



TEST REPORT

Report Reference No.: TZ0191260702TRF02

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Date of issue: 2026-07-31

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Applicant's name: DREAMUS COMPANY

Address: 16 Teheran-ro 14-gil, Gangnam-gu, Seoul, Republic of Korea

Manufacturer's name: DREAMUS COMPANY

Address: 16 Teheran-ro 14-gil, Gangnam-gu, Seoul, Republic of Korea

Test specification:
Standard: MIC Notice No.88 Appendix No.43
Article 2, paragraph 1, item 19
TRF Originator: SZTZ
Master TRF: Dated 2024-08

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Test item description: DOH KYUNG SOO OFFICIAL LIGHT STRAP KEYRING

Trade Mark: /

Model/Type reference: DKS-LSK

Ratings: DC 3V by 1.5V*2 batteries

Result: PASS





**** Report Revise Record ****

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	2026-07-31	Valid	Initial release





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1. Test Standards and description

1.1. Test Standards

The tests were performed according to following standards:

Regulation: Item I of Article 49-20 and the relevant Articles of the ordinance of Regulatory Radio Equipment.

Test Method: (1)the test method suppressed on is equal to Appendix No.43 of MIC Nofication No 88

1.2. Test description

Test Item	Test Method	Result
Antenna Power	Appendix No.43 of MIC Nofication No 88 section 6	Pass
Frequency Error	Appendix No.43 of MIC Nofication No 88 section 3	Pass
Interference prevention function	Appendix No.43 of MIC Nofication No 88 section 12	Pass
99% Occupied bandwidth	Appendix No.43 of MIC Nofication No 88 section 4	Pass
Spurious Emissions Intensity	Appendix No.43 of MIC Nofication No 88 section 5	Pass
Limit of secondary radiated emissions	Appendix No.43 of MIC Nofication No 88 section 7	Pass
Hopping Frequency Dwell Time Measurement	Appendix No.43 of MIC Nofication No 88 section 13	N/A
Transmission Antenna Gain (EIRP antenna power)	Appendix No.43 of MIC Nofication No 88 section 10	Pass
Transmission Radiation Angle Width (3db Beamwidth)	Appendix No.43 of MIC Nofication No 88 section 11	N/A

N/A: means not applicable





2. Summary

2.1. General Remarks

Date of receipt of test sample : 2026-07-21
Testing commenced on : 2026-07-21
Testing concluded on : 2026-07-30

2.2. Product Description

Name of EUT	: DOH KYUNG SOO OFFICIAL LIGHT STRAP KEYRING
Trade Mark	: /
Model/Type reference	: DKS-LSK
List Model	: DKS-LSK
Hardware Version	: V1.0
Software Version	: V1.0
Power supply	: DC 3V by 1.5V*2 batteries

2.3. Wireless Function Tested in this report

Bluetooth[BLE]	
Modulation	: GFSK
Operation frequency	: 2402MHz~2480MHz
Channel number	: 40
Channel separation	: 2MHz
Antenna type	: PCB antenna
Antenna gain	: -2.96 dBi

Operation Frequency List:

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





2.4. EUT operation mode

The EUT has been tested under typical operating condition. The Applicant provides software(Direct Test Mode v2.4.1at power level 8) to control the EUT for staying in continuous transmitting and receiving mode for testing.

2.5. Test Voltage

Voltage Fluctuation Test	Normal Voltage	High Voltage +10% of Normal Voltage	Low Voltage -10% of Normal Voltage
Input To EUT	DC 3.0V	DC 3.3V	DC 2.7V
Output To RF Module	DC 3.3V	DC 3.3V	DC 3.3V
Voltage Variation (%)	--	0%	0%

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 +/- 10%, if output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/-1%. Exempt extremely high and low supply voltage condition test, EUT only operated in normal voltage to test all regulations.





2.6. EUT configuration

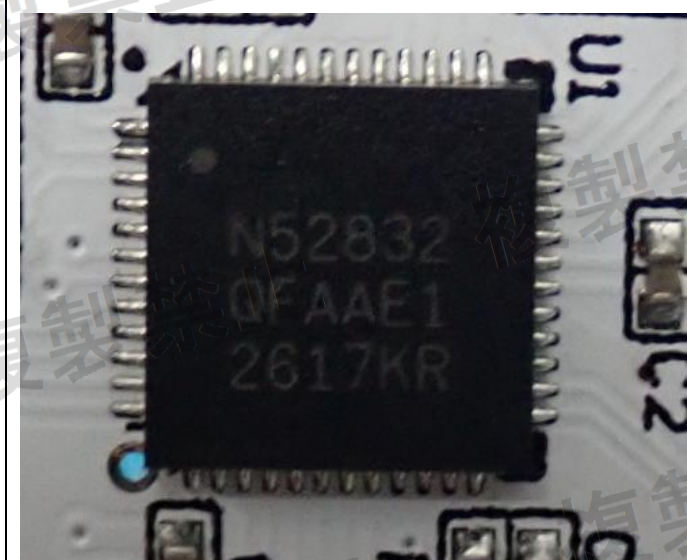
(1) The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- - supplied by the lab

(2) Protective Structure

- ☐ The exterior cover was sealed by Special screws, it can not be easily open.
- ☐ The enclosure was sealed with strong adhesive glue, it can not be easily open.
- ☐ All high-frequency section and modulation section was packaged in one IC, and shield by metal shield, it can not be easily open.
- ☐ The top and the bottom is connected with strong Buckles, it can not be easily open.
- ☒ Others: The RF/modulation IC has 48 terminals with a 0.5 mm terminal pitch, which meets the requirements of 10 or more terminals and 1.5 mm or less terminal pitch specified for the structure of difficulty to open the casing.

Terminal pitch: 0.5mm; Number of the terminals: 48



2.7. Modifications

No modifications were implemented to meet testing criteria.





3. Test Environment

3.1. Address of the test laboratory

Shenzhen Tongzhou Testing Co.,Ltd

1st Floor, Building 1, Haomai High-tech Park, Huating Road 387, Dalang Street, Longhua, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 (2014) and CISPR Publication 22.

3.2. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Tongzhou Testing Co.,Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Tongzhou Testing Co.,Ltd is reported:

Test Items	Measurement Uncertainty	Notes
Frequency stability	25 Hz	(1)
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emission 9KHz-12.75 GHz	1.60 dB	(1)
Radiated spurious emission 9KHz-12.75 GHz	2.20 dB	(1)
Conducted Emission 9KHz-30MHz	3.39 dB	(1)
Radiated Emission 30~1000MHz	4.24 dB	(1)
Radiated Emission 1~18GHz	5.16 dB	(1)
Radiated Emission 18-40GHz	5.54 dB	(1)
Occupied Bandwidth	-----	(1)
Emission Mask	-----	(1)
Modulation Characteristic	-----	(1)
Transmitter Frequency Behavior	-----	(1)

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.





3.3. Equipments Used during the Test

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Latest Cal.	Next Cal.
1	MXA Signal Analyzer	Keysight	N9020A	MY52091623	2025-12-31	2026-12-30
2	EMI Test Receiver	R&S	ESCI	100849/003	2025-12-31	2026-12-30
3	DC power supply	Chroma	RXN-305D	62012PD02811	2025-12-31	2026-12-30
4	Power Meter	Agilent	NRVD	835843/014	2025-12-31	2026-12-30
5	Wideband Radio Communication Tester	R&S	CMW500	101855	2025-12-31	2026-12-30
6	Oscilloscope	Tektronix	TDS2024C	C044925	2025-12-31	2026-12-30
7	Horn Antenna	schwarzbeck	BBHA 9120D	01989	2025-10-18	2028-10-17
8	Controller	MF	MF7802	N/A	N/A	N/A
9	Horn Antenna	ETS	3117	00218874	2025-10-18	2028-10-17
10	Signal Generator	Keysight	N5182A	MY4620709	2025-12-31	2026-12-30

Full Name of calibration company: Guangzhou Lisai Metrology & Test co., Ltd.

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

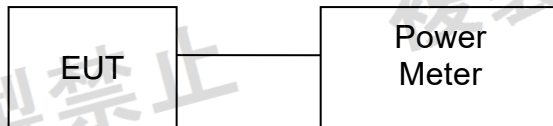




4. Test conditions and Results

4.1. Antenna Power

TEST CONFIGURATION



TEST PROCEDURE

1. EUT have transmitted continuous maximum power..
2. Frequency hopping system or combined systems of direct spread and frequency hopping
 - i. Connect the high frequency Power Meter or Spectrum Analyzer to the output of the attenuator and measure the total power (without bandwidth limitation)
 - ii. Divide the total power by the spread bandwidth to find the “average” power per MHz.
The average power per MHz is equal to the power meter value dBm + cable loss dB.
 - iii. Set the antenna power as follows:
 - Continuous waves: value in ii.

LIMIT

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





TEST RESULTS

Antenna Power							
Test Condition	Test Mode	Antenna	Freq (MHz)	Result (dBm)	Result (mW)	Limit (mW)	Verdict
NTNV	BLE_1M	Ant1	2402	-3.02	0.4989	≤10	PASS
			2440	-1.83	0.6561	≤10	PASS
			2480	-1.52	0.7047	≤10	PASS
	BLE_2M	Ant1	2402	-3.99	0.3990	≤10	PASS
			2440	-2.75	0.5309	≤10	PASS
			2480	-2.71	0.5358	≤10	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Freq (MHz)	Power (mW)	RatedPower (mW)	Result (%)	Limit (%)	Verdict
NTNV	BLE_1M	Ant1	2402	0.4989	10	-95.01	≤20	PASS
			2440	0.6561	10	-93.44	≤20	PASS
			2480	0.7047	10	-92.95	≤20	PASS
	BLE_2M	Ant1	2402	0.3990	10	-96.01	≤20	PASS
			2440	0.5309	10	-94.69	≤20	PASS
			2480	0.5358	10	-94.64	≤20	PASS

EIRP							
Test Condition	Test Mode	Antenna	Freq (MHz)	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
NTNV	BLE_1M	Ant1	2402	-3.02	-5.98	≤12.14	PASS
			2440	-1.83	-4.79	≤12.14	PASS
			2480	-1.52	-4.48	≤12.14	PASS
	BLE_2M	Ant1	2402	-3.99	-6.95	≤12.14	PASS
			2440	-2.75	-5.71	≤12.14	PASS
			2480	-2.71	-5.67	≤12.14	PASS

Remark:

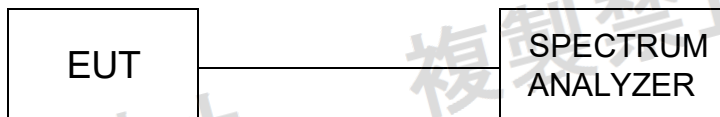
- 1, The item was tested at 25℃ and 55% humidity condition;
- 2, Result = the power meter value + cable loss





4.2. Frequency Error

TEST CONFIGURATION



TEST PROCEDURE

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

EUT Condition: non-modulation

Spectrum Condition:

Frequency: test frequency

Span:1MHz

Rbw:10KHz

Vbw:10KHz

Sweep time:Auto

Dectector mode: Positive peak

Indication mode: max hold

LIMIT

Tolerance of frequency shall be ± 50 ppm.

TEST RESULTS

Test Condition	Test Mode	Antenna	Freq [MHz]	CenterFreq [MHz]	Result [ppm]	Limit [ppm]	Verdict
NTNV	CW	Ant1	2402	2401.999	-0.41632	± 50	PASS
			2440	2439.999	-0.40984	± 50	PASS
			2480	2479.999	-0.40323	± 50	PASS

