



## RF MEASUREMENT REPORT

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**FCC ID:** DD4ULXD8G50  
**Applicant:** Shure Incorporated  
**Product:** Wireless Gooseneck Transmitter  
**Model No.:** ULXD8 G50, ULXD8W G50  
**Brand Name:** , **SHURE**<sup>®</sup>  
**FCC Classification:** Part 15 Wireless Microphone (DWM)  
**FCC Rule Part(s):** Part 15 Subpart C (Section 15.236)  
**Result:** Complies  
**Received Date:** 2024-07-05  
**Test Date:** 2024-07-23 ~ 2024-07-29

**Reviewed By:**

\_\_\_\_\_  
Jame Yuan

**Approved By:**

\_\_\_\_\_  
Robin Wu



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

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### Revision History

| Report No.    | Version | Description    | Issue Date | Note  |
|---------------|---------|----------------|------------|-------|
| 2407RSU018-U1 | V01     | Initial Report | 2024-08-17 | Valid |
|               |         |                |            |       |

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## 1. General Information

### 1.1. Applicant

Shure Incorporated

5800 West Touhy Avenue, Niles, IL 60714-4608, USA

## 1.2. Manufacturer

Shure Incorporated

5800 West Touhy Avenue, Niles, IL 60714-4608, USA

### 1.3. Testing Facility

|                                     |                                                                                                 |                                  |                                  |                                  |
|-------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------|----------------------------------|
| <input checked="" type="checkbox"/> | <b>Test Site – MRT Suzhou Laboratory</b>                                                        |                                  |                                  |                                  |
|                                     | <b>Laboratory Location (Suzhou - Wuzhong)</b>                                                   |                                  |                                  |                                  |
|                                     | D8 Building, No.2 Tian’edang Rd., Wuzhong Economic Development Zone, Suzhou, China              |                                  |                                  |                                  |
|                                     | <b>Laboratory Location (Suzhou - SIP)</b>                                                       |                                  |                                  |                                  |
|                                     | 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China    |                                  |                                  |                                  |
|                                     | <b>Laboratory Location (Suzhou - Wujiang)</b>                                                   |                                  |                                  |                                  |
|                                     | Building 1, No.1 Xingdong Road, Wujiang, Suzhou, Jiangsu, People’s Republic of China            |                                  |                                  |                                  |
| <input type="checkbox"/>            | <b>Laboratory Accreditations</b>                                                                |                                  |                                  |                                  |
|                                     | A2LA: 3628.01                                                                                   |                                  | CNAS: L10551                     |                                  |
|                                     | FCC: CN1166                                                                                     |                                  | ISED: CN0001                     |                                  |
|                                     | <input type="checkbox"/> R-20025                                                                | <input type="checkbox"/> G-20034 | <input type="checkbox"/> C-20020 | <input type="checkbox"/> T-20020 |
|                                     | VCCI:                                                                                           | <input type="checkbox"/> R-20141 | <input type="checkbox"/> G-20134 | <input type="checkbox"/> C-20103 |
|                                     |                                                                                                 |                                  | <input type="checkbox"/> T-20104 |                                  |
|                                     |                                                                                                 |                                  |                                  |                                  |
| <input type="checkbox"/>            | <b>Test Site – MRT Shenzhen Laboratory</b>                                                      |                                  |                                  |                                  |
|                                     | <b>Laboratory Location (Shenzhen)</b>                                                           |                                  |                                  |                                  |
|                                     | 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China |                                  |                                  |                                  |
|                                     | <b>Laboratory Accreditations</b>                                                                |                                  |                                  |                                  |
|                                     | A2LA: 3628.02                                                                                   |                                  | CNAS: L10551                     |                                  |
| FCC: CN1284                         |                                                                                                 | ISED: CN0105                     |                                  |                                  |
| <input type="checkbox"/>            | <b>Test Site – MRT Taiwan Laboratory</b>                                                        |                                  |                                  |                                  |
|                                     | <b>Laboratory Location (Taiwan)</b>                                                             |                                  |                                  |                                  |
|                                     | No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)                        |                                  |                                  |                                  |
|                                     | <b>Laboratory Accreditations</b>                                                                |                                  |                                  |                                  |
| TAF: 3261                           |                                                                                                 |                                  |                                  |                                  |
| FCC: 291082, TW3261                 |                                                                                                 | ISED: TW3261                     |                                  |                                  |

#### 1.4. Product Information

|                       |                                |
|-----------------------|--------------------------------|
| Product Name          | Wireless Gooseneck Transmitter |
| Model No.             | ULXD8 G50, ULXD8W G50          |
| Serial No.            | 328A33525                      |
| Frequency Range       | 470 ~ 534 MHz                  |
| Power Type            | By Battery                     |
| Operating Temperature | -10 ~ 45°C                     |

Note 1: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.

Note 2: The difference between ULXD8 and ULXD8W is that ULXD8 enclose color is black and ULXD8W enclose color is white.

Note 3: The EUT has two working modes (STD Mode & HD Mode) and two modes can be switched from the digital wireless receiver.

#### 1.5. Radio Specification under Test

|                      |                   |
|----------------------|-------------------|
| Frequency Range      | 470 ~ 534 MHz     |
| Declared Power Level | 1mW & 10mW & 20mW |
| Type of Modulation   | 4FSK              |
| Channel Spacing      | 25kHz             |
| Antenna Type         | PIFA              |
| Antenna Gain         | -8.40 dBi         |

Note: Power level and transmit frequency can be selected using the front panel controls.

#### 1.6. Working Frequencies

| Bottom Channel<br>(MHz) | Middle Channel<br>(MHz) | Top Channel<br>(MHz) |
|-------------------------|-------------------------|----------------------|
| 470.125                 | 502.000                 | 534.000              |

## 2. Test Configuration

### 2.1. Test Mode

|                                                 |
|-------------------------------------------------|
| Mode 1: Transmit at G50 Band by STD Mode (20mW) |
|-------------------------------------------------|

### 2.2. Test Software

The test utility software used during testing was “teraterm”, and the version was V4.103, all test commands were provided by the manufacturer.

