

# FCC TEST REPORT

For

Wyze Labs, Inc.

WYZE Sense Hub

Test Model: WSHB1

Prepared for : Wyze Labs, Inc.  
Address : 5808 Lake Washington Blvd NE Ste 300, Kirkland, Washington  
98033, United States

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.  
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Date of receipt of test sample : January 26, 2021  
Number of tested samples : 1  
Serial number : Prototype  
Date of Test : January 26, 2021 ~ March 22, 2021  
Date of Report : March 22, 2021

## FCC TEST REPORT FCC CFR 47 PART 15 C(15.249)

**Report Reference No.** ..... : **LCS210126014AEC**

**Date of Issue** ..... : March 22, 2021

**Testing Laboratory Name**..... : **Shenzhen LCS Compliance Testing Laboratory Ltd.**

**Address** ..... : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing Street,  
Baoan District, Shenzhen, China

**Testing Location/ Procedure** ..... : Full application of Harmonised standards   
Partial application of Harmonised standards   
Other standard testing method

**Applicant's Name**..... : **Wyze Labs, Inc.**

**Address** ..... : 5808 Lake Washington Blvd NE Ste 300, Kirkland, Washington  
98033, United States

### Test Specification

**Standard**..... : FCC CFR 47 PART 15 C(15.249) / ANSI C63.10: 2013

**Test Report Form No.** ..... : LCSEMC-1.0

**TRF Originator** ..... : Shenzhen LCS Compliance Testing Laboratory Ltd.

**Master TRF** ..... : Dated 2011-03

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**EUT Description.** ..... : **WYZE Sense Hub**

**Trade Mark**..... : WYZE

**Test Model**..... : WSHB1

DC 5V/1A

**Ratings** ..... : Adapter parameters: Input: AC 100-240V 50/60Hz 0.25A

Output: DC 5V/1A

**Result** ..... : **Positive**

**Compiled by:**

*Lh Li*

**Supervised by:**

*Jin Wang*

**Approved by:**

*Gavin Liang*

Lh Li/ Administrators

Jin Wang/ Technique principal

Gavin Liang/ Manager

### FCC -- TEST REPORT

|  |  |
|--|--|
| <b>Test Report No. :</b> LCS210126014AEC | <u>March 22, 2021</u><br>Date of issue |
|--|--|

|                          |  |
|--------------------------|--|
| Test Model.....          | : WSHB1  |
| EUT.....                 | : WYZE Sense Hub   |
| <b>Applicant.....</b>    | <b>: Wyze Labs, Inc.</b>   |
| Address.....             | : 5808 Lake Washington Blvd NE Ste 300, Kirkland, Washington<br>98033, United States                   |
| Telephone.....           | : /  |
| Fax.....                 | : /  |
| <b>Manufacturer.....</b> | <b>: TianJin HuaLai Technology Co., Ltd.</b>   |
| Address.....             | : 8/F, Huaqiao Chuangye building, No. 10, Jinping Road, Ya'an<br>Road, Nankai District, Tianjin, China |
| Telephone.....           | : /  |
| Fax.....                 | : /  |
| <b>Factory.....</b>      | <b>: TianJin HuaLai Technology Co., Ltd.</b>   |
| Address.....             | : 8/F, Huaqiao Chuangye building, No. 10, Jinping Road, Ya'an<br>Road, Nankai District, Tianjin, China |
| Telephone.....           | : /  |
| Fax.....                 | : /  |

|                    |                 |
|--------------------|-----------------|
| <b>Test Result</b> | <b>Positive</b> |
|--------------------|-----------------|

The test report merely corresponds to the test sample.  
 It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

### Revision History

| Revision | Issue Date     | Revisions     | Revised By  |
|----------|----------------|---------------|-------------|
| 000      | March 22, 2021 | Initial Issue | Gavin Liang |
|          |                |               |             |
|          |                |               |             |

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## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

|                  |  |
|------------------|--|
| EUT              | : WYZE Sense Hub                                       |
| Test Model       | : WSHB1  |
| Model Number     | : WSHB1  |
| Hardware Version | : GW3U-P1.0-V1.8                                       |
| Software Version | : 4.32.2.62  |
|                  | DC 5V/1A   |
| Power Supply     | : Adapter parameters: Input: AC 100-240V 50/60Hz 0.25A |
|                  | Output: DC 5V/1A                                       |

#### Bluetooth

|                               |                             |
|-------------------------------|-----------------------------|
| Bluetooth Operation frequency | : 2402MHz-2480MHz           |
| Bluetooth Version             | : 5.0                       |
| Bluetooth Channel Number      | : 40 Channels               |
| Bluetooth Channel Spacing     | : 2MHz                      |
| Bluetooth Modulation Type     | : GFSK                      |
| Antenna Description           | : Internal Antenna, 1.3 dBi |

#### WIFI (2.4G Band)

|                     |   |
|---------------------|---|
| Frequency Range     | : 2412MHz-2462MHz                                 |
| Channel Spacing     | : 5MHz  |
| Channel Number      | : 11 channels for 20MHz bandwidth (2412~2462MHz)  |
|                     | : 7 channels for 40MHz bandwidth (2422~2452MHz)   |
| Modulation Type     | : IEEE 802.11b: DSSS (CCK,DQPSK,DBPSK);           |
|                     | : IEEE 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK) |
| Antenna Description | : External Antenna, 1.3 dBi                       |

#### 906.8

|                     |                             |
|---------------------|-----------------------------|
| Frequency Range     | : 906.8 MHz                 |
| Modulation Type     | : ASK                       |
| Antenna Description | : External Antenna, 1.3 dBi |

### 1.2. Host System Configuration List and Details

| Manufacturer | Description | Model | Serial Number | Certificate |
|--------------|-------------|-------|---------------|-------------|
| --           | --          | --    | --            | --          |

### 1.3. External I/O Cable

| I/O Port Description | Quantity | Cable            |
|----------------------|----------|------------------|
| Micro USB Port       | 1        | 1.8m, unshielded |
| LAN Port             | 1        | 1.0m, unshielded |

## 1.4. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

The 3m-Semi anechoic test site fulfills CISPR 16-1-4 according to ANSI C63.10:2013 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

## 1.5. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

## 1.6. Measurement Uncertainty

| Test Item              | Frequency Range | Uncertainty | Note |
|------------------------|-----------------|-------------|------|
| Radiation Uncertainty  | 9KHz~30MHz      | ±3.10dB     | (1)  |
|                        | 30MHz~200MHz    | ±2.96dB     | (1)  |
|                        | 200MHz~1000MHz  | ±3.10dB     | (1)  |
|                        | 1GHz~26.5GHz    | ±3.80dB     | (1)  |
|                        | 26.5GHz~40GHz   | ±3.90dB     | (1)  |
| Conduction Uncertainty | 150kHz~30MHz    | ±1.63dB     | (1)  |
| Power disturbance      | 30MHz~300MHz    | ±1.60dB     | (1)  |

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

## 1.7. Description of Test Modes

The EUT has been tested under operating condition.

