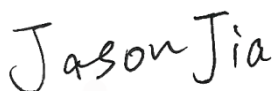


# FCC Test Report

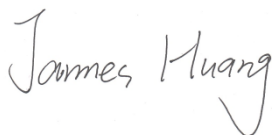
APPLICANT : ZTE CORPORATION  
EQUIPMENT : LTE/WCDMA/GSM (GPRS) Multi-Mode  
Digital Mobile Phone  
BRAND NAME : ZTE  
MODEL NAME : Z6530M  
FCC ID : SRQ-Z6530M  
STANDARD : 47 CFR Part 15 Subpart B  
CLASSIFICATION : Certification

The product was received on May 16, 2019 and testing was completed on May 31, 2019. 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: James Huang / Manager



**Sporton International (Kunshan) Inc.**

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



## TABLE OF CONTENTS

|                                                               |    |
|---------------------------------------------------------------|----|
| REVISION HISTORY .....                                        | 3  |
| SUMMARY OF TEST RESULT .....                                  | 4  |
| 1. GENERAL DESCRIPTION .....                                  | 5  |
| 1.1. Applicant.....                                           | 5  |
| 1.2. Product Feature of Equipment Under Test .....            | 5  |
| 1.3. Product Specification of Equipment Under Test .....      | 6  |
| 1.4. Modification of EUT .....                                | 7  |
| 1.5. Test Location .....                                      | 7  |
| 1.6. Applicable Standards .....                               | 7  |
| 2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST .....           | 8  |
| 2.1. Test Mode .....                                          | 8  |
| 2.2. Connection Diagram of Test System .....                  | 10 |
| 2.3. Support Unit used in test configuration and system ..... | 11 |
| 2.4. EUT Operation Test Setup .....                           | 12 |
| 3. TEST RESULT .....                                          | 13 |
| 3.1. Test of AC Conducted Emission Measurement .....          | 13 |
| 3.2. Test of Radiated Emission Measurement .....              | 17 |
| 4. LIST OF MEASURING EQUIPMENT .....                          | 21 |
| 5. UNCERTAINTY OF EVALUATION .....                            | 22 |
| APPENDIX A. SETUP PHOTOGRAPHS                                 |    |



## REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE   |
|------------|---------|-------------------------|---------------|
| FC951606   | Rev. 01 | Initial issue of report | Jul. 22, 2019 |
|            |         |                         |               |
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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>4.96 dB at<br>0.153 MHz  |
| 3.2            | 15.109   | Radiated Emission     | < 15.109 limits | PASS   | Under limit<br>7.59 dB at<br>42.610 MHz |



## 1. General Description

### 1.1. Applicant

**ZTE CORPORATION**

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

### 1.2. Product Feature of Equipment Under Test

| Product Feature                 |                                                                                                                                                                         |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment                       | LTE/WCDMA/GSM (GPRS) Multi-Mode Digital Mobile Phone                                                                                                                    |
| Brand Name                      | ZTE                                                                                                                                                                     |
| Model Name                      | Z6530M                                                                                                                                                                  |
| FCC ID                          | SRQ-Z6530M                                                                                                                                                              |
| EUT supports Radios application | GSMWCDMA/LTE/NFC<br>WLAN 2.4GHz 802.11b/g/n HT20/HT40<br>WLAN 5Ghz 802.11n H20/H40<br>WLAN 5GHz 802.11ac VHT20/VHT40/VHT80<br>Bluetooth BR/EDR/LE<br>FM Receiver / GNSS |
| IMEI Code                       | Conduction: 861884040024809<br>Radiation: 861884040024809                                                                                                               |
| HW Version                      | Z6530MHW1.0                                                                                                                                                             |
| SW Version                      | Z6530MV1.0.0B11                                                                                                                                                         |
| 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.

