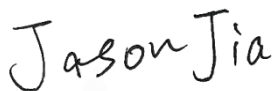


# FCC Test Report

APPLICANT : Motorola Mobility LLC  
EQUIPMENT : Mobile Cellular Phone  
BRAND NAME : Motorola  
MODEL NAME : XT2201-1  
FCC ID : IHDT56AB1  
STANDARD : 47 CFR Part 15 Subpart B  
CLASSIFICATION : Certification  
TEST DATE(S) : Nov. 30, 2021 ~ Dec. 03, 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   |
|------------|---------|-------------------------|---------------|
| FC192317   | Rev. 01 | Initial issue of report | Dec. 10, 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>4.50 dB at<br>3.224 MHz                    |
| 3.2            | 15.109   | Radiated Emission     | < 15.109 limits | PASS   | Under limit<br>5.14 dB at<br>62.010 MHz for<br>Quasi-Peak |

**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

Motorola Mobility LLC  
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

### 1.2. Manufacturer

Motorola Mobility LLC  
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

### 1.3. Product Feature of Equipment Under Test

| Product Feature                 |                                                                                                                                                                                                                                                                                                                             |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment                       | Mobile Cellular Phone                                                                                                                                                                                                                                                                                                       |
| Brand Name                      | Motorola                                                                                                                                                                                                                                                                                                                    |
| Model Name                      | XT2201-1                                                                                                                                                                                                                                                                                                                    |
| FCC ID                          | IHDT56AB1                                                                                                                                                                                                                                                                                                                   |
| EUT supports Radios application | GSM/WCDMA/LTE/5G NR<br>WLAN 2.4GHz 802.11b/g/n (HT20/HT40)<br>WLAN 2.4GHz 802.11ax (HE20/HE40)<br>WLAN 5GHz 802.11a/n (HT20/HT40)<br>WLAN 5GHz 802.11ac (VHT20/VHT40/VHT80/VHT160)<br>WLAN 5GHz 802.11ax (HE20/ HE40/ HE80/ HE160)<br>WLAN 6GHz 802.11a/ax (HE20/ HE40/ HE80/ HE160)<br>Bluetooth BR/EDR/LE<br>GNSS/NFC/WPT |
| IMEI Code                       | Conduction: 355871980015197/355871980019205<br>Radiation: 355871980014752/355871980014760                                                                                                                                                                                                                                   |
| HW Version                      | DVT2                                                                                                                                                                                                                                                                                                                        |
| SW Version                      | SSH32.79                                                                                                                                                                                                                                                                                                                    |
| EUT Stage                       | Identical Prototype                                                                                                                                                                                                                                                                                                         |

**Remark:**

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two types of EUT: sample 1 is dual card and sample 2 is single card. The sample 2 is verified worse case for the sample 1.

## 1.4. Product Specification of Equipment Under Test

| Standards-related Product Specification |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tx Frequency</b>                     | GSM850: 824 MHz ~ 849 MHz<br>GSM1900: 1850MHz ~ 1910MHz<br>WCDMA Band II: 1850 MHz ~ 1910 MHz<br>WCDMA Band IV : 1710 MHz ~ 1755 MHz<br>WCDMA Band V: 824 MHz ~ 849 MHz<br>LTE Band 2 : 1850 MHz ~ 1910 MHz<br>LTE Band 4 : 1710 MHz ~ 1755 MHz<br>LTE Band 5 : 824 MHz ~ 849 MHz<br>LTE Band 7 : 2500 MHz ~ 2570 MHz<br>LTE Band 12 : 699 MHz ~ 716 MHz<br>LTE Band 13 : 777 MHz ~ 787 MHz<br>LTE Band 17 : 704 MHz ~ 716 MHz<br>LTE Band 25 : 1850 MHz ~ 1915 MHz<br>LTE Band 26 : 814 MHz ~ 849 MHz<br>LTE Band 38 : 2570 MHz ~ 2620 MHz<br>LTE Band 41 : 2496 MHz ~ 2690 MHz<br>LTE Band 42 : 3450 MHz ~ 3600 MHz<br>LTE Band 43 : 3600 MHz ~ 3700 MHz<br>LTE Band 48 : 3550 MHz ~ 3700 MHz<br>LTE Band 66 : 1710 MHz ~ 1780 MHz<br>5G NR n5 : 824 MHz ~ 849 MHz<br>5G NR n7 : 2500 MHz ~ 2570 MHz<br>5G NR n38 : 2570 MHz ~ 2620 MHz<br>5G NR n66 : 1710 MHz ~ 1780 MHz<br>5G NR n77: 3450 MHz ~ 3550 MHz; 3700 MHz ~ 3980 MHz<br>5G NR n78: 3450 MHz ~ 3550 MHz; 3700 MHz ~ 3800 MHz<br>802.11b/g/n/ax: 2400 MHz ~ 2483.5 MHz<br>802.11a/n/ac/ax: 5150 MHz ~ 5250 MHz;<br>5250 MHz ~ 5350 MHz;<br>5470 MHz ~ 5725 MHz<br>5725 MHz ~ 5850 MHz<br>802.11a/ax: 5925 MHz ~ 7125 MHz<br>Bluetooth: 2400 MHz ~ 2483.5 MHz<br>NFC : 13.56 MHz<br>WPT: 110kHz~ 148.5 kHz |
| <b>Rx Frequency</b>                     | GSM850: 869 MHz ~ 894 MHz<br>GSM1900: 1930 MHz ~ 1990 MHz<br>WCDMA Band II: 1930 MHz ~ 1990 MHz<br>WCDMA Band IV : 2110 MHz ~ 2155 MHz<br>WCDMA Band V: 869 MHz ~ 894 MHz<br>LTE Band 2 : 1930 MHz ~ 1990 MHz<br>LTE Band 4 : 2110 MHz ~ 2155 MHz<br>LTE Band 5 : 869 MHz ~ 894 MHz<br>LTE Band 7 : 2620 MHz ~ 2690 MHz<br>LTE Band 12 : 729 MHz ~ 746 MHz<br>LTE Band 13 : 746 MHz ~ 756 MHz<br>LTE Band 17 : 734 MHz ~ 746 MHz<br>LTE Band 25 : 1930 MHz ~ 1995 MHz<br>LTE Band 26 : 859 MHz ~ 894 MHz<br>LTE Band 38: 2570 MHz ~ 2620 MHz<br>LTE Band 41 : 2496 MHz ~ 2690 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | <p>LTE Band 42 : 3450 MHz ~ 3600 MHz<br/>         LTE Band 43 : 3600 MHz ~ 3700 MHz<br/>         LTE Band 48 : 3550 MHz ~ 3700 MHz<br/>         LTE Band 66 : 2110 MHz~ 2200 MHz<br/>         5G NR n5 : 869 MHz ~ 894 MHz<br/>         5G NR n7 : 2620 MHz ~ 2690 MHz<br/>         5G NR n38: 2570 MHz ~ 2620 MHz<br/>         5G NR n66 : 2110 MHz~ 2200 MHz<br/>         5G NR n77: 3450 MHz ~ 3550 MHz; 3700 MHz ~ 3980 MHz<br/>         5G NR n78: 3450 MHz ~ 3550 MHz; 3700 MHz ~ 3800 MHz<br/>         802.11b/g/n/ax: 2400 MHz ~ 2483.5 MHz<br/>         802.11a/n/ac/ax: 5150 MHz ~ 5250 MHz;<br/>                             5250 MHz ~ 5350 MHz;<br/>                             5470 MHz ~ 5725 MHz<br/>                             5725 MHz ~ 5850 MHz<br/>         802.11a/ax: 5925 MHz ~ 7125 MHz<br/>         Bluetooth: 2400 MHz ~ 2483.5 MHz<br/>         NFC : 13.56 MHz<br/>         GNSS : 1559 MHz ~ 1610 MHz, 1164 MHz ~ 1215 MHz<br/>         WPT: 110kHz~ 148.5 kHz</p> |
| Antenna Type       | <p>WWAN : PIFA Antenna<br/>         WLAN 2.4GHz/Bluetooth Ant. 1 : IFA Antenna<br/>         WLAN 2.4GHz/Bluetooth Ant. 2 : PIFA Antenna<br/>         WLAN 5GHz/6GHz : PIFA Antenna<br/>         GNSS 1559 MHz ~ 1610 MHz : IFA Antenna<br/>         GNSS 1164 MHz ~ 1215 MHz : PIFA Antenna<br/>         NFC: Loop Antenna<br/>         WPT: Coil Antenna</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Type of Modulation | <p>GSM/GPRS: GMSK<br/>         EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK<br/>         WCDMA : BPSK<br/>         HSPA : QPSK<br/>         HSPA+ : 16QAM (uplink is not supported)<br/>         DC-HSDPA : 64QAM<br/>         LTE: QPSK / 16QAM / 64QAM / 256QAM<br/>         5G NR:<br/>         DFT-s-OFDM (PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM)<br/>         CP-OFDM (QPSK / 16QAM / 64QAM / 256QAM)<br/>         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/>         802.11ax: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM /<br/>         1024QAM / 4096QAM)<br/>         Bluetooth LE : GFSK<br/>         Bluetooth (1Mbps) : GFSK<br/>         Bluetooth (2Mbps) :π/4-DQPSK<br/>         Bluetooth (3Mbps) : 8-DPSK<br/>         GNSS : BPSK<br/>         NFC: ASK<br/>         WPT: ASK</p>                                                                     |

