TEST REPORT

For

Bluetooth headphones

Model Number: PZR-13

Prepared for	:	Shenzhen Niyin Technology Co., Ltd
Address	:	Room 307, 3rd Floor, Building B, Shunchengji Industrial Park, No. 378 Xuegang North Road, Qinghu Community, Longhua Subdistrict, Longhua District, Shenzhen, China

Prepared by	:	Shenzhen NTT Testing Technology Co.,Ltd.
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Report No.	:	SZNTT26021732E1-2
Date of Test	:	May 20, 2026-Jun. 03, 2026
Date of Report	:	Jun. 03, 2026

Shenzhen NTT Testing Technology Co.,Ltd.

Applicant: **Address:**	Shenzhen Niyin Technology Co., Ltd Room 307, 3rd Floor, Building B, Shunchengji Industrial Park, No. 378 Xuegang North Road, Qinghu Community, Longhua Subdistrict, Longhua District, Shenzhen, China
Manufacturer: **Address:**	Shenzhen Niyin Technology Co., Ltd Room 307, 3rd Floor, Building B, Shunchengji Industrial Park, No. 378 Xuegang North Road, Qinghu Community, Longhua Subdistrict, Longhua District, Shenzhen, China
E.U.T:	Bluetooth headphones
Model Number:	PZR-13
Trade Name:	Warmlife **Serial No.:** -----
Date of Receipt:	May 19, 2026 **Date of Test:** May 20, 2026 -Jun. 03, 2026
Test Specification :	Article2 Paragraph 1, item 19 MIC Notice No.88 Appendix No.43
Test Result:	The equipment under test was found to be compliance with the requirements of the standards applied. **Issue Date:** Jun. 03, 2026

Tested by:	Reviewed by:	Approved by:
Cindy Qin	Ken Wu	Abel Yu
Cindy Qin / Engineer	Ken Wu / Supervisor	Abel Yu / Supervisor

Other Aspects:

None.

Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested

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 Shenzhen NTT Testing Technology Co.,Ltd.

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1. SUMMARY OF TEST RESULTS

1.1. TEST PROCEDURES ACCORDING TO THE TECHNICAL STANDARDS

article 49.20			
Standard Section	Test Item	Judgment	Remark
General provisions			
5	Frequency Error	PASS	
6	Occupied Bandwidth(99%)	PASS	
7	Spurious Emissions Intensity	PASS	
Transmitting equipment			
14	Antenna Power	PASS	
14.2	SAR	N/A	
Transmitting antenna			
20	Type, Configuration, etc., of Transmitting Antenna	PASS	
22	Direction Pattern of Transmitting Antenna (Provided at Individual Antenna Report)	PASS	
Receiving antenna			
24	Limitation of Collateral Emission of Receiver	PASS	
26	Refer to All Articles for Transmitting Antenna	PASS	
Operating frequency 2400~2483MHz			
49.20(1); a	RF Shielding Method	PASS	
49.20(1); a	Communication Method	PASS	
49.20(1); b	Spread-spectrum Method	PASS	
49.20(1); c	Antenna Power	PASS	
49.20(1); d	EIRP power	PASS	
4.7	Transmission Radiation Angle Width (3dB Bandwidth)	N/A	
49.20(1); e	Spread-Spectrum Bandwidth	PASS	
49.20(1); f	Spreading Factor	N/A	
49.20(1); g	Hopping Frequency Dwell Time (FH employed)	PASS	
	INTERFERENCE PREVENTION FUNCTION	PASS	

NOTE:

(1) ” N/A” denotes test is not applicable in this Test Report

(2) MIC Ordinance Regulating Radio Equipment Section 4.17 of Article 49.20

1.2. TEST FACILITY

Site Description

EMC Lab.	:	Accredited by ANAB, Dec. 19, 2025 The Certificate Registration Number is AT-3446
Name of Firm	:	Shenzhen NTT Testing Technology Co., Ltd.
Site Location	:	1B, Building 2, Factory Building & 103, Building 3, Factory Building, Dayang Industrial Park, No.4, Industrial Avenue, Tangwei Community, Fuhai Sub-district, Bao 'an District, Shenzhen City, Guangdong, China

