# TEST REPORT

| | |
|---|---|
| **Report No.:** | 8328EU012507W |
| **Applicant:** | Shenzhen Rango Innovation Technology co., Ltd. |
| **Address:** | 3/F, block A, Coolpad building, Gaoxin North 1st Road, Nanshan District, Shenzhen, Guangdong, China |
| **Product Name:** | Storm A2 Wireless Gaming Headset |
| **Model No.:** | StormA2 |
| **Trademark:** | OXS |
| **Test Standard(s):** | MIC Notice No.88 Appendix No.43<br>Ordinance of MPT No.37, 1981:<br>Article 2 paragraph 1 item (19) |
| **Test Result:** | Pass |
| **Date of Receipt:** | Mar. 25, 2025 |
| **Test Date:** | Mar. 25, 2025 – Apr. 24, 2025 |
| **Date of Issue:** | Apr. 28, 2025 |

**ISSUED BY:**

SHENZHEN EU TESTING LABORATORY LIMITED

SHENZHEN EU TESTING LABORATORY LIMITED APPROVED

**Prepared by:** **Reviewed and Approved by:**

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# Revision Record

| Report Version | Issued Date | Description | Status |
|---|---|---|---|
| V0 | Apr. 28, 2025 | Original | Valid |
| | | | |
| | | | |

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# 2 General Information

## 2.1 Applicant Information

| | |
|---|---|
| Applicant | Shenzhen Rango Innovation Technology co., Ltd. |
| Address | 3/F, block A, Coolpad building, Gaoxin North 1st Road, Nanshan District, Shenzhen, Guangdong, China |

## 2.2 Manufacturer Information

| | |
|---|---|
| Manufacturer | Shenzhen Rango Innovation Technology co., Ltd. |
| Address | 3/F, block A, Coolpad building, Gaoxin North 1st Road, Nanshan District, Shenzhen, Guangdong, China |

## 2.3 Factory Information

| | |
|---|---|
| Factory | Dongguan Lule Electronic Technology Co.,Ltd |
| Address | Building 3, No. 12 Longhua Road, Dongcheng Street, Dongguan, Guangdong, China |

## 2.4 General Description of E.U.T.

| | |
|---|---|
| Product Name | Storm A2 Wireless Gaming Headset |
| Model No. Under Test | StormA2 |
| List Model No. | N/A |
| Description of Model differentiation | N/A |
| Rating(s) | Input: 5V⎓0.5A<br>Battery Capacity: 3.7VDC, 1000mAh, 3.7Wh |
| Product Type | ☐ Mobile<br>☒ Portable<br>☐ Fix Location |
| Test Sample No. | -1/2(Normal Sample), -2/2(Engineering Sample) |
| Hardware Version | V1.3 |
| Software Version | V1.0 |
| Remark | For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. |

## 2.5 Technical Information of E.U.T.

| | |
|---|---|
| Network and Wireless Connectivity | Bluetooth (BDR+EDR) |

The requirement for the following technical information of the EUT was tested in this report:

| | |
|---|---|
| Technology | **Bluetooth** |
| Operation Mode | ☒ BDR ☒ EDR ☐ BLE |
| Modulation Type | GFSK, π/4DQPSK, 8DPSK |
| Operating Frequency | 2402-2480MHz |
| Transfer Rate | DH5: 1 Mbps<br>2DH5: 2 Mbps<br>3DH5: 3 Mbps |
| Number of Channel | 79 |
| Antenna Type | Ceramic Antenna |
| Antenna Gain(Peak) | 2.39 dBi |
| Antenna Impedance | 50Ω |
| Rated output Power | 0.02 mW/MHz |
| Remark | The above information are declared by the applicant, EU-LAB is not responsible for the information accuracy provided by the applicant. |