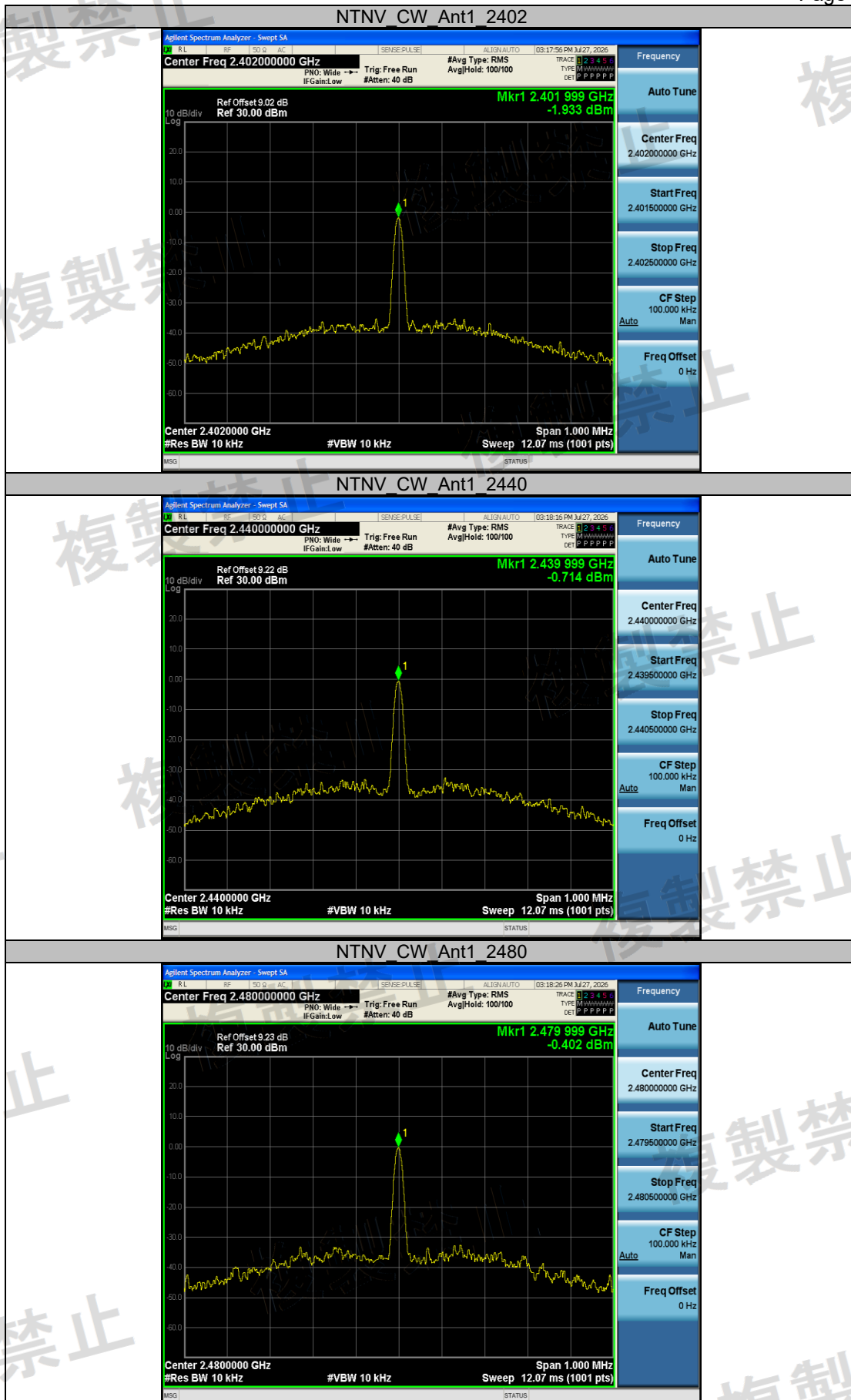
Note: 1. The test results including the cable lose.

2. The item was tested at 25 °C and 55% humidity condition;

3.All condition has been testd,list the worst case in this item

Test plot as follows:







4.3. Interference Prevention Function

The device consists of the Antenna and transmitter module. Component transmitter module also can use the protocol function to protect interference come from outside.

TEST EQUIPMENT

CMW500

TEST SOFTWARE

N/A

TEST PROCEDURE

1. Open the Bluetooth Signaling application on the CMW500.
2. Scan for EUT, and read the MAC address.

TEST RESULTS

The unit does meet the requirements.

MAC Address:65:F5:EA:4F:2F:9E





4.4. Occupied Bandwidth (99%)

TEST CONFIGURATION



TEST PROCEDURE

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

EUT Condition: modulation

Spectrum Condition:

Frequency: Center frequency in the band to be used

Span:4MHz

RBW:30KHz

VBW:30KHz

Sweep time:Auto

Dectector mode: Positive peak

Indication mode: max hold

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.

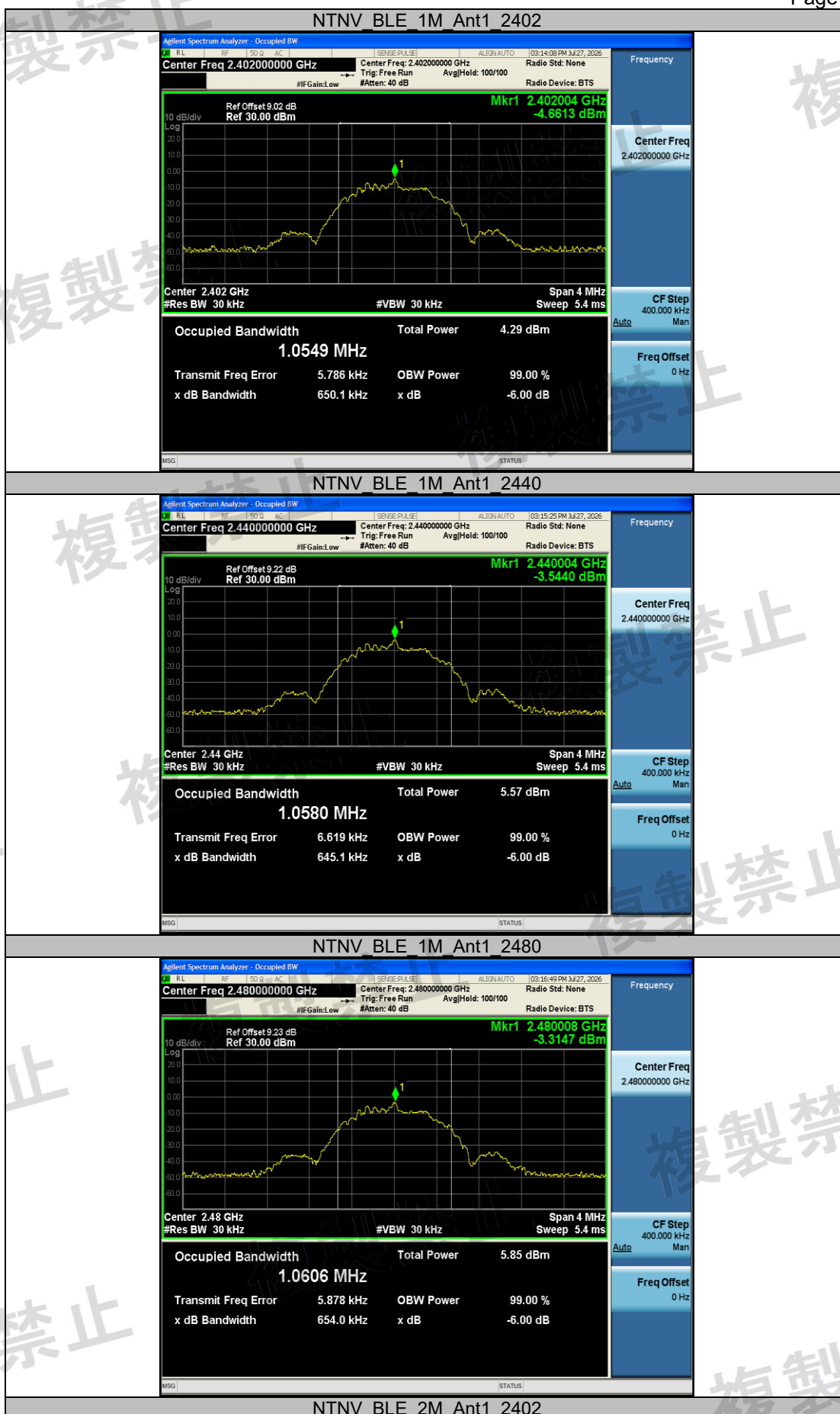
TEST RESULTS

Test Condition	Test Mode	Antenna	Freq (MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	1.055	≤26	PASS
			2440	1.058	≤26	PASS
			2480	1.061	≤26	PASS
	BLE_2M	Ant1	2402	2.056	≤26	PASS
			2440	2.062	≤26	PASS
			2480	2.076	≤26	PASS

- Note:
1. The test results including the cable lose.
 2. The item was tested at 25℃ and 55% humidity condition;
 - 3.All condition has been testd,list the worst case in this item

Test plot as follows:







NTNV BLE 2M Ant1 2440



NTNV BLE 2M Ant1 2480





4.5. Spurious emission intensity

TEST CONFIGURATION



TEST PROCEDURE

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

EUT Condition: modulation

Spectrum Condition:

Frequency: 30MHz-13GHz

RBW: 1MHz (30MHz-1GHz), 1MHz(1GHz-13GHz)

VBW: 1MHz (30MHz-1GHz), 1MHz(1GHz-13GHz)

Sweep time:Auto

Dectector mode: Positive peak

Indication mode: max hold

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:

- a. $2,387 \text{ MHz} \leq f \leq 2,400 \text{ MHz}$ and $2,483.5 \text{ MHz} < f \leq 2,496.5 \text{ MHz}$ 25 $\mu\text{W}/\text{MHz}$ (-16dBm/MHz) or less
- b. $2,387 \text{ MHz} > f$ and $2,496.5 \text{ MHz} < f$ 2.5 $\mu\text{W}/\text{MHz}$ (-26dBm/MHz) or less