1.3. MEASUREMENT UNCERTAINTY

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 output power, conducted	±1.0dB
Power Spectral Density, conducted	±2.2dB
Radio Frequency	± 1 x 10-6
Bandwidth	± 1.5 x 10-6
Time	±2%
Duty Cycle	±2%
Temperature	±1°C
Humidity	±5%
DC and low frequency voltages	±3%
Conducted Emissions (150kHz~30MHz)	±3.64dB
Radiated Emission(9KHz~30MHz)	±4.51dB
Radiated Emission(30MHz~1GHz)	±5.03dB
Radiated Emission(1GHz~25GHz)	±4.74dB
Remark:When making a conformity declaration based on test results for regulations/standards or specifications,the default is to use Clause 4.2.1of ILAC-G8:09/2019 and the guidelines on decision rules and conformity declaration in IEC Guide 115:2023.	

2. GENERAL INFORMATION

2. 1. GENERAL DESCRIPTION OF EUT

Equipment	Bluetooth headphones
Model Name	PZR-13
Series Model:	N/A
Model Different.:	N/A
Product Description	The EUT is a Bluetooth headphones. Operation Frequency: 2402~2480MHz Modulation Type: FHSS Bit Rate of Transmitter: GFSK, π/4-DQPSK, 8DPSK Number Of Channel: 79 CH Antenna Type: Chip Antenna Antenna Gain(Peak): 1.7dBi Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.
Channel List	Please refer to the Note 2.
Power Source	DC 3.7V by Battery; Charging input: DC 5V
Hardware Version	/
Software Version	/

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2.

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
3	2404MHz	23	2424MHz	43	2444MHz	63	2464MHz
4	2405MHz	24	2425MHz	44	2445MHz	64	2465MHz
5	2406MHz	25	2426MHz	45	2446MHz	65	2466MHz
6	2407MHz	26	2427MHz	46	2447MHz	66	2467MHz
7	2408MHz	27	2428MHz	47	2448MHz	67	2468MHz
8	2409MHz	28	2429MHz	48	2449MHz	68	2469MHz
9	2410MHz	29	2430MHz	49	2450MHz	69	2470MHz
10	2411MHz	30	2431MHz	50	2451MHz	70	2471MHz
11	2412MHz	31	2432MHz	51	2452MHz	71	2472MHz
12	2413MHz	32	2433MHz	52	2453MHz	72	2473MHz
13	2414MHz	33	2434MHz	53	2454MHz	73	2474MHz

14	2415MHz	34	2435MHz	54	2455MHz	74	2475MHz
15	2416MHz	35	2436MHz	55	2456MHz	75	2476MHz
16	2417MHz	36	2437MHz	56	2457MHz	76	2477MHz
17	2418MHz	37	2438MHz	57	2458MHz	77	2478MHz
18	2419MHz	38	2439MHz	58	2459MHz	78	2479MHz
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

3. Table for Filed Antenna

ANT	Brand	Model Name	Antenna Type	Gain (dBi)	NOTE
1	N/A	RANT2012F245X5	Chip Antenna	1.7	N/A

複製禁止

2.2. DESCRIPTION OF TEST MODES

To investigate 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. Then recorded the worst mode (GFSK) in the report.

Pretest Mode	Description
Mode 1	GFSK (CH01 CH40 CH79)
Mode 2	π/4-DQPSK (CH01 CH40 CH79)
Mode 3	8DPSK (CH01 CH40 CH79)
Mode 4	RX

For Radiated Emission	
Final Test Mode	Description
Mode 1	GFSK(CH01 CH40 CH79)
Mode 2	π/4-DQPSK (CH01 CH40 CH79)
Mode 3	8DPSK (CH01 CH40 CH79)
Mode 4	RX

2.3. TEST CONDITIONS

The BT 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
Test Voltage		DC 3.7V	DC 4.07V	DC 3.33V
Module Voltage		DC 3.31V	DC 3.32V	DC 3.31V
Voltage error(%)	Result	Ref.level	0.00302	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.

Temperature:	24 °C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

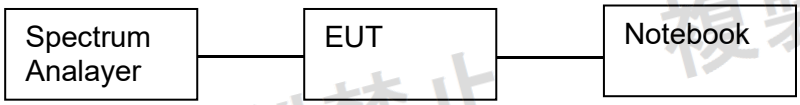
2.4. TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

Test software Version	Seekwave_test		
Frequency	2402MHz	2441 MHz	2480 MHz
Parameters	DEF	DEF	DEF

2.5. BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Mode :



2. 6. 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.