### 2.3. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15.236
- KDB 206256 D01v02r01
- ANSI C63.10-2013
- ETSI EN 300 422 - 1 V 1.4.2

### 2.4. Test Environment Condition

|                     |            |
|---------------------|------------|
| Ambient Temperature | 15 ~ 35°C  |
| Relative Humidity   | 20 ~ 75%RH |

### 3. Measuring Instrument

| Instrument          | Manufacturer | Model No.  | Asset No.   | Cali. Interval | Cali. Due Date | Test Site      |
|---------------------|--------------|------------|-------------|----------------|----------------|----------------|
| USB Power Sensor    | Keysight     | U2021XA    | MRTSUE06447 | 1 year         | 2025-05-08     | WZ-SR5         |
| Thermohygrometer    | testo        | 608-H1     | MRTSUE06402 | 1 year         | 2025-05-12     | WZ-SR5         |
| Shielding Room      | HUAMING      | WZ-SR5     | MRTSUE06442 | N/A            | N/A            | WZ-SR5         |
| Signal Analyzer     | Keysight     | N9010B     | MRTSUE06457 | 1 year         | 2025-05-08     | WZ-SR5/ WZ-TR3 |
| Temperature Chamber | BAOYT        | BYH-150CL  | MRTSUE06051 | 1 year         | 2024-09-27     | WZ-TR3         |
| Thermohygrometer    | testo        | 608-H1     | MRTSUE11268 | 1 year         | 2024-12-14     | WZ-TR3         |
| Horn Antenna        | Schwarzbeck  | BBHA 9120D | MRTSUE06023 | 1 year         | 2024-08-09     | WZ-AC1         |
| Preamplifier        | Agilent      | 83017A     | MRTSUE06076 | 1 year         | 2024-11-09     | WZ-AC1         |
| TRILOG Antenna      | Schwarzbeck  | VULB 9168  | MRTSUE06172 | 1 year         | 2025-05-15     | WZ-AC1         |
| Anechoic Chamber    | TDK          | WZ-AC1     | MRTSUE06212 | 1 year         | 2025-04-19     | WZ-AC1         |
| Signal Analyzer     | Keysight     | N9010B     | MRTSUE06607 | 1 year         | 2024-10-23     | WZ-AC1         |
| Thermohygrometer    | testo        | 608-H1     | MRTSUE11039 | 1 year         | 2024-10-25     | WZ-AC1         |

| Software             | Version | Function               |
|----------------------|---------|------------------------|
| e3                   | 19910a  | RE & CE                |
| Controller_MF 7802   | 2.03C   | RE Antenna & Turntable |
| BenchVue Power Meter | 2018.1  | Power                  |

## 4. Decision Rules and Measurement Uncertainty

### 4.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2.

(Measurement uncertainty is not taken into account when stating conformity with a specified requirement.

### 4.2. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

|                                                                         |                      |
|-------------------------------------------------------------------------|----------------------|
| <b>AC Conducted Emission Measurement</b>                                |                      |
| The maximum measurement uncertainty is evaluated as:                    |                      |
| 9kHz~150kHz: 3.58dB                                                     |                      |
| 150kHz~30MHz: 3.20dB                                                    |                      |
| <b>Radiated Emission Measurement</b>                                    |                      |
| The maximum measurement uncertainty is evaluated as:                    |                      |
| Coaxial:                                                                | 9kHz~30MHz: 2.61dB   |
| Coplanar:                                                               | 9kHz~30MHz: 2.62dB   |
| Horizontal:                                                             | 30MHz~200MHz: 3.79dB |
|                                                                         | 200MHz~1GHz: 3.91dB  |
|                                                                         | 1GHz~40GHz: 4.99dB   |
| Vertical:                                                               | 30MHz~200MHz: 4.06dB |
|                                                                         | 200MHz~1GHz: 5.21dB  |
|                                                                         | 1GHz~40GHz: 4.90dB   |
| <b>Spurious Emissions, Conducted</b>                                    |                      |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_c(y)$ ): |                      |
| 2.2dB                                                                   |                      |
| <b>Output Power</b>                                                     |                      |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_c(y)$ ): |                      |
| 1.4dB                                                                   |                      |
| <b>Occupied Bandwidth</b>                                               |                      |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_c(y)$ ): |                      |
| 2.7%                                                                    |                      |

## 5. Test Result

### 5.1. Summary

| FCC Part Section(s) | Test Description                         | Test Condition | Test Result |
|---------------------|------------------------------------------|----------------|-------------|
| 15.236(f)(2)        | Occupied Bandwidth                       | Conducted      | Pass        |
| 15.236(f)(3)        | Frequency Tolerance                      |                | Pass        |
| 15.236(g)           | Necessary Bandwidth                      |                | Pass        |
| 15.236(d)(1)        | RF Output Power                          |                | Pass        |
| 15.236(g)           | Radiated Spurious Emission               | Radiated       | Pass        |
| 15.207              | AC Conducted Emissions<br>150kHz - 30MHz | Line Conducted | N/A         |

#### Notes:

- 1) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 2) "N/A" means that this item is not applicable, and the detail information refer to relevant section.

## 5.2. 99% Occupied Bandwidth Measurement

### 5.2.1. Test Limit

The operating bandwidth shall not exceed 200 kHz.

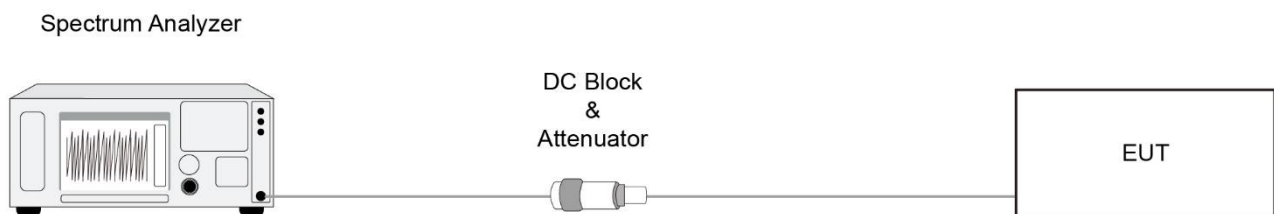
### 5.2.2. Test Procedure

ANSI C63.10-2013 - Section 6.9.3

### 5.2.3. Test Setting

1. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
2. Set RBW  $\geq$  1% to 5% of the OBW
3. VBW = Approximately three times RBW
4. Detector = Peak
5. Trace mode = Max hold
6. Sweep = Auto couple
7. Allow the trace to stabilize
8. Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

### 5.2.4. Test Setup



### 5.2.5. Test Result

Refer to Appendix A.1.

