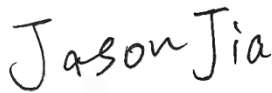


# FCC Test Report

APPLICANT : Quectel Wireless Solutions Co., Ltd.  
EQUIPMENT : Wi-Fi & Bluetooth Module  
BRAND NAME : QUECTEL  
MODEL NAME : FCS851U  
FCC ID : XMR2023FCS851U  
STANDARD : 47 CFR Part 15 Subpart B  
CLASSIFICATION : Certification  
TEST DATE(S) : Aug. 04, 2023 ~ Aug. 10, 2023

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.



Approved by: Jason Jia



**Sporton International Inc. (Kunshan)**

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300  
People's Republic of China**



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## REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE  |
|------------|---------|-------------------------|--------------|
| FC371207   | Rev. 01 | Initial issue of report | May 23, 2024 |
|            |         |                         |              |
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|            |         |                         |              |
|            |         |                         |              |

## SUMMARY OF TEST RESULT

| Report Section | FCC Rule | Description           | Limit           | Result | Remark                                  |
|----------------|----------|-----------------------|-----------------|--------|---|
| 3.1            | 15.107   | AC Conducted Emission | < 15.107 limits | PASS   | Under limit<br>5.78 dB at<br>0.576 MHz  |
| 3.2            | 15.109   | Radiated Emission     | < 15.109 limits | PASS   | Under limit<br>8.76 dB at<br>41.640 MHz |

**Conformity Assessment Condition:**

The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account. Please refer to each test results in the section "Measurement Uncertainty".

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



## 1. General Description

### 1.1. Applicant

**Quectel Wireless Solutions Co., Ltd.**

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China

### 1.2. Manufacturer

**Quectel Wireless Solutions Co., Ltd.**

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China

### 1.3. Product Feature of Equipment Under Test

| Product Feature                 |   |
|---------------------------------|---|
| Equipment                       | Wi-Fi & Bluetooth Module  |
| Brand Name                      | QUECTEL   |
| Model Name                      | FCS851U   |
| FCC ID                          | XMR2023FCS851U  |
| EUT supports Radios application | WLAN 2.4GHz 802.11b/g/n HT20/HT40<br>WLAN 5GHz 802.11a/n HT20/HT40<br>WLAN 5GHz 802.11ac VHT20/VHT40/VHT80<br>Bluetooth BR/EDR/LE |
| SN Code                         | Conduction: E1N23FH06000133<br>Radiation: E1N23FH06000076   |
| HW Version                      | R1.0  |
| SW Version                      | N/A   |
| EUT Stage                       | Identical Prototype   |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

## 1.4. Product Specification of Equipment Under Test

| Standards-related Product Specification |  |
|---|--|
| <b>Tx Frequency</b>                     | 802.11b/g/n: 2400 MHz ~ 2483.5 MHz<br>802.11a/n/ac: 5150 MHz ~ 5250 MHz;<br>5250 MHz ~ 5350 MHz;<br>5470 MHz ~ 5725 MHz<br>5725 MHz ~ 5850 MHz<br>Bluetooth: 2400 MHz ~ 2483.5 MHz   |
| <b>Rx Frequency</b>                     | 802.11b/g/n: 2400 MHz ~ 2483.5 MHz<br>802.11a/n/ac: 5150 MHz ~ 5250 MHz;<br>5250 MHz ~ 5350 MHz;<br>5470 MHz ~ 5725 MHz<br>5725 MHz ~ 5850 MHz<br>Bluetooth: 2400 MHz ~ 2483.5 MHz   |
| <b>Antenna Type</b>                     | WLAN: Dipole Antenna<br>Bluetooth: Dipole Antenna  |
| <b>Type of Modulation</b>               | 802.11b: DSSS (DBPSK / DQPSK / CCK)<br>802.11a/g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)<br>802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)<br>Bluetooth LE : GFSK<br>Bluetooth (1Mbps) : GFSK<br>Bluetooth (2Mbps) : $\pi/4$ -DQPSK<br>Bluetooth (3Mbps) : 8-DPSK |

## 1.5. Modification of EUT

No modifications are made to the EUT during all test items.

## 1.6. Test Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

|                           |  |                            |                                       |
|---------------------------|--|----------------------------|---------------------------------------|
| <b>Test Firm</b>          | Sporton International Inc. (Kunshan)   |                            |                                       |
| <b>Test Site Location</b> | No. 1098, Pengxi North Road, Kunshan Economic Development Zone<br>Jiangsu Province 215300 People's Republic of China<br>TEL : +86-512-57900158 |                            |                                       |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>  | <b>FCC Designation No.</b> | <b>FCC Test Firm Registration No.</b> |
|                           | CO01-KS<br>03CH02-KS   | CN1257                     | 314309                                |

## 1.7. Test Software

| Item | Site      | Manufacturer | Name | Version       |
|------|-----------|--------------|------|---------------|
| 1.   | 03CH02-KS | AUDIX        | E3   | 6.2009-8-24a1 |
| 2.   | CO01-KS   | AUDIX        | E3   | 6.2009-8-24   |

## 1.8. Applicable Standards

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

- 47 CFR Part 15 Subpart B
- ANSI C63.4-2014

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.