Serial	Equipment	Brand	Model/Type No.	Series No.	Note
1	Bluetooth headphones	/	PZR-13	/	EUT

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”.

2. 7. EQUIPMENTS LIST FOR ALL TEST ITEMS

Test Equipment

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Cal. Date	Calibration Lab	Calibration Method
MXG Signal Analyzer	N9020A	MY50510202	Agilent	2025/9/08	2026/9/07	Guangzhou LiSai Metrology & Test Co. ,Ltd.	c
MXG Vector Signal Generator	N5182A	MY50140020	Agilent	2025/9/08	2026/9/07	Guangzhou LiSai Metrology & Test Co. ,Ltd.	c
Attenuation	PCL-10dB	221126	HTEC	2025/9/08	2026/9/07	Guangzhou LiSai Metrology & Test Co. ,Ltd.	c
MXG Analog Signal Generator	N5181A	MY47420919	Agilent	2025/9/08	2026/9/07	Guangzhou LiSai Metrology & Test Co. ,Ltd.	c
Power Sensor	TR1029-2	512364	Techoy	2025/9/08	2026/9/07	Guangzhou LiSai Metrology & Test Co. ,Ltd.	c
RF Swith	TR1029-1	512364	Techoy	2025/9/08	2026/9/07	Guangzhou LiSai Metrology & Test Co. ,Ltd.	c
Power Meter	ML2495A	10084	Anritu	2025/9/08	2026/9/07	Guangzhou LiSai Metrology & Test Co. ,Ltd.	c

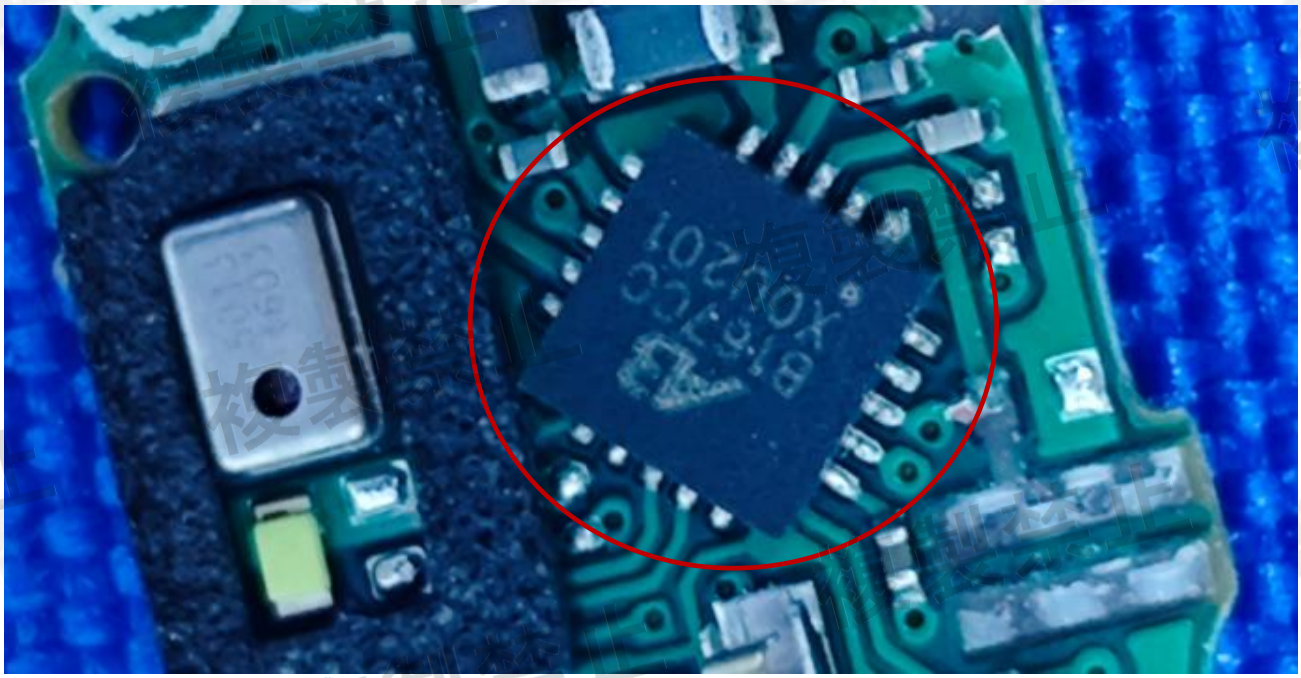
Note: these equipments are Calibration by CEPREI Calibration and Testing Center.

