



# FCC RF Test Report

## (U-NII)

**Applicant:** Hangzhou Roombanker Technology Co., Ltd.

**Address of Applicant:** A#801 Wantong center, Hangzhou, China

### Equipment Under Test (EUT)

**Product Name:** Smart Gateway

**Model No.:** DSGW-023

**FCC ID:** 2AUXBDSGW-023

**Applicable Standards:** FCC CFR Title 47 Part 15E (§15.407)

**Date of Sample Receipt:** 25 Nov., 2022

**Date of Test:** 26 Nov., to 28 Dec., 2022

**Date of Report Issued:** 29 Dec., 2022

**Test Result:** PASS

**Tested by:**

*Mike Ou*  
Test Engineer

**Date:**

29 Dec., 2022

**Reviewed by:**

*Wenwen Zhang*  
Project Engineer  
检验检测专用章

**Date:**

29 Dec., 2022

**Approved by:**

*Wenwen Zhang*  
Manager

**Date:**

29 Dec., 2022

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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## 1 Version

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 00          | 29 Dec., 2022 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |
|             |               |             |

## 2 Contents

Page

|                                                                   |           |
|-------------------------------------------------------------------|-----------|
| <b>Cover Page .....</b>                                           | <b>1</b>  |
| <b>1 Version .....</b>                                            | <b>2</b>  |
| <b>2 Contents.....</b>                                            | <b>3</b>  |
| <b>3 General Information.....</b>                                 | <b>4</b>  |
| 3.1 Client Information .....                                      | 4         |
| 3.2 General Description of E.U.T. ....                            | 4         |
| 3.3 Test Mode and Environment .....                               | 5         |
| 3.4 Description of Test Auxiliary Equipment .....                 | 5         |
| 3.5 Measurement Uncertainty .....                                 | 5         |
| 3.6 Additions to, Deviations, or Exclusions from the Method ..... | 5         |
| 3.7 Laboratory Facility .....                                     | 6         |
| 3.8 Laboratory Location.....                                      | 6         |
| 3.9 Test Instruments List .....                                   | 6         |
| <b>4 Measurement Setup and Procedure .....</b>                    | <b>8</b>  |
| 4.1 Test Channel .....                                            | 8         |
| 4.2 Test Setup .....                                              | 9         |
| 4.3 Test Procedure .....                                          | 11        |
| <b>5 Test Results.....</b>                                        | <b>12</b> |
| 5.1 Summary .....                                                 | 12        |
| 5.1.1 Clause and Data Summary.....                                | 12        |
| 5.1.2 Test Limit.....                                             | 13        |
| 5.2 Antenna requirement.....                                      | 15        |
| 5.3 AC Power Line Conducted Emission .....                        | 16        |
| 5.4 Unwanted Emissions.....                                       | 18        |

### 3 General Information

#### 3.1 Client Information

|               |                                          |
|---------------|------------------------------------------|
| Applicant:    | Hangzhou Roombanker Technology Co., Ltd. |
| Address:      | A#801 Wantong center, Hangzhou, China    |
| Manufacturer: | Hangzhou Roombanker Technology Co., Ltd. |
| Address:      | A#801 Wantong center, Hangzhou, China    |

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

|                                                  |                                                                                                                            |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Product Name:                                    | Smart Gateway                                                                                                              |
| Model No.:                                       | DSGW-023                                                                                                                   |
| Operation Frequency:                             | Band 1: 5150 MHz - 5250 MHz<br>Band 4: 5725 MHz - 5850 MHz                                                                 |
| Channel Numbers:                                 | Band 1: 4, Band 4: 5 (802.11a, n-HT20, ac-VHT20)<br>Band 1, 4: 2 (802.11n-HT40, ac-VHT40)<br>Band 1, 4: 1 (802.11ac-VHT80) |
| Modulation Technology:<br>(IEEE 802.11a/802.11n) | OFDM-BPSK, QPSK, 16QAM, 64QAM                                                                                              |
| Modulation Technology:<br>(IEEE 802.11ac)        | OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM                                                                                      |
| Antenna Type:                                    | Internal Antenna                                                                                                           |
| Antenna Gain:                                    | Band 1: ANT1/2: 6 dBi (declare by applicant)<br>Band 4: ANT1/2: 6 dBi (declare by applicant)                               |
| Antenna Transmit Mode:                           | MIMO (2TX, 2RX)                                                                                                            |
| Power Supply:                                    | DC 12V, 2.0A                                                                                                               |
| Test Sample Condition:                           | The test samples were provided in good working order with no visible defects.                                              |

### 3.3 Test Mode and Environment

| Test Mode:                                                                                                                                                                                                                                          |                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Transmitting mode:                                                                                                                                                                                                                                  | Keep the EUT in continuous transmitting with modulation |
| Per-scan all kind of data rate, the follow list were the worst case:                                                                                                                                                                                |                                                         |
| Mode                                                                                                                                                                                                                                                | Data rate                                               |
| 802.11a                                                                                                                                                                                                                                             | 6.0 Mbps                                                |
| 802.11n-HT20                                                                                                                                                                                                                                        | 6.5 Mbps                                                |
| 802.11n-HT40                                                                                                                                                                                                                                        | 13.5 Mbps                                               |
| 802.11ac-VHT20                                                                                                                                                                                                                                      | 6.5 Mbps                                                |
| 802.11ac-VHT40                                                                                                                                                                                                                                      | 13.5 Mbps                                               |
| 802.11ac-VHT80                                                                                                                                                                                                                                      | 29.3 Mbps                                               |
| <b>Remark:</b> For AC power line conducted emission and radiated spurious emission (below 1GHz), pre-scan 802.11a, n, ac, modulation mode, found 802.11a modulation mode was worse case mode. The report only reflects the test data of worst mode. |                                                         |
| Operating Environment:                                                                                                                                                                                                                              |                                                         |
| Temperature:                                                                                                                                                                                                                                        | 15°C ~ 35°C                                             |
| Humidity:                                                                                                                                                                                                                                           | 20 % ~ 75 % RH                                          |
| Atmospheric Pressure:                                                                                                                                                                                                                               | 1008 mbar                                               |
| Voltage:                                                                                                                                                                                                                                            | Nominal: 12.0 Vdc, Extreme: Low 11.5 Vdc, High 12.5 Vdc |

### 3.4 Description of Test Auxiliary Equipment

|                                                 |
|-------------------------------------------------|
| The EUT has been tested as an independent unit. |
|-------------------------------------------------|

### 3.5 Measurement Uncertainty

| Parameter                                                                                                                                                                                                                                                                                                            | Expanded Uncertainty<br>(Confidence of 95%(U = 2Uc(y))) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Conducted Emission for LISN (9kHz ~ 150kHz)                                                                                                                                                                                                                                                                          | 1.9 dB                                                  |
| Conducted Emission for LISN (150kHz ~ 30MHz)                                                                                                                                                                                                                                                                         | 2.6 dB                                                  |
| Radiated Emission (30MHz ~ 1GHz) (3m SAC)                                                                                                                                                                                                                                                                            | 3.8 dB                                                  |
| Radiated Emission (1GHz ~ 18GHz) (3m SAC)                                                                                                                                                                                                                                                                            | 3.6 dB                                                  |
| Radiated Emission (18GHz ~ 40GHz) (3m SAC)                                                                                                                                                                                                                                                                           | 5.34 dB                                                 |
| <b>Note:</b> All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance. |                                                         |

### 3.6 Additions to, Deviations, or Exclusions from the Method

|    |
|----|
| No |
|----|

### 3.7 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

● **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

### 3.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

### 3.9 Test Instruments List

| Radiated Emission(3m SAC):    |                 |                 |                  |                      |                          |
|-------------------------------|-----------------|-----------------|------------------|----------------------|--------------------------|
| Test Equipment                | Manufacturer    | Model No.       | Manage No.       | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| 3m SAC                        | ETS             | 9m*6m*6m        | WXJ001-1         | 04-14-2021           | 04-13-2024               |
| Loop Antenna                  | Schwarzbeck     | FMZB 1519 B     | WXJ002-4         | 03-07-2022           | 03-06-2023               |
| BiConiLog Antenna             | Schwarzbeck     | VULB9163        | WXJ002           | 03-08-2022           | 03-07-2023               |
| Horn Antenna                  | Schwarzbeck     | BBHA9120D       | WXJ002-2         | 03-08-2022           | 03-07-2023               |
| Horn Antenna                  | Schwarzbeck     | BBHA9170        | WXJ002-5         | 04-07-2022           | 04-06-2023               |
| Pre-amplifier (30MHz ~ 1GHz)  | Schwarzbeck     | BBV9743B        | WXJ001-2         | 01-20-2022           | 01-19-2023               |
| Pre-amplifier (1GHz ~ 18GHz)  | SKET            | LNPA_0118G-50   | WXJ001-3         | 01-20-2022           | 01-19-2023               |
| Pre-amplifier (18GHz ~ 40GHz) | RF System       | TRLA-180400G45B | WXJ002-7         | 03-30-2022           | 03-29-2023               |
| EMI Test Receiver             | Rohde & Schwarz | ESRP7           | WXJ003-1         | 03-05-2022           | 03-04-2023               |
| Spectrum Analyzer             | Rohde & Schwarz | FSP 30          | WXJ004           | 01-20-2022           | 01-19-2023               |
| Spectrum Analyzer             | KEYSIGHT        | N9010B          | WXJ004-2         | 10-17-2022           | 10-16-2023               |
| Coaxial Cable (30MHz ~ 1GHz)  | JYTSZ           | JYT3M-1G-NN-8M  | WXG001-4         | 01-20-2022           | 01-19-2023               |
| Coaxial Cable (1GHz ~ 18GHz)  | JYTSZ           | JYT3M-18G-NN-8M | WXG001-5         | 01-20-2022           | 01-19-2023               |
| Coaxial Cable (18GHz ~ 40GHz) | JYTSZ           | JYT3M-40G-SS-8M | WXG001-7         | 01-20-2022           | 01-19-2023               |
| Band Reject Filter Group      | Tonscend        | JS0806-F        | WXJ089           | N/A                  |                          |
| Test Software                 | Tonscend        | TS+             | Version: 3.0.0.1 |                      |                          |

