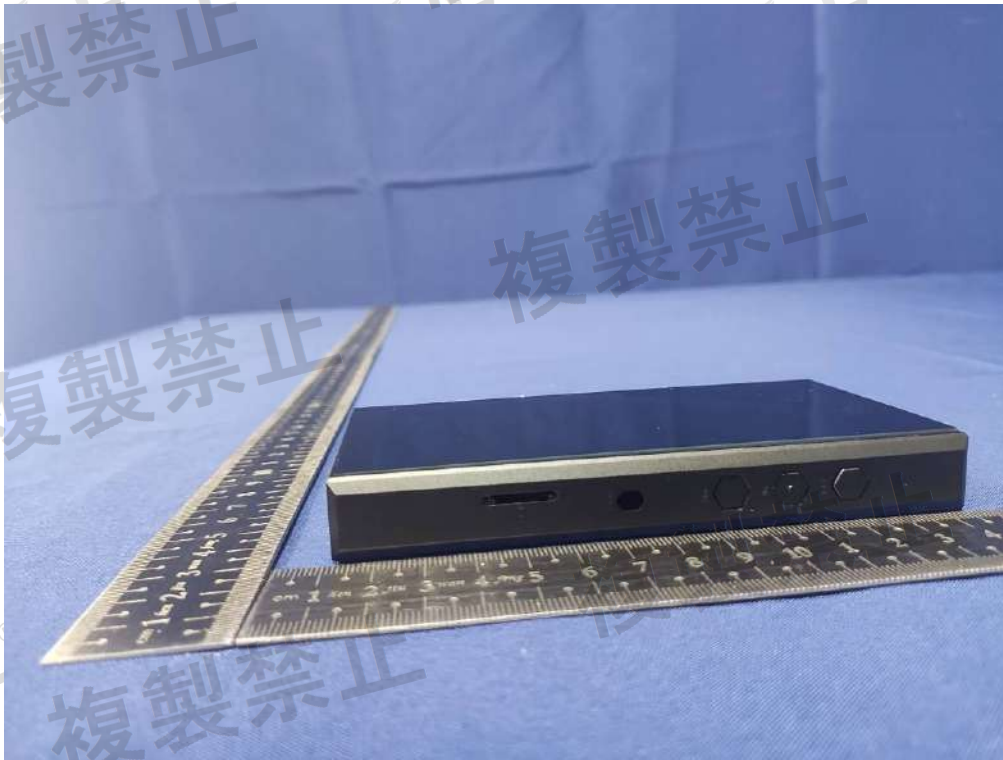
12. Test Setup Photograph