All channels were listed on the following table:

| Channel Number | Freq. (MHz) | Channel Number | Freq. (MHz) | Channel Number | Freq. (MHz) | Channel Number | Freq. (MHz) |
|---|---|---|---|---|---|---|---|
| **00** | **2402** | 21 | 2423 | 42 | 2444 | 63 | 2465 |
| 01 | 2403 | 22 | 2424 | 43 | 2445 | 64 | 2466 |
| 02 | 2404 | 23 | 2425 | 44 | 2446 | 65 | 2467 |
| 03 | 2405 | 24 | 2426 | 45 | 2447 | 66 | 2468 |
| 04 | 2406 | 25 | 2427 | 46 | 2448 | 67 | 2469 |
| 05 | 2407 | 26 | 2428 | 47 | 2449 | 68 | 2470 |
| 06 | 2408 | 27 | 2429 | 48 | 2450 | 69 | 2471 |
| 07 | 2409 | 28 | 2430 | 49 | 2451 | 70 | 2472 |
| 08 | 2410 | 29 | 2431 | 50 | 2452 | 71 | 2473 |
| 09 | 2411 | 30 | 2432 | 51 | 2453 | 72 | 2474 |
| 10 | 2412 | 31 | 2433 | 52 | 2454 | 73 | 2475 |
| 11 | 2413 | 32 | 2434 | 53 | 2455 | 74 | 2476 |
| 12 | 2414 | 33 | 2435 | 54 | 2456 | 75 | 2477 |
| 13 | 2415 | 34 | 2436 | 55 | 2457 | 76 | 2478 |
| 14 | 2416 | 35 | 2437 | 56 | 2458 | 77 | 2479 |
| 15 | 2417 | 36 | 2438 | 57 | 2459 | **78** | **2480** |
| 16 | 2418 | 37 | 2439 | 58 | 2460 | - | - |
| 17 | 2419 | 38 | 2440 | 59 | 2461 | - | - |
| 18 | 2420 | **39** | **2441** | 60 | 2462 | - | - |
| 19 | 2421 | 40 | 2442 | 61 | 2463 | - | - |
| 20 | 2422 | 41 | 2443 | 62 | 2464 | - | - |

# 3 Test Summary

## 3.1 Test Standard

The tests were performed according to following standards:

| No. | Identity | Document Title |
|---|---|---|
| 1 | MIC Notice No.88 Appendix No.43<br>Ordinance of MPT No.37, 1981:<br>Article 2 paragraph 1 item (19) | Low power data communications system in the 2.4GHz band |

Remark:
Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission should be checked to ensure compliance has been maintained.

## 3.2 Test Verdict

| No. | Description | Test Mode | Data Rate (Mbps) | Verdict | Remark |
|---|---|---|---|---|---|
| 1 | Frequency Tolerance | GFSK, π/4-DQPSK, 8DPSK | 1/2/3 | Pass | -- |
| 2 | Occupied Bandwidth | GFSK, π/4-DQPSK, 8DPSK | 1/2/3 | Pass | -- |
| 3 | Spread-spectrum Bandwidth / Factor | GFSK, π/4-DQPSK, 8DPSK | 1/2/3 | Only for reported | -- |
| 4 | Antenna power | GFSK, π/4-DQPSK, 8DPSK | 1/2/3 | Pass | -- |
| 5 | Dwell Time | GFSK, π/4-DQPSK, 8DPSK | 1/2/3 | Pass | -- |
| 6 | Spurious Emission Intensity | GFSK, π/4-DQPSK, 8DPSK | 1/2/3 | Pass | -- |
| 7 | Secondary Radiated Emission | GFSK, π/4-DQPSK, 8DPSK | 1/2/3 | Pass | -- |
| 8 | Spurious Emissions | GFSK, π/4-DQPSK, 8DPSK | 1/2/3 | Pass | -- |
| 9 | Interference prevention function | GFSK, π/4-DQPSK, 8DPSK | 1/2/3 | Pass | -- |
| 10 | Transmission Radiated Angle Width (3dB Beam Bandwidth) | GFSK, π/4-DQPSK, 8DPSK | 1/2/3 | N/A | Note 2 |
| 11 | Construction Protection Confirmation | GFSK, π/4-DQPSK, 8DPSK | 1/2/3 | Compliance | -- |

Note 1: The tests were performed according to the method of measurements prescribed in MIC Notice No.88 Appendix No.43.
Note 2: It is unnecessary to testing, when a E.I.R.P. is less than the variable E.I.R.P. limit of minimum (DSSS: 12.14dBm/MHz) or less, FHSS (2427-2470.75 MHz): 6.91dBm/MHz or less, etc.)

