# TEST REPORT

## For

## GravaStar Mercury K98 Full-size (98%) Wireless Mechanical Gaming Keyboard

## Model Number: GS K98

| | | |
|---|---|---|
| Prepared for | : | ZhuoYe ChuangYi Co., Ltd. |
| Address | : | B01, 11F, Block B, Building 2, Shenzhen Bay Technology Ecological Park, No. 1809 Shahe West Road, Nanshan District, Shenzhen, Guangdong, China |

| | | |
|---|---|---|
| Prepared by | : | Shenzhen NTT Testing Technology Co.,Ltd. |
| Address | : | 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 |

| | | |
|---|---|---|
| Report No. | : | SZNTT26027325E1-1 |
| Date of Test | : | Jul. 06, 2026 to Jul. 31, 2026 |
| Date of Report | : | Aug. 03, 2026 |

# Shenzhen NTT Testing Technology Co.,Ltd.

| | |
|---|---|
| **Applicant:**<br>**Address:** | ZhuoYe ChuangYi Co., Ltd.<br>B01, 11F, Block B, Building 2, Shenzhen Bay Technology Ecological Park, No. 1809 Shahe West Road, Nanshan District, Shenzhen, Guangdong, China |
| **Manufacturer:**<br>**Address:** | ZhuoYe ChuangYi Co., Ltd.<br>B01, 11F, Block B, Building 2, Shenzhen Bay Technology Ecological Park, No. 1809 Shahe West Road, Nanshan District, Shenzhen, Guangdong, China |
| **E.U.T:** | GravaStar Mercury K98 Full-size (98%) Wireless Mechanical Gaming Keyboard |
| **Model Number:** | GS K98 |
| **Trade Name:** | GravaStar **Serial No.:** ----- |
| **Date of Receipt:** | Jul. 06, 2026 **Date of Test:** Jul. 07, 2026 to Jul. 31, 2026 |
| **Test Specification :** | Article2 Paragraph 1, item 19<br>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.<br><br>**Issue Date: Aug. 03, 2026** |

Tested by: Cindy Qin — Cindy Qin / Engineer

Reviewed by: Ken Wu — Ken Wu / Supervisor

Approved by: Abel Yu — 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 | PASS | |
| 7 | Spurious Emissions Intensity | PASS | |
| **Transmitting equipment** | | | |
| 14 | Antenna Power | PASS | |
| **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 | |
| 4.10 | Construction Protection Confirmation | PASS | |
| 49.20 | Carrier Sensing Function(1) | N/A(See Note3) | |
| 49.20 | Carrier Sensing Function(2) | N/A(See Note4) | |
| 49.20 | Half Power Beam Angle (Radiation angle of antenna) | N/A(See Note5) | |
| 49.20 | 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
(3) Application to transmiting devices which E.I.R.P. is less than [2.14dBi+antenna power limit] and the shortage of E.I.R.P. is compensated by the antenna power.
(4) Application to transmitting devices with OFDM modulation and the occupied bandwidth greater than 26MHz.
(5) It is unnecessary to testing, when a E.I.R.P. is less than 12.14dBm.

## 1.2. TEST FACILITY

Site Description

EMC Lab. : Accredited by CNAS, 2026.03.30
The certificate is valid until 2032.03.29
The Laboratory has been assessed and proved to be in compliance with CNAS-CL01 (identical to ISO/IEC 17025:2017)
The Certificate Registration Number is L25606
Designation Number: CN3446
Test Firm Registration Number: 129414
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

| 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 | GravaStar Mercury K98 Full-size (98%) Wireless Mechanical Gaming Keyboard |
| Model Name | GS K98 |
| Series Model: | N/A |
| Model Different.: | N/A |
| Product Description | The EUT is a GravaStar Mercury K98 Full-size (98%) Wireless Mechanical Gaming Keyboard.<br>Operation Frequency: 2402~2480MHz<br>Bit Rate of Transmitter: GFSK<br>Number Of Channel: 40 CH<br>Data Rate: 1Mbps<br>Antenna Type: PCB Antenna<br>Antenna Gain(Peak): 1.2dBi |
| Channel List | Please refer to the Note 2. |
| Power Source | DC 3.7V from battery or DC 5V |
| Hardware Version | N/A |
| Software Version | N/A |

Note:

