



TEST REPORT

Report No.	:	TBR-C-202604-0404-17
Applicant	:	HONG KONG FED FITNESS LIMITED
Equipment Under Test (EUT)		
EUT Name	:	Body Composition Scale
Model No.	:	BS1
Series Model No.	:	NA
Brand Name	:	FED Fitness
Receipt Date	:	2026-05-12
Test Date	:	2026-05-12 to 2026-06-02
Issue Date	:	2026-06-02
Rule Part(s)	:	MIC Notice No.88 Annex 43
Test Standards	:	ARIB STD-T66 Article 2 paragraph 1 item 19
Conclusions	:	PASS
		In the configuration tested, the EUT complied with the standards specified above.
Tested By	:	Gold. Zhang Gold Zhang
Reviewed By	:	Lucase Yang Lucase Yang
Approved By	:	IVAN SU Ivan Su

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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Revision History

Report No.	Version	Description	Issued Date
TBR-C-202604-0404-17	Rev.01	Initial issue of report	2026-06-02



1. General Information

1.1 Description of Device (EUT)

EUT	:	Body Composition Scale
Model(s) No.	:	BS1
Model Difference	:	NA
Power supply	:	4*AAA-6V
Radio Technology	:	Bluetooth V5.0
Operation frequency	:	2402MHz -2480MHz
Modulation	:	GFSK
Data Rate	:	1Mbps
Antenna Type	:	Monopole antenna, Maximum Gain: -1.73dBi
Declared Output Power	:	Normal Operation (40 Channels): 2.0mW
Applicant	:	HONG KONG FED FITNESS LIMITED
Address	:	RM B165 5/F HANG FUNG INDUSTRIAL BUILDING PHASE 1 2G HOKYUEN STREET HUNG HOM KL,CHINA
Manufacturer	:	Guangdong welland Technology Co., Ltd.
Address	:	2/F, Building B, No. 85 Mingying Science & Technology Park, Shiqi, Zhongshan, Guangdong,China
Software Version	:	1.0.0
Hardware Version	:	V1.0
Remark: (1)The antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab. (2)The above antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.		



1.2 Channle List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	14	2430	28	2458
01	2404	15	2432	29	2460
02	2406	16	2434	30	2462
03	2408	17	2436	31	2464
04	2410	18	2438	32	2466
05	2412	19	2440	33	2468
06	2414	20	2442	34	2470
07	2416	21	2444	35	2472
08	2418	22	2446	36	2474
09	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454		
13	2428	27	2456		



2. Description of Test

2.1 Summary of Test

CLAUSE (ARIB STD-T66)	TEST PARAMETER	RESULTS
Transmitter Parameters		
3.2 (2)	Antenna Power	PASS
3.2 (3)	Tolerances for Antenna Power	PASS
3.2 (4)	Frequency Tolerance	PASS
3.2 (5)	Transmission Rate	N/A
3.2 (7)	Occupied Frequency Bandwidth	PASS
3.2 (8)	Spread Bandwidth	PASS
3.2 (9)	Process Gain	PASS
3.2 (10)	Number of Carriers	N/A
3.2 (11)	Dwell Time	N/A
3.2 (6)	Spurious Emissions	PASS
/	Interference prevention function	PASS
/	Carrier Sensing function	N/A
Receiver Parameters		
3.3 (1)	Secondary Radiated Emissions	PASS
Note: N/A is an abbreviation for Not Applicable.		



2.2 Assistant Equipment Used for Test

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	Trade Name
Notebook	161301-FC	18407/00001136	Xiaomi

2.3 Block Diagram of Test Setup



Test PC run test software provided by client to control EUT work in test mode as described in clause 2.4

2.4 Test Mode Description

The test software (**RFTester**) was used to control EUT work in Continuous TX mode, and select test channel, wireless mode:

Tested Mode, Channel and Data Rate Information		
Mode	Channel	Frequency (MHz)
Tx Mode	CH00	2402
	CH19	2440
	CH39	2480
Rx Mode	CH00	2402
	CH19	2440
	CH39	2480

Test Voltage Information		
Power supply voltage 6V DC (Normal)	Power supply voltage 6.6V DC (+10%)	Power supply voltage 5.4V DC (-10%)
RF module voltage DC 3.3V	RF module voltage DC 3.3V	RF module voltage DC 3.3V
When EUT be operated at 10% from the normal supply voltage, the supply voltage of RF part was varied within 1%. All test cased were done under the normal supply voltage. Note: For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.		

2.5 Test Conditions

Temperature range	23.6°C
Humidity range	51.3%
Pressure range	101.8kPa



2.6 Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Bandwidth	0.2KHz	/
Antenna Power	0.33dB	/
Frequency Tolerance	2.8×10^{-4} MHz	/
Conducted spurious emission	0.13dB	/

2.7 Test Lab Information

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1/F., Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.FCC Accredited Test Site Number: 854351. Designation Number: CN1223.

IC Registration No.: (11950A)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A. CAB identifier: CN0056.

2.8 Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Rohde&Schwarz	FSV40-N	102197	Jun. 16, 2025	Jun. 15, 2026
MXA Signal Analyzer	KEYSIGHT	N9020B	MY60110172	Aug. 27, 2025	Aug. 26, 2026
MXA Signal Analyzer	Agilent	N9020A	MY47380425	Aug. 27, 2025	Aug. 26, 2026
RF Control Unit	Tonsced	JS0806-2	21F8060439	Aug. 27, 2025	Aug. 26, 2026
Digital Oscilloscope	Tektronix	TDS3014B	C011238	Jun. 16, 2025	Jun. 15, 2026
DC power supply	WTKS POWER	WSD-6020	W210916060 20P01	Aug. 27, 2025	Aug. 26, 2026
Calibration agencies:			Guangzhou LiSai Metrology & Test Co., Ltd. CCIC (Shenzhen) Metrology & Testing Service Co.,Ltd		
Note: Calibration by the calibration agencies listed in the table correspond to paragraph 4 (ii) (c) of Article 24-2 in the Radio Law.					
☐ (a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18-1 of the Radio Act.					
☐ (b) Calibration conducted based on the regulations of Article 135 or 144 of the Measurement Act.					
☒ (c) Calibration conducted in foreign countries, which is equivalent to calibration conducted by the NICT or a designated calibration agency under Article 102-18-1 of the Radio Act.					
☐ (d) Calibration, etc. conducted by using measuring instruments and other facilities listed at the bottom of appended table 3 of the Radio Act, which is to have been calibrated as described in (a) through (c) above.					



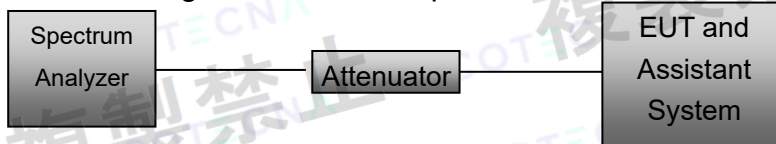
3. Transmitter Test

3.1 Frequency Error

3.1.1 Test Limit

+/- 50×10^{-6} or less (50ppm)

3.1.2 Block Diagram of Test Setup



3.1.3 Test Procedure

- (1) Configure EUT and assistant system
- (2) Set EUT work in carrier Tx mode as described in clause 2.4
- (3) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:
 - Centre Frequency: The centre frequency of the channel under test.
 - Resolution BW: 10 KHz.
 - Video BW: 10 KHz.
 - Span: 1MHz.
 - Detector: Peak.
 - Trace Mode: Max Hold.
- (4) When the trace is complete, find the peak value of the power envelope and record the frequency.

3.1.4 Deviation From Test Standard

No deviation

3.1.5 Test Result

Please refer to the Appendix A.

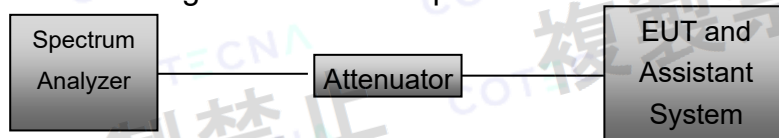


3.2 Antenna Power

3.2.1 Test Limit

Limit	10mW
Tolerance	+20%

3.2.2 Block Diagram of Test Setup



3.2.3 Test Procedure

Connect the UUT to the spectrum analyzer and use the following settings:

Centre Frequency: The centre frequency of the channel under test.

RBW: 1 MHz/VBW: 1 MHz/ Span: Wide enough to cover the complete power envelope of the signal of the EUT. / Detector: Peak. / Trace Mode: Max Hold.

3.2.4 Deviation From Test Standard

No deviation

3.2.5 Test Result

Please refer to the Appendix B.

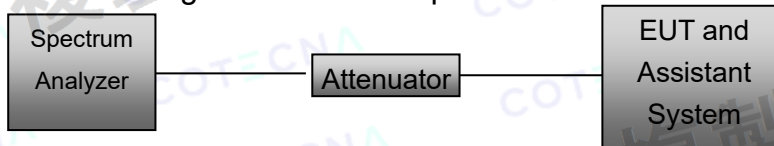


3.3 Occupied Bandwidth

3.3.1 Test Limit

Permissible value for occupied bandwidth using the FH system, a hybrid system combining DS and FH systems, or a hybrid system combining FH and OFDM systems shall be 83.5 MHz or less, while necessary bandwidth (minimum occupied bandwidth sufficient to ensure information transmission of required quality at a required transmission rate for the system used under specified conditions for a given emission type) using a system other than any of the above shall be 26 MHz or less.

3.3.2 Block Diagram of Test Setup



3.3.3 Test Procedure

Setting of SA is following as: RBW:300 kHz / VBW: 300 kHz / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold

EUT have transmitted the maximum modulation signal and fixed channelize (For DSSS or OFDM Device) or continuous maximum power of hopping mode (For FHSS Device). SA set to 99% of occupied bandwidth to measure occupied bandwidth. The limit is less than 26 MHz (For DSSS or OFDM Device) or 83.5 MHz (For FHSS Device).

3.3.4 Deviation From Test Standard

No deviation

3.3.5 Test Result

Please refer to the Appendix C.

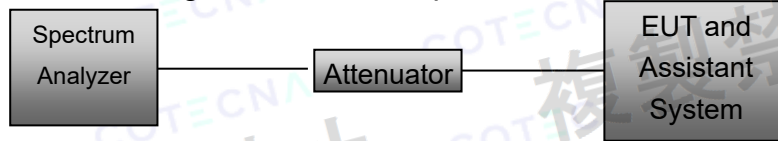


3.4 Spread Bandwidth

3.4.1 Test Limit

≥ 500 kHz

3.4.2 Block Diagram of Test Setup



3.4.3 Test Procedure

Setting of SA is following as: RBW:300 kHz / VBW: 300 kHz / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold

EUT have transmitted the maximum modulation signal and fixed channelize (For DSSS or OFDM Device) or continuous maximum power of hopping mode (For FHSS Device). SA set to 90% of occupied bandwidth to measure Spread Spectrum Bandwidth and must greater than 500 kHz.

3.4.4 Deviation From Test Standard

No deviation

3.4.5 Test Result

Please refer to the Appendix D.