Note: Calibration Method
a)：Calibration conducted by the National Institute of Information and Communications Technology(NICT) or a designated calibration agency under Article 102-18 paragraph (1) of the Radio Law.
b)：Calibration conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) Japan Calibration Service System.
c)：Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
d)：Calibration conducted by using other equipment that listed above from a) to c).

3. RF SHIELDING METHOD

We apply the product for Japan RF certification. The RF chip is soldered on theInternal. making it very difficult for anyone to remove it.Number of RF chip pins:20, spacing distance:1.1mm(please see picture 1).

picture 1



4. TEST RESULT FOR BLUETOOTH

4. 1. FREQUENCY ERROR

4. 2. LIMIT

Item	Limits
Frequency Error	±50ppm

4. 3. MEASURING INSTRUMENTS AND SETTING

The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	10KHz/10KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4. 4. TEST PROCEDURES

(1)In the case of unmodulated signal (continuous or continuous burst), measure the frequency directly by a frequency meter.

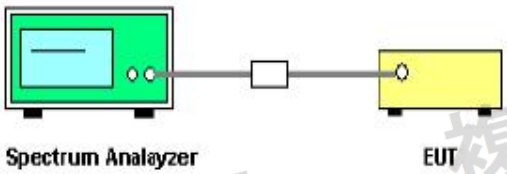
(2)In the case of burst waves, the measurement shall be done for enough time in order to obtain the enough measuring accuracy, and the average of the measured values becomes the final value.

(3)In the case of a test mode with a specific frequency spectrum, measure the frequency of the specific spectrum by a spectrum analyzer.

(4)In the cases above, if the frequency equivalent to the test frequency is not directly measured in principle, it shall be obtained by necessary calculation.

In the case of modulated signal, if there is no specific spectrum measurable by a spectrum analyzer but a specific dip is observed, it is allowed to measure the frequency with the signal generator (synthesized). That is, observe a signal of the signal generator concurrently (or alternately) with the tested signal using the spectrum analyzer while setting the frequency of the signal generator to the position of the dip on the screen of the spectrum analyzer, and determine the frequency of the signal generator at the time as a measured value.

4. 5. TEST SETUP LAYOUT



4. 6. TEST RESULT

Please see the attachment for data.

5. ANTENNA POWER

5. 1. LIMIT

Item	Limits
Antenna Power Density	≦3mW/MHz (FH form 2402 - 2480 MHz) ≦10mW/MHz (OFDM,DS from2400~2483.5MHz) ≦10mW (Other from 2400~2483.5MHz)
Antenna Power Error	+20%(Base on manufacturer declare antenna power density)
EIRP Power	6.91 dBm/MHz

5. 2. TEST PROCEDURES

1. The EUT was directly connected to the power meter.
2. The EUT was set to frequency hopping mode.

5. 3. TEST SETUP LAYOUT

5. 4. EST DEVIATION

There is no deviation with the original standard.

5. 5. TEST RESULT

Please see the attachment for data.

6. OCCUPIED BANDWITH (99%&90%)

6. 1. LIMIT

Item	Limits
Occupied Band Width:	FH 83.5MHz; OFDM,DS ≦26MHz;Others≦ 26MHz

6. 2. MEASURING INSTRUMENTS AND SETTING

6. 3. TEST PROCEDURES

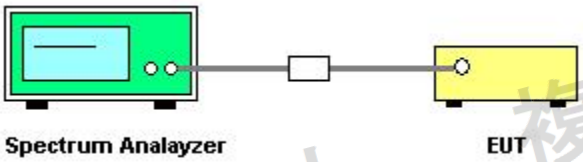
For 99%BW

1. Setting of SA is following as: RB: 1MHz / VB:1MHz / SPAN: 120MHz / AT: 30dB Ref: 21.96dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
2 . 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 26MHz(For DSSS or OFDM Device) or 83.5MHz(For FHSS Device).

