



JAPAN RADIO TEST REPORT

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Province 314000 CN
Manufacturer : Guangdong Crearoma Scent Tech Limited
Address : Room 601, Building 13, No. 1 Jingdong Road, Fenggang Town,
Dongguan City, Guangdong Province China
E.U.T : Smart Aroma Diffuser
Trade Name : N/A
Model No. : ov3, rad8, u2, g-air, i-1, mx-ADer
Prepared by : Centre testing Commodity Co., LTD.
Address : Room 501, Yuanshuo Science Park Factory Building, No.8
South Lane, Xinshiqiao Street, Guihua Community, Longhua
District, Shenzhen.
Standards : MIC Notice No.88 Annex 43
Article 2 Paragraph 1, item 19
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Date of Report : Apr. 03, 2026

Test Engineer : King Wang

Manager : Raymon Yu



This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Centre testing Commodity Co., LTD.



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1. TECHNICAL INFORMATION

Note: the following data is based on the information by the applicant.

1.1 EUT DESCRIPTION

Product Designation:	Smart Aroma Diffuser
Model Name:	ov3
Series Model:	rad8, u2, g-air, i-1, mx-ADer
Model Difference:	All the same except the model number and color.
Modulation Type:	GFSK
Operation Frequency:	2402 ~ 2480MHz for BLE
Antenna Designation:	PCB Antenna (Antenna Gain: 1.4 dBi)
Channel No.:	40 Channels for BLE
Power Rating:	DC 12.0V/1.0A
Chip Power Rating:	DC 3.3V
Adapter Information:	Model: KDP-AM120100U Input: AC 100-240V, 50/60Hz 0.5A Max Output: DC 12.0V/1000mA
Hardware Version:	V2.0
Software Version:	V1.0

Note:

1. Only the BLE was tested according the standard requirement.
2. CH00~CH39 are Operating within 2402~2480MHz.
3. Please refer to Appendix B for the photographs of the EUT. For more details, please refer to the User's manual of the EUT.

**1.2 CHANNEL LIST**

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

1.3 TEST CONDITIONS

The WIFI module was tested while in a continuous transmitter/receiver mode.

The EUT was tuned to a low, middle, and high channel for all tests. For all test case pre/scans were completed in all Modes to determine worst case levels.

Voltage Fluctuation Test		Normal Voltage	High Voltage + 10% of Normal Voltage	Low Voltage - 10% of Normal Voltage
DC Power		DC 12V	DC 13.2V	DC 10.8 V
Chip Voltage		DC 3.301V	DC 3.306V	DC 3.293V
Voltage error(%)	Result	Ref.level	0.1515	-0.2424

Note:

Voltage Variation (%)

= (Output high or Low Voltage - Output Normal Voltage)/ Output Normal Voltage* 100

During the input supply voltage to the EUT from the external power source is varied by $\pm 10\%$, the fluctuation of input voltage to the circuit of RF unit of test equipment is exceed $\pm 1\%$. So, all measurement has been conducted by normal and limit voltage.

Temperature:	24.5℃	Humidity:	53%RH
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1.4 DESCRIPTION OF TEST MODES

To Label Printer Device the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	2402 (CH 00)
Mode 2	2440 (CH 19)
Mode 3	2480 (CH 39)

Test Channel	Description
Mode 1	2402 (CH 00)
Mode 2	2440 (CH 19)
Mode 3	2480 (CH 39)



2. SUMMARY OF TEST RESULTS

2.1 TEST PROCEDURES ACCORDING TO THE TECHNICAL STANDARDS:

Part	Rule Section	Description of Test	Result
4.1	3	Frequency Error	Pass
4.2	4	Occupied Bandwidth (99%) and Spread-spectrum Bandwidth (90%)	Pass
4.3	5	Unwanted Emission Intensity	Pass
4.4	6	Antenna Power Error	Pass
4.5	7	Limitation of Collateral Emission of Receiver	Pass
4.6	8	Transmission Antenna Gain (EIRP Antenna Power)	Pass
4.7	9	Transmission Radiation Angle Width (3dB Beamwidth)	N/A
4.8	10	Radio Interference Prevention Capability	Pass
4.9	Note1	Carrier Sense Capability	N/A
4.10	Note 2	Construction Protection Confirmation	Pass

Note 1: MIC Notice No.88 Appendix No.43

Note 2: MIC Ordinance Regulating Radio Equipment Section 4.17 of Article 49.20.

2.2 TEST FACILITY

Centre testing Commodity Co., LTD.

Address: Room 501, Yuanshuo Science Park Factory Building, No.8 South Lane, Xinshiqiao Street, Guihua Community, Longhua District, Shenzhen.

Web: www.ctc-labs.com

Mail: info@ctc-labs.com

2.3 MEASUREMENT UNCERTAINT

For the test methods, according to the present document, the measurement uncertainty figures shall be calculated in accordance with TR100028-1 [2] and shall correspond to an expansion factor (coverage factor) $K=1.96$ or $K=2$ (which provide confidence levels of respectively 95% and 95.5% in the case where the distributions characterizing the actual measurement uncertainties are normal).

Parameter	Uncertainty
RF frequency	$\pm 6 \times 10^{-7}$ MHz
Total RF power, conducted	± 0.8 dB
Spurious emissions, conducted	± 0.8 dB
DC and low frequency voltages	$\pm 3\%$ V
Humidity	$\pm 5\%$
Temperature	$\pm 1^\circ\text{C}$



3. DETAILS OF TEST

3.1 LIST OF TEST EQUIPMENTS

Kind of Equipment	Manufacturer	Type	S/N	Last calibration	Calibrate until
Wideband radio communication tester	R&S	CMW500	116483	2025-04-29	2026-04-28
MXA Signal Analyzer	Keysight	N9020A	MY51281805	2025-04-29	2026-04-28
EXA Signal Analyzer	Keysight	N9010A	MY54488841	2025-04-29	2026-04-28
MXG Vector Signal Generator	Agilent	N5182A	MY49060701	2025-04-29	2026-04-28
MXG Analog Signal Generator	Agilent	N5181A	MY50143107	2025-04-29	2026-04-28
RF control unit	Techy	TR1029-1	21C8060397	2025-04-29	2026-04-28
DC Power supply	Agilent	E3632A	MY50120052	2025-04-29	2026-04-28
Oscilloscope	Siglent	SDS1202X-E	SDSEBBQ1R5533	2025-04-08	2026-04-07
Power Meter	Agilent	E4419B	230480	2025-04-29	2026-04-28

Note: 1. Calibration by the calibration agencies listed in the table correspond to paragraph 4 (ii) (c) of Article 24-2 in the Radio Law.

2. Calibration Laboratory: Guangzhou Lisai Metrology & Test Co., Ltd

3. ☐ (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.

3.2 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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.

No.	Equipment	Brand	Model/Type No.	Series No.	Note
1	Smart Aroma Diffuser	N/A	ov3	N/A	EUT
2	PC	Lenovo	510Pro-14IMB	N/A	AE

Note:

(1) The support equipment was authorized by Declaration of Confirmation.

(2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

(3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.



4. TEST RESULTS

4.1 FREQUENCY ERROR MEASUREMENT

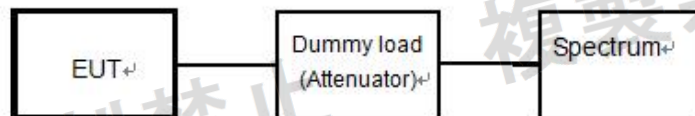
4.1.1. LIMIT

Item	Limits
Frequency Tolerance (2402~2483.5MHz)	$\leq \pm 50\text{ppm}$

4.1.2. TEST PROCEDURES

1. Frequency accuracy of SA shall be less than 10% of limits tolerance (5ppm)
2. Setting of SA is following as: RB:10kHz / VB:10kHz / SPAN: 1MHz
AT: 10dB / Ref: 0dBm
3. Center Frequency: The center frequency of testing for EUT
4. Sweep time: Auto
5. Sweep mode: Continuous sweep
6. Detect mode: Positive peak
7. Mark function: Frequency Counter (Resolution 100Hz)
8. EUT have transmitted absence of modulation signal and fixed channelize. f is using the mark cursor to mark the peak frequency value, fc is declaring of channel frequency.
Then the frequency error formula is $(f_c - f) / f_c \times 10^6$ ppm and the limit is less than $\pm 50\text{ppm}$

4.1.3. TEST SETUP LAYOUT



4.1.4. TEST DEVIATION

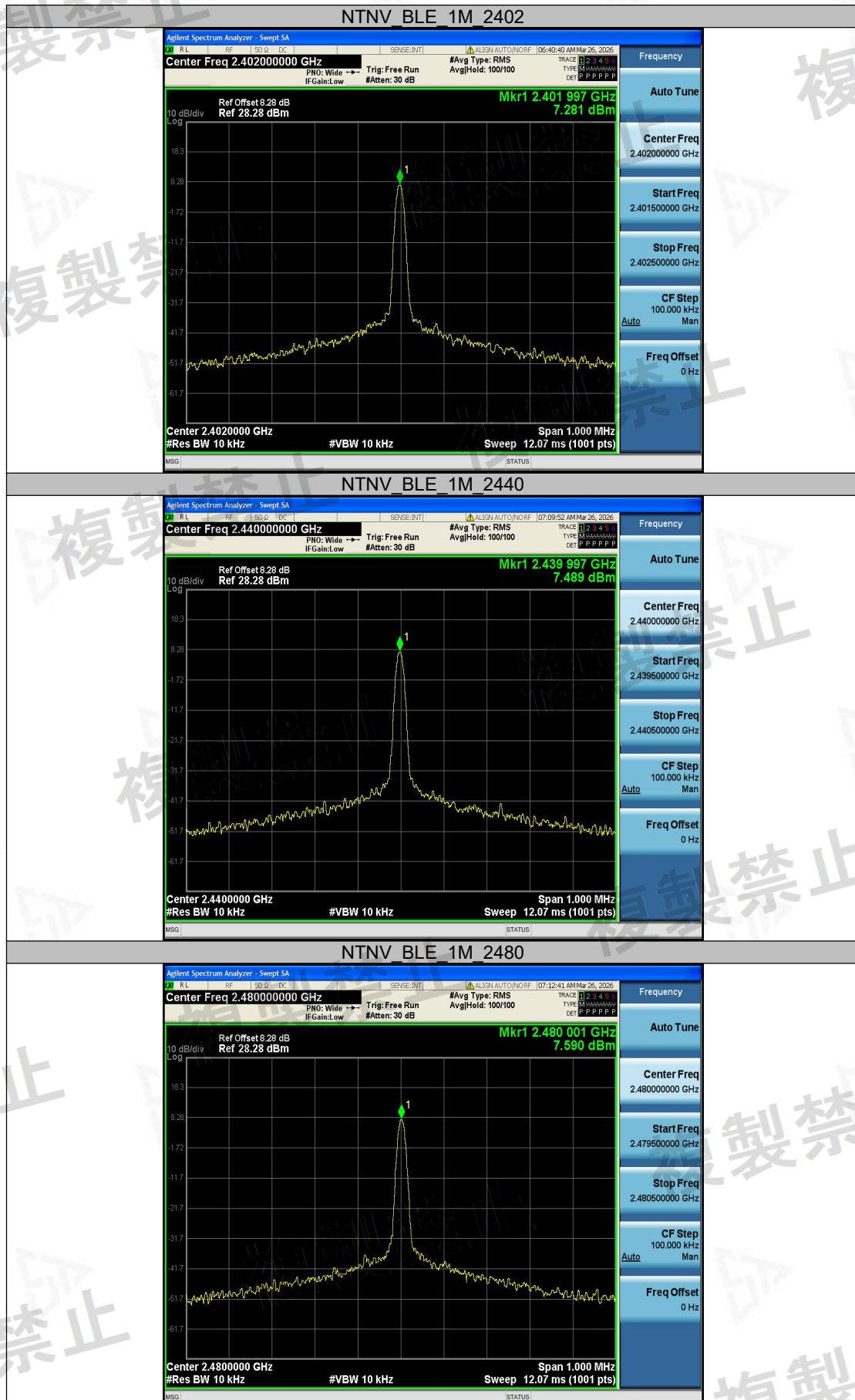
There is no deviation with the original standard.