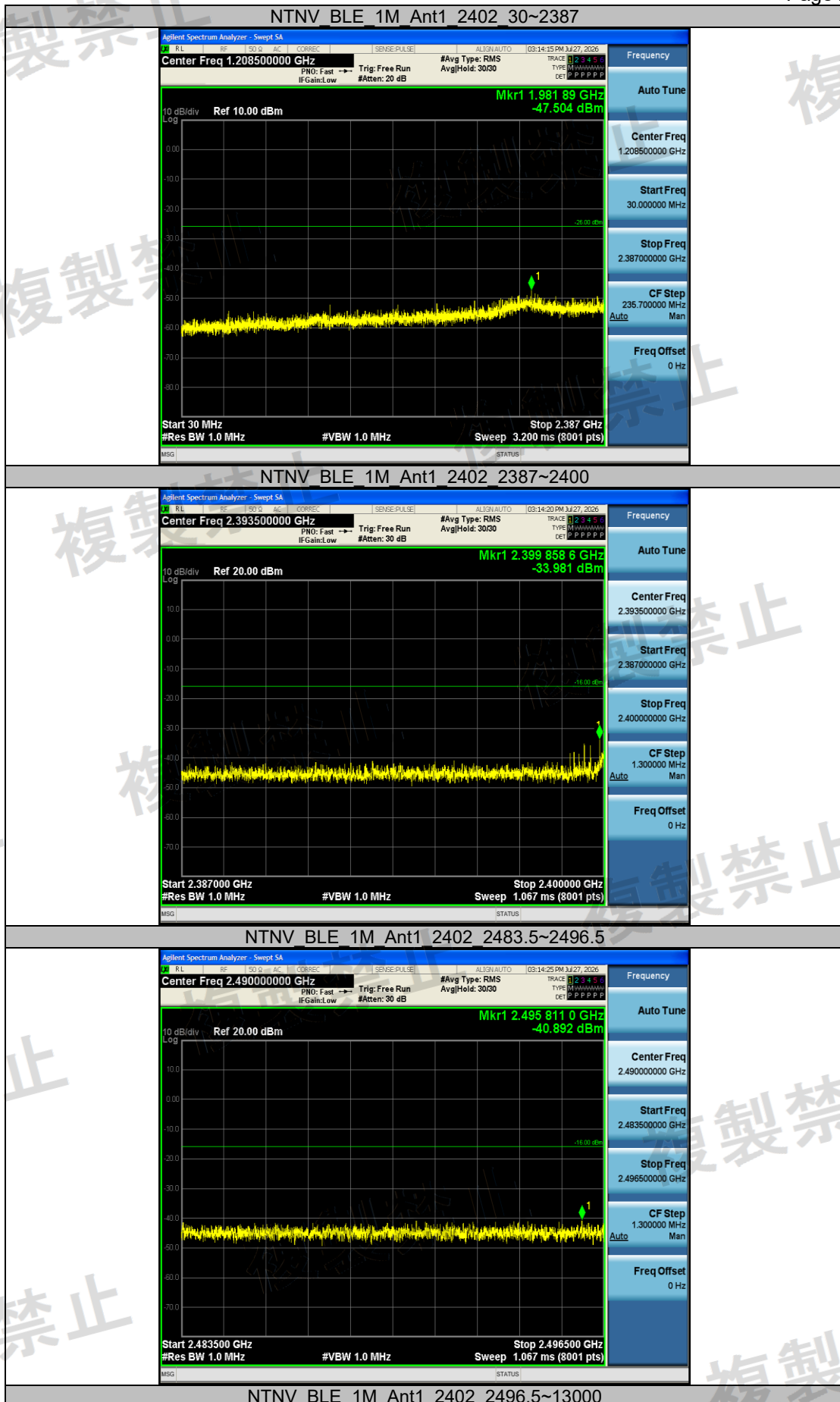


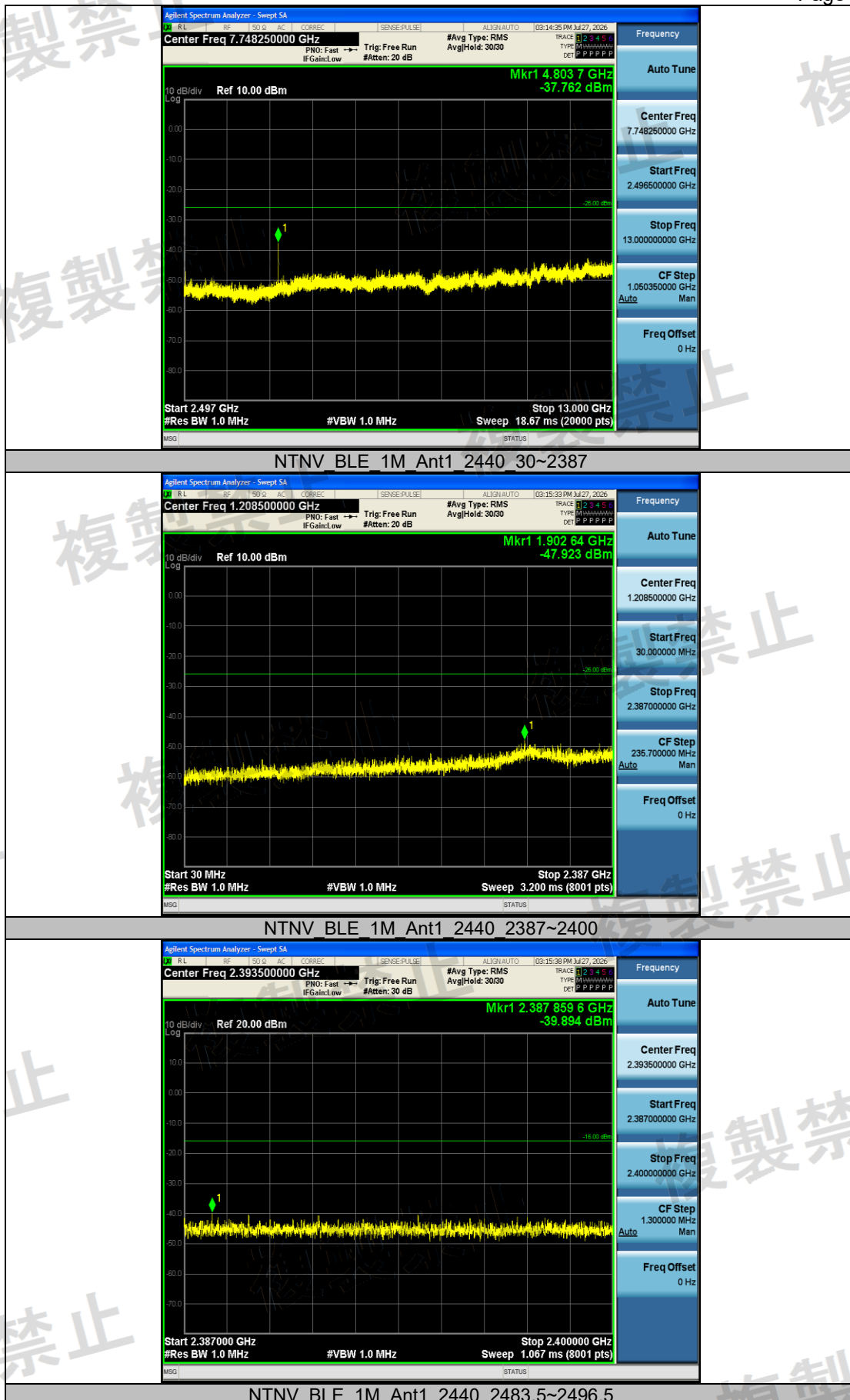
TEST RESULTS

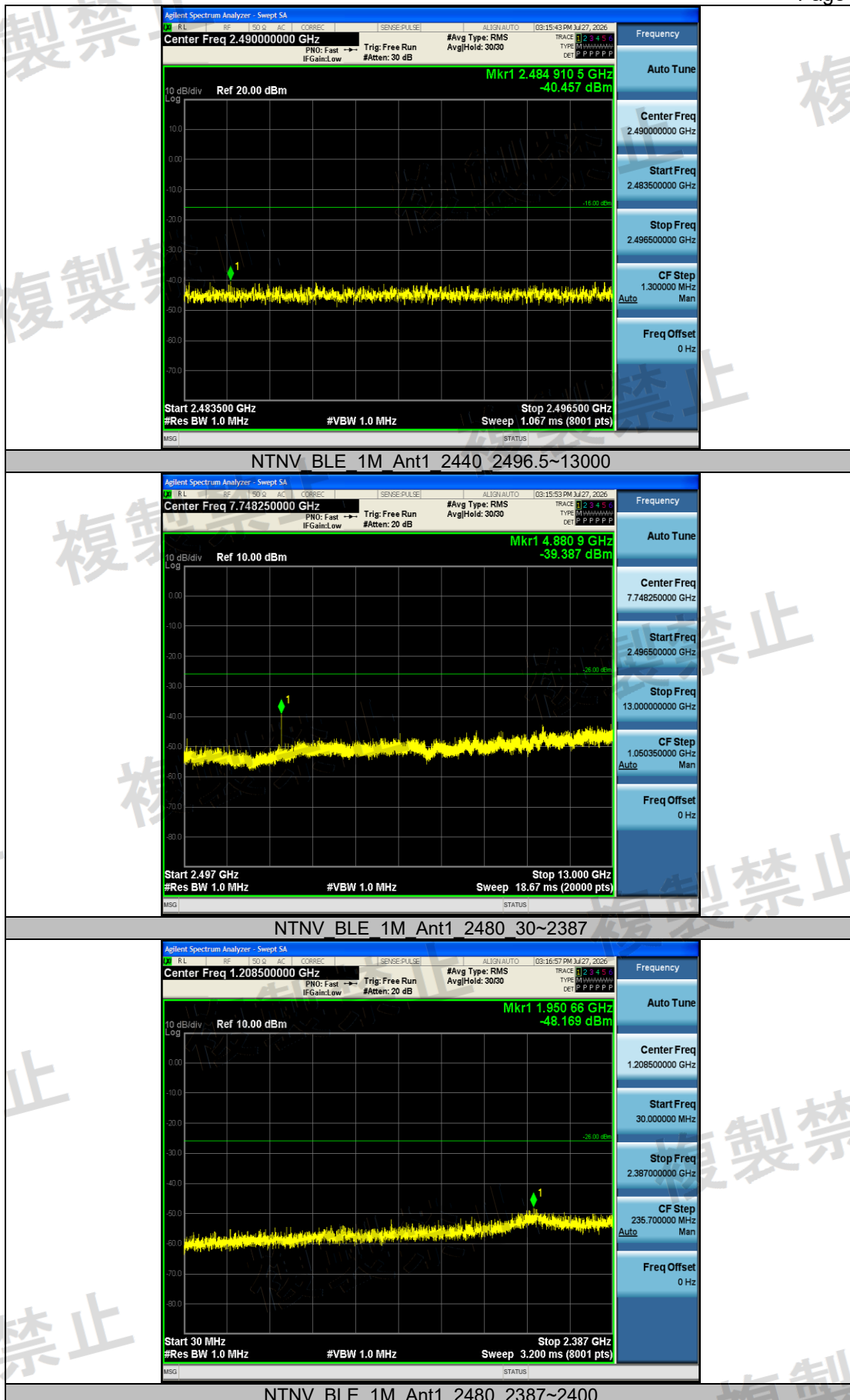
Test Condition	Test Mode	Antenna	Freq (MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	Result [μW/MHz]	Limit [μW/MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	30~2387	1981.89	-47.50	≤-26	0.01778	≤2.5	PASS
				2387~2400	2399.86	-33.98	≤-16	0.39994	≤25	PASS
				2483.5~2496.5	2495.81	-40.89	≤-16	0.08147	≤25	PASS
				2496.5~13000	4803.71	-37.76	≤-26	0.16749	≤2.5	PASS
			2440	30~2387	1902.64	-47.92	≤-26	0.01614	≤2.5	PASS
				2387~2400	2387.86	-39.89	≤-16	0.10257	≤25	PASS
				2483.5~2496.5	2484.91	-40.46	≤-16	0.08995	≤25	PASS
				2496.5~13000	4880.91	-39.39	≤-26	0.11508	≤2.5	PASS
			2480	30~2387	1950.66	-48.17	≤-26	0.01524	≤2.5	PASS
				2387~2400	2396.01	-40.21	≤-16	0.09528	≤25	PASS
				2483.5~2496.5	2483.55	-37.91	≤-16	0.16181	≤25	PASS
				2496.5~13000	12908.61	-42.86	≤-26	0.05176	≤2.5	PASS
	BLE_2M	Ant1	2402	30~2387	1920.31	-47.50	≤-26	0.01778	≤2.5	PASS
				2387~2400	2399.99	-23.91	≤-16	4.06443	≤25	PASS
				2483.5~2496.5	2485.85	-39.40	≤-16	0.11482	≤25	PASS
				2496.5~13000	4805.81	-38.59	≤-26	0.13836	≤2.5	PASS
			2440	30~2387	1958.03	-48.25	≤-26	0.01496	≤2.5	PASS
				2387~2400	2388.70	-40.94	≤-16	0.08054	≤25	PASS
				2483.5~2496.5	2488.38	-39.53	≤-16	0.11143	≤25	PASS
				2496.5~13000	4881.44	-40.42	≤-26	0.09078	≤2.5	PASS
			2480	30~2387	1948.30	-48.22	≤-26	0.01507	≤2.5	PASS
				2387~2400	2399.81	-40.33	≤-16	0.09268	≤25	PASS
				2483.5~2496.5	2483.65	-38.16	≤-16	0.15276	≤25	PASS
				2496.5~13000	4960.74	-38.36	≤-26	0.14588	≤2.5	PASS

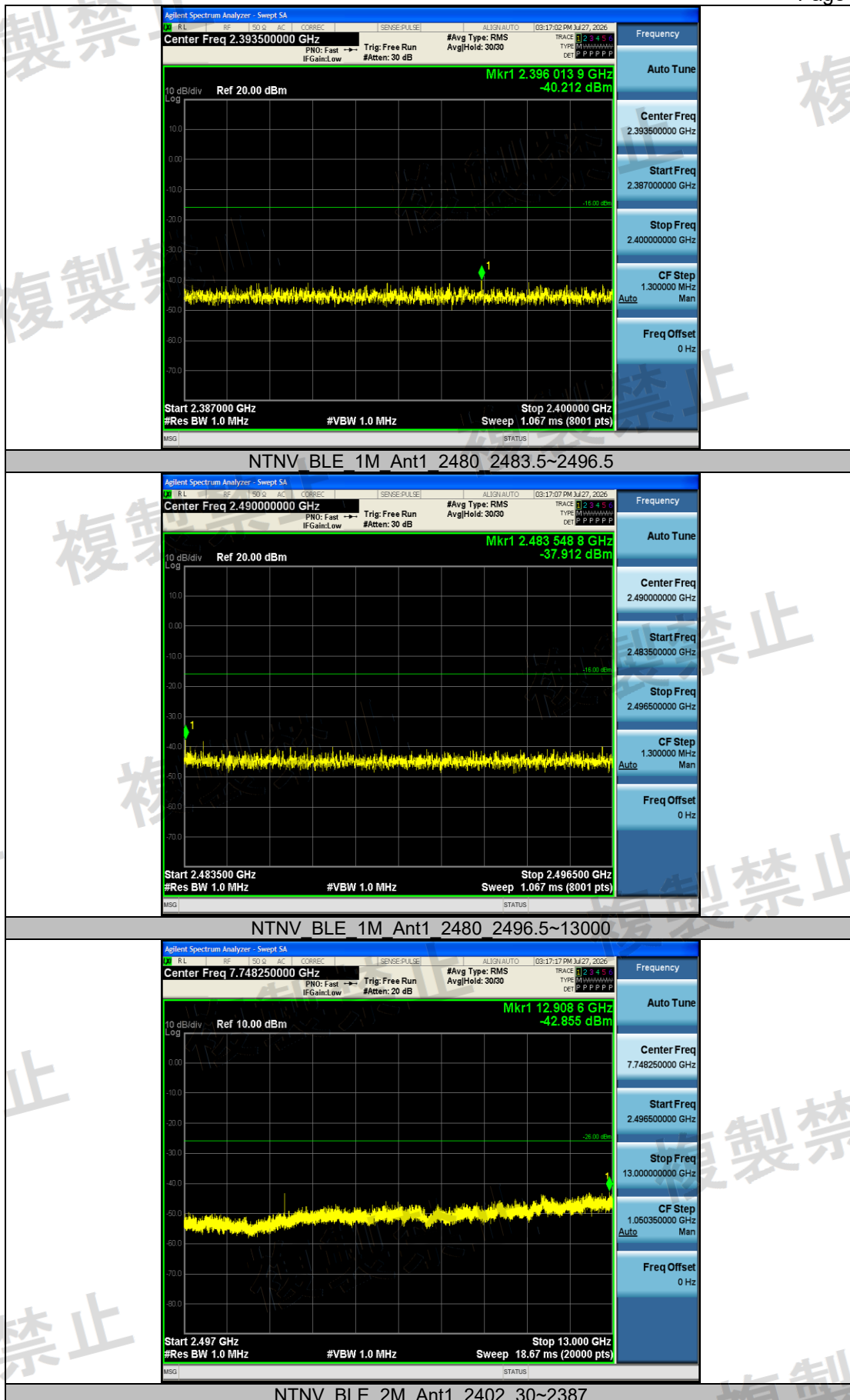
Note: 1. The product was tested at 25 °C and 55% humidity condition;
2. All condition has been tested, list the worst case in this item
3. SA set to from 2.4965GHz to 13GHz, plot shows from 2.497GHz to 13GHz as of SA's default format