This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position.

Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be TX mode.

Worst-case mode and channel used for 150 KHz-30 MHz power line conducted emissions was the mode and channel with the highest output power, which was determined to be TX mode.

\*\*\*Note: Using a temporary antenna connector for the EUT when conducted measurements are performed.

| Channel List and Frequency |                |         |                |
|----------------------------|----------------|---------|----------------|
| Channel                    | Frequency(MHz) | Channel | Frequency(MHz) |
| 1                          | 906.8          | --      | --             |

| Mode of Operations     | Transmitting Frequency (MHz) |
|------------------------|------------------------------|
| ASK                    | 906.8                        |
| For Conducted Emission |                              |
| Test Mode              | TX Mode                      |
| For Radiated Emission  |                              |
| Test Mode              | TX Mode                      |



## 2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen LCS Compliance Testing Laboratory Ltd.

### 2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

### 2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.249 under the FCC Rules Part 15 Subpart C.

### 2.3. General Test Procedures

#### 2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

#### 2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, expiatory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2013.

### 3. SYSTEM TEST CONFIGURATION

#### 3.1. Justification

The system was configured for testing in a continuous transmits condition.

#### 3.2. EUT Exercise Software

The system was configured for testing in a continuous transmits condition by software provided by application.

#### 3.3. Special Accessories

N/A

#### 3.4. Block Diagram/Schematics

Please refer to the related document.

#### 3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

#### 3.6. Test Setup

Please refer to the test setup photo.

#### 4. SUMMARY OF TEST RESULTS

| Applied Standard: FCC Part 15 Subpart C           |                                |           |
|---|--------------------------------|-----------|
| FCC Rules   | Description of Test            | Result    |
| §15.205(a), §15.209(a), §15.249(a),<br>§15.249(c) | Radiated Emissions Measurement | Compliant |
| §15.205, §15.249(d)                               | Emissions at Restricted Band   | Compliant |
| §15.215   | 99% and 20dB Bandwidth         | Compliant |
| §15.207(a)  | AC Line Conducted Emissions    | Compliant |
| §15.203   | Antenna Requirements           | Compliant |

*Remark:*

1. Note 1 – Test results inside test report;
2. Note 2 – N/A\*: Not Applicable!

## 5. TEST RESULT

### 5.1. Radiated Emission Measurement

#### 5.1.1. Standard Applicable

- 1). According to §15.249 (d): Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

| Frequencies (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009~0.490       | 2400/F(KHz)                       | 300                           |
| 0.490~1.705       | 24000/F(KHz)                      | 30                            |
| 1.705~30.0        | 30                                | 30                            |
| 30~88             | 100                               | 3                             |
| 88~216            | 150                               | 3                             |
| 216~960           | 200                               | 3                             |
| Above 960         | 500                               | 3                             |

- 2). According to §15.249 (a): Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

| Fundamental frequency | Field strength of fundamental |        | Field strength of harmonics |        |
|-----------------------|-------------------------------|--------|-----------------------------|--------|
|                       | millivolts/meter              | dBuV/m | microvolts/meter            | dBuV/m |
| 902-928 MHz           | 50                            | 94     | 500                         | 54     |
| 2400-2483.5 MHz       | 50                            | 94     | 500                         | 54     |
| 5725-5875 MHz         | 50                            | 94     | 500                         | 54     |
| 24.0-24.25 GHz        | 250                           | 108    | 2500                        | 68     |

As shown in §15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth

#### 5.1.2. Measuring Instruments and Setting

Please refer to equipment's list in this report. The following table is the setting of spectrum analyzer and receiver.

| Spectrum Parameter                        | Setting  |
|---|--|
| Attenuation                               | Auto   |
| Start Frequency                           | 1000 MHz                                       |
| Stop Frequency                            | 10th carrier harmonic                          |
| RB / VB (Emission in restricted band)     | 1MHz / 3MHz for Peak, 1 MHz / 10Hz for Average |
| RB / VB (Emission in non-restricted band) | 1MHz / 3MHz for Peak, 1 MHz / 10Hz for Average |

| Receiver Parameter     | Setting  |
|------------------------|--|
| Attenuation            | Auto   |
| Start ~ Stop Frequency | 9kHz~150kHz / RB/VB 200Hz/1KHz for QP/Average  |
| Start ~ Stop Frequency | 150kHz~30MHz / RB/VB 9kHz/30KHz for QP/Average |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB/VB 120kHz/1MHz for QP       |

### 5.1.3. Test Procedures

#### 1) Sequence of testing 9 kHz to 30 MHz

##### Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

##### Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna height is 1.0 meter.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

##### Final measurement:

- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).
- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

## 2) Sequence of testing 30 MHz to 1 GHz

### Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

### Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 to 3 meter.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

### Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ( $\pm 45^\circ$ ) and antenna movement between 1 and 4 meter.
- The final measurement will be done with QP detector with an EMI receiver.
- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

### 3) Sequence of testing 1 GHz to 18 GHz

#### Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

#### Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height scan range is 1 meter to 2.5 meter.
- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

#### Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ( $\pm 45^\circ$ ) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

#### 4) Sequence of testing above 18 GHz

**Setup:**

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 1 meter.
- The EUT was set into operation.

**Premeasurement:**

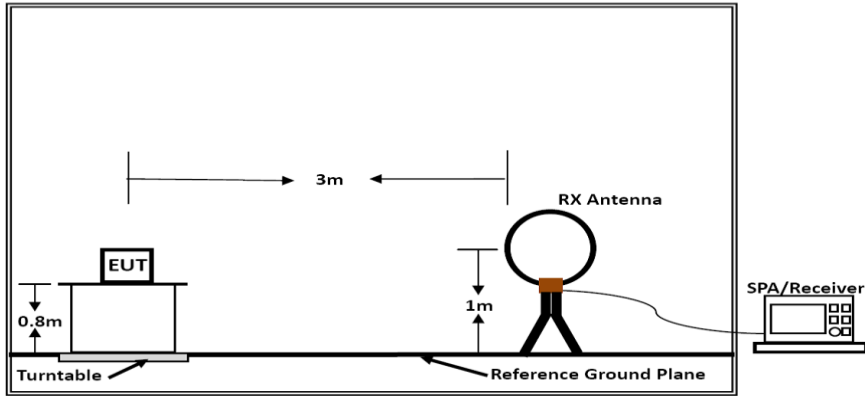
- The antenna is moved spherical over the EUT in different polarizations of the antenna.