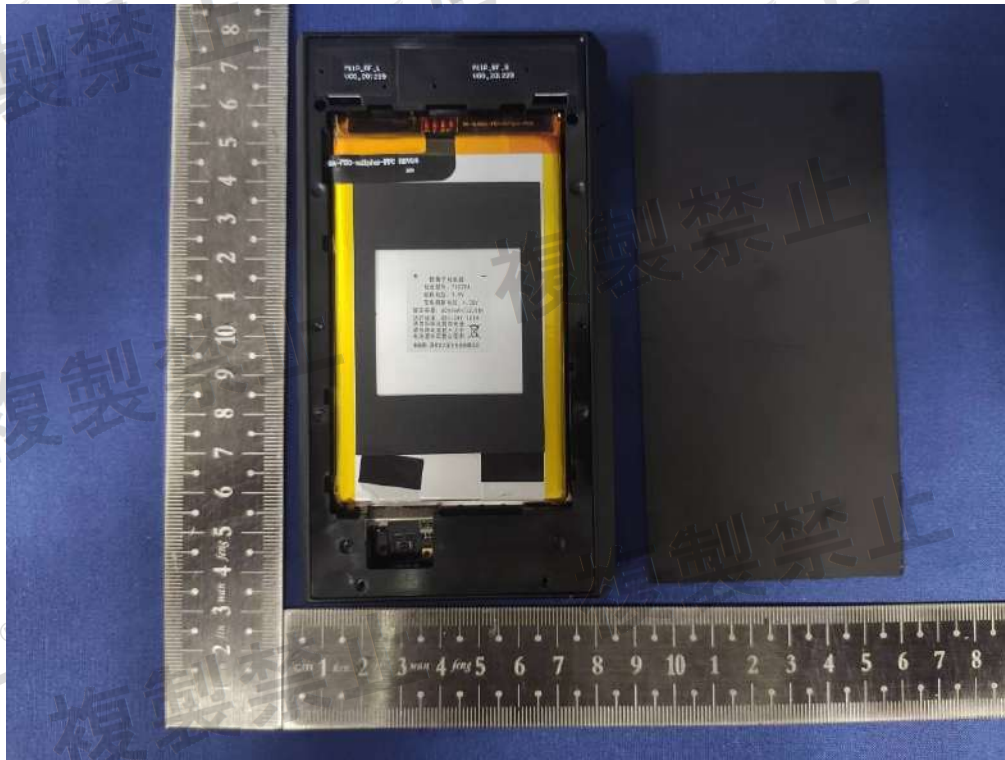


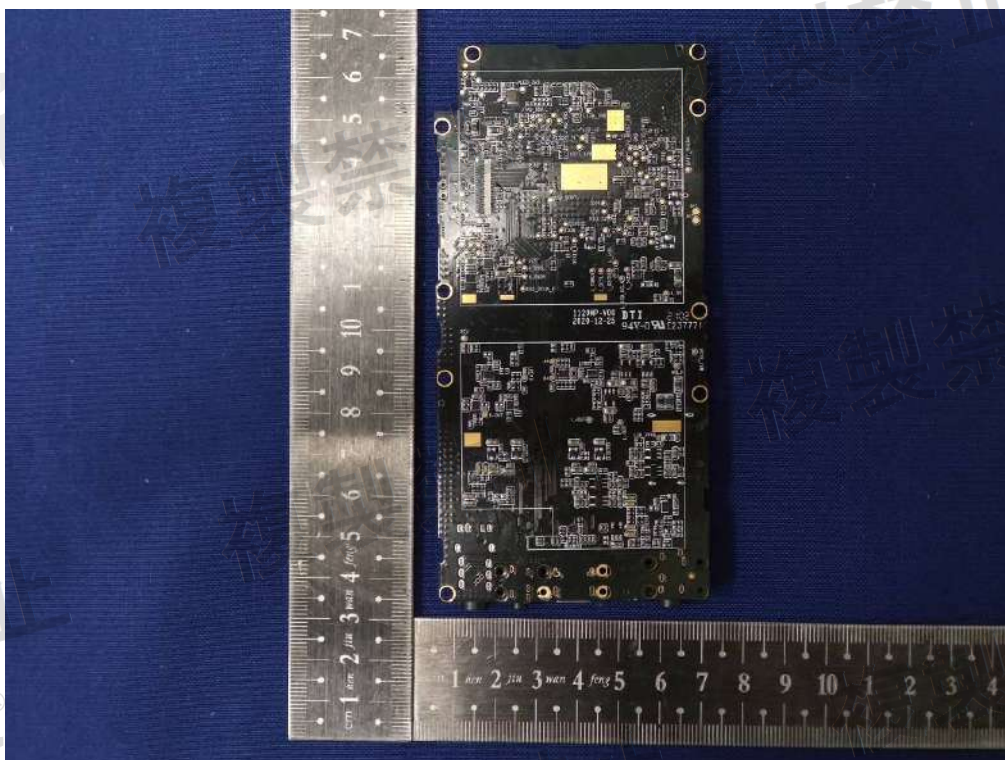
13. Photos of the EUT