### **5.3. Frequency Tolerance Measurement**

#### **5.3.1. Test Limit**

The frequency tolerance of the carrier signal shall be maintained within  $\pm 0.005\%$  of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. Battery operated equipment shall be tested using a new battery.

#### **5.3.2. Test Procedure**

ANSI C63.10-2013 - Section 6.8

#### **5.3.3. Test Setting**

The EUT was programmed to transmit with an unmodulated carrier.

##### **Frequency Stability Under Temperature Variations:**

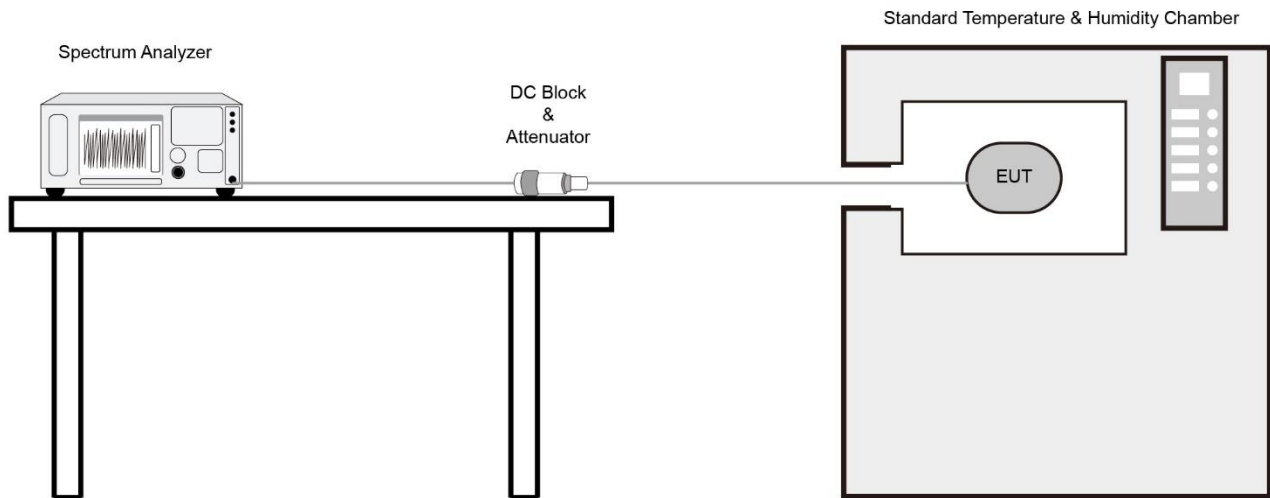
The equipment under test was connected to an external DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. While maintaining a constant temperature inside the environmental chamber, turn the EUT on and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

##### **Frequency Stability Under Voltage Variations:**

Set chamber temperature to 20°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ( $\pm 15\%$ ) and endpoint, record the maximum frequency change.

#### 5.3.4. Test Setup



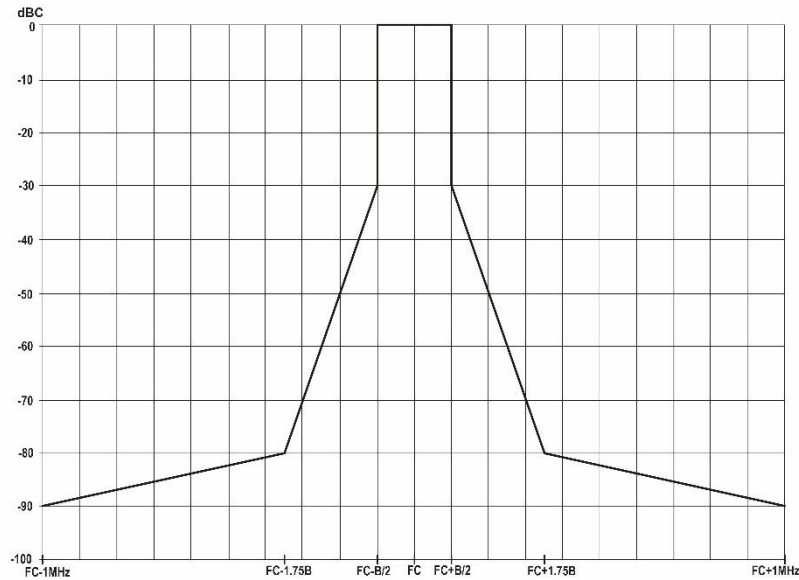
#### 5.3.5. Test Result

Refer to Appendix A.2.

## 5.4. Necessary Bandwidth Measurement

### 5.4.1. Test Limit

According to EN 300 422-1 V1.4.2 clause 8.3.2.2, the transmitter output spectrum shall be within the mask defined as below figure.



### 5.4.2. Test Procedure

ETSI EN 300 422-1 V1.4.2 clause 8.3.2.1.

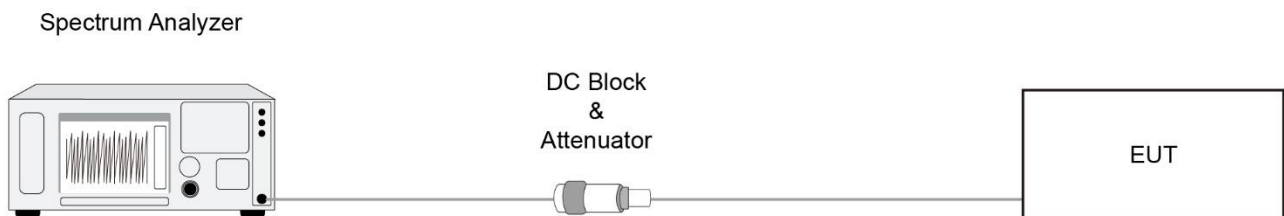
### 5.4.3. Test Setting

The EUT was powered up and the transmit frequency & power output of the EUT were selected.

The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.

Only bottom and top channel is required, at an output power level of 2mW & 10mW & 35mW.

### 5.4.4. Test Setup



### 5.4.5. Test Result

Refer to Appendix A.3.

## 5.5. Output Power Measurement

### 5.5.1. Test Limit

In the bands allocated and assigned for broadcast television and in the 600 MHz service band: 50 mW EIRP.