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

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---|---|---|---|---|---|---|---|
| **01** | **2402** | 11 | 2422 | 21 | 2442 | 31 | 2462 |
| 02 | 2404 | 12 | 2424 | 22 | 2444 | 32 | 2464 |
| 03 | 2406 | 13 | 2426 | 23 | 2446 | 33 | 2466 |
| 04 | 2408 | 14 | 2428 | 24 | 2448 | 34 | 2468 |
| 05 | 2410 | 15 | 2430 | 25 | 2450 | 35 | 2470 |
| 06 | 2412 | 16 | 2432 | 26 | 2452 | 36 | 2472 |
| 07 | 2414 | 17 | 2434 | 27 | 2454 | 37 | 2474 |
| 08 | 2416 | 18 | 2436 | 28 | 2456 | 38 | 2476 |
| 09 | 2418 | 19 | 2438 | 29 | 2458 | 39 | 2478 |
| 10 | 2420 | **20** | **2440** | 30 | 2460 | **40** | **2480** |

3. Table for Filed Antenna

| ANT | Brand | Model Name | Antenna Type | Gain (dBi) | NOTE |
|---|---|---|---|---|---|
| 1 | N/A | N/A | PCB Antenna | 1.2dBi | N/A |

4. Testing environment

Temperature range: 25℃, Humdity range: 55%. Atmospheric Pressure(mbar):1015

## 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.

| Pretest Mode | Description |
|---|---|
| Mode1 | CH01 |
| Mode2 | CH20 |
| Mode3 | CH40 |
| Mode4 | RX |

| For Conducted Emission | |
|---|---|
| Final Test Mode | Description |
| Mode1 | CH01 |
| Mode2 | CH20 |
| Mode3 | CH40 |
| Mode4 | 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 | | DC3.7V | DC4.07V | DC3.33V |
| Module Voltage | | DC 3.33V | DC 3.32V | DC 3.31V |
| Voltage error | Result | Ref.level | 0.003003 | 0.006006 |

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.

## 2.4. 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 BLE

| Test software Version | keyboardTester | | |
|---|---|---|---|
| Frequency | 2402MHz | 2440 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 | GravaStar Mercury K98 Full-size (98%) Wireless Mechanical Gaming Keyboard | GravaStar | GS K98 | / | 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

| 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 |

Test Equipment

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.

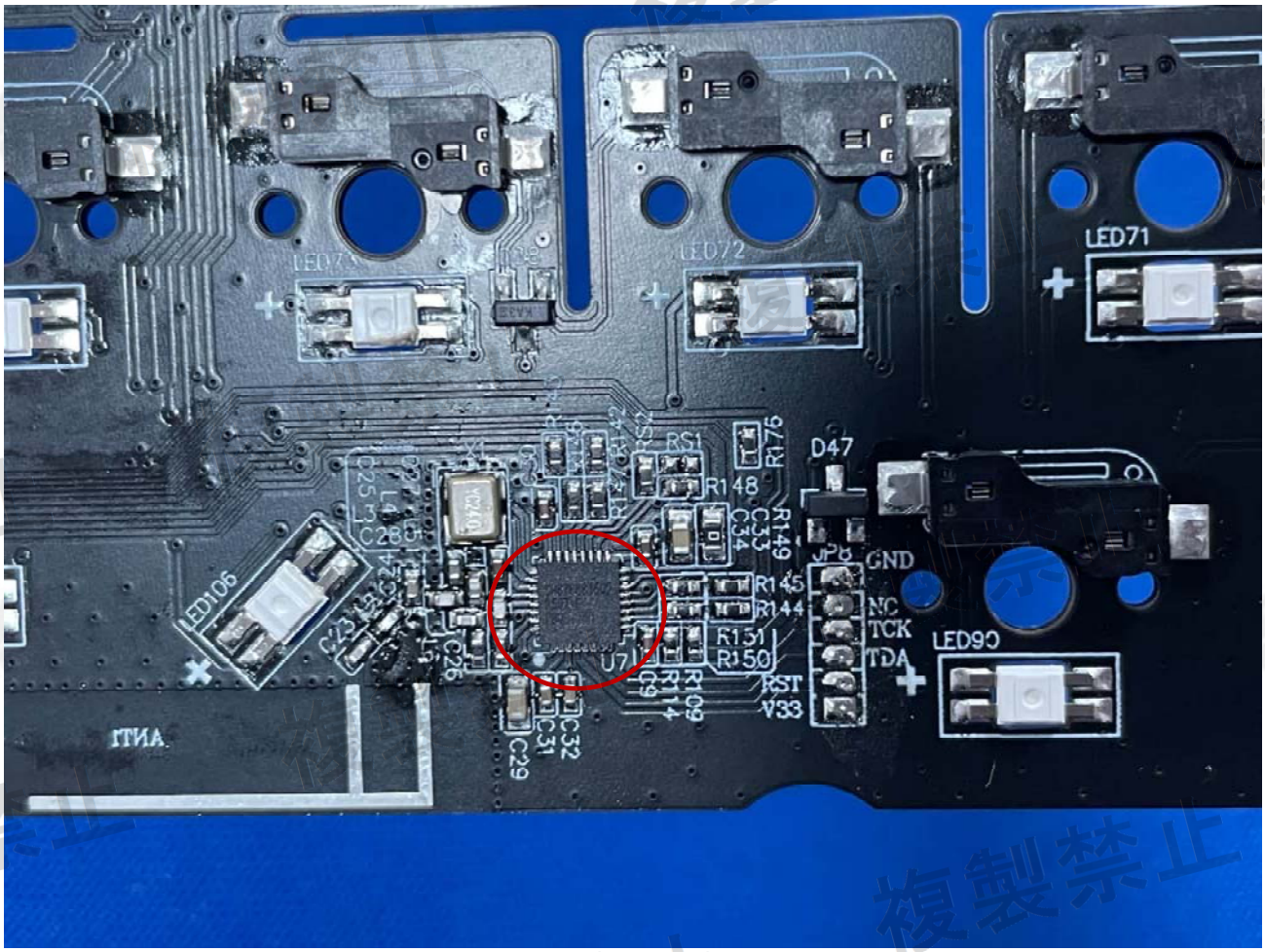
c)：Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).