**Final measurement:**

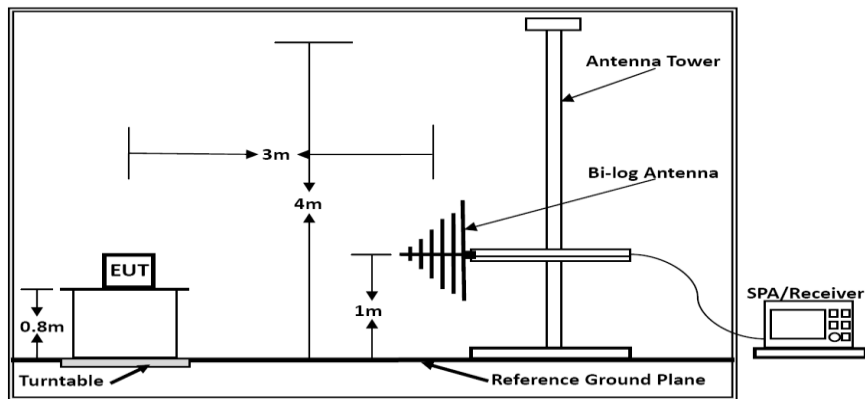
- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.



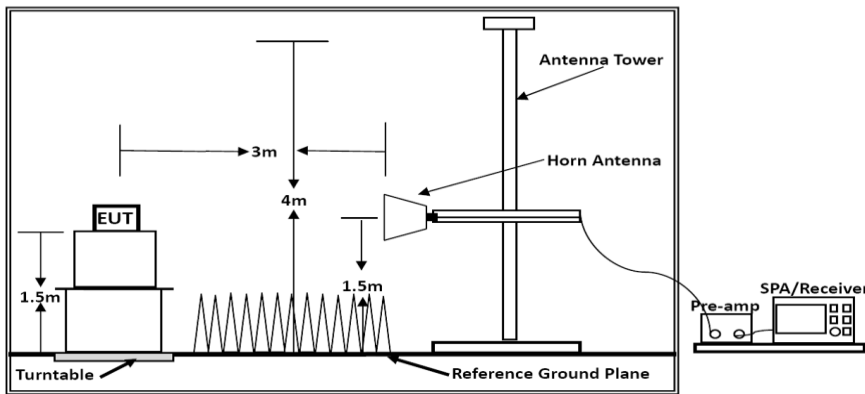
### 5.1.4. Test Setup Layout



Below 30MHz



Below 1GHz



Above 1GHz

Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1m.

Distance extrapolation factor =  $20 \log(\text{specific distance [3m]} / \text{test distance [1.5m]})$  (dB);  
Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

### 5.1.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.1.6. Results of Radiated Emissions (9 KHz~30MHz)

|               |        |                |       |
|---------------|--------|----------------|-------|
| Temperature   | 24.6°C | Humidity       | 54.1% |
| Test Engineer | Jay Li | Configurations | TX    |

| Freq. (MHz) | Level (dBuV) | Over Limit (dB) | Over Limit (dB) | Remark   |
|-------------|--------------|-----------------|-----------------|----------|
| -           | -            | -               | -               | See Note |

Note:

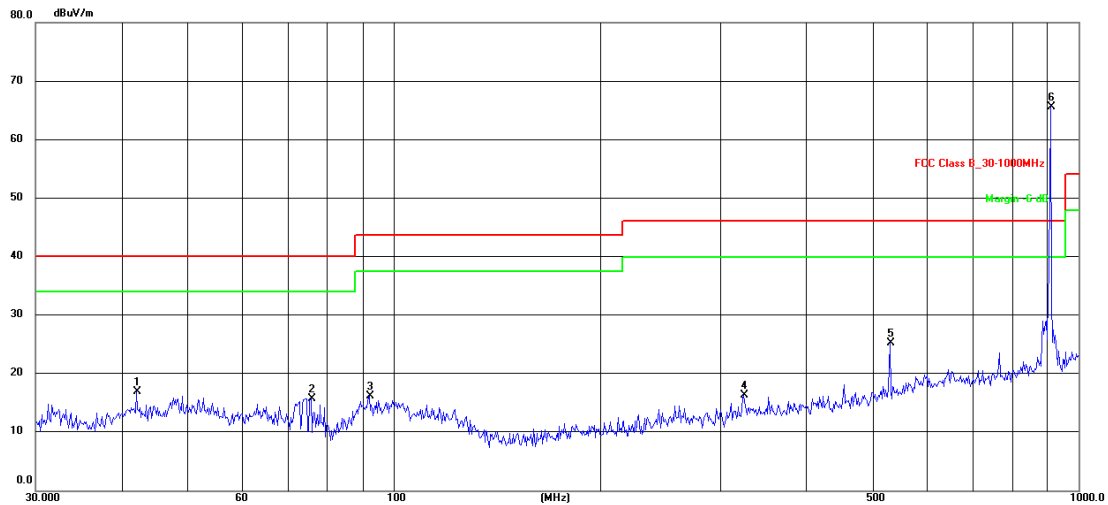
The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = 40 log (specific distance / test distance) (dB);  
 Limit line = specific limits (dBuV) + distance extrapolation factor.

5.1.7. Results of Radiated Emissions (30MHz~1GHz)

|               |        |                |       |
|---------------|--------|----------------|-------|
| Temperature   | 24.6°C | Humidity       | 54.1% |
| Test Engineer | Jay Li | Configurations | TX    |

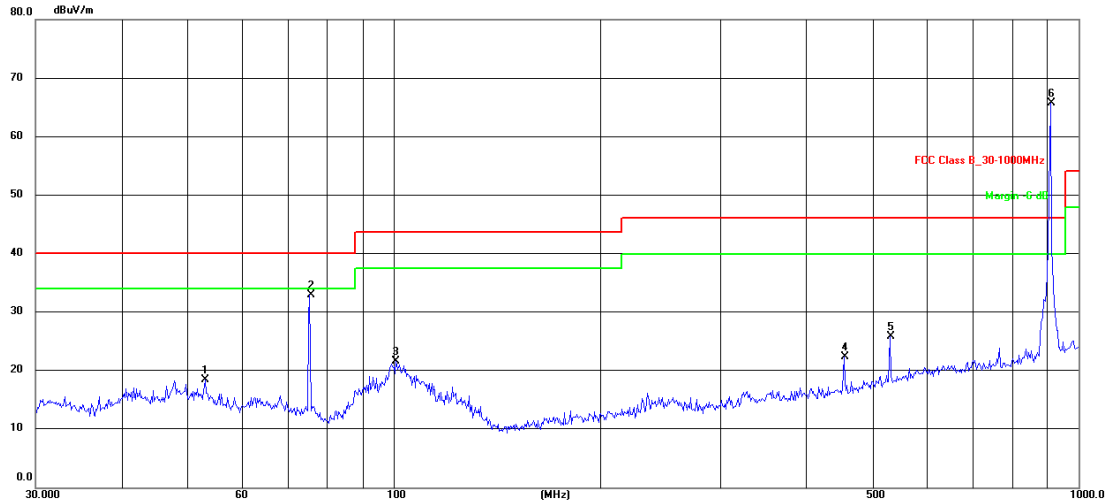
Horizontal



|               |                        |                     |                        |
|---------------|------------------------|---------------------|------------------------|
| Limit:        | FCC Class B_30-1000MHz | Antenna::Horizontal | Temperature(C):24.6(C) |
| Power Rating: | AC 120V/60Hz           |                     | Humidity(%):54.1%      |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 42.1542         | 46.42          | -29.46        | 16.96          | 40.00          | -23.04      | QP   |
| 2   | 75.7114         | 48.18          | -32.40        | 15.78          | 40.00          | -24.22      | QP   |
| 3   | 92.1388         | 44.70          | -28.53        | 16.17          | 43.50          | -27.33      | QP   |
| 4   | 324.4561        | 44.00          | -27.66        | 16.34          | 46.00          | -29.66      | QP   |
| 5   | 530.1014        | 48.62          | -23.31        | 25.31          | 46.00          | -20.69      | QP   |
| 6 * | 906.8           | 83.84          | -18.21        | 65.63          | 94.00          | -28.37      | QP   |

