

ARIB STD-T66 TEST REPORT

FOR

Applicant	:	TCL Technoly Electronics (Huizhou) Co., Ltd
Address	:	Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guangdong Province, China, 516006
Equipment under Test	:	HOME THEATER SYSTEM
Model No.	:	SIGNA S4 SOUND BAR
Trade Mark	:	Polk
Manufacturer	:	Sound United, LLC.
Address	:	5541 Fermi Court Carlsbad, CA 92008, USA

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park,
Dongguan City, Guangdong Province, China, 523808

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REPORT

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Test Report Declare

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Test Standard Used: ARIB STD-T66 Version 3.7/2014-10, Second-Generation Low-Power Data Communication System/wireless LAN System, Article 2 paragraph 1 item (19).

We Declare:

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standard specified above. The test results are contained in this test report and Dongguan Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above ARIB standard.

Report No.:	DDT-R21060405-2E02		
Date of Receipt:	Jun. 08, 2021	Date of Test:	Jun. 08, 2021 ~ Jul. 07, 2021

Prepared By:

Sam Li

Sam Li/Engineer

Approved By:



Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Aug. 06, 2021	

1. Summary of Test Results

CLAUSE (ARIB STD-T66)	TEST PARAMETER	RESULTS
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)	Spreading Factor	Pass
3.2 (10)	Number of Carriers	N/A
3.2 (11)	Dwell Time	Pass
3.2 (6)	Spurious Emissions	Pass
---	Carrier Sense	N/A
3.6	Process Gain	N/A
3.3 (1)	Secondary Radiated Emissions	Pass

N/A is an abbreviation for Not Applicable.

2. General Test Information

2.1. Description of EUT

EUT* Name	: HOME THEATER SYSTEM
Model Number	: SIGNA S4 SOUND BAR
EUT Function Description	: Please reference user manual of this device
Power Supply	: AC 100-120V~ 50/60Hz 40W
Radio Specification	: 2.4G SRD
Operation Frequency	: 2404 MHz - 2476 MHz
Modulation	: GFSK
Data Rate	: 2 Mbps
Antenna Gain	: 2.72 dBi
Serial Number	: N/A

Note: EUT is the abbreviation of equipment under test.

Channel Information					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2404	14	2430	27	2456
2	2406	15	2432	28	2458
3	2408	16	2434	29	2460
4	2410	17	2436	30	2462
5	2412	18	2438	31	2464
6	2414	19	2440	32	2466
7	2416	20	2442	33	2468
8	2418	21	2444	34	2470
9	2420	22	2446	35	2472
10	2422	23	2448	36	2474
11	2424	24	2450	37	2476
12	2426	25	2452		
13	2428	26	2454		

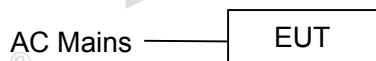
2.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
Optical Cable	TCL	N/A	Length: 1.80m, unshielded
HDMI Cable	TCL	N/A	Length: 1.40m, unshielded
AC Cable	TCL	N/A	Length: 1.40m, unshielded

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	SN
N/A	N/A	N/A	N/A	N/A

2.4. Block diagram of EUT configuration for test



The test software was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as below table.

Test software: Syncomm IA3 ezWa EMI Tool

Tested mode, channel, information			
Mode	Setting Tx Power	Channel	Frequency (MHz)
GFSK hopping on Tx mode	/	CH1 to CH37	2404 to 2476
GFSK hopping off Tx mode	/	CH1	2404
	/	CH19	2440
	/	CH37	2476
Rx mode	/	CH1	2404
	/	CH19	2440
	/	CH37	2476

2.5. Test environment conditions

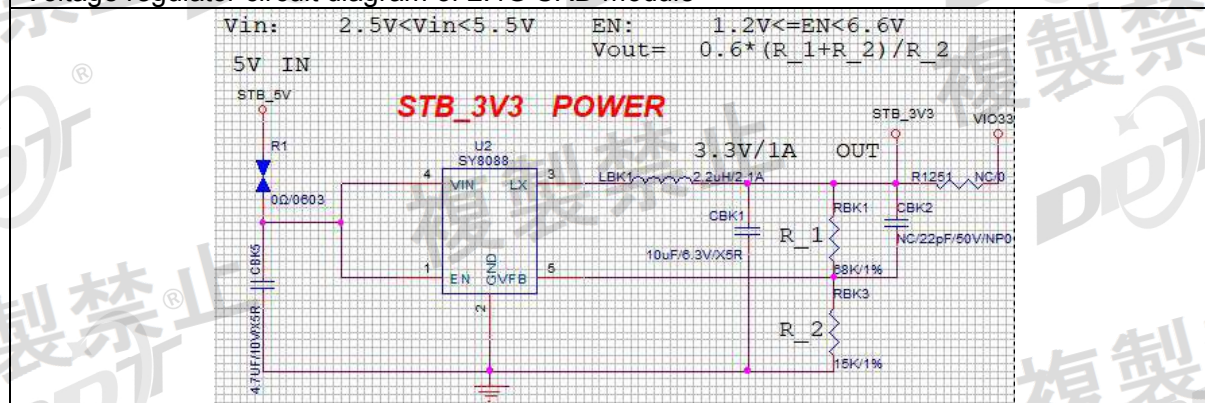
During the measurement the environmental conditions were within the listed ranges:

/	Normal Conditions
Temperature range	23.8 °C
Humidity range	46.0%
Pressure range	101.4 kPa
Power supply	AC 100V (When the input voltage to equipment fluctuated $\pm 10\%$, the RF unit circuit voltage fluctuation under 1%, therefore all test performed on the rated voltage for equipment.)

The measurement result of the voltage fluctuation at RF circuit when AC 100V $\pm 10\%$.

Input voltage	RF module voltage
AC 110V	DC 3.30V
AC 100V	DC 3.30V
AC 90V	DC 3.30V

Voltage regulator circuit diagram of 2.4G SRD module



2.6. Deviations of test standard

No deviation.

2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, G-20118

2.8. Measurement uncertainty

Test Item	Uncertainty
Occupied Channel Bandwidth	±1%
Uncertainty for radio frequency	1×10^{-9}
RF Output Power, Conducted	±0.6 dB
Power Spectral Density, Conducted	±1.2 dB
Unwanted Emissions, Conducted	±0.6 dB
Temperature	±0.2 °C
Humidity	±1%
DC and Low frequency voltage	±0.5%
Time	±1%
Duty Cycle	±1%
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment Used During Test

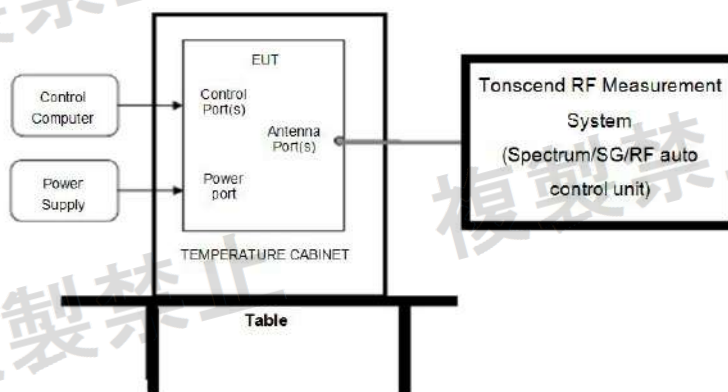
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval	Calibration body
RF Connected Test (Tonscend RF Measurement System)						
Spectrum analyzer	R&S	FSU26	200071	Sep. 25, 2020	1 Year	GRGT
RF Control Unit	Tonsend	JS0806-2	DDT-ZC0290	Jun. 01, 2021	1 Year	CCIC
DC Power Source	MESTEK	DP3010B	0025914	Apr. 17, 2021	1 Year	CCIC
MULTIMETER	FLUKE	179	11400838	Sep. 27, 2020	1 Year	GRGT
Test Software	JS Tonscend	JS1120-3	Ver.2.7	N/A	N/A	N/A
Remark: Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).						

4. Antenna Power and Tolerances for Antenna Power

4.1. Limit

Limit	3 mW/MHz
Tolerance	+20%, -80%

4.2. Block diagram of test setup



4.3. Test procedure

- (1) Connect each EUT's antenna output to power sensor by RF cable and attenuator.
- (2) For adaptive equipment, the measurement duration shall be long enough to ensure a minimum number of bursts (at least 10) is captured.

Note: The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.

4.4. Test result

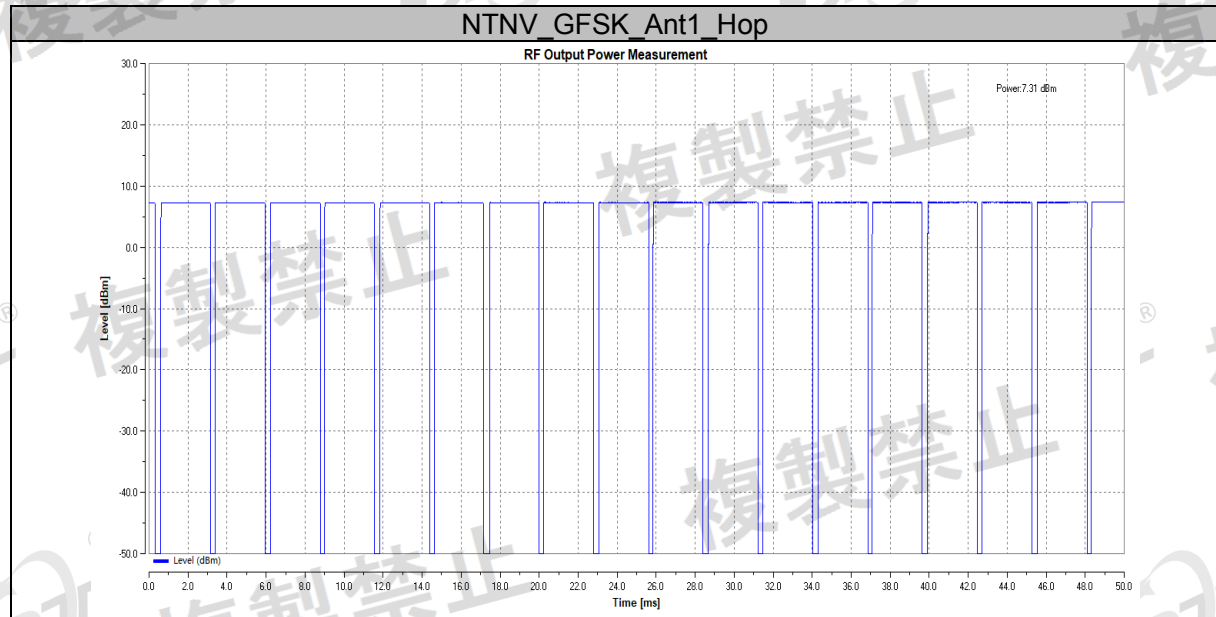
Antenna Power							
Mode	Ant	Measured		Burst Ratio	Spread Bandwidth	Result	Limit
		dBm	mW		MHz	mW/MHz	mW/MHz
GFSK Tx mode Hopping	Ant1	7.31	5.38	1	68.554	0.078	3
Note 1: Output Power Density (mW/MHz) = Total Output Power (mW) / Burst Ratio / Spread Bandwidth (MHz)							
Note 2: Burst Ratio = ON Time / (ON Time + OFF Time)							

Mode	Ant	Stated power	Result	Tolerance	Limit
		mW/MHz	mW/MHz	%	%
GFSK Tx mode Hopping	Ant1	0.150	0.078	-48.00	+ 20%≥ and ≥ -80

Tolerances for Antenna Power Limit: + 20%≥ and ≥-80%

Verdict : Pass

4.5. Original test data

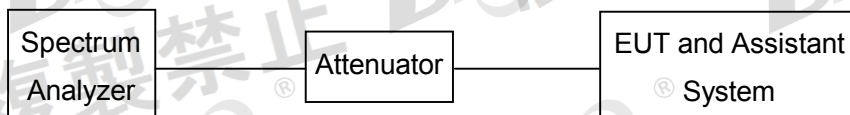


5. Frequency Tolerance

5.1. Limit

+/- 50 x 10⁻⁶ or less (50 ppm)

5.2. Block diagram of test setup



5.3. Test procedure

- (1) 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: 1 MHz.

Detector: Peak.

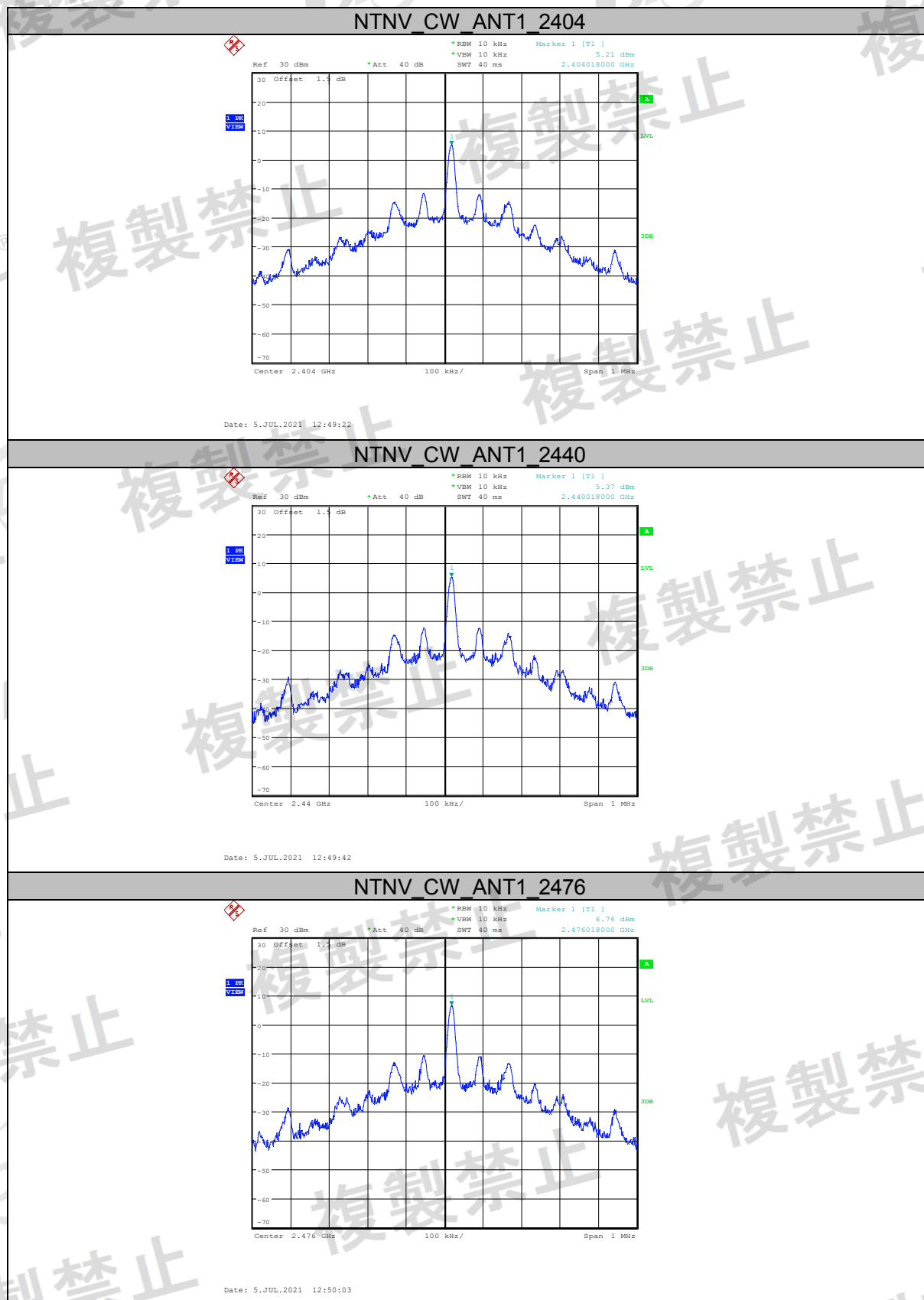
Trace Mode: Max Hold.

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

5.4. Test result

Mode	CH (MHz)	Result			Limit (ppm)
		Measured (MHz)	Tolerance (kHz)	Tolerance (ppm)	
Carrier Tx mode	CH1: 2404	2404.018	+18	+7.49	+/-50
	CH19: 2440	2440.018	+18	+7.38	+/-50
	CH37: 2476	2476.018	+18	+7.27	+/-50
Verdict : Pass					

5.5. Original test data

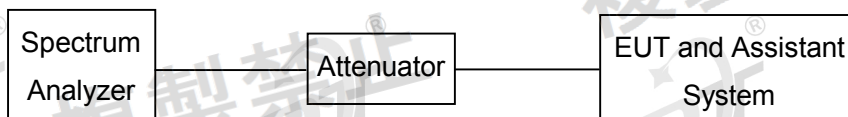


6. Occupied Frequency Bandwidth

6.1. 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.

6.2. Block diagram of test setup



6.3. Test procedure

- (1) 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.

Hopping off:

Resolution BW: 30 kHz

Video BW: 30 kHz

Hopping on:

Resolution BW: 1 MHz

Video BW: 1 MHz

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

Detector: Peak.

