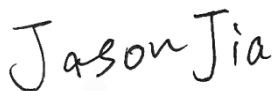


# FCC Test Report

APPLICANT : GigaDevice Semiconductor Inc.  
EQUIPMENT : 802.11bgn wlan module  
BRAND NAME : GigaDevice  
MODEL NAME : GD32W515\_MD1  
FCC ID : 2A3BS-GD32W515MD1  
STANDARD : 47 CFR Part 15 Subpart B  
CLASSIFICATION : Certification  
TEST DATE(S) : Sep. 29, 2021 ~ Oct. 21, 2021

We, Sporton International (Kunshan) Inc., 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 (Kunshan) Inc., the test report shall not be reproduced except in full.



Reviewed by: Jason Jia / Supervisor



Approved by: Alex Wang / Manager



**Sporton International (Kunshan) Inc.**

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   |
|------------|---------|-------------------------|---------------|
| FC191334   | Rev. 01 | Initial issue of report | Oct. 22, 2021 |
|            |         |                         |               |
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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>15.65 dB at<br>0.150 MHz  |
| 3.2            | 15.109   | Radiated Emission     | < 15.109 limits | PASS   | Under limit<br>12.82 dB at<br>32.910 MHz |

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



## 1. General Description

### 1.1. Applicant

**GigaDevice Semiconductor Inc.**

Building No. 8, IC Park, No. 9 Fenghao East Road, Haidian District, Beijing 100094, China

### 1.2. Manufacturer

**GigaDevice Semiconductor Inc.**

Building No. 8, IC Park, No. 9 Fenghao East Road, Haidian District, Beijing 100094, China

### 1.3. Product Feature of Equipment Under Test

| Product Feature                 |                                   |
|---------------------------------|-----------------------------------|
| Equipment                       | 802.11bgn wlan module             |
| Brand Name                      | GigaDevice                        |
| Model Name                      | GD32W515_MD1                      |
| FCC ID                          | 2A3BS-GD32W515MD1                 |
| EUT supports Radios application | WLAN 2.4GHz 802.11b/g/n HT20/HT40 |
| HW Version                      | GD32W515_MD1_SP_2V1               |
| SW Version                      | KEIL-image-all-rf-test-1.0.3.bin  |
| 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                                                    |
| <b>Rx Frequency</b>                     | 802.11b/g/n: 2400 MHz ~ 2483.5 MHz                                                    |
| <b>Antenna Type</b>                     | WLAN : PCB Antenna & Dipole Antenna                                                   |
| <b>Type of Modulation</b>               | 802.11b : DSSS (DBPSK / DQPSK / CCK)<br>802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) |

Note: The device supports two types of antenna which can't use simultaneously.

## 1.5. Modification of EUT

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

## 1.6. Test Location

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

|                           |                                                                                                                                                                          |                            |                                       |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------|
| <b>Test Firm</b>          | Sporton International (Kunshan) Inc.                                                                                                                                     |                            |                                       |
| <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<br>FAX : +86-512-57900958 |                            |                                       |
| <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   | 6.2009-8-24a |
| 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