### 1.3. Product Specification of Equipment Under Test

| Standards-related Product Specification |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tx Frequency</b>                     | GSM850: 824.2 MHz ~ 848.8 MHz<br>GSM1900: 1850.2 MHz ~ 1909.8MHz<br>WCDMA Band V: 826.4 MHz ~ 846.6 MHz<br>WCDMA Band IV : 1712.4 MHz ~ 1752.6 MHz<br>WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz<br>LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz<br>LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz<br>LTE Band 5 : 824.7 MHz ~ 848.3 MHz<br>LTE Band 12 : 699.7 MHz ~ 715.3 MHz<br>LTE Band 13 : 779.5 MHz ~ 784.5 MHz<br>LTE Band 66 : 1710.7 MHz ~ 1779.3 MHz<br>802.11b/g/n: 2412 MHz ~ 2462 MHz<br>802.11n/ac: 5180 MHz ~ 5240 MHz;<br>5745 MHz ~ 5825 MHz<br>Bluetooth: 2402 MHz ~ 2480 MHz<br>NFC : 13.56 MHz                               |
| <b>Rx Frequency</b>                     | GSM850: 869.2 MHz ~ 893.8 MHz<br>GSM1900: 1930.2 MHz ~ 1989.8 MHz<br>WCDMA Band V: 871.4 MHz ~ 891.6 MHz<br>WCDMA Band IV : 2112.4 MHz ~ 2152.6 MHz<br>WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz<br>LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz<br>LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz<br>LTE Band 5 : 869.7 MHz ~ 893.3 MHz<br>LTE Band 12 : 729.7 MHz ~ 745.3 MHz<br>LTE Band 13 : 748.5 MHz ~ 753.5 MHz<br>LTE Band 66 : 2110.7 MHz~ 2199.3 MHz<br>802.11b/g/n: 2412 MHz ~ 2462 MHz<br>802.11n/ac: 5180 MHz ~ 5240 MHz;<br>5745 MHz ~ 5825 MHz<br>Bluetooth: 2402 MHz ~ 2480 MHz<br>GNSS : 1559 MHz ~ 1610 MHz<br>NFC : 13.56 MHz |
| <b>Antenna Type</b>                     | WWAN : IFA Antenna<br>WLAN : IFA Antenna<br>Bluetooth : IFA Antenna<br>GNSS: IFA Antenna<br>NFC : Loop Antenna                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Type of Modulation</b>               | GSM: GMSK<br>GPRS: GMSK<br>EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK<br>WCDMA : BPSK (Uplink)<br>HSDPA/DC-HSDPA : QPSK (Uplink)<br>HSUPA : QPSK (Uplink)<br>HSPA+ : 16QAM (Uplink)<br>DC-HSDPA : 64QAM<br>LTE: QPSK / 16QAM / 64QAM<br>802.11b : DSSS (DBPSK / DQPSK / CCK)<br>802.11g/n/ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)                                                                                                                                                                                                                                                                                       |



|  |                                                                                                                                                |
|--|------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Bluetooth LE : GFSK<br>Bluetooth (1Mbps) : GFSK<br>Bluetooth (2Mbps) : $\pi/4$ -DQPSK<br>Bluetooth (3Mbps) : 8-DPSK<br>GNSS : BPSK<br>NFC: ASK |
|--|------------------------------------------------------------------------------------------------------------------------------------------------|