4.1.5. EUT OPERATION DURING TEST

The EUT was placed on the test table and programmed in un-modulation function

4.1.6. RESULTS OF FREQUENCY ERROR

Test Voltage	Frq(MHz)	Test Frq(MHz)	Result[ppm]	Limit[ppm]	Verdict
Normal Voltage	2402	2401.997	-1.249	± 50	PASS
	2440	2439.997	-1.230	± 50	PASS
	2480	2480.001	0.403	± 50	PASS

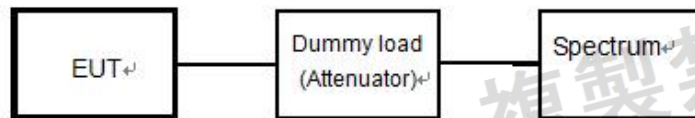


**4.2. OCCUPIED BANDWIDTH AND SPREAD-SPECTRUM BANDWIDTH MEASUREMENT****4.2.1. LIMIT**

Item	Limits
Occupied Bandwidth:	FH $\leq$ 83.5MHz; OFDM, DS $\leq$ 26MHz, OFDM within 26-40MHz; Others $\leq$ 26MHz
Spreading Bandwidth:	$\geq$ 500 kHz

4.2.2. TEST PROCEDURES

- Setting of SA is following as: RB: 30kHz / VB: 30kHz / SPAN: 4MHz
AT: 10dB Ref:-20dBm / 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 (For FHSS Device).
SA set to 99% of occupied bandwidth to measure occupied bandwidth. The limit is less than 26MHz(For DSSS or OFDM Device) or 83.5MHz(For FHSS Device).
- SA set to 90% of occupied bandwidth to measure Spread Spectrum Bandwidth and must greater than 500kHz.
- Spread Spectrum Factor = Spread Spectrum Bandwidth / modulation rate of EUT.
- Spread Spectrum Factor limit is greater than 5

4.2.3. TEST SETUP LAYOUT**4.2.4. TEST DEVIATION**

There is no deviation with the original standard.

4.2.5. EUT OPERATION DURING TEST

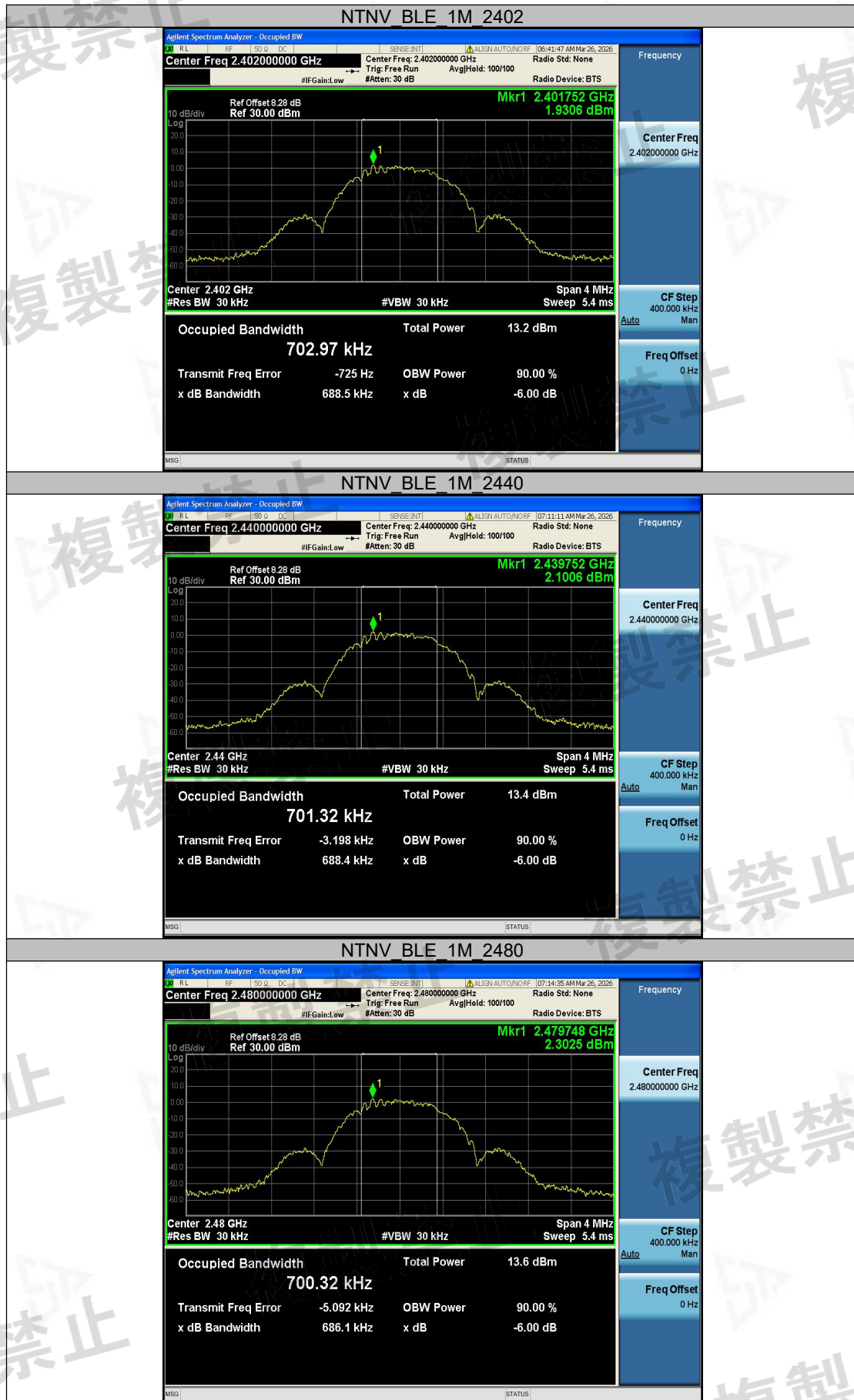
The EUT was programmed to be in continuously transmittin Mode.

4.2.6. RESULTS OF OCCUPIED BANDWIDTH AND SPREAD-SPECTRUM BANDWIDTH

Normal Voltage				
Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	2402	1.046	$\leq$ 26MHz	Pass
	2440	1.048	$\leq$ 26MHz	Pass
	2480	1.048	$\leq$ 26MHz	Pass

Normal Voltage				
Modulation	Frequency (MHz)	90% Spread Bandwidth (MHz)	Limit (MHz)	Result
GFSK	2402	0.703	$>$ 0.5	Pass
	2440	0.701	$>$ 0.5	Pass
	2480	0.700	$>$ 0.5	Pass







4.3. UNWANTED EMISSION INTENSITY MEASUREMENT

4.3.1 LIMIT

Item	Limits
TX Spurious Emission(2402~2483.5MHz)	$\leq 0.25 \mu\text{W}$ ($30\text{MHz} \leq f \leq 1000\text{MHz}$)
	$\leq 2.5 \mu\text{W}$ ($1000\text{MHz} < f \leq 2387\text{MHz}$)
	$\leq 25 \mu\text{W}$ ($2387\text{MHz} < f \leq 2400\text{MHz}$)
	$\leq 25 \mu\text{W}$ ($2483.5\text{MHz} \leq f < 2496.5\text{MHz}$)
	$\leq 2.5 \mu\text{W}$ ($2496.5\text{MHz} \leq f < 12500\text{MHz}$)

4.3.2. MEASURING INSTRUMENTS AND SETTING

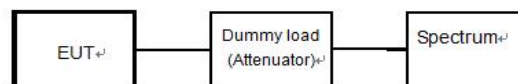
Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.3.3. TEST PROCEDURES

1. EUT have transmitted the maximum modulation signal and fixed channelize.
2. Setting of SA is following as: Below 1GHz RB:100KHz / VB:100KHz
Above 1GHz RB:1MHz / VB:1MHz / AT: 10dB Ref: 0dBm / Sweep time: Auto
Sweep Mode: Continuous sweep / Detect mode: Positive peak Trace mode: Max hold
3. Setting of SA is following as 30MHz and stop frequency 1000MHz Then to mark peak reading value + cable loss shall be less than 0.25 μW .
4. Setting of SA is following as 1000MHz and stop frequency 2387MHz Then to mark peak reading value + cable loss shall be less than 2.5 μW .
5. SA adjusted to start frequency 2387MHz and stop frequency 2400MHz. Then to mark peak reading value + cable loss shall be less than 25 μW .
6. SA adjusted to start frequency 2483.5MHz and stop frequency 2496.5MHz Then to mark peak reading value + cable loss shall be less than 25 μW
7. SA adjusted to start frequency 2496.5MHz and stop frequency 12500MHz Then to mark peak reading value + cable loss shall be less than 2.5 μW
8. Measure side band spurious as follows: For 2.4GHz band: 2374MHz~2400MHz and 2483.5MHz~2509.5MHz RBW = VBW = 30kHz, Result_Value = Measured_Value + 15.2 [dBm]
9. If the Result_Value is over the requirement, take total sum of 1MHz band centered at the spur frequency like ACLP measurement as Result_Value.

4.3.4. TEST SETUP LAYOUT



4.3.5. TEST DEVIATION

There is no deviation with the original standard.