## 2. Test Configuration of Equipment Under Test

### 2.1. Test Mode

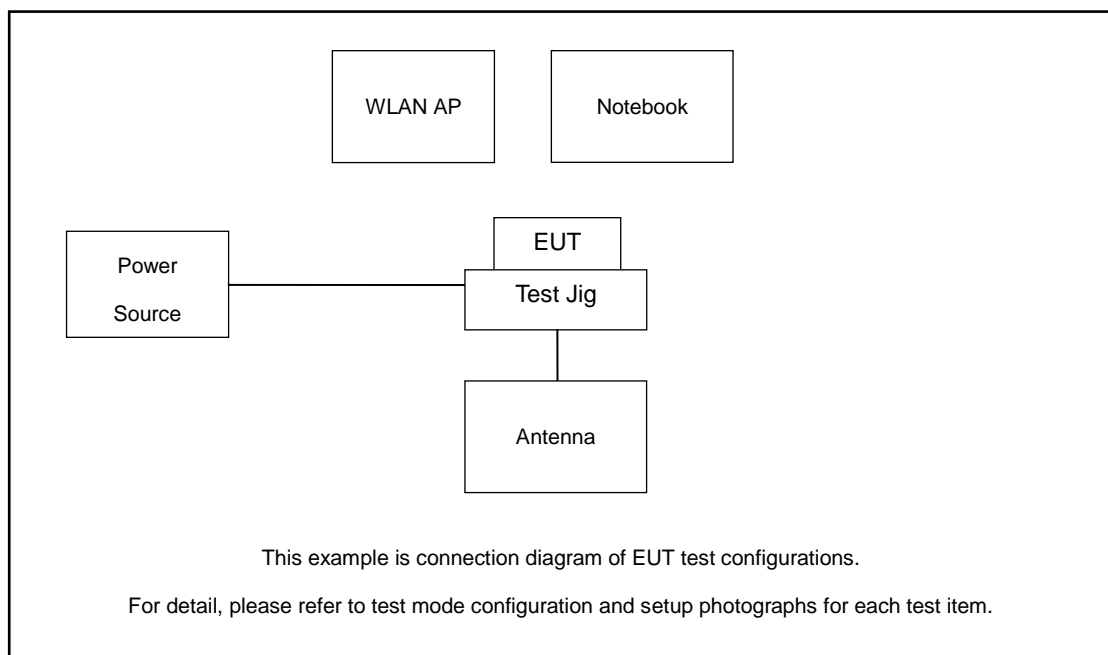
The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest frequency or to 40 GHz, whichever is lower).

| Test Items   | Function Type  |
|--|--|
| AC Conducted Emission  | Mode 1: WLAN (2.4G) Idle + Powered from Test Jig<br>Mode 2: WLAN (5G) Idle + Powered from Test Jig<br>Mode 3: Bluetooth Idle + Powered from Test Jig |
| Radiated Emissions   | Mode 1: WLAN (2.4G) Idle + Powered from Test Jig<br>Mode 2: WLAN (5G) Idle + Powered from Test Jig<br>Mode 3: Bluetooth Idle + Powered from Test Jig |
| <b>Remark:</b><br><br>1. The worst case of AC is mode 2; only the test data of this mode is reported.<br>2. The worst case of RE is mode 1; only the test data of this mode is reported. |  |



## 2.2.Connection Diagram of Test System



The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application

## 2.3. Support Unit used in test configuration and system

| Item | Equipment | Trade Name | Model Name | FCC ID        | Data Cable | Power Cord   |
|------|-----------|------------|------------|---------------|------------|--|
| 1.   | WLAN AP   | D-link     | DIR-655    | KA21R655B1    | N/A        | Unshielded,1.8m  |
| 2.   | WLAN AP   | TP-Link    | TL-WDR5600 | N/A           | N/A        | Unshielded,1.8m  |
| 3.   | Notebook  | Lenovo     | G480       | QDS-BRCM1050I | N/A        | AC I/P:<br>Unshielded, 1.8 m<br>DC O/P:<br>Shielded, 1.8 m |
| 4.   | Antenna   | N/A        | N/A        | N/A           | N/A        | N/A  |
| 5.   | Adapter   | N/A        | N/A        | N/A           | N/A        | N/A  |
| 6.   | Test Jig  | N/A        | N/A        | N/A           | N/A        | N/A  |

## 2.4. EUT Operation Test Setup

At the same time, the EUT was attached to the WLAN AP, and the following programs installed in the EUT were programmed during the test.