Vertical



|               |                        |                   |                        |
|---------------|------------------------|-------------------|------------------------|
| Limit:        | FCC Class B_30-1000MHz | Antenna::Vertical | Temperature(C):24.6(C) |
| Power Rating: | AC 120V/60Hz           |                   | Humidity(%):54.1%      |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 53.1313         | 47.72          | -29.21        | 18.51          | 40.00          | -21.49      | QP   |
| 2   | 75.4464         | 65.41          | -32.37        | 33.04          | 40.00          | -6.96       | QP   |
| 3   | 100.9339        | 49.03          | -27.44        | 21.59          | 43.50          | -21.91      | QP   |
| 4   | 454.3100        | 47.25          | -24.85        | 22.40          | 46.00          | -23.60      | QP   |
| 5   | 530.1014        | 49.24          | -23.31        | 25.93          | 46.00          | -20.07      | QP   |
| 6 * | 906.8           | 83.96          | -18.21        | 65.75          | 94.00          | -28.25      | QP   |

Note:

- 1). Pre-scan all modes and recorded the worst case results in this report (TX).
- 2). Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3). Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.
- 4). For the fundamental emission limit at 906.8MHz, please refer to following page.

5.1.8. Results of the Fundamental Frequency (906.8MHz)

|               |        |                |         |
|---------------|--------|----------------|---------|
| Temperature   | 24.6°C | Humidity       | 54.1%   |
| Test Engineer | Jay Li | Configurations | TX Mode |

| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Pol.       |
|-----------------|----------------|---------------|----------------|----------------|-------------|------|------------|
| 906.8           | 83.84          | -18.21        | 65.63          | 94.00          | -28.37      | QP   | Horizontal |
| 906.8           | 83.96          | -18.21        | 65.75          | 94.00          | -28.25      | QP   | Vertical   |

## 5.1.9. Results of Radiated Emissions (Above 1GHz)

|               |        |                |       |
|---------------|--------|----------------|-------|
| Temperature   | 24.6°C | Humidity       | 54.1% |
| Test Engineer | Jay Li | Configurations | TX    |

| Freq. MHz | Reading Level dBuV | Ant. Fac. dB/m | Pre. Fac. dB | Cab. Loss dB | Measured dBuV/m | Limit dBuV/m | Margin dB | Remark  | Pol.       |
|-----------|--------------------|----------------|--------------|--------------|-----------------|--------------|-----------|---------|------------|
| TX-Mode   |                    |                |              |              |                 |              |           |         |            |
| 1813.600  | 52.04              | 33.06          | 35.04        | 2.10         | 52.16           | 74.00        | -21.84    | Peak    | Horizontal |
| 1813.600  | 43.74              | 33.06          | 35.04        | 2.10         | 43.86           | 54.00        | -10.14    | Average | Horizontal |
| 1813.600  | 50.24              | 33.06          | 35.04        | 2.10         | 50.36           | 74.00        | -23.64    | Peak    | Vertical   |
| 1813.600  | 47.98              | 33.06          | 35.04        | 2.10         | 48.10           | 54.00        | -5.90     | Average | Vertical   |
| 2720.400  | 58.37              | 33.11          | 35.09        | 2.68         | 59.07           | 74.00        | -14.93    | Peak    | Horizontal |
| 2720.400  | 42.03              | 33.11          | 35.09        | 2.68         | 42.73           | 54.00        | -11.27    | Average | Horizontal |
| 2720.400  | 61.54              | 33.11          | 35.09        | 2.68         | 62.24           | 74.00        | -11.76    | Peak    | Vertical   |
| 2720.400  | 44.61              | 33.11          | 35.09        | 2.68         | 45.31           | 54.00        | -8.69     | Average | Vertical   |
| 3627.200  | 58.86              | 33.03          | 35.07        | 3.10         | 59.92           | 74.00        | -14.08    | Peak    | Horizontal |
| 3627.200  | 40.69              | 33.03          | 35.07        | 3.10         | 41.75           | 54.00        | -12.25    | Average | Horizontal |
| 3627.200  | 60.29              | 33.03          | 35.07        | 3.10         | 61.35           | 74.00        | -12.65    | Peak    | Vertical   |
| 3627.200  | 43.24              | 33.03          | 35.07        | 3.10         | 44.30           | 54.00        | -9.70     | Average | Vertical   |
| 4534.000  | 50.97              | 33.26          | 35.14        | 3.94         | 53.03           | 74.00        | -20.97    | Peak    | Horizontal |
| 4534.000  | 46.42              | 33.26          | 35.14        | 3.94         | 48.48           | 54.00        | -5.52     | Average | Horizontal |
| 4534.000  | 54.95              | 33.26          | 35.14        | 3.94         | 57.01           | 74.00        | -16.99    | Peak    | Vertical   |
| 4534.000  | 47.49              | 33.26          | 35.14        | 3.94         | 49.55           | 54.00        | -4.45     | Average | Vertical   |

## Notes:

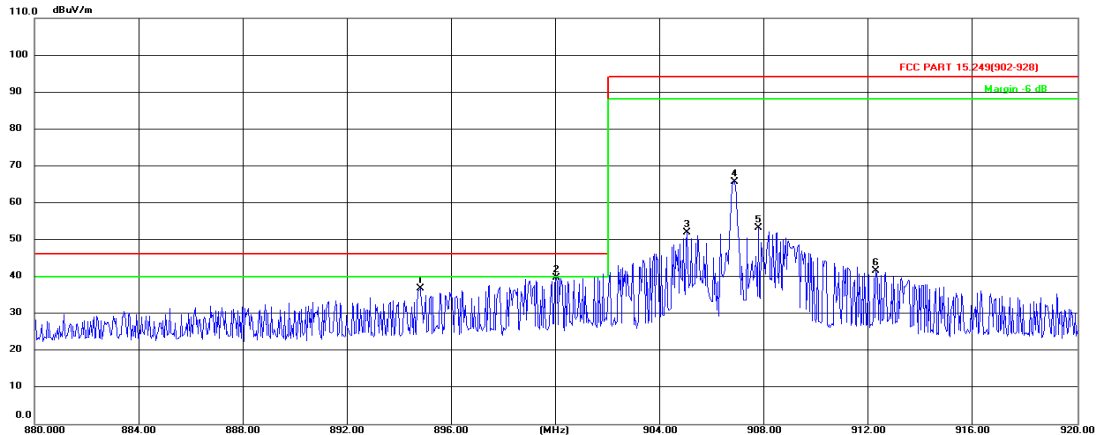
- 1). Measuring frequencies from 9 KHz~10<sup>th</sup> harmonic (ex. 10GHz), No emission found between lowest internal used/generated frequency to 30MHz.
- 2). Radiated emissions measured in frequency range from 9k~10th harmonic (ex. 10GHz) were made with an instrument using Peak detector mode.
- 3). No emission was be recorded above 18GHz means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4). Corrected Reading: Measured = Reading Level + Ant. Fac. + Cab. Loss - Pre.Fac.