## 1.5. Modification of EUT

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

## 1.6. Specification of Accessory

| Specification of Accessory       |            |                       |                                  |
|----------------------------------|------------|-----------------------|----------------------------------|
| AC Adapter 1(US)                 | Brand Name | Motorola(Salom)       | Model Name MC-681                |
| AC Adapter 1(EU)                 | Brand Name | Motorola(Salom)       | Model Name MC-682                |
| AC Adapter 1(UK)                 | Brand Name | Motorola(Salom)       | Model Name MC-683                |
| AC Adapter 1(AR)                 | Brand Name | Motorola(Salom)       | Model Name MC-686                |
| AC Adapter 1(BR)                 | Brand Name | Motorola(Salom)       | Model Name MC-687                |
| AC Adapter 1(Chile)              | Brand Name | Motorola(Salom)       | Model Name MC-689                |
| AC Adapter 2(AU)                 | Brand Name | Motorola(Salom)       | Model Name MC-305                |
| AC Adapter 3(AU)                 | Brand Name | Motorola(Acbel)       | Model Name MC-305                |
| Battery                          | Brand Name | Motorola(ATL)         | Model Name NA50                  |
| Earphone                         | Brand Name | Motorola (Lyand)      | Model Name MD211(SH38D20195)     |
| USB Cable 1                      | Brand Name | Motorola(Saibao)      | Model Name SC18D13215            |
| USB Cable 2                      | Brand Name | Motorola(Cabletech)   | Model Name SC18D13216            |
| USB Cable 3                      | Brand Name | Motorola(Luxshare)    | Model Name SC18D13217            |
| USB Cable 4                      | Brand Name | Motorola(Saibao)      | Model Name SC18D24968            |
| Type C to HDMI Cable /USBC Cable | Brand Name | Motorola(Linxee)      | Model Name SC18D02146            |
| Stylus                           | Brand Name | Motorola smart stylus | Model Name XT2201-S              |
| Smart Folio                      | Brand Name | Motorola (Techson)    | Model Name SS68D36907,SS68D36906 |
| Wireless Dongle                  | Brand Name | Motorola              | Model Name MD-02                 |
| HDMI Cable                       | Brand Name | Motorola              | Model Name HC-01                 |
| USB Cable(Type A/C)              | Brand Name | Motorola              | Model Name SC18C24367            |

## 1.7. Test Location

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

|                    |                                                                                                                                                                          |                     |                                   |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------|
| Test Firm          | Sporton International (Kunshan) Inc.                                                                                                                                     |                     |                                   |
| Test Site Location | 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 |                     |                                   |
| Test Site No.      | Sporton Site No.                                                                                                                                                         | FCC Designation No. | FCC Test Firm<br>Registration No. |
|                    | CO01-KS<br>03CH02-KS                                                                                                                                                     | CN1257              | 314309                            |