| Conducted Emission:               |                 |                |                    |                      |                          |
|-----------------------------------|-----------------|----------------|--------------------|----------------------|--------------------------|
| Test Equipment                    | Manufacturer    | Model No.      | Manage No.         | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| EMI Test Receiver                 | Rohde & Schwarz | ESR3           | WXJ003-2           | 07-12-2022           | 07-11-2023               |
| LISN                              | Schwarzbeck     | NSLK 8127      | QCJ001-13          | 02-24-2022           | 02-23-2023               |
| LISN                              | Rohde & Schwarz | ESH3-Z5        | WXJ005-1           | 03-30-2022           | 03-29-2023               |
| LISN Coaxial Cable (9kHz ~ 30MHz) | JYTSZ           | JYTCE-1G-NN-2M | WXG003-1           | 02-24-2022           | 02-23-2023               |
| RF Switch                         | TOP PRECISION   | RSU0301        | WXG003             | N/A                  |                          |
| Test Software                     | AUDIX           | E3             | Version: 6.110919b |                      |                          |

| Conducted Method:            |              |            |                  |                      |                          |
|------------------------------|--------------|------------|------------------|----------------------|--------------------------|
| Test Equipment               | Manufacturer | Model No.  | Manage No.       | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| Spectrum Analyzer            | Keysight     | N9010B     | WXJ004-3         | 10-17-2022           | 10-16-2023               |
| DC Power Supply              | Keysight     | E3642A     | WXJ025-2         | N/A                  |                          |
| Temperature Humidity Chamber | ZHONG ZHI    | CZ-A-80D   | WXJ032-3         | 03-19-2021           | 03-18-2023               |
| Power Detector Box           | MWRFTTEST    | MW100-PSB  | WXJ007-4         | 10-17-2022           | 10-16-2023               |
| RF Control Unit              | MWRFTTEST    | MW100-RFCB | WXG006           | N/A                  |                          |
| Test Software                | MWRFTTEST    | MTS 8310   | Version: 2.0.0.0 |                      |                          |

## 4 Measurement Setup and Procedure

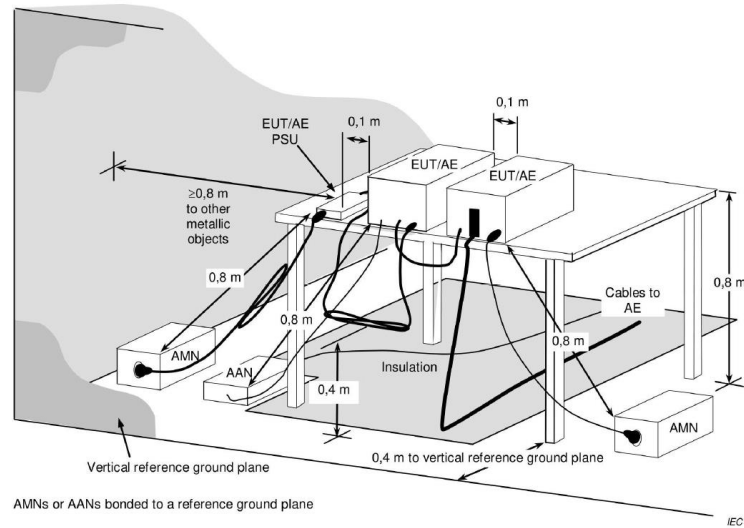
### 4.1 Test Channel

According to ANSI C63.10-2013 chapter 5.6.1 Table 4 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

| Operation frequency: 5150 MHz – 5250 MHz |                |                 |                |                 |                 |                 |
|------------------------------------------|----------------|-----------------|----------------|-----------------|-----------------|-----------------|
| Modulation mode                          | Lowest channel |                 | Middle channel |                 | Highest channel |                 |
|                                          | Channel No.    | Frequency (MHz) | Channel No.    | Frequency (MHz) | Channel No.     | Frequency (MHz) |
| 802.11a, n-HT20, ac-VHT20                | 36             | 5180            | 40             | 5200            | 48              | 5240            |
| 802.11n-HT40, ac-VHT40                   | 38             | 5190            | /              | /               | 46              | 5230            |
| 802.11ac-VHT80                           | /              | /               | 42             | 5210            | /               | /               |
| Operation frequency: 5725 MHz – 5850 MHz |                |                 |                |                 |                 |                 |
| Modulation mode                          | Lowest channel |                 | Middle channel |                 | Highest channel |                 |
|                                          | Channel No.    | Frequency (MHz) | Channel No.    | Frequency (MHz) | Channel No.     | Frequency (MHz) |
| 802.11a, n-HT20, ac-VHT20                | 149            | 5745            | 157            | 5785            | 165             | 5825            |
| 802.11n-HT40, ac-VHT40                   | 151            | 5755            | /              | /               | 159             | 5795            |
| 802.11ac-VHT80                           | /              | /               | 155            | 5775            | /               | /               |

## 4.2 Test Setup

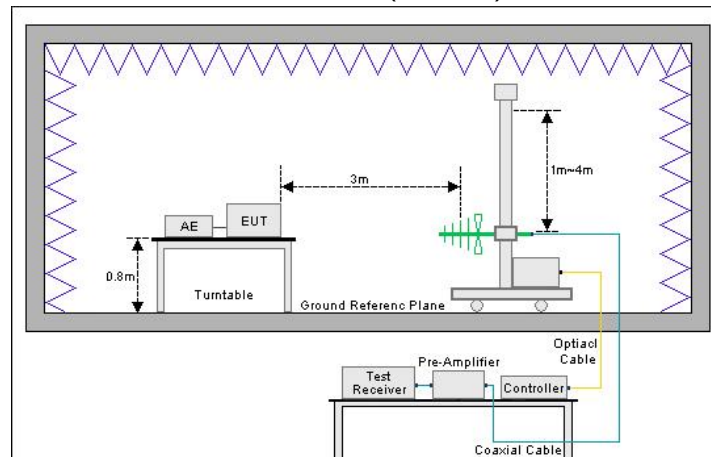
### 1) Conducted emission measurement:



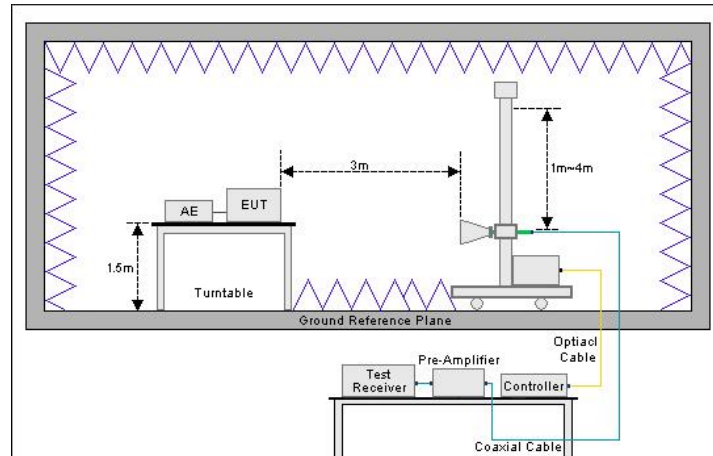
**Note:** The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

### 2) Radiated emission measurement:

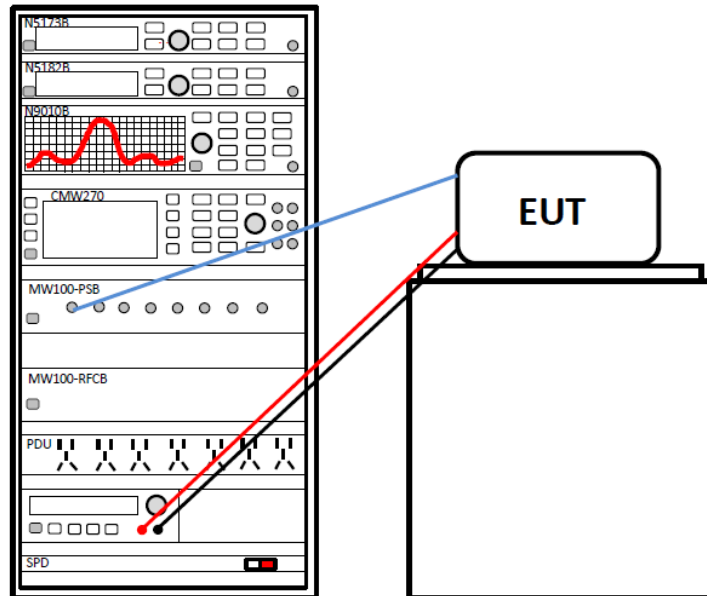
Below 1GHz (3m SAC)



Above 1GHz (3m SAC)



### 3) Conducted test method



### 4.3 Test Procedure

| Test method           | Test step                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conducted emission    | <ol style="list-style-type: none"> <li>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Radiated emission     | <p><b>For below 1GHz:</b></p> <ol style="list-style-type: none"> <li>1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.</li> <li>2. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.</li> <li>3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.</li> </ol> <p><b>For above 1GHz:</b></p> <ol style="list-style-type: none"> <li>1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m.</li> <li>2. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.</li> <li>3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.</li> </ol> |
| Conducted test method | <ol style="list-style-type: none"> <li>1. The Wi-Fi antenna port of EUT was connected to the test port of the test system through an RF cable.</li> <li>2. The EUT is keeping in continuous transmission mode and tested in all modulation modes.</li> <li>3. Open the test software, prepare a test plan, and control the system through the software. After the test is completed, the test report is exported through the test software.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## 5 Test Results

### 5.1 Summary

#### 5.1.1 Clause and Data Summary

| Test items                                                                                                                                                                                                                                                   | Standard clause                                                                   | Test data                                          | Result |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------|--------|
| Antenna Requirement                                                                                                                                                                                                                                          | 15.203                                                                            | See Section 5.2                                    | Pass   |
| AC Power Line Conducted Emission                                                                                                                                                                                                                             | 15.207<br>15.407 (b)(9)                                                           | See Section 5.3                                    | Pass   |
| Duty Cycle                                                                                                                                                                                                                                                   | ANSI C63.10-2013                                                                  | Appendix A – 5.2G Wi-Fi<br>Appendix A – 5.8G Wi-Fi | Pass   |
| Conducted Peak Output Power<br>Power Spectral Density                                                                                                                                                                                                        | 15.407 (a)(1)(iv), (a)(3)(i)                                                      | Appendix A – 5.2G Wi-Fi<br>Appendix A – 5.8G Wi-Fi | Pass   |
| 26dB Emission Bandwidth<br>99% Occupied Bandwidth                                                                                                                                                                                                            | 15.407 (a)(12)                                                                    | Appendix A – 5.2G Wi-Fi<br>Appendix A – 5.8G Wi-Fi | Pass   |
| 6dB Emission Bandwidth                                                                                                                                                                                                                                       | 15.407 (e)                                                                        | Appendix A – 5.2G Wi-Fi<br>Appendix A – 5.8G Wi-Fi | Pass   |
| Unwanted Emissions                                                                                                                                                                                                                                           | 15.205<br>15.209<br>15.407 (b)(1), (4), (9), (10)                                 | See Section 5.4                                    | Pass   |
| Frequency Stability                                                                                                                                                                                                                                          | 15.407 (g)                                                                        | Appendix A – 5.2G Wi-Fi<br>Appendix A – 5.8G Wi-Fi | Pass   |
| Dynamic frequency selection                                                                                                                                                                                                                                  | 15.407 (h)(2)                                                                     | N/A                                                | N/A    |
| <b>Remark:</b><br>1. Pass: The EUT complies with the essential requirements in the standard.<br>2. N/A: Not Applicable.<br>3. The cable insertion loss used by “RF Output Power” and other conduction measurement items is 1.0dB (provided by the customer). |                                                                                   |                                                    |        |
| <b>Test Method:</b>                                                                                                                                                                                                                                          | ANSI C63.10-2013<br>KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 |                                                    |        |