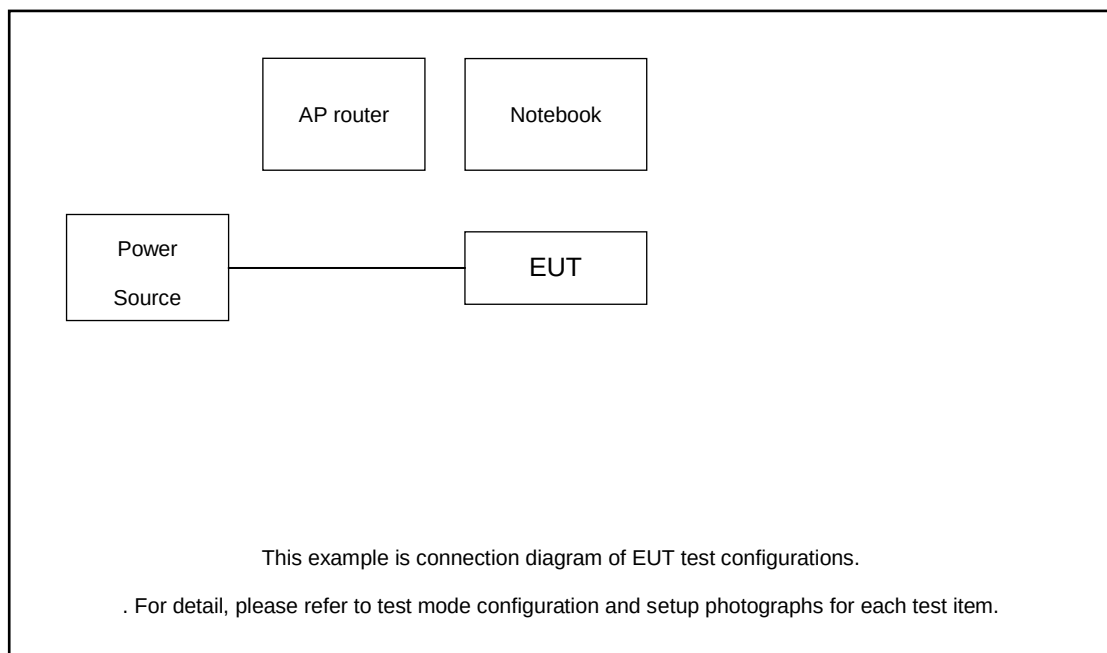
### 2.1. Test Mode

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+ Power from Adapter + PCB Antenna<br>Mode 2: WLAN (2.4G) Idle+ Power from Adapter + Dipole Antenna |
| Radiated Emissions                                                                                                                                                                                                                        | Mode 1: WLAN (2.4G) Idle+ Power from Adapter + PCB Antenna<br>Mode 2: WLAN (2.4G) Idle+ Power from Adapter + Dipole Antenna |
| <b>Remark:</b> <ol style="list-style-type: none"> <li>1. The worst case of AC is mode 2; only the test data of this mode is reported.</li> <li>2. The worst case of RE is mode 2; only the test data of this mode is reported.</li> </ol> |                                                                                                                             |

### 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.   | Adapter   | N/A        | N/A           | N/A           | N/A             | N/A                                                        |
| 2.   | USB Cable | N/A        | N/A           | N/A           | Unshielded,1.2m | N/A                                                        |
| 3.   | WLAN AP   | TP-Link    | TL-WDR5600    | N/A           | N/A             | Unshielded,1.8m                                            |
| 4.   | WLAN AP   | D-Link     | DIR-655       | KA21R655B1    | N/A             | Unshielded,1.8m                                            |
| 5.   | Notebook  | Lenovo     | V130-15IKB005 | N/A           | N/A             | AC I/P:<br>Unshielded, 1.8 m<br>DC O/P:<br>Shielded, 1.8 m |
| 6.   | Notebook  | Lenovo     | G480          | QDS-BRCM1050I | N/A             | AC I/P:<br>Unshielded, 1.8 m<br>DC O/P:<br>Shielded, 1.8 m |
| 7.   | Test Jig  | N/A        | N/A           | N/A           | N/A             | N/A                                                        |
| 8.   | Adapter   | Moto       | C-P56         | 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.

