

**FCC TEST REPORT**  
**FOR**  
**Shenzhen DRYWELL Intelligent Technology Co., Ltd**  
**Queen Scepter**  
**Test Model: AB02**

|                                |   |  |
|--------------------------------|---|--|
| Prepared for                   | : | Shenzhen DRYWELL Intelligent Technology Co., Ltd   |
| Address                        | : | 301 Plant, Building 35, Lianchuang Technology Park Phase 3, Bulan Road No.21, Nanwan Street, Longgang Dist, Shenzhen, GD, CN China |
| Prepared by                    | : | Shenzhen LCS Compliance Testing Laboratory Ltd   |
| Address                        | : | 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing Street, Bao'an District, Shenzhen, Guangdong, China                     |
| Tel                            | : | (+86)755-82591330  |
| Fax                            | : | (+86)755-82591332  |
| Web                            | : | www.LCS-cert.com   |
| Mail                           | : | webmaster@LCS-cert.com   |
| Date of receipt of test sample | : | June 17, 2021  |
| Number of tested samples       | : | 1  |
| Sample number                  | : | 210617080A   |
| Sample number                  | : | Prototype  |
| Date of Test                   | : | June 17, 2021 ~ June 25, 2021  |
| Date of Report                 | : | June 25, 2021  |

**FCC TEST REPORT****FCC CFR 47 PART 15 C(15.249)****Report Reference No. .... : LCS210617080AEA**

Date of Issue..... : June 25, 2021

**Testing Laboratory Name ..... : Shenzhen LCS Compliance Testing Laboratory Ltd.**Address..... : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing Street,  
Bao'an District, Shenzhen, Guangdong, ChinaTesting Location/ Procedure ..... : Full application of Harmonised standards ■  
Partial application of Harmonised standards □  
Other standard testing method □**Applicant's Name ..... : Shenzhen DRYWELL Intelligent Technology Co., Ltd**Address..... : 301 Plant, Building 35, Lianchuang Technology Park Phase 3,  
Bulan Road No.21, Nanwan Street, Longgang Dist, Shenzhen, GD,  
CN China**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 2019-03

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**Test Item Description..... : Queen Scepter**

Trade Mark ..... : DRYWELL

Test Model..... : AB02

Ratings..... : DC 3.7V By Battery(500mAh)

Recharged By 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

Test Report No. : LCS210617080AEA

June 25, 2021  
Date of issue

Test Model..... : AB02

EUT..... : Queen Scepter

**Applicant..... : Shenzhen DRYWELL Intelligent Technology Co., Ltd**Address..... : 301 Plant, Building 35, Lianchuang Technology Park Phase 3,  
Bulan Road No.21, Nanwan Street, Longgang Dist, Shenzhen,  
GD, CN China

Telephone..... : /

Fax..... : /

**Manufacturer..... : Shenzhen DRYWELL Intelligent Technology Co., Ltd**Address..... : 301 Plant, Building 35, Lianchuang Technology Park Phase 3,  
Bulan Road No.21, Nanwan Street, Longgang Dist, Shenzhen,  
GD, CN China

Telephone..... : /

Fax..... : /

**Factory..... : Shenzhen DRYWELL Intelligent Technology Co., Ltd**Address..... : 301 Plant, Building 35, Lianchuang Technology Park Phase 3,  
Bulan Road No.21, Nanwan Street, Longgang Dist, Shenzhen,  
GD, CN China

Telephone..... : /

Fax..... : /

Test Result

Positive

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      | June 25, 2021 | Initial Issue | Gavin Liang |
|          |               |               |             |
|          |               |               |             |

## TABLE OF CONTENTS

|   |           |
|---|-----------|
| <b>1. GENERAL INFORMATION.....</b>                                    | <b>6</b>  |
| 1.1 DESCRIPTION OF DEVICE (EUT) .....                                 | 6         |
| 1.2. SUPPORT EQUIPMENT LIST.....                                      | 6         |
| 1.3. EXTERNAL I/O.....  | 6         |
| 1.4. DESCRIPTION OF TEST FACILITY .....                               | 6         |
| 1.5. STATEMENT OF THE MEASUREMENT UNCERTAINTY .....                   | 6         |
| 1.6. MEASUREMENT UNCERTAINTY .....                                    | 7         |
| 1.7. DESCRIPTION OF TEST MODES.....                                   | 7         |
| <b>2. TEST METHODOLOGY .....</b>                                      | <b>8</b>  |
| 2.1. EUT CONFIGURATION .....  | 8         |
| 2.2. EUT EXERCISE.....  | 8         |
| 2.3. GENERAL TEST PROCEDURES.....                                     | 8         |
| <b>3. CONNECTION DIAGRAM OF TEST SYSTEM .....</b>                     | <b>9</b>  |
| 3.1. JUSTIFICATION .....  | 9         |
| 3.2. EUT EXERCISE SOFTWARE .....                                      | 9         |
| 3.3. SPECIAL ACCESSORIES .....  | 9         |
| 3.4. BLOCK DIAGRAM/SCHEMATICS .....                                   | 9         |
| 3.5. EQUIPMENT MODIFICATIONS .....                                    | 9         |
| 3.6. TEST SETUP.....  | 9         |
| <b>4. SUMMARY OF TEST RESULTS .....</b>                               | <b>10</b> |
| <b>5. ANTENNA REQUIREMENT .....</b>                                   | <b>11</b> |
| <b>6. POWER LINE CONDUCTED EMISSIONS (NOT APPLICABLE) .....</b>       | <b>12</b> |
| <b>7. RADIATED EMISSION MEASUREMENT .....</b>                         | <b>14</b> |
| <b>8. RESULTS FOR BAND EDGE TESTING.....</b>                          | <b>23</b> |
| <b>9. 99% OCCUPIED BANDWIDTH AND 20 DB BANDWIDTH MEASUREMENT.....</b> | <b>29</b> |
| <b>10. LIST OF MEASURING EQUIPMENT.....</b>                           | <b>31</b> |
| <b>11. TEST SETUP PHOTOGRAPHS OF THE EUT .....</b>                    | <b>32</b> |
| <b>12. EXTERIOR PHOTOGRAPHS OF THE EUT .....</b>                      | <b>32</b> |
| <b>13. INTERIOR PHOTOGRAPHS OF THE EUT .....</b>                      | <b>32</b> |

# 1. GENERAL INFORMATION

## 1.1 Description of Device (EUT)

|                     |   |
|---------------------|---|
| EUT                 | : Queen Scepter                                       |
| Test Model          | : AB02  |
| List Model No.      | : AB02  |
| Power Supply        | : DC 3.7V By Battery(500mAh)<br>Recharged By DC 5V 1A |
| Hardware Version    | : R0025-TX  |
| Software Version    | : /   |
| 2.4G                | :   |
| Frequency Range     | : 2478MHz   |
| Channel Number      | : 1 channels(2478MHz)                                 |
| Modulation Type     | : GFSK  |
| Antenna Description | : Internal antenna, 0 dBi (Max.)                      |

## 1.2. Support Equipment List

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

## 1.3. External I/O

| I/O Port Description | Quantity | Cable |
|----------------------|----------|-------|
| DC IN                | 1        | --    |

## 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 fulfils 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

Operates in the unlicensed ISM Band at 2.4GHz. With basic data rate feature, the data rates can be up to 1 Mb/s by modulating the RF carrier using GFSK techniques. The EUT works in the X-axis, Y-axis, Z-axis. The following operating modes were applied for the related test items. All test modes were tested, only the result of the worst case was recorded in the report.

| Mode of Operations     | Frequency Range (MHz) | Data Rate (Mbps) |
|------------------------|-----------------------|------------------|
| GFSK                   | 2478                  | /                |
| For Conducted Emission |                       |                  |
| Test Mode              | Charging Mode         |                  |
| For Radiated Emission  |                       |                  |
| Test Mode              | TX Mode               |                  |

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.