Note: GNSS = GLONASS + GPS

## 1.4. Modification of EUT

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

## 1.5. 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                                |

## 1.6. 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 fundamental frequency or to 40 GHz, whichever is lower).

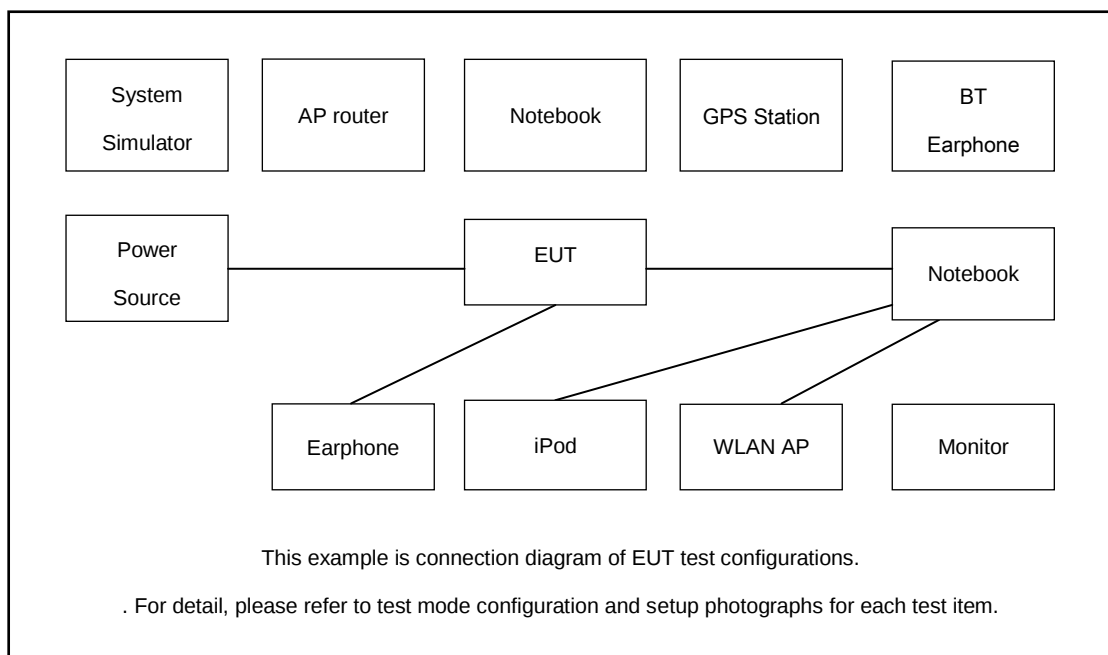
| Test Items            | Function Type                                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| AC Conducted Emission | Mode 1: GSM850 Rx(Middle) + Bluetooth Idle + WLAN Idle(2.4G) + Camera(Rear) + Earphone + USB Cable 1(Charging from Adapter 1)     |
|                       | Mode 2: PCS 1900 Rx + Bluetooth Idle + WLAN Idle(5G) + Camera(Front) + Earphone + USB Cable 2(Charging from Adapter 2)            |
|                       | Mode 3: WCDMA Band V Rx(Low) + Bluetooth Idle + WLAN Idle(2.4G) + MPEG4 + Battery 1 + USB Cable 2(Charging from Adapter 2)        |
|                       | Mode 4: LTE Band 12 Rx(High) + Bluetooth Idle + WLAN Idle(5G) + NFC On + Earphone + USB Cable 2(Charging from Adapter 2)          |
|                       | Mode 5: LTE Band 13 Rx(High) + Bluetooth Idle + WLAN Idle(2.4G) + FM Rx(98MHz) + Battery 1 + USB Cable 2(Charging from Adapter 2) |
|                       | Mode 6: LTE Band 2 Rx(Low) + Bluetooth Idle + WLAN Idle(5G) + GNSS Rx + USB Cable 1(Data Link with Notebook)                      |
|                       | Mode 7: LTE Band 4 Rx + Bluetooth Idle + WLAN Idle(2.4G) + GNSS Rx + USB Cable 2(Data Link with Notebook)                         |
| Radiated Emissions    | Mode 1: GSM850 Rx(Middle) + Bluetooth Idle + WLAN Idle(2.4G) + Camera(Rear) + Earphone + USB Cable 1(Charging from Adapter 1)     |
|                       | Mode 2: PCS 1900 Rx + Bluetooth Idle + WLAN Idle(5G) + Camera(Front) + Earphone + USB Cable 2(Charging from Adapter 2)            |
|                       | Mode 3: WCDMA Band V Rx(Low) + Bluetooth Idle + WLAN Idle(2.4G) + MPEG4 + Battery 1 + USB Cable 2(Charging from Adapter 2)        |
|                       | Mode 4: LTE Band 12 Rx(High) + Bluetooth Idle + WLAN Idle(5G) + NFC On + Earphone + USB Cable 2(Charging from Adapter 2)          |
|                       | Mode 5: LTE Band 13 Rx(High) + Bluetooth Idle + WLAN Idle(2.4G) + FM Rx(88MHz) + Battery 1 + USB Cable 2(Charging from Adapter 2) |
|                       | Mode 6: LTE Band 2 Rx(Low) + Bluetooth Idle + WLAN Idle(5G) + GNSS Rx + USB Cable 1(Data Link with Notebook)                      |
|                       | Mode 7: LTE Band 4 Rx + Bluetooth Idle + WLAN Idle(2.4G) + GNSS Rx + USB Cable 2(Data Link with Notebook)                         |



**Remark:**

1. The worst case of AC is mode 2; only the test data of this mode is reported.
2. The worst case of RE is mode 4; only the test data of this mode is reported.
3. Data Link with Notebook means data application transferred mode between EUT and Notebook.
4. Pre-scanned Low/Middle/High channel for GSM850/WCDMA Band V/LTE Band 5/12/13, FM Rx, the worst channel was recorded in this report.

## 2.2.Connection Diagram of Test System



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

| Item | Equipment          | Trade Name | Model Name | FCC ID         | Data Cable     | Power Cord                                                 |
|------|--------------------|------------|------------|----------------|----------------|------------------------------------------------------------|
| 1.   | System Simulator   | R&S        | CMU 200    | N/A            | N/A            | Unshielded, 1.8 m                                          |
| 2.   | LTE Base Station   | Anritus    | MT8820C    | N/A            | N/A            | Unshielded,1.8m                                            |
| 3.   | Signal Generator   | R&S        | SMBV100A   | 258305         | N/A            | Unshielded,1.8m                                            |
| 4.   | Signal Generator   | R&S        | GSS7000    | N/A            | N/A            | Unshielded,1.8m                                            |
| 5.   | WLAN AP            | LINKSYS    | WRT600N    | Q87-WRT600NV11 | N/A            | Unshielded, 1.8 m                                          |
| 6.   | WLAN AP            | ASUS       | AC66U      | N/A            | N/A            | Unshielded,1.8m                                            |
| 7.   | WLAN AP            | D-link     | DIR-855    | KA2DIR855A2    | N/A            | Unshielded,1.8m                                            |
| 8.   | Notebook           | Lenovo     | G480       | PRC4           | N/A            | AC I/P:<br>Unshielded, 1.8 m<br>DC O/P:<br>Shielded, 1.8 m |
| 9.   | Notebook           | DELL       | MT320      | N/A            | N/A            | AC I/P:<br>Unshielded, 1.8 m<br>DC O/P:<br>Shielded, 1.8 m |
| 10.  | Bluetooth Earphone | Lenovo     | LBH308     | N/A            | N/A            | N/A                                                        |
| 11.  | Bluetooth Earphone | Xiaomi     | LYEJ02LM   | N/A            | N/A            | N/A                                                        |
| 12.  | Earphone           | Lenovo     | LH102      | N/A            | N/A            | Unshielded,1.2m                                            |
| 13.  | Earphone           | Lenovo     | N/A        | N/A            | N/A            | N/A                                                        |
| 14.  | iPod               | Apple      | A1199      | Fcc DoC        | Shielded, 1.2m | N/A                                                        |
| 15.  | SD Card            | Kingston   | SDC4/4GB   | N/A            | N/A            | N/A                                                        |
| 16.  | SD Card            | SanDisk    | Uitra      | N/A            | N/A            | N/A                                                        |