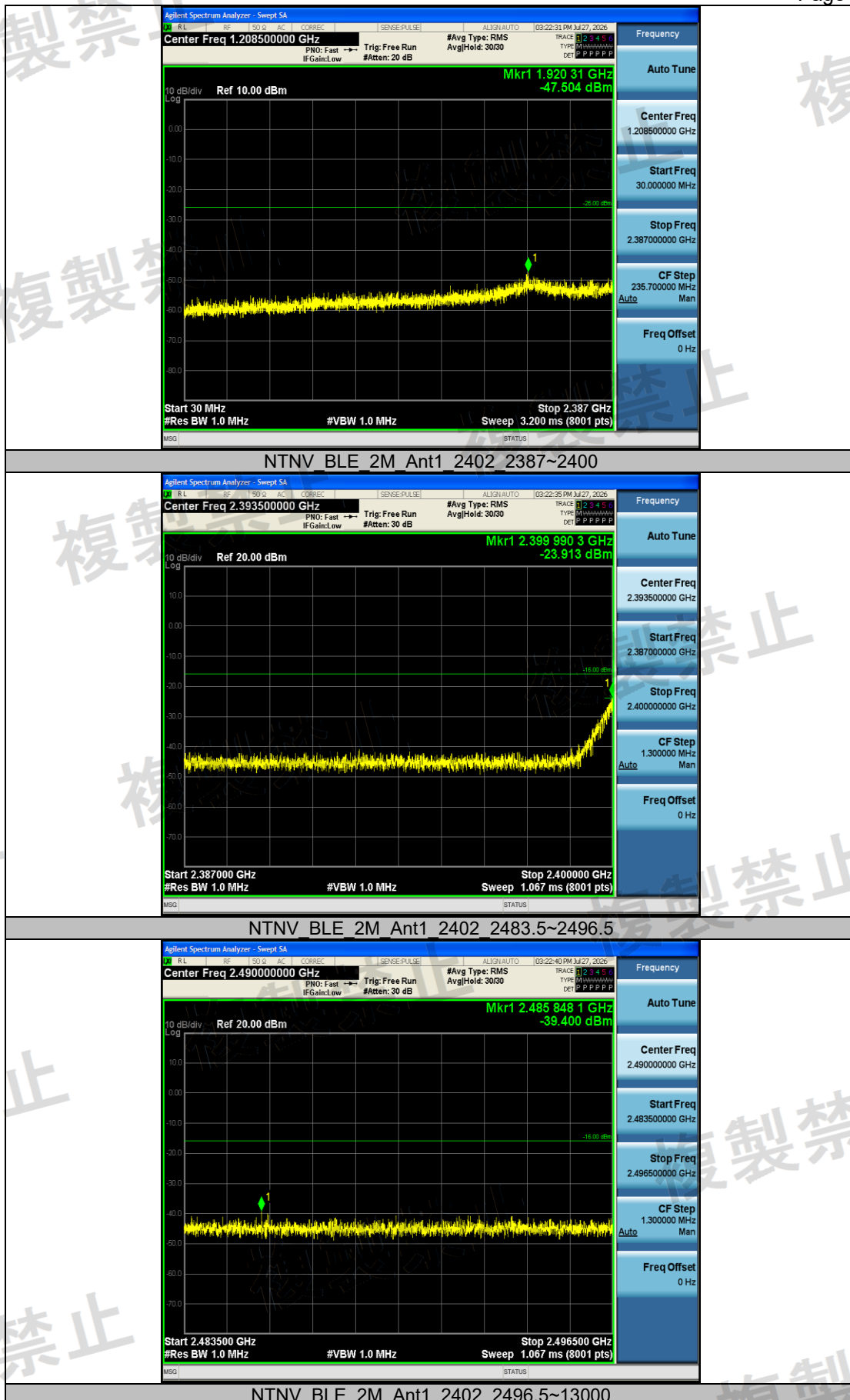


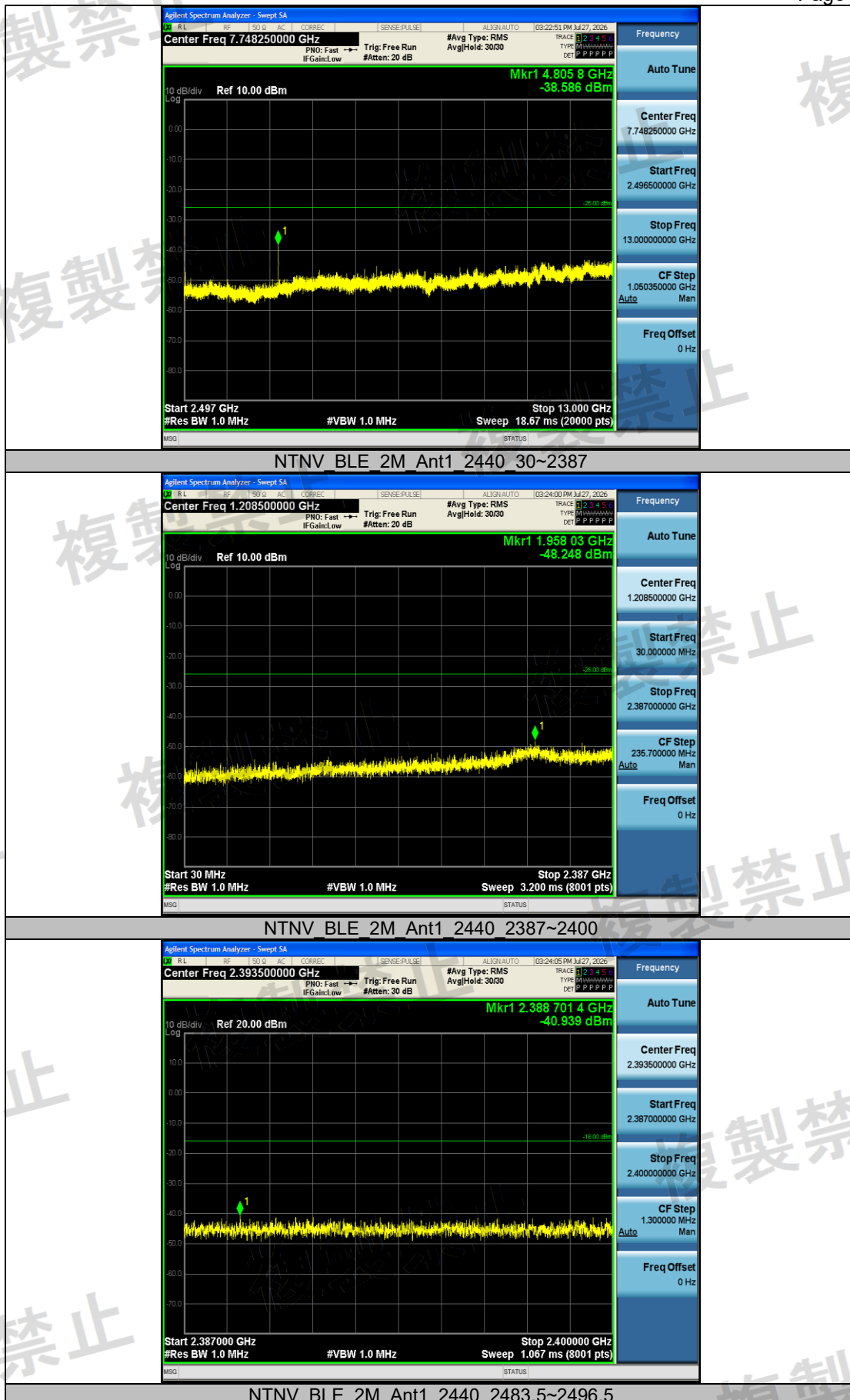


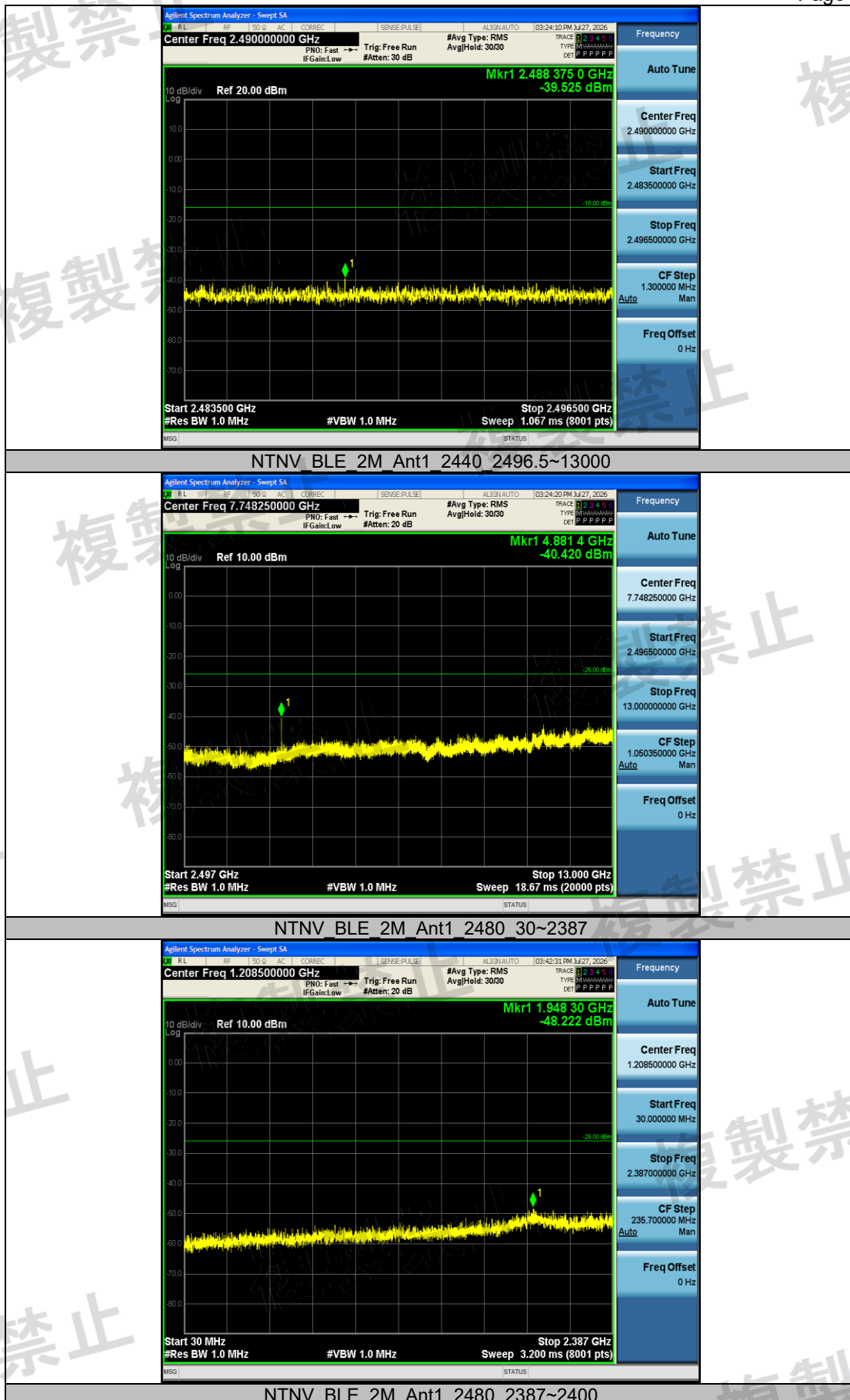


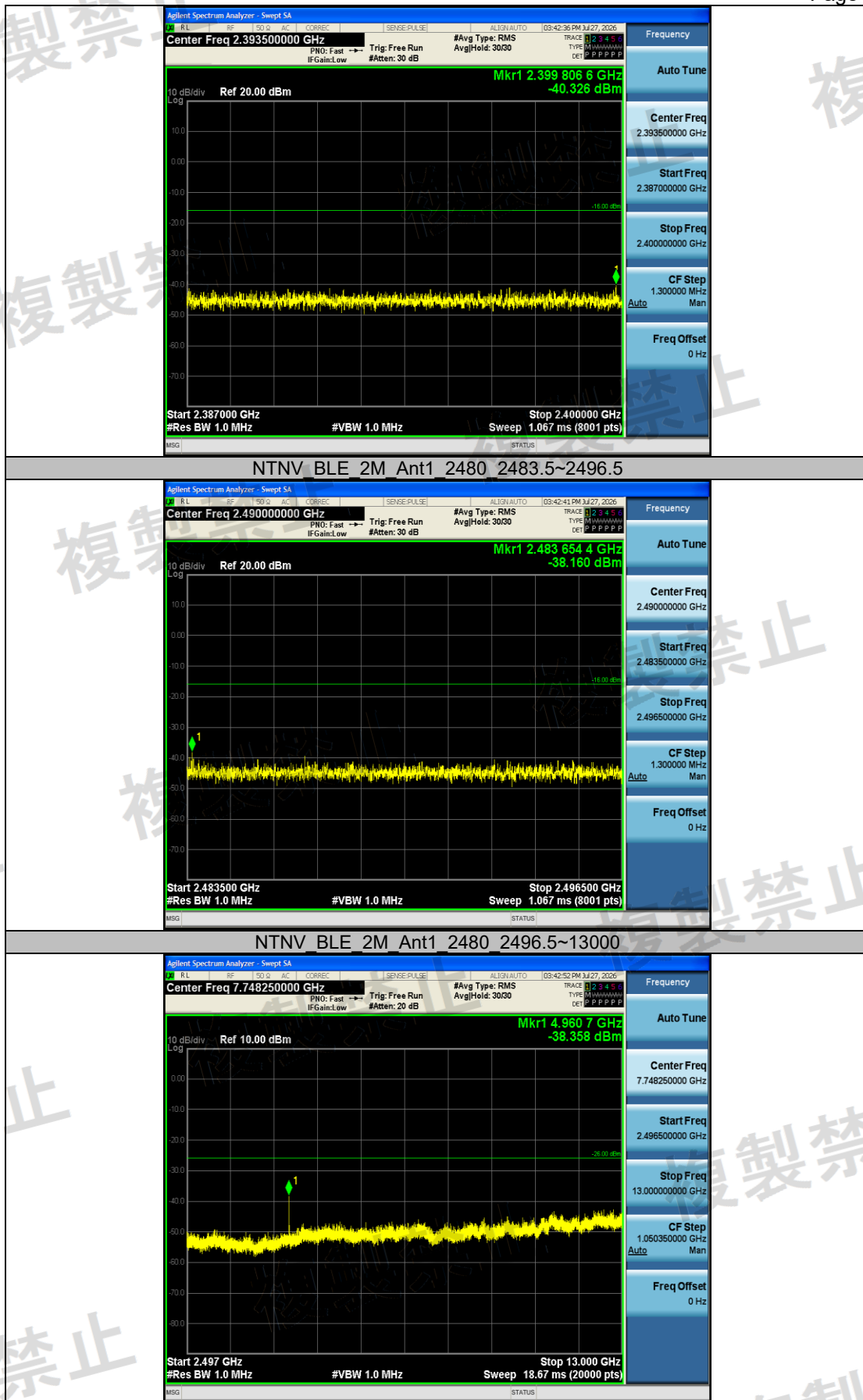








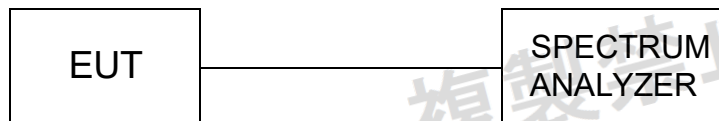






4.6. Limit of secondary radiated emissions

TEST CONFIGURATION



TEST PROCEDURE

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

EUT Condition: modulation

Spectrum Condition:

Frequency: 30MHz-13GHz

RBW:100KHz(30MHz-1GHz), 1MHz(1GHz-13GHz)

VBW:100KHz(30MHz-1GHz), 1MHz(1GHz-13GHz)

Sweep time:Auto

Dectector mode: Positive peak

Indication mode: max hold

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

TEST RESULTS

Test Condition	Test Mode	Antenna	Freq (MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	886.51	-72.81	≤-54	0.05236	≤4	PASS
				1000~13000	12723.99	-62.03	≤-47	0.62661	≤20	PASS
			2440	30~1000	758.71	-72.75	≤-54	0.05309	≤4	PASS
				1000~13000	12392.17	-62.85	≤-47	0.51880	≤20	PASS
			2480	30~1000	902.64	-72.66	≤-54	0.05420	≤4	PASS
				1000~13000	12409.57	-63.63	≤-47	0.43351	≤20	PASS
	BLE_2M	Ant1	2402	30~1000	776.29	-72.51	≤-54	0.05610	≤4	PASS
				1000~13000	12413.17	-63.11	≤-47	0.48865	≤20	PASS
			2440	30~1000	989.09	-72.19	≤-54	0.06039	≤4	PASS
				1000~13000	12443.17	-61.92	≤-47	0.64269	≤20	PASS
			2480	30~1000	783.45	-72.31	≤-54	0.05875	≤4	PASS
				1000~13000	11283.91	-63.70	≤-47	0.42658	≤20	PASS

Note: 1.The product was tested at 25℃ and 55% humidity condition;
2.All condition has been testd,list the worst case in this item

Test plot as follows:

Shenzhen Tongzhou Testing Co., Ltd.

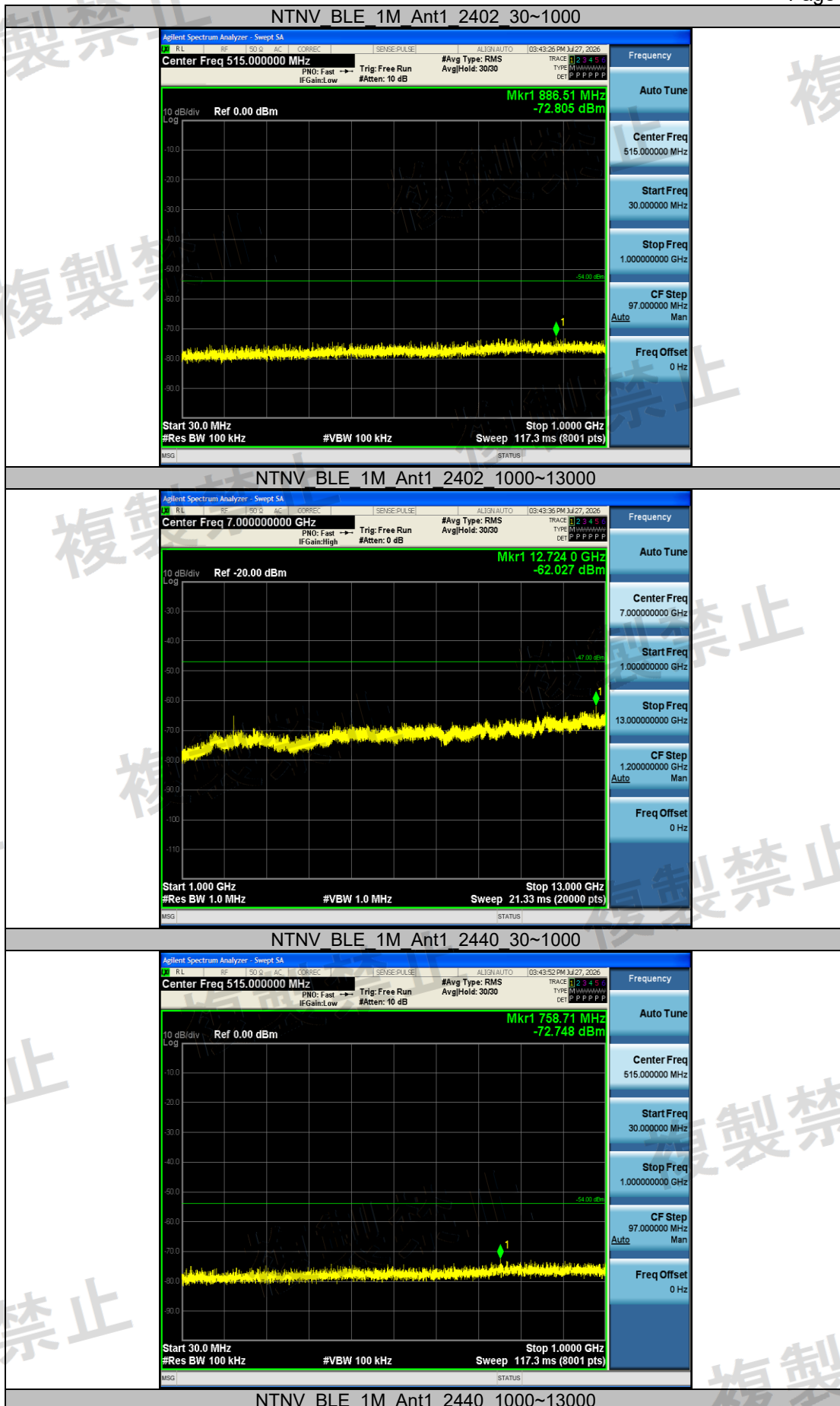
Add: 1st Floor, Building 1, Haomai High-tech Park, Huating Road 387, Dalang Street, Longhua, Shenzhen, China

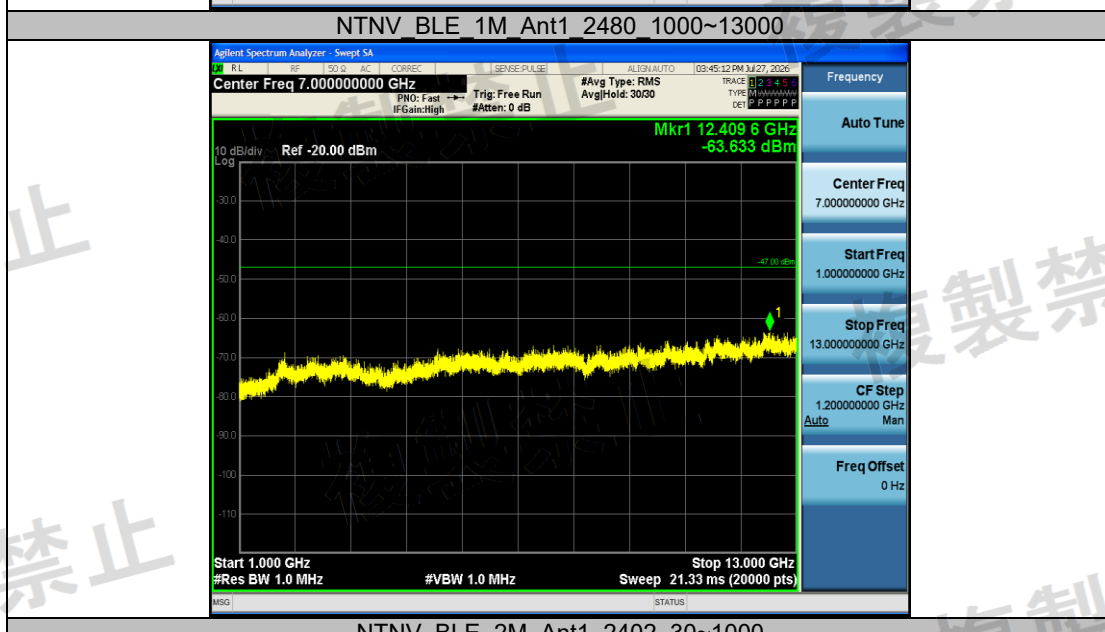
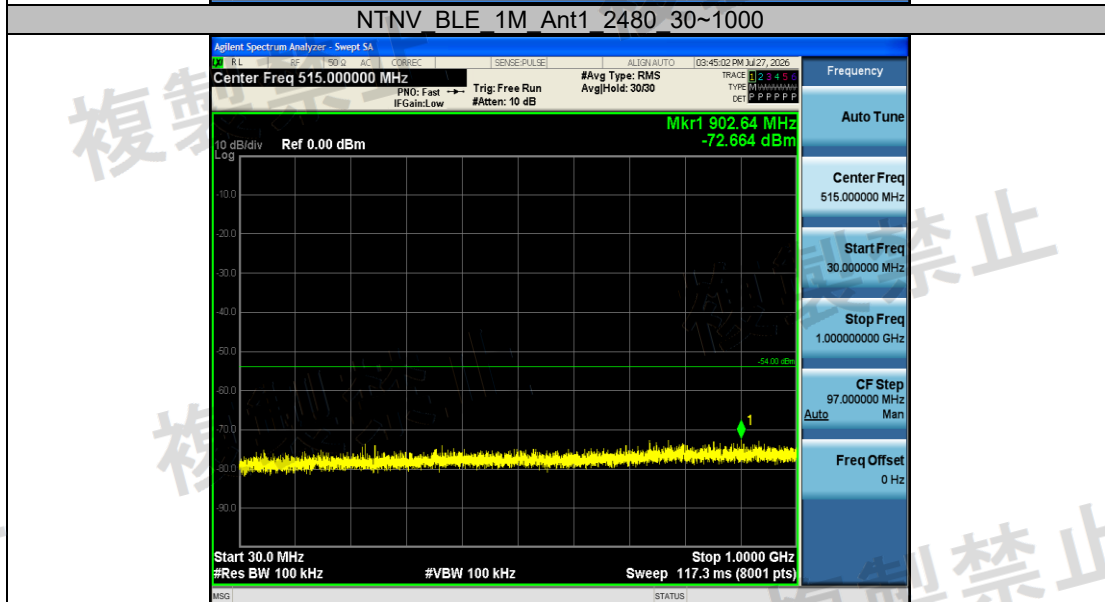
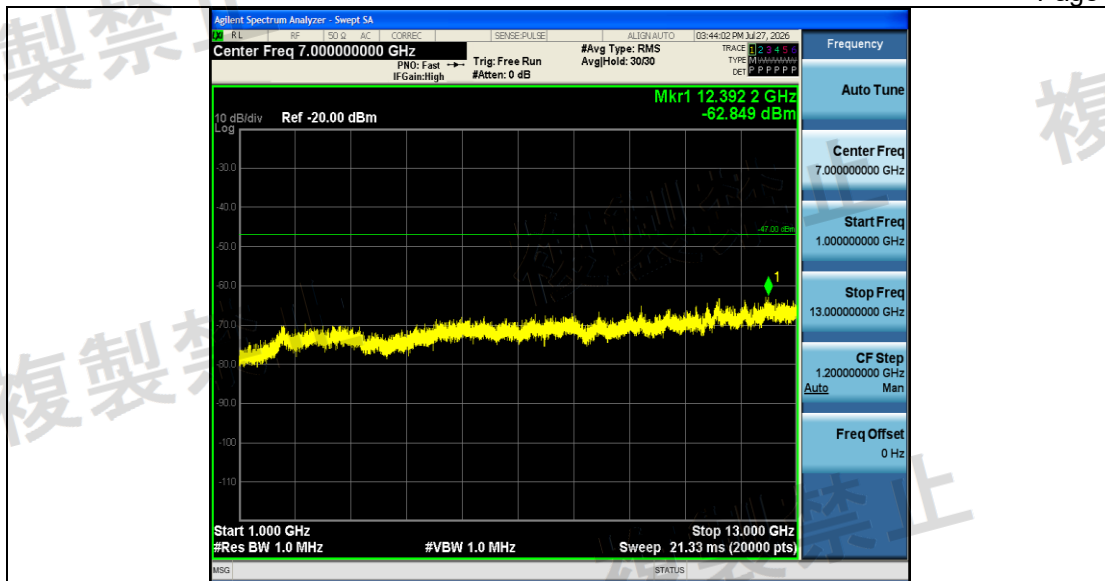
<https://www.sztz-testing.com>