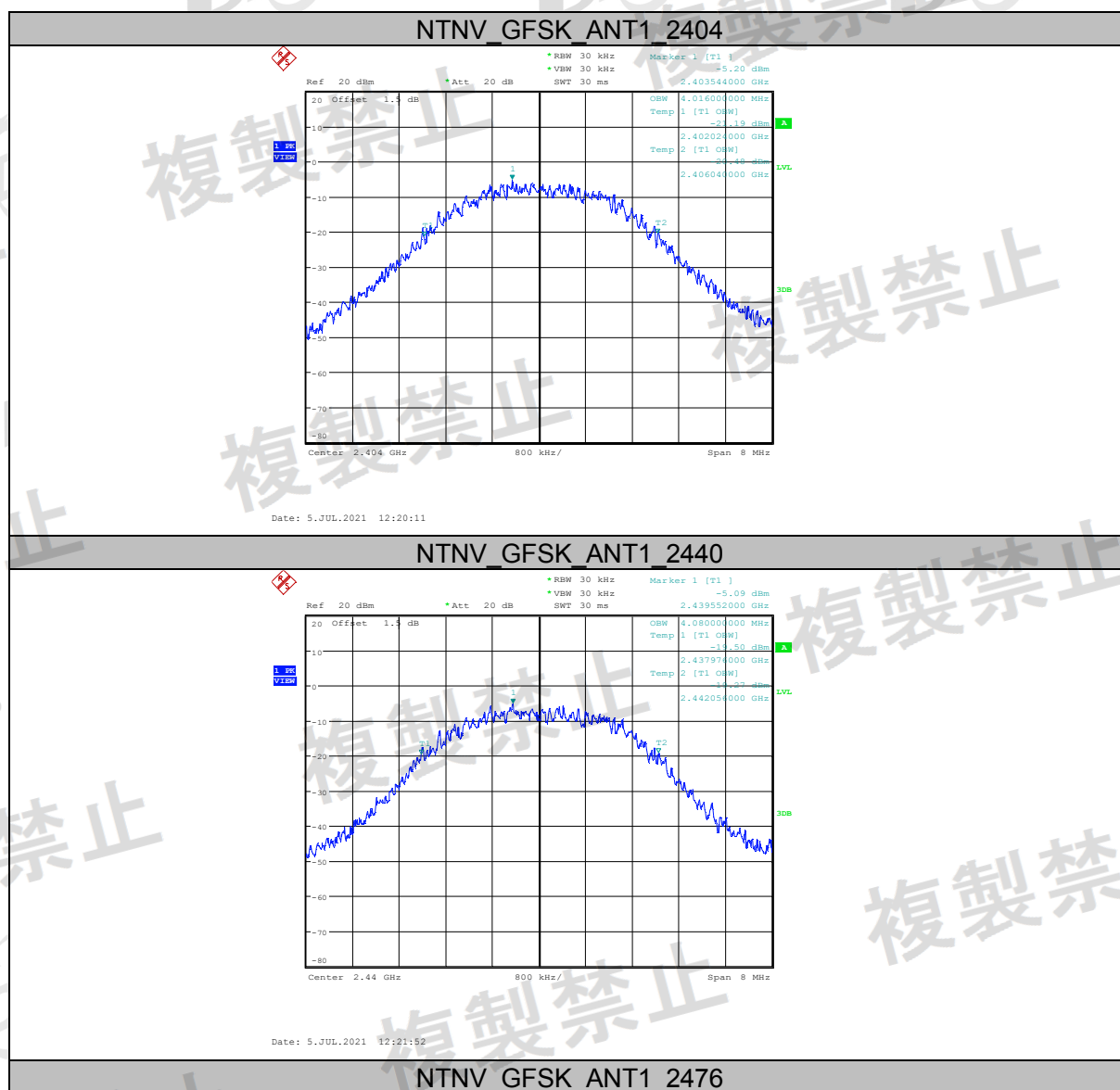
Trace Mode: Max Hold.

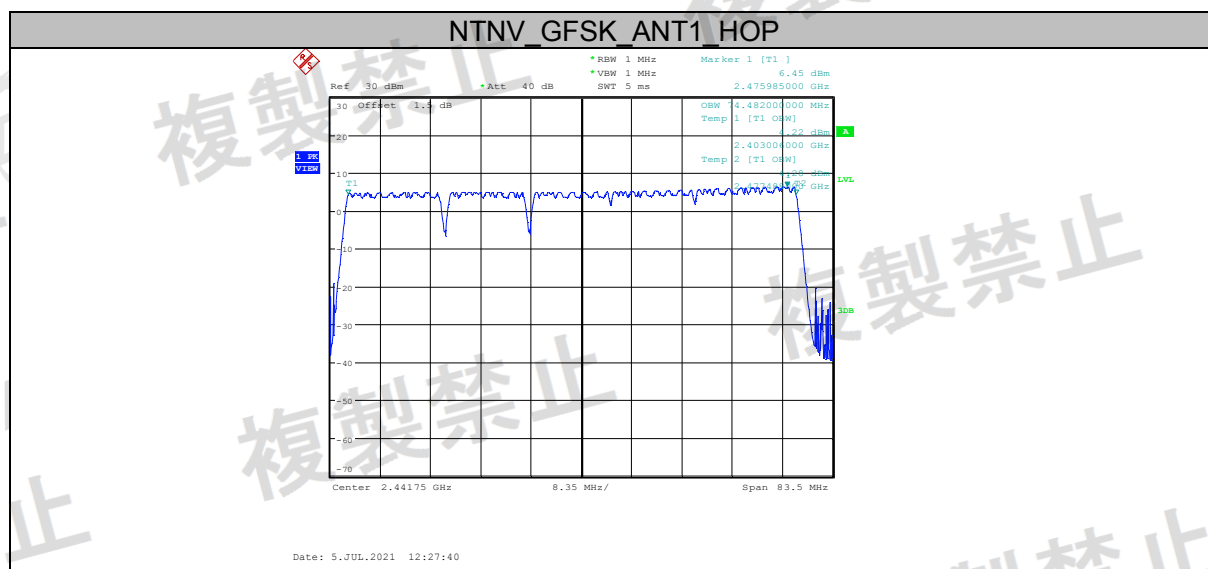
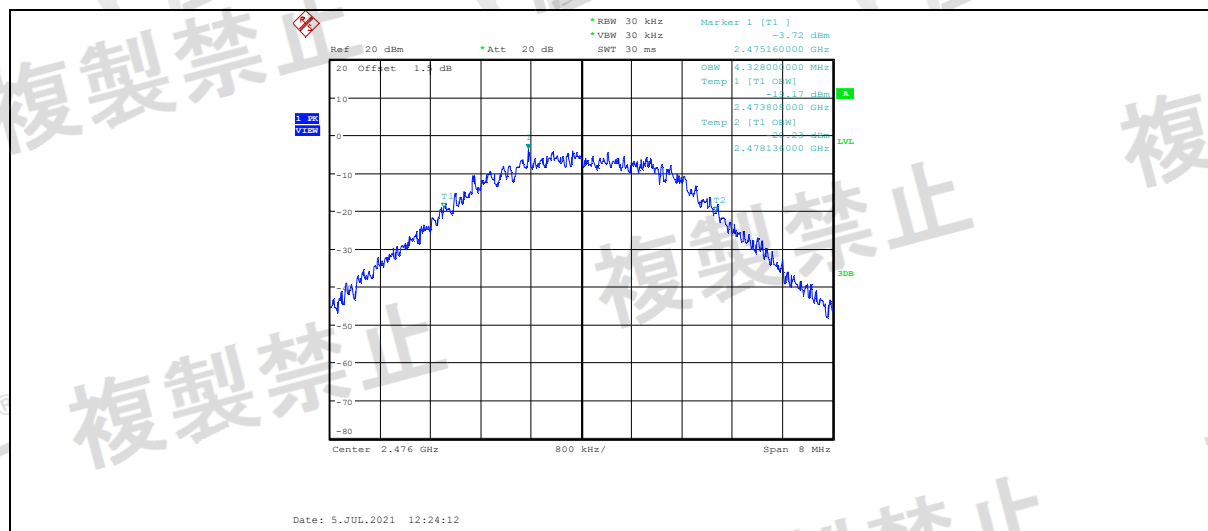
- (2) When the trace is complete, measure the occupied bandwidth (99% bandwidth) with spectrum analyzer's bandwidth measure function.

6.4. Test result

Mode	CH	Result	Limit
		(MHz)	(MHz)
GFSK Tx mode Hopping off	CH1	4.016	83.5
	CH19	4.080	83.5
	CH37	4.328	83.5
GFSK Tx mode Hopping on	/	74.482	83.5
Verdict : Pass			

6.5. Original test data



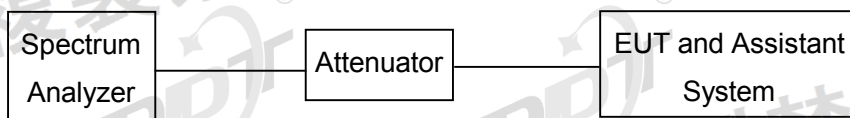


7. Spread Bandwidth

7.1. Limit

In spread spectrum systems, spread bandwidth (which refers to a frequency bandwidth with an upper limit and lower limit such that each of the mean powers radiated above the upper frequency limit and below the lower frequency limit is equal to 5 % of the total mean power radiated; this also applies hereafter) shall be 500 kHz or more.

7.2. Block diagram of test setup



7.3. Test procedure

- (1) 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: 1 MHz.

Video BW: 1 MHz.

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

Detector: Peak.

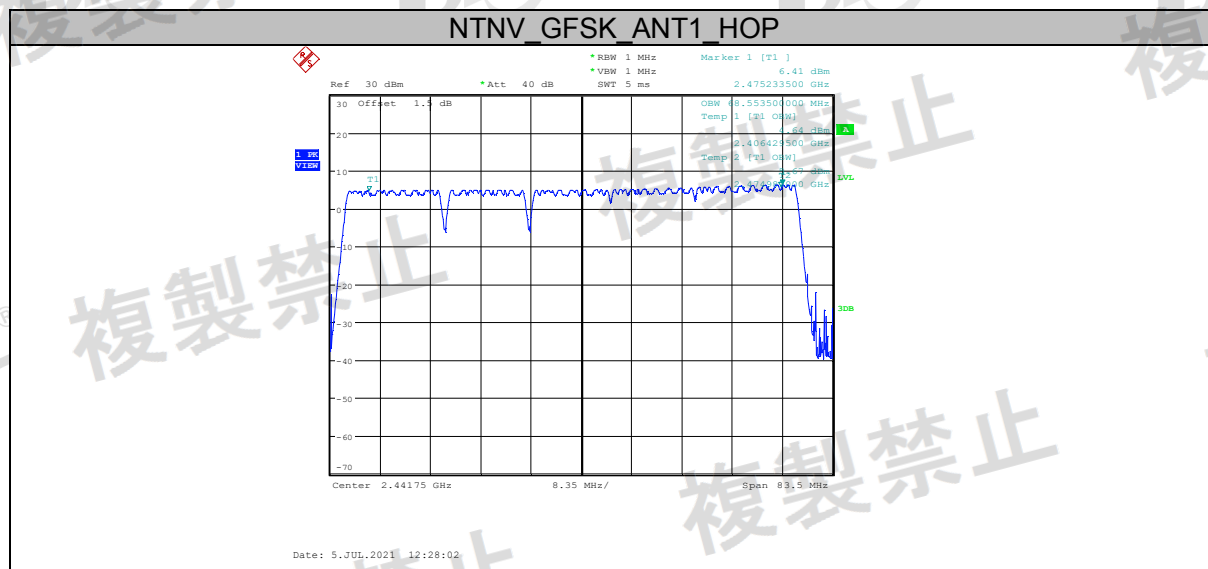
Trace Mode: Max Hold.

- (2) When the trace is complete, measure the spread bandwidth (90% bandwidth) with spectrum analyzer's bandwidth measure function.

7.4. Test result

Mode	Condition	CH	Result (MHz)	Limit (kHz)	Spreading factor	Limit
GFSK Tx mode Hopping on	Normal	79 channels (2402~2480)	68.554	500	34.277	≥5
Verdict : Pass Note: Spreading factor = Spread bandwidth (actual measurement value)/Transmission rate.						

7.5. Original test data

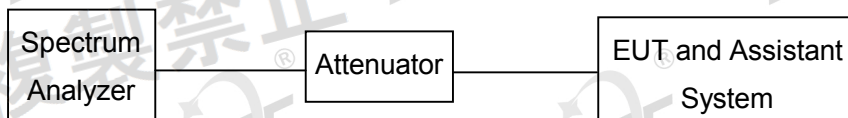


8. Dwell Time

8.1. Limit

Frequency dwell time (time during which radio waves continue to be emitted at a specified frequency) of a transmitting equipment using the FHSS system shall be 0.4 seconds or less.

8.2. Block diagram of test setup



8.3. Test procedure

- (1) 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 middle hopping channel.

Resolution BW: 1 MHz.

Video BW: 1 MHz.

Span: Zero span.

Detector: Peak.

Trace Mode: Max Hold.

Sweep: Video Trigger

- (2) When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.

- (3) Calculate dwell time follow below formula:

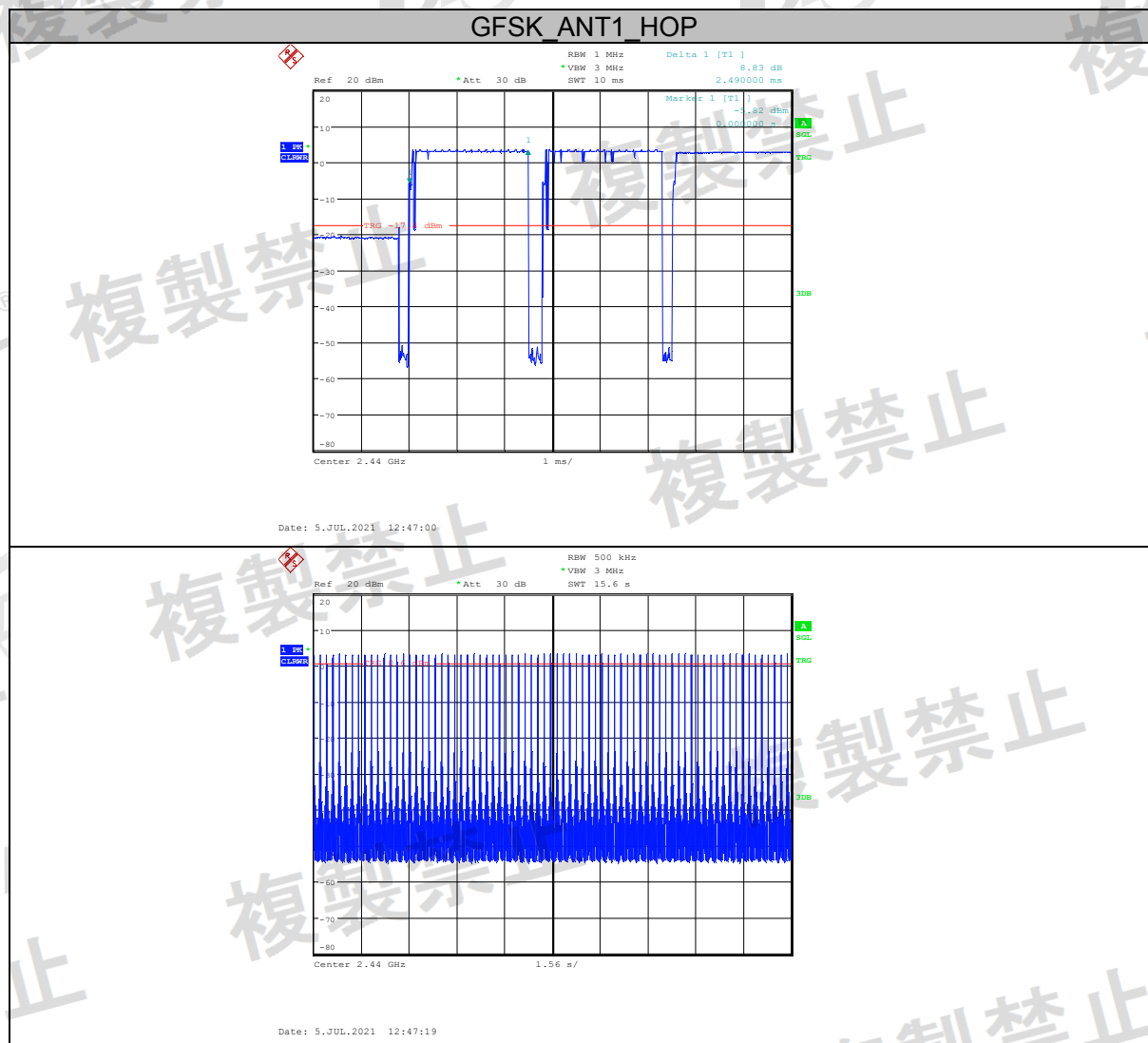
Dwell time = (0.4(s) x spreading rate x sending time of 1 burst(s))/(burst cycle(s) x No. of hopping channel)

Spreading rate = Spread bandwidth (actual measurement value)/Transmission rate.