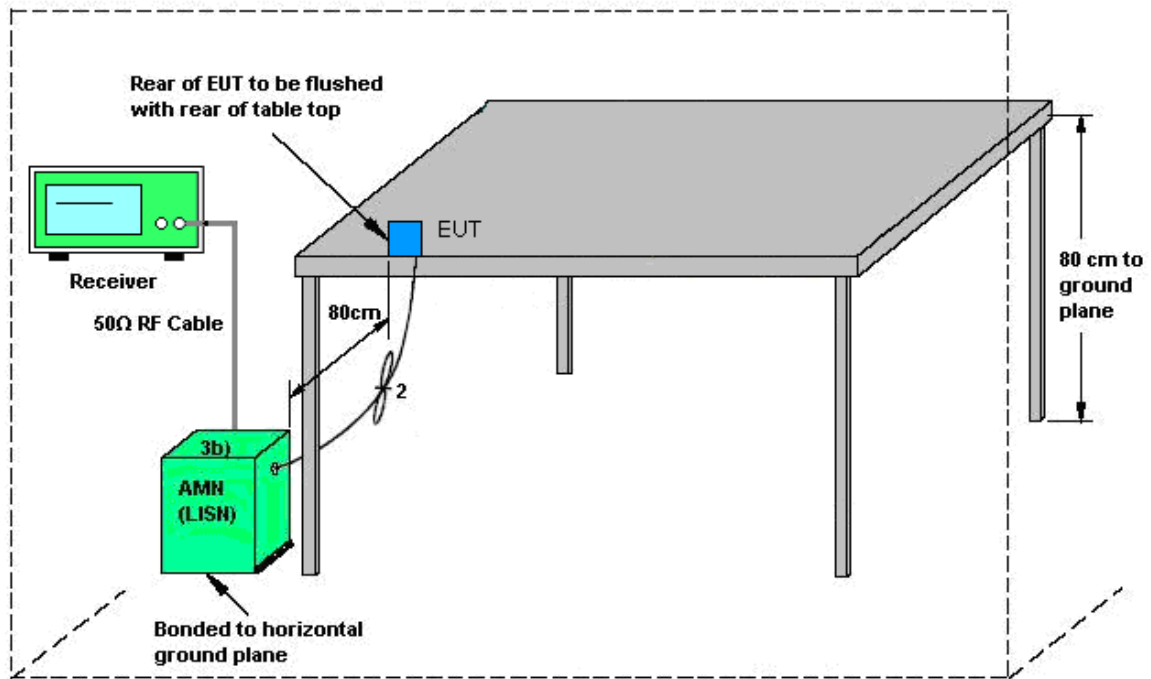
##### 3.1.2 Measuring Instruments

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.