## 5.1.2 Test Limit

| Test items                                                | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                |              |  |            |         |            |                                |                                |         |    |    |        |    |    |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------|--|------------|---------|------------|--------------------------------|--------------------------------|---------|----|----|--------|----|----|
| AC Power Line Conducted Emission                          | <table><tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Limit (dBμV)</th></tr><tr><th>Quasi-Peak</th><th>Average</th></tr><tr><td>0.15 – 0.5</td><td>66 to 56 <small>Note 1</small></td><td>56 to 46 <small>Note 1</small></td></tr><tr><td>0.5 – 5</td><td>56</td><td>46</td></tr><tr><td>5 – 30</td><td>60</td><td>50</td></tr></table> <p><b>Note 1:</b> The limit level in dBμV decreases linearly with the logarithm of frequency.<br/><b>Note 2:</b> The more stringent limit applies at transition frequencies.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Frequency (MHz)                | Limit (dBμV) |  | Quasi-Peak | Average | 0.15 – 0.5 | 66 to 56 <small>Note 1</small> | 56 to 46 <small>Note 1</small> | 0.5 – 5 | 56 | 46 | 5 – 30 | 60 | 50 |
| Frequency (MHz)                                           | Limit (dBμV)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                |              |  |            |         |            |                                |                                |         |    |    |        |    |    |
|                                                           | Quasi-Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Average                        |              |  |            |         |            |                                |                                |         |    |    |        |    |    |
| 0.15 – 0.5                                                | 66 to 56 <small>Note 1</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 56 to 46 <small>Note 1</small> |              |  |            |         |            |                                |                                |         |    |    |        |    |    |
| 0.5 – 5                                                   | 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 46                             |              |  |            |         |            |                                |                                |         |    |    |        |    |    |
| 5 – 30                                                    | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 50                             |              |  |            |         |            |                                |                                |         |    |    |        |    |    |
| Conducted Peak Output Power<br><br>Power Spectral Density | <p><b>For the 5.15-5.25 GHz band:</b></p> <p>For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p> <p><b>For the band 5.725-5.895 GHz:</b></p> <p>For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, Fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.</p> |                                |              |  |            |         |            |                                |                                |         |    |    |        |    |    |
| 26dB Emission Bandwidth<br>99% Occupied Bandwidth         | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |              |  |            |         |            |                                |                                |         |    |    |        |    |    |
| 6dB Emission Bandwidth                                    | Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                |              |  |            |         |            |                                |                                |         |    |    |        |    |    |

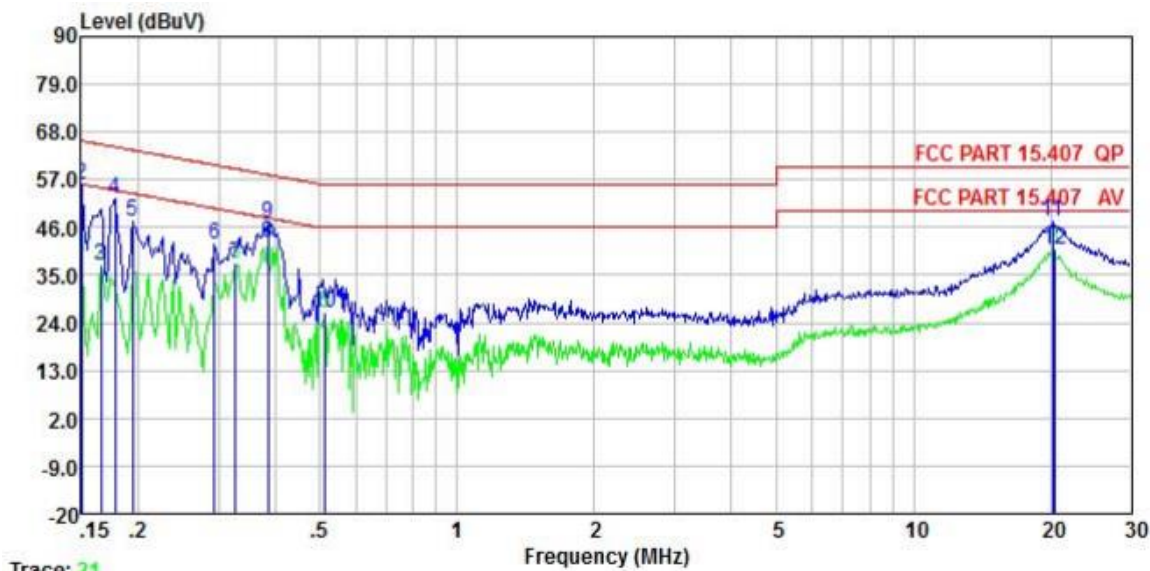
| Unwanted Emissions  | <p>(1) <b>For transmitters operating in the 5.15-5.25 GHz band:</b> All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(2) <b>For transmitters operating solely in the 5.725-5.850 GHz band:</b> All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p> <p>(3) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. The provisions of § 15.205 apply to intentional radiators operating under this section:</p> <table><tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Limit (dBµV/m)</th><th rowspan="2">Detector</th></tr><tr><th>@ 3m</th><th>@ 10m</th></tr><tr><td>30 – 88</td><td>40.0</td><td>30.0</td><td>Quasi-peak</td></tr><tr><td>88 – 216</td><td>43.5</td><td>33.5</td><td>Quasi-peak</td></tr><tr><td>216 – 960</td><td>46.0</td><td>36.0</td><td>Quasi-peak</td></tr><tr><td>960 – 1000</td><td>54.0</td><td>44.0</td><td>Quasi-peak</td></tr></table> <p><b>Note:</b> The more stringent limit applies at transition frequencies.</p> <table><tr><th rowspan="2">Frequency</th><th colspan="2">Limit (dBµV/m) @ 3m</th></tr><tr><th>Average</th><th>Peake</th></tr><tr><td>Above 1 GHz</td><td>54.0</td><td>74.0</td></tr></table> <p><b>Note:</b> The measurement bandwidth shall be 1 MHz or greater.</p> | Frequency (MHz) | Limit (dBµV/m) |  | Detector | @ 3m | @ 10m | 30 – 88 | 40.0 | 30.0 | Quasi-peak | 88 – 216 | 43.5 | 33.5 | Quasi-peak | 216 – 960 | 46.0 | 36.0 | Quasi-peak | 960 – 1000 | 54.0 | 44.0 | Quasi-peak | Frequency | Limit (dBµV/m) @ 3m |  | Average | Peake | Above 1 GHz | 54.0 | 74.0 |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|--|----------|------|-------|---------|------|------|------------|----------|------|------|------------|-----------|------|------|------------|------------|------|------|------------|-----------|---------------------|--|---------|-------|-------------|------|------|
| Frequency (MHz)     | Limit (dBµV/m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 | Detector       |  |          |      |       |         |      |      |            |          |      |      |            |           |      |      |            |            |      |      |            |           |                     |  |         |       |             |      |      |
|                     | @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | @ 10m           |                |  |          |      |       |         |      |      |            |          |      |      |            |           |      |      |            |            |      |      |            |           |                     |  |         |       |             |      |      |
| 30 – 88             | 40.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 30.0            | Quasi-peak     |  |          |      |       |         |      |      |            |          |      |      |            |           |      |      |            |            |      |      |            |           |                     |  |         |       |             |      |      |
| 88 – 216            | 43.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 33.5            | Quasi-peak     |  |          |      |       |         |      |      |            |          |      |      |            |           |      |      |            |            |      |      |            |           |                     |  |         |       |             |      |      |
| 216 – 960           | 46.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 36.0            | Quasi-peak     |  |          |      |       |         |      |      |            |          |      |      |            |           |      |      |            |            |      |      |            |           |                     |  |         |       |             |      |      |
| 960 – 1000          | 54.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 44.0            | Quasi-peak     |  |          |      |       |         |      |      |            |          |      |      |            |           |      |      |            |            |      |      |            |           |                     |  |         |       |             |      |      |
| Frequency           | Limit (dBµV/m) @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                |  |          |      |       |         |      |      |            |          |      |      |            |           |      |      |            |            |      |      |            |           |                     |  |         |       |             |      |      |
|                     | Average                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Peake           |                |  |          |      |       |         |      |      |            |          |      |      |            |           |      |      |            |            |      |      |            |           |                     |  |         |       |             |      |      |
| Above 1 GHz         | 54.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 74.0            |                |  |          |      |       |         |      |      |            |          |      |      |            |           |      |      |            |            |      |      |            |           |                     |  |         |       |             |      |      |
| Frequency Stability | Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |                |  |          |      |       |         |      |      |            |          |      |      |            |           |      |      |            |            |      |      |            |           |                     |  |         |       |             |      |      |

## 5.2 Antenna requirement

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <b>Standard requirement:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | FCC Part 15 C Section 15.203 |
| <p>15.203 requirement:<br/>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p>                                                         |                              |
| <b>E.U.T Antenna:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              |
| <p>The Wi-Fi antenna is an Internal antenna, its connector is a special connection port and which cannot replace by end-user, 5.2GWi-Fi the best case gain of the antenna is 6 dBi, 5.8GWi-Fi the best case gain of the antenna is 6 dBi. See product internal photos for details.<br/>Note: For MIMO mode, EUT with equal antenna gains, with equal transmit powers. The transmit signals are correlated, then<br/>Directional gain = Directional gain = <math>G_{ANT} + 10 \log(N_{ANT})</math> dBi; So Directional gain = 9.01dBi.</p> |                              |