8.4. Test result

Test Mode	Antenna	Channel [MHz]	Burst Width [ms]	Total Hops	Result [s]	Limit [s]	Verdict
GFSK	ANT1	HOP	2.49	75	0.187	0.4	Pass

8.5. Original test data



9. Transmitter Spurious Emissions (Conducted)

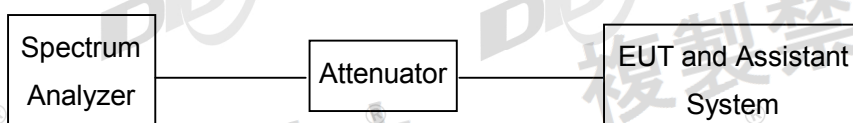
9.1. Limit

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 μW or less

b. $2,387\text{MHz} > f$ and $2,496.5\text{MHz} < f$ 2.5 μW or less

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: 1 MHz. Video BW: 1 MHz. Detector: Peak. Trace Mode: Max Hold.

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

9.4. Test result

Test Condition	Test Mode	Antenna	Channel (MHz)	Freq. Range (MHz)	Result (dBm)	Limit (dBm)	Verdict
NTNV	GFSK	ANT1	2402	30~1000	-47.36	-26	Pass
NTNV	GFSK	ANT1	2402	1000~2387	-51.04	-26	Pass
NTNV	GFSK	ANT1	2402	2387~2400	-30.73	-16	Pass
NTNV	GFSK	ANT1	2402	2483.5~2496.5	-53.95	-16	Pass
NTNV	GFSK	ANT1	2402	2496.5~13000	-49.90	-26	Pass
NTNV	GFSK	ANT1	2441	30~1000	-47.08	-26	Pass
NTNV	GFSK	ANT1	2441	1000~2387	-50.17	-26	Pass
NTNV	GFSK	ANT1	2441	2387~2400	-53.88	-16	Pass
NTNV	GFSK	ANT1	2441	2483.5~2496.5	-52.27	-16	Pass
NTNV	GFSK	ANT1	2441	2496.5~13000	-47.87	-26	Pass
NTNV	GFSK	ANT1	2480	30~1000	-47.24	-26	Pass
NTNV	GFSK	ANT1	2480	1000~2387	-59.12	-26	Pass
NTNV	GFSK	ANT1	2480	2387~2400	-54.75	-16	Pass
NTNV	GFSK	ANT1	2480	2483.5~2496.5	-46.13	-16	Pass
NTNV	GFSK	ANT1	2480	2496.5~13000	-46.49	-26	Pass

Note: If spurious emissions are greater than [limit -3dB] in 1MHz RBW, then more detailed measurements are required. Repeat the test in 30 kHz RBW, the spurious emission value using following the formula below:

Calculated Value = (Measured Value + 15.2 dB)

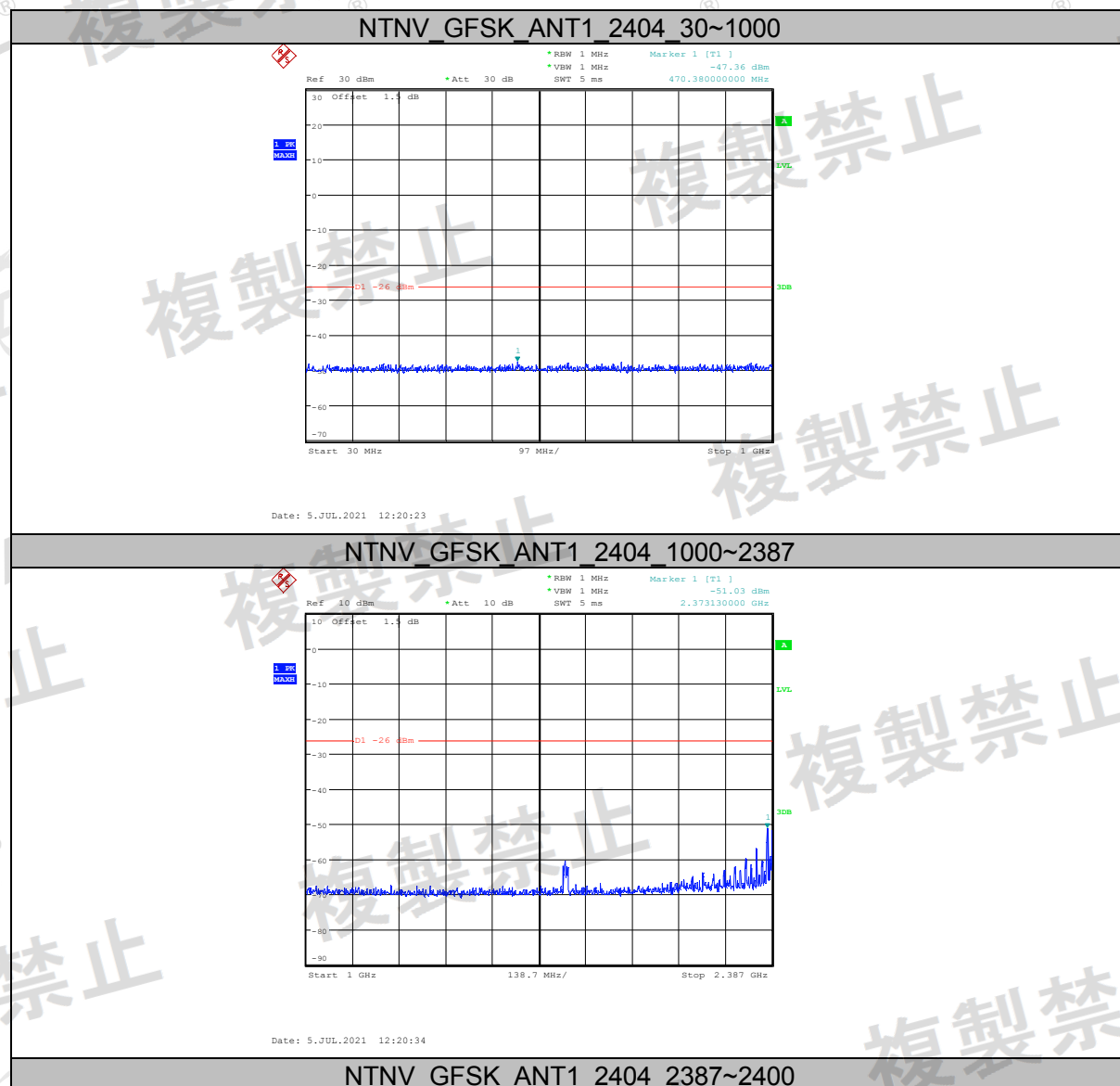
15.2 dB adjustment is derived from the Conversion Factor of RBW

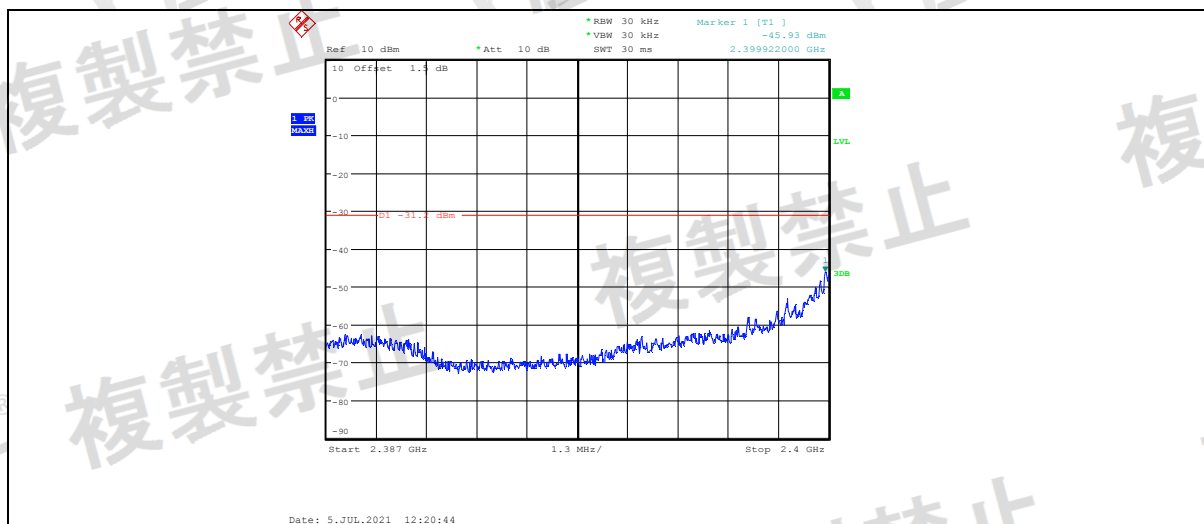
Conversion Factor of RBW = $10 \times \log(\text{Reference Bandwidth} / \text{RBW of measurement}) = 15.2[\text{dB}]$