3.5 Spurious Emission of TX

3.5.1 Test Limit

Permissible mean power of spurious emission of each frequency supplied to a feeder, that is, mean power of spurious emission in the 1 MHz bandwidth at frequency f other than frequency band used shall be as follows:

FREQUENCIES (MHz)	LIMIT
30.0MHz to 1000MHz	$\leq 2.5\mu\text{W}/\text{MHz}$
1000MHz to 2387MHz	$\leq 2.5\mu\text{W}/\text{MHz}$
2387.0MHz to 2400.0MHz	$\leq 25\mu\text{W}/\text{MHz}$
2483.5MHz to 2496.5MHz	$\leq 25\mu\text{W}/\text{MHz}$
2496.5MHz to 13000.0MHz	$\leq 2.5\mu\text{W}/\text{MHz}$

3.5.2 Block Diagram of Test Setup



3.5.3 Test Procedure

- (1) Configure EUT and assistant system
- (2) Set EUT work in test mode as described in clause 2.4
- (3) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:
 - Below 1G: BW: 1MHz. Video BW: 1MHz.
 - Above 1G: BW: 1MHz. Video BW: 1MHz.
 - Detector: Peak. Trace Mode: Max Hold.
- (4) All the emissions from 30MHz to 13.0GHz were measured and record.

3.5.4 Deviation From Test Standard

No deviation

3.5.5 Test Result

Please refer to the Appendix E.

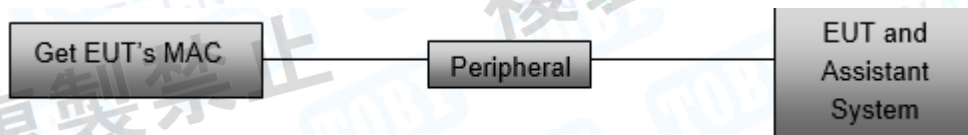


3.6 Interference Prevention Function

3.6.1 Test Limit

Item	Limits
Identification	≥48 bits
MAC IP List	MAC Scan

3.6.2 Block Diagram of Test Setup



3.6.3 Test Procedure

1. In the case that the EUT has the function of automatically transmitting the identification code: a. Transmit the predetermined identification codes from EUT. b. Check the transmitted identification codes with the demodulator.
2. In the case of receiving the identification code: a. Transmit the predetermined identification codes from the counterpart. b. Check if communication is normal. c. Transmit the signals other than predetermined ID codes from the counterpart. d. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

3.6.4 Deviation From Test Standard

No deviation

3.6.5 Test Result

Temperature:	23.7℃	Humidity:	51.3%RH
Mac:	F2:36:42:4B:23:11		
Test result:	CONFORM		
Tested by:	Gold Zhang		



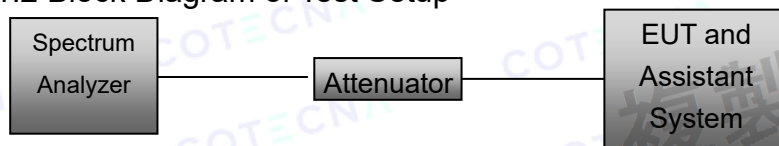
4. Receiver Test

4.1 Secondary Radiated Emissions

4.1.1 Test 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.

4.1.2 Block Diagram of Test Setup



4.1.3 Test Procedure

- (1) Configure EUT and assistant system
- (2) Set EUT work in test mode as described in clause 2.4
- (3) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Below 1G: BW: 100kHz. Video BW: 100kHz.

Above 1G: BW: 1MHz. Video BW: 1MHz.

Detector: Peak. Trace Mode: Max Hold.

- (4) All the emissions from 30MHz to 13.0GHz were measured and record.

4.1.4 Deviation From Test Standard

No deviation

4.1.5 Test Result

Please refer to the Appendix F.