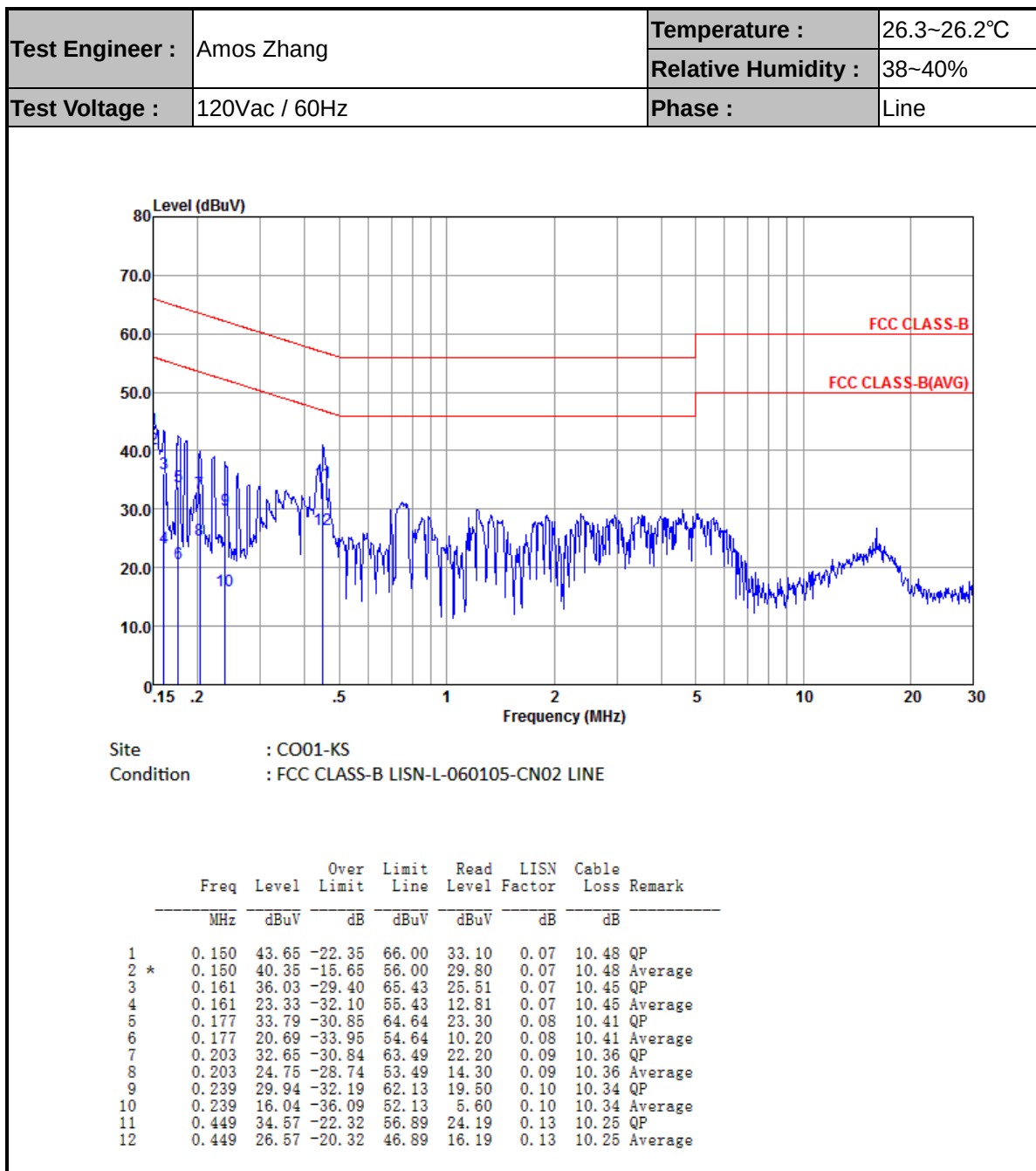
### 3.1.4 Test Setup



AMN = Artificial mains network (LISN)  
 AE = Associated equipment  
 EUT = Equipment under test  
 ISN = Impedance stabilization network

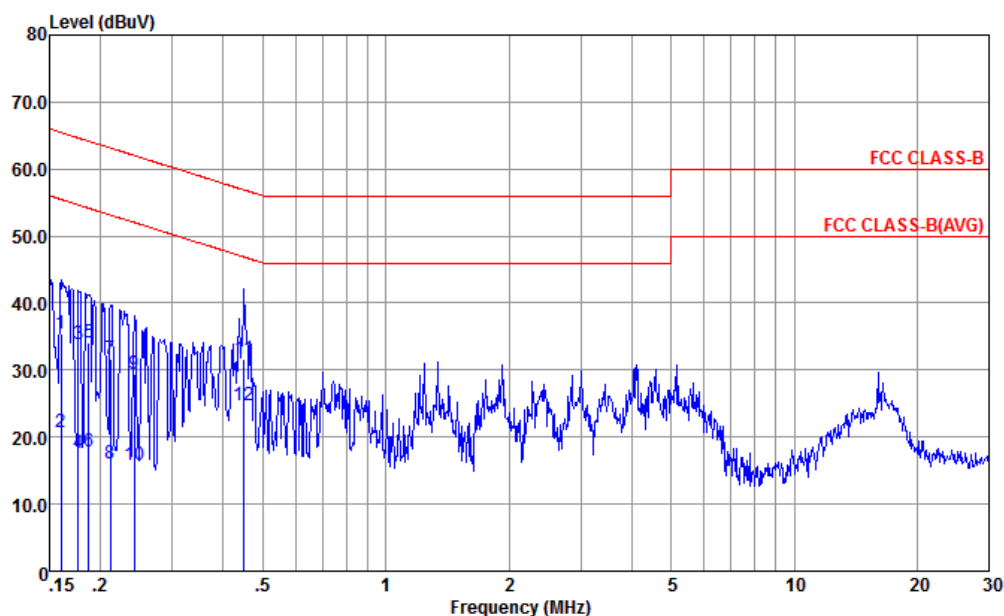


## 3.1.5 Test Result of AC Conducted Emission





|                 |               |                     |             |
|-----------------|---------------|---------------------|-------------|
| Test Engineer : | Amos Zhang    | Temperature :       | 26.3~26.2°C |
|                 |               | Relative Humidity : | 38~40%      |
| Test Voltage :  | 120Vac / 60Hz | Phase :             | Neutral     |