Where: Reference Bandwidth = 1 MHz

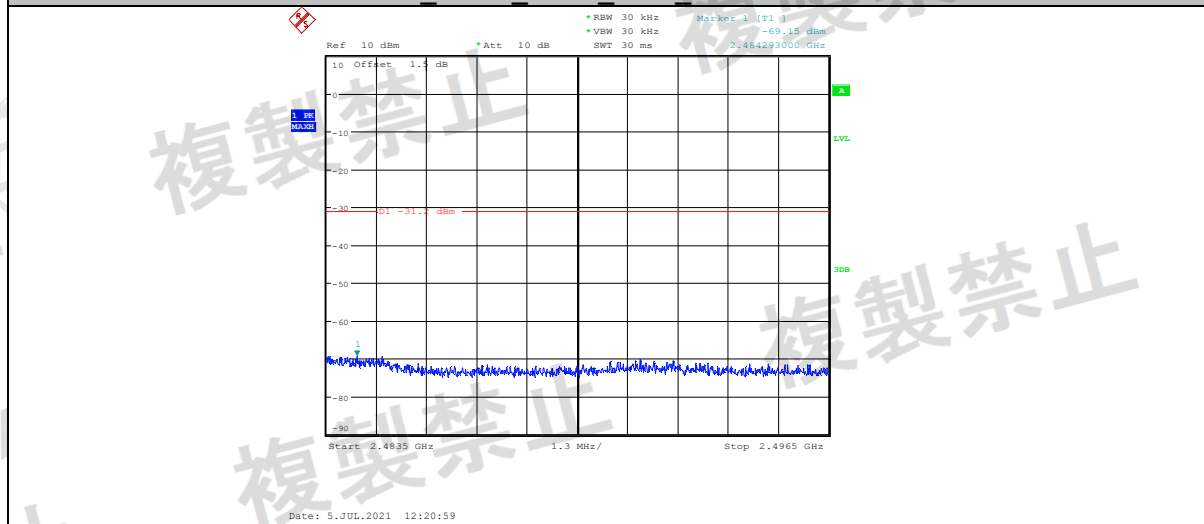
RBW of measurement = 30 kHz

9.5. Original test data

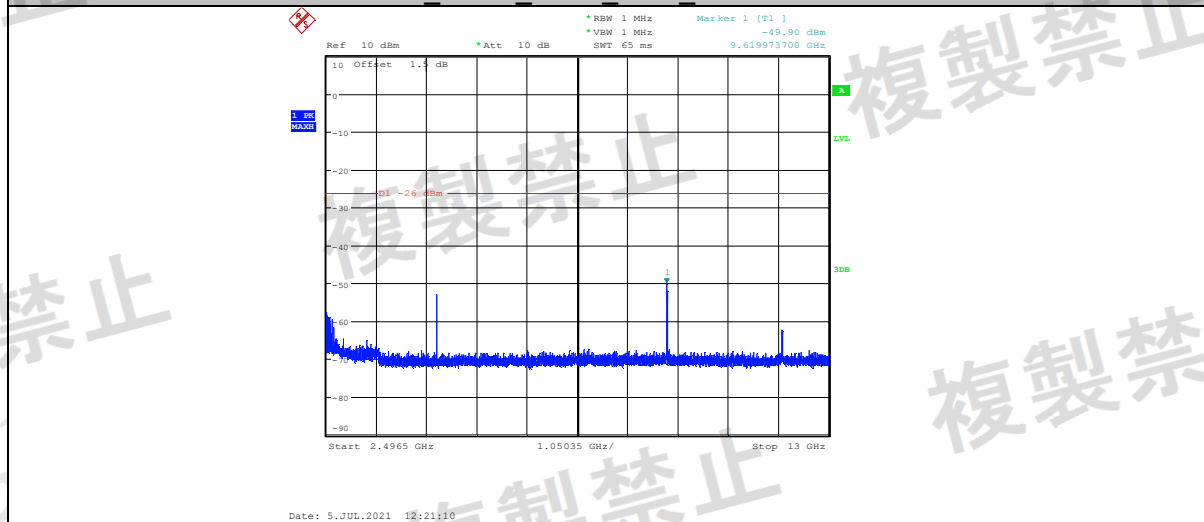




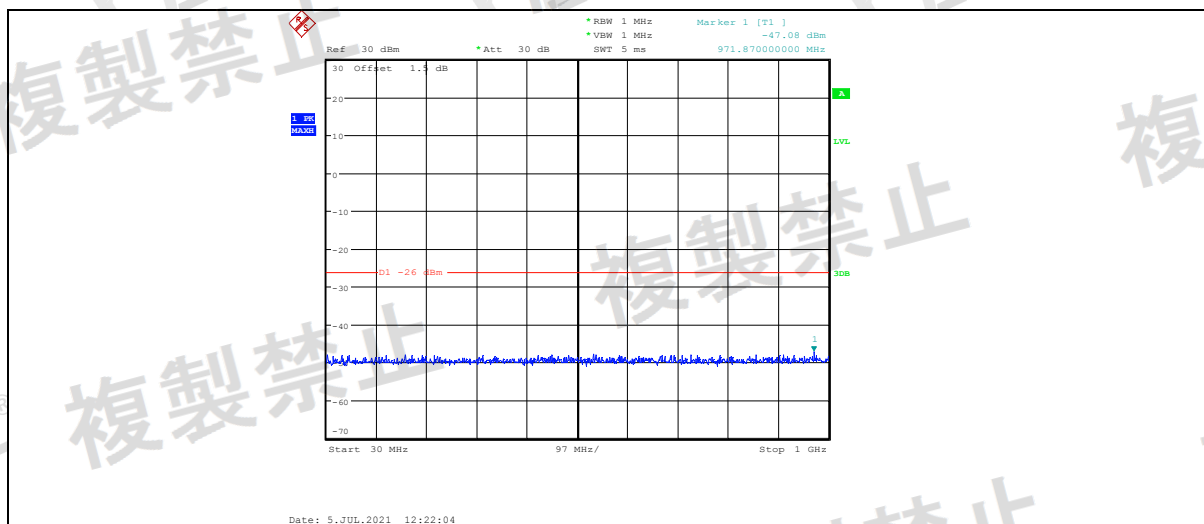
NTNV GFSK ANT1 2404 2483.5~2496.5



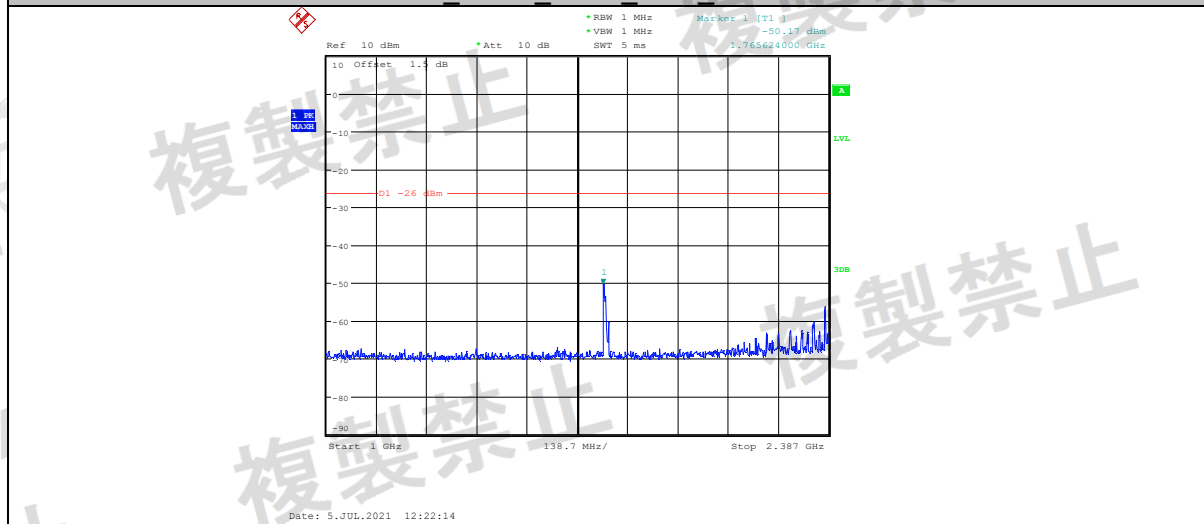
NTNV GFSK ANT1 2440 2496.5~13000



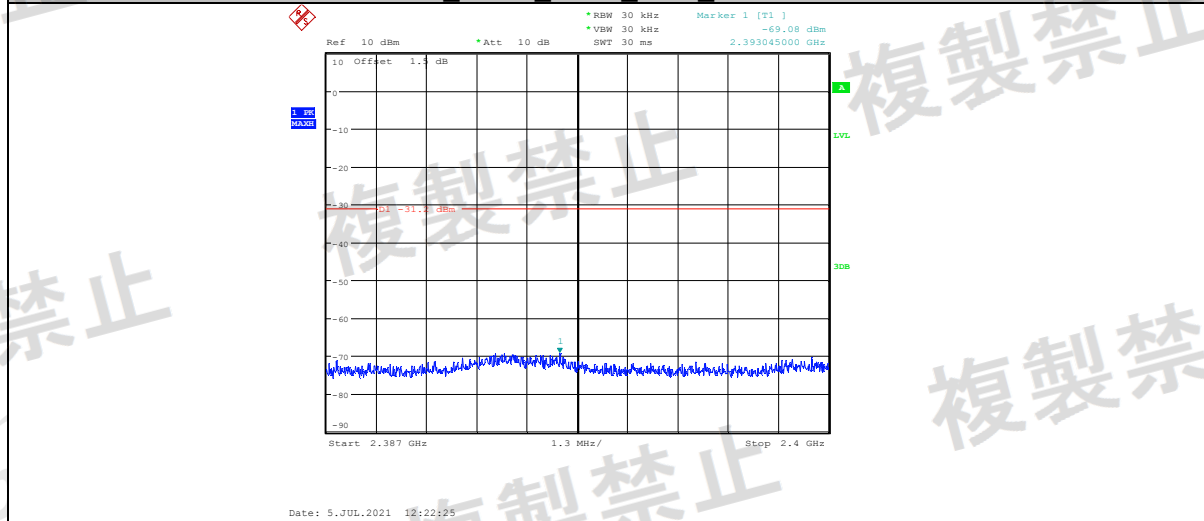
NTNV GFSK ANT1 2440 30~1000



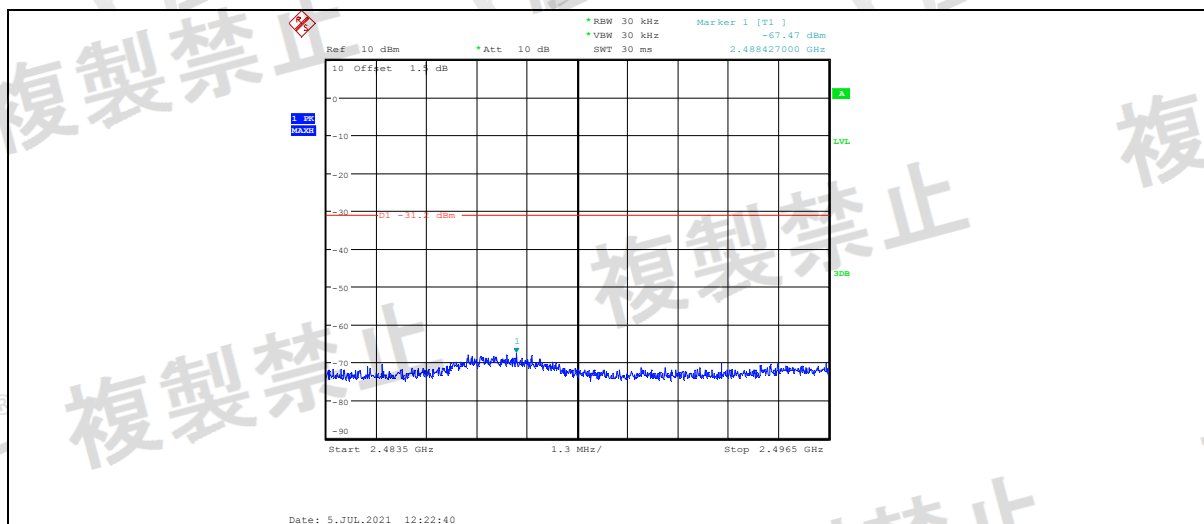
NTNV_GFSK_ANT1_2440_1000~2387



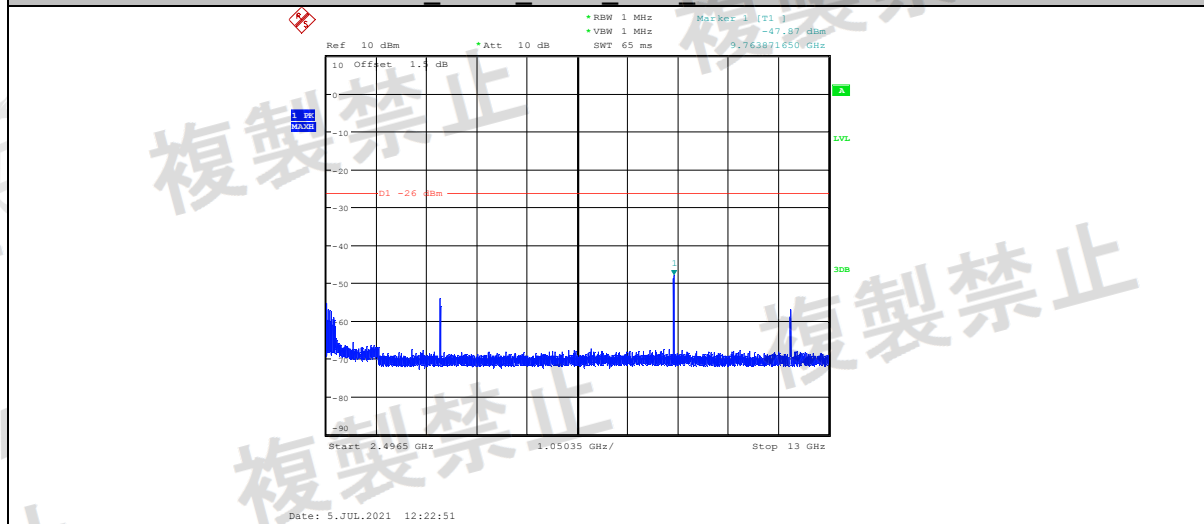
NTNV_GFSK_ANT1_2440_2387~2400



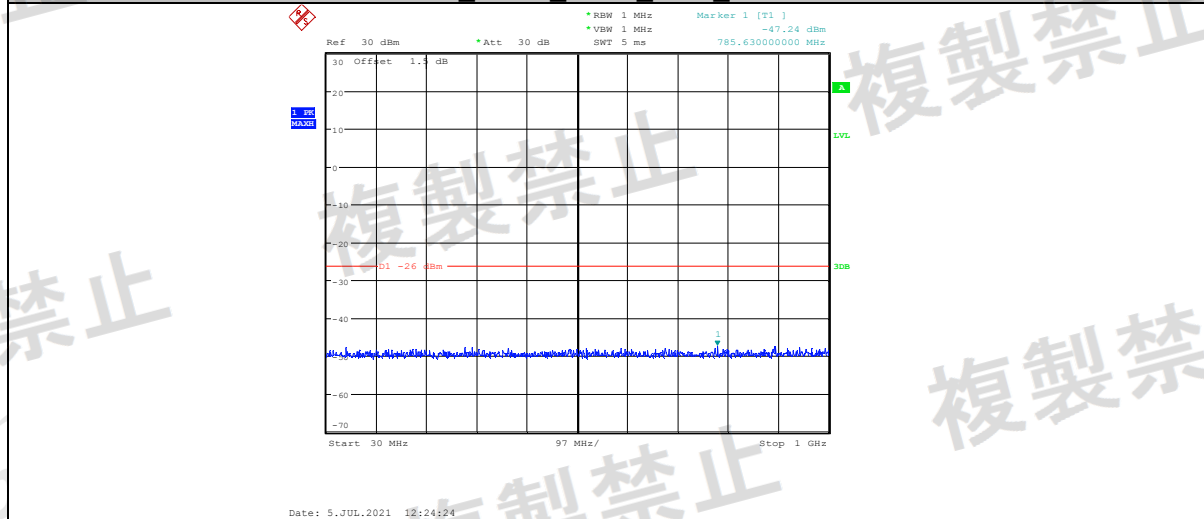
NTNV_GFSK_ANT1_2440_2483.5~2496.5



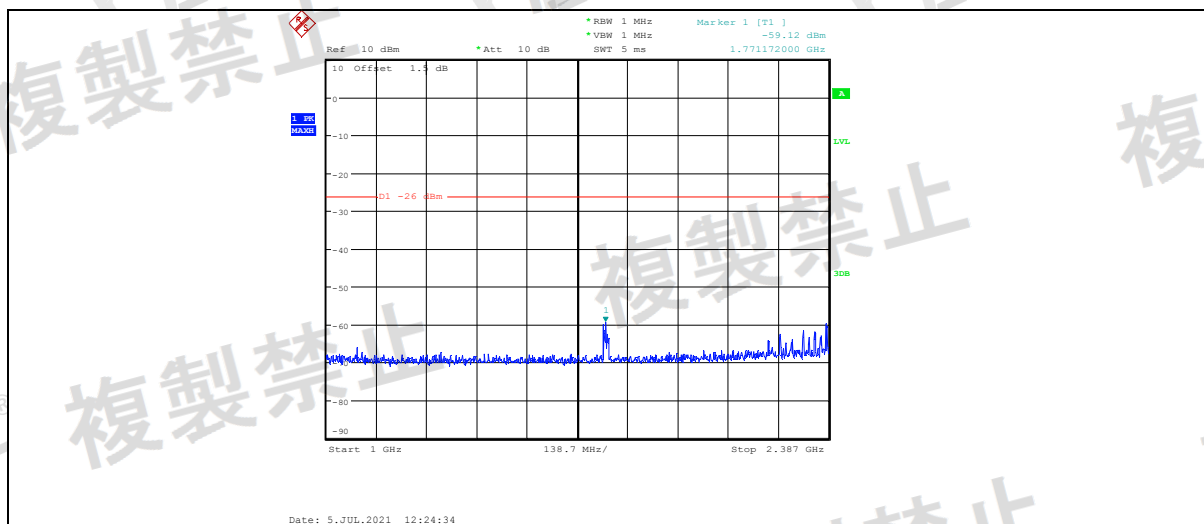
NTNV_GFSK_ANT1_2440_2496.5~13000



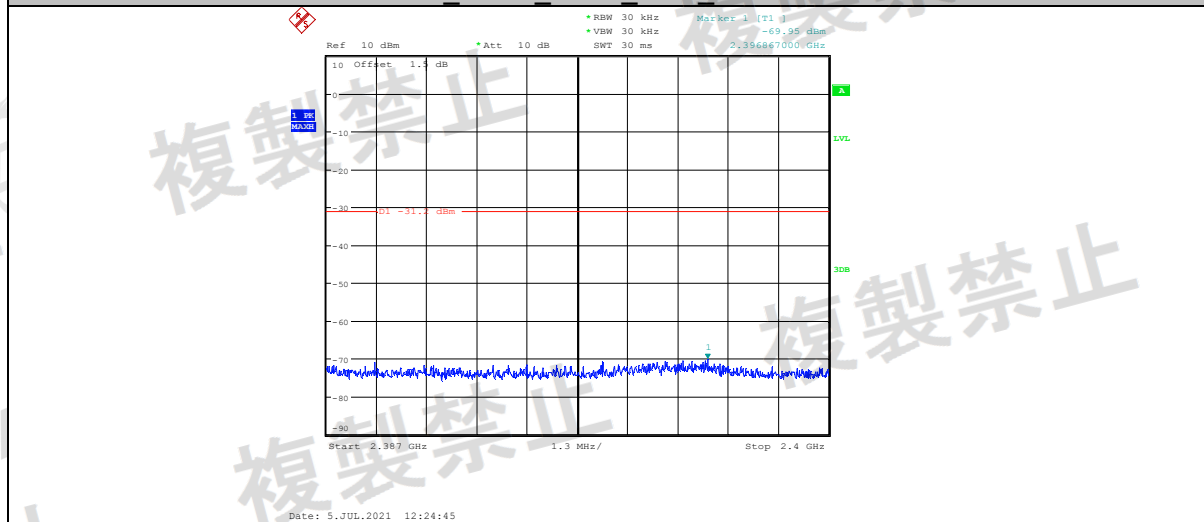
NTNV_GFSK_ANT1_2476_30~1000



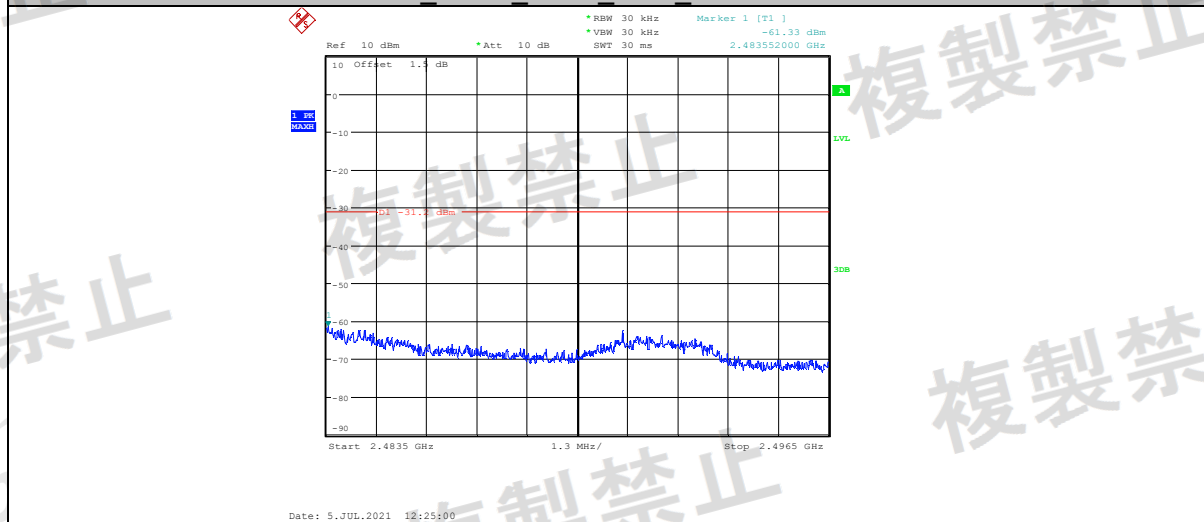
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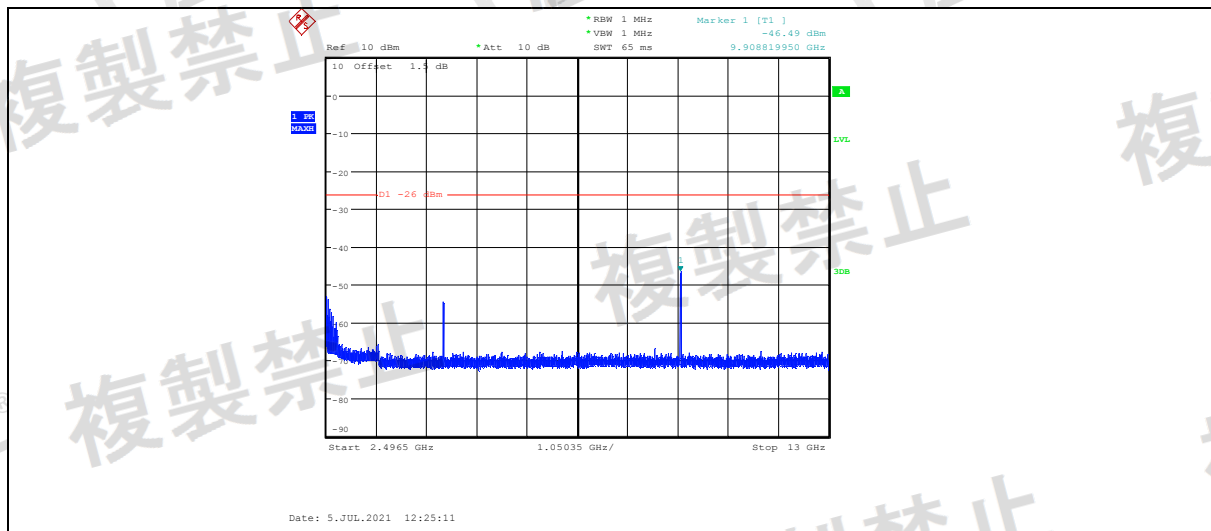
NTNV_GFSK_ANT1_2476_2387~2400



NTNV_GFSK_ANT1_2476_2483.5~2496.5



NTNV_GFSK_ANT1_2476_2496.5~13000

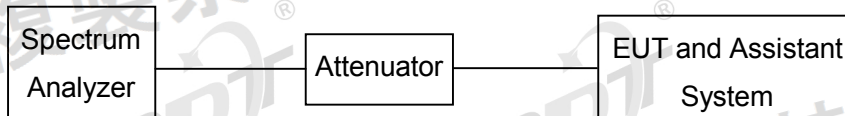


10. Secondary Radiated Emissions

10.1. 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.

10.2. Block diagram of test setup



10.3. 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.