4.3.6. EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmittin mode.

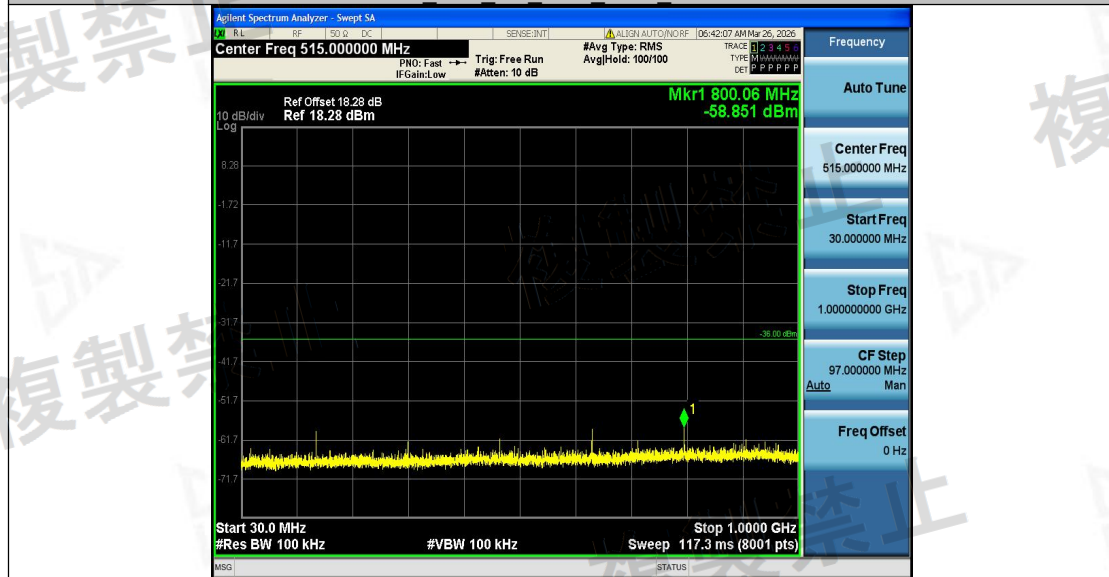
4.3.7. TEST RESULT OF UNWANTED EMISSION INTENSITY



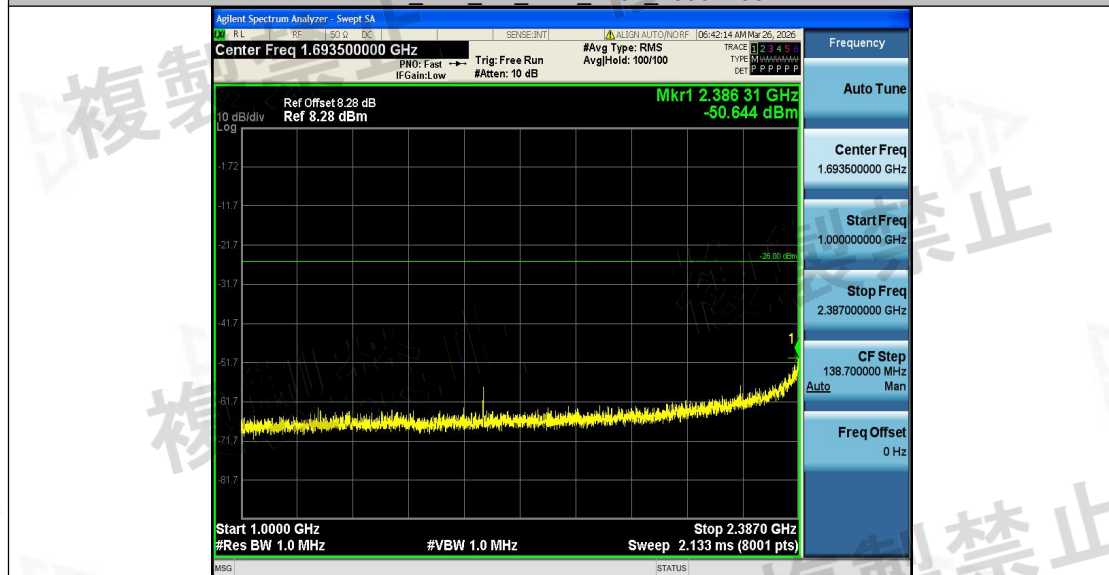
TestCondition	TestMode	Antenna	Channel	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	-58.85	≤-36	0.00130	≤0.3	PASS
				1000~2387	-50.64	≤-26	0.00863	≤2.5	PASS
				2387~2400	-29.63	≤-16	1.08893	≤25	PASS
				2483.5~2496.5	-55.37	≤-16	0.00290	≤25	PASS
				2496.5~13000	-55.64	≤-26	0.00273	≤2.5	PASS
			2440	30~1000	-58.50	≤-36	0.00141	≤0.3	PASS
				1000~2387	-54.74	≤-26	0.00336	≤2.5	PASS
				2387~2400	-54.01	≤-16	0.00397	≤25	PASS
				2483.5~2496.5	-54.48	≤-16	0.00356	≤25	PASS
				2496.5~13000	-55.81	≤-26	0.00262	≤2.5	PASS
			2480	30~1000	-58.79	≤-36	0.00132	≤0.3	PASS
				1000~2387	-56.96	≤-26	0.00201	≤2.5	PASS
				2387~2400	-56.40	≤-16	0.00229	≤25	PASS
				2483.5~2496.5	-42.36	≤-16	0.05808	≤25	PASS
				2496.5~13000	-50.02	≤-26	0.00995	≤2.5	PASS