## **2.4. EUT Operation Test Setup**

The EUT was in GSM or WCDMA or LTE 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 GNSS function to make the EUT receive continuous signals from GNSS station.
3. Turn on MPEG4 function.
4. Turn on camera to capture images.
5. Turn on FM function to make the EUT receive continuous signals from FM Generator.
6. Turn on NFC 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

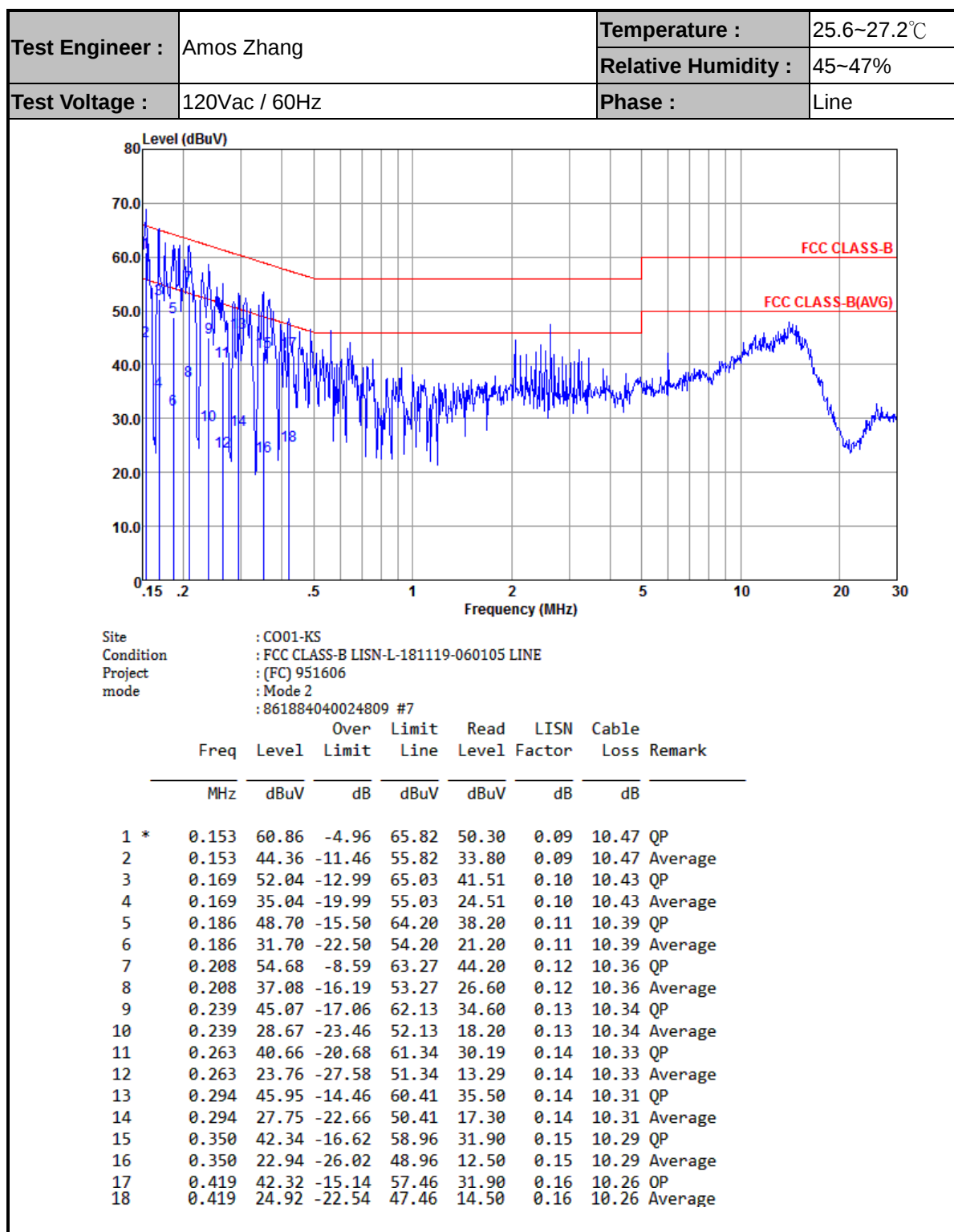
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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