For 90%BW

1. Setting of SA is following as: RB: 300kHz / RB: 300kHz / SPAN: 120MHz / AT: 30dB Ref: 21.96dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
2 . EUT have transmitted the maximum modulation signal and continuous maximum power of hopping mode.
3. SA set to 90% of occupied bandwidth to measure Spread Spectrum Bandwidth.

6. 4. TEST SETUP LAYOUT



6. 5. TEST DEVIATION

There is no deviation with the original standard.

6. 6. EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

6. 7. TEST RESULT

Please see the attachment for data.

7. UNWANTED EMISSION INTENSITY MEASUREMENT

7.1. LIMIT

Item	Limits
TX Spurious Emission	≦ 2.5 μW/MHz(-26dBm/MHz) (30MHz≦f≦1000MHz)
	≦2.5 μW/MHz(-26dBm/MHz) (1000MHz<f≦2387MHz)
	≦25 μW/MHz(-16dBm/MHz) (2387MHz<f≦2400MHz)
	≦25 μW/MHz(-16dBm/Mhz) (2483.5MHz≦f<2496.5MHz)
	≦2.5 μW/MHz(-26dBm/MHz) (2496.5MHz≦f<12500MHz)

7.2. MEASURING INSTRUMENTS AND SETTING

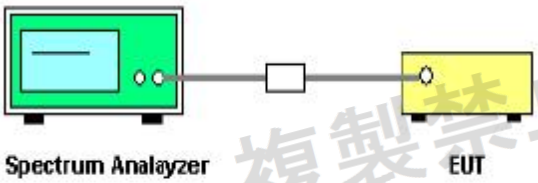
Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Below 1G	Above 1G
	Setting	Setting
Attenuation	Auto	Auto
RB / VB	100kHz	1MHz
Detector	Peak	Peak
Trace	Max Hold	Max Hold
Sweep Time	Auto	Auto

7.3. 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: Auto Ref: 20dBm / 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 0.25μW/MHz.
4. Setting of SA is following as 1000MHz and stop frequency 2387MHz Then to mark peak reading value + cable loss shall be less than 2.5μW/MHz.
5. SA adjusted to start frequency 2387MHz and stop frequency 2400MHz. Then to mark peak reading value + cable loss shall be less than 25μW/MHz.
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 25μW/MHz.
7. SA adjusted to start frequency 2496.5MHz and stop frequency 12500MHz Then to mark peak reading value + cable loss shall be less than 2.5μW/MHz.
8. Measure side band spurious as follows: For 2.4GHz band: 2374MHz~2400MHz and 2483.5MHz~2509.5MHz RBW = VBW = 30kHz, Result_Value = Meaured_ 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.

7.4. TEST SETUP LAYOUT



7.5. TEST DEVIATION

There is no deviation with the original standard.

7.6. TEST RESULT

Please see the attachment for data.

8. DWELL TIME

8. 1. LIMIT

Item	Limits
Hopping Freq. Dwell Time	≦ 0.4 sec (In 0.4 sec × spreading rate)

8. 2. MEASURING INSTRUMENTS AND SETTING

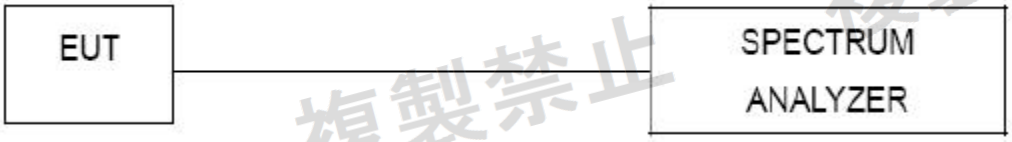
Please refer to section 5 in this report. The following table is the setting of the spectrum analyzer.

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

8. 3. TEST PROCEDURES

a. The transmitter output (antenna port) was connected to the spectrum analyzer
b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
d. Sweep Time is more than once pulse time.
e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
f. Measure the maximum time duration of one single pulse.
g. Set the EUT for packet transmitting.
h. Measure the maximum time duration of one single pulse.
I. Pulse Time(ms)*Burst Count=Total Dwell Time.

8. 4. TEST SETUP LAYOUT



8. 5. TEST RESULT

Please see the attachment for data.