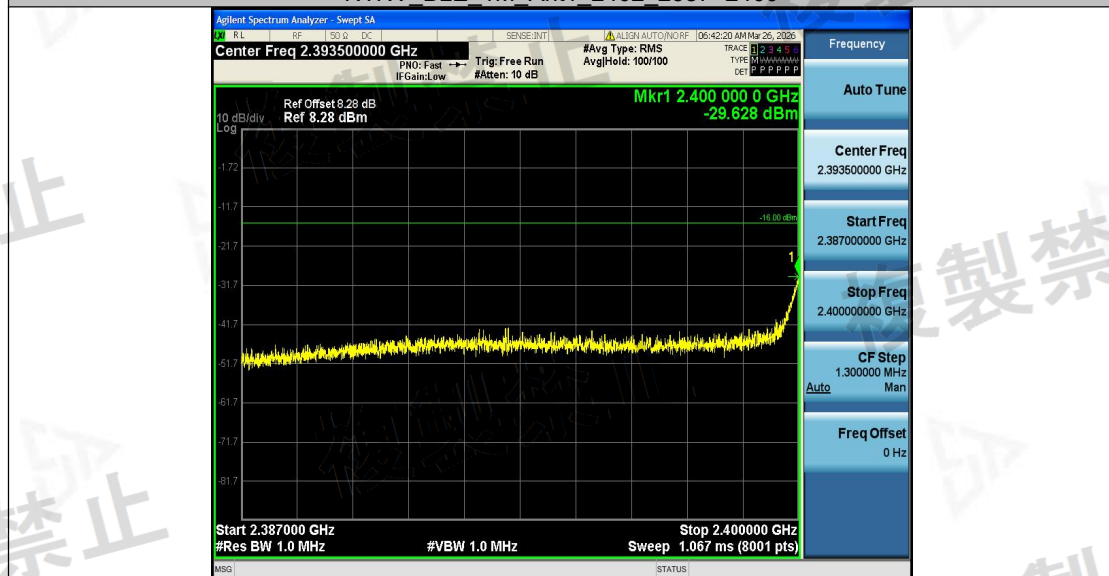
NTNV_BLE_1M_Ant1_2402_30~1000



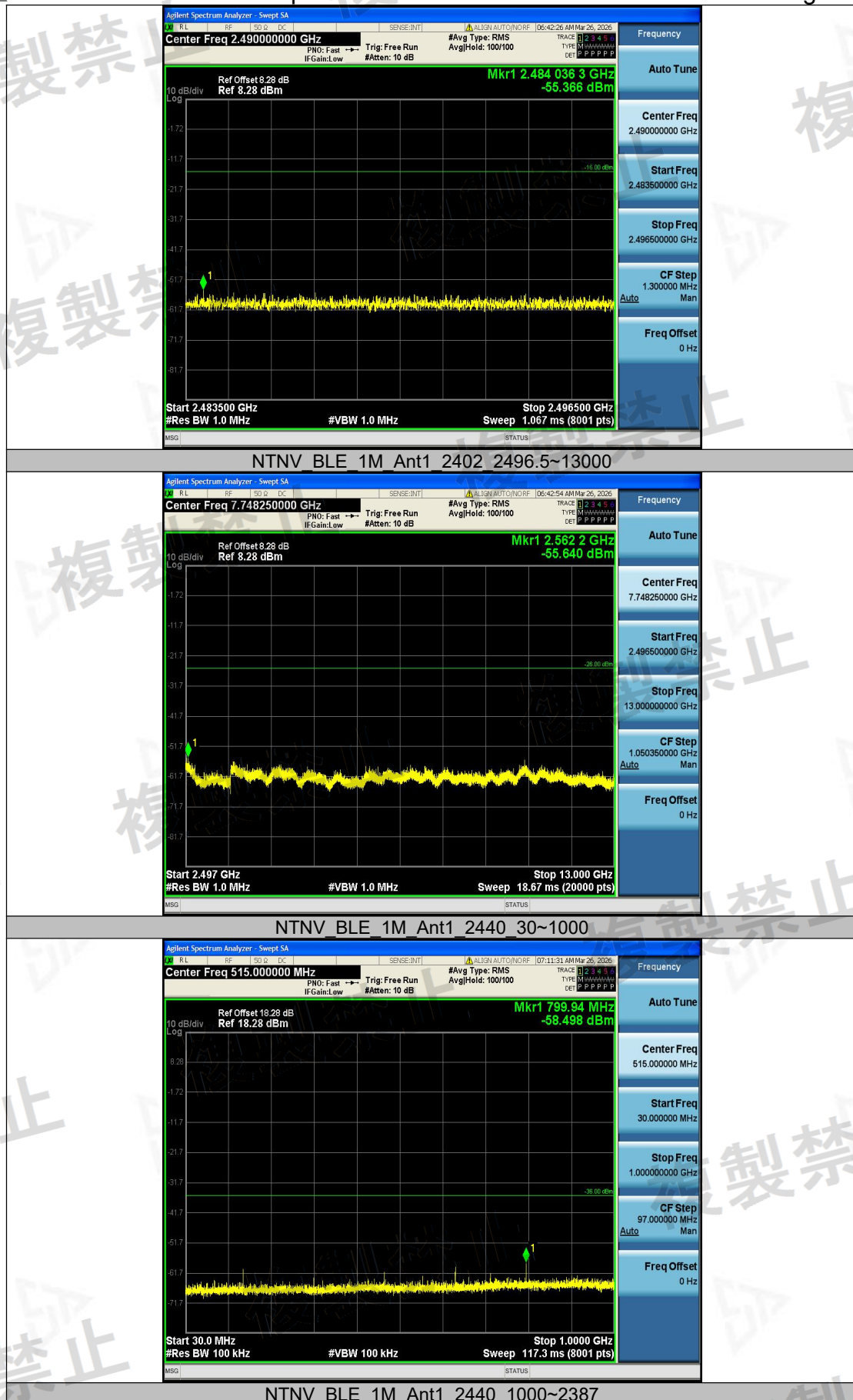
NTNV_BLE_1M_Ant1_2402_1000~2387

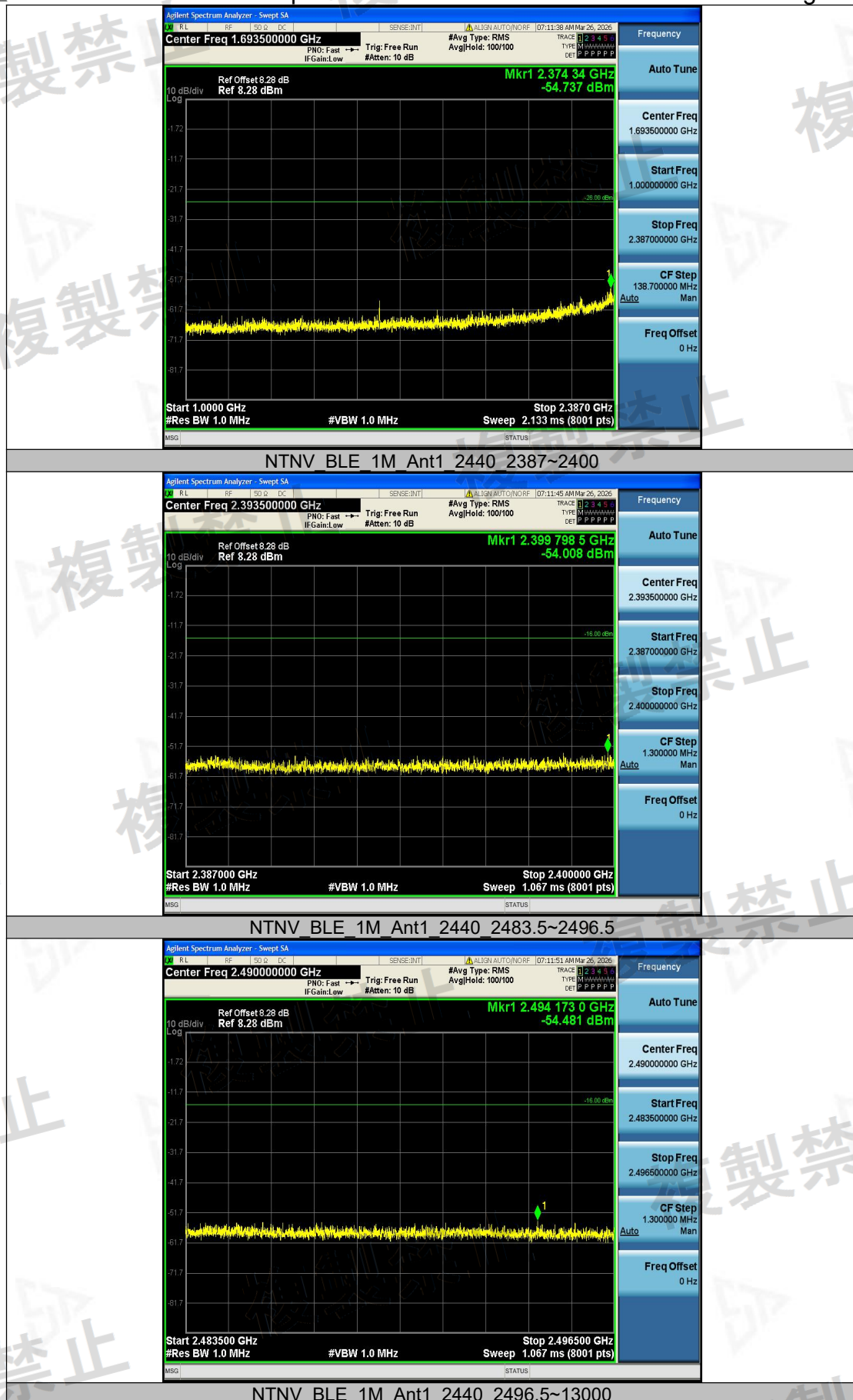


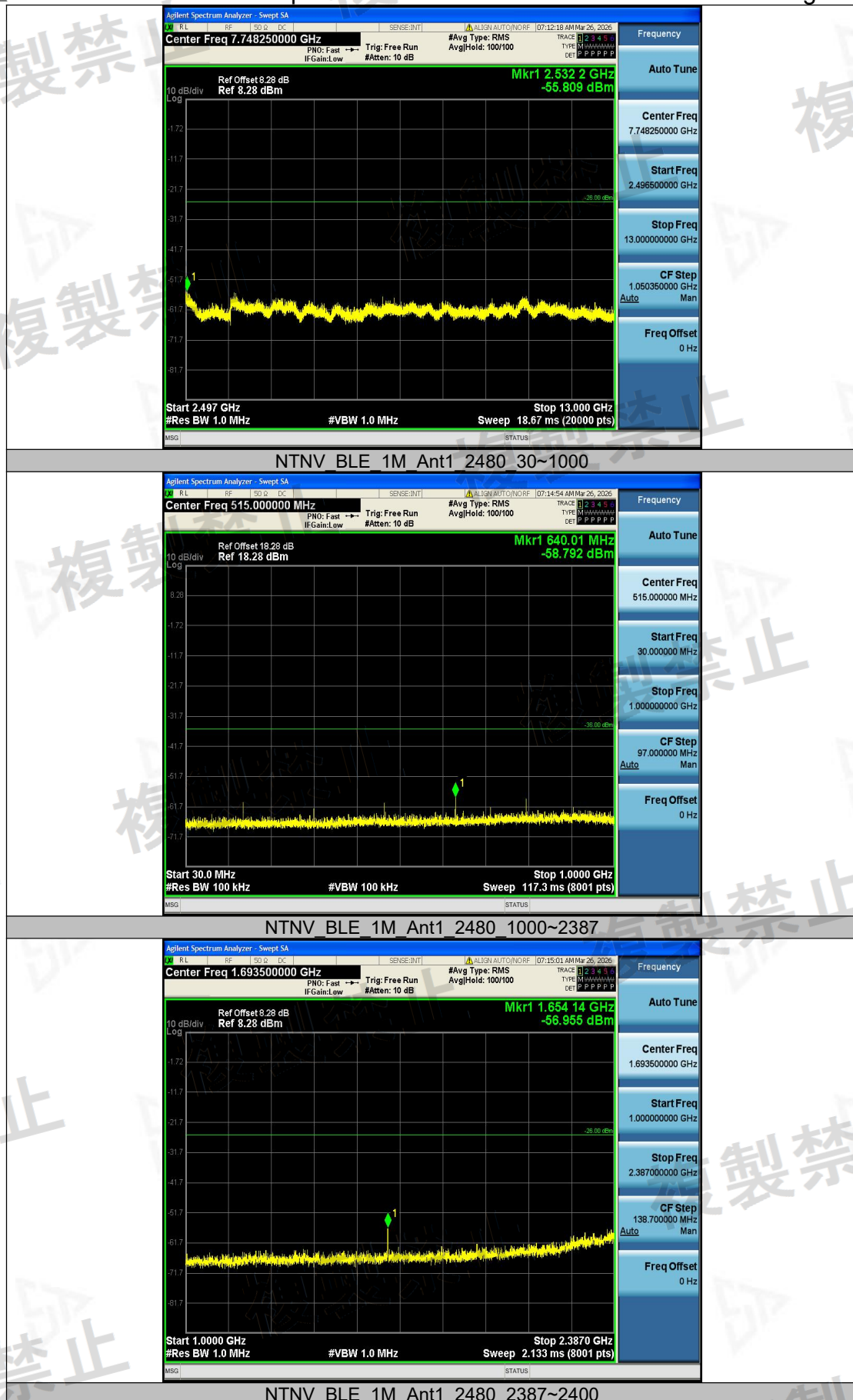
NTNV_BLE_1M_Ant1_2402_2387~2400

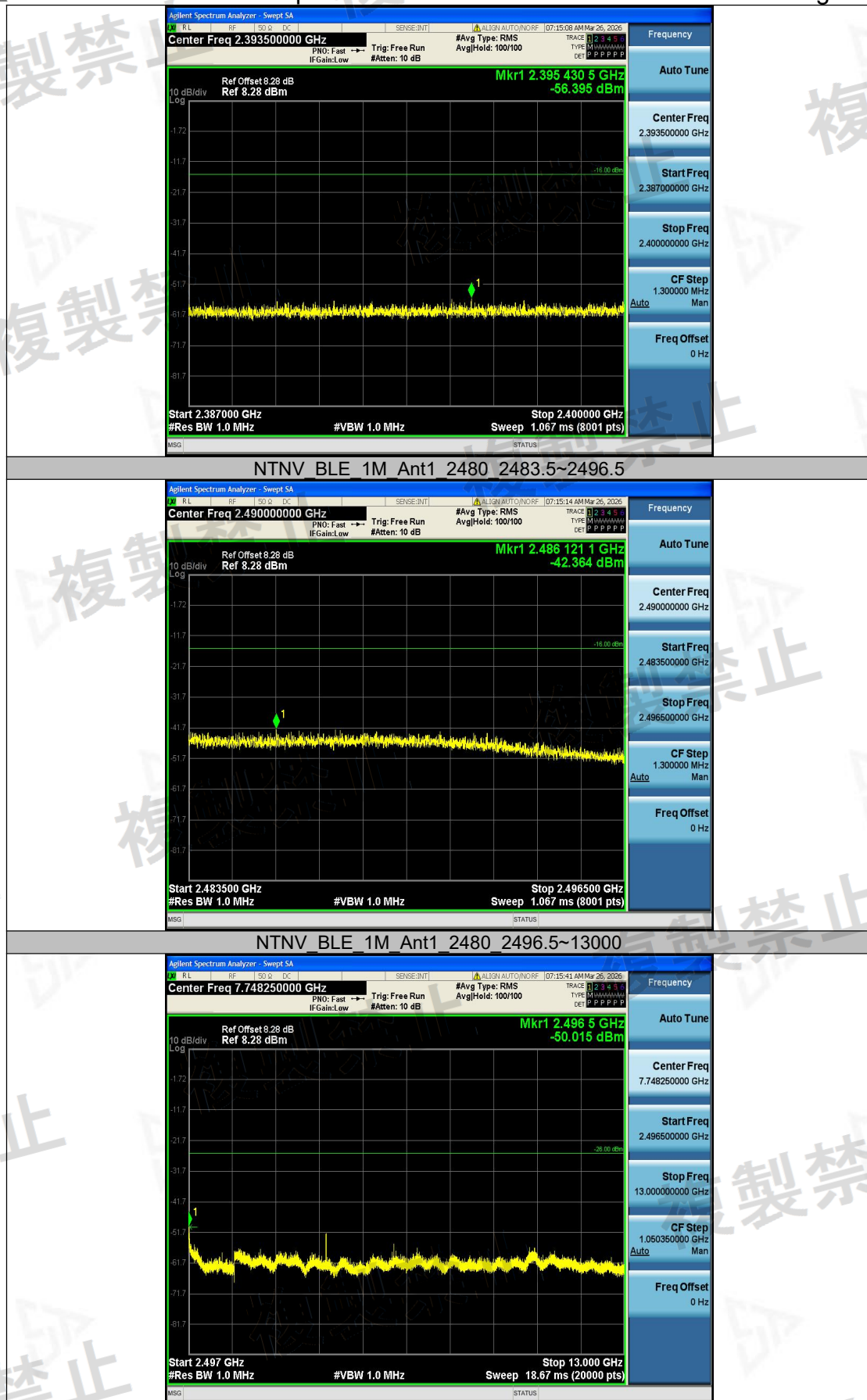


NTNV_BLE_1M_Ant1_2402_2483.5~2496.5









Note: SA set to from 2.4965GHz to 13GHz, plot shows from 2.497GHz to 13GHz as of SA's default format.



4.4. ANTENNA POWER ERROR MEASUREMENT

4.4.1. LIMIT

Item	Limits
Antenna Power Density	$\leq 3\text{mW}$ (FH form 2402~2480MHz) $\leq 10\text{mW}$ (OFDM,DS from 2400~2483.5MHz) $\leq 10\text{mW}$ (Other from 2400~2483.5MHz)
Antenna Power Error	+20% (Base on manufacturer declare antenna power density)

4.4.2. TEST PROCEDURES

Step 1:

Connect the UUT to the spectrum analyzer as TEST CONFIGURATION and use the following settings:

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

RBW: 1 MHz

VBW: 3 MHz

Span: Wide enough to cover the complete power envelope of the signal of the UUT.

Detector: Peak

Trace Mode: Max Hold

Step 2:

When the trace is complete, find the peak value of the power envelope and record the frequency.

Step 3:

Make the following changes to the settings of the spectrum analyzer: • Centre Frequency: Equal to the frequency recorded in step 2.