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 the PCB. making it very difficult for anyone to remove it. Number of RF chip pins:32, spacing distance: 0.5 mm; Number of (please see picture ).

picture



# 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.

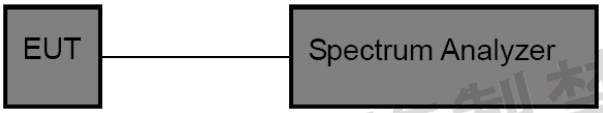
(2)In the case of burst waves, the measurement shall be done for enough time in order to obtain the enough measuring accuracy, and the average of the measured values becomes the final value.

(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

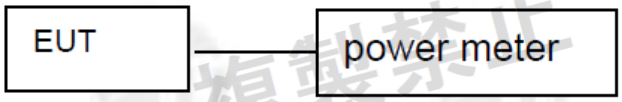
## 5. 1. LIMIT

| Item | Limits |
|---|---|
| Antenna Power Density | ≦3mW/MHz (FH form 2402 - 2480 MHz)<br>≦10mW/MHz (OFDM,DS from2400~2483.5MHz)<br>≦10mW (Other from 2400~2483.5MHz) |
| Antenna Power Error | ≤ 20% |

## 5. 2. TEST PROCEDURES

1. The EUT was directly connected to the power meter.
2. The EUT was tested in fixed-frequency 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%)

## 6. 1. LIMIT

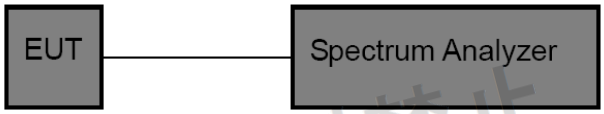
| Item | Limits |
|---|---|
| Occupied Band Width: | FH 83.5MHz; OFDM,DS ≦26MHz;Others≦ 26MHz |
| Spreading Bandwidth: | Only test( No Limits) |

## 6. 2. MEASURING INSTRUMENTS AND SETTING

## 6. 3. TEST PROCEDURES

1. Setting of SA is following as: RB: 300KHz / VB:300KHz / SPAN: 3MHz / 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).
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 (30MHz≦f≦1000MHz) |
| | ≦2.5 μW/MHz (1000MHz<f≦2387MHz) |
| | ≦25 μW/MHz (2387MHz<f≦2400MHz) |
| | ≦25 μW/MHz (2483.5MHz≦f<2496.5MHz) |
| | ≦2.5 μW/MHz (2496.5MHz≦f<12500MHz) |

## 7. 2. MEASURING INSTRUMENTS AND SETTING

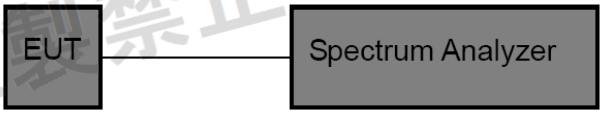
Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

| 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: 30dB 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 2.5μW.
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.
5. SA adjusted to start frequency 2387MHz and stop frequency 2400MHz. Then to mark peak reading value + cable loss shall be less than 25μW.
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
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
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.