Worst-case mode and channel used for 150 KHz-30 MHz power line conducted emissions was determined to be Charging 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 directly placed on the ground. 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 turntable, which is directly placed on the ground. 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, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2013



### **3. CONNECTION DIAGRAM OF TEST SYSTEM**

#### **3.1. Justification**

The system was configured for testing in a continuous transmit condition. Continuous transmitting was pre-programmed. It'll keep transmitting with modulated signal at the lowest channel by installing the battery.

#### **3.2. EUT Exercise Software**

Press the EUT button, and set the equipment to work.

#### **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 §15.249 |                                |           |
|---|--------------------------------|-----------|
| FCC Rules                                       | Description Of Test            | Result    |
| §15.203   | Antenna Requirement            | Compliant |
| §15.207(a)                                      | Power Line Conducted Emissions | Compliant |
| §15.205(a), §15.209(a), §15.249(a), §15.249(c)  | Radiated Emissions Measurement | Compliant |
| §15.249 (d)                                     | Band Edges Measurement         | Compliant |
| §15.215(c)                                      | 99% and 20 dB Bandwidth        | Compliant |

Remark:

N/A\* - Not Applicable for this device!!!

## **5. ANTENNA REQUIREMENT**

### **5.1. Standard Applicable**

According to § 15.203 and RSS-Gen, 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 replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### **5.2. Antenna Connected Construction**

The EUT use an internal antenna and maximum antenna gain is 0 dBi, antenna cannot replacement, meets FCC Part §15.203 antenna requirement. Please see EUT photo for details.

### **5.3. Results**

Compliance.

## 6. POWER LINE CONDUCTED EMISSIONS (NOT APPLICABLE)

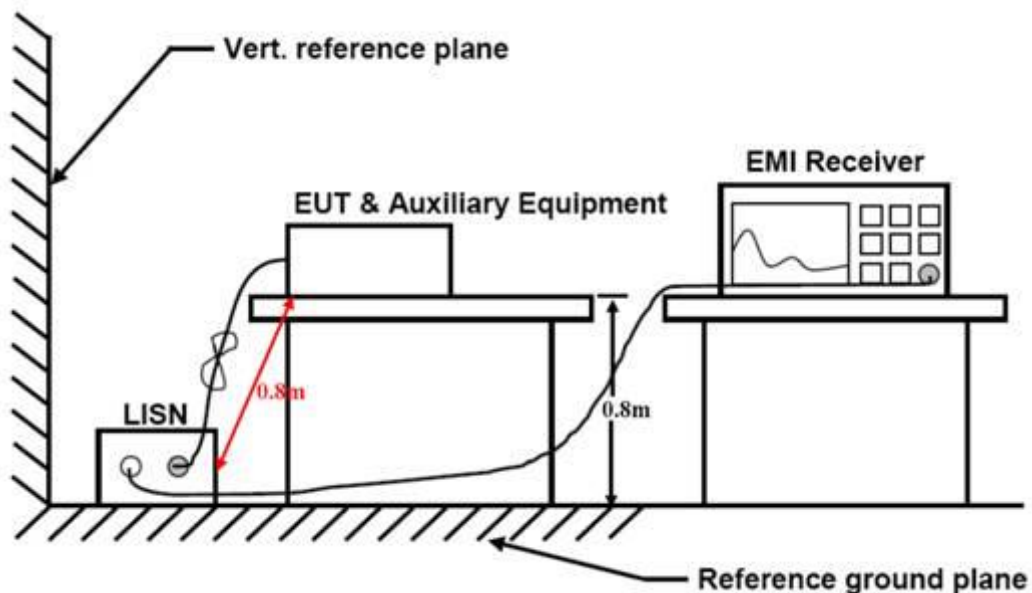
### 6.1. Standard Applicable

According to §15.207 (a) & RSS-Gen § 8.8: 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

### 6.2. Block Diagram of Test Setup



### 6.3. Test Results

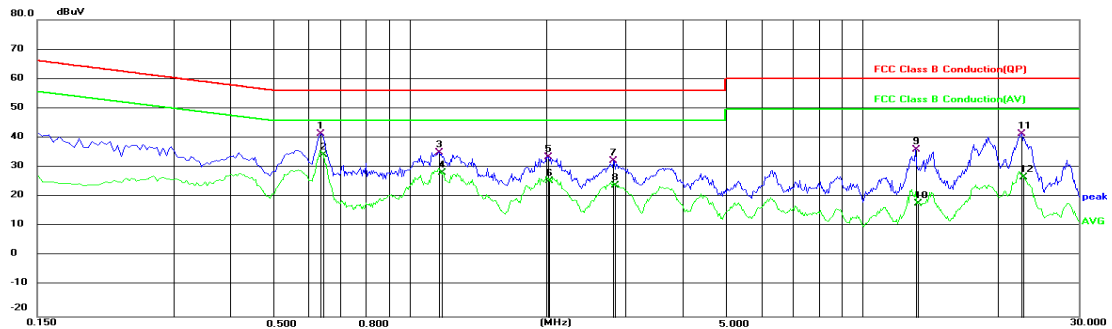
**PASS.**

The test data please refer to following page.

|               |        |                |         |
|---------------|--------|----------------|---------|
| Temperature   | 23.3°C | Humidity       | 53.7%   |
| Test Engineer | Jay Li | Configurations | 2478MHz |

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

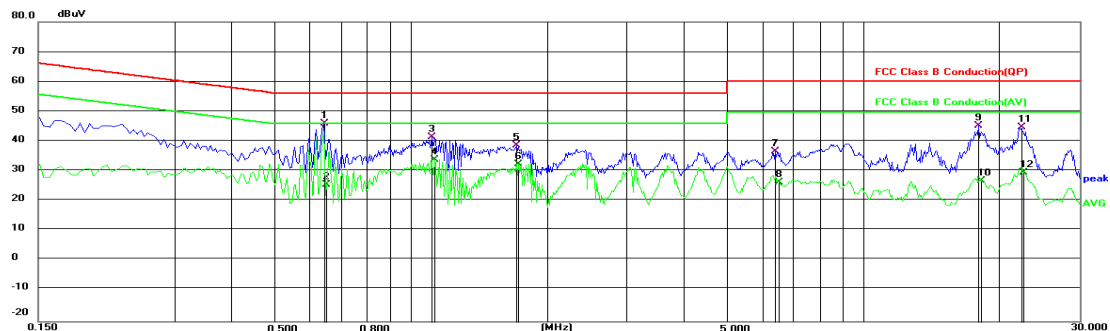
Line



Power Rating: AC 120V/60Hz Phase: L1 Temperature(C): 23.3(C)  
Limit: FCC Class B Conduction(QP) Humidity(%): 53.7%RH

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-----------------|------------------|-----------------|----------------|--------|
| 1   | 0.6360             | 29.97             | 11.55           | 41.52            | 56.00           | -14.48         | QP     |
| 2   | 0.6450             | 23.00             | 11.56           | 34.56            | 46.00           | -11.44         | AVG    |
| 3   | 1.1533             | 23.27             | 12.05           | 35.32            | 56.00           | -20.68         | QP     |
| 4   | 1.1758             | 16.54             | 12.06           | 28.60            | 46.00           | -17.40         | AVG    |
| 5   | 2.0264             | 21.44             | 12.40           | 33.84            | 56.00           | -22.16         | QP     |
| 6   | 2.0400             | 13.27             | 12.40           | 25.67            | 46.00           | -20.33         | AVG    |
| 7   | 2.8184             | 20.15             | 12.42           | 32.57            | 56.00           | -23.43         | QP     |
| 8   | 2.8500             | 11.84             | 12.42           | 24.26            | 46.00           | -21.74         | AVG    |
| 9   | 13.0694            | 23.08             | 13.14           | 36.22            | 60.00           | -23.78         | QP     |
| 10  | 13.2539            | 4.90              | 13.16           | 18.06            | 50.00           | -31.94         | AVG    |
| 11  | 22.5330            | 28.37             | 13.27           | 41.64            | 60.00           | -18.36         | QP     |
| 12  | 22.6904            | 13.71             | 13.29           | 27.00            | 50.00           | -23.00         | AVG    |