### 5.3 AC Power Line Conducted Emission

|                 |                  |                |               |
|-----------------|------------------|----------------|---------------|
| Product name:   | Smart Gateway    | Product model: | DSGW-023      |
| Test by:        | Mike             | Test mode:     | 5G Wi-Fi mode |
| Test frequency: | 150 kHz ~ 30 MHz | Phase:         | Line          |
| Test voltage:   | AC 120 V/60 Hz   |                |               |

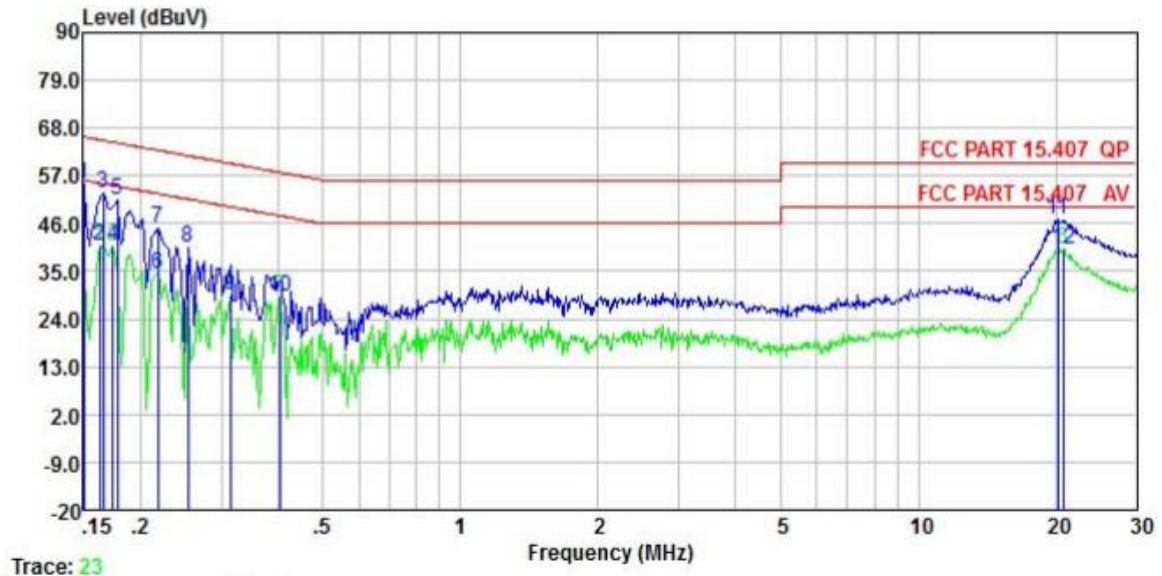


|    | Freq   | Read Level | LISN Factor | Aux2 Factor | Cable Loss | Level | Limit Line | Over Limit | Remark  |
|----|--------|------------|-------------|-------------|------------|-------|------------|------------|---------|
|    | MHz    | dBuV       | dB          | dB          | dB         | dBuV  | dBuV       | dB         |         |
| 1  | 0.150  | 28.59      | 0.04        | 10.50       | 0.01       | 39.14 | 56.00      | -16.86     | Average |
| 2  | 0.150  | 45.22      | 0.04        | 10.50       | 0.01       | 55.77 | 66.00      | -10.23     | QP      |
| 3  | 0.166  | 26.68      | 0.04        | 10.50       | 0.01       | 37.23 | 55.16      | -17.93     | Average |
| 4  | 0.178  | 41.95      | 0.05        | 10.50       | 0.01       | 52.51 | 64.59      | -12.08     | QP      |
| 5  | 0.194  | 36.76      | 0.05        | 10.50       | 0.03       | 47.34 | 63.84      | -16.50     | QP      |
| 6  | 0.294  | 31.53      | 0.06        | 10.50       | 0.03       | 42.12 | 60.41      | -18.29     | QP      |
| 7  | 0.327  | 27.18      | 0.06        | 10.50       | 0.02       | 37.76 | 49.53      | -11.77     | Average |
| 8  | 0.385  | 31.91      | 0.06        | 10.50       | 0.03       | 42.50 | 48.17      | -5.67      | Average |
| 9  | 0.385  | 36.20      | 0.06        | 10.50       | 0.03       | 46.79 | 58.17      | -11.38     | QP      |
| 10 | 0.513  | 15.87      | 0.05        | 10.50       | 0.03       | 26.45 | 46.00      | -19.55     | Average |
| 11 | 20.162 | 36.43      | 0.34        | 10.50       | 0.19       | 47.46 | 60.00      | -12.54     | QP      |
| 12 | 20.377 | 29.98      | 0.34        | 10.50       | 0.19       | 41.01 | 50.00      | -8.99      | Average |

#### Remark:

1. Level = Read level + LISN Factor + Cable Loss.

|                 |                  |                |               |
|-----------------|------------------|----------------|---------------|
| Product name:   | Smart Gateway    | Product model: | DSGW-023      |
| Test by:        | Mike             | Test mode:     | 5G Wi-Fi mode |
| Test frequency: | 150 kHz ~ 30 MHz | Phase:         | Neutral       |
| Test voltage:   | AC 120 V/60 Hz   |                |               |



|    | Freq   | Read Level | LISN Factor | Aux2 Factor | Cable Loss | Level | Limit Line | Over Limit | Remark  |
|----|--------|------------|-------------|-------------|------------|-------|------------|------------|---------|
|    | MHz    | dBuV       | dB          | dB          | dB         | dBuV  | dBuV       | dB         |         |
| 1  | 0.150  | 44.66      | 0.06        | 10.50       | 0.01       | 55.23 | 66.00      | -10.77     | QP      |
| 2  | 0.162  | 30.33      | 0.06        | 10.50       | 0.01       | 40.90 | 55.34      | -14.44     | Average |
| 3  | 0.166  | 42.61      | 0.06        | 10.50       | 0.01       | 53.18 | 65.16      | -11.98     | QP      |
| 4  | 0.174  | 30.35      | 0.05        | 10.50       | 0.01       | 40.91 | 54.77      | -13.86     | Average |
| 5  | 0.178  | 40.94      | 0.05        | 10.50       | 0.01       | 51.50 | 64.59      | -13.09     | QP      |
| 6  | 0.219  | 23.96      | 0.05        | 10.50       | 0.03       | 34.54 | 52.88      | -18.34     | Average |
| 7  | 0.219  | 34.17      | 0.05        | 10.50       | 0.03       | 44.75 | 62.88      | -18.13     | QP      |
| 8  | 0.253  | 29.74      | 0.05        | 10.50       | 0.01       | 40.30 | 61.64      | -21.34     | QP      |
| 9  | 0.313  | 18.87      | 0.05        | 10.50       | 0.03       | 29.45 | 49.88      | -20.43     | Average |
| 10 | 0.402  | 18.67      | 0.04        | 10.50       | 0.04       | 29.25 | 47.81      | -18.56     | Average |
| 11 | 20.162 | 35.85      | 0.33        | 10.50       | 0.19       | 46.87 | 60.00      | -13.13     | QP      |
| 12 | 20.704 | 29.07      | 0.34        | 10.50       | 0.18       | 40.09 | 50.00      | -9.91      | Average |

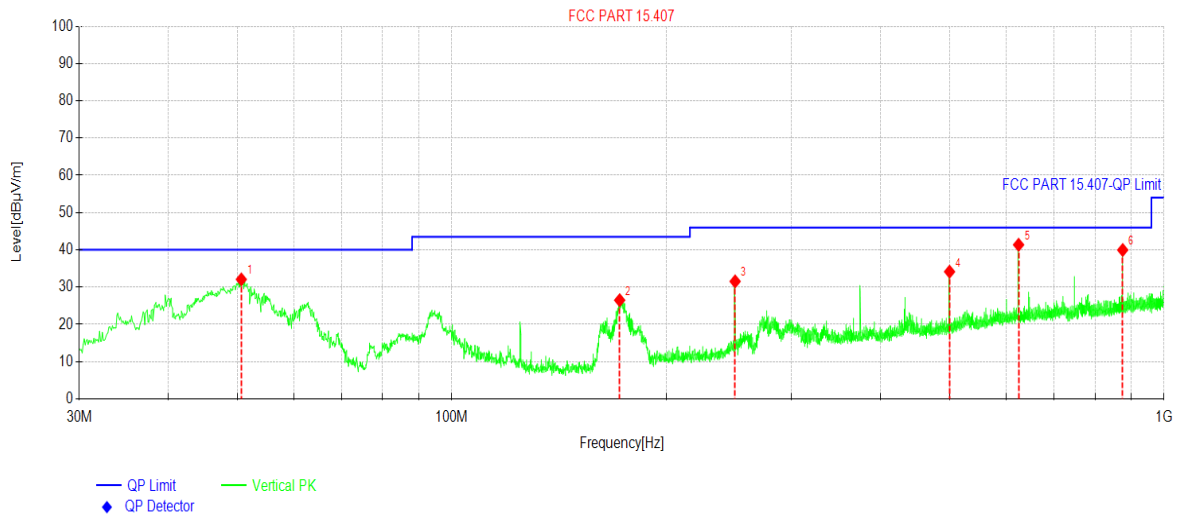
**Remark:**

1. Level = Read level + LISN Factor + Cable Loss.

## 5.4 Unwanted Emissions

Below 1GHz:

|                 |                |                |               |
|-----------------|----------------|----------------|---------------|
| Product Name:   | Smart Gateway  | Product Model: | DSGW-023      |
| Test By:        | Mike           | Test mode:     | 5G Wi-Fi mode |
| Test Frequency: | 30 MHz ~ 1 GHz | Polarization:  | Vertical      |
| Test Voltage:   | AC 120/60Hz    |                |               |