10.4. Test result

Test Condition	Antenna	Channel	Freq. Range	Result (dBm)	Limit	Verdict
NTNV	ANT1	2402	30~1000	-74.52	-54	Pass
NTNV	ANT1	2402	1000~13000	-55.05	-47	Pass
NTNV	ANT1	2441	30~1000	-73.45	-54	Pass
NTNV	ANT1	2441	1000~13000	-48.95	-47	Pass
NTNV	ANT1	2480	30~1000	-73.87	-54	Pass
NTNV	ANT1	2480	1000~13000	-54.08	-47	Pass

NTNV ANT1 2404 30~1000

Ref 0 dBm *Att 0 dB *RBW 100 kHz *VBW 100 kHz *Marker 1 [T1] -74.52 dBm
SWT 100 ms 640.493750000 MHz

0 Offset 1.1 dB

1.98 MA303

01 -54 dBm

Start 30 MHz 97 MHz/ Stop 1 GHz

Date: 5.JUL.2021 12:30:00

NTNV ANT1 2404 1000~13000

Ref 0 dBm *Att 0 dB *RBW 1 MHz *VBW 1 MHz *Marker 1 [T1] -55.05 dBm
SWT 85 ms 2.561800000 GHz

0 Offset 1.1 dB

1.98 MA303

01 -57 dBm

Start 1 GHz 1.2 GHz/ Stop 13 GHz

Date: 5.JUL.2021 12:30:09

NTNV ANT1 2440 30~1000

Ref 0 dBm *Att 0 dB *RBW 100 kHz *VBW 100 kHz *Marker 1 [T1] -73.45 dBm
SWT 100 ms 650.193750000 MHz

0 Offset 1.1 dB

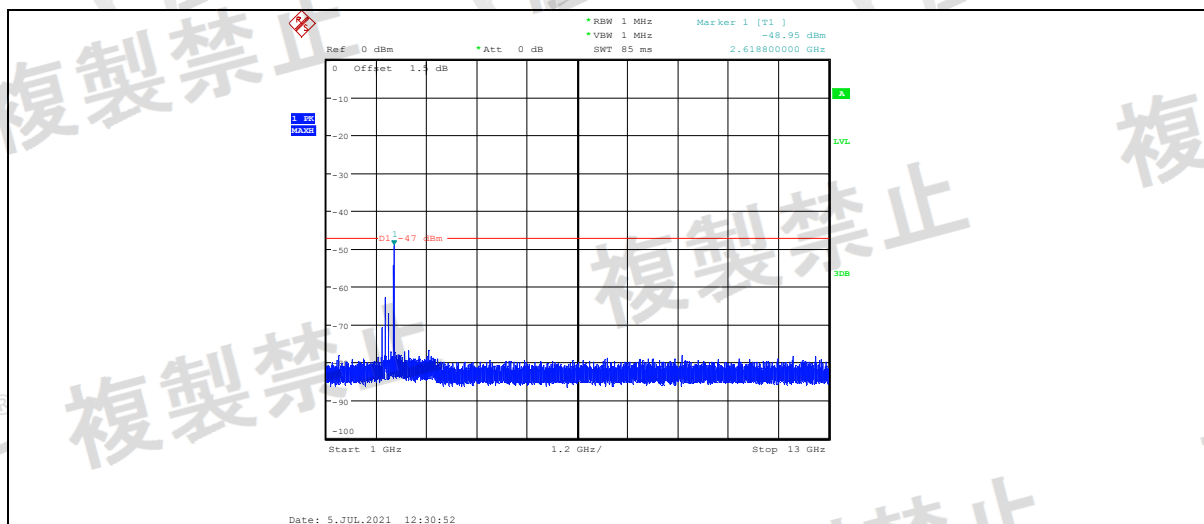
1.98 MA303

01 -54 dBm

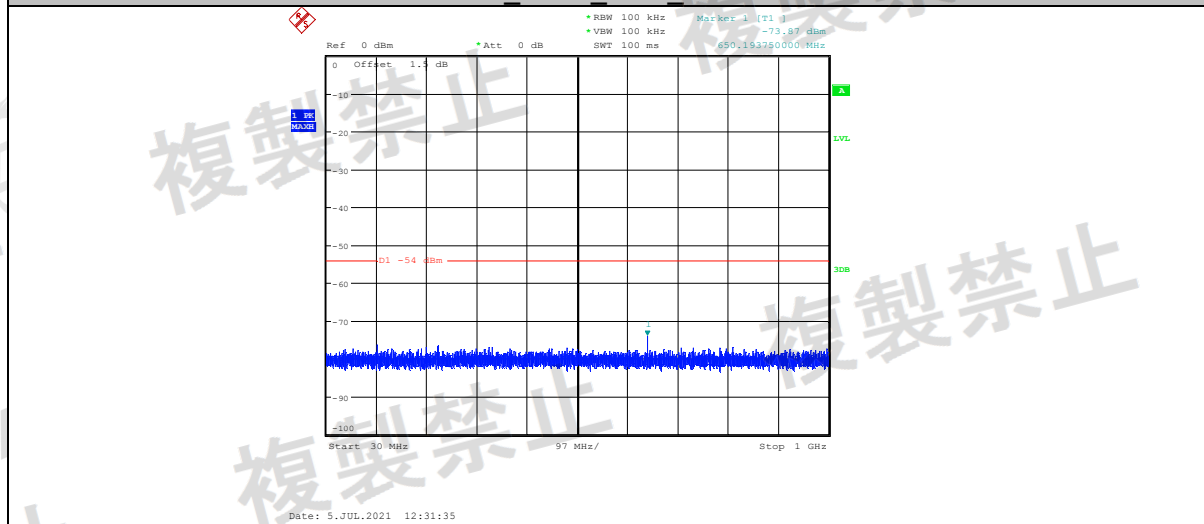
Start 30 MHz 97 MHz/ Stop 1 GHz

Date: 5.JUL.2021 12:30:44

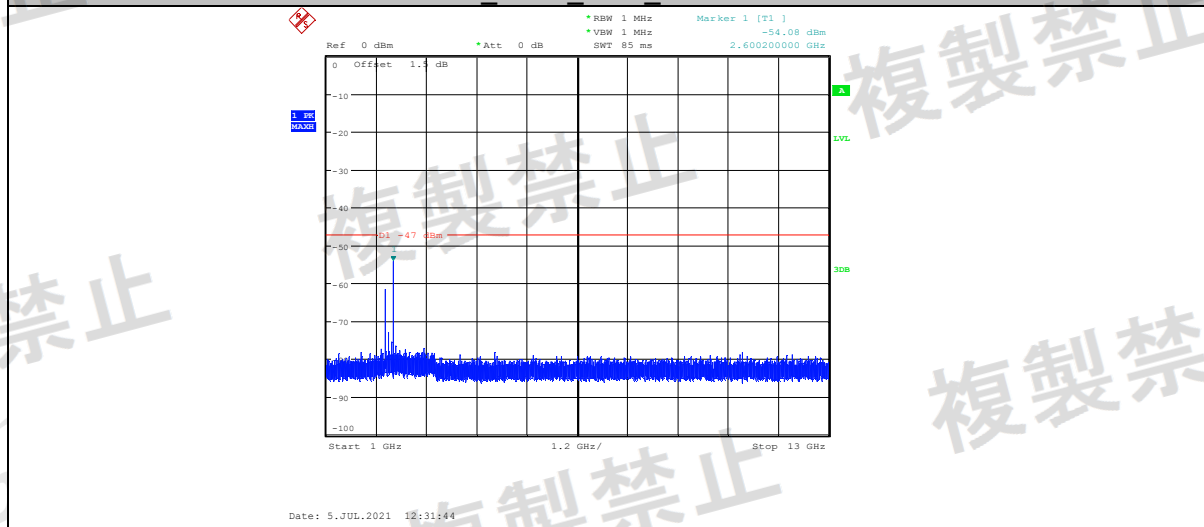
NTNV ANT1 2440 1000~13000



NTNV_ANT1_2476_30~1000



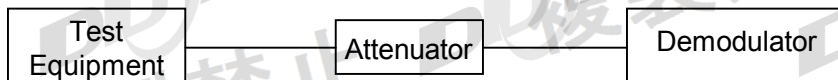
NTNV_ANT1_2476_1000~13000



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.

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

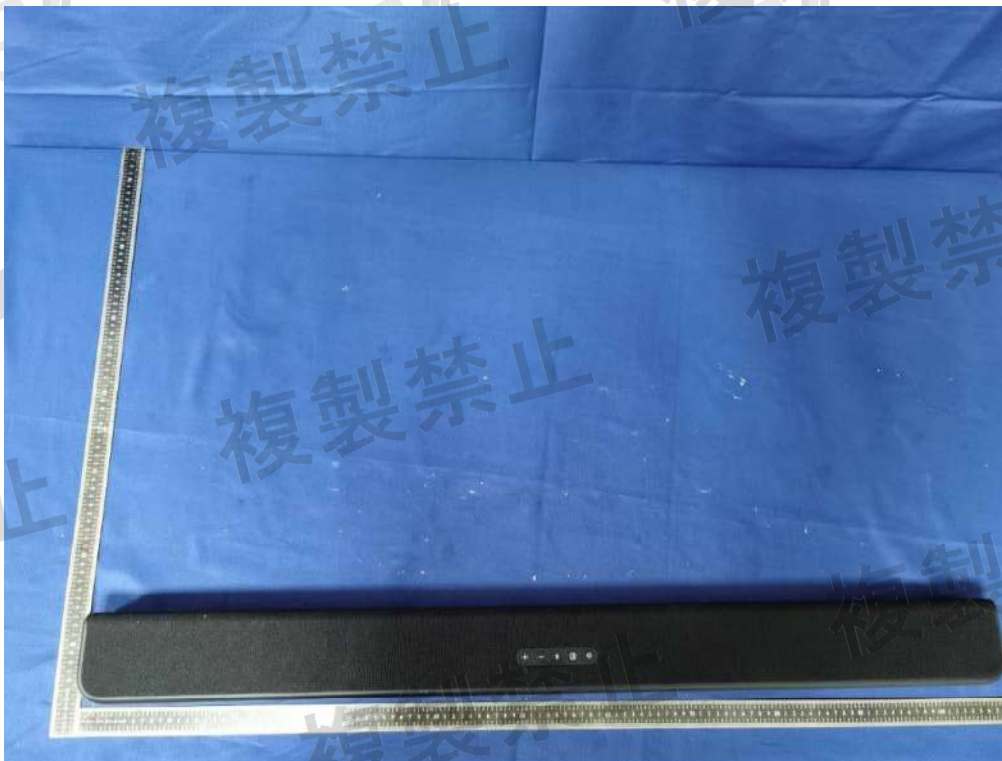
Test result: The unit does meet the requirements.

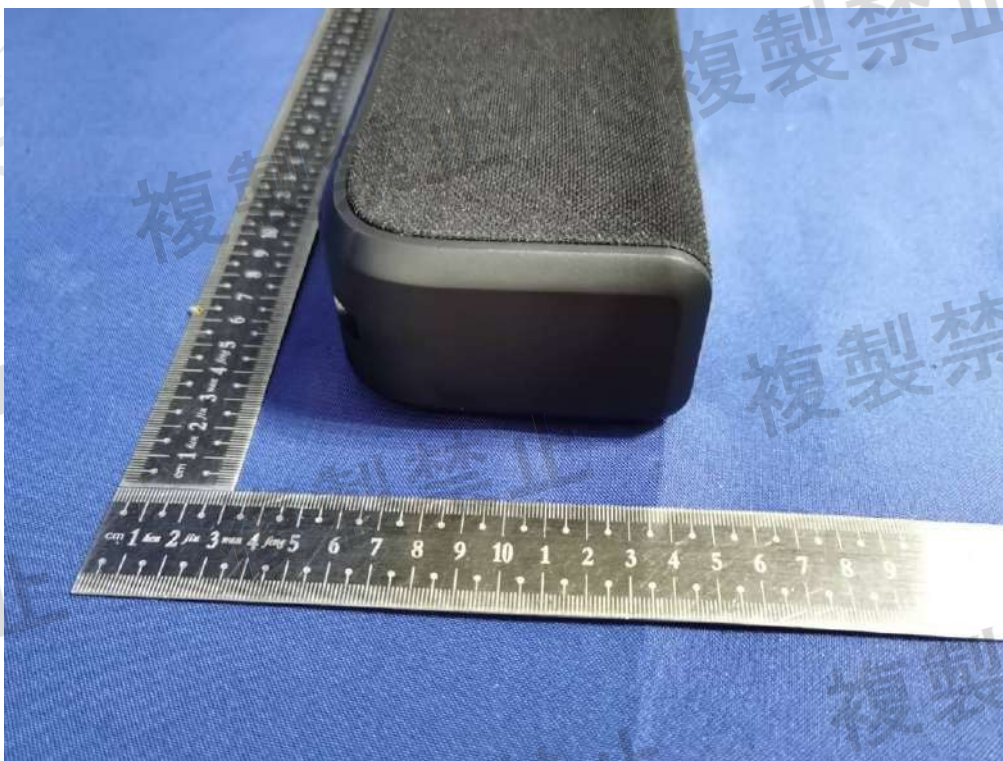
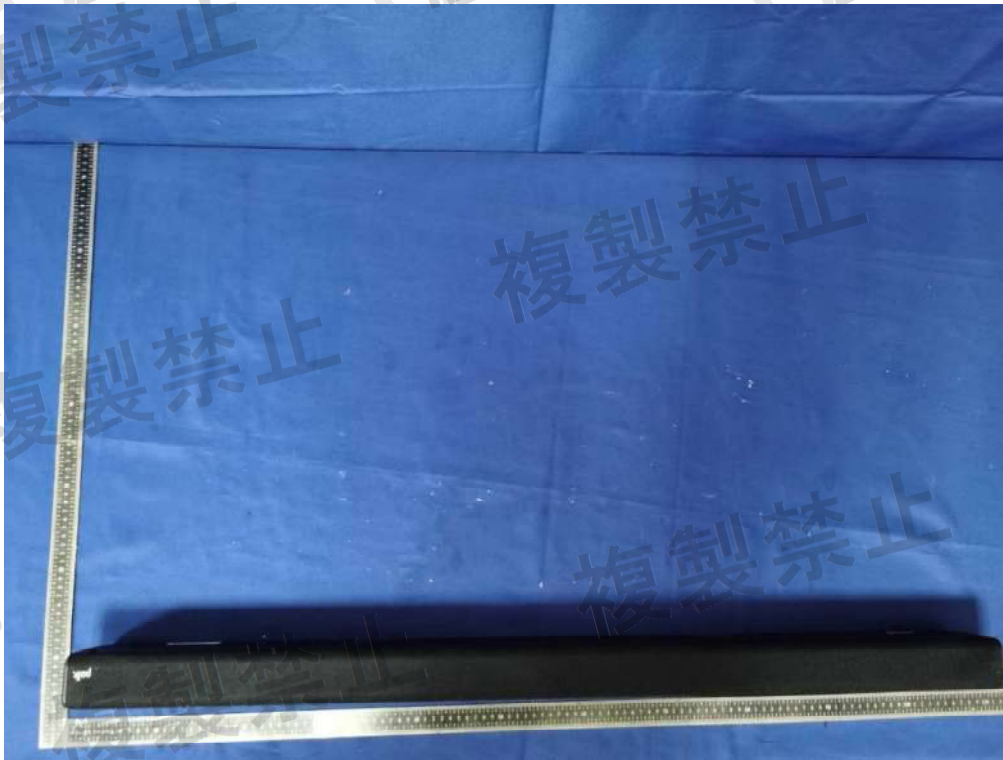
Pass