Span: 0 MHz

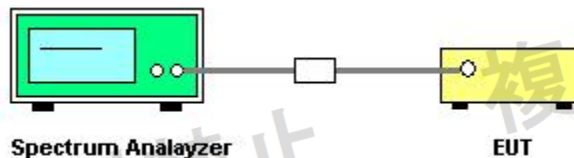
RBW: 1 MHz

VBW: 1 MHz

Detector: RMS

Trace Mode: Clear Write

4.4.3. TEST SETUP LAYOUT

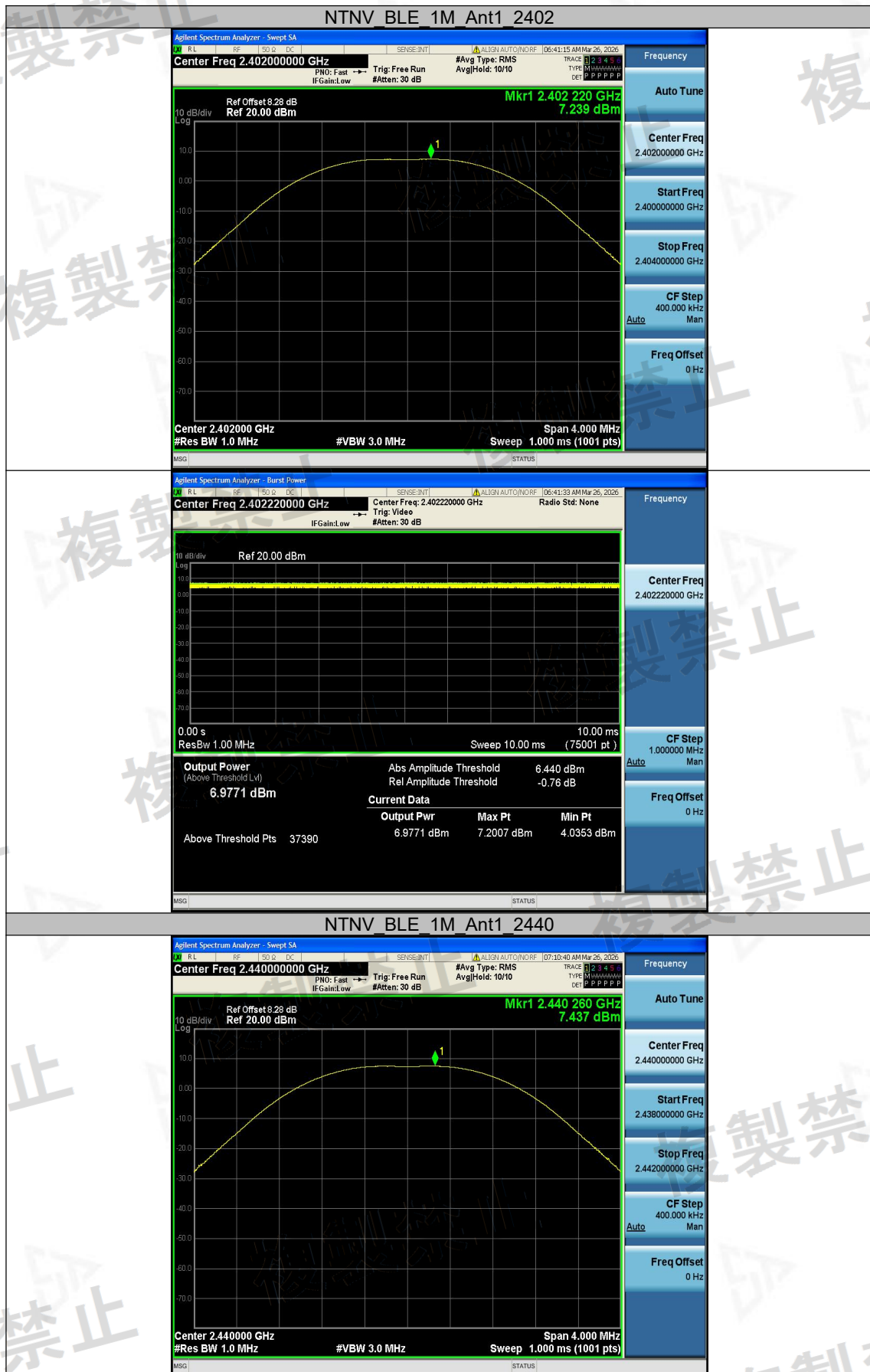


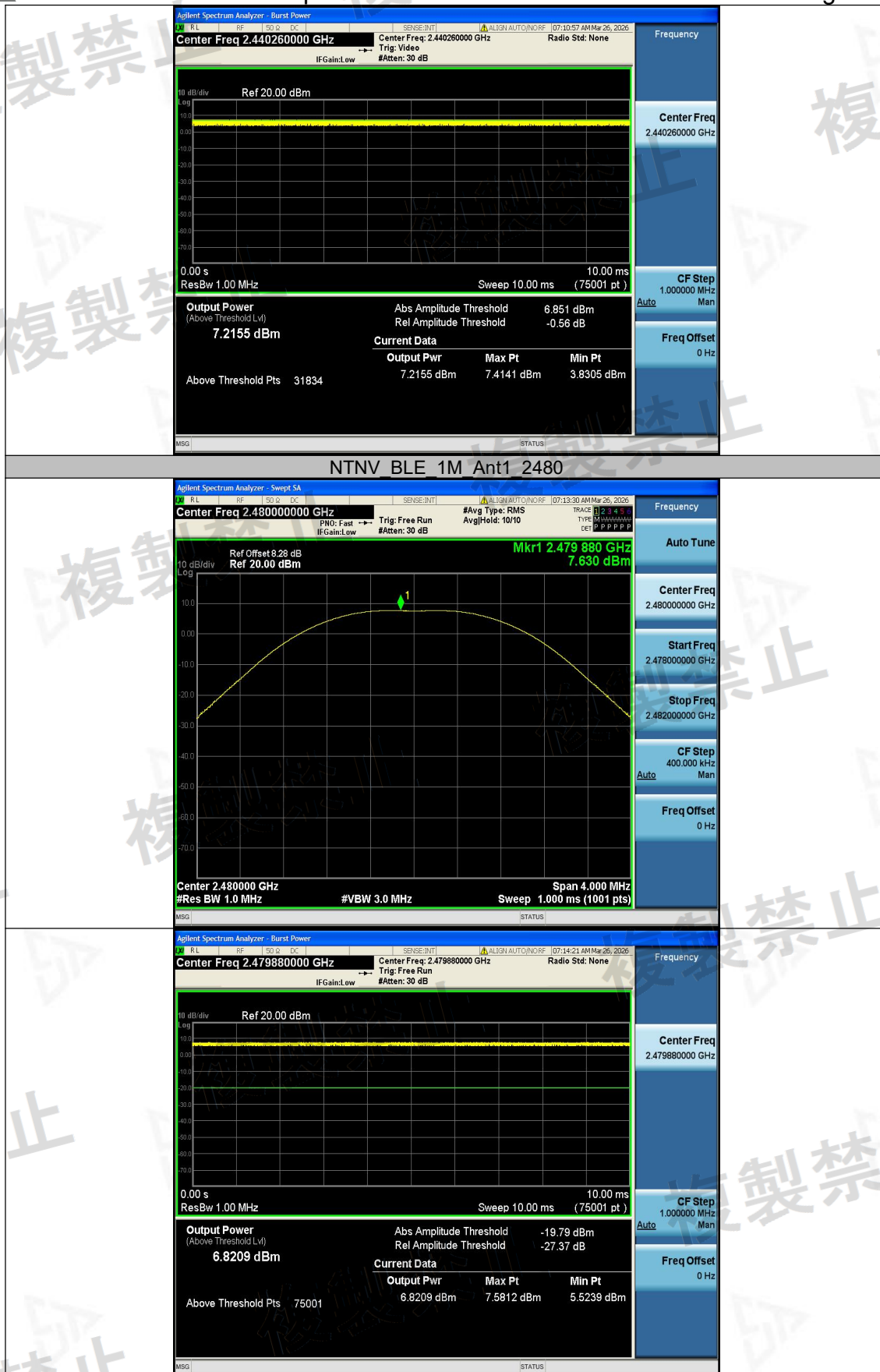
4.4.4. EST DEVIATION

There is no deviation with the original standard.

4.4.5. TEST RESULT OF ANTENNA POWER ERROR

Antenna Power							
Test Voltage	Test Mode	Antenna	Channel	Result (dBm)	Result (mW)	Limit(mW)	Verdict
Normal Voltage	BLE_1M	Ant1	2402	6.98	4.99	≤10	PASS
			2440	7.22	5.27	≤10	PASS
			2480	6.82	4.81	≤10	PASS
Tolerance							
Test Voltage	Test Mode	Antenna	Channel	Power (mW)	RatedPower (mW)	Result (%)	Limit (%)
Normal Voltage	BLE_1M	Ant1	2402	4.99	5.000	-0.20	+20
			2440	5.27	5.000	5.40	+20
			2480	4.81	5.000	-3.80	+20





**4.5. SECONDARY RADIATED EMISSIONS TEST****4.5.1. LIMIT**

Item	Limits
RX Spurious Emission:	$\leq 4\text{nW}$ ($f < 1\text{GHz}$)
	$\leq 20\text{nW}$ ($1\text{GHz} \leq f$)

4.5.2. MEASURING INSTRUMENTS AND SETTING

Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

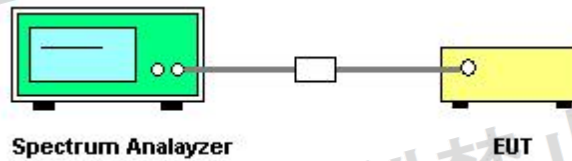
Spectrum Parameter	Setting
Attenuation	Auto
RB	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
VB	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.5.3. TEST PROCEDURES

1. EUT have the continuous receptio and fixed only one channelize.
2. Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) / AT: 10dB / Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
3. SA set RB: 100kHz and VB: 100kHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW
4. SA set RB: 1MHz and VB: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 12500MHz. Search to mark peak reading value + cable loss shall be less than 20nW
5. If power level of lower emissions are more than 1/10 of limit (.0.4nW for $f < 1\text{GHz}$, 2nW for $f \geq 1\text{GHz}$), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated.



4.5.4. TEST SETUP LAYOUT



4.5.6. TEST DEVIATION

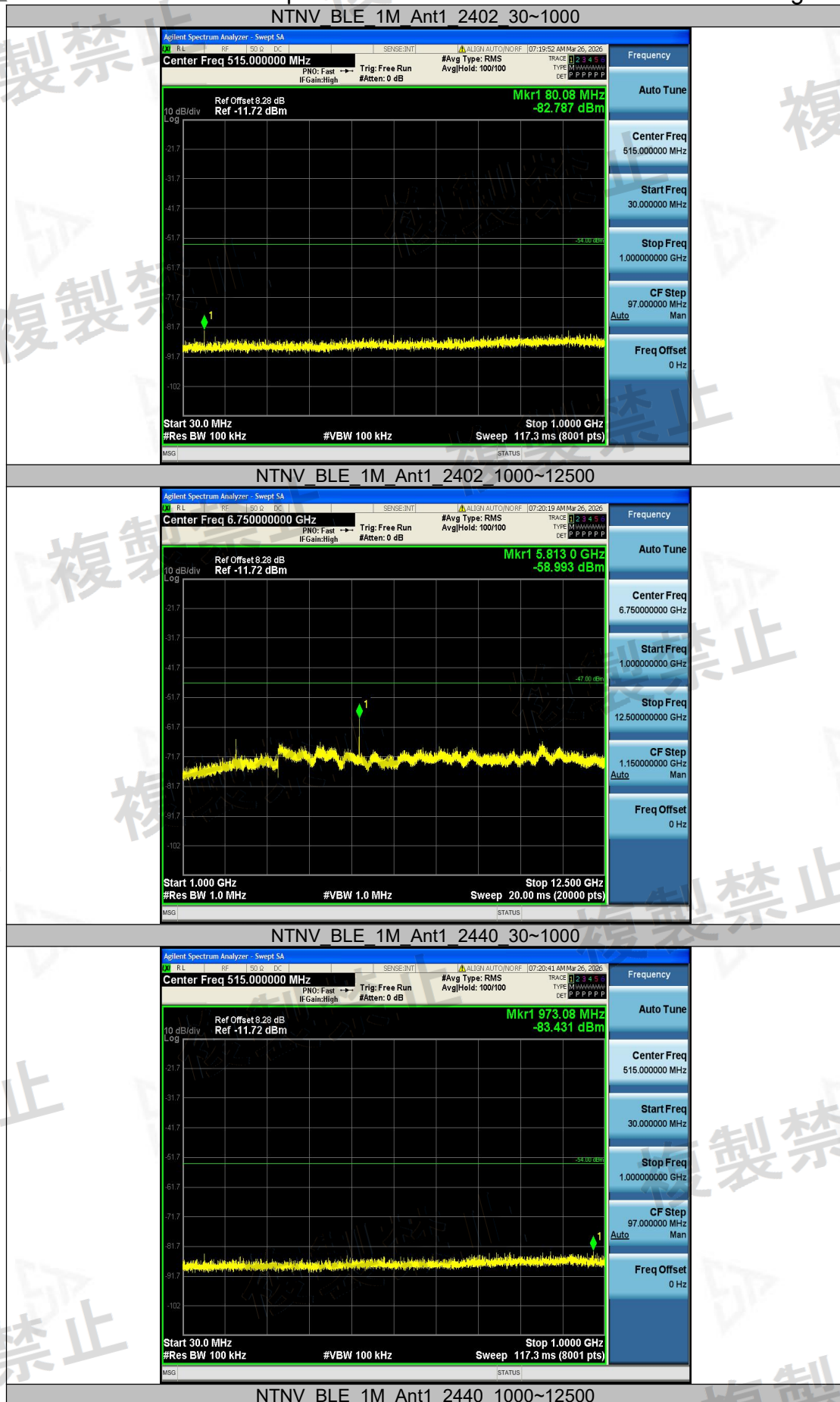
There is no deviation with the original standard.