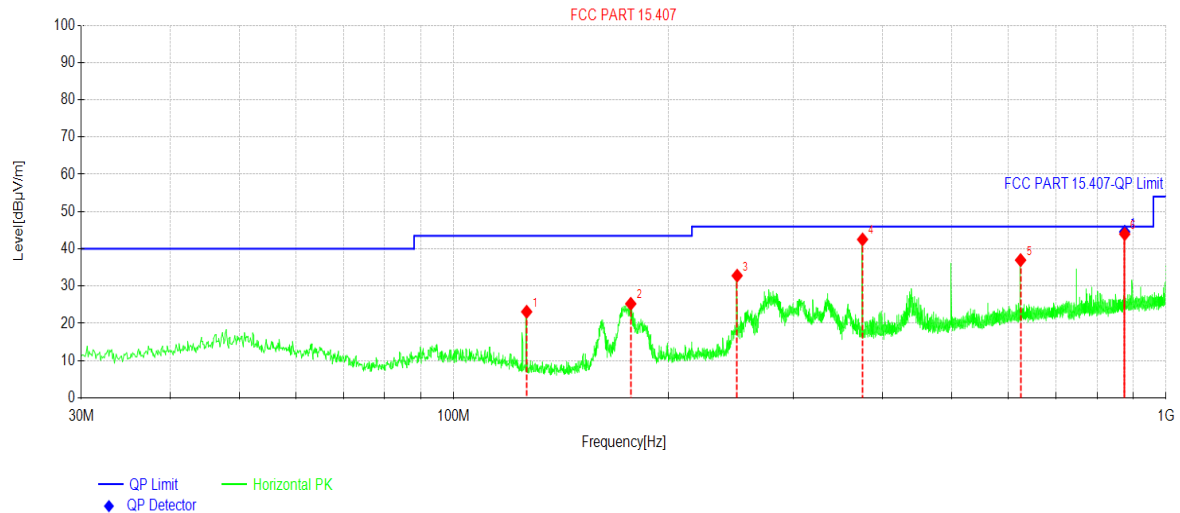
### Suspected Data List

| NO. | Freq. [MHz] | Reading [dBμV/m] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Trace | Polarity |
|-----|-------------|------------------|----------------|-------------|----------------|-------------|-------|----------|
| 1   | 50.6631     | 44.90            | 32.07          | -12.83      | 40.00          | 7.93        | PK    | Vertical |
| 2   | 172.119     | 43.97            | 26.49          | -17.48      | 43.50          | 17.01       | PK    | Vertical |
| 3   | 250.018     | 45.53            | 31.53          | -14.00      | 46.00          | 14.47       | PK    | Vertical |
| 4   | 500.012     | 43.13            | 34.14          | -8.99       | 46.00          | 11.86       | PK    | Vertical |
| 5   | 624.960     | 47.69            | 41.36          | -6.33       | 46.00          | 4.64        | PK    | Vertical |
| 6   | 875.051     | 42.98            | 39.96          | -3.02       | 46.00          | 6.04        | PK    | Vertical |

### Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

|                 |                |                |               |
|-----------------|----------------|----------------|---------------|
| Product Name:   | Smart Gateway  | Product Model: | DSGW-023      |
| Test By:        | Mike           | Test mode:     | 5G Wi-Fi mode |
| Test Frequency: | 30 MHz ~ 1 GHz | Polarization:  | Horizontal    |
| Test Voltage:   | AC 120/60Hz    |                |               |



#### Suspected Data List

| NO. | Freq. [MHz] | Reading [dBμV/m] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Trace | Polarity   |
|-----|-------------|------------------|----------------|-------------|----------------|-------------|-------|------------|
| 1   | 126.621     | 40.77            | 23.11          | -17.66      | 43.50          | 20.39       | PK    | Horizontal |
| 2   | 177.260     | 42.47            | 25.26          | -17.21      | 43.50          | 18.24       | PK    | Horizontal |
| 3   | 250.018     | 46.80            | 32.80          | -14.00      | 46.00          | 13.20       | PK    | Horizontal |
| 4   | 374.966     | 53.61            | 42.52          | -11.09      | 46.00          | 3.48        | PK    | Horizontal |
| 5   | 625.057     | 43.29            | 36.97          | -6.32       | 46.00          | 9.03        | PK    | Horizontal |
| 6   | 875.051     | 46.98            | 43.96          | -3.02       | 46.00          | 2.04        | PK    | Horizontal |

#### Final Data List

| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | QP Reading [dBμV/m] | Angle [°] | Verdict |
|-----|-------------|-------------|-------------------|-------------------|----------------|---------------------|-----------|---------|
| 1   | 874.988     | -3.02       | 44.58             | 46.00             | 1.42           | 47.60               | 264.8     | PASS    |

#### Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Above 1GHz:

ANT1:

| Band 1: 5150 MHz - 5250 MHz, 802.11a                                                                                                                                                  |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Lowest channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 40.42             | 15.74       | 56.16          | 74.00          | 17.84       | Vertical     |
| 10360.00                                                                                                                                                                              | 52.79             | 4.88        | 57.67          | 68.20          | 10.53       | Vertical     |
| 5150.00                                                                                                                                                                               | 35.39             | 15.74       | 51.13          | 74.00          | 22.87       | Horizontal   |
| 10360.00                                                                                                                                                                              | 52.05             | 4.88        | 56.93          | 68.20          | 11.27       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 29.20             | 15.74       | 44.94          | 54.00          | 9.06        | Vertical     |
| 5150.00                                                                                                                                                                               | 26.23             | 15.74       | 41.97          | 54.00          | 12.03       | Horizontal   |
| Test channel: Middle channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 10400.00                                                                                                                                                                              | 53.03             | 4.71        | 57.74          | 68.20          | 10.46       | Vertical     |
| 10400.00                                                                                                                                                                              | 52.13             | 4.71        | 56.84          | 68.20          | 11.36       | Horizontal   |
| Test channel: Highest channel                                                                                                                                                         |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 40.70             | 16.49       | 57.19          | 74.00          | 16.81       | Vertical     |
| 10480.00                                                                                                                                                                              | 52.96             | 5.38        | 58.34          | 68.20          | 9.86        | Vertical     |
| 5350.00                                                                                                                                                                               | 35.39             | 16.49       | 51.88          | 74.00          | 22.12       | Horizontal   |
| 10480.00                                                                                                                                                                              | 52.39             | 5.38        | 57.77          | 68.20          | 10.43       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 29.15             | 16.49       | 45.64          | 54.00          | 8.36        | Vertical     |
| 5350.00                                                                                                                                                                               | 26.00             | 16.49       | 42.49          | 54.00          | 11.51       | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