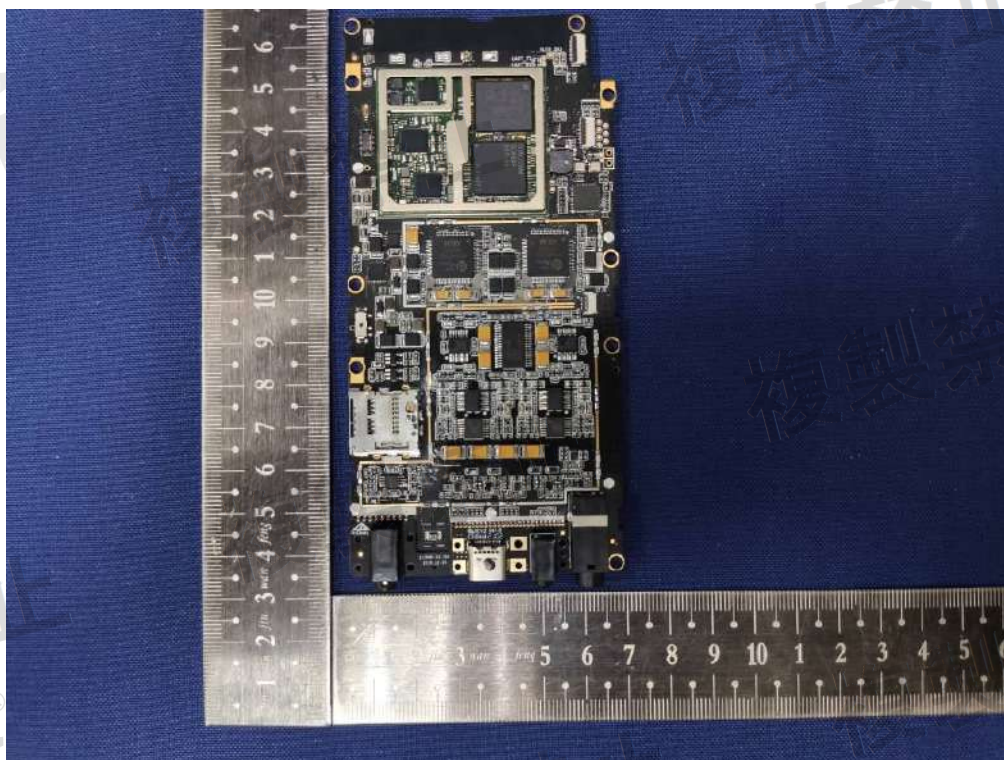


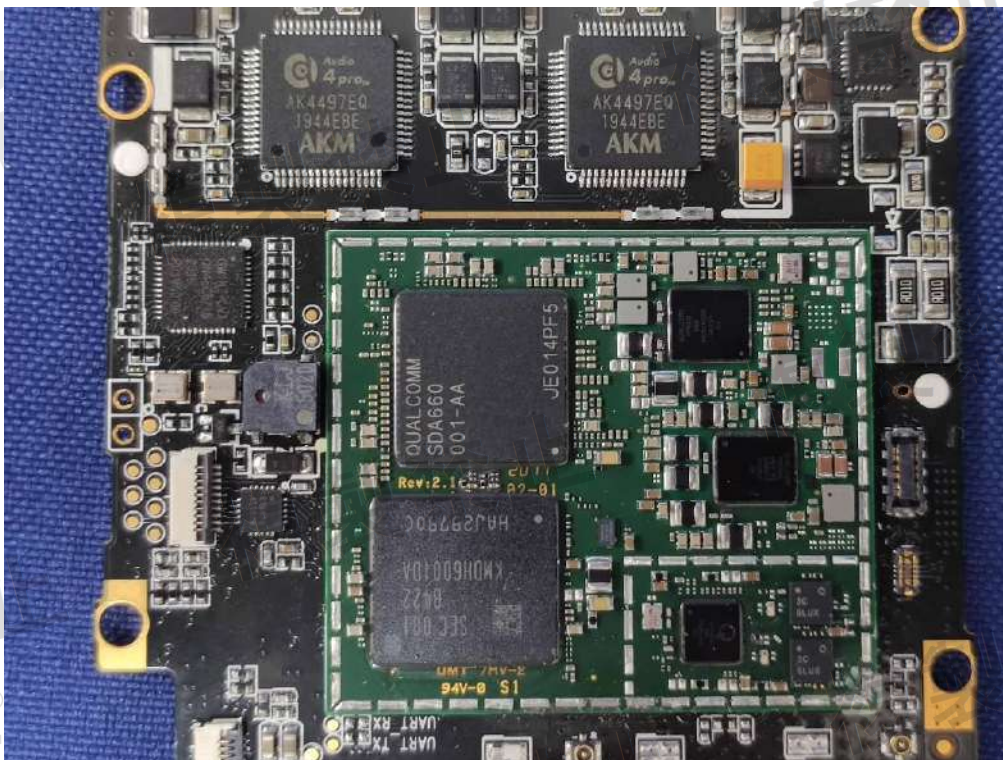