Neutral



Power Rating: AC 120V/60Hz Phase: N Temperature(C): 23.3(C)  
Limit: FCC Class B Conduction(QP) Humidity(%): 53.7%RH

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-----------------|------------------|-----------------|----------------|--------|
| 1   | 0.6403             | 34.54             | 11.55           | 46.09            | 56.00           | -9.91          | QP     |
| 2   | 0.6540             | 14.19             | 11.57           | 25.76            | 46.00           | -20.24         | AVG    |
| 3   | 1.1129             | 29.52             | 12.03           | 41.55            | 56.00           | -14.45         | QP     |
| 4   | 1.1310             | 22.06             | 12.03           | 34.09            | 46.00           | -11.91         | AVG    |
| 5   | 1.7115             | 26.55             | 12.27           | 38.82            | 56.00           | -17.18         | QP     |
| 6   | 1.7338             | 20.27             | 12.28           | 32.55            | 46.00           | -13.45         | AVG    |
| 7   | 6.3959             | 24.58             | 12.24           | 36.82            | 60.00           | -23.18         | QP     |
| 8   | 6.4904             | 14.26             | 12.24           | 26.50            | 50.00           | -23.50         | AVG    |
| 9   | 18.0330            | 32.26             | 13.08           | 45.34            | 60.00           | -14.66         | QP     |
| 10  | 18.2941            | 13.84             | 13.05           | 26.89            | 50.00           | -23.11         | AVG    |
| 11  | 22.2944            | 31.90             | 13.07           | 44.97            | 60.00           | -15.03         | QP     |
| 12  | 22.5511            | 16.61             | 13.10           | 29.71            | 50.00           | -20.29         | AVG    |

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

Corrected Reading: Reading Level + Correct = Result Level.

## 7. RADIATED EMISSION MEASUREMENT

### 7.1. Standard Applicable

According to FCC § 15.249: 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.

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) and 15.249 limit in the table below has to be followed.

| Fundamental Frequency | Field Strength of fundamental (millivolts/meter) | Field Strength of harmonics (microvolts/meter) |
|-----------------------|--|--|
| 902-928MHz            | 50   | 500  |
| 2400-2483.5MHz        | 50   | 500  |
| 5725-5875MHz          | 50   | 500  |
| 24.0-24.25GHz         | 250  | 2500   |

| 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                             |

According to RSS-210 B.10:

The field strength of fundamental and harmonic emissions, measured at 3 m, shall not exceed 50 mV/m and 0.5 mV/m respectively.

The field strength limits shall be measured using an average detector, except for the fundamental emission in the frequency band 902-928 MHz, which is based on measurements using an International Special Committee on Radio Interference (CISPR) quasi-peak detector.

Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emissions or to the general field strength limits listed in RSS-Gen, whichever is less stringent.

### 7.2. Instruments Setting

Please refer to equipment 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                            | 10 <sup>th</sup> carrier harmonic                 |
| RB / VB (Emission in restricted band)     | 1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average |
| RB / VB (Emission in non-restricted band) | 1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average |

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

### 7.3. Test Procedure

#### 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.

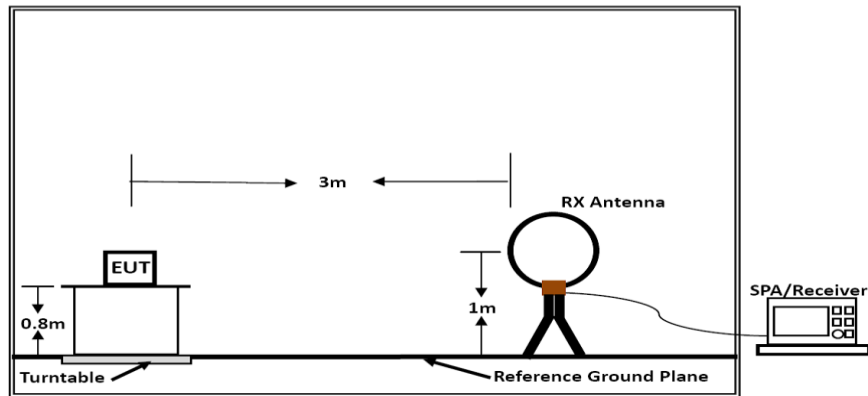
##### **Premeasurement:**

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

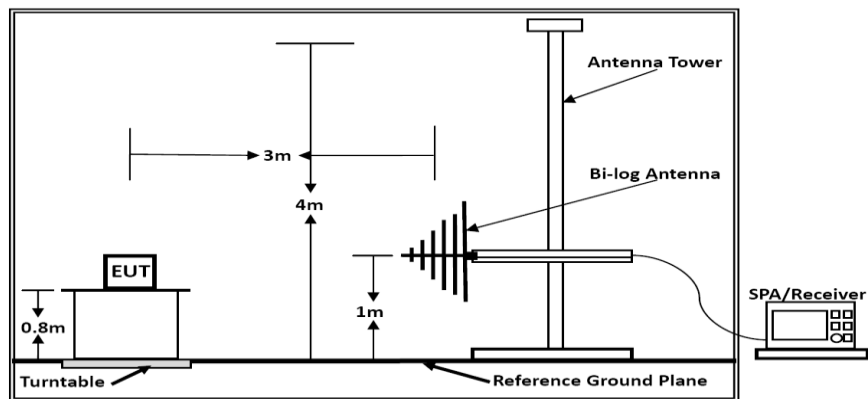
##### **Final measurement:**

- 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.

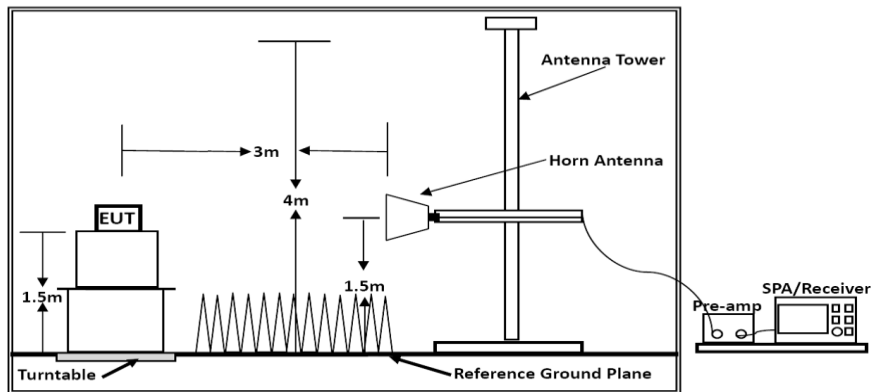
## 7.4. Block Diagram of Test Setup



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].

## 7.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

## 7.6. Test Results of Radiated Emissions (9 KHz~30 MHz)

|               |        |                |         |
|---------------|--------|----------------|---------|
| Temperature   | 21.6°C | Humidity       | 52.7%   |
| Test Engineer | Jay Li | Configurations | 2478MHz |

| Freq.<br>(MHz) | Level<br>(dBuV) | Over Limit<br>(dB) | Over Limit<br>(dBuV) | 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.