5.1.10. Results for Restricted Band Edge Testing

|               |        |                |       |
|---------------|--------|----------------|-------|
| Temperature   | 24.6°C | Humidity       | 54.1% |
| Test Engineer | Jay Li | Configurations | TX    |

Test Frequency Range: 900MHz-920MHz

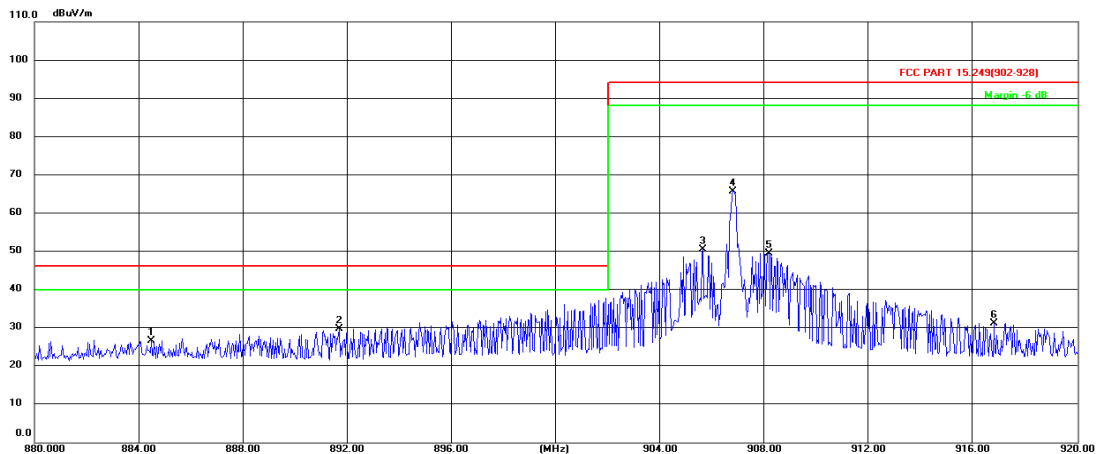
Horizontal



|               |                          |                     |                        |
|---------------|--------------------------|---------------------|------------------------|
| Limit:        | FCC PART 15.249(902-928) | Antenna::Horizontal | Temperature(C):24.6(C) |
| Power Rating: | AC 120V/60Hz             |                     | Humidity(%):54.1%      |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 894.8000        | 55.21          | -18.34        | 36.87          | 46.00          | -9.13       | QP   |
| 2 * | 900.0000        | 58.05          | -18.28        | 39.77          | 46.00          | -6.23       | QP   |
| 3   | 905.0400        | 70.27          | -18.24        | 52.03          | 94.00          | -41.97      | QP   |
| 4   | 906.8400        | 83.99          | -18.23        | 65.76          | 94.00          | -28.24      | QP   |
| 5   | 907.7600        | 71.51          | -18.22        | 53.29          | 94.00          | -40.71      | QP   |
| 6   | 912.2800        | 59.90          | -18.19        | 41.71          | 94.00          | -52.29      | QP   |

Vertical

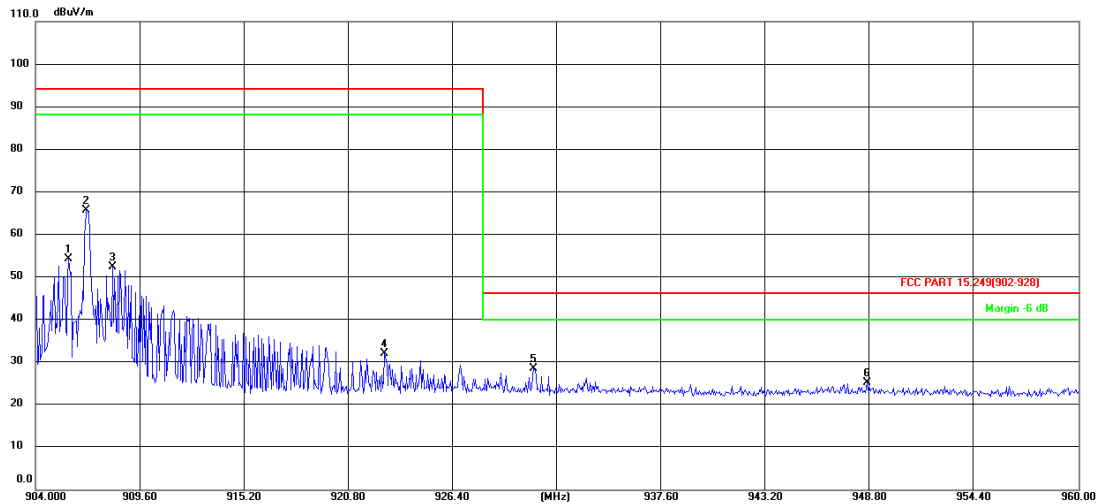


|               |                          |                   |                        |
|---------------|--------------------------|-------------------|------------------------|
| Limit:        | FCC PART 15.249(902-928) | Antenna::Vertical | Temperature(C):24.6(C) |
| Power Rating: | AC 120V/60Hz             |                   | Humidity(%):54.1%      |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 884.4800        | 45.21          | -18.48        | 26.73          | 46.00          | -19.27      | QP   |
| 2 * | 891.6800        | 48.12          | -18.39        | 29.73          | 46.00          | -16.27      | QP   |
| 3   | 905.6400        | 68.72          | -18.24        | 50.48          | 94.00          | -43.52      | QP   |
| 4   | 906.8000        | 84.00          | -18.23        | 65.77          | 94.00          | -28.23      | QP   |
| 5   | 908.1600        | 67.79          | -18.22        | 49.57          | 94.00          | -44.43      | QP   |
| 6   | 916.8000        | 49.45          | -18.15        | 31.30          | 94.00          | -62.70      | QP   |