### 3. Test Result

#### 3.1. Test of AC Conducted Emission Measurement

##### 3.1.1 Limits of AC Conducted Emission

For equipment that 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 the limits in the following table.

<Class B Limit>

| Frequency of emission<br>(MHz) | Conducted limit (dBuV) |           |
|--------------------------------|------------------------|-----------|
|                                | Quasi-peak             | Average   |
| 0.15-0.5                       | 66 to 56*              | 56 to 46* |
| 0.5-5                          | 56                     | 46        |
| 5-30                           | 60                     | 50        |

\*Decreases with the logarithm of the frequency.

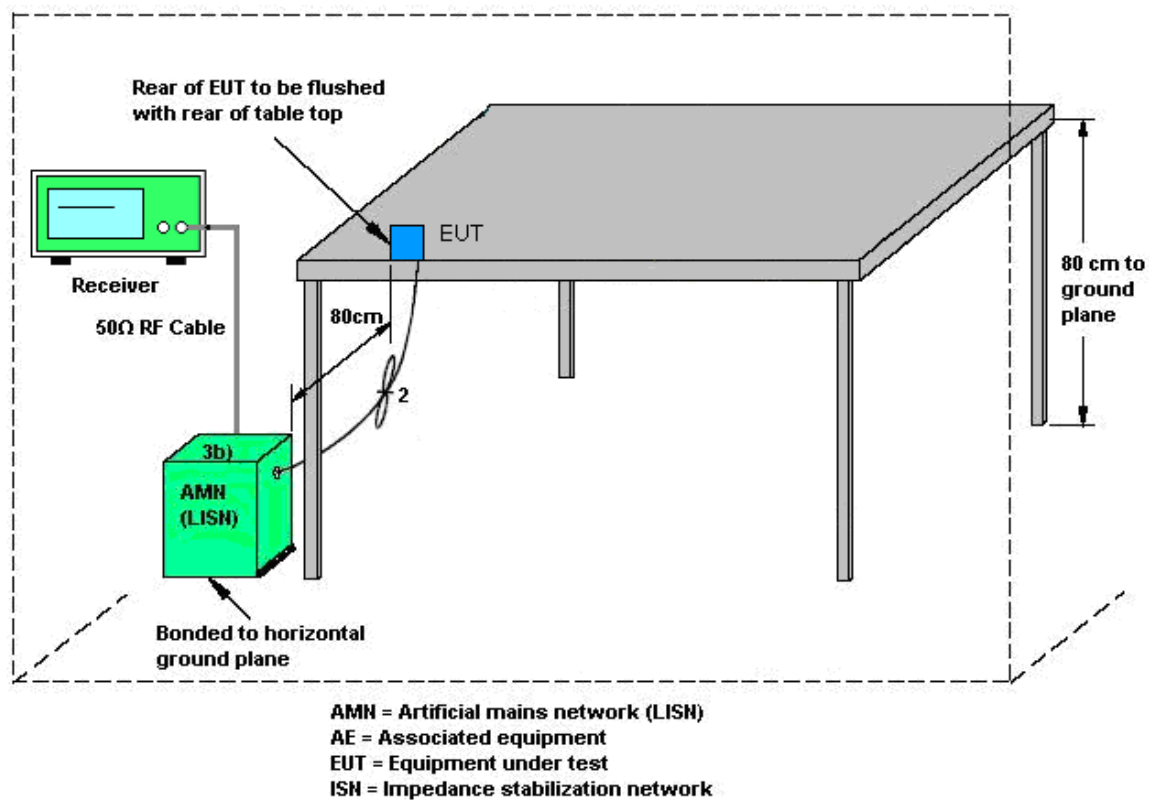
##### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

##### 3.1.3 Test Procedure

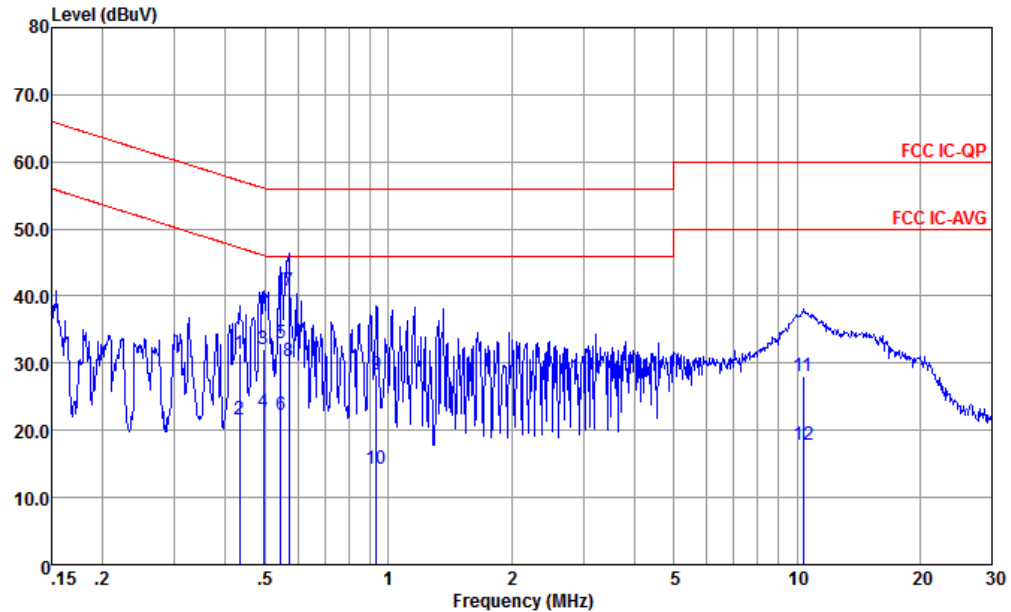
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