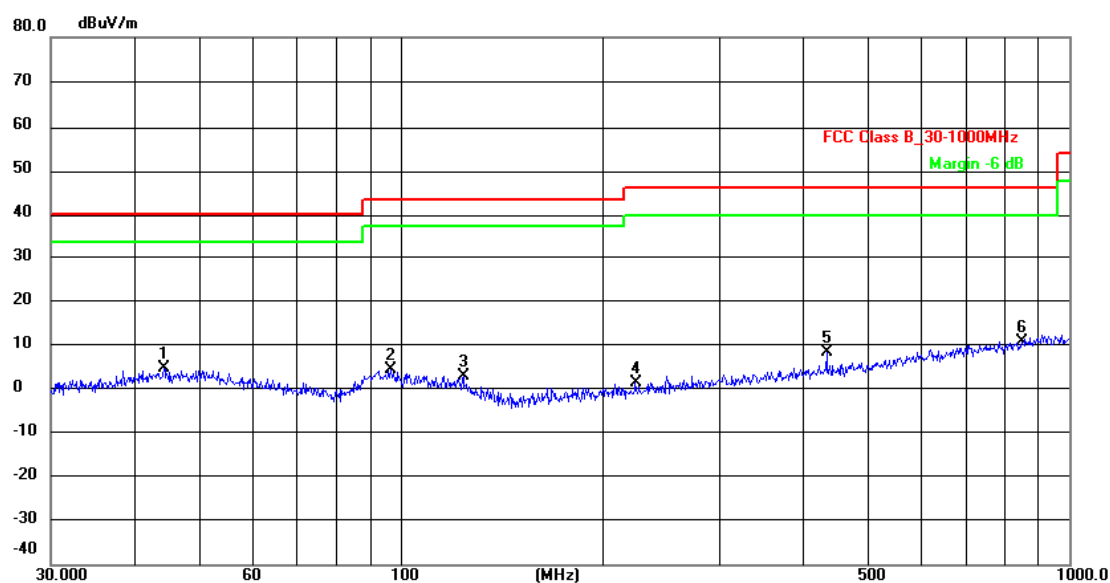
Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

## 7.7. Test Results of Radiated Emissions (30 MHz – 1000 MHz)

|               |        |                |         |
|---------------|--------|----------------|---------|
| Temperature   | 21.6°C | Humidity       | 52.7%   |
| Test Engineer | Jay Li | Configurations | 2478MHz |

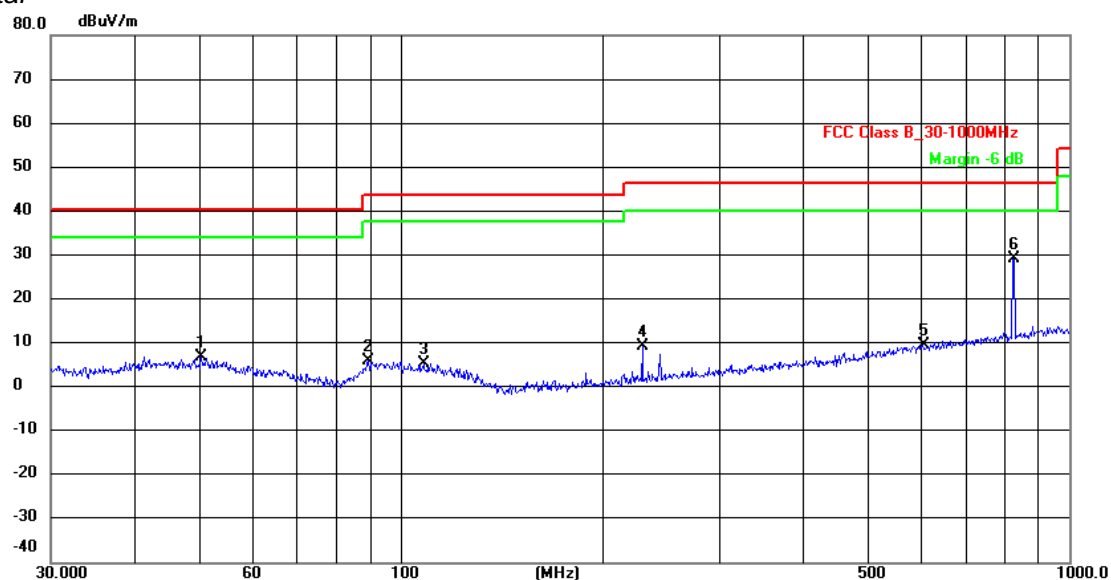
## Vertical



Limit: FCC Class B\_30-1000MHz Antenna:: Vertical Temperature(C):21.6(C)  
 Power Rating: AC 120V/60Hz Humidity(%):52.7%

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB/m) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. |
|-----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|------|
| 1   | 44.2752            | 25.61             | -20.98           | 4.63              | 40.00             | -35.37         | QP   |
| 2   | 96.7749            | 24.11             | -19.69           | 4.42              | 43.50             | -39.08         | QP   |
| 3   | 124.1330           | 25.50             | -22.44           | 3.06              | 43.50             | -40.44         | QP   |
| 4   | 224.5193           | 23.62             | -22.18           | 1.44              | 46.00             | -44.56         | QP   |
| 5   | 434.0651           | 27.05             | -18.54           | 8.51              | 46.00             | -37.49         | QP   |
| 6 * | 851.0353           | 24.20             | -13.26           | 10.94             | 46.00             | -35.06         | QP   |

## Horizontal



Limit: FCC Class B\_30-1000MHz Antenna::Horizontal Temperature(C):21.6(C)  
 Power Rating: AC 120V/60Hz Humidity(%):52.7%

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 50.4089         | 27.55          | -20.75        | 6.80           | 40.00          | -33.20      | QP   |
| 2   | 89.5899         | 27.15          | -21.13        | 6.02           | 43.50          | -37.48      | QP   |
| 3   | 108.2667        | 24.86          | -19.43        | 5.43           | 43.50          | -38.07      | QP   |
| 4   | 230.0985        | 31.27          | -22.09        | 9.18           | 46.00          | -36.82      | QP   |
| 5   | 603.5392        | 25.05          | -15.44        | 9.61           | 46.00          | -36.39      | QP   |
| 6 * | 827.4934        | 42.86          | -13.53        | 29.33          | 46.00          | -16.67      | QP   |

## Note:

1). Pre-scan all modes and recorded the worst case results in this report (GFSK).

2). Emission level (dBuV/m) = 20 log Emission level (uV/m).

3). Corrected Reading: Antenna Factor + Cable Loss = Factor

Factor + Reading Level = Level.

Margin = Limit - Level

## 7.8. Results for Radiated Emissions (1 – 26 GHz)

|               |        |                |         |
|---------------|--------|----------------|---------|
| Temperature   | 21.6°C | Humidity       | 52.7%   |
| Test Engineer | Jay Li | Configurations | 2478MHz |

| Freq. MHz | Reading Level dBuV | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark  | Pol.       |
|-----------|--------------------|---------------|----------------|----------------|-------------|---------|------------|
| 2478.00   | 105.43             | -4.82         | 100.61         | 114.00         | -13.39      | Peak    | Horizontal |
| 2478.00   | 74.03              | -4.84         | 69.19          | 94.00          | -24.81      | Average | Horizontal |
| 2478.00   | 104.42             | -4.83         | 99.59          | 114.00         | -14.41      | Peak    | Vertical   |
| 2478.00   | 76.23              | -4.82         | 71.41          | 94.00          | -22.59      | Average | Vertical   |

Notes:

*Corrected Reading: Antenna Factor + Cable Loss = Factor*

*Factor + Reading Level = Level.*

*Margin = Limit - Level*

| 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.       |
|-----------|--------------------|----------------|--------------|--------------|-----------------|--------------|-----------|---------|------------|
| 4956.00   | 46.60              | 33.06          | 35.04        | 3.94         | 48.56           | 74.00        | -25.44    | Peak    | Horizontal |
| 4956.00   | 34.92              | 33.06          | 35.04        | 3.94         | 36.88           | 54.00        | -17.12    | Average | Horizontal |
| 4956.00   | 47.45              | 33.06          | 35.04        | 3.94         | 49.41           | 74.00        | -24.59    | Peak    | Vertical   |
| 4956.00   | 30.94              | 33.06          | 35.04        | 3.94         | 32.90           | 54.00        | -21.10    | Average | Vertical   |

Notes:

1). Measuring frequencies from 9 KHz - 10<sup>th</sup> harmonic (ex. 26GHz), No emission found between lowest internal used/generated frequency to 30 MHz.