Site : CO01-KS  
Condition : FCC CLASS-B LISN-N-060105-CN02 NEUTRAL

|      | Freq  | Level | Over   | Limit | Read  | LISN   | Cable |         |
|------|-------|-------|--------|-------|-------|--------|-------|---------|
|      | MHz   | dBuV  | Limit  | Line  | Level | Factor | Loss  | Remark  |
|      |       |       | dB     | dBuV  | dBuV  | dB     | dB    |         |
| 1    | 0.160 | 35.51 | -29.96 | 65.47 | 24.91 | 0.15   | 10.45 | QP      |
| 2    | 0.160 | 20.81 | -34.66 | 55.47 | 10.21 | 0.15   | 10.45 | Average |
| 3    | 0.177 | 33.87 | -30.77 | 64.64 | 23.30 | 0.16   | 10.41 | QP      |
| 4    | 0.177 | 17.67 | -36.97 | 54.64 | 7.10  | 0.16   | 10.41 | Average |
| 5    | 0.187 | 34.15 | -30.00 | 64.15 | 23.60 | 0.16   | 10.39 | QP      |
| 6    | 0.187 | 17.75 | -36.40 | 54.15 | 7.20  | 0.16   | 10.39 | Average |
| 7    | 0.212 | 31.73 | -31.41 | 63.14 | 21.20 | 0.17   | 10.36 | QP      |
| 8    | 0.212 | 16.03 | -37.11 | 53.14 | 5.50  | 0.17   | 10.36 | Average |
| 9    | 0.242 | 29.32 | -32.72 | 62.04 | 18.80 | 0.18   | 10.34 | QP      |
| 10   | 0.242 | 15.72 | -36.32 | 52.04 | 5.20  | 0.18   | 10.34 | Average |
| 11   | 0.449 | 31.57 | -25.32 | 56.89 | 21.10 | 0.22   | 10.25 | QP      |
| 12 * | 0.449 | 24.77 | -22.12 | 46.89 | 14.30 | 0.22   | 10.25 | 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

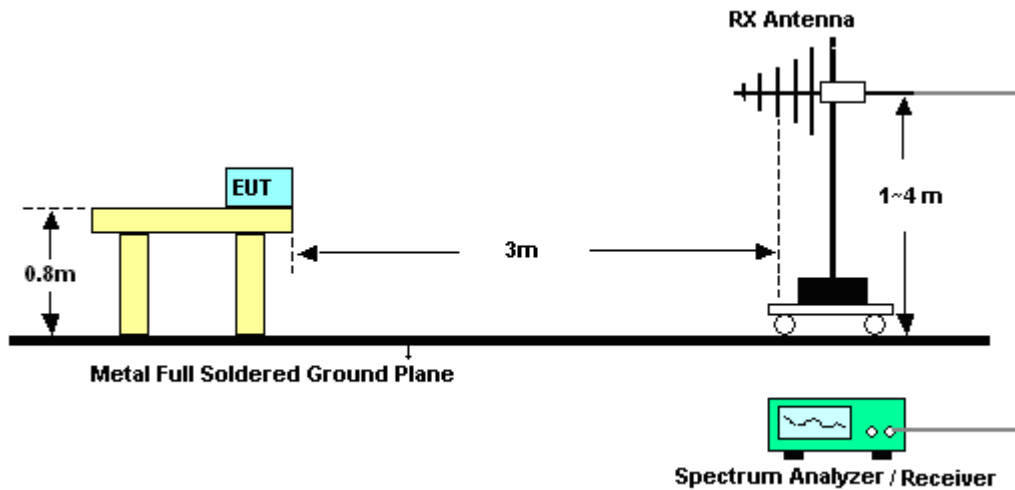
The measuring equipment is listed in the section 4 of this test report.

### 3.2.3. Test Procedures

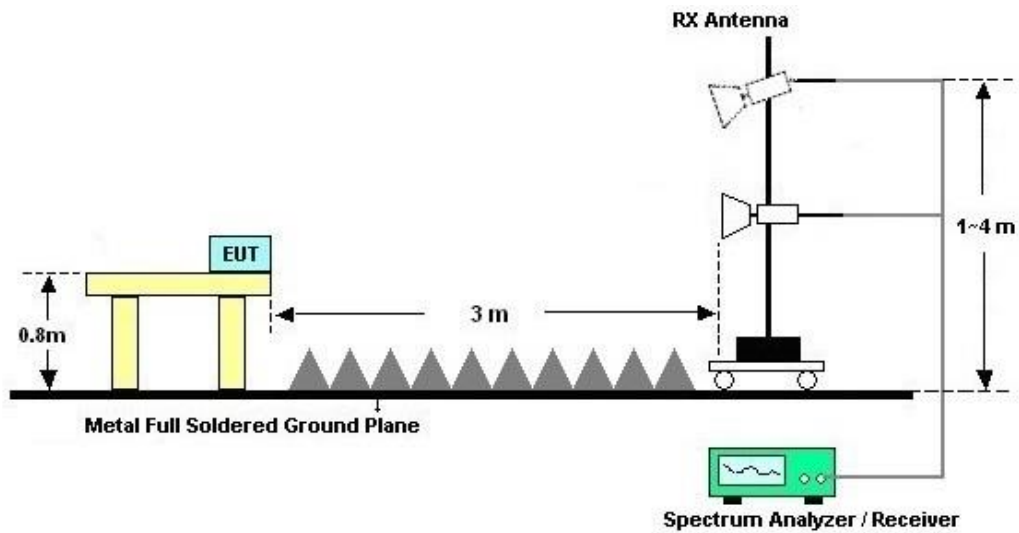
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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 (dB $\mu$ V/m) = 20 log Emission level ( $\mu$ V/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