### 3.1.4 Test Setup



### 3.1.5 Test Result of AC Conducted Emission

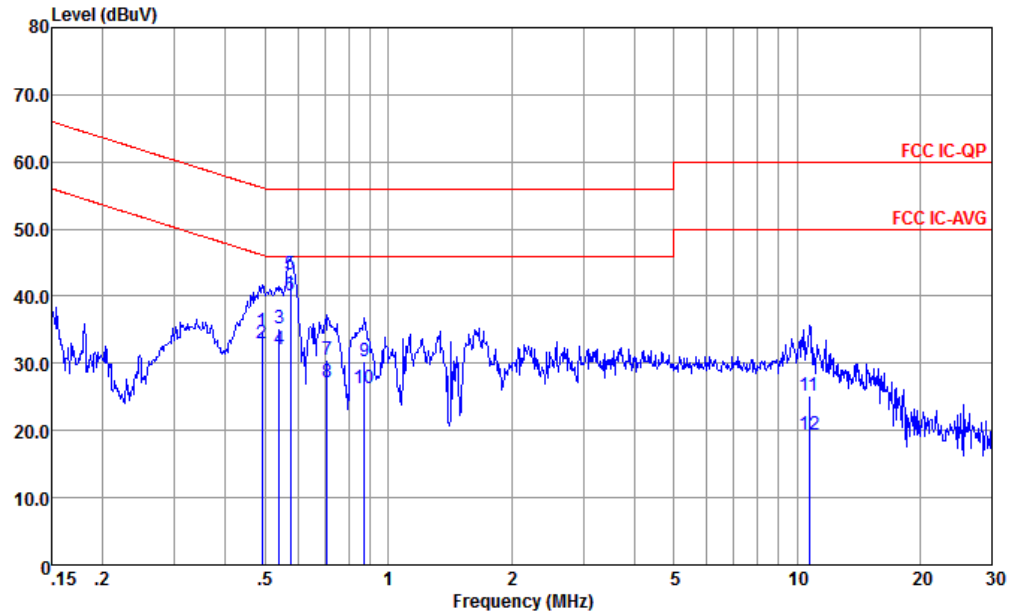
|                        |   |                            |             |
|------------------------|---|----------------------------|-------------|
| <b>Test Engineer :</b> | Amos Zhang  | <b>Temperature :</b>       | 25.3~26.2°C |
|                        |   | <b>Relative Humidity :</b> | 38~40%      |
| <b>Test Voltage :</b>  | 120Vac / 60Hz   | <b>Phase :</b>             | Line        |
| <b>Remark :</b>        | All emissions not reported here are more than 10 dB below the prescribed limit. |                            |             |



Site : CO01-KS  
Condition : FCC IC-QP LISN-060105-L 2023 LINE

|     | Freq   | Level | Over   | Limit | Read  | LISN   | Cable |         |
|-----|--------|-------|--------|-------|-------|--------|-------|---------|
|     | MHz    | dBuV  | Limit  | Line  | Level | Factor | Loss  | Remark  |
|     |        |       | dB     | dBuV  | dBuV  | dB     | dB    |         |
| 1   | 0.433  | 31.36 | -25.84 | 57.20 | 21.10 | -0.01  | 10.27 | QP      |
| 2   | 0.433  | 21.56 | -25.64 | 47.20 | 11.30 | -0.01  | 10.27 | Average |
| 3   | 0.494  | 32.09 | -24.01 | 56.10 | 21.91 | -0.03  | 10.21 | QP      |
| 4   | 0.494  | 22.69 | -23.41 | 46.10 | 12.51 | -0.03  | 10.21 | Average |
| 5   | 0.546  | 32.96 | -23.04 | 56.00 | 22.80 | -0.04  | 10.20 | QP      |
| 6   | 0.546  | 22.36 | -23.64 | 46.00 | 12.20 | -0.04  | 10.20 | Average |
| 7 * | 0.570  | 40.75 | -15.25 | 56.00 | 30.61 | -0.05  | 10.19 | QP      |
| 8   | 0.570  | 30.35 | -15.65 | 46.00 | 20.21 | -0.05  | 10.19 | Average |
| 9   | 0.933  | 28.22 | -27.78 | 56.00 | 18.19 | -0.09  | 10.12 | QP      |
| 10  | 0.933  | 14.22 | -31.78 | 46.00 | 4.19  | -0.09  | 10.12 | Average |
| 11  | 10.342 | 28.05 | -31.95 | 60.00 | 17.51 | -0.16  | 10.70 | QP      |
| 12  | 10.342 | 17.75 | -32.25 | 50.00 | 7.21  | -0.16  | 10.70 | Average |