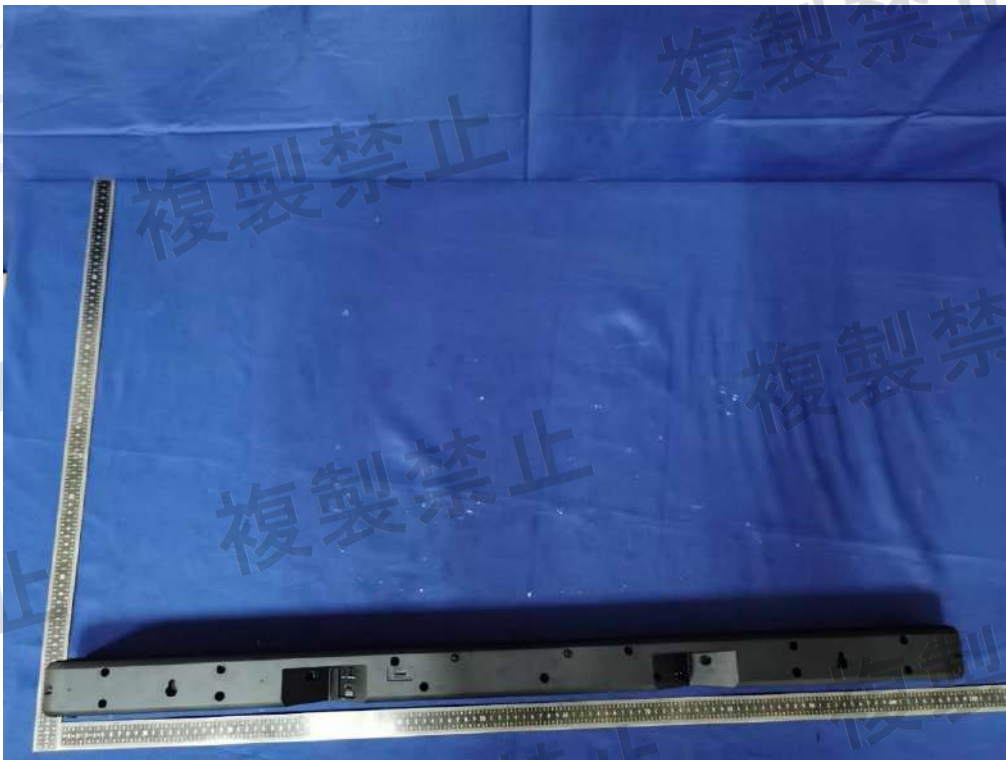
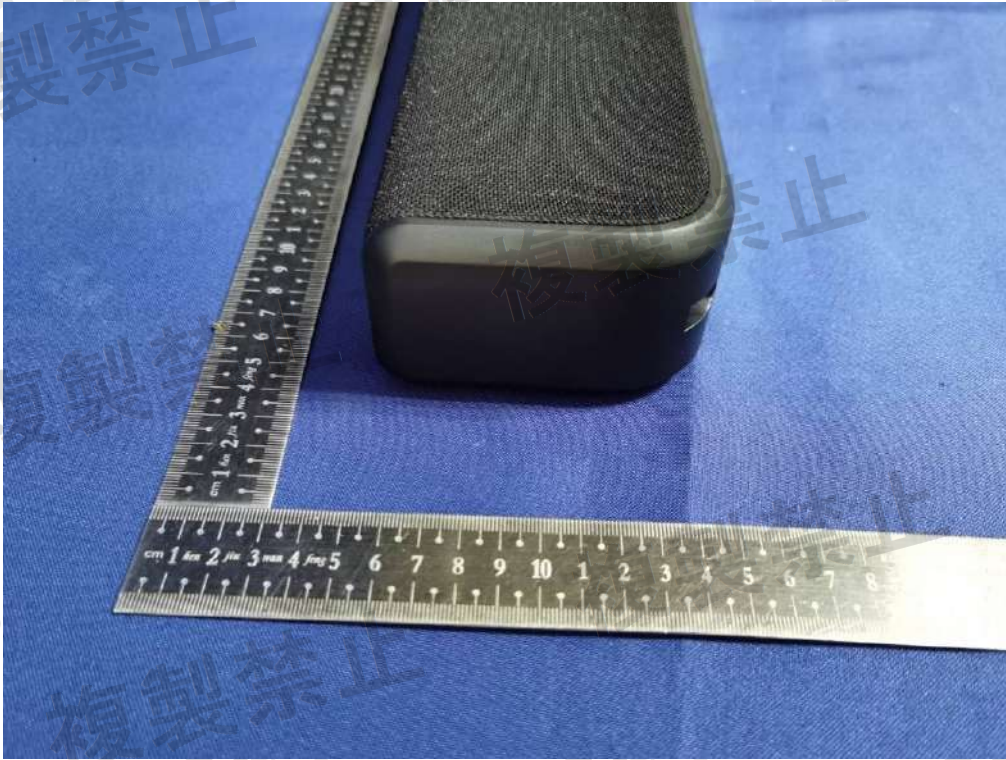
12. Test Setup Photograph

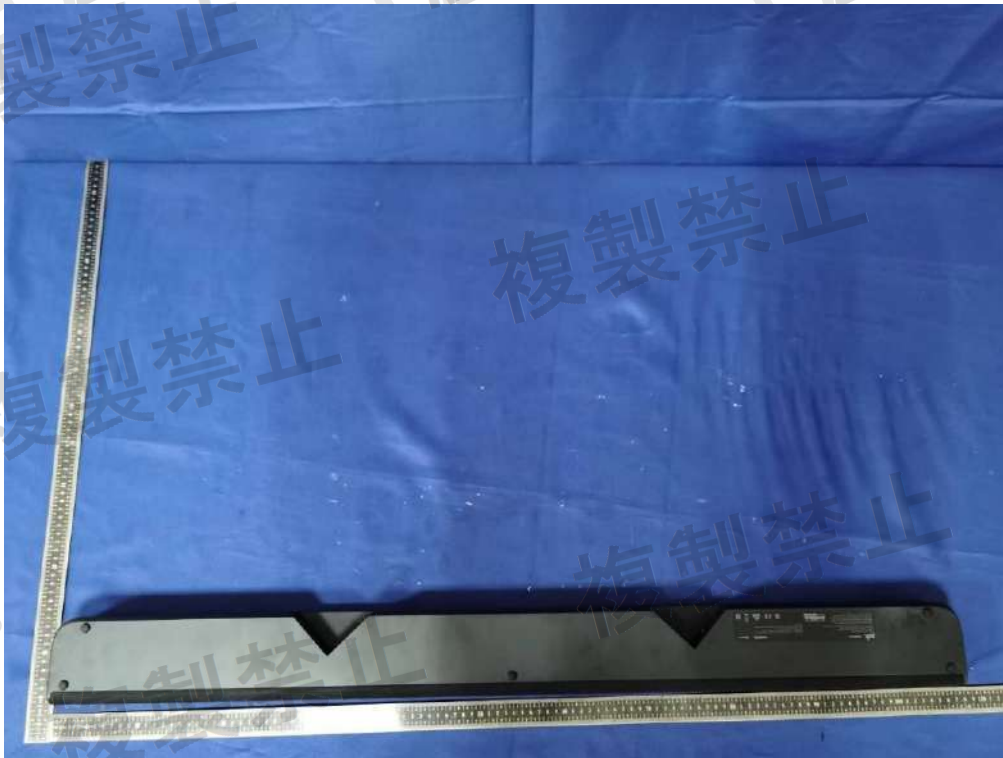


13. Photos of the EUT

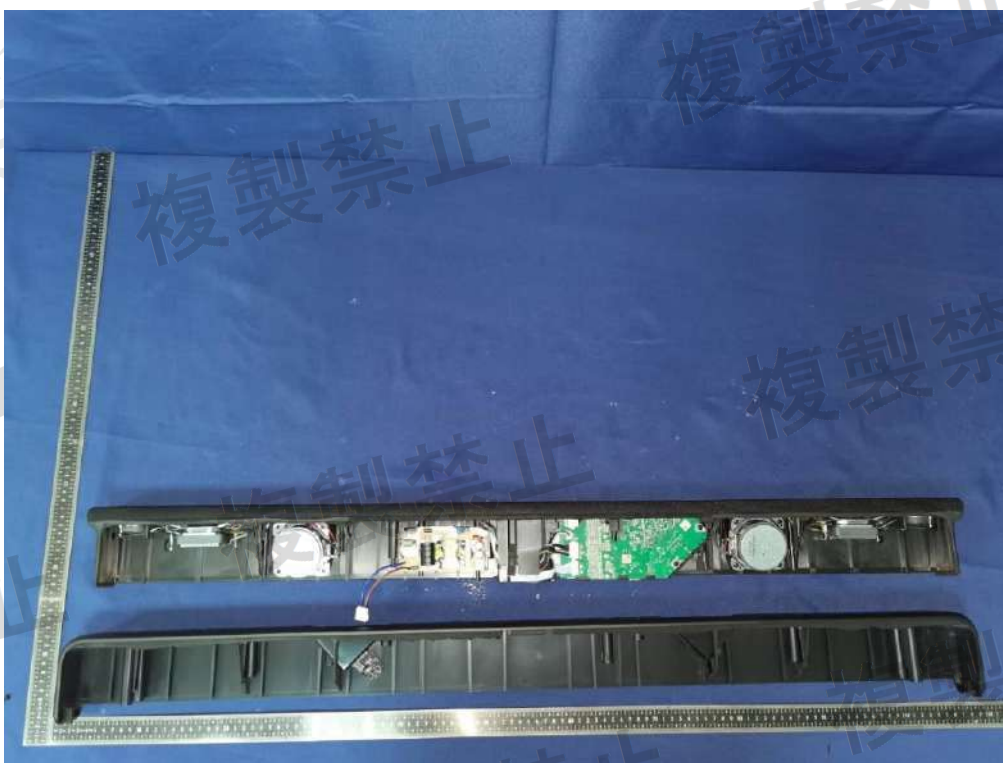
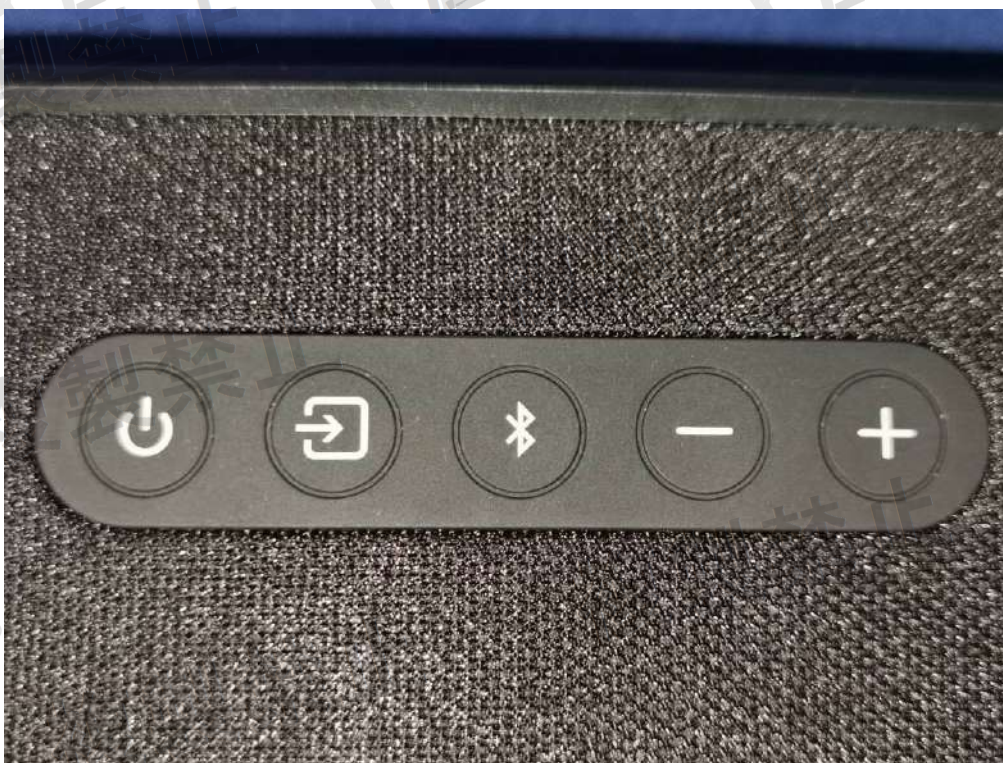


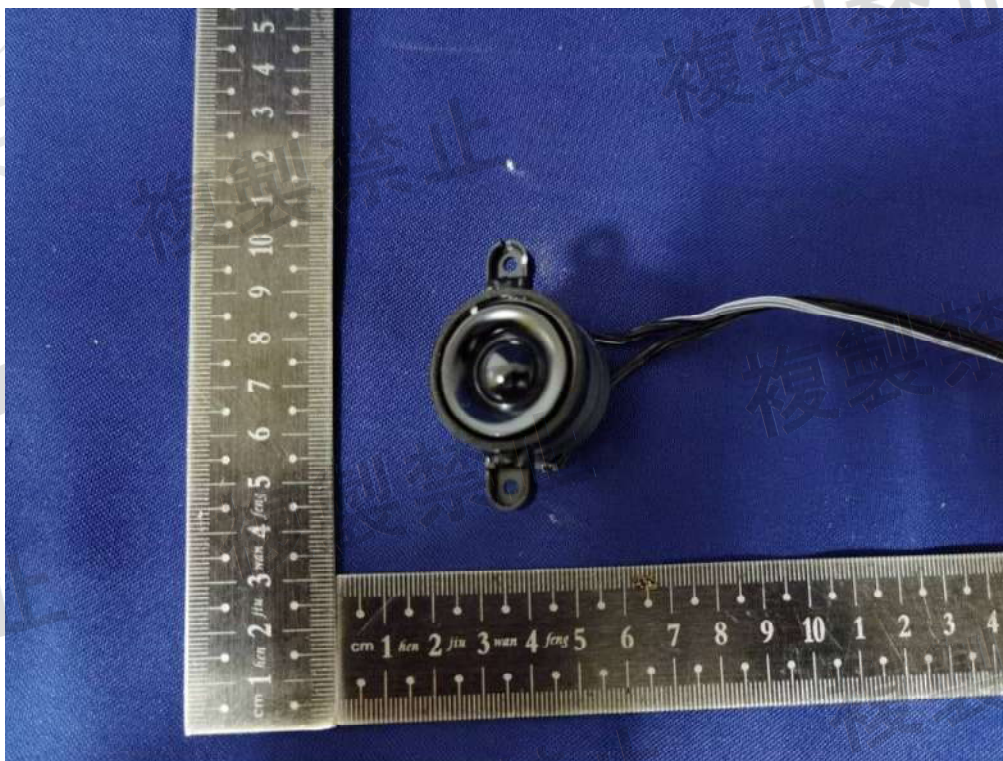
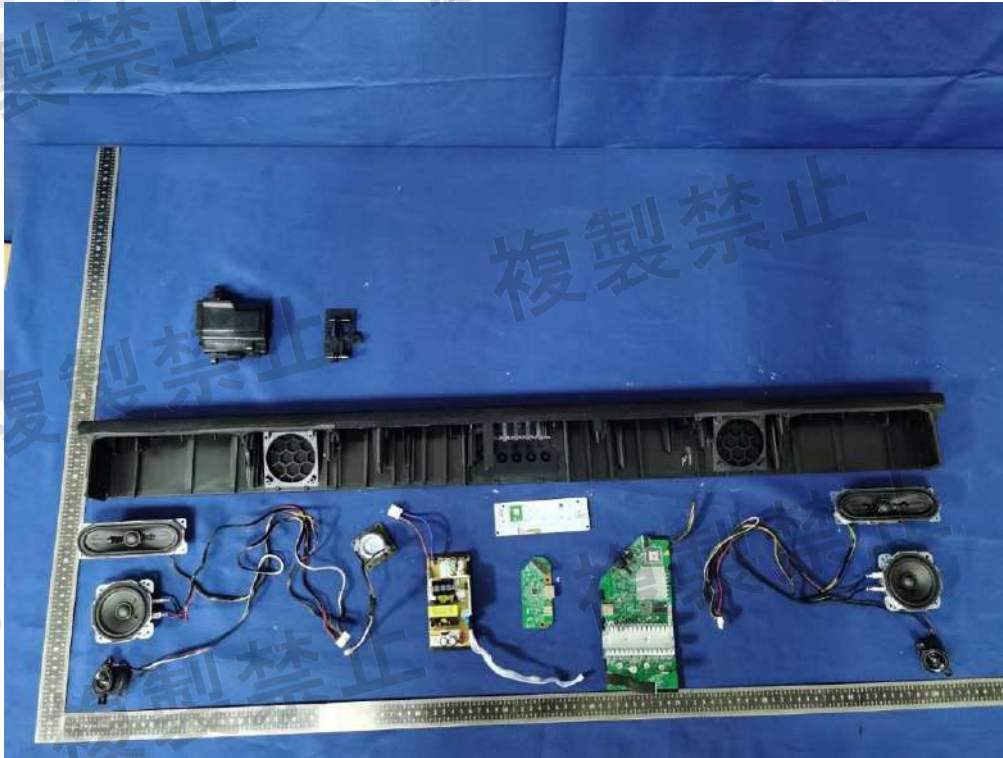