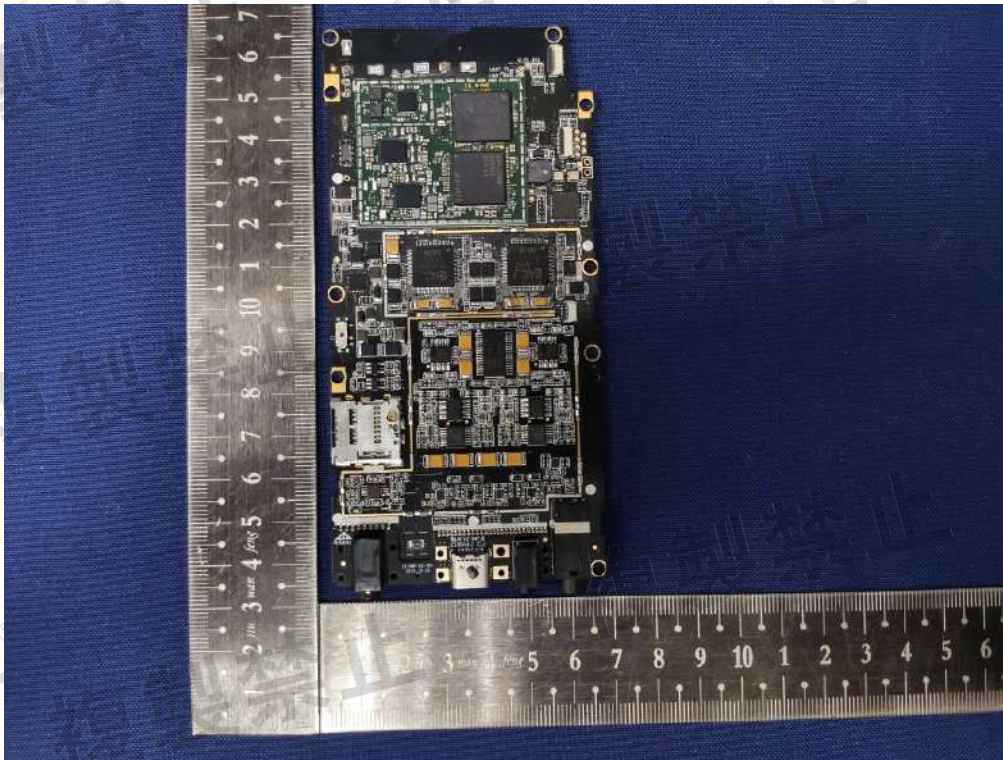


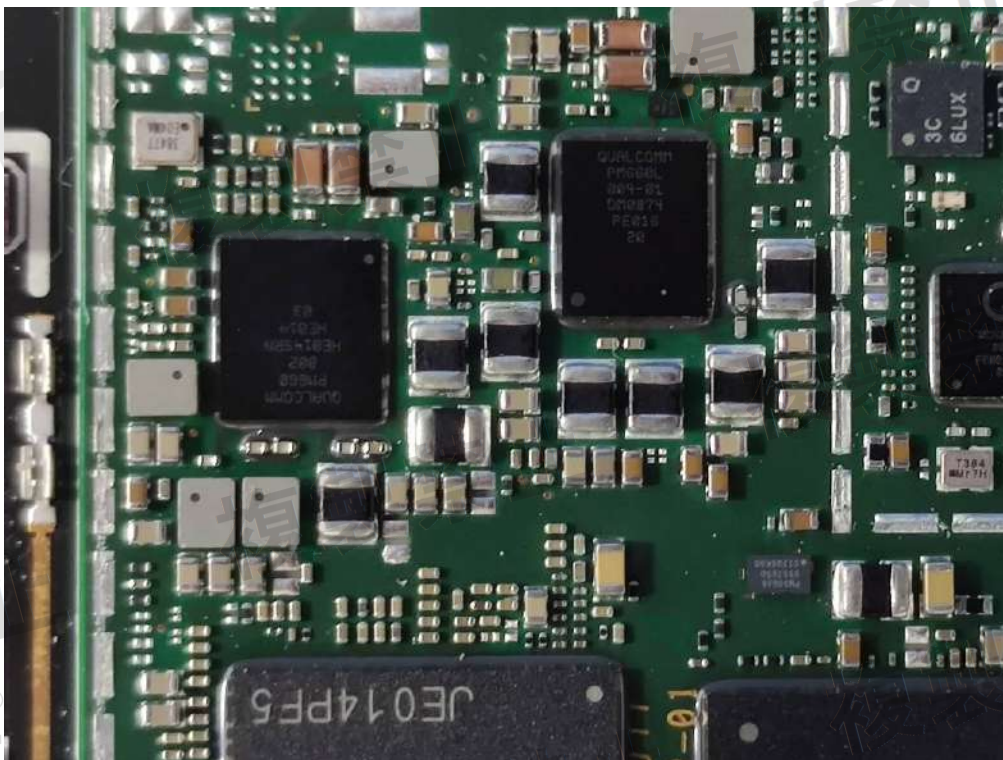