## 1.8. 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  |

## 1.9. 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: GSM 850 Rx(Middle CH) + USB Cable 4(Charging from Adapter 1) + Bluetooth Idle + WLAN (2.4G) Idle + Camera(Rear) + Battery + SIM 1 for Sample 1                                                             |
|                       | Mode 2: WCDMA 1900 Rx + USB Cable 1(Charging from Adapter 2) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + protective case With Stylus + Battery + SIM 2 + Sample 1                                          |
|                       | Mode 3: LTE Band 13 Rx(High CH) + USB Cable 2(Charging from Adapter3) + WLAN (WIFI 6E) Idle + MPEG4(Run Color Bar) + Bluetooth Idle + Battery + SIM 1 + Sample 1                                                   |
|                       | Mode 4: LTE Band 17 Rx(HighCH) + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 3(Charging from Adapter2) + NFC On + Battery + SIM 2 + Sample 1                                                                     |
|                       | Mode 5: LTE Band 26 Rx(Low CH) + Adapter(1) Connect to Wireless charger + USB Cable 4(EUT Charging from Wireless charger) + Bluetooth Idle + WLAN (WIFI 6E) Idle + GNSS Rx + Earphone + Battery + SIM 2 + Sample 1 |
|                       | Mode 6: LTE Band 12 Rx(Middle CH) + USB Cable 4(EUT Charging from Adapter1) + (EUT Charge the other phones) Bluetooth Idle + WLAN (2.4G) Idle + Camera(Rear) + Battery + SIM 1 + Sample 1                          |
|                       | Mode 7:LTE Band 41 Rx + USB Cable1 (Data Link with Notebook) + Bluetooth Idle + WLAN (5G) Idle + GNSS Rx + Battery + SIM 2 + Sample 1                                                                              |
|                       | Mode 8: 5G N5 Rx(Middle CH) + USB Cable 2(Data Link with Notebook) + Bluetooth Idle + WLAN (WIFI 6E) Idle + GNSS Rx + Battery + SIM 1 + Sample 1                                                                   |
|                       | Mode 9: 5G N77 Rx + USB Cable 3(Data Link with Notebook) + Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Battery + SIM 2 + Sample 1                                                                                |
|                       | Mode 10 : 5G N78 Rx + USB Cable 4(Data Link with Notebook) + Bluetooth Idle + WLAN (5G) Idle + GNSS Rx + Battery + SIM 1 + Idle + Sample 1                                                                         |
|                       | Mode 11 : LTE Band 26 Rx(Low CH) + USB Cable 4(Charging from Adapter1) + C to HDMI Cable With phone and monitor + Bluetooth Idle + WLAN (WIFI 6E) Idle + MPEG4(Run Color Bar) + Battery + Sample 1                 |
|                       | Mode 12 : LTE Band 26 Rx(Low CH) + Wireless Dongle+ Standard HDMI Cable+ USB A/C Cable+Adaptor + Bluetooth Idle + WLAN (WIFI 6E) Idle + Sample 1                                                                   |
|                       | Mode 13 : LTE Band 26 Rx(Low CH) + USB Cable 4(EUT Charging from Wireless charger) + Bluetooth Idle + WLAN (WIFI 6E) Idle + GNSS Rx + Earphone + Battery + Sample 2                                                |

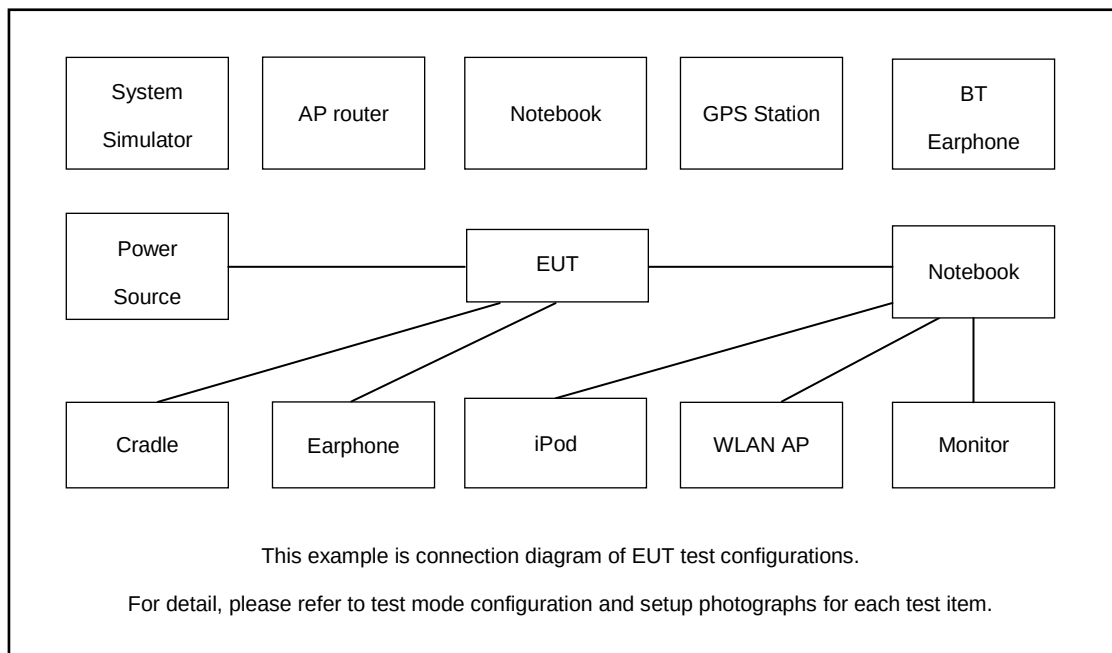


|                    |                                                                                                                                                                                                                                     |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Radiated Emissions | Mode 1 : GSM 850 Rx(Middle CH) + USB Cable4 (Charging from Adapter1) + Bluetooth Idle + WLAN (2.4G) Idle + Camera(Rear) + Battery + SIM 1 + Sample 1                                                                                |
|                    | Mode 2 : WCDMA 1900 Rx + USB Cable1 (Charging from Adapter2) + protective case With Stylus + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Battery + SIM 2 + Sample 1                                                           |
|                    | Mode 3 : LTE Band 13 Rx(High CH) + USB Cable 2(Charging from Adapter3) + Bluetooth Idle + WLAN (WIFI 6E) Idle + MPEG4(Run Color Bar) + Camera(Rear) + Battery + SIM 1 + Sample 1                                                    |
|                    | Mode 4 : LTE Band 17 Rx(High CH) + USB Cable 3(Charging from Adapter3) + Bluetooth Idle + WLAN (2.4G) Idle + NFC On + Camera(Rear) + Battery + SIM 2 + Sample 1                                                                     |
|                    | Mode 5 : LTE Band 26 Rx(Low CH) + Bluetooth Idle + WLAN (5G) Idle MPEG4(Run Color Bar) + Earphone + Camera(Rear) + Battery + SIM 1 + Sample 1                                                                                       |
|                    | Mode 6 : LTE Band 12 Rx(Middle CH) + USB Cable3 (EUT Charging from Wireless charger) + Adapter3 Connect to Wireless charger + Bluetooth Idle + WLAN (WIFI 6E) Idle + GNSS Rx + Earphone + Camera(Rear) + Battery + SIM 2 + Sample 1 |
|                    | Mode 7 : LTE Band 41 Rx + USB Cable3 (EUT Charging from Adapter3 + EUT Charge the other phones + Bluetooth Idle + WLAN (2.4G) Idle + NFC On + Camera(Rear) + Battery + SIM 1 + Sample 1                                             |
|                    | Mode 8 : LTE Band 42 Rx + USB Cable1 (Data Link with Notebook) + Bluetooth Idle + WLAN (5G) Idle + GNSS Rx + Camera(Rear) + Battery + SIM 2 + Sample 1                                                                              |
|                    | Mode 9 : 5G N5 Rx(Middle CH) + USB Cable 2(Data Link with Notebook) + Bluetooth Idle + WLAN (WIFI 6E) Idle + GNSS Rx + Camera(Rear) + Battery + SIM 1 + Sample 1                                                                    |
|                    | Mode 10 : 5G N77 Rx + USB Cable 3(Data Link with Notebook) + Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Camera(Rear) + Battery + SIM 2 + Sample 1                                                                                |
|                    | Mode 11 : 5G N78 Rx + USB Cable 4(Data Link with Notebook) + Bluetooth Idle + WLAN (5G) Idle + GNSS Rx + Camera(Rear) + Battery + SIM 1 + Sample 1                                                                                  |
|                    | Mode 12 : LTE Band 41 Rx + USB Cable3(Charging from Adapter3 + C to HDMI Cable With phone and monitor + Bluetooth Idle + WLAN (WIFI 6E) Idle + MPEG4(Run Color Bar) + Camera(Rear) + Battery + Sample 1                             |
|                    | Mode 13 : LTE Band 41 Rx + Bluetooth Idle + WLAN (2.4G) Idle + Wireless Dongle + Standard HDMI Cable + USB A/C Cable + Adaptor + Camera(Rear) + Sample 1                                                                            |
|                    | Mode 14 : 5G N5 Rx(Middle CH) + USB Cable 2(Data Link with Notebook) + Bluetooth Idle + WLAN (WIFI 6E) Idle + GNSS Rx + Camera(Rear) + Battery + Sample 2                                                                           |