## 3.3 Test Laboratory

| | |
|---|---|
| Test Laboratory | Shenzhen EU Testing Laboratory Limited |
| Address | 101, Building B1, Fuqiao Fourth Area, Qiaotou Community, Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China |

# 4 Test Configuration

## 4.1 Test Environment

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

| | | |
|---|---|---|
| Relative Humidity | 55 % | |
| Atmospheric Pressure | 101 kPa | |
| Temperature | NT (Normal Temperature) | 23℃ |
| Working Voltage of the EUT | NV (Normal Voltage) | 3.70VDC |
| | LV (Low Voltage) | 3.33VDC |
| | HV (High Voltage) | 4.07VDC |

**Power Supply Voltage Fluctuation Test**

| Voltage Fluctuation Test | Normal Voltage | High Voltage +10% of Normal Voltage | Low Voltage -10% of Normal Voltage |
|---|---|---|---|
| Input To EUT | 3.70VDC | 4.07VDC | 3.33VDC |
| Output To RF Module | 3.3VDC | 3.3VDC | 3.3VDC |
| Voltage Variation (%) | -- | 0.00% | 0.00% |

Note:
Voltage Variation (%)=(Output high or Low Voltage - Output Normal Voltage)/ Output Normal Voltage* 100%
For extreme voltage test, we have tested the relationship between the external power supply and RF IC power supply. Base on the test results, only the normal voltage was selected to perform all items.

## 4.2 Test Equipment

| Radiated Emission and RF Test | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No** | **Serial No** | **Cal Date** | **Cal Due Date** |
| EMI Test Receiver | ROHDE & SCHWARZ | ESPI | EE-006 | 2025/01/08 | 2026/01/07 |
| Bilog Broadband Antenna | SCHWARZBECK | VULB 9163 | EE-007 | 2023/01/14 | 2026/01/13 |
| Double Ridged Horn Antenna | A-INFOMW | LB-10180-NF | EE-008 | 2023/01/12 | 2026/01/11 |
| Pre-amplifier | Agilent | 8447D | EE-009 | 2025/01/08 | 2026/01/07 |
| Pre-amplifier | Agilent | 8449B | EE-010 | 2025/01/08 | 2026/01/07 |
| MXA Signal Analyzer | Agilent | N9020A | EE-011 | 2025/01/08 | 2026/01/07 |
| MXG RF Vector Signal Generator | Agilent | N5182A | EE-012 | 2025/01/08 | 2026/01/07 |
| Test Software | Farad | EZ-EMC | EE-015 | N.C.R | N.C.R |
| MIMO Power Measurement Module | TSTPASS | TSPS 2023R | EE-016 | 2025/01/08 | 2026/01/07 |
| RF Test Software | TSTPASS | TS32893 V2.0 | EE-017 | N.C.R | N.C.R |
| Wideband Radio Communication Tester | ROHDE & SCHWARZ | CMW500 | EE-402 | 2025/02/14 | 2026/02/13 |
| Loop Antenna | TESEQ | HLA6121 | EE-403 | 2025/02/14 | 2026/02/13 |
| MXG RF Analog Signal Generator | Agilent | N5181A | EE-406 | 2025/02/14 | 2026/02/13 |
| Constant Temperature Humidity Chamber | Guangxin | GXP-401 | ES-002 | 2024/07/30 | 2025/07/29 |
| Power Sensor | ROHDE&SCHWARZN | NRP18S | ES-052 | 2025/02/14 | 2026/02/13 |

Note[1]: Calibration Company: Shenzhen Academy Of Metrology& Quality inspection.
Note[2]: Calibration method: Calibration conducted in foreign countries, which is equivalent to calibration conducted by the NICT or a designated calibration agency under Article 102-18-1 and Article 24-2, Paragraph 4 of the Radio Act.