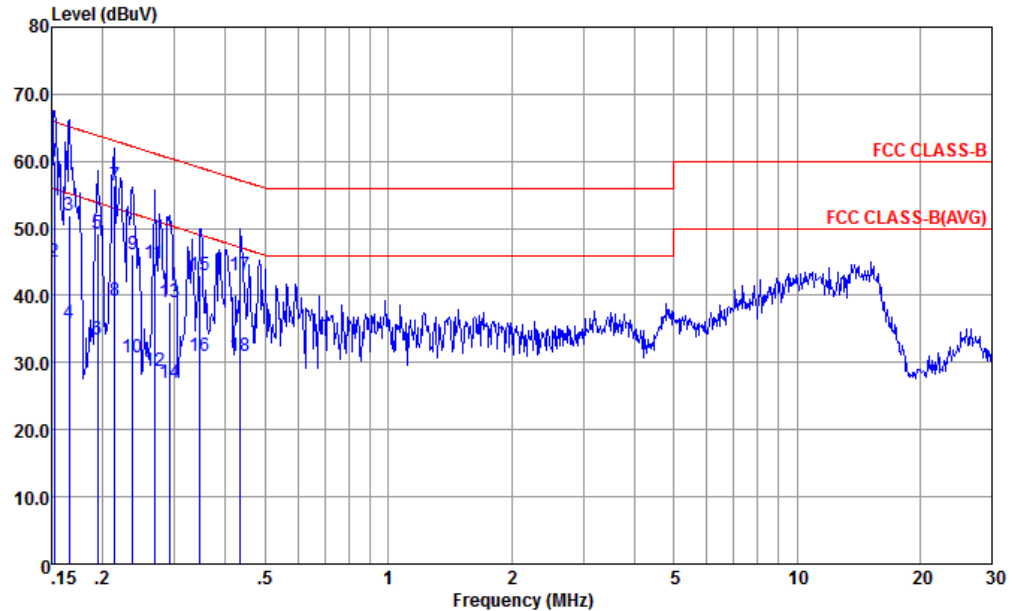


## 3.1.5 Test Result of AC Conducted Emission





|                        |               |                            |            |
|------------------------|---------------|----------------------------|------------|
| <b>Test Engineer :</b> | Amos Zhang    | <b>Temperature :</b>       | 25.6~27.2℃ |
|                        |               | <b>Relative Humidity :</b> | 45~47%     |
| <b>Test Voltage :</b>  | 120Vac / 60Hz | <b>Phase :</b>             | Neutral    |



Site : CO01-KS  
Condition : FCC CLASS-B LISN-N-181119-060105 NEUTRAL  
Project : (FC) 951606  
mode : Mode 2  
: 861884040024809 #7

|     | Freq  | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark  |
|-----|-------|-------|------------|------------|------------|-------------|------------|---------|
|     | MHz   | dBuV  | dB         | dBuV       | dBuV       | dB          | dB         |         |
| 1 * | 0.152 | 59.85 | -6.02      | 65.87      | 49.20      | 0.18        | 10.47      | QP      |
| 2   | 0.152 | 44.95 | -10.92     | 55.87      | 34.30      | 0.18        | 10.47      | Average |
| 3   | 0.166 | 51.82 | -13.34     | 65.16      | 41.20      | 0.18        | 10.44      | QP      |
| 4   | 0.166 | 35.82 | -19.34     | 55.16      | 25.20      | 0.18        | 10.44      | Average |
| 5   | 0.194 | 49.15 | -14.69     | 63.84      | 38.61      | 0.17        | 10.37      | QP      |
| 6   | 0.194 | 33.45 | -20.39     | 53.84      | 22.91      | 0.17        | 10.37      | Average |
| 7   | 0.214 | 56.33 | -6.72      | 63.05      | 45.81      | 0.17        | 10.35      | QP      |
| 8   | 0.214 | 39.13 | -13.92     | 53.05      | 28.61      | 0.17        | 10.35      | Average |
| 9   | 0.237 | 46.11 | -16.11     | 62.22      | 35.60      | 0.17        | 10.34      | QP      |
| 10  | 0.237 | 30.71 | -21.51     | 52.22      | 20.20      | 0.17        | 10.34      | Average |
| 11  | 0.267 | 44.69 | -16.51     | 61.20      | 34.21      | 0.16        | 10.32      | QP      |
| 12  | 0.267 | 28.69 | -22.51     | 51.20      | 18.21      | 0.16        | 10.32      | Average |
| 13  | 0.292 | 39.07 | -21.39     | 60.46      | 28.60      | 0.16        | 10.31      | QP      |
| 14  | 0.292 | 27.07 | -23.39     | 50.46      | 16.60      | 0.16        | 10.31      | Average |
| 15  | 0.346 | 43.04 | -16.01     | 59.05      | 32.59      | 0.16        | 10.29      | QP      |
| 16  | 0.346 | 31.04 | -18.01     | 49.05      | 20.59      | 0.16        | 10.29      | Average |
| 17  | 0.435 | 43.01 | -14.14     | 57.15      | 32.61      | 0.15        | 10.25      | QP      |
| 18  | 0.435 | 30.91 | -16.24     | 47.15      | 20.51      | 0.15        | 10.25      | Average |