In the 600 MHz guard band and the 600 MHz duplex gap: 20 mW EIRP.

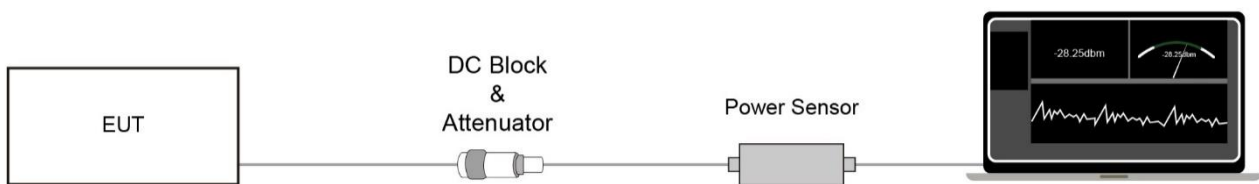
### 5.5.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.9.2.3.2

### 5.5.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

### 5.5.4. Test Setup



### 5.5.5. Test Result

Refer to Appendix A.4.

## 5.6. Radiated Spurious Emission Measurement

### 5.6.1. Test Limit

According to FCC Part 15.236(g), emissions outside of this band shall comply with the limits specified in section 8.4.3 of ETSI EN 300 422-1 V1.4.2.

| State     | Frequency Range                                                         |                                    |                              |
|-----------|-------------------------------------------------------------------------|------------------------------------|------------------------------|
|           | 47MHz to 74MHz, 87.5MHz to 137MHz<br>174MHz to 230MHz, 470MHz to 862MHz | Other Frequencies<br>below 1000MHz | Frequencies above<br>1000MHz |
| Operation | 4nW                                                                     | 250nW                              | 1uW                          |
| Standby   | 2nW                                                                     | 2nW                                | 20nW                         |

### 5.6.2. Test Procedure

ETSI EN 300 422-1 V1.4.2 clause 8.4.2.

### 5.6.3. Test Setting

**Table 1 - RBW as a function of frequency**

| Frequency       | RBW     |
|-----------------|---------|
| 25 ~ 30 MHz     | 9 kHz   |
| 30 ~ 1000 MHz   | 100 kHz |
| 1000 ~ 6000 MHz | 1 MHz   |

Emissions shall be investigated up to the 10<sup>th</sup> harmonic of the fundamental.

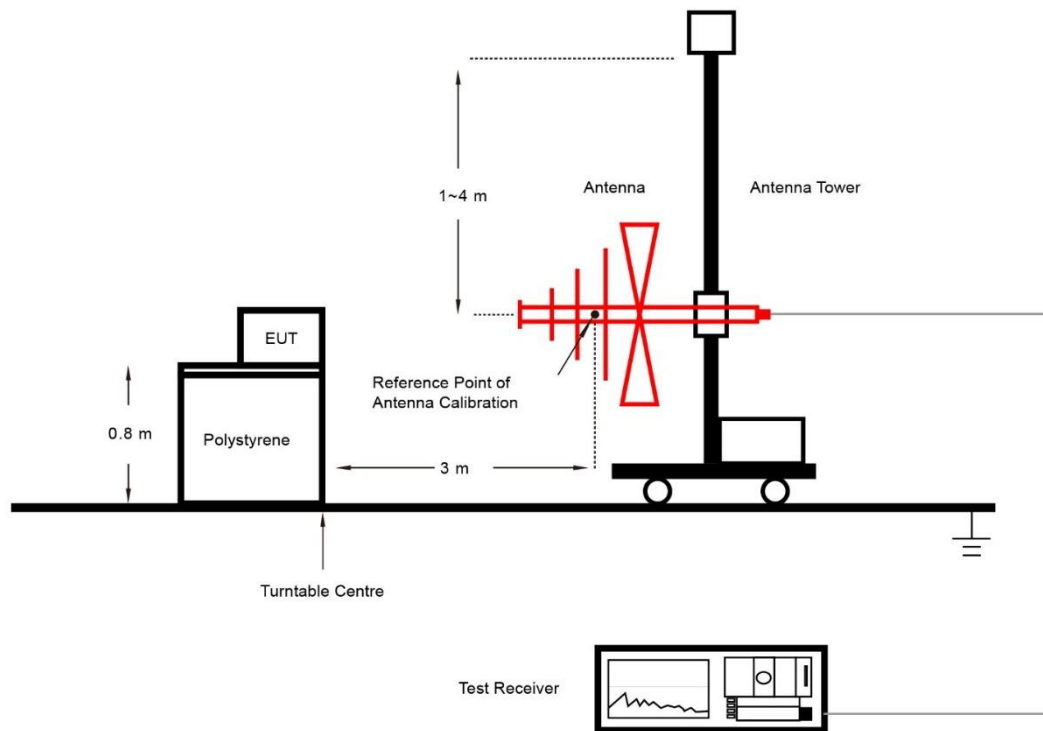
All the emissions shall be demonstrated using a QP detector below 1 GHz and an RMS Average detector above 1 GHz.

All significant broadband and narrowband signals found in the preliminary sweeps were measured using a peak detector at a test distance of 3 meters.