## 4.3 Description of Support Unit

| No. | Title | Manufacturer | Model No. | Serial No. |
|---|---|---|---|---|
| 1 | Adapter | MI | A232-050200U-CN2 | EMC-PJ-004 |

## 4.4 Measurement Uncertainty

| Parameters | Uncertainty |
|---|---|
| Frequency Error / 99% Bandwidth | (3.2 x f x $10^{-6}$) Hz |
| Antenna Power | 1.82 dB |
| TX-RX Spurious Emissions | 1.84 dB |
| Transmission Antenna Gain | 5.36 dB |
| Temperature | 0.82 ℃ |
| Humidity | 4.1% |
| DC / AC Power Source | 0.04% |
| Noet: “f” is the nominal signal frequency in Hz. | |

Note: This uncertainty represents as expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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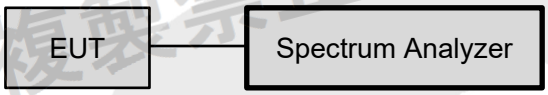
# 5 Test Items

## 5.1 Frequency Tolerance Test

### 5.1.1 Test Requirement

| Item | Limits |
|---|---|
| Frequency Tolerance | ≤±50 ppm |

### 5.1.2 Test Setup Diagram




### 5.1.3 Test Procedure

1. Test Frequency= test channel
   RBW=VBW=10KHz
   Span=1MHz
   Sweep time=Auto
   Detector mode=Positive peak
   Indication mode=Max hold
2. EUT have transmitted unmodulated signal and fixed channelize. f is using the mark cursor to mark the peak frequency value, fc is declaring of channel frequency.

### 5.1.4 Test Deviation

There is no deviation with the original standard.

### 5.1.5 EUT Operation during Test

The EUT was programmed to be in continuous transmit, carrier mode.

### 5.1.6 Test Data

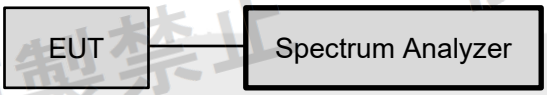
PASS.
Please refer to Annex D for details.

## 5.2 Occupied Bandwidth and Spread-spectrum Bandwidth / Factor

### 5.2.1 Test Requirement

| Item | Limits |
|---|---|
| Occupied Band Width | FHSS≦83.5MHz; OFDM≦40MHz, DSSS≦26MHz; Others≦26MHz |

### 5.2.2 Test Setup Diagram




### 5.2.3 Test Procedure

1. Set the spectrum analyzer as follows:
   Center frequency: Test frequency
   Span: Approximately 2 to 3.5 times nominal bandwidth
   Resolution bandwidth: Approximately 3% or less nominal bandwidth
   Video bandwidth: equivalent to resoluble bandwidth
   Sweep time: auto
   Sweep mode: Continuous sweep
   Detection: Positive peak
   Trace mode: Maximum hold
2. After repeating sweeps until the display shows steady data, store the values at all data points into the computer array variables.
3. Convert the dB values at all data points to antilogarithm on the power dimension.
4. Obtain sum total of the power at all data points, and store it as “total power”.
5. Accumulate the power at each data point sequentially upward from the lowest frequency and obtain the limit data point where the accumulated power becomes 0.5% (5% for spreading bandwidth) of the “total power”. Then convert the limit data point into frequency and store it as “lower limit frequency”
6. Accumulate the power at each data point sequentially downward form the highest frequency and obtain the limit data point where the accumulated power becomes 0.5% (5% for spreading bandwidth) of the “total power”. Then convert the limit data point into frequency and store it as “upper limit frequency”.
7. Spread Spectrum Factor = Spread Spectrum Bandwidth / modulation rate of EUT.

### 5.2.4 Test Deviation

There is no deviation with the original standard.

### 5.2.5 EUT Operation during Test

The EUT was programmed to be in continuous transmit, channel-hopping mode.