## 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

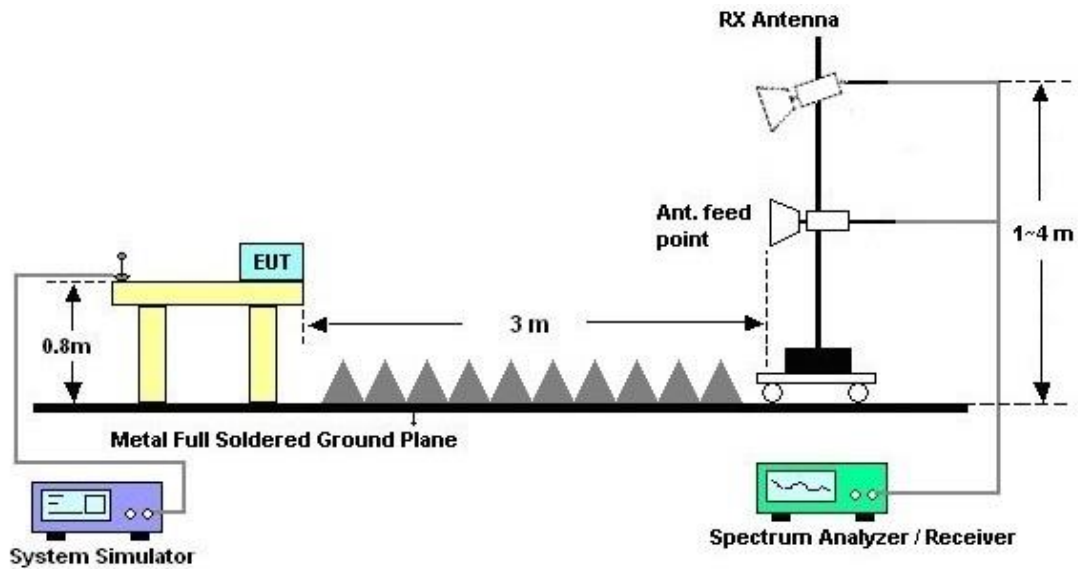
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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 - Preamplifier Factor = Level