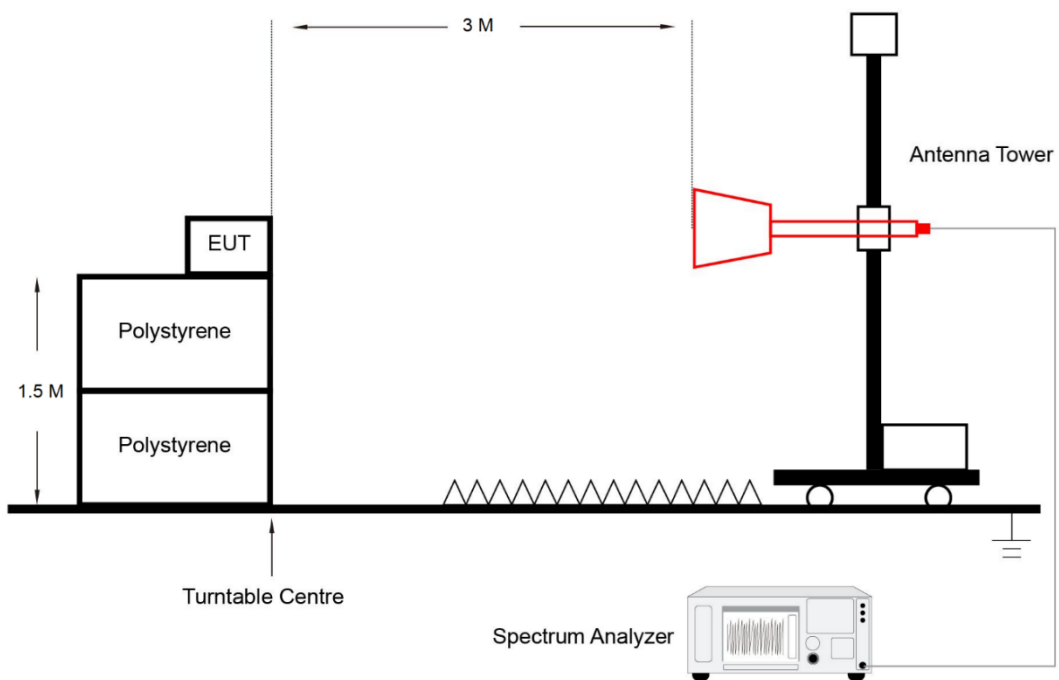
at each frequency at which a component is detected, the sample shall be rotated to obtain maximum response and the effective radiated power of that component determined by a substitution measurement.

#### 5.6.4. Test Setup

##### Below 1GHz Test Setup:



##### Above 1GHz Test Setup:



#### **5.6.5. Test Result**

Refer to Appendix A.5.

## 5.7. AC Conducted Emissions Measurement

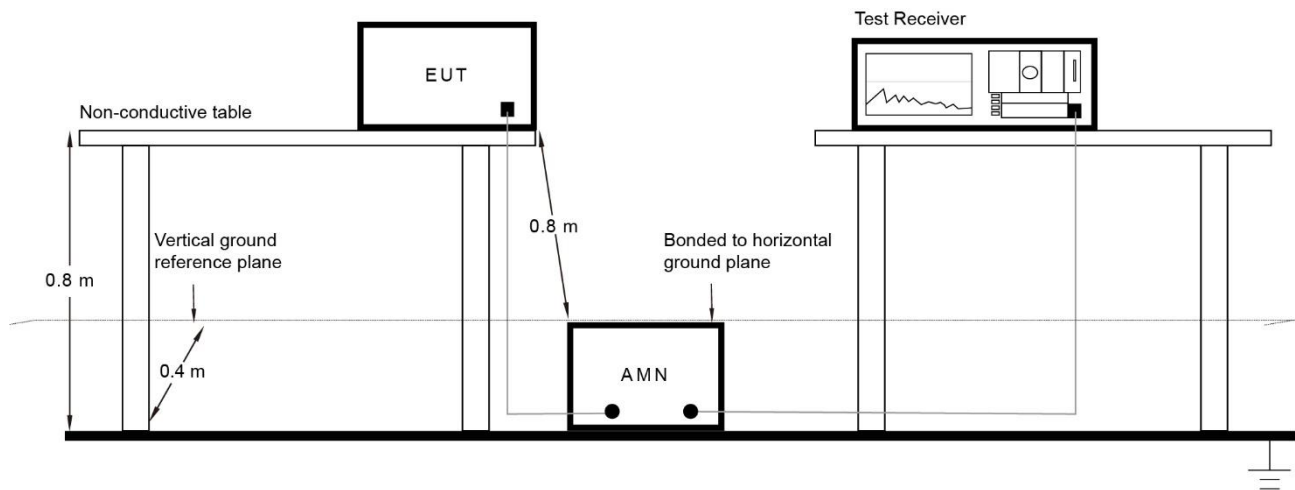
### 5.7.1. Test Limit

| FCC Part 15 Subpart C Paragraph 15.207 Limits |                 |                      |
|-----------------------------------------------|-----------------|----------------------|
| Frequency (MHz)                               | QP (dB $\mu$ V) | Average (dB $\mu$ V) |
| 0.15 - 0.50                                   | 66 - 56         | 56 - 46              |
| 0.50 - 5.0                                    | 56              | 46                   |
| 5.0 - 30                                      | 60              | 50                   |

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

### 5.7.2. Test Setup



### 5.7.3. Test Result

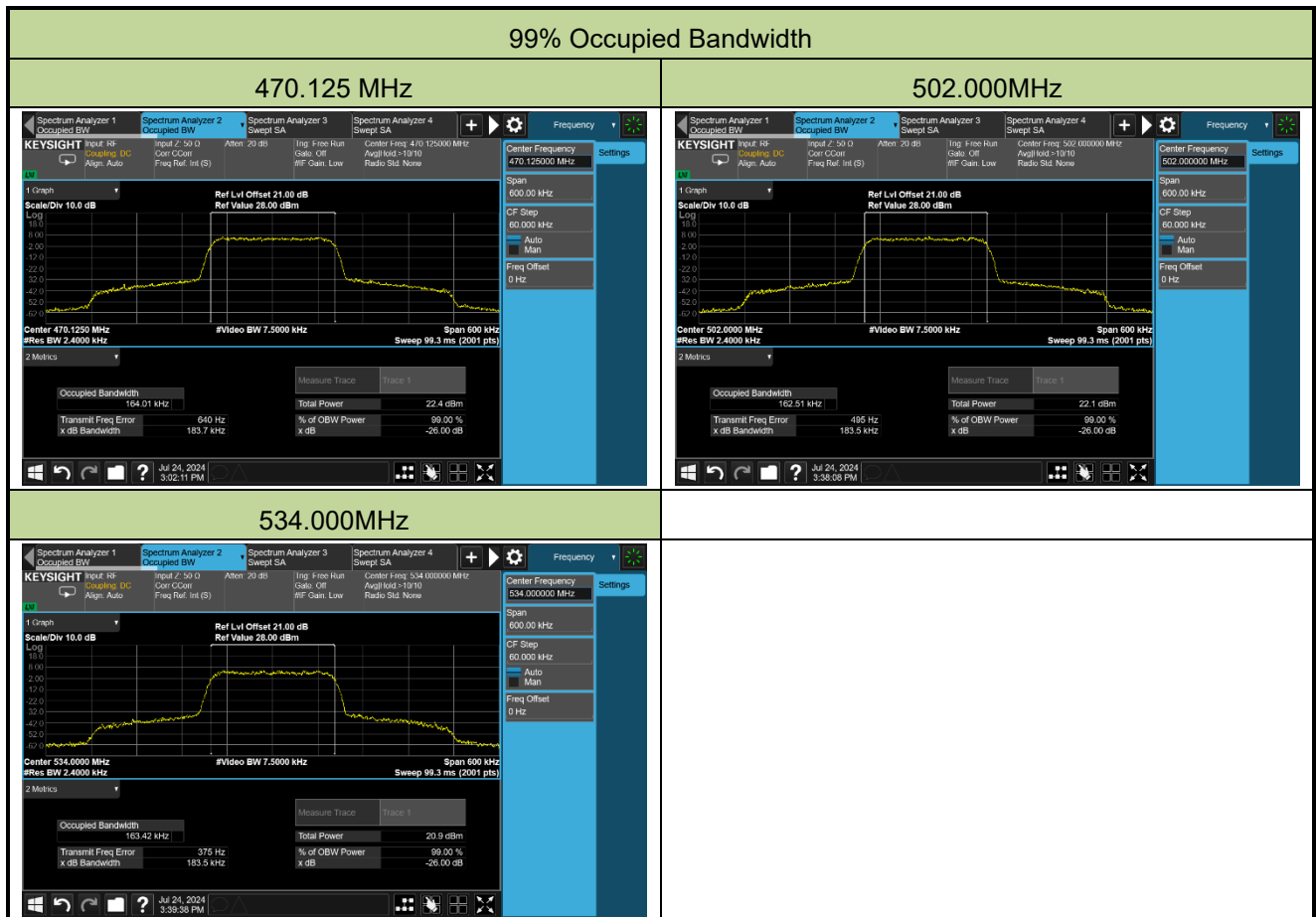
Refer to Appendix A.6.