### 5.2.6 Test Data

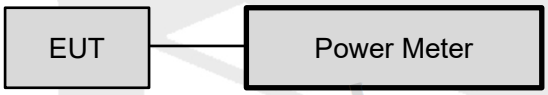
PASS.
Please refer to Annex D for details.

## 5.3 Antenna Power Test

### 5.3.1 Test Requirement

| Item | Limits |
|---|---|
| Antenna Power Density | a) FH, FH+DS, or FH+OFDM form 2427 - 2470.75 MHz: ≦3 mW/MHz<br>b) DS but other than a) from 2400~2483.5 MHz: ≦10 mW/MHz<br>c) OFDM, but other than a): For OCB of 26MHz or less: ≦10 mW/MHz<br>For OCB of over 26 MHz to 40 MHz: ≦5 mw/MHz<br>d) Other than a), b) and c): ≦10 mW |
| Antenna Power Error | +20% (Base on manufacturer declare antenna power density) |
| EIRP Power | 6.91 dBm/MHz |

### 5.3.2 Test Setup Diagram




### 5.3.3 Test Procedure

1. Measure the total power by the Power Meter in a state of hopping mode.
2. Calculate the mean power per 1MHz by dividing the reading level by spread bandwidth.

Output power Density (mW/MHz) = Total power (mW) / spread bandwidth (MHz)

### 5.3.4 Test Deviation

There is no deviation with the original standard.

### 5.3.5 EUT Operation during Test

The EUT was programmed to be in continuous transmit, channel-hopping mode.

### 5.3.6 Test Data

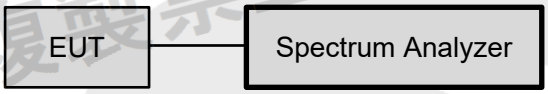
PASS.
Please refer to Annex D for details.

## 5.4 Dwell Time

### 5.4.1 Test Requirement

| Item | Limits |
|---|---|
| Dwell Time | For the radio equipment that uses the frequency hopping method excluding a combination of the spread spectrum method and OFDM, the total sum of the frequency retention time in any frequency within the time obtained by multiplying the diffusion rate by 0.4 second shall be 0.4 second or shorter |

### 5.4.2 Test Setup Diagram




### 5.4.3 Test Procedure

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

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 tozero span.
f Measure the maximum time duration of one single pulse
g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
h. Measure the maximum time duration of one single pulse
i. Dwell time = [spreading rate/791 x duty-cycle x 0.4 seconds. (to be determined for each mode DH1. DH3, DH5)

### 5.4.4 Test Deviation

There is no deviation with the original standard.

### 5.4.5 EUT Operation during Test

The EUT was programmed to be in continuous transmit, channel-hopping mode.

### 5.4.6 Test Data

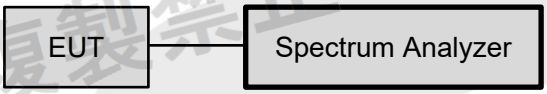
PASS.
Please refer to Annex D for details.

## 5.5 Spurious Emissions Intensity Test

### 5.5.1 Test Requirement

| Item | Limits |
|---|---|
| TX Spurious Emission | ≦2.5μW (2387MHz>f ; 2496.5MHz<f ) |
| | ≦25μW (2387MHz≦f<2400MHz) and (2483.5MHz<f≦2496.5MHz) |

### 5.5.2 Test Setup Diagram




### 5.5.3 Test Procedure

| Spectrum Parameter | Setting |
|---|---|
| Attenuation | Auto |
| RB | 30-1000 MHz: 100KHz/100KHz |
| VB | Above 1GHz: 1 MHz/1 MHz |
| Detector | Peak |
| Trace | Max Hold |
| Sweep | Auto |

1. The EUT is placed in transmit mode at maximum power/modulation at a fixed channel.
2. Setting of SA is following as: RBW/VBW = 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 30 MHz and stop frequency 2387 MHz Then to mark peak reading value + cable loss shall be less than 2.5 μW
4. SA adjusted to start frequency 2387 MHz and stop frequency 2400 MHz. Then to mark peak reading value + cable loss shall be less than 25 μW.
5. SA adjusted to start frequency 2483.5 MHz and stop frequency 2496.5 MHz Then to mark peak reading value + cable loss shall be less than 25 μW
6. SA adjusted to start frequency 2496.5 MHz and stop frequency 12500 MHz Then to mark peak reading value + cable loss shall be less than 2.5 μW
7. Measure side band spurious as follows: For 2.4 GHz band: 2374 MHz~2400 MHz and 2483.5 MHz~2509.5 MHz RBW = VBW = 30 kHz, Result_Value = Meaured_Value + 15.2 [dBm]
8. 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.