## 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. IMITATION OF COLLATERAL EMISSION OF RECEIVER MEASUREMENT

## 8.1. LIMIT

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

## 8.2. MEASURING INSTRUMENTS AND SETTING

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

| Spectrum Parameter | Setting |
|---|---|
| Attenuation | Auto |
| RB | 100kHz(f<1GHz);1 MHz (1GHz≦f) |
| VB | 100KHz(f<1GHz);1 MHz (1GHz≦f) |
| Detector | Peak |
| Trace | Max Hold |
| Sweep Time | Auto |

## 8.3. TEST PROCEDURES

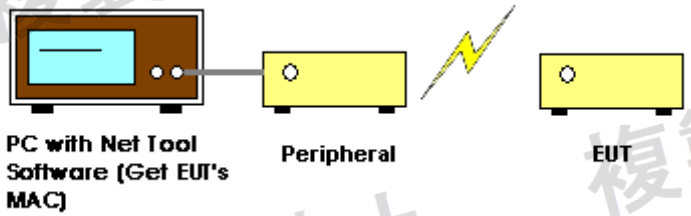
1. EUT have the continuous reception mode and fixed only one channelize.
2. Setting of SA is following as:
   AT: 10dB / Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
3. SA set RB: 100kHz and VB: 100kHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW
4. SA set RB: 1MHz and VB: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 13000MHz. 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.

## 8.4. TEST RESULT

Please see the attachment for data.

# 9 INTERFERENCE PREVENTION FUNCTION

## 9.1. TEST SETUP




## 9.2. RADIO INTERFERENCE PREVENTION FUNCTION

| | Normal voltage | High voltage | Low voltage |
|---|---|---|---|
| Result | OK | OK | OK |

Result: Pass
MAC:50:37:B2:73:1E:5F

# 10 CARRIER SENSE

## 10.1 STANDARD APPLICABLE

| Item | Limits |
|---|---|
| Carrier Sense | Good – EUT stop RF transmission signal after carrier inject to EUT. (On 22.79+Gr-20*log (f)[dBm] (Gr: dBi; f: MHz) or 100mV/m) |

## 10.2 INSTRUMENTS SETTING

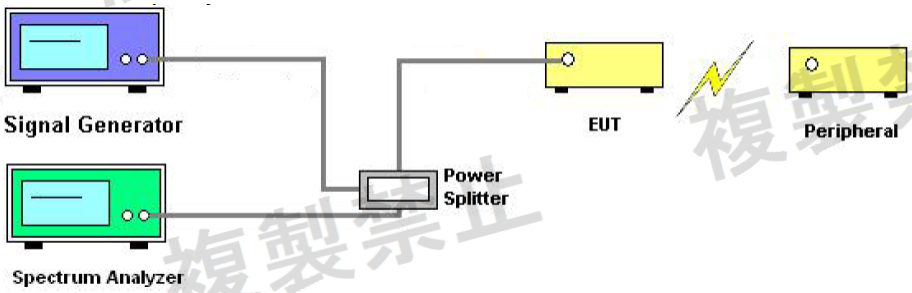
The following table is the setting of spectrum analyzer and receiver

| Spectrum Parameter | Setting |
|---|---|
| Attenuation | Auto |
| RB/VB | 1mhZ |
| Span | 0mhZ |
| Sweep | Continuous |
| Detector | Peak |
| Trigger mode | Video |

## 10.3 TEST PROCEDURES

1. SSG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SSG and power level is (On 22.79+Gr-20*log(f)[dBm] (Gr: dBi; f: MHz). Then turn off the RF signal of SSG.
2. EUT have transmitted the maximum modulation signal and fixed channelize.
3. Setting of SA is following as: RB: 1MHz / VB: 1MHz / SPAN: 50MHz / AT: 10dB /Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak.
4. SSG RF Signal On.
5. EUT shall be stop the transmitted any signal and SSG RF Signal Off. Then EUT will be continuous transmitted signal.