Test Frequency Range: 904MHz-960MHz

Horizontal



Limit: FCC PART 15.249(902-928)      Antenna::Horizontal    Temperature(C):24.6(C)  
 Power Rating: AC 120V/60Hz      Humidity(%):54.1%

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 905.7920        | 72.56          | -18.24        | 54.32          | 94.00          | -39.68      | QP   |
| 2   | 906.7440        | 83.98          | -18.23        | 65.75          | 94.00          | -28.25      | QP   |
| 3   | 908.1440        | 70.63          | -18.22        | 52.41          | 94.00          | -41.59      | QP   |
| 4   | 922.7600        | 50.19          | -18.10        | 32.09          | 94.00          | -61.91      | QP   |
| 5 * | 930.7680        | 46.64          | -18.05        | 28.59          | 46.00          | -17.41      | QP   |
| 6   | 948.6320        | 43.12          | -17.91        | 25.21          | 46.00          | -20.79      | QP   |

Vertical



Limit: FCC PART 15.249(902-928)      Antenna::Vertical    Temperature(C):24.6(C)  
 Power Rating: AC 120V/60Hz      Humidity(%):54.1%

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 905.7360        | 70.34          | -18.24        | 52.10          | 94.00          | -41.90      | QP   |
| 2   | 906.8000        | 83.96          | -18.23        | 65.73          | 94.00          | -28.27      | QP   |
| 3   | 908.0320        | 67.12          | -18.22        | 48.90          | 94.00          | -45.10      | QP   |
| 4   | 918.1120        | 49.14          | -18.14        | 31.00          | 94.00          | -63.00      | QP   |
| 5   | 923.6000        | 45.29          | -18.10        | 27.19          | 94.00          | -66.81      | QP   |
| 6 * | 930.8240        | 43.81          | -18.05        | 25.76          | 46.00          | -20.24      | QP   |

## 5.2. 99% and 20dB Bandwidth Measurement

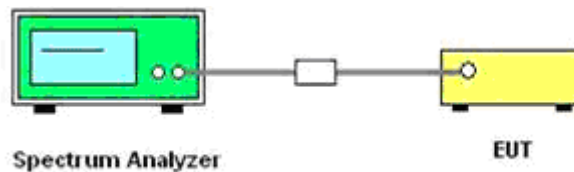
### 5.2.1. Limit

No Limit

### 5.2.2. Test Procedures

- a. Place the EUT on the table and set it in transmitting mode.
- b. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer.
- c. Set to the maximum power setting and enable the EUT transmit continuously.
- d. For 99% and 20dB bandwidth measurement, use the following spectrum analyzer settings:  
Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel;  
RBW/VBW=10 KHz/ 30KHz; Sweep = auto; Detector function = peak; Trace = max hold.

### 5.2.3. Test Setup Layout



### 5.2.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

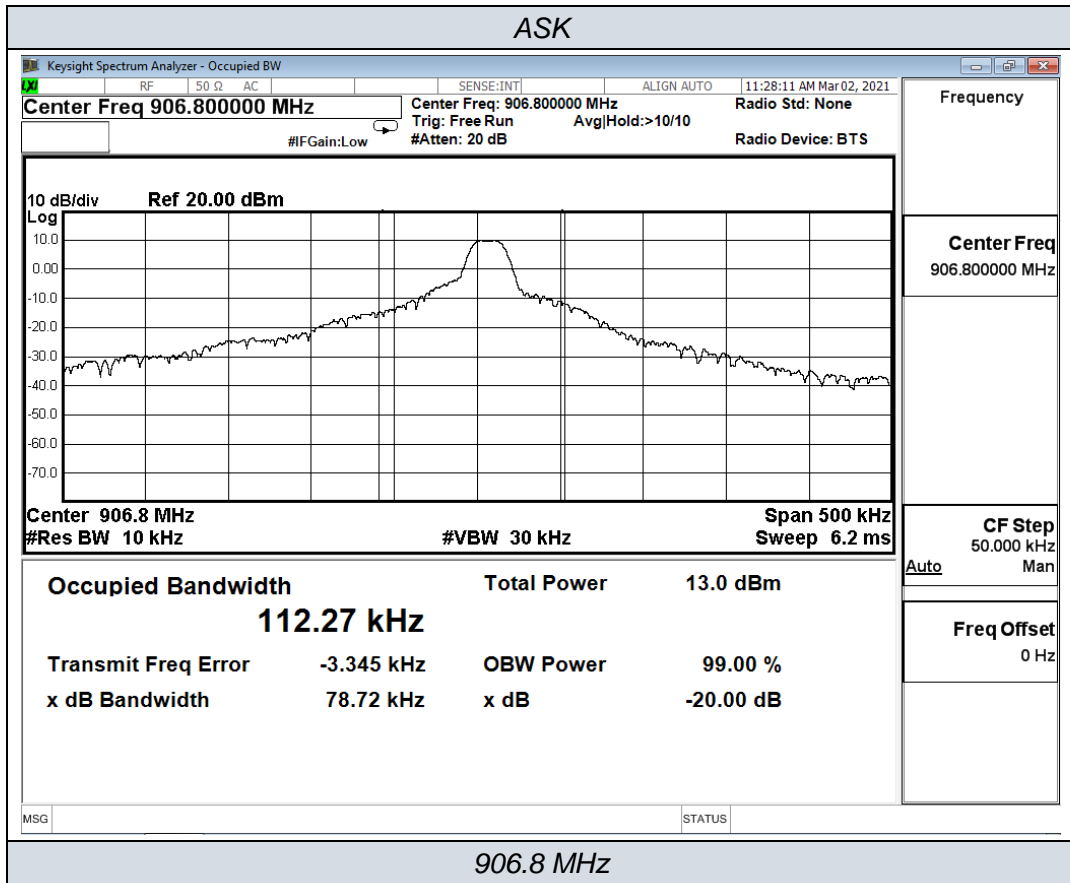
### 5.2.5. Test Result of 99% and 20 dB Bandwidth Measurement

|               |        |                |     |
|---------------|--------|----------------|-----|
| Temperature   | 23.6°C | Humidity       | 55% |
| Test Engineer | Jay Li | Configurations | TX  |

| Test Mode | Frequency (MHz) | 99% Bandwidth (KHz) | 20dB Bandwidth (KHz) | Limits        | Verdict |
|-----------|-----------------|---------------------|----------------------|---------------|---------|
| TX        | 906.8           | 112.27              | 78.72                | Non-specified | PASS    |