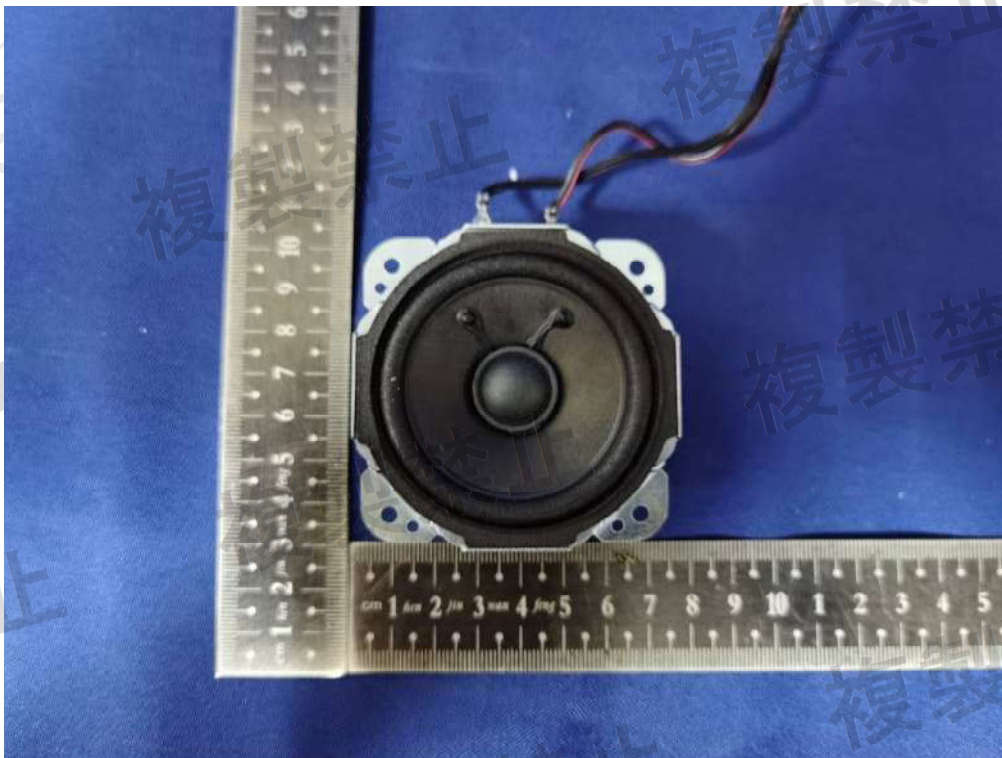
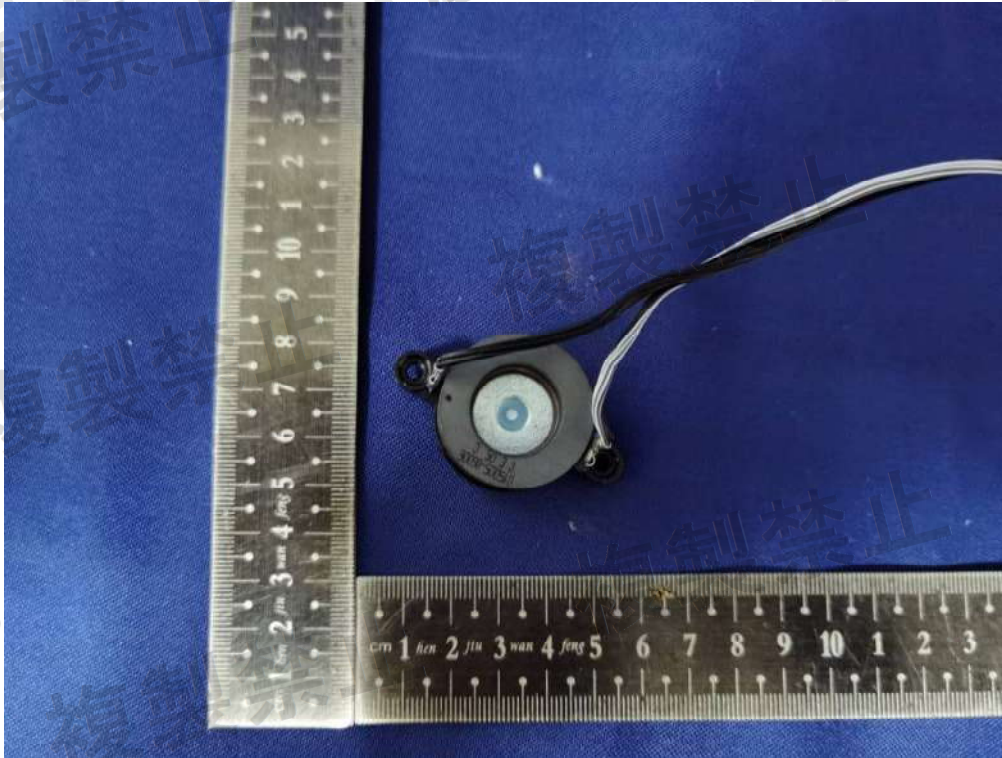


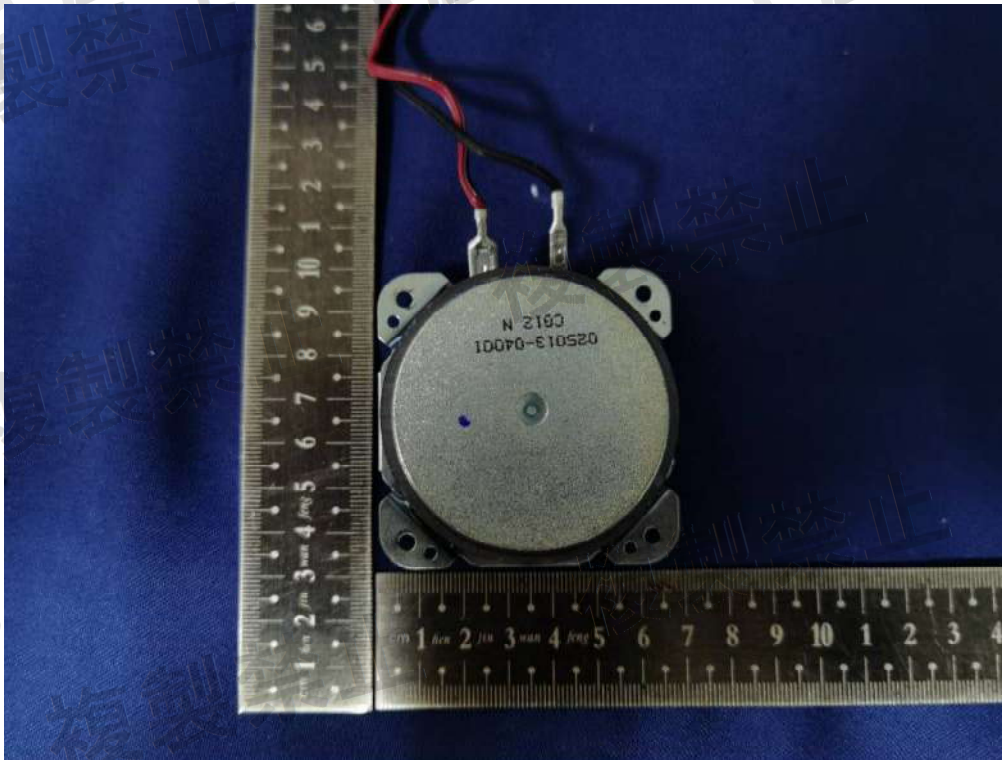


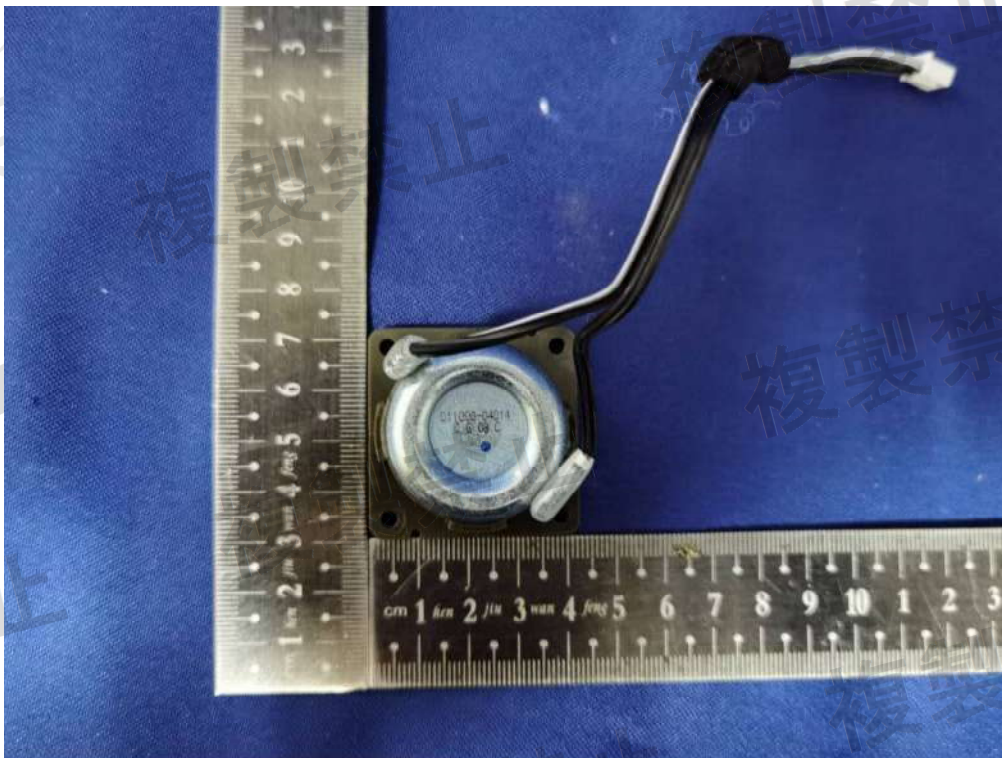
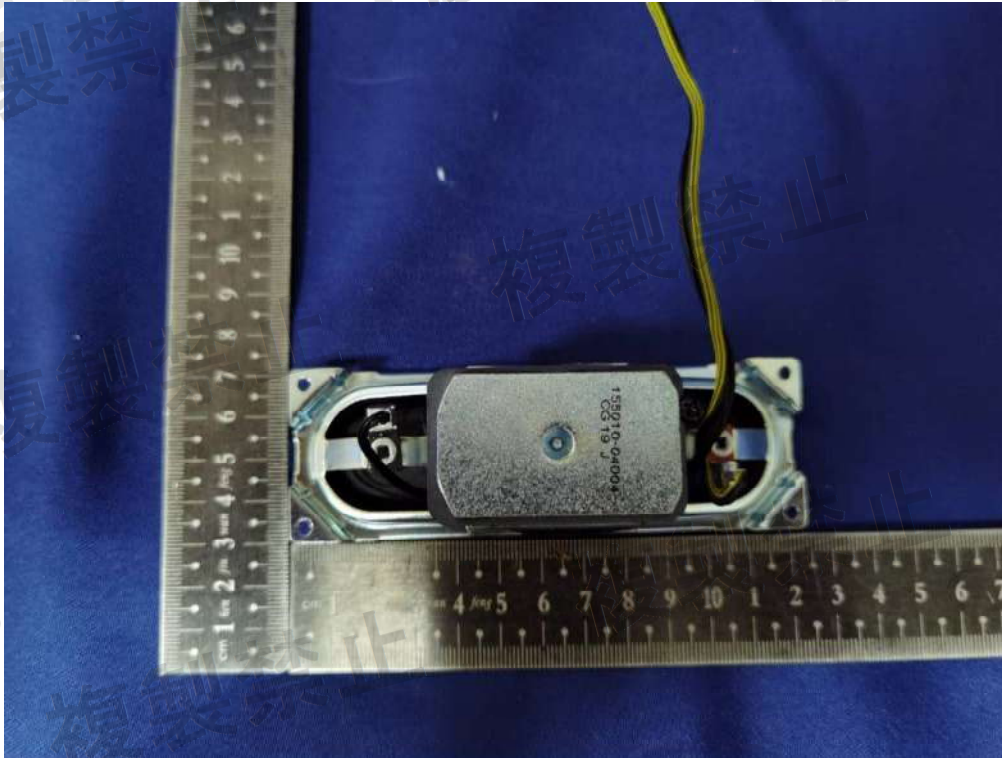


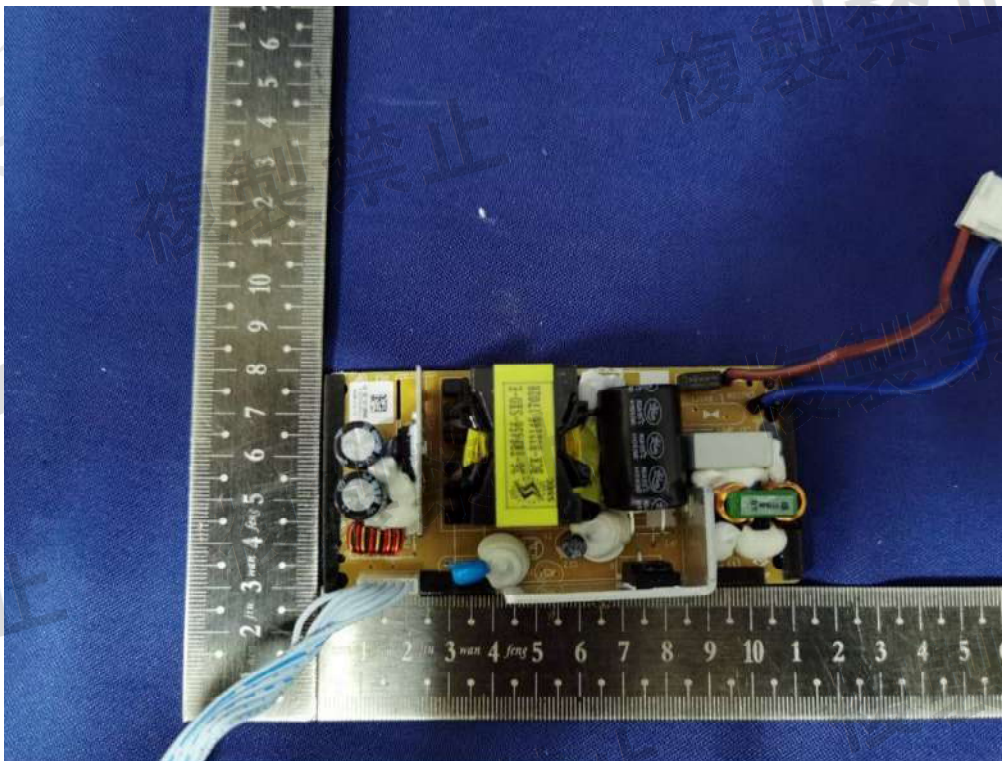
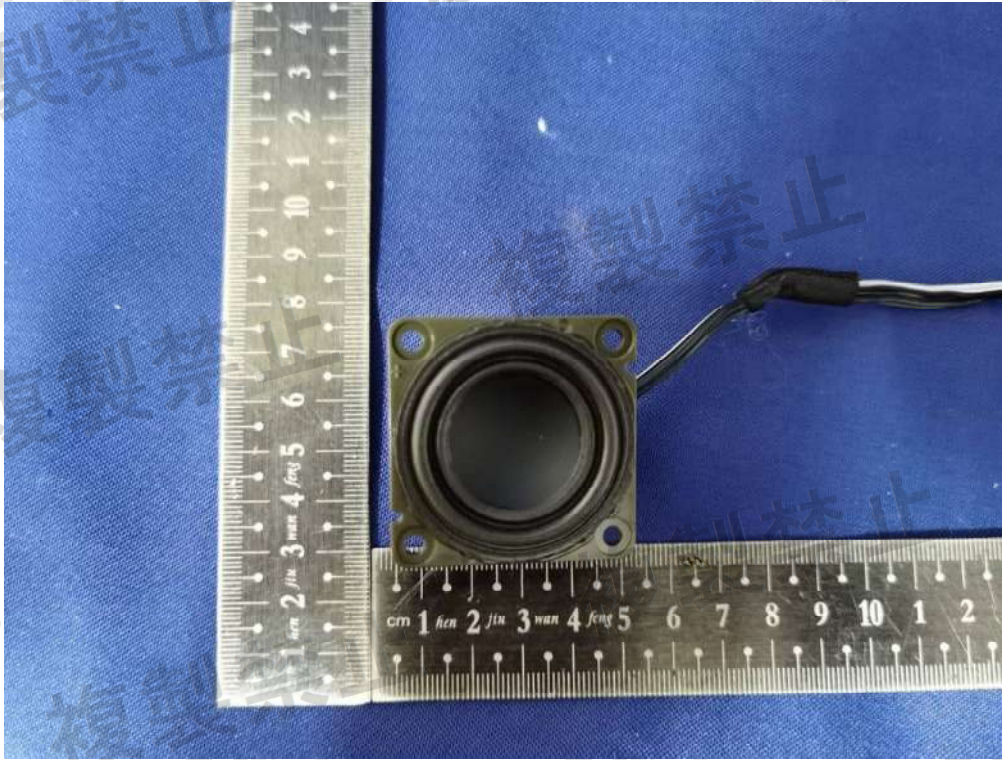