**ANT2:**

| Band 1: 5150 MHz - 5250 MHz, 802.11a                                                                                                                                                  |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Lowest channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 40.33             | 15.74       | 56.07          | 74.00          | 17.93       | Vertical     |
| 10360.00                                                                                                                                                                              | 52.61             | 4.88        | 57.49          | 68.20          | 10.71       | Vertical     |
| 5150.00                                                                                                                                                                               | 35.26             | 15.74       | 51.00          | 74.00          | 23.00       | Horizontal   |
| 10360.00                                                                                                                                                                              | 52.06             | 4.88        | 56.94          | 68.20          | 11.26       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 29.29             | 15.74       | 45.03          | 54.00          | 8.97        | Vertical     |
| 5150.00                                                                                                                                                                               | 26.15             | 15.74       | 41.89          | 54.00          | 12.11       | Horizontal   |
| Test channel: Middle channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 10400.00                                                                                                                                                                              | 52.79             | 4.71        | 57.50          | 68.20          | 10.70       | Vertical     |
| 10400.00                                                                                                                                                                              | 52.33             | 4.71        | 57.04          | 68.20          | 11.16       | Horizontal   |
| Test channel: Highest channel                                                                                                                                                         |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 40.68             | 16.49       | 57.17          | 74.00          | 16.83       | Vertical     |
| 10480.00                                                                                                                                                                              | 52.50             | 5.38        | 57.88          | 68.20          | 10.32       | Vertical     |
| 5350.00                                                                                                                                                                               | 35.19             | 16.49       | 51.68          | 74.00          | 22.32       | Horizontal   |
| 10480.00                                                                                                                                                                              | 52.53             | 5.38        | 57.91          | 68.20          | 10.29       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 29.03             | 16.49       | 45.52          | 54.00          | 8.48        | Vertical     |
| 5350.00                                                                                                                                                                               | 25.96             | 16.49       | 42.45          | 54.00          | 11.55       | Horizontal   |
| <b>Remark:</b><br>3. Level = Reading + Factor.<br>4. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Band 1: 5150 MHz - 5250 MHz, 802.11n-HT20                                                                                                                                             |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Lowest channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 40.14             | 15.74       | 55.88          | 74.00          | 18.12       | Vertical     |
| 10360.00                                                                                                                                                                              | 53.08             | 4.88        | 57.96          | 68.20          | 10.24       | Vertical     |
| 5150.00                                                                                                                                                                               | 35.26             | 15.74       | 51.00          | 74.00          | 23.00       | Horizontal   |
| 10360.00                                                                                                                                                                              | 52.46             | 4.88        | 57.34          | 68.20          | 10.86       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 29.00             | 15.74       | 44.74          | 54.00          | 9.26        | Vertical     |
| 5150.00                                                                                                                                                                               | 26.42             | 15.74       | 42.16          | 54.00          | 11.84       | Horizontal   |
| Test channel: Middle channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 10400.00                                                                                                                                                                              | 52.34             | 4.71        | 57.05          | 68.20          | 11.15       | Vertical     |
| 10400.00                                                                                                                                                                              | 52.34             | 4.71        | 57.05          | 68.20          | 11.15       | Horizontal   |
| Test channel: Highest channel                                                                                                                                                         |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 40.90             | 16.49       | 57.39          | 74.00          | 16.61       | Vertical     |
| 10480.00                                                                                                                                                                              | 52.00             | 5.38        | 57.38          | 68.20          | 10.82       | Vertical     |
| 5350.00                                                                                                                                                                               | 34.75             | 16.49       | 51.24          | 74.00          | 22.76       | Horizontal   |
| 10480.00                                                                                                                                                                              | 53.02             | 5.38        | 58.40          | 68.20          | 9.80        | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 28.77             | 16.49       | 45.26          | 54.00          | 8.74        | Vertical     |
| 5350.00                                                                                                                                                                               | 26.11             | 16.49       | 42.60          | 54.00          | 11.40       | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Band 1: 5150 MHz - 5250 MHz, 802.11n-HT40                                                                                                                                             |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Lowest channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 38.13             | 15.74       | 53.87          | 74.00          | 20.13       | Vertical     |
| 10380.00                                                                                                                                                                              | 53.41             | 4.79        | 58.20          | 68.20          | 10.00       | Vertical     |
| 5150.00                                                                                                                                                                               | 35.39             | 15.74       | 51.13          | 74.00          | 22.87       | Horizontal   |
| 10380.00                                                                                                                                                                              | 51.68             | 4.79        | 56.47          | 68.20          | 11.73       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 29.88             | 15.74       | 45.62          | 54.00          | 8.38        | Vertical     |
| 5150.00                                                                                                                                                                               | 26.20             | 15.74       | 41.94          | 54.00          | 12.06       | Horizontal   |
| Test channel: Highest channel                                                                                                                                                         |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 34.67             | 16.49       | 51.16          | 74.00          | 22.84       | Vertical     |
| 10460.00                                                                                                                                                                              | 53.88             | 5.21        | 59.09          | 68.20          | 9.11        | Vertical     |
| 5350.00                                                                                                                                                                               | 33.50             | 16.49       | 49.99          | 74.00          | 24.01       | Horizontal   |
| 10460.00                                                                                                                                                                              | 51.60             | 5.21        | 56.81          | 68.20          | 11.39       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 25.60             | 16.49       | 42.09          | 54.00          | 11.91       | Vertical     |
| 5350.00                                                                                                                                                                               | 26.17             | 16.49       | 42.66          | 54.00          | 11.34       | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Band 1: 5150 MHz - 5250 MHz, 802.11ac-VHT20                                                                                                                                           |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Lowest channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 39.84             | 15.74       | 55.58          | 74.00          | 18.42       | Vertical     |
| 10360.00                                                                                                                                                                              | 53.17             | 4.88        | 58.05          | 68.20          | 10.15       | Vertical     |
| 5150.00                                                                                                                                                                               | 35.12             | 15.74       | 50.86          | 74.00          | 23.14       | Horizontal   |
| 10360.00                                                                                                                                                                              | 52.72             | 4.88        | 57.60          | 68.20          | 10.60       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 29.09             | 15.74       | 44.83          | 54.00          | 9.17        | Vertical     |
| 5150.00                                                                                                                                                                               | 26.33             | 15.74       | 42.07          | 54.00          | 11.93       | Horizontal   |
| Test channel: Middle channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 10400.00                                                                                                                                                                              | 52.64             | 4.71        | 57.35          | 68.20          | 10.85       | Vertical     |
| 10400.00                                                                                                                                                                              | 51.85             | 4.71        | 56.56          | 68.20          | 11.64       | Horizontal   |
| Test channel: Highest channel                                                                                                                                                         |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 40.64             | 16.49       | 57.13          | 74.00          | 16.87       | Vertical     |
| 10480.00                                                                                                                                                                              | 51.74             | 5.38        | 57.12          | 68.20          | 11.08       | Vertical     |
| 5350.00                                                                                                                                                                               | 35.23             | 16.49       | 51.72          | 74.00          | 22.28       | Horizontal   |
| 10480.00                                                                                                                                                                              | 53.19             | 5.38        | 58.57          | 68.20          | 9.63        | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 28.93             | 16.49       | 45.42          | 54.00          | 8.58        | Vertical     |
| 5350.00                                                                                                                                                                               | 25.98             | 16.49       | 42.47          | 54.00          | 11.53       | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Band 1: 5150 MHz - 5250 MHz, 802.11ac-VHT40                                                                                                                                           |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Lowest channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 38.01             | 15.74       | 53.75          | 74.00          | 20.25       | Vertical     |
| 10380.00                                                                                                                                                                              | 53.41             | 4.79        | 58.20          | 68.20          | 10.00       | Vertical     |
| 5150.00                                                                                                                                                                               | 35.43             | 15.74       | 51.17          | 74.00          | 22.83       | Horizontal   |
| 10380.00                                                                                                                                                                              | 52.11             | 4.79        | 56.90          | 68.20          | 11.30       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 29.47             | 15.74       | 45.21          | 54.00          | 8.79        | Vertical     |
| 5150.00                                                                                                                                                                               | 25.88             | 15.74       | 41.62          | 54.00          | 12.38       | Horizontal   |
| Test channel: Highest channel                                                                                                                                                         |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 34.83             | 16.49       | 51.32          | 74.00          | 22.68       | Vertical     |
| 10460.00                                                                                                                                                                              | 53.50             | 5.21        | 58.71          | 68.20          | 9.49        | Vertical     |
| 5350.00                                                                                                                                                                               | 33.79             | 16.49       | 50.28          | 74.00          | 23.72       | Horizontal   |
| 10460.00                                                                                                                                                                              | 51.88             | 5.21        | 57.09          | 68.20          | 11.11       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5350.00                                                                                                                                                                               | 25.99             | 16.49       | 42.48          | 54.00          | 11.52       | Vertical     |
| 5350.00                                                                                                                                                                               | 26.30             | 16.49       | 42.79          | 54.00          | 11.21       | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Band 1: 5150 MHz - 5250 MHz, 802.11ac-VHT80                                                                                                                                           |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Middle channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 36.91             | 15.74       | 52.65          | 74.00          | 21.35       | Vertical     |
| 5350.00                                                                                                                                                                               | 34.28             | 16.49       | 50.77          | 74.00          | 23.23       | Vertical     |
| 10420.00                                                                                                                                                                              | 53.26             | 4.88        | 58.14          | 68.20          | 10.06       | Vertical     |
| 5150.00                                                                                                                                                                               | 36.14             | 15.74       | 51.88          | 74.00          | 22.12       | Horizontal   |
| 5350.00                                                                                                                                                                               | 35.05             | 16.49       | 51.54          | 74.00          | 22.46       | Horizontal   |
| 10420.00                                                                                                                                                                              | 52.62             | 4.88        | 57.50          | 68.20          | 10.70       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5150.00                                                                                                                                                                               | 28.87             | 15.74       | 44.61          | 54.00          | 9.39        | Vertical     |
| 5350.00                                                                                                                                                                               | 26.11             | 16.49       | 42.60          | 54.00          | 11.4        | Vertical     |
| 5150.00                                                                                                                                                                               | 27.62             | 15.74       | 43.36          | 54.00          | 10.64       | Horizontal   |
| 5350.00                                                                                                                                                                               | 26.31             | 16.49       | 42.80          | 54.00          | 11.2        | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

**ANT1:**

| Band 4: 5725 MHz - 5825 MHz, 802.11a                                                                                                                                                  |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Lowest channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5650.00                                                                                                                                                                               | 35.62             | 17.16       | 52.78          | 68.20          | 15.42       | Vertical     |
| 5700.00                                                                                                                                                                               | 36.52             | 17.35       | 53.87          | 105.20         | 51.33       | Vertical     |
| 5720.00                                                                                                                                                                               | 40.60             | 17.46       | 58.06          | 110.80         | 52.74       | Vertical     |
| 5725.00                                                                                                                                                                               | 50.29             | 17.49       | 67.78          | 122.20         | 54.42       | Vertical     |
| 11490.00                                                                                                                                                                              | 51.01             | 6.61        | 57.62          | 74.00          | 16.38       | Vertical     |
| 5650.00                                                                                                                                                                               | 34.37             | 17.16       | 51.53          | 68.20          | 16.67       | Horizontal   |
| 5700.00                                                                                                                                                                               | 35.01             | 17.35       | 52.36          | 105.20         | 52.84       | Horizontal   |
| 5720.00                                                                                                                                                                               | 36.56             | 17.46       | 54.02          | 110.80         | 56.78       | Horizontal   |
| 5725.00                                                                                                                                                                               | 41.12             | 17.49       | 58.61          | 122.20         | 63.59       | Horizontal   |
| 11490.00                                                                                                                                                                              | 50.55             | 6.61        | 57.16          | 74.00          | 16.84       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11490.00                                                                                                                                                                              | 43.97             | 6.61        | 50.58          | 54.00          | 3.42        | Vertical     |
| 11490.00                                                                                                                                                                              | 43.08             | 6.61        | 49.69          | 54.00          | 4.31        | Horizontal   |
| Test channel: Middle channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11570.00                                                                                                                                                                              | 51.01             | 6.28        | 57.29          | 74.00          | 16.71       | Vertical     |
| 11570.00                                                                                                                                                                              | 50.93             | 6.28        | 57.21          | 74.00          | 16.79       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11570.00                                                                                                                                                                              | 44.21             | 6.28        | 50.49          | 54.00          | 3.51        | Vertical     |
| 11570.00                                                                                                                                                                              | 43.23             | 6.28        | 49.51          | 54.00          | 4.49        | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Test channel: Highest channel                                                                                                                                                         |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5850.00                                                                                                                                                                               | 36.4              | 18.01       | 54.41          | 122.20         | 67.79       | Vertical     |
| 5855.00                                                                                                                                                                               | 33.74             | 18.02       | 51.76          | 110.80         | 59.04       | Vertical     |
| 5875.00                                                                                                                                                                               | 34.71             | 18.07       | 52.78          | 105.20         | 52.42       | Vertical     |
| 5925.00                                                                                                                                                                               | 33.70             | 17.95       | 51.65          | 68.20          | 16.55       | Vertical     |
| 11650.00                                                                                                                                                                              | 50.58             | 6.49        | 57.07          | 74.00          | 16.93       | Vertical     |
| 5850.00                                                                                                                                                                               | 34.81             | 18.01       | 52.82          | 122.20         | 69.38       | Horizontal   |
| 5855.00                                                                                                                                                                               | 34.21             | 18.02       | 52.23          | 110.80         | 58.57       | Horizontal   |
| 5875.00                                                                                                                                                                               | 33.82             | 18.07       | 51.89          | 105.20         | 53.31       | Horizontal   |
| 5925.00                                                                                                                                                                               | 33.81             | 17.95       | 51.76          | 68.20          | 16.44       | Horizontal   |
| 11650.00                                                                                                                                                                              | 50.82             | 6.49        | 57.31          | 74.00          | 16.69       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11650.00                                                                                                                                                                              | 44.05             | 6.49        | 50.54          | 54.00          | 3.46        | Vertical     |
| 11650.00                                                                                                                                                                              | 42.81             | 6.49        | 49.30          | 54.00          | 4.70        | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