5. Test Setup Photos



6. EUT Photos

Photo 1 Appearance of EUT

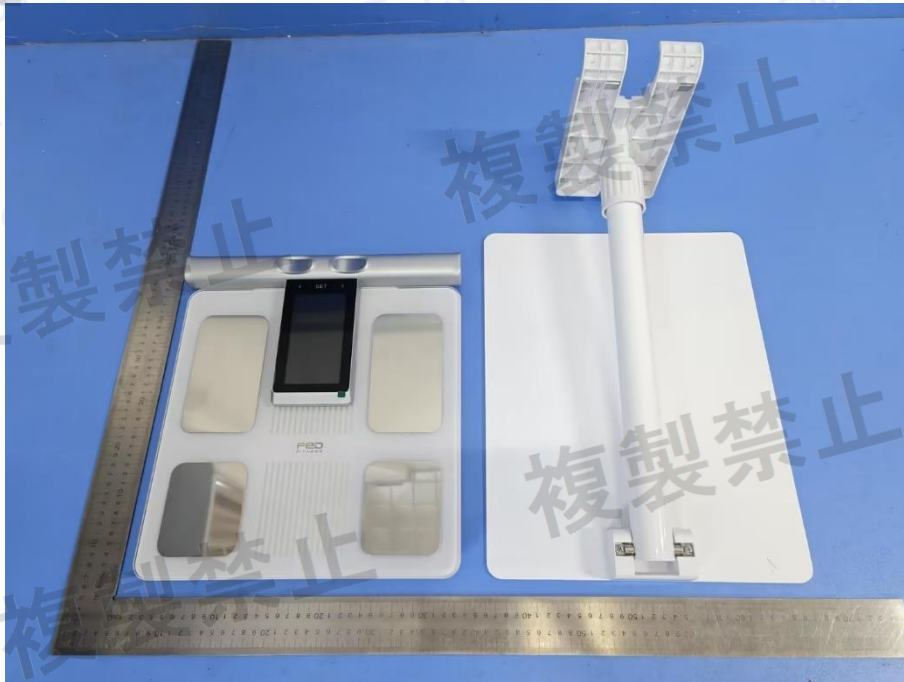


Photo 2 Appearance of EUT

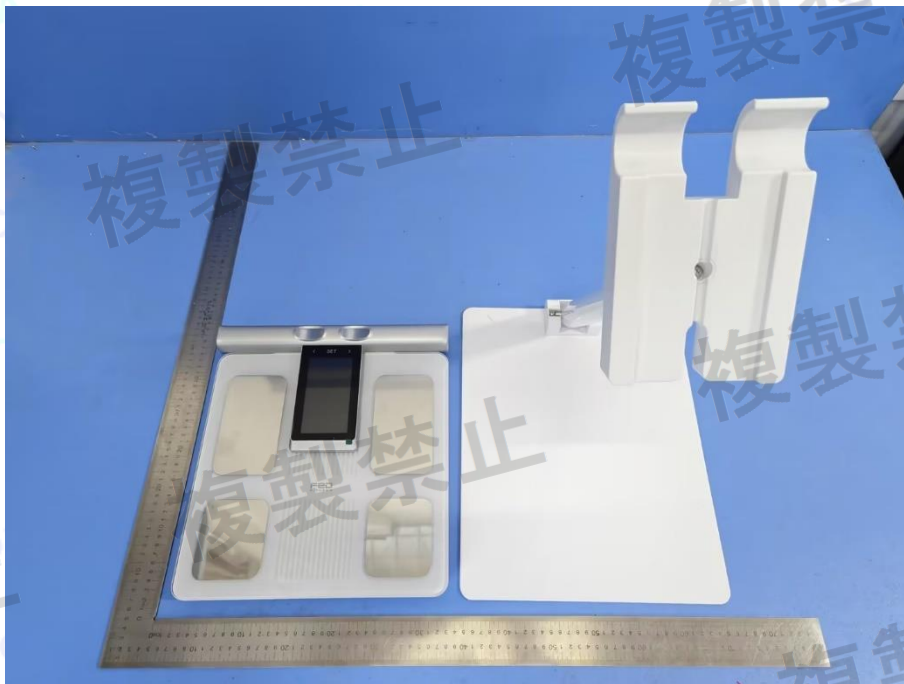


Photo 3 Appearance of EUT

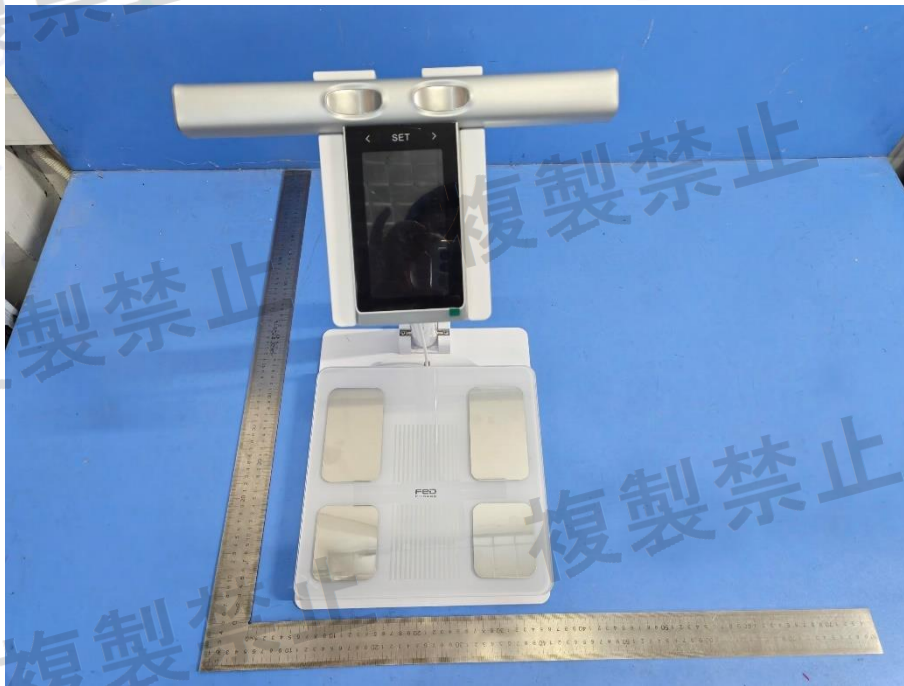


Photo 4 Appearance of EUT

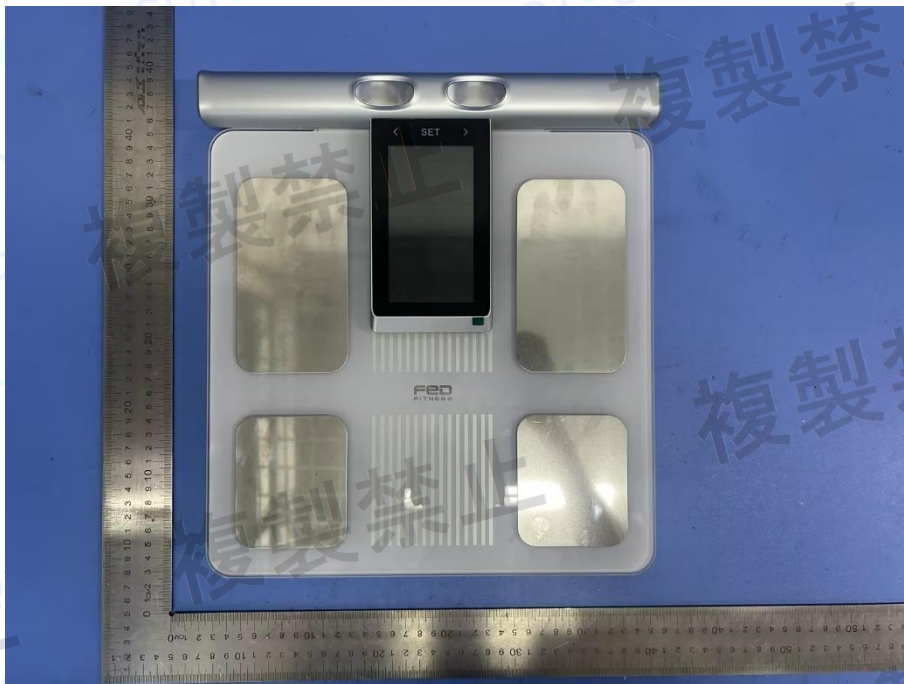


Photo 5 Appearance of EUT

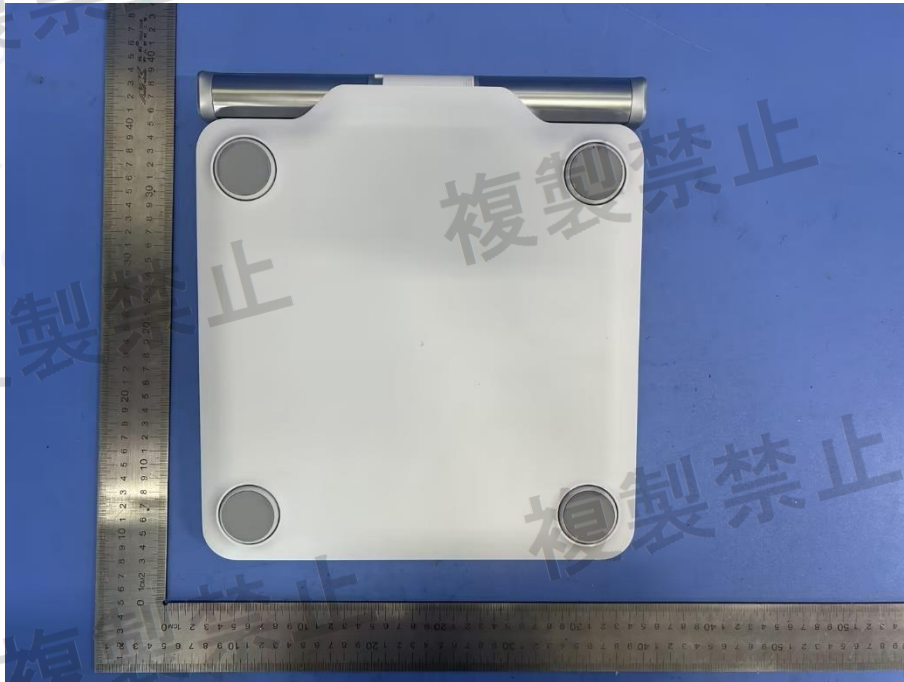


Photo 6 Appearance of EUT

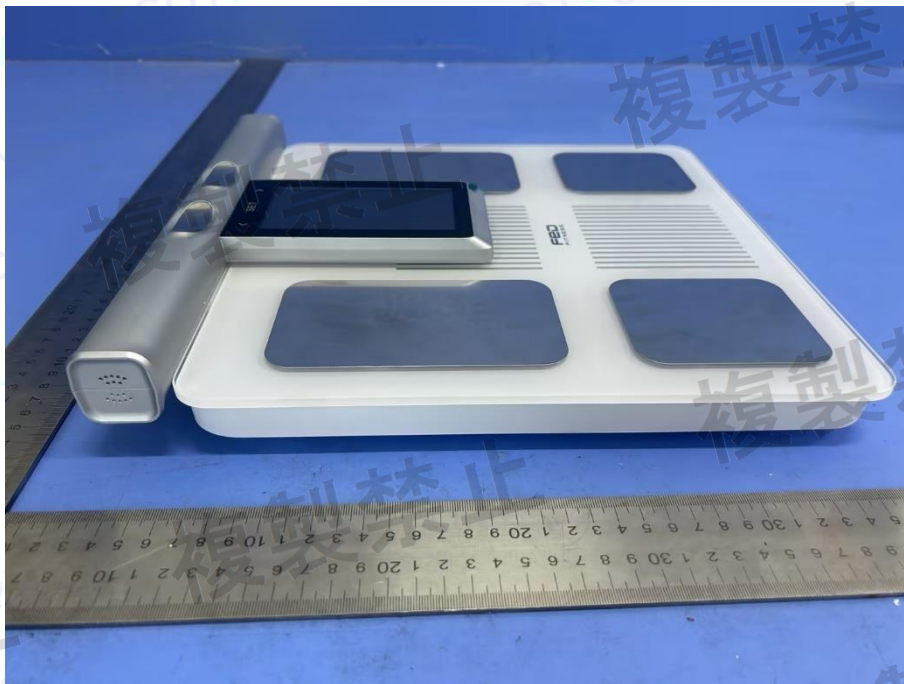


Photo 7 Appearance of EUT

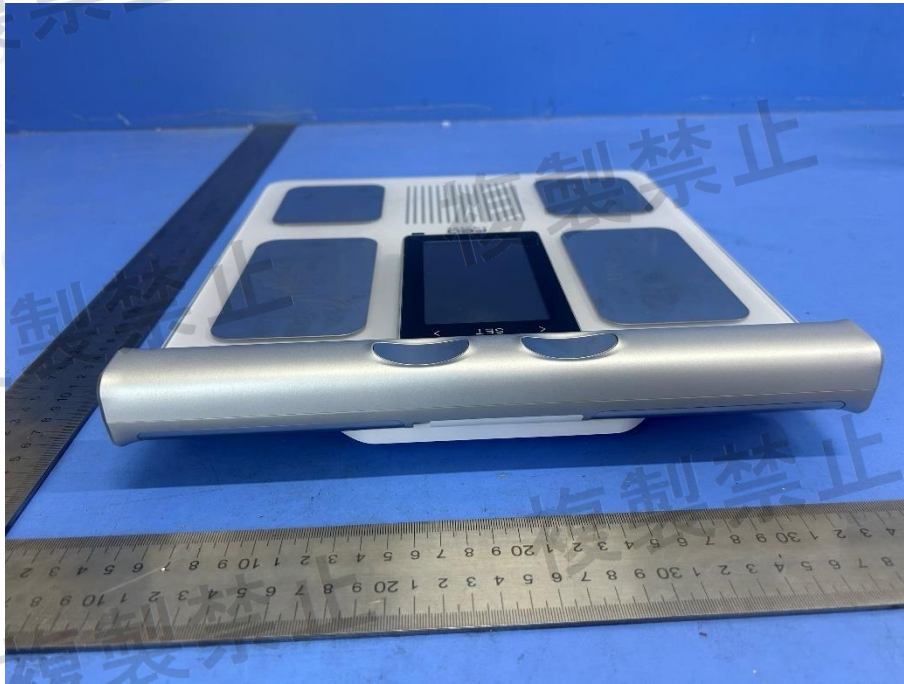


Photo 8 Appearance of EUT

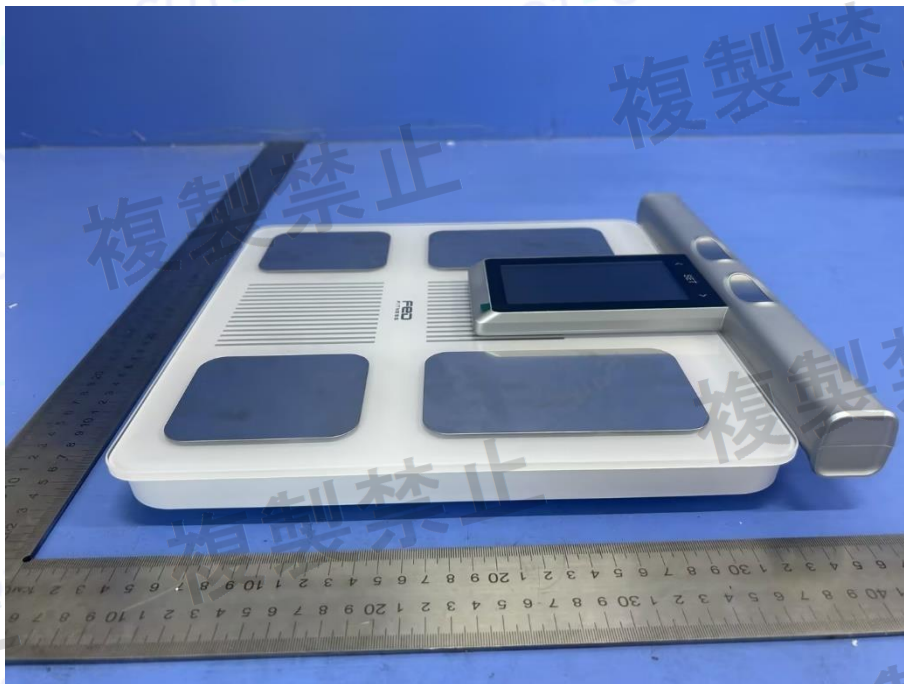