2). Radiated emissions measured in frequency range from 9 KHz - 10<sup>th</sup> harmonic (ex. 26GHz) were made with an instrument using Peak detector mode.

3). 18~25 GHz at least have 20dB margin. No recording in the test report.

4). Corrected Reading: Ant.Fac. + Cab.Loss + Reading Level - Pre.Fac. = Measured Level.

*Margin = Limit - Measured Level*

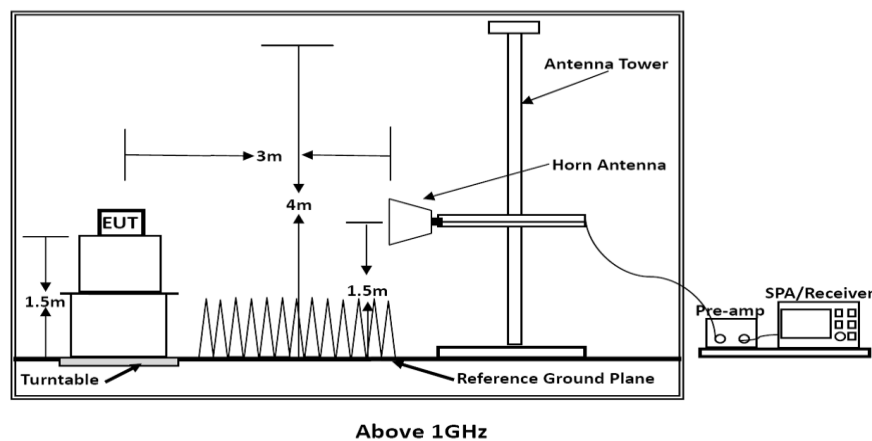
## 8. RESULTS FOR BAND EDGE TESTING

### 8.1. Standard Applicable

According to FCC §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.

According to RSS-210 B.10 (b): Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emissions or to the general field strength limits listed in RSS-Gen, whichever is less stringent.

### 8.2. Test Setup Layout



### 8.3. Measuring Instruments and Setting

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

### 8.4. Test Procedures

#### 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.

**8.5. Measuring Instruments and Setting**

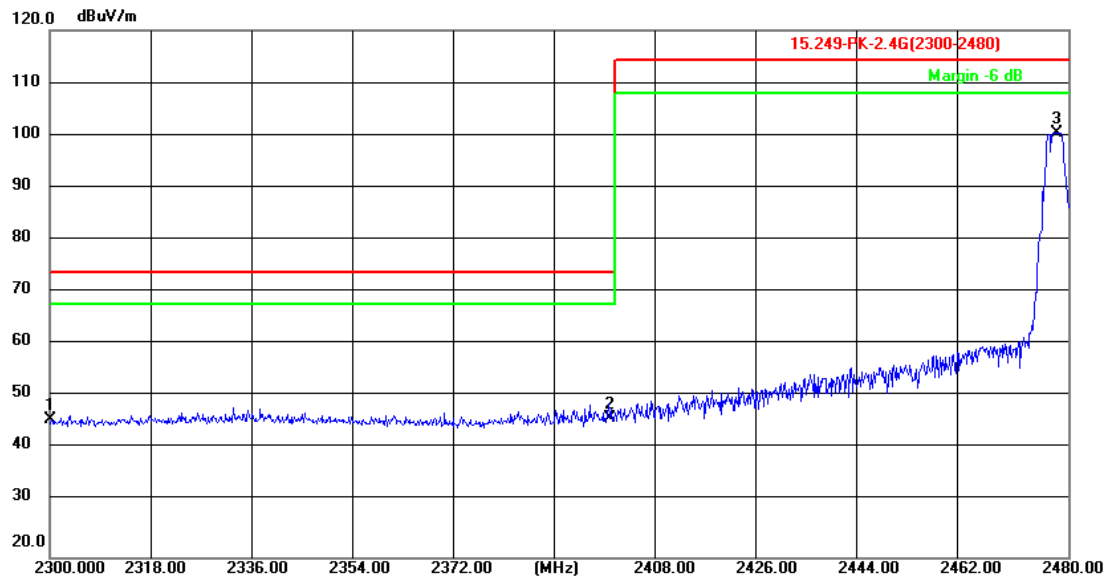
|               |        |          |       |
|---------------|--------|----------|-------|
| Temperature   | 21.6°C | Humidity | 52.7% |
| Test Engineer | Jay Li |          |       |

**PASS****Remark:**

1. The other emission levels were very low against the limit.
2. The average measurement was not performed when the peak measured data under the limit of average detection.
3. Detector AV is setting spectrum/receiver. RBW=1MHz/VBW=100Hz/Sweep time=Auto/Detector=Peak;
4. Please refer to following test plots;



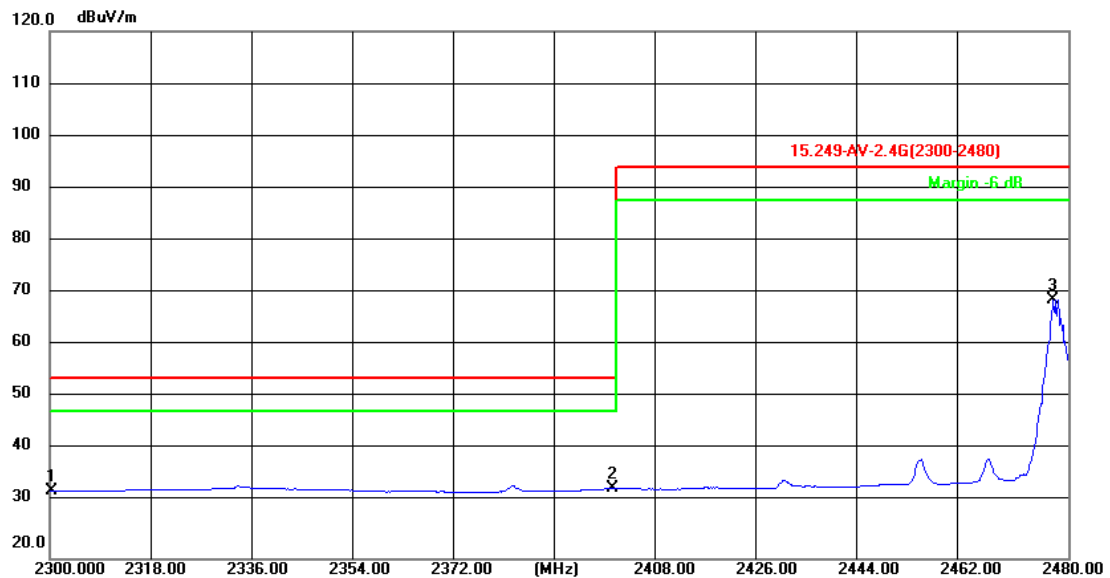
## Horizontal-Peak



Limit: 15.249-PK-2.4G(2300-2480) Antenna::Horizontal Temperature(C):21.6(C)  
Power Rating: AC 120V/60Hz Humidity(%):52.7%