|                        |   |                            |             |
|------------------------|---|----------------------------|-------------|
| <b>Test Engineer :</b> | Amos Zhang  | <b>Temperature :</b>       | 25.3~26.2°C |
|                        |   | <b>Relative Humidity :</b> | 38~40%      |
| <b>Test Voltage :</b>  | 120Vac / 60Hz   | <b>Phase :</b>             | Neutral     |
| <b>Remark :</b>        | All emissions not reported here are more than 10 dB below the prescribed limit. |                            |             |



Site : CO01-KS  
Condition : FCC IC-QP LISN-060105-N 2023 NEUTRAL

|     | Freq   | Level | Over   | Limit | Read  | LISN   | Cable |         |
|-----|--------|-------|--------|-------|-------|--------|-------|---------|
|     | MHz    | dBuV  | Limit  | Line  | Level | Factor | Loss  | Remark  |
|     |        |       | dB     | dBuV  | dBuV  | dB     | dB    |         |
| 1   | 0.491  | 34.75 | -21.39 | 56.14 | 24.60 | -0.07  | 10.22 | QP      |
| 2   | 0.491  | 33.05 | -13.09 | 46.14 | 22.90 | -0.07  | 10.22 | Average |
| 3   | 0.541  | 35.23 | -20.77 | 56.00 | 25.10 | -0.07  | 10.20 | QP      |
| 4   | 0.541  | 32.03 | -13.97 | 46.00 | 21.90 | -0.07  | 10.20 | Average |
| 5   | 0.576  | 43.32 | -12.68 | 56.00 | 33.20 | -0.07  | 10.19 | QP      |
| 6 * | 0.576  | 40.22 | -5.78  | 46.00 | 30.10 | -0.07  | 10.19 | Average |
| 7   | 0.708  | 30.59 | -25.41 | 56.00 | 20.50 | -0.07  | 10.16 | QP      |
| 8   | 0.708  | 27.29 | -18.71 | 46.00 | 17.20 | -0.07  | 10.16 | Average |
| 9   | 0.876  | 30.24 | -25.76 | 56.00 | 20.20 | -0.09  | 10.13 | QP      |
| 10  | 0.876  | 26.24 | -19.76 | 46.00 | 16.20 | -0.09  | 10.13 | Average |
| 11  | 10.733 | 25.09 | -34.91 | 60.00 | 14.49 | -0.18  | 10.78 | QP      |
| 12  | 10.733 | 19.49 | -30.51 | 50.00 | 8.89  | -0.18  | 10.78 | Average |

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)

## 3.2. Test of Radiated Emission Measurement

### 3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

**<Class B Limit>**

| Frequency<br>(MHz) | Field Strength<br>(microvolts/meter) | Measurement Distance<br>(meters) |
|--------------------|--------------------------------------|----------------------------------|
| 30 – 88            | 100                                  | 3                                |
| 88 – 216           | 150                                  | 3                                |
| 216 - 960          | 200                                  | 3                                |
| Above 960          | 500                                  | 3                                |

### 3.2.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

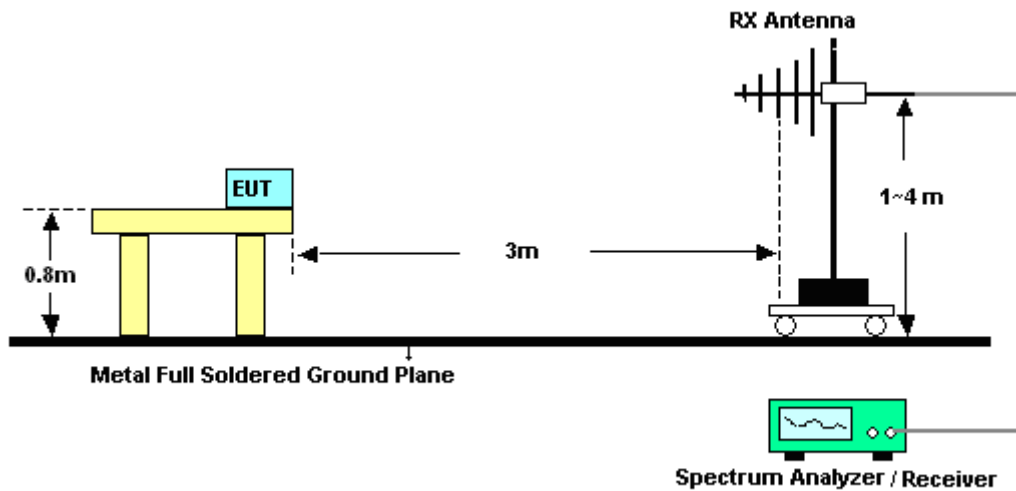
### 3.2.3. Test Procedures

1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
8. Emission level (dBμV/m) = 20 log Emission level (μV/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