**ANT2:**

| Band 4: 5725 MHz - 5825 MHz, 802.11a                                                                                                                                                  |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Lowest channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5650.00                                                                                                                                                                               | 35.74             | 17.16       | 52.90          | 68.20          | 15.30       | Vertical     |
| 5700.00                                                                                                                                                                               | 36.55             | 17.35       | 53.90          | 105.20         | 51.30       | Vertical     |
| 5720.00                                                                                                                                                                               | 40.41             | 17.46       | 57.87          | 110.80         | 52.93       | Vertical     |
| 5725.00                                                                                                                                                                               | 50.49             | 17.49       | 67.98          | 122.20         | 54.22       | Vertical     |
| 11490.00                                                                                                                                                                              | 51.02             | 6.61        | 57.63          | 74.00          | 16.37       | Vertical     |
| 5650.00                                                                                                                                                                               | 34.02             | 17.16       | 51.18          | 68.20          | 17.02       | Horizontal   |
| 5700.00                                                                                                                                                                               | 35.13             | 17.35       | 52.48          | 105.20         | 52.72       | Horizontal   |
| 5720.00                                                                                                                                                                               | 36.67             | 17.46       | 54.13          | 110.80         | 56.67       | Horizontal   |
| 5725.00                                                                                                                                                                               | 40.90             | 17.49       | 58.39          | 122.20         | 63.81       | Horizontal   |
| 11490.00                                                                                                                                                                              | 50.34             | 6.61        | 56.95          | 74.00          | 17.05       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11490.00                                                                                                                                                                              | 44.23             | 6.61        | 50.84          | 54.00          | 3.16        | Vertical     |
| 11490.00                                                                                                                                                                              | 42.89             | 6.61        | 49.50          | 54.00          | 4.50        | Horizontal   |
| Test channel: Middle channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11570.00                                                                                                                                                                              | 51.17             | 6.28        | 57.45          | 74.00          | 16.55       | Vertical     |
| 11570.00                                                                                                                                                                              | 50.51             | 6.28        | 56.79          | 74.00          | 17.21       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11570.00                                                                                                                                                                              | 43.79             | 6.28        | 50.07          | 54.00          | 3.93        | Vertical     |
| 11570.00                                                                                                                                                                              | 42.80             | 6.28        | 49.08          | 54.00          | 4.92        | Horizontal   |
| <b>Remark:</b><br>3. Level = Reading + Factor.<br>4. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Test channel: Highest channel                                                                                                                                                         |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5850.00                                                                                                                                                                               | 36.52             | 18.01       | 54.53          | 122.20         | 67.67       | Vertical     |
| 5855.00                                                                                                                                                                               | 35.13             | 18.02       | 53.15          | 110.80         | 57.65       | Vertical     |
| 5875.00                                                                                                                                                                               | 34.48             | 18.07       | 52.55          | 105.20         | 52.65       | Vertical     |
| 5925.00                                                                                                                                                                               | 35.04             | 17.95       | 52.99          | 68.20          | 15.21       | Vertical     |
| 11650.00                                                                                                                                                                              | 50.26             | 6.49        | 56.75          | 74.00          | 17.25       | Vertical     |
| 5850.00                                                                                                                                                                               | 34.49             | 18.01       | 52.50          | 122.20         | 69.70       | Horizontal   |
| 5855.00                                                                                                                                                                               | 33.55             | 18.02       | 51.57          | 110.80         | 59.23       | Horizontal   |
| 5875.00                                                                                                                                                                               | 35.58             | 18.07       | 53.65          | 105.20         | 51.55       | Horizontal   |
| 5925.00                                                                                                                                                                               | 33.56             | 17.95       | 51.51          | 68.20          | 16.69       | Horizontal   |
| 11650.00                                                                                                                                                                              | 50.46             | 6.49        | 56.95          | 74.00          | 17.05       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11650.00                                                                                                                                                                              | 43.87             | 6.49        | 50.36          | 54.00          | 3.64        | Vertical     |
| 11650.00                                                                                                                                                                              | 43.05             | 6.49        | 49.54          | 54.00          | 4.46        | Horizontal   |
| <b>Remark:</b><br>3. Level = Reading + Factor.<br>4. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Band 4: 5725 MHz - 5825 MHz, 802.11n-HT20                                                                                                                                             |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Lowest channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5650.00                                                                                                                                                                               | 34.86             | 17.16       | 52.02          | 68.20          | 16.18       | Vertical     |
| 5700.00                                                                                                                                                                               | 36.78             | 17.35       | 54.13          | 105.20         | 51.07       | Vertical     |
| 5720.00                                                                                                                                                                               | 40.31             | 17.46       | 57.77          | 110.80         | 53.03       | Vertical     |
| 5725.00                                                                                                                                                                               | 51.39             | 17.49       | 68.88          | 122.20         | 53.32       | Vertical     |
| 11490.00                                                                                                                                                                              | 50.90             | 6.61        | 57.51          | 74.00          | 16.49       | Vertical     |
| 5650.00                                                                                                                                                                               | 34.61             | 17.16       | 51.77          | 68.20          | 16.43       | Horizontal   |
| 5700.00                                                                                                                                                                               | 34.93             | 17.35       | 52.28          | 105.20         | 52.92       | Horizontal   |
| 5720.00                                                                                                                                                                               | 35.74             | 17.46       | 53.20          | 110.80         | 57.60       | Horizontal   |
| 5725.00                                                                                                                                                                               | 42.69             | 17.49       | 60.18          | 122.20         | 62.02       | Horizontal   |
| 11490.00                                                                                                                                                                              | 50.55             | 6.61        | 57.16          | 74.00          | 16.84       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11490.00                                                                                                                                                                              | 44.30             | 6.61        | 50.91          | 54.00          | 3.09        | Vertical     |
| 11490.00                                                                                                                                                                              | 43.32             | 6.61        | 49.93          | 54.00          | 4.07        | Horizontal   |
| Test channel: Middle channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11570.00                                                                                                                                                                              | 51.31             | 6.28        | 57.59          | 74.00          | 16.41       | Vertical     |
| 11570.00                                                                                                                                                                              | 50.62             | 6.28        | 56.90          | 74.00          | 17.10       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11570.00                                                                                                                                                                              | 44.26             | 6.28        | 50.54          | 54.00          | 3.46        | Vertical     |
| 11570.00                                                                                                                                                                              | 43.27             | 6.28        | 49.55          | 54.00          | 4.45        | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Test channel: Highest channel                                                                                                                                                         |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5850.00                                                                                                                                                                               | 36.4              | 18.01       | 54.41          | 122.20         | 67.79       | Vertical     |
| 5855.00                                                                                                                                                                               | 33.74             | 18.02       | 51.76          | 110.80         | 59.04       | Vertical     |
| 5875.00                                                                                                                                                                               | 34.71             | 18.07       | 52.78          | 105.20         | 52.42       | Vertical     |
| 5925.00                                                                                                                                                                               | 33.70             | 17.95       | 51.65          | 68.20          | 16.55       | Vertical     |
| 11650.00                                                                                                                                                                              | 50.31             | 6.49        | 56.80          | 74.00          | 17.20       | Vertical     |
| 5850.00                                                                                                                                                                               | 34.81             | 18.01       | 52.82          | 122.20         | 69.38       | Horizontal   |
| 5855.00                                                                                                                                                                               | 34.21             | 18.02       | 52.23          | 110.80         | 58.57       | Horizontal   |
| 5875.00                                                                                                                                                                               | 33.82             | 18.07       | 51.89          | 105.20         | 53.31       | Horizontal   |
| 5925.00                                                                                                                                                                               | 33.81             | 17.95       | 51.76          | 68.20          | 16.44       | Horizontal   |
| 11650.00                                                                                                                                                                              | 50.77             | 6.49        | 57.26          | 74.00          | 16.74       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11650.00                                                                                                                                                                              | 44.22             | 6.49        | 50.71          | 54.00          | 3.29        | Vertical     |
| 11650.00                                                                                                                                                                              | 42.72             | 6.49        | 49.21          | 54.00          | 4.79        | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Band 4: 5725 MHz - 5825 MHz, 802.11n-HT40                                                                                                                                             |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Lowest channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5650.00                                                                                                                                                                               | 35.36             | 17.16       | 52.52          | 68.20          | 15.68       | Vertical     |
| 5700.00                                                                                                                                                                               | 35.36             | 17.35       | 52.71          | 105.20         | 52.49       | Vertical     |
| 5720.00                                                                                                                                                                               | 35.10             | 17.46       | 52.56          | 110.80         | 58.24       | Vertical     |
| 5725.00                                                                                                                                                                               | 35.94             | 17.49       | 53.43          | 122.20         | 68.77       | Vertical     |
| 11510.00                                                                                                                                                                              | 50.88             | 6.60        | 57.48          | 74.00          | 16.52       | Vertical     |
| 5650.00                                                                                                                                                                               | 35.01             | 17.16       | 52.17          | 68.20          | 16.03       | Horizontal   |
| 5700.00                                                                                                                                                                               | 35.61             | 17.35       | 52.96          | 105.20         | 52.24       | Horizontal   |
| 5720.00                                                                                                                                                                               | 34.47             | 17.46       | 51.93          | 110.80         | 58.87       | Horizontal   |
| 5725.00                                                                                                                                                                               | 35.67             | 17.49       | 53.16          | 122.20         | 69.04       | Horizontal   |
| 11510.00                                                                                                                                                                              | 50.18             | 6.60        | 56.78          | 74.00          | 17.22       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11510.00                                                                                                                                                                              | 43.86             | 6.60        | 50.46          | 54.00          | 3.54        | Vertical     |
| 11510.00                                                                                                                                                                              | 43.52             | 6.60        | 50.12          | 54.00          | 3.88        | Horizontal   |
| Test channel: Highest channel                                                                                                                                                         |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5850.00                                                                                                                                                                               | 34.57             | 18.01       | 52.58          | 122.20         | 69.62       | Vertical     |
| 5855.00                                                                                                                                                                               | 34.10             | 18.02       | 52.12          | 110.80         | 58.68       | Vertical     |
| 5875.00                                                                                                                                                                               | 34.33             | 18.07       | 52.40          | 105.20         | 52.80       | Vertical     |
| 5925.00                                                                                                                                                                               | 34.13             | 17.95       | 52.08          | 68.20          | 16.12       | Vertical     |
| 11590.00                                                                                                                                                                              | 50.08             | 6.17        | 56.25          | 74.00          | 17.75       | Vertical     |
| 5850.00                                                                                                                                                                               | 34.96             | 18.01       | 52.97          | 122.20         | 69.23       | Horizontal   |
| 5855.00                                                                                                                                                                               | 34.35             | 18.02       | 52.37          | 110.80         | 58.43       | Horizontal   |
| 5875.00                                                                                                                                                                               | 34.94             | 18.07       | 53.01          | 105.20         | 52.19       | Horizontal   |
| 5925.00                                                                                                                                                                               | 34.45             | 17.95       | 52.40          | 68.20          | 15.80       | Horizontal   |
| 11590.00                                                                                                                                                                              | 50.69             | 6.17        | 56.86          | 74.00          | 17.14       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11590.00                                                                                                                                                                              | 44.18             | 6.17        | 50.35          | 54.00          | 3.65        | Vertical     |
| 11590.00                                                                                                                                                                              | 42.43             | 6.17        | 48.60          | 54.00          | 5.40        | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Band 4: 5725 MHz - 5825 MHz, 8802.11ac-VHT20                                                                                                                                          |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Lowest channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5650.00                                                                                                                                                                               | 35.03             | 17.16       | 52.19          | 68.20          | 16.01       | Vertical     |
| 5700.00                                                                                                                                                                               | 36.74             | 17.35       | 54.09          | 105.20         | 51.11       | Vertical     |
| 5720.00                                                                                                                                                                               | 40.19             | 17.46       | 57.65          | 110.80         | 53.15       | Vertical     |
| 5725.00                                                                                                                                                                               | 51.66             | 17.49       | 69.15          | 122.20         | 53.05       | Vertical     |
| 11490.00                                                                                                                                                                              | 50.99             | 6.61        | 57.60          | 74.00          | 16.40       | Vertical     |
| 5650.00                                                                                                                                                                               | 34.40             | 17.16       | 51.56          | 68.20          | 16.64       | Horizontal   |
| 5700.00                                                                                                                                                                               | 34.98             | 17.35       | 52.33          | 105.20         | 52.87       | Horizontal   |
| 5720.00                                                                                                                                                                               | 36.13             | 17.46       | 53.59          | 110.80         | 57.21       | Horizontal   |
| 5725.00                                                                                                                                                                               | 42.60             | 17.49       | 60.09          | 122.20         | 62.11       | Horizontal   |
| 11490.00                                                                                                                                                                              | 50.48             | 6.61        | 57.09          | 74.00          | 16.91       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11490.00                                                                                                                                                                              | 44.55             | 6.61        | 51.16          | 54.00          | 2.84        | Vertical     |
| 11490.00                                                                                                                                                                              | 43.29             | 6.61        | 49.90          | 54.00          | 4.10        | Horizontal   |
| Test channel: Middle channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11570.00                                                                                                                                                                              | 51.12             | 6.28        | 57.40          | 74.00          | 16.60       | Vertical     |
| 11570.00                                                                                                                                                                              | 50.65             | 6.28        | 56.93          | 74.00          | 17.07       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11570.00                                                                                                                                                                              | 43.82             | 6.28        | 50.10          | 54.00          | 3.90        | Vertical     |
| 11570.00                                                                                                                                                                              | 42.82             | 6.28        | 49.10          | 54.00          | 4.90        | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Test channel: Highest channel                                                                                                                                                         |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5850.00                                                                                                                                                                               | 36.83             | 18.01       | 54.84          | 122.20         | 67.36       | Vertical     |
| 5855.00                                                                                                                                                                               | 33.93             | 18.02       | 51.95          | 110.80         | 58.85       | Vertical     |
| 5875.00                                                                                                                                                                               | 35.16             | 18.07       | 53.23          | 105.20         | 51.97       | Vertical     |
| 5925.00                                                                                                                                                                               | 33.31             | 17.95       | 51.26          | 68.20          | 16.94       | Vertical     |
| 11650.00                                                                                                                                                                              | 50.42             | 6.49        | 56.91          | 74.00          | 17.09       | Vertical     |
| 5850.00                                                                                                                                                                               | 34.95             | 18.01       | 52.96          | 122.20         | 69.24       | Horizontal   |
| 5855.00                                                                                                                                                                               | 33.99             | 18.02       | 52.01          | 110.80         | 58.79       | Horizontal   |
| 5875.00                                                                                                                                                                               | 33.93             | 18.07       | 52.00          | 105.20         | 53.20       | Horizontal   |
| 5925.00                                                                                                                                                                               | 34.01             | 17.95       | 51.96          | 68.20          | 16.24       | Horizontal   |
| 11650.00                                                                                                                                                                              | 51.07             | 6.49        | 57.56          | 74.00          | 16.44       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11650.00                                                                                                                                                                              | 43.60             | 6.49        | 50.09          | 54.00          | 3.91        | Vertical     |
| 11650.00                                                                                                                                                                              | 43.22             | 6.49        | 49.71          | 54.00          | 4.29        | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Band 4: 5725 MHz - 5825 MHz, 802.11ac-VHT40                                                                                                                                           |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Lowest channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5650.00                                                                                                                                                                               | 35.74             | 17.16       | 52.90          | 68.20          | 15.30       | Vertical     |
| 5700.00                                                                                                                                                                               | 35.68             | 17.35       | 53.03          | 105.20         | 52.17       | Vertical     |
| 5720.00                                                                                                                                                                               | 35.19             | 17.46       | 52.65          | 110.80         | 58.15       | Vertical     |
| 5725.00                                                                                                                                                                               | 35.63             | 17.49       | 53.12          | 122.20         | 69.08       | Vertical     |
| 11510.00                                                                                                                                                                              | 50.38             | 6.60        | 56.98          | 74.00          | 17.02       | Vertical     |
| 5650.00                                                                                                                                                                               | 35.43             | 17.16       | 52.59          | 68.20          | 15.61       | Horizontal   |
| 5700.00                                                                                                                                                                               | 35.62             | 17.35       | 52.97          | 105.20         | 52.23       | Horizontal   |
| 5720.00                                                                                                                                                                               | 34.68             | 17.46       | 52.14          | 110.80         | 58.66       | Horizontal   |
| 5725.00                                                                                                                                                                               | 35.55             | 17.49       | 53.04          | 122.20         | 69.16       | Horizontal   |
| 11510.00                                                                                                                                                                              | 50.33             | 6.60        | 56.93          | 74.00          | 17.07       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11510.00                                                                                                                                                                              | 43.75             | 6.60        | 50.35          | 54.00          | 3.65        | Vertical     |
| 11510.00                                                                                                                                                                              | 43.61             | 6.60        | 50.21          | 54.00          | 3.79        | Horizontal   |
| Test channel: Highest channel                                                                                                                                                         |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5850.00                                                                                                                                                                               | 34.46             | 18.01       | 52.47          | 122.20         | 69.73       | Vertical     |
| 5855.00                                                                                                                                                                               | 33.74             | 18.02       | 51.76          | 110.80         | 59.04       | Vertical     |
| 5875.00                                                                                                                                                                               | 34.05             | 18.07       | 52.12          | 105.20         | 53.08       | Vertical     |
| 5925.00                                                                                                                                                                               | 34.12             | 17.95       | 52.07          | 68.20          | 16.13       | Vertical     |
| 11590.00                                                                                                                                                                              | 49.71             | 6.17        | 55.88          | 74.00          | 18.12       | Vertical     |
| 5850.00                                                                                                                                                                               | 34.82             | 18.01       | 52.83          | 122.20         | 69.37       | Horizontal   |
| 5855.00                                                                                                                                                                               | 34.20             | 18.02       | 52.22          | 110.80         | 58.58       | Horizontal   |
| 5875.00                                                                                                                                                                               | 34.60             | 18.07       | 52.67          | 105.20         | 52.53       | Horizontal   |
| 5925.00                                                                                                                                                                               | 34.87             | 17.95       | 52.82          | 68.20          | 15.38       | Horizontal   |
| 11590.00                                                                                                                                                                              | 50.90             | 6.17        | 57.07          | 74.00          | 16.93       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11590.00                                                                                                                                                                              | 44.33             | 6.17        | 50.50          | 54.00          | 3.50        | Vertical     |
| 11590.00                                                                                                                                                                              | 42.00             | 6.17        | 48.17          | 54.00          | 5.83        | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