## 10.4 TEST SETUP LAYOUT




## 10.5 EUT OPERATION DURING TEST

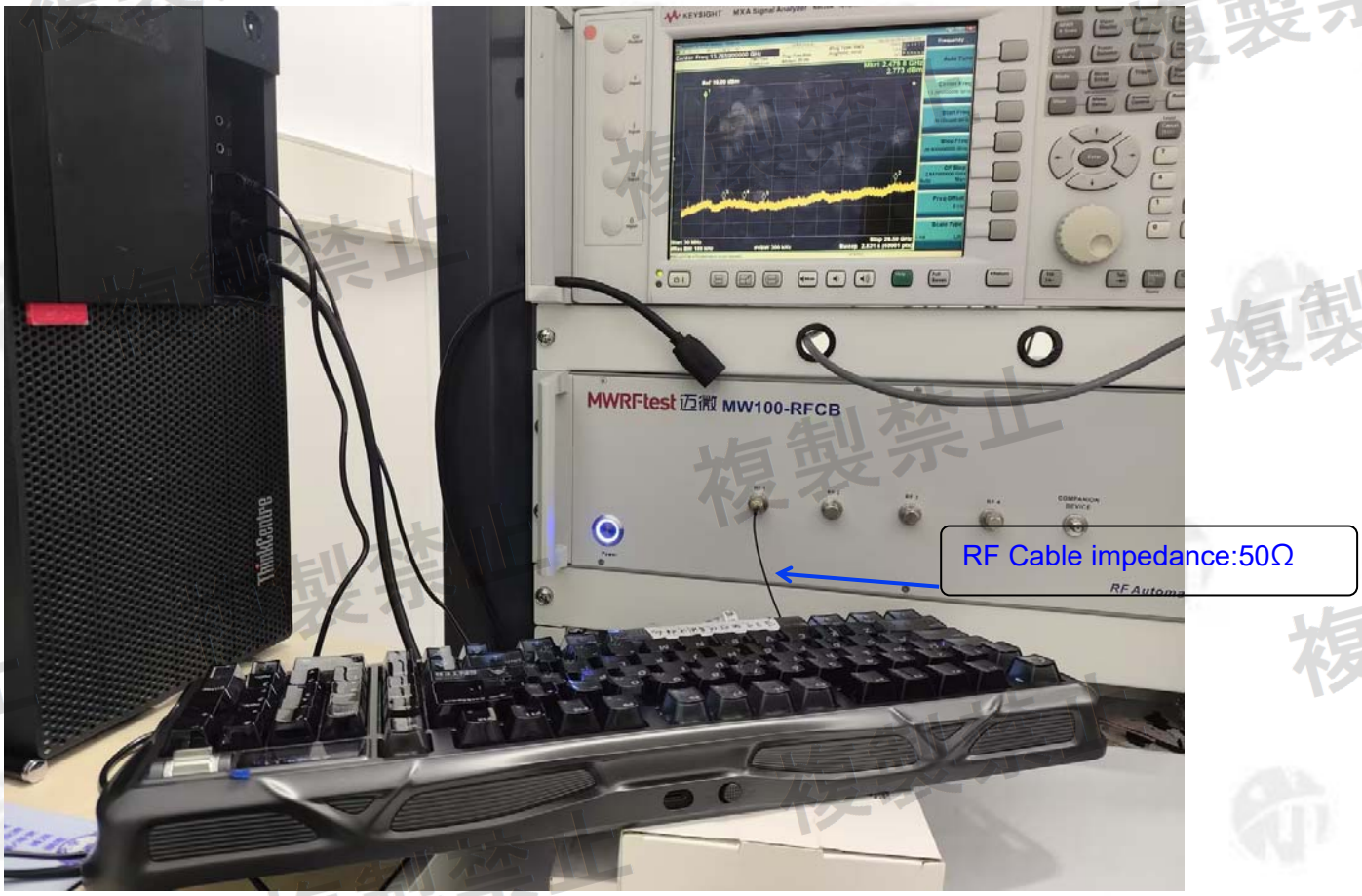
The EUT was programmed to be in normal transmitting mode.

## 10.6 TEST RESULT

N/A

## 11. EUT TEST PHOTO

**Measurement Photos**



## 12.EUT CONSTRUCTIONAL DETAILS

**Please see the EUT photo for details.**

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

複製禁止