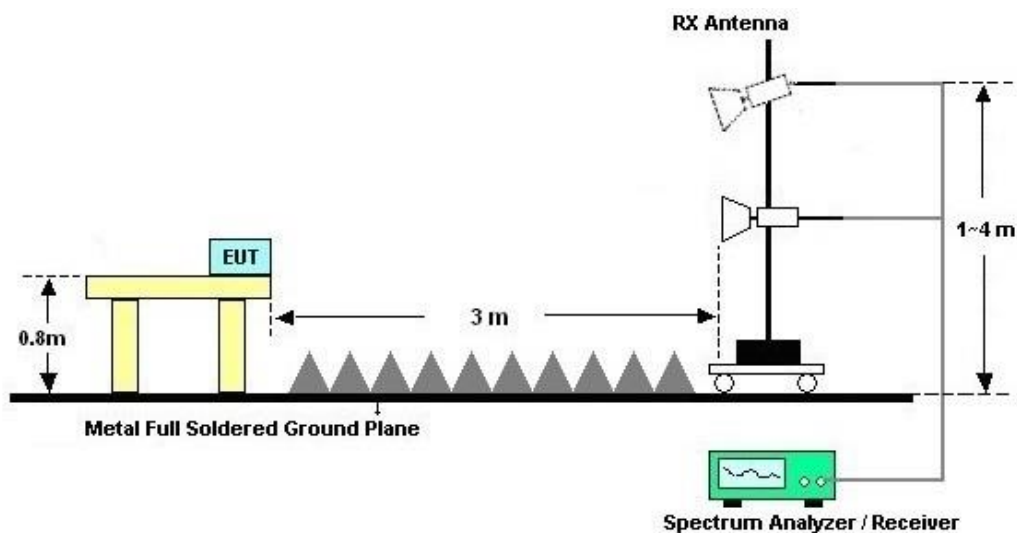
10. Exploratory radiated emissions testing of handheld and/or body-worn devices shall include rotation of the EUT through three orthogonal axes (X/Y/Z Plane) to determine the orientation (attitude) that maximizes the emissions.

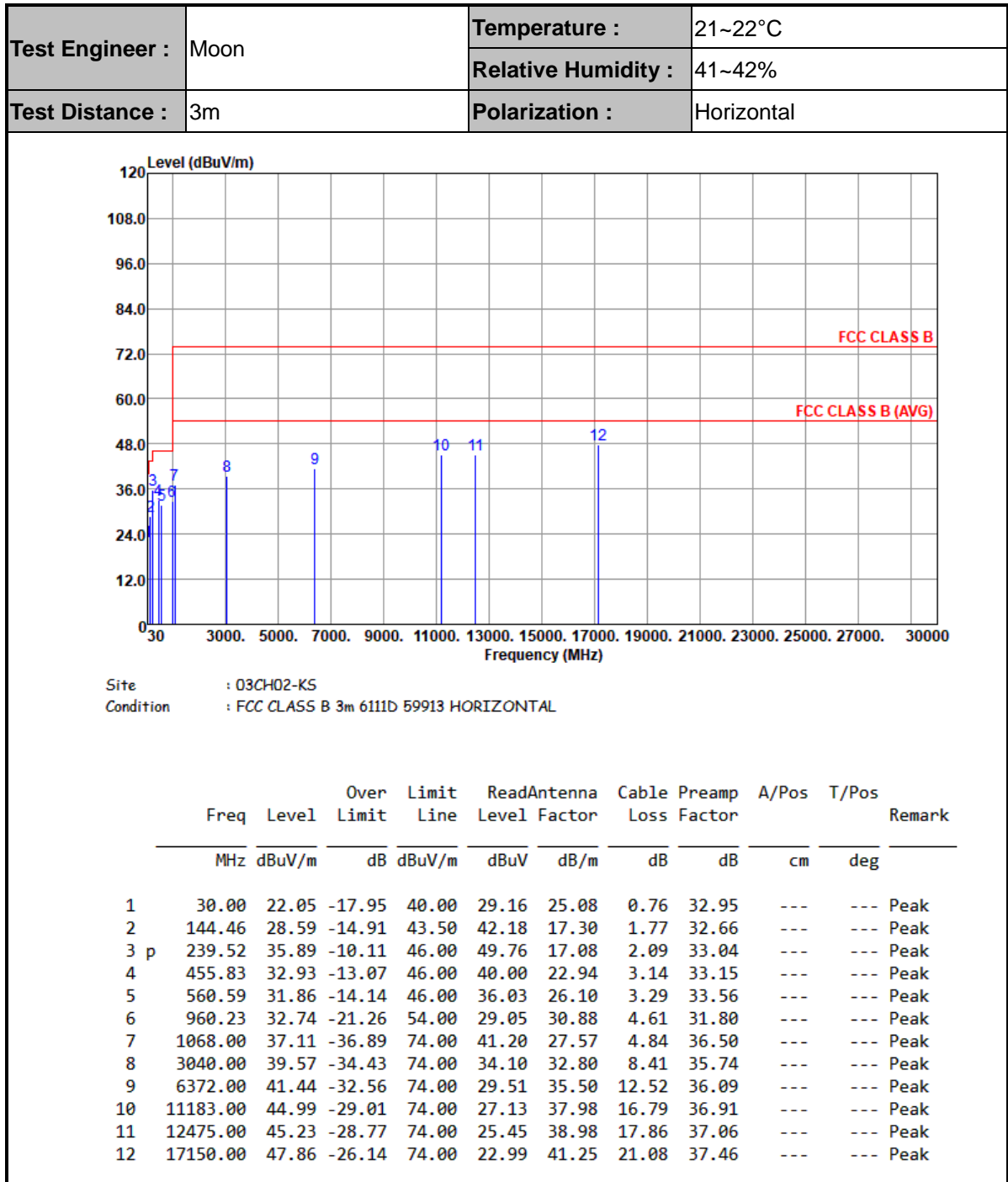
### 3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz

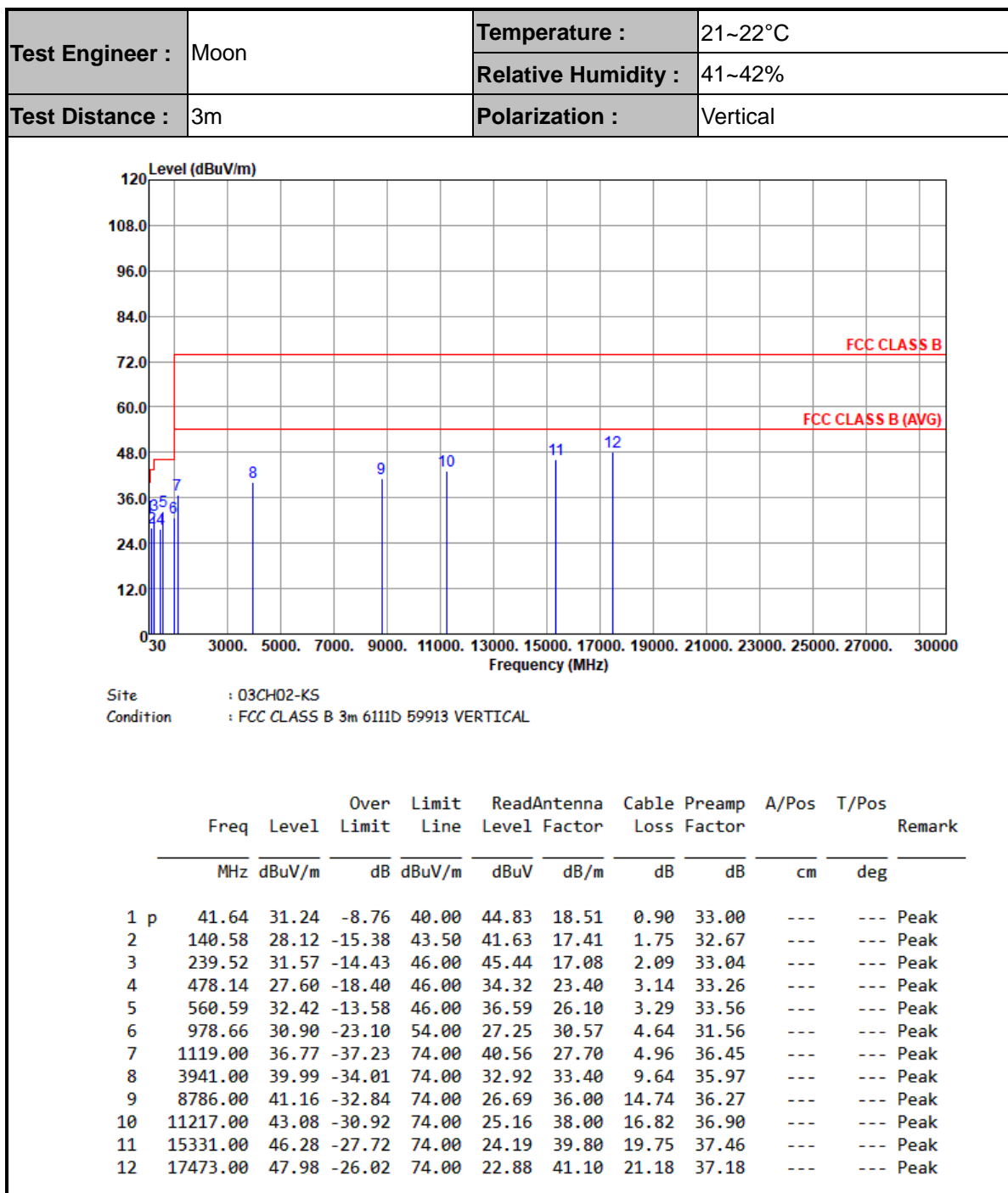


For radiated emissions above 1GHz



**3.2.5. Test Result of Radiated Emission**






Note:

- Level(dBμV/m) = Read Level(dBμV) + Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Factor(dB)
- Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)



## 4. List of Measuring Equipment

| Instrument                           | Manufacturer | Model No.  | Serial No.       | Characteristics            | Calibration Date | Test Date     | Due Date      | Remark                |
|--------------------------------------|--------------|------------|------------------|----------------------------|------------------|---------------|---------------|-----------------------|
| EMI Receiver                         | R&S          | ESCI7      | 100768           | 9kHz~7GHz;                 | May 16, 2023     | Aug. 10, 2023 | May 15, 2024  | Conduction (CO01-KS)  |
| AC LISN<br>(for auxiliary equipment) | MessTec      | AN3016     | 060103           | 9kHz~30MHz                 | Oct. 13, 2022    | Aug. 10, 2023 | Oct. 12, 2023 | Conduction (CO01-KS)  |
| AC LISN                              | MessTec      | AN3016     | 060105           | 9kHz~30MHz                 | May 16, 2023     | Aug. 10, 2023 | May 15, 2024  | Conduction (CO01-KS)  |
| AC Power Source                      | Chroma       | 61602      | ABP0000008<br>11 | AC 0V~300V,<br>45Hz~1000Hz | Oct. 12, 2022    | Aug. 10, 2023 | Oct. 11, 2023 | Conduction (CO01-KS)  |
| EMI Test Receiver                    | R&S          | ESR7       | 101403           | 9kHz~7GHz;Ma<br>x 30dBm    | Oct. 12, 2022    | Aug. 04, 2023 | Oct. 11, 2023 | Radiation (03CH02-KS) |
| EXA Spectrum Analyzer                | Keysight     | N9010A     | MY55370528       | 10Hz~44G,MAX<br>30dB       | Oct. 12, 2022    | Aug. 04, 2023 | Oct. 11, 2023 | Radiation (03CH02-KS) |
| Bilog Antenna                        | TeseQ        | CBL6111D   | 44483            | 30MHz~1GHz                 | Dec. 23, 2022    | Aug. 04, 2023 | Dec. 22, 2023 | Radiation (03CH02-KS) |