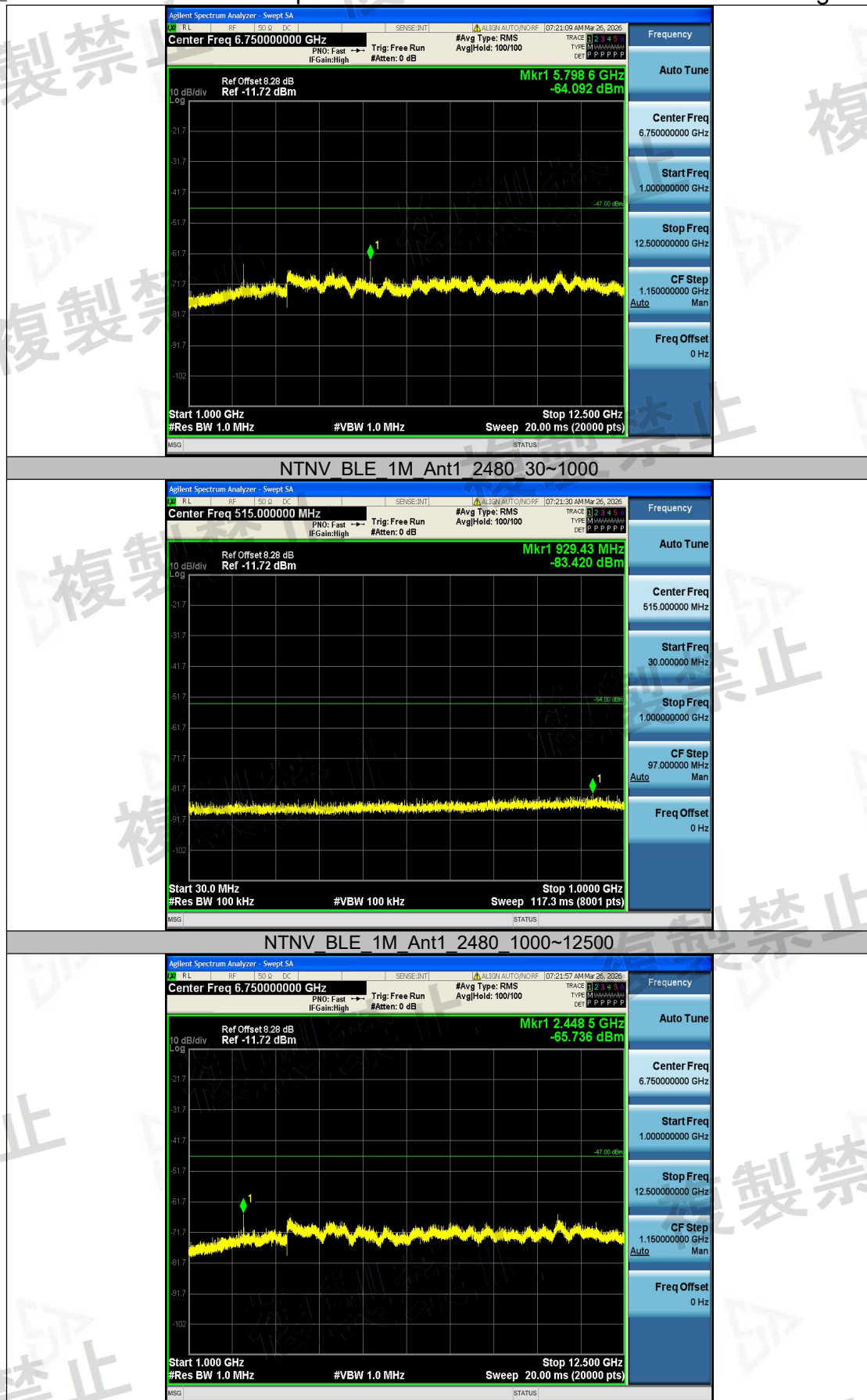
4.5.7. EUT OPERATION DURING TEST

The EUT was programmed to be in continuously reception mode.

4.5.8. TEST RESULT

TestCondition	TestMode	Antenna	Channel	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	-82.79	≤-54	0.00526	≤4	PASS
				1000~12500	-58.99	≤-47	1.26183	≤20	PASS
			2440	30~1000	-83.43	≤-54	0.00454	≤4	PASS
				1000~12500	-64.09	≤-47	0.38994	≤20	PASS
			2480	30~1000	-83.42	≤-54	0.00455	≤4	PASS
				1000~12500	-65.74	≤-47	0.26669	≤20	PASS





**4.6. TRANSMISSION ANTENNA GAIN (EIRP ANTENNA POWER) MEASUREMENT****4.6.1. LIMIT**

Item	Limits
EIRP Power Density	$\leq 16.91\text{dBm}$ (FH form 2427 - 2470.75 MHz) $\leq 12.14\text{dBm}$ (OFDM,DS from 2400~2483.5MHz) $\leq 12.14\text{dBm}$ (Other from 2400~2483.5MHz)

The EIRP power= Conducted RF output power density(dBm/MHz) + Antenna Gain

4.6.2. RESULTS OF TRANSMISSION ANTENNA GAIN

EIRP Power							
Test Condition	Test Mode	Antenna	Channel	Result (dBm)	EIRP Power (dBm)	Limit (dBm)	Verdict
NTNV	BLE_1M	1.4	2402	6.98	8.38	≤ 12.14	PASS
		1.4	2440	7.22	8.62	≤ 12.14	PASS
		1.4	2480	6.82	8.22	≤ 12.14	PASS

**4.7. TRANSMISSION RADIATION ANGLE WIDTH (3DB BEAMWIDTH) MEASUREMENT****4.7.1. LIMIT**

Item	Limits
3dB antenna beam width	$360/A$ (If $A < 1$; then $A = 1$) $A = \{\text{EIRP Power [mW]} / 16.36 \text{ for DS, OFDM}\}$ or $A = \{\text{EIRP Power [mW]} / 4.9 \text{ for FH}\}$

4.7.2. MEASURING INSTRUMENTS AND SETTING

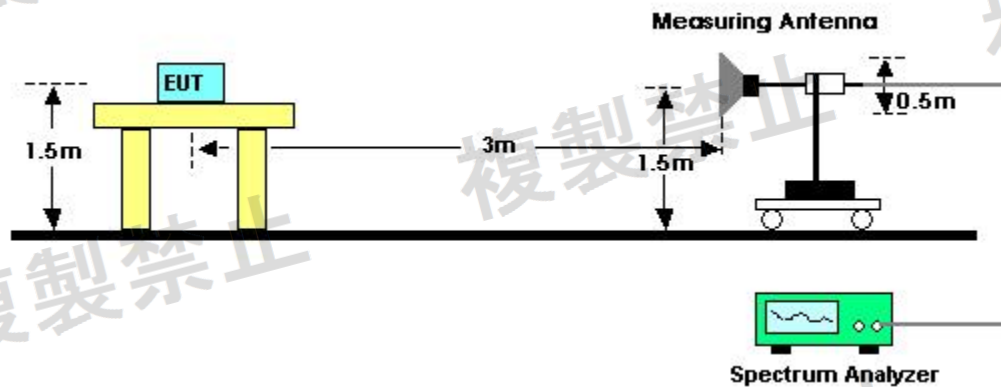
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	0 MHz
RB	1 MHz
VB	1 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.7.3. TEST PROCEDURES

1. Set EUT and measuring antenna at the same height and roughly facing each other.
2. Set spectrum analyzer with condition in section 4.7.2 and tune reference level to observe receiving signal position.
3. Rotate directions of the EUT horizontally and vertically to find the maximum receiving power.
4. Move the measuring antenna height up and down within $\pm 50\text{cm}$ of EUT height and swing it to find the maximum output of measuring antenna. The output level at the spectrum analyzer is read as "E"
5. Calculate permitted radiation angle in horizontal and vertical using EIRP measured in another test method.
6. Calculate 3dB antenna beam width by the formula below $360/A$ (If $A < 1$; then $A = 1$).
 $A = \{\text{EIRP Power [mW]} / 16.36 \text{ for DS, OFDM}\}$ or
 $A = \{\text{EIRP Power [mW]} / 4.9 \text{ for FH}\}$



4.7.4. TEST SETUP LAYOUT



4.7.5. TEST DEVIATION

There is no deviation with the original standard.

4.7.6. EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmittin mode.

4.7.7. TEST RESULT OF TRANSMISSION RADIATION ANGLE WIDTH (3DB BEAMWIDTH)

The test item is not applicable to the transmitting antenna with EIRP less than 12.14dbm.

**4.8. RADIO INTERFERENCE PREVENTION CAPABILITY MEASUREMENT****4.8.1. LIMIT**

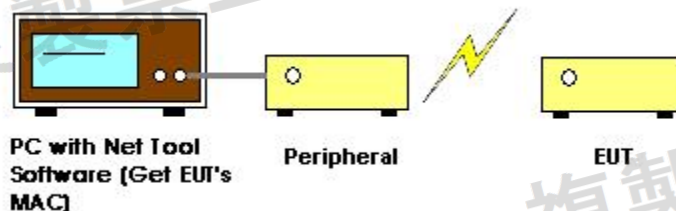
Item	Limits
Identification code	≥ 48 bits

4.8.2. MEASURING ID CODE SOFTWARE

Item	Limits
MAC IP List	MAC Scan

4.8.3. TEST PROCEDURES

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.

4.8.4. TEST SETUP LAYOUT**4.8.5. TEST DEVIATION**

There is no deviation with the original standard.

4.8.6. EUT OPERATION DURING TEST

The EUT was programmed to be in normal transmission mode.

4.8.7. TEST RESULT OF RADIO INTERFERENCE PREVENTION CAPABILITY

Pass

Address: 5e55058a00ec



4.9. CONSTRUCTION PROTECTION CONFIRMATION METHOD

4.9.1. LIMIT

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

4.9.2. CONFIRMATION METHOD

We apply the product for Japan RF certification. The RF Chip is soldered on the PCB; protect anybody to remove it easily.



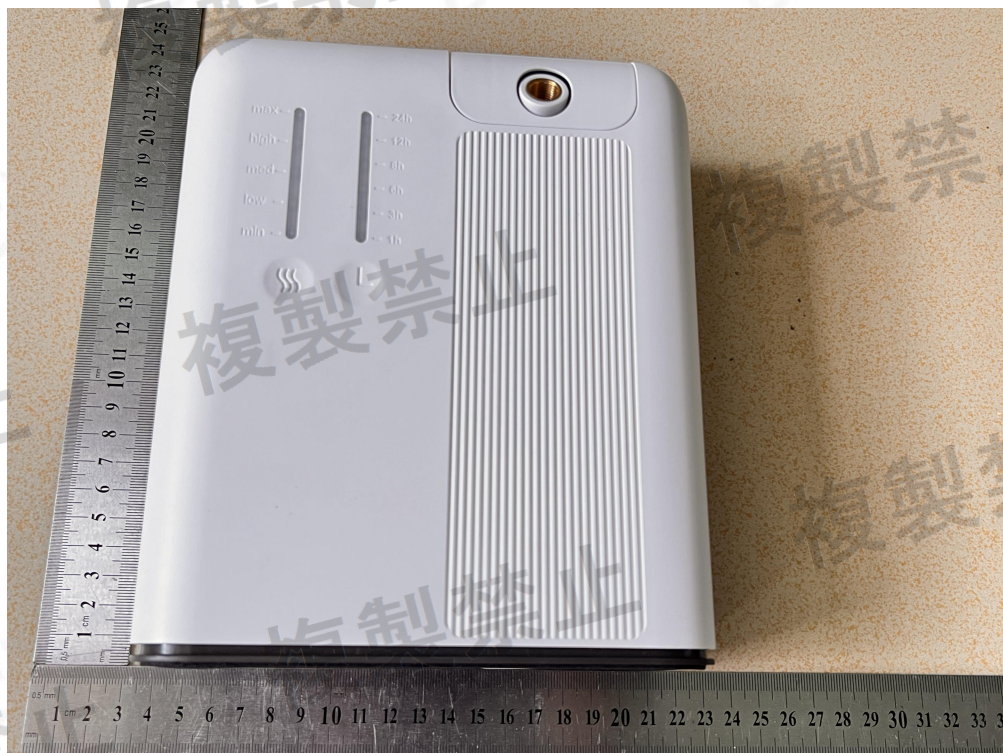
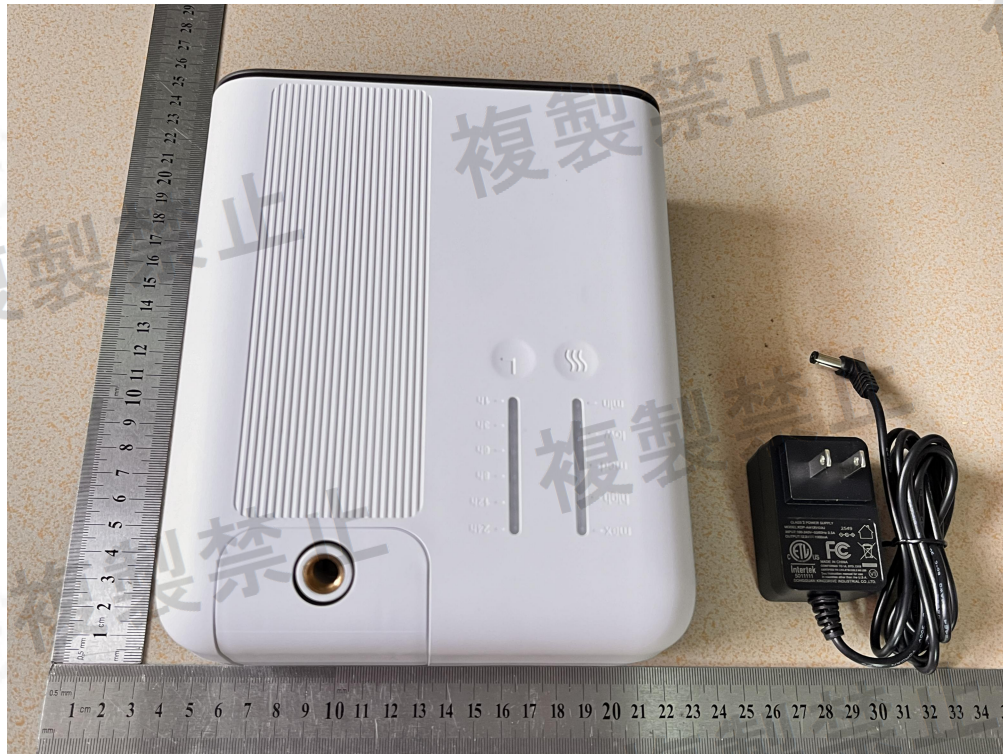