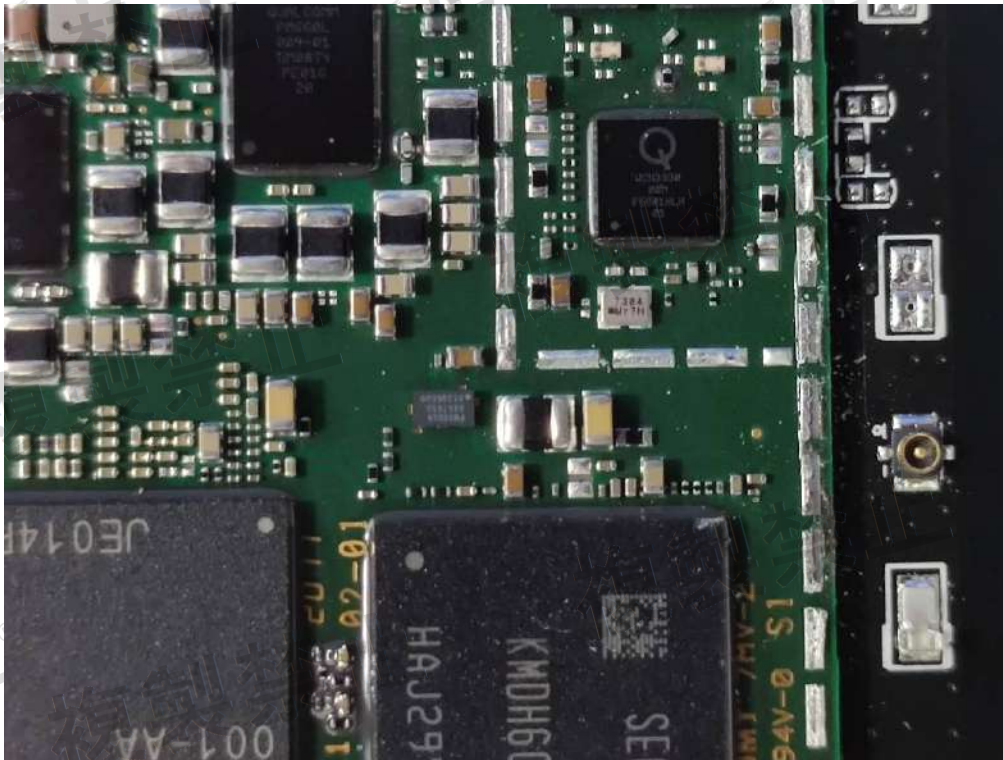


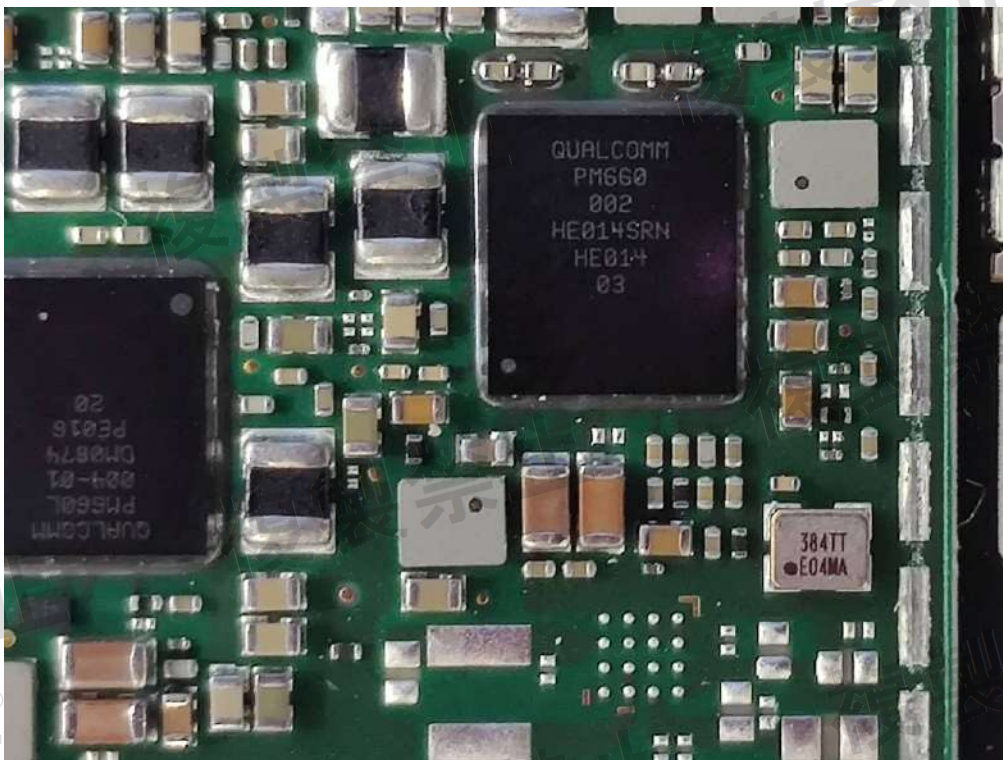