9. CARRIER SENSE

Not applicable

10. IMITATION OF COLLATERAL EMISSION OF RECEIVER MEASUREMENT

10. 1. LIMIT

Item	Limits
RX Spurious Emission:	≦4nW(-54dBm) (f<1GHz)
	≦20nW(-47dBm) (1GHz≦f)

10. 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	Setting
	Below 1GHz	Above 1GHz
Attenuation	Auto	Auto
RB	100 kHz	1 MHz
VB	100 kHz	1 MHz
Detector	Peak	Peak
Trace	Max Hold	Max Hold
Sweep Time	Auto	Auto

10. 3. TEST PROCEDURES

1. EUT have the continuous reception mode 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: Auto / 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 < 1GHz, 2nW for f >= 1GHz), 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.

10. 4. TEST RESULT

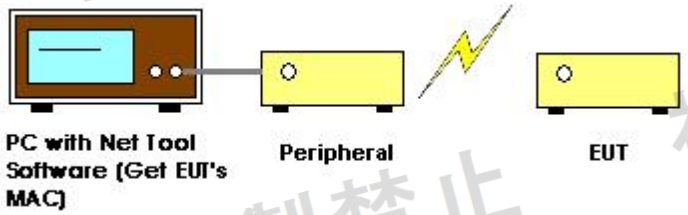
Please see the attachment for data.

11. SPREADING FACTOR

Not applicable

12. INTERFERENCE PREVENTION FUNCTION

12. 1. TEST SETUP



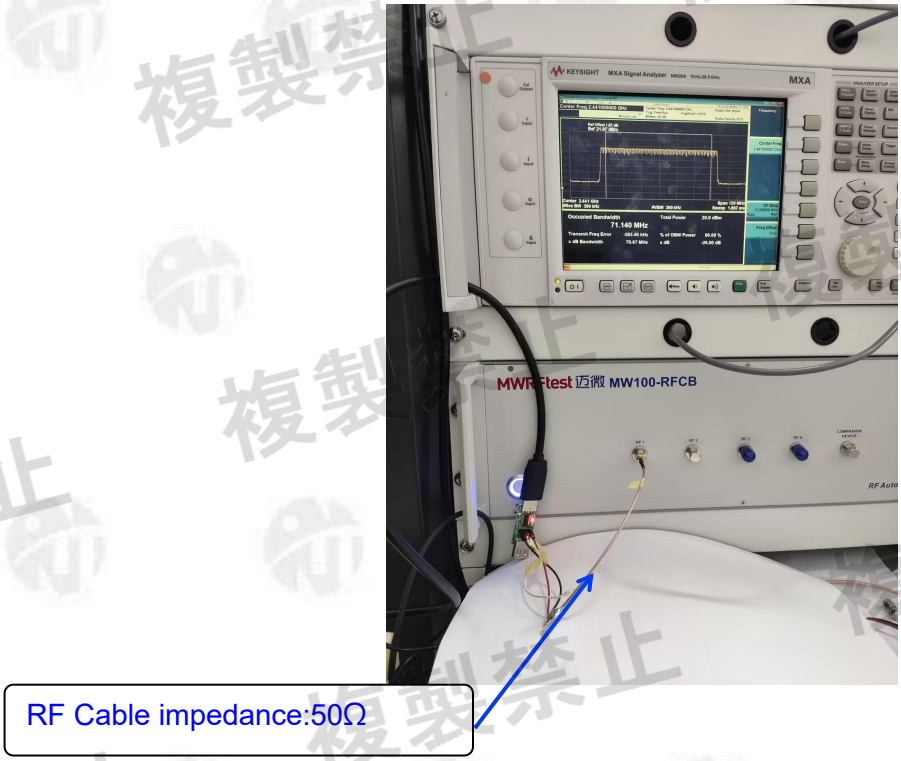
12. 2. RADIO INTERFERENCE PREVENTION FUNCTION

	Normal voltage	High voltage	Low voltage
Result	OK	OK	OK

MAC:0A:0E:2B:01:05:FC:2D
Result: Pass

13. EUT TEST PHOTO

Measurement Photos



14. EUT CONSTRUCTIONAL DETAILS

Please see EUT Photo for details.

*****the end of report*****

複製禁止