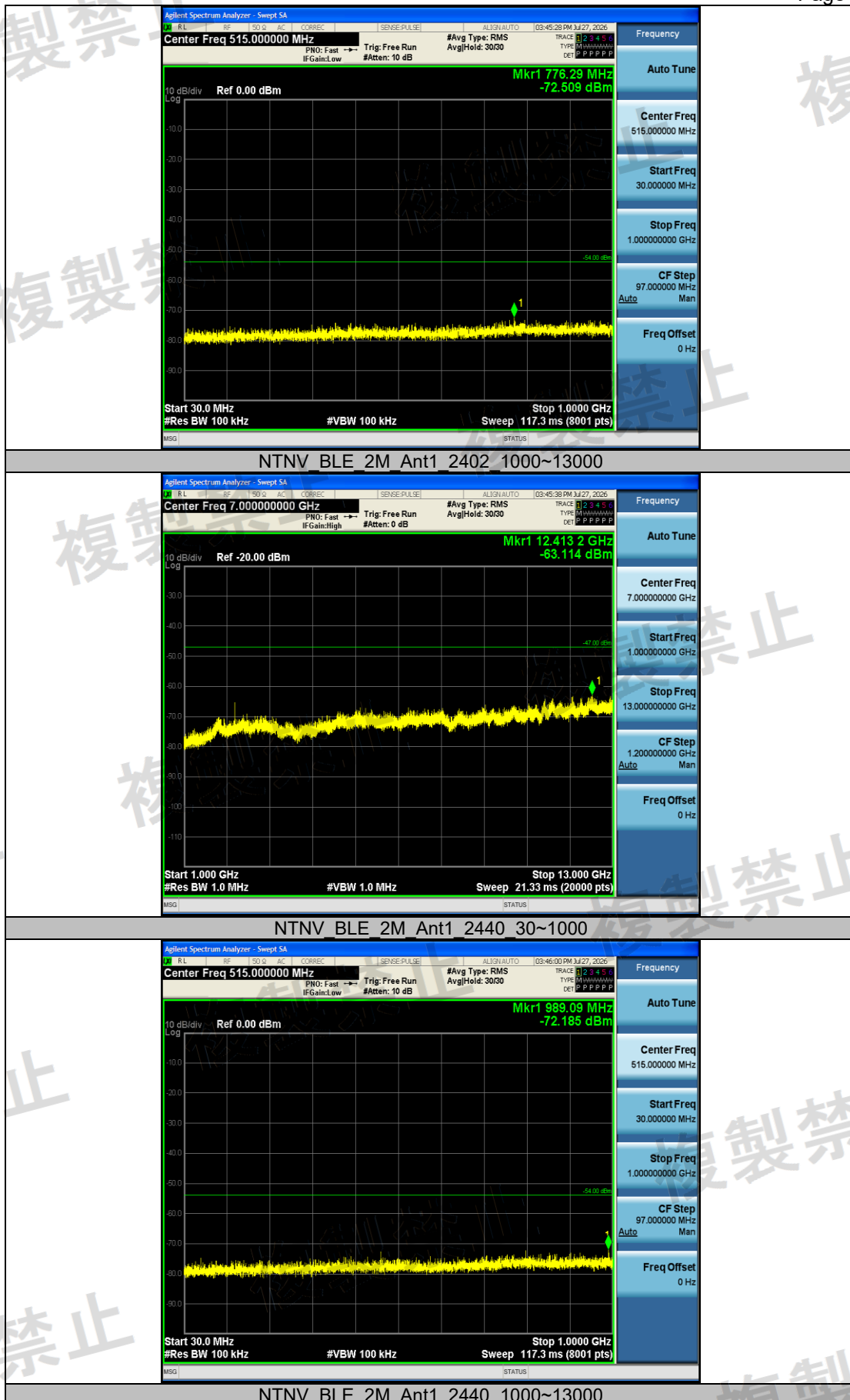
E-mail: sztz@sztz-testing.com

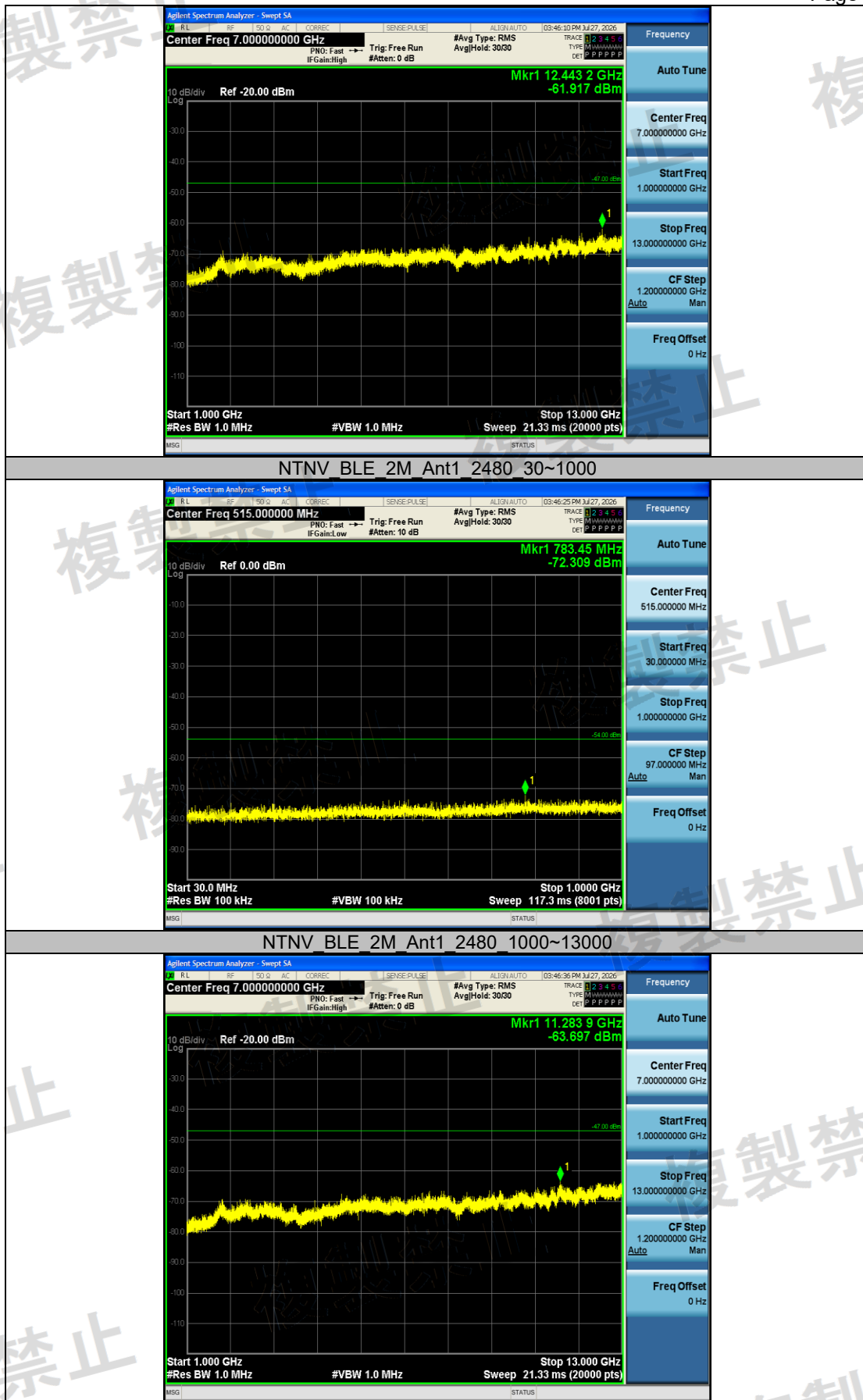
Tel: +86-755-3209 2199









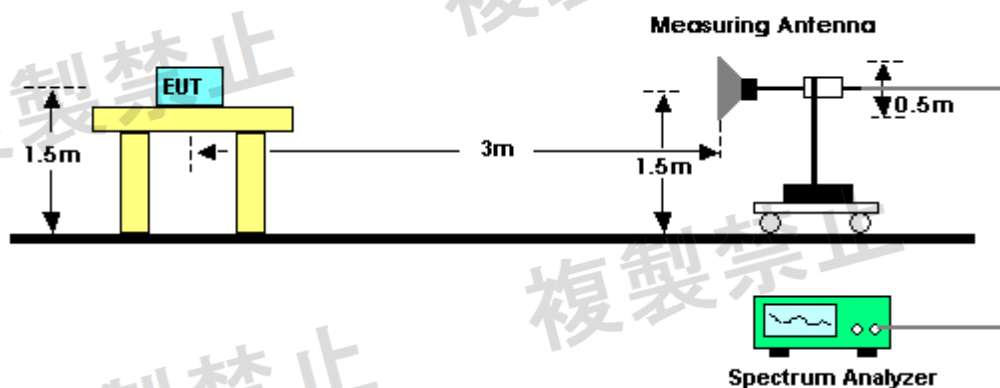




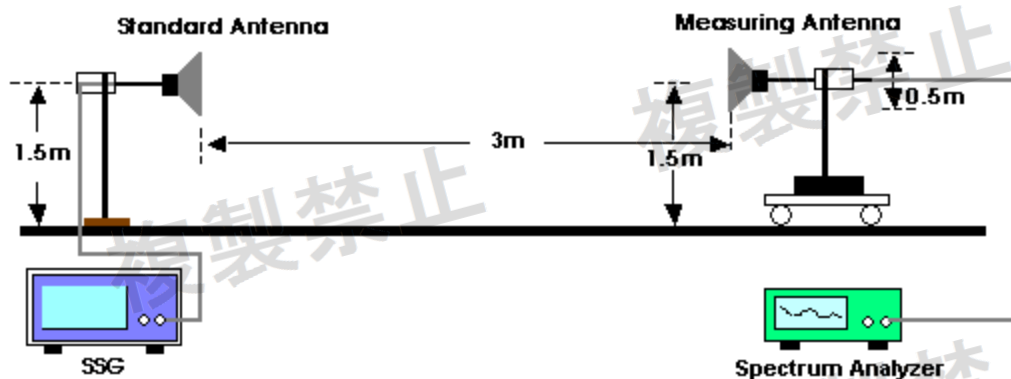
4.7. Transmission Antenna Gain (EIRP antenna power) Measurement

TEST CONFIGURATION

For EUT radiation measurement



For standard antenna measurement



TEST PROCEDURE

1. Set EUT and measuring antenna at the same height and roughly facing each other.
2. 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 the measuring antenna. The output level at the spectrum analyzer is read as "E".
3. Remove the EUT from the turn table and put the replacing antenna facing to measuring antenna at same height. Set the standard signal generator (SSG) at same frequency and transmit on then receive the signal
4. Swing the replacing antenna give a maximum receiving level.
5. Move the measuring antenna height up and down within $\pm 50\text{cm}$ of replacing antenna height and swing it to find the maximum receiving level.
6. Set SSG output power at P_t to give the equivalent output level of "E" or calculate P_t with SSG output which gives the nearest of "E" and difference ($\pm 1\text{dB}$). Record the P_t .
7. Calculate EIRP by the formula below $\text{EIRP} = G_t - L + P_t$.
Gt: gain of replacing antenna (dBi)





L: feeder loss between SSG and replacing antenna

Pt: Output power of the SSG

8. If the antenna for the EUT has circular polarization, sum of V-field and H-field will be result if measuring antenna is linear polarization.

LIMIT

Modulation system	Frequency band used	Antenna power (max.)	EIRP (max.)	
			Omnidirectional case	Directional case
DS, OFDM	2,400 - 2,483.5 MHz	10 mW/MHz	12.14 dBm/MHz	22.14 dBm/MHz
FH, DS-FH FH-OFDM	2,400 - 2,483.5 MHz	3 mW/MHz	6.91 dBm/MHz	16.91 dBm/MHz
	Excluding 2,427 - 2,470.75 MHz	10 mW/MHz	12.14 dBm/MHz	22.14 dBm/MHz
Other than the above	2,400 - 2,483.5 MHz	10 mW	12.14 dBm	22.14 dBm

Note: it is not applicable when Antenna gain do not exceed 2.14 dBi.