#### Remark:

1. Test results including cable loss;
2. Please refer to following plots;





### 5.3. AC Power Line Conducted Emissions

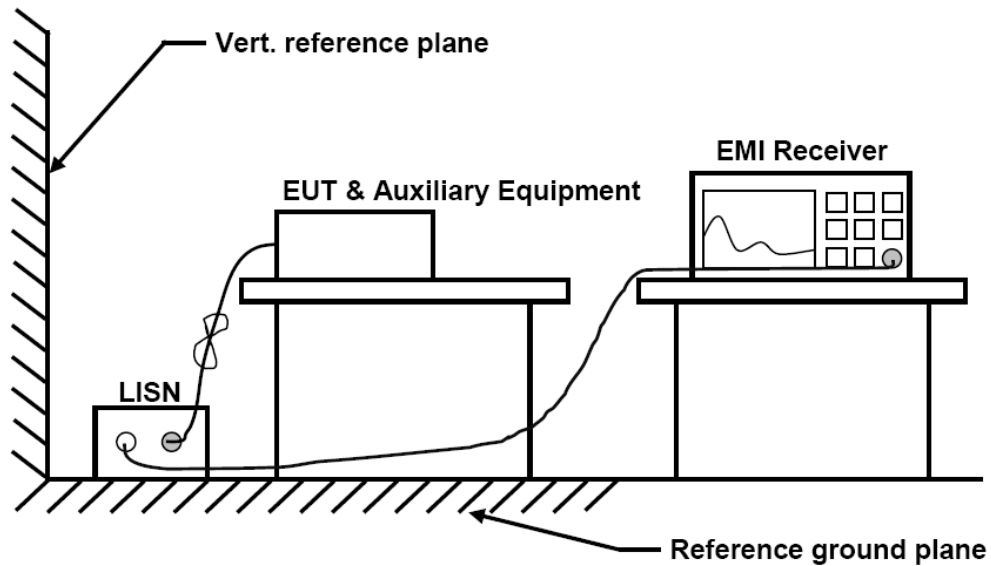
#### 5.3.1 Standard Applicable

According to §15.207 (a): For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

| Frequency Range (MHz) | Limits (dBµV) |          |
|-----------------------|---------------|----------|
|                       | Quasi-peak    | Average  |
| 0.15 to 0.50          | 66 to 56      | 56 to 46 |
| 0.50 to 5             | 56            | 46       |
| 5 to 30               | 60            | 50       |

\* Decreasing linearly with the logarithm of the frequency

#### 5.3.2 Block Diagram of Test Setup



#### 5.3.3 Test Results

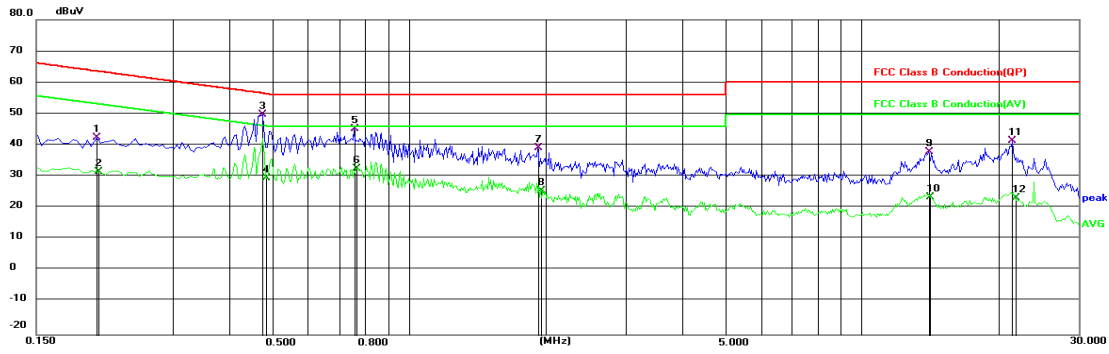
**PASS.**

The test data please refer to following page.

|               |        |                |       |
|---------------|--------|----------------|-------|
| Temperature   | 21.5°C | Humidity       | 50.6% |
| Test Engineer | Jay Li | Configurations | TX    |

**AC Conducted Emission of working with an Adapter power supply @ AC 120V/60Hz @ TX (worst case)**

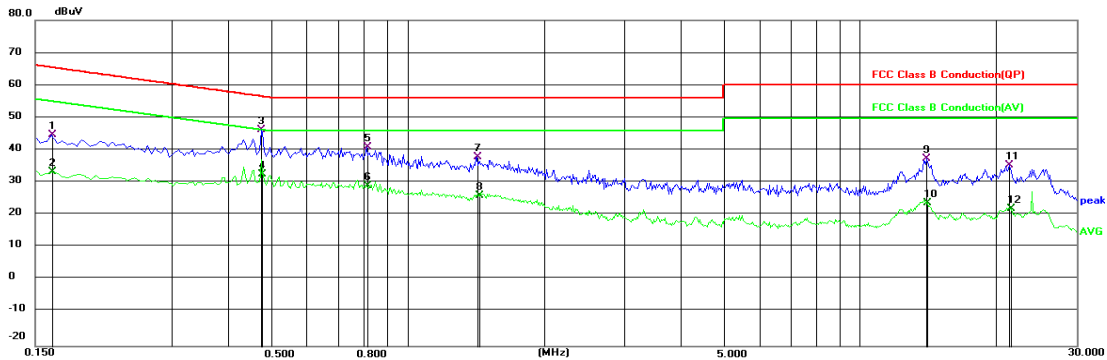
Line



|                      |                            |               |    |                        |         |
|----------------------|----------------------------|---------------|----|------------------------|---------|
| <b>Power Rating:</b> | AC 120V/60Hz               | <b>Phase:</b> | L1 | <b>Temperature(C):</b> | 21.5(C) |
| <b>Limit:</b>        | FCC Class B Conduction(QP) |               |    | <b>Humidity(%):</b>    | 50.6%RH |

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|-----------------|----------------|--------------|---------------|--------------|-------------|--------|
| 1   | 0.2041          | 21.77          | 20.78        | 42.55         | 63.44        | -20.89      | QP     |
| 2   | 0.2061          | 11.05          | 20.76        | 31.81         | 53.36        | -21.55      | AVG    |
| 3   | 0.4741          | 28.78          | 21.02        | 49.80         | 56.44        | -6.64       | QP     |
| 4   | 0.4831          | 8.72           | 20.98        | 29.70         | 46.29        | -16.59      | AVG    |
| 5   | 0.7576          | 24.90          | 20.37        | 45.27         | 56.00        | -10.73      | QP     |
| 6   | 0.7666          | 12.47          | 20.36        | 32.83         | 46.00        | -13.17      | AVG    |
| 7   | 1.9186          | 19.92          | 19.39        | 39.31         | 56.00        | -16.69      | QP     |
| 8   | 1.9546          | 6.45           | 19.39        | 25.84         | 46.00        | -20.16      | AVG    |
| 9   | 14.0056         | 18.08          | 20.03        | 38.11         | 60.00        | -21.89      | QP     |
| 10  | 14.2126         | 3.75           | 20.06        | 23.81         | 50.00        | -26.19      | AVG    |
| 11  | 21.4036         | 21.61          | 20.07        | 41.68         | 60.00        | -18.32      | QP     |
| 12  | 21.7231         | 3.26           | 20.07        | 23.33         | 50.00        | -26.67      | AVG    |