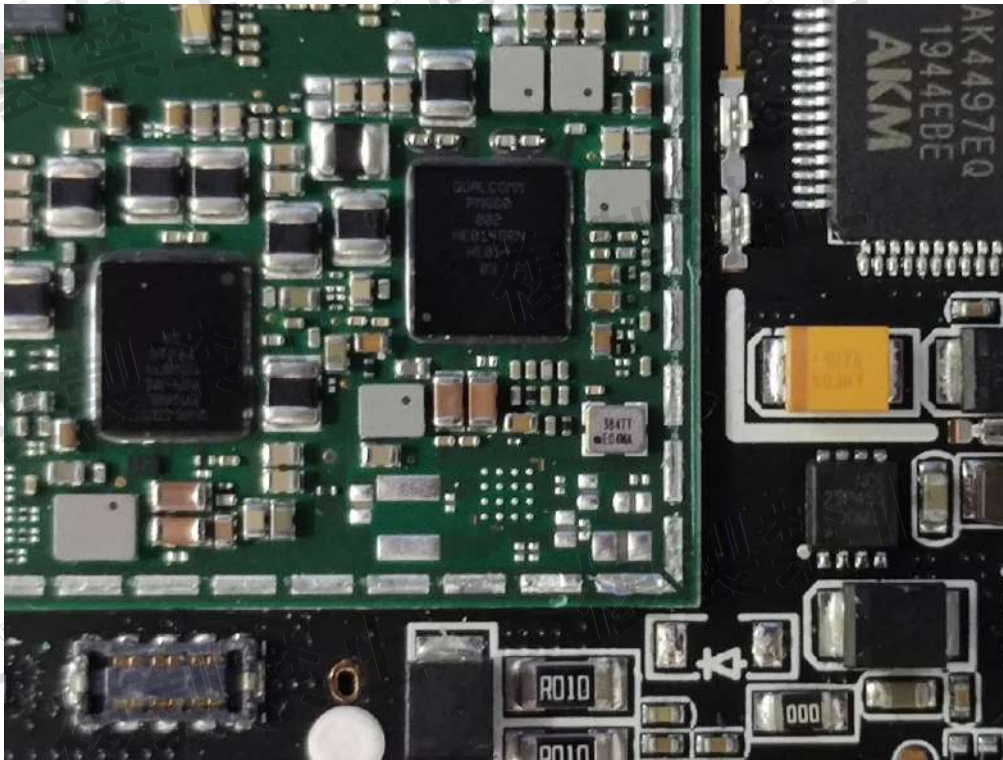


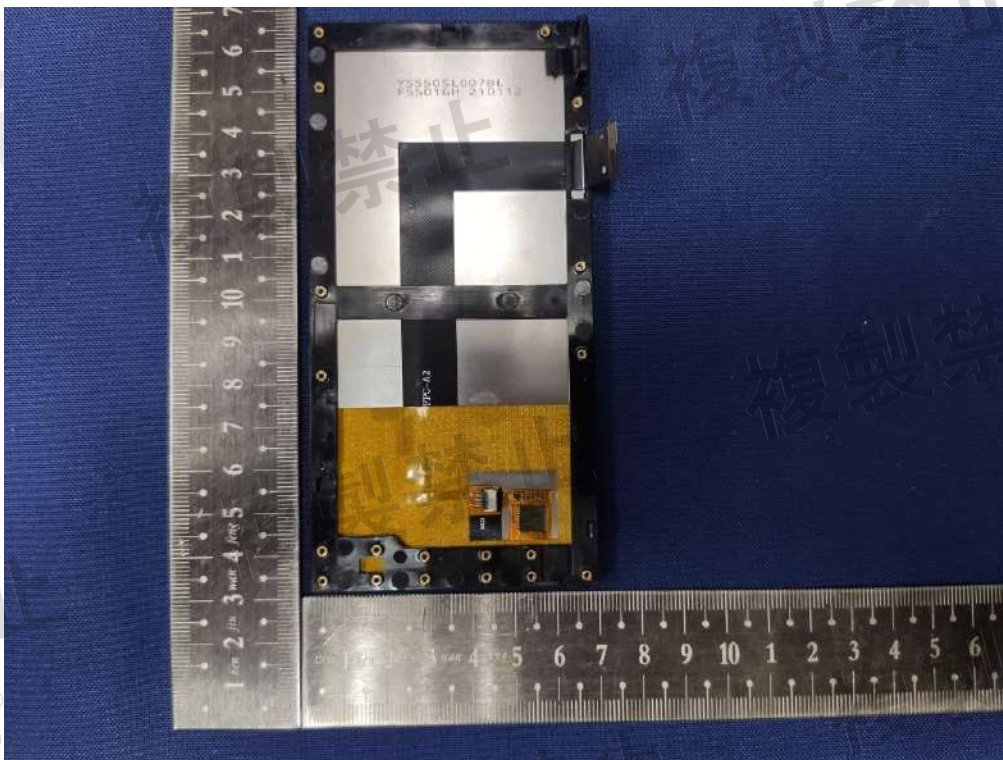