**Remark:**

1. The worst case of AC is mode 5; only the test data of this mode is reported.
2. The worst case of RE is mode 9; only the test data of this mode is reported.
3. Data Link with Notebook means data application transferred mode between EUT and Notebook
4. HDMI Cable means media application transferred between EUT and external display.
5. Pre-scanned Low/Middle/High channel, the worst channel was recorded in this report.

## 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.   | Base Station            | Anritsu    | MT8821C       | N/A        | N/A            | Unshielded,1.8m                                            |
| 2.   | Base Station            | Anritsu    | MT8000A       | N/A        | N/A            | Unshielded,1.8m                                            |
| 3.   | Bluetooth Earphone      | Lenovo     | LBH308        | N/A        | N/A            | N/A                                                        |
| 4.   | Bluetooth Earphone      | Lenovo     | LBH505        | N/A        | N/A            | N/A                                                        |
| 5.   | Notebook                | Lenovo     | V130-15IKB005 | N/A        | N/A            | AC I/P:<br>Unshielded, 1.2 m<br>DC O/P:<br>Shielded, 1.8 m |
| 6.   | Notebook                | Lenovo     | G410          | N/A        | N/A            | AC I/P:<br>Unshielded, 0.9 m<br>DC O/P:<br>Shielded, 1.8 m |
| 7.   | WLAN AP                 | D-link     | DIR-655       | KA21R655B1 | N/A            | Unshielded,1.8m                                            |
| 8.   | WLAN AP                 | D-link     | DIR-815       | KA21R815A1 | N/A            | Unshielded, 1.8m                                           |
| 9.   | Vector Signal Generator | R&S        | SMBV100A      | N/A        | N/A            | Unshielded,1.8m                                            |
| 10.  | Hard Disk               | Lenovo     | F310          | DoC        | Shielded, 1.2m | N/A                                                        |
| 11.  | Monitor                 | Lenovo     | LS2033wA      | Fcc DoC    | N/A            | Unshielded, 1.8m                                           |
| 12.  | Monitor                 | Lenovo     | Thinkvision   | N/A        | N/A            | Unshielded, 1.8m                                           |
| 13.  | Wireless Charger        | HUAWEI     | CP61          | N/A        | N/A            | N/A                                                        |
| 14.  | Phone                   | MOTO       | N/A           | N/A        | N/A            | N/A                                                        |

## 2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA or LTE or 5G NR idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

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

1. Data application is transferred between notebook and EUT via USB cable.
2. Turn on camera to capture images.
3. Turn on MPEG4 function.
4. Turn on GNSS function to make the EUT receive continuous signals from GNSS station.
5. Turn on NFC function
6. Turn on WPT function