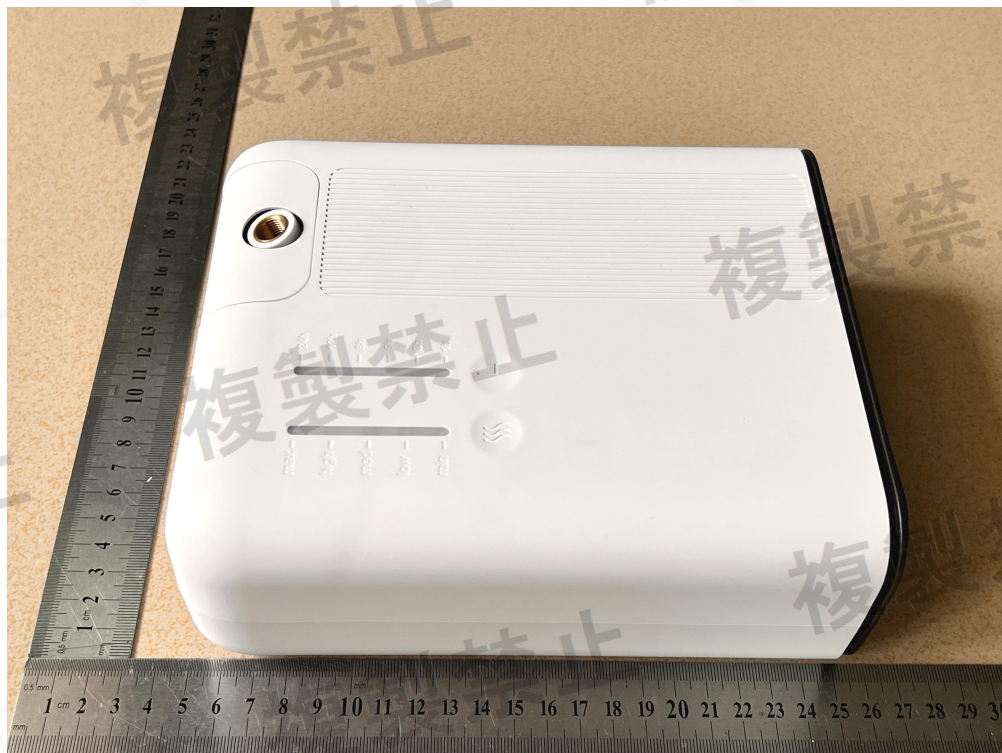
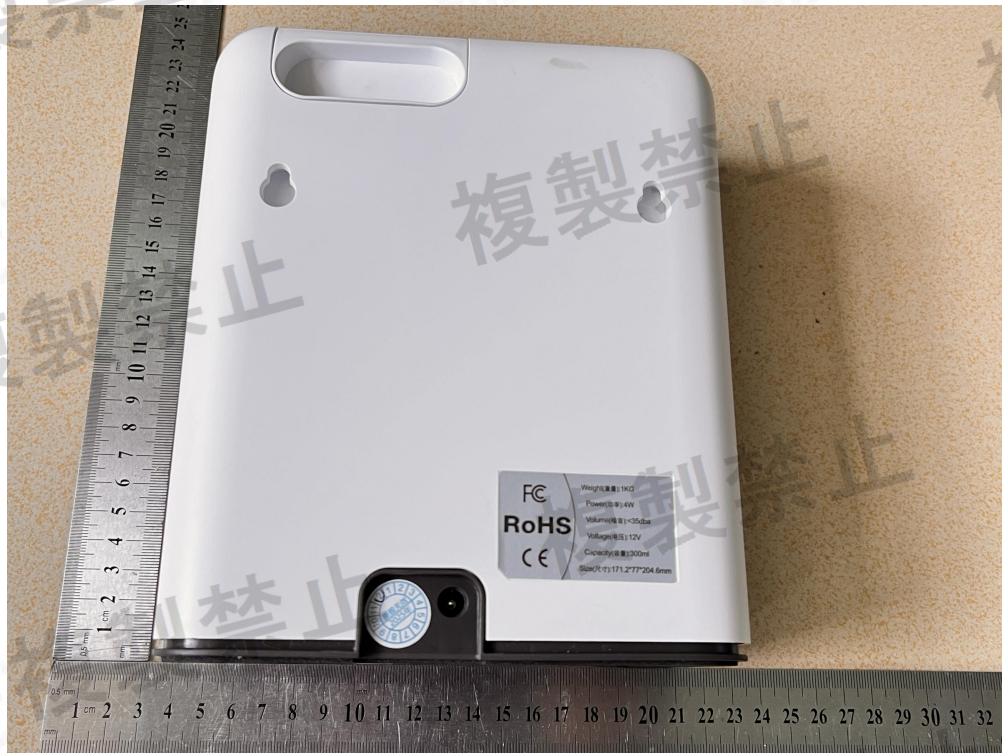
APPENDIX A
PHOTOGRAPHS OF THE TEST SETUP

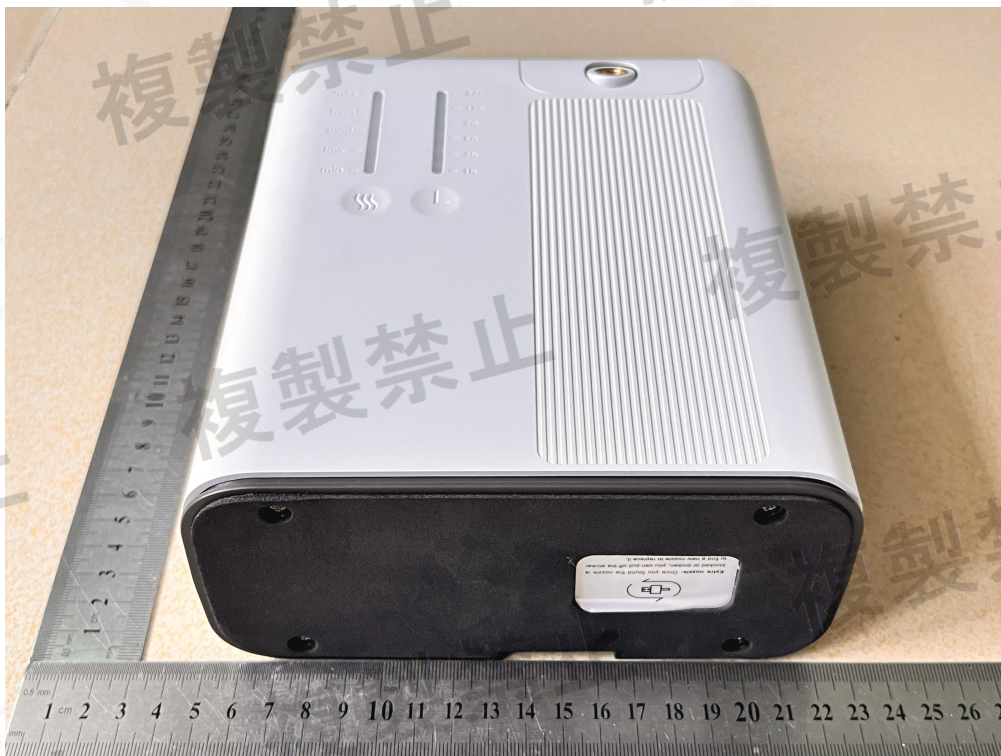
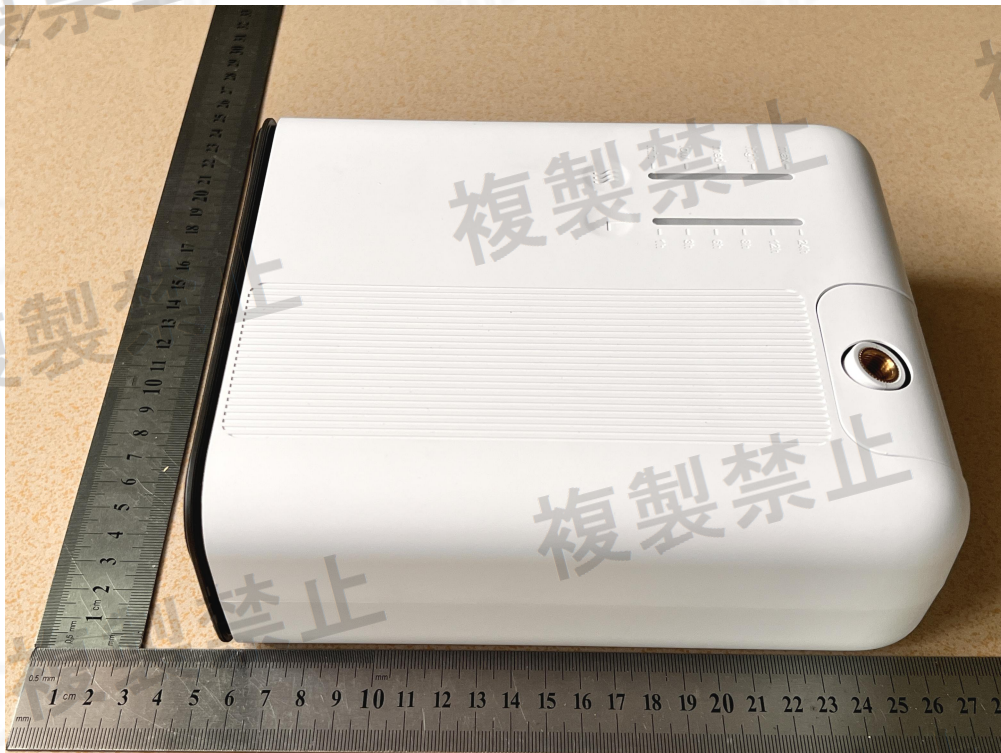