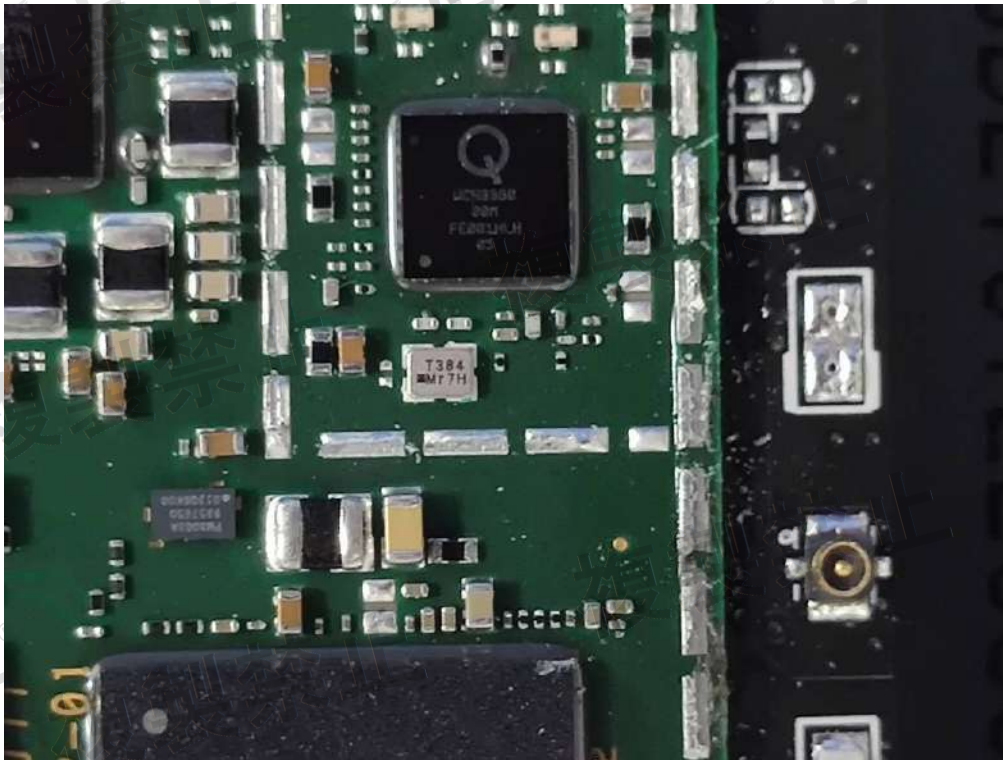


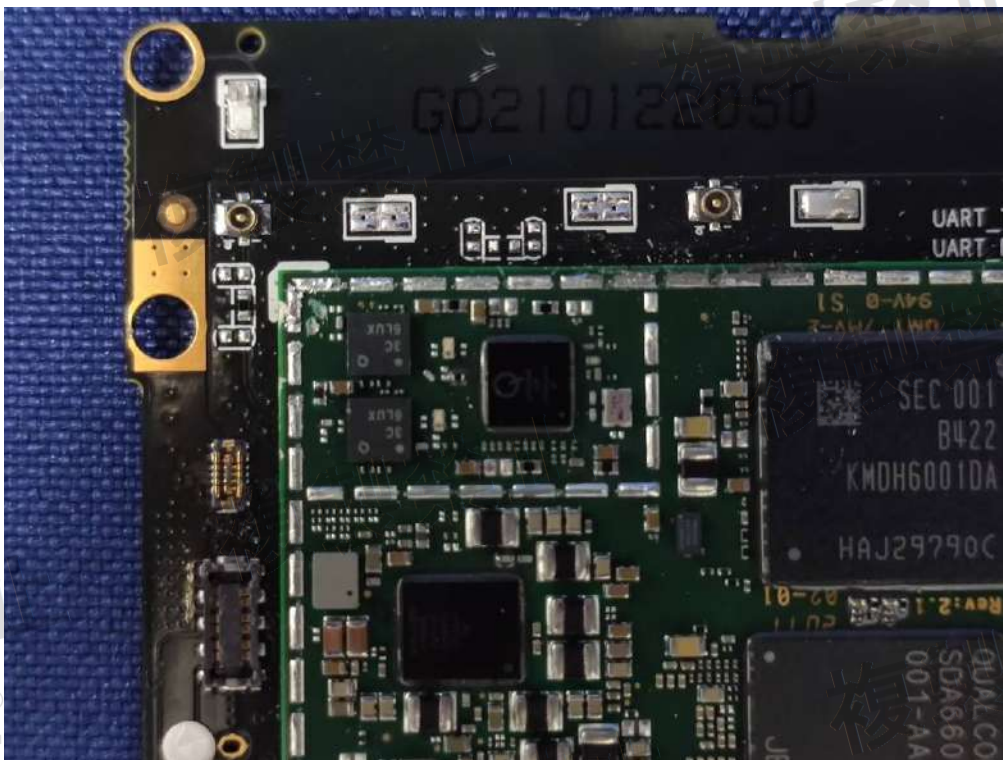
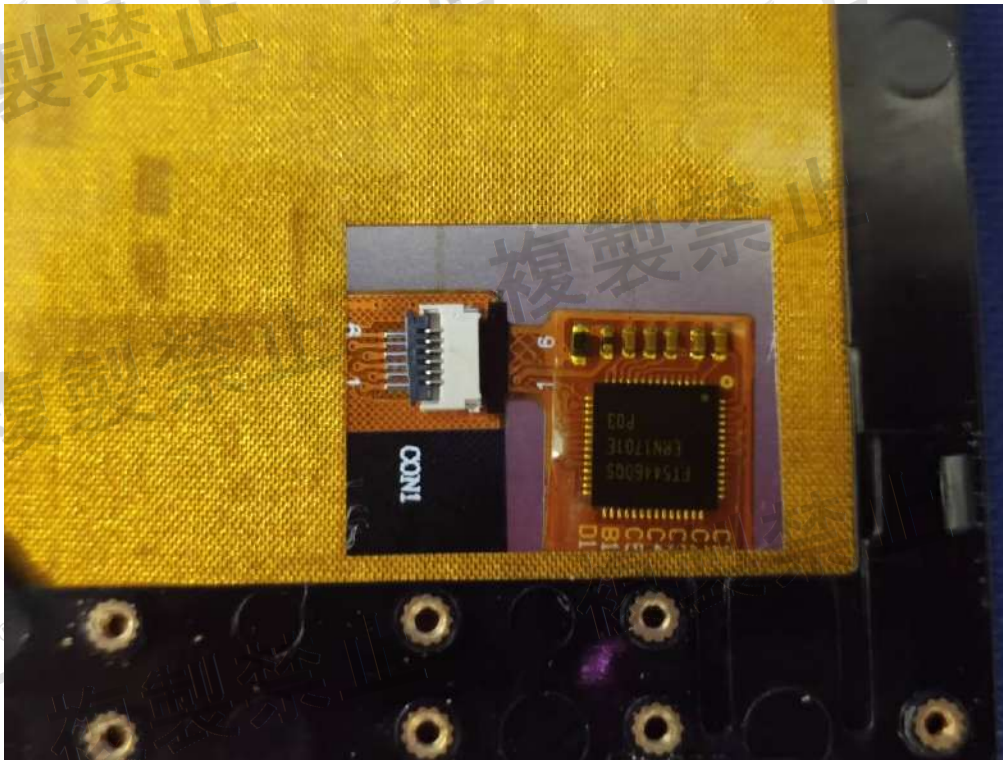