### 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.

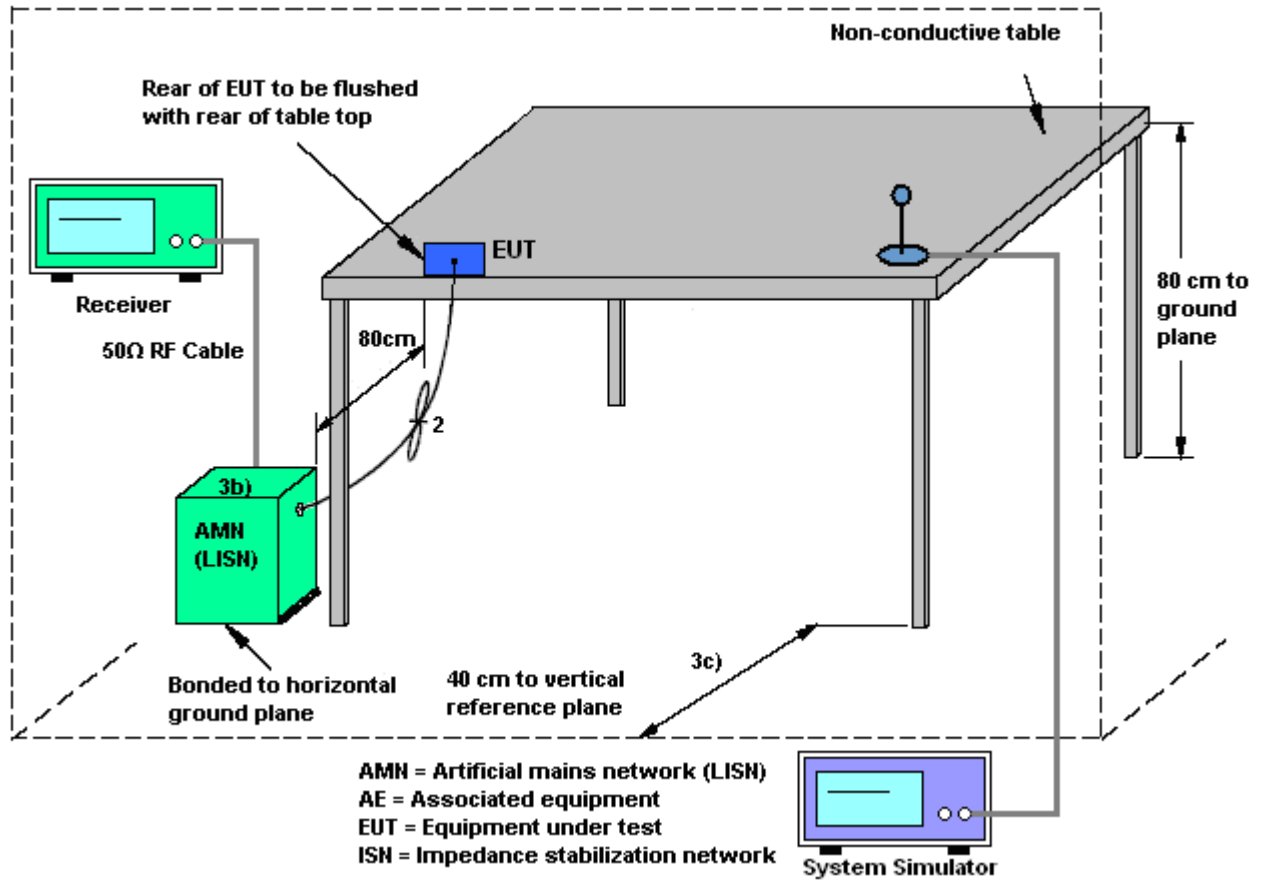
##### 3.1.2 Measuring Instruments

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.

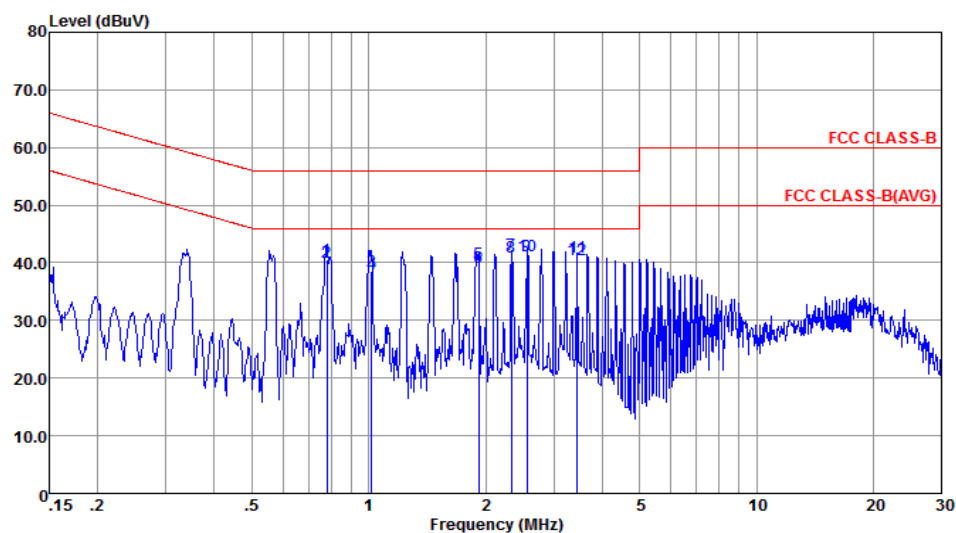
### 3.1.4 Test Setup





## 3.1.5 Test Result of AC Conducted Emission

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

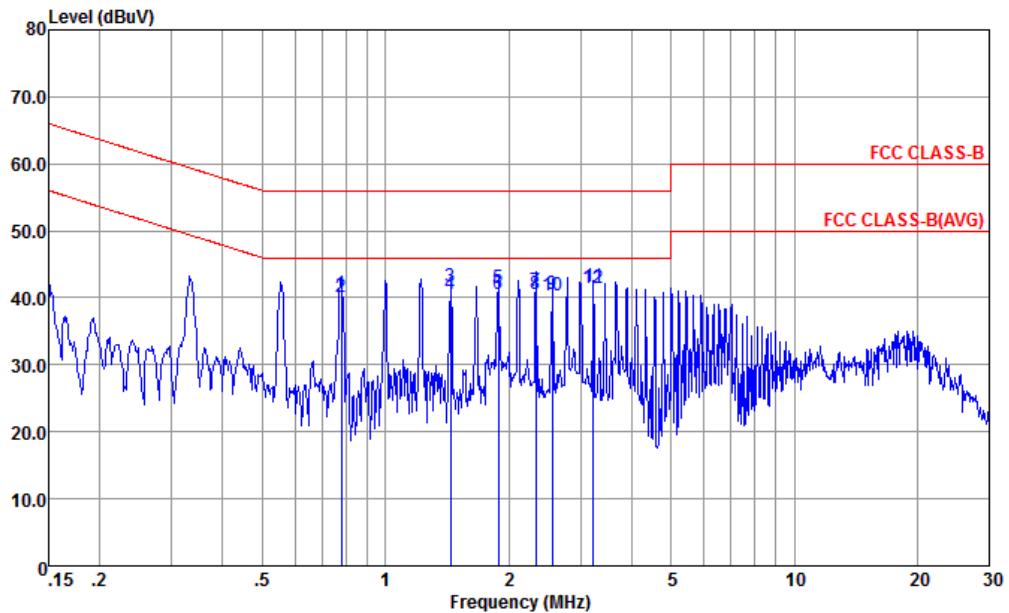


Site : CO01-KS  
Condition : FCC CLASS-B LISN-060105-L LINE

|      | Freq  | Level | Over   | Limit | Read  | LISN   | Cable | Remark  |
|------|-------|-------|--------|-------|-------|--------|-------|---------|
|      | MHz   | dBuV  | Limit  | Line  | Level | Factor | Loss  |         |
|      |       |       | dB     | dBuV  | dBuV  | dB     | dB    |         |
| 1    | 0.779 | 40.45 | -15.55 | 56.00 | 30.09 | 0.12   | 10.24 | QP      |
| 2    | 0.779 | 40.15 | -5.85  | 46.00 | 29.79 | 0.12   | 10.24 | Average |
| 3    | 1.016 | 38.56 | -17.44 | 56.00 | 28.20 | 0.13   | 10.23 | QP      |
| 4    | 1.016 | 38.16 | -7.84  | 46.00 | 27.80 | 0.13   | 10.23 | Average |
| 5    | 1.918 | 39.97 | -16.03 | 56.00 | 29.60 | 0.14   | 10.23 | QP      |
| 6    | 1.918 | 39.17 | -6.83  | 46.00 | 28.80 | 0.14   | 10.23 | Average |
| 7    | 2.334 | 41.48 | -14.52 | 56.00 | 31.11 | 0.14   | 10.23 | QP      |
| 8    | 2.334 | 40.98 | -5.02  | 46.00 | 30.61 | 0.14   | 10.23 | Average |
| 9    | 2.654 | 41.28 | -14.72 | 56.00 | 30.89 | 0.15   | 10.24 | QP      |
| 10 * | 2.654 | 41.28 | -4.72  | 46.00 | 30.89 | 0.15   | 10.24 | Average |
| 11   | 3.454 | 41.01 | -14.99 | 56.00 | 30.60 | 0.16   | 10.25 | QP      |
| 12   | 3.454 | 40.61 | -5.39  | 46.00 | 30.20 | 0.16   | 10.25 | Average |