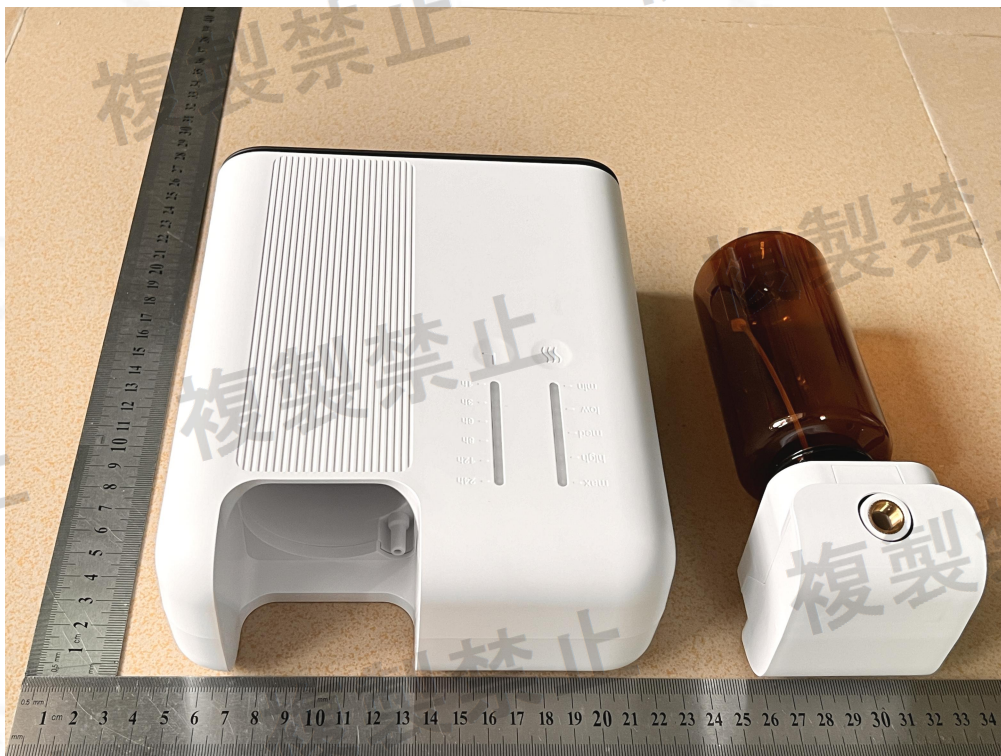
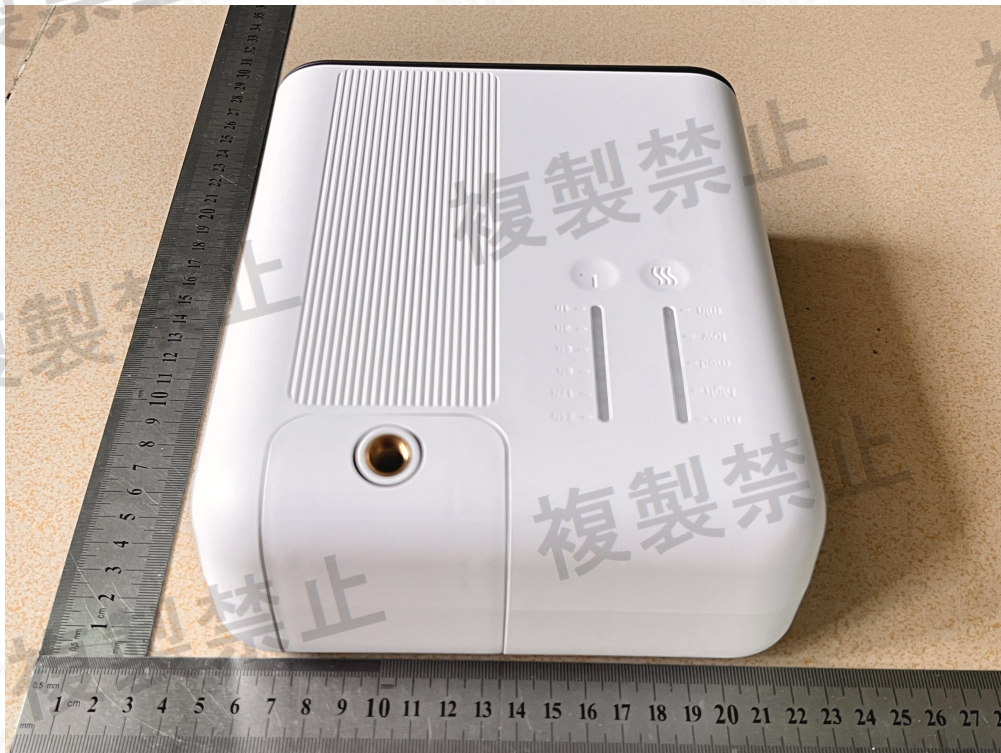


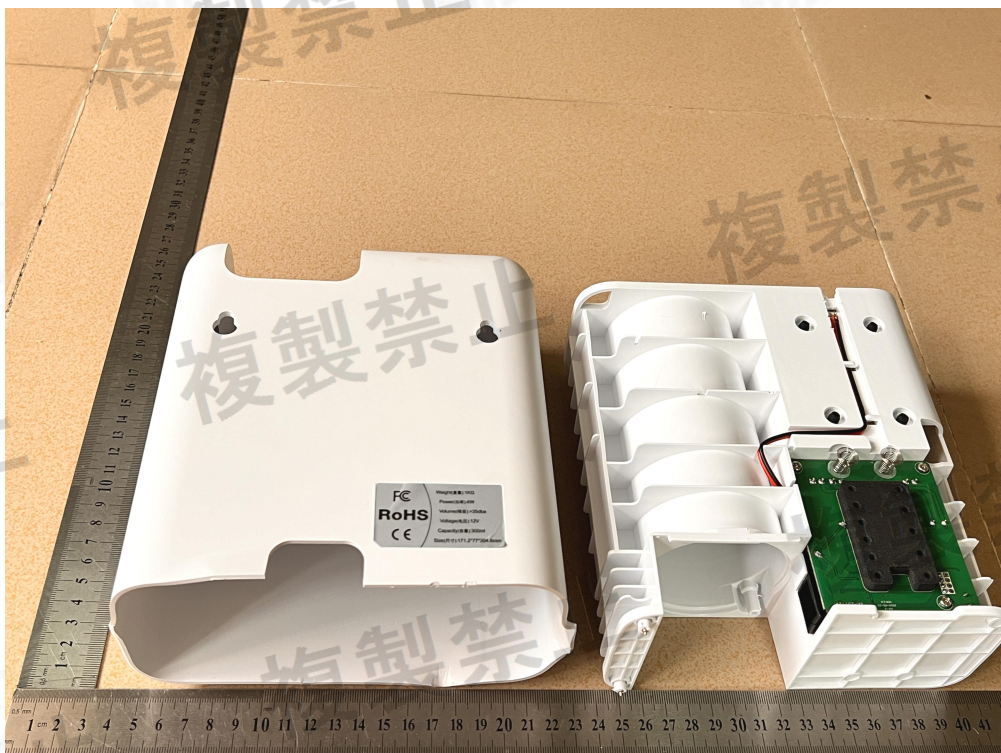
APPENDIX B
PHOTOGRAPHS OF THE EUT

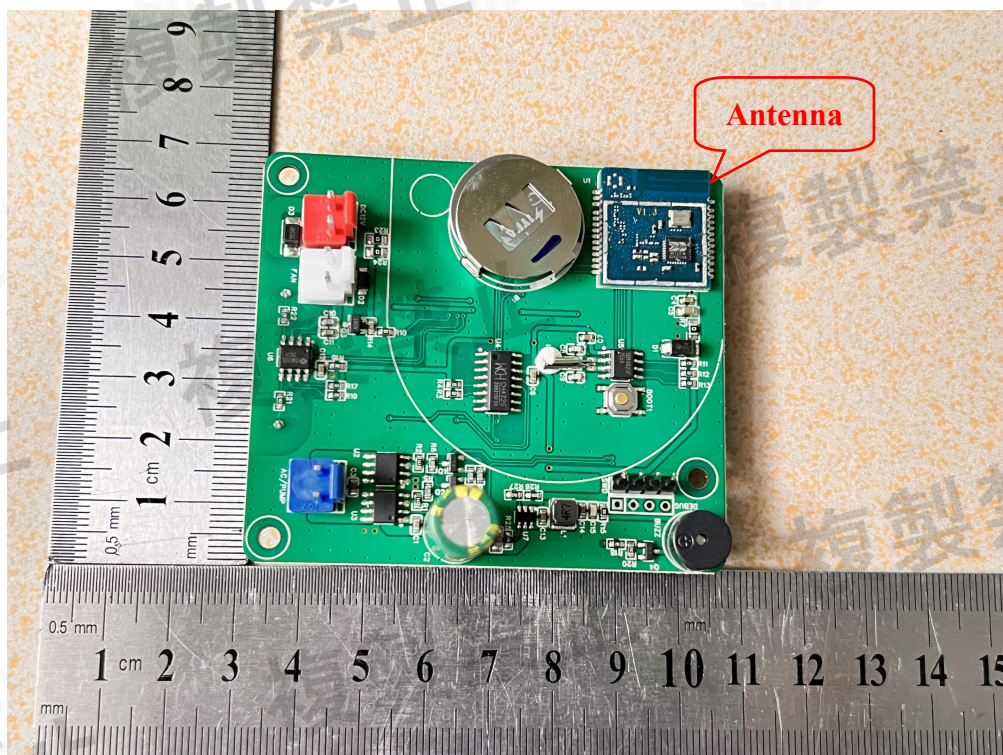
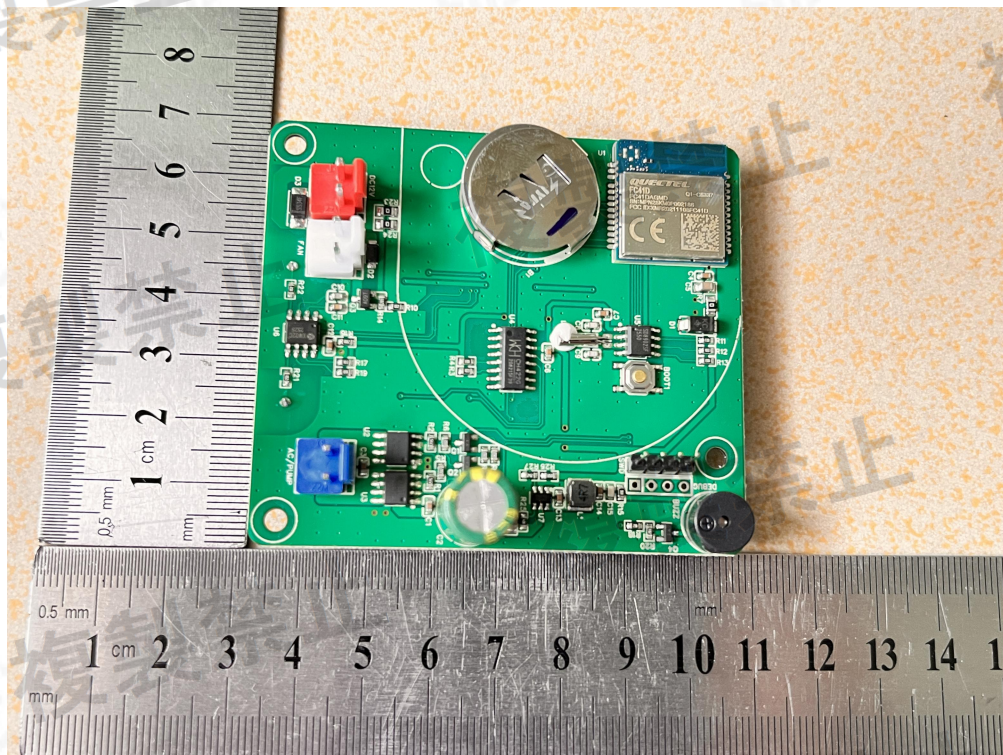


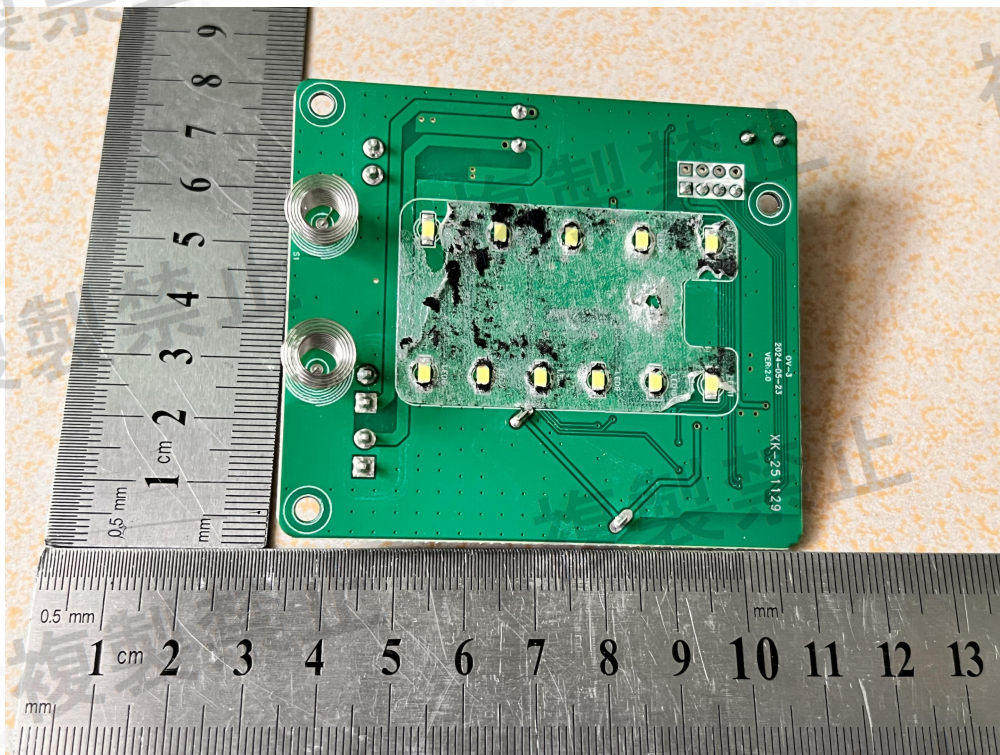












the end of report.