| Double Ridge<br>Horn Antenna         | ETS-Lindgren | 3117       | 75957            | 1GHz~18GHz                 | Nov. 15, 2022    | Aug. 04, 2023 | Nov. 14, 2023 | Radiation (03CH02-KS) |
| SHF-EHF Horn                         | Com-power    | AH-840     | 101070           | 18GHz~40GHz                | Jan. 08, 2023    | Aug. 04, 2023 | Jan. 07, 2024 | Radiation (03CH02-KS) |
| Amplifier                            | EM           | EM18G40GGA | 060852           | 18~40GHz                   | Jan. 05, 2023    | Aug. 04, 2023 | Jan. 04, 2024 | Radiation (03CH02-KS) |
| Amplifier                            | SONOMA       | 310N       | 380826           | 9KHz~1GHz                  | Jul. 06, 2023    | Aug. 04, 2023 | Jul. 05, 2024 | Radiation (03CH02-KS) |
| Amplifier                            | EM           | EM01G18G   | 060806           | 1GHz~18GHz                 | Oct. 12, 2022    | Aug. 04, 2023 | Oct. 11, 2023 | Radiation (03CH02-KS) |
| AC Power Source                      | Chroma       | 61601      | 61601000247<br>3 | N/A                        | NCR              | Aug. 04, 2023 | NCR           | Radiation (03CH02-KS) |
| Turn Table                           | MF           | MF7802     | N/A              | 0~360 degree               | NCR              | Aug. 04, 2023 | NCR           | Radiation (03CH02-KS) |
| Antenna Mast                         | MF           | MF7802     | N/A              | 1 m~4 m                    | NCR              | Aug. 04, 2023 | NCR           | Radiation (03CH02-KS) |

NCR: No Calibration Required

## 5. Measurement Uncertainty

### Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

|   |        |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 2.84dB |
|---|--------|

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|   |        |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 6.04dB |
|---|--------|

### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

|   |        |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.16dB |
|---|--------|

### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

|   |        |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 4.96dB |
|---|--------|