Photo 9 Appearance of EUT

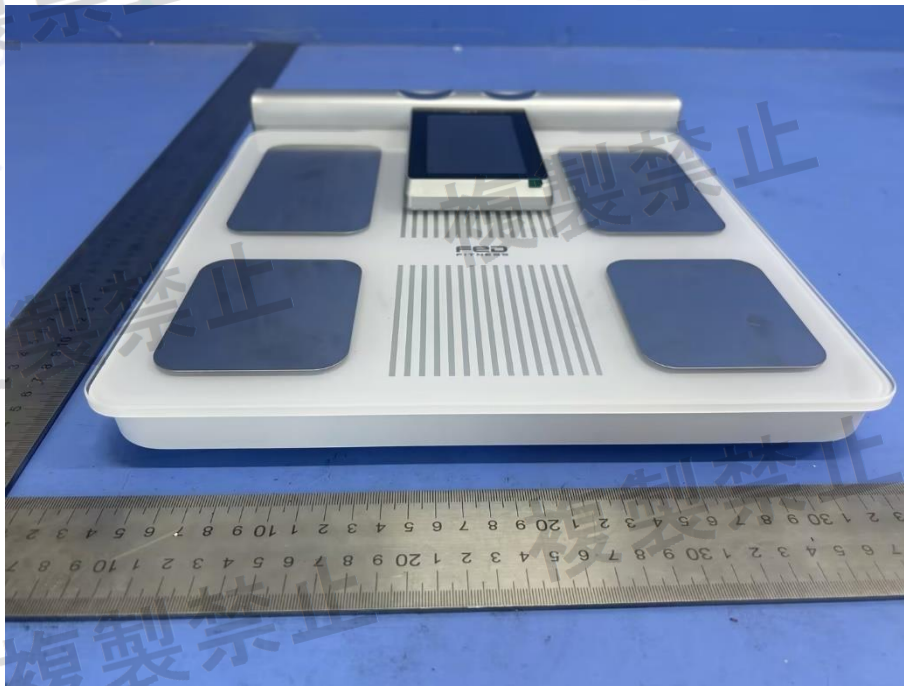


Photo 10 Internal of EUT

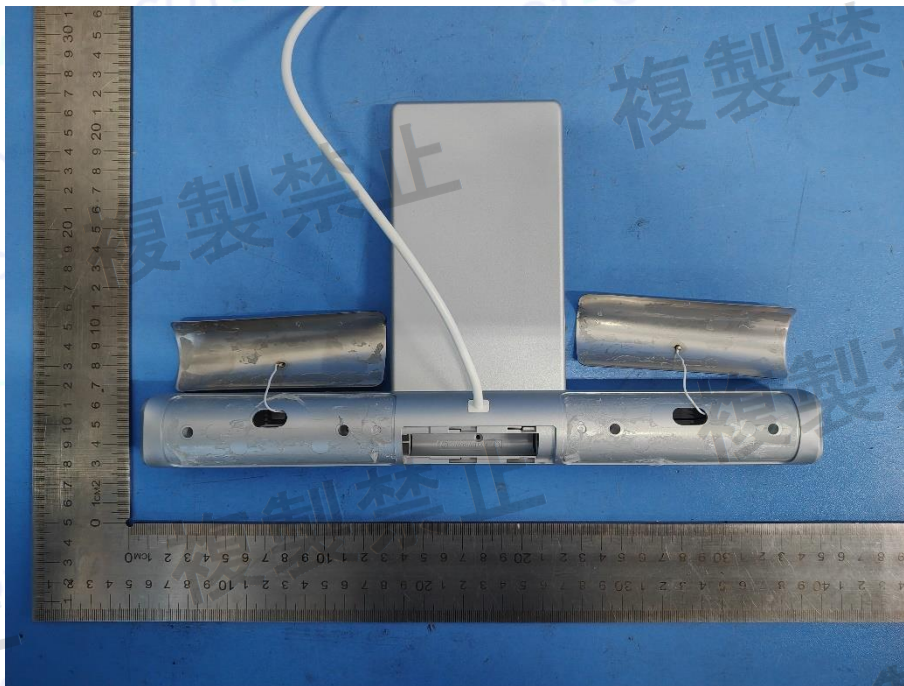


Photo 11 Internal of EUT

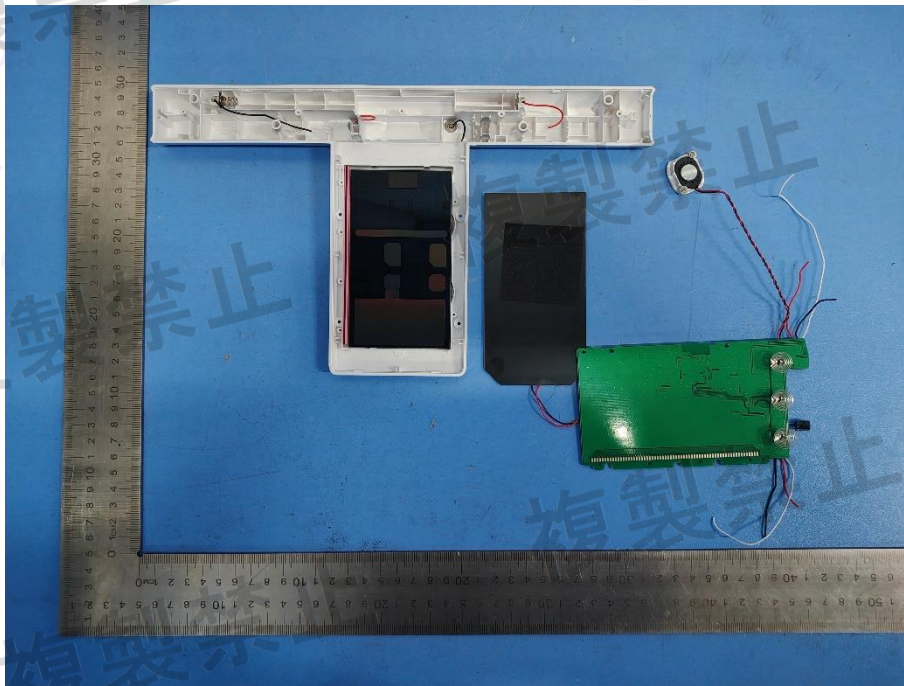


Photo 12 Internal of EUT

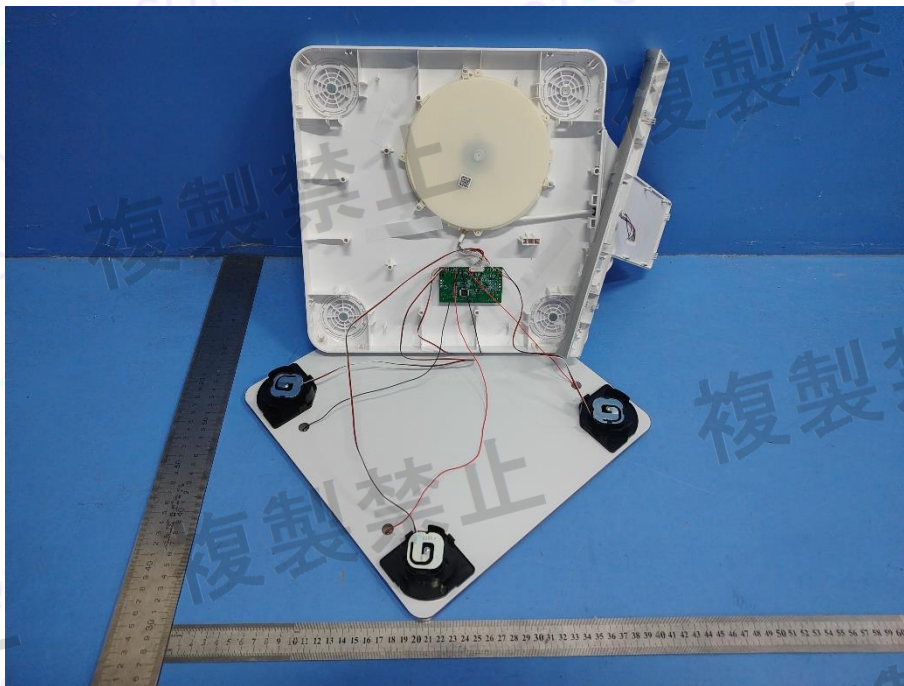


Photo 13 Appearance of PCB

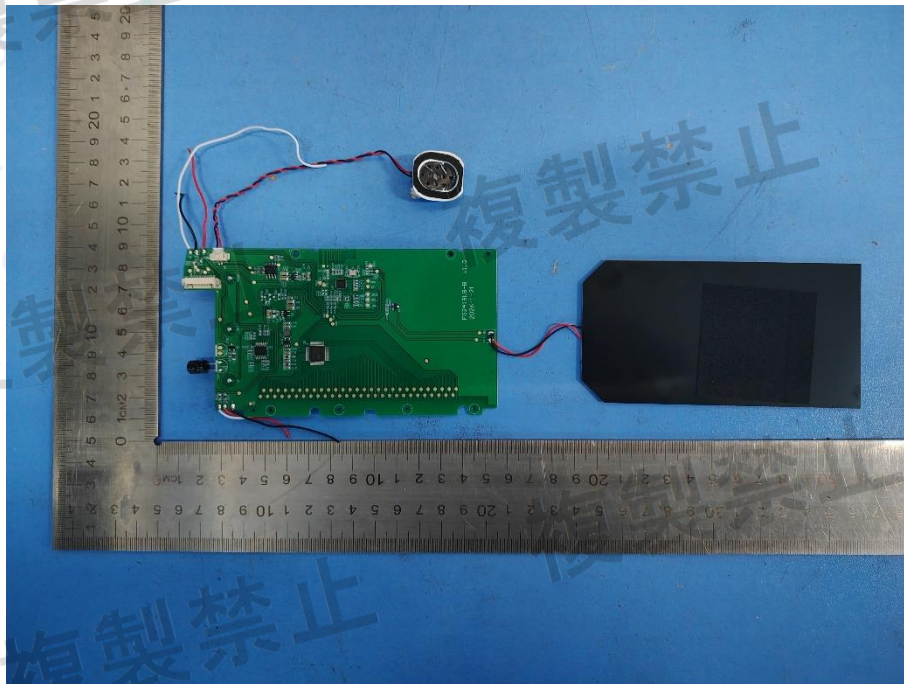


Photo 14 Appearance of PCB

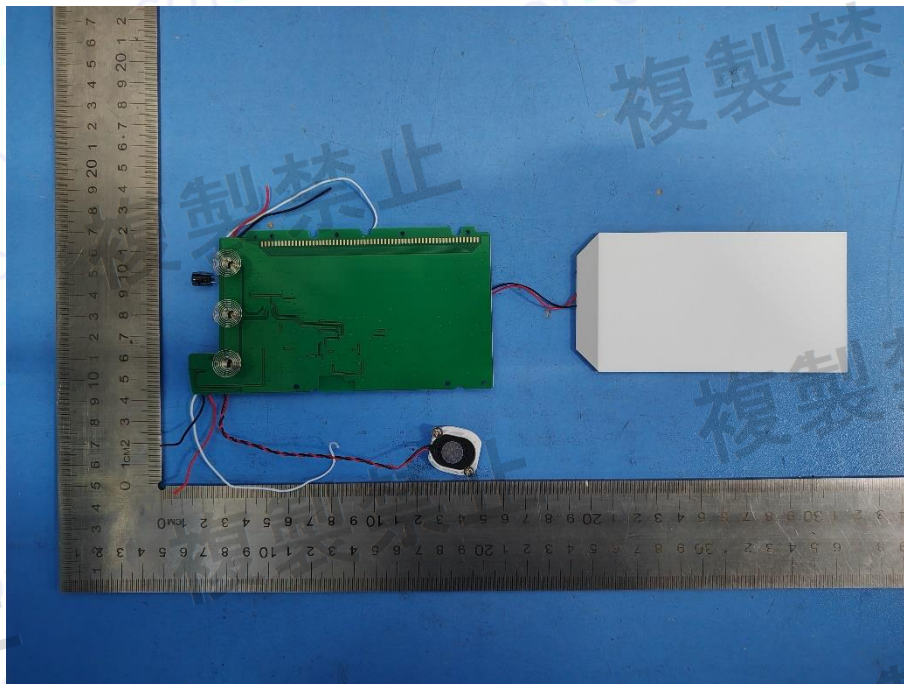


Photo 15 Appearance of PCB

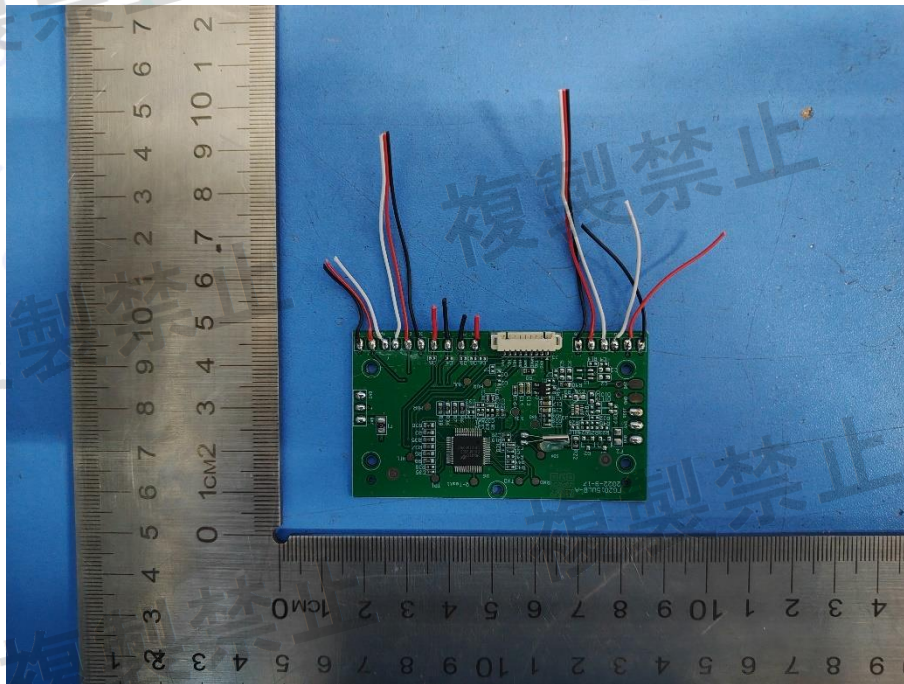


Photo 16 Appearance of PCB

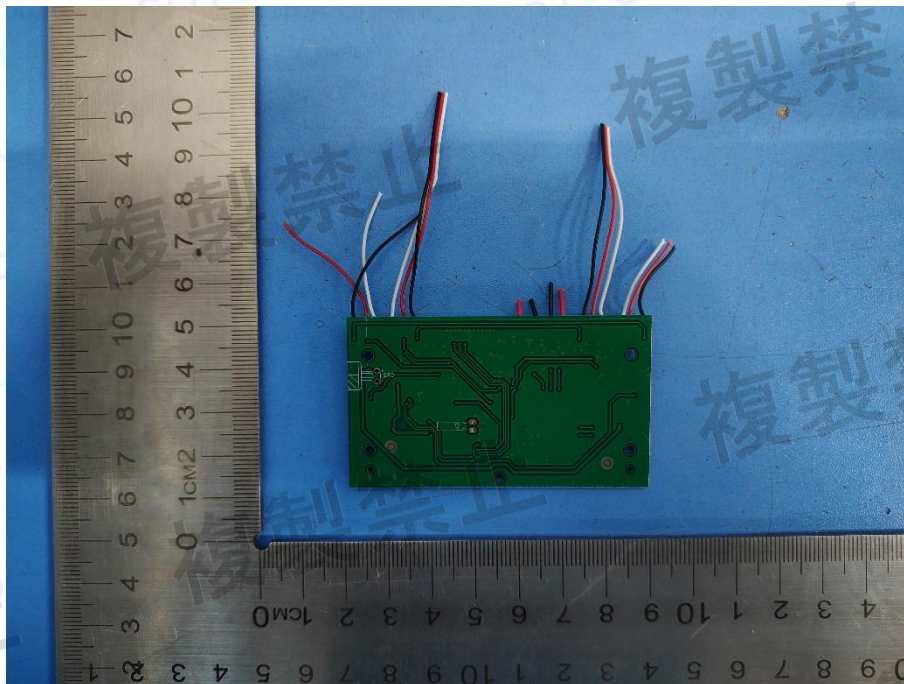
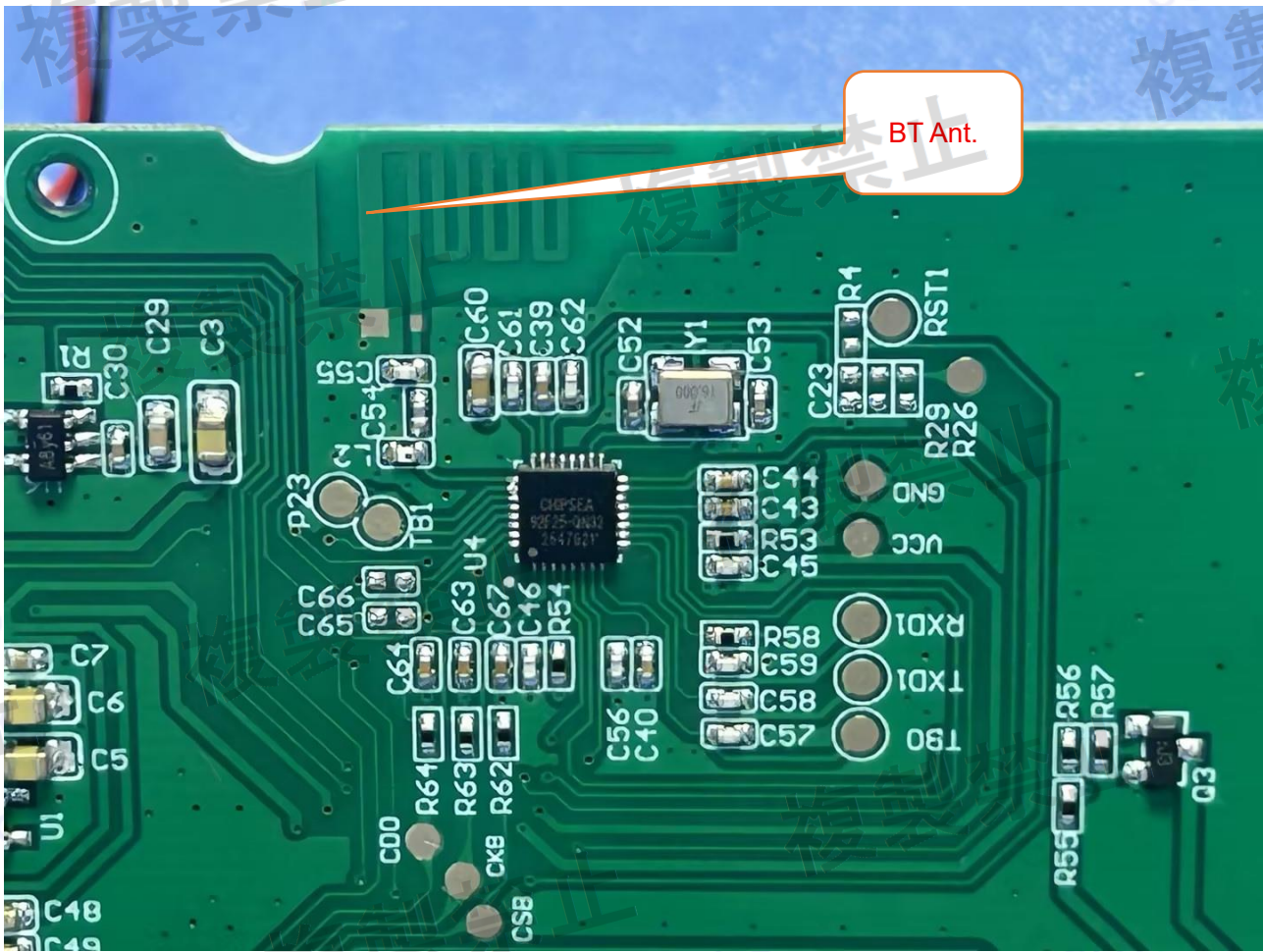