### 5.5.4 Test Deviation

There is no deviation with the original standard.

### 5.5.5 EUT Operation during Test

The EUT was programmed to be in continuous transmit, channel-hopping mode.

### 5.5.6 Test Data

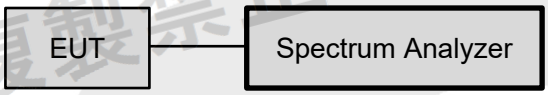
PASS.
Please refer to Annex D for details.

## 5.6 Secondary Radiated Emissions Test

### 5.6.1 Test Requirement

| Item | Limits |
|---|---|
| RX Spurious Emission | ≦4nW (f<1GHz) |
| | ≦20nW (1GHz≦f) |

### 5.6.2 Test Setup Diagram




### 5.6.3 Test Procedure

| | |
|---|---|
| [Setting 1] | |
| Frequency range: | 30 MHz ~ 12.5 GHz |
| RBW: | Below 1 GHz:100 kHz |
| | Above 1 GHz:1 MHz |
| VBW: | Below 1 GHz:100 kHz |
| | Above 1 GHz:1 MHz |
| Sweep time: | Auto |
| Sweep data points: | 1001 or greater |
| Detector mode: | Positive peak |
| Indication mode: | Max hold |
| | |
| [Setting 2] | |
| Center Frequency: | Frequency of spurious emission found using [Setting 1] |
| Span: | 0 Hz |
| RBW: | Below 1 GHz:100 kHz |
| | Above 1 GHz:1 MHz |
| VBW: | Below 1 GHz:100 kHz |
| | Above 1 GHz:1 MHz |
| Sweep time: | Auto |
| Sweep data points: | 1001 or greater |
| Detector mode: | Sample |

(1) Configure the spectrum analyzer to [Setting 1] and then search for spurious emissions in the range 30 MHz to 12.5GHz. If the sweep range does not cover the required measurement frequency range then the measurement range will need to be divided into sufficient sections of size [RBW x Sweep Data Points].
(2) If spurious emissions are found with an amplitude greater than [Limit - 10dB] then perform further detailed measurements as described in (3)
(3) Configure the spectrum analyzer using [Setting 2] and measure the average signal amplitude.
If the spurious emission is burst type (intermittent), then the average value shall not include signal OFF time
Multiple Antenna Systems
If the EUT has multiple antennas then emissions from each antenna shall be measured individually, as described below
(4) For each antenna repeat steps (1) through (3). Convert all spurious level measurements from dB to absolute value
(5) Combine (sum) the absolute values of the spurious measurements at each frequency for each antenna (to create a single composite spectrum of spurious emissions)
(6) Ensure that the composite spectrum does not exceed the Limit

### 5.6.4 Test Deviation

There is no deviation with the original standard.

### 5.6.5 EUT Operation during Test

The EUT was programmed to be in continuous transmit, channel-hopping mode.

### 5.6.6 Test Data

PASS.

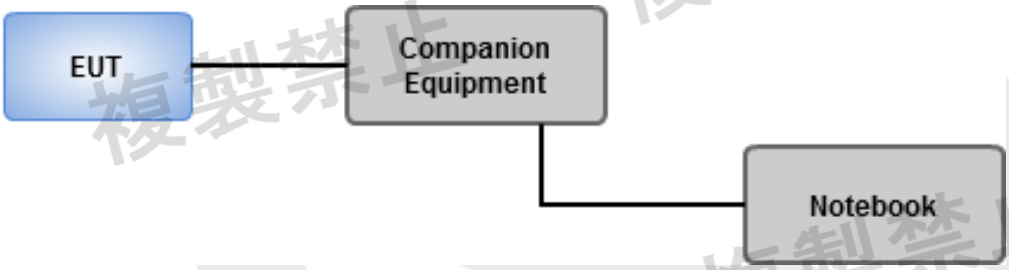
Please refer to Annex D for details.