TEST RESULTS

N/A

AS:

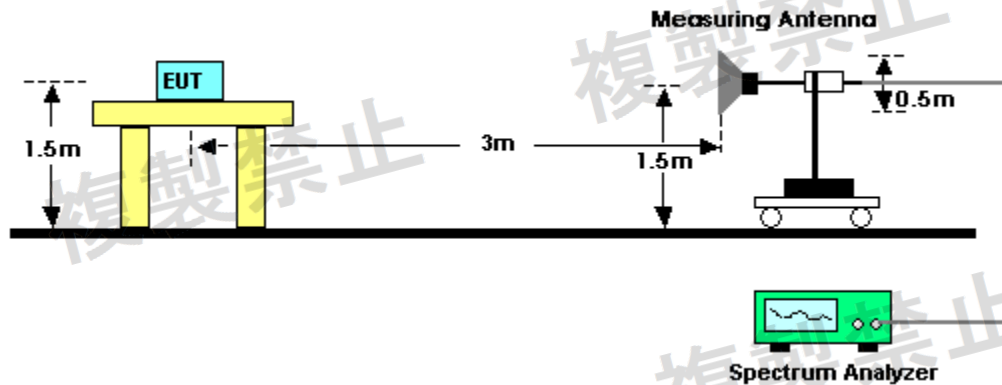
☒ Antenna gain do not exceed than 2.14 dBi





4.8. Transmission Radiation Angle Width (3db Beamwidth) Measurement

TEST CONFIGURATION



TEST PROCEDURE

1. Set EUT and measuring antenna at the same height and roughly facing each other.
2. Set spectrum analyzer with condition in section 4.8 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 $A = 1$).
 $A = \{ \text{EIRP Power [mW]} / 16.36 \text{ for DS, OFDM} \} = \{ \text{EIRP Power [dBm]} / 12.14 \text{ for DS, OFDM} \}$ or
 $A = \{ \text{EIRP Power [mW]} / 4.9 \text{ for FH} \} = \{ \text{EIRP Power [dBm]} / 6.91 \text{ for FH} \}$

LIMIT

Item	Upper Limits
3dB antenna beam width	$360/A$ (If $A < 1$; then $A = 1$) $A = \{ \text{EIRP [mW]} / 16.36 \text{ for DS, OFDM} \}$ or $A = \{ \text{EIRP [mW]} / 4.9 \text{ for FH} \}$
Note: it is not applicable when Antenna gain do not exceed 2.14 dBi or EIRP do not exceed the omnidirectional EIRP upper limit..	

TEST RESULTS

N/A

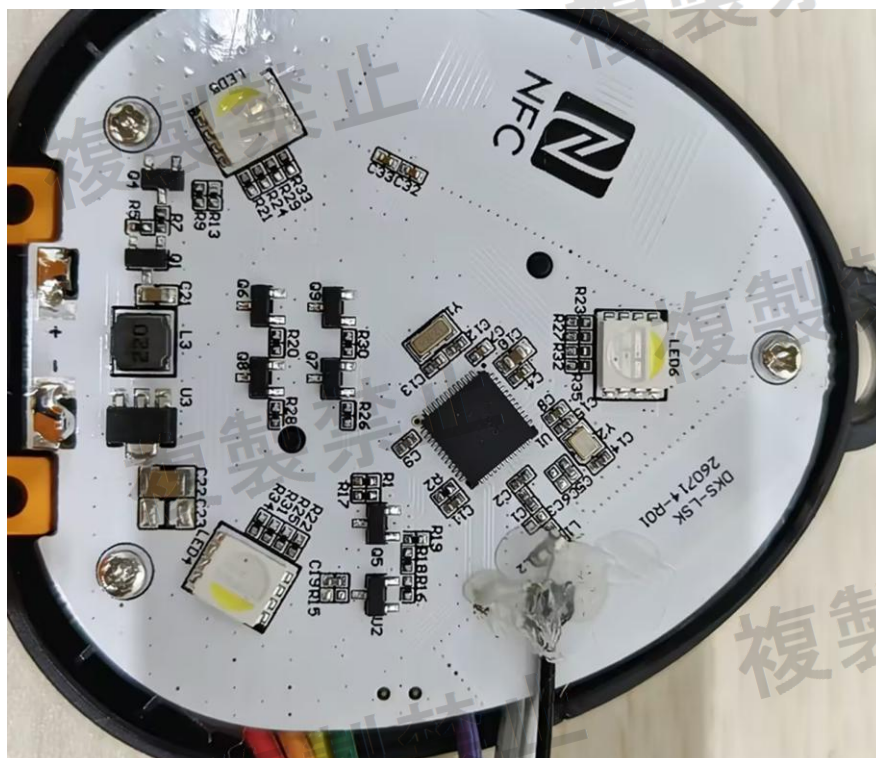
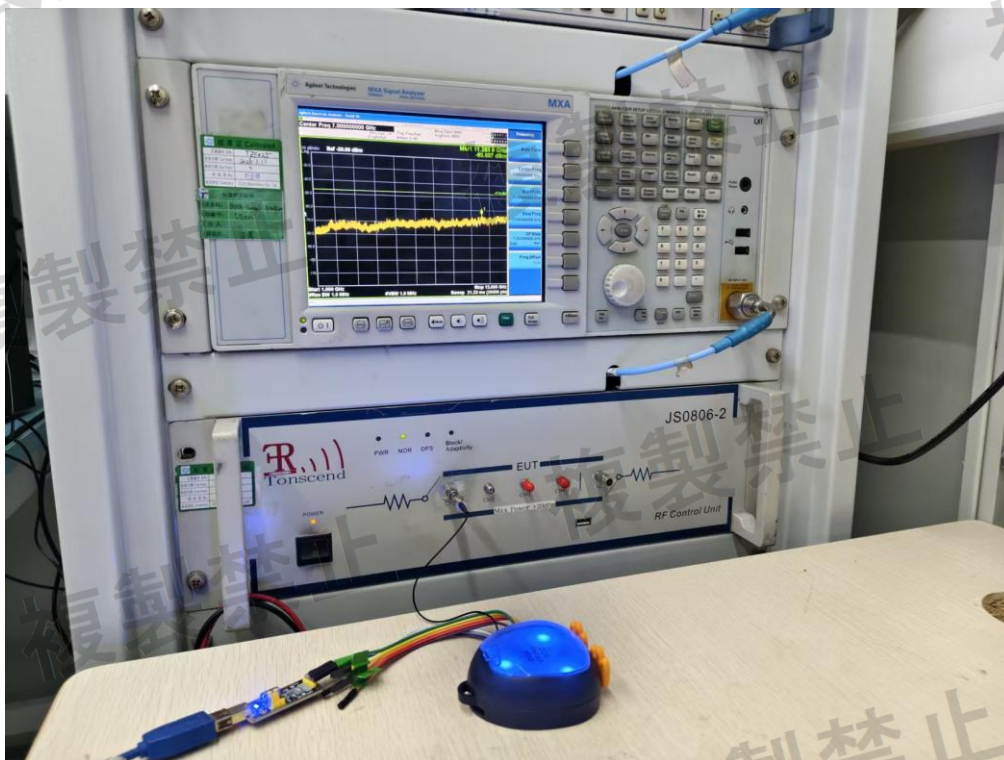
AS:

- ☒ Antenna gain do not exceed than 2.14 dBi
☐ EIRP do not exceed the omnidirectional EIRP upper limit