|                        |                                                                                 |                            |             |
|------------------------|---------------------------------------------------------------------------------|----------------------------|-------------|
| <b>Test Engineer :</b> | Amos Wang                                                                       | <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 CLASS-B LISN-060105-N NEUTRAL

|      | Freq  | Level | Over   | Limit | Read  | LISN   | Cable | Remark  |
|------|-------|-------|--------|-------|-------|--------|-------|---------|
|      | MHz   | dBuV  | Limit  | Line  | Level | Factor | Loss  |         |
|      |       |       | dB     | dBuV  | dBuV  | dB     | dB    |         |
| 1    | 0.779 | 40.65 | -15.35 | 56.00 | 30.30 | 0.11   | 10.24 | QP      |
| 2    | 0.779 | 40.15 | -5.85  | 46.00 | 29.80 | 0.11   | 10.24 | Average |
| 3    | 1.441 | 41.56 | -14.44 | 56.00 | 31.20 | 0.13   | 10.23 | QP      |
| 4    | 1.441 | 40.66 | -5.34  | 46.00 | 30.30 | 0.13   | 10.23 | Average |
| 5    | 1.888 | 41.47 | -14.53 | 56.00 | 31.10 | 0.14   | 10.23 | QP      |
| 6    | 1.888 | 40.57 | -5.43  | 46.00 | 30.20 | 0.14   | 10.23 | Average |
| 7    | 2.334 | 40.98 | -15.02 | 56.00 | 30.61 | 0.14   | 10.23 | QP      |
| 8    | 2.334 | 40.58 | -5.42  | 46.00 | 30.21 | 0.14   | 10.23 | Average |
| 9    | 2.554 | 40.58 | -15.42 | 56.00 | 30.19 | 0.15   | 10.24 | QP      |
| 10   | 2.554 | 40.28 | -5.72  | 46.00 | 29.89 | 0.15   | 10.24 | Average |
| 11   | 3.224 | 41.70 | -14.30 | 56.00 | 31.31 | 0.15   | 10.24 | QP      |
| 12 * | 3.224 | 41.50 | -4.50  | 46.00 | 31.11 | 0.15   | 10.24 | Average |

Note:

1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
2. 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.

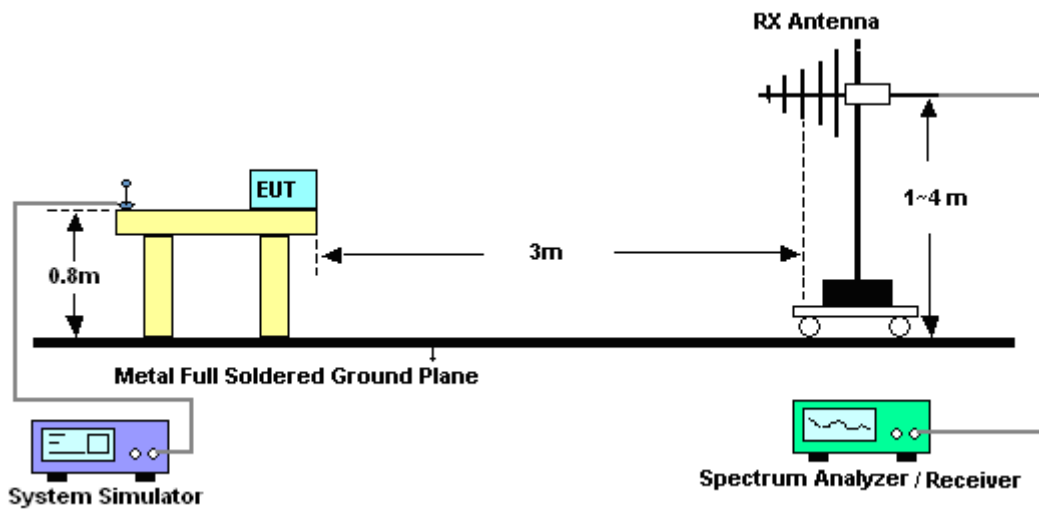
### 3.2.3. Test Procedures

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

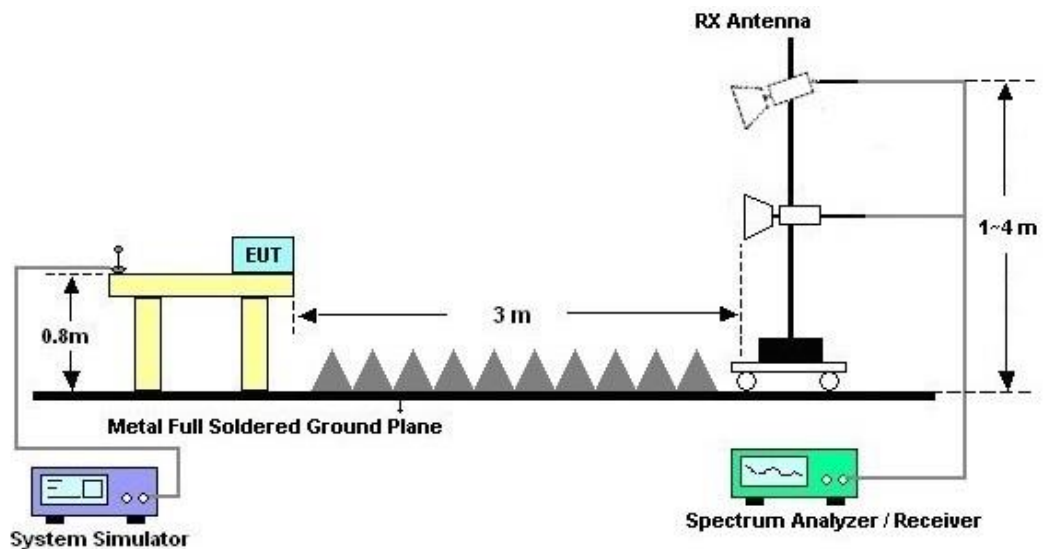
10. Exploratory radiated emissions testing of handheld and/or body-worn devices shall include rotation of the EUT through three orthogonal axes (X/Y/Z Plane) to determine the orientation (attitude) that maximizes the emissions.