## 5.7 Interference Prevention Function

### 5.7.1 Test Requirement

| Item | Limits |
|---|---|
| Identification | ≥ 48 bits |

### 5.7.2 Test Setup Diagram




### 5.7.3 Test Procedure

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

### 5.7.4 Test Deviation

There is no deviation with the original standard.

### 5.7.5 EUT Operation during Test

The EUT was programmed to be in continuous transmit, channel-hopping mode.

### 5.7.6 Test Data

PASS.

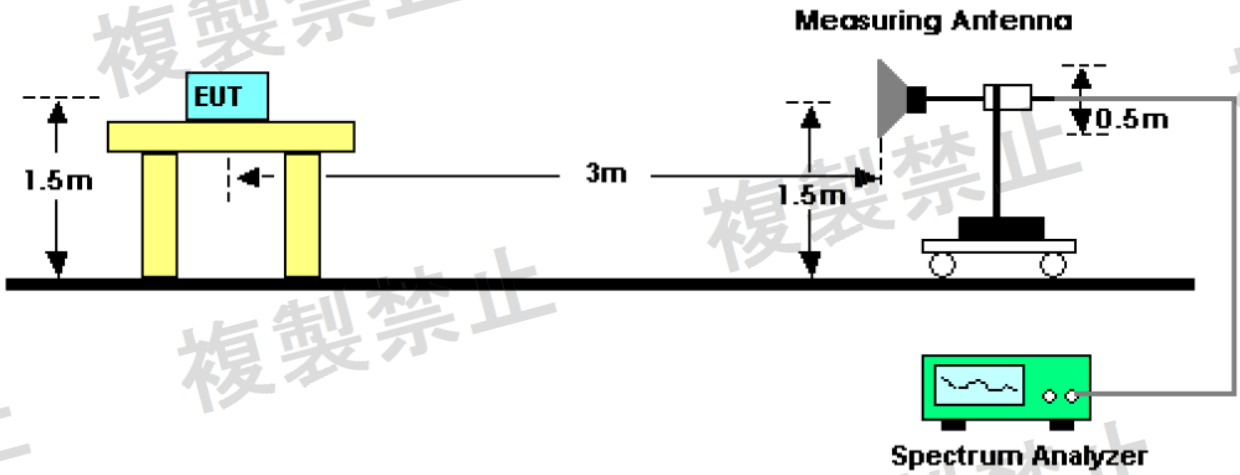
| Mode | ID Code | Test Results |
|---|---|---|
| BT | 24:B3:36:58:F5:44 | Pass |

## 5.8 Transmission Radiation Angle Width (3dB Beamwidth) Measurement

### 5.8.1 Test Requirement

| Item | Limits |
|---|---|
| 3dB antenna beam width | 360/A (If A<1; then A=1) A = {EIRP Power [mW] / 16.36 for DS, OFDM} or A = {EIRP Power [mW] / 4.9 for FH} |
| Note: This test item will not be applied to the transmission antenna which has a gain of 2.14dBi or less. | |

### 5.8.2 Test Setup Diagram




### 5.8.3 Test Procedure

1. Set EUT and measuring antenna at the same height and roughly facing each other.
2. Set spectrum analyzer with RBW=1 MHz, VBW=1 KHz, Y scale=5 dB, Detector=Peak, Trace mode=Max Hold, 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 ± 50cm 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 = {EIRP Power [mW] / 16.36 for DS, OFDM} or A = {EIRP Power [mW] / 4.9 for FH}

### 5.8.4 Test Deviation

There is no deviation with the original standard.

### 5.8.5 EUT Operation during Test

The EUT was programmed to be in continuous transmit, channel-hopping mode.