### 3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz

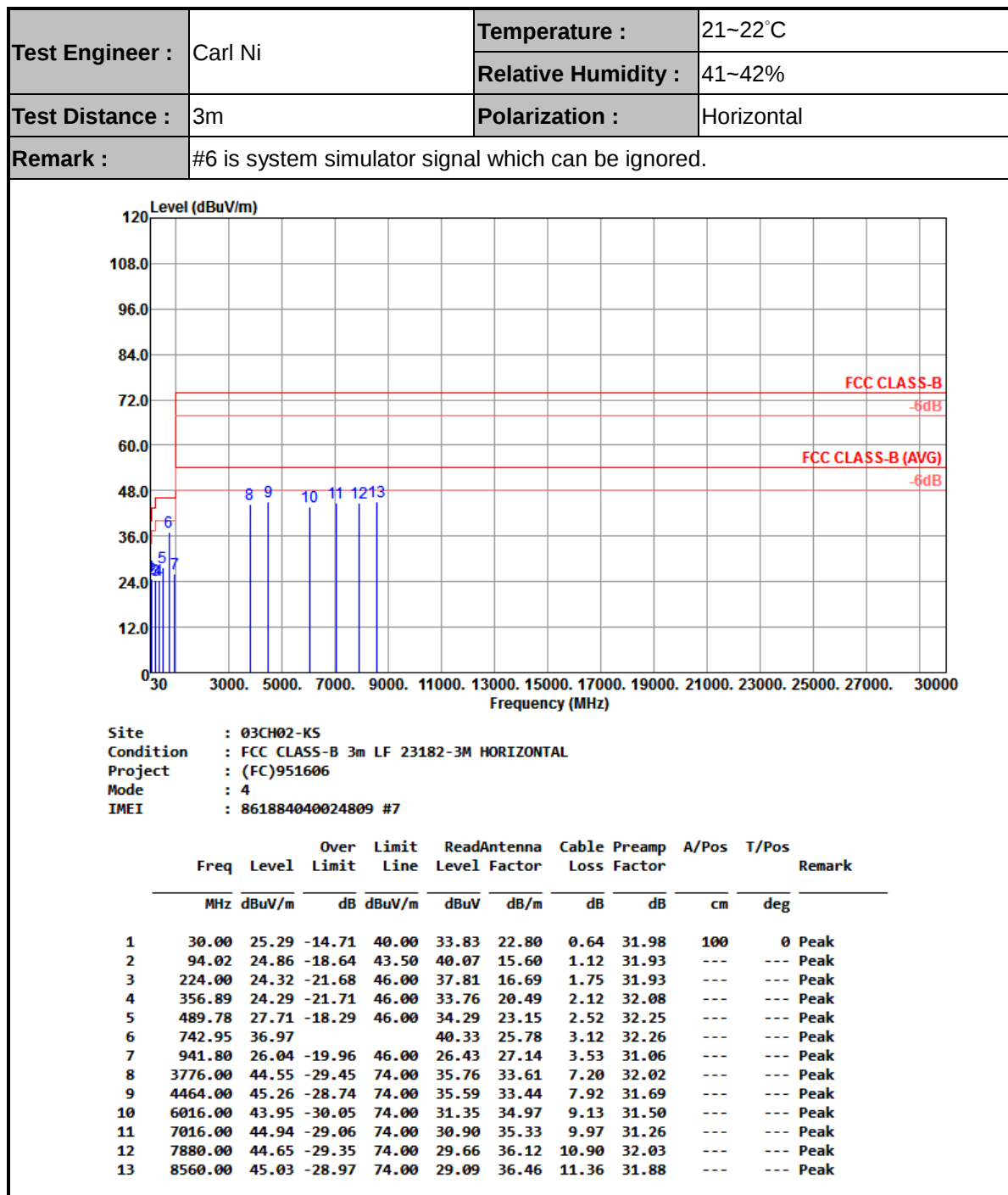


For radiated emissions above 1GHz



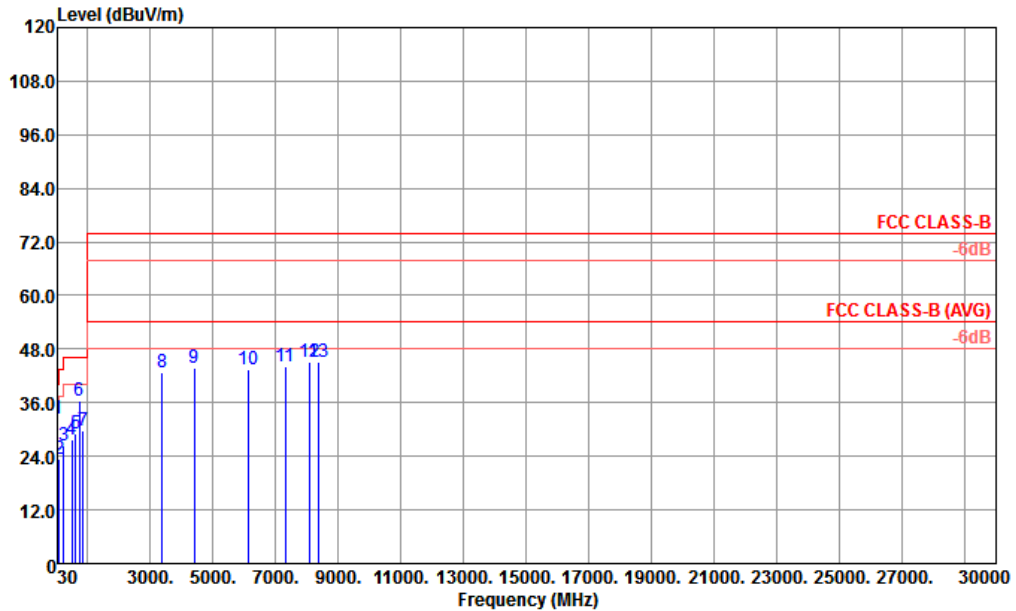


## 3.2.5. Test Result of Radiated Emission





|                 |                                                     |                     |          |
|-----------------|-----------------------------------------------------|---------------------|----------|
| Test Engineer : | Carl Ni                                             | Temperature :       | 21~22°C  |
|                 |                                                     | Relative Humidity : | 41~42%   |
| Test Distance : | 3m                                                  | Polarization :      | Vertical |
| Remark :        | #6 is system simulator signal which can be ignored. |                     |          |



Site : 03CH02-KS  
 Condition : FCC CLASS-B 3m LF 23182-3M VERTICAL  
 Project : (FC)951606  
 Mode : 4  
 IMEI : 861884040024809 #7