### 3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



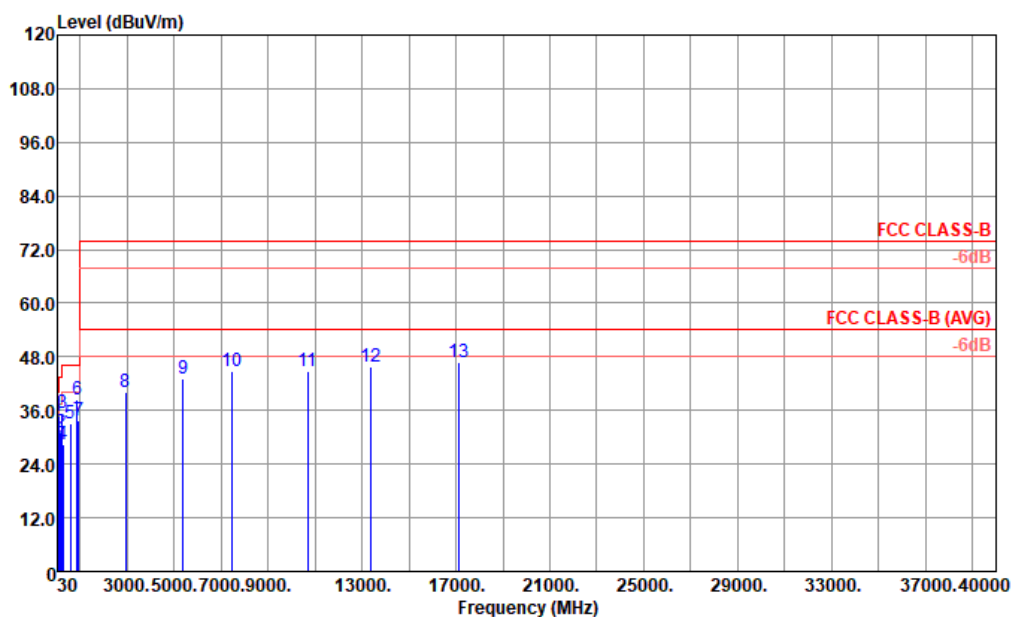
For radiated emissions above 1GHz





## 3.2.5. Test Result of Radiated Emission

|                 |                                                     |                     |            |
|-----------------|-----------------------------------------------------|---------------------|------------|
| Test Engineer : | Yoke Si                                             | Temperature :       | 21~22°C    |
|                 |                                                     | Relative Humidity : | 41~42%     |
| Test Distance : | 3m                                                  | Polarization :      | Horizontal |
| Remark :        | #9 is system simulator signal which can be ignored. |                     |            |

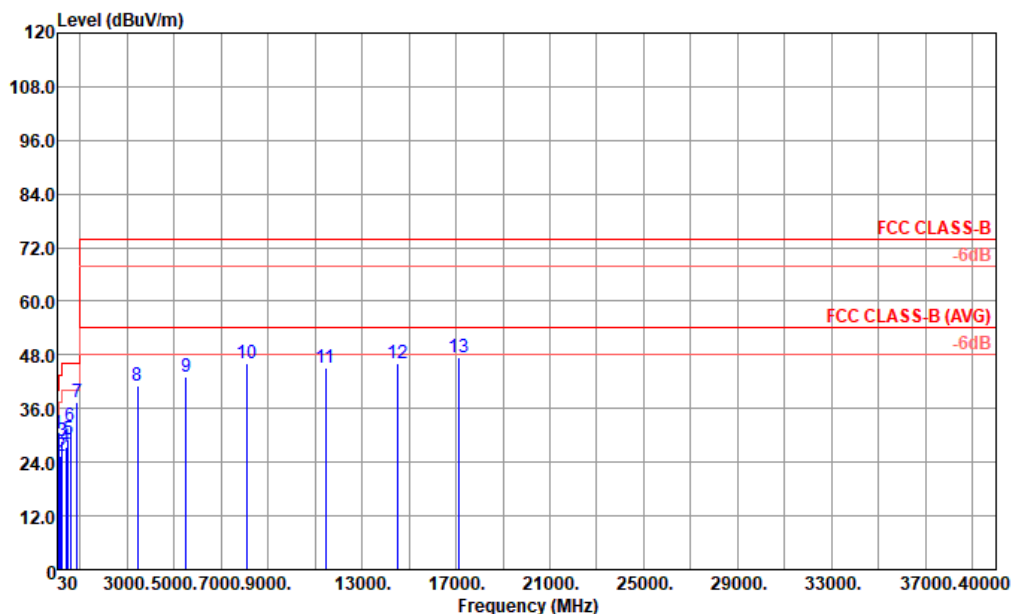


Site : 03CH02-KS  
Condition : FCC CLASS-B 3m LF 6111D SN44483 HORIZONTAL

|    | Freq      | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark |
|----|-----------|--------|--------|--------|-------------|-------|--------|-------|-------|--------|
|    | MHz       | dBuV/m | Limit  | Line   | Level       | Loss  | Factor | cm    | deg   |        |
|    |           |        | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    |       |        |
| 1  | 62.010    | 34.86  | -5.14  | 40.00  | 53.84       | 12.02 | 1.10   | 32.10 | 100   | 56 QP  |
| 2  | 177.440   | 30.94  | -12.56 | 43.50  | 45.84       | 15.26 | 1.94   | 32.10 | ---   | Peak   |
| 3  | 239.520   | 35.41  | -10.59 | 46.00  | 48.00       | 17.50 | 2.09   | 32.18 | ---   | Peak   |
| 4  | 263.770   | 28.55  | -17.45 | 46.00  | 38.37       | 20.13 | 2.22   | 32.17 | ---   | Peak   |
| 5  | 580.960   | 33.00  |        |        | 36.18       | 25.65 | 3.47   | 32.30 | ---   | Peak   |
| 6  | 881.660   | 38.32  | -7.68  | 46.00  | 37.02       | 29.17 | 4.40   | 32.27 | ---   | Peak   |
| 7  | 928.220   | 33.65  | -12.35 | 46.00  | 31.13       | 30.18 | 4.54   | 32.20 | ---   | Peak   |
| 8  | 2944.000  | 40.20  | -33.80 | 74.00  | 58.88       | 32.93 | 8.26   | 59.87 | ---   | Peak   |
| 9  | 5384.000  | 43.13  | -30.87 | 74.00  | 56.58       | 35.16 | 11.48  | 60.09 | ---   | Peak   |
| 10 | 7496.000  | 44.92  | -29.08 | 74.00  | 55.35       | 36.50 | 13.62  | 60.55 | ---   | Peak   |
| 11 | 10674.000 | 44.90  | -29.10 | 74.00  | 51.12       | 37.99 | 16.40  | 60.61 | ---   | Peak   |
| 12 | 13365.000 | 45.76  | -28.24 | 74.00  | 48.93       | 38.47 | 18.47  | 60.11 | ---   | Peak   |
| 13 | 17118.000 | 46.80  | -27.20 | 74.00  | 43.35       | 40.44 | 21.07  | 58.06 | ---   | Peak   |