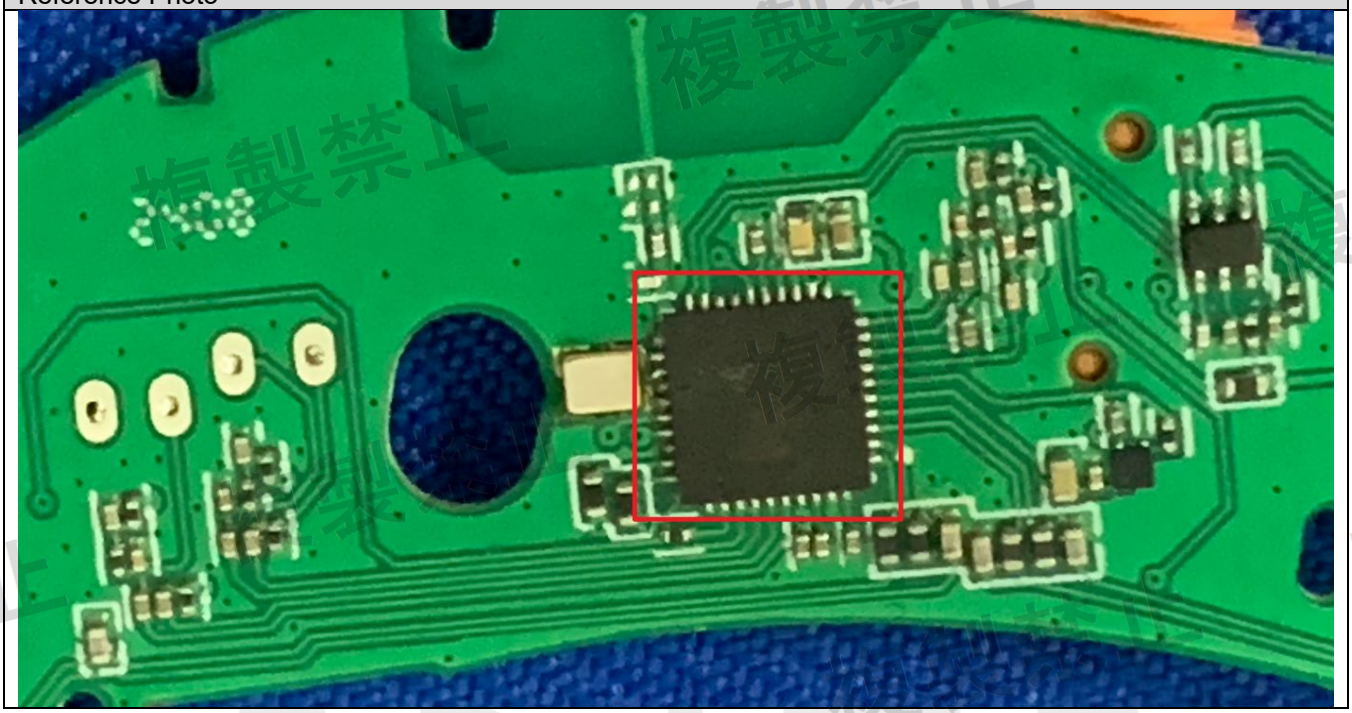
### 5.8.6 Test Data

Note: Because the EIRP is less than 6.91dBm/MHz, this item is not applicable.

## 5.9 Construction Protection Confirmation Method

The RF and modulation portions are protected against illegal modification as following method:

| Protected Method | Description |
|---|---|
| Structure protection | The terminal number is 40, terminal pitch is 1mm. it can't be easily opened and modified. |
| Reference Photo | |



## ANNEX A TEST SETUP PHOTOS

Please refer to the document “8328EU012507W-AA.PDF”

## ANNEX B EXTERNAL PHOTOS

Please refer to the document “8328EU012507W-AB.PDF”

## ANNEX C INTERNAL PHOTOS

Please refer to the document “8328EU012507W-AC.PDF”

## ANNEX D TEST DATA

Please refer to the document “8328EU012507W-AD.PDF”

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**--- End of Report ---**