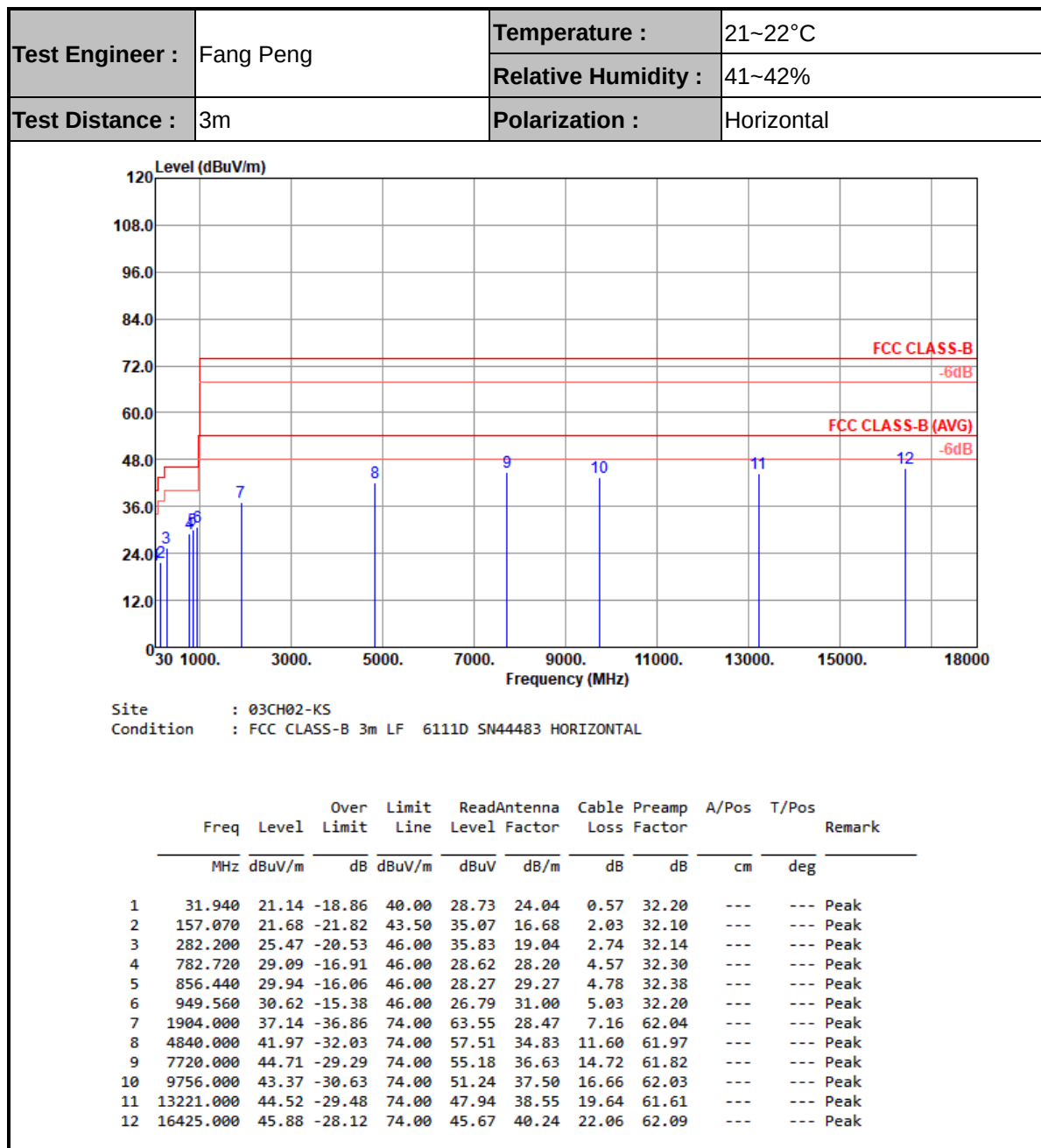
For radiated emissions above 1GHz





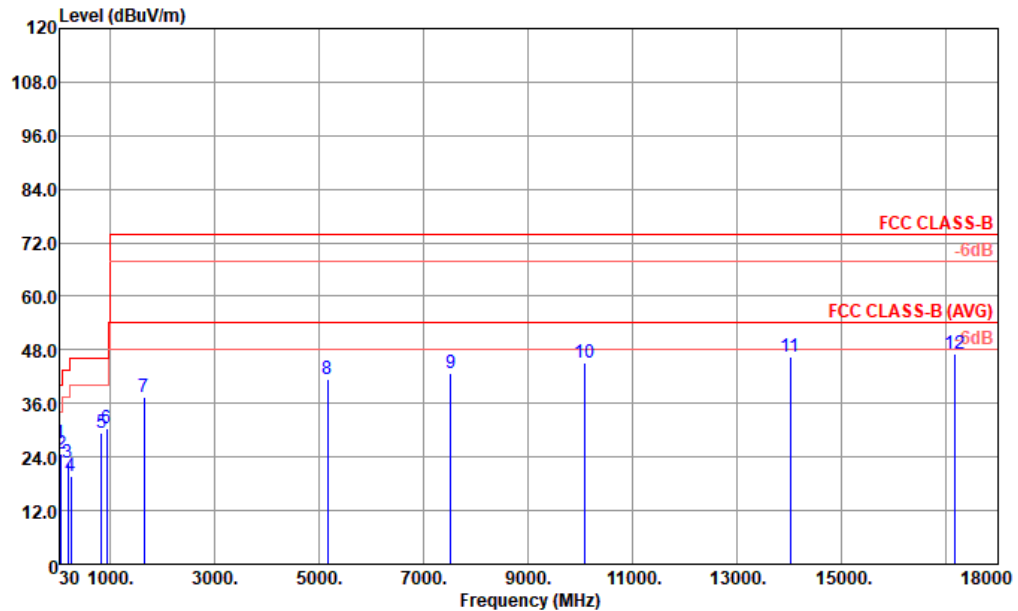


## 3.2.5. Test Result of Radiated Emission





|                 |           |                     |          |
|-----------------|-----------|---------------------|----------|
| Test Engineer : | Fang Peng | Temperature :       | 21~22°C  |
|                 |           | Relative Humidity : | 41~42%   |
| Test Distance : | 3m        | Polarization :      | Vertical |



Site : 03CH02-KS  
Condition : FCC CLASS-B 3m LF 6111D SN44483 VERTICAL

|    | Freq      | Level  | Over<br>Limit | Limit<br>Line | ReadAntenna<br>Level | Factor | Cable<br>Loss | Preamp<br>Factor | A/Pos | T/Pos | Remark |
|----|-----------|--------|---------------|---------------|----------------------|--------|---------------|------------------|-------|-------|--------|
|    | MHz       | dBuV/m | dB            | dBuV/m        | dBuV                 | dB/m   | dB            | dB               | cm    | deg   |        |
| 1  | 32.910    | 27.18  | -12.82        | 40.00         | 35.28                | 23.51  | 0.59          | 32.20            | ---   | ---   | Peak   |
| 2  | 61.040    | 24.60  | -15.40        | 40.00         | 43.72                | 11.96  | 1.02          | 32.10            | ---   | ---   | Peak   |
| 3  | 199.750   | 22.83  | -20.67        | 43.50         | 37.51                | 15.10  | 2.32          | 32.10            | ---   | ---   | Peak   |