|                 |                                                     |                     |          |
|-----------------|-----------------------------------------------------|---------------------|----------|
| Test Engineer : | Yoke Si                                             | Temperature :       | 21~22°C  |
|                 |                                                     | Relative Humidity : | 41~42%   |
| Test Distance : | 3m                                                  | Polarization :      | Vertical |
| Remark :        | #9 is system simulator signal which can be ignored. |                     |          |



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  | 62.010    | 30.34  | -9.66         | 40.00         | 49.32                       | 12.02         | 1.10             | 32.10 | ---   | ---    | Peak |
| 2  | 168.710   | 25.31  | -18.19        | 43.50         | 39.74                       | 15.78         | 1.89             | 32.10 | ---   | ---    | Peak |
| 3  | 223.030   | 28.78  | -17.22        | 46.00         | 43.21                       | 15.63         | 2.09             | 32.15 | ---   | ---    | Peak |
| 4  | 399.570   | 27.44  | -18.56        | 46.00         | 34.84                       | 21.90         | 3.00             | 32.30 | ---   | ---    | Peak |
| 5  | 480.080   | 29.13  | -16.87        | 46.00         | 34.67                       | 23.64         | 3.14             | 32.32 | ---   | ---    | Peak |
| 6  | 580.960   | 32.04  | -13.96        | 46.00         | 35.22                       | 25.65         | 3.47             | 32.30 | ---   | ---    | Peak |
| 7  | 881.660   | 37.57  |               |               | 36.27                       | 29.17         | 4.40             | 32.27 | ---   | ---    | Peak |
| 8  | 3440.000  | 41.01  | -32.99        | 74.00         | 58.51                       | 33.48         | 8.97             | 59.95 | ---   | ---    | Peak |
| 9  | 5520.000  | 42.98  | -31.02        | 74.00         | 56.34                       | 35.29         | 11.47            | 60.12 | ---   | ---    | Peak |
| 10 | 8088.000  | 46.03  | -27.97        | 74.00         | 56.19                       | 36.73         | 13.80            | 60.69 | ---   | ---    | Peak |
| 11 | 11439.000 | 44.96  | -29.04        | 74.00         | 49.81                       | 38.55         | 17.04            | 60.44 | ---   | ---    | Peak |
| 12 | 14517.000 | 46.08  | -27.92        | 74.00         | 47.95                       | 38.91         | 19.25            | 60.03 | ---   | ---    | Peak |
| 13 | 17127.000 | 47.36  | -26.64        | 74.00         | 43.86                       | 40.46         | 21.07            | 58.03 | ---   | ---    | 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    | Nov. 30, 2021 | Apr. 20, 2022 | Conduction (CO01-KS)  |
| AC LISN<br>(for auxiliary equipment) | MessTec      | AN3016     | 060103       | 9kHz~30MHz                 | Oct. 14, 2021    | Nov. 30, 2021 | Oct. 13, 2022 | Conduction (CO01-KS)  |
| AC LISN                              | MessTec      | AN3016     | 060105       | 9kHz~30MHz                 | Apr. 13, 2021    | Nov. 30, 2021 | Apr. 12, 2022 | Conduction (CO01-KS)  |
| AC Power Source                      | Chroma       | 61602      | ABP000000811 | AC 0V~300V,<br>45Hz~1000Hz | Oct. 14, 2021    | Nov. 30, 2021 | Oct. 13, 2022 | Conduction (CO01-KS)  |
| EMI Test Receiver                    | R&S          | ESR7       | 101403       | 9kHz~7GHz;<br>Max 30dBm    | Oct. 16, 2021    | Dec. 03, 2021 | Oct. 15, 2022 | Radiation (03CH02-KS) |
| EXA Spectrum Analyzer                | Keysight     | N9010A     | MY55370528   | 10Hz~44G,MAX<br>X 30dB     | Oct. 16, 2021    | Dec. 03, 2021 | Oct. 15, 2022 | Radiation (03CH02-KS) |
| Bilog Antenna                        | TeseQ        | CBL6111D   | 44483        | 30MHz~1GHz                 | Jan. 26, 2021    | Dec. 03, 2021 | Jan. 25, 2022 | Radiation (03CH02-KS) |
| Double Ridge Horn Antenna            | ETS-Lindgren | 3117       | 75957        | 1GHz~18GHz                 | Oct. 30, 2021    | Dec. 03, 2021 | Oct. 29, 2022 | Radiation (03CH02-KS) |
| SHF-EHF Horn                         | Com-power    | AH-840     | 101115       | 18GHz~40GHz                | Nov. 05, 2021    | Dec. 03, 2021 | Nov. 04, 2022 | Radiation (03CH02-KS) |
| Amplifier                            | MITEQ        | EM18G40GGA | 060728       | 18~40GHz                   | Jan. 06, 2021    | Dec. 03, 2021 | Jan. 05, 2022 | Radiation (03CH02-KS) |
| Amplifier                            | SONOMA       | 310N       | 187289       | 9KHz~1GHz                  | Jan. 06, 2021    | Dec. 03, 2021 | Jan. 05, 2022 | Radiation (03CH02-KS) |
| Amplifier                            | Keysight     | 83017A     | MY53270316   | 500MHz~26.5GHz             | Oct. 16, 2021    | Dec. 03, 2021 | Oct. 15, 2022 | Radiation (03CH02-KS) |
| AC Power Source                      | Chroma       | 61601      | 616010002473 | N/A                        | NCR              | Dec. 03, 2021 | NCR           | Radiation (03CH02-KS) |
| Turn Table                           | MF           | MF7802     | N/A          | 0~360 degree               | NCR              | Dec. 03, 2021 | NCR           | Radiation (03CH02-KS) |
| Antenna Mast                         | MF           | MF7802     | N/A          | 1 m~4 m                    | NCR              | Dec. 03, 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 of 95% ( $U = 2Uc(y)$ ) | 2.9dB |
|-------------------------------------------------------------------------|-------|

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

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

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

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

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

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.1 dB |
|-------------------------------------------------------------------------|--------|