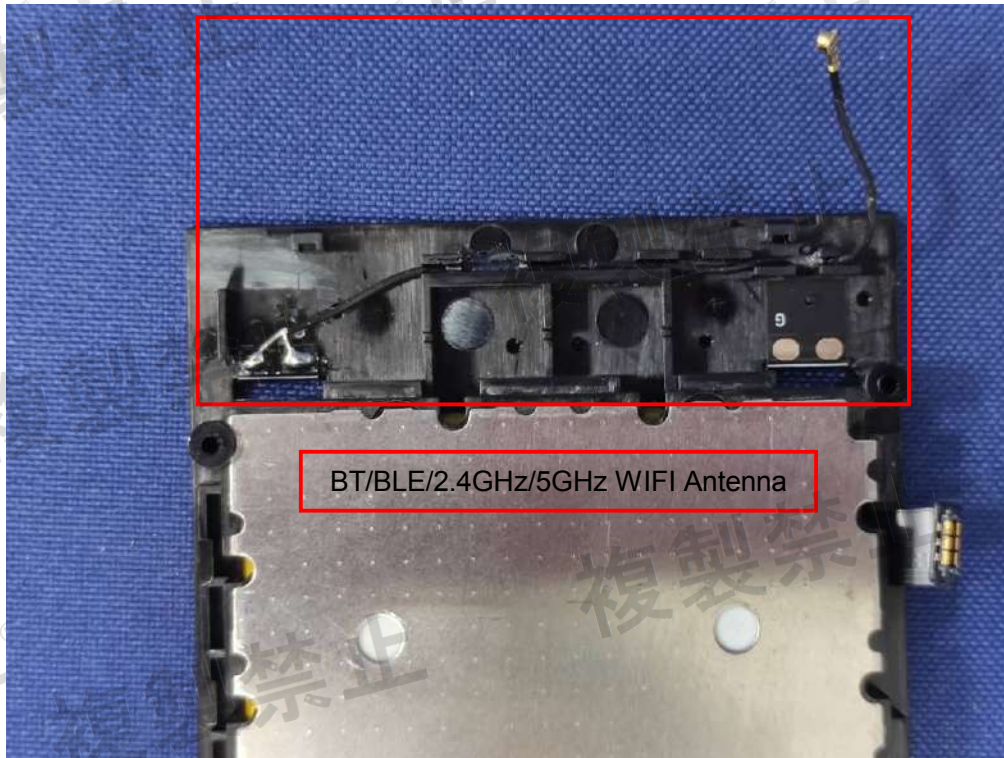
















END OF REPORT