## Appendix A – Test Result

### A.1 99% Occupied Bandwidth Test Result

|           |            |               |           |
|-----------|------------|---------------|-----------|
| Test Site | WZ-SR5     | Test Engineer | Lynn Yang |
| Test Date | 2024-07-24 |               |           |

| Mode          | Frequency (MHz) | 99% Bandwidth (kHz) | Limit (kHz) | Result |
|---------------|-----------------|---------------------|-------------|--------|
| STD<br>(20mW) | 470.125         | 164.01              | < 200       | Pass   |
|               | 502.000         | 162.51              | < 200       | Pass   |
|               | 534.000         | 163.42              | < 200       | Pass   |



## A.2 Frequency Tolerance Test Result

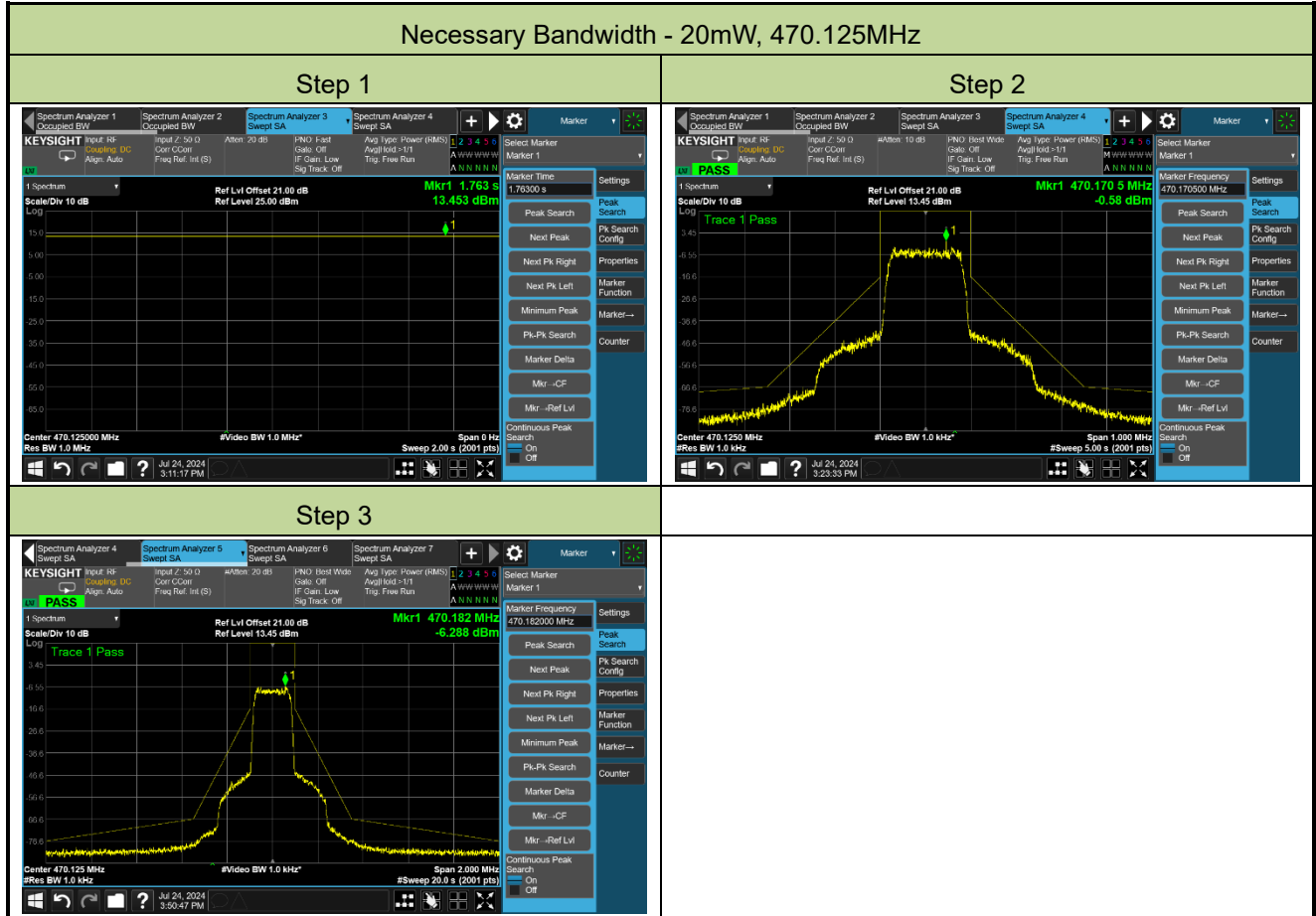
|           |                       |               |            |
|-----------|-----------------------|---------------|------------|
| Test Site | WZ-TR3                | Test Engineer | Lynn Yang  |
| Test Date | 2024-07-25~2024-07-26 | Test Mode     | 470.125MHz |