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 2300.000        | 52.78          | -6.56         | 46.22          | 74.00          | -27.78      | peak |
| 2   | 2399.000        | 52.75          | -6.31         | 46.44          | 74.00          | -27.56      | peak |
| 3 * | 2478.020        | 105.43         | -4.82         | 100.61         | 114.00         | -13.39      | peak |

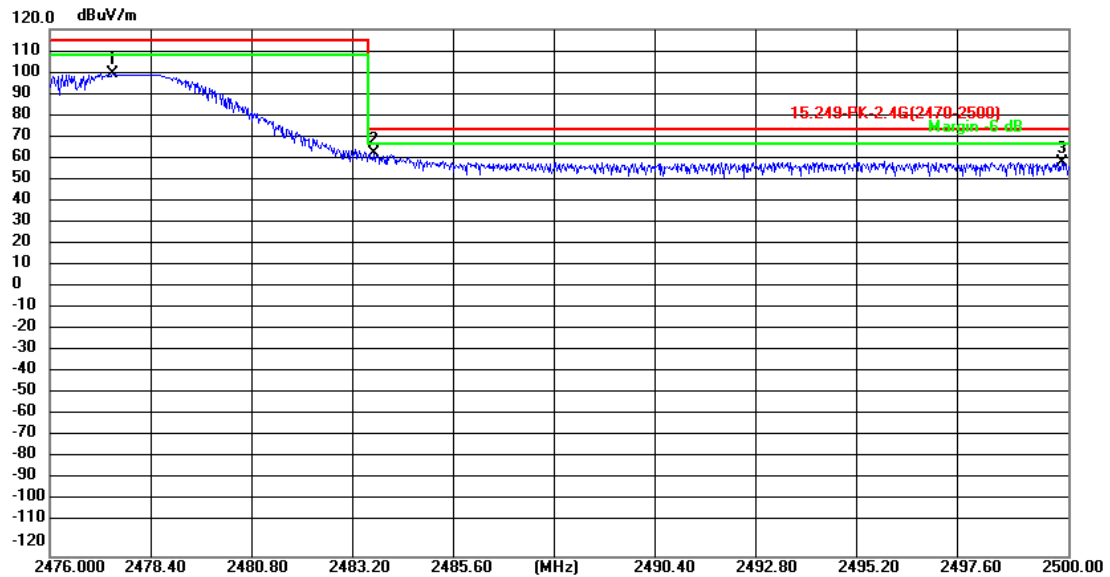
## Horizontal-AVG



Limit: 15.249-AV-2.4G(2300-2480) Antenna::Horizontal Temperature(C):21.6(C)  
Power Rating: AC 120V/60Hz Humidity(%):52.7%

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 2300.360        | 39.59          | -6.56         | 33.03          | 54.00          | -20.97      | AVG  |
| 2 * | 2399.540        | 39.74          | -6.31         | 33.43          | 54.00          | -20.57      | AVG  |
| 3   | 2477.300        | 74.03          | -4.84         | 69.19          | 94.00          | -24.81      | AVG  |

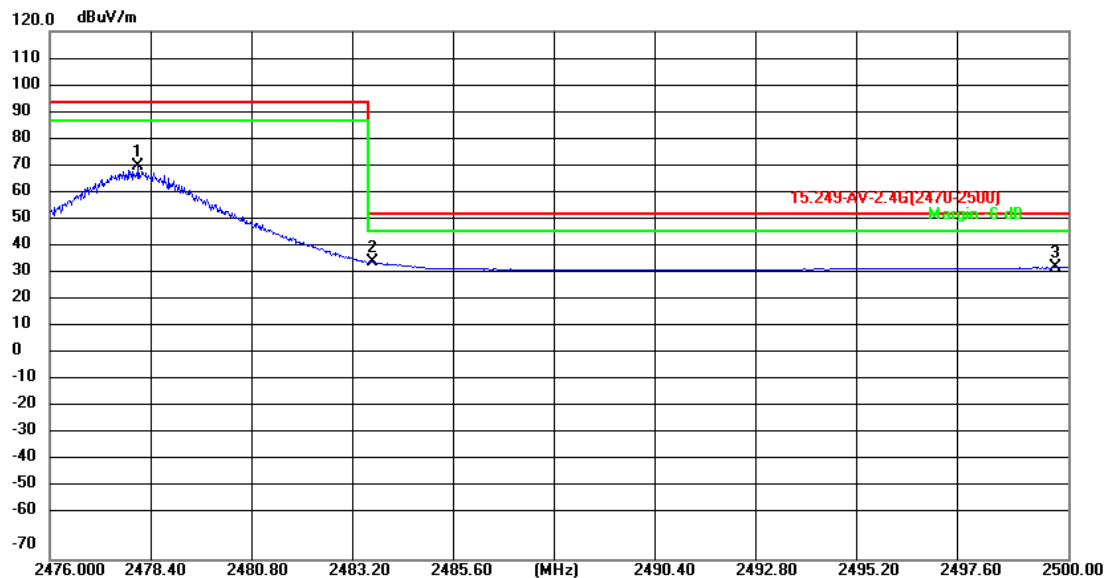
## Vertical-Peak



Limit: 15.249-PK-2.4G(2470-2500) Antenna:: Vertical Temperature(C):21.6(C)  
Power Rating: AC 120V/60Hz Humidity(%):52.7%

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 2477.488        | 104.42         | -4.83         | 99.59          | 114.00         | -14.41      | peak |
| 2 * | 2483.632        | 68.04          | -4.71         | 63.33          | 74.00          | -10.67      | peak |
| 3   | 2499.856        | 63.87          | -4.41         | 59.46          | 74.00          | -14.54      | peak |

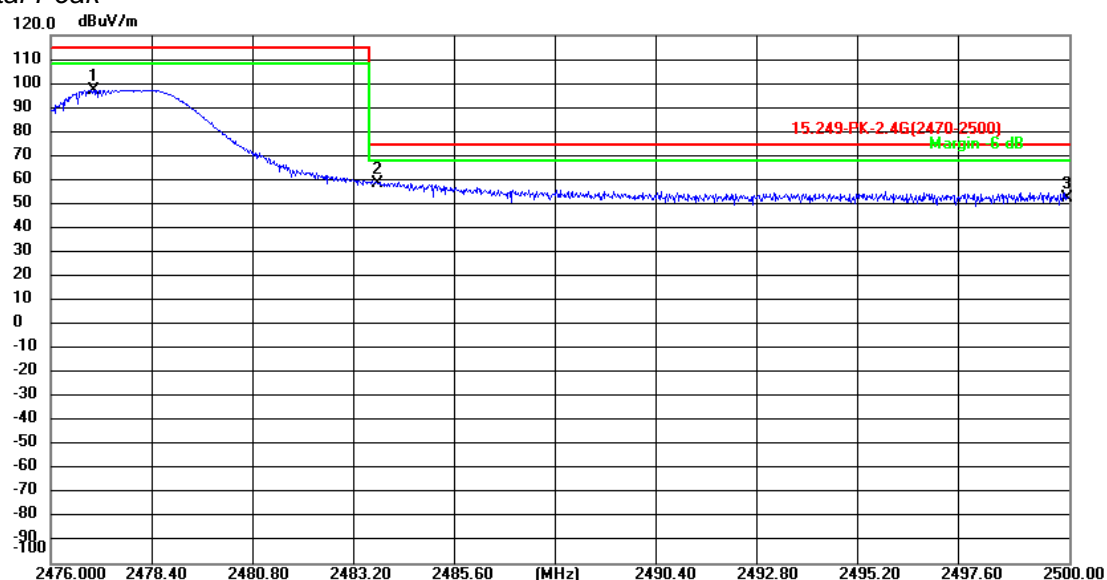
## Vertical-AVG



Limit: 15.249-AV-2.4G(2470-2500) Antenna:: Vertical Temperature(C):21.6(C)  
Power Rating: AC 120V/60Hz Humidity(%):52.7%