Photo 17 Appearance of PCB



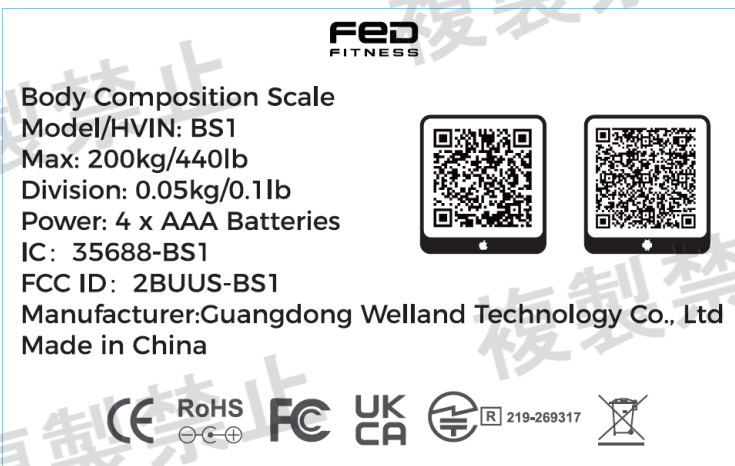
7. Label Information

Label

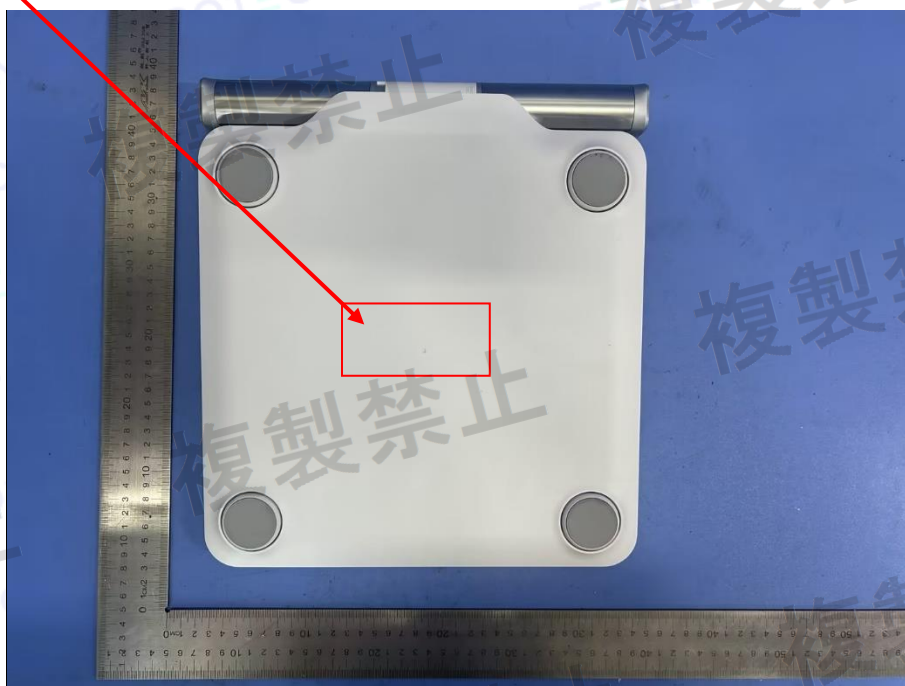
Label remark:

Size: 80×50 mm, coated paper with lamination, self-adhesive, white base

MIC logo diameter: 5.5mm



Label Location



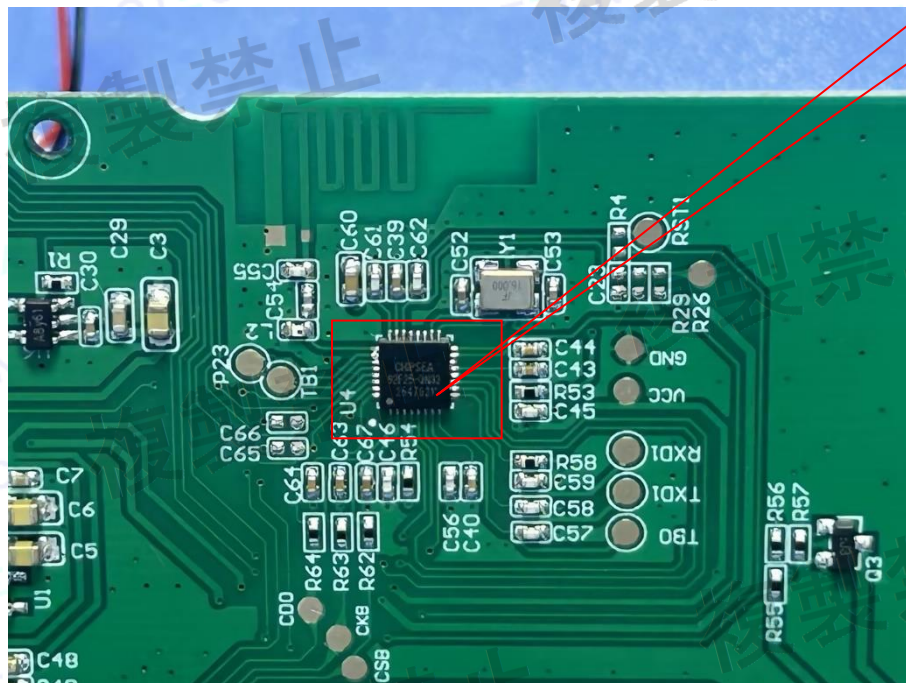
8. Construction Protection Confirmation Method

8.1 Requirement

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

8.2 Confirmation Method

RF module is welded directly to PCB board. So the end user can not to modify or change the RF Parts easily.