| Voltage (%) | Power (DC) | Temp (°C) | Frequency Tolerance (ppm) |           |           |            |
|-------------|------------|-----------|---------------------------|-----------|-----------|------------|
|             |            |           | 0 minutes                 | 2 minutes | 5 minutes | 10 minutes |
| 100         | 3.6        | - 10      | 0.000103                  | 0.000102  | 0.000101  | 0.000100   |
|             |            | 0         | 0.000101                  | 0.000101  | 0.000102  | 0.000102   |
|             |            | + 10      | 0.000094                  | 0.000094  | 0.000094  | 0.000094   |
|             |            | + 20      | 0.000039                  | 0.000039  | 0.000039  | 0.000040   |
|             |            | + 30      | 0.000040                  | 0.000040  | 0.000040  | 0.000039   |
|             |            | + 40      | 0.000050                  | 0.000051  | 0.000052  | 0.000052   |
|             |            | + 50      | 0.000050                  | 0.000050  | 0.000050  | 0.000050   |
| 115         | 4.14       | + 20      | 0.000041                  | 0.000040  | 0.000040  | 0.000039   |
| 85          | 3.06       | + 20      | 0.000040                  | 0.000040  | 0.000040  | 0.000040   |

Note: Frequency Tolerance (ppm) = {[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)} \*10<sup>2</sup>.

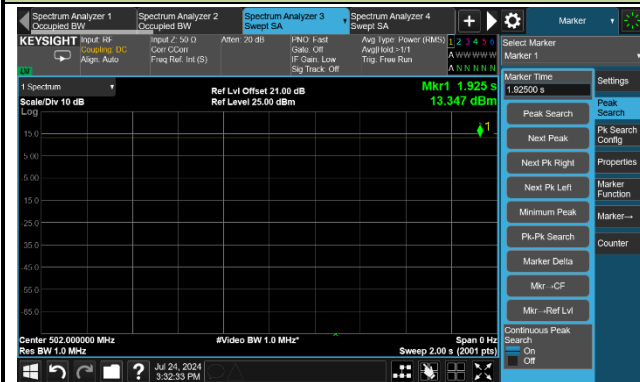
### A.3 Necessary Bandwidth Test Result

|           |            |               |           |
|-----------|------------|---------------|-----------|
| Test Site | WZ-SR5     | Test Engineer | Lynn Yang |
| Test Date | 2024-07-24 |               |           |