| 4  | 255.040   | 19.59  | -26.41        | 46.00         | 29.46                | 19.71  | 2.61          | 32.19            | ---   | ---   | Peak   |
| 5  | 837.040   | 29.57  | -16.43        | 46.00         | 28.20                | 29.02  | 4.72          | 32.37            | ---   | ---   | Peak   |
| 6  | 936.950   | 30.52  | -15.48        | 46.00         | 27.20                | 30.52  | 5.00          | 32.20            | ---   | ---   | Peak   |
| 7  | 1656.000  | 37.29  | -36.71        | 74.00         | 64.14                | 28.10  | 6.70          | 61.65            | ---   | ---   | Peak   |
| 8  | 5160.000  | 41.57  | -32.43        | 74.00         | 56.31                | 34.95  | 12.00         | 61.69            | ---   | ---   | Peak   |
| 9  | 7520.000  | 42.82  | -31.18        | 74.00         | 53.57                | 36.52  | 14.58         | 61.85            | ---   | ---   | Peak   |
| 10 | 10080.000 | 45.22  | -28.78        | 74.00         | 52.56                | 37.56  | 17.14         | 62.04            | ---   | ---   | Peak   |
| 11 | 14022.000 | 46.50  | -27.50        | 74.00         | 49.37                | 38.61  | 20.13         | 61.61            | ---   | ---   | Peak   |
| 12 | 17163.000 | 46.97  | -27.03        | 74.00         | 45.11                | 40.50  | 22.86         | 61.50            | ---   | ---   | Peak   |