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 2478.088        | 76.23          | -4.82         | 71.41          | 94.00          | -22.59      | AVG  |
| 2 * | 2483.608        | 41.74          | -4.71         | 37.03          | 54.00          | -16.97      | AVG  |
| 3   | 2499.688        | 39.51          | -4.42         | 35.09          | 54.00          | -18.91      | AVG  |

## Horizontal-Peak



Limit: 15.249-PK-2.4G(2470-2500)

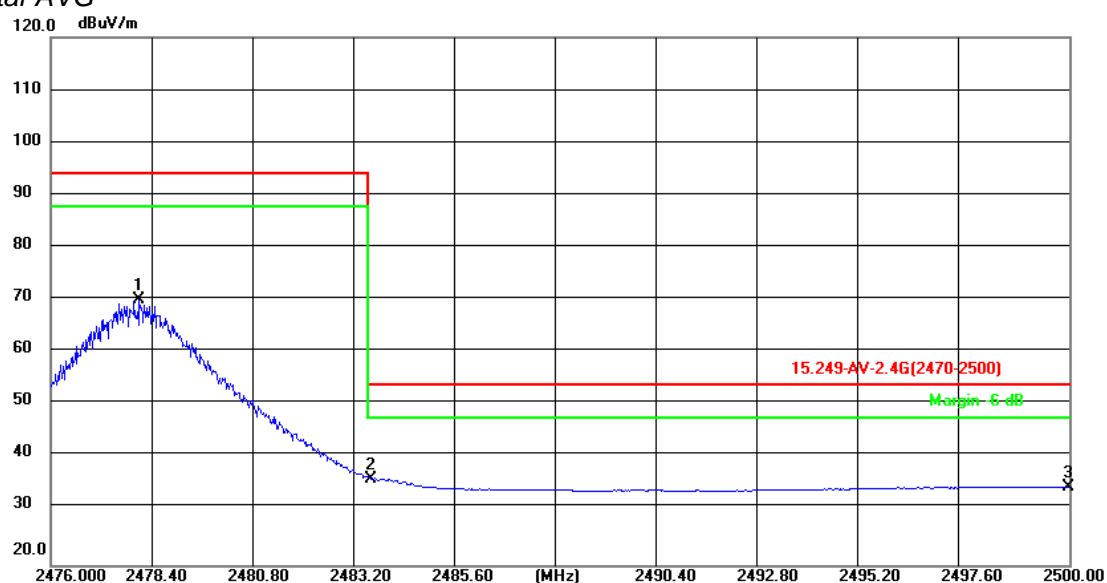
Antenna::Horizontal Temperature(C):21.6(C)

Power Rating: AC 120V/60Hz

Humidity(%):52.7%

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 2477.008        | 102.11         | -4.84         | 97.27          | 114.00         | -16.73      | peak |
| 2 * | 2483.704        | 63.22          | -4.71         | 58.51          | 74.00          | -15.49      | peak |
| 3   | 2499.952        | 56.93          | -4.41         | 52.52          | 74.00          | -21.48      | peak |

## Horizontal-AVG



Limit: 15.249-AV-2.4G(2470-2500)

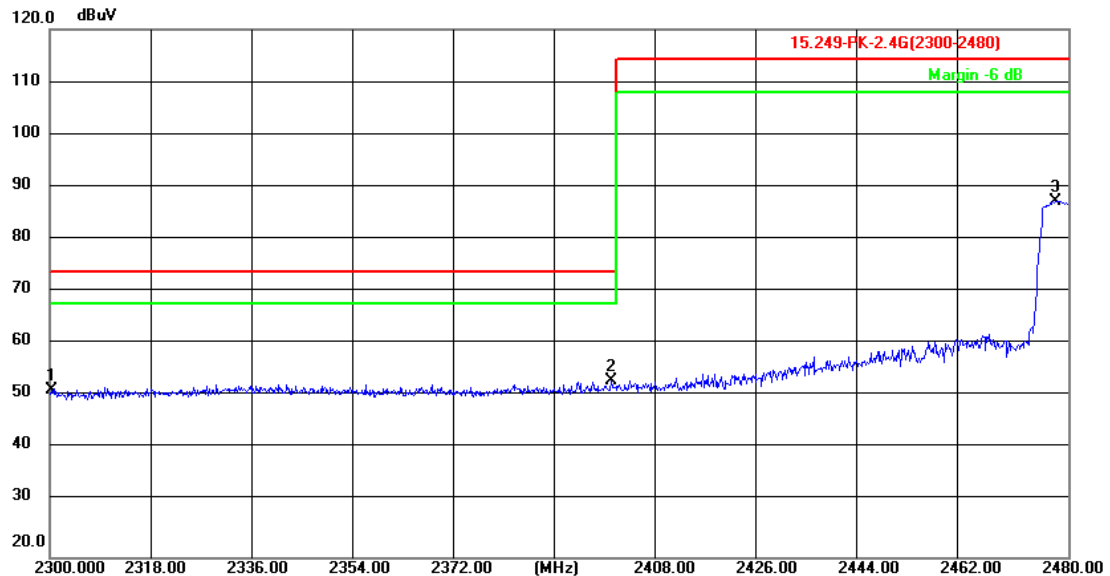
Antenna::Horizontal Temperature(C):21.6(C)

Power Rating: AC 120V/60Hz

Humidity(%):52.7%

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 2478.088        | 75.11          | -4.82         | 70.29          | 94.00          | -23.71      | AVG  |
| 2 * | 2483.536        | 41.15          | -4.71         | 36.44          | 54.00          | -17.56      | AVG  |
| 3   | 2499.976        | 39.42          | -4.41         | 35.01          | 54.00          | -18.99      | AVG  |

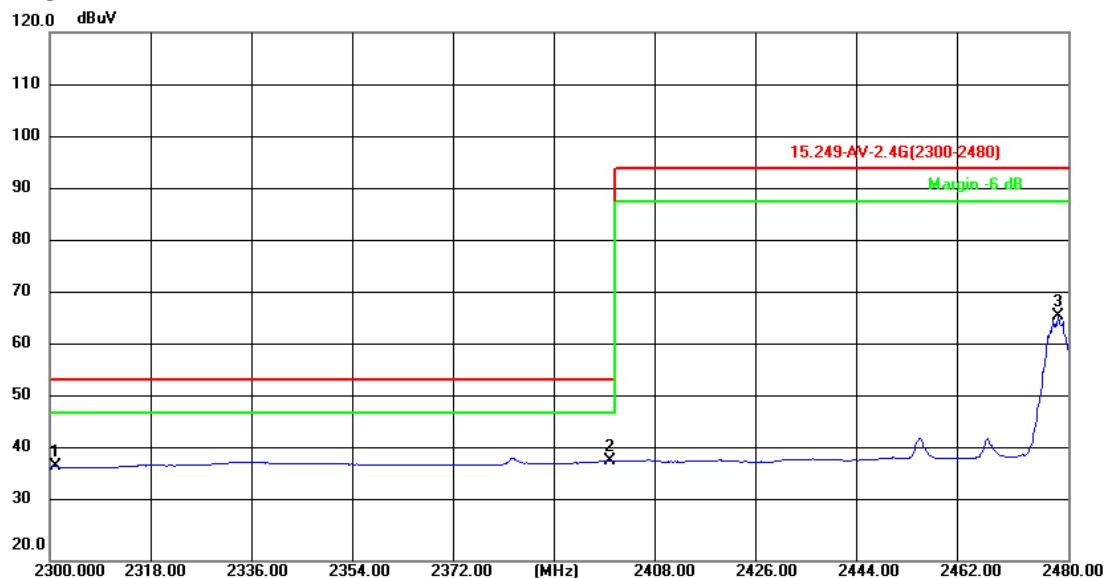
## Vertical-Peak



Limit: 15.249-PK-2.4G(2300-2480) Antenna::Vertical Temperature(C):21.6(C)  
Power Rating: AC 120V/60Hz Humidity(%):52.7%