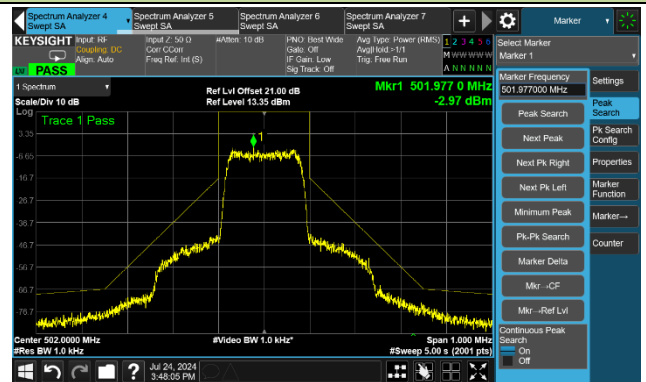


## Necessary Bandwidth - 20mW, 502.000MHz

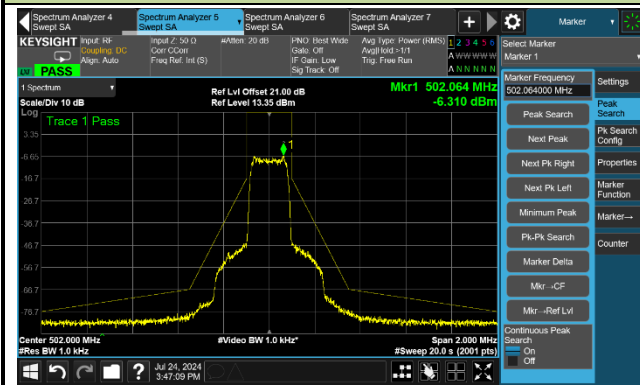
### Step 1



### Step 2

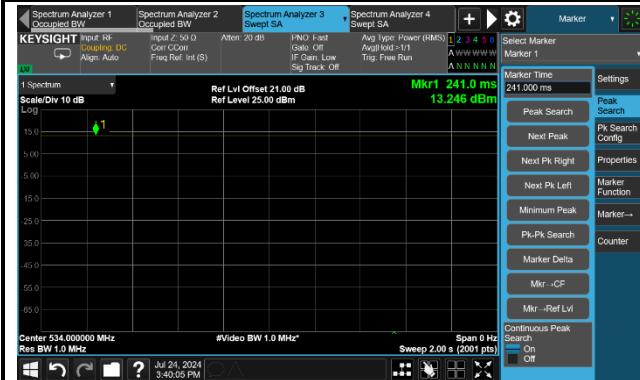


### Step 3

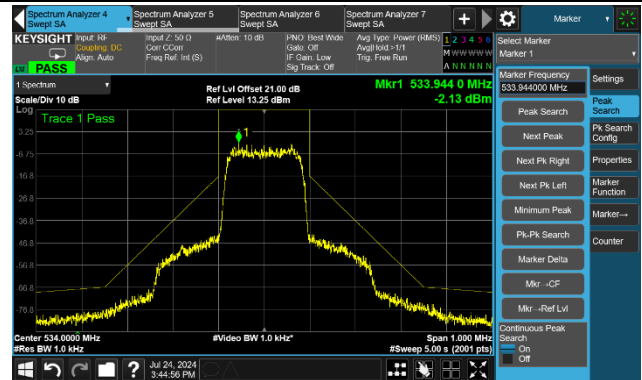


## Necessary Bandwidth - 20mW, 534.000MHz

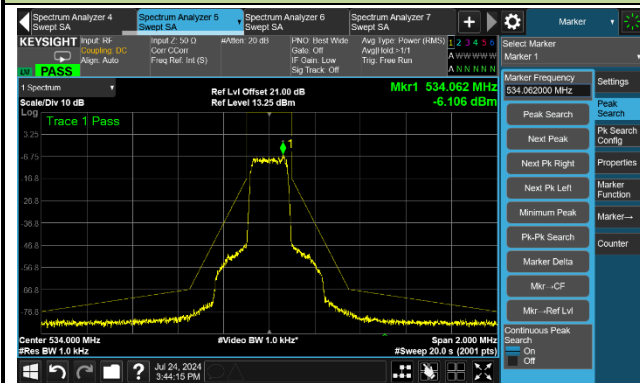
### Step 1



### Step 2



### Step 3



#### A.4 Output Power Test Result

|           |            |               |           |
|-----------|------------|---------------|-----------|
| Test Site | WZ-SR5     | Test Engineer | Lynn Yang |
| Test Date | 2024-07-23 |               |           |

| Frequency<br>(MHz) | Conducted Power<br>(dBm) | Antenna Gain<br>(dBi) | EIRP<br>(dBm) | Limit<br>(dBm) | Test Result |
|--------------------|--------------------------|-----------------------|---------------|----------------|-------------|
| STD Mode (20mW)    |                          |                       |               |                |             |
| 470.125            | 12.98                    | -8.40                 | 5.03          | 16.99          | Pass        |
| 502.000            | 13.01                    | -8.40                 | 5.07          | 16.99          | Pass        |
| 534.000            | 12.88                    | -8.40                 | 4.94          | 16.99          | Pass        |

Note 1: Limit =  $10 \cdot \log(50\text{mW}) = 16.99 \text{ dBm}$ .

Note 2: EIRP (dBm) = Conducted Power dBm) + Antenna Gain (dBi).

### A.5 Radiated Spurious Emission Test Result

|           |                         |               |           |
|-----------|-------------------------|---------------|-----------|
| Test Site | WZ-AC1                  | Test Engineer | Frank Xue |
| Test Date | 2024-07-26 ~ 2024-07-28 |               |           |

| Test Channel (MHz) | Frequency (MHz) | Reading Level (dBm) | Substitution Factor (dB) | Measure Level (dBm) | Limit (dBm) | Margin (dB) | Detector | Polarization |
|--------------------|-----------------|---------------------|--------------------------|---------------------|-------------|-------------|----------|--------------|
| 470.125            | 185.723         | -105.9              | 28.6                     | -77.3               | -54.0       | -23.3       | Peak     | Horizontal   |
|                    | 703.979         | -103.0              | 36.0                     | -67.0               | -54.0       | -13.0       | Peak     | Horizontal   |
|                    | 116.091         | -105.7              | 30.3                     | -75.4               | -54.0       | -21.4       | Peak     | Vertical     |
|                    | 833.609         | -104.7              | 38.0                     | -66.7               | -54.0       | -12.7       | Peak     | Vertical     |
|                    | 1413.640        | -53.2               | 4.5                      | -48.7               | -30.0       | -18.7       | Peak     | Horizontal   |
|                    | 4870.510        | -67.9               | 15.9                     | -52.0               | -30.0       | -22.0       | Peak     | Horizontal   |
|                    | 1413.387        | -50.1               | 4.9                      | -45.2               | -30.0       | -15.2       | Peak     | Vertical     |
|                    | 4186.207        | -66.5               | 14.6                     | -51.9               | -30.0       | -21.9       | Peak     | Vertical     |
| 502.000            | 230.099         | -104.1              | 29.0                     | -75.1               | -36.0       | -39.1       | Peak     | Horizontal   |
|                    | 719.200         | -103.1              | 37.4                     | -65.7               | -54.0       | -11.7       | Peak     | Horizontal   |
|                    | 104.316         | -106.2              | 29.9                     | -76.3               | -54.0       | -22.3       | Peak     | Vertical     |
|                    | 726.296         | -103.0              | 36.1                     | -66.9               | -54.0       | -12.9       | Peak     | Vertical     |
|                    | 1506.209        | -57.0               | 5.4                      | -51.6               | -30.0       | -21.6       | Peak     | Horizontal   |
|                    | 4026.566        | -67.2               | 14.1                     | -53.1               | -30.0       | -23.1       | Peak     | Horizontal   |
|                    | 1505.940        | -53.7               | 5.4                      | -48.3               | -30.0       | -18.3       | Peak     | Vertical     |
|                    | 5508.501        | -68.8               | 18.4                     | -50.4               | -30.0       | -20.4       | Peak     | Vertical     |
| 534.000            | 58.695          | -106.3              | 25.5                     | -80.8               | -54.0       | -26.8       | Peak     | Horizontal   |
|                    | 719.957         | -104.1              | 37.7                     | -66.4               | -54.0       | -12.4       | Peak     | Horizontal   |
|                    | 105.272         | -106.2              | 29.8                     | -76.4               | -54.0       | -22.4       | Peak     | Vertical     |
|                    | 786.195         | -104.0              | 36.8                     | -67.2               | -54.0       | -13.2       | Peak     | Vertical     |
|                    | 1601.968        | -58.4               | 4.6                      | -53.8               | -30.0       | -23.8       | Peak     | Horizontal   |
|                    | 4184.707        | -68.0               | 14.5                     | -53.5               | -30.0       | -23.5       | Peak     | Horizontal   |
|                    | 1602.255        | -56.0               | 5.6                      | -50.4               | -30.0       | -20.4       | Peak     | Vertical     |
|                    | 5170.883        | -68.0               | 17.3                     | -50.7               | -30.0       | -20.7       | Peak     | Vertical     |

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB)

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) - Antenna Gain (dBi) - 2.15 (dB)

Note 3: QP measurement was not performed when peak measure level was lower than the QP limit.

RMS measurement was not performed when peak measure level was lower than the RMS limit.

**A.6 AC Conducted Emissions Test Result**

The EUT is powered by battery, so this item is not applicable.

## **Appendix B - Test Setup Photograph**

Refer to “2407RSU018-UT” file.

## **Appendix C - EUT Photograph**

Refer to “2407RSU018-UE” file.