RF MODULE



Appendix A: Frequency Error

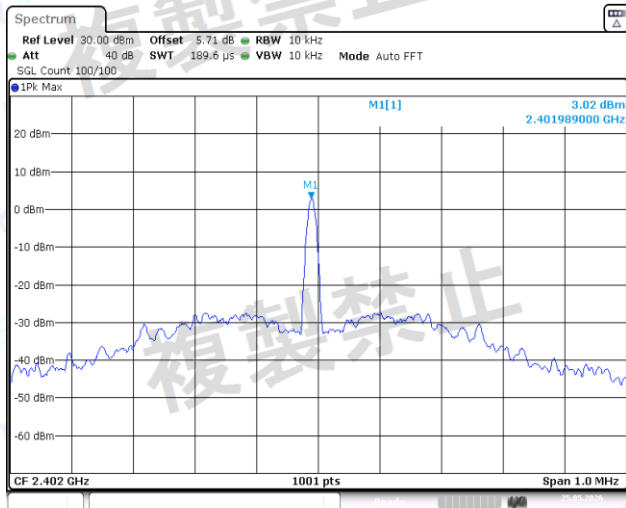
Test Result

Test Condition	Test Mode	Antenna	Freq(MHz)	Center Freq [MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	BLE_1M	Ant1	2402	2401.989	-4.57952	±50	PASS
NTNV	BLE_1M	Ant1	2440	2439.989	-4.50820	±50	PASS
NTNV	BLE_1M	Ant1	2480	2479.989	-4.43548	±50	PASS

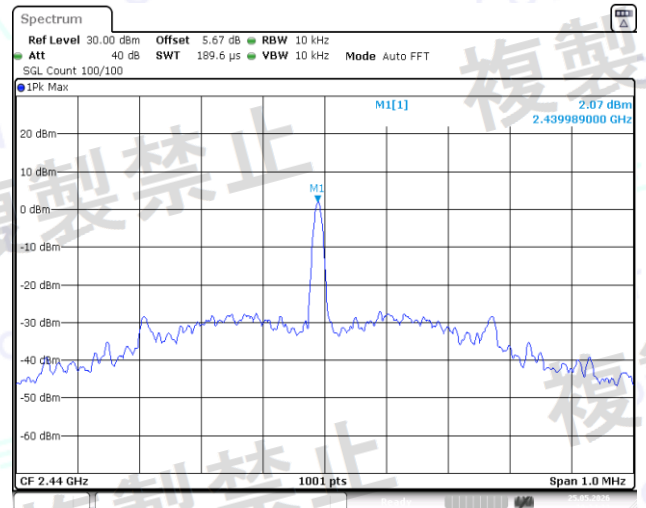
Remark: Only show the test data of worst condition.



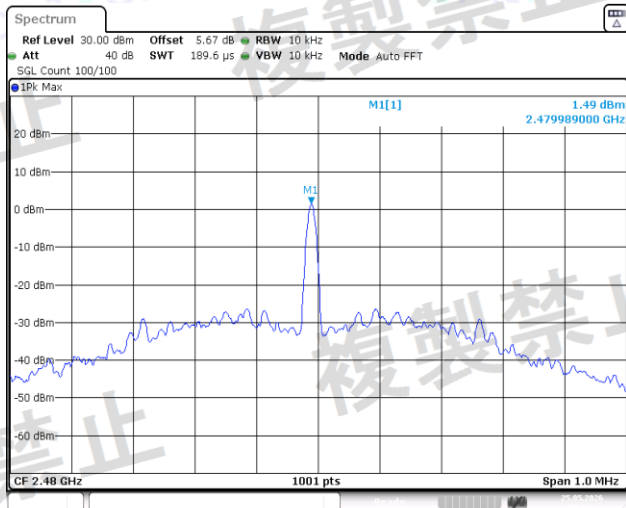
Test Graphs



NTNV-BLE_1M-Ant1-2402-PASS



NTNV-BLE_1M-Ant1-2440-PASS



NTNV-BLE_1M-Ant1-2480-PASS



Appendix B: Antenna Power&Tolerance&EIRP

Test Result

Remark: Only show the test data of worst condition.

Antenna Power							
Test Condition	Test Mode	Antenna	Freq(MHz)	Result(dBm)	Result(mW)	Limit(mW)	Verdict
NTNV	BLE_1M	Ant1	2402	3.32	2.1478	≤10	PASS
NTNV	BLE_1M	Ant1	2440	2.49	1.7742	≤10	PASS
NTNV	BLE_1M	Ant1	2480	1.90	1.5488	≤10	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Freq(MHz)	Power (mW)	RatedPower (mW)	Result (%)	Limit (%)	Verdict
NTNV	BLE_1M	Ant1	2402	2.1478	2	7.39	+20	PASS
NTNV	BLE_1M	Ant1	2440	1.7742	2	-11.29	+20	PASS
NTNV	BLE_1M	Ant1	2480	1.5488	2	-22.56	+20	PASS

E.I.R.P								
Test Condition	Test Mode	Antenna	Freq(MHz)	Result(dBm)	Ant Gian (dBi)	EIRP(dBm)	Limit(dBm)	Verdict
NTNV	BLE_1M	Ant1	2402	3.32	-1.73	1.59	≤12.14	PASS
NTNV	BLE_1M	Ant1	2440	2.49	-1.73	0.76	≤12.14	PASS
NTNV	BLE_1M	Ant1	2480	1.90	-1.73	0.17	≤12.14	PASS



Appendix C: Occupied Bandwidth

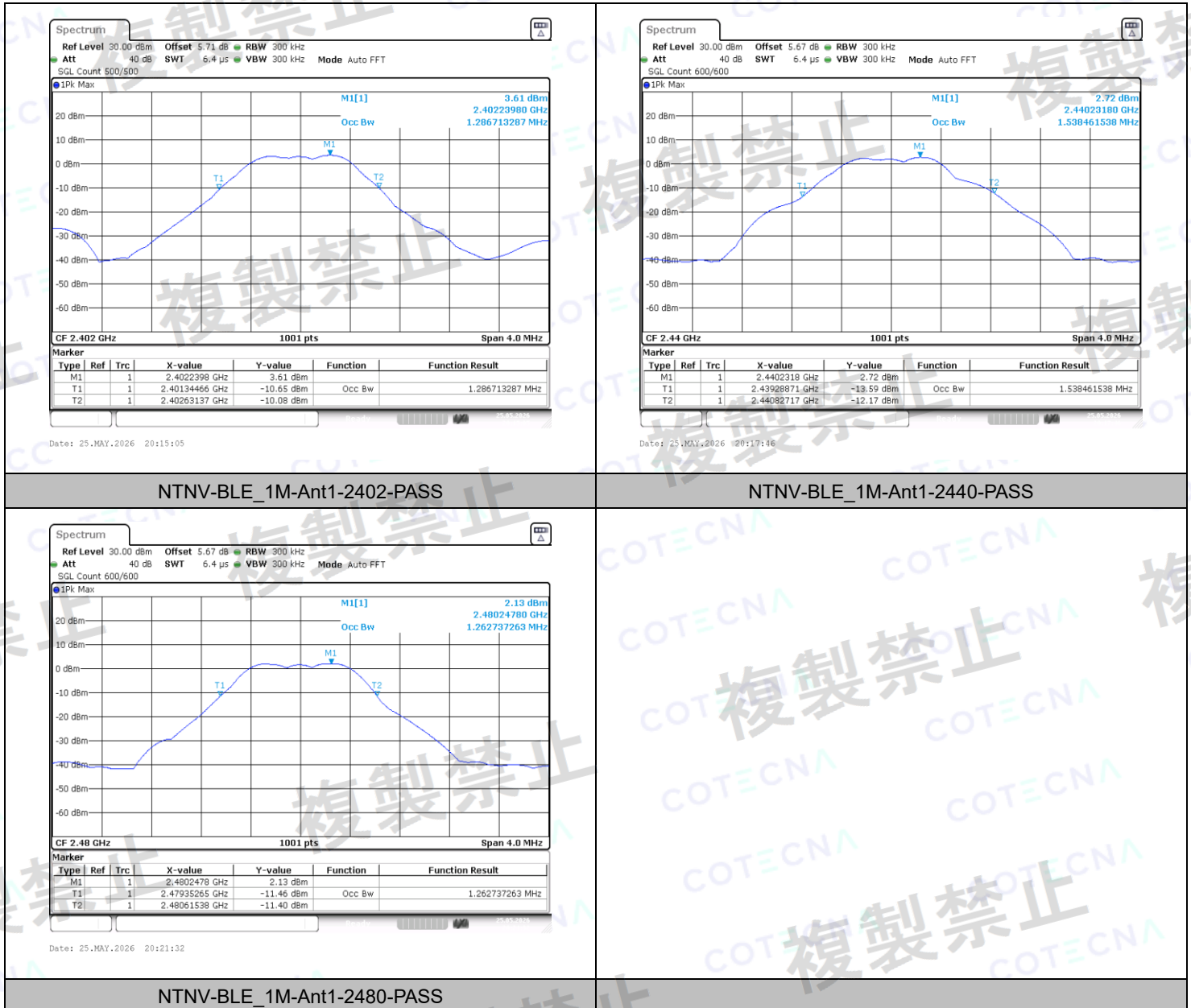
Test Result

Test Condition	Test Mode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	1.287	≤26	PASS
NTNV	BLE_1M	Ant1	2440	1.539	≤26	PASS
NTNV	BLE_1M	Ant1	2480	1.263	≤26	PASS

Remark: Only show the test data of worst condition.



Test Graphs



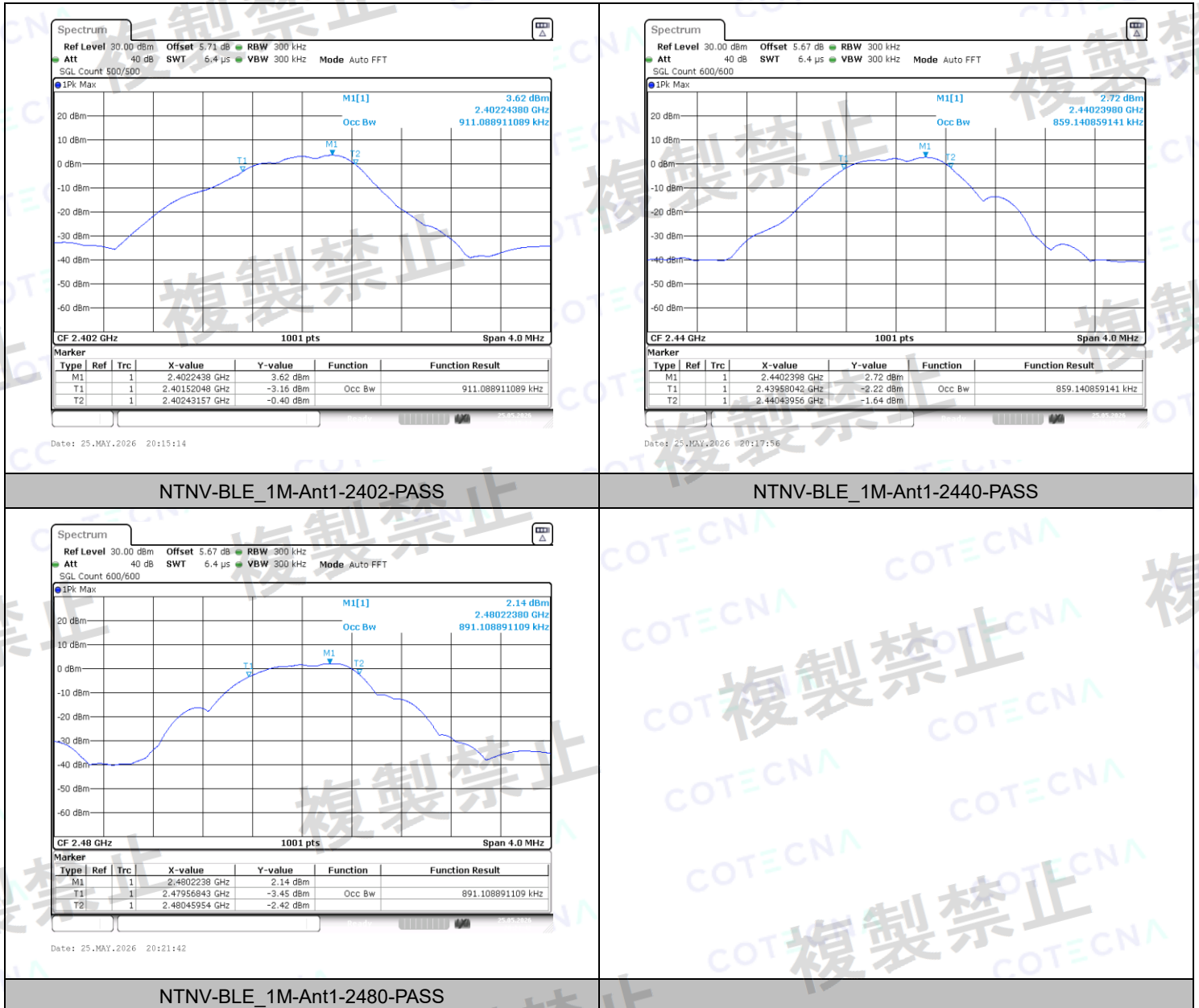
Appendix D: Spread Bandwidth

Test Result

Test Condition	Test Mode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	0.911	≥0.5	PASS
NTNV	BLE_1M	Ant1	2440	0.859	≥0.5	PASS
NTNV	BLE_1M	Ant1	2480	0.891	≥0.5	PASS