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;              | Apr. 21, 2021    | Oct. 21, 2021 | Apr. 20, 2022 | Conduction (CO01-KS)  |
| AC LISN<br>(for auxiliary equipment) | MessTec      | AN3016     | 060103       | 9kHz~30MHz              | Oct. 17, 2021    | Oct. 21, 2021 | Oct. 16, 2022 | Conduction (CO01-KS)  |
| AC LISN                              | R&S          | ENV216     | 100334       | 9kHz~30MHz              | Oct. 17, 2021    | Oct. 21, 2021 | Oct. 16, 2022 | Conduction (CO01-KS)  |
| AC Power Source                      | Chroma       | 61602      | ABP000000811 | AC 0V~300V, 45Hz~1000Hz | Oct. 17, 2021    | Oct. 21, 2021 | Oct. 16, 2022 | Conduction (CO01-KS)  |
| EMI Test Receiver                    | R&S          | ESR7       | 101403       | 9kHz~7GHz;Max 30dBm     | Oct. 17, 2020    | Sep. 29, 2021 | Oct. 16, 2021 | Radiation (03CH02-KS) |
| EXA Spectrum Analyzer                | Keysight     | N9010A     | MY55370528   | 10Hz~44G,MAX 30dB       | Oct. 17, 2020    | Sep. 29, 2021 | Oct. 16, 2021 | Radiation (03CH02-KS) |
| Bilog Antenna                        | TeseQ        | CBL6111D   | 44483        | 30MHz~1GHz              | Jan. 26, 2021    | Sep. 29, 2021 | Jan. 25, 2022 | Radiation (03CH02-KS) |
| Double Ridge Horn Antenna            | ETS-Lindgren | 3117       | 75957        | 1GHz~18GHz              | Nov. 01, 2020    | Sep. 29, 2021 | Oct. 31, 2021 | Radiation (03CH02-KS) |
| SHF-EHF Horn                         | Com-power    | AH-840     | 101115       | 18GHz~40GHz             | Nov. 06, 2020    | Sep. 29, 2021 | Nov. 05, 2021 | Radiation (03CH02-KS) |
| Amplifier                            | MITEQ        | EM18G40GGA | 060728       | 18~40GHz                | Jan. 06, 2021    | Sep. 29, 2021 | Jan. 05, 2022 | Radiation (03CH02-KS) |
| Amplifier                            | SONOMA       | 310N       | 187289       | 9KHz~1GHz               | Apr. 12, 2021    | Sep. 29, 2021 | Apr. 11, 2022 | Radiation (03CH02-KS) |
| Amplifier                            | Keysight     | 83017A     | MY53270316   | 500MHz~26.5GHz          | Oct. 17, 2020    | Sep. 29, 2021 | Oct. 16, 2021 | Radiation (03CH02-KS) |
| AC Power Source                      | Chroma       | 61601      | 616010002473 | N/A                     | NCR              | Sep. 29, 2021 | NCR           | Radiation (03CH02-KS) |
| Turn Table                           | MF           | MF7802     | N/A          | 0~360 degree            | NCR              | Sep. 29, 2021 | NCR           | Radiation (03CH02-KS) |
| Antenna Mast                         | MF           | MF7802     | N/A          | 1 m~4 m                 | NCR              | Sep. 29, 2021 | NCR           | Radiation (03CH02-KS) |

NCR: No Calibration Required

## 5. Uncertainty of Evaluation

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

|                                                                            |       |
|----------------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 2.9dB |
|----------------------------------------------------------------------------|-------|

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

|                                                                            |       |
|----------------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 4.9dB |
|----------------------------------------------------------------------------|-------|

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

|                                                                            |       |
|----------------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 5.0dB |
|----------------------------------------------------------------------------|-------|