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Det. |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|------|
| 1   | 2300.360        | 52.45          | -0.78       | 51.67        | 74.00        | -22.33      | peak |
| 2 * | 2399.360        | 53.29          | 0.31        | 53.60        | 74.00        | -20.40      | peak |
| 3   | 2477.840        | 86.41          | 1.12        | 87.53        | 114.00       | -26.47      | peak |

## Vertical-AVG



Limit: 15.249-AV-2.4G(2300-2480) Antenna::Vertical Temperature(C):21.6(C)  
Power Rating: AC 120V/60Hz Humidity(%):52.7%

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Det. |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|------|
| 1   | 2301.080        | 38.61          | -0.77       | 37.84        | 54.00        | -16.16      | AVG  |
| 2 * | 2399.000        | 38.71          | 0.30        | 39.01        | 54.00        | -14.99      | AVG  |
| 3   | 2478.200        | 65.24          | 1.12        | 66.36        | 94.00        | -27.64      | AVG  |

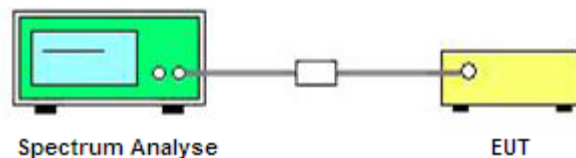
## 9. 99% OCCUPIED BANDWIDTH AND 20 DB BANDWIDTH MEASUREMENT

### 9.1. Standard Applicable

According to §15.215(c) and RSS-Gen section 6.7 “The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.”

In some cases, the “x dB bandwidth” is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum in band power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

### 9.2. Block Diagram of Test Setup



### 9.3. Test Procedure

Use the following spectrum analyzer settings:

Span = 5MHz

RBW = 30 KHz

VBW = 100 KHz

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth of the emission. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

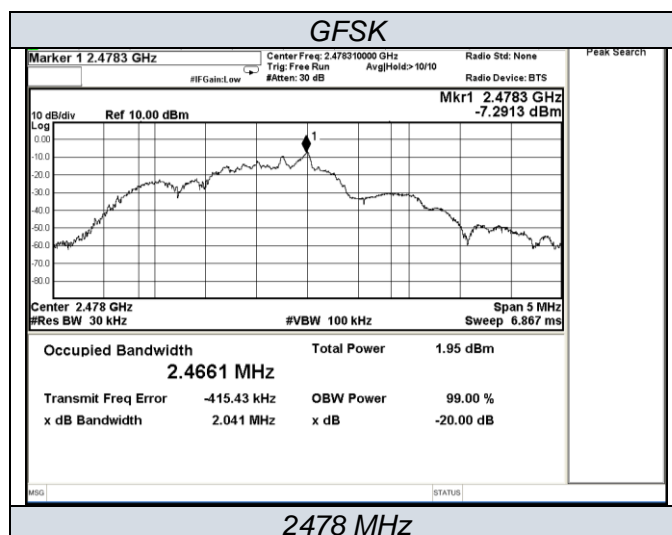
### 9.4. Test Results

|               |        |          |     |
|---------------|--------|----------|-----|
| Temperature   | 25°C   | Humidity | 50% |
| Test Engineer | Jay Li |          |     |

| Test Result of 99% and 20dB Bandwidth Measurement |                         |                        |                |
|---|-------------------------|------------------------|----------------|
| Test Frequency<br>(MHz)                           | 20dB Bandwidth<br>(MHz) | 99% Bandwidth<br>(MHz) | Limit<br>(MHz) |
| 2478  | 2.041                   | 2.466                  | Non-Specified  |

Remark:

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



## 10. LIST OF MEASURING EQUIPMENT

| Item | Equipment                | Manufacturer   | Model No.    | Serial No.      | Last Cal.  | Next Cal.  |
|------|--------------------------|----------------|--------------|-----------------|------------|------------|
| 1    | Power Meter              | R&S            | NRVS         | 100444          | 2021-06-22 | 2022-06-21 |
| 2    | Power Sensor             | R&S            | NRV-Z81      | 100458          | 2021-06-22 | 2022-06-21 |
| 3    | Power Sensor             | R&S            | NRV-Z32      | 10057           | 2021-06-22 | 2022-06-21 |
| 4    | Test Software            | Tonscend       | JS1120-2     | /               | N/A        | N/A        |
| 5    | RF Control Unit          | Tonscend       | JS0806-2     | N/A             | 2021-06-22 | 2022-06-21 |
| 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      | 2021-06-22 | 2022-06-21 |
| 11   | 3m Semi Anechoic Chamber | SIDT FRANKONIA | SAC-3M       | 03CH03-HY       | 2021-06-22 | 2022-06-21 |
| 12   | Active Loop Antenna      | SCHWARZBECK    | FMZB 1519B   | 00005           | 2018-07-26 | 2021-07-25 |
| 13   | By-log Antenna           | SCHWARZBECK    | VULB9163     | 9163-470        | 2018-07-26 | 2021-07-25 |
| 14   | Horn Antenna             | SCHWARZBECK    | BBHA 9120D   | 9120D-1925      | 2018-07-02 | 2021-07-01 |
| 15   | Broadband Horn Antenna   | SCHWARZBECK    | BBHA 9170    | 791             | 2018-09-21 | 2021-09-20 |
| 16   | Broadband Preamplifier   | SCHWARZBECK    | BBV9745      | 9719-025        | 2021-06-22 | 2022-06-21 |
| 17   | EMI Test Receiver        | R&S            | ESR 7        | 101181          | 2021-06-22 | 2022-06-21 |
| 18   | RS SPECTRUM ANALYZER     | R&S            | FSP40        | 100503          | 2020-11-14 | 2021-11-13 |
| 19   | Broadband Preamplifier   | /              | BP-01M18G    | P190501         | 2021-06-22 | 2022-06-21 |
| 20   | RF Cable-R03m            | Jye Bao        | RG142        | CB021           | 2021-06-22 | 2022-06-21 |
| 21   | RF Cable-HIGH            | SUHNER         | SUCOFLEX 106 | 03CH03-HY       | 2021-06-22 | 2022-06-21 |
| 22   | 6dB Attenuator           | /              | 100W/6dB     | 1172040         | 2021-06-22 | 2022-06-21 |
| 23   | 3dB Attenuator           | /              | 2N-3dB       | /               | 2021-06-22 | 2022-06-21 |
| 24   | EMI Test Receiver        | R&S            | ESPI         | 101840          | 2021-06-22 | 2022-06-21 |
| 25   | Artificial Mains         | R&S            | ENV216       | 101288          | 2021-06-22 | 2022-06-21 |
| 26   | 10dB Attenuator          | SCHWARZBECK    | MTS-IMP-136  | 261115-001-0032 | 2021-06-22 | 2022-06-21 |

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

## **11. TEST SETUP PHOTOGRAPHS OF THE EUT**

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

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

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

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

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

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