Test Graphs



NTNV-BLE_1M-Ant1-2402-PASS

NTNV-BLE_1M-Ant1-2440-PASS

NTNV-BLE_1M-Ant1-2480-PASS



Appendix E: Spurious Emission of TX

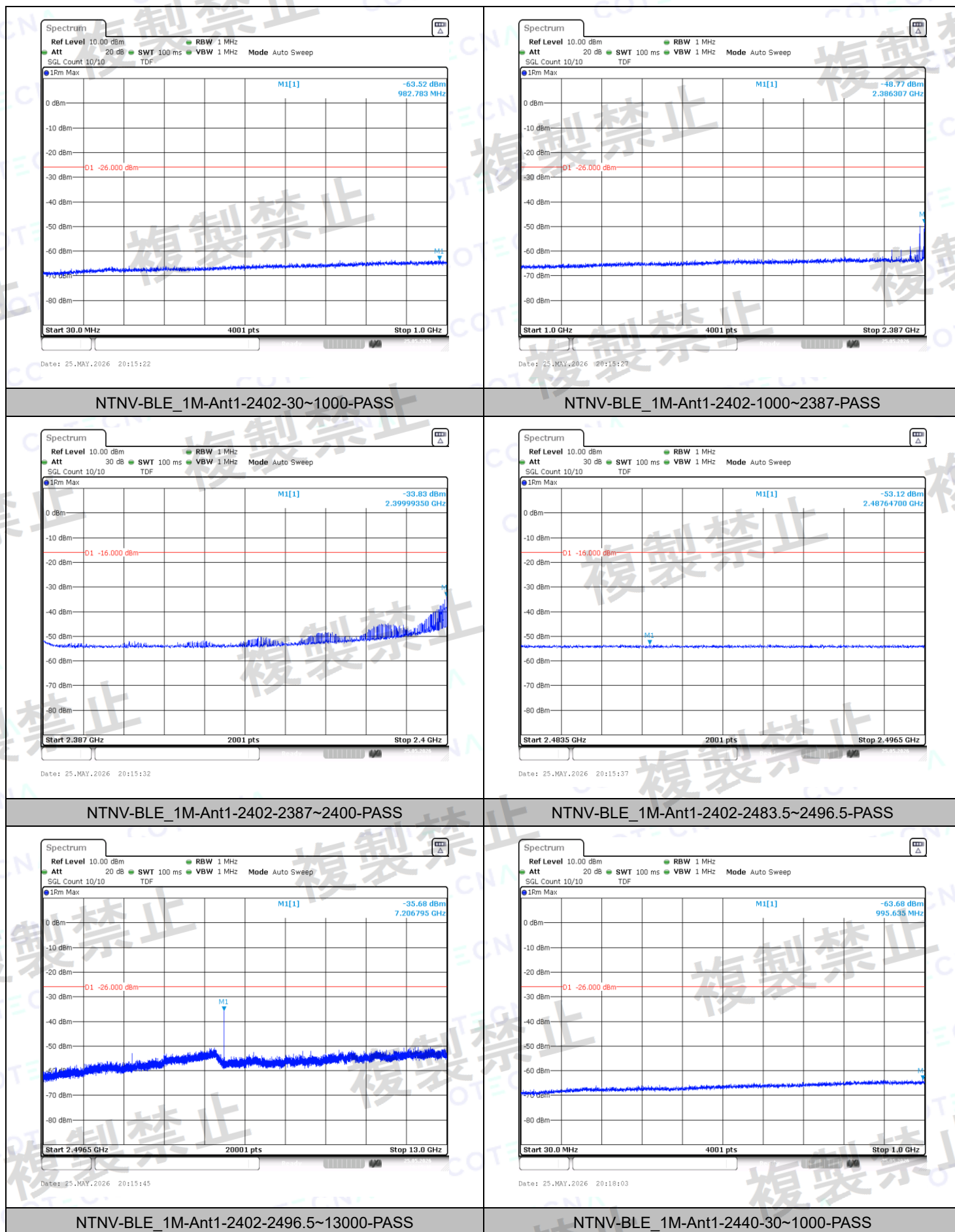
Test Result

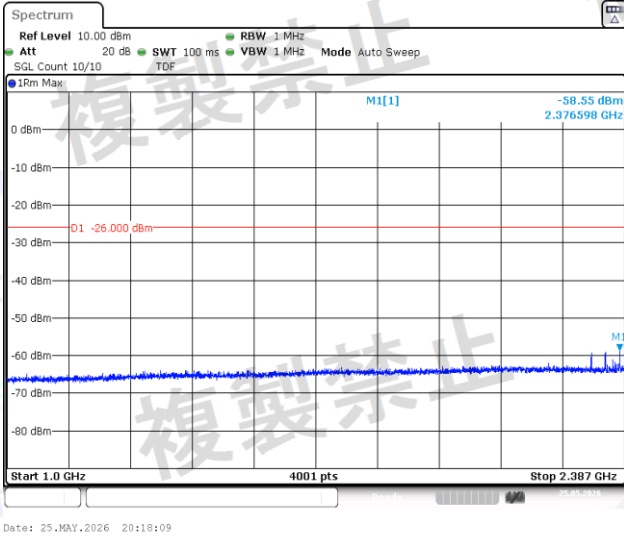
Test Condition	Test Mode	Ant.	Freq (MHz)	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	-63.52	≤-26	0.00044	≤2.5	PASS
NTNV	BLE_1M	Ant1	2402	1000~2387	-48.77	≤-26	0.01327	≤2.5	PASS
NTNV	BLE_1M	Ant1	2402	2387~2400	-33.83	≤-16	0.41400	≤25	PASS
NTNV	BLE_1M	Ant1	2402	2483.5~2496.5	-53.12	≤-16	0.00488	≤25	PASS
NTNV	BLE_1M	Ant1	2402	2496.5~13000	-35.68	≤-26	0.27040	≤2.5	PASS
NTNV	BLE_1M	Ant1	2440	30~1000	-63.68	≤-26	0.00043	≤2.5	PASS
NTNV	BLE_1M	Ant1	2440	1000~2387	-58.55	≤-26	0.00140	≤2.5	PASS
NTNV	BLE_1M	Ant1	2440	2387~2400	-53.09	≤-16	0.00491	≤25	PASS
NTNV	BLE_1M	Ant1	2440	2483.5~2496.5	-53.07	≤-16	0.00493	≤25	PASS
NTNV	BLE_1M	Ant1	2440	2496.5~13000	-36.29	≤-26	0.23496	≤2.5	PASS
NTNV	BLE_1M	Ant1	2480	30~1000	-63.50	≤-26	0.00045	≤2.5	PASS
NTNV	BLE_1M	Ant1	2480	1000~2387	-59.37	≤-26	0.00116	≤2.5	PASS
NTNV	BLE_1M	Ant1	2480	2387~2400	-53.24	≤-16	0.00474	≤25	PASS
NTNV	BLE_1M	Ant1	2480	2483.5~2496.5	-47.76	≤-16	0.01675	≤25	PASS
NTNV	BLE_1M	Ant1	2480	2496.5~13000	-34.48	≤-26	0.35645	≤2.5	PASS

Remark: Only show the test data of worst condition.