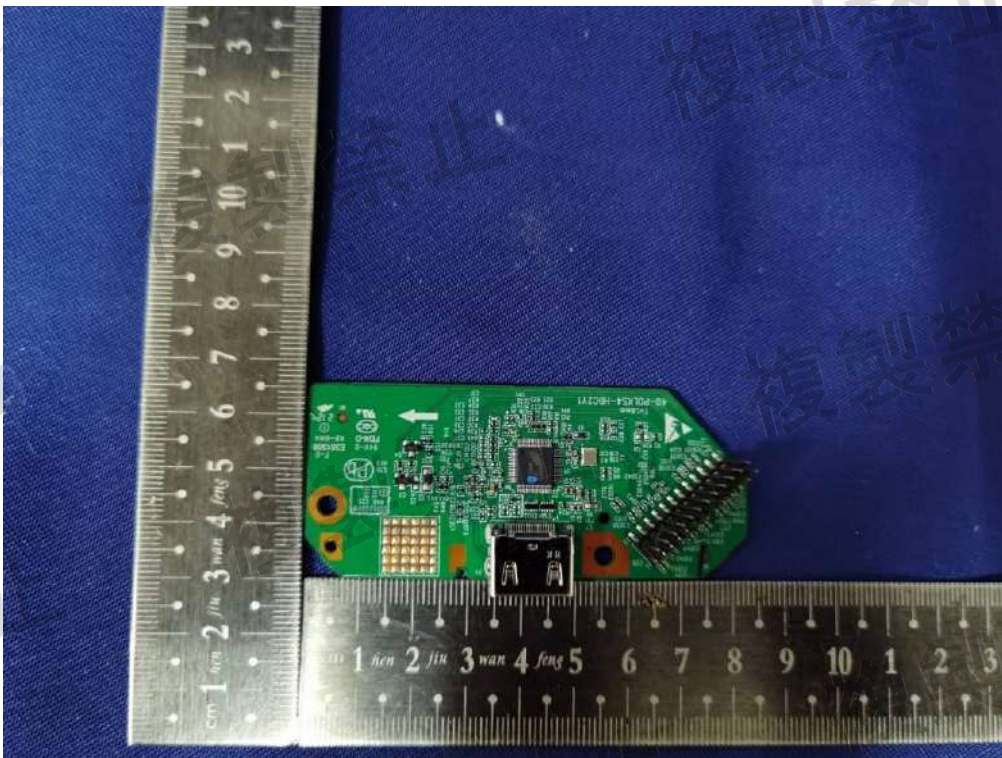
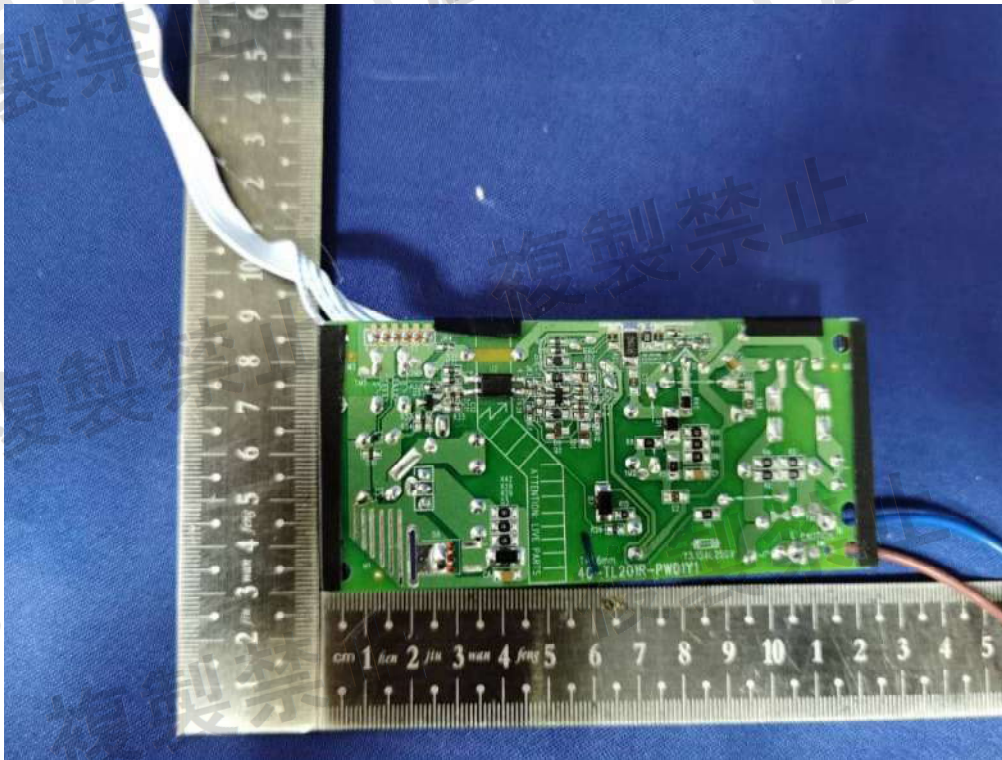


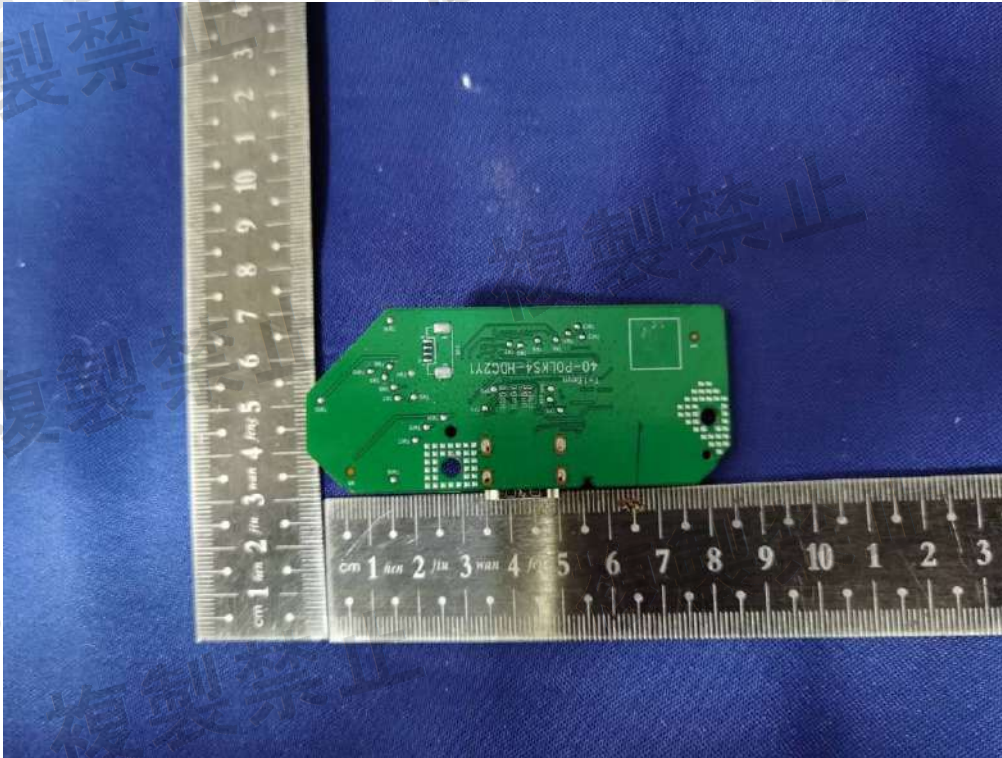






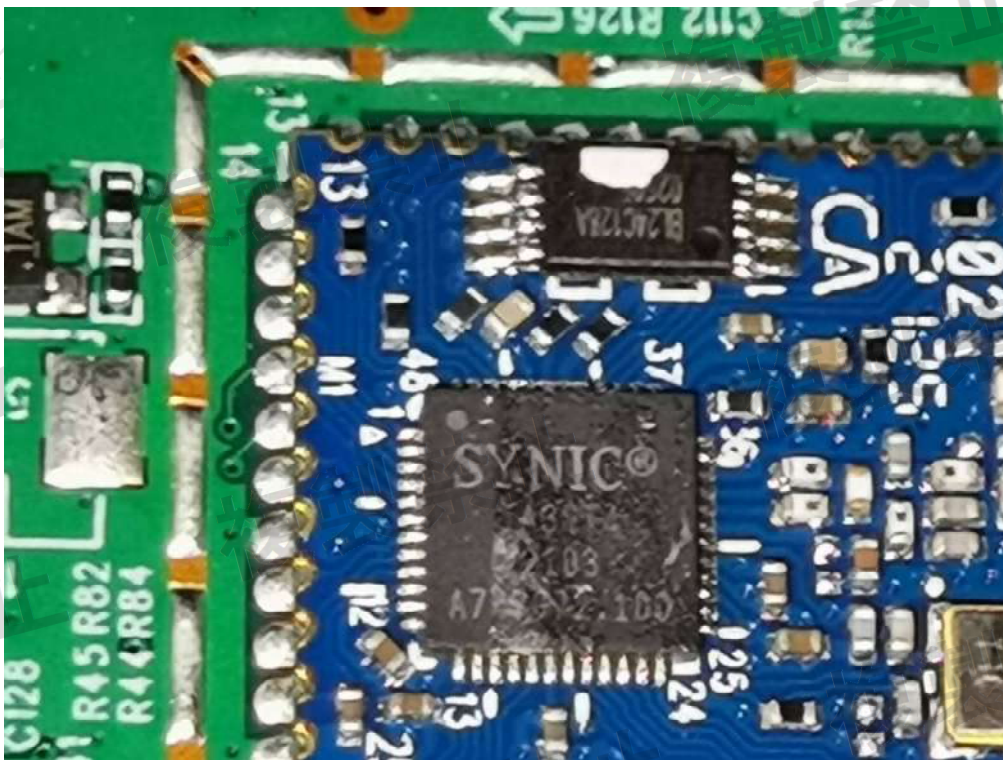


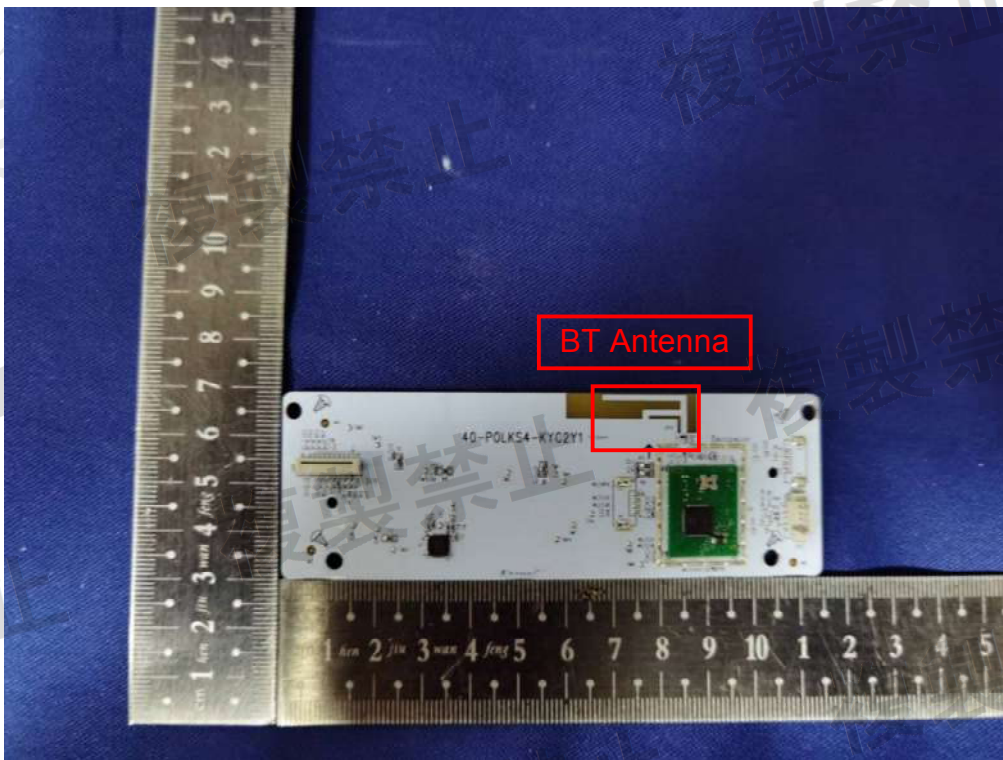




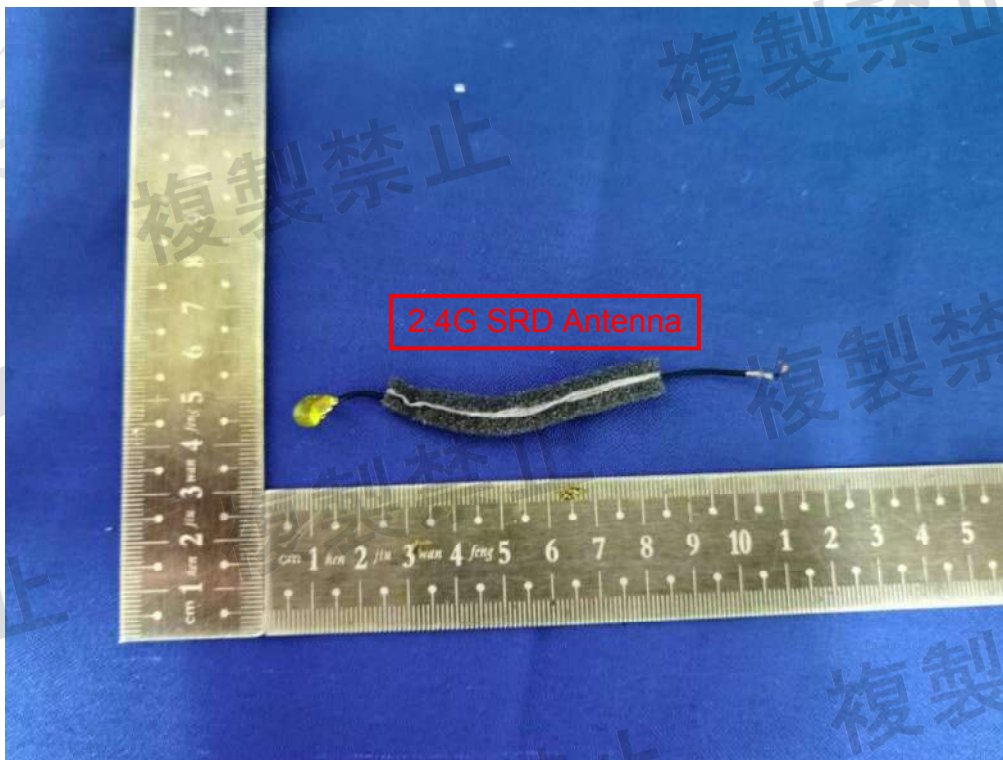
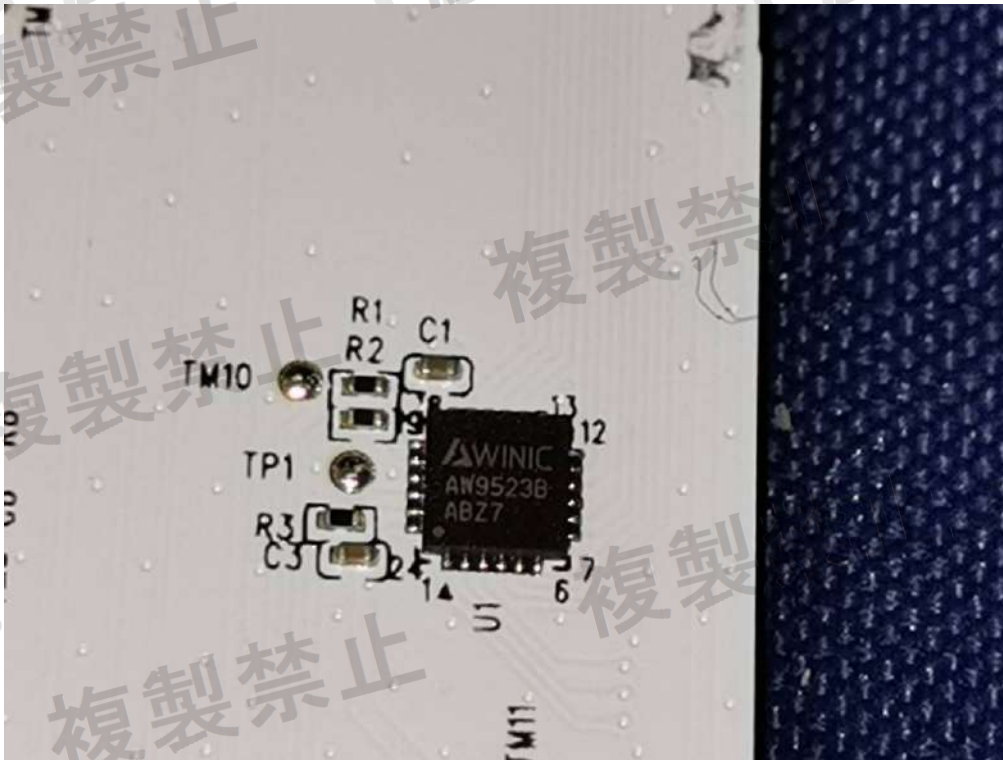


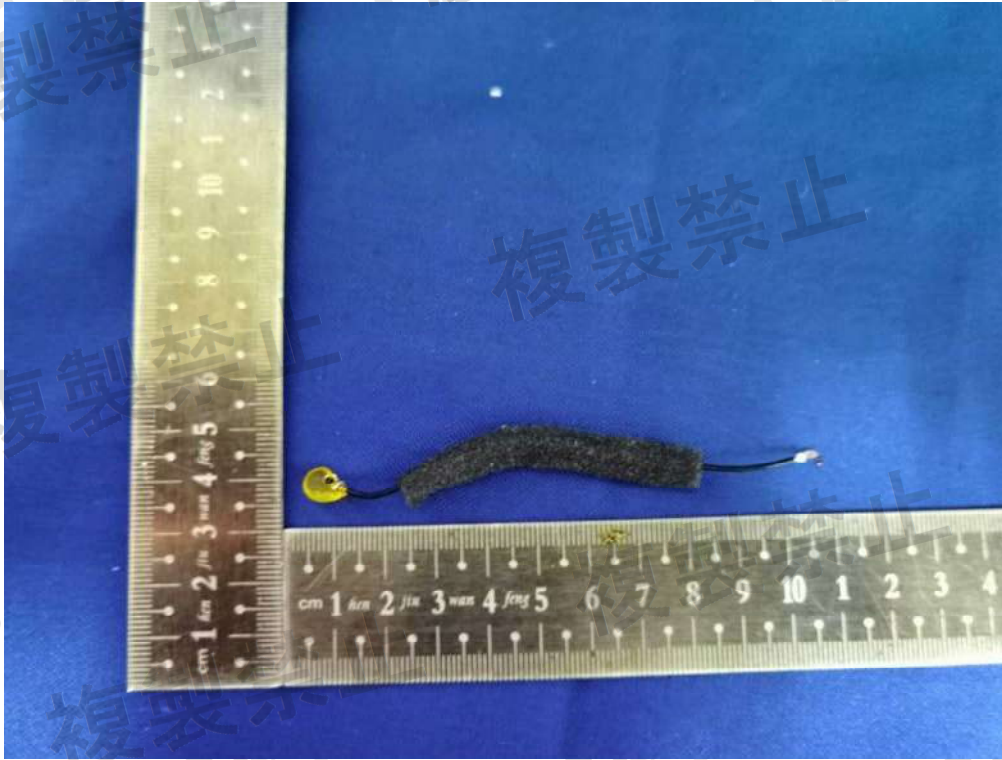














END OF REPORT