|    | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark   |
|----|---------|--------|--------|--------|-------------|-------|--------|-------|-------|----------|
|    | MHz     | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg      |
| 1  | 42.61   | 32.41  | -7.59  | 40.00  | 47.08       | 16.54 | 0.74   | 31.95 | 100   | 0 Peak   |
| 2  | 95.96   | 23.26  | -20.24 | 43.50  | 38.06       | 16.00 | 1.13   | 31.93 | ---   | --- Peak |
| 3  | 224.00  | 26.35  | -19.65 | 46.00  | 39.84       | 16.69 | 1.75   | 31.93 | ---   | --- Peak |
| 4  | 489.78  | 27.80  | -18.20 | 46.00  | 34.38       | 23.15 | 2.52   | 32.25 | ---   | --- Peak |
| 5  | 612.00  | 29.04  | -16.96 | 46.00  | 33.95       | 24.72 | 2.77   | 32.40 | ---   | --- Peak |
| 6  | 741.98  | 36.50  |        |        | 39.89       | 25.76 | 3.12   | 32.27 | ---   | --- Peak |
| 7  | 857.41  | 29.82  | -16.18 | 46.00  | 31.64       | 26.55 | 3.37   | 31.74 | ---   | --- Peak |
| 8  | 3384.00 | 42.68  | -31.32 | 74.00  | 35.58       | 32.44 | 6.80   | 32.14 | ---   | --- Peak |
| 9  | 4400.00 | 43.69  | -30.31 | 74.00  | 34.01       | 33.53 | 7.90   | 31.75 | ---   | --- Peak |
| 10 | 6120.00 | 43.39  | -30.61 | 74.00  | 30.61       | 35.02 | 9.28   | 31.52 | ---   | --- Peak |
| 11 | 7304.00 | 44.16  | -29.84 | 74.00  | 29.85       | 35.86 | 10.15  | 31.70 | ---   | --- Peak |
| 12 | 8096.00 | 45.15  | -28.85 | 74.00  | 29.99       | 36.17 | 11.02  | 32.03 | ---   | --- Peak |
| 13 | 8392.00 | 45.25  | -28.75 | 74.00  | 29.76       | 36.42 | 11.04  | 31.97 | ---   | --- Peak |



## 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. 16, 2019    | May 31, 2019 | Apr. 15, 2020 | Conduction (CO01-KS)  |
| AC LISN                              | MessTec      | AN3016            | 060103       | 9kHz~30MHz                 | Oct. 12, 2018    | May 31, 2019 | Oct. 11, 2019 | Conduction (CO01-KS)  |
| AC LISN<br>(for auxiliary equipment) | MessTec      | AN3016            | 060105       | 9kHz~30MHz                 | Nov. 19, 2018    | May 31, 2019 | Nov. 18, 2019 | Conduction (CO01-KS)  |
| AC Power Source                      | Chroma       | 61602             | ABP000000811 | AC 0V~300V,<br>45Hz~1000Hz | Oct. 12, 2018    | May 31, 2019 | Oct. 11, 2019 | Conduction (CO01-KS)  |
| EMI Test Receiver                    | R&S          | ESR7              | 101403       | 9kHz~7GHz;Ma<br>x 30dBm    | Aug. 06, 2018    | May 30, 2019 | Aug. 05, 2019 | Radiation (03CH02-KS) |
| EXA Spectrum Analyzer                | Keysight     | N9010A            | MY55150244   | 10Hz~44G,MAX<br>30dB       | Apr. 16, 2019    | May 30, 2019 | Apr. 15, 2020 | Radiation (03CH02-KS) |
| Bilog Antenna                        | TeseQ        | CBL6112D          | 23182        | 30MHz~2GHz                 | Dec. 29, 2018    | May 30, 2019 | Dec. 28, 2019 | Radiation (03CH02-KS) |
| Double Ridge Horn Antenna            | ETS-Lindgren | 3117              | 75959        | 1GHz~18GHz                 | Jan. 27, 2019    | May 30, 2019 | Jan. 26, 2020 | Radiation (03CH02-KS) |
| SHF-EHF Horn                         | Com-power    | AH-840            | 101070       | 18GHz~40GHz                | Jan. 05, 2019    | May 30, 2019 | Jan. 04, 2020 | Radiation (03CH02-KS) |
| Amplifier                            | MITEQ        | TTA1840-35-H<br>G | 1887435      | 18~40GHz                   | Jan. 14, 2019    | May 30, 2019 | Jan. 13, 2020 | Radiation (03CH02-KS) |
| Amplifier                            | SONOMA       | 310N              | 187289       | 9KHz~1GHz                  | Aug. 06, 2018    | May 30, 2019 | Aug. 05, 2019 | Radiation (03CH02-KS) |
| Amplifier                            | Keysight     | 83017A            | MY57280106   | 500MHz~26.5G<br>Hz         | Apr. 15, 2019    | May 30, 2019 | Apr. 14, 2020 | Radiation (03CH02-KS) |
| AC Power Source                      | Chroma       | 61601             | 616010002473 | N/A                        | NCR              | May 30, 2019 | NCR           | Radiation (03CH02-KS) |
| Turn Table                           | MF           | MF7802            | N/A          | 0~360 degree               | NCR              | May 30, 2019 | NCR           | Radiation (03CH02-KS) |
| Antenna Mast                         | MF           | MF7802            | N/A          | 1 m~4 m                    | NCR              | May 30, 2019 | 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% ( $U = 2Uc(y)$ ) | 5.1dB |
|-------------------------------------------------------------------------|-------|