| Band 4: 5725 MHz - 5825 MHz, 802.11ac-VHT80                                                                                                                                           |                   |             |                |                |             |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|----------------|----------------|-------------|--------------|
| Test channel: Lowest channel                                                                                                                                                          |                   |             |                |                |             |              |
| Detector: Peak Value                                                                                                                                                                  |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 5650.00                                                                                                                                                                               | 34.69             | 17.16       | 51.85          | 68.20          | 16.35       | Vertical     |
| 5700.00                                                                                                                                                                               | 35.07             | 17.35       | 52.42          | 105.20         | 52.78       | Vertical     |
| 5720.00                                                                                                                                                                               | 35.23             | 17.46       | 52.69          | 110.80         | 58.11       | Vertical     |
| 5725.00                                                                                                                                                                               | 35.59             | 17.49       | 53.08          | 122.20         | 69.12       | Vertical     |
| 5850.00                                                                                                                                                                               | 34.06             | 18.01       | 52.07          | 122.20         | 70.13       | Vertical     |
| 5855.00                                                                                                                                                                               | 34.49             | 18.02       | 52.51          | 110.80         | 58.29       | Vertical     |
| 5875.00                                                                                                                                                                               | 35.42             | 18.07       | 53.49          | 105.20         | 51.71       | Vertical     |
| 5925.00                                                                                                                                                                               | 35.11             | 17.95       | 53.06          | 68.20          | 15.14       | Vertical     |
| 11550.00                                                                                                                                                                              | 51.19             | 6.39        | 57.58          | 74.00          | 16.42       | Vertical     |
| 5650.00                                                                                                                                                                               | 34.55             | 17.16       | 51.71          | 68.20          | 16.49       | Horizontal   |
| 5700.00                                                                                                                                                                               | 34.93             | 17.35       | 52.28          | 105.20         | 52.92       | Horizontal   |
| 5720.00                                                                                                                                                                               | 34.36             | 17.46       | 51.82          | 110.80         | 58.98       | Horizontal   |
| 5725.00                                                                                                                                                                               | 35.12             | 17.49       | 52.61          | 122.20         | 69.59       | Horizontal   |
| 5850.00                                                                                                                                                                               | 34.41             | 18.01       | 52.42          | 122.20         | 69.78       | Horizontal   |
| 5855.00                                                                                                                                                                               | 34.99             | 18.02       | 53.01          | 110.80         | 57.79       | Horizontal   |
| 5875.00                                                                                                                                                                               | 34.26             | 18.07       | 52.33          | 105.20         | 52.87       | Horizontal   |
| 5925.00                                                                                                                                                                               | 34.88             | 17.95       | 52.83          | 68.20          | 15.37       | Horizontal   |
| 11550.00                                                                                                                                                                              | 50.61             | 6.39        | 57.00          | 74.00          | 17.00       | Horizontal   |
| Detector: Average Value                                                                                                                                                               |                   |             |                |                |             |              |
| Frequency (MHz)                                                                                                                                                                       | Read Level (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
| 11550.00                                                                                                                                                                              | 43.49             | 6.39        | 49.88          | 54.00          | 4.12        | Vertical     |
| 11550.00                                                                                                                                                                              | 43.38             | 6.39        | 49.77          | 54.00          | 4.23        | Horizontal   |
| <b>Remark:</b><br>1. Level = Reading + Factor.<br>2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report. |                   |             |                |                |             |              |

-----End of report-----