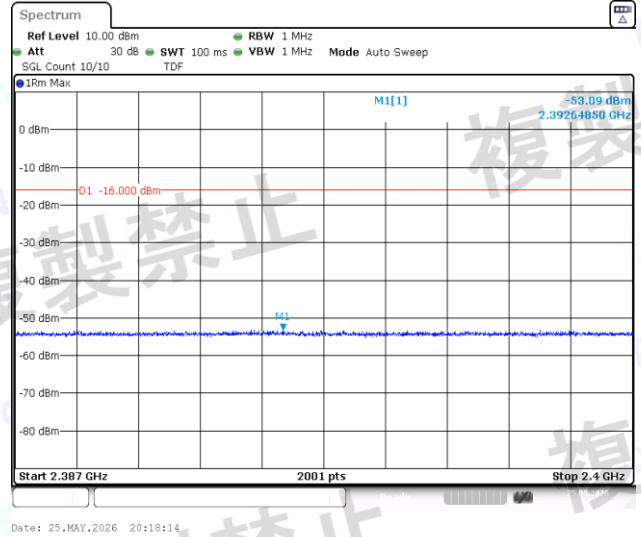


Test Graphs

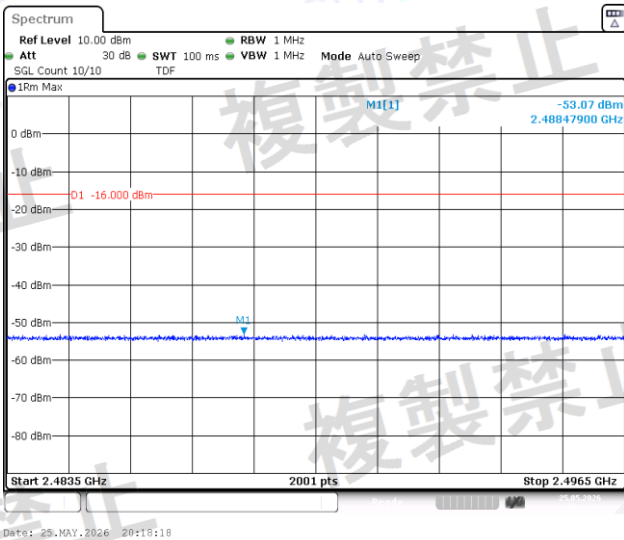




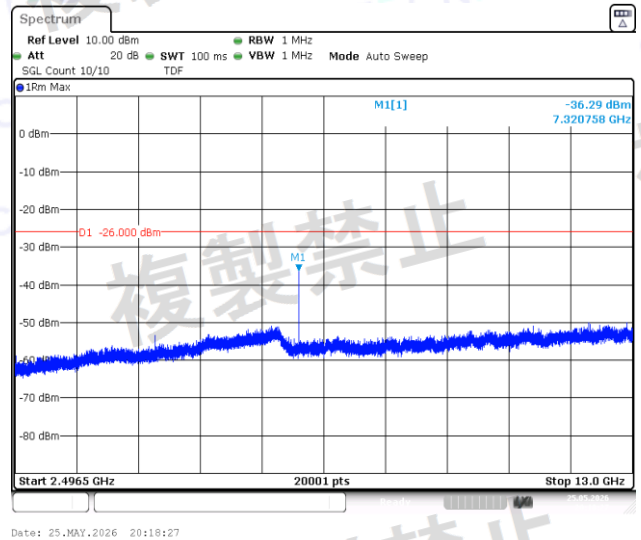
NTNV-BLE_1M-Ant1-2440-1000~2387-PASS



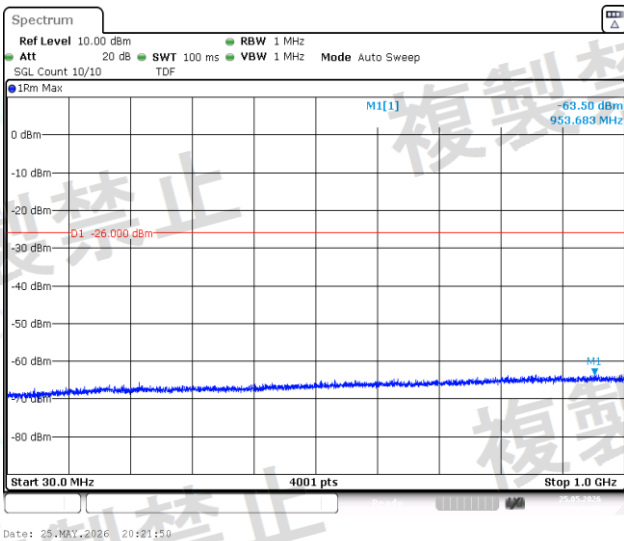
NTNV-BLE_1M-Ant1-2440-2387~2400-PASS



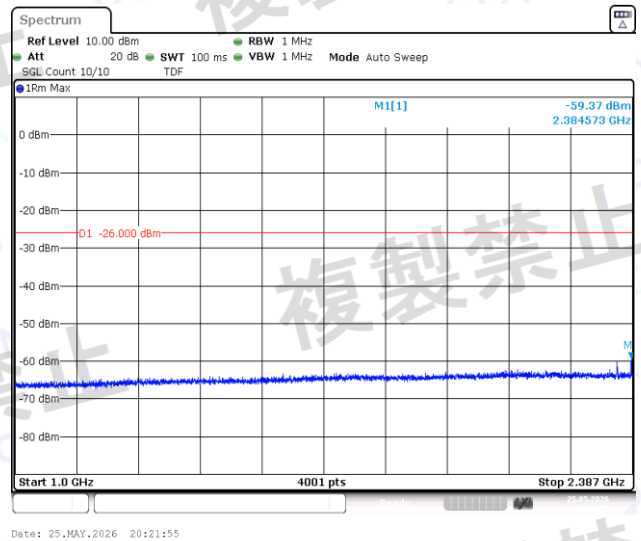
NTNV-BLE_1M-Ant1-2440-2483.5~2496.5-PASS



NTNV-BLE_1M-Ant1-2440-2496.5~13000-PASS

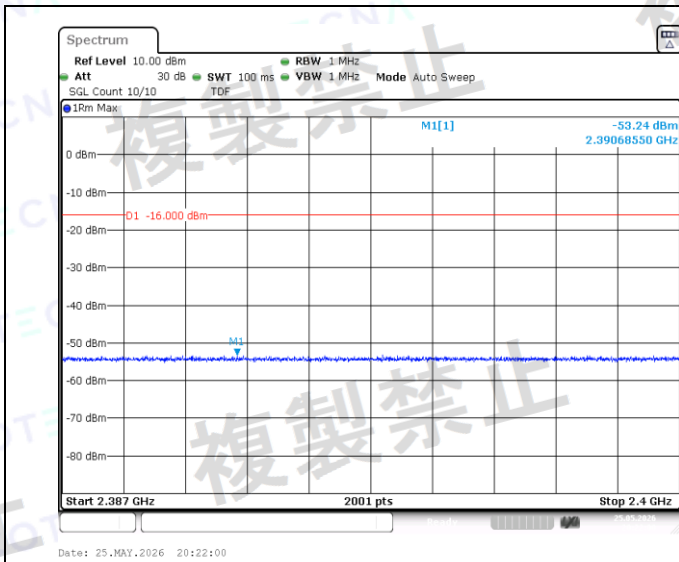


NTNV-BLE_1M-Ant1-2480-30~1000-PASS

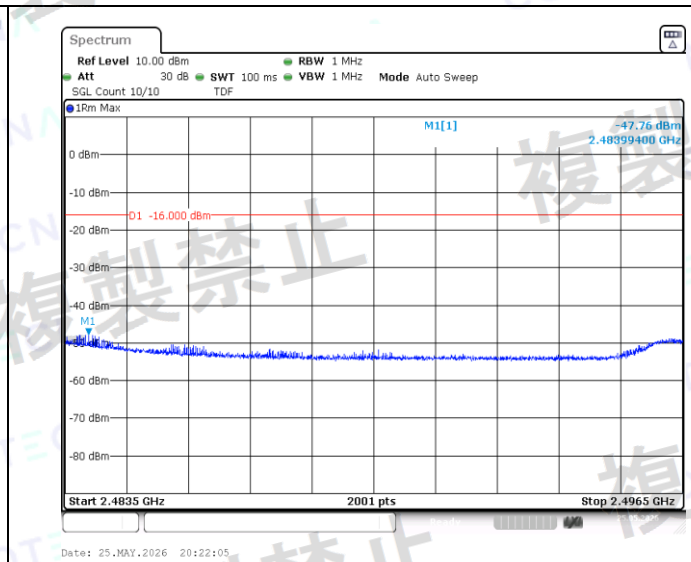


NTNV-BLE_1M-Ant1-2480-1000~2387-PASS

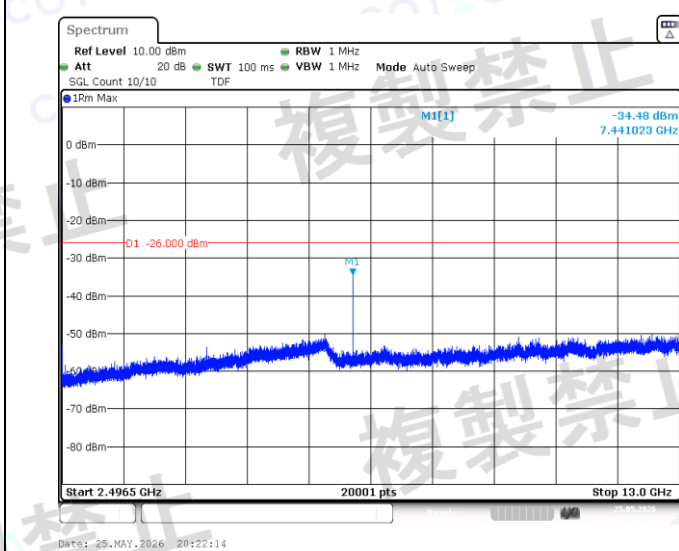




NTNV-BLE_1M-Ant1-2480-2387~2400-PASS



NTNV-BLE_1M-Ant1-2480-2483.5~2496.5-PASS



NTNV-BLE_1M-Ant1-2480-2496.5~13000-PASS



Appendix F: Spurious Emission of RX

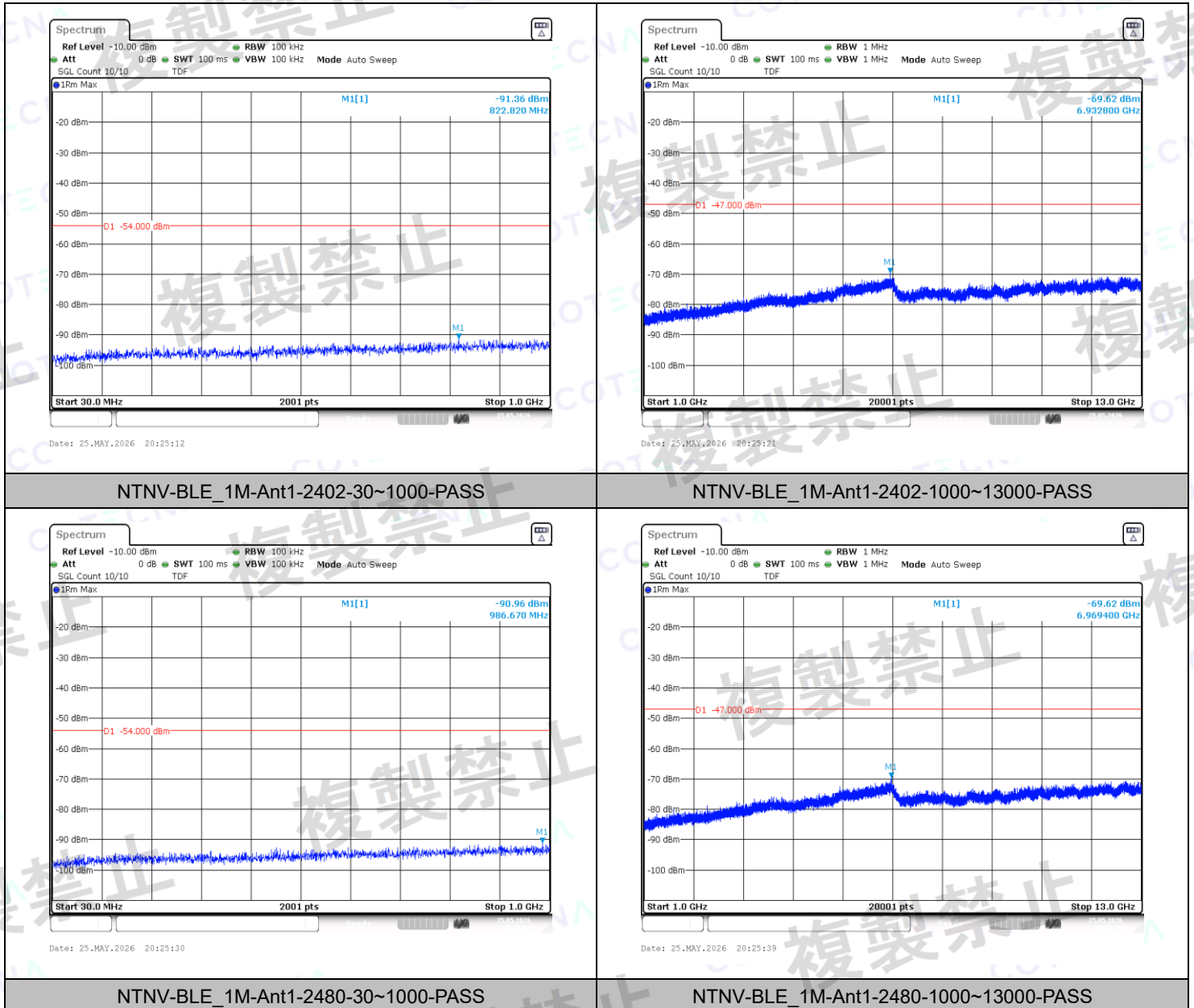
Test Result

Test Condition	Test Mode	Ant.	Freq (MHz)	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μ W]	Limit [μ W]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	-91.36	≤ -54	0.00073	≤ 4	PASS
NTNV	BLE_1M	Ant1	2402	1000~13000	-69.62	≤ -47	0.10914	≤ 20	PASS
NTNV	BLE_1M	Ant1	2480	30~1000	-90.96	≤ -54	0.00080	≤ 4	PASS
NTNV	BLE_1M	Ant1	2480	1000~13000	-69.62	≤ -47	0.10914	≤ 20	PASS

Remark: Only show the test data of worst condition.



Test Graphs



-----END OF THE REPORT-----