Neutral



|                      |                            |               |   |                        |         |
|----------------------|----------------------------|---------------|---|------------------------|---------|
| <b>Power Rating:</b> | AC 120V/60Hz               | <b>Phase:</b> | N | <b>Temperature(C):</b> | 21.5(C) |
| <b>Limit:</b>        | FCC Class B Conduction(QP) |               |   | <b>Humidity(%):</b>    | 50.6%RH |

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|-----------------|----------------|--------------|---------------|--------------|-------------|--------|
| 1   | 0.1636          | 23.76          | 21.06        | 44.82         | 65.28        | -20.46      | QP     |
| 2   | 0.1641          | 12.36          | 21.05        | 33.41         | 55.25        | -21.84      | AVG    |
| 3   | 0.4741          | 25.24          | 21.03        | 46.27         | 56.44        | -10.17      | QP     |
| 4   | 0.4786          | 11.78          | 21.01        | 32.79         | 46.36        | -13.57      | AVG    |
| 5   | 0.8116          | 20.70          | 20.33        | 41.03         | 56.00        | -14.97      | QP     |
| 6   | 0.8116          | 8.88           | 20.33        | 29.21         | 46.00        | -16.79      | AVG    |
| 7   | 1.4236          | 18.75          | 19.33        | 38.08         | 56.00        | -17.92      | QP     |
| 8   | 1.4371          | 6.92           | 19.33        | 26.25         | 46.00        | -19.75      | AVG    |
| 9   | 14.0101         | 17.45          | 20.02        | 37.47         | 60.00        | -22.53      | QP     |
| 10  | 14.1046         | 4.03           | 20.03        | 24.06         | 50.00        | -25.94      | AVG    |
| 11  | 21.3406         | 15.21          | 20.29        | 35.50         | 60.00        | -24.50      | QP     |
| 12  | 21.4891         | 1.98           | 20.29        | 22.27         | 50.00        | -27.73      | AVG    |

\*\*\*Note: Pre-scan all modes and recorded the worst case results in this report.

Corrected Reading: Reading Level + Correct = Level.

## 5.4. Antenna Requirements

### 5.4.1 Standard Applicable

According to antenna requirement of §15.203, 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 shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be re-placed by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

And according to §15.247(4)(1), system operating in the 2400-2483.5MHz bands that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

### 5.4.2 Antenna Connected Construction

#### 5.4.2.1. Standard Applicable

According to § 15.203, 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.

#### 5.4.2.2. Antenna Connector Construction

The directional gains of antenna used for transmitting is 1.3 dBi (Max.), and the antenna is an External Antenna connect to PCB board and no consideration of replacement. Please see EUT photo for details.

#### 5.4.2.3. Results: Compliance.

## 6. LIST OF MEASURING EQUIPMENTS

| Item | Equipment                | Manufacturer | Model No.    | Serial No.      | Last Cal.  | Next Cal.  |
|------|--------------------------|--------------|--------------|-----------------|------------|------------|
| 1    | Power Meter              | R&S          | NRVS         | 100444          | 2020-06-22 | 2021-06-21 |
| 2    | Power Sensor             | R&S          | NRV-Z81      | 100458          | 2020-06-22 | 2021-06-21 |
| 3    | Power Sensor             | R&S          | NRV-Z32      | 10057           | 2020-06-22 | 2021-06-21 |
| 4    | Test Software            | Tonscend     | JS1120-2     | /               | N/A        | N/A        |
| 5    | RF Control Unit          | Tonscend     | JS0806-2     | N/A             | 2020-06-22 | 2021-06-21 |
| 6    | MXA Signal Analyzer      | Agilent      | N9020A       | MY50510140      | 2020-11-22 | 2021-11-21 |
| 7    | DC Power Supply          | Agilent      | E3642A       | N/A             | 2020-11-14 | 2021-11-13 |
| 8    | EMI Test Software        | EZ           | EZ-EMC       | /               | N/A        | N/A        |
| 9    | 3m Full Anechoic Chamber | MRDIANZI     | FAC-3M       | MR009           | 2020-09-27 | 2021-09-26 |
| 10   | Positioning Controller   | MF           | MF7082       | MF78020803      | 2020-06-22 | 2021-06-21 |
| 11   | Active Loop Antenna      | SCHWARZBECK  | FMZB 1519B   | 00005           | 2018-07-26 | 2021-07-25 |
| 12   | By-log Antenna           | SCHWARZBECK  | VULB9163     | 9163-470        | 2018-07-26 | 2021-07-25 |
| 13   | Horn Antenna             | SCHWARZBECK  | BBHA 9120D   | 9120D-1925      | 2018-07-02 | 2021-07-01 |
| 14   | Broadband Horn Antenna   | SCHWARZBECK  | BBHA 9170    | 791             | 2018-09-21 | 2021-09-20 |
| 15   | Broadband Preamplifier   | SCHWARZBECK  | BBV9745      | 9719-025        | 2020-06-22 | 2021-06-21 |
| 16   | EMI Test Receiver        | R&S          | ESR 7        | 101181          | 2020-06-22 | 2021-06-21 |
| 17   | RS SPECTRUM ANALYZER     | R&S          | FSP40        | 100503          | 2020-11-14 | 2021-11-13 |
| 18   | Broadband Preamplifier   | /            | BP-01M18G    | P190501         | 2020-06-22 | 2021-06-21 |
| 19   | RF Cable-R03m            | Jye Bao      | RG142        | CB021           | 2020-06-22 | 2021-06-21 |
| 20   | RF Cable-HIGH            | SUHNER       | SUCOFLEX 106 | 03CH03-HY       | 2020-06-22 | 2021-06-21 |
| 21   | 6dB Attenuator           | /            | 100W/6dB     | 1172040         | 2020-06-22 | 2021-06-21 |
| 22   | 3dB Attenuator           | /            | 2N-3dB       | /               | 2020-06-22 | 2021-06-21 |
| 23   | EMI Test Receiver        | R&S          | ESPI         | 101840          | 2020-06-22 | 2021-06-21 |
| 24   | Artificial Mains         | R&S          | ENV216       | 101288          | 2020-06-22 | 2021-06-21 |
| 25   | 10dB Attenuator          | SCHWARZBECK  | MTS-IMP-136  | 261115-001-0032 | 2020-06-22 | 2021-06-21 |

Note: All equipment is calibrated through CHINA CEPREI LABORATORY and GUANGZHOU LISAI CALIBRATION AND TEST CO., LTD.

## **7. TEST SETUP PHOTOGRAPHS OF EUT**

Please refer to separated files for Test Setup Photos of the EUT.

## **8. EXTERIOR PHOTOGRAPHS OF THE EUT**

Please refer to separated files for External Photos of the EUT.

## **9. INTERIOR PHOTOGRAPHS OF THE EUT**

Please refer to separated files for Internal Photos of the EUT.

-----THE END OF REPORT-----