5. Test Setup Photos of the EUT





6. External and Internal Photos of the EUT

External Photos

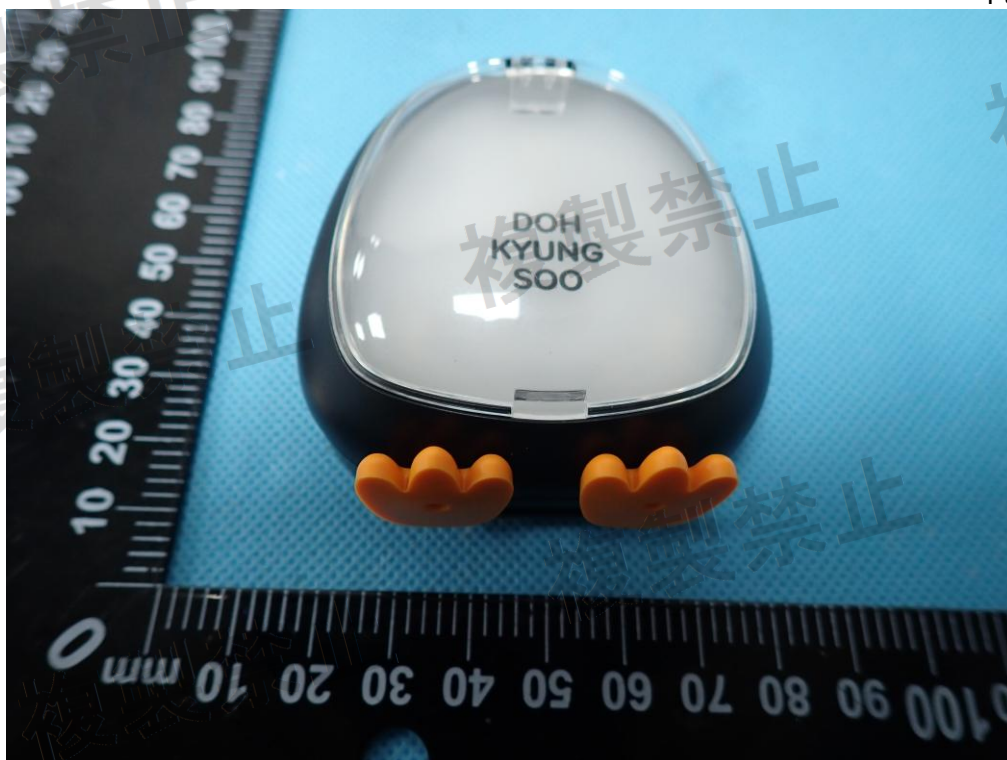


External Photo 1



External Photo 2



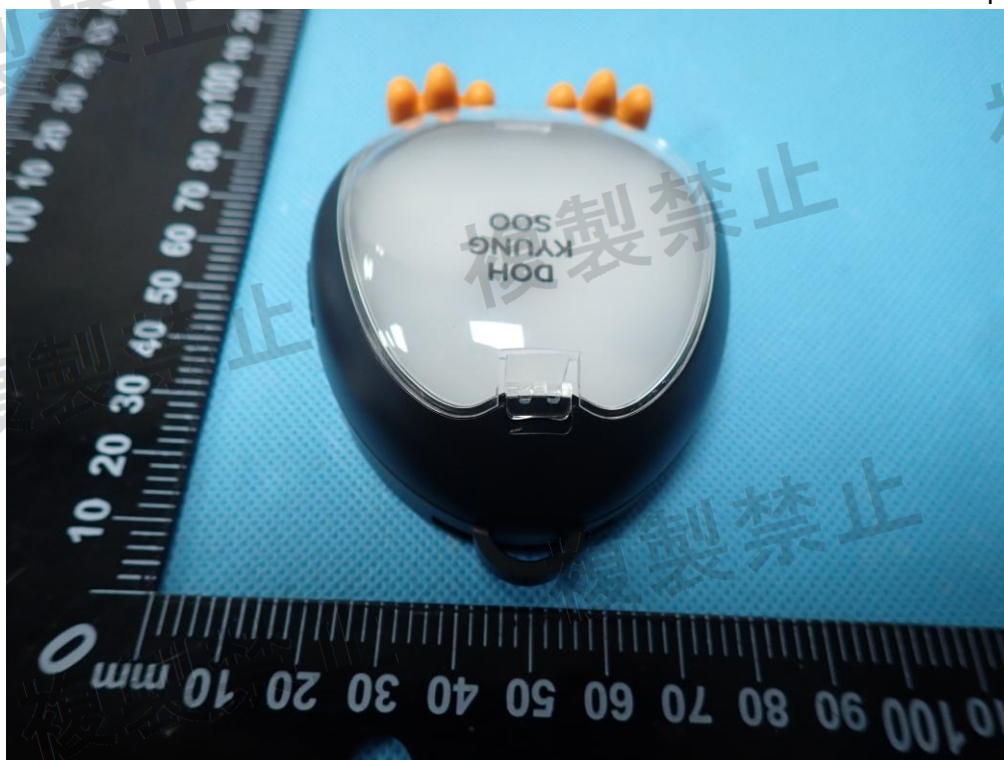


External Photo 3



External Photo 4





External Photo 5

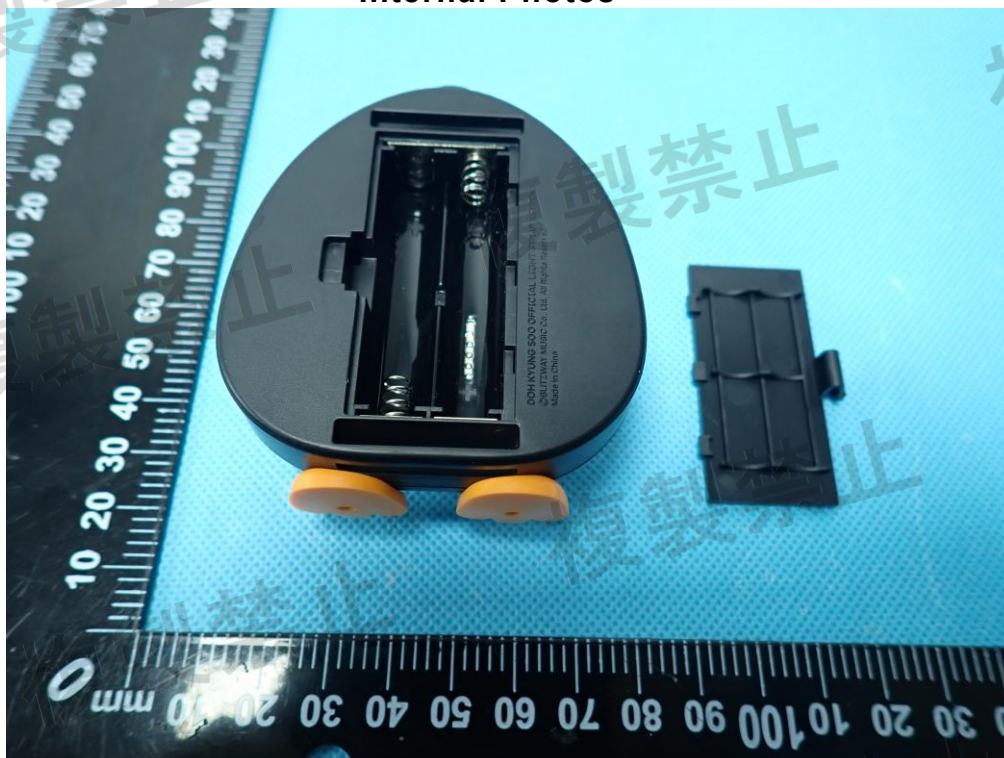


External Photo 6





Internal Photos



Internal Photo 1

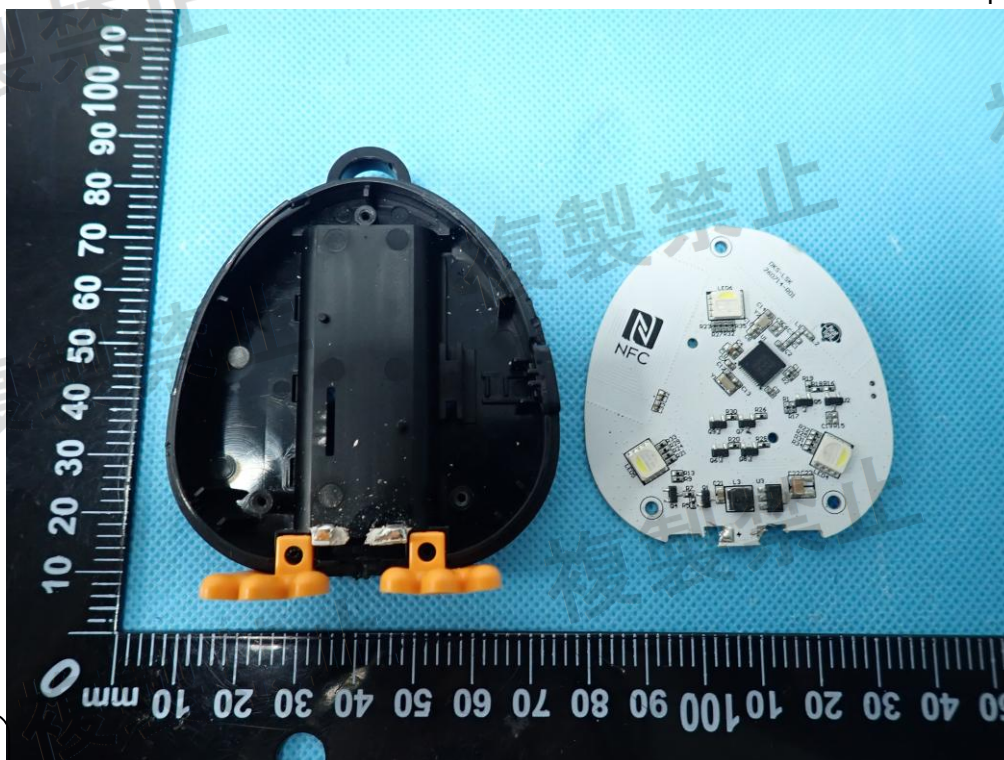


Internal Photo 2



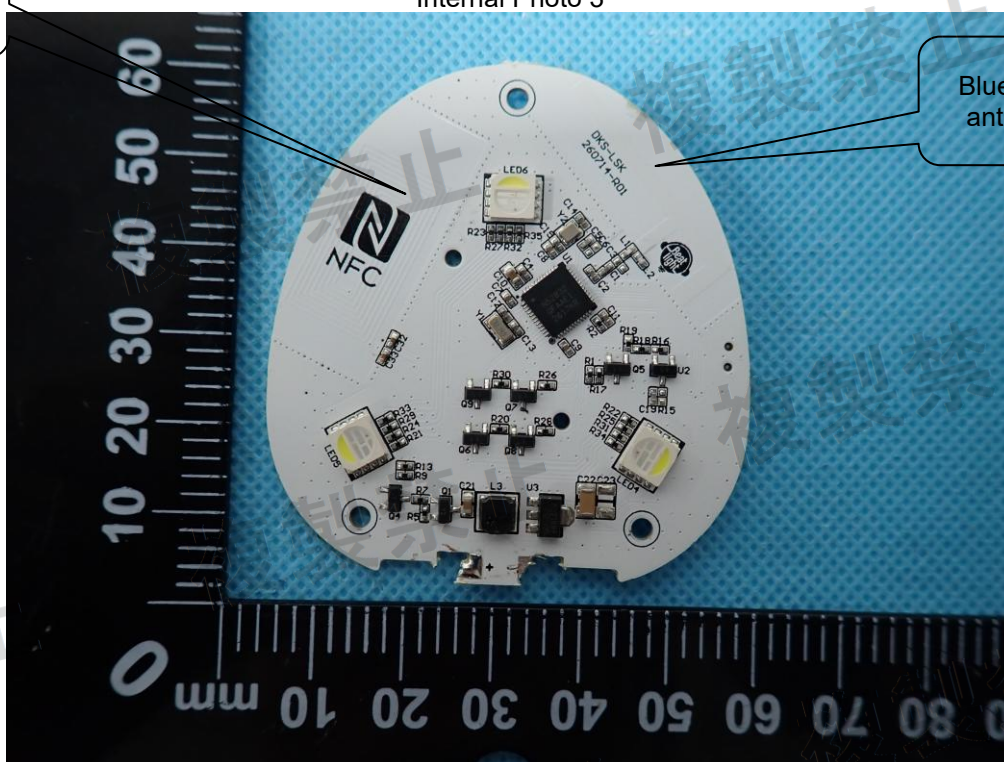


複製禁止



NFC
Passive
antenna

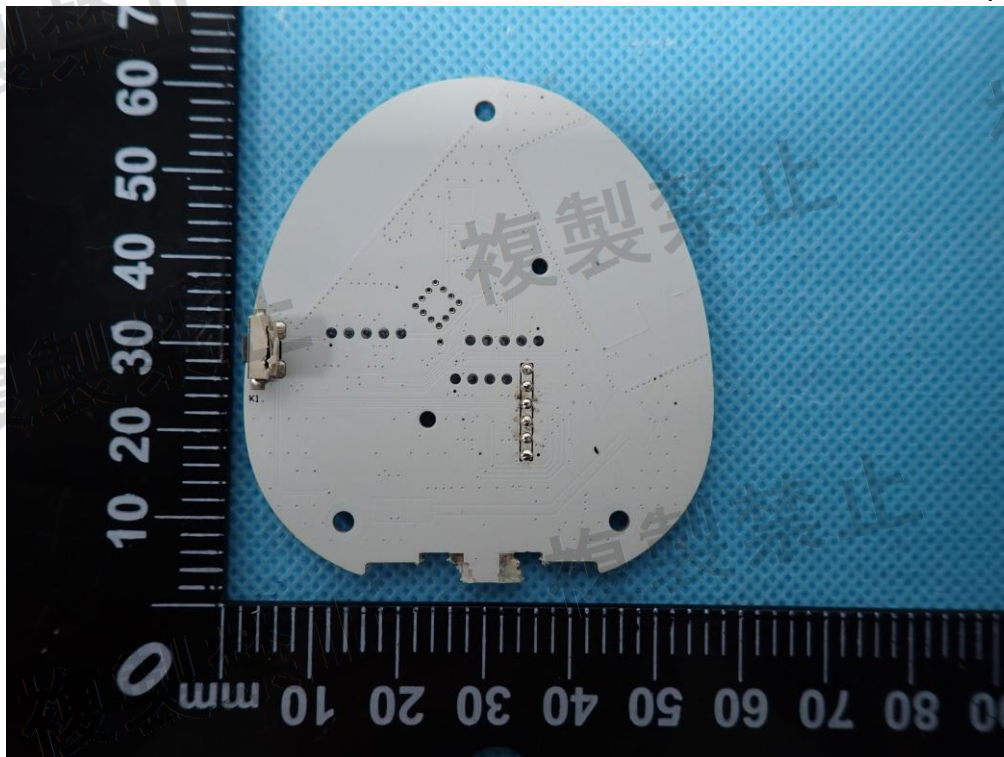
Internal Photo 3



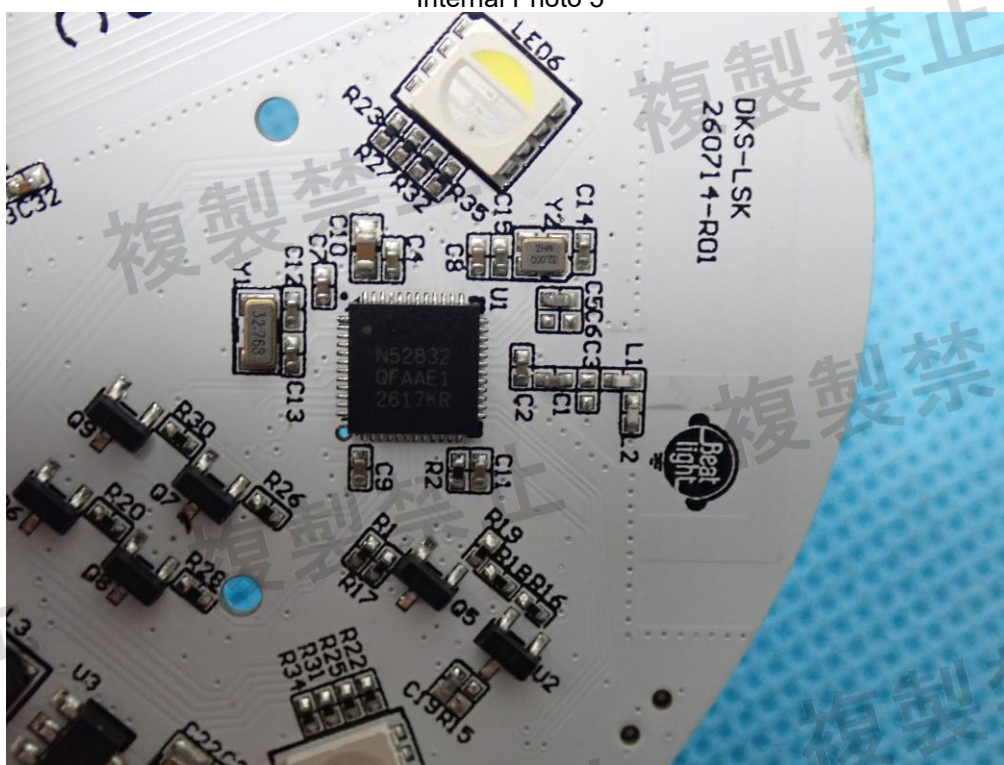
Bluetooth
antenna

Internal Photo 4



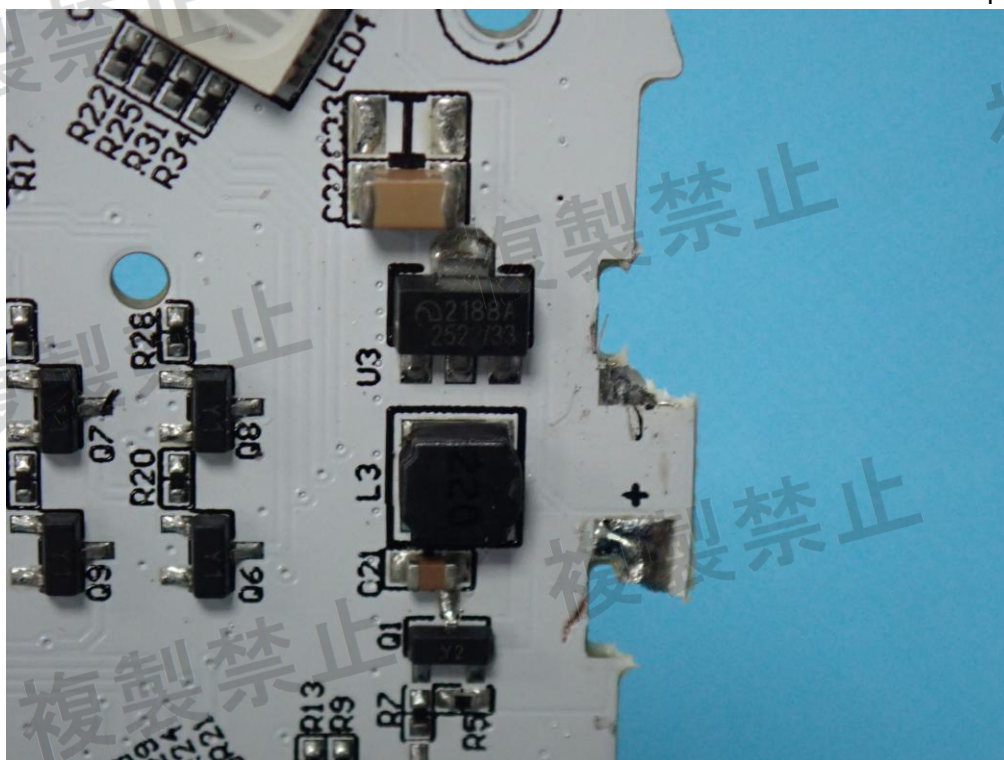


Internal Photo 5



Internal Photo 6





Internal Photo 7

S

.....End of Report.....

